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April 15, 2025

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New York Remediation Branch
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290 Broadway, 20th Floor
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VIA ELECTRONIC MAIL

Re: Twelve-Month Performance Monitoring Report, Operable Unit 3
Alcas Cutlery Corporation Site
Consent Decree No. II-CERCLA-10202, DJ# 90-11-3

Dear Ms. Wurtz:

Pursuant to Sections 4.5 and 7.3 of the Remedial Design/Remedial Action Statement of Work (SOW) for Operable Units Two (OU2) and Three (OU3), enclosed please find a copy of the Twelve-Month Performance Monitoring Report for OU3. Arconic appreciates the time and effort U.S. EPA Region II has put into this project. Should you have any questions concerning this submittal, please call me at 865-279-2942.

Sincerely,

Michael W. Worden

for

Robert A. Prezbindowski
Arconic Corporation

cc: Steven Moeller – NYDEC (email)
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TWELVE-MONTH PERFORMANCE MONITORING REPORT

OPERABLE UNIT 3
AT THE PARCEL B PROPERTY
IN THE ALCAS SOURCE AREA
OLEAN WELL FIELD SUPERFUND SITE
OLEAN, NEW YORK

Prepared For:

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APRIL 2025

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1.0 INTRODUCTION

The Remedial Action Work Plan (RAWP) for Operable Unit 3 (OU3) for groundwater contamination within the Alcas Source Area and updated supporting documents detail the selected remedy (enhanced anaerobic bioremediation [EAB]) as identified in the Record of Decision (ROD) and the design basis presented in the September 2018 revised Final Design (100% Submittal) Olean Well Field Superfund Site, Operable Unit 3 report as prepared by CDM Smith (OU3 100% Remedial Design [RD]). The location of OU3 (Site) is shown on Figure 1. The U.S. Environmental Protection Agency (U.S. EPA) Region II, in consultation with the New York State Department of Environmental Conservation (NYSDEC), approved the revised OU3 100% RD on September 25, 2018.

Pursuant to Sections VI of the Consent Decree and 7.3 of the Scope of Work (SOW), a RAWP was required to implement the required remedial action for the operable unit. The OU3 RAWP was developed as a general framework document which incorporated by reference all previously approved documents including the September 2018 OU3 100% RD.

The OU3 RAWP was provided to the U.S. EPA, Region II on June 3, 2019. On March 3, 2020, the U.S. EPA, Region II provided technical comments on the OU3 RAWP. In accordance with Section VI of the Consent Decree and Paragraph 6.6 of the Scope of Work, a written response to technical comments was provided to the U.S. EPA on April 29, 2020. A May 15, 2020 email from the U.S. EPA, Region II provided concurrence with the April 29, 2020 response to comments. A revised OU3 RAWP incorporating the April 29, 2020 response to technical comments and updating the schedule was submitted on June 16, 2020. On January 11, 2021, the U.S. EPA, Region II provided technical comments on the revised OU3 RAWP. A revised OU3 RAWP incorporating the response to the January 11, 2021 technical comments was submitted on February 9, 2021. The final OU3 RAWP was submitted on January 31, 2022. At the request of the U.S. EPA, Region II, a schedule update letter and final OU3 RAWP, as prepared by Civil & Environmental Consultants of New York, Inc. (CEC NY), was submitted on May 27, 2022. On June 8, 2022, the U.S. EPA, Region II approved the May 27, 2022, OU3 RAWP with revised schedule.

Implementation of the OU3 RAWP began in January 2023 with the initiation of the procurement process for selecting a constructor. Implementation of the OU3 RAWP consisted of the baseline sampling (May 2023), injection implementation (June 2023), bioaugmentation (August 2023) in the Southern Treatment Area, and performance monitoring. The results of the baseline sampling, injection implementation, bioaugmentation in the Southern Treatment Area, and three-month performance monitoring were presented in the Remedy Implementation and Performance Monitoring Report (RI-PMR) as prepared by CEC NY and submitted to the U.S. EPA on April 9, 2024.

Injection implementation in the Northern Treatment Area began in July 2024. The electron donor was injected at 22 locations (IP-21 through IP-42). Excess electron donor produced during manufacturing was injected near IP-16 and IP-17 in the Southern Treatment Area. The injection locations for both the Southern and Northern Treatment Areas are shown on Figure 2. As specified in the OU3 RAWP, a second Remedy Implementation Report will be submitted for the Northern Treatment Area following bioaugmentation.

This Twelve-Month Performance Monitoring Report was prepared in accordance with Section 1.1.3 of the OU3 RAWP to present details on monitoring activities conducted through August 2024, including the six-, nine-, and twelve-month performance monitoring events.

2.0 PERFORMANCE MONITORING

Performance monitoring samples were to be collected at locations and frequency detailed in Section 5.2 of the OU3 100% RD. The groundwater performance monitoring program was designed to track and monitor changes in the groundwater concentrations to assess performance of each remedial action. The six-month, nine-month, and twelve-month performance monitoring sampling events were conducted on February 12 and 14, 2024, May 28 and 30, 2024, and August 20 and 22, 2024, respectively.

2.1 SUMMARY OF FIELD ACTIVITIES

Groundwater sampling activities were performed at fifteen existing monitoring wells and one public water supply well. Groundwater sampling field activities included groundwater gauging, low-flow purging until field parameter stabilization was attained, followed by groundwater samples being collected and submitted for laboratory analysis.

2.1.1 Groundwater Level Measurements

During the performance monitoring events, depth to groundwater measurements (i.e., gauging) were collected from selected OU3 monitoring wells. The monitoring well locations are provided on Figure 2. Prior to gauging, the condition of each monitoring well was assessed, and the well cap was removed to allow for atmospheric pressure equilibration. The water level indicator was deployed in a slow, controlled manner so as to not disturb potential sediment within the monitoring well and groundwater level measurements were recorded to the nearest 0.01-foot on the groundwater sampling logs (Appendices A, C, and E, respectively). Groundwater gauging procedures were performed in accordance with the Field Sampling Plan (FSP), included as Appendix B of the OU3 RAWP.

2.1.2 Well Purging

Following gauging, field personnel mobilized to each well to perform groundwater purging and sample collection in accordance with the FSP. Due to the narrow diameter of the monitoring wells, purging was performed utilizing a peristaltic pump or bladder pump equipped with dedicated polyethylene tubing. The low-flow method was utilized for purging the monitoring wells targeting a pumping rate of 100 to 200 milliliters per minute (mL/min), with the following exceptions:

- RU-10 contained electron donor within the well screen and could not be sampled during the six-month performance monitoring event; and,
- RU-10 was purged dry and sampled within 24-hours during the nine-month performance monitoring event.

During purging activities, field measurements of water quality parameters were recorded, and are provided in Appendices A, C, and E. Stability criteria for three consecutive readings at three to five minute intervals were as follows:

- pH, ±0.1 standard units (SU);
- Specific conductivity, ±3% milliSiemens per centimeter (mS/cm);
- Dissolved oxygen (DO), ±10% for > 0.5- milligrams per liter (mg/L) or < 0.5mg/L;
- Turbidity, below 5 nephelometric turbidity units (NTUs) or ±10% for values above 5 NTUs;
- Temperature, ±3% degrees Celsius (°C); and
- Oxidation reduction potential (ORP), ±10 millivolts (mV).

Each of the performance monitoring wells were sampled according to the FSP, with the following exceptions:

- RU-10 contained electron donor within the well screen and could not be sampled during the six-month performance monitoring event;
- Turbidity did not stabilize within 10% or below 5 NTUS at CW-13A, RU-19, RU-20, RU-9, RU-28 during the six-month performance monitoring event;
- pH did not stabilize within 0.1 SU at RU-19 during the six-month performance monitoring event;
- Specific conductance did not stabilize within 3% at RU-20 and RU-21 during the six-month performance monitoring event.;
- ORP did not stabilize within 10 mV at UA-3 during the six-month performance monitoring event;

- RU-10 purged dry and sampled within 24-hours during the nine-month performance monitoring event;
- The target pumping rate was exceeded at RU-19 (230 mL/min) and RU-20 (375 mL/min) during the nine-month performance monitoring event;
- Turbidity did not stabilize within 10% or below 5 NTUS at RU-15 during the nine-month performance monitoring event; and
- Turbidity did not stabilize within 10% or below 5 NTUS at RU-11 during the twelve-month performance monitoring event.

Purge water was containerized in 55-gallon drums for off-site disposal.

2.1.3 Groundwater Sampling

A final reading of water quality parameters was recorded on the appropriate field form at the time of sample collection at each location to document conditions. Analysis of alkalinity using field test kits was completed at the time of sampling during the six-, nine-, and twelve-month performance monitoring events. Analysis of ferrous iron using field test kits was completed at the time of sampling during the twelve-month performance monitoring event. At each sample location, field personnel donned powder-free nitrile gloves when sample containers were handled and took care as to not touch the inside of the containers. Care was also taken to reduce the potential for sample aeration and avoid overfilling and diluting preservatives. Samples were collected after low-flow sample tubing had been disconnected from the flow-through cell and the pumping rate was maintained throughout sample collection. Samples collected for volatile organic compound analysis from wells purged and sampled with a peristaltic pump were collected using the "soda straw" method described in the FSP.

2.1.4 Preservation and Handling

Sample containers were labeled in accordance with the FSP. Filled and labeled groundwater sample containers were placed in a cooler in an upright position. Loose ice was placed around and among the groundwater sample containers to cool the samples to less than 6 ºC during shipment. The cooler was filled with additional packing material to secure the containers. Samples were labeled, packaged for shipment, placed on ice in coolers, and delivered to the lab

in Rochester, New York by courier. Chain-of-custody (COC) protocols were maintained during sample collection and transport to courier.

Upon receipt of the samples, the analytical laboratory signed “received by laboratory" on the COC. The laboratory recorded the condition and temperature of the samples upon receipt and identified discrepancies, if present, between the contents of the cooler and COC. The Laboratory Project Manager provided the designated CEC NY personnel with a copy of the COC, sample receipt summary form, and confirmed the analytical testing to be performed prior to processing.

2.1.5 Field Documentation

Field documentation was performed in accordance with the QAPP. The following types of field documentation were recorded:

- Daily field activities were recorded and maintained chronologically in the field book to document field activities, including sample collection, sample management, and observations. A copy of the relevant pages from the field book is provided in Appendices A, C, and E. Field forms, including Daily Tailgate Meeting Forms and Groundwater Monitoring Low-Flow Purge Record, are also provided in Appendices A, C, and E.
- COC and shipping documents were prepared as samples were collected. Copies of the COCs were retained following sample relinquishment prior to shipment. Quality control samples were documented on the COC, as well as in the field book.

2.1.6 Sample Analyses

Groundwater samples were submitted to the analytical laboratory designated in the FSP and the QAPP. Samples were analyzed for the following:

- Volatile Organic Compounds (VOCs) (tetrachloroethylene [PCE], trichloroethylene [TCE], cis-1,2 dichloroethylene [cis-1,2 DCE], trans-1,2 dichloroethylene [trans-1,2 DCE], and vinyl chloride [VC]) – Method 8260C;
- Dissolved Gasses (Methane, Ethane, and Ethene) – Method RSK-175;
- Volatile Fatty Acids (Acetate, Propionate, Butyrate) – Method ALS SOP HPLC;
- Chemical Oxygen Demand (COD) – Method 410.4;
- Sulfate – Method 300.0; and
- Dissolved Metals (Arsenic, Iron, and Manganese) – Method 6010C.

Sentinel monitoring wells CW-13 and CW-13A and water supply well WW-18M were sampled for VOCs, COD, and dissolved metals only. During the six-month performance monitoring event, the sentinel wells were inadvertently submitted for analysis of sulfate.

Equipment decontamination was performed for non-dedicated groundwater sampling equipment in contact with groundwater during sampling activities in accordance with the FSP. Decontamination was performed on the water level indicators, the water quality meters, bladder pumps, and the flow-through cells.

Deionized water and a phosphate-free laboratory detergent solution in a spray bottle were used to perform the decontamination steps. The process included rinsing the equipment in deionized water, spraying the phosphate-free laboratory detergent solution on the equipment, cleaning with soft bristled brushes with the solution, and rinsing a second time with deionized water. Decontamination was required between sampling locations. Decontamination water was containerized in a 55-gallon drum for off-site disposal.

2.2 DATA VALIDATION AND USABILITY

CEC NY performed a qualitative data review of the groundwater samples, quality control samples, and data package prepared by the laboratory to determine compliance against the DQO criteria established in the QAPP. Additionally, CEC NY reviewed the sample collection and handling documentation to ensure the data collected met the project objectives.

Sampling design was controlled by the FSP and approved by U.S. EPA prior to implementation. Quality control samples were collected as specified by the FSP. Field instruments were calibrated by CEC NY or by the equipment rental provider prior to use in the field. Sample collection was implemented according to the U.S. EPA, Region 4 Field Branches Quality System and Technical Procedures as specified in the QAPP. The tables and logs compiled by the field personnel and used as the basis for data interpretation were checked against the original field documentation prior to inclusion in the report. A copy of the field documentation for these samples are presented in Appendices A, C, and E. Samples were collected, properly preserved

when required, delivered via courier under a COC record, and received at ALS no more than four days after samples were collected and within the required temperature range. Hold times for the analytical methods were met. Based on the data review and validation evaluation, the data were considered to be sufficiently compliant and acceptable in accordance with review and validation protocols.

Quality assurance objectives for data included considerations for precision, accuracy, representativeness, completeness, and comparability. The data ranged from 94 to 100 percent complete with all complete data considered usable. Results of the data review, validation, and usability assessment are detailed in the Data Summary Reports provided in Appendices B, D, and F. The analytical results for these monitoring events are summarized in Section 3.0.

3.0 SUMMARY OF RESULTS

The six-, nine-, and twelve-month performance monitoring results were compared to the May 2023 baseline monitoring results to determine the effectiveness of the treatment and the potential of adverse impacts (e.g. increasing metals concentrations) from remedy implementation. The monitoring data are discussed in terms of electron donor distribution, redox conditions, biological parameters, and chlorinated compound degradation progress. Monitoring results discussed in the following subsections are grouped by location to evaluate the observed trends in various areas of the Site as follows:

- Upgradient Wells: Wells located upgradient of the southern half of the targeted treatment area include RU-8, and RU-15;
- Treatment Area Wells: Wells located within the targeted treatment area include RU-9, RU-10, RU-19, RU-20, RU-21, RU-27A, and RU-28;
- Downgradient Wells: Wells located immediately downgradient of the treatment area include RU-11, RU-16, UA-2, and UA-3; and
- Sentinel Wells: CW-13, CW-13A, and WW-18M.

Performance monitoring wells RU-9 and RU-28 are located within the Northern Treatment Area and were considered upgradient wells prior to the twelve-month performance monitoring event.

The validated laboratory analytical results and field readings for the performance monitoring are tabulated in Tables 1 through 3. Historical data (May 2023 baseline through the August 2024 twelve-month performance monitoring event) is presented in Appendix G. Trend graphs for the parameters discussed below are included in Appendix H. Parameters which were not detected above their respective reporting limits (RLs) are graphed at 0.0 mg/L (or applicable unit), with the exception of dissolved metals, which are graphed on a logarithmic scale and therefore present non-detects as the respective RL.

3.1 ELECTRON DONOR

COD is used as a proxy for electron donor distribution and longevity at a particular monitoring well. In general, COD greater than 50 mg/L is optimal to sustain reductive dechlorination. Specific conductivity is likely to increase over time due to the presence of some electron donors.

The presence of volatile fatty acids (VFAs) also indicates the presence of electron donors, as well as the rate and extent of fermentation.

3.1.1 Upgradient Wells

Trend graphs for electron donors at monitoring wells RU-8 and RU-15 are presented in Charts 1 through 4, respectively.

COD was not quantified in RU-8 in the baseline through nine-month performance monitoring events above the RL of 5 mg/L, and was quantified slightly above the RL at 6 mg/L in August 2024. COD at RU-15 increased from an estimated 4.2 J mg/L to 27.3 mg/L in February 2024, and decreased to 9.2 mg/L in August 2024. RU-15 is located approximately 30 feet from IJ-20, which was utilized during the remedy implementation in the Southern Treatment Area (see Figure 2). The specific conductance in upgradient monitoring wells ranged between 0.128 mS/cm and 0.697 mS/cm. VFAs were not quantified or estimated in RU-8 or RU-15 between August 2023 and August 2024.

3.1.2 Treatment Area Wells

Electron donor trend graphs for monitoring wells RU-9, RU-10, RU-19, RU-20, RU-21, RU-27A, and RU-28 are presented in Charts 5 through 18, respectively. Wells RU-10, RU-19, RU-20, RU-21, and RU-27A are located in the Southern Treatment Area and have the potential to be affected by the June 2023 Southern Treatment Area injections. Wells RU-9 and RU-28 are located in the Northern Treatment Area and have the potential to be affected by the July 2024 Northern Treatment Area injections.

COD within the Southern Treatment Area (at monitoring wells RU-10, RU-19, RU-21, and RU-27A) increased between three and six months following the remedy implementation. Concentrations of COD decreased in August 2024 in all wells except RU-10; however, concentrations remain at or above the optimal level (47.5 mg/L at RU-27A and between 272 and 1,970 mg/L in the remaining wells) indicating the continued presence of electron donor. The

specific conductance likewise increased following the remedy implementation and remains elevated with respect to the baseline values, except at RU-27A which decreased by nearly half between May 2024 (0.806 mS/cm) and August 2024 (0.433 mS/cm). The concentration of VFAs increased through August 2024 at RU-10 and RU-19. Acetic acid and propionic acid were quantified at RU-21 and RU-27A in August 2024; however, concentrations are decreasing indicating that additional substrate might be required to sustain the anaerobic treatment zone.

As discussed in the Remedy Implementation and Performance Monitoring Report (CEC NY, 2024), Southern Treatment Area well RU-20 is screened between 30 and 40 feet below ground surface (bgs) and has minimal overlap with the targeted treatment intervals (between 10 and 32 feet bgs). COD at RU-20 ranged between 16.7 mg/L and 56.3 mg/L, suggesting that the electron donor was distributed at depth. The specific conductance remained relatively stable between the baseline and nine-month performance monitoring events, and more than doubled between the nine- and twelve-month events (from 0.875 mS/cm to 1.820 mS/cm). Acetic acid was quantified once (1.5 mg/L in February 2024) and estimated once (0.66 J mg/L in August 2024). No other VFAs have been estimated or quantified at RU-20.

COD was not quantified in the wells within the Northern Treatment Area (RU-9 and RU-28) between the baseline and nine-month monitoring events, with the exception of low level quantifications during the six-month event (6.5 mg/L at RU-9 and 6.2 mg/L at RU-28). Following the remedy implementation in the Northern Treatment Area, COD increased by three orders of magnitude and was quantified at 5,590 mg/L in August 2024 in RU-28. In August 2024, COD was not quantified above the RL of 5 mg/L at RU-9, which is located on the western edge of the Northern Treatment Area, and indicating limited impact from electron donor injections. The specific conductance at RU-9 increased during the three-month performance monitoring event but was within the baseline range during subsequent monitoring events. The specific conductance at RU-28 was stable between May 2023 and May 2024 and increased following the remedy implementation in the Northern Treatment Area (from 0.172 mS/cm to 0.591 mS/cm). VFAs have not been estimated or quantified at RU-9, with the exception of the February 2024 monitoring event when propionic acid was estimated at 1.5 J mg/L confirming limited impact from electron donor injections. VFAs were not estimated or quantified in RU-28

prior to the remedy implementation in the Northern Treatment Area. Following the remedy implementation, propionic acid was quantified at 3.14 mg/L.

3.1.3 Downgradient Wells

Electron donor trend graphs for monitoring wells RU-11, RU-16, UA-2, and UA-3 are presented in Charts 19 through 26, respectively.

COD increased in each of the downgradient wells except RU-11, and was quantified above 50 mg/L at RU-16 (181 mg/L) and UA-3 (99.2 mg/L) in August 2024. The specific conductance at the downgradient wells has remained within the background range, between 0.090 ms/cm and 0.525 mS/cm. With the exception of UA-2, VFAs have only been estimated or quantified in trace amounts (less than 2.7 mg/L). At UA-2, acetic acid and propionic acid were quantified during the three-month performance monitoring event at 82 mg/L and 5.7 mg/L, respectively, but have not been quantified or estimated in subsequent monitoring events.

3.1.4 Sentinel Wells

Electron donor trend graphs for COD and specific conductance at sentinel wells CW-13, CW-13A, and WW-18M are presented in Charts 27 through 29, respectively. The sentinel wells are not sampled for VFAs.

The concentration of COD has been stable or decreasing in the sentinel wells. The specific conductance was relatively stable in each of the sentinel wells between May 2023 and May 2024 but increased in August 2024.

3.1.5 Electron Donor Summary

Injection implementation activities in June 2023 distributed electron donor throughout the Southern Treatment Area, as indicated by concentrations of electron donors which are present within the treatment area at concentrations that can sustain reductive dechlorination, and by the

increasing concentrations of COD at downgradient wells RU-16, UA-2, and UA-3. However, concentrations of electron donor indicators are decreasing at RU-21 and RU-27A. VFAs were not quantified at deeper performance monitoring well RU-20 in August 2024, which is located within the treatment area but is screened between 30 and 40 feet bgs and has minimal overlap with the targeted injection interval; however, the increased specific conductance and COD suggest that electron donors are present.

Injection implementation activities in July and August 2024 distributed electron donor throughout the center of the Northern Treatment Areas, as indicated by the increasing concentrations of electron donors at RU-28. The concentration of electron donors has not increased approximately one month following the remedy implementation at RU-9, which is located on the western edge of the Northern Treatment Area. Sentinel wells CW-13, CW-13A, and WW-18M do not appear to have been influenced by the remedy implementation events.

3.2 REDOX INDICATORS

To determine whether redox conditions at a particular location are suitable to support reductive dechlorination, DO, ORP, sulfate, methane, and ferrous iron data were evaluated to determine the redox state at each well. Over time, DO within treatment areas is expected to decrease to zero, while ORP is expected to reach -100 to -300 mV. Reductive dechlorination of TCE to cis-1,2-DCE and complete dechlorination to ethane and ethane typically occurs under sulfate-reducing (sulfate concentrations less than 10 mg/L) to methanogenic (methane concentrations greater than 1 mg/L) conditions. Ferric iron is an alternate electron acceptor for microbial respiration in the absence of oxygen and nitrate, and reduction of ferric iron produces ferrous iron. Elevated levels of ferrous iron (greater than 1 mg/L) can indicate that the groundwater environment is sufficiently reducing to sustain iron reduction and for anaerobic dechlorination to occur.

3.2.1 Upgradient Wells

Redox trends in upgradient monitoring wells RU-8 and RU-15 are presented in Charts 30 through 33 respectively.

Dissolved oxygen is typically measured below 1 mg/L in the upgradient wells. ORP has been measured between 57 mV and 172 mV. Methane has been quantified between an estimated 0.0051 J mg/L and 0.061 mg/L. Ferrous iron concentrations have remained stable, between not detected and 0.07 mg/L at RU-8 and between 1.10 mg/L and 1.16 mg/L at RU-15. Sulfate concentrations have ranged from 19.6 mg/L at RU-15 to 40.5 mg/L at RU-8.

3.2.2 Treatment Area Wells

The redox parameter trends for monitoring wells RU-9, RU-10, RU-19, RU-20, RU-21, RU-27A, and RU-28 are presented in Charts 34 through 47, respectively. Again, wells RU-10, RU-19, RU-20, RU-21, and RU-27A are located in the Southern Treatment Area and have the potential to be affected by the June 2023 Southern Treatment Area injections. Wells RU-9 and RU-28 are located in the Northern Treatment Area and have the potential to be affected by the July 2024 Northern Treatment Area injections.

With the exception of RU-10, DO has typically measured below 0.5 mg/L within the Southern Treatment Area. During sampling events, electron donor typically presented at the top of the water column, and oxygen typically enters the discharge line when the well is purged dry. The ORP initially decreased in each of the treatment area wells; however, the ORP at RU-10 and RU-21 was slightly above the ideal range in August 2024 (-92 mV and -85 mV, respectively), while the ORP at RU-19 and RU-27A increased between the three- and twelve-month performance monitoring events (-12 mV and 90 mV, respectively, in August 2024). The concentration of methane increased at RU-19 and RU-21, and was quantified at 6.1 mg/L in both wells in August 2024. Methane was quantified at 16 mg/L at RU-21 in May 2024; however, the concentration decreased to 8.4 mg/L in August 2024, suggesting slightly less methanogenic conditions.

Ferrous iron, used to evaluate iron reducing conditions, decreased in each of the treatment area wells by an order of magnitude, with the exception of RU-27A which increased from not detected to 1.62 mg/L in August 2024.

Dissolved oxygen has been less than 0.5 mg/L at deep well RU-20 between the six- and twelve-month performance monitoring events, and ORP values have ranged between -200 and -300 mV, indicative of a reducing, anaerobic environment. Methane initially increased to 6.2 mg/L following the June 2023 remedy implementation and stabilized between 4.1 mg/L and 4.8 mg/L during subsequent monitoring events. Ferrous iron decreased by approximately half, from 0.77 mg/L to 0.38 mg/L.

In the Northern Treatment Area, DO and ORP were relatively stable to slightly increasing through the nine-month performance monitoring event. Following the Northern Treatment Area injections, DO and ORP both saw significant decreases at RU-28 (0.0 mg/L and -59 mV, respectively), while concentrations at RU-9 remained stable. Methane was not detected at RU-9 above the RL (0.0052 mg/L) during any monitoring event. In August 2024, methane was estimated at RU-28 at 0.0032 J mg/L. There was a slight increase in ferrous iron at RU-28 between the baseline (0.07 mg/L) and twelve-month (0.23 mg/L) performance monitoring events.

Sulfate concentrations increased at several of the treatment area wells following the Southern Treatment Area injections. At RU-9, which was upgradient to the Southern Treatment Area, sulfate increased from 14.6 mg/L to 183 mg/L between the baseline and three-month performance monitoring events. Sulfate decreased to within background concentrations in May 2024; however, sulfate increased following the remedy implementation in the Northern Treatment Area (68.9 mg/L in August 2024). Sulfate increased to 201 mg/L at RU-10 in August 2024. At RU-19 and RU-21, sulfate increased through February 2024 (to 370 mg/L and 248 mg/L, respectively), and although concentrations decreased in subsequent monitoring events, remains elevated with respect to baseline concentrations. At RU-20, the concentration of sulfate began to increase in February 2024 and continued through August 2024 (264 mg/L). The sulfate concentrations at RU-27A and RU-28 have remained stable.

3.2.3 Downgradient Wells

Redox parameter trends in downgradient wells RU-11, RU-16, UA-2, and UA-3 are presented in Charts 48 through 55, respectively.

Dissolved oxygen and ORP have remained relatively stable in the downgradient wells, with the exception of DO at RU-11 (decreased to 0.0 mg/L in August 2024), DO at UA-2 (increased to 7.50 mg/L in August 2024), and ORP at UA-2 (decreased from 55 mV to -110 mV between May 2023 and August 2024). Methane concentrations have remained below 1 mg/L in the downgradient wells. Ferrous iron increased at each well except UA-3. Sulfate has remained stable at RU-11. At RU-16, sulfate increased to 63.2 mg/L in February 2024 and returned to the baseline range in August 2024. Sulfate increased in UA-2 in February and May 2024, but remained near background concentrations (49.1 mg/L in May 2024). In August 2024, the sulfate concentration in UA-2 had returned to the baseline range. Concentrations are increasing at UA-3 but remain low with respect to the background wells (quantified at 15. 1 mg/L in August 2024).

3.2.4 Sentinel Wells

Redox parameter trends for DO and ORP in sentinel wells CW-13, CW-13A, and WW-18M are presented in Charts 56 through 58, respectively. Field readings for ferrous iron are included in Appendix G. The sentinel wells are not routinely analyzed for methane or sulfate.

At CW-13, dissolved oxygen ranged between 6.73 mg/L and 9.81 mg/L, with the exception of February 2024 when dissolved oxygen was measured at 0.0 mg/L. ORP has remained stable, ranging between -79.9 to -111 mV. At CW-13A, DO was quantified between 0.12 and 1.03 mg/L between May 2023 and February 2024, and increased to 7.00 mg/L in August 2024. The ORP has remained stable, ranging between 7.7 and 16.4 mV. Dissolved oxygen and ORP have decreased slightly at WW-18M, with DO ranging from 5.41 mg/L in May 2023 to 3.00 mg/L in August 2024, and ORP ranging from 271 mV to 71 mV in the same period.

3.2.5 Redox Summary

Redox conditions were established within the Southern Treatment Area that are conductive to reductive dechlorination; however, as of August 2024 the ORP was slightly below the optimal range at RU-10 and RU-21 and significantly above the optimal range at RU-19 and RU-27A. Within the Northern Treatment Area, RU-9 appears to be unimpacted by the remedy implementation. Dissolved oxygen and ORP are decreasing at RU-28, although the ORP remains above the optimal range (-59 mV in August 2024). With the exception of UA-2, conditions at the downgradient wells are not significantly reducing. Conditions at sentinel wells do not appear to be influenced by the remedy implementation.

Sulfate concentrations in upgradient wells RU-8, RU-15, and RU-28 have remained stable since May 2023. At RU-9, sulfate concentrations increased following both the remedy implementation in the Southern Treatment Area (when the well was upgradient of treatment) and in the Northern Treatment Area. Elevated sulfate concentrations can be a competing alternate electron acceptor for microbial respiration and potentially inhibit anaerobic dechlorination. In conjunction with low COD, elevated sulfate can indicate that additional donor may be required. Sulfate concentrations in the center of OU3 (at RU-10, RU-19, RU-20, and RU-21) continue to increase or remain elevated with respect to the baseline concentrations. Although sulfate concentrations increased at downgradient wells RU-16 and UA-2 following the remedy implementation in the Southern Treatment Area, concentrations were similar to those in the upgradient wells in August 2024.

3.3 DISSOLVED METALS

The OU3 100% RD indicated a potential for increases in arsenic, iron, and manganese due to redox conditions. Trends in dissolved metals are presented in Charts 59 through 74.

Dissolved metals concentrations remained stable at upgradient well RU-8. Dissolved iron and dissolved manganese increased slightly at RU-15 during the six-month performance monitoring

event and returned to baseline concentrations during the nine- and twelve-month performance monitoring events.

Within the treatment area, the concentration of dissolved metals has remained relatively stable at RU-9, RU-10, RU-20, and RU-21. At RU-19, dissolved metals increased between the three- to nine-month performance monitoring events. Concentrations remained stable between the nine- and twelve-month performance monitoring events. At RU-27A, dissolved iron and dissolved manganese increased by two to three orders of magnitude through May 2024; however, concentrations appear to be decreasing in August 2024. Dissolved metals were not quantified or estimated at RU-28 prior to the remedy implementation in the Northern Treatment Area. In August 2024, the concentration of dissolved manganese increased by two orders of magnitude.

The concentration of dissolved metals at the downgradient and sentinel wells have not shown significant (i.e. order of magnitude) increases between the baseline and twelve-month performance monitoring events, with the exception of RU-16, UA-2, and UA-3. Specifically, sentinel wells CW-13 and CW-13A did not demonstrate increases in dissolved metals greater than one order of magnitude from baseline concentrations, suggesting adverse effects were not occurring. At RU-16, dissolved iron and dissolved manganese increased by two orders of magnitude in August 2024, and were quantified at 8.55 mg/L and 19.8 mg/L, respectively. At UA-2, the concentrations of dissolved iron and dissolved manganese increased by an order of magnitude in May 2024 and remained elevated with respect to the baseline in August 2024. Dissolved iron also increased by an order of magnitude at UA-3.

Dissolved metals will be evaluated prior to initiating additional electron donor injection events.

3.4 BIOLOGICAL PARAMETERS

Dehalococcoides (DHC) activity is optimal in the pH range between 6 and 8, so pH trends are evaluated to ensure proper conditions for DHC activity are present within the treatment areas. As discussed in the RI-PMR, the KB-1 Plus culture is acclimated to a pH as low as 5.8. Alkalinity, an indicator of biological activity, is expected to increase over time. The population

of DHC in treatment area wells was measured in May 2024 to assess the effect of the August 2023 bioaugmentation event, and is included in Appendix G. As discussed in the 100% RD, degradation of DCE and VC typically occurs with DHC concentrations greater than 10^4 cells per milliliter (cells/mL). Three functional genes, tceA, vrcA, and bvcA, which have differing reductive capabilities, are also monitored.

3.4.1 Upgradient Wells

Biological indicator trends in upgradient monitoring wells RU-8 and RU-15 are presented in Charts 75 and 76, respectively.

The pH of upgradient wells RU-8 and RU-15 is typically between 5.9 and 6.1 S.U. Alkalinity at RU-8 remained stable through the six-month performance monitoring event (240 mg/L) and increased slightly in August 2024 (340 mg/L). At RU-15, alkalinity increased during the nine-month performance monitoring event (from a baseline concentration of 60 mg/L to 100 mg/L) and remained slightly above the baseline during the twelve-month performance monitoring event (80 mg/L).

3.4.2 Treatment Area Wells

Biological indicator trends in upgradient monitoring wells RU-9, RU-10, RU-19, RU-20, RU-21,RU-27A, and RU-28 are presented in Charts 77 through 83, respectively. As previously discussed, wells RU-10, RU-19, RU-20, RU-21, and RU-27A are located in the Southern Treatment Area and have the potential to be affected by the June 2023 Southern Treatment Area injections. Wells RU-9 and RU-28 are located in the Northern Treatment Area and have the potential to be affected by the July 2024 Northern Treatment Area injections.

Within the Southern Treatment Area, the pH has remained above 5.80 S.U. since the June 2023 injections, while alkalinity is generally increasing. The pH at RU-10 has increased from 5.28 S.U. in May 2023 to 6.60 S.U. in August 2024. The alkalinity in this well has also shown a slight increase in the same period, from 200 mg/L to 280 mg/L. At RU-19, the pH has been

variable with an overall decreasing trend, although the August 2024 measurement (6.09 S.U.) remains within the acceptable range for DHC. The alkalinity at RU-19 has nearly doubled since the baseline monitoring (300 mg/L) and was quantified at 580 mg/L in August 2024. The pH at RU-21 showed the greatest variability between May 2023 (5.67 S.U.) November 2023 (7.41 S.U.) and has since ranged between 6.34 S.U. and 6.73 S.U. The alkalinity at RU-21 has been variable with an overall increase between May 2023 (244 mg/L) and August 2024 (752 mg/L). The pH at RU-27A ranged between 5.95 S.U. and 6.90 S.U., while the alkalinity showed an initial increase following the June 2023 injections and has since stabilized between 360 mg/L and 423 mg/L.

The pH at deep well RU-20 increased following the June 2023 injections (to 8.62 S.U. in November 2023) but has otherwise ranged between 6.82 S.U. and 7.30 S.U. With the exception of one reading in February 2024 (501 mg/L), alkalinity at RU-20 has ranged between 225 mg/L and 248 mg/L.

Within the Northern Treatment Area, pH and alkalinity have been relatively stable. The pH at RU-9 showed the greatest variability between May 2024 (7.67 S.U.) and August 2024 (5.89 S.U.). The pH at RU-28 decreased in apparent response to the July and August 2024 remedy implementation and was quantified at 5.02 S.U. in August 2024.

Monitoring wells within the treatment area were resampled for DHC analysis in May 2024, with the exception of RU-10 as discussed in Section 2.1. DHC were not quantified within the Northern Treatment Area, which was upgradient of the remedy implementation at the time of sampling. The DHC population in the vicinity of RU-19 and RU-27A had a moderate increase of both DHC and the tceA and vcrA function genes; however, the concentrations (47 cells/mL and 35 cells/mL, respectively) remain two orders of magnitude below what is considered necessary for efficient degradation. The population of DHC at RU-21, which was the only monitoring well to have a sufficient population of DHC during the baseline monitoring (4,740 cells/mL), decreased slightly in August 2024 (3,200 cells/mL), while the concentration of the tceA functional gene remained stable. However, the concentration of the vcrA functional gene, which is capable of degrading TCE to ethene, increased by over a half order of magnitude (from

436 cells/mL to 1,600 cells/mL). In deeper well RU-20, the population of DHC remained relatively stable between May 2023 and May 2024 (2.50 cells/mL and 1.40 cells/mL, respectively), with no detections of the functional genes. The bvcA functional gene, which is primarily associated with the degradation of DCE and VCE to ethene, was not quantified in any well during the May 2023 and May 2024 monitoring events.

3.4.3 Downgradient Wells

Biological indicator trends in downgradient monitoring wells RU-11, RU-16, UA-2, and UA-3 are presented in Charts 84 through 87, respectively.

Biological parameters in downgradient monitoring wells have remained relatively stable throughout 2024. With the exception of RU-11, pH in the downgradient monitoring wells is typically between 5.8 and 6.0 S.U. At RU-11, the pH is consistently higher and was between 6.94 and 6.98 S.U. in 2024. A moderate increase in alkalinity was observed at RU-11 and RU-16 (to 260 mg/L and 140 mg/L, respectively, in August 2024).

3.4.4 Sentinel Wells

Biological indicator trends in sentinel monitoring wells CW-13, CW-1A, and WW-18M are presented in Charts 88 through 90, respectively. The pH and alkalinity have remained stable at the sentinel monitoring wells.

3.4.5 Biological Parameters Summary

The pH within the Southern Treatment Area has remained within the optimal range of between 5.8 and 8.0 S.U. while alkalinity is increasing. There was no change in alkalinity within the Northern Treatment Area approximately two weeks after completion of the July and August 2024 injections. The pH at RU-28 decreased to 5.02 S.U. in August 2024. There were no significant changes in the microbial population between May 2023 and May 2024.

The pH and alkalinity at the downgradient and sentinel wells have remained relatively stable.

3.5 VOLATILE ORGANIC COMPOUNDS

The concentration trends for PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, VC, and ethene over time provide direct evidence of the reductive dechlorination and breakdown of TCE, the primary compound of concern at the Site. VOC concentrations for each well are discussed below and presented graphically on both a mass and molar basis. Discussions below on total mass and molar concentration of chlorinated compounds represents the cumulative concentration of PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, VC, and ethene.

3.5.1 Upgradient Wells

Trends in mass concentration and molar fractions for VOCS in upgradient area wells RU-8 and RU-15 are presented on Charts 91 through 94.

The concentration of TCE is increasing at RU-8; however, the May 2023 baseline concentration may be an outlier. In the January 31, 2013, Groundwater Characterization for Evaluation of Natural Attenuation as a Remedial Alternate report as prepared by ENI Engineering, LLC and submitted as Appendix E to the January 31, 2013, Focused Feasibility Study, RU-8 was sampled on November 20, 2011 with a reported concentration of TCE of 0.120 mg/L, which is within the range of concentrations quantified between February and August 2024 (0.15 to 0.20 mg/L). PCE, trans-1,2 DCE, VC, and ethene were not quantified at RU-8 during the baseline monitoring. PCE and VC were estimated during both the February 2024 and August 2024 performance monitoring events, and trans-1,2 DCE was estimated in RU-8 in August 2024. Despite the apparent increase in the concentration of TCE, the molar fractions have remained stable, with over 90% of the total ethenes being TCE (Chart 92).

The concentrations of TCE, cis-1,2 DCE, trans-1,2 DCE, and VC each increased in February 2024 at RU-15, but returned to baseline levels in August 2024 (Chart 93). PCE and ethene have not been quantified at RU-15 during any performance monitoring event. The molar fractions of

TCE, cis-1,2 DCE, and VC have remained stable between May 2023 and August 2024 (Chart 94).

3.5.2 Treatment Area Wells

Trends in mass concentration and molar fractions for VOCs in treatment area wells are presented on Charts 95 through 108. Wells RU-10, RU-19, RU-20, RU-21, and RU-27A are located in the Southern Treatment Area and have the potential to be affected by the June 2023 Southern Treatment Area injections. Wells RU-9 and RU-28 are located in the Northern Treatment Area and have the potential to be affected by the July 2024 Northern Treatment Area injections.

At RU-9, which was upgradient to the treatment area until August 2024, the concentrations of TCE and cis-1,2 DCE have decreased following the three-month performance monitoring event and have remained relatively stable between February 2024 and August 2024 (Chart 95). The molar fractions (Chart 96) show that the composition of the total ethenes at RU-9 is highly variable, alternating between primarily (80-100%) TCE and nearly 50% TCE and cis-1,2 DCE, likely due to the very low concentration of cis-1,2 DCE at this well. Cis-1,2 DCE was estimated or quantified in three of the five monitoring events at concentrations ranging from 0.00027 J mg/L to 0.0015 mg/L. PCE, trans-1,2 DCE, VC, and ethene have not been quantified at RU-9 during any performance monitoring event.

The concentrations of TCE, cis- and trans-1,2 DCE, and VC have decreased at RU-10 between May 2023 and August 2024 (Chart 97). PCE was not quantified above the RL (0.002 mg/L) in May 2023 or May 2024; however, PCE was quantified at 0.012 mg/L in August 2024. Ethene has not been quantified at RU-10. As shown on Chart 98, TCE and cis-1,2 DCE were each nearly 50% of the total ethenes in May 2023 (with less than 3% of trans-1,2 DCE and VC). In 2024, the molar fraction of cis-1,2 DCE increased to between 75% and 85% while the fraction of TCE decreased to 15%.

As shown on Chart 99, between May 2023 and May 2024, the overall trend at RU-19 showed decreasing concentrations of TCE (quantified between 0.23 mg/L and 0.16 mg/L) and increasing

concentrations of cis-1,2 DCE and VC (quantified between 0.097 mg/L to 0.19 mg/L and 0.0059 mg/L to 0.0097 mg/L, respectively). In August 2024, the concentrations of TCE, cis-1,2 DCE, trans-1,2 DCE and VC more than doubled. The concentration of PCE, which was estimated in two of the four monitoring events between May 2023 and May 2024, also doubled in August 2024. Referring to Chart100, between November 2023 and August 2024, there is a slight increase in the molar fraction of TCE (26% to 38%), while cis-1,2 DCE shows a corresponding decrease (69% to 54%). The fraction of VC remains relatively stable, between 3% and 8%.

At RU-20, TCE shows an overall decreasing trend with significantly lower concentrations quantified immediately following the remedy implementation events (0.1 mg/L in November 2023 and August 2024). As shown on Chart 101, the concentration of cis-1,2 DCE has shown a steadier increasing trend, from 0.087 mg/L in May 2023 to 0.34 mg/L in August 2024. Although the concentration of trans-1,2 DCE is three orders of magnitude lower than cis-1,2 DCE, the concentration is remaining relatively stable during the same period (from not quantified above 0.005 mg/L to an estimated 0.0024 J mg/L). The molar fractions of TCE and cis-1,2 DCE also show a response to the remedy implementation events, while the overall trend shows that the fraction of TCE is decreasing (from 83% in May 2023 to 18% in August 2024) while cis-1,2 DCE increases (from 17% to 82% in the same period). PCE, VC, and ethene have not been quantified at RU-20.

The concentration of TCE has shown considerable variability at RU-21, while the concentrations of other VOCs have remained stable to slightly decreasing (Chart 103). Referring to Chart 104, the overall trend shows that the molar fractions of cis-1,2 DCE and VC are increasing while TCE decreases.

The concentration of VOCs, in particular cis-1,2 DCE and VC, increased at RU-27A following the June 2023 Southern Treatment Area injections. Concentrations returned to near baseline levels in February 2024, and continued to decrease through August 2024 (Chart 105). With the exception of the November 2023 monitoring event, the molar fractions at RU-27A have remained relatively stable (Chart 106). PCE and ethene have not been quantified at RU-27A.

The concentration of TCE was elevated at RU-28 during the November 2023 and February 2024 performance monitoring events, and returned to baseline levels in May 2024 (Chart 107). The molar fractions shown on Chart 108 are stable between May 2023 and May 2024 (approximately 85% TCE and 15% cis-1,2 DCE). RU-28 was upgradient to the remedy implementation activities conducted prior to July 2024, and the molar fractions suggest that changes in the mass concentration in November 2023 and February 2024 are unrelated to the injections in the Southern Treatment Area. Concentrations of VOCs remained stable through the August 2024, with the exception of PCE, which was quantified at 0.018 mg/L. Changes in the molar fractions of VOCs in August 2024 (Chart 108) are attributed to the presence of PCE, which had not been estimated or quantified in previous monitoring events, with the exception of November 2023 (estimated 0.00021 J mg/L).

3.5.3 Downgradient Wells

Trends in mass concentration and molar fractions for VOCS in downgradient area wells are presented on Charts 109 through 116.

As shown on Chart 109, there has been an overall decrease in TCE and cis-1,2 DCE at RU-11. TCE was estimated at 0.00028 J mg/L in May 2023, and has not been quantified above the RL (0.001 mg/L) in February or August 2024. As shown on Chart 110, there has been an overall decrease in cis-1,2 DCE as a fraction of total ethenes at RU-11 (from 87% to 73%), with a corresponding increasing in the fraction of VC (11% to 27%).

The mass concentration and molar fractions of VOCS in RU-16 are presented on Charts 111 and 112, respectively. No VOCs were quantified above the RL (0.001 mg/L) at RU-16 in February 2024. However, in August 2024 the concentrations and molar fractions had returned to baseline levels.

At UA-2, the concentrations of TCE and cis-1,2 DCE have been variable throughout 2023 and 2024, but returned to near-baseline concentrations below regulatory levels in August 2024 (Chart 113). However, as shown on Chart 114, the molar fractions of TCE and cis-1,2 DCE have

changed, with TCE decreasing from 57% to 27% of the total ethenes, while cis-1,2 DCE increased from 43% to 59% between May 2023 and August 2024. VC, which had not been quantified at UA-2 above the RL (0.001 mg/L), was estimated at 0.0006 J mg/L in August 2024, suggesting that limited reductive dechlorination is occurring at UA-2.

Concentrations of VOCs at UA-3 have remained relatively stable between May 2023 and August 2024 (Chart 115) and below regulatory levels. However, as shown on chart 116, the molar fraction of TCE is decreasing (from 55% to 27%) while the molar fraction of cis-1,2 DCE is increasing (from 45% to 73%), suggesting that limited dechlorination of TCE to cis-1,2 DCE is occurring even at concentrations below regulatory levels.

3.5.4 Sentinel Wells

Trends in mass concentration and molar fractions for VOCS in the sentinel wells are presented on Charts 117 through 122.

The concentrations of chlorinated VOCs have been relatively stable at CW-13 between the November 2023 and August 2024 (Charts 117 and 118). VOCs have not been quantified above the RL (0.001 mg/L) in any sample collected at CW-13A. There have been minor increases in concentrations of TCE and cis-1,2 DCE at WW-18M between May 2023 and August 2024 (from 0.093 mg/L to 0.012 mg/L and from not detected to 0.0005 mg/L, respectively).

3.5.5 Chlorinated Compounds Summary

The concentration of chlorinated VOCs remained stable in upgradient wells RU-8 and RU-15. Although performance monitoring wells RU-9 and RU-28 are located within the Northern Treatment Area, they were considered upgradient wells prior to the July and August 2024 injections. The twelve-month performance monitoring event was conducted in late August 2024 and prior to bioaugmentation of the Northern Treatment Area. It is therefore to be expected that there were no significant changes in VOC concentrations at these wells.

Within the Southern Treatment Area, changes in the mass concentrations and molar fractions of TCE and cis-1,2 DCE, and to a lesser extent VC, at performance monitoring wells RU-10, RU-20, and RU-21 suggest that reductive dechlorination is occurring at the center of the plume. VOC concentrations at RU-27A, where baseline concentrations were one to two orders of magnitude lower than other wells within the Southern Treatment Area, show a slight decrease between May 2023 and August 2024. Concentrations are currently increasing at RU-19.

At the downgradient wells, mass concentrations of VOCs have remained relatively stable. However, changes in the molar fractions suggest that reductive dechlorination of TCE to cis-1,2 DCE is occurring at UA-2 and UA-3 even at concentrations below regulatory levels, and dechlorination of cis-1,2 DCE to VC is occurring at RU-11. There have been no significant changes in VOCs at the sentinel wells.

4.0 CONCLUSIONS

In January 2023, implementation of the OU3 RAWP began with the initiation of the procurement process for selecting a constructor. Implementation of the OU3 RAWP consisted of baseline sampling, injection implementation and bioaugmentation in the Southern Treatment Area, and performance monitoring. The electron donor was evenly distributed throughout the Southern Treatment Area with the intent of establishing suitable redox conditions and microbial populations to support biodegradation. Implementation of the OU3 RAWP through the three-month post-injection performance monitoring was discussed in the RI-PMR (CEC NY, 2024). Site activities in 2024 consisted of the six-, nine-, and twelve-month performance monitoring events. Remedy implementation in the Northern Treatment Area, including the July and August 2024 injections, will be discussed in a separate report.

Results of the performance monitoring indicated that the remedy implementation was successful in distributing electron donors throughout OU3. Redox parameters, including DO, ORP, ferrous iron, and sulfate, indicate that reduction may not be occurring at the design rate. ORP within the treatment area was above the optimal range (-100 to -300 mV), and was quantified between 90 mV and -92 mV in August 2024. Although DO was consistently quantified below 0.5 mg/L (except at RU-10), the concentration of ferrous iron decreased throughout the Southern Treatment Area. The concentration of sulfate increased at many of the performance monitoring wells following the remedy implementation, and continues to be elevated in several of the treatment area wells. Elevated sulfate concentrations can be a competing alternate electron acceptor for microbial respiration and potentially inhibit anaerobic dechlorination. In conjunction with low COD, elevated sulfate can indicate that additional donor may be required.

The pH remained within the optimal range of 5.8 to 8.0 S.U., with the exception of RU-28, where pH appeared to decrease in response to the injections in the Northern Treatment Area. Alkalinity has increased in the treatment area wells. There were no significant changes in the microbial population during the May 2024 performance monitoring event.

Concentrations of dissolved metals were elevated by one or more orders of magnitude within the treatment area as well as at downgradient wells RU-16, UA-2, and UA-3. The concentration of dissolved metals remained stable within the sentinel monitoring wells, suggesting adverse effects were not occurring.

Trends for VOC mass concentrations show that TCE is generally decreasing and cis-1,2 DCE is generally increasing within the treatment area. Changes in the molar fractions of ethenes within the treatment area also suggest that TCE is being converted to cis-1,2 DCE. Mass concentrations in downgradient and sentinel monitoring wells are generally stable.

The January 8, 2025, Revised Remedy Optimization Work Plan (CEC NY, 2025) was submitted in part to address indications that reduction may not be occurring at the design rate at OU3, as well as the lower than expected microbial populations, and included installation of a bioaugmentation network and collection of additional geochemical parameters to evaluate potential microbial degraders (remedy optimization testing). The installation of the bioaugmentation network will be included in the upcoming Remedy Implementation Report for the Northern Treatment Area. The results of the remedy optimization testing will be provided in a future letter report. As discussed in Section 4.0 of the 100% RD (CDM Smith, 2018), additional electron donor injections are expected to occur every three to four years until site remedial action objectives are met. A revised schedule for future injections will be provided with the results of the remedy optimization testing.

Performance monitoring wells will continue to be monitored semi-annually according to the schedule outlined in the OU3 RAWP.

5.0 REFERENCES

ENI Engineering, LLC. 2013. Modeling Report for Evaluation of Groundwater Extraction as a Remedial Alternative, Alcas Cutlery Corporation Facility Site. January 31.

ENI Engineering, LLC. 2013. Groundwater Characterization for Evaluation of Natural Attenuation as a Remedial Alternative, Alcas Cutlery Corporation Facility Site. January 31.

EPA, 2014. Record of Decision. Operable Unit Three Record of Decision for the Olean Well Field Superfund Site Related to the Alcas Source Area. September 30.

CDM Smith, 2012. Final Enhanced Anaerobic Bioremediation Pilot Study Report, Alcas Cutlery Corporation Facility. May.

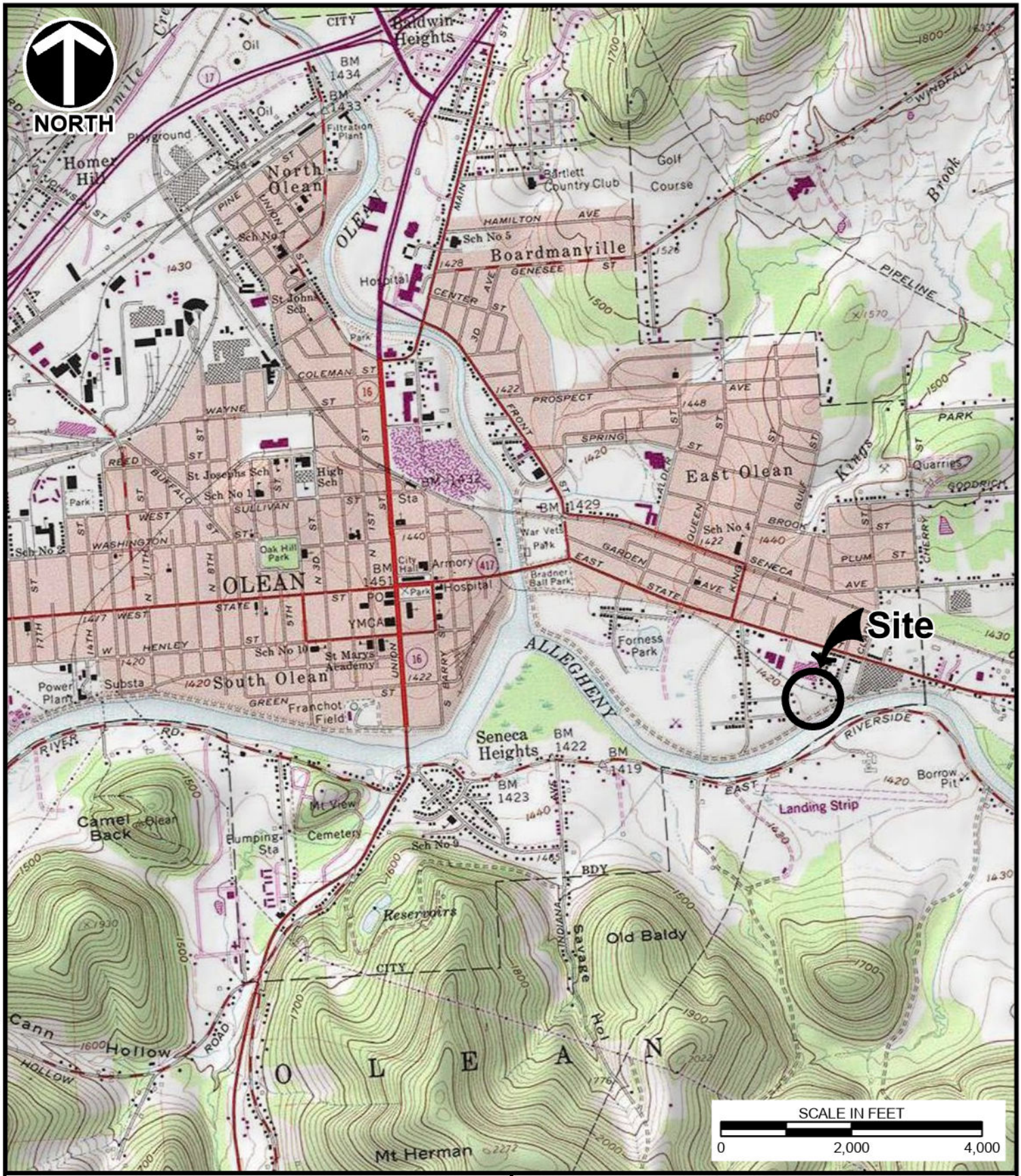
CDM Smith, 2018. Final Design (100% Submittal), Olean Well Field Superfund Site, Operable Unit 3. Revised September 12.

CEC NY, 2022. Remedial Action Work Plan, Operable Unit 3 at the Parcel B Property in the Alcas Source Area, Olean Well Field Superfund Site. Revised May 27.

CEC NY, 2024. Remedy Implementation and Performance Monitoring Report, Operable Unit 3 at the Parcel B Property in the Alcas Source Area, Olean Well Field Superfund Site. April 9.

CEC NY, 2025. Remedy Optimization Work Plan, Alcas Cutlery Corporation Site, Olean Well Field OU2 and OU3. Revised January 8.

FIGURES



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ALCAS SOURCE AREA
OPERABLE UNIT 3
OLEAN, NEW YORK

SITE LOCATION

DRAWN BY:	ZAF	CHECKED BY:	LDC	APPROVED BY:	MWW*	FIGURE NO:	1
DATE:	3/20/2024	SCALE:	1"=2,000'	PROJECT NO:	300-082		

*Hand Signature on file

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NORTH

ALCAS FACILITY
(OU2)

PARCEL B
(OU3)

18M

RU-8
IJ-40
IJ-39
IJ-38
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IJ-36
IJ-35
IJ-34
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RU-9
IJ-32
IJ-31
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IJ-29
RU-28
IJ-27
IJ-42
IJ-28
TW-3
IJ-41
RU-15
IJ-26
IJ-25
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IJ-43
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RU-10
TW-2
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IJ-18
IJ-17A/B
IJ-15
IJ-14
IJ-19
IJ-16A/B/C
RU-20
RU-19
CW-13
TW-1
IJ-12
IJ-10
TW-5
IJ-13
TW-4
IJ-11A/B
IJ-9A/B
CW-13A
IJ-8
IJ-7
TW-6
IJ-5A/B
UA-2
RU-27A
IJ-6A/B
IJ-4
IJ-3
IJ-2
RU-16
IJ-1
RU-11
UA-3

*HAND SIGNATURE ON FILE

LEGEND

- OPERABLE UNIT BOUNDARY
- SOUTHERN TREATMENT AREA
- MONITORING WELL
- TEMPORARY MONITORING WELL
- PUBLIC WATER WELL
- INJECTION LOCATION

SCALE IN FEET
0 50 100

REFERENCE

AERIAL PHOTOGRAPHY TAKEN FROM GOOGLE EARTH PRO, DATED OCTOBER 4, 2022.

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ALCAS SOURCE AREA
OPERABLE UNIT 3
OLEAN, NEW YORK

LAYOUT OF OPERABLE UNIT 3

DRAWN BY:	DWD	CHECKED BY:	LDC	APPROVED BY:	MWW*	FIGURE NO.:
DATE:	4/9/2025	DWG SCALE:	1"=50'	PROJECT NO:	300-082.0050	2

P:\300-000\300-082\-CADD\Dwg\ENO2\300082-ENO2-LAYOUT OF OPERABLE UNIT 3.dwg\FIG 2} LS:(4/9/2025 - ddable) - LP: 4/9/2025 7:28 AM

TABLES

TABLE 1 (Page 1 of 2)
SIX MONTH PERFORMANCE MONITORING GROUNDWATER ANALYTICAL RESULTS
OPERABLE UNIT 3 IN THE ALCAS SOURCE AREA
OLEAN WELL FIELD SUPERFUND SITE
OLEAN, NEW YORK

		Location	RU-8	RU-9	RU-11	RU-15	RU-16	RU-19	RU-20	RU-21
		Sample ID	OLN-RU008-F007	OLN-RU009-F007	OLN-RU011-F007	OLN-RU015-F007	OLN-RU016-F007	OLN-RU019-F007	OLN-RU020-F007	OLN-RU021-F007
		Lab ID	R2401280-023	R2401280-008	R2401280-010	R2401280-013	R2401280-014	R2401280-017	R2401280-016	R2401280-018
		Date	2/14/2024	2/13/2024	2/13/2024	2/13/2024	2/13/2024	2/13/2024	2/13/2024	2/13/2024
		Time	8:31	11:36	13:32	15:45	17:00	13:30	12:25	15:38
Field Readings	**Units**									
pH	*S.U.*		**6.99**	**6.18**	**6.98**	**5.96**	**5.91**	**6.42**	**6.82**	**6.34**
Temperature	*C*		**6.6**	**7.6**	**7.7**	**7.5**	**6.8**	**9.3**	**10.5**	**9.4**
Conductance	*mS/cm*		**0.697**	**0.515**	**0.524**	**0.2967**	**0.4624**	**1.475**	**0.702**	**1.458**
Dissolved Oxygen	*mg/L*		**0.97**	**7.7**	**7.66**	**0.3**	**0.01**	**0.09**	**0.14**	**0.01**
Oxidation Reduction Potential	*mV*		**160.1**	**220.5**	**68.2**	**50.9**	**126.3**	**-203**	**-204**	**-159**
Field Alkalinity	*mg/L*		**240**	**100**	**291**	**63**	**75**	**375**	**501**	**735**
Ferrous Iron	*mg/L*		NA	NA	NA	NA	NA	NA	NA	NA
Volatile Organic Compounds (VOCs)										
Tetrachloroethene	*mg/L*		**0.00027 J**	<0.001	<0.001	<0.001	<0.001	**0.00047 J**	<0.005	**0.00029 J**
Trichloroethene	*mg/L*		**0.15**	**0.00052 J**	<0.001	**0.0058**	<0.001	**0.18**	**0.36**	**0.085**
cis-1,2-Dichloroethene	*mg/L*		**0.0038**	<0.001	**0.0017**	**0.0064**	<0.001	**0.25**	**0.2**	**0.029**
trans-1,2-Dichloroethene	*mg/L*		<0.001	<0.001	<0.001	**0.00039 J**	<0.001	**0.0024**	**0.0014 J**	**0.0012**
Vinyl chloride	*mg/L*		**0.00027 J**	<0.001	**0.00061 J**	**0.0017**	<0.001	**0.017**	<0.005	**0.018**
Dissolved Gases										
Ethane	*mg/L*		<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.1	<0.052	<0.26
Ethene	*mg/L*		<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.05	<0.25
Methane	*mg/L*		**0.0092**	<0.0052	<0.0052	**0.061**	<0.0052	**4.8 D**	**4.1**	**12 D**
Volatile Fatty Acids (VFAs)										
Acetic Acid	*mg/L*		<1.0	<1.0	<1.0	<1.0	<1.0	**120**	**1.5**	**89**
Butanoic Acid	*mg/L*		<10	<10	<10	<10	<10	**67**	<10	**8.2 J**
Propionic Acid	*mg/L*		<2.0	**1.5 J**	<2.0	<2.0	<2.0	**45**	<2.0	**17**
Dissolved Metals										
Arsenic	*mg/L*		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.076**
Iron	*mg/L*		<0.1	<0.1	**0.23**	**5.49**	<0.1	**29.8**	**0.83**	**57.4**
Manganese	*mg/L*		**0.234**	<0.01	**0.767**	**1.17**	**0.238**	**13.8**	**1.17**	**4.74**
General Chemistry										
Sulfate	*mg/L*		**35.9**	**42.6**	**33.7**	**28.5**	**63.2**	**370**	**65.7**	**248**
Chemical Oxygen Demand	*mg/L*		<5.0	**6.5**	<5.0	**27.3**	**27.6**	**614**	**38.9**	**259**

Notes:
Bolded values were detected at concentrations above the Method Detection Limit (MDL).
mg/l - Milligrams per liter
S.U. - Standard Units
mS/cm - MilliSiemens per centimeter
mV - Millivolts

< - Analyte not detected above Method Reporting Limit (MRL).
J - Estimated value due to etiher being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL.
D - Concentration is a result of a dilution.
NA - Not analyzed.

TABLE 1 (Page 2 of 2)
SIX MONTH PERFORMANCE MONITORING GROUNDWATER ANALYTICAL RESULTS
OPERABLE UNIT 3 IN THE ALCAS SOURCE AREA
OLEAN WELL FIELD SUPERFUND SITE
OLEAN, NEW YORK

		Location	RU-27A	RU-28	UA-2	UA-3	CW-13	CW-13A	WW-18M
		Sample ID	OLN-RU27A-F007	OLN-RU028-F007	OLN-UA002-F007	OLN-UA003-F007	OLN-CW013-F007	OLN-CW13A-F007	OLN-WW18M-F007
		Lab ID	R2401280-011	R2401280-009	R2401280-019	R2401280-022	R2401280-002	R2401280-003	R2401280-006
		Date	2/13/2023	2/13/2023	2/13/2024	2/14/2024	2/12/2024	2/12/2024	2/13/2023
		Time	14:41	12:27	17:03	9:00	14:32	14:52	8:00
Field Readings	**Units**								
pH	*S.U.*		**6.17**	**6.08**	**5.83**	**5.61**	**6.92**	**6.1**	**7.45**
Temperature	*C*		**8.6**	**7.5**	**8.8**	**8.6**	**10**	**9.5**	**11.8**
Conductance	*mS/cm*		**0.864**	**0.1978**	**0.337**	**0.128**	**0.822**	**0.345**	**0.537**
Dissolved Oxygen	*mg/L*		**0.07**	**4.56**	**0.22**	**0.51**	0.0	**0.12**	**4.51**
Oxidation Reduction Potential	*mV*		**-67.5**	**239**	**-1**	**-17.6**	**-117**	**16.4**	**216.3**
Field Alkalinity	*mg/L*		**381**	**72**	**60**	**60**	**189**	**69**	**153**
Ferrous Iron	*mg/L*		NA	NA	NA	NA	NA	NA	NA
Volatile Organic Compounds (VOCs)									
Tetrachloroethene	*mg/L*		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethene	*mg/L*		**0.00071 J**	**0.038**	**0.00056 J**	**0.00095 J**	**0.0027**	<0.001	**0.011**
cis-1,2-Dichloroethene	*mg/L*		**0.0056**	**0.0044**	<0.001	**0.00079 J**	**0.00091 J**	<0.001	**0.00032 J**
trans-1,2-Dichloroethene	*mg/L*		**0.00021 J**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl chloride	*mg/L*		**0.0013**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dissolved Gases									
Ethane	*mg/L*		<0.1	<0.0052	<0.0052	<0.0052	NA	NA	NA
Ethene	*mg/L*		<0.1	<0.005	<0.005	<0.005	NA	NA	NA
Methane	*mg/L*		**5.5**	<0.0052	**0.035**	**0.076**	NA	NA	NA
Volatile Fatty Acids (VFAs)									
Acetic Acid	*mg/L*		**210**	<1	<1.0	**2.7**	NA	NA	NA
Butanoic Acid	*mg/L*		<20	<10	<10	<10	NA	NA	NA
Propionic Acid	*mg/L*		**74**	**1.8 J**	<2.0	<2.0	NA	NA	NA
Dissolved Metals									
Arsenic	*mg/L*		**0.018**	<0.01	<0.01	**0.006 J**	<0.01	<0.01	<0.01
Iron	*mg/L*		**42.3**	<0.1	**0.12**	**1.55**	**6.23**	**3.67**	<0.1
Manganese	*mg/L*		**120**	<0.01	**0.046**	**0.246**	**0.362**	**2.9**	**0.011**
General Chemistry									
Sulfate	*mg/L*		<2	**23.4**	**46.1**	**9.6**	**33.4**	**80.9**	**23.6**
Chemical Oxygen Demand	*mg/L*		**749**	**6.2**	**8.6**	**24.4**	**13.2**	**22.6**	<5.0

Notes:
Bolded values were detected at concentrations above the Method Detection Limit (MDL).
mg/l - Milligrams per liter
S.U. - Standard Units
mS/cm - MilliSiemens per centimeter
mV - Millivolts

< - Analyte not detected above Method Reporting Limit (MRL).
J - Estimated value due to etiher being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL.
D - Concentration is a result of a dilution.
NA - Not analyzed.

TABLE 2
GROUNDWATER ANALYTICAL RESULTS -
OPERABLE UNIT 3 IN THE ALCAS SOURCE AREA
OLEAN WELL FIELD SUPERFUND SITE
OLEAN, NEW YORK

	Location	**RU-9**	**RU-15**	**RU-19**	**RU-20**	**RU-21**	**RU-27A**	**RU-28**	**UA-2**	**WW-18M**
	Sample ID	**OLN-RU009-F008**	**OLN-RU015-F008**	**OLN-RU019-F008**	**OLN-RU020-F008**	**OLN-RU021-F008**	**OLN-RU27A-F008**	**OLN-RU028-F008**	**OLN-UA002-F008**	**OLN-WW18M-F008**
	Lab ID	R2404674-001	R2404674-005	R2404674-006	R2404674-007	R2404674-008	R2404674-009	R2404674-010	R2404674-011	R2404674-012
	Date	5/28/2024	5/29/2024	5/29/2024	5/29/2024	5/29/2024	5/29/2024	5/29/2024	5/29/2024	5/29/2024
	Time	16:06	8:42	17:20	14:55	16:11	14:21	12:35	10:10	9:15
Field Readings	**Units**									
pH	*S.U.*	**7.67**	**6.02**	**6.76**	**7.3**	**6.73**	**6.69**	**6.53**	**5.81**	**6.48**
Temperature	*C*	**17.6**	**13.89**	**13.67**	**14.52**	**15.72**	**16.24**	**16.91**	**11.59**	**13.64**
Conductance	*mS/cm*	**0.357**	**0.27**	**1.57**	**0.875**	**0.849**	**0.806**	**0.172**	**0.356**	**0.542**
Dissolved Oxygen	*mg/L*	**3.72**	0.0	**4.42**	0.0	0.0	0.0	**6.42**	0.0	**3.80**
Oxidation Reduction Potential	*mV*	**281**	**159**	**-59**	**-250**	**-63**	**-65**	**276**	**-38**	**230**
Field Alkalinity	*mg/L*	**60**	**100**	**620**	**248**	**304**	**400**	**75**	**44**	**130**
Ferrous Iron	*mg/L*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Volatile Organic Compounds (VOCs)										
Tetrachloroethene	*mg/L*	<0.001	<0.001	<0.0025	<0.0025	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethene	*mg/L*	**0.00048 J**	**0.0017**	**0.16**	**0.32**	**0.028**	**0.00035 J**	**0.014**	**0.00073 J**	**0.012**
cis-1,2-Dichloroethene	*mg/L*	**0.00032 J**	**0.0014**	**0.19**	**0.26**	**0.022**	**0.0014**	**0.0017**	**0.00075 J**	**0.00044 J**
trans-1,2-Dichloroethene	*mg/L*	<0.001	<0.001	**0.0022 J**	**0.0018 J**	**0.0012**	<0.001	<0.001	<0.001	<0.001
Vinyl chloride	*mg/L*	<0.001	**0.0002 J**	**0.0097**	<0.0025	**0.015**	**0.00049 J**	<0.001	<0.001	<0.001
Dissolved Gases										
Ethane	*mg/L*	<0.0052	<0.0052	<0.1	<0.052	<0.26	<0.1	<0.0052	<0.0052	NA
Ethene	*mg/L*	<0.005	<0.005	<0.1	<0.05	<0.25	<0.1	<0.005	<0.005	NA
Methane	*mg/L*	<0.0052	**0.0077**	**3.6**	**4.8**	**16**	**4.2**	<0.0052	**0.89 D**	NA
Volatile Fatty Acids (VFAs)										
Acetic Acid	*mg/L*	<1.0	<1.0	**230**	<1.0	**54**	**230**	<1.0	<1.0	NA
Butanoic Acid	*mg/L*	<10	<10	**210**	<10	<10	<20	<10	<10	NA
Propionic Acid	*mg/L*	<2.0	<2.0	**120**	<2.0	**10**	**54**	<2.0	<2.0	NA
Dissolved Metals										
Arsenic	*mg/L*	<0.01	<0.01	**0.059**	<0.01	**0.061**	**0.032**	<0.01	<0.01	<0.01
Iron	*mg/L*	<0.1	**1.56**	**118**	**0.99**	**47.5**	**124**	<0.1	**1.91**	<0.1
Manganese	*mg/L*	<0.01	**0.649**	**45.5**	**1.1**	**3.6**	**91.7**	<0.01	**1.38**	**0.01 J**
General Chemistry										
Sulfate	*mg/L*	**25.6**	**19.6**	**99.8**	**187**	**100**	**1.3 J**	**21.1**	**49.1**	NA
Chemical Oxygen Demand	*mg/L*	<5.0	**11.9**	**1,390**	**25**	**267**	**539**	<5.0	**11.5**	NA
Dechlorinating Bacteria										
Dehalococcoides (DHC)	*cells/mL*	<0.250	NA	**47**	**1.4**	**3,200**	**35**	<0.770	NA	NA
tceA Reductase	*cells/mL*	<0.250	NA	**11**	<0.250	**600**	**19**	<0.770	NA	NA
BAV1 Vinyl Chloride Reductase	*cells/mL*	<0.250	NA	<0.480	<0.250	<1.2	<0.940	<0.770	NA	NA
Vinyl Chloride Reductase	*cells/mL*	<0.250	NA	**20**	<0.250	**1,600**	**32**	<0.770	NA	NA

Notes:
Bolded values were detected at concentrations above the Method Detection Limit (MDL).
mg/l - Milligrams per liter
S.U. - Standard Units
mS/cm - MilliSiemens per centimeter
mV - Millivolts
cells/mL - Cells per milliliter

< - Analyte not detected above Method Reporting Limit (MRL).
J - Estimated value due to etiher being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL.
NA - Not analyzed.

TABLE 3 (Page 1 of 2)
TWELVE MONTH PERFORMANCE MONITORING GROUNDWATER ANALYTICAL RESULTS
OPERABLE UNIT 3 IN THE ALCAS SOURCE AREA
OLEAN WELL FIELD SUPERFUND SITE
OLEAN, NEW YORK

		Location	RU-8	RU-9	RU-10	RU-11	RU-15	RU-16	RU-19	RU-20
		Sample ID	OLN-RU008-F009	OLN-RU009-F009	OLN-RU010-F009	OLN-RU011-F009	OLN-RU015-F009	OLN-RU016-F009	OLN-RU019-F009	OLN-RU020-F009
		Lab ID	R2408139-008	R2408139-002	R2408139-007	R2408139-001	R2408139-005	R2408139-003	R2408139-012	R2408140-011
		Date	8/21/2024	8/20/2024	8/21/2024	8/20/2024	8/21/2024	8/20/2024	8/22/2024	8/21/2024
		Time	12:55	14:17	10:30	18:08	8:42	16:05	8:40	15:47
Field Readings	**Units**									
pH	*S.U.*		**6.02**	**5.89**	**6.60**	**6.94**	**5.93**	**6.05**	**6.09**	**7.09**
Temperature	*C*		**16.44**	**18.07**	**15.53**	**15.02**	**10.99**	**16.88**	**12.17**	**13.78**
Conductance	*mS/cm*		**0.201**	**0.688**	**0.938**	**0.525**	**0.314**	**0.267**	**2.10**	**1.820**
Dissolved Oxygen	*mg/L*		0.0	**4.23**	**10.01**	**0.12**	0.0	0.0	**0.26**	**0.26**
Oxidation Reduction Potential	*mV*		**139**	**301**	**-92**	**-14**	**131**	**175**	**-12**	**-290**
Field Alkalinity	*mg/L*		**340**	**80**	**280**	**260**	**80**	**140**	**580**	**232**
Ferrous Iron	*mg/L*		**0.07**	**0.02**	**0.62**	**0.75**	**1.10**	**0.84**	**0.98**	**0.38**
Volatile Organic Compounds (VOCs)										
Tetrachloroethene	*mg/L*		**0.00051 J**	<0.001	**0.012**	<0.001	<0.001	<0.001	**0.0005 D**	<0.0025
Trichloroethene	*mg/L*		**0.2**	**0.00046 J**	**0.022**	<0.001	**0.0014**	**0.0049**	**0.39 D**	**0.1**
cis-1,2-Dichloroethene	*mg/L*		**0.0095**	<0.001	**0.081**	**0.0064**	**0.0012**	**0.027**	**0.42 D**	**0.34**
trans-1,2-Dichloroethene	*mg/L*		**0.00021 J**	<0.001	**0.00055 J**	<0.001	<0.001	**0.00062 J**	**0.0048 DJ**	**0.0024 J**
Vinyl chloride	*mg/L*		**0.00055 J**	<0.001	**0.00068 J**	**0.0015**	**0.00026 J**	**0.0016**	**0.039 D**	<0.0025
Dissolved Gases										
Ethane	*mg/L*		**0.0011 J**	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.1	<0.052
Ethene	*mg/L*		<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.1	<0.05
Methane	*mg/L*		**0.011**	<0.0052	**0.027**	**0.17**	**0.007**	**0.42**	**6.1 D**	**4.2**
Volatile Fatty Acids (VFAs)										
Acetic Acid	*mg/L*		<1.0	<1.0	**3.9**	<1.0	<1.0	**2.1**	**820**	**0.66 J**
Butanoic Acid	*mg/L*		<10	<10	<10	<10	<10	<10	**490**	<10
Propionic Acid	*mg/L*		<2.0	<2.0	**11**	<2.0	<2.0	<2.0	**280**	<2.0
Dissolved Metals										
Arsenic	*mg/L*		<0.01	<0.01	**0.012**	**0.015**	<0.01	**0.019 J**	**0.06**	**0.006 J**
Iron	*mg/L*		<0.1	<0.1	**6.02**	**1.24**	**0.94**	**8.55**	**95**	**0.31**
Manganese	*mg/L*		**0.159**	<0.01	**3.28**	**0.765**	**0.761**	**19.8**	**26.2**	**0.811**
General Chemistry										
Sulfate	*mg/L*		**40.5**	**68.9**	**201**	**25.9**	**24.6**	**6.2**	**68.1**	**264**
Chemical Oxygen Demand	*mg/L*		**6.0**	<5.0	**1,970**	**8.6**	**9.2**	**181**	**838**	**56.3**

Notes:
Bolded values were detected at concentrations above the Method Detection Limit (MDL).
mg/l - Milligrams per liter
S.U. - Standard Units
mS/cm - MilliSiemens per centimeter
mV - Millivolts
cells/mL - Cells per milliliter

< - Analyte not detected above Method Reporting Limit (MRL).
J - Estimated value due to etiher being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL.
D - Concentration is a result of a dilution.
NA - Not analyzed.

TABLE 3 (Page 2 of 2)
TWELVE MONTH PERFORMANCE MONITORING GROUNDWATER ANALYTICAL RESULTS
OPERABLE UNIT 3 IN THE ALCAS SOURCE AREA
OLEAN WELL FIELD SUPERFUND SITE
OLEAN, NEW YORK

	Location	RU-21	RU-27A	RU-28	UA-2	UA-3	CW-13	CW-13A	WW-18M
	Sample ID	OLN-RU021-F009	OLN-RU27A-F009	OLN-RU028-F009	OLN-UA002-F009	OLN-UA003-F009	OLN-CW013-F009	OLN-CW13A-F009	OLN-WW18M-F009
	Lab ID	R2408140-012	R2408139-010	R2408140-010	R2408140-003	R2408140-002	R2408140-006	R2408140-005	R2408140-009
	Date	8/21/2024	8/21/2024	8/21/2024	8/20/2024	8/20/2024	8/21/2024	8/21/2024	8/21/2024
	Time	8:31	16:20	13:06	15:25	13:37	9:41	8:33	11:04
Field Readings	**Units**								
pH	*S.U.*	**6.38**	**6.15**	**5.02**	**5.97**	**6.01**	**6.76**	**6.30**	**7.27**
Temperature	*C*	**13.83**	**16.98**	**17.39**	**13.34**	**14.27**	**12.33**	**11.52**	**NA**
Conductance	*mS/cm*	**1.330**	**0.433**	**0.591**	**0.260**	**0.214**	**1.420**	**0.621**	**0.817**
Dissolved Oxygen	*mg/L*	**3.38**	**1.31**	**0.02**	**7.50**	**0.03**	**6.73**	**7.00**	**3.00**
Oxidation Reduction Potential	*mV*	**-85**	**90**	**-59**	**-110**	**39**	**-111**	**13**	**71**
Field Alkalinity	*mg/L*	**752**	**360**	**40**	**56**	**80**	**196**	**122**	**196**
Ferrous Iron	*mg/L*	**1.97**	**1.62**	**0.23**	**1.32**	**1.03**	**2.60**	**1.72**	**2.6**
Volatile Organic Compounds (VOCs)									
Tetrachloroethene	*mg/L*	**0.0031**	<0.001	**0.018**	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethene	*mg/L*	**0.0025**	**0.00024 J**	**0.016**	**0.0024 J**	**0.00034 J**	**0.0017**	<0.001	**0.012**
cis-1,2-Dichloroethene	*mg/L*	**0.02**	**0.0016**	**0.0021**	**0.0039 J**	**0.00068 J**	**0.00087 J**	<0.001	**0.00047 J**
trans-1,2-Dichloroethene	*mg/L*	**0.0011**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl chloride	*mg/L*	**0.011**	**0.00044 J**	<0.001	**0.0006 J**	<0.001	<0.001	<0.001	<0.001
Dissolved Gases									
Ethane	*mg/L*	<0.1	<0.1	**0.00093 J**	0.013	<0.0052	NA	NA	NA
Ethene	*mg/L*	<0.1	<0.1	<0.005	0.013	<0.005	NA	NA	NA
Methane	*mg/L*	**8.4**	**6.1**	**0.0032 J**	**0.34**	**0.46**	NA	NA	NA
Volatile Fatty Acids (VFAs)									
Acetic Acid	*mg/L*	**7.1**	**9.2**	**230**	<1.0	<1.0	NA	NA	NA
Butanoic Acid	*mg/L*	<10	<10	<10	<10	<10	NA	NA	NA
Propionic Acid	*mg/L*	**10**	**9.3**	**40**	<2.0	<2.0	NA	NA	NA
Dissolved Metals									
Arsenic	*mg/L*	**0.1**	**0.033 J**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Iron	*mg/L*	**59.3**	**78.8**	<0.69	**1.6**	**5.52**	**3.12**	**3.06**	<0.1
Manganese	*mg/L*	**4.19**	**38.4**	**3.14**	**1.25**	**1.44**	**0.346**	**3.89**	**0.01 J**
General Chemistry									
Sulfate	*mg/L*	**60.8**	**1.4 J**	**19.2**	**21.1**	**15.1**	NA	NA	NA
Chemical Oxygen Demand	*mg/L*	**272**	**47.5**	**5,590**	**21.9**	**99.2**	**8.3**	**25.7**	<5.0

Notes:
Bolded values were detected at concentrations above the Method Detection Limit (MDL).
mg/l - Milligrams per liter
S.U. - Standard Units
mS/cm - MilliSiemens per centimeter
mV - Millivolts
cells/mL - Cells per milliliter

< - Analyte not detected above Method Reporting Limit (MRL).
J - Estimated value due to etiher being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL.
D - Concentration is a result of a dilution.
NA - Not analyzed.

APPENDIX A
SIX MONTH SAMPLING RECORDS

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0041**	**Date: 02/12/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel:BDT	**Well #:CW-13 (OLN-CW013-F007)**	**Static Water Level:13.24FT TOC**	

Depth to Top of Screen: NM	**Well Diameter (in.):2**	**Total Well Depth: 51.98 FT TOC**	**Purge Method: Pump**	**Time of Purge Initiation:06/07/2024 14:20**
☐ dedicated	**Date/Time of Pump Installation:02/12/2024 14:06**	**Pump Type: Peristaltic**	**Pump Depth: 49.98 FT TOC**	**Water Level after Pump Installation: 13.03 FT TOC**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (ppm)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)	Other Field Measurements:P Alk: 0.0ppm T Alk: 189ppm
14:22	200 mL/min	6.97	-109.8	0.80	826	9.7	NM	4.21	Clear	13.03	-0.21	
14:25	200 mL/min	6.92	-111.2	0.22	822	9.9	NM	2.52	Clear	13.03	-0.21	
14:28	200 mL/min	6.92	-114.8	0.00	822	10.0	NM	2.06	Clear	13.03	-0.21	Notes: NM - Not Measured
14:31	200 mL/min	6.92	-117.1	0.00	823	10.0	NM	3.30	Clear	13.03	-0.21	
14:34	200 mL/min	6.92	-117.5	0.0	822	10.0	NM	2.97	Clear	13.03	-0.21	
												Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date:02/12/2024	Time:14:37	Water Level:13.03FT TOC	pH (S.U.):6.92	ORP (mV):-117	Diss. Oxygen (ppm):0.00	Spec. Cond (µS/cm):822
Temperature:10.0 °C	TDS (ppm): NM	Turbidity (NTU):2.88	Color/Appearance: Clear	Odor:None		Final Volume Removed:0.75Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean-OU3	**Project No.: 300-082.0041**	**Date: 02/12/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel:EAM, BDT	**Well #:CW-13A (OLN-CW13A-F007)**	**Static Water Level:5.37FT TOC**	

Depth to Top of Screen: NM	**Well Diameter (in.):2**	**Total Well Depth: 34.04 FT TOC**	**Purge Method: Pump**	**Time of Purge Initiation: NM**
☐ dedicated	**Date/Time of Pump Installation:**	**Pump Type: Peristaltic**	**Pump Depth: NM**	**Water Level after Pump Installation: NM**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (ppm)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
14:17	250 mL/min	6.17	202.4	1.89	346	9.7	NM	88.46	Cloudy	6.89	1.52
14:22	250 mL/min	6.14	196.6	0.23	348	9.5	NM	605	Cloudy	7.15	1.78
14:27	250 mL/min	6.14	165.6	0.09	348	9.6	NM	44.75	Slightly Cloudy	7.33	1.96
14:32	175 mL/min	6.14	71.5	0.00	349	9.5	NM	130	Slightly Cloudy	7.45	2.08
14:37	175 mL/min	6.12	37	0.08	348	9.5	NM	100	Slightly Cloudy	7.45	2.08
14:42	175 mL/min	6.12	23.8	0.09	348	9.5	NM	73	Slightly Cloudy	7.45	2.08
14:47	175 mL/min	6.11	18.4	0.11	347	9.5	NM	72	Slightly Cloudy	7.45	2.08

Other Field Measurements:pH Alk.=0 ppm
Total Alk.= 69 ppm

Notes:
NM - Not Measured

Deviations from SAP:
Turbidity did not stabilize within 10%.

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date:02/12/2024	Time:14:52	Water Level:7.45FT TOC	pH (S.U.):6.10	ORP (mV):16.4	Diss. Oxygen (ppm):0.12	Spec. Cond (µS/cm):345
Temperature:9.5 °C	TDS (ppm): NM	Turbidity (NTU):80.5	Color/Appearance: Slightly Cloudy	Odor:None		Final Volume Removed:2.0Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0041**	**Date: 02/13/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel:EAM, BDT	**Well #:RU-10**	**Static Water Level:8.86FT TOC**	

Depth to Top of Screen: NM	**Well Diameter (in.):0.5**	**Total Well Depth: 12.65 FT TOC**	**Purge Method: Pump**	**Time of Purge Initiation:NM**
☐ dedicated	**Date/Time of Pump Installation:**	**Pump Type: Peristaltic**	**Pump Depth: NM**	**Water Level after Pump Installation: NM**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp.	TDS (ppm)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)	Other Field Measurements:
												Notes:
												Deviations from SAP: Not Sampled; Amendment in well.

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date:	Time:	Water Level: NM	pH (S.U.): NM	ORP (mV): NM	Diss. Oxygen (ppm): NM	Spec. Cond (µS/cm): NM
Temperature: NM	TDS (ppm): NM	Turbidity (NTU): NM	Color/Appearance:NM	Odor:NM		Final Volume Removed: NM

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0041**	**Date: 02/13/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel:EAM, BDT	**Well #:RU-19 (OLN-RU020-F007)**	**Static Water Level:7.75FT TOC**	

Depth to Top of Screen: NM	**Well Diameter (in.):2**	**Total Well Depth: 19.48 FT TOC**	**Purge Method: Pump**	**Time of Purge Initiation:NM**
☐ **dedicated**	**Date/Time of Pump Installation:**	**Pump Type: Peristaltic**	**Pump Depth: NM**	**Water Level after Pump Installation: NM**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (ppm)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
13:00	175 mL/min	5.70	73.8	2.28	4140	19	NM	22.5	Slightly Cloudy	8.10	0.35
13:05	175 mL/min	5.89	-137	0.23	2377	9.6	NM	8.60	Clear	8.25	0.5
13:10	175 mL/min	6.21	-167	0.09	1911	9.5	NM	7.10	Clear	8.25	0.5
13:15	175 mL/min	6.33	-184	0	1624	9.3	NM	17.0	Clear	8.27	0.52
13:20	175 mL/min	6.73	-193	0.05	1544	9.2	NM	6.03	Clear	8.27	0.52
13:25	175 mL/min	6.40	-200	0.08	1508	9.2	NM	6.32	Clear	8.27	0.52

Other Field Measurements:pH Alk.= 0 ppm
Total Alk.=375 ppm

Notes:
NM - Not Meausured

Deviations from SAP:
pH did not stabilize within 0.1 S.U.
Turbidity did not stabilize within 10% or less than 5 NTU.

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date:02/13/2024	Time:13:30	Water Level:8.27FT TOC	pH (S.U.):6.42	ORP (mV):-203	Diss. Oxygen (ppm):0.09	Spec. Cond (µS/cm):1475
Temperature:9.3 °C	TDS (ppm): NM	Turbidity (NTU):4.78	Color/Appearance: Clear	Odor:None		Final Volume Removed:2.0Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0041**	**Date: 02/13/2024**
Personnel:EAM, BDT	**Well #:RU-20 (OLN-RU020-F007)**	**Static Water Level:10.78FT TOC**

Civil & Environmental Consultants of New York, Inc.

Depth to Top of Screen: NM	**Well Diameter (in.):2**	**Total Well Depth: 38.40 FT TOC**	**Purge Method: Pump**

Time of Purge Initiation:NM

☐ **dedicated**	**Date/Time of Pump Installation:**	**Pump Type: Peristaltic**

Pump Depth: NM

Water Level after Pump Installation: NM

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (ppm)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
12:00	175 mL/min	6.35	-150	0.67	576	10.5	NM	7.13	Clear	10.94	0.16
12:05	175 mL/min	6.57	-174	0.17	576	10.6	NM	15.5	Clear	11.05	0.27
12:10	175 mL/min	6.68	-186	0	605	10.5	NM	6.32	Clear	11.05	0.27
12:15	175 mL/min	6.74	-195	0.16	642	10.6	NM	8.55	Clear	11.05	0.27
12:20	175 mL/min	6.79	-201	0.11	702	10.6	NM	6.54	Clear	11.07	0.29

Other Field Measurements:pH Alk.=0 ppm
Total Alk.=501 ppm

Notes:
NM - Not Measured

Deviations from SAP:
Specific conductivity did not stabilize within 3%.
Turbidity did not stabilize within 10% or less than 5 NTU.

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date:02/13/2024	Time:12:25	Water Level:11.10FT TOC	pH (S.U.):6.82	ORP (mV):-204	Diss. Oxygen (ppm):0.14	Spec. Cond (µS/cm):702
Temperature:10.5 °C	TDS (ppm): NM	Turbidity (NTU):3.59	Color/Appearance: Clear	Odor:Sulfur	Final Volume Removed:2.5Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3		**Project No.: 300-082.0041**		**Date: 02/13/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel:EAM, BDT		**Well #:RU-21 (OLN-RU021-F007)**		**Static Water Level:7.5FT TOC**	
Depth to Top of Screen: NM	**Well Diameter (in.):2**	**Total Well Depth: 19.25 FT TOC**	**Purge Method: Pump**		**Time of Purge Initiation:NM**
☐ dedicated	**Date/Time of Pump Installation:**	**Pump Type: Peristaltic**	**Pump Depth: NM**		**Water Level after Pump Installation: NM**
LNAPL Present?: No	**LNAPL Depth: NM**	**DNAPL Present?: No**	**DNAPL Depth: NM**		

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (ppm)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
14:48	175 mL/min	6.13	-131	0.88	1949	9.3	NM	110	Cloudy	8.45	0.95
14:53	175 mL/min	6.15	-130.8	0.58	1901	9.3	NM	104	Slightly Cloudy	9.15	1.65
14:58	175 mL/min	6.18	-138.3	0.39	1793	9.3	NM	115	Clear	9.57	2.07
15:03	175 mL/min	6.21	-144	0.31	1705	9.2	NM	83	Clear	9.65	2.15
15:08	175 mL/min	6.27	-154	0.23	1551	9.2	NM	52.6	Slightly Cloudy	9.65	2.15
15:13	175 mL/min	6.31	-161	0.17	1480	9.4	NM	45.9	Slightly Cloudy	9.62	2.12
15:18	175 mL/min	6.31	-161	0.16	1481	9.3	NM	44.2	Slightly Cloudy	9.62	2.12
15:23	175 mL/min	6.33	-162	0.12	1438	9.3	NM	39.2	Slightly Cloudy	9.59	2.09
15:28	175 mL/min	6.34	-164	0.07	1426	9.3	NM	39	Clear	9.55	2.05
15:33	175 mL/min	6.34	-160	0.01	1477	9.3	NM	37	Clear	9.55	2.05

Other Field Measurements:pH Alk.= 0 ppm
Total Alk.=735 ppm

Notes:
OLN-MS001-F007 1540
OLN-MSD001-F007 1545

Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date:02/13/2024	Time:15:38	Water Level:9.55FT TOC	pH (S.U.):6.34	ORP (mV):-159	Diss. Oxygen (ppm):0.01	Spec. Cond (µS/cm):1458
Temperature:9.4 °C	TDS (ppm): NM	Turbidity (NTU):43.7	Color/Appearance: Clear	Odor:None		Final Volume Removed:3.0Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0041**	**Date: 02/13/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel:EAM, BDT	**Well #:UA-2 (OLN-UA002-F007)**	**Static Water Level:7.26FT TOC**	

Depth to Top of Screen: NM	**Well Diameter (in.):2**	**Total Well Depth: 18.85 FT TOC**	**Purge Method: Other Peristaltic pump**	**Time of Purge Initiation:NM**
☐ **dedicated**	**Date/Time of Pump Installation:**	**Pump Type:**	**Pump Depth: NM**	**Water Level after Pump Installation: NM**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (ppm)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
16:33	200 mL/min	6.07	27.2	0.99	342	8.9	NM	6.63	Clear	7.35	0.09
16:38	175 mL/min	5.96	17.0	0.44	342	8.9	NM	6.28	Clear	7.38	0.12
16:43	175 mL/min	5.89	-0.6	0.23	342	9	NM	4.39	Clear	7.40	0.14
16:48	175 mL/min	5.86	-6.8	0.18	341	9.0	NM	2.06	Clear	7.40	0.14
16:53	175 mL/min	5.85	-7.3	0.16	341	8.9	NM	5.09	Clear	7.40	0.14
16:58	175 mL/min	5.84	-6.9	0.18	340	8.9	NM	2.39	Clear	7.40	0.14

Other Field Measurements:pH Alk.=0 ppm
Total Alk.=60 ppm

Notes:
NM - Not Measured

Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date:02/13/2024	Time:17:03	Water Level:7.40FT TOC	pH (S.U.):5.83	ORP (mV):-1.0	Diss. Oxygen (ppm):0.22	Spec. Cond (µS/cm):337
Temperature:8.8 °C	TDS (ppm): NM	Turbidity (NTU):2.56	Color/Appearance: Clear	Odor:None	Final Volume Removed:2.0Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0041**	**Date: 02/14/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel:EAM, BDT	**Well #:UA-3 (OLN-UA003-F007)**	**Static Water Level:6.47FT TOC**	

Depth to Top of Screen: NM	**Well Diameter (in.):2**	**Total Well Depth: 19.75 FT TOC**	**Purge Method: Pump**	**Time of Purge Initiation:NM**
☐ dedicated	**Date/Time of Pump Installation:**	**Pump Type: Peristaltic**	**Pump Depth: NM**	**Water Level after Pump Installation: NM**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (ppm)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
08:15	175 mL/min	7.43	171	2.51	169	7.9	NM	48.7	Cloudy	6.90	0.43
08:20	175 mL/min	6.77	184	1.35	160	8.1	NM	40	Slightly Cloudy	7.95	1.48
08:25	175 mL/min	6.48	192	1.09	159	8.3	NM	39.3	Clear	7.25	0.78
08:30	150 mL/min	6.23	180	0.94	153	8.5	NM	38.7	Clear	7.35	0.88
08:35	150 mL/min	6.03	162	0.81	144	8.4	NM	39.2	Other	7.55	1.08
08:40	150 mL/min	5.88	149	0.72	133	8.3	NM	39.0	Clear	7.65	1.18
08:45	150 mL/min	5.78	134	0.64	131	8.5	NM	32.9	Clear	7.67	1.2
08:50	150 mL/min	5.71	116	0.55	126	8.4	NM	30.2	Clear	7.72	1.25
08:55	150 mL/min	5.65	67	0.49	126	8.6	NM	31	Clear	7.65	1.18

Other Field Measurements:pH Alk.=0 ppm
Total Alk.= 60 ppm

Notes:
NM - Not Measured

Deviations from SAP:
ORP did not stabilize within 10 mV.

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date:02/14/2024	Time:09:00	Water Level:7.80FT TOC	pH (S.U.):5.61	ORP (mV):-17.6	Diss. Oxygen (ppm):0.51	Spec. Cond (µS/cm):128
Temperature:8.6 °C	TDS (ppm): NM	Turbidity (NTU):38.4	Color/Appearance: Clear	Odor:None		Final Volume Removed:2.5Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0041**	**Date: 02/13/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel:BDT	**Well #:RU-11 (OLN-RU011-F007)**	**Static Water Level:9.7FT TOC**	

Depth to Top of Screen: NM	**Well Diameter (in.):0.5**	**Total Well Depth: 12.40 FT TOC**	**Purge Method: Pump**

Time of Purge Initiation:06/07/2024 13:05

☐ dedicated	**Date/Time of Pump Installation:02/13/2024 13:03**	**Pump Type: Peristaltic**

Pump Depth: 12.40 FT TOC

Water Level after Pump Installation: NM

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (ppm)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
13:08	100 mL/min	6.36	225.1	8.00	191.7	7.4	NM	122.5	Slightly Cloudy	NM	NM
13:11	100 mL/min	6.72	126.5	6.82	392.9	7.6	NM	150.82	Slightly Cloudy	NM	NM
13:14	100 mL/min	6.83	102.2	6.63	469.6	7.6	NM	85.03	Slightly Cloudy	NM	NM
13:17	100 mL/min	6.88	87.7	6.81	502	7.7	NM	45.78	Clear	NM	NM
13:20	100 mL/min	6.92	79.7	7.09	517	7.8	NM	21.79	Clear	NM	NM
13:23	100 mL/min	6.94	75.3	7.22	523	7.9	NM	12.84	Clear	NM	NM
13:26	100 mL/min	6.95	72.1	7.35	527	7.7	NM	8.50	Clear	NM	NM
13:29	100 mL/min	6.97	70.2	7.48	526	7.7	NM	6.54	Clear	NM	NM

Other Field Measurements:P Alk: 0.0 ppm
T Alk: 291 ppm

Notes:

Deviations from SAP:
Unable to gauge water level during purging due to small diamter of well.
Turbidity did not stabilize within 10%.

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date:02/13/2024	Time:13:32	Water Level: NM	pH (S.U.):6.98	ORP (mV):68.2	Diss. Oxygen (ppm):7.66	Spec. Cond (µS/cm):524

Temperature:7.7 °C	TDS (ppm): NM	Turbidity (NTU):6.44	Color/Appearance: Clear	Odor:None	Final Volume Removed:0.5Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0041**	**Date: 02/13/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel:BDT	**Well #:RU-15 (OLN-RU015-F007)**	**Static Water Level:6.52FT TOC**	
Depth to Top of Screen: NM	**Well Diameter (in.):0.5**	**Total Well Depth: 15.00 FT TOC**	**Purge Method: Pump**
Time of Purge Initiation:06/07/2024 15:24			
☐ **dedicated**	**Date/Time of Pump Installation:02/13/2024 15:21**	**Pump Type: Peristaltic**	**Pump Depth: NM**
Water Level after Pump Installation: NM			

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (ppm)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
15:27	100 mL/min	5.88	41.5	2.35	259.2	6.6	NM	61.04	Clear	NM	NM
15:30	100 mL/min	5.89	53.0	0.55	283.8	7.2	NM	15.18	Clear	NM	NM
15:33	100 mL/min	5.90	55.4	0.25	291.7	7.4	NM	8.36	Clear	NM	NM
15:36	100 mL/min	5.90	55.6	0.33	294.3	7.4	NM	6.41	Clear	NM	NM
15:39	100 mL/min	5.93	53.7	0.34	295.5	7.3	NM	5.02	Clear	NM	NM
15:42	100 mL/min	5.95	52.5	0.32	296.4	7.3	NM	5.34	Clear	NM	NM

Other Field Measurements:P Alk: 0.00 ppm
T Alk: 63 ppm

Notes:
OLN-FD001-D007 collected at 2200

NM - Not Measured

Deviations from SAP:Unable to gauge well while purging due to small diameter of well.

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date:02/13/2024	Time:15:45	Water Level: NM	pH (S.U.):5.96	ORP (mV):50.9	Diss. Oxygen (ppm):0.30	Spec. Cond (µS/cm):296.7
Temperature:7.5 °C	TDS (ppm): NM	Turbidity (NTU):5.38	Color/Appearance: Clear	Odor:None	Final Volume Removed:0.75Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0041**	**Date: 02/13/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel:BDT	**Well #:RU-16 (OLN-RU016-F007)**	**Static Water Level:6.78FT TOC**	
Depth to Top of Screen: NM	**Well Diameter (in.):2**	**Total Well Depth: 17.18 FT TOC**	**Purge Method: Pump**
Time of Purge Initiation:06/07/2024 16:40			
☐ **dedicated**	**Date/Time of Pump Installation:02/13/2024 16:37**	**Pump Type: Peristaltic**	**Pump Depth: NM**
Water Level after Pump Installation: 6.85 FT TOC			

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (ppm)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
16:42	100 mL/min	5.88	133.2	2.10	458.7	6.6	NM	13.27	Clear	7.20	0.42
16:45	100 mL/min	5.92	132.1	0.50	462.3	6.9	NM	11.68	Clear	7.20	0.42
16:48	100 mL/min	5.92	131.3	0.19	462.5	7.0	NM	12.46	Clear	7.20	0.42
16:51	100 mL/min	5.92	130.8	0.07	463.4	6.8	NM	11.37	Clear	7.20	0.42
16:54	100 mL/min	5.92	129.3	0.07	463.7	6.7	NM	11.18	Clear	7.20	0.42
16:57	100 mL/min	5.92	127.2	0.03	463	6.8	NM	11.32	Clear	7.20	0.42

Other Field Measurements:P Alk: 0.0 ppm
T Alk: 75 ppm

Notes:
NM - Not Measured

Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date:02/13/2024	Time:17:00	Water Level:7.20FT TOC	pH (S.U.):5.91	ORP (mV):126.3	Diss. Oxygen (ppm):0.01	Spec. Cond (µS/cm):462.4
Temperature:6.8 °C	TDS (ppm): NM	Turbidity (NTU):11.26	Color/Appearance: Clear	Odor:None		Final Volume Removed:1Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0041**	**Date: 02/13/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel:BDT	**Well #:RU-27A (OLN-RU027A-F007)**	**Static Water Level:7.23FT TOC**	

Depth to Top of Screen: NM	**Well Diameter (in.):2**	**Total Well Depth: 17.80 FT TOC**	**Purge Method: Pump**	**Time of Purge Initiation:06/07/2024 14:18**
☐ **dedicated**	**Date/Time of Pump Installation:02/13/2024 14:16**	**Pump Type: Peristaltic**	**Pump Depth: NM**	**Water Level after Pump Installation: 7.25 FT TOC**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (ppm)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
14:20	100 mL/min	6.17	-18.3	2.80	827	8.6	NM	31.52	Clear	7.39	0.16
14:23	100 mL/min	6.13	-34.3	0.42	839	8.8	NM	28.89	Clear	7.40	0.17
14:26	100 mL/min	6.14	-46.9	0.06	844	8.8	NM	29.75	Clear	7.40	0.17
14:29	100 mL/min	6.14	-52.9	0.07	848	8.8	NM	26.57	Clear	7.40	0.17
14:32	100 mL/min	6.15	-59.1	0.09	855	8.7	NM	26.33	Clear	7.40	0.17
14:35	100 mL/min	6.15	-63.1	0.07	858	8.8	NM	26.45	Clear	7.40	0.17
14:38	100 mL/min	6.14	-65.9	0.07	859	8.8	NM	26.87	Clear	7.40	0.17

Other Field Measurements:P Alk: 0.0 ppm
T Alk: 381 ppm

Notes:
NM - Not Measured

Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date:02/13/2024	Time:14:41	Water Level:7.14FT TOC	pH (S.U.):6.17	ORP (mV):-67.5	Diss. Oxygen (ppm):0.07	Spec. Cond (µS/cm):864
Temperature:8.6 °C	TDS (ppm): NM	Turbidity (NTU):27.27	Color/Appearance: Clear	Odor:None		Final Volume Removed:1Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0041**	**Date: 02/13/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel:BDT	**Well #:RU-28 (OLN-RU028-F007)**	**Static Water Level:6.59FT TOC**	

Depth to Top of Screen: NM	**Well Diameter (in.):2**	**Total Well Depth: 17.93 FT TOC**	**Purge Method: Pump**	**Time of Purge Initiation:06/07/2024 12:05**
☐ dedicated	**Date/Time of Pump Installation:02/13/2024 12:05**	**Pump Type: Peristaltic**	**Pump Depth: NM**	**Water Level after Pump Installation: 6.59 FT TOC**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (ppm)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
12:09	100 mL/min	6.13	233.9	6.81	204.4	8.0	NM	6.47	Clear	6.82	0.23
12:12	100 mL/min	6.10	235.5	4.93	196.7	7.9	NM	5.31	Clear	6.98	0.39
12:15	100 mL/min	6.09	236.3	4.73	196.5	7.8	NM	5.19	Clear	7.03	0.44
12:18	100 mL/min	6.09	237.1	4.68	196.7	7.6	NM	6.24	Clear	7.05	0.46
12:21	100 mL/min	6.09	237.8	4.66	196.9	7.9	NM	6.87	Clear	7.06	0.47
12:24	100 mL/min	6.08	238.9	4.58	197.1	7.8	NM	5.88	Clear	7.06	0.47

Other Field Measurements:P Alk: 0.0 ppm
T Alk: 72 ppm

Notes:
NM - Not Measured

Deviations from SAP:
Turbidity did not stabilize within 10%.

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date:02/13/2024	Time:12:27	Water Level:7.06FT TOC	pH (S.U.):6.08	ORP (mV):239	Diss. Oxygen (ppm):4.56	Spec. Cond (µS/cm):197.8
Temperature:7.5 °C	TDS (ppm): NM	Turbidity (NTU):5.65	Color/Appearance: Clear	Odor:None		Final Volume Removed:0.5Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0041**	**Date: 02/13/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel:BDT	**Well #:18M (OLN-WW018M-F007)**	**Static Water Level: NM**	

Depth to Top of Screen: NM	**Well Diameter (in.): NM**	**Total Well Depth: NM**	**Purge Method: Spigot**	**Time of Purge Initiation:NM**
☐ dedicated	**Date/Time of Pump Installation:**	**Pump Type:**	**Pump Depth: NM**	**Water Level after Pump Installation: NM**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp.	TDS (ppm)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)	**Other Field Measurements:**
												Palk: 0.00 ppm
												Talk: 153 ppm
												Notes:
												NM - Not Measured
												Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date:02/13/2024	Time:08:00	Water Level: NM	pH (S.U.):7.45	ORP (mV):216.3	Diss. Oxygen (ppm):4.51	Spec. Cond (µS/cm):537
Temperature:11.8 °C	TDS (ppm): NM	Turbidity (NTU):0.26	Color/Appearance: Clear	Odor:None		Final Volume Removed:1Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0041**	**Date: 02/14/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel:BDT	**Well #:RU-8 (OLN-RU008-F007)**	**Static Water Level:6.77FT TOC**	

Depth to Top of Screen: NM	**Well Diameter (in.):0.5**	**Total Well Depth: 17.93 FT TOC**	**Purge Method: Pump**	**Time of Purge Initiation:06/07/2024 07:58**
☐ dedicated	**Date/Time of Pump Installation:02/14/2024 07:50**	**Pump Type: Peristaltic**	**Pump Depth: NM**	**Water Level after Pump Installation: NM**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (ppm)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
08:01	100 mL/min	6.93	171.9	1.80	649	5.8	NM	252.3	Cloudy	NM	NM
08:04	100 mL/min	6.97	168.7	1.09	658	6.0	NM	291.3	Cloudy	NM	NM
08:07	100 mL/min	7.00	166.1	0.89	671	5.2	NM	215.00	Cloudy	NM	NM
08:10	100 mL/min	7.00	164.0	0.88	679	5.7	NM	147.56	Slightly Cloudy	NM	NM
08:13	100 mL/min	7.01	163.4	0.93	681	5.5	NM	112.60	Slightly Cloudy	NM	NM
08:16	100 mL/min	7.01	162.4	1.04	685	5.9	NM	83.13	Slightly Cloudy	NM	NM
08:19	100 mL/min	7.00	161.7	1.05	689	6.3	NM	60.22	Slightly Cloudy	NM	NM
08:22	100 mL/min	7.00	161.2	1.04	690	6.5	NM	45.20	Clear	NM	NM
08:25	100 mL/min	7.00	160.7	1.04	695	6.1	NM	23.21	Clear	NM	NM
08:28	100 mL/min	6.99	160.3	0.96	695	6.6	NM	24.60	Clear	NM	NM

Other Field Measurements:P Alk: 0.0 ppm
T Alk: 240 ppm

Notes:
Collected OLN-FD002-D007 @ 2200

NM - Not Measured

Deviations from SAP:
Unable to gauge while purging due to small well diameter.

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date:02/14/2024	Time:08:31	Water Level: NM	pH (S.U.):6.99	ORP (mV):160.1	Diss. Oxygen (ppm):0.97	Spec. Cond (µS/cm):697
Temperature:6.6 °C	TDS (ppm): NM	Turbidity (NTU):23.39	Color/Appearance: Clear	Odor:None		Final Volume Removed:1.5Gallons

APPENDIX B
SIX MONTH DATA SUMMARY REPORT

DATA SUMMARY REPORT

FOR THE

OPERABLE UNIT 3 REMEDY IMPLEMENTATION
THREE-MONTH PERFORMANCE MONITORING

AT THE PARCEL B PROPERTY
IN THE ALCAS SOURCE AREA
OLEAN WELL FIELD SUPERFUND SITE
OLEAN, NEW YORK

Prepared For:

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CEC NY Project 300-082

MARCH 2025

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Attachment A – Laboratory Analytical Reports
Attachment B – Field Documentation

1.0 INTRODUCTION

On September 30, 2014, the United States Environmental Protection Agency (U.S. EPA) issued a Record of Decision for Operable Unit 3 (OU3 ROD) in which it documented its selection of remedies for the known source areas at the Olean Well Field Superfund Site (Superfund Site), including a portion of the Superfund Site known as "Parcel B of the Alcas Source Area" (Parcel B).

In February 2016, a Consent Decree (CD) was filed amending and superseding the 1998 CD requiring Alcas Cutlery Corporation (now known as Cutco Corporation) and Aluminum Company of America (now known as Arconic Corporation) to perform implementation of the remedy for Parcel B that was selected in the OU3 ROD. Pursuant to Sections VI of the 2016 CD and 7.5 of the Statement of Work (SOW), a Remedial Action Work Plan (OU3 RAWP) and supporting deliverables were required to implement the required remedial action for the operable unit. Supporting deliverables for the OU3 RAWP included a Field Sampling Plan (FSP) and Quality Assurance Project Plan (QAPP). On June 8, 2022, the U.S. EPA approved the May 27, 2022, OU3 RAWP with supporting deliverables. The FSP provided a framework for field sampling activities including groundwater performance monitoring required to implement the OU3 remedy. The objective of the QAPP was to address sample analysis and data handling so that data quality is maintained and the work is accurately completed according to the requirements in the OU3 RAWP.

Between February 12 and 14, 2024, groundwater sampling activities were performed at 13 performance monitoring wells and three sentinel monitoring wells for the purpose of six-month post-remedial action performance monitoring. Groundwater samples from the performance monitoring wells were submitted for laboratory analysis for the following:

- Volatile Organic Compounds (VOCs) (Tetrachlorethylene [PCE], Trichloroethylene [TCE], cis-1,2 Dichloroethylene [cis-1,2 DCE], trans-1,2 Dichloroethylene [trans-1,2 DCE], and Vinyl Chloride [VC]) – Method 8260C;
- Dissolved Gasses (Ethane, Ethene, and Methane) – Method RSK-175;
- Volatile Fatty Acids (Acetate, Butyrate, and Propionate) – ALS Environmental SOP for Organic Acids in Aqueous Matrices by High Performance Liquid Chromatoraphy;
- Chemical Oxygen Demand (COD) – Method 410.4;

- Sulfate- Method 300.0; and
- Dissolved Metals (Arsenic, Iron, and Manganese) – Method 6010C.

Groundwater samples from the sentinel monitoring wells were submitted for laboratory analysis of VOCs, COD, and dissolved metals. The laboratory inadvertently analyzed the sentinel wells for sulfate. Analytical results were reviewed and validated for usability with respect to the OU3 QAPP.

Data validation included an evaluation of the following:

- Chain of Custody (COC) documentation;
- Holding times;
- Surrogate recoveries;
- Matrix spike/matrix spike dilutions precision and accuracy;
- Laboratory Control Sample (LCS) recoveries;
- Laboratory method blank and trip blank contamination;
- Gas chromatograph/mass spectrometer (GC/MS) instrument performance;
- Sample result verification and identification;
- Internal standard responses;
- Initial and continuing calibrations;
- Quantitation limits; and
- Data completeness.

The following sections of this report provide a narrative discussion of the checklist, including data review and validation procedures and results.

2.0 DATA REVIEW

Aqueous samples were collected from the OU3 wells on February 12 - 14, 2024. The subcontracted analytical laboratory for this project was ALS Environmental (ALS) located in Rochester, New York. Analytical results from these samples were reviewed and validated by ALS and CEC NY.

2.1 LABORATORY DATA - FIRST LEVEL REVIEW

The laboratory analyst generating the analytical data has the prime responsibility for the correctness and completeness of the data. All laboratory data was generated and reduced following protocols specified in the appropriate U.S. EPA SW846 methods or other approved method for the analysis being performed. The review conducted by the laboratory analyst constitutes the first level review. At a minimum, the primary analyst reviews the data package to confirm that:

- Analysis information is correct and complete;
- Appropriate test method was used;
- Analytical results are correct and complete (including calculations);
- Quality control (QC) samples are within established control limits;
- Blanks are within established control limits;
- All corrections on raw data and any generated forms are appropriately documented; and
- Raw data, calculations, and results are correctly transcribed.

This review is documented by the analyst and included with the data package. In the case of work performed by subcontracted laboratories, the first level review was performed by the subcontracted laboratory, ALS.

2.2 LABORATORY DATA - SECOND LEVEL REVIEW

The laboratory conducted a secondary review of the data as an independent and detailed review to confirm that the data set is acceptable for release. The secondary review process confirms that:

- COC information is correct;
- Holding times were met (exceeded holding times, if present, are documented in the case narrative);

- Sample preparation information is correct and complete;
- Analysis information is correct and complete;
- Appropriate SOPs have been followed;
- Analytical results are correct and complete (including calculations);
- QC samples are within established control limits;
- Blanks are within established control limits;
- Special sample preparation and analytical requirements have been met;
- Documentation is complete;
- Corrections on raw data and any generated forms are appropriately documented; and
- All documents have been initialed and dated in accordance with laboratory SOPs.

The secondary review was conducted by experienced laboratory personnel who perform data review as a primary function, are organizationally separate from the operating analysts and have direct access to the laboratory's quality assurance (QA) Manager. Any errors found in this review should trigger appropriate actions resulting in the correction of the data. In the case of work performed by subcontracted laboratories, the data is reviewed and approved by the primary laboratory in a manner similar to a secondary review process. ALS confirmed that the data set is acceptable for release.

2.3 LABORATORY DATA - THIRD LEVEL REVIEW

The third level of review for laboratory data is accomplished by the Laboratory Project Manager during preparation of the final laboratory report. A Case Narrative was prepared for each Sample Delivery Group (SDG) (or equivalent) as documentation of the review. This narrative includes comments as appropriate for the proper interpretation of the data as reported. The signature of the laboratory Project Manager, laboratory director, or designated senior QA staff on each SDG report constitutes acceptance and release of the report from the third level review.

The sampling event included one Sample Delivery Group: R2401280.

2.3.1 Third Level Review for SDG R2401280

According to the Case Narrative SDG R2401280, all analyses were performed consistent with the quality assurance program of ALS. The Case Narrative included the following details:

- Sample Receipt: Twenty-four (24) water samples were received for analysis at ALS Environmental on 2/15/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at a minimum in accordance with the analytical method requirements.
- Trip blank sample OLN-TB004-T007 was not received by the lab so the analysis was cancelled.
- Volatiles by GC/MS: Method 8260C: No significant anomalies were noted with the analysis.
- Semivolatiles by GC: No significant anomalies were noted with the analysis.
- Dissolved Metals: Method 6010C: No significant anomalies were noted with the analysis.
- General Chemistry: Method 300.0 and Method 410.4: No significant anomalies were noted with the analysis.

The signature of ALS staff on the SDG report constitutes acceptance and release of the report from the third level review. A copy of the laboratory report is presented in Attachment A.

2.4 COMPLIANCE REVIEW

A basic Compliance Review was conducted by CEC NY to confirm completeness and deliverable compliance with method and contractual requirements for each SDG submitted by the laboratory. This review was conducted primarily to confirm contractual compliance by the laboratory and includes the following:

- Comparison of the laboratory work request and chain-of-custody information with the submitted results;
- Verification of holding times for each sample and analytical fraction; and
- Verification of the report delivery within the contractual window.

The data package deliverable format for chemical analytical data includes:

- Title page and table of contents
- Sample control data
  - Chain-of-custody documents
  - Shipping Form
- Case narrative - nonconformance summary report
- Analysis data sheet (for each sample in SDG):
  - Information similar to CLP Form I
  - Method detection/reporting limit
  - Quality control summary
  - Reagent blank summary

    - Duplicate summary including relative percent difference (when specified)
    - MS/MSD summary including percent recovery (when specified)
    - Calibration summary
- Raw QC and standards data
    - Initial calibration data
    - Continuing calibration data (where specified by method)
    - Reagent blank data
    - Matrix spike data
    - Duplicate data
    - Raw sample data

The samples included in the SDG were prepared and analyzed for volatiles by GC/MS using Method SW-846 8260C, dissolved gases using Method RSK-175, volatile fatty acids by ALS internal SOP for organic acids by High Performance Liquid Chromatography (HPLC), dissolved metals using Method SW-846 6010C, sulfate using Method 300.0, and chemical oxygen demand using Method 410.4. The laboratory data were reviewed and qualified with the following flags:

- U – Indicates the compound was analyzed for but not detected;
- J – Analyte detected at levels less than the Method Reporting Limit (MRL) and greater than or equal to the Method Detection Limit (MDL). Concentration within this range indicates an estimated value;
- E – (Organics) Indicates has exceeded the calibration range for the specific analysis; and
- D - Concentration is the result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.

2.4.1 Compliance Review for SDG R2401280

Samples included in SDG R2401280 were collected, properly preserved, shipped under a completed, COC record, and received at ALS within three days of sampling. All holding times were met. All samples were received intact at ALS and within the required temperature range.

The data package received from ALS was paginated and of good quality. The serial dilution sample summary and post digestion spike summary for the dissolved metals analysis were inadvertently omitted from the data package. The completed data package was reissued on June 11, 2024. The analytical data were 100 percent complete and usable.

2.5 FIELD DATA REVIEW

The tables and logs compiled by the field personnel and used as the basis for data interpretation were checked against the original field documentation prior to inclusion in the report. CEC NY was responsible for performing this review activity. A copy of the field documentation for these samples is presented in Attachment B.

3.0 DATA VALIDATION

Data validation is the process of reviewing data and accepting, qualifying, or rejecting it on the basis of criteria using established U.S. EPA guidelines. The data validation uses a narrative version of a data validation checklist adapted from historic CLP data validation practices in conjunction with data summary tables generated from the project database. Validation of analytical data was conducted by CEC NY.

A Stage 2B validation was performed on the subject laboratory report(s), in accordance with the January 2009 *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* as prepared by U.S. EPA. Analytical data were evaluated in general accordance with the January 2022 *Final Quality Assurance Project Plan, Operable Units 2 and 3 at the Alcas Source Area, Olean Well Field Superfund Site, Olean, New York* as prepared by Civil & Environmental Consultants of New York, Inc., the November 2020 *National Functional Guidelines for Organic Superfund Methods Data Review* as prepared by U.S. EPA, and the November 2020 *National Functional Guidelines for Inorganic Superfund Methods Data Review* as prepared by U.S. EPA.

The following laboratory deliverables were evaluated during the review process:

- Chain-of-custody (COC) documentation to assess holding times and verify report completeness;
- Laboratory quality control (QC) sample results, including method blanks, surrogate spikes, internal standards, laboratory control sample/laboratory control sample duplicates (LCS/LCSDs), matrix spike/matrix spike duplicates (MS/MSDs), and laboratory duplicates;
- Instrument calibration and performance checks; and
- Field QC samples to assess trip blank cleanliness and field duplicate precision.

3.1 DATA VALIDATION FINDINGS FOR SDG R2401280

3.1.1 Custody, Preservation, and Completeness

Acceptable: Sample custody was maintained from sample collection to receipt at the laboratory. The samples were received intact and were properly preserved. The reports are complete and contain results for the samples and tests requested on the COC forms, except OLN-TB004-T007 which was inadvertently added to the COC by the field team and was not received by the laboratory.

3.1.2 Volatile Organic Analyses

The field samples and QC samples were analyzed for the OU3-specific VOCs by Method 8260C at the ALS - Rochester, New York laboratory.

3.1.2.1 Holding Times

Acceptable: The samples were analyzed within the QAPP holding time of 14 days.

3.1.2.2 Instrument Tuning and Mass Calibration

Acceptable: The tuning compound bromofluorobenzene was analyzed at the required frequency by the laboratory. The relative abundance values are within the laboratory limits.

3.1.2.3 Initial Calibration

Acceptable: Initial calibrations were analyzed at the required frequency by the laboratory. The QAPP criterion of relative standard deviation (RSD) values less than or equal to 15 percent was met in all initial calibrations. The relative response factors are greater than the QAPP criterion of the method.

3.1.2.4 Calibration Verification

Acceptable: Calibration verification standards were analyzed at the required frequency by the laboratory. The QAPP criterion of percent difference values less than or equal to 20 percent and

relative response factors greater than the minimum response factors per Table 4 of EPA Method 8260C was met in each verification.

3.1.2.5 Blank Analyses

Method Blanks

Acceptable: Method blanks were analyzed by the laboratory at the required frequency as described in the QAPP. Target VOCs were not quantified above the MDL.

Trip Blanks

Acceptable: The QAPP requires trip blanks to be collected each day a field sample is collected. Three trip blanks associated with the sampling event are included in SDG R2401280. Target VOCs were not quantified above the RL in the trip blanks.

3.1.2.6 Surrogate Analyses

Acceptable: Surrogate compounds were added to the samples, blanks, and QC samples as required. The recovery values were within the laboratory control limits.

3.1.2.7 Laboratory Control Sample Analyses

Acceptable: ALS analyzed LCSs at the required frequency. The recovery and relative percent difference (RPD) values were within the laboratory control limits.

3.1.2.8 Matrix Spike/Matrix Spike Duplicate Analyses

Acceptable with Discussion: MS/MSDs were reported as required. The recovery and RPD values were within the laboratory control limits. MS/MSD data are presented in the laboratory analytical report for information purposes. The laboratory evaluates system performance based on the LCS control limits.

3.1.2.9 Internal Standard Evaluation

Acceptable: Internal standards were added to the samples, blanks, and QC samples as required. The recovery and retention time criteria were met.

3.1.2.10 Laboratory Reporting Limits

Acceptable with Discussion: Laboratory Method Reporting Limits (MRLs) listed in the QAPP were met except in cases where dilution was required. The QAPP notes that MRLs are not adjusted for dilution.

3.1.2.11 Overall Assessment of Data Usability

The usability of the data is based on the QAPP and U.S. EPA guidance documents noted previously. Upon consideration of the information presented here, the data are acceptable for their intended use.

3.1.3 Volatile Fatty Acids Analyses

The field samples and QC samples were analyzed for volatile fatty acids (acetate, propionate, and butyrate) using HPLC at the ALS - Rochester, New York laboratory.

3.1.3.1 Holding Times

Acceptable: The samples were analyzed within the QAPP holding time of 28 days.

3.1.3.2 Initial Calibration Verification

Acceptable: Initial calibration verification standards were analyzed at the required frequency by the laboratory. The QAPP criterion of no more than ±30 percent difference from true values were met in all cases.

3.1.3.3 Calibration Verification

Acceptable: Calibration verification standards were analyzed at the required frequency by the laboratory. The QAPP criterion of no more than ±20 percent difference from true values were met in all cases.

3.1.3.4 Blank Analyses

Acceptable: Method blanks were analyzed by the laboratory at the required frequency as described in the QAPP. Target volatile fatty acids were not quantified above the MDL in any method blank.

3.1.3.5 Laboratory Control Sample Analyses

Acceptable: ALS analyzed LCSs at the required frequency. The recovery and relative percent difference (RPD) values were within the laboratory control limits for all LCSs.

3.1.3.6 Matrix Spike/Matrix Spike Duplicate Analyses

Acceptable: MS/MSDs were reported as required. The recovery and RPD values were within the laboratory control limits. MS/MSD data are presented in the report for information purposes. The laboratory evaluates system performance based on the LCS control limits.

3.1.3.7 Laboratory Reporting Limits

Acceptable with Discussion: Laboratory Method Reporting Limits (MRLs) listed in the QAPP were met except in cases where dilution was required. The QAPP notes that MRLs are not adjusted for dilution

3.1.3.8 Overall Assessment of Data Usability

The usability of the data is based on the QAPP and U.S. EPA guidance documents noted previously. Upon consideration of the information presented here, the data are acceptable for their intended use.

3.1.4 Dissolved Gases Analyses

The field samples and QC samples were analyzed for dissolved gases (ethane, ethene, and methane) using Method RSK-175 at the ALS - Rochester, New York laboratory.

3.1.4.1 Holding Times

Acceptable: The samples were analyzed within the QAPP holding time of 14 days.

3.1.4.2 Initial Calibration Verification

Acceptable: Initial calibration verification (ICV) standards were analyzed at the required frequency by the laboratory. The QAPP criterion of 85 to 115 percent recovery were met for each ICV.

3.1.4.3 Continuing Calibration Verification

Acceptable: Continuing calibration verification (CCV) standards were analyzed at the required frequency by the laboratory. The QAPP criterion of 15 percent difference were met for all CCVs.

3.1.4.4 Blank Analyses

Acceptable: Method blanks were analyzed by the laboratory at the required frequency as described in the QAPP. Target dissolved gases were not quantified above the MDL in any method blanks.

3.1.4.5 Matrix Spike/Matrix Spike Duplicate Analyses

Acceptable: MS/MSDs were reported as required. The precent recovery and RPD values were within the laboratory control limits in all instances. Matrix Spike and Matrix Spike Duplicate Data are presented in the report for information purposes. The laboratory evaluates system performance based on the LCS control limits.

3.1.4.6 Laboratory Reporting Limits

Acceptable with Discussion: Laboratory Method Reporting Limits (MRLs) listed in the QAPP were met except in cases where dilution was required. The QAPP notes that MRLs are not adjusted for dilution

3.1.4.7 Overall Assessment of Data Usability

The usability of the data is based on the QAPP and U.S. EPA guidance documents noted previously. Upon consideration of the information presented here, the data are acceptable for their intended use.

3.1.5 Metals Analyses

The field samples and QC samples were analyzed for dissolved metals (arsenic, iron, and manganese) by Method 6010C at the ALS - Rochester, New York Laboratory.

3.1.5.1 Holding Times

Acceptable: The samples were analyzed within the QAPP holding time of 180 days from sample collection for metals.

3.1.5.2 Initial Calibration

Acceptable: Initial calibration and detection limit standards were analyzed daily prior to analysis. The QAPP linearity criterion of correlation coefficient greater than or equal to 0.998 was met for all initial calibrations.

3.1.5.3 Calibration Verifications

Acceptable: Initial calibration verification (ICV) standards and continuing calibration verification (CCV) standards were analyzed at the required frequency. The QAPP criterion of 90 to 110 percent recovery was met in all cases.

3.1.5.4 Blank Analyses

Calibration Blanks

Acceptable: Initial and continuing calibration blanks were analyzed at the required frequency. Target metals were not detected above the MDLs in the calibration blanks.

Method Blanks

Acceptable: Method blanks were analyzed at the required frequency of one per digestion batch. Target metals were not detected above the MDLs in the method blanks.

3.1.5.5 ICP Interference Check

Acceptable: ICP interference check samples were analyzed at the required frequency. The recovery values of spiked metals were within the QAPP criterion of 80 to 120 percent. The non-spiked metals had absolute values less than the MDL.

3.1.5.6 Laboratory Control Sample Analyses

Acceptable: LCSs were analyzed at the required frequency of one per digestion batch. The recovery values were within the laboratory control limits of 80 to 120 percent. The RPD values were within the laboratory control limits of less than 20 percent.

3.1.5.7 Matrix Spike/Matrix Spike Duplicate Analyses

Acceptable: MS/MSDs were reported as required. The recovery values were within the QAPP criterion of 75 to 125 percent and the RPD values were within the laboratory control limits.

3.1.5.8 ICP Serial Dilution Analysis

Acceptable: Serial dilutions were performed at a frequency of one per batch. The criterion of percent difference values less than 10 percent for results greater than 50 times the MDL was met for all analyses.

3.1.5.9 Laboratory Reporting Limits

Acceptable with Discussion: Laboratory Method Reporting Limits (MRLs) listed in the QAPP were met except in cases where dilution was required. The QAPP notes that MRLs are not adjusted for dilution

3.1.5.10 Overall Assessment of Data Usability

The usability of the data is based on the QAPP and U.S. EPA guidance documents noted previously. Upon consideration of the information presented here, the data are acceptable for their intended use.

3.1.6 General Chemistry Analyses

The field samples and QC samples were analyzed for sulfate using Method 300.0 and COD using Method 410.4 at the ALS - Rochester, New York laboratory.

3.1.6.1 Holding Times

Acceptable: The samples were analyzed within the QAPP holding time of 28 days.

3.1.6.2 Initial Calibration

Acceptable: Initial calibrations were analyzed at the required frequency by the laboratory.

3.1.6.3 Calibration Verification

Acceptable: Calibration verification standards were analyzed at the required frequency by the laboratory. The laboratory criterion of 90 to 110 percent recovery was met in all cases.

3.1.6.4 Blank Analyses

Method Blanks

Acceptable: Method blanks were analyzed by the laboratory at the required frequency as described in the QAPP. Target compounds were not quantified above the MRL in any method blanks.

Continuing Calibration Blank

Acceptable: Continuing Calibration Blanks (CCBs) were analyzed by the laboratory at the required frequency as described in the QAPP. Target compounds were not quantified above the MRL in any CCB.

3.1.6.5 Laboratory Control Sample Analyses

Acceptable: ALS analyzed LCSs at the required frequency. The recovery and RPD values were within the laboratory control limits for all LCSs.

3.1.6.6 Matrix Spike/Matrix Spike Duplicate Analyses

Acceptable with Discussion: MS/MSDs were reported as required. The recovery and RPD values were within the laboratory control limits, except as discussed below. MS/MSD data is presented in the laboratory analytical report for information purposes. The laboratory evaluates system performance based on the LCS control limits.

- Chemical oxygen demand: MS/MSD values were below the laboratory control limits of 90 to 110 percent recovery for the samples associated with OLN-RU-009-F007 and OLN-RU020-F007.
- Sulfate: MS/MSD values were below the laboratory control limits of 90 to 110 percent recovery for the sample associated with OLN-FD002-D007

3.1.6.7 Laboratory Reporting Limits

Acceptable with Discussion: Laboratory Method Reporting Limits (MRLs) listed in the QAPP were met except in cases where dilution was required. The QAPP notes that MRLs are not adjusted for dilution

3.1.6.8 Overall Assessment of Data Usability

The usability of the data is based on the QAPP and U.S. EPA guidance documents noted previously. Upon consideration of the information presented here, the data are acceptable for their intended use.

4.0 DATA USABILITY

The following data quality indicators were evaluated to determine the usability of the analytical results: precision, accuracy, representativeness, completeness, and comparability. These data quality indicators are applicable to both field and laboratory procedures. Each of the data quality indicators are discussed briefly in the following subsections.

4.1 PRECISION

Precision is a measure of the reproducibility of analyses under a given set of conditions (i.e., the degree to which two or more measurements are in agreement). Precision evaluates how far different individual reported values are from the average or mean. Precision is thus a measure of the magnitude of random error and is expressed as the relative percent difference (RPD). The lower the RPD value, the more precise (i.e., reproducible) the data.

Precision is evaluated using the RPD, which is determined according to the following equation:

$$RPD = \frac{|Value\ 1 - Value\ 2|}{Arithmetic\ Mean\ of\ Value\ 1\ and\ 2}\ x\ 100$$

This equation above is appropriate when the analytical results are greater than 5 times the reporting limit (RL). Acceptable precision for field duplicates in groundwater is typically RPD < 25-percent. For results that are near the limit of quantitation, acceptable precision is achieved when the absolute value of the difference between Value 1 and Value 2 is within 2 times the RL. For results that are reported between the RL and the method detection limit (MDL), precision is considered poor by definition (i.e., the results are considered qualitatively acceptable in that a constituent can be identified, but are quantitatively suspect since the concentration cannot be accurately quantified). For this reason, results between the RL and MDL are flagged with the qualifier "J," indicating they are estimated.

Precision for groundwater samples was evaluated using the analytical results for two (2) samples and respective duplicate samples. The precision determination for each duplicate sample is discussed below.

4.1.1 Precision for Duplicate Sample OLN-FD001-D007

Duplicate sample OLN-FD001-D007 is associated with sample OLN-RU015-F007. Sample results and calculated RPD values are summarized in Table 1.

Of the parameters analyzed, the following constituents had an estimated concentration with results between the MDL and the RL (or J-flagged): trans-1,2-DCE. The precision of these constituents is considered poor by definition, and the analytical results are not considered precise.

The following constituent had a quantifiable concentration that met the precision criterion of an RPD < 25-percent: cis-1,2-DCE, TCE, methane, dissolved iron, dissolved manganese, sulfate, and COD. VC had quantifiable concentrations that met the precision criterion of the absolute difference being within two times the RL. Therefore, these analytical results are considered precise.

4.1.2 Precision for Duplicate Sample OLN-FD002-D007

Duplicate sample OLN-FD002-D007 is associated with sample OLN-RU008-F007. Sample results and calculated RPD values are summarized in Table 1.

Of the parameters analyzed, the following constituents had estimated concentrations with results between the MDL and the RL (or J-flagged) in either the field sample or duplicate sample: PCE, VC, and COD. The precision of these constituents is considered poor by definition, and the analytical results are not considered precise.

The following constituents had quantifiable concentrations that met the precision criterion of an RPD <25-percent: TCE, dissolved manganese, and sulfate. The following constituents had

quantifiable concentrations that met the precision criterion of the absolute difference being within two times the RL: cis-1,2-DCE and methane. These analytical results are considered precise.

4.2 ACCURACY

Accuracy is a measure of the bias that exists in a measurement system (i.e., the degree of agreement between an observed value and a reference or true value). Accuracy measures the average or systematic error of a measurement method or sampling method. Accuracy in the field is determined through the collection of blanks and review of the results for evidence of sample contamination stemming from field activities or sample transport.

Three trip blanks, two field blanks, and one equipment blank were analyzed as part of this Project. Trip blank, field blank, and equipment blank analytical results are summarized in Table 2.

VOCs, fatty acids, and dissolved metals were not quantified or estimated in the equipment blanks, trip blanks, and field blanks. Dissolved gases and sulfate were not quantified or estimated in the field blanks. COD was not quantified or estimated in the equipment blank. Note that field blank OLN-FB001-B007 (collected 2/12/2024) was analyzed for VOCs, dissolved metals, sulfate and COD only. Two field samples were collected on 2/12/2024: OLN-CW013-F007 and OLN-CW13A-F007. Sentinel wells CW-13 and CW-13A were not analyzed for dissolved gases or fatty acids. Therefore, the field blank collected in association with CW-13 and CW-13A was not analyzed for those constituents.

Dissolved methane was estimated in the equipment blank OLN-EB001-E007 at a concentration of 0.0032 mg/L. Of the twelve field samples analyzed for dissolved gases, dissolved methane was quantified at concentrations between 0.0092 mg/L and 12 mg/L in eight of the field samples. Since the reported concentrations in the field samples are greater than the RL and the concentration reported in the equipment blank is estimated, no further qualification is required. Dissolved methane was estimated in two field samples (0.0049 mg/L at OLN-RU011-F007 and 0.0031 mg/L at OLN-RU028-F007). Since the concentrations reported in the two field samples and the

equipment blank are less than the RL, the reported concentrations of dissolved methane in OLN-RU011-F007 and OLN-RU028-F007 have been adjusted to the RL with a "U" flag.

Sulfate was reported at an estimated concentration of 0.5 mg/L in the equipment blank OLN-EB001-E007. Sulfate was quantified in fourteen of the fifteen field samples at concentrations between 9.6 mg/L and 370 mg/L. The concentrations reported in these field samples are greater than the RL and no qualification is required. Sulfate was not quantified above the RL in field sample OLN-RU27A-F007, and no further qualification is required.

COD was reported at an estimated concentration of 3.8 mg/L in OLN-FB001-B007 (collected 2/12/2024) and 4.8 mg/L in OLN-FB002-B007 (collected 2/13/2024). COD was not quantified above the RL in OLN-FB003-B007 (collected 2/14/2024). In the associated field samples collected on 2/12/2024, COD was quantified at 13.2 mg/L in OLN-CW013-F007 and 22.6 mg/L at CW-13A-F007. Since the reported concentrations are greater than the RL, and the concentration reported in the field blank was estimated, no further qualification is required. COD was quantified in nine of the eleven field samples collected on 2/13/2024 at concentrations between 6.2 mg/L and 749 mg/L. Since the concentrations in the field samples are greater than the RL, no further qualification is required. COD was estimated in one field sample collected on 2/13/2024, OLN-RU011-F007, at a concentration of 4.8 mg/L. Since the reported concentrations in OLN-RU011-F007 and the field blank are less than the RL, the reported concentration at OLN-RU011-F007 has been adjusted to the RL with a "U" flag.

4.3 REPRESENTATIVENESS

Representativeness expresses the degree to which data accurately and precisely represent the environmental condition. Representativeness is accomplished by maintaining sample integrity with appropriate preservation and meeting technical holding times and by collecting a statistically significant number of samples. Field representativeness is dependent upon the proper design of the sampling program and is satisfied by following proper sampling techniques.

Field work was conducted in accordance with the January 2022 *Final Field Sampling Plan Operable Units 2 and 3 at the Alcas Source Area, Olean Well Field Superfund Site, Olean, New York* (FSP) as prepared by Civil & Environmental Consultants of New York, Inc. Samples were collected using laboratory provided containers, preserved in a cooler on ice, and were immediately delivered to the laboratory within specified hold times. All samples were analyzed within the method specified holding time. The samples were collected using consistent and appropriate sampling techniques. Based on the above, the analytical results are considered to be representative.

4.4 COMPLETENESS

Completeness is the measurement of the amount of valid data obtained from a measurement system compared to the amount that was expected to be obtained under "normal" conditions. Completeness establishes whether a sufficient number of valid measurements were obtained. The closer this value is to 100, the more complete the measurement process. Data rejected, whether due to sampling design error, measurement error, or bias or sample matrix interferences, are considered invalid measurements. The following formula was used to estimate completeness:

$$Percent\ Completeness = \frac{V}{T}\ x\ 100$$

Where:

V = number of measurements judged valid

T = total number of measurements

The field completeness objective for this project is greater than 90%.

All proposed sampling points were collected, with the exception of RU-10. The amendment which was injected into the EAB treatment area in June 2023 was present within the screened interval of RU-10, and the well was not sampled. No data were rejected due to sampling design error, measurement error, or bias or sample matrix interferences. Since fifteen out of sixteen samples were collected and no data was considered invalid, the dataset is considered to be 94% complete, which meets the field completeness objective.

4.5 COMPARABILITY

Comparability expresses the confidence with which one set of data can be compared to another. It is a qualitative measurement to ensure sampling and analytical procedures are consistent within and between data sets, such as split sampling or monitoring. Analytical data is comparable when similar sampling, analytical methods, and reporting limits are consistently used for assessments of water quality. Comparability was controlled by requiring the use of specific nationally-recognized analytical methods and requiring consistent method performance criteria.

Sampling was conducted in accordance with the FSP. The sampling event followed sampling procedures employed previously and utilized the same laboratory for analysis via consistent analytical methods. Because of this, the sampling procedures between sample locations and across different sampling events were consistent. Thus, the data sets discussed above are considered comparable.

5.0 SUMMARY

CEC NY completed a data review of the aqueous samples data packages prepared by ALS. Based on the data review and validation evaluation, the data were considered to be sufficiently compliant and acceptable in accordance with validation protocols. The quality assurance objectives for data included considerations for precision, accuracy, representativeness, completeness and comparability. The data were 94 percent complete with all data considered usable. The specific samples, the analyses performed, and a usability summary are presented in Table 3.

TABLES

TABLE 1 (Page 1 of 2)
REPLICATE GROUNDWATER ANALYTICAL RESULTS
OPERABLE UNIT 3 IN THE ALCAS SOURCE AREA
OLEAN WELL FIELD SUPERFUND SITE
OLEAN, NEW YORK

OPERABLE UNIT 3 OLEAN WELL FIELD SUPERFUND SITE OLEAN, NEW YORK DATA SUMMARY REPORT SIX MONTH PERFORMANCE MONITORING		SAMPLE ID:	OLN-RU015-F007	OLN-FD001-D007 (Field Duplicate)	Estimated Value - Precision Poor By Definition	Precision Evaluation Using RPD or RL	Absolute Value Difference	Meets Precision Criteria Using 2X RL	RPD	Meets Precision Criteria Using RPD
		LAB ID:	-013	-015						
		SOURCE:	ALS	ALS						
		SDG:	R2401280	R2401280						
		MATRIX:	Water	Water						
Validated Data		SAMPLED:	2/13/2024	2/13/2024						
		ANALYZED:	2/25/2024	2/25/2024						
		DILUTION FACTOR:	1	1						
CAS NO.	**CONSTITUENT**	**UNITS**								
127-18-4	Tetrachloroethene	mg/l	<0.001	<0.001		--	--	--	--	--
79-01-6	Trichloroethene	mg/l	**0.0058**	**0.0062**		RPD	--	--	6.67	YES
156-59-2	cis-1,2-Dichloroethene	mg/l	**0.0064**	**0.0066**		RPD	--	--	3.08	YES
156-60-5	trans-1,2-Dichloroethene	mg/l	**0.00039 J**	**0.00045 J**	YES	--	--	--	--	--
75-01-4	Vinyl chloride	mg/l	**0.0017**	**0.0017**		RL	0.0	YES	--	--
74-84-0	Ethane	mg/l	<0.0052	<0.0052		--	--	--	--	--
74-85-1	Ethene	mg/l	<0.005	<0.005		--	--	--	--	--
74-82-8	Methane	mg/l	**0.061**	**0.064**		RPD	--	--	4.80	YES
64-19-7	Acetic Acid	mg/l	<1	<1		--	--	--	--	--
107-92-6	Butanoic Acid (Butyric Acid)	mg/l	<10	<10		--	--	--	--	--
79-09-4	Propionic Acid	mg/l	<2	<2		--	--	--	--	--
7440-38-2	Arsenic, Dissolved	mg/l	<0.01	<0.01		--	--	--	--	--
7439-89-6	Iron, Dissolved	mg/l	**5.49**	**5.47**		RPD	--	--	0.36	YES
7439-96-5	Manganese, Dissolved	mg/l	**1.17**	**1.17**		RPD	--	--	0.00	YES
14808-79-8	Sulfate	mg/l	**28.5**	**28.2**		RPD	--	--	1.06	YES
NA	Chemical Oxygen Demand	mg/l	**27.3**	**26.2**		RPD	--	--	4.11	YES

Qualifiers:

J - Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the Method Reporting Limit (MRL) and the Method Detection Limit (MDL).

D - Concentration is a result of a dilution.

Notes:

Bolded values were detected at concentrations above the Method Detection Limit (MDL).

RL - Reporting Limit

RPD - Relative Percent Difference

mg/l - Milligrams per liter

TABLE 1 (Page 2 of 2)
REPLICATE GROUNDWATER ANALYTICAL RESULTS
OPERABLE UNIT 3 IN THE ALCAS SOURCE AREA
OLEAN WELL FIELD SUPERFUND SITE
OLEAN, NEW YORK

OPERABLE UNIT 3 OLEAN WELL FIELD SUPERFUND SITE OLEAN, NEW YORK DATA SUMMARY REPORT SIX MONTH PERFORMANCE MONITORING		SAMPLE ID:	OLN-RU008-F007	OLN-FD002-D007 (Field Duplicate)	Estimated Value - Precision Poor By Definition	Precision Evaluation Using RPD or RL	Absolute Value Difference	Meets Precision Criteria Using 2X RL	RPD	Meets Precision Criteria Using RPD
		LAB ID:	-023	-025						
		SOURCE:	ALS	ALS						
		SDG:	R2401280	R2401280						
		MATRIX:	Water	Water						
Validated Data		SAMPLED:	2/15/2024	2/15/2024						
		ANALYZED:	2/25/2024	2/25/2024						
		DILUTION FACTOR:	1	1						
CAS NO.	CONSTITUENT	UNITS								
127-18-4	Tetrachloroethene	mg/l	**0.00027 J**	<0.001	YES	--	--	--	--	--
79-01-6	Trichloroethene	mg/l	**0.15**	**0.15**		RPD	--	--	0	YES
156-60-5	cis-1,2-Dichloroethene	mg/l	**0.0038**	**0.0036**		RL	0.002	YES	--	--
156-59-2	trans-1,2-Dichloroethene	mg/l	<0.001	<0.001		--	--	--	--	--
75-01-4	Vinyl chloride	mg/l	**0.00027 J**	**0.00026 J**	YES	--	--	--	--	--
74-84-0	Ethane	mg/l	<0.0052	<0.0052		--	--	--	--	--
74-85-1	Ethene	mg/l	<0.005	<0.005		--	--	--	--	--
74-82-8	Methane	mg/l	**0.0092**	**0.0053**		RL	0.0039	YES	--	--
64-19-7	Acetic Acid	mg/l	<1	<1		--	--	--	--	--
107-92-6	Butanoic Acid (Butyric Acid)	mg/l	<10	<10		--	--	--	--	--
79-09-4	Propionic Acid	mg/l	<2	<2		--	--	--	--	--
7440-38-2	Arsenic, Dissolved	mg/l	<0.01	<0.01		--	--	--	--	--
7439-89-6	Iron, Dissolved	mg/l	<0.1	<0.1		--	--	--	--	--
7439-96-5	Manganese, Dissolved	mg/l	**0.234**	**0.232**		RPD	--	--	0.858	YES
14808-79-8	Sulfate	mg/l	**35.9**	**35.3**		RPD	--	--	1.69	YES
NA	Chemical Oxygen Demand	mg/l	<5	**3.8 J**	YES	--	--	--	--	--

Qualifiers:

J - Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the Method Reporting Limit (MRL) and the Method Detection Limit (MDL).

D - Concentration is a result of a dilution.

Notes:

Bolded values were detected at concentrations above the Method Detection Limit (MDL).

RL - Reporting Limit

RPD - Relative Percent Difference

mg/l - Milligrams per liter

TABLE 2
SUMMARY OF BLANK ANALYTICAL RESULTS
OPERABLE UNIT 2 IN THE ALCAS SOURCE AREA
OLEAN WELL FIELD SUPERFUND SITE
OLEAN, NEW YORK

OPERABLE UNIT 3 OLEAN WELL FIELD SUPERFUND SITE OLEAN, NEW YORK DATA SUMMARY REPORT SIX MONTH PERFORMANCE MONITORING		**SAMPLE ID:**	**OLN-EB001-E007 (Equipment Blank)**	**OLN-FB001-B007 (Field Blank)**	**OLN-FB002-B007 (Field Blank)**	**OLN-FB003-B007 (Field Blank)**	**OLN-TB001-T007 (Trip Blank)**	**OLN-TB002-T007 (Trip Blank)**	**OLN-TB003-T007 (Trip Blank)**
		LAB ID:	-020	-004	-012	-024	-001	-005	-007
		SOURCE:	ALS	ALS	ALS	ALS	ALS	ALS	ALS
		SDG:	R2401280	R2401280	R2401280	R2401280	R2401280	R2401280	R2401280
		MATRIX:	Water	Water	Water	Water	Water	Water	Water
Validated Data		**SAMPLED:**	2/13/2024	2/12/2024	2/13/2024	2/14/2024	2/12/2024	2/13/2024	2/14/2024
		ANALYZED:	2/25/2024	2/23/2024	2/23/2024	2/26/2024	2/25/2024	2/23/2024	2/23/2024
		DILUTION FACTOR:	1	1	1	1	1	1	1
CAS NO.	**CONSTITUENT**	**UNITS**							
127-18-4	Tetrachloroethene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
79-01-6	Trichloroethene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
156-59-2	cis-1,2-Dichloroethene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
156-60-5	trans-1,2-Dichloroethene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
75-01-4	Vinyl chloride	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
74-84-0	Ethane	mg/l	< 0.0052	NA	< 0.0052	< 0.0052	NA	NA	NA
74-85-1	Ethene	mg/l	< 0.0050	NA	< 0.0050	< 0.0050	NA	NA	NA
74-82-8	Methane	mg/l	**0.0032 J**	NA	< 0.0052	< 0.0052	NA	NA	NA
64-19-7	Acetic Acid	mg/l	< 1	NA	< 1	< 1	NA	NA	NA
107-92-6	Butanoic Acid (Butyric Acid)	mg/l	< 10	NA	< 10	< 10	NA	NA	NA
79-09-4	Propionic Acid	mg/l	< 2	NA	< 2	< 2	NA	NA	NA
7440-38-2	Arsenic, Dissolved	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	NA	NA	NA
7439-89-6	Iron, Dissolved	mg/l	< 0.1	< 0.1	< 0.1	< 0.1	NA	NA	NA
7439-96-5	Manganese, Dissolved	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	NA	NA	NA
14808-79-8	Sulfate	mg/l	**0.5 J**	< 2.0	< 2.0	< 2.0	NA	NA	NA
NA	Chemical Oxygen Demand	mg/l	< 5.0	**3.8 J**	**4.8 J**	< 5.0	NA	NA	NA

Qualifiers:

J - Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the Method Reporting Limit (MRL) and the Method Detection Limit (MDL).

B - Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

Notes:

Bolded values were detected at concentrations above the Method Detection Limit (MDL).

mg/l - Milligrams per liter.

NA - Not analyzed.

TABLE 3
SUMMARY OF SAMPLE ANALYSES AND USABILITY
OPERABLE UNIT 2 IN THE ALCAS SOURCE AREA
OLEAN WELL FIELD SUPERFUND SITE
OLEAN, NEW YORK

OPERABLE UNIT 3 **OLEAN WELL FIELD SUPERFUND SITE** **OLEAN, NEW YORK** **DATA SUMMARY REPORT** **SIX MONTH PERFORMANCE MONITORING**								
Validated Data								
Sample ID	**Matrix**	**Sample Date**	**8260C**	**RSK175**	**VFAs**	**6010C/7470A**	**300.0**	**410.4**
OLN-RU008-F007	Water	2/14/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-RU009-F007	Water	2/13/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-RU011-F007	Water	2/13/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-RU015-F007	Water	2/13/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-RU016-F007	Water	2/13/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-RU019-F007	Water	2/13/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-RU020-F007	Water	2/13/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-RU021-F007	Water	2/13/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-RU028-F007	Water	2/13/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-RU27A-F007	Water	2/13/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-UA002-F007	Water	2/13/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-UA003-F007	Water	2/14/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-CW013-F007	Water	2/12/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-CW13A-F007	Water	2/12/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-WW18M-F007	Water	2/13/2024	Usable	Usable	Usable	Usable	Usable	Usable
		Total Samples	15	15	15	15	15	15

ATTACHMENT A
LABORATORY ANALYTICAL REPORT

June 11, 2024 Service Request No:R2401280

Michael Worden
Civil & Environmental Consultants, Incorporated (CEC)
2704 Cherokee Farm Way
Suite 101
Knoxville, TN 37920

Laboratory Results for: Olean OU3 - 6 Month Sampling 2024

Dear Michael,

Enclosed are the results of the sample(s) submitted to our laboratory February 15, 2024
For your reference, these analyses have been assigned our service request number **R2401280.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

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OLN-RU019-F007 - GenChem 2005

OLN-RU021-F007 - GenChem 2006

OLN-UA002-F007 - GenChem 2007

OLN-EB001-E007 - GenChem 2008

OLN-UA003-F007 - GenChem 2009

OLN-RU008-F007 - GenChem 2010

OLN-FB003-B007 - GenChem 2011

OLN-FD002-D007 - GenChem 2012

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IC10-122723FAST CALIBRATION 2279

Narrative Documents

ALS Environmental—Rochester Laboratory
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Phone (585) 288-5380 Fax (585) 288-8475
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ALS Environmental

Client: Civil & Environmental Consultants, Incorporated (CEC)
Service Request: R2401280
Project: Olean OU3 - 6 Month Sampling 2024
Date Received: 02/15/2024
Sample Matrix: Water

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.
Manual Integrations may have been used in the quantitation of the results in this report. Manual Integrations are readily identified in the raw data on the Quantitation Reports (Organics) by the automatic placement of an “m” next to the sample result. For Ion Chromatography, the manual integrations are identified by the automatic placement of “manipulated” or "manually integrated" in the upper left corner of the chromatogram (Hexavalent Chromium) or “M” by the result in the “Type” column (anions). The reason for the manual integration is noted on the “after” chromatogram, which is found with the original chromatogram and quantitation report. All integrations follow the lab SOP ADM-INT “Manual Integration.”

Sample Receipt:

Twenty four water samples were received for analysis at ALS Environmental on 02/15/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.
OLN-TB004-T007 was not received by the lab so the analysis was cancelled.

Semivoa GC:

No significant anomalies were noted with this analysis.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Volatiles by GC:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

No significant anomalies were noted with this analysis.

Please note: This report has been revised to add the Metals forms that were missing from the original report.

Approved by _____ Date 02/28/2024

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R2401280-001	OLN-TB001-T007	2/12/2024	
R2401280-002	OLN-CW013-F007	2/12/2024	1432
R2401280-003	OLN-CW13A-F007	2/12/2024	1452
R2401280-004	OLN-FB001-B007	2/12/2024	1515
R2401280-005	OLN-TB002-T007	2/13/2024	
R2401280-006	OLN-WW18M-F007	2/13/2024	0800
R2401280-007	OLN-TB003-T007	2/13/2024	
R2401280-008	OLN-RU009-F007	2/13/2024	1136
R2401280-009	OLN-RU028-F007	2/13/2024	1227
R2401280-010	OLN-RU011-F007	2/13/2024	1332
R2401280-011	OLN-RU27A-F007	2/13/2024	1441
R2401280-012	OLN-FB002-B007	2/13/2024	1500
R2401280-013	OLN-RU015-F007	2/13/2024	1545
R2401280-014	OLN-RU016-F007	2/13/2024	1700
R2401280-015	OLN-FD001-D007	2/13/2024	2200
R2401280-016	OLN-RU020-F007	2/13/2024	1225
R2401280-017	OLN-RU019-F007	2/13/2024	1330
R2401280-018	OLN-RU021-F007	2/13/2024	1538
R2401280-019	OLN-UA002-F007	2/13/2024	1703
R2401280-020	OLN-EB001-E007	2/13/2024	1730
R2401280-022	OLN-UA003-F007	2/14/2024	0900
R2401280-023	OLN-RU008-F007	2/14/2024	0831
R2401280-024	OLN-FB003-B007	2/14/2024	0900
R2401280-025	OLN-FD002-D007	2/14/2024	2200

Chain of Custody Record:

Civil & Environmental Consultants, Inc.

Project Name: Olean OU 3 6 month Sampling 2024

Project Number: 300-082.0041 | Project Location: Olean, NY

Project Manager: Laura Campbell

Field Personnel: BDT, EAM

Contact Information: LCampbell@CECinc.com

CEC Office: pgh | Number of Coolers in Shipment: 4

Data Delivery:
___CD (EDD and Report) ___Paper Report
_x_Email (EDD and Report) ___Preliminary Results (ASAP)
Email Address: See Above

Turn-around-time:
_x_Standard ___7 day ___72 hr ___48 hr ___24 hr

Requested Sample Analyses

Date	Time	Sample ID	Sample Matrix: Water	Soil	Sediment	Air	Wipe	Other	See Attached Parameter List	VOCs	Number of Sample Containers	Special Instructions/ Sample Conditions/ Comments
2/13/24	1441	OLN-RU17A-F007	x						x		10	All dissolved metals have been field filtered
	1500	OLN-FB002-B007	x						x		10	
	1545	OLN-RU015-F007	x						x		12	
	1700	OLN-RU016-F007	x						x		12	
	2200	OLN-FD001-D007	x						x		12	
	1225	OLN-RU020-F007	x						x		10	
	1330	OLN-RU019-F007	x						x		10	
	1538	OLN-RU021-F007	x						x		12	
	1540	OLN-MS001-M007	x						x		12	
	1545	OLN-MSD001-M007	x						x		12	

Relinquished By: [signature] Date: 2-14-24 Time: 1500 Received By: Date: Time:

Relinquished By: Date: Time: Received By: Date: Time:

Custody Seals Intact? Yes___ No___ | Jars Intact? ___Yes ___No

Cooler Temperature Upon Receipt? °C | Ice Present? ___Yes ___No

General Comments/Remarks: MS/MSD collected @ RU-21

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Moon Township, PA 15108
(800) 365-2324
www.cecinc.com

Albany (888) 223-6439
Athens (877) 389-1852
Austin (855) 365-2324
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Charlotte (855) 859-9932
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Indianapolis (877) 746-0749
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Nashville (800) 763-2326

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Civil & Environmental Consultants, Incorporated (
Olean OU3 - 6 Month Sampling 2024

Chain of Custody Record:

Civil & Environmental Consultants, Inc.

Page 3 of 3

Project Name: Olean OU3 6 Month Sampling 2024

Project Number: 300-082.0041 | Project Location: Olean, NY

Project Manager: ~~BDT, EAM~~ Laura Campbell

Field Personnel: BDT, EAM

Contact Information: LCampbell@CECinc.com

CEC Office: pgh | Number of Coolers in Shipment: 4

Data Delivery:
___CD (EDD and Report) ___Paper Report
X Email (EDD and Report) ___Preliminary Results (ASAP)
Email Address: See Above

Turn-around-time:
X Standard ___7 day ___72 hr ___48 hr ___24 hr

Date	Time	Sample ID	Sample Matrix: Water	Soil	Sediment	Air	Wipe	Other	Requested Sample Analyses: See Attached Parameter List	VOC's	Number of Sample Containers	Special Instructions/ Sample Conditions/ Comments
2-13-24	1703	OLN-UA002-F007	X						X		12	Dissolved
1	1736	OLN-EB001-E007	X						X		12	metals have been
2-14-24	-	OLN-TB004-T007	X							X	2	field filtered
	0900	OLN-UA003-F007	X						X		12	
	0831	OLN-RU008-F007	X						X		12	
	0900	OLN-FB003-B007	X						X		12	
	0200	OLN-FD002-D007	X						X		12	

Relinquished By: Elizabeth Mezey | Date: 2-14-24 | Time: 1500 | Received By: | Date: | Time:

Relinquished By: | Date: | Time: | Received By: | Date: | Time:

Custody Seals Intact? Yes___ No___ | Jars Intact? ___Yes ___No

Cooler Temperature Upon Receipt? °C | Ice Present? ___Yes ___No

General Comments/Remarks:

CORPORATE OFFICE: Pittsburgh
700 Cherrington Parkway
Moon Township, PA 15108
(800) 365-2324
www.cecinc.com

Albany (888) 223-6439
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Bridgeport (855) 488-9539
Charlotte (855) 859-9932

Chicago (877) 963-6026
Cincinnati (800) 759-5614
Cleveland (800) 365-2324
Columbus (888) 598-6808
Greenville (855) 574-4331

Houston (800) 365-2324
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Knoxville (865) 977-9997
Monroeville (800) 899-3610
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Olean OU3 - 6 Month Sampling 2024

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Olean OU3 - 6 Month Sampling 2024

Cooler Receipt and Preservation Check Form

Project/Client Olean Folder Number

Cooler received on 2/15/24 by: SES COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	Y N	5a	**Perchlorate** samples have required headspace?	Y N NA
2	**Custody papers** properly completed (ink, signed)?	Y N	5b	Did VOA vials, Alk, or Sulfide have sig* **bubbles**?	Y N NA
3	Did all bottles arrive in good **condition** (unbroken)?	Y N	6	Where did the bottles originate?	ALS/ROC CLIENT
4	Circle: **Wet Ice** **Dry Ice** **Gel packs** present?	Y N	7	Soil VOA received as:	Bulk Encore 5035set NA

8. Temperature Readings Date: 2/15/24 Time: 945 ID: IR#12 IR#11 From: Temp Blank Sample Bottle

Observed Temp (°C)	3.8	3.0	3.4	3.7			
Within 0-6°C?	Y N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: SMO by SES on 2/15/24 at 948
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: _____ Time: _____ by: _____

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? YES NO
10. Did all bottle labels and tags agree with custody papers? YES NO
11. Were correct containers used for the tests indicated? YES NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A
13. Were dissolved metals filtered in the field? YES NO N/A
14. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_4								
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-			**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).			
		HCl	**	**						

Bottle lot numbers: _____
Explain all Discrepancies/ Other Comments:

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: _____
P.C.Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm ; WC >1 in. diameter

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations[1]

NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory. To verify NH accredited analytes, go to https://www4.des.state.nh.us/CertifiedLabs/Certified-Method.aspx.

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
Organic Acids	Water	Acetic Acid
Organic Acids	Water	Butanoic Acid (Butyric Acid)
Organic Acids	Water	Propionic Acid

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041

Sample Name: OLN-TB001-T007 **Date Collected:** 02/12/24
Lab Code: R2401280-001 **Date Received:** 02/15/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: OLN-CW013-F007 **Date Collected:** 02/12/24
Lab Code: R2401280-002 **Date Received:** 02/15/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
410.4		SDUBE
6010C	ECASTROVINCI	MMCMAHON
8260C		FNAEGLER

Sample Name: OLN-CW13A-F007 **Date Collected:** 02/12/24
Lab Code: R2401280-003 **Date Received:** 02/15/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
410.4		SDUBE
6010C	ECASTROVINCI	MMCMAHON
8260C		FNAEGLER

Sample Name: OLN-FB001-B007 **Date Collected:** 02/12/24
Lab Code: R2401280-004 **Date Received:** 02/15/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
410.4		SDUBE
6010C	ECASTROVINCI	MMCMAHON
8260C		FNAEGLER

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041

Sample Name: OLN-TB002-T007 **Date Collected:** 02/13/24
Lab Code: R2401280-005 **Date Received:** 02/15/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: OLN-WW18M-F007 **Date Collected:** 02/13/24
Lab Code: R2401280-006 **Date Received:** 02/15/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
410.4		SDUBE
6010C	ECASTROVINCI	MMCMAHON
8260C		FNAEGLER

Sample Name: OLN-TB003-T007 **Date Collected:** 02/13/24
Lab Code: R2401280-007 **Date Received:** 02/15/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: OLN-RU009-F007 **Date Collected:** 02/13/24
Lab Code: R2401280-008 **Date Received:** 02/15/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
410.4		SDUBE
6010C	ECASTROVINCI	MMCMAHON
8260C		FNAEGLER
Organic Acids		EDEGRAY
RSK 175		FNAEGLER

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041

Sample Name: OLN-RU028-F007 **Date Collected:** 02/13/24
Lab Code: R2401280-009 **Date Received:** 02/15/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
410.4		SDUBE
6010C	ECASTROVINCI	MMCMAHON
8260C		FNAEGLER
Organic Acids		EDEGRAY
RSK 175		FNAEGLER

Sample Name: OLN-RU011-F007 **Date Collected:** 02/13/24
Lab Code: R2401280-010 **Date Received:** 02/15/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
410.4		SDUBE
6010C	ECASTROVINCI	MMCMAHON
8260C		FNAEGLER
Organic Acids		EDEGRAY
RSK 175		FNAEGLER

Sample Name: OLN-RU27A-F007 **Date Collected:** 02/13/24
Lab Code: R2401280-011 **Date Received:** 02/15/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
410.4		SDUBE
6010C	ECASTROVINCI	MMCMAHON
8260C		FNAEGLER
Organic Acids		KPROCOPIO
RSK 175		FNAEGLER

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041

Sample Name: OLN-FB002-B007 **Date Collected:** 02/13/24
Lab Code: R2401280-012 **Date Received:** 02/15/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
410.4		SDUBE
6010C	ECASTROVINCI	MMCMAHON
8260C		FNAEGLER
Organic Acids		EDEGRAY
RSK 175		FNAEGLER

Sample Name: OLN-RU015-F007 **Date Collected:** 02/13/24
Lab Code: R2401280-013 **Date Received:** 02/15/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
410.4		SDUBE
6010C	ECASTROVINCI	MMCMAHON
8260C		FNAEGLER
Organic Acids		EDEGRAY
RSK 175		FNAEGLER

Sample Name: OLN-RU016-F007 **Date Collected:** 02/13/24
Lab Code: R2401280-014 **Date Received:** 02/15/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
410.4		SDUBE
6010C	ECASTROVINCI	MMCMAHON
8260C		FNAEGLER
Organic Acids		KPROCOPIO
RSK 175		FNAEGLER

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041

Sample Name: OLN-FD001-D007 **Date Collected:** 02/13/24
Lab Code: R2401280-015 **Date Received:** 02/15/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
410.4		SDUBE
6010C	ECASTROVINCI	MMCMAHON
8260C		FNAEGLER
Organic Acids		KPROCOPIO
RSK 175		FNAEGLER

Sample Name: OLN-RU020-F007 **Date Collected:** 02/13/24
Lab Code: R2401280-016 **Date Received:** 02/15/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
410.4		SDUBE
6010C	ECASTROVINCI	MMCMAHON
8260C		FNAEGLER
Organic Acids		KPROCOPIO
RSK 175		FNAEGLER

Sample Name: OLN-RU020-F007 **Date Collected:** 02/13/24
Lab Code: R2401280-016.R01 **Date Received:** 02/15/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041

Sample Name: OLN-RU019-F007 **Date Collected:** 02/13/24
Lab Code: R2401280-017 **Date Received:** 02/15/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
410.4		SDUBE
6010C	ECASTROVINCI	MMCMAHON
8260C		FNAEGLER
Organic Acids		KPROCOPIO
RSK 175		FNAEGLER

Sample Name: OLN-RU019-F007 **Date Collected:** 02/13/24
Lab Code: R2401280-017.R01 **Date Received:** 02/15/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
RSK 175		FNAEGLER

Sample Name: OLN-RU021-F007 **Date Collected:** 02/13/24
Lab Code: R2401280-018 **Date Received:** 02/15/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
410.4		SDUBE
6010C	ECASTROVINCI	MMCMAHON
8260C		FNAEGLER
Organic Acids		KPROCOPIO
RSK 175		FNAEGLER

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041

Sample Name: OLN-RU021-F007 **Date Collected:** 02/13/24
Lab Code: R2401280-018.R01 **Date Received:** 02/15/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
RSK 175		FNAEGLER

Sample Name: OLN-UA002-F007 **Date Collected:** 02/13/24
Lab Code: R2401280-019 **Date Received:** 02/15/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
410.4		SDUBE
6010C	ECASTROVINCI	MMCMAHON
8260C		FNAEGLER
Organic Acids		KPROCOPIO
RSK 175		FNAEGLER

Sample Name: OLN-EB001-E007 **Date Collected:** 02/13/24
Lab Code: R2401280-020 **Date Received:** 02/15/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
410.4		SDUBE
6010C	ECASTROVINCI	MMCMAHON
8260C		FNAEGLER
Organic Acids		KPROCOPIO
RSK 175		FNAEGLER

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041

Sample Name: OLN-UA003-F007 **Date Collected:** 02/14/24
Lab Code: R2401280-022 **Date Received:** 02/15/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
410.4		SDUBE
6010C	ECASTROVINCI	MMCMAHON
8260C		FNAEGLER
Organic Acids		KPROCOPIO
RSK 175		FNAEGLER

Sample Name: OLN-RU008-F007 **Date Collected:** 02/14/24
Lab Code: R2401280-023 **Date Received:** 02/15/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
410.4		SDUBE
6010C	ECASTROVINCI	MMCMAHON
8260C		FNAEGLER
Organic Acids		KPROCOPIO
RSK 175		FNAEGLER

Sample Name: OLN-FB003-B007 **Date Collected:** 02/14/24
Lab Code: R2401280-024 **Date Received:** 02/15/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
410.4		SDUBE
6010C	ECASTROVINCI	MMCMAHON
8260C		FNAEGLER
Organic Acids		KPROCOPIO
RSK 175		FNAEGLER

Analyst Summary report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041		

Sample Name:	OLN-FD002-D007	**Date Collected:**	02/14/24
Lab Code:	R2401280-025	**Date Received:**	02/15/24
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
410.4		SDUBE
6010C	ECASTROVINCI	MMCMAHON
8260C		FNAEGLER
Organic Acids		KPROCOPIO
RSK 175		FNAEGLER

PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

INORGANIC

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C or 6010D	3005A/3010A
6020A or 6020B	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-N-2016 Amenable and Residual Cyanide	SM 4500-CN-G and SM 4500-CN-B,C-2016
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C or 6010D	3050B
6020A or 6020B	3050B
6010C or 6010D TCLP (1311) extract	3005A/3010A
6010C or 6010D SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

ORGANIC

Preparation Methods for Organic methods are listed in the header of the Results pages.

Regarding "Bulk/5035A":
For soil/solid samples submitted in soil jars for Volatiles analysis, the prep method is listed as "Bulk/5035A". The lab follows the closed-system EPA 5035A protocols once the sample is transferred to a sealed vial, but collection in bulk in soil jars does not follow the collection protocols listed in EPA 5035A. In accordance with the NYSDOH technical notice of October 2012, all results or reporting limits <200 ug/kg are to be considered estimated due to potential low bias.

Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/12/24
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-TB001-T007	**Units:**	ug/L
Lab Code:	R2401280-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/25/24 19:14	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	02/25/24 19:14	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/25/24 19:14	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	02/25/24 19:14	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/25/24 19:14	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	85 - 122	02/25/24 19:14	
Dibromofluoromethane	97	80 - 116	02/25/24 19:14	
Toluene-d8	97	87 - 121	02/25/24 19:14	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/12/24 14:32
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-CW013-F007	**Units:**	ug/L
Lab Code:	R2401280-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/23/24 18:17	
Trichloroethene (TCE)	**2.7**	1.0	0.20	1	02/23/24 18:17	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/23/24 18:17	
cis-1,2-Dichloroethene	**0.91 J**	1.0	0.23	1	02/23/24 18:17	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/23/24 18:17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	02/23/24 18:17	
Dibromofluoromethane	99	80 - 116	02/23/24 18:17	
Toluene-d8	96	87 - 121	02/23/24 18:17	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/12/24 14:52
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-CW13A-F007	**Units:**	ug/L
Lab Code:	R2401280-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/23/24 18:40	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	02/23/24 18:40	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/23/24 18:40	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	02/23/24 18:40	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/23/24 18:40	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	85 - 122	02/23/24 18:40	
Dibromofluoromethane	96	80 - 116	02/23/24 18:40	
Toluene-d8	94	87 - 121	02/23/24 18:40	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/12/24 15:15
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FB001-B007	**Units:**	ug/L
Lab Code:	R2401280-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/23/24 17:33	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	02/23/24 17:33	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/23/24 17:33	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	02/23/24 17:33	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/23/24 17:33	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	85	85 - 122	02/23/24 17:33	
Dibromofluoromethane	93	80 - 116	02/23/24 17:33	
Toluene-d8	92	87 - 121	02/23/24 17:33	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-TB002-T007	**Units:**	ug/L
Lab Code:	R2401280-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/23/24 16:48	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	02/23/24 16:48	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/23/24 16:48	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	02/23/24 16:48	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/23/24 16:48	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	85	85 - 122	02/23/24 16:48	
Dibromofluoromethane	94	80 - 116	02/23/24 16:48	
Toluene-d8	91	87 - 121	02/23/24 16:48	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 08:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-WW18M-F007	**Units:**	ug/L
Lab Code:	R2401280-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/23/24 19:02	
Trichloroethene (TCE)	**11**	1.0	0.20	1	02/23/24 19:02	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/23/24 19:02	
cis-1,2-Dichloroethene	**0.32 J**	1.0	0.23	1	02/23/24 19:02	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/23/24 19:02	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	85 - 122	02/23/24 19:02	
Dibromofluoromethane	93	80 - 116	02/23/24 19:02	
Toluene-d8	93	87 - 121	02/23/24 19:02	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-TB003-T007	**Units:**	ug/L
Lab Code:	R2401280-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/23/24 17:10	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	02/23/24 17:10	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/23/24 17:10	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	02/23/24 17:10	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/23/24 17:10	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	86	85 - 122	02/23/24 17:10	
Dibromofluoromethane	92	80 - 116	02/23/24 17:10	
Toluene-d8	91	87 - 121	02/23/24 17:10	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 11:36
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU009-F007	**Units:**	ug/L
Lab Code:	R2401280-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/23/24 19:24	
Trichloroethene (TCE)	**0.52 J**	1.0	0.20	1	02/23/24 19:24	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/23/24 19:24	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	02/23/24 19:24	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/23/24 19:24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	86	85 - 122	02/23/24 19:24	
Dibromofluoromethane	93	80 - 116	02/23/24 19:24	
Toluene-d8	92	87 - 121	02/23/24 19:24	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 12:27
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU028-F007	**Units:**	ug/L
Lab Code:	R2401280-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/23/24 19:47	
Trichloroethene (TCE)	**38**	1.0	0.20	1	02/23/24 19:47	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/23/24 19:47	
cis-1,2-Dichloroethene	**4.4**	1.0	0.23	1	02/23/24 19:47	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/23/24 19:47	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	87	85 - 122	02/23/24 19:47	
Dibromofluoromethane	95	80 - 116	02/23/24 19:47	
Toluene-d8	94	87 - 121	02/23/24 19:47	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 13:32
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU011-F007	**Units:**	ug/L
Lab Code:	R2401280-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/23/24 20:09	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	02/23/24 20:09	
Vinyl Chloride	**0.61 J**	1.0	0.20	1	02/23/24 20:09	
cis-1,2-Dichloroethene	**1.7**	1.0	0.23	1	02/23/24 20:09	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/23/24 20:09	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	85 - 122	02/23/24 20:09	
Dibromofluoromethane	97	80 - 116	02/23/24 20:09	
Toluene-d8	95	87 - 121	02/23/24 20:09	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 14:41
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU27A-F007	**Units:**	ug/L
Lab Code:	R2401280-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/25/24 22:57	
Trichloroethene (TCE)	**0.71 J**	1.0	0.20	1	02/25/24 22:57	
Vinyl Chloride	**1.3**	1.0	0.20	1	02/25/24 22:57	
cis-1,2-Dichloroethene	**5.6**	1.0	0.23	1	02/25/24 22:57	
trans-1,2-Dichloroethene	**0.21 J**	1.0	0.20	1	02/25/24 22:57	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	87	85 - 122	02/25/24 22:57	
Dibromofluoromethane	95	80 - 116	02/25/24 22:57	
Toluene-d8	93	87 - 121	02/25/24 22:57	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 15:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FB002-B007	**Units:**	ug/L
Lab Code:	R2401280-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/23/24 17:55	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	02/23/24 17:55	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/23/24 17:55	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	02/23/24 17:55	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/23/24 17:55	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	85 - 122	02/23/24 17:55	
Dibromofluoromethane	97	80 - 116	02/23/24 17:55	
Toluene-d8	96	87 - 121	02/23/24 17:55	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 15:45
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU015-F007	**Units:**	ug/L
Lab Code:	R2401280-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/25/24 19:37	
Trichloroethene (TCE)	**5.8**	1.0	0.20	1	02/25/24 19:37	
Vinyl Chloride	**1.7**	1.0	0.20	1	02/25/24 19:37	
cis-1,2-Dichloroethene	**6.4**	1.0	0.23	1	02/25/24 19:37	
trans-1,2-Dichloroethene	**0.39 J**	1.0	0.20	1	02/25/24 19:37	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	85 - 122	02/25/24 19:37	
Dibromofluoromethane	95	80 - 116	02/25/24 19:37	
Toluene-d8	94	87 - 121	02/25/24 19:37	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 17:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU016-F007	**Units:**	ug/L
Lab Code:	R2401280-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/25/24 19:59	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	02/25/24 19:59	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/25/24 19:59	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	02/25/24 19:59	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/25/24 19:59	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	87	85 - 122	02/25/24 19:59	
Dibromofluoromethane	95	80 - 116	02/25/24 19:59	
Toluene-d8	94	87 - 121	02/25/24 19:59	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 22:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FD001-D007	**Units:**	ug/L
Lab Code:	R2401280-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/25/24 22:35	
Trichloroethene (TCE)	**6.2**	1.0	0.20	1	02/25/24 22:35	
Vinyl Chloride	**1.7**	1.0	0.20	1	02/25/24 22:35	
cis-1,2-Dichloroethene	**6.6**	1.0	0.23	1	02/25/24 22:35	
trans-1,2-Dichloroethene	**0.45 J**	1.0	0.20	1	02/25/24 22:35	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	85 - 122	02/25/24 22:35	
Dibromofluoromethane	96	80 - 116	02/25/24 22:35	
Toluene-d8	96	87 - 121	02/25/24 22:35	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 12:25
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU020-F007	**Units:**	ug/L
Lab Code:	R2401280-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	5.0 U	5.0	1.1	5	02/26/24 17:54	
Trichloroethene (TCE)	**360**	5.0	1.0	5	02/26/24 17:54	
Vinyl Chloride	5.0 U	5.0	1.0	5	02/26/24 17:54	
cis-1,2-Dichloroethene	**200**	5.0	1.2	5	02/26/24 17:54	
trans-1,2-Dichloroethene	**1.4 J**	5.0	1.0	5	02/26/24 17:54	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	02/26/24 17:54	
Dibromofluoromethane	100	80 - 116	02/26/24 17:54	
Toluene-d8	102	87 - 121	02/26/24 17:54	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 12:25
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU020-F007	**Units:**	ug/L
Lab Code:	R2401280-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	**0.72**	**J**	1.0	0.21	1	02/25/24 23:20	
Trichloroethene (TCE)	**450**	**E**	1.0	0.20	1	02/25/24 23:20	
Vinyl Chloride	**0.20**	**J**	1.0	0.20	1	02/25/24 23:20	
cis-1,2-Dichloroethene	**210**	**E**	1.0	0.23	1	02/25/24 23:20	
trans-1,2-Dichloroethene	**1.7**		1.0	0.20	1	02/25/24 23:20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	02/25/24 23:20	
Dibromofluoromethane	98	80 - 116	02/25/24 23:20	
Toluene-d8	98	87 - 121	02/25/24 23:20	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 13:30
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU019-F007	**Units:**	ug/L
Lab Code:	R2401280-017	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	**0.47** **J**	2.0	0.42	2	02/25/24 23:42	
Trichloroethene (TCE)	**180**	2.0	0.40	2	02/25/24 23:42	
Vinyl Chloride	**17**	2.0	0.40	2	02/25/24 23:42	
cis-1,2-Dichloroethene	**250**	2.0	0.46	2	02/25/24 23:42	
trans-1,2-Dichloroethene	**2.4**	2.0	0.40	2	02/25/24 23:42	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	87	85 - 122	02/25/24 23:42	
Dibromofluoromethane	94	80 - 116	02/25/24 23:42	
Toluene-d8	94	87 - 121	02/25/24 23:42	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 15:38
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU021-F007	**Units:**	ug/L
Lab Code:	R2401280-018	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	**0.29**	**J**	1.0	0.21	1	02/23/24 20:32	
Trichloroethene (TCE)	**85**		1.0	0.20	1	02/23/24 20:32	
Vinyl Chloride	**18**		1.0	0.20	1	02/23/24 20:32	
cis-1,2-Dichloroethene	**29**		1.0	0.23	1	02/23/24 20:32	
trans-1,2-Dichloroethene	**1.2**		1.0	0.20	1	02/23/24 20:32	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	87	85 - 122	02/23/24 20:32	
Dibromofluoromethane	95	80 - 116	02/23/24 20:32	
Toluene-d8	95	87 - 121	02/23/24 20:32	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 17:03
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-UA002-F007	**Units:**	ug/L
Lab Code:	R2401280-019	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/25/24 20:21	
Trichloroethene (TCE)	**0.56 J**	1.0	0.20	1	02/25/24 20:21	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/25/24 20:21	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	02/25/24 20:21	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/25/24 20:21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	85 - 122	02/25/24 20:21	
Dibromofluoromethane	96	80 - 116	02/25/24 20:21	
Toluene-d8	95	87 - 121	02/25/24 20:21	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 17:30
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-EB001-E007	**Units:**	ug/L
Lab Code:	R2401280-020	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/25/24 20:44	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	02/25/24 20:44	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/25/24 20:44	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	02/25/24 20:44	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/25/24 20:44	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	02/25/24 20:44	
Dibromofluoromethane	95	80 - 116	02/25/24 20:44	
Toluene-d8	95	87 - 121	02/25/24 20:44	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/14/24 09:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-UA003-F007	**Units:**	ug/L
Lab Code:	R2401280-022	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/25/24 21:06	
Trichloroethene (TCE)	**0.95 J**	1.0	0.20	1	02/25/24 21:06	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/25/24 21:06	
cis-1,2-Dichloroethene	**0.79 J**	1.0	0.23	1	02/25/24 21:06	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/25/24 21:06	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	85 - 122	02/25/24 21:06	
Dibromofluoromethane	96	80 - 116	02/25/24 21:06	
Toluene-d8	94	87 - 121	02/25/24 21:06	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/14/24 08:31
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU008-F007	**Units:**	ug/L
Lab Code:	R2401280-023	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	**0.27 J**	1.0	0.21	1	02/25/24 21:28	
Trichloroethene (TCE)	**150**	1.0	0.20	1	02/25/24 21:28	
Vinyl Chloride	**0.27 J**	1.0	0.20	1	02/25/24 21:28	
cis-1,2-Dichloroethene	**3.8**	1.0	0.23	1	02/25/24 21:28	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/25/24 21:28	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	85 - 122	02/25/24 21:28	
Dibromofluoromethane	96	80 - 116	02/25/24 21:28	
Toluene-d8	95	87 - 121	02/25/24 21:28	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/14/24 09:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FB003-B007	**Units:**	ug/L
Lab Code:	R2401280-024	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/26/24 17:31	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	02/26/24 17:31	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/26/24 17:31	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	02/26/24 17:31	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/26/24 17:31	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	02/26/24 17:31	
Dibromofluoromethane	101	80 - 116	02/26/24 17:31	
Toluene-d8	102	87 - 121	02/26/24 17:31	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/14/24 22:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FD002-D007	**Units:**	ug/L
Lab Code:	R2401280-025	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/25/24 22:13	
Trichloroethene (TCE)	**150**	1.0	0.20	1	02/25/24 22:13	
Vinyl Chloride	**0.26 J**	1.0	0.20	1	02/25/24 22:13	
cis-1,2-Dichloroethene	**3.6**	1.0	0.23	1	02/25/24 22:13	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/25/24 22:13	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	87	85 - 122	02/25/24 22:13	
Dibromofluoromethane	95	80 - 116	02/25/24 22:13	
Toluene-d8	95	87 - 121	02/25/24 22:13	

Volatile Organic Compounds by GC

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 11:36
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU009-F007	**Units:**	ug/L
Lab Code:	R2401280-008	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	02/16/24 13:41	
Ethene	5.0 U	5.0	0.35	1	02/16/24 13:41	
Methane	5.2 U	5.2	3.0	1	02/16/24 13:41	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 12:27
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU028-F007	**Units:**	ug/L
Lab Code:	R2401280-009	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	02/16/24 13:55	
Ethene	5.0 U	5.0	0.35	1	02/16/24 13:55	
Methane	**3.1 J**	5.2	3.0	1	02/16/24 13:55	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 13:32
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU011-F007	**Units:**	ug/L
Lab Code:	R2401280-010	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	02/16/24 14:09	
Ethene	5.0 U	5.0	0.35	1	02/16/24 14:09	
Methane	**4.9 J**	5.2	3.0	1	02/16/24 14:09	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 14:41
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU27A-F007	**Units:**	ug/L
Lab Code:	R2401280-011	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	100 U	100	17	20	02/16/24 14:36	
Ethene	100 U	100	7.0	20	02/16/24 14:36	
Methane	**5500**	100	60	20	02/16/24 14:36	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 15:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FB002-B007	**Units:**	ug/L
Lab Code:	R2401280-012	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	02/16/24 14:50	
Ethene	5.0 U	5.0	0.35	1	02/16/24 14:50	
Methane	5.2 U	5.2	3.0	1	02/16/24 14:50	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 15:45
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU015-F007	**Units:**	ug/L
Lab Code:	R2401280-013	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	02/16/24 15:04	
Ethene	5.0 U	5.0	0.35	1	02/16/24 15:04	
Methane	**61**	5.2	3.0	1	02/16/24 15:04	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 17:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU016-F007	**Units:**	ug/L
Lab Code:	R2401280-014	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	02/16/24 15:19	
Ethene	5.0 U	5.0	0.35	1	02/16/24 15:19	
Methane	5.2 U	5.2	3.0	1	02/16/24 15:19	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 22:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FD001-D007	**Units:**	ug/L
Lab Code:	R2401280-015	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	02/16/24 15:32	
Ethene	5.0 U	5.0	0.35	1	02/16/24 15:32	
Methane	**64**	5.2	3.0	1	02/16/24 15:32	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 12:25
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU020-F007	**Units:**	ug/L
Lab Code:	R2401280-016	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	52 U	52	8.5	10	02/16/24 16:00	
Ethene	50 U	50	3.5	10	02/16/24 16:00	
Methane	**4100**	52	30	10	02/16/24 16:00	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 13:30
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU019-F007	**Units:**	ug/L
Lab Code:	R2401280-017	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	**4.4 J**	10	1.7	2	02/16/24 16:14	
Ethene	10 U	10	0.70	2	02/16/24 16:14	
Methane	**5300 E**	10	6.0	2	02/16/24 16:14	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 13:30
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU019-F007	**Units:**	ug/L
Lab Code:	R2401280-017	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Ethane	100	U	100	17	20	02/16/24 16:28	
Ethene	100	U	100	7.0	20	02/16/24 16:28	
Methane	**4800**	**D**	100	60	20	02/16/24 16:28	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 15:38
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU021-F007	**Units:**	ug/L
Lab Code:	R2401280-018	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Ethane	260	U	260	43	50	02/23/24 11:41	
Ethene	250	U	250	18	50	02/23/24 11:41	
Methane	**12000**	**D**	260	150	50	02/23/24 11:41	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 15:38
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU021-F007	**Units:**	ug/L
Lab Code:	R2401280-018	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Ethane	100	U	100	17	20	02/23/24 11:27	
Ethene	100	U	100	7.0	20	02/23/24 11:27	
Methane	**11000**	**E**	100	60	20	02/23/24 11:27	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 17:03
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-UA002-F007	**Units:**	ug/L
Lab Code:	R2401280-019	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	02/23/24 12:46	
Ethene	5.0 U	5.0	0.35	1	02/23/24 12:46	
Methane	**35**	5.2	3.0	1	02/23/24 12:46	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 17:30
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-EB001-E007	**Units:**	ug/L
Lab Code:	R2401280-020	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	02/23/24 13:00	
Ethene	5.0 U	5.0	0.35	1	02/23/24 13:00	
Methane	**3.2 J**	5.2	3.0	1	02/23/24 13:00	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/14/24 09:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-UA003-F007	**Units:**	ug/L
Lab Code:	R2401280-022	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	02/23/24 13:13	
Ethene	5.0 U	5.0	0.35	1	02/23/24 13:13	
Methane	**76**	5.2	3.0	1	02/23/24 13:13	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/14/24 08:31
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU008-F007	**Units:**	ug/L
Lab Code:	R2401280-023	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	02/23/24 13:37	
Ethene	5.0 U	5.0	0.35	1	02/23/24 13:37	
Methane	**9.2**	5.2	3.0	1	02/23/24 13:37	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/14/24 09:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FB003-B007	**Units:**	ug/L
Lab Code:	R2401280-024	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	02/23/24 13:50	
Ethene	5.0 U	5.0	0.35	1	02/23/24 13:50	
Methane	5.2 U	5.2	3.0	1	02/23/24 13:50	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/14/24 22:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FD002-D007	**Units:**	ug/L
Lab Code:	R2401280-025	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	02/23/24 14:05	
Ethene	5.0 U	5.0	0.35	1	02/23/24 14:05	
Methane	**5.3**	5.2	3.0	1	02/23/24 14:05	

Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 11:36
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU009-F007	**Units:**	mg/L
Lab Code:	R2401280-008	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	02/20/24 16:02	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	02/20/24 16:02	
Propionic Acid	**1.5 J**	2.0	1.1	1	02/20/24 16:02	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 12:27
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU028-F007	**Units:**	mg/L
Lab Code:	R2401280-009	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	02/20/24 19:11	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	02/20/24 19:11	
Propionic Acid	**1.8 J**	2.0	1.1	1	02/20/24 19:11	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 13:32
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU011-F007	**Units:**	mg/L
Lab Code:	R2401280-010	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	02/20/24 19:56	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	02/20/24 19:56	
Propionic Acid	2.0 U	2.0	1.1	1	02/20/24 19:56	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 14:41
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU27A-F007	**Units:**	mg/L
Lab Code:	R2401280-011	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**210**	2.0	1.2	2	02/21/24 19:44	
Butanoic Acid (Butyric Acid)	20 U	20	10	2	02/21/24 19:44	
Propionic Acid	**74**	4.0	2.2	2	02/21/24 19:44	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 15:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FB002-B007	**Units:**	mg/L
Lab Code:	R2401280-012	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	02/20/24 21:31	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	02/20/24 21:31	
Propionic Acid	2.0 U	2.0	1.1	1	02/20/24 21:31	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 15:45
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU015-F007	**Units:**	mg/L
Lab Code:	R2401280-013	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	02/20/24 23:07	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	02/20/24 23:07	
Propionic Acid	2.0 U	2.0	1.1	1	02/20/24 23:07	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 17:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU016-F007	**Units:**	mg/L
Lab Code:	R2401280-014	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	02/21/24 20:31	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	02/21/24 20:31	
Propionic Acid	2.0 U	2.0	1.1	1	02/21/24 20:31	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 22:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FD001-D007	**Units:**	mg/L
Lab Code:	R2401280-015	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	02/21/24 22:06	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	02/21/24 22:06	
Propionic Acid	2.0 U	2.0	1.1	1	02/21/24 22:06	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 12:25
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU020-F007	**Units:**	mg/L
Lab Code:	R2401280-016	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**1.5**	1.0	0.56	1	02/21/24 22:53	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	02/21/24 22:53	
Propionic Acid	2.0 U	2.0	1.1	1	02/21/24 22:53	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 13:30
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU019-F007	**Units:**	mg/L
Lab Code:	R2401280-017	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**120**	1.0	0.56	1	02/21/24 23:40	
Butanoic Acid (Butyric Acid)	**67**	10	5.0	1	02/21/24 23:40	
Propionic Acid	**45**	2.0	1.1	1	02/21/24 23:40	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 15:38
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU021-F007	**Units:**	mg/L
Lab Code:	R2401280-018	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**89**	1.0	0.56	1	02/22/24 00:28	
Butanoic Acid (Butyric Acid)	**8.2 J**	10	5.0	1	02/22/24 00:28	
Propionic Acid	**17**	2.0	1.1	1	02/22/24 00:28	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 17:03
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-UA002-F007	**Units:**	mg/L
Lab Code:	R2401280-019	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	02/22/24 03:37	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	02/22/24 03:37	
Propionic Acid	2.0 U	2.0	1.1	1	02/22/24 03:37	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 17:30
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-EB001-E007	**Units:**	mg/L
Lab Code:	R2401280-020	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	02/22/24 04:24	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	02/22/24 04:24	
Propionic Acid	2.0 U	2.0	1.1	1	02/22/24 04:24	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/14/24 09:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-UA003-F007	**Units:**	mg/L
Lab Code:	R2401280-022	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**2.7**	1.0	0.56	1	02/22/24 05:11	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	02/22/24 05:11	
Propionic Acid	2.0 U	2.0	1.1	1	02/22/24 05:11	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/14/24 08:31
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU008-F007	**Units:**	mg/L
Lab Code:	R2401280-023	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	02/22/24 06:45	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	02/22/24 06:45	
Propionic Acid	2.0 U	2.0	1.1	1	02/22/24 06:45	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/14/24 09:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FB003-B007	**Units:**	mg/L
Lab Code:	R2401280-024	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	02/22/24 07:32	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	02/22/24 07:32	
Propionic Acid	2.0 U	2.0	1.1	1	02/22/24 07:32	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/14/24 22:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FD002-D007	**Units:**	mg/L
Lab Code:	R2401280-025	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	02/22/24 08:20	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	02/22/24 08:20	
Propionic Acid	2.0 U	2.0	1.1	1	02/22/24 08:20	

Metals

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Form 1

Inorganic Analysis Data Sheet

Metals by EPA 6010C

Workorder

R2401280

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 - 6 Month Sampling 2024

06/07/2024

ALS Environmental–Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

OLN-CW013-F007

	Collected	Received	Matrix	Prep Method
R2401280-002	02/12/24 1432	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 19:47	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	6230		ug/L	70	100	1	02/21/24 19:47	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	362		ug/L	4	10	1	02/21/24 19:47	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

OLN-CW13A-F007

	Collected	Received	Matrix	Prep Method
R2401280-003	02/12/24 1452	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 19:50	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	3670		ug/L	70	100	1	02/21/24 19:50	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	2900		ug/L	4	10	1	02/21/24 19:50	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

OLN-FB001-B007

	Collected	Received	Matrix	Prep Method
R2401280-004	02/12/24 1515	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 19:54	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	100	U	ug/L	70	100	1	02/21/24 19:54	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	10	U	ug/L	4	10	1	02/21/24 19:54	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

OLN-WW18M-F007

	Collected	Received	Matrix	Prep Method
R2401280-006	02/13/24 0800	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 19:57	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	100	U	ug/L	70	100	1	02/21/24 19:57	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	11		ug/L	4	10	1	02/21/24 19:57	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

OLN-RU009-F007

	Collected	Received	Matrix	Prep Method
R2401280-008	02/13/24 1136	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 20:00	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	100	U	ug/L	70	100	1	02/21/24 20:00	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	10	U	ug/L	4	10	1	02/21/24 20:00	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

OLN-RU028-F007

	Collected	Received	Matrix	Prep Method
R2401280-009	02/13/24 1227	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 20:03	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	100	U	ug/L	70	100	1	02/21/24 20:03	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	10	U	ug/L	4	10	1	02/21/24 20:03	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

OLN-RU011-F007

	Collected	Received	Matrix	Prep Method
R2401280-010	02/13/24 1332	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 20:06	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	230		ug/L	70	100	1	02/21/24 20:06	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	767		ug/L	4	10	1	02/21/24 20:06	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

OLN-RU27A-F007

	Collected	Received	Matrix	Prep Method
R2401280-011	02/13/24 1441	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	18		ug/L	6	10	1	02/21/24 20:10	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	42300		ug/L	70	100	1	02/21/24 20:10	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	120000		ug/L	400	1000	100	02/22/24 17:21	R-ICP-AES-07_833186	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

OLN-FB002-B007

	Collected	Received	Matrix	Prep Method
R2401280-012	02/13/24 1500	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 20:19	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	100	U	ug/L	70	100	1	02/21/24 20:19	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	10	U	ug/L	4	10	1	02/21/24 20:19	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

OLN-RU015-F007

	Collected	Received	Matrix	Prep Method
R2401280-013	02/13/24 1545	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 20:23	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	5490		ug/L	70	100	1	02/21/24 20:23	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	1170		ug/L	4	10	1	02/21/24 20:23	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

OLN-RU016-F007

	Collected	Received	Matrix	Prep Method
R2401280-014	02/13/24 1700	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 20:26	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	100	U	ug/L	70	100	1	02/21/24 20:26	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	238		ug/L	4	10	1	02/21/24 20:26	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

OLN-FD001-D007

	Collected	Received	Matrix	Prep Method
R2401280-015	02/13/24 2200	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 20:29	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	5470		ug/L	70	100	1	02/21/24 20:29	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	1170		ug/L	4	10	1	02/21/24 20:29	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

OLN-RU020-F007

	Collected	Received	Matrix	Prep Method
R2401280-016	02/13/24 1225	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 20:32	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	830		ug/L	70	100	1	02/21/24 20:32	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	1170		ug/L	4	10	1	02/21/24 20:32	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

OLN-RU019-F007

	Collected	Received	Matrix	Prep Method
R2401280-017	02/13/24 1330	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 20:35	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	29800		ug/L	70	100	1	02/21/24 20:35	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	13800		ug/L	80	200	20	02/22/24 17:24	R-ICP-AES-07_833186	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

OLN-RU021-F007

	Collected	Received	Matrix	Prep Method
R2401280-018	02/13/24 1538	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	76		ug/L	6	10	1	02/21/24 20:39	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	57400		ug/L	1300	2000	20	02/23/24 14:16	R-ICP-AES-07_833320	434254
P	Manganese, Dissolved	4740		ug/L	4	10	1	02/21/24 20:39	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

OLN-UA002-F007

	Collected	Received	Matrix	Prep Method
R2401280-019	02/13/24 1703	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 21:01	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	120		ug/L	70	100	1	02/21/24 21:01	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	46		ug/L	4	10	1	02/21/24 21:01	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

OLN-EB001-E007

	Collected	Received	Matrix	Prep Method
R2401280-020	02/13/24 1730	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 21:05	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	100	U	ug/L	70	100	1	02/21/24 21:05	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	10	U	ug/L	4	10	1	02/21/24 21:05	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

OLN-UA003-F007

	Collected	Received	Matrix	Prep Method
R2401280-022	02/14/24 0900	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	6	J	ug/L	6	10	1	02/21/24 21:08	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	1550		ug/L	70	100	1	02/21/24 21:08	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	246		ug/L	4	10	1	02/21/24 21:08	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

OLN-RU008-F007

	Collected	Received	Matrix	Prep Method
R2401280-023	02/14/24 0831	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 21:11	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	100	U	ug/L	70	100	1	02/21/24 21:11	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	234		ug/L	4	10	1	02/21/24 21:11	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

OLN-FB003-B007

	Collected	Received	Matrix	Prep Method
R2401280-024	02/14/24 0900	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 21:14	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	100	U	ug/L	70	100	1	02/21/24 21:14	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	10	U	ug/L	4	10	1	02/21/24 21:14	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

OLN-FD002-D007

	Collected	Received	Matrix	Prep Method
R2401280-025	02/14/24 2200	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 21:47	R-ICP-AES-07_833056	434255
P	Iron, Dissolved	100	U	ug/L	70	100	1	02/21/24 21:47	R-ICP-AES-07_833056	434255
P	Manganese, Dissolved	232		ug/L	4	10	1	02/21/24 21:47	R-ICP-AES-07_833056	434255

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

Method Blank

	Matrix	**Prep Method**
R2401280-MB1	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 19:41	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	100	U	ug/L	70	100	1	02/21/24 19:41	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	10	U	ug/L	4	10	1	02/21/24 19:41	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

Method Blank

	Matrix	**Prep Method**
R2401280-MB2	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 21:40	R-ICP-AES-07_833056	434255
P	Iron, Dissolved	100	U	ug/L	70	100	1	02/21/24 21:40	R-ICP-AES-07_833056	434255
P	Manganese, Dissolved	10	U	ug/L	4	10	1	02/21/24 21:40	R-ICP-AES-07_833056	434255

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

General Chemistry

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/12/24 14:32
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-CW013-F007	**Basis:**	NA
Lab Code:	R2401280-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	**13.2**	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	**33.4**	mg/L	4.0	0.8	20	02/27/24 13:59	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/12/24 14:52
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-CW13A-F007	**Basis:**	NA
Lab Code:	R2401280-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	**22.6**	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	**80.9**	mg/L	2.0	0.4	10	02/26/24 19:43	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/12/24 15:15
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FB001-B007	**Basis:**	NA
Lab Code:	R2401280-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	**3.8 J**	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	2.0 U	mg/L	2.0	0.4	10	02/26/24 20:10	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 08:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-WW18M-F007	**Basis:**	NA
Lab Code:	R2401280-006		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	5.0 U	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	**23.6**	mg/L	2.0	0.4	10	02/26/24 20:17	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 11:36
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU009-F007	**Basis:**	NA
Lab Code:	R2401280-008		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	**6.5**	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	**42.6**	mg/L	2.0	0.4	10	02/26/24 20:39	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 12:27
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU028-F007	**Basis:**	NA
Lab Code:	R2401280-009		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	**6.2**	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	**23.4**	mg/L	2.0	0.4	10	02/26/24 20:46	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 13:32
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU011-F007	**Basis:**	NA
Lab Code:	R2401280-010		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	**4.8 J**	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	**33.7**	mg/L	2.0	0.4	10	02/26/24 20:53	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 14:41
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU27A-F007	**Basis:**	NA
Lab Code:	R2401280-011		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	**749**	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	2.0 U	mg/L	2.0	0.4	10	02/26/24 21:00	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 15:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FB002-B007	**Basis:**	NA
Lab Code:	R2401280-012		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	**4.8 J**	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	2.0 U	mg/L	2.0	0.4	10	02/26/24 21:07	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 15:45
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU015-F007	**Basis:**	NA
Lab Code:	R2401280-013		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	**27.3**	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	**28.5**	mg/L	2.0	0.4	10	02/27/24 06:43	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 17:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU016-F007	**Basis:**	NA
Lab Code:	R2401280-014		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	**27.6**	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	**63.2**	mg/L	2.0	0.4	10	02/27/24 06:50	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 22:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FD001-D007	**Basis:**	NA
Lab Code:	R2401280-015		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	**26.2**	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	**28.2**	mg/L	2.0	0.4	10	02/27/24 06:57	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 12:25
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU020-F007	**Basis:**	NA
Lab Code:	R2401280-016		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	**38.9**	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	**65.7**	mg/L	2.0	0.4	10	02/27/24 07:04	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 13:30
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU019-F007	**Basis:**	NA
Lab Code:	R2401280-017		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	**614**	mg/L	5.0	3.8	1	02/22/24 13:38	
Sulfate	300.0	**370**	mg/L	8.0	1.6	40	02/28/24 10:14	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 15:38
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU021-F007	**Basis:**	NA
Lab Code:	R2401280-018		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	**259**	mg/L	5.0	3.8	1	02/22/24 13:38	
Sulfate	300.0	**248**	mg/L	8.0	1.6	40	02/28/24 10:21	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 17:03
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-UA002-F007	**Basis:**	NA
Lab Code:	R2401280-019		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	**8.6**	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	**46.1**	mg/L	2.0	0.4	10	02/27/24 07:38	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 17:30
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-EB001-E007	**Basis:**	NA
Lab Code:	R2401280-020		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	5.0 U	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	**0.5 J**	mg/L	2.0	0.4	10	02/27/24 07:58	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/14/24 09:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-UA003-F007	**Basis:**	NA
Lab Code:	R2401280-022		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	**24.4**	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	**9.6**	mg/L	2.0	0.4	10	02/27/24 08:05	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/14/24 08:31
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU008-F007	**Basis:**	NA
Lab Code:	R2401280-023		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	5.0 U	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	**35.9**	mg/L	2.0	0.4	10	02/27/24 08:12	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/14/24 09:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FB003-B007	**Basis:**	NA
Lab Code:	R2401280-024		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	5.0 U	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	2.0 U	mg/L	2.0	0.4	10	02/27/24 08:19	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/14/24 22:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FD002-D007	**Basis:**	NA
Lab Code:	R2401280-025		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	**3.8 J**	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	**35.3**	mg/L	2.0	0.4	10	02/27/24 08:26	

QC Summary Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene 85 - 122	Dibromofluoromethane 80 - 116	Toluene-d8 87 - 121
OLN-TB001-T007	R2401280-001	88	97	97
OLN-CW013-F007	R2401280-002	91	99	96
OLN-CW13A-F007	R2401280-003	88	96	94
OLN-FB001-B007	R2401280-004	85	93	92
OLN-TB002-T007	R2401280-005	85	94	91
OLN-WW18M-F007	R2401280-006	88	93	93
OLN-TB003-T007	R2401280-007	86	92	91
OLN-RU009-F007	R2401280-008	86	93	92
OLN-RU028-F007	R2401280-009	87	95	94
OLN-RU011-F007	R2401280-010	88	97	95
OLN-RU27A-F007	R2401280-011	87	95	93
OLN-FB002-B007	R2401280-012	89	97	96
OLN-RU015-F007	R2401280-013	88	95	94
OLN-RU016-F007	R2401280-014	87	95	94
OLN-FD001-D007	R2401280-015	88	96	96
OLN-RU020-F007	R2401280-016	93	98	98
OLN-RU020-F007 DL	R2401280-016	102	100	102
OLN-RU019-F007	R2401280-017	87	94	94
OLN-RU021-F007	R2401280-018	87	95	95
OLN-UA002-F007	R2401280-019	88	96	95
OLN-EB001-E007	R2401280-020	90	95	95
OLN-UA003-F007	R2401280-022	88	96	94
OLN-RU008-F007	R2401280-023	88	96	95
OLN-FB003-B007	R2401280-024	100	101	102
OLN-FD002-D007	R2401280-025	87	95	95
Lab Control Sample	RQ2402015-03	91	98	94
Method Blank	RQ2402015-04	86	94	92
OLN-RU021-F007 MS	RQ2402015-05	95	98	96
OLN-RU021-F007 DMS	RQ2402015-06	93	98	93
Lab Control Sample	RQ2402024-04	90	96	92
Method Blank	RQ2402024-07	88	97	95
Lab Control Sample	RQ2402038-04	99	103	100
Method Blank	RQ2402038-06	97	100	101

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24
Sample Matrix:	Water	**Date Received:**	02/15/24
		Date Analyzed:	02/23/24
		Date Extracted:	NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name:	OLN-RU021-F007	**Units:**	ug/L
Lab Code:	R2401280-018	**Basis:**	NA
Analysis Method:	8260C		
Prep Method:	EPA 5030C		

		Matrix Spike RQ2402015-05			**Duplicate Matrix Spike** RQ2402015-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Tetrachloroethene (PCE)	0.29 J	50.0	50.0	99	52.7	50.0	105	72-125	5	30
Trichloroethene (TCE)	85	132	50.0	95	135	50.0	101	74-122	2	30
Vinyl Chloride	18	54.8	50.0	74	55.5	50.0	76	74-159	1	30
cis-1,2-Dichloroethene	29	73.9	50.0	90	72.2	50.0	86	77-127	2	30
trans-1,2-Dichloroethene	1.2	43.7	50.0	85	44.6	50.0	87	73-118	2	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Analyzed:**	02/23/24 13:06
Sample Matrix:	Water	**Date Extracted:**	

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	R-MS-14
Lab Code:	RQ2402015-04	**File ID:**	I:\ACQUDATA\MSVOA14\Data\022324\F8370.D\
Analysis Method:	8260C	**Analysis Lot:**	833205
Prep Method:	EPA 5030C		

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ2402015-03	I:\ACQUDATA\MSVOA14\Data\022324\F8367.D	02/23/24 11:47
OLN-TB002-T007	R2401280-005	I:\ACQUDATA\MSVOA14\Data\022324\F8379.D	02/23/24 16:48
OLN-TB003-T007	R2401280-007	I:\ACQUDATA\MSVOA14\Data\022324\F8380.D	02/23/24 17:10
OLN-FB001-B007	R2401280-004	I:\ACQUDATA\MSVOA14\Data\022324\F8381.D	02/23/24 17:33
OLN-FB002-B007	R2401280-012	I:\ACQUDATA\MSVOA14\Data\022324\F8382.D	02/23/24 17:55
OLN-CW013-F007	R2401280-002	I:\ACQUDATA\MSVOA14\Data\022324\F8383.D	02/23/24 18:17
OLN-CW13A-F007	R2401280-003	I:\ACQUDATA\MSVOA14\Data\022324\F8384.D	02/23/24 18:40
OLN-WW18M-F007	R2401280-006	I:\ACQUDATA\MSVOA14\Data\022324\F8385.D	02/23/24 19:02
OLN-RU009-F007	R2401280-008	I:\ACQUDATA\MSVOA14\Data\022324\F8386.D	02/23/24 19:24
OLN-RU028-F007	R2401280-009	I:\ACQUDATA\MSVOA14\Data\022324\F8387.D	02/23/24 19:47
OLN-RU011-F007	R2401280-010	I:\ACQUDATA\MSVOA14\Data\022324\F8388.D	02/23/24 20:09
OLN-RU021-F007	R2401280-018	I:\ACQUDATA\MSVOA14\Data\022324\F8389.D	02/23/24 20:32
OLN-RU021-F007MS	RQ2402015-05	I:\ACQUDATA\MSVOA14\Data\022324\F8390.D	02/23/24 20:54
OLN-RU021-F007DMS	RQ2402015-06	I:\ACQUDATA\MSVOA14\Data\022324\F8391.D	02/23/24 21:16

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Analyzed:**	02/25/24 16:16
Sample Matrix:	Water	**Date Extracted:**	

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	R-MS-14
Lab Code:	RQ2402024-07	**File ID:**	I:\ACQUDATA\MSVOA14\Data\022524\F8403.D\
Analysis Method:	8260C	**Analysis Lot:**	833305
Prep Method:	EPA 5030C		

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ2402024-04	I:\ACQUDATA\MSVOA14\Data\022524\F8400.D	02/25/24 14:45
OLN-TB001-T007	R2401280-001	I:\ACQUDATA\MSVOA14\Data\022524\F8411.D	02/25/24 19:14
OLN-RU015-F007	R2401280-013	I:\ACQUDATA\MSVOA14\Data\022524\F8412.D	02/25/24 19:37
OLN-RU016-F007	R2401280-014	I:\ACQUDATA\MSVOA14\Data\022524\F8413.D	02/25/24 19:59
OLN-UA002-F007	R2401280-019	I:\ACQUDATA\MSVOA14\Data\022524\F8414.D	02/25/24 20:21
OLN-EB001-E007	R2401280-020	I:\ACQUDATA\MSVOA14\Data\022524\F8415.D	02/25/24 20:44
OLN-UA003-F007	R2401280-022	I:\ACQUDATA\MSVOA14\Data\022524\F8416.D	02/25/24 21:06
OLN-RU008-F007	R2401280-023	I:\ACQUDATA\MSVOA14\Data\022524\F8417.D	02/25/24 21:28
OLN-FD002-D007	R2401280-025	I:\ACQUDATA\MSVOA14\Data\022524\F8419.D	02/25/24 22:13
OLN-FD001-D007	R2401280-015	I:\ACQUDATA\MSVOA14\Data\022524\F8420.D	02/25/24 22:35
OLN-RU27A-F007	R2401280-011	I:\ACQUDATA\MSVOA14\Data\022524\F8421.D	02/25/24 22:57
OLN-RU020-F007	R2401280-016	I:\ACQUDATA\MSVOA14\Data\022524\F8422.D	02/25/24 23:20
OLN-RU019-F007	R2401280-017	I:\ACQUDATA\MSVOA14\Data\022524\F8423.D	02/25/24 23:42

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Analyzed:**	02/26/24 12:45
Sample Matrix:	Water	**Date Extracted:**	

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: RQ2402038-06
Instrument ID: R-MS-17
File ID: I:\ACQUDATA\MSVOA17\Data\022624\E9990.D\

Analysis Method: 8260C
Prep Method: EPA 5030C
Analysis Lot: 833324

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ2402038-04	I:\ACQUDATA\MSVOA17\Data\022624\E9987.D\	02/26/24 11:36
OLN-FB003-B007	R2401280-024	I:\ACQUDATA\MSVOA17\Data\022624\K0002.D\	02/26/24 17:31
OLN-RU020-F007	R2401280-016	I:\ACQUDATA\MSVOA17\Data\022624\K0003.D\	02/26/24 17:54

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2402015-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/23/24 13:06	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	02/23/24 13:06	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/23/24 13:06	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	02/23/24 13:06	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/23/24 13:06	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	86	85 - 122	02/23/24 13:06	
Dibromofluoromethane	94	80 - 116	02/23/24 13:06	
Toluene-d8	92	87 - 121	02/23/24 13:06	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2402024-07	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/25/24 16:16	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	02/25/24 16:16	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/25/24 16:16	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	02/25/24 16:16	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/25/24 16:16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	85 - 122	02/25/24 16:16	
Dibromofluoromethane	97	80 - 116	02/25/24 16:16	
Toluene-d8	95	87 - 121	02/25/24 16:16	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2402038-06	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/26/24 12:45	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	02/26/24 12:45	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/26/24 12:45	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	02/26/24 12:45	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/26/24 12:45	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	02/26/24 12:45	
Dibromofluoromethane	100	80 - 116	02/26/24 12:45	
Toluene-d8	101	87 - 121	02/26/24 12:45	

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Analyzed:**	02/23/24 11:47
Sample Matrix:	Water	**Date Extracted:**	

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Lab Control Sample	**Instrument ID:**	R-MS-14
Lab Code:	RQ2402015-03	**File ID:**	I:\ACQUDATA\MSVOA14\Data\022324\F8367.D\
Analysis Method:	8260C	**Analysis Lot:**	833205
Prep Method:	EPA 5030C		

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ2402015-04	I:\ACQUDATA\MSVOA14\Data\022324\F8370.D	02/23/24 13:06
OLN-TB002-T007	R2401280-005	I:\ACQUDATA\MSVOA14\Data\022324\F8379.D	02/23/24 16:48
OLN-TB003-T007	R2401280-007	I:\ACQUDATA\MSVOA14\Data\022324\F8380.D	02/23/24 17:10
OLN-FB001-B007	R2401280-004	I:\ACQUDATA\MSVOA14\Data\022324\F8381.D	02/23/24 17:33
OLN-FB002-B007	R2401280-012	I:\ACQUDATA\MSVOA14\Data\022324\F8382.D	02/23/24 17:55
OLN-CW013-F007	R2401280-002	I:\ACQUDATA\MSVOA14\Data\022324\F8383.D	02/23/24 18:17
OLN-CW13A-F007	R2401280-003	I:\ACQUDATA\MSVOA14\Data\022324\F8384.D	02/23/24 18:40
OLN-WW18M-F007	R2401280-006	I:\ACQUDATA\MSVOA14\Data\022324\F8385.D	02/23/24 19:02
OLN-RU009-F007	R2401280-008	I:\ACQUDATA\MSVOA14\Data\022324\F8386.D	02/23/24 19:24
OLN-RU028-F007	R2401280-009	I:\ACQUDATA\MSVOA14\Data\022324\F8387.D	02/23/24 19:47
OLN-RU011-F007	R2401280-010	I:\ACQUDATA\MSVOA14\Data\022324\F8388.D	02/23/24 20:09
OLN-RU021-F007	R2401280-018	I:\ACQUDATA\MSVOA14\Data\022324\F8389.D	02/23/24 20:32
OLN-RU021-F007MS	RQ2402015-05	I:\ACQUDATA\MSVOA14\Data\022324\F8390.D	02/23/24 20:54
OLN-RU021-F007DMS	RQ2402015-06	I:\ACQUDATA\MSVOA14\Data\022324\F8391.D	02/23/24 21:16

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Analyzed:**	02/25/24 14:45
Sample Matrix:	Water	**Date Extracted:**	

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Instrument ID: R-MS-14
Lab Code: RQ2402024-04
File ID: I:\ACQUDATA\MSVOA14\Data\022524\F8400.D\

Analysis Method: 8260C
Analysis Lot: 833305
Prep Method: EPA 5030C

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ2402024-07	I:\ACQUDATA\MSVOA14\Data\022524\F8403.D	02/25/24 16:16
OLN-TB001-T007	R2401280-001	I:\ACQUDATA\MSVOA14\Data\022524\F8411.D	02/25/24 19:14
OLN-RU015-F007	R2401280-013	I:\ACQUDATA\MSVOA14\Data\022524\F8412.D	02/25/24 19:37
OLN-RU016-F007	R2401280-014	I:\ACQUDATA\MSVOA14\Data\022524\F8413.D	02/25/24 19:59
OLN-UA002-F007	R2401280-019	I:\ACQUDATA\MSVOA14\Data\022524\F8414.D	02/25/24 20:21
OLN-EB001-E007	R2401280-020	I:\ACQUDATA\MSVOA14\Data\022524\F8415.D	02/25/24 20:44
OLN-UA003-F007	R2401280-022	I:\ACQUDATA\MSVOA14\Data\022524\F8416.D	02/25/24 21:06
OLN-RU008-F007	R2401280-023	I:\ACQUDATA\MSVOA14\Data\022524\F8417.D	02/25/24 21:28
OLN-FD002-D007	R2401280-025	I:\ACQUDATA\MSVOA14\Data\022524\F8419.D	02/25/24 22:13
OLN-FD001-D007	R2401280-015	I:\ACQUDATA\MSVOA14\Data\022524\F8420.D	02/25/24 22:35
OLN-RU27A-F007	R2401280-011	I:\ACQUDATA\MSVOA14\Data\022524\F8421.D	02/25/24 22:57
OLN-RU020-F007	R2401280-016	I:\ACQUDATA\MSVOA14\Data\022524\F8422.D	02/25/24 23:20
OLN-RU019-F007	R2401280-017	I:\ACQUDATA\MSVOA14\Data\022524\F8423.D	02/25/24 23:42

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Analyzed:**	02/26/24 11:36
Sample Matrix:	Water	**Date Extracted:**	

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Lab Control Sample	**Instrument ID:**	R-MS-17
Lab Code:	RQ2402038-04	**File ID:**	I:\ACQUDATA\MSVOA17\Data\022624\E9987.D\
Analysis Method:	8260C	**Analysis Lot:**	833324
Prep Method:	EPA 5030C		

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ2402038-06	I:\ACQUDATA\MSVOA17\Data\022624\E9990.D\	02/26/24 12:45
OLN-FB003-B007	R2401280-024	I:\ACQUDATA\MSVOA17\Data\022624 \K0002.D\	02/26/24 17:31
OLN-RU020-F007	R2401280-016	I:\ACQUDATA\MSVOA17\Data\022624 \K0003.D\	02/26/24 17:54

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041
Sample Matrix: Water

Service Request: R2401280
Date Analyzed: 02/23/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2402015-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Tetrachloroethene (PCE)	8260C	21.7	20.0	108	72-125
Trichloroethene (TCE)	8260C	19.7	20.0	98	74-122
Vinyl Chloride	8260C	15.9	20.0	80	74-159
cis-1,2-Dichloroethene	8260C	19.1	20.0	96	80-121
trans-1,2-Dichloroethene	8260C	18.5	20.0	92	73-118

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041
Sample Matrix: Water

Service Request: R2401280
Date Analyzed: 02/25/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2402024-04

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Tetrachloroethene (PCE)	8260C	20.5	20.0	103	72-125
Trichloroethene (TCE)	8260C	18.5	20.0	93	74-122
Vinyl Chloride	8260C	15.6	20.0	78	74-159
cis-1,2-Dichloroethene	8260C	18.9	20.0	95	80-121
trans-1,2-Dichloroethene	8260C	17.7	20.0	88	73-118

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Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041
Sample Matrix: Water

Service Request: R2401280
Date Analyzed: 02/26/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2402038-04

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Tetrachloroethene (PCE)	8260C	19.4	20.0	97	72-125
Trichloroethene (TCE)	8260C	20.5	20.0	102	74-122
Vinyl Chloride	8260C	16.5	20.0	83	74-159
cis-1,2-Dichloroethene	8260C	20.9	20.0	105	80-121
trans-1,2-Dichloroethene	8260C	19.2	20.0	96	73-118

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041 **Date Analyzed:**02/23/24 10:34

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA14\Data\022324\F8365.D\ **Analytical Method:** 8260C
Instrument ID: R-MS-14 **Analysis Lot:** 833205

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	22.7	42936	Pass
75	95	30	60	54.4	102973	Pass
95	95	100	100	100.0	189291	Pass
96	95	5	9	7.0	13263	Pass
173	174	0	2	0.0	0	Pass
174	95	50	120	83.8	158683	Pass
175	174	5	9	8.4	13320	Pass
176	174	95	101	97.8	155123	Pass
177	176	5	9	6.9	10652	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ2402015-02	I:\ACQUDATA\MSVOA14\Data\022324\F8366.D\	02/23/24 11:10	
Lab Control Sample	RQ2402015-03	I:\ACQUDATA\MSVOA14\Data\022324\F8367.D\	02/23/24 11:47	
Method Blank	RQ2402015-04	I:\ACQUDATA\MSVOA14\Data\022324\F8370.D\	02/23/24 13:06	
OLN-TB002-T007	R2401280-005	I:\ACQUDATA\MSVOA14\Data\022324\F8379.D\	02/23/24 16:48	
OLN-TB003-T007	R2401280-007	I:\ACQUDATA\MSVOA14\Data\022324\F8380.D\	02/23/24 17:10	
OLN-FB001-B007	R2401280-004	I:\ACQUDATA\MSVOA14\Data\022324\F8381.D\	02/23/24 17:33	
OLN-FB002-B007	R2401280-012	I:\ACQUDATA\MSVOA14\Data\022324\F8382.D\	02/23/24 17:55	
OLN-CW013-F007	R2401280-002	I:\ACQUDATA\MSVOA14\Data\022324\F8383.D\	02/23/24 18:17	
OLN-CW13A-F007	R2401280-003	I:\ACQUDATA\MSVOA14\Data\022324\F8384.D\	02/23/24 18:40	
OLN-WW18M-F007	R2401280-006	I:\ACQUDATA\MSVOA14\Data\022324\F8385.D\	02/23/24 19:02	
OLN-RU009-F007	R2401280-008	I:\ACQUDATA\MSVOA14\Data\022324\F8386.D\	02/23/24 19:24	
OLN-RU028-F007	R2401280-009	I:\ACQUDATA\MSVOA14\Data\022324\F8387.D\	02/23/24 19:47	
OLN-RU011-F007	R2401280-010	I:\ACQUDATA\MSVOA14\Data\022324\F8388.D\	02/23/24 20:09	
OLN-RU021-F007	R2401280-018	I:\ACQUDATA\MSVOA14\Data\022324\F8389.D\	02/23/24 20:32	
OLN-RU021-F007	RQ2402015-05	I:\ACQUDATA\MSVOA14\Data\022324\F8390.D\	02/23/24 20:54	
OLN-RU021-F007	RQ2402015-06	I:\ACQUDATA\MSVOA14\Data\022324\F8391.D\	02/23/24 21:16	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041 **Date Analyzed:**02/25/24 13:16

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA14\Data\022524\F8397.D\ **Analytical Method:** 8260C
Instrument ID: R-MS-14 **Analysis Lot:** 833305

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	22.0	40904	Pass
75	95	30	60	53.5	99381	Pass
95	95	100	100	100.0	185621	Pass
96	95	5	9	6.7	12361	Pass
173	174	0	2	0.0	0	Pass
174	95	50	120	83.6	155125	Pass
175	174	5	9	7.9	12254	Pass
176	174	95	101	96.1	149013	Pass
177	176	5	9	6.6	9879	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ2402024-02	I:\ACQUDATA\MSVOA14\Data\022524\F8398.D\	02/25/24 13:48	
Lab Control Sample	RQ2402024-04	I:\ACQUDATA\MSVOA14\Data\022524\F8400.D\	02/25/24 14:45	
Method Blank	RQ2402024-07	I:\ACQUDATA\MSVOA14\Data\022524\F8403.D\	02/25/24 16:16	
OLN-TB001-T007	R2401280-001	I:\ACQUDATA\MSVOA14\Data\022524\F8411.D\	02/25/24 19:14	
OLN-RU015-F007	R2401280-013	I:\ACQUDATA\MSVOA14\Data\022524\F8412.D\	02/25/24 19:37	
OLN-RU016-F007	R2401280-014	I:\ACQUDATA\MSVOA14\Data\022524\F8413.D\	02/25/24 19:59	
OLN-UA002-F007	R2401280-019	I:\ACQUDATA\MSVOA14\Data\022524\F8414.D\	02/25/24 20:21	
OLN-EB001-E007	R2401280-020	I:\ACQUDATA\MSVOA14\Data\022524\F8415.D\	02/25/24 20:44	
OLN-UA003-F007	R2401280-022	I:\ACQUDATA\MSVOA14\Data\022524\F8416.D\	02/25/24 21:06	
OLN-RU008-F007	R2401280-023	I:\ACQUDATA\MSVOA14\Data\022524\F8417.D\	02/25/24 21:28	
OLN-FD002-D007	R2401280-025	I:\ACQUDATA\MSVOA14\Data\022524\F8419.D\	02/25/24 22:13	
OLN-FD001-D007	R2401280-015	I:\ACQUDATA\MSVOA14\Data\022524\F8420.D\	02/25/24 22:35	
OLN-RU27A-F007	R2401280-011	I:\ACQUDATA\MSVOA14\Data\022524\F8421.D\	02/25/24 22:57	
OLN-RU020-F007	R2401280-016	I:\ACQUDATA\MSVOA14\Data\022524\F8422.D\	02/25/24 23:20	
OLN-RU019-F007	R2401280-017	I:\ACQUDATA\MSVOA14\Data\022524\F8423.D\	02/25/24 23:42	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041 **Date Analyzed:**02/26/24 09:23

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA17\Data\022624\E9983.D\ **Analytical Method:** 8260C
Instrument ID: R-MS-17 **Analysis Lot:** 833324

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	20.9	42209	Pass
75	95	30	60	50.2	101541	Pass
95	95	100	100	100.0	202304	Pass
96	95	5	9	6.5	13235	Pass
173	174	0	2	0.8	1196	Pass
174	95	50	120	78.4	158675	Pass
175	174	5	9	7.7	12162	Pass
176	174	95	101	95.4	151333	Pass
177	176	5	9	6.8	10223	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ2402038-02	I:\ACQUDATA\MSVOA17\Data\022624\E9984.D\	02/26/24 09:56	
Lab Control Sample	RQ2402038-04	I:\ACQUDATA\MSVOA17\Data\022624\E9987.D\	02/26/24 11:36	
Method Blank	RQ2402038-06	I:\ACQUDATA\MSVOA17\Data\022624\E9990.D\	02/26/24 12:45	
OLN-FB003-B007	R2401280-024	I:\ACQUDATA\MSVOA17\Data\022624\K0002.D\	02/26/24 17:31	
OLN-RU020-F007	R2401280-016	I:\ACQUDATA\MSVOA17\Data\022624\K0003.D\	02/26/24 17:54	

QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041 **Date Analyzed:**02/23/24 11:10

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA14\Data\022324\F8366.D\ **Lab Code:**RQ2402015-02
Instrument ID: R-MS-14 **Analysis Lot:**833205
Analysis Method: 8260C **Signal ID:**1

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	391,077	12.03	698,248	6.48	688,764	9.93
	Upper Limit ==>	782,154	12.20	1,396,496	6.65	1,377,528	10.10
	Lower Limit ==>	195,539	11.86	349,124	6.31	344,382	9.76
Associated Analyses							
Lab Control Sample	RQ2402015-03	368902	12.03	710627	6.48	675572	9.93
Method Blank	RQ2402015-04	309811	12.04	653903	6.48	614313	9.93
OLN-TB002-T007	R2401280-005	304278	12.04	649587	6.48	605630	9.93
OLN-TB003-T007	R2401280-007	304350	12.04	649184	6.48	612021	9.93
OLN-FB001-B007	R2401280-004	306674	12.04	656649	6.48	619819	9.93
OLN-FB002-B007	R2401280-012	299119	12.04	623841	6.48	599966	9.93
OLN-CW013-F007	R2401280-002	284547	12.04	610392	6.48	571213	9.93
OLN-CW13A-F007	R2401280-003	292905	12.04	615345	6.48	580432	9.93
OLN-WW18M-F007	R2401280-006	297904	12.04	630911	6.48	583326	9.93
OLN-RU009-F007	R2401280-008	294127	12.04	632312	6.48	582479	9.93
OLN-RU028-F007	R2401280-009	298422	12.04	629553	6.48	588263	9.93
OLN-RU011-F007	R2401280-010	287630	12.04	621263	6.48	579157	9.93
OLN-RU021-F007	R2401280-018	298386	12.04	629737	6.48	589879	9.93
OLN-RU021-F007MS	RQ2402015-05	376255	12.04	684526	6.48	668068	9.93
OLN-RU021-F007DMS	RQ2402015-06	381102	12.04	728298	6.48	684723	9.93

QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041 **Date Analyzed:**02/23/24 11:10

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA14\Data\022324\F8366.D\ **Lab Code:**RQ2402015-02
Instrument ID: R-MS-14 **Analysis Lot:**833205
Analysis Method: 8260C **Signal ID:**1

		Pentafluorobenzene	
		Area	**RT**
	Result ==>	442,204	5.35
	Upper Limit ==>	884,408	5.52
	Lower Limit ==>	221,102	5.18
Associated Analyses			
Lab Control Sample	RQ2402015-03	457770	5.35
Method Blank	RQ2402015-04	411382	5.36
OLN-TB002-T007	R2401280-005	407708	5.35
OLN-TB003-T007	R2401280-007	402614	5.36
OLN-FB001-B007	R2401280-004	416111	5.35
OLN-FB002-B007	R2401280-012	393626	5.36
OLN-CW013-F007	R2401280-002	384145	5.36
OLN-CW13A-F007	R2401280-003	387169	5.36
OLN-WW18M-F007	R2401280-006	395830	5.36
OLN-RU009-F007	R2401280-008	393864	5.36
OLN-RU028-F007	R2401280-009	397317	5.35
OLN-RU011-F007	R2401280-010	390877	5.36
OLN-RU021-F007	R2401280-018	393497	5.35
OLN-RU021-F007MS	RQ2402015-05	432432	5.36
OLN-RU021-F007DMS	RQ2402015-06	483142	5.36

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QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041 **Date Analyzed:**02/25/24 13:48

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA14\Data\022524\F8398.D\ **Lab Code:**RQ2402024-02
Instrument ID: R-MS-14 **Analysis Lot:**833305
Analysis Method: 8260C **Signal ID:**1

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	388,306	12.03	702,932	6.48	678,858	9.93
	Upper Limit ==>	776,612	12.20	1,405,864	6.65	1,357,716	10.10
	Lower Limit ==>	194,153	11.86	351,466	6.31	339,429	9.76
Associated Analyses							
Lab Control Sample	RQ2402024-04	363930	12.04	715756	6.48	673448	9.93
Method Blank	RQ2402024-07	296110	12.03	624348	6.48	585029	9.93
OLN-TB001-T007	R2401280-001	290637	12.03	633305	6.48	583526	9.93
OLN-RU015-F007	R2401280-013	294016	12.04	634998	6.48	590957	9.93
OLN-RU016-F007	R2401280-014	293307	12.04	629619	6.48	581623	9.93
OLN-UA002-F007	R2401280-019	287647	12.04	621263	6.48	581512	9.93
OLN-EB001-E007	R2401280-020	296392	12.04	627549	6.48	590304	9.93
OLN-UA003-F007	R2401280-022	298658	12.04	638775	6.48	596485	9.93
OLN-RU008-F007	R2401280-023	298019	12.04	628625	6.48	594205	9.93
OLN-FD002-D007	R2401280-025	306099	12.04	646164	6.48	614415	9.93
OLN-FD001-D007	R2401280-015	298762	12.03	633573	6.48	595419	9.93
OLN-RU27A-F007	R2401280-011	312224	12.04	660688	6.48	611525	9.93
OLN-RU020-F007	R2401280-016	300781	12.04	617590	6.48	594333	9.93
OLN-RU019-F007	R2401280-017	313331	12.04	647025	6.48	606279	9.93

QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041 **Date Analyzed:**02/25/24 13:48

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA14\Data\022524\F8398.D\ **Lab Code:**RQ2402024-02
Instrument ID: R-MS-14 **Analysis Lot:**833305
Analysis Method: 8260C **Signal ID:**1

		Pentafluorobenzene	
		Area	**RT**
	Result ==>	444,220	5.35
	Upper Limit ==>	888,440	5.52
	Lower Limit ==>	222,110	5.18
Associated Analyses			
Lab Control Sample	RQ2402024-04	457024	5.35
Method Blank	RQ2402024-07	398438	5.36
OLN-TB001-T007	R2401280-001	391935	5.36
OLN-RU015-F007	R2401280-013	399590	5.36
OLN-RU016-F007	R2401280-014	397611	5.35
OLN-UA002-F007	R2401280-019	391178	5.35
OLN-EB001-E007	R2401280-020	399360	5.36
OLN-UA003-F007	R2401280-022	400922	5.36
OLN-RU008-F007	R2401280-023	395035	5.36
OLN-FD002-D007	R2401280-025	411256	5.35
OLN-FD001-D007	R2401280-015	399553	5.36
OLN-RU27A-F007	R2401280-011	423289	5.35
OLN-RU020-F007	R2401280-016	385602	5.35
OLN-RU019-F007	R2401280-017	403688	5.36

QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041 **Date Analyzed:**02/26/24 09:56

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA17\Data\022624\E9984.D\ **Lab Code:**RQ2402038-02
Instrument ID: R-MS-17 **Analysis Lot:**833324
Analysis Method: 8260C **Signal ID:**1

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	316,584	11.68	694,850	6.24	619,912	9.62
	Upper Limit ==>	633,168	11.85	1,389,700	6.41	1,239,824	9.79
	Lower Limit ==>	158,292	11.51	347,425	6.07	309,956	9.45
Associated Analyses							
Lab Control Sample	RQ2402038-04	303645	11.68	678649	6.24	605289	9.62
Method Blank	RQ2402038-06	292521	11.68	686194	6.24	605638	9.62
OLN-FB003-B007	R2401280-024	285722	11.68	668939	6.24	589880	9.62
OLN-RU020-F007	R2401280-016	295648	11.68	670997	6.24	602747	9.62

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QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041 **Date Analyzed:**02/26/24 09:56

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA17\Data\022624\E9984.D\ **Lab Code:**RQ2402038-02
Instrument ID: R-MS-17 **Analysis Lot:**833324
Analysis Method: 8260C **Signal ID:**1

		Pentafluorobenzene	
		Area	**RT**
	Result ==>	469,860	5.08
	Upper Limit ==>	939,720	5.25
	Lower Limit ==>	234,930	4.91
Associated Analyses			
Lab Control Sample	RQ2402038-04	465271	5.08
Method Blank	RQ2402038-06	455517	5.09
OLN-FB003-B007	R2401280-024	444895	5.08
OLN-RU020-F007	R2401280-016	447521	5.09

Volatile Organic Compounds by GC

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QA/QC Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24
Sample Matrix:	Water	**Date Received:**	02/15/24
		Date Analyzed:	02/23/24

Duplicate Matrix Spike Summary
Dissolved Gases by GC/FID

Sample Name:	OLN-RU021-F007	**Units:**	ug/L
Lab Code:	R2401280-018	**Basis:**	NA
Analysis Method:	RSK 175		

		Matrix Spike RQ2401978-04			Duplicate Matrix Spike RQ2401978-05					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Ethane	260 U	5270	5210	101	5330	5210	102	76-126	1	20
Ethene	250 U	4980	4860	102	5030	4860	104	67-132	1	20
Methane	12000 D	19000	5250	133	19300	5250	138	46-143	1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041 **Date Analyzed:** 02/16/24 10:19
Sample Matrix: Water

Method Blank Summary
Dissolved Gases by GC/FID

Sample Name: Method Blank **Instrument ID:**R-GC-70
Lab Code: RQ2401729-02 **File ID:**I:\ACQUDATA\GC-70\DATA\021624\A0300.D\

Analysis Method: RSK 175 **Analysis Lot:**832588

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ2401729-03	I:\ACQUDATA\GC-70\DATA\021624\A0301.D\	02/16/24 10:36
Duplicate Lab Control Sample	RQ2401729-04	I:\ACQUDATA\GC-70\DATA\021624\A0302.D\	02/16/24 10:59
Method Detection Limit Verification	RQ2401729-05	I:\ACQUDATA\GC-70\DATA\021624\A0303.D\	02/16/24 11:17
OLN-RU009-F007	R2401280-008	I:\ACQUDATA\GC-70\DATA\021624\A0310.D\	02/16/24 13:41
OLN-RU028-F007	R2401280-009	I:\ACQUDATA\GC-70\DATA\021624\A0311.D\	02/16/24 13:55
OLN-RU011-F007	R2401280-010	I:\ACQUDATA\GC-70\DATA\021624\A0312.D\	02/16/24 14:09
OLN-RU27A-F007	R2401280-011	I:\ACQUDATA\GC-70\DATA\021624\A0314.D\	02/16/24 14:36
OLN-FB002-B007	R2401280-012	I:\ACQUDATA\GC-70\DATA\021624\A0315.D\	02/16/24 14:50
OLN-RU015-F007	R2401280-013	I:\ACQUDATA\GC-70\DATA\021624\A0316.D\	02/16/24 15:04
OLN-RU016-F007	R2401280-014	I:\ACQUDATA\GC-70\DATA\021624\A0317.D\	02/16/24 15:19
OLN-FD001-D007	R2401280-015	I:\ACQUDATA\GC-70\DATA\021624\A0318.D\	02/16/24 15:32
OLN-RU020-F007	R2401280-016	I:\ACQUDATA\GC-70\DATA\021624\A0320.D\	02/16/24 16:00
OLN-RU019-F007	R2401280-017	I:\ACQUDATA\GC-70\DATA\021624\A0321.D\	02/16/24 16:14
OLN-RU019-F007	R2401280-017	I:\ACQUDATA\GC-70\DATA\021624\A0322.D\	02/16/24 16:28

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041 **Date Analyzed:** 02/23/24 10:57
Sample Matrix: Water

Method Blank Summary
Dissolved Gases by GC/FID

Sample Name: Method Blank **Instrument ID:**R-GC-70
Lab Code: RQ2401978-02 **File ID:**I:\ACQUDATA\GC-70\DATA\022324\A0327.D\

Analysis Method: RSK 175 **Analysis Lot:**833176

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ2401978-03	I:\ACQUDATA\GC-70\DATA\022324\A0328.D\	02/23/24 11:11
OLN-RU021-F007	R2401280-018	I:\ACQUDATA\GC-70\DATA\022324\A0329.D\	02/23/24 11:27
OLN-RU021-F007	R2401280-018	I:\ACQUDATA\GC-70\DATA\022324\A0330.D\	02/23/24 11:41
OLN-RU021-F007MS	RQ2401978-04	I:\ACQUDATA\GC-70\DATA\022324\A0331.D\	02/23/24 11:56
OLN-RU021-F007DMS	RQ2401978-05	I:\ACQUDATA\GC-70\DATA\022324\A0332.D\	02/23/24 12:10
OLN-UA002-F007	R2401280-019	I:\ACQUDATA\GC-70\DATA\022324\A0333.D\	02/23/24 12:46
OLN-EB001-E007	R2401280-020	I:\ACQUDATA\GC-70\DATA\022324\A0334.D\	02/23/24 13:00
OLN-UA003-F007	R2401280-022	I:\ACQUDATA\GC-70\DATA\022324\A0335.D\	02/23/24 13:13
OLN-RU008-F007	R2401280-023	I:\ACQUDATA\GC-70\DATA\022324\A0336.D\	02/23/24 13:37
OLN-FB003-B007	R2401280-024	I:\ACQUDATA\GC-70\DATA\022324\A0337.D\	02/23/24 13:50
OLN-FD002-D007	R2401280-025	I:\ACQUDATA\GC-70\DATA\022324\A0338.D\	02/23/24 14:05

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2401729-02	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	02/16/24 10:19	
Ethene	5.0 U	5.0	0.35	1	02/16/24 10:19	
Methane	5.2 U	5.2	3.0	1	02/16/24 10:19	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2401978-02	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	02/23/24 10:57	
Ethene	5.0 U	5.0	0.35	1	02/23/24 10:57	
Methane	5.2 U	5.2	3.0	1	02/23/24 10:57	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041 **Date Analyzed:** 02/16/24 10:36
Sample Matrix: Water

Lab Control Sample Summary
Dissolved Gases by GC/FID

Sample Name: Lab Control Sample **Instrument ID:**R-GC-70
Lab Code: RQ2401729-03 **File ID:**I:\ACQUDATA\GC-70\DATA\021624\A0301.D\

Analysis Method: RSK 175 **Analysis Lot:**832588

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ2401729-02	I:\ACQUDATA\GC-70\DATA\021624\A0300.D\	02/16/24 10:19
Duplicate Lab Control Sample	RQ2401729-04	I:\ACQUDATA\GC-70\DATA\021624\A0302.D\	02/16/24 10:59
Method Detection Limit Verification	RQ2401729-05	I:\ACQUDATA\GC-70\DATA\021624\A0303.D\	02/16/24 11:17
OLN-RU009-F007	R2401280-008	I:\ACQUDATA\GC-70\DATA\021624\A0310.D\	02/16/24 13:41
OLN-RU028-F007	R2401280-009	I:\ACQUDATA\GC-70\DATA\021624\A0311.D\	02/16/24 13:55
OLN-RU011-F007	R2401280-010	I:\ACQUDATA\GC-70\DATA\021624\A0312.D\	02/16/24 14:09
OLN-RU27A-F007	R2401280-011	I:\ACQUDATA\GC-70\DATA\021624\A0314.D\	02/16/24 14:36
OLN-FB002-B007	R2401280-012	I:\ACQUDATA\GC-70\DATA\021624\A0315.D\	02/16/24 14:50
OLN-RU015-F007	R2401280-013	I:\ACQUDATA\GC-70\DATA\021624\A0316.D\	02/16/24 15:04
OLN-RU016-F007	R2401280-014	I:\ACQUDATA\GC-70\DATA\021624\A0317.D\	02/16/24 15:19
OLN-FD001-D007	R2401280-015	I:\ACQUDATA\GC-70\DATA\021624\A0318.D\	02/16/24 15:32
OLN-RU020-F007	R2401280-016	I:\ACQUDATA\GC-70\DATA\021624\A0320.D\	02/16/24 16:00
OLN-RU019-F007	R2401280-017	I:\ACQUDATA\GC-70\DATA\021624\A0321.D\	02/16/24 16:14
OLN-RU019-F007	R2401280-017	I:\ACQUDATA\GC-70\DATA\021624\A0322.D\	02/16/24 16:28

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Analyzed:**	02/23/24 11:11
Sample Matrix:	Water		

Lab Control Sample Summary
Dissolved Gases by GC/FID

Sample Name: Lab Control Sample **Instrument ID:**R-GC-70
Lab Code: RQ2401978-03 **File ID:**I:\ACQUDATA\GC-70\DATA\022324\A0328.D\

Analysis Method: RSK 175 **Analysis Lot:**833176

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ2401978-02	I:\ACQUDATA\GC-70\DATA\022324\A0327.D\	02/23/24 10:57
OLN-RU021-F007	R2401280-018	I:\ACQUDATA\GC-70\DATA\022324\A0329.D\	02/23/24 11:27
OLN-RU021-F007	R2401280-018	I:\ACQUDATA\GC-70\DATA\022324\A0330.D\	02/23/24 11:41
OLN-RU021-F007MS	RQ2401978-04	I:\ACQUDATA\GC-70\DATA\022324\A0331.D\	02/23/24 11:56
OLN-RU021-F007DMS	RQ2401978-05	I:\ACQUDATA\GC-70\DATA\022324\A0332.D\	02/23/24 12:10
OLN-UA002-F007	R2401280-019	I:\ACQUDATA\GC-70\DATA\022324\A0333.D\	02/23/24 12:46
OLN-EB001-E007	R2401280-020	I:\ACQUDATA\GC-70\DATA\022324\A0334.D\	02/23/24 13:00
OLN-UA003-F007	R2401280-022	I:\ACQUDATA\GC-70\DATA\022324\A0335.D\	02/23/24 13:13
OLN-RU008-F007	R2401280-023	I:\ACQUDATA\GC-70\DATA\022324\A0336.D\	02/23/24 13:37
OLN-FB003-B007	R2401280-024	I:\ACQUDATA\GC-70\DATA\022324\A0337.D\	02/23/24 13:50
OLN-FD002-D007	R2401280-025	I:\ACQUDATA\GC-70\DATA\022324\A0338.D\	02/23/24 14:05

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QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041
Sample Matrix: Water

Service Request: R2401280
Date Analyzed: 02/23/24

Lab Control Sample Summary
Dissolved Gases by GC/FID

Units:ug/L
Basis:NA

Lab Control Sample
RQ2401978-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Ethane	RSK 175	143	130	110	85-115
Ethene	RSK 175	138	121	114	85-115
Methane	RSK 175	148	131	113	85-115

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041
Sample Matrix: Water

Service Request: R2401280
Date Analyzed: 02/16/24

Duplicate Lab Control Sample Summary
Dissolved Gases by GC/FID

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2401729-03			RQ2401729-04					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Ethane	RSK 175	134	130	103	132	130	102	85-115	1	20
Ethene	RSK 175	129	121	106	128	121	106	85-115	<1	20
Methane	RSK 175	140	131	107	136	131	103	85-115	3	20

Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24
Sample Matrix:	Water	**Date Received:**	02/15/24
		Date Analyzed:	02/20/24

Duplicate Matrix Spike Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Sample Name:	OLN-RU009-F007	**Units:**	mg/L
Lab Code:	R2401280-008	**Basis:**	NA
Analysis Method:	Organic Acids		

		Matrix Spike RQ2401840-05			Duplicate Matrix Spike RQ2401840-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Acetic Acid	1.0 U	17.2	20.0	86	18.1	20.0	90	10-179	5	30
Butanoic Acid (Butyric Acid)	10 U	19.1	20.0	96	21.0	20.0	105	39-161	9	30
Propionic Acid	1.5 J	19.3	20.0	89	20.7	20.0	96	49-162	7	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24
Sample Matrix:	Water	**Date Received:**	02/15/24
		Date Analyzed:	02/22/24

Duplicate Matrix Spike Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Sample Name:	OLN-RU021-F007	**Units:**	mg/L
Lab Code:	R2401280-018	**Basis:**	NA
Analysis Method:	Organic Acids		

		Matrix Spike RQ2401989-05			Duplicate Matrix Spike RQ2401989-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Acetic Acid	89	106	20.0	82 #	105	20.0	80 #	10-179	<1	30
Butanoic Acid (Butyric Acid)	8.2 J	27.9	20.0	98	29.8	20.0	108	39-161	7	30
Propionic Acid	17	37.1	20.0	100	37.9	20.0	104	49-162	2	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Analyzed:**	02/20/24 13:41
Sample Matrix:	Water		

Method Blank Summary

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Sample Name:	Method Blank	**Instrument ID:**	R-HPLC-05
Lab Code:	RQ2401840-01	**File ID:**	I:\ACQUDATA\HPLC05\data\022024\A0011139.D\
Analysis Method:	Organic Acids	**Analysis Lot:**	832893

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ2401840-02	I:\ACQUDATA\HPLC05\data\022024 \A0011140.D\	02/20/24 14:26
Duplicate Lab Control Sample	RQ2401840-03	I:\ACQUDATA\HPLC05\data\022024 \A0011141.D\	02/20/24 15:13
OLN-RU009-F007	R2401280-008	I:\ACQUDATA\HPLC05\data\022024 \A0011142.D\	02/20/24 16:02
OLN-RU009-F007MS	RQ2401840-05	I:\ACQUDATA\HPLC05\data\022024 \A0011143.D\	02/20/24 16:49
OLN-RU009-F007DMS	RQ2401840-06	I:\ACQUDATA\HPLC05\data\022024 \A0011145.D\	02/20/24 18:24
OLN-RU028-F007	R2401280-009	I:\ACQUDATA\HPLC05\data\022024 \A0011146.D\	02/20/24 19:11
OLN-RU011-F007	R2401280-010	I:\ACQUDATA\HPLC05\data\022024 \A0011147.D\	02/20/24 19:56
OLN-FB002-B007	R2401280-012	I:\ACQUDATA\HPLC05\data\022024 \A0011149.D\	02/20/24 21:31
OLN-RU015-F007	R2401280-013	I:\ACQUDATA\HPLC05\data\022024 \A0011151.D\	02/20/24 23:07

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Analyzed:**	02/21/24 17:20
Sample Matrix:	Water		

Method Blank Summary

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Sample Name: Method Blank **Instrument ID:** R-HPLC-05

Lab Code: RQ2401989-02 **File ID:** I:\ACQUDATA\HPLC05\data\022124\A0011163.D\

Analysis Method: Organic Acids **Analysis Lot:** 833209

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ2401989-03	I:\ACQUDATA\HPLC05\data\022124 \A0011164.D\	02/21/24 18:08
Duplicate Lab Control Sample	RQ2401989-04	I:\ACQUDATA\HPLC05\data\022124 \A0011165.D\	02/21/24 18:55
OLN-RU27A-F007	R2401280-011	I:\ACQUDATA\HPLC05\data\022124 \A0011166.D\	02/21/24 19:44
OLN-RU016-F007	R2401280-014	I:\ACQUDATA\HPLC05\data\022124 \A0011167.D\	02/21/24 20:31
OLN-FD001-D007	R2401280-015	I:\ACQUDATA\HPLC05\data\022124 \A0011169.D\	02/21/24 22:06
OLN-RU020-F007	R2401280-016	I:\ACQUDATA\HPLC05\data\022124 \A0011170.D\	02/21/24 22:53
OLN-RU019-F007	R2401280-017	I:\ACQUDATA\HPLC05\data\022124 \A0011171.D\	02/21/24 23:40
OLN-RU021-F007	R2401280-018	I:\ACQUDATA\HPLC05\data\022124 \A0011172.D\	02/22/24 00:28
OLN-RU021-F007MS	RQ2401989-05	I:\ACQUDATA\HPLC05\data\022124 \A0011173.D\	02/22/24 01:15
OLN-RU021-F007DMS	RQ2401989-06	I:\ACQUDATA\HPLC05\data\022124 \A0011175.D\	02/22/24 02:49
OLN-UA002-F007	R2401280-019	I:\ACQUDATA\HPLC05\data\022124 \A0011176.D\	02/22/24 03:37
OLN-EB001-E007	R2401280-020	I:\ACQUDATA\HPLC05\data\022124 \A0011177.D\	02/22/24 04:24
OLN-UA003-F007	R2401280-022	I:\ACQUDATA\HPLC05\data\022124 \A0011178.D\	02/22/24 05:11
OLN-RU008-F007	R2401280-023	I:\ACQUDATA\HPLC05\data\022124 \A0011180.D\	02/22/24 06:45
OLN-FB003-B007	R2401280-024	I:\ACQUDATA\HPLC05\data\022124 \A0011181.D\	02/22/24 07:32
OLN-FD002-D007	R2401280-025	I:\ACQUDATA\HPLC05\data\022124 \A0011182.D\	02/22/24 08:20

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	mg/L
Lab Code:	RQ2401840-01	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0	U	1.0	0.56	1	02/20/24 13:41	
Butanoic Acid (Butyric Acid)	10	U	10	5.0	1	02/20/24 13:41	
Propionic Acid	2.0	U	2.0	1.1	1	02/20/24 13:41	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	mg/L
Lab Code:	RQ2401989-02	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0	U	1.0	0.56	1	02/21/24 17:20	
Butanoic Acid (Butyric Acid)	10	U	10	5.0	1	02/21/24 17:20	
Propionic Acid	2.0	U	2.0	1.1	1	02/21/24 17:20	

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Analyzed:**	02/20/24 14:26
Sample Matrix:	Water		

Lab Control Sample Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Sample Name:	Lab Control Sample	**Instrument ID:**	R-HPLC-05
Lab Code:	RQ2401840-02	**File ID:**	I:\ACQUDATA\HPLC05\data\022024\A0011140.D\
Analysis Method:	Organic Acids	**Analysis Lot:**	832893

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ2401840-01	I:\ACQUDATA\HPLC05\data\022024 \A0011139.D\	02/20/24 13:41
Duplicate Lab Control Sample	RQ2401840-03	I:\ACQUDATA\HPLC05\data\022024 \A0011141.D\	02/20/24 15:13
OLN-RU009-F007	R2401280-008	I:\ACQUDATA\HPLC05\data\022024 \A0011142.D\	02/20/24 16:02
OLN-RU009-F007MS	RQ2401840-05	I:\ACQUDATA\HPLC05\data\022024 \A0011143.D\	02/20/24 16:49
OLN-RU009-F007DMS	RQ2401840-06	I:\ACQUDATA\HPLC05\data\022024 \A0011145.D\	02/20/24 18:24
OLN-RU028-F007	R2401280-009	I:\ACQUDATA\HPLC05\data\022024 \A0011146.D\	02/20/24 19:11
OLN-RU011-F007	R2401280-010	I:\ACQUDATA\HPLC05\data\022024 \A0011147.D\	02/20/24 19:56
OLN-FB002-B007	R2401280-012	I:\ACQUDATA\HPLC05\data\022024 \A0011149.D\	02/20/24 21:31
OLN-RU015-F007	R2401280-013	I:\ACQUDATA\HPLC05\data\022024 \A0011151.D\	02/20/24 23:07

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041 **Date Analyzed:** 02/21/24 18:08
Sample Matrix: Water

Lab Control Sample Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Sample Name: Lab Control Sample **Instrument ID:**R-HPLC-05
Lab Code: RQ2401989-03 **File ID:**I:\ACQUDATA\HPLC05\data\022124\A0011164.D\

Analysis Method: Organic Acids **Analysis Lot:**833209

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ2401989-02	I:\ACQUDATA\HPLC05\data\022124 \A0011163.D\	02/21/24 17:20
Duplicate Lab Control Sample	RQ2401989-04	I:\ACQUDATA\HPLC05\data\022124 \A0011165.D\	02/21/24 18:55
OLN-RU27A-F007	R2401280-011	I:\ACQUDATA\HPLC05\data\022124 \A0011166.D\	02/21/24 19:44
OLN-RU016-F007	R2401280-014	I:\ACQUDATA\HPLC05\data\022124 \A0011167.D\	02/21/24 20:31
OLN-FD001-D007	R2401280-015	I:\ACQUDATA\HPLC05\data\022124 \A0011169.D\	02/21/24 22:06
OLN-RU020-F007	R2401280-016	I:\ACQUDATA\HPLC05\data\022124 \A0011170.D\	02/21/24 22:53
OLN-RU019-F007	R2401280-017	I:\ACQUDATA\HPLC05\data\022124 \A0011171.D\	02/21/24 23:40
OLN-RU021-F007	R2401280-018	I:\ACQUDATA\HPLC05\data\022124 \A0011172.D\	02/22/24 00:28
OLN-RU021-F007MS	RQ2401989-05	I:\ACQUDATA\HPLC05\data\022124 \A0011173.D\	02/22/24 01:15
OLN-RU021-F007DMS	RQ2401989-06	I:\ACQUDATA\HPLC05\data\022124 \A0011175.D\	02/22/24 02:49
OLN-UA002-F007	R2401280-019	I:\ACQUDATA\HPLC05\data\022124 \A0011176.D\	02/22/24 03:37
OLN-EB001-E007	R2401280-020	I:\ACQUDATA\HPLC05\data\022124 \A0011177.D\	02/22/24 04:24
OLN-UA003-F007	R2401280-022	I:\ACQUDATA\HPLC05\data\022124 \A0011178.D\	02/22/24 05:11
OLN-RU008-F007	R2401280-023	I:\ACQUDATA\HPLC05\data\022124 \A0011180.D\	02/22/24 06:45
OLN-FB003-B007	R2401280-024	I:\ACQUDATA\HPLC05\data\022124 \A0011181.D\	02/22/24 07:32
OLN-FD002-D007	R2401280-025	I:\ACQUDATA\HPLC05\data\022124 \A0011182.D\	02/22/24 08:20

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041
Sample Matrix: Water

Service Request: R2401280
Date Analyzed: 02/20/24

Duplicate Lab Control Sample Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Units:mg/L
Basis:NA

		Lab Control Sample RQ2401840-02			Duplicate Lab Control Sample RQ2401840-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Acetic Acid	Organic Acids	19.3	20.0	97	18.2	20.0	91	80-130	6	30
Butanoic Acid (Butyric Acid)	Organic Acids	21.6	20.0	108	19.7	20.0	99	86-128	9	30
Propionic Acid	Organic Acids	21.9	20.0	109	20.3	20.0	102	63-153	7	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041
Sample Matrix: Water

Service Request: R2401280
Date Analyzed: 02/21/24

Duplicate Lab Control Sample Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Units:mg/L
Basis:NA

		Lab Control Sample RQ2401989-03			Duplicate Lab Control Sample RQ2401989-04					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Acetic Acid	Organic Acids	19.9	20.0	100	18.3	20.0	92	80-130	8	30
Butanoic Acid (Butyric Acid)	Organic Acids	21.3	20.0	107	20.7	20.0	103	86-128	3	30
Propionic Acid	Organic Acids	22.7	20.0	113	20.6	20.0	103	63-153	9	30

Metals

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Form 2

Calibration Verifications

Metals by EPA 6010C

Workorder

R2401280

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 - 6 Month Sampling 2024

06/07/2024

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Form 2 - Calibration Verifications

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

R-ICP-AES-07_833055		ICV			CCV			LLCCV			CCV			CCV			CCV		
Units ug/L	**Run Date**	02/21/24			02/21/24			02/21/24			02/21/24			02/21/24			02/21/24		
	Run Time	14:05			19:18			19:24			19:34			20:13			20:52		
Analyte		Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q
Arsenic		0.994	**99**		0.985	**98**		0.0199	**100**		0.997	**100**		0.992	**99**		0.990	**99**	
Iron		5.02	**100**		5.10	**102**		0.111	**111**		5.15	**103**		5.14	**103**		5.11	**102**	
Manganese		0.746	**99**		0.757	**101**		0.0155	**103**		0.760	**101**		0.763	**102**		0.757	**101**	

R-ICP-AES-07_833055		CCV			LLCCV			CCV		
Units ppm	**Run Date**	02/21/24			02/21/24			02/21/24		
	Run Time	21:17			21:24			21:34		
Analyte		Found	%R	Q	Found	%R	Q	Found	%R	Q
Arsenic		0.988	**99**		0.0204	**102**		0.995	**100**	
Iron		5.13	**103**		0.111	**111**		5.16	**103**	
Manganese		0.761	**101**		0.0155	**103**		0.761	**101**	

QC ID	%R Limits	
CCV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn
ICV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn
ICV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn
LLCCV	70 - 130	**0.02** - As; **0.1** - Fe; **0.0150** - Mn

Form 2 - Calibration Verifications

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

R-ICP-AES-07_833056		ICV			CCV			LLCCV			CCV			CCV			CCV		
Units ug/L	**Run Date**	02/21/24			02/21/24			02/21/24			02/21/24			02/21/24			02/21/24		
	Run Time	14:05			21:17			21:24			21:34			22:12			22:51		
Analyte		Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q
Arsenic		0.994	**99**		0.988	**99**		0.0204	**102**		0.995	**100**		0.991	**99**		0.982	**98**	
Iron		5.02	**100**		5.13	**103**		0.111	**111**		5.16	**103**		5.12	**102**		5.10	**102**	
Manganese		0.746	**99**		0.761	**101**		0.0155	**103**		0.761	**101**		0.759	**101**		0.757	**101**	

R-ICP-AES-07_833056		CCV			LLCCV			CCV		
Units ppm	**Run Date**	02/21/24			02/21/24			02/21/24		
	Run Time	23:04			23:10			23:20		
Analyte		Found	%R	Q	Found	%R	Q	Found	%R	Q
Arsenic		0.993	**99**		0.0197	**99**		0.993	**99**	
Iron		5.12	**102**		0.111	**111**		5.15	**103**	
Manganese		0.759	**101**		0.0155	**103**		0.759	**101**	

QC ID	%R Limits	
CCV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn
ICV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn
ICV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn
LLCCV	70 - 130	**0.02** - As; **0.1** - Fe; **0.0150** - Mn

Form 2 - Calibration Verifications

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

R-ICP-AES-07_833186		ICV			LLCCV			CCV			CCV			CCV			CCV		
Units ppm	**Run Date**	02/22/24			02/22/24			02/22/24			02/22/24			02/22/24			02/22/24		
	Run Time	15:21			15:28			15:38			16:03			16:39			17:08		
Analyte		Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q
Manganese		0.742	**99**		0.0153	**102**		0.744	**99**		0.744	**99**		0.746	**99**		0.748	**100**	

R-ICP-AES-07_833186		CCV			LLCCV			CCV		
Units ppm	**Run Date**	02/22/24			02/22/24			02/22/24		
	Run Time	17:47			17:53			18:13		
Analyte		Found	%R	Q	Found	%R	Q	Found	%R	Q
Manganese		0.748	**100**		0.0154	**103**		0.749	**100**	

QC ID	%R Limits	
CCV	90 - 110	**0.750** - Mn
ICV	90 - 110	**0.750** - Mn
LLCCV	70 - 130	**0.0150** - Mn

Form 2 - Calibration Verifications

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

R-ICP-AES-07_833320		ICV			LLCCV			CCV			CCV			LLCCV			CCV		
Units ppm	**Run Date**	02/23/24			02/23/24			02/23/24			02/23/24			02/23/24			02/23/24		
	Run Time	13:37			13:43			13:53			14:32			14:38			14:58		
Analyte		Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q
Iron		5.01	**100**		0.108	**108**		5.03	**101**		5.01	**100**		0.108	**108**		5.02	**100**	

QC ID	%R Limits	
CCV	90 - 110	**5.0** - Fe
ICV	90 - 110	**5.0** - Fe
LLCCV	70 - 130	**0.1** - Fe

Form 3

Blanks

Metals by EPA 6010C

Workorder

R2401280

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 - 6 Month Sampling 2024

06/07/2024

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Form 3 - Blanks

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

R-ICP-AES-07_833055			ICB		CCB		CCB		CCB		CCB		CCB	
		Run Date	02/21/24		02/21/24		02/21/24		02/21/24		02/21/24		02/21/24	
		Run Time	14:08		19:21		19:37		20:16		20:55		21:21	
		Units	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Analyte	DL	LOQ	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Arsenic	6	10	6	U	6	U	6	U	6	U	6	U	6	U
Iron	70	100	70	U	70	U	70	U	70	U	70	U	70	U
Manganese	4	10	4	U	4	U	4	U	4	U	4	U	4	U

R-ICP-AES-07_833055			CCB		
		Run Date	02/21/24		
		Run Time	21:37		
		Units	ug/L		
Analyte	DL	LOQ	Result	Q	
Arsenic	6	10	6	U	
Iron	70	100	70	U	
Manganese	4	10	4	U	

Q - Result Flag * - Result Outside Limits

Form 3 - Blanks

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

R-ICP-AES-07_833056			ICB		CCB		CCB		CCB		CCB		CCB	
		Run Date	02/21/24		02/21/24		02/21/24		02/21/24		02/21/24		02/21/24	
		Run Time	14:08		21:21		21:37		22:16		22:54		23:07	
		Units	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Analyte	DL	LOQ	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Arsenic	6	10	6	U	6	U	6	U	6	U	6	U	6	U
Iron	70	100	70	U	70	U	70	U	70	U	70	U	70	U
Manganese	4	10	4	U	4	U	4	U	4	U	4	U	4	U

R-ICP-AES-07_833056			CCB		
		Run Date	02/21/24		
		Run Time	23:23		
		Units	ug/L		
Analyte	DL	LOQ	Result	Q	
Arsenic	6	10	6	U	
Iron	70	100	70	U	
Manganese	4	10	4	U	

Form 3 - Blanks

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

R-ICP-AES-07_833186			ICB		CCB		CCB		CCB		CCB		CCB	
		Run Date	02/22/24		02/22/24		02/22/24		02/22/24		02/22/24		02/22/24	
		Run Time	15:25		15:41		16:07		16:42		17:11		17:50	
		Units	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Analyte	DL	LOQ	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Manganese	4	10	4	U	4	U	4	U	4	U	4	U	4	U

R-ICP-AES-07_833186			CCB		
		Run Date	02/22/24		
		Run Time	18:16		
		Units	ug/L		
Analyte	DL	LOQ	Result	Q	
Manganese	4	10	4	U	

Form 3 - Blanks

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

R-ICP-AES-07_833320			ICB		CCB		CCB		CCB		
		Run Date	02/23/24		02/23/24		02/23/24		02/23/24		
		Run Time	13:40		13:56		14:35		15:01		
		Units	ug/L		ug/L		ug/L		ug/L		
Analyte	DL	LOQ	Result	Q	Result	Q	Result	Q	Result	Q	
Iron	70	100	70	U	70	U	70	U	70	U	

Form 4

Interference Checks

Metals by EPA 6010C

Workorder

R2401280

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 - 6 Month Sampling 2024

06/07/2024

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Form 4 - Interference Checks

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C

R-ICP-AES-07_833055				ICSA1			ICSAB1			ICSA2			ICSAB2		
Units ug/L			**Run Date**	02/21/24			02/21/24			02/21/24			02/21/24		
			Run Time	19:28			19:31			21:27			21:30		
Analyte	ICSA True	ICSAB True	Limits	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q
Arsenic, Dissolved	NA	100	80-120	6U	NS		90	**90**		6U	NS		89	**89**	
Iron, Dissolved	100000	100000	80-120	95400	**95**		96300	**96**		95600	**96**		96600	**97**	
Manganese, Dissolved	NA	500	80-120	4U	NS		499	**100**		4U	NS		501	**100**	

Q - Flag Recovery (%R) Failure (Spiked Analytes) Spiked Analyte %R Limits 80-120% * - % Recovery Outside of Limits

Q - Found Conc. above Limit (non-Spiked Analytes) non-Spiked Analyte Limit is Limits * - Found Conc. Above Limit

Form 4 - Interference Checks

Client Civil & Environmental Consultants, Incorporated (CEC)

Project Olean OU3 - 6 Month Sampling 2024

Workorder **R2401280**

Metals by EPA 6010C

R-ICP-AES-07_833056				ICSA1			ICSAB1			ICSA2			ICSAB2		
Units ug/L			**Run Date**	02/21/24			02/21/24			02/21/24			02/21/24		
			Run Time	21:27			21:30			23:14			23:17		
Analyte	ICSA True	ICSAB True	Limits	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q
Arsenic, Dissolved	NA	100	80-120	6U	NS		89	**89**		6U	NS		92	**92**	
Iron, Dissolved	100000	100000	80-120	95600	**96**		96600	**97**		95700	**96**		96600	**97**	
Manganese, Dissolved	NA	500	80-120	4U	NS		501	**100**		4U	NS		500	**100**	

Q - Flag Recovery (%R) Failure (Spiked Analytes)

Q - Found Conc. above Limit (non-Spiked Analytes)

Spiked Analyte %R Limits 80-120%

non-Spiked Analyte Limit is Limits

* - % Recovery Outside of Limits

* - Found Conc. Above Limit

Form 4 - Interference Checks

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C

R-ICP-AES-07_833186				ICSA1			ICSAB1			ICSA2			ICSAB2		
Units ug/L			**Run Date**	02/22/24			02/22/24			02/22/24			02/22/24		
			Run Time	15:31			15:34			17:57			18:00		
Analyte	ICSA True	ICSAB True	Limits	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q
Manganese, Dissolved	NA	500	80-120	4U	NS		494	**99**		4U	NS		498	**100**	

Q - Flag Recovery (%R) Failure (Spiked Analytes)
Spiked Analyte %R Limits 80-120%
* - % Recovery Outside of Limits

Q - Found Conc. above Limit (non-Spiked Analytes)
non-Spiked Analyte Limit is Limits
* - Found Conc. Above Limit

Form 4 - Interference Checks

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C

R-ICP-AES-07_833320				ICSA1			ICSAB1			ICSA2			ICSAB2		
Units ug/L			**Run Date**	02/23/24			02/23/24			02/23/24			02/23/24		
			Run Time	13:47			13:50			14:42			14:45		
Analyte	ICSA True	ICSAB True	Limits	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q
Iron, Dissolved	100000	100000	80-120	94100	**94**		95000	**95**		94200	**94**		95100	**95**	

Q - Flag Recovery (%R) Failure (Spiked Analytes)
Spiked Analyte %R Limits 80-120%
* - % Recovery Outside of Limits

Q - Found Conc. above Limit (non-Spiked Analytes)
non-Spiked Analyte Limit is Limits
* - Found Conc. Above Limit

Form 5A

Matrix Spike Sample Recovery

Metals by EPA 6010C

Workorder

R2401280

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 - 6 Month Sampling 2024

06/07/2024

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Form 5A - Matrix Spike Sample Recovery

Client Civil & Environmental Consultants, Incorporated (CEC)

Project Olean OU3 - 6 Month Sampling 2024

Workorder **R2401280**

RunID R-ICP-AES-07-833055

Metals by EPA 6010C (P)

OLN-RU021-F007 (R2401280-018)				R2401280-018MS				R2401280-018DMS						
Sample Matrix	Water	**Analysis Batch**	833055	**Run Date**	02/21/24			**Run Date**	02/21/24					
Result Units	ug/L	**Prep Batch**	434254	**Run Time**	20:42			**Run Time**	20:45					
Prep Method	EPA	**Prep Date**	02/20/2024	**Prep Amt**	50 mL			**Prep Amt**	50 mL					

Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Arsenic, Dissolved	75-125	1	76	116.20	40	**101**		110.60	40	**87**		20	**5**	
Manganese, Dissolved	75-125	1	4740	5158.60	500	NC		4911.60	500	NC		20	**5**	

RPD Relative Percent Difference **%R** %Recovery **Q** %R or RPD Flag **NC** Not Calculated **DF** Dilution Factor

MS\D Matrix Spike \Duplicate **OOL** Out of Limits * %R or RPD OOL **NS** Not Spiked **Amt** weight or volume

Form 5A - Matrix Spike Sample Recovery

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

RunID

Metals by EPA 6010C (P)

R-ICP-AES-07-833320

OLN-RU021-F007 (R2401280-018)				R2401280-018MS				R2401280-018DMS						
Sample Matrix	Water	**Analysis Batch**	833320	**Run Date**	02/23/24			**Run Date**	02/23/24					
Result Units	ug/L	**Prep Batch**	434254	**Run Time**	14:19			**Run Time**	14:22					
Prep Method	EPA	**Prep Date**	02/20/2024	**Prep Amt**	50 mL			**Prep Amt**	50 mL					

Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Iron, Dissolved	75-125	20	57400	56830	1000	NC		54344	1000	NC		20	**4**	

RPD Relative Percent Difference **%R** %Recovery **Q** %R or RPD Flag **NC** Not Calculated **DF** Dilution Factor
MS\D Matrix Spike \Duplicate **OOL** Out of Limits * %R or RPD OOL **NS** Not Spiked **Amt** weight or volume

Form 5B

Post-Digestion Spike Sample Recovery

Metals by EPA 6010C

Workorder

R2401280

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 - 6 Month Sampling 2024

06/07/2024

ALS Environmental–Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Form 5B - Post-Digestion Spike Sample Recovery

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

OLN-RU021-F007 (PDS)	Matrix	Units	DF	Analysis Date
RQ2401931-21	Water	ug/L	1	02/21/24 2048

Analyte	Spike Added	Sample Result	Q	PDS Result	Q	%R	Q	%R Limits
Arsenic, Dissolved	40	76		117		104		75-125
Manganese, Dissolved	500	4740		5070		NC		75-125

- %Recovery Flag * - %Recovery Outside Limits NC - Not Calculated NS - Not Spiked

Form 5B - Post-Digestion Spike Sample Recovery

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

OLN-RU021-F007 (PDS)	Matrix	Units	DF	Analysis Date
RQ2402036-15	Water	ug/L	20	02/23/24 1425

Analyte	Spike Added	Sample Result	Q	PDS Result	Q	%R	Q	%R Limits
Iron, Dissolved	1000	57400		74900		NC		75-125

- %Recovery Flag * - %Recovery Outside Limits NC - Not Calculated NS - Not Spiked

Form 7

Laboratory Control Sample

Metals by EPA 6010C

Workorder

R2401280

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 - 6 Month Sampling 2024

06/07/2024

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Form 7 - Laboratory Control Sample

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

RunID

Metals by EPA 6010C (P)

R-ICP-AES-07-833055

R-ICP-AES-07_833055				R2401280-LCS1		
Spike Matrix	Water	**Result Units**	ug/L	**Run Date**	02/21/24	
Prep Date	02/20/24	**Analysis Batch**	833055	**Run Time**	19:44	
Prep Method	EPA 3005A/3010A	**Prep Batch**	434254	**Prep Amt**	50 mL	

Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q
Arsenic, Dissolved	80-120	40	38	**95**	
Iron, Dissolved	80-120	1000	996	**100**	
Manganese, Dissolved	80-120	500	491	**98**	

Form 7 - Laboratory Control Sample

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

RunID

Metals by EPA 6010C (P)

R-ICP-AES-07-833056

R-ICP-AES-07_833056				R2401280-LCS2	
Spike Matrix	Water	**Result Units**	ug/L	**Run Date**	02/21/24
Prep Date	02/20/24	**Analysis Batch**	833056	**Run Time**	21:43
Prep Method	EPA 3005A/3010A	**Prep Batch**	434255	**Prep Amt**	50 mL

Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q
Arsenic, Dissolved	80-120	40	39	**98**	
Iron, Dissolved	80-120	1000	1010	**101**	
Manganese, Dissolved	80-120	500	496	**99**	

Form 9

ICP Serial Dilutions

Metals by EPA 6010C

Workorder

R2401280

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 - 6 Month Sampling 2024

06/07/2024

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Form 9 - ICP Serial Dilutions

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

OLN-RU021-F007 (SD)	**Matrix**	**Units**	**Analysis Date**
RQ2401931-22	Water	ug/L	02/21/24 2058

Analyte	Dilution	DL	LOQ	Sample Result	SD Result	Diff	Q	DL x 50
Arsenic, Dissolved	5	6	10	76	82	NC		300
Manganese, Dissolved	5	4	10	4740	4930	4		200

NC - Sample and/or Serial Dilution result(s) do not meet criteria for evaluation. %Diff Not Calculated.

Form 9 - ICP Serial Dilutions

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

OLN-RU019-F007 (SD)	**Matrix**	**Units**	**Analysis Date**
RQ2401984-25	Water	ug/L	02/22/24 1727

Analyte	Dilution	DL	LOQ	Sample Result	SD Result	Diff	Q	DL x 50
Manganese, Dissolved	100	80	200	13800	14000	1		4000

NC - Sample and/or Serial Dilution result(s) do not meet criteria for evaluation. %Diff Not Calculated.

Form 9 - ICP Serial Dilutions

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

OLN-RU021-F007 (SD)	**Matrix**	**Units**	**Analysis Date**
RQ2402036-16	Water	ug/L	02/23/24 1429

Analyte	Dilution	DL	LOQ	Sample Result	SD Result	Diff	Q	DL x 50
Iron, Dissolved	100	1300	2000	57400	54000	NC		65000

NC - Sample and/or Serial Dilution result(s) do not meet criteria for evaluation. %Diff Not Calculated.

Form 10

Detection Limits

Metals by EPA 6010C

Workorder

R2401280

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 - 6 Month Sampling 2024

06/07/2024

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Form 10 - Detection Limits

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

Analyte	CAS	Units	DL	LOQ	Prep Method	Leach Method
Arsenic, Dissolved	7440-38-2	ug/L	6	10	EPA 3005A/3010A	NA
Iron, Dissolved	7439-89-6	ug/L	70	100	EPA 3005A/3010A	NA
Manganese, Dissolved	7439-96-5	ug/L	4	10	EPA 3005A/3010A	NA

Form 12

Linear Ranges

Metals by EPA 6010C

Workorder

R2401280

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 - 6 Month Sampling 2024

06/07/2024

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1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
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Form 12 - Linear Ranges

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

Analysis Method Metals by EPA 6010C (P)

Analyte	Linear Range	Units
AG 328	1	mg/L
AL 237	500	mg/L
AS 188	4	mg/L
B 249	10	mg/L
BA 233	40	mg/L
BE 313	1	mg/L
CA 227	250	mg/L
CD 226	2	mg/L
CO 228	10	mg/L
CR 267	10	mg/L
CU 324	4	mg/L
FE 259	50	mg/L
K 766	150	mg/L
MG 279	500	mg/L
MN 257	10	mg/L
MO 202	10	mg/L
NA 589	200	mg/L
NI 231	8	mg/L
PB 220	10	mg/L
SB 206	10	mg/L
SE 196	2	mg/L
SI 252	20	mg/L
SN 189	10	mg/L
SR 421	10	mg/L
TI 337	10	mg/L
TL 191	3	mg/L
V 292	10	mg/L
ZN 206	4	mg/L

right solutions.
right partner.

Analysis Run Log

Metals by EPA 6010C

Workorder

R2401280

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 - 6 Month Sampling 2024

06/07/2024

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www.alsglobal.com

Form 14 - Analysis Run Log

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

R-ICP-AES-07_833055	**Instrument ID**	**Start Date**	**End Date**
	R-ICP-AES-07	02/21/24	02/21/24

Time	Sample ID	DF	Analytes
14:05	Initial Cal. Verif. (ICV)	1	As,Fe,Mn
14:08	Initial Cal. Blank (ICB)	1	As,Fe,Mn
19:18	Cont. Cal. Verif. (CCV)	1	As,Fe,Mn
19:21	Cont. Cal. Blank (CCB)	1	As,Fe,Mn
19:24	Low-Level Cont. Cal. (LLCCV)	1	As,Fe,Mn
19:28	Interf. Check Sol. A (ICSA)	1	As,Fe,Mn
19:31	Interf. Check Sol. AB (ICSAB)	1	As,Fe,Mn
19:34	Cont. Cal. Verif. (CCV)	1	As,Fe,Mn
19:37	Cont. Cal. Blank (CCB)	1	As,Fe,Mn
19:41	Method Blank (MB)	1	As,Fe,Mn
19:44	Lab Control Sample (LCS)	1	As,Fe,Mn
19:47	R2401280-002-OLN-CW013-F007-SMPL	1	As,Fe,Mn
19:50	R2401280-003-OLN-CW13A-F007-SMPL	1	As,Fe,Mn
19:54	R2401280-004-OLN-FB001-B007-SMPL	1	As,Fe,Mn
19:57	R2401280-006-OLN-WW18M-F007-SMPL	1	As,Fe,Mn
20:00	R2401280-008-OLN-RU009-F007-SMPL	1	As,Fe,Mn
20:03	R2401280-009-OLN-RU028-F007-SMPL	1	As,Fe,Mn
20:06	R2401280-010-OLN-RU011-F007-SMPL	1	As,Fe,Mn
20:10	R2401280-011-OLN-RU27A-F007-SMPL	1	As,Fe
20:13	Cont. Cal. Verif. (CCV)	1	As,Fe,Mn
20:16	Cont. Cal. Blank (CCB)	1	As,Fe,Mn
20:19	R2401280-012-OLN-FB002-B007-SMPL	1	As,Fe,Mn
20:23	R2401280-013-OLN-RU015-F007-SMPL	1	As,Fe,Mn
20:26	R2401280-014-OLN-RU016-F007-SMPL	1	As,Fe,Mn
20:29	R2401280-015-OLN-FD001-D007-SMPL	1	As,Fe,Mn
20:32	R2401280-016-OLN-RU020-F007-SMPL	1	As,Fe,Mn
20:35	R2401280-017-OLN-RU019-F007-SMPL	1	As,Fe

Form 14 - Analysis Run Log

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

R-ICP-AES-07_833055	Instrument ID	Start Date	End Date
	R-ICP-AES-07	02/21/24	02/21/24

Time	Sample ID	DF	Analytes
20:39	R2401280-018-OLN-RU021-F007-SMPL	1	As,Mn
20:42	Matrix Spike (MS)	1	As,Mn
20:45	Matrix Spike Duplicate (DMS)	1	As,Mn
20:48	Post-Digestion Spike (PS)	1	As,Mn
20:52	Cont. Cal. Verif. (CCV)	1	As,Fe,Mn
20:55	Cont. Cal. Blank (CCB)	1	As,Fe,Mn
20:58	Serial Dilution (SD)	5	As,Mn
21:01	R2401280-019-OLN-UA002-F007-SMPL	1	As,Fe,Mn
21:05	R2401280-020-OLN-EB001-E007-SMPL	1	As,Fe,Mn
21:08	R2401280-022-OLN-UA003-F007-SMPL	1	As,Fe,Mn
21:11	R2401280-023-OLN-RU008-F007-SMPL	1	As,Fe,Mn
21:14	R2401280-024-OLN-FB003-B007-SMPL	1	As,Fe,Mn
21:17	Cont. Cal. Verif. (CCV)	1	As,Fe,Mn
21:21	Cont. Cal. Blank (CCB)	1	As,Fe,Mn
21:24	Low-Level Cont. Cal. (LLCCV)	1	As,Fe,Mn
21:27	Interf. Check Sol. A (ICSA)	1	As,Fe,Mn
21:30	Interf. Check Sol. AB (ICSAB)	1	As,Fe,Mn
21:34	Cont. Cal. Verif. (CCV)	1	As,Fe,Mn
21:37	Cont. Cal. Blank (CCB)	1	As,Fe,Mn

Form 14 - Analysis Run Log

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

R-ICP-AES-07_833056	**Instrument ID**	**Start Date**	**End Date**
	R-ICP-AES-07	02/21/24	02/21/24

Time	Sample ID	DF	Analytes
14:05	Initial Cal. Verif. (ICV)	1	As,Fe,Mn
14:08	Initial Cal. Blank (ICB)	1	As,Fe,Mn
21:17	Cont. Cal. Verif. (CCV)	1	As,Fe,Mn
21:21	Cont. Cal. Blank (CCB)	1	As,Fe,Mn
21:24	Low-Level Cont. Cal. (LLCCV)	1	As,Fe,Mn
21:27	Interf. Check Sol. A (ICSA)	1	As,Fe,Mn
21:30	Interf. Check Sol. AB (ICSAB)	1	As,Fe,Mn
21:34	Cont. Cal. Verif. (CCV)	1	As,Fe,Mn
21:37	Cont. Cal. Blank (CCB)	1	As,Fe,Mn
21:40	Method Blank (MB)	1	As,Fe,Mn
21:43	Lab Control Sample (LCS)	1	As,Fe,Mn
21:47	R2401280-025-OLN-FD002-D007-SMPL	1	As,Fe,Mn
22:12	Cont. Cal. Verif. (CCV)	1	As,Fe,Mn
22:16	Cont. Cal. Blank (CCB)	1	As,Fe,Mn
22:51	Cont. Cal. Verif. (CCV)	1	As,Fe,Mn
22:54	Cont. Cal. Blank (CCB)	1	As,Fe,Mn
23:04	Cont. Cal. Verif. (CCV)	1	As,Fe,Mn
23:07	Cont. Cal. Blank (CCB)	1	As,Fe,Mn
23:10	Low-Level Cont. Cal. (LLCCV)	1	As,Fe,Mn
23:14	Interf. Check Sol. A (ICSA)	1	As,Fe,Mn
23:17	Interf. Check Sol. AB (ICSAB)	1	As,Fe,Mn
23:20	Cont. Cal. Verif. (CCV)	1	As,Fe,Mn
23:23	Cont. Cal. Blank (CCB)	1	As,Fe,Mn

Form 14 - Analysis Run Log

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

R-ICP-AES-07_833186	Instrument ID	Start Date	End Date
	R-ICP-AES-07	02/22/24	02/22/24

Time	Sample ID	DF	Analytes
15:21	Initial Cal. Verif. (ICV)	1	Mn
15:25	Initial Cal. Blank (ICB)	1	Mn
15:28	Low-Level Cont. Cal. (LLCCV)	1	Mn
15:31	Interf. Check Sol. A (ICSA)	1	Mn
15:34	Interf. Check Sol. AB (ICSAB)	1	Mn
15:38	Cont. Cal. Verif. (CCV)	1	Mn
15:41	Cont. Cal. Blank (CCB)	1	Mn
16:03	Cont. Cal. Verif. (CCV)	1	Mn
16:07	Cont. Cal. Blank (CCB)	1	Mn
16:39	Cont. Cal. Verif. (CCV)	1	Mn
16:42	Cont. Cal. Blank (CCB)	1	Mn
17:08	Cont. Cal. Verif. (CCV)	1	Mn
17:11	Cont. Cal. Blank (CCB)	1	Mn
17:21	R2401280-011-OLN-RU27A-F007-SMPL	100	Mn
17:24	R2401280-017-OLN-RU019-F007-SMPL	20	Mn
17:27	Serial Dilution (SD)	100	Mn
17:47	Cont. Cal. Verif. (CCV)	1	Mn
17:50	Cont. Cal. Blank (CCB)	1	Mn
17:53	Low-Level Cont. Cal. (LLCCV)	1	Mn
17:57	Interf. Check Sol. A (ICSA)	1	Mn
18:00	Interf. Check Sol. AB (ICSAB)	1	Mn
18:13	Cont. Cal. Verif. (CCV)	1	Mn
18:16	Cont. Cal. Blank (CCB)	1	Mn

Form 14 - Analysis Run Log

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

R-ICP-AES-07_833320	**Instrument ID**	**Start Date**	**End Date**
	R-ICP-AES-07	02/23/24	02/23/24

Time	Sample ID	DF	Analytes
13:37	Initial Cal. Verif. (ICV)	1	Fe
13:40	Initial Cal. Blank (ICB)	1	Fe
13:43	Low-Level Cont. Cal. (LLCCV)	1	Fe
13:47	Interf. Check Sol. A (ICSA)	1	Fe
13:50	Interf. Check Sol. AB (ICSAB)	1	Fe
13:53	Cont. Cal. Verif. (CCV)	1	Fe
13:56	Cont. Cal. Blank (CCB)	1	Fe
14:16	R2401280-018-OLN-RU021-F007-SMPL	20	Fe
14:19	Matrix Spike (MS)	20	Fe
14:22	Matrix Spike Duplicate (DMS)	20	Fe
14:25	Post-Digestion Spike (PS)	20	Fe
14:29	Serial Dilution (SD)	100	Fe
14:32	Cont. Cal. Verif. (CCV)	1	Fe
14:35	Cont. Cal. Blank (CCB)	1	Fe
14:38	Low-Level Cont. Cal. (LLCCV)	1	Fe
14:42	Interf. Check Sol. A (ICSA)	1	Fe
14:45	Interf. Check Sol. AB (ICSAB)	1	Fe
14:58	Cont. Cal. Verif. (CCV)	1	Fe
15:01	Cont. Cal. Blank (CCB)	1	Fe

General Chemistry

ALS Environmental—Rochester Laboratory
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Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R2401280-MB1		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	5.0	U	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	0.20	U	mg/L	0.20	0.04	1	02/26/24 17:11	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R2401280-MB2		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	5.0	U	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	0.20	U	mg/L	0.20	0.04	1	02/26/24 19:56	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R2401280-MB3		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	5.0	U	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	0.20	U	mg/L	0.20	0.04	1	02/27/24 06:25	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R2401280-MB4		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	5.0	U	mg/L	5.0	3.8	1	02/22/24 13:38	
Sulfate	300.0	0.20	U	mg/L	0.20	0.04	1	02/27/24 13:45	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R2401280-MB5		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Sulfate	300.0	0.20 U	mg/L	0.20	0.04	1	02/28/24 09:31	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24
Sample Matrix:	Water	**Date Received:**	02/15/24
		Date Analyzed:	02/26/24

Duplicate Matrix Spike Summary
Sulfate

Sample Name:	OLN-WW18M-F007	**Units:**	mg/L
Lab Code:	R2401280-006	**Basis:**	NA
Analysis Method:	300.0		

		Matrix Spike			Duplicate Matrix Spike					
		R2401280-006MS			R2401280-006DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Sulfate	23.6	42.2	20.0	93	42.1	20.0	92	90-110	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24
Sample Matrix:	Water	**Date Received:**	02/15/24
		Date Analyzed:	02/21/24

Duplicate Matrix Spike Summary
Chemical Oxygen Demand, Total

Sample Name:	OLN-RU009-F007	**Units:**	mg/L
Lab Code:	R2401280-008	**Basis:**	NA
Analysis Method:	410.4		

		Matrix Spike R2401280-008MS			Duplicate Matrix Spike R2401280-008DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Chemical Oxygen Demand, Total	6.5	31.1	25.0	98	28.2	25.0	87 *	90-110	10	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

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ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24
Sample Matrix:	Water	**Date Received:**	02/15/24
		Date Analyzed:	02/21/24

Duplicate Matrix Spike Summary
Chemical Oxygen Demand, Total

Sample Name:	OLN-RU020-F007	**Units:**	mg/L
Lab Code:	R2401280-016	**Basis:**	NA
Analysis Method:	410.4		

		Matrix Spike R2401280-016MS			Duplicate Matrix Spike R2401280-016DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Chemical Oxygen Demand, Total	38.9	57.1	25.0	73 *	55.0	25.0	64 *	90-110	4	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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QA/QC Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24
Sample Matrix:	Water	**Date Received:**	02/15/24
		Date Analyzed:	02/22/24 - 02/28/24

Duplicate Matrix Spike Summary
General Chemistry Parameters

Sample Name:	OLN-RU021-F007	**Units:**	mg/L
Lab Code:	R2401280-018	**Basis:**	NA

			Matrix Spike			Duplicate Matrix Spike					
			R2401280-018MS			R2401280-018DMS					
Analyte Name	**Method**	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Chemical Oxygen Demand, Total	410.4	259	611	375	94	609	375	93	90-110	<1	20
Sulfate	300.0	248	321	80.0	92	322	80.0	92	90-110	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/14/24
Sample Matrix:	Water	**Date Received:**	02/15/24
		Date Analyzed:	02/27/24

Duplicate Matrix Spike Summary
Sulfate

Sample Name:	OLN-FD002-D007	**Units:**	mg/L
Lab Code:	R2401280-025	**Basis:**	NA
Analysis Method:	300.0		

		Matrix Spike			Duplicate Matrix Spike					
		R2401280-025MS			R2401280-025DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Sulfate	35.3	53.2	20.0	89 *	53.7	20.0	92	90-110	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041
Sample Matrix: Water

Service Request: R2401280
Date Analyzed: 02/21/24 - 02/26/24

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2401280-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chemical Oxygen Demand, Total	410.4	511	500	102	90-110
Sulfate	300.0	2.03	2.00	102	90-110

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041
Sample Matrix: Water

Service Request: R2401280
Date Analyzed: 02/21/24 - 02/26/24

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2401280-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chemical Oxygen Demand, Total	410.4	49.8	50.0	100	90-110
Sulfate	300.0	2.08	2.00	104	90-110

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041
Sample Matrix: Water

Service Request: R2401280
Date Analyzed: 02/21/24 - 02/27/24

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2401280-LCS3

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chemical Oxygen Demand, Total	410.4	51.3	50.0	103	90-110
Sulfate	300.0	2.06	2.00	103	90-110

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QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041
Sample Matrix: Water

Service Request: R2401280
Date Analyzed: 02/22/24 - 02/27/24

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2401280-LCS4

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chemical Oxygen Demand, Total	410.4	517	500	103	90-110
Sulfate	300.0	2.03	2.00	102	90-110

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Analyzed:**	02/28/24
Sample Matrix:	Water		

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2401280-LCS5

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Sulfate	300.0	2.05	2.00	103	90-110

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041

Continuing Calibration Blank (CCB) Summary

Chemical Oxygen Demand, Total

Analysis Method: 410.4 **Units:**mg/L

	Analysis Lot	Lab Code	Date Analyzed	MRL	MDL	Result	Q
CCB1	832646	RQ2401903-02	02/21/24 16:18	5.0	3.8	5.0	U
CCB2	832646	RQ2401903-08	02/21/24 16:18	5.0	3.8	5.0	U
CCB3	832646	RQ2401903-12	02/21/24 16:18	5.0	3.8	5.0	U
CCB4	832925	RQ2401904-02	02/21/24 16:18	5.0	3.8	5.0	U
CCB5	832925	RQ2401904-08	02/21/24 16:18	5.0	3.8	5.0	U
CCB6	832925	RQ2401904-12	02/21/24 16:18	5.0	3.8	5.0	U
CCB7	832925	RQ2401904-14	02/21/24 16:18	5.0	3.8	5.0	U
CCB8	832926	RQ2401909-02	02/21/24 16:18	5.0	3.8	5.0	U
CCB9	832926	RQ2401909-08	02/21/24 16:18	5.0	3.8	5.0	U
CCB10	832926	RQ2401909-10	02/21/24 16:18	5.0	3.8	5.0	U
CCB11	832926	RQ2401909-12	02/21/24 16:18	5.0	3.8	5.0	U
CCB12	833045	RQ2401917-02	02/22/24 13:38	5.0	3.8	5.0	U
CCB13	833045	RQ2401917-08	02/22/24 13:38	5.0	3.8	5.0	U

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041

Continuing Calibration Blank (CCB) Summary

Sulfate

Analysis Method: 300.0 **Units:**mg/L

	Analysis Lot	Lab Code	Date Analyzed	MRL	MDL	Result	Q
CCB1	833418	RQ2402067-02	02/26/24 17:11	0.20	0.04	0.20	U
CCB2	833418	RQ2402067-08	02/26/24 18:34	0.20	0.04	0.20	U
CCB3	833418	RQ2402067-10	02/26/24 19:56	0.20	0.04	0.20	U
CCB4	833419	RQ2402068-02	02/26/24 19:56	0.20	0.04	0.20	U
CCB5	833419	RQ2402068-08	02/26/24 21:20	0.20	0.04	0.20	U
CCB6	833468	RQ2402111-02	02/27/24 06:25	0.20	0.04	0.20	U
CCB7	833468	RQ2402111-08	02/27/24 07:52	0.20	0.04	0.20	U
CCB8	833468	RQ2402111-12	02/27/24 09:14	0.20	0.04	0.20	U
CCB9	833551	RQ2402128-02	02/27/24 13:45	0.20	0.04	0.20	U
CCB10	833551	RQ2402128-08	02/27/24 15:08	0.20	0.04	0.20	U
CCB11	833551	RQ2402128-12	02/27/24 16:30	0.20	0.04	0.20	U
CCB12	833597	RQ2402168-02	02/28/24 09:31	0.20	0.04	0.20	U
CCB13	833597	RQ2402168-06	02/28/24 10:49	0.20	0.04	0.20	U

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041

Continuing Calibration Verification (CCV) Summary

Chemical Oxygen Demand, Total

Analysis Method: 410.4 **Units:** mg/L

	Analysis Lot	Lab Code	Date Analyzed	True Value	Measured Value	Percent Recovery	Acceptance Limits
CCV1	832646	RQ2401903-01	02/21/24 16:18	500	511	102	90-110
CCV2	832646	RQ2401903-07	02/21/24 16:18	500	514	103	90-110
CCV3	832646	RQ2401903-11	02/21/24 16:18	500	507	101	90-110
CCV4	832925	RQ2401904-01	02/21/24 16:18	50.0	49.8	100	90-110
CCV5	832925	RQ2401904-07	02/21/24 16:18	50.0	49.3	99	90-110
CCV6	832925	RQ2401904-11	02/21/24 16:18	50.0	51.3	103	90-110
CCV7	832925	RQ2401904-13	02/21/24 16:18	50.0	51.6	103	90-110
CCV8	832926	RQ2401909-01	02/21/24 16:18	50.0	51.3	103	90-110
CCV9	832926	RQ2401909-07	02/21/24 16:18	50.0	51.6	103	90-110
CCV10	832926	RQ2401909-09	02/21/24 16:18	50.0	49.6	99	90-110
CCV11	832926	RQ2401909-11	02/21/24 16:18	50.0	49.1	98	90-110
CCV12	833045	RQ2401917-01	02/22/24 13:38	500	517	103	90-110
CCV13	833045	RQ2401917-07	02/22/24 13:38	500	517	103	90-110

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041

Continuing Calibration Verification (CCV) Summary

Sulfate

Analysis Method: 300.0 **Units:** mg/L

	Analysis Lot	Lab Code	Date Analyzed	True Value	Measured Value	Percent Recovery	Acceptance Limits
CCV1	833418	RQ2402067-01	02/26/24 17:04	4.00	4.14	103	90-110
CCV2	833418	RQ2402067-07	02/26/24 18:27	4.00	4.14	104	90-110
CCV3	833418	RQ2402067-09	02/26/24 19:50	4.00	4.11	103	90-110
CCV4	833419	RQ2402068-01	02/26/24 19:50	4.00	4.11	103	90-110
CCV5	833419	RQ2402068-07	02/26/24 21:14	4.00	4.16	104	90-110
CCV6	833468	RQ2402111-01	02/27/24 06:18	4.00	4.17	104	90-110
CCV7	833468	RQ2402111-07	02/27/24 07:45	4.00	4.11	103	90-110
CCV8	833468	RQ2402111-11	02/27/24 09:07	4.00	4.10	103	90-110
CCV9	833551	RQ2402128-01	02/27/24 13:38	4.00	4.13	103	90-110
CCV10	833551	RQ2402128-07	02/27/24 15:01	4.00	4.10	102	90-110
CCV11	833551	RQ2402128-11	02/27/24 16:23	4.00	4.10	102	90-110
CCV12	833597	RQ2402168-01	02/28/24 09:24	4.00	4.15	104	90-110
CCV13	833597	RQ2402168-05	02/28/24 10:42	4.00	4.07	102	90-110

Raw Data

ALS Environmental—Rochester Laboratory
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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/12/24
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-TB001-T007	**Units:**	ug/L
Lab Code:	R2401280-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/25/24 19:14	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	02/25/24 19:14	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/25/24 19:14	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	02/25/24 19:14	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/25/24 19:14	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	85 - 122	02/25/24 19:14	
Dibromofluoromethane	97	80 - 116	02/25/24 19:14	
Toluene-d8	97	87 - 121	02/25/24 19:14	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/12/24 14:32
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-CW013-F007	**Units:**	ug/L
Lab Code:	R2401280-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/23/24 18:17	
Trichloroethene (TCE)	**2.7**	1.0	0.20	1	02/23/24 18:17	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/23/24 18:17	
cis-1,2-Dichloroethene	**0.91 J**	1.0	0.23	1	02/23/24 18:17	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/23/24 18:17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	02/23/24 18:17	
Dibromofluoromethane	99	80 - 116	02/23/24 18:17	
Toluene-d8	96	87 - 121	02/23/24 18:17	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/12/24 14:52
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-CW13A-F007	**Units:**	ug/L
Lab Code:	R2401280-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/23/24 18:40	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	02/23/24 18:40	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/23/24 18:40	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	02/23/24 18:40	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/23/24 18:40	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	85 - 122	02/23/24 18:40	
Dibromofluoromethane	96	80 - 116	02/23/24 18:40	
Toluene-d8	94	87 - 121	02/23/24 18:40	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/12/24 15:15
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FB001-B007	**Units:**	ug/L
Lab Code:	R2401280-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/23/24 17:33	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	02/23/24 17:33	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/23/24 17:33	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	02/23/24 17:33	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/23/24 17:33	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	85	85 - 122	02/23/24 17:33	
Dibromofluoromethane	93	80 - 116	02/23/24 17:33	
Toluene-d8	92	87 - 121	02/23/24 17:33	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-TB002-T007	**Units:**	ug/L
Lab Code:	R2401280-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/23/24 16:48	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	02/23/24 16:48	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/23/24 16:48	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	02/23/24 16:48	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/23/24 16:48	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	85	85 - 122	02/23/24 16:48	
Dibromofluoromethane	94	80 - 116	02/23/24 16:48	
Toluene-d8	91	87 - 121	02/23/24 16:48	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 08:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-WW18M-F007	**Units:**	ug/L
Lab Code:	R2401280-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/23/24 19:02	
Trichloroethene (TCE)	**11**	1.0	0.20	1	02/23/24 19:02	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/23/24 19:02	
cis-1,2-Dichloroethene	**0.32 J**	1.0	0.23	1	02/23/24 19:02	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/23/24 19:02	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	85 - 122	02/23/24 19:02	
Dibromofluoromethane	93	80 - 116	02/23/24 19:02	
Toluene-d8	93	87 - 121	02/23/24 19:02	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-TB003-T007	**Units:**	ug/L
Lab Code:	R2401280-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/23/24 17:10	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	02/23/24 17:10	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/23/24 17:10	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	02/23/24 17:10	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/23/24 17:10	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	86	85 - 122	02/23/24 17:10	
Dibromofluoromethane	92	80 - 116	02/23/24 17:10	
Toluene-d8	91	87 - 121	02/23/24 17:10	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 11:36
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU009-F007	**Units:**	ug/L
Lab Code:	R2401280-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/23/24 19:24	
Trichloroethene (TCE)	**0.52 J**	1.0	0.20	1	02/23/24 19:24	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/23/24 19:24	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	02/23/24 19:24	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/23/24 19:24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	86	85 - 122	02/23/24 19:24	
Dibromofluoromethane	93	80 - 116	02/23/24 19:24	
Toluene-d8	92	87 - 121	02/23/24 19:24	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 12:27
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU028-F007	**Units:**	ug/L
Lab Code:	R2401280-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/23/24 19:47	
Trichloroethene (TCE)	**38**	1.0	0.20	1	02/23/24 19:47	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/23/24 19:47	
cis-1,2-Dichloroethene	**4.4**	1.0	0.23	1	02/23/24 19:47	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/23/24 19:47	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	87	85 - 122	02/23/24 19:47	
Dibromofluoromethane	95	80 - 116	02/23/24 19:47	
Toluene-d8	94	87 - 121	02/23/24 19:47	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 13:32
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU011-F007	**Units:**	ug/L
Lab Code:	R2401280-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/23/24 20:09	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	02/23/24 20:09	
Vinyl Chloride	**0.61 J**	1.0	0.20	1	02/23/24 20:09	
cis-1,2-Dichloroethene	**1.7**	1.0	0.23	1	02/23/24 20:09	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/23/24 20:09	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	85 - 122	02/23/24 20:09	
Dibromofluoromethane	97	80 - 116	02/23/24 20:09	
Toluene-d8	95	87 - 121	02/23/24 20:09	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 14:41
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU27A-F007	**Units:**	ug/L
Lab Code:	R2401280-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/25/24 22:57	
Trichloroethene (TCE)	**0.71 J**	1.0	0.20	1	02/25/24 22:57	
Vinyl Chloride	**1.3**	1.0	0.20	1	02/25/24 22:57	
cis-1,2-Dichloroethene	**5.6**	1.0	0.23	1	02/25/24 22:57	
trans-1,2-Dichloroethene	**0.21 J**	1.0	0.20	1	02/25/24 22:57	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	87	85 - 122	02/25/24 22:57	
Dibromofluoromethane	95	80 - 116	02/25/24 22:57	
Toluene-d8	93	87 - 121	02/25/24 22:57	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 15:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FB002-B007	**Units:**	ug/L
Lab Code:	R2401280-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/23/24 17:55	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	02/23/24 17:55	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/23/24 17:55	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	02/23/24 17:55	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/23/24 17:55	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	85 - 122	02/23/24 17:55	
Dibromofluoromethane	97	80 - 116	02/23/24 17:55	
Toluene-d8	96	87 - 121	02/23/24 17:55	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 15:45
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU015-F007	**Units:**	ug/L
Lab Code:	R2401280-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/25/24 19:37	
Trichloroethene (TCE)	**5.8**	1.0	0.20	1	02/25/24 19:37	
Vinyl Chloride	**1.7**	1.0	0.20	1	02/25/24 19:37	
cis-1,2-Dichloroethene	**6.4**	1.0	0.23	1	02/25/24 19:37	
trans-1,2-Dichloroethene	**0.39 J**	1.0	0.20	1	02/25/24 19:37	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	85 - 122	02/25/24 19:37	
Dibromofluoromethane	95	80 - 116	02/25/24 19:37	
Toluene-d8	94	87 - 121	02/25/24 19:37	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 17:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU016-F007	**Units:**	ug/L
Lab Code:	R2401280-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/25/24 19:59	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	02/25/24 19:59	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/25/24 19:59	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	02/25/24 19:59	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/25/24 19:59	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	87	85 - 122	02/25/24 19:59	
Dibromofluoromethane	95	80 - 116	02/25/24 19:59	
Toluene-d8	94	87 - 121	02/25/24 19:59	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 22:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FD001-D007	**Units:**	ug/L
Lab Code:	R2401280-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/25/24 22:35	
Trichloroethene (TCE)	**6.2**	1.0	0.20	1	02/25/24 22:35	
Vinyl Chloride	**1.7**	1.0	0.20	1	02/25/24 22:35	
cis-1,2-Dichloroethene	**6.6**	1.0	0.23	1	02/25/24 22:35	
trans-1,2-Dichloroethene	**0.45 J**	1.0	0.20	1	02/25/24 22:35	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	85 - 122	02/25/24 22:35	
Dibromofluoromethane	96	80 - 116	02/25/24 22:35	
Toluene-d8	96	87 - 121	02/25/24 22:35	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 12:25
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU020-F007	**Units:**	ug/L
Lab Code:	R2401280-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	5.0 U	5.0	1.1	5	02/26/24 17:54	
Trichloroethene (TCE)	**360**	5.0	1.0	5	02/26/24 17:54	
Vinyl Chloride	5.0 U	5.0	1.0	5	02/26/24 17:54	
cis-1,2-Dichloroethene	**200**	5.0	1.2	5	02/26/24 17:54	
trans-1,2-Dichloroethene	**1.4 J**	5.0	1.0	5	02/26/24 17:54	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	02/26/24 17:54	
Dibromofluoromethane	100	80 - 116	02/26/24 17:54	
Toluene-d8	102	87 - 121	02/26/24 17:54	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 12:25
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU020-F007	**Units:**	ug/L
Lab Code:	R2401280-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	**0.72**	**J**	1.0	0.21	1	02/25/24 23:20	
Trichloroethene (TCE)	**450**	**E**	1.0	0.20	1	02/25/24 23:20	
Vinyl Chloride	**0.20**	**J**	1.0	0.20	1	02/25/24 23:20	
cis-1,2-Dichloroethene	**210**	**E**	1.0	0.23	1	02/25/24 23:20	
trans-1,2-Dichloroethene	**1.7**		1.0	0.20	1	02/25/24 23:20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	02/25/24 23:20	
Dibromofluoromethane	98	80 - 116	02/25/24 23:20	
Toluene-d8	98	87 - 121	02/25/24 23:20	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 13:30
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU019-F007	**Units:**	ug/L
Lab Code:	R2401280-017	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	**0.47** **J**	2.0	0.42	2	02/25/24 23:42	
Trichloroethene (TCE)	**180**	2.0	0.40	2	02/25/24 23:42	
Vinyl Chloride	**17**	2.0	0.40	2	02/25/24 23:42	
cis-1,2-Dichloroethene	**250**	2.0	0.46	2	02/25/24 23:42	
trans-1,2-Dichloroethene	**2.4**	2.0	0.40	2	02/25/24 23:42	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	87	85 - 122	02/25/24 23:42	
Dibromofluoromethane	94	80 - 116	02/25/24 23:42	
Toluene-d8	94	87 - 121	02/25/24 23:42	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 15:38
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU021-F007	**Units:**	ug/L
Lab Code:	R2401280-018	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	**0.29**	**J**	1.0	0.21	1	02/23/24 20:32	
Trichloroethene (TCE)	**85**		1.0	0.20	1	02/23/24 20:32	
Vinyl Chloride	**18**		1.0	0.20	1	02/23/24 20:32	
cis-1,2-Dichloroethene	**29**		1.0	0.23	1	02/23/24 20:32	
trans-1,2-Dichloroethene	**1.2**		1.0	0.20	1	02/23/24 20:32	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	87	85 - 122	02/23/24 20:32	
Dibromofluoromethane	95	80 - 116	02/23/24 20:32	
Toluene-d8	95	87 - 121	02/23/24 20:32	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 17:03
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-UA002-F007	**Units:**	ug/L
Lab Code:	R2401280-019	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/25/24 20:21	
Trichloroethene (TCE)	**0.56 J**	1.0	0.20	1	02/25/24 20:21	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/25/24 20:21	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	02/25/24 20:21	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/25/24 20:21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	85 - 122	02/25/24 20:21	
Dibromofluoromethane	96	80 - 116	02/25/24 20:21	
Toluene-d8	95	87 - 121	02/25/24 20:21	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 17:30
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-EB001-E007	**Units:**	ug/L
Lab Code:	R2401280-020	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/25/24 20:44	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	02/25/24 20:44	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/25/24 20:44	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	02/25/24 20:44	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/25/24 20:44	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	02/25/24 20:44	
Dibromofluoromethane	95	80 - 116	02/25/24 20:44	
Toluene-d8	95	87 - 121	02/25/24 20:44	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/14/24 09:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-UA003-F007	**Units:**	ug/L
Lab Code:	R2401280-022	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0	U	1.0	0.21	1	02/25/24 21:06	
Trichloroethene (TCE)	**0.95**	**J**	1.0	0.20	1	02/25/24 21:06	
Vinyl Chloride	1.0	U	1.0	0.20	1	02/25/24 21:06	
cis-1,2-Dichloroethene	**0.79**	**J**	1.0	0.23	1	02/25/24 21:06	
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	1	02/25/24 21:06	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	85 - 122	02/25/24 21:06	
Dibromofluoromethane	96	80 - 116	02/25/24 21:06	
Toluene-d8	94	87 - 121	02/25/24 21:06	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/14/24 08:31
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU008-F007	**Units:**	ug/L
Lab Code:	R2401280-023	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	**0.27**	**J**	1.0	0.21	1	02/25/24 21:28	
Trichloroethene (TCE)	**150**		1.0	0.20	1	02/25/24 21:28	
Vinyl Chloride	**0.27**	**J**	1.0	0.20	1	02/25/24 21:28	
cis-1,2-Dichloroethene	**3.8**		1.0	0.23	1	02/25/24 21:28	
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	1	02/25/24 21:28	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	85 - 122	02/25/24 21:28	
Dibromofluoromethane	96	80 - 116	02/25/24 21:28	
Toluene-d8	95	87 - 121	02/25/24 21:28	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/14/24 09:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FB003-B007	**Units:**	ug/L
Lab Code:	R2401280-024	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/26/24 17:31	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	02/26/24 17:31	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/26/24 17:31	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	02/26/24 17:31	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/26/24 17:31	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	02/26/24 17:31	
Dibromofluoromethane	101	80 - 116	02/26/24 17:31	
Toluene-d8	102	87 - 121	02/26/24 17:31	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/14/24 22:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FD002-D007	**Units:**	ug/L
Lab Code:	R2401280-025	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

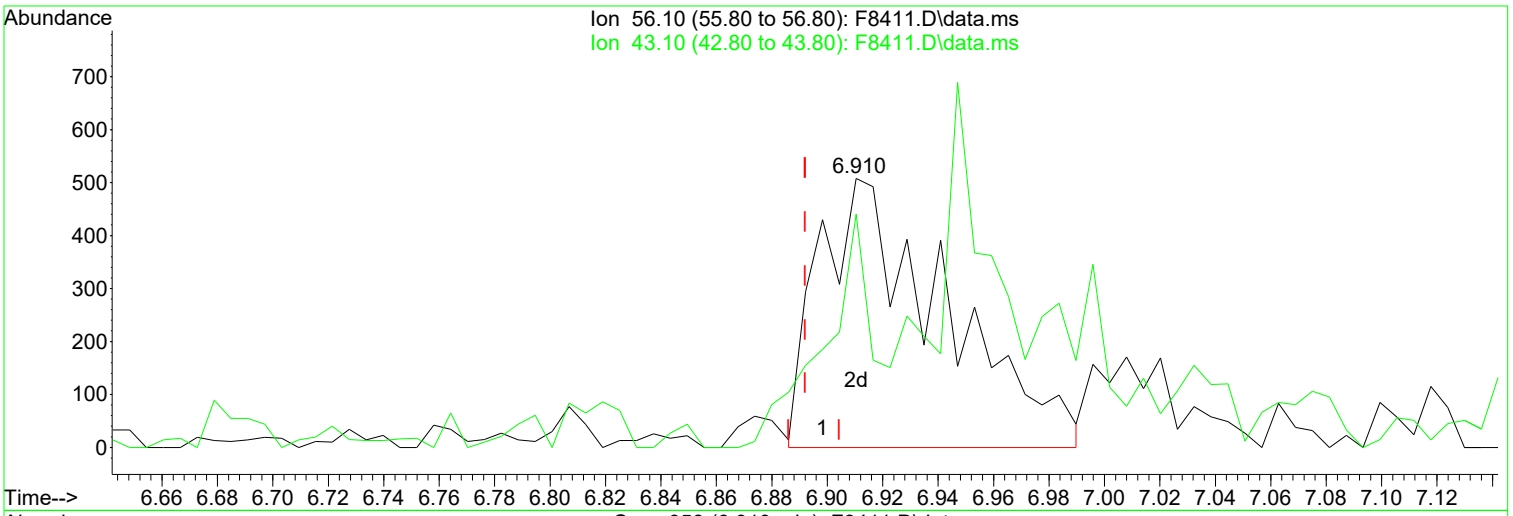
Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/25/24 22:13	
Trichloroethene (TCE)	**150**	1.0	0.20	1	02/25/24 22:13	
Vinyl Chloride	**0.26 J**	1.0	0.20	1	02/25/24 22:13	
cis-1,2-Dichloroethene	**3.6**	1.0	0.23	1	02/25/24 22:13	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/25/24 22:13	

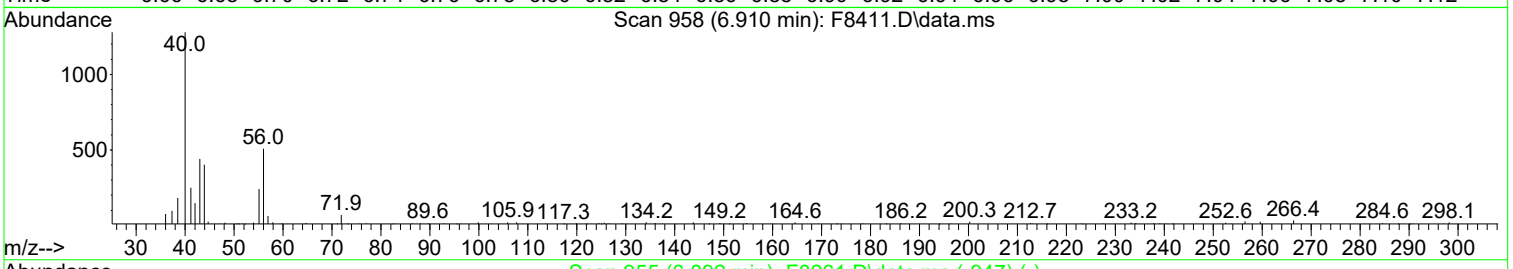
Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	87	85 - 122	02/25/24 22:13	
Dibromofluoromethane	95	80 - 116	02/25/24 22:13	
Toluene-d8	95	87 - 121	02/25/24 22:13	

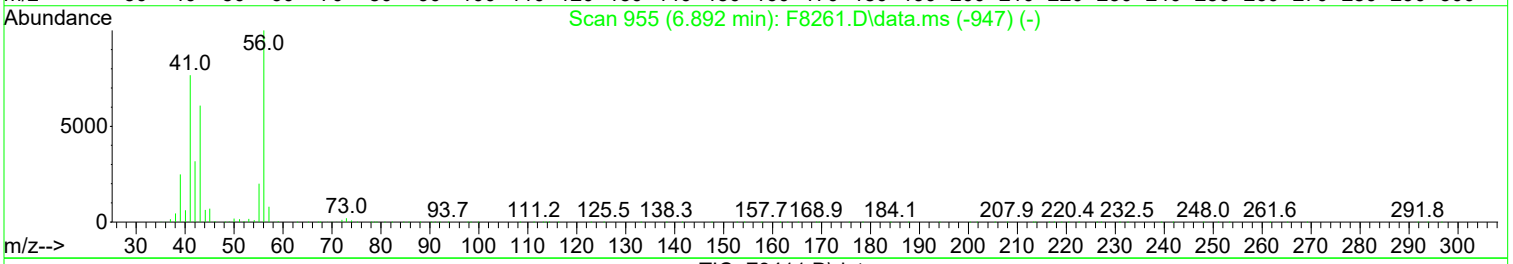
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8411.D
Acq On : 25 Feb 2024 07:14 pm
Operator : F.NAEGLER
Sample : R2401280-001
Misc : CEC 25499 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 26 09:02:21 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8411.D\data.ms

(53) 1-Butanol

6.910min (+ 0.018) 32.46 ug/L m

response 1587

Ion	Exp%	Act%
56.10	100.00	100.00
43.10	60.90	86.81#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

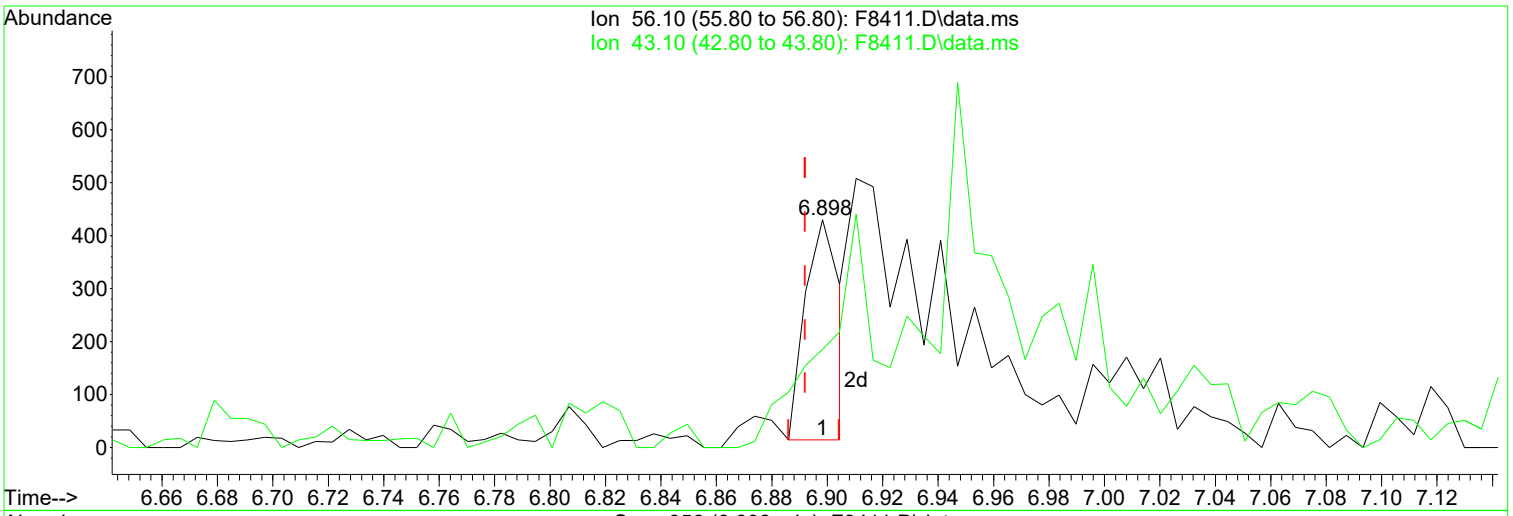
02/27/24

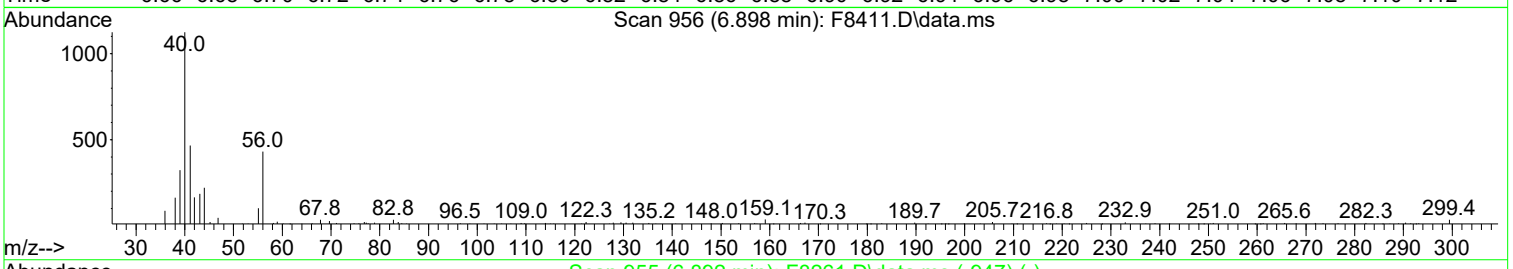
1st FJ 02/27/24
2nd AM 02/28/24

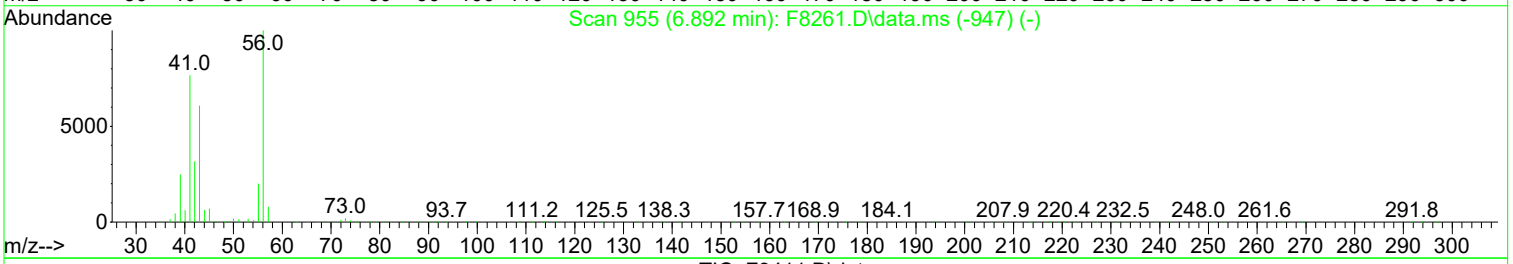
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8411.D
Acq On : 25 Feb 2024 07:14 pm
Operator : F.NAEGLER
Sample : R2401280-001
Misc : CEC 25499 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 26 09:02:21 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8411.D\data.ms

(53) 1-Butanol

6.898min (+ 0.006) 23.78 ug/L

response 362

Ion	Exp%	Act%
56.10	100.00	100.00
43.10	60.90	43.02
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

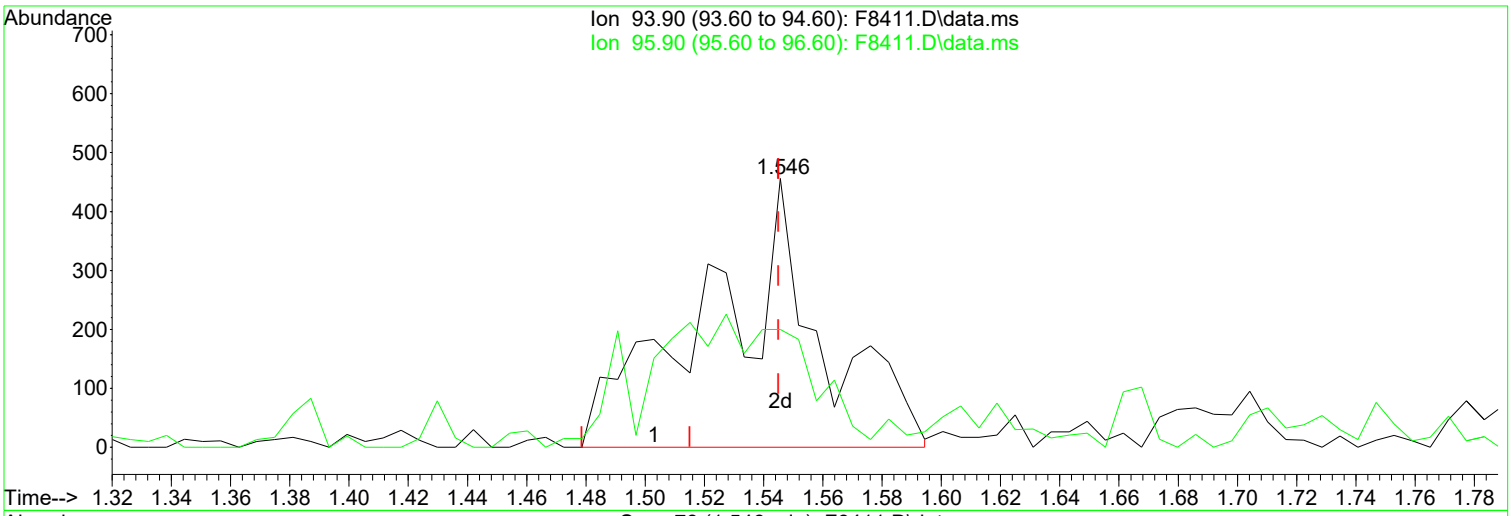
Before

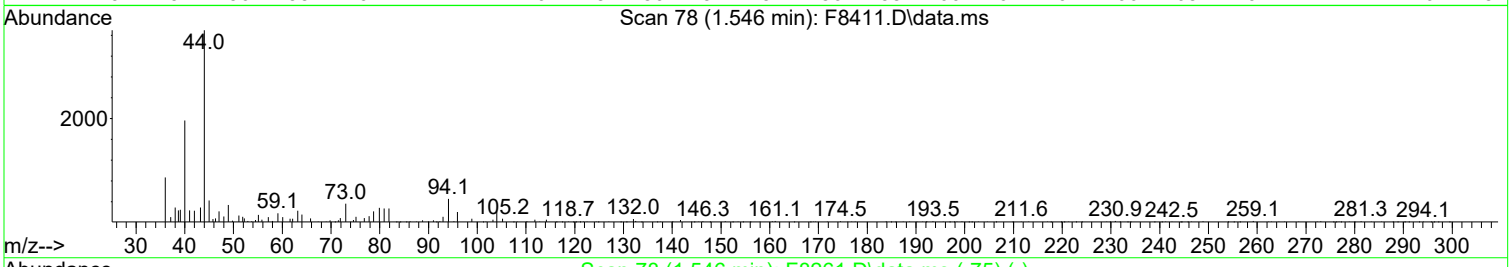
02/27/24

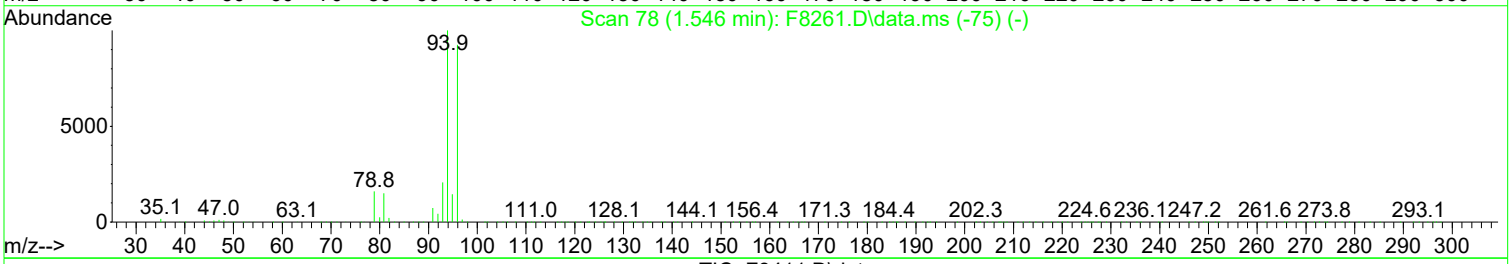
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8411.D
Acq On : 25 Feb 2024 07:14 pm
Operator : F.NAEGLER
Sample : R2401280-001
Misc : CEC 25499 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 26 09:02:21 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8411.D\data.ms

(6) Bromomethane (P)

1.546min (+ 0.001) 0.40 ug/L m

response 1196

Ion	Exp%	Act%
93.90	100.00	100.00
95.90	92.30	43.86#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

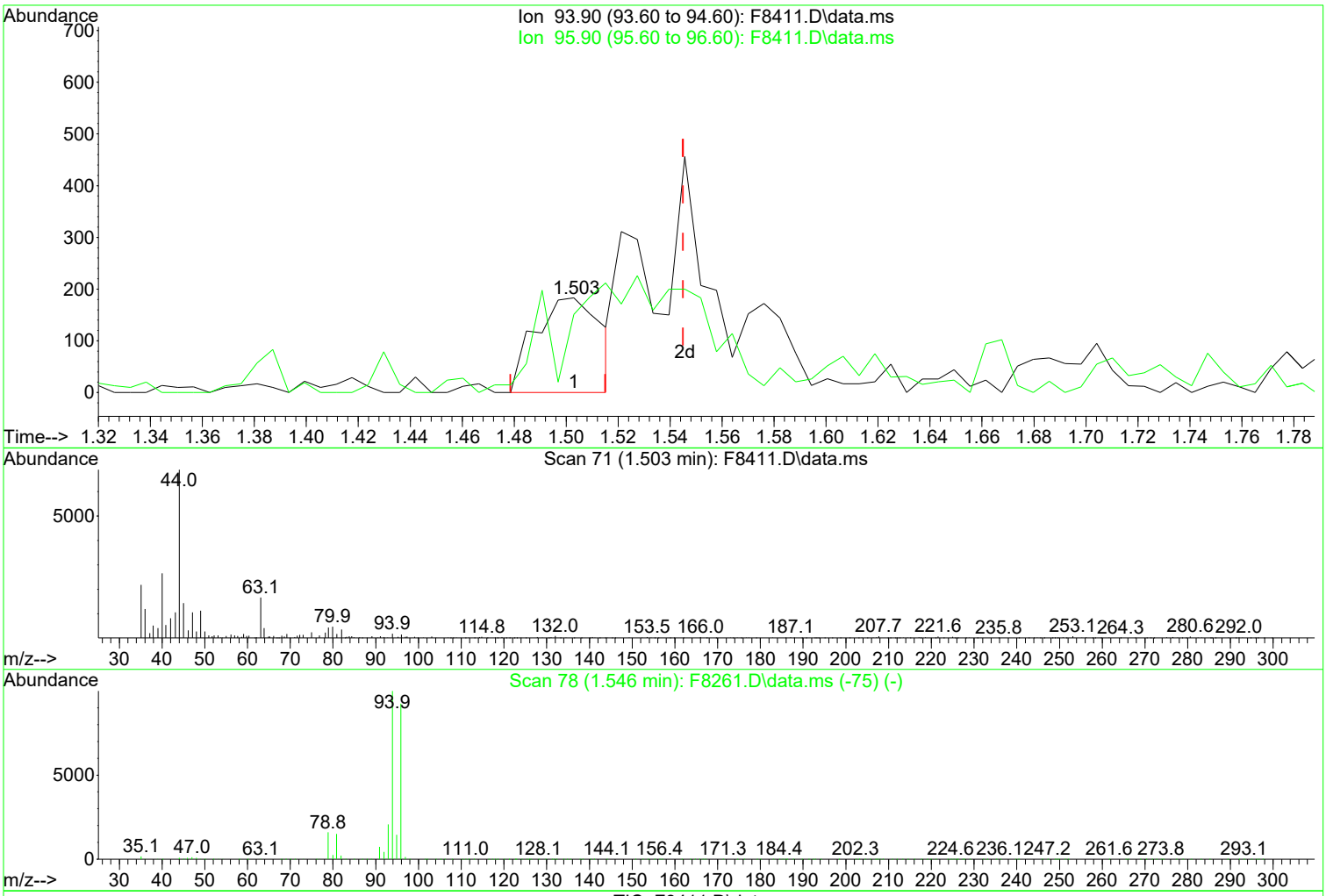
Poor integration.

02/27/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8411.D
Acq On : 25 Feb 2024 07:14 pm
Operator : F.NAEGLER
Sample : R2401280-001
Misc : CEC 25499 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 26 09:02:21 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



TIC: F8411.D\data.ms

(6) Bromomethane (P)

1.503min (-0.042) 0.26 ug/L

response 320

Ion	Exp%	Act%
93.90	100.00	100.00
95.90	92.30	82.51
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

02/27/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8411.D
Acq On : 25 Feb 2024 07:14 pm
Operator : F.NAEGLER
Sample : R2401280-001
Misc : CEC 25499 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 26 09:02:21 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

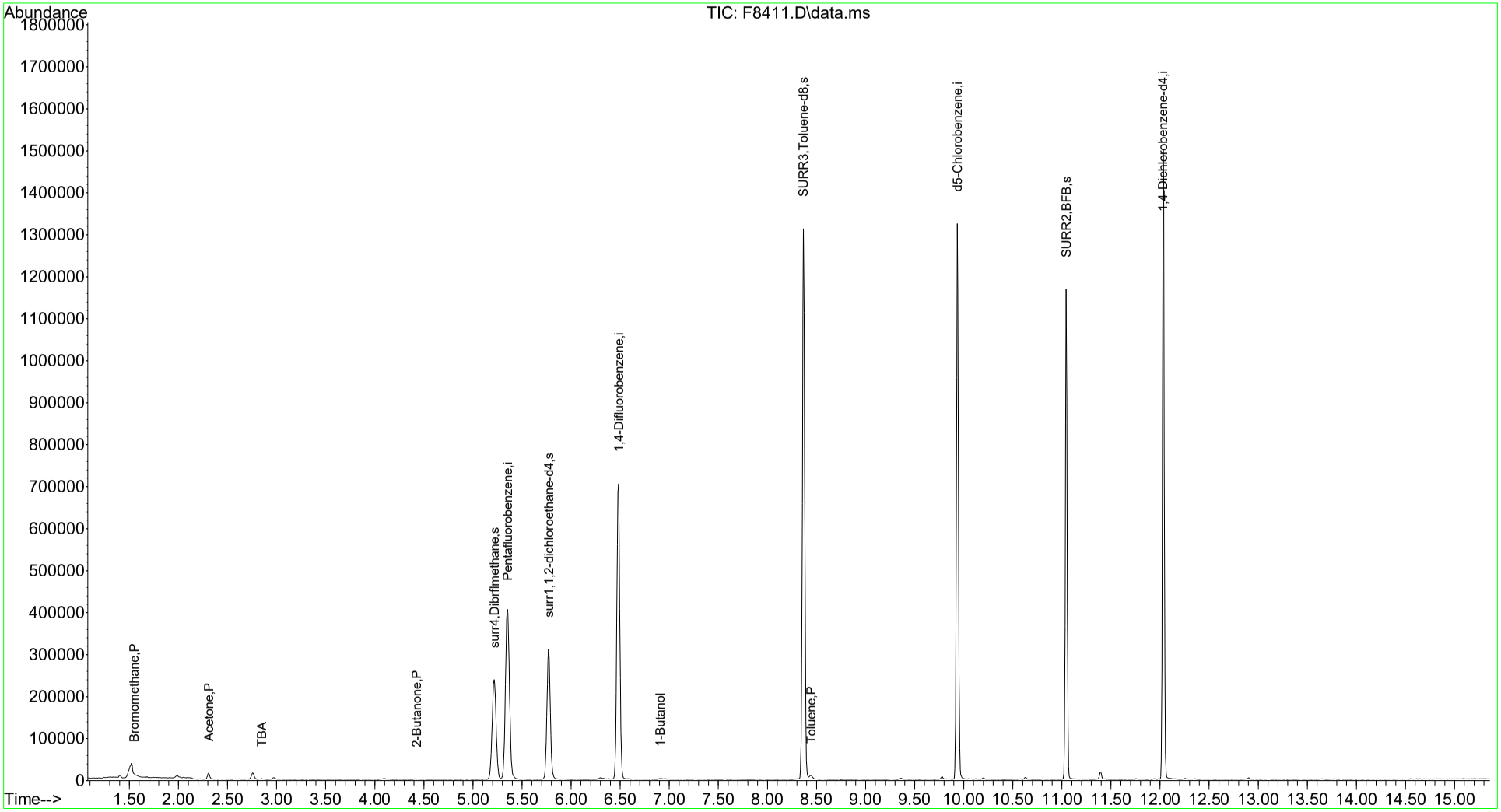
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.356	168	391935	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.484	114	633305	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.934	117	583526	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	12.031	152	290637	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.216	113	197117	48.55	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 97.10%			
48) surr1,1,2-dichloroetha...	5.770	65	267061	50.12	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.24%			
65) SURR3,Toluene-d8	8.367	98	801738	48.55	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 97.10%			
70) SURR2,BFB	11.044	95	276160	44.03	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 88.06%			
Target Compounds						Qvalue
4) Chloromethane	1.265	50	374	Below Cal		87
6) Bromomethane	1.546	94	1196m	0.399	ug/L	
16) Acetone	2.308	43	15423	6.634	ug/L	93
24) TBA	2.850	59	1110	1.706	ug/L	75
35) 2-Butanone	4.423	43	1833	0.580	ug/L	77
53) 1-Butanol	6.910	56	1587m	32.459	ug/L	
66) Toluene	8.447	91	5456	0.336	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

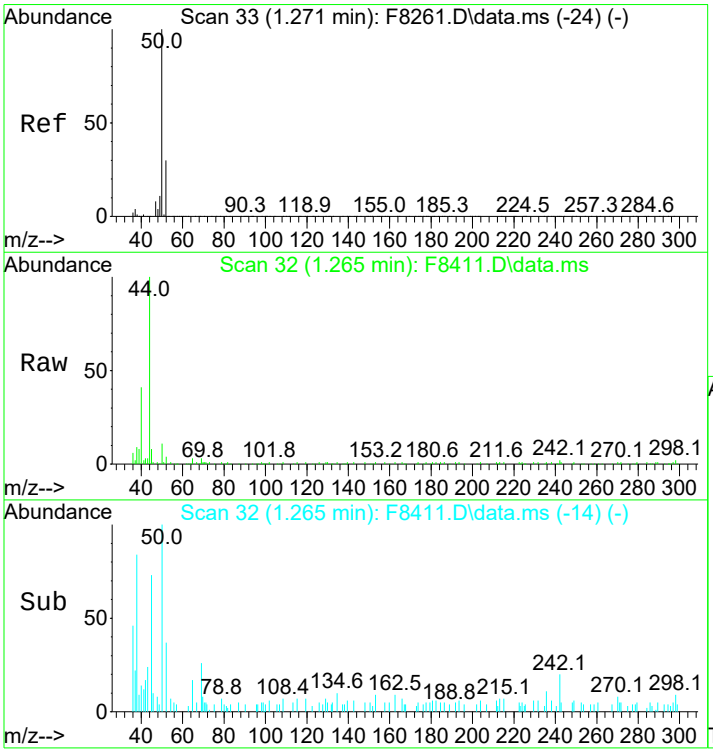
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8411.D
Acq On : 25 Feb 2024 07:14 pm
Operator : F.NAEGLER
Sample : R2401280-001
Misc : CEC 25499 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 26 09:02:21 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



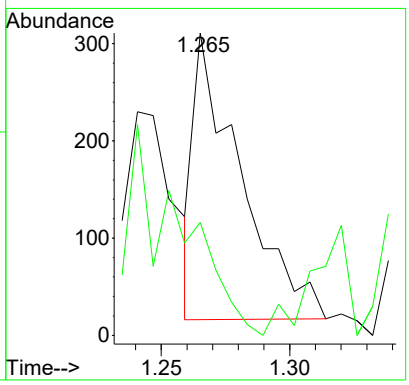
1st FJ 02/27/24
2nd AM 02/28/24

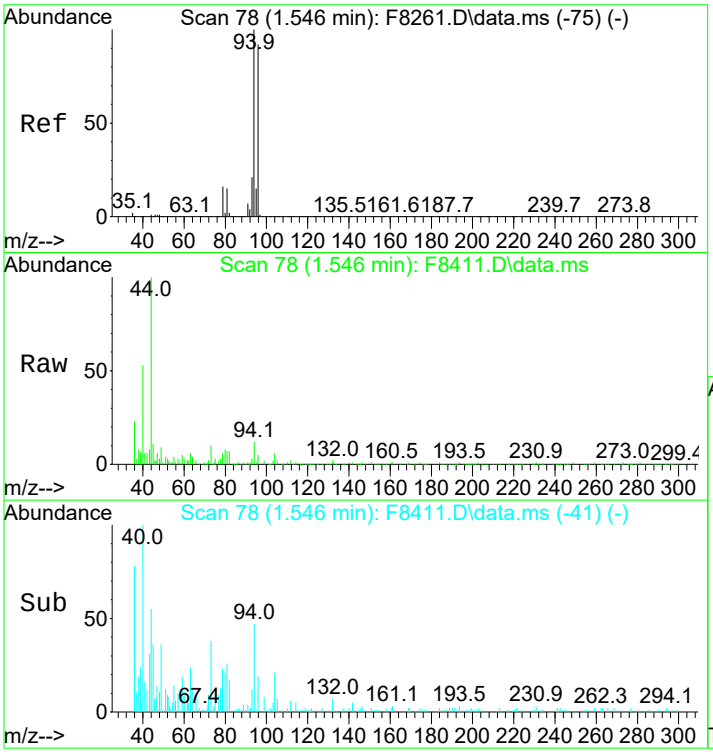


#4
Chloromethane
Concen: Below Cal
RT: 1.265 min Scan# 32
Delta R.T. -0.006 min
Lab File: F8411.D
Acq: 25 Feb 2024 07:14 pm

Tgt Ion: 50 Resp: 374

Ion	Ratio	Lower	Upper
50	100		
52	37.3	10.3	50.3

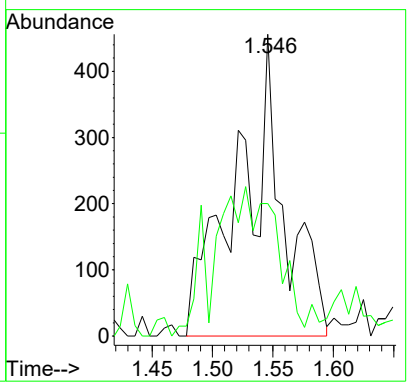


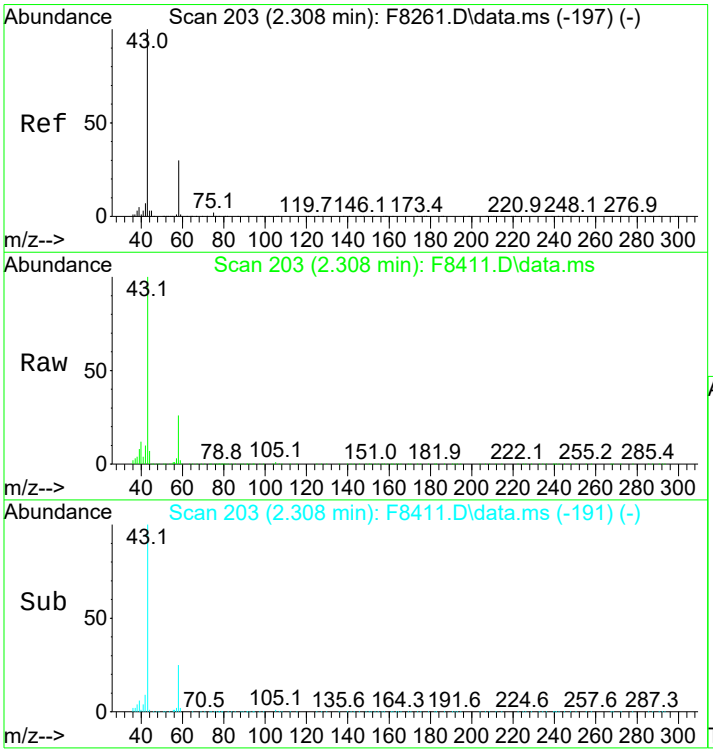


#6
Bromomethane
Concen: 0.40 ug/L m
RT: 1.546 min Scan# 78
Delta R.T. 0.001 min
Lab File: F8411.D
Acq: 25 Feb 2024 07:14 pm

Tgt Ion: 94 Resp: 1196

Ion	Ratio	Lower	Upper
94	100		
96	43.9	72.3	112.3#

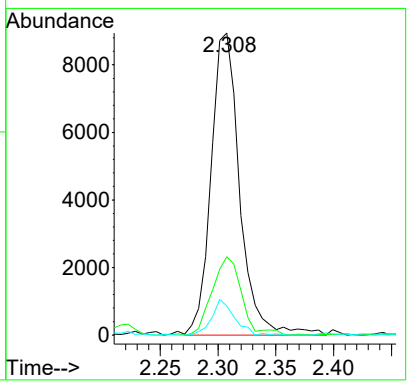


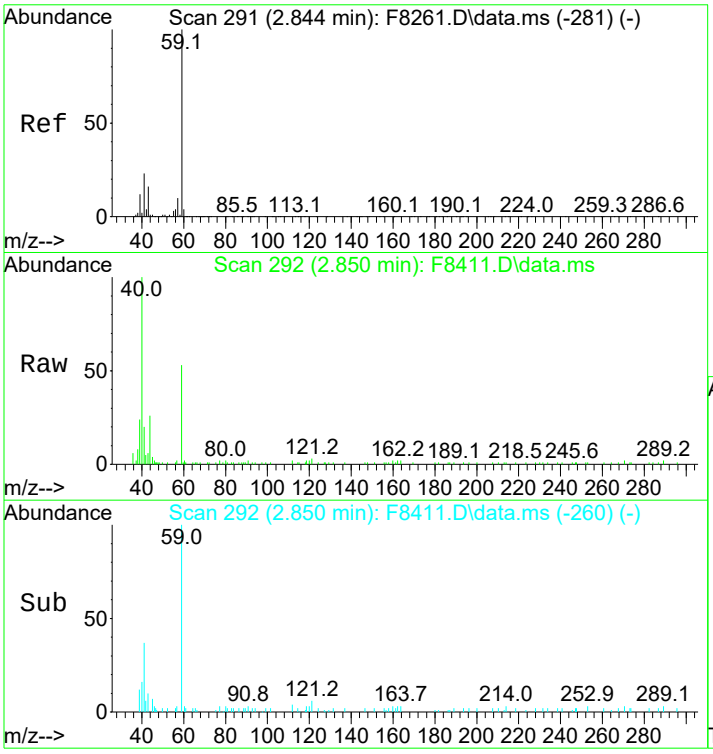


#16
Acetone
Concen: 6.63 ug/L
RT: 2.308 min Scan# 203
Delta R.T. 0.000 min
Lab File: F8411.D
Acq: 25 Feb 2024 07:14 pm

Tgt Ion: 43 Resp: 15423

Ion	Ratio	Lower	Upper
43	100		
58	25.9	10.0	50.0
42	9.7	0.0	27.2

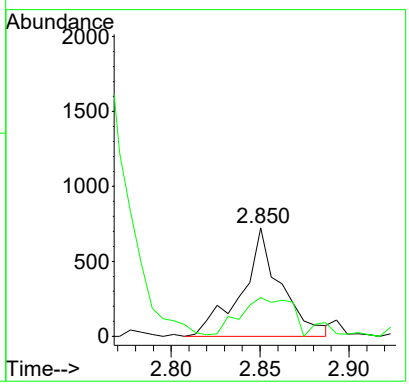


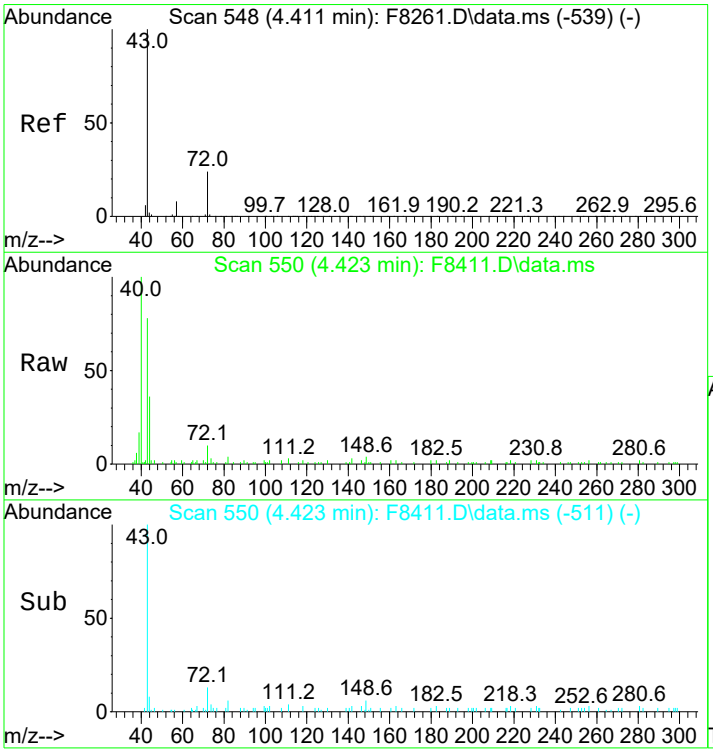


#24
TBA
Concen: 1.71 ug/L
RT: 2.850 min Scan# 292
Delta R.T. 0.006 min
Lab File: F8411.D
Acq: 25 Feb 2024 07:14 pm

Tgt Ion: 59 Resp: 1110

Ion	Ratio	Lower	Upper
59	100		
41	35.8	3.6	43.6

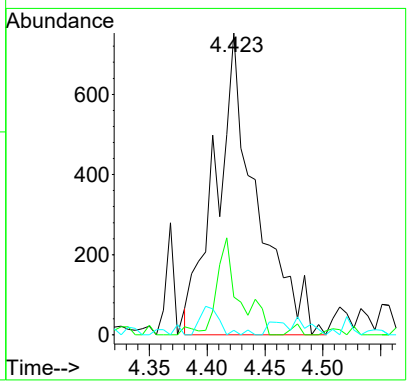


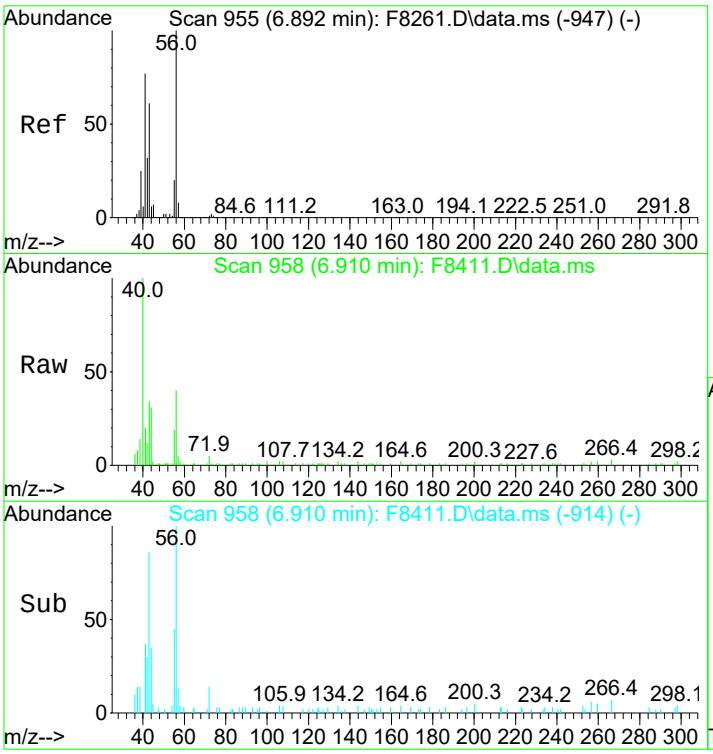


#35
2-Butanone
Concen: 0.58 ug/L
RT: 4.423 min Scan# 550
Delta R.T. 0.012 min
Lab File: F8411.D
Acq: 25 Feb 2024 07:14 pm

Tgt Ion: 43 Resp: 1833

Ion	Ratio	Lower	Upper
43	100		
72	12.5	4.5	44.5
57	1.5	0.0	27.8

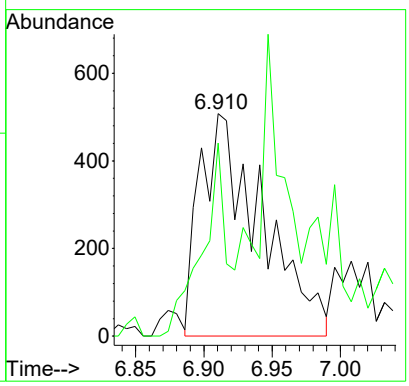




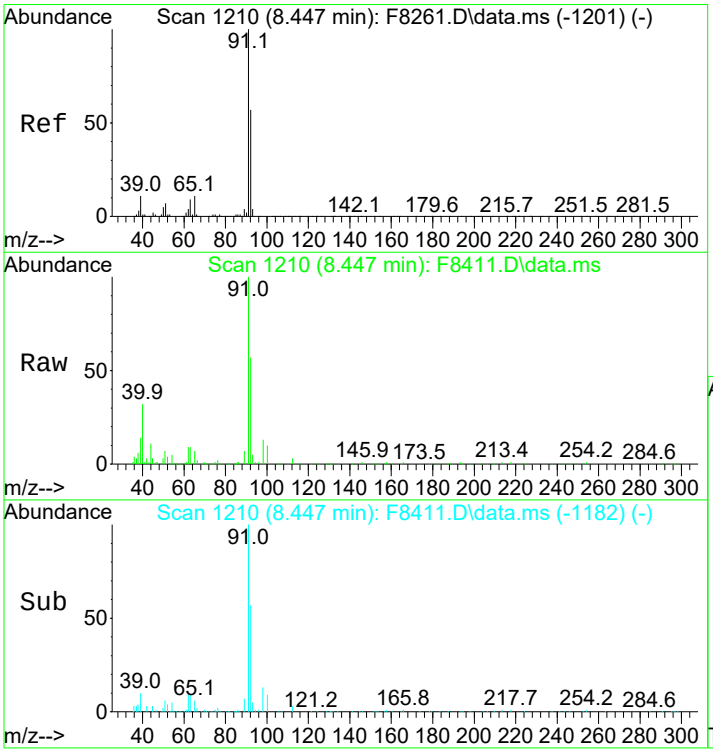
#53
1-Butanol
Concen: 32.46 ug/L m
RT: 6.910 min Scan# 958
Delta R.T. 0.018 min
Lab File: F8411.D
Acq: 25 Feb 2024 07:14 pm

Tgt Ion: 56 Resp: 1587

Ion	Ratio	Lower	Upper
56	100		
43	86.8	40.9	80.9#



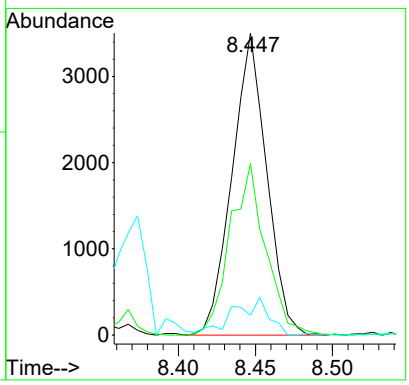
1st FW 02/27/24
2nd AM 02/28/24



#66
Toluene
Concen: 0.34 ug/L
RT: 8.447 min Scan# 1210
Delta R.T. 0.000 min
Lab File: F8411.D
Acq: 25 Feb 2024 07:14 pm

Tgt Ion: 91 Resp: 5456

Ion	Ratio	Lower	Upper
91	100		
92	56.9	37.4	77.4
65	6.6	0.0	31.5



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8383.D
Acq On : 23 Feb 2024 06:17 pm
Operator : F.NAEGLER
Sample : R2401280-002
Misc : CEC 25499 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 25 12:22:49 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

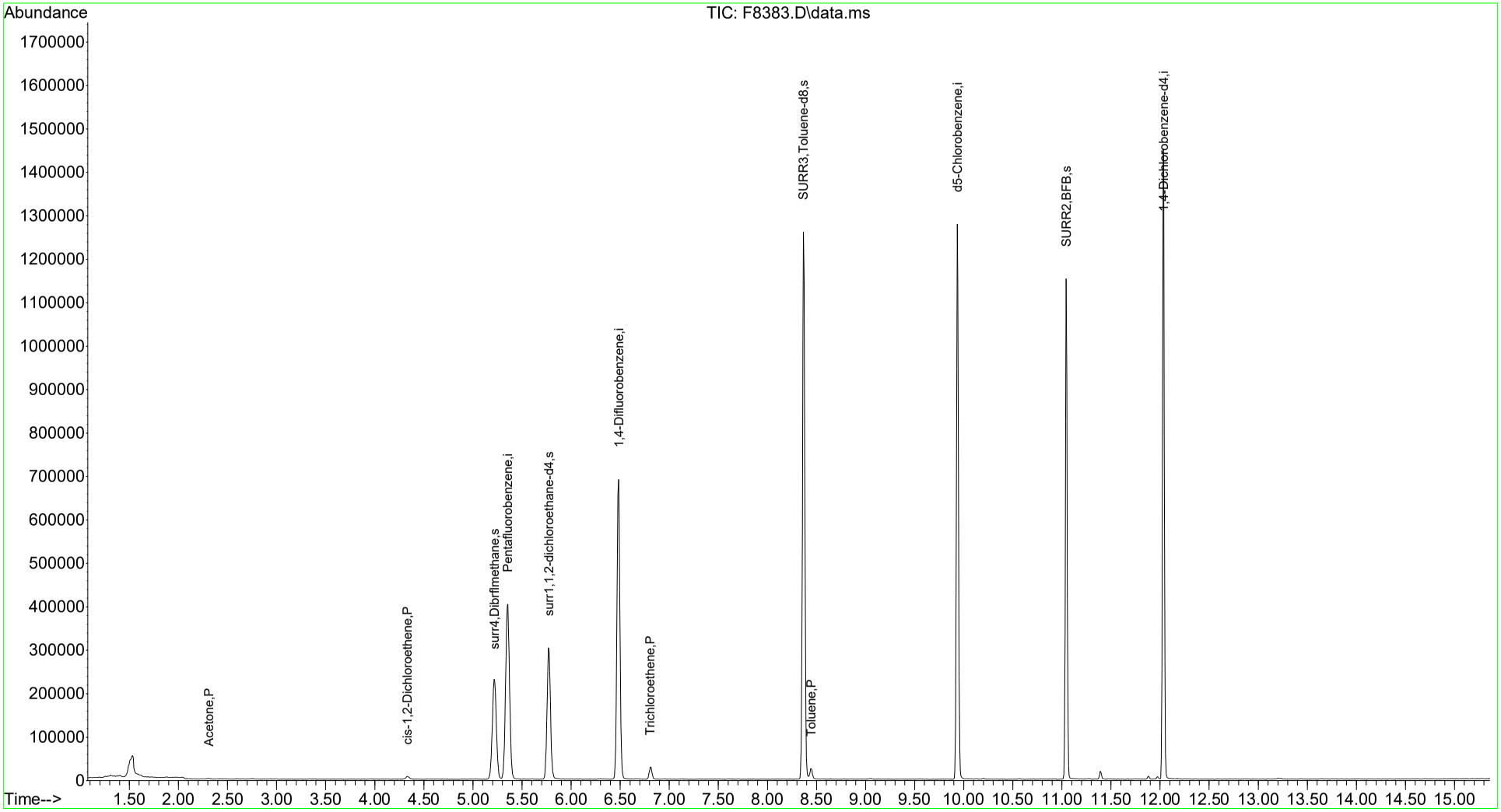
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.356	168	384145	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.484	114	610392	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.934	117	571213	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	12.038	152	284547	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.222	113	193140	49.36	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 98.72%			
48) surr1,1,2-dichloroetha...	5.770	65	265385	51.68	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 103.36%			
65) SURR3,Toluene-d8	8.367	98	767711	48.24	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 96.48%			
70) SURR2,BFB	11.044	95	274470	45.40	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 90.80%			
Target Compounds						Qvalue
4) Chloromethane	1.247	50	489	Below Cal		83
16) Acetone	2.308	43	2495	1.095	ug/L	83
34) cis-1,2-Dichloroethene	4.332	96	3548	0.907	ug/L #	65
54) Trichloroethene	6.807	130	9815	2.683	ug/L	93
66) Toluene	8.441	91	15239	0.975	ug/L	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

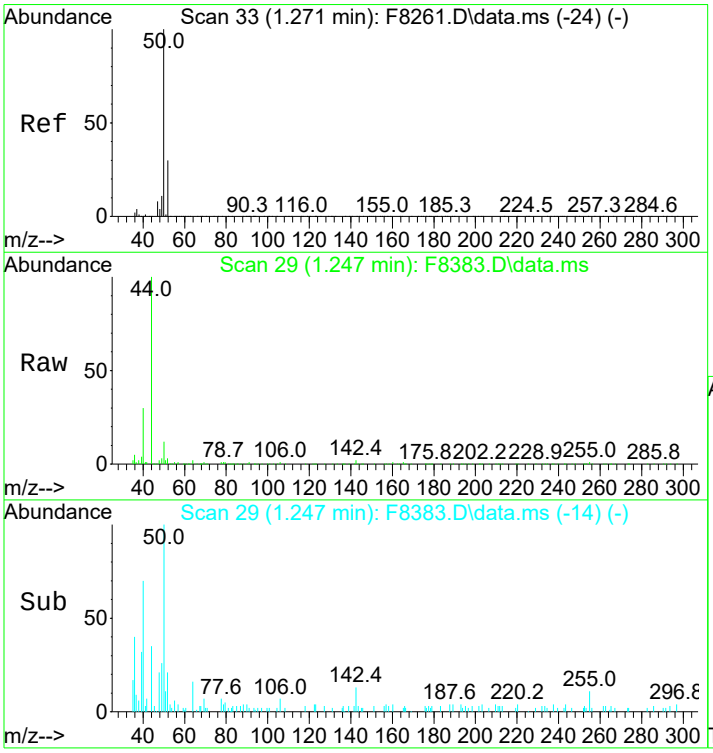
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8383.D
Acq On : 23 Feb 2024 06:17 pm
Operator : F.NAEGLER
Sample : R2401280-002
Misc : CEC 25499 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 25 12:22:49 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



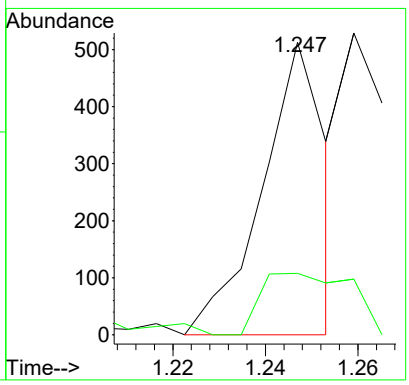
1st FJ 02/26/24
2nd AM 02/27/24

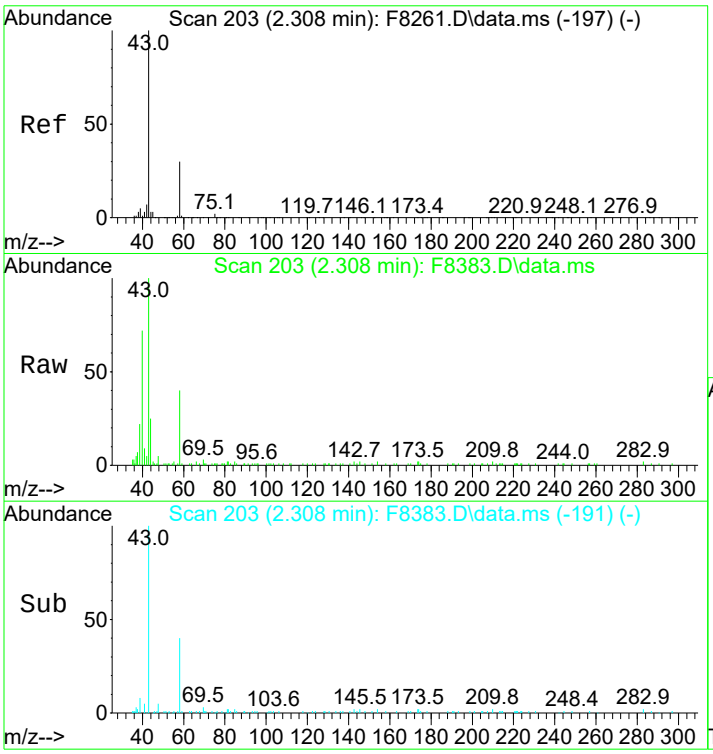


#4
Chloromethane
Concen: Below Cal
RT: 1.247 min Scan# 29
Delta R.T. -0.024 min
Lab File: F8383.D
Acq: 23 Feb 2024 06:17 pm

Tgt Ion: 50 Resp: 489

Ion	Ratio	Lower	Upper
50	100		
52	21.1	10.3	50.3

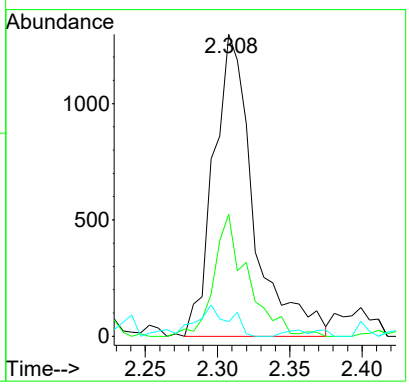


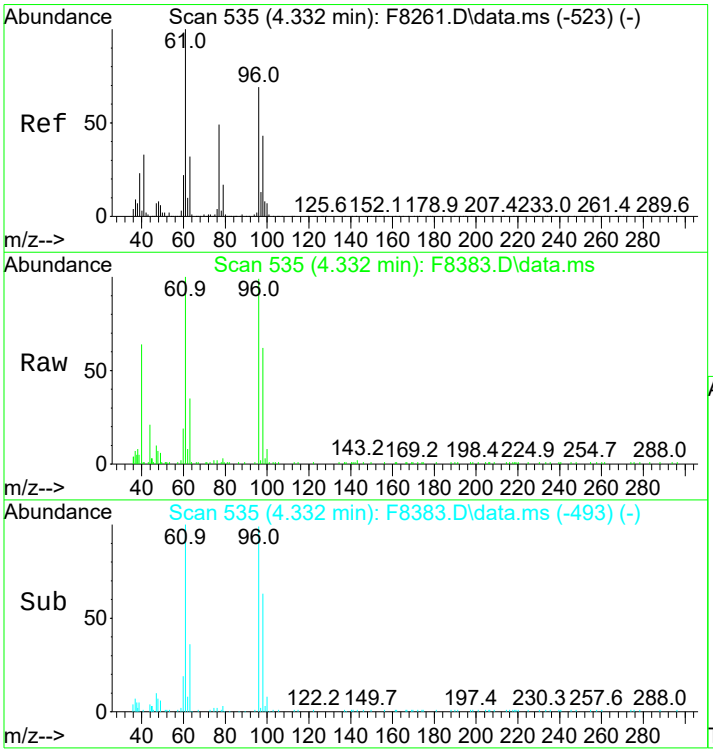


#16
Acetone
Concen: 1.09 ug/L
RT: 2.308 min Scan# 203
Delta R.T. 0.000 min
Lab File: F8383.D
Acq: 23 Feb 2024 06:17 pm

Tgt Ion: 43 Resp: 2495

Ion	Ratio	Lower	Upper
43	100		
58	40.4	10.0	50.0
42	4.9	0.0	27.2

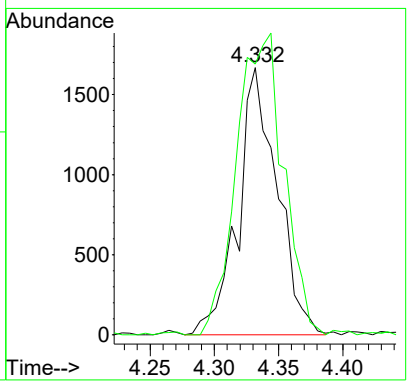


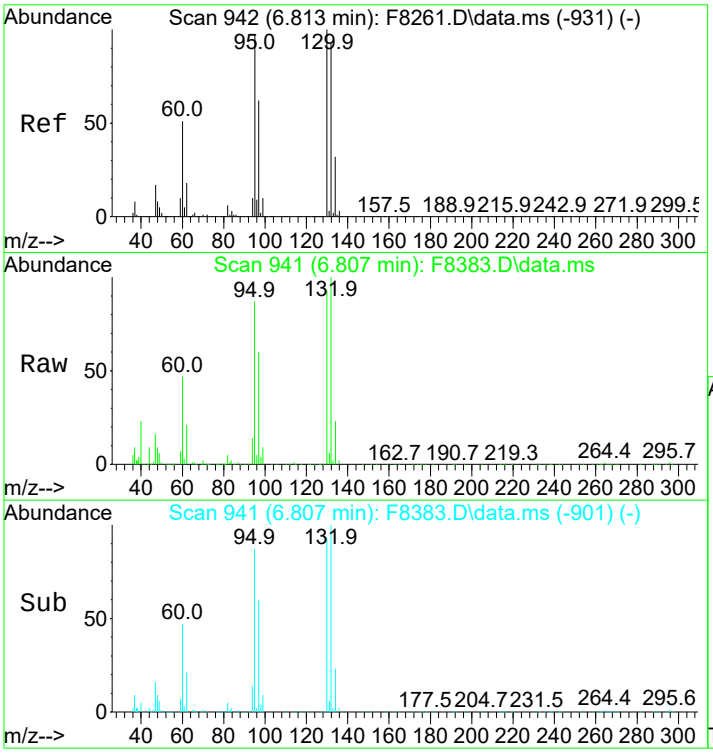


#34
cis-1,2-Dichloroethene
Concen: 0.91 ug/L
RT: 4.332 min Scan# 535
Delta R.T. 0.000 min
Lab File: F8383.D
Acq: 23 Feb 2024 06:17 pm

Tgt Ion: 96 Resp: 3548

Ion	Ratio	Lower	Upper
96	100		
61	101.3	124.5	164.5#

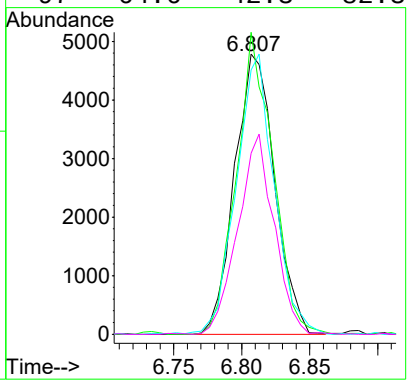


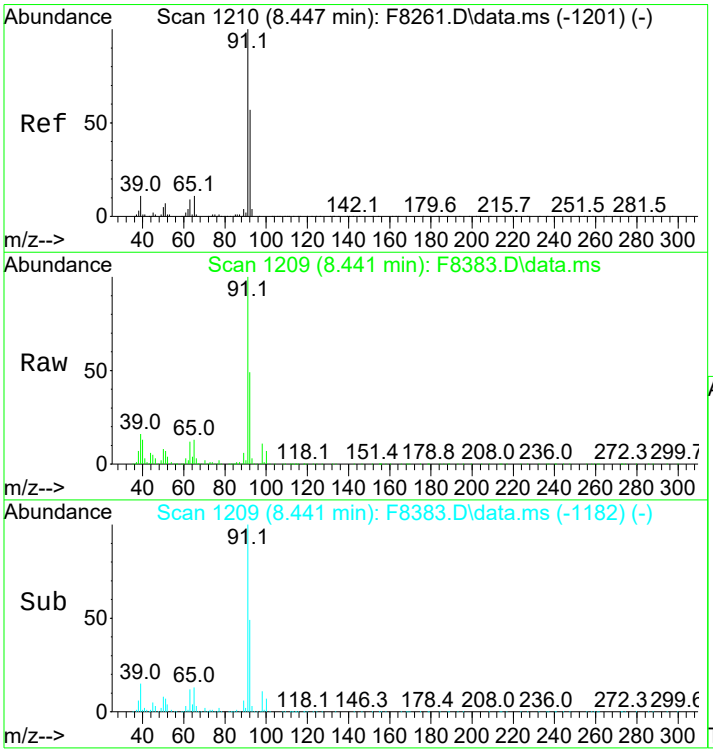


#54
Trichloroethene
Concen: 2.68 ug/L
RT: 6.807 min Scan# 941
Delta R.T. -0.006 min
Lab File: F8383.D
Acq: 23 Feb 2024 06:17 pm

Tgt Ion:130 Resp: 9815

Ion	Ratio	Lower	Upper
130	100		
132	107.8	73.2	113.2
95	94.3	77.2	117.2
97	64.6	42.3	82.3

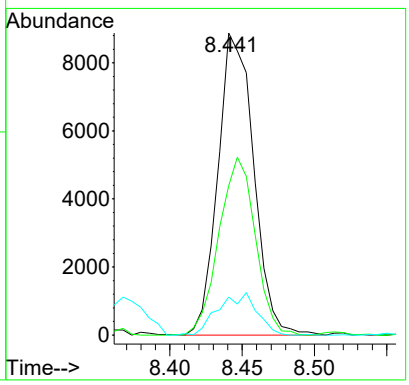




#66
Toluene
Concen: 0.98 ug/L
RT: 8.441 min Scan# 1209
Delta R.T. -0.006 min
Lab File: F8383.D
Acq: 23 Feb 2024 06:17 pm

Tgt Ion: 91 Resp: 15239

Ion	Ratio	Lower	Upper
91	100		
92	49.5	37.4	77.4
65	12.6	0.0	31.5



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8384.D
Acq On : 23 Feb 2024 06:40 pm
Operator : F.NAEGLER
Sample : R2401280-003
Misc : CEC 25499 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 25 12:23:03 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

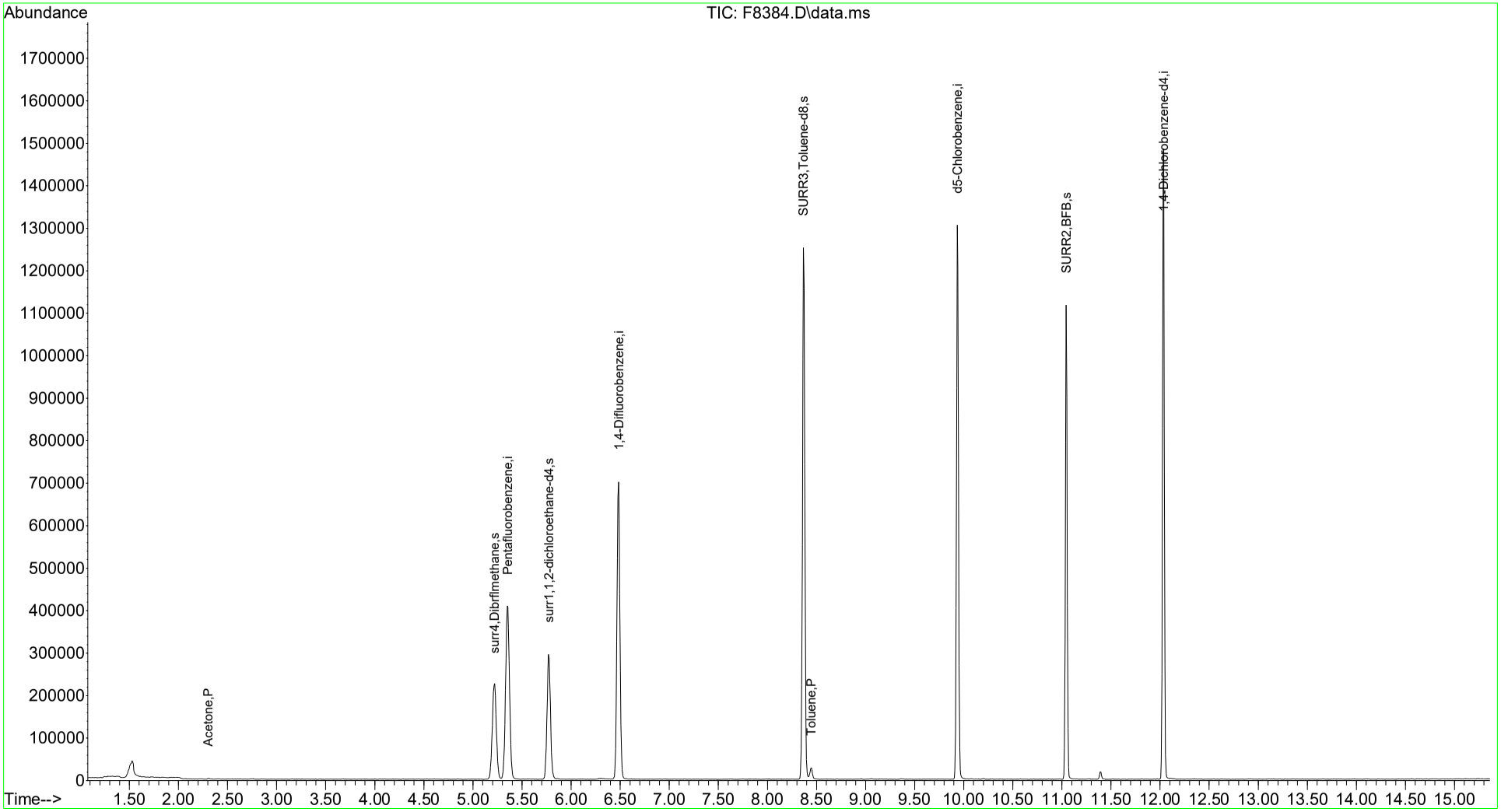
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.356	168	387169	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.484	114	615345	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.934	117	580432	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	12.038	152	292905	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.216	113	189463	48.03	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 96.06%			
48) surr1,1,2-dichloroetha...	5.770	65	255613	49.37	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 98.74%			
65) SURR3,Toluene-d8	8.368	98	755770	47.10	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 94.20%			
70) SURR2,BFB	11.044	95	266632	43.75	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 87.50%			
Target Compounds						Qvalue
16) Acetone	2.302	43	2234	0.973	ug/L	95
66) Toluene	8.447	91	17618	1.118	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

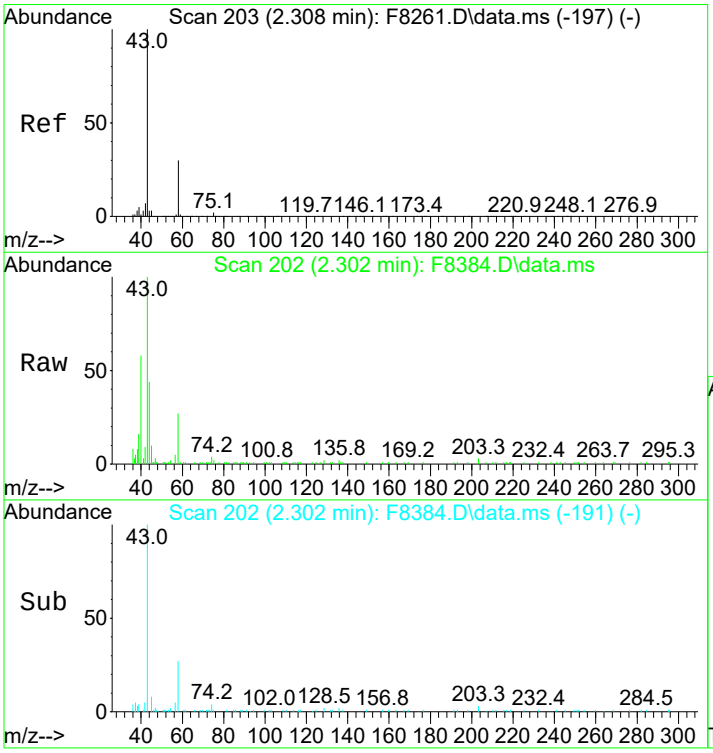
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8384.D
Acq On : 23 Feb 2024 06:40 pm
Operator : F.NAEGLER
Sample : R2401280-003
Misc : CEC 25499 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 25 12:23:03 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



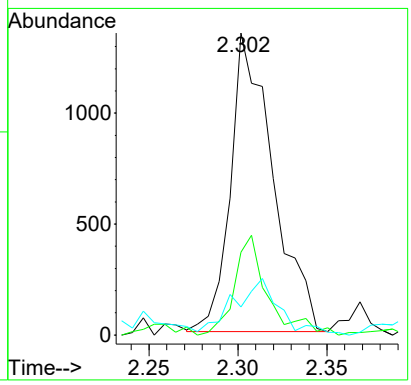
1st FJ 02/26/24
2nd AM 02/27/24

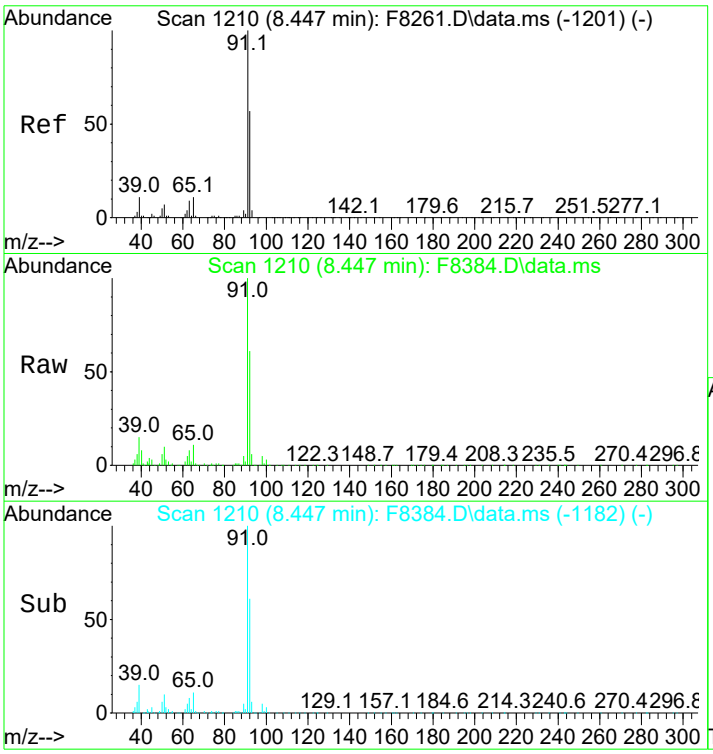


#16
Acetone
Concen: 0.97 ug/L
RT: 2.302 min Scan# 202
Delta R.T. -0.006 min
Lab File: F8384.D
Acq: 23 Feb 2024 06:40 pm

Tgt Ion: 43 Resp: 2234

Ion	Ratio	Lower	Upper
43	100		
58	27.4	10.0	50.0
42	9.3	0.0	27.2

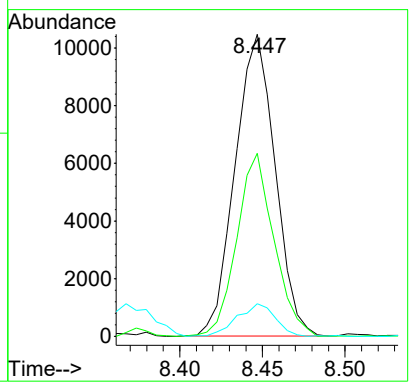




#66
Toluene
Concen: 1.12 ug/L
RT: 8.447 min Scan# 1210
Delta R.T. 0.000 min
Lab File: F8384.D
Acq: 23 Feb 2024 06:40 pm

Tgt Ion: 91 Resp: 17618

Ion	Ratio	Lower	Upper
91	100		
92	60.6	37.4	77.4
65	10.8	0.0	31.5



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8381.D
Acq On : 23 Feb 2024 05:33 pm
Operator : F.NAEGLER
Sample : R2401280-004
Misc : CEC 25499 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 25 12:21:24 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

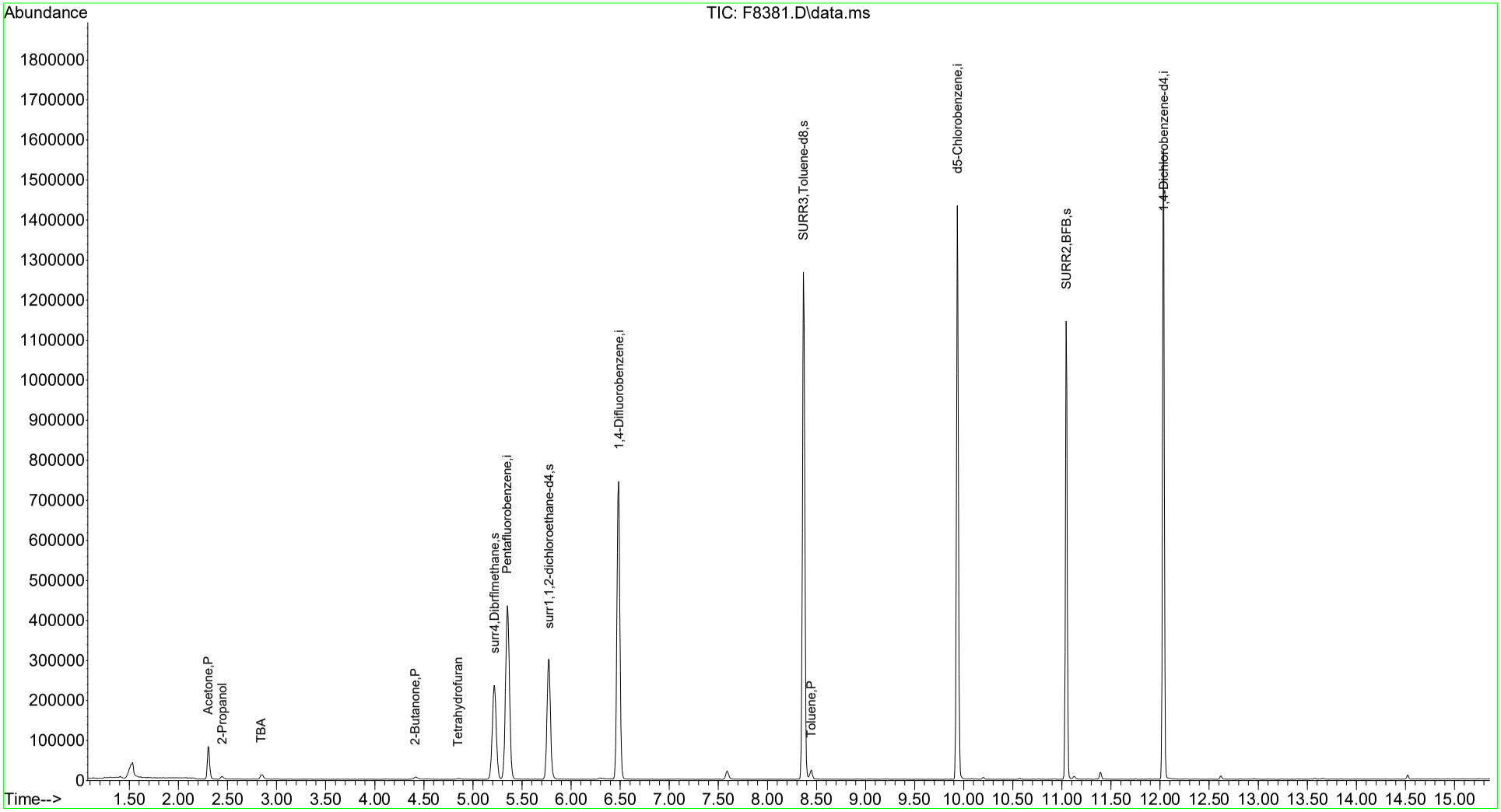
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.350	168	416111	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.484	114	656649	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.934	117	619819	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	12.038	152	306674	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.216	113	196299	46.63	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 93.26%			
48) surr1,1,2-dichloroetha...	5.777	65	264352	47.85	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 95.70%			
65) SURR3,Toluene-d8	8.367	98	786531	45.94	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 91.88%			
70) SURR2,BFB	11.044	95	275142	42.31	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 84.62%#			
Target Compounds						Qvalue
16) Acetone	2.302	43	86868	35.194	ug/L	94
17) 2-Propanol	2.442	45	8386	21.134	ug/L	72
24) TBA	2.844	59	12899	18.677	ug/L	78
35) 2-Butanone	4.411	43	10117	3.014	ug/L	88
39) Tetrahydrofuran	4.850	42	1745	0.783	ug/L #	66
66) Toluene	8.447	91	15001	0.892	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

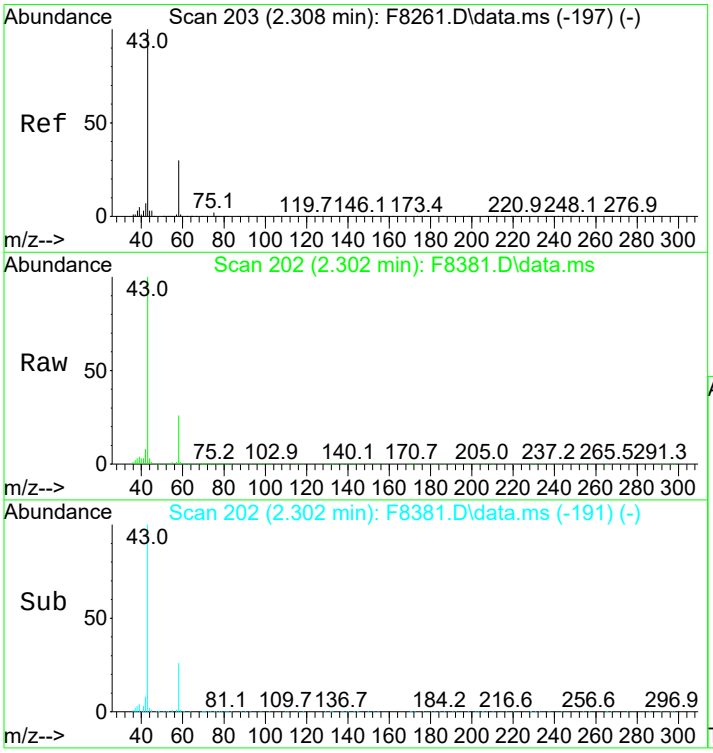
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8381.D
Acq On : 23 Feb 2024 05:33 pm
Operator : F.NAEGLER
Sample : R2401280-004
Misc : CEC 25499 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 25 12:21:24 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



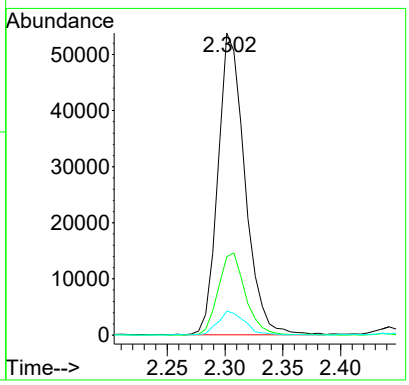
1st FJ 02/26/24
2nd AM 02/27/24

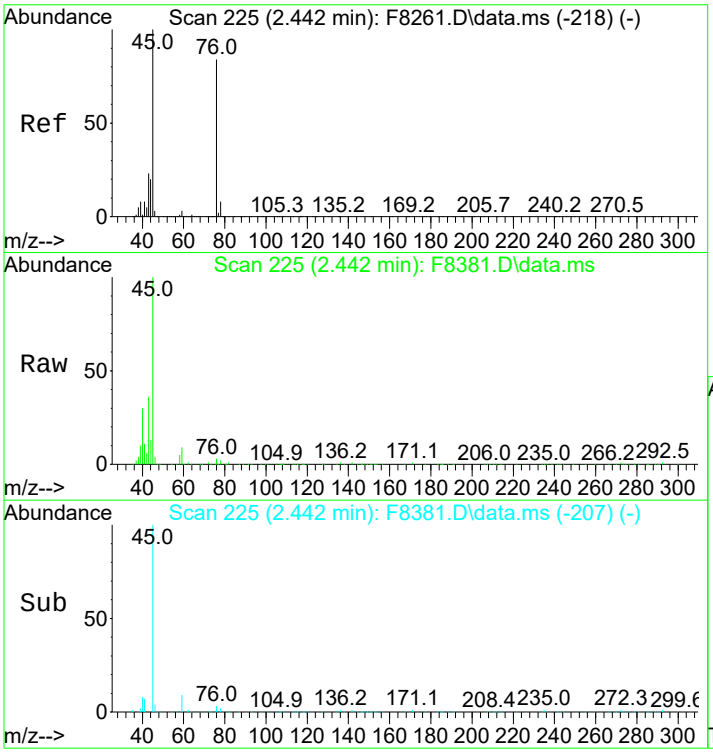


#16
Acetone
Concen: 35.19 ug/L
RT: 2.302 min Scan# 202
Delta R.T. -0.006 min
Lab File: F8381.D
Acq: 23 Feb 2024 05:33 pm

Tgt Ion: 43 Resp: 86868

Ion	Ratio	Lower	Upper
43	100		
58	25.9	10.0	50.0
42	7.9	0.0	27.2

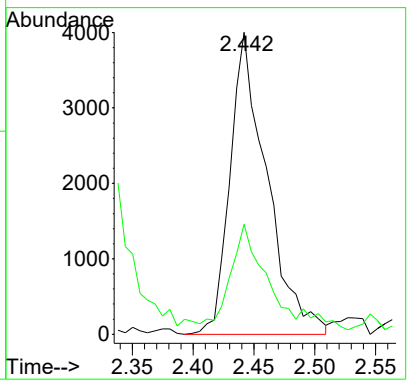


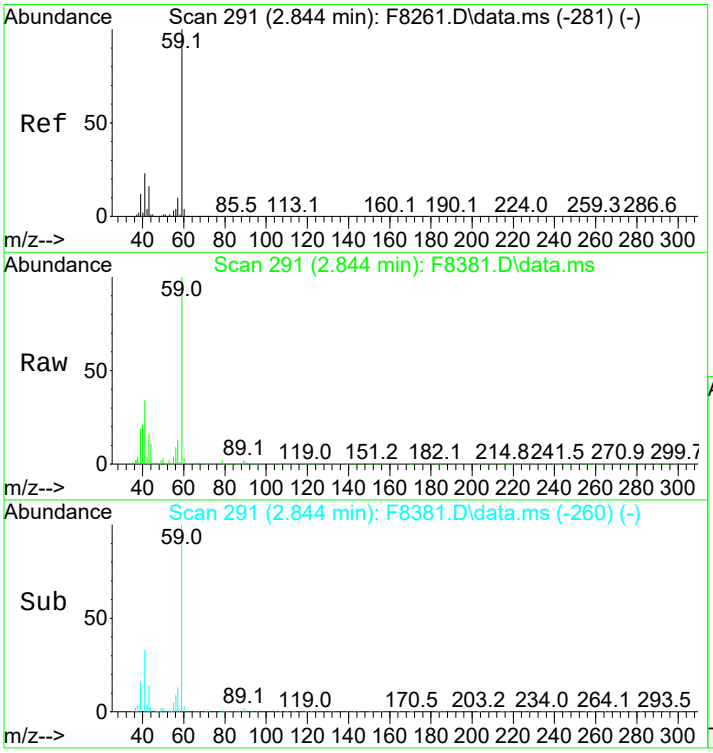


#17
2-Propanol
Concen: 21.13 ug/L
RT: 2.442 min Scan# 225
Delta R.T. 0.000 min
Lab File: F8381.D
Acq: 23 Feb 2024 05:33 pm

Tgt Ion: 45 Resp: 8386

Ion	Ratio	Lower	Upper
45	100		
43	36.4	3.0	43.0

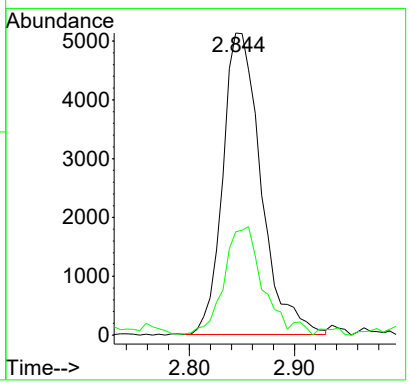


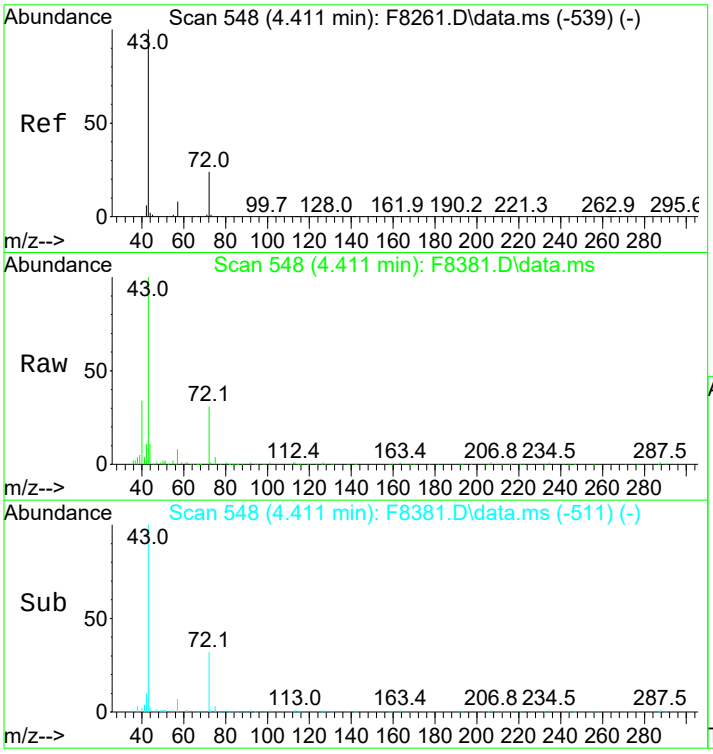


#24
TBA
Concen: 18.68 ug/L
RT: 2.844 min Scan# 291
Delta R.T. 0.000 min
Lab File: F8381.D
Acq: 23 Feb 2024 05:33 pm

Tgt Ion: 59 Resp: 12899

Ion	Ratio	Lower	Upper
59	100		
41	34.2	3.6	43.6

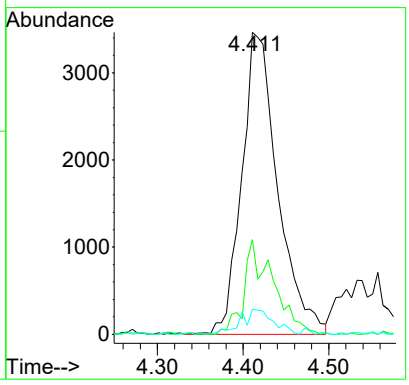


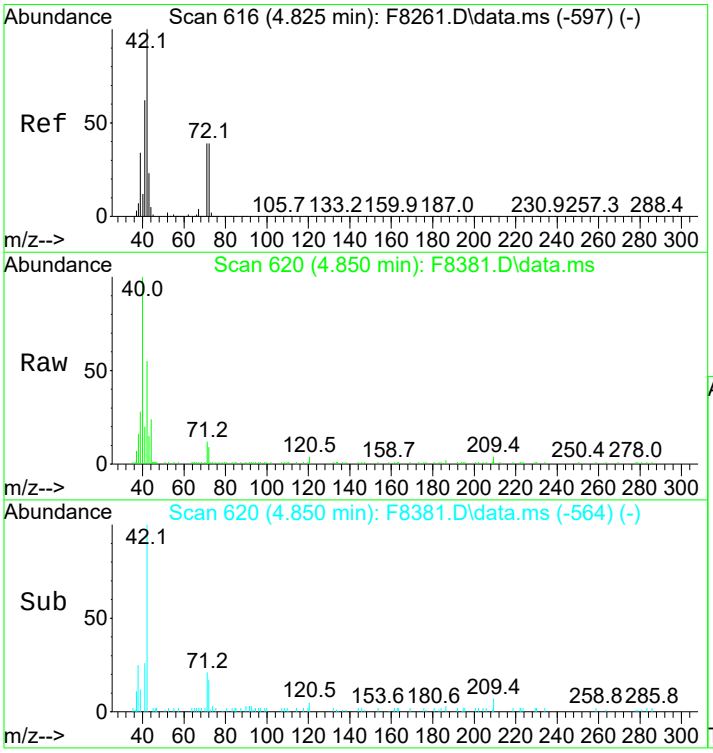


#35
2-Butanone
Concen: 3.01 ug/L
RT: 4.411 min Scan# 548
Delta R.T. 0.000 min
Lab File: F8381.D
Acq: 23 Feb 2024 05:33 pm

Tgt Ion: 43 Resp: 10117

Ion	Ratio	Lower	Upper
43	100		
72	32.4	4.5	44.5
57	8.3	0.0	27.8

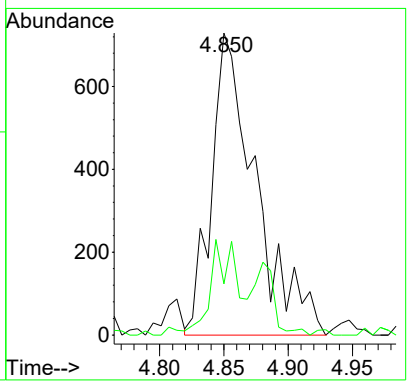


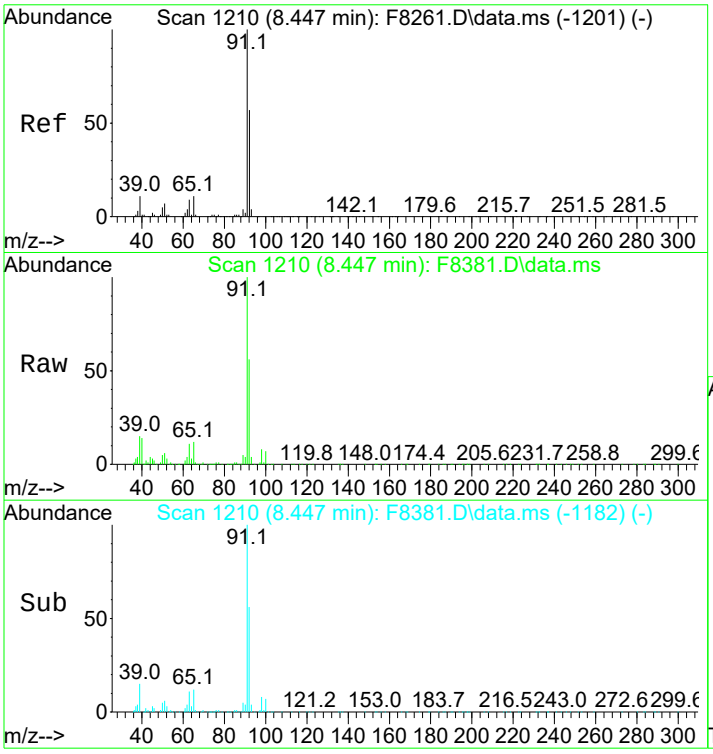


#39
Tetrahydrofuran
Concen: 0.78 ug/L
RT: 4.850 min Scan# 620
Delta R.T. 0.024 min
Lab File: F8381.D
Acq: 23 Feb 2024 05:33 pm

Tgt Ion: 42 Resp: 1745

Ion	Ratio	Lower	Upper
42	100		
72	18.2	18.9	58.9#

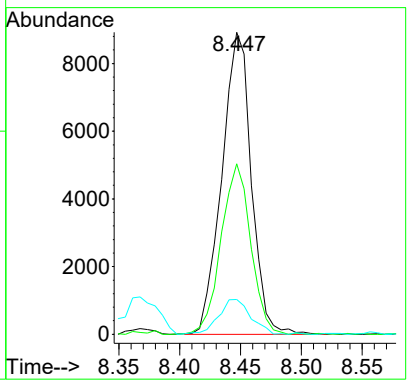




#66
Toluene
Concen: 0.89 ug/L
RT: 8.447 min Scan# 1210
Delta R.T. 0.000 min
Lab File: F8381.D
Acq: 23 Feb 2024 05:33 pm

Tgt Ion: 91 Resp: 15001

Ion	Ratio	Lower	Upper
91	100		
92	56.5	37.4	77.4
65	11.5	0.0	31.5



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8379.D
Acq On : 23 Feb 2024 04:48 pm
Operator : F.NAEGLER
Sample : R2401280-005
Misc : CEC 25499 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 25 12:20:45 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

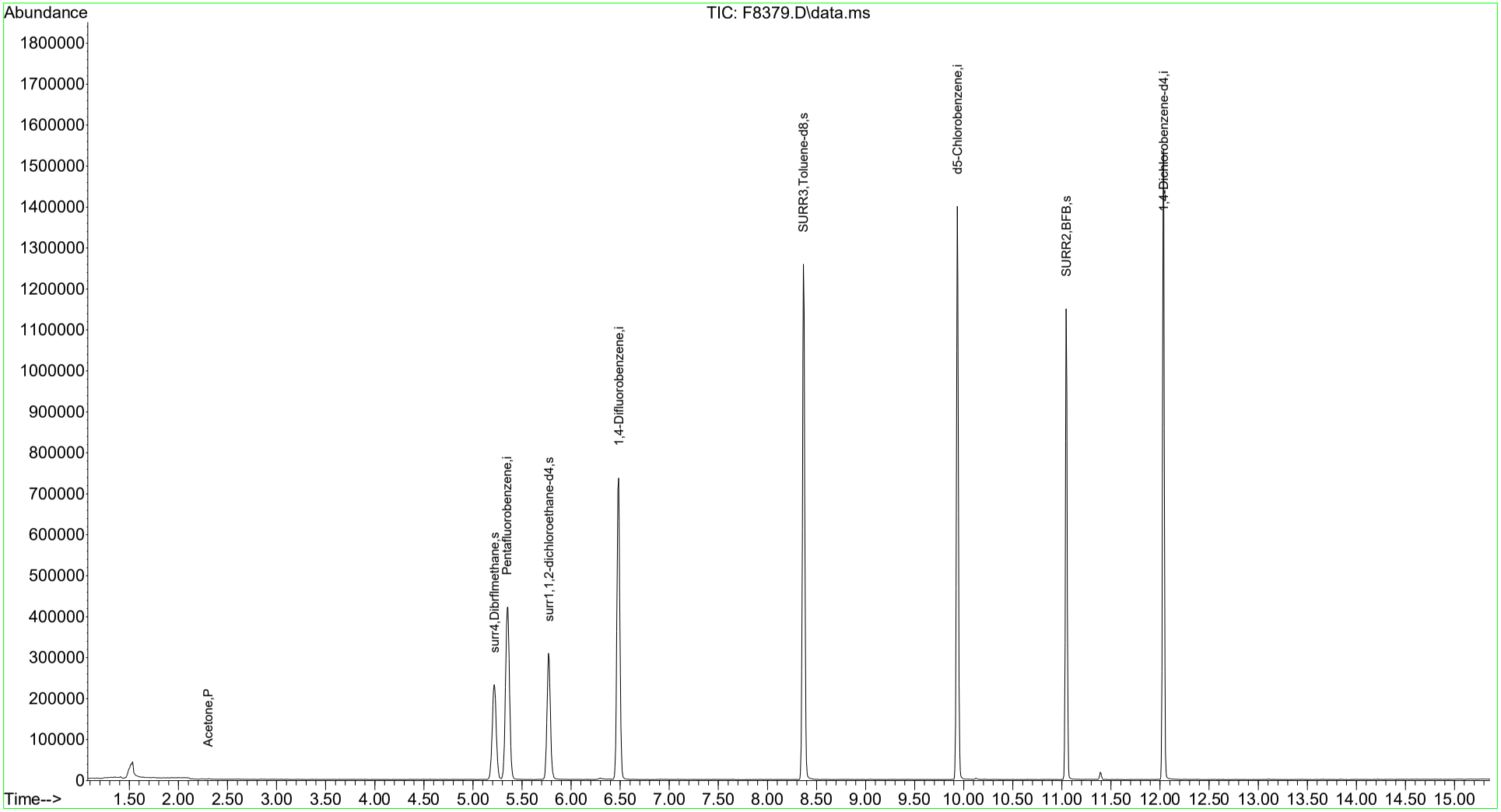
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.350	168	407708	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.484	114	649587	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.934	117	605630	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	12.038	152	304278	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.216	113	195415	46.92	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 93.84%			
48) surr1,1,2-dichloroetha...	5.770	65	267416	48.93	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 97.86%			
65) SURR3,Toluene-d8	8.367	98	768405	45.37	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 90.74%			
70) SURR2,BFB	11.044	95	272098	42.29	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 84.58%#			
Target Compounds						Qvalue
4) Chloromethane	1.247	50	586	Below Cal		71
16) Acetone	2.302	43	1699	0.703	ug/L	74

(#) = qualifier out of range (m) = manual integration (+) = signals summed

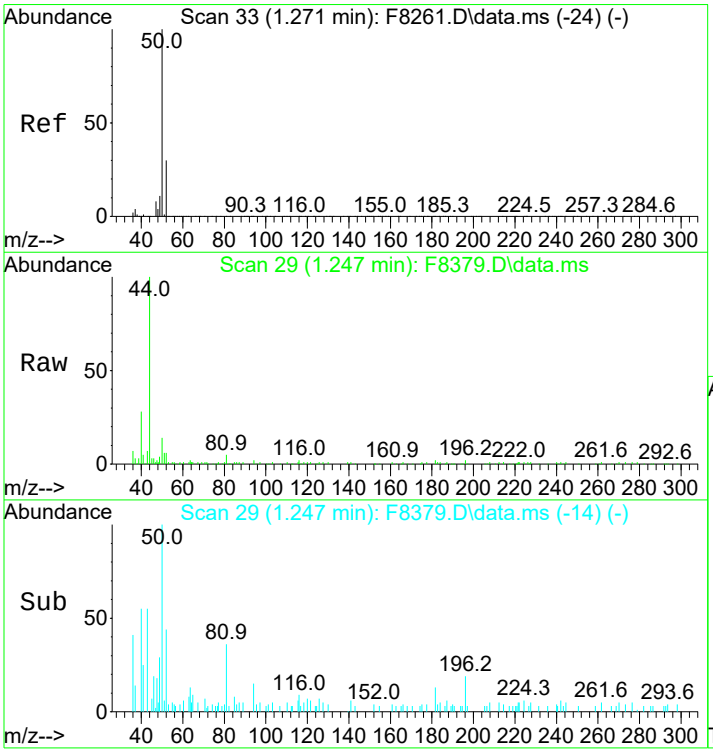
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8379.D
Acq On : 23 Feb 2024 04:48 pm
Operator : F.NAEGLER
Sample : R2401280-005
Misc : CEC 25499 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 25 12:20:45 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



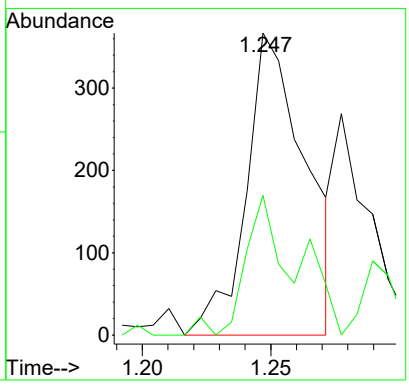
1st FJ 02/26/24
2nd AM 02/27/24

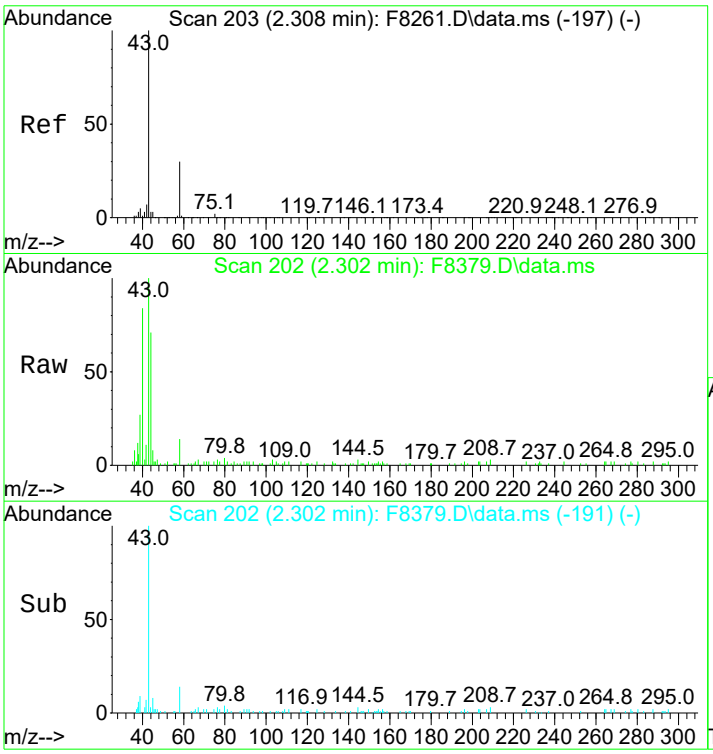


#4
Chloromethane
Concen: Below Cal
RT: 1.247 min Scan# 29
Delta R.T. -0.024 min
Lab File: F8379.D
Acq: 23 Feb 2024 04:48 pm

Tgt Ion: 50 Resp: 586

Ion	Ratio	Lower	Upper
50	100		
52	46.3	10.3	50.3

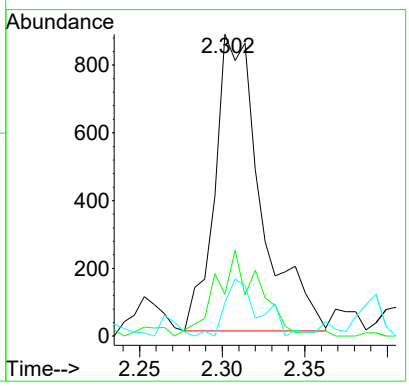




#16
Acetone
Concen: 0.70 ug/L
RT: 2.302 min Scan# 202
Delta R.T. -0.006 min
Lab File: F8379.D
Acq: 23 Feb 2024 04:48 pm

Tgt Ion: 43 Resp: 1699

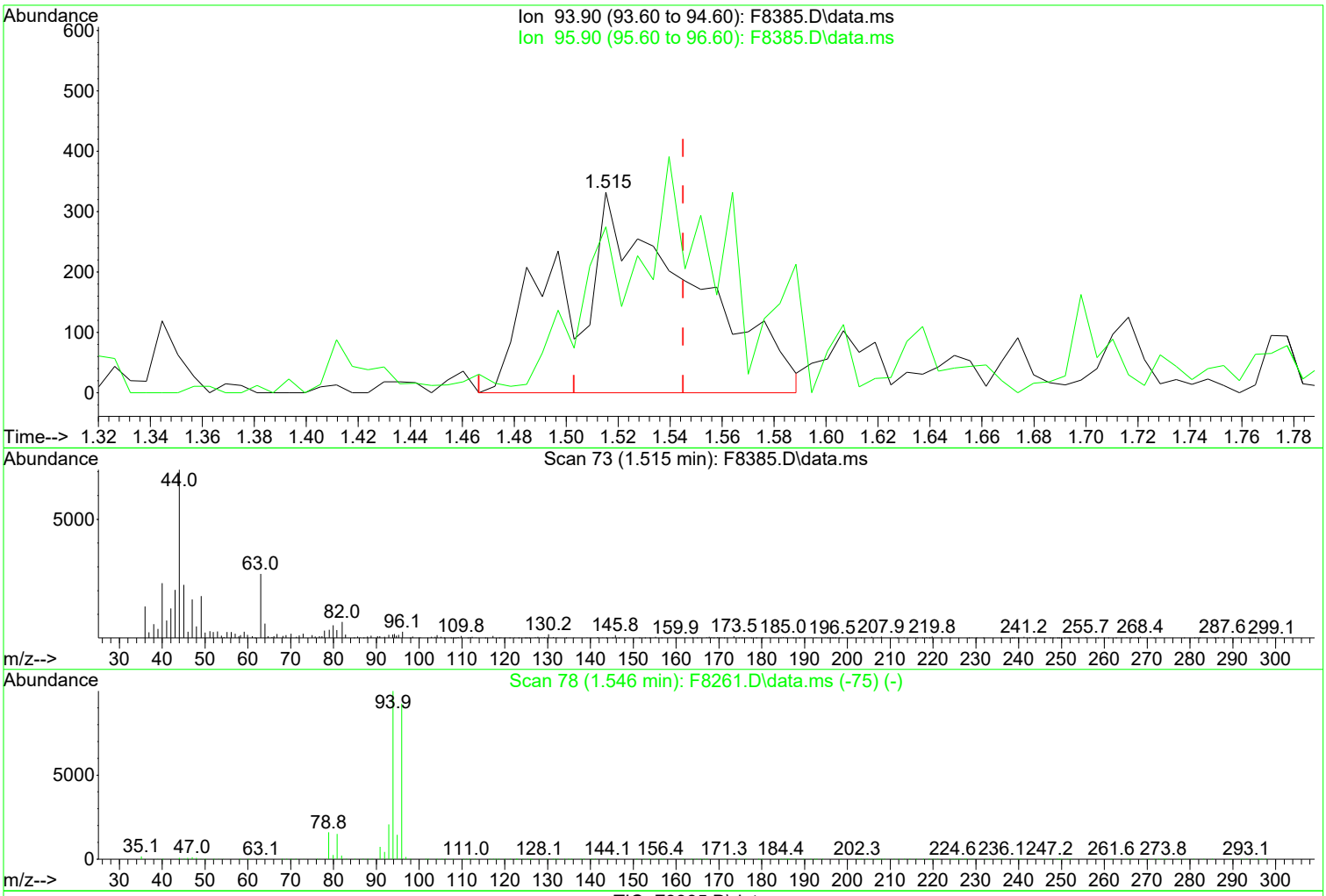
Ion	Ratio	Lower	Upper
43	100		
58	13.8	10.0	50.0
42	11.1	0.0	27.2



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8385.D
Acq On : 23 Feb 2024 07:02 pm
Operator : F.NAEGLER
Sample : R2401280-006
Misc : CEC 25499 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Feb 25 12:23:23 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



TIC: F8385.D\data.ms

(6) Bromomethane (P)

1.515min (-0.030) 0.39 ug/L m

response 1133

Ion	Exp%	Act%
93.90	100.00	100.00
95.90	92.30	156.25#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

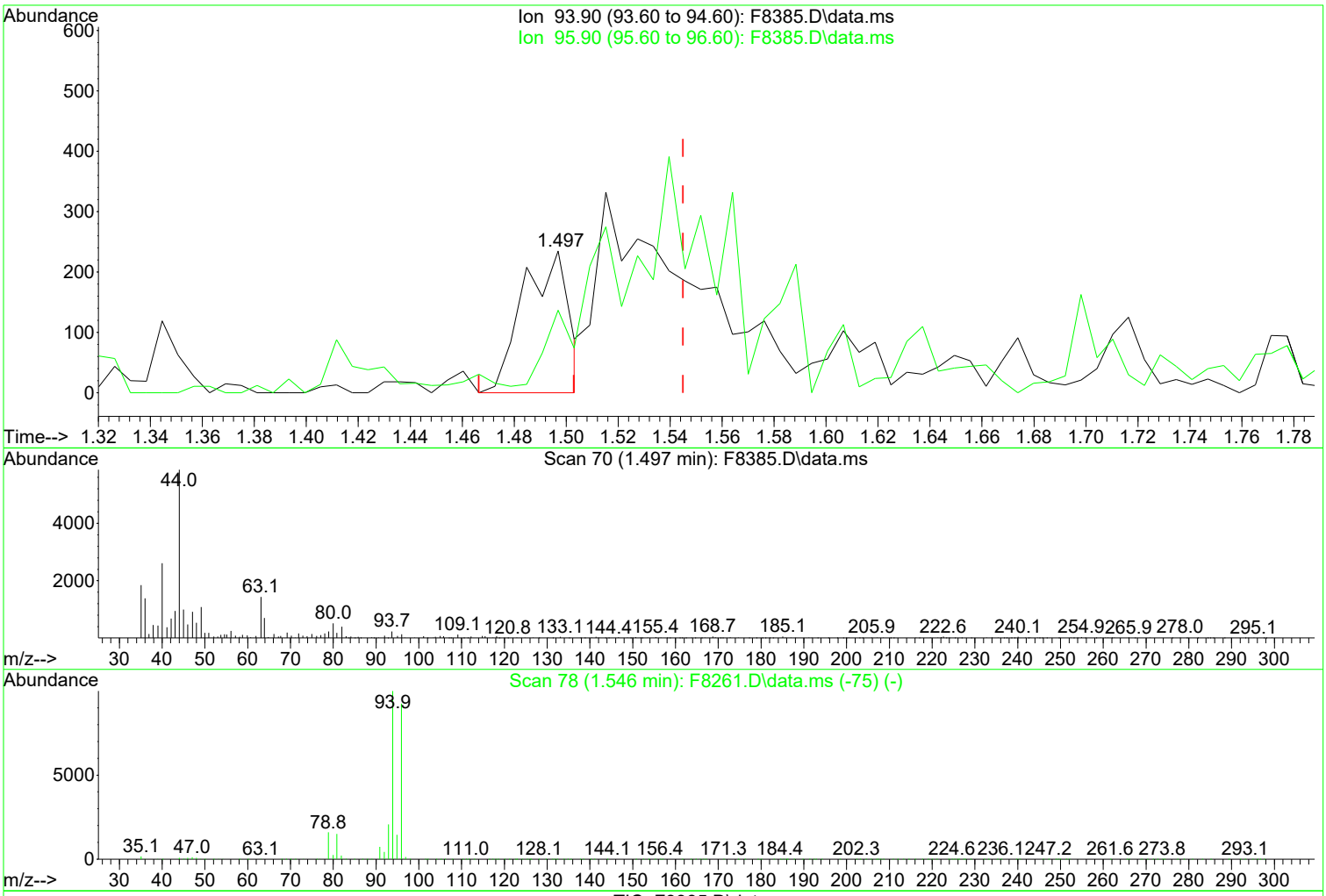
Poor integration.

02/26/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8385.D
Acq On : 23 Feb 2024 07:02 pm
Operator : F.NAEGLER
Sample : R2401280-006
Misc : CEC 25499 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Feb 25 12:23:23 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



TIC: F8385.D\data.ms

(6) Bromomethane (P)

1.497min (-0.048) 0.25 ug/L

response 288

Ion	Exp%	Act%
93.90	100.00	100.00
95.90	92.30	58.30#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

02/26/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8385.D
Acq On : 23 Feb 2024 07:02 pm
Operator : F.NAEGLER
Sample : R2401280-006
Misc : CEC 25499 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Feb 25 12:23:23 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

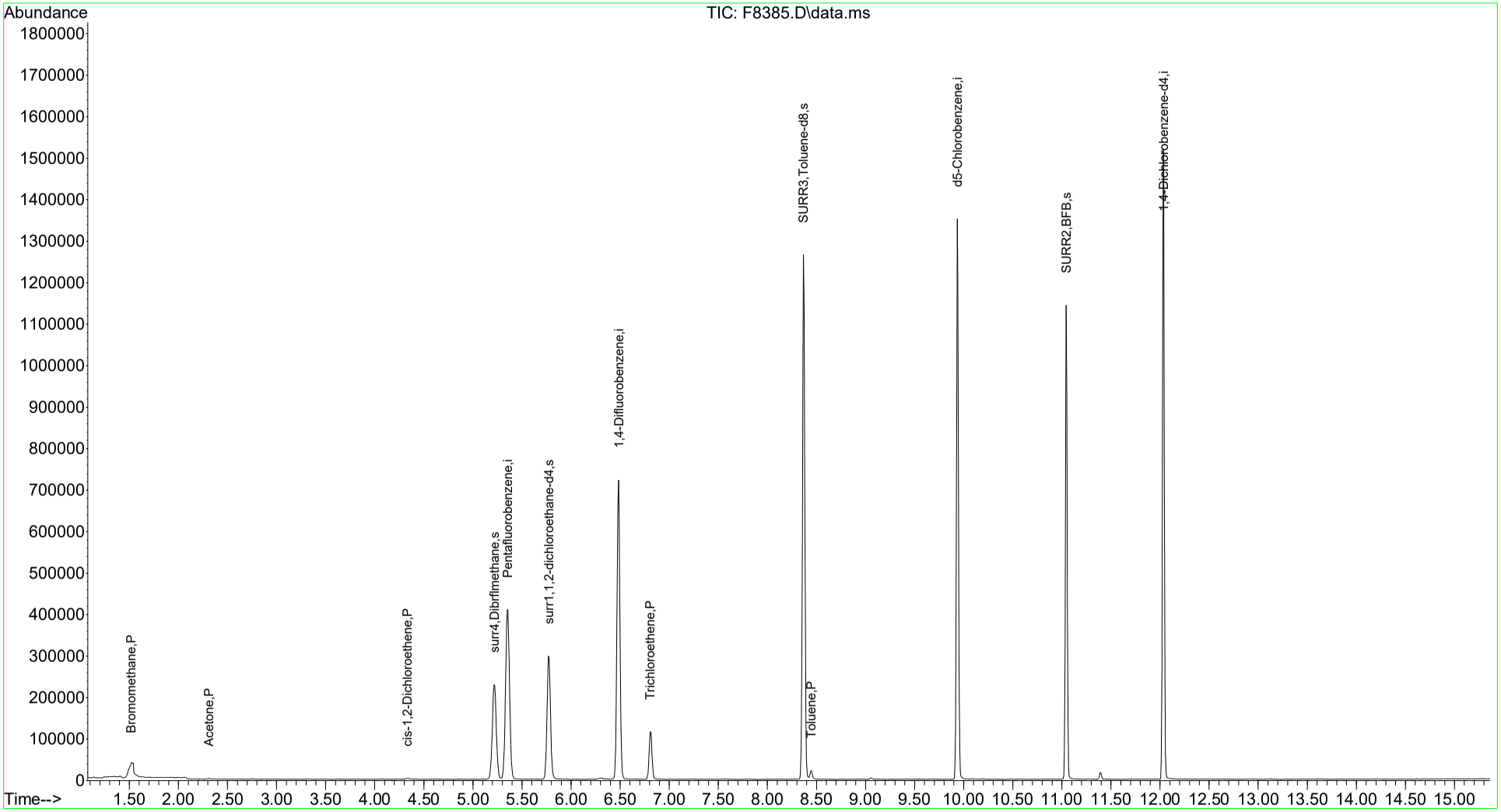
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.356	168	395830	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.484	114	630911	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.934	117	583326	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	12.038	152	297904	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.216	113	187964	46.47	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 92.94%			
48) surr1,1,2-dichloroetha...	5.770	65	261440	49.25	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 98.50%			
65) SURR3,Toluene-d8	8.368	98	766282	46.58	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 93.16%			
70) SURR2,BFB	11.044	95	273554	43.78	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 87.56%			
Target Compounds						Qvalue
6) Bromomethane	1.515	94	1133m	0.387	ug/L	
16) Acetone	2.308	43	2172	0.925	ug/L	72
34) cis-1,2-Dichloroethene	4.332	96	1291	0.320	ug/L #	82
54) Trichloroethene	6.807	130	40529	10.719	ug/L	96
66) Toluene	8.447	91	12898	0.798	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

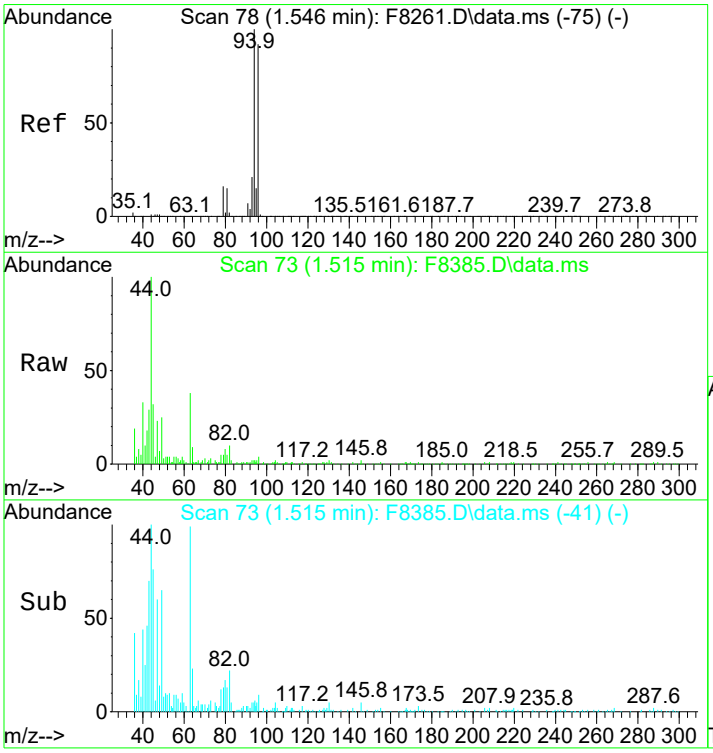
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8385.D
Acq On : 23 Feb 2024 07:02 pm
Operator : F.NAEGLER
Sample : R2401280-006
Misc : CEC 25499 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Feb 25 12:23:23 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



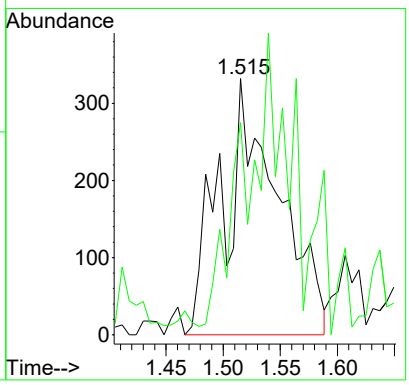
1st FJ 02/26/24
2nd AM 02/27/24

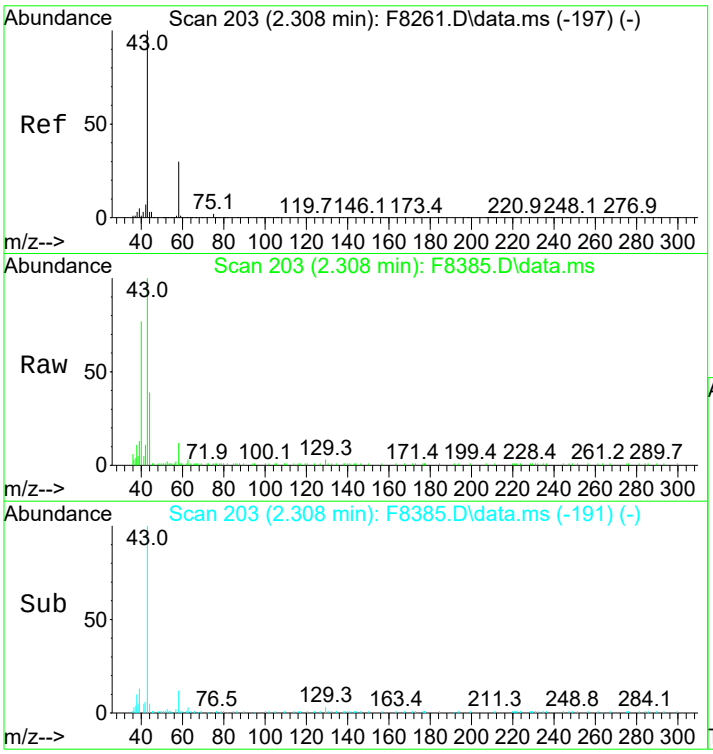


#6
Bromomethane
Concen: 0.39 ug/L m
RT: 1.515 min Scan# 73
Delta R.T. -0.030 min
Lab File: F8385.D
Acq: 23 Feb 2024 07:02 pm

Tgt Ion: 94 Resp: 1133

Ion	Ratio	Lower	Upper
94	100		
96	156.3	72.3	112.3#

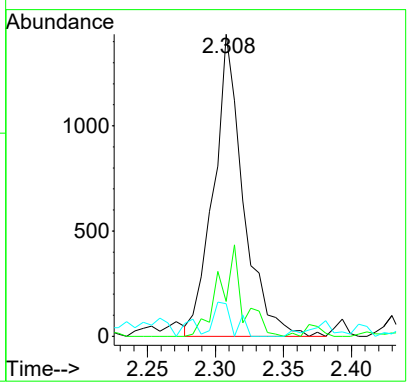


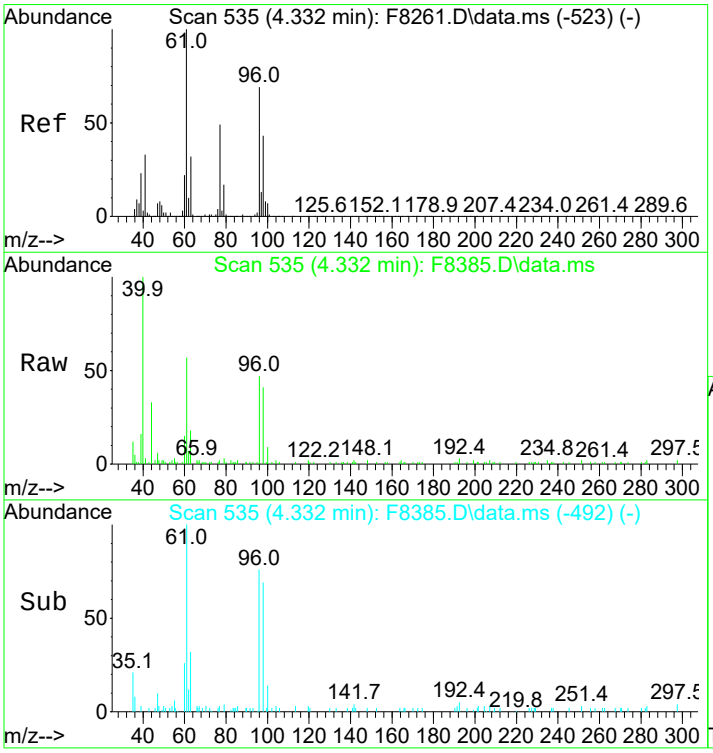


#16
Acetone
Concen: 0.93 ug/L
RT: 2.308 min Scan# 203
Delta R.T. 0.000 min
Lab File: F8385.D
Acq: 23 Feb 2024 07:02 pm

Tgt Ion: 43 Resp: 2172

Ion	Ratio	Lower	Upper
43	100		
58	12.7	10.0	50.0
42	10.8	0.0	27.2

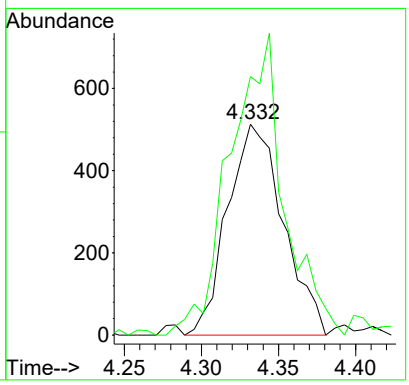


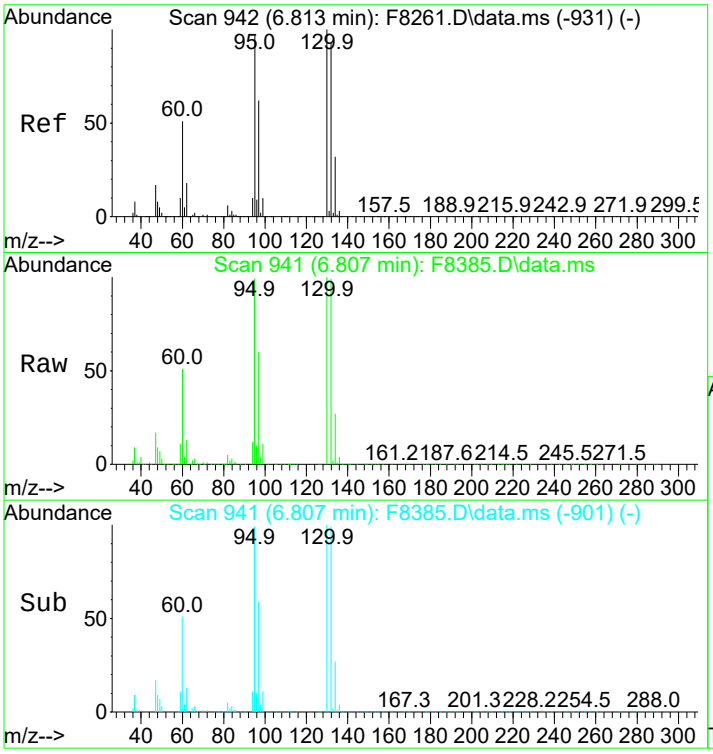


#34
cis-1,2-Dichloroethene
Concen: 0.32 ug/L
RT: 4.332 min Scan# 535
Delta R.T. 0.000 min
Lab File: F8385.D
Acq: 23 Feb 2024 07:02 pm

Tgt Ion: 96 Resp: 1291

Ion	Ratio	Lower	Upper
96	100		
61	122.6	124.5	164.5#

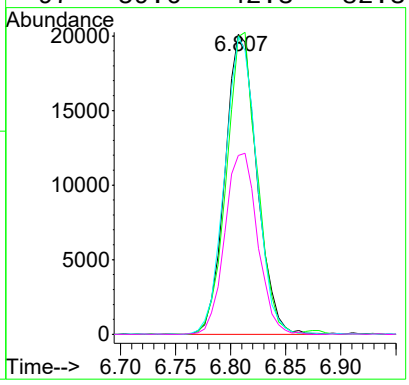


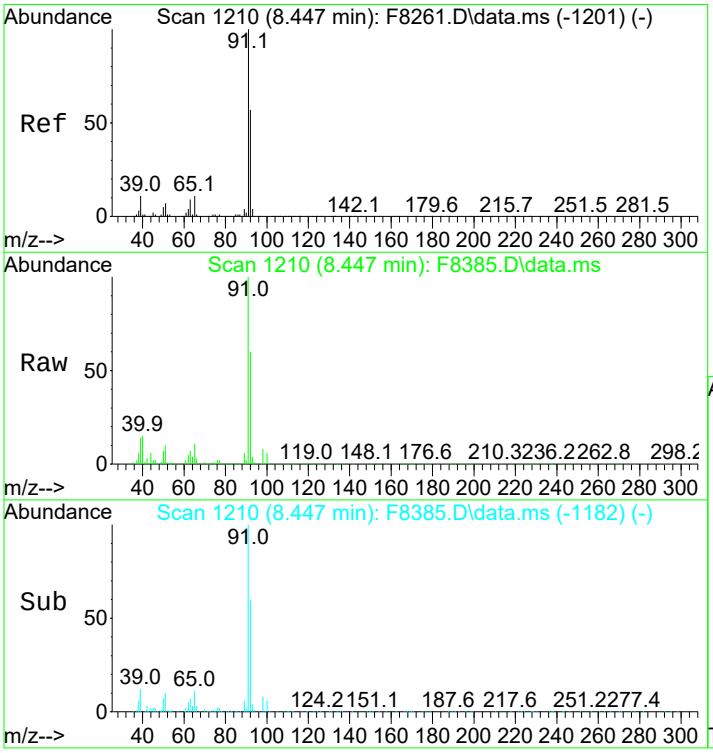


#54
Trichloroethene
Concen: 10.72 ug/L
RT: 6.807 min Scan# 941
Delta R.T. -0.006 min
Lab File: F8385.D
Acq: 23 Feb 2024 07:02 pm

Tgt Ion:130 Resp: 40529

Ion	Ratio	Lower	Upper
130	100		
132	99.2	73.2	113.2
95	99.3	77.2	117.2
97	59.6	42.3	82.3

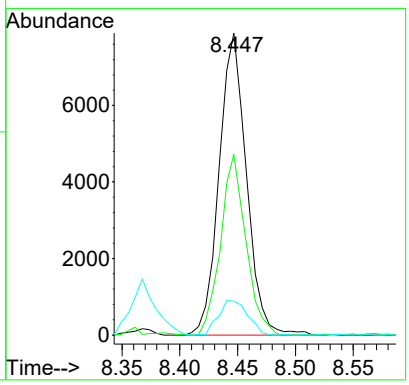




#66
Toluene
Concen: 0.80 ug/L
RT: 8.447 min Scan# 1210
Delta R.T. 0.000 min
Lab File: F8385.D
Acq: 23 Feb 2024 07:02 pm

Tgt Ion: 91 Resp: 12898

Ion	Ratio	Lower	Upper
91	100		
92	59.9	37.4	77.4
65	11.2	0.0	31.5



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8380.D
Acq On : 23 Feb 2024 05:10 pm
Operator : F.NAEGLER
Sample : R2401280-007
Misc : CEC 25499 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 25 12:21:05 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

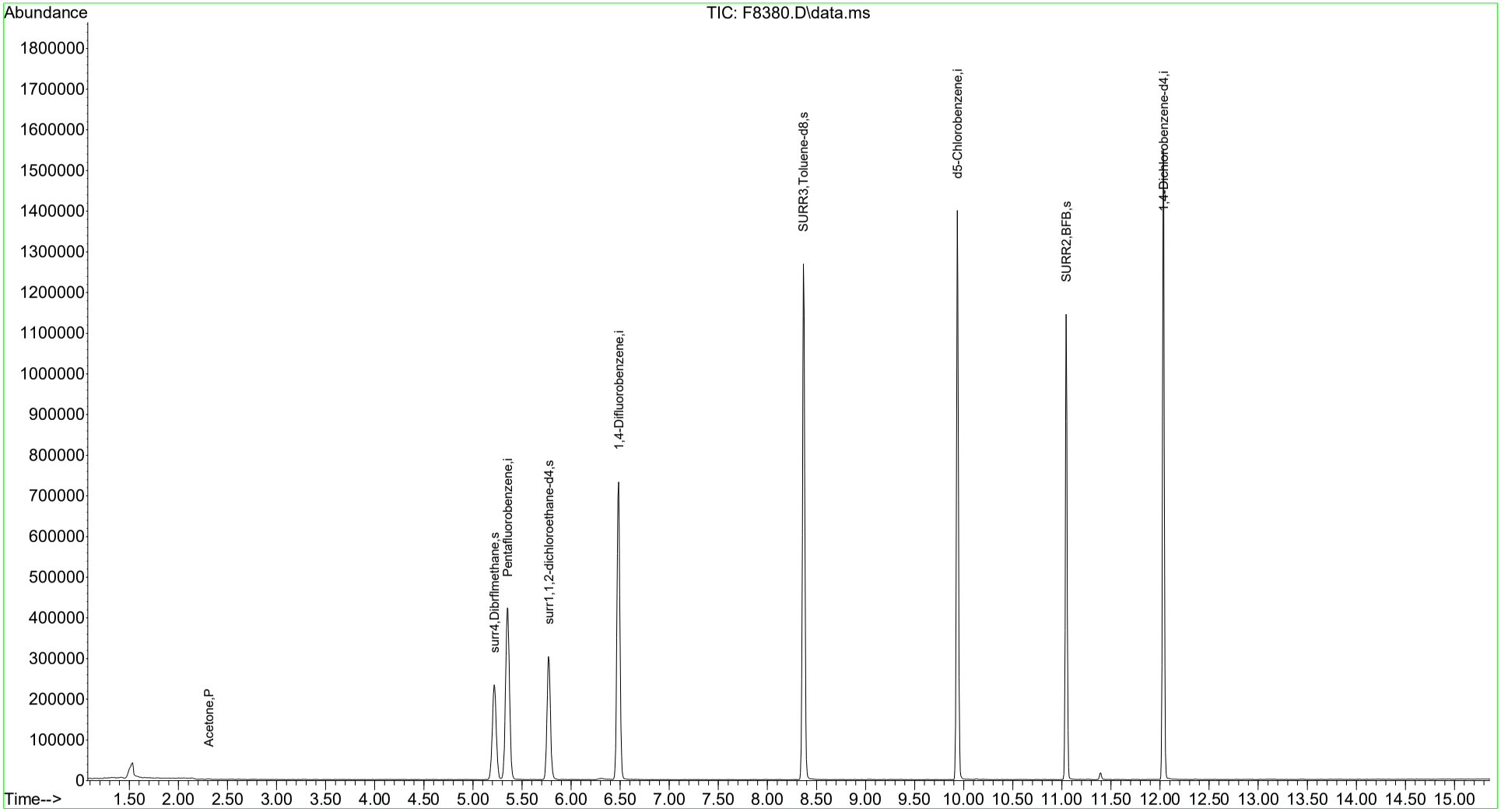
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.356	168	402614	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.484	114	649184	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.934	117	612021	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	12.038	152	304350	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.216	113	191451	46.00	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 92.00%			
48) surr1,1,2-dichloroetha...	5.771	65	262704	48.10	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 96.20%			
65) SURR3,Toluene-d8	8.368	98	774318	45.75	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 91.50%			
70) SURR2,BFB	11.044	95	276691	43.03	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 86.06%			
Target Compounds						Qvalue
4) Chloromethane	1.259	50	732m	Below Cal		
16) Acetone	2.314	43	1824	0.764	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

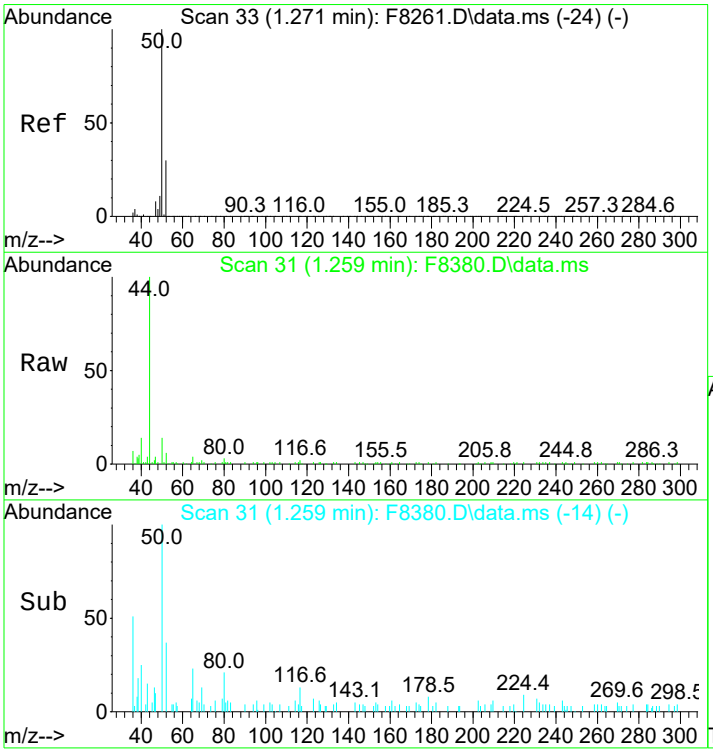
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8380.D
Acq On : 23 Feb 2024 05:10 pm
Operator : F.NAEGLER
Sample : R2401280-007
Misc : CEC 25499 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 25 12:21:05 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



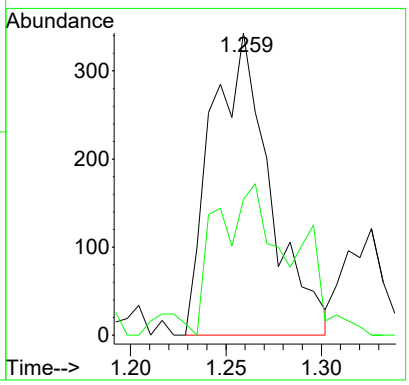
1st FJ 02/26/24
2nd AM 02/27/24

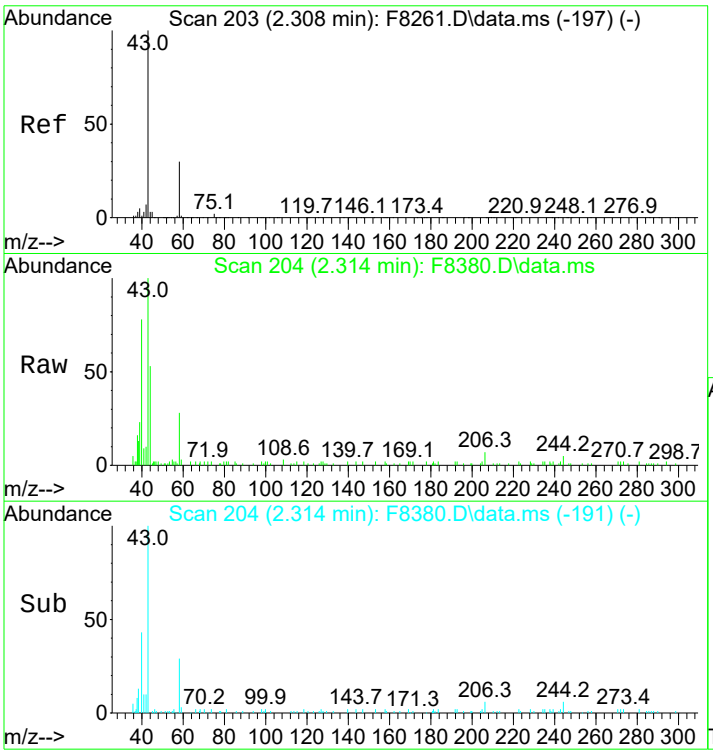


#4
Chloromethane
Concen: Below Cal m
RT: 1.259 min Scan# 31
Delta R.T. -0.012 min
Lab File: F8380.D
Acq: 23 Feb 2024 05:10 pm

Tgt Ion: 50 Resp: 732

Ion	Ratio	Lower	Upper
50	100		
52	44.9	10.3	50.3

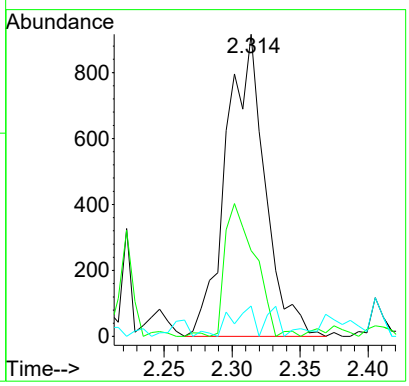




#16
Acetone
Concen: 0.76 ug/L
RT: 2.314 min Scan# 204
Delta R.T. 0.006 min
Lab File: F8380.D
Acq: 23 Feb 2024 05:10 pm

Tgt Ion: 43 Resp: 1824

Ion	Ratio	Lower	Upper
43	100		
58	28.4	10.0	50.0
42	10.0	0.0	27.2



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8386.D
Acq On : 23 Feb 2024 07:24 pm
Operator : F.NAEGLER
Sample : R2401280-008
Misc : CEC 25499 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Feb 25 12:23:37 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

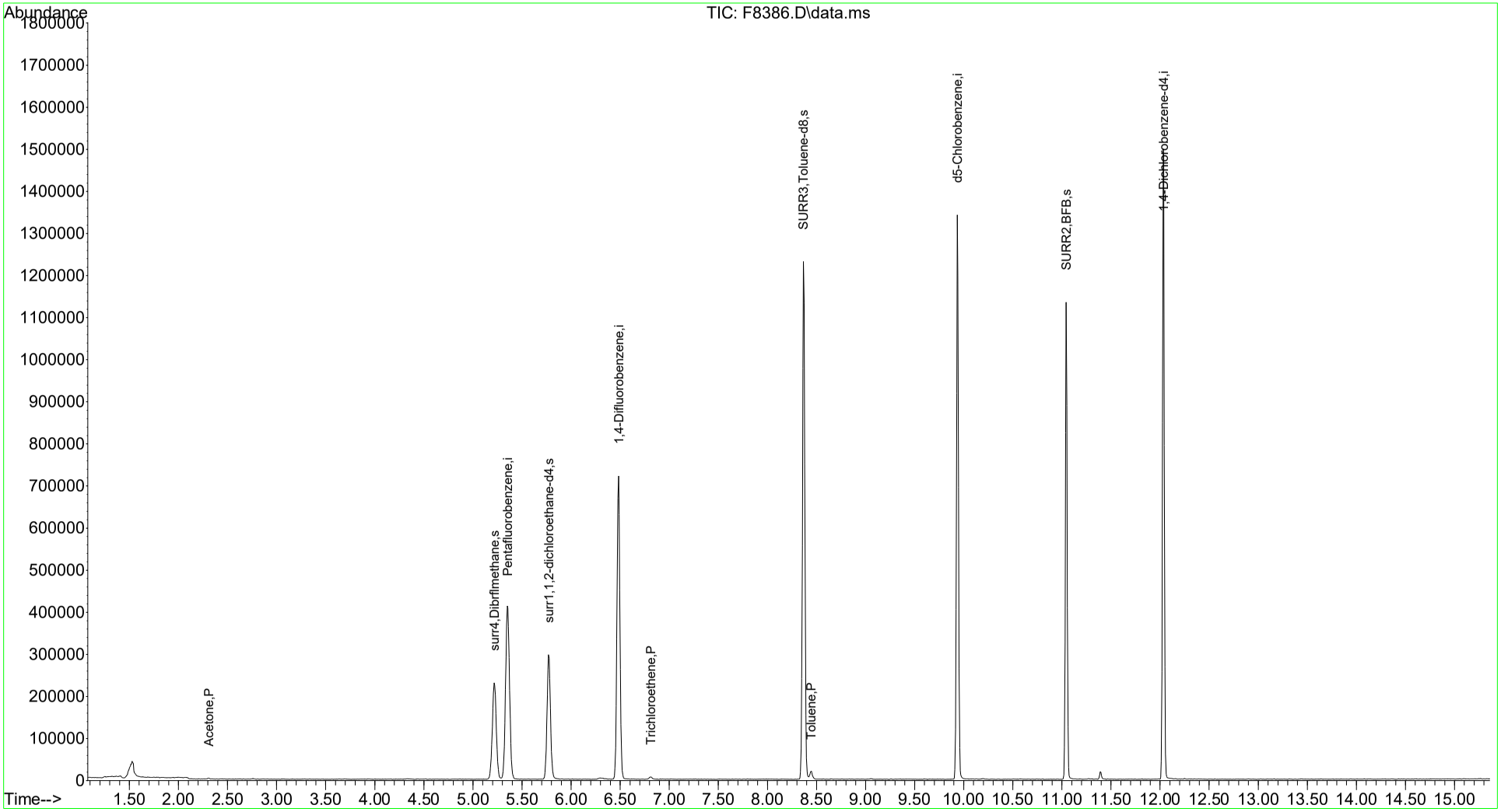
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.356	168	393864	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.484	114	632312	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.934	117	582479	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	12.038	152	294127	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.216	113	188037	46.39	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 92.78%			
48) surr1,1,2-dichloroetha...	5.770	65	256769	48.27	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 96.54%			
65) SURR3,Toluene-d8	8.368	98	757688	45.96	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 91.92%			
70) SURR2,BFB	11.044	95	269438	43.02	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 86.04%			
Target Compounds						Qvalue
4) Chloromethane	1.247	50	688	Below Cal		90
16) Acetone	2.314	43	2473	1.059	ug/L	85
54) Trichloroethene	6.813	130	1979	0.522	ug/L #	89
66) Toluene	8.441	91	12344	0.762	ug/L	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

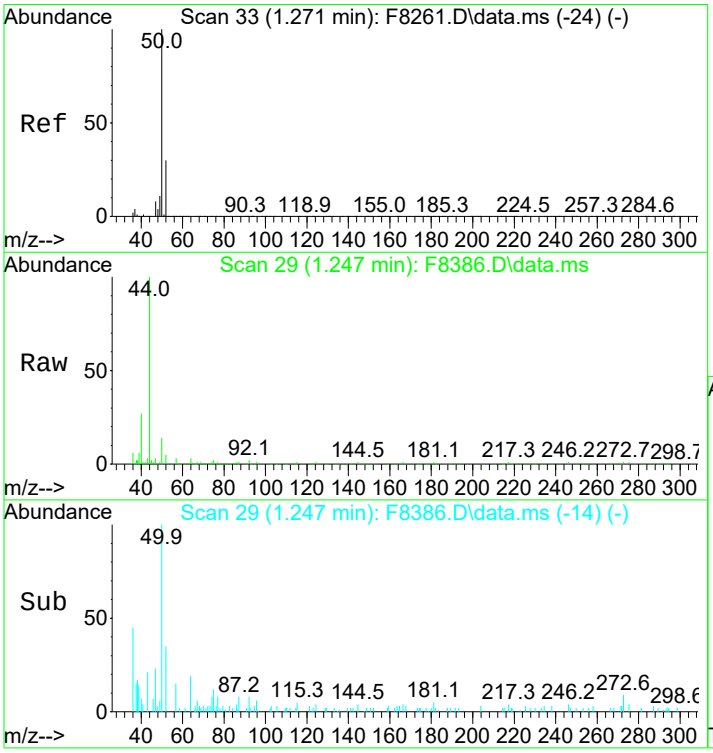
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8386.D
Acq On : 23 Feb 2024 07:24 pm
Operator : F.NAEGLER
Sample : R2401280-008
Misc : CEC 25499 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Feb 25 12:23:37 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



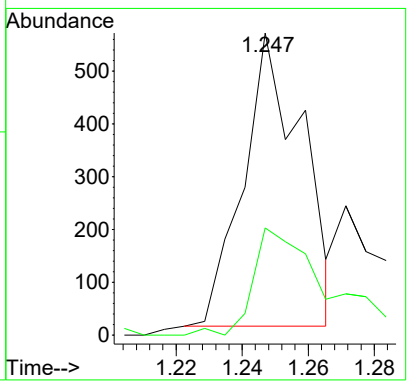
1st FJ 02/26/24
2nd AM 02/27/24

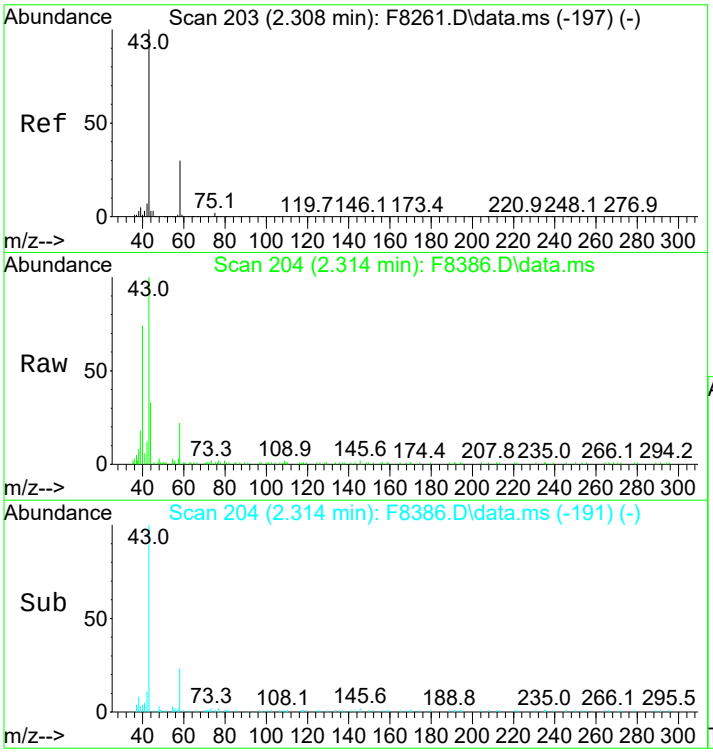


#4
Chloromethane
Concen: Below Cal
RT: 1.247 min Scan# 29
Delta R.T. -0.024 min
Lab File: F8386.D
Acq: 23 Feb 2024 07:24 pm

Tgt Ion: 50 Resp: 688

Ion	Ratio	Lower	Upper
50	100		
52	35.5	10.3	50.3

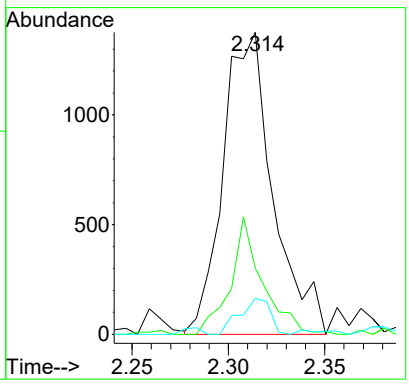


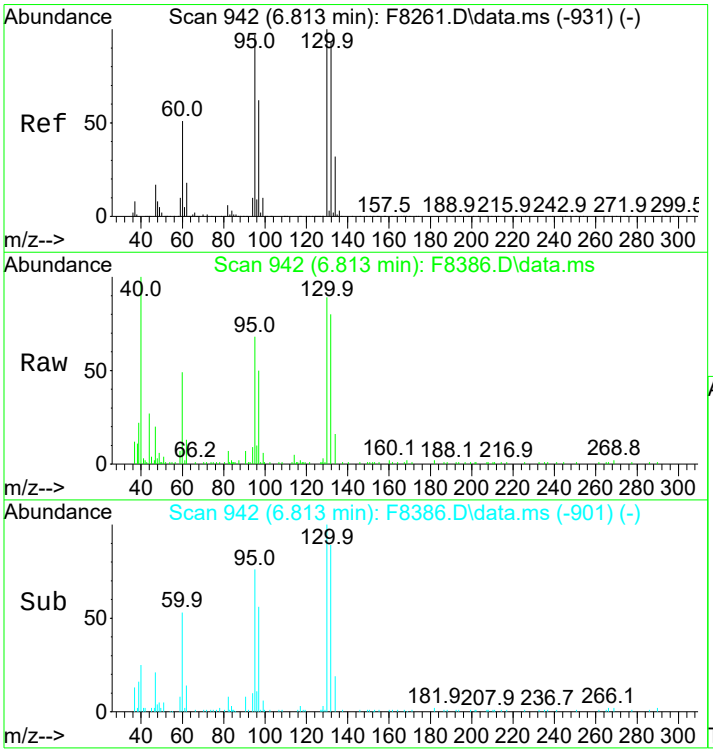


#16
Acetone
Concen: 1.06 ug/L
RT: 2.314 min Scan# 204
Delta R.T. 0.006 min
Lab File: F8386.D
Acq: 23 Feb 2024 07:24 pm

Tgt Ion: 43 Resp: 2473

Ion	Ratio	Lower	Upper
43	100		
58	21.9	10.0	50.0
42	12.0	0.0	27.2

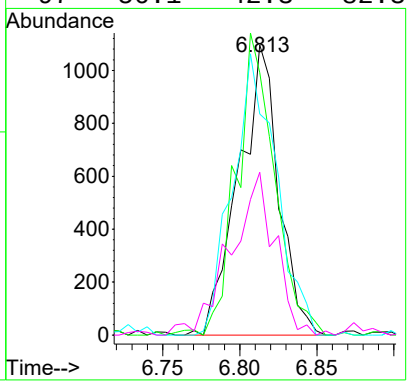


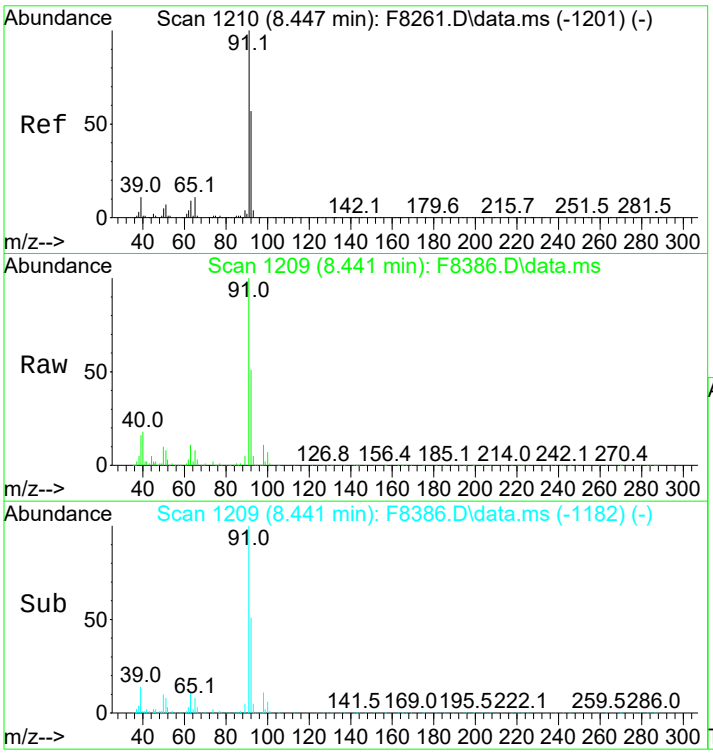


#54
Trichloroethene
Concen: 0.52 ug/L
RT: 6.813 min Scan# 942
Delta R.T. 0.000 min
Lab File: F8386.D
Acq: 23 Feb 2024 07:24 pm

Tgt Ion:130 Resp: 1979

Ion	Ratio	Lower	Upper
130	100		
132	90.4	73.2	113.2
95	76.2	77.2	117.2#
97	56.1	42.3	82.3

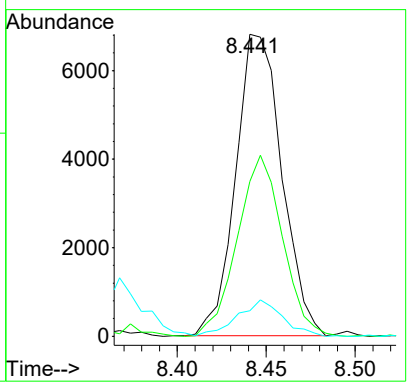




#66
Toluene
Concen: 0.76 ug/L
RT: 8.441 min Scan# 1209
Delta R.T. -0.006 min
Lab File: F8386.D
Acq: 23 Feb 2024 07:24 pm

Tgt Ion: 91 Resp: 12344

Ion	Ratio	Lower	Upper
91	100		
92	51.2	37.4	77.4
65	8.4	0.0	31.5



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8387.D
Acq On : 23 Feb 2024 07:47 pm
Operator : F.NAEGLER
Sample : R2401280-009
Misc : CEC 25499 T4
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Feb 25 12:23:56 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

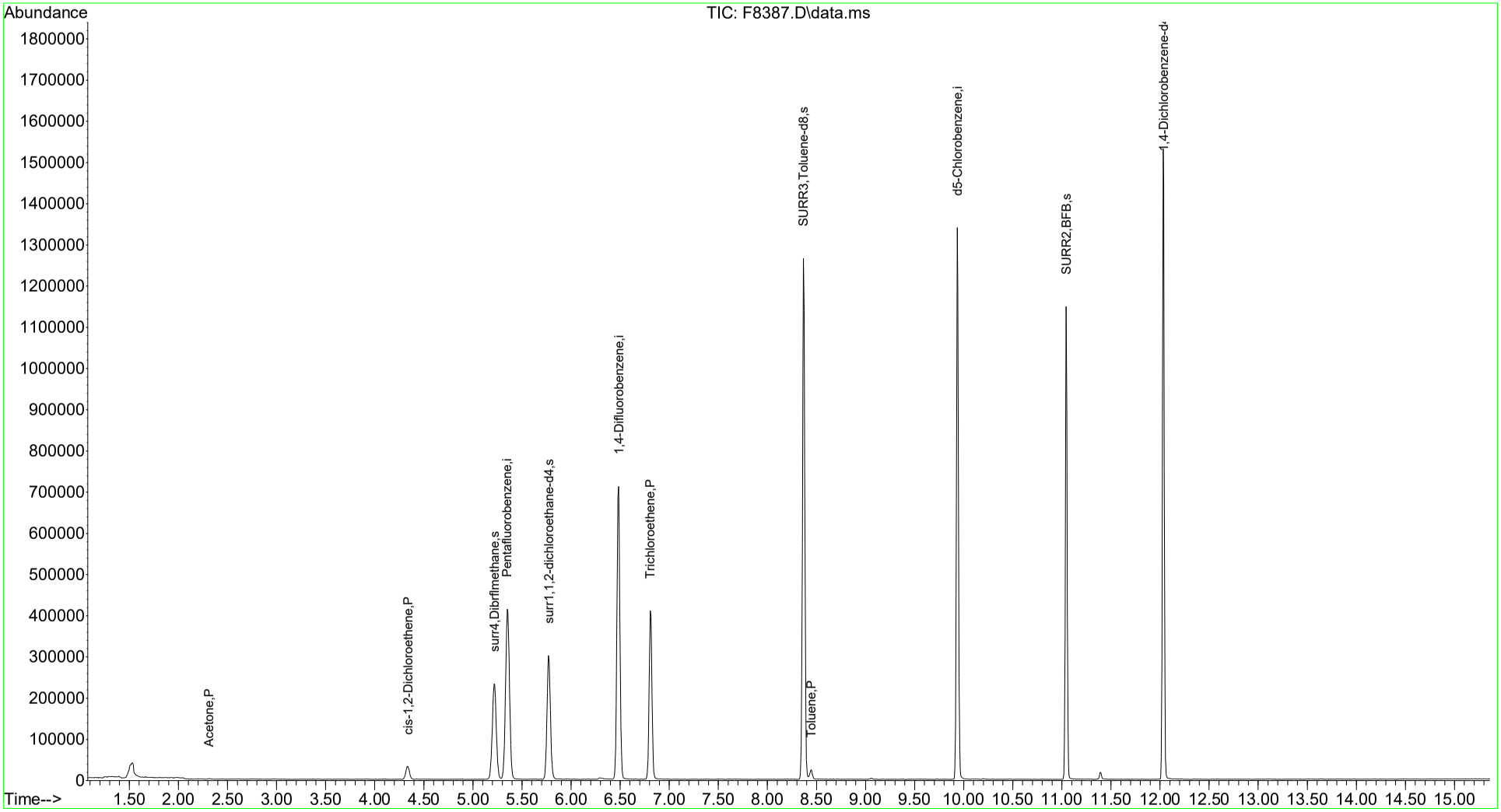
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.350	168	397317	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.484	114	629553	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.934	117	588263	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	12.038	152	298422	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.216	113	191760	47.51	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 95.02%			
48) surr1,1,2-dichloroetha...	5.771	65	261330	49.34	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 98.68%			
65) SURR3,Toluene-d8	8.368	98	770744	46.95	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 93.90%			
70) SURR2,BFB	11.044	95	269784	43.27	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 86.54%			
Target Compounds						Qvalue
4) Chloromethane	1.241	50	367	Below Cal		89
16) Acetone	2.314	43	1754	0.744	ug/L	95
34) cis-1,2-Dichloroethene	4.338	96	17996	4.447	ug/L	94
54) Trichloroethene	6.807	130	142526	37.776	ug/L	99
66) Toluene	8.447	91	14485	0.899	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

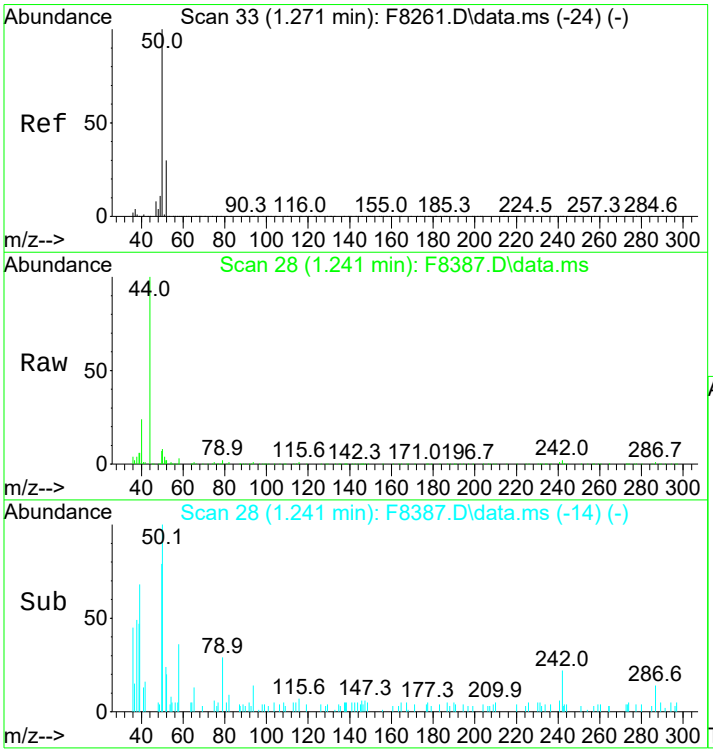
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8387.D
Acq On : 23 Feb 2024 07:47 pm
Operator : F.NAEGLER
Sample : R2401280-009
Misc : CEC 25499 T4
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Feb 25 12:23:56 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



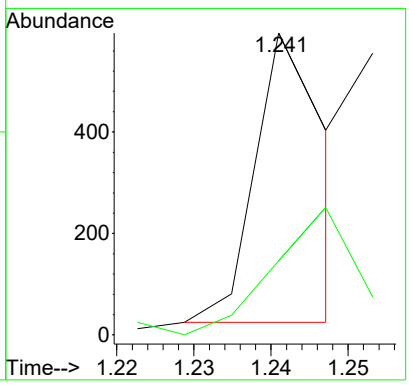
1st FJ 02/26/24
2nd AM 02/27/24

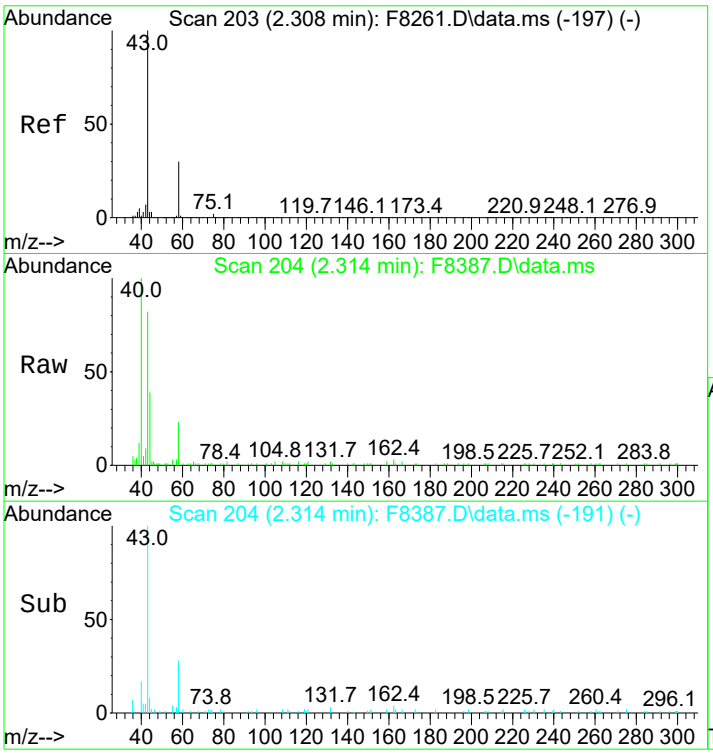


#4
Chloromethane
Concen: Below Cal
RT: 1.241 min Scan# 28
Delta R.T. -0.030 min
Lab File: F8387.D
Acq: 23 Feb 2024 07:47 pm

Tgt Ion: 50 Resp: 367

Ion	Ratio	Lower	Upper
50	100		
52	24.5	10.3	50.3

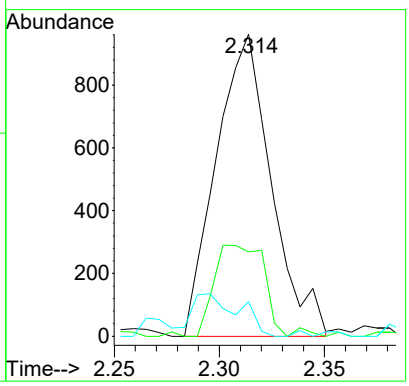


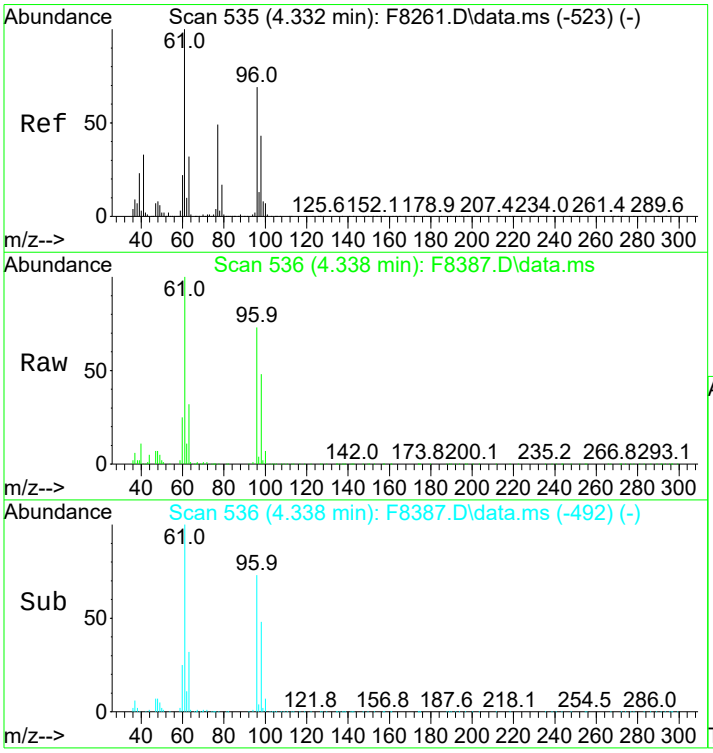


#16
Acetone
Concen: 0.74 ug/L
RT: 2.314 min Scan# 204
Delta R.T. 0.006 min
Lab File: F8387.D
Acq: 23 Feb 2024 07:47 pm

Tgt Ion: 43 Resp: 1754

Ion	Ratio	Lower	Upper
43	100		
58	28.0	10.0	50.0
42	11.5	0.0	27.2

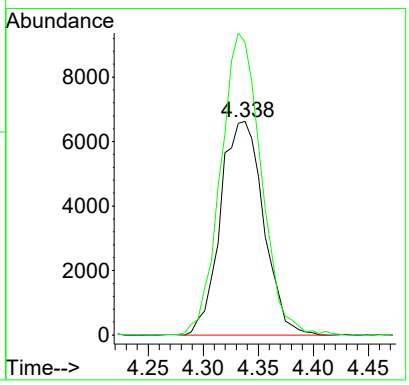


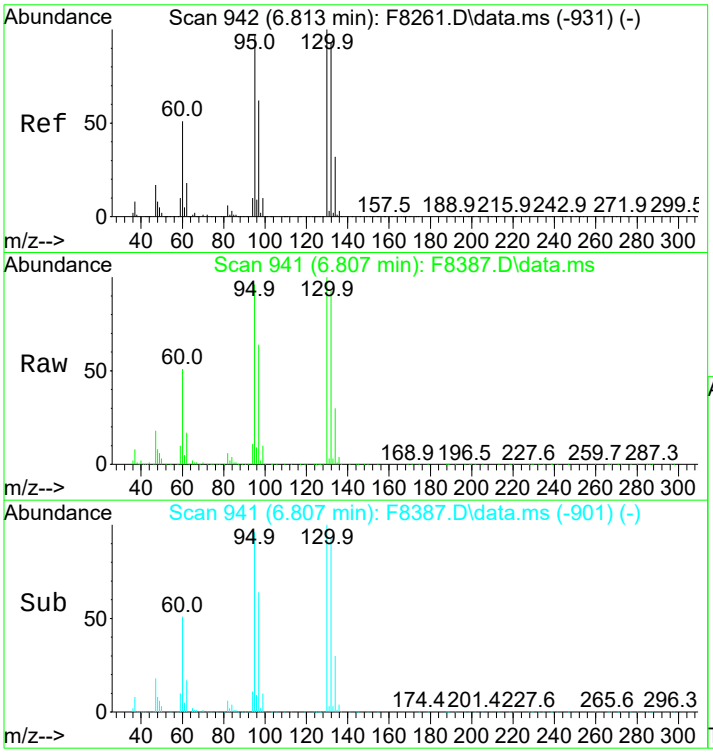


#34
cis-1,2-Dichloroethene
Concen: 4.45 ug/L
RT: 4.338 min Scan# 536
Delta R.T. 0.006 min
Lab File: F8387.D
Acq: 23 Feb 2024 07:47 pm

Tgt Ion: 96 Resp: 17996

Ion	Ratio	Lower	Upper
96	100		
61	137.1	124.5	164.5

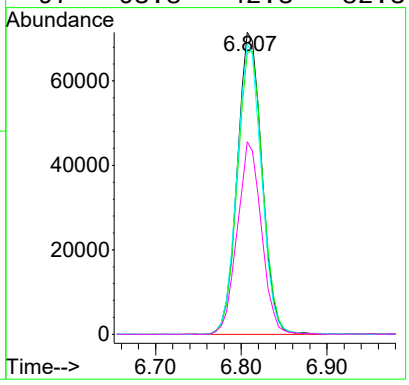


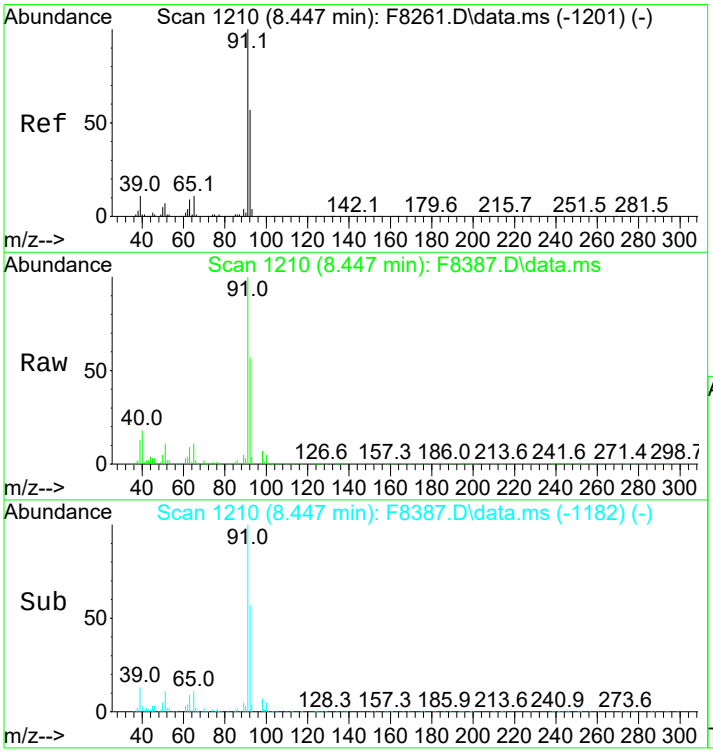


#54
Trichloroethene
Concen: 37.78 ug/L
RT: 6.807 min Scan# 941
Delta R.T. -0.006 min
Lab File: F8387.D
Acq: 23 Feb 2024 07:47 pm

Tgt Ion:130 Resp: 142526

Ion	Ratio	Lower	Upper
130	100		
132	93.4	73.2	113.2
95	96.2	77.2	117.2
97	63.8	42.3	82.3

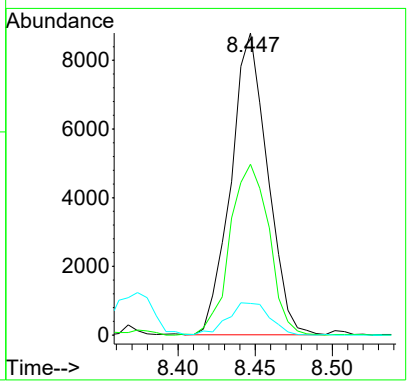




#66
Toluene
Concen: 0.90 ug/L
RT: 8.447 min Scan# 1210
Delta R.T. 0.000 min
Lab File: F8387.D
Acq: 23 Feb 2024 07:47 pm

Tgt Ion: 91 Resp: 14485

Ion	Ratio	Lower	Upper
91	100		
92	56.5	37.4	77.4
65	10.5	0.0	31.5



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8388.D
Acq On : 23 Feb 2024 08:09 pm
Operator : F.NAEGLER
Sample : R2401280-010
Misc : CEC 25499 T4
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Feb 25 12:24:13 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

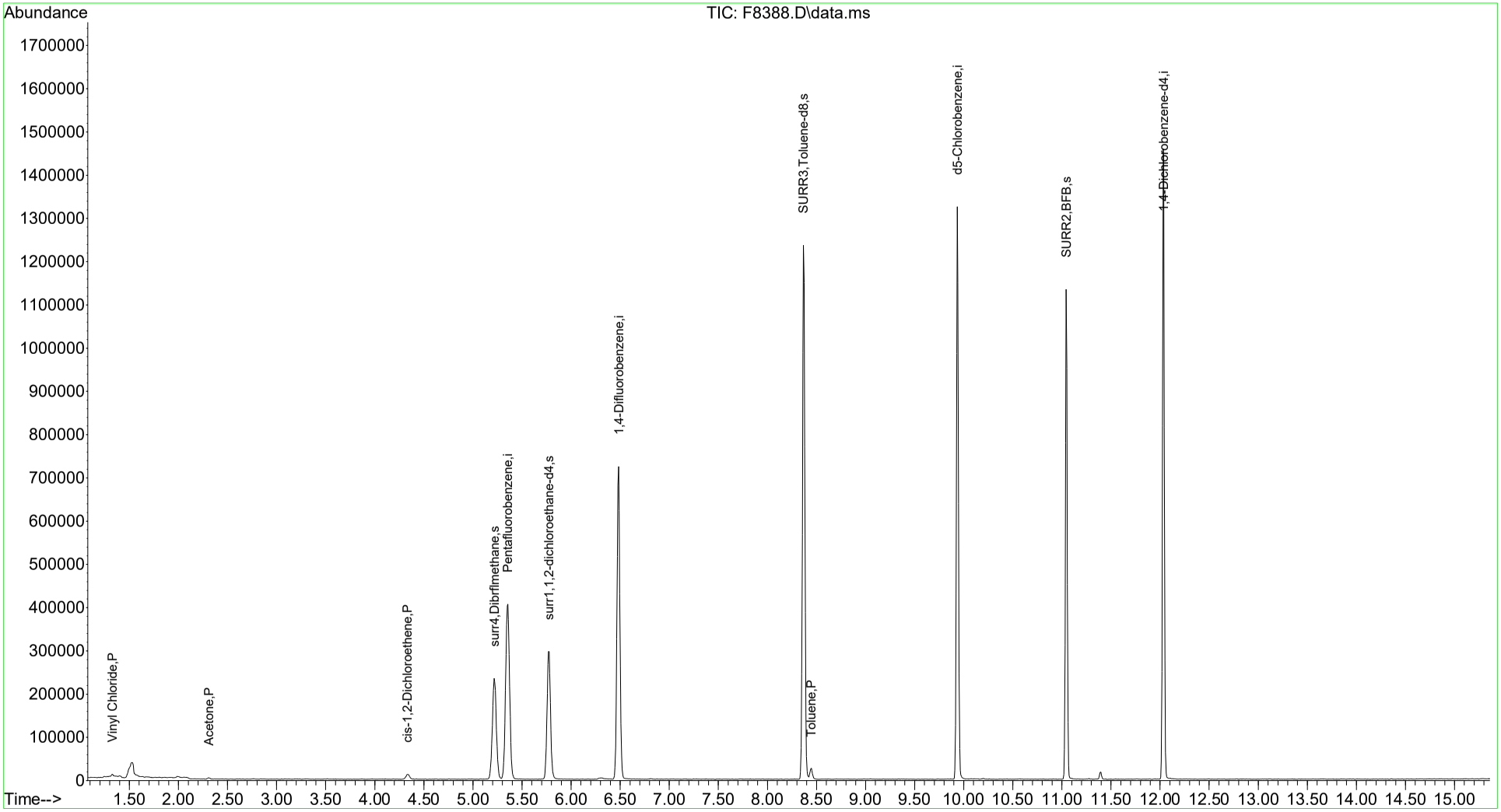
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.356	168	390877	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.484	114	621263	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.934	117	579157	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	12.038	152	287630	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.216	113	192431	48.31	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 96.62%			
48) surr1,1,2-dichloroetha...	5.777	65	261201	49.97	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 99.94%			
65) SURR3,Toluene-d8	8.368	98	767959	47.41	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 94.82%			
70) SURR2,BFB	11.044	95	269753	43.84	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 87.68%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.326	62	2884	0.608	ug/L	97
16) Acetone	2.308	43	2622	1.131	ug/L	89
34) cis-1,2-Dichloroethene	4.332	96	6753	1.696	ug/L #	65
66) Toluene	8.441	91	15945	1.002	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

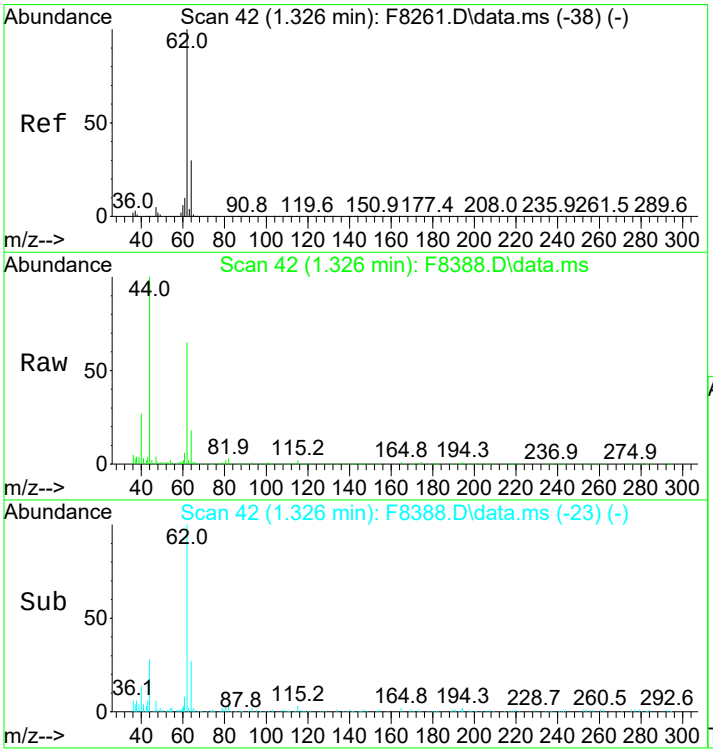
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8388.D
Acq On : 23 Feb 2024 08:09 pm
Operator : F.NAEGLER
Sample : R2401280-010
Misc : CEC 25499 T4
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Feb 25 12:24:13 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



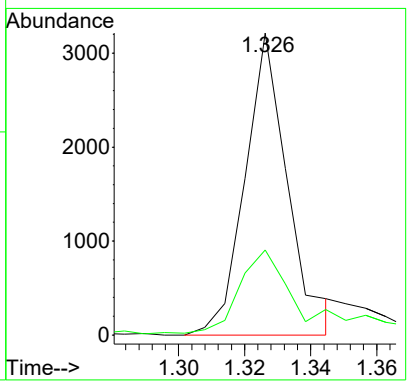
1st FJ 02/26/24
2nd AM 02/27/24

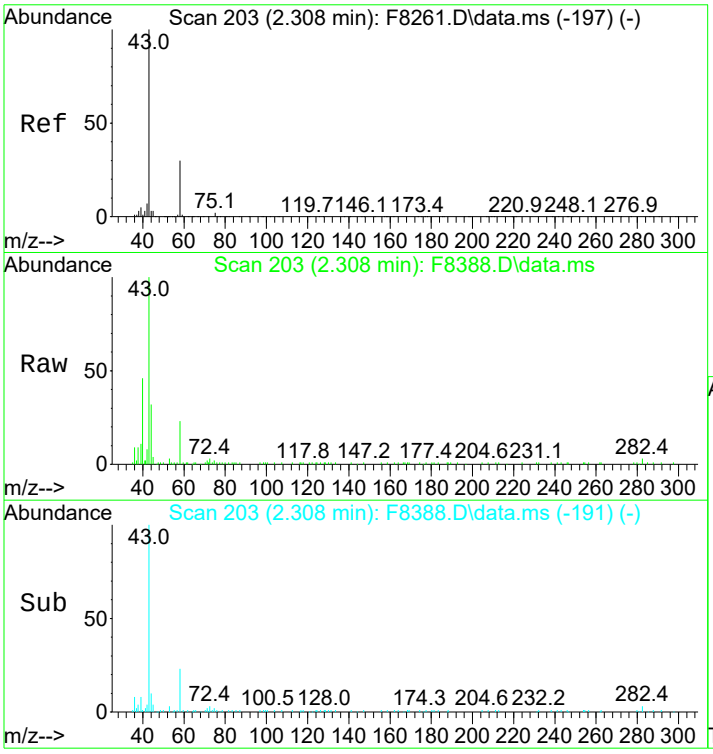


#5
Vinyl Chloride
Concen: 0.61 ug/L
RT: 1.326 min Scan# 42
Delta R.T. 0.000 min
Lab File: F8388.D
Acq: 23 Feb 2024 08:09 pm

Tgt Ion: 62 Resp: 2884

Ion	Ratio	Lower	Upper
62	100		
64	28.2	9.6	49.6

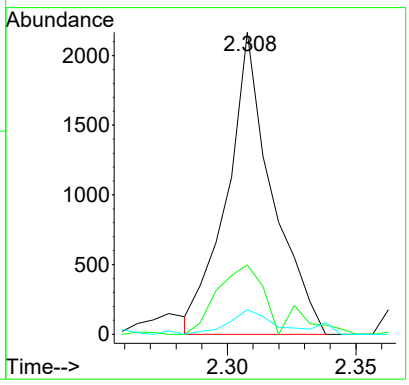


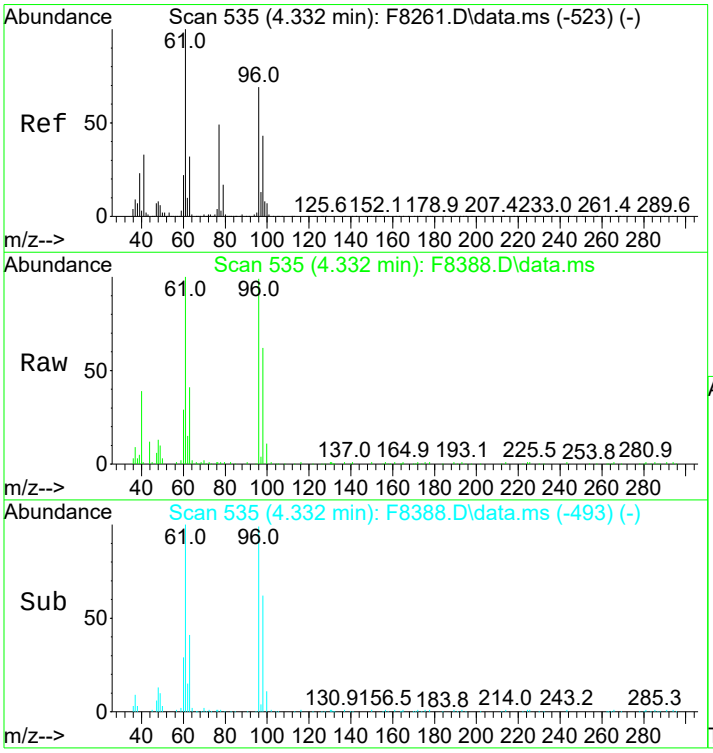


#16
Acetone
Concen: 1.13 ug/L
RT: 2.308 min Scan# 203
Delta R.T. 0.000 min
Lab File: F8388.D
Acq: 23 Feb 2024 08:09 pm

Tgt Ion: 43 Resp: 2622

Ion	Ratio	Lower	Upper
43	100		
58	22.9	10.0	50.0
42	8.2	0.0	27.2

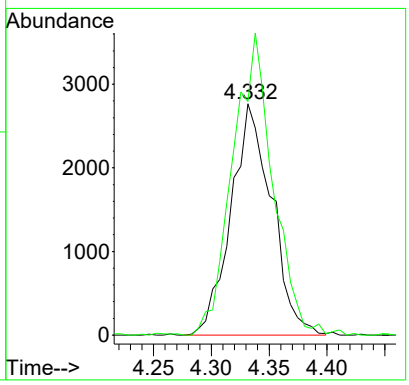


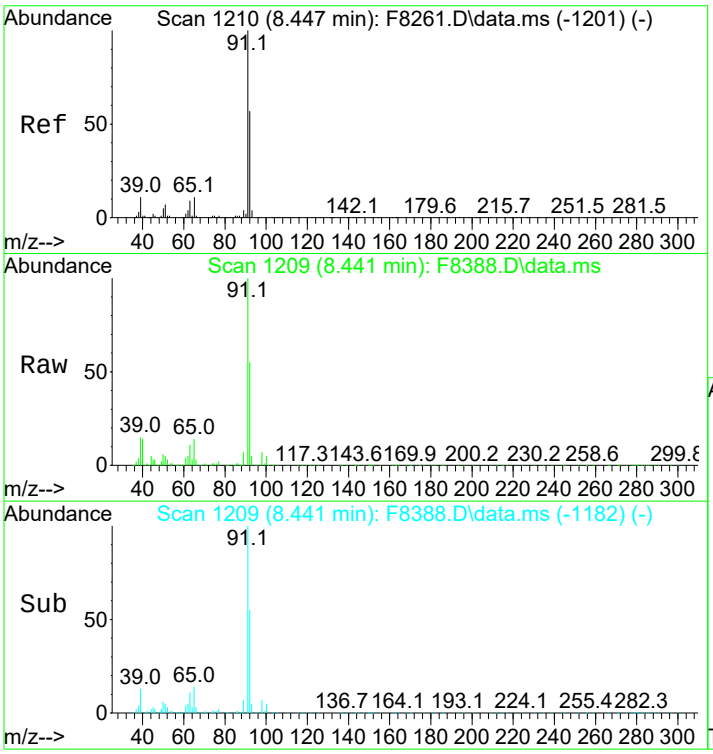


#34
cis-1,2-Dichloroethene
Concen: 1.70 ug/L
RT: 4.332 min Scan# 535
Delta R.T. 0.000 min
Lab File: F8388.D
Acq: 23 Feb 2024 08:09 pm

Tgt Ion: 96 Resp: 6753

Ion	Ratio	Lower	Upper
96	100		
61	100.9	124.5	164.5#

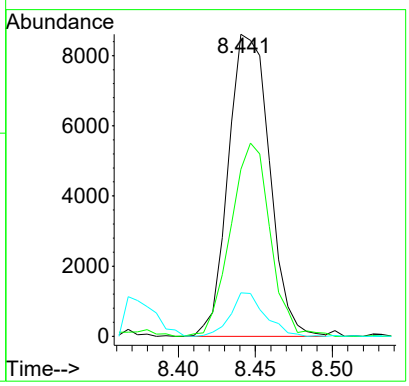




#66
Toluene
Concen: 1.00 ug/L
RT: 8.441 min Scan# 1209
Delta R.T. -0.006 min
Lab File: F8388.D
Acq: 23 Feb 2024 08:09 pm

Tgt Ion: 91 Resp: 15945

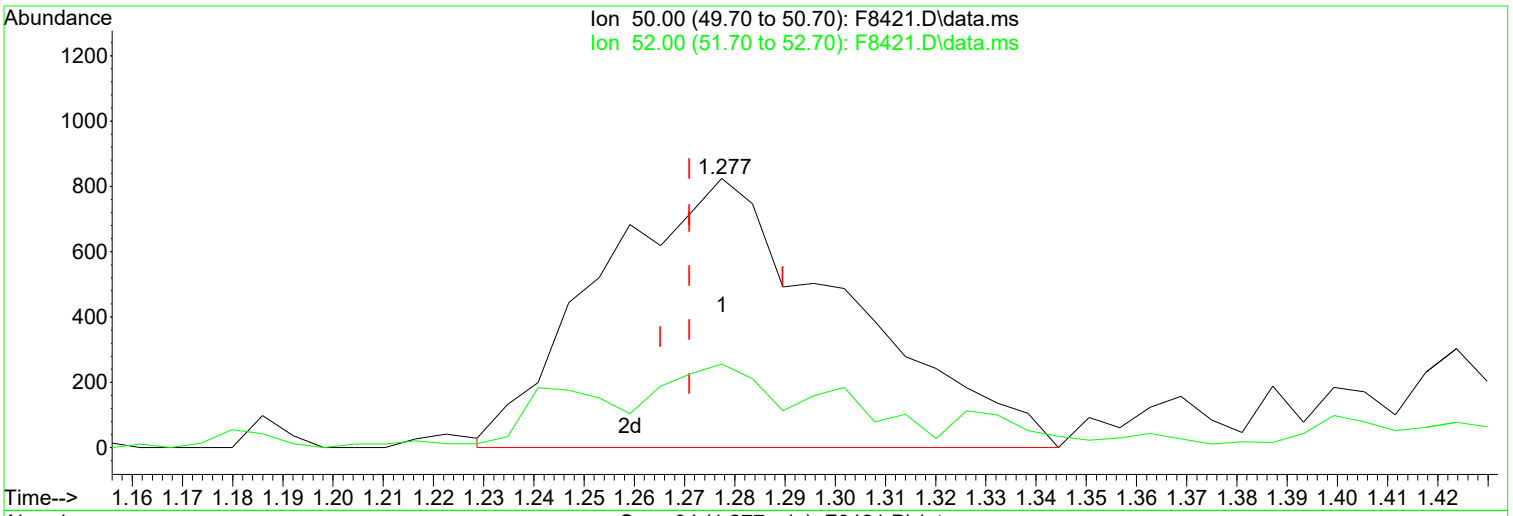
Ion	Ratio	Lower	Upper
91	100		
92	55.3	37.4	77.4
65	14.4	0.0	31.5

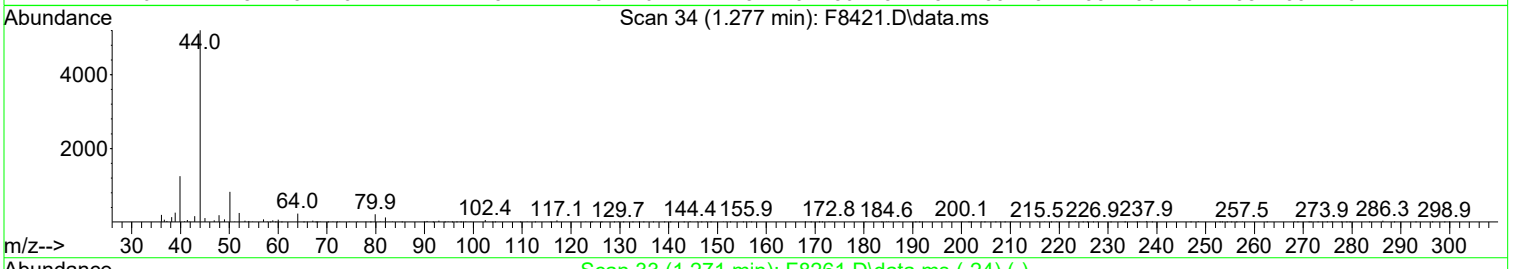


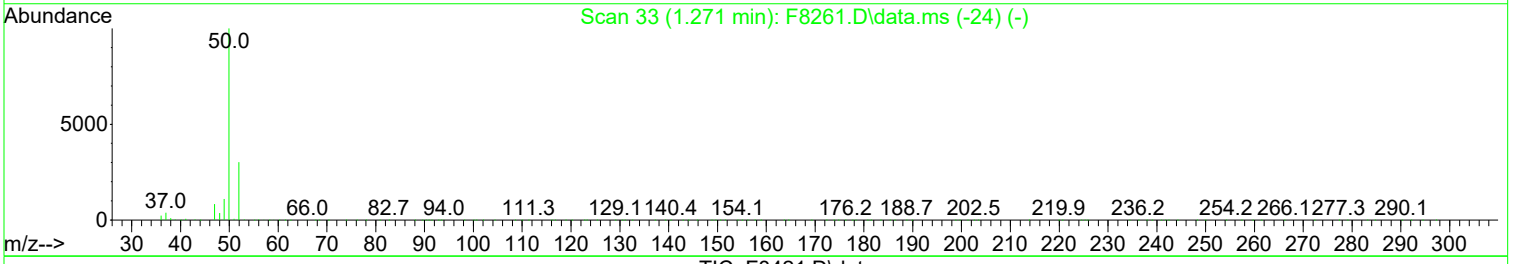
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8421.D
Acq On : 25 Feb 2024 10:57 pm
Operator : F.NAEGLER
Sample : R2401280-011
Misc : CEC 25499 T4
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Feb 26 09:05:40 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8421.D\data.ms

(4) Chloromethane (P)

1.277min (+ 0.006) 0.40 ug/L m

response 2819

Ion	Exp%	Act%
50.00	100.00	100.00
52.00	30.30	31.07
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

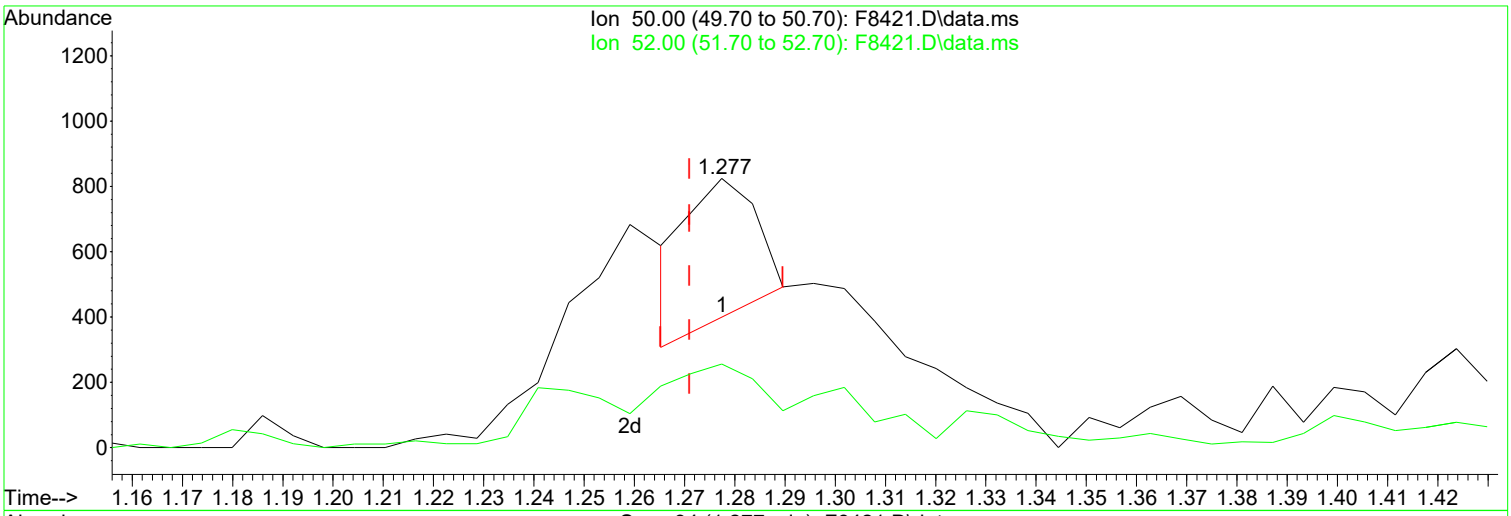
Poor integration.

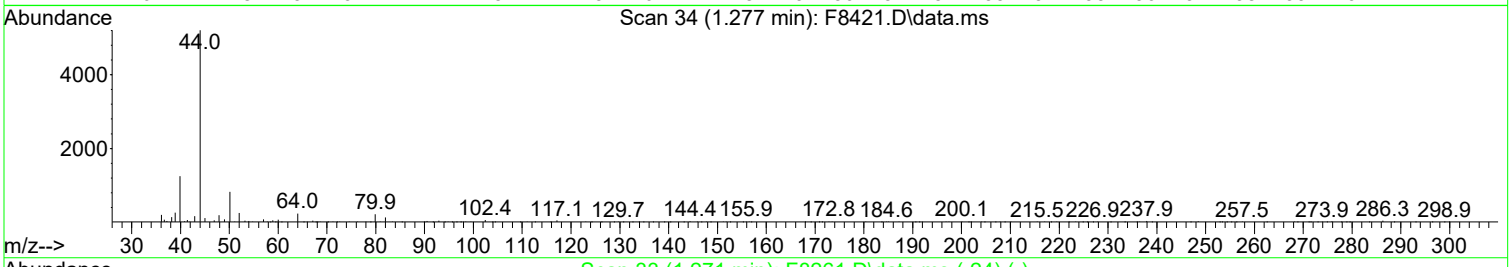
02/27/24

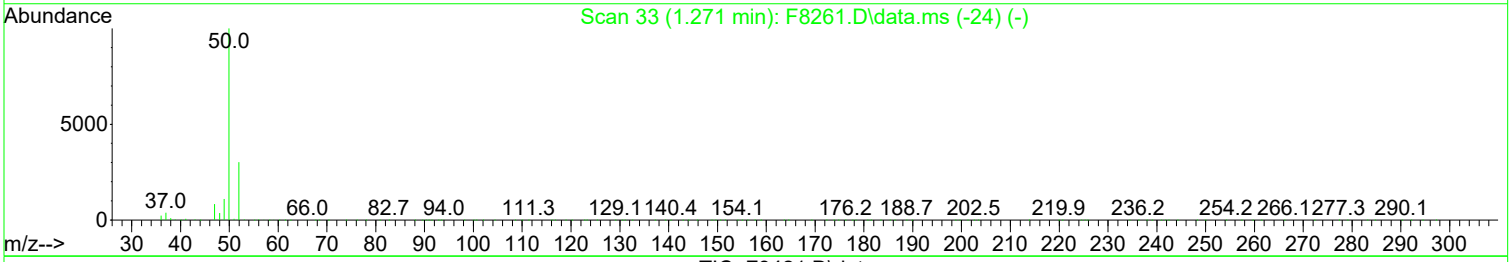
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8421.D
Acq On : 25 Feb 2024 10:57 pm
Operator : F.NAEGLER
Sample : R2401280-011
Misc : CEC 25499 T4
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Feb 26 09:05:40 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8421.D\data.ms

(4) Chloromethane (P)

1.277min (+ 0.006) -1.00 ug/L

response 433

Ion	Exp%	Act%
50.00	100.00	100.00
52.00	30.30	31.07
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

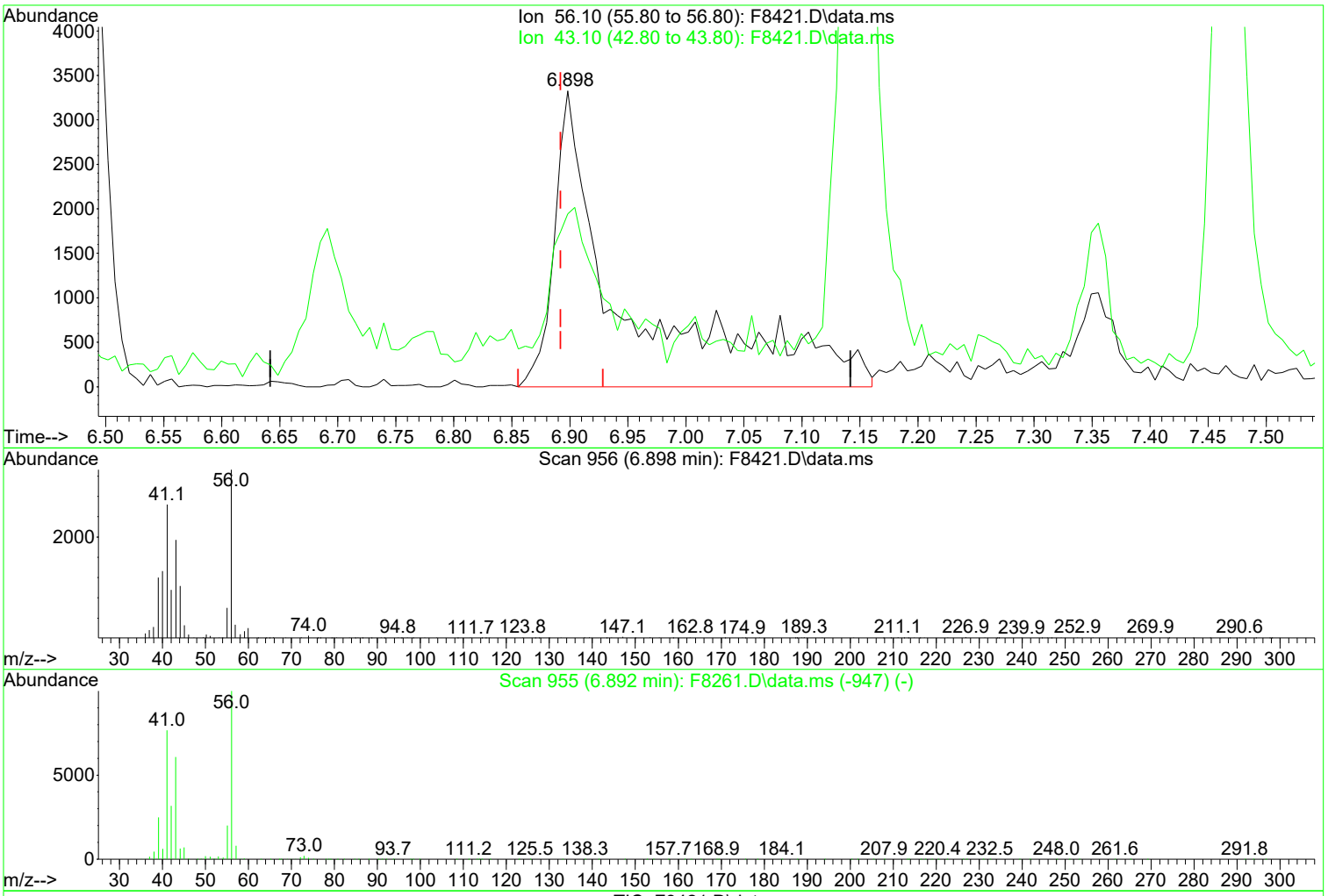
Before

02/27/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8421.D
Acq On : 25 Feb 2024 10:57 pm
Operator : F.NAEGLER
Sample : R2401280-011
Misc : CEC 25499 T4
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Feb 26 09:05:40 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



TIC: F8421.D\data.ms

(53) 1-Butanol

6.898min (+ 0.006) 116.04 ug/L m

response 14038

Ion	Exp%	Act%
56.10	100.00	100.00
43.10	60.90	58.40
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

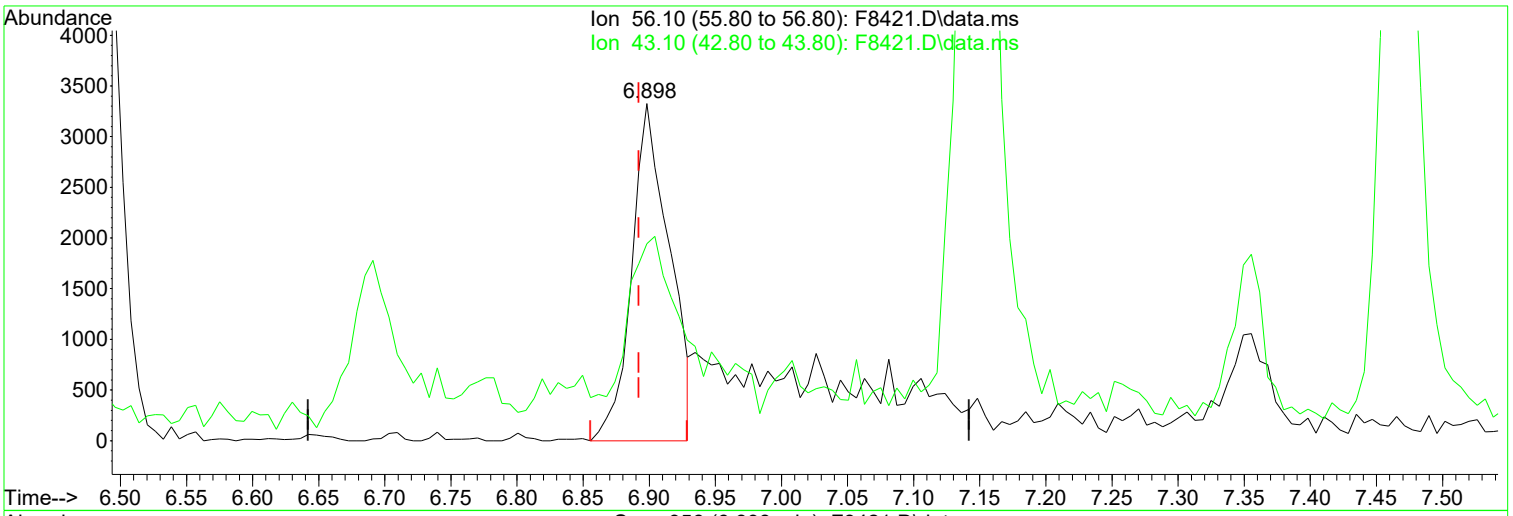
Poor integration.

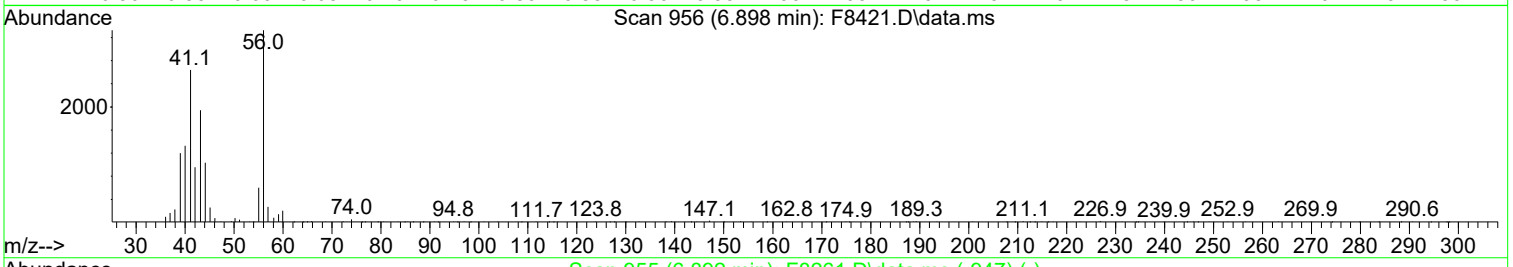
02/27/24

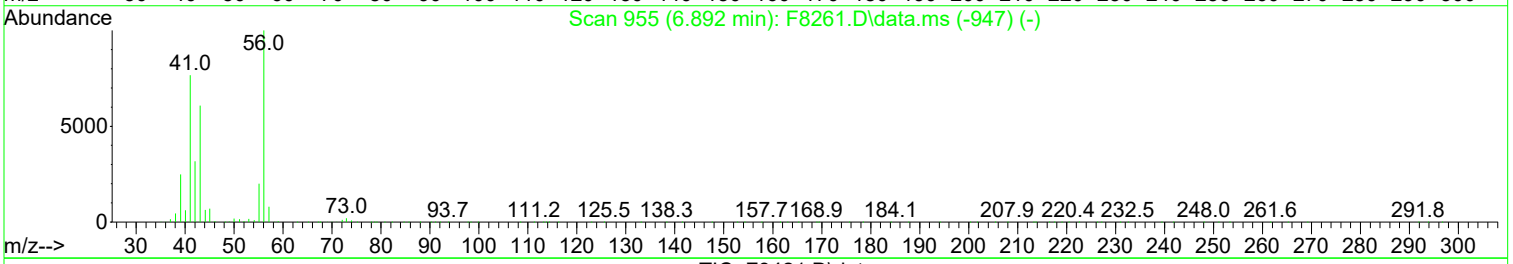
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8421.D
Acq On : 25 Feb 2024 10:57 pm
Operator : F.NAEGLER
Sample : R2401280-011
Misc : CEC 25499 T4
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Feb 26 09:05:40 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8421.D\data.ms

(53) 1-Butanol

6.898min (+ 0.006) 65.81 ug/L

response 6581

Ion	Exp%	Act%
56.10	100.00	100.00
43.10	60.90	58.40
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

02/27/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8421.D
Acq On : 25 Feb 2024 10:57 pm
Operator : F.NAEGLER
Sample : R2401280-011
Misc : CEC 25499 T4
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Feb 26 09:05:40 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.350	168	423289	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.484	114	660688	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.934	117	611525	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	12.038	152	312224	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.216	113	200592	47.36	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 94.72%			
48) surr1,1,2-dichloroetha...	5.770	65	269344	48.46	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 96.92%			
65) SURR3,Toluene-d8	8.367	98	803184	46.62	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 93.24%			
70) SURR2,BFB	11.044	95	285867	43.69	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 87.38%			
Target Compounds						Qvalue
4) Chloromethane	1.277	50	2819m	0.401	ug/L	
5) Vinyl Chloride	1.326	62	6622	1.289	ug/L	96
16) Acetone	2.302	43	440774	175.550	ug/L	95
17) 2-Propanol	2.442	45	99803	247.256	ug/L	88
19) Carbon Disulfide	2.430	76	4445	0.477	ug/L	94
22) Methyl Acetate	2.606	43	72434	11.699	ug/L	99
24) TBA	2.850	59	31039	44.181	ug/L	90
27) trans-1,2-Dichloroethene	2.978	96	779	0.214	ug/L	82
34) cis-1,2-Dichloroethene	4.332	96	24345	5.647	ug/L #	83
35) 2-Butanone	4.411	43	43658	12.787	ug/L	100
49) Benzene	5.831	78	9757	0.661	ug/L	82
51) Iso-Butyl Alcohol	5.898	43	36817	128.867	ug/L	98
53) 1-Butanol	6.898	56	14038m	116.036	ug/L	
54) Trichloroethene	6.813	130	2802	0.708	ug/L	93
66) Toluene	8.447	91	4816	0.285	ug/L #	70
73) 2-Hexanone	9.264	43	1228	0.259	ug/L #	70

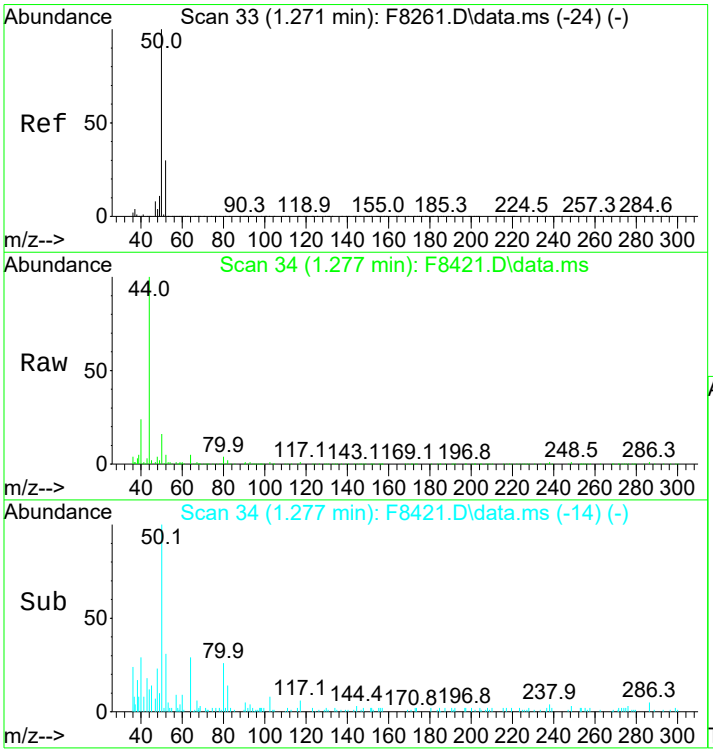
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8421.D
Acq On : 25 Feb 2024 10:57 pm
Operator : F.NAEGLER
Sample : R2401280-011
Misc : CEC 25499 T4
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Feb 26 09:05:40 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

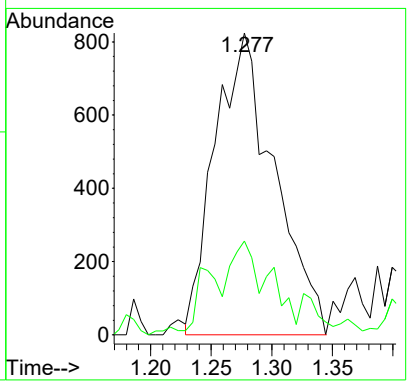
1st FJ 02/27/24
2nd AM 02/28/24

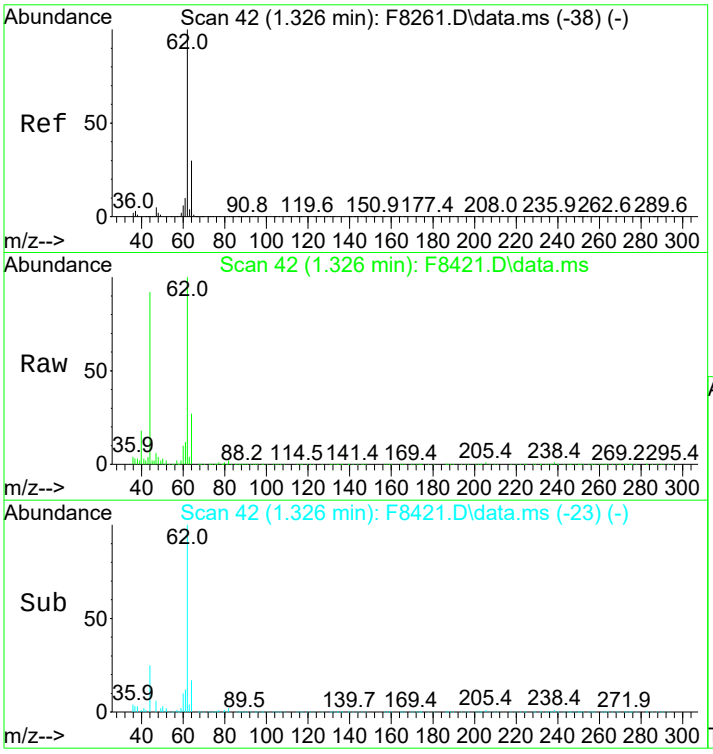


#4
Chloromethane
Concen: 0.40 ug/L m
RT: 1.277 min Scan# 34
Delta R.T. 0.006 min
Lab File: F8421.D
Acq: 25 Feb 2024 10:57 pm

Tgt Ion: 50 Resp: 2819

Ion	Ratio	Lower	Upper
50	100		
52	31.1	10.3	50.3

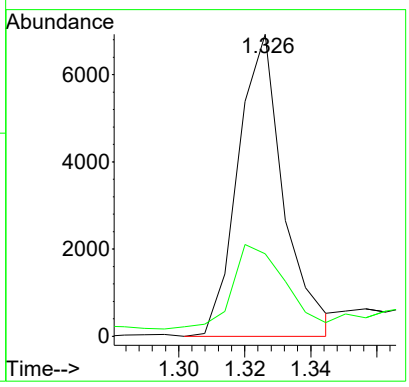


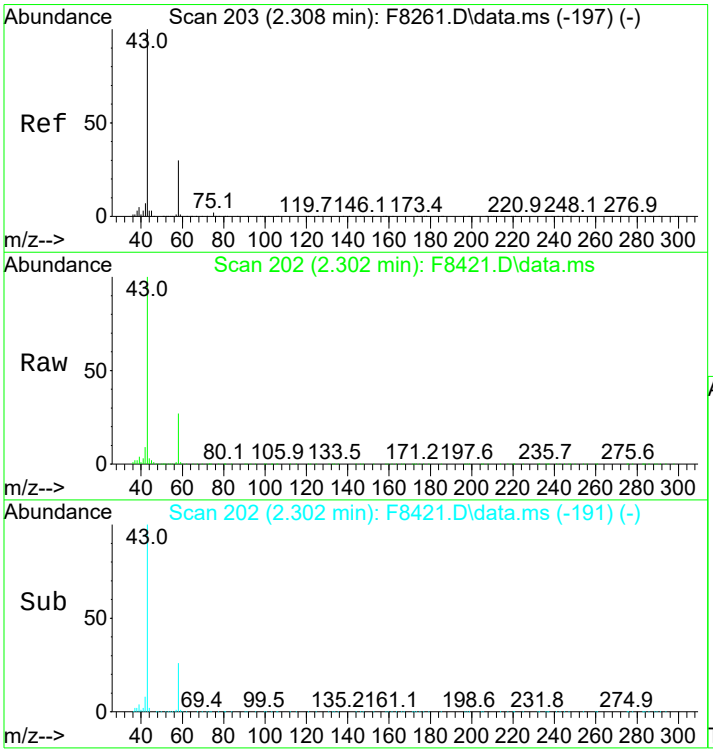


#5
Vinyl Chloride
Concen: 1.29 ug/L
RT: 1.326 min Scan# 42
Delta R.T. 0.000 min
Lab File: F8421.D
Acq: 25 Feb 2024 10:57 pm

Tgt Ion: 62 Resp: 6622

Ion	Ratio	Lower	Upper
62	100		
64	27.3	9.6	49.6

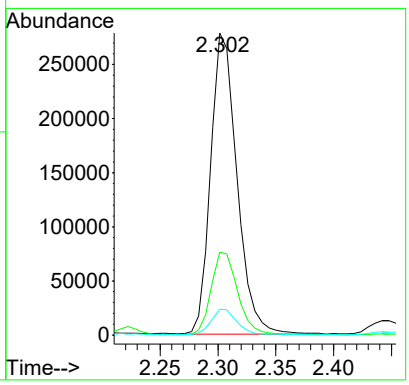


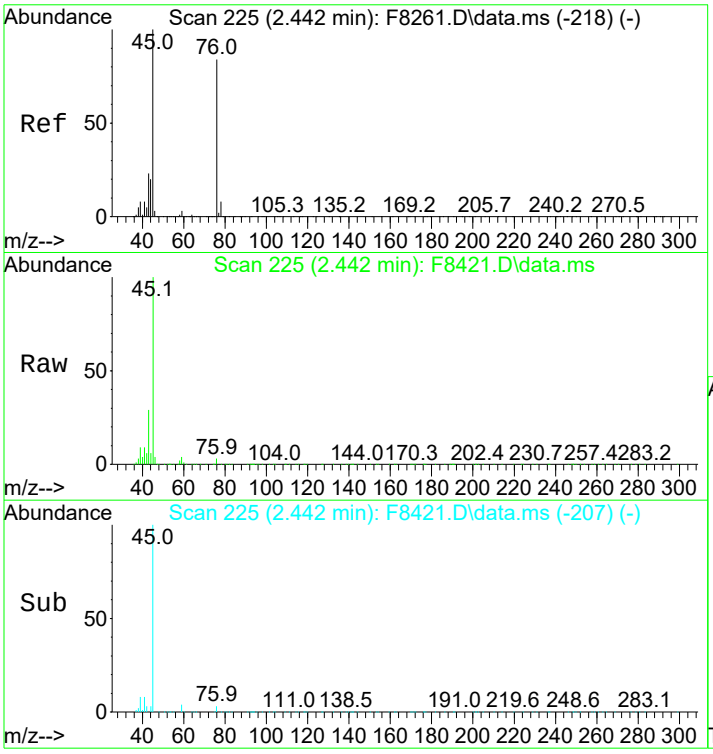


#16
Acetone
Concen: 175.55 ug/L
RT: 2.302 min Scan# 202
Delta R.T. -0.006 min
Lab File: F8421.D
Acq: 25 Feb 2024 10:57 pm

Tgt Ion: 43 Resp: 440774

Ion	Ratio	Lower	Upper
43	100		
58	27.4	10.0	50.0
42	8.6	0.0	27.2

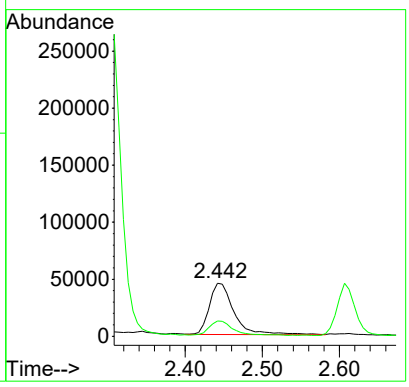


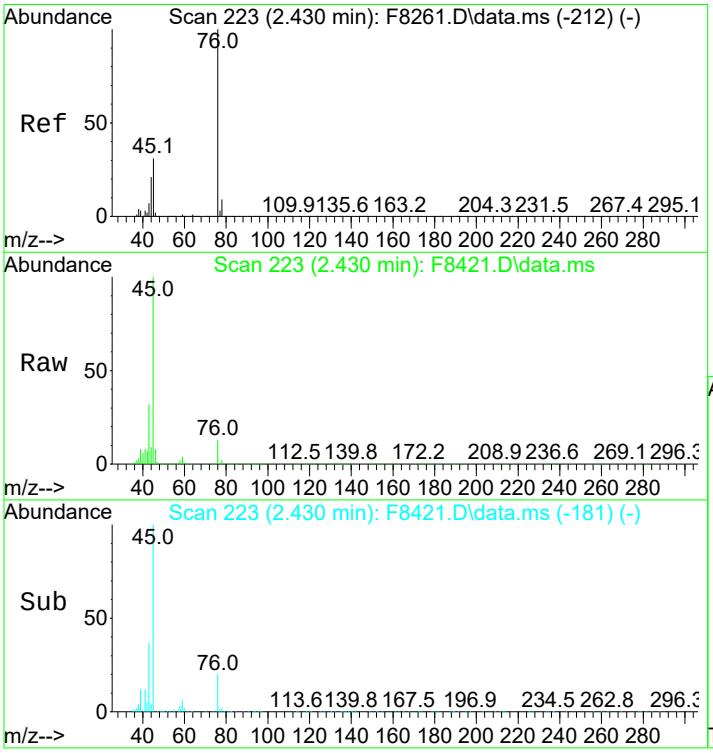


#17
2-Propanol
Concen: 247.26 ug/L
RT: 2.442 min Scan# 225
Delta R.T. 0.000 min
Lab File: F8421.D
Acq: 25 Feb 2024 10:57 pm

Tgt Ion: 45 Resp: 99803

Ion	Ratio	Lower	Upper
45	100		
43	28.7	3.0	43.0

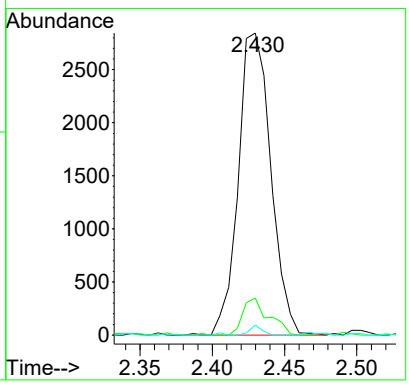


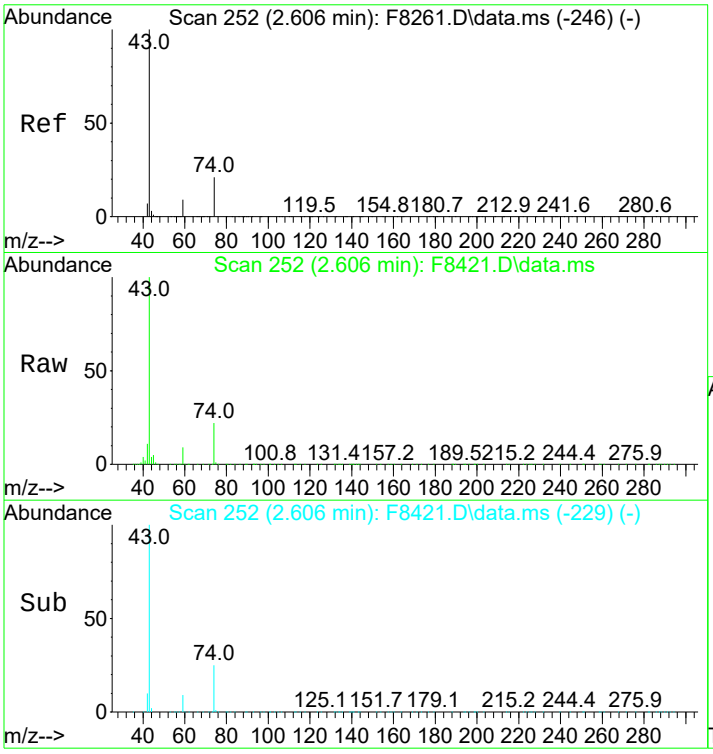


#19
Carbon Disulfide
Concen: 0.48 ug/L
RT: 2.430 min Scan# 223
Delta R.T. 0.000 min
Lab File: F8421.D
Acq: 25 Feb 2024 10:57 pm

Tgt Ion: 76 Resp: 4445

Ion	Ratio	Lower	Upper
76	100		
78	12.3	0.0	29.4
77	3.2	0.0	22.9

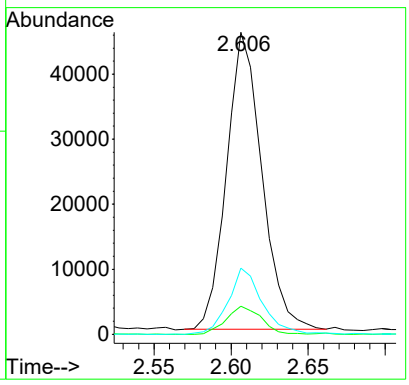


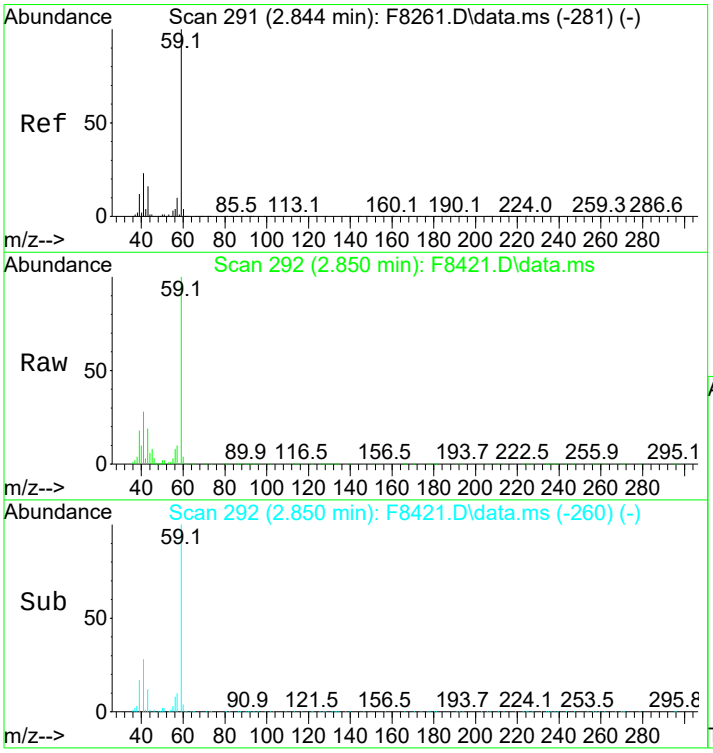


#22
Methyl Acetate
Concen: 11.70 ug/L
RT: 2.606 min Scan# 252
Delta R.T. 0.000 min
Lab File: F8421.D
Acq: 25 Feb 2024 10:57 pm

Tgt Ion: 43 Resp: 72434

Ion	Ratio	Lower	Upper
43	100		
59	9.3	0.0	28.7
74	21.9	1.6	41.6

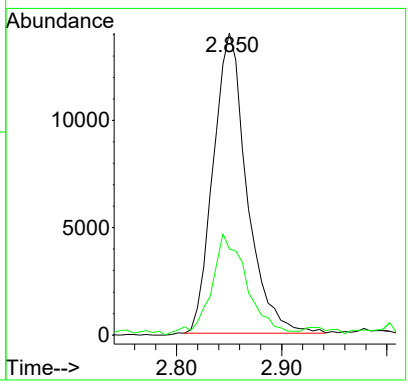


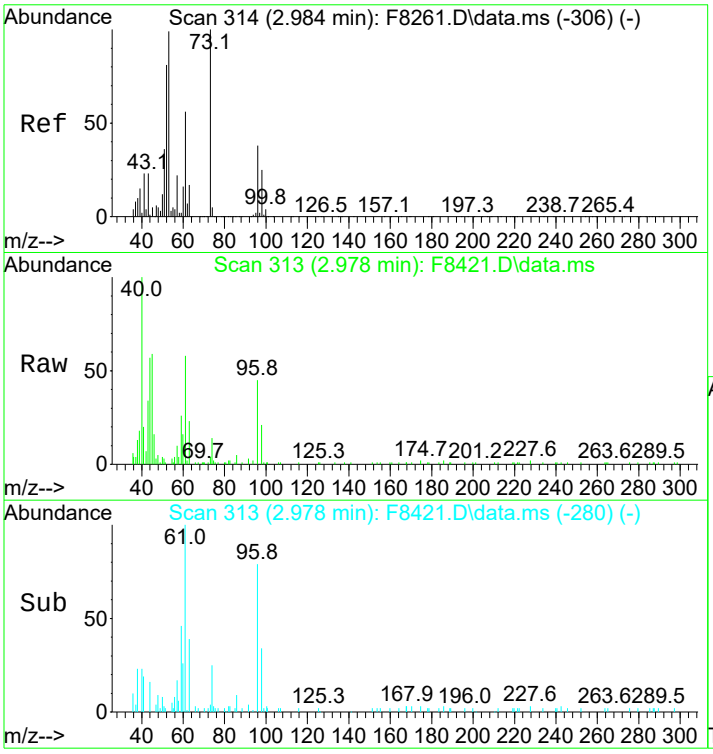


#24
TBA
Concen: 44.18 ug/L
RT: 2.850 min Scan# 292
Delta R.T. 0.006 min
Lab File: F8421.D
Acq: 25 Feb 2024 10:57 pm

Tgt Ion: 59 Resp: 31039

Ion	Ratio	Lower	Upper
59	100		
41	28.4	3.6	43.6

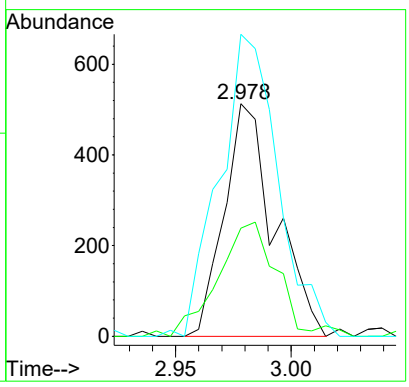


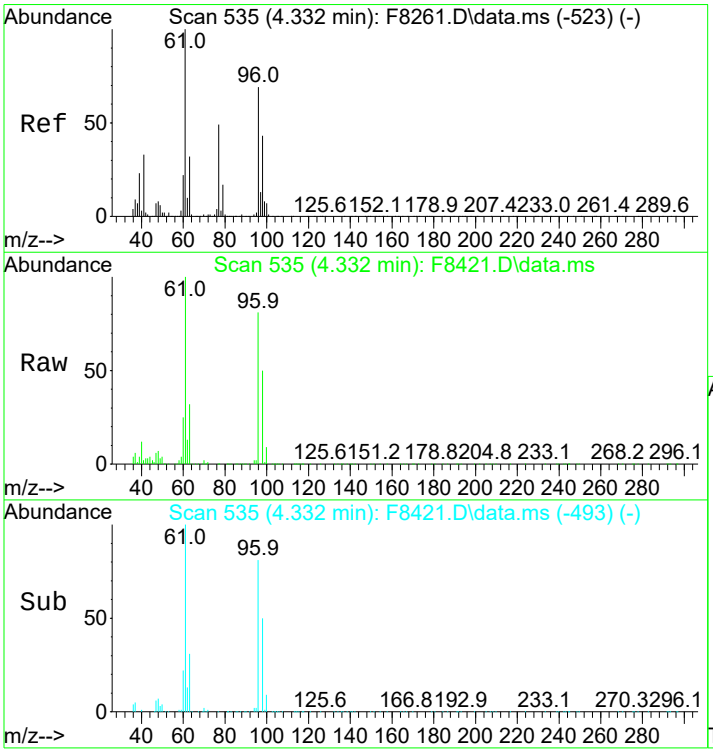


#27
trans-1,2-Dichloroethene
Concen: 0.21 ug/L
RT: 2.978 min Scan# 313
Delta R.T. -0.006 min
Lab File: F8421.D
Acq: 25 Feb 2024 10:57 pm

Tgt Ion: 96 Resp: 779

Ion	Ratio	Lower	Upper
96	100		
98	46.4	45.9	85.9
61	129.8	128.4	168.4

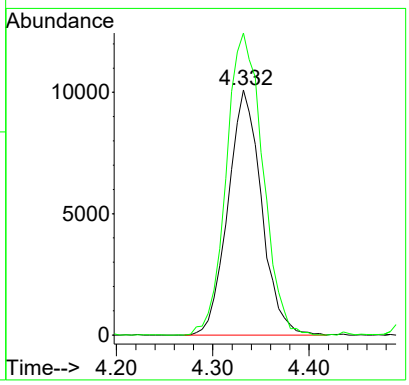


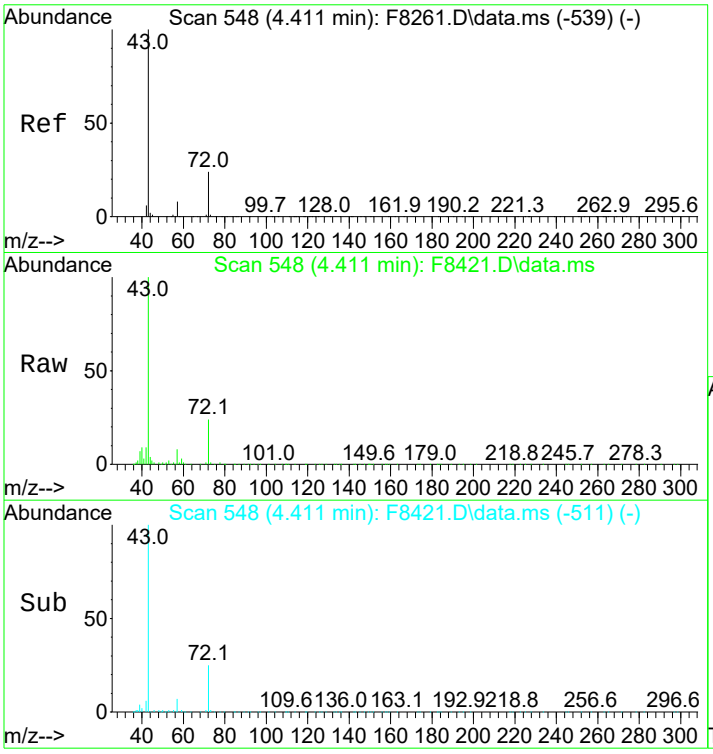


#34
cis-1,2-Dichloroethene
Concen: 5.65 ug/L
RT: 4.332 min Scan# 535
Delta R.T. 0.000 min
Lab File: F8421.D
Acq: 25 Feb 2024 10:57 pm

Tgt Ion: 96 Resp: 24345

Ion	Ratio	Lower	Upper
96	100		
61	123.2	124.5	164.5#

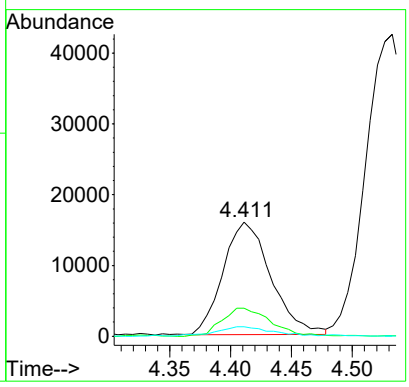


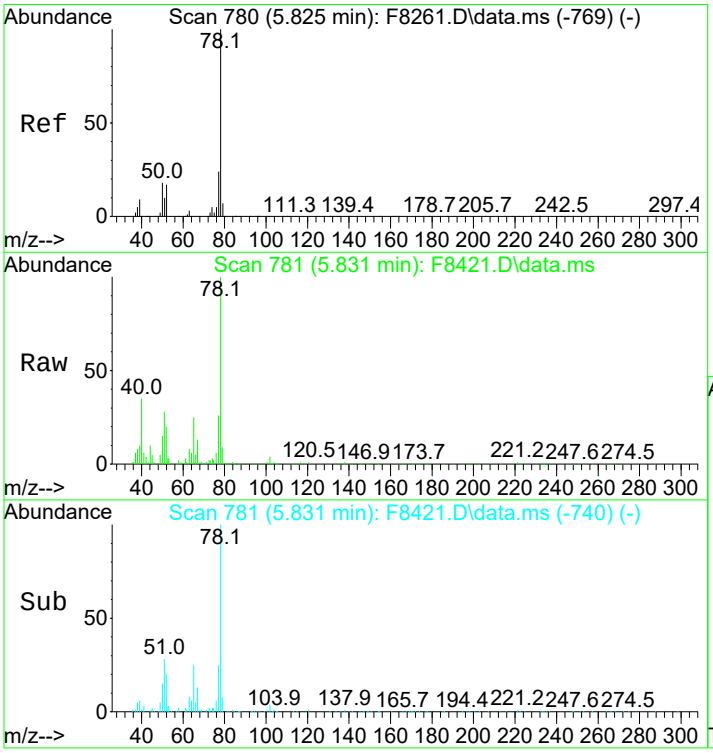


#35
2-Butanone
Concen: 12.79 ug/L
RT: 4.411 min Scan# 548
Delta R.T. 0.000 min
Lab File: F8421.D
Acq: 25 Feb 2024 10:57 pm

Tgt Ion: 43 Resp: 43658

Ion	Ratio	Lower	Upper
43	100		
72	24.5	4.5	44.5
57	8.3	0.0	27.8

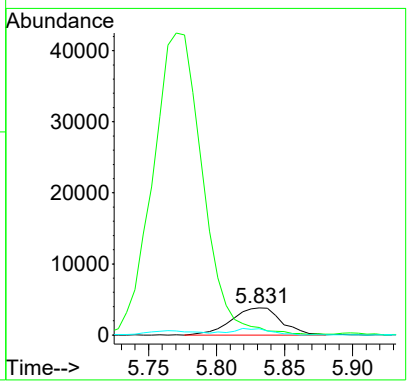


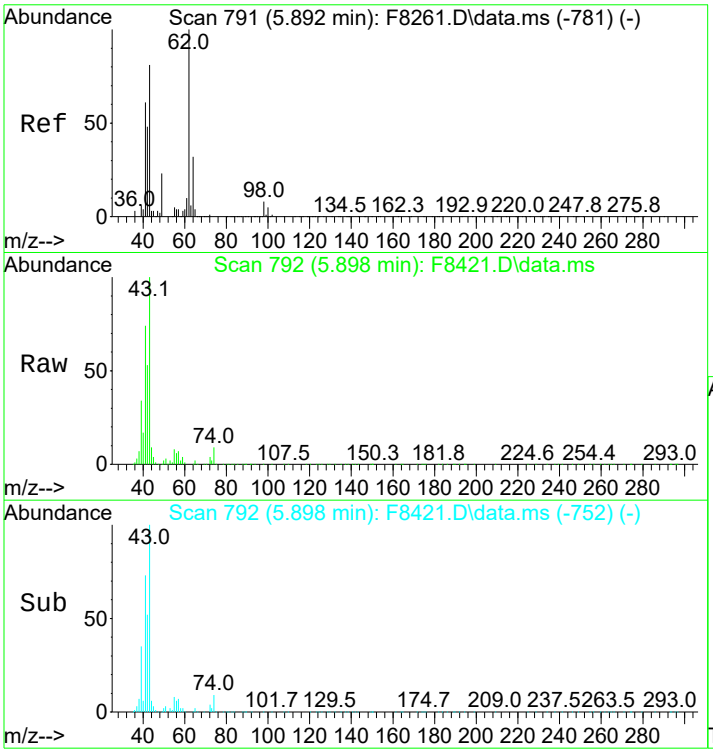


#49
Benzene
Concen: 0.66 ug/L
RT: 5.831 min Scan# 781
Delta R.T. 0.006 min
Lab File: F8421.D
Acq: 25 Feb 2024 10:57 pm

Tgt Ion: 78 Resp: 9757

Ion	Ratio	Lower	Upper
78	100		
51	28.4	0.0	38.9
52	22.9	0.0	36.8

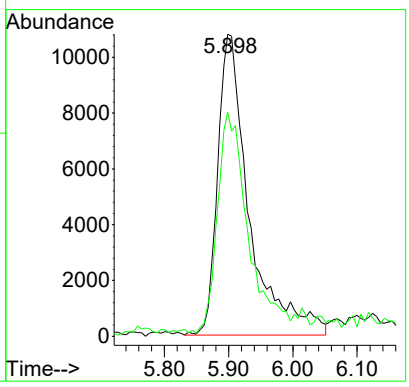


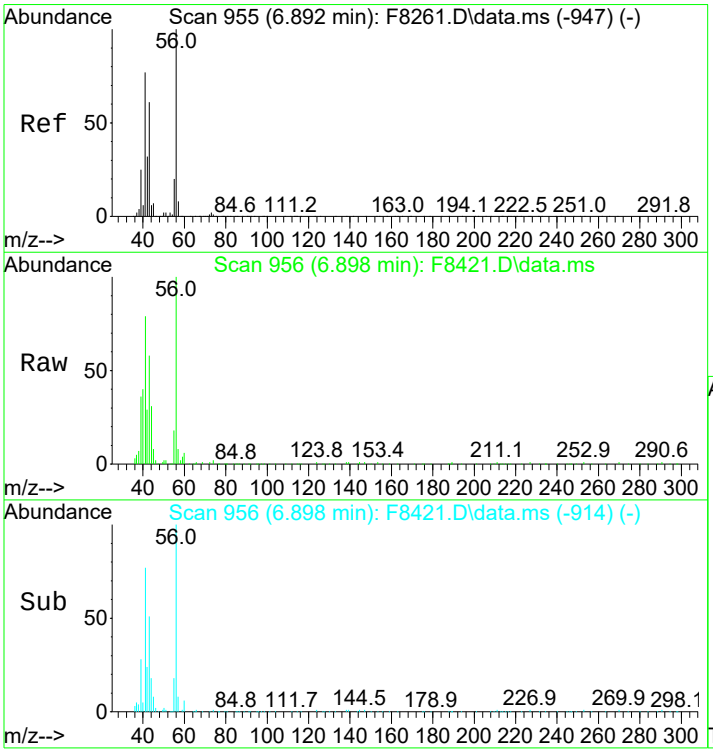


#51
Iso-Butyl Alcohol
Concen: 128.87 ug/L
RT: 5.898 min Scan# 792
Delta R.T. 0.006 min
Lab File: F8421.D
Acq: 25 Feb 2024 10:57 pm

Tgt Ion: 43 Resp: 36817

Ion	Ratio	Lower	Upper
43	100		
41	74.1	55.5	95.5

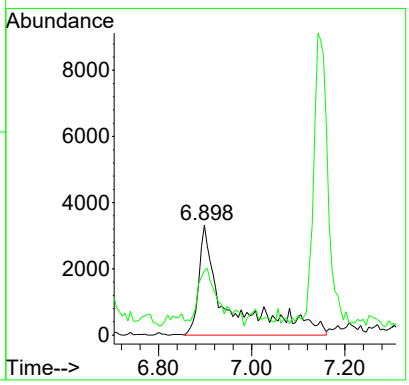


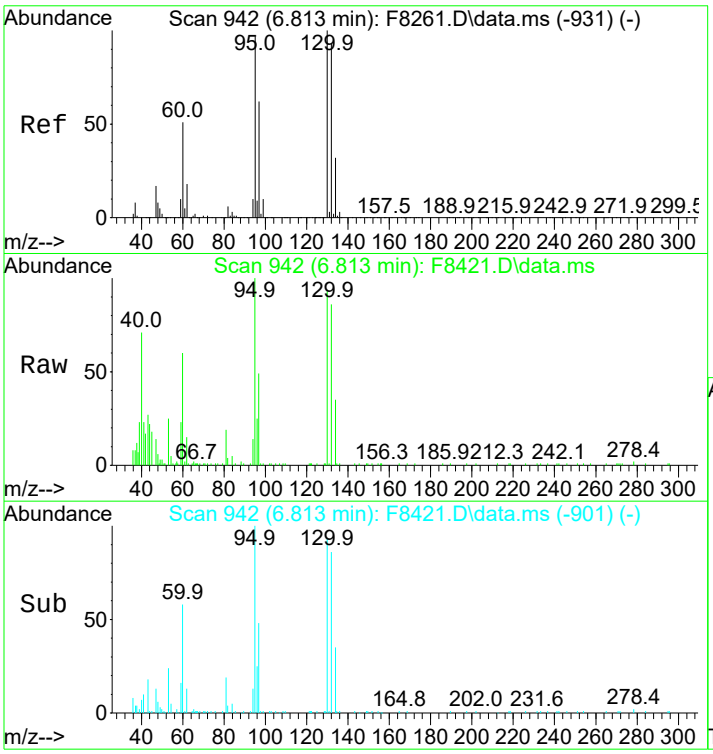


#53
1-Butanol
Concen: 116.04 ug/L m
RT: 6.898 min Scan# 956
Delta R.T. 0.006 min
Lab File: F8421.D
Acq: 25 Feb 2024 10:57 pm

Tgt Ion: 56 Resp: 14038

Ion	Ratio	Lower	Upper
56	100		
43	58.4	40.9	80.9

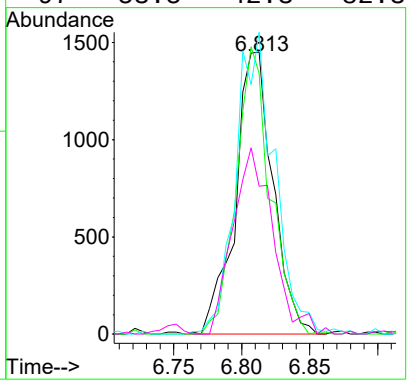


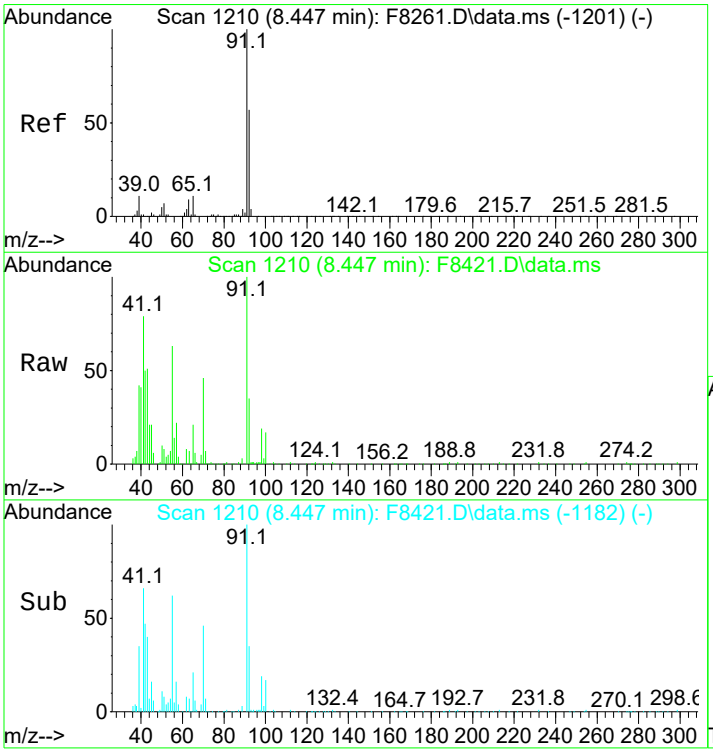


#54
Trichloroethene
Concen: 0.71 ug/L
RT: 6.813 min Scan# 942
Delta R.T. 0.000 min
Lab File: F8421.D
Acq: 25 Feb 2024 10:57 pm

Tgt Ion:130 Resp: 2802

Ion	Ratio	Lower	Upper
130	100		
132	92.5	73.2	113.2
95	107.0	77.2	117.2
97	53.5	42.3	82.3

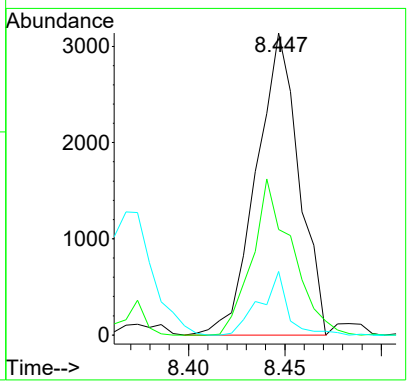


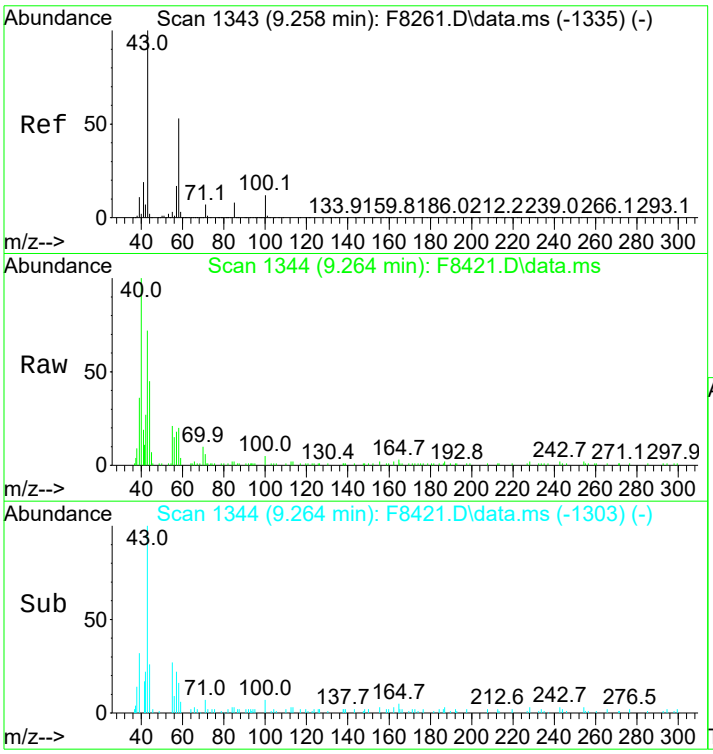


#66
Toluene
Concen: 0.28 ug/L
RT: 8.447 min Scan# 1210
Delta R.T. 0.000 min
Lab File: F8421.D
Acq: 25 Feb 2024 10:57 pm

Tgt Ion: 91 Resp: 4816

Ion	Ratio	Lower	Upper
91	100		
92	34.9	37.4	77.4#
65	21.1	0.0	31.5

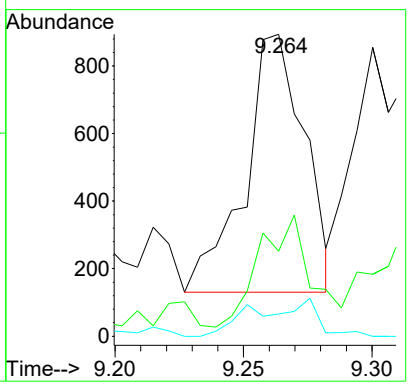




#73
2-Hexanone
Concen: 0.26 ug/L
RT: 9.264 min Scan# 1344
Delta R.T. 0.006 min
Lab File: F8421.D
Acq: 25 Feb 2024 10:57 pm

Tgt Ion: 43 Resp: 1228

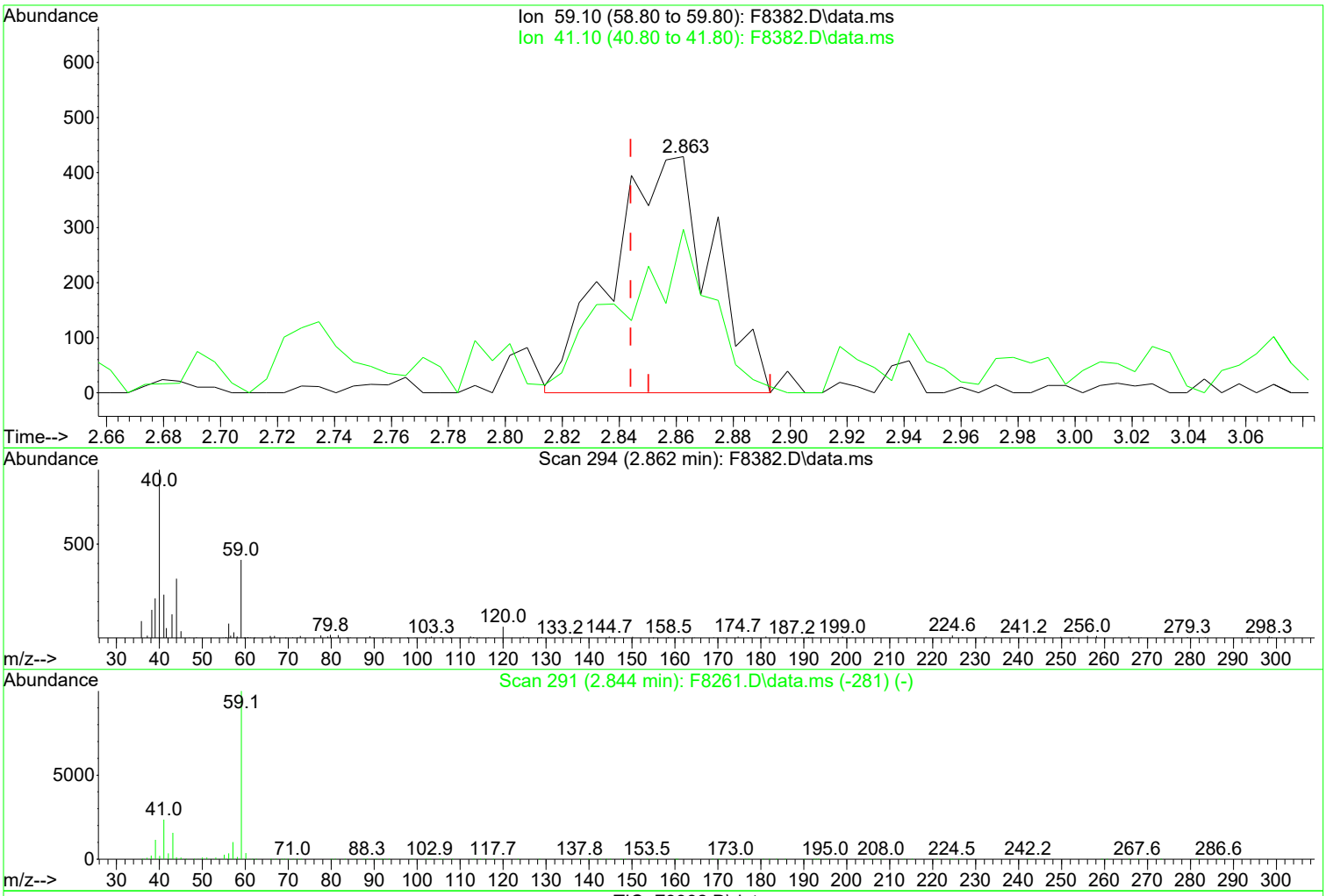
Ion	Ratio	Lower	Upper
43	100		
58	28.2	32.7	72.7#
100	7.4	0.0	32.1



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8382.D
Acq On : 23 Feb 2024 05:55 pm
Operator : F.NAEGLER
Sample : R2401280-012
Misc : CEC 25499 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 25 12:21:43 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



TIC: F8382.D\data.ms

(24) TBA

2.862min (+ 0.018) 1.61 ug/L m

response 1052

Ion	Exp%	Act%
59.10	100.00	100.00
41.10	23.60	56.32#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

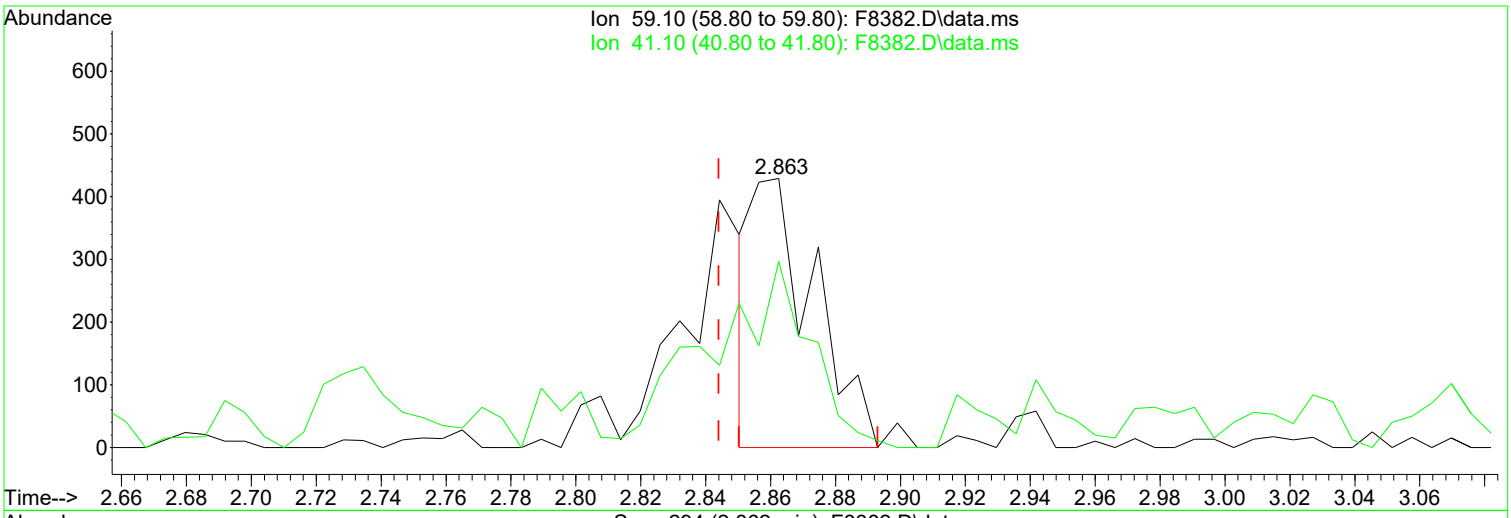
Poor integration.

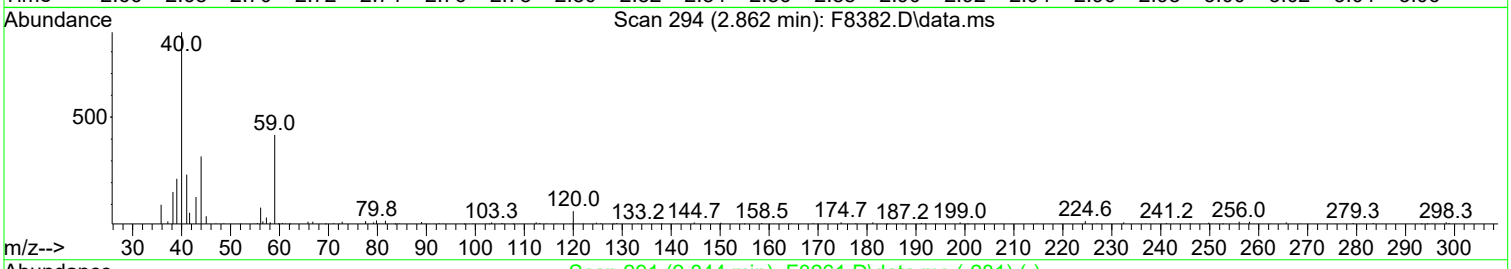
02/26/24

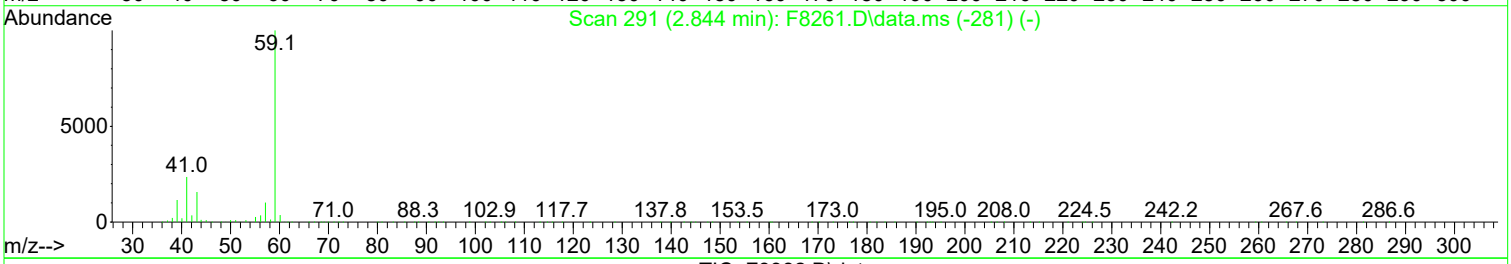
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8382.D
Acq On : 23 Feb 2024 05:55 pm
Operator : F.NAEGLER
Sample : R2401280-012
Misc : CEC 25499 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 25 12:21:43 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8382.D\data.ms

(24) TBA

2.862min (+ 0.018) 0.87 ug/L

response 567

Ion	Exp%	Act%
59.10	100.00	100.00
41.10	23.60	69.23#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

02/26/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8382.D
Acq On : 23 Feb 2024 05:55 pm
Operator : F.NAEGLER
Sample : R2401280-012
Misc : CEC 25499 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 25 12:21:43 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

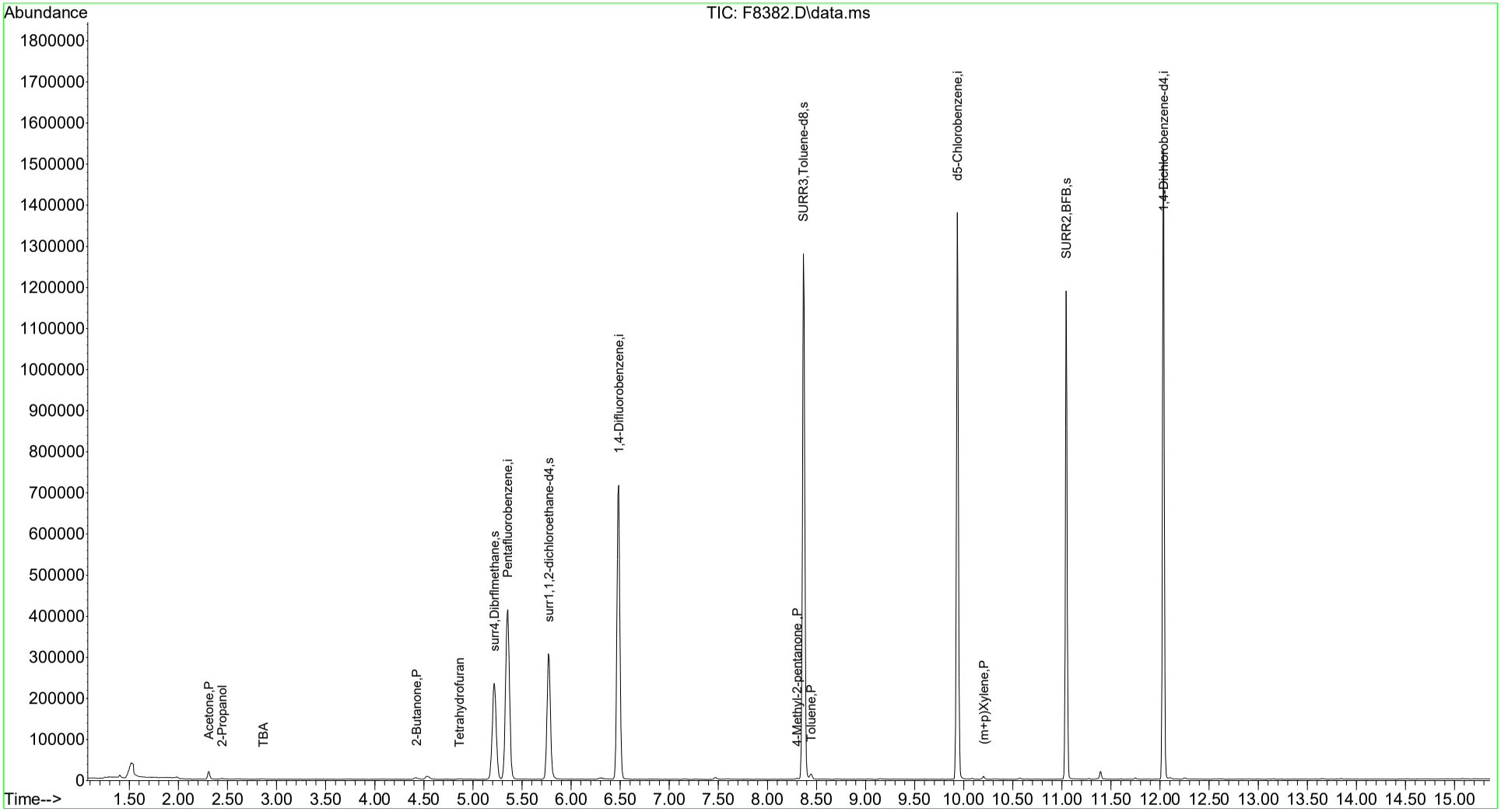
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.356	168	393626	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.484	114	623841	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.934	117	599966	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	12.038	152	299119	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.216	113	194443	48.62	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 97.24%			
48) surr1,1,2-dichloroetha...	5.770	65	265959	50.67	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 101.34%			
65) SURR3,Toluene-d8	8.368	98	780757	48.00	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 96.00%			
70) SURR2,BFB	11.044	95	274434	44.42	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 88.84%			
Target Compounds						Qvalue
16) Acetone	2.308	43	19759	8.463	ug/L	97
17) 2-Propanol	2.448	45	2047	5.453	ug/L #	11
24) TBA	2.862	59	1052m	1.610	ug/L	
35) 2-Butanone	4.423	43	6849	2.157	ug/L	94
39) Tetrahydrofuran	4.862	42	1319	0.626	ug/L	77
64) 4-Methyl-2-pentanone	8.300	43	1879	0.301	ug/L	89
66) Toluene	8.447	91	7813	0.489	ug/L	94
83) (m+p)Xylene	10.203	106	1755	0.256	ug/L #	72

(#) = qualifier out of range (m) = manual integration (+) = signals summed

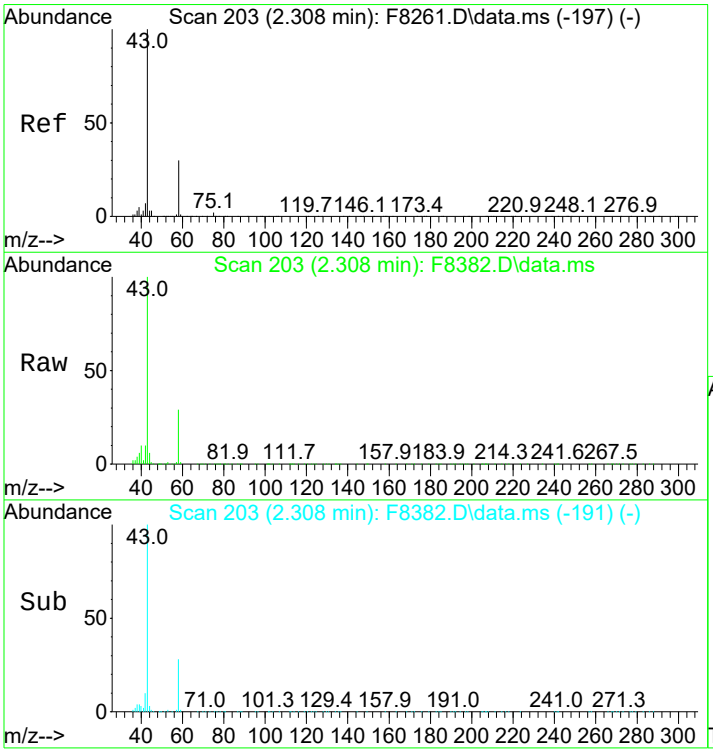
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8382.D
Acq On : 23 Feb 2024 05:55 pm
Operator : F.NAEGLER
Sample : R2401280-012
Misc : CEC 25499 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 25 12:21:43 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



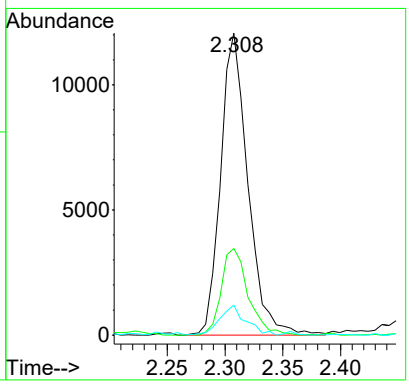
1st FJ 02/26/24
2nd AM 02/27/24

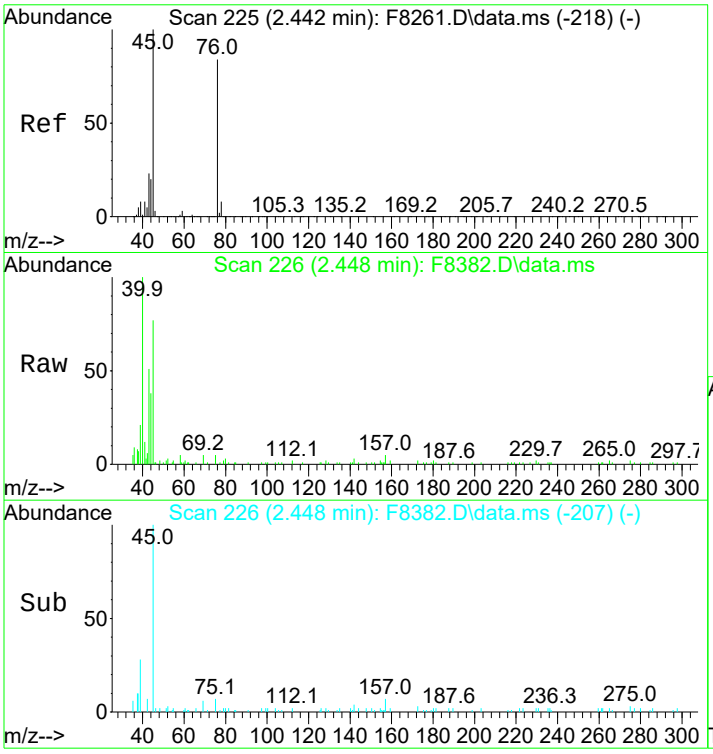


#16
Acetone
Concen: 8.46 ug/L
RT: 2.308 min Scan# 203
Delta R.T. 0.000 min
Lab File: F8382.D
Acq: 23 Feb 2024 05:55 pm

Tgt Ion: 43 Resp: 19759

Ion	Ratio	Lower	Upper
43	100		
58	28.7	10.0	50.0
42	9.9	0.0	27.2

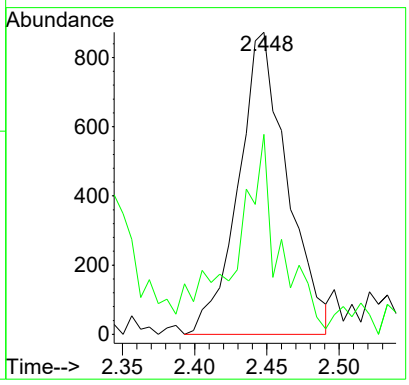


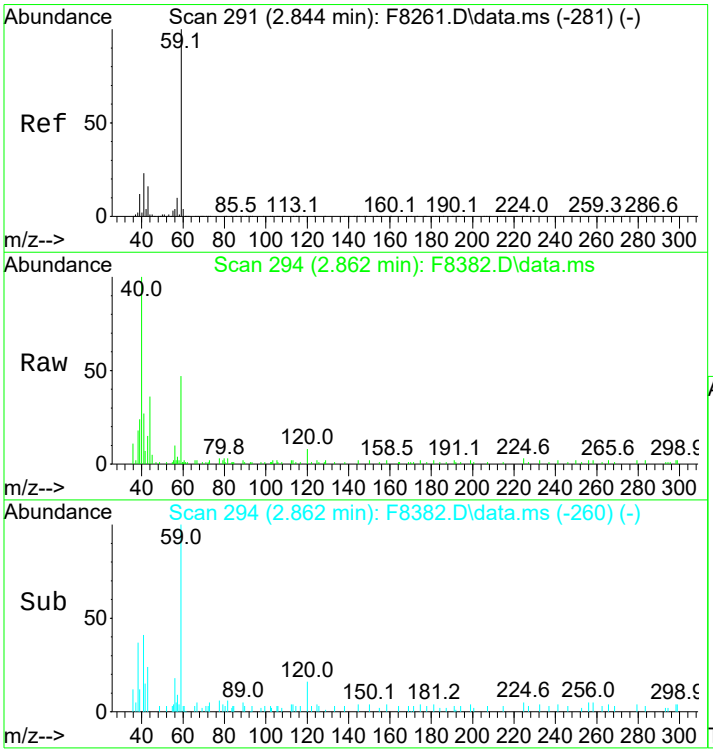


#17
2-Propanol
Concen: 5.45 ug/L
RT: 2.448 min Scan# 226
Delta R.T. 0.006 min
Lab File: F8382.D
Acq: 23 Feb 2024 05:55 pm

Tgt Ion: 45 Resp: 2047

Ion	Ratio	Lower	Upper
45	100		
43	66.2	3.0	43.0#

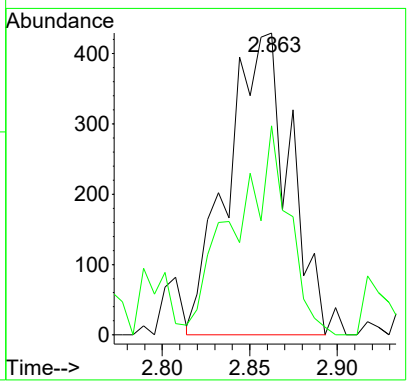


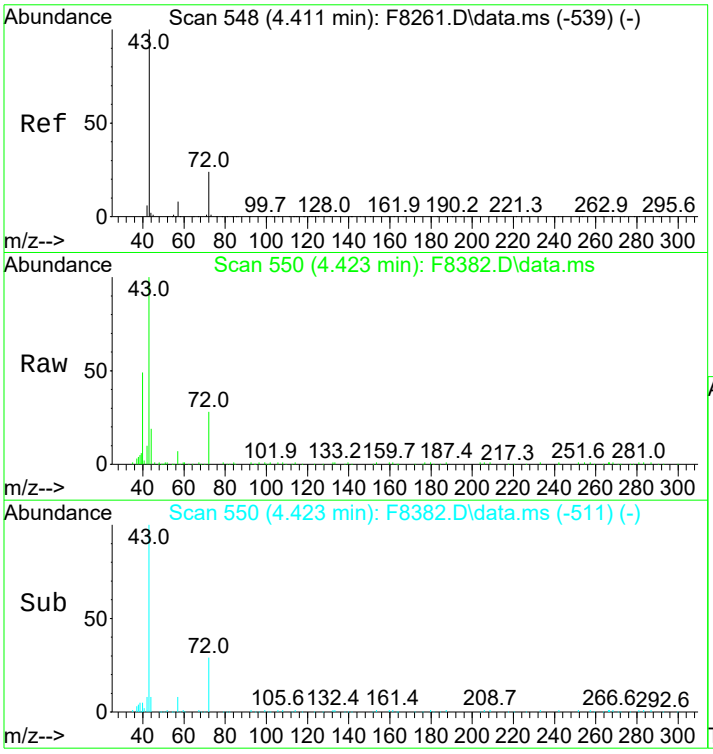


#24
TBA
Concen: 1.61 ug/L m
RT: 2.862 min Scan# 294
Delta R.T. 0.018 min
Lab File: F8382.D
Acq: 23 Feb 2024 05:55 pm

Tgt Ion: 59 Resp: 1052

Ion	Ratio	Lower	Upper
59	100		
41	56.3	3.6	43.6#

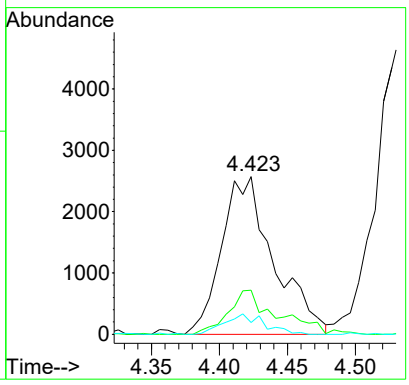


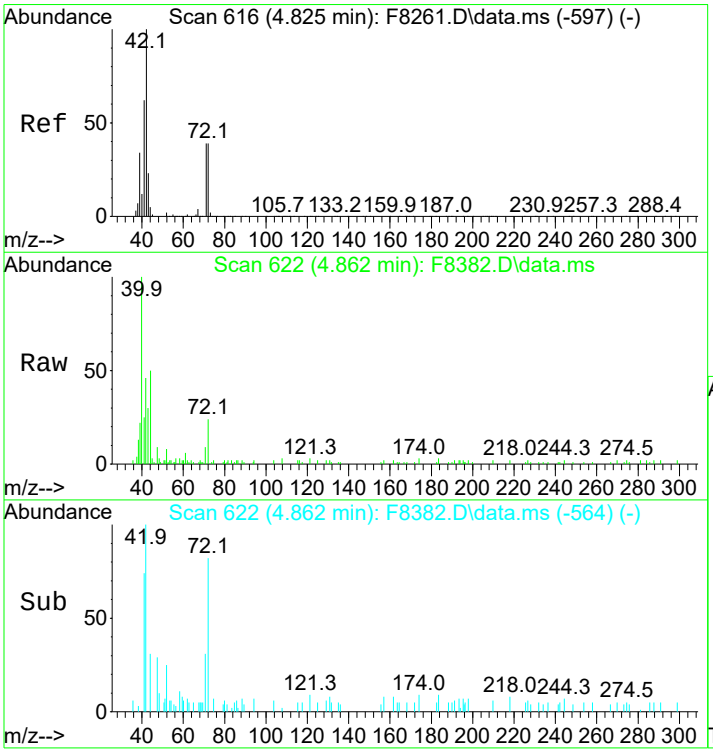


#35
2-Butanone
Concen: 2.16 ug/L
RT: 4.423 min Scan# 550
Delta R.T. 0.012 min
Lab File: F8382.D
Acq: 23 Feb 2024 05:55 pm

Tgt Ion: 43 Resp: 6849

Ion	Ratio	Lower	Upper
43	100		
72	28.0	4.5	44.5
57	7.5	0.0	27.8

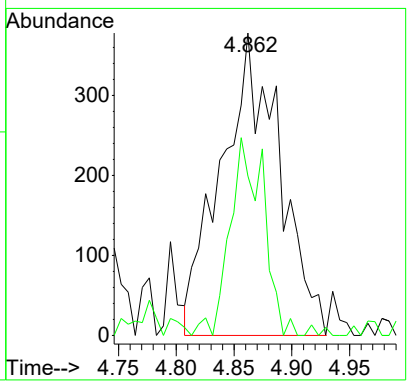


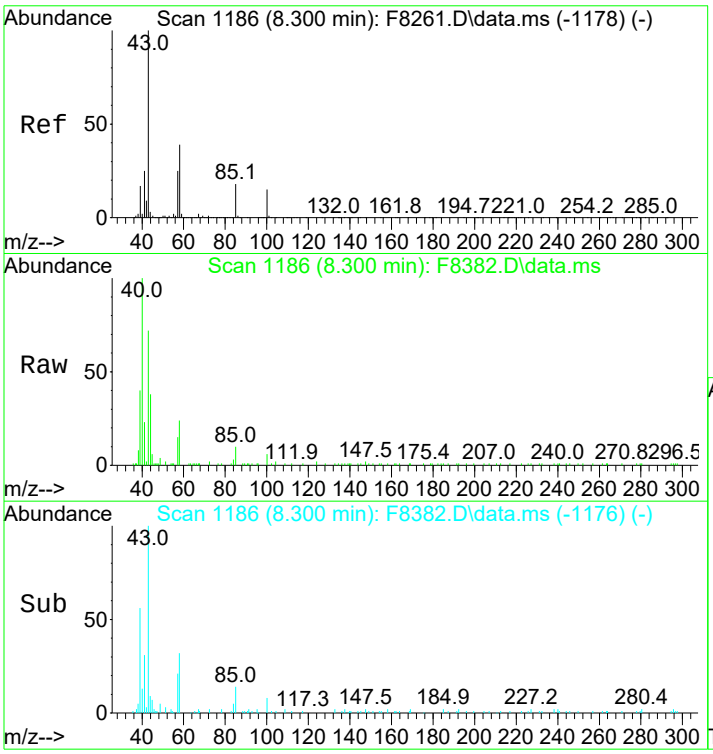


#39
Tetrahydrofuran
Concen: 0.63 ug/L
RT: 4.862 min Scan# 622
Delta R.T. 0.037 min
Lab File: F8382.D
Acq: 23 Feb 2024 05:55 pm

Tgt Ion: 42 Resp: 1319

Ion	Ratio	Lower	Upper
42	100		
72	52.6	18.9	58.9

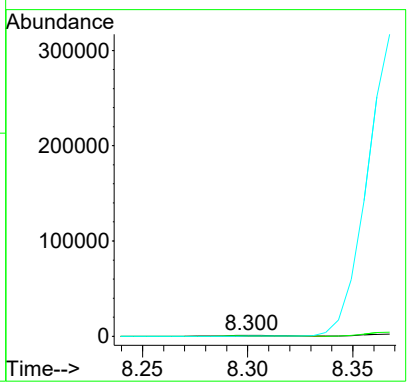


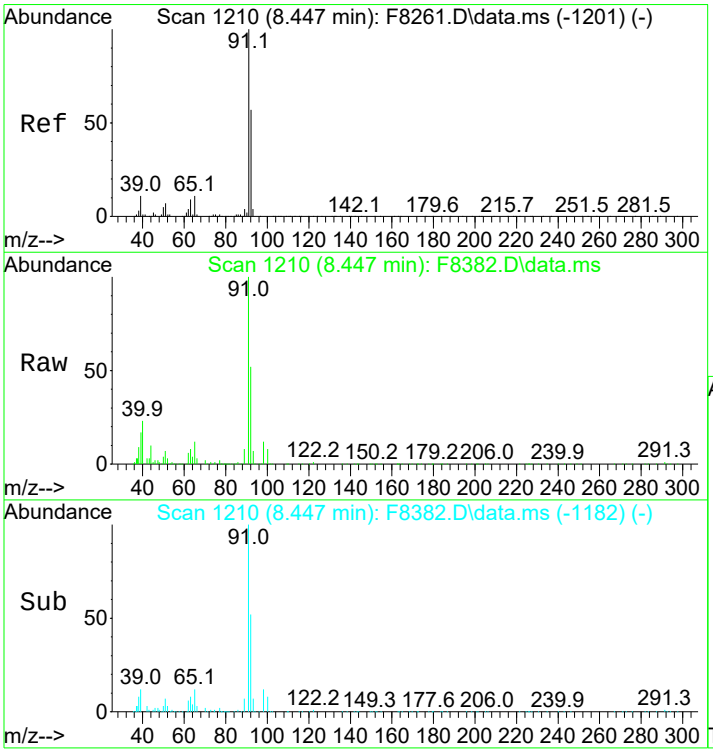


#64
4-Methyl-2-pentanone
Concen: 0.30 ug/L
RT: 8.300 min Scan# 1186
Delta R.T. 0.000 min
Lab File: F8382.D
Acq: 23 Feb 2024 05:55 pm

Tgt Ion: 43 Resp: 1879

Ion	Ratio	Lower	Upper
43	100		
58	33.3	18.7	58.7
100	8.3	0.0	35.4

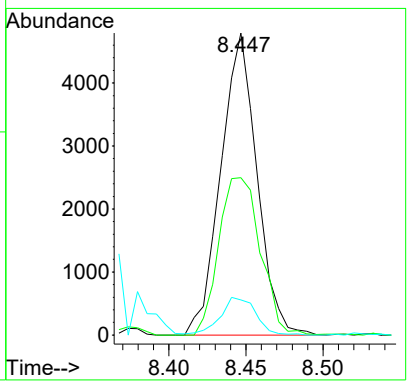


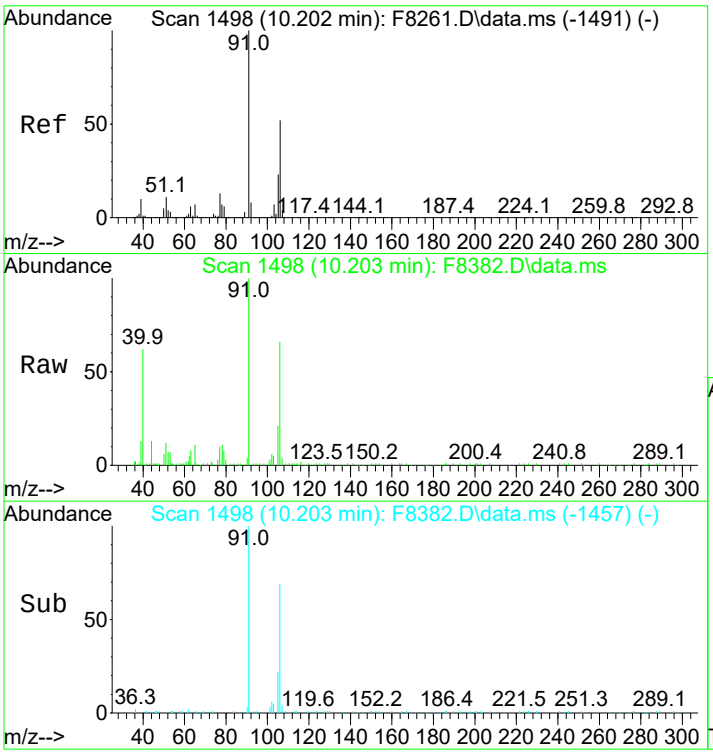


#66
Toluene
Concen: 0.49 ug/L
RT: 8.447 min Scan# 1210
Delta R.T. 0.000 min
Lab File: F8382.D
Acq: 23 Feb 2024 05:55 pm

Tgt Ion: 91 Resp: 7813

Ion	Ratio	Lower	Upper
91	100		
92	52.1	37.4	77.4
65	11.7	0.0	31.5

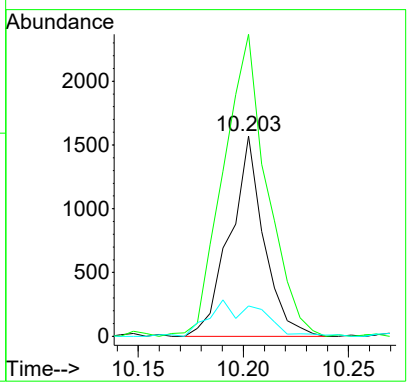




#83
(m+p)Xylene
Concen: 0.26 ug/L
RT: 10.203 min Scan# 1498
Delta R.T. 0.000 min
Lab File: F8382.D
Acq: 23 Feb 2024 05:55 pm

Tgt Ion:106 Resp: 1755

Ion	Ratio	Lower	Upper
106	100		
91	150.7	173.9	213.9#
77	15.1	6.1	46.1



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8412.D
Acq On : 25 Feb 2024 07:37 pm
Operator : F.NAEGLER
Sample : R2401280-013
Misc : CEC 25499 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 26 09:02:39 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

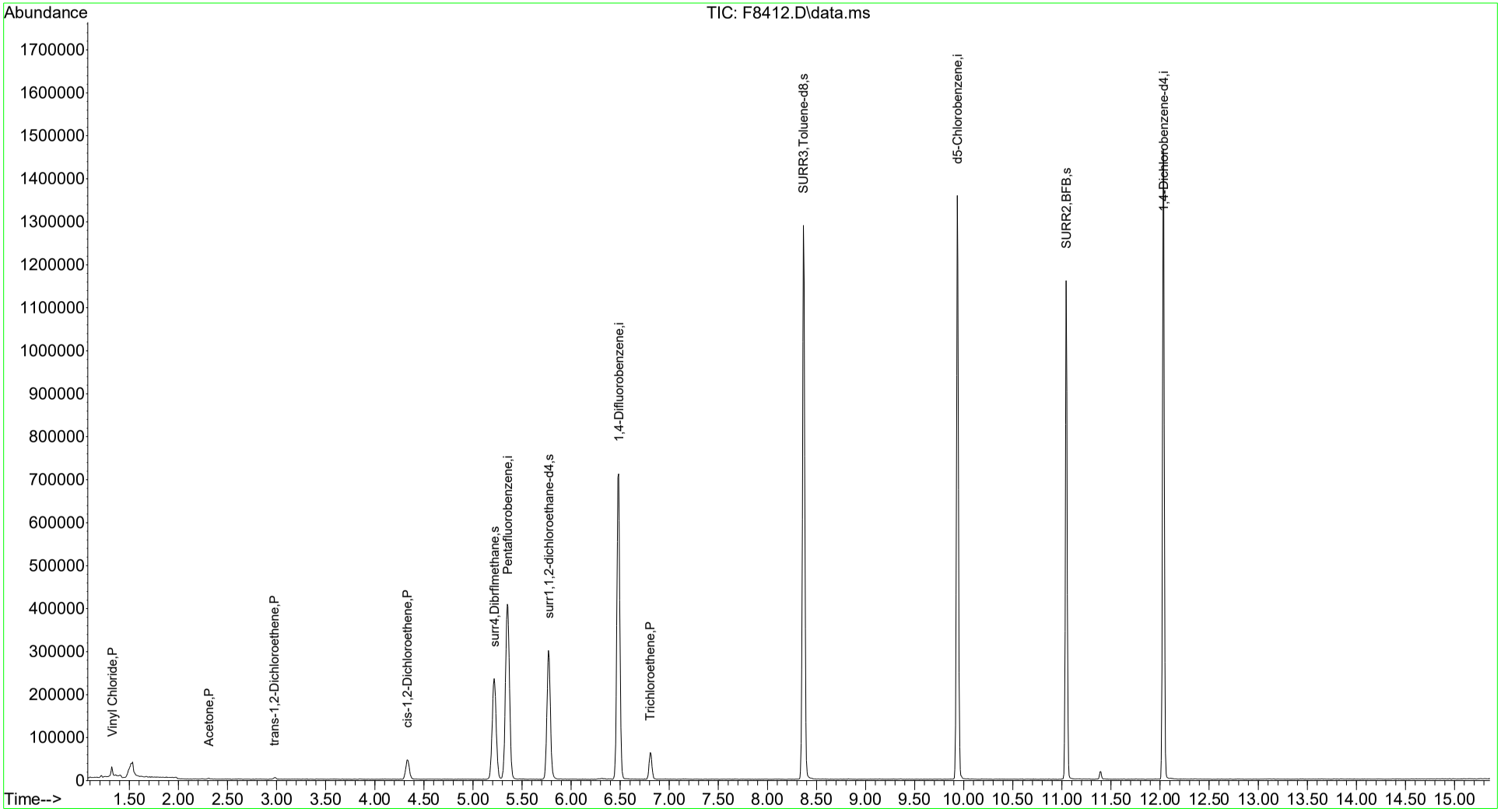
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.356	168	399590	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.484	114	634998	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.934	117	590957	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	12.037	152	294016	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.216	113	194071	47.67	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 95.34%			
48) surr1,1,2-dichloroetha...	5.770	65	261833	49.01	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 98.02%			
65) SURR3,Toluene-d8	8.367	98	781764	47.22	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 94.44%			
70) SURR2,BFB	11.044	95	275895	43.87	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 87.74%			
Target Compounds						Qvalue
4) Chloromethane	1.265	50	341	Below Cal		76
5) Vinyl Chloride	1.326	62	8082	1.666	ug/L	89
16) Acetone	2.308	43	1751	0.739	ug/L	82
27) trans-1,2-Dichloroethene	2.978	96	1342	0.391	ug/L	96
34) cis-1,2-Dichloroethene	4.332	96	26229	6.445	ug/L	96
54) Trichloroethene	6.807	130	21985	5.777	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

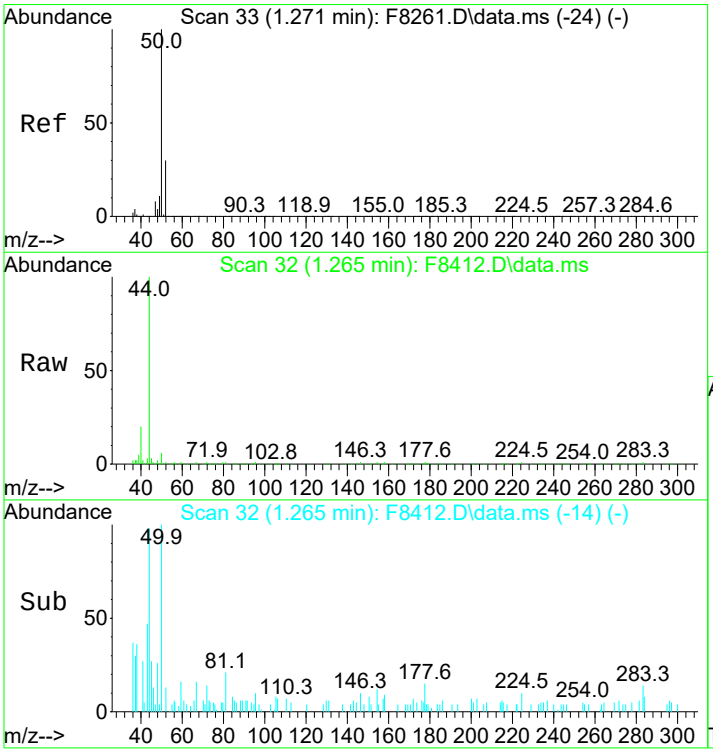
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8412.D
Acq On : 25 Feb 2024 07:37 pm
Operator : F.NAEGLER
Sample : R2401280-013
Misc : CEC 25499 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 26 09:02:39 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



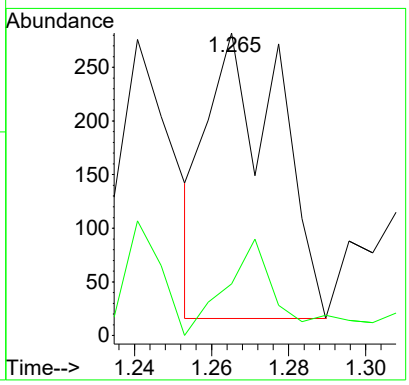
1st FJ 02/27/24
2nd AM 02/28/24

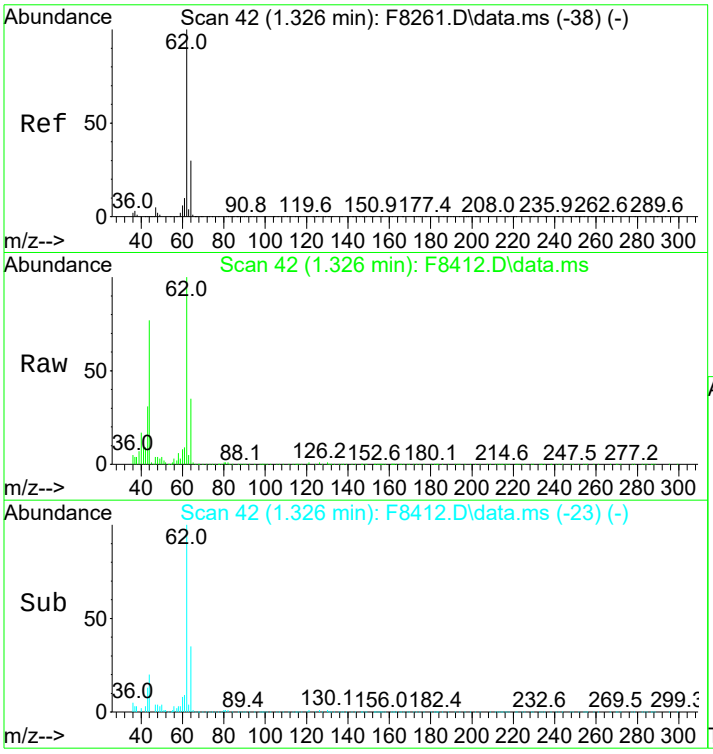


#4
Chloromethane
Concen: Below Cal
RT: 1.265 min Scan# 32
Delta R.T. -0.006 min
Lab File: F8412.D
Acq: 25 Feb 2024 07:37 pm

Tgt Ion: 50 Resp: 341

Ion	Ratio	Lower	Upper
50	100		
52	17.0	10.3	50.3

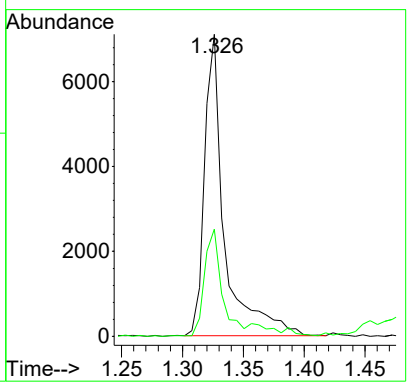


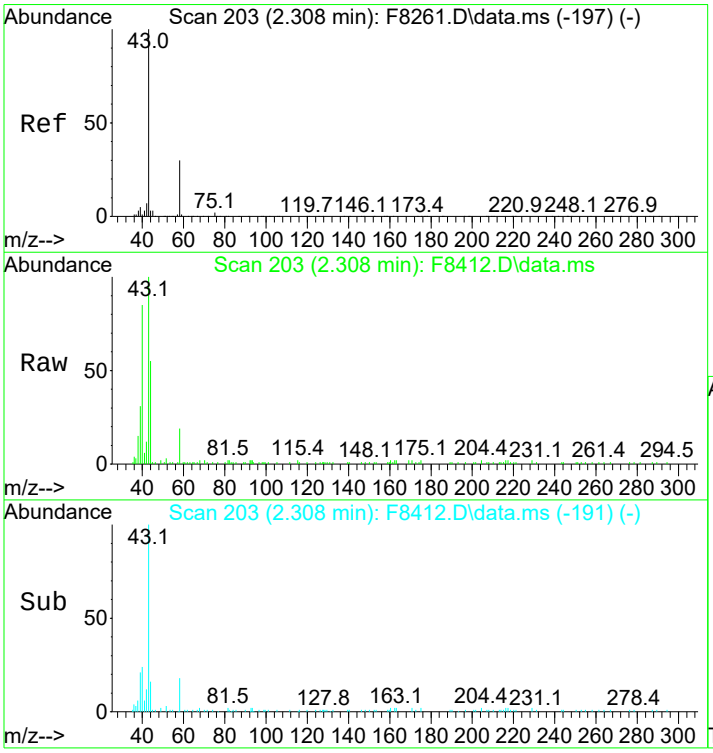


#5
Vinyl Chloride
Concen: 1.67 ug/L
RT: 1.326 min Scan# 42
Delta R.T. 0.000 min
Lab File: F8412.D
Acq: 25 Feb 2024 07:37 pm

Tgt Ion: 62 Resp: 8082

Ion	Ratio	Lower	Upper
62	100		
64	35.4	9.6	49.6

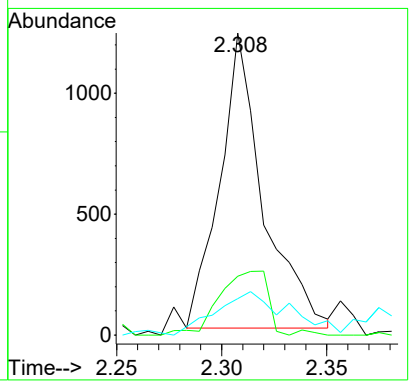


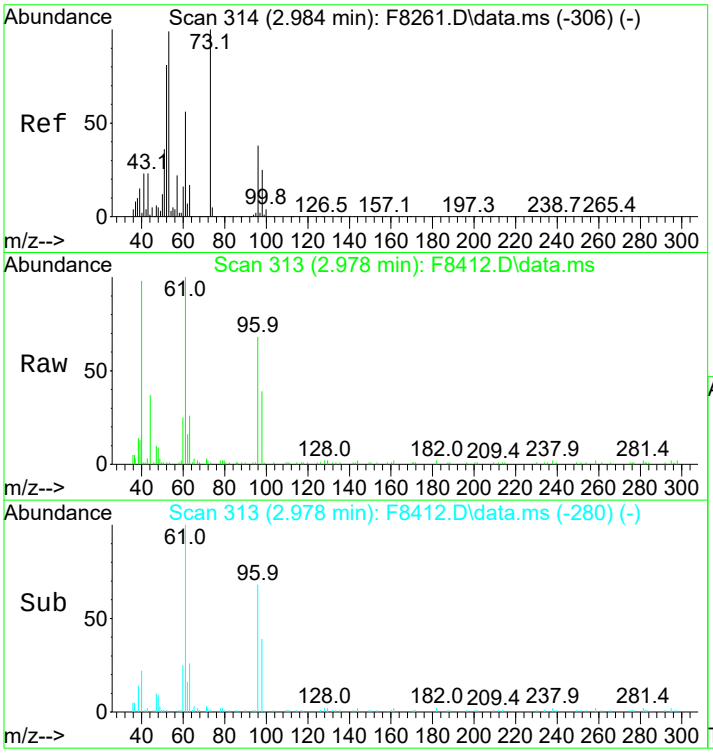


#16
Acetone
Concen: 0.74 ug/L
RT: 2.308 min Scan# 203
Delta R.T. 0.000 min
Lab File: F8412.D
Acq: 25 Feb 2024 07:37 pm

Tgt Ion: 43 Resp: 1751

Ion	Ratio	Lower	Upper
43	100		
58	19.5	10.0	50.0
42	12.1	0.0	27.2

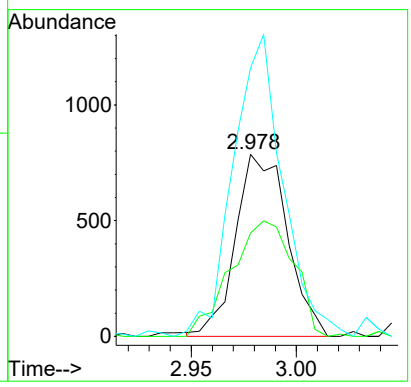


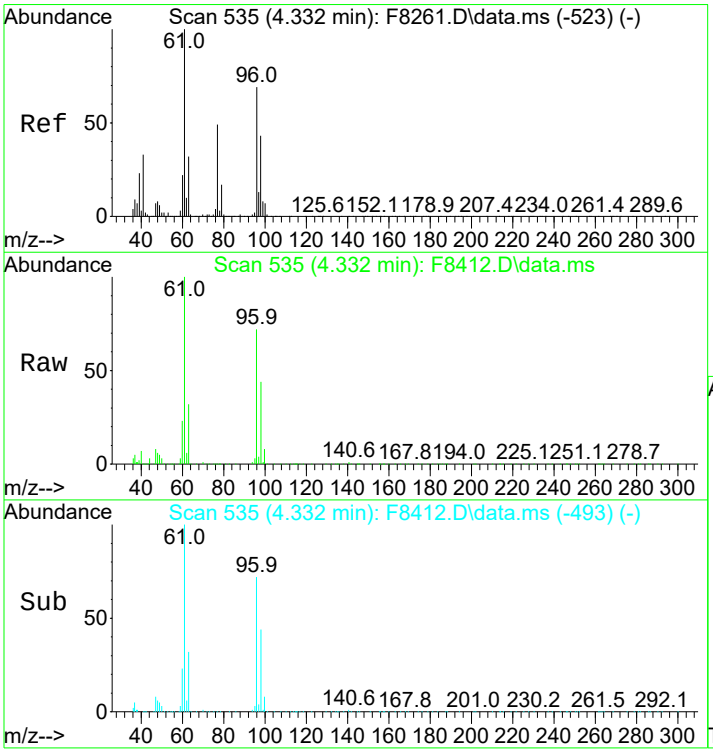


#27
trans-1,2-Dichloroethene
Concen: 0.39 ug/L
RT: 2.978 min Scan# 313
Delta R.T. -0.006 min
Lab File: F8412.D
Acq: 25 Feb 2024 07:37 pm

Tgt Ion: 96 Resp: 1342

Ion	Ratio	Lower	Upper
96	100		
98	56.8	45.9	85.9
61	147.4	128.4	168.4

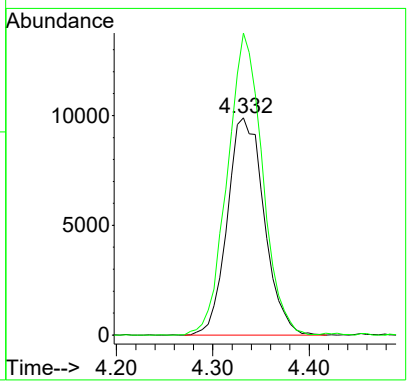


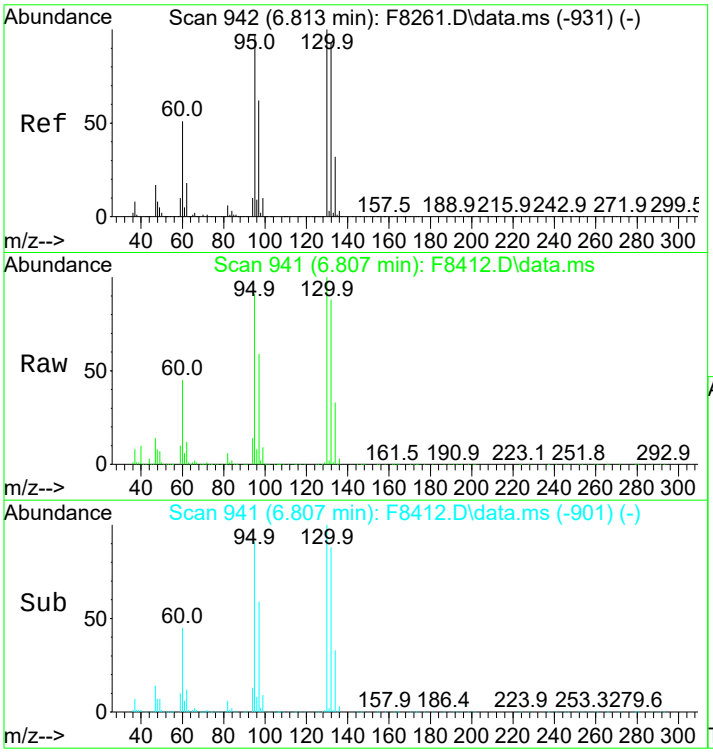


#34
cis-1,2-Dichloroethene
Concen: 6.44 ug/L
RT: 4.332 min Scan# 535
Delta R.T. 0.000 min
Lab File: F8412.D
Acq: 25 Feb 2024 07:37 pm

Tgt Ion: 96 Resp: 26229

Ion	Ratio	Lower	Upper
96	100		
61	138.9	124.5	164.5

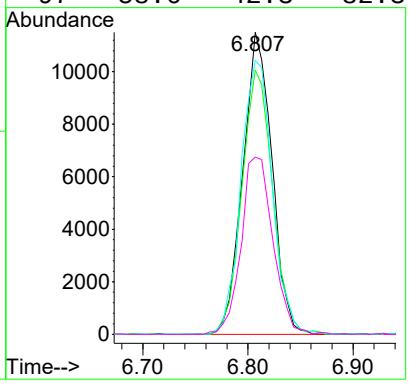




#54
Trichloroethene
Concen: 5.78 ug/L
RT: 6.807 min Scan# 941
Delta R.T. -0.006 min
Lab File: F8412.D
Acq: 25 Feb 2024 07:37 pm

Tgt Ion:130 Resp: 21985

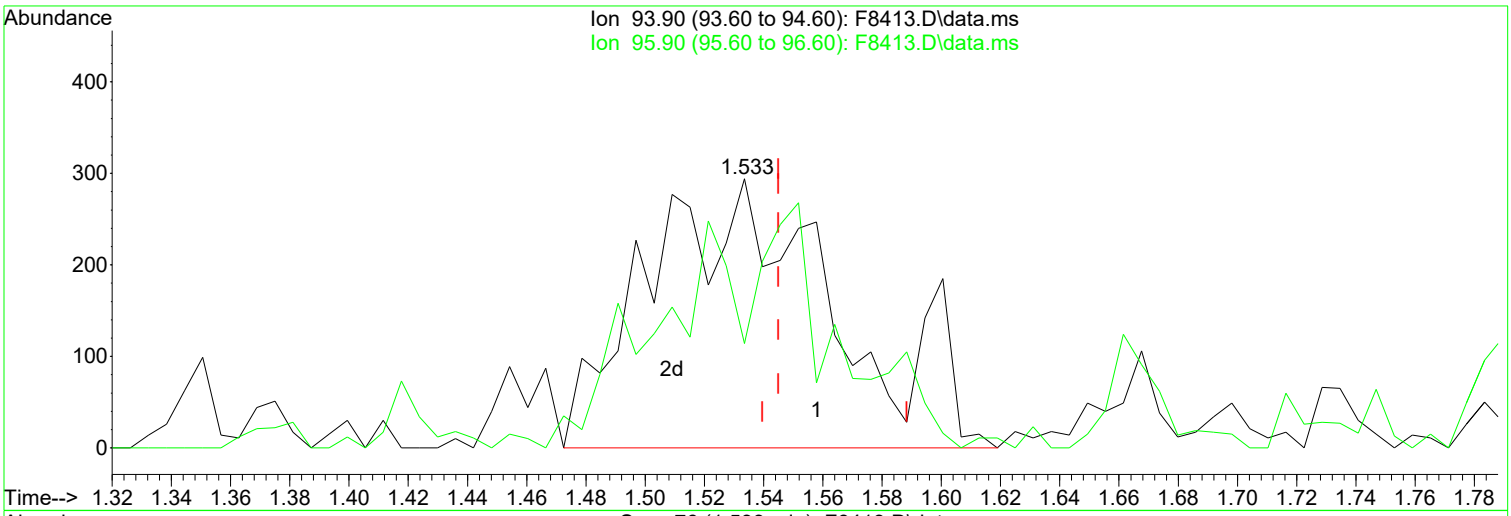
Ion	Ratio	Lower	Upper
130	100		
132	87.5	73.2	113.2
95	90.7	77.2	117.2
97	58.6	42.3	82.3

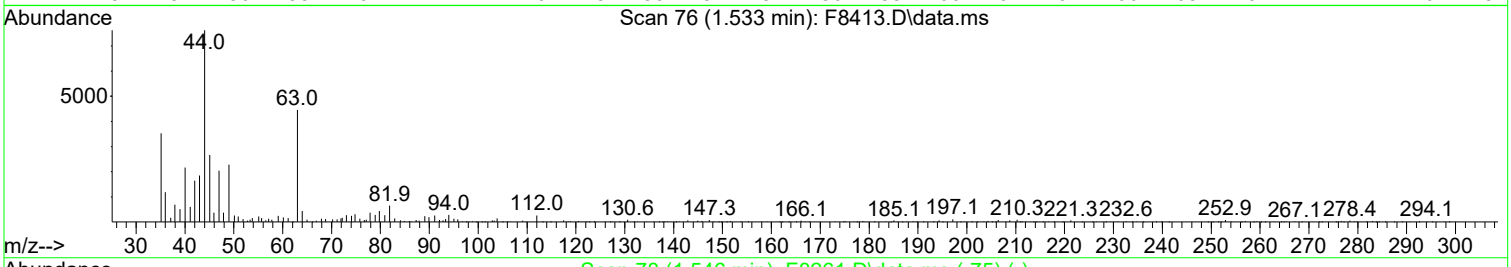


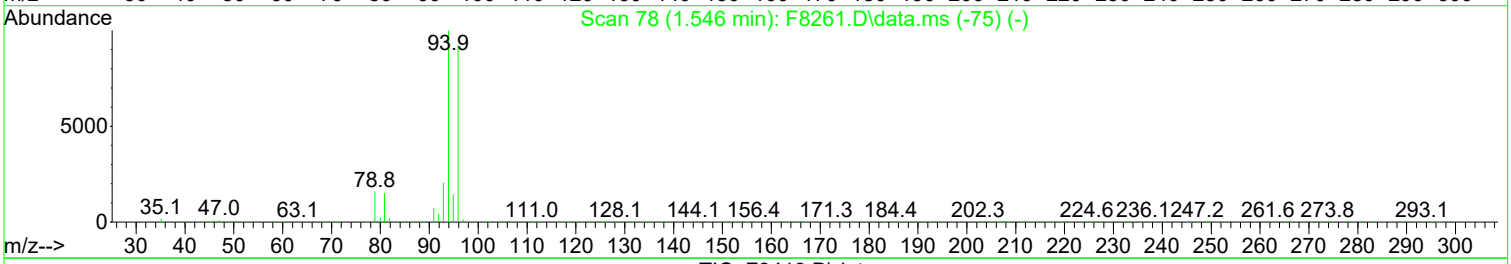
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8413.D
Acq On : 25 Feb 2024 07:59 pm
Operator : F.NAEGLER
Sample : R2401280-014
Misc : CEC 25499 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 26 09:02:56 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8413.D\data.ms

(6) Bromomethane (P)

1.533min (-0.012) 0.41 ug/L m

response 1300

Ion	Exp%	Act%
93.90	100.00	100.00
95.90	92.30	38.78#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

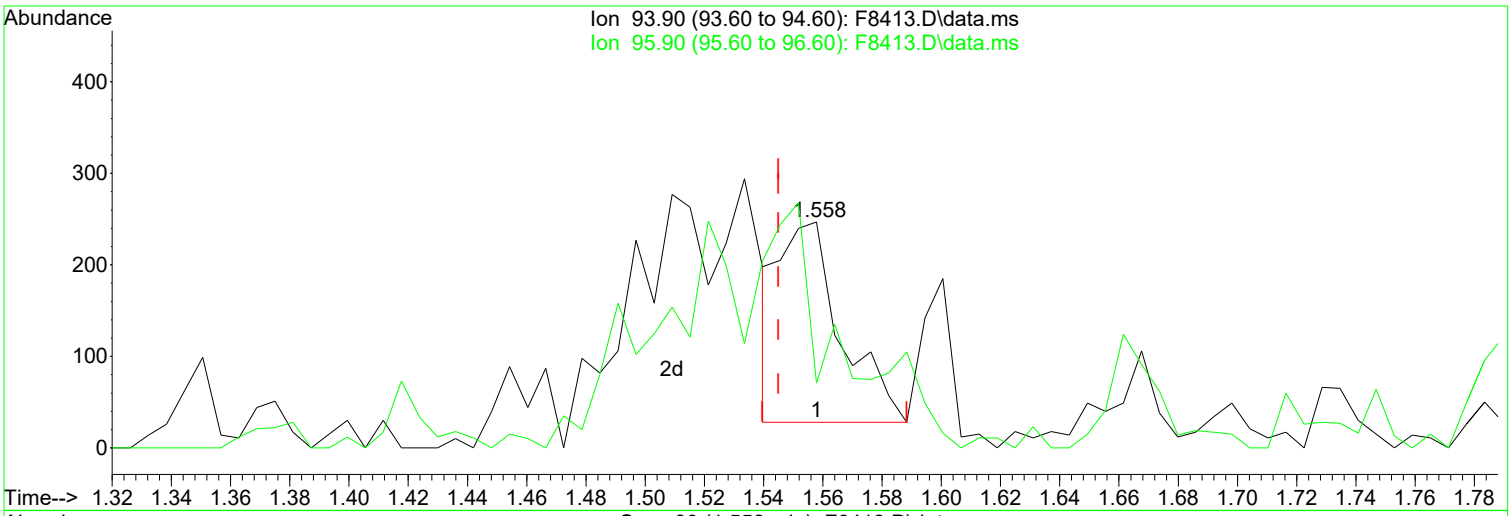
Poor integration.

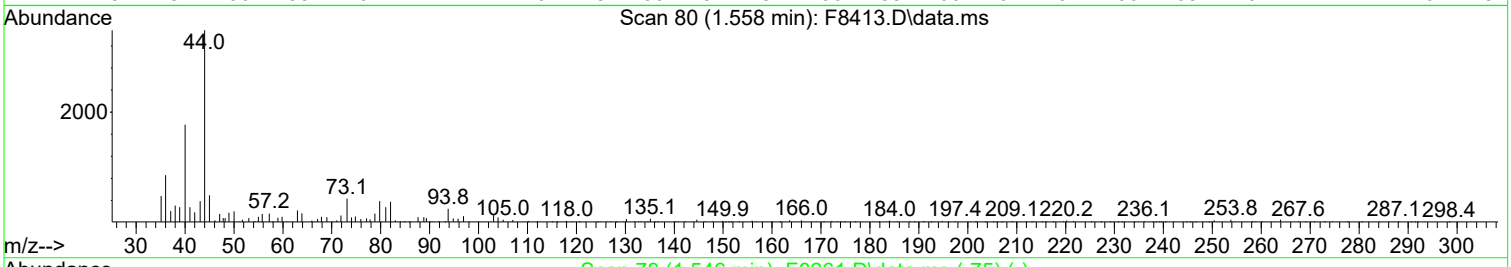
02/27/24

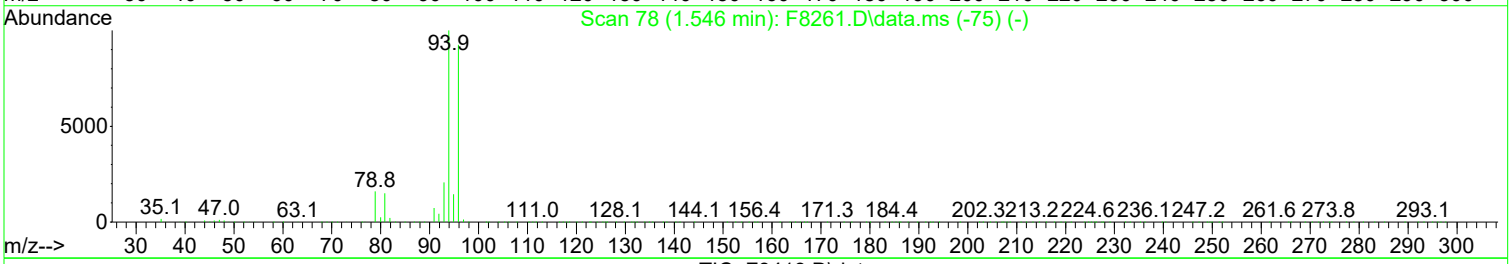
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8413.D
Acq On : 25 Feb 2024 07:59 pm
Operator : F.NAEGLER
Sample : R2401280-014
Misc : CEC 25499 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 26 09:02:56 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8413.D\data.ms

(6) Bromomethane (P)

1.558min (+ 0.013) 0.25 ug/L

response 319

Ion	Exp%	Act%
93.90	100.00	100.00
95.90	92.30	28.74#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

02/27/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8413.D
Acq On : 25 Feb 2024 07:59 pm
Operator : F.NAEGLER
Sample : R2401280-014
Misc : CEC 25499 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 26 09:02:56 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

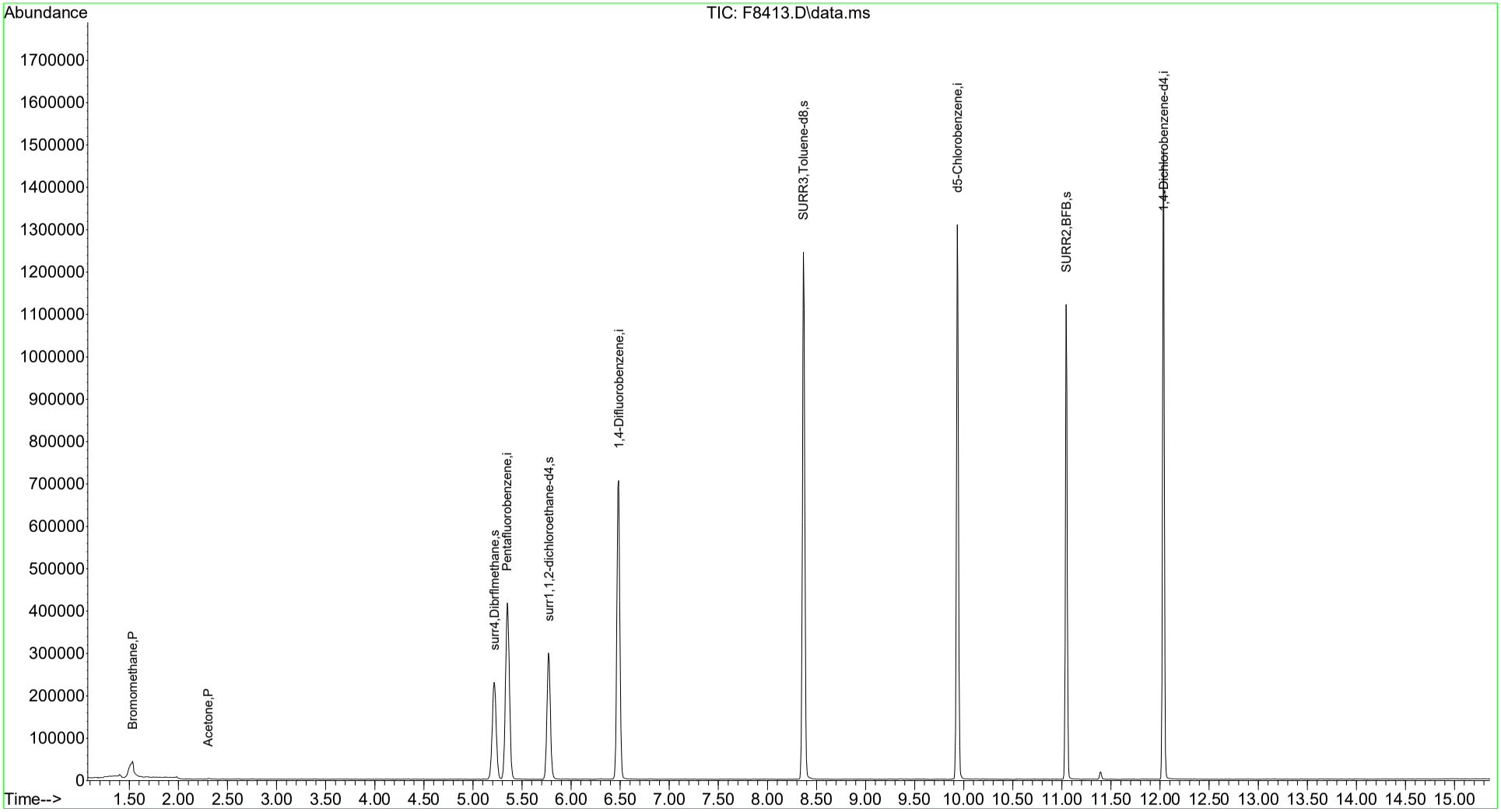
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.350	168	397611	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.484	114	629619	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.934	117	581623	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	12.038	152	293307	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.216	113	190850	47.28	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 94.56%			
48) surr1,1,2-dichloroetha...	5.770	65	259950	49.07	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 98.14%			
65) SURR3,Toluene-d8	8.368	98	768906	46.84	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 93.68%			
70) SURR2,BFB	11.044	95	270540	43.39	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 86.78%			
Target Compounds						Qvalue
4) Chloromethane	1.247	50	597	Below Cal		92
6) Bromomethane	1.533	94	1300m	0.413	ug/L	
16) Acetone	2.302	43	2032	0.862	ug/L	82

(#) = qualifier out of range (m) = manual integration (+) = signals summed

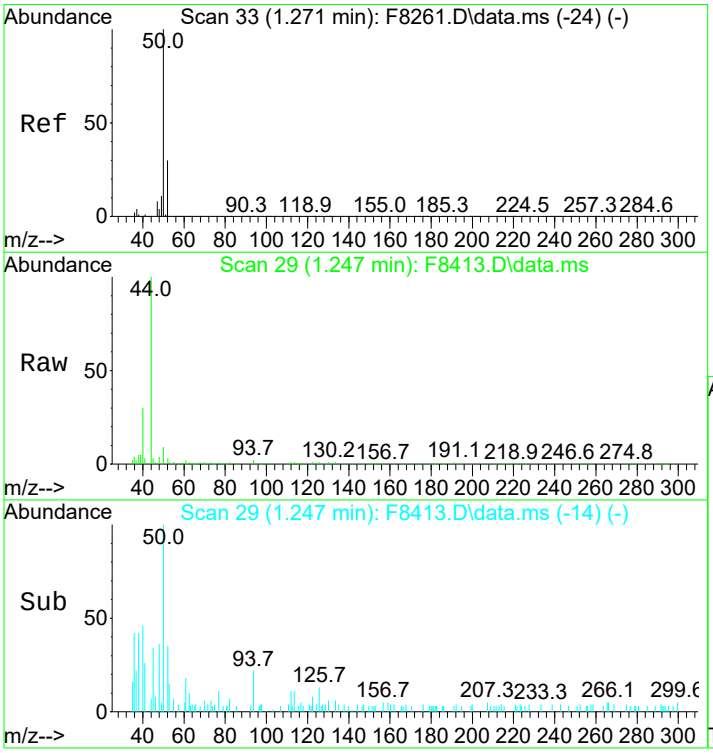
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8413.D
Acq On : 25 Feb 2024 07:59 pm
Operator : F.NAEGLER
Sample : R2401280-014
Misc : CEC 25499 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 26 09:02:56 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



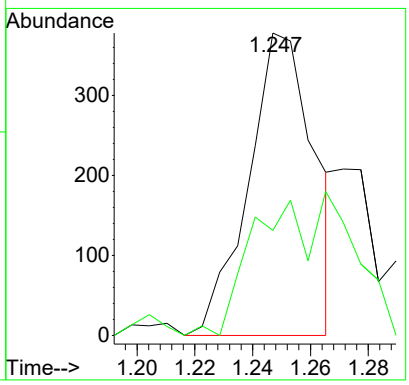
1st FJ 02/27/24
2nd AM 02/28/24

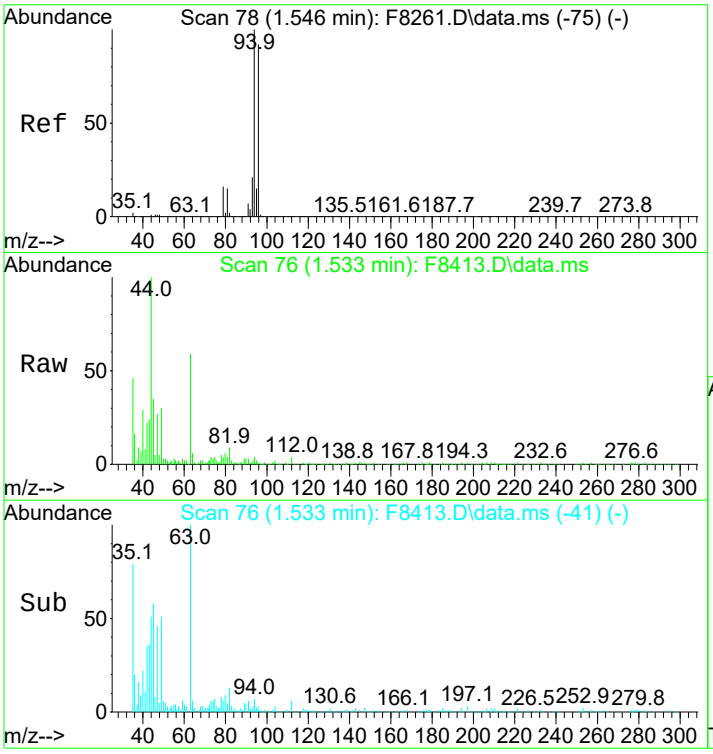


#4
Chloromethane
Concen: Below Cal
RT: 1.247 min Scan# 29
Delta R.T. -0.024 min
Lab File: F8413.D
Acq: 25 Feb 2024 07:59 pm

Tgt Ion: 50 Resp: 597

Ion	Ratio	Lower	Upper
50	100		
52	34.7	10.3	50.3

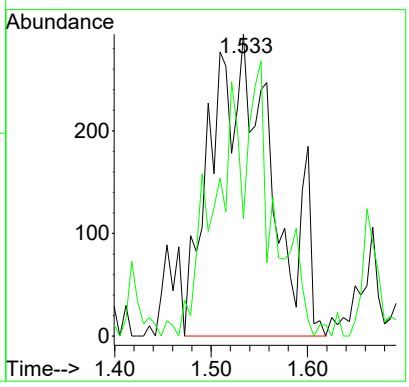


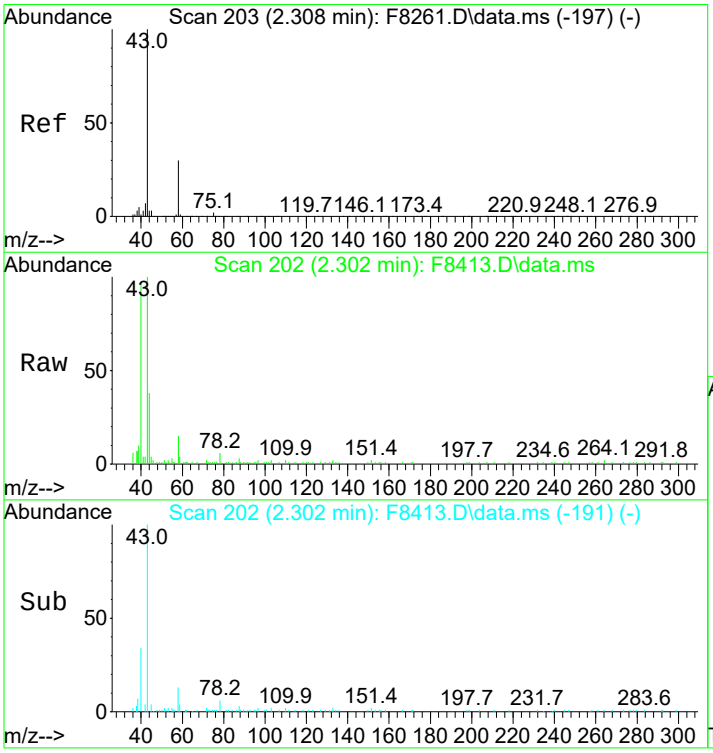


#6
Bromomethane
Concen: 0.41 ug/L m
RT: 1.533 min Scan# 76
Delta R.T. -0.012 min
Lab File: F8413.D
Acq: 25 Feb 2024 07:59 pm

Tgt Ion: 94 Resp: 1300

Ion	Ratio	Lower	Upper
94	100		
96	38.8	72.3	112.3#

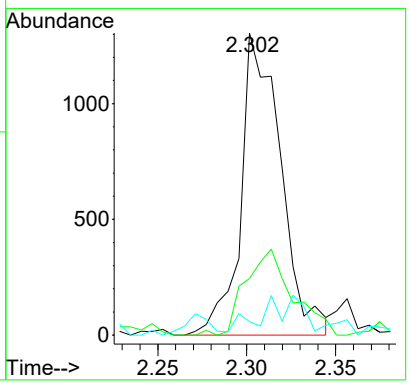




#16
Acetone
Concen: 0.86 ug/L
RT: 2.302 min Scan# 202
Delta R.T. -0.006 min
Lab File: F8413.D
Acq: 25 Feb 2024 07:59 pm

Tgt Ion: 43 Resp: 2032

Ion	Ratio	Lower	Upper
43	100		
58	18.8	10.0	50.0
42	4.4	0.0	27.2



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8420.D
Acq On : 25 Feb 2024 10:35 pm
Operator : F.NAEGLER
Sample : R2401280-015
Misc : CEC 25499 T4
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Feb 26 09:05:18 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

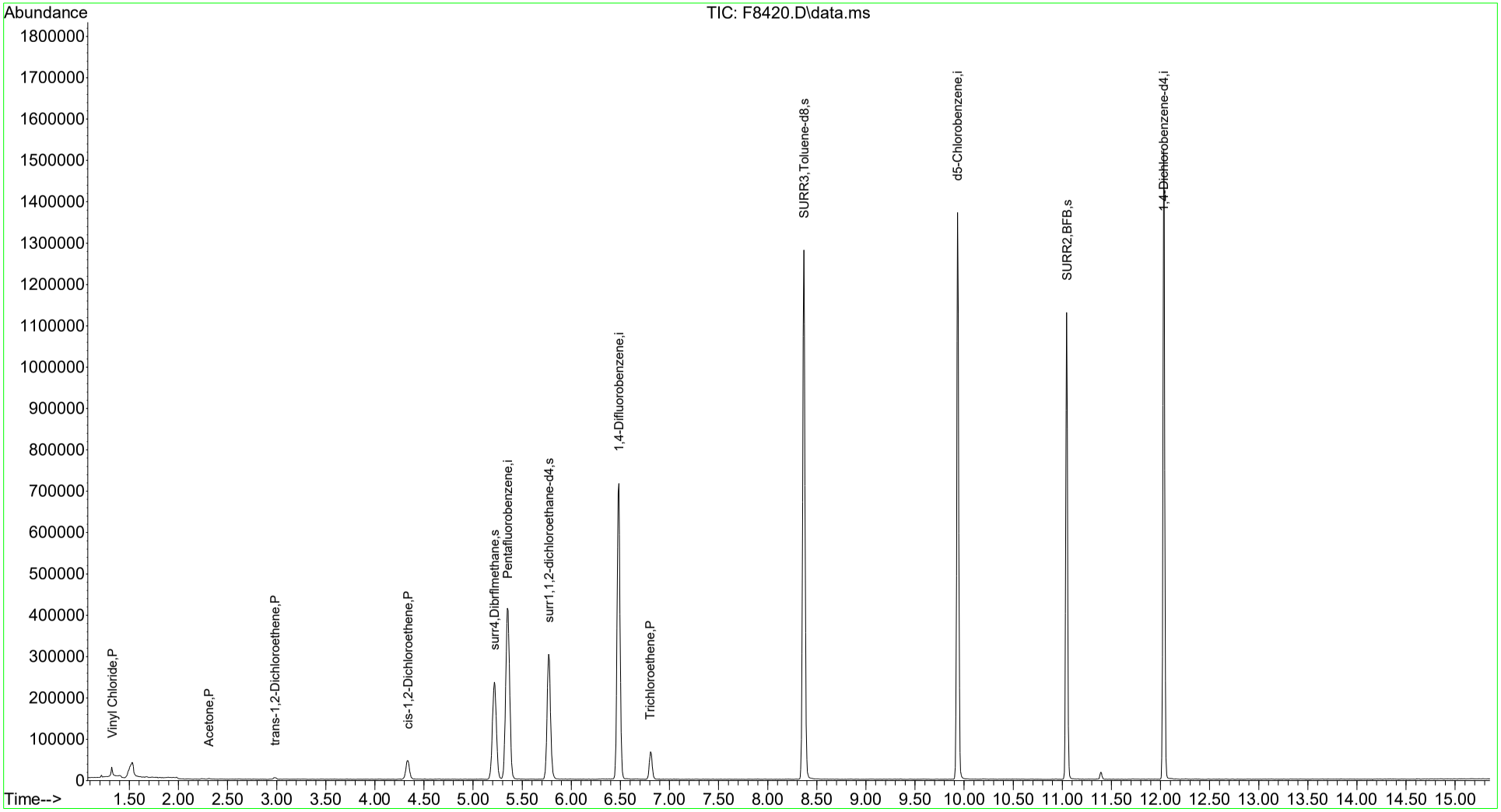
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.356	168	399553	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.484	114	633573	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.934	117	595419	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	12.032	152	298762	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.216	113	195017	48.01	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 96.02%			
48) surr1,1,2-dichloroetha...	5.771	65	265847	49.87	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 99.74%			
65) SURR3,Toluene-d8	8.368	98	791810	47.93	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 95.86%			
70) SURR2,BFB	11.044	95	277037	44.15	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 88.30%			
Target Compounds						Qvalue
4) Chloromethane	1.247	50	613	Below Cal		85
5) Vinyl Chloride	1.326	62	8396	1.731	ug/L	96
16) Acetone	2.308	43	1788	0.754	ug/L	91
27) trans-1,2-Dichloroethene	2.978	96	1535	0.448	ug/L	95
34) cis-1,2-Dichloroethene	4.338	96	26986	6.632	ug/L #	81
54) Trichloroethene	6.807	130	23374	6.156	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

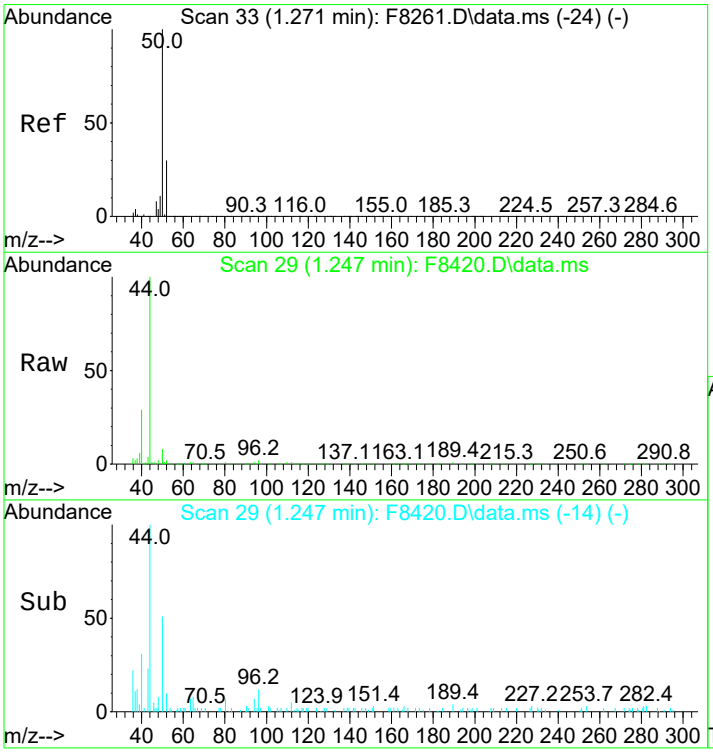
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8420.D
Acq On : 25 Feb 2024 10:35 pm
Operator : F.NAEGLER
Sample : R2401280-015
Misc : CEC 25499 T4
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Feb 26 09:05:18 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



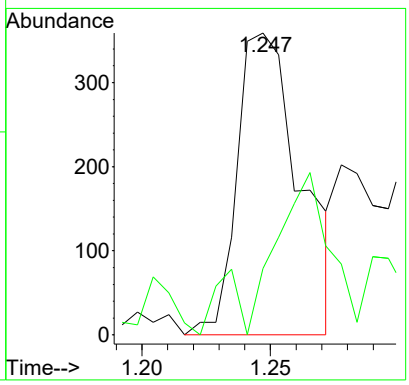
1st FJ 02/27/24
2nd AM 02/28/24

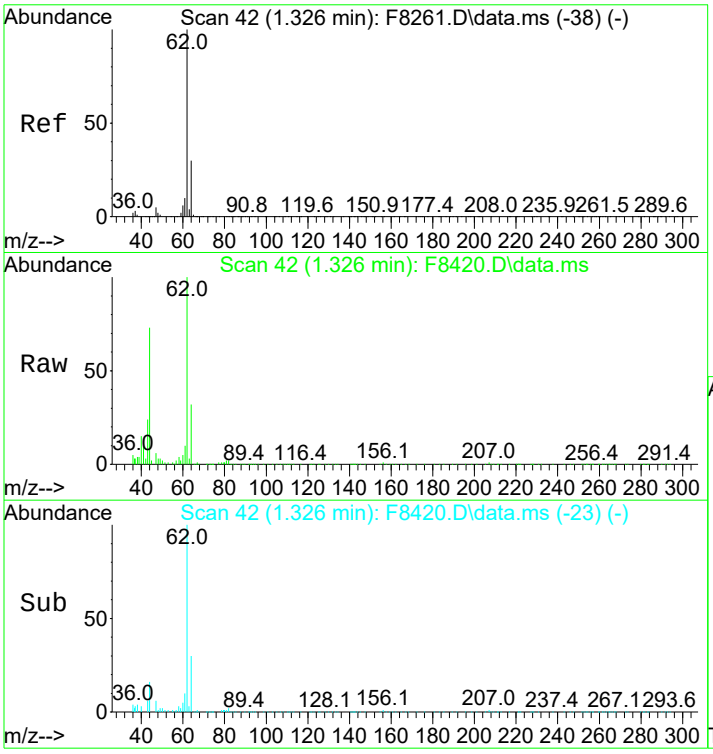


#4
Chloromethane
Concen: Below Cal
RT: 1.247 min Scan# 29
Delta R.T. -0.024 min
Lab File: F8420.D
Acq: 25 Feb 2024 10:35 pm

Tgt Ion: 50 Resp: 613

Ion	Ratio	Lower	Upper
50	100		
52	22.0	10.3	50.3

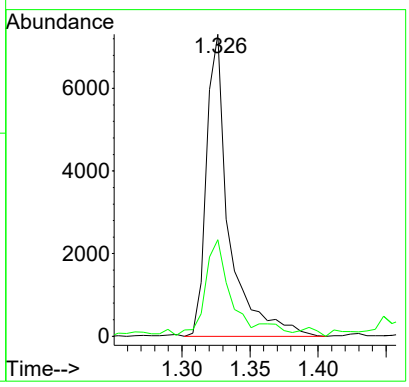


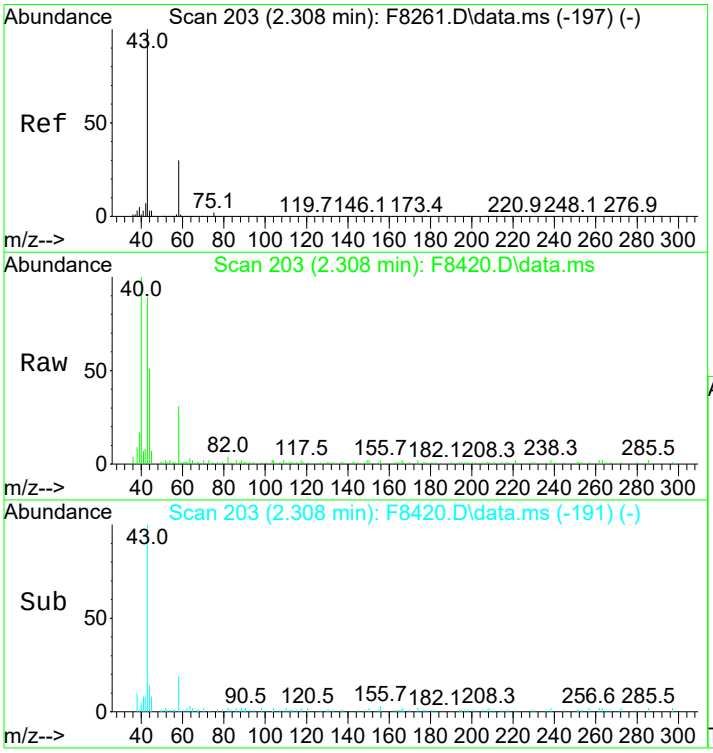


#5
Vinyl Chloride
Concen: 1.73 ug/L
RT: 1.326 min Scan# 42
Delta R.T. 0.000 min
Lab File: F8420.D
Acq: 25 Feb 2024 10:35 pm

Tgt Ion: 62 Resp: 8396

Ion	Ratio	Lower	Upper
62	100		
64	32.0	9.6	49.6

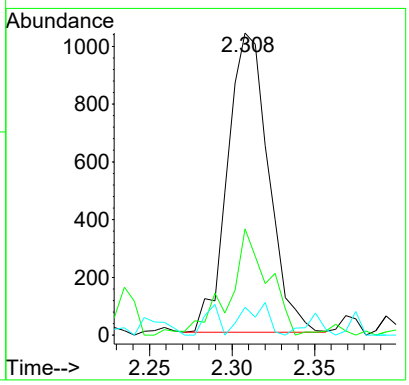


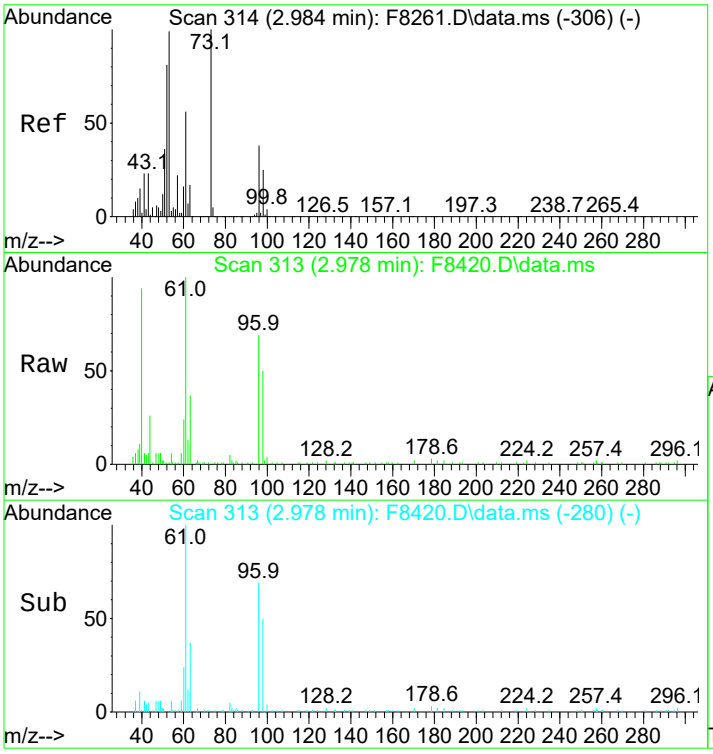


#16
Acetone
Concen: 0.75 ug/L
RT: 2.308 min Scan# 203
Delta R.T. 0.000 min
Lab File: F8420.D
Acq: 25 Feb 2024 10:35 pm

Tgt Ion: 43 Resp: 1788

Ion	Ratio	Lower	Upper
43	100		
58	35.2	10.0	50.0
42	9.2	0.0	27.2

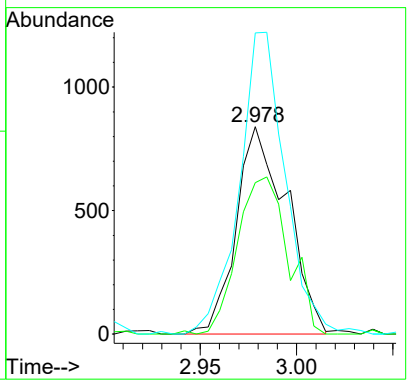


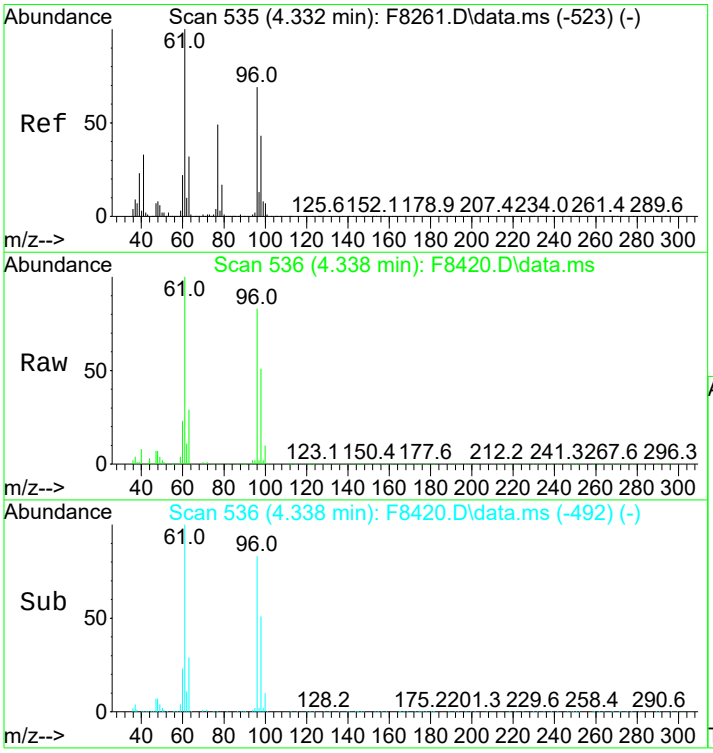


#27
trans-1,2-Dichloroethene
Concen: 0.45 ug/L
RT: 2.978 min Scan# 313
Delta R.T. -0.006 min
Lab File: F8420.D
Acq: 25 Feb 2024 10:35 pm

Tgt Ion: 96 Resp: 1535

Ion	Ratio	Lower	Upper
96	100		
98	75.6	45.9	85.9
61	145.2	128.4	168.4

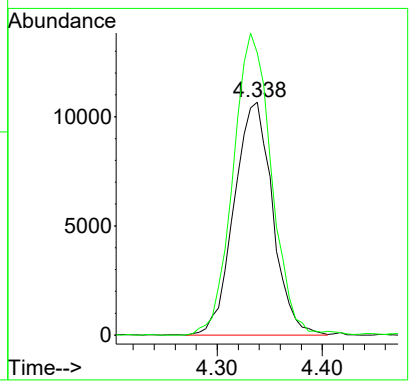


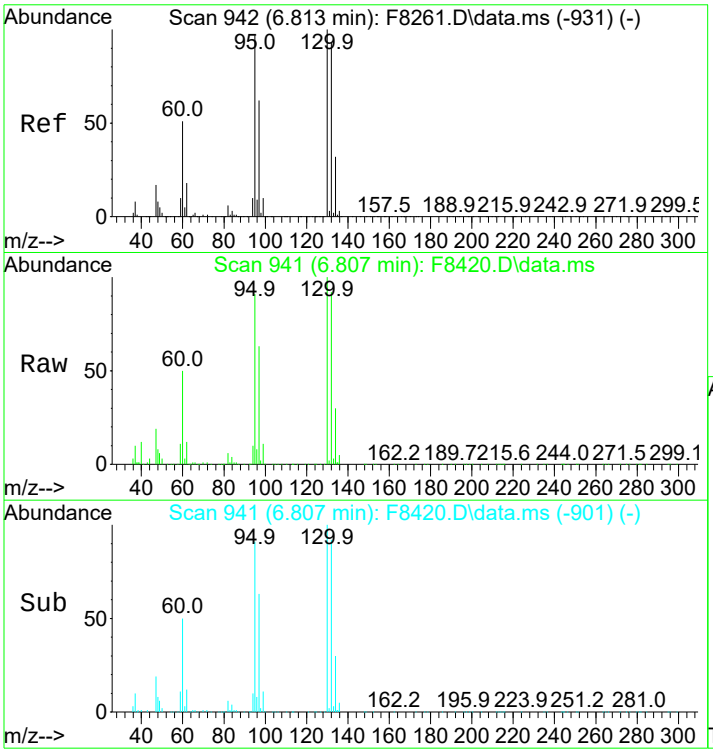


#34
cis-1,2-Dichloroethene
Concen: 6.63 ug/L
RT: 4.338 min Scan# 536
Delta R.T. 0.006 min
Lab File: F8420.D
Acq: 25 Feb 2024 10:35 pm

Tgt Ion: 96 Resp: 26986

Ion	Ratio	Lower	Upper
96	100		
61	121.2	124.5	164.5#

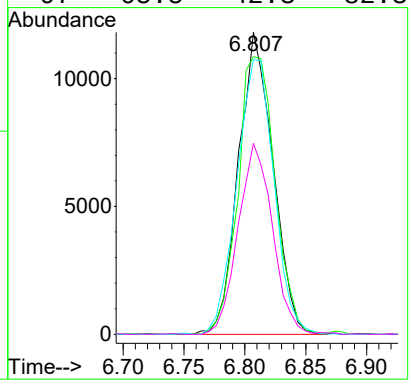




#54
Trichloroethene
Concen: 6.16 ug/L
RT: 6.807 min Scan# 941
Delta R.T. -0.006 min
Lab File: F8420.D
Acq: 25 Feb 2024 10:35 pm

Tgt Ion:130 Resp: 23374

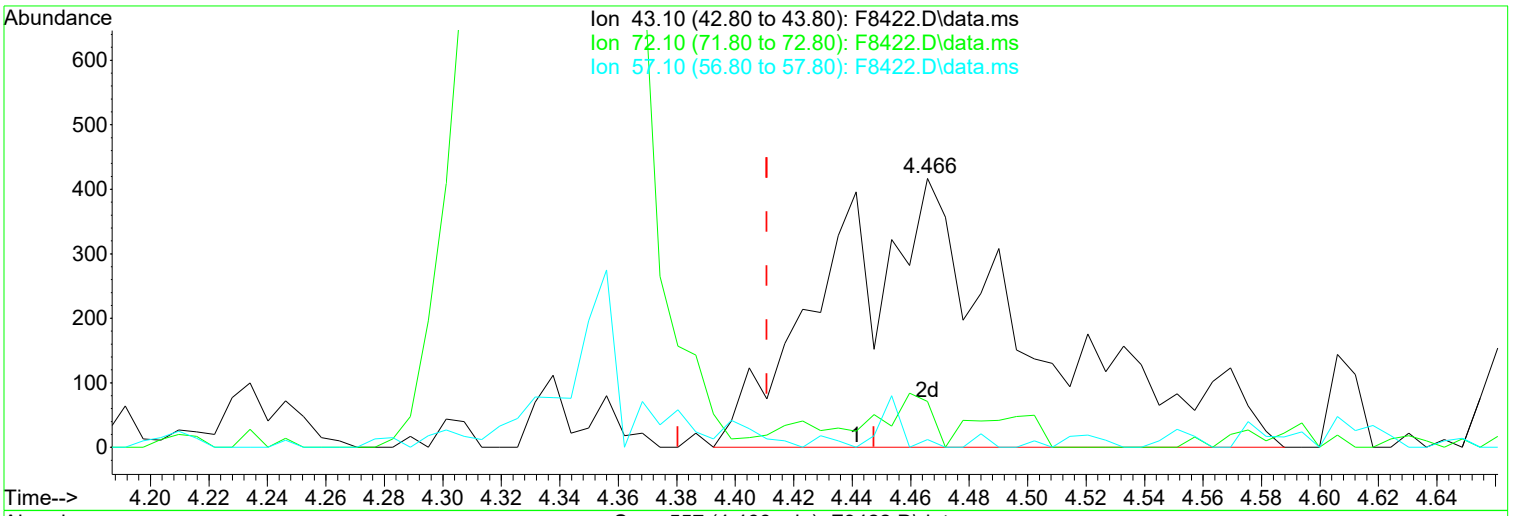
Ion	Ratio	Lower	Upper
130	100		
132	91.9	73.2	113.2
95	91.0	77.2	117.2
97	65.5	42.3	82.3

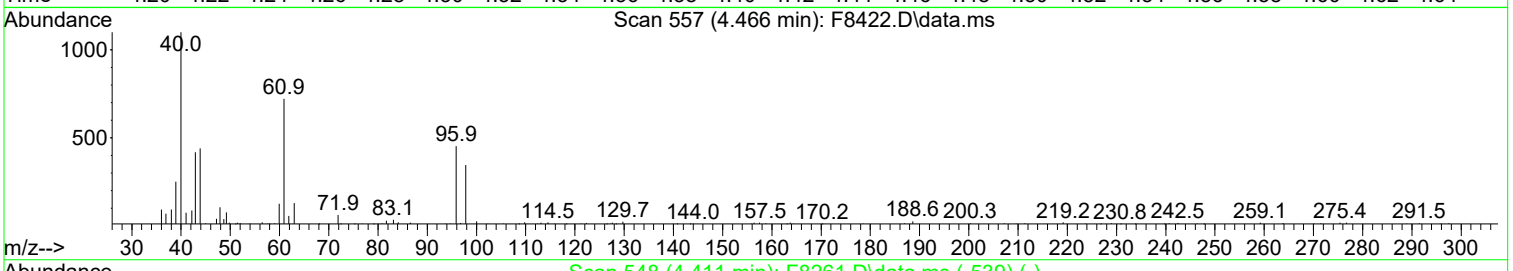


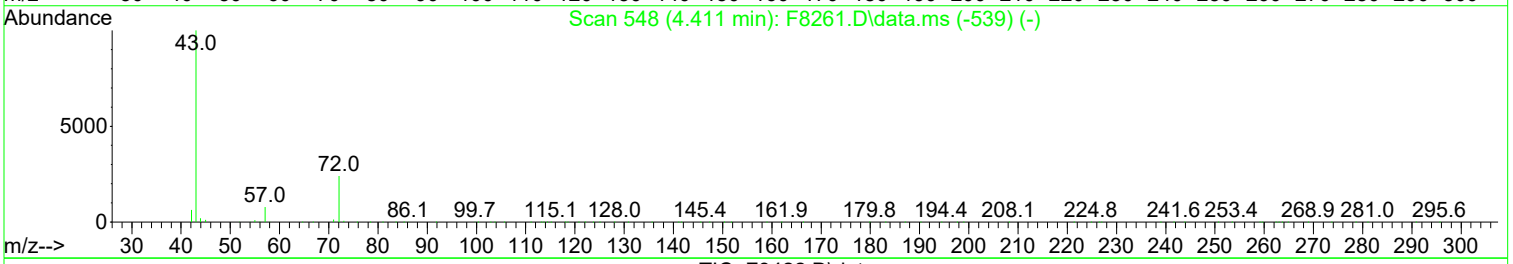
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8422.D
Acq On : 25 Feb 2024 11:20 pm
Operator : F.NAEGLER
Sample : R2401280-016
Misc : CEC 25499 T4
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Feb 26 09:06:21 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8422.D\data.ms

(35) 2-Butanone (P)

4.466min (+ 0.055) 0.64 ug/L m

response 1986

Ion	Exp%	Act%
43.10	100.00	100.00
72.10	24.50	14.63
57.10	7.80	2.88
0.00	0.00	0.00

Manual Integration:

After

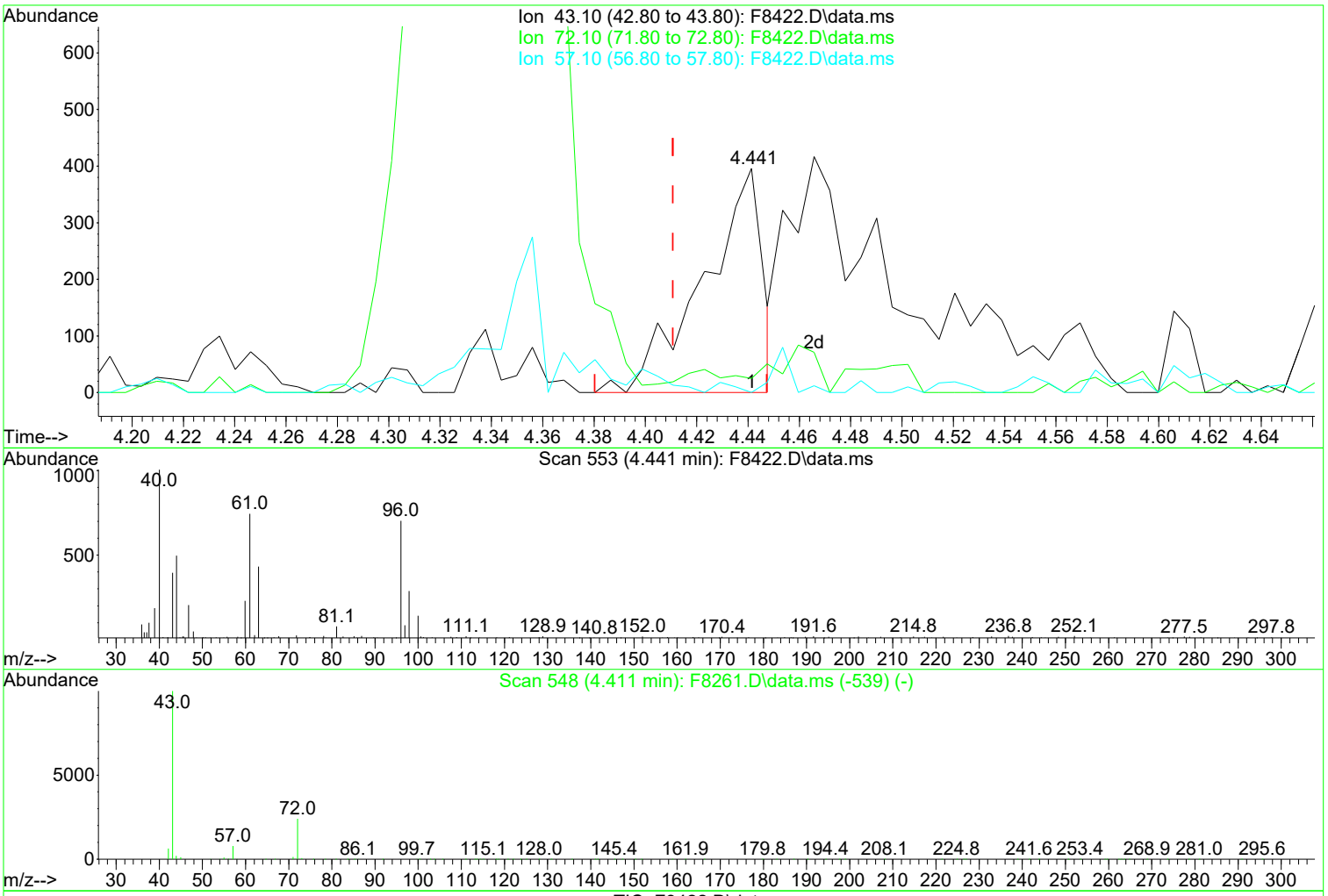
Poor integration.

02/27/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8422.D
Acq On : 25 Feb 2024 11:20 pm
Operator : F.NAEGLER
Sample : R2401280-016
Misc : CEC 25499 T4
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Feb 26 09:06:21 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



TIC: F8422.D\data.ms

(35) 2-Butanone (P)

4.441min (+ 0.030) 0.20 ug/L

response 630

Ion	Exp%	Act%
43.10	100.00	100.00
72.10	24.50	6.31
57.10	7.80	0.00
0.00	0.00	0.00

Manual Integration:

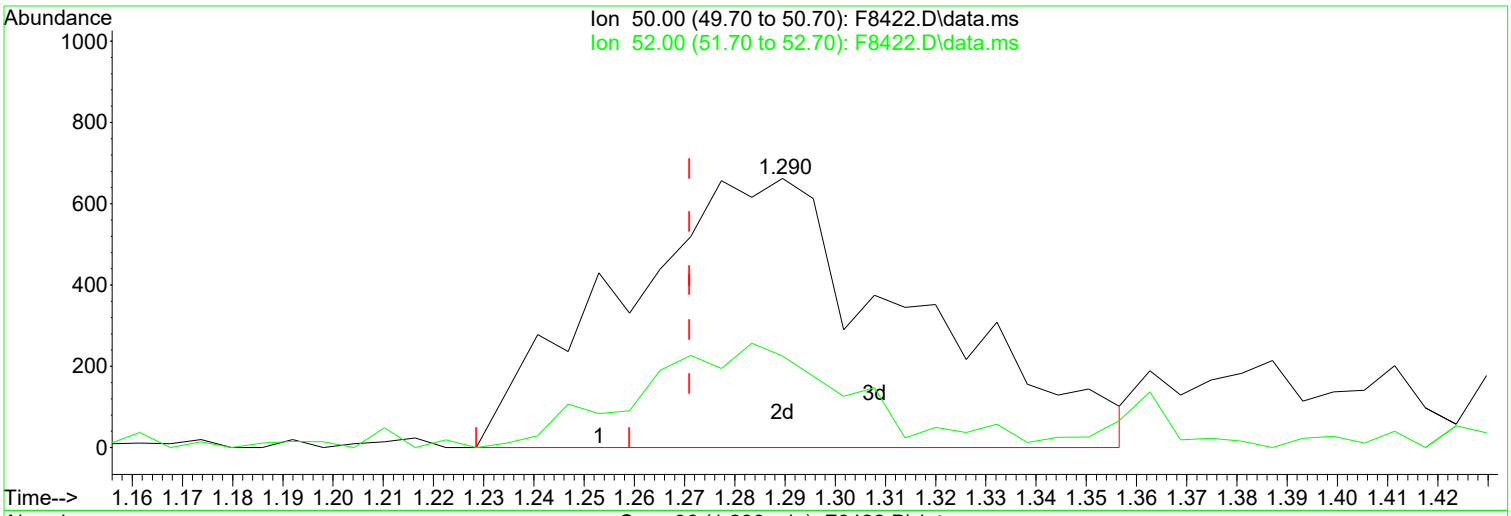
Before

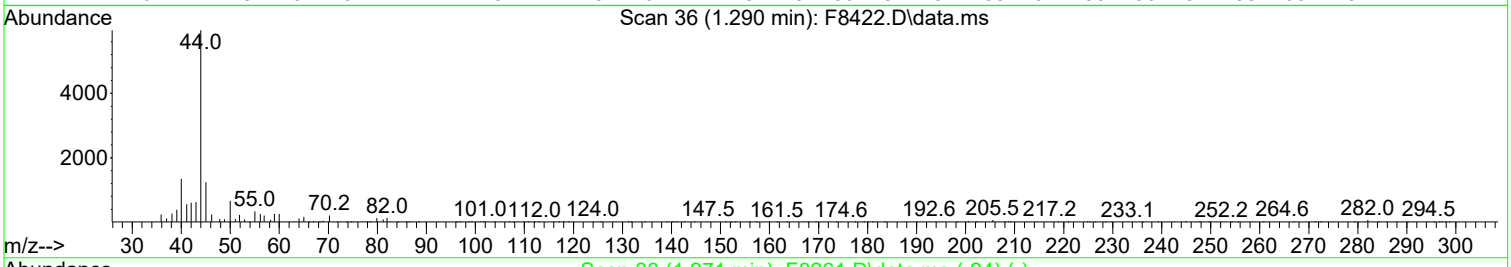
02/27/24

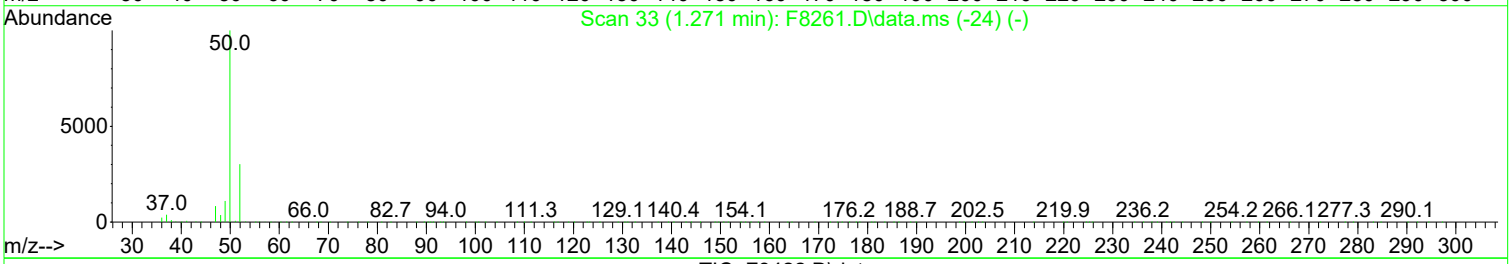
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8422.D
Acq On : 25 Feb 2024 11:20 pm
Operator : F.NAEGLER
Sample : R2401280-016
Misc : CEC 25499 T4
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Feb 26 09:06:21 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8422.D\data.ms

(4) Chloromethane (P)

1.290min (+ 0.019) 0.43 ug/L m

response 2684

Ion	Exp%	Act%
50.00	100.00	100.00
52.00	30.30	33.99
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

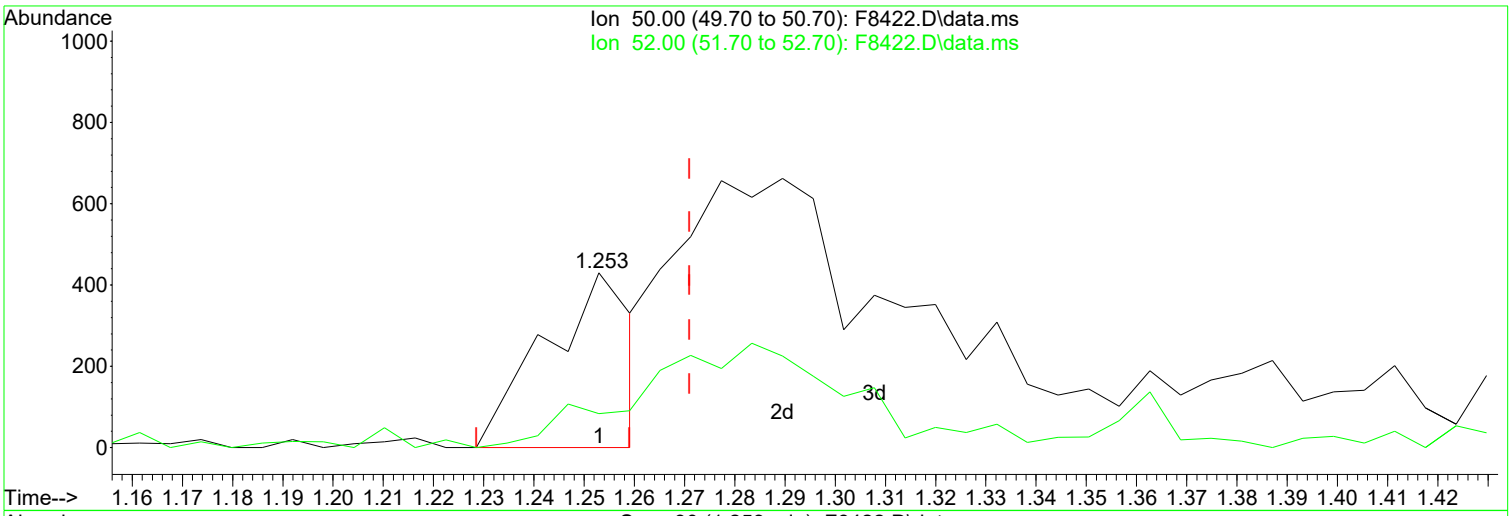
Poor integration.

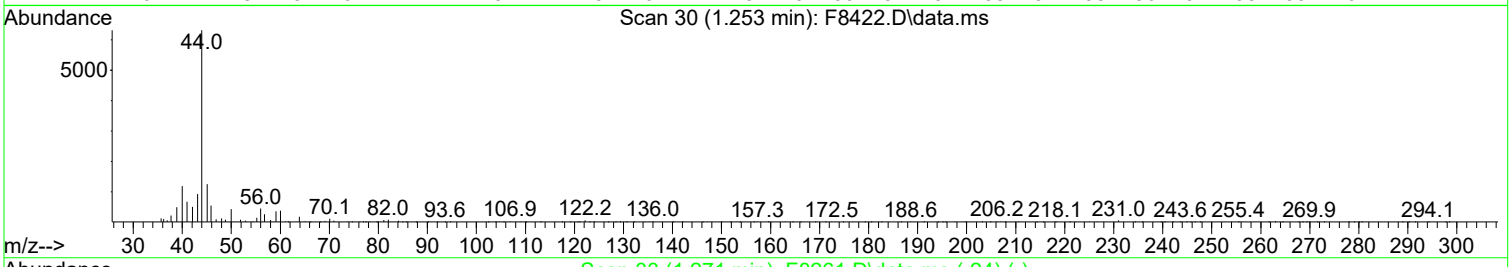
02/27/24

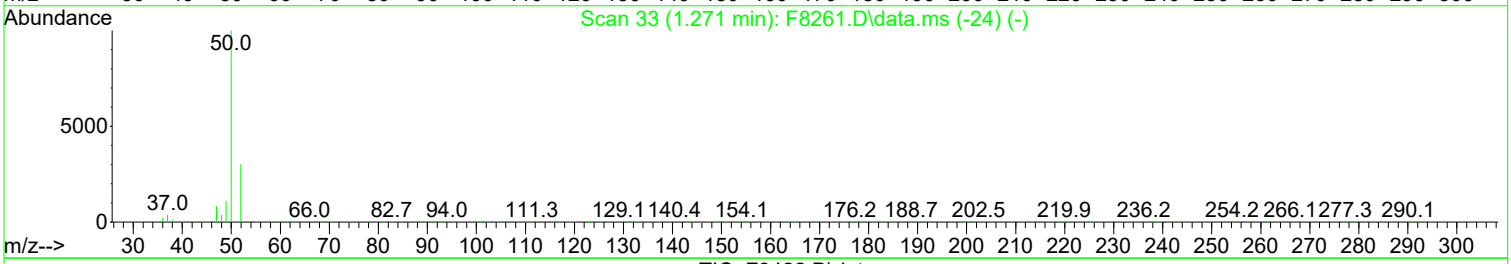
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8422.D
Acq On : 25 Feb 2024 11:20 pm
Operator : F.NAEGLER
Sample : R2401280-016
Misc : CEC 25499 T4
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Feb 26 09:06:21 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8422.D\data.ms

(4) Chloromethane (P)

1.253min (-0.018) -1.00 ug/L

response 517

Ion	Exp%	Act%
50.00	100.00	100.00
52.00	30.30	19.53
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

02/27/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8422.D
Acq On : 25 Feb 2024 11:20 pm
Operator : F.NAEGLER
Sample : R2401280-016
Misc : CEC 25499 T4
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Feb 26 09:06:21 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

RPT 1/5

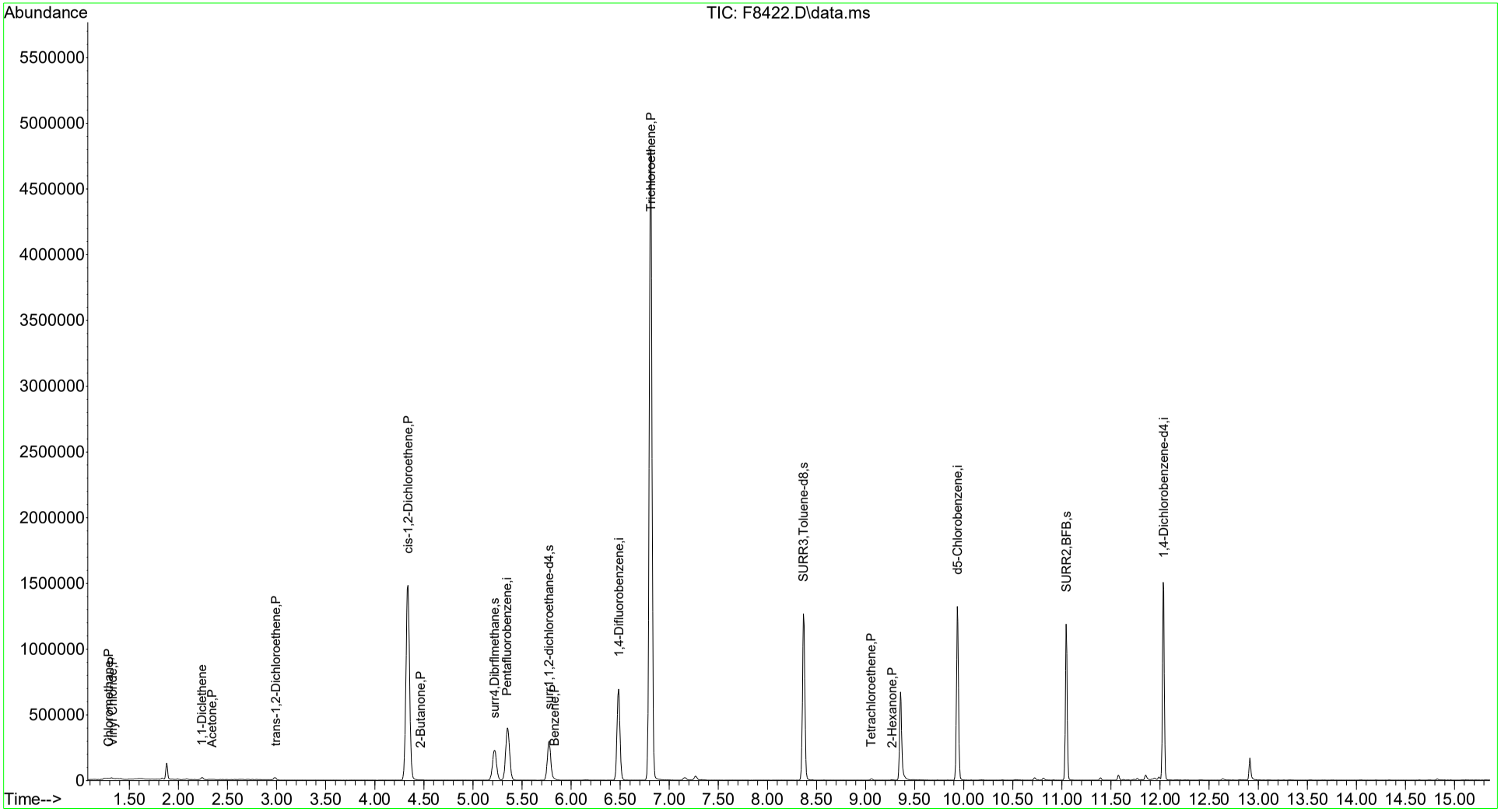
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	5.350	168	385602	50.00	ug/L	0.00	
43) 1,4-Difluorobenzene	6.484	114	617590	50.00	ug/L	0.00	
71) d5-Chlorobenzene	9.934	117	594333	50.00	ug/L	0.00	
91) 1,4-Dichlorobenzene-d4	12.037	152	300781	50.00	ug/L	0.00	
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.222	113	193831	48.95	ug/L	0.00	
Spiked Amount 50.000	Range 80 - 116		Recovery = 97.90%				
48) surr1,1,2-dichloroetha...	5.776	65	261673	50.36	ug/L	0.00	
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.72%				
65) SURR3,Toluene-d8	8.367	98	791461	49.15	ug/L	0.00	
Spiked Amount 50.000	Range 87 - 121		Recovery = 98.30%				
70) SURR2,BFB	11.044	95	283812	46.40	ug/L	0.00	
Spiked Amount 50.000	Range 85 - 122		Recovery = 92.80%				
Target Compounds						Qvalue	
4) Chloromethane	1.290	50	2684m	0.428	ug/L		
5) Vinyl Chloride	1.326	62	953	0.204	ug/L	66	
14) 1,1-Diclethene	2.241	96	4111	1.490	ug/L #	81	
16) Acetone	2.338	43	2795	1.222	ug/L	85	
27) trans-1,2-Dichloroethene	2.990	96	5750	1.737	ug/L	91	
34) cis-1,2-Dichloroethene	4.338	96	835206	212.668	ug/L	93	E-Over Calibration
35) 2-Butanone	4.466	43	1986m	0.639	ug/L		
49) Benzene	5.825	78	7424	0.538	ug/L #	62	
54) Trichloroethene	6.813	130	1675998	452.818	ug/L	98	E-Over Calibration
72) Tetrachloroethene	9.056	164	2040	0.721	ug/L	97	
73) 2-Hexanone	9.270	43	2526	0.548	ug/L	98	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

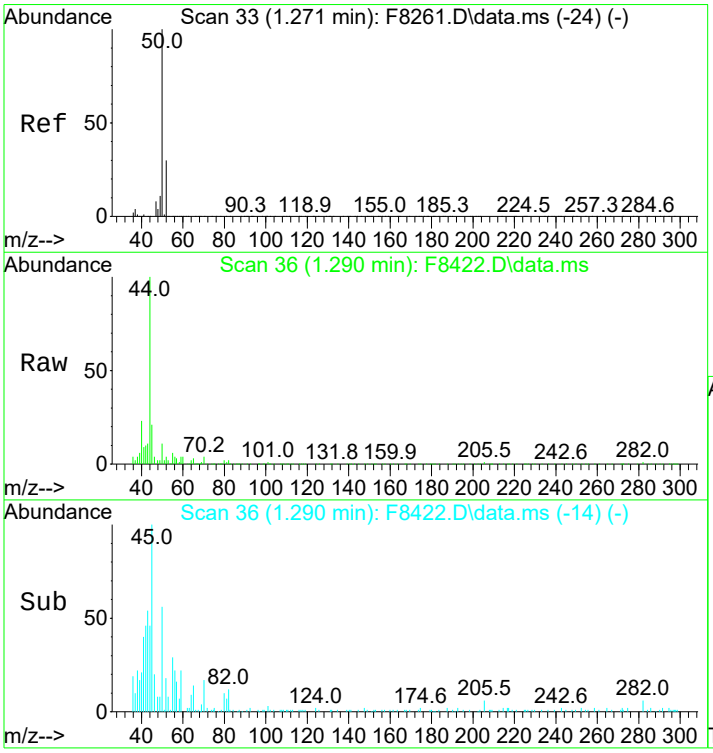
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8422.D
Acq On : 25 Feb 2024 11:20 pm
Operator : F.NAEGLER
Sample : R2401280-016
Misc : CEC 25499 T4
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Feb 26 09:06:21 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



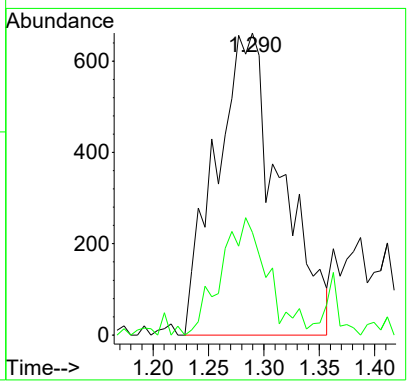
1st FJ 02/27/24
2nd AM 02/28/24

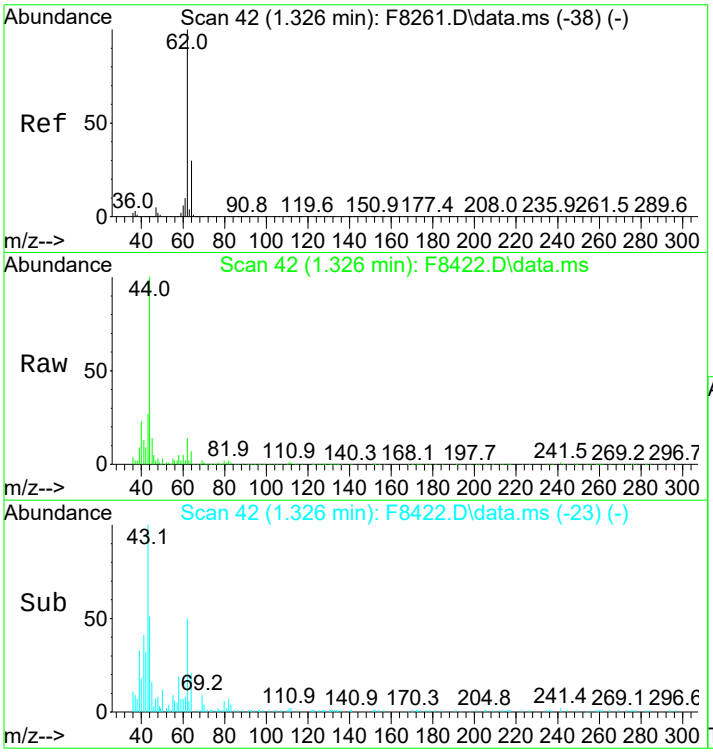


#4
Chloromethane
Concen: 0.43 ug/L m
RT: 1.290 min Scan# 36
Delta R.T. 0.019 min
Lab File: F8422.D
Acq: 25 Feb 2024 11:20 pm

Tgt Ion: 50 Resp: 2684

Ion	Ratio	Lower	Upper
50	100		
52	34.0	10.3	50.3

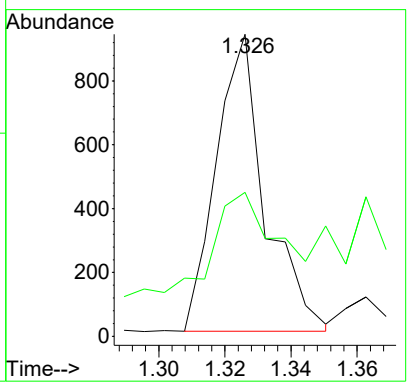


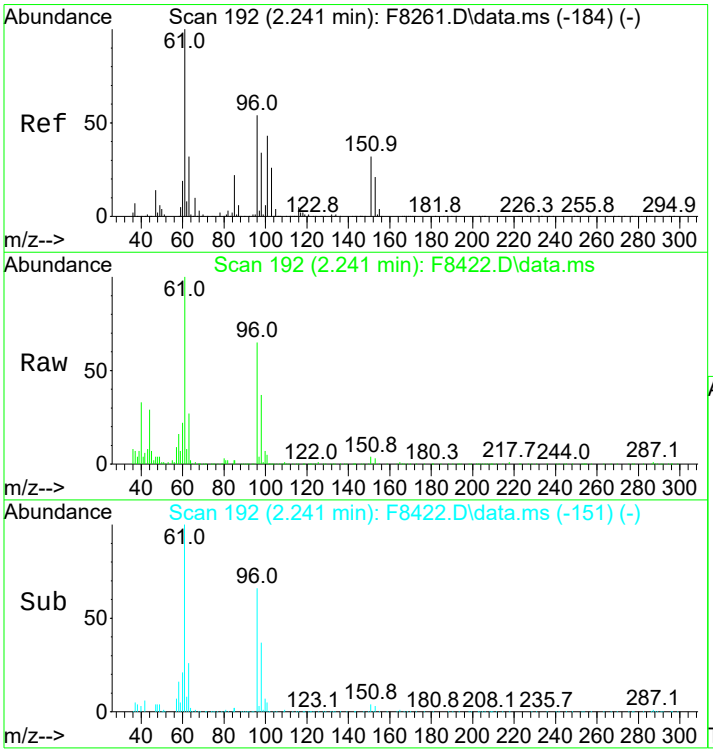


#5
Vinyl Chloride
Concen: 0.20 ug/L
RT: 1.326 min Scan# 42
Delta R.T. -0.000 min
Lab File: F8422.D
Acq: 25 Feb 2024 11:20 pm

Tgt Ion: 62 Resp: 953

Ion	Ratio	Lower	Upper
62	100		
64	47.7	9.6	49.6

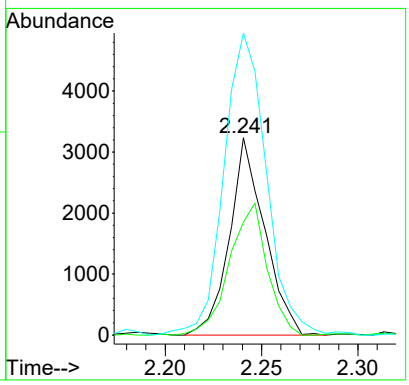


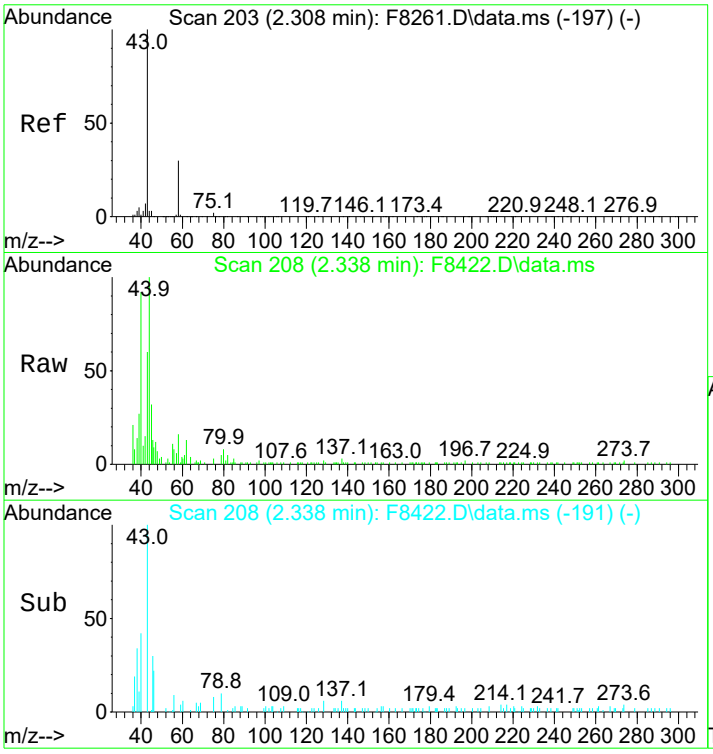


#14
1,1-Diclethene
Concen: 1.49 ug/L
RT: 2.241 min Scan# 192
Delta R.T. -0.000 min
Lab File: F8422.D
Acq: 25 Feb 2024 11:20 pm

Tgt Ion: 96 Resp: 4111

Ion	Ratio	Lower	Upper
96	100		
98	57.1	43.9	83.9
61	152.9	165.5	205.5#

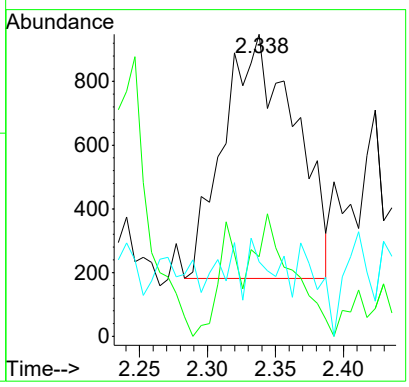


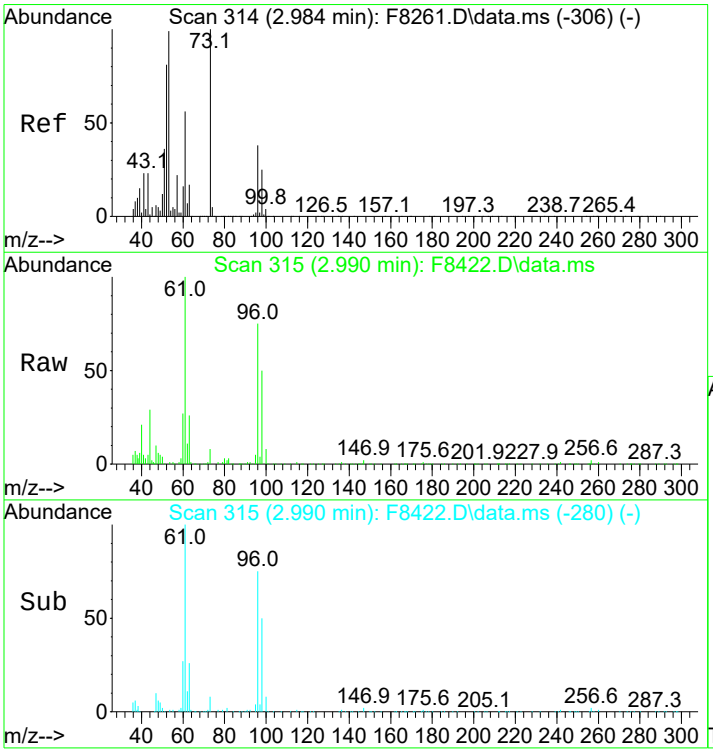


#16
Acetone
Concen: 1.22 ug/L
RT: 2.338 min Scan# 208
Delta R.T. 0.030 min
Lab File: F8422.D
Acq: 25 Feb 2024 11:20 pm

Tgt Ion: 43 Resp: 2795

Ion	Ratio	Lower	Upper
43	100		
58	26.4	10.0	50.0
42	24.7	0.0	27.2

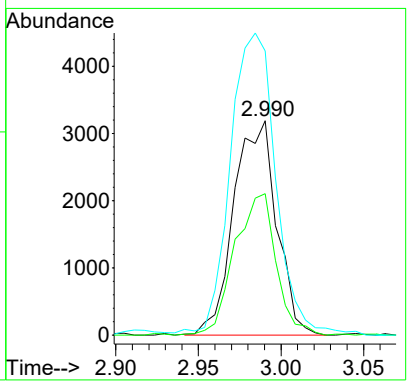


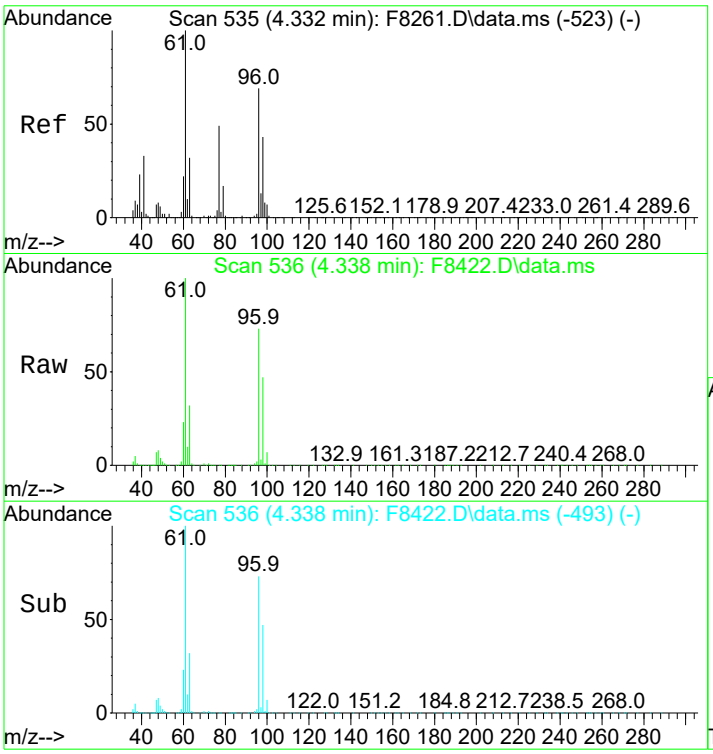


#27
trans-1,2-Dichloroethene
Concen: 1.74 ug/L
RT: 2.990 min Scan# 315
Delta R.T. 0.006 min
Lab File: F8422.D
Acq: 25 Feb 2024 11:20 pm

Tgt Ion: 96 Resp: 5750

Ion	Ratio	Lower	Upper
96	100		
98	65.9	45.9	85.9
61	132.5	128.4	168.4

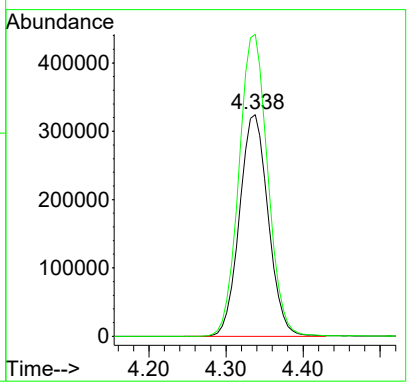


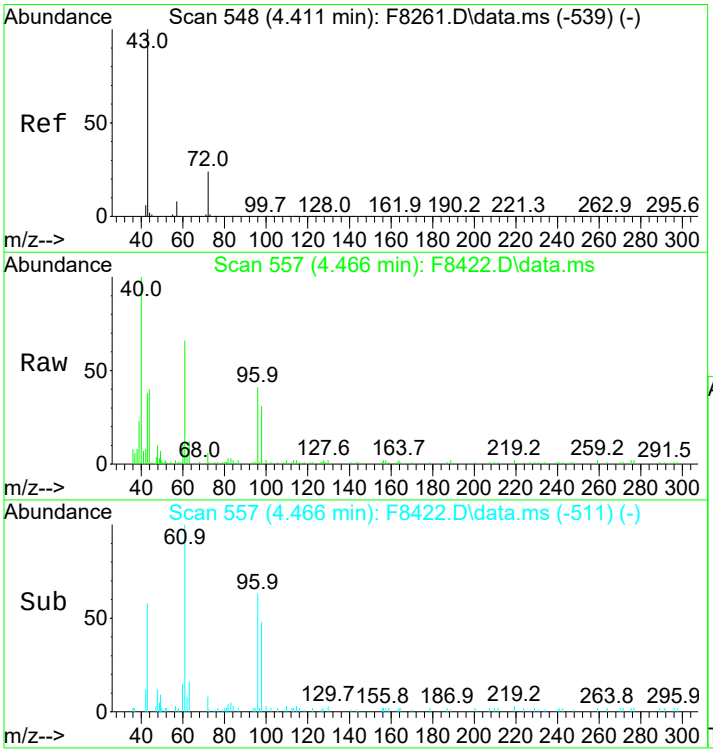


#34
cis-1,2-Dichloroethene
Concen: 212.67 ug/L
RT: 4.338 min Scan# 536
Delta R.T. 0.006 min
Lab File: F8422.D
Acq: 25 Feb 2024 11:20 pm

Tgt Ion: 96 Resp: 835206

Ion	Ratio	Lower	Upper
96	100		
61	136.2	124.5	164.5

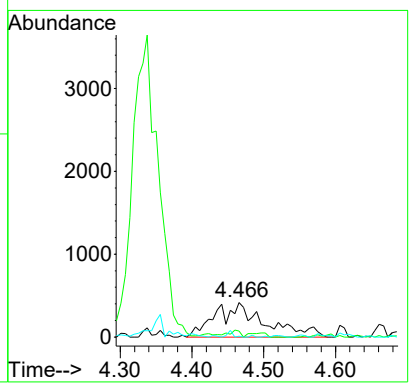


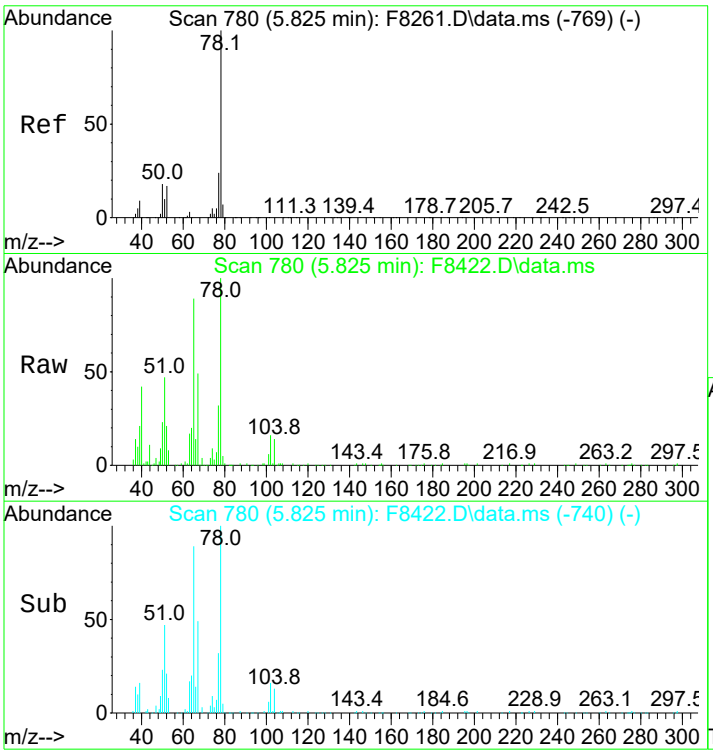


#35
2-Butanone
Concen: 0.64 ug/L m
RT: 4.466 min Scan# 557
Delta R.T. 0.055 min
Lab File: F8422.D
Acq: 25 Feb 2024 11:20 pm

Tgt Ion: 43 Resp: 1986

Ion	Ratio	Lower	Upper
43	100		
72	14.6	4.5	44.5
57	2.9	0.0	27.8

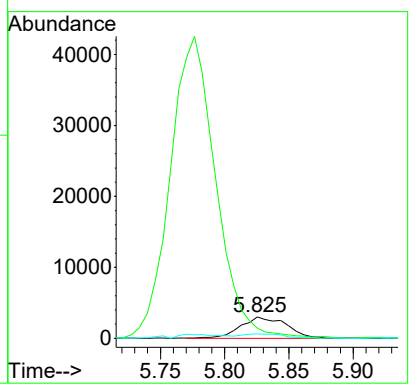


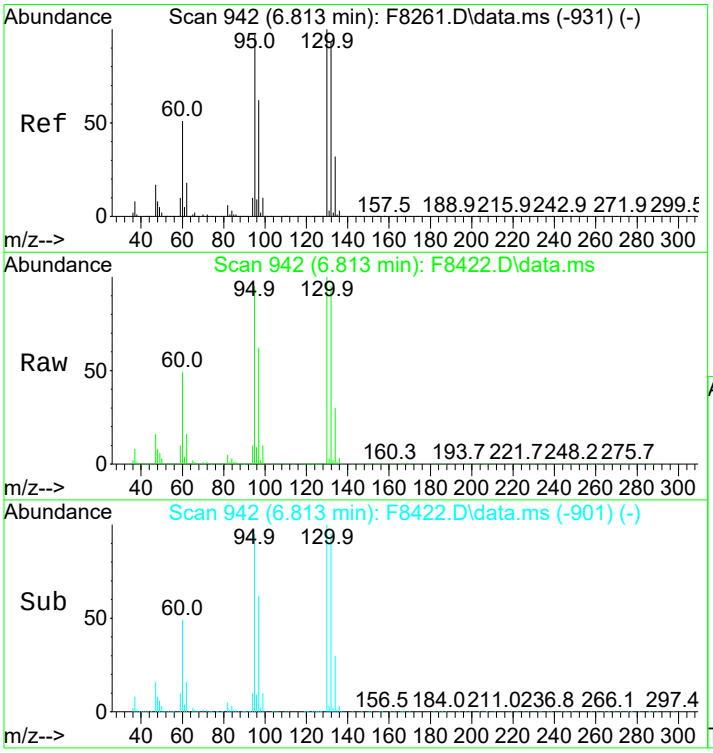


#49
Benzene
Concen: 0.54 ug/L
RT: 5.825 min Scan# 780
Delta R.T. -0.000 min
Lab File: F8422.D
Acq: 25 Feb 2024 11:20 pm

Tgt Ion: 78 Resp: 7424

Ion	Ratio	Lower	Upper
78	100		
51	47.2	0.0	38.9#
52	20.9	0.0	36.8

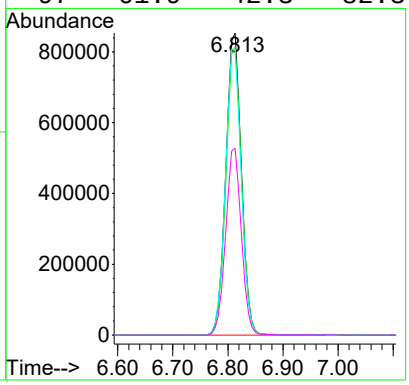


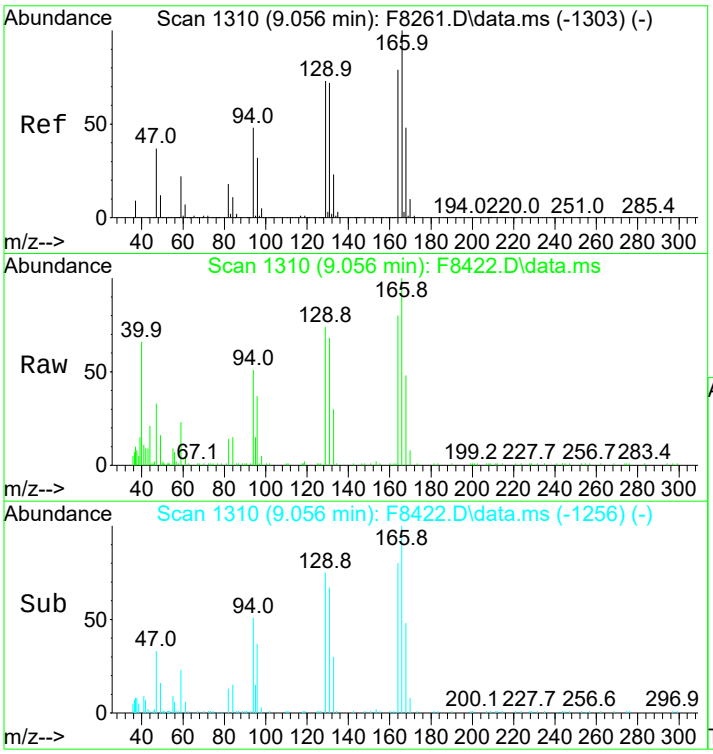


#54
Trichloroethene
Concen: 452.82 ug/L
RT: 6.813 min Scan# 942
Delta R.T. -0.000 min
Lab File: F8422.D
Acq: 25 Feb 2024 11:20 pm

Tgt Ion:130 Resp: 1675998

Ion	Ratio	Lower	Upper
130	100		
132	95.4	73.2	113.2
95	94.6	77.2	117.2
97	61.9	42.3	82.3

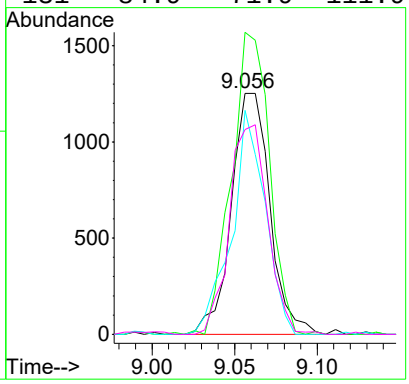


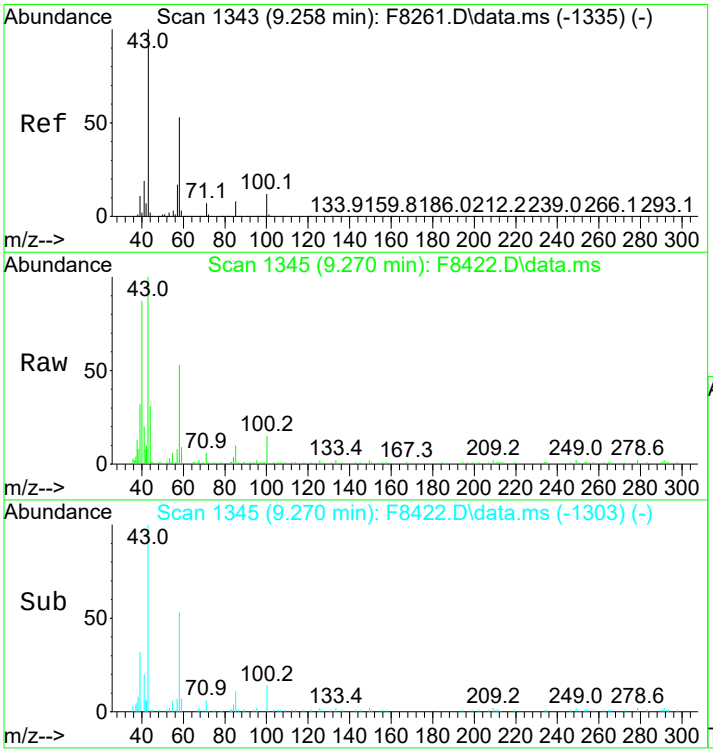


#72
Tetrachloroethene
Concen: 0.72 ug/L
RT: 9.056 min Scan# 1310
Delta R.T. -0.000 min
Lab File: F8422.D
Acq: 25 Feb 2024 11:20 pm

Tgt Ion:164 Resp: 2040

Ion	Ratio	Lower	Upper
164	100		
166	125.3	107.3	147.3
129	92.9	73.1	113.1
131	84.9	71.9	111.9

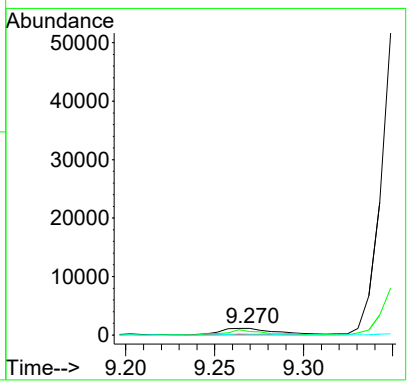




#73
2-Hexanone
Concen: 0.55 ug/L
RT: 9.270 min Scan# 1345
Delta R.T. 0.012 min
Lab File: F8422.D
Acq: 25 Feb 2024 11:20 pm

Tgt Ion: 43 Resp: 2526

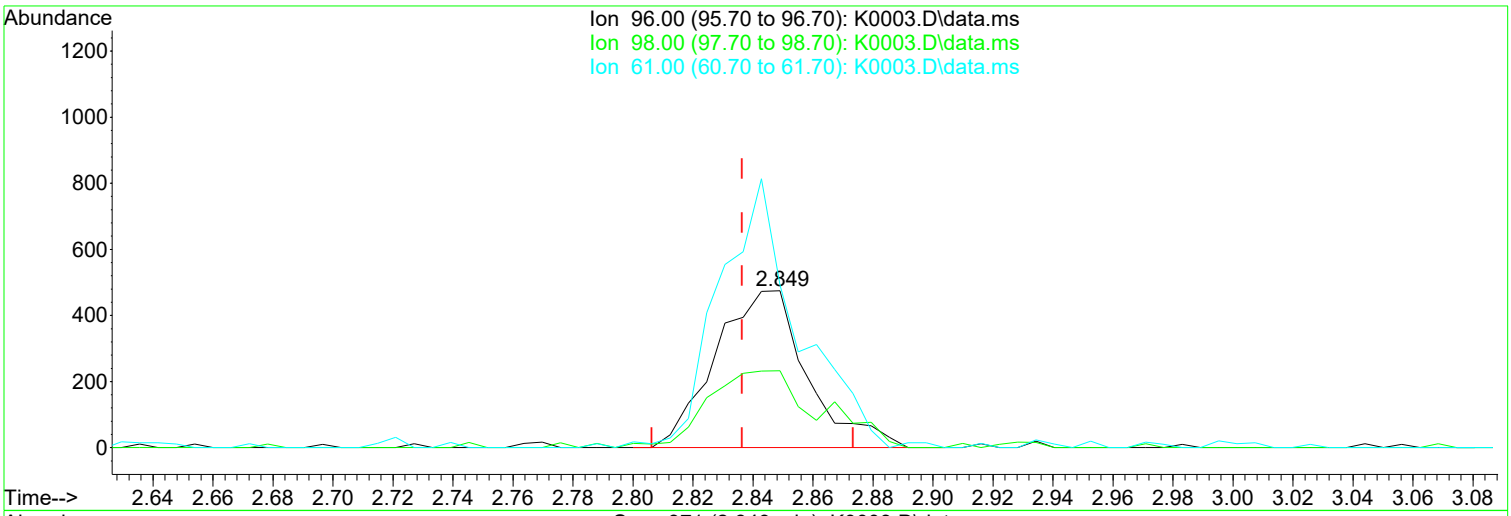
Ion	Ratio	Lower	Upper
43	100		
58	53.0	32.7	72.7
100	15.2	0.0	32.1

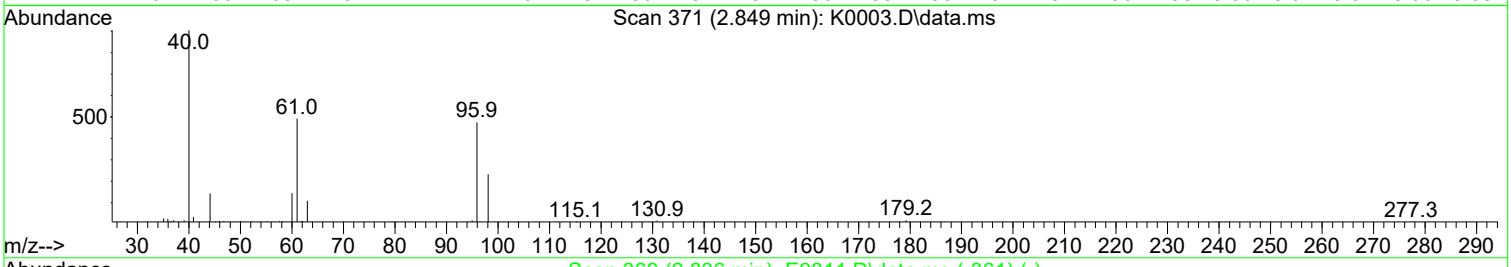


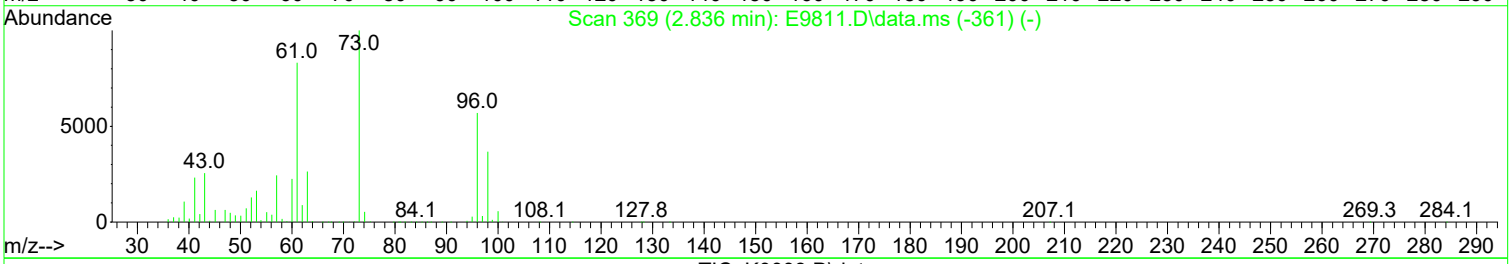
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : K0003.D
Acq On : 26 Feb 2024 05:54 pm
Operator : F.NAEGLER
Sample : R2401280-016|5.0
Misc : CEC 25499 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 27 08:19:54 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration







TIC: K0003.D\data.ms

(27) trans-1,2-Dichloroethene (P)

2.849min (+ 0.013) 0.27 ug/L m

response 1012

Ion	Exp%	Act%
96.00	100.00	100.00
98.00	64.50	49.05
61.00	146.00	103.58#
0.00	0.00	0.00

Manual Integration:

After

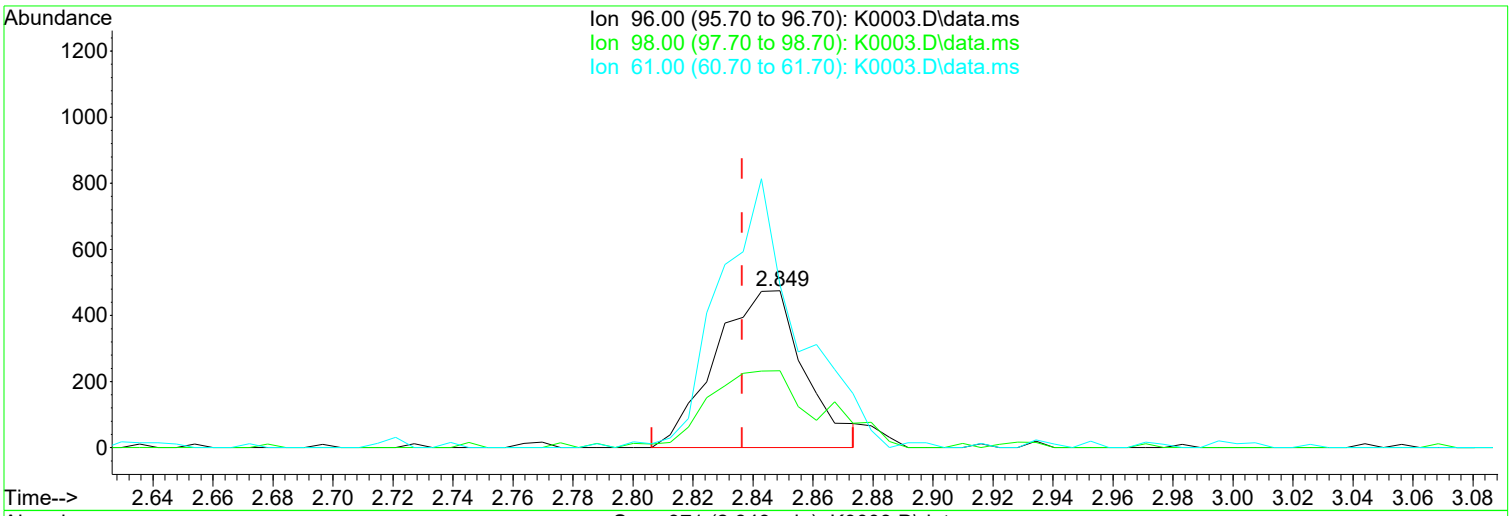
Poor integration.

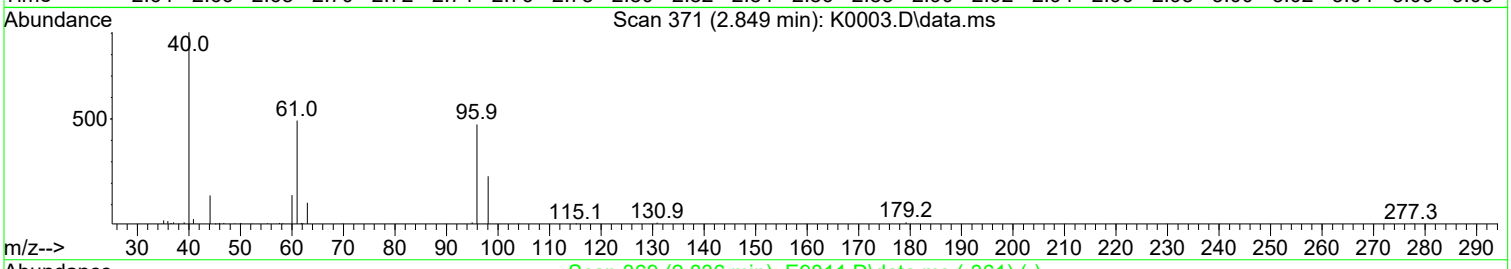
02/27/24

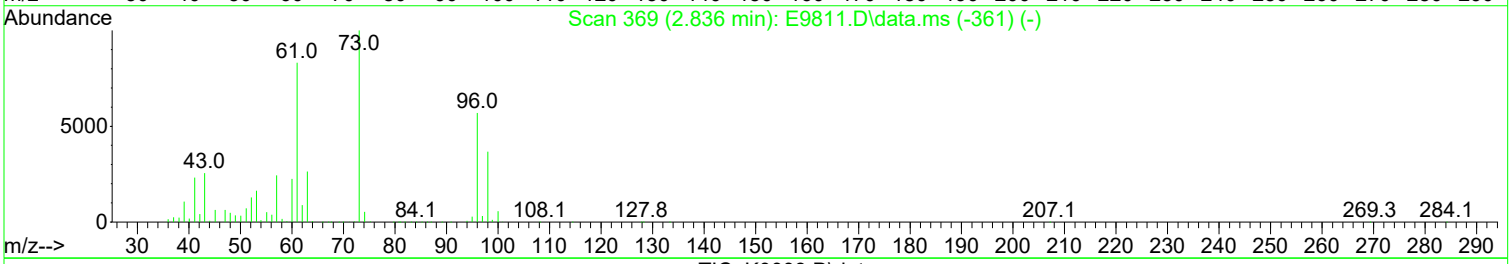
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : K0003.D
Acq On : 26 Feb 2024 05:54 pm
Operator : F.NAEGLER
Sample : R2401280-016|5.0
Misc : CEC 25499 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 27 08:19:54 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration







TIC: K0003.D\data.ms

(27) trans-1,2-Dichloroethene (P)

2.849min (+ 0.013) 0.26 ug/L

response 976

Ion	Exp%	Act%
96.00	100.00	100.00
98.00	64.50	49.05
61.00	146.00	103.58#
0.00	0.00	0.00

Manual Integration:

Before

02/27/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : K0003.D
Acq On : 26 Feb 2024 05:54 pm
Operator : F.NAEGLER
Sample : R2401280-016|5.0
Misc : CEC 25499 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 27 08:19:54 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration

DL

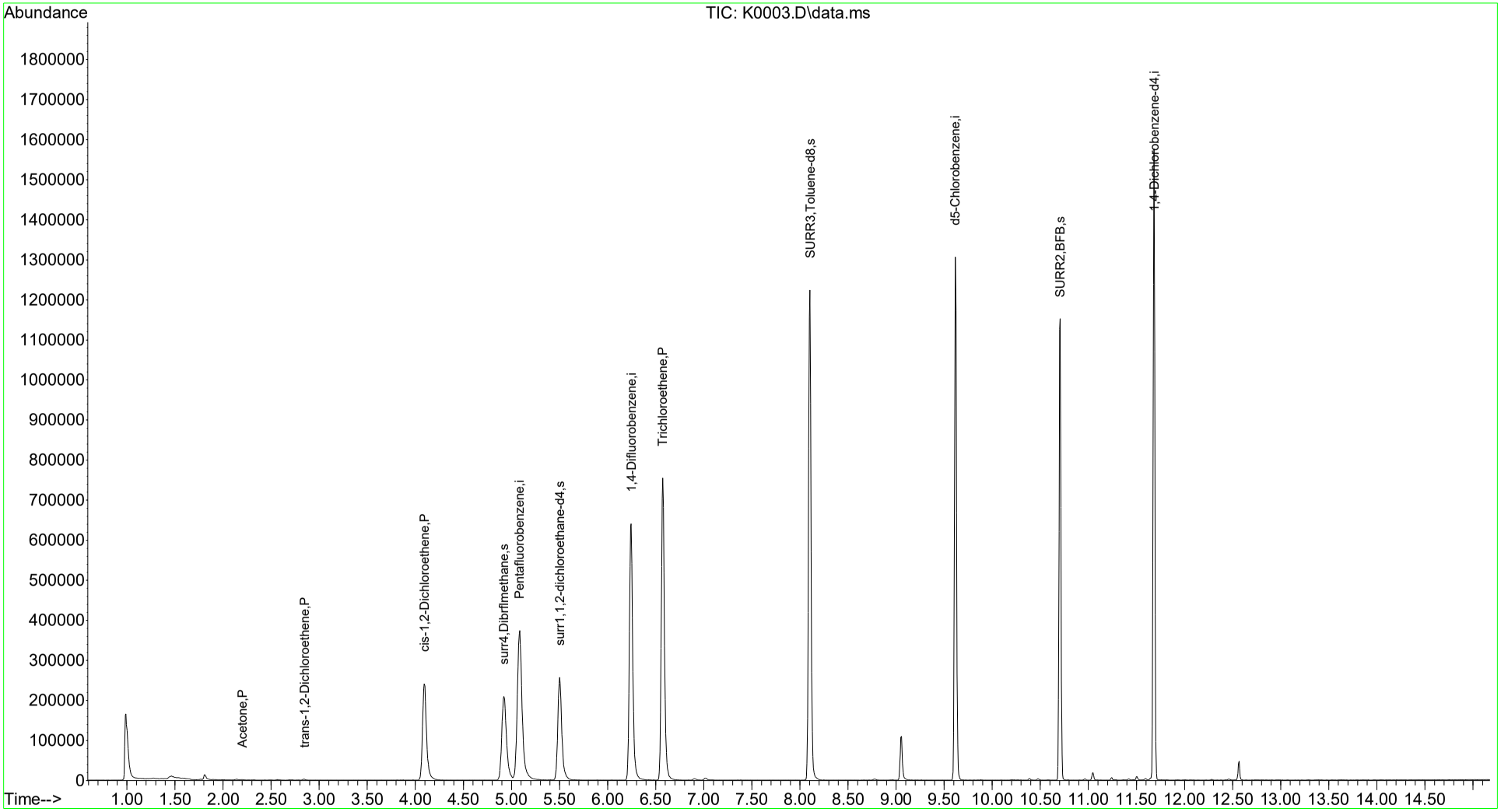
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.086	168	447521	50.00 ug/L	0.00
43) 1,4-Difluorobenzene	6.245	114	670997	50.00 ug/L	0.00
71) d5-Chlorobenzene	9.616	117	602747	50.00 ug/L	0.00
91) 1,4-Dichlorobenzene-d4	11.683	152	295648	50.00 ug/L	0.00
System Monitoring Compounds					
45) surr4,Dibrflmethane	4.922	113	217866	50.09 ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 100.18%		
48) surr1,1,2-dichloroetha...	5.501	65	273182	52.38 ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 104.76%		
65) SURR3,Toluene-d8	8.104	98	798990	51.00 ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.00%		
70) SURR2,BFB	10.701	95	307096	51.23 ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.46%		
Target Compounds					Qvalue
10) Diethyl Ether	1.971	59	289	Below Cal #	48
16) Acetone	2.197	43	1088	0.520 ug/L	92
23) Methylene Chloride	2.562	84	562	Below Cal	92
27) trans-1,2-Dichloroethene	2.849	96	1012m	0.271 ug/L	
34) cis-1,2-Dichloroethene	4.093	96	161669	39.002 ug/L	90
54) Trichloroethene	6.574	130	314310	71.645 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

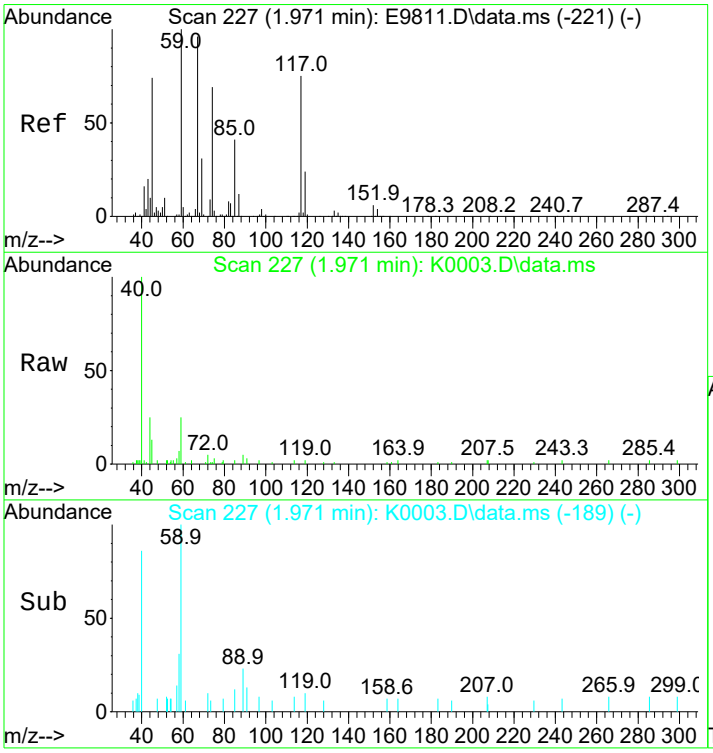
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : K0003.D
Acq On : 26 Feb 2024 05:54 pm
Operator : F.NAEGLER
Sample : R2401280-016|5.0
Misc : CEC 25499 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 27 08:19:54 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration



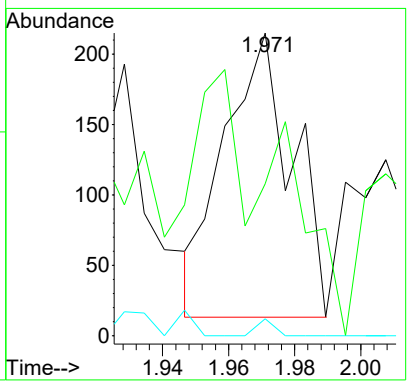
1st FJ 02/27/24
2nd AM 02/28/24

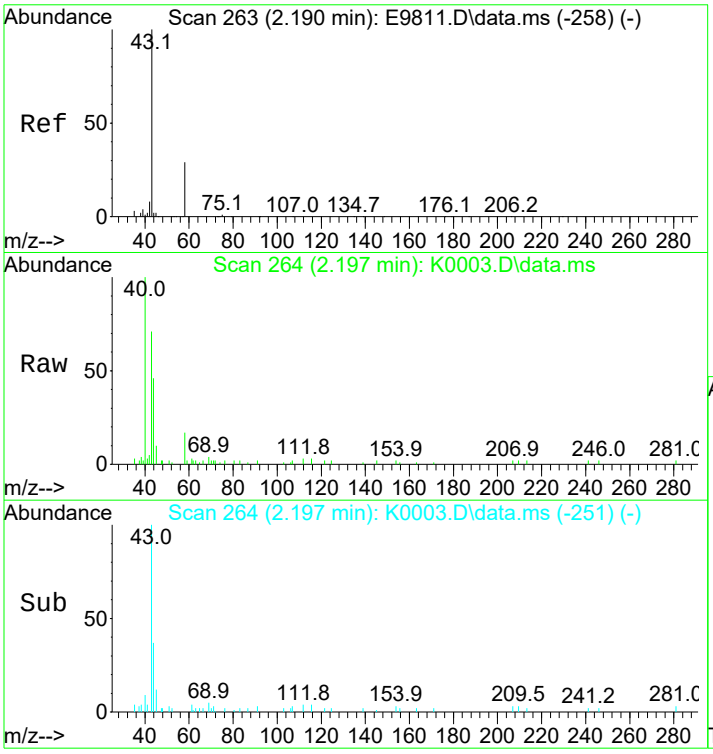


#10
Diethyl Ether
Concen: Below Cal
RT: 1.971 min Scan# 227
Delta R.T. 0.001 min
Lab File: K0003.D
Acq: 26 Feb 2024 05:54 pm

Tgt Ion: 59 Resp: 289

Ion	Ratio	Lower	Upper
59	100		
45	50.2	54.3	94.3#
74	5.6	48.9	88.9#

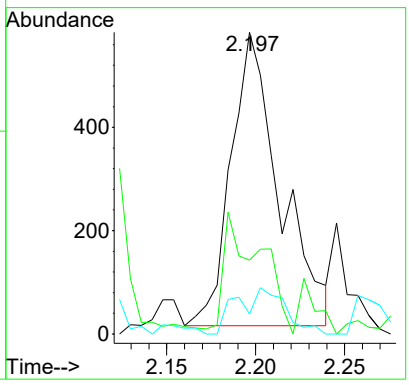


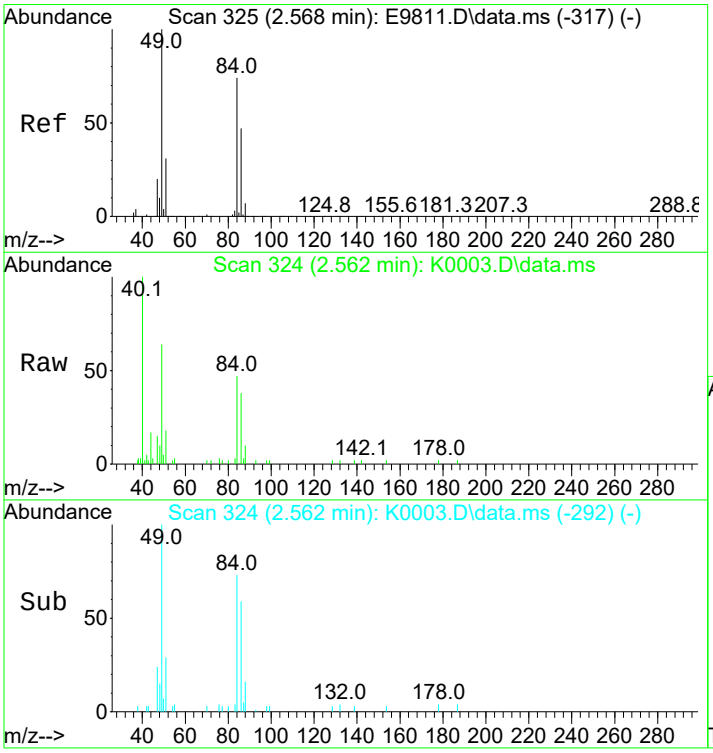


#16
Acetone
Concen: 0.52 ug/L
RT: 2.197 min Scan# 264
Delta R.T. 0.006 min
Lab File: K0003.D
Acq: 26 Feb 2024 05:54 pm

Tgt Ion: 43 Resp: 1088

Ion	Ratio	Lower	Upper
43	100		
58	24.5	9.3	49.3
42	6.7	0.0	27.8

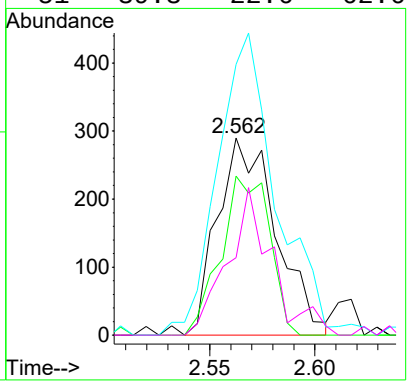


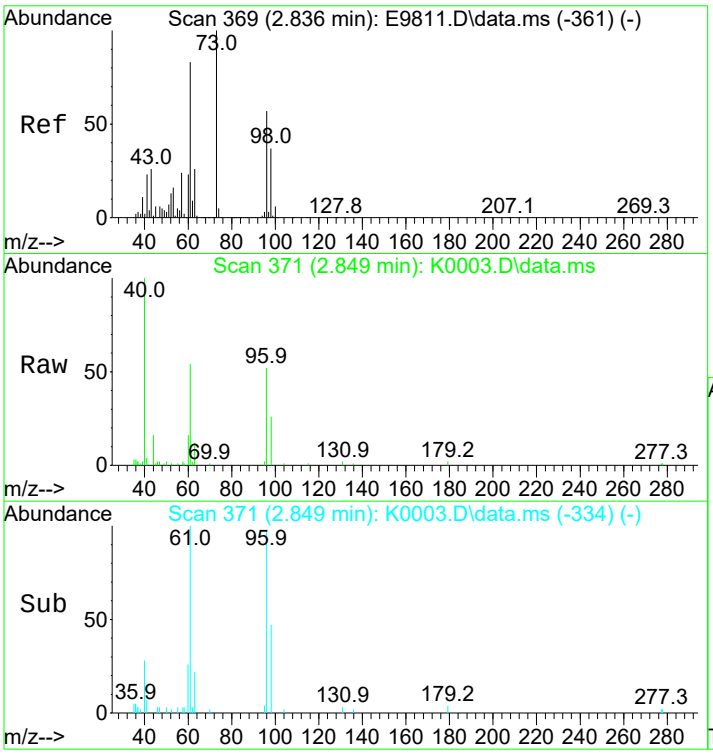


#23
Methylene Chloride
Concen: Below Cal
RT: 2.562 min Scan# 324
Delta R.T. -0.006 min
Lab File: K0003.D
Acq: 26 Feb 2024 05:54 pm

Tgt Ion: 84 Resp: 562

Ion	Ratio	Lower	Upper
84	100		
86	80.7	43.3	83.3
49	137.2	115.4	155.4
51	39.3	22.6	62.6

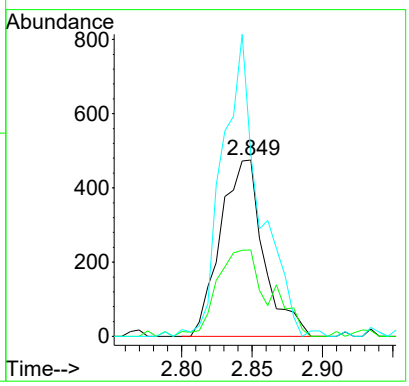


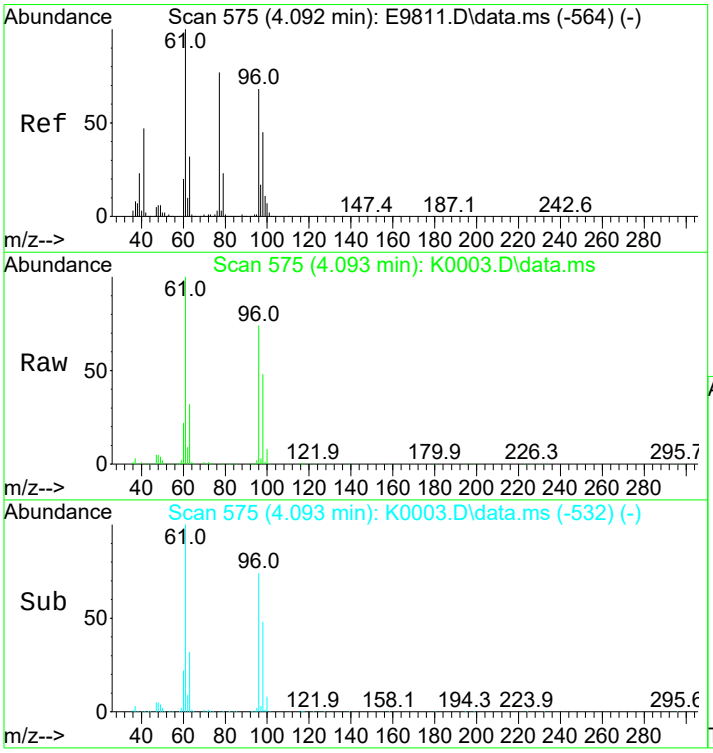


#27
trans-1,2-Dichloroethene
Concen: 0.27 ug/L m
RT: 2.849 min Scan# 371
Delta R.T. 0.013 min
Lab File: K0003.D
Acq: 26 Feb 2024 05:54 pm

Tgt Ion: 96 Resp: 1012

Ion	Ratio	Lower	Upper
96	100		
98	49.1	44.5	84.5
61	103.6	126.0	166.0#

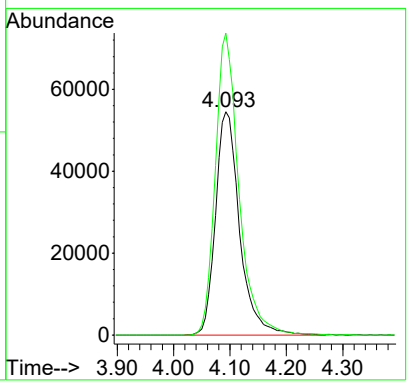


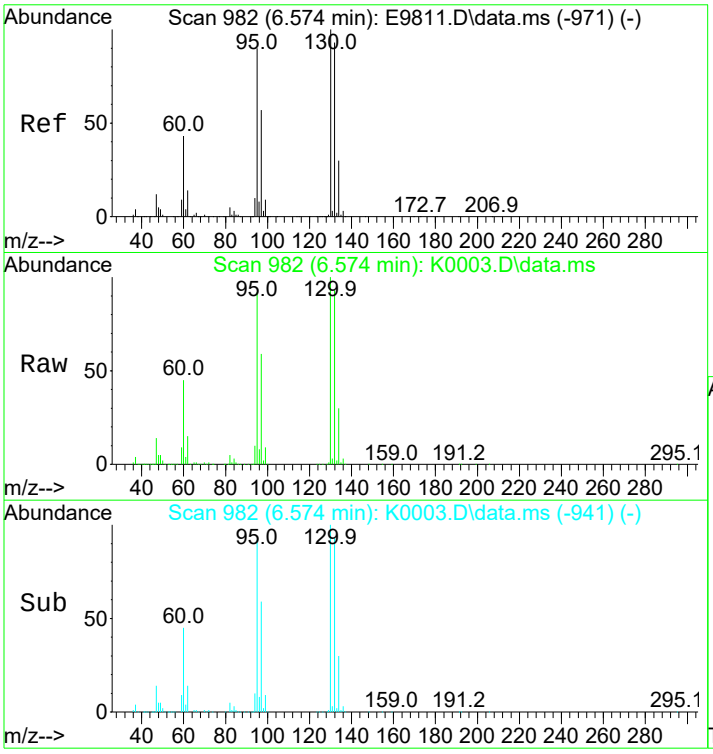


#34
cis-1,2-Dichloroethene
Concen: 39.00 ug/L
RT: 4.093 min Scan# 575
Delta R.T. 0.000 min
Lab File: K0003.D
Acq: 26 Feb 2024 05:54 pm

Tgt Ion: 96 Resp: 161669

Ion	Ratio	Lower	Upper
96	100		
61	135.3	128.2	168.2

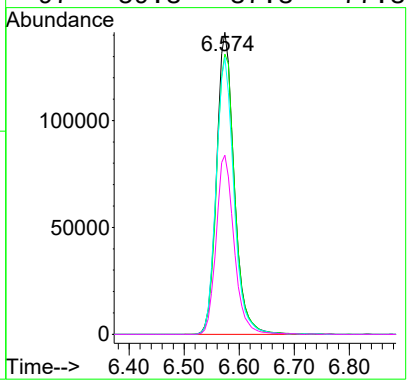




#54
Trichloroethene
Concen: 71.65 ug/L
RT: 6.574 min Scan# 982
Delta R.T. 0.000 min
Lab File: K0003.D
Acq: 26 Feb 2024 05:54 pm

Tgt Ion:130 Resp: 314310

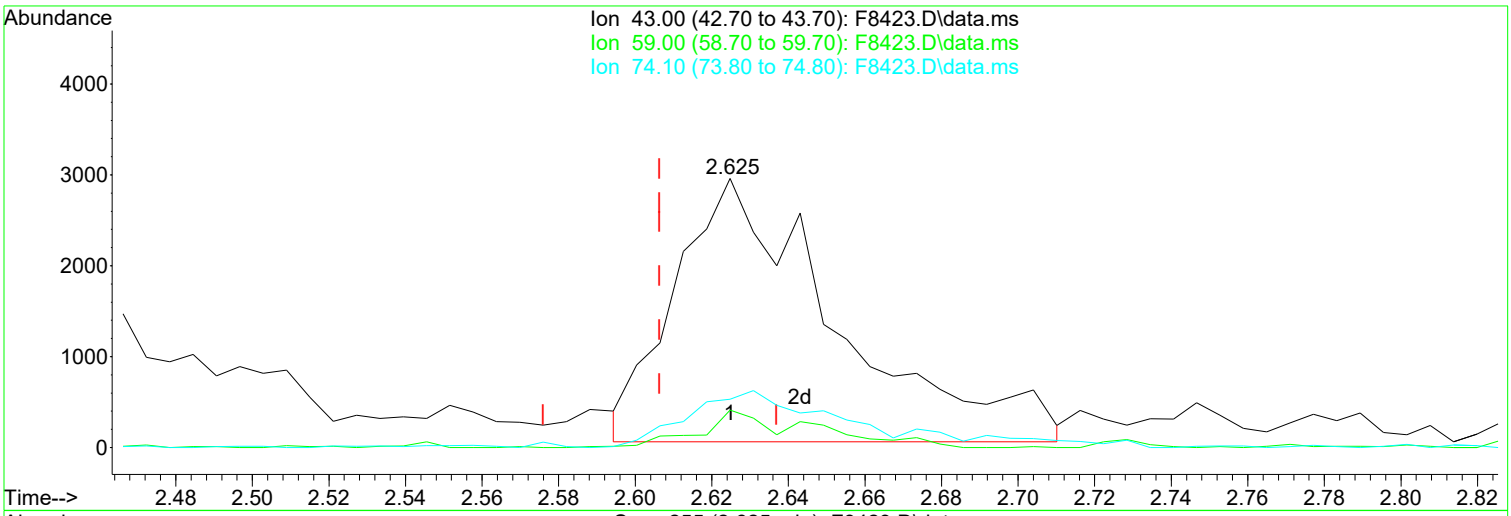
Ion	Ratio	Lower	Upper
130	100		
132	92.8	73.1	113.1
95	91.6	70.4	110.4
97	59.3	37.3	77.3

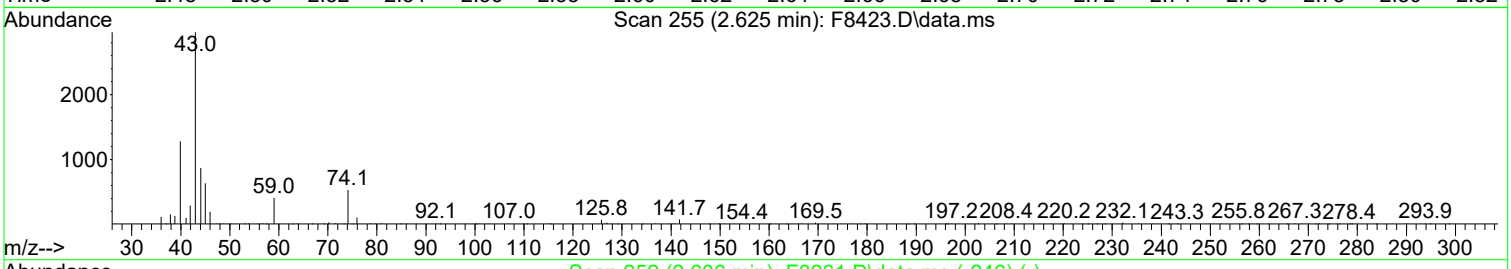


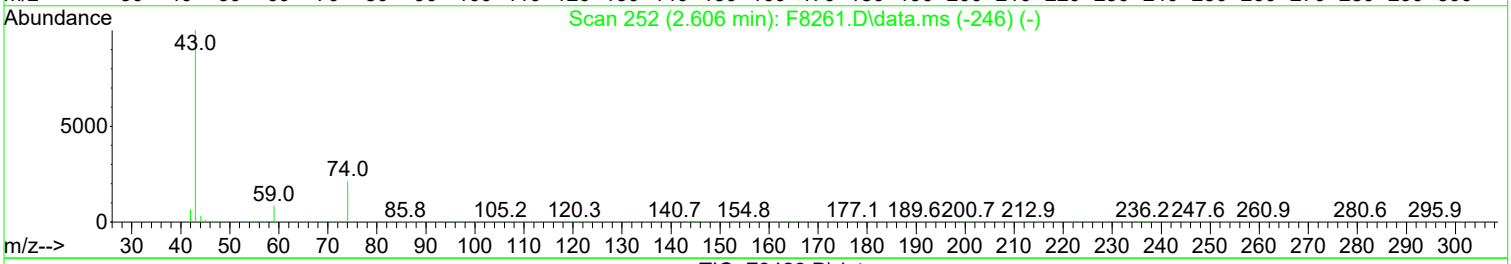
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8423.D
Acq On : 25 Feb 2024 11:42 pm
Operator : F.NAEGLER
Sample : R2401280-017|2.0
Misc : CEC 25499 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 26 09:06:52 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8423.D\data.ms

(22) Methyl Acetate (P)

2.625min (+ 0.018) 1.45 ug/L m

response 8563

Ion	Exp%	Act%
43.00	100.00	100.00
59.00	8.70	13.89
74.10	21.60	17.94
0.00	0.00	0.00

Manual Integration:

After

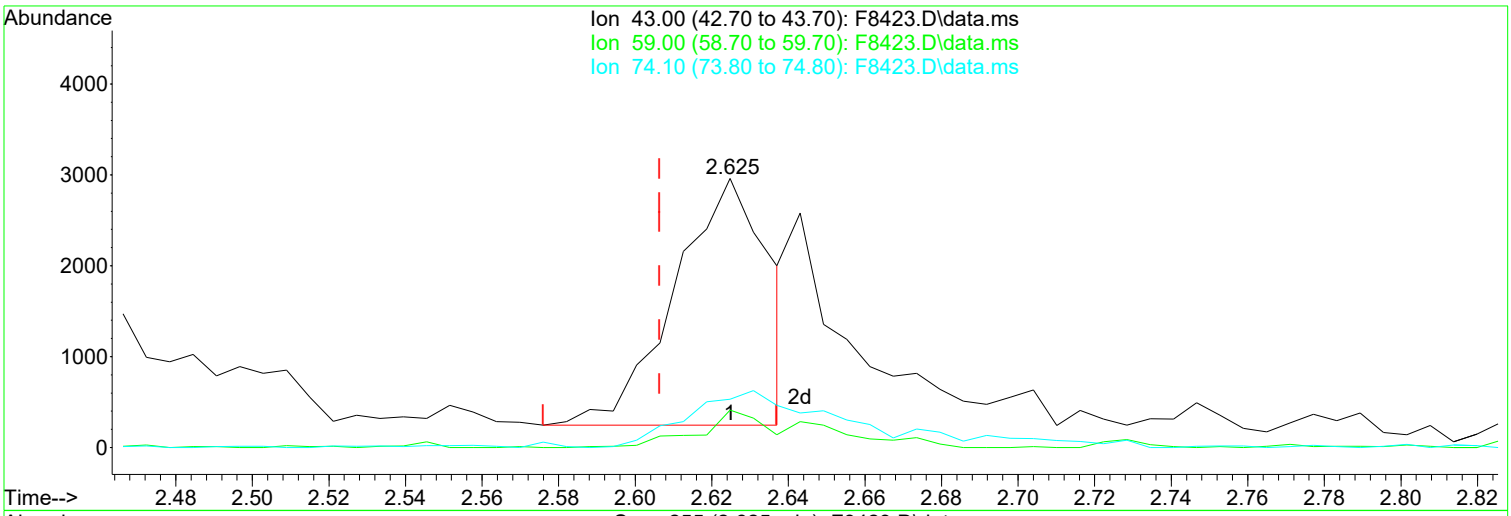
Poor integration.

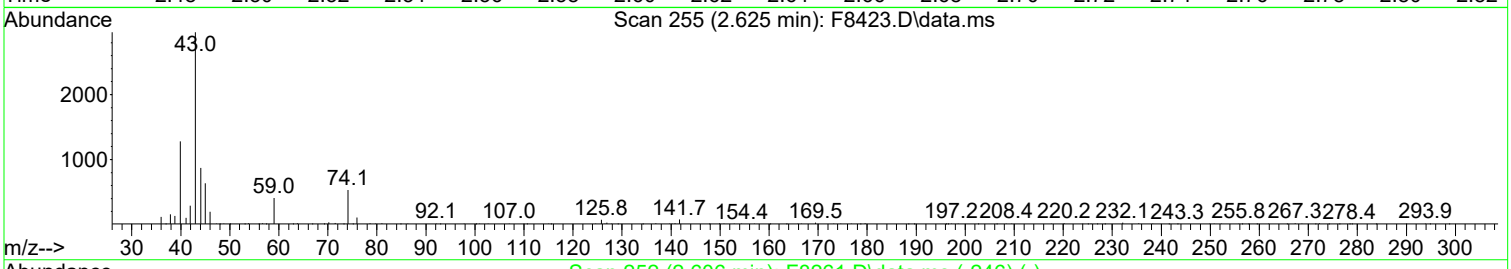
02/27/24

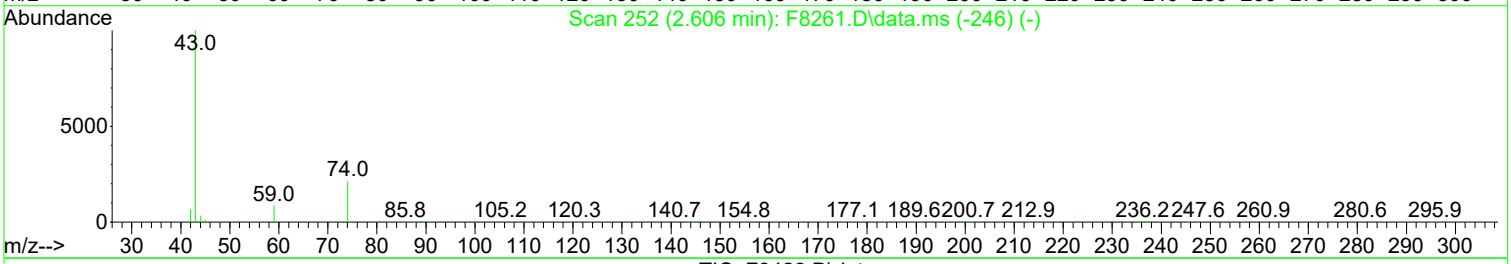
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8423.D
Acq On : 25 Feb 2024 11:42 pm
Operator : F.NAEGLER
Sample : R2401280-017|2.0
Misc : CEC 25499 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 26 09:06:52 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8423.D\data.ms

(22) Methyl Acetate (P)

2.625min (+ 0.018) 0.78 ug/L

response 4605

Ion	Exp%	Act%
43.00	100.00	100.00
59.00	8.70	13.89
74.10	21.60	17.94
0.00	0.00	0.00

Manual Integration:

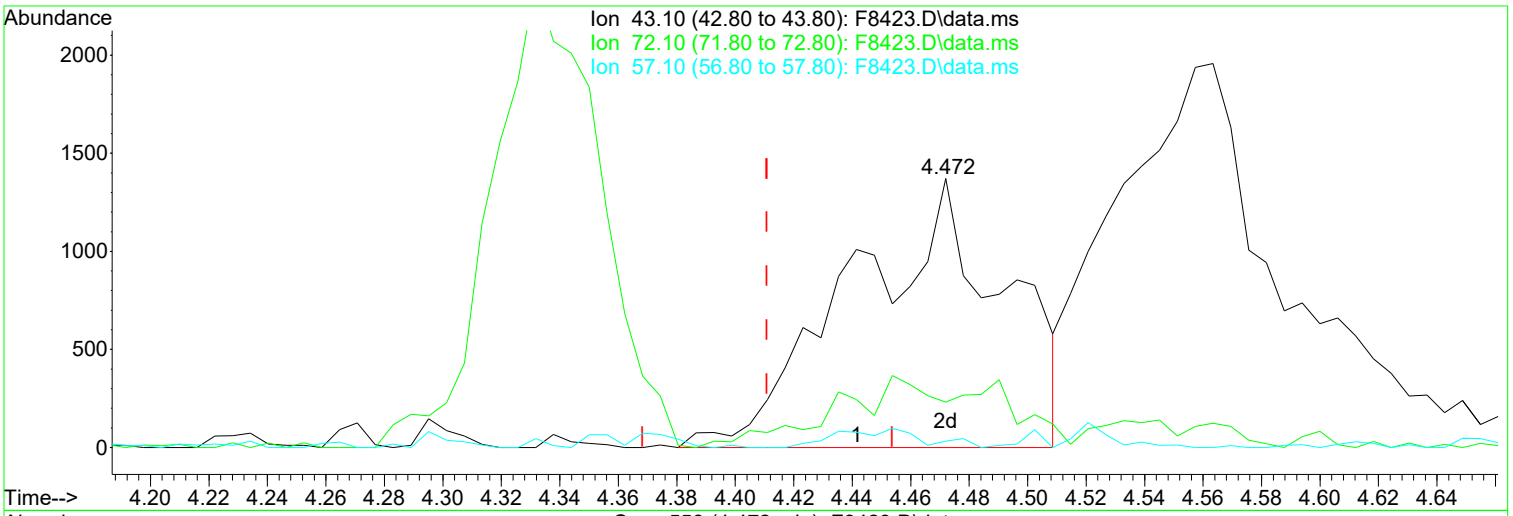
Before

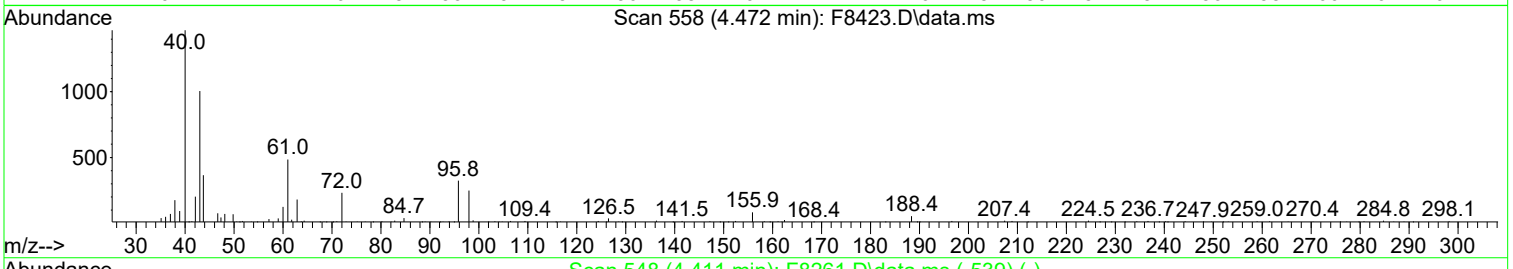
02/27/24

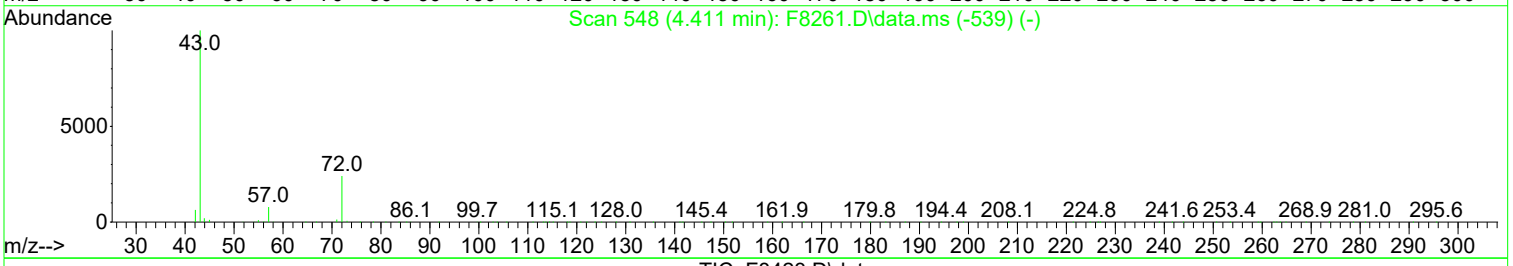
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8423.D
Acq On : 25 Feb 2024 11:42 pm
Operator : F.NAEGLER
Sample : R2401280-017|2.0
Misc : CEC 25499 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 26 09:06:52 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8423.D\data.ms

(35) 2-Butanone (P)

4.472min (+ 0.061) 1.52 ug/L m

response 4962

Ion	Exp%	Act%
43.10	100.00	100.00
72.10	24.50	22.99
57.10	7.80	3.18
0.00	0.00	0.00

Manual Integration:

After

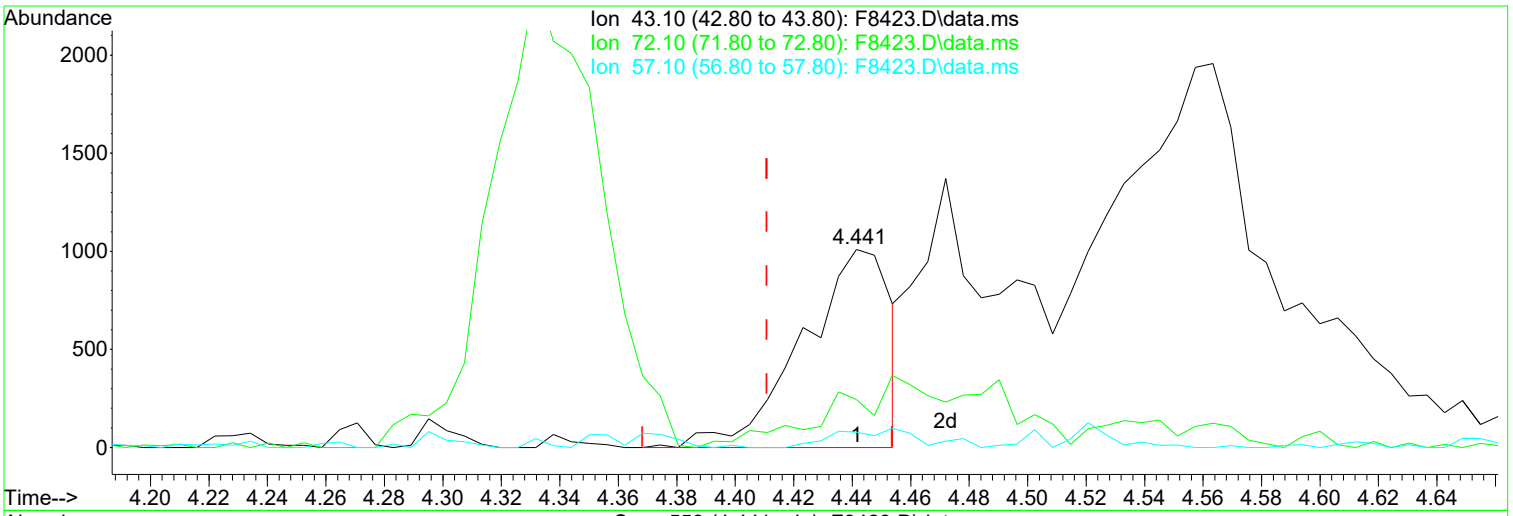
Poor integration.

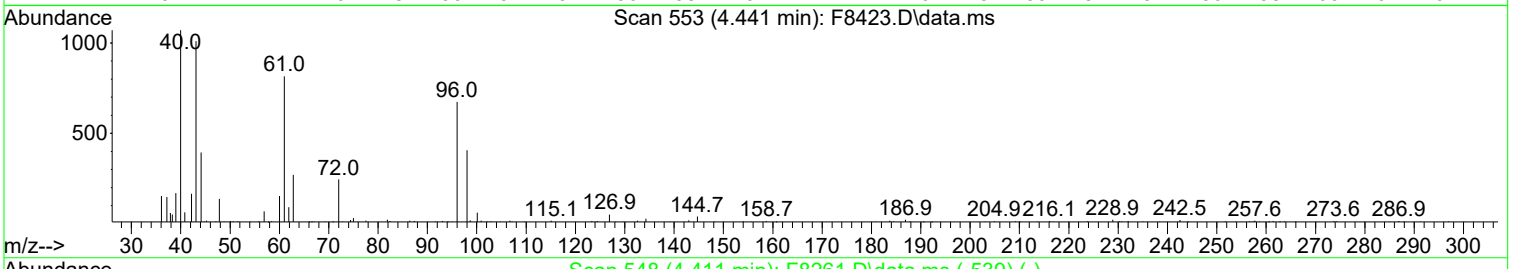
02/27/24

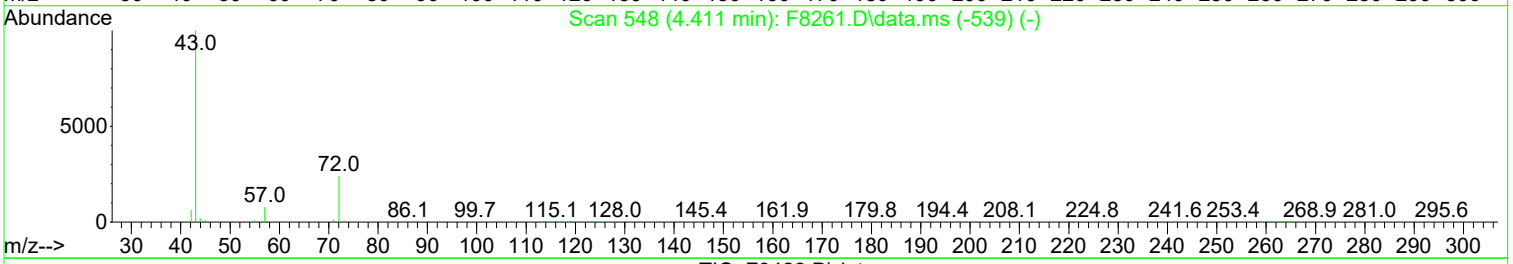
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8423.D
Acq On : 25 Feb 2024 11:42 pm
Operator : F.NAEGLER
Sample : R2401280-017|2.0
Misc : CEC 25499 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 26 09:06:52 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8423.D\data.ms

(35) 2-Butanone (P)

4.441min (+ 0.031) 0.65 ug/L

response 2106

Ion	Exp%	Act%
43.10	100.00	100.00
72.10	24.50	25.35
57.10	7.80	7.82
0.00	0.00	0.00

Manual Integration:

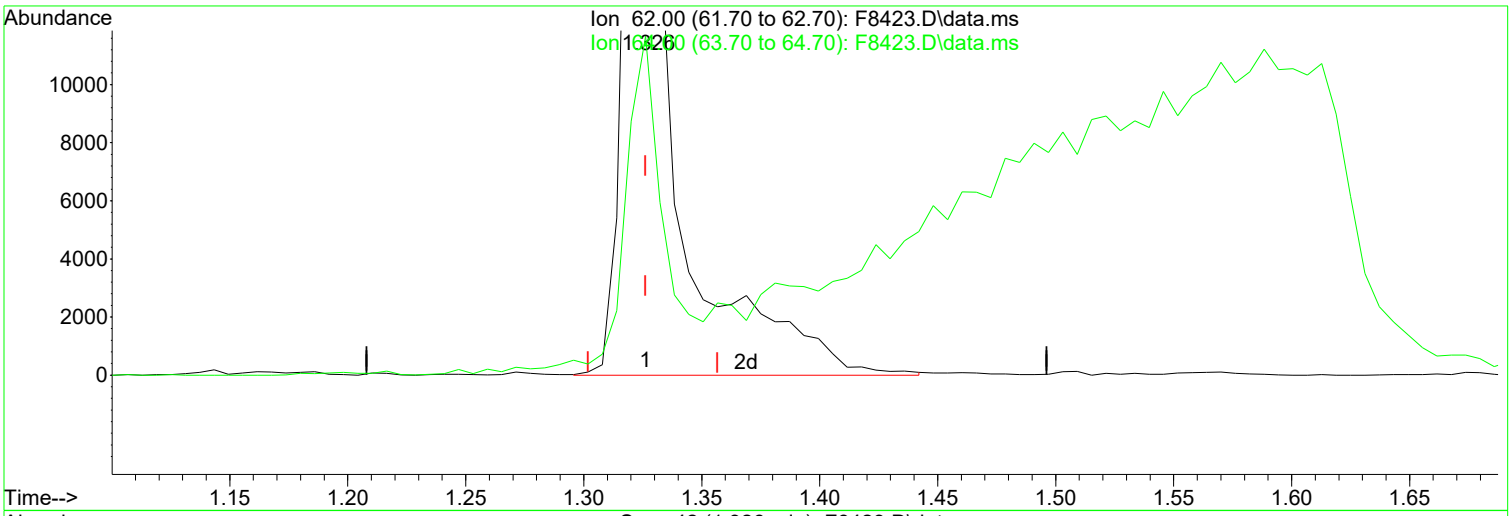
Before

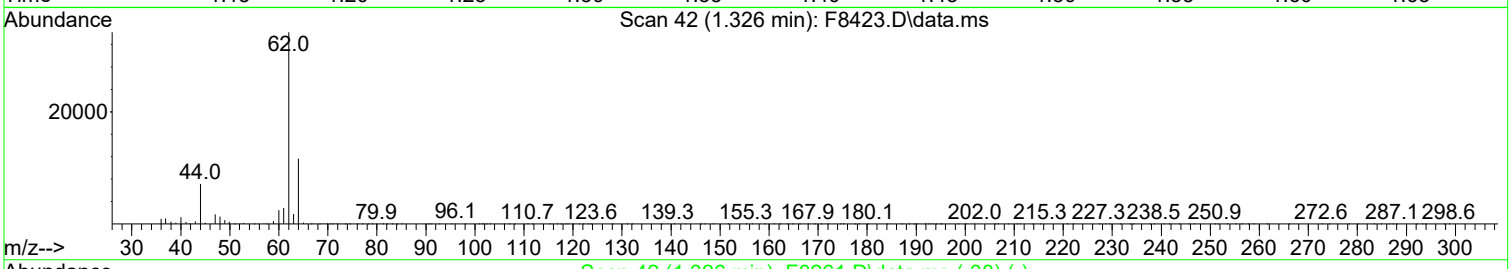
02/27/24

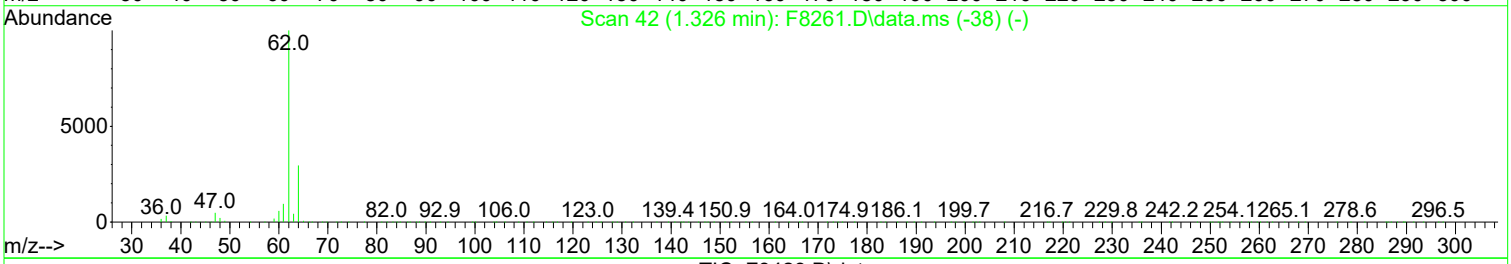
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8423.D
Acq On : 25 Feb 2024 11:42 pm
Operator : F.NAEGLER
Sample : R2401280-017|2.0
Misc : CEC 25499 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 26 09:06:52 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8423.D\data.ms

(5) Vinyl Chloride (P)

1.326min (+ 0.000) 8.45 ug/L m

response 41393

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	29.60	34.15
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

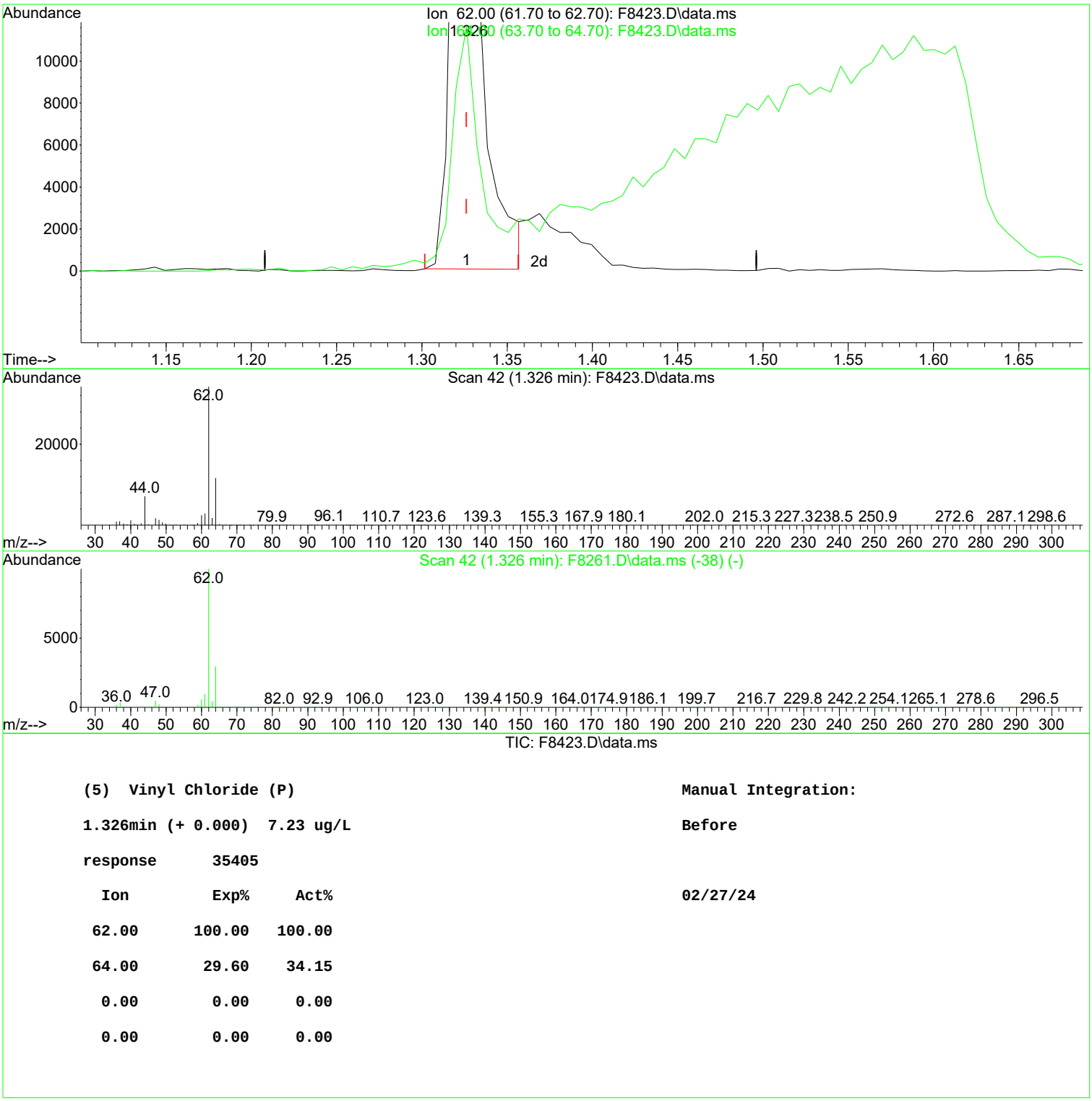
Poor integration.

02/27/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8423.D
Acq On : 25 Feb 2024 11:42 pm
Operator : F.NAEGLER
Sample : R2401280-017|2.0
Misc : CEC 25499 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 26 09:06:52 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



TIC: F8423.D\data.ms

(5) Vinyl Chloride (P)

1.326min (+ 0.000) 7.23 ug/L

response 35405

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	29.60	34.15
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

02/27/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8423.D
Acq On : 25 Feb 2024 11:42 pm
Operator : F.NAEGLER
Sample : R2401280-017|2.0
Misc : CEC 25499 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 26 09:06:52 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

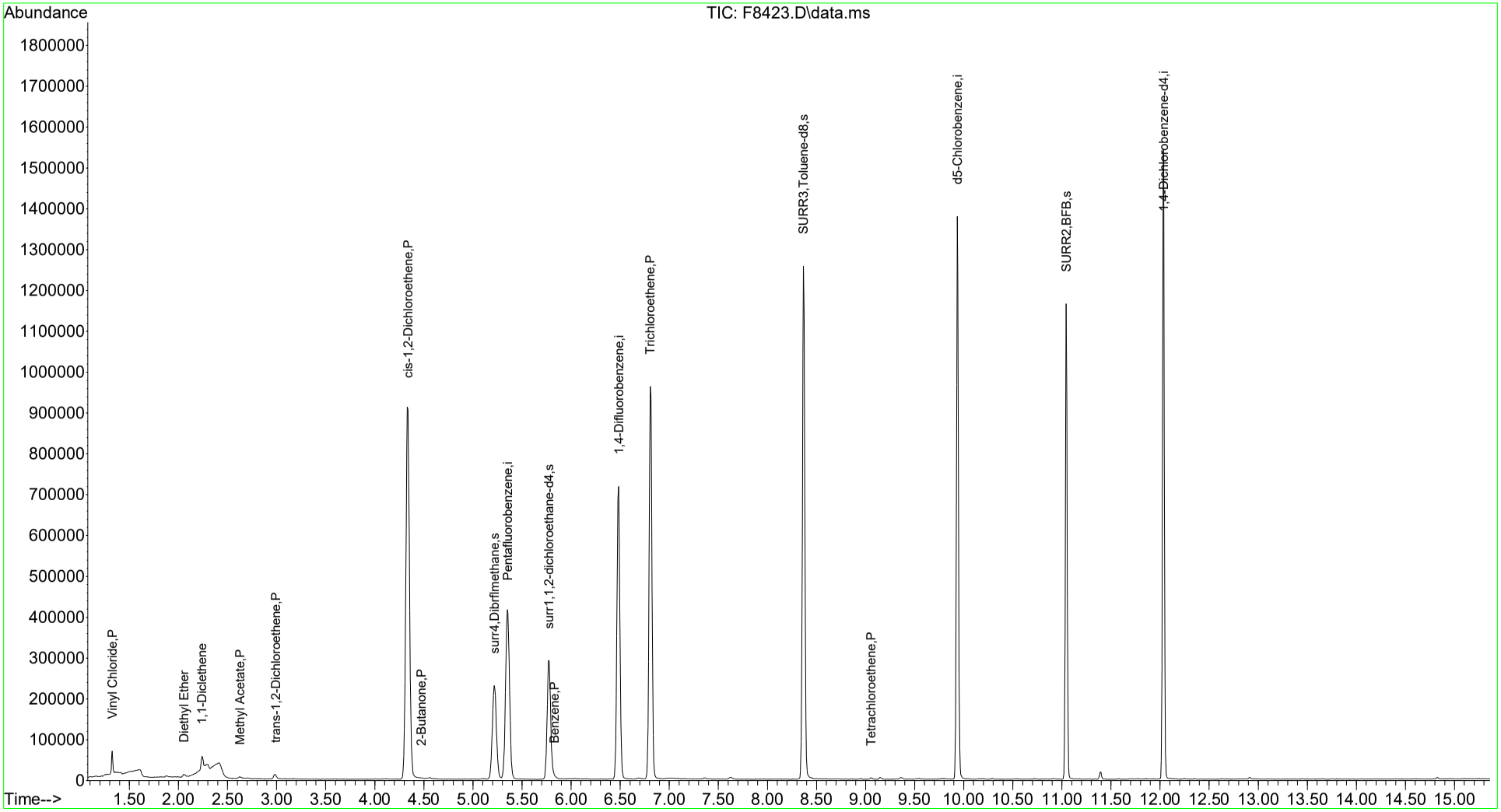
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.356	168	403688	50.00 ug/L	0.00
43) 1,4-Difluorobenzene	6.484	114	647025	50.00 ug/L	0.00
71) d5-Chlorobenzene	9.934	117	606279	50.00 ug/L	0.00
91) 1,4-Dichlorobenzene-d4	12.038	152	313331	50.00 ug/L	0.00
System Monitoring Compounds					
45) surr4,Dibrflmethane	5.216	113	195945	47.24 ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 94.48%		
48) surr1,1,2-dichloroetha...	5.770	65	266104	48.88 ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 97.76%		
65) SURR3,Toluene-d8	8.368	98	789657	46.81 ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 93.62%		
70) SURR2,BFB	11.044	95	279920	43.68 ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 87.36%		
Target Compounds					Qvalue
4) Chloromethane	1.253	50	417	Below Cal	99
5) Vinyl Chloride	1.326	62	41393m	8.448 ug/L	
10) Diethyl Ether	2.058	59	2558	0.675 ug/L #	74
14) 1,1-Diclethene	2.241	96	8283	2.868 ug/L #	85
22) Methyl Acetate	2.625	43	8563m	1.450 ug/L	
23) Methylene Chloride	2.704	84	503m	Below Cal	
27) trans-1,2-Dichloroethene	2.991	96	4188	1.209 ug/L	91
34) cis-1,2-Dichloroethene	4.338	96	522350	127.047 ug/L	90
35) 2-Butanone	4.472	43	4962m	1.524 ug/L	
49) Benzene	5.831	78	3630	0.251 ug/L #	17
54) Trichloroethene	6.807	130	344557	88.857 ug/L	99
72) Tetrachloroethene	9.056	164	672	0.233 ug/L #	84

(#) = qualifier out of range (m) = manual integration (+) = signals summed

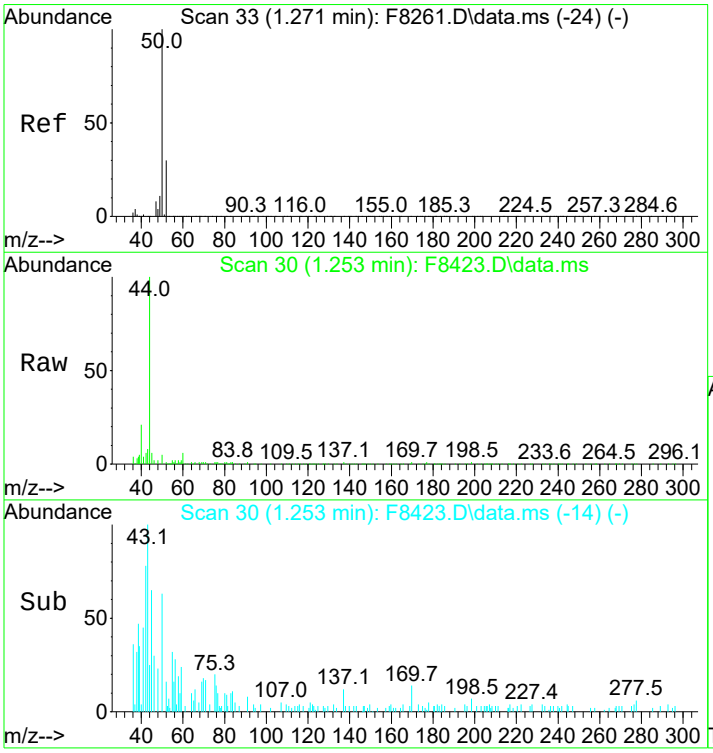
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8423.D
Acq On : 25 Feb 2024 11:42 pm
Operator : F.NAEGLER
Sample : R2401280-017|2.0
Misc : CEC 25499 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 26 09:06:52 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



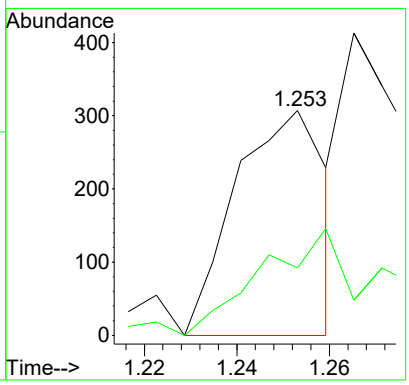
1st FJ 02/27/24
2nd AM 02/28/24

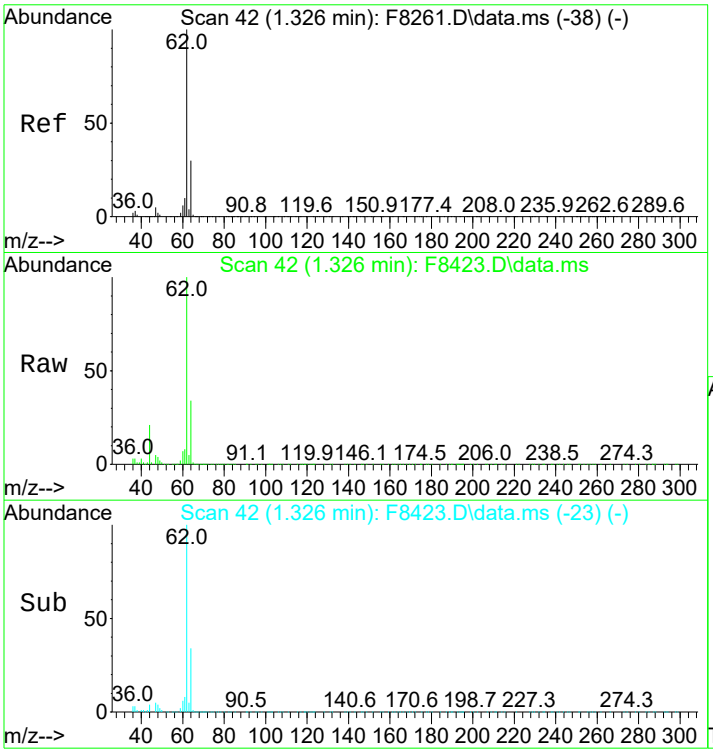


#4
Chloromethane
Concen: Below Cal
RT: 1.253 min Scan# 30
Delta R.T. -0.018 min
Lab File: F8423.D
Acq: 25 Feb 2024 11:42 pm

Tgt Ion: 50 Resp: 417

Ion	Ratio	Lower	Upper
50	100		
52	30.0	10.3	50.3

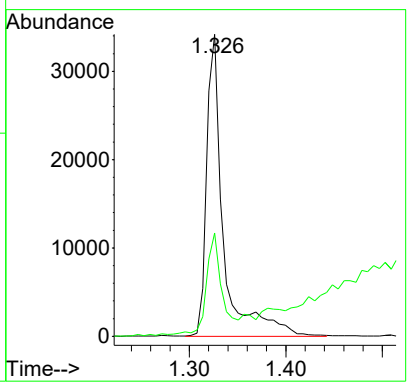


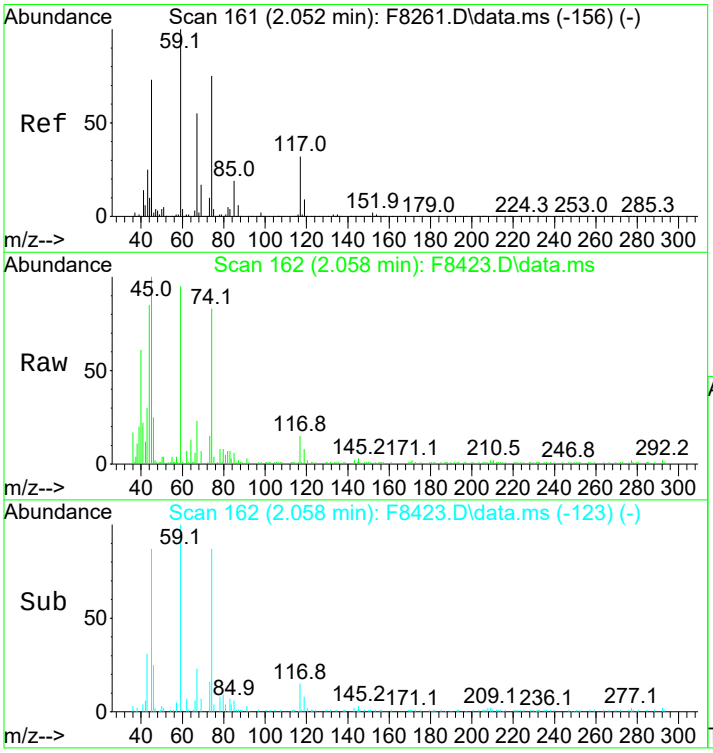


#5
Vinyl Chloride
Concen: 8.45 ug/L m
RT: 1.326 min Scan# 42
Delta R.T. 0.000 min
Lab File: F8423.D
Acq: 25 Feb 2024 11:42 pm

Tgt Ion: 62 Resp: 41393

Ion	Ratio	Lower	Upper
62	100		
64	34.2	9.6	49.6

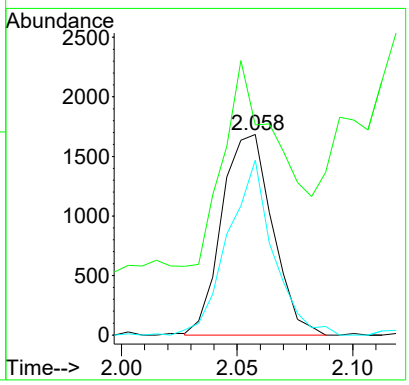


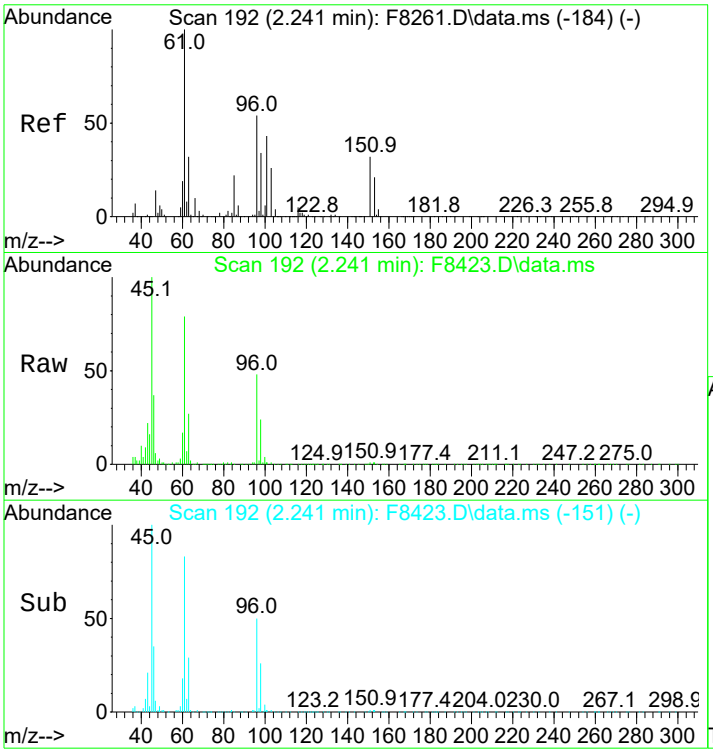


#10
Diethyl Ether
Concen: 0.68 ug/L
RT: 2.058 min Scan# 162
Delta R.T. 0.006 min
Lab File: F8423.D
Acq: 25 Feb 2024 11:42 pm

Tgt Ion: 59 Resp: 2558

Ion	Ratio	Lower	Upper
59	100		
45	104.9	53.1	93.1#
74	87.2	55.0	95.0

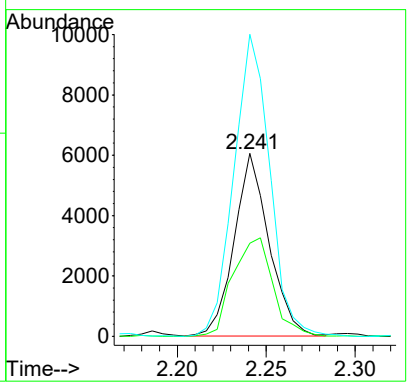


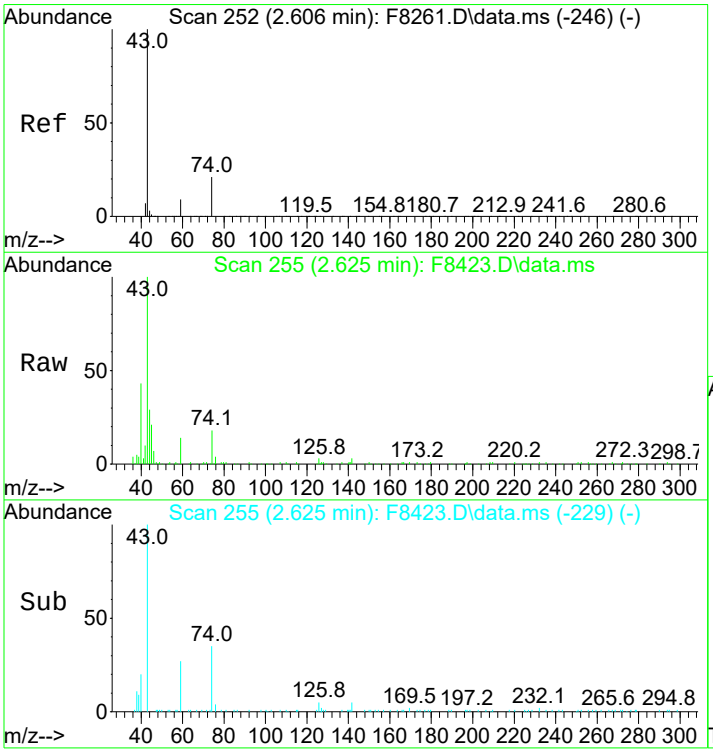


#14
1,1-Diclethene
Concen: 2.87 ug/L
RT: 2.241 min Scan# 192
Delta R.T. 0.000 min
Lab File: F8423.D
Acq: 25 Feb 2024 11:42 pm

Tgt Ion: 96 Resp: 8283

Ion	Ratio	Lower	Upper
96	100		
98	50.8	43.9	83.9
61	165.1	165.5	205.5#

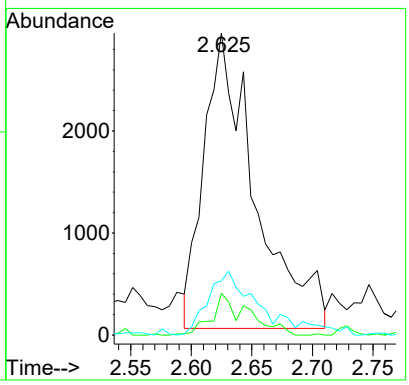


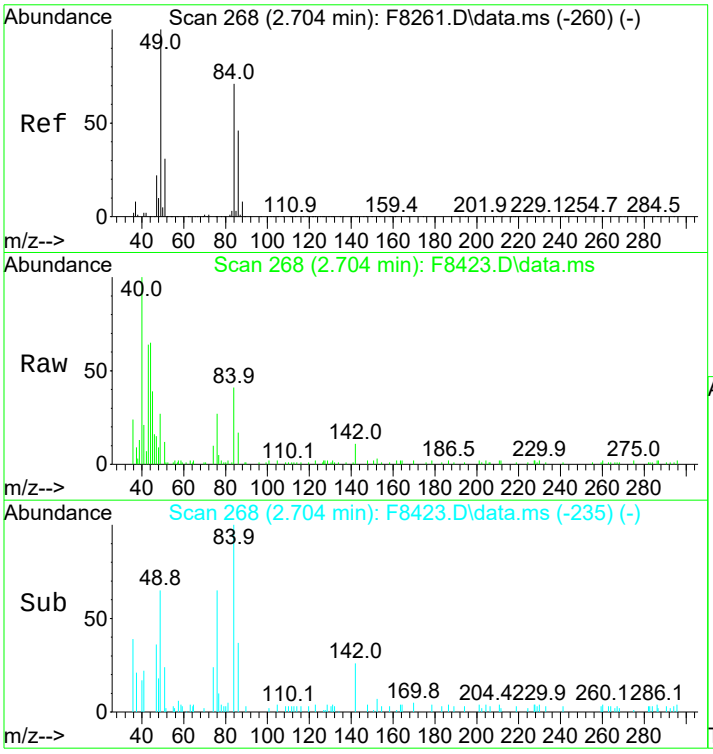


#22
Methyl Acetate
Concen: 1.45 ug/L m
RT: 2.625 min Scan# 255
Delta R.T. 0.018 min
Lab File: F8423.D
Acq: 25 Feb 2024 11:42 pm

Tgt Ion: 43 Resp: 8563

Ion	Ratio	Lower	Upper
43	100		
59	13.9	0.0	28.7
74	17.9	1.6	41.6

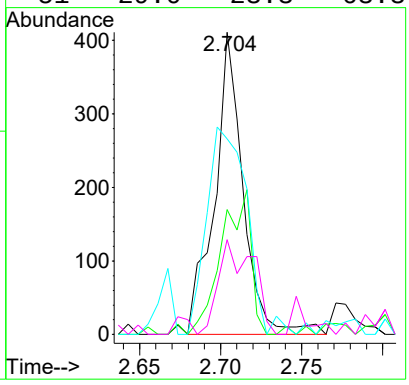


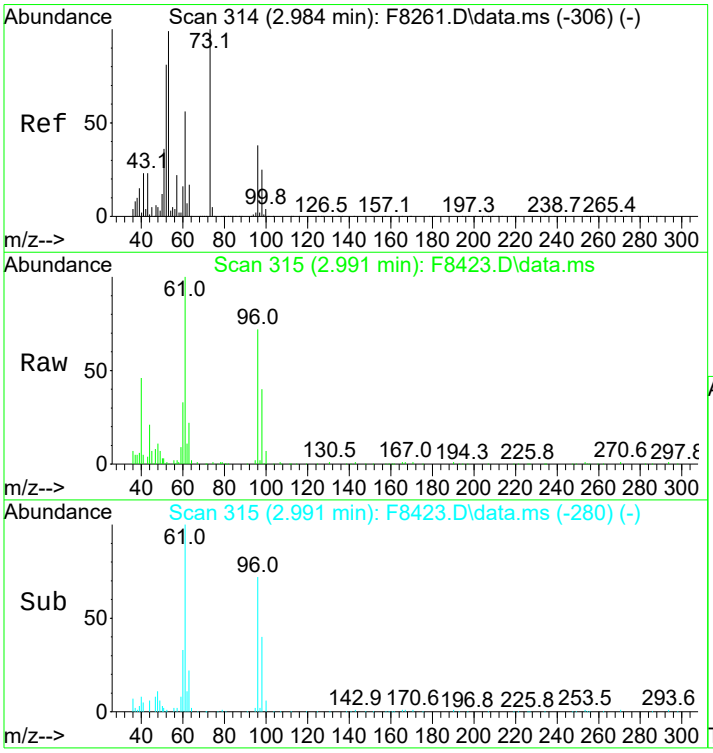


#23
Methylene Chloride
Concen: Below Cal m
RT: 2.704 min Scan# 268
Delta R.T. 0.001 min
Lab File: F8423.D
Acq: 25 Feb 2024 11:42 pm

Tgt Ion: 84 Resp: 503

Ion	Ratio	Lower	Upper
84	100		
86	41.4	45.1	85.1#
49	64.7	120.9	160.9#
51	29.0	23.3	63.3

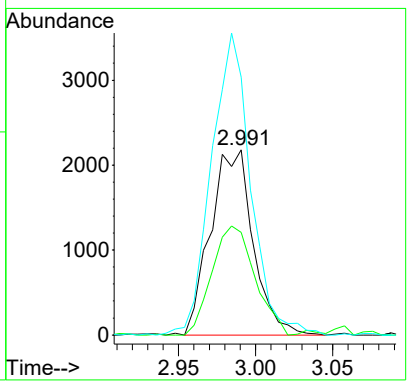


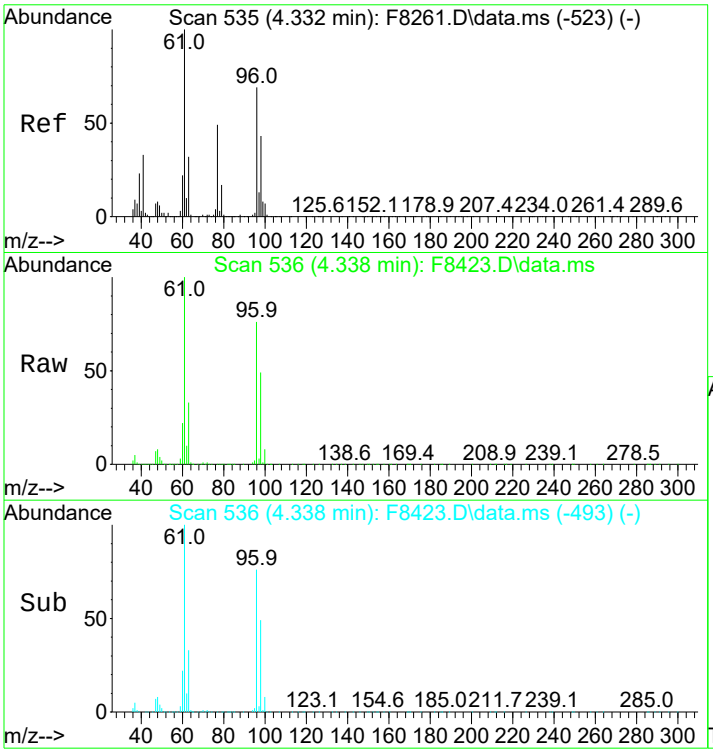


#27
trans-1,2-Dichloroethene
Concen: 1.21 ug/L
RT: 2.991 min Scan# 315
Delta R.T. 0.006 min
Lab File: F8423.D
Acq: 25 Feb 2024 11:42 pm

Tgt Ion: 96 Resp: 4188

Ion	Ratio	Lower	Upper
96	100		
98	55.4	45.9	85.9
61	139.3	128.4	168.4

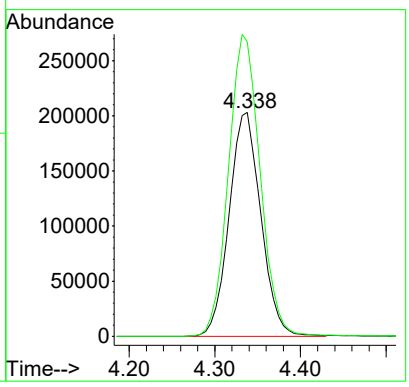


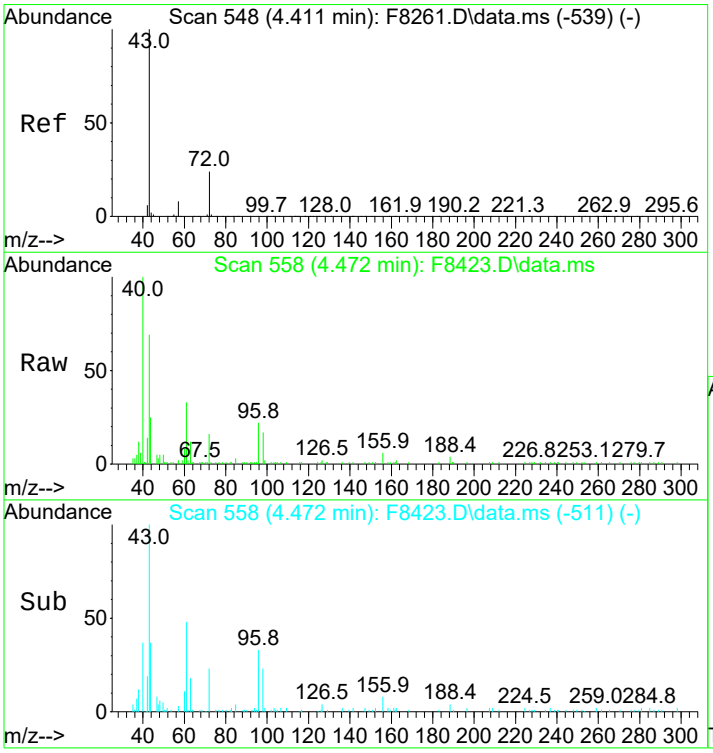


#34
cis-1,2-Dichloroethene
Concen: 127.05 ug/L
RT: 4.338 min Scan# 536
Delta R.T. 0.006 min
Lab File: F8423.D
Acq: 25 Feb 2024 11:42 pm

Tgt Ion: 96 Resp: 522350

Ion	Ratio	Lower	Upper
96	100		
61	131.5	124.5	164.5

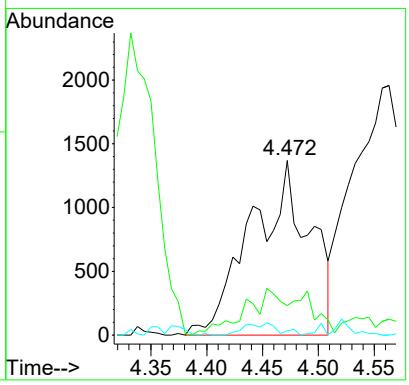


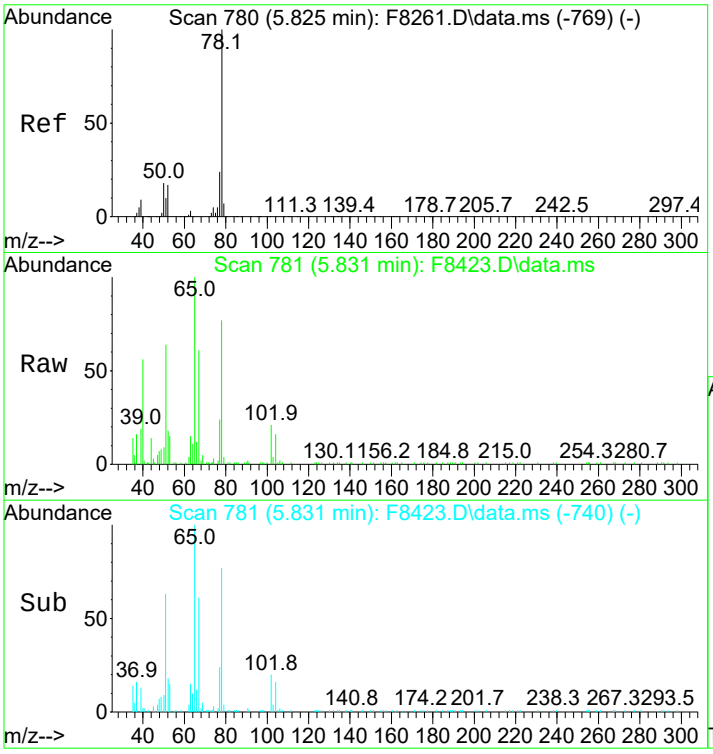


#35
2-Butanone
Concen: 1.52 ug/L m
RT: 4.472 min Scan# 558
Delta R.T. 0.061 min
Lab File: F8423.D
Acq: 25 Feb 2024 11:42 pm

Tgt Ion: 43 Resp: 4962

Ion	Ratio	Lower	Upper
43	100		
72	23.0	4.5	44.5
57	3.2	0.0	27.8

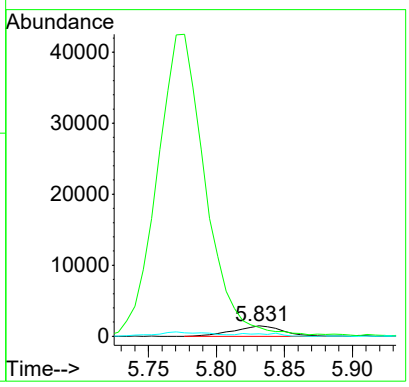


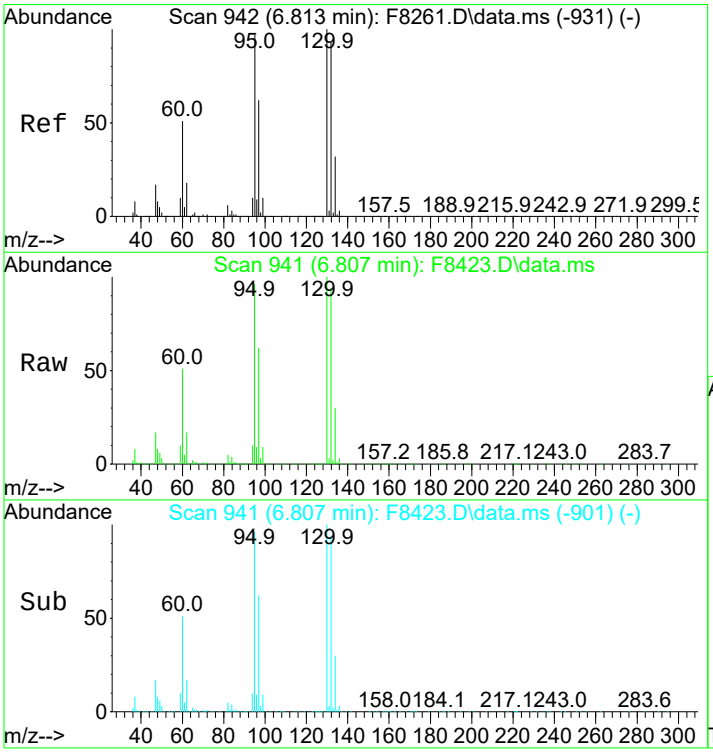


#49
Benzene
Concen: 0.25 ug/L
RT: 5.831 min Scan# 781
Delta R.T. 0.006 min
Lab File: F8423.D
Acq: 25 Feb 2024 11:42 pm

Tgt Ion: 78 Resp: 3630

Ion	Ratio	Lower	Upper
78	100		
51	82.9	0.0	38.9#
52	24.0	0.0	36.8

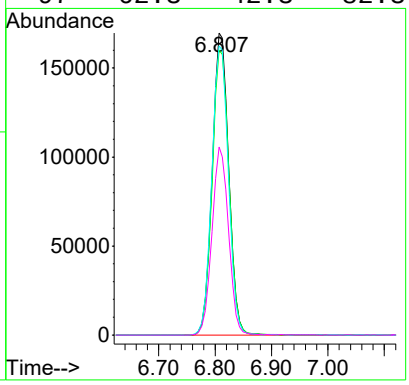


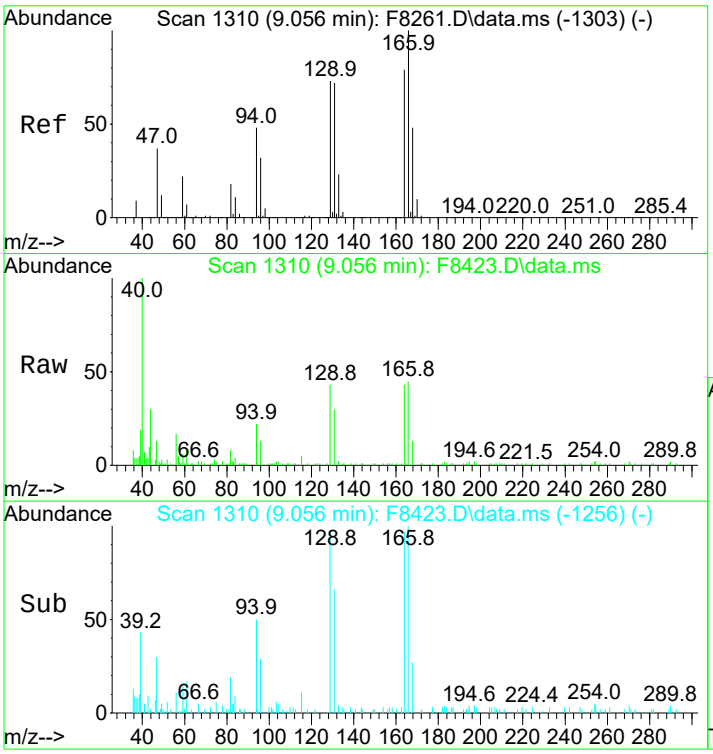


#54
Trichloroethene
Concen: 88.86 ug/L
RT: 6.807 min Scan# 941
Delta R.T. -0.006 min
Lab File: F8423.D
Acq: 25 Feb 2024 11:42 pm

Tgt Ion:130 Resp: 344557

Ion	Ratio	Lower	Upper
130	100		
132	94.4	73.2	113.2
95	95.7	77.2	117.2
97	62.3	42.3	82.3

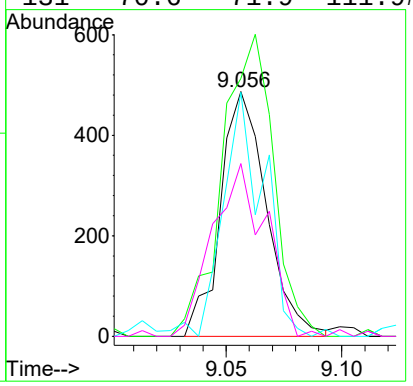




#72
Tetrachloroethene
Concen: 0.23 ug/L
RT: 9.056 min Scan# 1310
Delta R.T. 0.000 min
Lab File: F8423.D
Acq: 25 Feb 2024 11:42 pm

Tgt Ion:164 Resp: 672

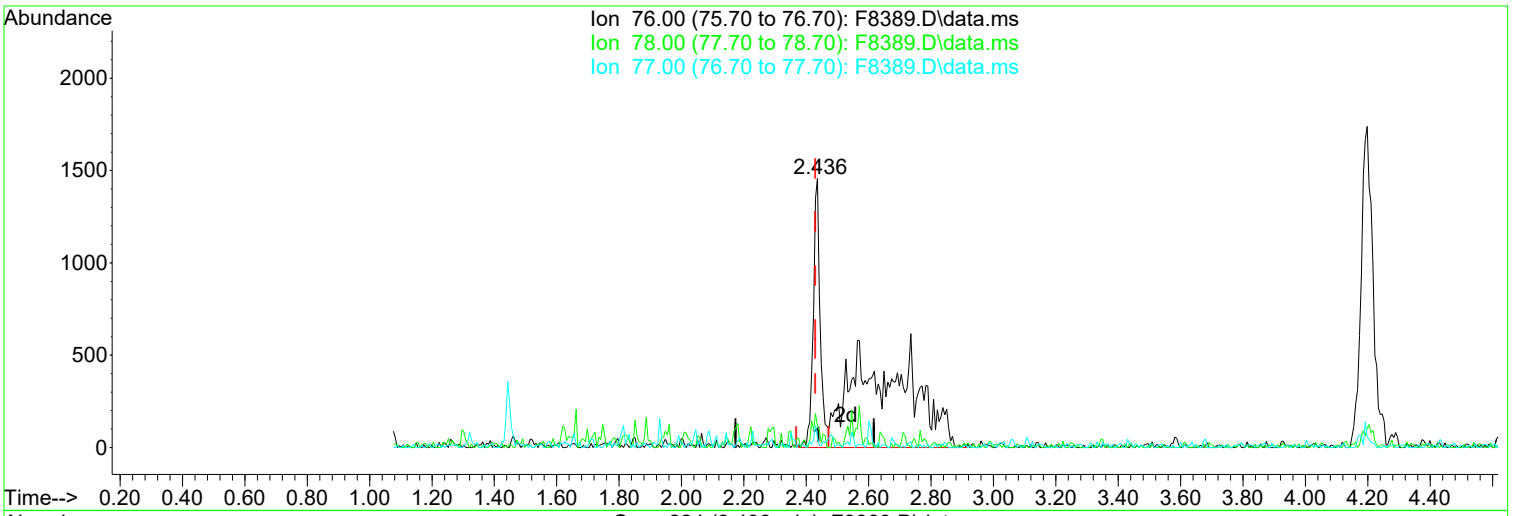
Ion	Ratio	Lower	Upper
164	100		
166	105.3	107.3	147.3#
129	99.8	73.1	113.1
131	70.6	71.9	111.9#

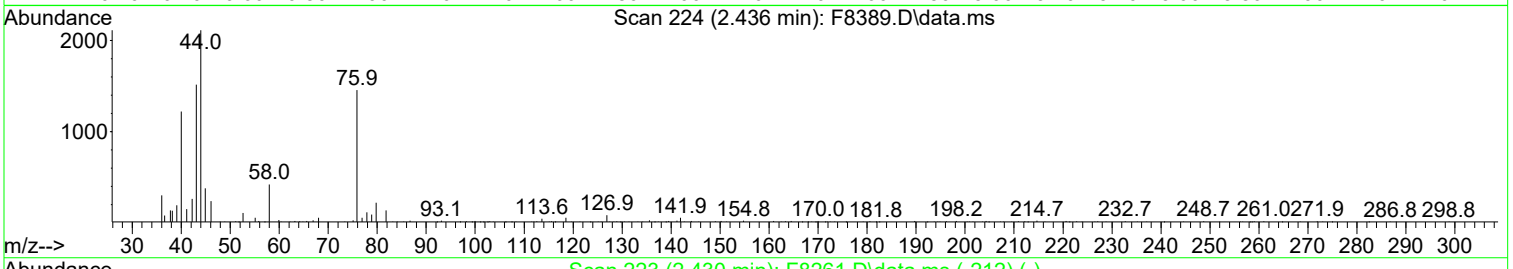


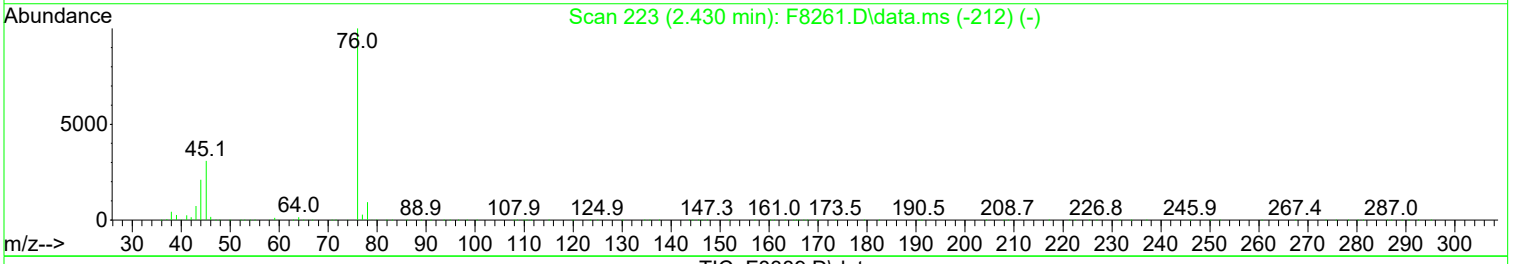
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8389.D
Acq On : 23 Feb 2024 08:32 pm
Operator : F.NAEGLER
Sample : R2401280-018
Misc : CEC 25499 T4
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Feb 25 12:24:36 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8389.D\data.ms

(19) Carbon Disulfide (P)

2.436min (+ 0.006) 1.07 ug/L m

response 9288

Ion	Exp%	Act%
76.00	100.00	100.00
78.00	9.40	7.89
77.00	2.90	3.71
0.00	0.00	0.00

Manual Integration:

After

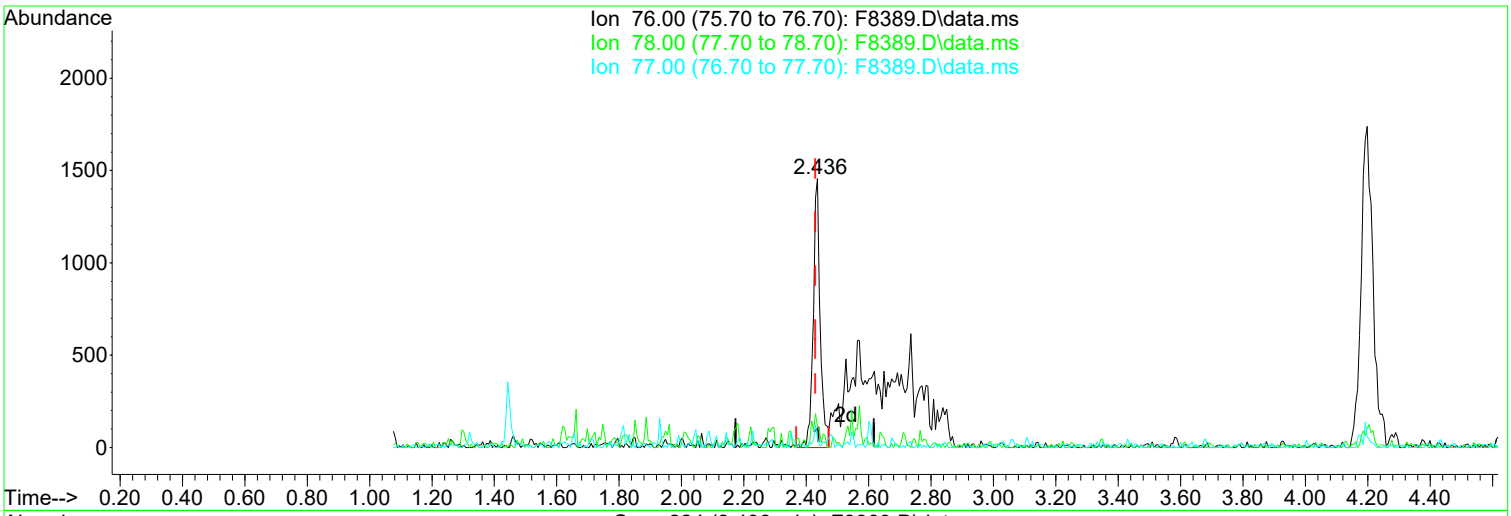
Poor integration.

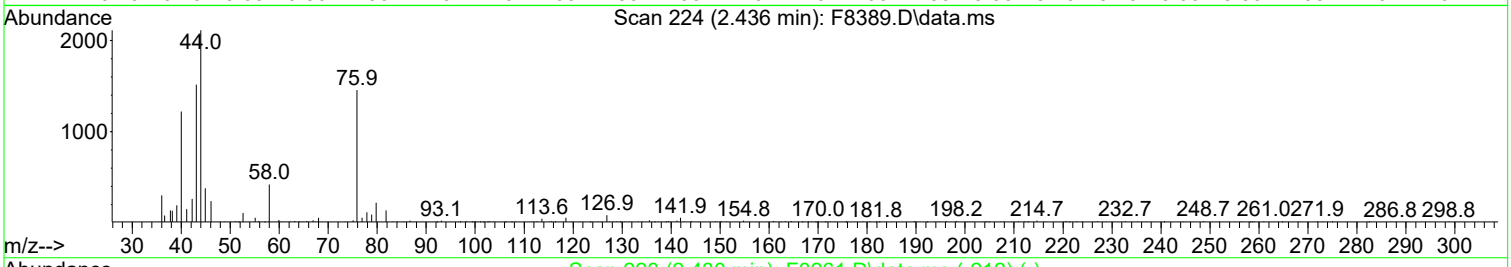
02/26/24

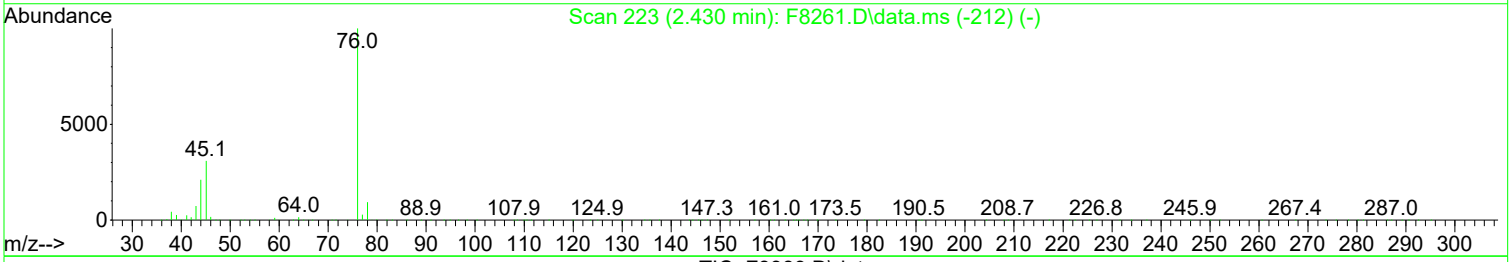
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8389.D
Acq On : 23 Feb 2024 08:32 pm
Operator : F.NAEGLER
Sample : R2401280-018
Misc : CEC 25499 T4
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Feb 25 12:24:36 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8389.D\data.ms

(19) Carbon Disulfide (P)

2.436min (+ 0.006) 0.26 ug/L

response 2255

Ion	Exp%	Act%
76.00	100.00	100.00
78.00	9.40	7.89
77.00	2.90	3.71
0.00	0.00	0.00

Manual Integration:

Before

02/26/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8389.D
Acq On : 23 Feb 2024 08:32 pm
Operator : F.NAEGLER
Sample : R2401280-018
Misc : CEC 25499 T4
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Feb 25 12:24:36 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

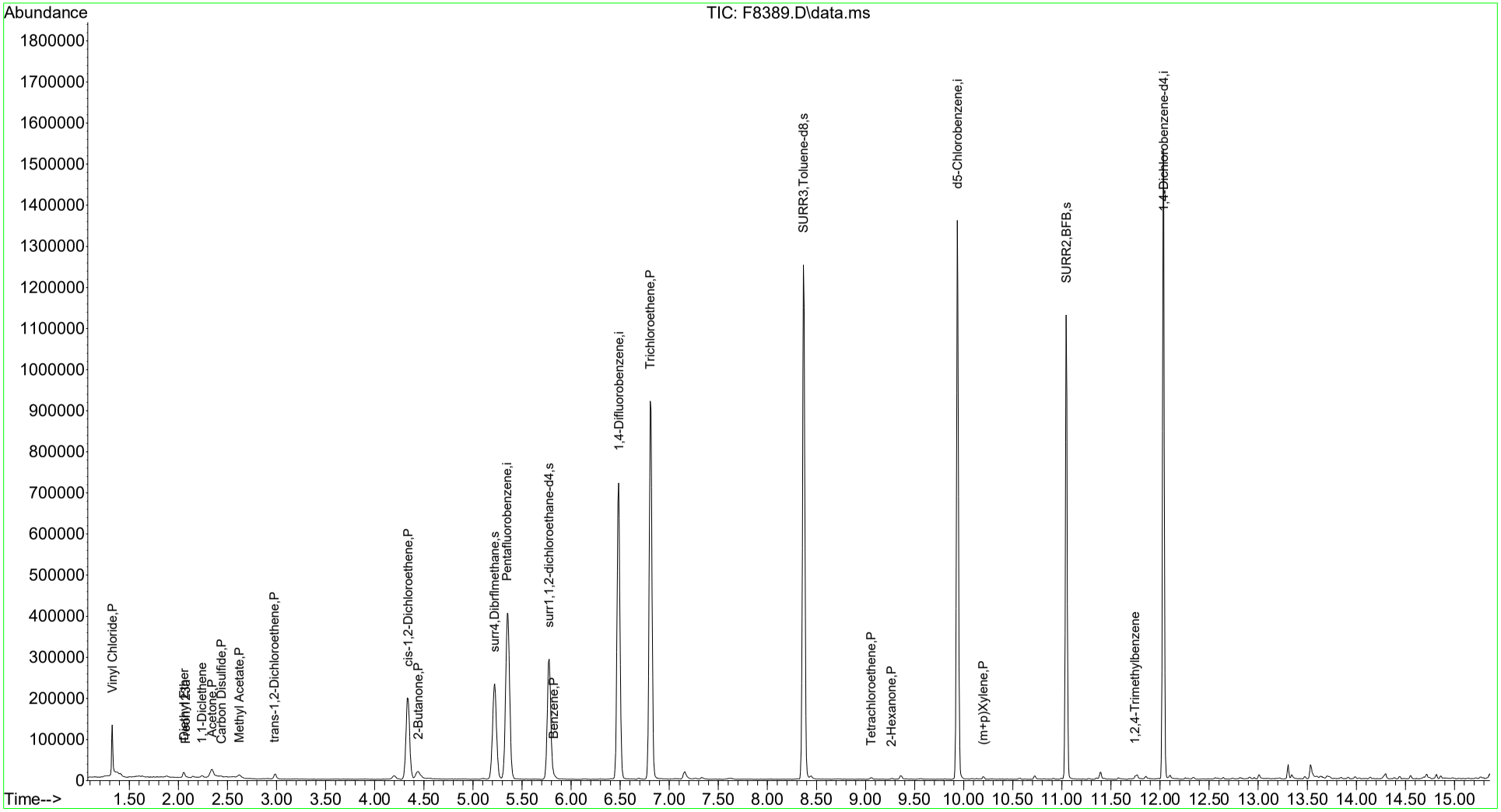
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.350	168	393497	50.00 ug/L	0.00
43) 1,4-Difluorobenzene	6.484	114	629737	50.00 ug/L	0.00
71) d5-Chlorobenzene	9.934	117	589879	50.00 ug/L	0.00
91) 1,4-Dichlorobenzene-d4	12.038	152	298386	50.00 ug/L	0.00
System Monitoring Compounds					
45) surr4,Dibrflmethane	5.222	113	191817	47.51 ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 95.02%		
48) surr1,1,2-dichloroetha...	5.777	65	265098	50.04 ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.08%		
65) SURR3,Toluene-d8	8.368	98	778032	47.38 ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 94.76%		
70) SURR2,BFB	11.044	95	272393	43.67 ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 87.34%		
Target Compounds					Qvalue
4) Chloromethane	1.253	50	410	Below Cal	99
5) Vinyl Chloride	1.326	62	83917	17.571 ug/L	93
10) Diethyl Ether	2.058	59	5705	1.545 ug/L	94
11) Freon 123a	2.070	67	930	0.214 ug/L	92
14) 1,1-Diclethene	2.241	96	852	0.303 ug/L	95
16) Acetone	2.338	43	32453	13.904 ug/L	91
19) Carbon Disulfide	2.436	76	9288m	1.072 ug/L	
22) Methyl Acetate	2.619	43	14382	2.499 ug/L	94
27) trans-1,2-Dichloroethene	2.978	96	4001	1.185 ug/L	92
34) cis-1,2-Dichloroethene	4.338	96	116457	29.058 ug/L	90
35) 2-Butanone	4.442	43	43825	13.808 ug/L	99
49) Benzene	5.819	78	3334	0.237 ug/L #	1
54) Trichloroethene	6.807	130	320731	84.983 ug/L	98
72) Tetrachloroethene	9.057	164	820	0.292 ug/L #	87
73) 2-Hexanone	9.258	43	1425	0.311 ug/L	83
83) (m+p)Xylene	10.197	106	1464	0.217 ug/L	91
101) 1,2,4-Trimethylbenzene	11.745	105	3489	0.255 ug/L	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

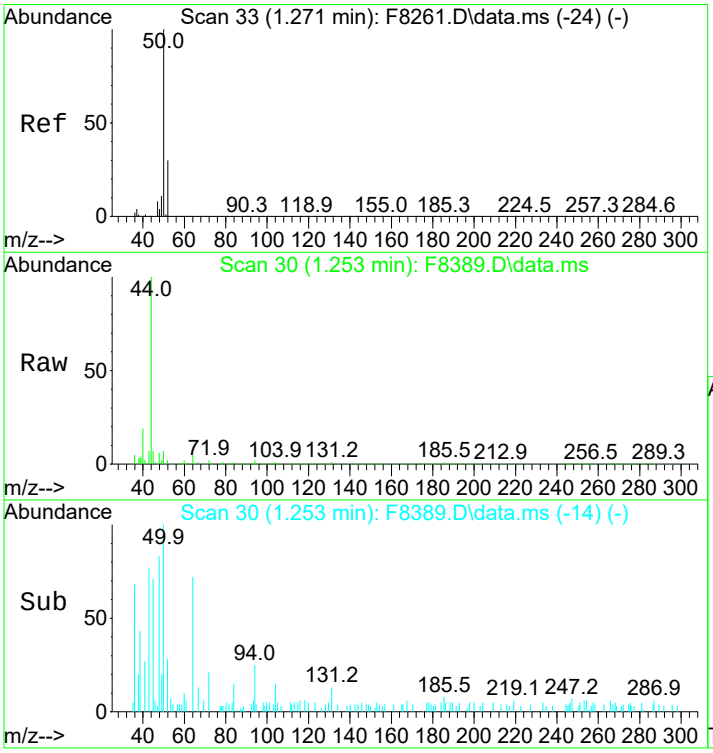
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8389.D
Acq On : 23 Feb 2024 08:32 pm
Operator : F.NAEGLER
Sample : R2401280-018
Misc : CEC 25499 T4
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Feb 25 12:24:36 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



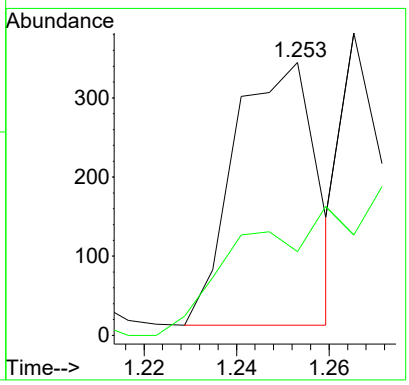
1st FJ 02/26/24
2nd AM 02/27/24

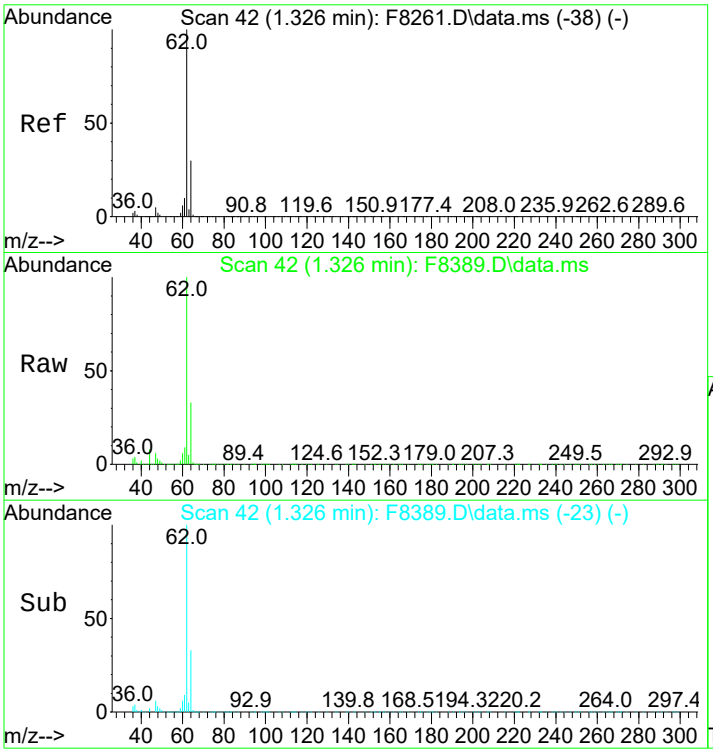


#4
Chloromethane
Concen: Below Cal
RT: 1.253 min Scan# 30
Delta R.T. -0.018 min
Lab File: F8389.D
Acq: 23 Feb 2024 08:32 pm

Tgt Ion: 50 Resp: 410

Ion	Ratio	Lower	Upper
50	100		
52	30.7	10.3	50.3

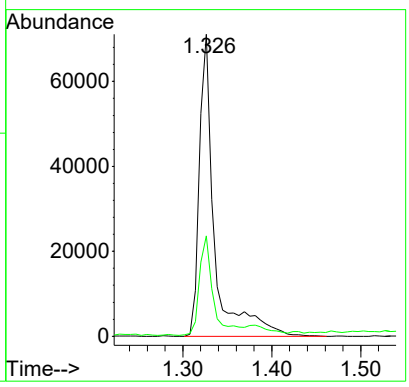


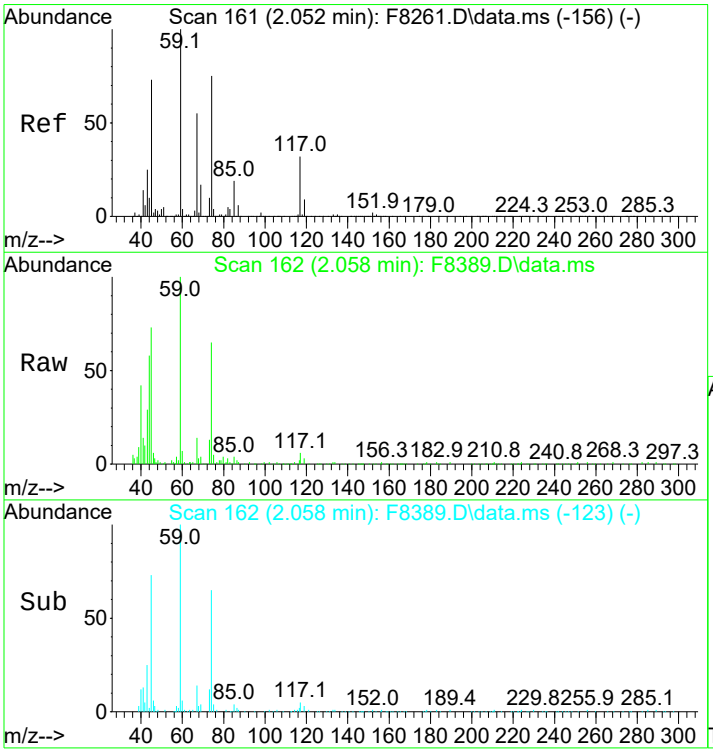


#5
Vinyl Chloride
Concen: 17.57 ug/L
RT: 1.326 min Scan# 42
Delta R.T. 0.000 min
Lab File: F8389.D
Acq: 23 Feb 2024 08:32 pm

Tgt Ion: 62 Resp: 83917

Ion	Ratio	Lower	Upper
62	100		
64	33.3	9.6	49.6

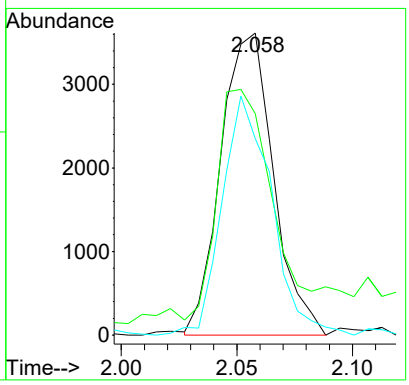


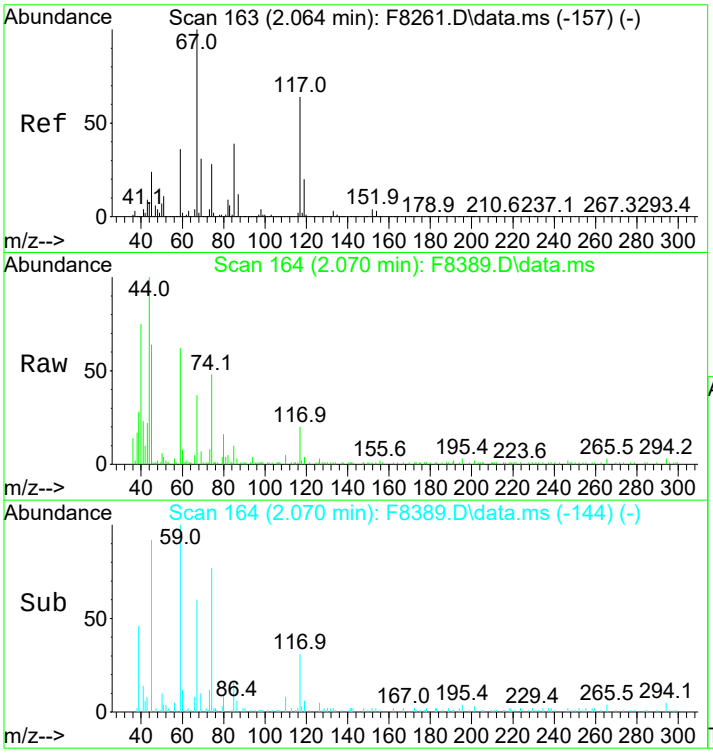


#10
Diethyl Ether
Concen: 1.54 ug/L
RT: 2.058 min Scan# 162
Delta R.T. 0.006 min
Lab File: F8389.D
Acq: 23 Feb 2024 08:32 pm

Tgt Ion: 59 Resp: 5705

Ion	Ratio	Lower	Upper
59	100		
45	73.3	53.1	93.1
74	65.1	55.0	95.0

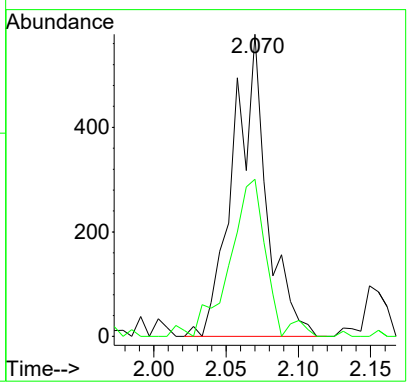


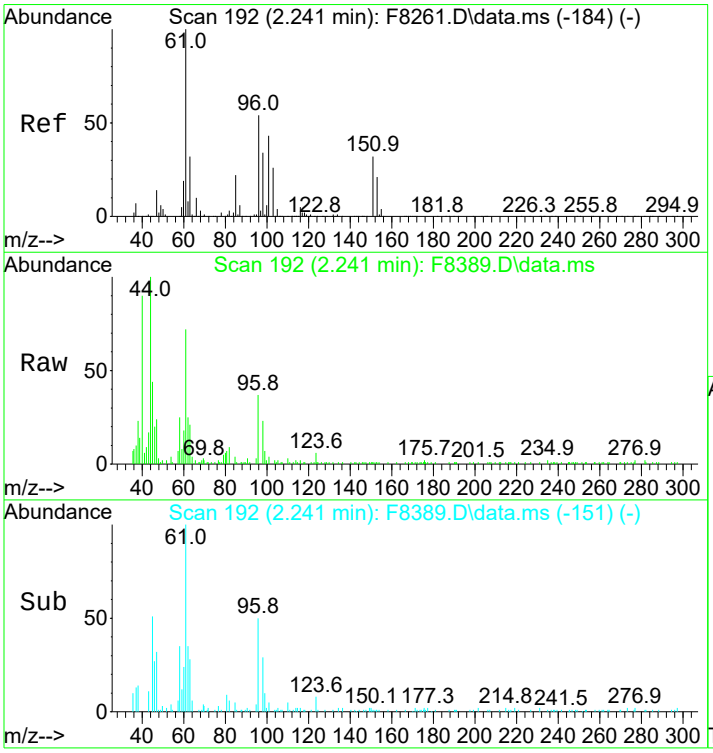


#11
Freon 123a
Concen: 0.21 ug/L
RT: 2.070 min Scan# 164
Delta R.T. 0.006 min
Lab File: F8389.D
Acq: 23 Feb 2024 08:32 pm

Tgt Ion: 67 Resp: 930

Ion	Ratio	Lower	Upper
67	100		
117	57.6	43.7	83.7

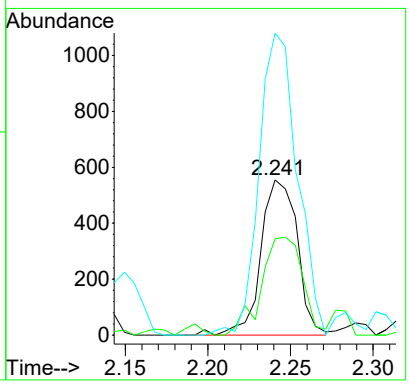


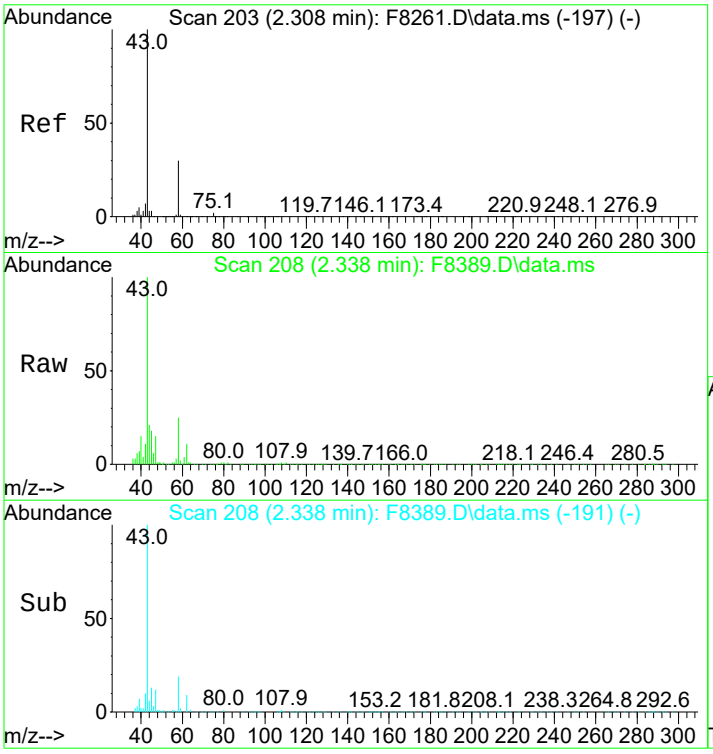


#14
1,1-Diclethene
Concen: 0.30 ug/L
RT: 2.241 min Scan# 192
Delta R.T. 0.000 min
Lab File: F8389.D
Acq: 23 Feb 2024 08:32 pm

Tgt Ion: 96 Resp: 852

Ion	Ratio	Lower	Upper
96	100		
98	62.0	43.9	83.9
61	194.6	165.5	205.5

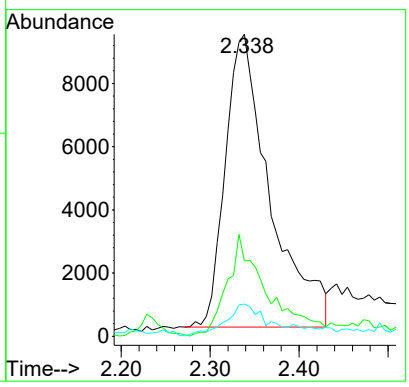


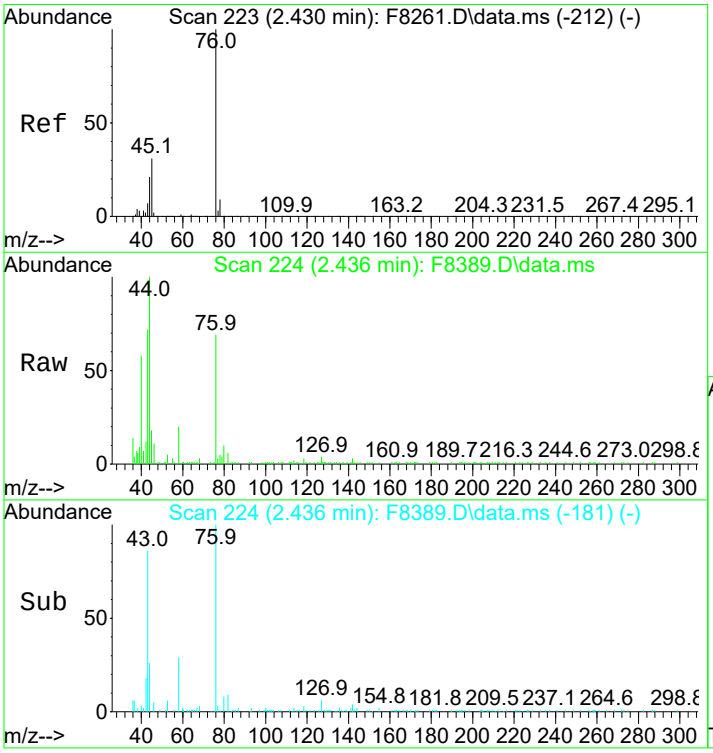


#16
Acetone
Concen: 13.90 ug/L
RT: 2.338 min Scan# 208
Delta R.T. 0.031 min
Lab File: F8389.D
Acq: 23 Feb 2024 08:32 pm

Tgt Ion: 43 Resp: 32453

Ion	Ratio	Lower	Upper
43	100		
58	25.0	10.0	50.0
42	10.7	0.0	27.2

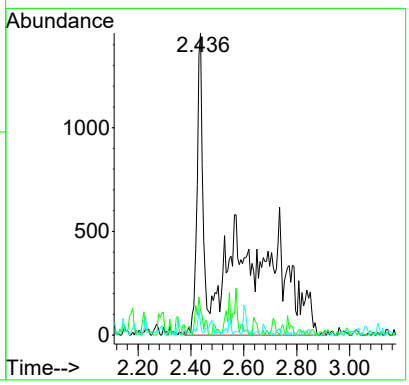


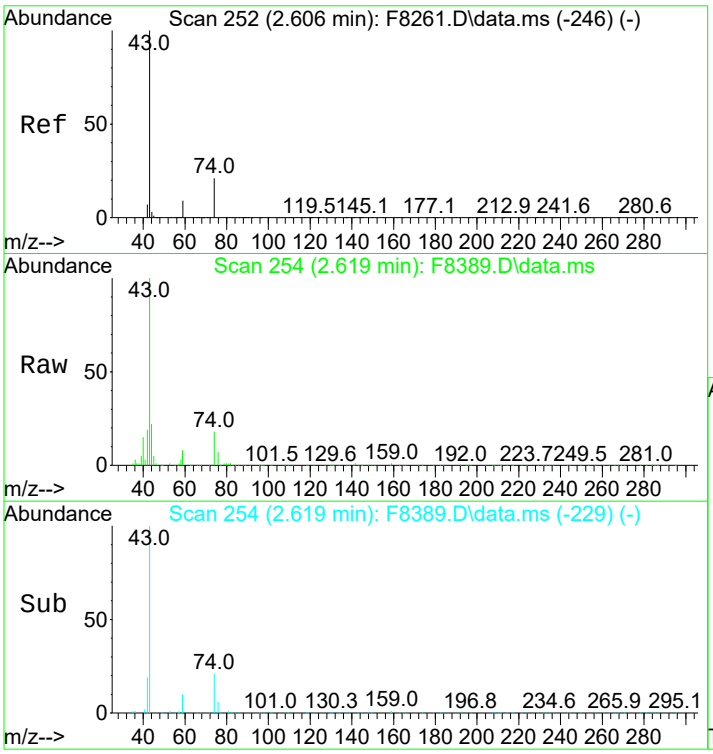


#19
Carbon Disulfide
Concen: 1.07 ug/L m
RT: 2.436 min Scan# 224
Delta R.T. 0.006 min
Lab File: F8389.D
Acq: 23 Feb 2024 08:32 pm

Tgt Ion: 76 Resp: 9288

Ion	Ratio	Lower	Upper
76	100		
78	7.9	0.0	29.4
77	3.7	0.0	22.9

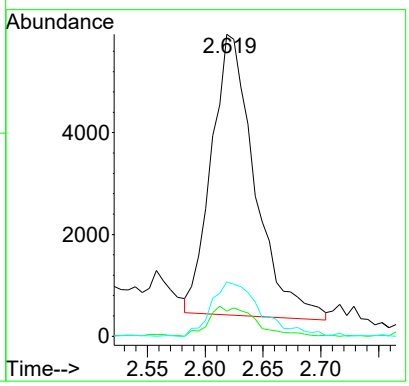


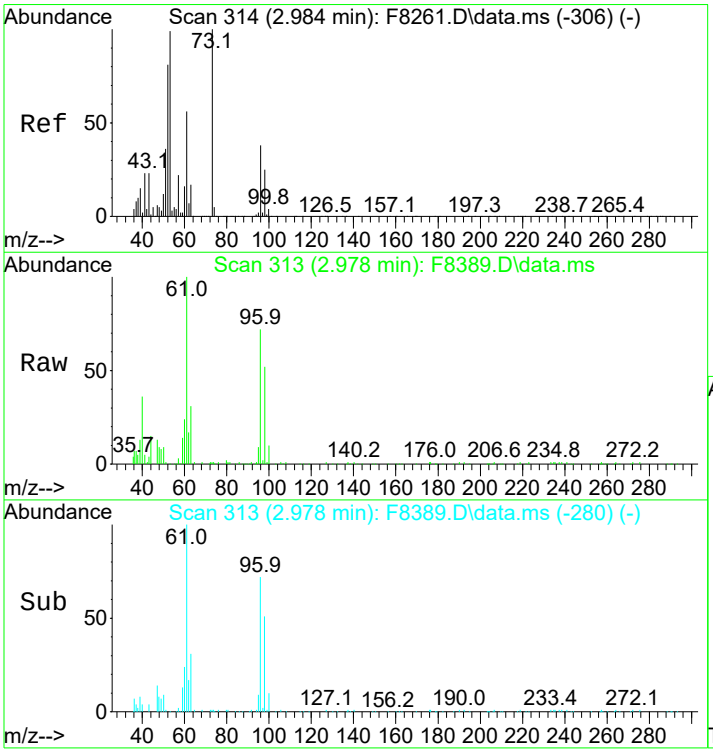


#22
Methyl Acetate
Concen: 2.50 ug/L
RT: 2.619 min Scan# 254
Delta R.T. 0.012 min
Lab File: F8389.D
Acq: 23 Feb 2024 08:32 pm

Tgt Ion: 43 Resp: 14382

Ion	Ratio	Lower	Upper
43	100		
59	8.4	0.0	28.7
74	17.9	1.6	41.6

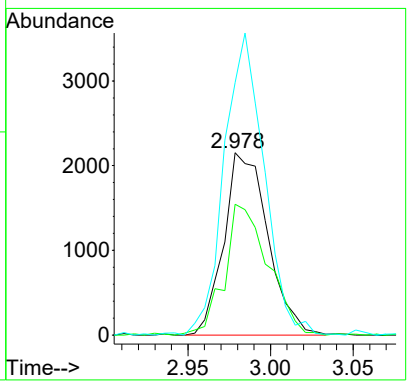


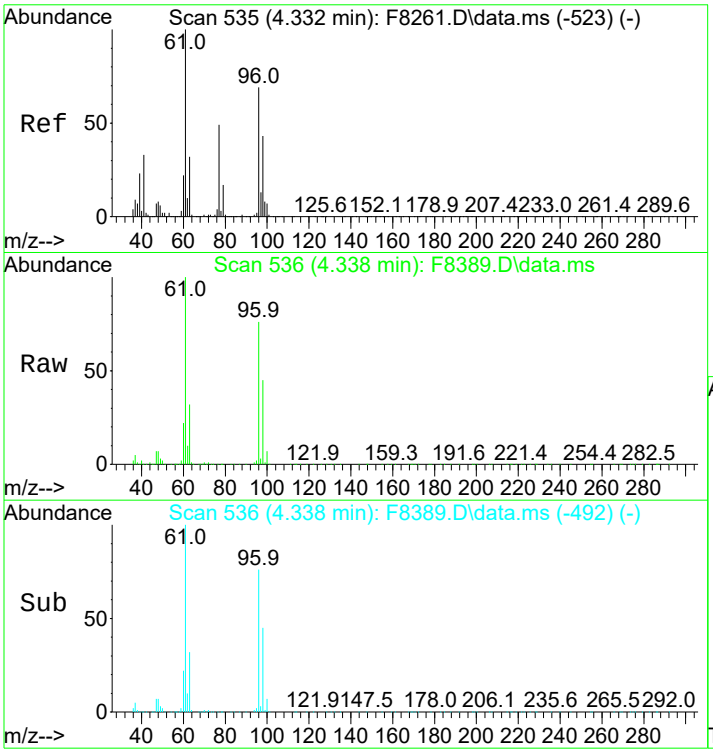


#27
trans-1,2-Dichloroethene
Concen: 1.18 ug/L
RT: 2.978 min Scan# 313
Delta R.T. -0.006 min
Lab File: F8389.D
Acq: 23 Feb 2024 08:32 pm

Tgt Ion: 96 Resp: 4001

Ion	Ratio	Lower	Upper
96	100		
98	71.7	45.9	85.9
61	138.5	128.4	168.4

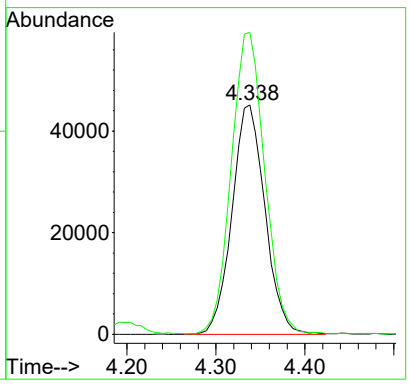


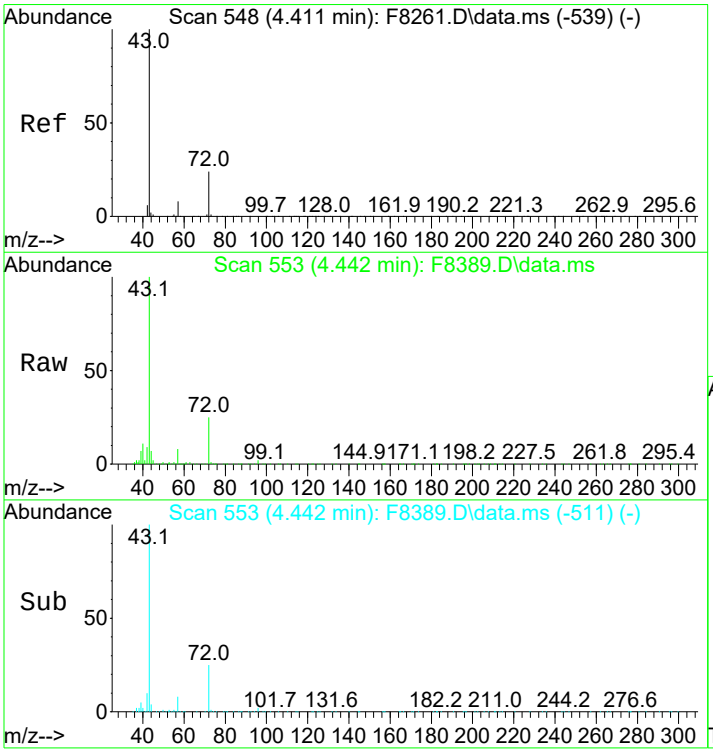


#34
cis-1,2-Dichloroethene
Concen: 29.06 ug/L
RT: 4.338 min Scan# 536
Delta R.T. 0.006 min
Lab File: F8389.D
Acq: 23 Feb 2024 08:32 pm

Tgt Ion: 96 Resp: 116457

Ion	Ratio	Lower	Upper
96	100		
61	131.7	124.5	164.5

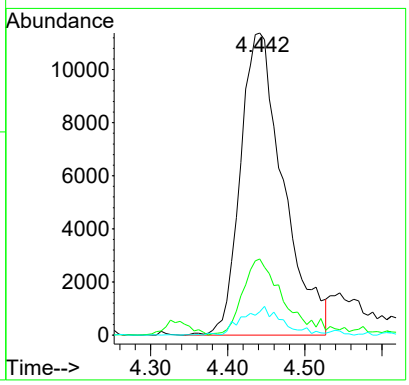


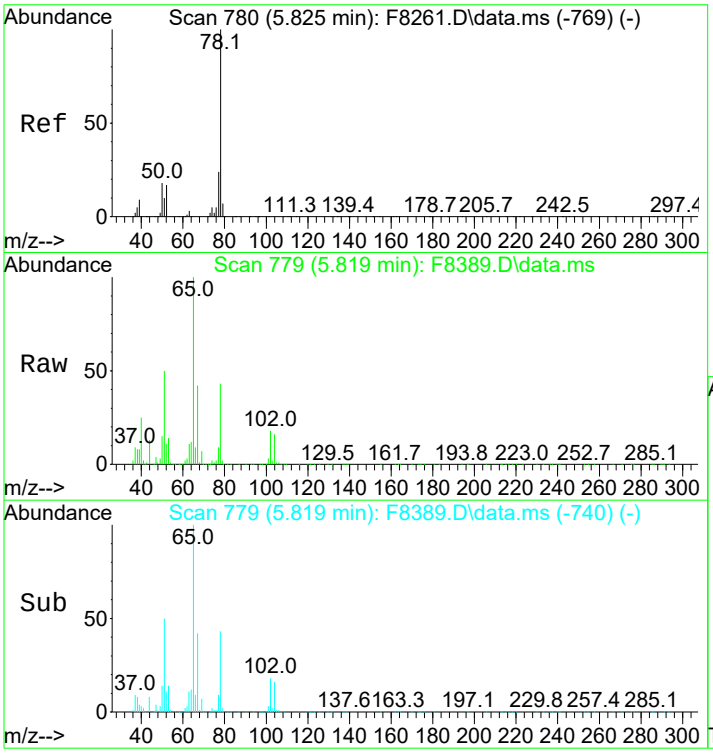


#35
2-Butanone
Concen: 13.81 ug/L
RT: 4.442 min Scan# 553
Delta R.T. 0.031 min
Lab File: F8389.D
Acq: 23 Feb 2024 08:32 pm

Tgt Ion: 43 Resp: 43825

Ion	Ratio	Lower	Upper
43	100		
72	25.2	4.5	44.5
57	8.0	0.0	27.8

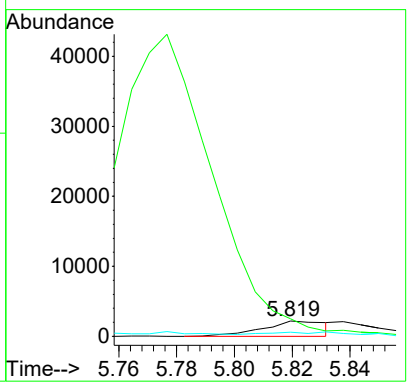


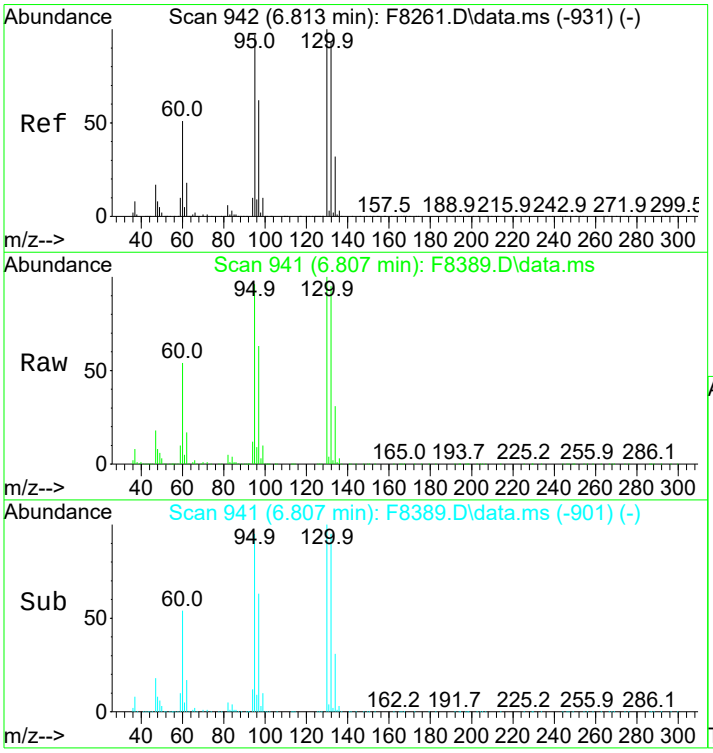


#49
Benzene
Concen: 0.24 ug/L
RT: 5.819 min Scan# 779
Delta R.T. -0.006 min
Lab File: F8389.D
Acq: 23 Feb 2024 08:32 pm

Tgt Ion: 78 Resp: 3334

Ion	Ratio	Lower	Upper
78	100		
51	109.9	0.0	38.9#
52	25.3	0.0	36.8

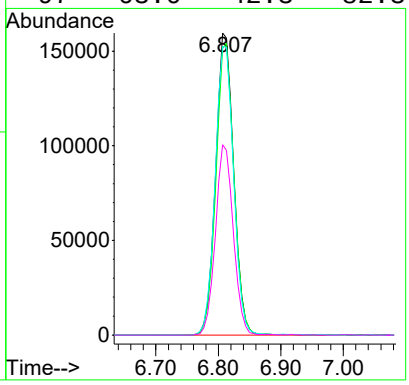


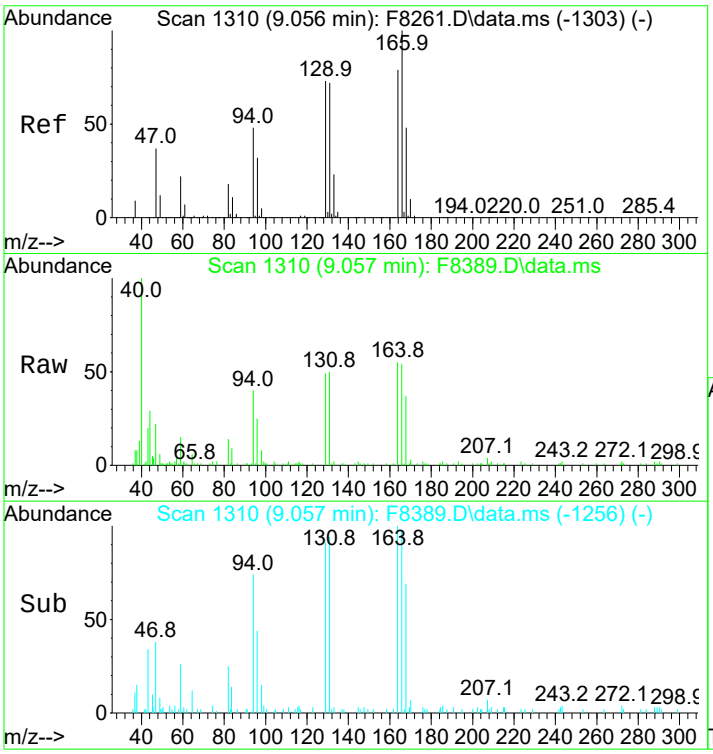


#54
Trichloroethene
Concen: 84.98 ug/L
RT: 6.807 min Scan# 941
Delta R.T. -0.006 min
Lab File: F8389.D
Acq: 23 Feb 2024 08:32 pm

Tgt Ion:130 Resp: 320731

Ion	Ratio	Lower	Upper
130	100		
132	94.9	73.2	113.2
95	95.5	77.2	117.2
97	63.0	42.3	82.3

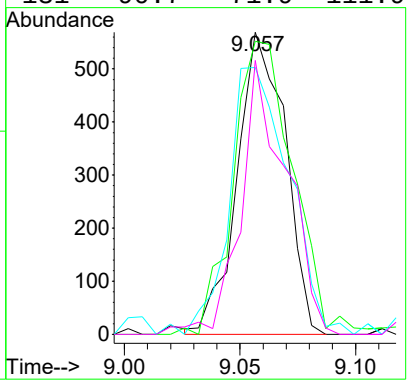


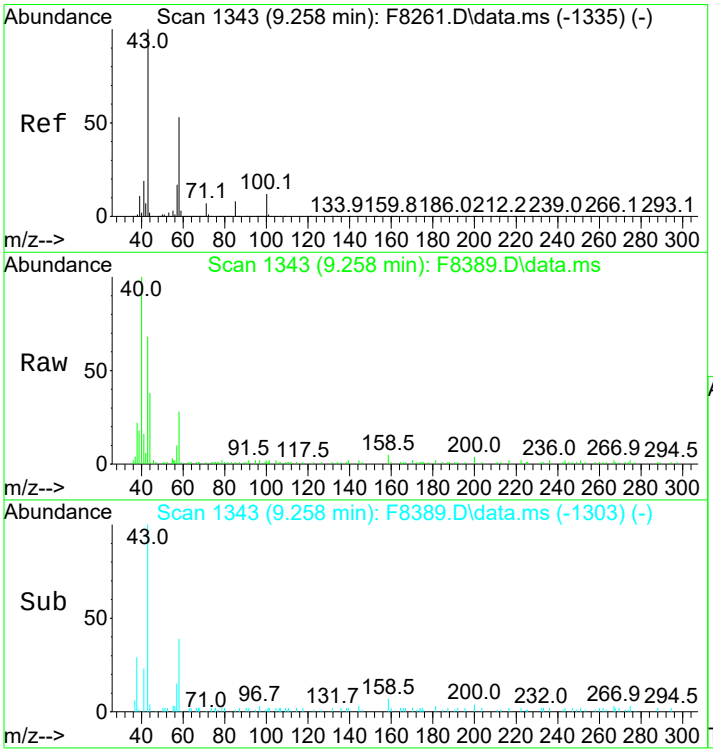


#72
Tetrachloroethene
Concen: 0.29 ug/L
RT: 9.057 min Scan# 1310
Delta R.T. 0.000 min
Lab File: F8389.D
Acq: 23 Feb 2024 08:32 pm

Tgt Ion:164 Resp: 820

Ion	Ratio	Lower	Upper
164	100		
166	97.0	107.3	147.3#
129	88.4	73.1	113.1
131	90.7	71.9	111.9

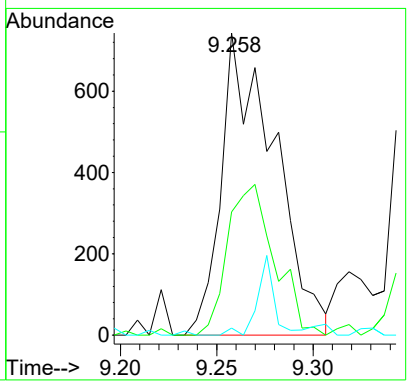


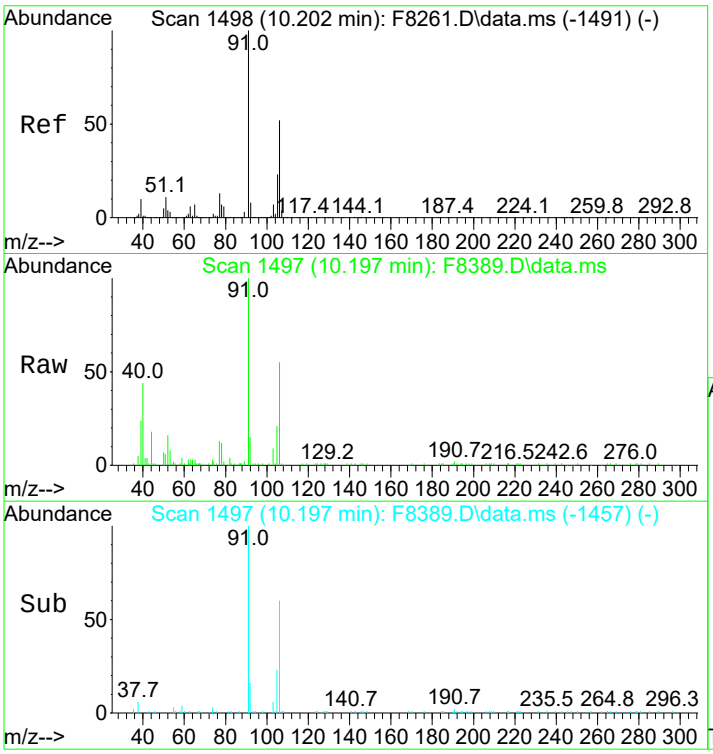


#73
2-Hexanone
Concen: 0.31 ug/L
RT: 9.258 min Scan# 1343
Delta R.T. 0.000 min
Lab File: F8389.D
Acq: 23 Feb 2024 08:32 pm

Tgt Ion: 43 Resp: 1425

Ion	Ratio	Lower	Upper
43	100		
58	40.8	32.7	72.7
100	4.3	0.0	32.1

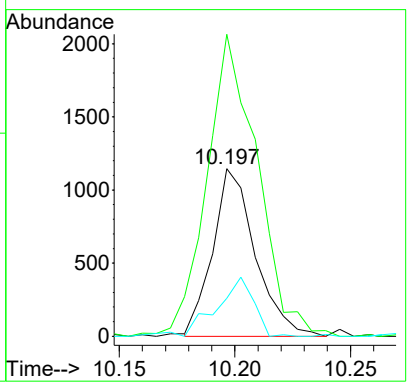




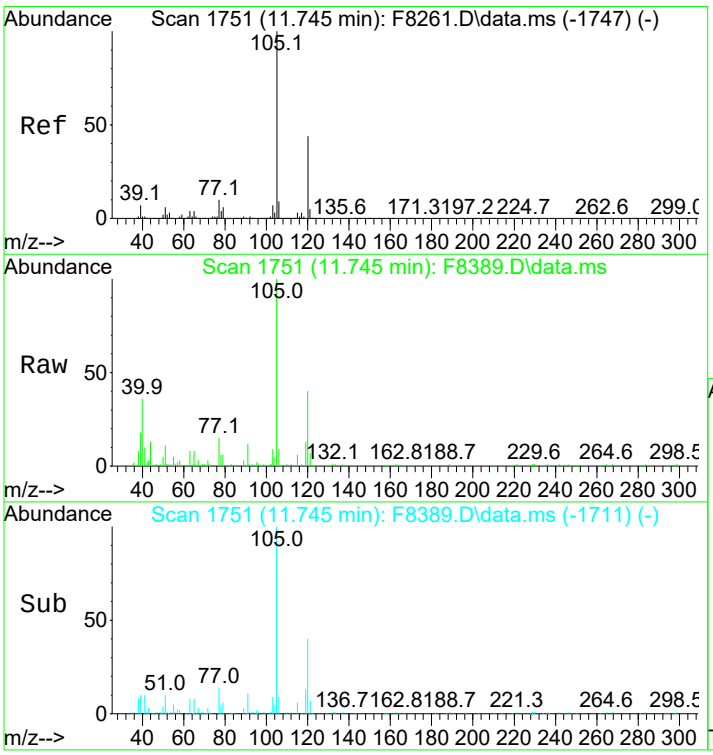
#83
(m+p)Xylene
Concen: 0.22 ug/L
RT: 10.197 min Scan# 1497
Delta R.T. -0.006 min
Lab File: F8389.D
Acq: 23 Feb 2024 08:32 pm

Tgt Ion:106 Resp: 1464

Ion	Ratio	Lower	Upper
106	100		
91	180.3	173.9	213.9
77	22.6	6.1	46.1



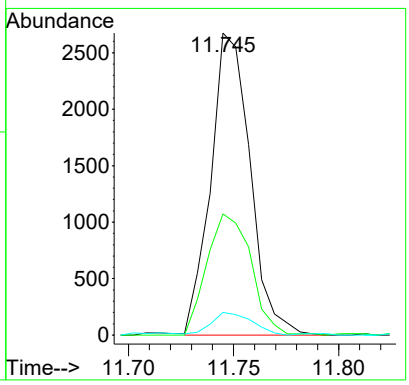
1st FW 02/26/24
2nd AM 02/27/24



#101
1,2,4-Trimethylbenzene
Concen: 0.26 ug/L
RT: 11.745 min Scan# 1751
Delta R.T. 0.000 min
Lab File: F8389.D
Acq: 23 Feb 2024 08:32 pm

Tgt Ion:105 Resp: 3489

Ion	Ratio	Lower	Upper
105	100		
120	40.2	26.2	66.2
65	7.6	0.0	24.7



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8414.D
Acq On : 25 Feb 2024 08:21 pm
Operator : F.NAEGLER
Sample : R2401280-019
Misc : CEC 25499 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 26 09:03:10 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

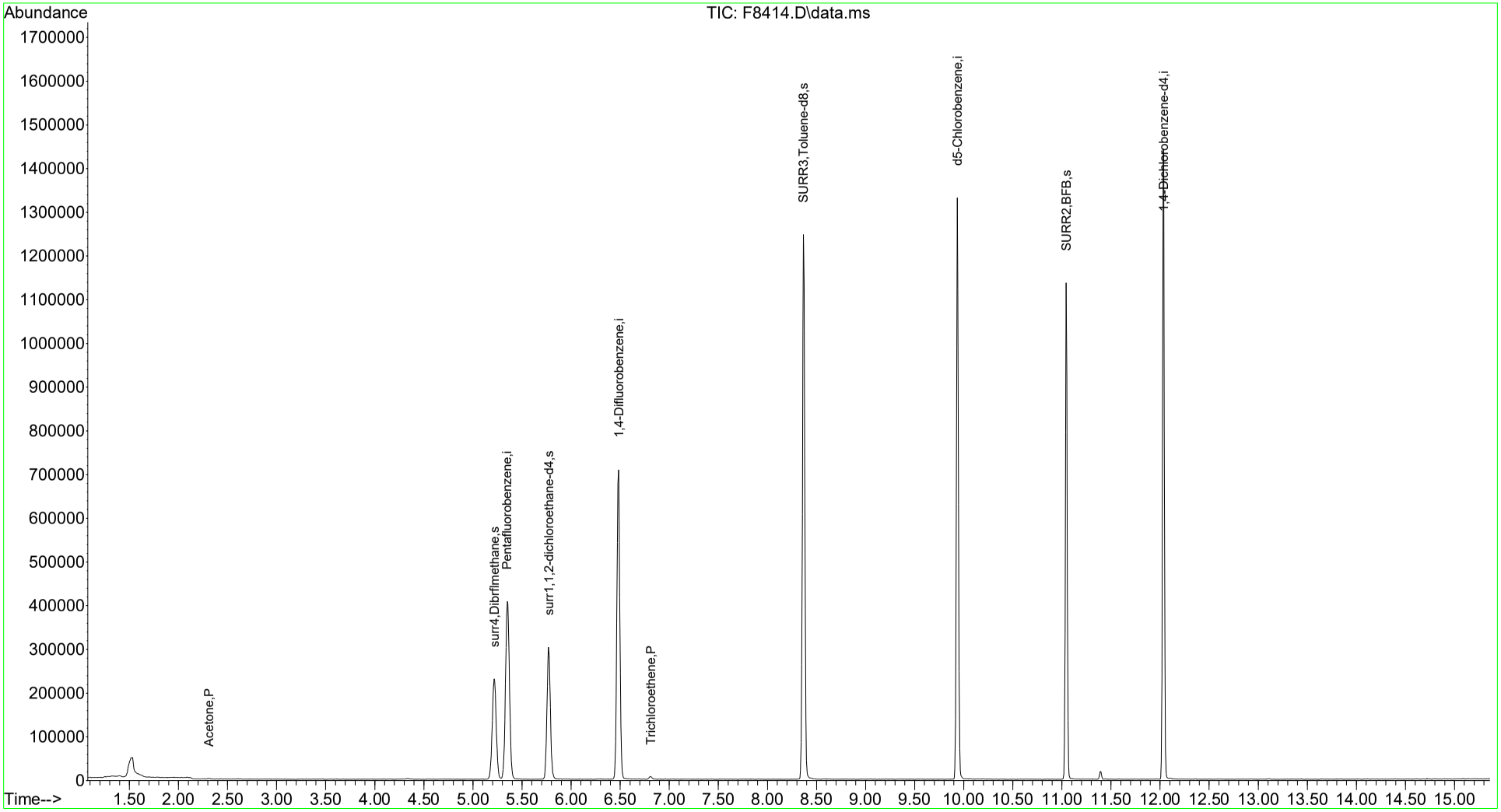
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.350	168	391178	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.484	114	621263	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.934	117	581512	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	12.038	152	287647	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.216	113	190451	47.82	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 95.64%			
48) surr1,1,2-dichloroetha...	5.770	65	262554	50.23	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.46%			
65) SURR3,Toluene-d8	8.368	98	768208	47.42	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 94.84%			
70) SURR2,BFB	11.044	95	271868	44.18	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 88.36%			
Target Compounds						Qvalue
4) Chloromethane	1.247	50	699	Below Cal		90
16) Acetone	2.308	43	1785	0.769	ug/L	74
54) Trichloroethene	6.813	130	2100	0.564	ug/L #	84

(#) = qualifier out of range (m) = manual integration (+) = signals summed

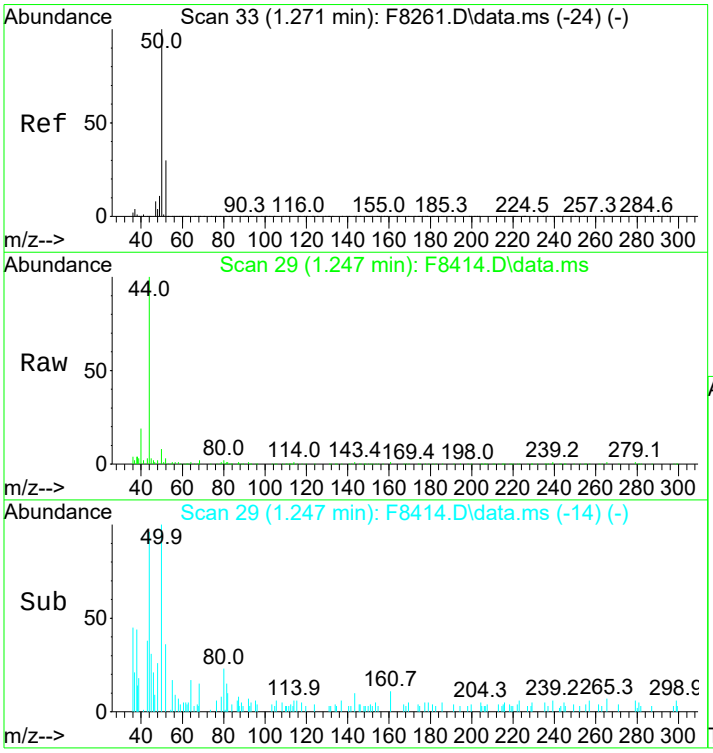
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8414.D
Acq On : 25 Feb 2024 08:21 pm
Operator : F.NAEGLER
Sample : R2401280-019
Misc : CEC 25499 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 26 09:03:10 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



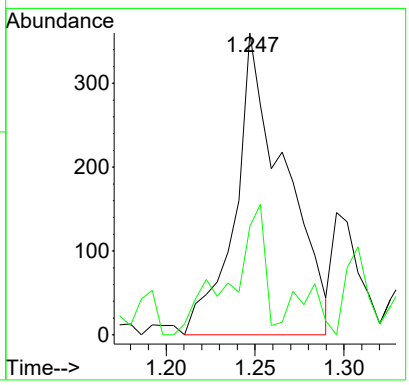
1st FJ 02/27/24
2nd AM 02/28/24

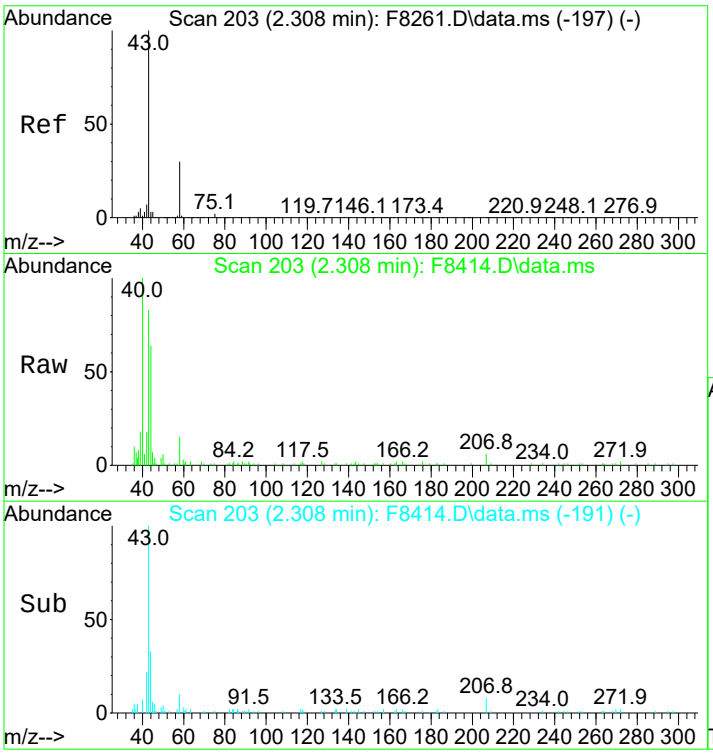


#4
Chloromethane
Concen: Below Cal
RT: 1.247 min Scan# 29
Delta R.T. -0.024 min
Lab File: F8414.D
Acq: 25 Feb 2024 08:21 pm

Tgt Ion: 50 Resp: 699

Ion	Ratio	Lower	Upper
50	100		
52	35.8	10.3	50.3

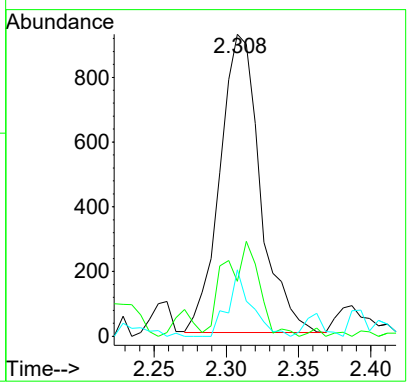




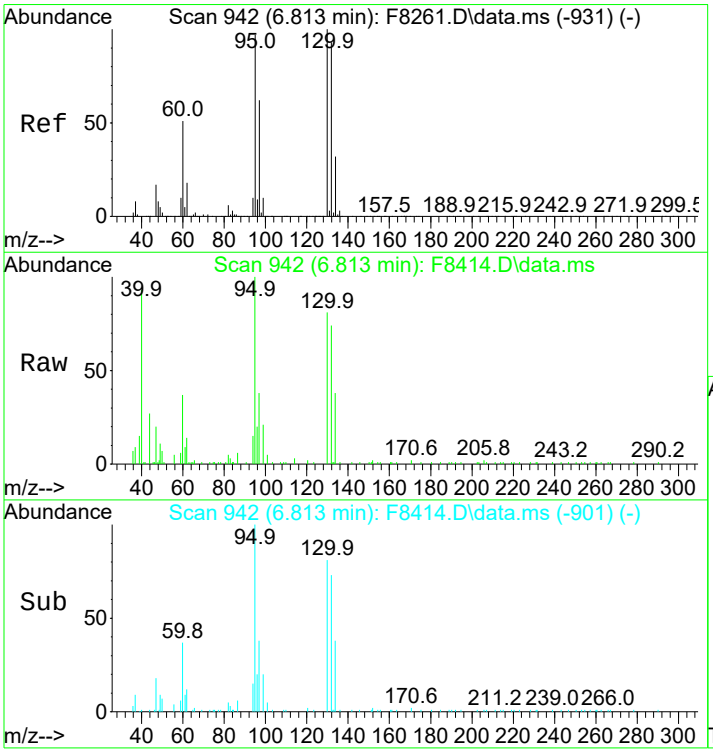
#16
Acetone
Concen: 0.77 ug/L
RT: 2.308 min Scan# 203
Delta R.T. 0.000 min
Lab File: F8414.D
Acq: 25 Feb 2024 08:21 pm

Tgt Ion: 43 Resp: 1785

Ion	Ratio	Lower	Upper
43	100		
58	18.2	10.0	50.0
42	22.0	0.0	27.2



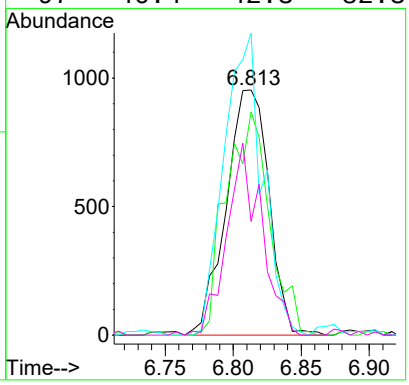
1st FW 02/27/24
2nd AM 02/28/24



#54
Trichloroethene
Concen: 0.56 ug/L
RT: 6.813 min Scan# 942
Delta R.T. 0.000 min
Lab File: F8414.D
Acq: 25 Feb 2024 08:21 pm

Tgt Ion:130 Resp: 2100

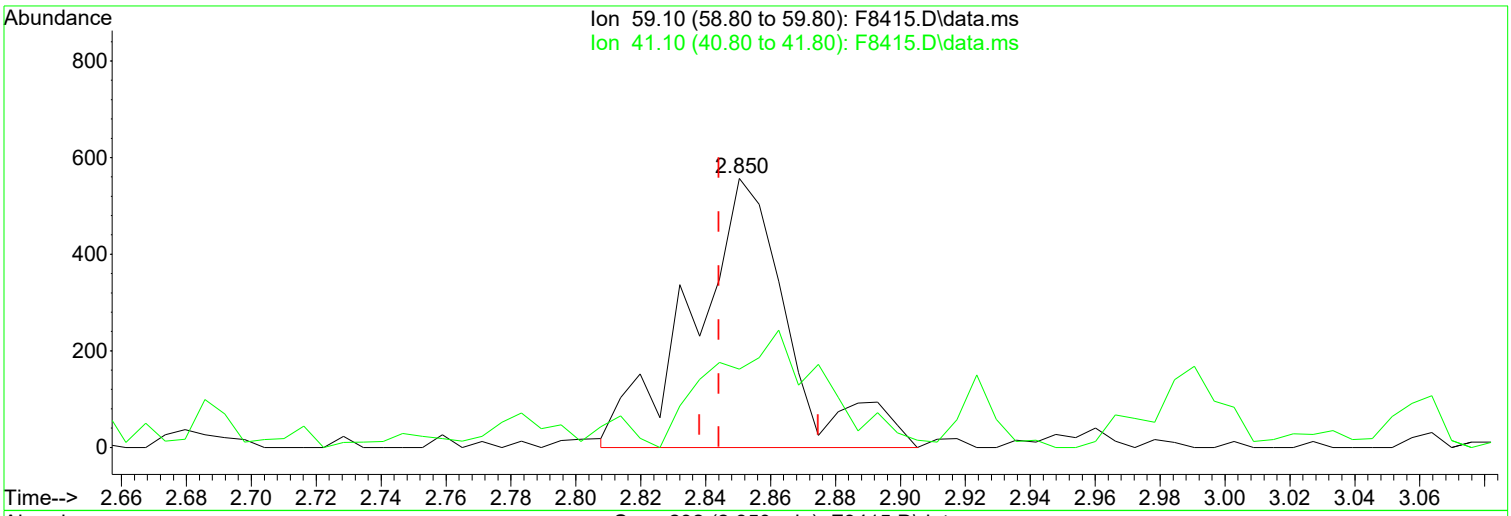
Ion	Ratio	Lower	Upper
130	100		
132	91.2	73.2	113.2
95	123.3	77.2	117.2#
97	46.4	42.3	82.3

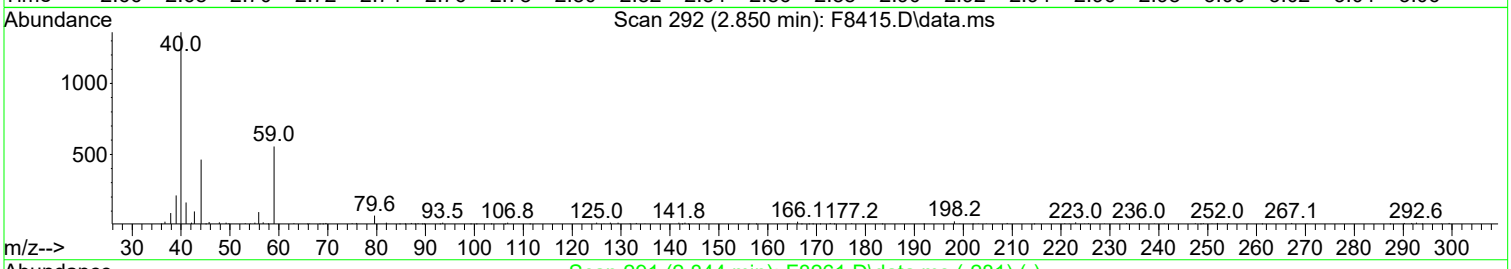


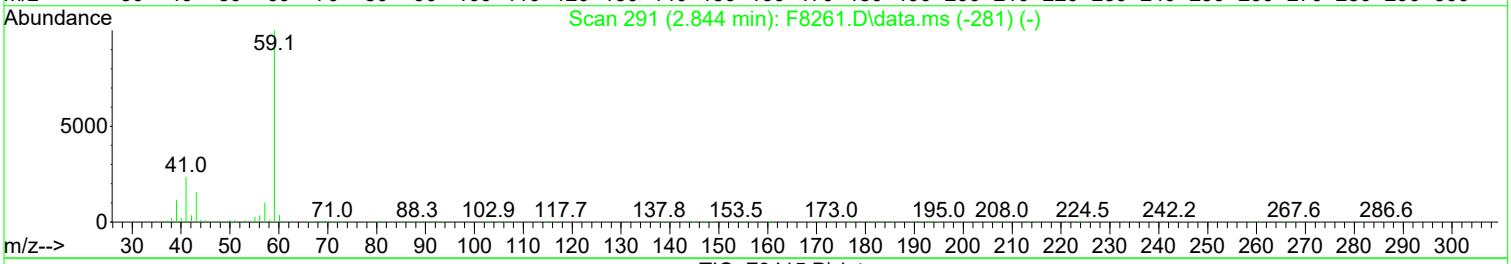
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8415.D
Acq On : 25 Feb 2024 08:44 pm
Operator : F.NAEGLER
Sample : R2401280-020
Misc : CEC 25499 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 26 09:03:26 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8415.D\data.ms

(24) TBA

2.850min (+ 0.006) 1.72 ug/L m

response 1142

Ion	Exp%	Act%
59.10	100.00	100.00
41.10	23.60	29.08
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

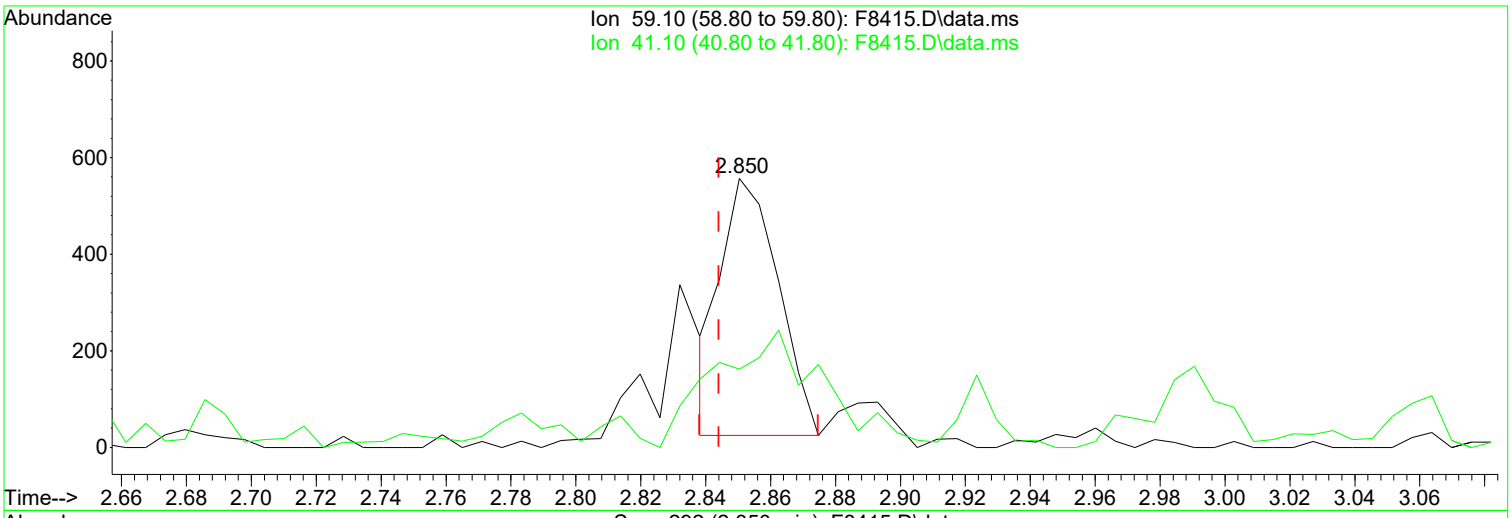
Poor integration.

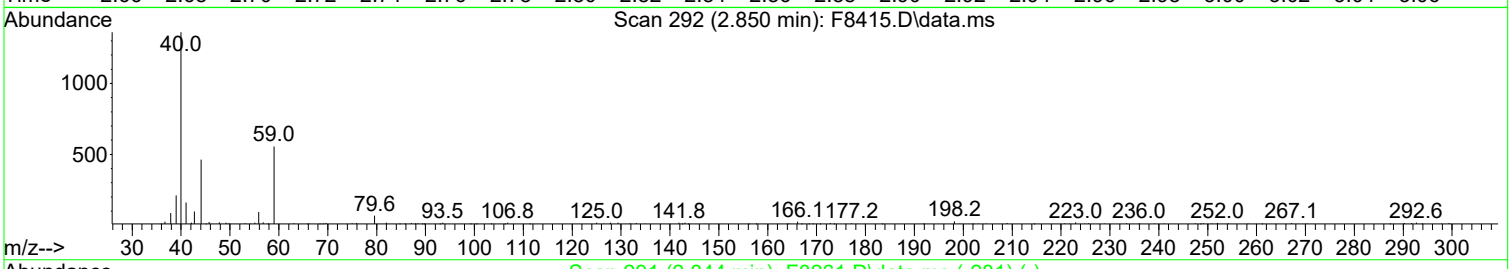
02/27/24

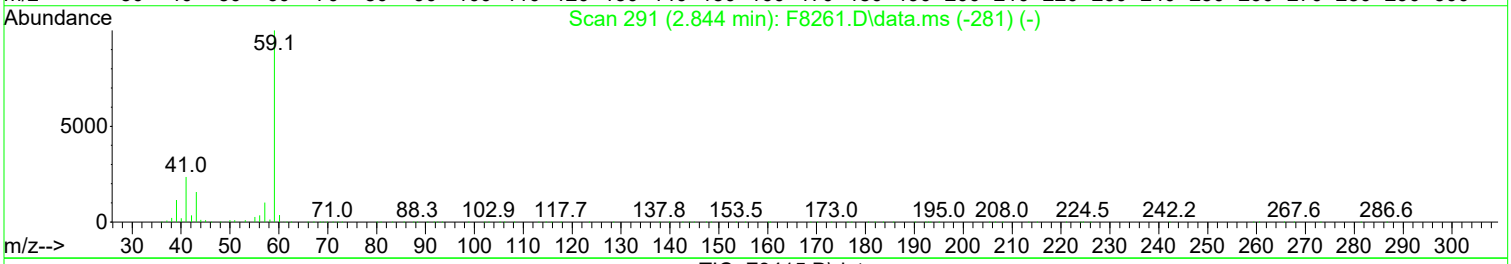
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8415.D
Acq On : 25 Feb 2024 08:44 pm
Operator : F.NAEGLER
Sample : R2401280-020
Misc : CEC 25499 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 26 09:03:26 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8415.D\data.ms

(24) TBA

2.850min (+ 0.006) 0.98 ug/L

response 652

Ion	Exp%	Act%
59.10	100.00	100.00
41.10	23.60	29.08
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

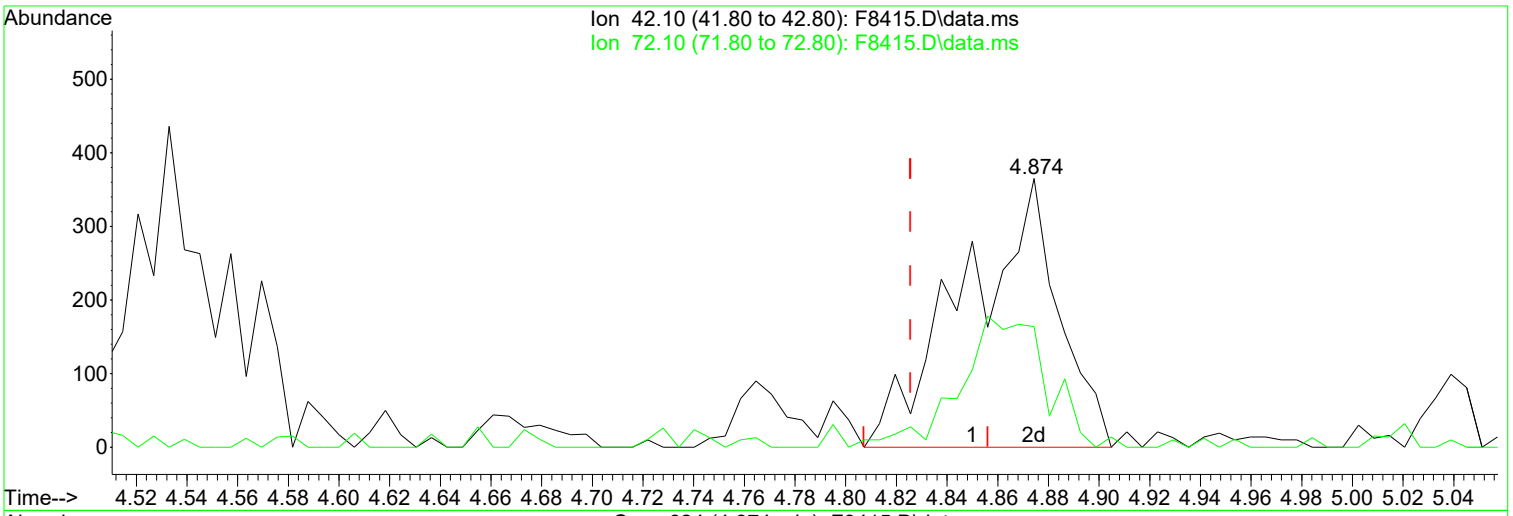
Before

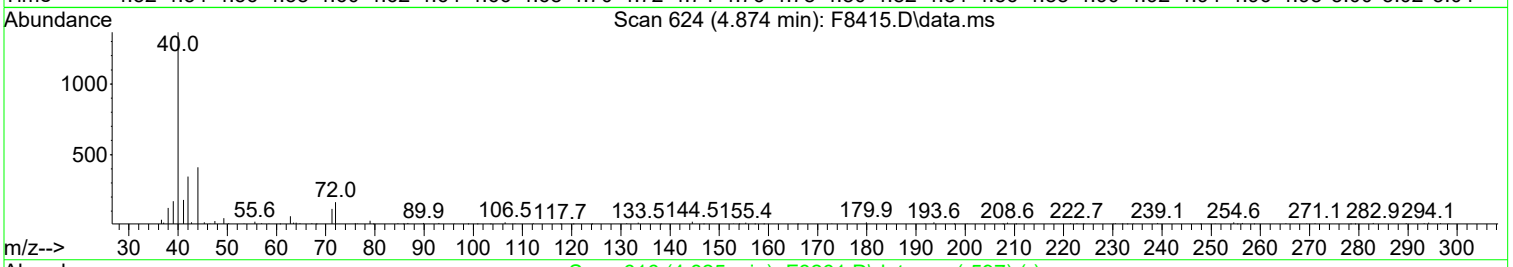
02/27/24

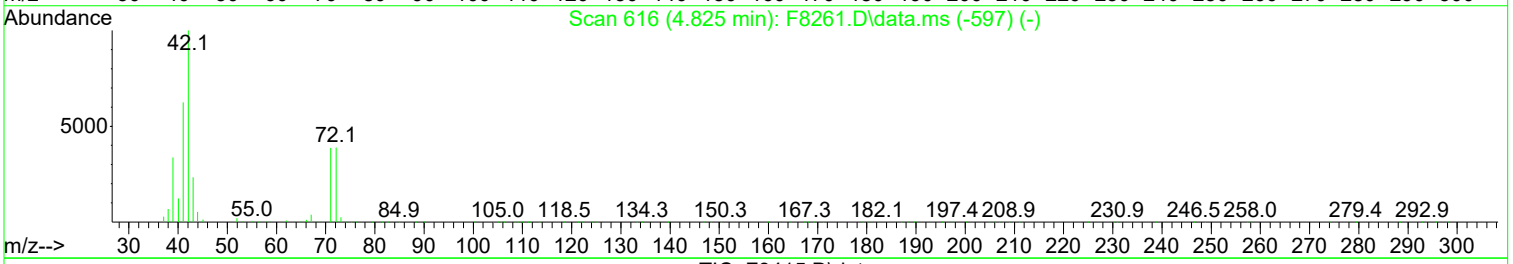
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8415.D
Acq On : 25 Feb 2024 08:44 pm
Operator : F.NAEGLER
Sample : R2401280-020
Misc : CEC 25499 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 26 09:03:26 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8415.D\data.ms

(39) Tetrahydrofuran

4.874min (+ 0.049) 0.44 ug/L m

response 941

Ion	Exp%	Act%
42.10	100.00	100.00
72.10	38.90	47.67
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

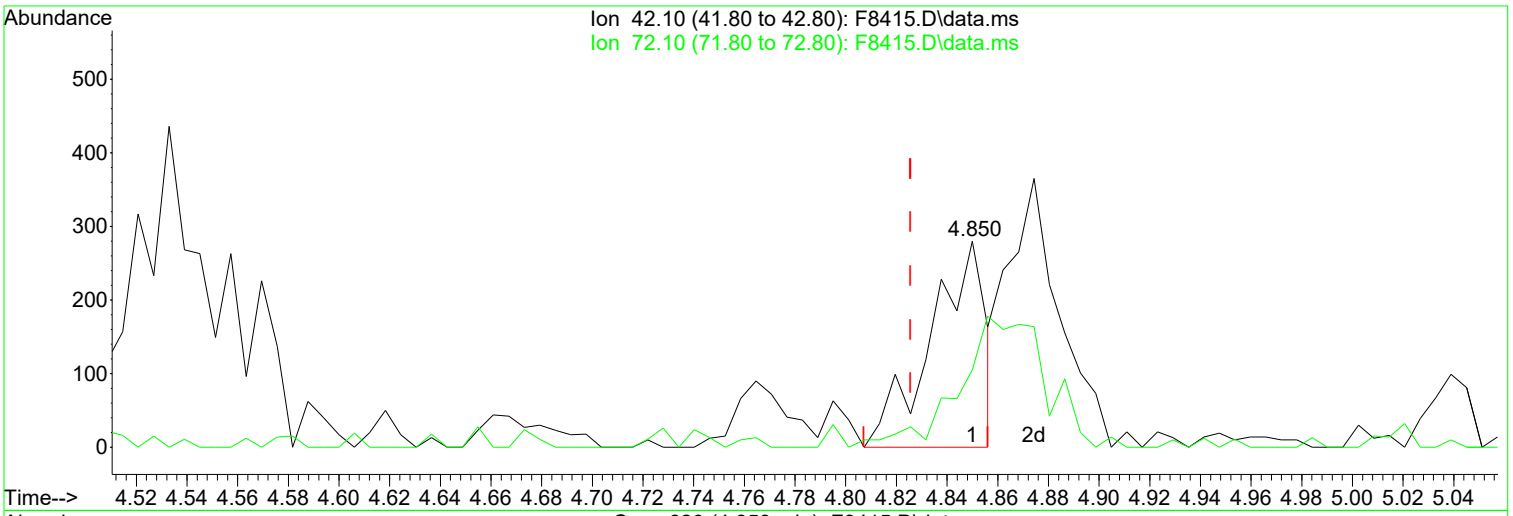
Poor integration.

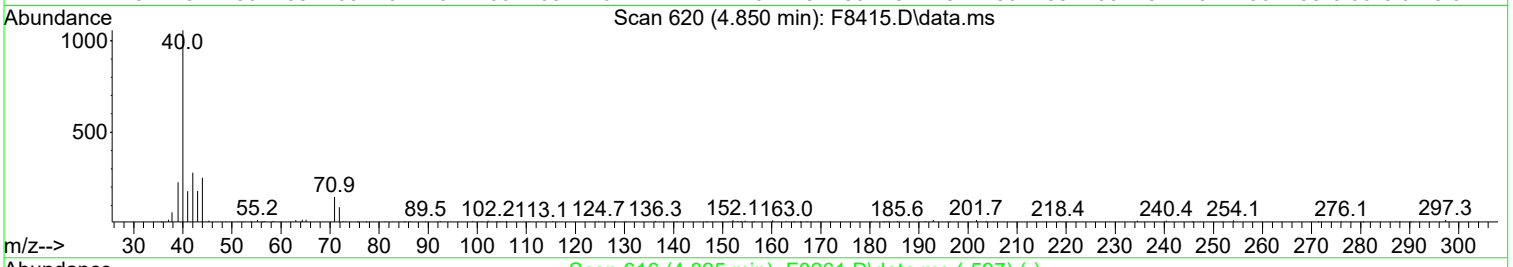
02/27/24

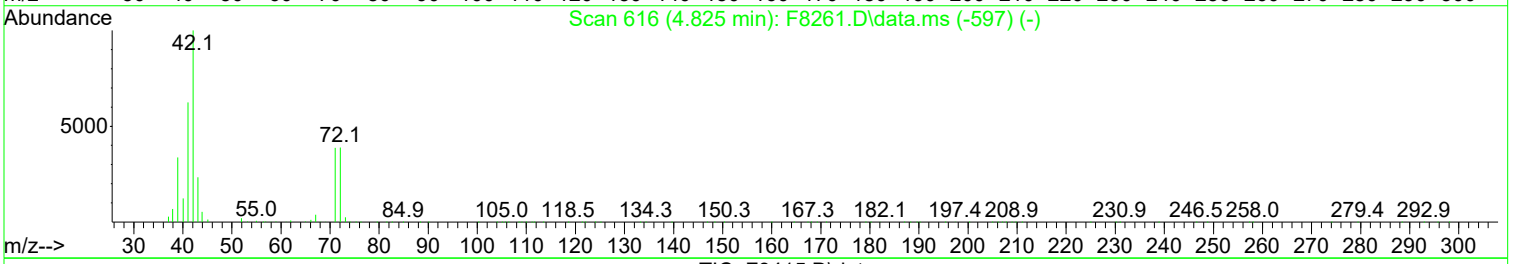
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8415.D
Acq On : 25 Feb 2024 08:44 pm
Operator : F.NAEGLER
Sample : R2401280-020
Misc : CEC 25499 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 26 09:03:26 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8415.D\data.ms

(39) Tetrahydrofuran

4.850min (+ 0.024) 0.20 ug/L

response 421

Ion	Exp%	Act%
42.10	100.00	100.00
72.10	38.90	37.50
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

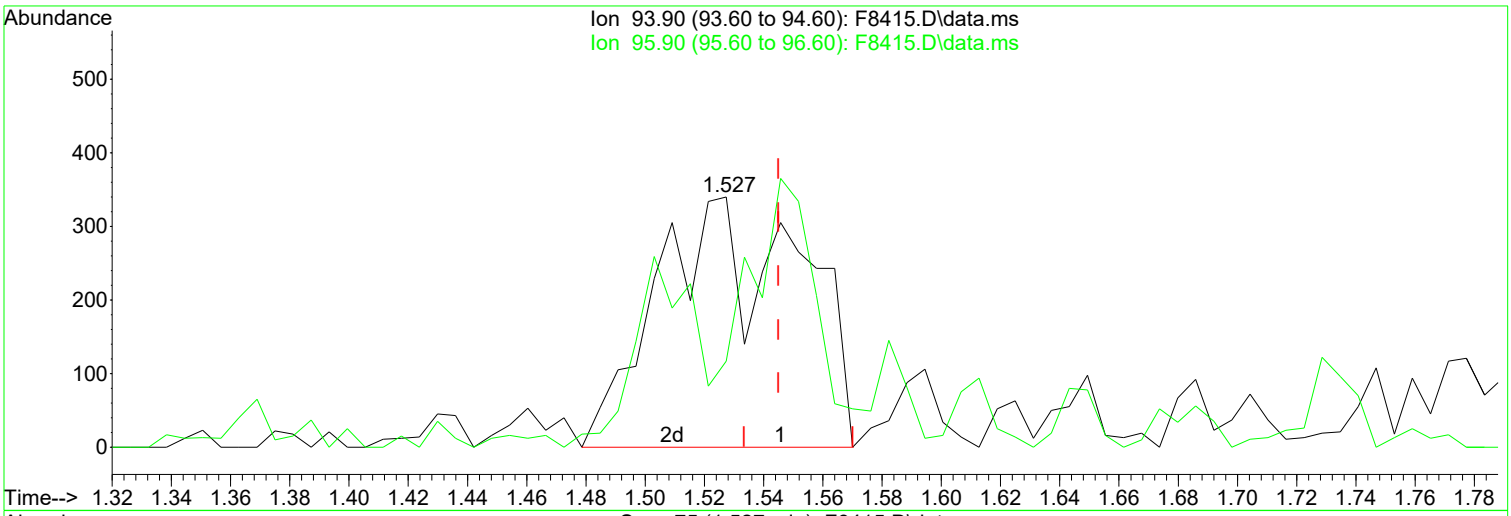
Before

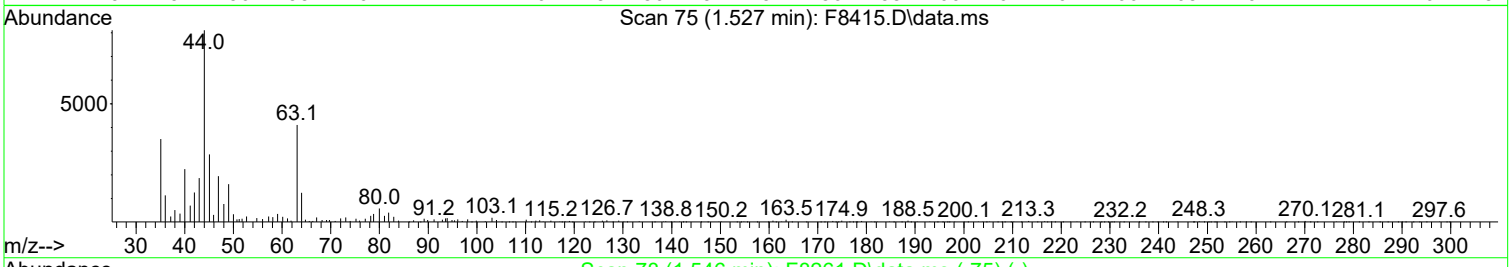
02/27/24

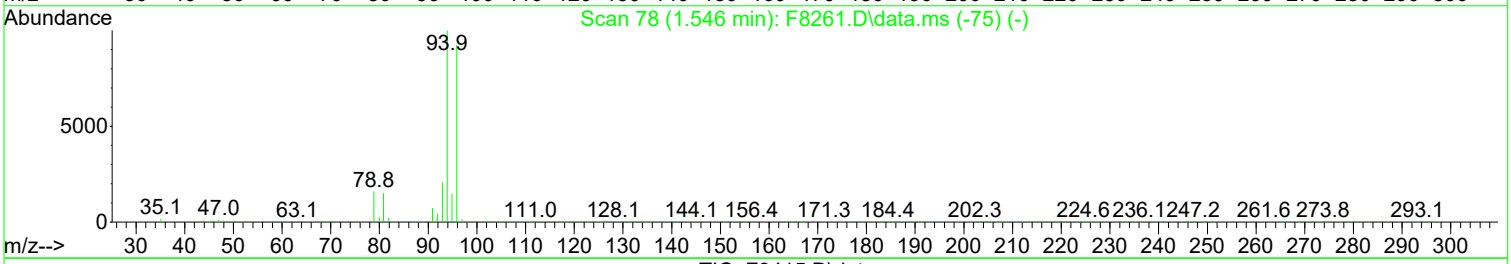
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8415.D
Acq On : 25 Feb 2024 08:44 pm
Operator : F.NAEGLER
Sample : R2401280-020
Misc : CEC 25499 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 26 09:03:26 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8415.D\data.ms

(6) Bromomethane (P)

1.527min (-0.018) 0.39 ug/L m

response 1138

Ion	Exp%	Act%
93.90	100.00	100.00
95.90	92.30	65.73#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

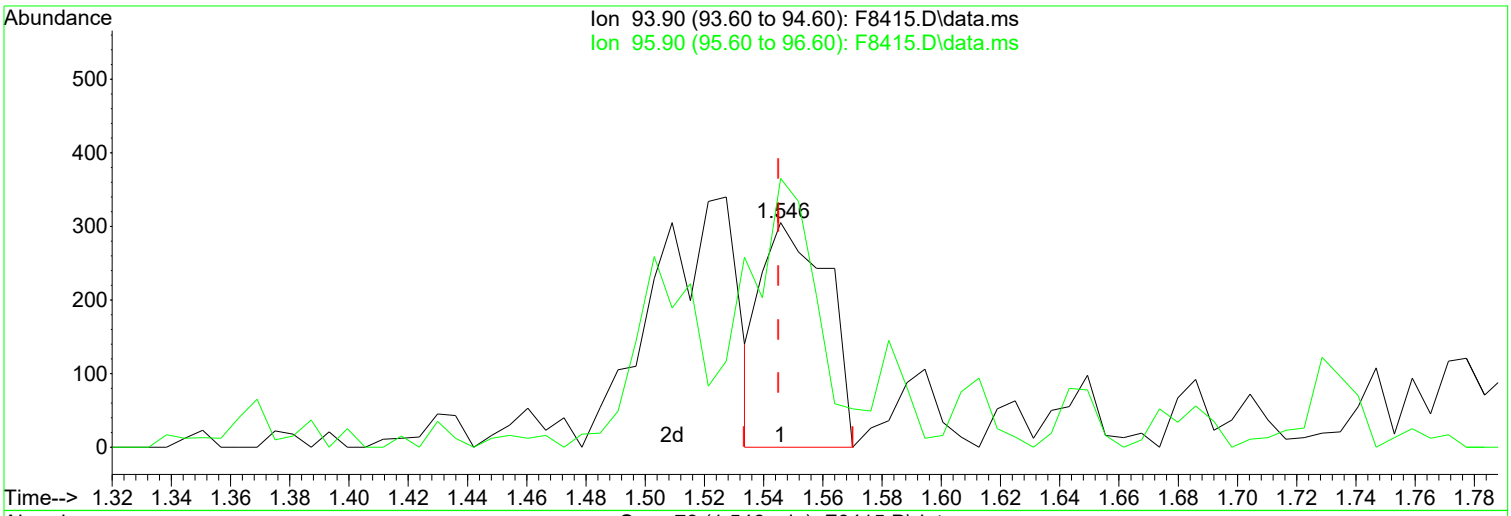
Poor integration.

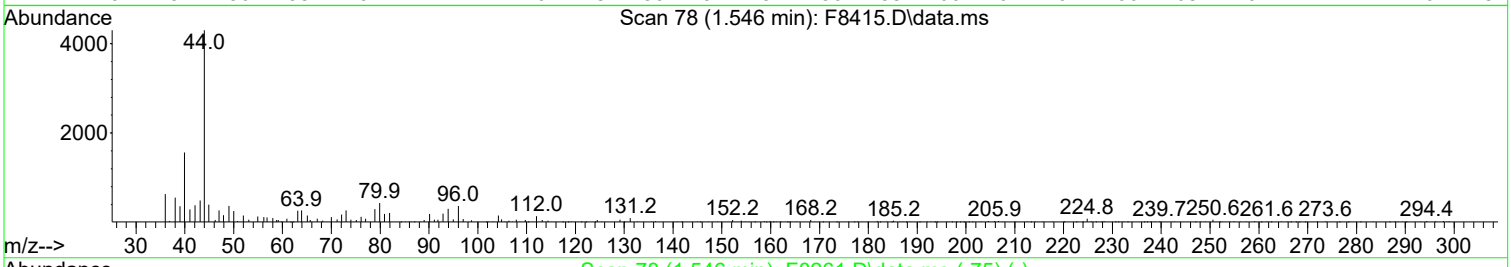
02/27/24

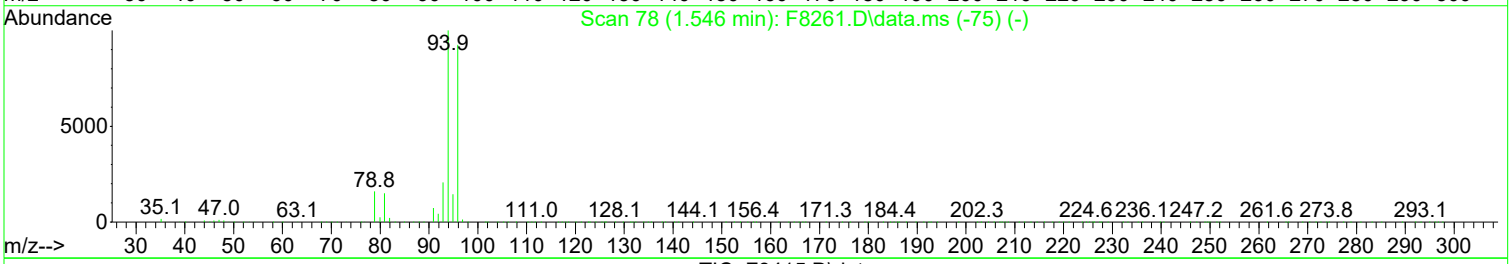
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8415.D
Acq On : 25 Feb 2024 08:44 pm
Operator : F.NAEGLER
Sample : R2401280-020
Misc : CEC 25499 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 26 09:03:26 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8415.D\data.ms

(6) Bromomethane (P)

1.546min (+ 0.001) 0.28 ug/L

response 473

Ion	Exp%	Act%
93.90	100.00	100.00
95.90	92.30	119.67#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

02/27/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8415.D
Acq On : 25 Feb 2024 08:44 pm
Operator : F.NAEGLER
Sample : R2401280-020
Misc : CEC 25499 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 26 09:03:26 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

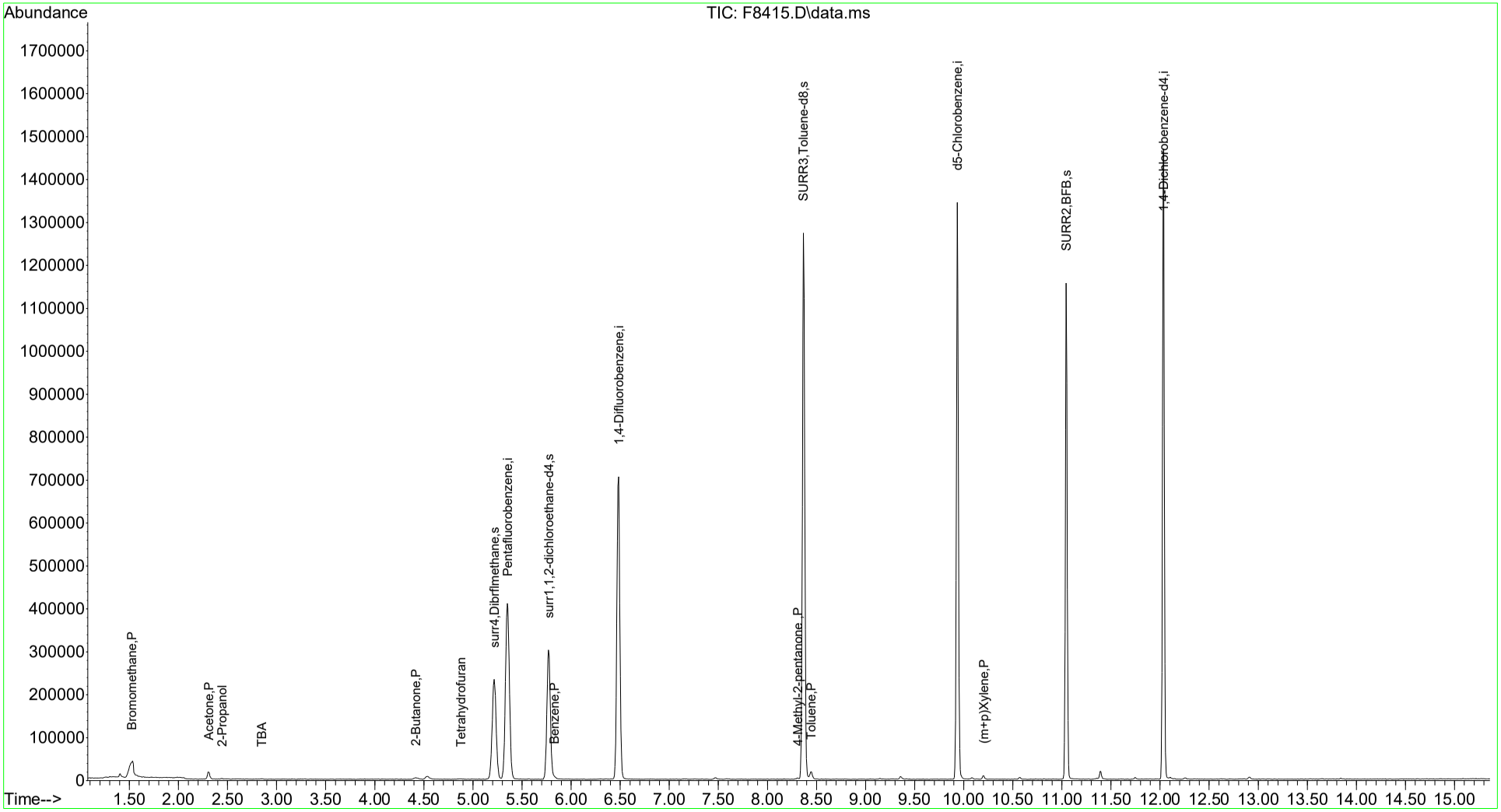
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.356	168	399360	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.484	114	627549	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.934	117	590304	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	12.038	152	296392	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.216	113	191792	47.67	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 95.34%			
48) surr1,1,2-dichloroetha...	5.770	65	262509	49.72	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 99.44%			
65) SURR3,Toluene-d8	8.368	98	779343	47.63	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 95.26%			
70) SURR2,BFB	11.044	95	279742	45.01	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 90.02%			
Target Compounds						Qvalue
4) Chloromethane	1.253	50	782	Below Cal		90
6) Bromomethane	1.527	94	1138m	0.386	ug/L	
16) Acetone	2.308	43	18866	7.964	ug/L	95
17) 2-Propanol	2.442	45	1888	4.958	ug/L	63
24) TBA	2.850	59	1142m	1.723	ug/L	
35) 2-Butanone	4.417	43	6838	2.123	ug/L	90
39) Tetrahydrofuran	4.874	42	941m	0.440	ug/L	
49) Benzene	5.831	78	3613	0.258	ug/L #	42
64) 4-Methyl-2-pentanone	8.307	43	1938	0.308	ug/L	85
66) Toluene	8.447	91	10431	0.649	ug/L	95
83) (m+p)Xylene	10.203	106	1910	0.283	ug/L #	69

(#) = qualifier out of range (m) = manual integration (+) = signals summed

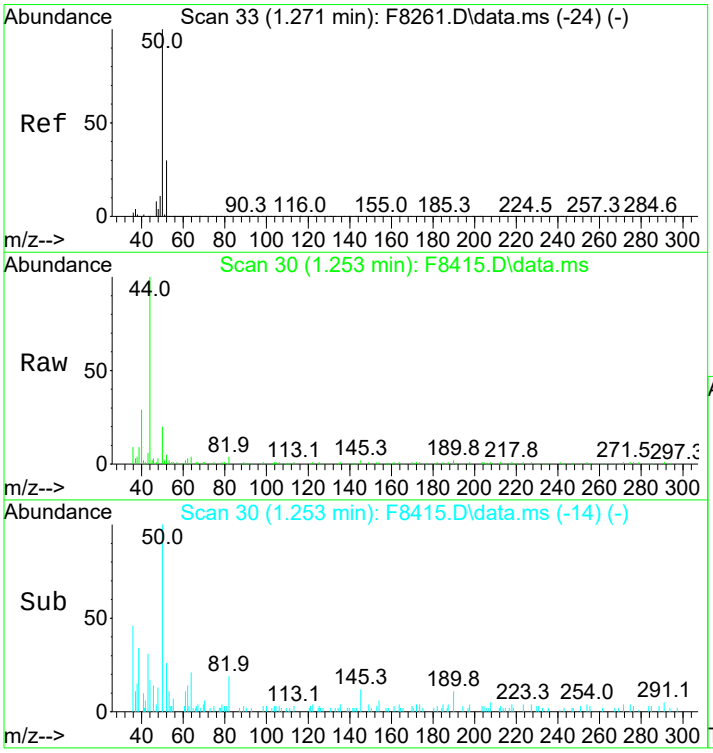
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8415.D
Acq On : 25 Feb 2024 08:44 pm
Operator : F.NAEGLER
Sample : R2401280-020
Misc : CEC 25499 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 26 09:03:26 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



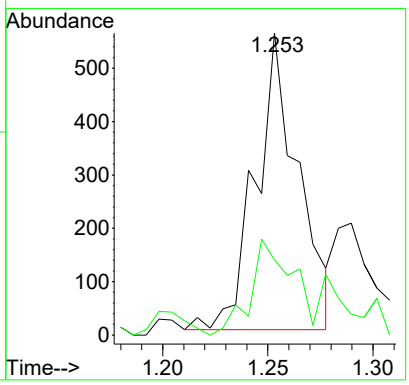
1st FJ 02/27/24
2nd AM 02/28/24

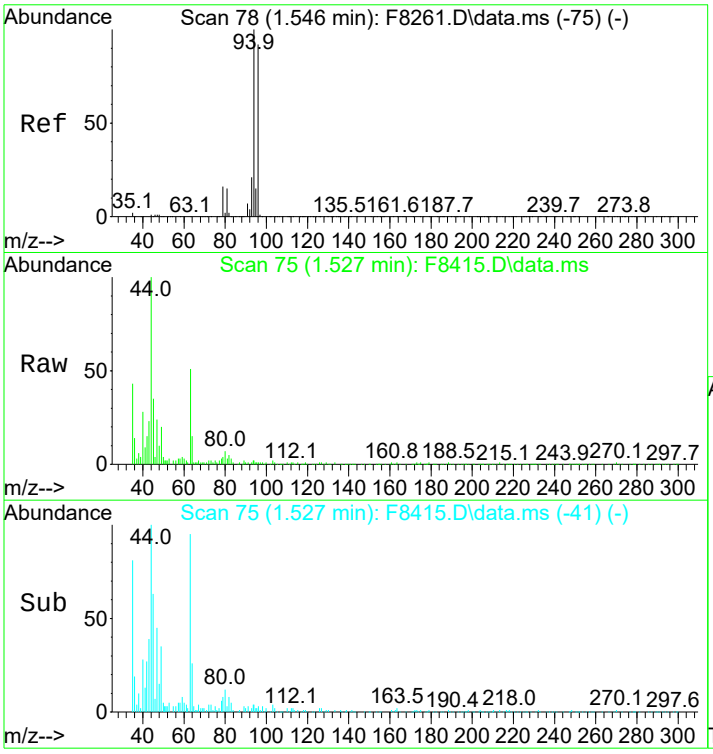


#4
Chloromethane
Concen: Below Cal
RT: 1.253 min Scan# 30
Delta R.T. -0.018 min
Lab File: F8415.D
Acq: 25 Feb 2024 08:44 pm

Tgt Ion: 50 Resp: 782

Ion	Ratio	Lower	Upper
50	100		
52	24.9	10.3	50.3

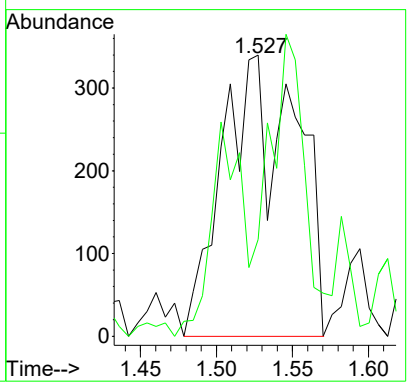


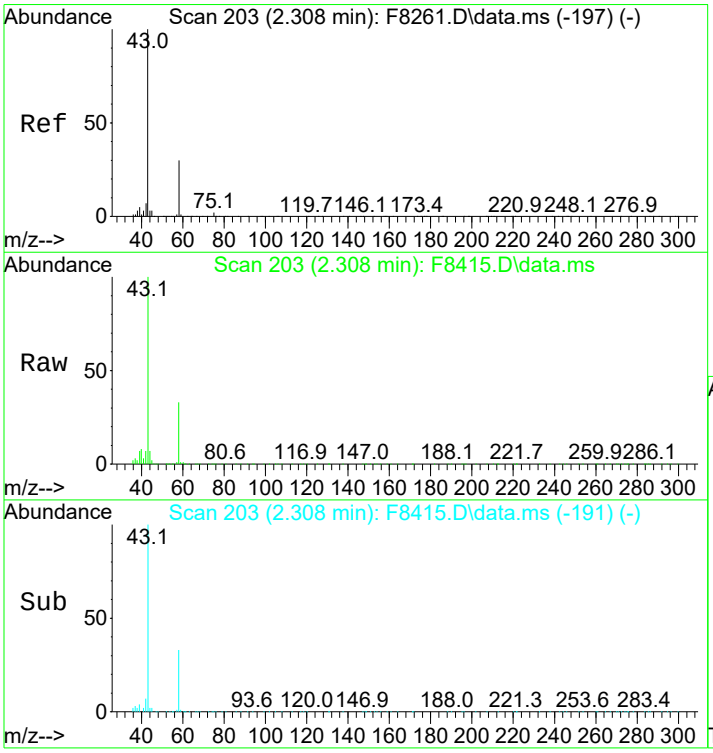


#6
Bromomethane
Concen: 0.39 ug/L m
RT: 1.527 min Scan# 75
Delta R.T. -0.018 min
Lab File: F8415.D
Acq: 25 Feb 2024 08:44 pm

Tgt Ion: 94 Resp: 1138

Ion	Ratio	Lower	Upper
94	100		
96	65.7	72.3	112.3#

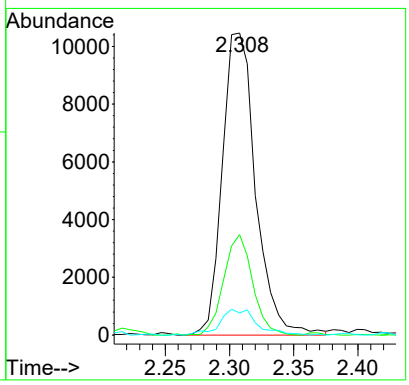


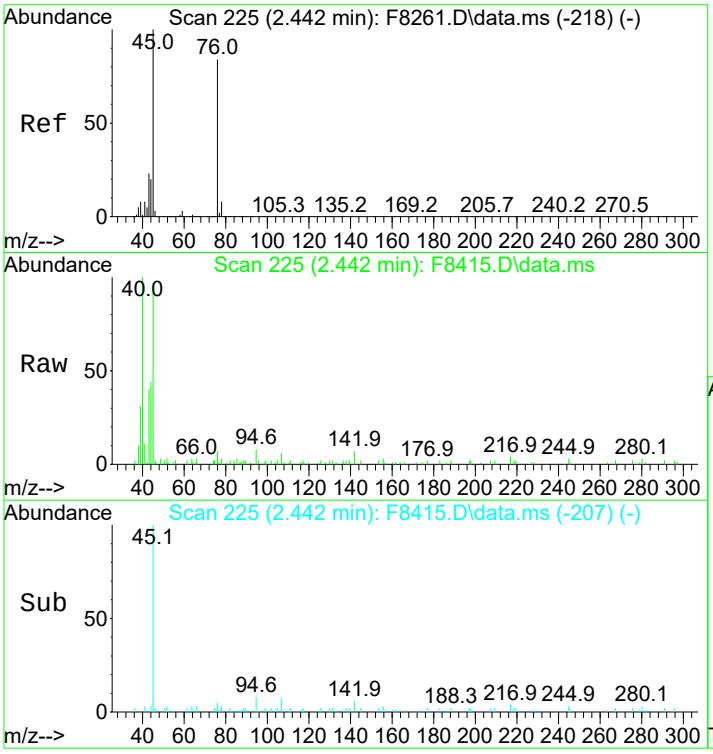


#16
Acetone
Concen: 7.96 ug/L
RT: 2.308 min Scan# 203
Delta R.T. 0.000 min
Lab File: F8415.D
Acq: 25 Feb 2024 08:44 pm

Tgt Ion: 43 Resp: 18866

Ion	Ratio	Lower	Upper
43	100		
58	33.3	10.0	50.0
42	7.3	0.0	27.2

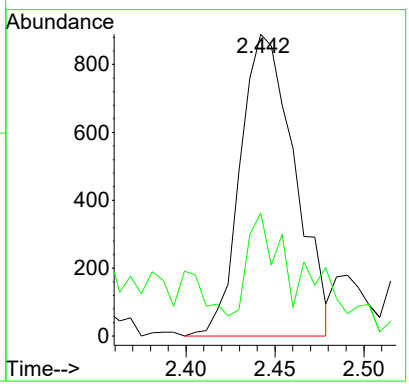


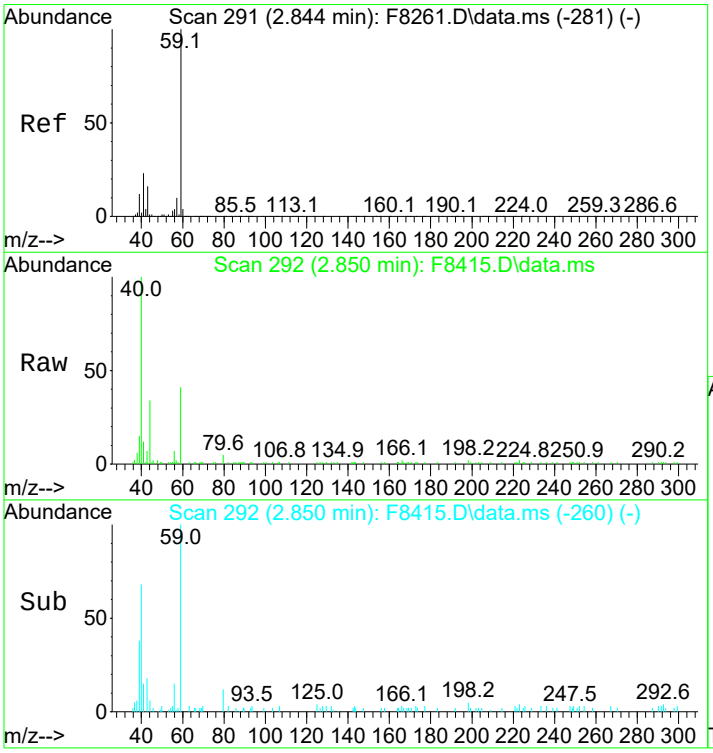


#17
2-Propanol
Concen: 4.96 ug/L
RT: 2.442 min Scan# 225
Delta R.T. 0.000 min
Lab File: F8415.D
Acq: 25 Feb 2024 08:44 pm

Tgt Ion: 45 Resp: 1888

Ion	Ratio	Lower	Upper
45	100		
43	40.8	3.0	43.0

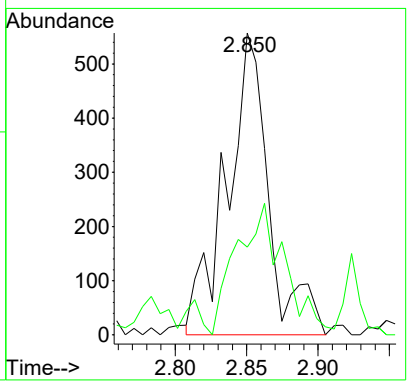


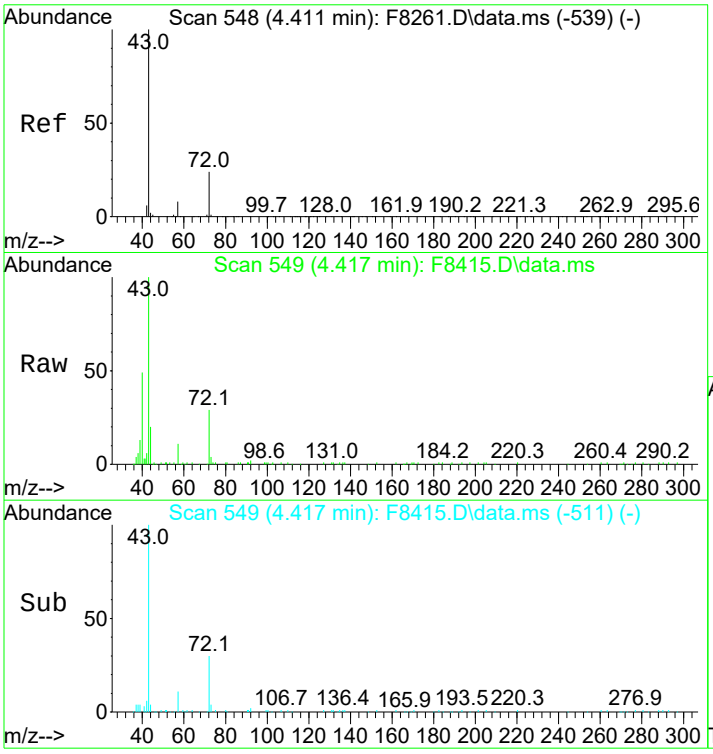


#24
TBA
Concen: 1.72 ug/L m
RT: 2.850 min Scan# 292
Delta R.T. 0.006 min
Lab File: F8415.D
Acq: 25 Feb 2024 08:44 pm

Tgt Ion: 59 Resp: 1142

Ion	Ratio	Lower	Upper
59	100		
41	29.1	3.6	43.6

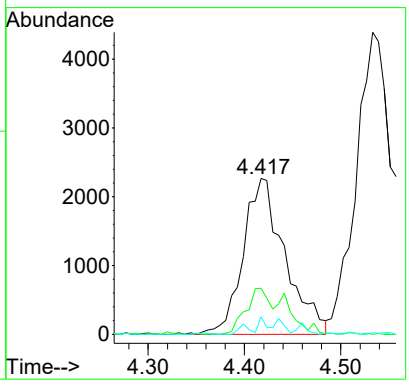


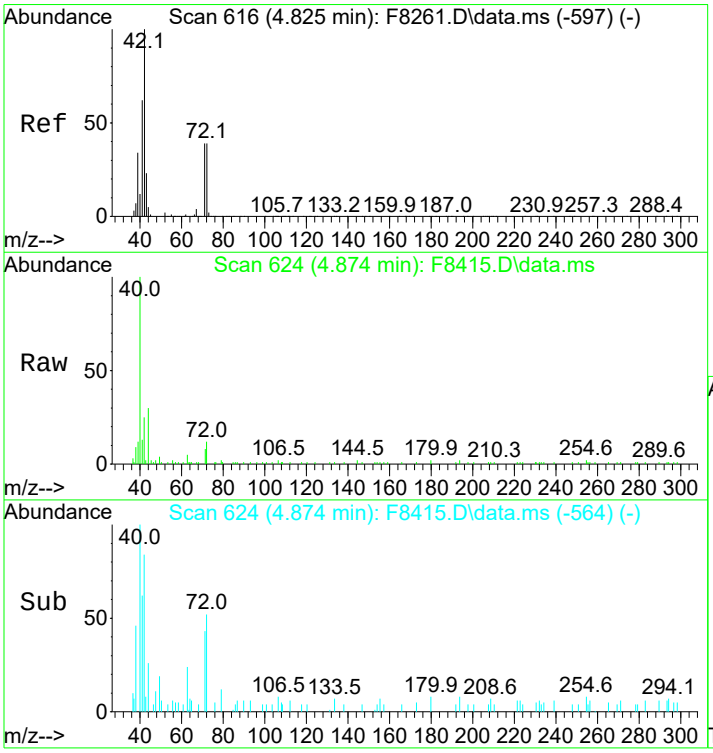


#35
2-Butanone
Concen: 2.12 ug/L
RT: 4.417 min Scan# 549
Delta R.T. 0.006 min
Lab File: F8415.D
Acq: 25 Feb 2024 08:44 pm

Tgt Ion: 43 Resp: 6838

Ion	Ratio	Lower	Upper
43	100		
72	29.5	4.5	44.5
57	11.2	0.0	27.8

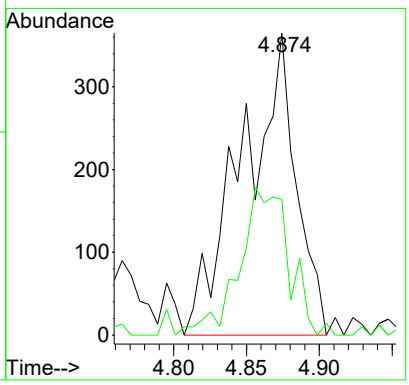


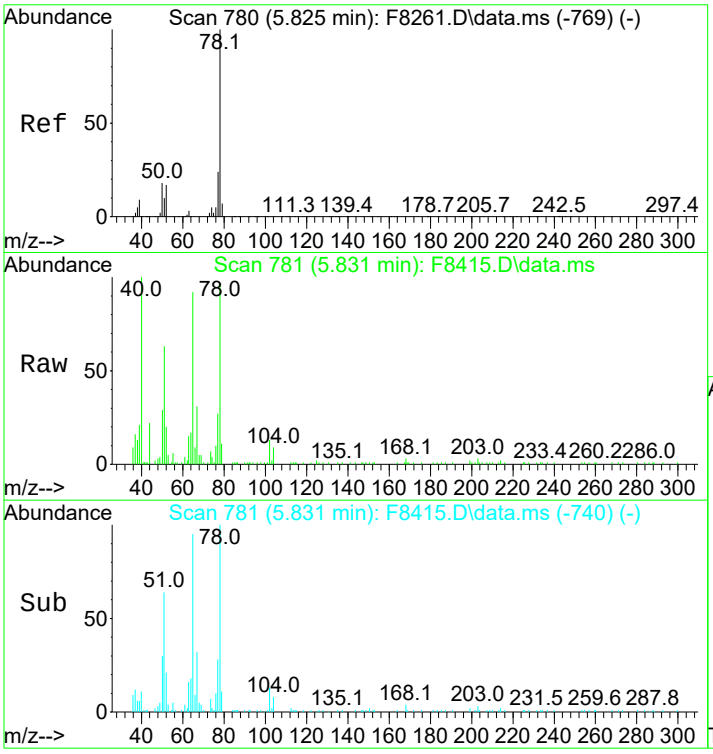


#39
Tetrahydrofuran
Concen: 0.44 ug/L m
RT: 4.874 min Scan# 624
Delta R.T. 0.049 min
Lab File: F8415.D
Acq: 25 Feb 2024 08:44 pm

Tgt Ion: 42 Resp: 941

Ion	Ratio	Lower	Upper
42	100		
72	47.7	18.9	58.9

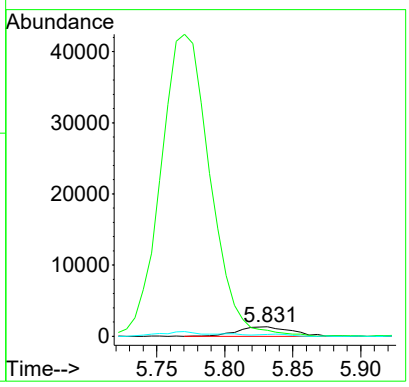


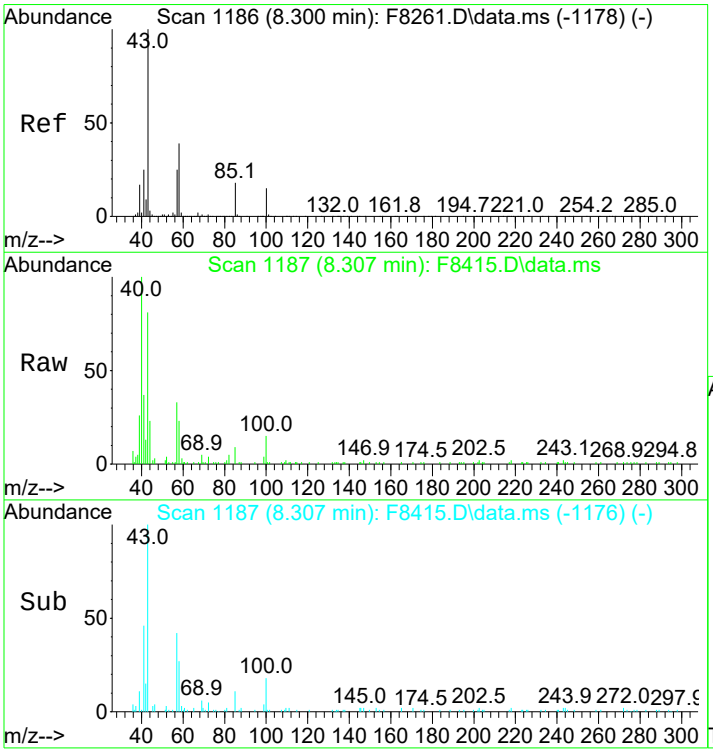


#49
Benzene
Concen: 0.26 ug/L
RT: 5.831 min Scan# 781
Delta R.T. 0.006 min
Lab File: F8415.D
Acq: 25 Feb 2024 08:44 pm

Tgt Ion: 78 Resp: 3613

Ion	Ratio	Lower	Upper
78	100		
51	64.6	0.0	38.9#
52	20.9	0.0	36.8

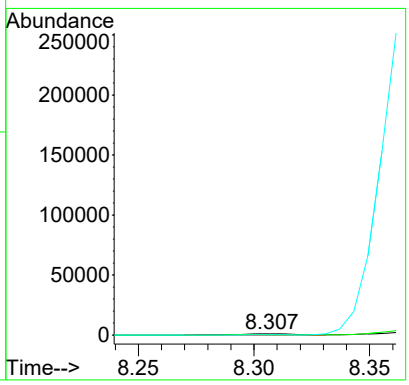


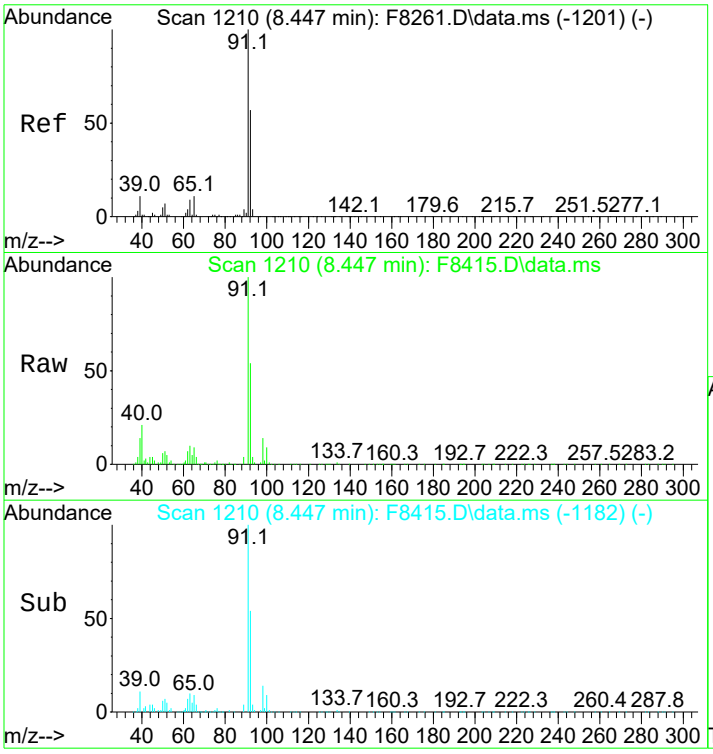


#64
4-Methyl-2-pentanone
Concen: 0.31 ug/L
RT: 8.307 min Scan# 1187
Delta R.T. 0.006 min
Lab File: F8415.D
Acq: 25 Feb 2024 08:44 pm

Tgt Ion: 43 Resp: 1938

Ion	Ratio	Lower	Upper
43	100		
58	28.0	18.7	58.7
100	19.4	0.0	35.4

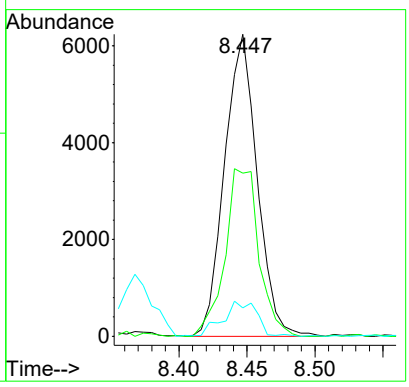


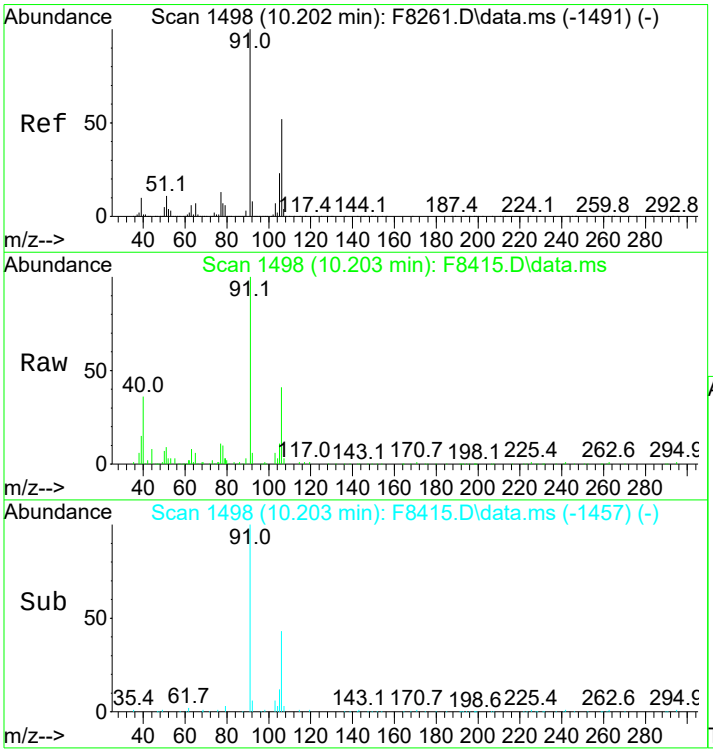


#66
Toluene
Concen: 0.65 ug/L
RT: 8.447 min Scan# 1210
Delta R.T. 0.000 min
Lab File: F8415.D
Acq: 25 Feb 2024 08:44 pm

Tgt Ion: 91 Resp: 10431

Ion	Ratio	Lower	Upper
91	100		
92	54.0	37.4	77.4
65	9.4	0.0	31.5

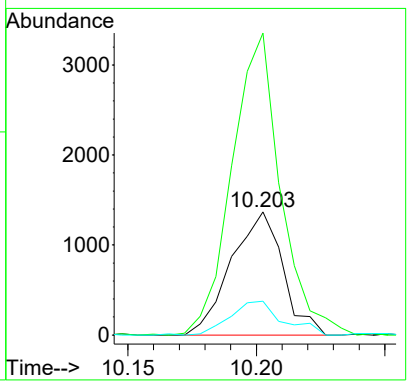




#83
(m+p)Xylene
Concen: 0.28 ug/L
RT: 10.203 min Scan# 1498
Delta R.T. 0.000 min
Lab File: F8415.D
Acq: 25 Feb 2024 08:44 pm

Tgt Ion:106 Resp: 1910

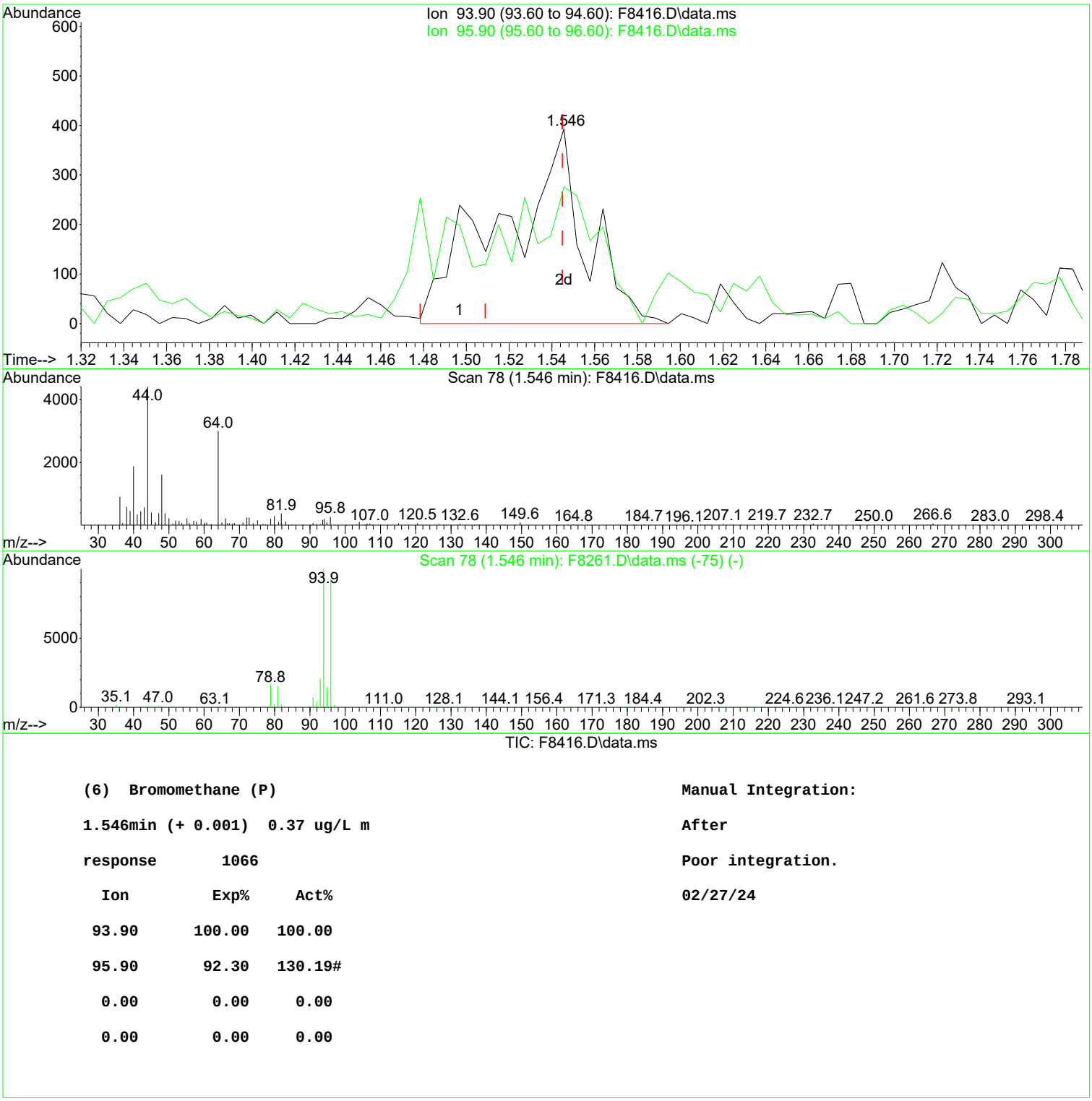
Ion	Ratio	Lower	Upper
106	100		
91	245.6	173.9	213.9#
77	27.5	6.1	46.1



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8416.D
Acq On : 25 Feb 2024 09:06 pm
Operator : F.NAEGLER
Sample : R2401280-022
Misc : CEC 25499 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 26 09:03:40 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



TIC: F8416.D\data.ms

(6) Bromomethane (P)

1.546min (+ 0.001) 0.37 ug/L m

response 1066

Ion	Exp%	Act%
93.90	100.00	100.00
95.90	92.30	130.19#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

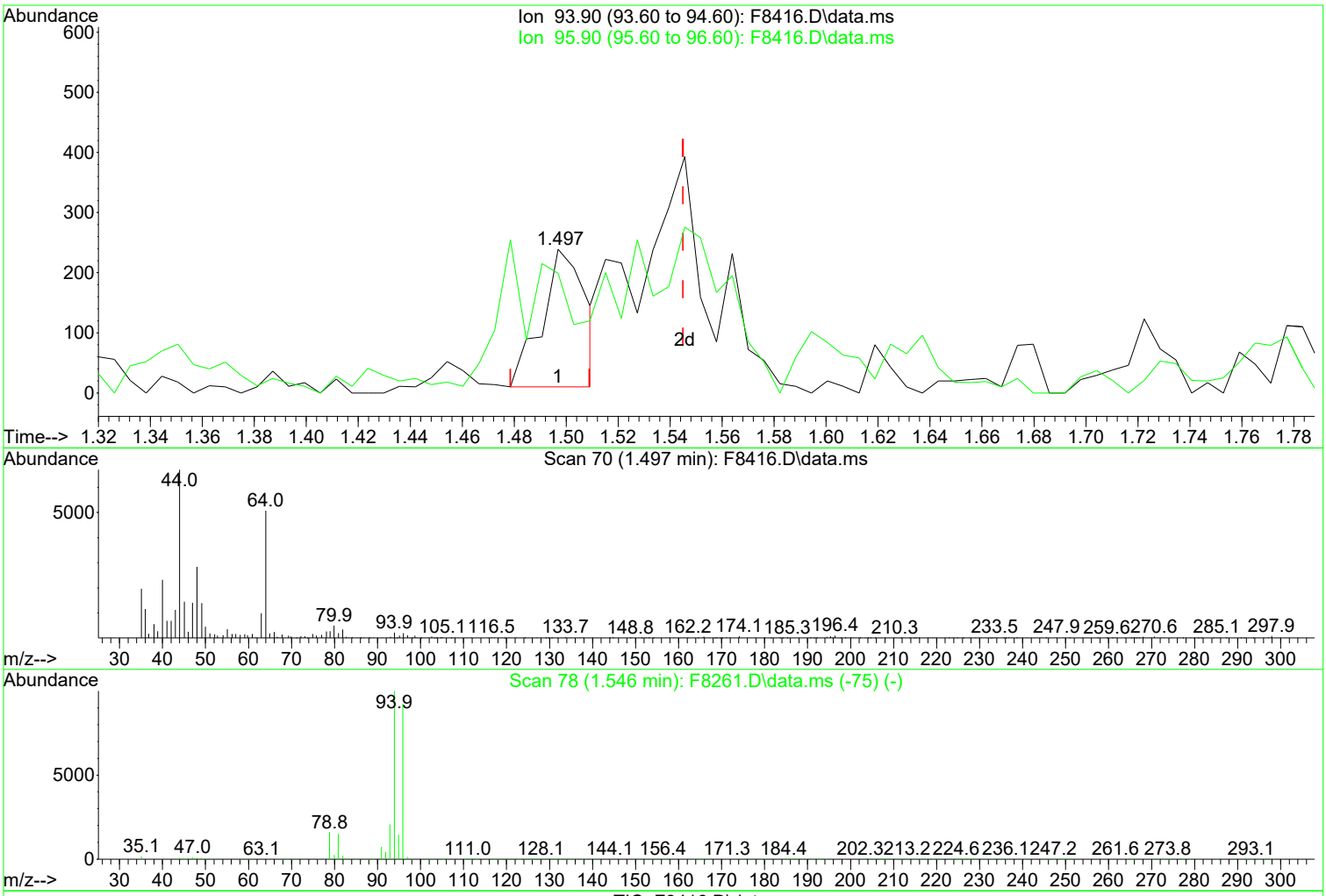
Poor integration.

02/27/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8416.D
Acq On : 25 Feb 2024 09:06 pm
Operator : F.NAEGLER
Sample : R2401280-022
Misc : CEC 25499 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 26 09:03:40 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



TIC: F8416.D\data.ms

(6) Bromomethane (P)

1.497min (-0.048) 0.25 ug/L

response 265

Ion	Exp%	Act%
93.90	100.00	100.00
95.90	92.30	83.26
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

02/27/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8416.D
Acq On : 25 Feb 2024 09:06 pm
Operator : F.NAEGLER
Sample : R2401280-022
Misc : CEC 25499 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 26 09:03:40 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

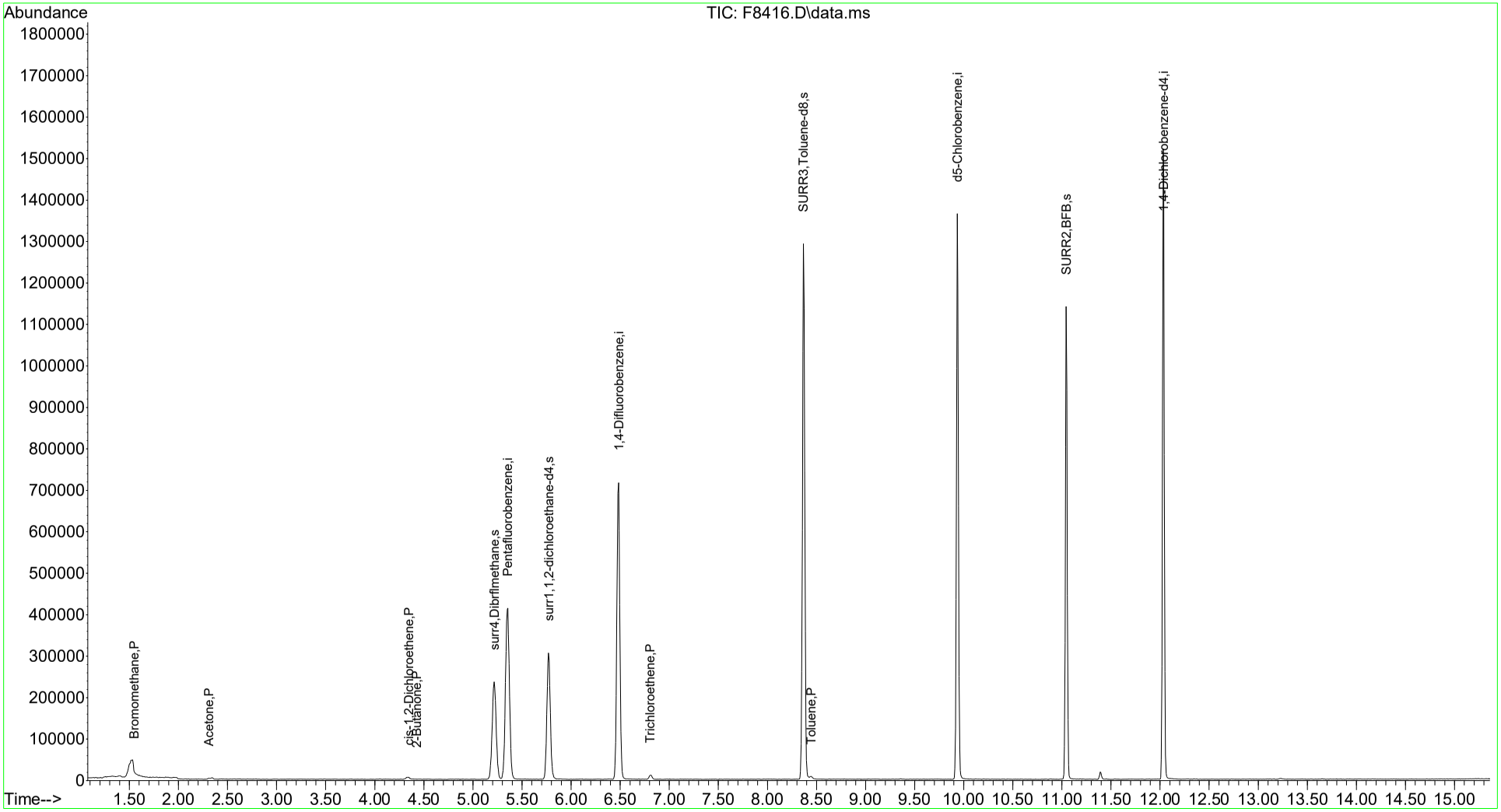
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.356	168	400922	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.484	114	638775	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.934	117	596485	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	12.037	152	298658	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.216	113	196954	48.09	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 96.18%			
48) surr1,1,2-dichloroetha...	5.770	65	265384	49.38	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 98.76%			
65) SURR3,Toluene-d8	8.367	98	781520	46.92	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 93.84%			
70) SURR2,BFB	11.044	95	277566	43.87	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 87.74%			
Target Compounds						Qvalue
4) Chloromethane	1.253	50	759	Below Cal		93
6) Bromomethane	1.546	94	1066m	0.374	ug/L	
16) Acetone	2.308	43	2753	1.158	ug/L	92
34) cis-1,2-Dichloroethene	4.344	96	3208	0.786	ug/L #	71
35) 2-Butanone	4.429	43	704	0.218	ug/L #	67
54) Trichloroethene	6.807	130	3626	0.947	ug/L	95
66) Toluene	8.447	91	3537	0.216	ug/L	80

(#) = qualifier out of range (m) = manual integration (+) = signals summed

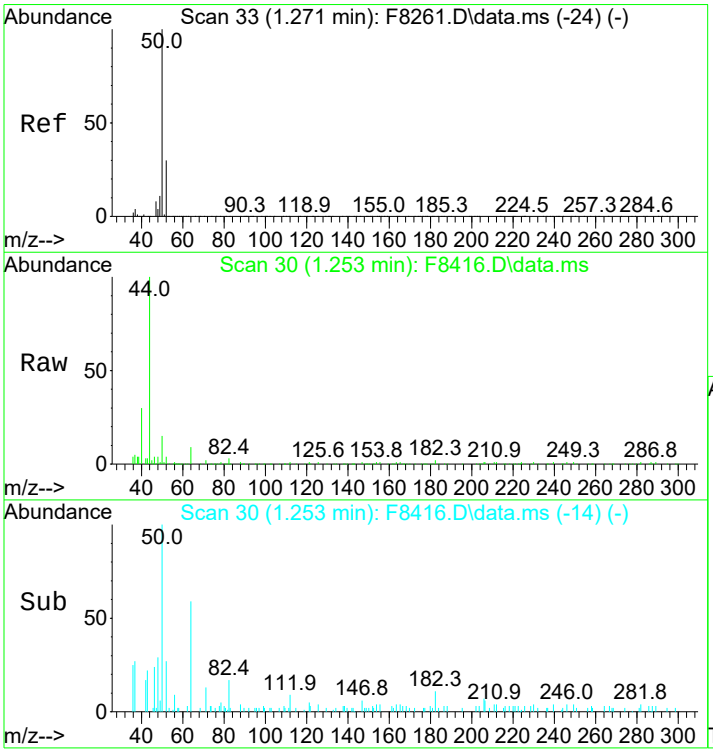
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8416.D
Acq On : 25 Feb 2024 09:06 pm
Operator : F.NAEGLER
Sample : R2401280-022
Misc : CEC 25499 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 26 09:03:40 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



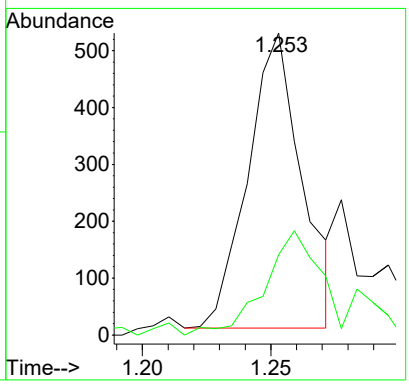
1st FJ 02/27/24
2nd AM 02/28/24

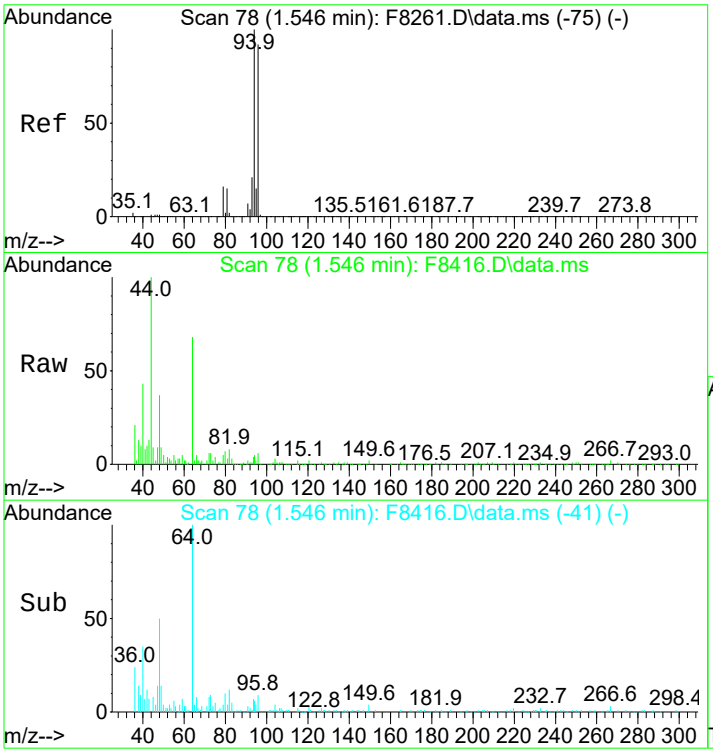


#4
Chloromethane
Concen: Below Cal
RT: 1.253 min Scan# 30
Delta R.T. -0.018 min
Lab File: F8416.D
Acq: 25 Feb 2024 09:06 pm

Tgt Ion: 50 Resp: 759

Ion	Ratio	Lower	Upper
50	100		
52	26.6	10.3	50.3

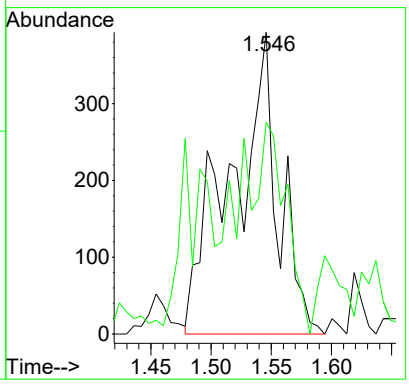


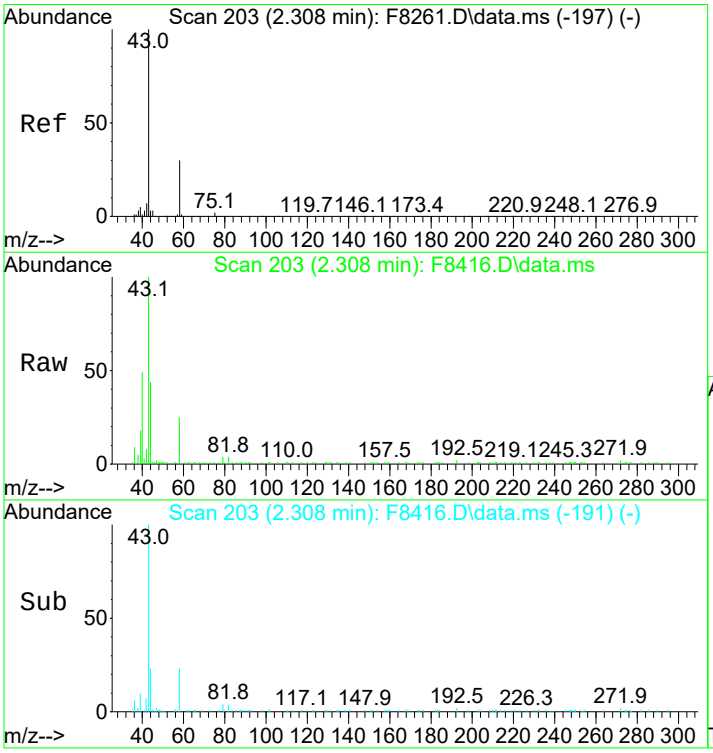


#6
Bromomethane
Concen: 0.37 ug/L m
RT: 1.546 min Scan# 78
Delta R.T. 0.001 min
Lab File: F8416.D
Acq: 25 Feb 2024 09:06 pm

Tgt Ion: 94 Resp: 1066

Ion	Ratio	Lower	Upper
94	100		
96	130.2	72.3	112.3#

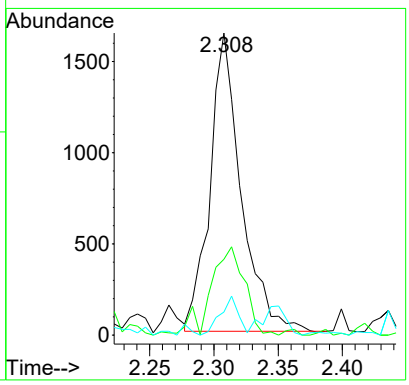


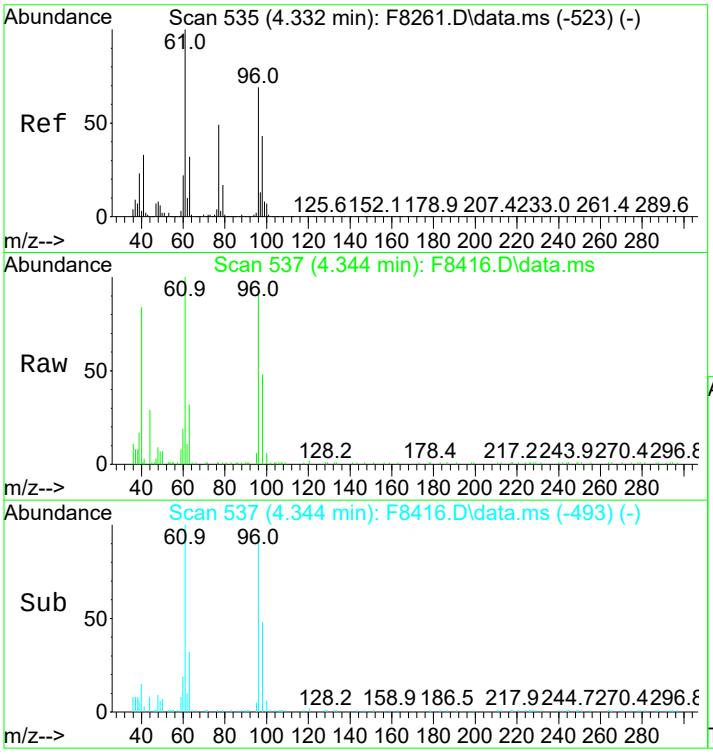


#16
Acetone
Concen: 1.16 ug/L
RT: 2.308 min Scan# 203
Delta R.T. 0.000 min
Lab File: F8416.D
Acq: 25 Feb 2024 09:06 pm

Tgt Ion: 43 Resp: 2753

Ion	Ratio	Lower	Upper
43	100		
58	25.1	10.0	50.0
42	7.5	0.0	27.2

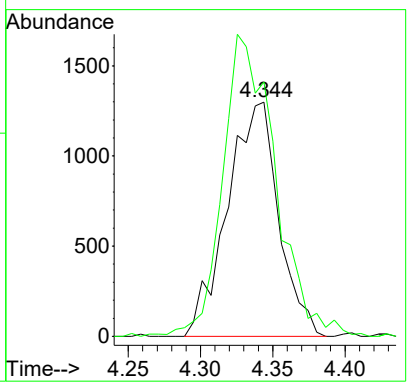


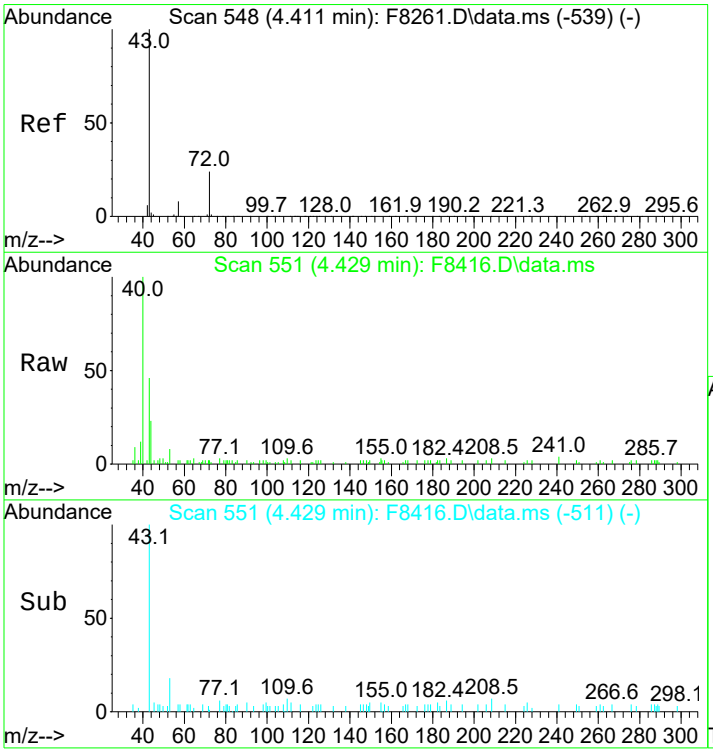


#34
cis-1,2-Dichloroethene
Concen: 0.79 ug/L
RT: 4.344 min Scan# 537
Delta R.T. 0.012 min
Lab File: F8416.D
Acq: 25 Feb 2024 09:06 pm

Tgt Ion: 96 Resp: 3208

Ion	Ratio	Lower	Upper
96	100		
61	108.5	124.5	164.5#

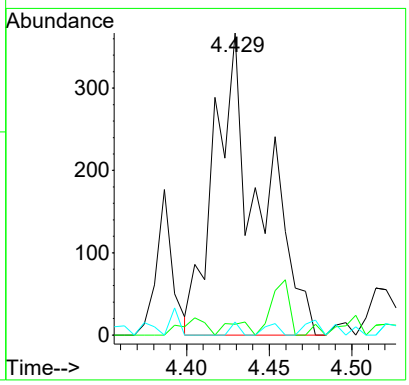


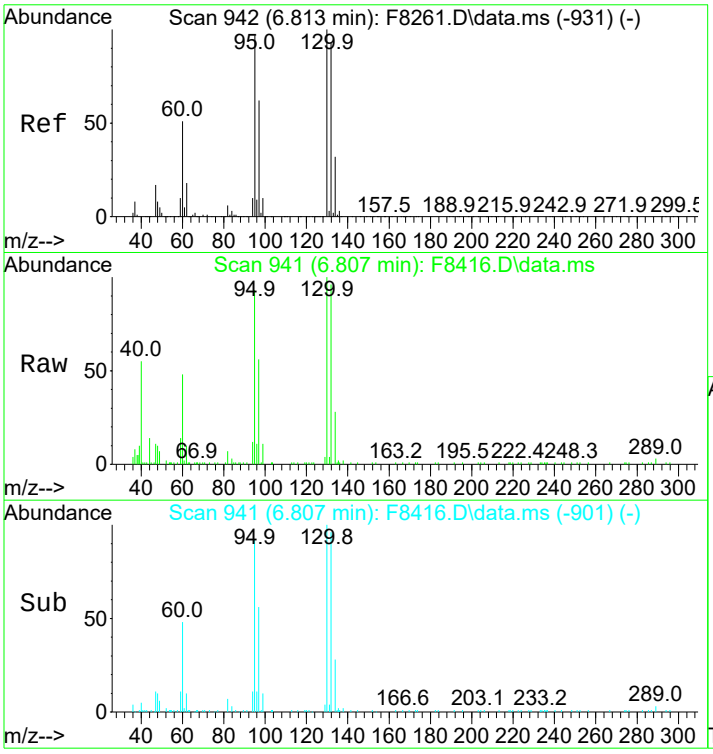


#35
2-Butanone
Concen: 0.22 ug/L
RT: 4.429 min Scan# 551
Delta R.T. 0.018 min
Lab File: F8416.D
Acq: 25 Feb 2024 09:06 pm

Tgt Ion: 43 Resp: 704

Ion	Ratio	Lower	Upper
43	100		
72	4.2	4.5	44.5#
57	5.3	0.0	27.8

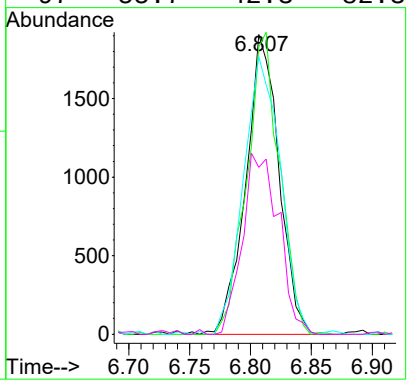


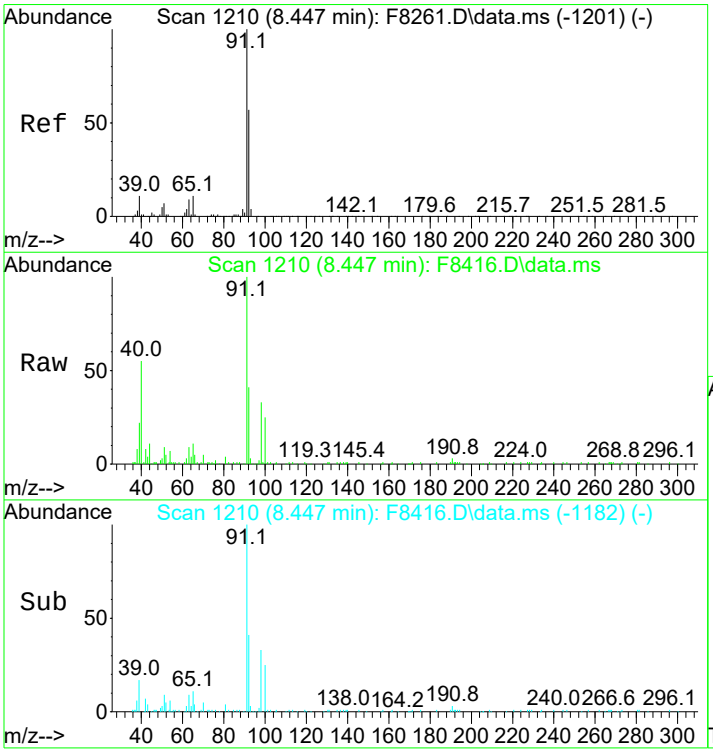


#54
Trichloroethene
Concen: 0.95 ug/L
RT: 6.807 min Scan# 941
Delta R.T. -0.006 min
Lab File: F8416.D
Acq: 25 Feb 2024 09:06 pm

Tgt Ion:130 Resp: 3626

Ion	Ratio	Lower	Upper
130	100		
132	95.9	73.2	113.2
95	92.6	77.2	117.2
97	55.7	42.3	82.3

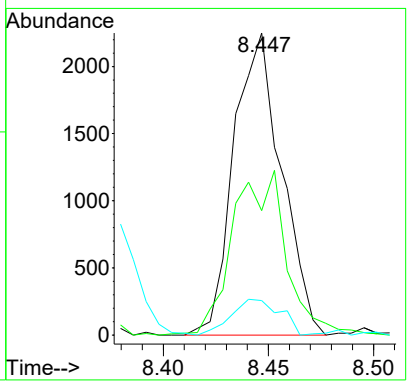




#66
Toluene
Concen: 0.22 ug/L
RT: 8.447 min Scan# 1210
Delta R.T. 0.000 min
Lab File: F8416.D
Acq: 25 Feb 2024 09:06 pm

Tgt Ion: 91 Resp: 3537

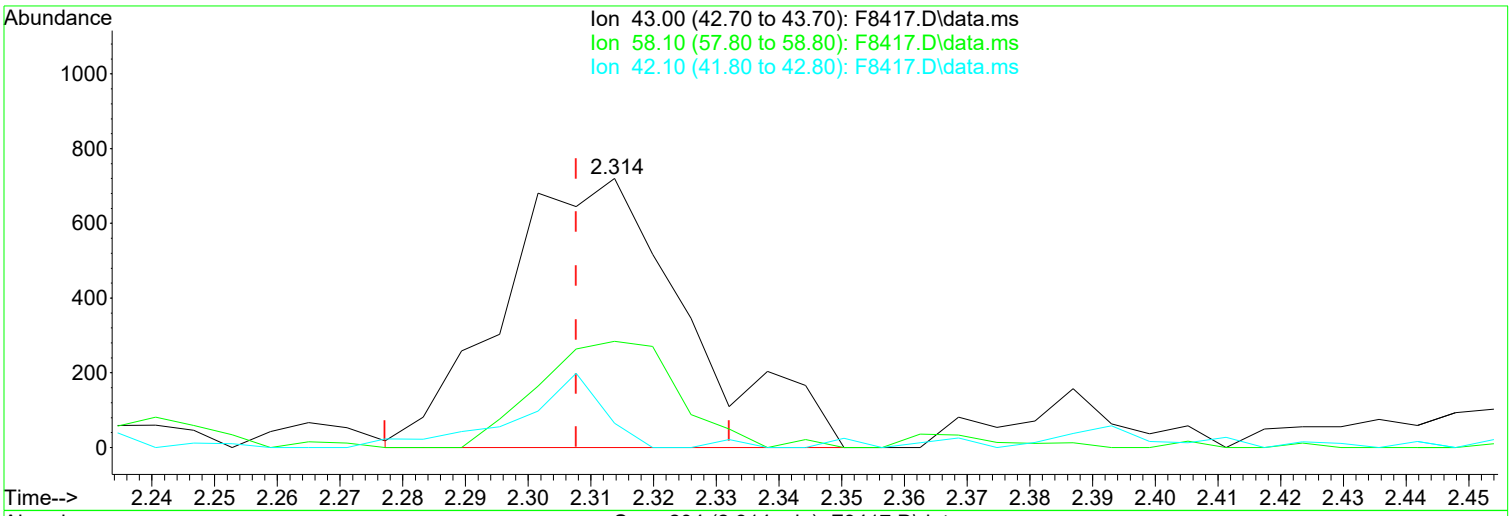
Ion	Ratio	Lower	Upper
91	100		
92	41.2	37.4	77.4
65	16.5	0.0	31.5

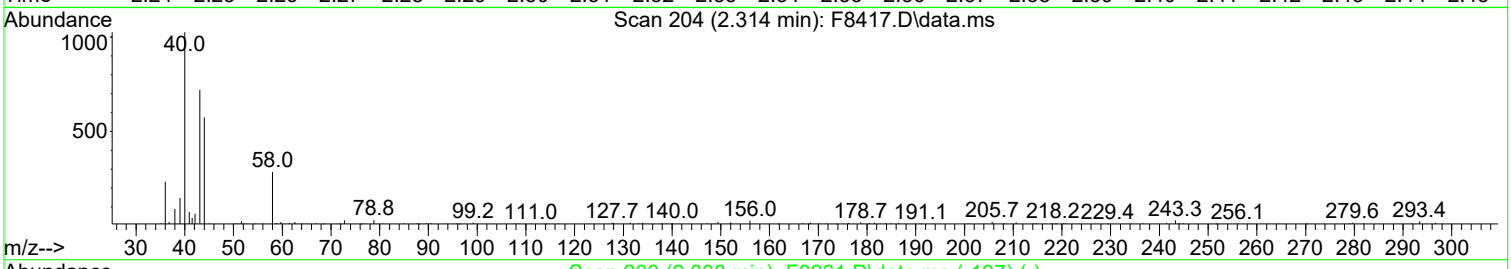


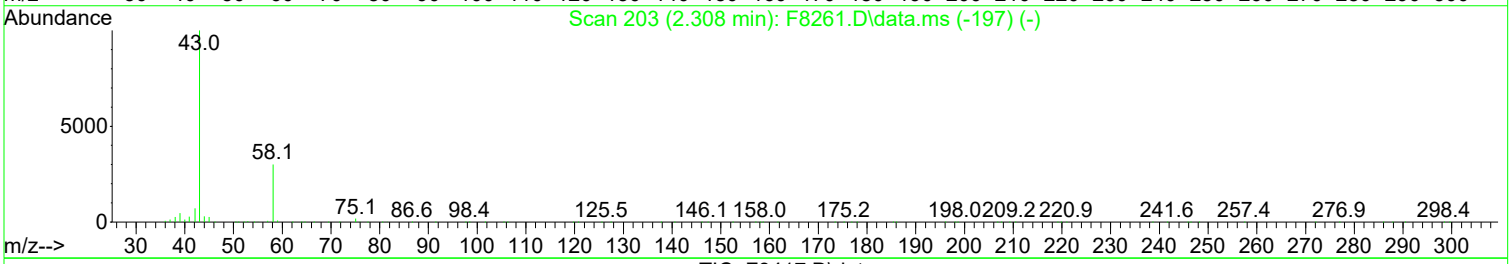
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8417.D
Acq On : 25 Feb 2024 09:28 pm
Operator : F.NAEGLER
Sample : R2401280-023
Misc : CEC 25499 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 26 09:03:58 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8417.D\data.ms

(16) Acetone (P)

2.314min (+ 0.006) 0.63 ug/L m

response 1475

Ion	Exp%	Act%
43.00	100.00	100.00
58.10	30.00	39.44
42.10	7.20	9.03
0.00	0.00	0.00

Manual Integration:

After

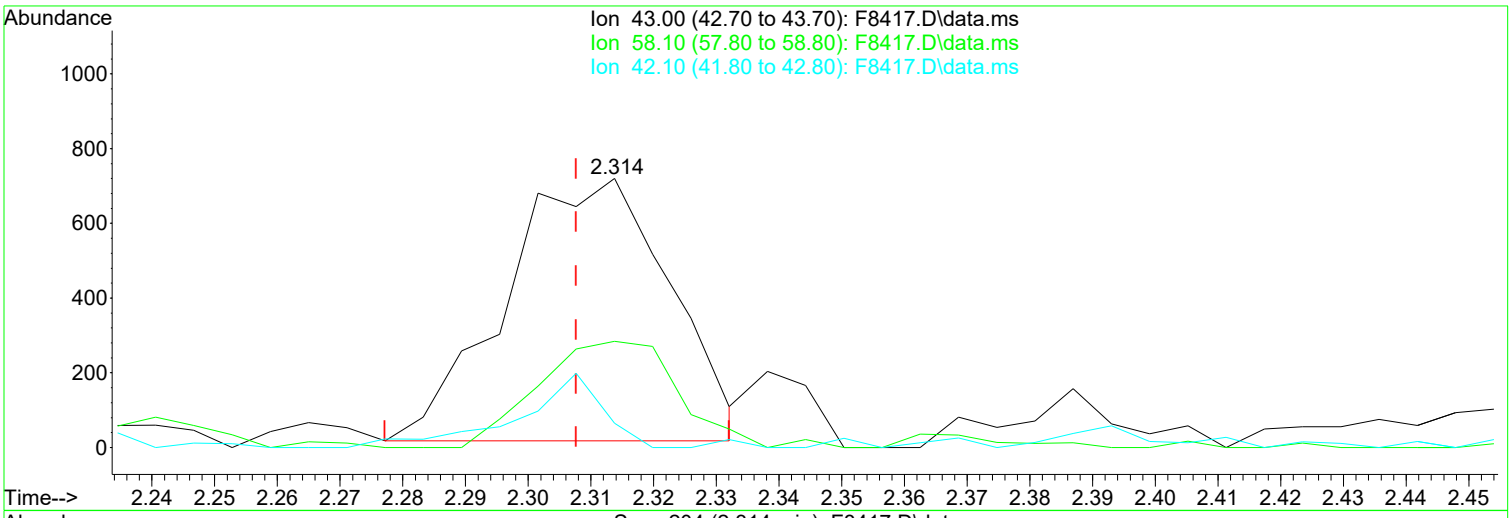
Poor integration.

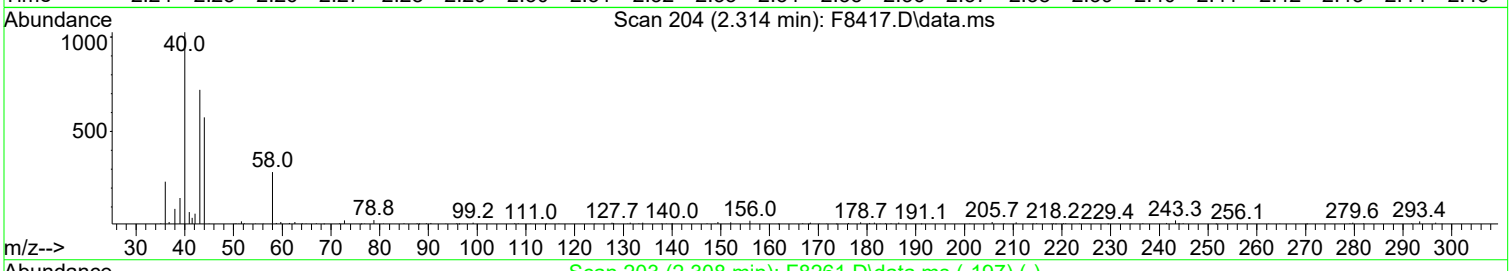
02/27/24

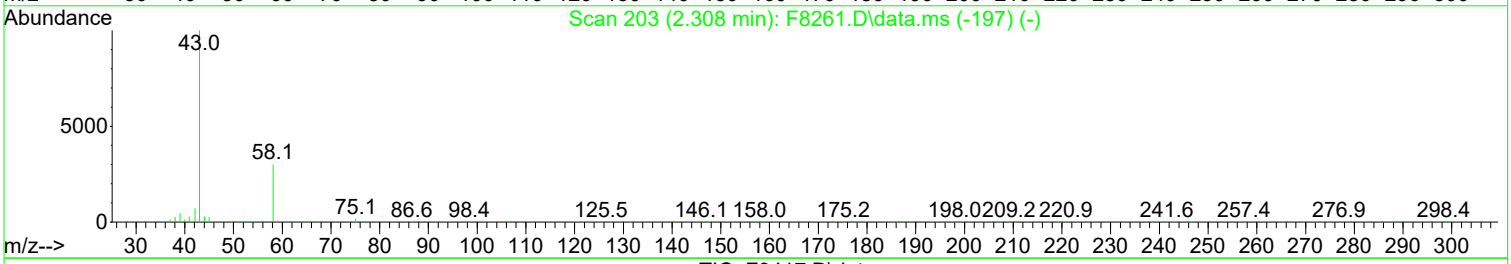
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8417.D
Acq On : 25 Feb 2024 09:28 pm
Operator : F.NAEGLER
Sample : R2401280-023
Misc : CEC 25499 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 26 09:03:58 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8417.D\data.ms

(16) Acetone (P)

2.314min (+ 0.006) 0.55 ug/L

response 1280

Ion	Exp%	Act%
43.00	100.00	100.00
58.10	30.00	41.53
42.10	7.20	9.03
0.00	0.00	0.00

Manual Integration:

Before

02/27/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8417.D
Acq On : 25 Feb 2024 09:28 pm
Operator : F.NAEGLER
Sample : R2401280-023
Misc : CEC 25499 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 26 09:03:58 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

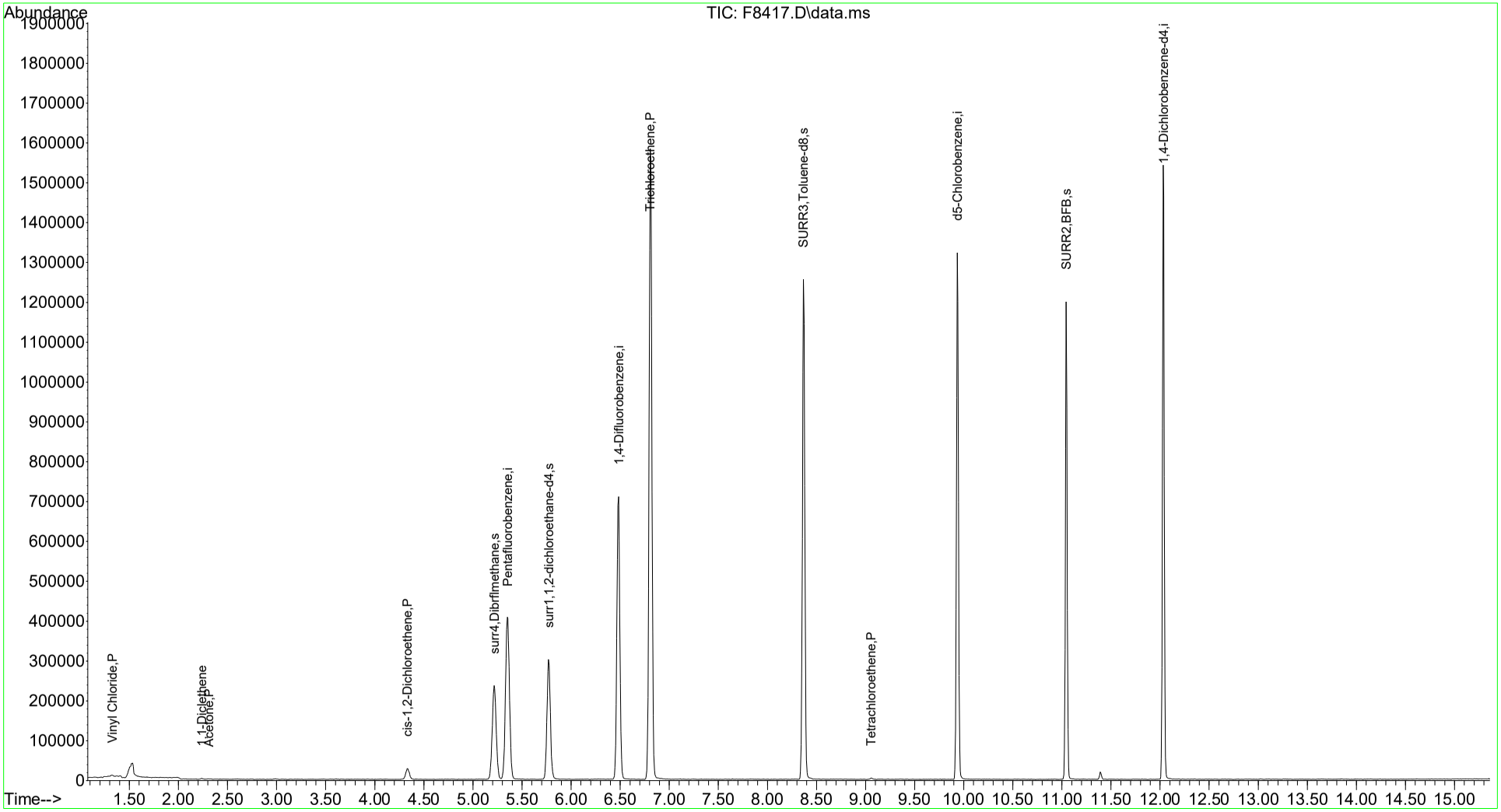
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.356	168	395035	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.484	114	628625	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.934	117	594205	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	12.037	152	298019	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.216	113	193062	47.90	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 95.80%			
48) surr1,1,2-dichloroetha...	5.770	65	261106	49.37	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 98.74%			
65) SURR3,Toluene-d8	8.367	98	777668	47.45	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 94.90%			
70) SURR2,BFB	11.044	95	274932	44.16	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 88.32%			
Target Compounds						Qvalue
4) Chloromethane	1.247	50	408	Below Cal		99
5) Vinyl Chloride	1.326	62	1272	0.265	ug/L #	45
14) 1,1-Diclethene	2.241	96	632	0.224	ug/L #	64
16) Acetone	2.314	43	1475m	0.629	ug/L	
34) cis-1,2-Dichloroethene	4.332	96	15252	3.791	ug/L	92
54) Trichloroethene	6.807	130	553048	146.799	ug/L	99
72) Tetrachloroethene	9.056	164	749	0.265	ug/L #	81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

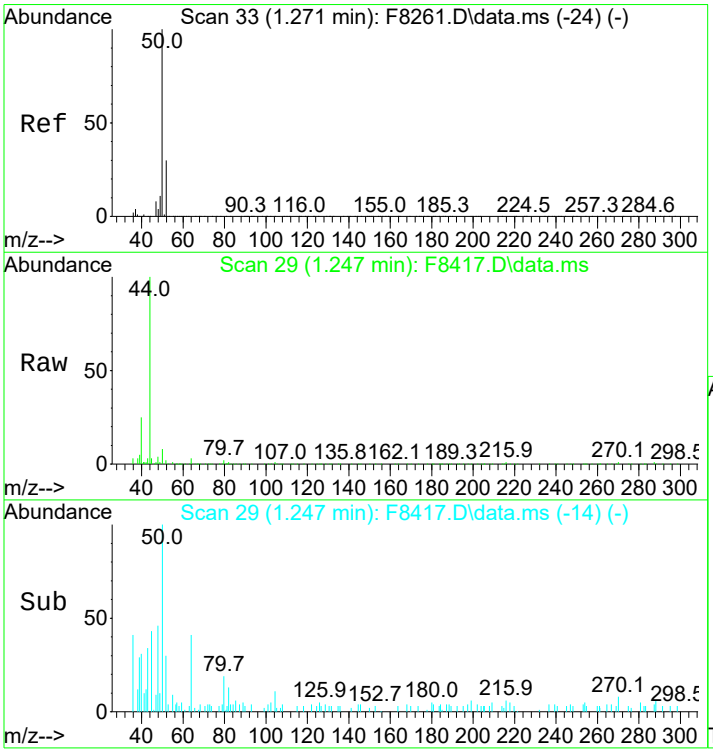
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8417.D
Acq On : 25 Feb 2024 09:28 pm
Operator : F.NAEGLER
Sample : R2401280-023
Misc : CEC 25499 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 26 09:03:58 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



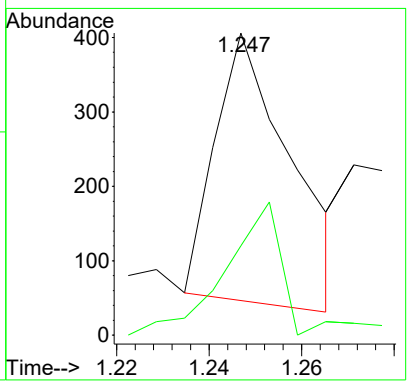
1st FJ 02/27/24
2nd AM 02/28/24

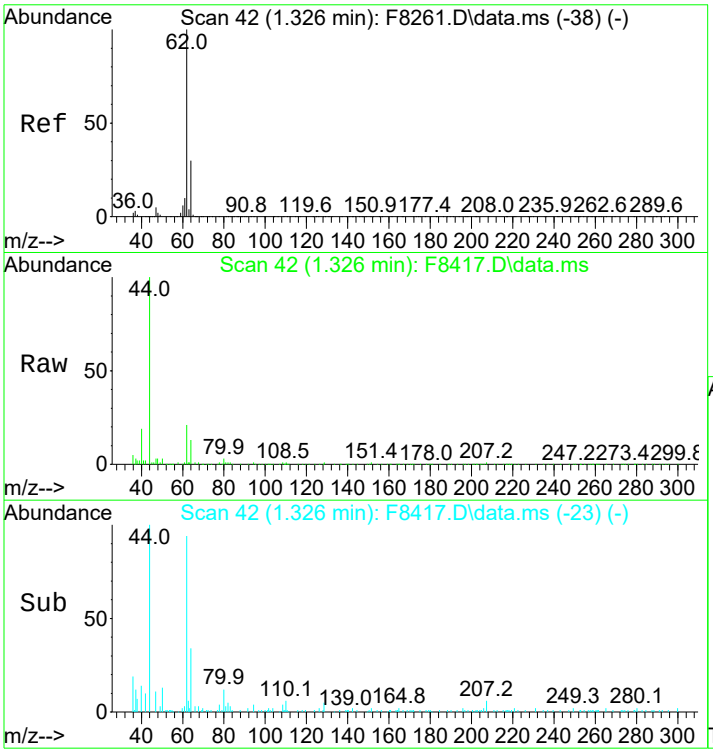


#4
Chloromethane
Concen: Below Cal
RT: 1.247 min Scan# 29
Delta R.T. -0.024 min
Lab File: F8417.D
Acq: 25 Feb 2024 09:28 pm

Tgt Ion: 50 Resp: 408

Ion	Ratio	Lower	Upper
50	100		
52	29.6	10.3	50.3

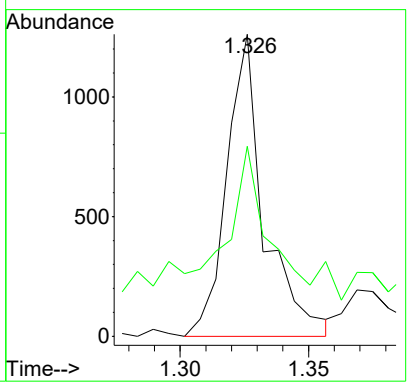


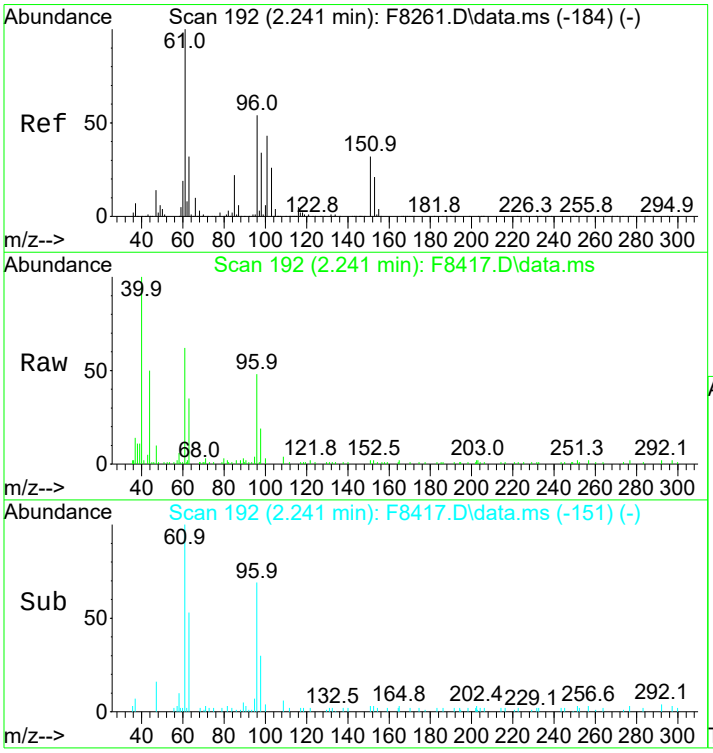


#5
Vinyl Chloride
Concen: 0.27 ug/L
RT: 1.326 min Scan# 42
Delta R.T. 0.000 min
Lab File: F8417.D
Acq: 25 Feb 2024 09:28 pm

Tgt Ion: 62 Resp: 1272

Ion	Ratio	Lower	Upper
62	100		
64	59.3	9.6	49.6#

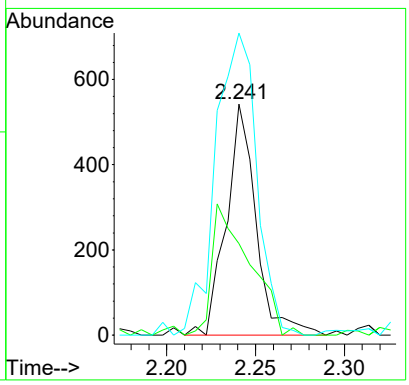


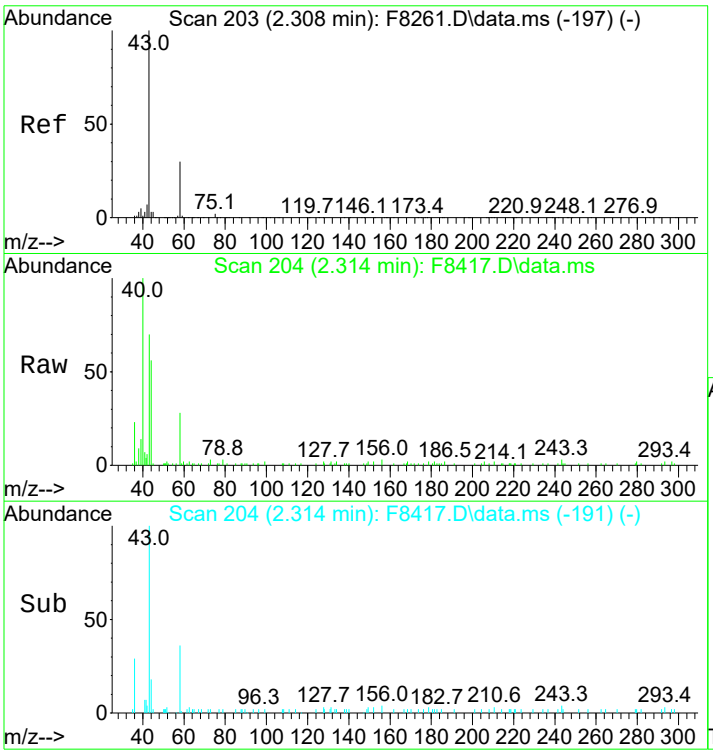


#14
1,1-Diclethene
Concen: 0.22 ug/L
RT: 2.241 min Scan# 192
Delta R.T. 0.000 min
Lab File: F8417.D
Acq: 25 Feb 2024 09:28 pm

Tgt Ion: 96 Resp: 632

Ion	Ratio	Lower	Upper
96	100		
98	39.7	43.9	83.9#
61	130.8	165.5	205.5#

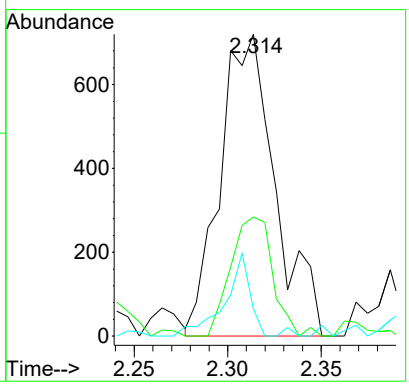


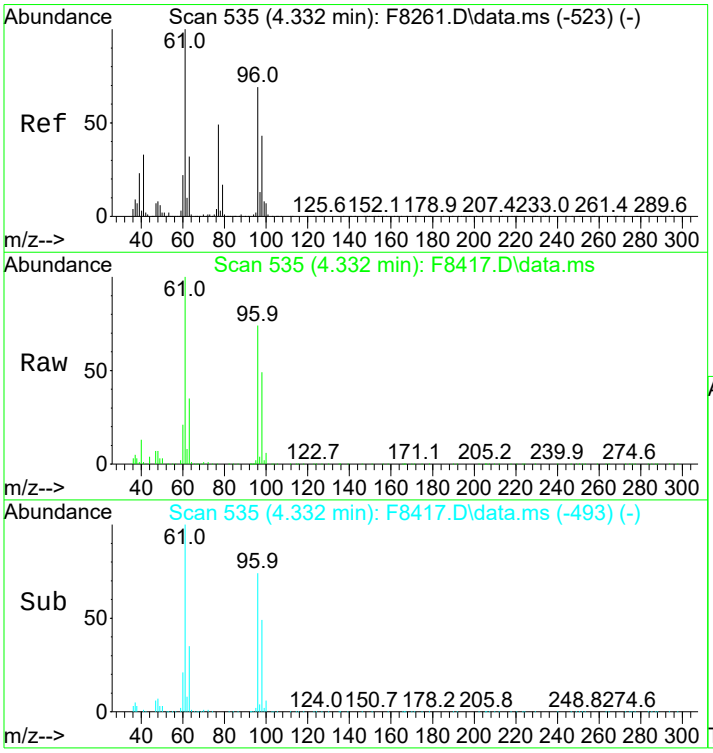


#16
Acetone
Concen: 0.63 ug/L m
RT: 2.314 min Scan# 204
Delta R.T. 0.006 min
Lab File: F8417.D
Acq: 25 Feb 2024 09:28 pm

Tgt Ion: 43 Resp: 1475

Ion	Ratio	Lower	Upper
43	100		
58	39.4	10.0	50.0
42	9.0	0.0	27.2

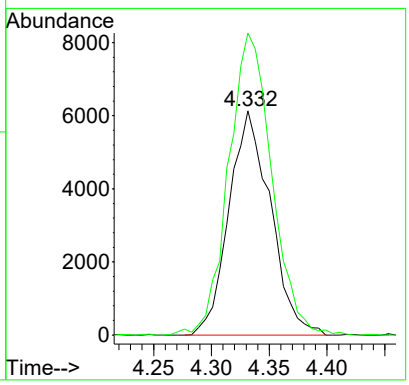


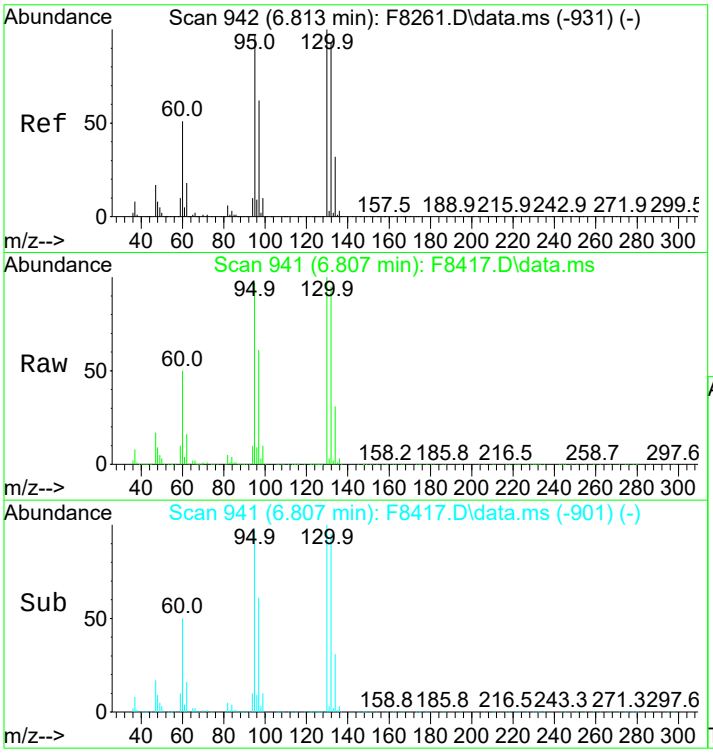


#34
cis-1,2-Dichloroethene
Concen: 3.79 ug/L
RT: 4.332 min Scan# 535
Delta R.T. 0.000 min
Lab File: F8417.D
Acq: 25 Feb 2024 09:28 pm

Tgt Ion: 96 Resp: 15252

Ion	Ratio	Lower	Upper
96	100		
61	134.7	124.5	164.5

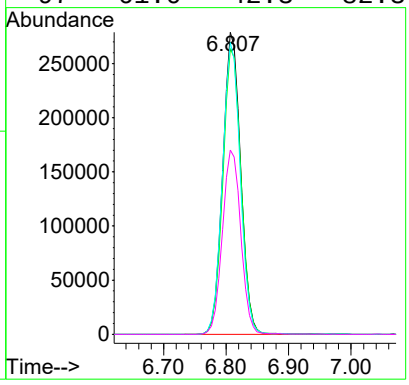


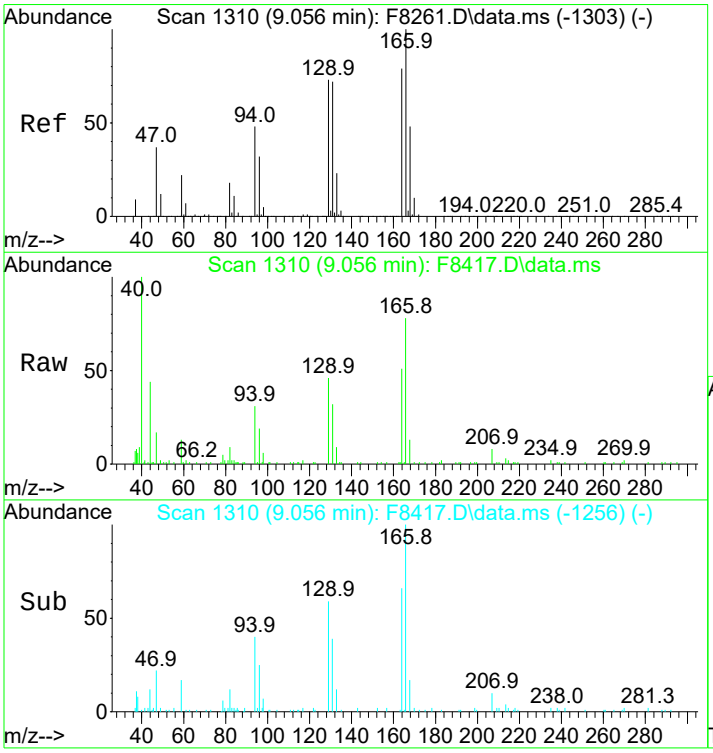


#54
Trichloroethene
Concen: 146.80 ug/L
RT: 6.807 min Scan# 941
Delta R.T. -0.006 min
Lab File: F8417.D
Acq: 25 Feb 2024 09:28 pm

Tgt Ion:130 Resp: 553048

Ion	Ratio	Lower	Upper
130	100		
132	94.6	73.2	113.2
95	96.6	77.2	117.2
97	61.0	42.3	82.3

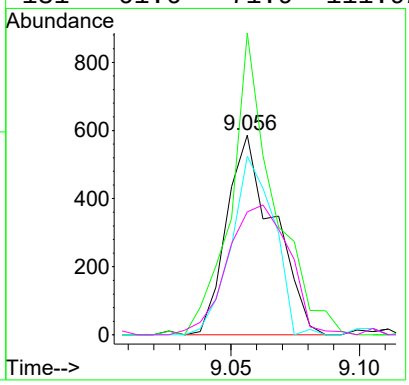




#72
Tetrachloroethene
Concen: 0.26 ug/L
RT: 9.056 min Scan# 1310
Delta R.T. 0.000 min
Lab File: F8417.D
Acq: 25 Feb 2024 09:28 pm

Tgt Ion:164 Resp: 749

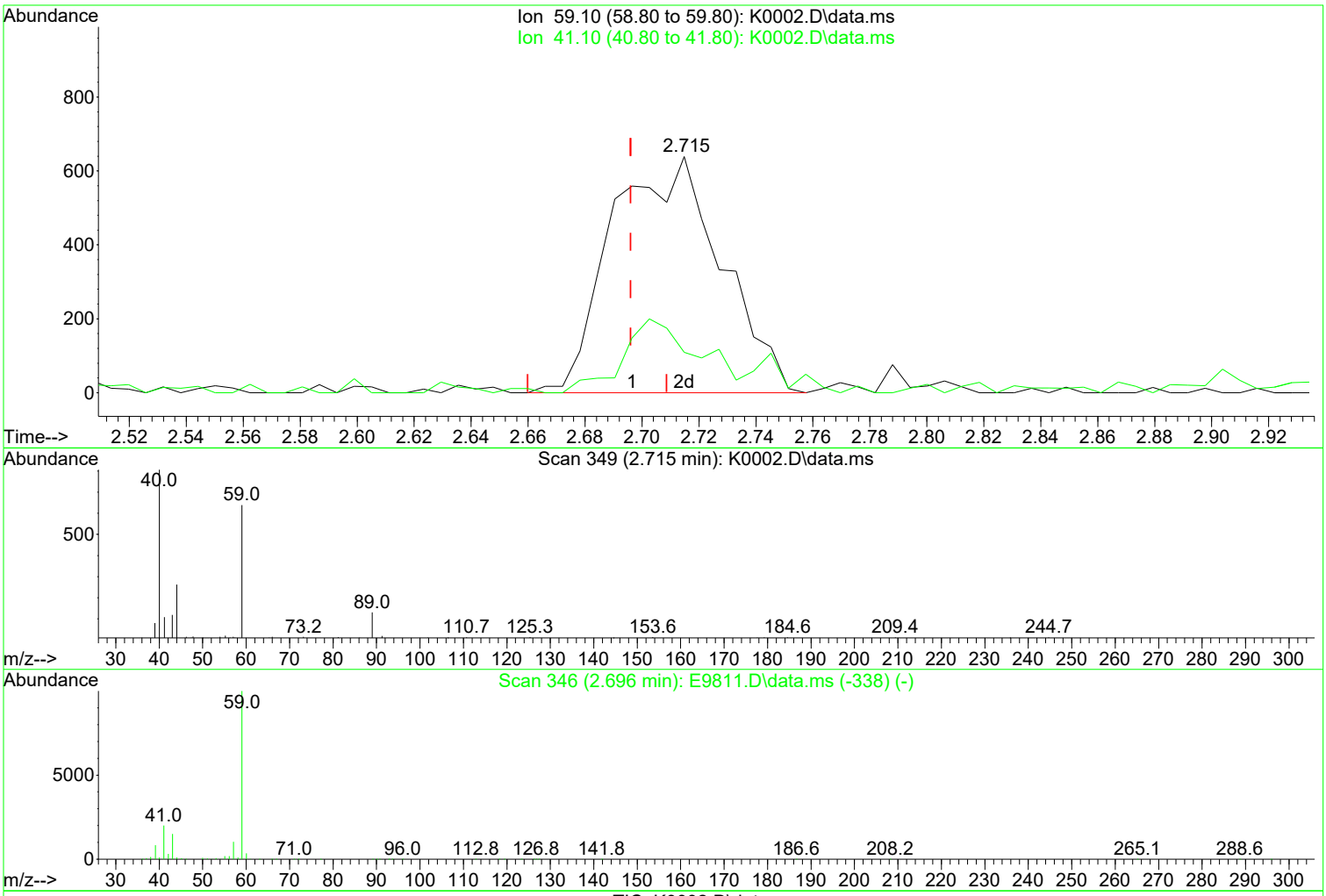
Ion	Ratio	Lower	Upper
164	100		
166	151.2	107.3	147.3#
129	89.4	73.1	113.1
131	61.6	71.9	111.9#



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : K0002.D
Acq On : 26 Feb 2024 05:31 pm
Operator : F.NAEGLER
Sample : R2401280-024
Misc : CEC 25499 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 27 08:19:36 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration



TIC: K0002.D\data.ms

(24) TBA

2.715min (+ 0.019) 2.76 ug/L m

response 1711

Ion	Exp%	Act%
59.10	100.00	100.00
41.10	20.30	17.06
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

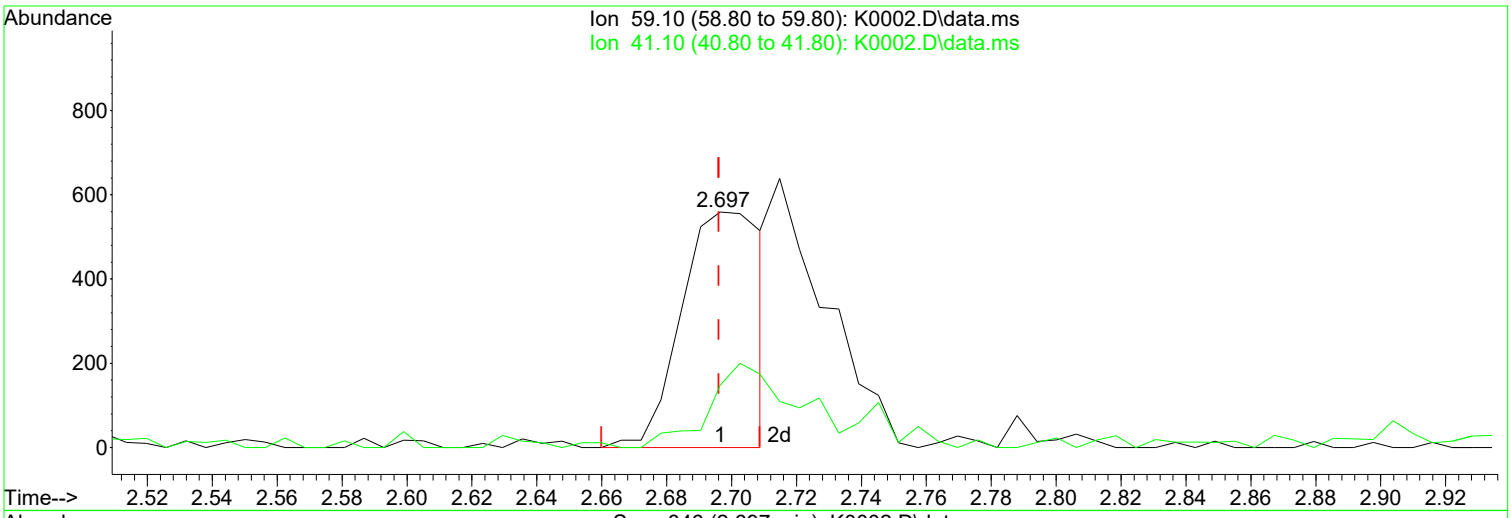
Poor integration.

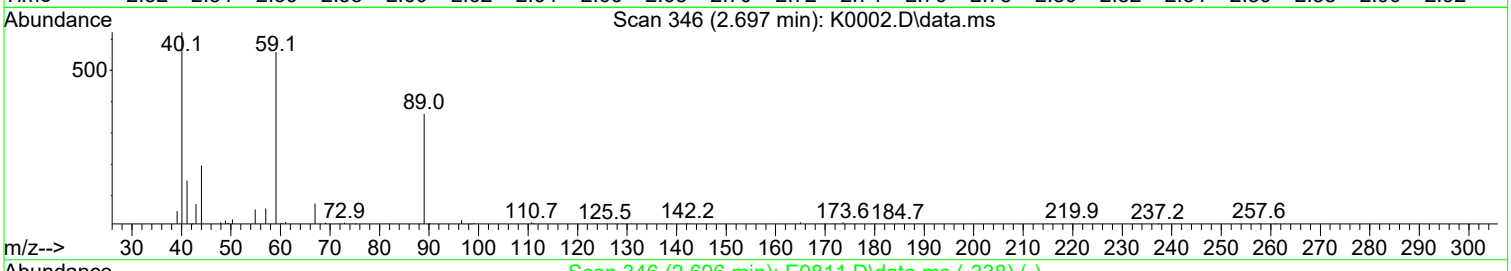
02/27/24

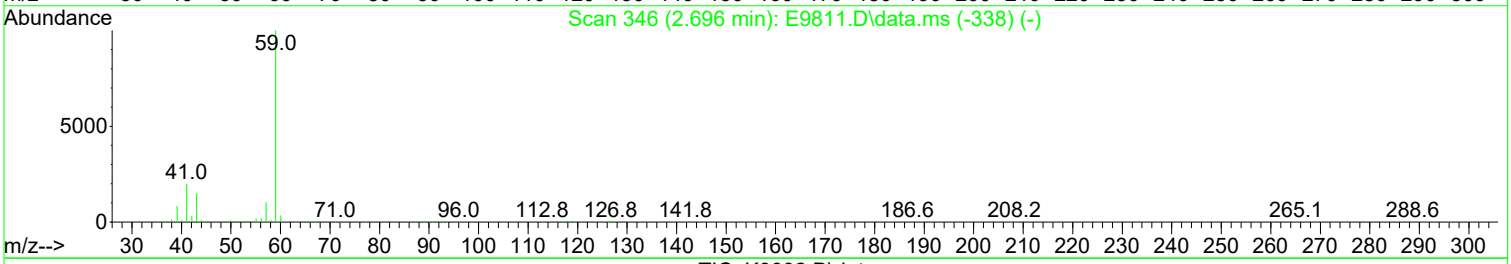
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : K0002.D
Acq On : 26 Feb 2024 05:31 pm
Operator : F.NAEGLER
Sample : R2401280-024
Misc : CEC 25499 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 27 08:19:36 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration







TIC: K0002.D\data.ms

(24) TBA

2.697min (+ 0.000) 1.54 ug/L

response 958

Ion	Exp%	Act%
59.10	100.00	100.00
41.10	20.30	26.48
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

02/27/24

1st FJ 02/27/24
2nd AM 02/28/24

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : K0002.D
Acq On : 26 Feb 2024 05:31 pm
Operator : F.NAEGLER
Sample : R2401280-024
Misc : CEC 25499 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 27 08:19:36 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration

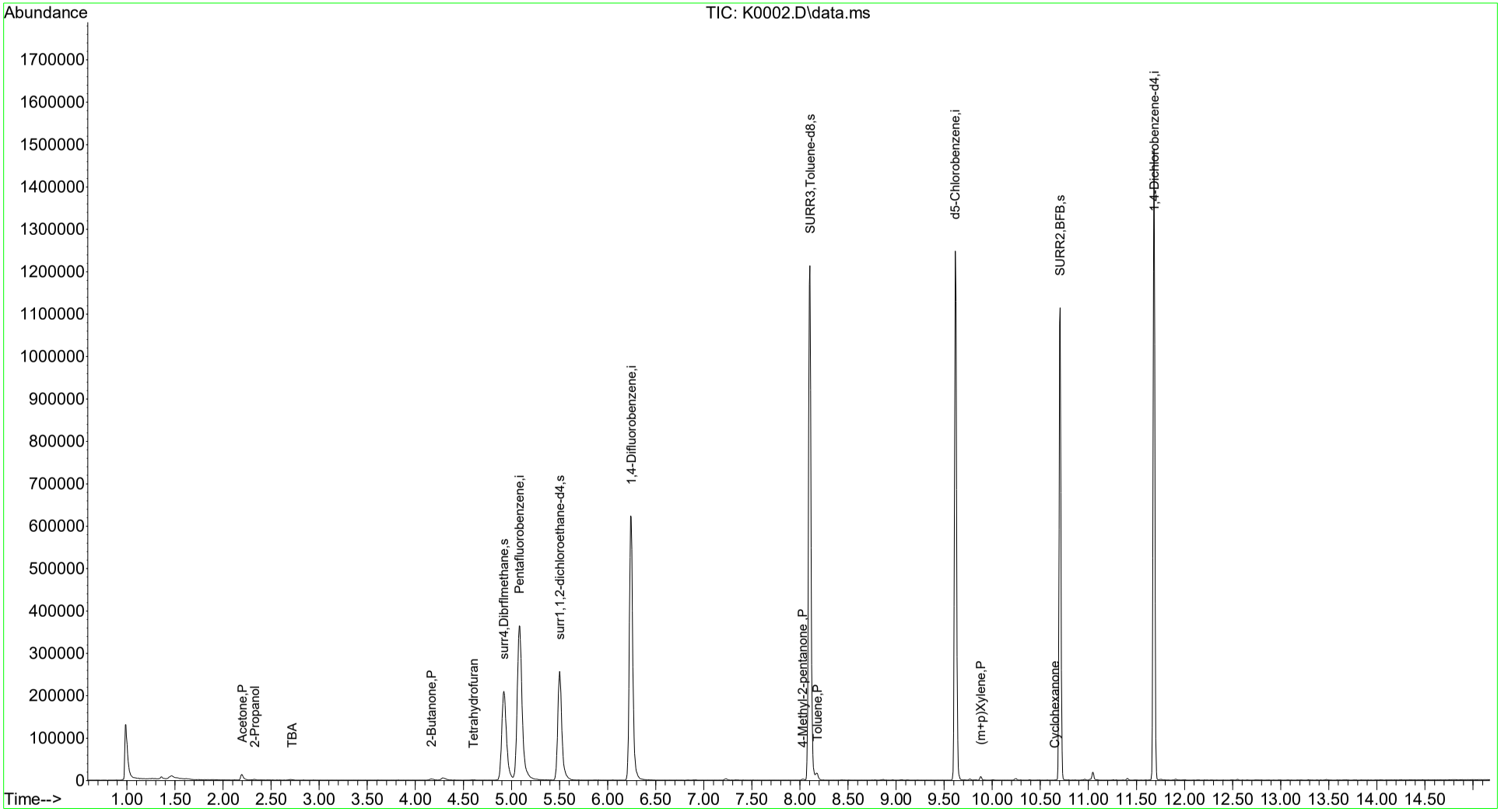
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.080	168	444895	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.245	114	668939	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.616	117	589880	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	11.683	152	285722	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.922	113	217943	50.27	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 100.54%			
48) surr1,1,2-dichloroetha...	5.501	65	278285	53.52	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 107.04%			
65) SURR3,Toluene-d8	8.104	98	795838	50.96	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.92%			
70) SURR2,BFB	10.707	95	300062	50.21	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.42%			
Target Compounds						Qvalue
16) Acetone	2.197	43	17983	8.641	ug/L	100
17) 2-Propanol	2.331	45	1941	5.423	ug/L	68
24) TBA	2.715	59	1711m	2.757	ug/L	
35) 2-Butanone	4.166	43	6282	2.340	ug/L	94
39) Tetrahydrofuran	4.605	42	628	0.382	ug/L	97
64) 4-Methyl-2-pentanone	8.031	43	1988	0.388	ug/L	87
66) Toluene	8.177	91	8459	0.541	ug/L	95
83) (m+p)Xylene	9.878	106	2015	0.293	ug/L #	64
89) Cyclohexanone	10.646	55	206	0.207	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

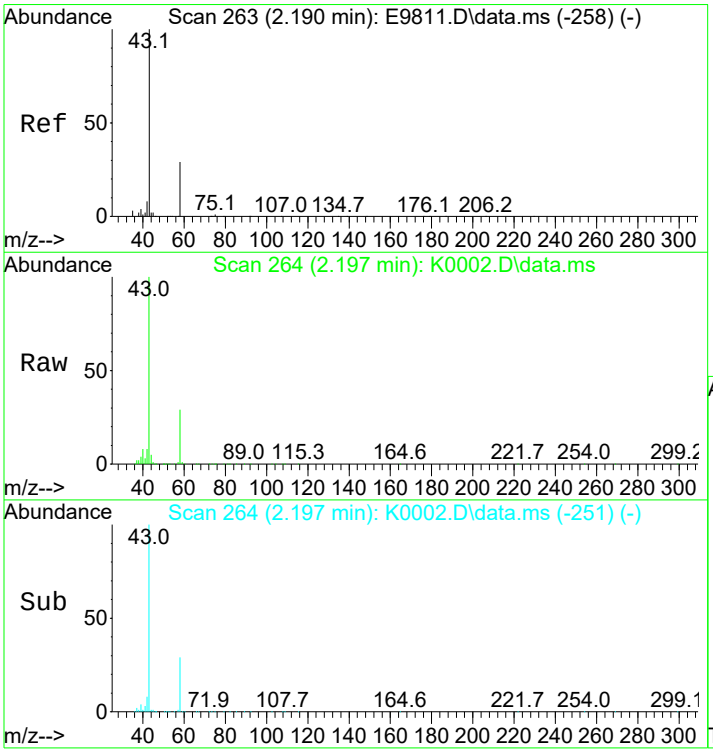
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : K0002.D
Acq On : 26 Feb 2024 05:31 pm
Operator : F.NAEGLER
Sample : R2401280-024
Misc : CEC 25499 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 27 08:19:36 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration



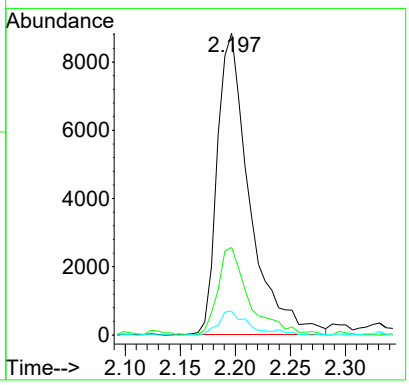
1st FJ 02/27/24
2nd AM 02/28/24

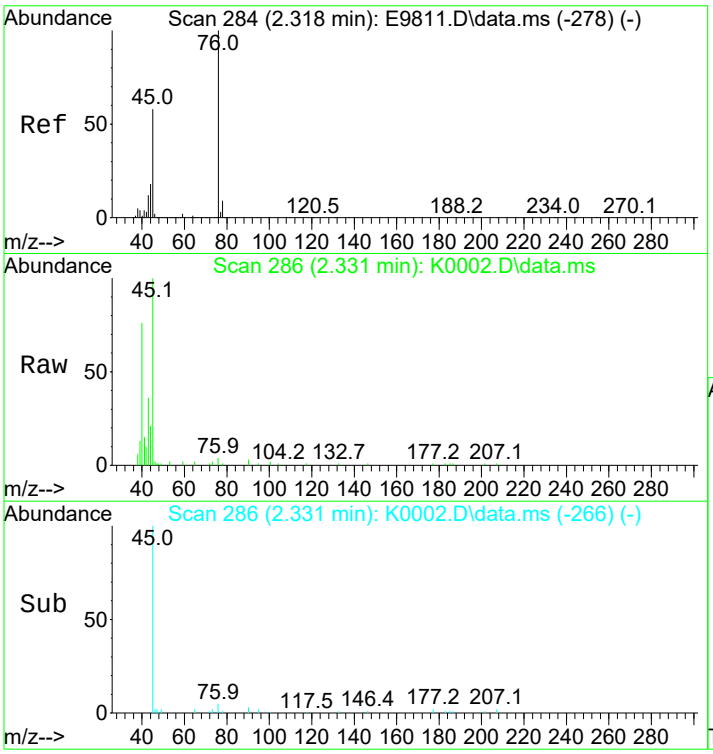


#16
Acetone
Concen: 8.64 ug/L
RT: 2.197 min Scan# 264
Delta R.T. 0.006 min
Lab File: K0002.D
Acq: 26 Feb 2024 05:31 pm

Tgt Ion: 43 Resp: 17983

Ion	Ratio	Lower	Upper
43	100		
58	29.0	9.3	49.3
42	7.9	0.0	27.8

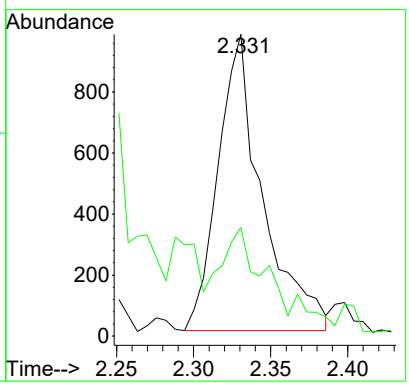


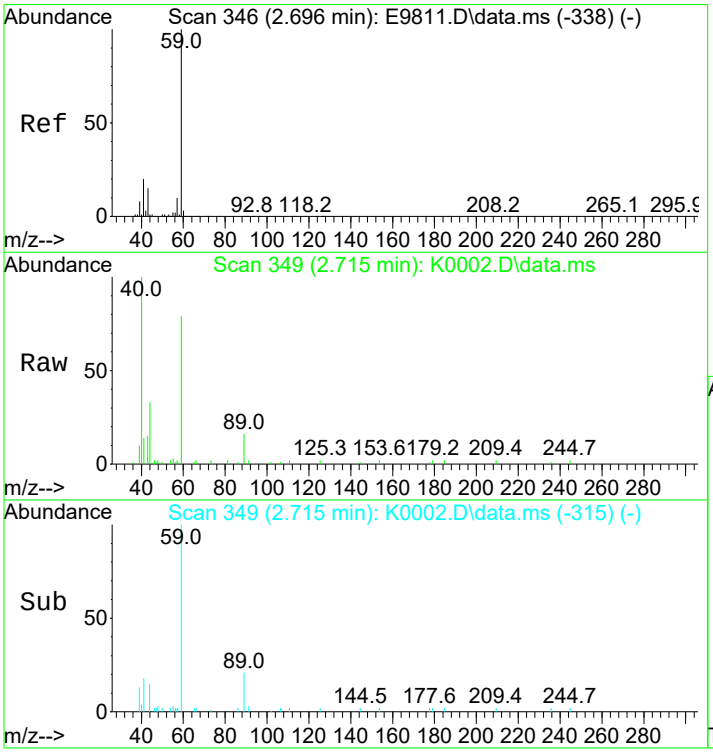


#17
2-Propanol
Concen: 5.42 ug/L
RT: 2.331 min Scan# 286
Delta R.T. 0.013 min
Lab File: K0002.D
Acq: 26 Feb 2024 05:31 pm

Tgt Ion: 45 Resp: 1941

Ion	Ratio	Lower	Upper
45	100		
43	36.0	0.9	40.9

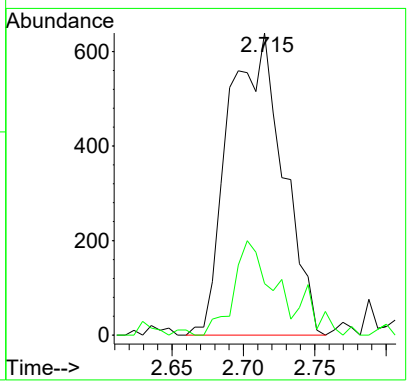


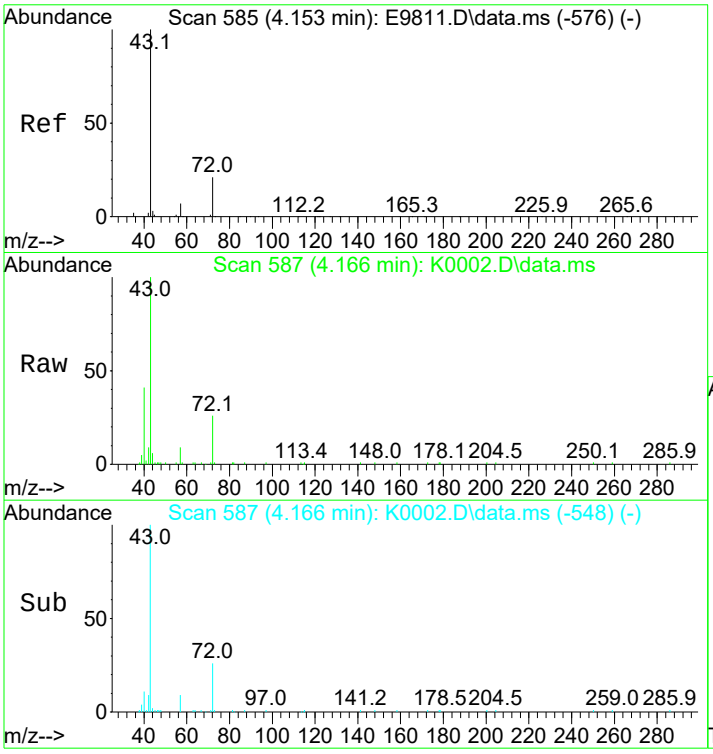


#24
TBA
Concen: 2.76 ug/L m
RT: 2.715 min Scan# 349
Delta R.T. 0.019 min
Lab File: K0002.D
Acq: 26 Feb 2024 05:31 pm

Tgt Ion: 59 Resp: 1711

Ion	Ratio	Lower	Upper
59	100		
41	17.1	0.3	40.3

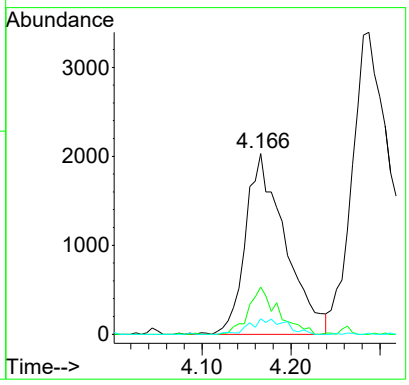


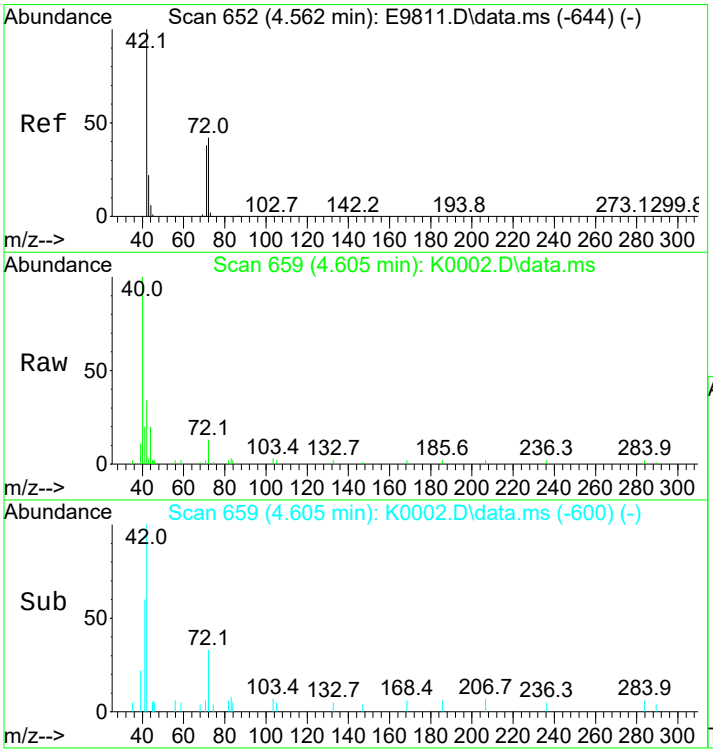


#35
2-Butanone
Concen: 2.34 ug/L
RT: 4.166 min Scan# 587
Delta R.T. 0.013 min
Lab File: K0002.D
Acq: 26 Feb 2024 05:31 pm

Tgt Ion: 43 Resp: 6282

Ion	Ratio	Lower	Upper
43	100		
72	26.2	2.6	42.6
57	8.7	0.0	27.8

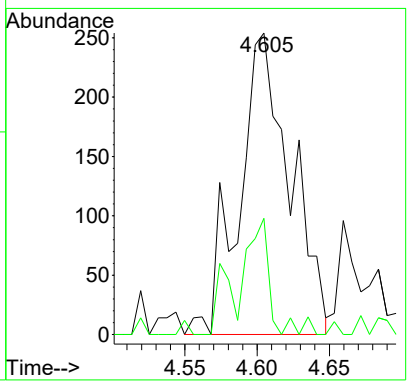


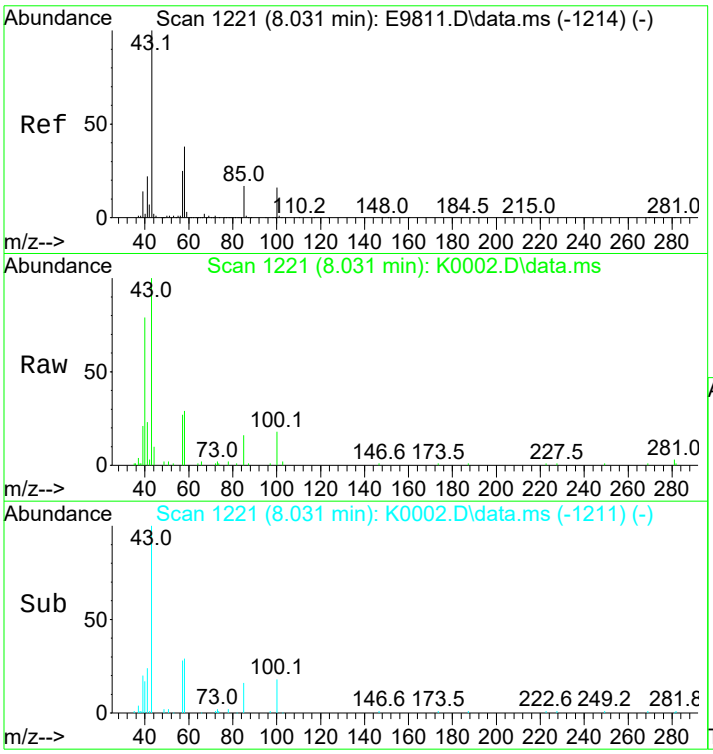


#39
Tetrahydrofuran
Concen: 0.38 ug/L
RT: 4.605 min Scan# 659
Delta R.T. 0.043 min
Lab File: K0002.D
Acq: 26 Feb 2024 05:31 pm

Tgt Ion: 42 Resp: 628

Ion	Ratio	Lower	Upper
42	100		
72	38.6	20.6	60.6

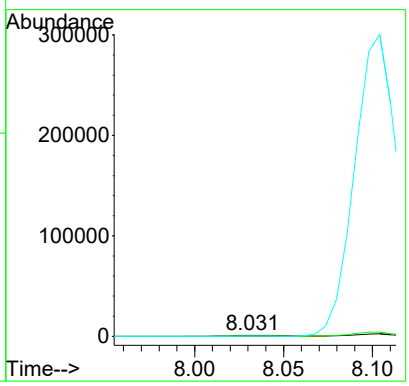


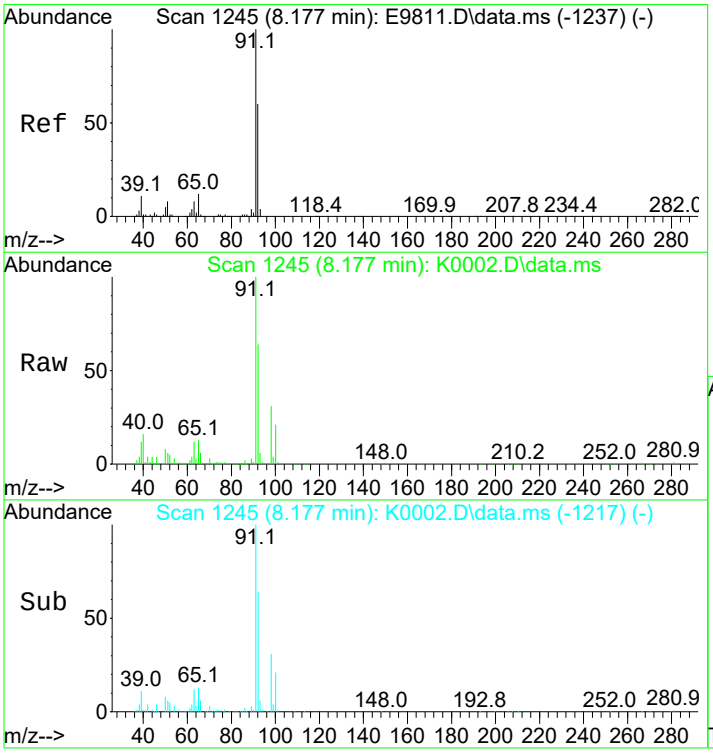


#64
4-Methyl-2-pentanone
Concen: 0.39 ug/L
RT: 8.031 min Scan# 1221
Delta R.T. 0.000 min
Lab File: K0002.D
Acq: 26 Feb 2024 05:31 pm

Tgt Ion: 43 Resp: 1988

Ion	Ratio	Lower	Upper
43	100		
58	28.6	18.0	58.0
100	18.0	0.0	35.8

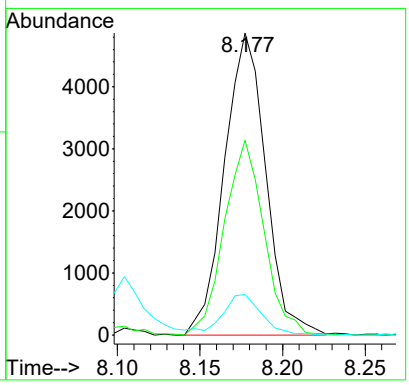


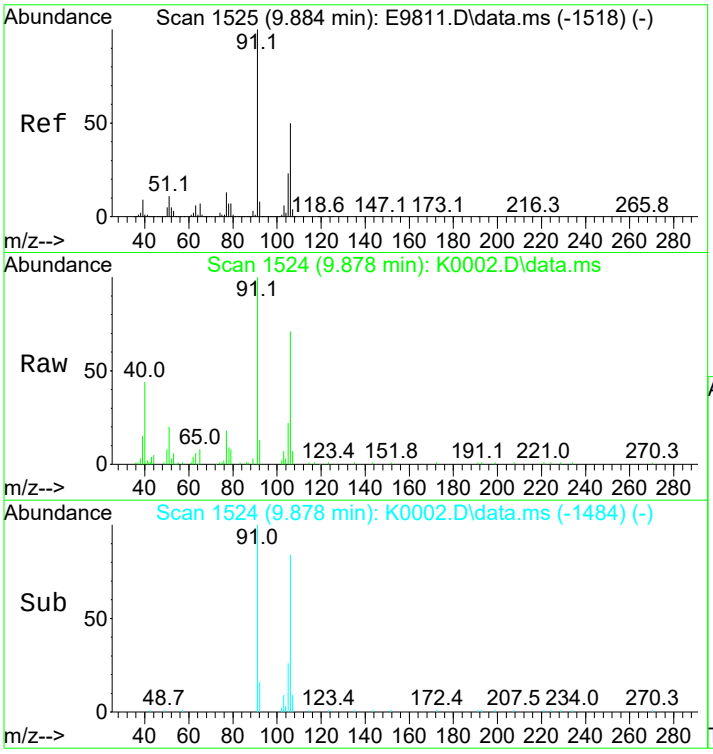


#66
Toluene
Concen: 0.54 ug/L
RT: 8.177 min Scan# 1245
Delta R.T. 0.000 min
Lab File: K0002.D
Acq: 26 Feb 2024 05:31 pm

Tgt Ion: 91 Resp: 8459

Ion	Ratio	Lower	Upper
91	100		
92	64.5	40.4	80.4
65	13.4	0.0	31.7

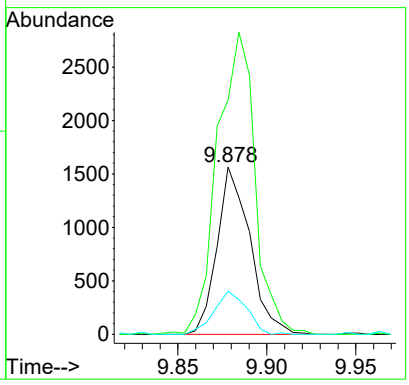


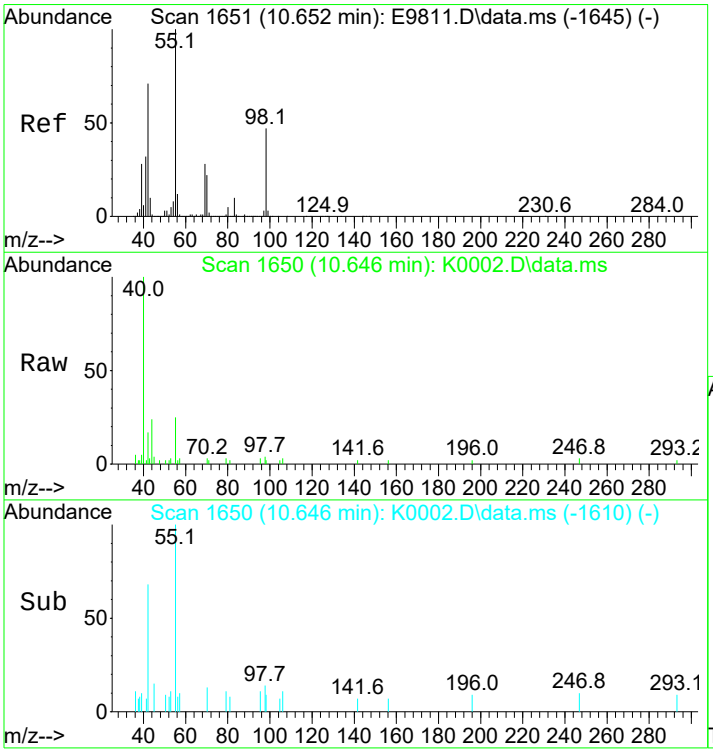


#83
(m+p)Xylene
Concen: 0.29 ug/L
RT: 9.878 min Scan# 1524
Delta R.T. -0.006 min
Lab File: K0002.D
Acq: 26 Feb 2024 05:31 pm

Tgt Ion:106 Resp: 2015

Ion	Ratio	Lower	Upper
106	100		
91	140.0	181.4	221.4#
77	25.8	5.6	45.6

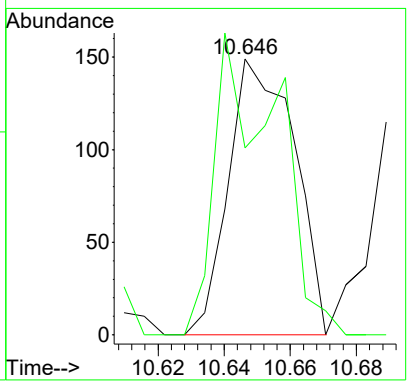




#89
Cyclohexanone
Concen: 0.21 ug/L
RT: 10.646 min Scan# 1650
Delta R.T. -0.006 min
Lab File: K0002.D
Acq: 26 Feb 2024 05:31 pm

Tgt Ion: 55 Resp: 206

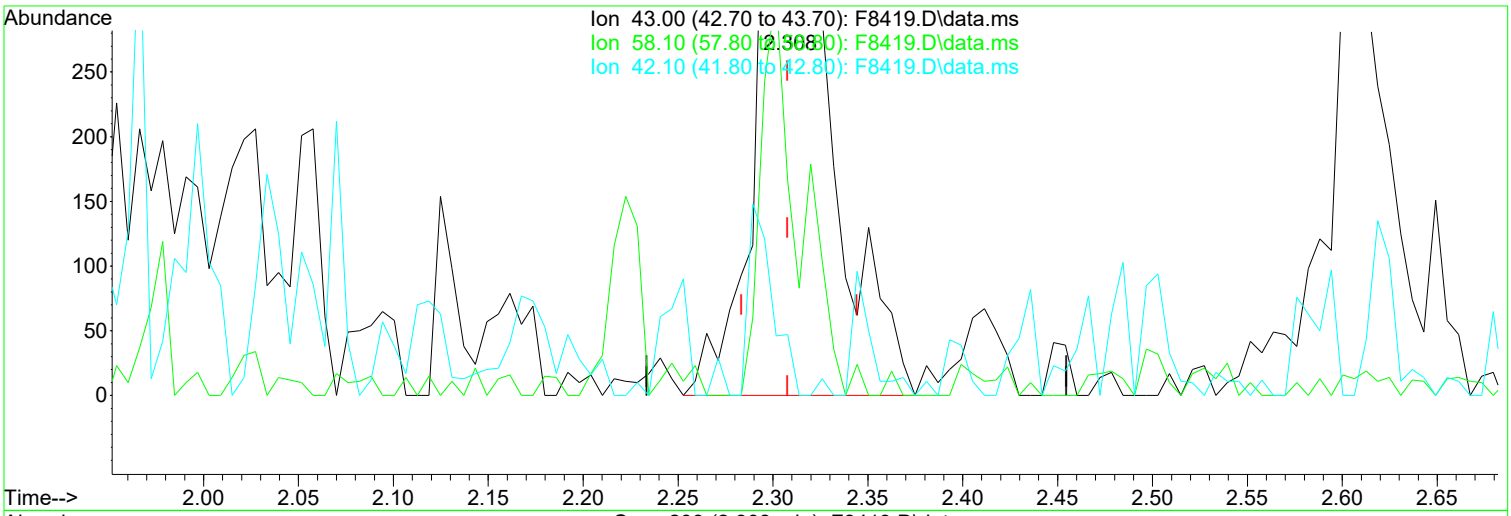
Ion	Ratio	Lower	Upper
55	100		
42	67.8	51.3	91.3

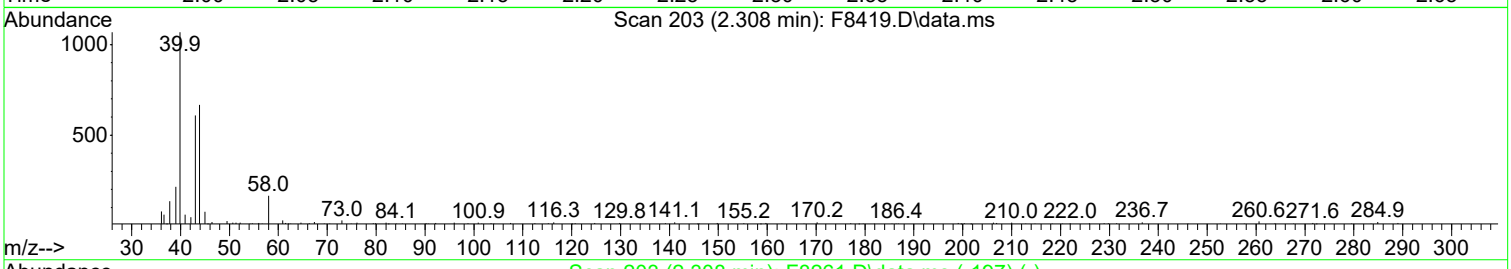


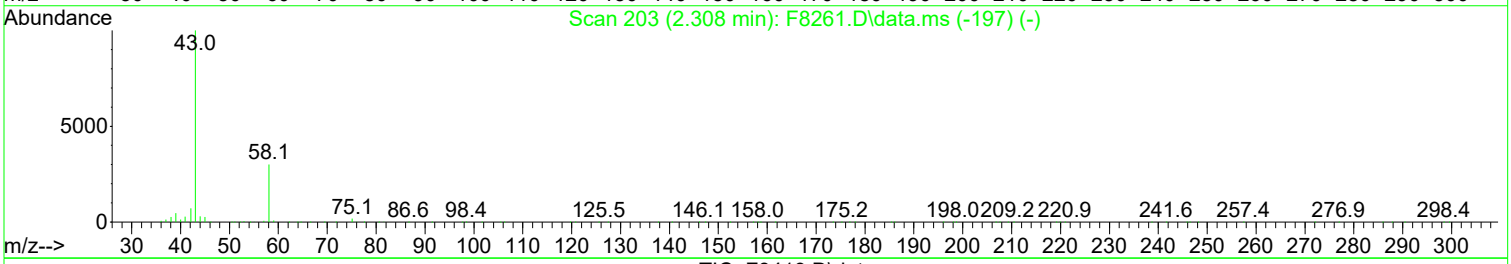
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8419.D
Acq On : 25 Feb 2024 10:13 pm
Operator : F.NAEGLER
Sample : R2401280-025
Misc : CEC 25499 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Feb 26 09:04:58 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8419.D\data.ms

(16) Acetone (P)

2.308min (+ 0.000) 0.58 ug/L m

response 1407

Ion	Exp%	Act%
43.00	100.00	100.00
58.10	30.00	27.30
42.10	7.20	7.73
0.00	0.00	0.00

Manual Integration:

After

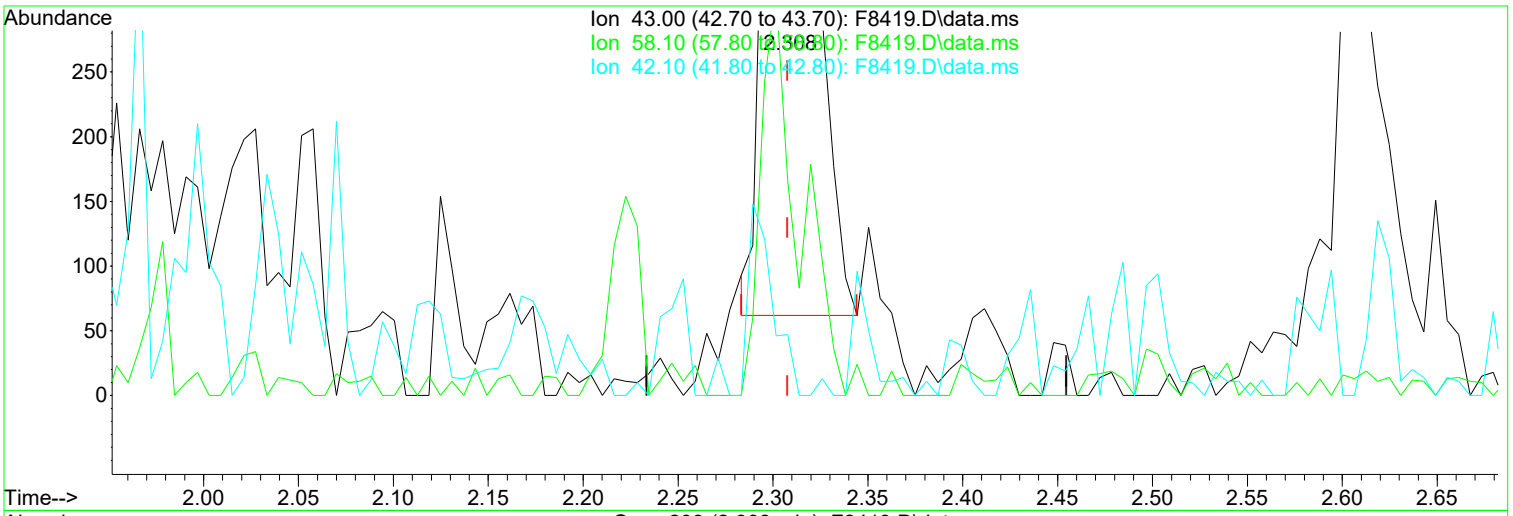
Poor integration.

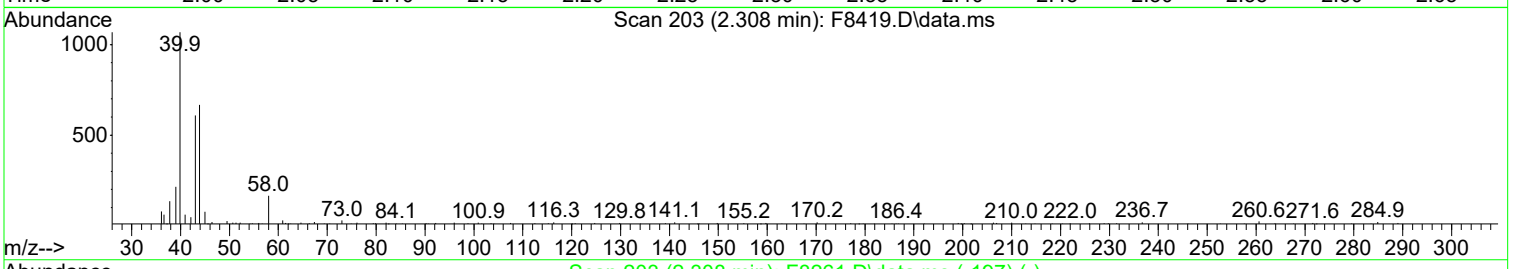
02/27/24

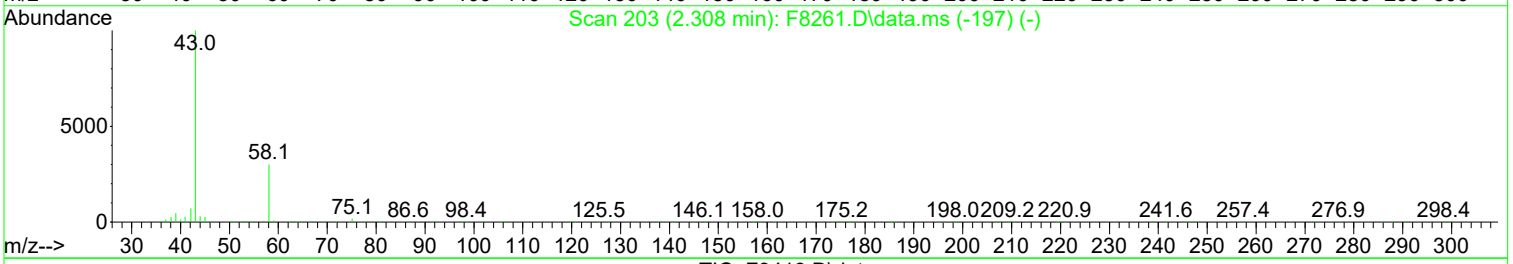
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8419.D
Acq On : 25 Feb 2024 10:13 pm
Operator : F.NAEGLER
Sample : R2401280-025
Misc : CEC 25499 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Feb 26 09:04:58 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8419.D\data.ms

(16) Acetone (P)

2.308min (+ 0.000) 0.40 ug/L

response 983

Ion	Exp%	Act%
43.00	100.00	100.00
58.10	30.00	27.30
42.10	7.20	7.73
0.00	0.00	0.00

Manual Integration:

Before

02/27/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8419.D
Acq On : 25 Feb 2024 10:13 pm
Operator : F.NAEGLER
Sample : R2401280-025
Misc : CEC 25499 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Feb 26 09:04:58 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

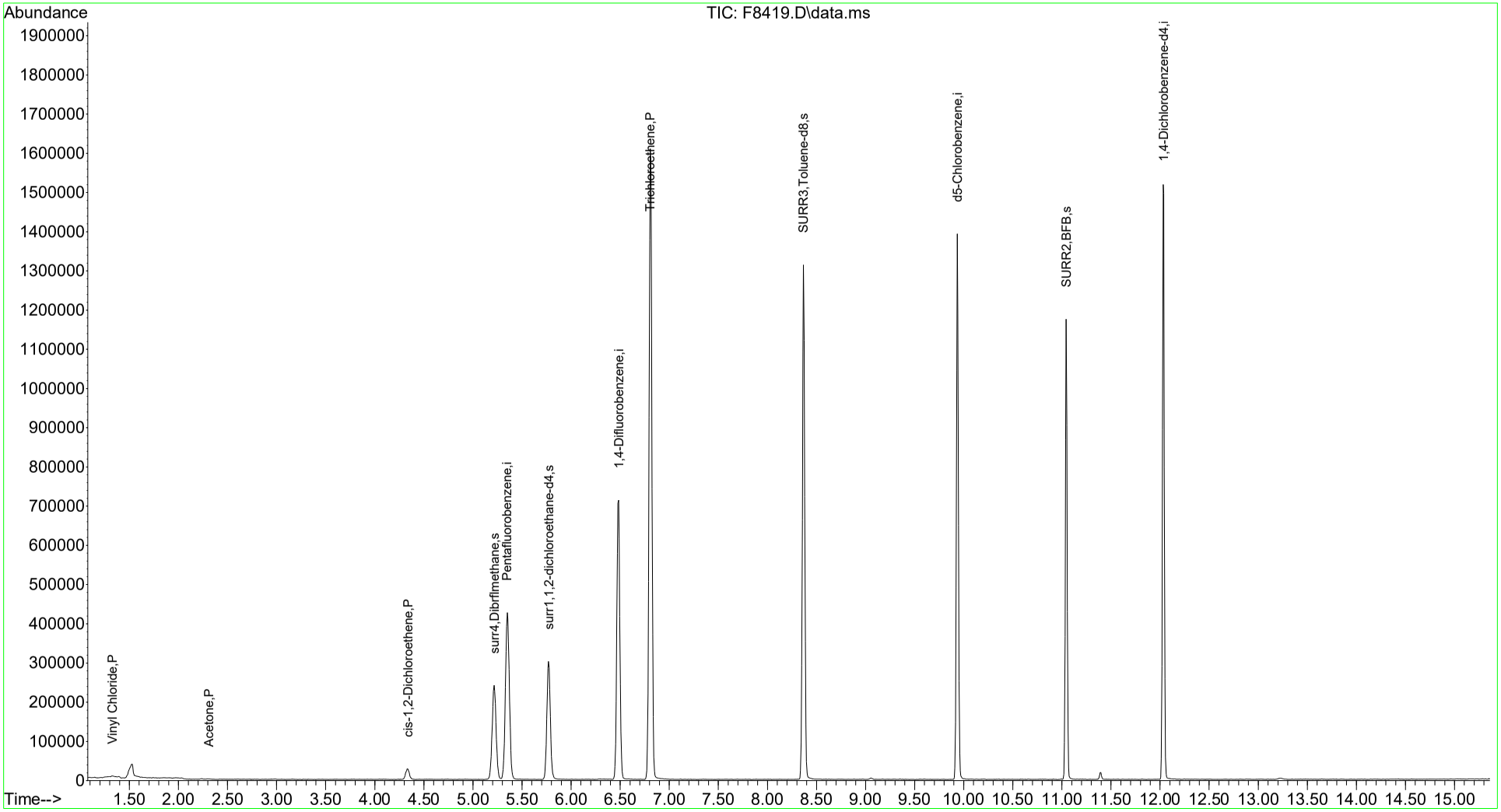
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.350	168	411256	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.484	114	646164	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.934	117	614415	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	12.038	152	306099	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.216	113	196738	47.49	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 94.98%			
48) surr1,1,2-dichloroetha...	5.770	65	263469	48.46	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 96.92%			
65) SURR3,Toluene-d8	8.367	98	798848	47.41	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 94.82%			
70) SURR2,BFB	11.044	95	279337	43.65	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 87.30%			
Target Compounds						Qvalue
4) Chloromethane	1.247	50	727m	Below Cal		
5) Vinyl Chloride	1.326	62	1310	0.262	ug/L	93
16) Acetone	2.308	43	1407m	0.577	ug/L	
34) cis-1,2-Dichloroethene	4.338	96	15074	3.599	ug/L #	77
54) Trichloroethene	6.807	130	567881	146.644	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

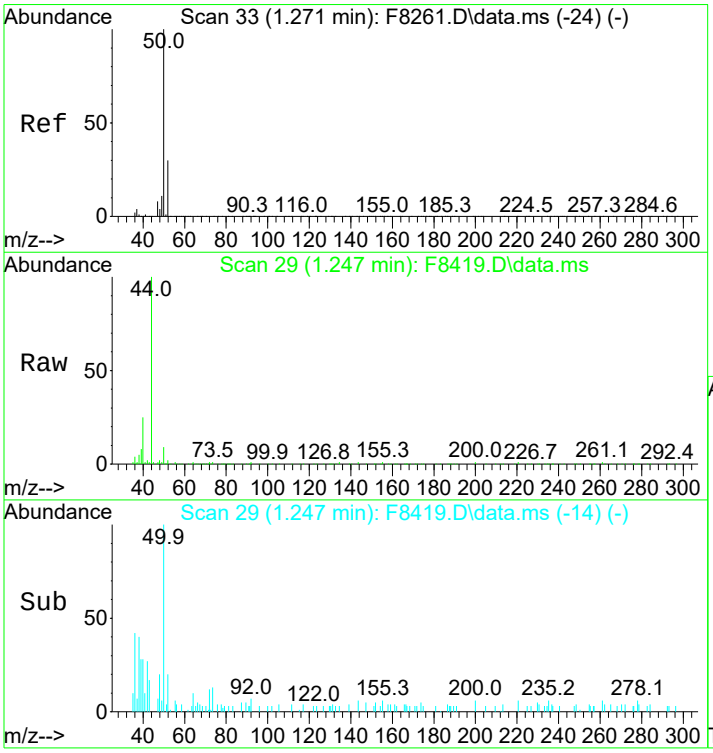
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8419.D
Acq On : 25 Feb 2024 10:13 pm
Operator : F.NAEGLER
Sample : R2401280-025
Misc : CEC 25499 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Feb 26 09:04:58 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



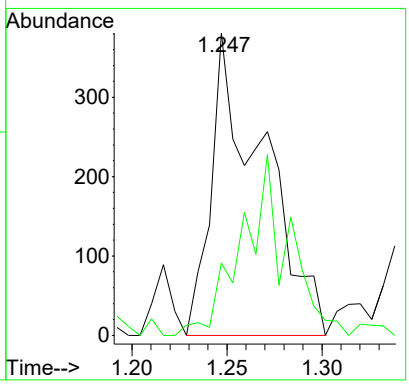
1st FJ 02/27/24
2nd AM 02/28/24

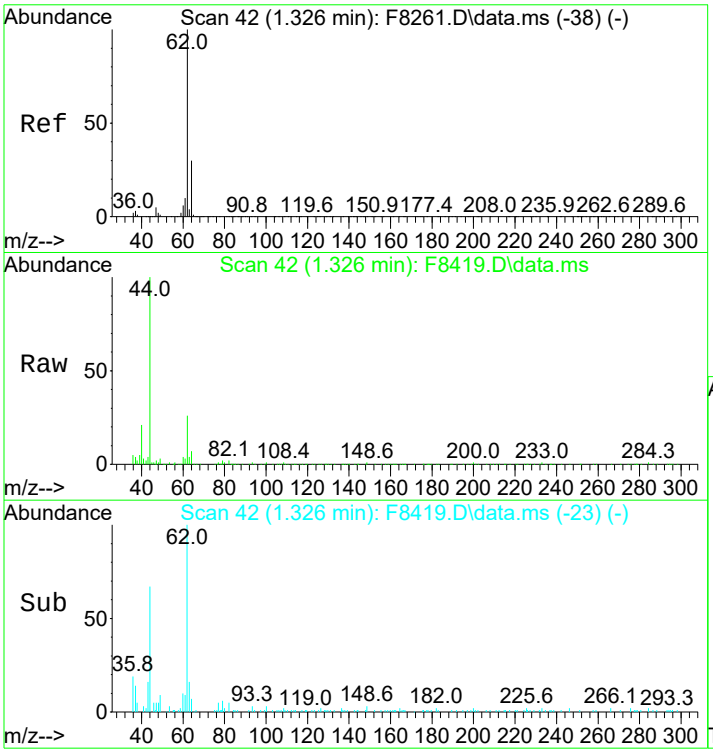


#4
Chloromethane
Concen: Below Cal m
RT: 1.247 min Scan# 29
Delta R.T. -0.024 min
Lab File: F8419.D
Acq: 25 Feb 2024 10:13 pm

Tgt Ion: 50 Resp: 727

Ion	Ratio	Lower	Upper
50	100		
52	23.9	10.3	50.3

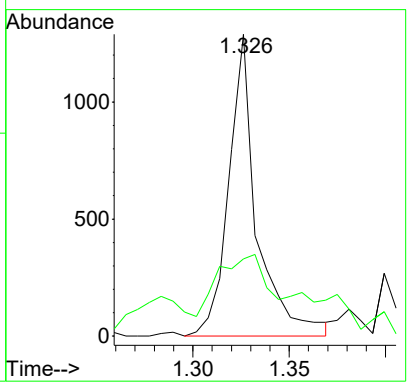


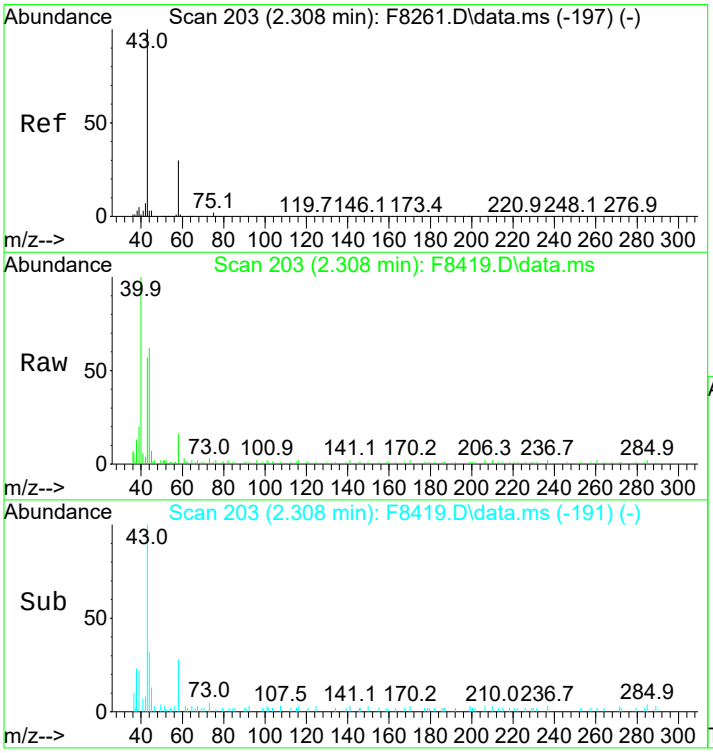


#5
Vinyl Chloride
Concen: 0.26 ug/L
RT: 1.326 min Scan# 42
Delta R.T. 0.000 min
Lab File: F8419.D
Acq: 25 Feb 2024 10:13 pm

Tgt Ion: 62 Resp: 1310

Ion	Ratio	Lower	Upper
62	100		
64	25.6	9.6	49.6

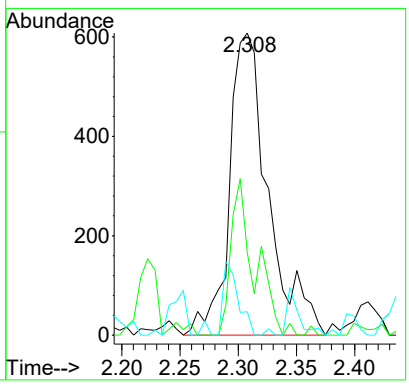


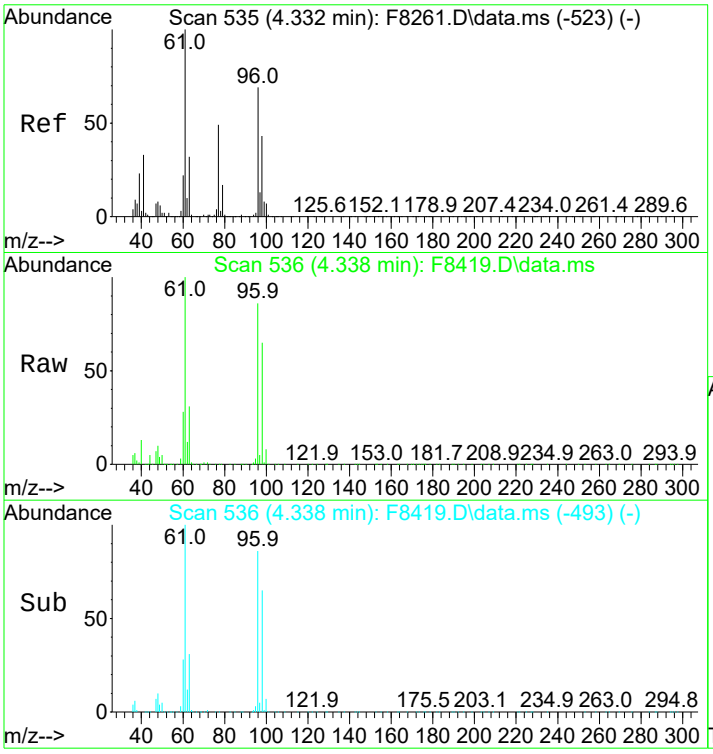


#16
Acetone
Concen: 0.58 ug/L m
RT: 2.308 min Scan# 203
Delta R.T. 0.000 min
Lab File: F8419.D
Acq: 25 Feb 2024 10:13 pm

Tgt Ion: 43 Resp: 1407

Ion	Ratio	Lower	Upper
43	100		
58	27.3	10.0	50.0
42	7.7	0.0	27.2

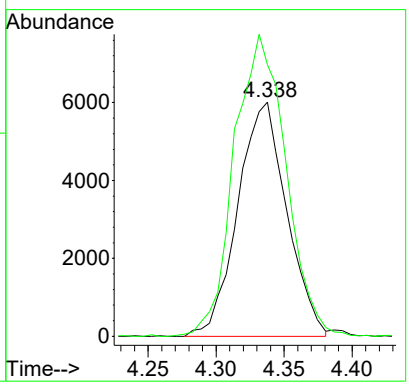


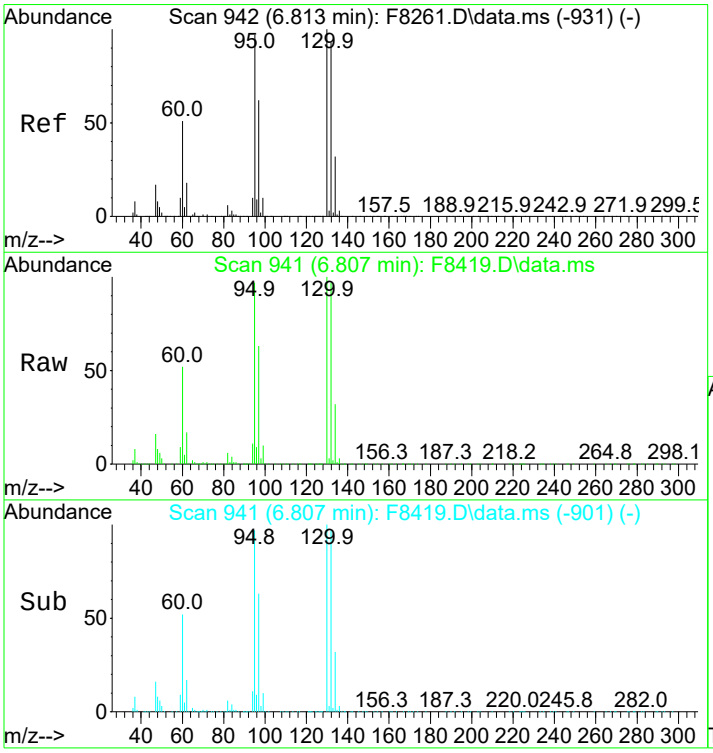


#34
cis-1,2-Dichloroethene
Concen: 3.60 ug/L
RT: 4.338 min Scan# 536
Delta R.T. 0.006 min
Lab File: F8419.D
Acq: 25 Feb 2024 10:13 pm

Tgt Ion: 96 Resp: 15074

Ion	Ratio	Lower	Upper
96	100		
61	116.0	124.5	164.5#

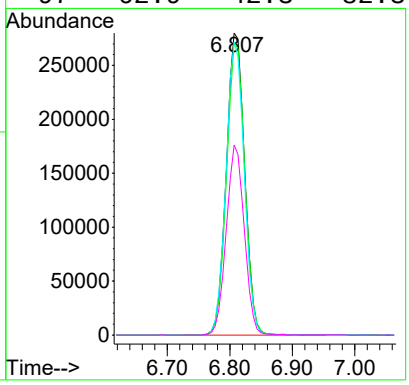




#54
Trichloroethene
Concen: 146.64 ug/L
RT: 6.807 min Scan# 941
Delta R.T. -0.006 min
Lab File: F8419.D
Acq: 25 Feb 2024 10:13 pm

Tgt Ion:130 Resp: 567881

Ion	Ratio	Lower	Upper
130	100		
132	96.7	73.2	113.2
95	97.1	77.2	117.2
97	62.9	42.3	82.3



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8370.D
Acq On : 23 Feb 2024 01:06 pm
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 23 13:21:49 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

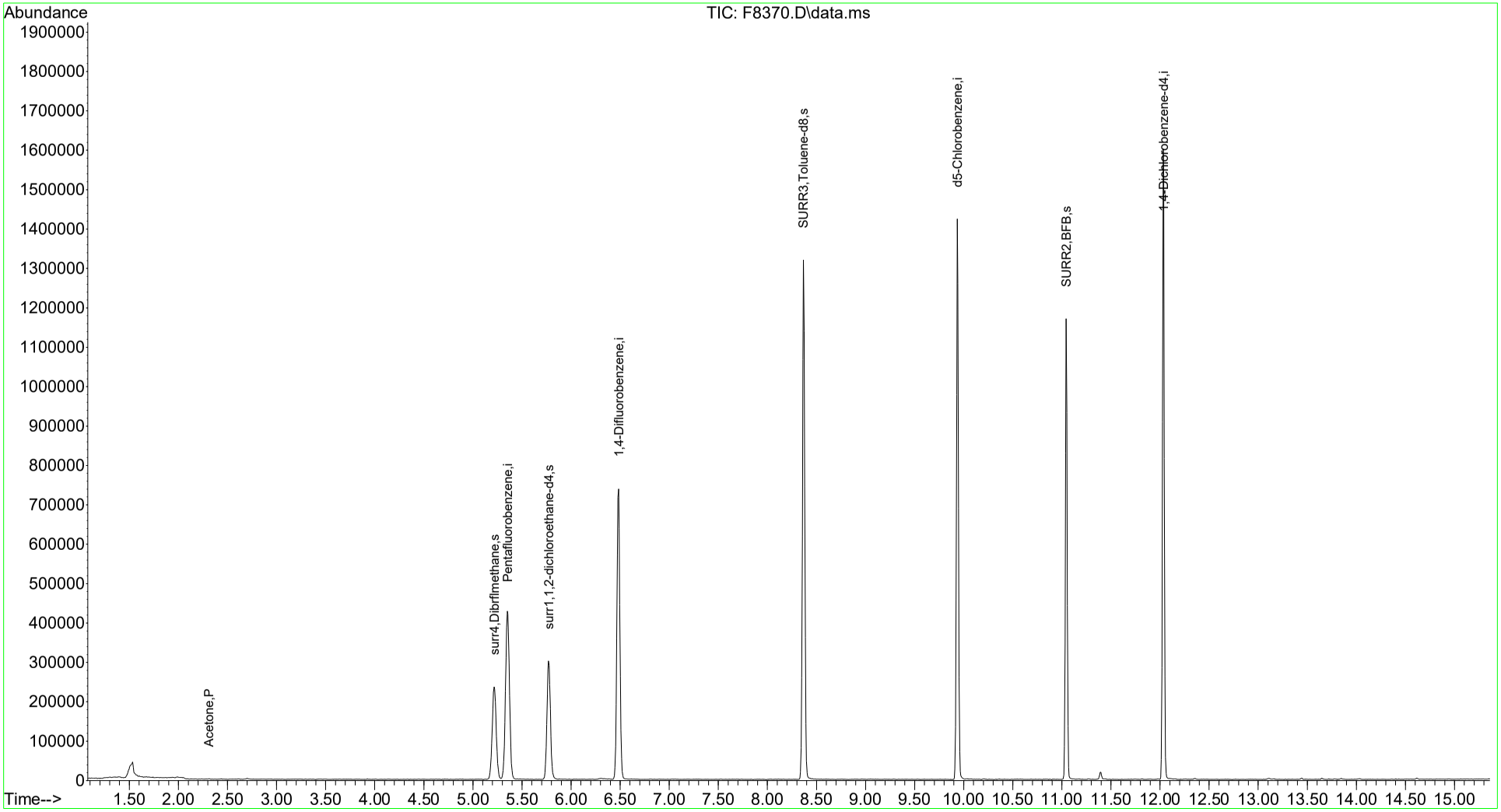
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.356	168	411382	50.00 ug/L	0.00
43) 1,4-Difluorobenzene	6.484	114	653903	50.00 ug/L	0.00
71) d5-Chlorobenzene	9.934	117	614313	50.00 ug/L	0.00
91) 1,4-Dichlorobenzene-d4	12.038	152	309811	50.00 ug/L	0.00
System Monitoring Compounds					
45) surr4,Dibrflmethane	5.216	113	196514	46.88 ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 93.76%		
48) surr1,1,2-dichloroetha...	5.771	65	267657	48.65 ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 97.30%		
65) SURR3,Toluene-d8	8.368	98	785060	46.04 ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 92.08%		
70) SURR2,BFB	11.044	95	278737	43.04 ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 86.08%		
Target Compounds					Qvalue
4) Chloromethane	1.247	50	317	Below Cal	96
16) Acetone	2.308	43	1142	0.468 ug/L	98
23) Methylene Chloride	2.704	84	831	Below Cal	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

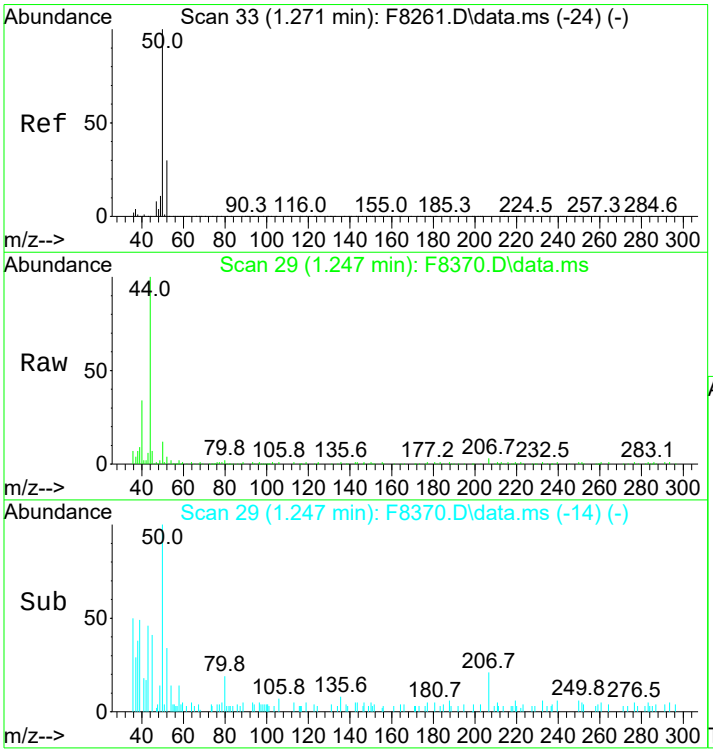
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8370.D
Acq On : 23 Feb 2024 01:06 pm
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 23 13:21:49 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



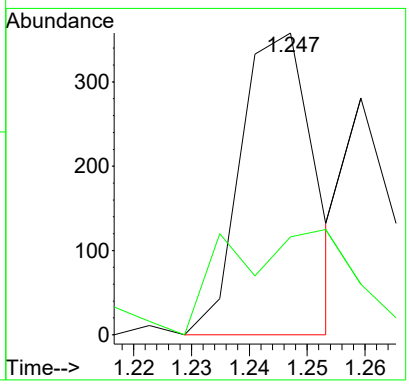
1st FJ 02/26/24
2nd AM 02/27/24

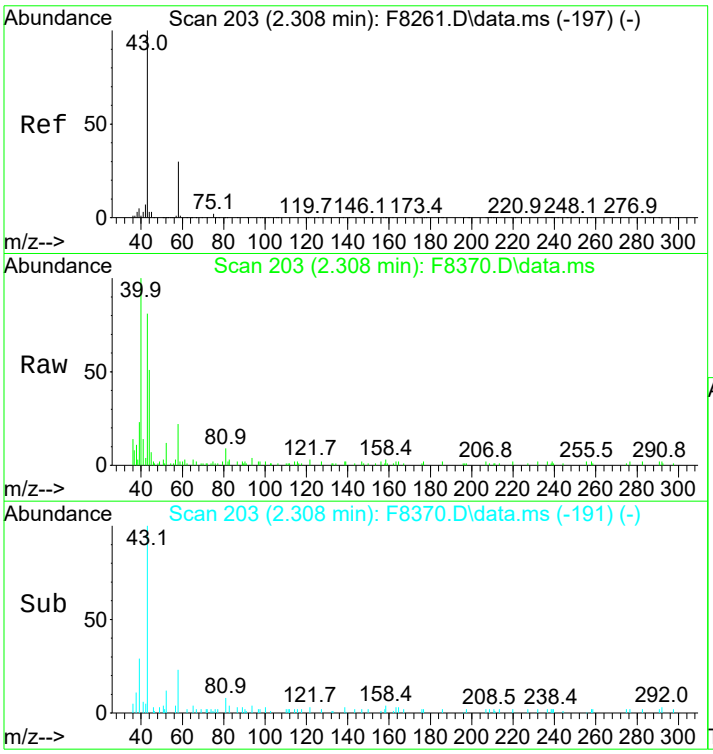


#4
Chloromethane
Concen: Below Cal
RT: 1.247 min Scan# 29
Delta R.T. -0.024 min
Lab File: F8370.D
Acq: 23 Feb 2024 01:06 pm

Tgt Ion: 50 Resp: 317

Ion	Ratio	Lower	Upper
50	100		
52	32.4	10.3	50.3

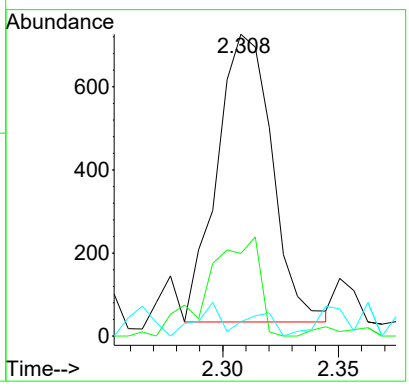


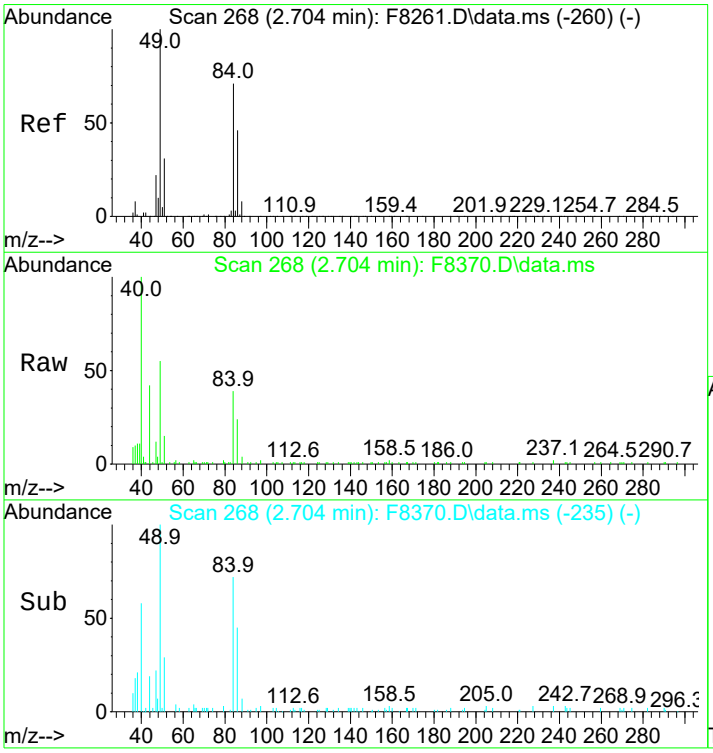


#16
Acetone
Concen: 0.47 ug/L
RT: 2.308 min Scan# 203
Delta R.T. 0.000 min
Lab File: F8370.D
Acq: 23 Feb 2024 01:06 pm

Tgt Ion: 43 Resp: 1142

Ion	Ratio	Lower	Upper
43	100		
58	29.5	10.0	50.0
42	4.8	0.0	27.2

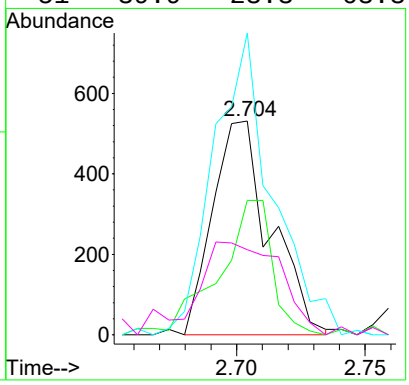




#23
Methylene Chloride
Concen: Below Cal
RT: 2.704 min Scan# 268
Delta R.T. 0.001 min
Lab File: F8370.D
Acq: 23 Feb 2024 01:06 pm

Tgt Ion: 84 Resp: 831

Ion	Ratio	Lower	Upper
84	100		
86	62.9	45.1	85.1
49	141.2	120.9	160.9
51	39.9	23.3	63.3



1st FJ 02/26/24
2nd AM 02/27/24

LSC Area Percent Report

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8370.D
Acq On : 23 Feb 2024 01:06 pm
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 250 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0.1 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Title : MS#14 - 8260 WATERS 5mL Purge

Signal : TIC: F8370.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.534	64	76	85	rBV3	39309	129617	6.08%	1.091%
2	5.216	668	680	691	rBV2	234767	668650	31.38%	5.626%
3	5.350	691	702	717	rVB	426393	1187905	55.74%	9.995%
4	5.771	758	771	787	rBV	300778	748036	35.10%	6.294%
5	6.484	878	888	899	rBV	737162	1555634	73.00%	13.089%
6	8.368	1188	1197	1206	rBV	1318548	2131140	100.00%	17.931%
7	9.934	1447	1454	1467	rBV	1422650	1953515	91.67%	16.436%
8	11.044	1631	1636	1652	rVB	1168928	1461612	68.58%	12.298%
9	11.391	1689	1693	1698	rBV2	17761	24850	1.17%	0.209%
10	12.032	1793	1798	1807	rBV	1600439	2024395	94.99%	17.033%

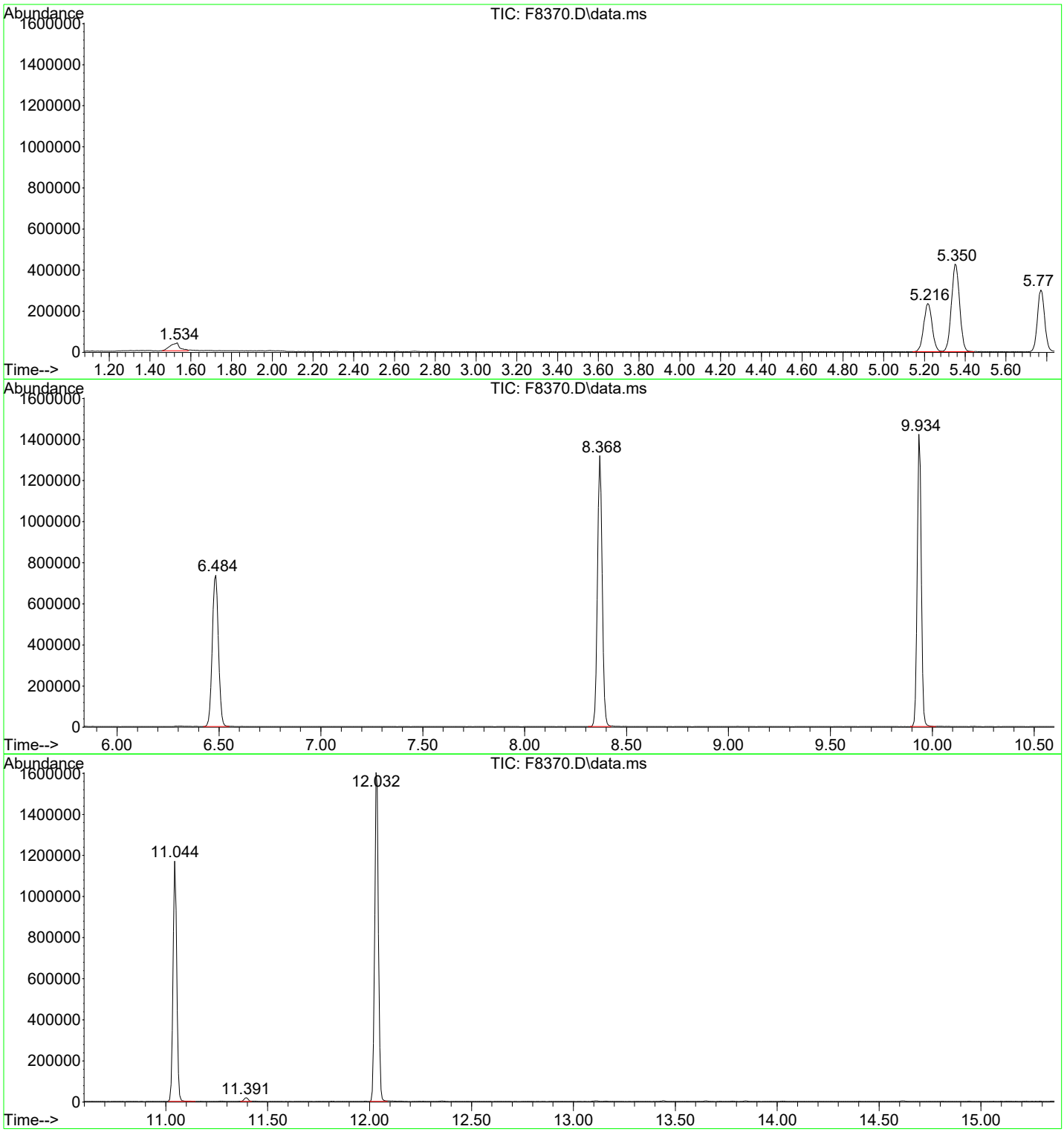
Sum of corrected areas: 11885354

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8370.D
Acq On : 23 Feb 2024 01:06 pm
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8370.D
Acq On : 23 Feb 2024 01:06 pm
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge

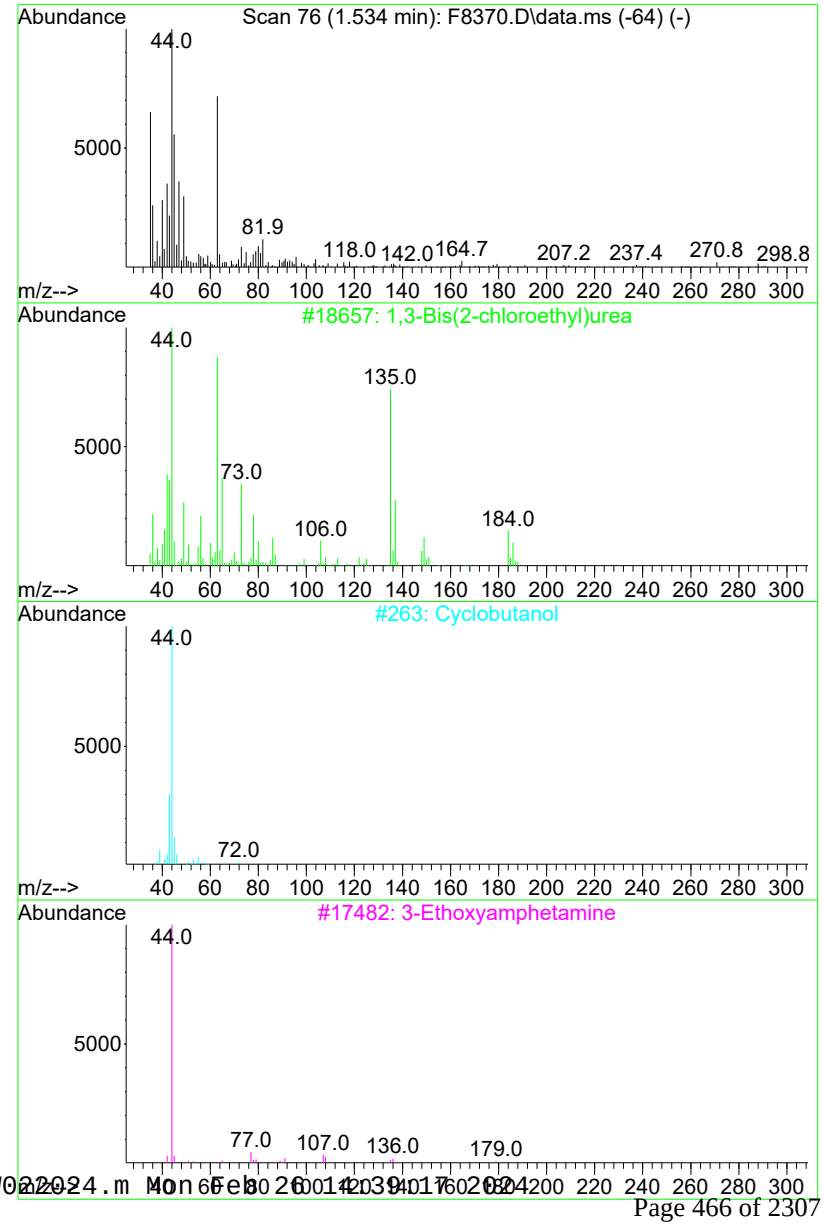
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

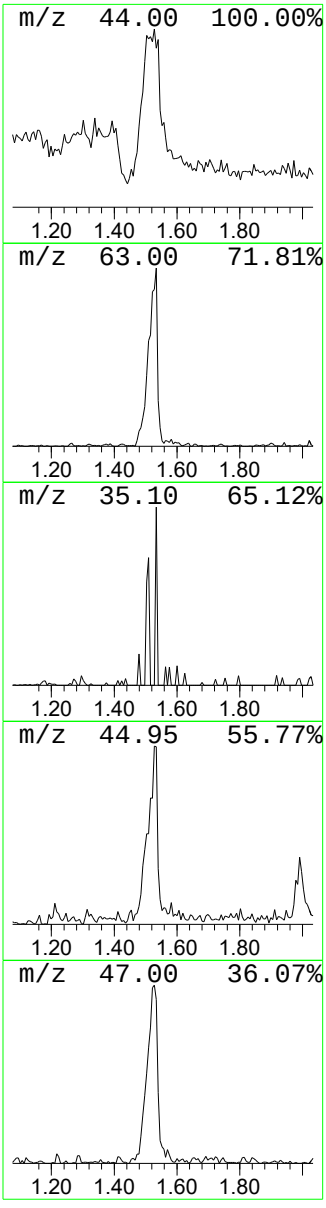
****

Peak Number 1 unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.534	5.46 ug/L	129617	Pentafluorobenzene	5.356

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Bis(2-chloroethyl)urea	184	C5H10Cl2N2O	002214-72-4	37
2	Cyclobutanol	72	C4H8O	002919-23-5	11
3	3-Ethoxyamphetamine	179	C11H17NO	000000-00-0	9
4	1-Propanamine, N-nitro-	104	C3H8N2O2	000627-07-6	9
5	Phosgene	98	CCl2O	000075-44-5	9





Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8370.D
Acq On : 23 Feb 2024 01:06 pm
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge

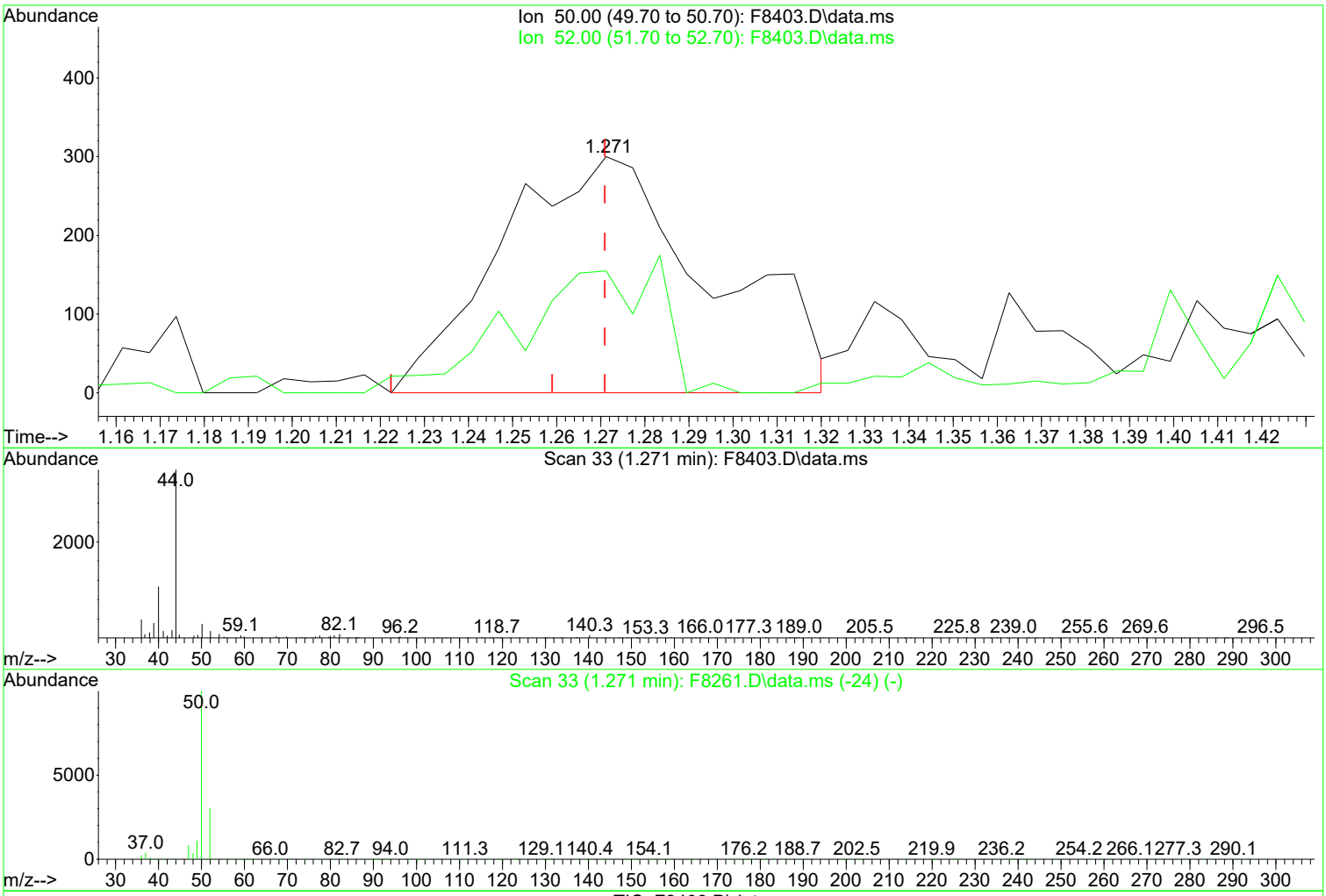
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown	1.534	5.5	ug/L	129617	1	5.356	1187910	50.0

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8403.D
Acq On : 25 Feb 2024 04:16 pm
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 26 08:56:06 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



TIC: F8403.D\data.ms

(4) Chloromethane (P)

1.271min (+ 0.000) 0.03 ug/L m

response 997

Ion	Exp%	Act%
50.00	100.00	100.00
52.00	30.30	51.67#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

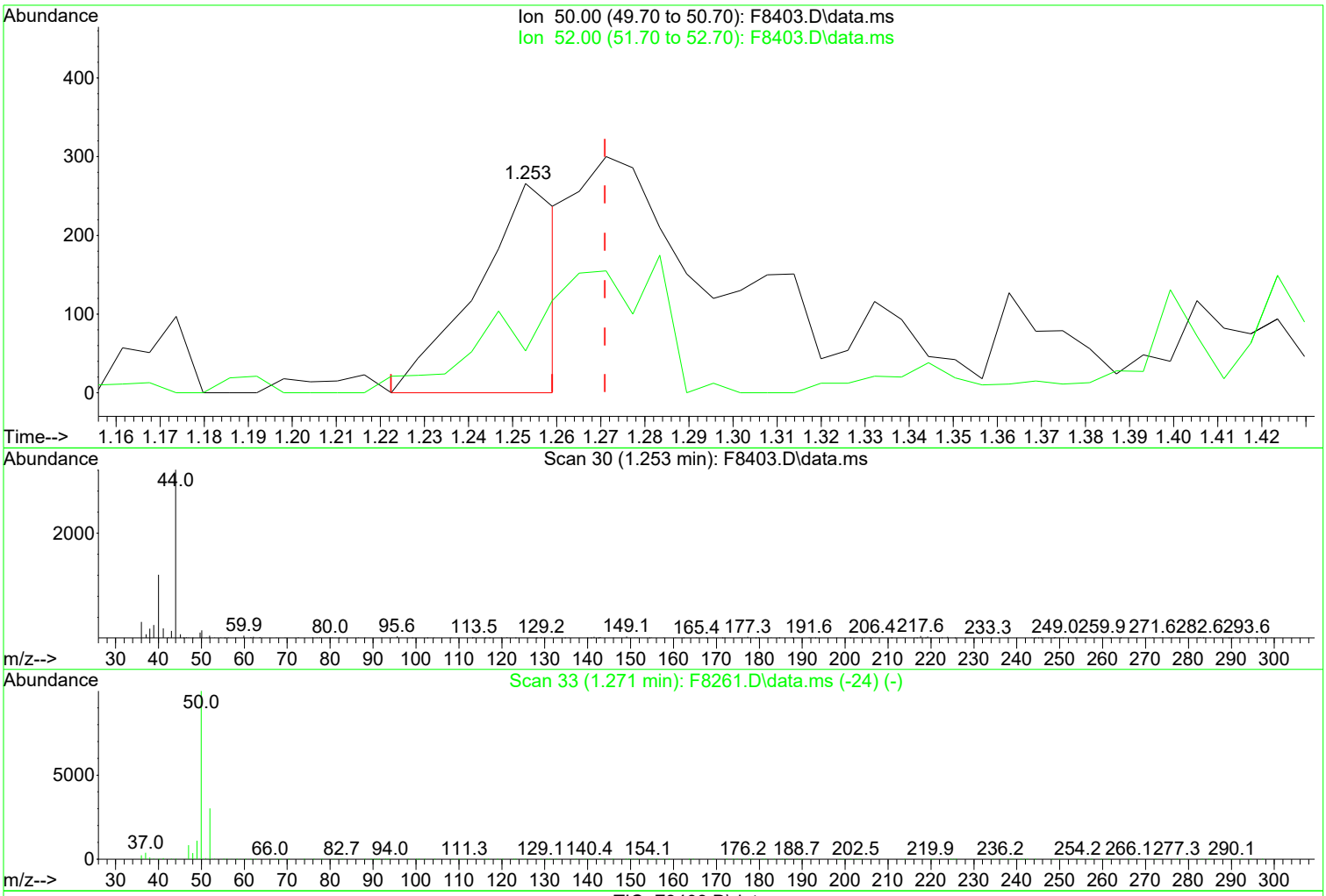
Poor integration.

02/27/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8403.D
Acq On : 25 Feb 2024 04:16 pm
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 26 08:56:06 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



TIC: F8403.D\data.ms

(4) Chloromethane (P)

1.253min (-0.018) -1.00 ug/L

response 339

Ion	Exp%	Act%
50.00	100.00	100.00
52.00	30.30	19.92
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

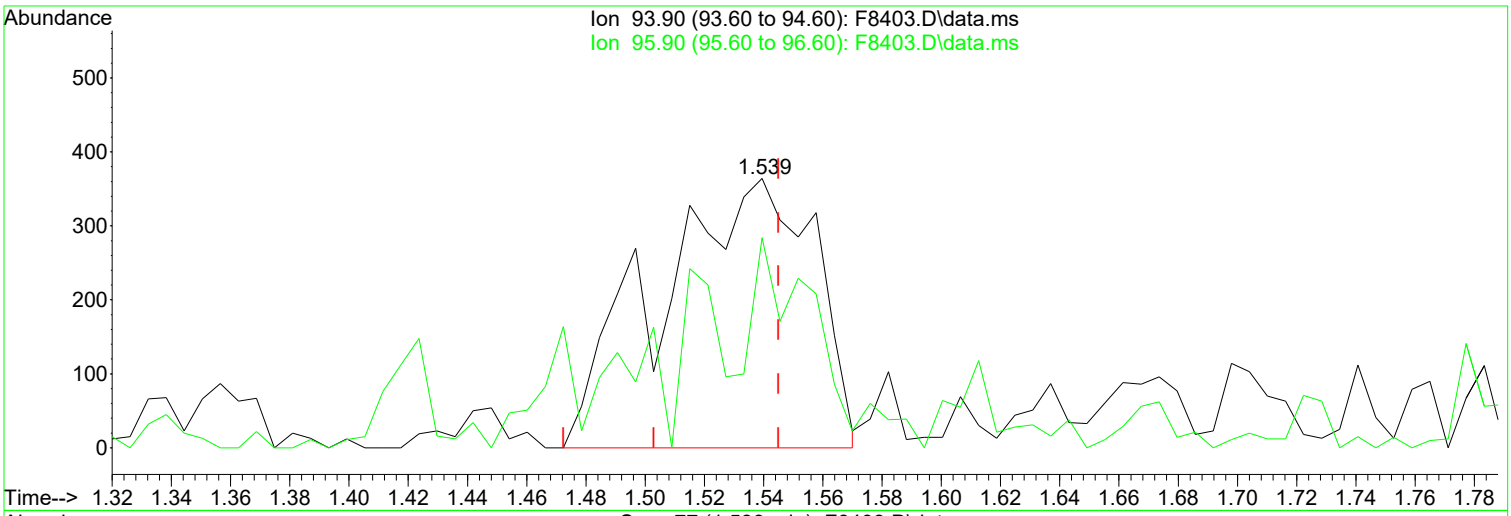
Before

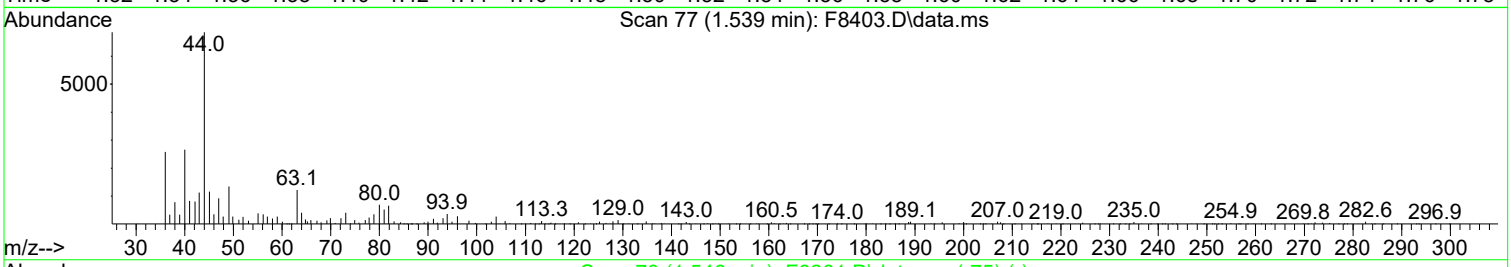
02/27/24

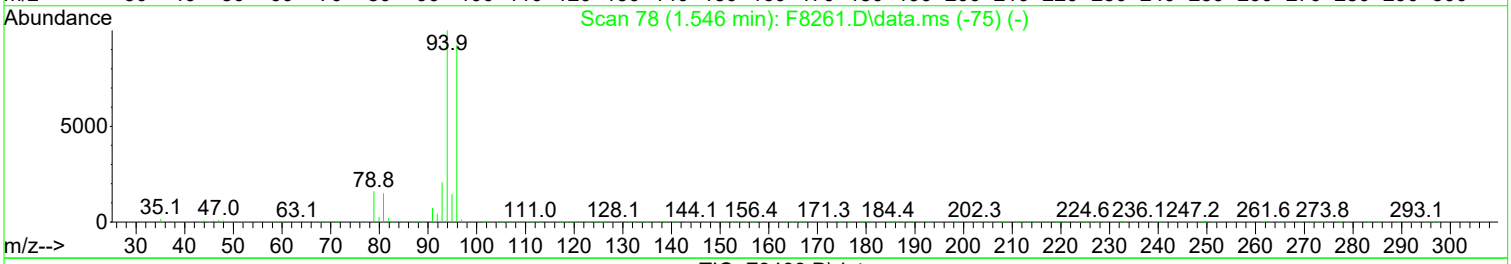
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8403.D
Acq On : 25 Feb 2024 04:16 pm
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 26 08:56:06 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8403.D\data.ms

(6) Bromomethane (P)

1.539min (-0.006) 0.42 ug/L m

response 1340

Ion	Exp%	Act%
93.90	100.00	100.00
95.90	92.30	78.02
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

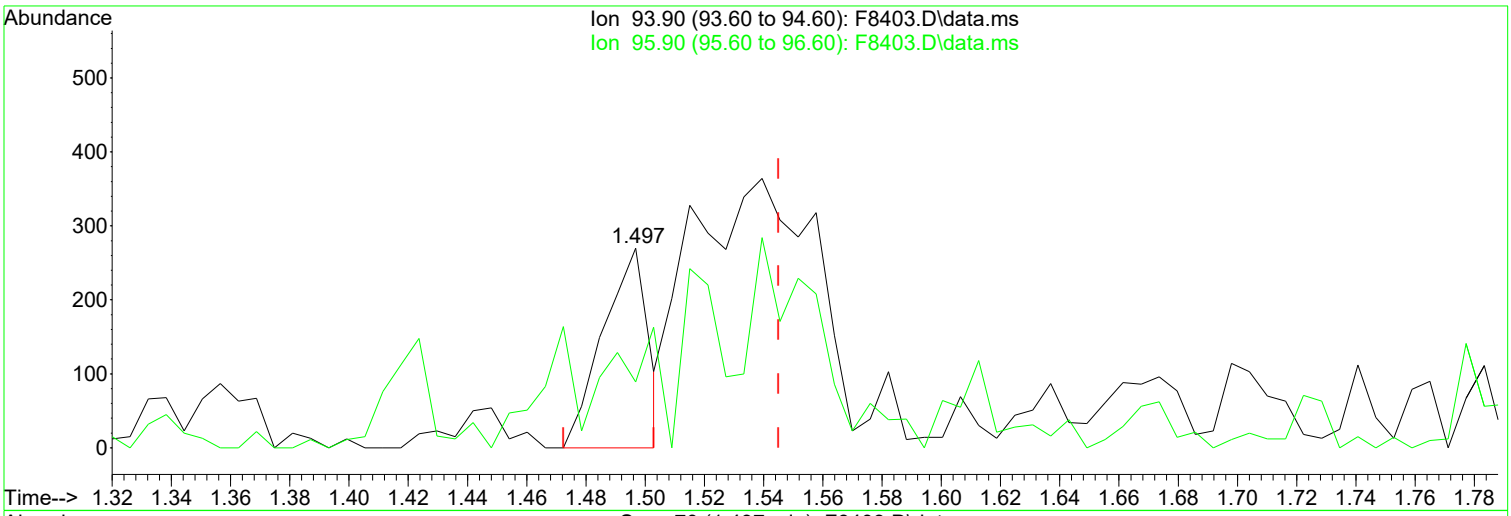
Poor integration.

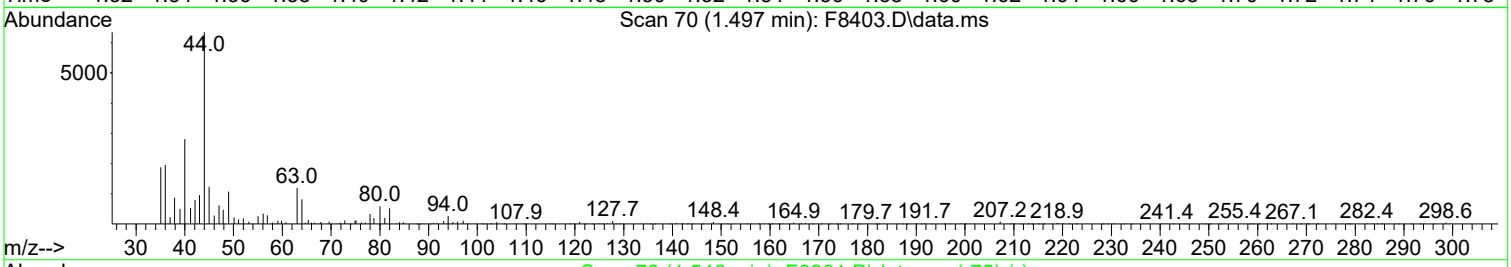
02/27/24

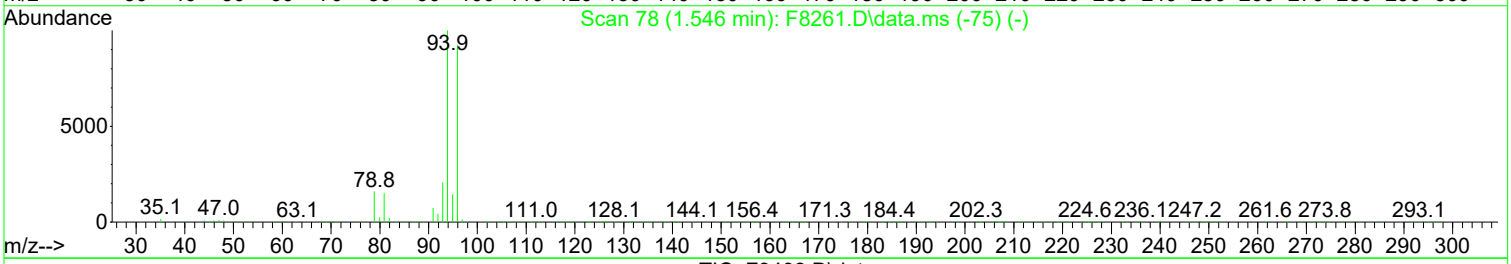
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8403.D
Acq On : 25 Feb 2024 04:16 pm
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 26 08:56:06 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8403.D\data.ms

(6) Bromomethane (P)

1.497min (-0.048) 0.25 ug/L

response 288

Ion	Exp%	Act%
93.90	100.00	100.00
95.90	92.30	32.96#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

02/27/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8403.D
Acq On : 25 Feb 2024 04:16 pm
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 26 08:56:06 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

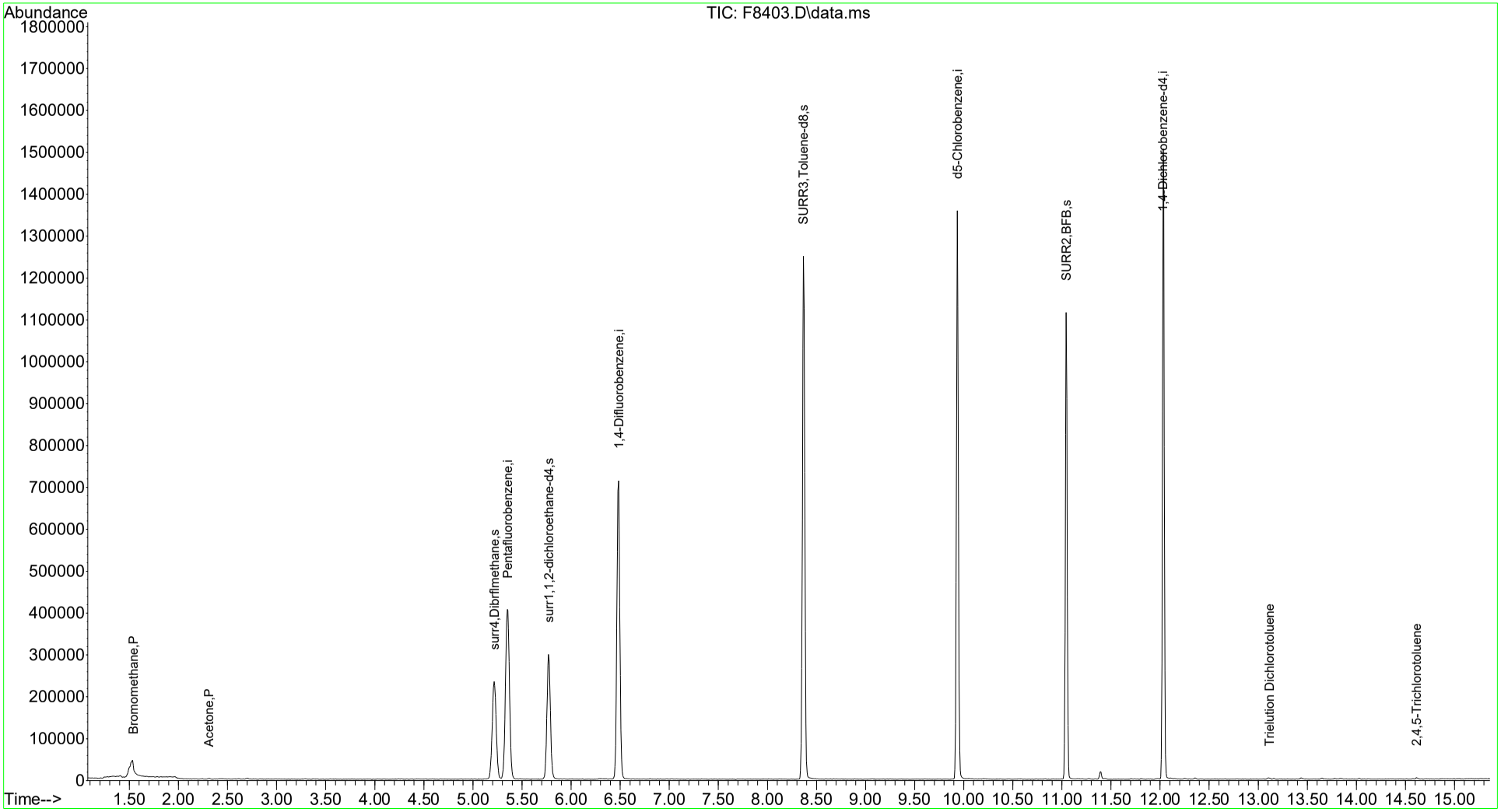
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.356	168	398438	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.484	114	624348	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.934	117	585029	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	12.031	152	296110	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.216	113	194206	48.52	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 97.04%			
48) surr1,1,2-dichloroetha...	5.770	65	262759	50.02	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.04%			
65) SURR3,Toluene-d8	8.367	98	773354	47.51	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 95.02%			
70) SURR2,BFB	11.044	95	271663	43.93	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 87.86%			
Target Compounds						Qvalue
6) Bromomethane	1.539	94	1340m	0.419	ug/L	
16) Acetone	2.308	43	1606	0.680	ug/L	76
23) Methylene Chloride	2.698	84	704	Below Cal	#	74
112) Trielution Dichlorotol...	13.110	125	1405	0.215	ug/L	99
119) 2,4,5-Trichlorotoluene	14.610	159	851	0.233	ug/L #	82

(#) = qualifier out of range (m) = manual integration (+) = signals summed

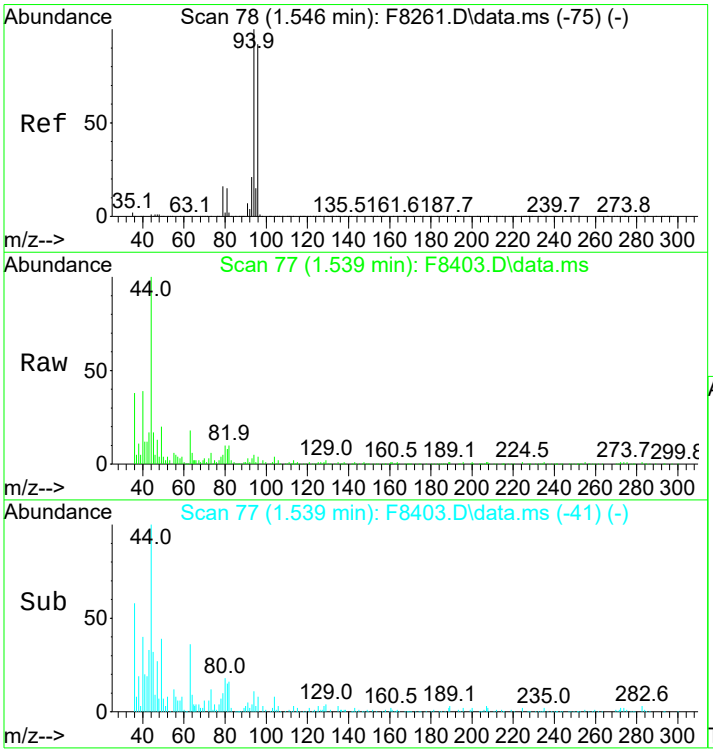
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8403.D
Acq On : 25 Feb 2024 04:16 pm
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 26 08:56:06 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



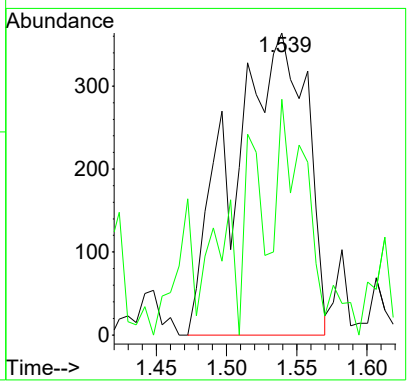
1st FJ 02/27/24
2nd AM 02/28/24

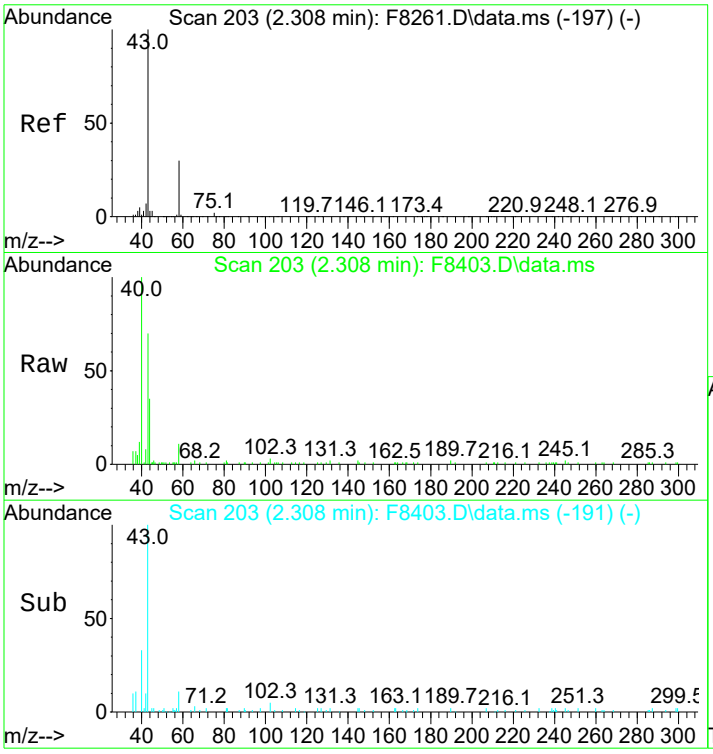


#6
Bromomethane
Concen: 0.42 ug/L m
RT: 1.539 min Scan# 77
Delta R.T. -0.006 min
Lab File: F8403.D
Acq: 25 Feb 2024 04:16 pm

Tgt Ion: 94 Resp: 1340

Ion	Ratio	Lower	Upper
94	100		
96	78.0	72.3	112.3

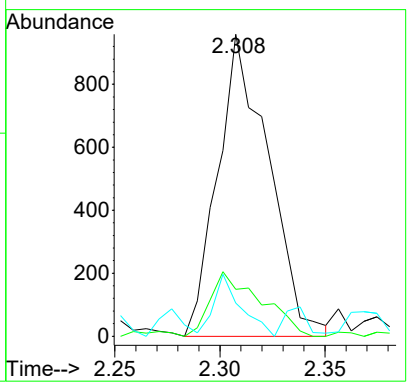


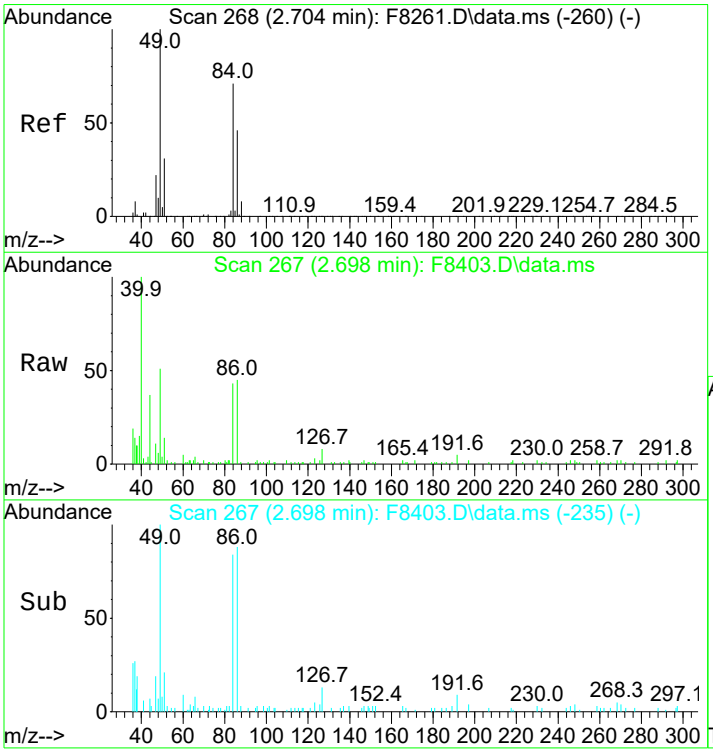


#16
Acetone
Concen: 0.68 ug/L
RT: 2.308 min Scan# 203
Delta R.T. -0.000 min
Lab File: F8403.D
Acq: 25 Feb 2024 04:16 pm

Tgt Ion: 43 Resp: 1606

Ion	Ratio	Lower	Upper
43	100		
58	15.5	10.0	50.0
42	10.9	0.0	27.2

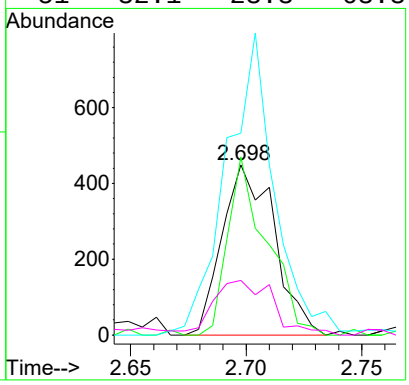


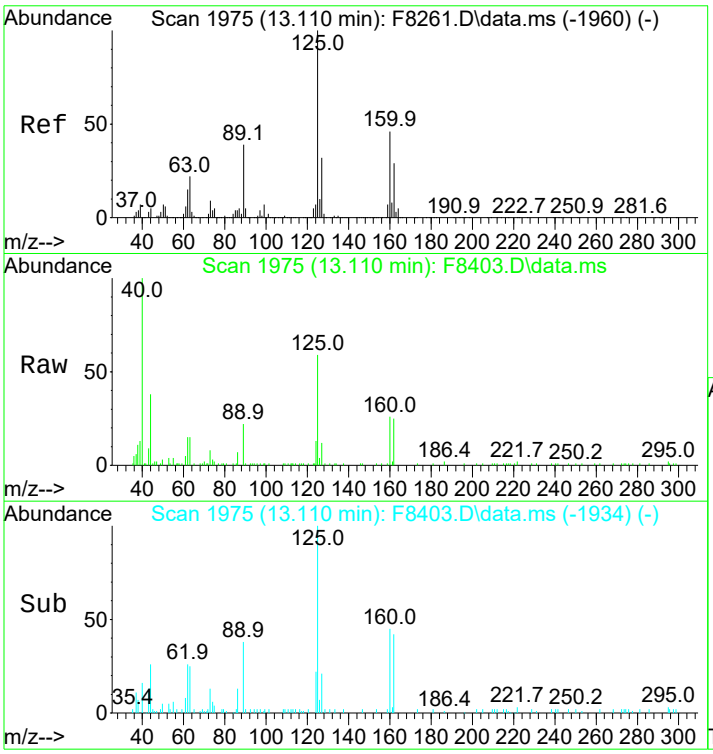


#23
Methylene Chloride
Concen: Below Cal
RT: 2.698 min Scan# 267
Delta R.T. -0.005 min
Lab File: F8403.D
Acq: 25 Feb 2024 04:16 pm

Tgt Ion: 84 Resp: 704

Ion	Ratio	Lower	Upper
84	100		
86	104.7	45.1	85.1#
49	118.7	120.9	160.9#
51	32.1	23.3	63.3

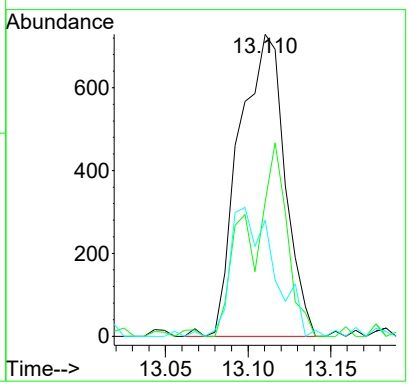


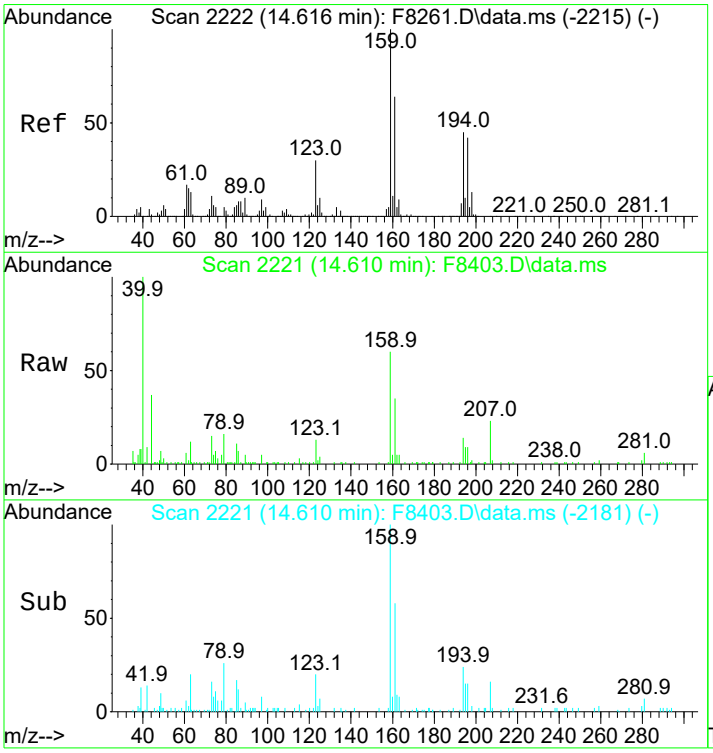


#112
Trielution Dichlorotoluene
Concen: 0.22 ug/L
RT: 13.110 min Scan# 1975
Delta R.T. -0.000 min
Lab File: F8403.D
Acq: 25 Feb 2024 04:16 pm

Tgt Ion:125 Resp: 1405

Ion	Ratio	Lower	Upper
125	100		
160	44.6	25.7	65.7
89	38.4	18.7	58.7

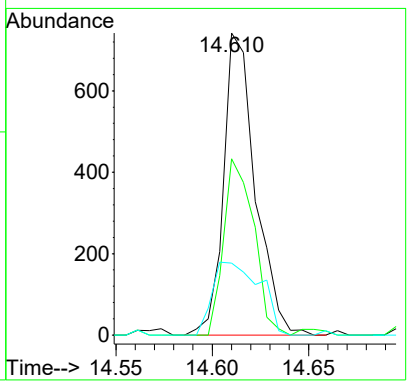




#119
2,4,5-Trichlorotoluene
Concen: 0.23 ug/L
RT: 14.610 min Scan# 2221
Delta R.T. -0.006 min
Lab File: F8403.D
Acq: 25 Feb 2024 04:16 pm

Tgt Ion:159 Resp: 851

Ion	Ratio	Lower	Upper
159	100		
161	58.4	43.5	83.5
194	23.9	25.4	65.4#



LSC Area Percent Report

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8403.D
Acq On : 25 Feb 2024 04:16 pm
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Title : MS#14 - 8260 WATERS 5mL Purge

Signal : TIC: F8403.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.533	64	76	91	rBV5	39726	132657	6.36%	1.154%
2	5.216	667	680	692	rBV2	232581	662685	31.79%	5.763%
3	5.350	692	702	716	rVB2	405270	1150822	55.20%	10.008%
4	5.770	761	771	789	rBV2	298020	729119	34.98%	6.341%
5	6.484	876	888	900	rBV	712745	1493209	71.63%	12.986%
6	8.367	1190	1197	1216	rBV	1248260	2084685	100.00%	18.129%
7	9.934	1448	1454	1467	rBV	1356790	1864006	89.41%	16.210%
8	11.044	1630	1636	1647	rBV	1113602	1426815	68.44%	12.408%
9	11.391	1689	1693	1698	rBV2	17863	24261	1.16%	0.211%
10	12.031	1793	1798	1809	rBV	1504564	1930708	92.61%	16.790%

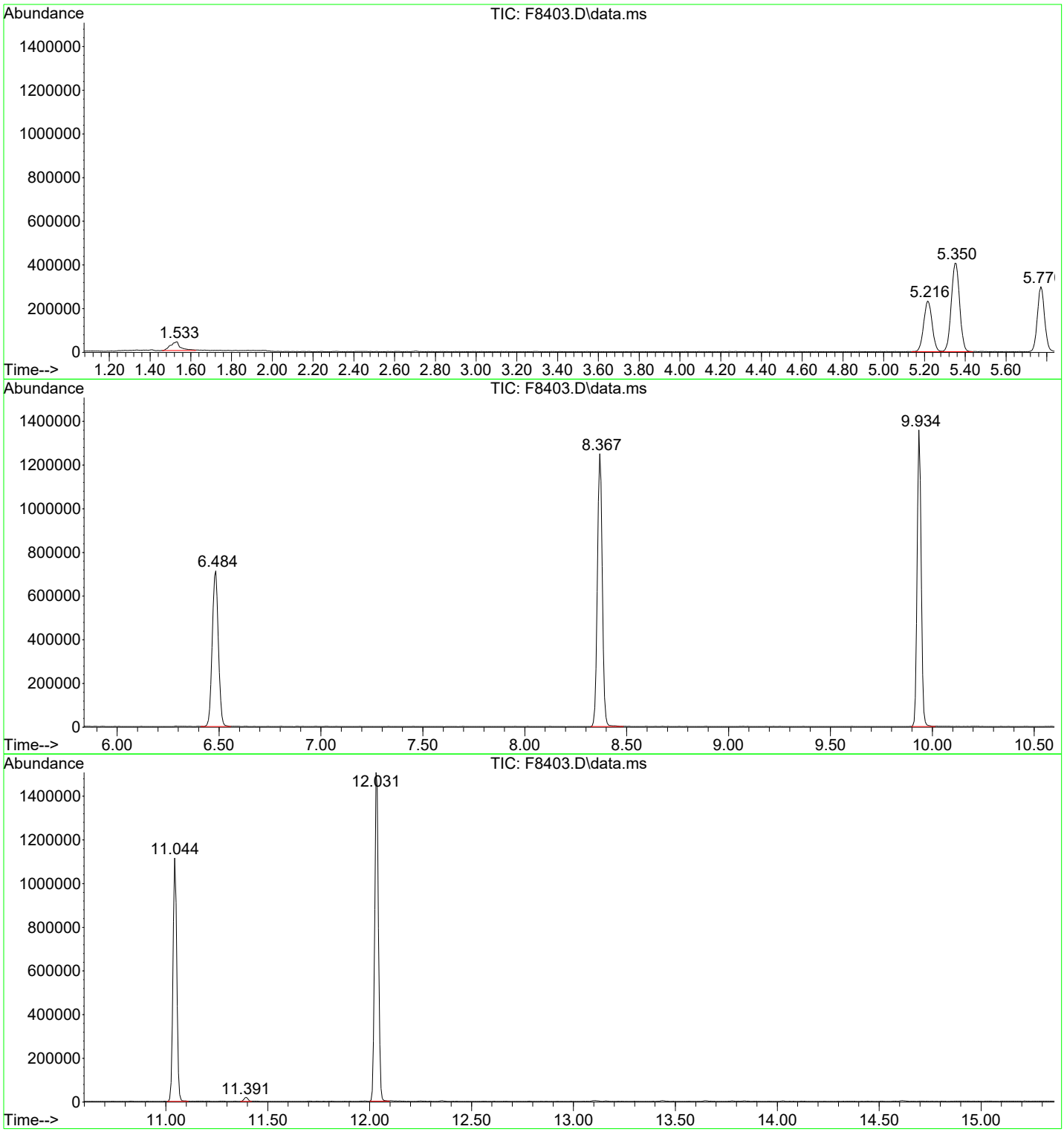
Sum of corrected areas: 11498967

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8403.D
Acq On : 25 Feb 2024 04:16 pm
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8403.D
Acq On : 25 Feb 2024 04:16 pm
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8403.D
Acq On : 25 Feb 2024 04:16 pm
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge

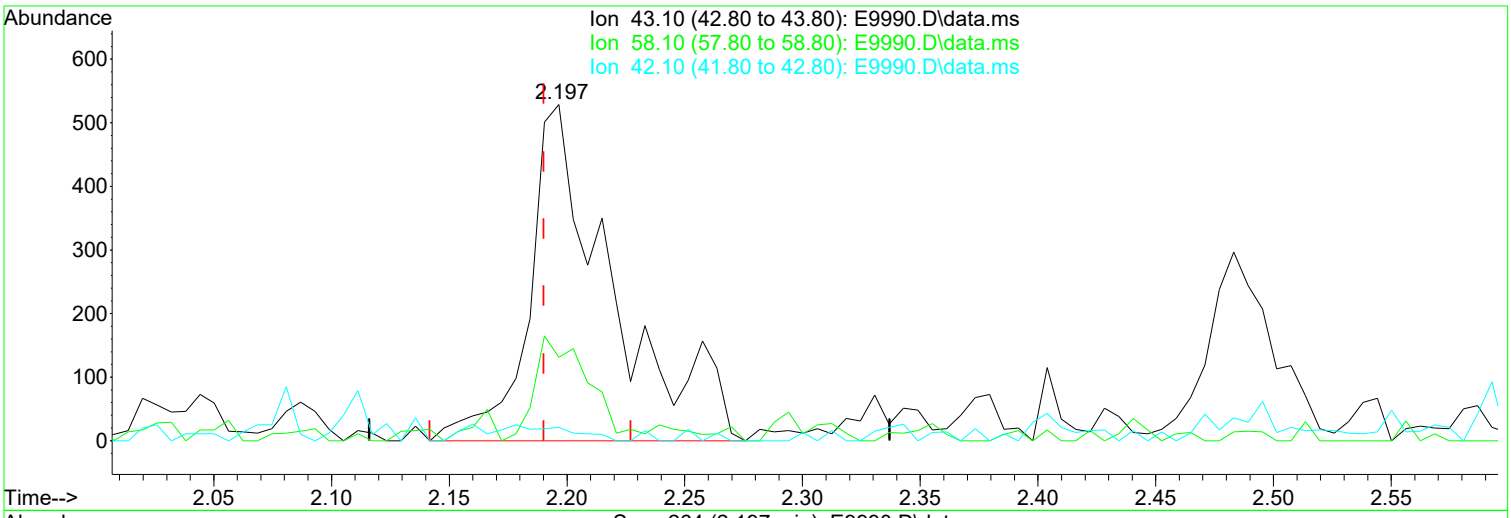
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

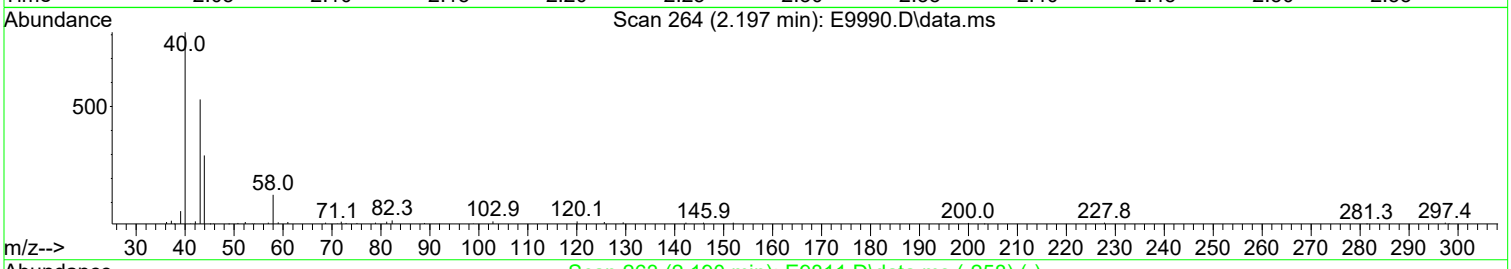
					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

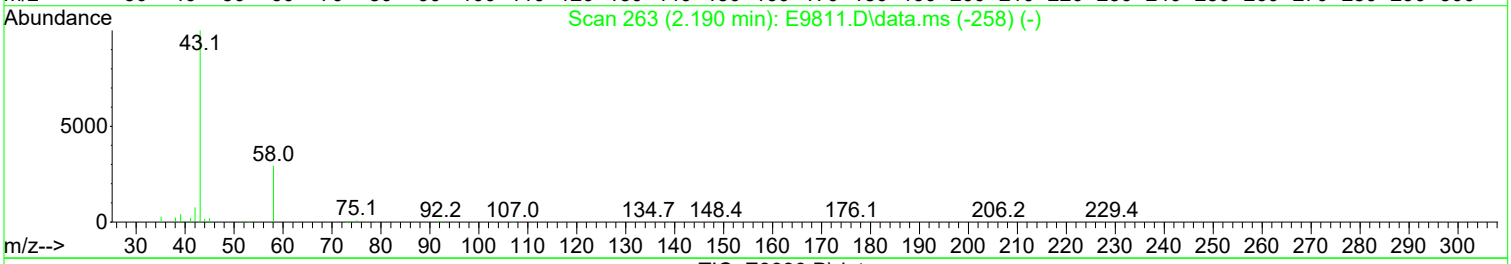
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : E9990.D
Acq On : 26 Feb 2024 12:45 pm
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 26 13:14:48 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration







TIC: E9990.D\data.ms

(16) Acetone (P)

2.197min (+ 0.006) 0.60 ug/L m

response 1289

Ion	Exp%	Act%
43.10	100.00	100.00
58.10	29.30	24.76
42.10	7.80	3.97
0.00	0.00	0.00

Manual Integration:

After

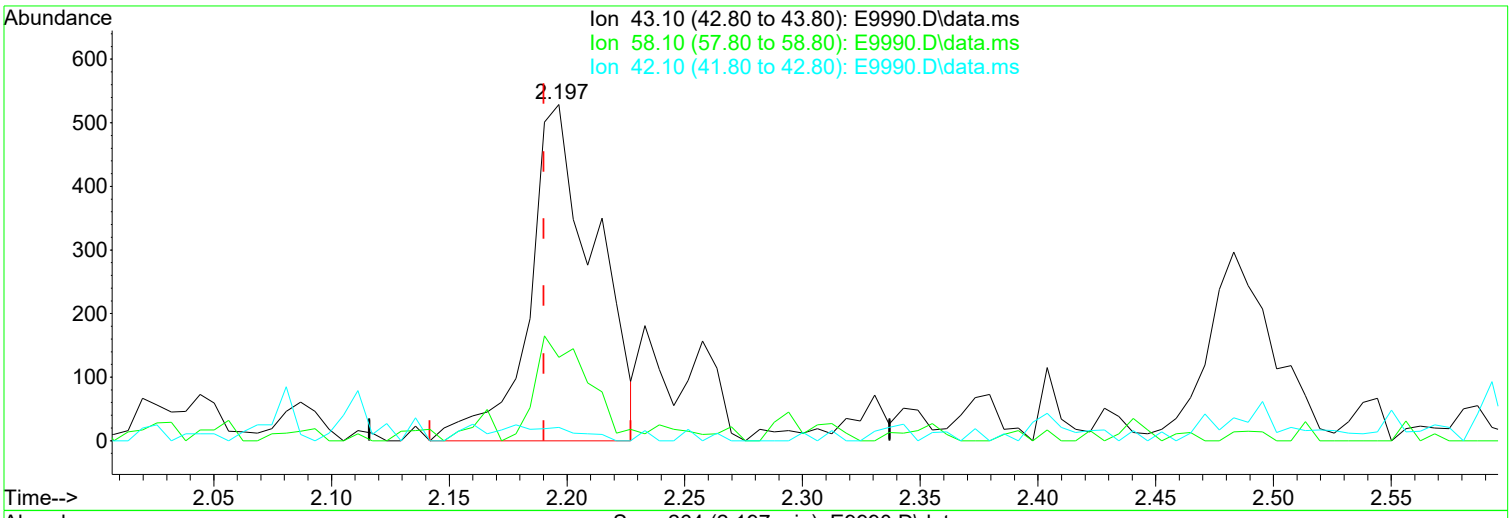
Poor integration.

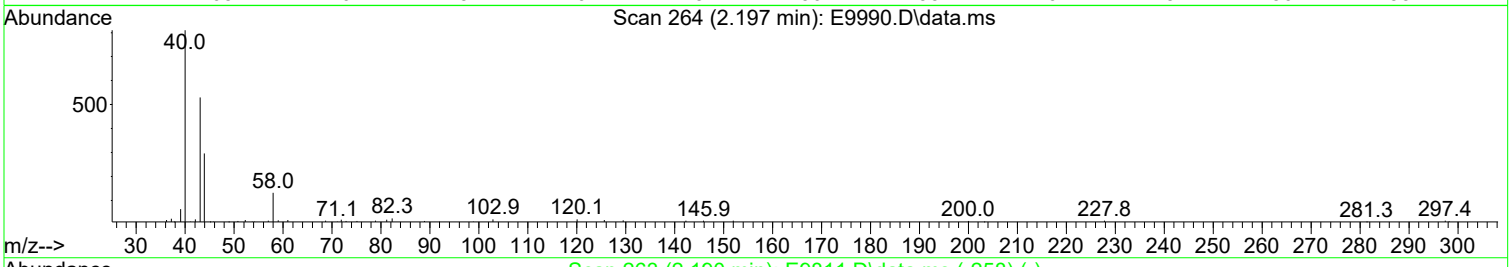
02/27/24

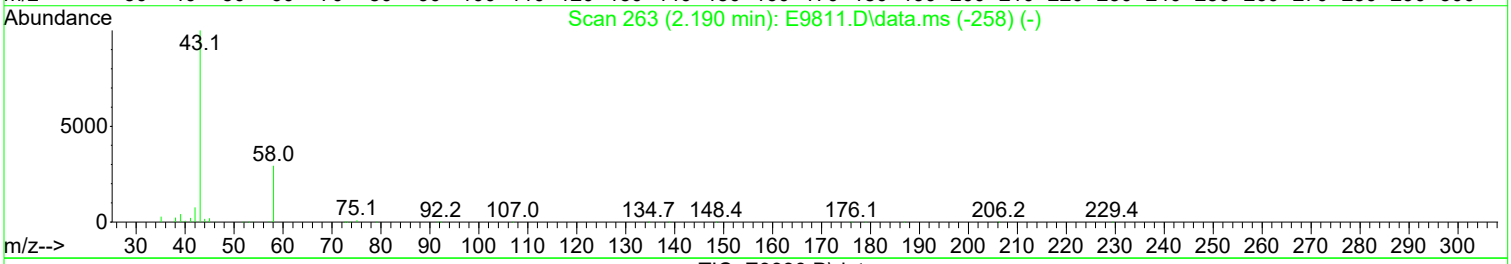
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : E9990.D
Acq On : 26 Feb 2024 12:45 pm
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 26 13:14:48 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration







TIC: E9990.D\data.ms

(16) Acetone (P)

2.197min (+ 0.006) 0.48 ug/L

response 1023

Ion	Exp%	Act%
43.10	100.00	100.00
58.10	29.30	24.76
42.10	7.80	3.97
0.00	0.00	0.00

Manual Integration:

Before

02/27/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : E9990.D
Acq On : 26 Feb 2024 12:45 pm
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 26 13:14:48 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration

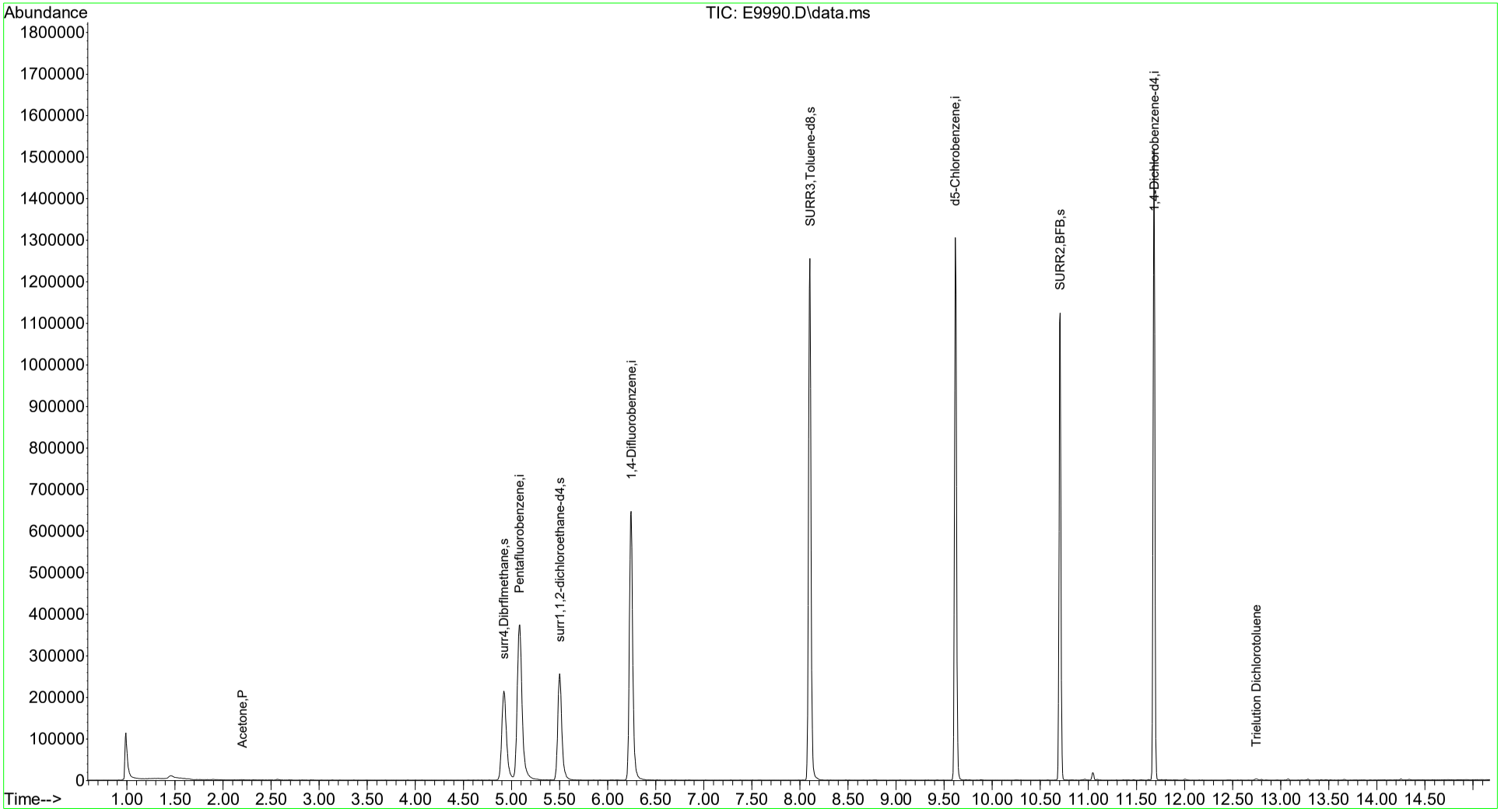
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.086	168	455517	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.245	114	686194	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.616	117	605638	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	11.683	152	292521	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.922	113	223196	50.18	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 100.36%			
48) surr1,1,2-dichloroetha...	5.501	65	279115	52.33	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 104.66%			
65) SURR3,Toluene-d8	8.104	98	805303	50.26	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 100.52%			
70) SURR2,BFB	10.701	95	298614	48.71	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 97.42%			
Target Compounds						Qvalue
16) Acetone	2.197	43	1289m	0.605	ug/L	
23) Methylene Chloride	2.568	84	878m	Below Cal		
112) Trielution Dichlorotol...	12.743	125	1669	0.213	ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

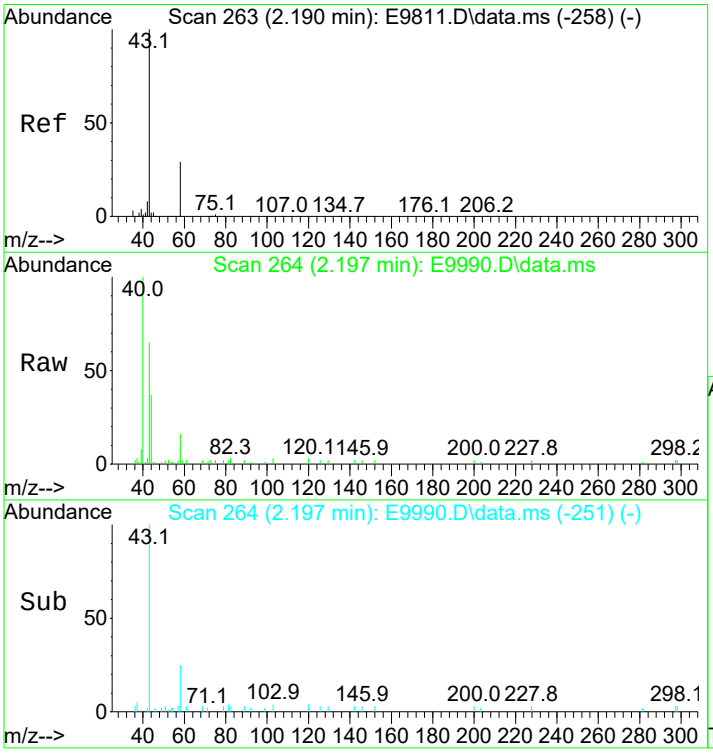
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : E9990.D
Acq On : 26 Feb 2024 12:45 pm
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 26 13:14:48 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration



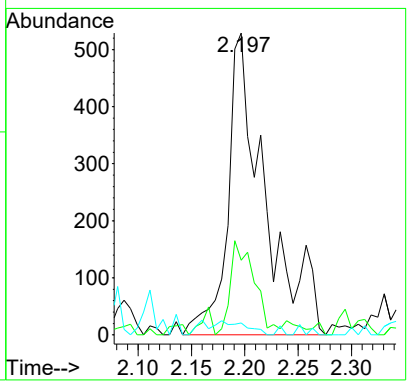
1st FJ 02/27/24
2nd AM 02/28/24

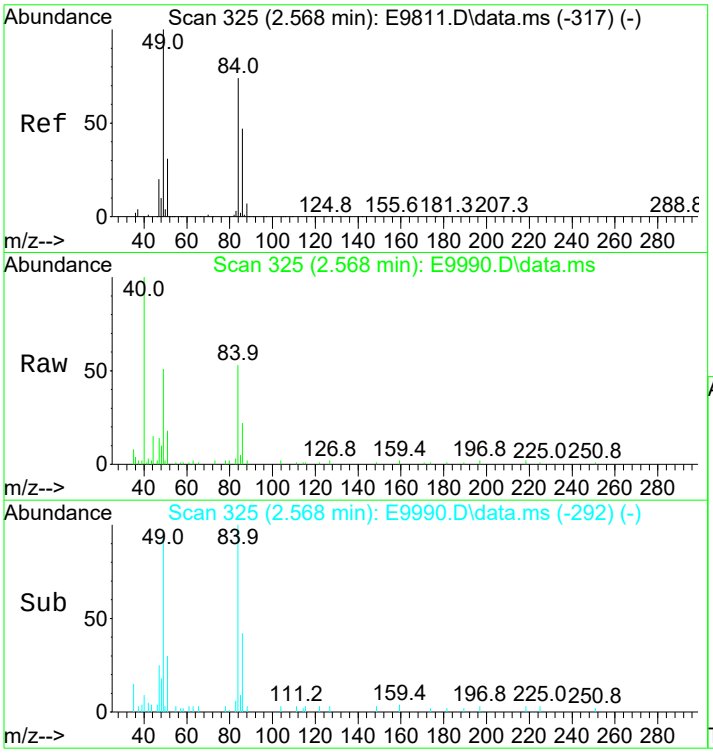


#16
Acetone
Concen: 0.60 ug/L m
RT: 2.197 min Scan# 264
Delta R.T. 0.006 min
Lab File: E9990.D
Acq: 26 Feb 2024 12:45 pm

Tgt Ion: 43 Resp: 1289

Ion	Ratio	Lower	Upper
43	100		
58	24.8	9.3	49.3
42	4.0	0.0	27.8

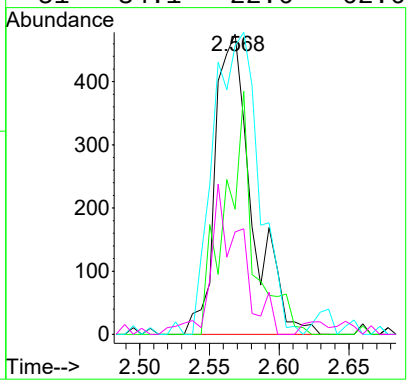


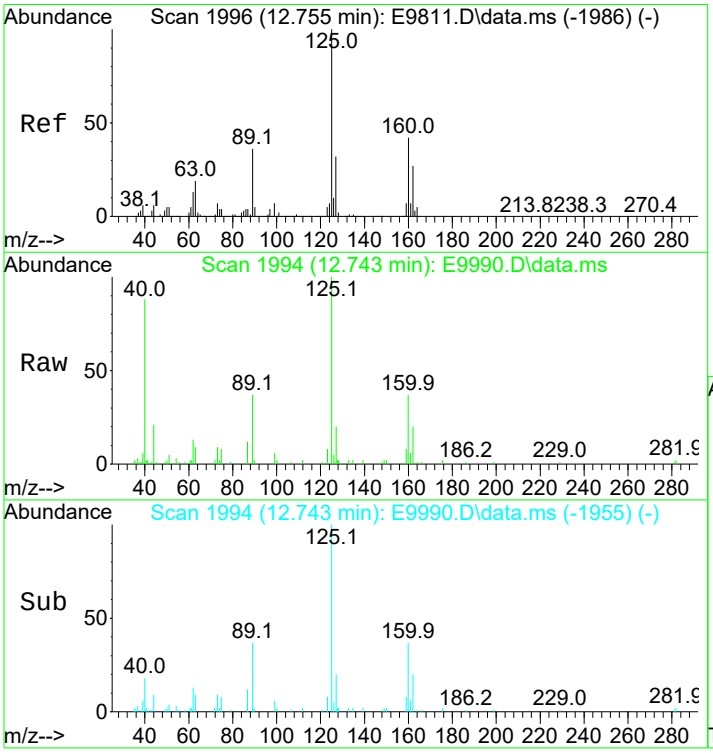


#23
Methylene Chloride
Concen: Below Cal m
RT: 2.568 min Scan# 325
Delta R.T. 0.000 min
Lab File: E9990.D
Acq: 26 Feb 2024 12:45 pm

Tgt Ion: 84 Resp: 878

Ion	Ratio	Lower	Upper
84	100		
86	41.7	43.3	83.3#
49	96.2	115.4	155.4#
51	34.1	22.6	62.6

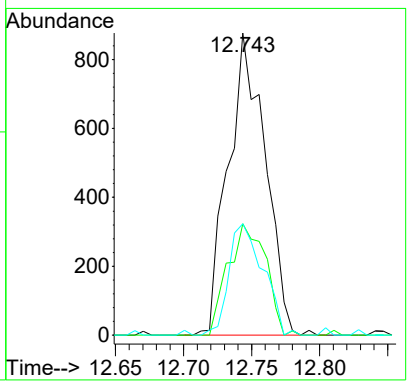




#112
Trielution Dichlorotoluene
Concen: 0.21 ug/L
RT: 12.743 min Scan# 1994
Delta R.T. -0.012 min
Lab File: E9990.D
Acq: 26 Feb 2024 12:45 pm

Tgt Ion:125 Resp: 1669

Ion	Ratio	Lower	Upper
125	100		
160	36.8	22.2	62.2
89	39.2	16.1	56.1



LSC Area Percent Report

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : E9990.D
Acq On : 26 Feb 2024 12:45 pm
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 250 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0.1 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Title : MS#17 - 8260 WATERS 5mL Purge

Signal : TIC: E9990.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	0.989	62	66	84	rBV	111783	214427	9.91%	1.786%
2	1.453	136	142	157	rBV	6440	21898	1.01%	0.182%
3	4.922	697	711	726	rBV	214587	737154	34.06%	6.139%
4	5.086	726	738	771	rVB	372517	1321754	61.07%	11.008%
5	5.501	794	806	830	rBV	256054	760249	35.13%	6.332%
6	6.245	916	928	950	rBV	646746	1586689	73.31%	13.215%
7	8.104	1225	1233	1251	rBV	1255181	2164261	100.00%	18.025%
8	9.616	1475	1481	1493	rBV	1305193	1854624	85.69%	15.446%
9	10.707	1654	1660	1675	rVB	1123942	1474484	68.13%	12.280%
10	11.049	1710	1716	1721	rBV	18045	26313	1.22%	0.219%
11	11.683	1814	1820	1827	rBV	1519000	1845006	85.25%	15.366%

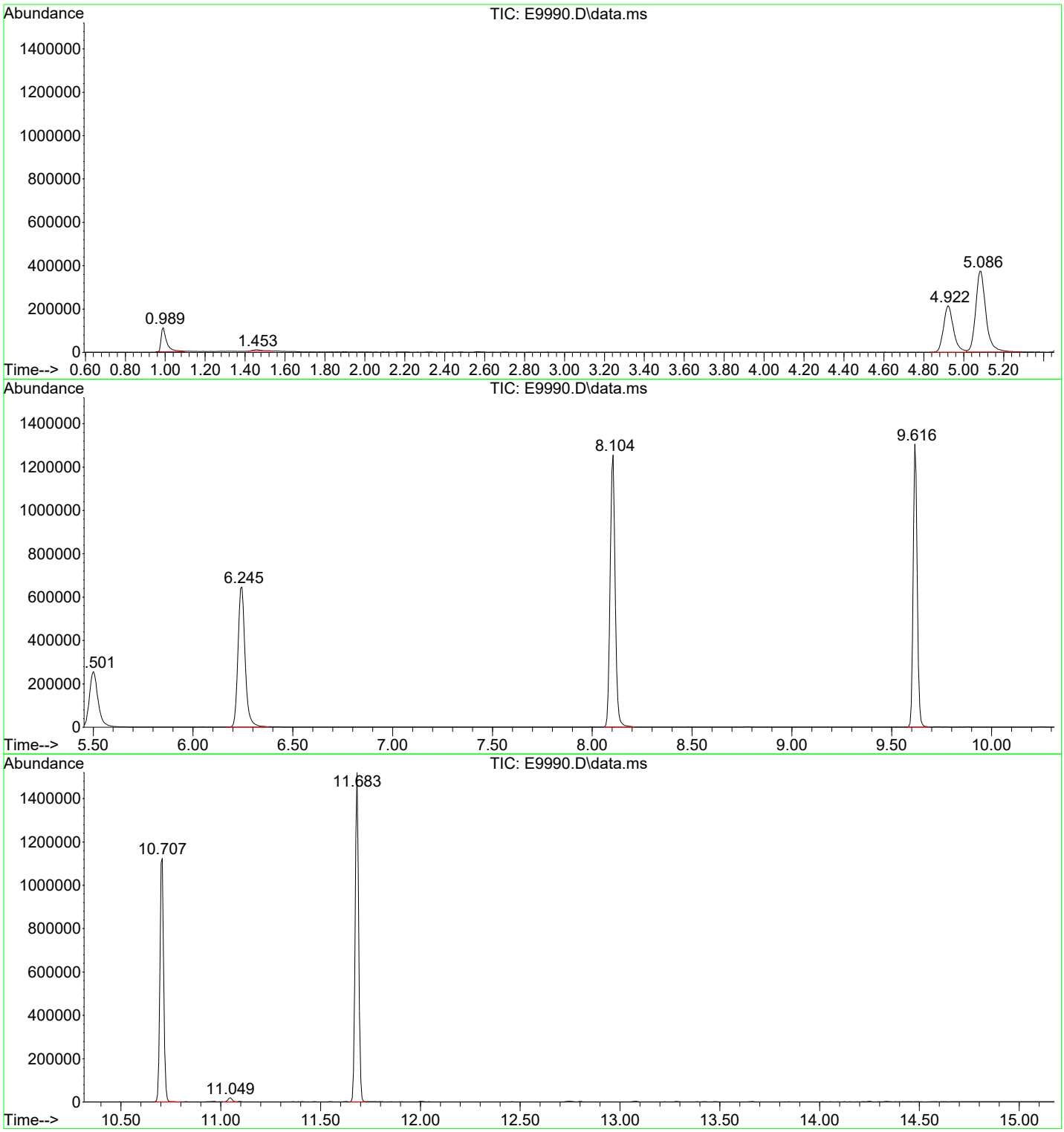
Sum of corrected areas: 12006859

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : E9990.D
Acq On : 26 Feb 2024 12:45 pm
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : E9990.D
Acq On : 26 Feb 2024 12:45 pm
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge

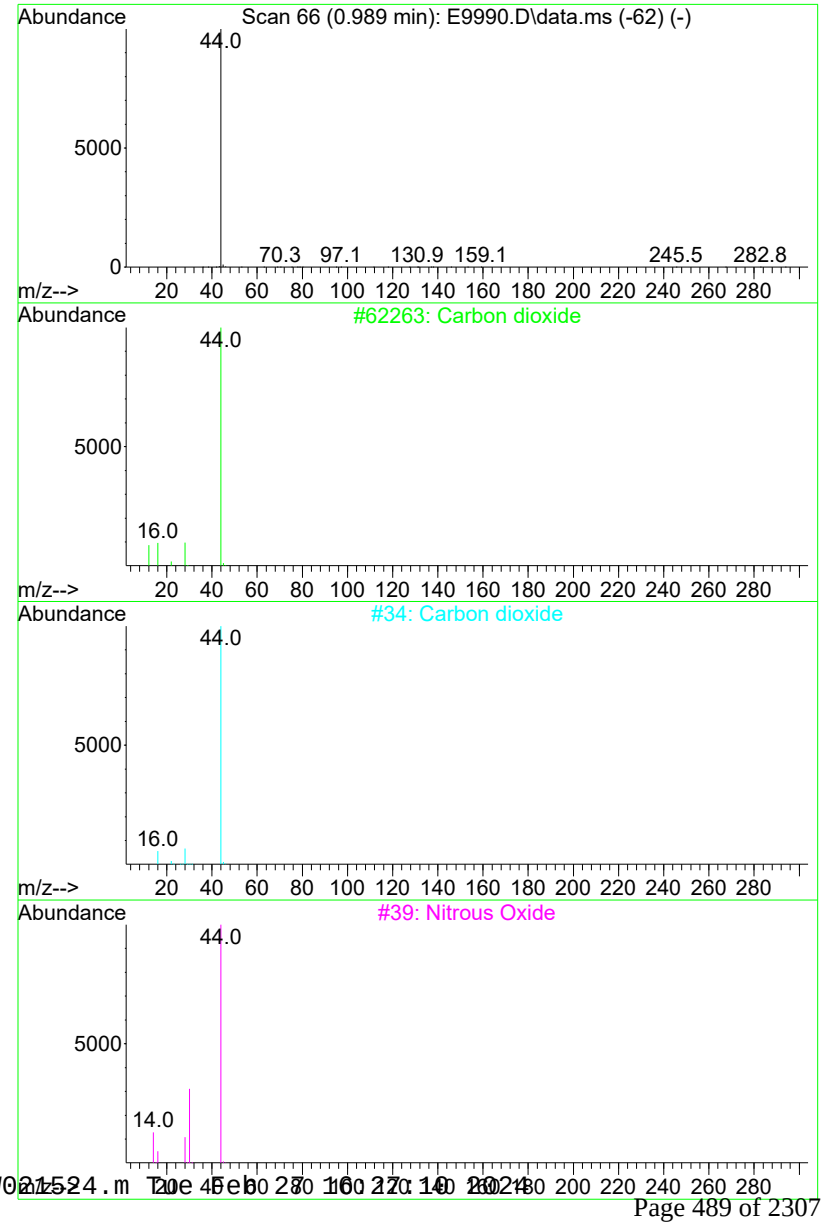
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

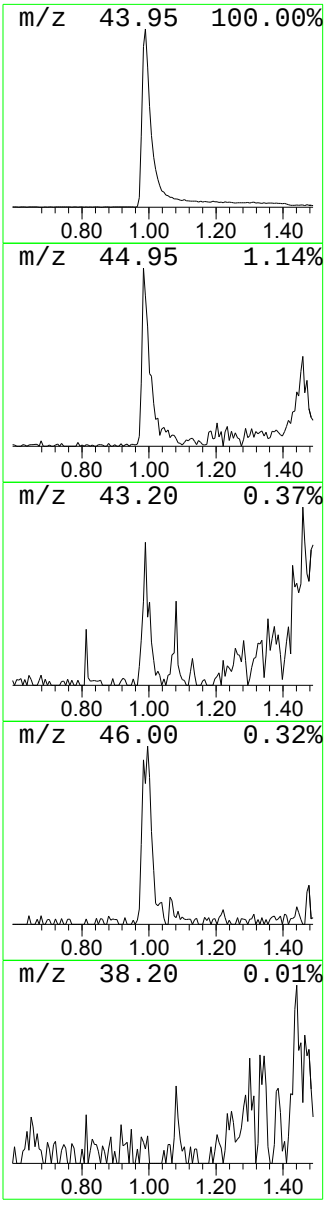
****

Peak Number 1 unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
0.989	8.11 ug/L	214427	Pentafluorobenzene	5.086

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide	44	CO2	000124-38-9	4
3	Nitrous Oxide	44	N2O	010024-97-2	3
4	Nitrous Oxide	44	N2O	010024-97-2	3
5	Nitrous Oxide	44	N2O	010024-97-2	3





Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : E9990.D
Acq On : 26 Feb 2024 12:45 pm
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge

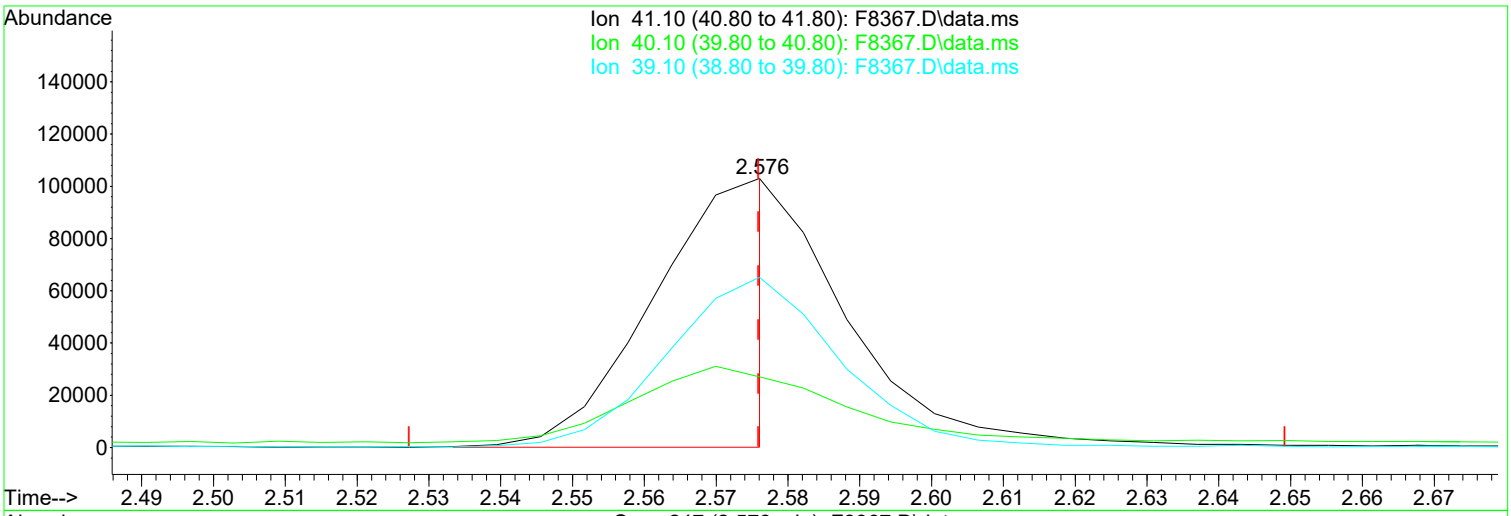
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

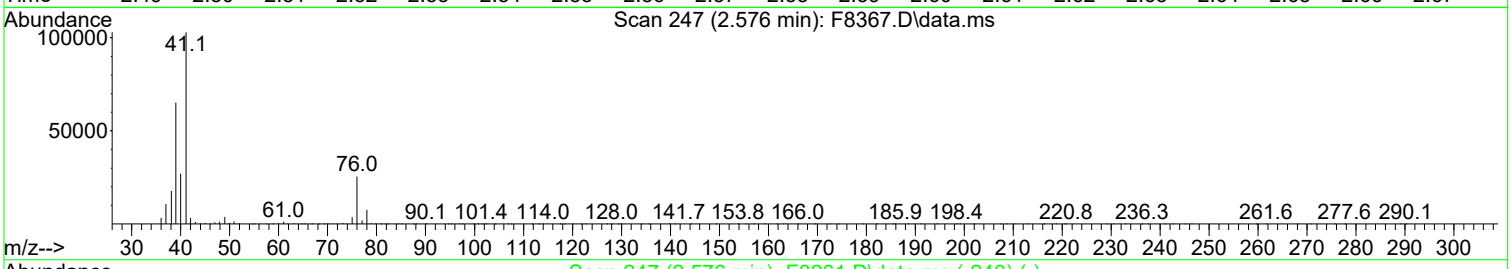
					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown	0.989	8.1	ug/L	214427	1	5.086	1321750	50.0

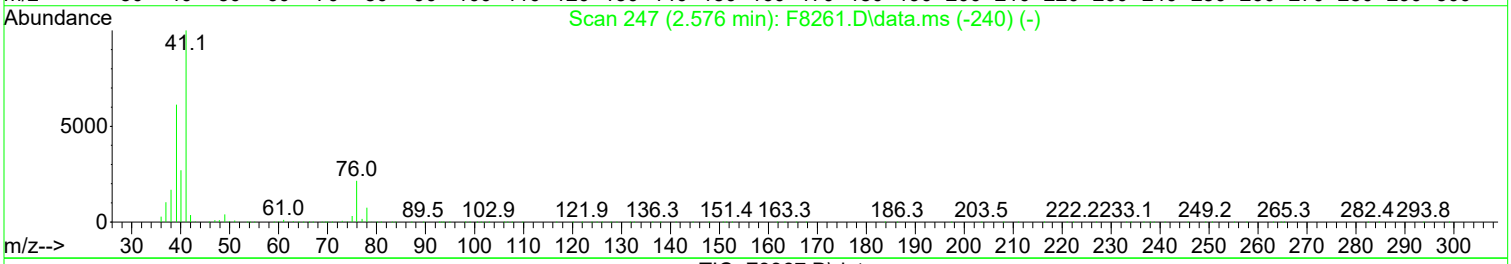
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8367.D
Acq On : 23 Feb 2024 11:47 am
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 23 12:03:19 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8367.D\data.ms

(20) Acetonitrile

2.576min (+ 0.000) 103.98 ug/L m

response 120566

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	27.60	26.25
39.10	61.30	63.34
0.00	0.00	0.00

Manual Integration:

After

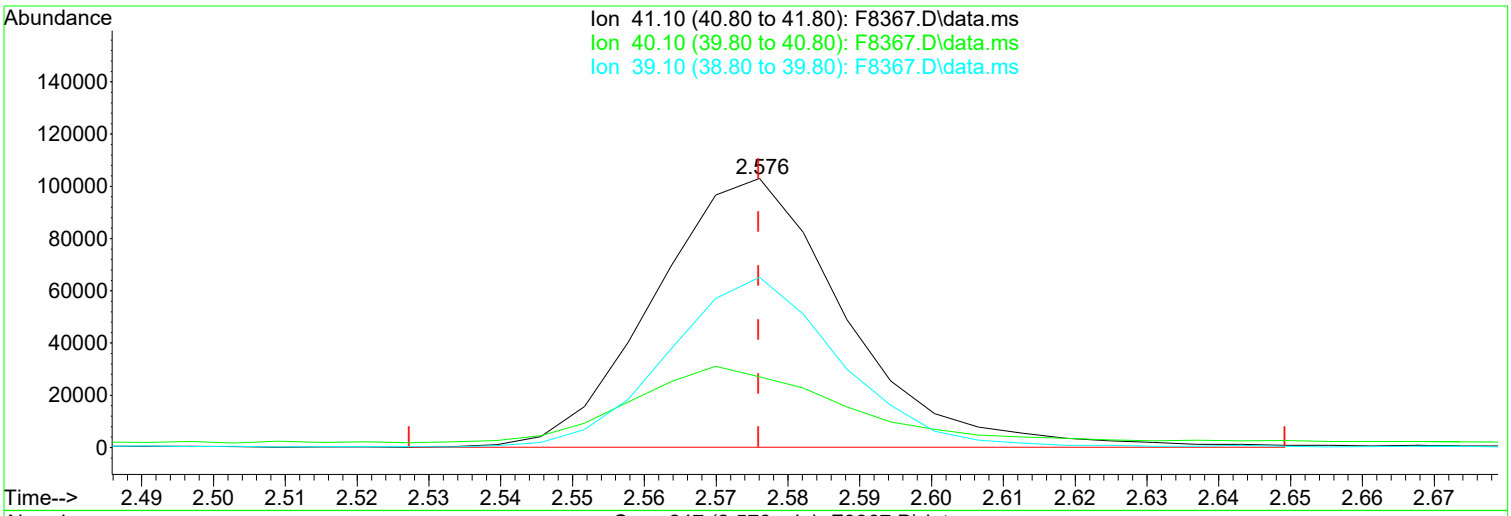
Poor integration.

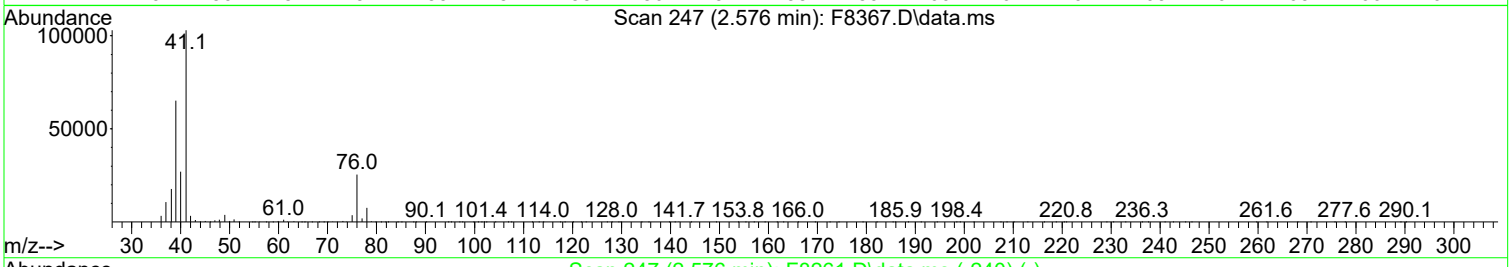
02/23/24

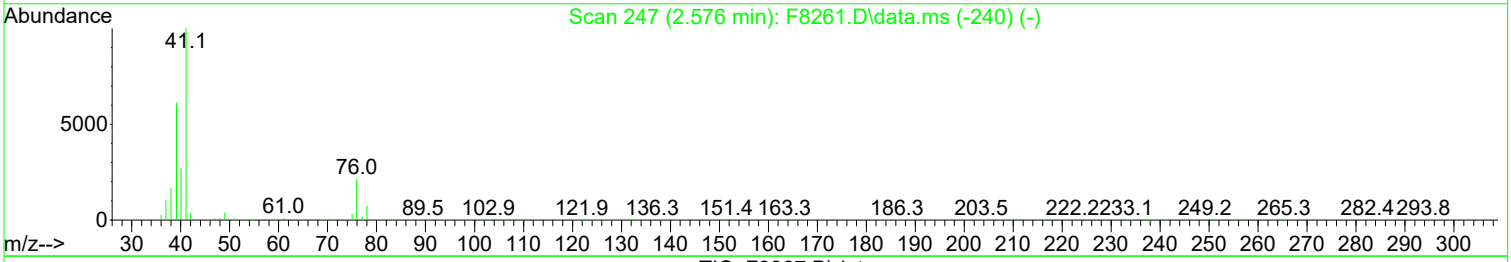
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8367.D
Acq On : 23 Feb 2024 11:47 am
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 23 12:03:19 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8367.D\data.ms

(20) Acetonitrile

2.576min (+ 0.000) 164.66 ug/L

response 190926

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	27.60	26.25
39.10	61.30	63.34
0.00	0.00	0.00

Manual Integration:

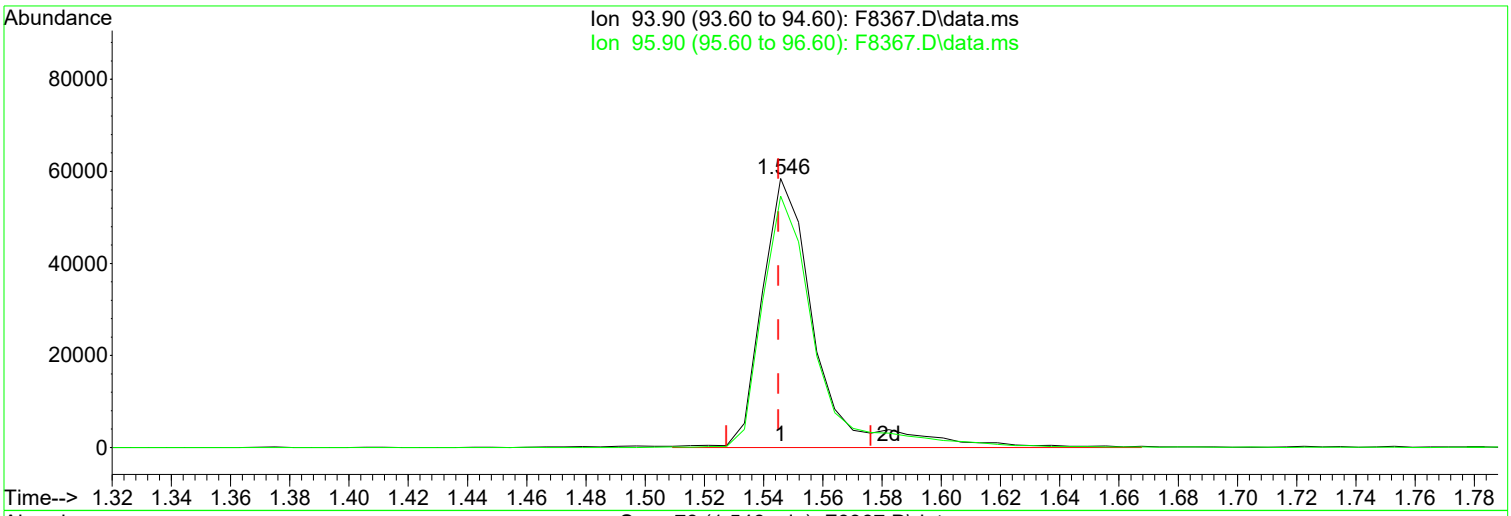
Before

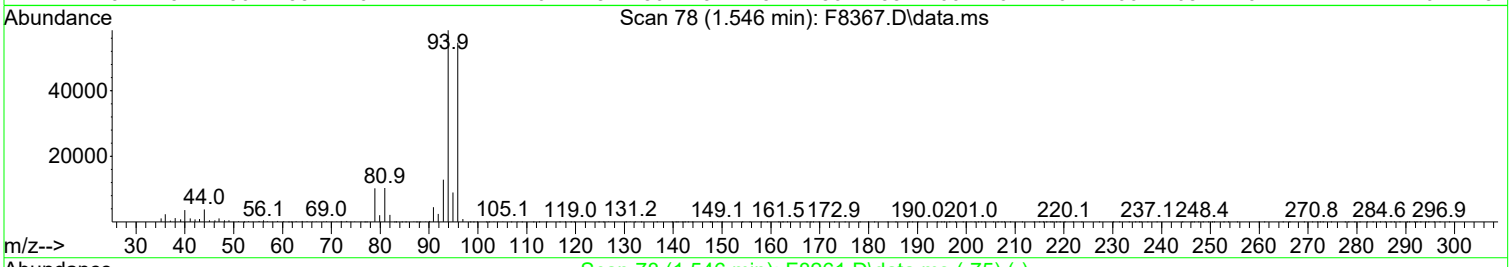
02/23/24

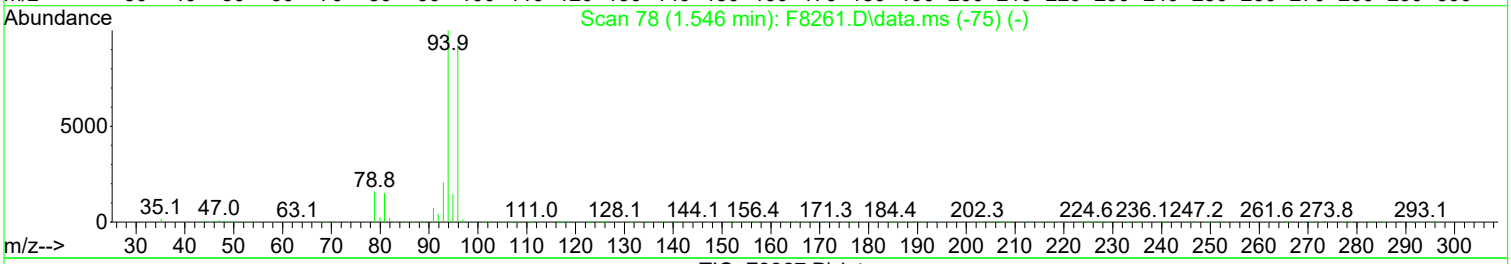
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8367.D
Acq On : 23 Feb 2024 11:47 am
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 23 12:03:19 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8367.D\data.ms

(6) Bromomethane (P)

1.546min (+ 0.001) 10.98 ug/L m

response 73713

Ion	Exp%	Act%
93.90	100.00	100.00
95.90	92.30	93.53
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

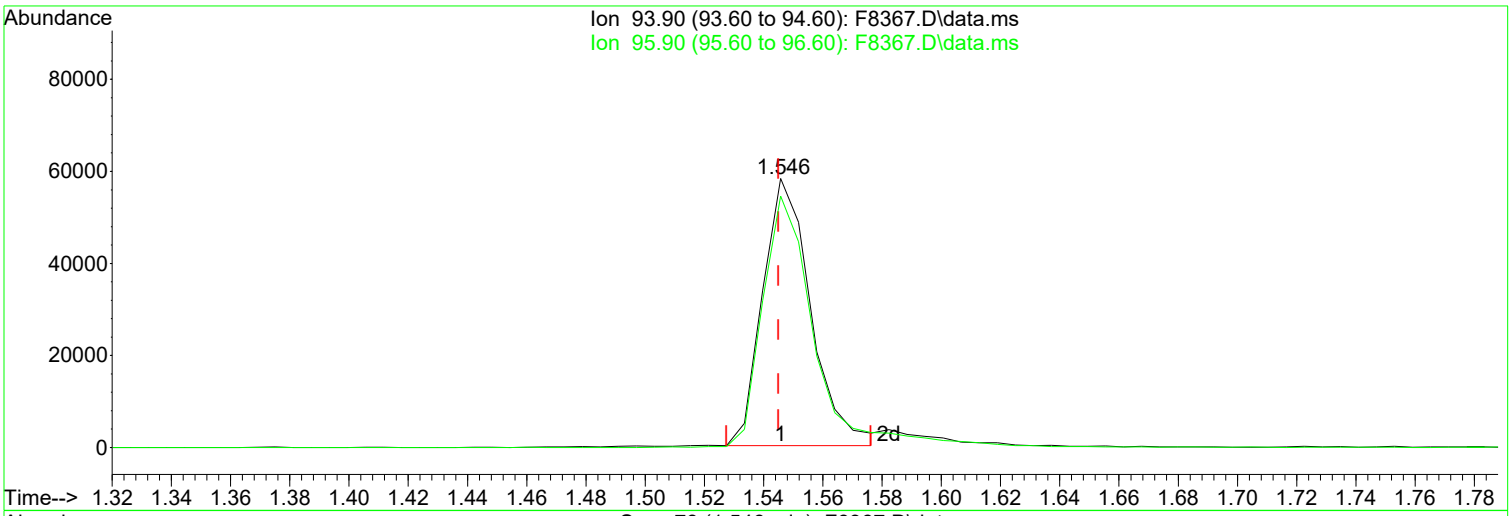
Poor integration.

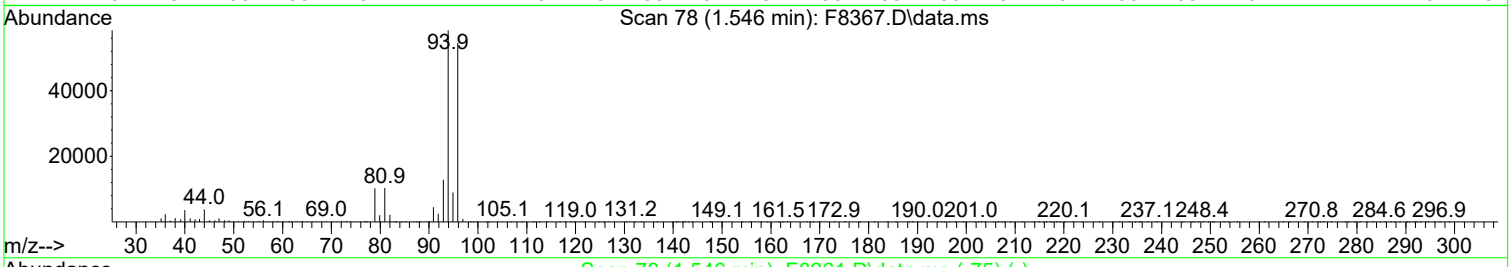
02/23/24

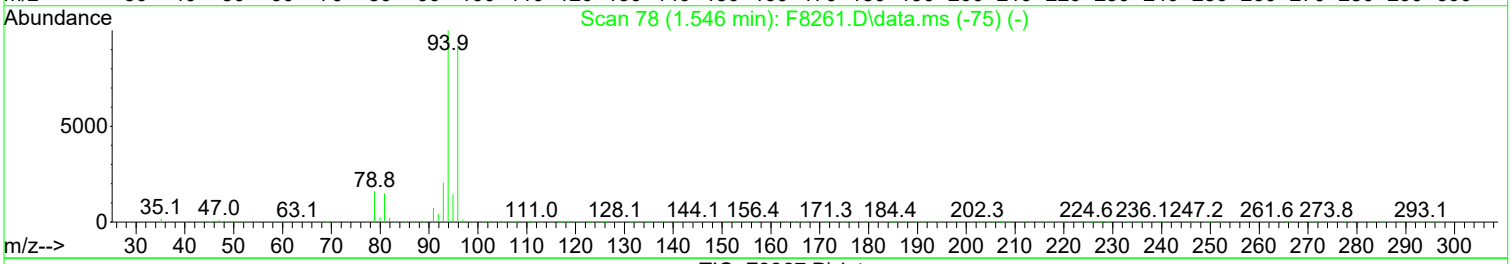
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8367.D
Acq On : 23 Feb 2024 11:47 am
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 23 12:03:19 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8367.D\data.ms

(6) Bromomethane (P)

1.546min (+ 0.001) 9.75 ug/L

response 65611

Ion	Exp%	Act%
93.90	100.00	100.00
95.90	92.30	93.53
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

02/23/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8367.D
Acq On : 23 Feb 2024 11:47 am
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 23 12:03:19 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.350	168	457770	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.478	114	710627	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.934	117	675572	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	12.031	152	368902	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.216	113	223549	49.07	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 98.14%				
48) surr1,1,2-dichloroetha...	5.771	65	278215	46.53	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 93.06%				
65) SURR3,Toluene-d8	8.368	98	869530	46.93	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 93.86%				
70) SURR2,BFB	11.044	95	320867	45.59	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 91.18%				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.137	51	84053	22.100	ug/L		95
3) Dichlorodifluoromethane	1.119	85	63995	13.365	ug/L		97
4) Chloromethane	1.259	50	104460	20.743	ug/L		95
5) Vinyl Chloride	1.326	62	88434	15.917	ug/L		94
6) Bromomethane	1.546	94	73713m	10.980	ug/L		
7) Chloroethane	1.625	64	66639	13.308	ug/L		99
8) Freon 21	1.777	67	152004	16.460	ug/L		97
9) Trichlorofluoromethane	1.820	101	134418	18.384	ug/L		99
10) Diethyl Ether	2.052	59	81040	18.864	ug/L		97
11) Freon 123a	2.064	67	101128	19.983	ug/L		93
12) Freon 123	2.113	83	108838	20.616	ug/L		99
13) Acrolein	2.168	56	34339	34.039	ug/L		98
14) 1,1-Diclethene	2.241	96	58933	17.997	ug/L		95
15) Freon 113	2.241	101	64143	19.530	ug/L		100
16) Acetone	2.302	43	38060	14.017	ug/L		98
17) 2-Propanol	2.436	45	141147	323.343	ug/L		99
18) Iodomethane	2.375	142	67287	13.638	ug/L		100
19) Carbon Disulfide	2.430	76	180954	17.948	ug/L		99
20) Acetonitrile	2.576	41	120566m	103.979	ug/L		
21) Allyl Chloride	2.576	76	38903	19.415	ug/L	#	79
22) Methyl Acetate	2.607	43	84371	12.601	ug/L		96
23) Methylene Chloride	2.698	84	76817	18.530	ug/L		97
24) TBA	2.844	59	233050	306.737	ug/L		94
25) Acrylonitrile	2.978	53	218163	87.187	ug/L		99
26) Methyl-t-Butyl Ether	2.991	73	256996	17.946	ug/L		99
27) trans-1,2-Dichloroethene	2.984	96	72610	18.482	ug/L		95
28) 1,1-Diclethane	3.490	63	143250	19.230	ug/L		99
29) Vinyl Acetate	3.582	86	14261	23.191	ug/L	#	76
30) DIPE	3.594	45	252232	18.567	ug/L		100
31) 2-Chloro-1,3-Butadiene	3.600	53	128319	18.388	ug/L		99
32) ETBE	4.118	59	217082	16.891	ug/L		99
33) 2,2-Dichloropropane	4.314	77	105537	20.083	ug/L		90
34) cis-1,2-Dichloroethene	4.332	96	89212	19.135	ug/L		97
35) 2-Butanone	4.405	43	54525	14.767	ug/L		94
36) Propionitrile	4.521	54	93669	84.709	ug/L		100
37) Bromochloromethane	4.734	130	59860	19.423	ug/L		95
38) Methacrylonitrile	4.771	67	46004	17.008	ug/L		94
39) Tetrahydrofuran	4.838	42	38275	15.617	ug/L		99
40) Chloroform	4.917	83	145282	18.719	ug/L		97

1st FJ 02/25/24
2nd AM 02/27/24

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8367.D
Acq On : 23 Feb 2024 11:47 am
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 23 12:03:19 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-Trichloroethane	5.191	97	115006	18.854	ug/L	99
42) TAME	6.069	73	231223	18.309	ug/L	99
44) Cyclohexane	5.252	41	80783	19.777	ug/L	95
46) Carbontetrachloride	5.466	117	92443	21.111	ug/L	98
47) 1,1-Dichloropropene	5.490	75	100557	19.434	ug/L	95
49) Benzene	5.825	78	315755	19.876	ug/L	97
50) 1,2-Dichloroethane	5.892	62	124628	17.899	ug/L	99
51) Iso-Butyl Alcohol	5.892	43	89472	291.163	ug/L	96
52) n-Heptane	6.301	43	104947	21.978	ug/L	98
53) 1-Butanol	6.892	56	130320	804.951	ug/L	99
54) Trichloroethene	6.807	130	83868	19.693	ug/L	97
55) Methylcyclohexane	7.032	55	101870	20.294	ug/L	94
56) 1,2-Diclpropane	7.118	63	83618	19.143	ug/L	98
57) Dibromomethane	7.270	93	60277	18.547	ug/L	92
58) 1,4-Dioxane	7.343	88	33874	321.529	ug/L	96
59) Methyl Methacrylate	7.356	69	74983	18.980	ug/L	91
60) Bromodichloromethane	7.508	83	107387	19.267	ug/L	98
61) 2-Nitropropane	7.831	41	40057	29.515	ug/L	94
63) cis-1,3-Dichloropropene	8.069	75	128479	20.127	ug/L	97
64) 4-Methyl-2-pentanone	8.301	43	119458	16.773	ug/L	98
66) Toluene	8.441	91	359840	19.777	ug/L	100
67) trans-1,3-Dichloropropene	8.746	75	113225	20.354	ug/L	99
68) Ethyl Methacrylate	8.892	69	124622	18.767	ug/L	99
69) 1,1,2-Trichloroethane	8.947	97	82869	18.640	ug/L	97
72) Tetrachloroethene	9.056	164	69698	21.679	ug/L	98
73) 2-Hexanone	9.258	43	86344	16.479	ug/L	99
74) 1,3-Dichloropropane	9.124	76	149660	19.426	ug/L	98
75) Dibromochloromethane	9.361	129	82647	19.734	ug/L	95
76) N-Butyl Acetate	9.410	43	162480	17.104	ug/L	98
77) 1,2-Dibromoethane	9.459	107	88022	19.073	ug/L	95
78) 3-Chlorobenzotrifluoride	9.983	180	129993	21.066	ug/L	98
79) Chlorobenzene	9.965	112	241996	19.644	ug/L	98
80) 4-Chlorobenzotrifluoride	10.044	180	115118	21.802	ug/L	96
81) 1,1,1,2-Tetrachloroethane	10.056	131	75316	20.942	ug/L	97
82) Ethylbenzene	10.081	106	123050	20.006	ug/L	98
83) (m+p)Xylene	10.203	106	311580	40.344	ug/L	98
84) o-Xylene	10.568	106	153930	19.684	ug/L	97
85) Styrene	10.587	104	263728	20.121	ug/L	100
86) Bromoform	10.751	173	60075	21.964	ug/L	97
87) 2-Chlorobenzotrifluoride	10.831	180	128448	21.081	ug/L	97
88) Isopropylbenzene	10.910	105	380971	19.482	ug/L	99
89) Cyclohexanone	11.001	55	89506	67.269	ug/L	96
90) trans-1,4-Dichloro-2-B...	11.245	53	31279	14.777	ug/L	88
92) 1,1,2,2-Tetrachloroethane	11.196	83	129225	18.843	ug/L	97
93) Bromobenzene	11.166	156	108137	20.307	ug/L	95
94) 1,2,3-Trichloropropane	11.227	110	42337	18.339	ug/L	96
95) n-Propylbenzene	11.276	91	463607	19.663	ug/L	100
96) 2-Chlorotoluene	11.343	91	271571	19.129	ug/L	96
97) 3-Chlorotoluene	11.397	91	277306	19.162	ug/L	99
98) 4-Chlorotoluene	11.440	91	323047	19.722	ug/L	99
99) 1,3,5-Trimethylbenzene	11.434	105	329066	19.564	ug/L	99
100) tert-Butylbenzene	11.708	119	285502	20.344	ug/L	99
101) 1,2,4-Trimethylbenzene	11.751	105	336327	19.902	ug/L	99
102) 3,4-Dichlorobenzotrifl...	11.812	214	104576	21.857	ug/L	95
103) sec-Butylbenzene	11.891	105	405782	19.991	ug/L	98
104) p-Isopropyltoluene	12.013	119	354031	20.734	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8367.D
Acq On : 23 Feb 2024 11:47 am
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 23 12:03:19 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

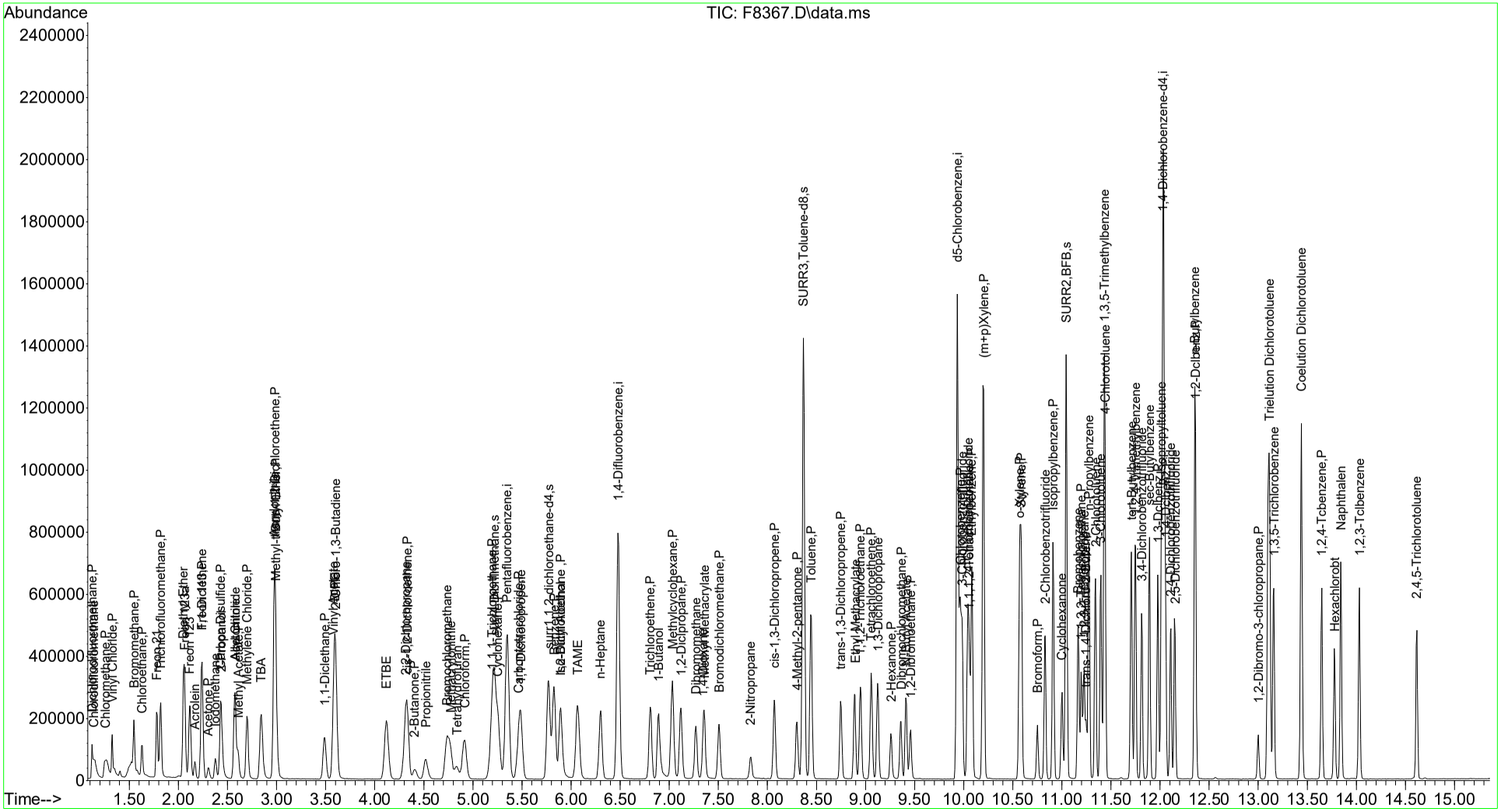
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.977	146	202331	20.971	ug/L	99
106) 1,4-Dclbenz	12.056	146	206713	19.576	ug/L	98
107) 2,4-Dichlorobenzotrifl...	12.111	214	95358	21.845	ug/L	97
108) 2,5-Dichlorobenzotrifl...	12.153	214	106227	21.754	ug/L	98
109) n-Butylbenzene	12.355	91	307433	20.273	ug/L	99
110) 1,2-Dclbenz	12.361	146	198796	19.886	ug/L	98
111) 1,2-Dibromo-3-chloropr...	13.001	157	27649	19.685	ug/L	99
112) Trielution Dichlorotol...	13.111	125	484380	59.513	ug/L	98
113) 1,3,5-Trichlorobenzene	13.159	180	150816	21.234	ug/L	98
114) Coelution Dichlorotoluene	13.440	125	356809	39.880	ug/L	99
115) 1,2,4-Tcbenzene	13.647	180	141116	21.114	ug/L	100
116) Hexachlorobt	13.781	225	61540	23.061	ug/L	98
117) Naphthalen	13.842	128	388318	17.854	ug/L	99
118) 1,2,3-Tclbenzene	14.031	180	140431	21.077	ug/L	97
119) 2,4,5-Trichlorotoluene	14.616	159	98885	21.741	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8367.D
Acq On : 23 Feb 2024 11:47 am
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 23 12:03:19 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

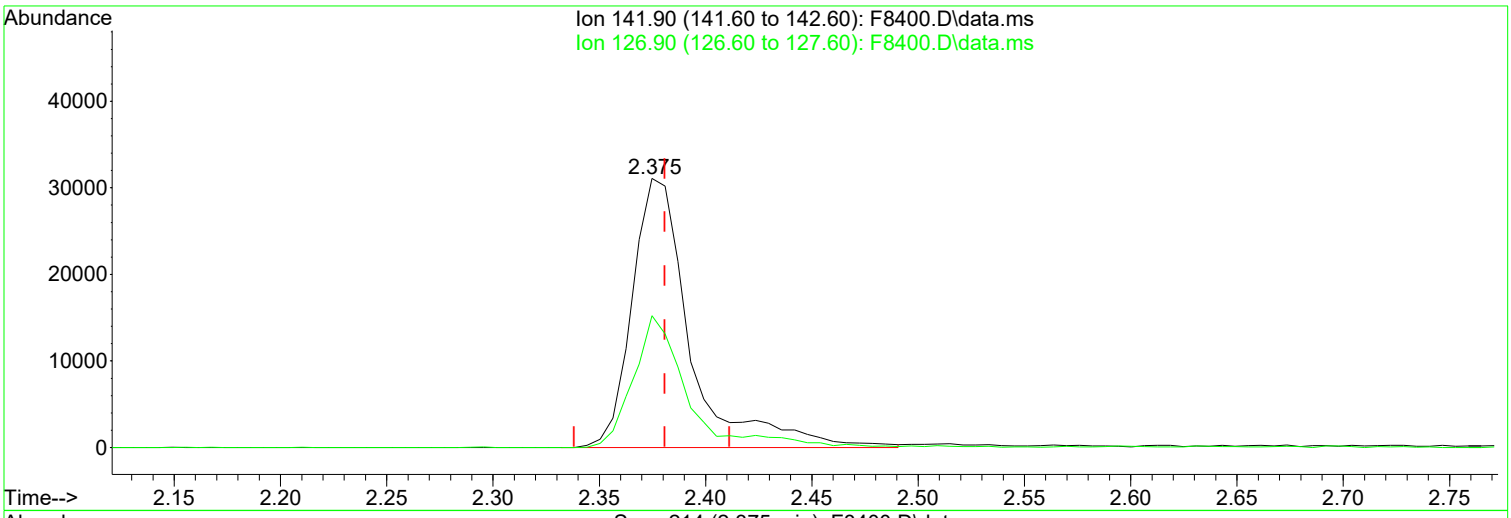


1st FJ 02/25/24
2nd AM 02/27/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8400.D
Acq On : 25 Feb 2024 02:45 pm
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 15:01:26 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



TIC: F8400.D\data.ms

(18) Iodomethane

2.375min (-0.006) 12.13 ug/L m

response 59726

Ion	Exp%	Act%
141.90	100.00	100.00
126.90	46.80	49.05
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

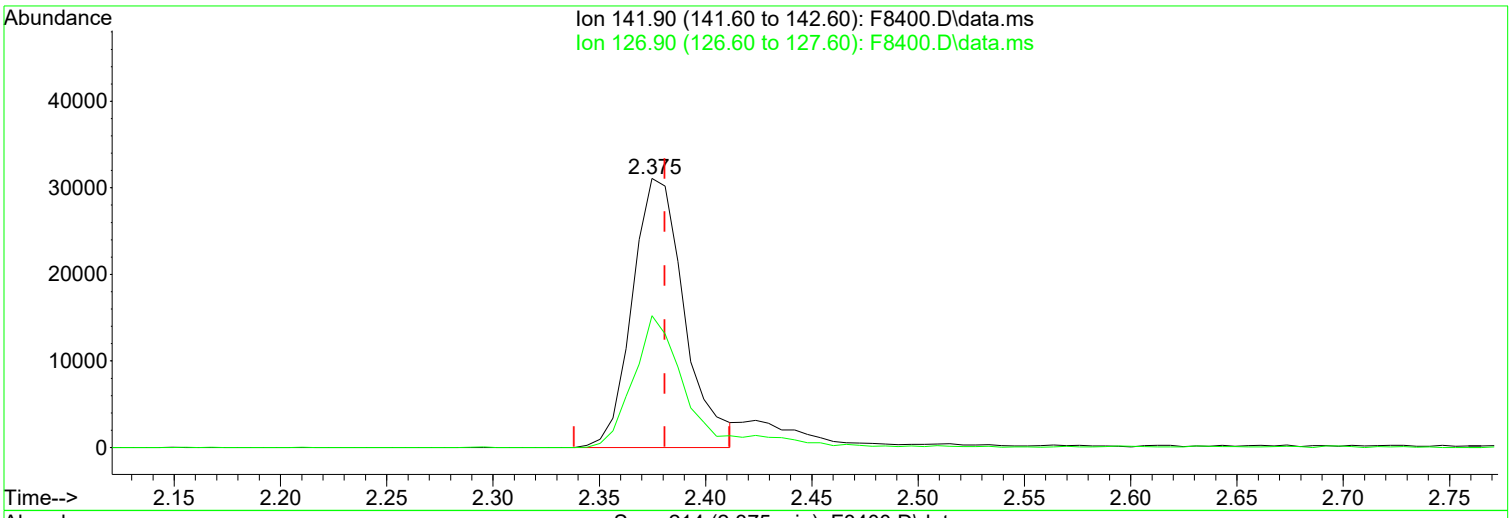
Poor integration.

02/25/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8400.D
Acq On : 25 Feb 2024 02:45 pm
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 15:01:26 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



TIC: F8400.D\data.ms

(18) Iodomethane

2.375min (-0.006) 10.75 ug/L

response 52939

Ion	Exp%	Act%
141.90	100.00	100.00
126.90	46.80	49.05
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

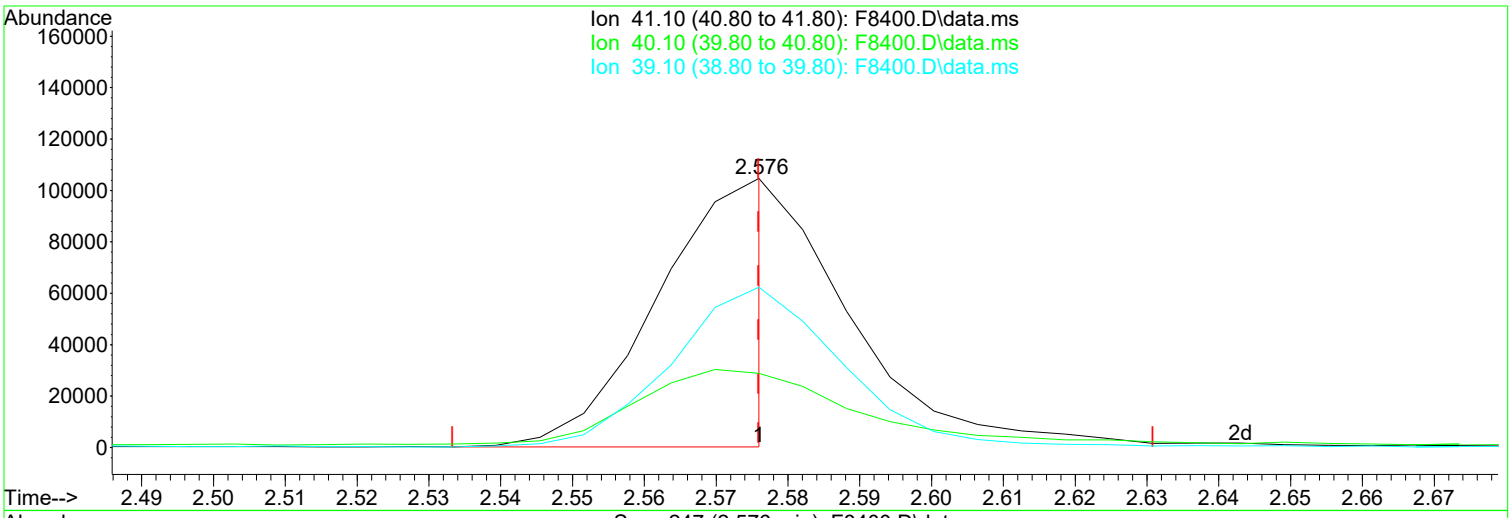
Before

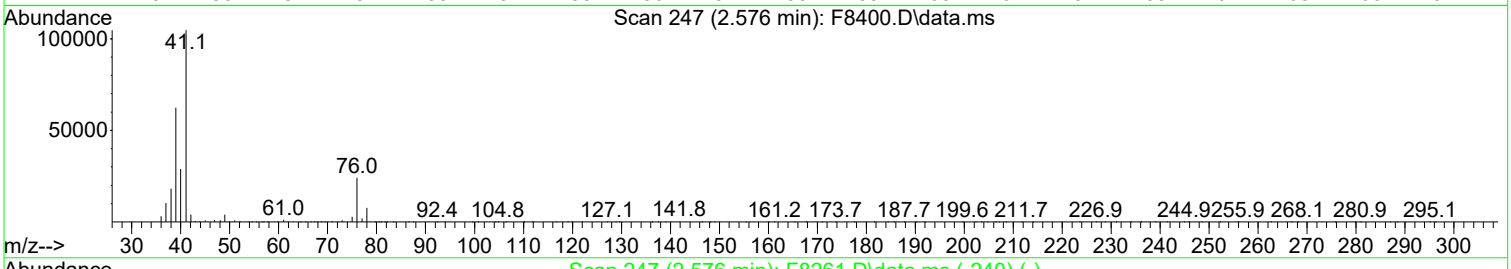
02/25/24

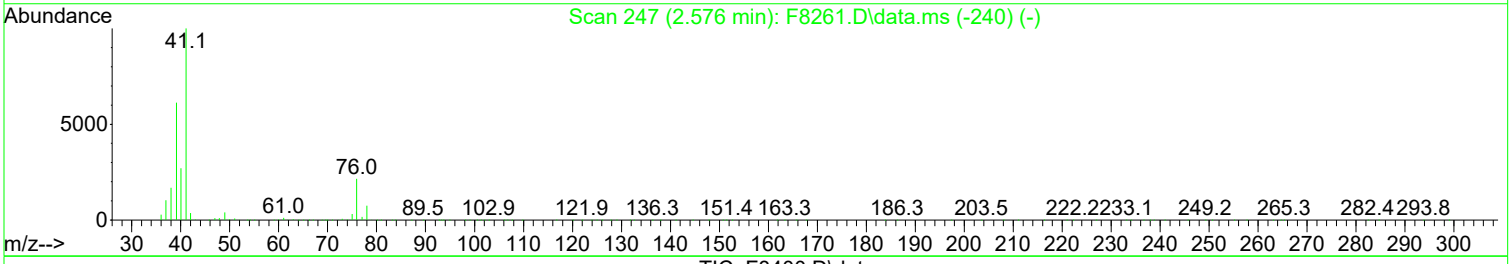
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8400.D
Acq On : 25 Feb 2024 02:45 pm
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 15:01:26 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8400.D\data.ms

(20) Acetonitrile

2.576min (+ 0.000) 101.79 ug/L m

response 117830

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	27.60	27.64
39.10	61.30	59.56
0.00	0.00	0.00

Manual Integration:

After

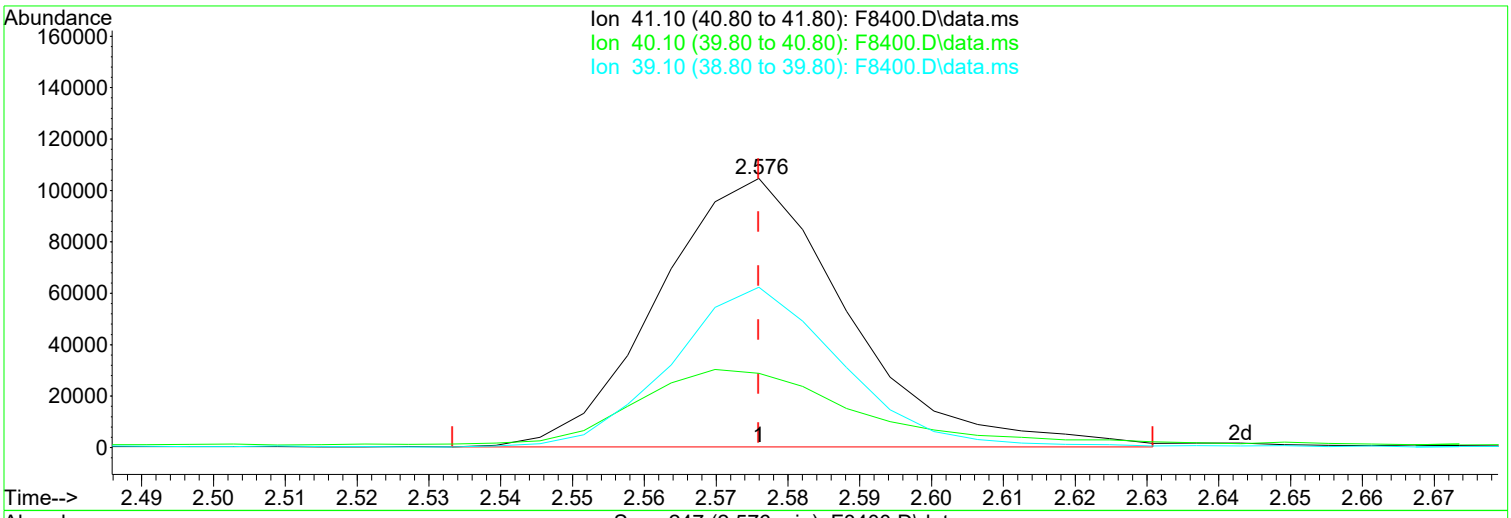
Poor integration.

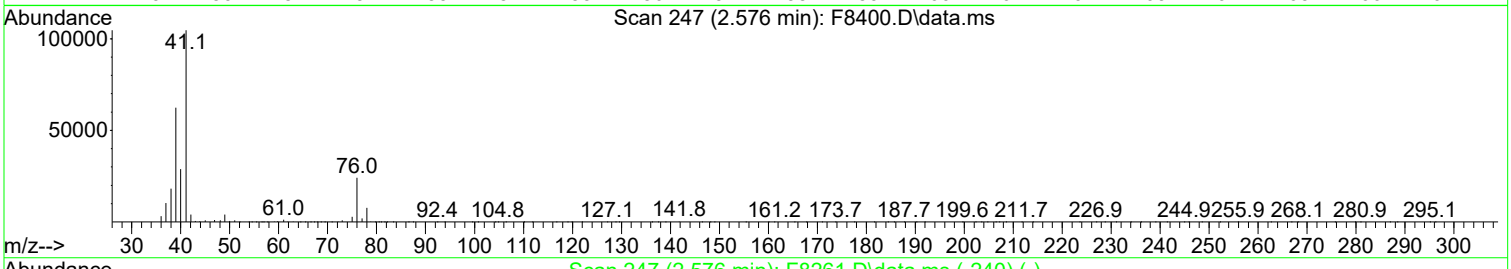
02/25/24

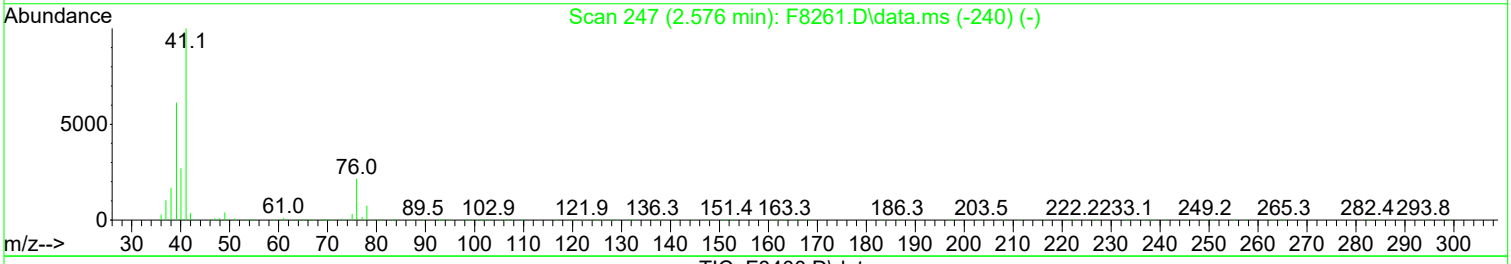
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8400.D
Acq On : 25 Feb 2024 02:45 pm
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 15:01:26 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8400.D\data.ms

(20) Acetonitrile

2.576min (+ 0.000) 165.83 ug/L

response 191970

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	27.60	27.64
39.10	61.30	59.56
0.00	0.00	0.00

Manual Integration:

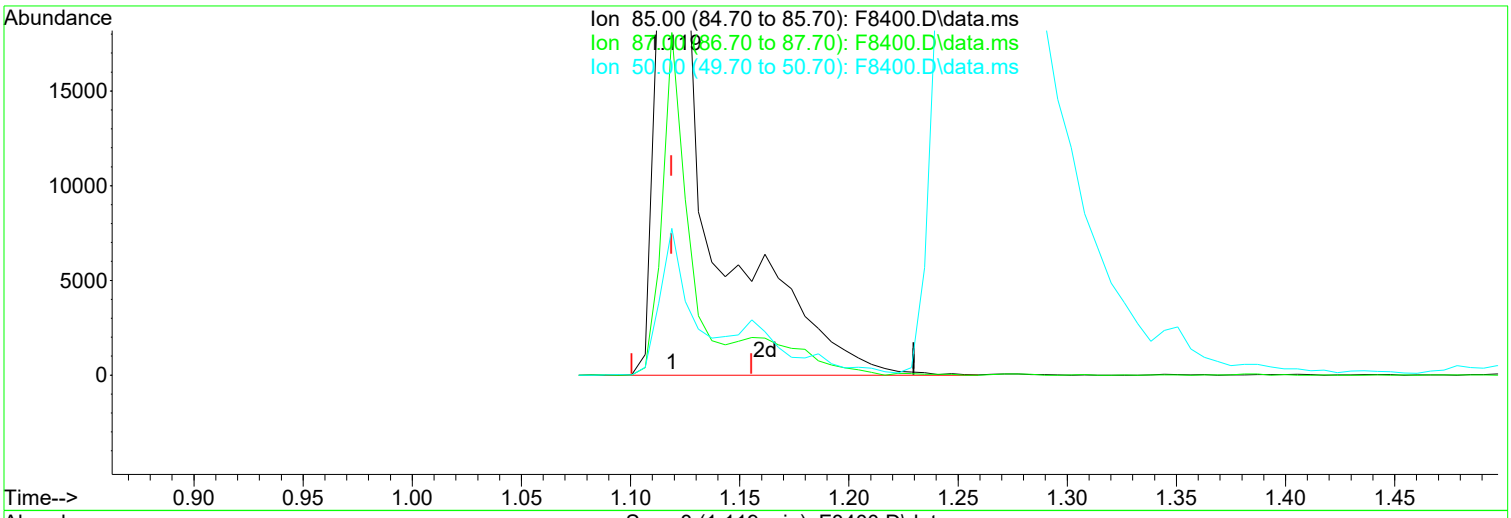
Before

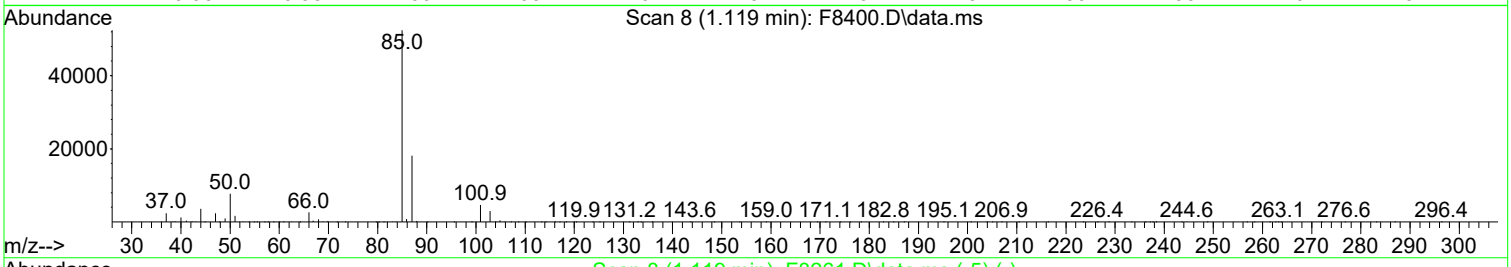
02/25/24

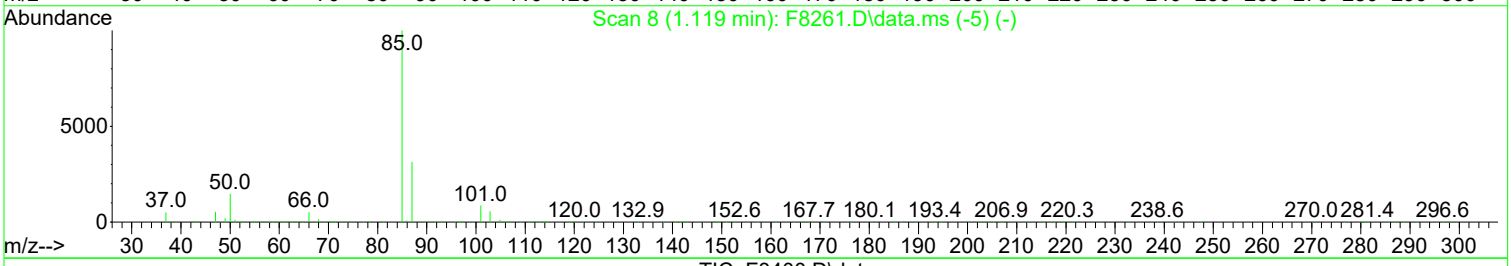
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8400.D
Acq On : 25 Feb 2024 02:45 pm
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 15:01:26 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8400.D\data.ms

(3) Dichlorodifluoromethane (P)

1.119min (+ 0.000) 12.09 ug/L m

response 57789

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.30	34.49
50.00	14.60	14.77
0.00	0.00	0.00

Manual Integration:

After

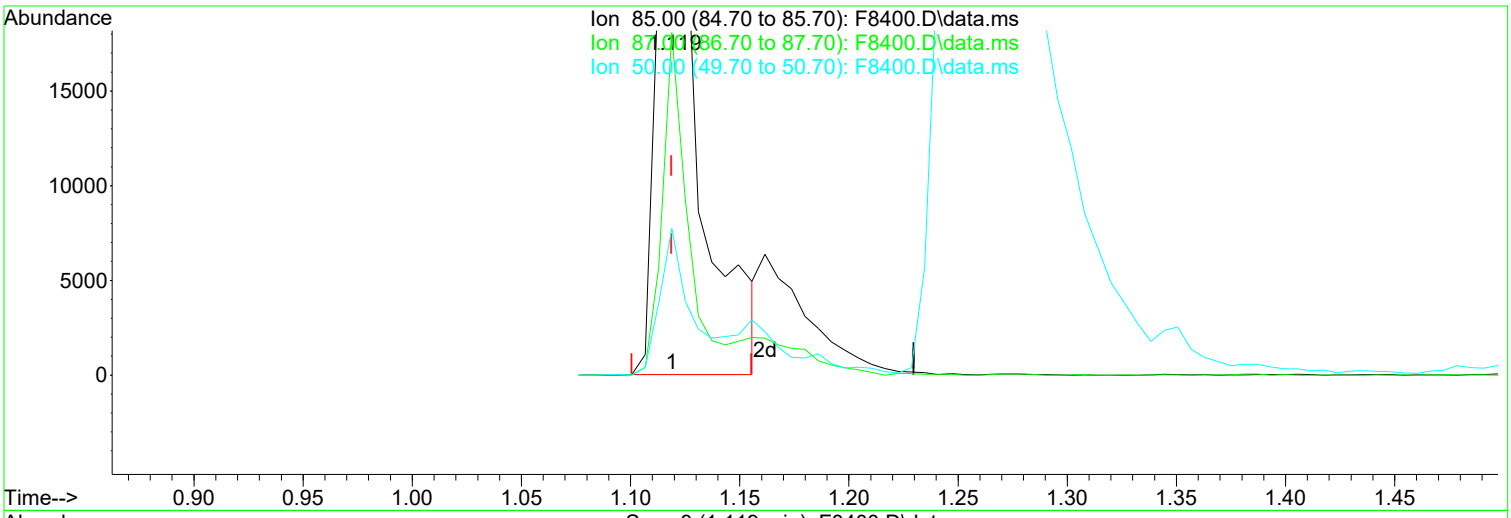
Poor integration.

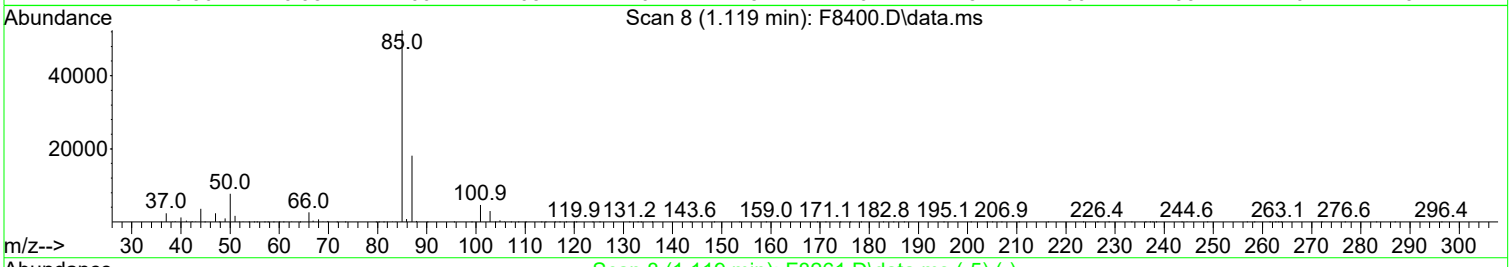
02/25/24

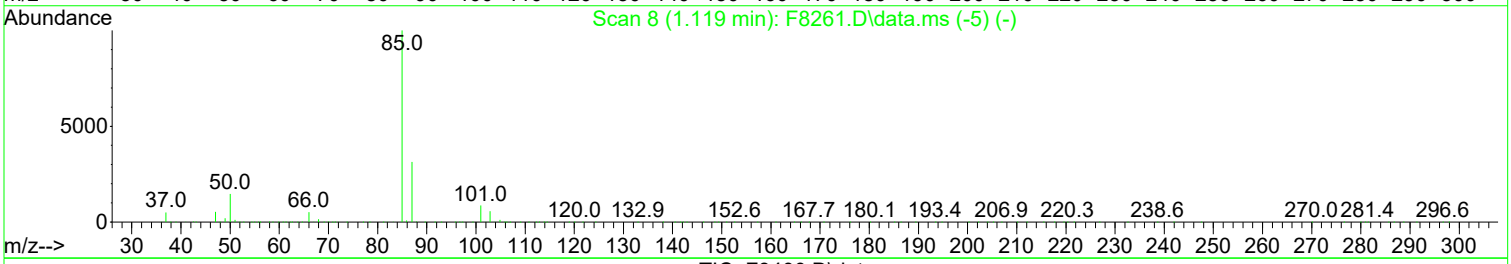
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8400.D
Acq On : 25 Feb 2024 02:45 pm
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 15:01:26 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8400.D\data.ms

(3) Dichlorodifluoromethane (P)

1.119min (+ 0.000) 9.99 ug/L

response 47769

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.30	34.49
50.00	14.60	14.77
0.00	0.00	0.00

Manual Integration:

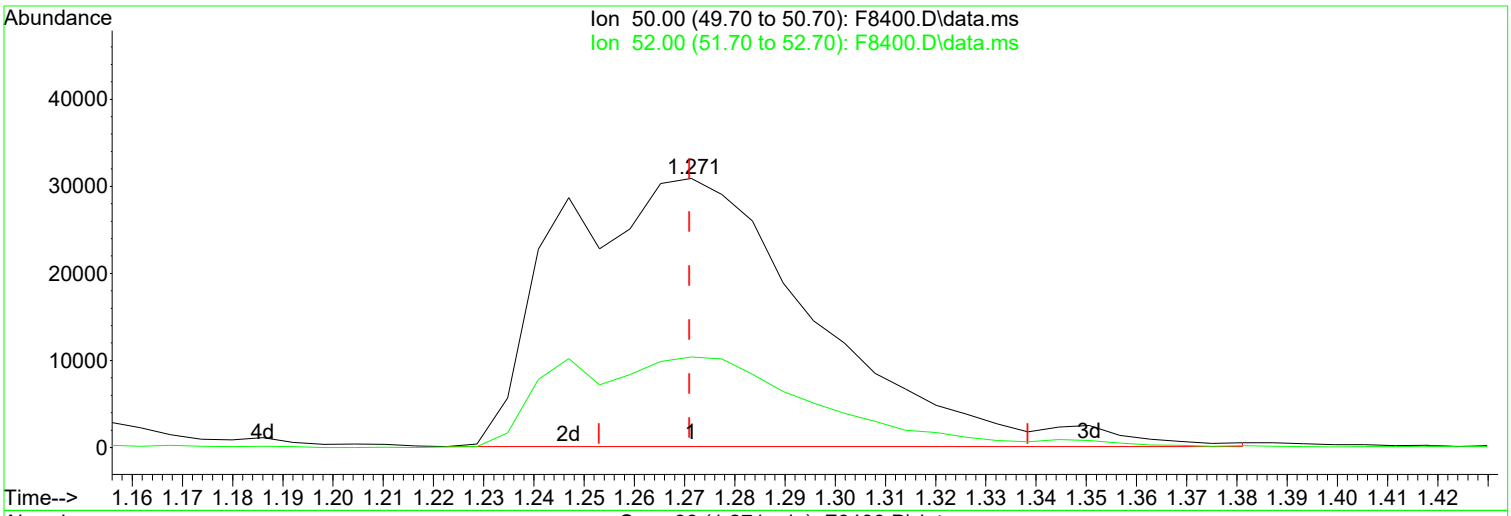
Before

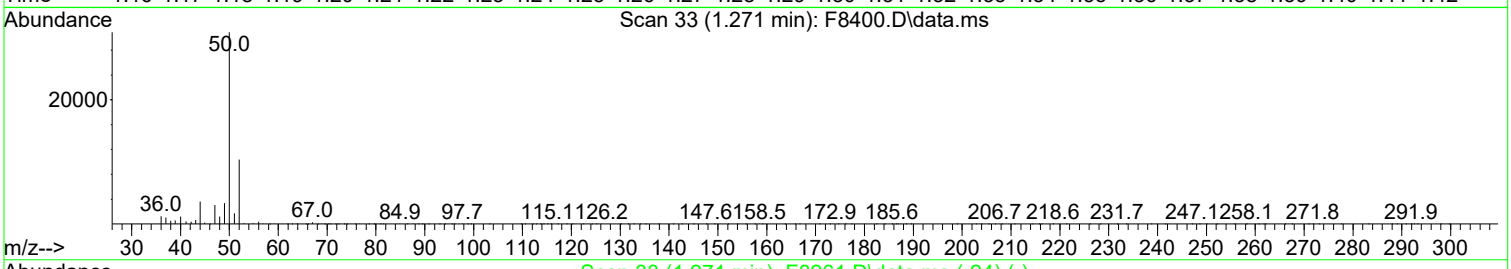
02/25/24

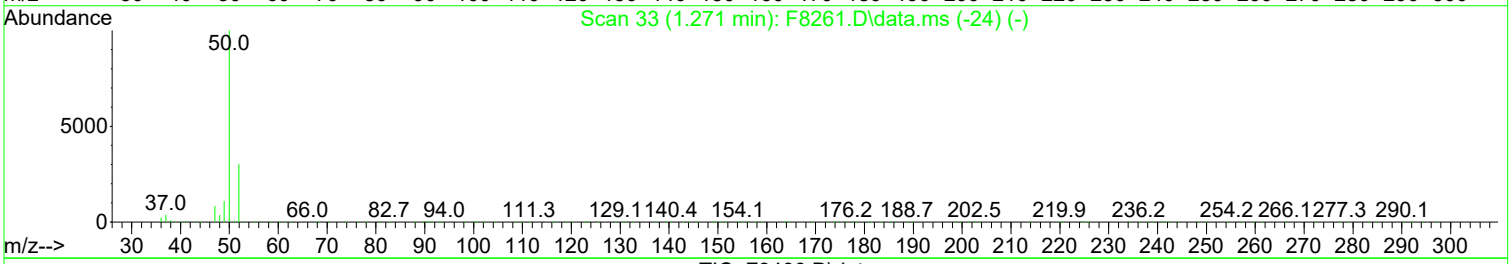
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8400.D
Acq On : 25 Feb 2024 02:45 pm
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 15:01:26 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8400.D\data.ms

(4) Chloromethane (P)

1.271min (+ 0.000) 22.00 ug/L m

response 110410

Ion	Exp%	Act%
50.00	100.00	100.00
52.00	30.30	33.65
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

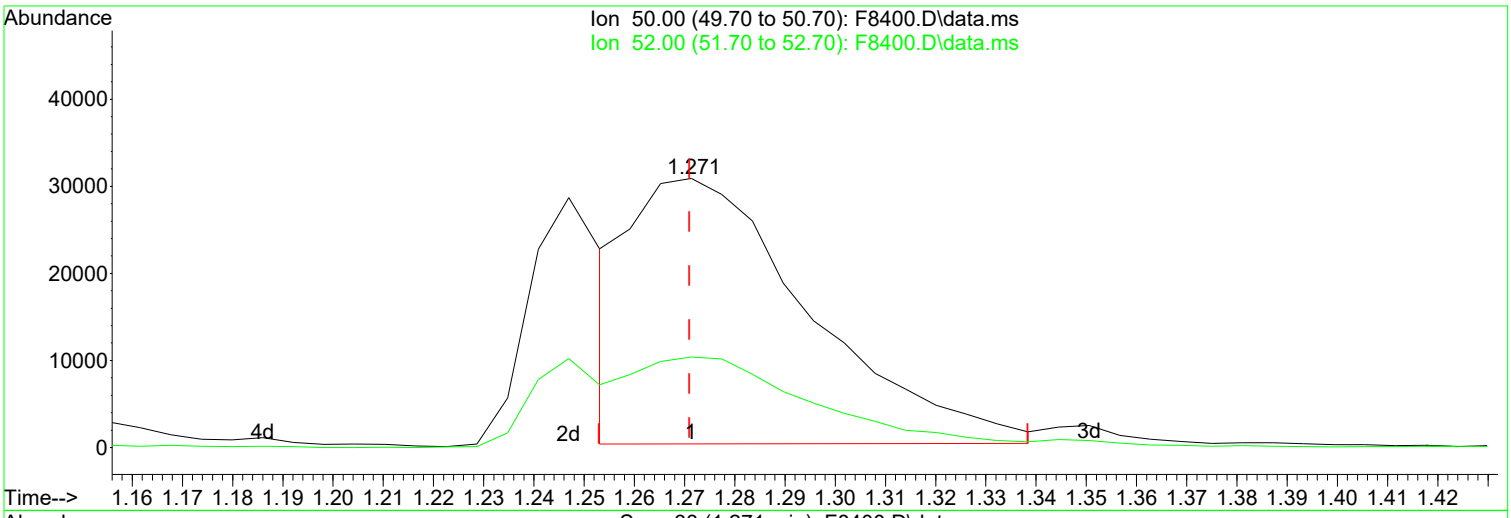
Poor integration.

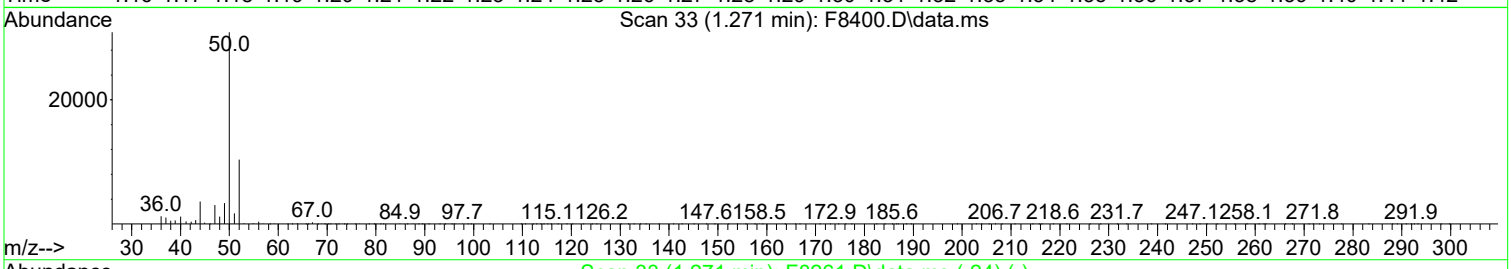
02/25/24

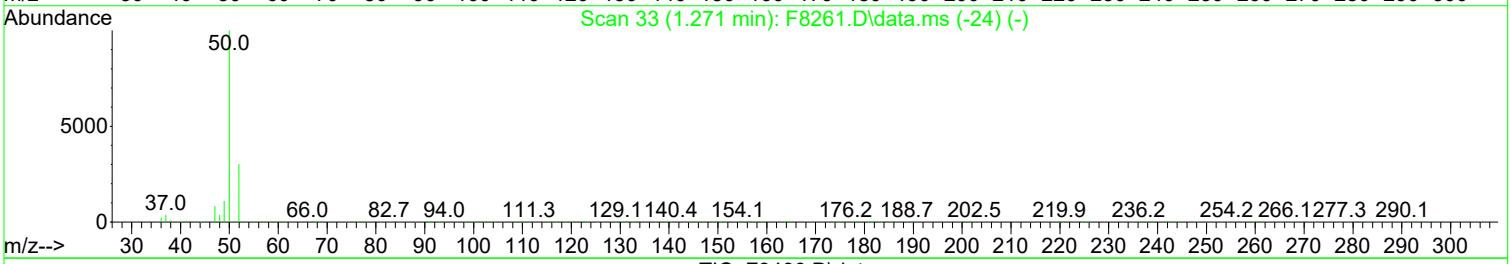
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8400.D
Acq On : 25 Feb 2024 02:45 pm
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 15:01:26 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8400.D\data.ms

(4) Chloromethane (P)

1.271min (+ 0.000) 15.07 ug/L

response 76477

Ion	Exp%	Act%
50.00	100.00	100.00
52.00	30.30	33.65
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

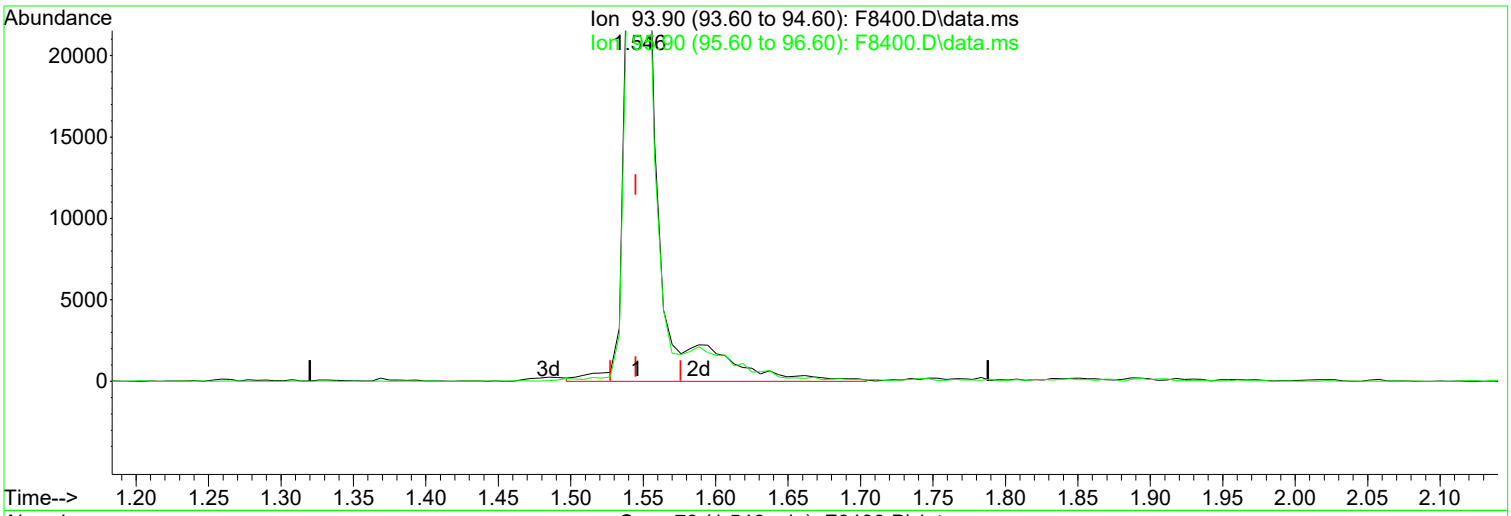
02/25/24

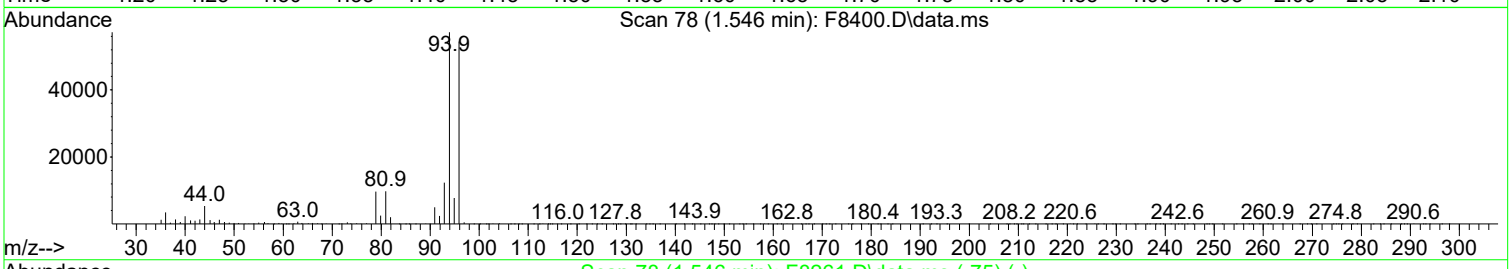
1st FJ 02/26/24
2nd AM 02/28/24

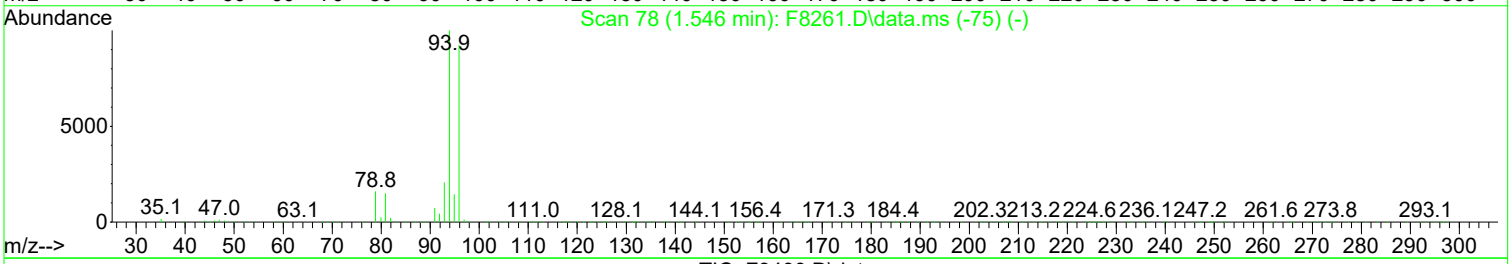
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8400.D
Acq On : 25 Feb 2024 02:45 pm
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 15:01:26 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8400.D\data.ms

(6) Bromomethane (P)

1.546min (+ 0.001) 9.25 ug/L m

response 62210

Ion	Exp%	Act%
93.90	100.00	100.00
95.90	92.30	95.25
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

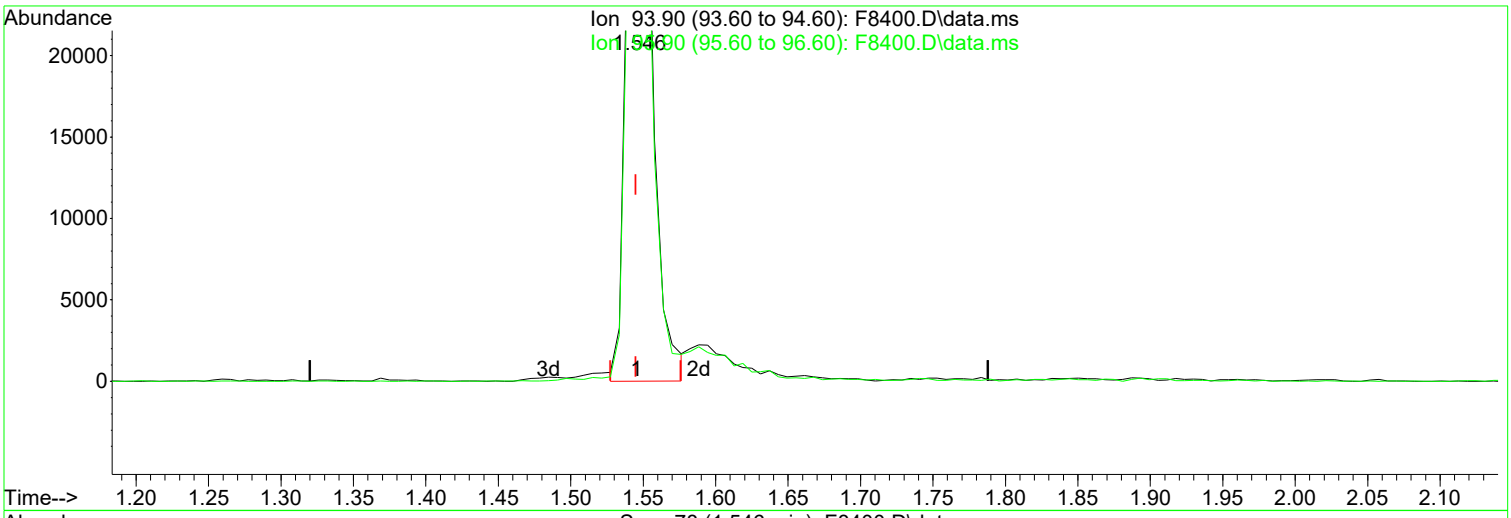
Poor integration.

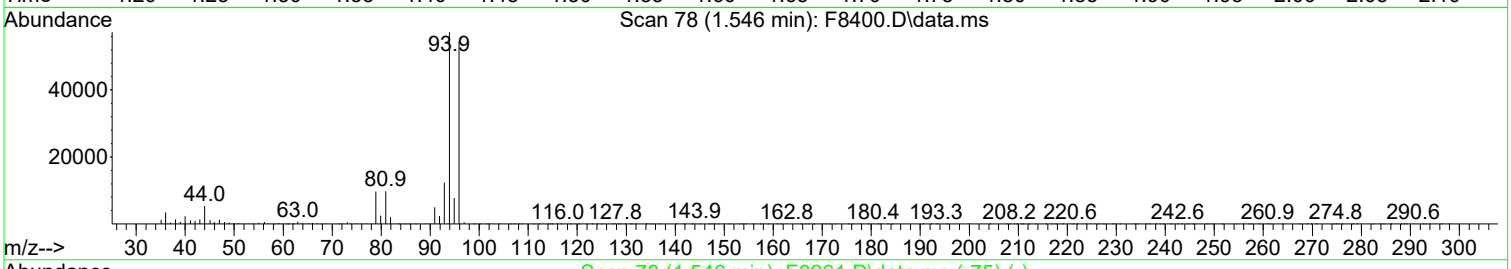
02/25/24

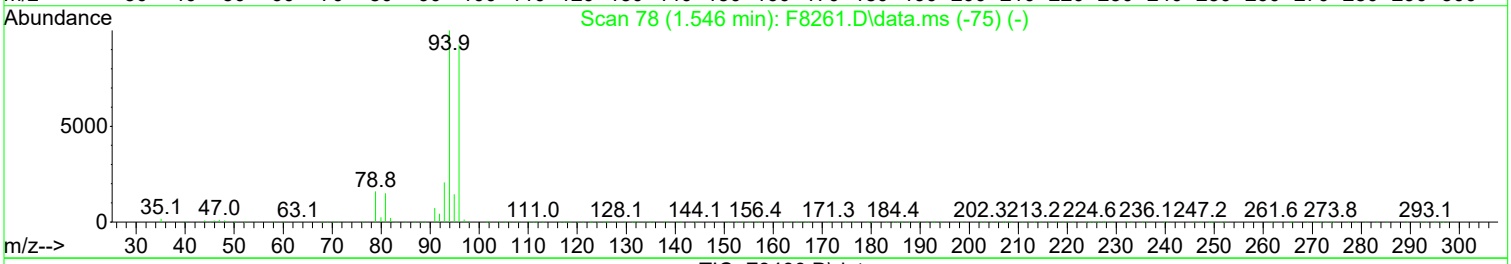
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8400.D
Acq On : 25 Feb 2024 02:45 pm
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 15:01:26 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8400.D\data.ms

(6) Bromomethane (P)

1.546min (+ 0.001) 8.25 ug/L

response 55528

Ion	Exp%	Act%
93.90	100.00	100.00
95.90	92.30	95.25
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

02/25/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8400.D
Acq On : 25 Feb 2024 02:45 pm
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 15:01:26 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.350	168	457024	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.478	114	715756	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.934	117	673448	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	12.038	152	363930	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.216	113	220218	47.99	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 95.98%				
48) surr1,1,2-dichloroetha...	5.770	65	282396	46.89	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 93.78%				
65) SURR3,Toluene-d8	8.367	98	861087	46.14	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 92.28%				
70) SURR2,BFB	11.044	95	317982	44.86	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 89.72%				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.149	51	74670	19.665	ug/L		95
3) Dichlorodifluoromethane	1.119	85	57789m	12.089	ug/L		
4) Chloromethane	1.271	50	110410m	22.001	ug/L		
5) Vinyl Chloride	1.326	62	86582	15.609	ug/L		94
6) Bromomethane	1.546	94	62210m	9.254	ug/L		
7) Chloroethane	1.625	64	63555	12.713	ug/L		100
8) Freon 21	1.777	67	139778	15.161	ug/L		98
9) Trichlorofluoromethane	1.820	101	126361	17.310	ug/L		95
10) Diethyl Ether	2.052	59	63443	14.792	ug/L		97
11) Freon 123a	2.064	67	72972	14.443	ug/L		90
12) Freon 123	2.113	83	98517	18.692	ug/L		96
13) Acrolein	2.167	56	34016	33.774	ug/L		100
14) 1,1-Diclethene	2.241	96	57149	17.481	ug/L		90
15) Freon 113	2.235	101	58209	17.753	ug/L		92
16) Acetone	2.308	43	39718	14.651	ug/L		97
17) 2-Propanol	2.442	45	148648	341.083	ug/L		98
18) Iodomethane	2.375	142	59726m	12.125	ug/L		
19) Carbon Disulfide	2.430	76	156556	15.553	ug/L		100
20) Acetonitrile	2.576	41	117830m	101.786	ug/L		
21) Allyl Chloride	2.576	76	37899	18.945	ug/L	#	87
22) Methyl Acetate	2.606	43	81247	12.154	ug/L		97
23) Methylene Chloride	2.698	84	77330	18.687	ug/L		96
24) TBA	2.844	59	258596	340.916	ug/L		96
25) Acrylonitrile	2.978	53	224433	89.840	ug/L		99
26) Methyl-t-Butyl Ether	2.990	73	256481	17.939	ug/L		97
27) trans-1,2-Dichloroethene	2.984	96	69295	17.667	ug/L		96
28) 1,1-Diclethane	3.490	63	138943	18.682	ug/L		99
29) Vinyl Acetate	3.582	86	13757	22.408	ug/L	#	83
30) DIPE	3.594	45	237989	17.547	ug/L		94
31) 2-Chloro-1,3-Butadiene	3.600	53	114879	16.489	ug/L		97
32) ETBE	4.118	59	205858	16.043	ug/L		98
33) 2,2-Dichloropropane	4.313	77	95885	18.276	ug/L		99
34) cis-1,2-Dichloroethene	4.332	96	88024	18.911	ug/L		93
35) 2-Butanone	4.405	43	58718	15.929	ug/L		97
36) Propionitrile	4.521	54	101291	91.752	ug/L		97
37) Bromochloromethane	4.734	130	57803	18.786	ug/L		95
38) Methacrylonitrile	4.765	67	49473	18.320	ug/L		99
39) Tetrahydrofuran	4.838	42	43187	17.650	ug/L		97
40) Chloroform	4.917	83	140774	18.167	ug/L		95

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8400.D
Acq On : 25 Feb 2024 02:45 pm
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 15:01:26 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-Trichloroethane	5.191	97	111335	18.282	ug/L	97
42) TAME	6.069	73	218856	17.358	ug/L	99
44) Cyclohexane	5.252	41	70254	17.076	ug/L	96
46) Carbontetrachloride	5.472	117	85867	19.468	ug/L	98
47) 1,1-Dichloropropene	5.490	75	95091	18.246	ug/L	97
49) Benzene	5.825	78	309515	19.344	ug/L	98
50) 1,2-Dichloroethane	5.892	62	124491	17.751	ug/L	97
51) Iso-Butyl Alcohol	5.898	43	101585	328.213	ug/L	98
52) n-Heptane	6.301	43	90724	18.863	ug/L	96
53) 1-Butanol	6.892	56	135228	827.521	ug/L	99
54) Trichloroethene	6.807	130	79458	18.524	ug/L	98
55) Methylcyclohexane	7.032	55	88677	17.539	ug/L	93
56) 1,2-Diclpropane	7.118	63	82297	18.706	ug/L	96
57) Dibromomethane	7.270	93	62192	18.999	ug/L	98
58) 1,4-Dioxane	7.343	88	38248	360.445	ug/L	97
59) Methyl Methacrylate	7.356	69	76704	19.276	ug/L	94
60) Bromodichloromethane	7.508	83	104131	18.549	ug/L	98
61) 2-Nitropropane	7.831	41	45408	33.037	ug/L	94
63) cis-1,3-Dichloropropene	8.069	75	127499	19.839	ug/L	95
64) 4-Methyl-2-pentanone	8.300	43	125804	17.538	ug/L	99
66) Toluene	8.447	91	345317	18.843	ug/L	97
67) trans-1,3-Dichloropropene	8.752	75	110189	19.694	ug/L	98
68) Ethyl Methacrylate	8.892	69	129467	19.356	ug/L	96
69) 1,1,2-Trichloroethane	8.947	97	83914	18.740	ug/L	94
72) Tetrachloroethene	9.056	164	65844	20.545	ug/L	97
73) 2-Hexanone	9.258	43	90711	17.367	ug/L	98
74) 1,3-Dichloropropane	9.123	76	149910	19.519	ug/L	99
75) Dibromochloromethane	9.361	129	83137	19.907	ug/L	97
76) N-Butyl Acetate	9.410	43	165041	17.429	ug/L	97
77) 1,2-Dibromoethane	9.459	107	88766	19.294	ug/L	99
78) 3-Chlorobenzotrifluoride	9.983	180	108780	17.684	ug/L	97
79) Chlorobenzene	9.965	112	232633	18.943	ug/L	98
80) 4-Chlorobenzotrifluoride	10.044	180	96535	18.340	ug/L	98
81) 1,1,1,2-Tetrachloroethane	10.056	131	75398	21.028	ug/L	95
82) Ethylbenzene	10.081	106	117103	19.099	ug/L	94
83) (m+p)Xylene	10.203	106	300956	39.091	ug/L	100
84) o-Xylene	10.568	106	146116	18.744	ug/L	97
85) Styrene	10.587	104	250275	19.155	ug/L	99
86) Bromoform	10.751	173	60349	22.121	ug/L	100
87) 2-Chlorobenzotrifluoride	10.830	180	112748	18.563	ug/L	96
88) Isopropylbenzene	10.910	105	362193	18.580	ug/L	99
89) Cyclohexanone	11.001	55	101258	75.238	ug/L	97
90) trans-1,4-Dichloro-2-B...	11.245	53	32383	15.347	ug/L	92
92) 1,1,2,2-Tetrachloroethane	11.196	83	131829	19.485	ug/L	98
93) Bromobenzene	11.166	156	103782	19.755	ug/L	97
94) 1,2,3-Trichloropropane	11.227	110	44207	19.411	ug/L	96
95) n-Propylbenzene	11.275	91	434076	18.662	ug/L	99
96) 2-Chlorotoluene	11.343	91	258654	18.468	ug/L	97
97) 3-Chlorotoluene	11.397	91	251379	17.608	ug/L	99
98) 4-Chlorotoluene	11.434	91	307315	19.018	ug/L	93
99) 1,3,5-Trimethylbenzene	11.434	105	311368	18.765	ug/L	99
100) tert-Butylbenzene	11.708	119	269589	19.472	ug/L	99
101) 1,2,4-Trimethylbenzene	11.745	105	311697	18.697	ug/L	98
102) 3,4-Dichlorobenzotrifl...	11.812	214	87195	18.473	ug/L	98
103) sec-Butylbenzene	11.891	105	382790	19.116	ug/L	96
104) p-Isopropyltoluene	12.013	119	333603	19.805	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8400.D
Acq On : 25 Feb 2024 02:45 pm
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 15:01:26 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.977	146	192378	20.212	ug/L	100
106) 1,4-Dclbenz	12.056	146	195018	18.721	ug/L	99
107) 2,4-Dichlorobenzotrifl...	12.111	214	78686	18.272	ug/L	98
108) 2,5-Dichlorobenzotrifl...	12.147	214	89563	18.592	ug/L	99
109) n-Butylbenzene	12.355	91	286152	19.128	ug/L	100
110) 1,2-Dclbenz	12.361	146	190081	19.274	ug/L	99
111) 1,2-Dibromo-3-chloropr...	13.001	157	29081	20.919	ug/L	91
112) Trielution Dichlorotol...	13.110	125	429734	53.520	ug/L	97
113) 1,3,5-Trichlorobenzene	13.159	180	131954	18.832	ug/L	100
114) Coelution Dichlorotoluene	13.440	125	313794	35.552	ug/L	99
115) 1,2,4-Tcbenzene	13.647	180	130021	19.720	ug/L	99
116) Hexachlorobt	13.781	225	55241	20.984	ug/L	96
117) Naphthalen	13.842	128	396808	18.494	ug/L	99
118) 1,2,3-Tclbenzene	14.031	180	135539	20.621	ug/L	94
119) 2,4,5-Trichlorotoluene	14.616	159	86233	19.218	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8400.D
Acq On : 25 Feb 2024 02:45 pm
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 6 Sample Multiplier: 1

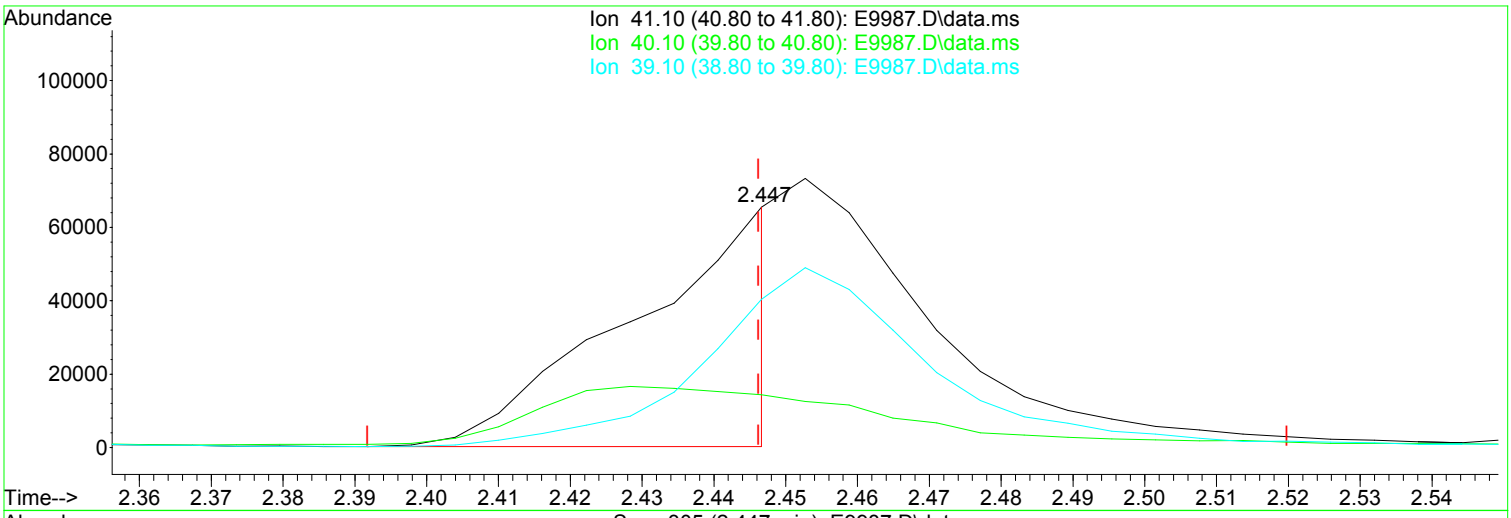
Quant Time: Feb 25 15:01:26 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

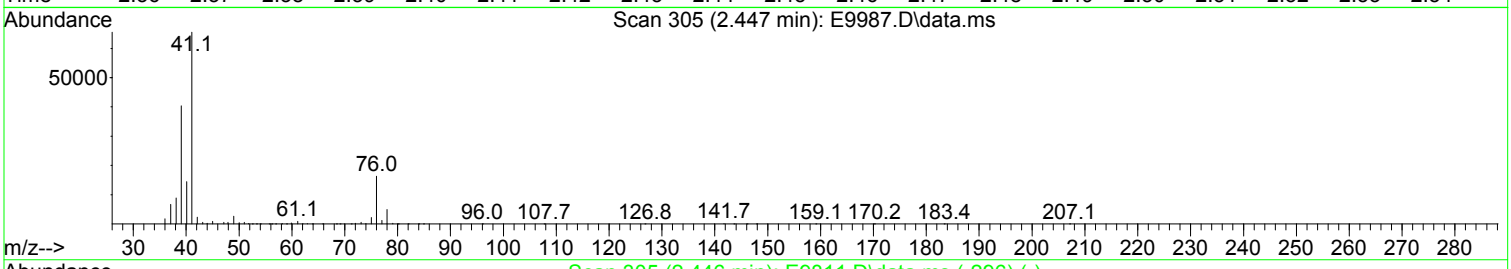
1st FJ 02/26/24
2nd AM 02/28/24

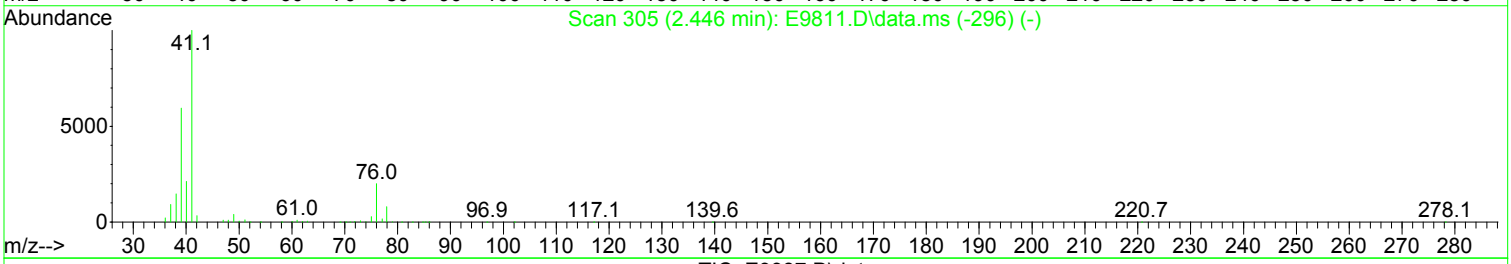
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : E9987.D
Acq On : 26 Feb 2024 11:36 am
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 26 12:01:07 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration







TIC: E9987.D\data.ms

(20) Acetonitrile

2.447min (+ 0.000) 104.15 ug/L m

response 91613

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	21.20	21.99
39.10	59.50	61.61
0.00	0.00	0.00

Manual Integration:

After

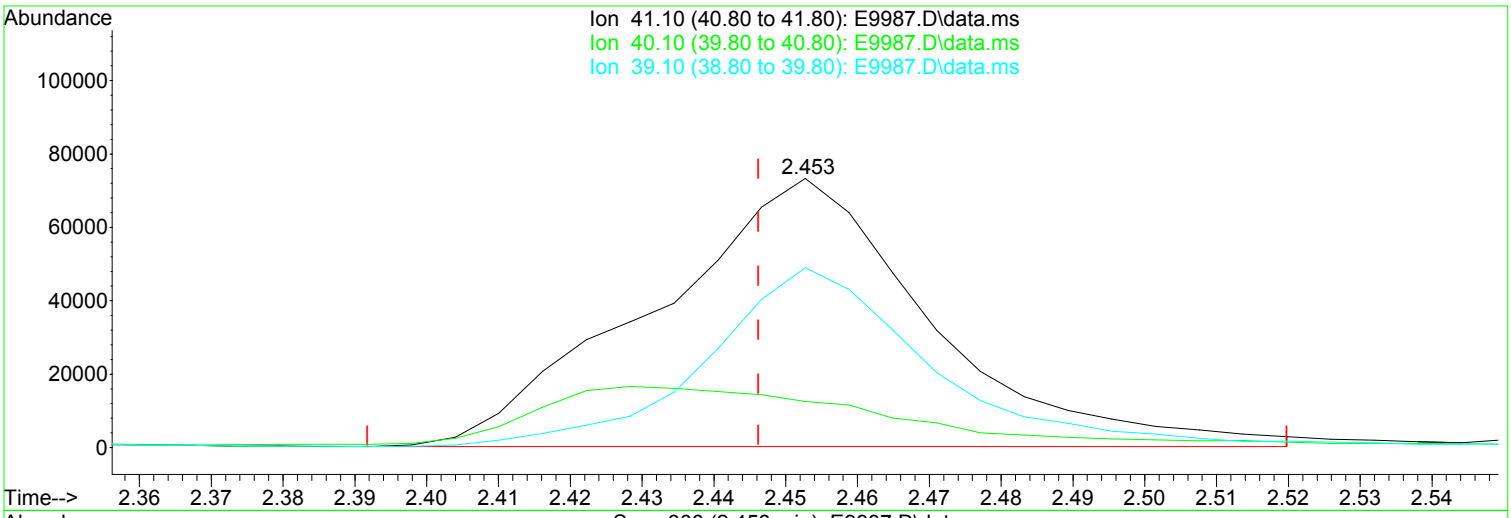
Poor integration.

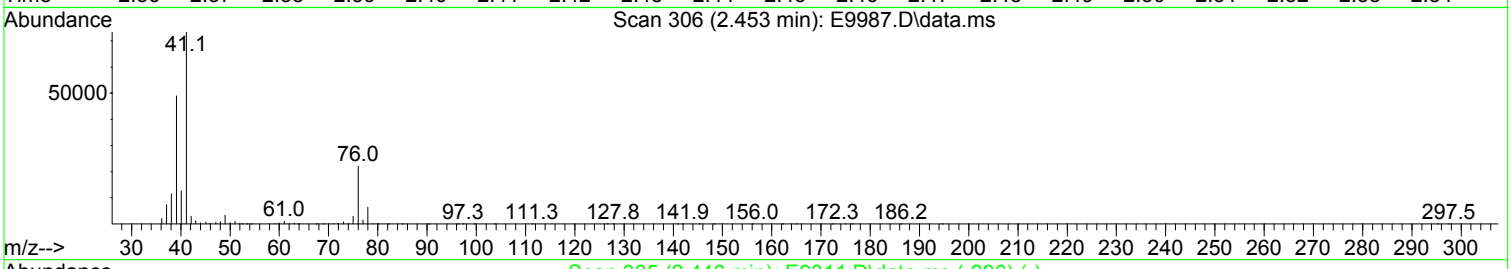
02/26/24

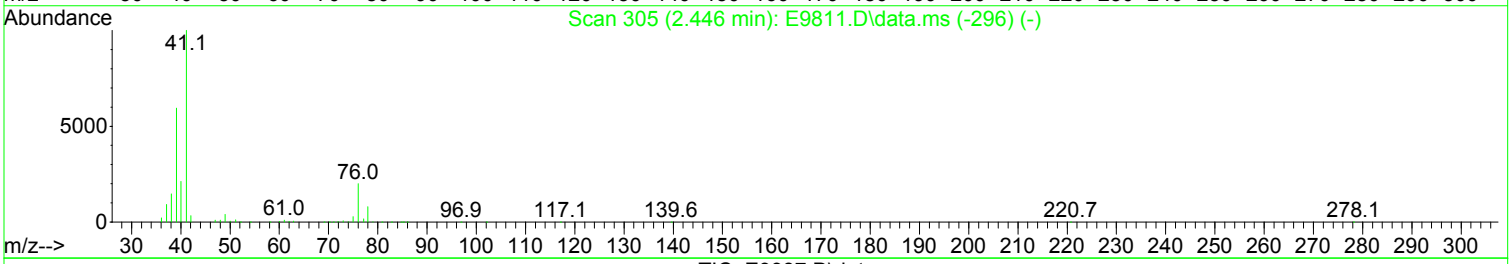
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : E9987.D
Acq On : 26 Feb 2024 11:36 am
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 26 12:01:07 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration







TIC: E9987.D\data.ms

(20) Acetonitrile

2.453min (+ 0.007) 221.89 ug/L

response 195182

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	21.20	17.13
39.10	59.50	66.82
0.00	0.00	0.00

Manual Integration:

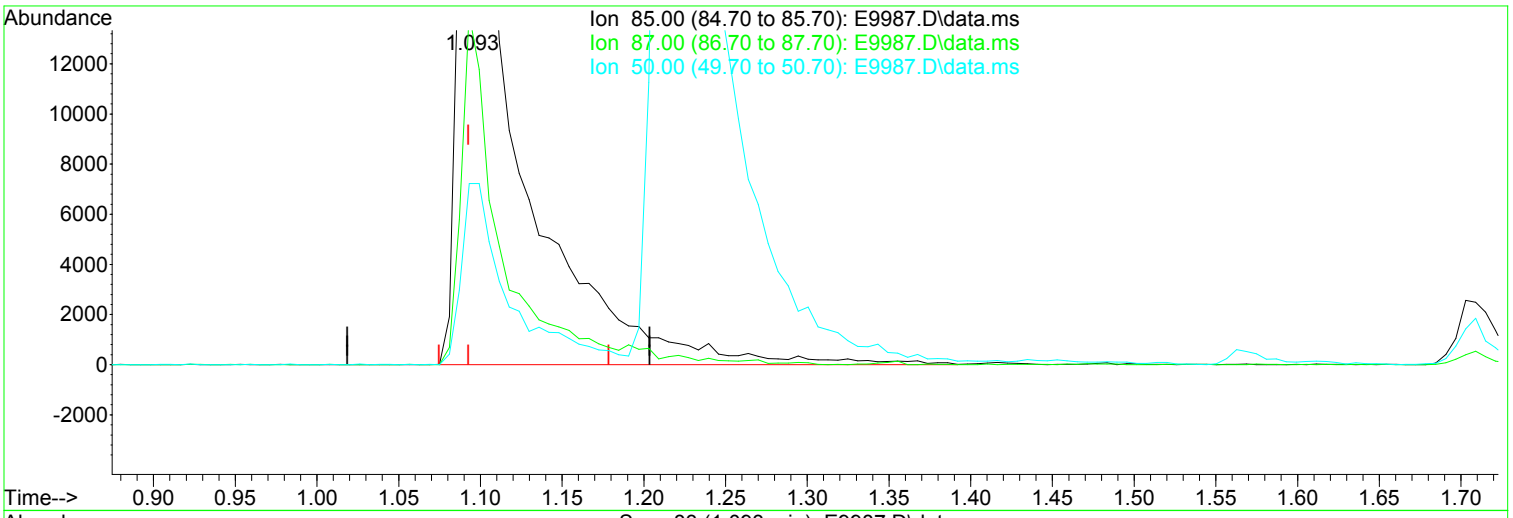
Before

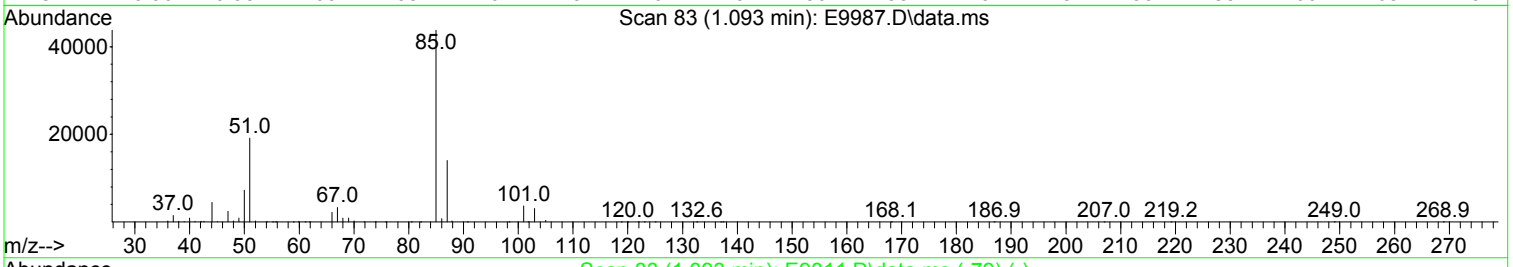
02/26/24

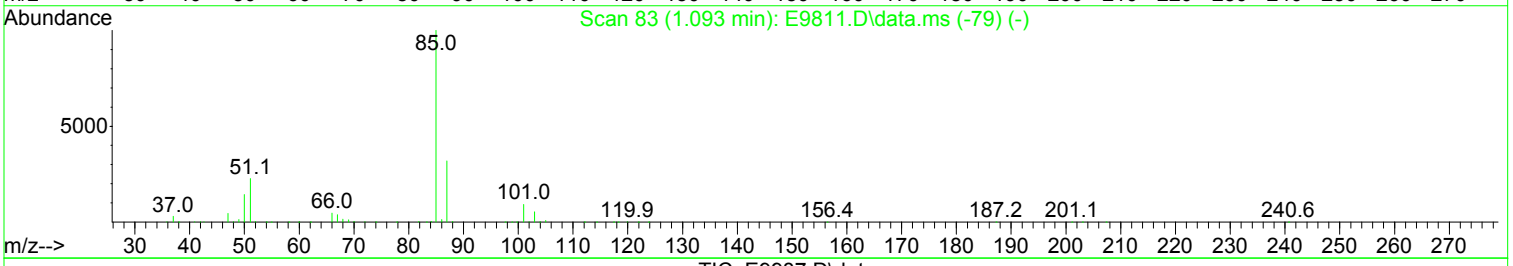
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : E9987.D
Acq On : 26 Feb 2024 11:36 am
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 26 12:01:07 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration







TIC: E9987.D\data.ms

(3) Dichlorodifluoromethane (P)

1.093min (+ 0.000) 12.72 ug/L m

response 75455

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.90	32.04
50.00	14.40	16.52
0.00	0.00	0.00

Manual Integration:

After

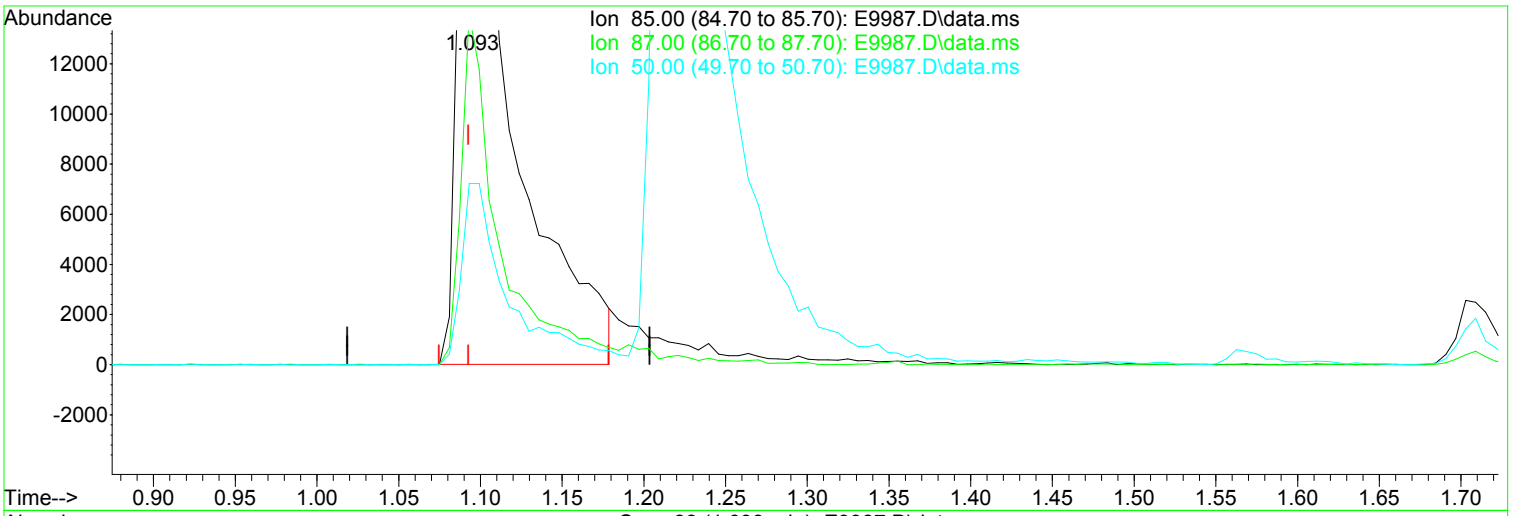
Poor integration.

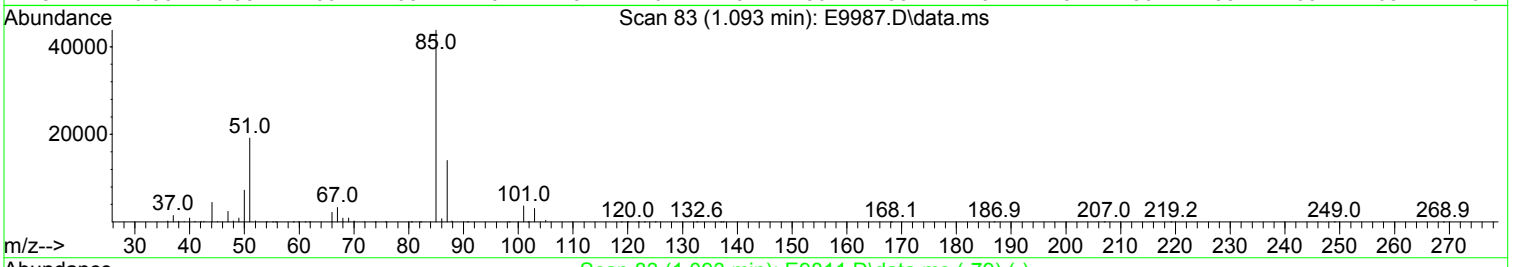
02/26/24

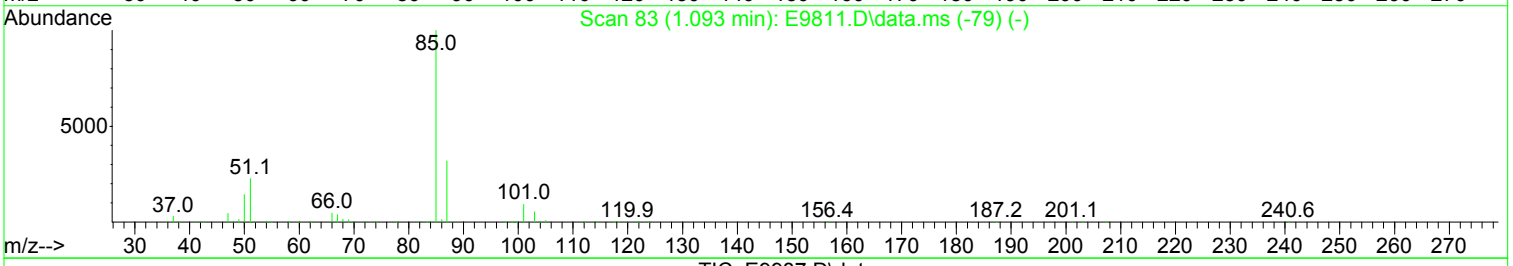
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : E9987.D
Acq On : 26 Feb 2024 11:36 am
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 26 12:01:07 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration







TIC: E9987.D\data.ms

(3) Dichlorodifluoromethane (P)

1.093min (+ 0.000) 11.71 ug/L

response 69462

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.90	32.04
50.00	14.40	16.52
0.00	0.00	0.00

Manual Integration:

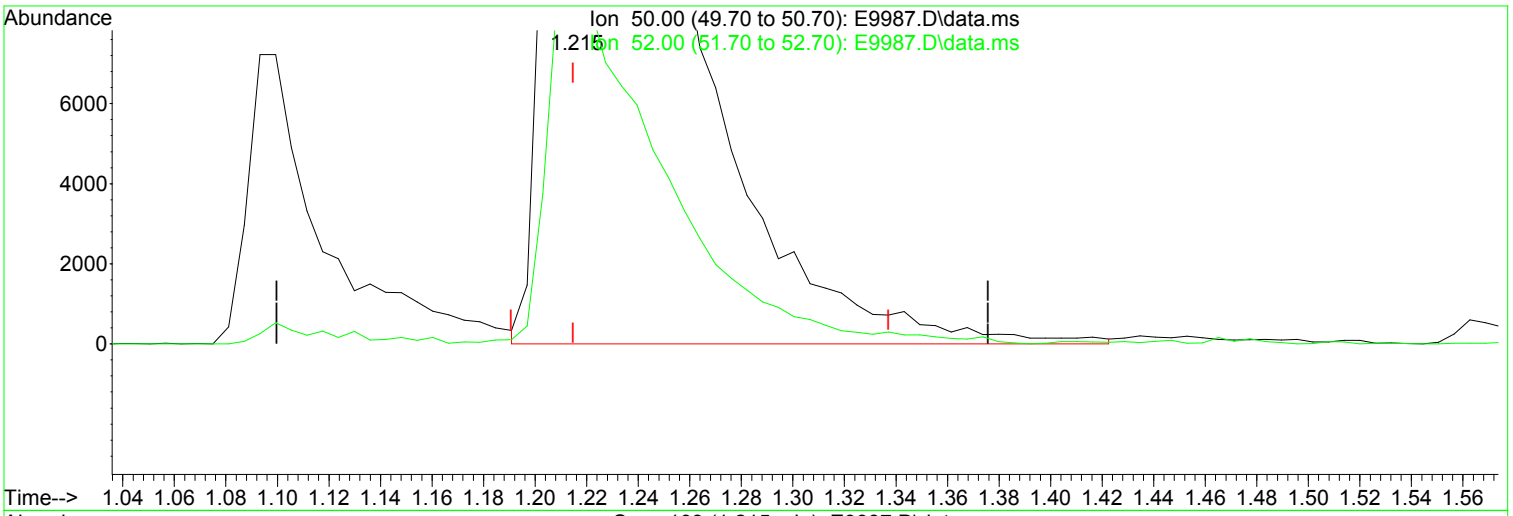
Before

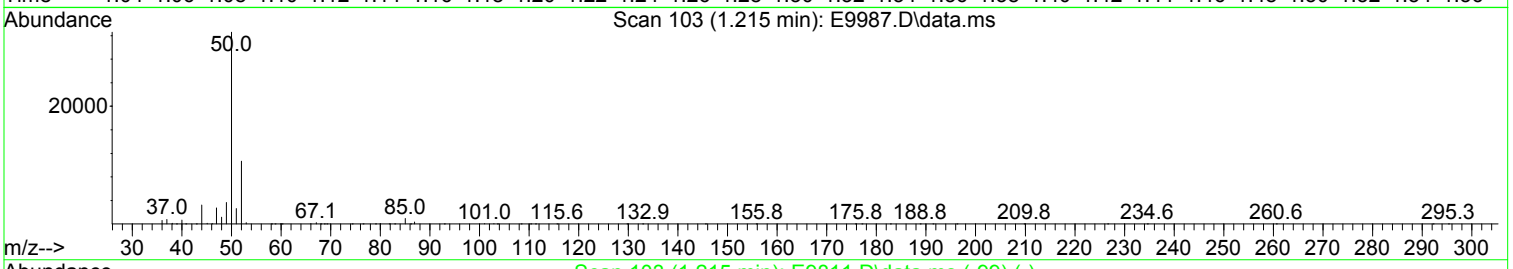
02/26/24

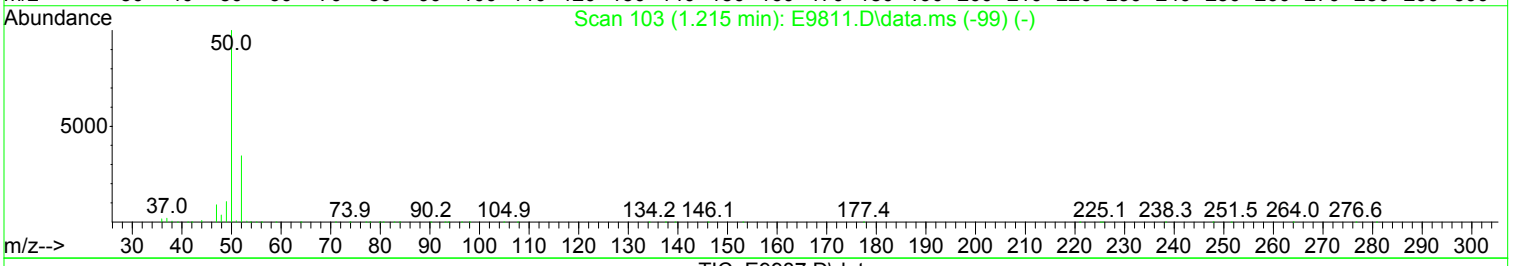
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : E9987.D
Acq On : 26 Feb 2024 11:36 am
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 26 12:01:07 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration







TIC: E9987.D\data.ms

(4) Chloromethane (P)

1.215min (+ 0.000) 19.15 ug/L m

response 88652

Ion	Exp%	Act%
50.00	100.00	100.00
52.00	34.00	32.81
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

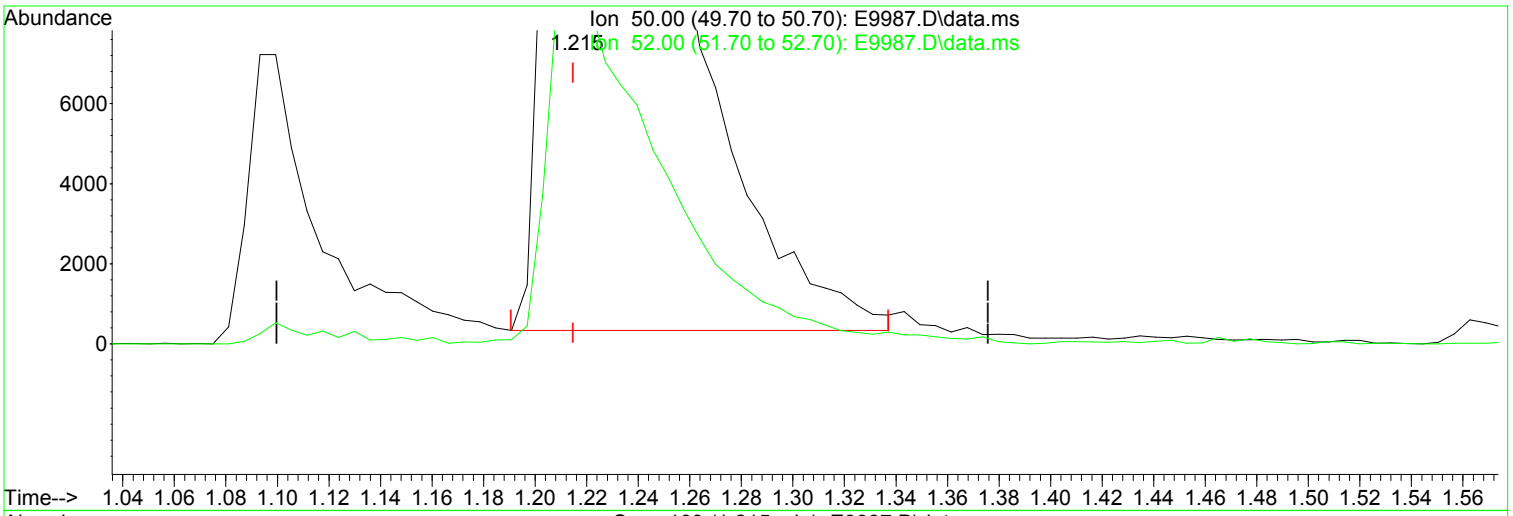
Poor integration.

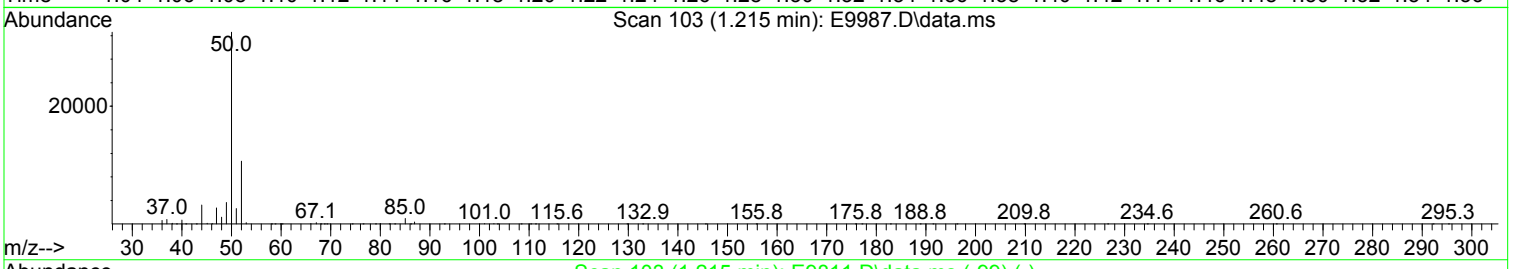
02/26/24

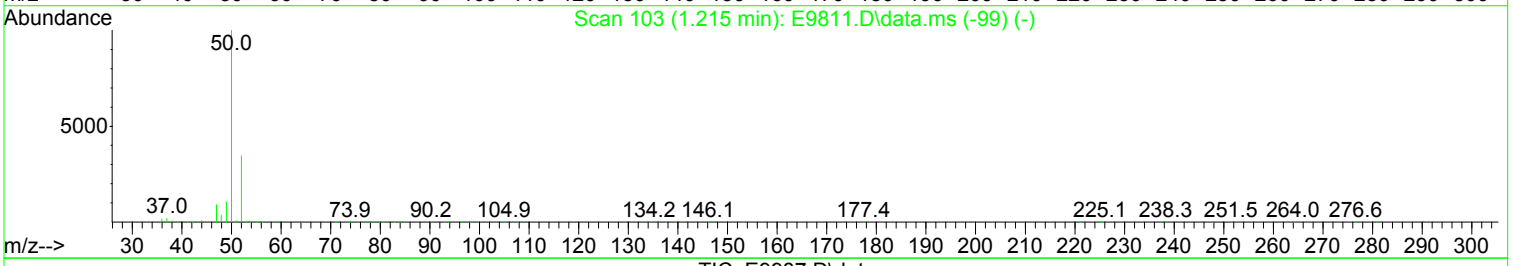
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : E9987.D
Acq On : 26 Feb 2024 11:36 am
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 26 12:01:07 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration







TIC: E9987.D\data.ms

(4) Chloromethane (P)

1.215min (+ 0.000) 18.18 ug/L

response 84177

Ion	Exp%	Act%
50.00	100.00	100.00
52.00	34.00	32.81
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

02/26/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : E9987.D
Acq On : 26 Feb 2024 11:36 am
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 26 12:01:07 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.080	168	465271	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.239	114	678649	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.616	117	605289	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	11.683	152	303645	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.916	113	226933	51.59	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 103.18%				
48) surr1,1,2-dichloroetha...	5.495	65	271846	51.53	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 103.06%				
65) SURR3,Toluene-d8	8.104	98	795093	50.18	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 100.36%				
70) SURR2,BFB	10.701	95	301622	49.74	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.48%				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.099	51	90388	20.657	ug/L		99
3) Dichlorodifluoromethane	1.093	85	75455m	12.725	ug/L		
4) Chloromethane	1.215	50	88652m	19.145	ug/L		
5) Vinyl Chloride	1.288	62	78009	16.524	ug/L		94
6) Bromomethane	1.496	94	50750	18.520	ug/L		96
7) Chloroethane	1.569	64	47233	15.009	ug/L		95
8) Freon 21	1.709	67	119651	17.541	ug/L		99
9) Trichlorofluoromethane	1.752	101	123354	18.935	ug/L		98
10) Diethyl Ether	1.971	59	72819	20.263	ug/L		96
11) Freon 123a	1.971	67	79766	20.281	ug/L		96
12) Freon 123	2.026	83	121856	24.195	ug/L		97
13) Acrolein	2.069	56	31045	33.266	ug/L		99
14) 1,1-Diclethene	2.142	96	67631	18.797	ug/L		98
15) Freon 113	2.154	101	70242	18.595	ug/L		87
16) Acetone	2.191	43	33771	15.517	ug/L		97
17) 2-Propanol	2.319	45	135775	362.751	ug/L		98
18) Iodomethane	2.264	142	113463	19.042	ug/L		100
19) Carbon Disulfide	2.319	76	179173	17.793	ug/L		99
20) Acetonitrile	2.447	41	91613m	104.147	ug/L		
21) Allyl Chloride	2.453	76	42058	20.899	ug/L	#	87
22) Methyl Acetate	2.477	43	77783	13.783	ug/L		96
23) Methylene Chloride	2.562	84	78940	20.987	ug/L		97
24) TBA	2.697	59	236588	364.554	ug/L		99
25) Acrylonitrile	2.806	53	195998	95.948	ug/L		96
26) Methyl-t-Butyl Ether	2.849	73	254269	20.508	ug/L		97
27) trans-1,2-Dichloroethene	2.837	96	74528	19.200	ug/L		95
28) 1,1-Diclethane	3.306	63	138118	20.266	ug/L		99
29) Vinyl Acetate	3.398	86	14090	24.831	ug/L	#	78
30) DIPE	3.422	45	258358	20.161	ug/L		99
31) 2-Chloro-1,3-Butadiene	3.416	53	130425	18.889	ug/L		97
32) ETBE	3.916	59	232567	18.524	ug/L		95
33) 2,2-Dichloropropane	4.080	77	121207	20.063	ug/L		99
34) cis-1,2-Dichloroethene	4.093	96	90081	20.903	ug/L		95
35) 2-Butanone	4.154	43	43803	15.603	ug/L		98
36) Propionitrile	4.233	54	78083	94.783	ug/L		100
37) Bromochloromethane	4.458	130	61497	20.881	ug/L		95
38) Methacrylonitrile	4.477	67	39065	19.607	ug/L		99
39) Tetrahydrofuran	4.562	42	31534	18.360	ug/L		94
40) Chloroform	4.629	83	142238	19.818	ug/L		97

1st FJ 02/26/24
2nd AM 02/28/24

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : E9987.D
Acq On : 26 Feb 2024 11:36 am
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 26 12:01:07 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-Trichloroethane	4.916	97	130316	20.219	ug/L	98
42) TAME	5.836	73	226147	20.043	ug/L	99
44) Cyclohexane	5.001	41	77711	20.285	ug/L	92
46) Carbontetrachloride	5.214	117	114715	19.931	ug/L	97
47) 1,1-Dichloropropene	5.233	75	94879	18.443	ug/L	99
49) Benzene	5.574	78	303403	21.280	ug/L	99
50) 1,2-Dichloroethane	5.629	62	125201	20.790	ug/L	98
51) Iso-Butyl Alcohol	5.635	43	81373	362.549	ug/L	94
52) n-Heptane	6.092	43	104859	17.823	ug/L	97
53) 1-Butanol	6.647	56	119857	899.434	ug/L	95
54) Trichloroethene	6.574	130	90893	20.485	ug/L	97
55) Methylcyclohexane	6.812	55	109913	19.802	ug/L	97
56) 1,2-Diclpropane	6.867	63	77444	20.326	ug/L	99
57) Dibromomethane	7.013	93	56674	20.958	ug/L	97
58) 1,4-Dioxane	7.092	88	23140	349.536	ug/L	85
59) Methyl Methacrylate	7.110	69	64265	20.722	ug/L	95
60) Bromodichloromethane	7.251	83	110799	21.035	ug/L	100
61) 2-Nitropropane	7.555	41	59438	39.401	ug/L	99
62) 2-Chloroethylvinyl Ether	7.677	63	1587	1.127	ug/L	100
63) cis-1,3-Dichloropropene	7.805	75	132329	21.583	ug/L	98
64) 4-Methyl-2-pentanone	8.025	43	99090	19.079	ug/L	98
66) Toluene	8.177	91	334518	21.089	ug/L	98
67) trans-1,3-Dichloropropene	8.458	75	125068	21.468	ug/L	98
68) Ethyl Methacrylate	8.610	69	116089	20.653	ug/L	98
69) 1,1,2-Trichloroethane	8.647	97	79274	20.510	ug/L	96
72) Tetrachloroethene	8.775	164	68330	19.362	ug/L	91
73) 2-Hexanone	8.958	43	69984	18.495	ug/L	98
74) 1,3-Dichloropropane	8.824	76	129005	20.526	ug/L	99
75) Dibromochloromethane	9.049	129	97230	21.311	ug/L	99
76) N-Butyl Acetate	9.116	43	144008	18.336	ug/L	99
77) 1,2-Dibromoethane	9.141	107	84989	20.494	ug/L	99
78) 3-Chlorobenzotrifluoride	9.671	180	123169	19.048	ug/L	95
79) Chlorobenzene	9.647	112	229973	20.533	ug/L	99
80) 4-Chlorobenzotrifluoride	9.726	180	111226	18.858	ug/L	98
81) 1,1,1,2-Tetrachloroethane	9.738	131	91569	21.228	ug/L	97
82) Ethylbenzene	9.768	106	119201	20.581	ug/L	99
83) (m+p)Xylene	9.884	106	293426	41.641	ug/L	100
84) o-Xylene	10.244	106	144727	20.883	ug/L	98
85) Styrene	10.256	104	254021	21.682	ug/L	97
86) Bromoform	10.409	173	67820	22.802	ug/L	99
87) 2-Chlorobenzotrifluoride	10.494	180	119167	19.558	ug/L	99
88) Isopropylbenzene	10.579	105	361248	19.961	ug/L	99
89) Cyclohexanone	10.652	55	68356	66.884	ug/L	100
90) trans-1,4-Dichloro-2-B...	10.902	53	32609	18.820	ug/L	91
92) 1,1,2,2-Tetrachloroethane	10.848	83	105735	19.728	ug/L	98
93) Bromobenzene	10.823	156	105224	20.977	ug/L	98
94) 1,2,3-Trichloropropane	10.878	110	38059	19.670	ug/L	100
95) n-Propylbenzene	10.939	91	414766	20.233	ug/L	100
96) 2-Chlorotoluene	11.000	91	263474	21.021	ug/L	99
97) 3-Chlorotoluene	11.055	91	265856	20.088	ug/L	99
98) 4-Chlorotoluene	11.091	91	312608	20.913	ug/L	96
99) 1,3,5-Trimethylbenzene	11.091	105	313665	20.439	ug/L	97
100) tert-Butylbenzene	11.366	119	273861	20.342	ug/L	99
101) 1,2,4-Trimethylbenzene	11.402	105	318205	21.024	ug/L	98
102) 3,4-Dichlorobenzotrifl...	11.469	214	96047	20.311	ug/L	94
103) sec-Butylbenzene	11.549	105	376976	19.881	ug/L	99

1st FJ 02/26/24
2nd AM 02/28/24

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : E9987.D
Acq On : 26 Feb 2024 11:36 am
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 26 12:01:07 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) p-Isopropyltoluene	11.671	119	339295	20.405	ug/L	96
105) 1,3-Dclbenz	11.628	146	197244	21.133	ug/L	97
106) 1,4-Dclbenz	11.701	146	199563	20.907	ug/L	97
107) 2,4-Dichlorobenzotrifl...	11.762	214	84658	19.054	ug/L	98
108) 2,5-Dichlorobenzotrifl...	11.805	214	95497	19.892	ug/L	99
109) n-Butylbenzene	12.006	91	288167	20.568	ug/L	99
110) 1,2-Dclbenz	12.006	146	192342	21.265	ug/L	98
111) 1,2-Dibromo-3-chloropr...	12.634	157	26719	19.626	ug/L	96
112) Trielution Dichlorotol...	12.750	125	493713	60.815	ug/L	99
113) 1,3,5-Trichlorobenzene	12.798	180	132274	19.974	ug/L	97
114) Coelution Dichlorotoluene	13.079	125	347735	40.738	ug/L	100
115) 1,2,4-Tcbenzene	13.286	180	128424	20.836	ug/L	97
116) Hexachlorobt	13.426	225	61069	19.882	ug/L	99
117) Naphthalen	13.475	128	335320	20.403	ug/L	100
118) 1,2,3-Tclbenzene	13.664	180	122510	21.290	ug/L	97
119) 2,4,5-Trichlorotoluene	14.249	159	87349	20.045	ug/L	98
120) 2,3,6-Trichlorotoluene	14.335	159	84601	20.691	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : E9987.D
Acq On : 26 Feb 2024 11:36 am
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 7 Sample Multiplier: 1

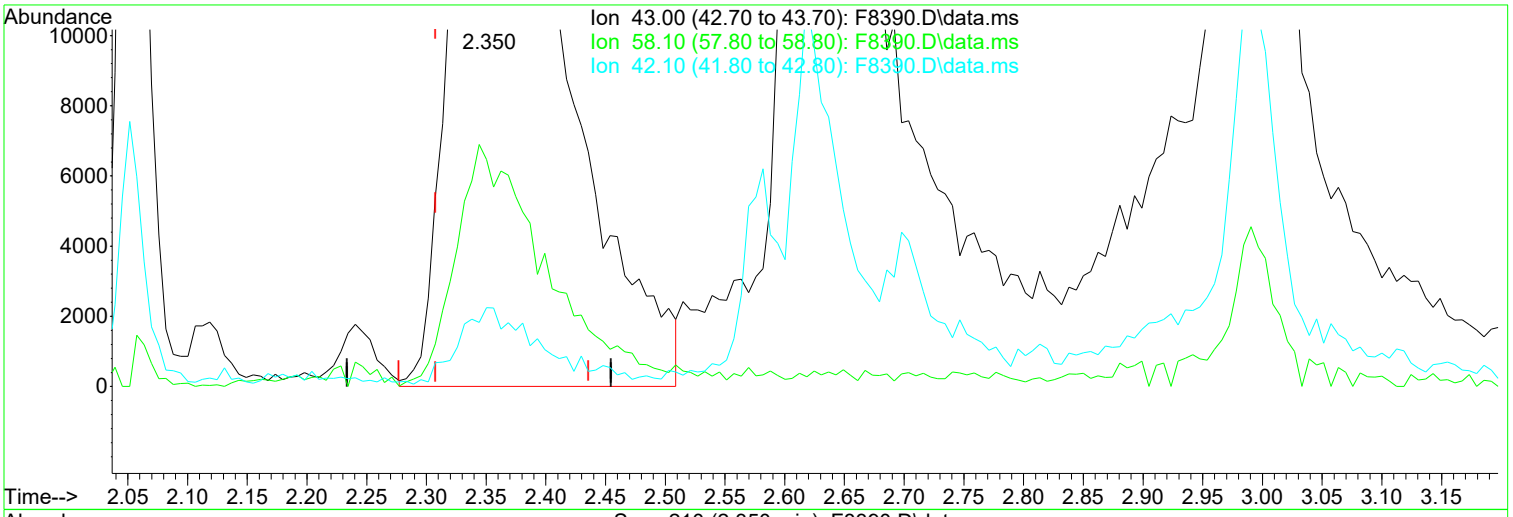
Quant Time: Feb 26 12:01:07 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration

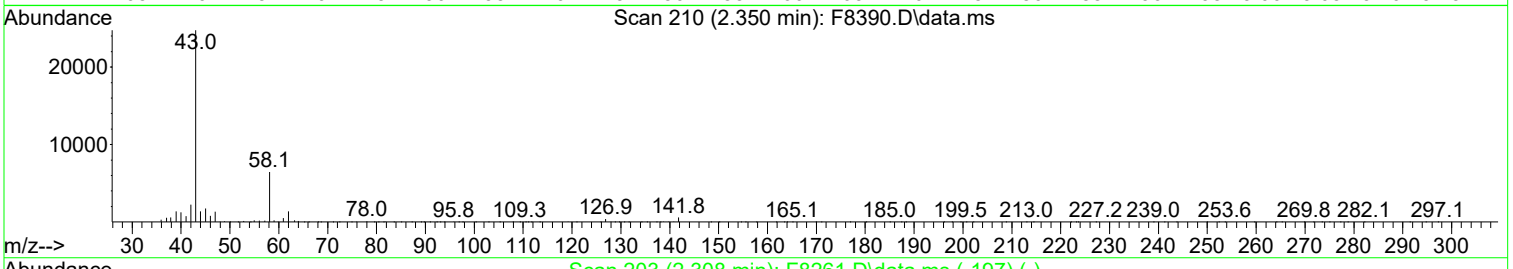
1st FJ 02/26/24
2nd AM 02/28/24

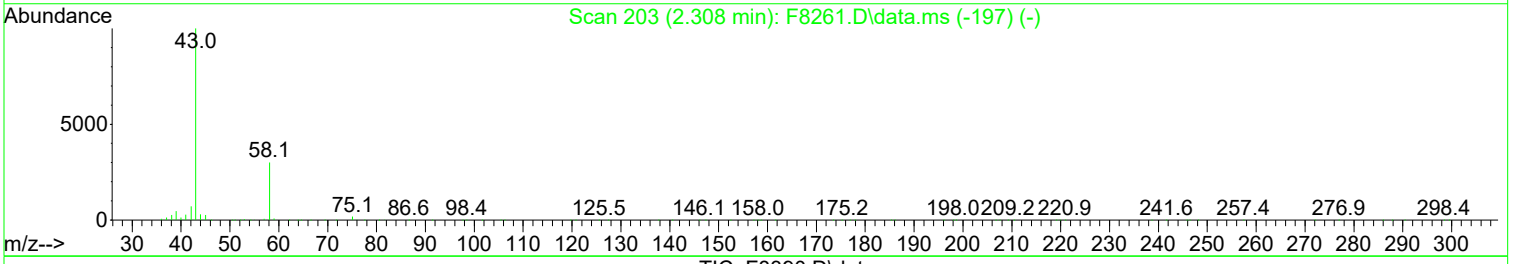
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8390.D
Acq On : 23 Feb 2024 08:54 pm
Operator : F.NAEGLER
Sample : R2401280-018MS
Misc : CEC 25499 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 25 12:24:52 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8390.D\data.ms

(16) Acetone (P)

2.350min (+ 0.043) 52.69 ug/L m

response 135140

Ion	Exp%	Act%
43.00	100.00	100.00
58.10	30.00	26.11
42.10	7.20	9.08
0.00	0.00	0.00

Manual Integration:

After

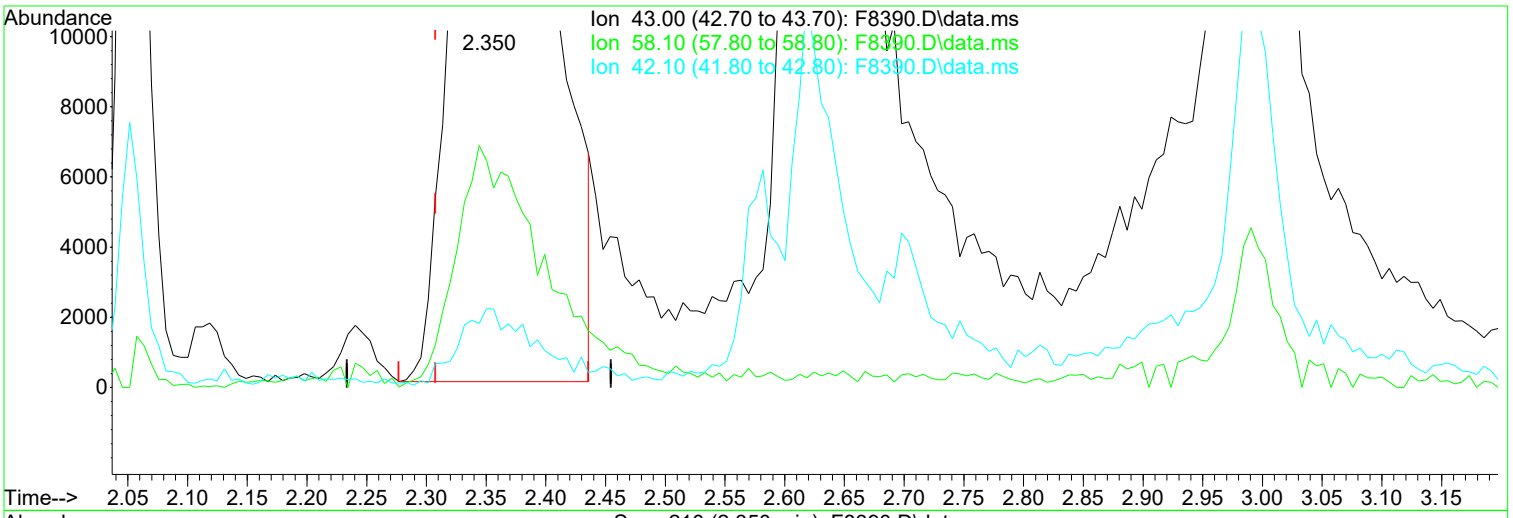
Poor integration.

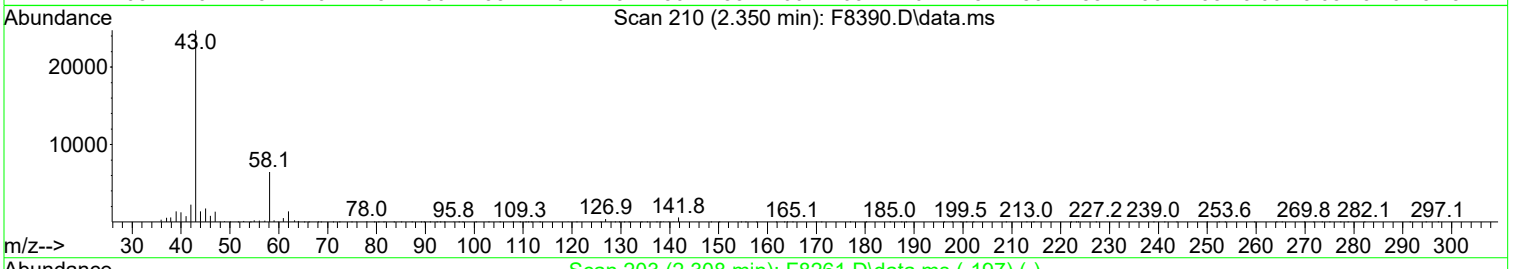
02/26/24

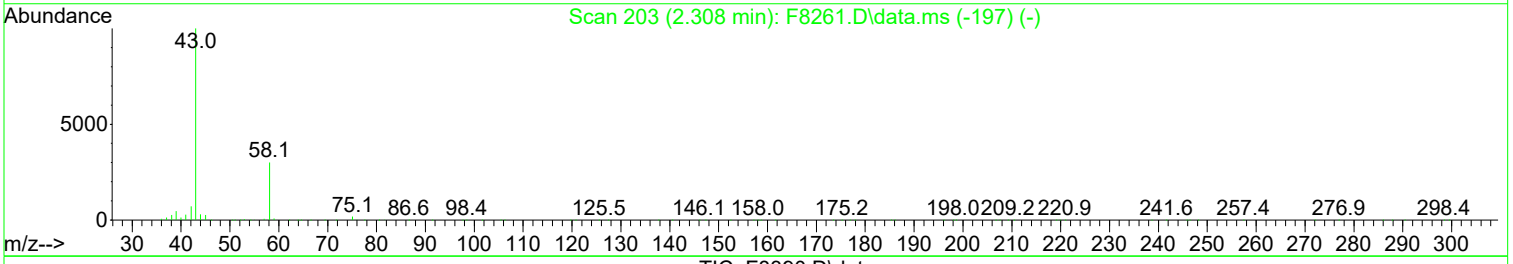
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8390.D
Acq On : 23 Feb 2024 08:54 pm
Operator : F.NAEGLER
Sample : R2401280-018MS
Misc : CEC 25499 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 25 12:24:52 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8390.D\data.ms

(16) Acetone (P) **Manual Integration:**

2.350min (+ 0.043) 46.58 ug/L **Before**

response 119482

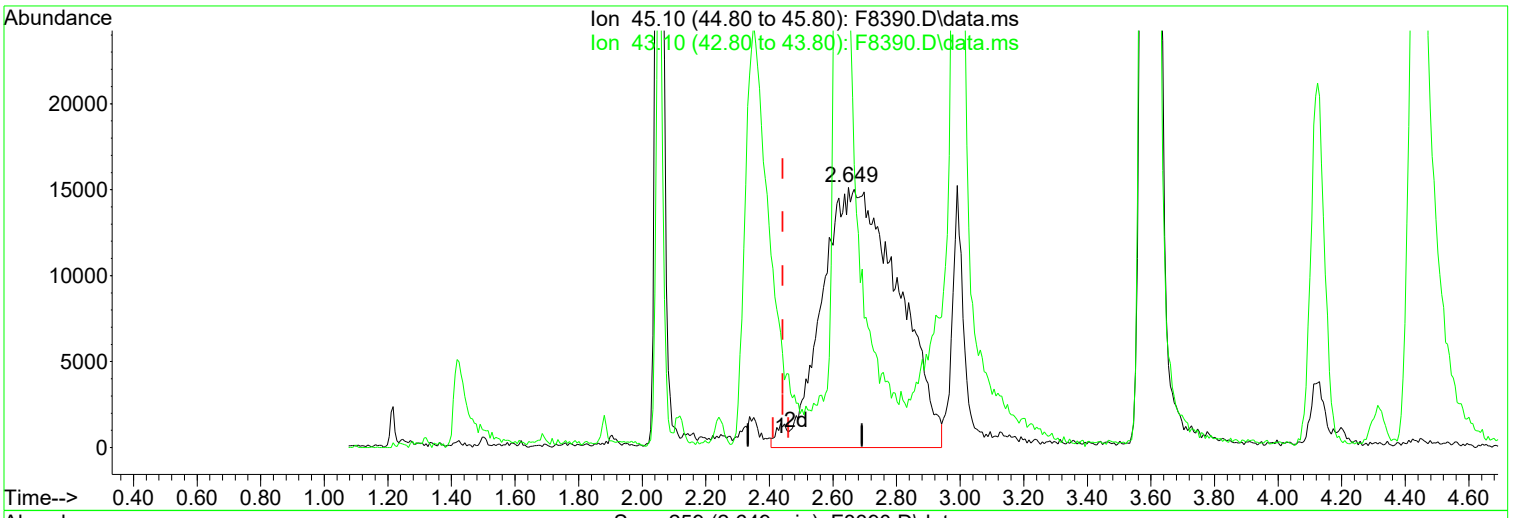
Ion	Exp%	Act%
43.00	100.00	100.00
58.10	30.00	26.11
42.10	7.20	9.08
0.00	0.00	0.00

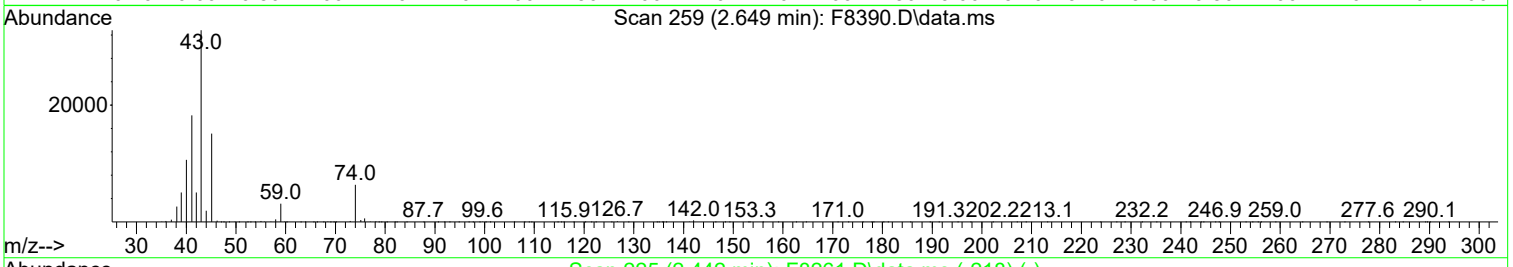
02/26/24

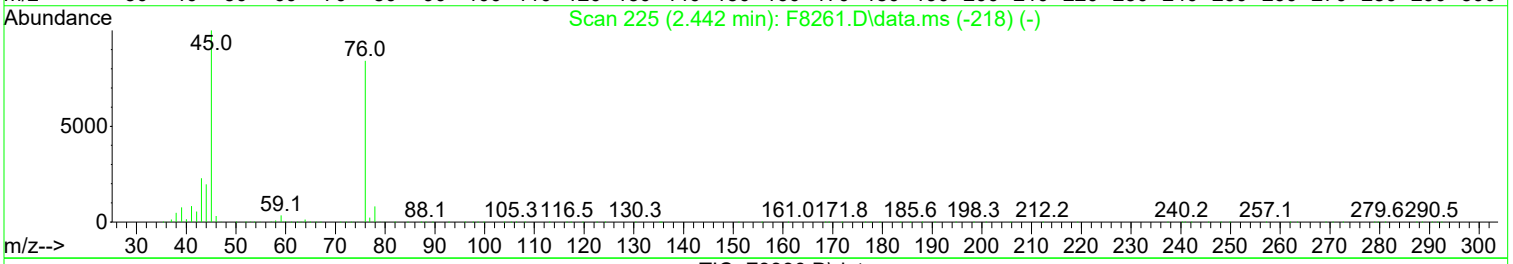
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8390.D
Acq On : 23 Feb 2024 08:54 pm
Operator : F.NAEGLER
Sample : R2401280-018MS
Misc : CEC 25499 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 25 12:24:52 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8390.D\data.ms

(17) 2-Propanol

2.649min (+ 0.207) 616.36 ug/L m

response 254164

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	23.00	216.77#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

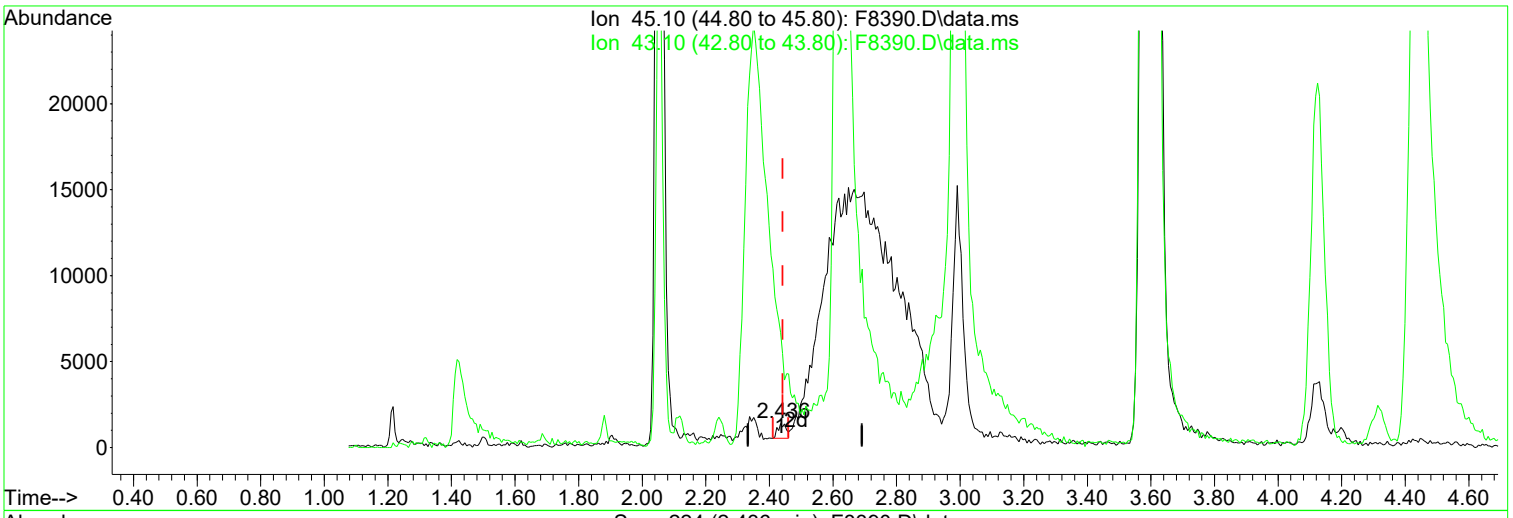
Poor integration.

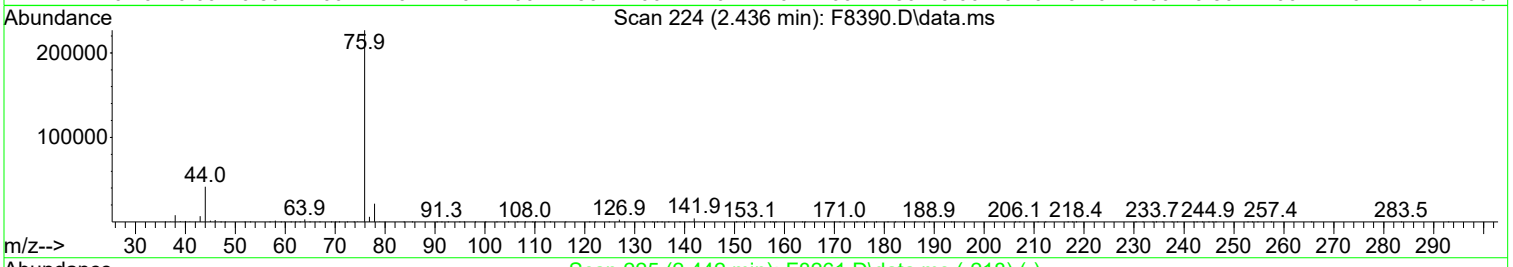
02/26/24

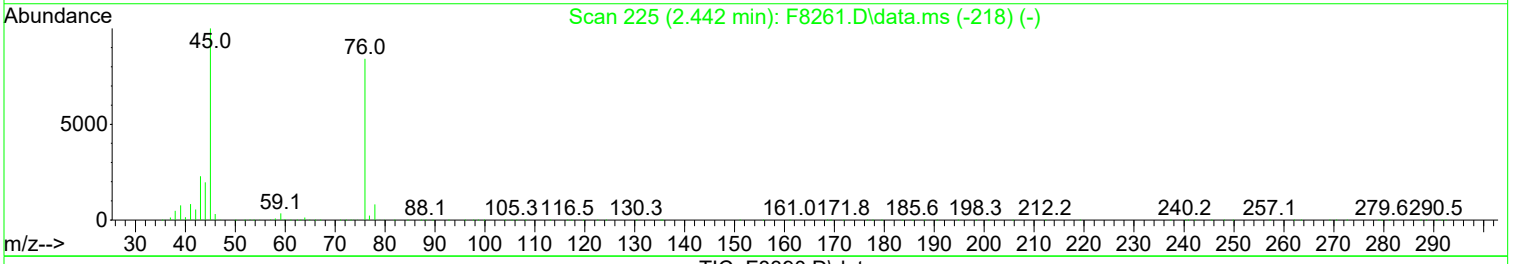
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8390.D
Acq On : 23 Feb 2024 08:54 pm
Operator : F.NAEGLER
Sample : R2401280-018MS
Misc : CEC 25499 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 25 12:24:52 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8390.D\data.ms

(17) 2-Propanol

2.436min (-0.006) 3.82 ug/L

response 1576

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	23.00	478.18#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

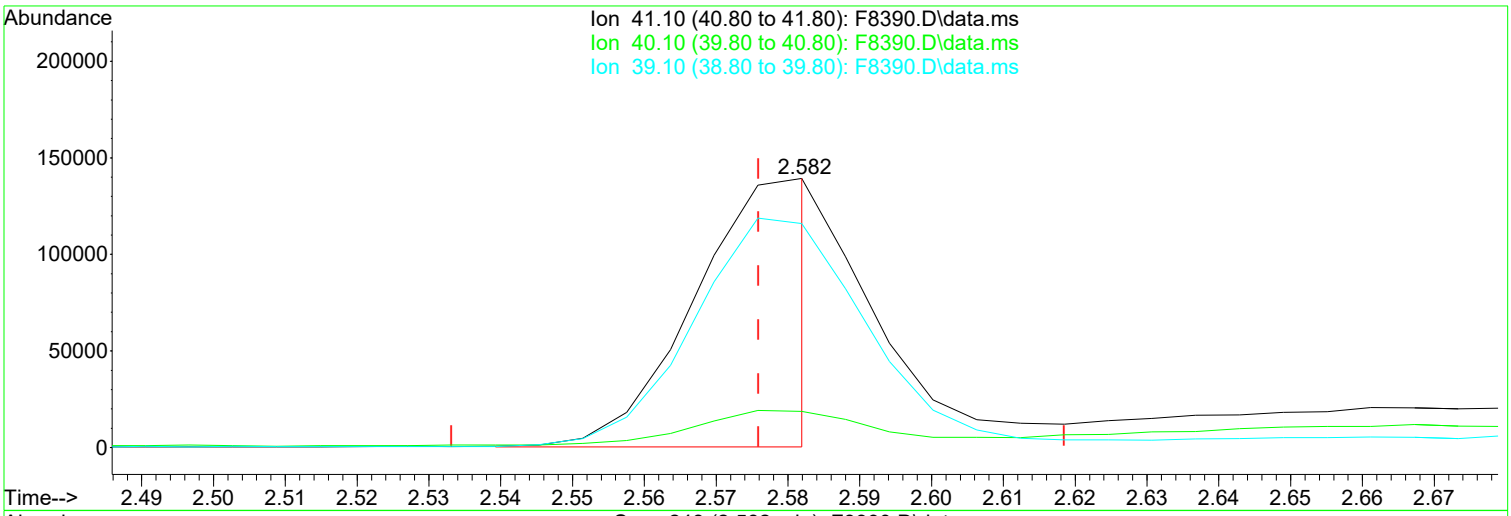
Before

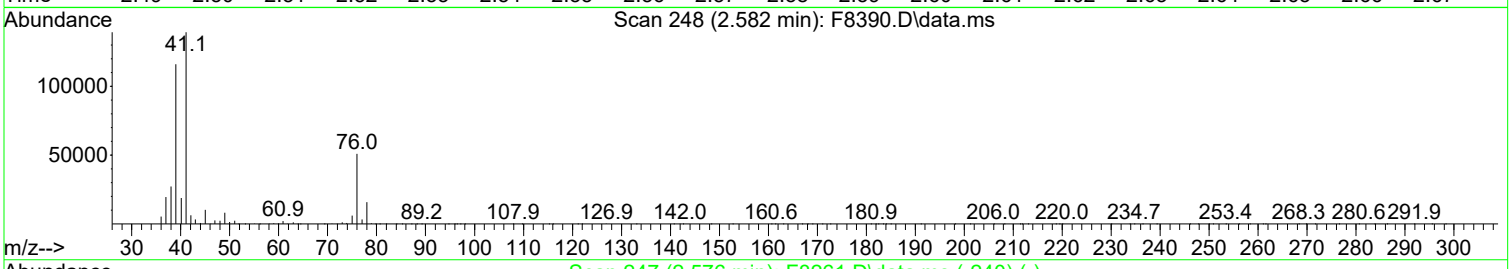
02/26/24

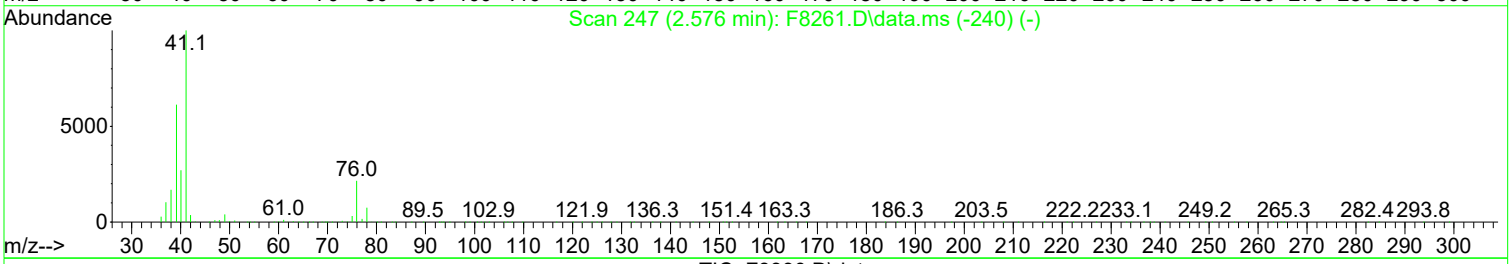
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8390.D
Acq On : 23 Feb 2024 08:54 pm
Operator : F.NAEGLER
Sample : R2401280-018MS
Misc : CEC 25499 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 25 12:24:52 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8390.D\data.ms

(20) Acetonitrile

2.582min (+ 0.006) 149.57 ug/L m

response 163834

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	27.60	13.48
39.10	61.30	83.32#
0.00	0.00	0.00

Manual Integration:

After

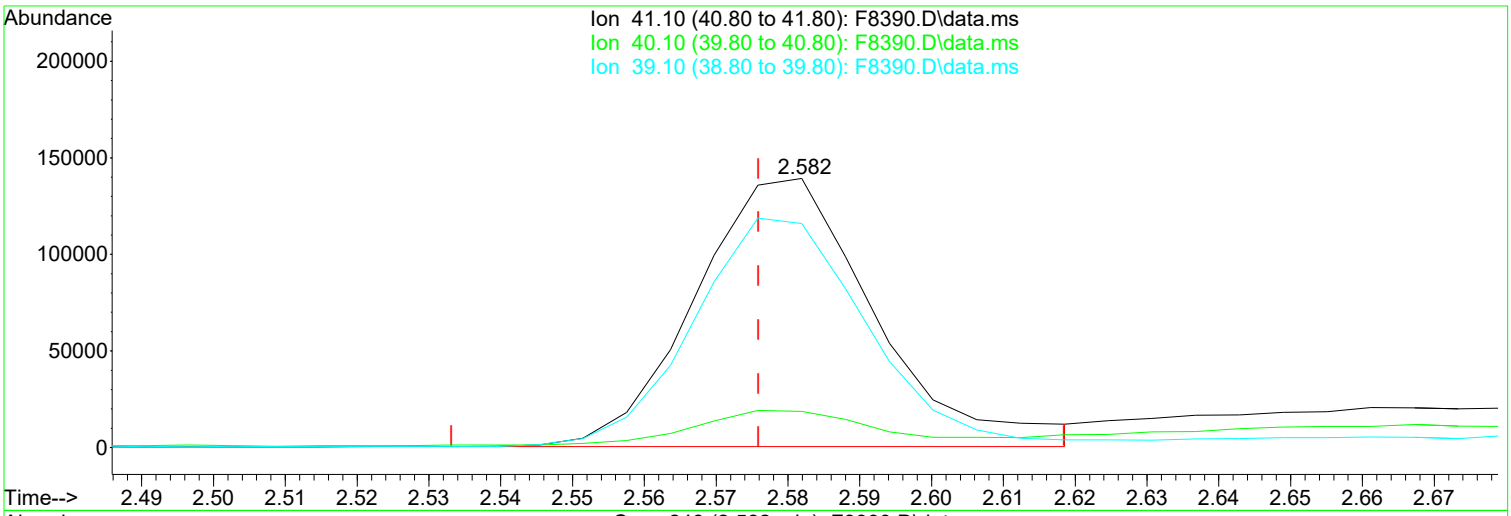
Poor integration.

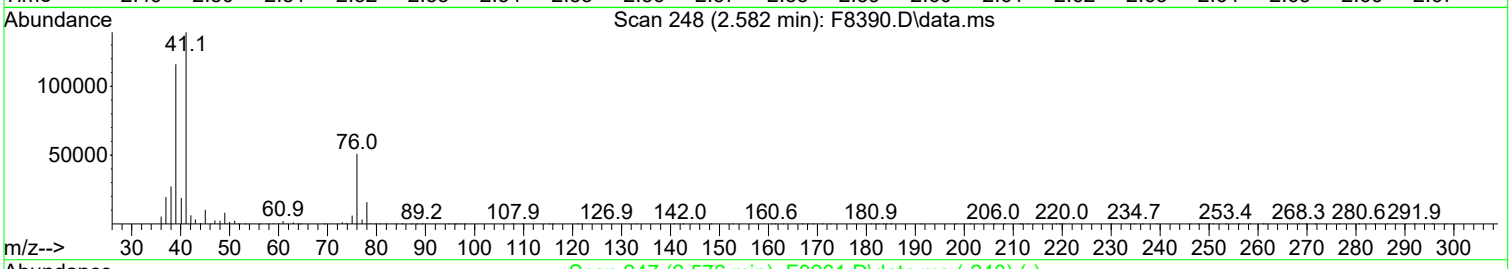
02/26/24

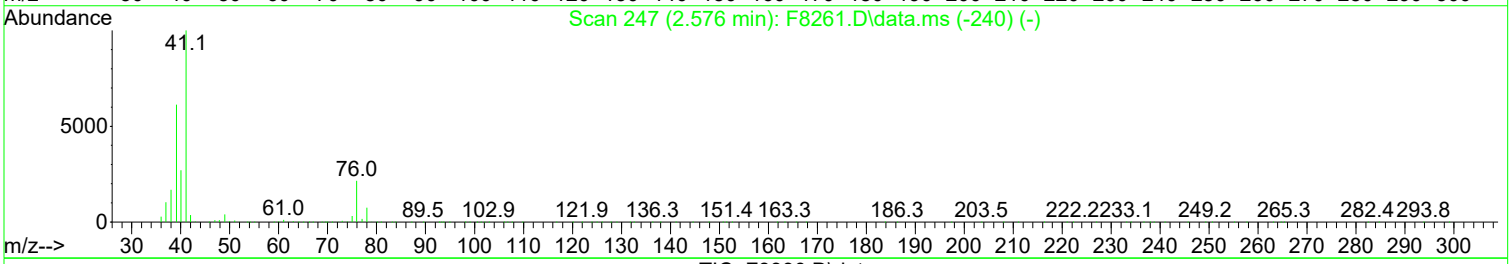
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8390.D
Acq On : 23 Feb 2024 08:54 pm
Operator : F.NAEGLER
Sample : R2401280-018MS
Misc : CEC 25499 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 25 12:24:52 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8390.D\data.ms

(20) Acetonitrile

2.582min (+ 0.006) 220.16 ug/L

response 241145

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	27.60	13.48
39.10	61.30	83.32#
0.00	0.00	0.00

Manual Integration:

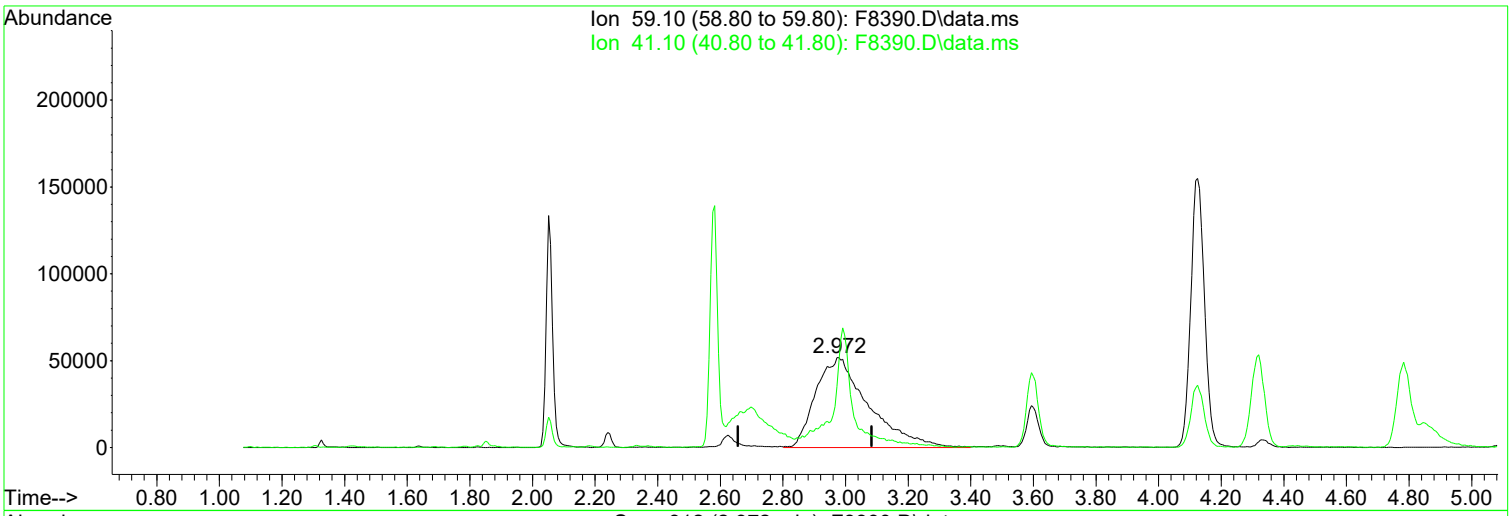
Before

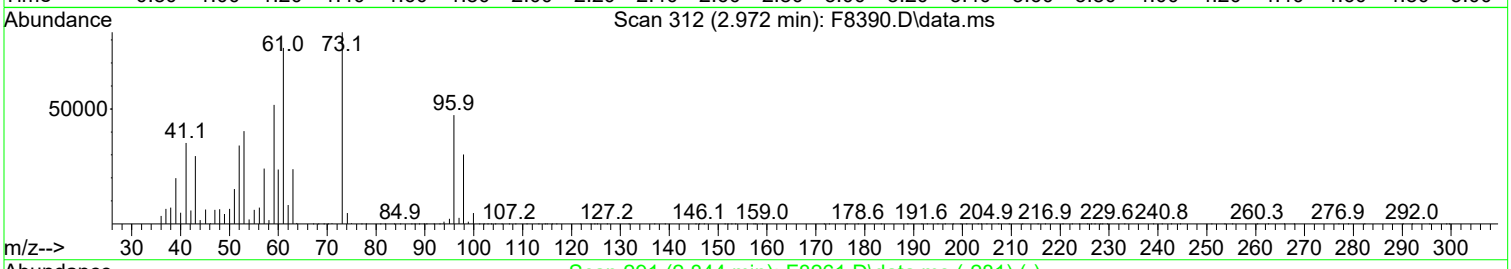
02/26/24

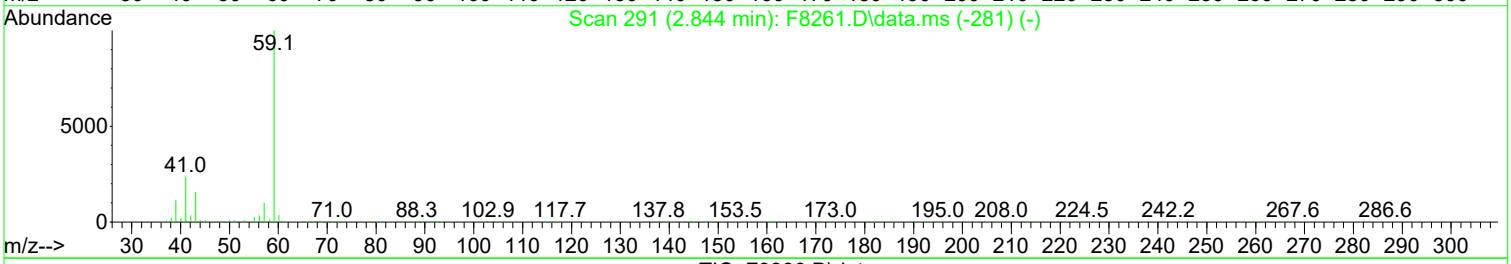
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8390.D
Acq On : 23 Feb 2024 08:54 pm
Operator : F.NAEGLER
Sample : R2401280-018MS
Misc : CEC 25499 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 25 12:24:52 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8390.D\data.ms

(24) TBA

2.972min (+ 0.128) 844.79 ug/L m

response 606322

Ion	Exp%	Act%
59.10	100.00	100.00
41.10	23.60	67.92#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

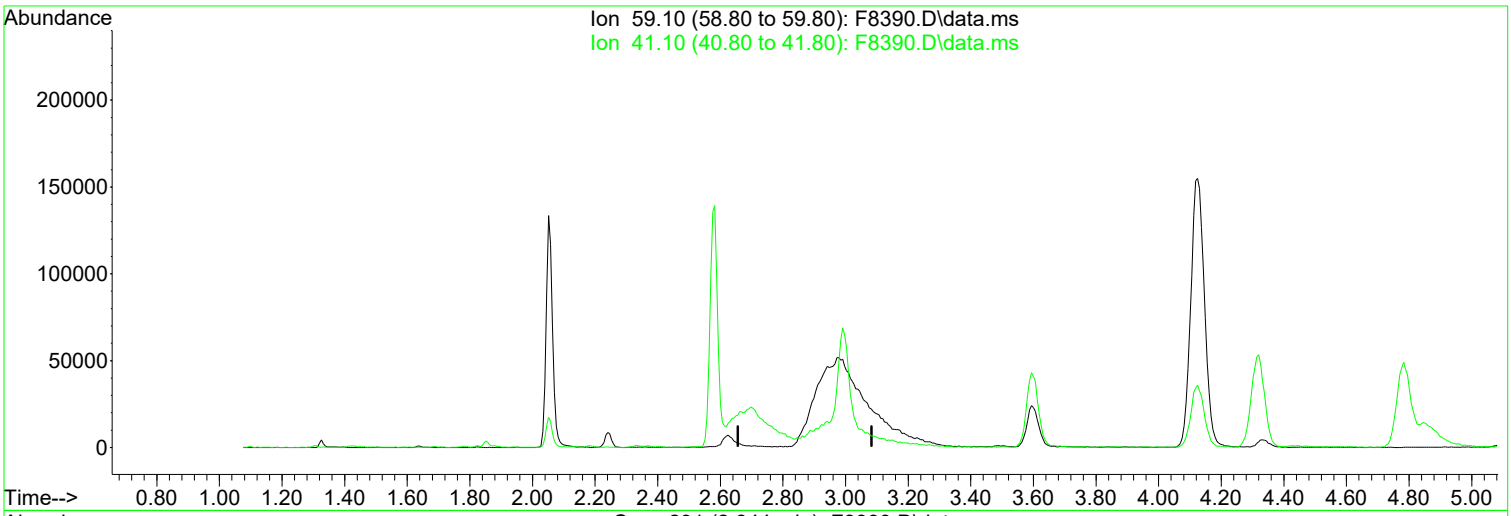
Peak not found.

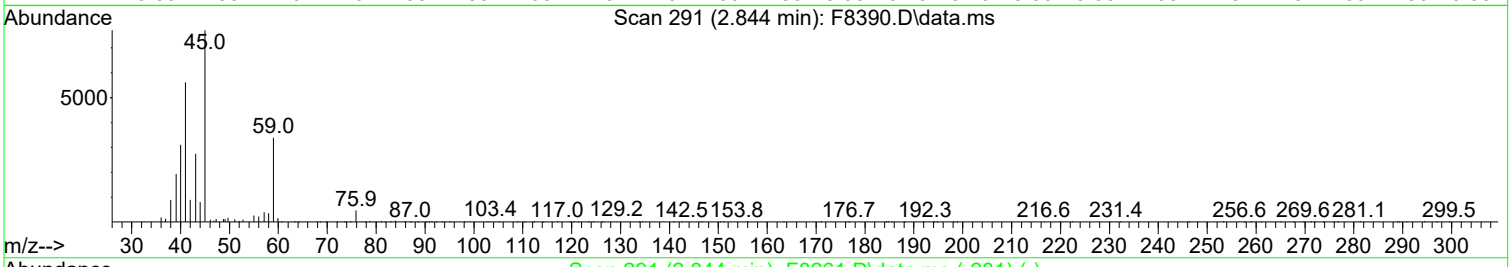
02/26/24

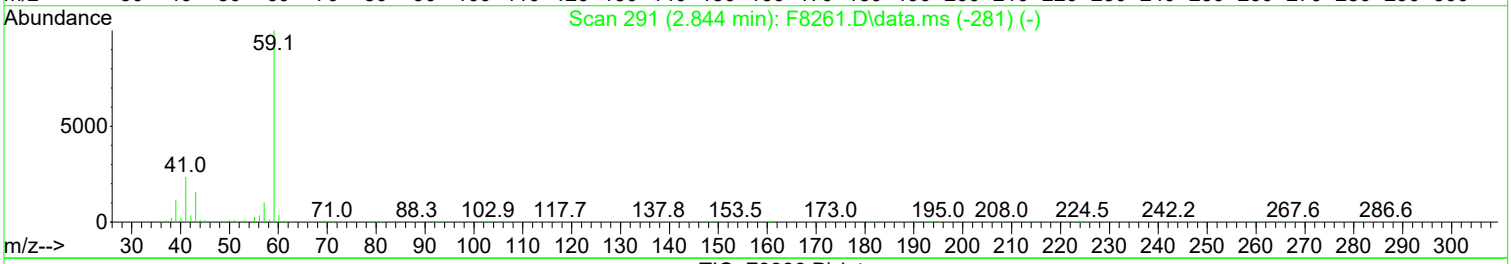
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8390.D
Acq On : 23 Feb 2024 08:54 pm
Operator : F.NAEGLER
Sample : R2401280-018MS
Misc : CEC 25499 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 25 12:24:52 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8390.D\data.ms

(24) TBA

2.844min (-2.844) 0.00 ug/L

response 0

Ion	Exp%	Act%
59.10	100.00	0.00
41.10	23.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

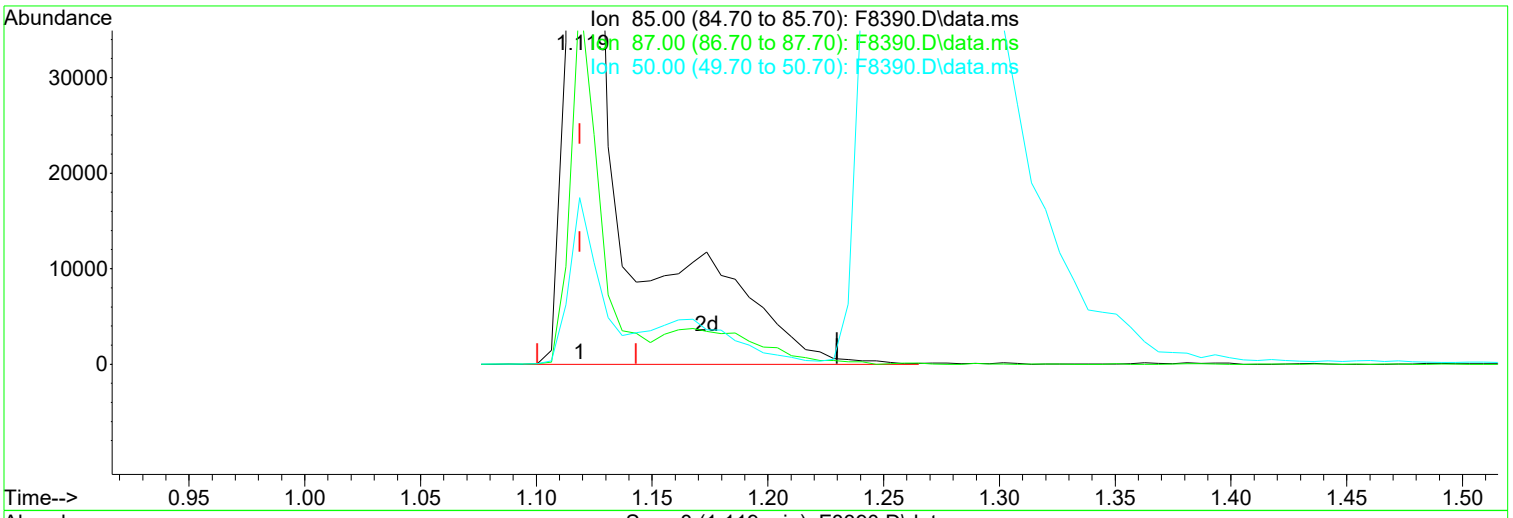
Before

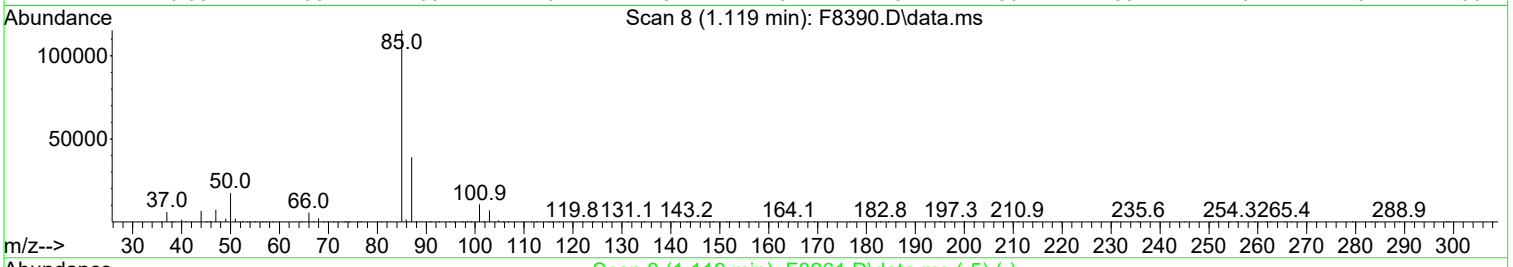
02/26/24

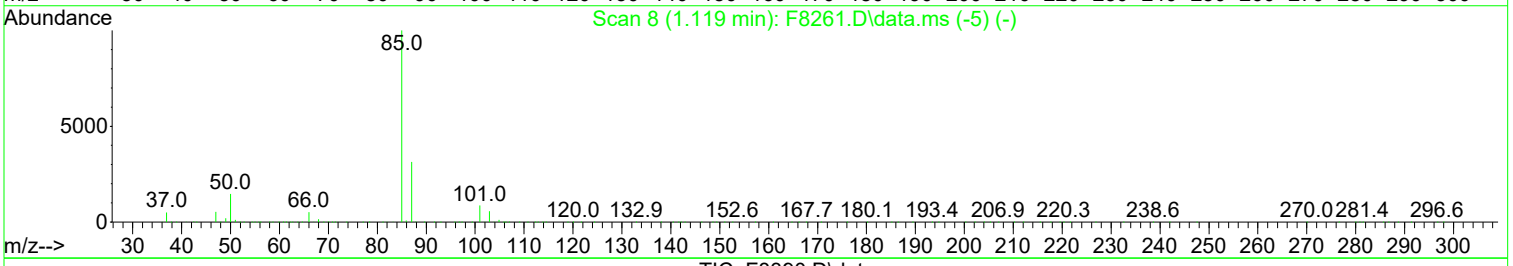
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8390.D
Acq On : 23 Feb 2024 08:54 pm
Operator : F.NAEGLER
Sample : R2401280-018MS
Misc : CEC 25499 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 25 12:24:52 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8390.D\data.ms

(3) Dichlorodifluoromethane (P)

1.119min (-0.000) 29.47 ug/L m

response 133275

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.30	33.80
50.00	14.60	15.11
0.00	0.00	0.00

Manual Integration:

After

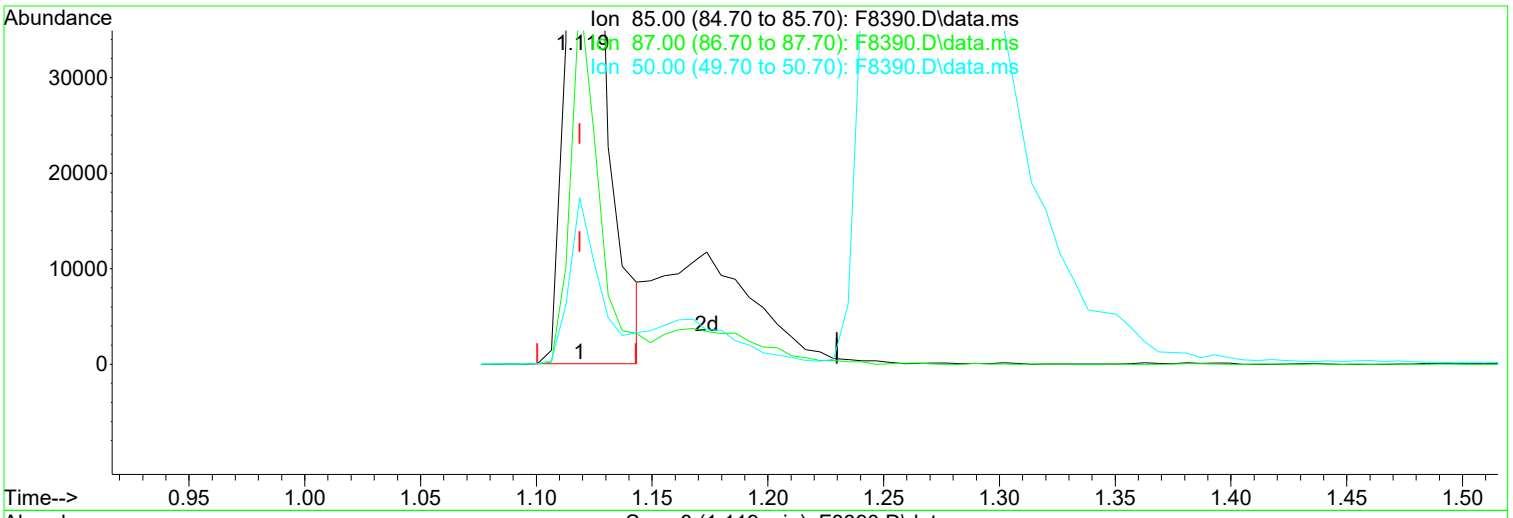
Poor integration.

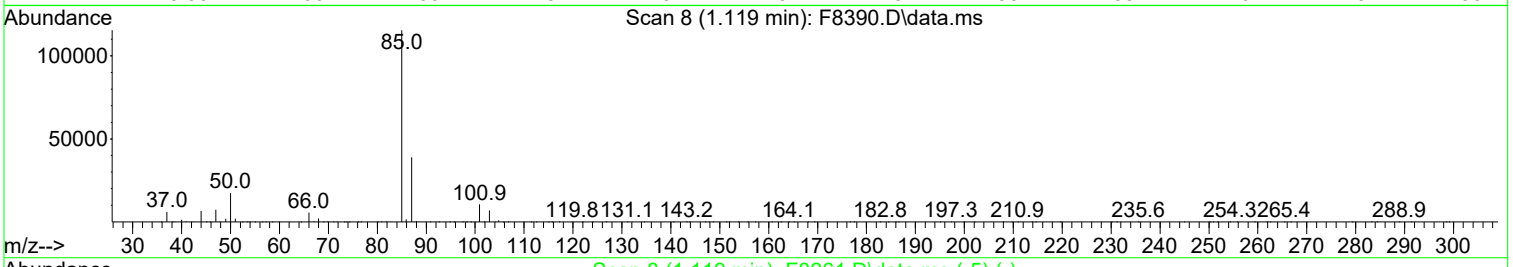
02/26/24

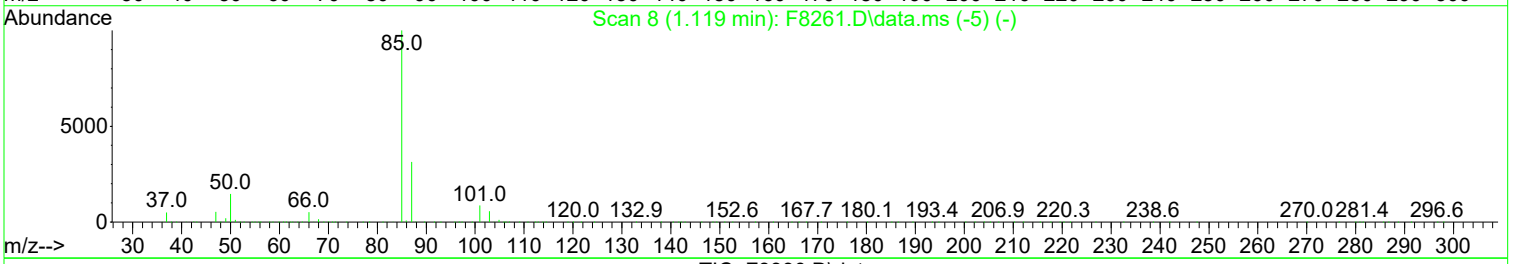
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8390.D
Acq On : 23 Feb 2024 08:54 pm
Operator : F.NAEGLER
Sample : R2401280-018MS
Misc : CEC 25499 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 25 12:24:52 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8390.D\data.ms

(3) Dichlorodifluoromethane (P)

1.119min (-0.000) 21.91 ug/L

response 99082

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.30	33.80
50.00	14.60	15.11
0.00	0.00	0.00

Manual Integration:

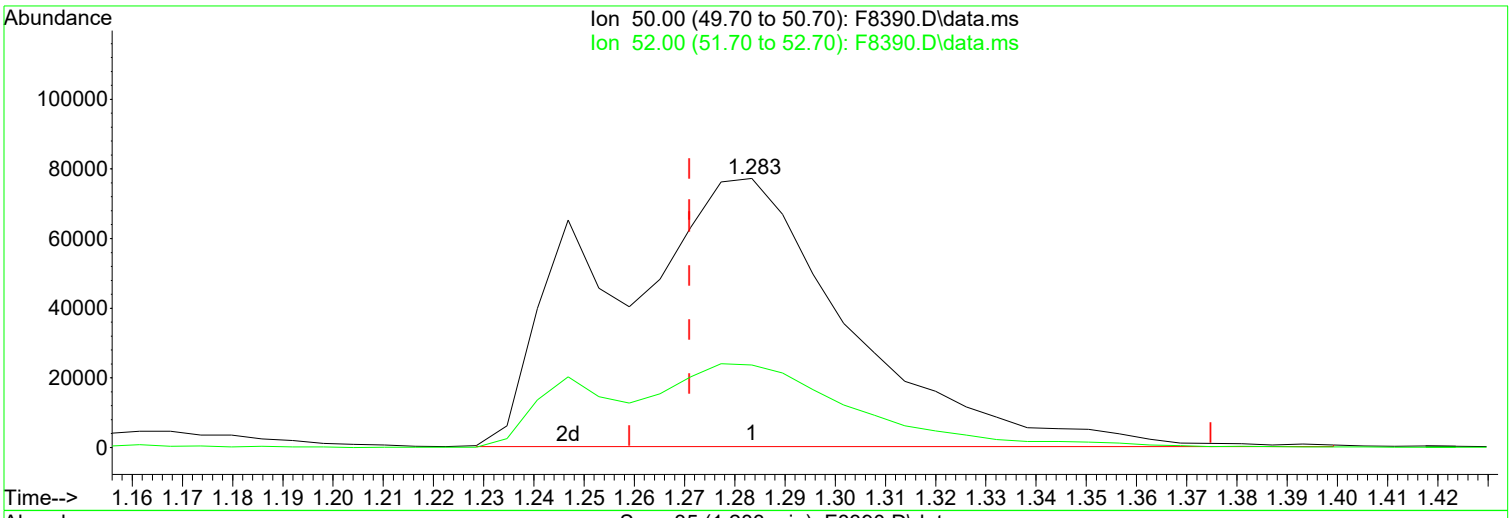
Before

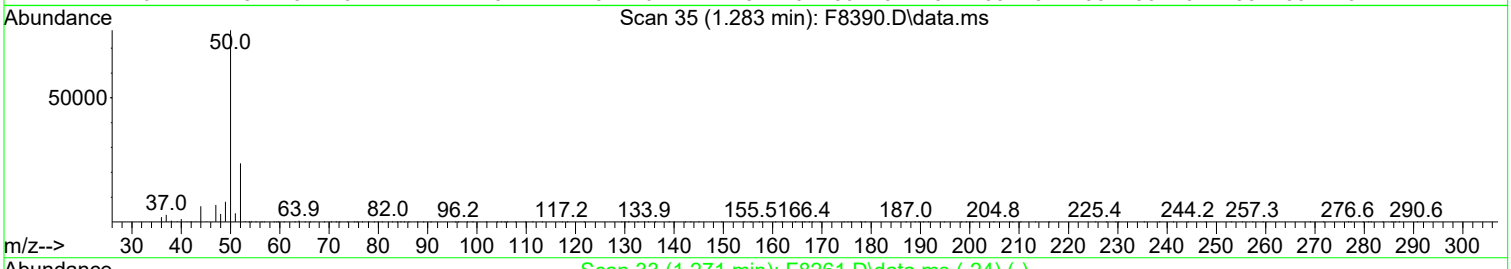
02/26/24

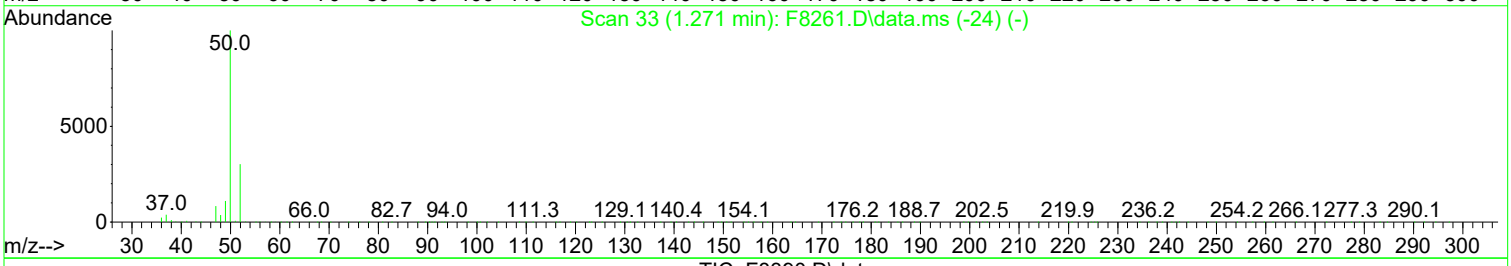
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8390.D
Acq On : 23 Feb 2024 08:54 pm
Operator : F.NAEGLER
Sample : R2401280-018MS
Misc : CEC 25499 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 25 12:24:52 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8390.D\data.ms

(4) Chloromethane (P)

1.283min (+ 0.012) 57.72 ug/L m

response 262624

Ion	Exp%	Act%
50.00	100.00	100.00
52.00	30.30	30.65
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

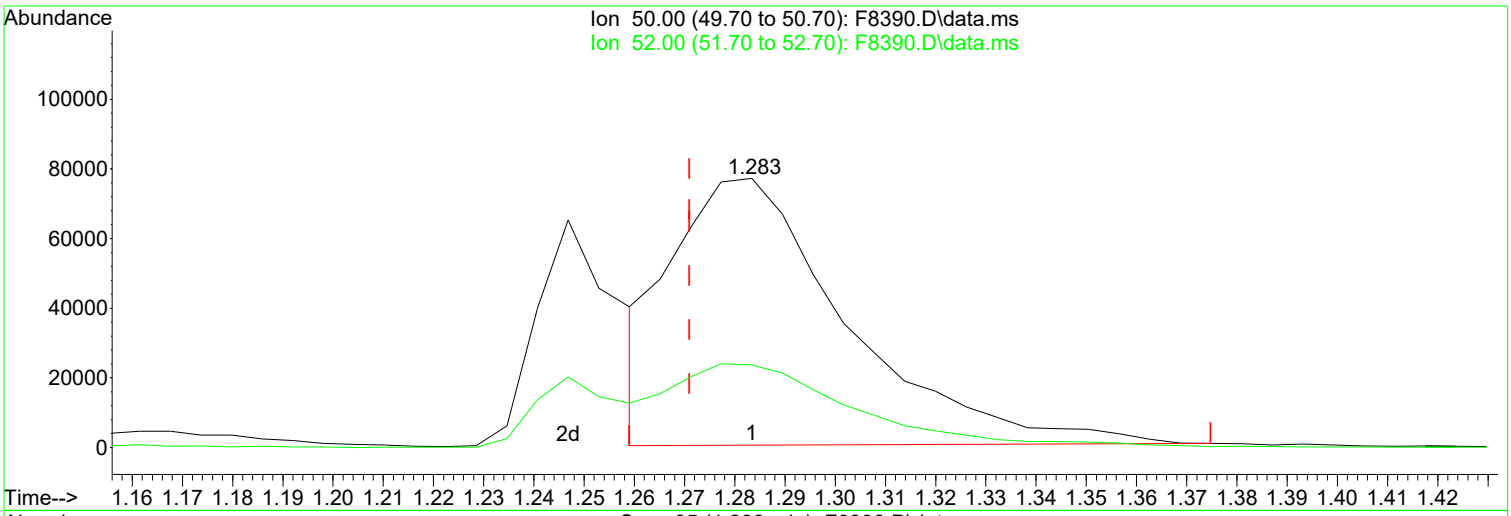
Poor integration.

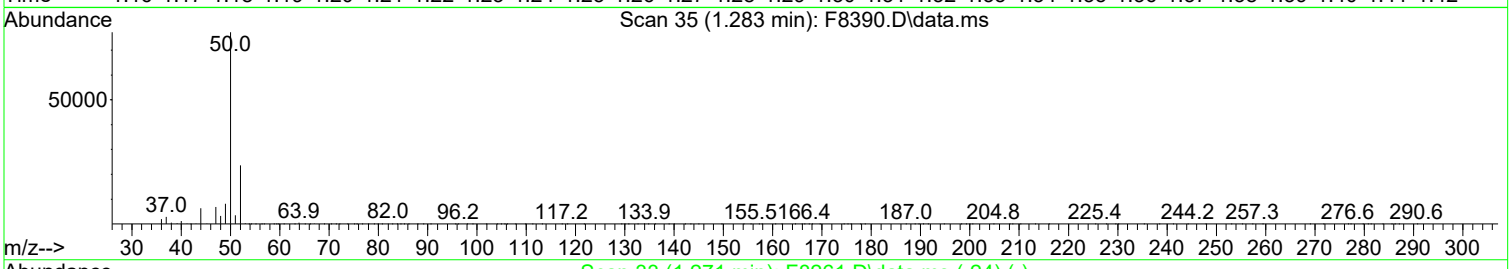
02/26/24

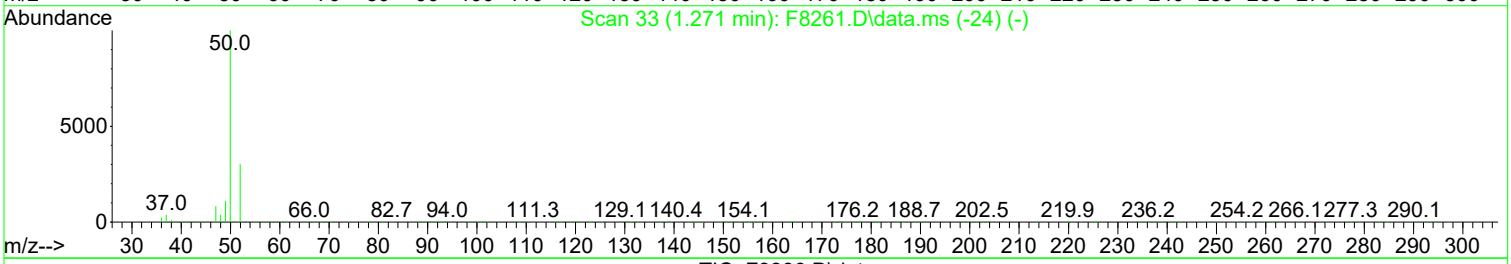
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8390.D
Acq On : 23 Feb 2024 08:54 pm
Operator : F.NAEGLER
Sample : R2401280-018MS
Misc : CEC 25499 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 25 12:24:52 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8390.D\data.ms

(4) Chloromethane (P)

1.283min (+ 0.012) 40.10 ug/L

response 186135

Ion	Exp%	Act%
50.00	100.00	100.00
52.00	30.30	30.65
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

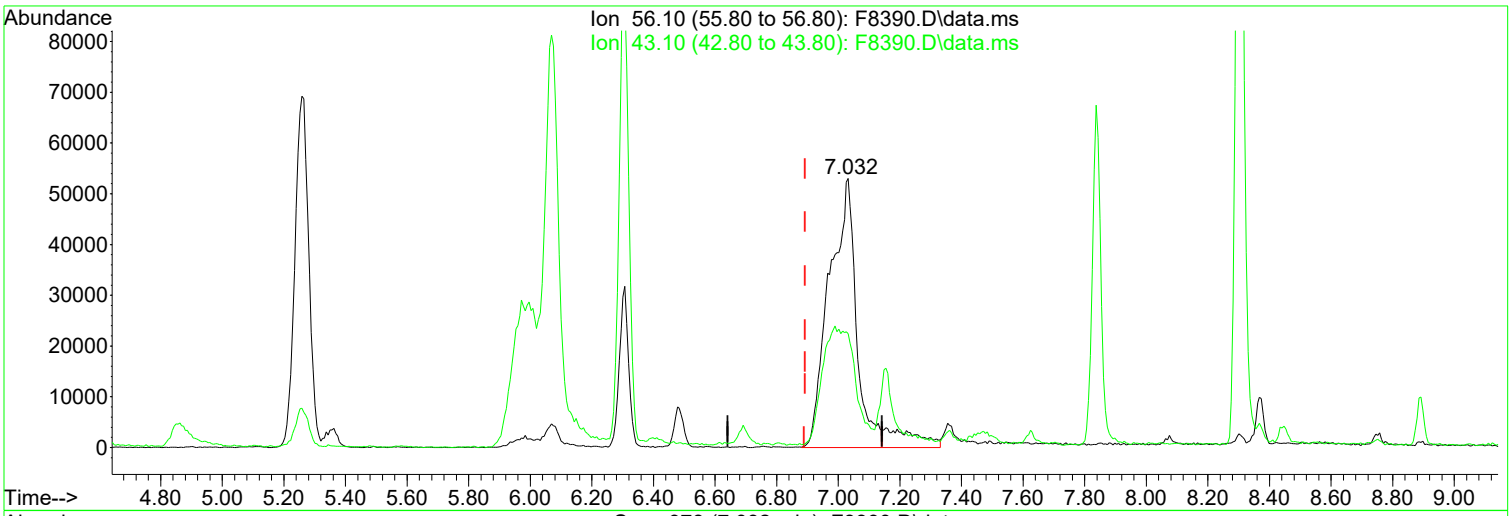
02/26/24

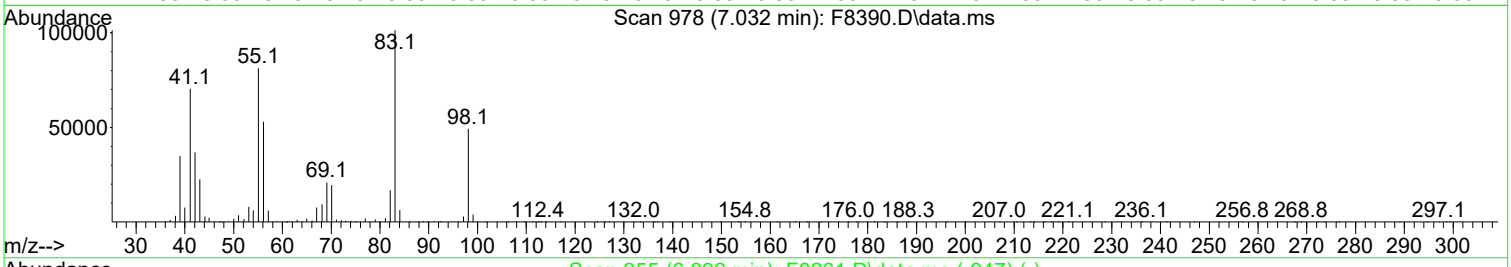
1st FJ 02/26/24
2nd AM 02/27/24

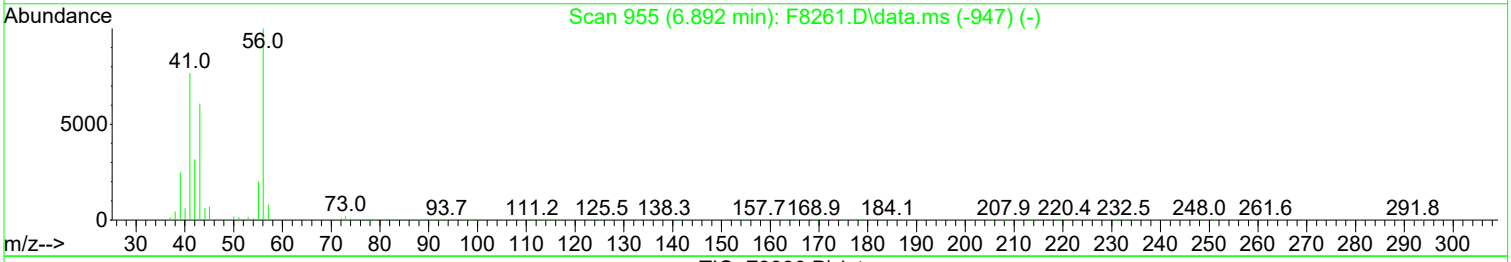
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8390.D
Acq On : 23 Feb 2024 08:54 pm
Operator : F.NAEGLER
Sample : R2401280-018MS
Misc : CEC 25499 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 25 12:24:52 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8390.D\data.ms

(53) 1-Butanol

7.032min (+ 0.140) 2035.89 ug/L m

response 347113

Ion	Exp%	Act%
56.10	100.00	100.00
43.10	60.90	42.35
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

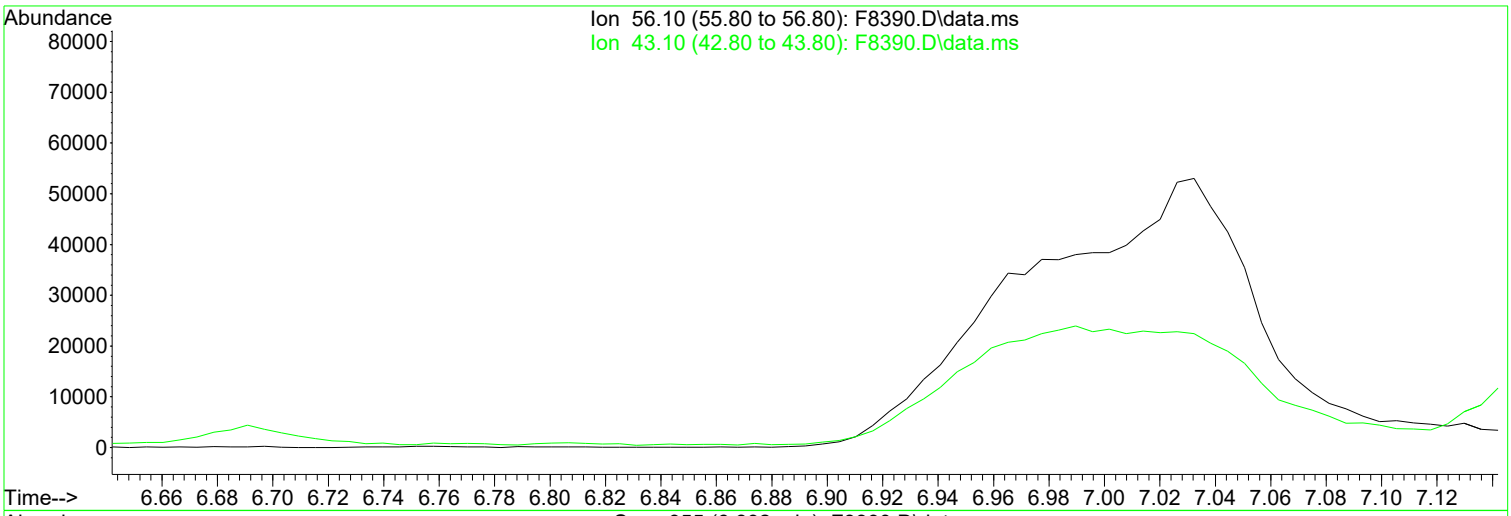
Poor integration.

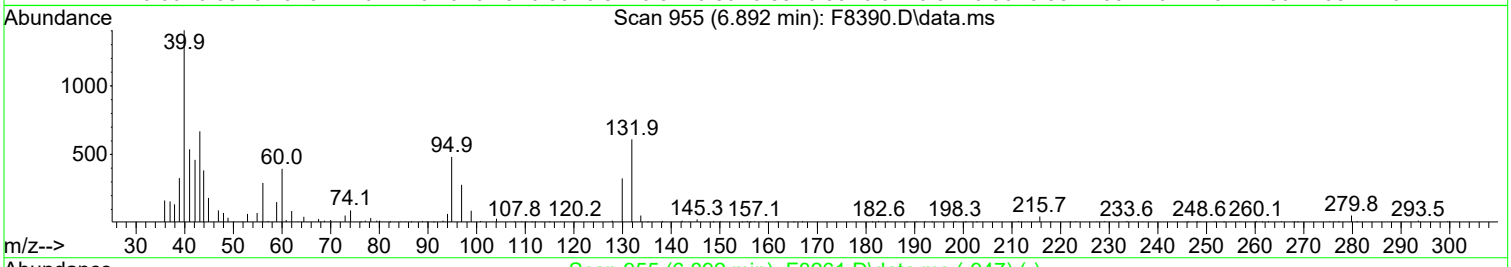
02/26/24

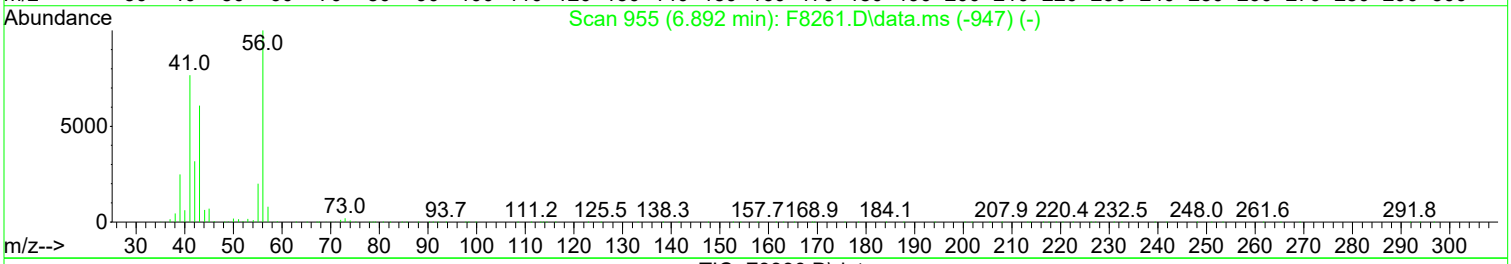
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8390.D
Acq On : 23 Feb 2024 08:54 pm
Operator : F.NAEGLER
Sample : R2401280-018MS
Misc : CEC 25499 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 25 12:24:52 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8390.D\data.ms

(53) 1-Butanol

6.892min (-6.892) 0.00 ug/L

response 0

Ion	Exp%	Act%
56.10	100.00	0.00
43.10	60.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

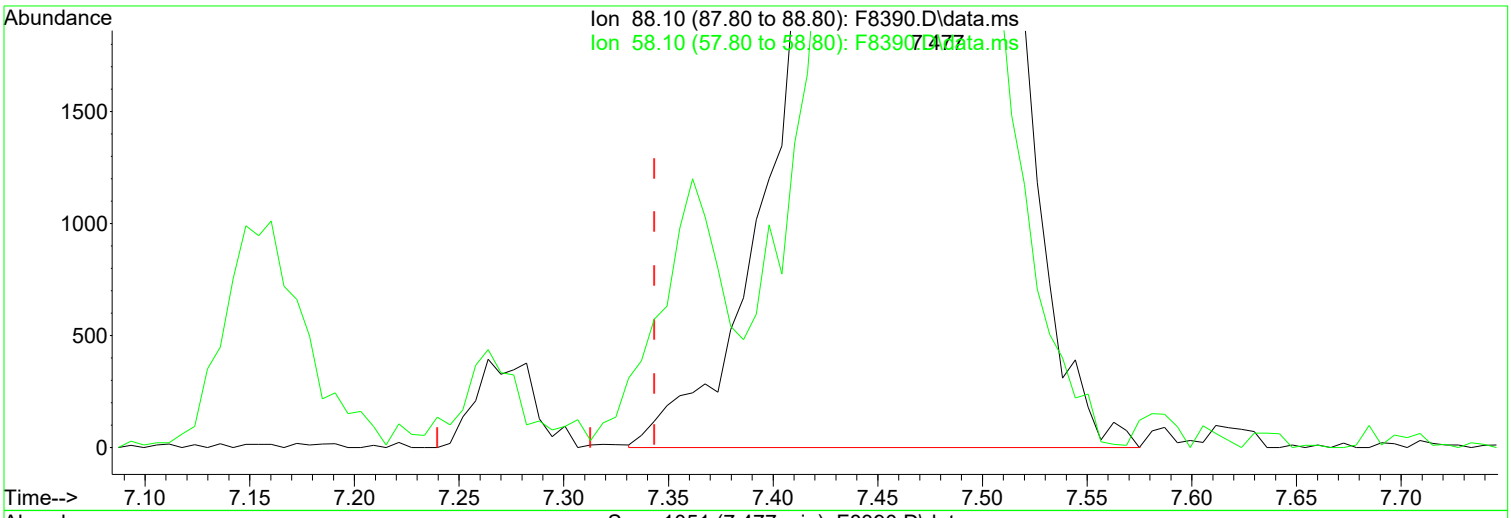
Before

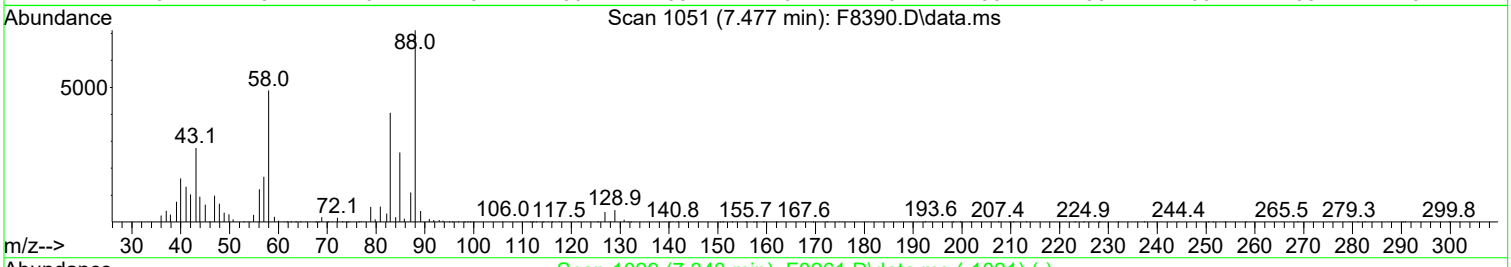
02/26/24

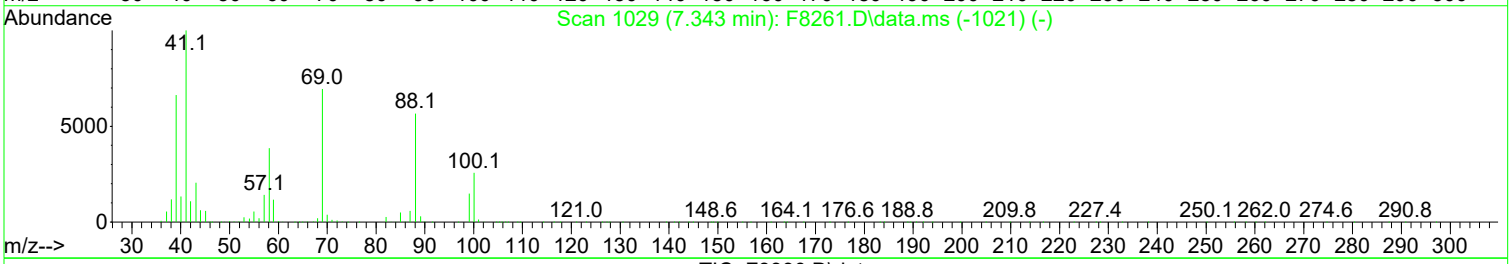
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8390.D
Acq On : 23 Feb 2024 08:54 pm
Operator : F.NAEGLER
Sample : R2401280-018MS
Misc : CEC 25499 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 25 12:24:52 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8390.D\data.ms

(58) 1,4-Dioxane

7.477min (+ 0.134) 324.47 ug/L m

response 32928

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	67.90	68.59
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

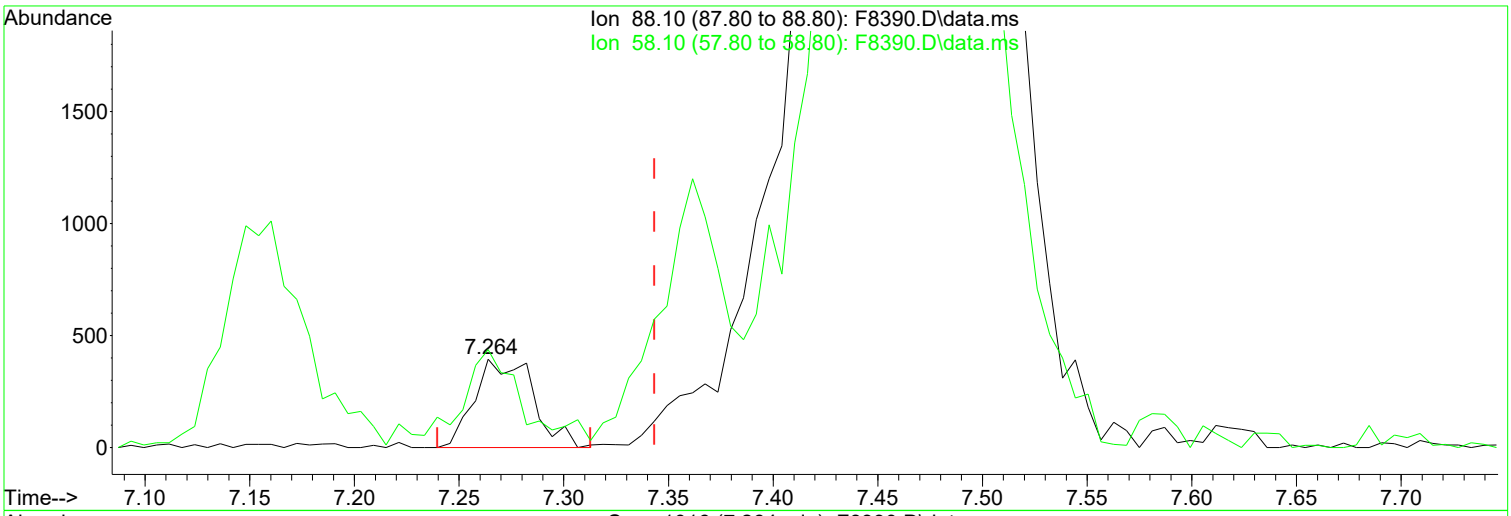
Peak not found.

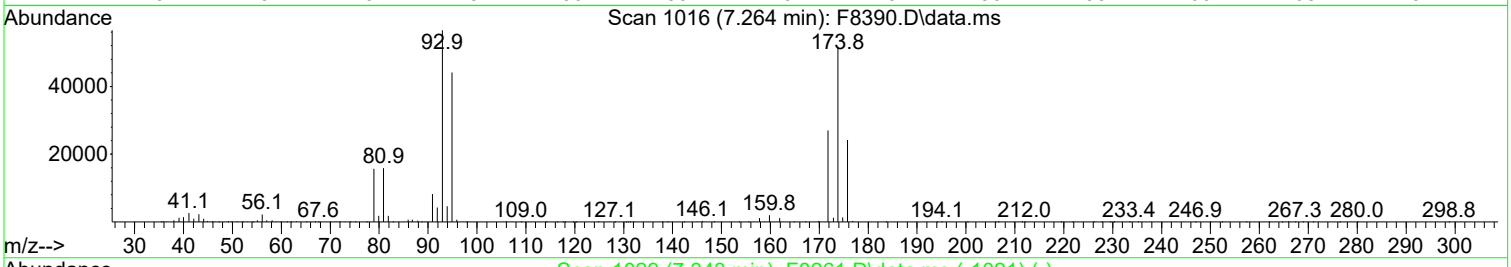
02/26/24

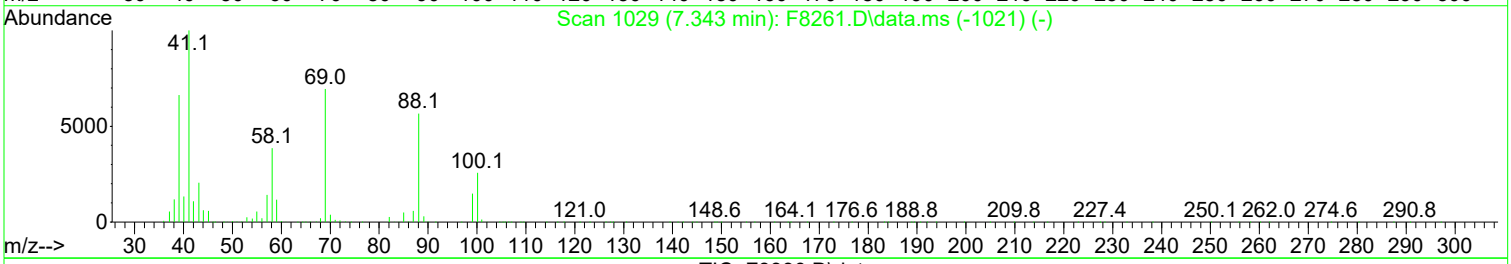
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8390.D
Acq On : 23 Feb 2024 08:54 pm
Operator : F.NAEGLER
Sample : R2401280-018MS
Misc : CEC 25499 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 25 12:24:52 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8390.D\data.ms

(58) 1,4-Dioxane

7.264min (-0.079) 7.56 ug/L

response 767

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	67.90	111.17#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

02/26/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8390.D
Acq On : 23 Feb 2024 08:54 pm
Operator : F.NAEGLER
Sample : R2401280-018MS
Misc : CEC 25499 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 25 12:24:52 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.356	168	432432	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.484	114	684526	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.934	117	668068	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	12.037	152	376255	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.222	113	214126	48.79	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 97.58%				
48) surr1,1,2-dichloroetha...	5.776	65	275447	47.83	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 95.66%				
65) SURR3,Toluene-d8	8.367	98	854527	47.88	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 95.76%				
70) SURR2,BFB	11.044	95	322144	47.52	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 95.04%				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.161	51	146901	40.887	ug/L		97
3) Dichlorodifluoromethane	1.119	85	133275m	29.465	ug/L		
4) Chloromethane	1.283	50	262624m	57.717	ug/L		
5) Vinyl Chloride	1.326	62	287628	54.802	ug/L		96
6) Bromomethane	1.564	94	93638	14.915	ug/L		98
7) Chloroethane	1.637	64	137115	28.986	ug/L		99
8) Freon 21	1.783	67	287822	32.994	ug/L		100
9) Trichlorofluoromethane	1.826	101	334187	48.384	ug/L		99
10) Diethyl Ether	2.052	59	188166	46.367	ug/L		98
11) Freon 123a	2.064	67	183916	38.471	ug/L		98
12) Freon 123	2.119	83	244124	48.952	ug/L		99
13) Acrolein	2.180	56	89138	93.538	ug/L		98
14) 1,1-Diclethene	2.241	96	165968	53.653	ug/L		96
15) Freon 113	2.241	101	169907	54.765	ug/L		99
16) Acetone	2.350	43	135140m	52.685	ug/L		
17) 2-Propanol	2.649	45	254164m	616.362	ug/L		
18) Iodomethane	2.381	142	92902	19.933	ug/L		98
19) Carbon Disulfide	2.430	76	352194	36.979	ug/L		99
20) Acetonitrile	2.582	41	163834m	149.574	ug/L		
21) Allyl Chloride	2.576	76	84743	44.770	ug/L	#	41
22) Methyl Acetate	2.625	43	219955	34.775	ug/L		98
23) Methylene Chloride	2.704	84	160986	41.608	ug/L		97
24) TBA	2.972	59	606322m	844.792	ug/L		
25) Acrylonitrile	2.996	53	499650	211.382	ug/L		98
26) Methyl-t-Butyl Ether	2.990	73	541743	40.046	ug/L		94
27) trans-1,2-Dichloroethene	2.984	96	162026	43.658	ug/L		96
28) 1,1-Diclethane	3.490	63	319701	45.431	ug/L		98
29) Vinyl Acetate	3.594	86	25801	44.416	ug/L	#	58
30) DIPE	3.594	45	560824	43.701	ug/L		96
31) 2-Chloro-1,3-Butadiene	3.606	53	277978	42.169	ug/L		99
32) ETBE	4.124	59	470584	38.760	ug/L		99
33) 2,2-Dichloropropane	4.319	77	210607	42.426	ug/L		93
34) cis-1,2-Dichloroethene	4.338	96	325259	73.851	ug/L		97
35) 2-Butanone	4.441	43	188227	53.965	ug/L		98
36) Propionitrile	4.569	54	223724	214.179	ug/L		100
37) Bromochloromethane	4.740	130	130202	44.723	ug/L		92
38) Methacrylonitrile	4.783	67	106074	41.514	ug/L		97
39) Tetrahydrofuran	4.862	42	88269	38.126	ug/L		95
40) Chloroform	4.923	83	321533	43.855	ug/L		99

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8390.D
Acq On : 23 Feb 2024 08:54 pm
Operator : F.NAEGLER
Sample : R2401280-018MS
Misc : CEC 25499 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 25 12:24:52 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-Trichloroethane	5.197	97	265348	46.049	ug/L	97
42) TAME	6.069	73	516003	43.253	ug/L	92
44) Cyclohexane	5.258	41	133742	33.991	ug/L	99
46) Carbontetrachloride	5.472	117	211199	50.069	ug/L	95
47) 1,1-Dichloropropene	5.496	75	231402	46.426	ug/L	98
49) Benzene	5.831	78	731380	47.794	ug/L	98
50) 1,2-Dichloroethane	5.898	62	282166	42.069	ug/L	99
51) Iso-Butyl Alcohol	5.971	43	156702	529.390	ug/L	95
52) n-Heptane	6.301	43	199783	43.434	ug/L	99
53) 1-Butanol	7.032	56	347113m	2035.895	ug/L	
54) Trichloroethene	6.813	130	543163	132.401	ug/L	97
55) Methylcyclohexane	7.032	55	188629	39.011	ug/L	96
56) 1,2-Diclpropane	7.124	63	195049	46.356	ug/L	99
57) Dibromomethane	7.270	93	139139	44.445	ug/L	96
58) 1,4-Dioxane	7.477	88	32928m	324.467	ug/L	
59) Methyl Methacrylate	7.361	69	171813	45.147	ug/L	98
60) Bromodichloromethane	7.508	83	246870	45.983	ug/L	99
61) 2-Nitropropane	7.837	41	111721	80.383	ug/L	99
63) cis-1,3-Dichloropropene	8.075	75	297486	46.851	ug/L	98
64) 4-Methyl-2-pentanone	8.300	43	296811	43.265	ug/L	95
66) Toluene	8.447	91	825558	47.104	ug/L	99
67) trans-1,3-Dichloropropene	8.751	75	263777	46.765	ug/L	99
68) Ethyl Methacrylate	8.892	69	299963	46.893	ug/L	98
69) 1,1,2-Trichloroethane	8.953	97	187199	43.714	ug/L	99
72) Tetrachloroethene	9.056	164	158938	49.992	ug/L	96
73) 2-Hexanone	9.264	43	220441	42.544	ug/L	100
74) 1,3-Dichloropropane	9.123	76	335982	44.100	ug/L	99
75) Dibromochloromethane	9.361	129	195019	45.031	ug/L	99
76) N-Butyl Acetate	9.416	43	288684	30.731	ug/L	100
77) 1,2-Dibromoethane	9.459	107	201682	44.191	ug/L	98
78) 3-Chlorobenzotrifluoride	9.983	180	281564	46.142	ug/L	98
79) Chlorobenzene	9.965	112	548481	45.023	ug/L	99
80) 4-Chlorobenzotrifluoride	10.044	180	245374	46.993	ug/L	98
81) 1,1,1,2-Tetrachloroethane	10.056	131	175462	47.204	ug/L	96
82) Ethylbenzene	10.087	106	285429	46.927	ug/L	96
83) (m+p)Xylene	10.202	106	731084	95.726	ug/L	97
84) o-Xylene	10.568	106	360871	46.666	ug/L	100
85) Styrene	10.586	104	615464	47.484	ug/L	99
86) Bromoform	10.751	173	143816	48.873	ug/L	100
87) 2-Chlorobenzotrifluoride	10.830	180	284231	47.172	ug/L	99
88) Isopropylbenzene	10.910	105	889013	45.972	ug/L	100
89) Cyclohexanone	11.013	55	170715	122.026	ug/L	100
90) trans-1,4-Dichloro-2-B...	11.245	53	74110	35.406	ug/L	91
92) 1,1,2,2-Tetrachloroethane	11.196	83	311476	44.530	ug/L	98
93) Bromobenzene	11.166	156	242182	44.590	ug/L	99
94) 1,2,3-Trichloropropane	11.227	110	101653	43.173	ug/L	96
95) n-Propylbenzene	11.275	91	1073005	44.620	ug/L	100
96) 2-Chlorotoluene	11.342	91	628247	43.388	ug/L	99
97) 3-Chlorotoluene	11.397	91	631786	42.803	ug/L	99
98) 4-Chlorotoluene	11.440	91	746869	44.706	ug/L	99
99) 1,3,5-Trimethylbenzene	11.434	105	770239	44.898	ug/L	98
100) tert-Butylbenzene	11.708	119	666644	46.574	ug/L	99
101) 1,2,4-Trimethylbenzene	11.751	105	772316	44.808	ug/L	98
102) 3,4-Dichlorobenzotrifl...	11.812	214	223561	45.812	ug/L	99
103) sec-Butylbenzene	11.891	105	948745	45.827	ug/L	98
104) p-Isopropyltoluene	12.019	119	829559	47.635	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8390.D
Acq On : 23 Feb 2024 08:54 pm
Operator : F.NAEGLER
Sample : R2401280-018MS
Misc : CEC 25499 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 25 12:24:52 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

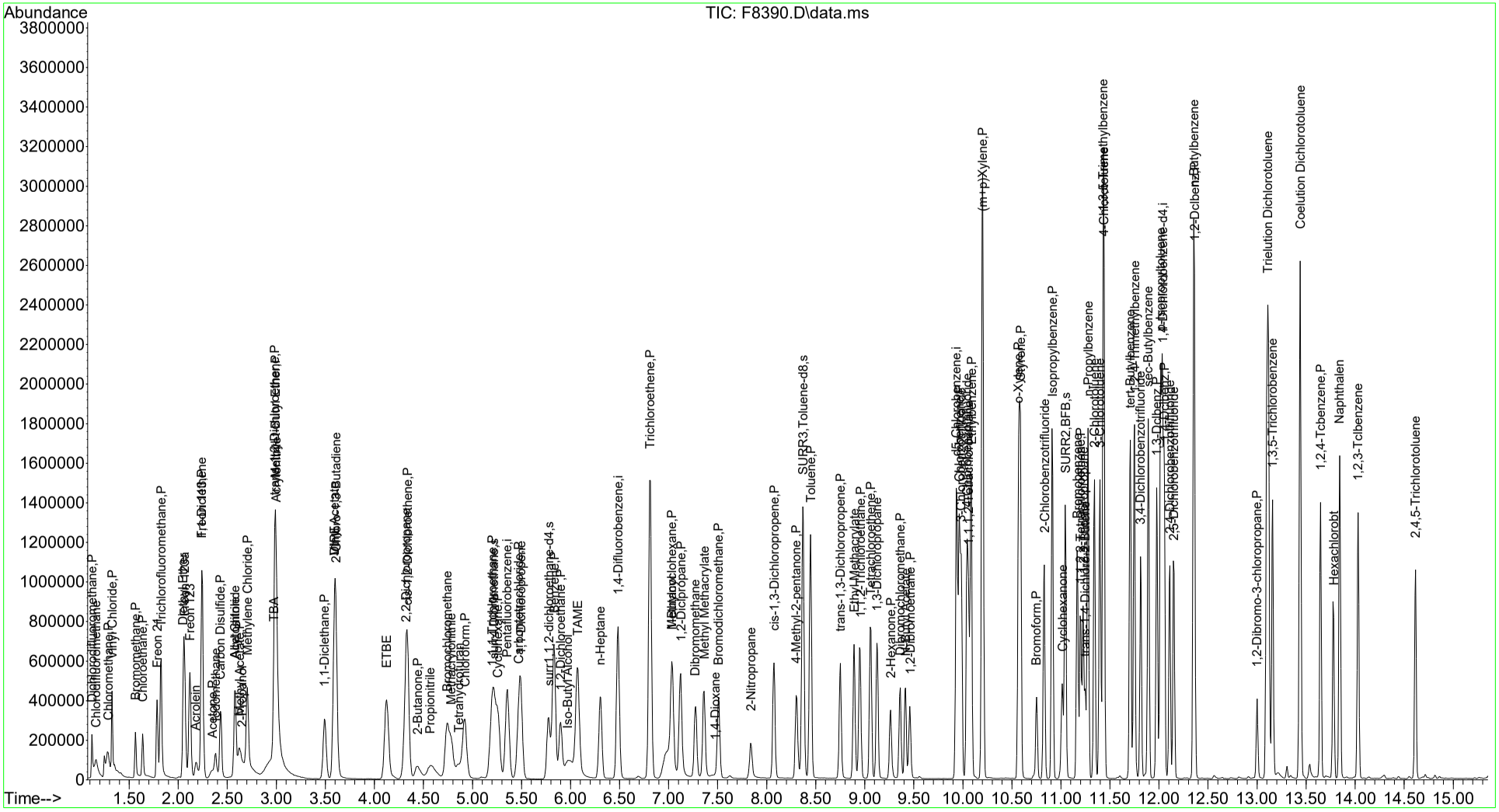
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.976	146	448544	45.583	ug/L	96
106) 1,4-Dclbenz	12.056	146	461754	42.874	ug/L	99
107) 2,4-Dichlorobenzotrifl...	12.111	214	207081	46.512	ug/L	97
108) 2,5-Dichlorobenzotrifl...	12.153	214	233658	46.916	ug/L	97
109) n-Butylbenzene	12.354	91	719654	46.529	ug/L	100
110) 1,2-Dclbenz	12.361	146	446466	43.788	ug/L	99
111) 1,2-Dibromo-3-chloropr...	13.001	157	74481	48.352	ug/L	97
112) Trielution Dichlorotol...	13.110	125	1104344	133.032	ug/L	99
113) 1,3,5-Trichlorobenzene	13.159	180	328240	45.311	ug/L	97
114) Coelution Dichlorotoluene	13.440	125	805866	88.311	ug/L	99
115) 1,2,4-Tcbenzene	13.647	180	315236	46.244	ug/L	99
116) Hexachlorobt	13.781	225	128076	47.057	ug/L	97
117) Naphthalen	13.842	128	960722	43.309	ug/L	100
118) 1,2,3-Tclbenzene	14.031	180	313512	46.136	ug/L	99
119) 2,4,5-Trichlorotoluene	14.616	159	206435	44.500	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8390.D
Acq On : 23 Feb 2024 08:54 pm
Operator : F.NAEGLER
Sample : R2401280-018MS
Misc : CEC 25499 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 25 12:24:52 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

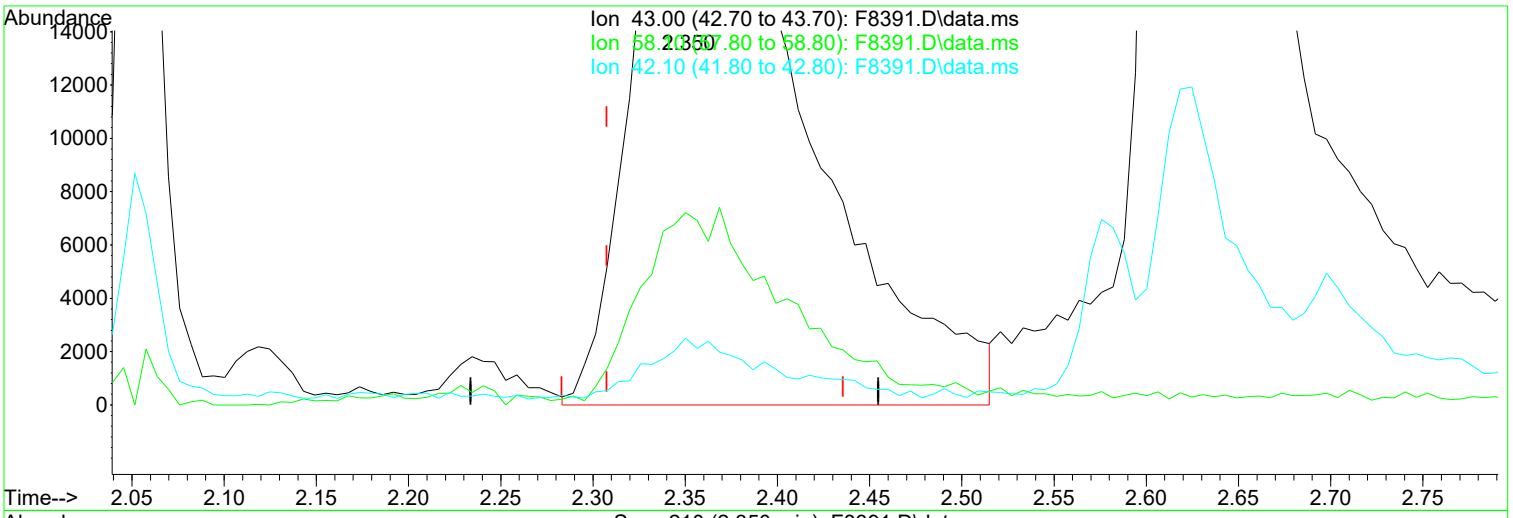


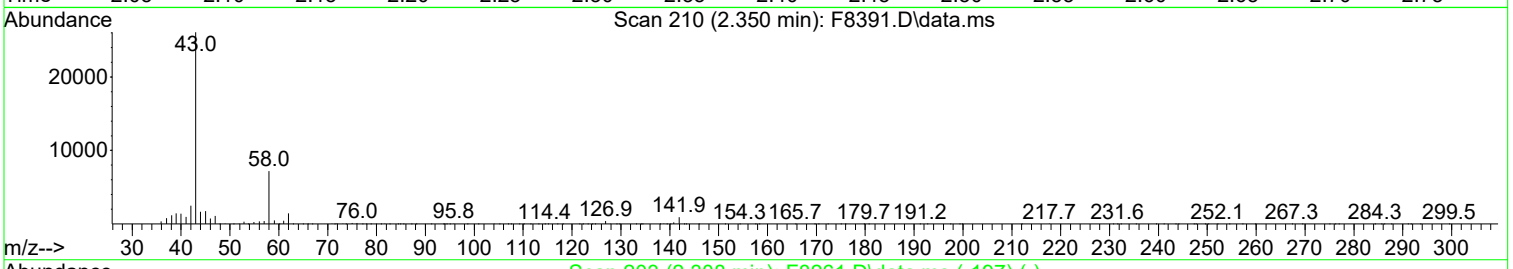
1st FJ 02/26/24
2nd AM 02/27/24

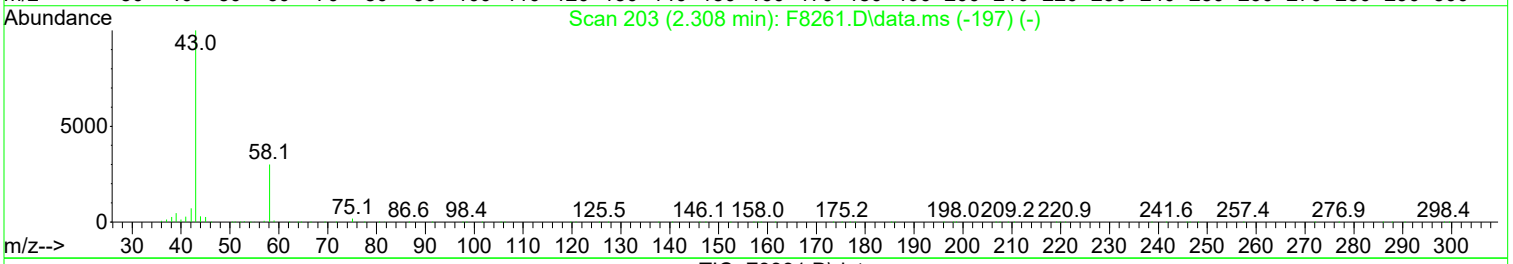
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8391.D
Acq On : 23 Feb 2024 09:16 pm
Operator : F.NAEGLER
Sample : R2401280-018DMS
Misc : CEC 25499 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Feb 25 12:25:11 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8391.D\data.ms

(16) Acetone (P)

2.350min (+ 0.043) 51.85 ug/L m

response 148604

Ion	Exp%	Act%
43.00	100.00	100.00
58.10	30.00	27.66
42.10	7.20	9.61
0.00	0.00	0.00

Manual Integration:

After

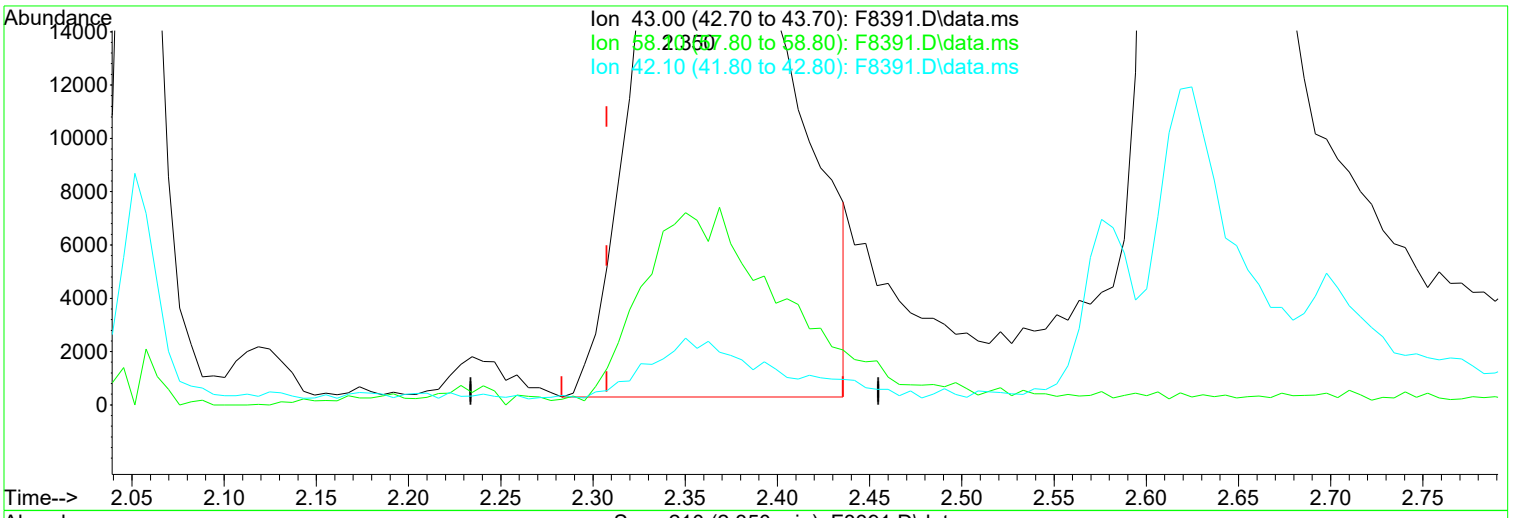
Poor integration.

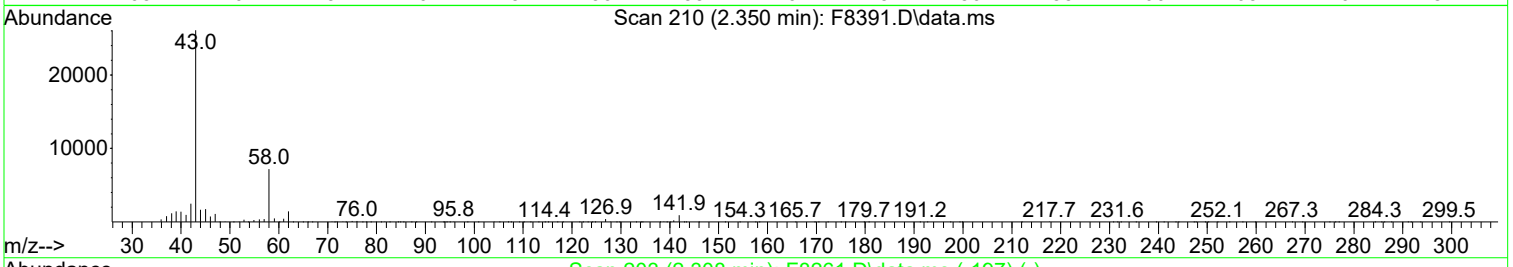
02/26/24

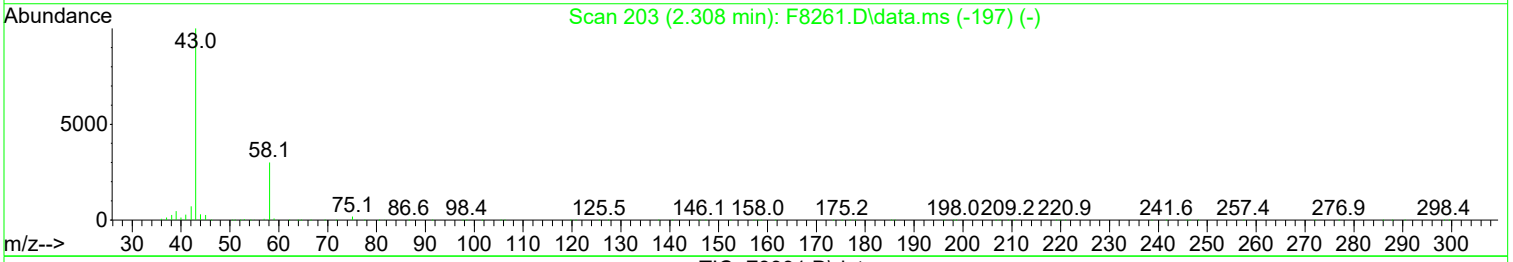
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8391.D
Acq On : 23 Feb 2024 09:16 pm
Operator : F.NAEGLER
Sample : R2401280-018DMS
Misc : CEC 25499 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Feb 25 12:25:11 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8391.D\data.ms

(16) Acetone (P) **Manual Integration:**

2.350min (+ 0.043) 44.76 ug/L **Before**

response 128281

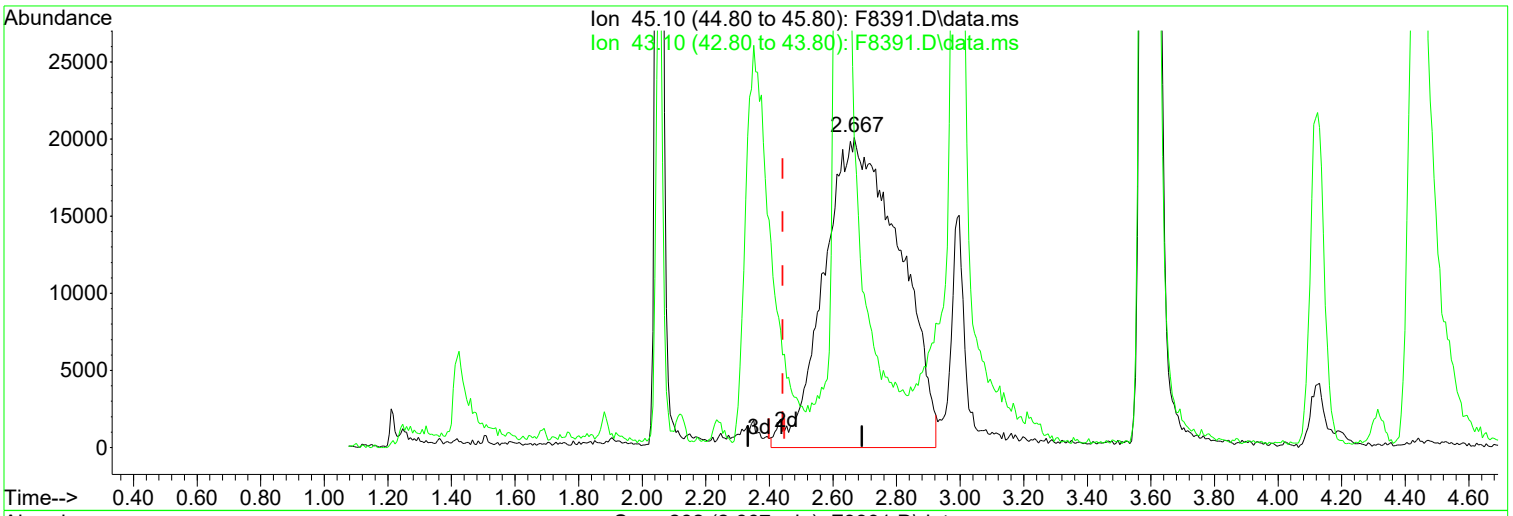
Ion	Exp%	Act%
43.00	100.00	100.00
58.10	30.00	27.66
42.10	7.20	9.61
0.00	0.00	0.00

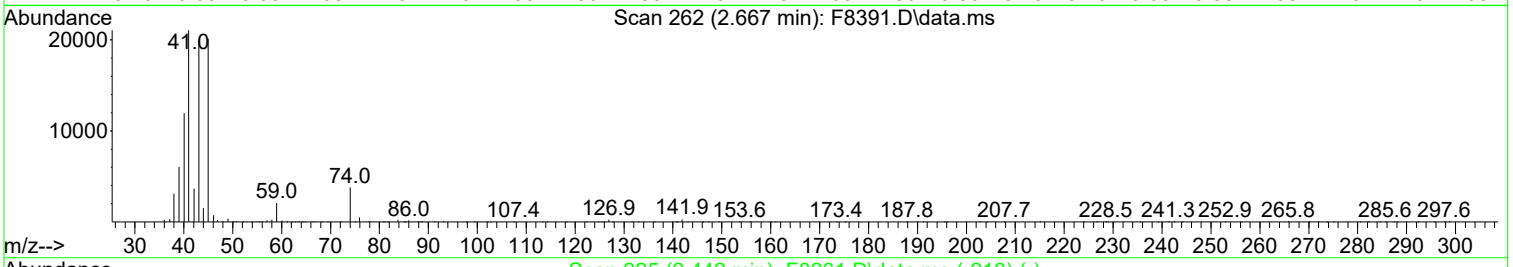
02/26/24

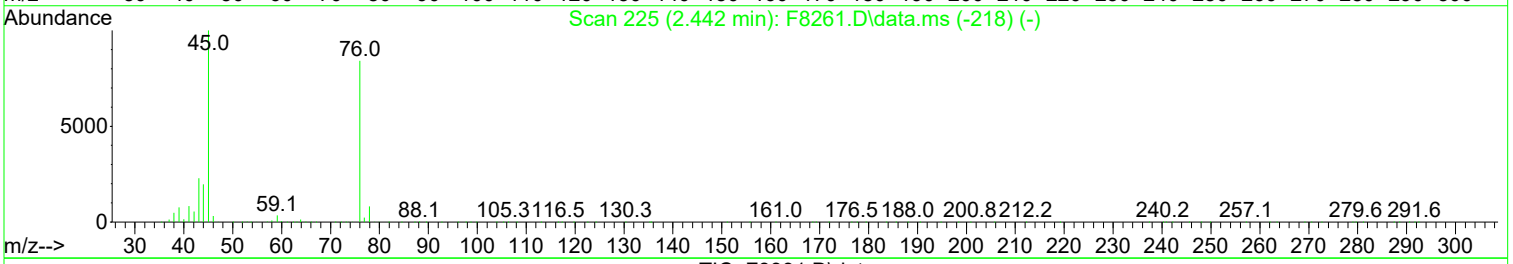
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8391.D
Acq On : 23 Feb 2024 09:16 pm
Operator : F.NAEGLER
Sample : R2401280-018DMS
Misc : CEC 25499 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Feb 25 12:25:11 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8391.D\data.ms

(17) 2-Propanol

2.667min (+ 0.226) 719.17 ug/L m

response 331333

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	23.00	99.68#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

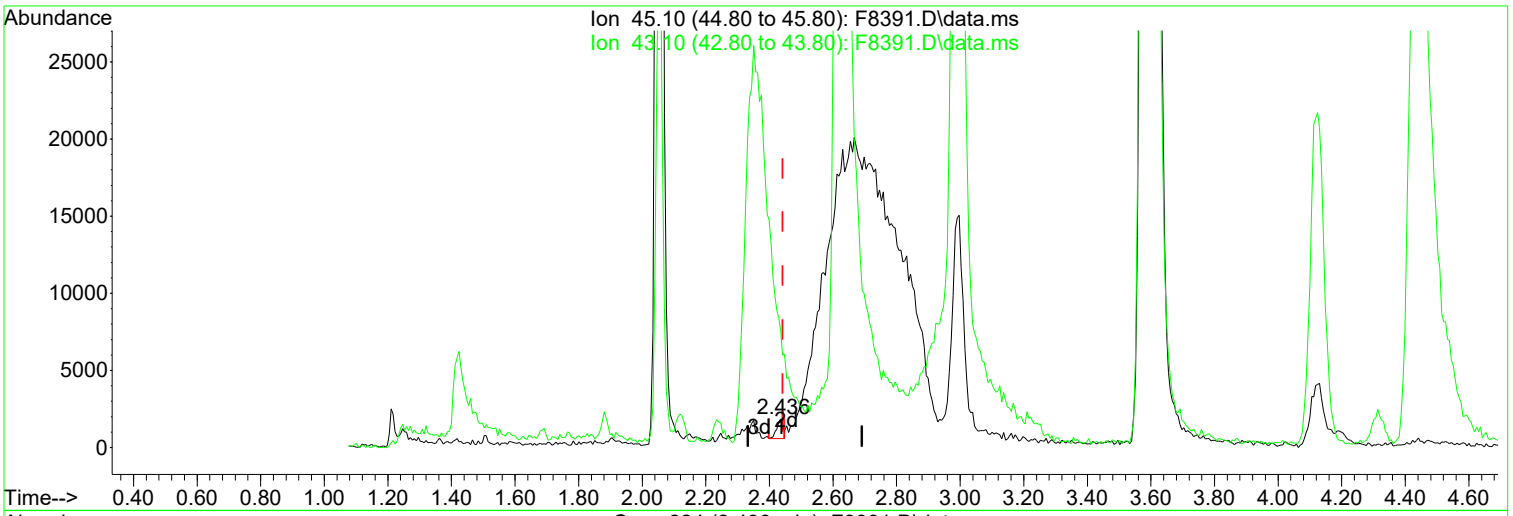
Peak not found.

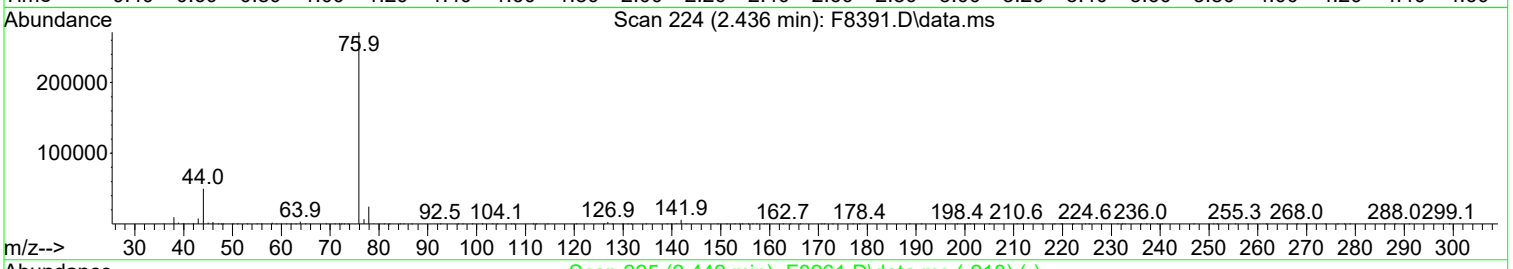
02/26/24

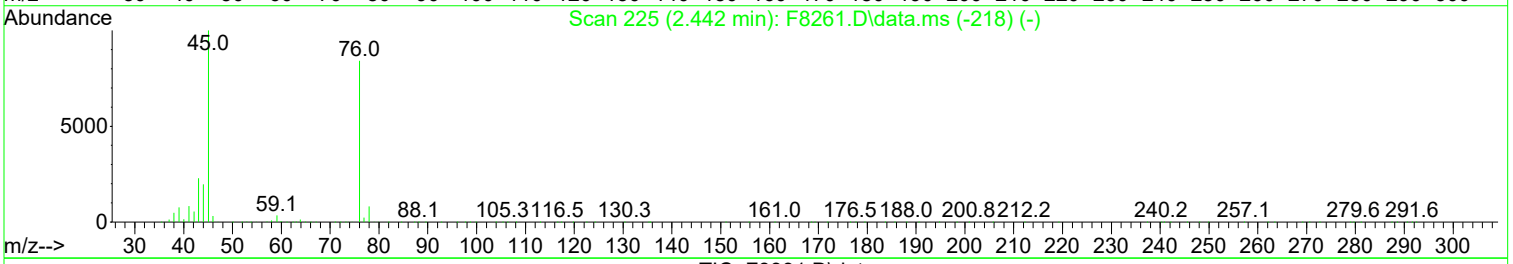
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8391.D
Acq On : 23 Feb 2024 09:16 pm
Operator : F.NAEGLER
Sample : R2401280-018DMS
Misc : CEC 25499 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Feb 25 12:25:11 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8391.D\data.ms

(17) 2-Propanol

2.436min (-0.006) 3.86 ug/L

response 1777

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	23.00	413.08#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

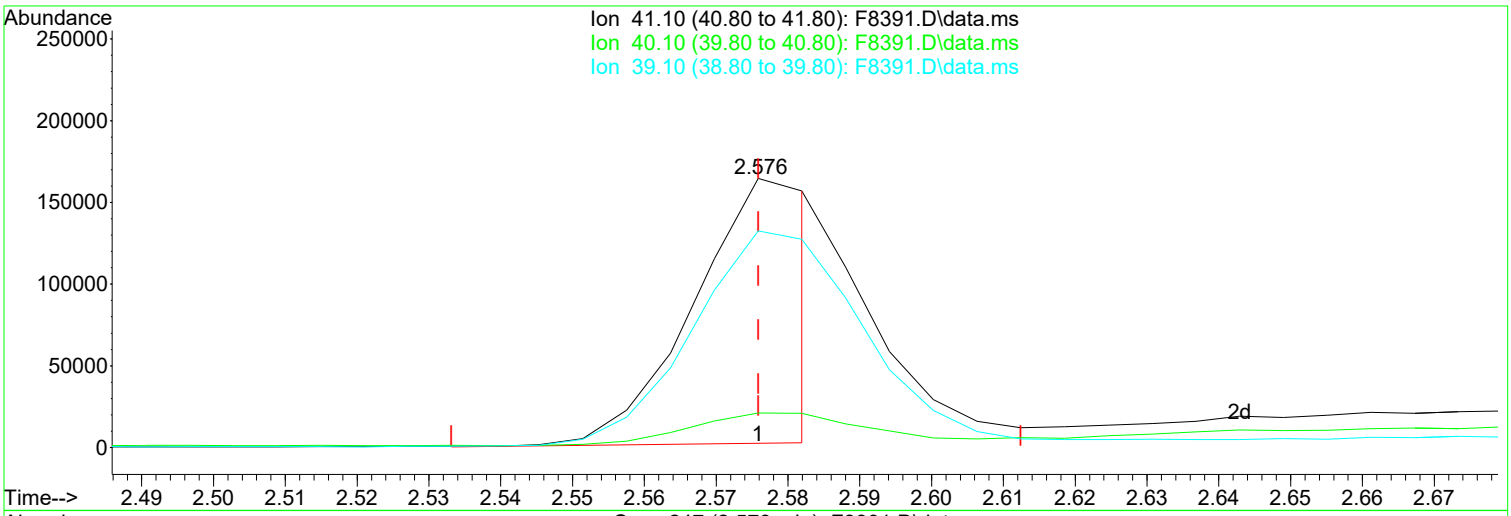
Before

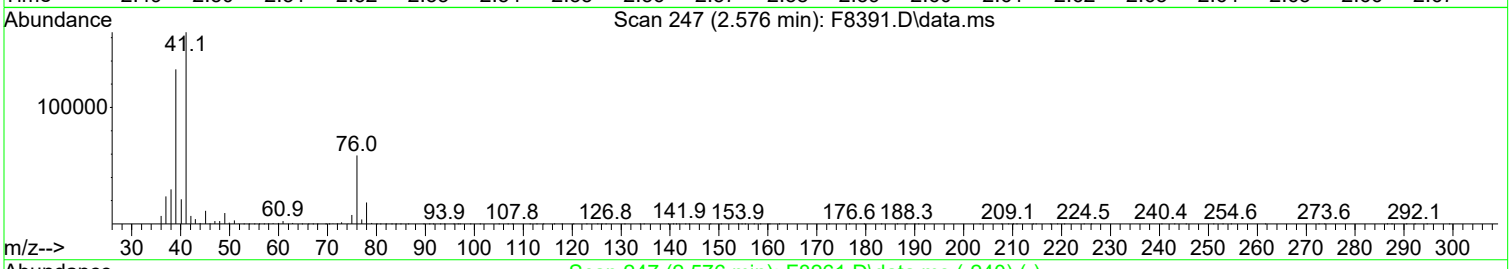
02/26/24

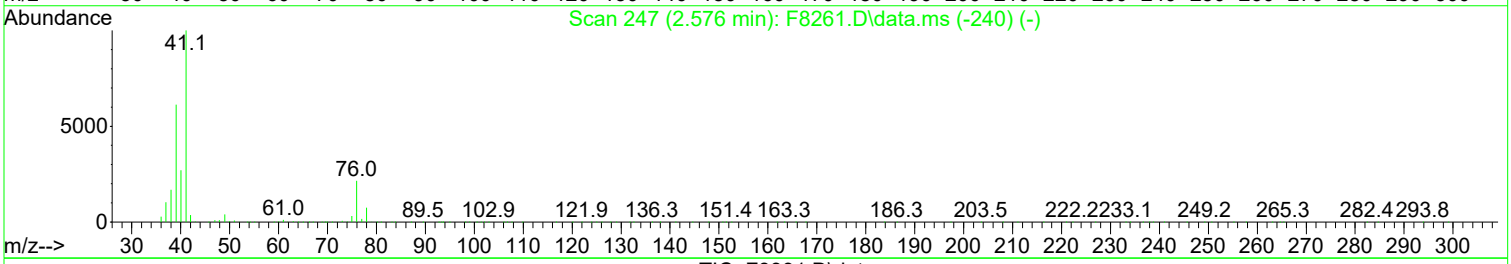
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8391.D
Acq On : 23 Feb 2024 09:16 pm
Operator : F.NAEGLER
Sample : R2401280-018DMS
Misc : CEC 25499 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Feb 25 12:25:11 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8391.D\data.ms

(20) Acetonitrile

2.576min (-0.000) 153.35 ug/L m

response 187667

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	27.60	12.85
39.10	61.30	80.56
0.00	0.00	0.00

Manual Integration:

After

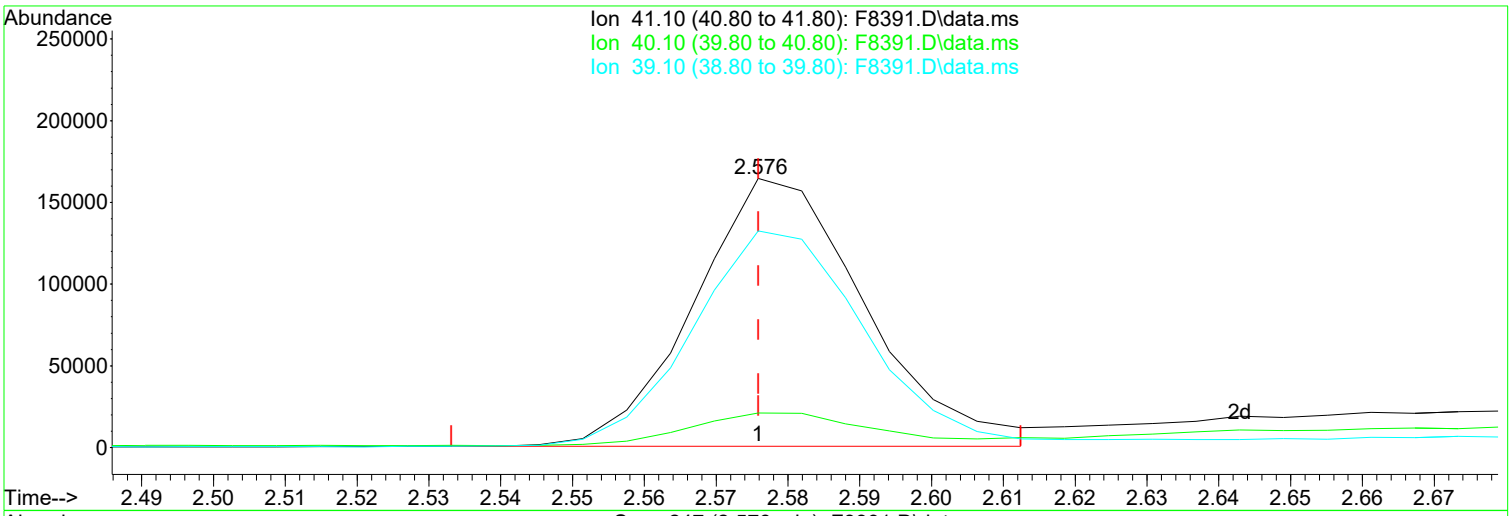
Poor integration.

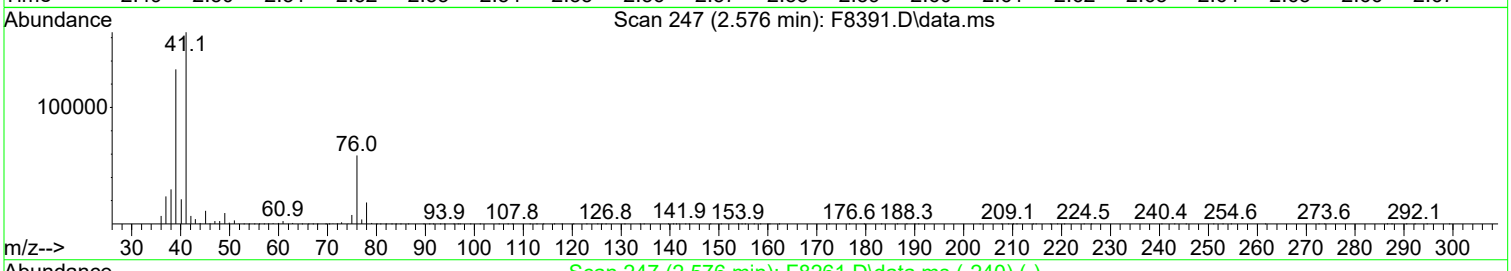
02/26/24

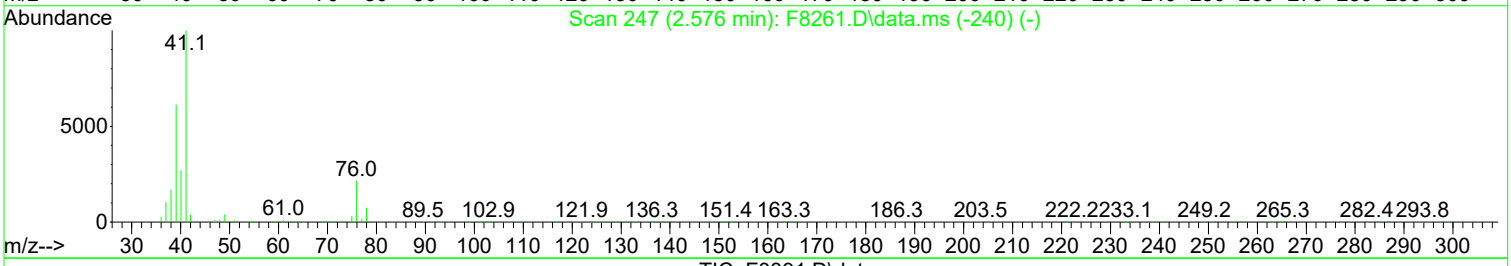
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8391.D
Acq On : 23 Feb 2024 09:16 pm
Operator : F.NAEGLER
Sample : R2401280-018DMS
Misc : CEC 25499 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Feb 25 12:25:11 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8391.D\data.ms

(20) Acetonitrile

2.576min (-0.000) 222.17 ug/L

response 271884

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	27.60	12.85
39.10	61.30	80.56
0.00	0.00	0.00

Manual Integration:

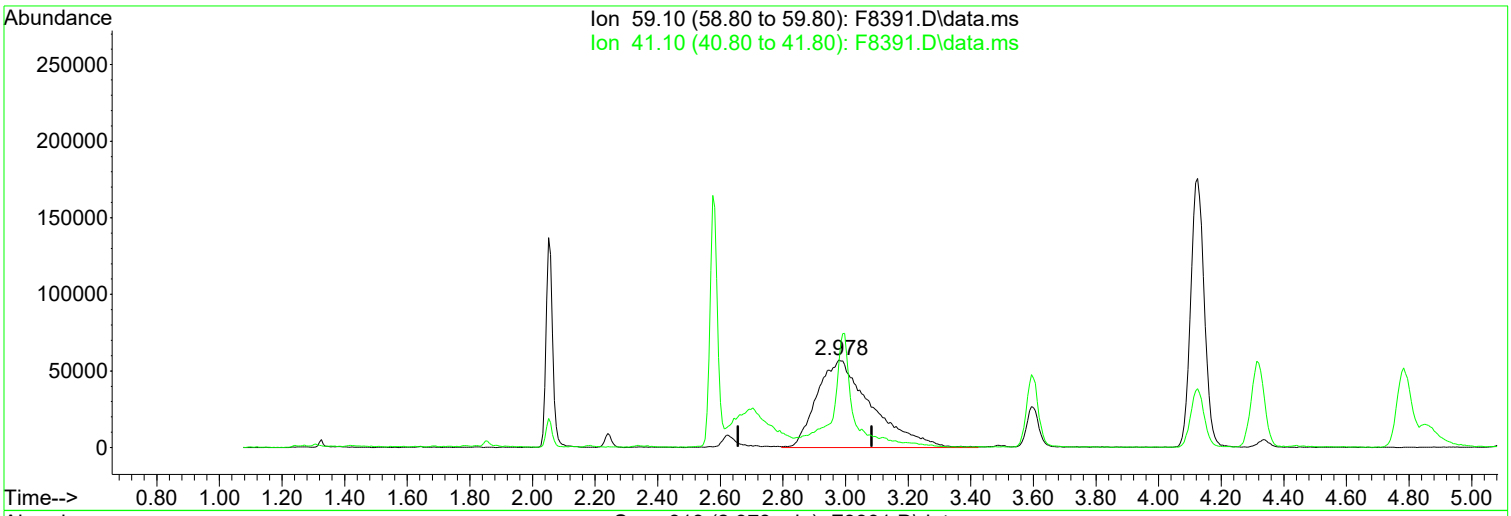
Before

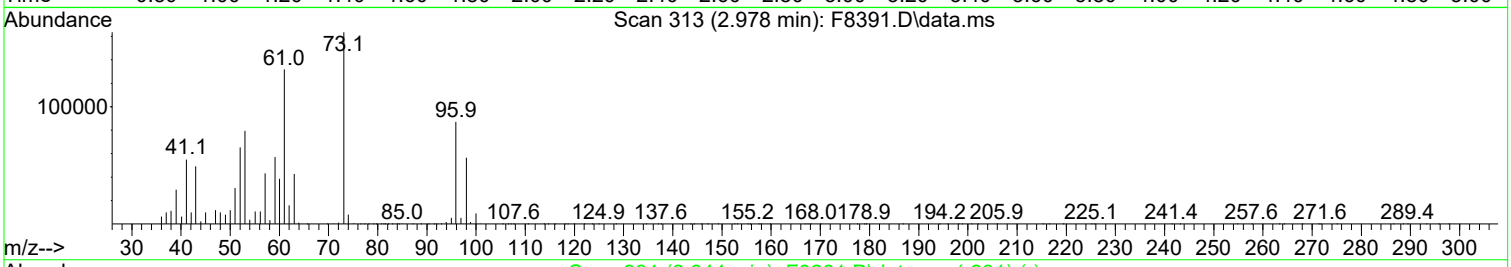
02/26/24

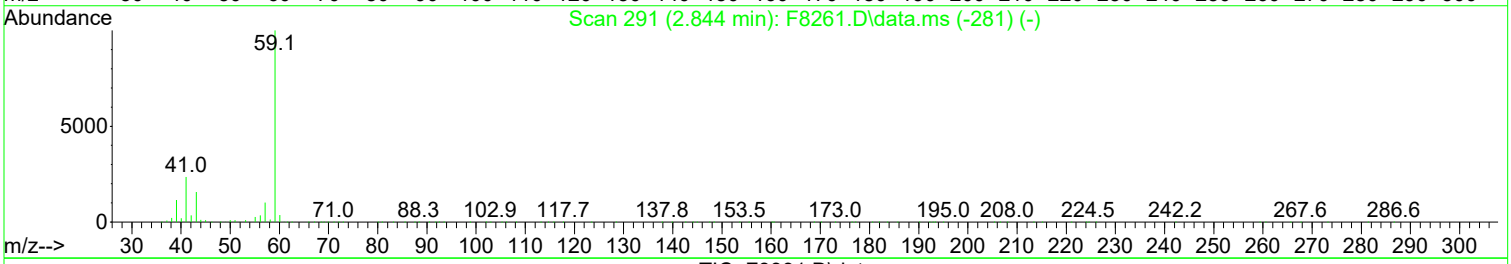
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8391.D
Acq On : 23 Feb 2024 09:16 pm
Operator : F.NAEGLER
Sample : R2401280-018DMS
Misc : CEC 25499 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Feb 25 12:25:11 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8391.D\data.ms

(24) TBA

2.978min (+ 0.134) 863.04 ug/L m

response 692060

Ion	Exp%	Act%
59.10	100.00	100.00
41.10	23.60	96.12#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

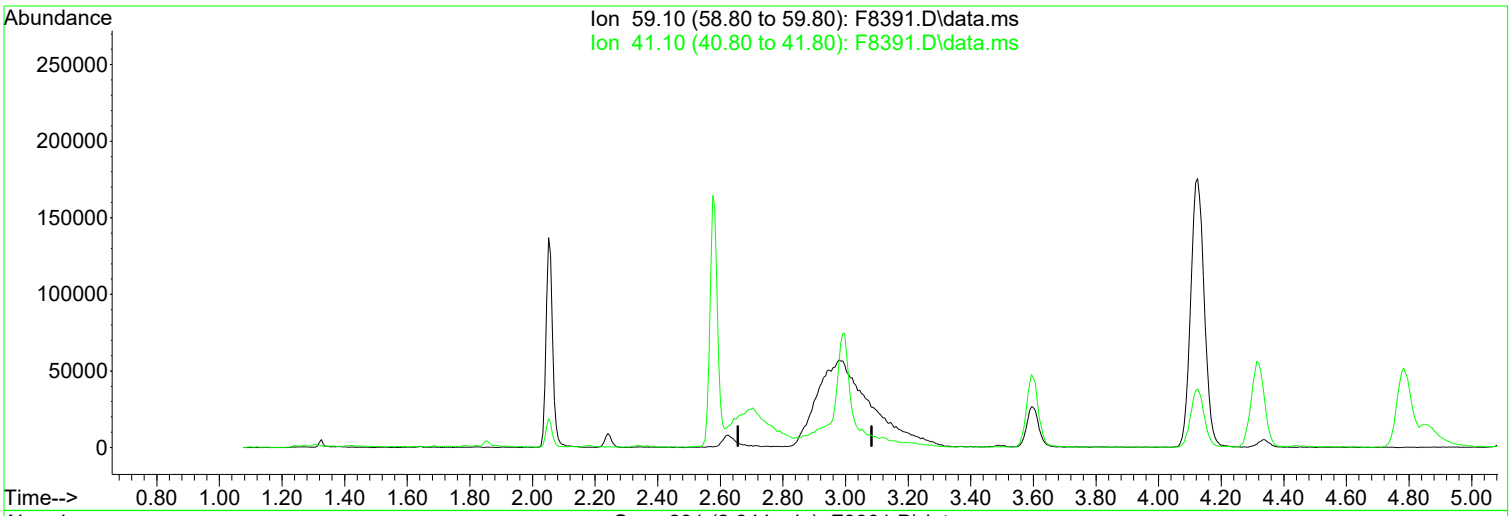
Peak not found.

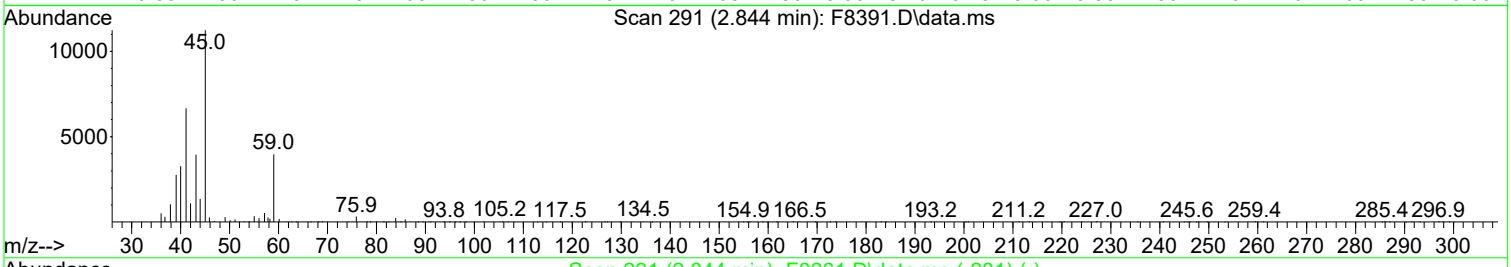
02/26/24

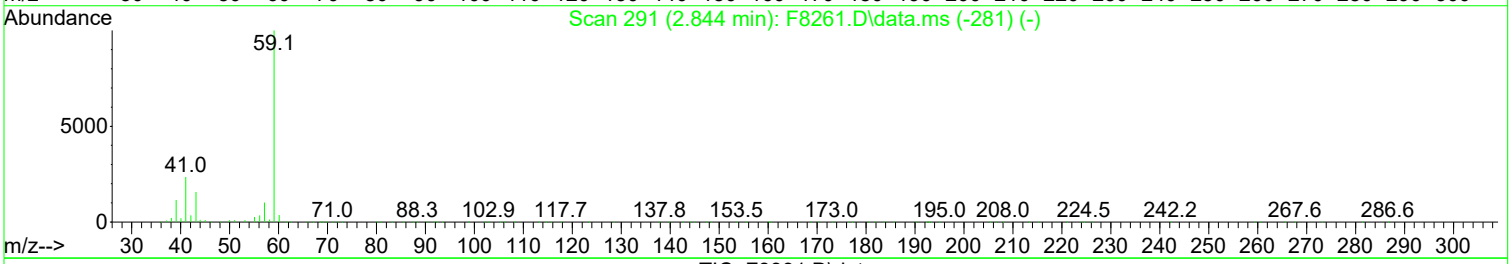
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8391.D
Acq On : 23 Feb 2024 09:16 pm
Operator : F.NAEGLER
Sample : R2401280-018DMS
Misc : CEC 25499 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Feb 25 12:25:11 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8391.D\data.ms

(24) TBA

2.844min (-2.844) 0.00 ug/L

response 0

Ion	Exp%	Act%
59.10	100.00	0.00
41.10	23.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

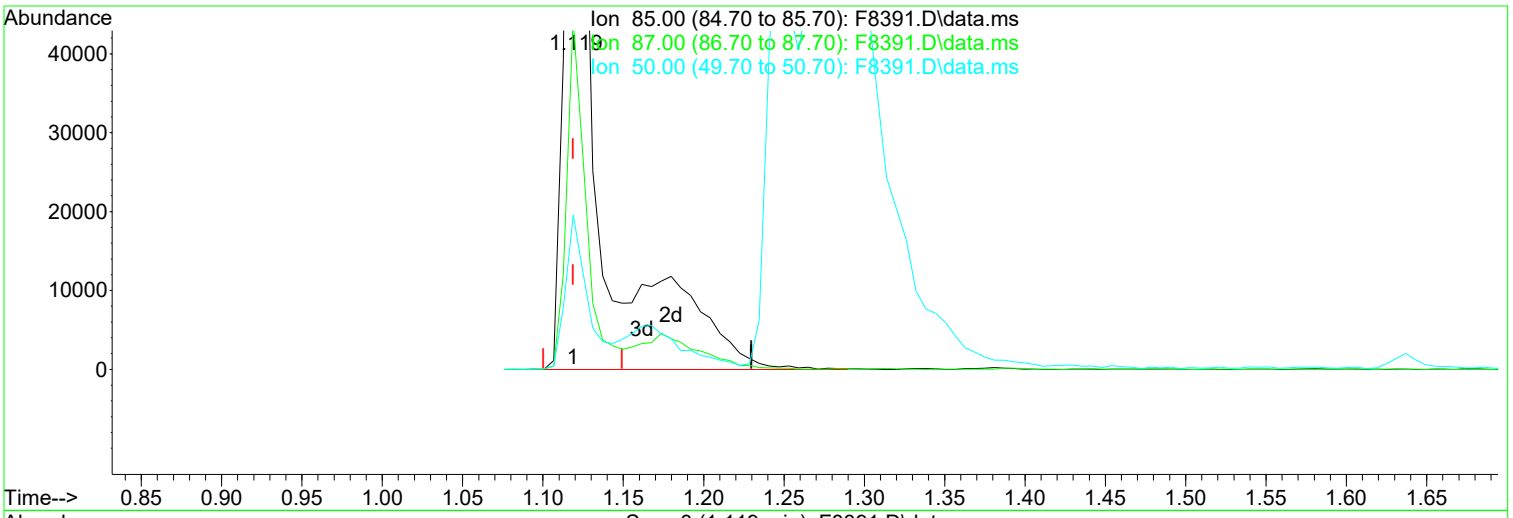
Before

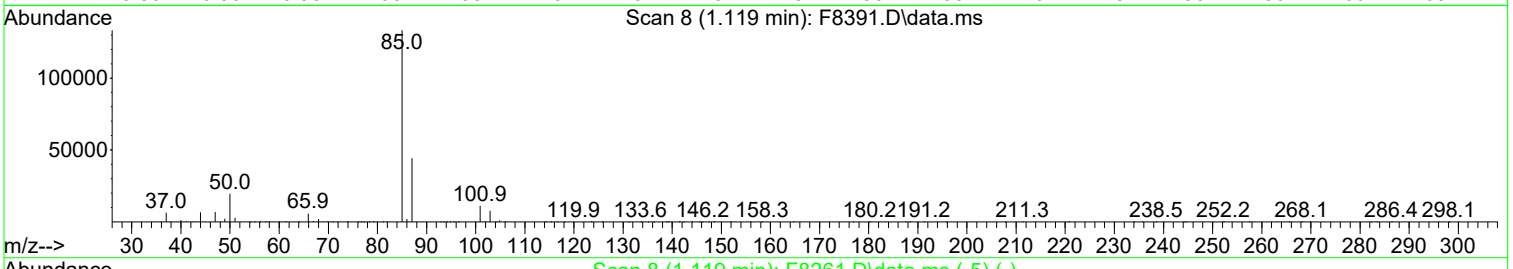
02/26/24

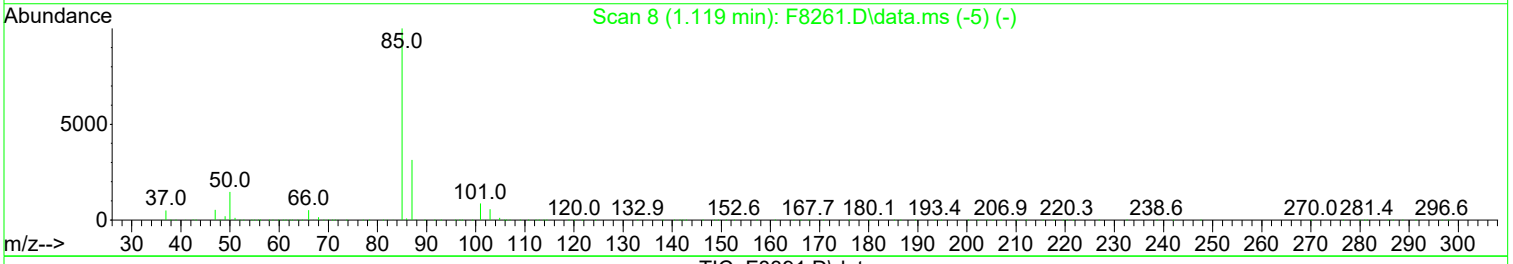
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8391.D
Acq On : 23 Feb 2024 09:16 pm
Operator : F.NAEGLER
Sample : R2401280-018DMS
Misc : CEC 25499 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Feb 25 12:25:11 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8391.D\data.ms

(3) Dichlorodifluoromethane (P)

1.119min (-0.000) 29.65 ug/L m

response 149815

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.30	33.29
50.00	14.60	14.70
0.00	0.00	0.00

Manual Integration:

After

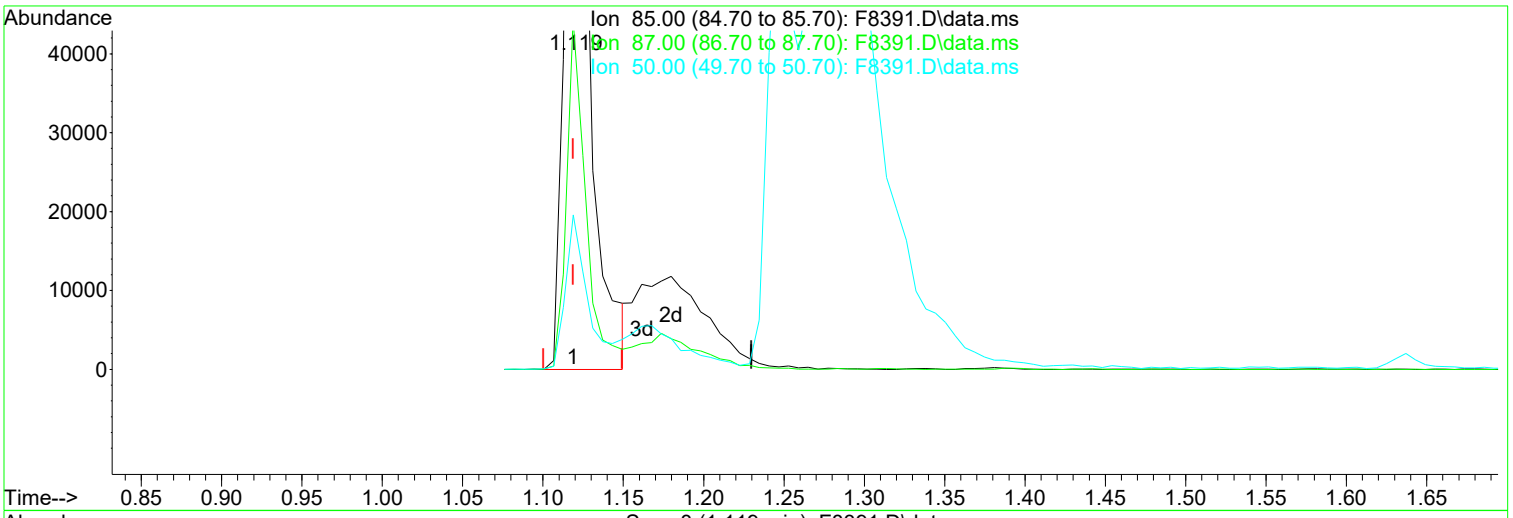
Poor integration.

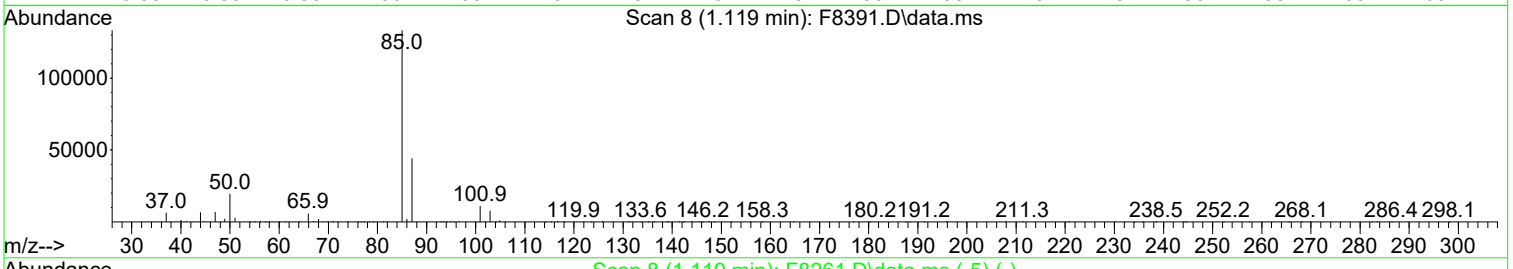
02/26/24

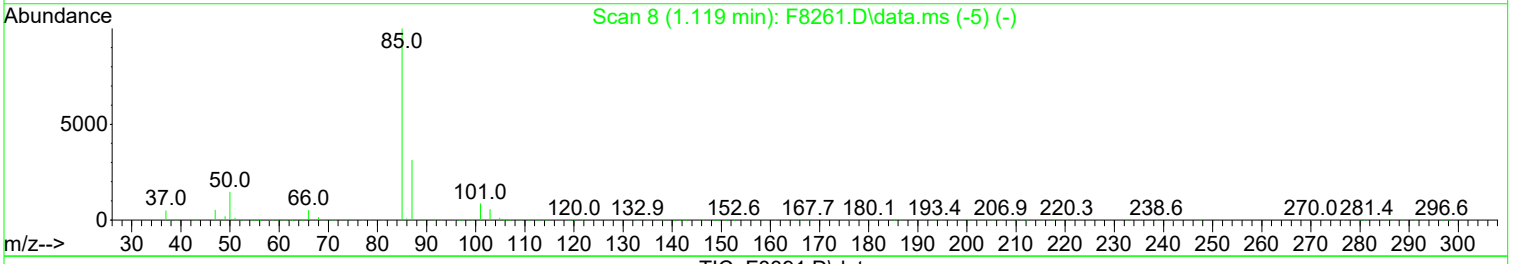
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8391.D
Acq On : 23 Feb 2024 09:16 pm
Operator : F.NAEGLER
Sample : R2401280-018DMS
Misc : CEC 25499 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Feb 25 12:25:11 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8391.D\data.ms

(3) Dichlorodifluoromethane (P)

1.119min (-0.000) 22.39 ug/L

response 113125

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.30	33.29
50.00	14.60	14.70
0.00	0.00	0.00

Manual Integration:

Before

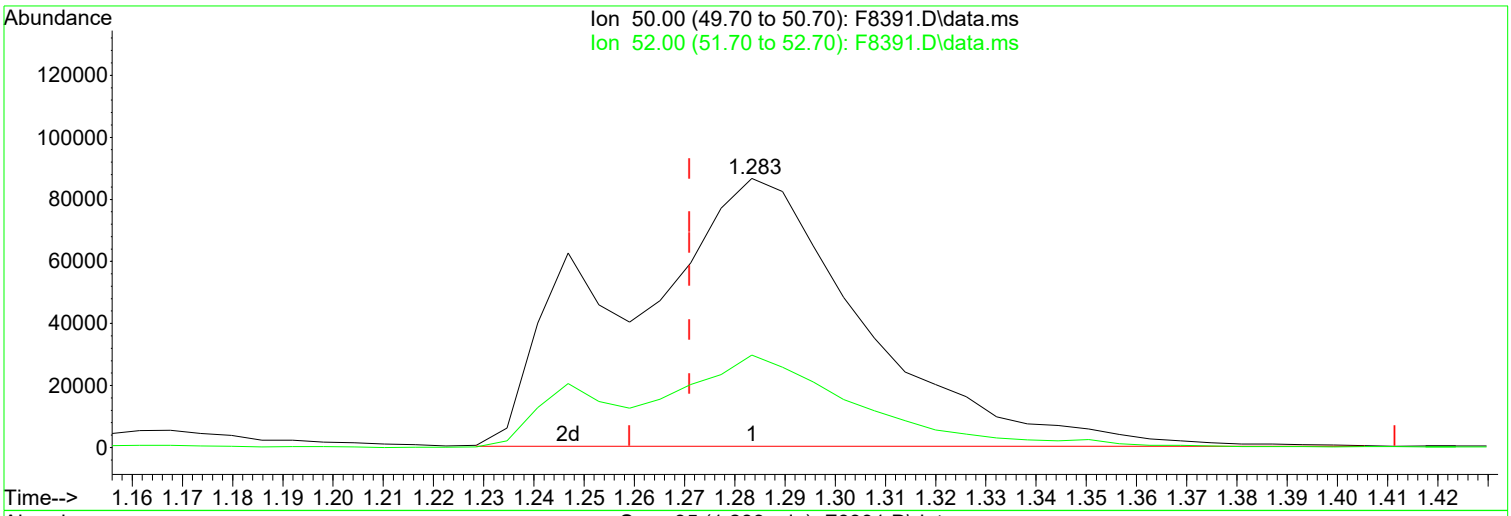
02/26/24

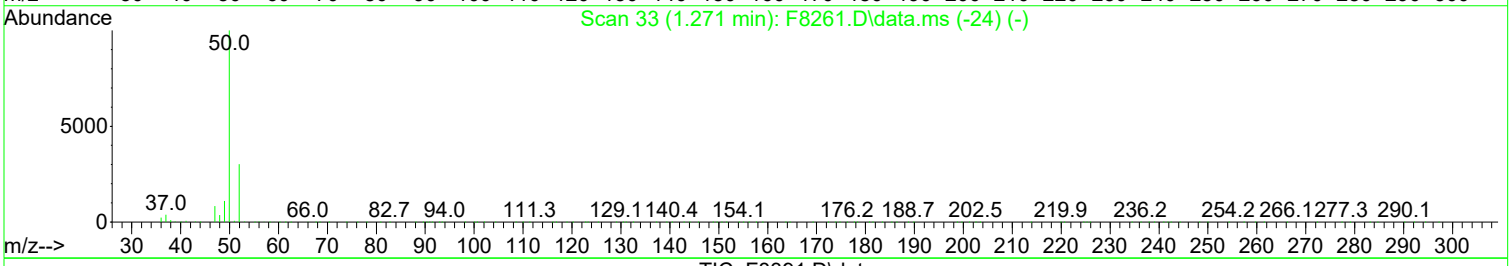
1st FJ 02/26/24
2nd AM 02/27/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8391.D
Acq On : 23 Feb 2024 09:16 pm
Operator : F.NAEGLER
Sample : R2401280-018DMS
Misc : CEC 25499 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Feb 25 12:25:11 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration





TIC: F8391.D\data.ms

(4) Chloromethane (P)

1.283min (+ 0.012) 57.04 ug/L m

response 290180

Ion	Exp%	Act%
50.00	100.00	100.00
52.00	30.30	34.41
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

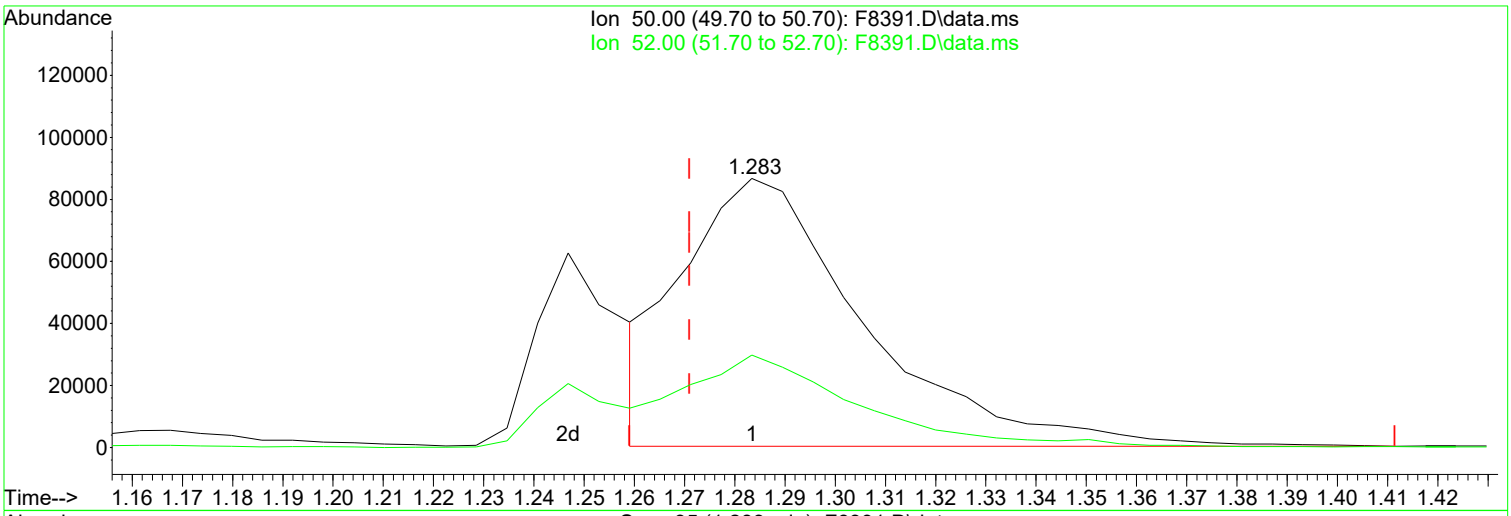
Poor integration.

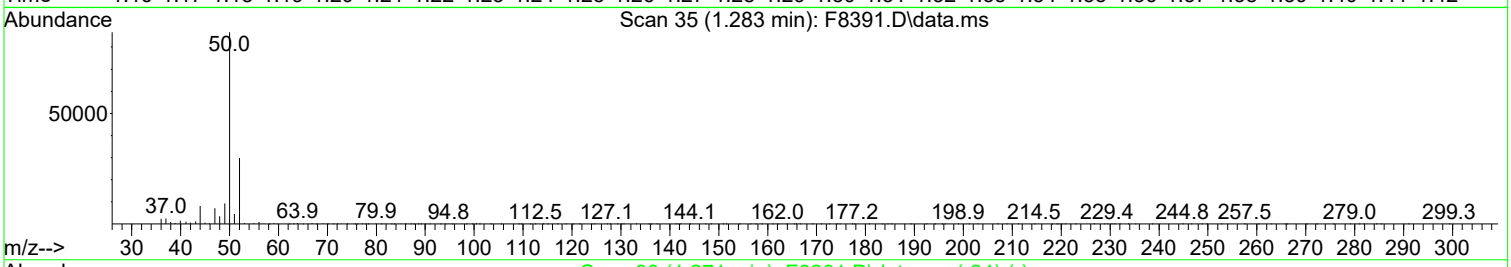
02/26/24

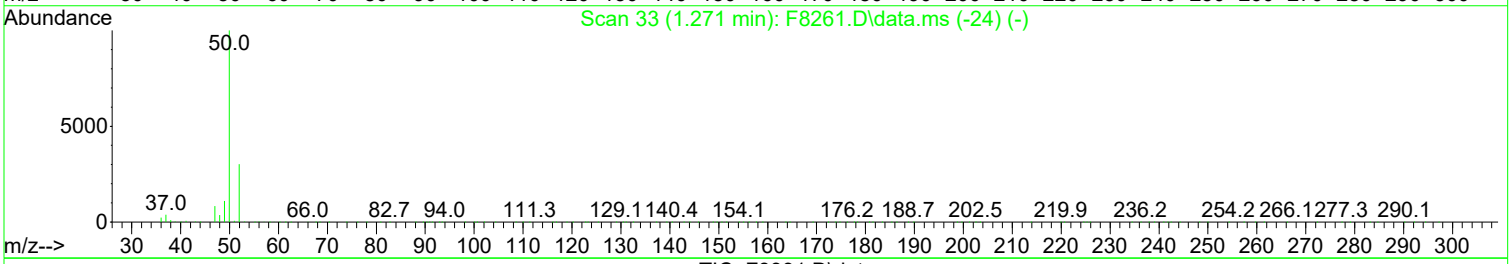
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8391.D
Acq On : 23 Feb 2024 09:16 pm
Operator : F.NAEGLER
Sample : R2401280-018DMS
Misc : CEC 25499 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Feb 25 12:25:11 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8391.D\data.ms

(4) Chloromethane (P)

1.283min (+ 0.012) 42.40 ug/L

response 219321

Ion	Exp%	Act%
50.00	100.00	100.00
52.00	30.30	34.41
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

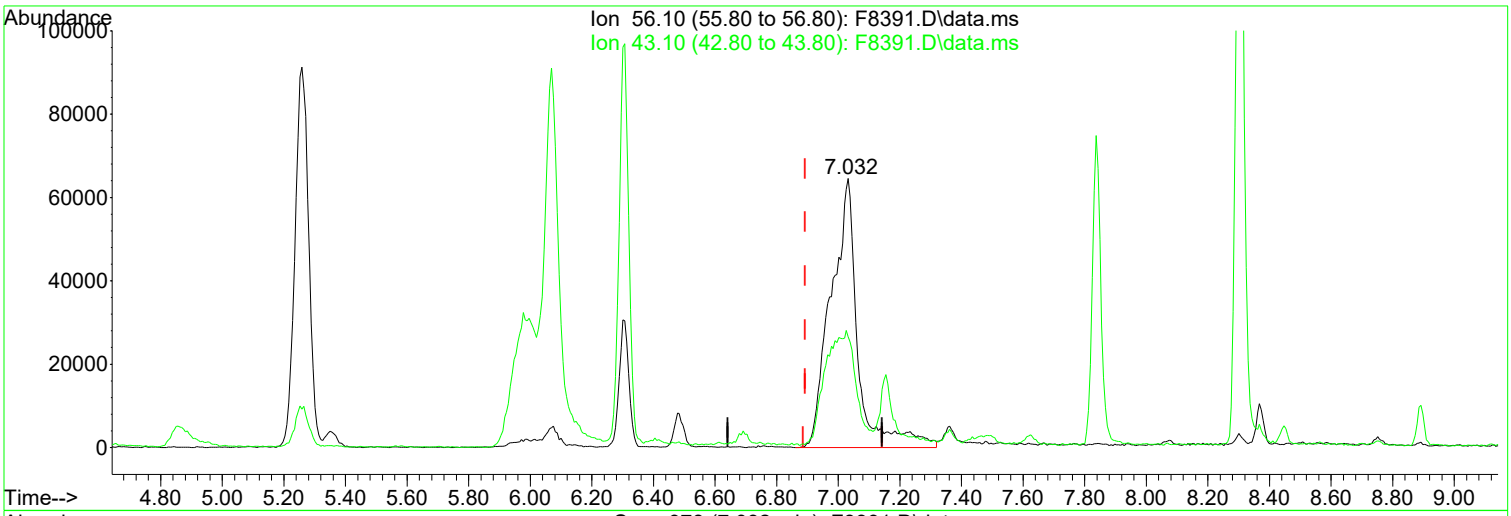
Before

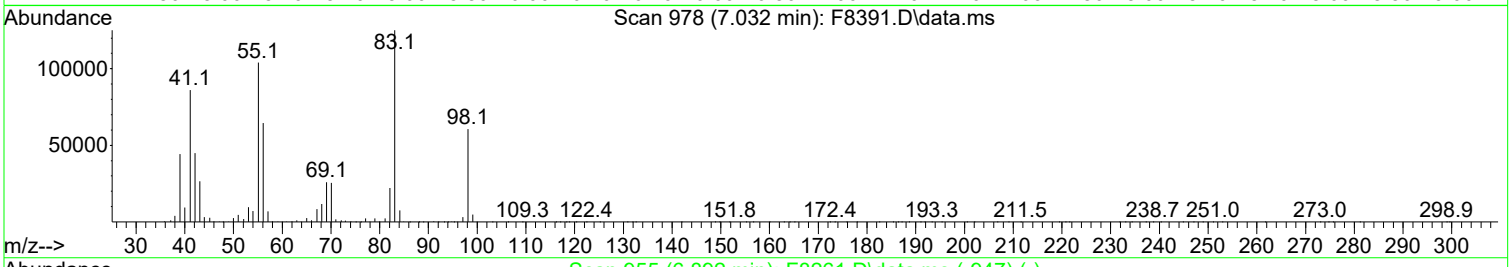
02/26/24

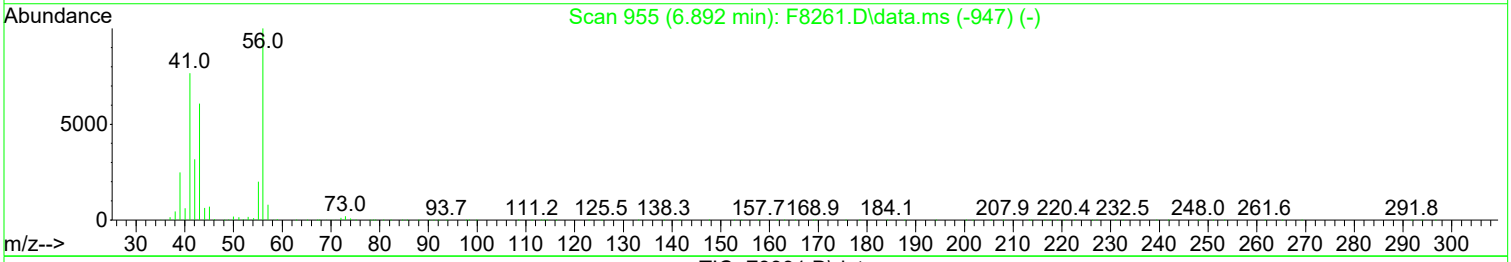
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8391.D
Acq On : 23 Feb 2024 09:16 pm
Operator : F.NAEGLER
Sample : R2401280-018DMS
Misc : CEC 25499 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Feb 25 12:25:11 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8391.D\data.ms

(53) 1-Butanol

7.032min (+ 0.140) 2140.72 ug/L m

response 390851

Ion	Exp%	Act%
56.10	100.00	100.00
43.10	60.90	41.19
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

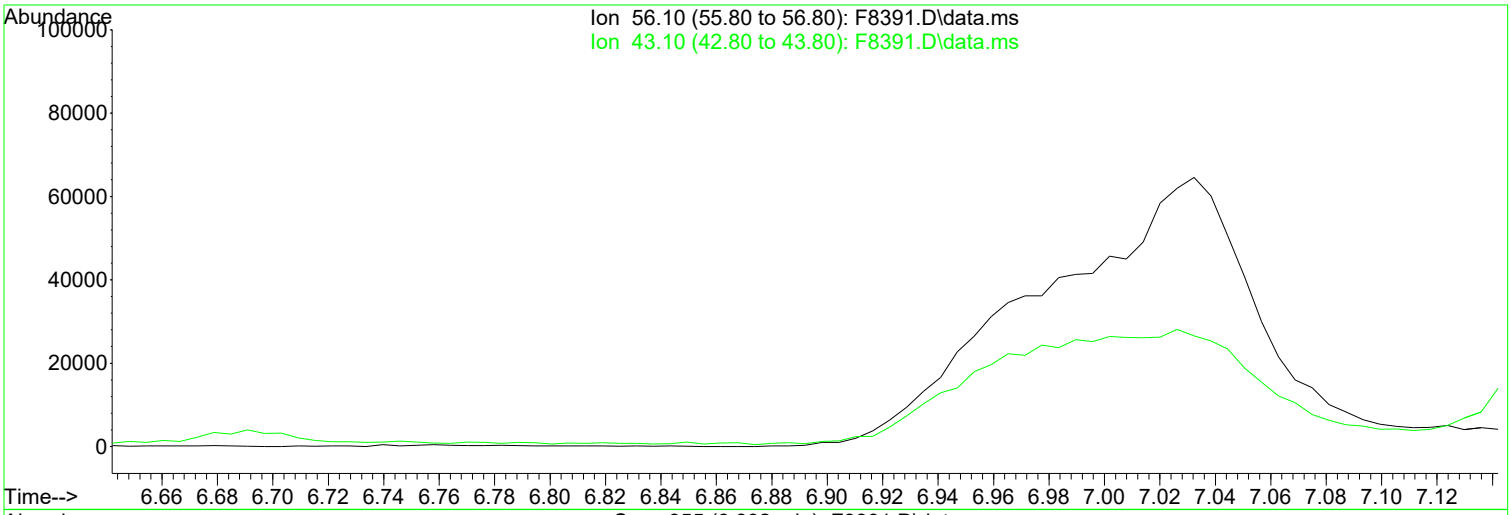
02/26/24

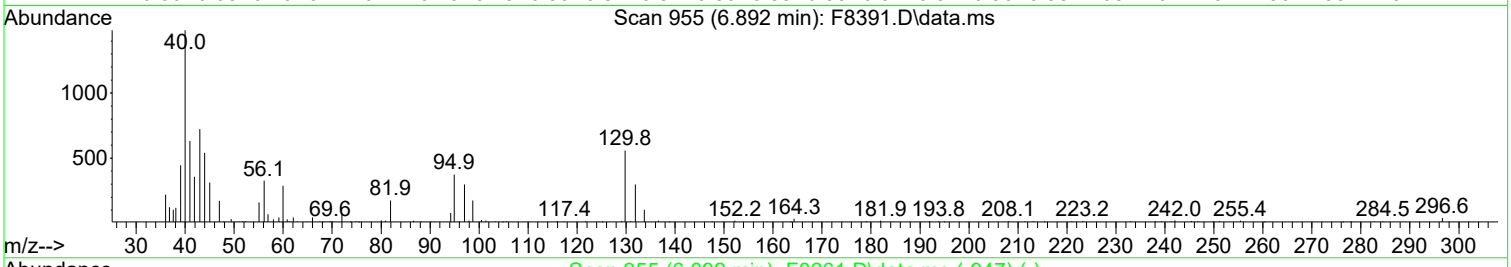
1st FJ 02/26/24
2nd AM 02/27/24

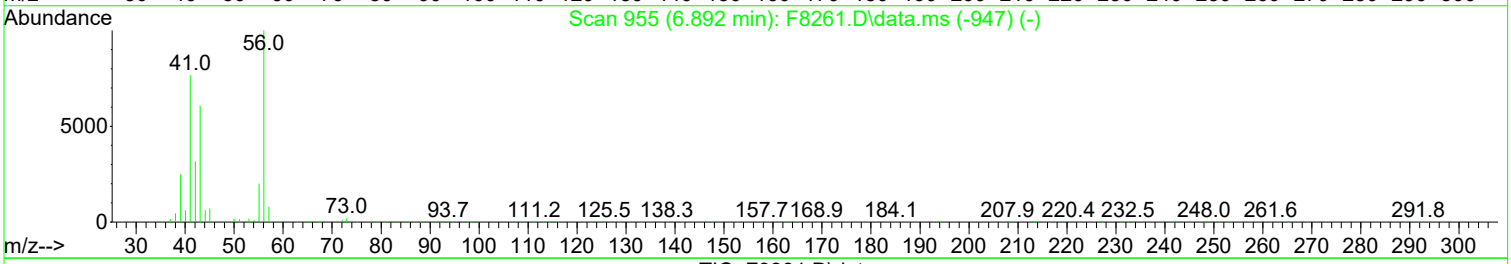
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8391.D
Acq On : 23 Feb 2024 09:16 pm
Operator : F.NAEGLER
Sample : R2401280-018DMS
Misc : CEC 25499 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Feb 25 12:25:11 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8391.D\data.ms

(53) 1-Butanol

6.892min (-6.892) 0.00 ug/L

response 0

Ion	Exp%	Act%
56.10	100.00	0.00
43.10	60.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

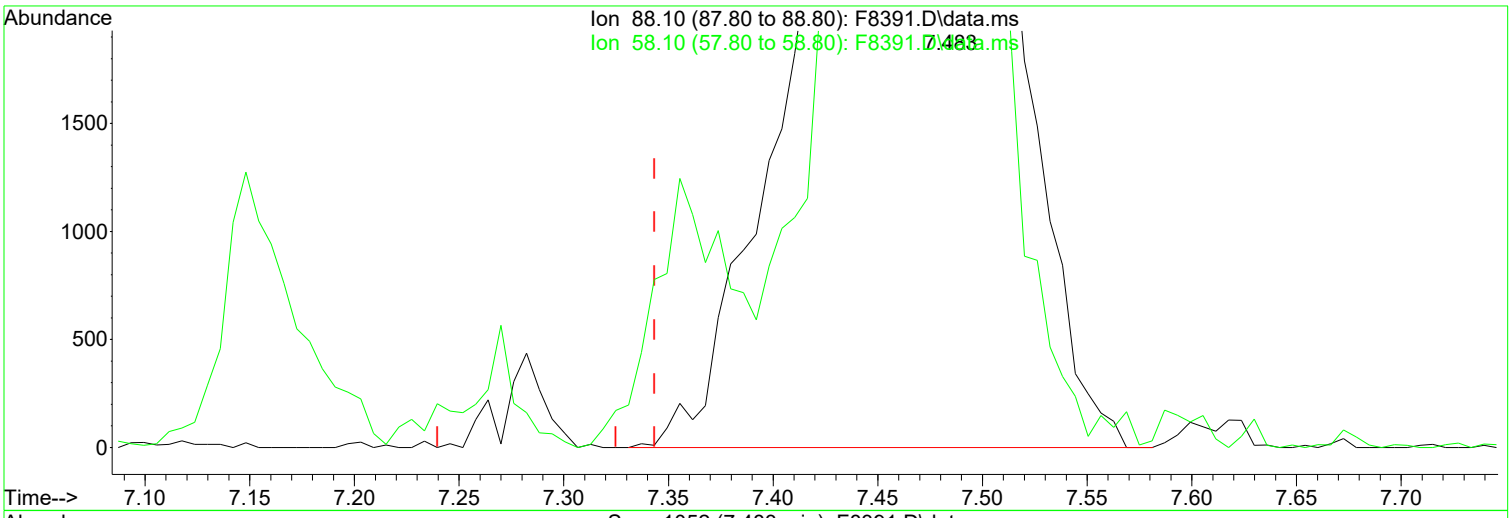
Before

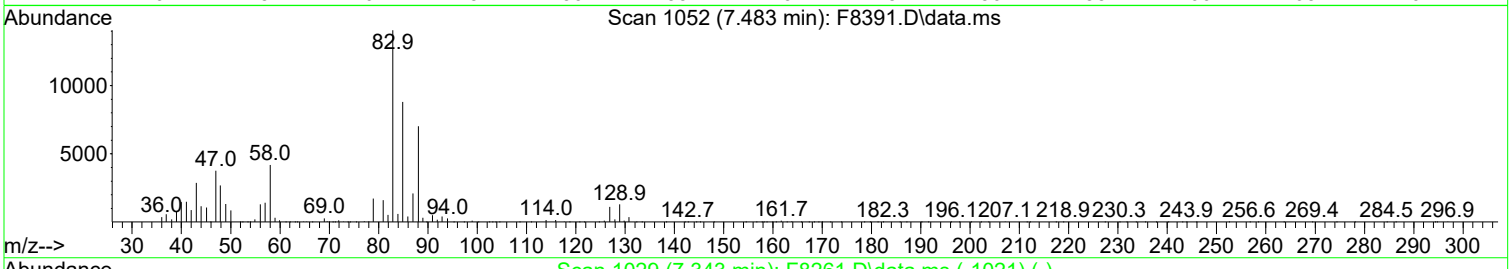
02/26/24

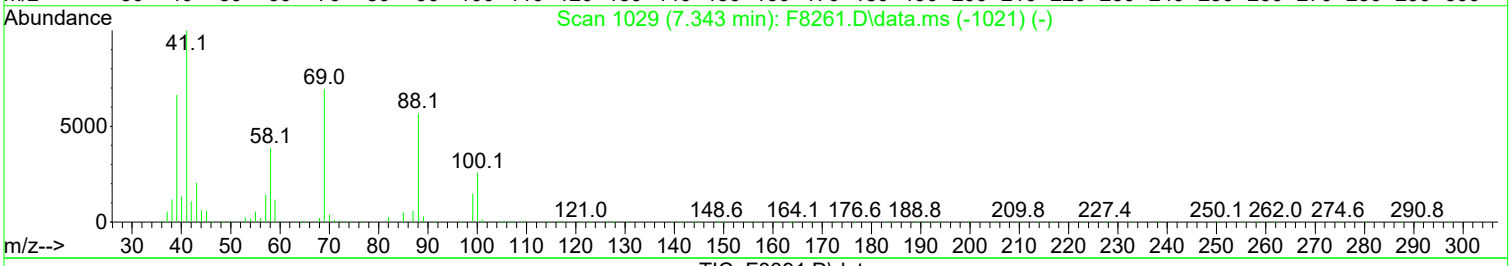
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8391.D
Acq On : 23 Feb 2024 09:16 pm
Operator : F.NAEGLER
Sample : R2401280-018DMS
Misc : CEC 25499 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Feb 25 12:25:11 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8391.D\data.ms

(58) 1,4-Dioxane

7.483min (+ 0.140) 323.81 ug/L m

response 34963

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	67.90	59.69
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

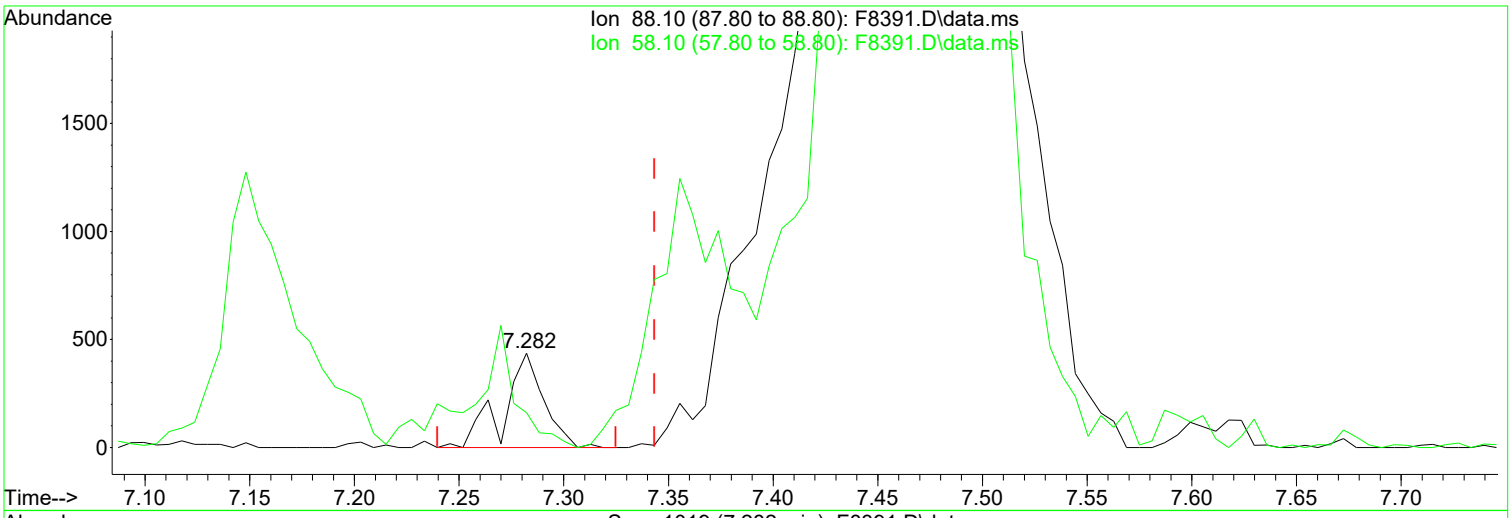
Peak not found.

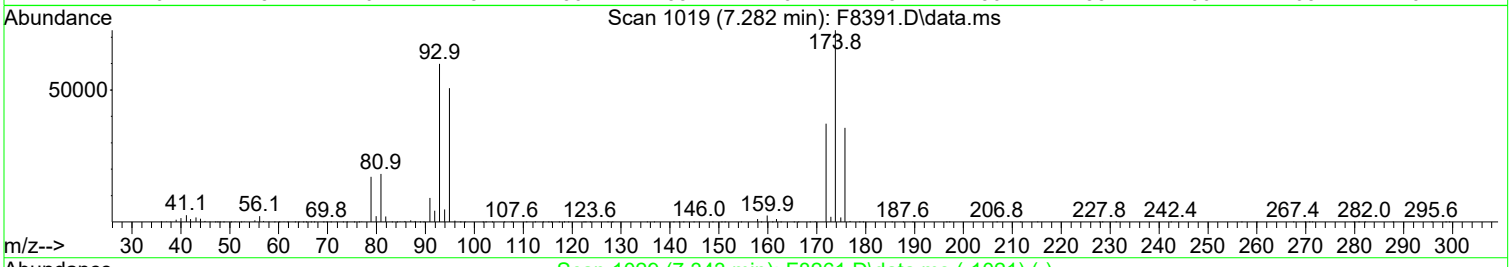
02/26/24

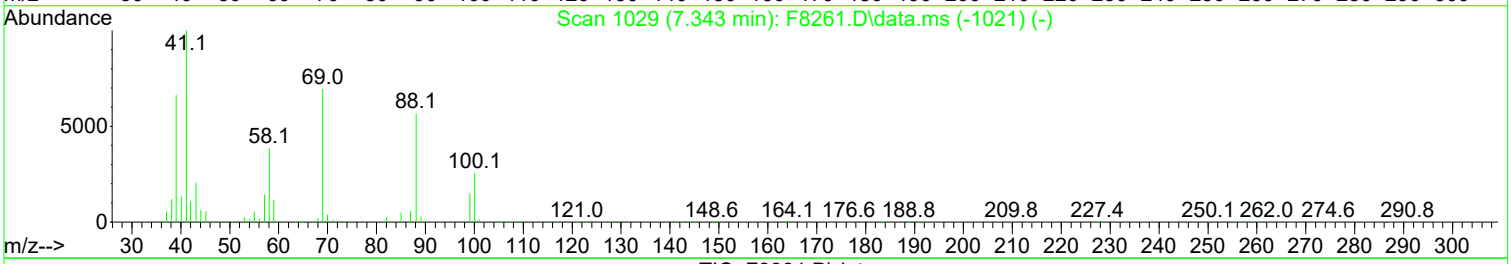
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8391.D
Acq On : 23 Feb 2024 09:16 pm
Operator : F.NAEGLER
Sample : R2401280-018DMS
Misc : CEC 25499 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Feb 25 12:25:11 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8391.D\data.ms

(58) 1,4-Dioxane

7.282min (-0.061) 5.42 ug/L

response 585

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	67.90	36.84#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

02/26/24

1st FJ 02/26/24
2nd AM 02/27/24

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8391.D
Acq On : 23 Feb 2024 09:16 pm
Operator : F.NAEGLER
Sample : R2401280-018DMS
Misc : CEC 25499 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Feb 25 12:25:11 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.356	168	483142	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.484	114	728298	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.934	117	684723	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	12.037	152	381102	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.222	113	227667	48.76	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 97.52%				
48) surr1,1,2-dichloroetha...	5.776	65	288009	47.00	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 94.00%				
65) SURR3,Toluene-d8	8.367	98	884809	46.59	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 93.18%				
70) SURR2,BFB	11.044	95	335682	46.54	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 93.08%				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.168	51	192733	48.013	ug/L		100
3) Dichlorodifluoromethane	1.119	85	149815m	29.646	ug/L		
4) Chloromethane	1.283	50	290180m	57.036	ug/L		
5) Vinyl Chloride	1.326	62	325407	55.493	ug/L		95
6) Bromomethane	1.564	94	104361	14.876	ug/L		96
7) Chloroethane	1.637	64	144385	27.319	ug/L		98
8) Freon 21	1.783	67	357306	36.660	ug/L		99
9) Trichlorofluoromethane	1.826	101	350120	45.370	ug/L		97
10) Diethyl Ether	2.052	59	199398	43.978	ug/L		98
11) Freon 123a	2.064	67	233436	43.704	ug/L		94
12) Freon 123	2.119	83	309693	55.582	ug/L		99
13) Acrolein	2.180	56	102160	95.951	ug/L		92
14) 1,1-Diclethene	2.241	96	181669	52.565	ug/L		97
15) Freon 113	2.241	101	181612	52.394	ug/L		93
16) Acetone	2.350	43	148604m	51.853	ug/L		
17) 2-Propanol	2.667	45	331333m	719.166	ug/L		
18) Iodomethane	2.381	142	159122	30.558	ug/L		100
19) Carbon Disulfide	2.430	76	418718	39.349	ug/L		99
20) Acetonitrile	2.576	41	187667m	153.350	ug/L		
21) Allyl Chloride	2.582	76	96431	45.598	ug/L	#	36
22) Methyl Acetate	2.625	43	268638	38.014	ug/L		99
23) Methylene Chloride	2.704	84	177341	41.015	ug/L		98
24) TBA	2.978	59	692060m	863.044	ug/L		
25) Acrylonitrile	2.996	53	546989	207.121	ug/L		99
26) Methyl-t-Butyl Ether	2.990	73	618573	40.926	ug/L		96
27) trans-1,2-Dichloroethene	2.984	96	185004	44.617	ug/L		96
28) 1,1-Diclethane	3.490	63	351824	44.749	ug/L		99
29) Vinyl Acetate	3.588	86	33397	51.458	ug/L	#	73
30) DIPE	3.594	45	621752	43.364	ug/L		92
31) 2-Chloro-1,3-Butadiene	3.606	53	312448	42.423	ug/L		95
32) ETBE	4.124	59	529319	39.022	ug/L		98
33) 2,2-Dichloropropane	4.319	77	234281	42.241	ug/L		95
34) cis-1,2-Dichloroethene	4.338	96	355478	72.241	ug/L		94
35) 2-Butanone	4.441	43	210495	54.015	ug/L		98
36) Propionitrile	4.588	54	240926	206.439	ug/L		99
37) Bromochloromethane	4.740	130	142936	43.944	ug/L		99
38) Methacrylonitrile	4.783	67	117130	41.030	ug/L		99
39) Tetrahydrofuran	4.856	42	98046	37.904	ug/L		99
40) Chloroform	4.923	83	356459	43.515	ug/L		97

1st FW 02/26/24
2nd AM 02/27/24

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8391.D
Acq On : 23 Feb 2024 09:16 pm
Operator : F.NAEGLER
Sample : R2401280-018DMS
Misc : CEC 25499 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Feb 25 12:25:11 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-Trichloroethane	5.197	97	296357	46.032	ug/L	99
42) TAME	6.069	73	568885	42.681	ug/L	92
44) Cyclohexane	5.258	41	170803	40.801	ug/L	97
46) Carbontetrachloride	5.466	117	238660	53.179	ug/L	98
47) 1,1-Dichloropropene	5.490	75	260871	49.192	ug/L	96
49) Benzene	5.831	78	796739	48.936	ug/L	99
50) 1,2-Dichloroethane	5.898	62	299176	41.924	ug/L	98
51) Iso-Butyl Alcohol	5.978	43	158060	501.885	ug/L	95
52) n-Heptane	6.307	43	210193	42.950	ug/L	97
53) 1-Butanol	7.032	56	390851m	2140.716	ug/L	
54) Trichloroethene	6.813	130	590812	135.360	ug/L	98
55) Methylcyclohexane	7.032	55	263725	51.264	ug/L	93
56) 1,2-Diclpropane	7.118	63	212526	47.474	ug/L	99
57) Dibromomethane	7.276	93	146859	44.092	ug/L	91
58) 1,4-Dioxane	7.483	88	34963m	323.814	ug/L	
59) Methyl Methacrylate	7.361	69	191787	47.367	ug/L	97
60) Bromodichloromethane	7.508	83	266227	46.608	ug/L	100
61) 2-Nitropropane	7.837	41	125918	84.769	ug/L	96
63) cis-1,3-Dichloropropene	8.075	75	323798	47.876	ug/L	99
64) 4-Methyl-2-pentanone	8.300	43	323664	44.343	ug/L	98
66) Toluene	8.447	91	886148	47.522	ug/L	99
67) trans-1,3-Dichloropropene	8.751	75	291016	48.353	ug/L	99
68) Ethyl Methacrylate	8.892	69	328647	48.289	ug/L	97
69) 1,1,2-Trichloroethane	8.953	97	202222	44.384	ug/L	99
72) Tetrachloroethene	9.062	164	171607	52.664	ug/L	96
73) 2-Hexanone	9.264	43	247512	46.607	ug/L	98
74) 1,3-Dichloropropane	9.123	76	357270	45.753	ug/L	99
75) Dibromochloromethane	9.361	129	211384	47.433	ug/L	96
76) N-Butyl Acetate	9.410	43	380138	39.482	ug/L	98
77) 1,2-Dibromoethane	9.459	107	219245	46.871	ug/L	99
78) 3-Chlorobenzotrifluoride	9.983	180	303564	48.537	ug/L	96
79) Chlorobenzene	9.965	112	583961	46.769	ug/L	98
80) 4-Chlorobenzotrifluoride	10.044	180	265583	49.627	ug/L	97
81) 1,1,1,2-Tetrachloroethane	10.056	131	193716	50.574	ug/L	96
82) Ethylbenzene	10.087	106	305071	48.936	ug/L	98
83) (m+p)Xylene	10.202	106	781788	99.875	ug/L	99
84) o-Xylene	10.568	106	378057	47.699	ug/L	98
85) Styrene	10.586	104	651393	49.033	ug/L	99
86) Bromoform	10.751	173	157020	51.649	ug/L	99
87) 2-Chlorobenzotrifluoride	10.830	180	307950	49.865	ug/L	99
88) Isopropylbenzene	10.910	105	948438	47.852	ug/L	100
89) Cyclohexanone	11.013	55	177400	123.601	ug/L	98
90) trans-1,4-Dichloro-2-B...	11.245	53	79386	37.004	ug/L	95
92) 1,1,2,2-Tetrachloroethane	11.196	83	330084	46.590	ug/L	99
93) Bromobenzene	11.166	156	260108	47.282	ug/L	98
94) 1,2,3-Trichloropropane	11.227	110	104292	43.731	ug/L	92
95) n-Propylbenzene	11.275	91	1141710	46.874	ug/L	100
96) 2-Chlorotoluene	11.342	91	658006	44.866	ug/L	98
97) 3-Chlorotoluene	11.397	91	667468	44.646	ug/L	98
98) 4-Chlorotoluene	11.440	91	793359	46.885	ug/L	99
99) 1,3,5-Trimethylbenzene	11.434	105	808430	46.525	ug/L	98
100) tert-Butylbenzene	11.708	119	708205	48.849	ug/L	99
101) 1,2,4-Trimethylbenzene	11.751	105	809354	46.360	ug/L	98
102) 3,4-Dichlorobenzotrifl...	11.818	214	235396	47.624	ug/L	97
103) sec-Butylbenzene	11.891	105	999213	47.651	ug/L	98
104) p-Isopropyltoluene	12.019	119	872830	49.482	ug/L	98

1st FJ 02/26/24
2nd AM 02/27/24

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8391.D
Acq On : 23 Feb 2024 09:16 pm
Operator : F.NAEGLER
Sample : R2401280-018DMS
Misc : CEC 25499 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Feb 25 12:25:11 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

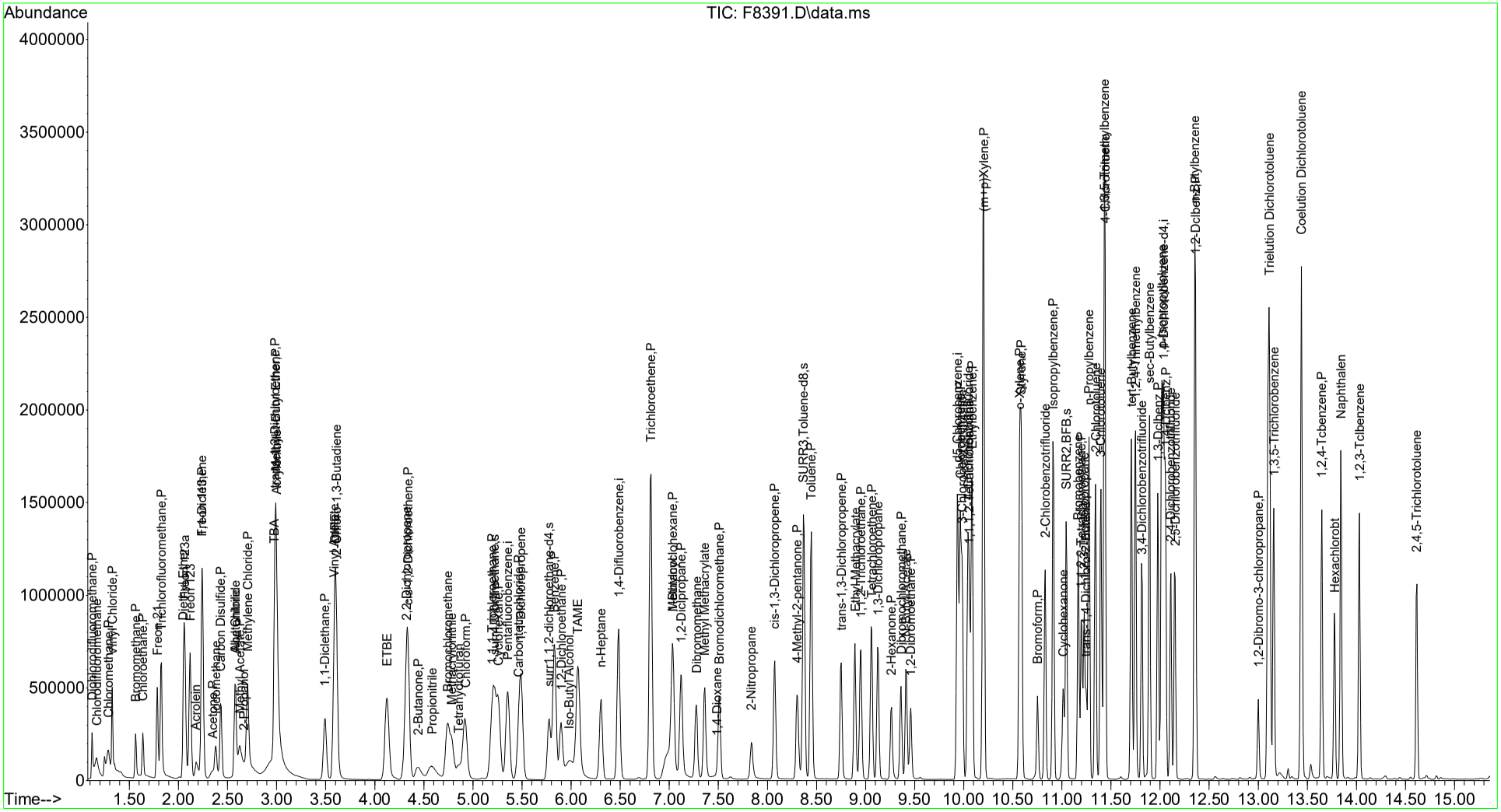
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.976	146	478448	48.003	ug/L	100
106) 1,4-Dclbenz	12.056	146	486803	44.625	ug/L	99
107) 2,4-Dichlorobenzotrifl...	12.111	214	215093	47.697	ug/L	98
108) 2,5-Dichlorobenzotrifl...	12.153	214	242733	48.118	ug/L	97
109) n-Butylbenzene	12.354	91	746856	47.674	ug/L	99
110) 1,2-Dclbenz	12.361	146	471549	45.660	ug/L	99
111) 1,2-Dibromo-3-chloropr...	13.001	157	81667	51.895	ug/L	98
112) Trielution Dichlorotol...	13.110	125	1156742	137.572	ug/L	99
113) 1,3,5-Trichlorobenzene	13.159	180	343654	46.835	ug/L	100
114) Coelution Dichlorotoluene	13.440	125	850847	92.054	ug/L	99
115) 1,2,4-Tcbenzene	13.647	180	335957	48.657	ug/L	97
116) Hexachlorobt	13.781	225	133450	48.408	ug/L	97
117) Naphthalen	13.842	128	1022194	45.494	ug/L	100
118) 1,2,3-Tclbenzene	14.031	180	333655	48.476	ug/L	99
119) 2,4,5-Trichlorotoluene	14.616	159	216653	46.108	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8391.D
Acq On : 23 Feb 2024 09:16 pm
Operator : F.NAEGLER
Sample : R2401280-018DMS
Misc : CEC 25499 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Feb 25 12:25:11 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

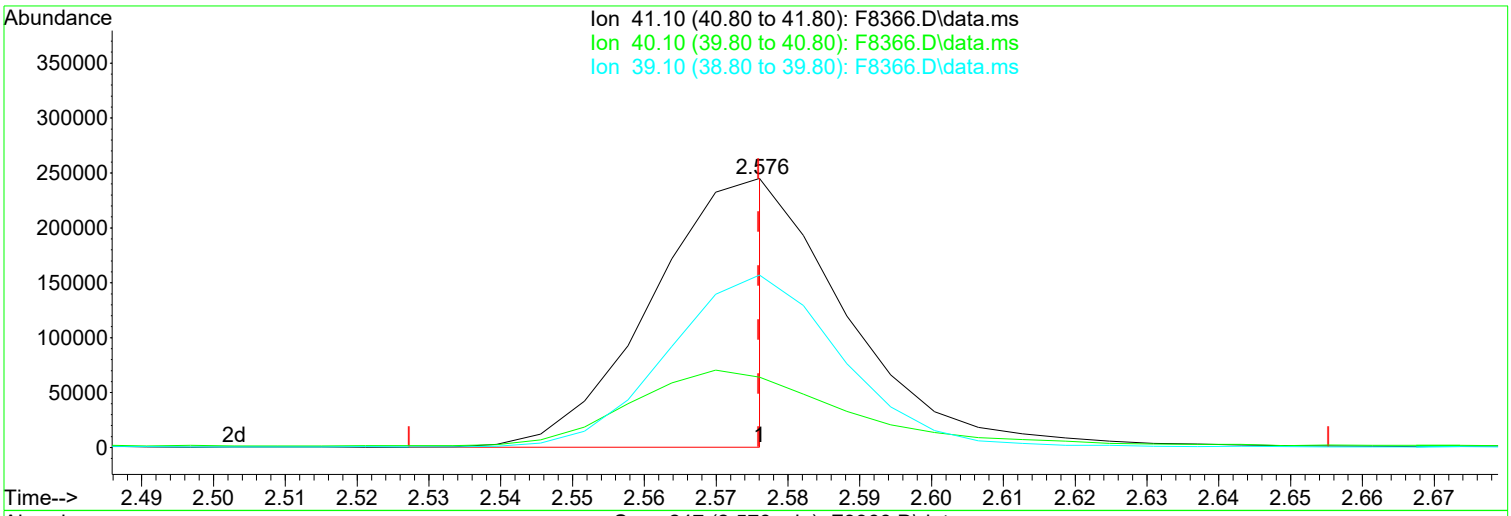


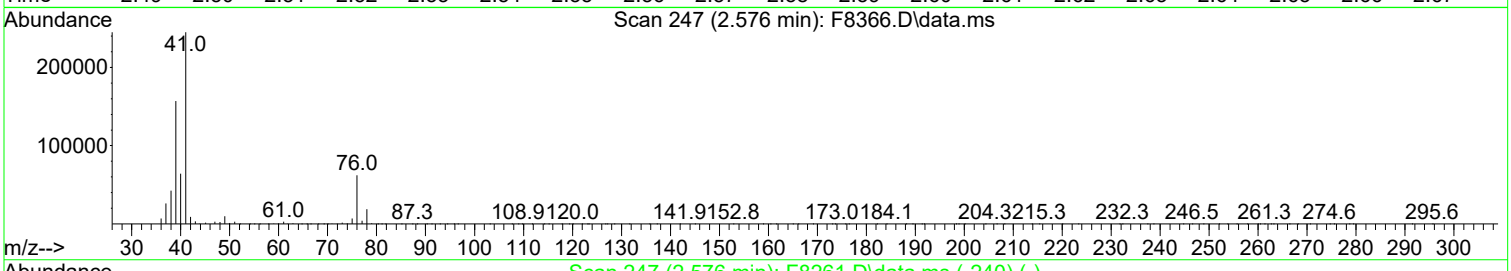
1st FJ 02/26/24
2nd AM 02/27/24

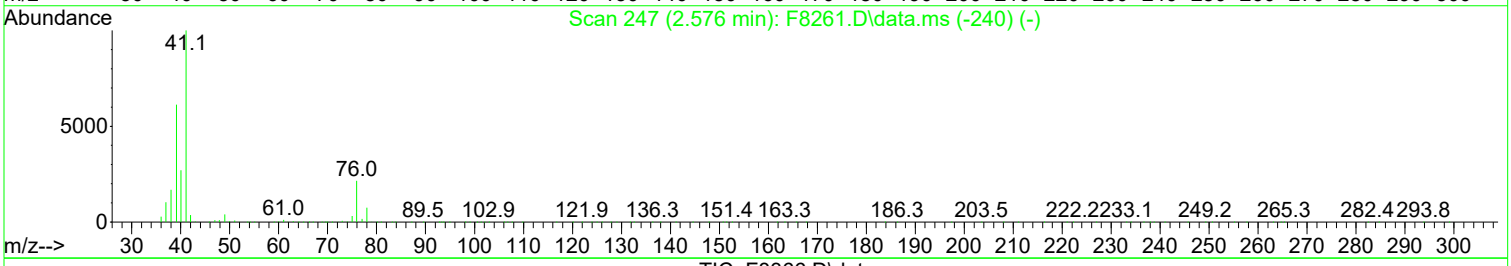
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8366.D
Acq On : 23 Feb 2024 11:10 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 23 11:28:14 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8366.D\data.ms

(20) Acetonitrile

2.576min (+ 0.000) 260.90 ug/L m

response 292227

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	27.60	26.19
39.10	61.30	64.12
0.00	0.00	0.00

Manual Integration:

After

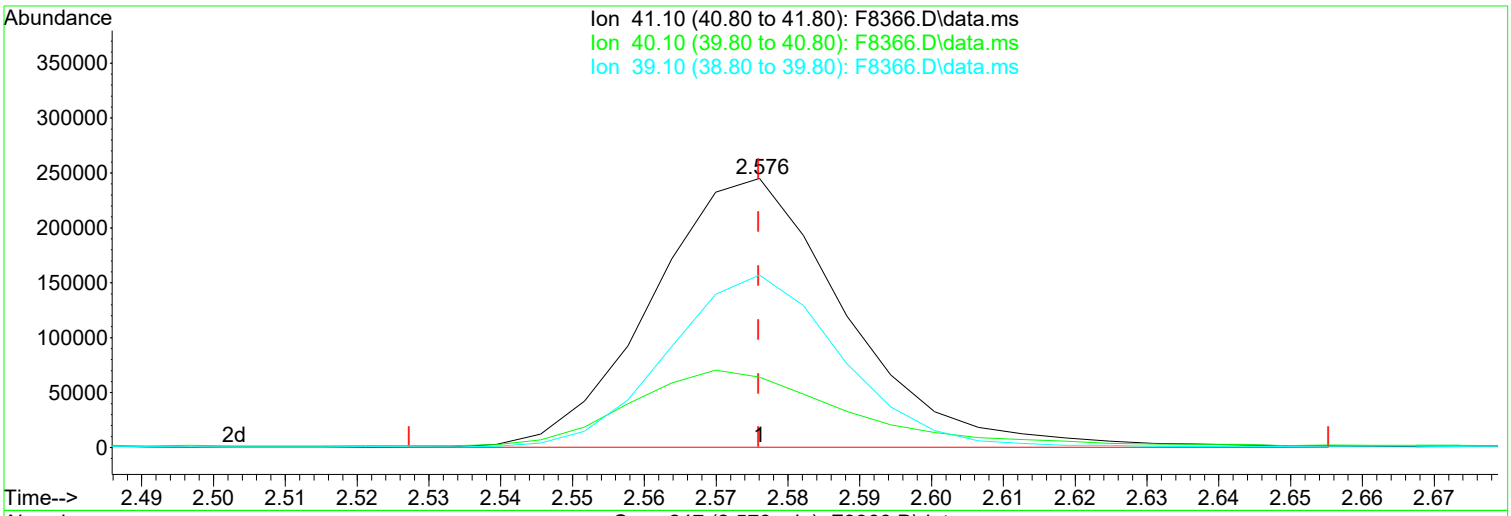
Poor integration.

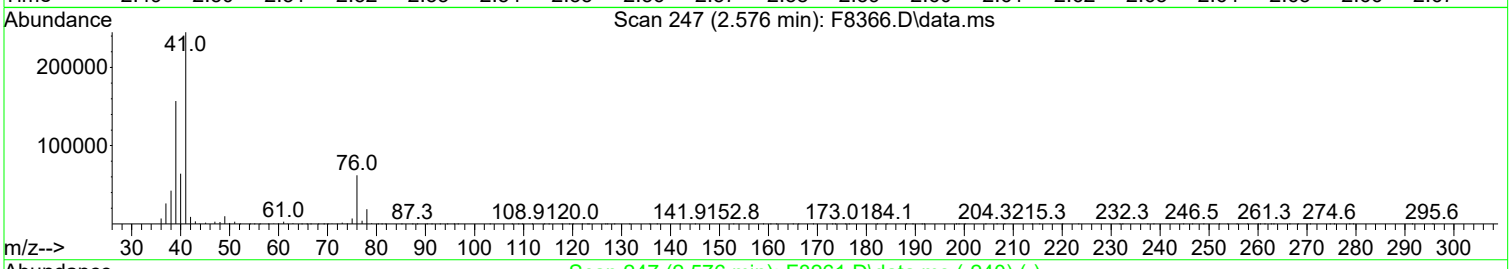
02/23/24

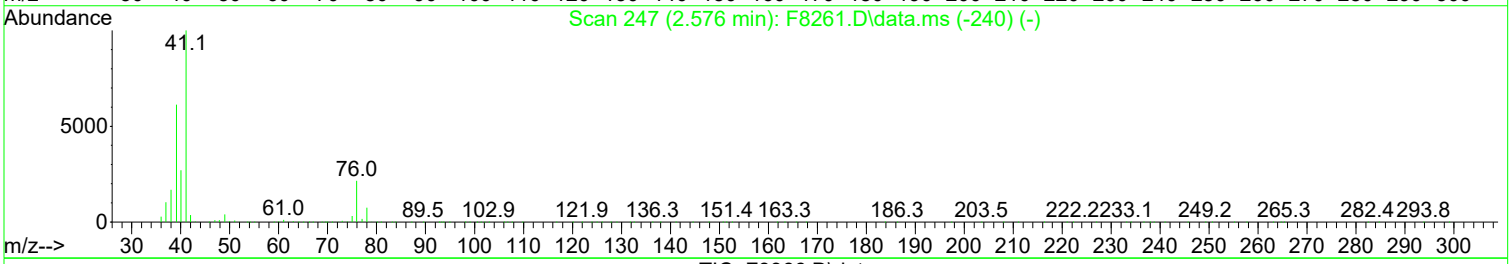
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8366.D
Acq On : 23 Feb 2024 11:10 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 23 11:28:14 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8366.D\data.ms

(20) Acetonitrile

2.576min (+ 0.000) 413.51 ug/L

response 463173

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	27.60	26.19
39.10	61.30	64.12
0.00	0.00	0.00

Manual Integration:

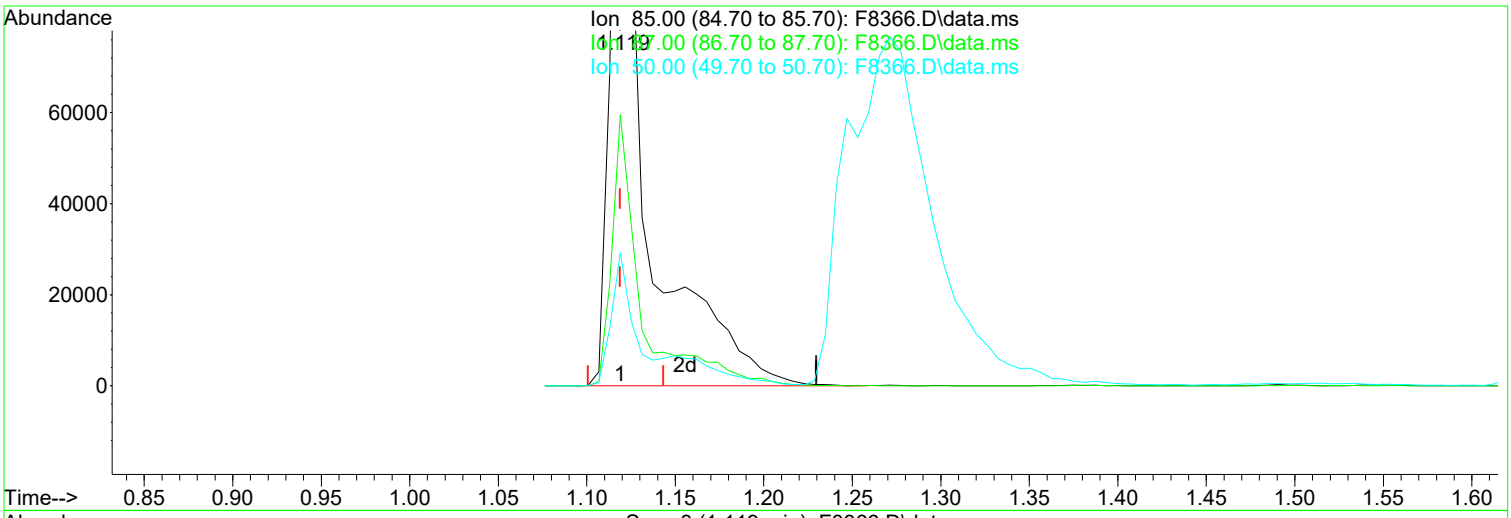
Before

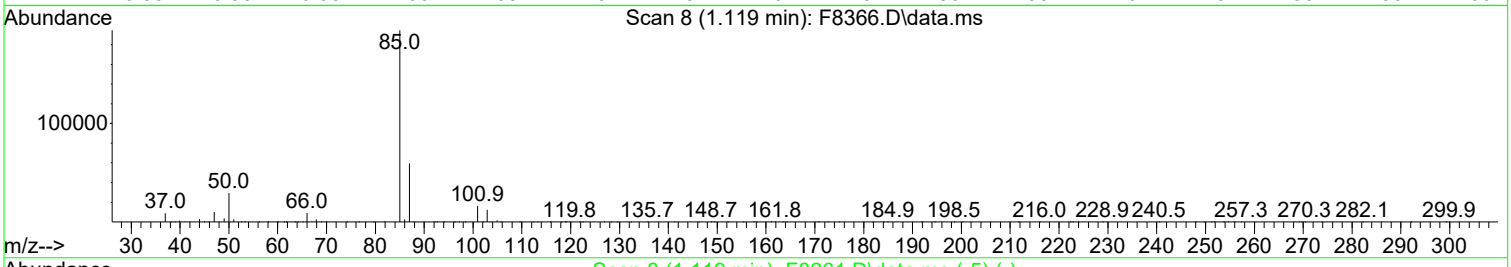
02/23/24

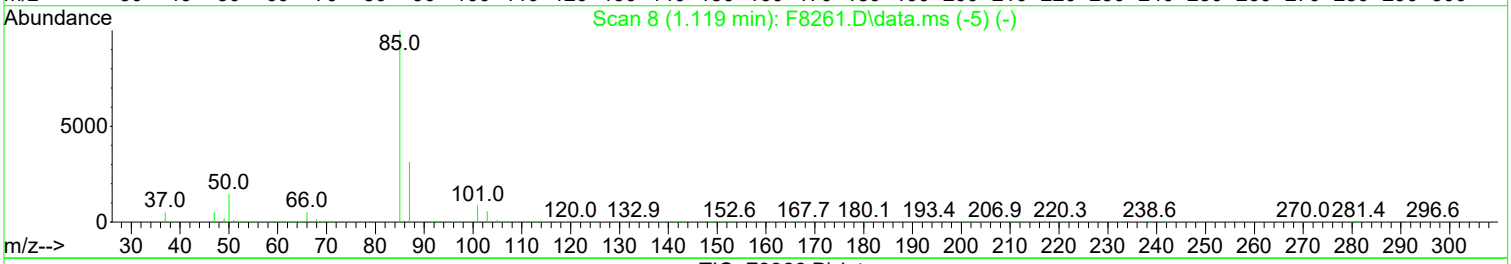
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8366.D
Acq On : 23 Feb 2024 11:10 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 23 11:28:14 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8366.D\data.ms

(3) Dichlorodifluoromethane (P)

1.119min (+ 0.000) 46.39 ug/L m

response 214589

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.30	30.59
50.00	14.60	15.03
0.00	0.00	0.00

Manual Integration:

After

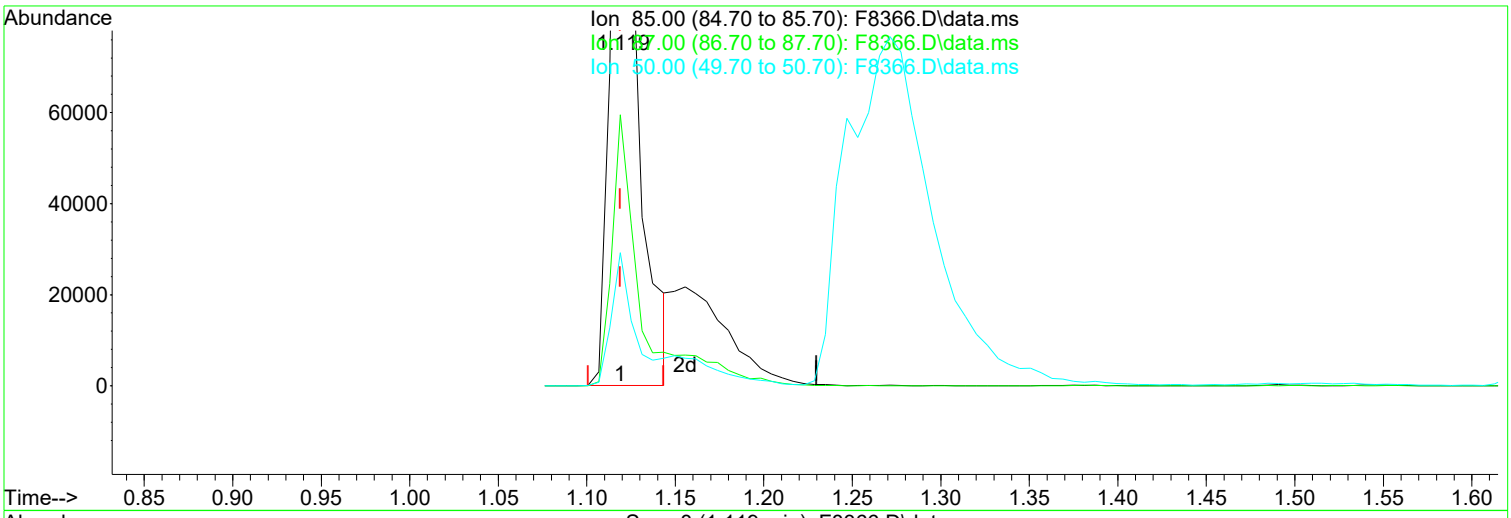
Poor integration.

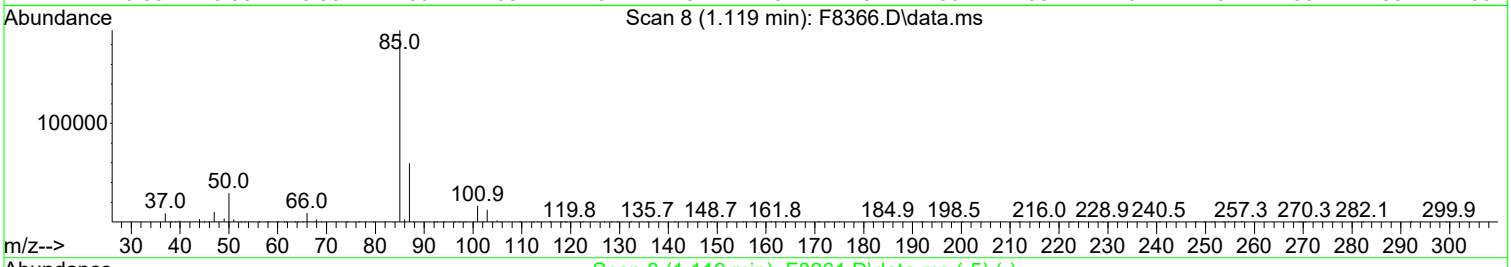
02/23/24

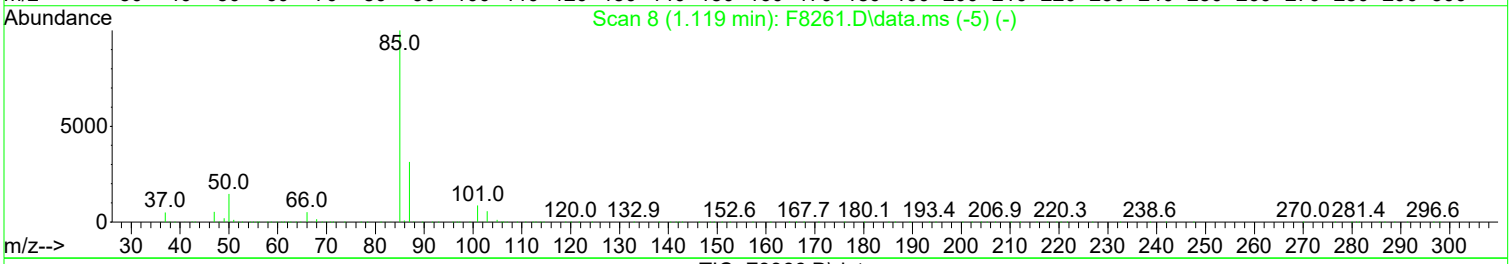
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8366.D
Acq On : 23 Feb 2024 11:10 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 23 11:28:14 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8366.D\data.ms

(3) Dichlorodifluoromethane (P)

1.119min (+ 0.000) 35.92 ug/L

response 166140

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.30	30.59
50.00	14.60	15.03
0.00	0.00	0.00

Manual Integration:

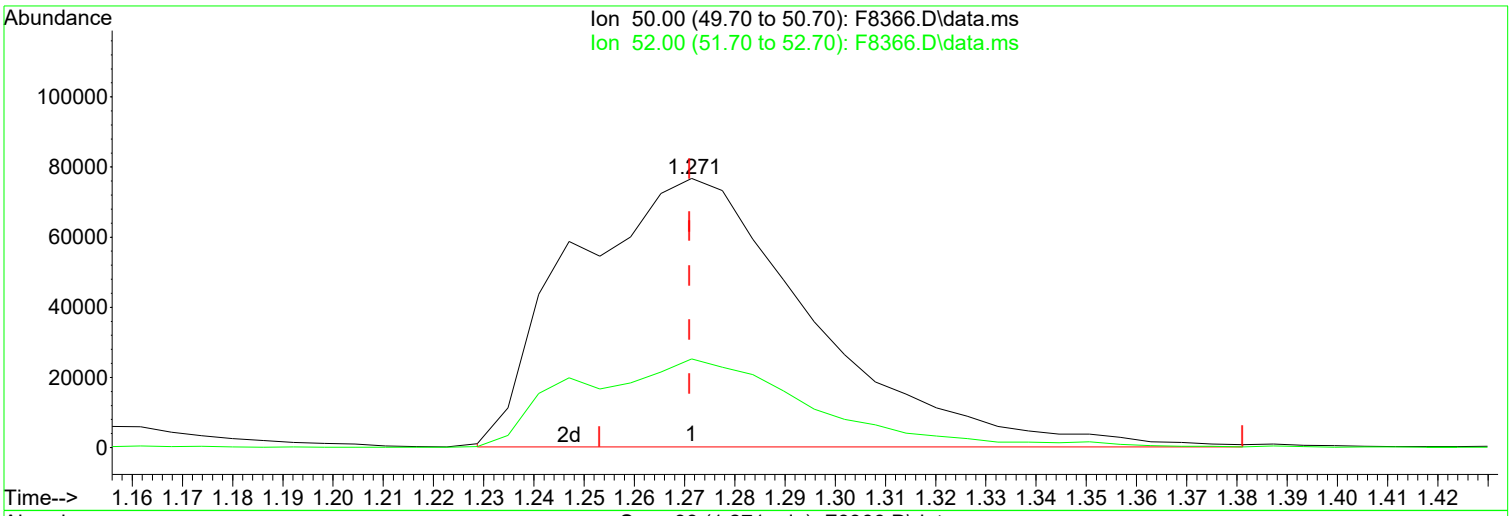
Before

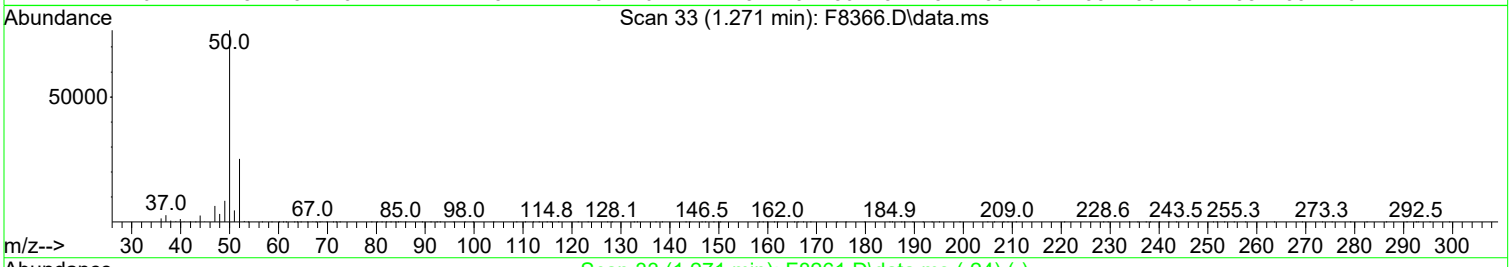
02/23/24

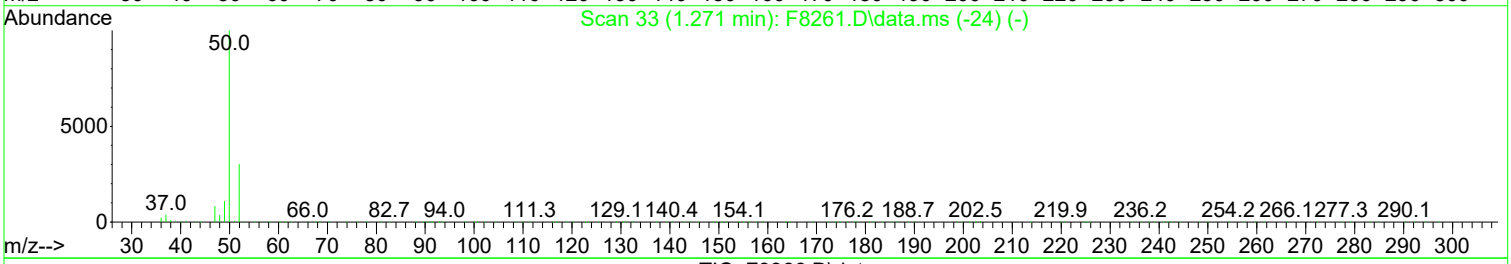
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8366.D
Acq On : 23 Feb 2024 11:10 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 23 11:28:14 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8366.D\data.ms

(4) Chloromethane (P)

1.271min (+ 0.000) 54.49 ug/L m

response 254442

Ion	Exp%	Act%
50.00	100.00	100.00
52.00	30.30	32.92
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

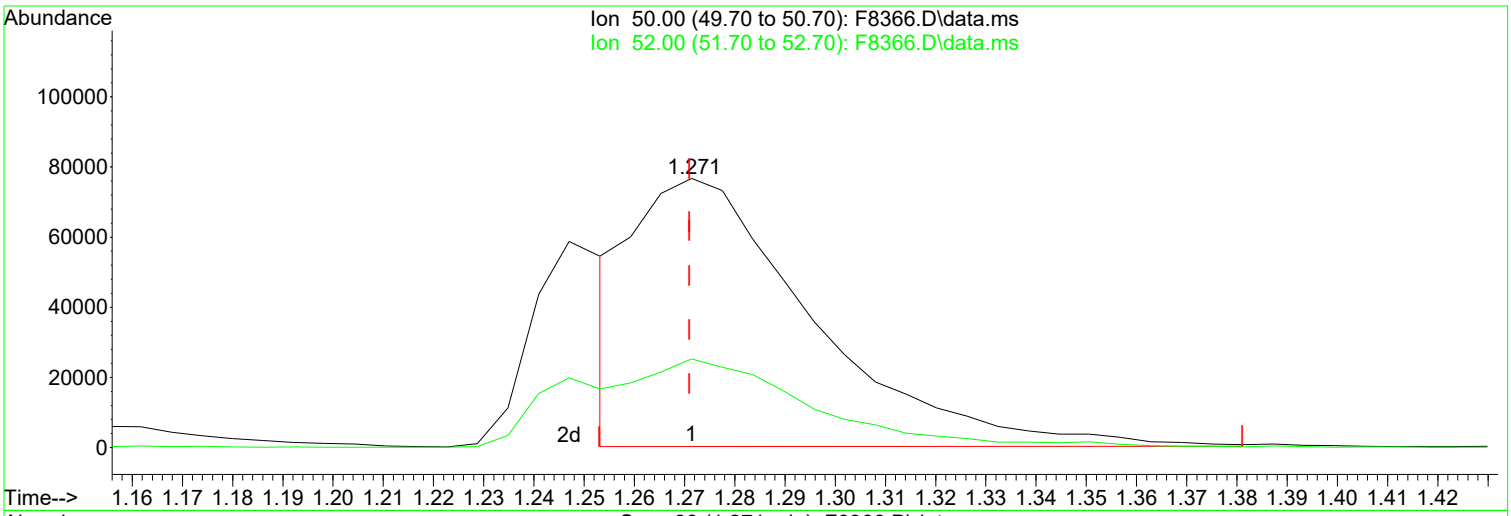
Poor integration.

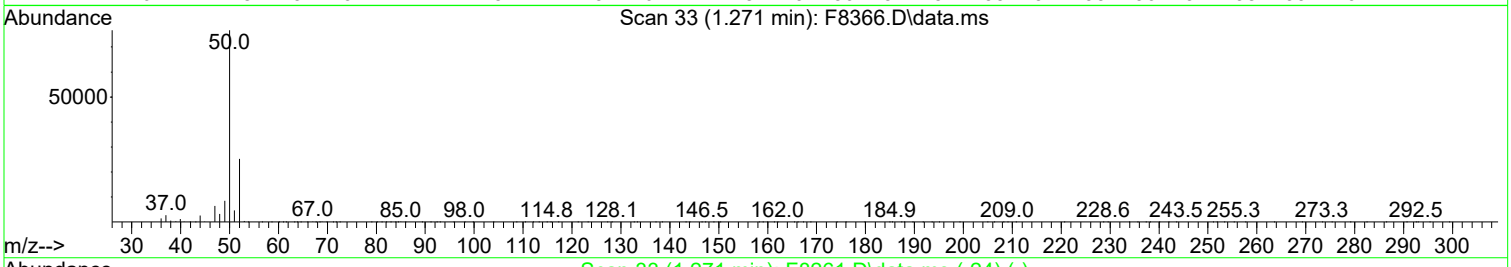
02/23/24

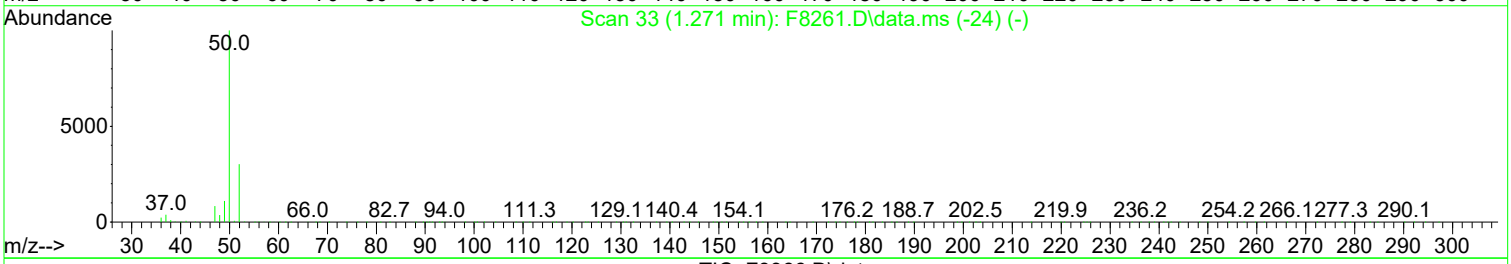
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8366.D
Acq On : 23 Feb 2024 11:10 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 23 11:28:14 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8366.D\data.ms

(4) Chloromethane (P)

1.271min (+ 0.000) 40.55 ug/L

response 192372

Ion	Exp%	Act%
50.00	100.00	100.00
52.00	30.30	32.92
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

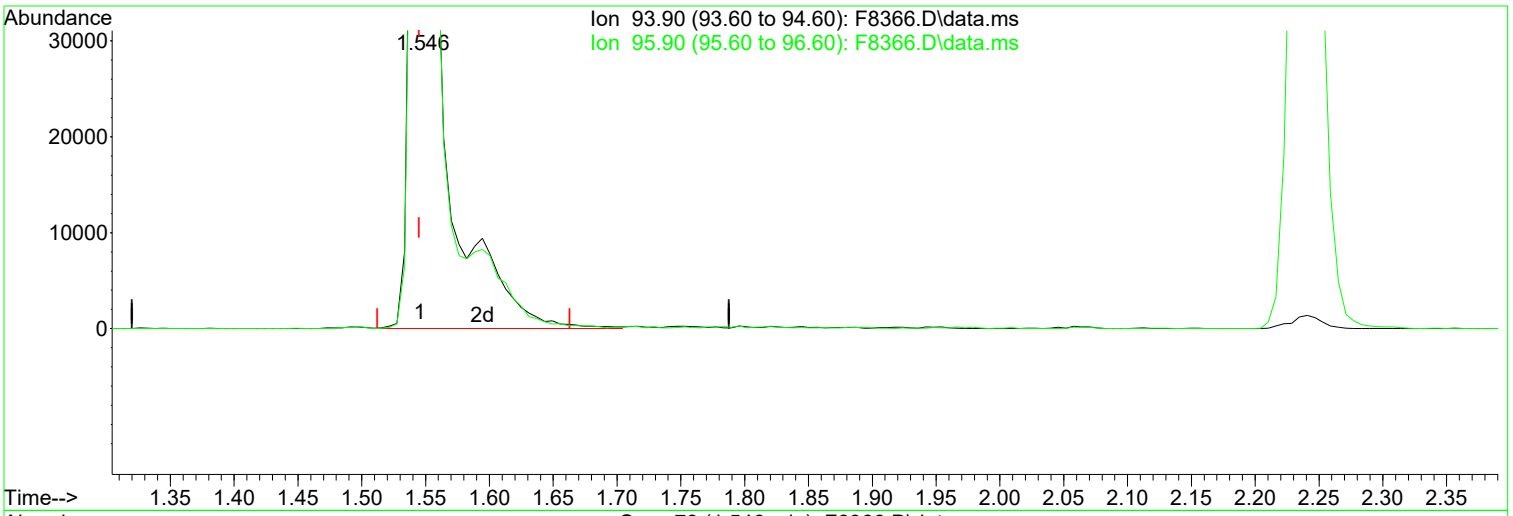
Before

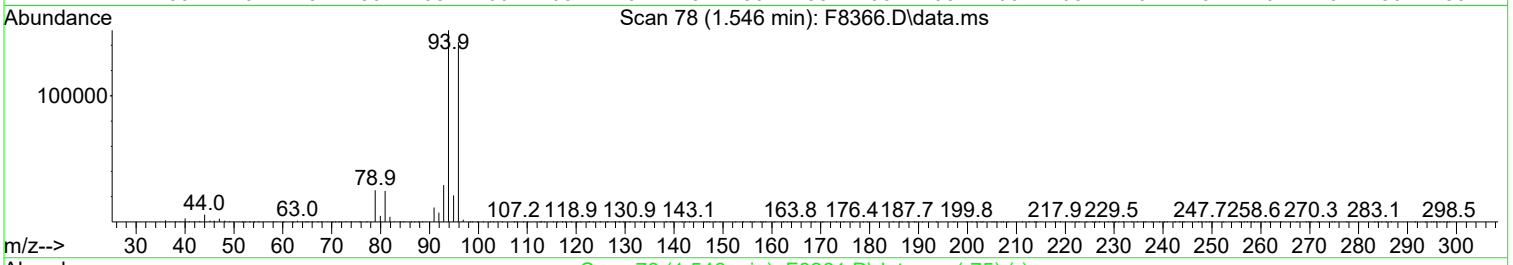
02/23/24

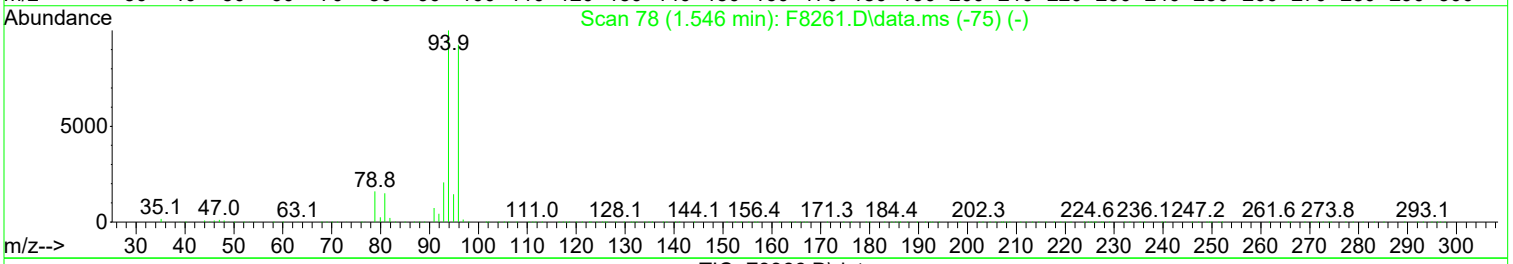
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8366.D
Acq On : 23 Feb 2024 11:10 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 23 11:28:14 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8366.D\data.ms

(6) Bromomethane (P)

1.546min (+ 0.001) 29.35 ug/L m

response 179192

Ion	Exp%	Act%
93.90	100.00	100.00
95.90	92.30	93.89
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

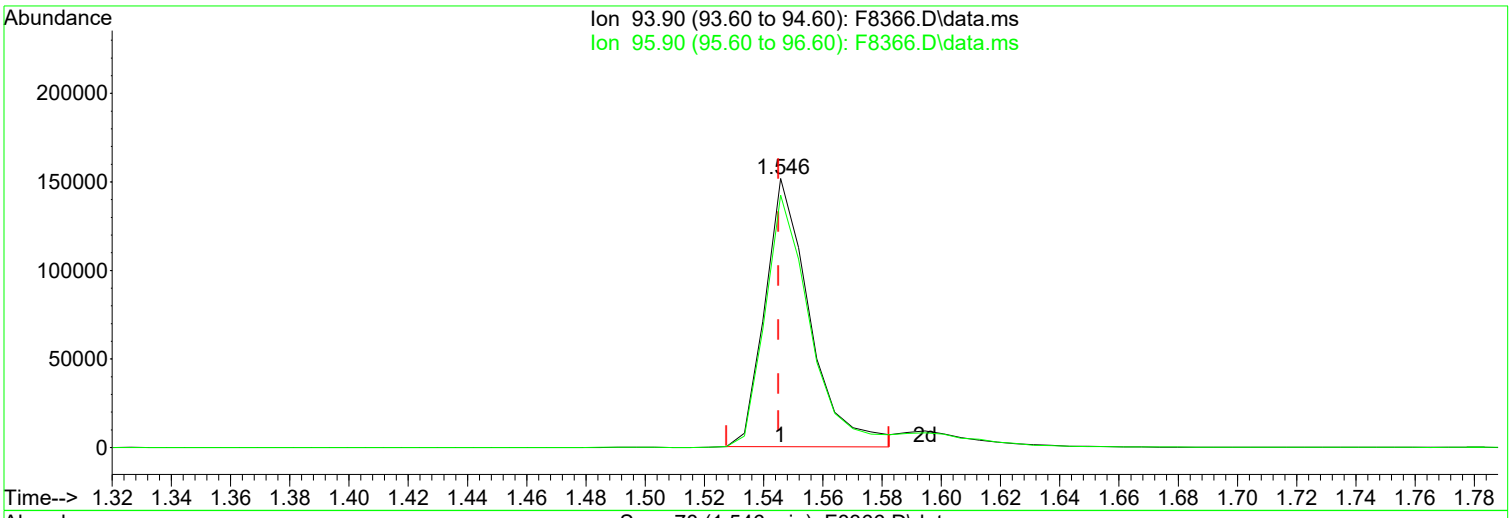
Poor integration.

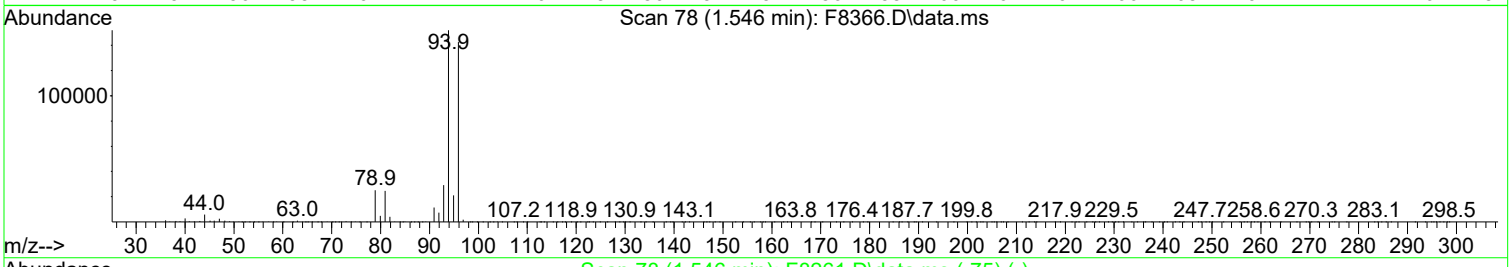
02/23/24

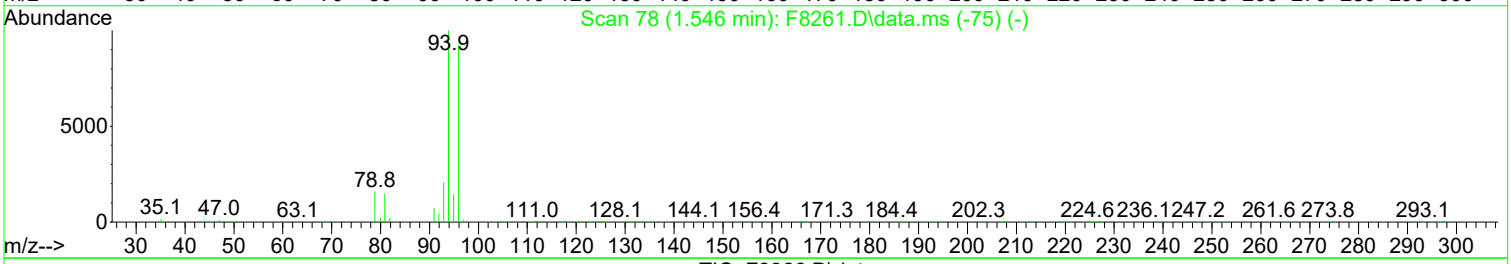
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8366.D
Acq On : 23 Feb 2024 11:10 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 23 11:28:14 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8366.D\data.ms

(6) Bromomethane (P)

1.546min (+ 0.001) 25.82 ug/L

response 159764

Ion	Exp%	Act%
93.90	100.00	100.00
95.90	92.30	93.89
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

02/23/24

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8366.D
Acq On : 23 Feb 2024 11:10 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 23 11:28:14 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	i	Pentafluorobenzene	50.000	50.000	0.0	117	0.00
2		Chlorodifluoromethane	50.000	41.026	17.9	93	0.00
3	P	Dichlorodifluoromethane	50.000	46.394	7.2	103	0.00
4	P	Chloromethane	50.000	54.485	-9.0	120	0.00
5	P	Vinyl Chloride	50.000	44.983	10.0	103	0.00
6	P	Bromomethane	50.000	29.352	41.3#	75	0.00
7	P	Chloroethane	50.000	44.601	10.8	103	0.00
8		Freon 21	50.000	41.630	16.7	94	0.00
9	P	Trichlorofluoromethane	50.000	47.464	5.1	111	0.00
10		Diethyl Ether	50.000	44.944	10.1	103	0.00
11		Freon 123a	50.000	45.212	9.6	96	0.00
12		Freon 123	50.000	49.026	1.9	124	0.00
13		Acrolein	250.000	274.369	-9.7	133	0.00
14		1,1-Diclethene	50.000	45.817	8.4	109	0.00
15	P	Freon 113	50.000	49.665	0.7	118	0.00
16	P	Acetone	50.000	44.890	10.2	105	0.00
17		2-Propanol	1000.000	827.627	17.2	96	0.00
18		Iodomethane	50.000	38.681	22.6#	85	0.00
19	P	Carbon Disulfide	50.000	48.719	2.6	110	0.00
20		Acetonitrile	250.000	260.896	-4.4	115	0.00
21		Allyl Chloride	50.000	49.453	1.1	114	0.00
22	P	Methyl Acetate	50.000	43.114	13.8	107	0.00
23	P	Methylene Chloride	50.000	45.579	8.8	108	0.00
24		TBA	1000.000	815.756	18.4	95	0.00
25		Acrylonitrile	250.000	227.782	8.9	104	0.00
26	P	Methyl-t-Butyl Ether	50.000	45.469	9.1	103	0.00
27	P	trans-1,2-Dichloroethene	50.000	49.446	1.1	109	0.00
28	P	1,1-Diclethane	50.000	48.110	3.8	106	0.00
29		Vinyl Acetate	50.000	54.195	-8.4	121	0.00
30		DIPE	50.000	46.244	7.5	102	0.00
31		2-Chloro-1,3-Butadiene	50.000	50.328	-0.7	106	0.00
32		ETBE	50.000	45.008	10.0	99	0.00
33		2,2-Dichloropropane	50.000	52.719	-5.4	112	0.00
34	P	cis-1,2-Dichloroethene	50.000	48.219	3.6	107	0.00
35	P	2-Butanone	50.000	47.235	5.5	106	0.00
36		Propionitrile	250.000	222.395	11.0	100	0.00
37		Bromochloromethane	50.000	47.700	4.6	107	-0.01
38		Methacrylonitrile	50.000	45.471	9.1	101	0.00
39		Tetrahydrofuran	50.000	44.023	12.0	97	0.00
40	P	Chloroform	50.000	47.292	5.4	103	0.00
41	P	1,1,1-Trichloroethane	50.000	49.236	1.5	101	0.00
42		TAME	50.000	45.748	8.5	97	0.00
43	i	1,4-Difluorobenzene	50.000	50.000	0.0	114	0.00
44	P	Cyclohexane	50.000	45.109	9.8	96	0.00
45	s	surr4,Dibrflmethane	50.000	48.081	3.8	110	0.00
46	P	Carbontetrachloride	50.000	54.269	-8.5	112	0.00
47		1,1-Dichloropropene	50.000	51.578	-3.2	109	0.00
48	s	surr1,1,2-dichloroethane-d4	50.000	46.838	6.3	106	0.00
49	P	Benzene	50.000	48.943	2.1	105	0.00
50	P	1,2-Dichloroethane	50.000	45.883	8.2	100	0.00
51		Iso-Butyl Alcohol	1000.000	858.430	14.2	92	0.00

1st FJ 02/25/24
2nd AM 02/27/24

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8366.D
Acq On : 23 Feb 2024 11:10 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 23 11:28:14 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52		n-Heptane	50.000	57.607	-15.2	118	0.00
53		1-Butanol	2500.000	2247.990	10.1	89	0.00
54	P	Trichloroethene	50.000	49.727	0.5	105	0.00
55	P	Methylcyclohexane	50.000	47.935	4.1	100	0.00
56	P	1,2-Diclpropane	50.000	49.034	1.9	105	0.00
57		Dibromomethane	50.000	47.458	5.1	104	0.00
58		1,4-Dioxane	1000.000	871.156	12.9	98	0.00
59		Methyl Methacrylate	50.000	48.477	3.0	103	0.00
60	P	Bromodichloromethane	50.000	49.737	0.5	102	0.00
61		2-Nitropropane	100.000	90.644	9.4	89	0.00
62		2-Chloroethylvinyl Ether	50.000	46.529	6.9	100	0.00
63	P	cis-1,3-Dichloropropene	50.000	50.758	-1.5	105	0.00
64	P	4-Methyl-2-pentanone	50.000	48.094	3.8	106	0.00
65	s	SURR3,Toluene-d8	50.000	47.451	5.1	108	0.00
66	P	Toluene	50.000	49.583	0.8	101	0.00
67	P	trans-1,3-Dichloropropene	50.000	51.778	-3.6	104	0.00
68		Ethyl Methacrylate	50.000	50.810	-1.6	102	0.00
69	P	1,1,2-Trichloroethane	50.000	47.991	4.0	101	0.00
70	s	SURR2,BFB	50.000	48.252	3.5	104	0.00
71	i	d5-Chlorobenzene	50.000	50.000	0.0	113	0.00
72	P	Tetrachloroethene	50.000	53.486	-7.0	111	0.00
73	P	2-Hexanone	50.000	46.920	6.2	103	0.00
74		1,3-Dichloropropane	50.000	46.537	6.9	103	0.00
75	P	Dibromochloromethane	50.000	49.631	0.7	105	0.00
76		N-Butyl Acetate	50.000	47.247	5.5	100	0.00
77	P	1,2-Dibromoethane	50.000	47.968	4.1	105	0.00
78		3-Chlorobenzotrifluoride	50.000	55.113	-10.2	120	0.00
79	P	Chlorobenzene	50.000	48.040	3.9	105	0.00
80		4-Chlorobenzotrifluoride	50.000	55.268	-10.5	120	0.00
81		1,1,1,2-Tetrachloroethane	50.000	51.460	-2.9	110	0.00
82	P	Ethylbenzene	50.000	49.494	1.0	106	0.00
83	P	(m+p)Xylene	100.000	100.651	-0.7	102	0.00
84	P	o-Xylene	50.000	49.038	1.9	102	0.00
85	P	Styrene	50.000	50.639	-1.3	100	0.00
86	P	Bromoform	50.000	50.913	-1.8	105	0.00
87		2-Chlorobenzotrifluoride	50.000	55.527	-11.1	117	0.00
88	P	Isopropylbenzene	50.000	49.664	0.7	101	0.00
89		Cyclohexanone	1000.000	876.207	12.4	96	0.00
90		trans-1,4-Dichloro-2-Butene	50.000	45.525	9.0	93	0.00
91	i	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	107	0.00
92	P	1,1,2,2-Tetrachloroethane	50.000	47.887	4.2	101	0.00
93		Bromobenzene	50.000	49.093	1.8	102	0.00
94		1,2,3-Trichloropropane	50.000	45.165	9.7	95	0.00
95		n-Propylbenzene	50.000	48.925	2.2	100	0.00
96		2-Chlorotoluene	50.000	46.684	6.6	99	0.00
97		3-Chlorotoluene	50.000	47.774	4.5	101	0.00
98		4-Chlorotoluene	50.000	48.208	3.6	99	0.00
99		1,3,5-Trimethylbenzene	50.000	49.053	1.9	97	0.00
100		tert-Butylbenzene	50.000	49.401	1.2	100	0.00
101		1,2,4-Trimethylbenzene	50.000	49.187	1.6	98	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8366.D
Acq On : 23 Feb 2024 11:10 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 23 11:28:14 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
102		3,4-Dichlorobenzotrifluorid	50.000	57.306	-14.6	116	0.00
103		sec-Butylbenzene	50.000	49.967	0.1	99	0.00
104		p-Isopropyltoluene	50.000	51.995	-4.0	100	0.00
105	P	1,3-Dclbenz	50.000	50.121	-0.2	101	0.00
106	P	1,4-Dclbenz	50.000	46.683	6.6	99	0.00
107		2,4-Dichlorobenzotrifluorid	50.000	57.367	-14.7	117	0.00
108		2,5-Dichlorobenzotrifluorid	50.000	56.316	-12.6	117	0.00
109		n-Butylbenzene	50.000	52.281	-4.6	101	0.00
110	P	1,2-Dclbenz	50.000	48.558	2.9	100	0.00
111	P	1,2-Dibromo-3-chloropropane	50.000	50.410	-0.8	101	0.00
112		Trielution Dichlorotoluene	150.000	153.445	-2.3	104	0.00
113		1,3,5-Trichlorobenzene	50.000	52.730	-5.5	110	0.00
114		Coelution Dichlorotoluene	100.000	100.297	-0.3	103	0.00
115	P	1,2,4-Tcbenzene	50.000	52.314	-4.6	110	0.00
116		Hexachlorobt	50.000	58.145	-16.3	118	0.00
117		Naphthalen	50.000	44.910	10.2	93	0.00
118		1,2,3-Tclbenzene	50.000	51.289	-2.6	107	0.00
119		2,4,5-Trichlorotoluene	50.000	54.385	-8.8	110	0.00
120		2,3,6-Trichlorotoluene	50.000	0.000	100.0#	0	-14.70#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8366.D
Acq On : 23 Feb 2024 11:10 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 23 11:28:14 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.350	168	442204	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.478	114	698248	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.934	117	688764	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	12.031	152	391077	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.216	113	215234	48.08	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 96.16%				
48) surr1,1,2-dichloroetha...	5.771	65	275157	46.84	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 93.68%				
65) SURR3,Toluene-d8	8.368	98	863901	47.45	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 94.90%				
70) SURR2,BFB	11.044	95	333682	48.25	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 96.50%				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.149	51	150730	41.026	ug/L		99
3) Dichlorodifluoromethane	1.119	85	214589m	46.394	ug/L		
4) Chloromethane	1.271	50	254442m	54.485	ug/L		
5) Vinyl Chloride	1.326	62	241429	44.983	ug/L		97
6) Bromomethane	1.546	94	179192m	29.352	ug/L		
7) Chloroethane	1.631	64	215747	44.601	ug/L		98
8) Freon 21	1.777	67	371370	41.630	ug/L		99
9) Trichlorofluoromethane	1.820	101	335241	47.464	ug/L		98
10) Diethyl Ether	2.052	59	186512	44.944	ug/L		98
11) Freon 123a	2.064	67	221027	45.212	ug/L		95
12) Freon 123	2.119	83	250019	49.026	ug/L		97
13) Acrolein	2.168	56	267372	274.369	ug/L		98
14) 1,1-Diclethene	2.241	96	144931	45.817	ug/L		97
15) Freon 113	2.241	101	157566	49.665	ug/L		97
16) Acetone	2.302	43	117748	44.890	ug/L		94
17) 2-Propanol	2.442	45	348994	827.627	ug/L		97
18) Iodomethane	2.375	142	184352	38.681	ug/L		100
19) Carbon Disulfide	2.430	76	474500	48.719	ug/L		100
20) Acetonitrile	2.576	41	292227m	260.896	ug/L		
21) Allyl Chloride	2.576	76	95723	49.453	ug/L	#	76
22) Methyl Acetate	2.607	43	278859	43.114	ug/L		99
23) Methylene Chloride	2.698	84	180086	45.579	ug/L		99
24) TBA	2.844	59	598713	815.756	ug/L		95
25) Acrylonitrile	2.978	53	550583	227.782	ug/L		100
26) Methyl-t-Butyl Ether	2.984	73	629008	45.469	ug/L		99
27) trans-1,2-Dichloroethene	2.984	96	187655	49.446	ug/L		91
28) 1,1-Diclethane	3.490	63	346201	48.110	ug/L		100
29) Vinyl Acetate	3.582	86	32193	54.195	ug/L	#	71
30) DIPE	3.594	45	606870	46.244	ug/L		97
31) 2-Chloro-1,3-Butadiene	3.600	53	339265	50.328	ug/L		100
32) ETBE	4.118	59	558788	45.008	ug/L		99
33) 2,2-Dichloropropane	4.314	77	267619	52.719	ug/L		97
34) cis-1,2-Dichloroethene	4.332	96	217165	48.219	ug/L		94
35) 2-Butanone	4.405	43	168476	47.235	ug/L		98
36) Propionitrile	4.515	54	237556	222.395	ug/L		98
37) Bromochloromethane	4.728	130	142007	47.700	ug/L		98
38) Methacrylonitrile	4.765	67	118811	45.471	ug/L		98
39) Tetrahydrofuran	4.832	42	104225	44.023	ug/L		97
40) Chloroform	4.917	83	354568	47.292	ug/L		97

1st FJ 02/25/24
2nd AM 02/27/24

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8366.D
Acq On : 23 Feb 2024 11:10 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 23 11:28:14 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-Trichloroethane	5.191	97	290124	49.236	ug/L	99
42) TAME	6.069	73	558092	45.748	ug/L	99
44) Cyclohexane	5.252	41	181045	45.109	ug/L	97
46) Carbontetrachloride	5.466	117	233503	54.269	ug/L	98
47) 1,1-Dichloropropene	5.490	75	262234	51.578	ug/L	95
49) Benzene	5.825	78	763970	48.943	ug/L	99
50) 1,2-Dichloroethane	5.892	62	313918	45.883	ug/L	99
51) Iso-Butyl Alcohol	5.892	43	259193	858.430	ug/L	100
52) n-Heptane	6.301	43	270289	57.607	ug/L	98
53) 1-Butanol	6.886	56	396089	2247.990	ug/L	99
54) Trichloroethene	6.807	130	208092	49.727	ug/L	98
55) Methylcyclohexane	7.032	55	236424	47.935	ug/L	99
56) 1,2-Diclpropane	7.118	63	210455	49.034	ug/L	98
57) Dibromomethane	7.270	93	151549	47.458	ug/L	91
58) 1,4-Dioxane	7.343	88	90180	871.156	ug/L	99
59) Methyl Methacrylate	7.356	69	188182	48.477	ug/L	99
60) Bromodichloromethane	7.508	83	272377	49.737	ug/L	97
61) 2-Nitropropane	7.831	41	129864	90.644	ug/L	98
62) 2-Chloroethylvinyl Ether	7.935	63	134479	46.529	ug/L	99
63) cis-1,3-Dichloropropene	8.069	75	330160	50.758	ug/L	98
64) 4-Methyl-2-pentanone	8.294	43	336554	48.094	ug/L	98
66) Toluene	8.441	91	886427	49.583	ug/L	99
67) trans-1,3-Dichloropropene	8.746	75	300639	51.778	ug/L	100
68) Ethyl Methacrylate	8.886	69	331535	50.810	ug/L	94
69) 1,1,2-Trichloroethane	8.947	97	209635	47.991	ug/L	98
72) Tetrachloroethene	9.056	164	175312	53.486	ug/L	98
73) 2-Hexanone	9.258	43	250647	46.920	ug/L	97
74) 1,3-Dichloropropane	9.124	76	365531	46.537	ug/L	100
75) Dibromochloromethane	9.361	129	223296	49.631	ug/L	95
76) N-Butyl Acetate	9.410	43	457585	47.247	ug/L	98
77) 1,2-Dibromoethane	9.459	107	225699	47.968	ug/L	99
78) 3-Chlorobenzotrifluoride	9.983	180	346727	55.113	ug/L	99
79) Chlorobenzene	9.965	112	603361	48.040	ug/L	99
80) 4-Chlorobenzotrifluoride	10.038	180	297520	55.268	ug/L	98
81) 1,1,1,2-Tetrachloroethane	10.056	131	198553	51.460	ug/L	96
82) Ethylbenzene	10.081	106	310371	49.494	ug/L	97
83) (m+p)Xylene	10.203	106	792508	100.651	ug/L	99
84) o-Xylene	10.568	106	390958	49.038	ug/L	95
85) Styrene	10.587	104	676700	50.639	ug/L	98
86) Bromoform	10.751	173	155371	50.913	ug/L	99
87) 2-Chlorobenzotrifluoride	10.831	180	344941	55.527	ug/L	97
88) Isopropylbenzene	10.910	105	990163	49.664	ug/L	99
89) Cyclohexanone	11.001	55	1386125	876.207	ug/L	96
90) trans-1,4-Dichloro-2-B...	11.245	53	98244	45.525	ug/L	96
92) 1,1,2,2-Tetrachloroethane	11.196	83	348159	47.887	ug/L	98
93) Bromobenzene	11.166	156	277139	49.093	ug/L	97
94) 1,2,3-Trichloropropane	11.227	110	110533	45.165	ug/L	97
95) n-Propylbenzene	11.276	91	1222856	48.925	ug/L	100
96) 2-Chlorotoluene	11.343	91	702598	46.684	ug/L	98
97) 3-Chlorotoluene	11.397	91	732932	47.774	ug/L	99
98) 4-Chlorotoluene	11.434	91	837093	48.208	ug/L	93
99) 1,3,5-Trimethylbenzene	11.434	105	874669	49.053	ug/L	96
100) tert-Butylbenzene	11.708	119	734951	49.401	ug/L	100
101) 1,2,4-Trimethylbenzene	11.745	105	881192	49.187	ug/L	100
102) 3,4-Dichlorobenzotrifl...	11.812	214	290671	57.306	ug/L	99
103) sec-Butylbenzene	11.891	105	1075200	49.967	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8366.D
Acq On : 23 Feb 2024 11:10 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 23 11:28:14 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) p-Isopropyltoluene	12.013	119	941152	51.995	ug/L	98
105) 1,3-Dclbenz	11.977	146	512633	50.121	ug/L	99
106) 1,4-Dclbenz	12.056	146	522591	46.683	ug/L	99
107) 2,4-Dichlorobenzotrifl...	12.111	214	265470	57.367	ug/L	97
108) 2,5-Dichlorobenzotrifl...	12.153	214	291519	56.316	ug/L	97
109) n-Butylbenzene	12.355	91	840473	52.281	ug/L	99
110) 1,2-Dclbenz	12.361	146	514600	48.558	ug/L	99
111) 1,2-Dibromo-3-chloropr...	13.001	157	81115	50.410	ug/L	98
112) Trielution Dichlorotol...	13.111	125	1323978	153.445	ug/L	99
113) 1,3,5-Trichlorobenzene	13.159	180	397036	52.730	ug/L	99
114) Coelution Dichlorotoluene	13.440	125	951296	100.297	ug/L	100
115) 1,2,4-Tcbenzene	13.647	180	370658	52.314	ug/L	95
116) Hexachlorobt	13.781	225	164490	58.145	ug/L	93
117) Naphthalen	13.842	128	1035473	44.910	ug/L	99
118) 1,2,3-Tclbenzene	14.031	180	362263	51.289	ug/L	98
119) 2,4,5-Trichlorotoluene	14.616	159	262232	54.385	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
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Quant Time: Feb 23 11:28:14 2024
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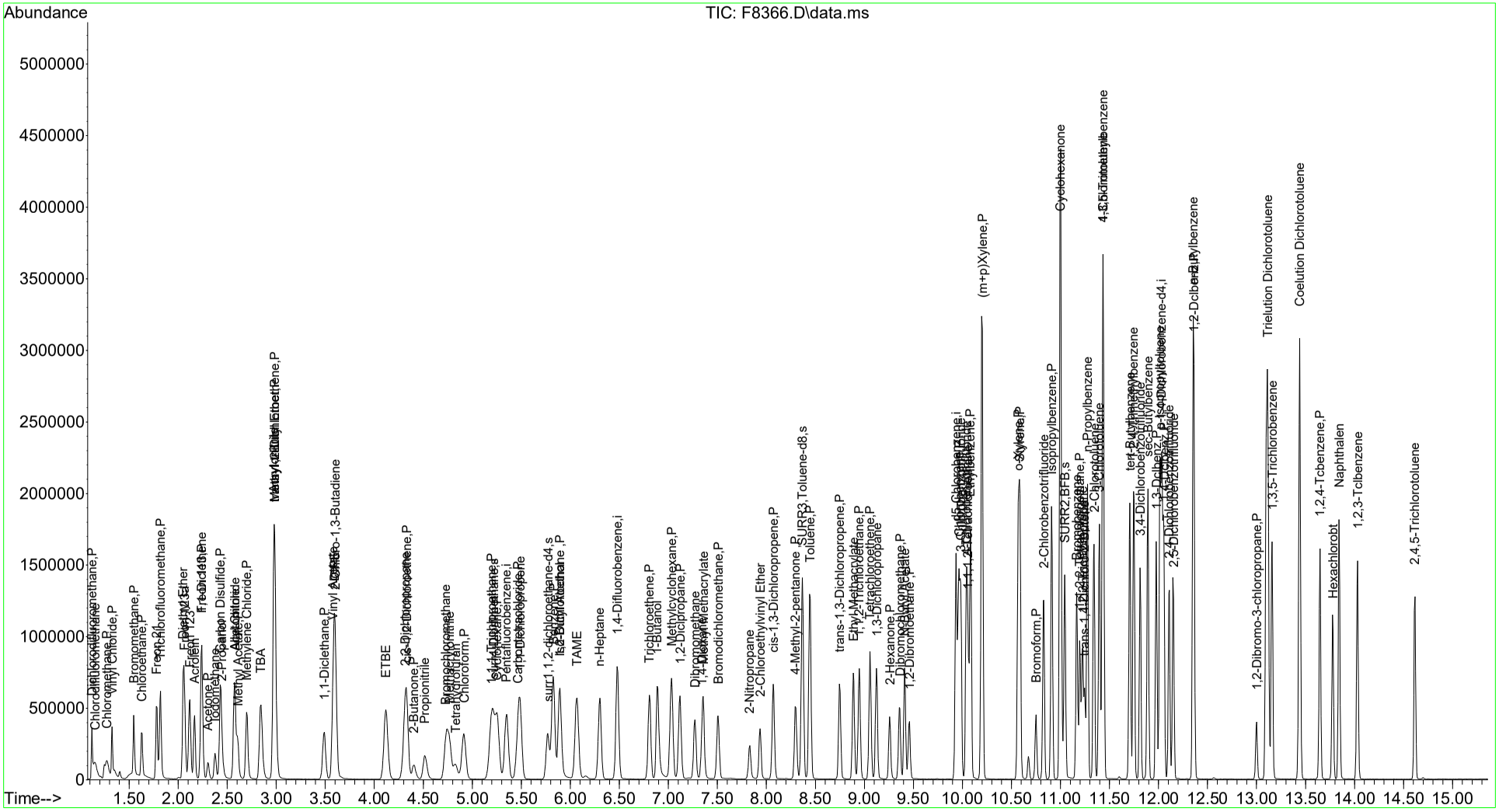
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

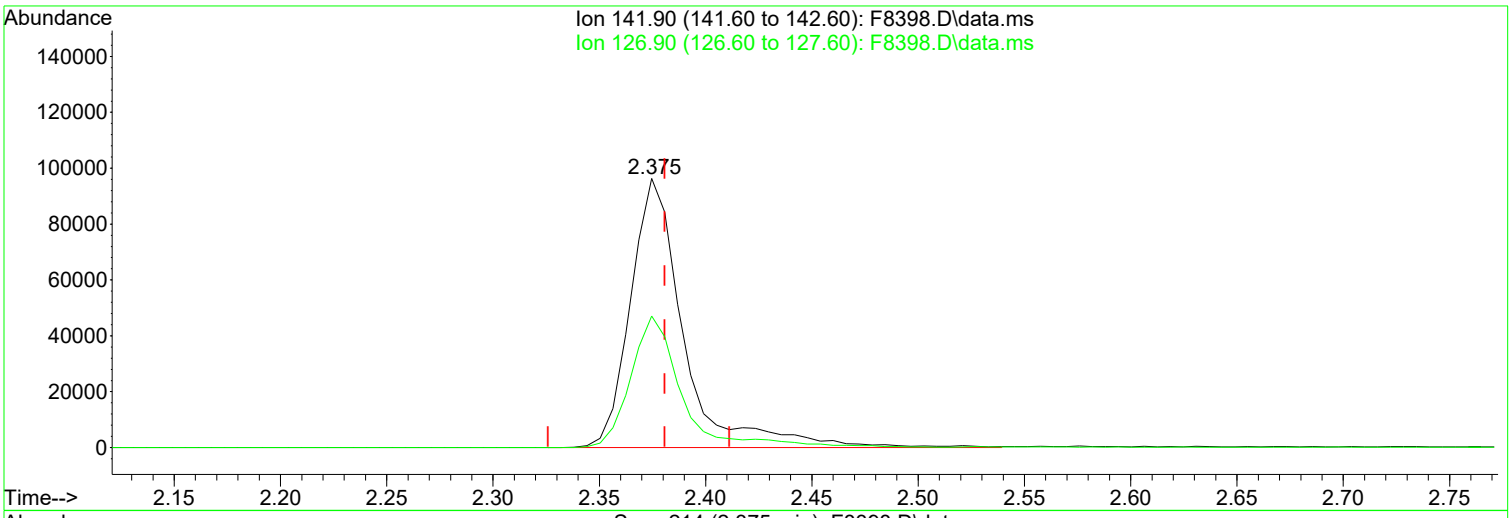


1st FJ 02/25/24
2nd AM 02/27/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8398.D
Acq On : 25 Feb 2024 01:48 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 25 14:04:03 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



TIC: F8398.D\data.ms

(18) Iodomethane

2.375min (-0.006) 35.39 ug/L m

response 169444

Ion	Exp%	Act%
141.90	100.00	100.00
126.90	46.80	48.89
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

02/25/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8398.D
Acq On : 25 Feb 2024 01:48 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
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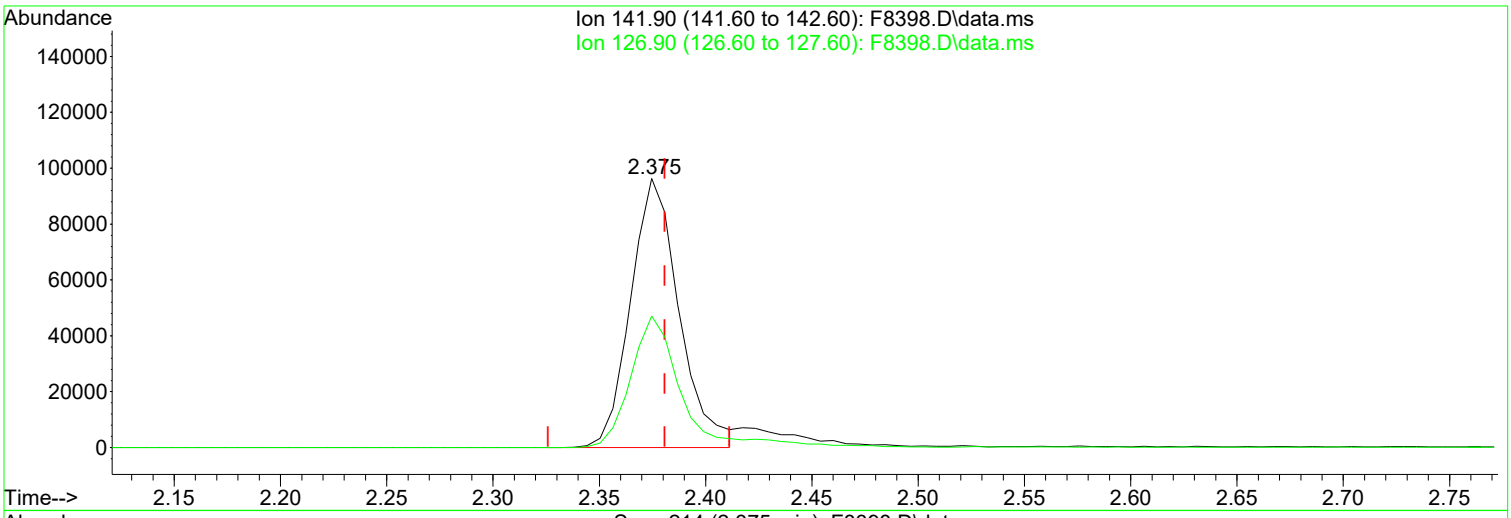
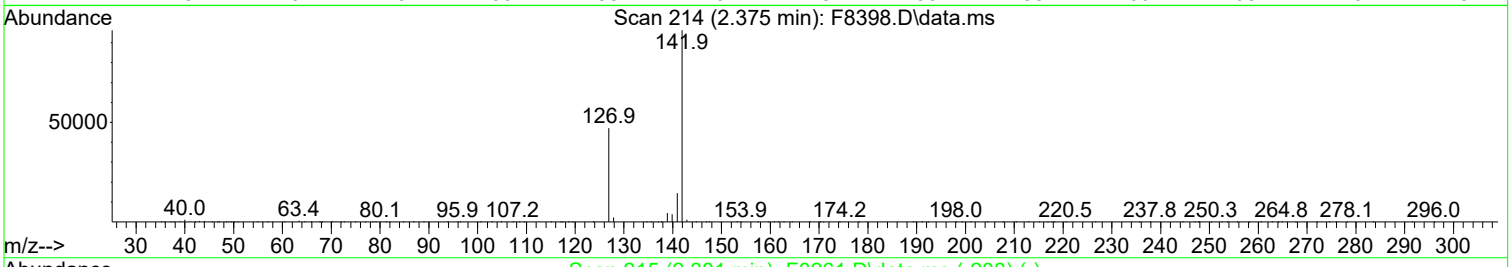
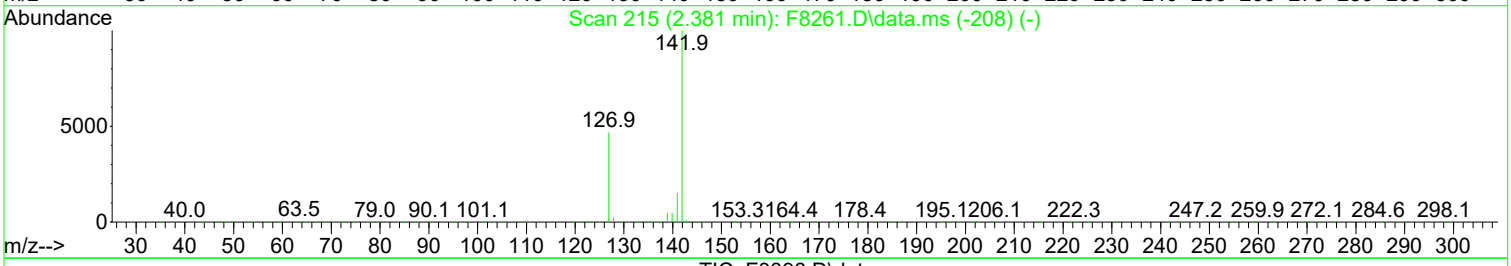
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8398.D\data.ms

(18) Iodomethane

2.375min (-0.006) 31.86 ug/L

response 152545

Ion	Exp%	Act%
141.90	100.00	100.00
126.90	46.80	48.89
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

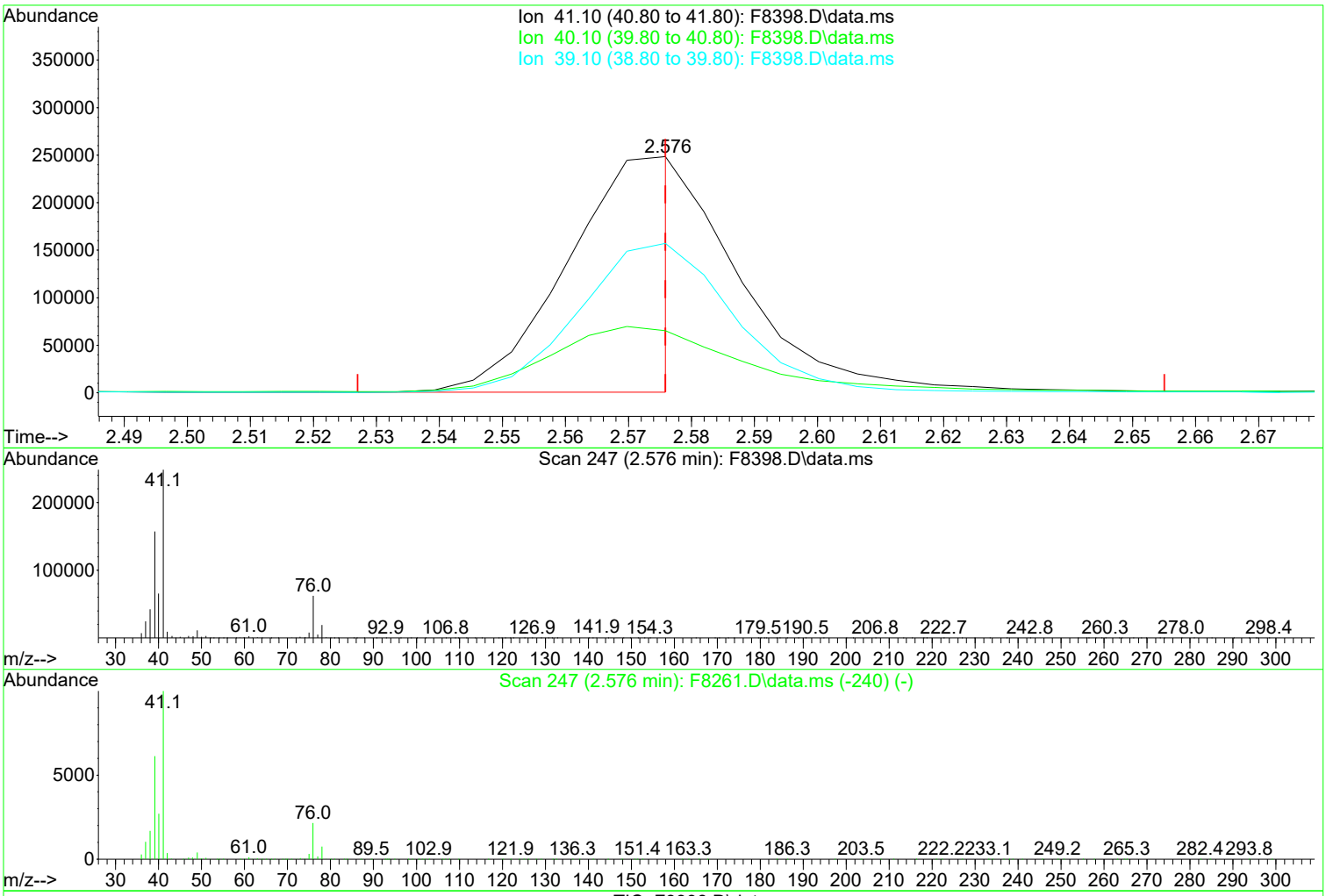
Before

02/25/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8398.D
Acq On : 25 Feb 2024 01:48 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 25 14:04:03 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



TIC: F8398.D\data.ms

(20) Acetonitrile

2.576min (-0.000) 270.86 ug/L m

response 304771

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	27.60	26.31
39.10	61.30	63.23
0.00	0.00	0.00

Manual Integration:

After

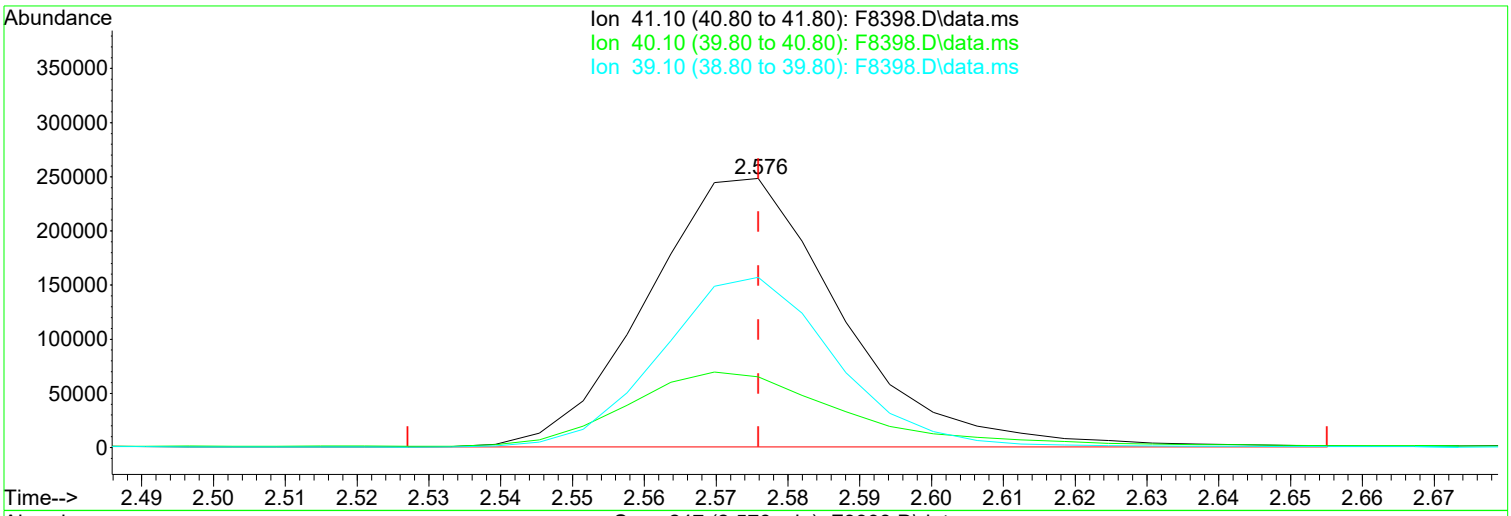
Poor integration.

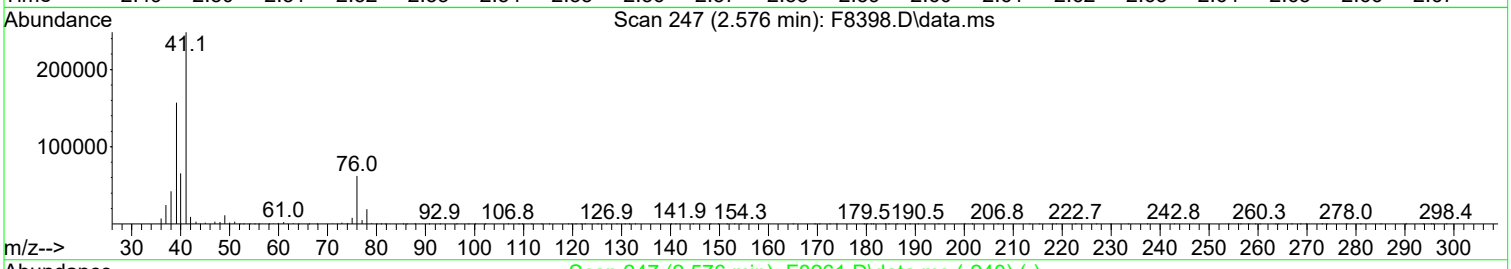
02/25/24

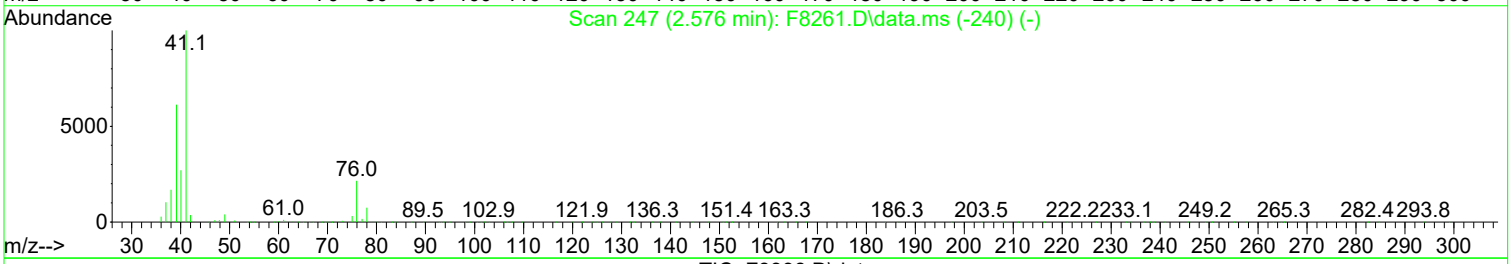
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8398.D
Acq On : 25 Feb 2024 01:48 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 25 14:04:03 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8398.D\data.ms

(20) Acetonitrile

2.576min (-0.000) 418.03 ug/L

response 470371

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	27.60	26.31
39.10	61.30	63.23
0.00	0.00	0.00

Manual Integration:

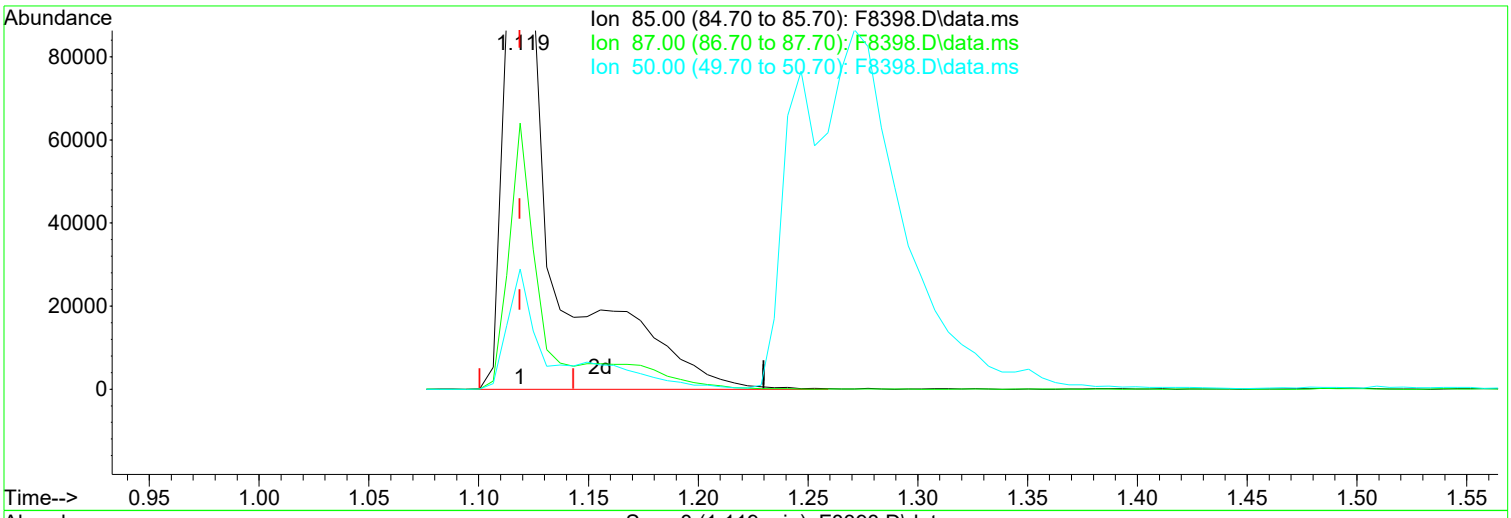
Before

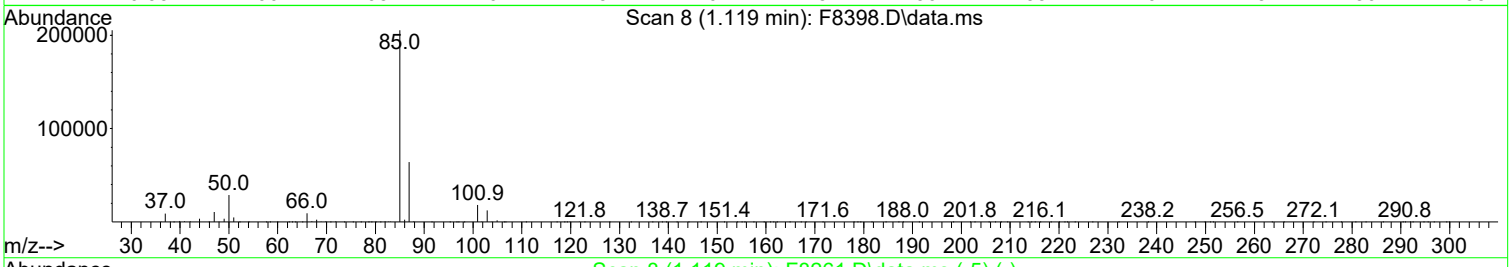
02/25/24

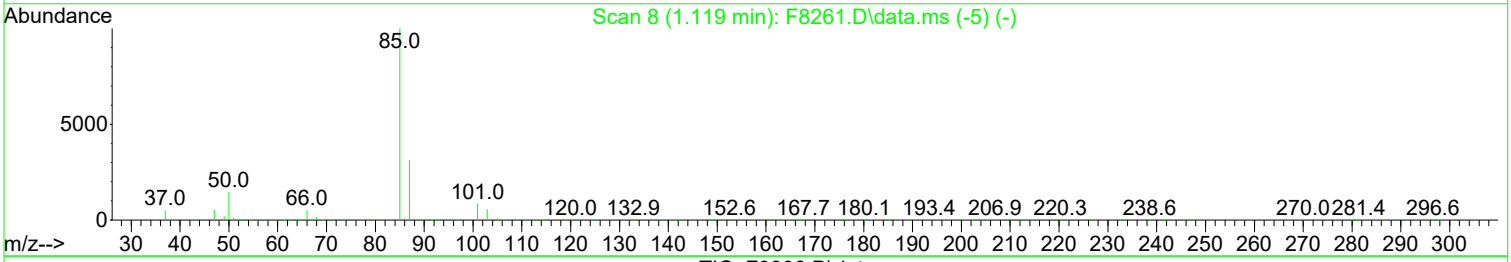
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8398.D
Acq On : 25 Feb 2024 01:48 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 25 14:04:03 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8398.D\data.ms

(3) Dichlorodifluoromethane (P)

1.119min (-0.000) 47.19 ug/L m

response 219258

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.30	31.20
50.00	14.60	14.11
0.00	0.00	0.00

Manual Integration:

After

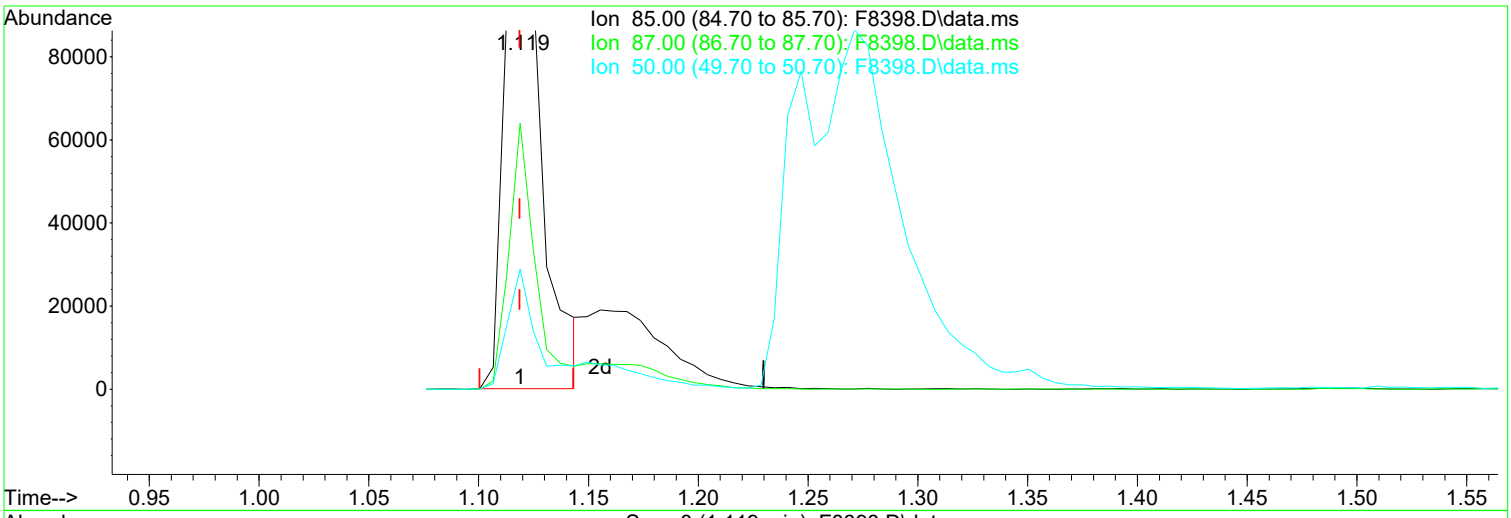
Poor integration.

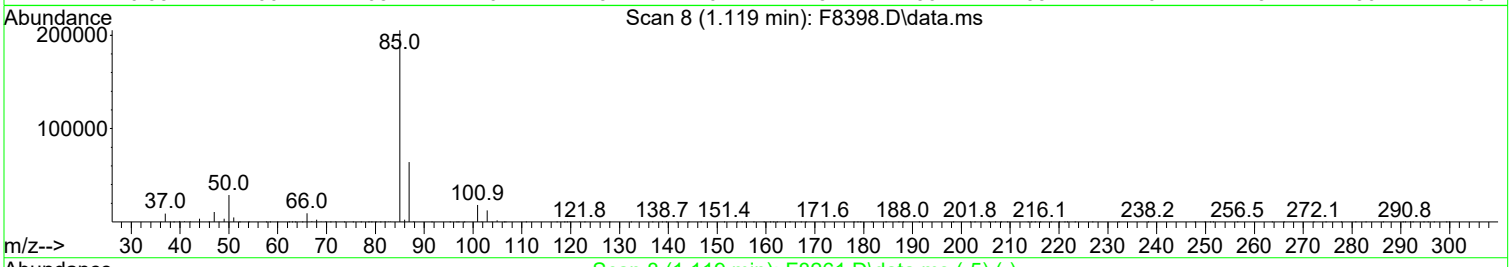
02/25/24

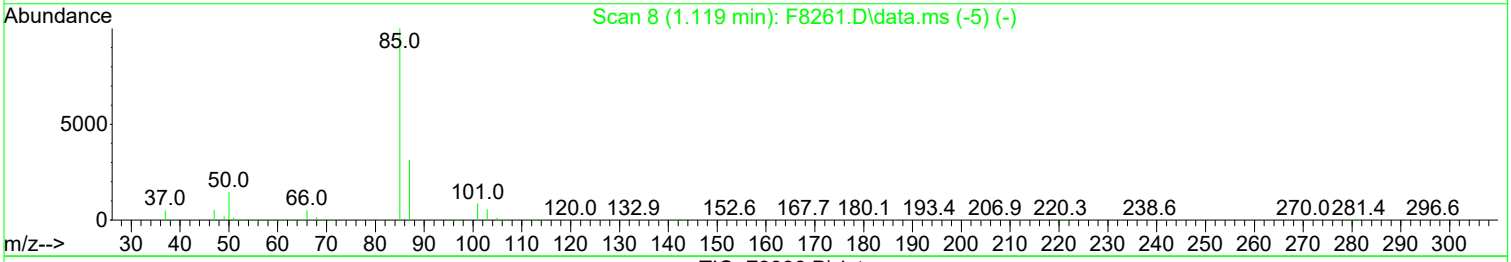
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8398.D
Acq On : 25 Feb 2024 01:48 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 25 14:04:03 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8398.D\data.ms

(3) Dichlorodifluoromethane (P)

1.119min (-0.000) 36.37 ug/L

response 168997

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.30	31.20
50.00	14.60	14.11
0.00	0.00	0.00

Manual Integration:

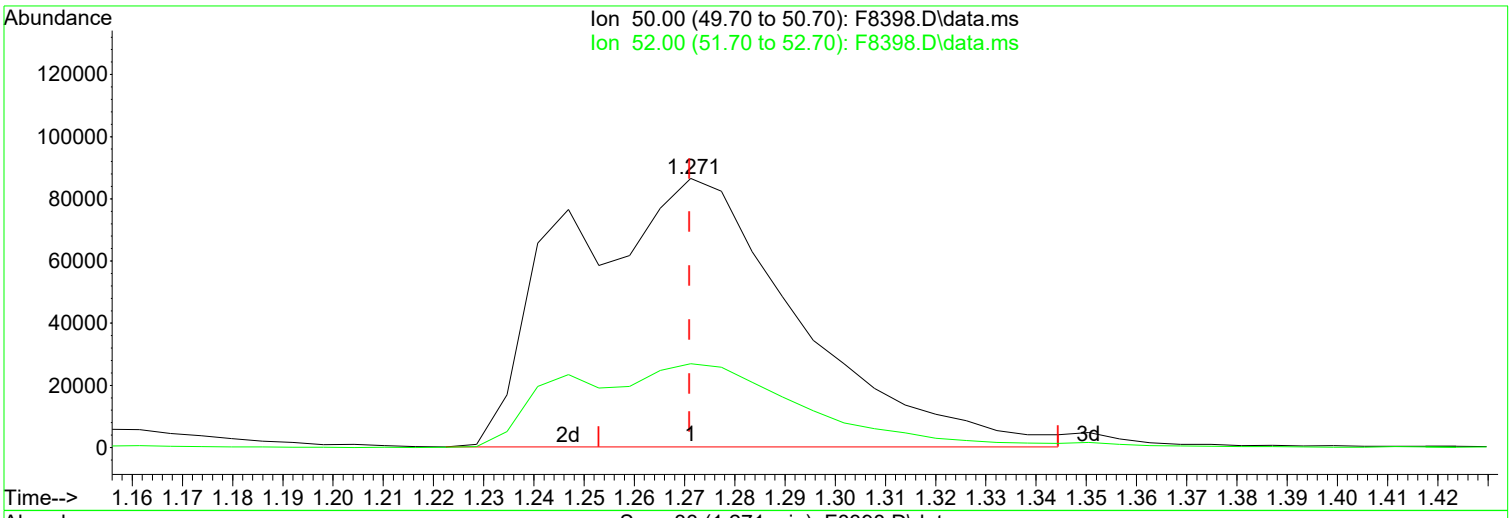
Before

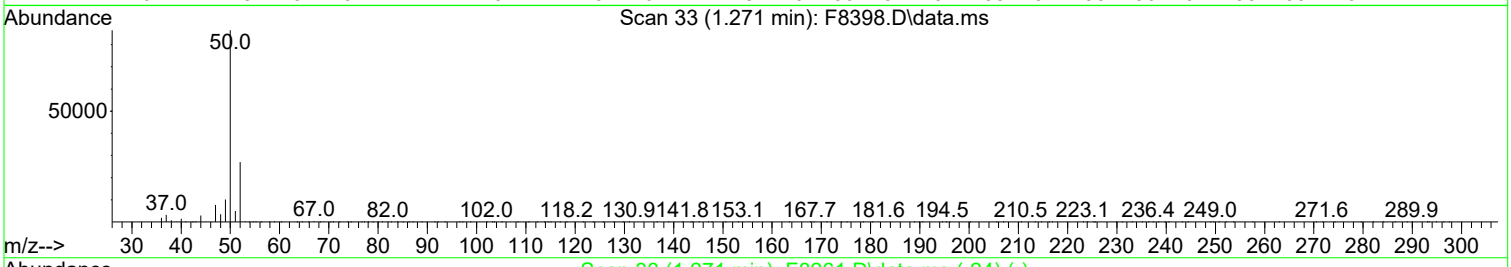
02/25/24

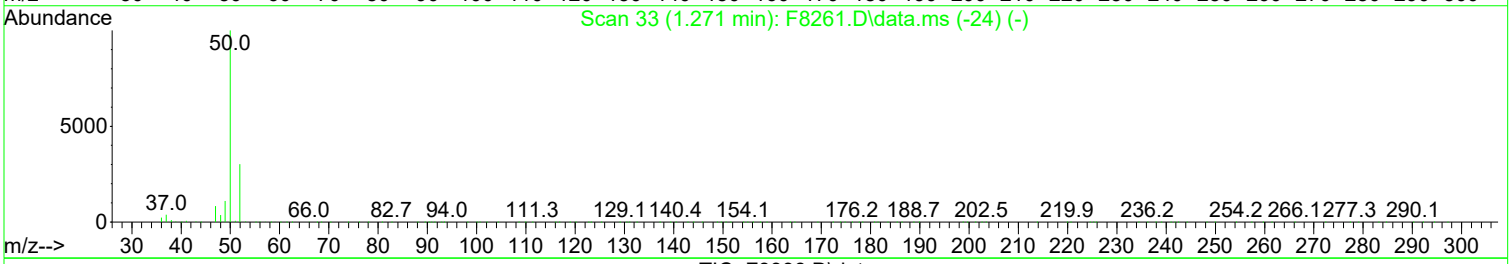
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8398.D
Acq On : 25 Feb 2024 01:48 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 25 14:04:03 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8398.D\data.ms

(4) Chloromethane (P)

1.271min (+ 0.000) 59.63 ug/L m

response 278152

Ion	Exp%	Act%
50.00	100.00	100.00
52.00	30.30	31.19
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

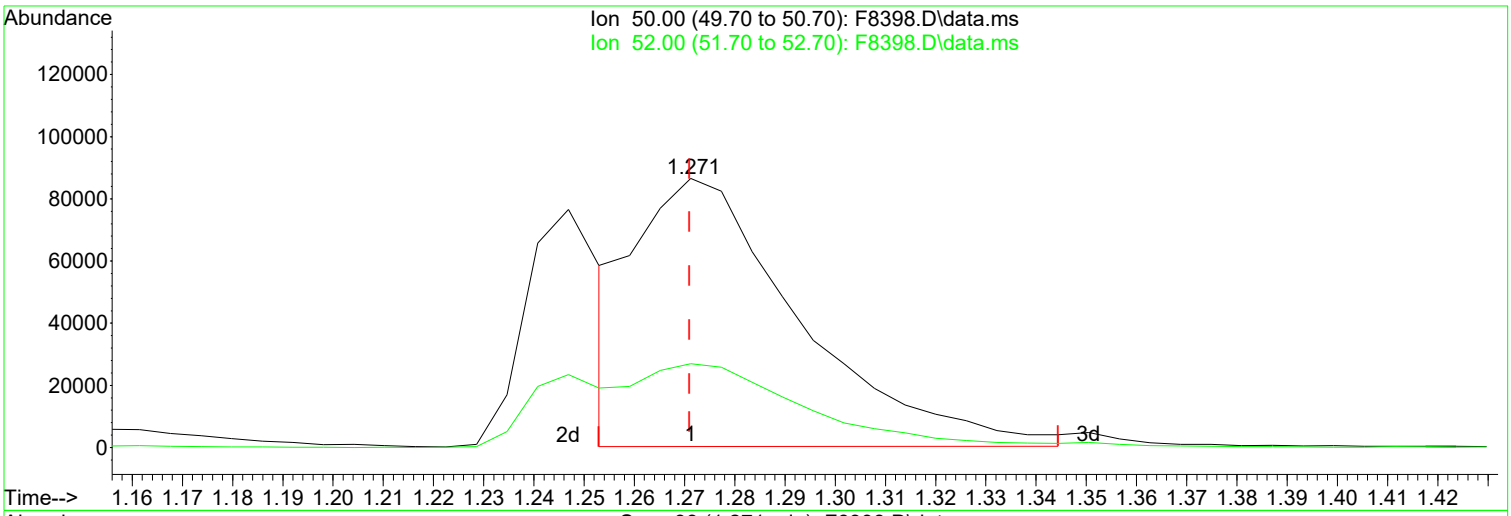
02/25/24

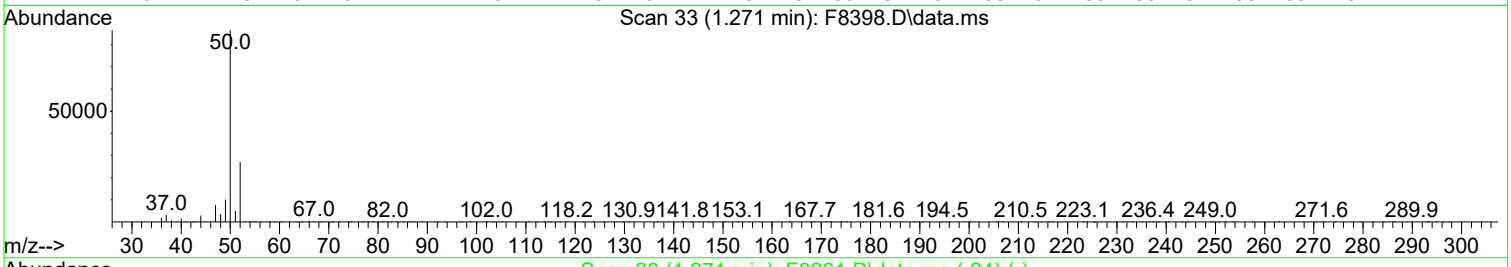
1st FJ 02/25/24
2nd AM 02/28/24

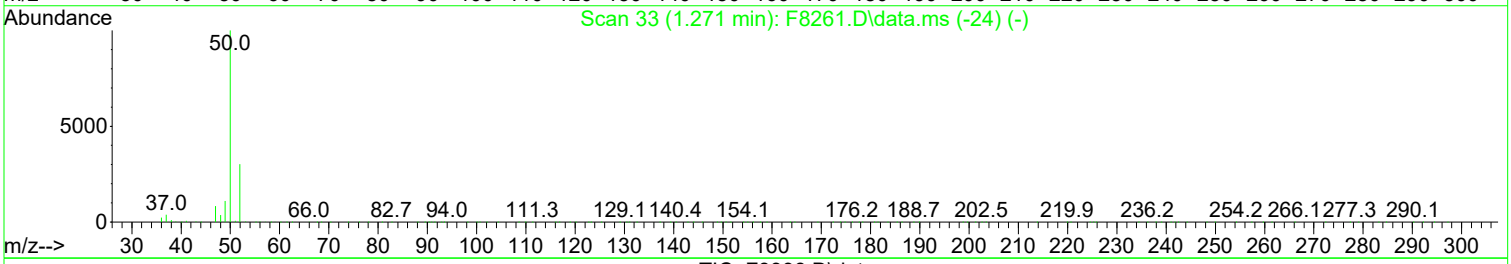
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8398.D
Acq On : 25 Feb 2024 01:48 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 25 14:04:03 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8398.D\data.ms

(4) Chloromethane (P)

1.271min (+ 0.000) 41.61 ug/L

response 198072

Ion	Exp%	Act%
50.00	100.00	100.00
52.00	30.30	31.19
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

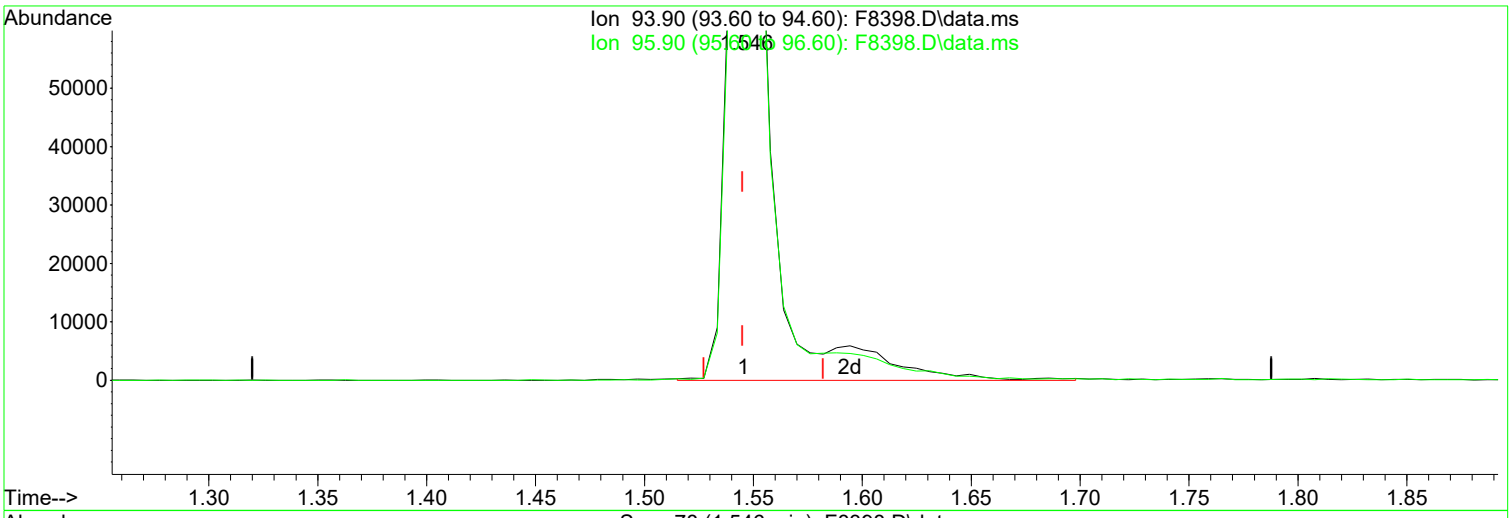
Before

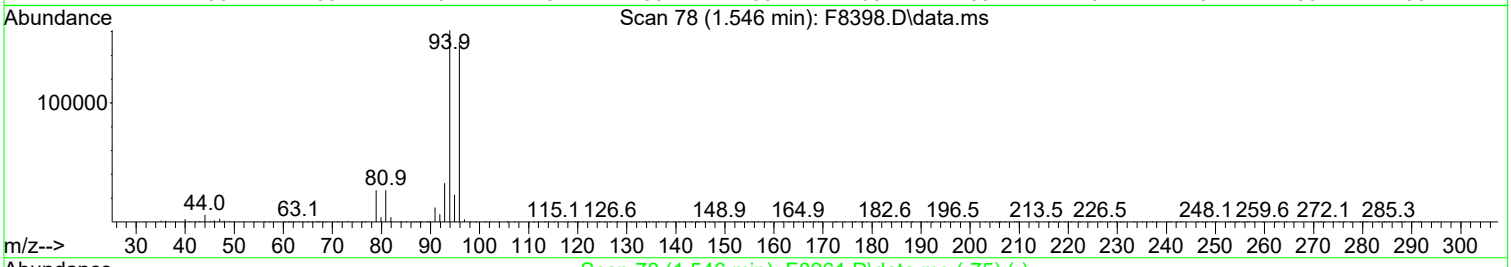
02/25/24

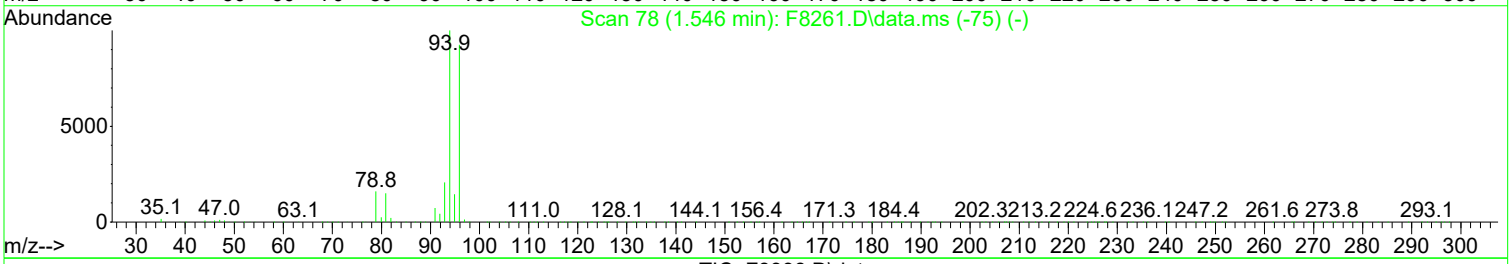
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8398.D
Acq On : 25 Feb 2024 01:48 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 25 14:04:03 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8398.D\data.ms

(6) Bromomethane (P)

1.546min (+ 0.001) 27.13 ug/L m

response 167775

Ion	Exp%	Act%
93.90	100.00	100.00
95.90	92.30	94.00
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

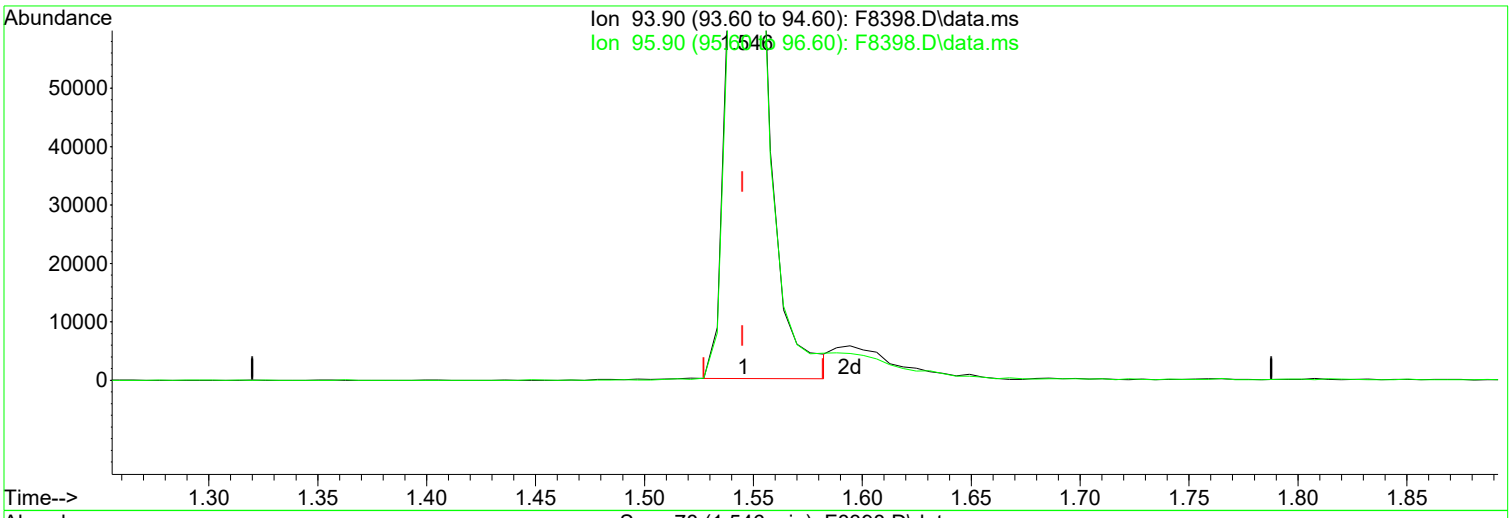
Poor integration.

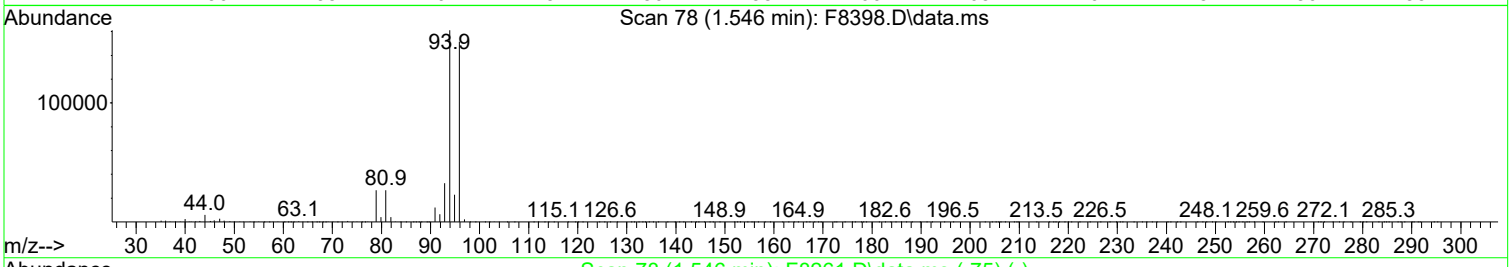
02/25/24

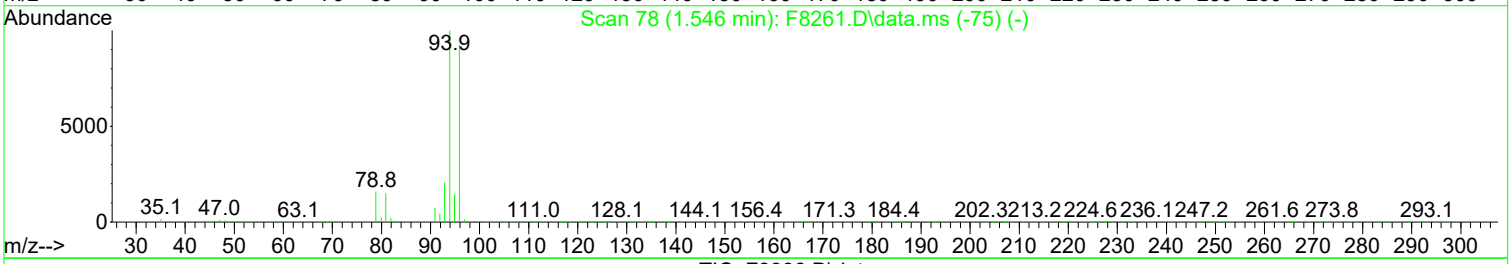
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8398.D
Acq On : 25 Feb 2024 01:48 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 25 14:04:03 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8398.D\data.ms

(6) Bromomethane (P)

1.546min (+ 0.001) 24.59 ug/L

response 153529

Ion	Exp%	Act%
93.90	100.00	100.00
95.90	92.30	94.00
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

02/25/24

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8398.D
Acq On : 25 Feb 2024 01:48 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 25 14:04:03 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	i	Pentafluorobenzene	50.000	50.000	0.0	117	0.00
2		Chlorodifluoromethane	50.000	44.736	10.5	102	0.00
3	P	Dichlorodifluoromethane	50.000	47.189	5.6	105	0.00
4	P	Chloromethane	50.000	59.635	-19.3	131	0.00
5	P	Vinyl Chloride	50.000	46.629	6.7	107	0.00
6	P	Bromomethane	50.000	27.127	45.7#	70	0.00
7	P	Chloroethane	50.000	47.150	5.7	109	0.00
8		Freon 21	50.000	46.648	6.7	106	0.00
9	P	Trichlorofluoromethane	50.000	49.766	0.5	117	0.00
10		Diethyl Ether	50.000	47.604	4.8	110	0.00
11		Freon 123a	50.000	47.838	4.3	102	0.00
12		Freon 123	50.000	43.436	13.1	110	0.00
13		Acrolein	250.000	231.038	7.6	112	0.00
14		1,1-Diclethene	50.000	47.420	5.2	113	0.00
15	P	Freon 113	50.000	51.406	-2.8	123	0.00
16	P	Acetone	50.000	45.053	9.9	106	0.00
17		2-Propanol	1000.000	801.334	19.9	93	0.00
18		Iodomethane	50.000	35.391	29.2#	78	0.00
19	P	Carbon Disulfide	50.000	50.496	-1.0	115	0.00
20		Acetonitrile	250.000	270.860	-8.3	120	0.00
21		Allyl Chloride	50.000	49.879	0.2	116	0.00
22	P	Methyl Acetate	50.000	43.612	12.8	108	0.00
23	P	Methylene Chloride	50.000	46.384	7.2	111	0.00
24		TBA	1000.000	796.913	20.3#	93	0.00
25		Acrylonitrile	250.000	228.023	8.8	105	0.00
26	P	Methyl-t-Butyl Ether	50.000	45.496	9.0	103	0.00
27	P	trans-1,2-Dichloroethene	50.000	49.538	0.9	110	0.00
28	P	1,1-Diclethane	50.000	49.308	1.4	109	0.00
29		Vinyl Acetate	50.000	56.588	-13.2	127	0.00
30		DIPE	50.000	46.126	7.7	103	0.00
31		2-Chloro-1,3-Butadiene	50.000	51.914	-3.8	110	0.00
32		ETBE	50.000	43.885	12.2	97	0.00
33		2,2-Dichloropropane	50.000	52.872	-5.7	113	0.00
34	P	cis-1,2-Dichloroethene	50.000	48.688	2.6	108	0.00
35	P	2-Butanone	50.000	49.059	1.9	111	-0.01
36		Propionitrile	250.000	217.299	13.1	98	0.00
37		Bromochloromethane	50.000	48.069	3.9	109	0.00
38		Methacrylonitrile	50.000	43.880	12.2	98	0.00
39		Tetrahydrofuran	50.000	40.863	18.3	91	0.00
40	P	Chloroform	50.000	47.809	4.4	105	0.00
41	P	1,1,1-Trichloroethane	50.000	50.499	-1.0	104	0.00
42		TAME	50.000	44.723	10.6	96	0.00
43	i	1,4-Difluorobenzene	50.000	50.000	0.0	114	0.00
44	P	Cyclohexane	50.000	49.987	0.0	107	0.00
45	s	surr4,Dibrflmethane	50.000	47.586	4.8	109	0.00
46	P	Carbontetrachloride	50.000	55.395	-10.8	115	0.00
47		1,1-Dichloropropene	50.000	52.010	-4.0	110	0.00
48	s	surr1,1,2-dichloroethane-d4	50.000	46.127	7.7	106	0.00
49	P	Benzene	50.000	49.928	0.1	108	0.00
50	P	1,2-Dichloroethane	50.000	46.180	7.6	102	0.00
51		Iso-Butyl Alcohol	1000.000	841.139	15.9	91	0.00

1st FJ 02/25/24
2nd AM 02/28/24

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8398.D
Acq On : 25 Feb 2024 01:48 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 25 14:04:03 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52		n-Heptane	50.000	60.214	-20.4#	125	0.00
53		1-Butanol	2500.000	2122.305	15.1	84	0.00
54	P	Trichloroethene	50.000	50.343	-0.7	107	0.00
55	P	Methylcyclohexane	50.000	53.358	-6.7	112	0.00
56	P	1,2-Diclpropane	50.000	49.809	0.4	107	0.00
57		Dibromomethane	50.000	47.434	5.1	105	0.00
58		1,4-Dioxane	1000.000	871.675	12.8	99	0.00
59		Methyl Methacrylate	50.000	48.421	3.2	103	0.00
60	P	Bromodichloromethane	50.000	50.946	-1.9	105	0.00
61		2-Nitropropane	100.000	93.823	6.2	94	0.00
62		2-Chloroethylvinyl Ether	50.000	55.453	-10.9	120	0.00
63	P	cis-1,3-Dichloropropene	50.000	50.559	-1.1	105	0.00
64	P	4-Methyl-2-pentanone	50.000	51.213	-2.4	113	0.00
65	s	SURR3,Toluene-d8	50.000	46.534	6.9	107	0.00
66	P	Toluene	50.000	51.100	-2.2	105	0.00
67	P	trans-1,3-Dichloropropene	50.000	52.141	-4.3	106	0.00
68		Ethyl Methacrylate	50.000	50.992	-2.0	103	0.00
69	P	1,1,2-Trichloroethane	50.000	48.647	2.7	103	0.00
70	s	SURR2,BFB	50.000	47.711	4.6	103	0.00
71	i	d5-Chlorobenzene	50.000	50.000	0.0	112	0.00
72	P	Tetrachloroethene	50.000	56.077	-12.2	115	0.00
73	P	2-Hexanone	50.000	50.316	-0.6	108	0.00
74		1,3-Dichloropropane	50.000	48.367	3.3	106	0.00
75	P	Dibromochloromethane	50.000	51.751	-3.5	108	0.00
76		N-Butyl Acetate	50.000	48.219	3.6	101	0.00
77	P	1,2-Dibromoethane	50.000	48.967	2.1	105	0.00
78		3-Chlorobenzotrifluoride	50.000	55.039	-10.1	119	0.00
79	P	Chlorobenzene	50.000	49.907	0.2	107	0.00
80		4-Chlorobenzotrifluoride	50.000	56.931	-13.9	122	0.00
81		1,1,1,2-Tetrachloroethane	50.000	53.055	-6.1	112	0.00
82	P	Ethylbenzene	50.000	51.824	-3.6	109	0.00
83	P	(m+p)Xylene	100.000	105.693	-5.7	106	0.00
84	P	o-Xylene	50.000	51.061	-2.1	105	0.00
85	P	Styrene	50.000	52.932	-5.9	103	0.00
86	P	Bromoform	50.000	52.560	-5.1	107	0.00
87		2-Chlorobenzotrifluoride	50.000	55.627	-11.3	115	0.00
88	P	Isopropylbenzene	50.000	52.612	-5.2	106	0.00
89		Cyclohexanone	1000.000	866.177	13.4	94	0.00
90		trans-1,4-Dichloro-2-Butene	50.000	47.909	4.2	96	0.00
91	i	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	106	0.00
92	P	1,1,2,2-Tetrachloroethane	50.000	48.982	2.0	102	0.00
93		Bromobenzene	50.000	49.530	0.9	102	0.00
94		1,2,3-Trichloropropane	50.000	45.947	8.1	96	0.00
95		n-Propylbenzene	50.000	51.272	-2.5	104	0.00
96		2-Chlorotoluene	50.000	48.404	3.2	102	0.00
97		3-Chlorotoluene	50.000	47.925	4.2	100	0.00
98		4-Chlorotoluene	50.000	50.175	-0.3	102	0.00
99		1,3,5-Trimethylbenzene	50.000	51.383	-2.8	101	0.00
100		tert-Butylbenzene	50.000	51.626	-3.3	103	0.00
101		1,2,4-Trimethylbenzene	50.000	51.290	-2.6	102	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8398.D
Acq On : 25 Feb 2024 01:48 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 25 14:04:03 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
102		3,4-Dichlorobenzotrifluorid	50.000	58.110	-16.2	116	0.00
103		sec-Butylbenzene	50.000	52.837	-5.7	104	0.00
104		p-Isopropyltoluene	50.000	54.835	-9.7	104	0.00
105	P	1,3-Dclbenz	50.000	51.152	-2.3	103	0.00
106	P	1,4-Dclbenz	50.000	48.510	3.0	102	0.00
107		2,4-Dichlorobenzotrifluorid	50.000	56.776	-13.6	115	0.00
108		2,5-Dichlorobenzotrifluorid	50.000	56.647	-13.3	116	0.00
109		n-Butylbenzene	50.000	54.444	-8.9	105	0.00
110	P	1,2-Dclbenz	50.000	49.440	1.1	101	0.00
111	P	1,2-Dibromo-3-chloropropane	50.000	50.894	-1.8	101	0.00
112		Trielution Dichlorotoluene	150.000	153.354	-2.2	104	0.00
113		1,3,5-Trichlorobenzene	50.000	52.887	-5.8	109	0.00
114		Coelution Dichlorotoluene	100.000	101.075	-1.1	103	0.00
115	P	1,2,4-Tcbenzene	50.000	53.473	-6.9	112	0.00
116		Hexachlorobt	50.000	59.690	-19.4	120	0.00
117		Naphthalen	50.000	46.143	7.7	95	0.00
118		1,2,3-Tclbenzene	50.000	53.562	-7.1	111	0.00
119		2,4,5-Trichlorotoluene	50.000	54.848	-9.7	110	0.00
120		2,3,6-Trichlorotoluene	50.000	0.000	100.0#	0	-14.70#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8398.D
Acq On : 25 Feb 2024 01:48 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 25 14:04:03 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.350	168	444220	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.478	114	702932	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.934	117	678858	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	12.031	152	388306	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.216	113	214446	47.59	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 95.18%			
48) surr1,1,2-dichloroetha...	5.770	65	272799	46.13	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 92.26%			
65) SURR3,Toluene-d8	8.367	98	852885	46.53	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 93.06%			
70) SURR2,BFB	11.044	95	332157	47.71	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 95.42%			
Target Compounds						Qvalue
2) Chlorodifluoromethane	1.149	51	165112	44.736	ug/L	95
3) Dichlorodifluoromethane	1.119	85	219258m	47.189	ug/L	
4) Chloromethane	1.271	50	278152m	59.635	ug/L	
5) Vinyl Chloride	1.326	62	251402	46.629	ug/L	94
6) Bromomethane	1.546	94	167775m	27.127	ug/L	
7) Chloroethane	1.625	64	229116	47.150	ug/L	99
8) Freon 21	1.777	67	418031	46.648	ug/L	99
9) Trichlorofluoromethane	1.820	101	353100	49.766	ug/L	99
10) Diethyl Ether	2.052	59	198452	47.604	ug/L	99
11) Freon 123a	2.058	67	234931	47.838	ug/L	98
12) Freon 123	2.113	83	222518	43.436	ug/L	98
13) Acrolein	2.167	56	226172	231.038	ug/L	99
14) 1,1-Diclethene	2.241	96	150685	47.420	ug/L	96
15) Freon 113	2.241	101	163833	51.406	ug/L	98
16) Acetone	2.302	43	118713	45.053	ug/L	96
17) 2-Propanol	2.442	45	339447	801.334	ug/L	100
18) Iodomethane	2.375	142	169444m	35.391	ug/L	
19) Carbon Disulfide	2.430	76	494049	50.496	ug/L	98
20) Acetonitrile	2.576	41	304771m	270.860	ug/L	
21) Allyl Chloride	2.576	76	96987	49.879	ug/L #	78
22) Methyl Acetate	2.606	43	283371	43.612	ug/L	99
23) Methylene Chloride	2.698	84	184054	46.384	ug/L	100
24) TBA	2.844	59	587550	796.913	ug/L	95
25) Acrylonitrile	2.978	53	553677	228.023	ug/L	97
26) Methyl-t-Butyl Ether	2.990	73	632253	45.496	ug/L	99
27) trans-1,2-Dichloroethene	2.978	96	188861	49.538	ug/L	99
28) 1,1-Diclethane	3.490	63	356439	49.308	ug/L	100
29) Vinyl Acetate	3.582	86	33768	56.588	ug/L #	95
30) DIPE	3.594	45	608076	46.126	ug/L	95
31) 2-Chloro-1,3-Butadiene	3.600	53	351549	51.914	ug/L	99
32) ETBE	4.118	59	547328	43.885	ug/L	99
33) 2,2-Dichloropropane	4.313	77	269619	52.872	ug/L	96
34) cis-1,2-Dichloroethene	4.332	96	220278	48.688	ug/L	100
35) 2-Butanone	4.399	43	175780	49.059	ug/L	96
36) Propionitrile	4.515	54	233171	217.299	ug/L	99
37) Bromochloromethane	4.734	130	143758	48.069	ug/L	94
38) Methacrylonitrile	4.764	67	115176	43.880	ug/L	98
39) Tetrahydrofuran	4.825	42	97183	40.863	ug/L	94
40) Chloroform	4.911	83	360084	47.809	ug/L	97

1st FJ 02/25/24
2nd AM 02/28/24

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8398.D
Acq On : 25 Feb 2024 01:48 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 25 14:04:03 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-Trichloroethane	5.191	97	298925	50.499	ug/L	98
42) TAME	6.063	73	548074	44.723	ug/L	99
44) Cyclohexane	5.252	41	201970	49.987	ug/L	99
46) Carbontetrachloride	5.472	117	239944	55.395	ug/L	98
47) 1,1-Dichloropropene	5.490	75	266207	52.010	ug/L	98
49) Benzene	5.825	78	784581	49.928	ug/L	100
50) 1,2-Dichloroethane	5.892	62	318071	46.180	ug/L	99
51) Iso-Butyl Alcohol	5.892	43	255676	841.139	ug/L	100
52) n-Heptane	6.301	43	284414	60.214	ug/L	97
53) 1-Butanol	6.892	56	373570	2122.305	ug/L	98
54) Trichloroethene	6.807	130	212083	50.343	ug/L	98
55) Methylcyclohexane	7.032	55	264936	53.358	ug/L	97
56) 1,2-Diclpropane	7.118	63	215216	49.809	ug/L	99
57) Dibromomethane	7.270	93	152487	47.434	ug/L	96
58) 1,4-Dioxane	7.343	88	90839	871.675	ug/L	99
59) Methyl Methacrylate	7.355	69	189229	48.421	ug/L	98
60) Bromodichloromethane	7.508	83	280872	50.946	ug/L	100
61) 2-Nitropropane	7.831	41	135755	93.823	ug/L	94
62) 2-Chloroethylvinyl Ether	7.935	63	161346	55.453	ug/L	100
63) cis-1,3-Dichloropropene	8.069	75	331001	50.559	ug/L	99
64) 4-Methyl-2-pentanone	8.300	43	360789	51.213	ug/L	97
66) Toluene	8.447	91	919681	51.100	ug/L	99
67) trans-1,3-Dichloropropene	8.745	75	304977	52.141	ug/L	97
68) Ethyl Methacrylate	8.886	69	334955	50.992	ug/L	94
69) 1,1,2-Trichloroethane	8.947	97	213925	48.647	ug/L	98
72) Tetrachloroethene	9.056	164	181163	56.077	ug/L	97
73) 2-Hexanone	9.257	43	264924	50.316	ug/L	97
74) 1,3-Dichloropropane	9.123	76	374441	48.367	ug/L	99
75) Dibromochloromethane	9.355	129	230282	51.751	ug/L	98
76) N-Butyl Acetate	9.410	43	460279	48.219	ug/L	98
77) 1,2-Dibromoethane	9.459	107	227087	48.967	ug/L	99
78) 3-Chlorobenzotrifluoride	9.983	180	341282	55.039	ug/L	99
79) Chlorobenzene	9.965	112	617797	49.907	ug/L	99
80) 4-Chlorobenzotrifluoride	10.038	180	302065	56.931	ug/L	99
81) 1,1,1,2-Tetrachloroethane	10.056	131	202276	53.055	ug/L	96
82) Ethylbenzene	10.081	106	320304	51.824	ug/L	98
83) (m+p)Xylene	10.202	106	820243	105.693	ug/L	98
84) o-Xylene	10.568	106	401232	51.061	ug/L	98
85) Styrene	10.586	104	697165	52.932	ug/L	100
86) Bromoform	10.751	173	158834	52.560	ug/L	97
87) 2-Chlorobenzotrifluoride	10.830	180	340588	55.627	ug/L	97
88) Isopropylbenzene	10.910	105	1033842	52.612	ug/L	99
89) Cyclohexanone	11.001	55	1349811	866.177	ug/L	96
90) trans-1,4-Dichloro-2-B...	11.245	53	101901	47.909	ug/L	98
92) 1,1,2,2-Tetrachloroethane	11.196	83	353597	48.982	ug/L	98
93) Bromobenzene	11.166	156	277629	49.530	ug/L	99
94) 1,2,3-Trichloropropane	11.227	110	111649	45.947	ug/L	99
95) n-Propylbenzene	11.275	91	1272446	51.272	ug/L	99
96) 2-Chlorotoluene	11.342	91	723323	48.404	ug/L	98
97) 3-Chlorotoluene	11.397	91	730032	47.925	ug/L	100
98) 4-Chlorotoluene	11.440	91	865083	50.175	ug/L	99
99) 1,3,5-Trimethylbenzene	11.434	105	909731	51.383	ug/L	97
100) tert-Butylbenzene	11.708	119	762619	51.626	ug/L	99
101) 1,2,4-Trimethylbenzene	11.745	105	912357	51.290	ug/L	99
102) 3,4-Dichlorobenzotrifl...	11.812	214	292657	58.110	ug/L	99
103) sec-Butylbenzene	11.891	105	1128914	52.837	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8398.D
Acq On : 25 Feb 2024 01:48 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 25 14:04:03 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

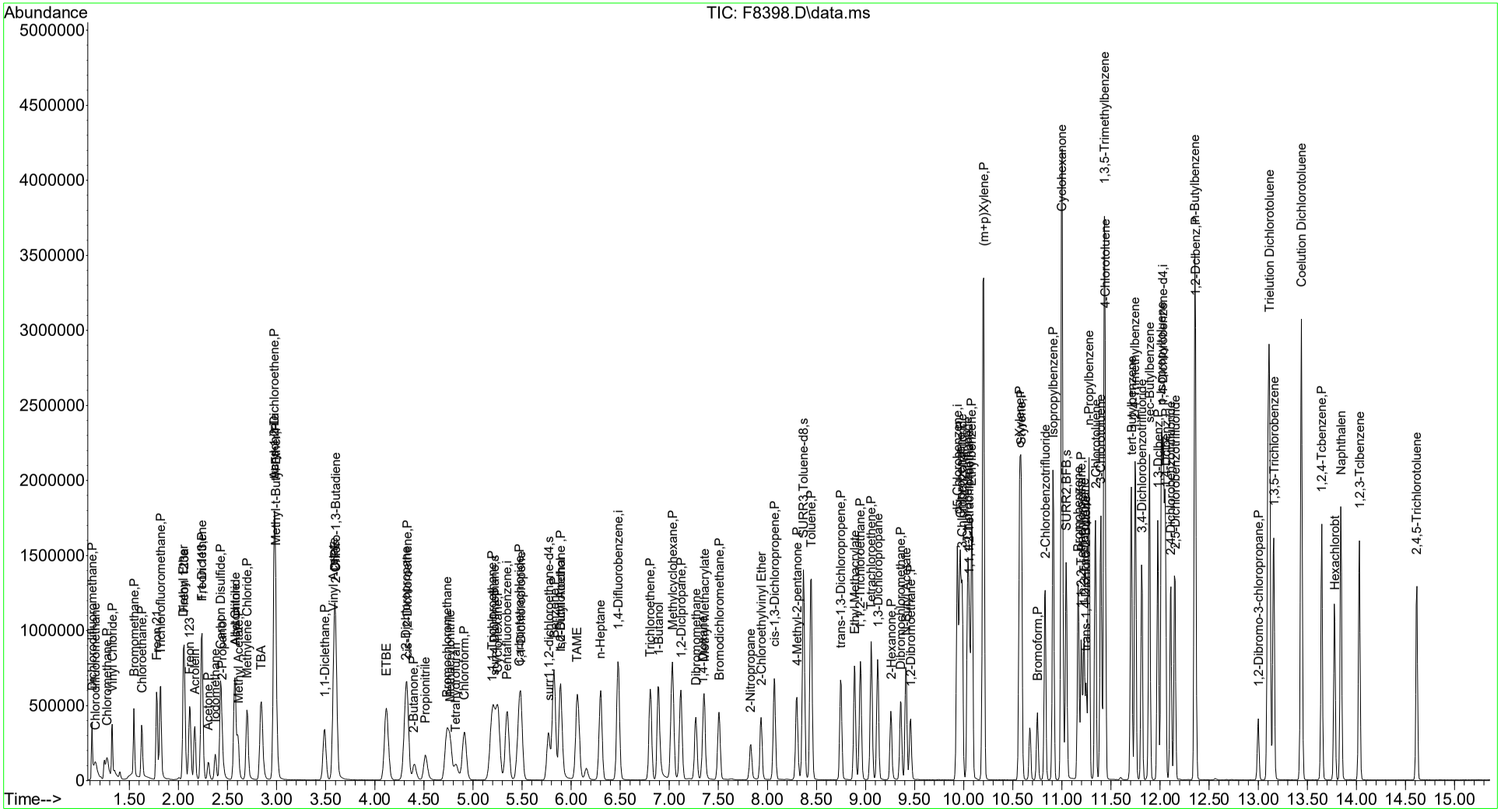
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) p-Isopropyltoluene	12.013	119	985537	54.835	ug/L	99
105) 1,3-Dclbenz	11.976	146	519464	51.152	ug/L	98
106) 1,4-Dclbenz	12.056	146	539187	48.510	ug/L	98
107) 2,4-Dichlorobenzotrifl...	12.111	214	260874	56.776	ug/L	98
108) 2,5-Dichlorobenzotrifl...	12.153	214	291159	56.647	ug/L	97
109) n-Butylbenzene	12.354	91	869043	54.444	ug/L	99
110) 1,2-Dclbenz	12.361	146	520242	49.440	ug/L	99
111) 1,2-Dibromo-3-chloropr...	13.001	157	81408	50.894	ug/L	96
112) Trielution Dichlorotol...	13.110	125	1313812	153.354	ug/L	99
113) 1,3,5-Trichlorobenzene	13.159	180	395394	52.887	ug/L	96
114) Coelution Dichlorotoluene	13.440	125	951882	101.075	ug/L	99
115) 1,2,4-Tcbenzene	13.647	180	376184	53.473	ug/L	96
116) Hexachlorobt	13.781	225	167663	59.690	ug/L	94
117) Naphthalen	13.842	128	1056368	46.143	ug/L	99
118) 1,2,3-Tclbenzene	14.031	180	375634	53.562	ug/L	98
119) 2,4,5-Trichlorotoluene	14.616	159	262589	54.848	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8398.D
Acq On : 25 Feb 2024 01:48 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 25 14:04:03 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

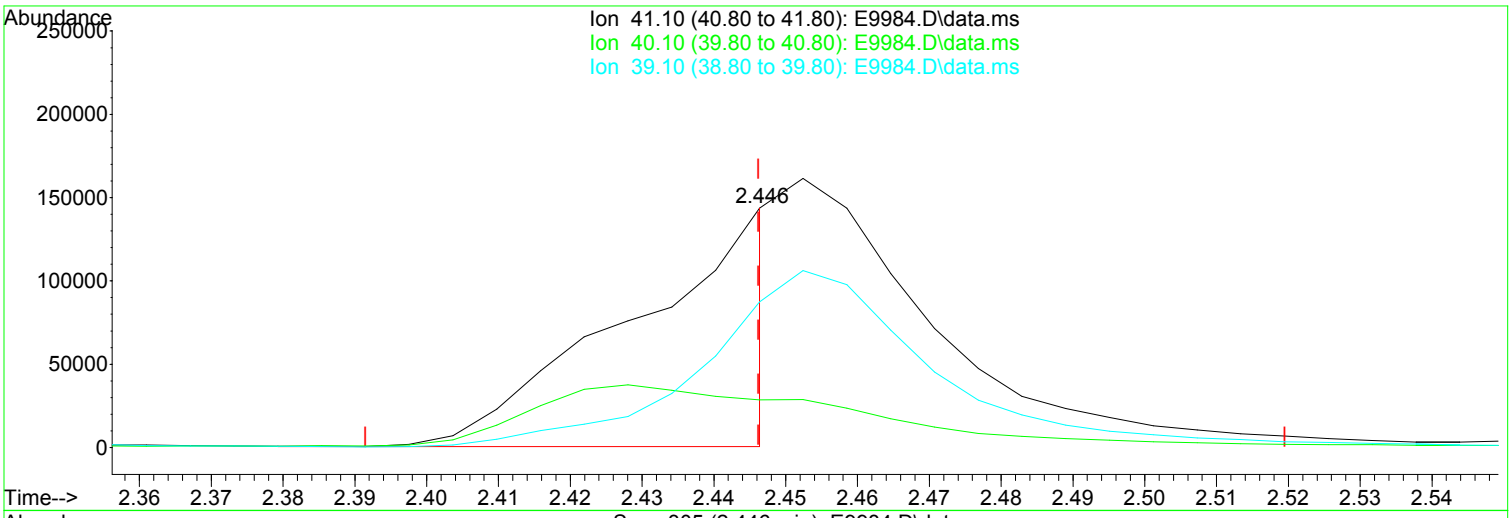


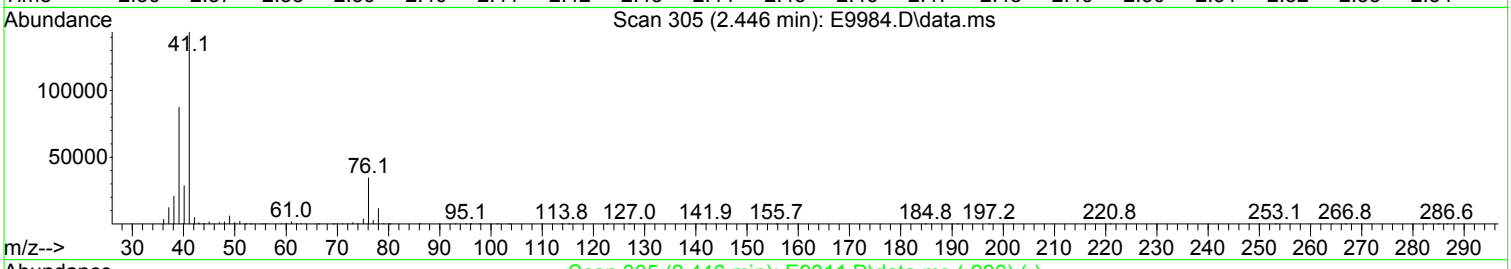
1st FJ 02/25/24
2nd AM 02/28/24

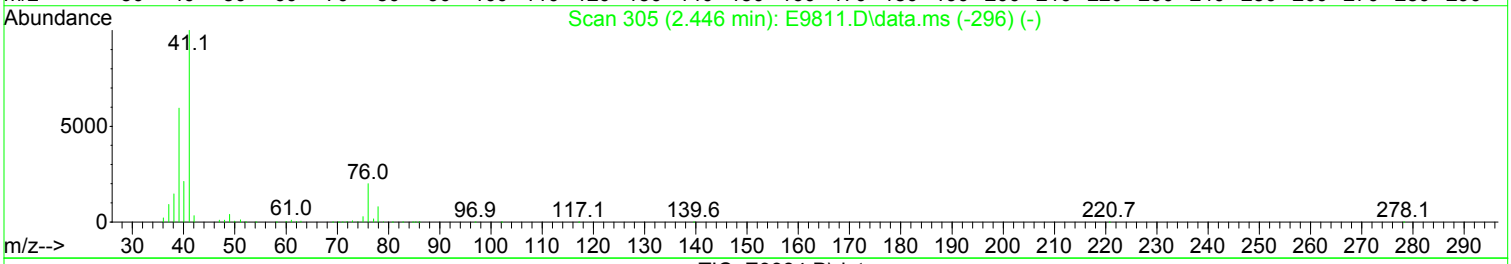
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : E9984.D
Acq On : 26 Feb 2024 09:56 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 26 10:14:02 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration







TIC: E9984.D\data.ms

(20) Acetonitrile

2.446min (+ 0.000) 226.68 ug/L m

response 201363

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	21.20	19.93
39.10	59.50	60.83
0.00	0.00	0.00

Manual Integration:

After

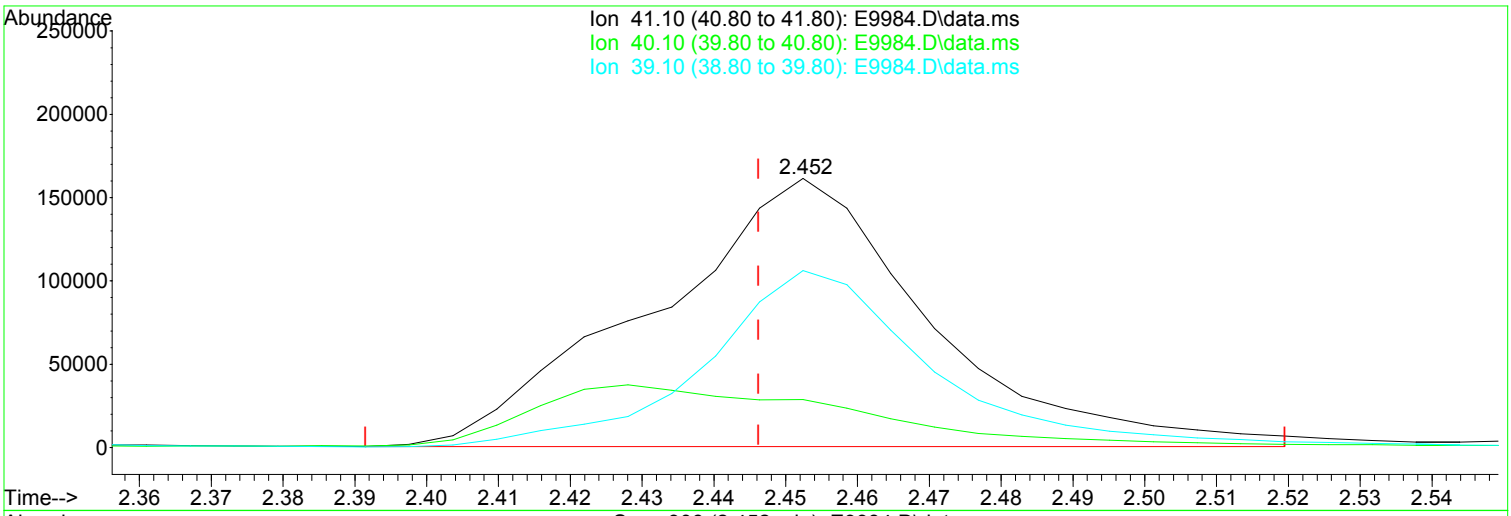
Poor integration.

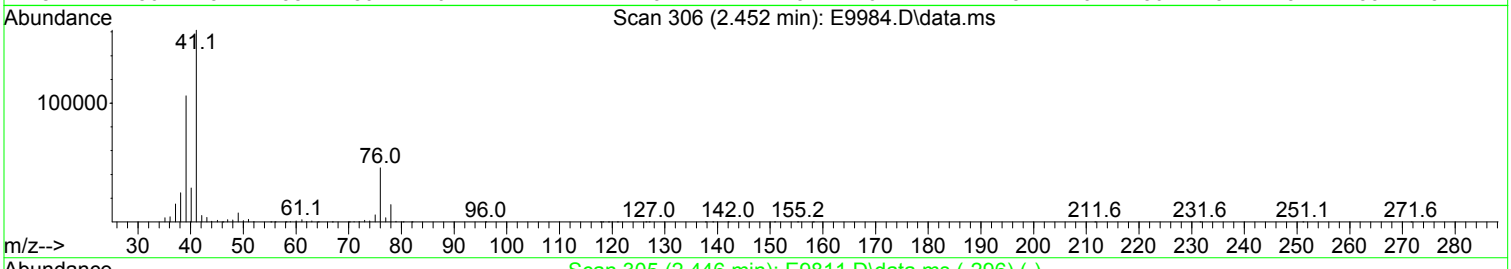
02/26/24

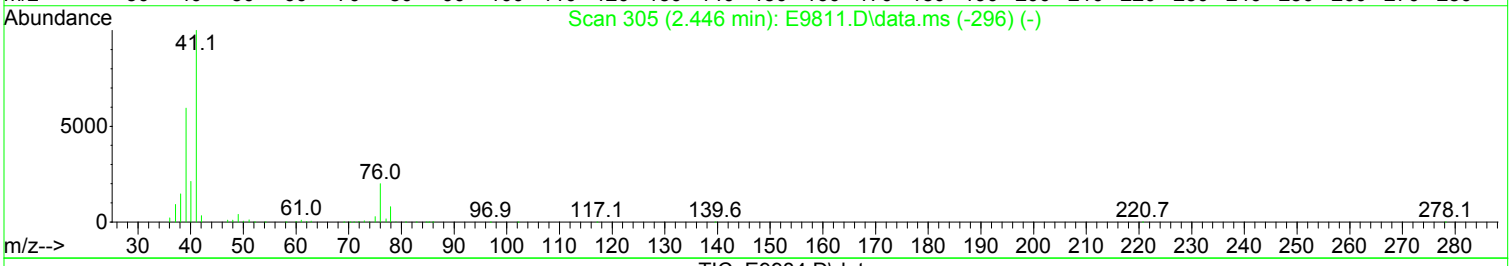
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : E9984.D
Acq On : 26 Feb 2024 09:56 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 26 10:14:02 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration







TIC: E9984.D\data.ms

(20) Acetonitrile

2.452min (+ 0.006) 487.21 ug/L

response 432804

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	21.20	17.79
39.10	59.50	65.84
0.00	0.00	0.00

Manual Integration:

Before

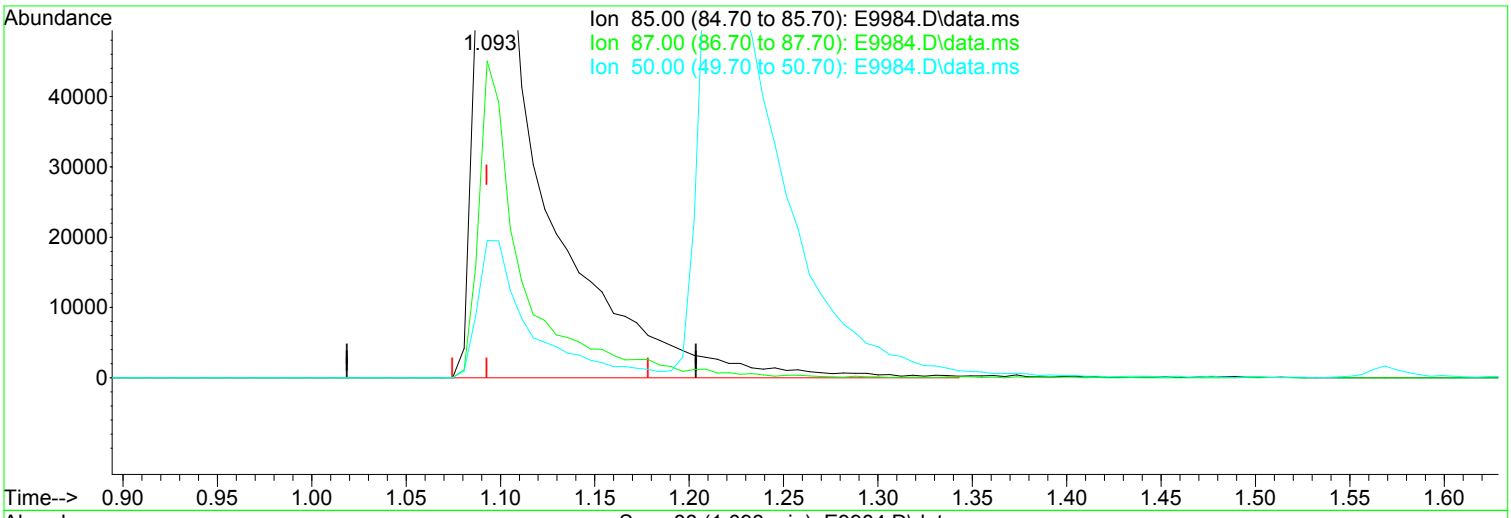
02/26/24

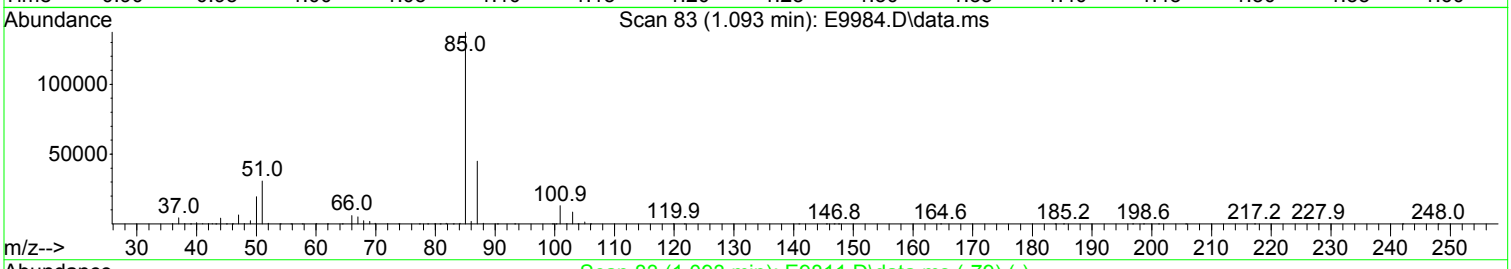
1st FJ 02/26/24
2nd AM 02/28/24

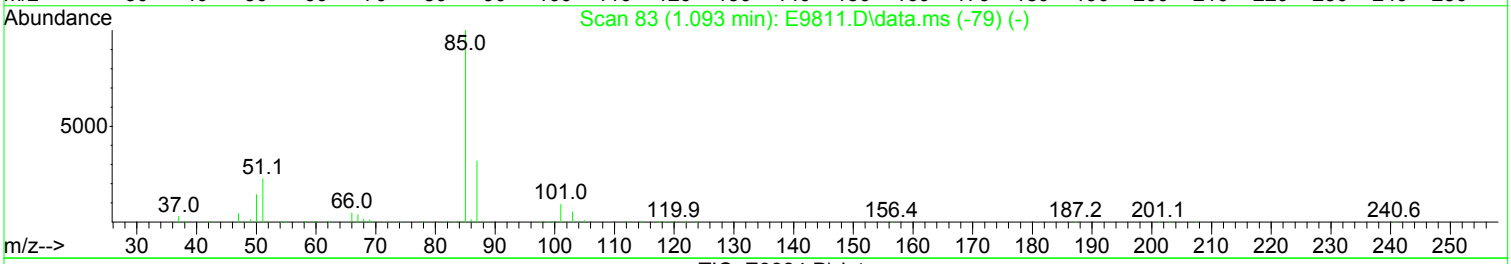
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : E9984.D
Acq On : 26 Feb 2024 09:56 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 26 10:14:02 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration







TIC: E9984.D\data.ms

(3) Dichlorodifluoromethane (P)

1.093min (+ 0.000) 38.29 ug/L m

response 229282

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.90	32.81
50.00	14.40	14.23
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

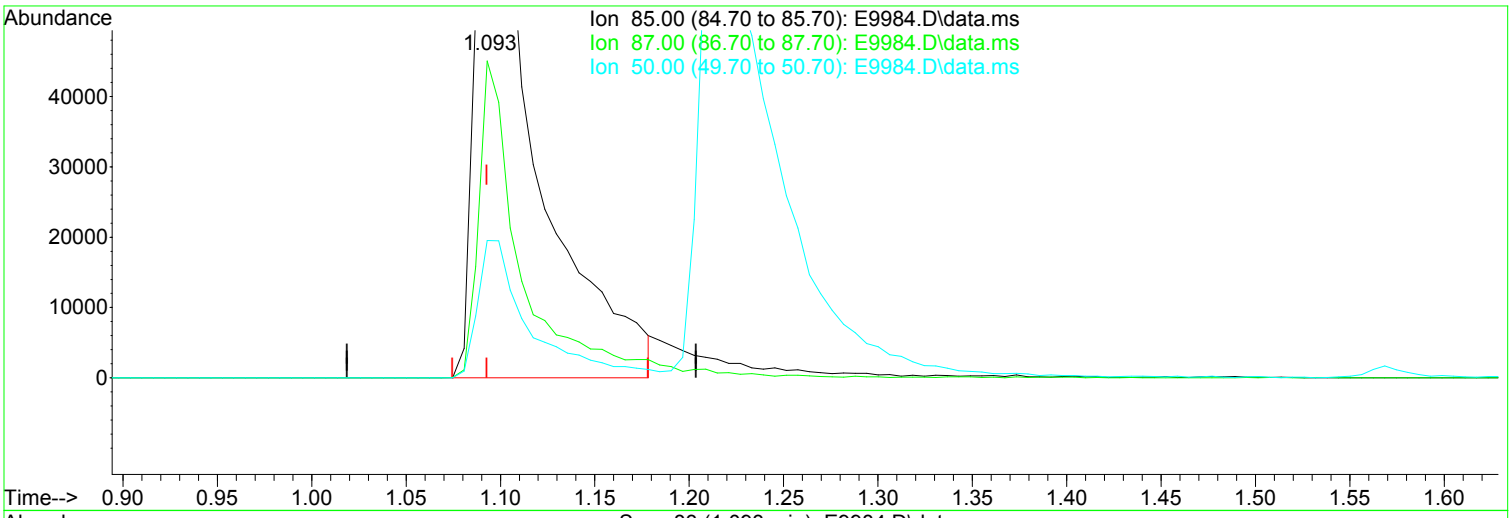
02/26/24

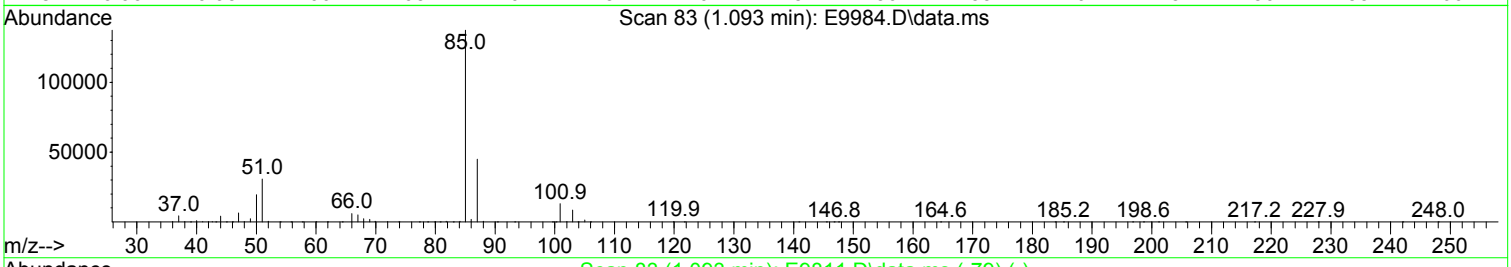
1st FJ 02/26/24
2nd AM 02/28/24

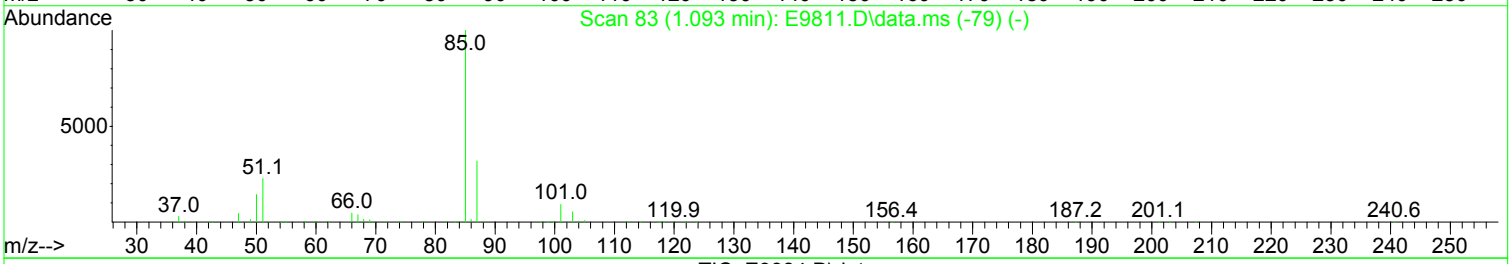
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : E9984.D
Acq On : 26 Feb 2024 09:56 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 26 10:14:02 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration







TIC: E9984.D\data.ms

(3) Dichlorodifluoromethane (P)

1.093min (+ 0.000) 35.84 ug/L

response 214612

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.90	32.81
50.00	14.40	14.23
0.00	0.00	0.00

Manual Integration:

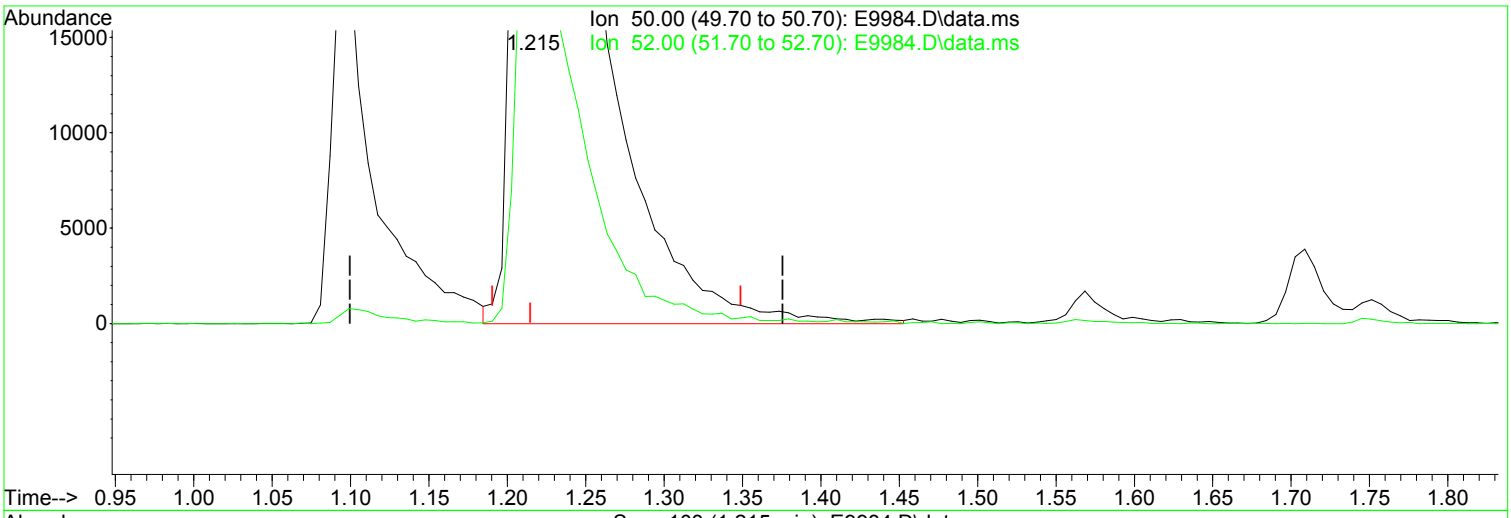
Before

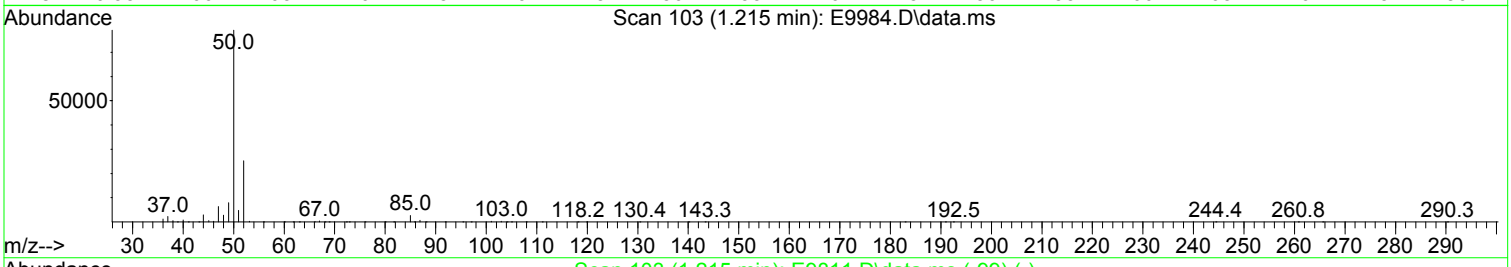
02/26/24

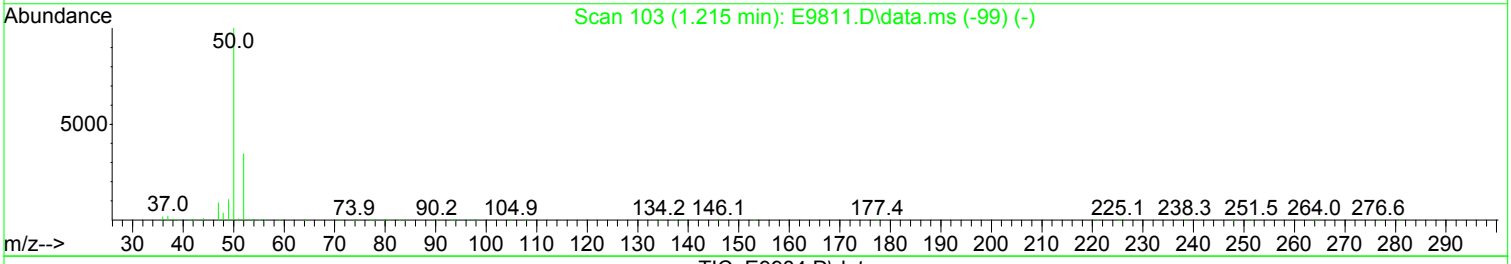
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : E9984.D
Acq On : 26 Feb 2024 09:56 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 26 10:14:02 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration







TIC: E9984.D\data.ms

(4) Chloromethane (P)

1.215min (+ 0.000) 42.25 ug/L m

response 197549

Ion	Exp%	Act%
50.00	100.00	100.00
52.00	34.00	31.86
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

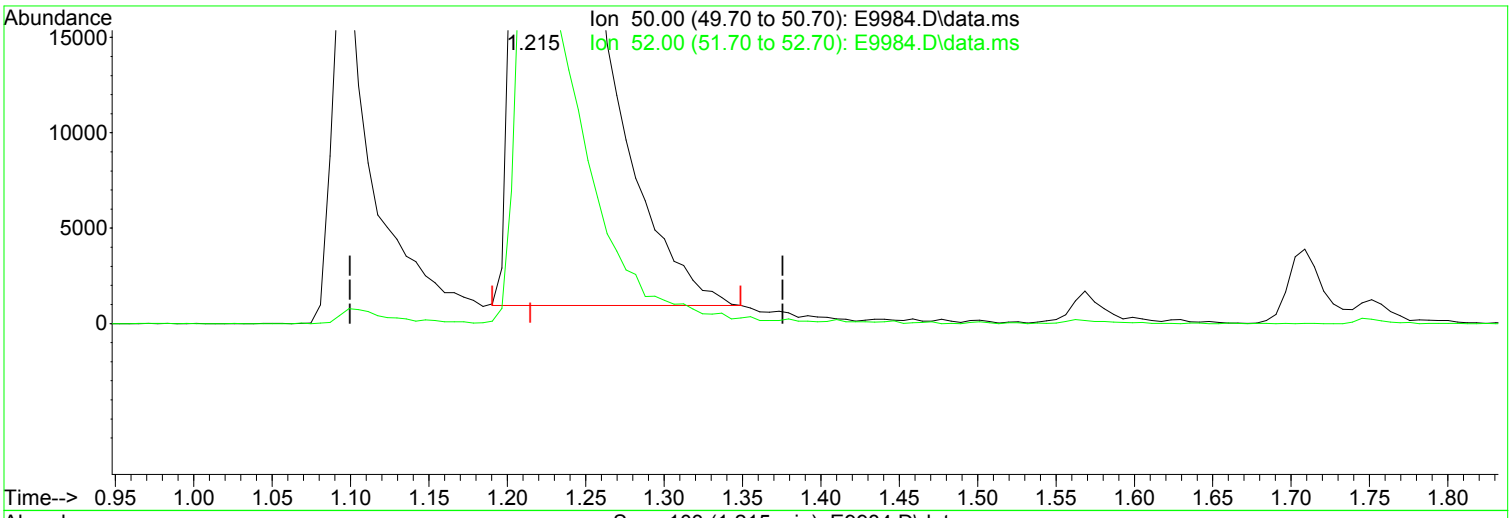
Poor integration.

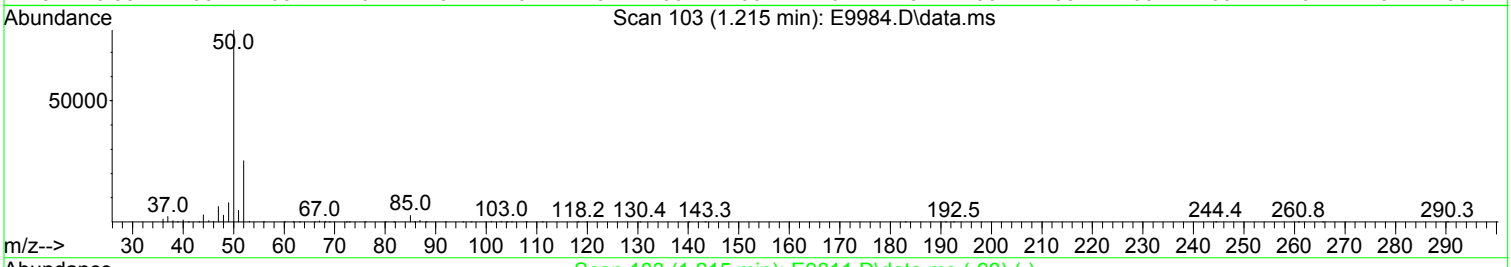
02/26/24

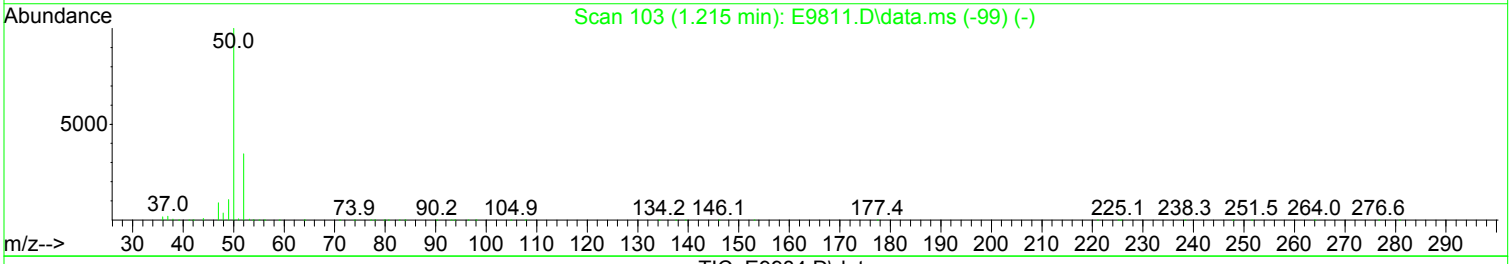
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : E9984.D
Acq On : 26 Feb 2024 09:56 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 26 10:14:02 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration







TIC: E9984.D\data.ms

(4) Chloromethane (P) **Manual Integration:**

1.215min (+ 0.000) 39.76 ug/L **Before**

response 185931

Ion	Exp%	Act%	02/26/24
50.00	100.00	100.00	
52.00	34.00	31.86	
0.00	0.00	0.00	
0.00	0.00	0.00	

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : E9984.D
Acq On : 26 Feb 2024 09:56 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 26 10:14:02 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	i	Pentafluorobenzene	50.000	50.000	0.0	101	0.00
2		Chlorodifluoromethane	50.000	37.035	25.9#	76	0.00
3	P	Dichlorodifluoromethane	50.000	38.289	23.4#	71	0.00
4	P	Chloromethane	50.000	42.246	15.5	86	0.00
5	P	Vinyl Chloride	50.000	40.674	18.7	79	0.00
6	P	Bromomethane	50.000	45.648	8.7	89	0.00
7	P	Chloroethane	50.000	42.548	14.9	83	0.00
8		Freon 21	50.000	43.155	13.7	90	0.00
9	P	Trichlorofluoromethane	50.000	41.427	17.1	81	0.00
10		Diethyl Ether	50.000	46.725	6.5	94	0.00
11		Freon 123a	50.000	42.033	15.9	88	0.00
12		Freon 123	50.000	43.354	13.3	88	0.00
13		Acrolein	250.000	204.049	18.4	85	0.00
14		1,1-Diclethene	50.000	41.242	17.5	82	0.00
15	P	Freon 113	50.000	41.192	17.6	80	0.00
16	P	Acetone	50.000	44.108	11.8	91	0.00
17		2-Propanol	1000.000	795.609	20.4#	84	0.00
18		Iodomethane	50.000	44.608	10.8	86	0.00
19	P	Carbon Disulfide	50.000	42.532	14.9	84	0.00
20		Acetonitrile	250.000	226.677	9.3	90	0.00
21		Allyl Chloride	50.000	44.382	11.2	87	0.00
22	P	Methyl Acetate	50.000	40.588	18.8	86	0.00
23	P	Methylene Chloride	50.000	46.137	7.7	92	0.00
24		TBA	1000.000	779.805	22.0#	81	0.00
25		Acrylonitrile	250.000	216.102	13.6	88	0.00
26	P	Methyl-t-Butyl Ether	50.000	46.444	7.1	94	0.00
27	P	trans-1,2-Dichloroethene	50.000	42.205	15.6	85	0.00
28	P	1,1-Diclethane	50.000	44.329	11.3	87	0.00
29		Vinyl Acetate	50.000	47.234	5.5	93	0.00
30		DIPE	50.000	47.186	5.6	96	0.00
31		2-Chloro-1,3-Butadiene	50.000	42.707	14.6	87	0.00
32		ETBE	50.000	46.785	6.4	95	0.00
33		2,2-Dichloropropane	50.000	43.732	12.5	87	0.00
34	P	cis-1,2-Dichloroethene	50.000	44.828	10.3	90	0.00
35	P	2-Butanone	50.000	42.435	15.1	89	0.00
36		Propionitrile	250.000	210.108	16.0	85	0.00
37		Bromochloromethane	50.000	46.456	7.1	93	0.00
38		Methacrylonitrile	50.000	44.097	11.8	89	0.00
39		Tetrahydrofuran	50.000	41.500	17.0	86	0.00
40	P	Chloroform	50.000	43.636	12.7	91	0.00
41	P	1,1,1-Trichloroethane	50.000	43.182	13.6	84	0.00
42		TAME	50.000	46.420	7.2	94	0.00
43	i	1,4-Difluorobenzene	50.000	50.000	0.0	102	0.00
44	P	Cyclohexane	50.000	42.262	15.5	89	0.00
45	s	surr4,Dibrflmethane	50.000	51.080	-2.2	100	0.00
46	P	Carbontetrachloride	50.000	41.597	16.8	83	0.00
47		1,1-Dichloropropene	50.000	40.092	19.8	83	0.00
48	s	surr1,1,2-dichloroethane-d4	50.000	50.978	-2.0	100	0.00
49	P	Benzene	50.000	43.628	12.7	87	0.00
50	P	1,2-Dichloroethane	50.000	46.347	7.3	95	0.00
51		Iso-Butyl Alcohol	1000.000	857.636	14.2	84	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : E9984.D
Acq On : 26 Feb 2024 09:56 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 26 10:14:02 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52		n-Heptane	50.000	40.345	19.3	82	0.00
53		1-Butanol	2500.000	2140.115	14.4	78	0.00
54	P	Trichloroethene	50.000	42.418	15.2	86	0.00
55	P	Methylcyclohexane	50.000	42.083	15.8	89	0.00
56	P	1,2-Diclpropane	50.000	45.729	8.5	92	0.00
57		Dibromomethane	50.000	46.330	7.3	95	0.00
58		1,4-Dioxane	1000.000	821.629	17.8	83	0.00
59		Methyl Methacrylate	50.000	45.649	8.7	89	0.00
60	P	Bromodichloromethane	50.000	47.915	4.2	94	0.00
61		2-Nitropropane	100.000	89.865	10.1	92	0.00
62		2-Chloroethylvinyl Ether	50.000	39.498	21.0#	80	0.00
63	P	cis-1,3-Dichloropropene	50.000	47.286	5.4	94	0.00
64	P	4-Methyl-2-pentanone	50.000	41.008	18.0	84	0.00
65	s	SURR3,Toluene-d8	50.000	49.817	0.4	98	0.00
66	P	Toluene	50.000	44.235	11.5	88	0.00
67	P	trans-1,3-Dichloropropene	50.000	48.198	3.6	95	0.00
68		Ethyl Methacrylate	50.000	47.072	5.9	91	0.00
69	P	1,1,2-Trichloroethane	50.000	46.740	6.5	93	0.00
70	s	SURR2,BFB	50.000	50.496	-1.0	102	0.00
71	i	d5-Chlorobenzene	50.000	50.000	0.0	100	0.00
72	P	Tetrachloroethene	50.000	41.663	16.7	84	0.00
73	P	2-Hexanone	50.000	42.229	15.5	86	0.00
74		1,3-Dichloropropane	50.000	45.915	8.2	95	0.00
75	P	Dibromochloromethane	50.000	50.854	-1.7	96	0.00
76		N-Butyl Acetate	50.000	44.451	11.1	91	0.00
77	P	1,2-Dibromoethane	50.000	46.511	7.0	95	0.00
78		3-Chlorobenzotrifluoride	50.000	45.975	8.0	92	0.00
79	P	Chlorobenzene	50.000	44.112	11.8	90	0.00
80		4-Chlorobenzotrifluoride	50.000	45.587	8.8	92	0.00
81		1,1,1,2-Tetrachloroethane	50.000	47.357	5.3	92	0.00
82	P	Ethylbenzene	50.000	43.356	13.3	86	0.00
83	P	(m+p)Xylene	100.000	87.387	12.6	87	0.00
84	P	o-Xylene	50.000	44.328	11.3	89	0.00
85	P	Styrene	50.000	46.939	6.1	91	0.00
86	P	Bromoform	50.000	49.678	0.6	93	0.00
87		2-Chlorobenzotrifluoride	50.000	46.655	6.7	91	0.00
88	P	Isopropylbenzene	50.000	43.058	13.9	85	0.00
89		Cyclohexanone	1000.000	809.432	19.1	82	0.00
90		trans-1,4-Dichloro-2-Butene	50.000	47.161	5.7	91	0.00
91	i	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	98	0.00
92	P	1,1,2,2-Tetrachloroethane	50.000	44.295	11.4	91	0.00
93		Bromobenzene	50.000	45.194	9.6	93	0.00
94		1,2,3-Trichloropropane	50.000	42.733	14.5	90	0.00
95		n-Propylbenzene	50.000	42.635	14.7	86	0.00
96		2-Chlorotoluene	50.000	43.680	12.6	88	0.00
97		3-Chlorotoluene	50.000	46.564	6.9	95	0.00
98		4-Chlorotoluene	50.000	43.957	12.1	91	0.00
99		1,3,5-Trimethylbenzene	50.000	43.687	12.6	87	0.00
100		tert-Butylbenzene	50.000	42.629	14.7	85	0.00
101		1,2,4-Trimethylbenzene	50.000	45.786	8.4	89	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : E9984.D
Acq On : 26 Feb 2024 09:56 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 26 10:14:02 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
102		3,4-Dichlorobenzotrifluorid	50.000	48.723	2.6	94	0.00
103		sec-Butylbenzene	50.000	42.570	14.9	84	0.00
104		p-Isopropyltoluene	50.000	43.943	12.1	86	0.00
105	P	1,3-Dclbenz	50.000	44.404	11.2	90	0.00
106	P	1,4-Dclbenz	50.000	44.242	11.5	91	0.00
107		2,4-Dichlorobenzotrifluorid	50.000	44.942	10.1	90	0.00
108		2,5-Dichlorobenzotrifluorid	50.000	47.095	5.8	94	0.00
109		n-Butylbenzene	50.000	44.439	11.1	85	0.00
110	P	1,2-Dclbenz	50.000	46.030	7.9	93	0.00
111	P	1,2-Dibromo-3-chloropropane	50.000	46.218	7.6	88	0.00
112		Trielution Dichlorotoluene	150.000	146.435	2.4	95	0.00
113		1,3,5-Trichlorobenzene	50.000	48.477	3.0	96	0.00
114		Coelution Dichlorotoluene	100.000	97.500	2.5	95	0.00
115	P	1,2,4-Tcbenzene	50.000	47.868	4.3	93	0.00
116		Hexachlorobt	50.000	43.830	12.3	85	0.00
117		Naphthalen	50.000	47.635	4.7	90	0.00
118		1,2,3-Tclbenzene	50.000	48.951	2.1	94	0.00
119		2,4,5-Trichlorotoluene	50.000	49.615	0.8	92	0.00
120		2,3,6-Trichlorotoluene	50.000	51.096	-2.2	96	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : E9984.D
Acq On : 26 Feb 2024 09:56 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 26 10:14:02 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.080	168	469860	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.238	114	694850	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.616	117	619912	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	11.682	152	316584	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.915	113	230046	51.08	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 102.16%			
48) surr1,1,2-dichloroetha...	5.501	65	275334	50.98	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 101.96%			
65) SURR3,Toluene-d8	8.098	98	808202	49.82	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.64%			
70) SURR2,BFB	10.701	95	313486	50.50	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.00%			
Target Compounds						Qvalue
2) Chlorodifluoromethane	1.099	51	163650	37.035	ug/L	98
3) Dichlorodifluoromethane	1.093	85	229282m	38.289	ug/L	
4) Chloromethane	1.215	50	197549m	42.246	ug/L	
5) Vinyl Chloride	1.288	62	193917	40.674	ug/L	100
6) Bromomethane	1.495	94	117669	45.648	ug/L	97
7) Chloroethane	1.568	64	135217	42.548	ug/L	100
8) Freon 21	1.709	67	297266	43.155	ug/L	100
9) Trichlorofluoromethane	1.751	101	272539	41.427	ug/L	99
10) Diethyl Ether	1.971	59	166852	46.725	ug/L	98
11) Freon 123a	1.977	67	166948	42.033	ug/L	100
12) Freon 123	2.026	83	220501	43.354	ug/L	99
13) Acrolein	2.062	56	192302	204.049	ug/L	97
14) 1,1-Diclethene	2.142	96	149854	41.242	ug/L	98
15) Freon 113	2.154	101	157137	41.192	ug/L	96
16) Acetone	2.190	43	96943	44.108	ug/L	98
17) 2-Propanol	2.318	45	300728	795.609	ug/L	100
18) Iodomethane	2.263	142	268420	44.608	ug/L	99
19) Carbon Disulfide	2.318	76	432514	42.532	ug/L	99
20) Acetonitrile	2.446	41	201363m	226.677	ug/L	
21) Allyl Chloride	2.452	76	90196	44.382	ug/L	96
22) Methyl Acetate	2.477	43	231314	40.588	ug/L	98
23) Methylene Chloride	2.562	84	173833	46.137	ug/L	97
24) TBA	2.696	59	511068	779.805	ug/L	99
25) Acrylonitrile	2.806	53	445795	216.102	ug/L	100
26) Methyl-t-Butyl Ether	2.849	73	581515	46.444	ug/L	98
27) trans-1,2-Dichloroethene	2.837	96	165445	42.205	ug/L	99
28) 1,1-Diclethane	3.306	63	305102	44.329	ug/L	100
29) Vinyl Acetate	3.397	86	27067	47.234	ug/L #	89
30) DIPE	3.422	45	610635	47.186	ug/L	100
31) 2-Chloro-1,3-Butadiene	3.416	53	297802	42.707	ug/L	98
32) ETBE	3.916	59	593180	46.785	ug/L	98
33) 2,2-Dichloropropane	4.080	77	266804	43.732	ug/L	99
34) cis-1,2-Dichloroethene	4.086	96	195093	44.828	ug/L	98
35) 2-Butanone	4.147	43	120301	42.435	ug/L	97
36) Propionitrile	4.233	54	174796	210.108	ug/L	99
37) Bromochloromethane	4.464	130	138168	46.456	ug/L	99
38) Methacrylonitrile	4.483	67	88725	44.097	ug/L	100
39) Tetrahydrofuran	4.568	42	71982	41.500	ug/L	96
40) Chloroform	4.635	83	316277	43.636	ug/L	99

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : E9984.D
Acq On : 26 Feb 2024 09:56 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 26 10:14:02 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-Trichloroethane	4.915	97	281071	43.182	ug/L	97
42) TAME	5.836	73	528924	46.420	ug/L	99
44) Cyclohexane	5.001	41	165774	42.262	ug/L	95
46) Carbontetrachloride	5.220	117	245129	41.597	ug/L	97
47) 1,1-Dichloropropene	5.239	75	211176	40.092	ug/L	99
49) Benzene	5.574	78	636873	43.628	ug/L	100
50) 1,2-Dichloroethane	5.623	62	285771	46.347	ug/L	97
51) Iso-Butyl Alcohol	5.629	43	197089	857.636	ug/L	93
52) n-Heptane	6.092	43	243026	40.345	ug/L	98
53) 1-Butanol	6.641	56	291996	2140.115	ug/L	96
54) Trichloroethene	6.574	130	192704	42.418	ug/L	97
55) Methylcyclohexane	6.811	55	239158	42.083	ug/L	94
56) 1,2-Diclpropane	6.866	63	178388	45.729	ug/L	99
57) Dibromomethane	7.013	93	128275	46.330	ug/L	98
58) 1,4-Dioxane	7.086	88	55692	821.629	ug/L	97
59) Methyl Methacrylate	7.116	69	144948	45.649	ug/L	96
60) Bromodichloromethane	7.250	83	258406	47.915	ug/L	98
61) 2-Nitropropane	7.549	41	138803	89.865	ug/L	99
62) 2-Chloroethylvinyl Ether	7.677	63	56972	39.498	ug/L	97
63) cis-1,3-Dichloropropene	7.805	75	296836	47.286	ug/L	99
64) 4-Methyl-2-pentanone	8.025	43	218061	41.008	ug/L	100
66) Toluene	8.177	91	718412	44.235	ug/L	98
67) trans-1,3-Dichloropropene	8.457	75	287501	48.198	ug/L	98
68) Ethyl Methacrylate	8.610	69	270906	47.072	ug/L	99
69) 1,1,2-Trichloroethane	8.646	97	184975	46.740	ug/L	97
72) Tetrachloroethene	8.774	164	150584	41.663	ug/L	97
73) 2-Hexanone	8.957	43	163653	42.229	ug/L	99
74) 1,3-Dichloropropane	8.823	76	295548	45.915	ug/L	98
75) Dibromochloromethane	9.049	129	237627	50.854	ug/L	98
76) N-Butyl Acetate	9.116	43	357545	44.451	ug/L	98
77) 1,2-Dibromoethane	9.140	107	197537	46.511	ug/L	99
78) 3-Chlorobenzotrifluoride	9.671	180	304474	45.975	ug/L	96
79) Chlorobenzene	9.646	112	505986	44.112	ug/L	99
80) 4-Chlorobenzotrifluoride	9.732	180	275370	45.587	ug/L	98
81) 1,1,1,2-Tetrachloroethane	9.738	131	209213	47.357	ug/L	99
82) Ethylbenzene	9.768	106	257177	43.356	ug/L	94
83) (m+p)Xylene	9.884	106	630648	87.387	ug/L	99
84) o-Xylene	10.244	106	314628	44.328	ug/L	95
85) Styrene	10.256	104	563199	46.939	ug/L	97
86) Bromoform	10.408	173	151327	49.678	ug/L	99
87) 2-Chlorobenzotrifluoride	10.494	180	291138	46.655	ug/L	98
88) Isopropylbenzene	10.579	105	798058	43.058	ug/L	98
89) Cyclohexanone	10.646	55	847228	809.432	ug/L	97
90) trans-1,4-Dichloro-2-B...	10.896	53	83689	47.161	ug/L	90
92) 1,1,2,2-Tetrachloroethane	10.847	83	247524	44.295	ug/L	99
93) Bromobenzene	10.823	156	236355	45.194	ug/L	98
94) 1,2,3-Trichloropropane	10.878	110	86206	42.733	ug/L	99
95) n-Propylbenzene	10.939	91	911220	42.635	ug/L	99
96) 2-Chlorotoluene	11.000	91	570804	43.680	ug/L	100
97) 3-Chlorotoluene	11.055	91	642504	46.564	ug/L	100
98) 4-Chlorotoluene	11.091	91	685062	43.957	ug/L	96
99) 1,3,5-Trimethylbenzene	11.091	105	699005	43.687	ug/L	97
100) tert-Butylbenzene	11.365	119	598366	42.629	ug/L	100
101) 1,2,4-Trimethylbenzene	11.402	105	722528	45.786	ug/L	98
102) 3,4-Dichlorobenzotrifl...	11.469	214	240221	48.723	ug/L	98
103) sec-Butylbenzene	11.548	105	841609	42.570	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : E9984.D
Acq On : 26 Feb 2024 09:56 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 26 10:14:02 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) p-Isopropyltoluene	11.670	119	761827	43.943	ug/L	98
105) 1,3-Dclbenz	11.628	146	432112	44.404	ug/L	99
106) 1,4-Dclbenz	11.701	146	440292	44.242	ug/L	99
107) 2,4-Dichlorobenzotrifl...	11.762	214	208192	44.942	ug/L	97
108) 2,5-Dichlorobenzotrifl...	11.804	214	235730	47.095	ug/L	98
109) n-Butylbenzene	12.006	91	649153	44.439	ug/L	99
110) 1,2-Dclbenz	12.006	146	434086	46.030	ug/L	99
111) 1,2-Dibromo-3-chloropr...	12.634	157	65603	46.218	ug/L	95
112) Trielution Dichlorotol...	12.755	125	1239462	146.435	ug/L	99
113) 1,3,5-Trichlorobenzene	12.798	180	334708	48.477	ug/L	98
114) Coelution Dichlorotoluene	13.079	125	867722	97.500	ug/L	100
115) 1,2,4-Tcbenzene	13.286	180	307603	47.868	ug/L	97
116) Hexachlorobt	13.426	225	140360	43.830	ug/L	98
117) Naphthalen	13.475	128	816227	47.635	ug/L	99
118) 1,2,3-Tclbenzene	13.664	180	293680	48.951	ug/L	99
119) 2,4,5-Trichlorotoluene	14.249	159	225414	49.615	ug/L	99
120) 2,3,6-Trichlorotoluene	14.334	159	217824	51.096	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : E9984.D
Acq On : 26 Feb 2024 09:56 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 26 10:14:02 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration

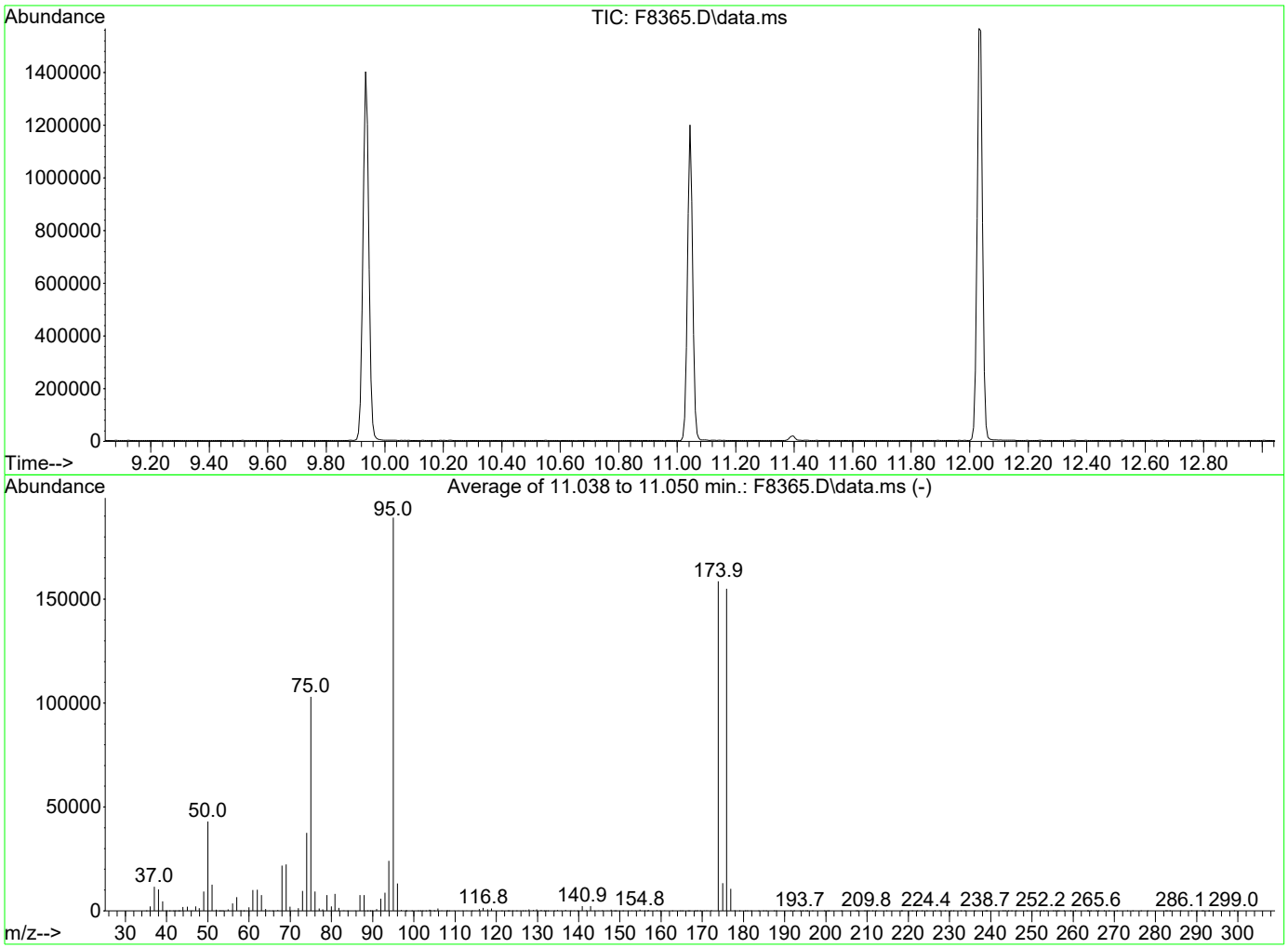
1st FJ 02/26/24
2nd AM 02/28/24

1st FJ 02/25/24
2nd AM 02/27/24

Data Path : I:\ACQUDATA\MSVOA14\Data\022324\
Data File : F8365.D
Acq On : 23 Feb 2024 10:34 am
Operator : F.NAEGLER
Sample : TUNE
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Title : MS#14 - 8260 WATERS 5mL Purge
Last Update : Wed Feb 21 09:22:24 2024



AutoFind: Scans 1635, 1636, 1637; Background Corrected with Scan 1629

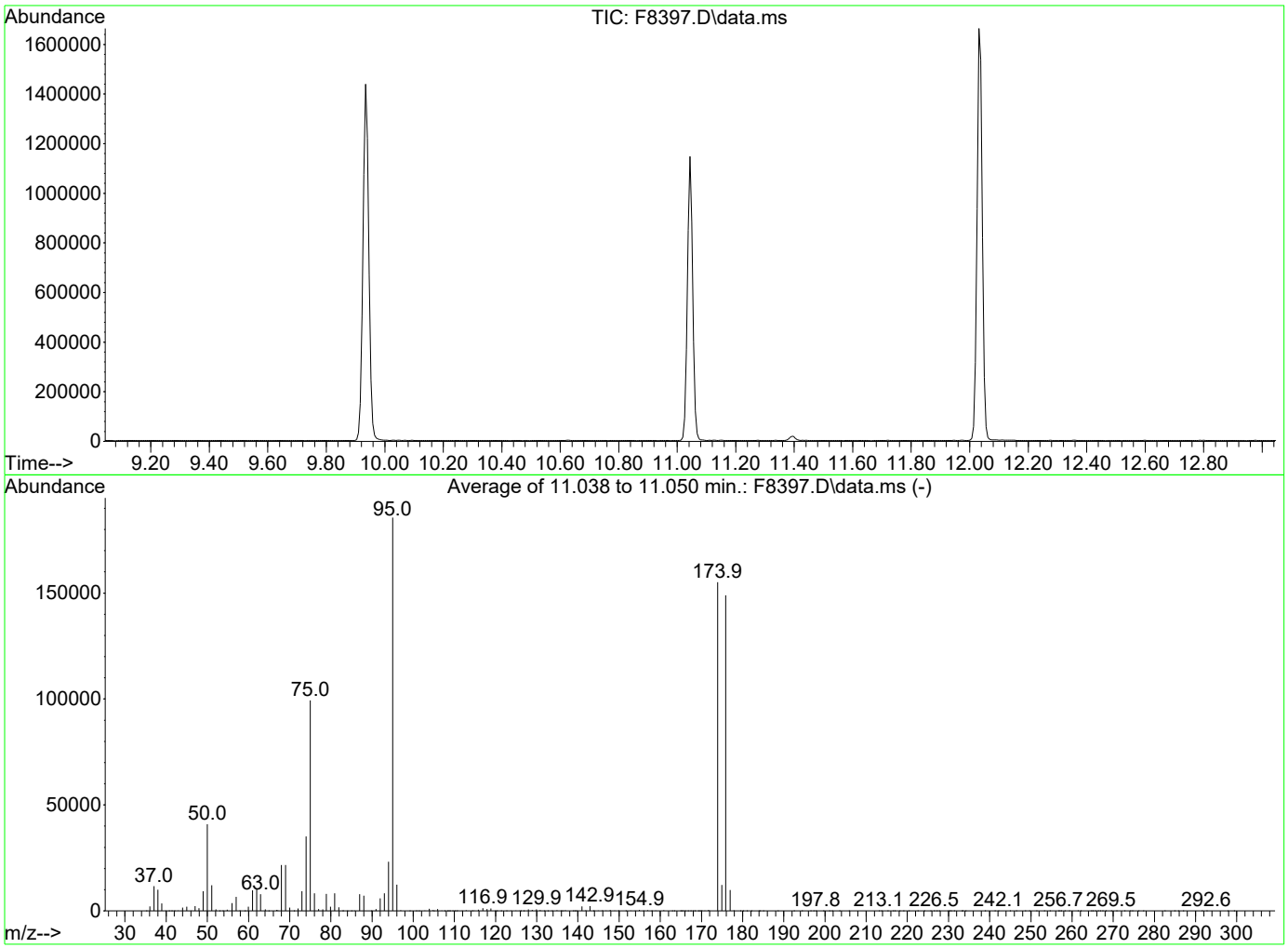
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.7	42936	PASS
75	95	30	80	54.4	102973	PASS
95	95	100	100	100.0	189291	PASS
96	95	5	9	7.0	13263	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	83.8	158683	PASS
175	174	5	9	8.4	13320	PASS
176	174	95	101	97.8	155123	PASS
177	176	5	9	6.9	10652	PASS

1st FJ 02/25/24
2nd AM 02/28/24

Data Path : I:\ACQUDATA\MSVOA14\Data\022524\
Data File : F8397.D
Acq On : 25 Feb 2024 01:16 pm
Operator : F.NAEGLER
Sample : TUNE
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Title : MS#14 - 8260 WATERS 5mL Purge
Last Update : Wed Feb 21 09:22:24 2024



AutoFind: Scans 1635, 1636, 1637; Background Corrected with Scan 1630

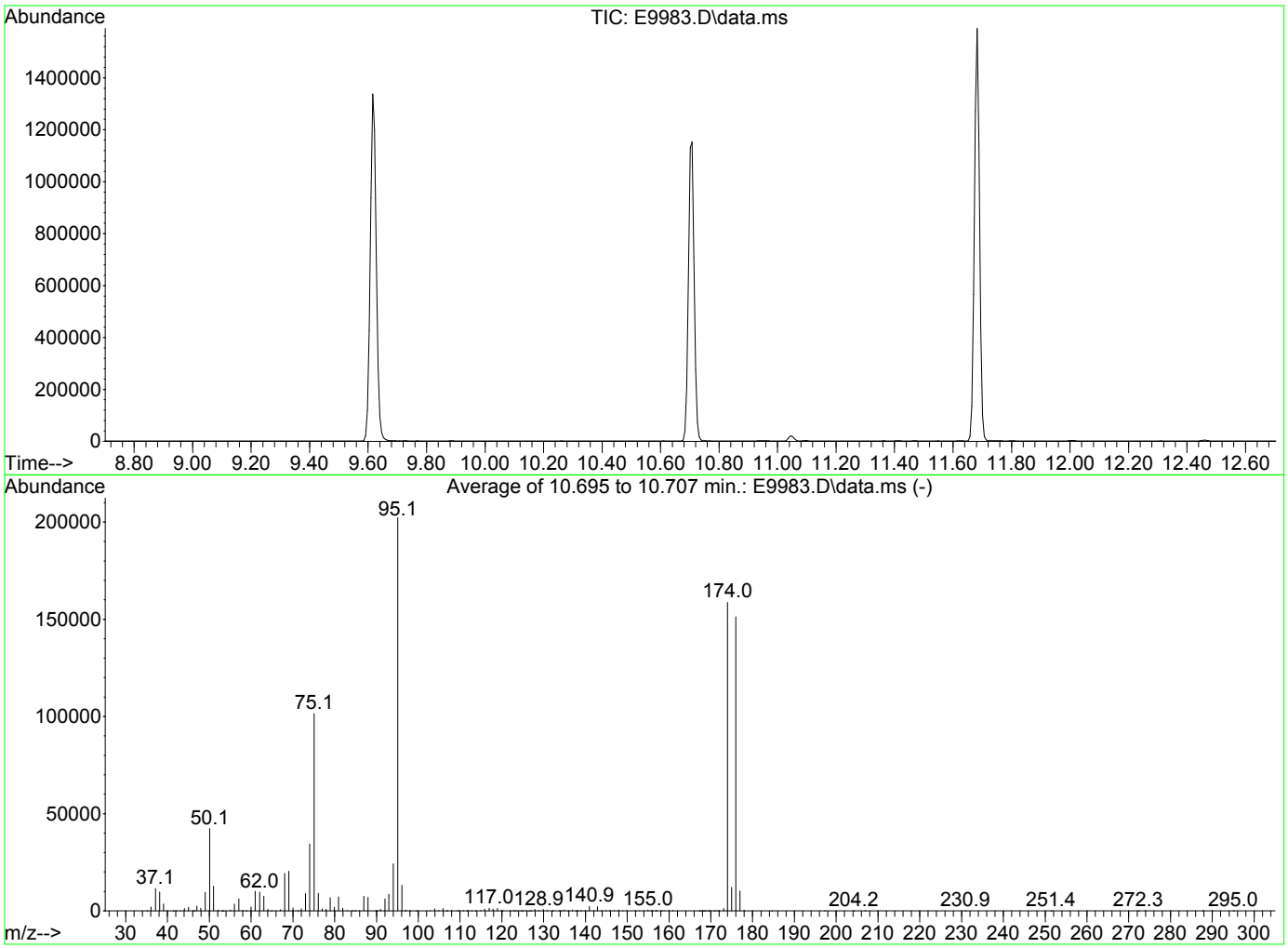
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.0	40904	PASS
75	95	30	80	53.5	99381	PASS
95	95	100	100	100.0	185621	PASS
96	95	5	9	6.7	12361	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	83.6	155125	PASS
175	174	5	9	7.9	12254	PASS
176	174	95	101	96.1	149013	PASS
177	176	5	9	6.6	9879	PASS

1st FJ 02/26/24
2nd AM 02/28/24

Data Path : I:\ACQUDATA\MSVOA17\Data\022624\
Data File : E9983.D
Acq On : 26 Feb 2024 09:23 am
Operator : F.NAEGLER
Sample : TUNE
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Title : MS#17 - 8260 WATERS 5mL Purge
Last Update : Fri Feb 16 09:34:06 2024



AutoFind: Scans 1658, 1659, 1660; Background Corrected with Scan 1653

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.9	42209	PASS
75	95	30	80	50.2	101541	PASS
95	95	100	100	100.0	202304	PASS
96	95	5	9	6.5	13235	PASS
173	174	0.00	2	0.8	1196	PASS
174	95	50	120	78.4	158675	PASS
175	174	5	9	7.7	12162	PASS
176	174	95	101	95.4	151333	PASS
177	176	5	9	6.8	10223	PASS

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8268.D
Acq On : 20 Feb 2024 09:23 pm
Operator : F.NAEGLER
Sample : 50 PPB ICV
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 21 09:56:50 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.356	168	393014	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.484	114	641156	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.934	117	624349	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	12.037	152	370826	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.222	113	203251	49.45	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 98.90%				
48) surr1,1,2-dichloroetha...	5.770	65	263912	48.92	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 97.84%				
65) SURR3,Toluene-d8	8.367	98	823319	49.25	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 98.50%				
70) SURR2,BFB	11.044	95	325704	51.29	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.58%				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.149	51	177611	54.393	ug/L		100
3) Dichlorodifluoromethane	1.119	85	132819m	32.310	ug/L		
4) Chloromethane	1.271	50	198816	47.528	ug/L		98
5) Vinyl Chloride	1.326	62	197018	41.303	ug/L		94
6) Bromomethane	1.546	94	245429m	49.038	ug/L		
7) Chloroethane	1.625	64	164709	38.312	ug/L		96
8) Freon 21	1.777	67	342104	43.149	ug/L		99
9) Trichlorofluoromethane	1.820	101	301738	48.068	ug/L		99
10) Diethyl Ether	2.052	59	185782	50.371	ug/L		96
11) Freon 123a	2.064	67	214835	49.446	ug/L		97
12) Freon 123	2.119	83	225890	49.839	ug/L		99
13) Acrolein	2.167	56	69287	79.999	ug/L		95
14) 1,1-Diclethene	2.241	96	128909	45.853	ug/L		97
15) Freon 113	2.241	101	125609	44.548	ug/L		98
16) Acetone	2.308	43	99546	42.701	ug/L		97
17) 2-Propanol	2.442	45	355880	949.588	ug/L		96
18) Iodomethane	2.381	142	167912	39.641	ug/L		96
19) Carbon Disulfide	2.430	76	364644	42.126	ug/L		99
20) Acetonitrile	2.576	41	261654m	262.838	ug/L		
21) Allyl Chloride	2.576	76	87353	50.778	ug/L	#	94
22) Methyl Acetate	2.606	43	187122	32.551	ug/L		99
23) Methylene Chloride	2.704	84	164952	46.996	ug/L		97
24) TBA	2.850	59	636750	976.169	ug/L		97
25) Acrylonitrile	2.978	53	503250	234.259	ug/L		98
26) Methyl-t-Butyl Ether	2.990	73	608349	49.480	ug/L		99
27) trans-1,2-Dichloroethene	2.984	96	164530	48.779	ug/L		95
28) 1,1-Diclethane	3.490	63	333323	52.118	ug/L		100
29) Vinyl Acetate	3.588	86	29109	55.136	ug/L	#	70
30) DIPE	3.594	45	605422	51.908	ug/L		98
31) 2-Chloro-1,3-Butadiene	3.600	53	293291	48.954	ug/L		100
32) ETBE	4.124	59	543233	49.232	ug/L		99
33) 2,2-Dichloropropane	4.319	77	239822	53.157	ug/L		94
34) cis-1,2-Dichloroethene	4.332	96	208786	52.160	ug/L		97
35) 2-Butanone	4.405	43	134533	42.440	ug/L		99
36) Propionitrile	4.521	54	229302	241.536	ug/L		99
37) Bromochloromethane	4.740	130	133763	50.554	ug/L		98
38) Methacrylonitrile	4.777	67	114579	49.340	ug/L		99
39) Tetrahydrofuran	4.832	42	106404	50.569	ug/L		96
40) Chloroform	4.917	83	345414	51.837	ug/L		95

1st FNJ 02/21/24
2nd 02/21/24

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8268.D
Acq On : 20 Feb 2024 09:23 pm
Operator : F.NAEGLER
Sample : 50 PPB ICV
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 21 09:56:50 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-Trichloroethane	5.197	97	294817	56.294	ug/L	99
42) TAME	6.069	73	602052	55.528	ug/L	99
44) Cyclohexane	5.252	41	179735	48.770	ug/L	97
46) Carbontetrachloride	5.466	117	220708	55.863	ug/L	98
47) 1,1-Dichloropropene	5.490	75	239541	51.310	ug/L	98
49) Benzene	5.825	78	755388	52.702	ug/L	99
50) 1,2-Dichloroethane	5.898	62	310188	49.375	ug/L	99
51) Iso-Butyl Alcohol	5.892	43	280755	1012.639	ug/L	100
52) n-Heptane	6.301	43	213465	49.548	ug/L	98
53) 1-Butanol	6.892	56	432892	2617.446	ug/L	97
54) Trichloroethene	6.813	130	202444	52.686	ug/L	96
55) Methylcyclohexane	7.032	55	222337	49.093	ug/L	96
56) 1,2-Diclpropane	7.118	63	202212	51.309	ug/L	99
57) Dibromomethane	7.270	93	147613	50.342	ug/L	97
58) 1,4-Dioxane	7.343	88	89504	941.617	ug/L	99
59) Methyl Methacrylate	7.355	69	189191	53.076	ug/L	98
60) Bromodichloromethane	7.508	83	272202	54.131	ug/L	99
61) 2-Nitropropane	7.831	41	132300	99.663	ug/L	92
62) 2-Chloroethylvinyl Ether	7.935	63	125617	47.333	ug/L	97
63) cis-1,3-Dichloropropene	8.075	75	334902	55.771	ug/L	99
64) 4-Methyl-2-pentanone	8.300	43	308664	48.036	ug/L	97
66) Toluene	8.447	91	888465	54.122	ug/L	99
67) trans-1,3-Dichloropropene	8.751	75	311123	57.735	ug/L	99
68) Ethyl Methacrylate	8.892	69	331666	55.356	ug/L	95
69) 1,1,2-Trichloroethane	8.947	97	208866	52.073	ug/L	100
72) Tetrachloroethene	9.056	164	161893	54.487	ug/L	98
73) 2-Hexanone	9.257	43	227836	47.050	ug/L	99
74) 1,3-Dichloropropane	9.123	76	357447	50.202	ug/L	98
75) Dibromochloromethane	9.361	129	220145	53.627	ug/L	98
76) N-Butyl Acetate	9.410	43	431417	49.141	ug/L	99
77) 1,2-Dibromoethane	9.459	107	222000	52.049	ug/L	100
78) 3-Chlorobenzotrifluoride	9.983	180	285469	50.058	ug/L	99
79) Chlorobenzene	9.965	112	585110	51.393	ug/L	98
80) 4-Chlorobenzotrifluoride	10.044	180	245269	50.263	ug/L	98
81) 1,1,1,2-Tetrachloroethane	10.056	131	189622	53.997	ug/L	98
82) Ethylbenzene	10.087	106	302912	53.289	ug/L	95
83) (m+p)Xylene	10.202	106	791924	110.953	ug/L	96
84) o-Xylene	10.568	106	392530	54.314	ug/L	99
85) Styrene	10.586	104	697445	57.577	ug/L	99
86) Bromoform	10.751	173	163984	58.091	ug/L	98
87) 2-Chlorobenzotrifluoride	10.830	180	297948	52.911	ug/L	99
88) Isopropylbenzene	10.910	105	979315	54.188	ug/L	99
89) Cyclohexanone	11.001	55	1552255	1071.439	ug/L	97
90) trans-1,4-Dichloro-2-B...	11.245	53	91027	46.533	ug/L	99
92) 1,1,2,2-Tetrachloroethane	11.196	83	330925	48.003	ug/L	98
93) Bromobenzene	11.166	156	280701	52.439	ug/L	99
94) 1,2,3-Trichloropropane	11.227	110	114148	49.190	ug/L	96
95) n-Propylbenzene	11.275	91	1213944	51.220	ug/L	99
96) 2-Chlorotoluene	11.342	91	709895	49.745	ug/L	100
97) 3-Chlorotoluene	11.397	91	729688	50.160	ug/L	99
98) 4-Chlorotoluene	11.440	91	855807	51.977	ug/L	99
99) 1,3,5-Trimethylbenzene	11.434	105	878374	51.951	ug/L	98
100) tert-Butylbenzene	11.708	119	751209	53.251	ug/L	99
101) 1,2,4-Trimethylbenzene	11.751	105	869420	51.181	ug/L	95
102) 3,4-Dichlorobenzotrifl...	11.818	214	249106	51.794	ug/L	97
103) sec-Butylbenzene	11.891	105	1071246	52.502	ug/L	97

1st FJ 02/21/24
2nd 02/21/24

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8268.D
Acq On : 20 Feb 2024 09:23 pm
Operator : F.NAEGLER
Sample : 50 PPB ICV
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 21 09:56:50 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

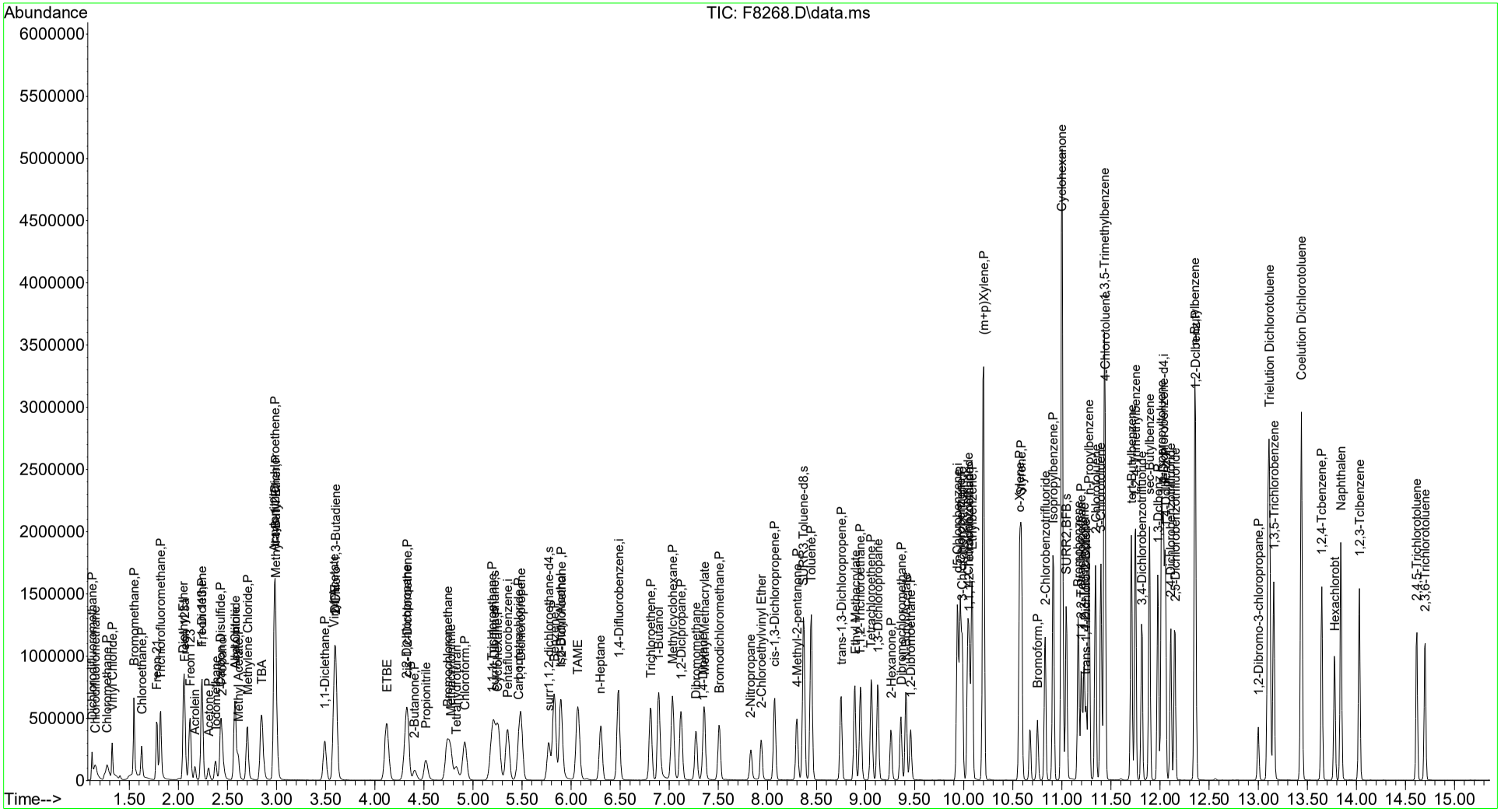
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) p-Isopropyltoluene	12.013	119	942376	54.905	ug/L	99
105) 1,3-Dclbenz	11.976	146	517734	53.384	ug/L	99
106) 1,4-Dclbenz	12.056	146	537131	50.603	ug/L	99
107) 2,4-Dichlorobenzotrifl...	12.111	214	226361	51.587	ug/L	97
108) 2,5-Dichlorobenzotrifl...	12.153	214	252206	51.382	ug/L	96
109) n-Butylbenzene	12.354	91	827203	54.266	ug/L	99
110) 1,2-Dclbenz	12.361	146	512738	51.024	ug/L	99
111) 1,2-Dibromo-3-chloropr...	13.001	157	82765	53.803	ug/L	95
112) Trielution Dichlorotol...	13.110	125	1245433	152.225	ug/L	99
113) 1,3,5-Trichlorobenzene	13.159	180	359162	50.305	ug/L	96
114) Coelution Dichlorotoluene	13.440	125	922260	102.546	ug/L	98
115) 1,2,4-Tcbenzene	13.647	180	343611	51.145	ug/L	100
116) Hexachlorobt	13.781	225	139136	51.869	ug/L	96
117) Naphthalen	13.842	128	1094938	50.082	ug/L	100
118) 1,2,3-Tclbenzene	14.031	180	347155	51.835	ug/L	97
119) 2,4,5-Trichlorotoluene	14.616	159	237420	51.928	ug/L	100
120) 2,3,6-Trichlorotoluene	14.702	159	207821	48.283	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8268.D
Acq On : 20 Feb 2024 09:23 pm
Operator : F.NAEGLER
Sample : 50 PPB ICV
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 21 09:56:50 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



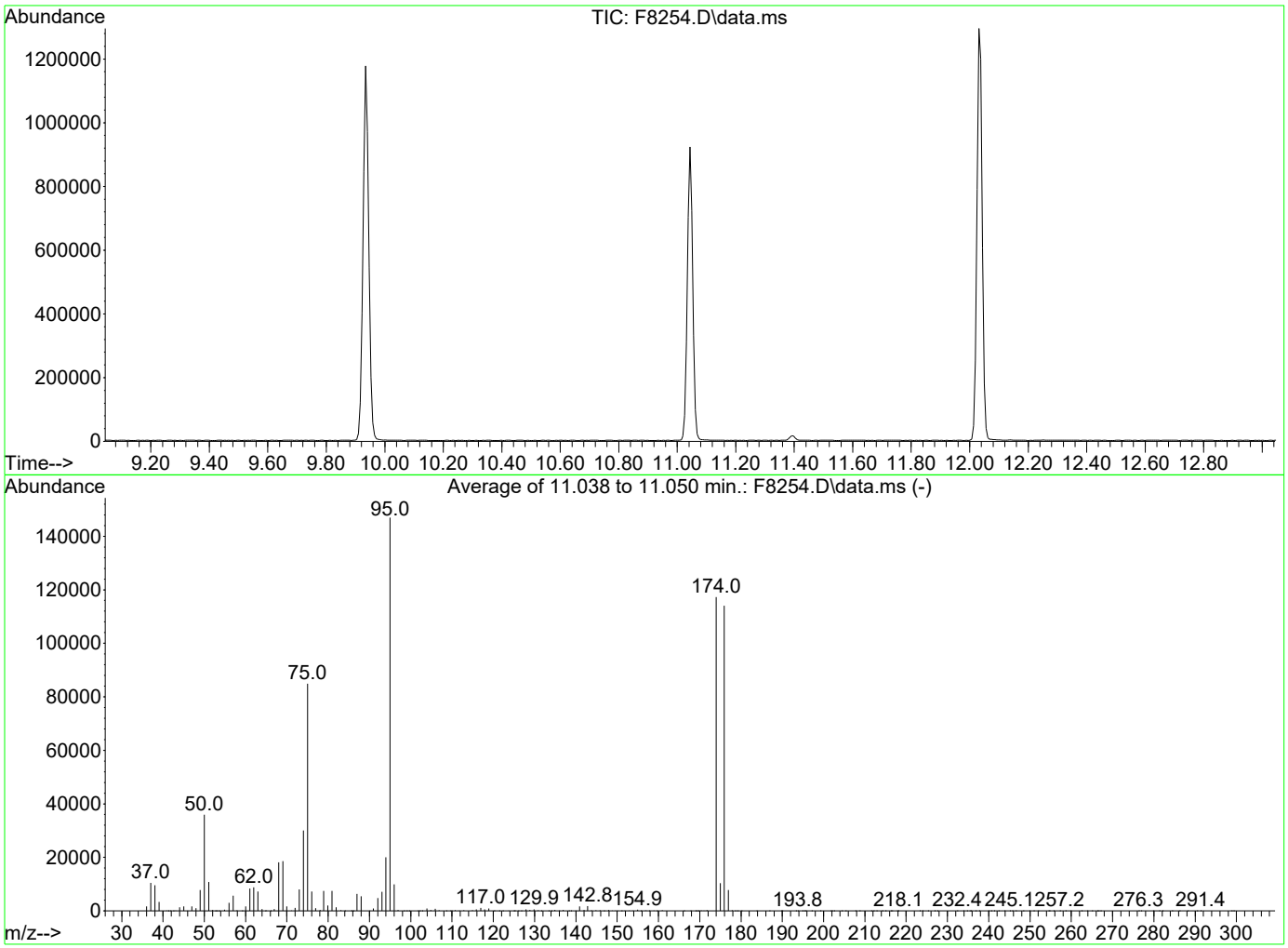
1st FJ 02/21/24
2nd 02/21/24

1st FN 02/21/24
2nd 02/21/24

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8254.D
Acq On : 20 Feb 2024 03:57 pm
Operator : F.NAEGLER
Sample : TUNE
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Title : MS#14 - 8260 WATERS 5mL Purge
Last Update : Tue Nov 21 14:41:41 2023



AutoFind: Scans 1635, 1636, 1637; Background Corrected with Scan 1629

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.5	35972	PASS
75	95	30	80	57.8	84904	PASS
95	95	100	100	100.0	146979	PASS
96	95	5	9	6.7	9874	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	79.8	117248	PASS
175	174	5	9	8.8	10303	PASS
176	174	95	101	97.3	114040	PASS
177	176	5	9	6.8	7789	PASS

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8255.D
Acq On : 20 Feb 2024 04:33 pm
Operator : F.NAEGLER
Sample : ICAL BLK
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 21 09:54:47 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

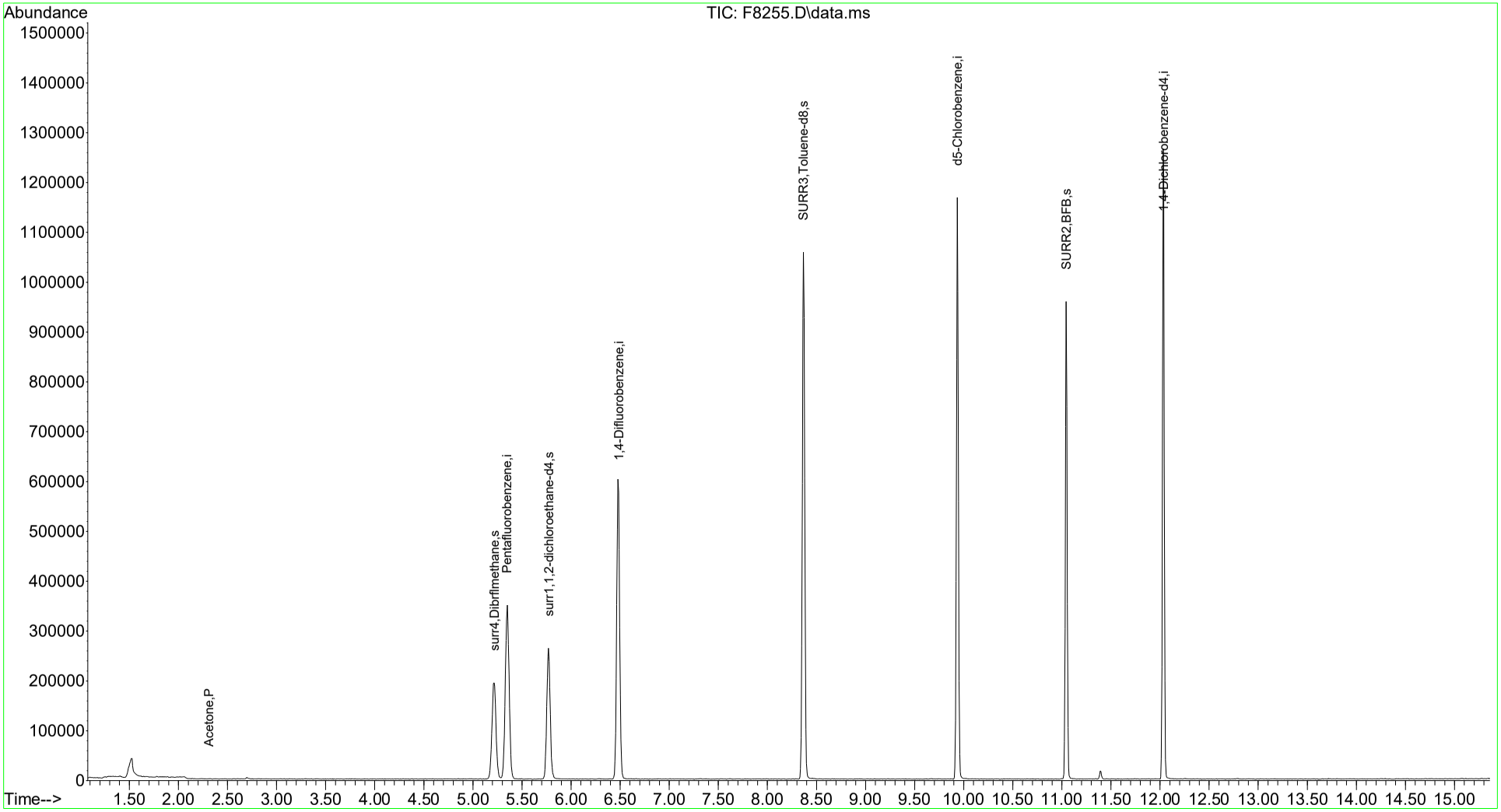
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.350	168	315909	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.484	114	511793	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.934	117	478785	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	12.038	152	232646	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.216	113	163161	49.73	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 99.46%			
48) surr1,1,2-dichloroetha...	5.771	65	228680	53.11	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 106.22%			
65) SURR3,Toluene-d8	8.368	98	658068	49.31	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 98.62%			
70) SURR2,BFB	11.044	95	224516	44.29	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 88.58%			
Target Compounds						Qvalue
4) Chloromethane	1.271	50	289	Below Cal		95
16) Acetone	2.308	43	653	0.348	ug/L	77

(#) = qualifier out of range (m) = manual integration (+) = signals summed

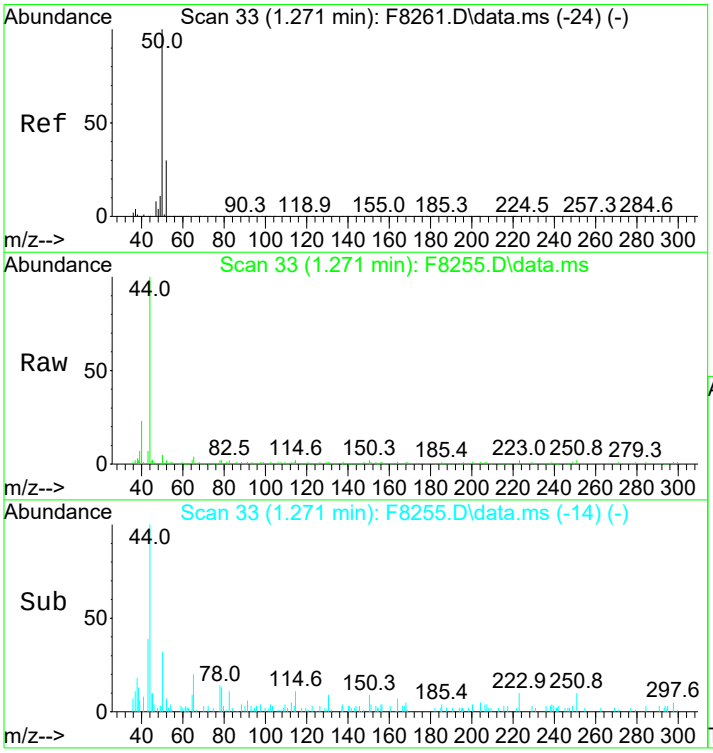
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8255.D
Acq On : 20 Feb 2024 04:33 pm
Operator : F.NAEGLER
Sample : ICAL BLK
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 21 09:54:47 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration



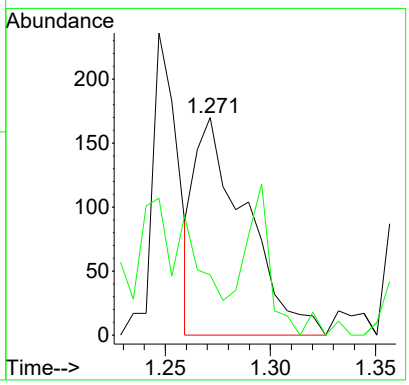
1st FJ 02/21/24
2nd 02/21/24

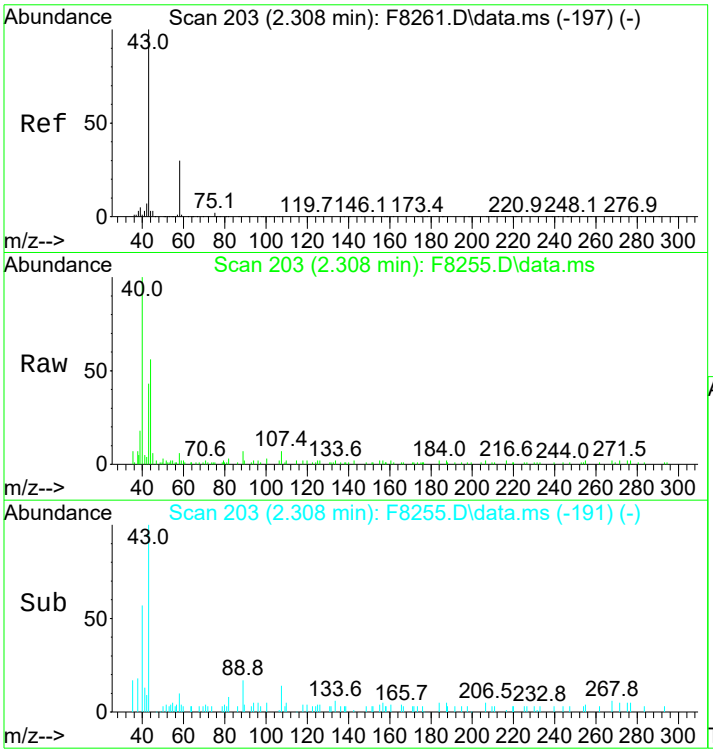


#4
Chloromethane
Concen: Below Cal
RT: 1.271 min Scan# 33
Delta R.T. 0.000 min
Lab File: F8255.D
Acq: 20 Feb 2024 04:33 pm

Tgt Ion: 50 Resp: 289

Ion	Ratio	Lower	Upper
50	100		
52	27.6	10.3	50.3

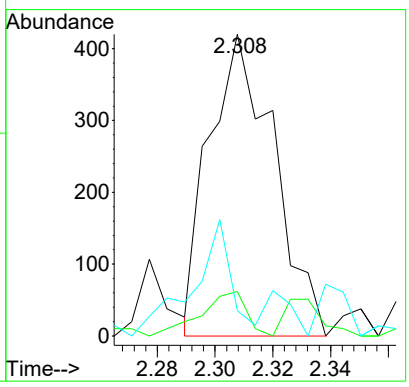




#16
Acetone
Concen: 0.35 ug/L
RT: 2.308 min Scan# 203
Delta R.T. 0.000 min
Lab File: F8255.D
Acq: 20 Feb 2024 04:33 pm

Tgt Ion: 43 Resp: 653

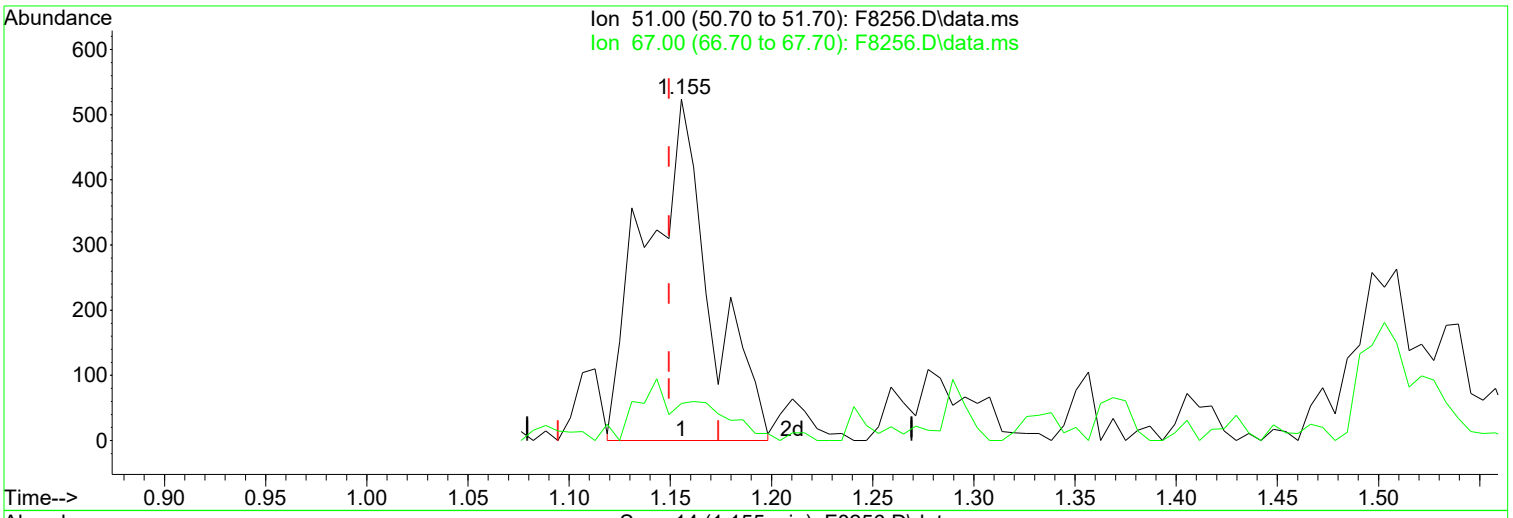
Ion	Ratio	Lower	Upper
43	100		
58	14.8	10.0	50.0
42	8.3	0.0	27.2



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration



TIC: F8256.D\data.ms

(2) Chlorodifluoromethane

1.155min (+ 0.006) 0.43 ug/L m

response 1154

Ion	Exp%	Act%
51.00	100.00	100.00
67.00	21.00	10.88
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

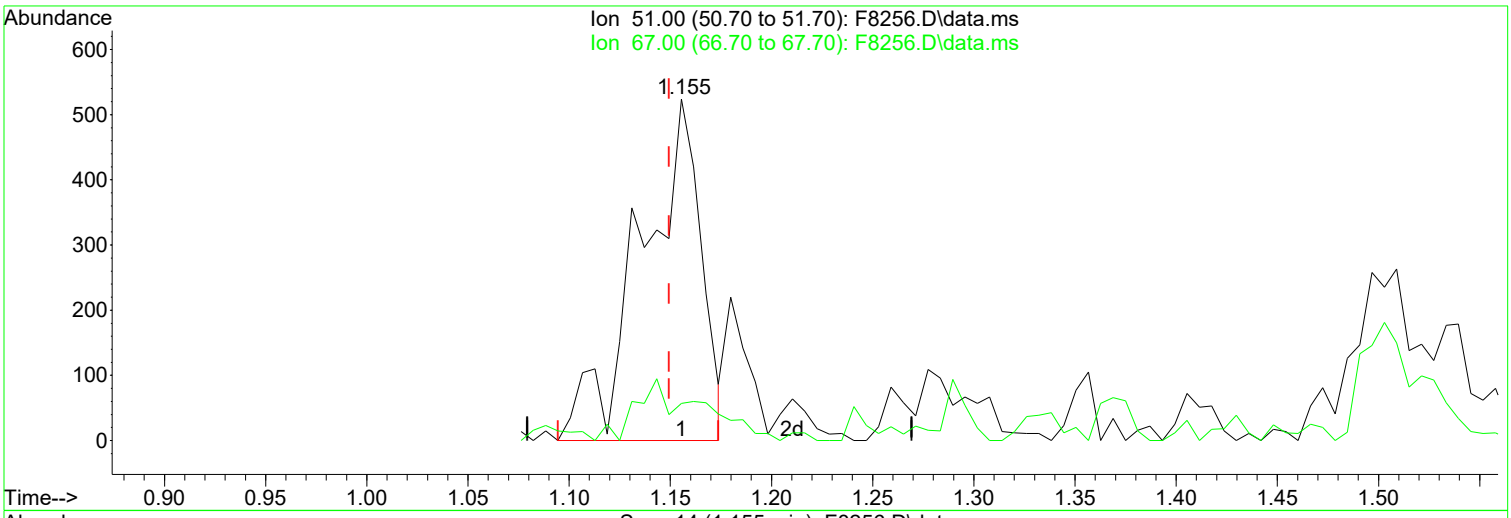
Poor integration.

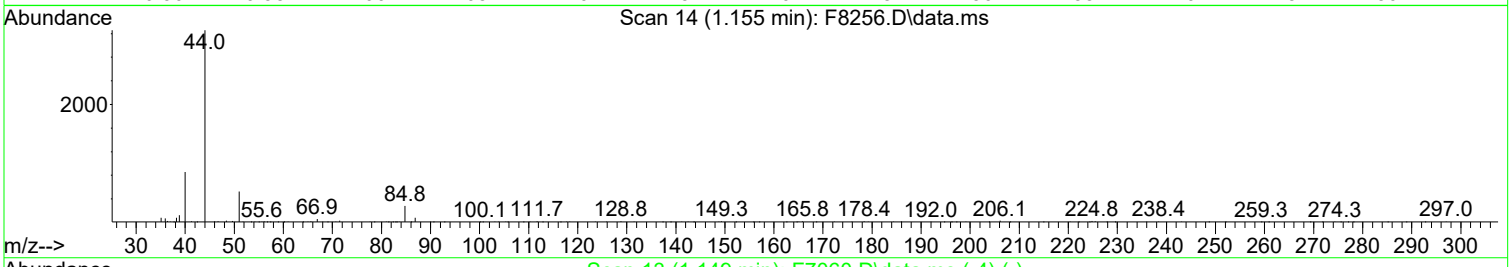
02/21/24

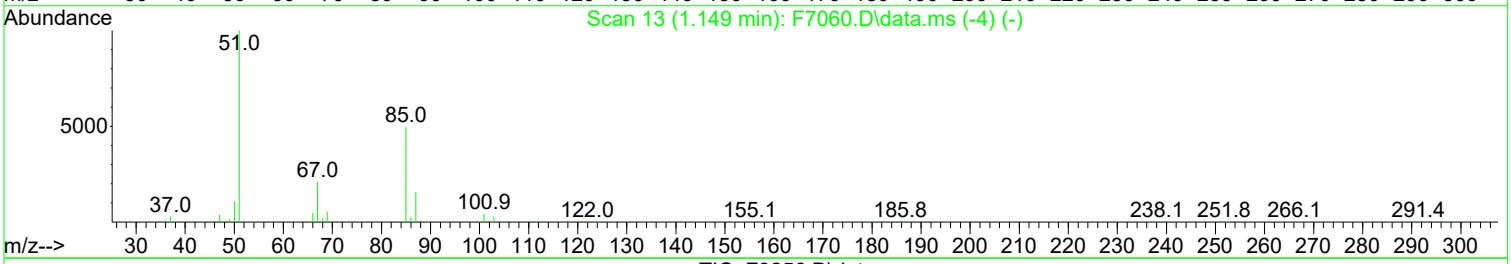
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8256.D\data.ms

(2) Chlorodifluoromethane

1.155min (+ 0.006) 0.40 ug/L

response 1080

Ion	Exp%	Act%
51.00	100.00	100.00
67.00	21.00	10.88
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

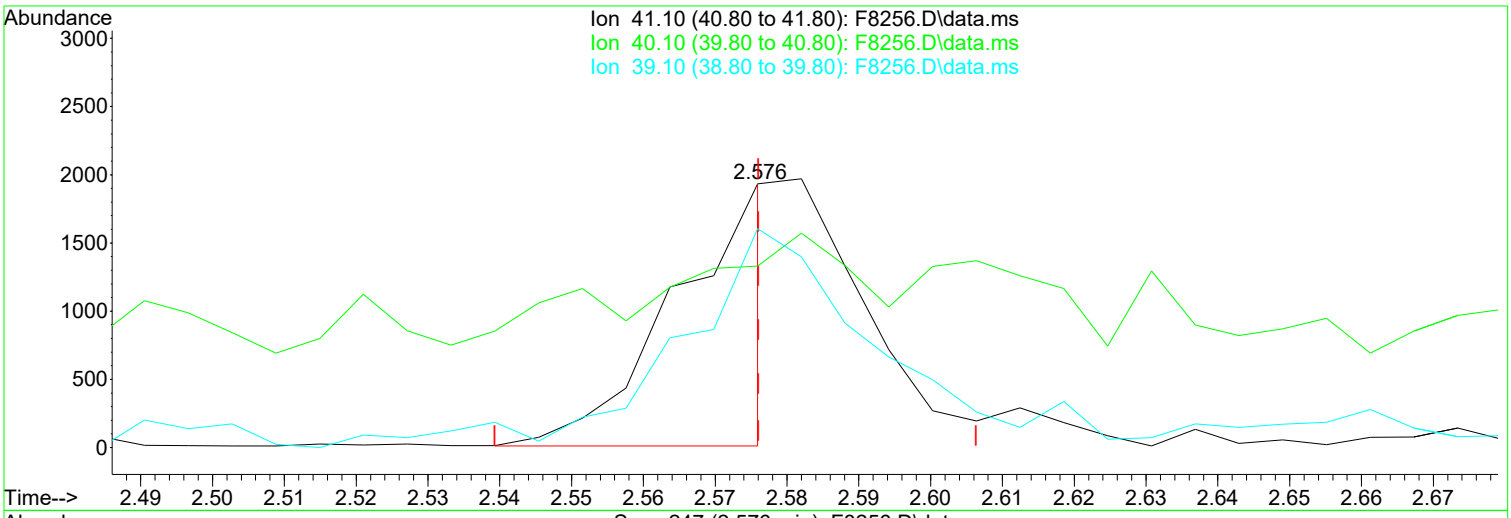
Before

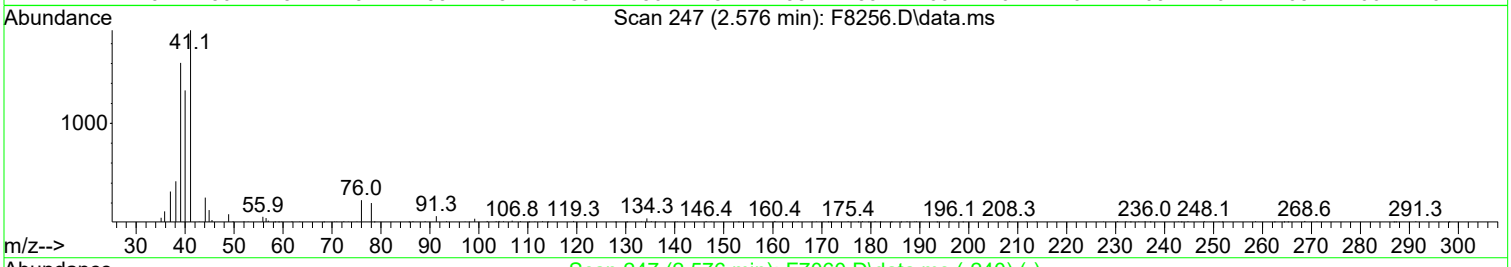
02/21/24

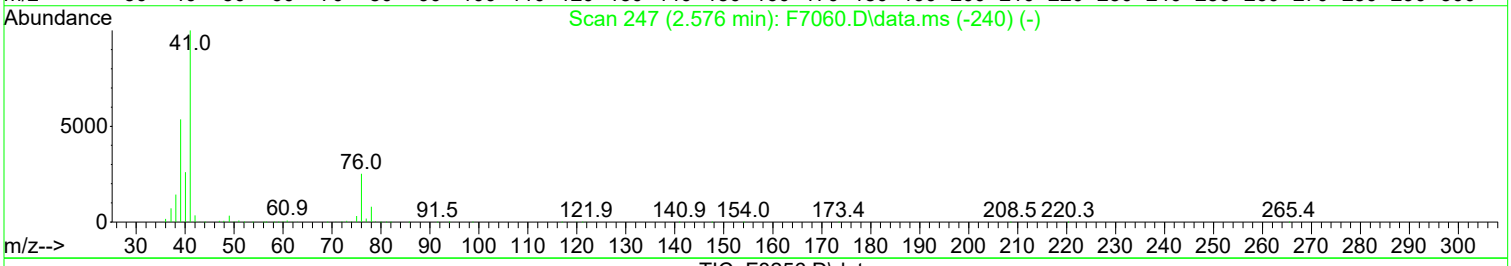
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8256.D\data.ms

(20) Acetonitrile

2.576min (-0.000) 3.05 ug/L m

response 1842

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	26.20	68.82#
39.10	53.50	83.04#
0.00	0.00	0.00

Manual Integration:

After

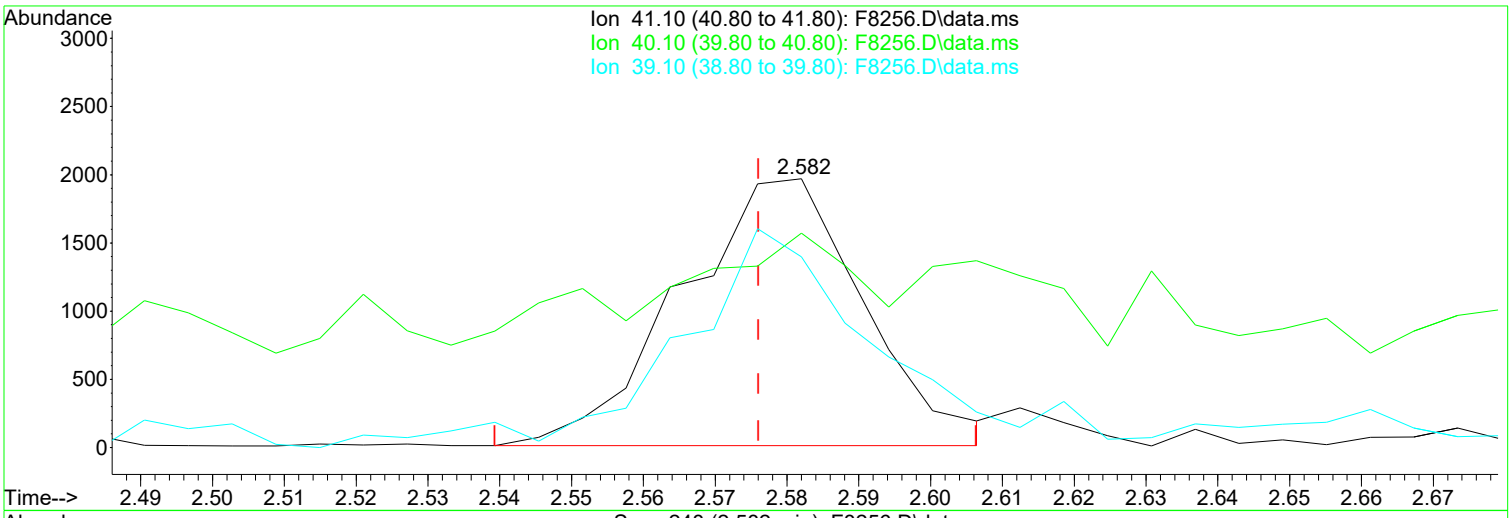
Poor integration.

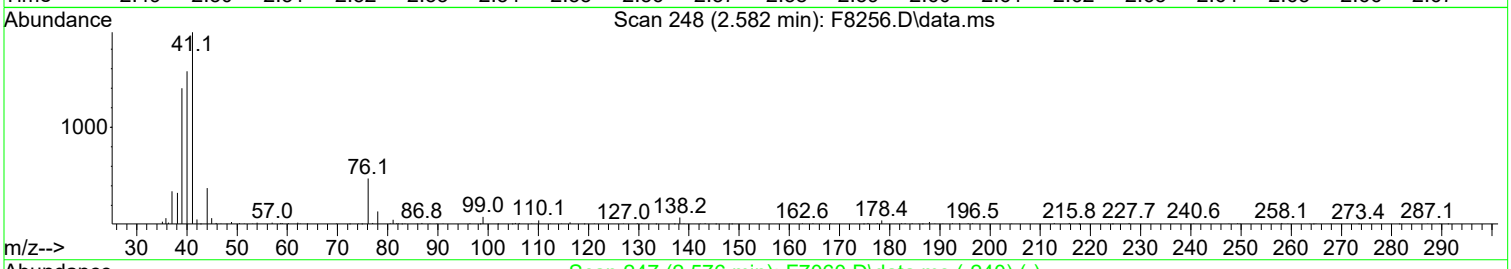
02/21/24

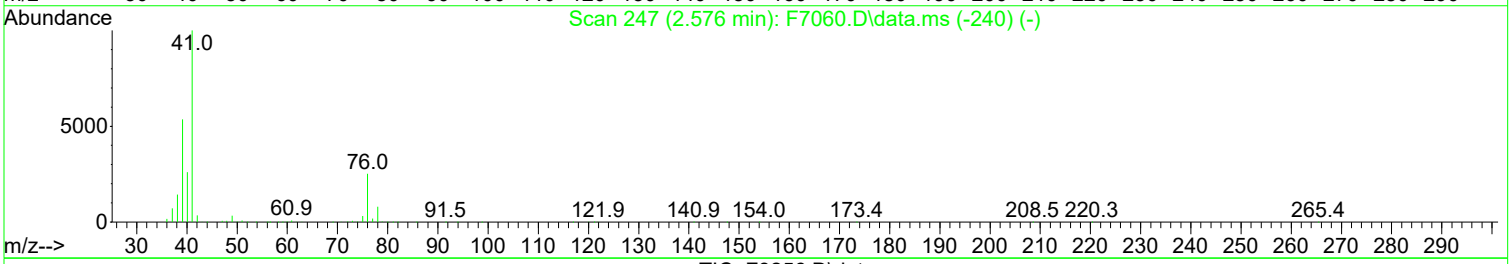
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8256.D\data.ms

(20) Acetonitrile

2.582min (+ 0.006) 5.71 ug/L

response 3450

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	26.20	79.67#
39.10	53.50	70.94
0.00	0.00	0.00

Manual Integration:

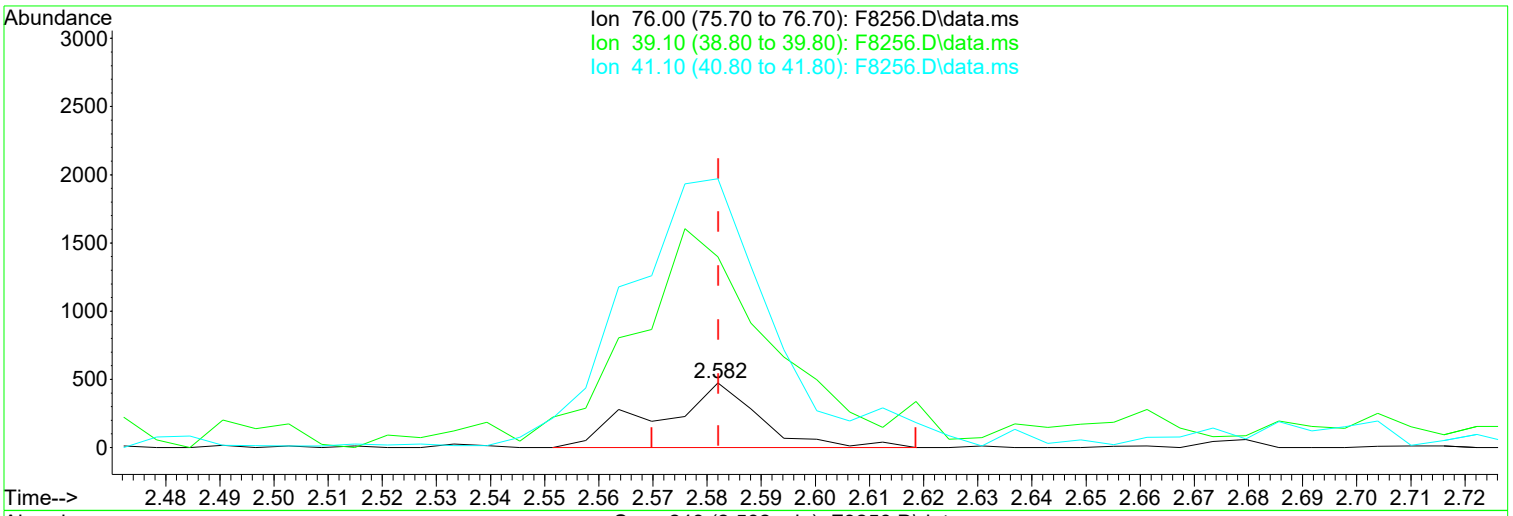
Before

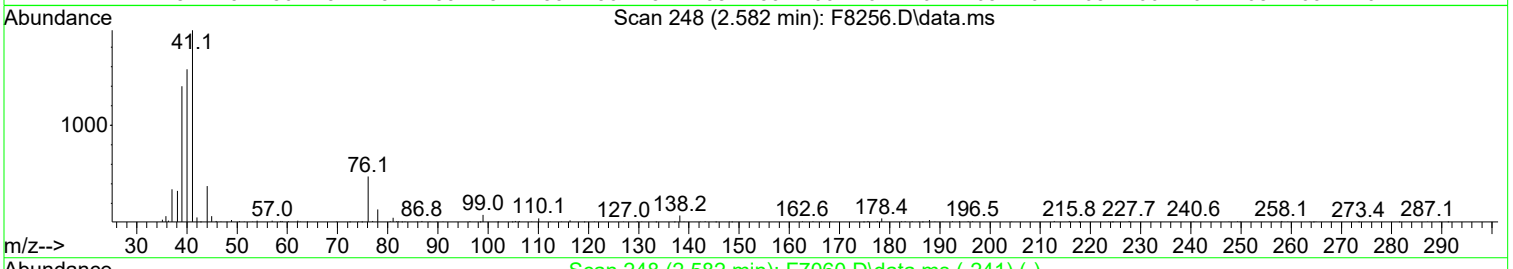
02/21/24

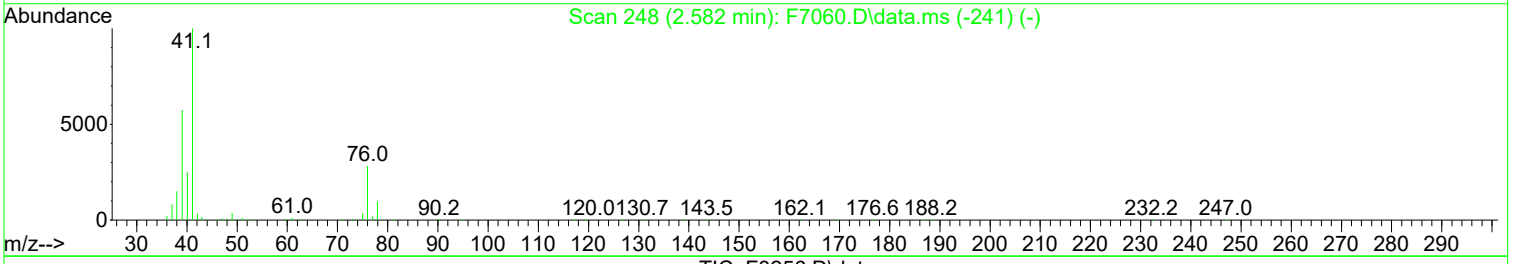
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8256.D\data.ms

(21) Allyl Chloride

2.582min (-0.000) 0.47 ug/L m

response 619

Ion	Exp%	Act%
76.00	100.00	100.00
39.10	203.50	295.15#
41.10	354.60	416.03#
0.00	0.00	0.00

Manual Integration:

After

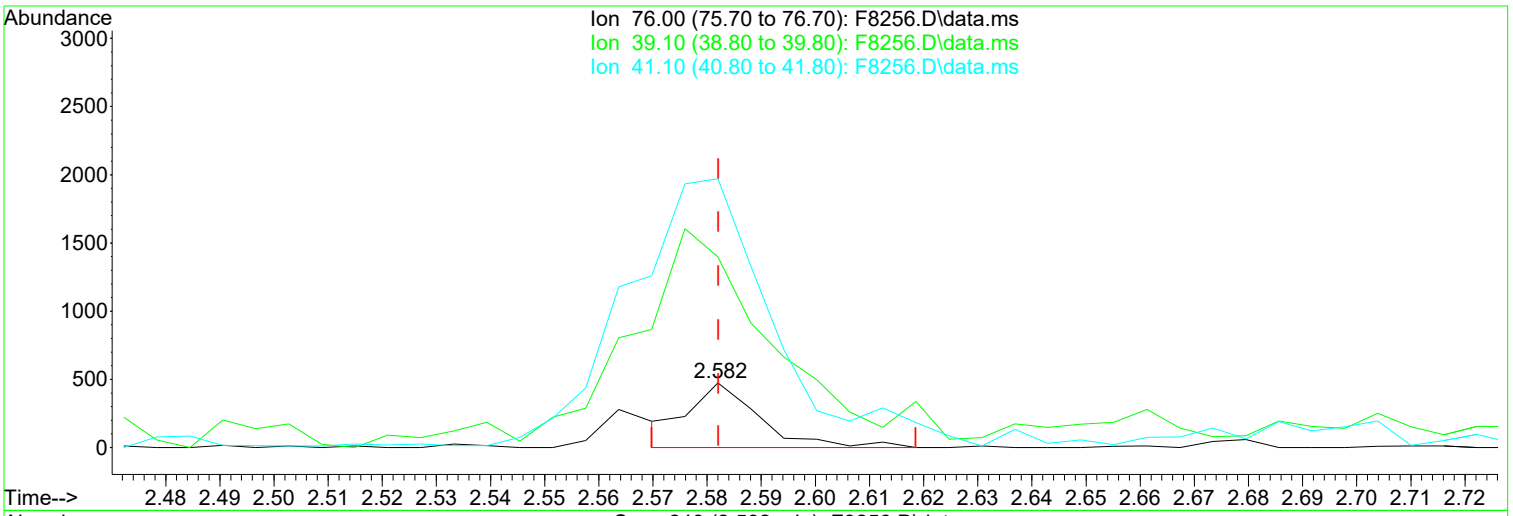
Poor integration.

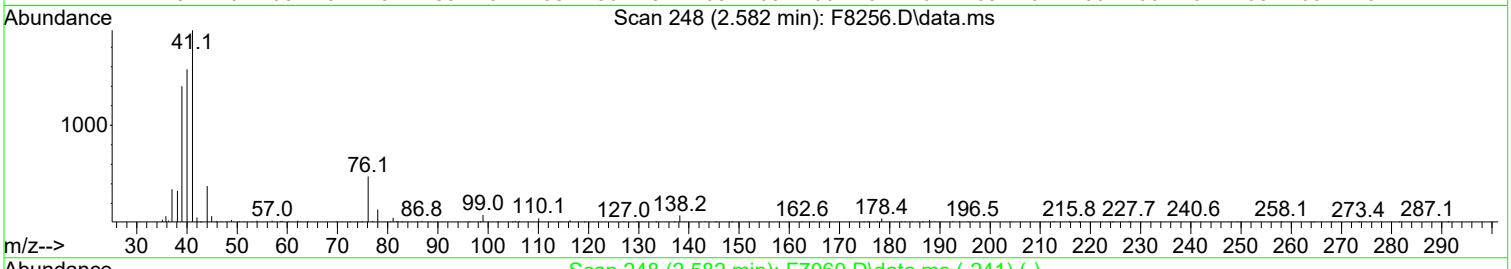
02/21/24

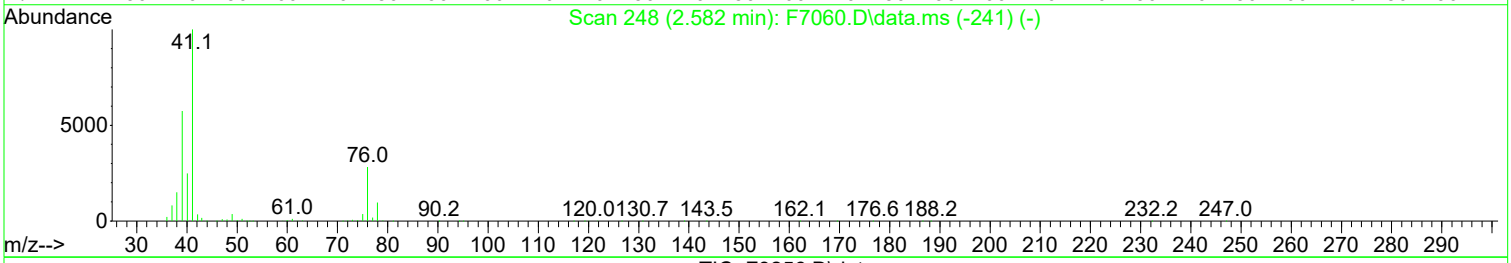
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8256.D\data.ms

(21) Allyl Chloride

2.582min (-0.000) 0.33 ug/L

response 428

Ion	Exp%	Act%
76.00	100.00	100.00
39.10	203.50	295.15#
41.10	354.60	416.03#
0.00	0.00	0.00

Manual Integration:

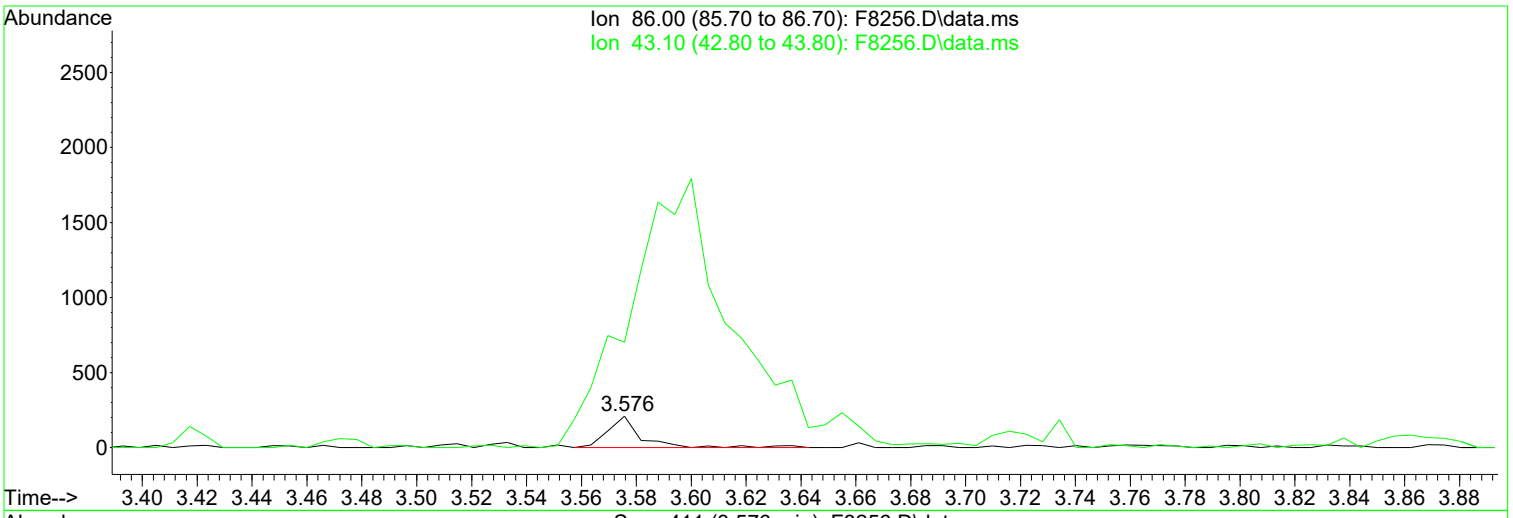
Before

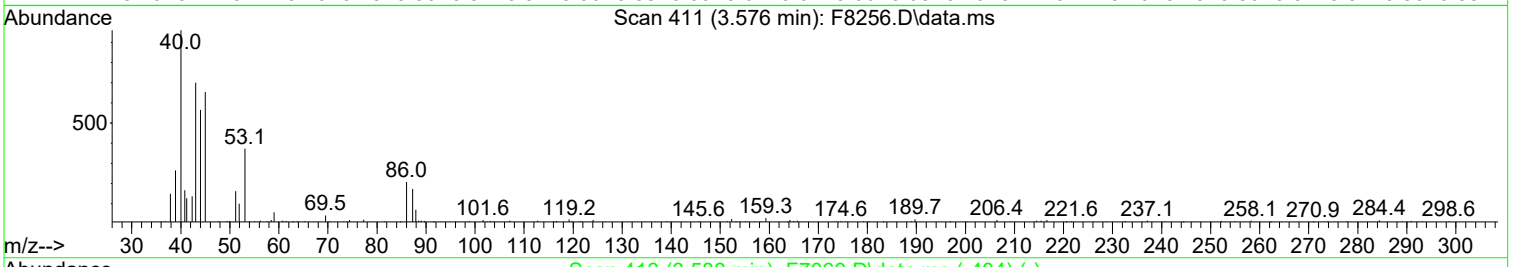
02/21/24

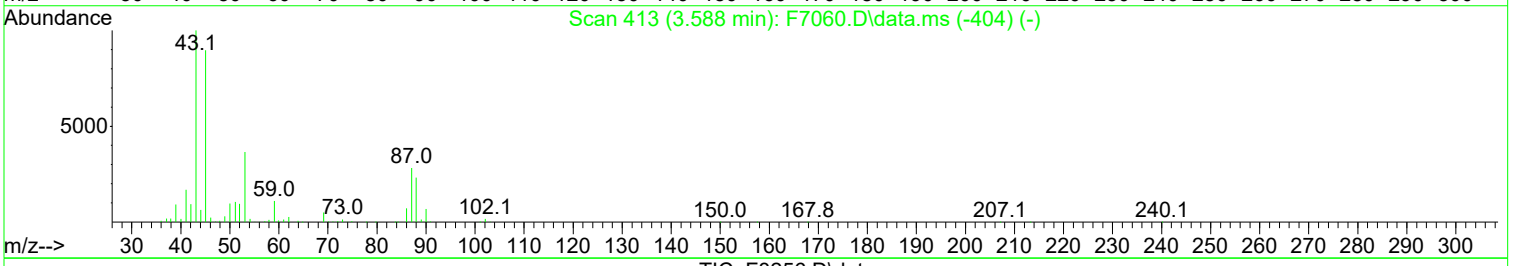
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8256.D\data.ms

(29) Vinyl Acetate

3.576min (-0.012) 0.45 ug/L m

response 180

Ion	Exp%	Act%
86.00	100.00	100.00
43.10	1391.80	335.41#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

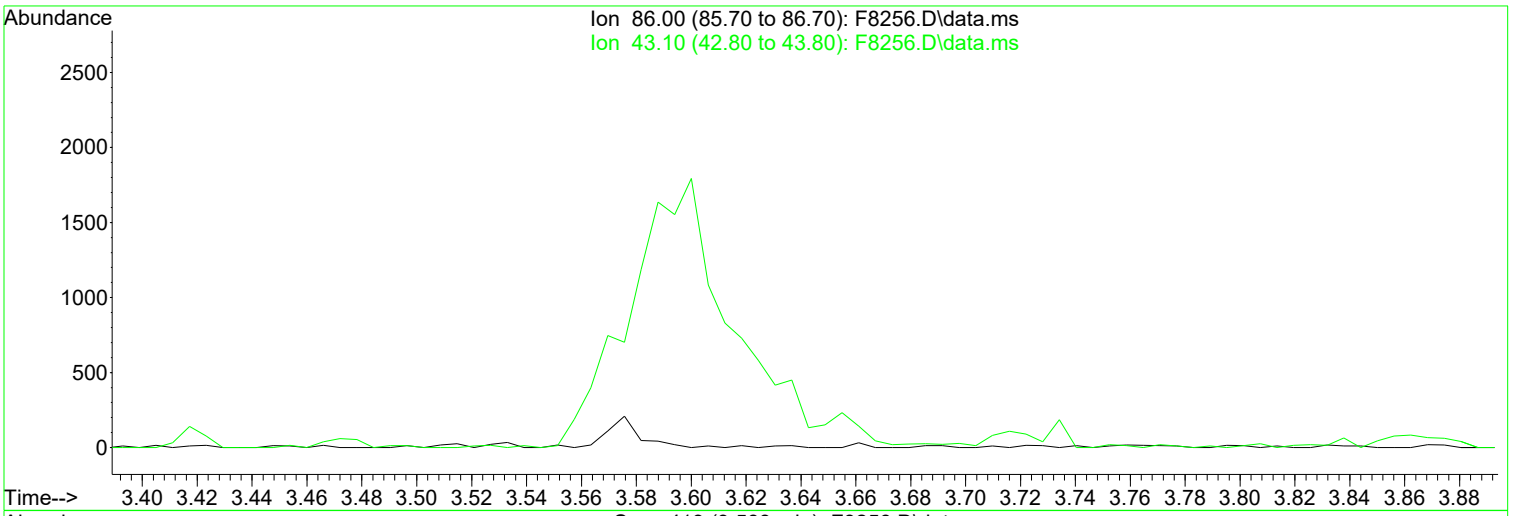
Peak not found.

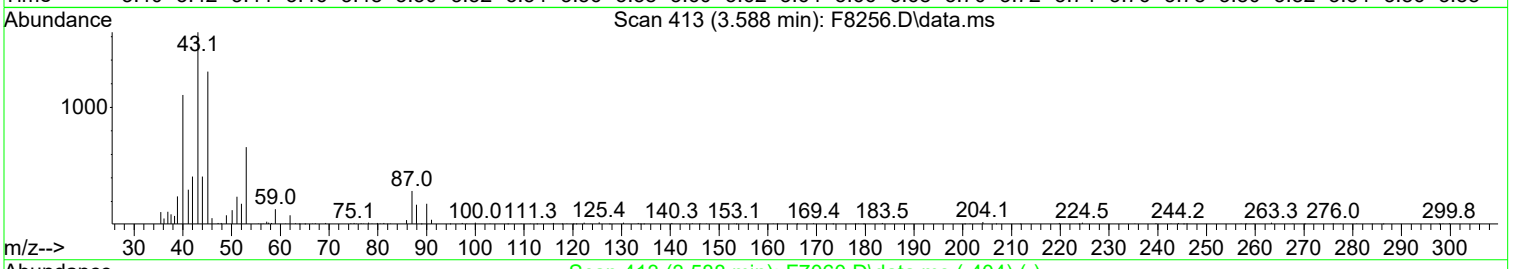
02/21/24

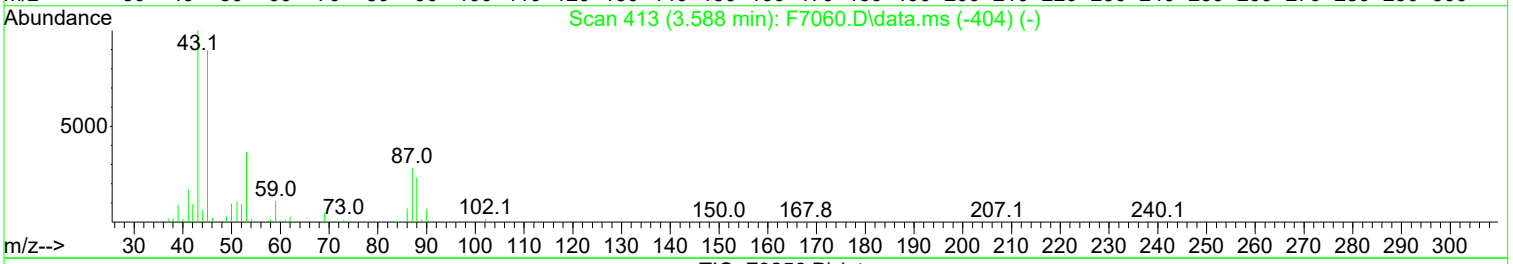
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8256.D\data.ms

(29) Vinyl Acetate

3.588min (-3.588) 0.00 ug/L

response 0

Ion	Exp%	Act%
86.00	100.00	0.00
43.10	1391.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

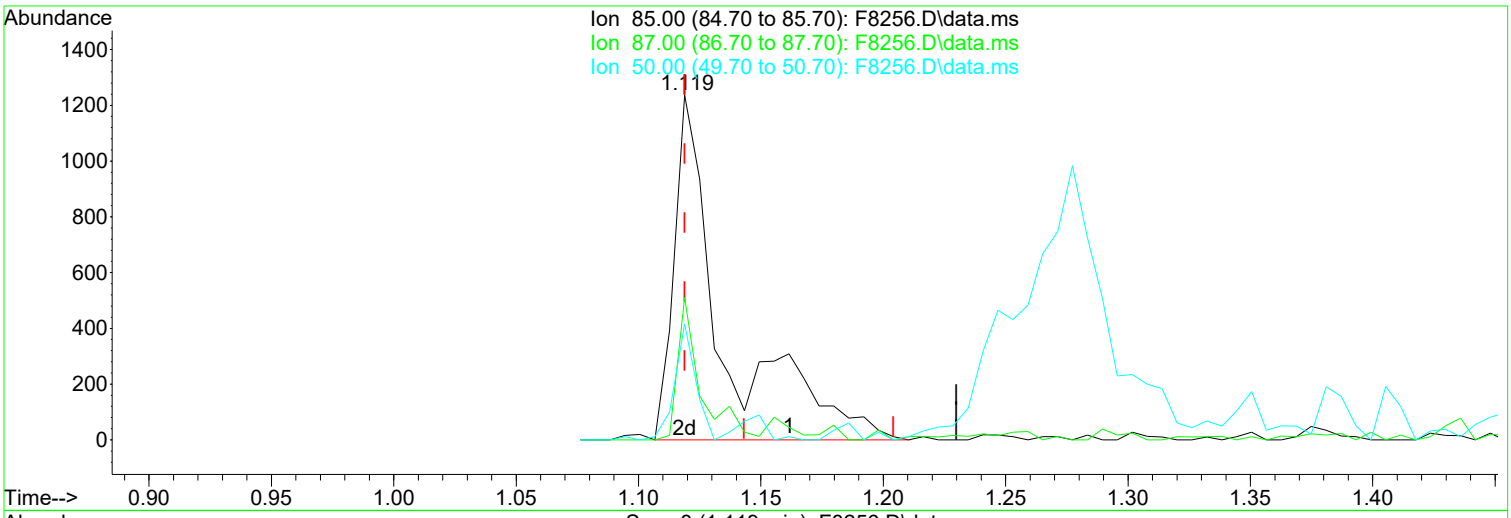
Before

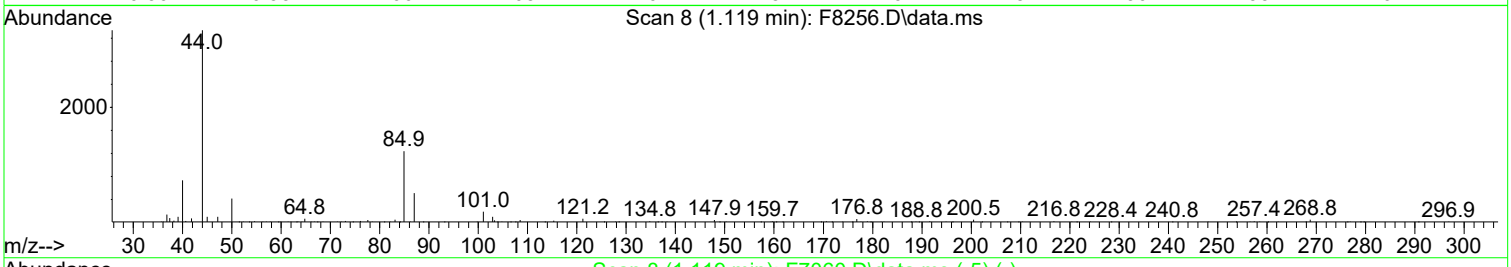
02/21/24

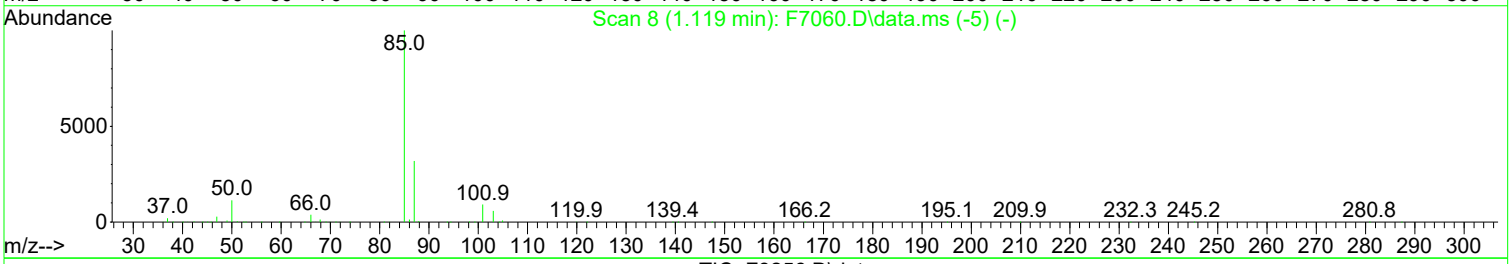
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8256.D\data.ms

(3) Dichlorodifluoromethane (P)

1.119min (-0.000) 0.50 ug/L m

response 1746

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.80	41.31
50.00	11.40	33.63#
0.00	0.00	0.00

Manual Integration:

After

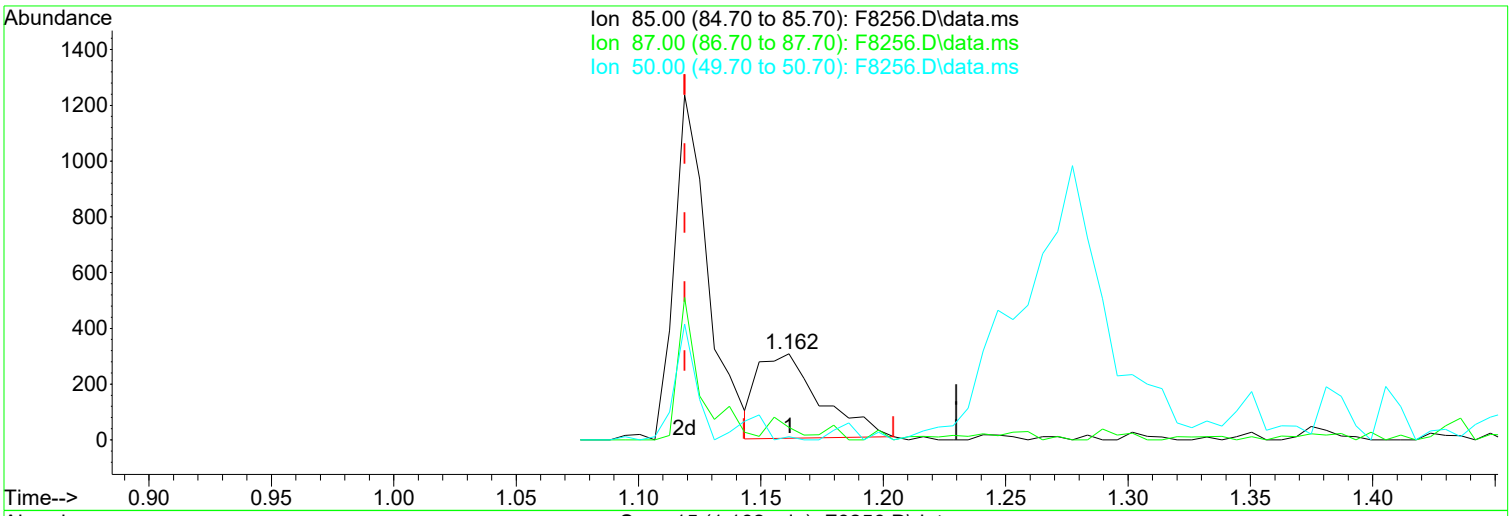
Poor integration.

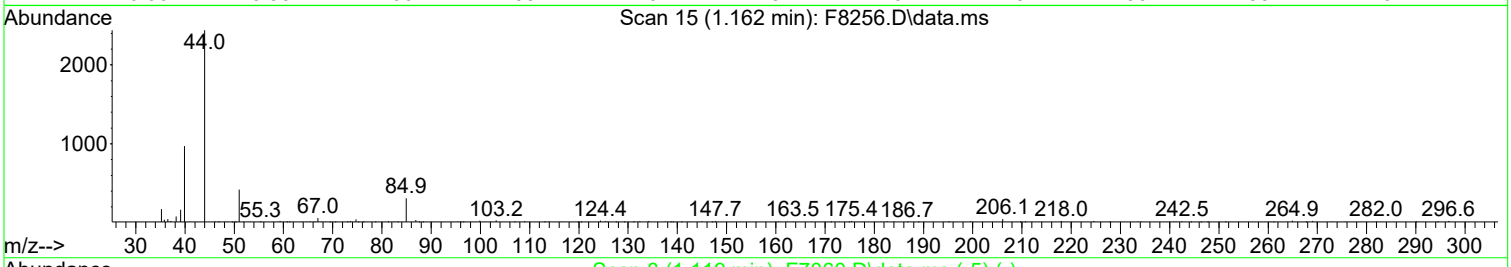
02/21/24

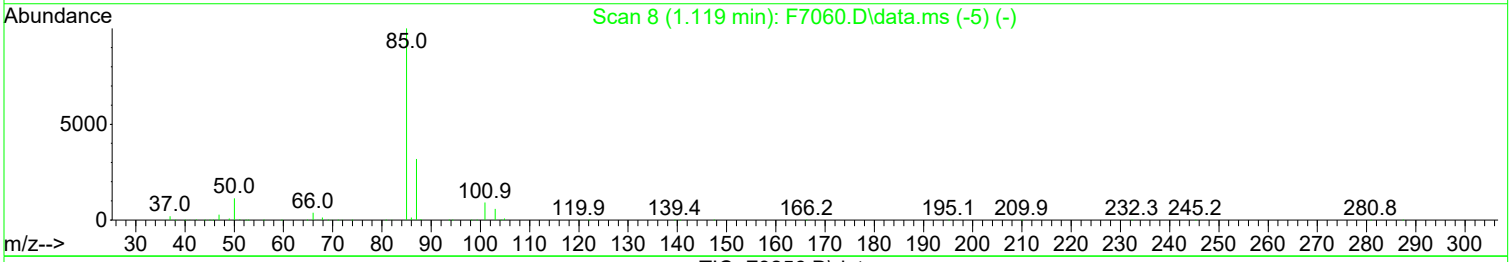
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8256.D\data.ms

(3) Dichlorodifluoromethane (P)

1.162min (+ 0.043) 0.15 ug/L

response 537

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.80	14.56
50.00	11.40	3.56
0.00	0.00	0.00

Manual Integration:

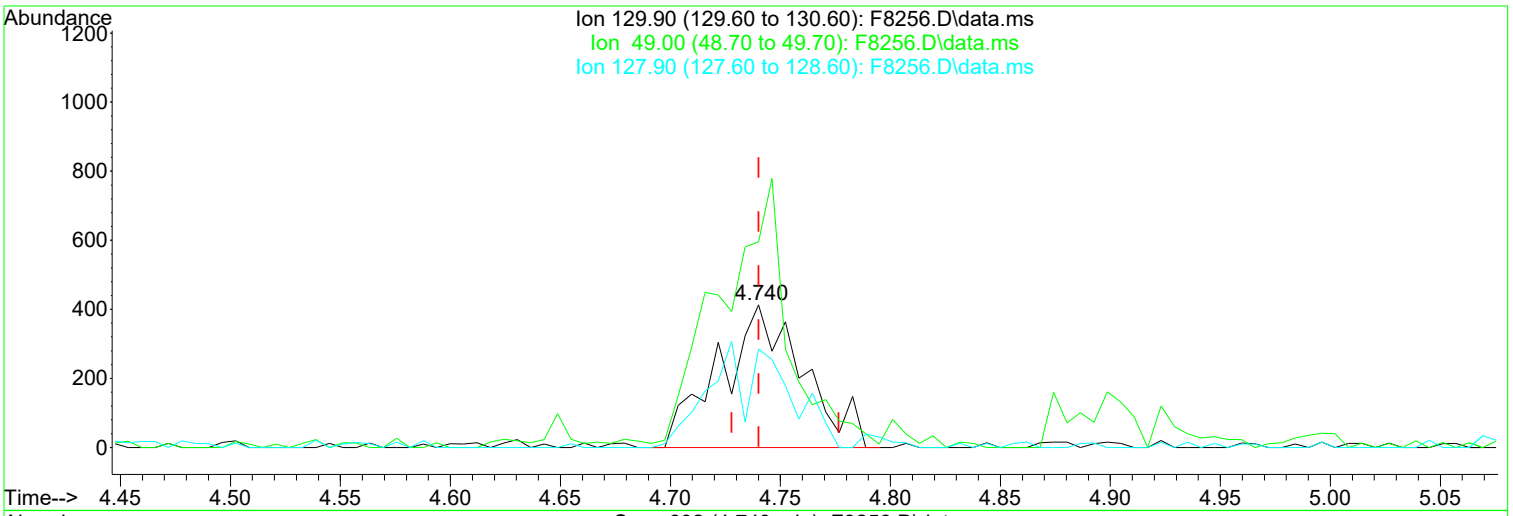
Before

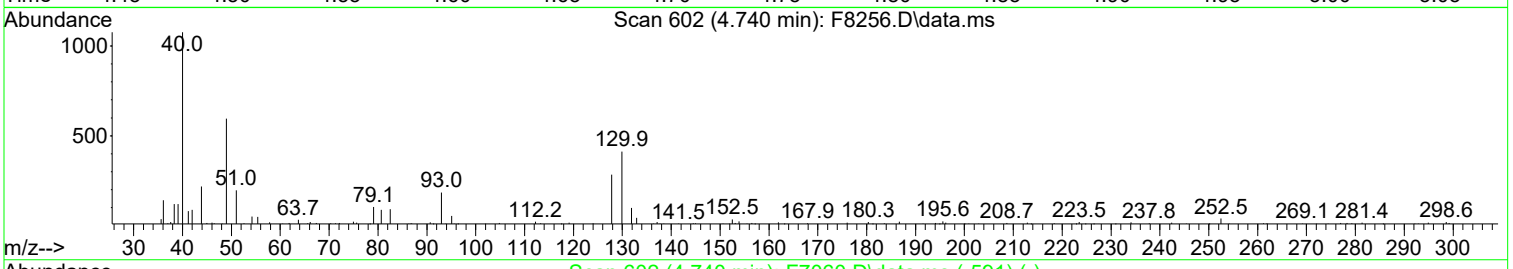
02/21/24

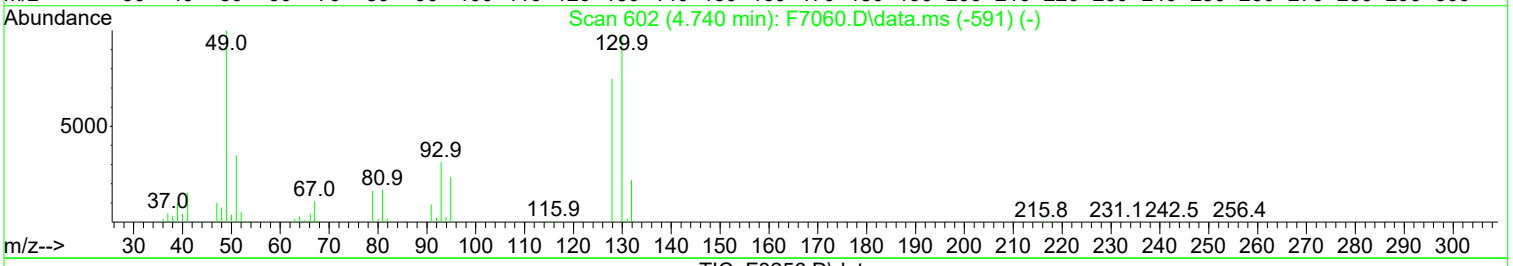
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8256.D\data.ms

(37) Bromochloromethane

4.740min (-0.000) 0.56 ug/L m

response 1086

Ion	Exp%	Act%
129.90	100.00	100.00
49.00	103.10	144.31#
127.90	77.00	69.01
0.00	0.00	0.00

Manual Integration:

After

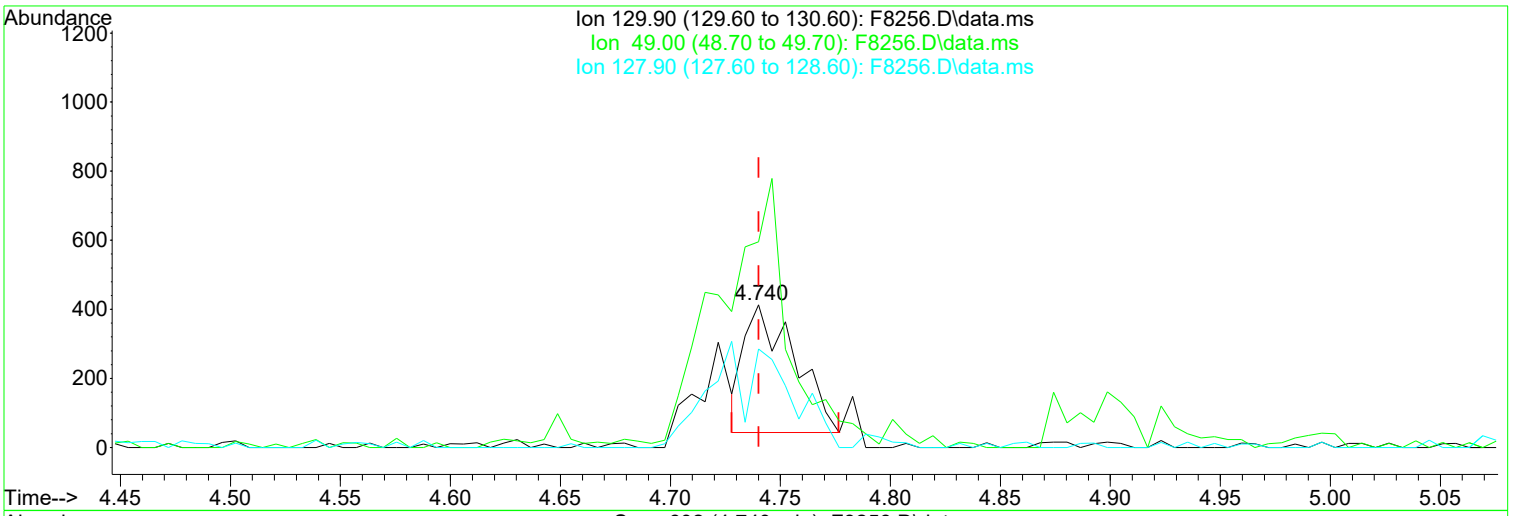
Poor integration.

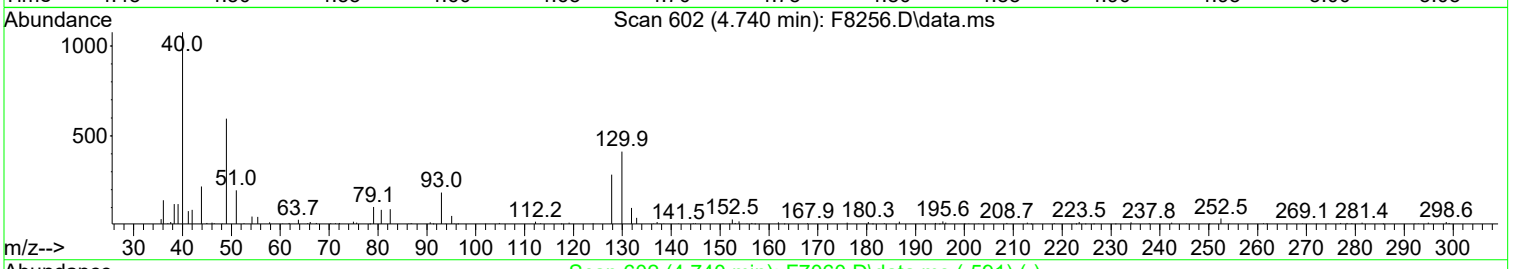
02/21/24

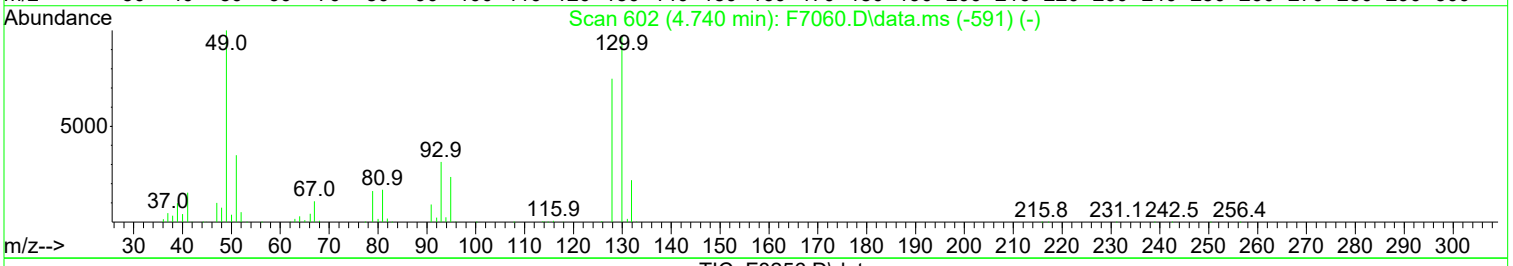
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8256.D\data.ms

(37) Bromochloromethane

4.740min (-0.000) 0.30 ug/L

response 588

Ion	Exp%	Act%
129.90	100.00	100.00
49.00	103.10	144.31#
127.90	77.00	69.01
0.00	0.00	0.00

Manual Integration:

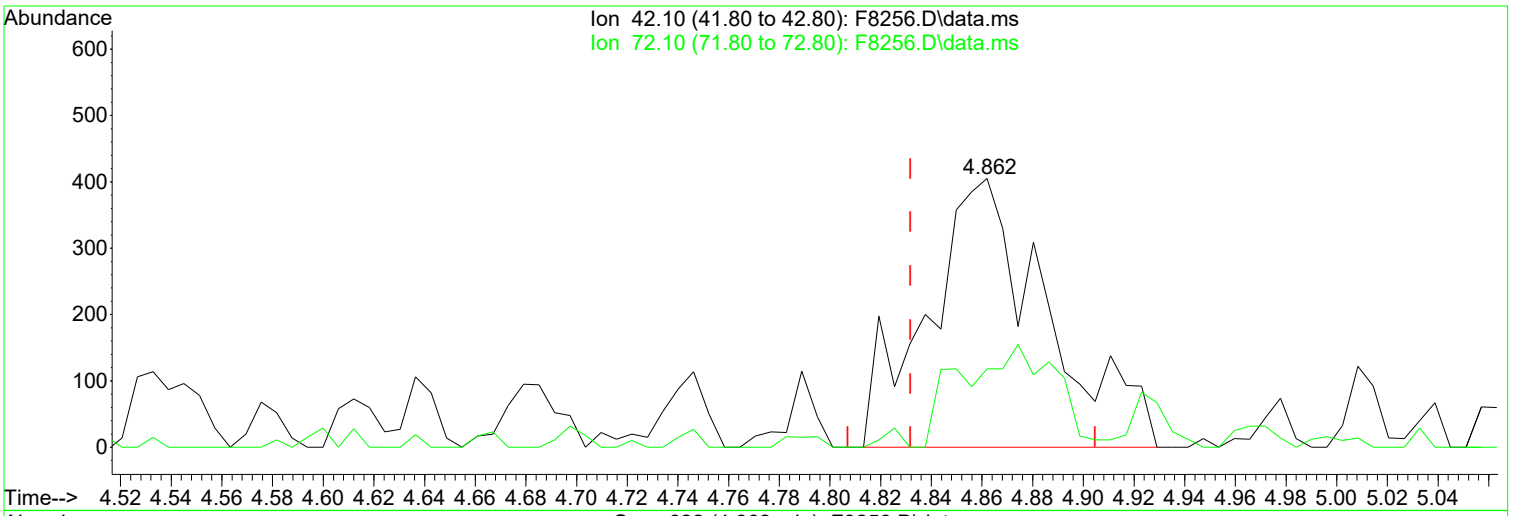
Before

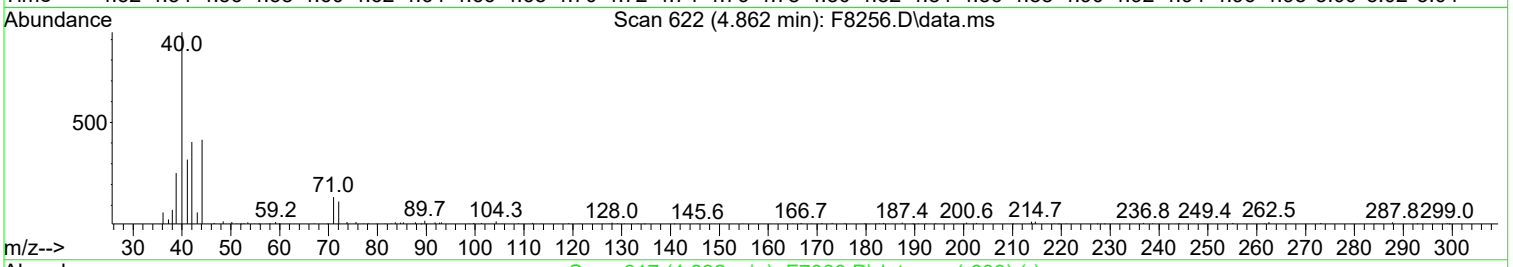
02/21/24

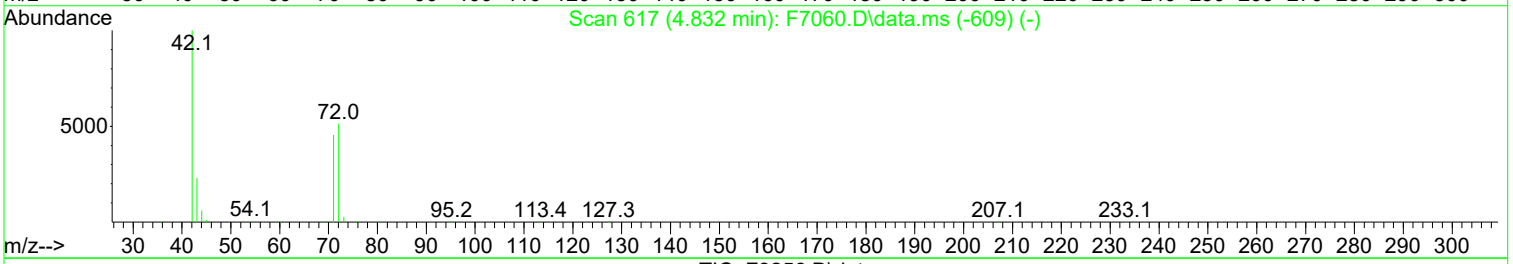
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8256.D\data.ms

(39) Tetrahydrofuran

4.862min (+ 0.030) 1.12 ug/L m

response 1319

Ion	Exp%	Act%
42.10	100.00	100.00
72.10	48.60	29.14
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

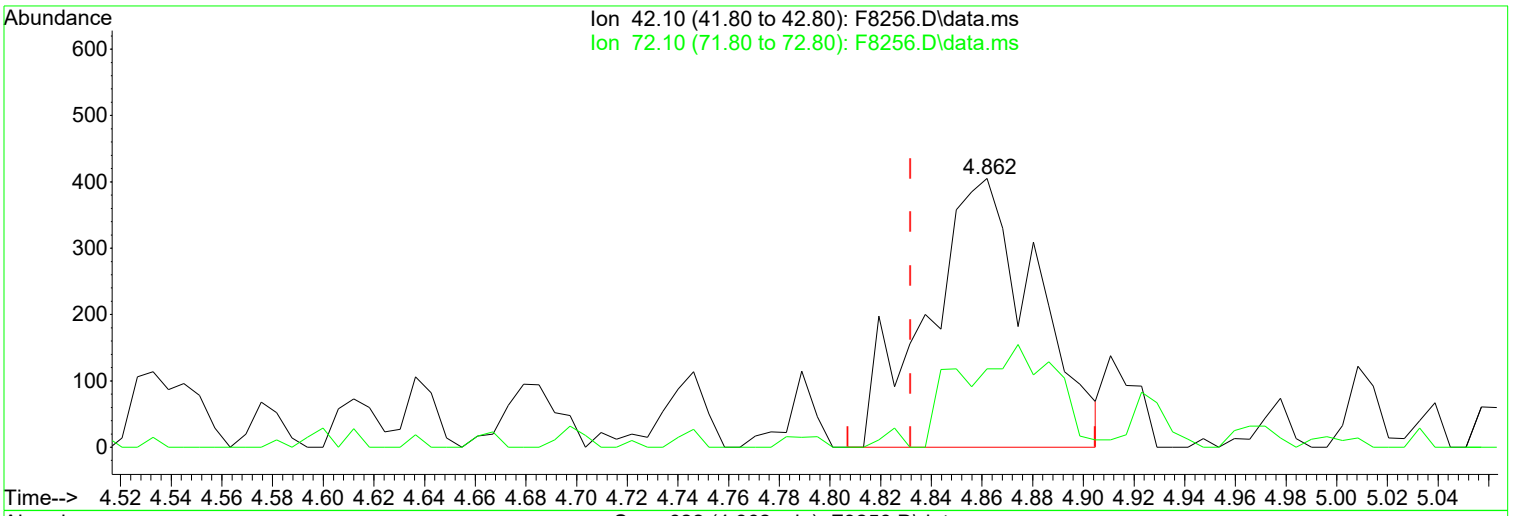
Poor integration.

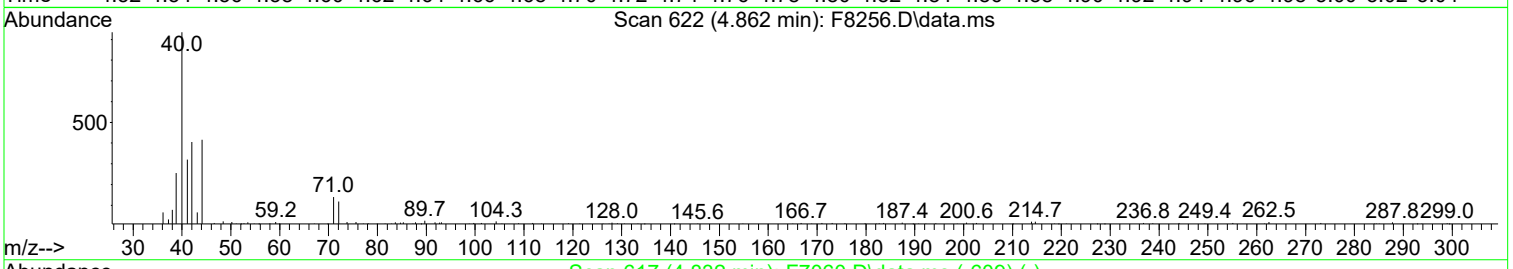
02/21/24

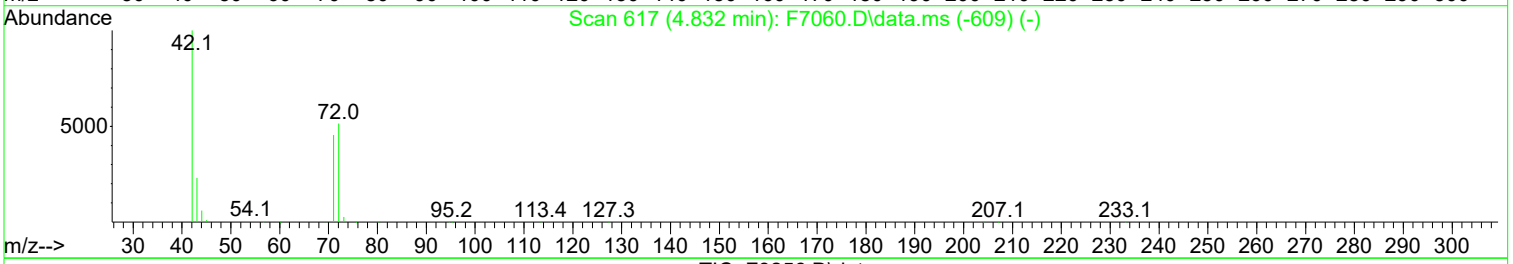
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8256.D\data.ms

(39) Tetrahydrofuran

4.862min (+ 0.030) 1.02 ug/L

response 1201

Ion	Exp%	Act%
42.10	100.00	100.00
72.10	48.60	29.14
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

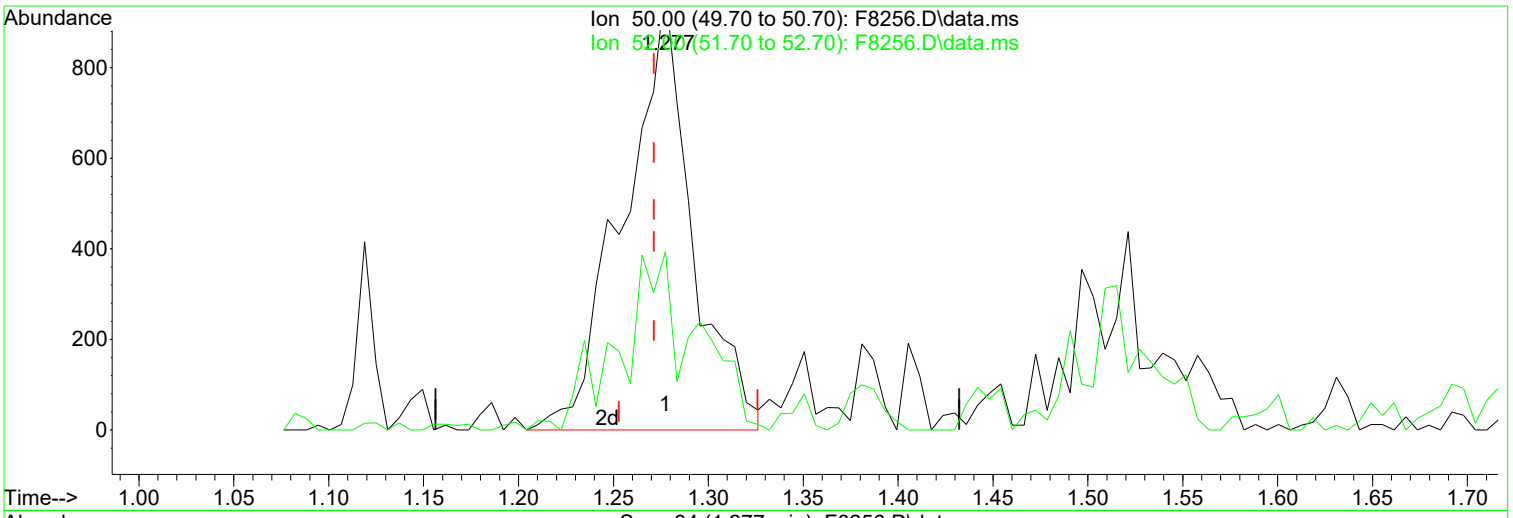
Before

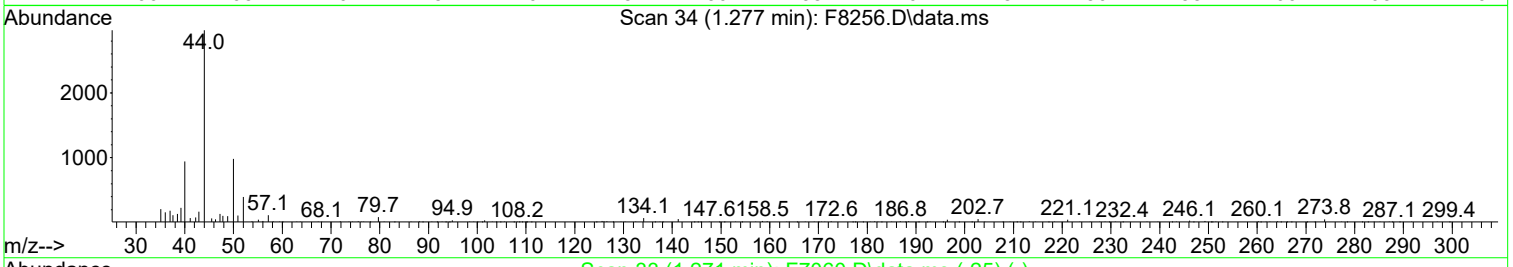
02/21/24

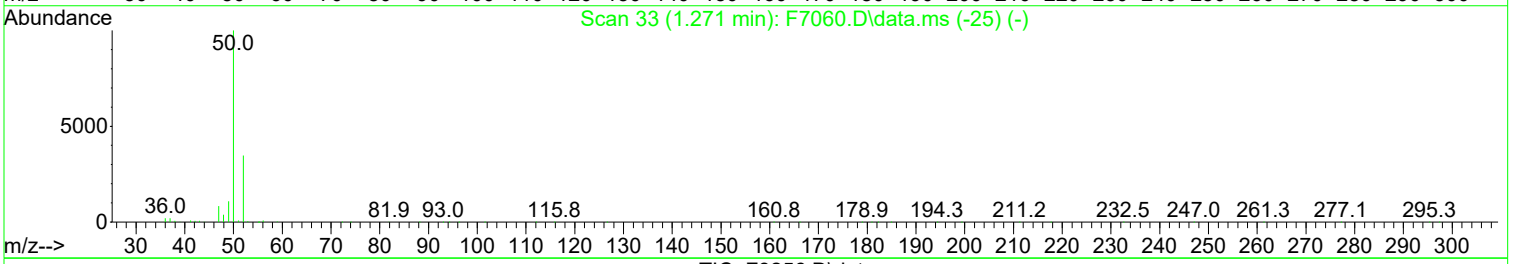
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8256.D\data.ms

(4) Chloromethane (P)

1.277min (+ 0.006) 0.79 ug/L m

response 2391

Ion	Exp%	Act%
50.00	100.00	100.00
52.00	34.50	40.04
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

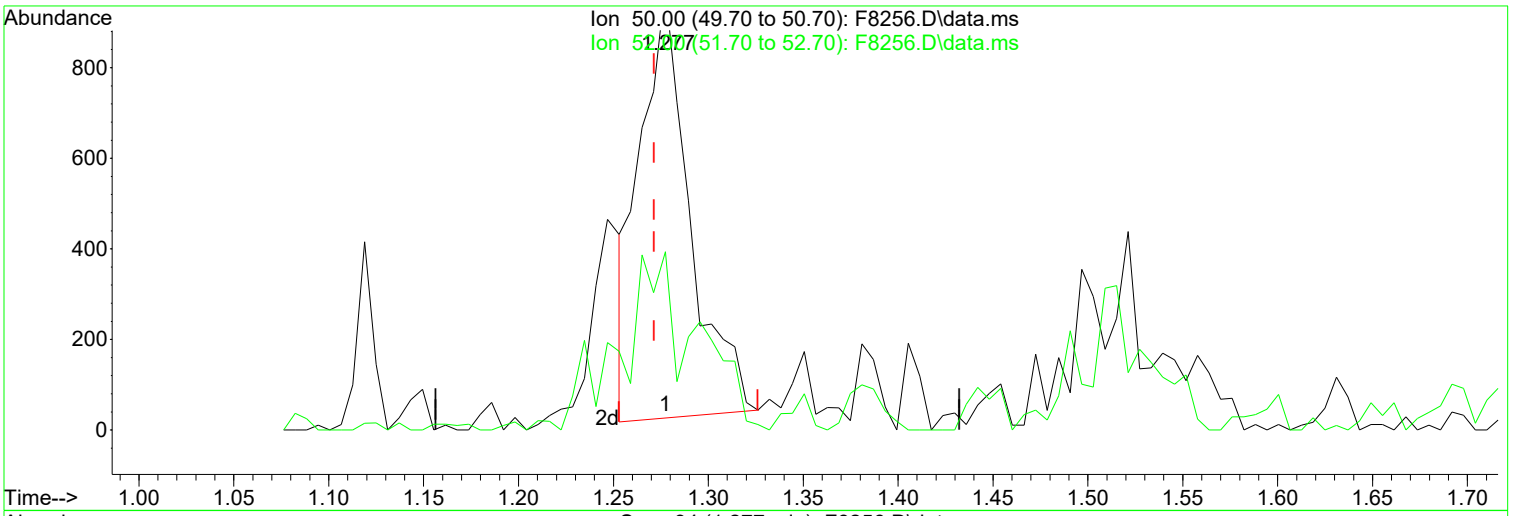
Poor integration.

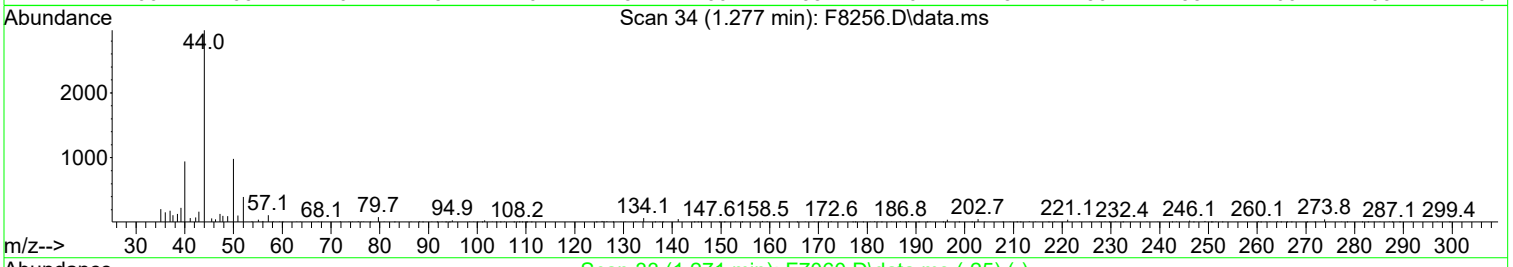
02/21/24

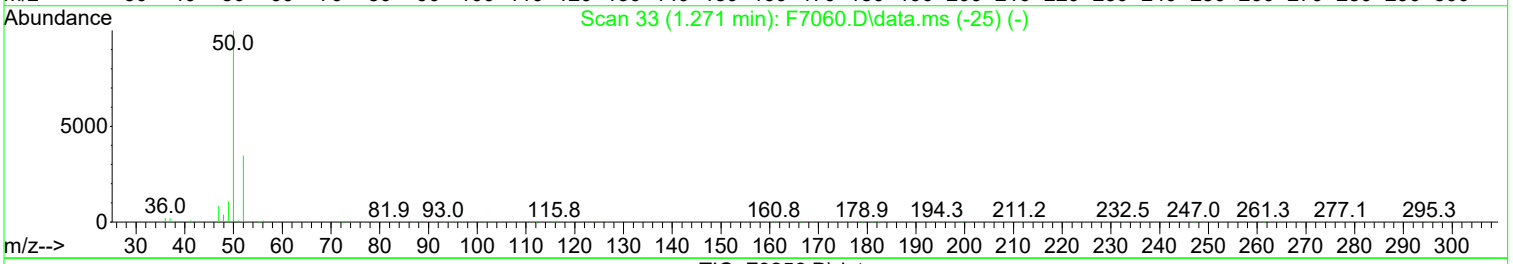
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8256.D\data.ms

(4) Chloromethane (P)

1.277min (+ 0.006) 0.56 ug/L

response 1716

Ion	Exp%	Act%
50.00	100.00	100.00
52.00	34.50	40.04
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

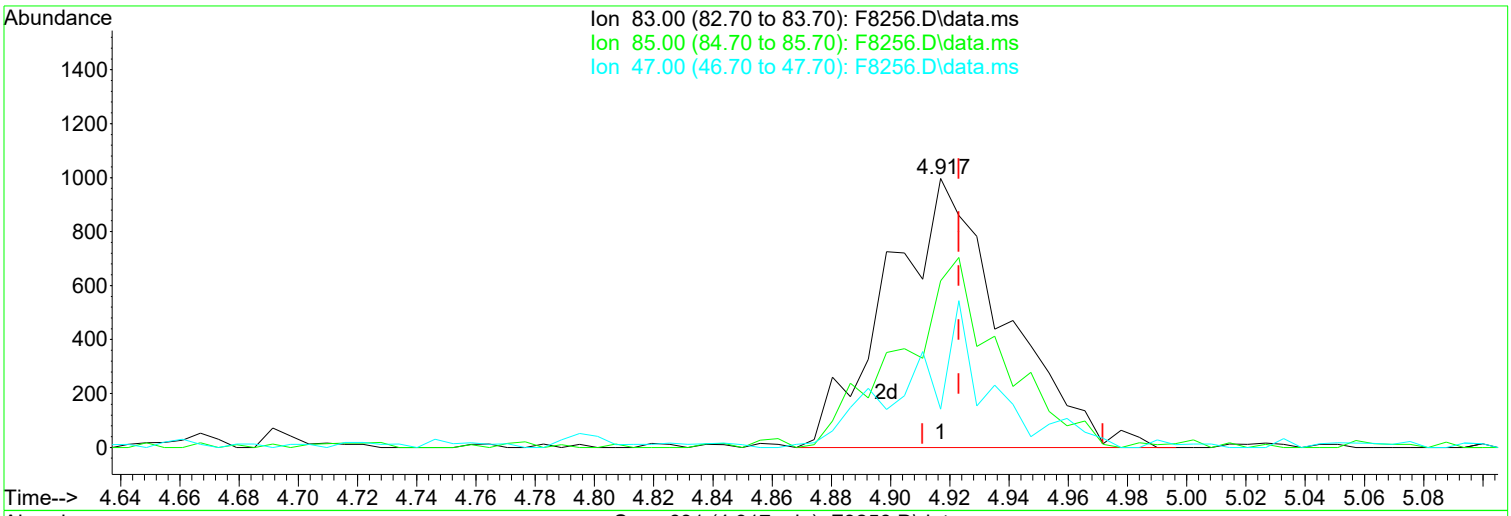
Before

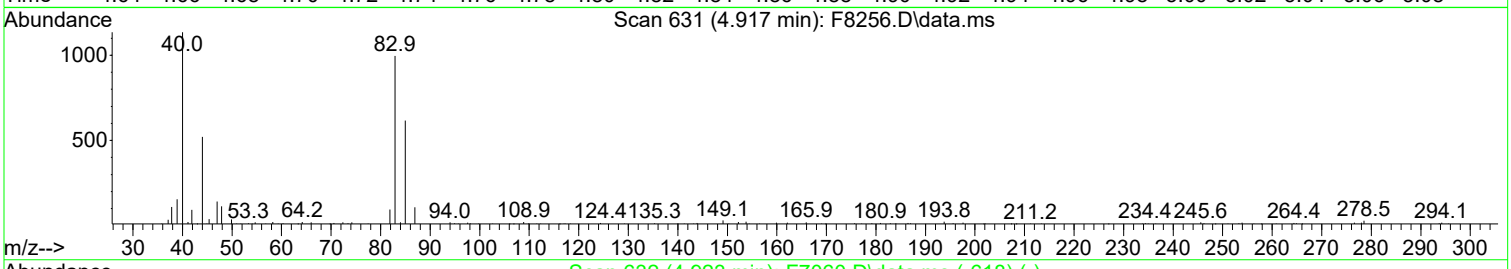
02/21/24

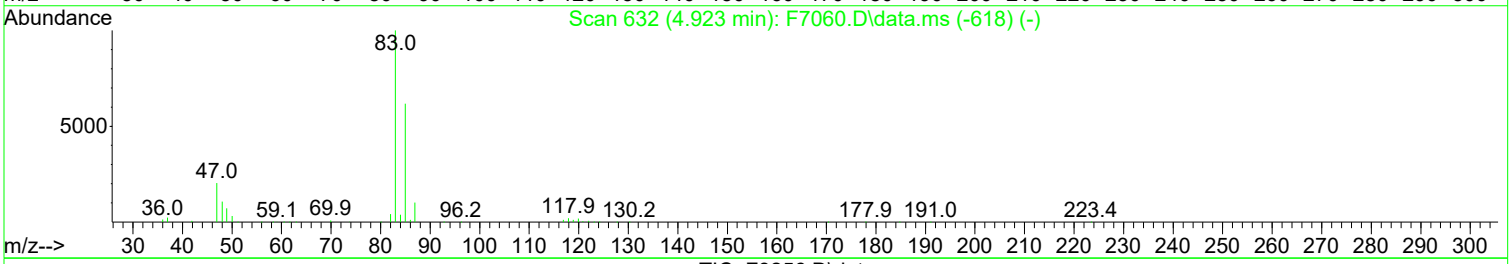
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8256.D\data.ms

(40) Chloroform (P)

4.917min (-0.006) 0.60 ug/L m

response 2737

Ion	Exp%	Act%
83.00	100.00	100.00
85.00	61.80	61.89
47.00	20.40	14.24
0.00	0.00	0.00

Manual Integration:

After

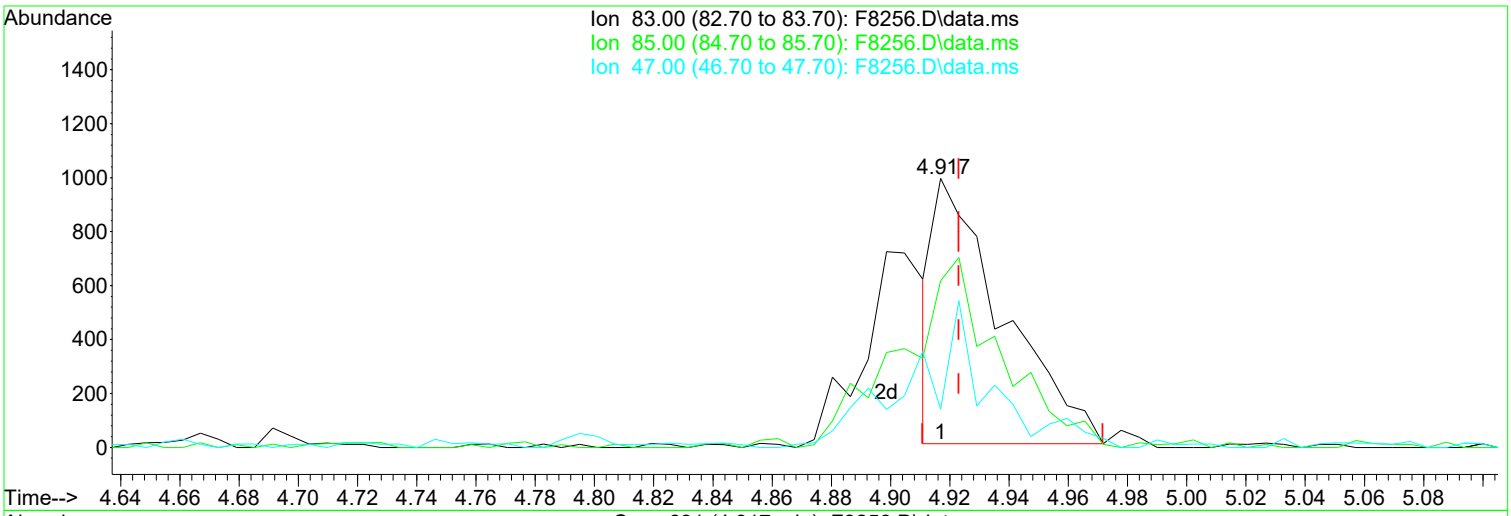
Poor integration.

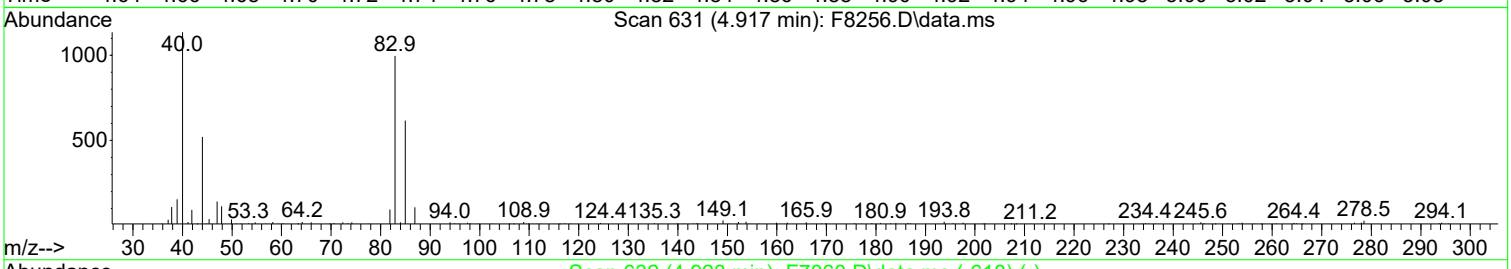
02/21/24

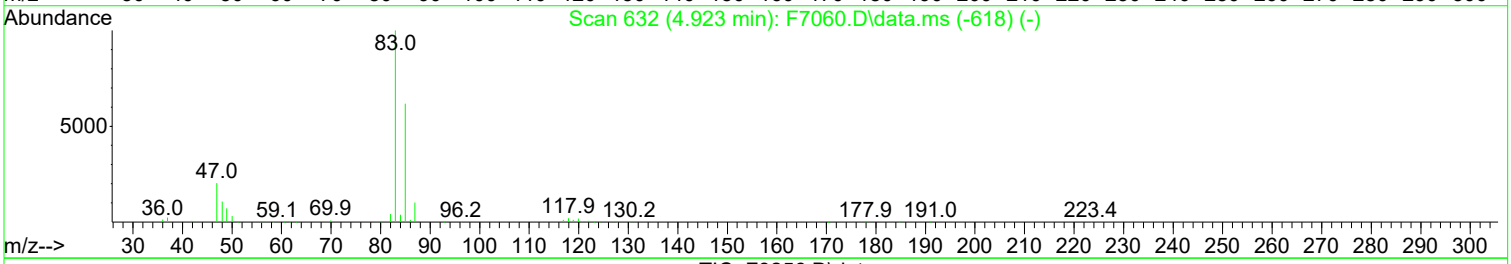
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8256.D\data.ms

(40) Chloroform (P)

4.917min (-0.006) 0.35 ug/L

response 1597

Ion	Exp%	Act%
83.00	100.00	100.00
85.00	61.80	61.89
47.00	20.40	14.24
0.00	0.00	0.00

Manual Integration:

Before

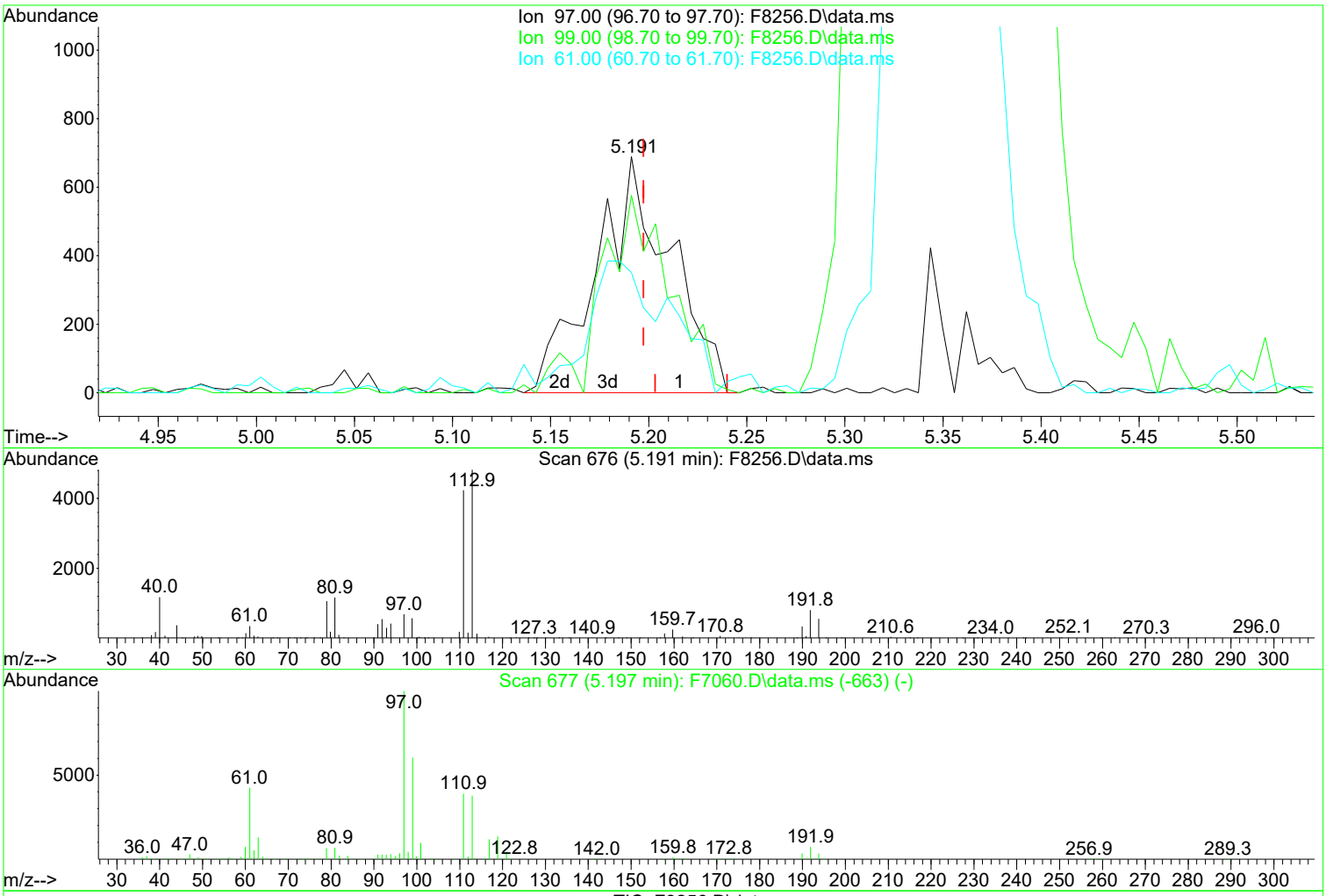
02/21/24

1st FN 02/21/24
2nd 02/21/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration



TIC: F8256.D\data.ms

(41) 1,1,1-Trichloroethane (P)

5.191min (-0.006) 0.51 ug/L m

response 1831

Ion	Exp%	Act%
97.00	100.00	100.00
99.00	60.40	83.60#
61.00	42.50	50.94
0.00	0.00	0.00

Manual Integration:

After

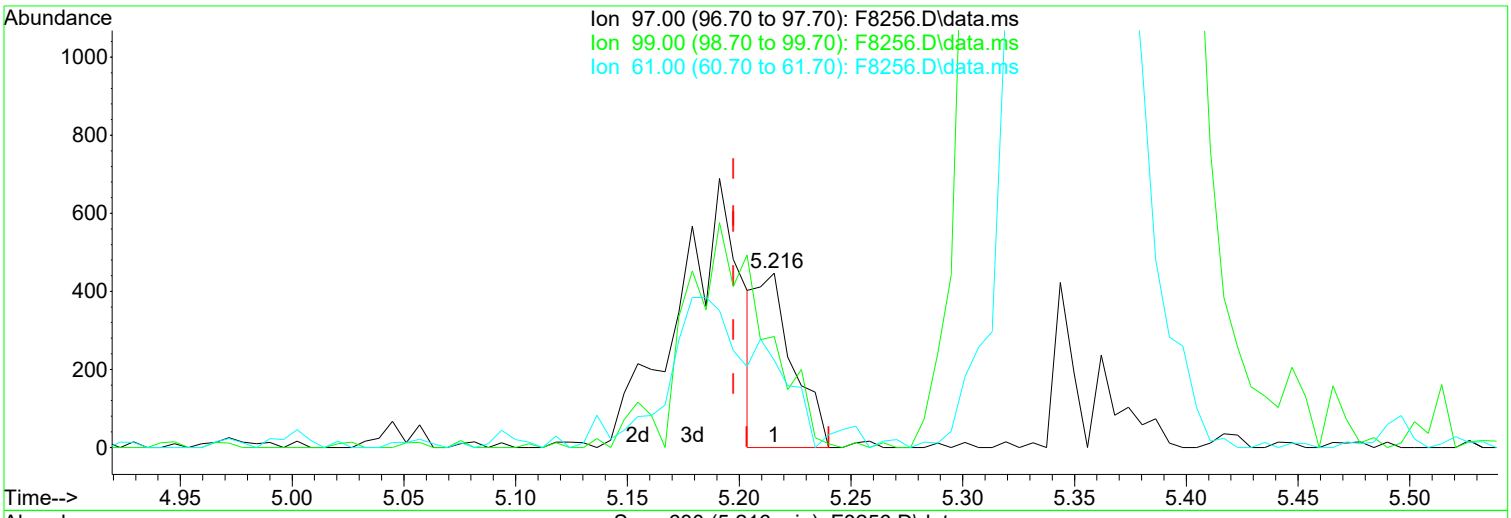
Poor integration.

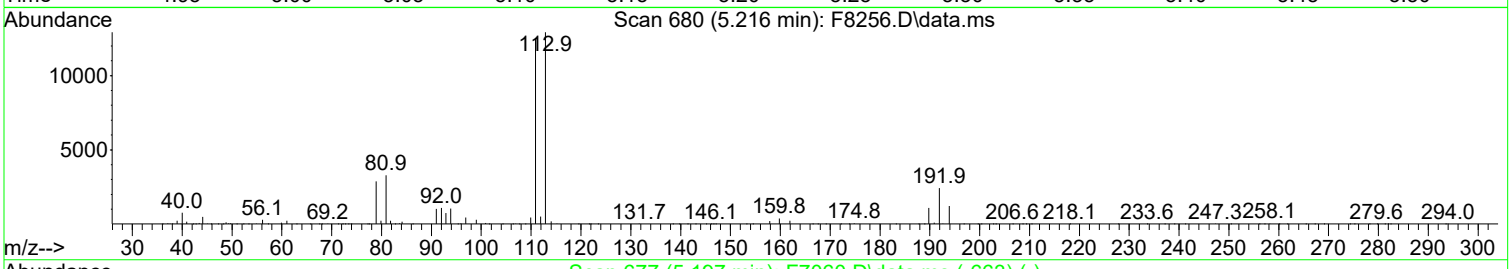
02/21/24

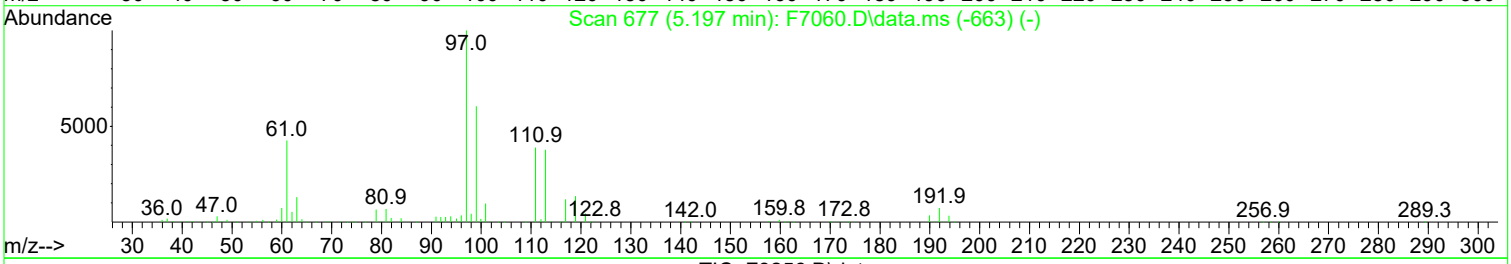
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8256.D\data.ms

(41) 1,1,1-Trichloroethane (P)

5.216min (+ 0.018) 0.14 ug/L

response 509

Ion	Exp%	Act%
97.00	100.00	100.00
99.00	60.40	63.53
61.00	42.50	50.11
0.00	0.00	0.00

Manual Integration:

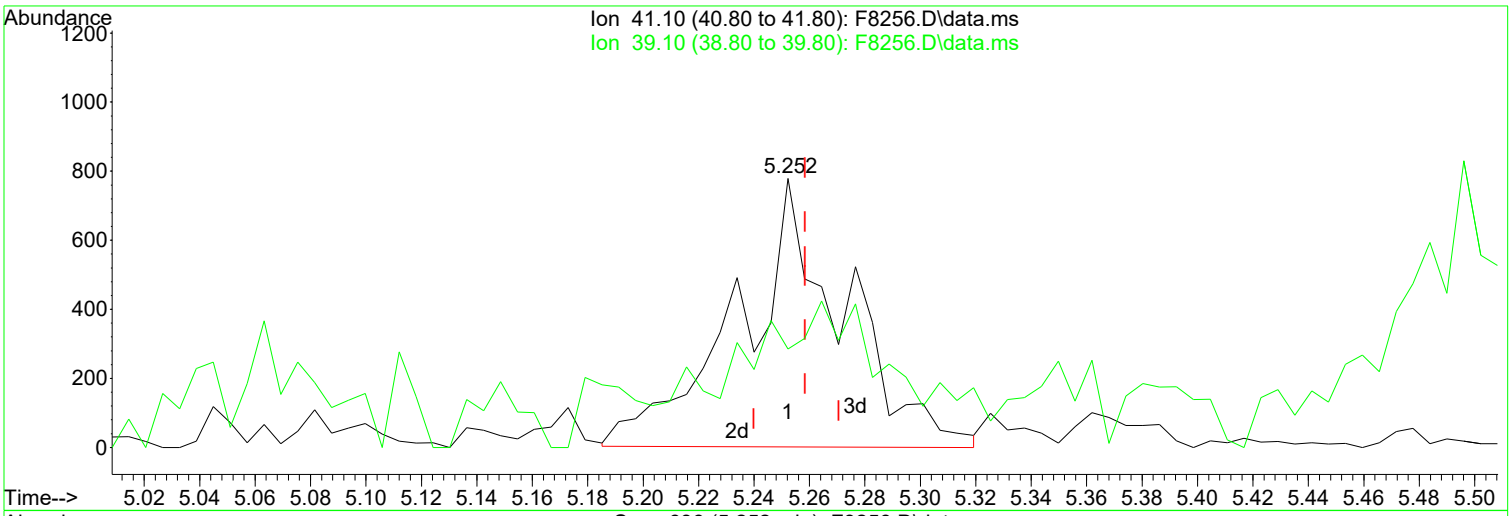
Before

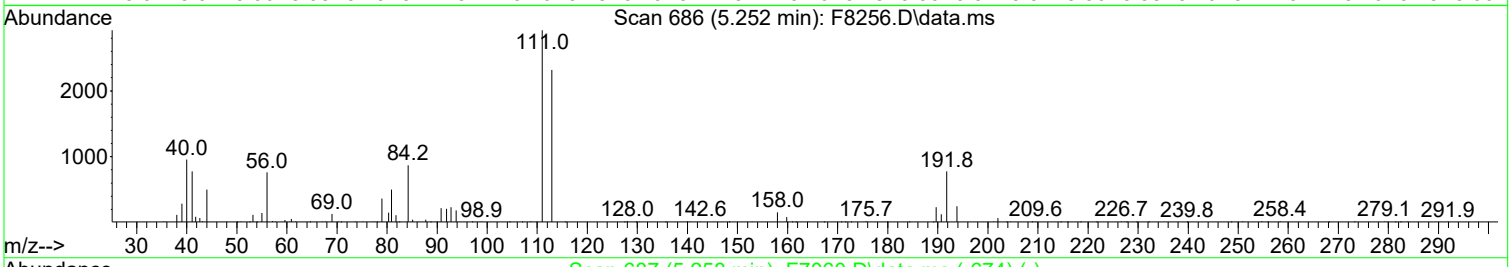
02/21/24

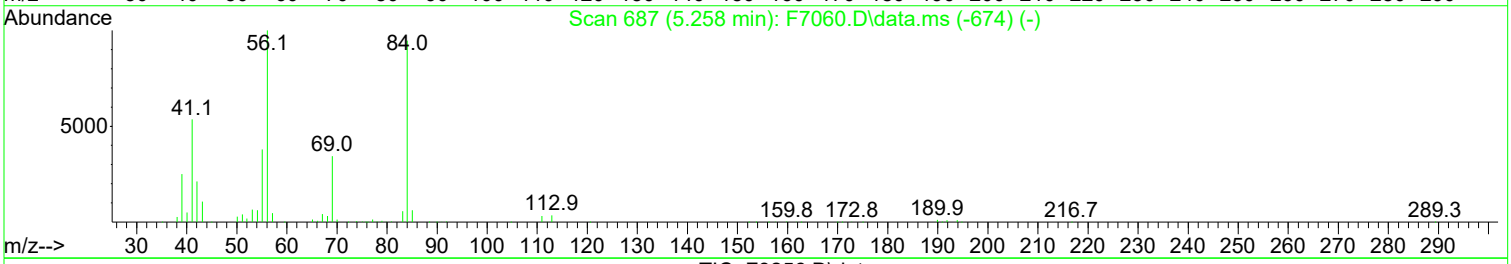
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8256.D\data.ms

(44) Cyclohexane (P)

5.252min (-0.006) 0.93 ug/L m

response 2052

Ion	Exp%	Act%
41.10	100.00	100.00
39.10	47.00	36.59
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

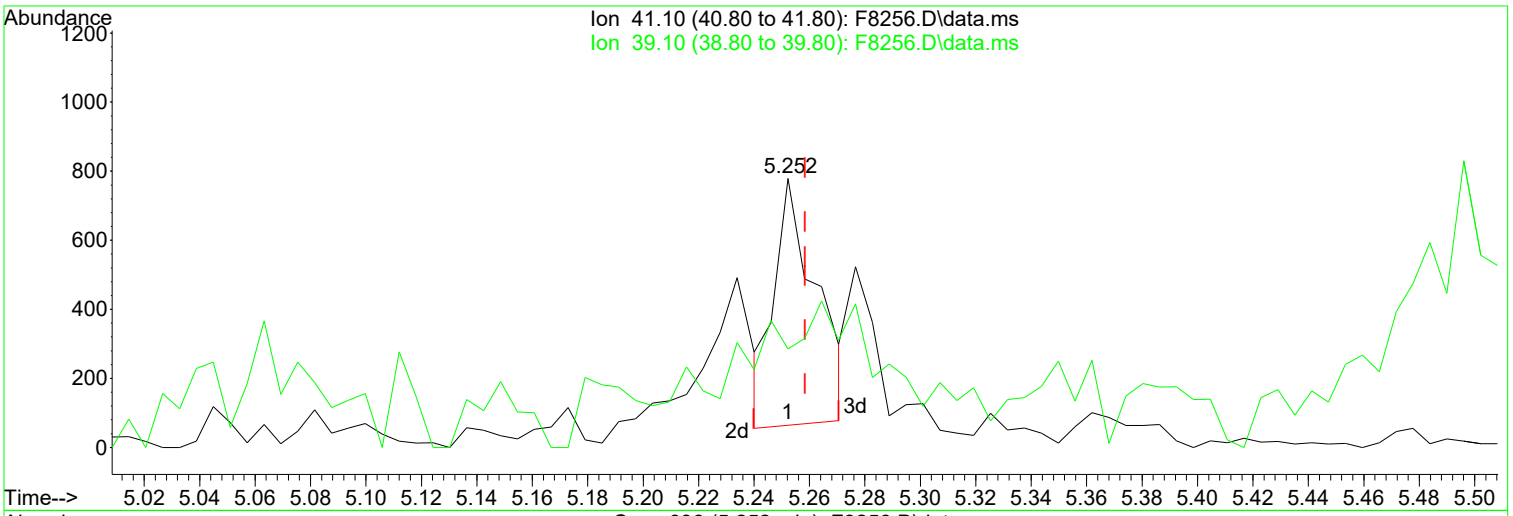
Poor integration.

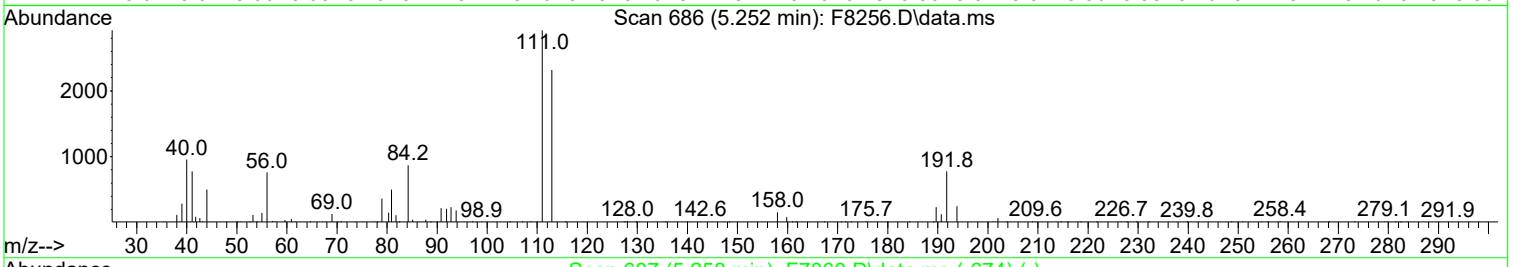
02/21/24

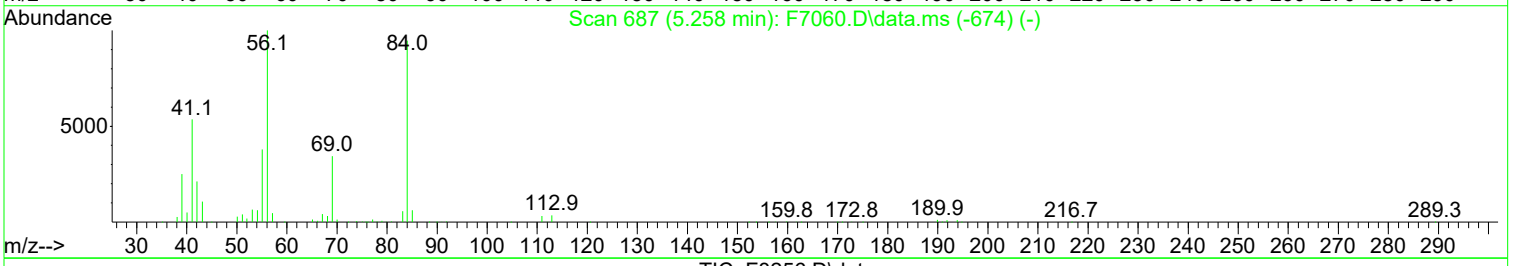
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8256.D\data.ms

(44) Cyclohexane (P)

5.252min (-0.006) 0.34 ug/L

response 753

Ion	Exp%	Act%
41.10	100.00	100.00
39.10	47.00	32.95
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

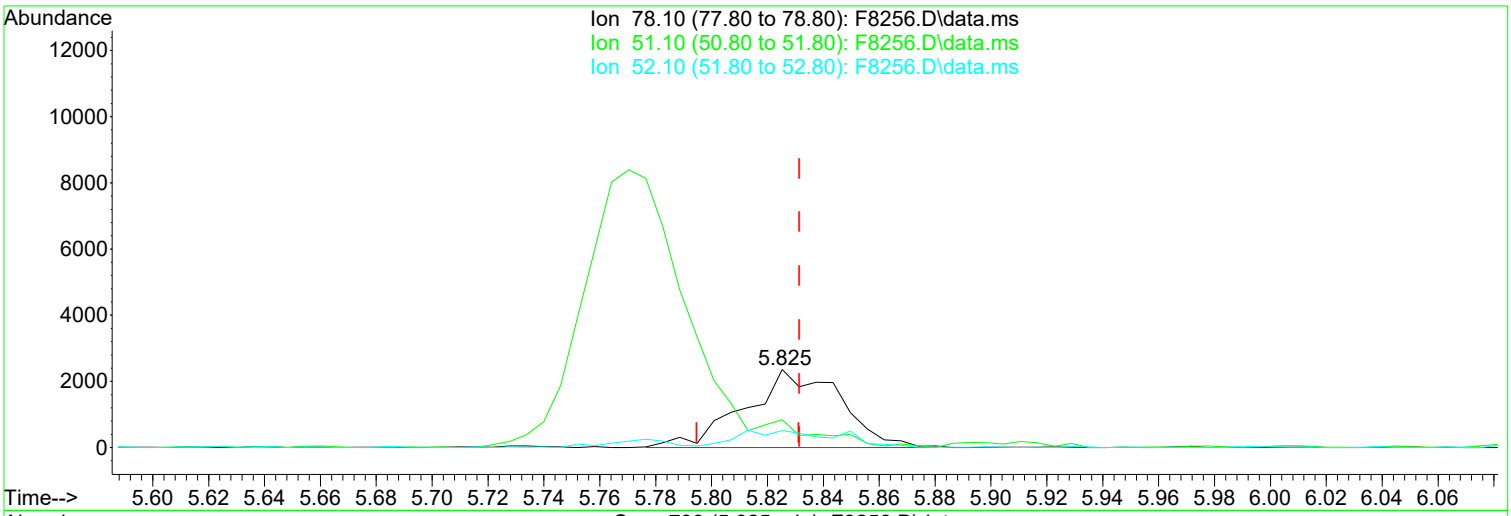
Before

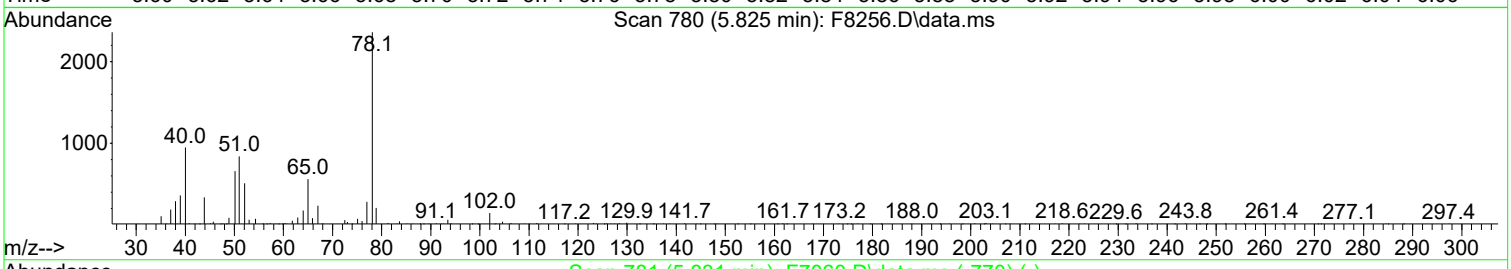
02/21/24

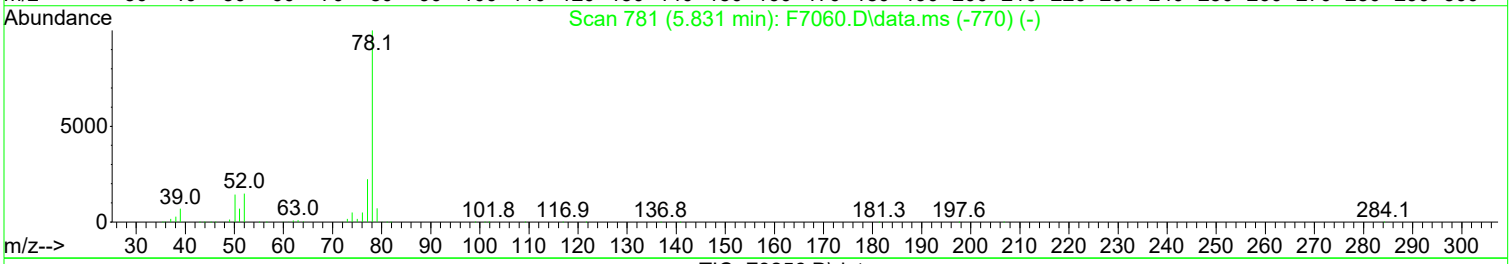
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8256.D\data.ms

(49) Benzene (P)

5.825min (-0.006) 0.51 ug/L m

response 5582

Ion	Exp%	Act%
78.10	100.00	100.00
51.10	15.90	35.52
52.10	15.00	21.53
0.00	0.00	0.00

Manual Integration:

After

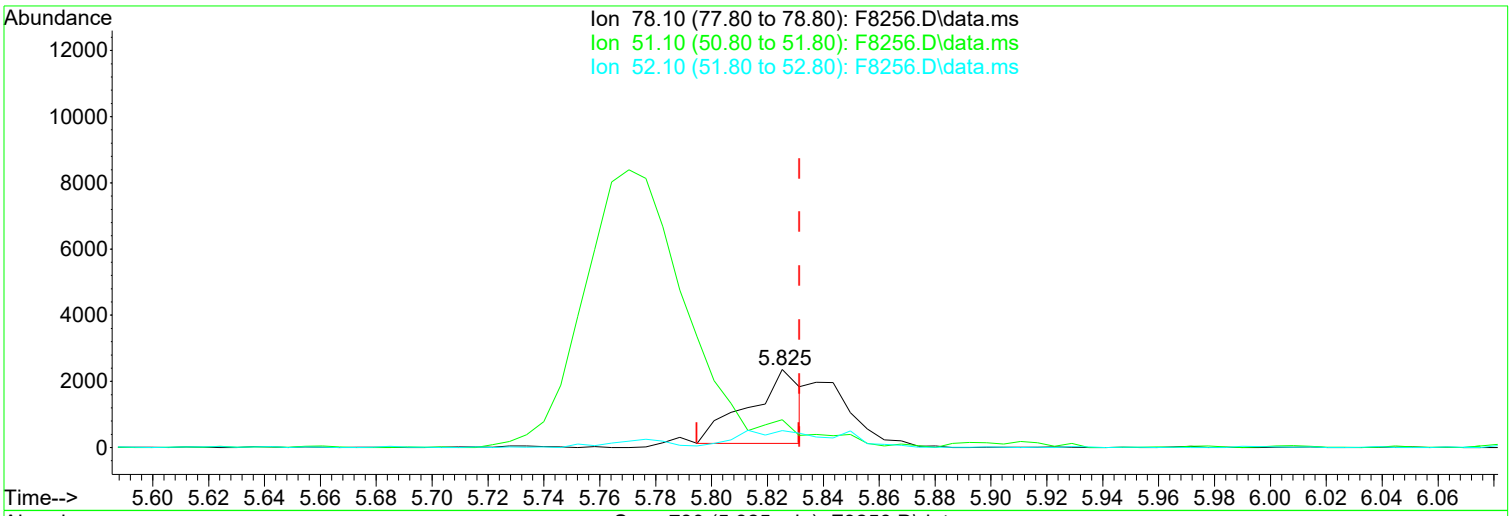
Poor integration.

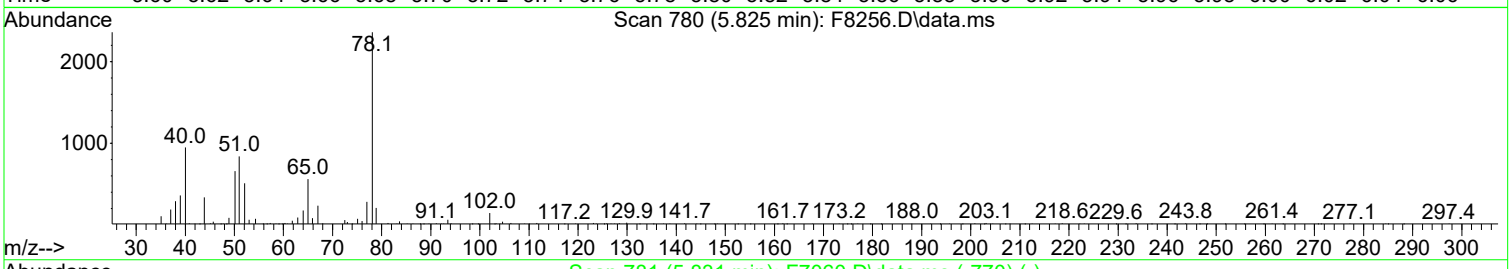
02/21/24

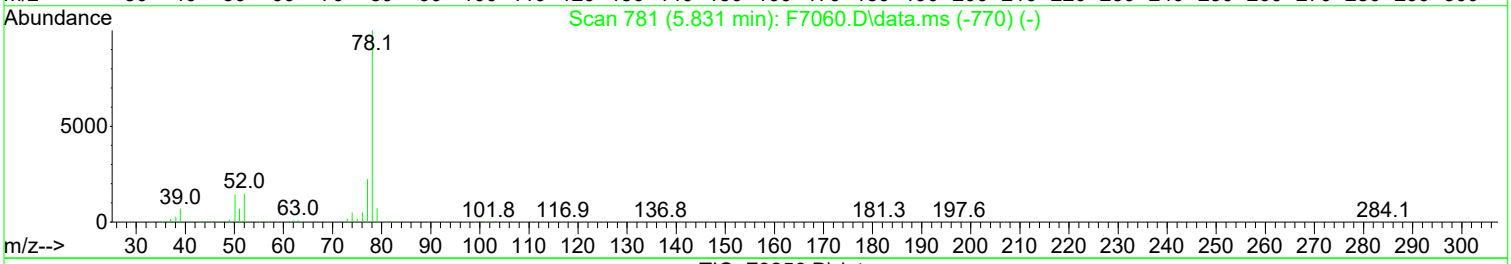
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8256.D\data.ms

(49) Benzene (P)

5.825min (-0.006) 0.26 ug/L

response 2860

Ion	Exp%	Act%
78.10	100.00	100.00
51.10	15.90	35.52
52.10	15.00	21.53
0.00	0.00	0.00

Manual Integration:

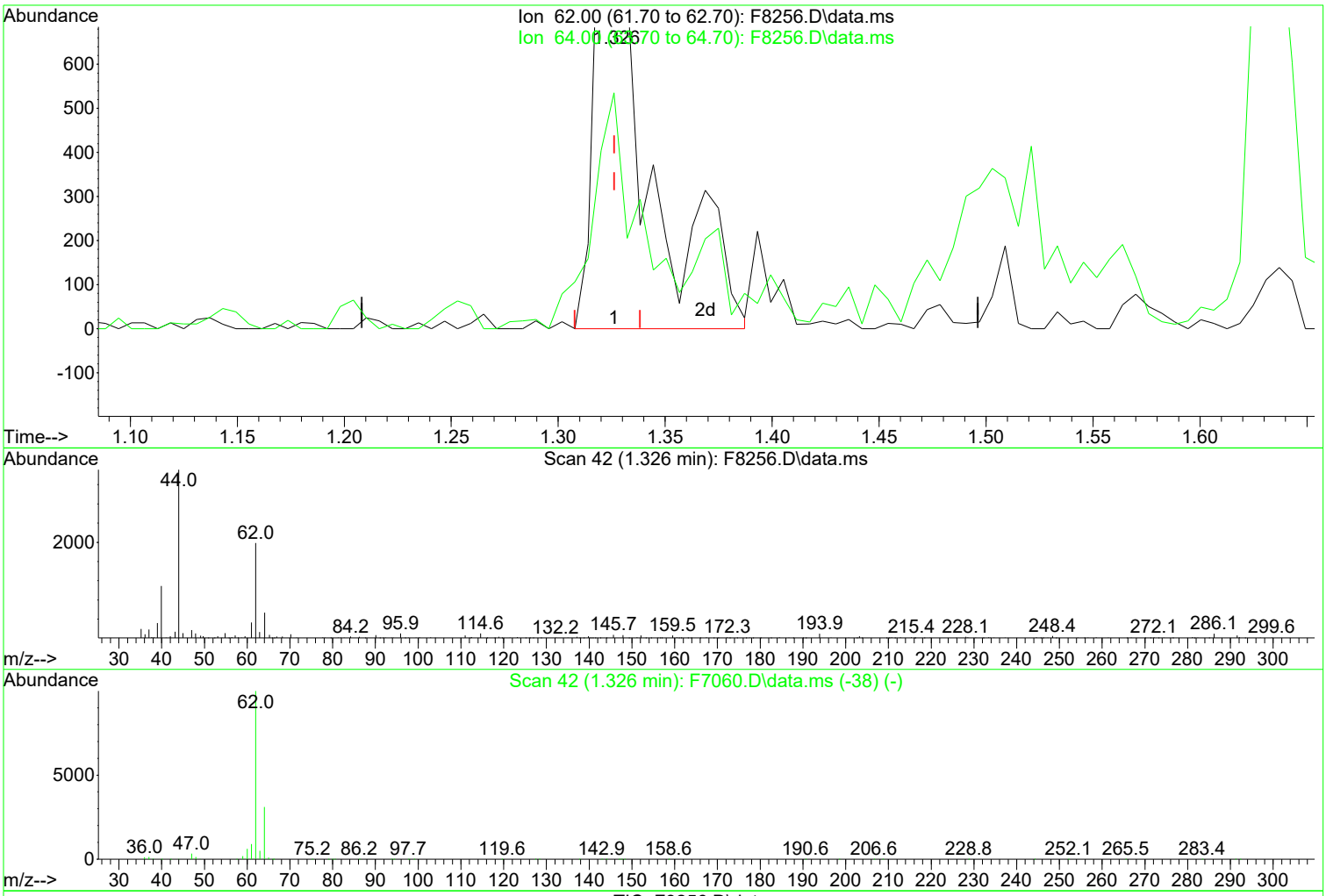
Before

02/21/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration



TIC: F8256.D\data.ms

(5) Vinyl Chloride (P)

1.326min (-0.000) 0.66 ug/L m

response 2165

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	31.00	26.93
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

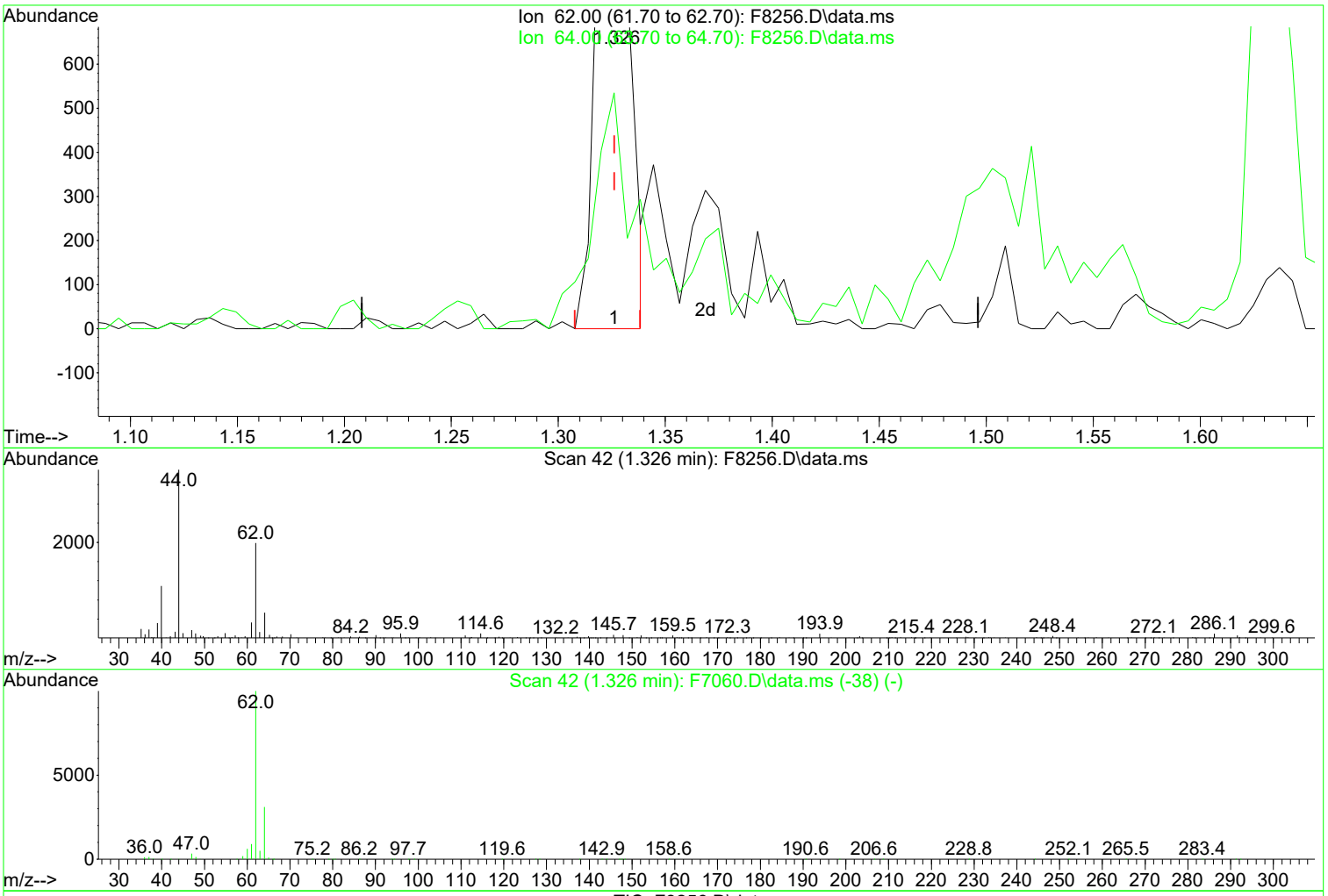
Poor integration.

02/21/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration



TIC: F8256.D\data.ms

(5) Vinyl Chloride (P)

1.326min (-0.000) 0.49 ug/L

response 1597

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	31.00	26.93
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

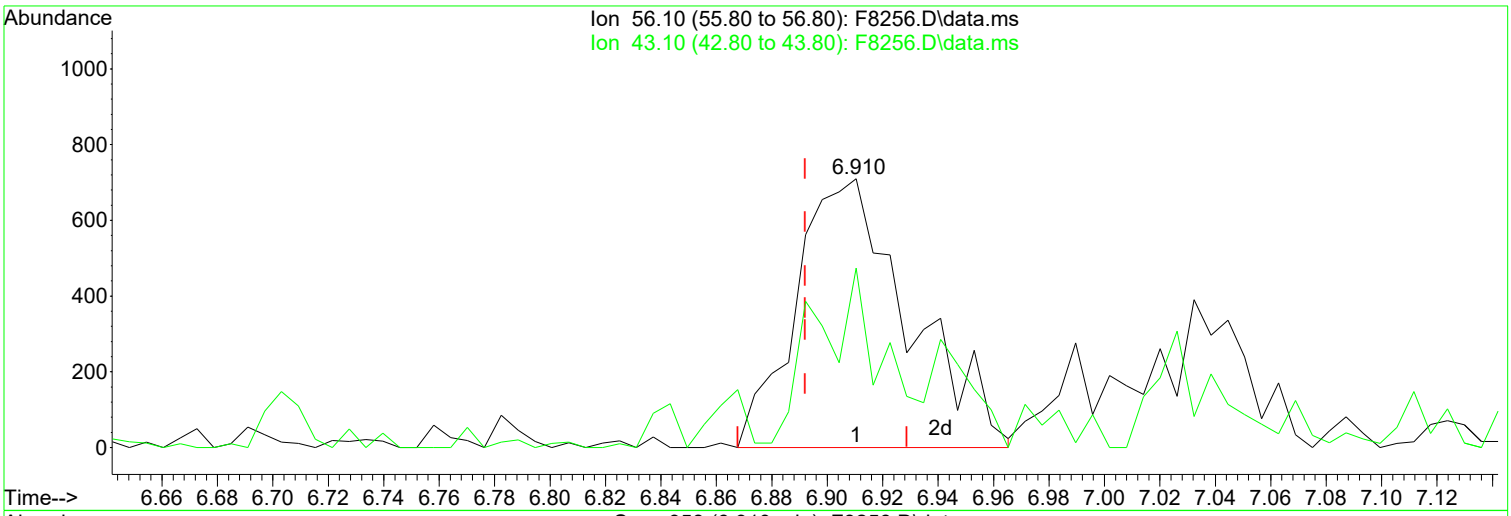
Before

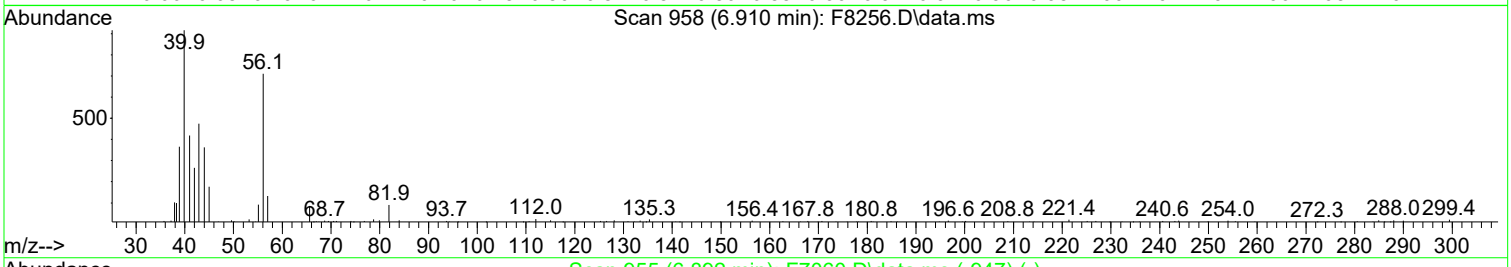
02/21/24

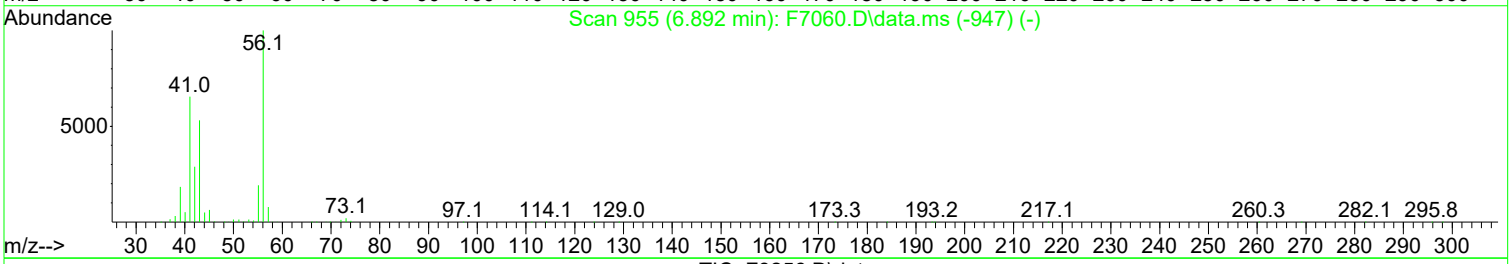
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8256.D\data.ms

(53) 1-Butanol

6.910min (+ 0.018) 16.59 ug/L m

response 2022

Ion	Exp%	Act%
56.10	100.00	100.00
43.10	53.10	66.76
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

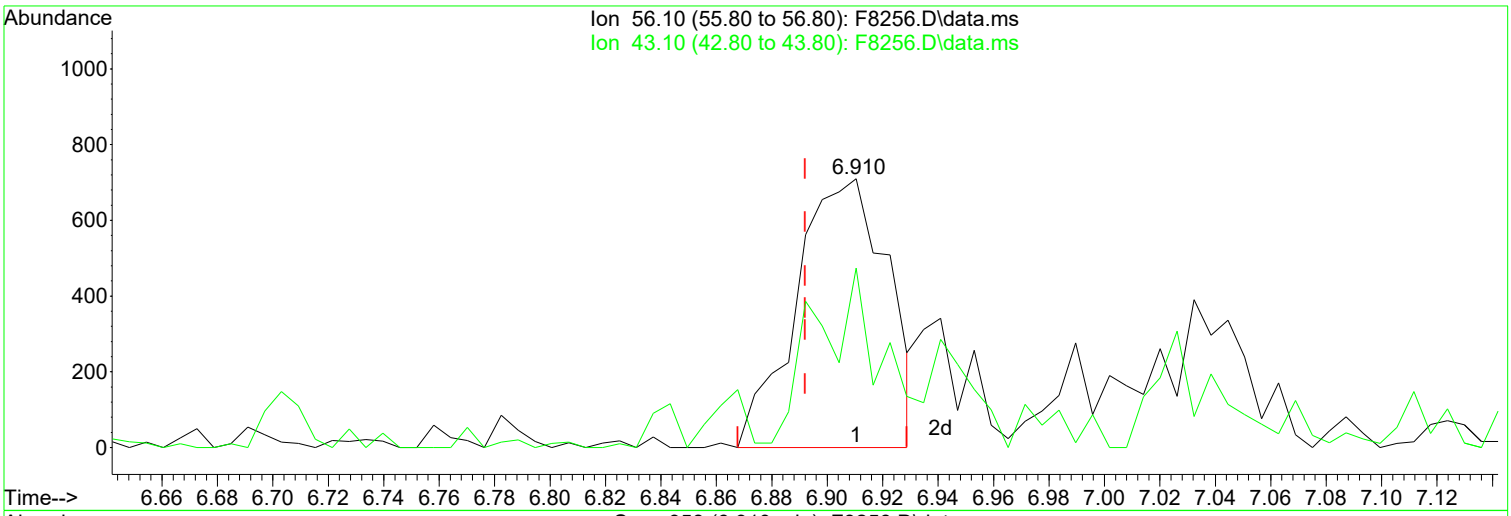
Poor integration.

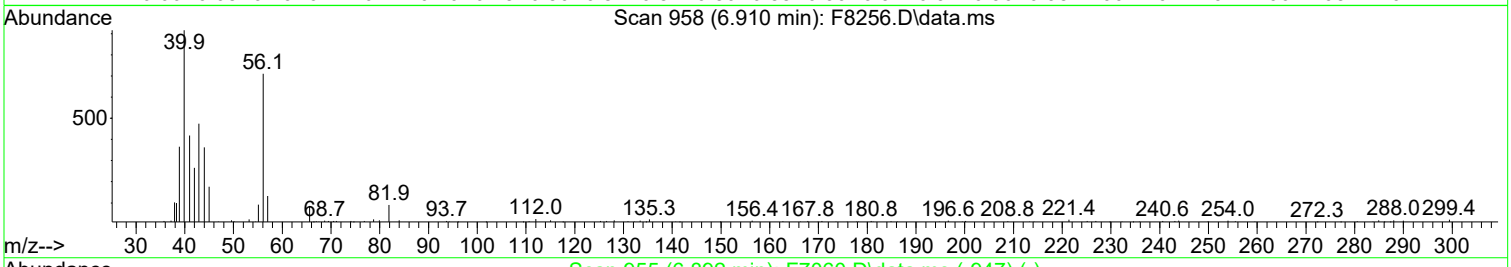
02/21/24

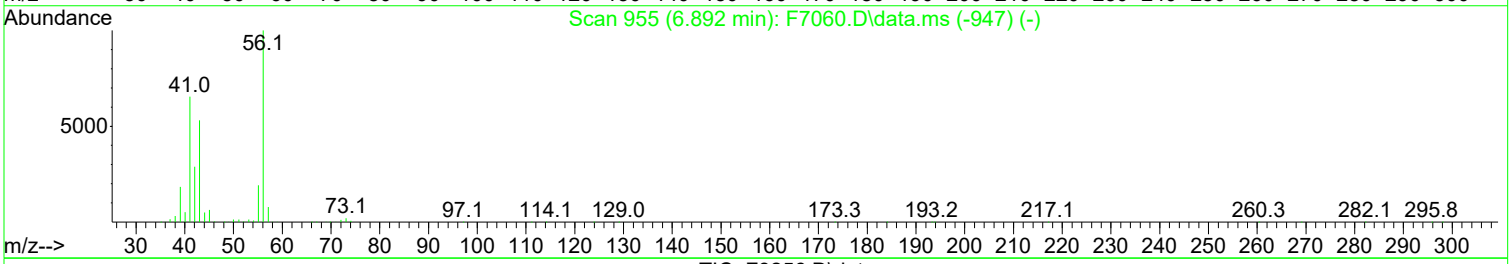
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8256.D\data.ms

(53) 1-Butanol

6.910min (+ 0.018) 13.32 ug/L

response 1623

Ion	Exp%	Act%
56.10	100.00	100.00
43.10	53.10	66.76
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

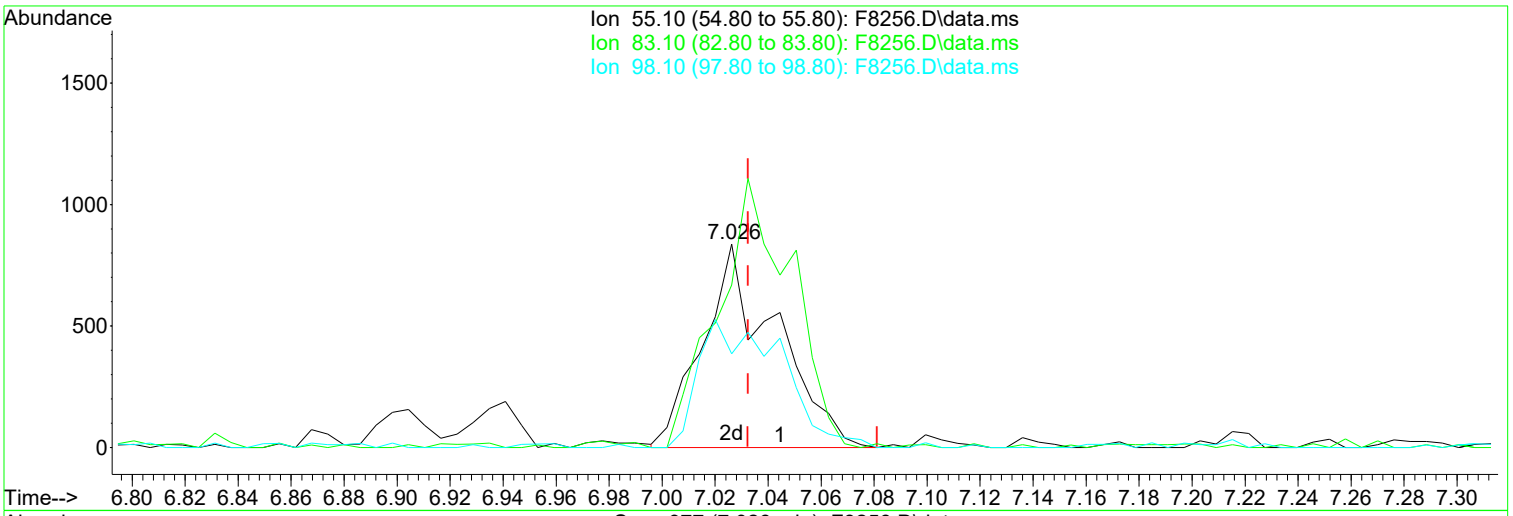
Before

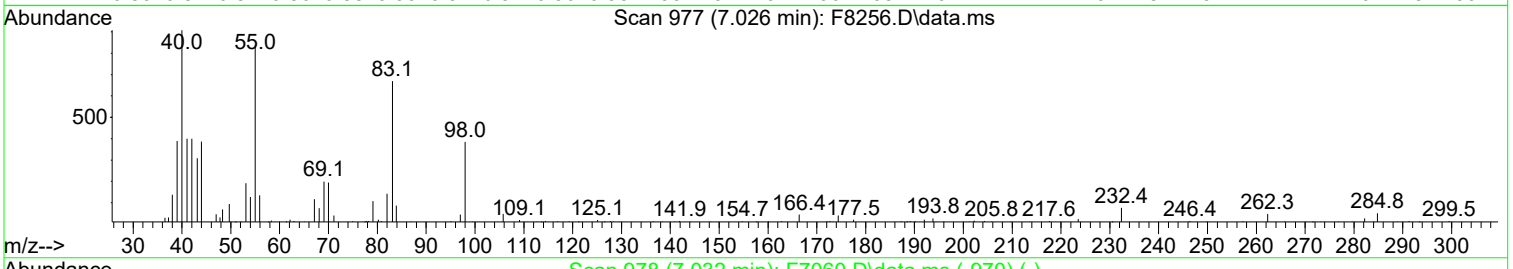
02/21/24

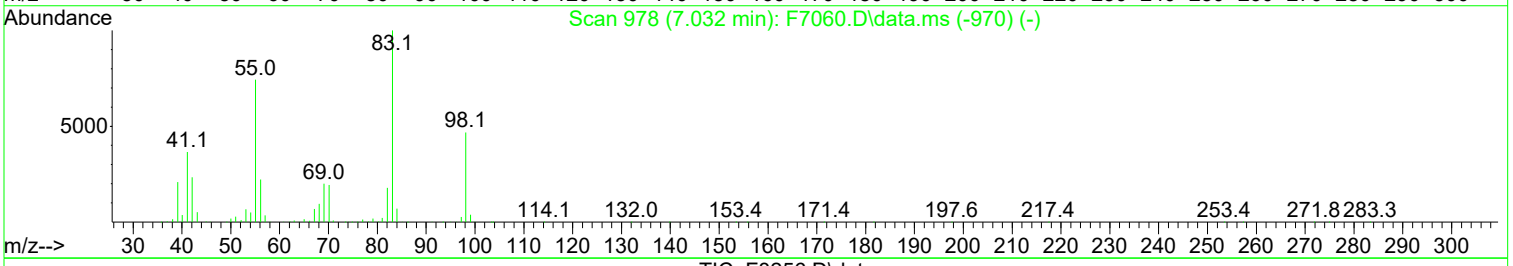
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8256.D\data.ms

(55) Methylcyclohexane (P)

7.026min (-0.006) 0.49 ug/L m

response 1597

Ion	Exp%	Act%
55.10	100.00	100.00
83.10	134.10	79.83#
98.10	62.90	45.94
0.00	0.00	0.00

Manual Integration:

After

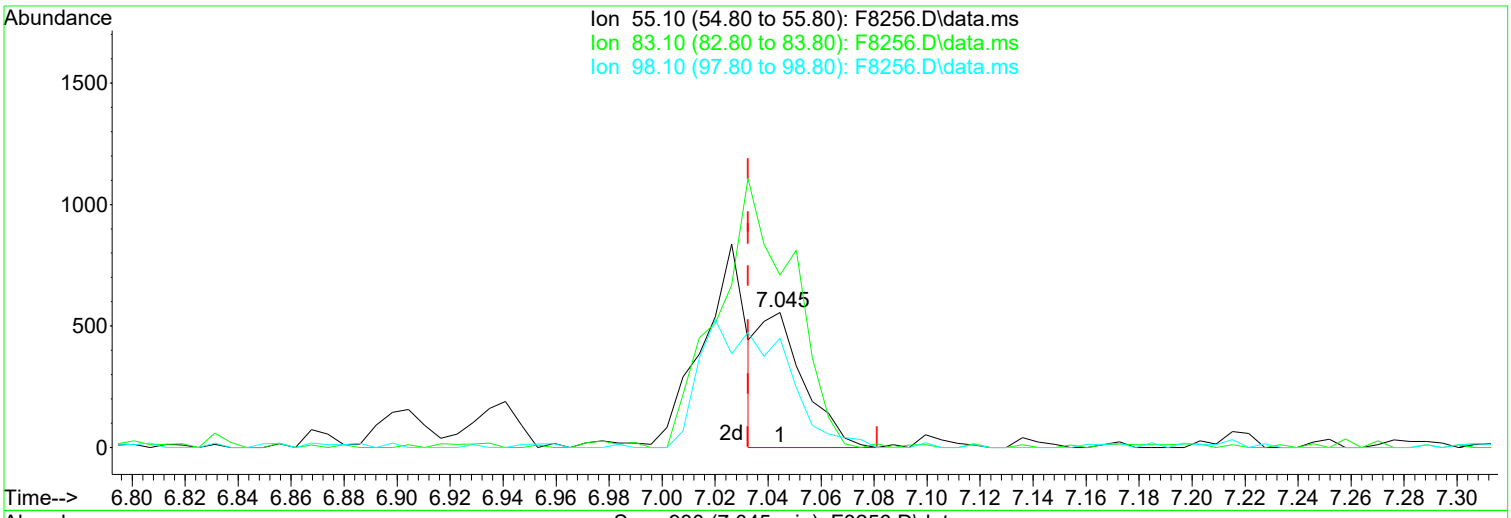
Poor integration.

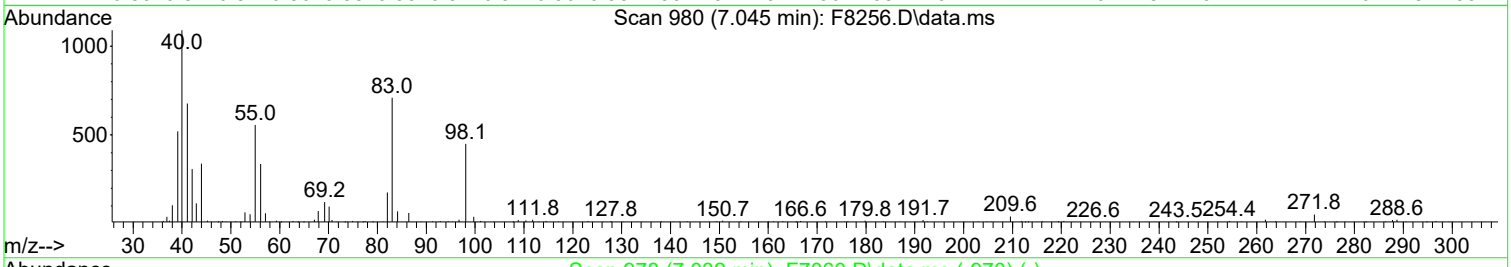
02/21/24

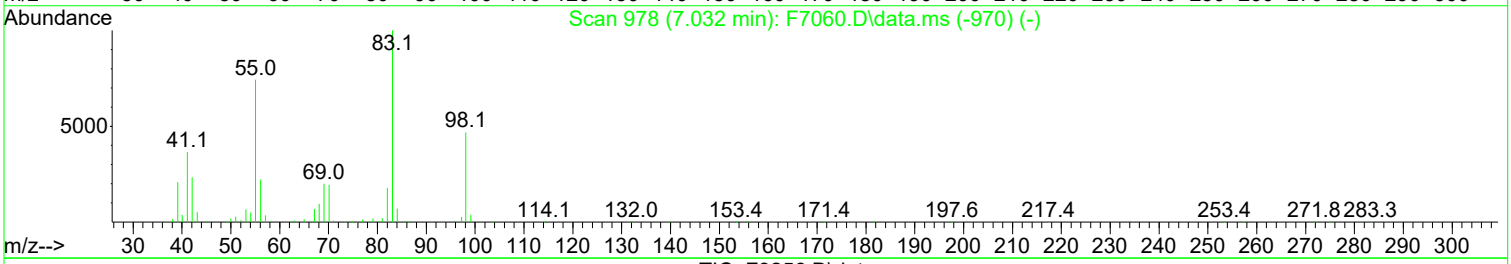
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8256.D\data.ms

(55) Methylcyclohexane (P)

7.045min (+ 0.012) 0.20 ug/L

response 655

Ion	Exp%	Act%
55.10	100.00	100.00
83.10	134.10	127.70
98.10	62.90	80.94
0.00	0.00	0.00

Manual Integration:

Before

02/21/24

Quantitation Report (Qedit)

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ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
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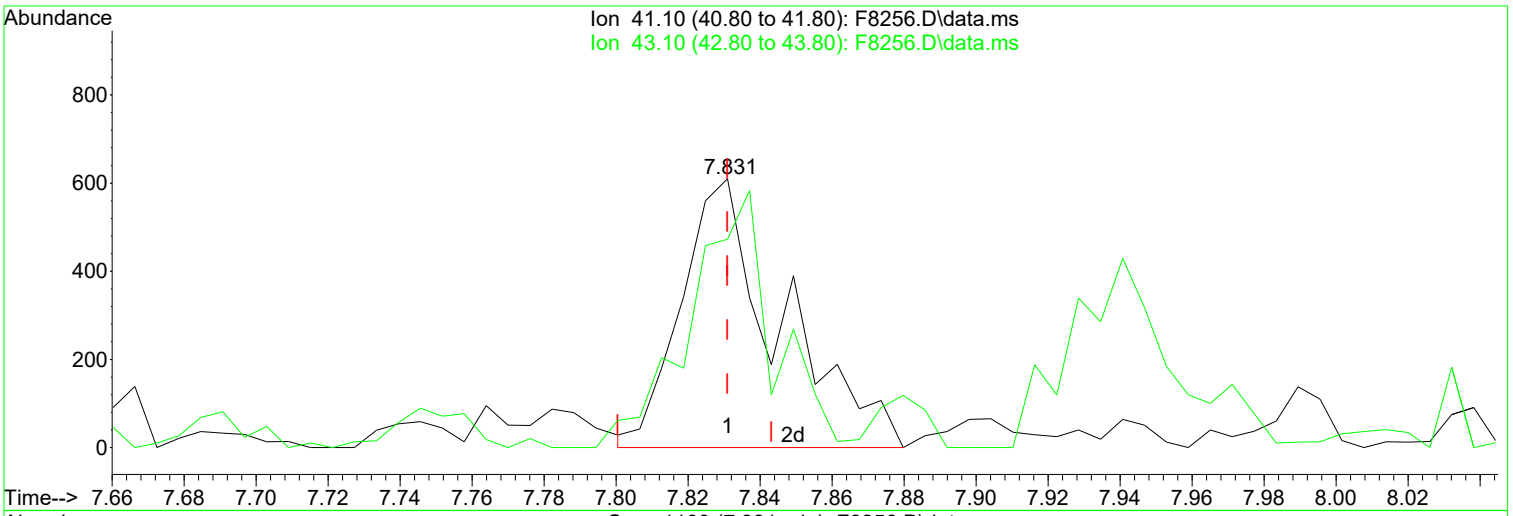
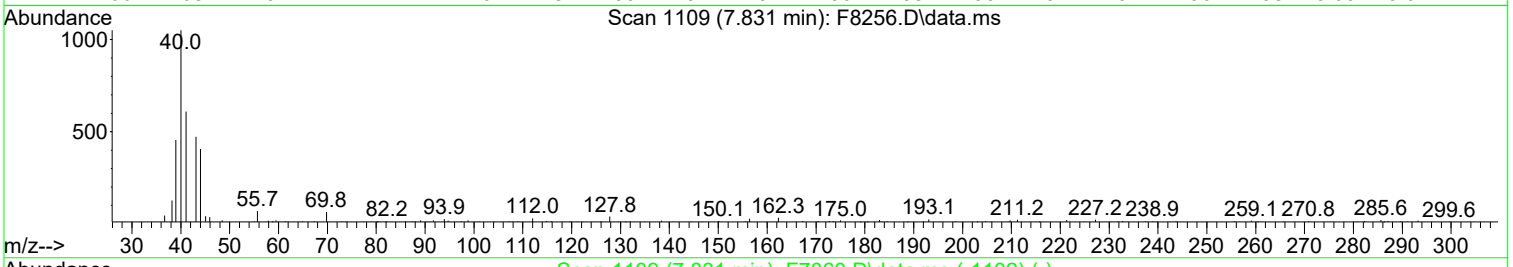
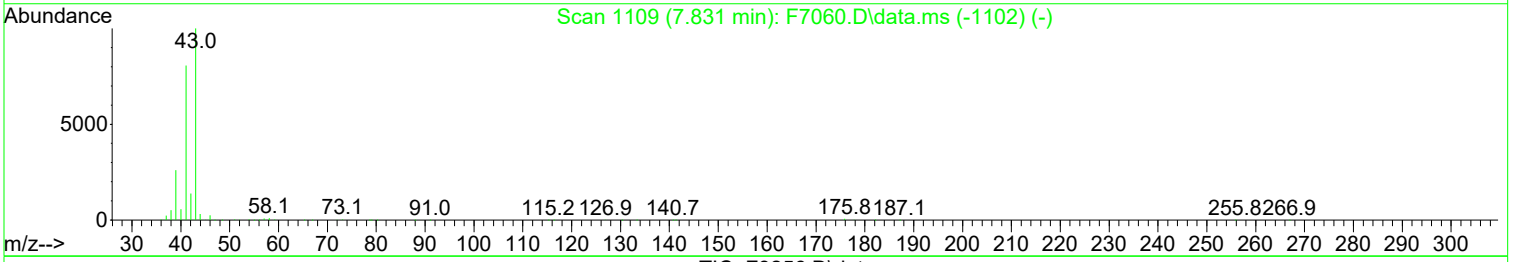
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8256.D\data.ms

(61) 2-Nitropropane

7.831min (-0.000) 1.40 ug/L m

response 1163

Ion	Exp%	Act%
41.10	100.00	100.00
43.10	123.80	77.54#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

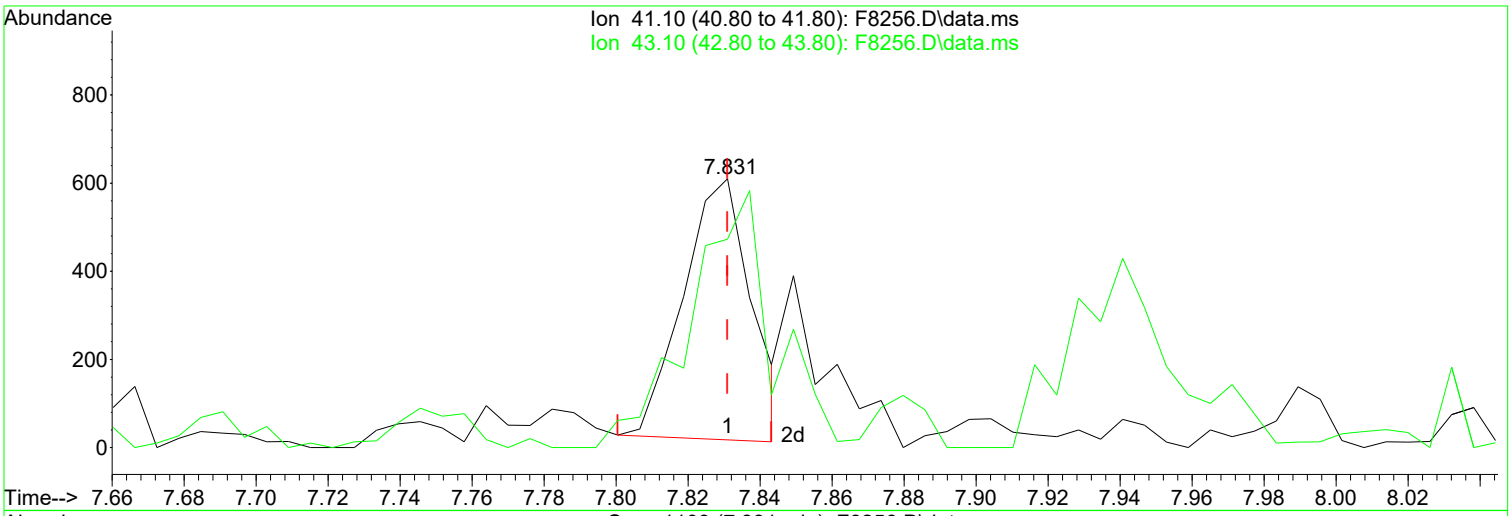
Poor integration.

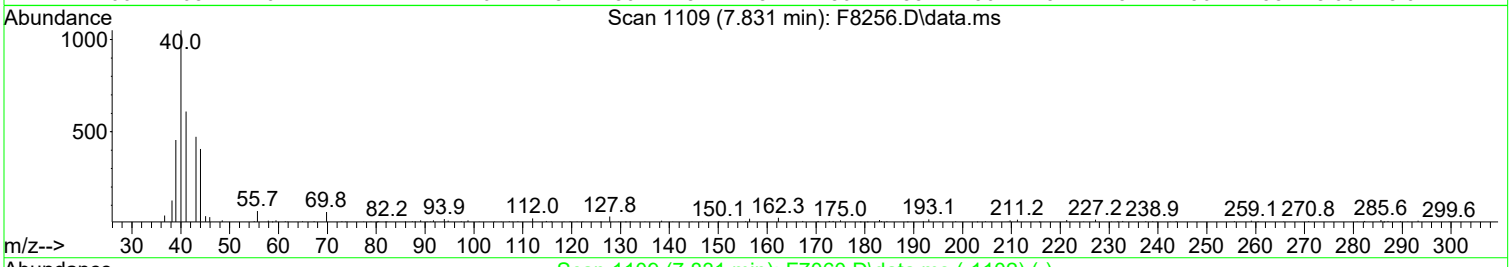
02/21/24

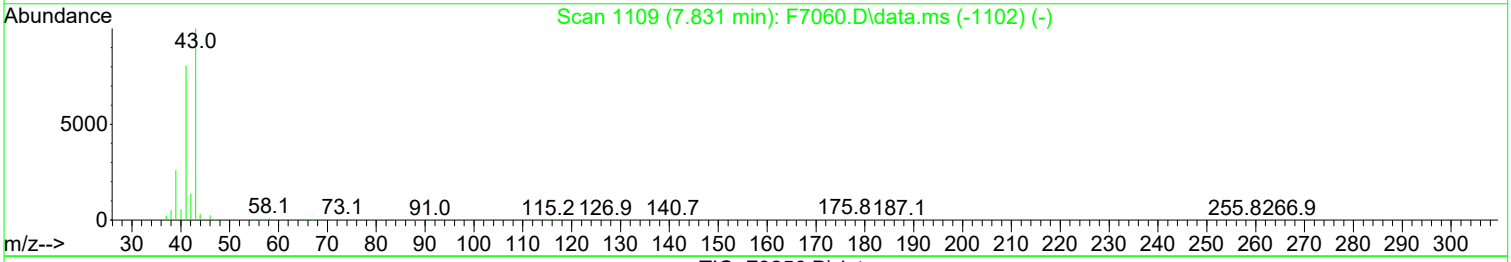
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8256.D\data.ms

(61) 2-Nitropropane

7.831min (-0.000) 0.93 ug/L

response 775

Ion	Exp%	Act%
41.10	100.00	100.00
43.10	123.80	77.54#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

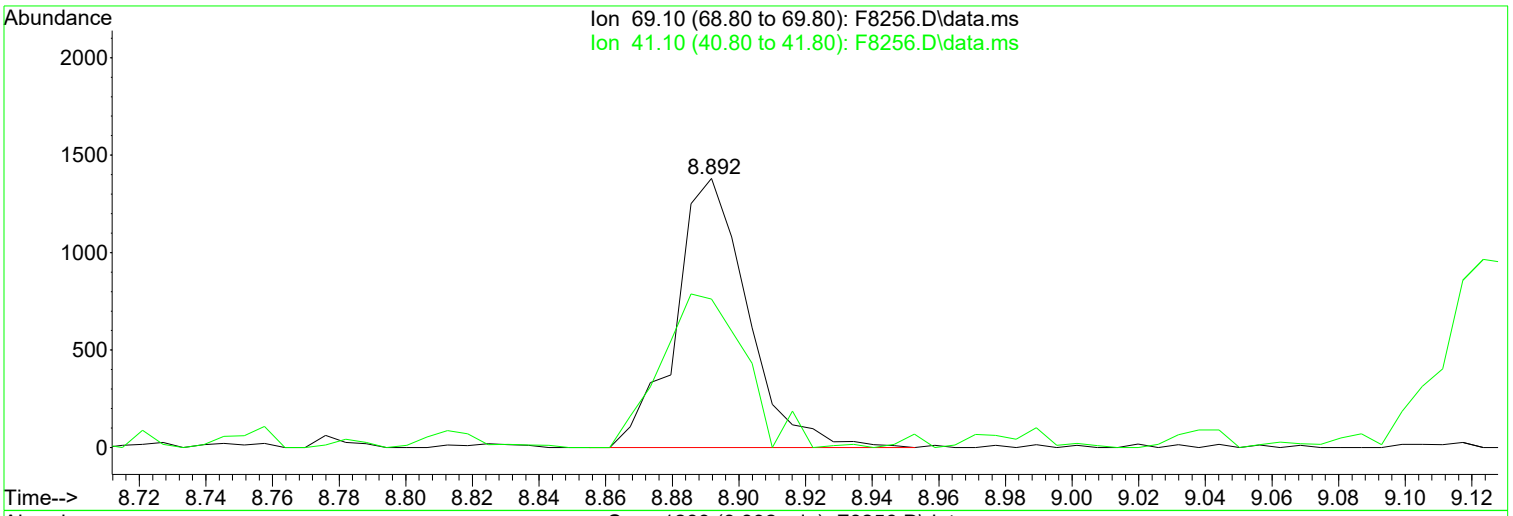
Before

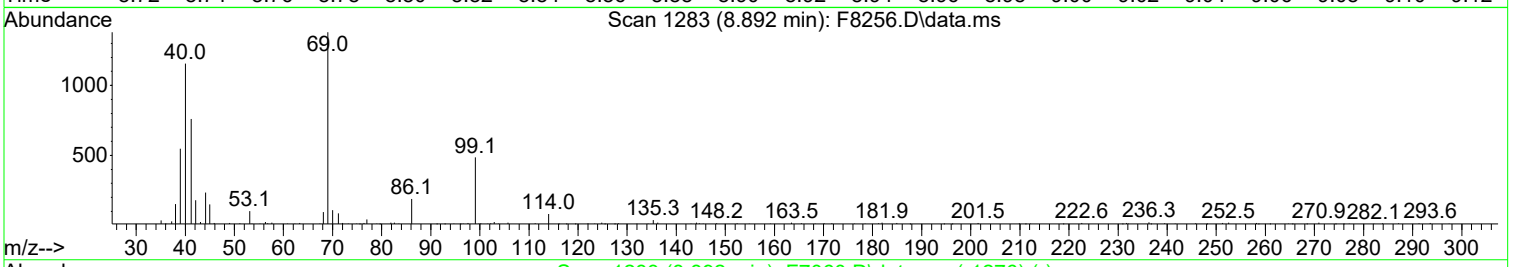
02/21/24

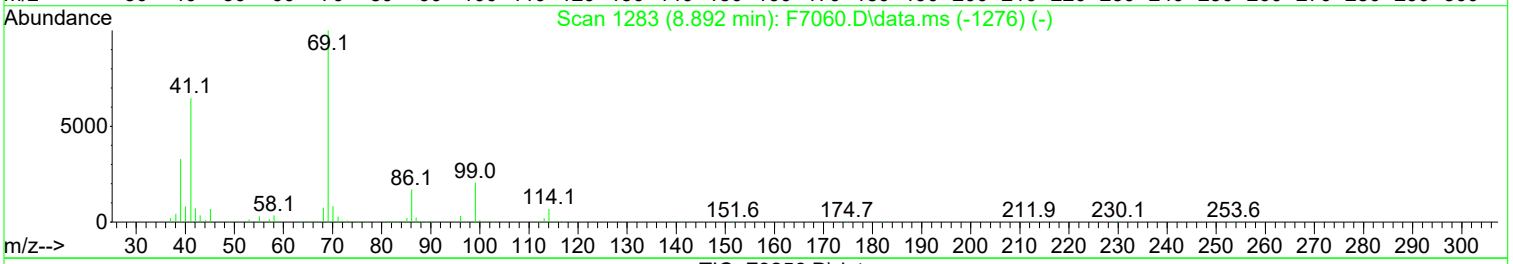
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8256.D\data.ms

(68) Ethyl Methacrylate

8.892min (-0.000) 0.48 ug/L m

response 2069

Ion	Exp%	Act%
69.10	100.00	100.00
41.10	64.90	55.14
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

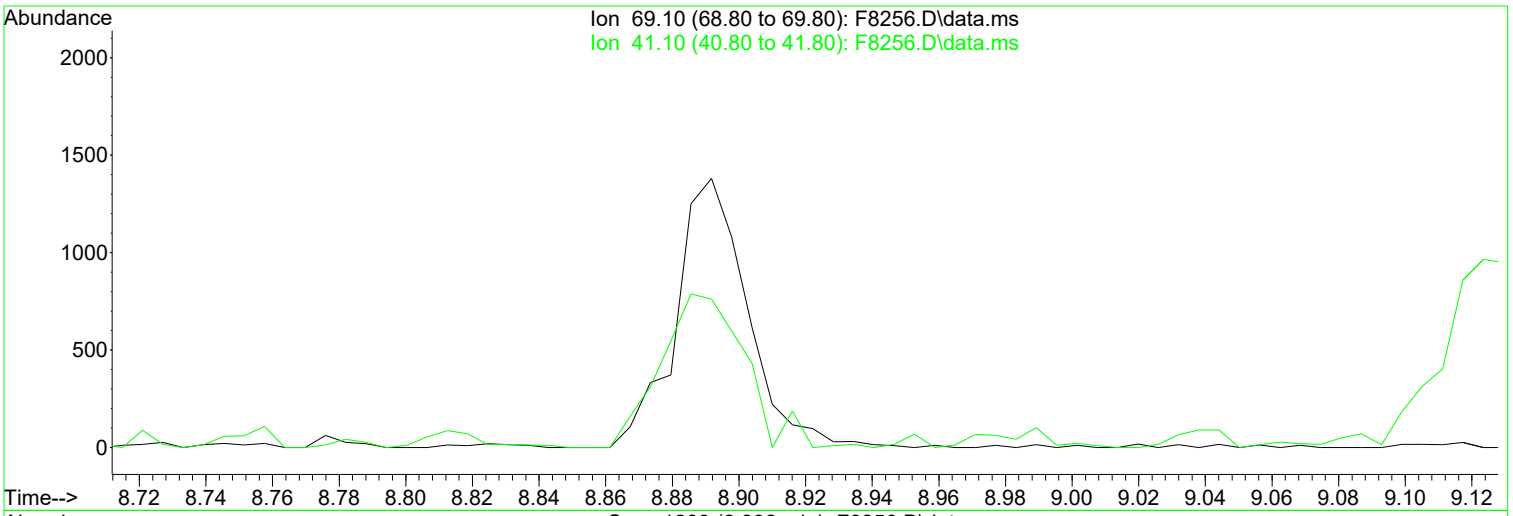
Poor integration.

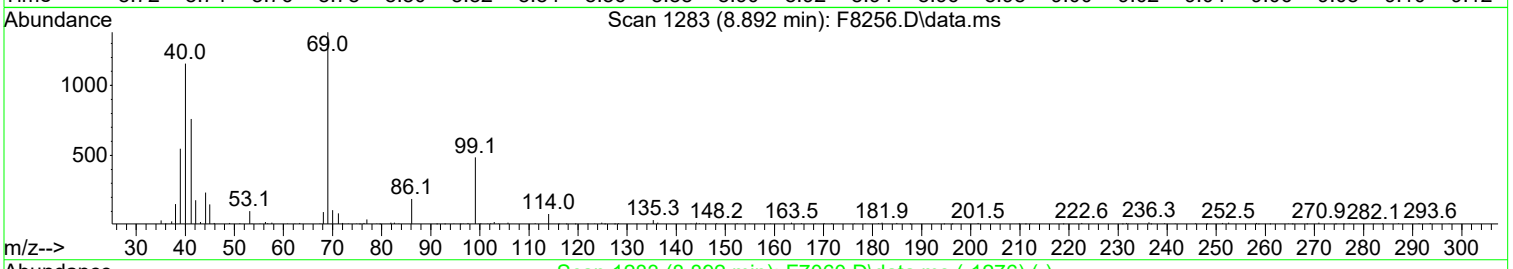
02/21/24

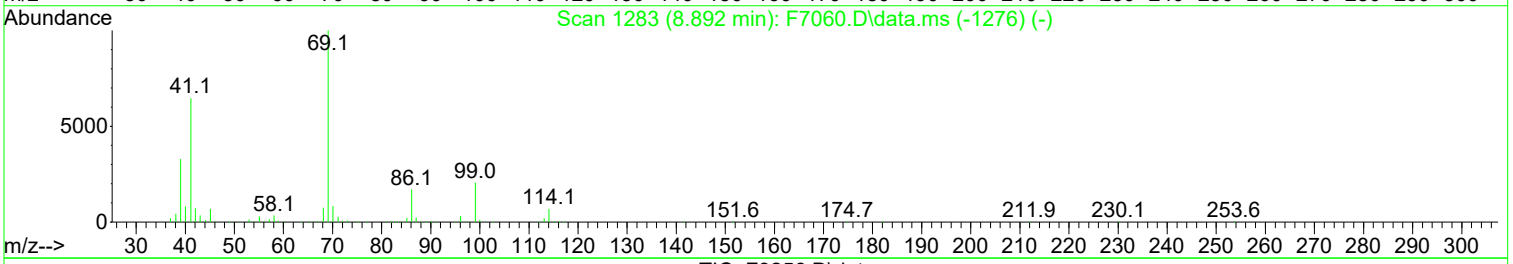
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8256.D\data.ms

(68) Ethyl Methacrylate

8.892min (-8.892) 0.00 ug/L

response 0

Ion	Exp%	Act%
69.10	100.00	0.00
41.10	64.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

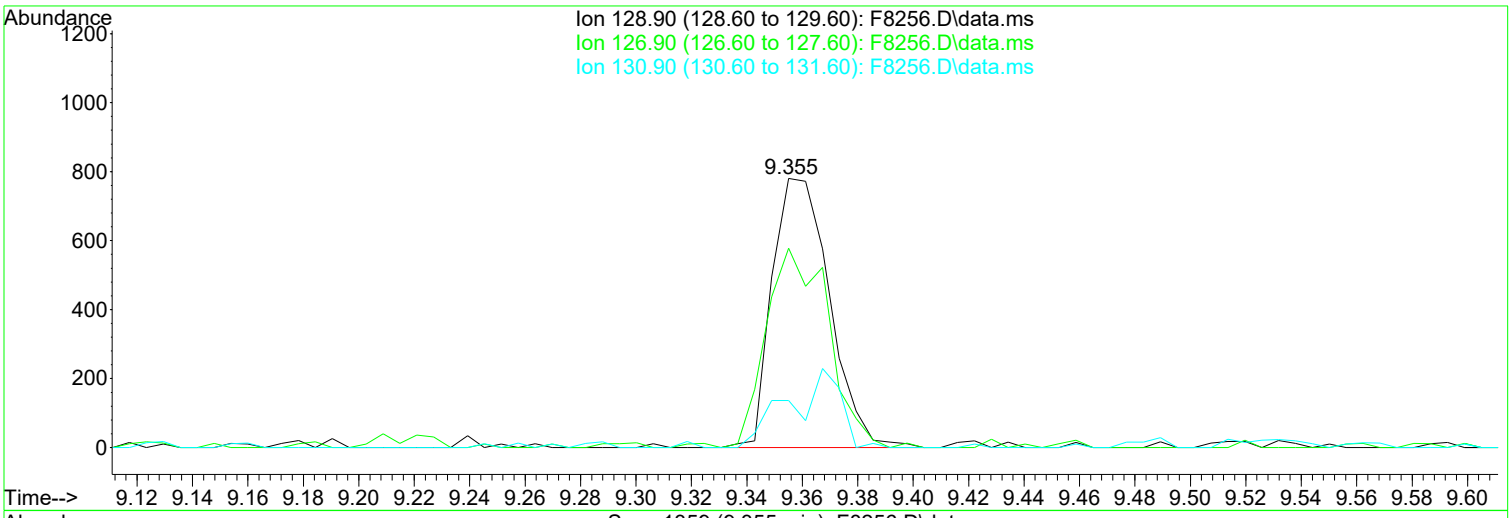
Before

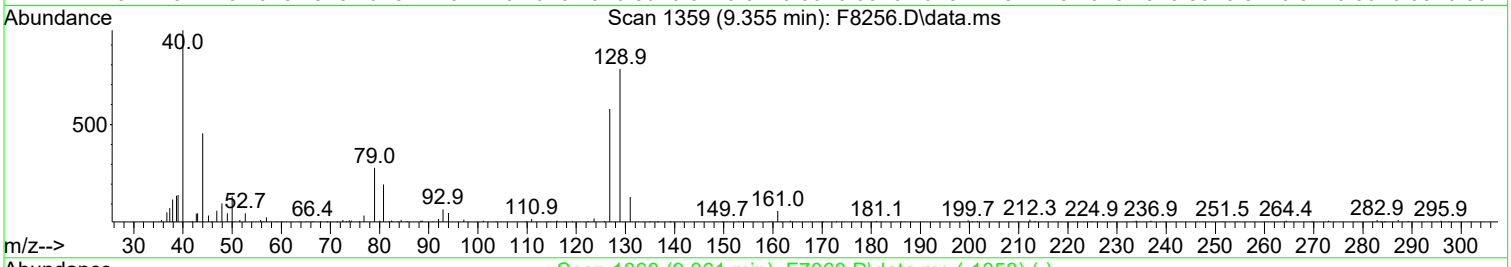
02/21/24

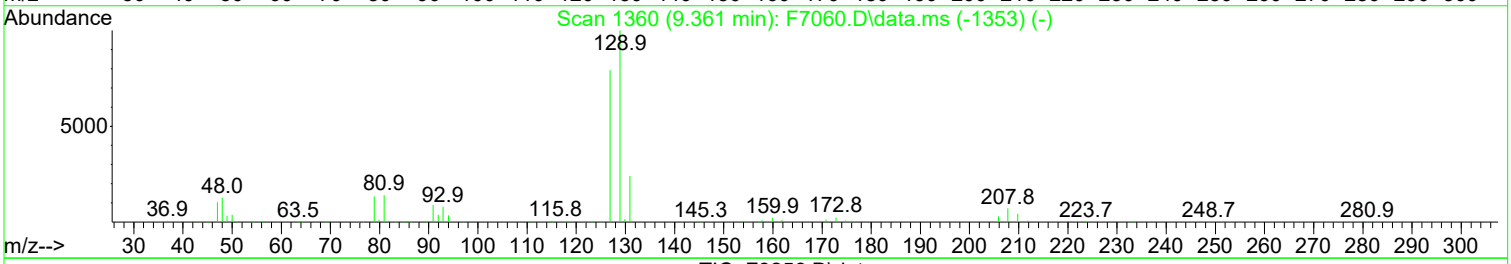
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8256.D\data.ms

(75) Dibromochloromethane (P)

9.355min (-0.006) 0.38 ug/L m

response 1121

Ion	Exp%	Act%
128.90	100.00	100.00
126.90	79.40	74.10
130.90	24.10	17.44
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

02/21/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
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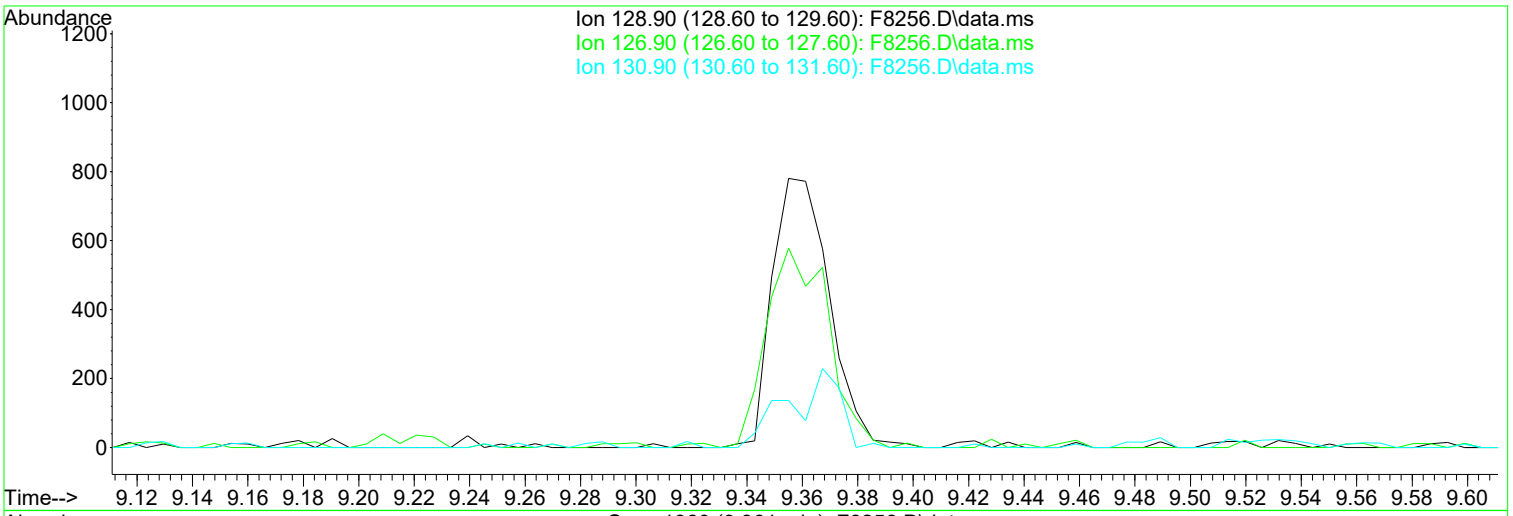
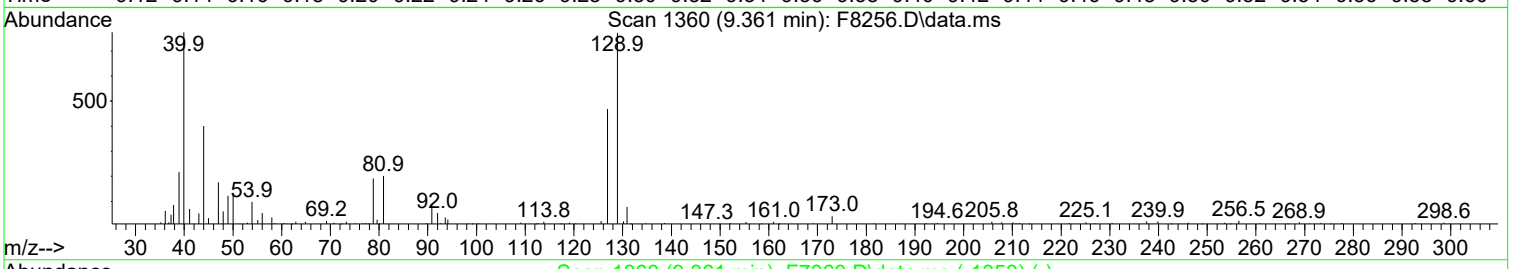
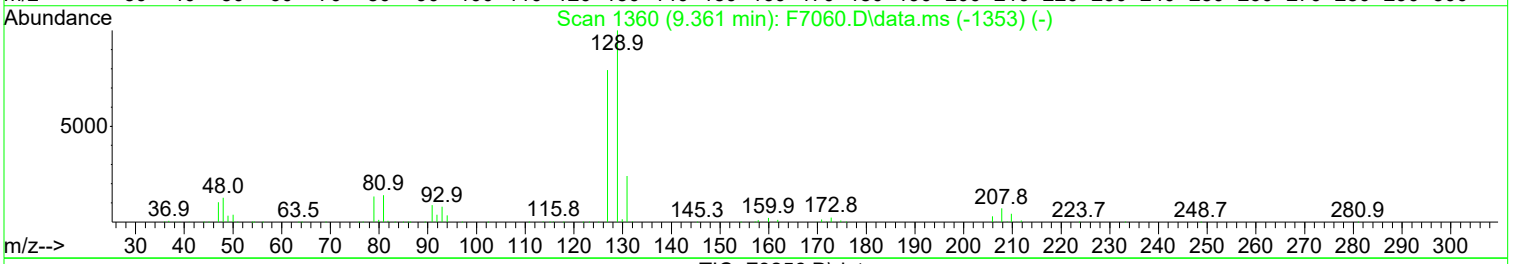
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8256.D\data.ms

(75) Dibromochloromethane (P)

9.361min (-9.361) 0.00 ug/L

response 0

Ion	Exp%	Act%
128.90	100.00	0.00
126.90	79.40	0.00#
130.90	24.10	0.00#
0.00	0.00	0.00

Manual Integration:

Before

02/21/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
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ALS Vial : 5 Sample Multiplier: 1

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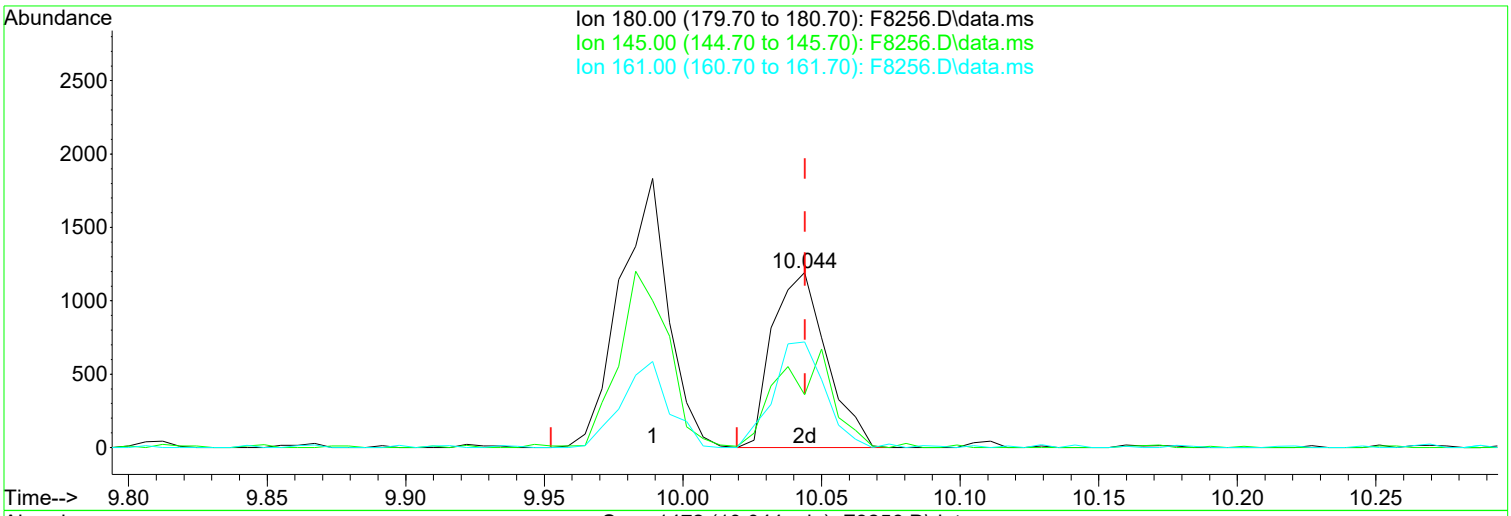
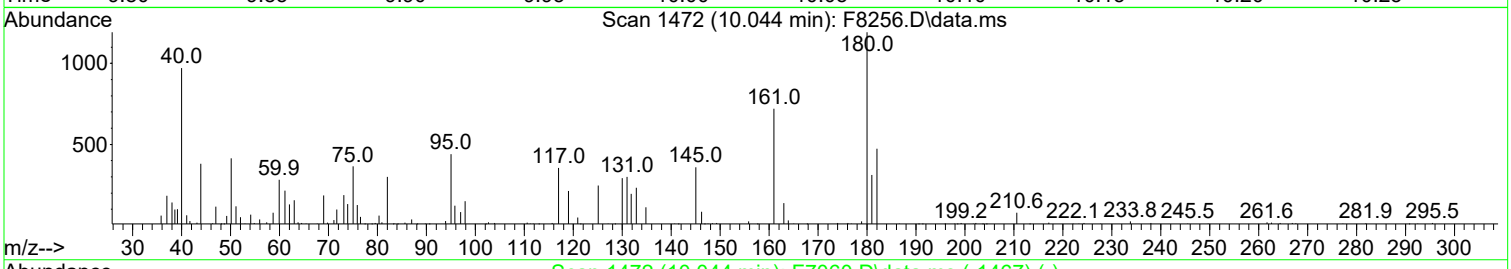
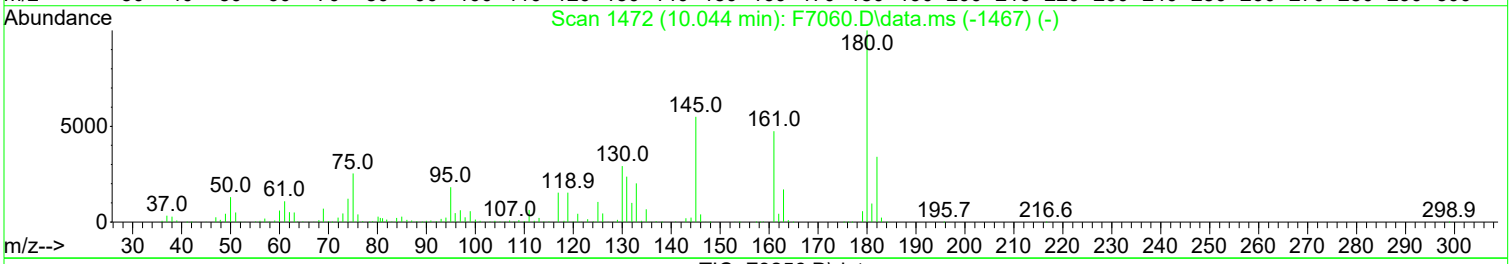
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8256.D\data.ms

(80) 4-Chlorobenzotrifluoride

10.044min (-0.000) 0.41 ug/L m

response 1619

Ion	Exp%	Act%
180.00	100.00	100.00
145.00	54.90	30.12#
161.00	47.60	60.40
0.00	0.00	0.00

Manual Integration:

After

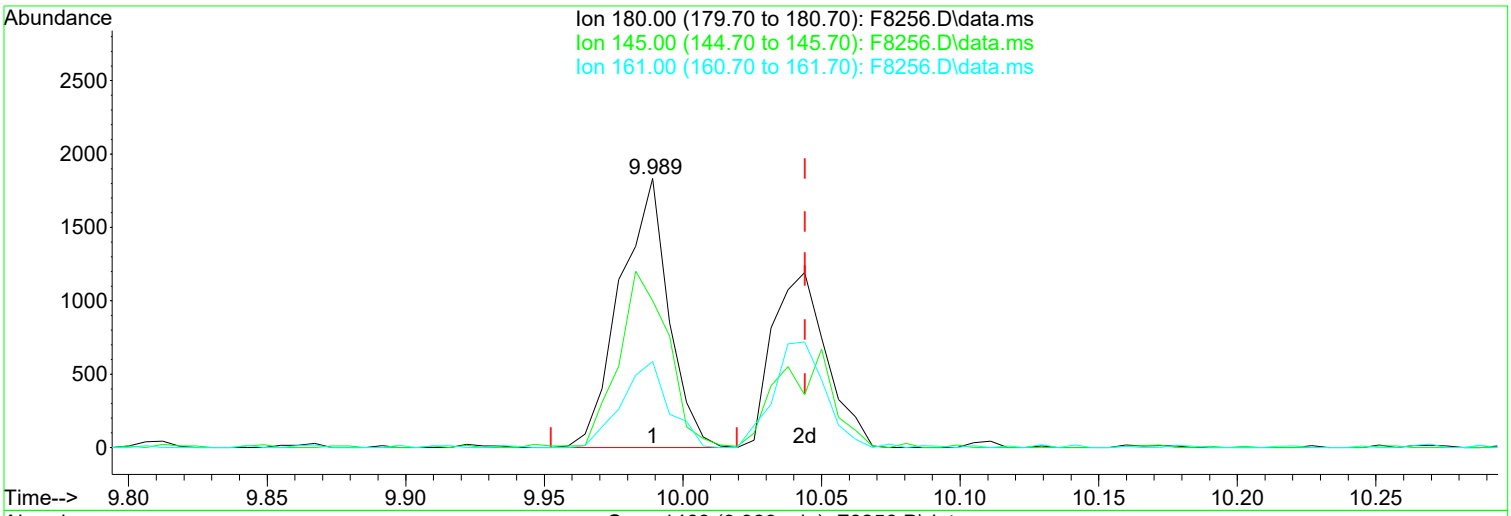
Wrong peak selected.

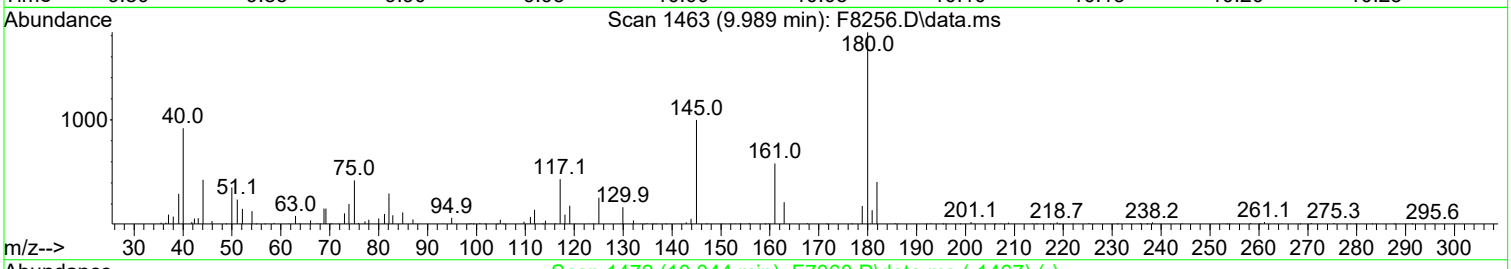
02/21/24

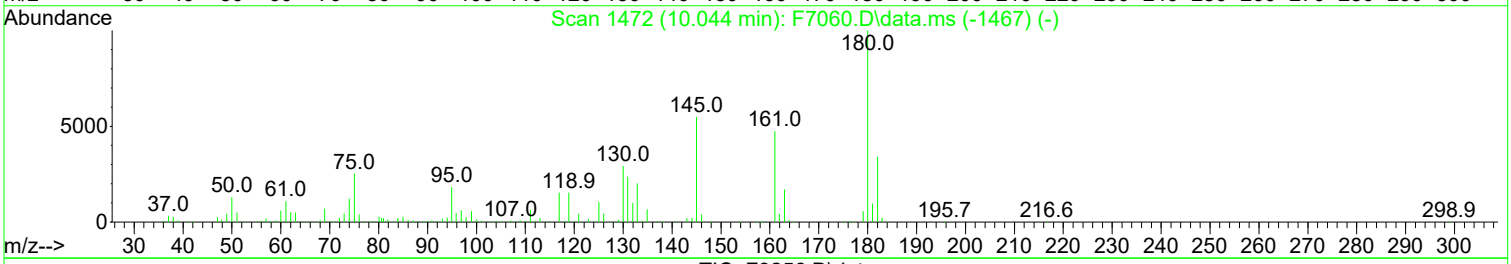
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8256.D\data.ms

(80) 4-Chlorobenzotrifluoride

9.989min (-0.055) 0.57 ug/L

response 2229

Ion	Exp%	Act%
180.00	100.00	100.00
145.00	54.90	54.56
161.00	47.60	31.97
0.00	0.00	0.00

Manual Integration:

Before

02/21/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.356	168	310792	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.484	114	501269	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.934	117	464223	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	12.037	152	227720	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.222	113	37092	12.03	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 24.06%#				
48) surr1,1,2-dichloroetha...	5.770	65	51217	13.16	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 26.32%#				
65) SURR3,Toluene-d8	8.367	98	147326	12.10	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 24.20%#				
70) SURR2,BFB	11.044	95	50124	10.89	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 21.78%#				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.155	51	1154m	0.429	ug/L		
3) Dichlorodifluoromethane	1.119	85	1746m	0.495	ug/L		
4) Chloromethane	1.277	50	2391m	0.787	ug/L		
5) Vinyl Chloride	1.326	62	2165m	0.664	ug/L		
6) Bromomethane	1.558	94	1837	1.027	ug/L		79
7) Chloroethane	1.631	64	1624	0.717	ug/L		72
8) Freon 21	1.783	67	3392	0.715	ug/L		97
9) Trichlorofluoromethane	1.820	101	2181	0.557	ug/L		75
10) Diethyl Ether	2.058	59	1873	0.767	ug/L	#	79
11) Freon 123a	2.064	67	1946	0.698	ug/L		90
12) Freon 123	2.119	83	1981	0.583	ug/L		91
13) Acrolein	2.174	56	1677	2.518	ug/L		95
14) 1,1-Diclethene	2.241	96	1138	0.499	ug/L	#	84
15) Freon 113	2.241	101	1309	0.587	ug/L	#	54
16) Acetone	2.308	43	1805	1.211	ug/L		81
17) 2-Propanol	2.448	45	2591	10.298	ug/L		70
18) Iodomethane	2.381	142	946	0.259	ug/L		82
19) Carbon Disulfide	2.436	76	3420	0.559	ug/L		99
20) Acetonitrile	2.576	41	1842m	3.047	ug/L		
21) Allyl Chloride	2.582	76	619m	0.471	ug/L		
22) Methyl Acetate	2.606	43	2528	0.721	ug/L		91
23) Methylene Chloride	2.704	84	1969	0.733	ug/L		88
24) TBA	2.850	59	4750	10.743	ug/L		91
25) Acrylonitrile	2.978	53	4199	3.069	ug/L		95
26) Methyl-t-Butyl Ether	2.990	73	4681	0.545	ug/L		98
27) trans-1,2-Dichloroethene	2.978	96	1109	0.444	ug/L		85
28) 1,1-Diclethane	3.503	63	2420	0.561	ug/L		86
29) Vinyl Acetate	3.576	86	180m	0.445	ug/L		
30) DIPE	3.606	45	4341	0.601	ug/L	#	75
31) 2-Chloro-1,3-Butadiene	3.594	53	2427	0.630	ug/L	#	62
32) ETBE	4.130	59	4229	0.563	ug/L		90
33) 2,2-Dichloropropane	4.307	77	1893	0.592	ug/L		73
34) cis-1,2-Dichloroethene	4.338	96	1705	0.581	ug/L		92
35) 2-Butanone	4.429	43	1503	0.805	ug/L	#	56
36) Propionitrile	4.539	54	1733	2.968	ug/L		96
37) Bromochloromethane	4.740	130	1086m	0.556	ug/L		
38) Methacrylonitrile	4.771	67	848	0.555	ug/L		96
39) Tetrahydrofuran	4.862	42	1319m	1.123	ug/L		
40) Chloroform	4.917	83	2737m	0.602	ug/L		

1st FNJ 02/21/24
2nd WR 02/21/24

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) 1,1,1-Trichloroethane	5.191	97	1831m	0.506 ug/L		
42) TAME	6.075	73	3698	0.504 ug/L		96
44) Cyclohexane	5.252	41	2052m	0.929 ug/L		
46) Carbontetrachloride	5.472	117	1380	0.415 ug/L		95
47) 1,1-Dichloropropene	5.484	75	1700	0.464 ug/L		89
49) Benzene	5.825	78	5582m	0.512 ug/L		
50) 1,2-Dichloroethane	5.898	62	2667	0.629 ug/L		90
51) Iso-Butyl Alcohol	5.904	43	1517	8.016 ug/L		80
52) n-Heptane	6.301	43	1658	0.600 ug/L		84
53) 1-Butanol	6.910	56	2022m	16.590 ug/L		
54) Trichloroethene	6.819	130	1513	0.513 ug/L	#	71
55) Methylcyclohexane	7.026	55	1597m	0.495 ug/L		
56) 1,2-Diclpropane	7.118	63	1685	0.624 ug/L		95
57) Dibromomethane	7.270	93	1179	0.599 ug/L	#	82
58) 1,4-Dioxane	7.355	88	857	12.571 ug/L	#	65
59) Methyl Methacrylate	7.362	69	1485	0.600 ug/L		85
60) Bromodichloromethane	7.508	83	1751	0.489 ug/L		85
61) 2-Nitropropane	7.831	41	1163m	1.400 ug/L		
62) 2-Chloroethylvinyl Ether	7.941	63	746	0.452 ug/L		80
63) cis-1,3-Dichloropropene	8.075	75	1671	0.394 ug/L		84
64) 4-Methyl-2-pentanone	8.300	43	2118	0.570 ug/L		81
66) Toluene	8.447	91	5662	0.472 ug/L		96
67) trans-1,3-Dichloropropene	8.752	75	1600	0.420 ug/L		84
68) Ethyl Methacrylate	8.892	69	2069m	0.482 ug/L		
69) 1,1,2-Trichloroethane	8.947	97	1343	0.454 ug/L	#	77
72) Tetrachloroethene	9.062	164	1015	0.437 ug/L	#	72
73) 2-Hexanone	9.264	43	1531	0.553 ug/L		90
74) 1,3-Dichloropropane	9.123	76	2625	0.534 ug/L		92
75) Dibromochloromethane	9.355	129	1121m	0.383 ug/L		
76) N-Butyl Acetate	9.410	43	2580	0.525 ug/L		82
77) 1,2-Dibromoethane	9.465	107	1572	0.522 ug/L	#	69
78) 3-Chlorobenzotrifluoride	9.989	180	2229	0.514 ug/L		91
79) Chlorobenzene	9.965	112	4324	0.535 ug/L		92
80) 4-Chlorobenzotrifluoride	10.044	180	1619m	0.415 ug/L		
81) 1,1,1,2-Tetrachloroethane	10.056	131	1019	0.381 ug/L	#	81
82) Ethylbenzene	10.087	106	1989	0.483 ug/L	#	80
83) (m+p)Xylene	10.202	106	4382	0.848 ug/L		89
84) o-Xylene	10.568	106	2422	0.477 ug/L	#	76
85) Styrene	10.587	104	3809	0.428 ug/L		90
86) Bromoform	10.751	173	728	0.356 ug/L		95
87) 2-Chlorobenzotrifluoride	10.830	180	1826	0.425 ug/L		85
88) Isopropylbenzene	10.910	105	5760	0.445 ug/L		90
89) Cyclohexanone	11.001	55	5781	7.414 ug/L		93
90) trans-1,4-Dichloro-2-B...	11.245	53	557	0.452 ug/L	#	47
92) 1,1,2,2-Tetrachloroethane	11.202	83	2000	0.507 ug/L		88
93) Bromobenzene	11.172	156	1492	0.454 ug/L	#	83
94) 1,2,3-Trichloropropane	11.227	110	673	0.482 ug/L	#	59
95) n-Propylbenzene	11.275	91	6681	0.480 ug/L		92
96) 2-Chlorotoluene	11.342	91	4551	0.531 ug/L		90
97) 3-Chlorotoluene	11.397	91	4337	0.484 ug/L		91
98) 4-Chlorotoluene	11.440	91	4706	0.480 ug/L		97
99) 1,3,5-Trimethylbenzene	11.434	105	4535	0.442 ug/L		97
100) tert-Butylbenzene	11.708	119	4074	0.470 ug/L		82
101) 1,2,4-Trimethylbenzene	11.751	105	4680	0.450 ug/L		91
102) 3,4-Dichlorobenzotrifl...	11.818	214	1296	0.406 ug/L	#	68
103) sec-Butylbenzene	11.891	105	6033	0.502 ug/L		93

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration

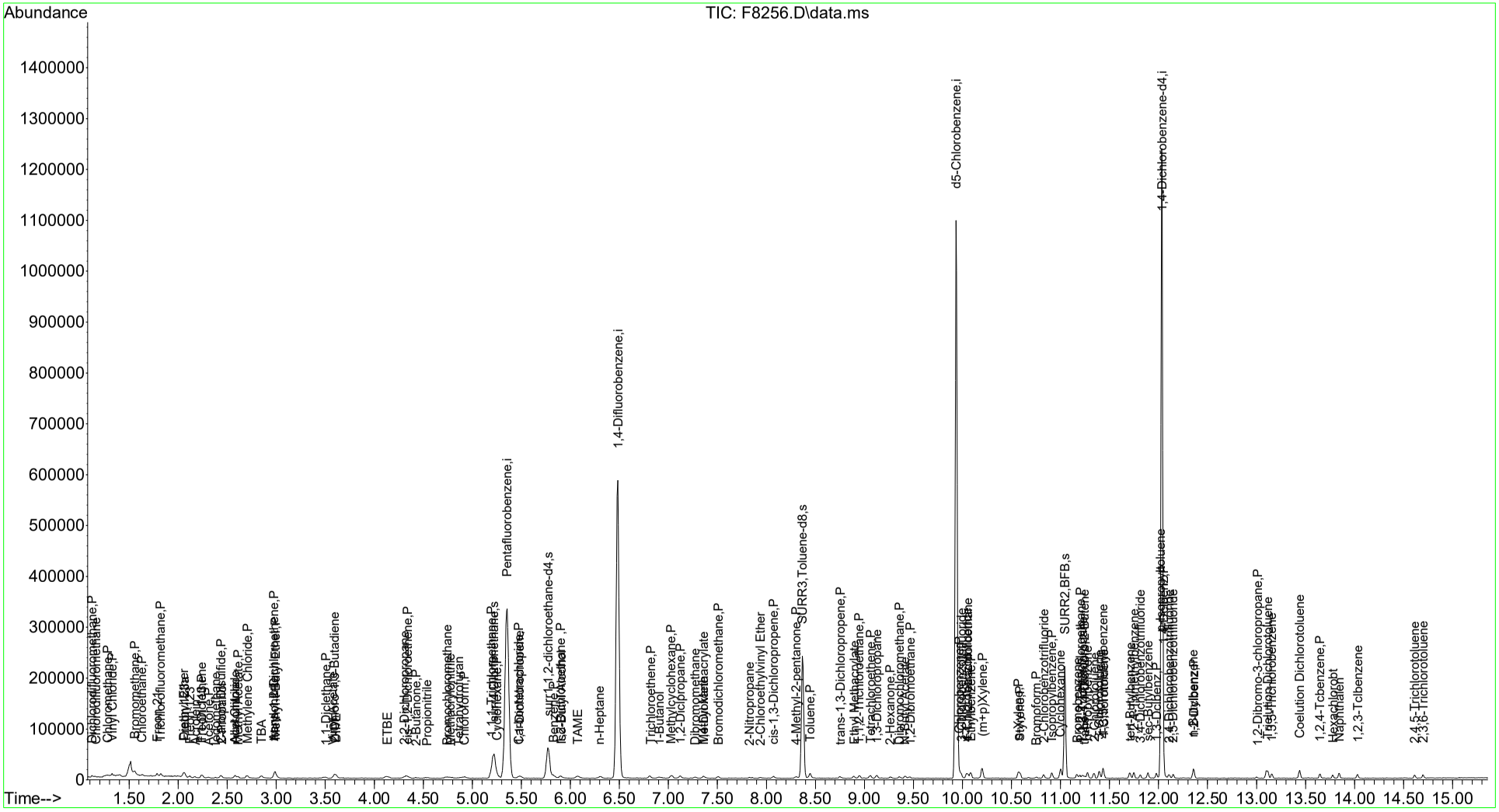
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
104) p-Isopropyltoluene	12.019	119	4364	0.403	ug/L		95
105) 1,3-Dclbenz	11.976	146	2829	0.463	ug/L		93
106) 1,4-Dclbenz	12.050	146	3731	0.594	ug/L	#	61
107) 2,4-Dichlorobenzotrifl...	12.111	214	1356	0.471	ug/L		81
108) 2,5-Dichlorobenzotrifl...	12.147	214	1574	0.482	ug/L		76
109) n-Butylbenzene	12.354	91	4041	0.437	ug/L		87
110) 1,2-Dclbenz	12.361	146	3114	0.513	ug/L		88
111) 1,2-Dibromo-3-chloropr...	13.007	157	290	0.286	ug/L	#	79
112) Trielution Dichlorotol...	13.110	125	6367	1.189	ug/L		93
113) 1,3,5-Trichlorobenzene	13.153	180	2187	0.482	ug/L	#	82
114) Coelution Dichlorotoluene	13.440	125	4742	0.807	ug/L		98
115) 1,2,4-Tcbenzene	13.647	180	2113	0.473	ug/L	#	78
116) Hexachlorobt	13.775	225	744	0.379	ug/L	#	77
117) Naphthalen	13.842	128	5333	0.375	ug/L		95
118) 1,2,3-Tclbenzene	14.031	180	1839	0.415	ug/L	#	75
119) 2,4,5-Trichlorotoluene	14.616	159	1331	0.402	ug/L		86
120) 2,3,6-Trichlorotoluene	14.695	159	1201	0.404	ug/L		78

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8256.D
Acq On : 20 Feb 2024 04:55 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 21 08:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration

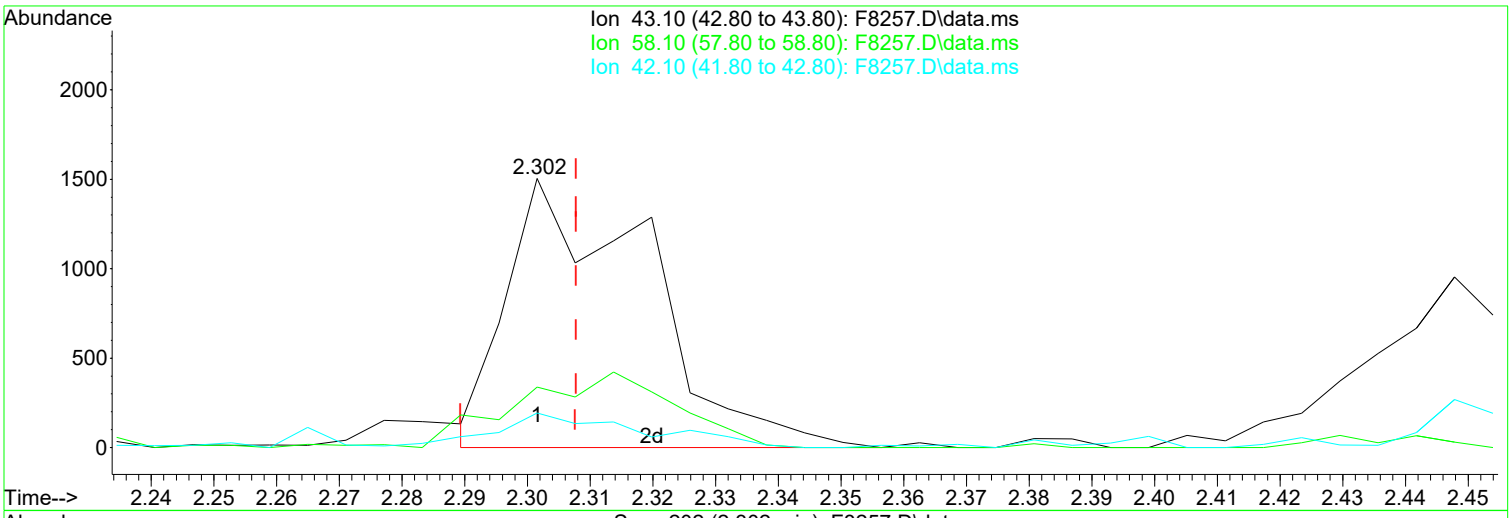


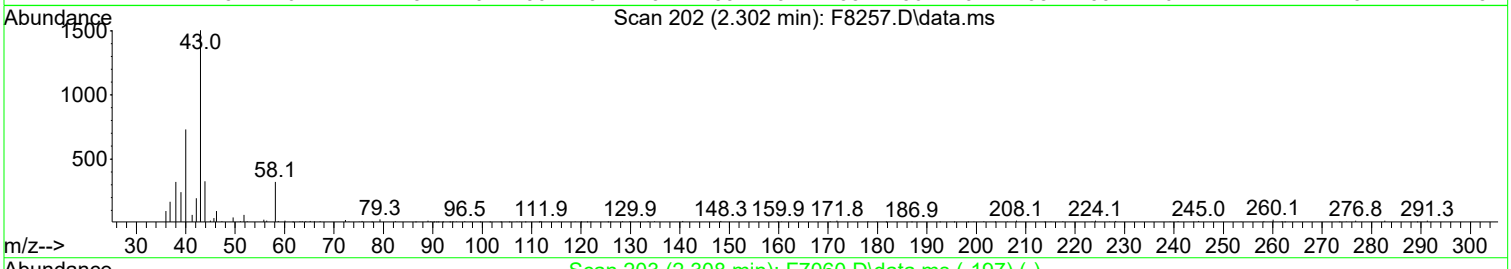
1st 02/21/24
2nd 02/21/24

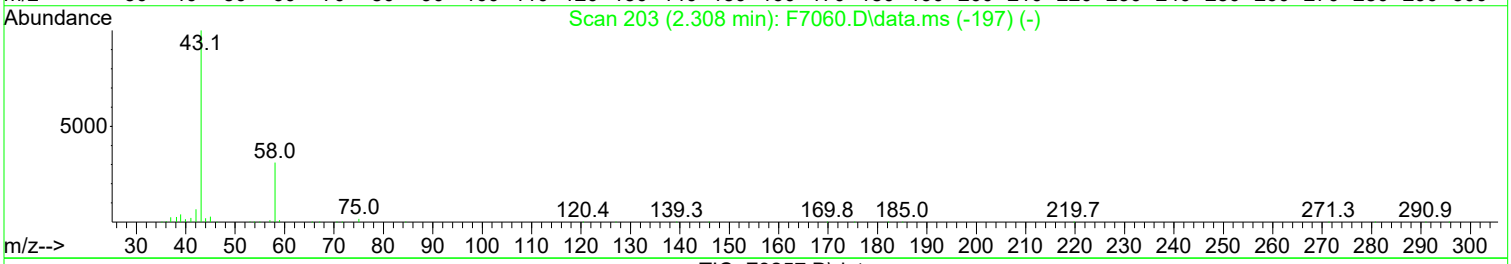
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8257.D
Acq On : 20 Feb 2024 05:18 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 09:00:55 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8257.D\data.ms

(16) Acetone (P)

2.302min (-0.006) 1.59 ug/L m

response 2364

Ion	Exp%	Act%
43.10	100.00	100.00
58.10	31.00	21.41
42.10	6.80	12.90
0.00	0.00	0.00

Manual Integration:

After

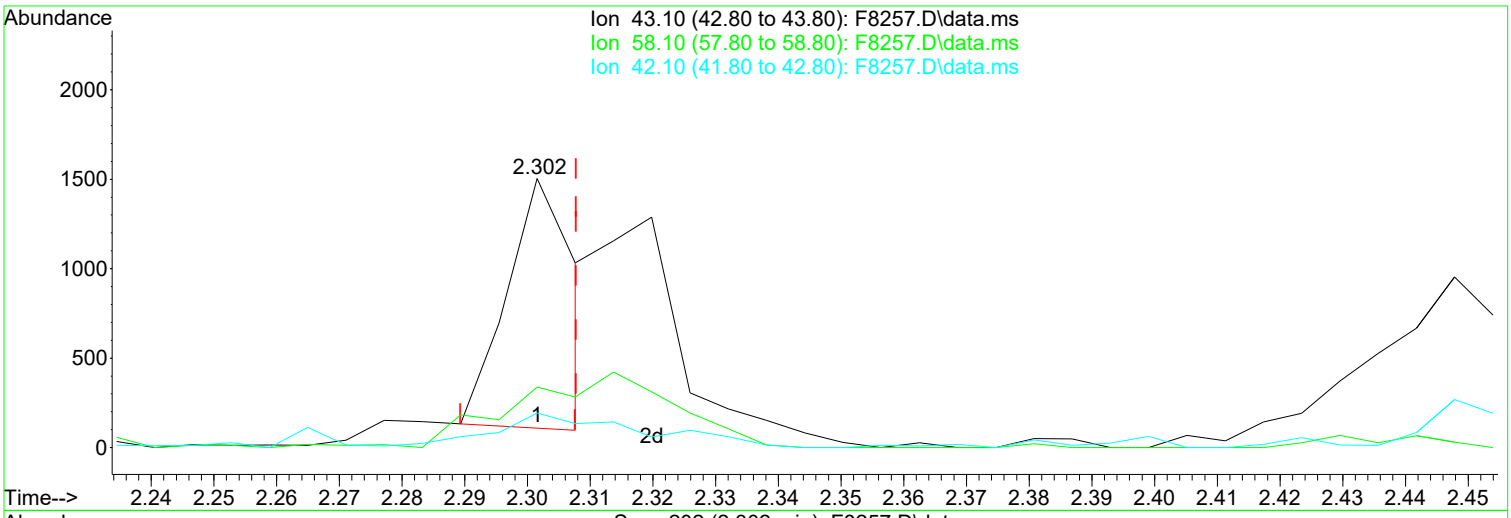
Poor integration.

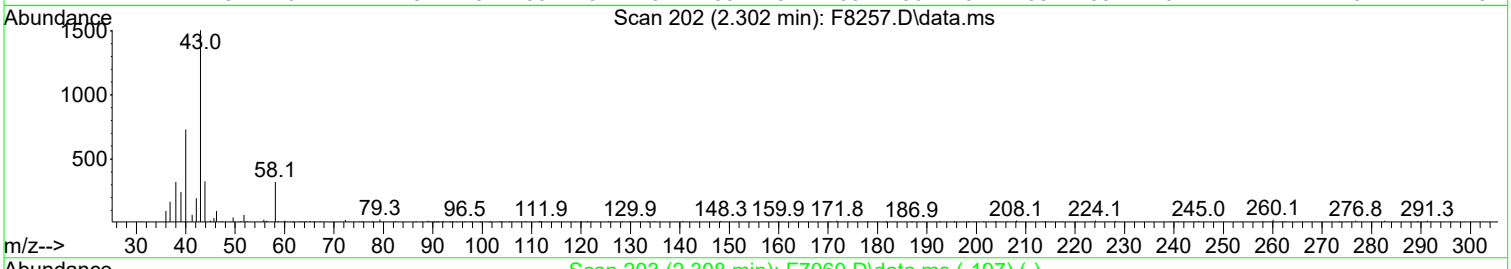
02/21/24

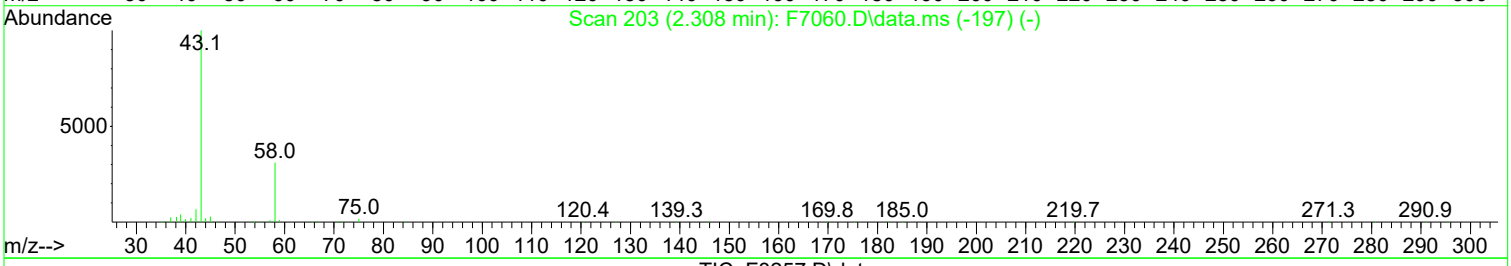
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8257.D
Acq On : 20 Feb 2024 05:18 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 09:00:55 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8257.D\data.ms

(16) Acetone (P)

2.302min (-0.006) 0.71 ug/L

response 1056

Ion	Exp%	Act%
43.10	100.00	100.00
58.10	31.00	22.54
42.10	6.80	12.90
0.00	0.00	0.00

Manual Integration:

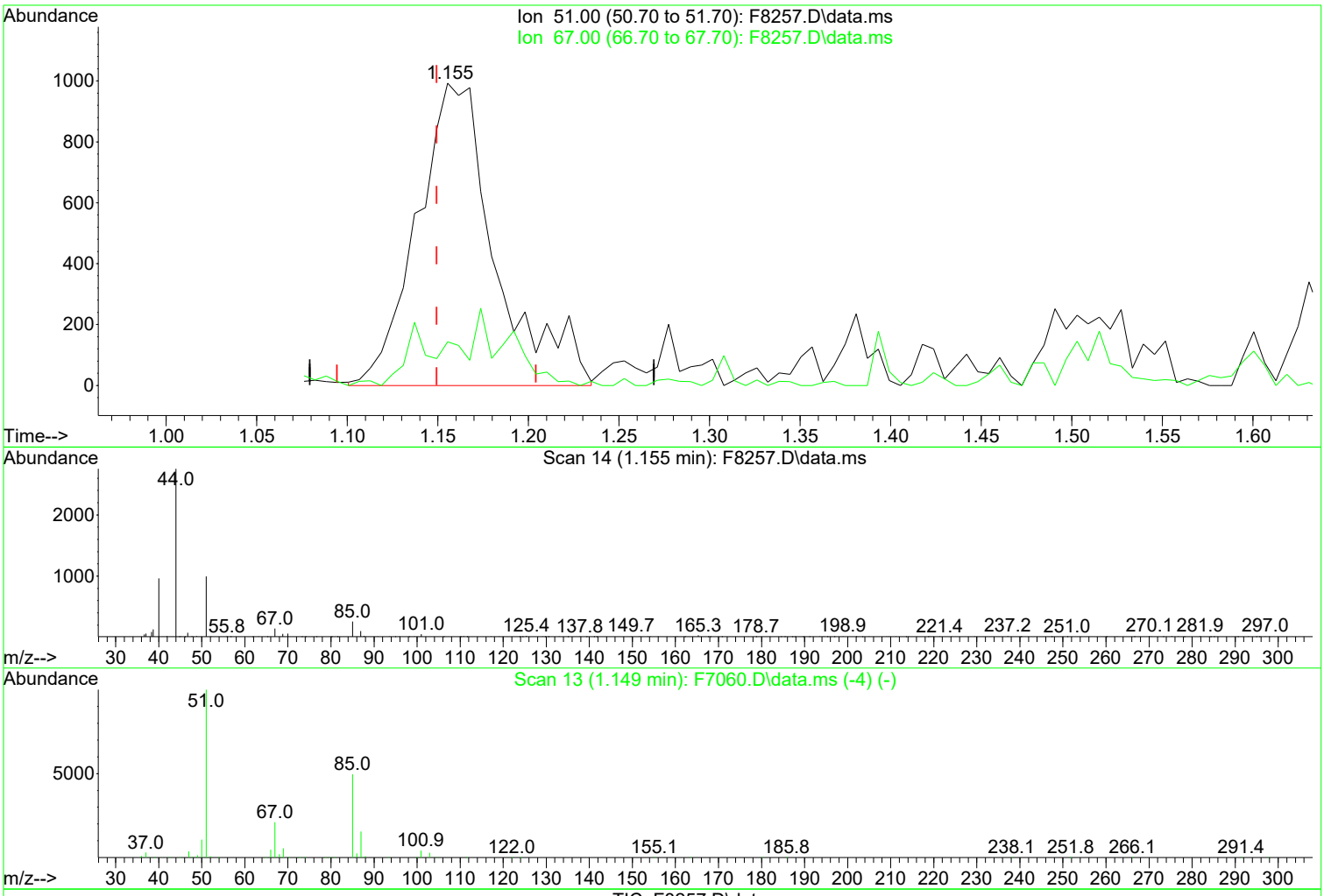
Before

02/21/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8257.D
Acq On : 20 Feb 2024 05:18 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 09:00:55 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration



TIC: F8257.D\data.ms

(2) Chlorodifluoromethane

1.155min (+ 0.006) 1.11 ug/L m

response 2989

Ion	Exp%	Act%
51.00	100.00	100.00
67.00	21.00	14.40
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

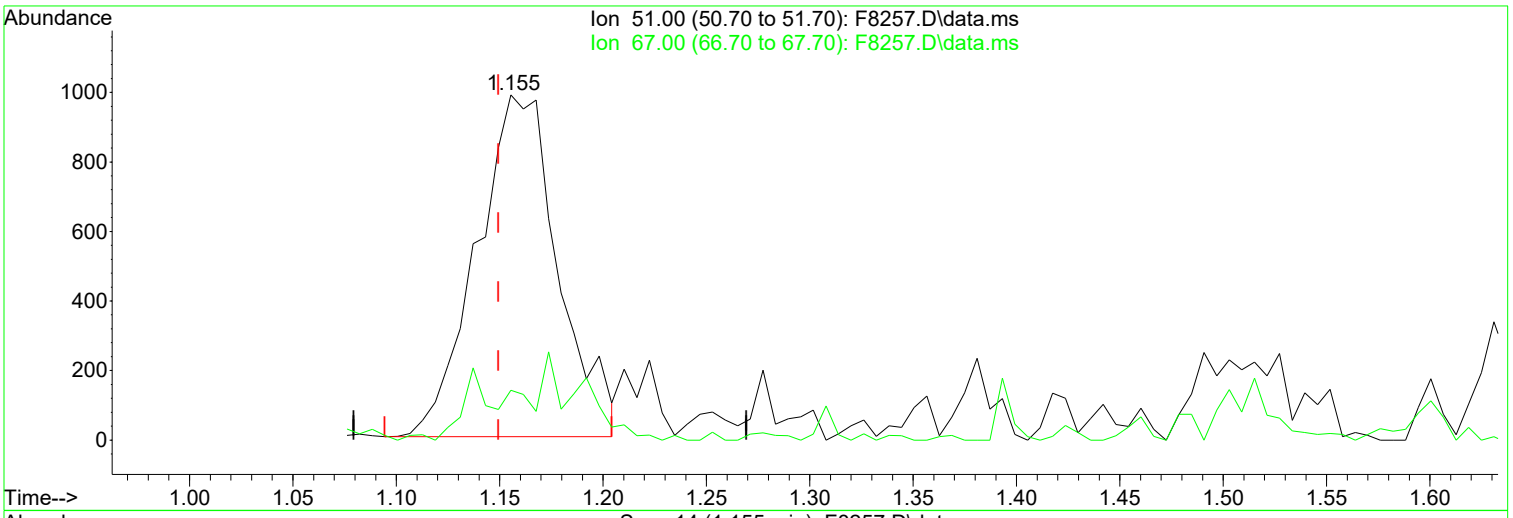
Poor integration.

02/21/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8257.D
Acq On : 20 Feb 2024 05:18 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 09:00:55 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration



TIC: F8257.D\data.ms

(2) Chlorodifluoromethane

1.155min (+ 0.006) 1.00 ug/L

response 2691

Ion	Exp%	Act%
51.00	100.00	100.00
67.00	21.00	14.40
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

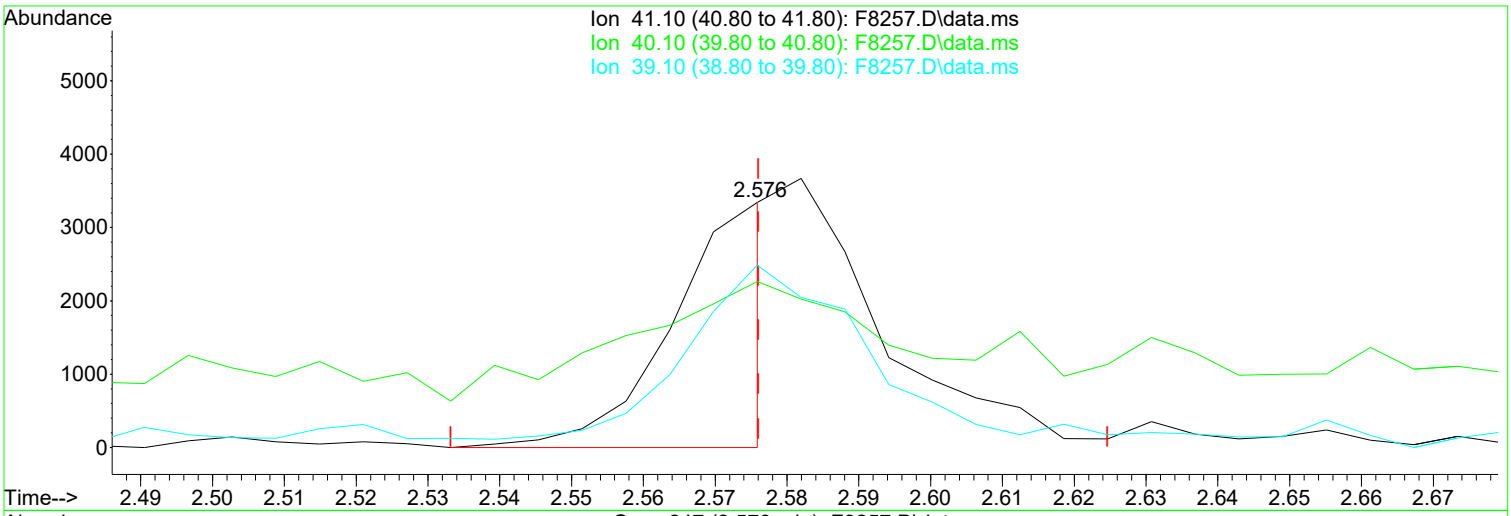
Before

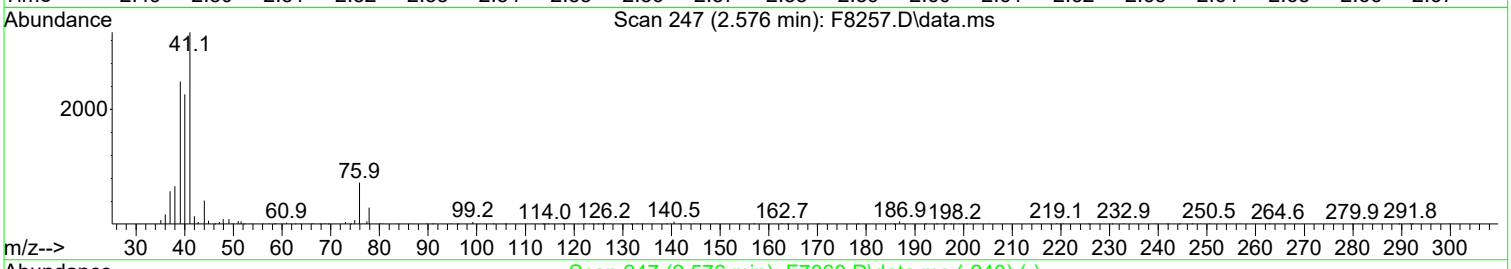
02/21/24

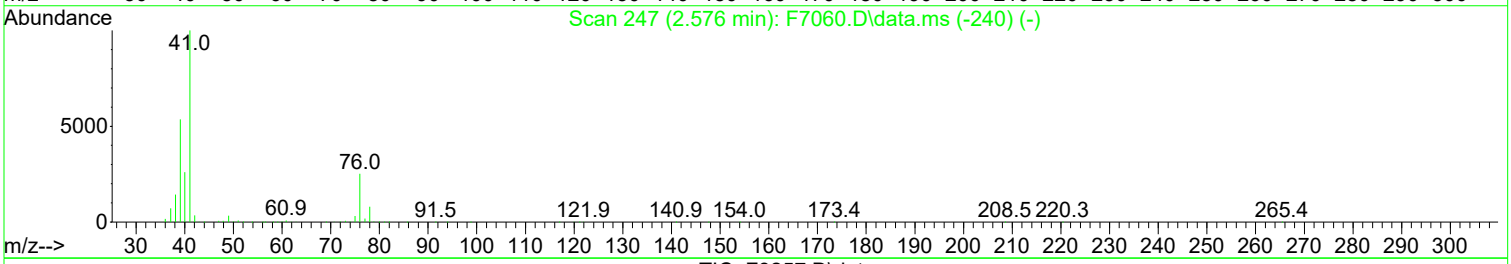
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8257.D
Acq On : 20 Feb 2024 05:18 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 09:00:55 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8257.D\data.ms

(20) Acetonitrile

2.576min (-0.000) 5.42 ug/L m

response 3269

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	26.20	67.67#
39.10	53.50	74.40#
0.00	0.00	0.00

Manual Integration:

After

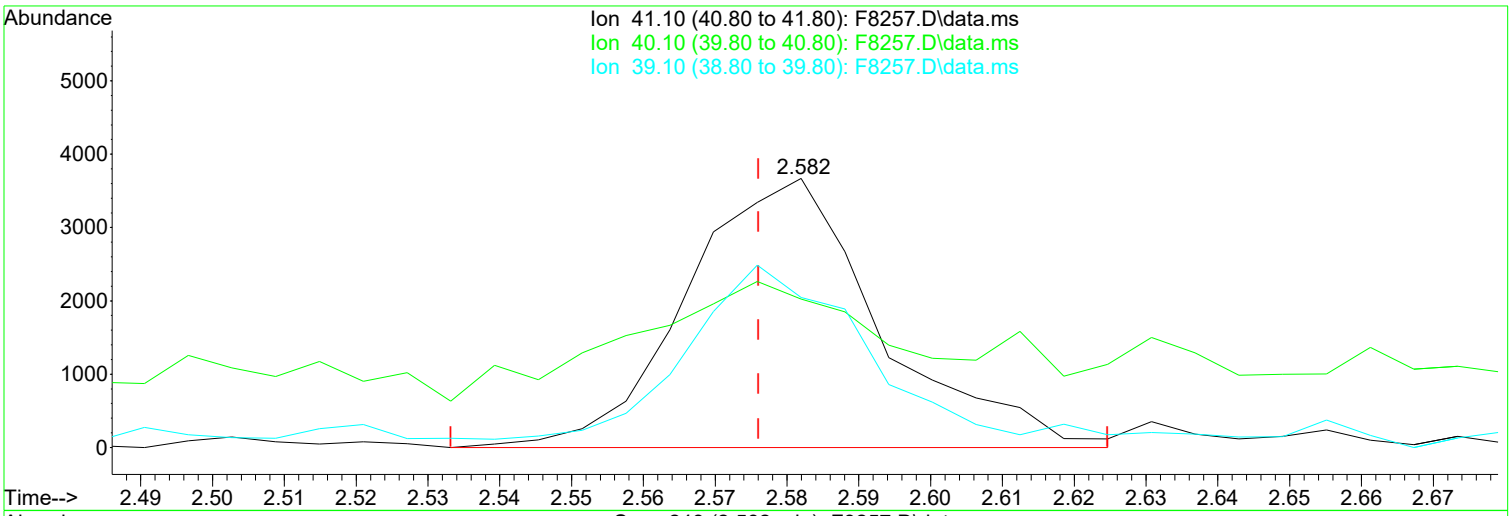
Poor integration.

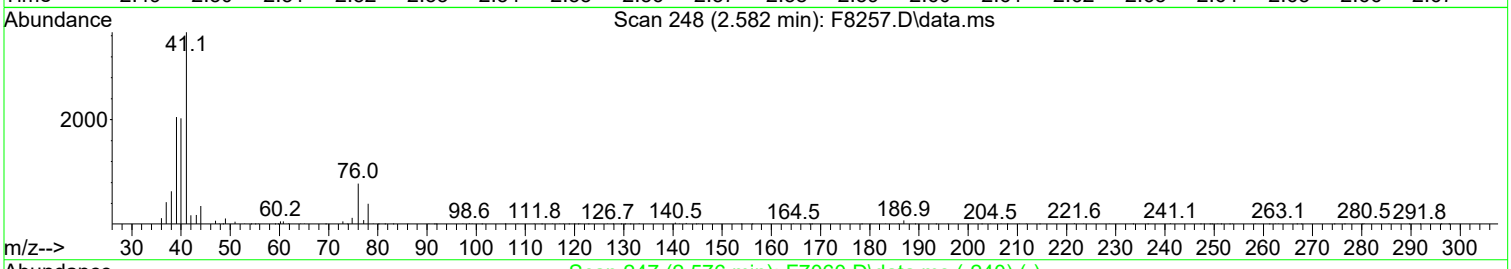
02/21/24

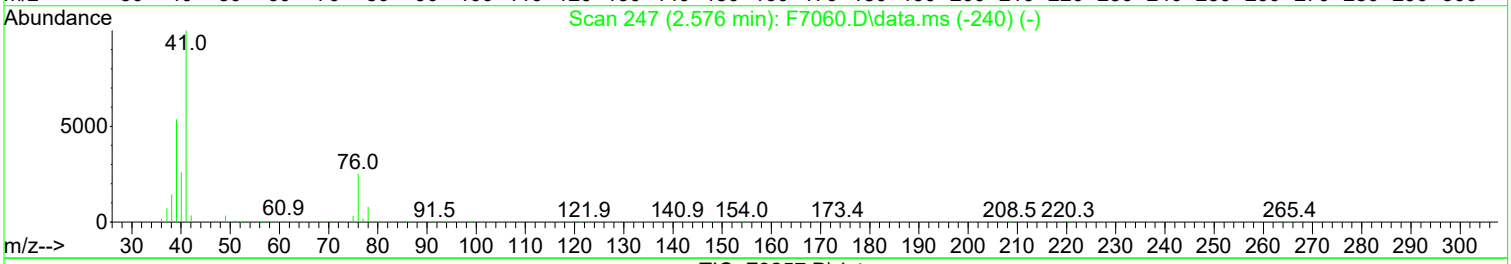
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8257.D
Acq On : 20 Feb 2024 05:18 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 09:00:55 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8257.D\data.ms

(20) Acetonitrile

2.582min (+ 0.006) 11.45 ug/L

response 6906

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	26.20	55.15#
39.10	53.50	55.81
0.00	0.00	0.00

Manual Integration:

Before

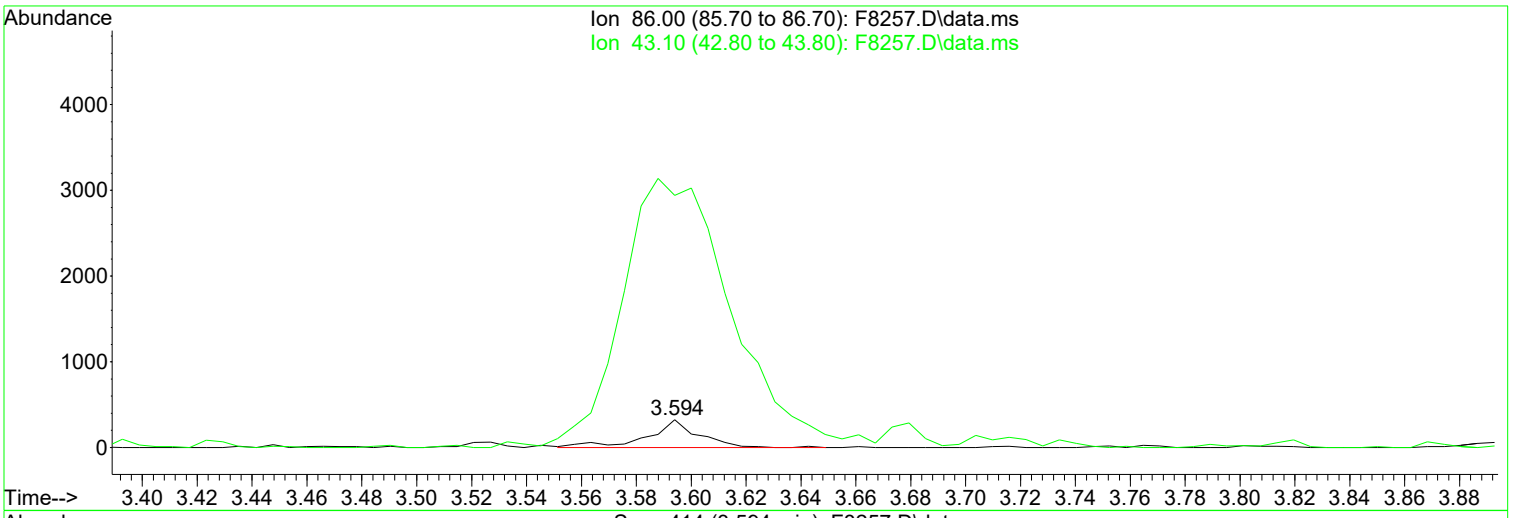
02/21/24

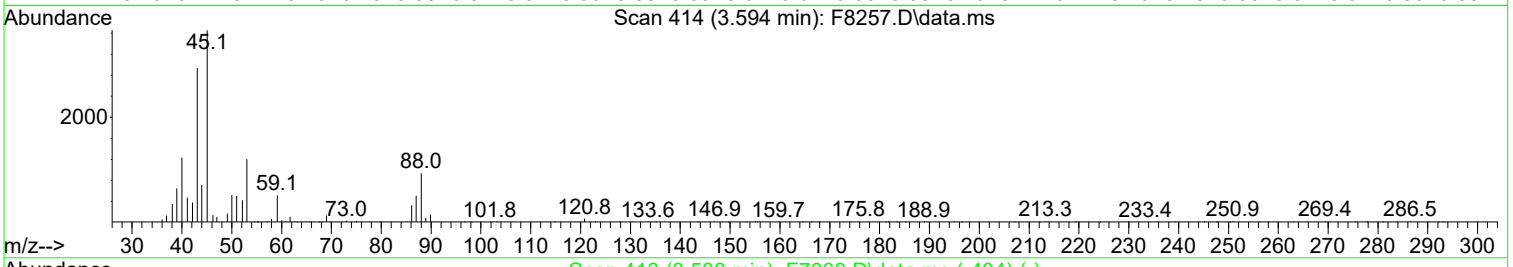
1st FN 02/21/24
2nd 02/21/24

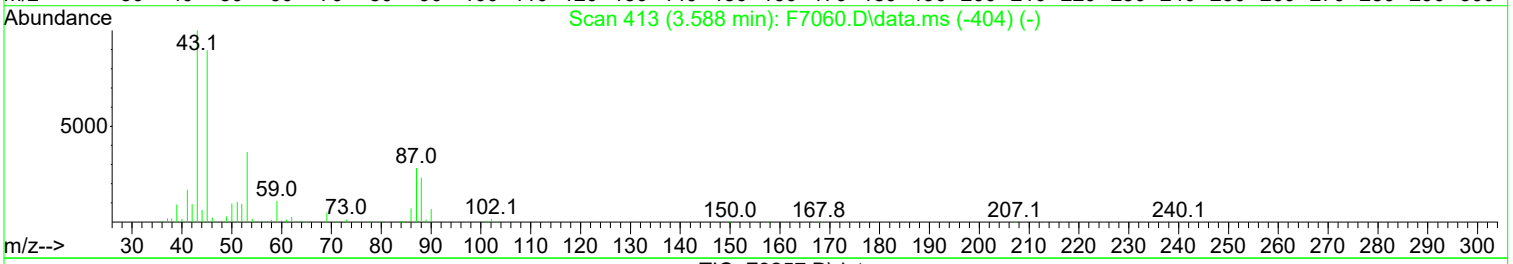
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8257.D
Acq On : 20 Feb 2024 05:18 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 09:00:55 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8257.D\data.ms

(29) Vinyl Acetate

3.594min (+ 0.006) 1.03 ug/L m

response 415

Ion	Exp%	Act%
86.00	100.00	100.00
43.10	1391.80	907.41#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

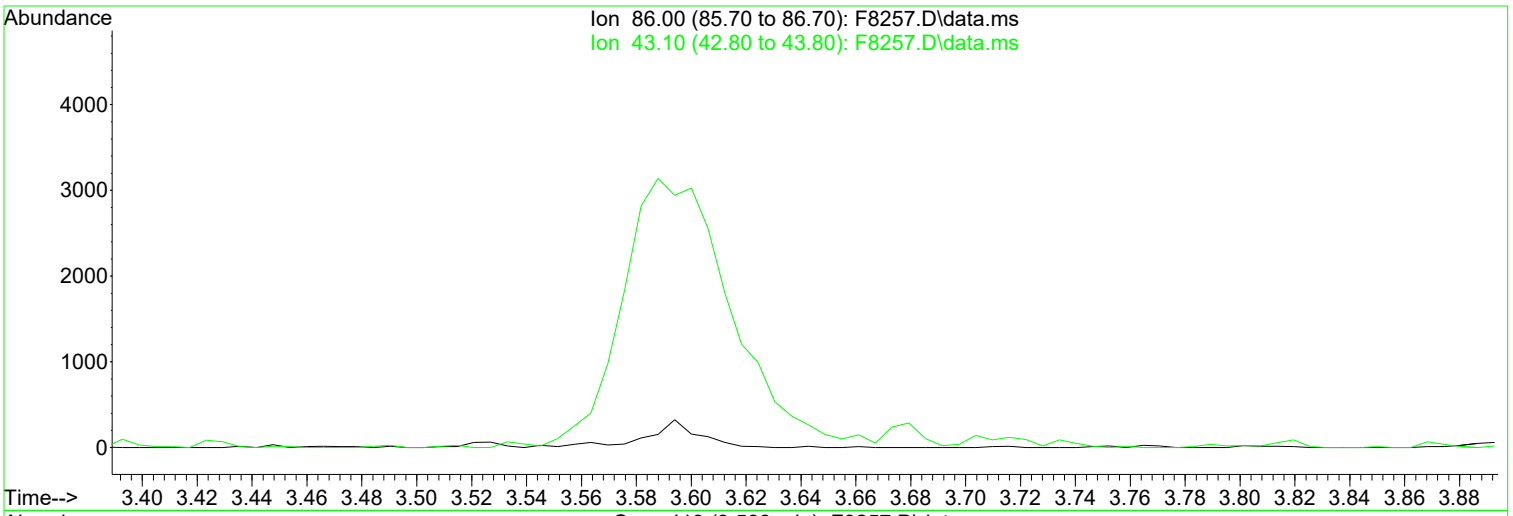
Poor integration.

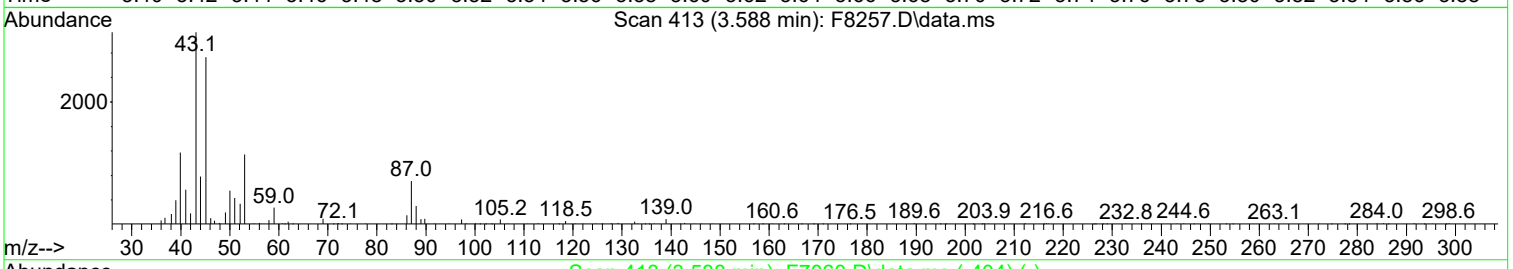
02/21/24

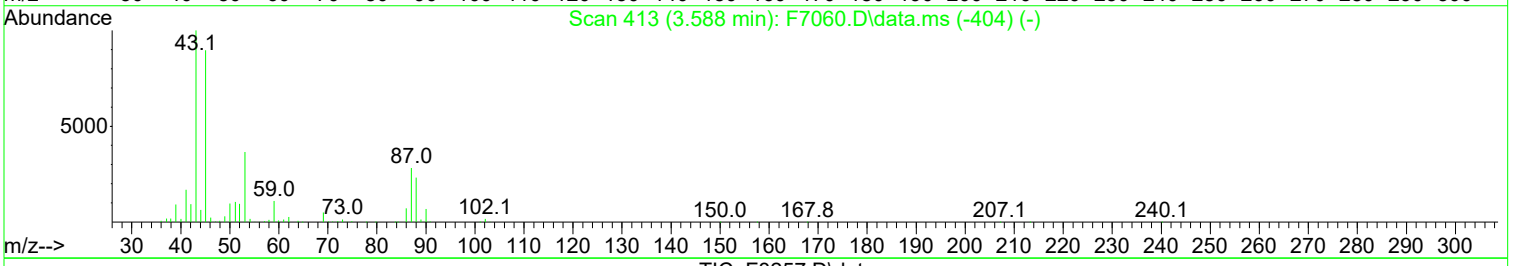
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8257.D
Acq On : 20 Feb 2024 05:18 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 09:00:55 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8257.D\data.ms

(29) Vinyl Acetate

3.588min (-3.588) 0.00 ug/L

response 0

Ion	Exp%	Act%
86.00	100.00	0.00
43.10	1391.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

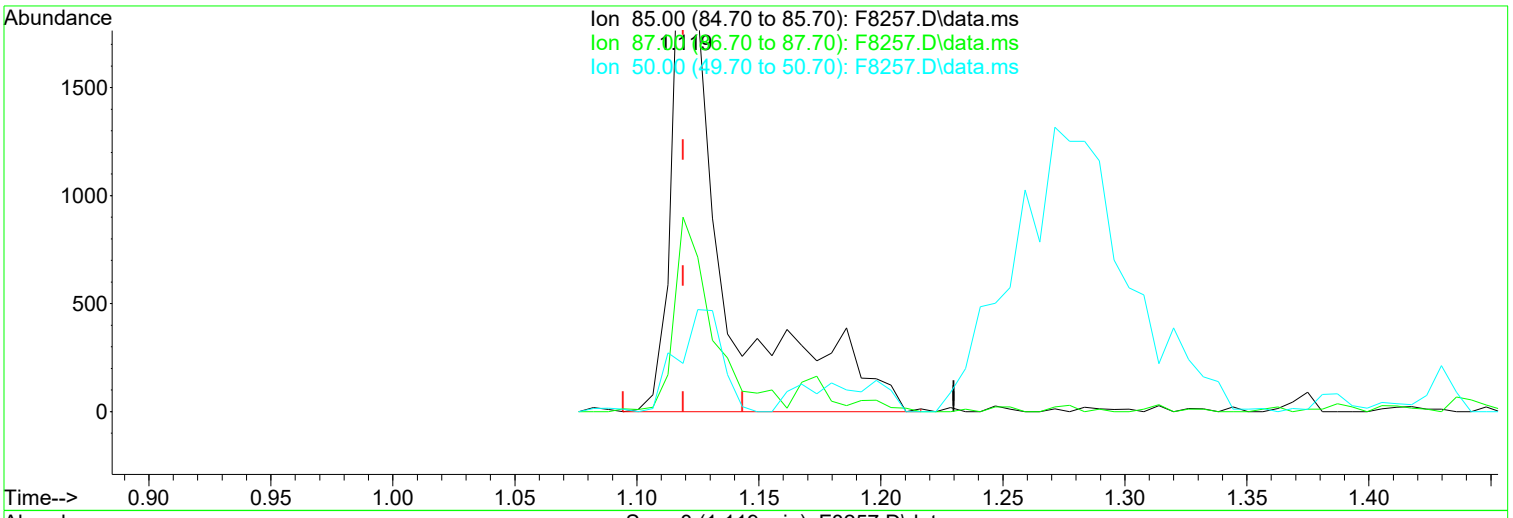
Before

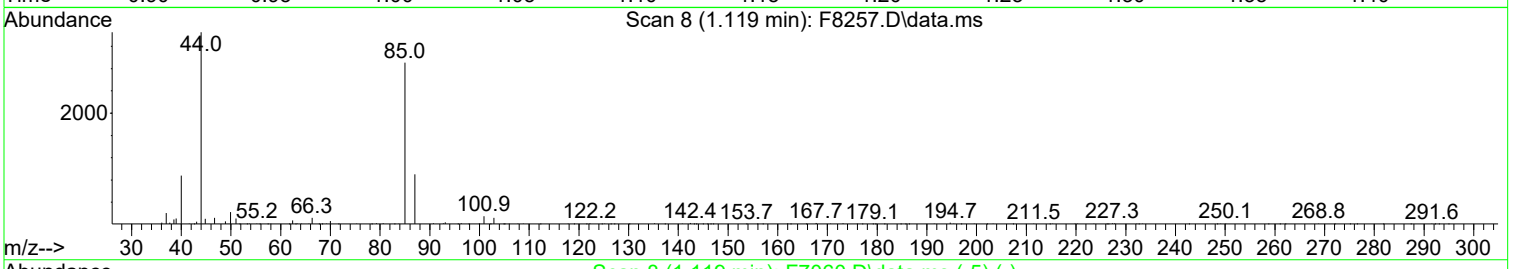
02/21/24

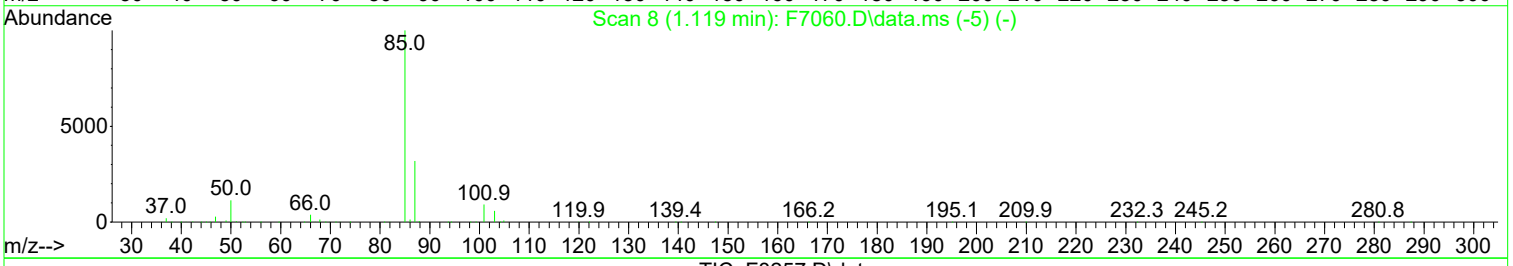
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8257.D
Acq On : 20 Feb 2024 05:18 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 09:00:55 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8257.D\data.ms

(3) Dichlorodifluoromethane (P)

1.119min (-0.000) 1.00 ug/L m

response 3514

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.80	30.94
50.00	11.40	7.67
0.00	0.00	0.00

Manual Integration:

After

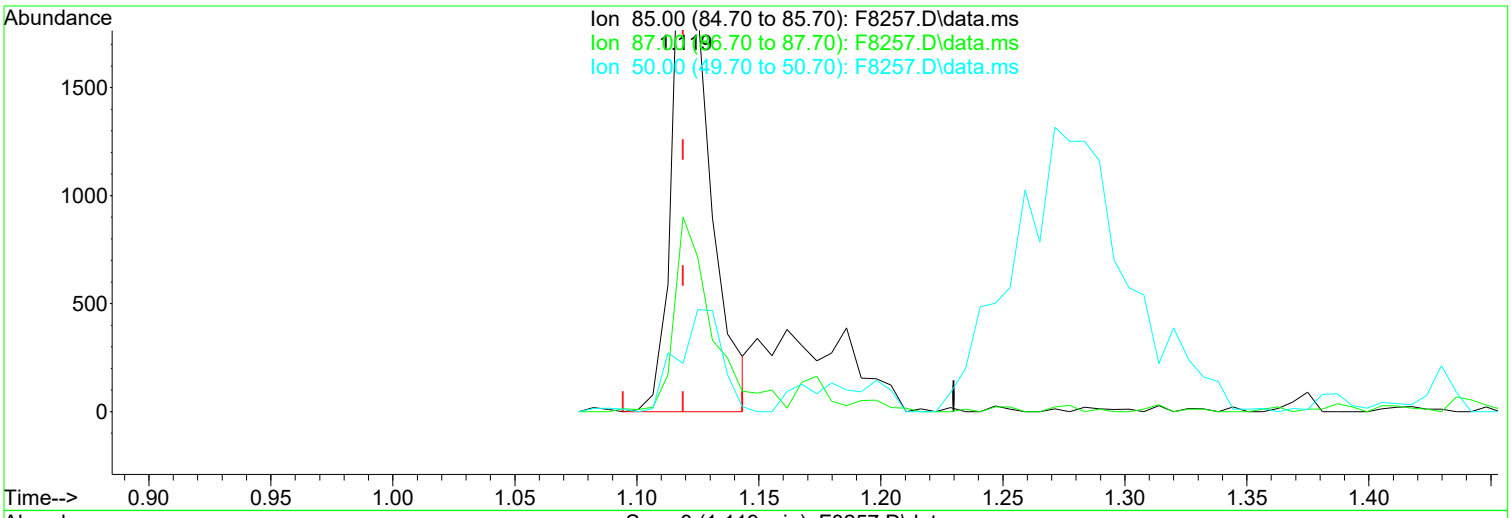
Poor integration.

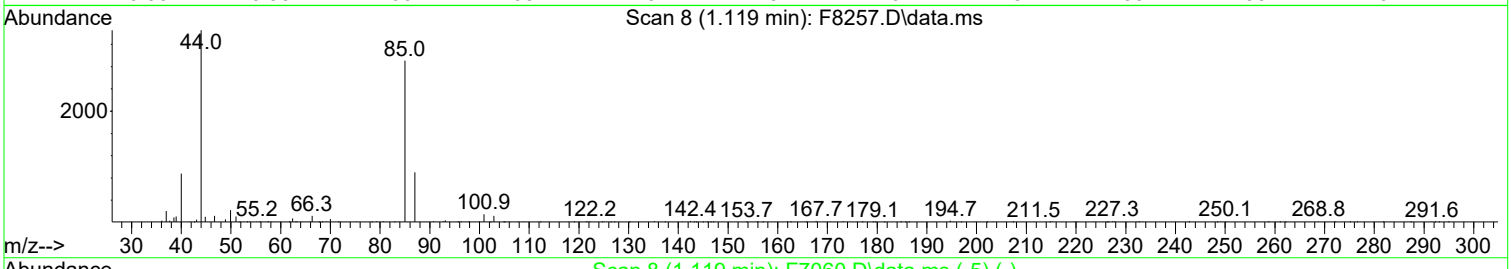
02/21/24

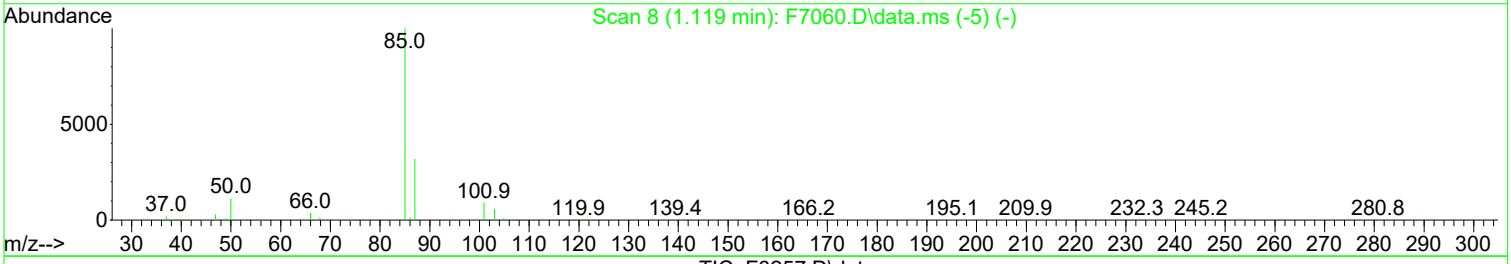
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8257.D
Acq On : 20 Feb 2024 05:18 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 09:00:55 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8257.D\data.ms

(3) Dichlorodifluoromethane (P)

1.119min (-0.000) 0.73 ug/L

response 2556

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.80	30.94
50.00	11.40	7.67
0.00	0.00	0.00

Manual Integration:

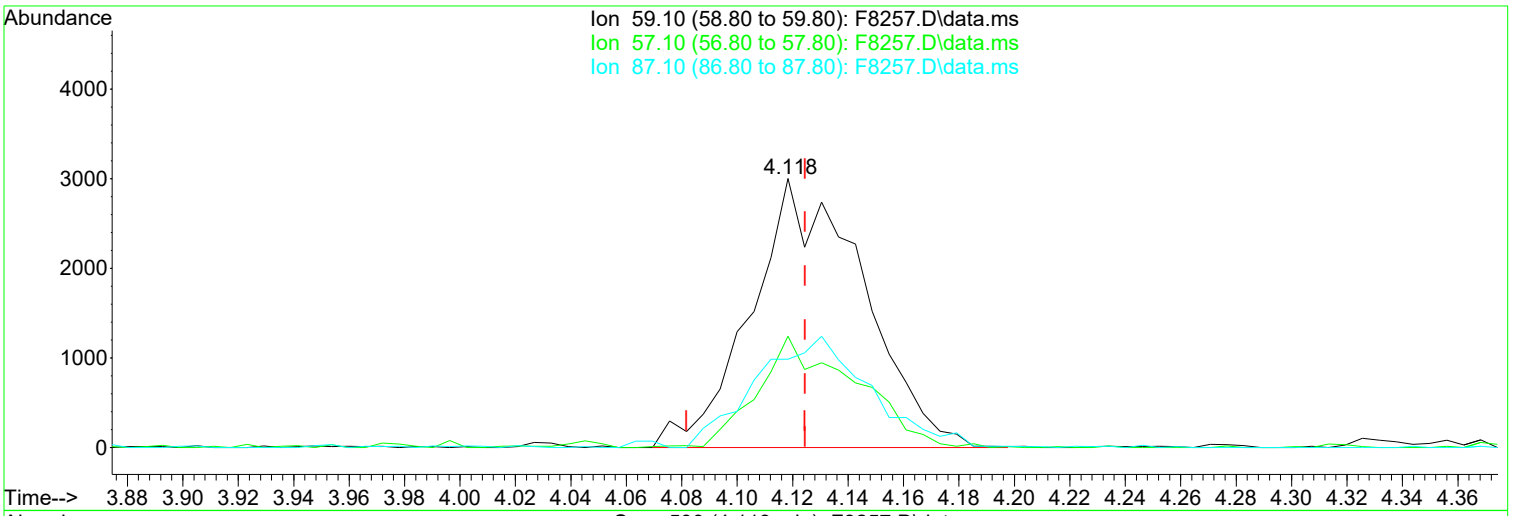
Before

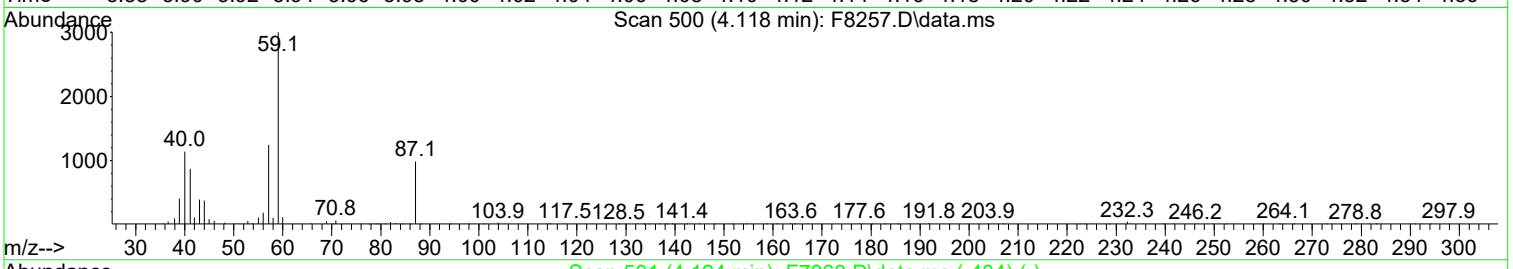
02/21/24

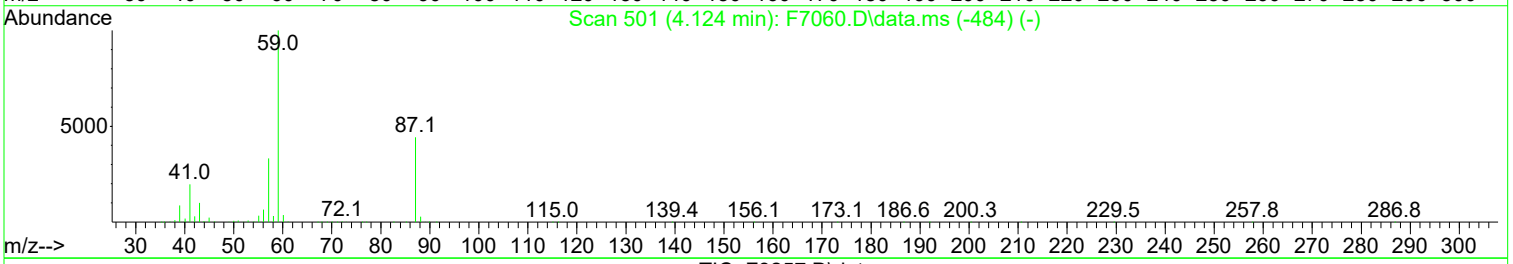
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8257.D
Acq On : 20 Feb 2024 05:18 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 09:00:55 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8257.D\data.ms

(32) ETBE

4.118min (-0.006) 1.13 ug/L m

response 8442

Ion	Exp%	Act%
59.10	100.00	100.00
57.10	33.40	41.44
87.10	44.20	32.84
0.00	0.00	0.00

Manual Integration:

After

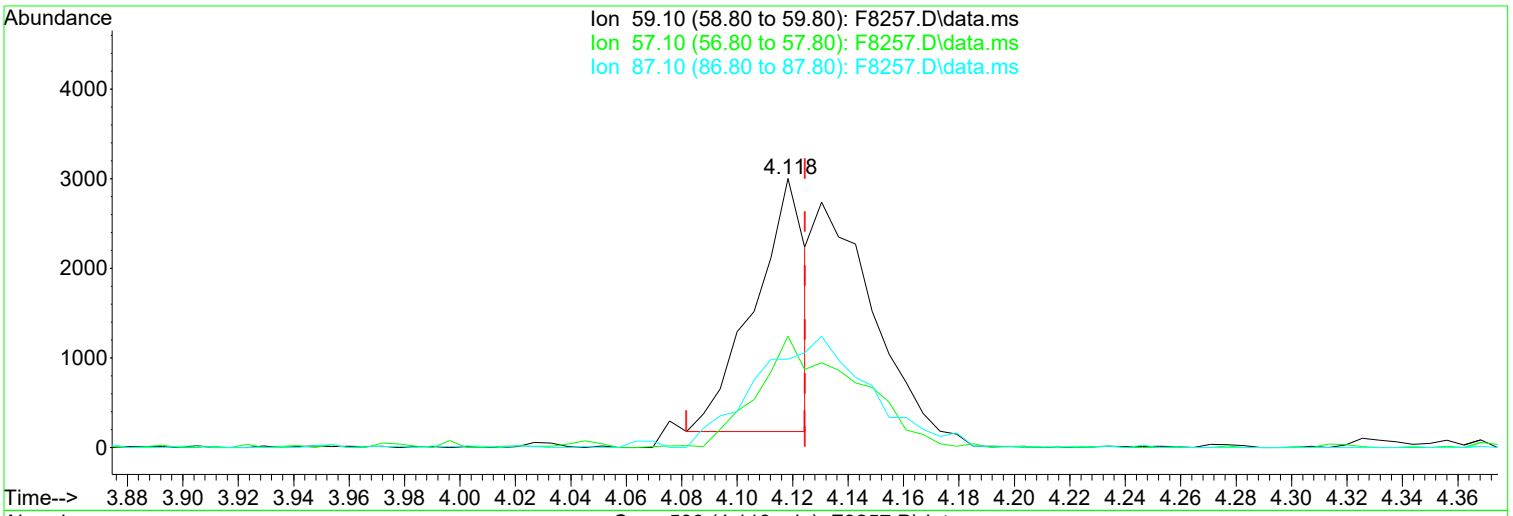
Poor integration.

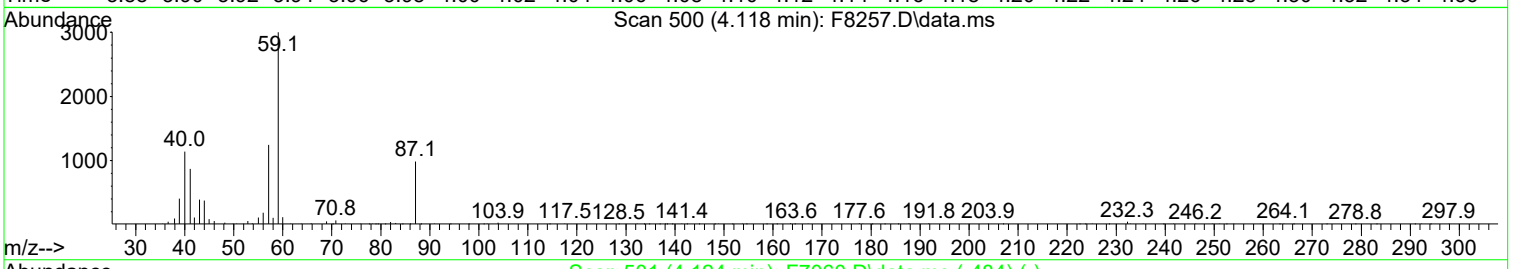
02/21/24

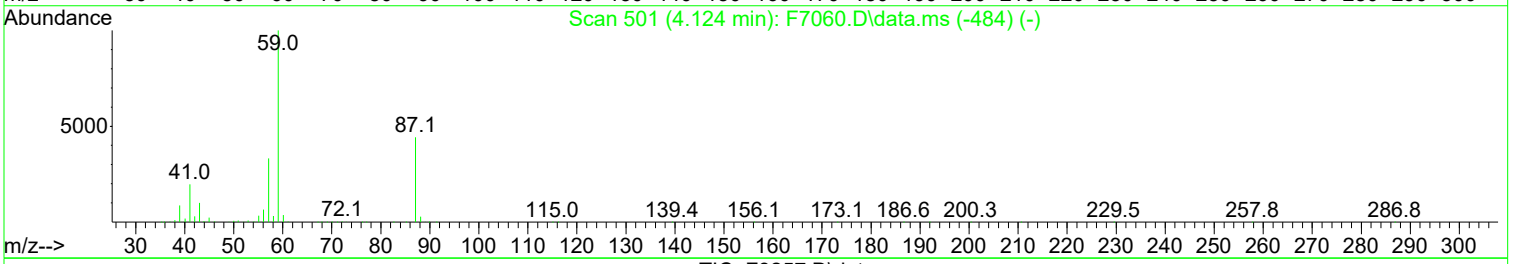
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8257.D
Acq On : 20 Feb 2024 05:18 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 09:00:55 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8257.D\data.ms

(32) ETBE

4.118min (-0.006) 0.49 ug/L

response 3636

Ion	Exp%	Act%
59.10	100.00	100.00
57.10	33.40	41.44
87.10	44.20	32.84
0.00	0.00	0.00

Manual Integration:

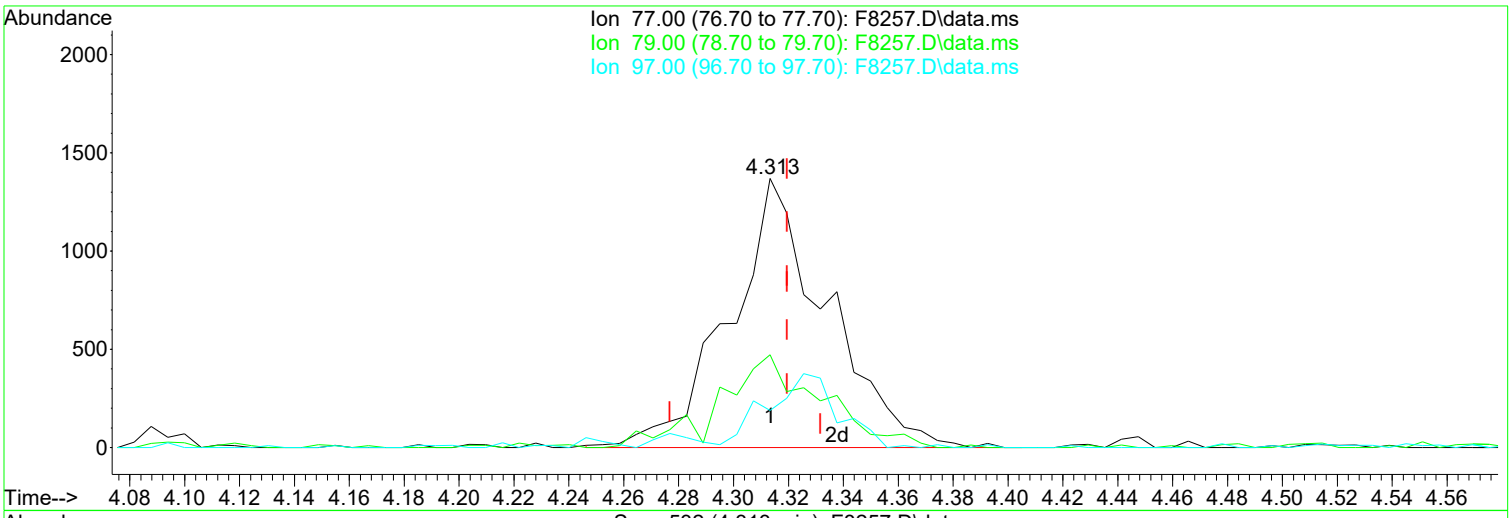
Before

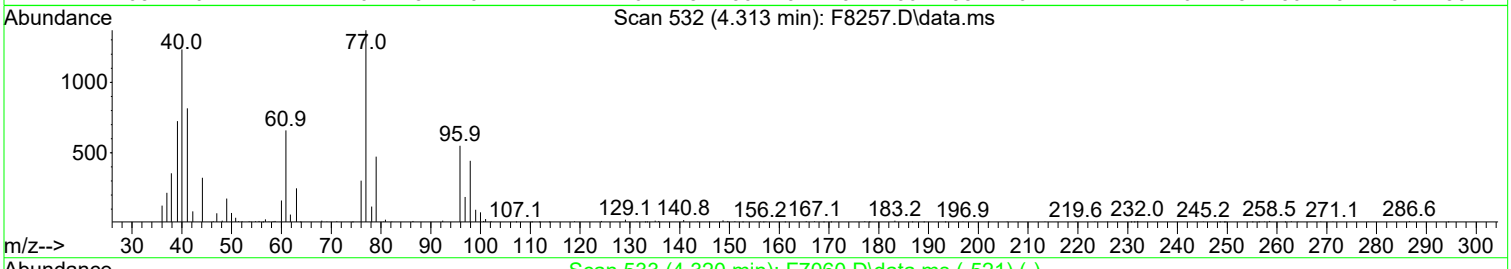
02/21/24

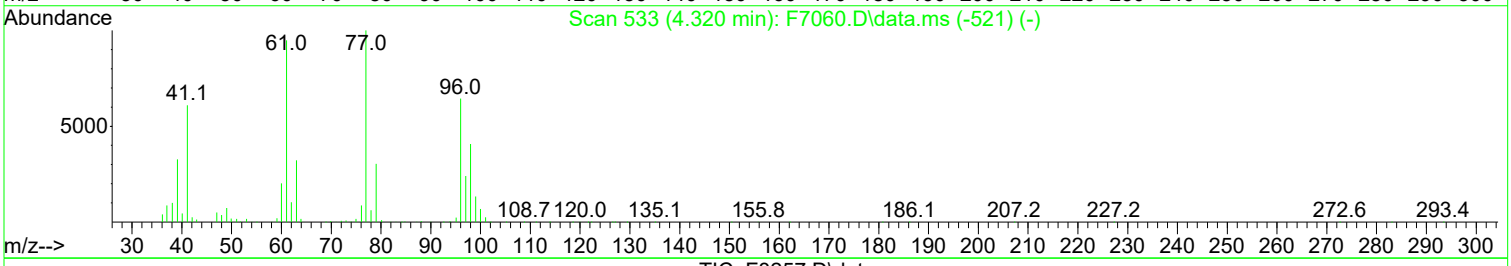
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8257.D
Acq On : 20 Feb 2024 05:18 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 09:00:55 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8257.D\data.ms

(33) 2,2-Dichloropropane

4.313min (-0.006) 1.06 ug/L m

response 3366

Ion	Exp%	Act%
77.00	100.00	100.00
79.00	30.50	34.48
97.00	24.10	13.73
0.00	0.00	0.00

Manual Integration:

After

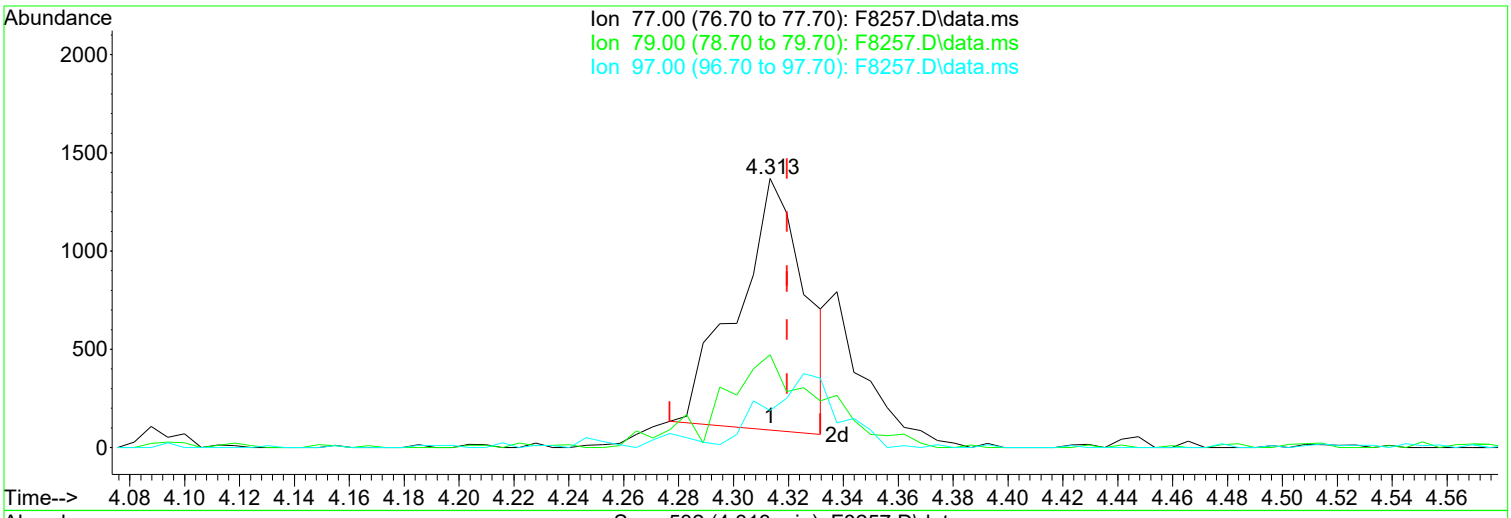
Poor integration.

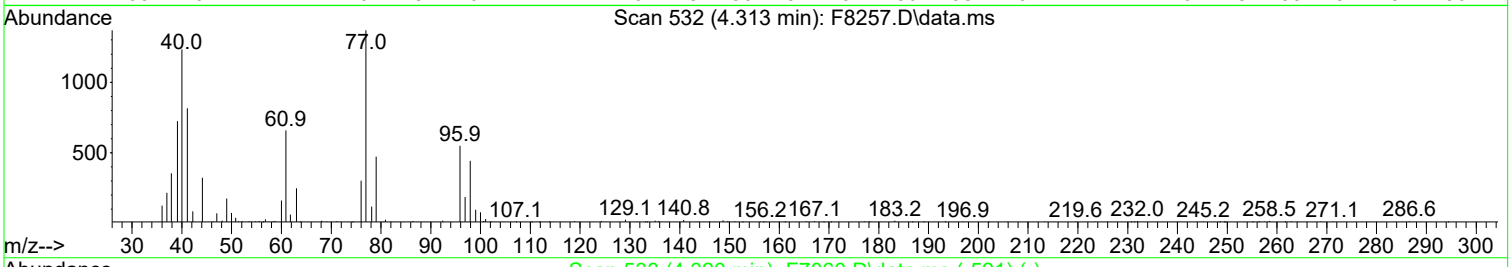
02/21/24

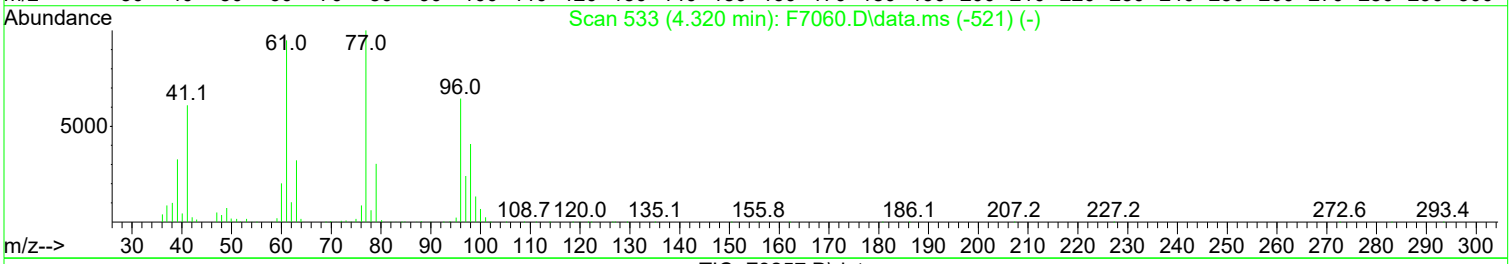
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8257.D
Acq On : 20 Feb 2024 05:18 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 09:00:55 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8257.D\data.ms

(33) 2,2-Dichloropropane

4.313min (-0.006) 0.69 ug/L

response 2186

Ion	Exp%	Act%
77.00	100.00	100.00
79.00	30.50	34.48
97.00	24.10	13.73
0.00	0.00	0.00

Manual Integration:

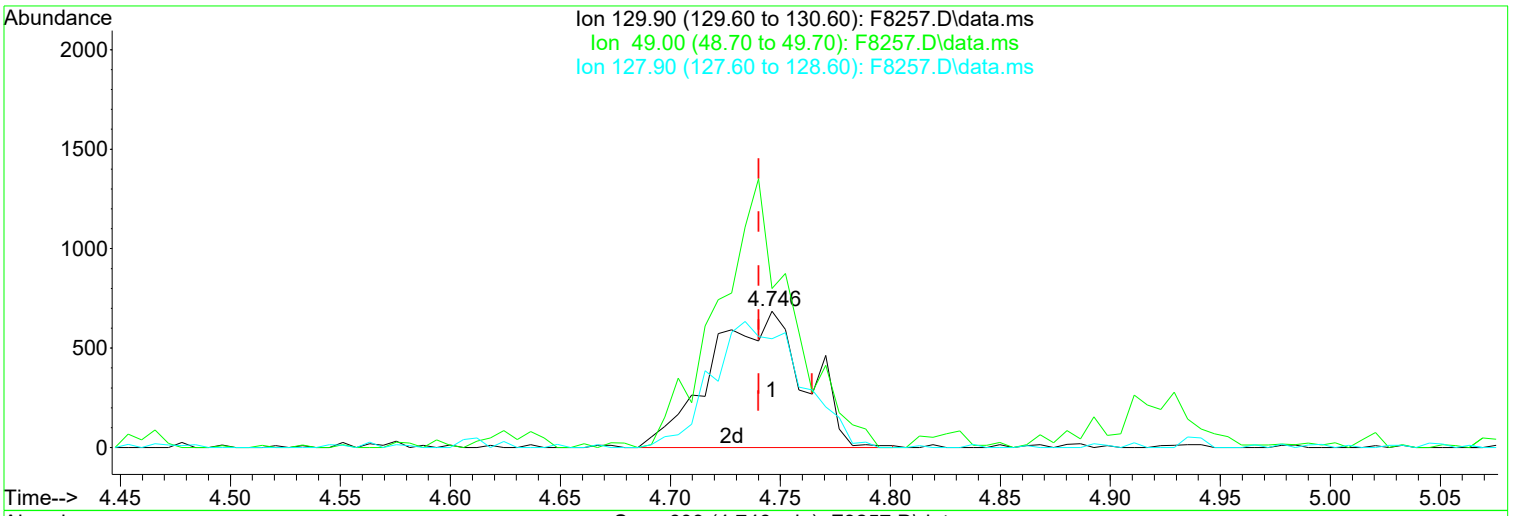
Before

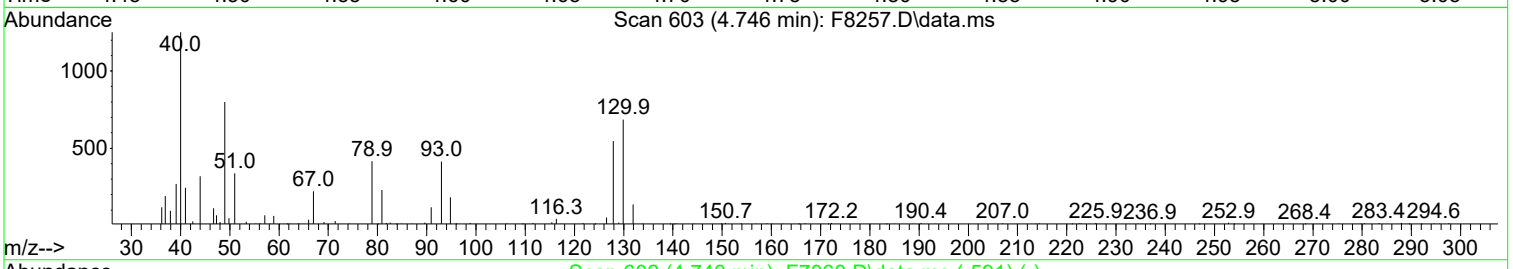
02/21/24

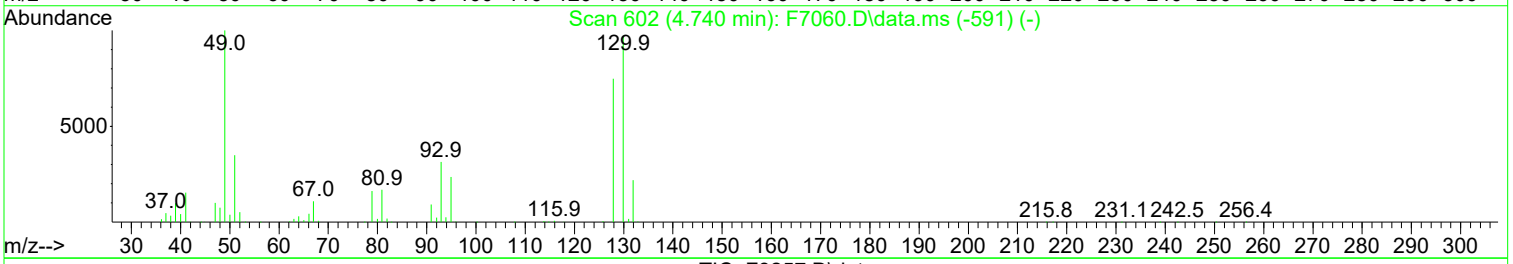
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8257.D
Acq On : 20 Feb 2024 05:18 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 09:00:55 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8257.D\data.ms

(37) Bromochloromethane

4.746min (+ 0.006) 1.04 ug/L m

response 2030

Ion	Exp%	Act%
129.90	100.00	100.00
49.00	103.10	116.47
127.90	77.00	79.74
0.00	0.00	0.00

Manual Integration:

After

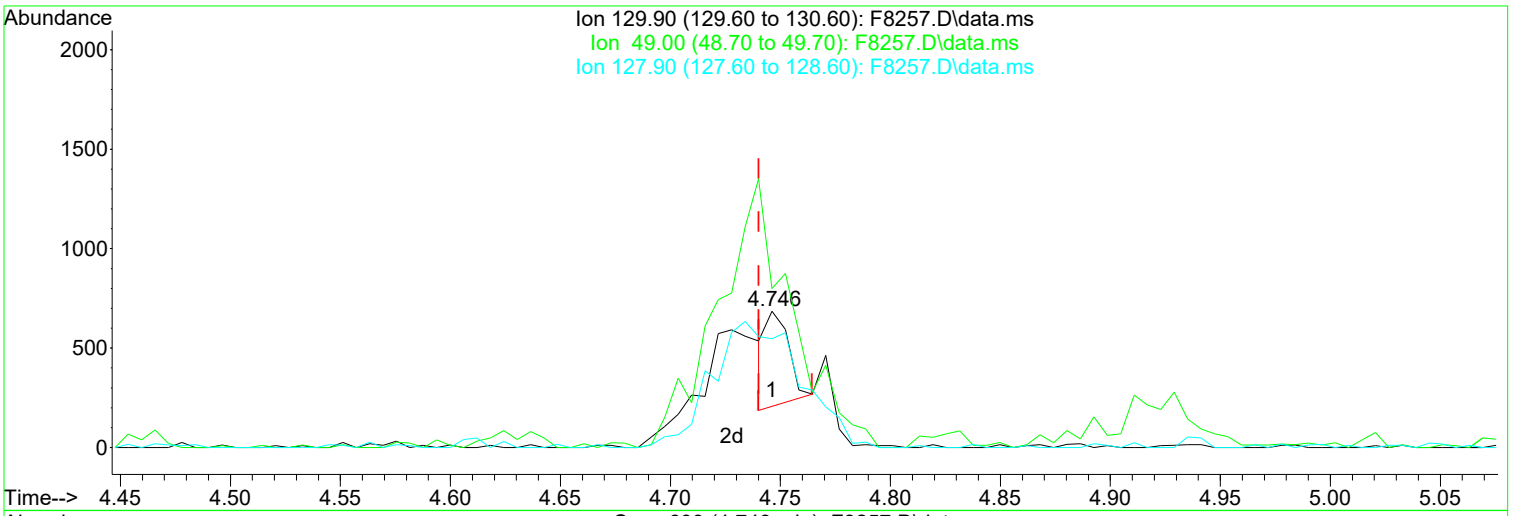
Poor integration.

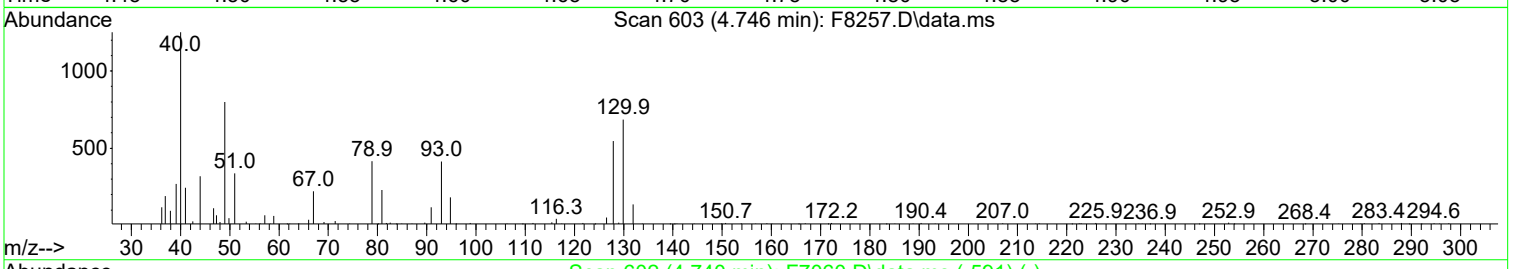
02/21/24

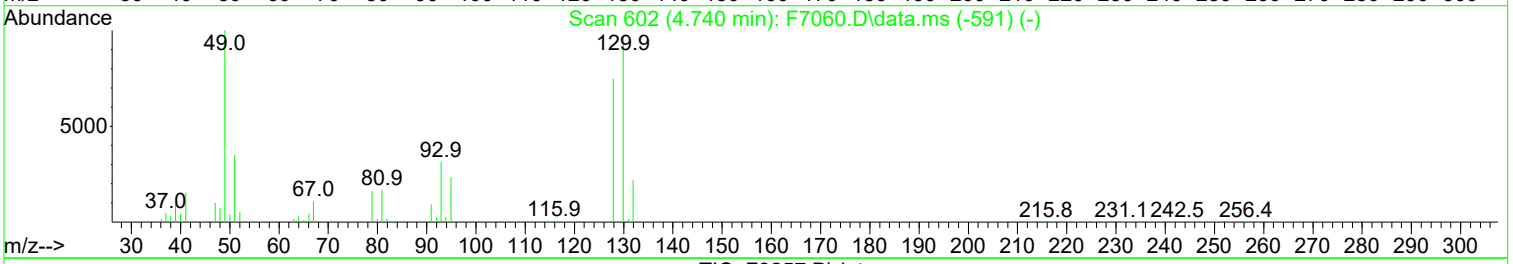
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8257.D
Acq On : 20 Feb 2024 05:18 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 09:00:55 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8257.D\data.ms

(37) Bromochloromethane

4.746min (+ 0.006) 0.17 ug/L

response 339

Ion	Exp%	Act%
129.90	100.00	100.00
49.00	103.10	116.47
127.90	77.00	79.74
0.00	0.00	0.00

Manual Integration:

Before

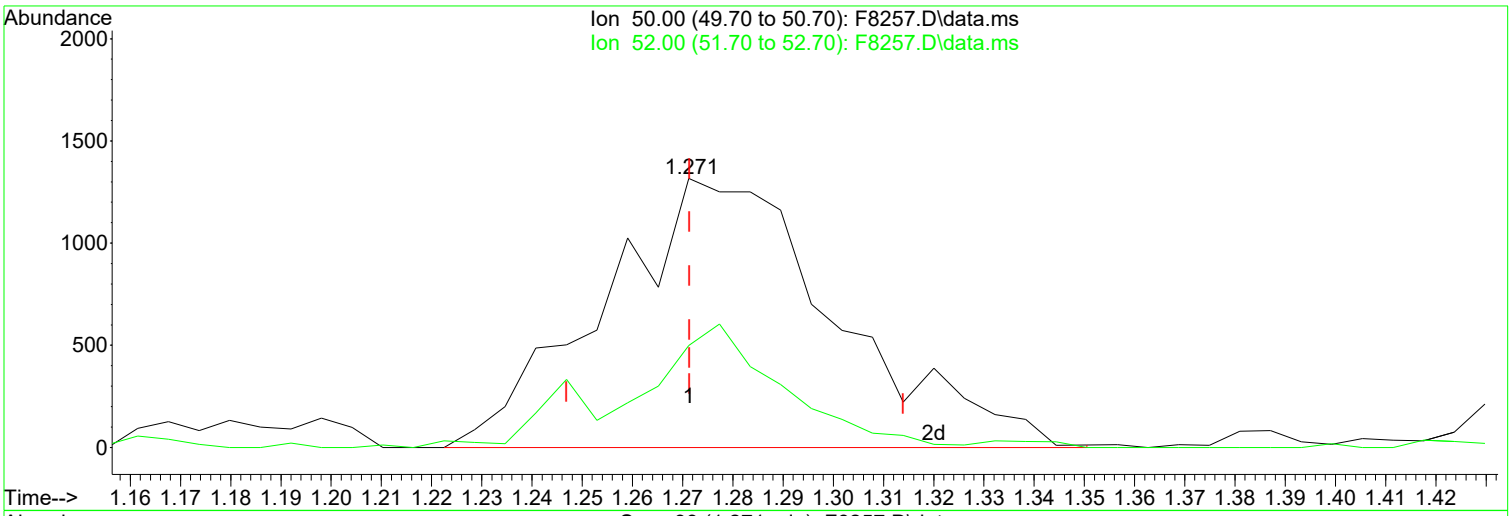
02/21/24

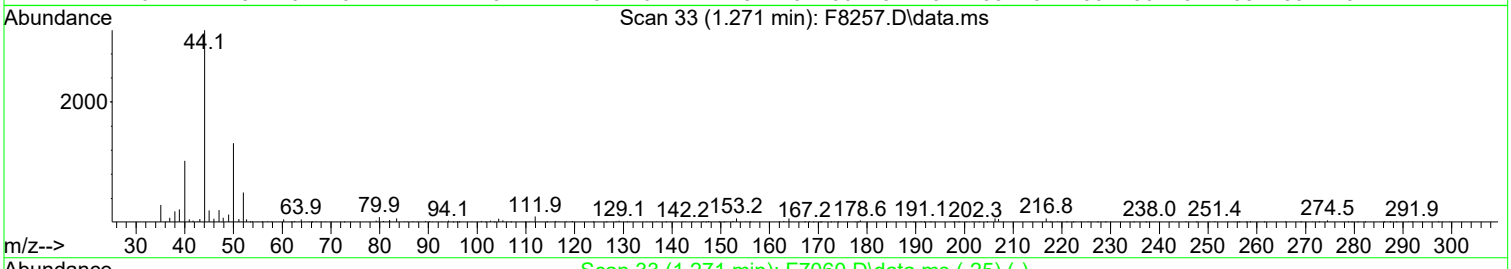
1st FN 02/21/24
2nd 02/21/24

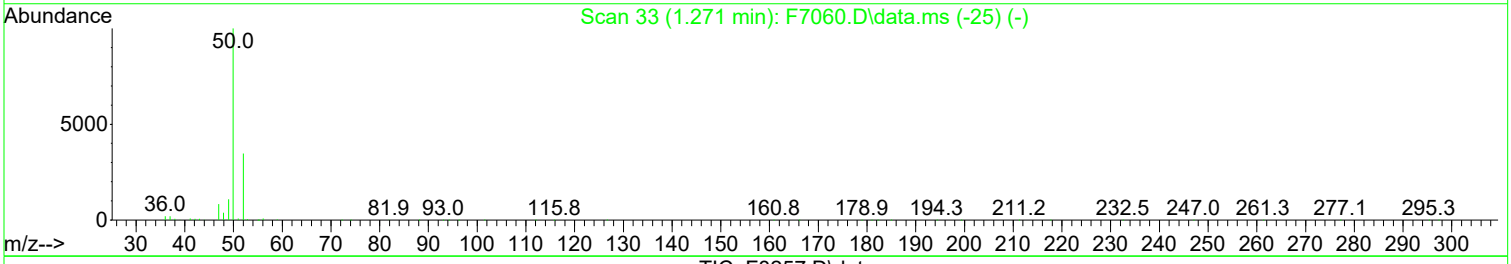
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8257.D
Acq On : 20 Feb 2024 05:18 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 09:00:55 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8257.D\data.ms

(4) Chloromethane (P)

1.271min (-0.000) 1.40 ug/L m

response 4253

Ion	Exp%	Act%
50.00	100.00	100.00
52.00	34.50	37.92
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

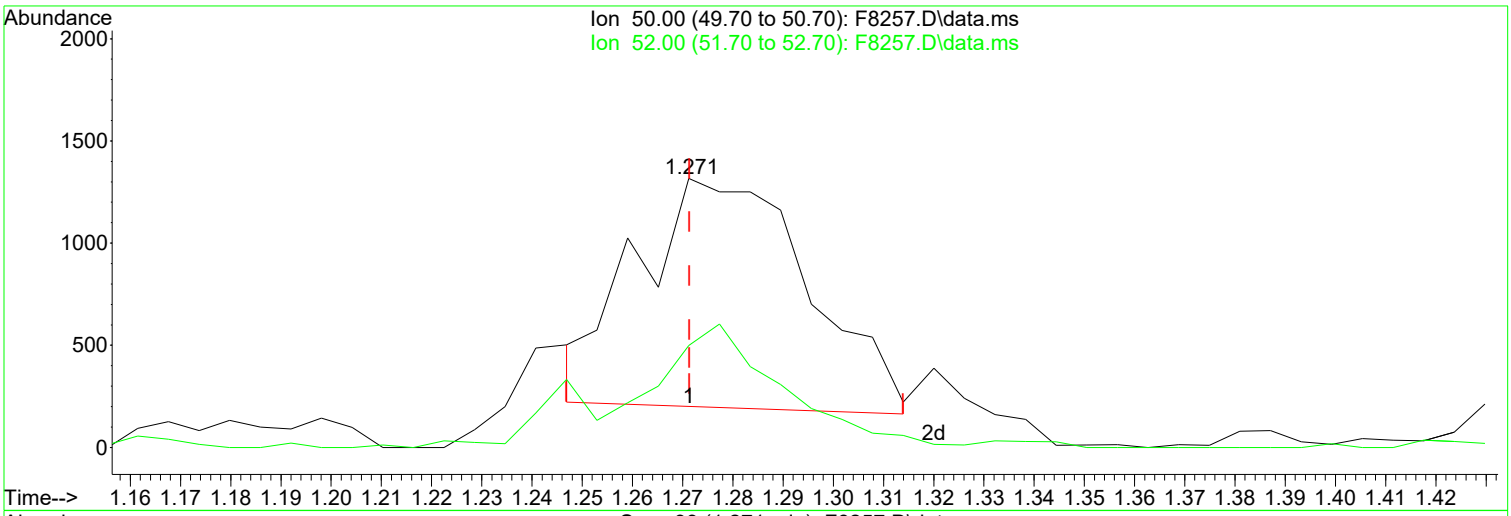
Poor integration.

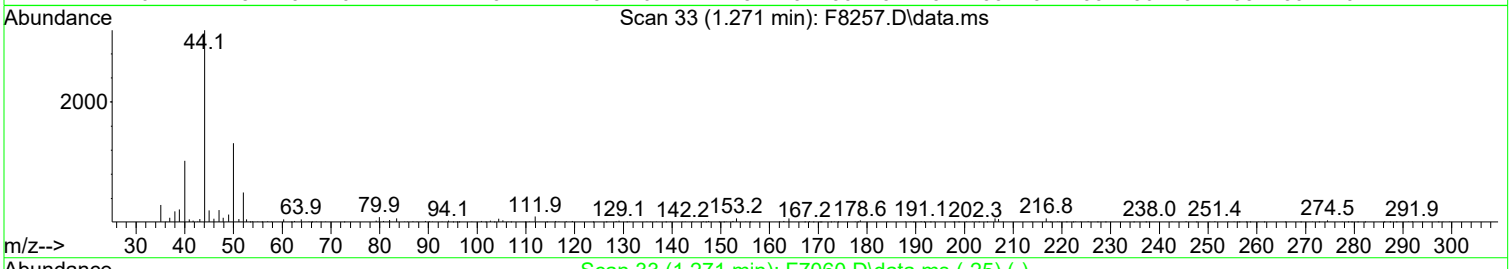
02/21/24

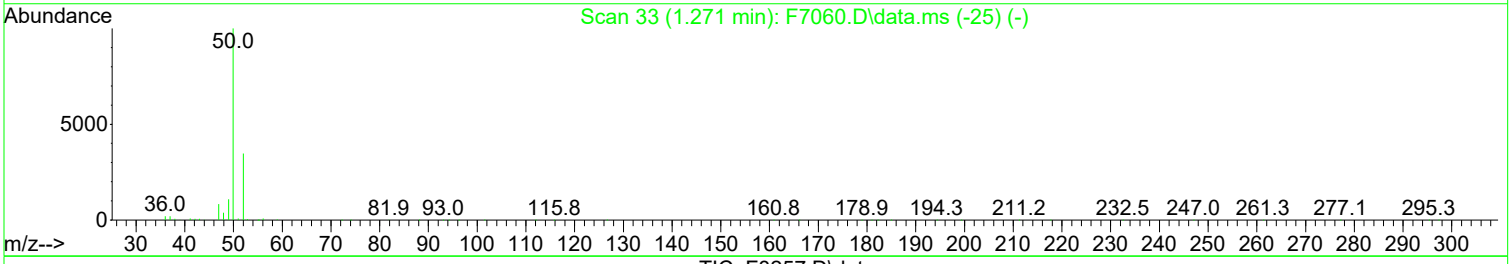
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8257.D
Acq On : 20 Feb 2024 05:18 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 09:00:55 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8257.D\data.ms

(4) Chloromethane (P)

1.271min (-0.000) 0.88 ug/L

response 2662

Ion	Exp%	Act%
50.00	100.00	100.00
52.00	34.50	41.95
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

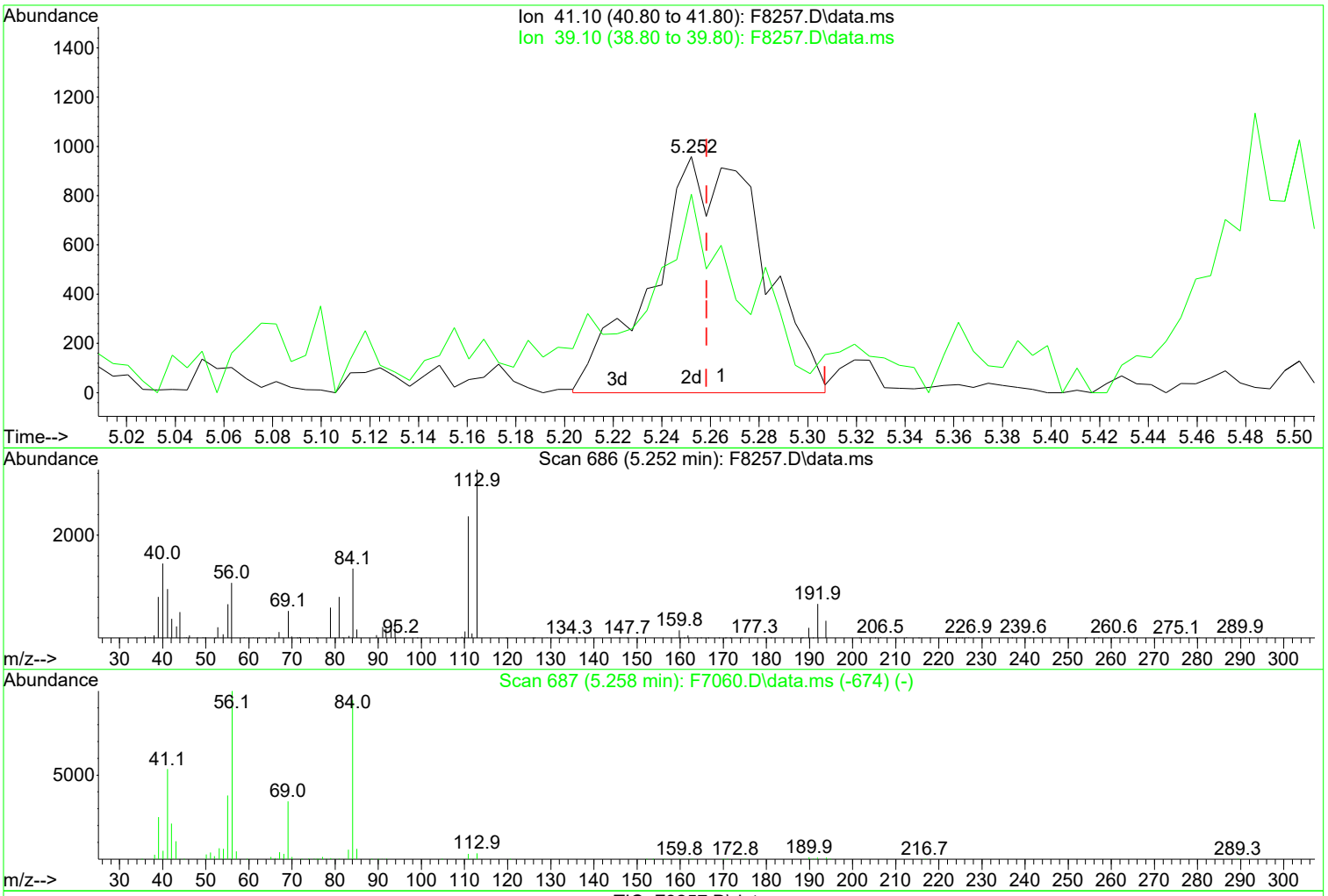
Before

02/21/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8257.D
Acq On : 20 Feb 2024 05:18 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 09:00:55 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration



TIC: F8257.D\data.ms

(44) Cyclohexane (P)

5.252min (-0.006) 1.38 ug/L m

response 3038

Ion	Exp%	Act%
41.10	100.00	100.00
39.10	47.00	84.13#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

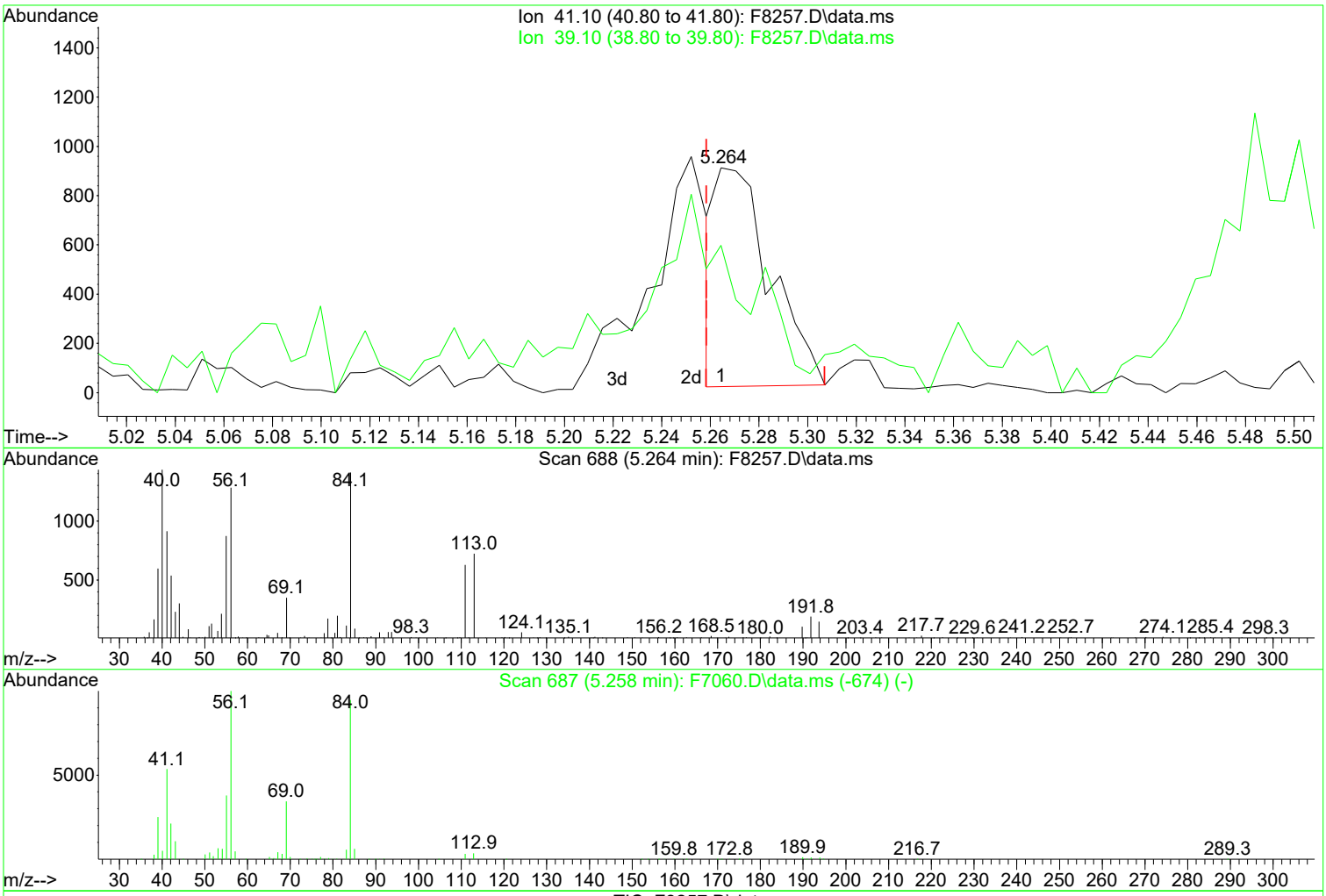
Poor integration.

02/21/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8257.D
Acq On : 20 Feb 2024 05:18 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 09:00:55 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration



TIC: F8257.D\data.ms

(44) Cyclohexane (P)

5.264min (+ 0.006) 0.63 ug/L

response 1385

Ion	Exp%	Act%
41.10	100.00	100.00
39.10	47.00	65.50
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

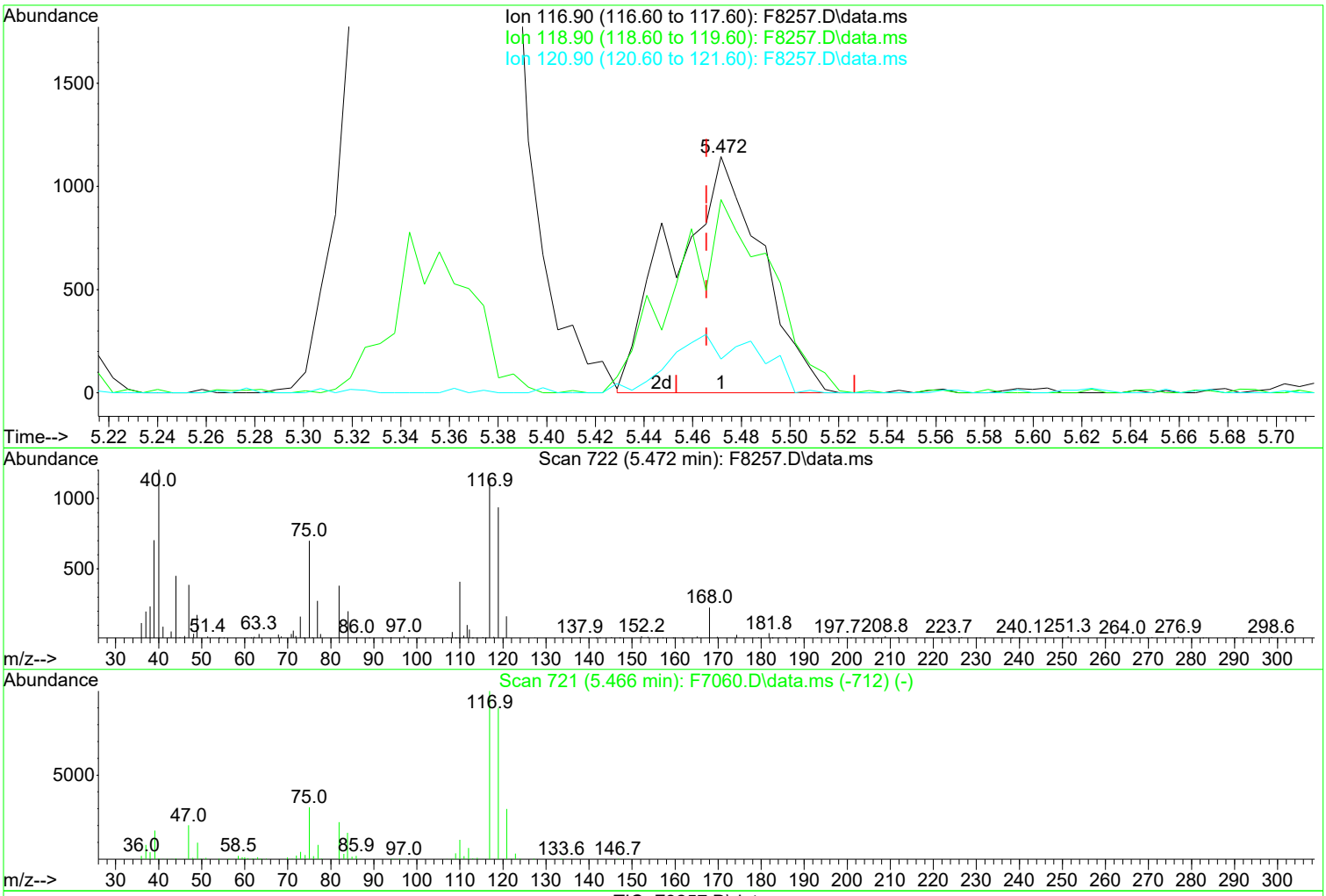
Before

02/21/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8257.D
Acq On : 20 Feb 2024 05:18 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 09:00:55 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration



TIC: F8257.D\data.ms

(46) Carbontetrachloride (P)

5.472min (+ 0.006) 0.88 ug/L m

response 2926

Ion	Exp%	Act%
116.90	100.00	100.00
118.90	89.70	81.82
120.90	29.70	14.34
0.00	0.00	0.00

Manual Integration:

After

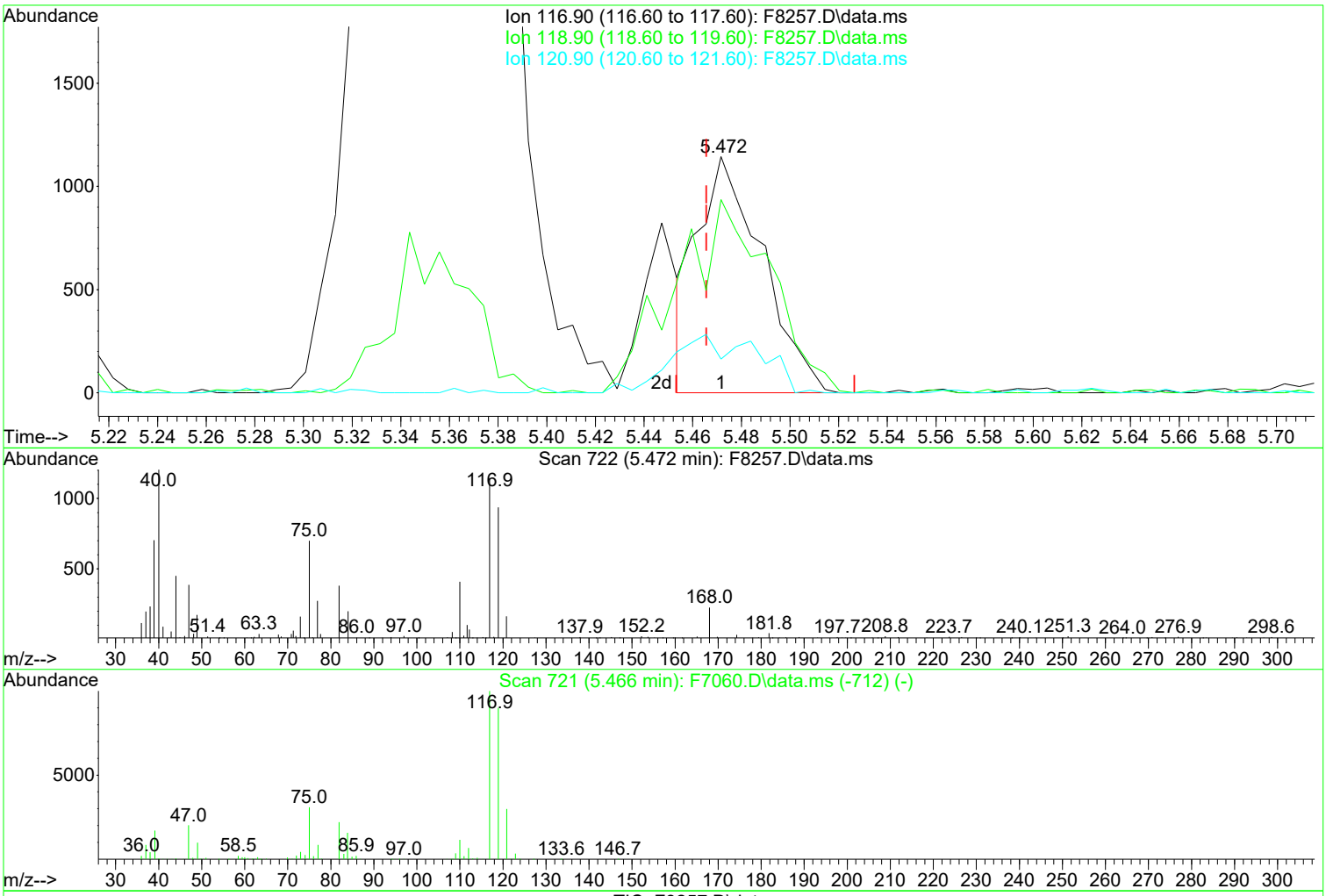
Poor integration.

02/21/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8257.D
Acq On : 20 Feb 2024 05:18 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 09:00:55 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration



TIC: F8257.D\data.ms

(46) Carbontetrachloride (P)

5.472min (+ 0.006) 0.64 ug/L

response 2137

Ion	Exp%	Act%
116.90	100.00	100.00
118.90	89.70	81.82
120.90	29.70	14.34
0.00	0.00	0.00

Manual Integration:

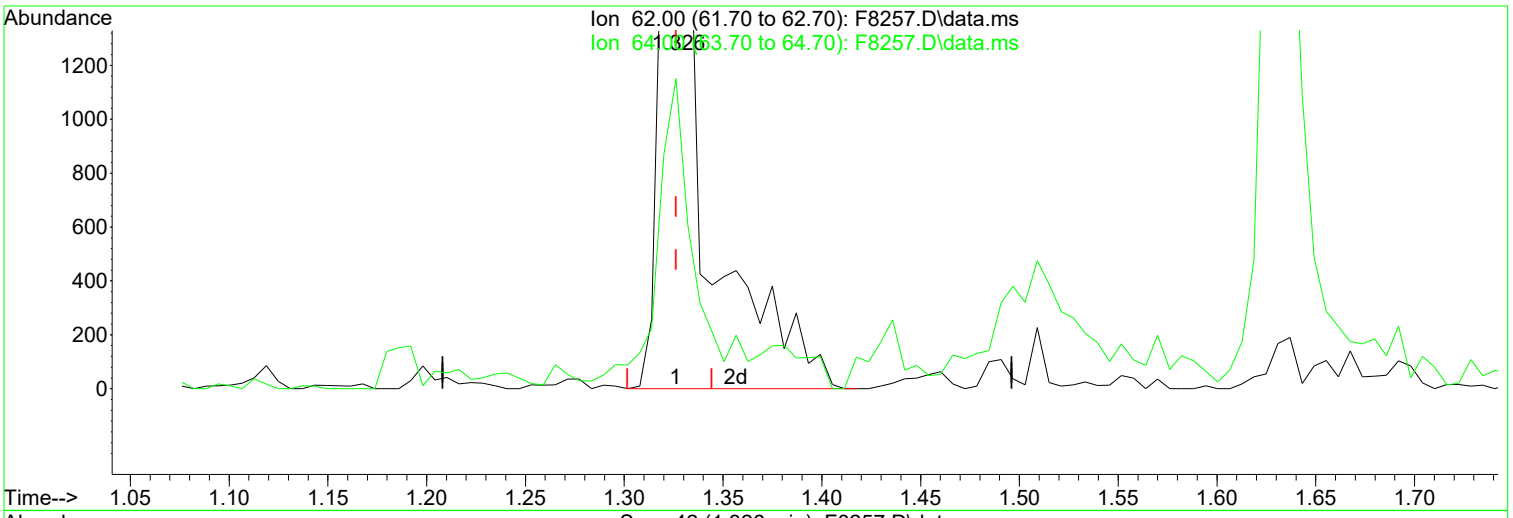
Before

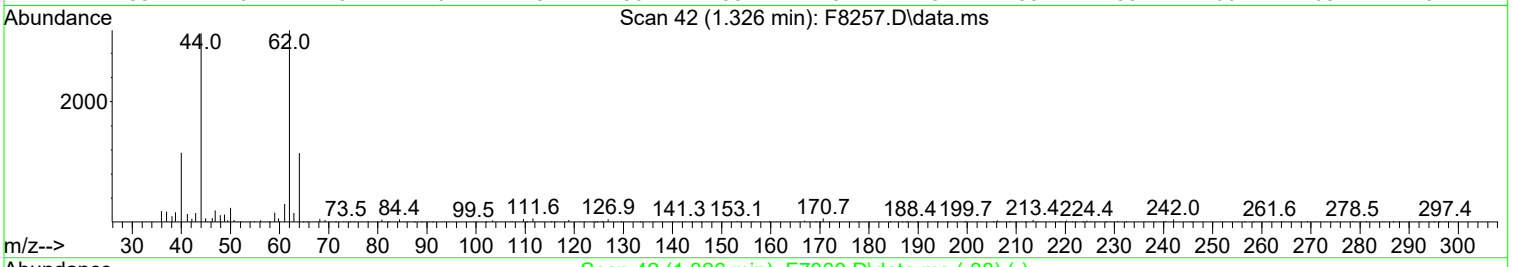
02/21/24

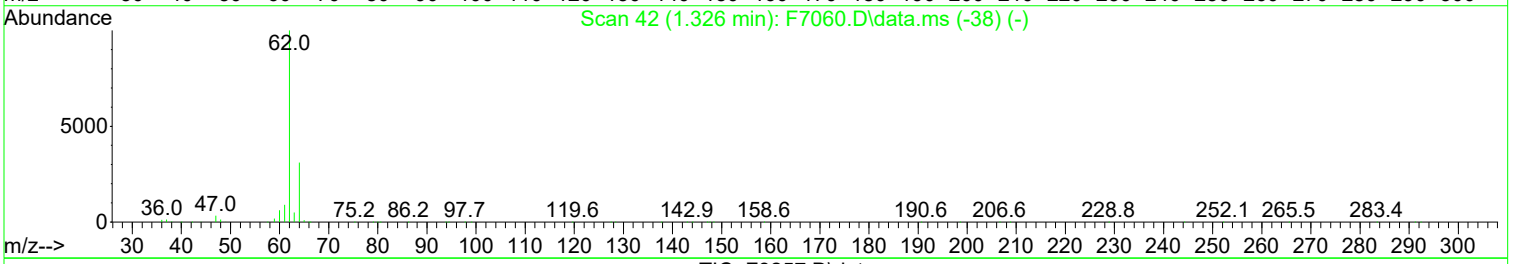
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8257.D
Acq On : 20 Feb 2024 05:18 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 09:00:55 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8257.D\data.ms

(5) Vinyl Chloride (P)

1.326min (-0.000) 1.23 ug/L m

response 4011

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	31.00	36.17
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

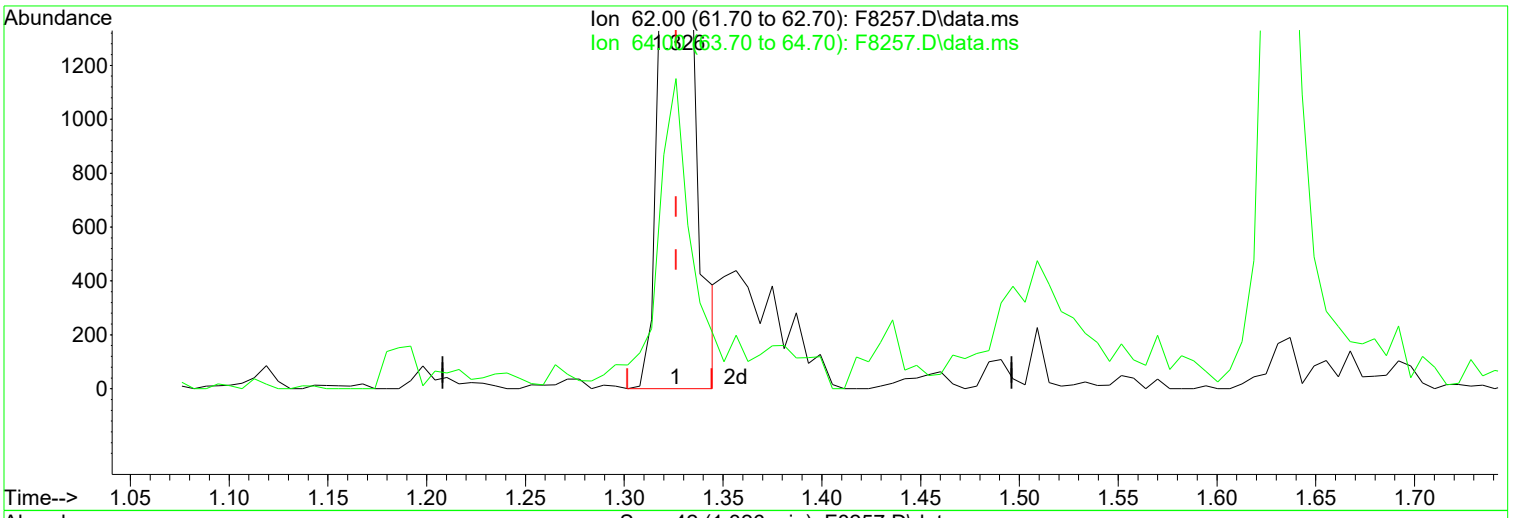
Poor integration.

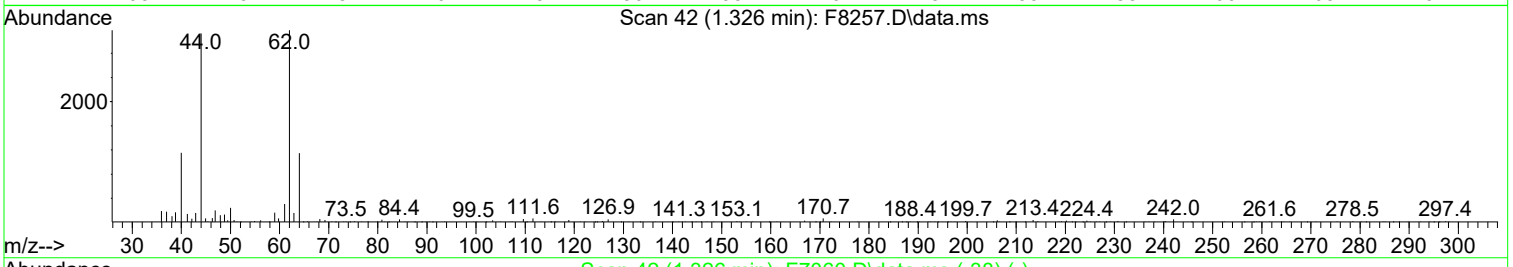
02/21/24

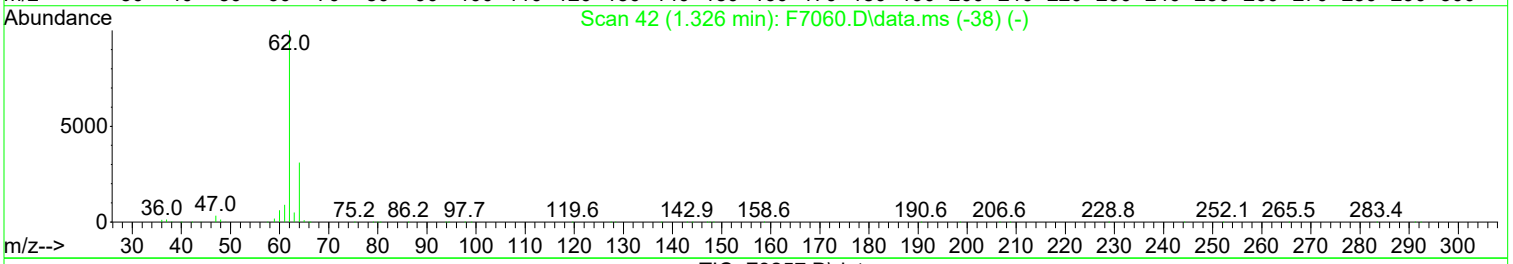
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8257.D
Acq On : 20 Feb 2024 05:18 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 09:00:55 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8257.D\data.ms

(5) Vinyl Chloride (P)

1.326min (-0.000) 0.95 ug/L

response 3089

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	31.00	36.17
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

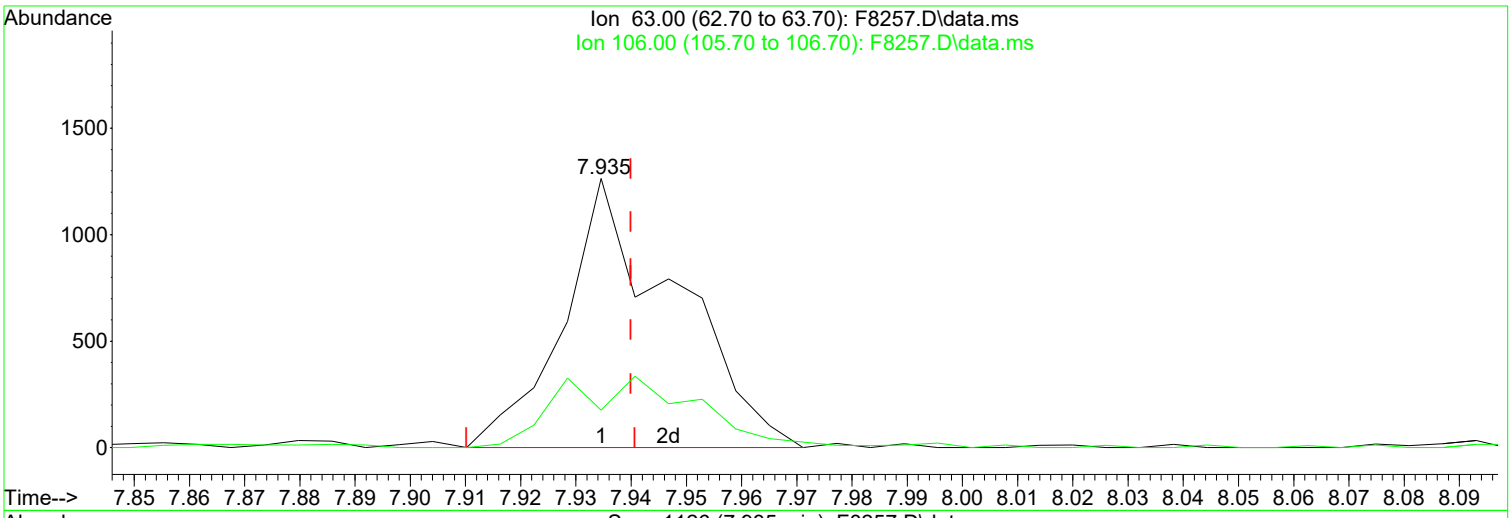
Before

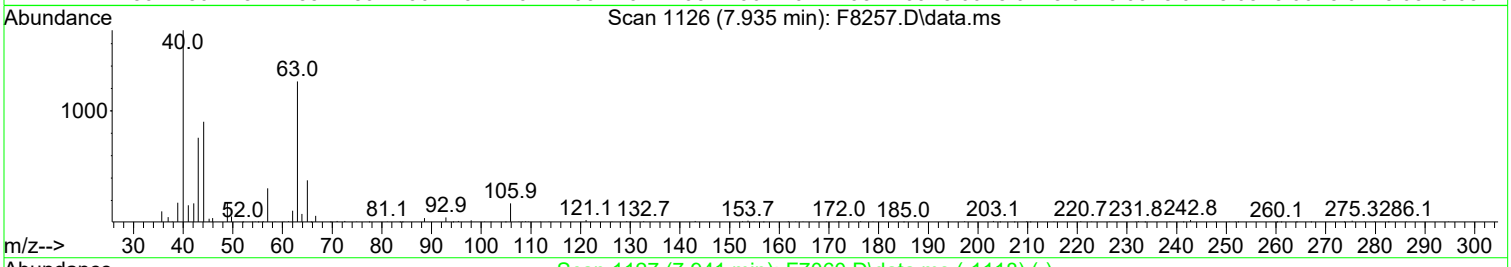
02/21/24

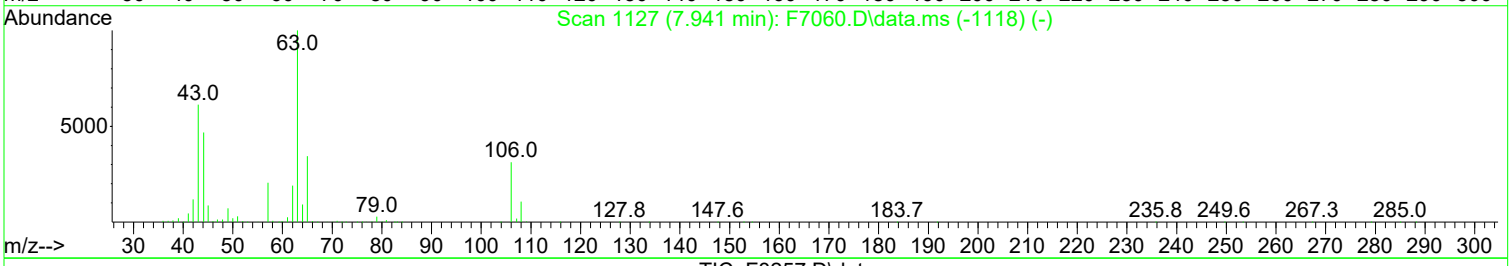
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8257.D
Acq On : 20 Feb 2024 05:18 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 09:00:55 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8257.D\data.ms

(62) 2-Chloroethylvinyl Ether

7.935min (-0.005) 1.08 ug/L m

response 1779

Ion	Exp%	Act%
63.00	100.00	100.00
106.00	31.30	13.92
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

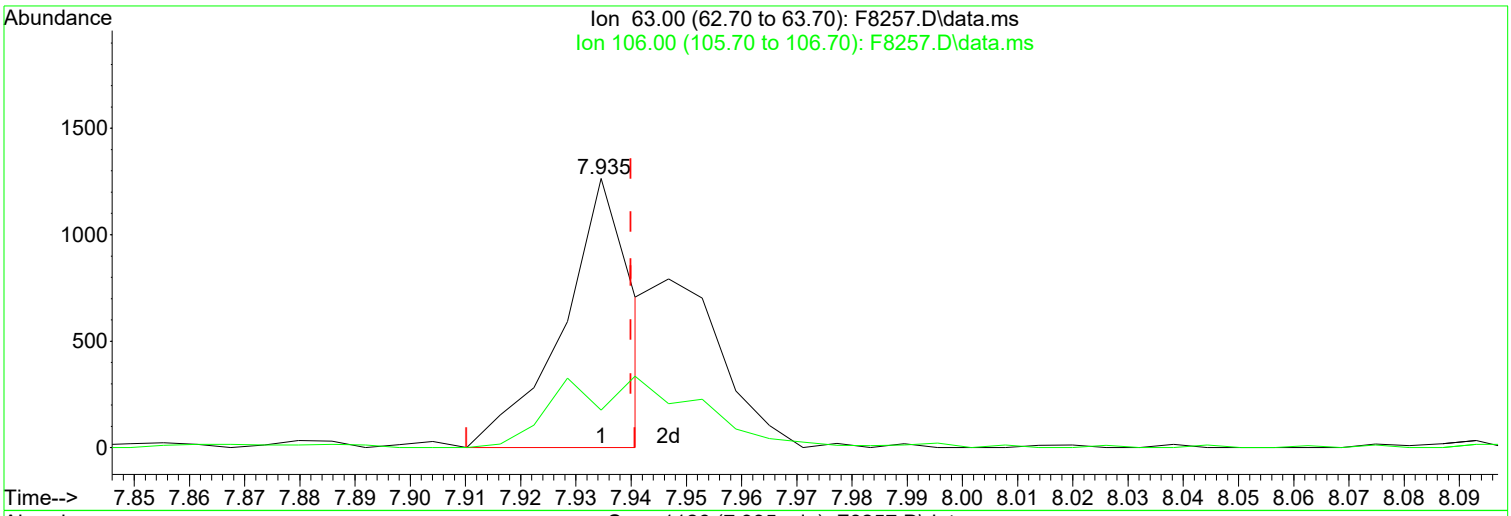
Poor integration.

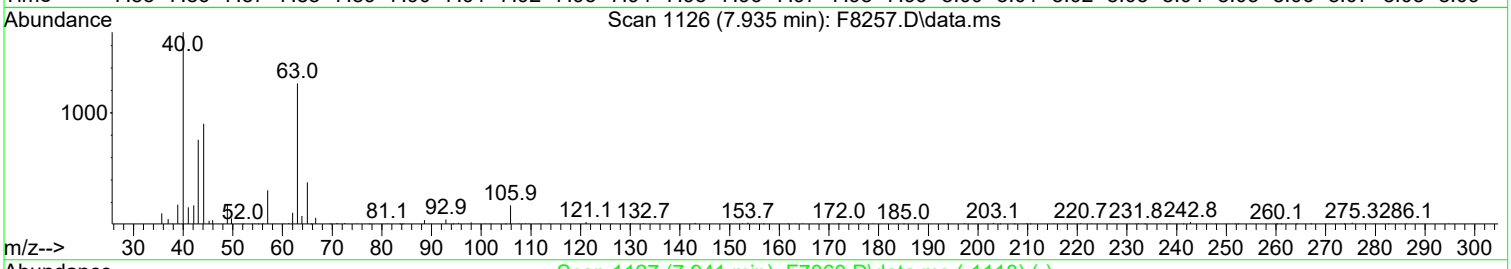
02/21/24

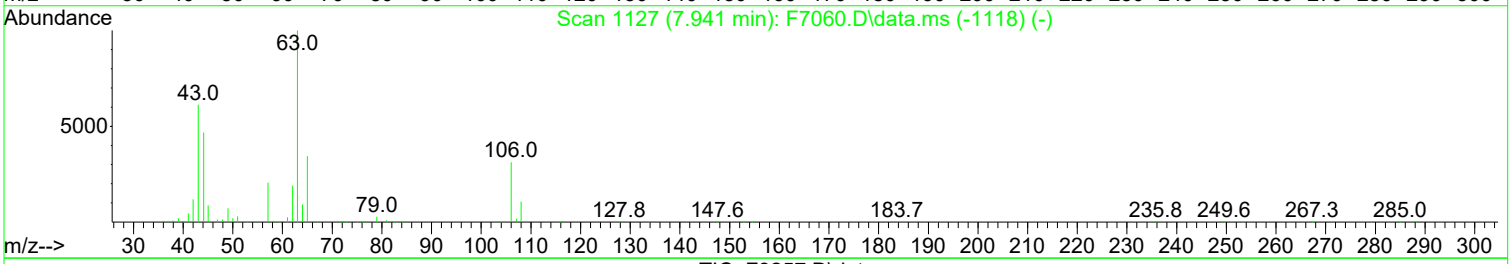
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8257.D
Acq On : 20 Feb 2024 05:18 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 09:00:55 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8257.D\data.ms

(62) 2-Chloroethylvinyl Ether

7.935min (-0.005) 0.67 ug/L

response 1097

Ion	Exp%	Act%
63.00	100.00	100.00
106.00	31.30	13.92
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

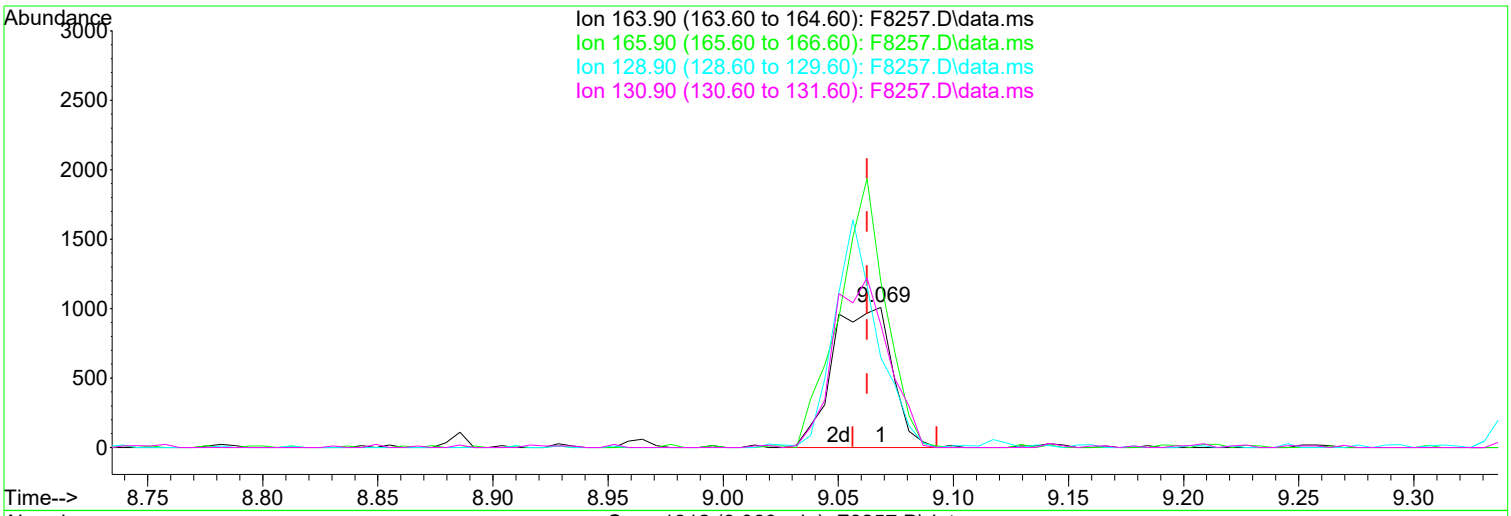
Before

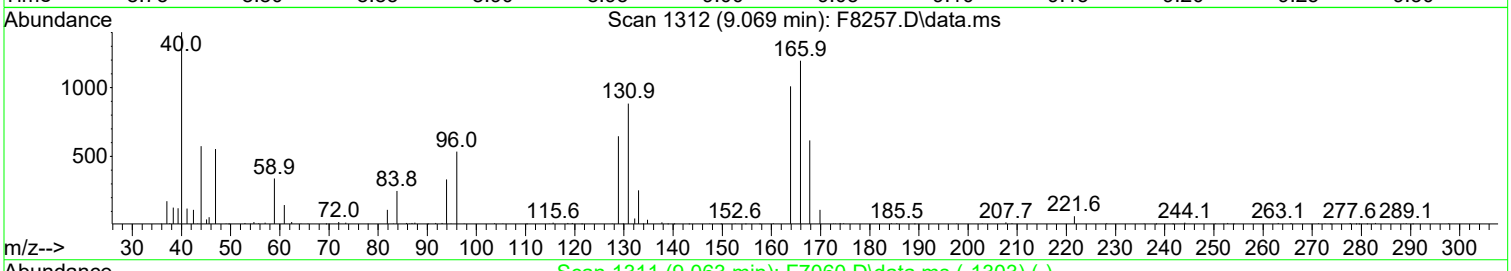
02/21/24

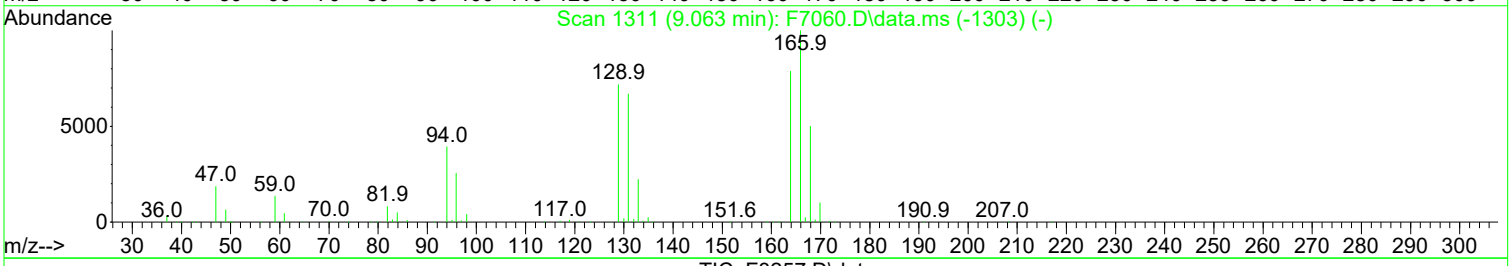
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8257.D
Acq On : 20 Feb 2024 05:18 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 09:00:55 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8257.D\data.ms

(72) Tetrachloroethene (P)

9.069min (+ 0.006) 0.79 ug/L m

response 1823

Ion	Exp%	Act%
163.90	100.00	100.00
165.90	126.90	118.42
128.90	91.10	63.96#
130.90	84.90	87.62

Manual Integration:

After

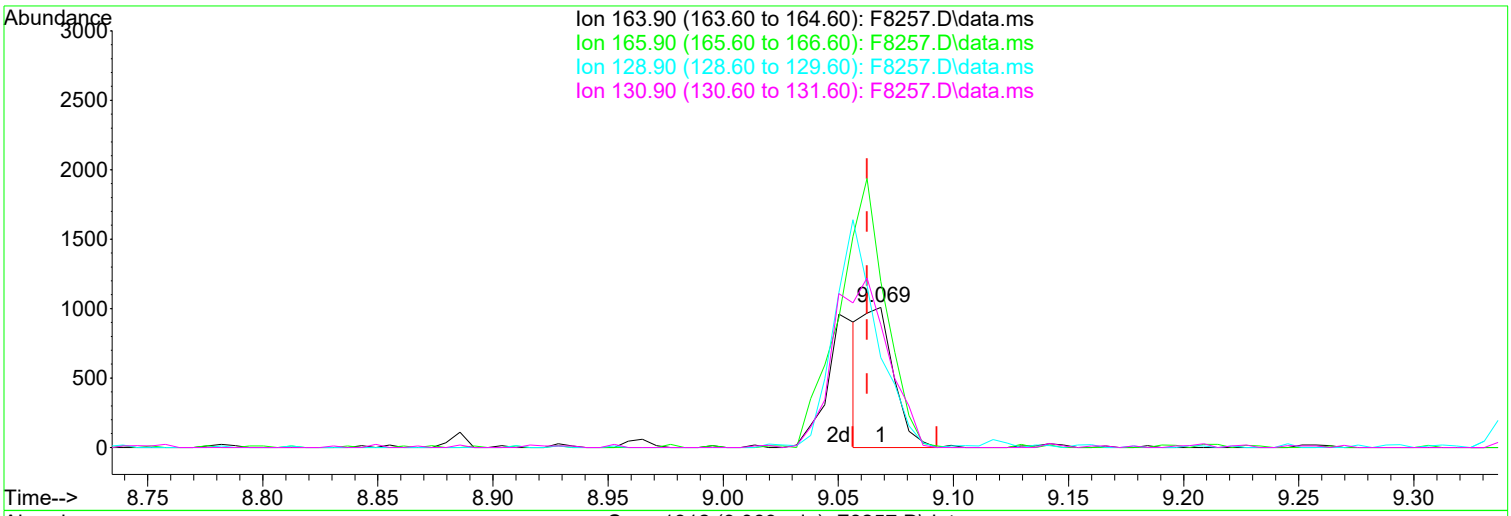
Poor integration.

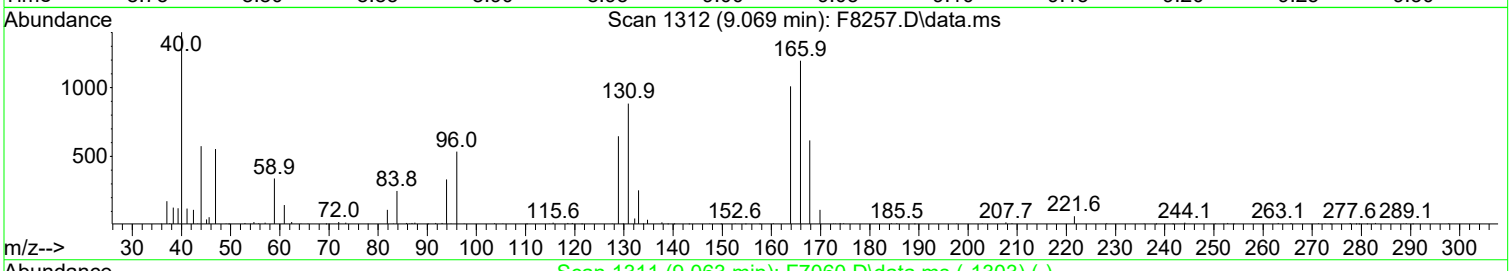
02/21/24

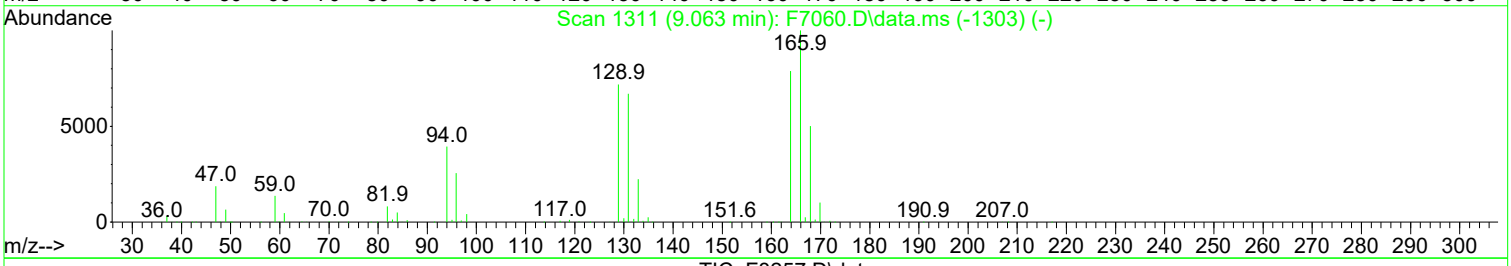
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8257.D
Acq On : 20 Feb 2024 05:18 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 09:00:55 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8257.D\data.ms

(72) Tetrachloroethene (P)

9.069min (+ 0.006) 0.41 ug/L

response 958

Ion	Exp%	Act%
163.90	100.00	100.00
165.90	126.90	118.42
128.90	91.10	63.96#
130.90	84.90	87.62

Manual Integration:

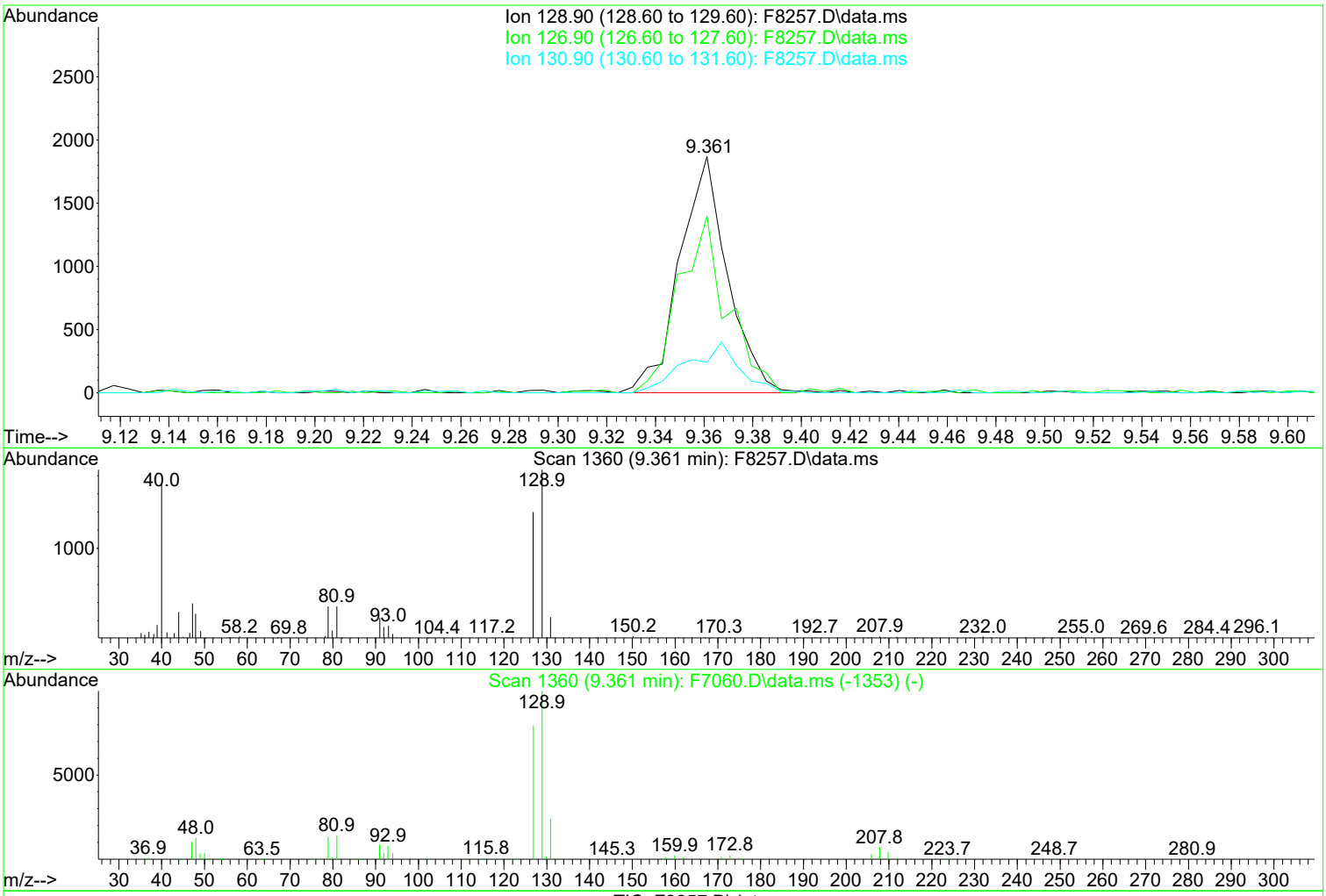
Before

02/21/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8257.D
Acq On : 20 Feb 2024 05:18 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 09:00:55 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration



TIC: F8257.D\data.ms

(75) Dibromochloromethane (P)

9.361min (+ 0.000) 0.88 ug/L m

response 2568

Ion	Exp%	Act%
128.90	100.00	100.00
126.90	79.40	74.95
130.90	24.10	12.79
0.00	0.00	0.00

Manual Integration:

After

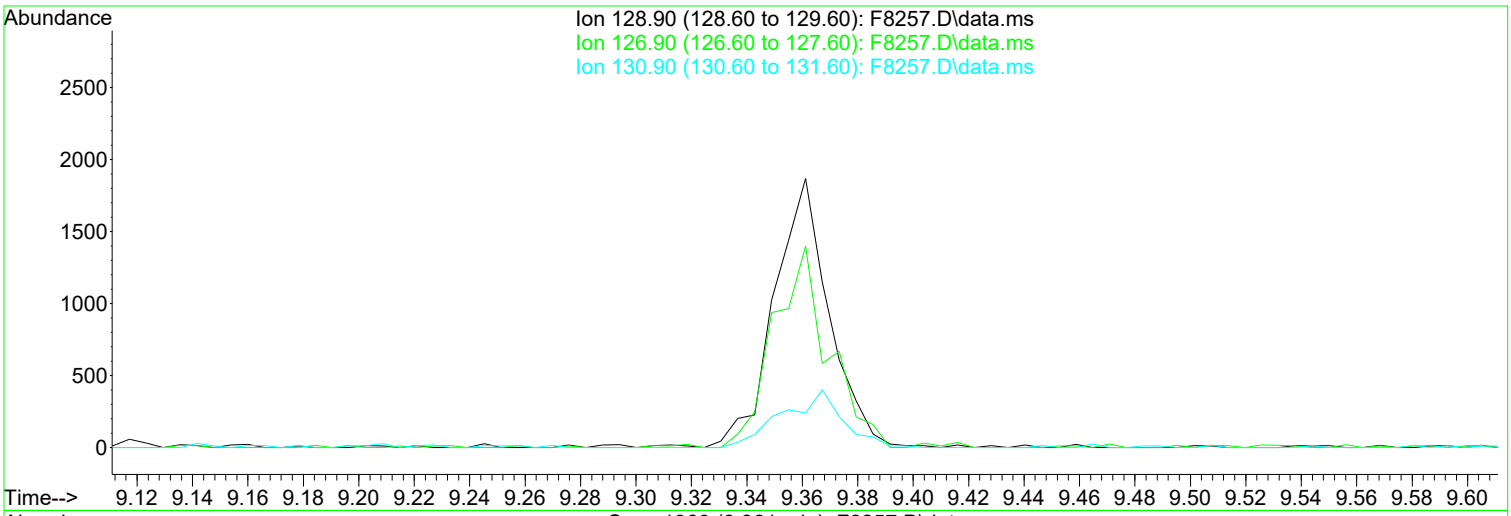
Peak not found.

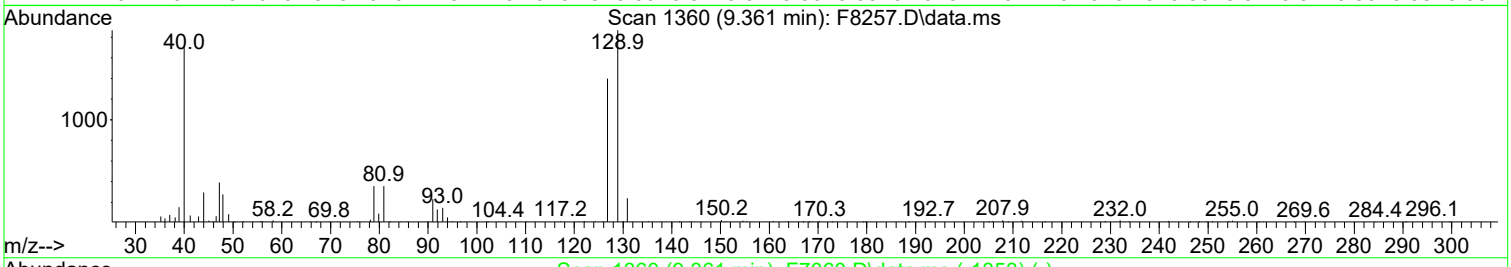
02/21/24

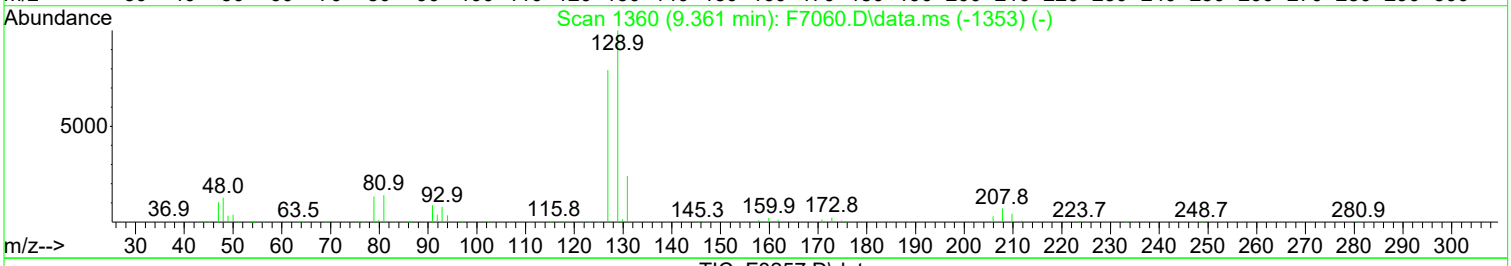
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8257.D
Acq On : 20 Feb 2024 05:18 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 09:00:55 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8257.D\data.ms

(75) Dibromochloromethane (P)

9.361min (-9.361) 0.00 ug/L

response 0

Ion	Exp%	Act%
128.90	100.00	0.00
126.90	79.40	0.00#
130.90	24.10	0.00#
0.00	0.00	0.00

Manual Integration:

Before

02/21/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8257.D
Acq On : 20 Feb 2024 05:18 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 09:00:55 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.356	168	310059	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.484	114	500290	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.934	117	463431	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	12.031	152	229372	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.222	113	36460	11.84	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 23.68%#				
48) surr1,1,2-dichloroetha...	5.770	65	51000	13.13	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 26.26%#				
65) SURR3,Toluene-d8	8.367	98	146297	12.03	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 24.06%#				
70) SURR2,BFB	11.044	95	50580	11.01	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 22.02%#				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.155	51	2989m	1.113	ug/L		
3) Dichlorodifluoromethane	1.119	85	3514m	0.999	ug/L		
4) Chloromethane	1.271	50	4253m	1.403	ug/L		
5) Vinyl Chloride	1.326	62	4011m	1.233	ug/L		
6) Bromomethane	1.552	94	3565	1.998	ug/L		90
7) Chloroethane	1.631	64	3531	1.562	ug/L		90
8) Freon 21	1.783	67	5543	1.172	ug/L		89
9) Trichlorofluoromethane	1.820	101	5862	1.501	ug/L		96
10) Diethyl Ether	2.058	59	3102	1.273	ug/L	#	73
11) Freon 123a	2.064	67	3483	1.252	ug/L		95
12) Freon 123	2.119	83	3922	1.157	ug/L		92
13) Acrolein	2.174	56	3871	5.826	ug/L		96
14) 1,1-Diclethene	2.241	96	2245	0.987	ug/L		86
15) Freon 113	2.241	101	2441	1.097	ug/L		80
16) Acetone	2.302	43	2364m	1.590	ug/L		
17) 2-Propanol	2.442	45	5220	20.796	ug/L		94
18) Iodomethane	2.381	142	1778	0.489	ug/L		99
19) Carbon Disulfide	2.430	76	6438	1.054	ug/L		97
20) Acetonitrile	2.576	41	3269m	5.420	ug/L		
21) Allyl Chloride	2.570	76	1536	1.173	ug/L	#	85
22) Methyl Acetate	2.606	43	5337	1.526	ug/L		88
23) Methylene Chloride	2.698	84	3566	1.331	ug/L	#	83
24) TBA	2.850	59	9370	21.242	ug/L		86
25) Acrylonitrile	2.984	53	8211	6.016	ug/L		78
26) Methyl-t-Butyl Ether	2.990	73	9487	1.107	ug/L		88
27) trans-1,2-Dichloroethene	2.984	96	2655	1.066	ug/L	#	81
28) 1,1-Diclethane	3.496	63	5076	1.179	ug/L		94
29) Vinyl Acetate	3.594	86	415m	1.029	ug/L		
30) DIPE	3.594	45	9380	1.302	ug/L		89
31) 2-Chloro-1,3-Butadiene	3.612	53	4378	1.140	ug/L		90
32) ETBE	4.118	59	8442m	1.126	ug/L		
33) 2,2-Dichloropropane	4.313	77	3366m	1.055	ug/L		
34) cis-1,2-Dichloroethene	4.338	96	3415	1.166	ug/L	#	81
35) 2-Butanone	4.423	43	2840	1.525	ug/L		85
36) Propionitrile	4.533	54	4319	7.413	ug/L		95
37) Bromochloromethane	4.746	130	2030m	1.041	ug/L		
38) Methacrylonitrile	4.771	67	1932	1.268	ug/L	#	72
39) Tetrahydrofuran	4.874	42	1874	1.600	ug/L		73
40) Chloroform	4.917	83	5436	1.199	ug/L		87

1st FNJ 02/21/24
2nd 02/21/24

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8257.D
Acq On : 20 Feb 2024 05:18 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 09:00:55 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) 1,1,1-Trichloroethane	5.197	97	3703	1.027 ug/L	#	77
42) TAME	6.081	73	8060	1.101 ug/L		83
44) Cyclohexane	5.252	41	3038m	1.378 ug/L		
46) Carbontetrachloride	5.472	117	2926m	0.881 ug/L		
47) 1,1-Dichloropropene	5.484	75	3739	1.023 ug/L		89
49) Benzene	5.825	78	10900	1.001 ug/L		83
50) 1,2-Dichloroethane	5.898	62	5071	1.198 ug/L		91
51) Iso-Butyl Alcohol	5.904	43	3019	15.984 ug/L	#	71
52) n-Heptane	6.295	43	3447	1.249 ug/L	#	81
53) 1-Butanol	6.898	56	3591	29.521 ug/L		98
54) Trichloroethene	6.813	130	2769	0.941 ug/L	#	80
55) Methylcyclohexane	7.038	55	3407	1.057 ug/L	#	89
56) 1,2-Diclpropane	7.118	63	2784	1.032 ug/L		82
57) Dibromomethane	7.270	93	2310	1.177 ug/L	#	77
58) 1,4-Dioxane	7.355	88	1439	21.150 ug/L		91
59) Methyl Methacrylate	7.362	69	2448	0.991 ug/L	#	90
60) Bromodichloromethane	7.514	83	3448	0.964 ug/L		88
61) 2-Nitropropane	7.825	41	1512	1.823 ug/L		86
62) 2-Chloroethylvinyl Ether	7.935	63	1779m	1.081 ug/L		
63) cis-1,3-Dichloropropene	8.081	75	3272	0.772 ug/L		95
64) 4-Methyl-2-pentanone	8.306	43	4571	1.234 ug/L		91
66) Toluene	8.447	91	12267	1.024 ug/L		98
67) trans-1,3-Dichloropropene	8.745	75	3013	0.792 ug/L		94
68) Ethyl Methacrylate	8.892	69	4080	0.952 ug/L		85
69) 1,1,2-Trichloroethane	8.953	97	3054	1.034 ug/L	#	79
72) Tetrachloroethene	9.069	164	1823m	0.787 ug/L		
73) 2-Hexanone	9.257	43	2985	1.080 ug/L		93
74) 1,3-Dichloropropane	9.123	76	5505	1.123 ug/L		94
75) Dibromochloromethane	9.361	129	2568m	0.880 ug/L		
76) N-Butyl Acetate	9.410	43	5322	1.085 ug/L		81
77) 1,2-Dibromoethane	9.459	107	3140	1.045 ug/L		86
78) 3-Chlorobenzotrifluoride	9.983	180	3780	0.873 ug/L	#	87
79) Chlorobenzene	9.965	112	8092	1.004 ug/L		87
80) 4-Chlorobenzotrifluoride	10.044	180	3296	0.846 ug/L		85
81) 1,1,1,2-Tetrachloroethane	10.056	131	2291	0.858 ug/L		86
82) Ethylbenzene	10.087	106	3836	0.934 ug/L	#	84
83) (m+p)Xylene	10.196	106	10319	2.000 ug/L	#	76
84) o-Xylene	10.574	106	5205	1.026 ug/L	#	73
85) Styrene	10.586	104	7136	0.802 ug/L		94
86) Bromoform	10.751	173	1372	0.672 ug/L		88
87) 2-Chlorobenzotrifluoride	10.830	180	3680	0.859 ug/L		82
88) Isopropylbenzene	10.910	105	12313	0.952 ug/L		93
89) Cyclohexanone	11.001	55	11628	14.937 ug/L		92
90) trans-1,4-Dichloro-2-B...	11.245	53	1410	1.147 ug/L	#	69
92) 1,1,2,2-Tetrachloroethane	11.196	83	3908	0.983 ug/L		87
93) Bromobenzene	11.166	156	3175	0.958 ug/L		95
94) 1,2,3-Trichloropropane	11.227	110	1376	0.978 ug/L	#	84
95) n-Propylbenzene	11.275	91	13897	0.991 ug/L		93
96) 2-Chlorotoluene	11.342	91	9018	1.044 ug/L		94
97) 3-Chlorotoluene	11.397	91	8556	0.949 ug/L		96
98) 4-Chlorotoluene	11.440	91	9718	0.984 ug/L		92
99) 1,3,5-Trimethylbenzene	11.434	105	9466	0.916 ug/L		89
100) tert-Butylbenzene	11.708	119	8574	0.982 ug/L		97
101) 1,2,4-Trimethylbenzene	11.751	105	9866	0.941 ug/L		98
102) 3,4-Dichlorobenzotrifl...	11.812	214	2800	0.871 ug/L		88
103) sec-Butylbenzene	11.891	105	11353	0.937 ug/L		99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8257.D
Acq On : 20 Feb 2024 05:18 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 09:00:55 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
104) p-Isopropyltoluene	12.019	119	9079	0.832	ug/L		92
105) 1,3-Dclbenz	11.976	146	5704	0.927	ug/L		90
106) 1,4-Dclbenz	12.050	146	6419	1.014	ug/L		88
107) 2,4-Dichlorobenzotrifl...	12.111	214	2563	0.884	ug/L		95
108) 2,5-Dichlorobenzotrifl...	12.153	214	2566	0.780	ug/L		89
109) n-Butylbenzene	12.354	91	7500	0.805	ug/L		93
110) 1,2-Dclbenz	12.361	146	5631	0.921	ug/L		97
111) 1,2-Dibromo-3-chloropr...	13.001	157	821	0.804	ug/L	#	76
112) Trielution Dichlorotol...	13.110	125	13702	2.540	ug/L		92
113) 1,3,5-Trichlorobenzene	13.159	180	3955	0.866	ug/L		90
114) Coelution Dichlorotoluene	13.440	125	10209	1.725	ug/L		92
115) 1,2,4-Tcbenzene	13.647	180	4030	0.895	ug/L		99
116) Hexachlorobt	13.781	225	1617	0.818	ug/L	#	78
117) Naphthalen	13.842	128	11786	0.823	ug/L		96
118) 1,2,3-Tclbenzene	14.031	180	3811	0.853	ug/L	#	79
119) 2,4,5-Trichlorotoluene	14.616	159	2037	0.611	ug/L		98
120) 2,3,6-Trichlorotoluene	14.702	159	2206	0.736	ug/L		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
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Acq On : 20 Feb 2024 05:18 pm
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Quant Time: Feb 21 09:00:55 2024
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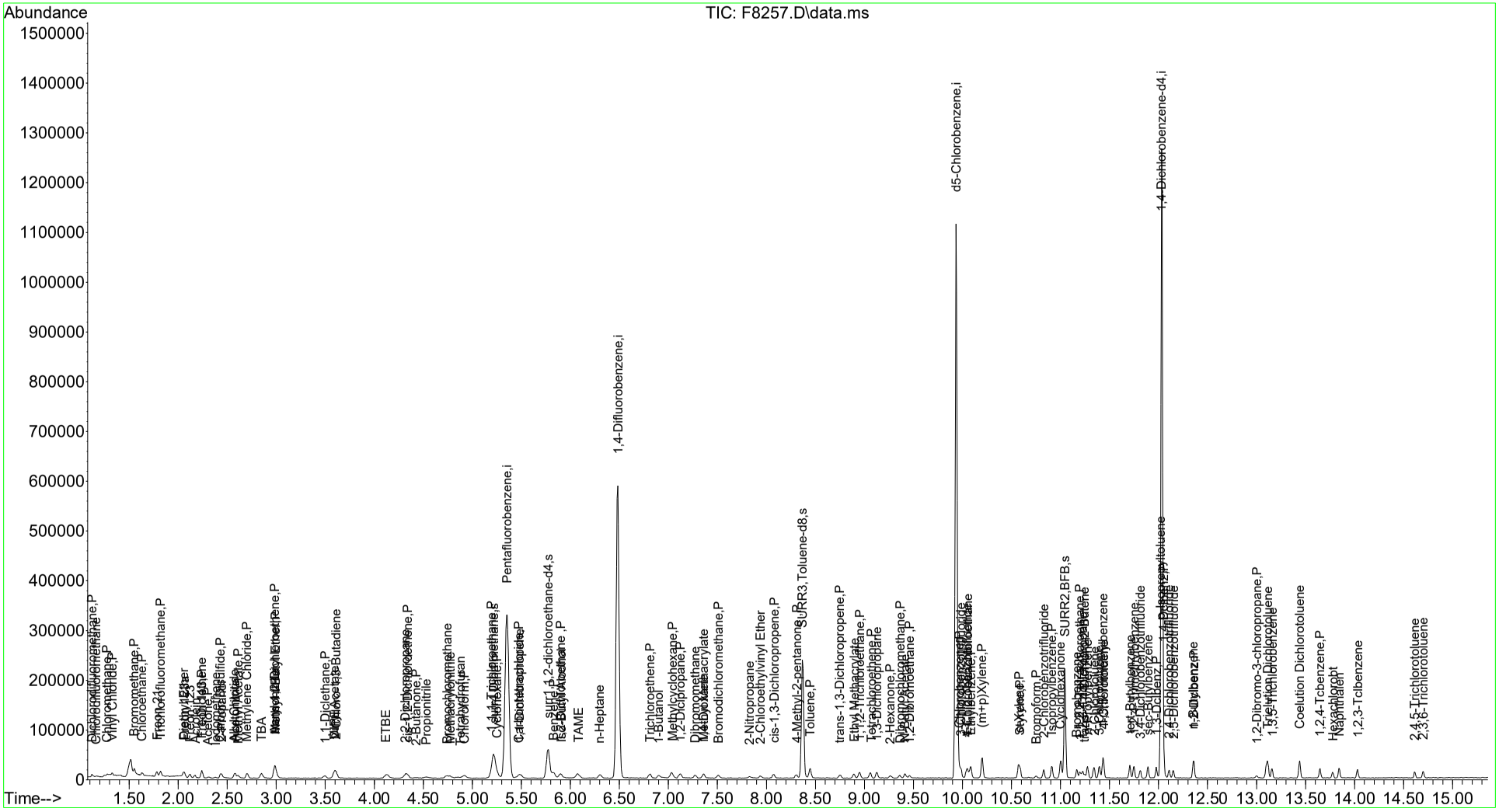
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration

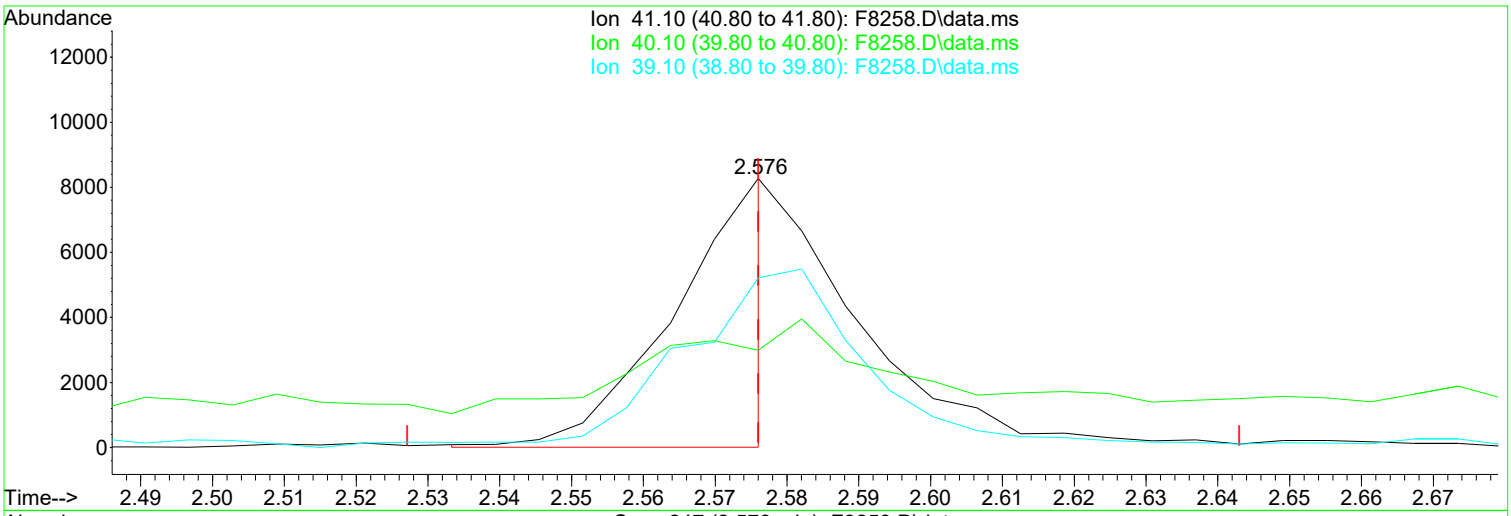


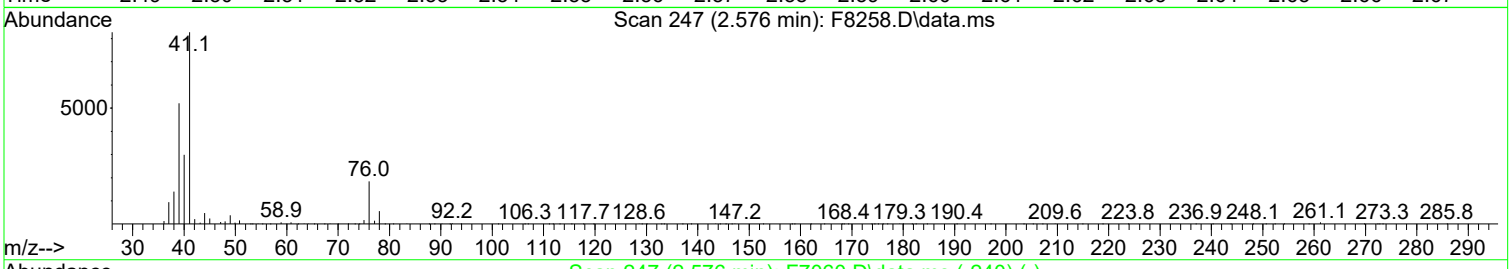
1st 02/21/24
2nd 02/21/24

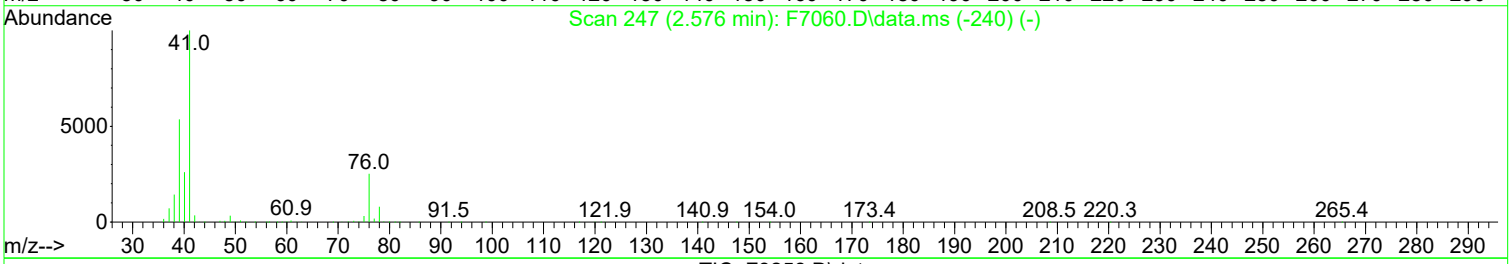
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8258.D
Acq On : 20 Feb 2024 05:40 pm
Operator : F.NAEGLER
Sample : 2.0 PPB STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 21 09:05:54 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8258.D\data.ms

(20) Acetonitrile

2.576min (-0.000) 13.06 ug/L m

response 7966

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	26.20	36.20
39.10	53.50	63.05
0.00	0.00	0.00

Manual Integration:

After

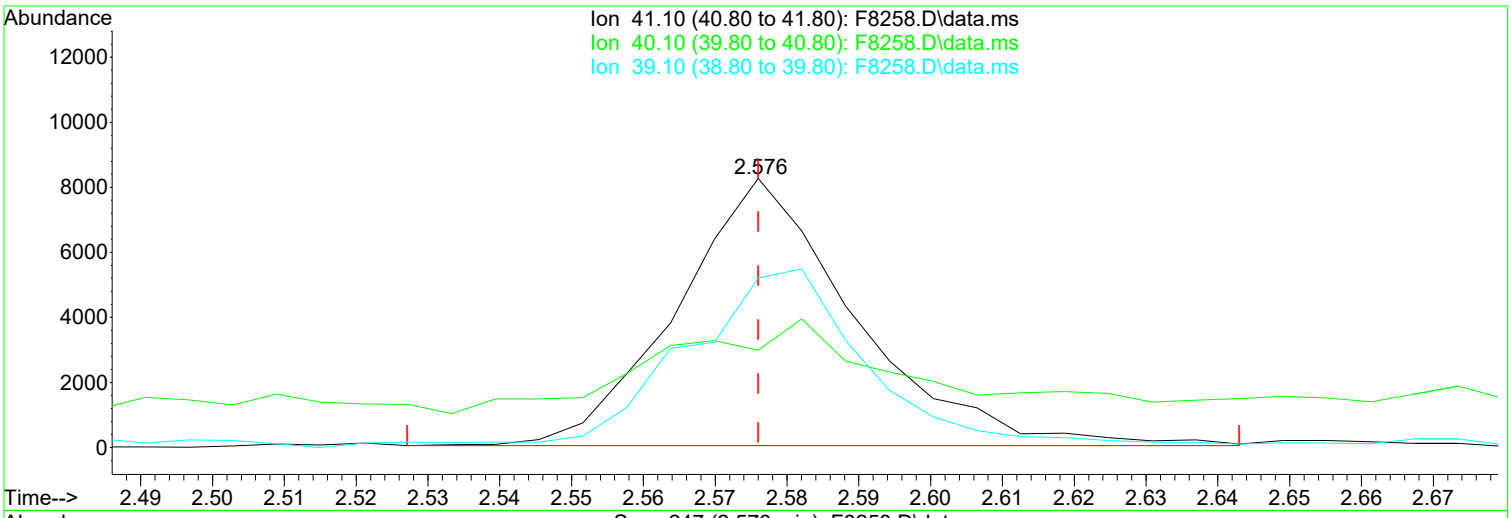
Poor integration.

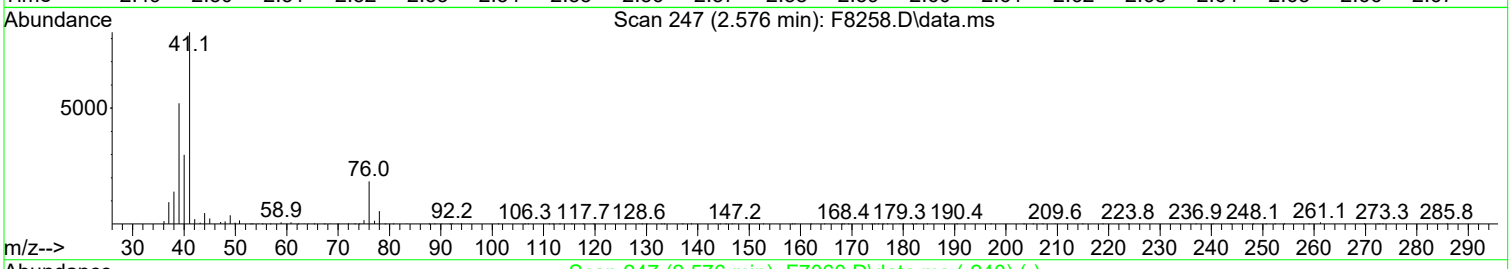
02/21/24

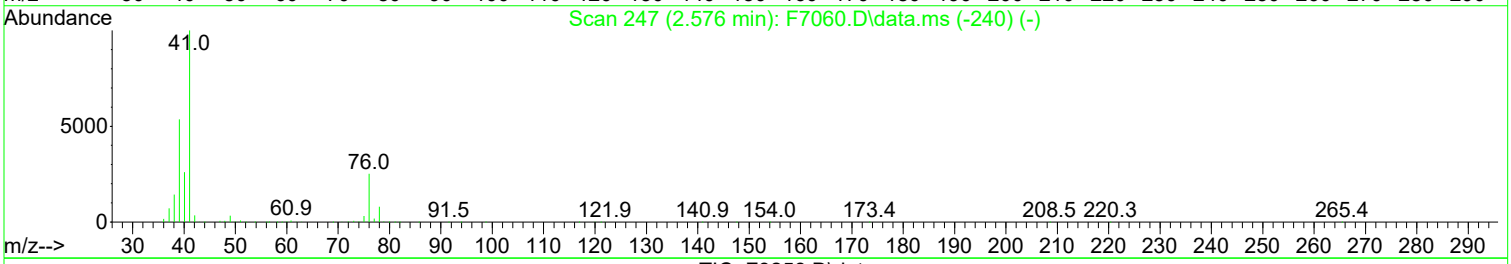
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8258.D
Acq On : 20 Feb 2024 05:40 pm
Operator : F.NAEGLER
Sample : 2.0 PPB STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 21 09:05:54 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8258.D\data.ms

(20) Acetonitrile

2.576min (-0.000) 23.33 ug/L

response 14231

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	26.20	36.20
39.10	53.50	63.05
0.00	0.00	0.00

Manual Integration:

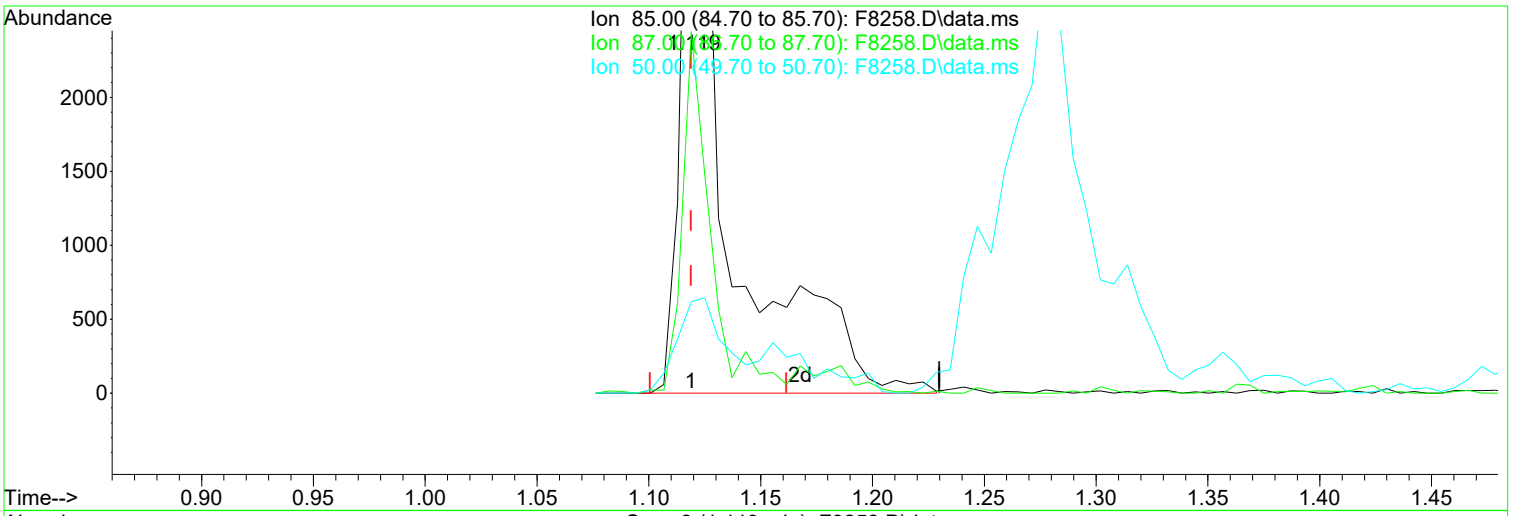
Before

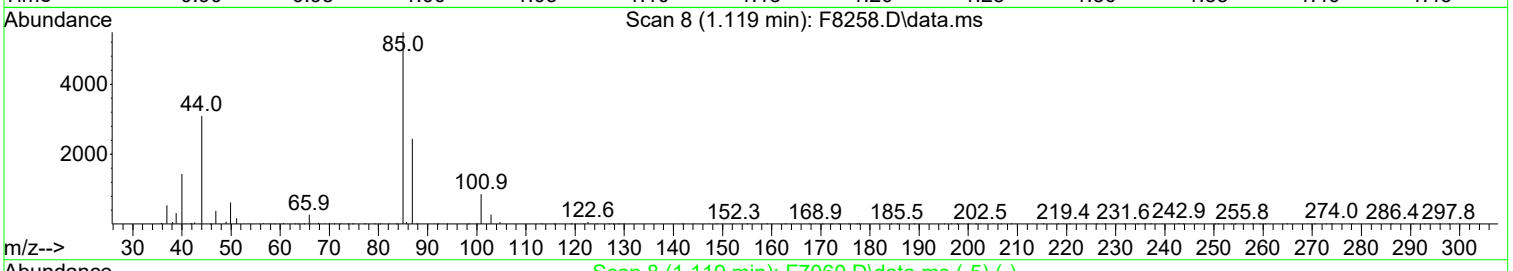
02/21/24

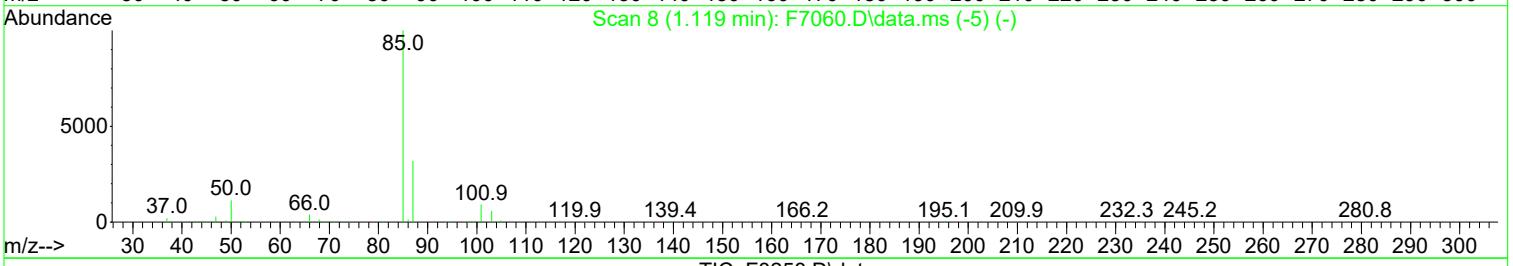
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8258.D
Acq On : 20 Feb 2024 05:40 pm
Operator : F.NAEGLER
Sample : 2.0 PPB STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 21 09:05:54 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8258.D\data.ms

(3) Dichlorodifluoromethane (P)

1.119min (-0.000) 1.93 ug/L m

response 6852

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.80	44.56
50.00	11.40	11.28
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

02/21/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8258.D
Acq On : 20 Feb 2024 05:40 pm
Operator : F.NAEGLER
Sample : 2.0 PPB STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 21 09:05:54 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
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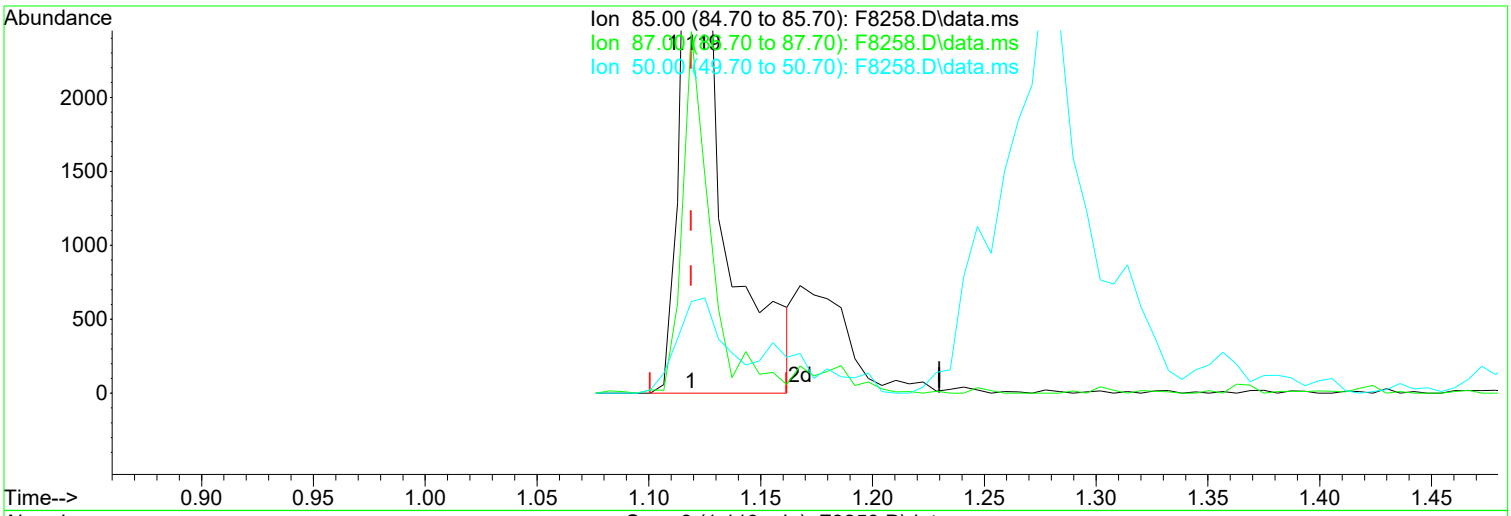
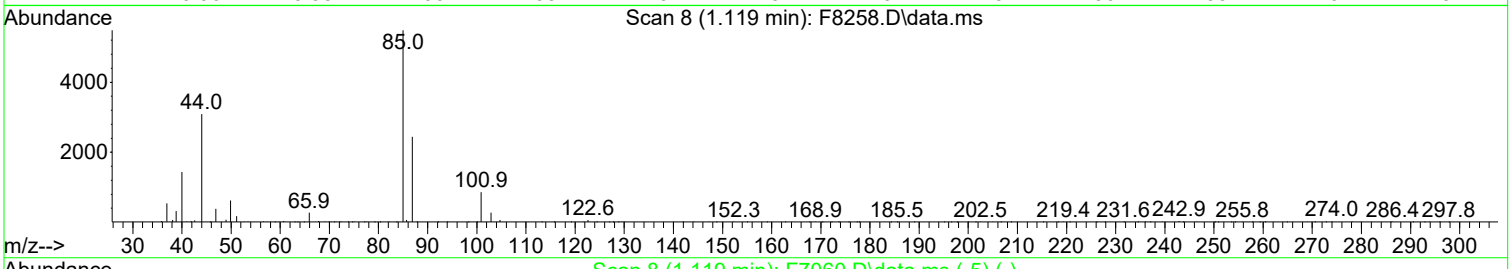
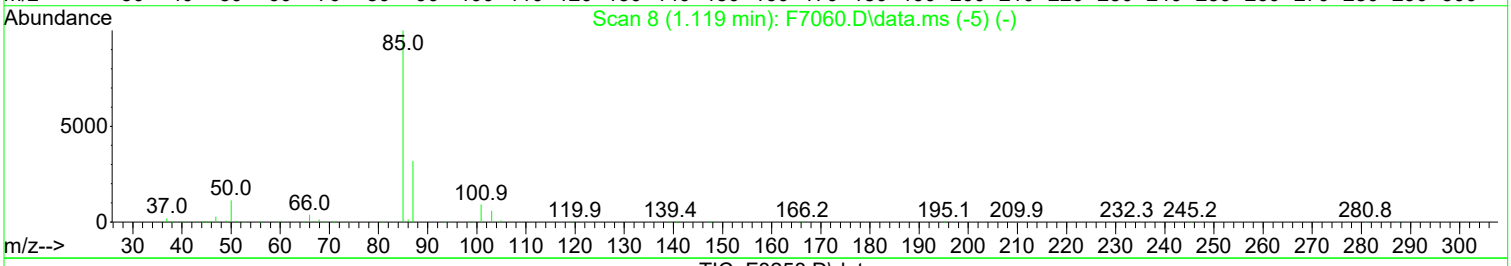
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8258.D\data.ms

(3) Dichlorodifluoromethane (P)

1.119min (-0.000) 1.59 ug/L

response 5668

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.80	44.01
50.00	11.40	11.14
0.00	0.00	0.00

Manual Integration:

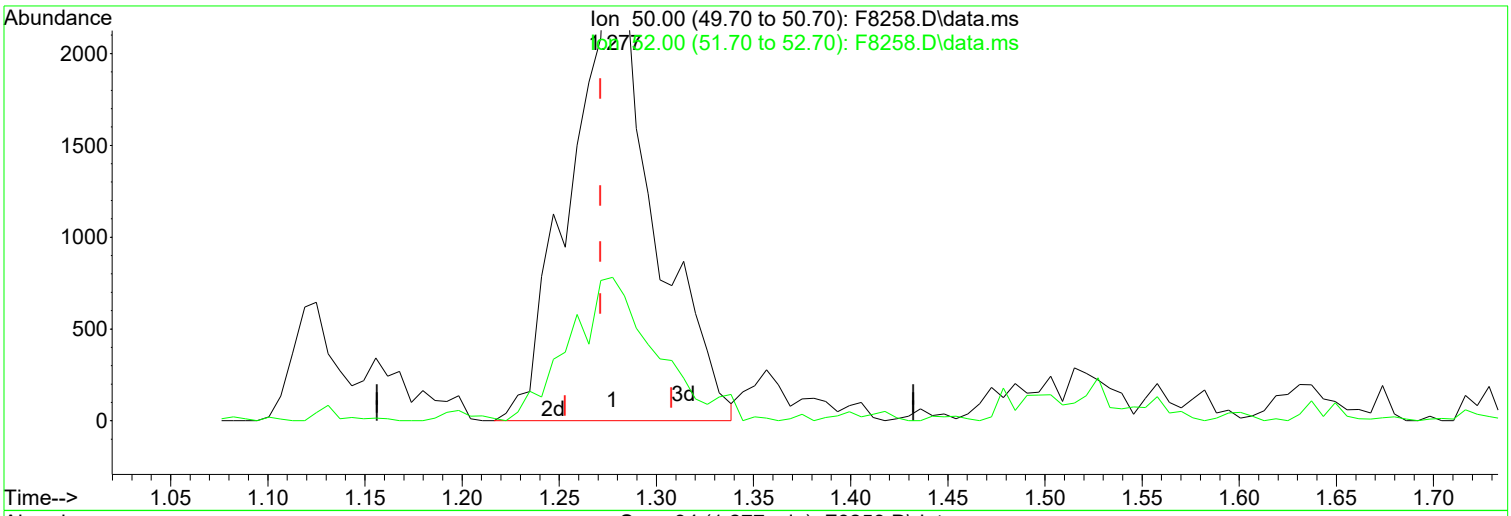
Before

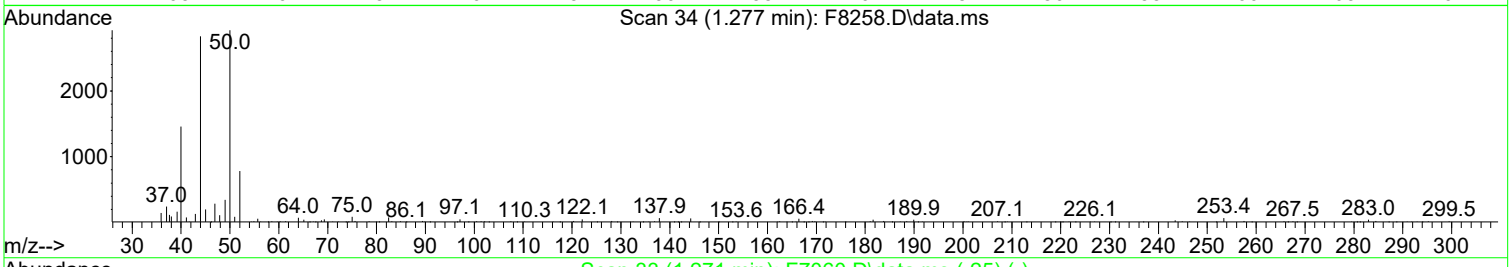
02/21/24

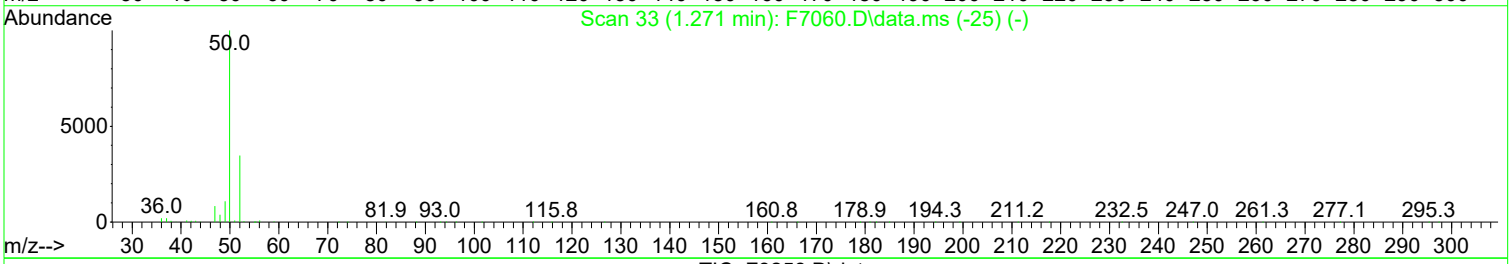
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8258.D
Acq On : 20 Feb 2024 05:40 pm
Operator : F.NAEGLER
Sample : 2.0 PPB STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 21 09:05:54 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8258.D\data.ms

(4) Chloromethane (P)

1.277min (+ 0.006) 2.45 ug/L m

response 7508

Ion	Exp%	Act%
50.00	100.00	100.00
52.00	34.50	26.77
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

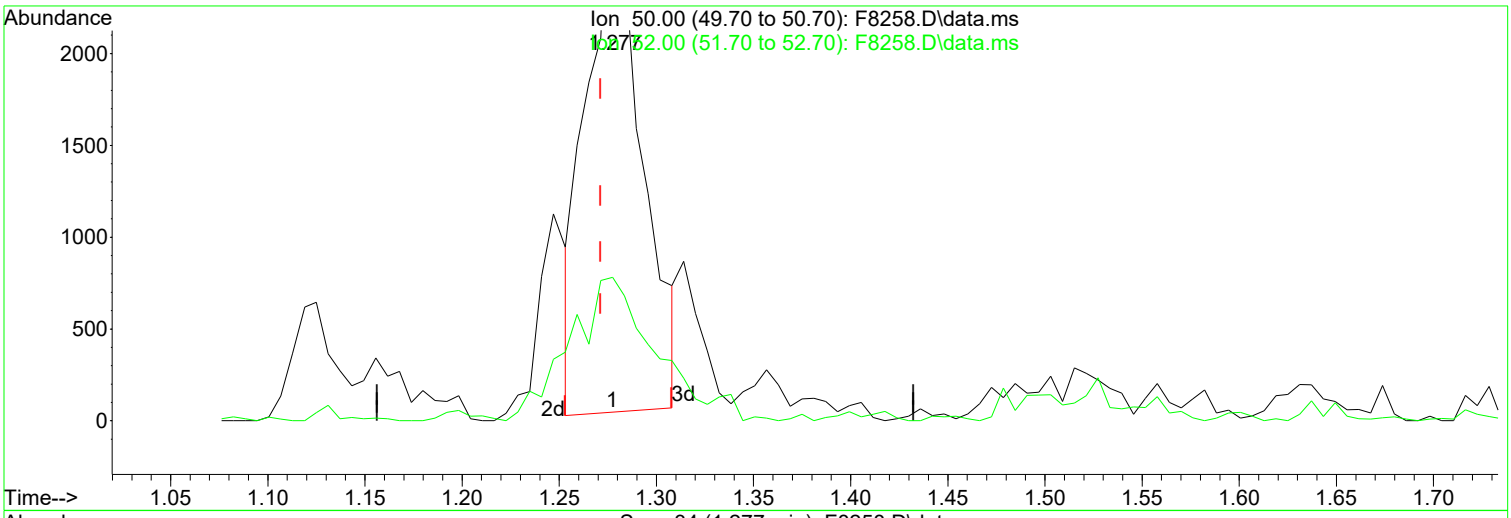
Poor integration.

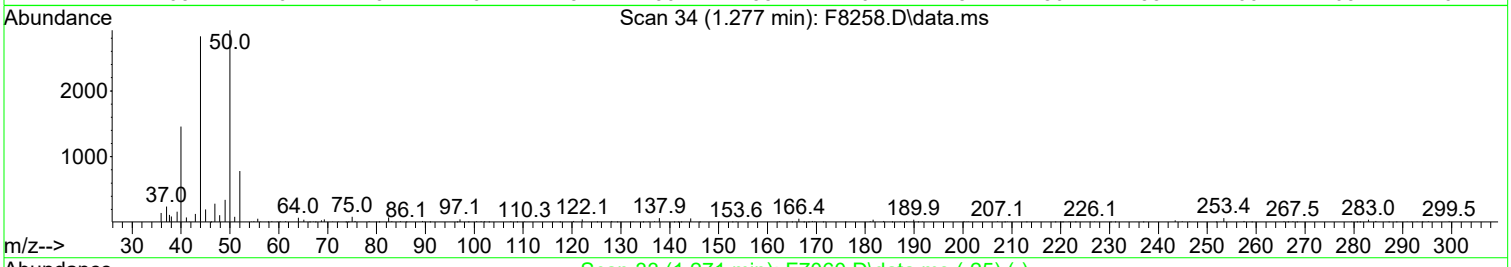
02/21/24

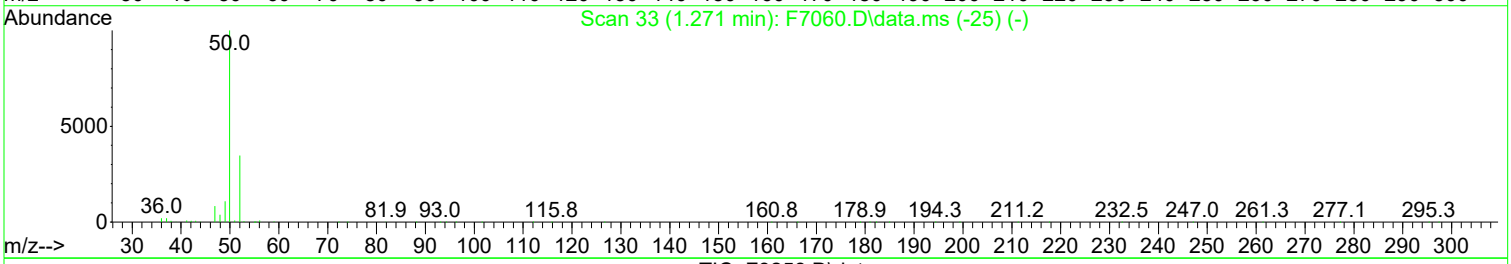
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8258.D
Acq On : 20 Feb 2024 05:40 pm
Operator : F.NAEGLER
Sample : 2.0 PPB STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 21 09:05:54 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8258.D\data.ms

(4) Chloromethane (P)

1.277min (+ 0.006) 1.77 ug/L

response 5415

Ion	Exp%	Act%
50.00	100.00	100.00
52.00	34.50	26.77
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

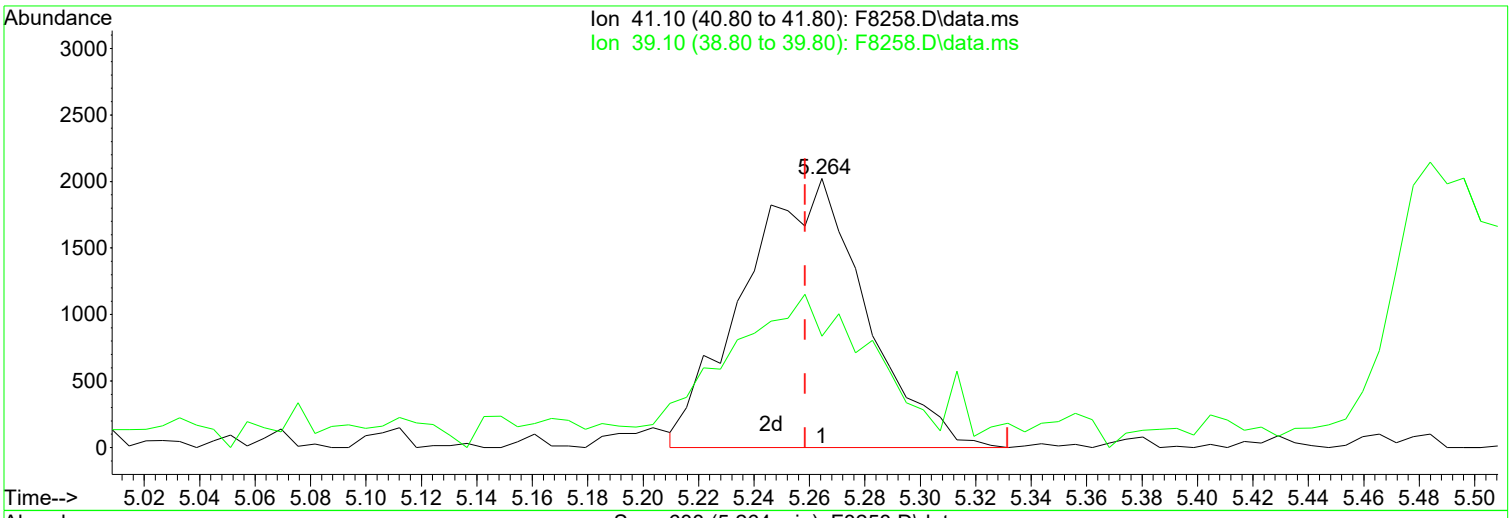
02/21/24

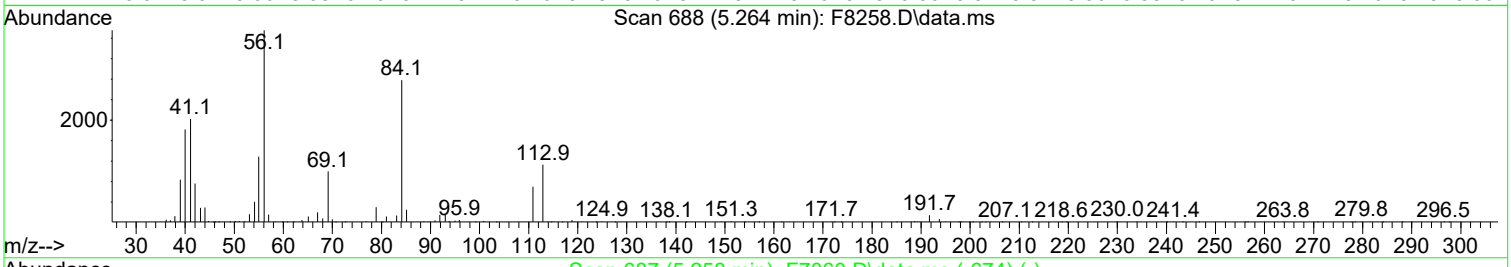
1st FN 02/21/24
2nd 02/21/24

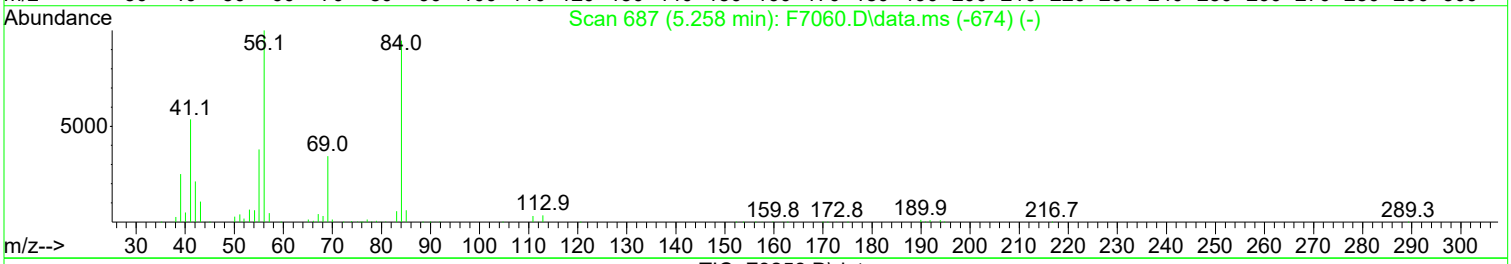
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8258.D
Acq On : 20 Feb 2024 05:40 pm
Operator : F.NAEGLER
Sample : 2.0 PPB STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 21 09:05:54 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8258.D\data.ms

(44) Cyclohexane (P)

5.264min (+ 0.006) 2.76 ug/L m

response 6151

Ion	Exp%	Act%
41.10	100.00	100.00
39.10	47.00	41.44
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

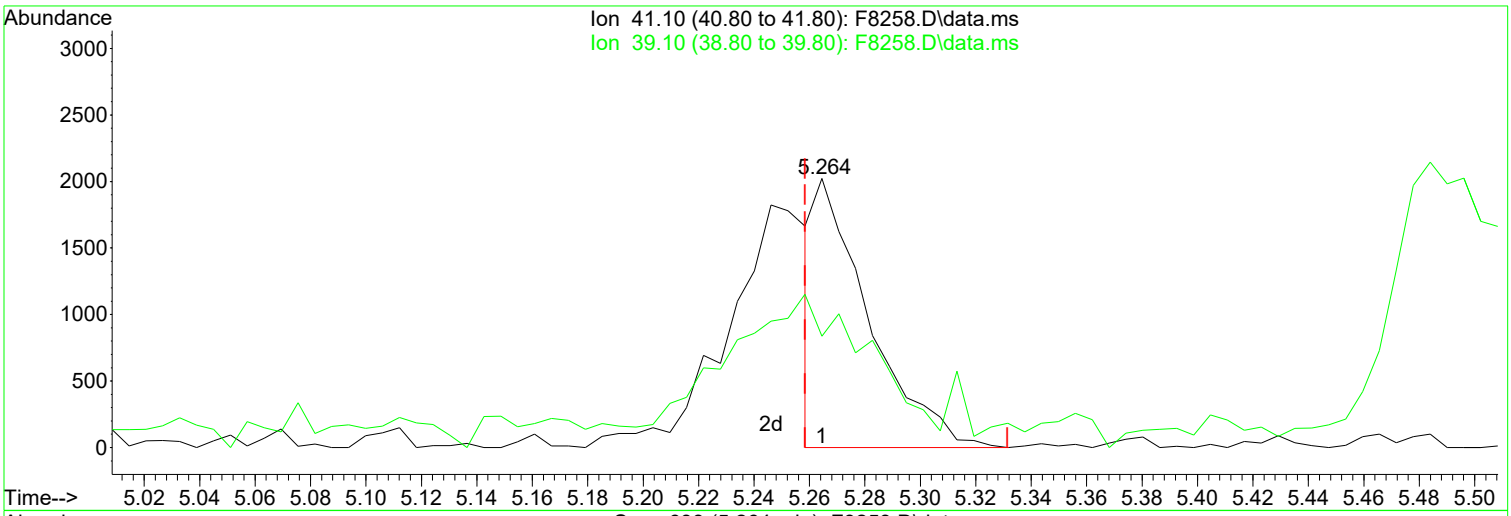
Poor integration.

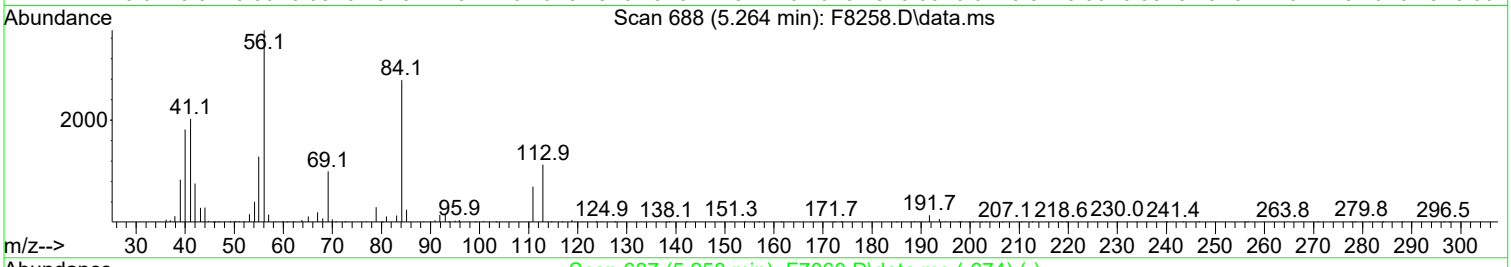
02/21/24

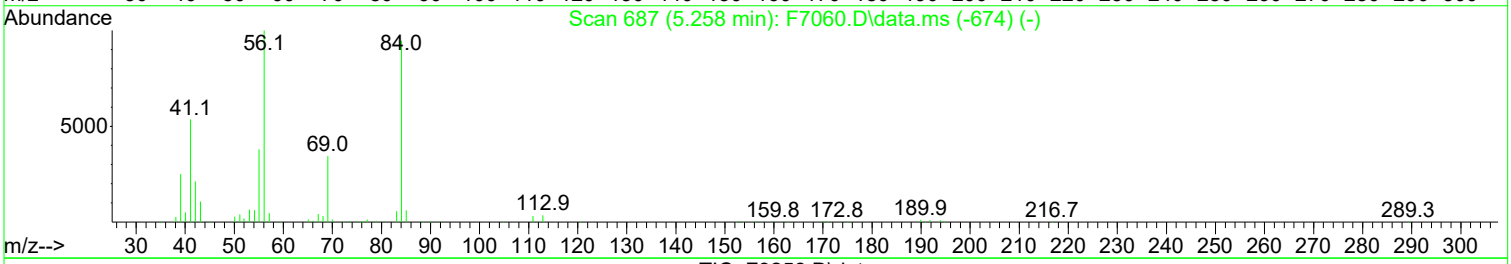
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8258.D
Acq On : 20 Feb 2024 05:40 pm
Operator : F.NAEGLER
Sample : 2.0 PPB STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 21 09:05:54 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8258.D\data.ms

(44) Cyclohexane (P)

5.264min (+ 0.006) 1.23 ug/L

response 2742

Ion	Exp%	Act%
41.10	100.00	100.00
39.10	47.00	41.44
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

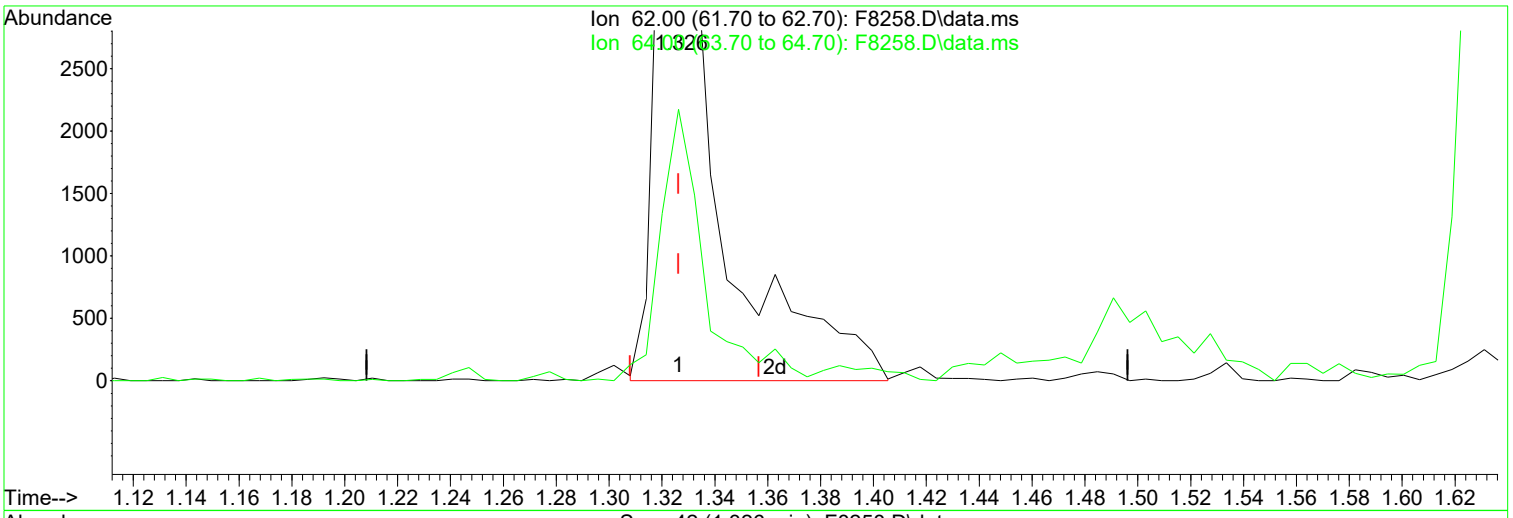
Before

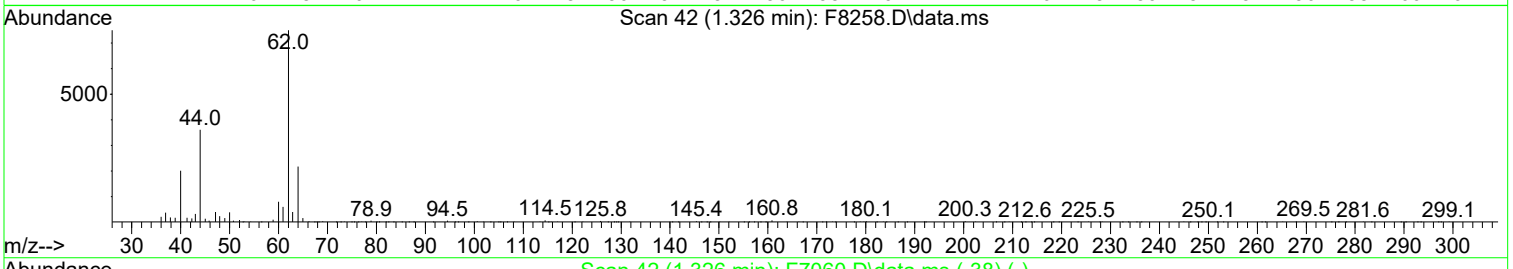
02/21/24

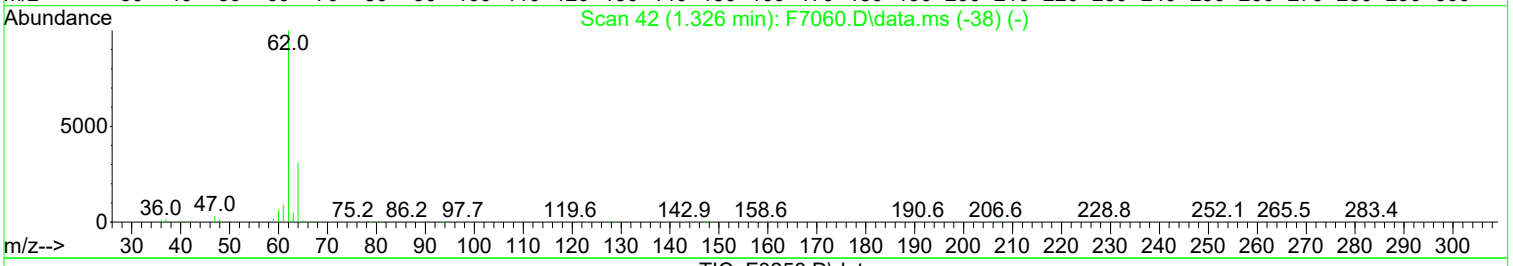
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8258.D
Acq On : 20 Feb 2024 05:40 pm
Operator : F.NAEGLER
Sample : 2.0 PPB STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 21 09:05:54 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8258.D\data.ms

(5) Vinyl Chloride (P)

1.326min (-0.000) 2.65 ug/L m

response 8727

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	31.00	29.02
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

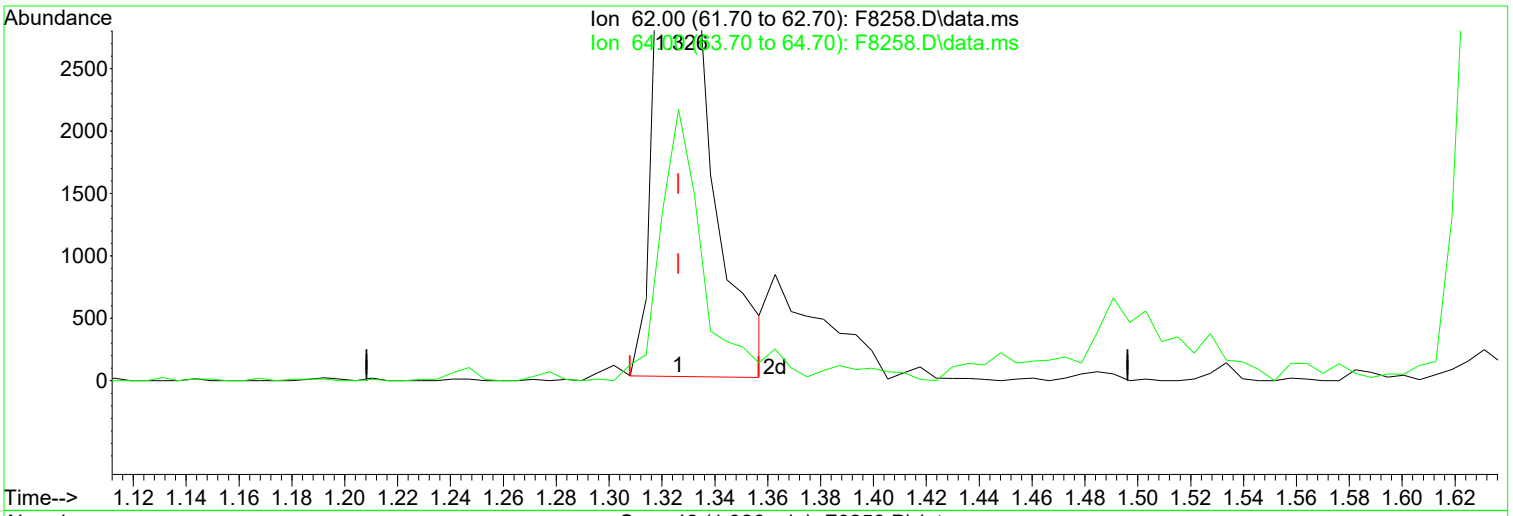
Poor integration.

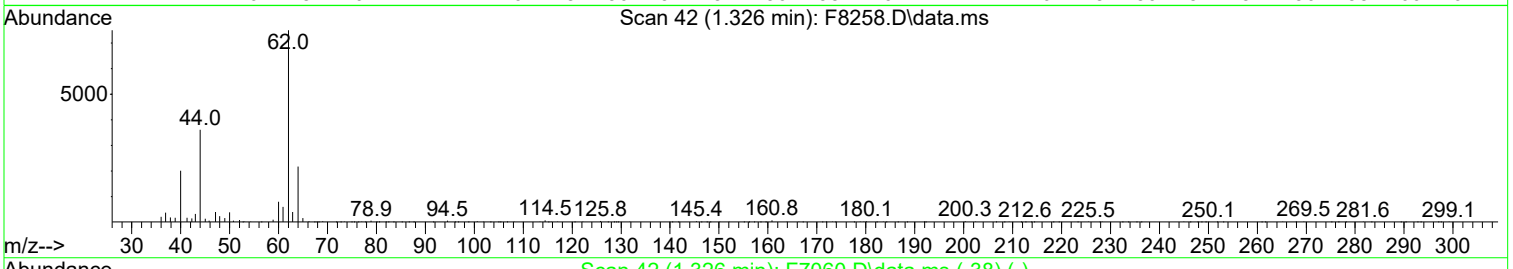
02/21/24

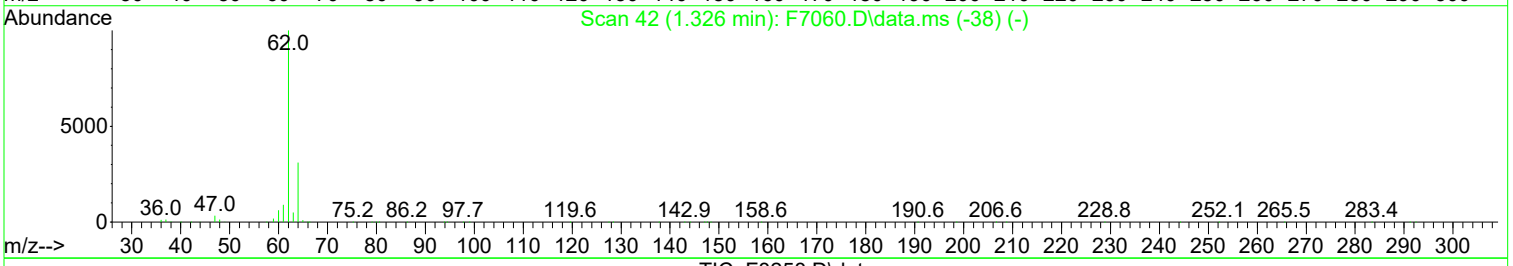
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8258.D
Acq On : 20 Feb 2024 05:40 pm
Operator : F.NAEGLER
Sample : 2.0 PPB STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 21 09:05:54 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8258.D\data.ms

(5) Vinyl Chloride (P)

1.326min (-0.000) 2.24 ug/L

response 7374

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	31.00	29.02
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

02/21/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8258.D
Acq On : 20 Feb 2024 05:40 pm
Operator : F.NAEGLER
Sample : 2.0 PPB STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 21 09:05:54 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.356	168	313560	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.484	114	505734	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.934	117	466827	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	12.038	152	234199	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.216	113	37489	12.05	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 24.10%#				
48) surr1,1,2-dichloroetha...	5.770	65	51367	13.08	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 26.16%#				
65) SURR3,Toluene-d8	8.368	98	151112	12.30	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 24.60%#				
70) SURR2,BFB	11.044	95	51893	11.17	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 22.34%#				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.162	51	5751	2.118	ug/L		85
3) Dichlorodifluoromethane	1.119	85	6852m	1.926	ug/L		
4) Chloromethane	1.277	50	7508m	2.449	ug/L		
5) Vinyl Chloride	1.326	62	8727m	2.653	ug/L		
6) Bromomethane	1.552	94	9424	5.222	ug/L		84
7) Chloroethane	1.631	64	6284	2.749	ug/L		96
8) Freon 21	1.783	67	13862	2.897	ug/L		92
9) Trichlorofluoromethane	1.820	101	10876	2.754	ug/L		92
10) Diethyl Ether	2.052	59	6579	2.670	ug/L	#	81
11) Freon 123a	2.064	67	8209	2.919	ug/L		80
12) Freon 123	2.119	83	7975	2.326	ug/L		93
13) Acrolein	2.168	56	7452	11.089	ug/L	#	71
14) 1,1-Diclethene	2.247	96	4957	2.156	ug/L		91
15) Freon 113	2.241	101	4375	1.944	ug/L		91
16) Acetone	2.308	43	4858	3.231	ug/L		87
17) 2-Propanol	2.448	45	11471	45.190	ug/L		96
18) Iodomethane	2.381	142	3837	1.043	ug/L		85
19) Carbon Disulfide	2.430	76	13708	2.220	ug/L		96
20) Acetonitrile	2.576	41	7966m	13.060	ug/L		
21) Allyl Chloride	2.576	76	2772	2.093	ug/L	#	54
22) Methyl Acetate	2.613	43	9975	2.821	ug/L		85
23) Methylene Chloride	2.704	84	6781	2.502	ug/L		89
24) TBA	2.850	59	19582	43.896	ug/L		77
25) Acrylonitrile	2.978	53	16915	12.256	ug/L		87
26) Methyl-t-Butyl Ether	2.991	73	19566	2.257	ug/L		98
27) trans-1,2-Dichloroethene	2.984	96	5892	2.339	ug/L	#	71
28) 1,1-Diclethane	3.490	63	10766	2.472	ug/L		96
29) Vinyl Acetate	3.594	86	638	1.564	ug/L	#	25
30) DIPE	3.600	45	18013	2.472	ug/L		94
31) 2-Chloro-1,3-Butadiene	3.606	53	9329	2.401	ug/L		97
32) ETBE	4.124	59	17375	2.293	ug/L		91
33) 2,2-Dichloropropane	4.320	77	7007	2.172	ug/L		86
34) cis-1,2-Dichloroethene	4.332	96	5518	1.863	ug/L	#	75
35) 2-Butanone	4.417	43	5782	3.069	ug/L		86
36) Propionitrile	4.521	54	8028	13.626	ug/L		86
37) Bromochloromethane	4.728	130	4376	2.220	ug/L		89
38) Methacrylonitrile	4.777	67	3750	2.433	ug/L		89
39) Tetrahydrofuran	4.844	42	3742	3.159	ug/L	#	70
40) Chloroform	4.923	83	10986	2.396	ug/L		88

1st FNJ 02/21/24
2nd 02/21/24

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8258.D
Acq On : 20 Feb 2024 05:40 pm
Operator : F.NAEGLER
Sample : 2.0 PPB STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 21 09:05:54 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 1,1,1-Trichloroethane	5.197	97	8385	2.299	ug/L		92
42) TAME	6.075	73	16681	2.253	ug/L		91
44) Cyclohexane	5.264	41	6151m	2.760	ug/L		
46) Carbontetrachloride	5.478	117	5322	1.585	ug/L	#	83
47) 1,1-Dichloropropene	5.484	75	7304	1.977	ug/L		80
49) Benzene	5.831	78	22647	2.057	ug/L		93
50) 1,2-Dichloroethane	5.898	62	10410	2.433	ug/L		95
51) Iso-Butyl Alcohol	5.911	43	6747	35.336	ug/L		100
52) n-Heptane	6.301	43	7041	2.524	ug/L	#	80
53) 1-Butanol	6.898	56	7831	63.685	ug/L		85
54) Trichloroethene	6.807	130	6266	2.106	ug/L	#	84
55) Methylcyclohexane	7.032	55	7414	2.276	ug/L		95
56) 1,2-Diclpropane	7.118	63	5990	2.198	ug/L		88
57) Dibromomethane	7.270	93	4569	2.302	ug/L	#	77
58) 1,4-Dioxane	7.356	88	3031	44.070	ug/L		86
59) Methyl Methacrylate	7.362	69	4979	1.994	ug/L	#	56
60) Bromodichloromethane	7.508	83	7445	2.060	ug/L		98
61) 2-Nitropropane	7.831	41	2977	3.551	ug/L		97
62) 2-Chloroethylvinyl Ether	7.941	63	3886	2.336	ug/L		84
63) cis-1,3-Dichloropropene	8.075	75	8605	2.009	ug/L		94
64) 4-Methyl-2-pentanone	8.307	43	9678	2.584	ug/L		90
66) Toluene	8.447	91	25135	2.076	ug/L		91
67) trans-1,3-Dichloropropene	8.752	75	6674	1.736	ug/L		90
68) Ethyl Methacrylate	8.892	69	7559	1.744	ug/L	#	65
69) 1,1,2-Trichloroethane	8.947	97	6379	2.137	ug/L		97
72) Tetrachloroethene	9.056	164	4225	1.811	ug/L		88
73) 2-Hexanone	9.258	43	6537	2.348	ug/L		87
74) 1,3-Dichloropropane	9.130	76	10356	2.097	ug/L		91
75) Dibromochloromethane	9.355	129	5147	1.751	ug/L		94
76) N-Butyl Acetate	9.416	43	11094	2.245	ug/L		90
77) 1,2-Dibromoethane	9.465	107	5846	1.932	ug/L	#	79
78) 3-Chlorobenzotrifluoride	9.983	180	7954	1.824	ug/L		96
79) Chlorobenzene	9.965	112	17004	2.094	ug/L		92
80) 4-Chlorobenzotrifluoride	10.044	180	6996	1.783	ug/L		92
81) 1,1,1,2-Tetrachloroethane	10.062	131	4355	1.619	ug/L		94
82) Ethylbenzene	10.087	106	8840	2.136	ug/L	#	87
83) (m+p)Xylene	10.203	106	19342	3.721	ug/L		91
84) o-Xylene	10.568	106	10247	2.005	ug/L		96
85) Styrene	10.587	104	16285	1.818	ug/L		97
86) Bromoform	10.751	173	2980	1.448	ug/L		88
87) 2-Chlorobenzotrifluoride	10.830	180	7710	1.786	ug/L		92
88) Isopropylbenzene	10.910	105	25550	1.961	ug/L		97
89) Cyclohexanone	11.001	55	36227	46.199	ug/L		82
90) trans-1,4-Dichloro-2-B...	11.251	53	2623	2.118	ug/L	#	73
92) 1,1,2,2-Tetrachloroethane	11.196	83	9129	2.250	ug/L		98
93) Bromobenzene	11.172	156	7049	2.083	ug/L		93
94) 1,2,3-Trichloropropane	11.227	110	3040	2.117	ug/L	#	80
95) n-Propylbenzene	11.275	91	30714	2.145	ug/L		96
96) 2-Chlorotoluene	11.336	91	18584	2.107	ug/L		94
97) 3-Chlorotoluene	11.397	91	19716	2.141	ug/L		91
98) 4-Chlorotoluene	11.440	91	20578	2.042	ug/L		86
99) 1,3,5-Trimethylbenzene	11.434	105	21799	2.066	ug/L		94
100) tert-Butylbenzene	11.708	119	17306	1.941	ug/L		94
101) 1,2,4-Trimethylbenzene	11.745	105	21197	1.980	ug/L		96
102) 3,4-Dichlorobenzotrifl...	11.812	214	5825	1.774	ug/L		97
103) sec-Butylbenzene	11.891	105	25510	2.063	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8258.D
Acq On : 20 Feb 2024 05:40 pm
Operator : F.NAEGLER
Sample : 2.0 PPB STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 21 09:05:54 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration

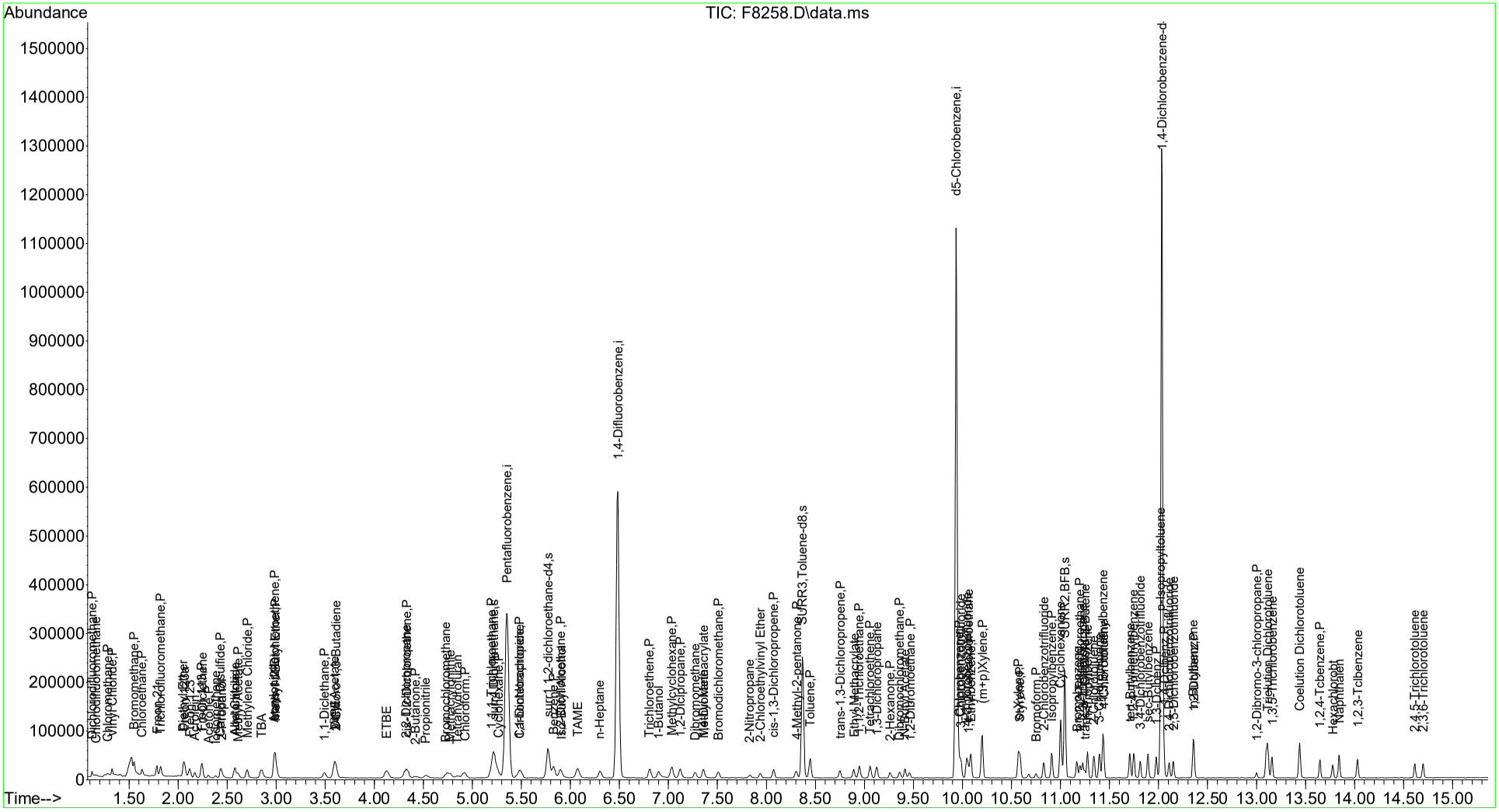
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
104) p-Isopropyltoluene	12.019	119	21457	1.927	ug/L		96
105) 1,3-Dclbenz	11.977	146	11736	1.867	ug/L		82
106) 1,4-Dclbenz	12.056	146	13914	2.153	ug/L		95
107) 2,4-Dichlorobenzotrifl...	12.111	214	5130	1.732	ug/L		95
108) 2,5-Dichlorobenzotrifl...	12.153	214	5997	1.786	ug/L		97
109) n-Butylbenzene	12.355	91	18554	1.951	ug/L		88
110) 1,2-Dclbenz	12.361	146	12758	2.044	ug/L		94
111) 1,2-Dibromo-3-chloropr...	13.001	157	1672	1.603	ug/L		93
112) Trielution Dichlorotol...	13.110	125	30279	5.497	ug/L		96
113) 1,3,5-Trichlorobenzene	13.159	180	8689	1.863	ug/L		99
114) Coelution Dichlorotoluene	13.440	125	21303	3.526	ug/L		94
115) 1,2,4-Tcbenzene	13.647	180	7648	1.663	ug/L		84
116) Hexachlorobt	13.781	225	3241	1.606	ug/L	#	82
117) Naphthalen	13.842	128	24986	1.708	ug/L		96
118) 1,2,3-Tclbenzene	14.031	180	8489	1.862	ug/L		91
119) 2,4,5-Trichlorotoluene	14.616	159	5385	1.583	ug/L		95
120) 2,3,6-Trichlorotoluene	14.702	159	4902	1.602	ug/L		88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8258.D
Acq On : 20 Feb 2024 05:40 pm
Operator : F.NAEGLER
Sample : 2.0 PPB STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 21 09:05:54 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration

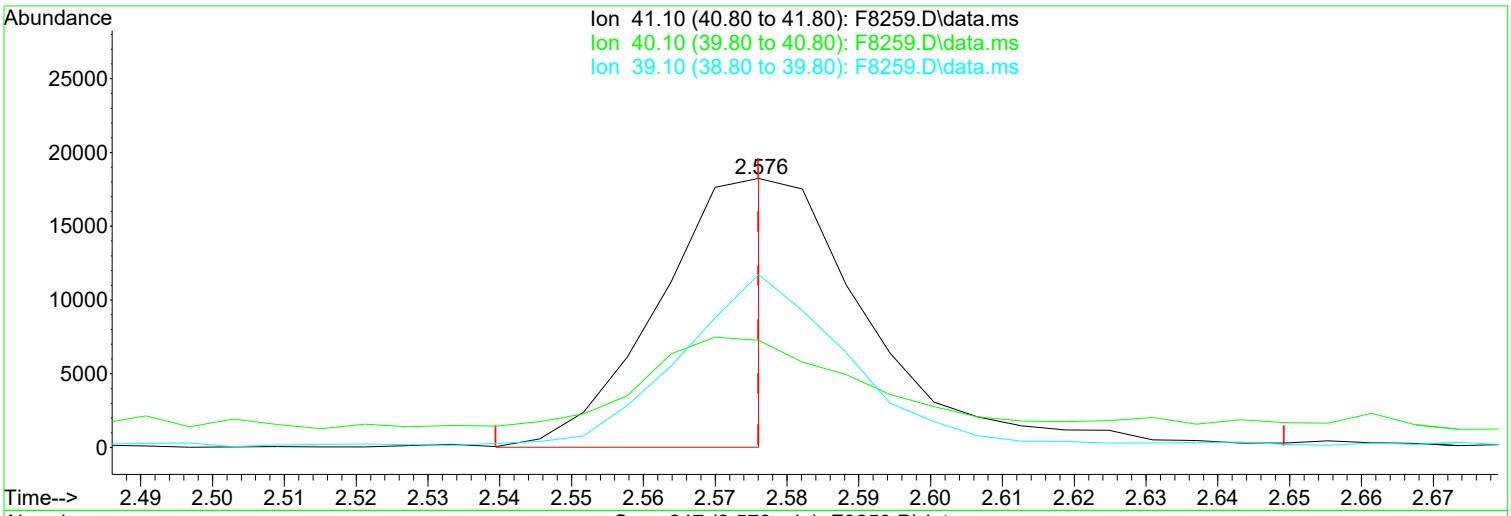


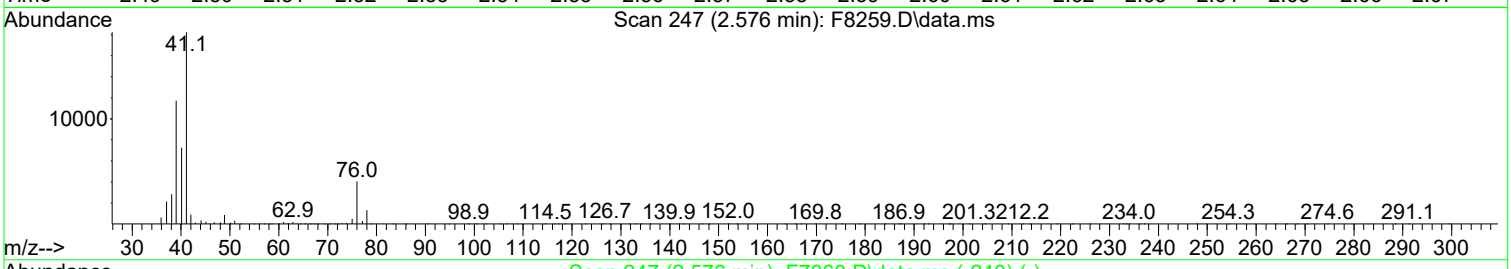
1st FJ 02/21/24
2nd 02/21/24

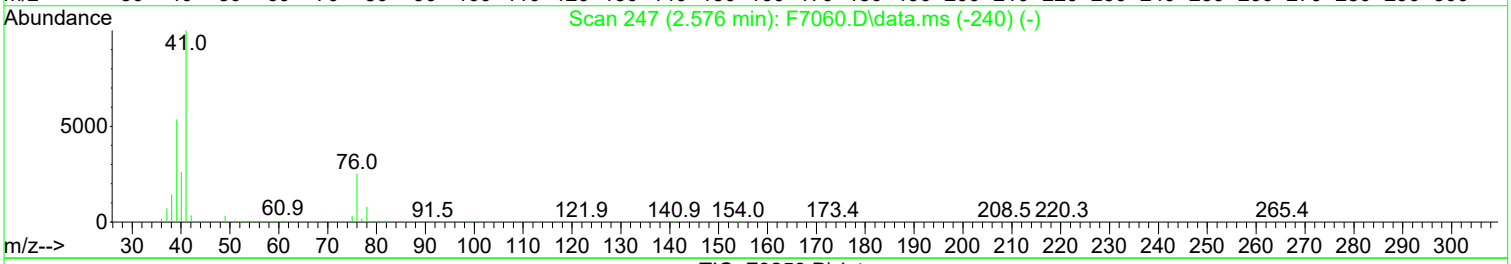
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8259.D
Acq On : 20 Feb 2024 06:02 pm
Operator : F.NAEGLER
Sample : 5.0 PPB STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 21 09:08:47 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8259.D\data.ms

(20) Acetonitrile

2.576min (+ 0.000) 33.06 ug/L m

response 20521

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	26.20	39.84
39.10	53.50	64.38
0.00	0.00	0.00

Manual Integration:

After

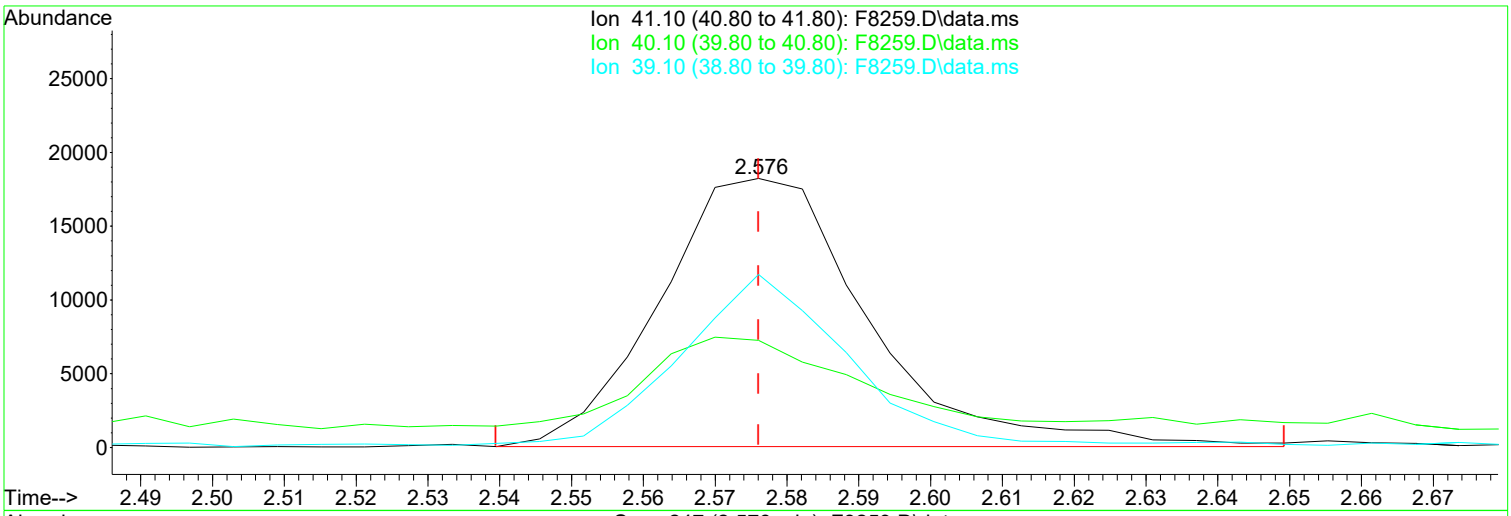
Poor integration.

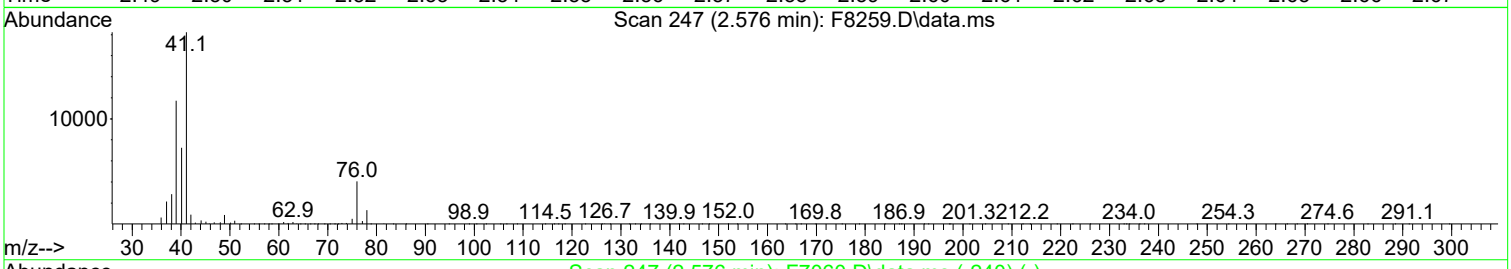
02/21/24

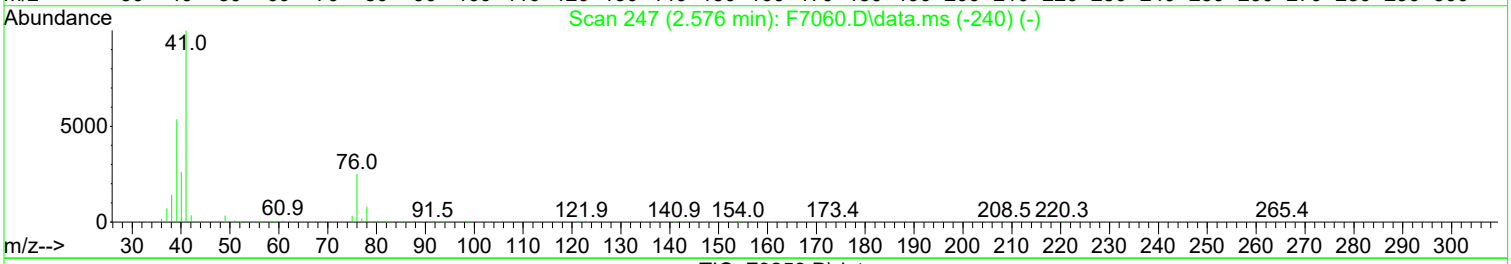
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8259.D
Acq On : 20 Feb 2024 06:02 pm
Operator : F.NAEGLER
Sample : 5.0 PPB STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 21 09:08:47 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8259.D\data.ms

(20) Acetonitrile

2.576min (+ 0.000) 59.23 ug/L

response 36759

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	26.20	39.84
39.10	53.50	64.38
0.00	0.00	0.00

Manual Integration:

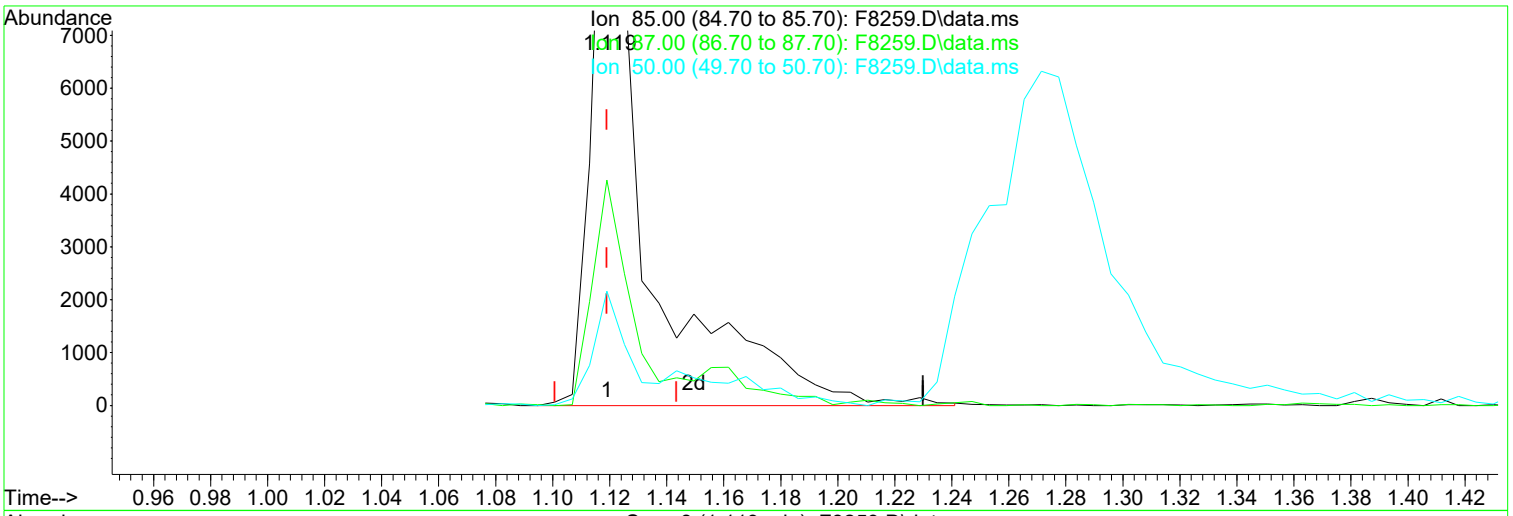
Before

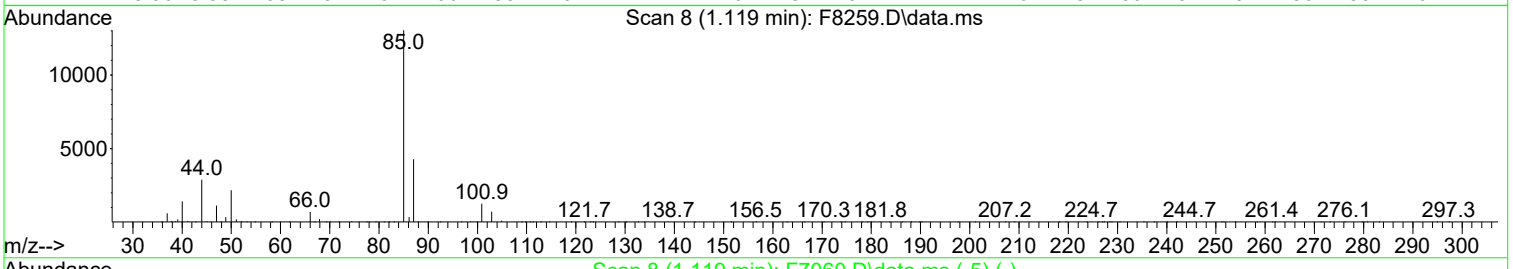
02/21/24

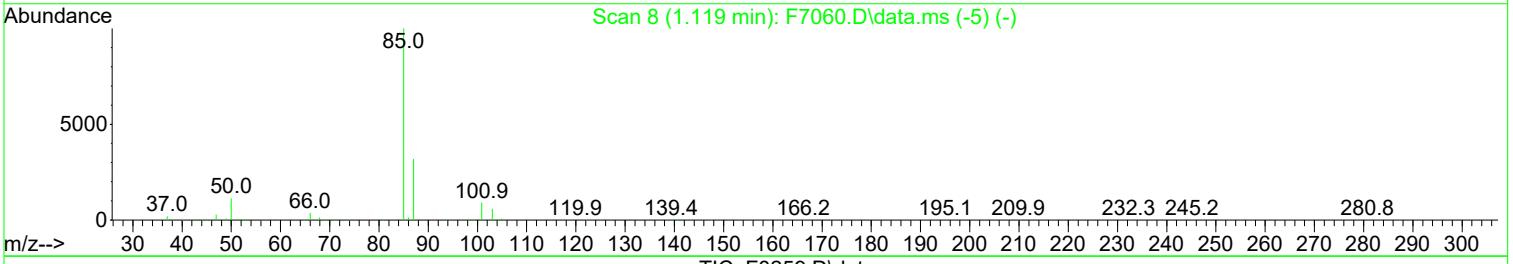
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8259.D
Acq On : 20 Feb 2024 06:02 pm
Operator : F.NAEGLER
Sample : 5.0 PPB STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 21 09:08:47 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8259.D\data.ms

(3) Dichlorodifluoromethane (P)

1.119min (+ 0.000) 4.22 ug/L m

response 15268

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.80	32.71
50.00	11.40	16.61
0.00	0.00	0.00

Manual Integration:

After

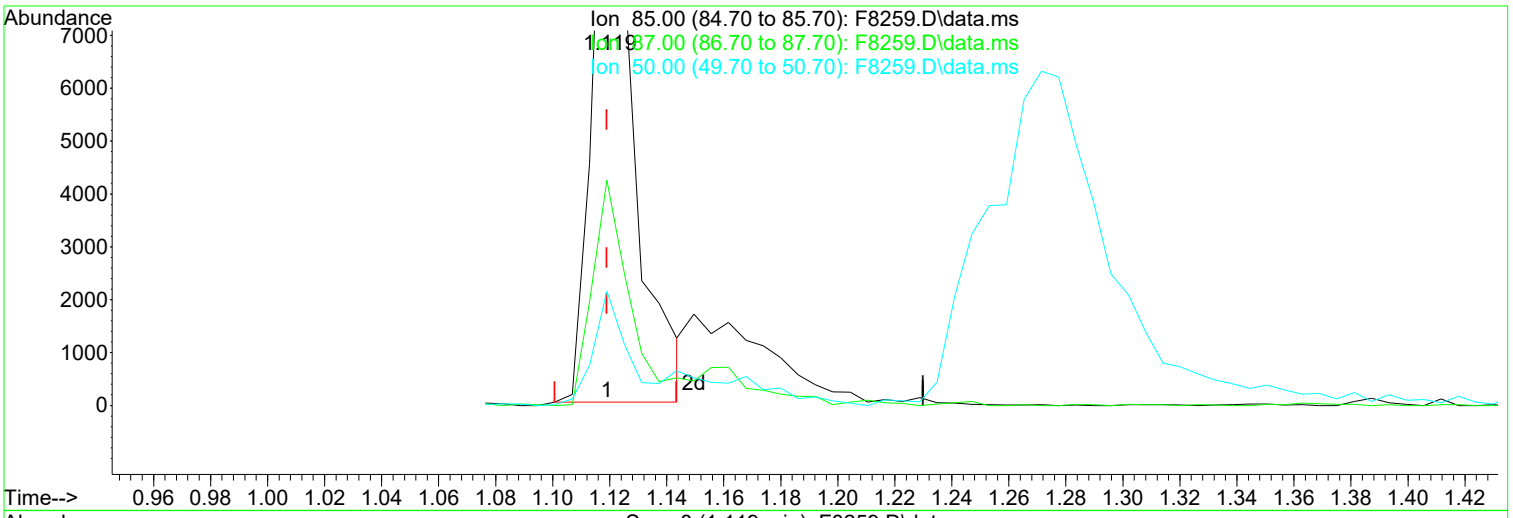
Poor integration.

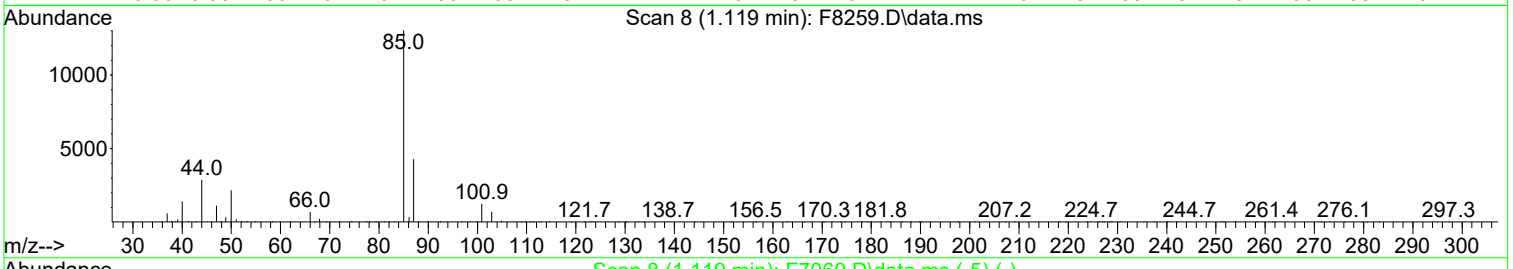
02/21/24

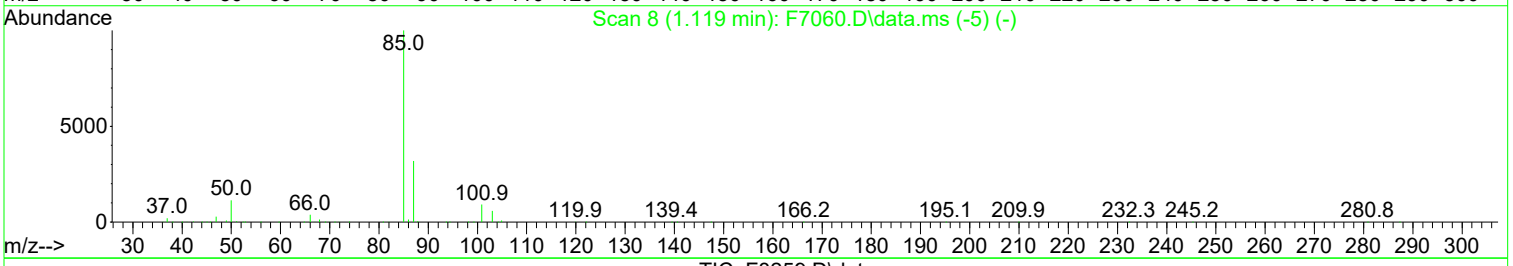
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8259.D
Acq On : 20 Feb 2024 06:02 pm
Operator : F.NAEGLER
Sample : 5.0 PPB STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 21 09:08:47 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8259.D\data.ms

(3) Dichlorodifluoromethane (P)

1.119min (+ 0.000) 3.17 ug/L

response 11458

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.80	32.71
50.00	11.40	16.61
0.00	0.00	0.00

Manual Integration:

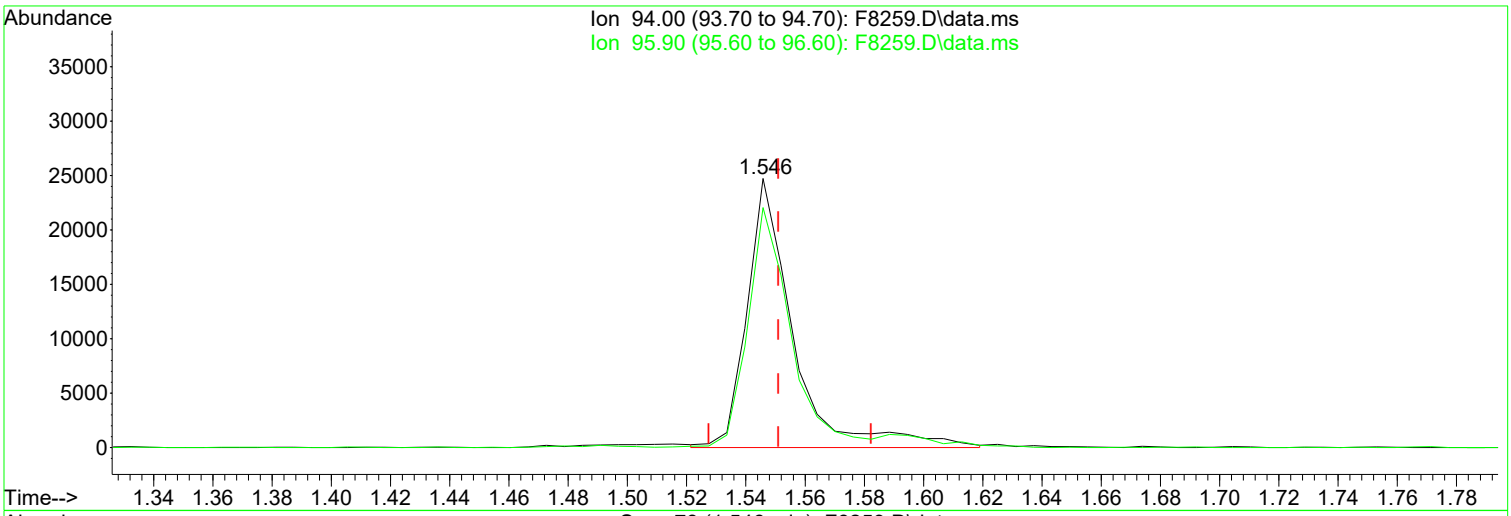
Before

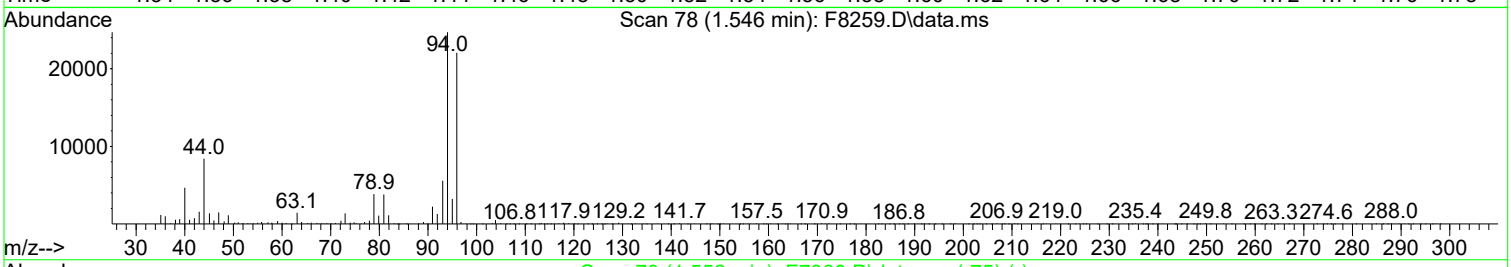
02/21/24

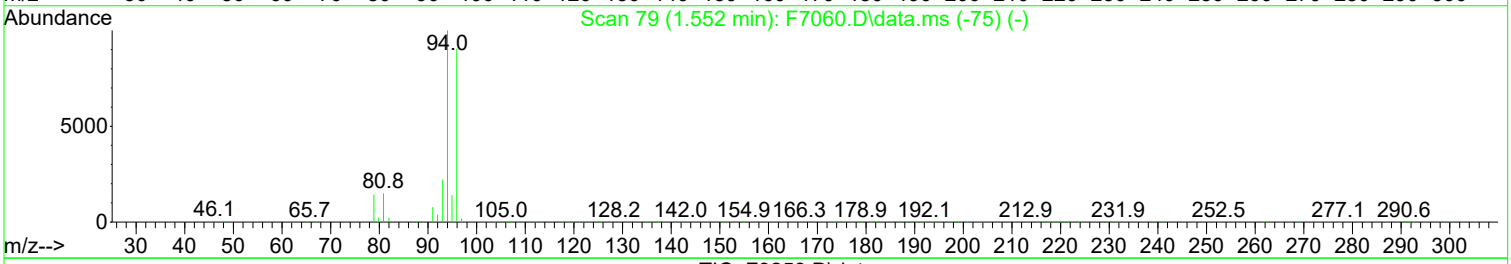
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8259.D
Acq On : 20 Feb 2024 06:02 pm
Operator : F.NAEGLER
Sample : 5.0 PPB STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 21 09:08:47 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8259.D\data.ms

(6) Bromomethane (P)

1.546min (-0.005) 14.59 ug/L m

response 26784

Ion	Exp%	Act%
94.00	100.00	100.00
95.90	90.10	89.26
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

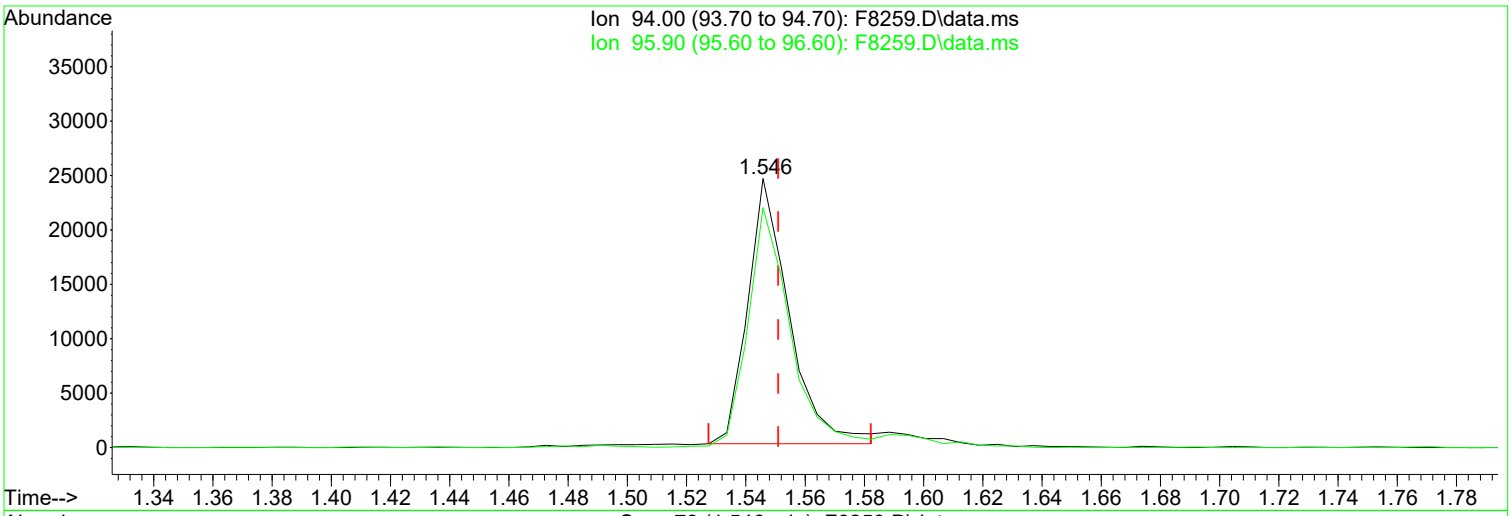
Poor integration.

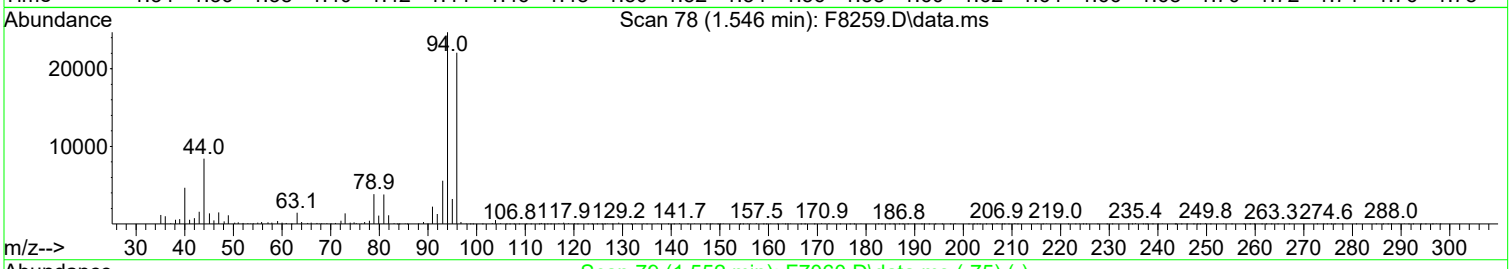
02/21/24

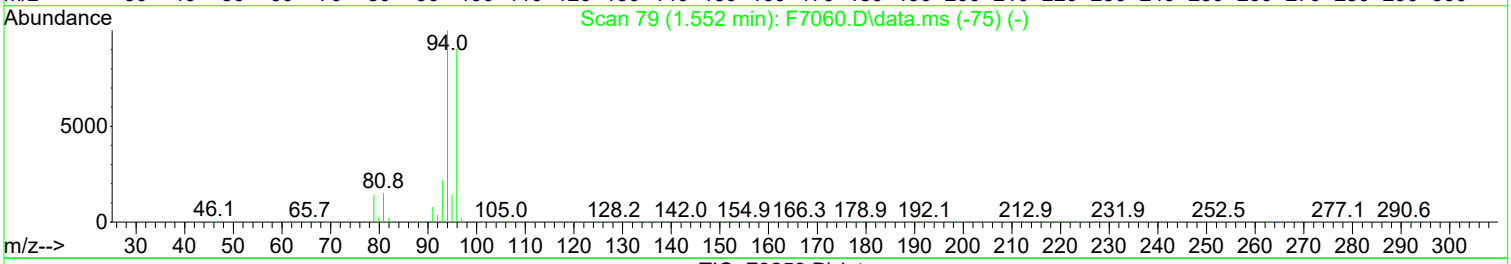
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8259.D
Acq On : 20 Feb 2024 06:02 pm
Operator : F.NAEGLER
Sample : 5.0 PPB STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 21 09:08:47 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8259.D\data.ms

(6) Bromomethane (P)

1.546min (-0.005) 12.88 ug/L

response 23657

Ion	Exp%	Act%
94.00	100.00	100.00
95.90	90.10	89.26
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

02/21/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8259.D
Acq On : 20 Feb 2024 06:02 pm
Operator : F.NAEGLER
Sample : 5.0 PPB STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 21 09:08:47 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.350	168	319053	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.484	114	512336	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.934	117	485490	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	12.038	152	246243	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.216	113	37536	11.91	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 23.82%#				
48) surr1,1,2-dichloroetha...	5.771	65	51242	12.88	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 25.76%#				
65) SURR3,Toluene-d8	8.368	98	151875	12.20	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 24.40%#				
70) SURR2,BFB	11.044	95	53560	11.38	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 22.76%#				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.150	51	13715	4.964	ug/L		96
3) Dichlorodifluoromethane	1.119	85	15268m	4.218	ug/L		
4) Chloromethane	1.271	50	18017	5.775	ug/L		92
5) Vinyl Chloride	1.326	62	19535	5.835	ug/L		93
6) Bromomethane	1.546	94	26784m	14.586	ug/L		
7) Chloroethane	1.625	64	17950	7.717	ug/L		97
8) Freon 21	1.777	67	32866	6.751	ug/L		100
9) Trichlorofluoromethane	1.820	101	25469	6.338	ug/L		89
10) Diethyl Ether	2.052	59	15527	6.194	ug/L		91
11) Freon 123a	2.064	67	15535	5.428	ug/L		80
12) Freon 123	2.119	83	18007	5.162	ug/L		93
13) Acrolein	2.168	56	18606	27.211	ug/L		90
14) 1,1-Diclethene	2.241	96	10904	4.660	ug/L		88
15) Freon 113	2.235	101	11378	4.968	ug/L		79
16) Acetone	2.308	43	11643	7.609	ug/L		96
17) 2-Propanol	2.442	45	29746	115.167	ug/L		90
18) Iodomethane	2.375	142	11202	2.991	ug/L		98
19) Carbon Disulfide	2.430	76	32183	5.122	ug/L		98
20) Acetonitrile	2.576	41	20521m	33.063	ug/L		
21) Allyl Chloride	2.576	76	6117	4.539	ug/L	#	52
22) Methyl Acetate	2.607	43	24126	6.705	ug/L		89
23) Methylene Chloride	2.704	84	14728	5.341	ug/L	#	79
24) TBA	2.844	59	49620	109.317	ug/L		94
25) Acrylonitrile	2.978	53	43664	31.092	ug/L		97
26) Methyl-t-Butyl Ether	2.997	73	49417	5.601	ug/L		96
27) trans-1,2-Dichloroethene	2.985	96	13102	5.111	ug/L		97
28) 1,1-Diclethane	3.491	63	26936	6.079	ug/L		95
29) Vinyl Acetate	3.582	86	2122	5.111	ug/L	#	71
30) DIPE	3.594	45	50275	6.779	ug/L		95
31) 2-Chloro-1,3-Butadiene	3.600	53	23275	5.887	ug/L		96
32) ETBE	4.118	59	46607	6.044	ug/L		88
33) 2,2-Dichloropropane	4.320	77	17169	5.231	ug/L		95
34) cis-1,2-Dichloroethene	4.344	96	16677	5.535	ug/L	#	81
35) 2-Butanone	4.417	43	14593	7.613	ug/L		90
36) Propionitrile	4.521	54	19741	32.929	ug/L		100
37) Bromochloromethane	4.746	130	10901	5.435	ug/L	#	89
38) Methacrylonitrile	4.771	67	9880	6.300	ug/L	#	73
39) Tetrahydrofuran	4.844	42	8978	7.449	ug/L		89
40) Chloroform	4.917	83	27489	5.892	ug/L		90

1st FNJ 02/21/24
2nd WR 02/21/24

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8259.D
Acq On : 20 Feb 2024 06:02 pm
Operator : F.NAEGLER
Sample : 5.0 PPB STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 21 09:08:47 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 1,1,1-Trichloroethane	5.197	97	21095	5.684	ug/L		90
42) TAME	6.081	73	46051	6.112	ug/L		95
44) Cyclohexane	5.258	41	14686	6.504	ug/L		89
46) Carbontetrachloride	5.472	117	14025	4.122	ug/L		96
47) 1,1-Dichloropropene	5.490	75	18458	4.931	ug/L		94
49) Benzene	5.832	78	56911	5.103	ug/L		94
50) 1,2-Dichloroethane	5.892	62	25405	5.862	ug/L		91
51) Iso-Butyl Alcohol	5.911	43	18718	96.769	ug/L		89
52) n-Heptane	6.301	43	16949	5.998	ug/L		91
53) 1-Butanol	6.898	56	23083	185.302	ug/L		95
54) Trichloroethene	6.813	130	14453	4.795	ug/L		88
55) Methylcyclohexane	7.032	55	17133	5.191	ug/L		95
56) 1,2-Diclpropane	7.124	63	15396	5.576	ug/L		97
57) Dibromomethane	7.270	93	12170	6.053	ug/L	#	83
58) 1,4-Dioxane	7.350	88	8041	115.407	ug/L		84
59) Methyl Methacrylate	7.362	69	13016	5.146	ug/L	#	76
60) Bromodichloromethane	7.502	83	19305	5.272	ug/L		99
61) 2-Nitropropane	7.831	41	8421	9.916	ug/L		83
62) 2-Chloroethylvinyl Ether	7.935	63	10288	6.105	ug/L		89
63) cis-1,3-Dichloropropene	8.069	75	21143	4.872	ug/L		98
64) 4-Methyl-2-pentanone	8.301	43	24696	6.508	ug/L		98
66) Toluene	8.447	91	65463	5.338	ug/L		96
67) trans-1,3-Dichloropropene	8.752	75	18774	4.820	ug/L		93
68) Ethyl Methacrylate	8.892	69	21286	4.848	ug/L		78
69) 1,1,2-Trichloroethane	8.947	97	16421	5.431	ug/L		98
72) Tetrachloroethene	9.056	164	11282	4.650	ug/L		92
73) 2-Hexanone	9.258	43	17870	6.172	ug/L		93
74) 1,3-Dichloropropane	9.130	76	29334	5.710	ug/L		96
75) Dibromochloromethane	9.361	129	13866	4.536	ug/L		92
76) N-Butyl Acetate	9.410	43	31668	6.161	ug/L		92
77) 1,2-Dibromoethane	9.459	107	15645	4.972	ug/L		88
78) 3-Chlorobenzotrifluoride	9.989	180	20770	4.579	ug/L		87
79) Chlorobenzene	9.965	112	43473	5.148	ug/L		92
80) 4-Chlorobenzotrifluoride	10.044	180	18574	4.552	ug/L		94
81) 1,1,1,2-Tetrachloroethane	10.056	131	12425	4.441	ug/L		91
82) Ethylbenzene	10.081	106	21803	5.066	ug/L		98
83) (m+p)Xylene	10.203	106	53236	9.849	ug/L		99
84) o-Xylene	10.568	106	26977	5.075	ug/L		99
85) Styrene	10.587	104	43609	4.680	ug/L		97
86) Bromoform	10.751	173	8314	3.886	ug/L		100
87) 2-Chlorobenzotrifluoride	10.831	180	20160	4.490	ug/L		96
88) Isopropylbenzene	10.910	105	69101	5.100	ug/L		98
89) Cyclohexanone	11.001	55	103397	126.790	ug/L		90
90) trans-1,4-Dichloro-2-B...	11.245	53	6556	5.091	ug/L	#	69
92) 1,1,2,2-Tetrachloroethane	11.196	83	23720	5.560	ug/L		99
93) Bromobenzene	11.166	156	18330	5.153	ug/L	#	85
94) 1,2,3-Trichloropropane	11.227	110	8221	5.444	ug/L	#	82
95) n-Propylbenzene	11.276	91	82962	5.509	ug/L		96
96) 2-Chlorotoluene	11.343	91	49642	5.353	ug/L		97
97) 3-Chlorotoluene	11.398	91	49641	5.127	ug/L		98
98) 4-Chlorotoluene	11.440	91	56572	5.338	ug/L		97
99) 1,3,5-Trimethylbenzene	11.434	105	57328	5.167	ug/L		95
100) tert-Butylbenzene	11.708	119	47631	5.082	ug/L		98
101) 1,2,4-Trimethylbenzene	11.745	105	58592	5.205	ug/L		95
102) 3,4-Dichlorobenzotrifl...	11.812	214	15232	4.413	ug/L		90
103) sec-Butylbenzene	11.891	105	68109	5.238	ug/L		98

1st FJ 02/21/24
2nd 02/21/24

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8259.D
Acq On : 20 Feb 2024 06:02 pm
Operator : F.NAEGLER
Sample : 5.0 PPB STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 21 09:08:47 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration

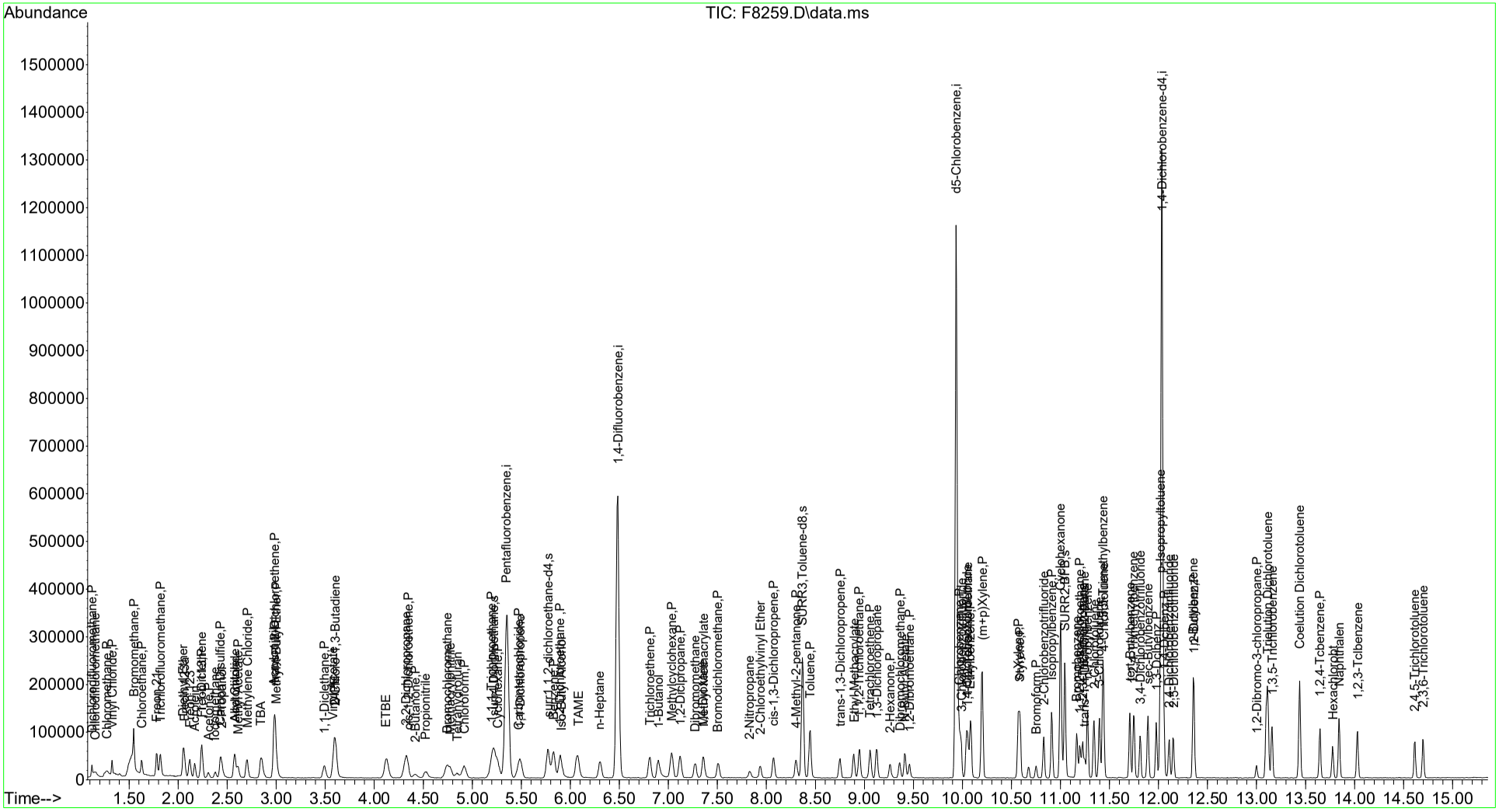
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) p-Isopropyltoluene	12.019	119	57086	4.875	ug/L	98
105) 1,3-Dclbenz	11.977	146	32389	4.902	ug/L	97
106) 1,4-Dclbenz	12.056	146	34881	5.134	ug/L	94
107) 2,4-Dichlorobenzotrifl...	12.111	214	13169	4.229	ug/L	90
108) 2,5-Dichlorobenzotrifl...	12.153	214	15038	4.260	ug/L	96
109) n-Butylbenzene	12.355	91	49835	4.984	ug/L	93
110) 1,2-Dclbenz	12.361	146	33678	5.131	ug/L	98
111) 1,2-Dibromo-3-chloropr...	13.001	157	4458	4.064	ug/L	89
112) Trielution Dichlorotol...	13.111	125	81711	14.107	ug/L	94
113) 1,3,5-Trichlorobenzene	13.159	180	23604	4.814	ug/L	94
114) Coelution Dichlorotoluene	13.440	125	59028	9.293	ug/L	95
115) 1,2,4-Tcbenzene	13.647	180	21178	4.380	ug/L	99
116) Hexachlorobt	13.781	225	8525	4.017	ug/L	90
117) Naphthalen	13.842	128	70198	4.564	ug/L	96
118) 1,2,3-Tclbenzene	14.031	180	22517	4.697	ug/L	89
119) 2,4,5-Trichlorotoluene	14.610	159	14719	4.115	ug/L	88
120) 2,3,6-Trichlorotoluene	14.696	159	14193	4.411	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8259.D
Acq On : 20 Feb 2024 06:02 pm
Operator : F.NAEGLER
Sample : 5.0 PPB STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 21 09:08:47 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration

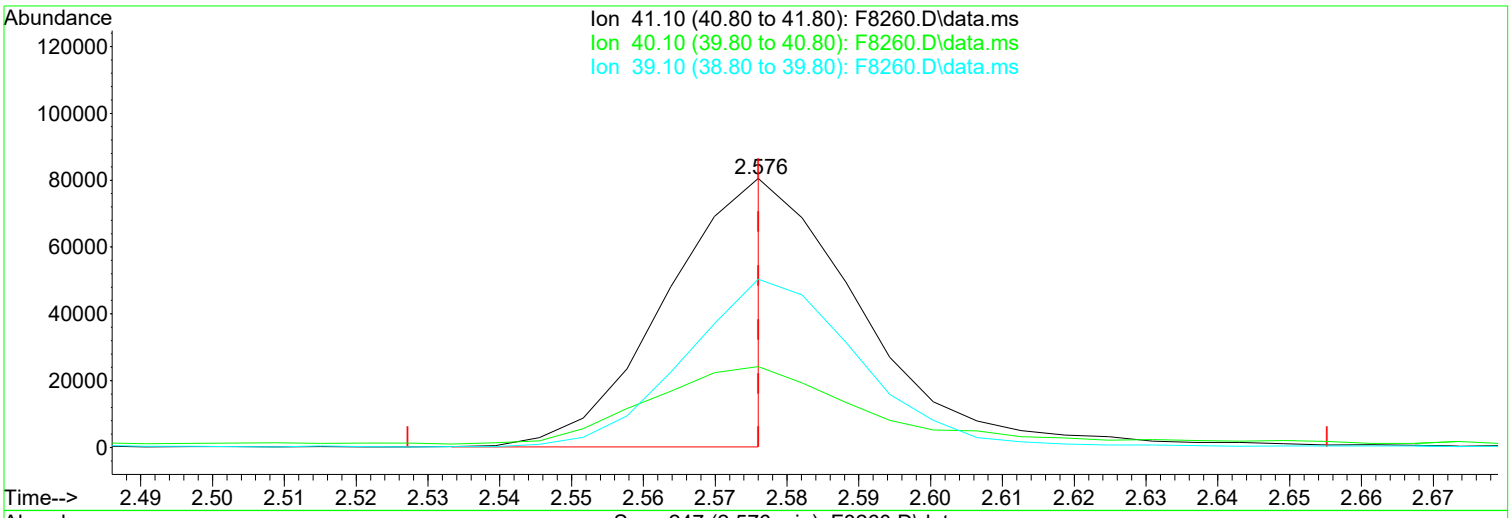


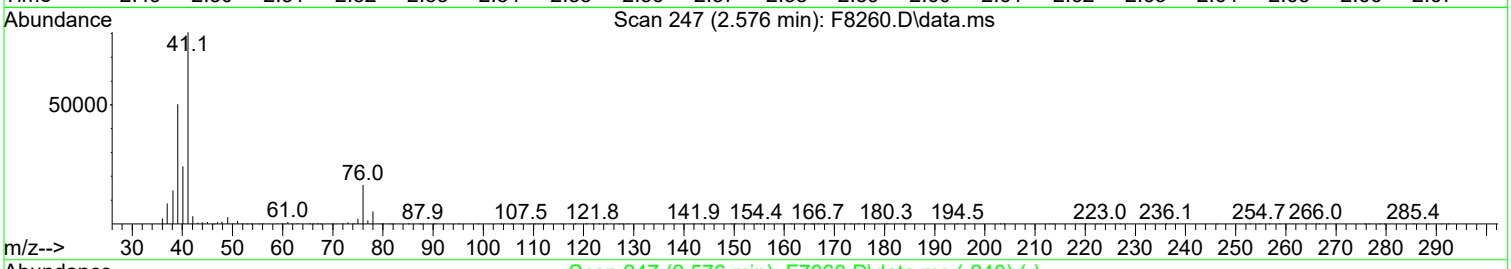
1st FJ 02/21/24
2nd 02/21/24

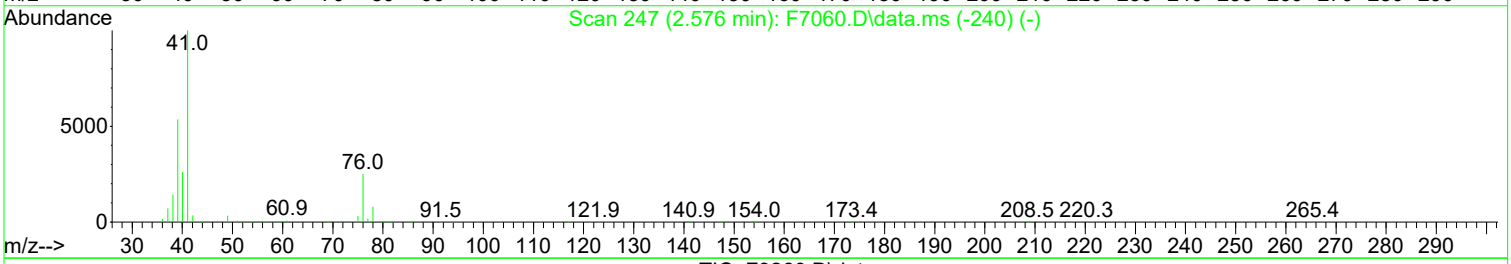
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8260.D
Acq On : 20 Feb 2024 06:25 pm
Operator : F.NAEGLER
Sample : 20 PPB STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 21 09:10:37 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8260.D\data.ms

(20) Acetonitrile

2.576min (-0.000) 130.63 ug/L m

response 85051

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	26.20	30.14
39.10	53.50	62.51
0.00	0.00	0.00

Manual Integration:

After

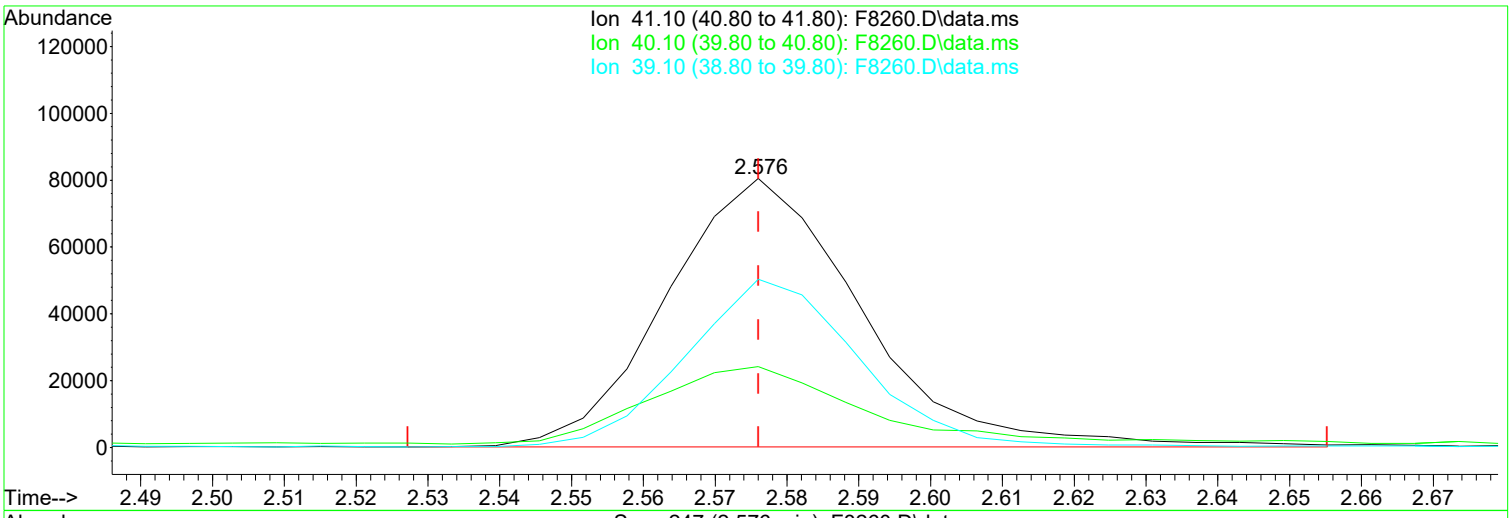
Poor integration.

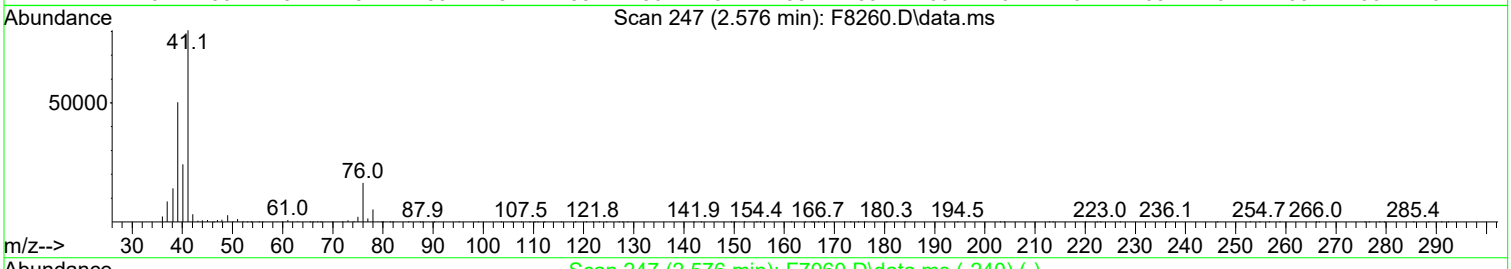
02/21/24

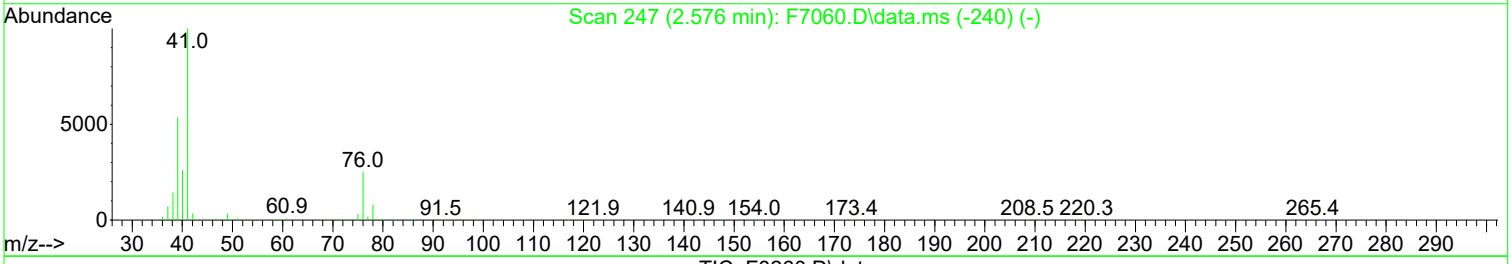
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8260.D
Acq On : 20 Feb 2024 06:25 pm
Operator : F.NAEGLER
Sample : 20 PPB STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 21 09:10:37 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8260.D\data.ms

(20) Acetonitrile

2.576min (-0.000) 233.54 ug/L

response 152052

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	26.20	30.14
39.10	53.50	62.51
0.00	0.00	0.00

Manual Integration:

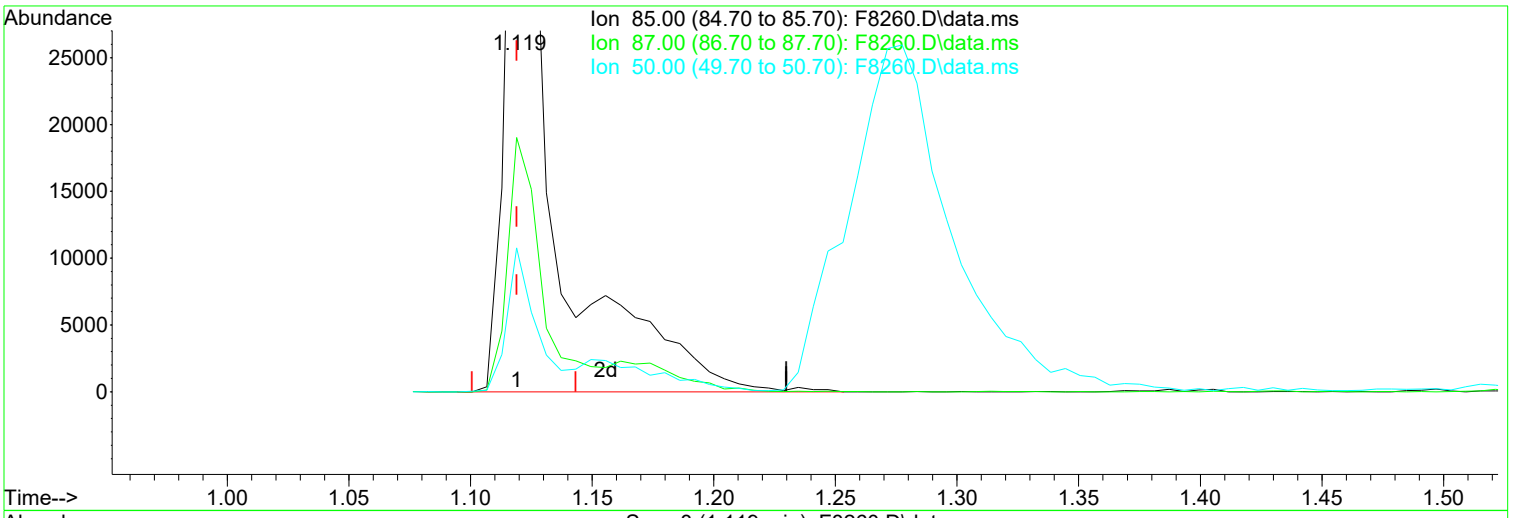
Before

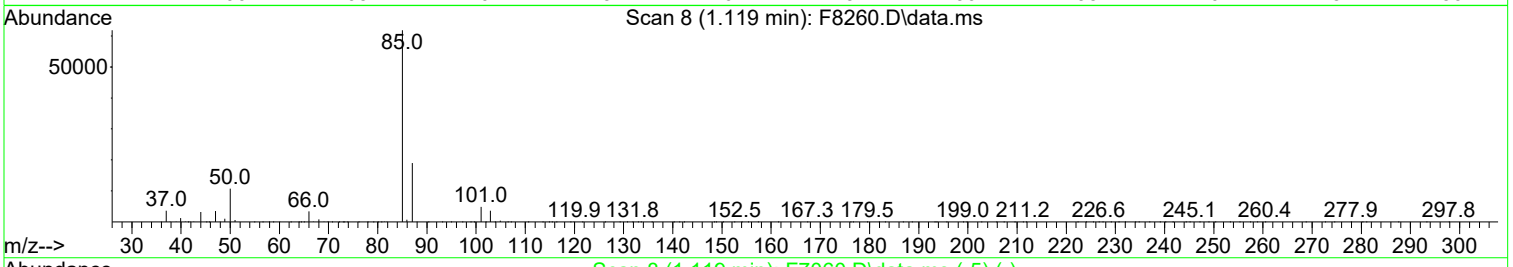
02/21/24

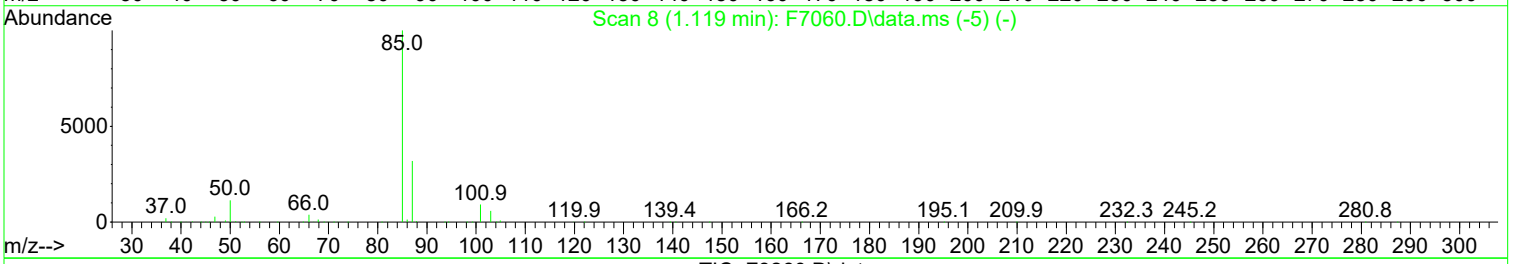
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8260.D
Acq On : 20 Feb 2024 06:25 pm
Operator : F.NAEGLER
Sample : 20 PPB STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 21 09:10:37 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8260.D\data.ms

(3) Dichlorodifluoromethane (P)

1.119min (-0.000) 18.86 ug/L m

response 71622

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.80	30.76
50.00	11.40	17.40
0.00	0.00	0.00

Manual Integration:

After

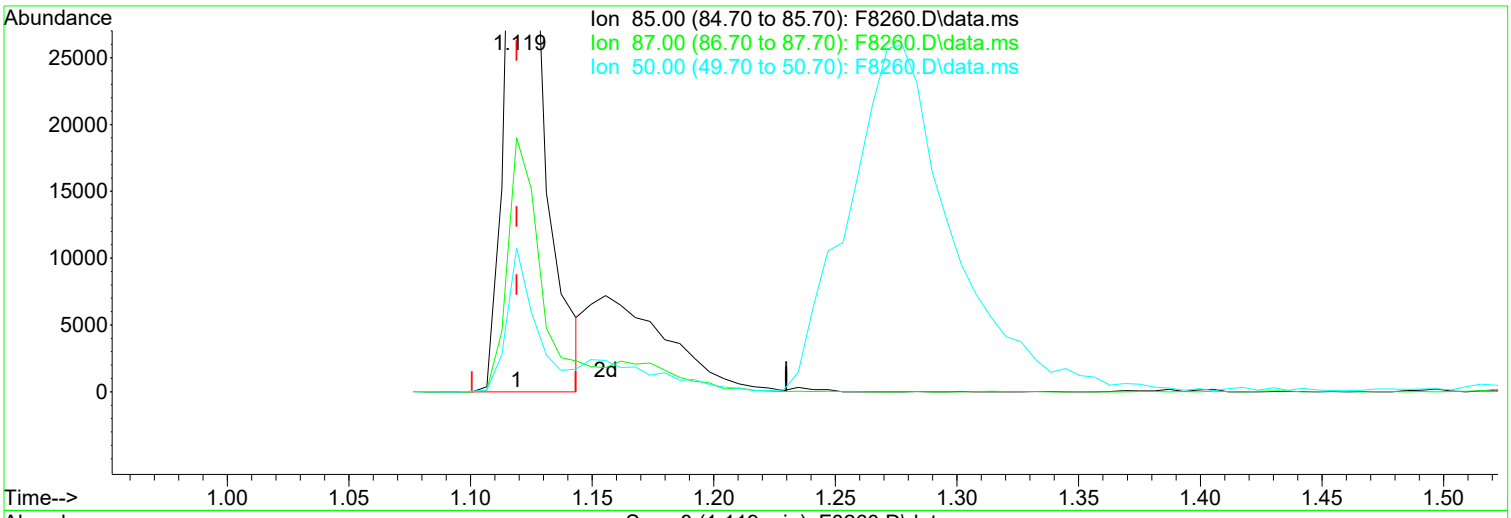
Poor integration.

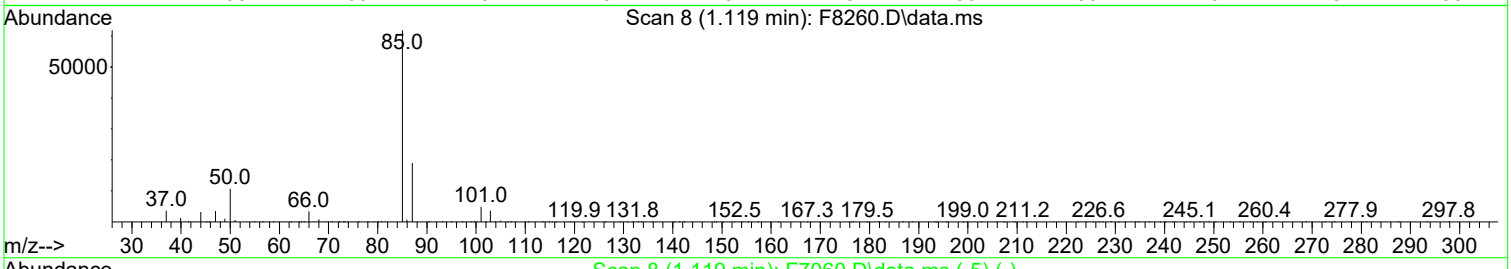
02/21/24

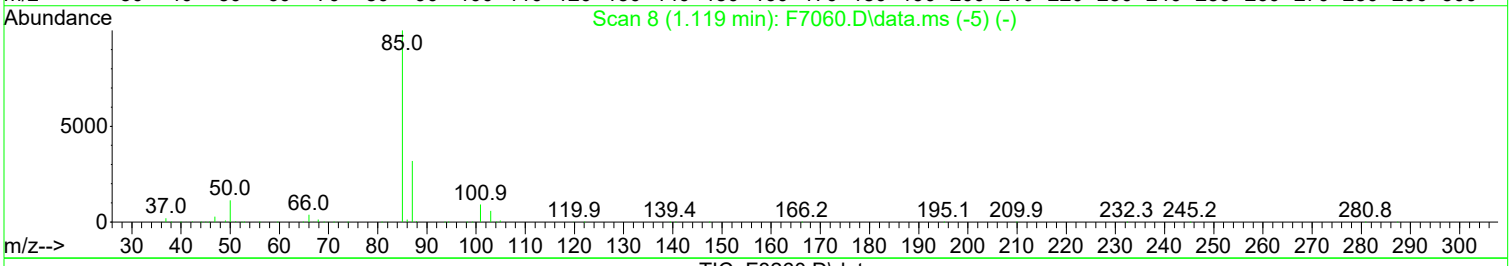
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8260.D
Acq On : 20 Feb 2024 06:25 pm
Operator : F.NAEGLER
Sample : 20 PPB STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 21 09:10:37 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8260.D\data.ms

(3) Dichlorodifluoromethane (P)

1.119min (-0.000) 14.48 ug/L

response 54984

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.80	30.76
50.00	11.40	17.40
0.00	0.00	0.00

Manual Integration:

Before

02/21/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8260.D
Acq On : 20 Feb 2024 06:25 pm
Operator : F.NAEGLER
Sample : 20 PPB STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 21 09:10:37 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.356	168	334689	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.484	114	550826	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.934	117	531971	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	12.031	152	295136	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.216	113	66120	19.51	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 39.02%#				
48) surr1,1,2-dichloroetha...	5.777	65	89109	20.84	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 41.68%#				
65) SURR3,Toluene-d8	8.368	98	268546	20.06	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 40.12%#				
70) SURR2,BFB	11.044	95	99678	19.71	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 39.42%#				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.156	51	58464	20.172	ug/L		98
3) Dichlorodifluoromethane	1.119	85	71622m	18.862	ug/L		
4) Chloromethane	1.277	50	76035	23.233	ug/L		99
5) Vinyl Chloride	1.326	62	84135	23.959	ug/L		99
6) Bromomethane	1.552	94	76492	39.711	ug/L		94
7) Chloroethane	1.631	64	72606	29.755	ug/L		97
8) Freon 21	1.783	67	141398	27.688	ug/L		96
9) Trichlorofluoromethane	1.820	101	106474	25.260	ug/L		97
10) Diethyl Ether	2.052	59	64734	24.618	ug/L		90
11) Freon 123a	2.064	67	83702	27.882	ug/L		85
12) Freon 123	2.119	83	86979	23.768	ug/L		96
13) Acrolein	2.168	56	74633	104.050	ug/L		95
14) 1,1-Diclethene	2.241	96	46065	18.769	ug/L	#	86
15) Freon 113	2.241	101	44705	18.606	ug/L		97
16) Acetone	2.308	43	41846	26.071	ug/L		92
17) 2-Propanol	2.442	45	125347	462.630	ug/L		95
18) Iodomethane	2.381	142	69678	17.738	ug/L		91
19) Carbon Disulfide	2.430	76	155863	23.647	ug/L		99
20) Acetonitrile	2.576	41	85051m	130.632	ug/L		
21) Allyl Chloride	2.576	76	26559	18.785	ug/L	#	36
22) Methyl Acetate	2.606	43	92900	24.611	ug/L		92
23) Methylene Chloride	2.704	84	58301	20.155	ug/L	#	82
24) TBA	2.844	59	212602	446.496	ug/L		91
25) Acrylonitrile	2.978	53	183106	124.292	ug/L		97
26) Methyl-t-Butyl Ether	2.991	73	201560	21.780	ug/L		96
27) trans-1,2-Dichloroethene	2.984	96	54390	20.226	ug/L		91
28) 1,1-Diclethane	3.497	63	111469	23.983	ug/L		96
29) Vinyl Acetate	3.582	86	9452	21.704	ug/L	#	76
30) DIPE	3.594	45	204034	26.228	ug/L		85
31) 2-Chloro-1,3-Butadiene	3.606	53	109746	26.463	ug/L		98
32) ETBE	4.124	59	190705	23.575	ug/L		94
33) 2,2-Dichloropropane	4.313	77	74284	21.577	ug/L		91
34) cis-1,2-Dichloroethene	4.332	96	69131	21.871	ug/L		91
35) 2-Butanone	4.411	43	56477	28.087	ug/L		94
36) Propionitrile	4.521	54	80905	128.650	ug/L		96
37) Bromochloromethane	4.734	130	44497	21.149	ug/L	#	81
38) Methacrylonitrile	4.771	67	39301	23.889	ug/L		95
39) Tetrahydrofuran	4.832	42	34881	27.587	ug/L		92
40) Chloroform	4.923	83	114312	23.358	ug/L		94

1st FNJ 02/21/24
2nd 02/21/24

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8260.D
Acq On : 20 Feb 2024 06:25 pm
Operator : F.NAEGLER
Sample : 20 PPB STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 21 09:10:37 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 1,1,1-Trichloroethane	5.197	97	93166	23.930	ug/L		94
42) TAME	6.069	73	193931	24.535	ug/L		92
44) Cyclohexane	5.252	41	63917	26.330	ug/L		98
46) Carbontetrachloride	5.472	117	62084	16.973	ug/L		97
47) 1,1-Dichloropropene	5.496	75	78278	19.452	ug/L		97
49) Benzene	5.831	78	245334	20.459	ug/L		98
50) 1,2-Dichloroethane	5.892	62	107393	23.049	ug/L		94
51) Iso-Butyl Alcohol	5.899	43	87235	419.477	ug/L		99
52) n-Heptane	6.301	43	73731	24.270	ug/L		87
53) 1-Butanol	6.892	56	131514	981.975	ug/L		88
54) Trichloroethene	6.813	130	64713	19.970	ug/L		96
55) Methylcyclohexane	7.032	55	77921	21.961	ug/L		96
56) 1,2-Diclpropane	7.118	63	68789	23.171	ug/L		94
57) Dibromomethane	7.270	93	50297	23.270	ug/L		88
58) 1,4-Dioxane	7.343	88	30867	412.057	ug/L		95
59) Methyl Methacrylate	7.362	69	58812	21.627	ug/L		85
60) Bromodichloromethane	7.508	83	86798	22.049	ug/L		97
61) 2-Nitropropane	7.831	41	42831	46.910	ug/L	#	80
62) 2-Chloroethylvinyl Ether	7.935	63	46881	25.875	ug/L		93
63) cis-1,3-Dichloropropene	8.075	75	99582	21.343	ug/L		98
64) 4-Methyl-2-pentanone	8.300	43	112932	27.681	ug/L		91
66) Toluene	8.447	91	281577	21.357	ug/L		97
67) trans-1,3-Dichloropropene	8.752	75	87498	20.895	ug/L		100
68) Ethyl Methacrylate	8.892	69	101138	21.427	ug/L		84
69) 1,1,2-Trichloroethane	8.953	97	68947	21.212	ug/L		94
72) Tetrachloroethene	9.056	164	51151	19.239	ug/L		98
73) 2-Hexanone	9.258	43	83421	26.294	ug/L		91
74) 1,3-Dichloropropane	9.123	76	120352	21.382	ug/L		89
75) Dibromochloromethane	9.361	129	66750	19.926	ug/L		98
76) N-Butyl Acetate	9.410	43	147963	26.270	ug/L		91
77) 1,2-Dibromoethane	9.459	107	67605	19.607	ug/L		95
78) 3-Chlorobenzotrifluoride	9.983	180	91045	18.319	ug/L		98
79) Chlorobenzene	9.965	112	189416	20.470	ug/L		97
80) 4-Chlorobenzotrifluoride	10.044	180	79922	17.874	ug/L		98
81) 1,1,1,2-Tetrachloroethane	10.056	131	56498	18.429	ug/L		98
82) Ethylbenzene	10.081	106	94949	20.133	ug/L		92
83) (m+p)Xylene	10.203	106	242289	40.907	ug/L		99
84) o-Xylene	10.568	106	122473	21.028	ug/L		95
85) Styrene	10.587	104	208768	20.448	ug/L		98
86) Bromoform	10.751	173	41643	17.762	ug/L		96
87) 2-Chlorobenzotrifluoride	10.830	180	94895	19.287	ug/L		97
88) Isopropylbenzene	10.910	105	304295	20.497	ug/L		99
89) Cyclohexanone	11.001	55	438741	490.995	ug/L		89
90) trans-1,4-Dichloro-2-B...	11.245	53	32889	23.309	ug/L	#	72
92) 1,1,2,2-Tetrachloroethane	11.196	83	108028	21.127	ug/L		97
93) Bromobenzene	11.166	156	80988	18.994	ug/L		95
94) 1,2,3-Trichloropropane	11.227	110	36856	20.364	ug/L		94
95) n-Propylbenzene	11.276	91	378003	20.944	ug/L		99
96) 2-Chlorotoluene	11.343	91	222051	19.977	ug/L		96
97) 3-Chlorotoluene	11.397	91	236637	20.390	ug/L		95
98) 4-Chlorotoluene	11.434	91	265034	20.866	ug/L		91
99) 1,3,5-Trimethylbenzene	11.434	105	275541	20.719	ug/L		98
100) tert-Butylbenzene	11.708	119	230635	20.529	ug/L		97
101) 1,2,4-Trimethylbenzene	11.745	105	271588	20.129	ug/L		99
102) 3,4-Dichlorobenzotrifl...	11.812	214	74760	18.070	ug/L		95
103) sec-Butylbenzene	11.891	105	326127	20.927	ug/L		98

1st FW 02/21/24
2nd WR 02/21/24

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8260.D
Acq On : 20 Feb 2024 06:25 pm
Operator : F.NAEGLER
Sample : 20 PPB STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 21 09:10:37 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration

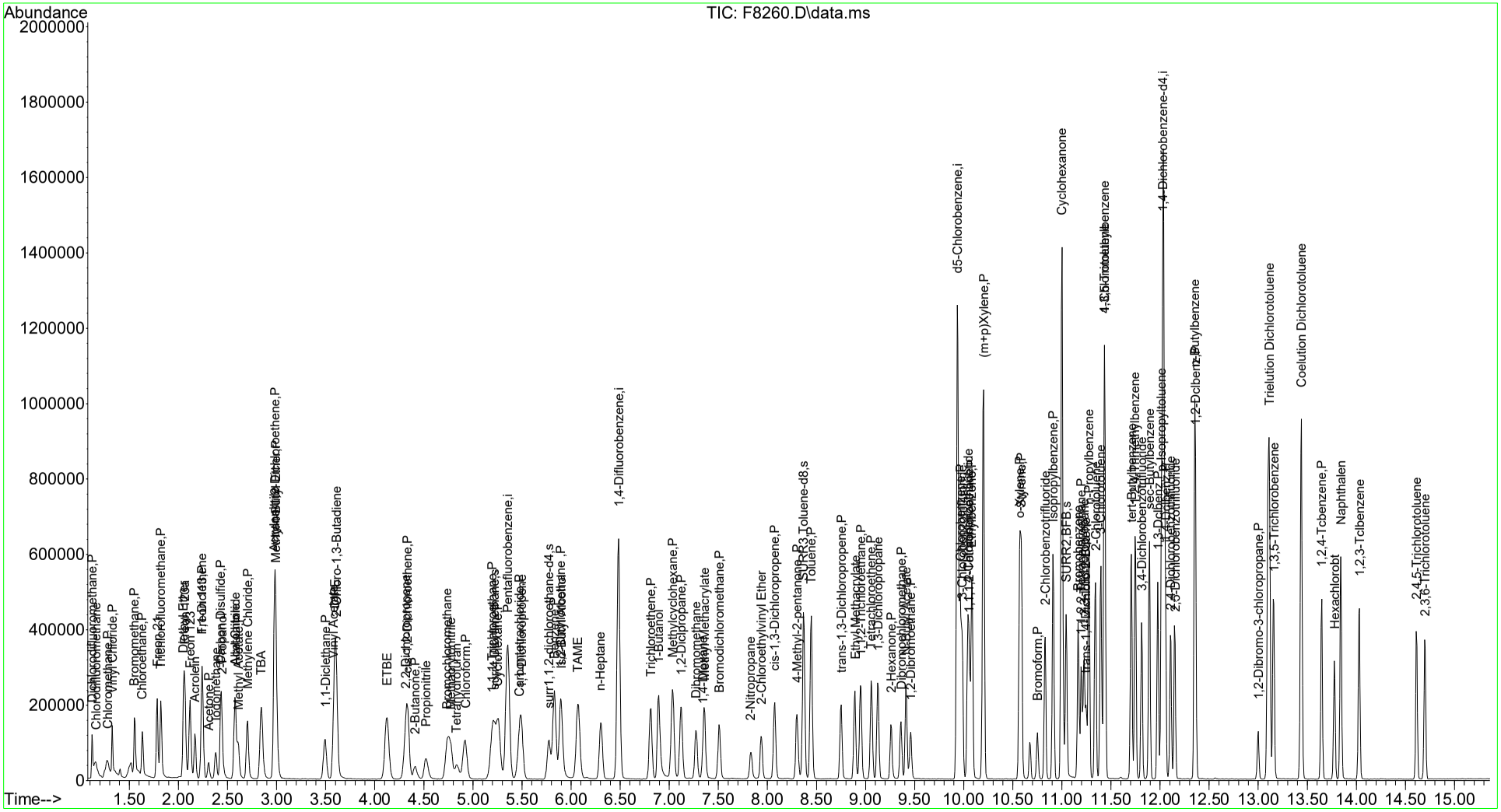
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) p-Isopropyltoluene	12.013	119	281952	20.091	ug/L	98
105) 1,3-Dclbenz	11.977	146	153597	19.394	ug/L	99
106) 1,4-Dclbenz	12.056	146	157787	19.378	ug/L	97
107) 2,4-Dichlorobenzotrifl...	12.111	214	66736	17.881	ug/L	96
108) 2,5-Dichlorobenzotrifl...	12.153	214	75575	17.863	ug/L	95
109) n-Butylbenzene	12.355	91	252132	21.040	ug/L	97
110) 1,2-Dclbenz	12.361	146	157641	20.037	ug/L	98
111) 1,2-Dibromo-3-chloropr...	13.001	157	21399	16.277	ug/L	87
112) Trielution Dichlorotol...	13.111	125	402145	57.929	ug/L	97
113) 1,3,5-Trichlorobenzene	13.159	180	109802	18.683	ug/L	100
114) Coelution Dichlorotoluene	13.440	125	295355	38.795	ug/L	99
115) 1,2,4-Tcbenzene	13.647	180	102568	17.698	ug/L	99
116) Hexachlorobt	13.775	225	40986	16.115	ug/L	99
117) Naphthalen	13.842	128	336665	18.264	ug/L	98
118) 1,2,3-Tclbenzene	14.031	180	102484	17.836	ug/L	96
119) 2,4,5-Trichlorotoluene	14.610	159	75602	17.637	ug/L	92
120) 2,3,6-Trichlorotoluene	14.702	159	67621	17.534	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8260.D
Acq On : 20 Feb 2024 06:25 pm
Operator : F.NAEGLER
Sample : 20 PPB STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 21 09:10:37 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration

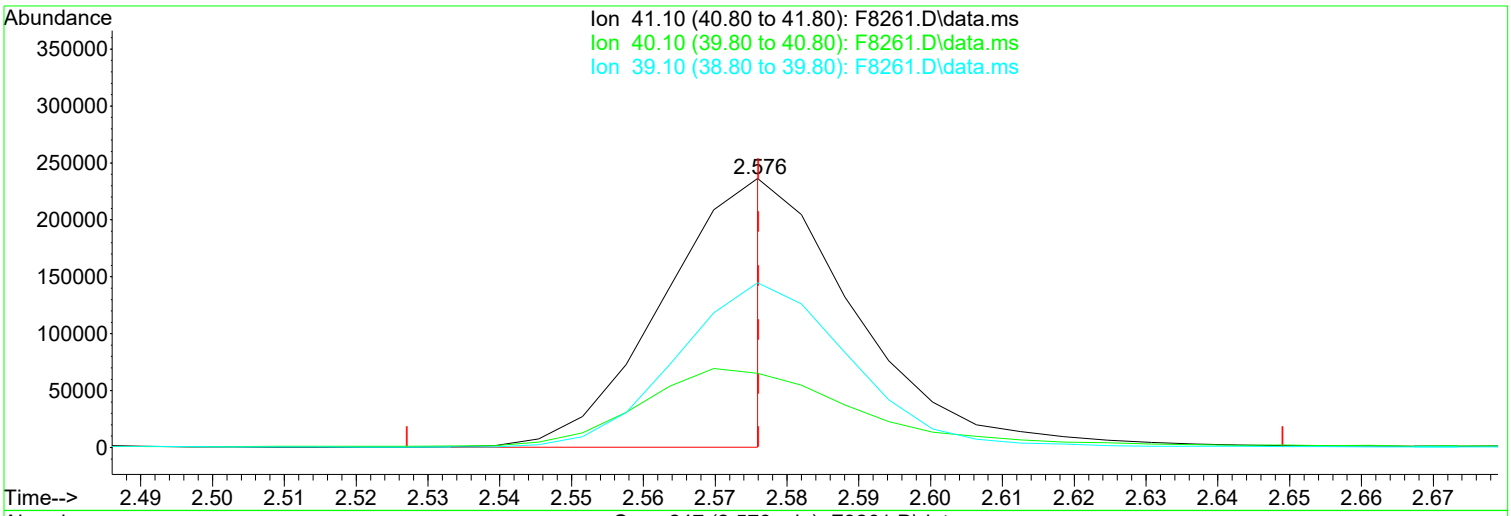


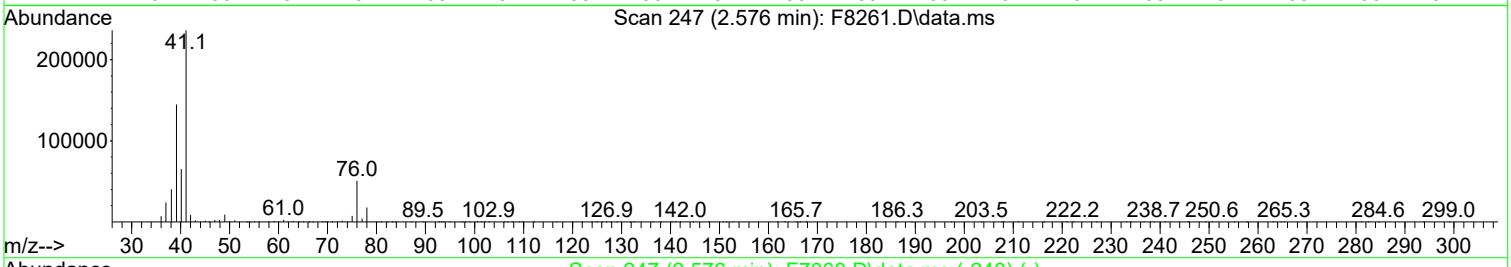
1st FJ 02/21/24
2nd 02/21/24

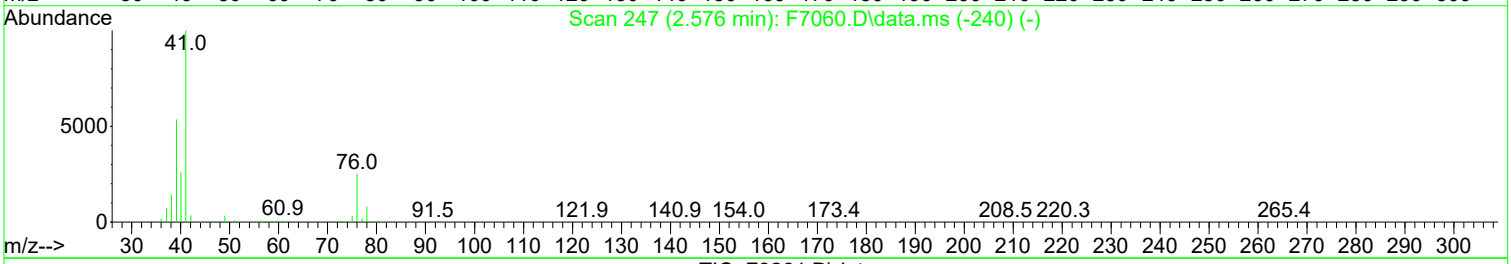
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8261.D
Acq On : 20 Feb 2024 06:47 pm
Operator : F.NAEGLER
Sample : 50 PPB STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 21 09:12:11 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8261.D\data.ms

(20) Acetonitrile

2.576min (-0.000) 343.86 ug/L m

response 253516

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	26.20	27.58
39.10	53.50	61.32
0.00	0.00	0.00

Manual Integration:

After

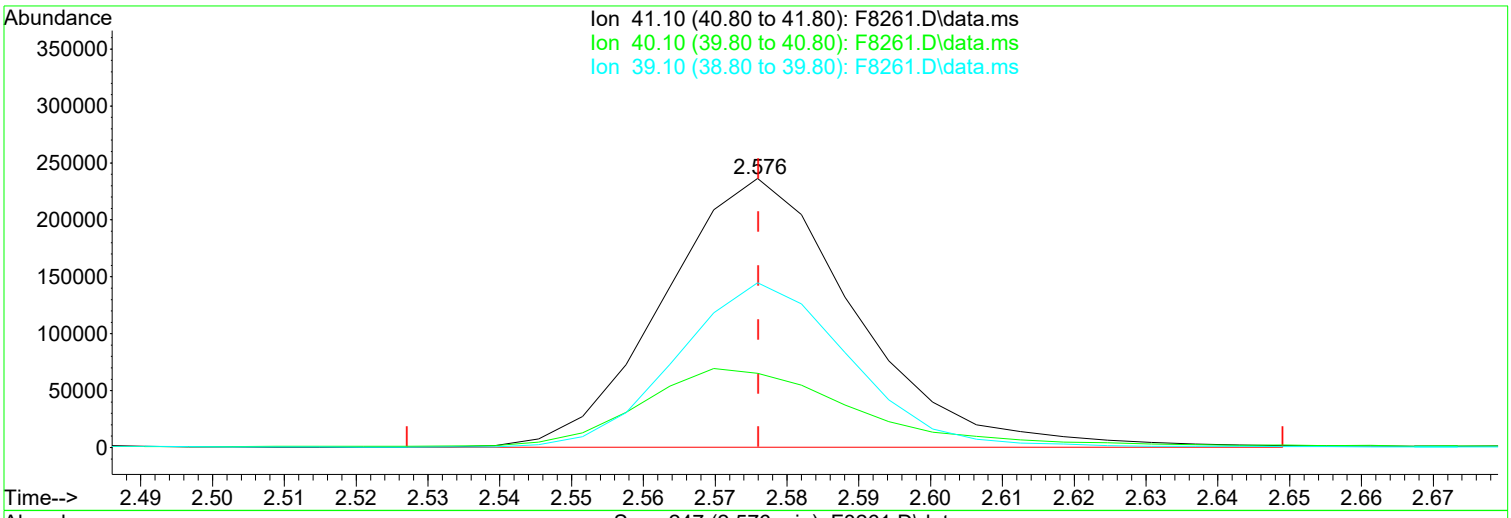
Poor integration.

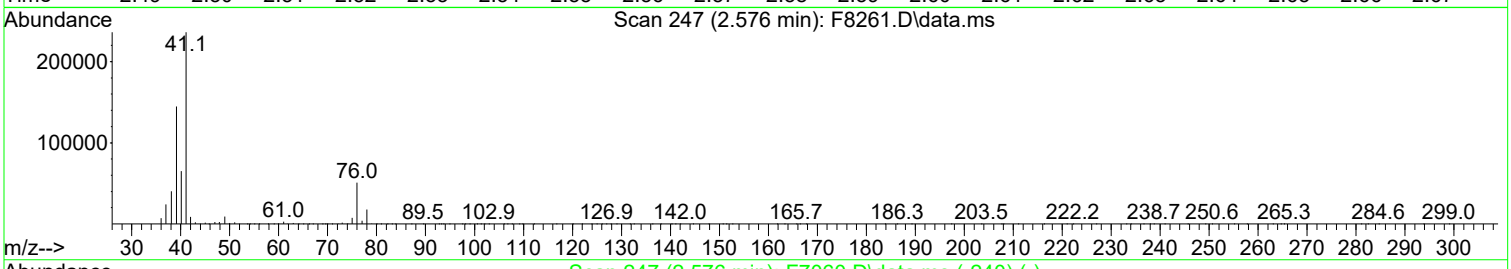
02/21/24

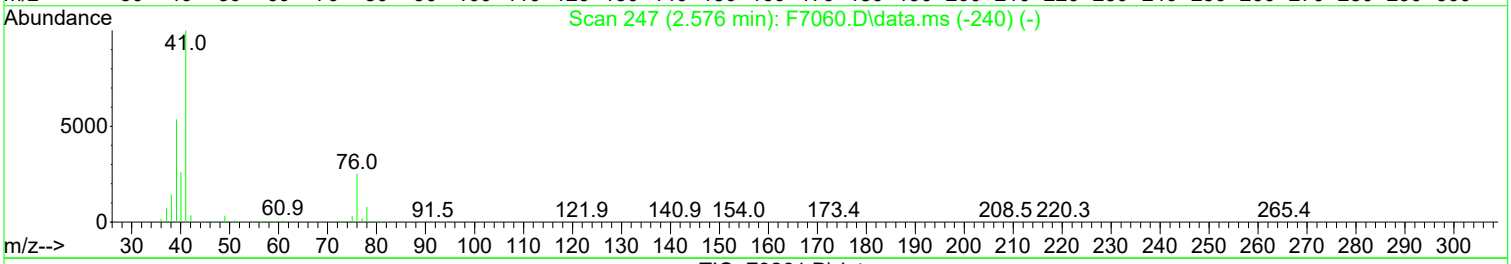
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8261.D
Acq On : 20 Feb 2024 06:47 pm
Operator : F.NAEGLER
Sample : 50 PPB STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 21 09:12:11 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8261.D\data.ms

(20) Acetonitrile

2.576min (-0.000) 596.76 ug/L

response 439964

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	26.20	27.58
39.10	53.50	61.32
0.00	0.00	0.00

Manual Integration:

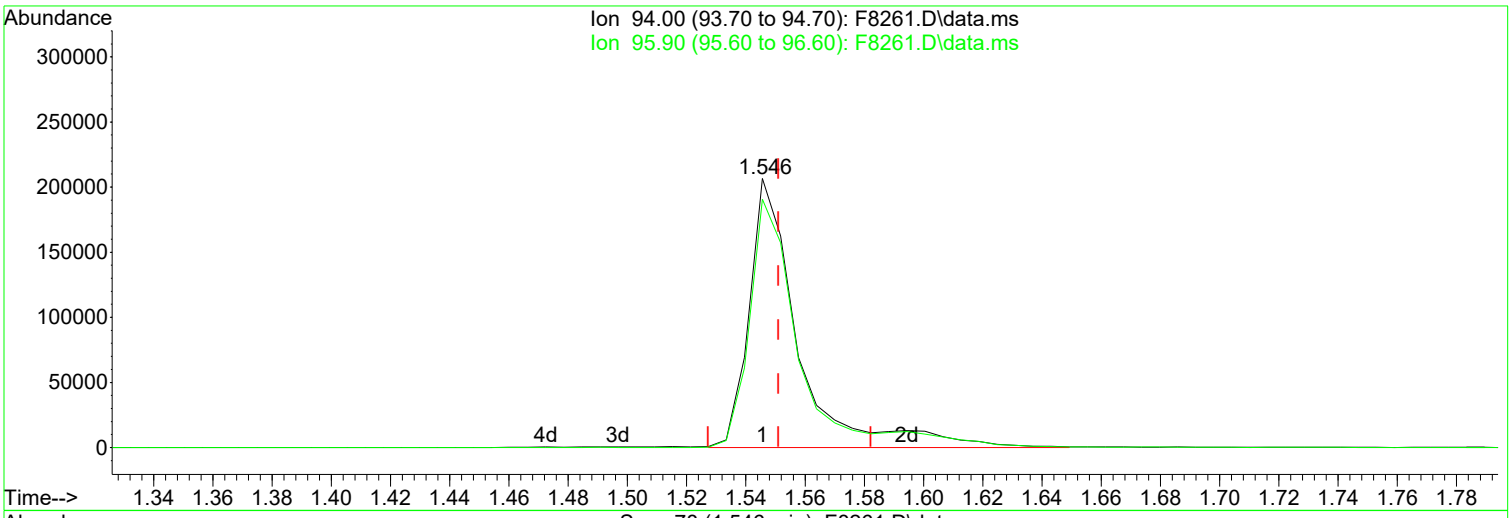
Before

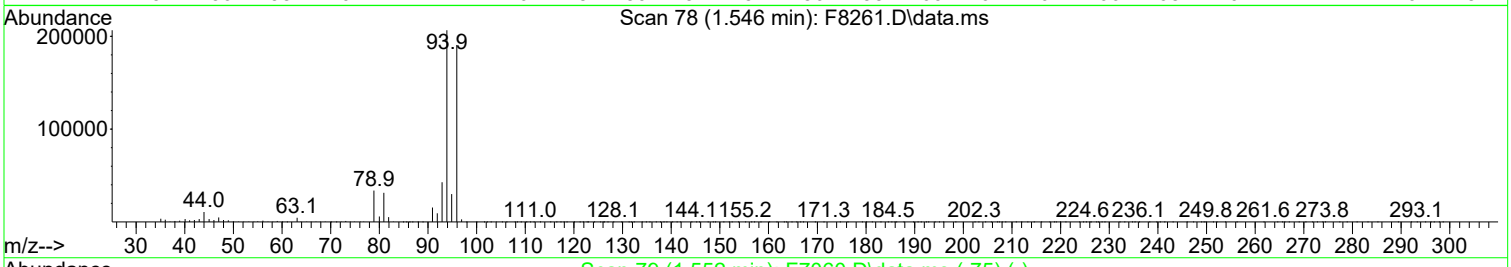
02/21/24

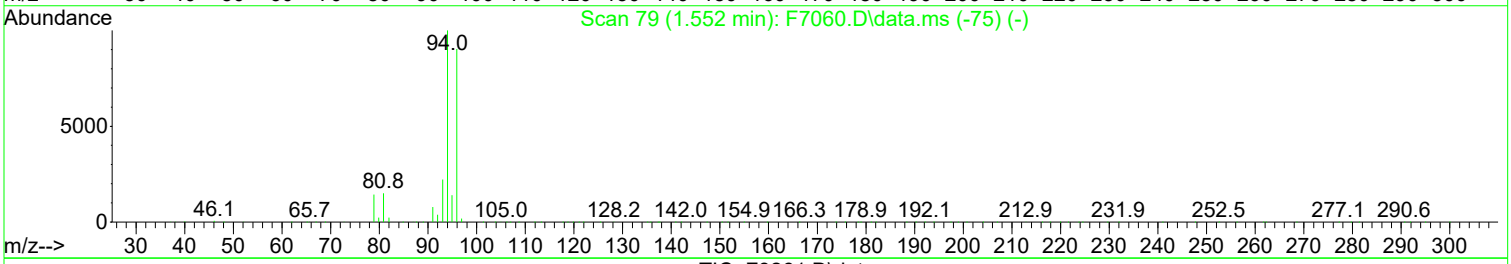
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8261.D
Acq On : 20 Feb 2024 06:47 pm
Operator : F.NAEGLER
Sample : 50 PPB STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 21 09:12:11 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8261.D\data.ms

(6) Bromomethane (P)

1.546min (-0.005) 110.01 ug/L m

response 239961

Ion	Exp%	Act%
94.00	100.00	100.00
95.90	90.10	92.26
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

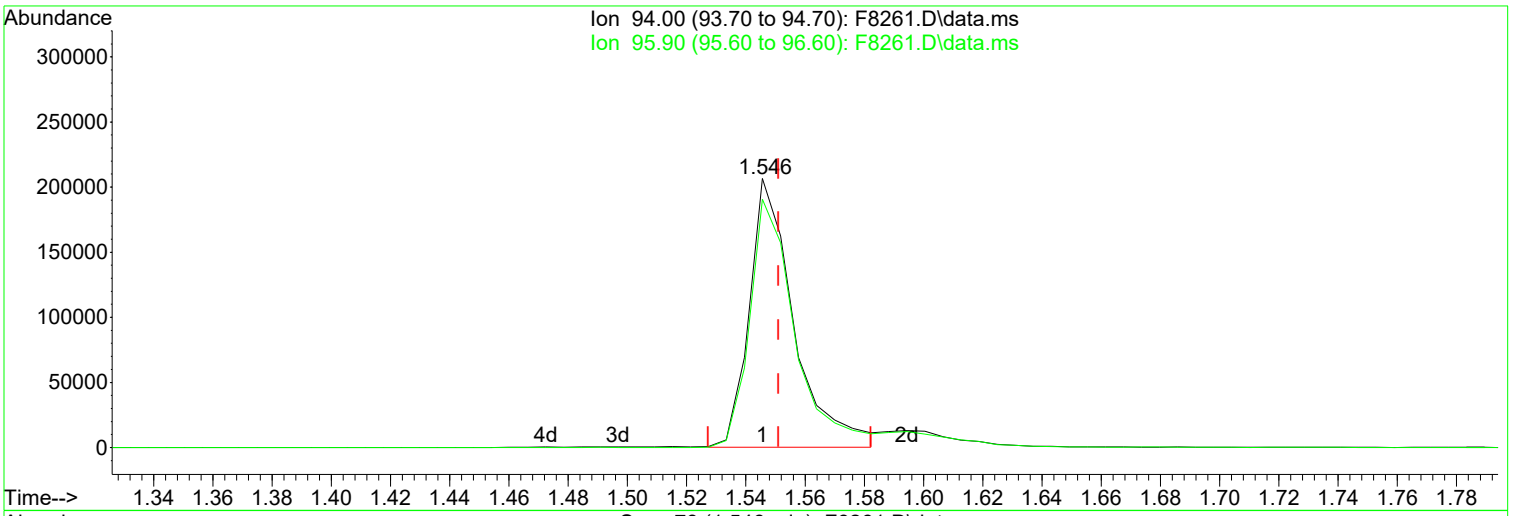
Poor integration.

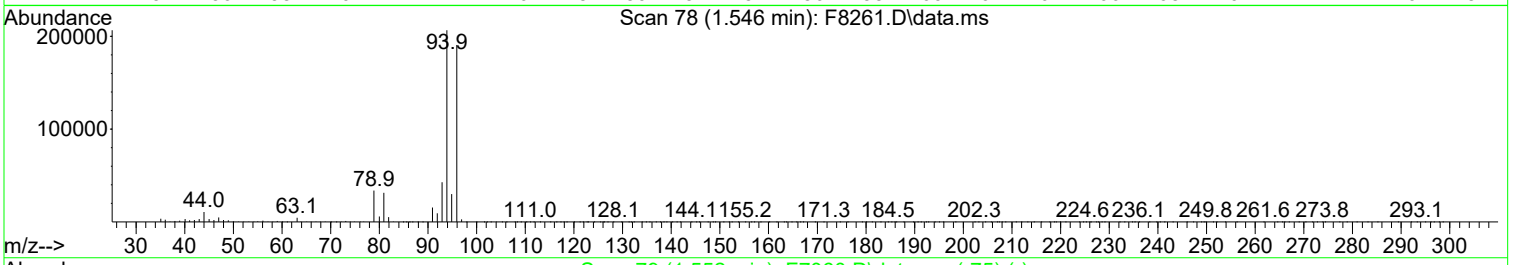
02/21/24

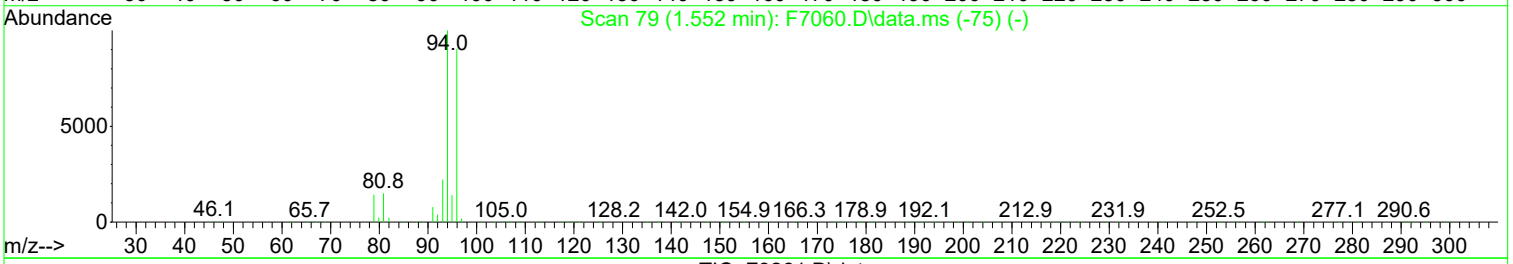
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8261.D
Acq On : 20 Feb 2024 06:47 pm
Operator : F.NAEGLER
Sample : 50 PPB STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 21 09:12:11 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8261.D\data.ms

(6) Bromomethane (P)

1.546min (-0.005) 99.11 ug/L

response 216186

Ion	Exp%	Act%
94.00	100.00	100.00
95.90	90.10	92.26
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

02/21/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8261.D
Acq On : 20 Feb 2024 06:47 pm
Operator : F.NAEGLER
Sample : 50 PPB STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 21 09:12:11 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.350	168	378995	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.484	114	614646	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.934	117	607782	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	12.037	152	366004	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.216	113	196006	51.83	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 103.66%				
48) surr1,1,2-dichloroetha...	5.770	65	258541	54.19	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 108.38%				
65) SURR3,Toluene-d8	8.367	98	799982	53.56	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 107.12%				
70) SURR2,BFB	11.044	95	321128	56.90	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 113.80%				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.149	51	161783	49.294	ug/L		95
3) Dichlorodifluoromethane	1.119	85	208296	48.443	ug/L		97
4) Chloromethane	1.271	50	211938	57.188	ug/L		93
5) Vinyl Chloride	1.326	62	233914	58.823	ug/L		97
6) Bromomethane	1.546	94	239961m	110.013	ug/L		
7) Chloroethane	1.625	64	210109	76.041	ug/L		98
8) Freon 21	1.783	67	393976	68.127	ug/L		98
9) Trichlorofluoromethane	1.820	101	302994	63.480	ug/L		97
10) Diethyl Ether	2.052	59	180854	60.736	ug/L		95
11) Freon 123a	2.064	67	230730	67.873	ug/L		84
12) Freon 123	2.119	83	202128	48.777	ug/L		96
13) Acrolein	2.167	56	201202	247.716	ug/L		99
14) 1,1-Diclethene	2.241	96	132959	47.840	ug/L	#	86
15) Freon 113	2.241	101	133244	48.972	ug/L		94
16) Acetone	2.308	43	111708	61.461	ug/L		98
17) 2-Propanol	2.442	45	363563	1184.971	ug/L		95
18) Iodomethane	2.381	142	216582	48.690	ug/L		94
19) Carbon Disulfide	2.430	76	430199	57.638	ug/L		99
20) Acetonitrile	2.576	41	253516m	343.862	ug/L		
21) Allyl Chloride	2.576	76	83941	52.431	ug/L	#	48
22) Methyl Acetate	2.606	43	261278	61.127	ug/L		92
23) Methylene Chloride	2.704	84	166404	50.802	ug/L	#	84
24) TBA	2.844	59	632939	1173.871	ug/L		98
25) Acrylonitrile	2.978	53	528526	316.822	ug/L		100
26) Methyl-t-Butyl Ether	2.990	73	611692	58.370	ug/L		99
27) trans-1,2-Dichloroethene	2.984	96	172292	56.579	ug/L		92
28) 1,1-Diclethane	3.490	63	327428	62.211	ug/L		98
29) Vinyl Acetate	3.582	86	26560	53.858	ug/L	#	64
30) DIPE	3.594	45	593139	67.333	ug/L		88
31) 2-Chloro-1,3-Butadiene	3.600	53	318860	67.898	ug/L		94
32) ETBE	4.124	59	561751	61.324	ug/L		96
33) 2,2-Dichloropropane	4.319	77	238708	61.230	ug/L		94
34) cis-1,2-Dichloroethene	4.332	96	203384	56.822	ug/L		90
35) 2-Butanone	4.411	43	158605	69.655	ug/L		91
36) Propionitrile	4.521	54	237142	333.005	ug/L		99
37) Bromochloromethane	4.740	130	132482	55.605	ug/L	#	84
38) Methacrylonitrile	4.771	67	117533	63.090	ug/L		86
39) Tetrahydrofuran	4.825	42	107235	74.895	ug/L		86
40) Chloroform	4.917	83	342612	61.824	ug/L		91

1st FNJ 02/21/24
2nd 02/21/24

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8261.D
Acq On : 20 Feb 2024 06:47 pm
Operator : F.NAEGLER
Sample : 50 PPB STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 21 09:12:11 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 1,1,1-Trichloroethane	5.191	97	286936	65.085	ug/L		95
42) TAME	6.069	73	573211	64.042	ug/L		95
44) Cyclohexane	5.258	41	188599	69.625	ug/L		95
46) Carbontetrachloride	5.466	117	209221	51.259	ug/L		97
47) 1,1-Dichloropropene	5.490	75	240948	53.658	ug/L		97
49) Benzene	5.825	78	724408	54.138	ug/L		94
50) 1,2-Dichloroethane	5.892	62	313095	60.220	ug/L		95
51) Iso-Butyl Alcohol	5.892	43	282080	1215.566	ug/L		95
52) n-Heptane	6.301	43	228433	67.385	ug/L		89
53) 1-Butanol	6.892	56	442782	2962.837	ug/L		89
54) Trichloroethene	6.813	130	197676	54.667	ug/L		98
55) Methylcyclohexane	7.032	55	236176	59.651	ug/L		97
56) 1,2-Diclpropane	7.118	63	200710	60.588	ug/L		98
57) Dibromomethane	7.270	93	145603	60.369	ug/L		93
58) 1,4-Dioxane	7.343	88	91966	1100.219	ug/L		95
59) Methyl Methacrylate	7.355	69	183097	60.338	ug/L	#	83
60) Bromodichloromethane	7.508	83	268070	61.027	ug/L		98
61) 2-Nitropropane	7.831	41	145167	142.484	ug/L		96
62) 2-Chloroethylvinyl Ether	7.935	63	134934	66.742	ug/L		94
63) cis-1,3-Dichloropropene	8.075	75	313863	60.284	ug/L		99
64) 4-Methyl-2-pentanone	8.300	43	318169	69.890	ug/L		96
66) Toluene	8.447	91	875132	59.485	ug/L		96
67) trans-1,3-Dichloropropene	8.752	75	288174	61.672	ug/L		99
68) Ethyl Methacrylate	8.892	69	324612	61.630	ug/L		92
69) 1,1,2-Trichloroethane	8.947	97	208406	57.459	ug/L		94
72) Tetrachloroethene	9.056	164	157301	51.785	ug/L		97
73) 2-Hexanone	9.258	43	244254	67.384	ug/L		94
74) 1,3-Dichloropropane	9.123	76	353642	54.991	ug/L		91
75) Dibromochloromethane	9.361	129	212243	55.456	ug/L		97
76) N-Butyl Acetate	9.410	43	455816	70.834	ug/L		93
77) 1,2-Dibromoethane	9.459	107	215814	54.785	ug/L		97
78) 3-Chlorobenzotrifluoride	9.983	180	287894	50.701	ug/L		99
79) Chlorobenzene	9.965	112	575397	54.426	ug/L		99
80) 4-Chlorobenzotrifluoride	10.044	180	246996	48.349	ug/L		96
81) 1,1,1,2-Tetrachloroethane	10.056	131	180993	51.673	ug/L		92
82) Ethylbenzene	10.081	106	294085	54.579	ug/L		98
83) (m+p)Xylene	10.202	106	775435	114.592	ug/L		95
84) o-Xylene	10.568	106	381766	57.371	ug/L		97
85) Styrene	10.587	104	678056	58.130	ug/L		99
86) Bromoform	10.751	173	148049	55.270	ug/L		99
87) 2-Chlorobenzotrifluoride	10.830	180	295979	52.652	ug/L		98
88) Isopropylbenzene	10.910	105	976083	57.548	ug/L		98
89) Cyclohexanone	11.001	55	1442801	1413.239	ug/L		89
90) trans-1,4-Dichloro-2-B...	11.245	53	106121	65.829	ug/L		88
92) 1,1,2,2-Tetrachloroethane	11.196	83	345426	54.475	ug/L		99
93) Bromobenzene	11.166	156	271278	51.304	ug/L		98
94) 1,2,3-Trichloropropane	11.227	110	116091	51.724	ug/L		97
95) n-Propylbenzene	11.275	91	1227639	54.851	ug/L		100
96) 2-Chlorotoluene	11.342	91	708790	51.420	ug/L		98
97) 3-Chlorotoluene	11.397	91	728137	50.592	ug/L		96
98) 4-Chlorotoluene	11.440	91	846069	53.712	ug/L		97
99) 1,3,5-Trimethylbenzene	11.434	105	899203	54.524	ug/L		99
100) tert-Butylbenzene	11.708	119	738317	52.994	ug/L		97
101) 1,2,4-Trimethylbenzene	11.745	105	898027	53.670	ug/L		99
102) 3,4-Dichlorobenzotrifl...	11.812	214	251597	49.039	ug/L		97
103) sec-Butylbenzene	11.891	105	1088733	56.335	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8261.D
Acq On : 20 Feb 2024 06:47 pm
Operator : F.NAEGLER
Sample : 50 PPB STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 21 09:12:11 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) p-Isopropyltoluene	12.013	119	944509	54.270	ug/L	98
105) 1,3-Dclbenz	11.976	146	505954	51.516	ug/L	97
106) 1,4-Dclbenz	12.056	146	528229	52.313	ug/L	98
107) 2,4-Dichlorobenzotrifl...	12.111	214	227171	49.082	ug/L	98
108) 2,5-Dichlorobenzotrifl...	12.153	214	250172	47.681	ug/L	99
109) n-Butylbenzene	12.354	91	829181	55.796	ug/L	98
110) 1,2-Dclbenz	12.361	146	513446	52.625	ug/L	99
111) 1,2-Dibromo-3-chloropr...	13.001	157	80402	49.316	ug/L	97
112) Trielution Dichlorotol...	13.110	125	1267701	147.253	ug/L	97
113) 1,3,5-Trichlorobenzene	13.159	180	361770	49.636	ug/L	99
114) Coelution Dichlorotoluene	13.440	125	924724	97.944	ug/L	99
115) 1,2,4-Tcbenzene	13.647	180	336477	46.817	ug/L	96
116) Hexachlorobt	13.775	225	139867	44.344	ug/L	97
117) Naphthalen	13.842	128	1115366	48.792	ug/L	98
118) 1,2,3-Tclbenzene	14.031	180	338764	47.541	ug/L	97
119) 2,4,5-Trichlorotoluene	14.616	159	237846	44.742	ug/L	99
120) 2,3,6-Trichlorotoluene	14.695	159	212885	44.513	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8261.D
Acq On : 20 Feb 2024 06:47 pm
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Quant Time: Feb 21 09:12:11 2024
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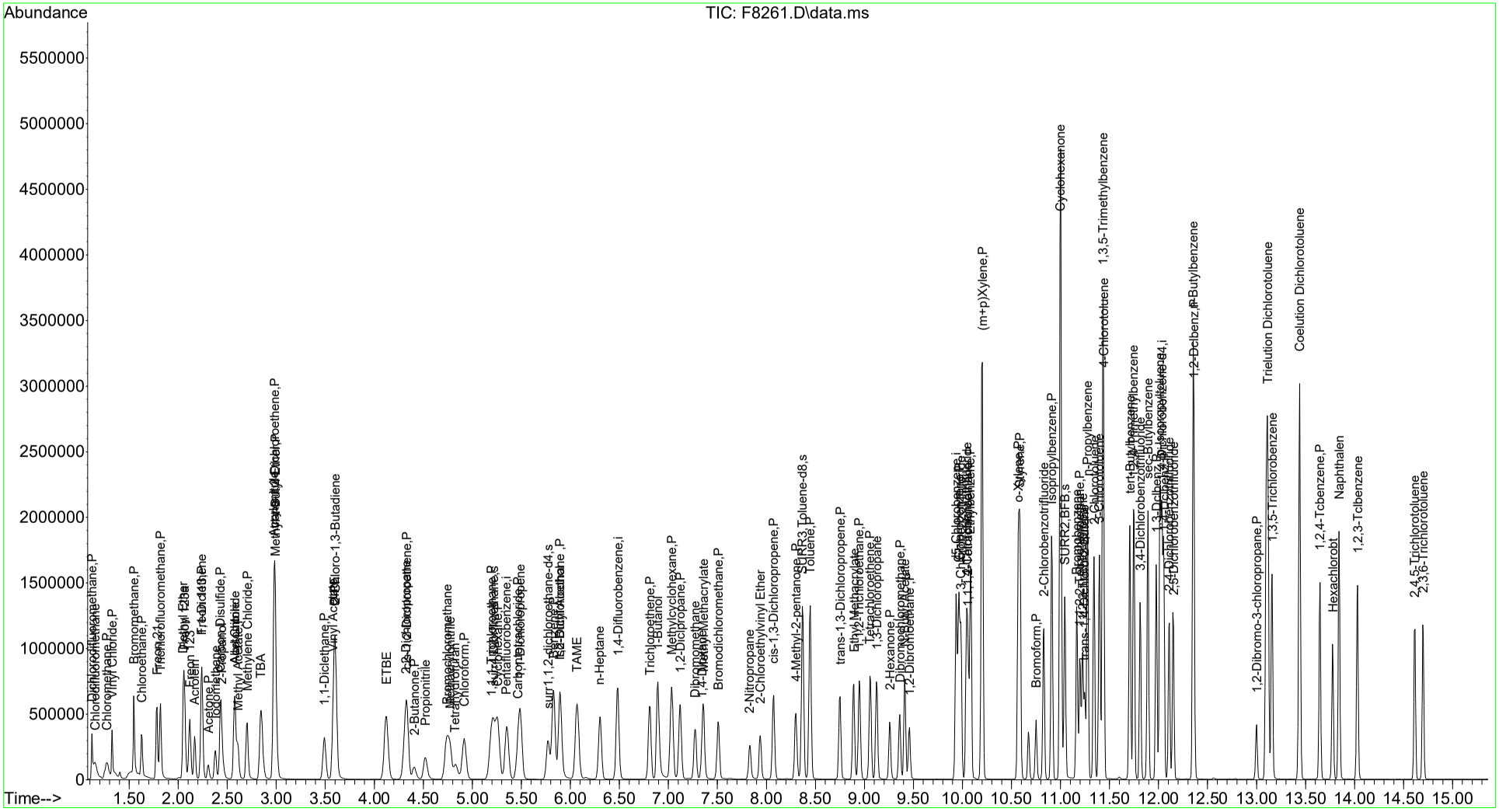
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration

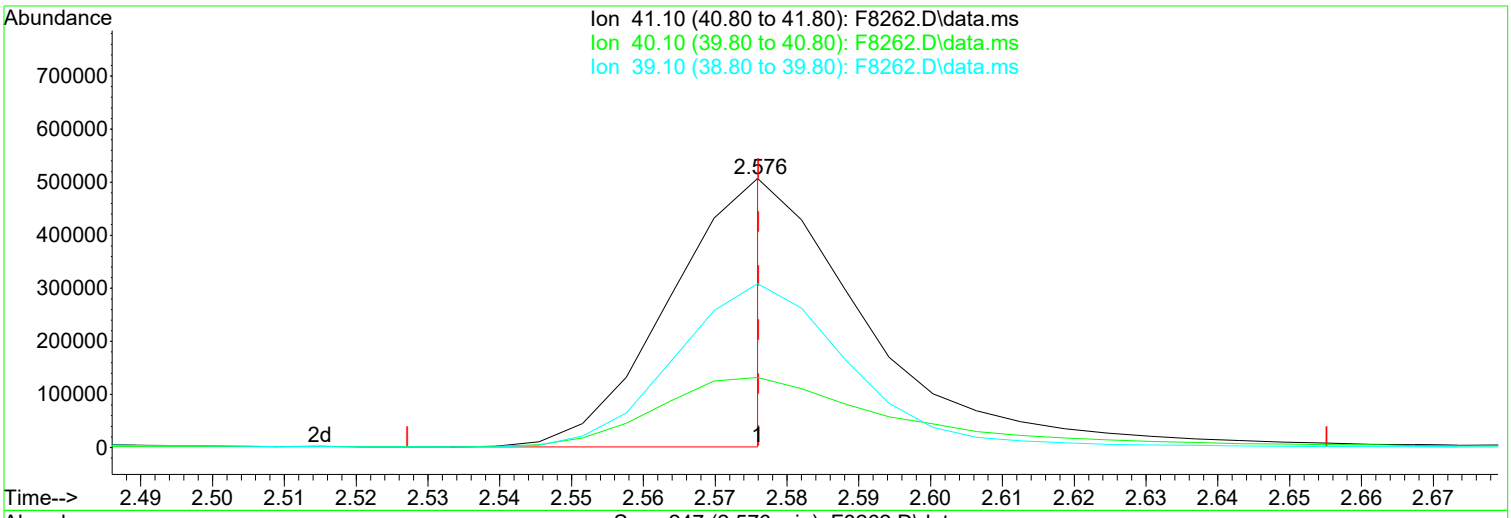


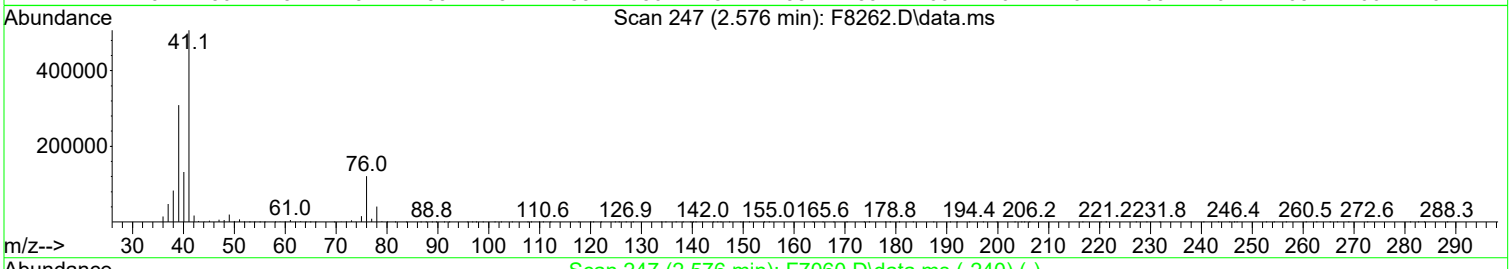
1st FJ 02/21/24
2nd 02/21/24

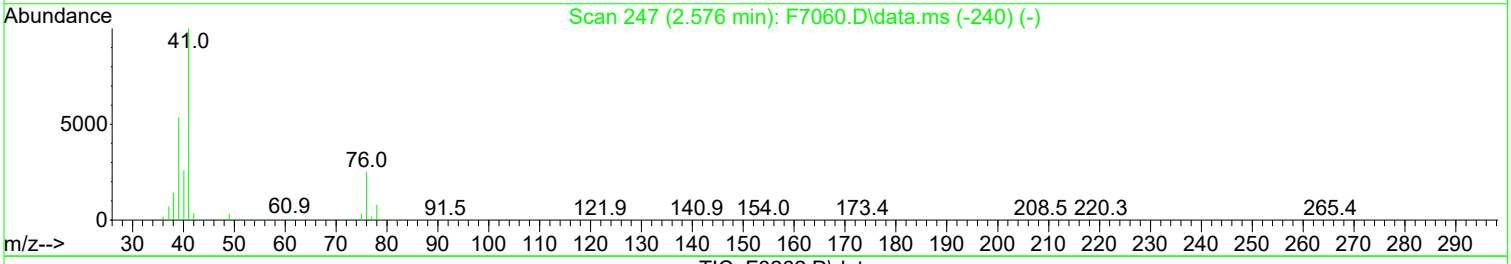
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8262.D
Acq On : 20 Feb 2024 07:09 pm
Operator : F.NAEGLER
Sample : 100 PPB STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 21 09:13:40 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8262.D\data.ms

(20) Acetonitrile

2.576min (-0.000) 585.33 ug/L m

response 514876

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	26.20	26.05
39.10	53.50	60.91
0.00	0.00	0.00

Manual Integration:

After

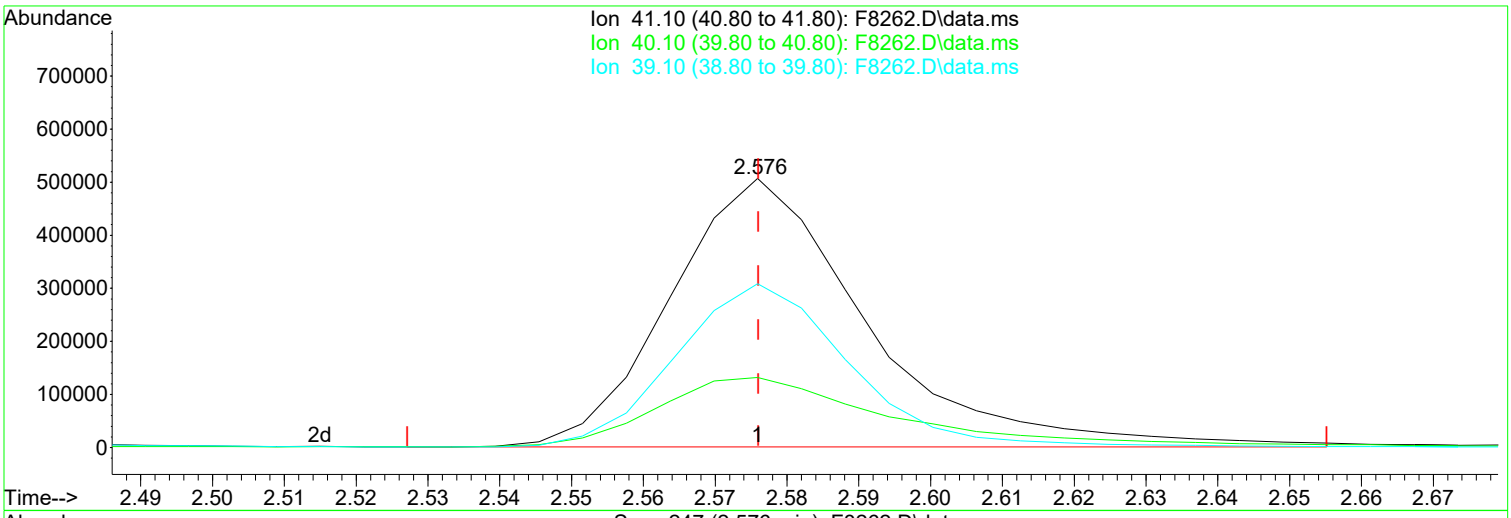
Poor integration.

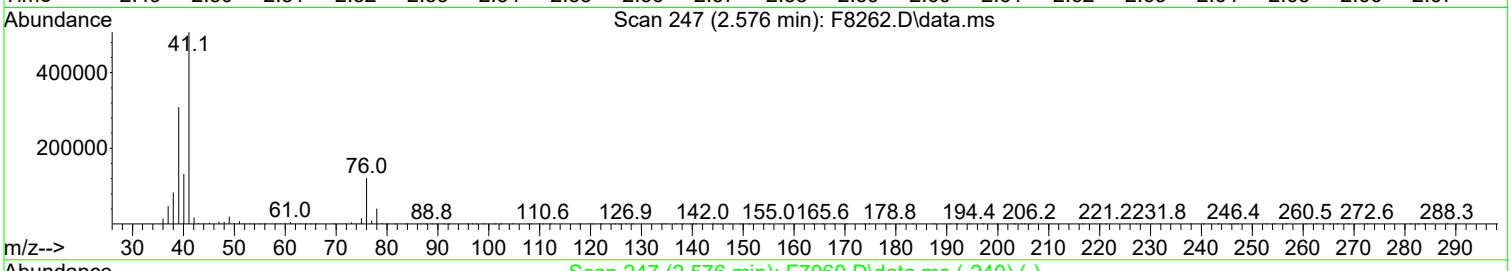
02/21/24

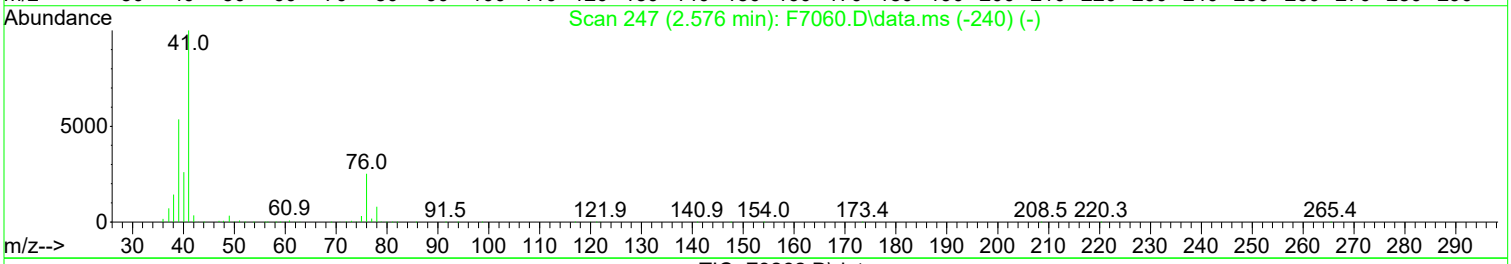
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8262.D
Acq On : 20 Feb 2024 07:09 pm
Operator : F.NAEGLER
Sample : 100 PPB STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 21 09:13:40 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8262.D\data.ms

(20) Acetonitrile

2.576min (-0.000) 1099.68 ug/L

response 967321

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	26.20	26.05
39.10	53.50	60.91
0.00	0.00	0.00

Manual Integration:

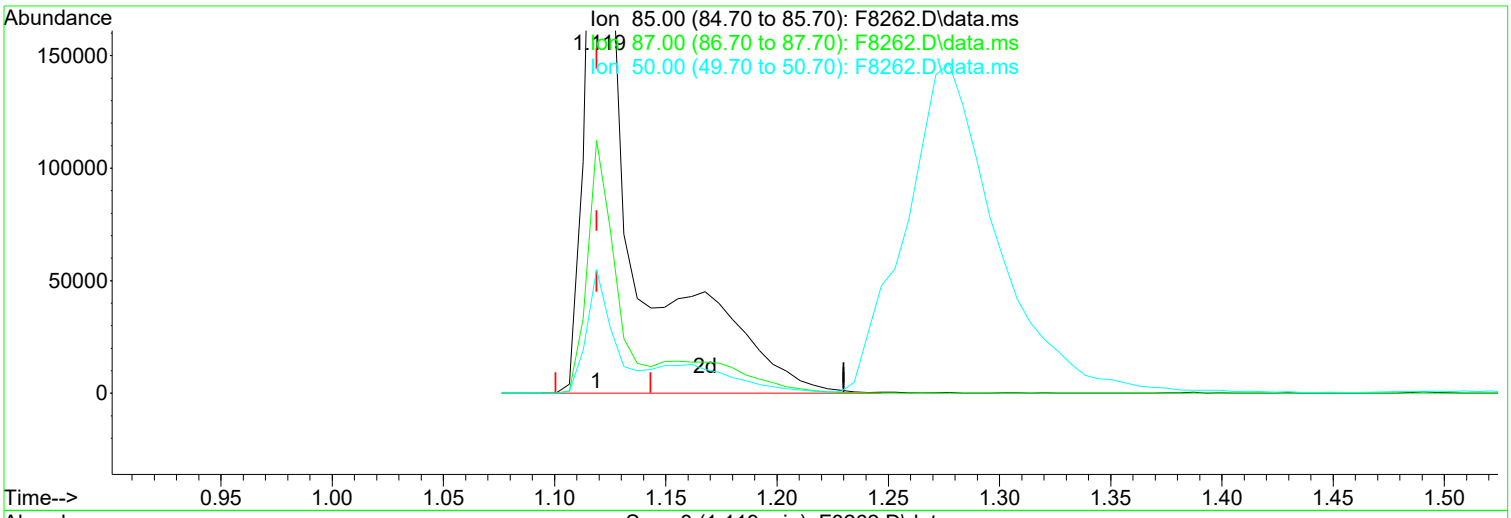
Before

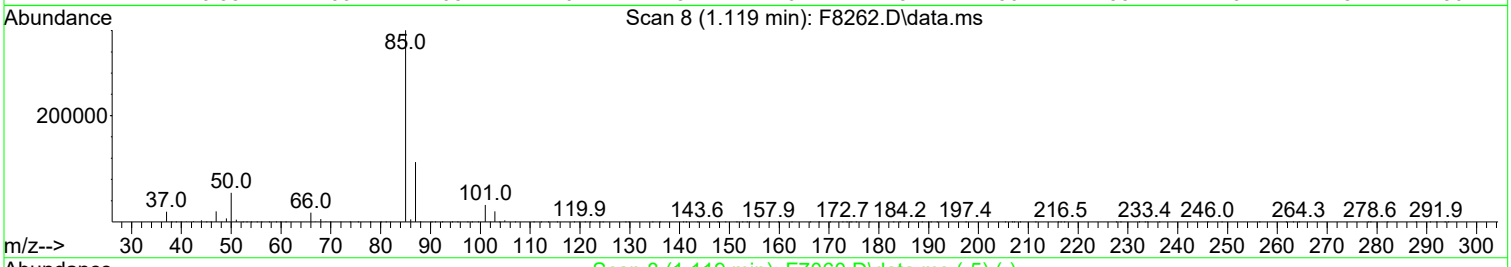
02/21/24

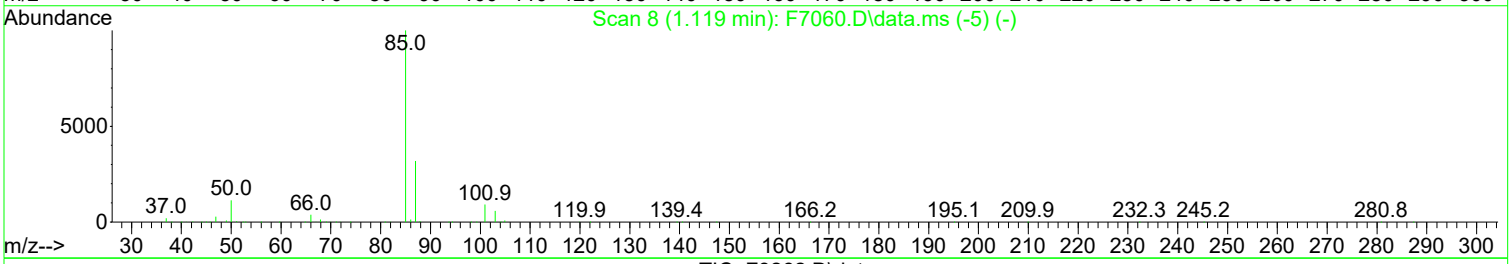
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8262.D
Acq On : 20 Feb 2024 07:09 pm
Operator : F.NAEGLER
Sample : 100 PPB STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 21 09:13:40 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8262.D\data.ms

(3) Dichlorodifluoromethane (P)

1.119min (-0.000) 82.88 ug/L m

response 425214

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.80	31.15
50.00	11.40	15.26
0.00	0.00	0.00

Manual Integration:

After

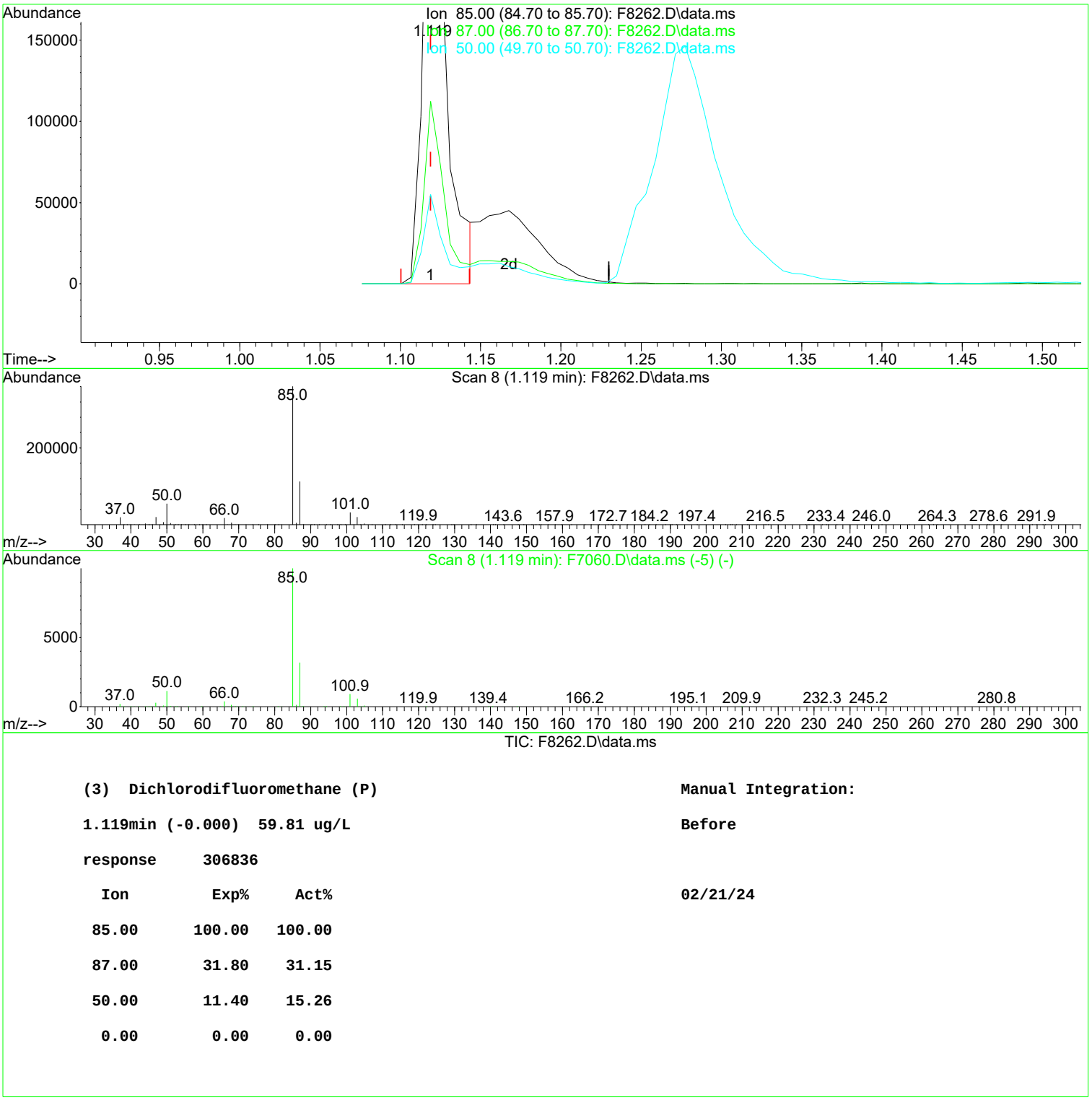
Poor integration.

02/21/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8262.D
Acq On : 20 Feb 2024 07:09 pm
Operator : F.NAEGLER
Sample : 100 PPB STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 21 09:13:40 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration



TIC: F8262.D\data.ms

(3) Dichlorodifluoromethane (P)

1.119min (-0.000) 59.81 ug/L

response 306836

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.80	31.15
50.00	11.40	15.26
0.00	0.00	0.00

Manual Integration:

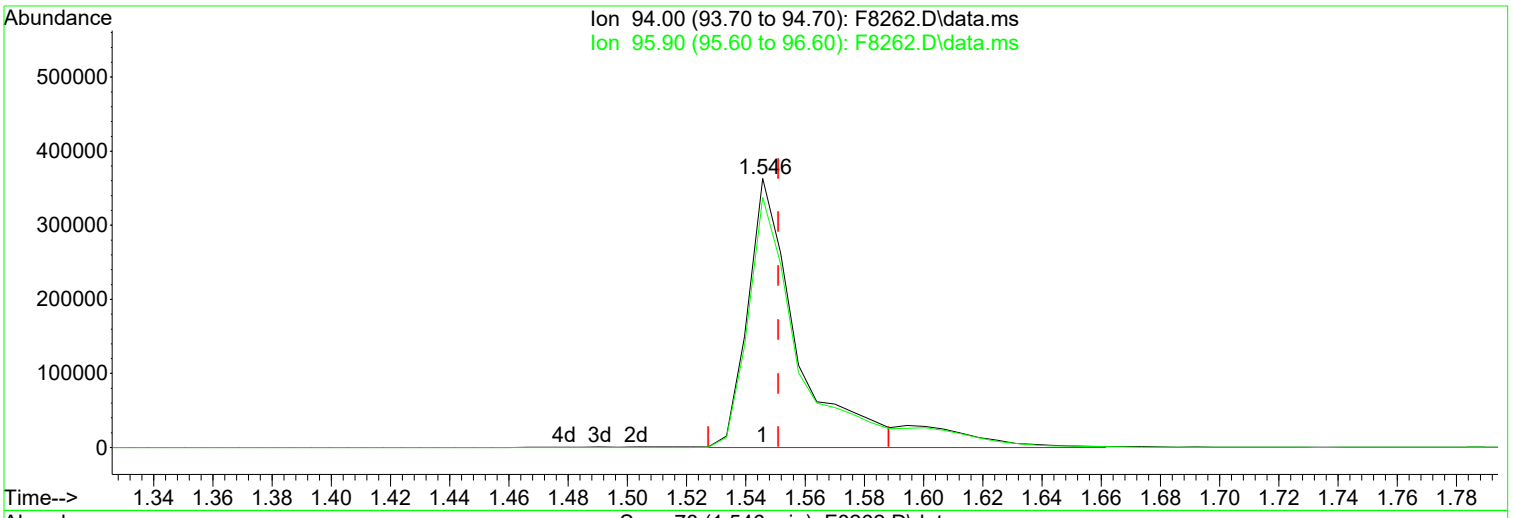
Before

02/21/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8262.D
Acq On : 20 Feb 2024 07:09 pm
Operator : F.NAEGLER
Sample : 100 PPB STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 21 09:13:40 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration



TIC: F8262.D\data.ms

(6) Bromomethane (P)

1.546min (-0.005) 179.71 ug/L m

response 467687

Ion	Exp%	Act%
94.00	100.00	100.00
95.90	90.10	93.07
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

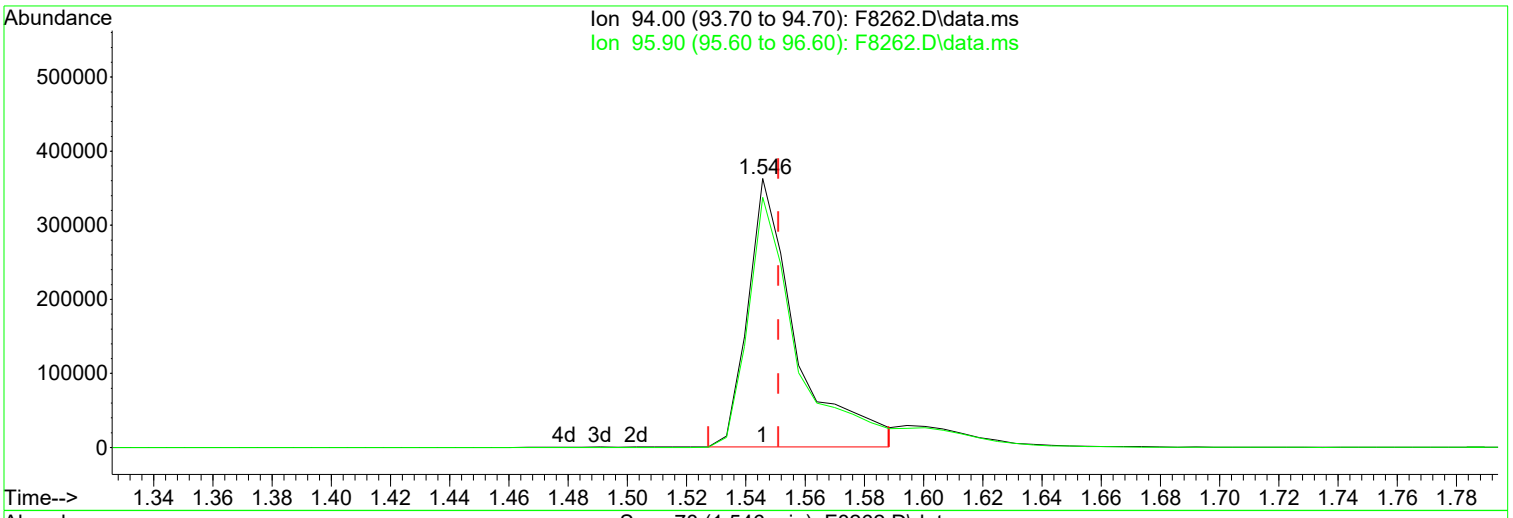
Poor integration.

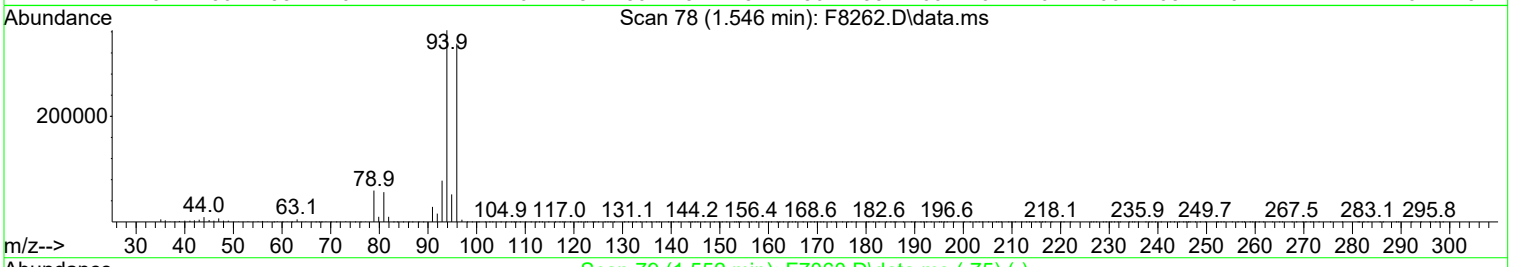
02/21/24

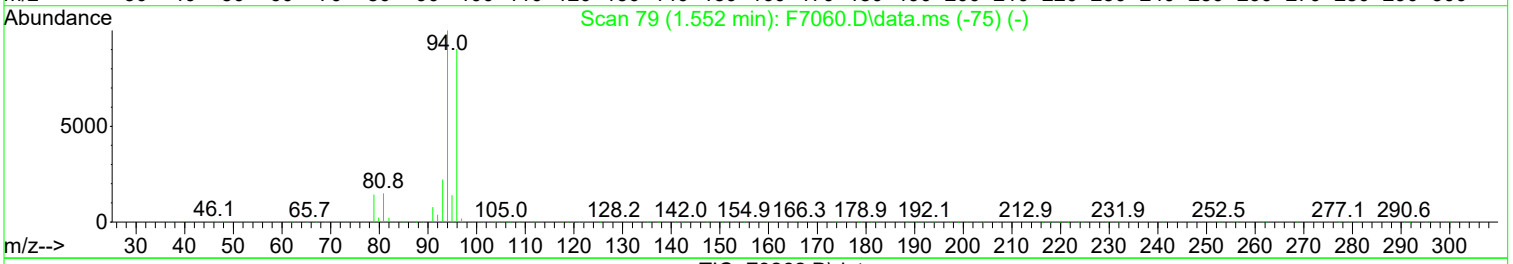
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8262.D
Acq On : 20 Feb 2024 07:09 pm
Operator : F.NAEGLER
Sample : 100 PPB STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 21 09:13:40 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8262.D\data.ms

(6) Bromomethane (P)

1.546min (-0.005) 158.36 ug/L

response 412113

Ion	Exp%	Act%
94.00	100.00	100.00
95.90	90.10	93.07
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

02/21/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8262.D
Acq On : 20 Feb 2024 07:09 pm
Operator : F.NAEGLER
Sample : 100 PPB STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 21 09:13:40 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.356	168	452187	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.484	114	700225	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.934	117	678091	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	12.038	152	399344	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.216	113	437514	101.54	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 203.08%#				
48) surr1,1,2-dichloroetha...	5.770	65	558966	102.83	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 205.66%#				
65) SURR3,Toluene-d8	8.367	98	1789338	105.16	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 210.32%#				
70) SURR2,BFB	11.044	95	698938	108.70	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 217.40%#				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.155	51	324854	82.960	ug/L		93
3) Dichlorodifluoromethane	1.119	85	425214m	82.884	ug/L		
4) Chloromethane	1.277	50	413290	93.469	ug/L		98
5) Vinyl Chloride	1.326	62	467768	98.591	ug/L		98
6) Bromomethane	1.546	94	467687m	179.710	ug/L		
7) Chloroethane	1.619	64	524010	158.948	ug/L		98
8) Freon 21	1.777	67	843874	122.305	ug/L		99
9) Trichlorofluoromethane	1.814	101	688611	120.918	ug/L		99
10) Diethyl Ether	2.052	59	295871	83.279	ug/L		92
11) Freon 123a	2.064	67	357681	88.187	ug/L		85
12) Freon 123	2.119	83	398162	80.531	ug/L		97
13) Acrolein	2.167	56	437896	451.864	ug/L		100
14) 1,1-Diclethene	2.241	96	289118	87.189	ug/L		91
15) Freon 113	2.241	101	281904	86.840	ug/L		95
16) Acetone	2.308	43	242092	111.639	ug/L		95
17) 2-Propanol	2.454	45	838883	2291.633	ug/L		98
18) Iodomethane	2.375	142	500207	94.250	ug/L		92
19) Carbon Disulfide	2.430	76	995977	111.842	ug/L		100
20) Acetonitrile	2.576	41	514876m	585.325	ug/L		
21) Allyl Chloride	2.576	76	192651	100.856	ug/L	#	70
22) Methyl Acetate	2.606	43	591535	115.991	ug/L		95
23) Methylene Chloride	2.704	84	367309	93.986	ug/L		91
24) TBA	2.850	59	1503695	2337.404	ug/L		100
25) Acrylonitrile	2.978	53	1194630	600.203	ug/L		99
26) Methyl-t-Butyl Ether	2.990	73	1389055	111.094	ug/L		99
27) trans-1,2-Dichloroethene	2.984	96	389552	107.219	ug/L		100
28) 1,1-Diclethane	3.490	63	686007	109.243	ug/L		99
29) Vinyl Acetate	3.588	86	63566	108.035	ug/L	#	51
30) DIPE	3.594	45	1258061	119.698	ug/L		86
31) 2-Chloro-1,3-Butadiene	3.600	53	692002	123.504	ug/L		97
32) ETBE	4.118	59	1207939	110.522	ug/L		97
33) 2,2-Dichloropropane	4.319	77	516957	111.139	ug/L		95
34) cis-1,2-Dichloroethene	4.338	96	429427	100.555	ug/L		98
35) 2-Butanone	4.405	43	340080	125.180	ug/L		92
36) Propionitrile	4.527	54	500531	589.100	ug/L		99
37) Bromochloromethane	4.740	130	285417	100.405	ug/L	#	84
38) Methacrylonitrile	4.777	67	249191	112.111	ug/L		89
39) Tetrahydrofuran	4.832	42	223783	130.997	ug/L		88
40) Chloroform	4.917	83	709497	107.305	ug/L		95

1st FNJ 02/21/24
2nd 02/21/24

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8262.D
Acq On : 20 Feb 2024 07:09 pm
Operator : F.NAEGLER
Sample : 100 PPB STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 21 09:13:40 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 1,1,1-Trichloroethane	5.197	97	602954	114.629	ug/L		95
42) TAME	6.069	73	1214491	113.727	ug/L		95
44) Cyclohexane	5.258	41	362105	117.340	ug/L		95
46) Carbontetrachloride	5.472	117	459359	98.787	ug/L		97
47) 1,1-Dichloropropene	5.490	75	498203	97.388	ug/L		97
49) Benzene	5.831	78	1490309	97.764	ug/L		97
50) 1,2-Dichloroethane	5.892	62	625193	105.552	ug/L		95
51) Iso-Butyl Alcohol	5.905	43	629970	2382.943	ug/L		94
52) n-Heptane	6.301	43	437381	113.253	ug/L		93
53) 1-Butanol	6.898	56	1040505	6111.522	ug/L		93
54) Trichloroethene	6.807	130	404833	98.273	ug/L		98
55) Methylcyclohexane	7.038	55	462932	102.633	ug/L		97
56) 1,2-Diclpropane	7.118	63	409304	108.455	ug/L		99
57) Dibromomethane	7.270	93	297108	108.130	ug/L		94
58) 1,4-Dioxane	7.349	88	193846	2035.618	ug/L		96
59) Methyl Methacrylate	7.355	69	392142	113.434	ug/L	#	83
60) Bromodichloromethane	7.508	83	555526	111.011	ug/L		97
61) 2-Nitropropane	7.831	41	319045	274.876	ug/L		93
62) 2-Chloroethylvinyl Ether	7.935	63	296450	128.711	ug/L		94
63) cis-1,3-Dichloropropene	8.075	75	672016	113.299	ug/L		99
64) 4-Methyl-2-pentanone	8.300	43	684651	132.012	ug/L		95
66) Toluene	8.447	91	1784159	106.452	ug/L		98
67) trans-1,3-Dichloropropene	8.752	75	632113	118.745	ug/L		98
68) Ethyl Methacrylate	8.892	69	699800	116.625	ug/L		90
69) 1,1,2-Trichloroethane	8.947	97	426464	103.209	ug/L		95
72) Tetrachloroethene	9.056	164	326301	96.282	ug/L		97
73) 2-Hexanone	9.258	43	514994	127.344	ug/L		95
74) 1,3-Dichloropropane	9.123	76	715656	99.745	ug/L		92
75) Dibromochloromethane	9.361	129	468281	109.667	ug/L		98
76) N-Butyl Acetate	9.410	43	981784	136.750	ug/L		93
77) 1,2-Dibromoethane	9.459	107	459721	104.601	ug/L		99
78) 3-Chlorobenzotrifluoride	9.983	180	609601	96.225	ug/L		99
79) Chlorobenzene	9.965	112	1179362	99.987	ug/L		98
80) 4-Chlorobenzotrifluoride	10.044	180	516777	90.668	ug/L		96
81) 1,1,1,2-Tetrachloroethane	10.056	131	394705	101.002	ug/L		97
82) Ethylbenzene	10.087	106	602566	100.234	ug/L		96
83) (m+p)Xylene	10.202	106	1585904	210.061	ug/L		97
84) o-Xylene	10.568	106	783726	105.564	ug/L		96
85) Styrene	10.587	104	1390436	106.842	ug/L		99
86) Bromoform	10.751	173	346009	115.779	ug/L		98
87) 2-Chlorobenzotrifluoride	10.830	180	630297	100.498	ug/L		96
88) Isopropylbenzene	10.910	105	1990396	105.183	ug/L		98
89) Cyclohexanone	11.001	55	3090401	2713.214	ug/L		90
90) trans-1,4-Dichloro-2-B...	11.251	53	224415	124.776	ug/L		100
92) 1,1,2,2-Tetrachloroethane	11.196	83	712398	102.968	ug/L		98
93) Bromobenzene	11.166	156	562829	97.556	ug/L		98
94) 1,2,3-Trichloropropane	11.227	110	238458	97.373	ug/L		97
95) n-Propylbenzene	11.275	91	2440497	99.937	ug/L		99
96) 2-Chlorotoluene	11.342	91	1401591	93.191	ug/L		99
97) 3-Chlorotoluene	11.397	91	1443267	91.908	ug/L		96
98) 4-Chlorotoluene	11.440	91	1682491	97.895	ug/L		98
99) 1,3,5-Trimethylbenzene	11.434	105	1781463	99.002	ug/L		98
100) tert-Butylbenzene	11.708	119	1453658	95.629	ug/L		98
101) 1,2,4-Trimethylbenzene	11.751	105	1762802	96.558	ug/L		98
102) 3,4-Dichlorobenzotrifl...	11.818	214	524014	93.608	ug/L		99
103) sec-Butylbenzene	11.891	105	2123945	100.725	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8262.D
Acq On : 20 Feb 2024 07:09 pm
Operator : F.NAEGLER
Sample : 100 PPB STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 21 09:13:40 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) p-Isopropyltoluene	12.019	119	1853606	97.614	ug/L	99
105) 1,3-Dclbenz	11.977	146	1015894	94.801	ug/L	99
106) 1,4-Dclbenz	12.056	146	1045598	94.905	ug/L	98
107) 2,4-Dichlorobenzotrifl...	12.111	214	468319	92.737	ug/L	99
108) 2,5-Dichlorobenzotrifl...	12.153	214	523070	91.371	ug/L	96
109) n-Butylbenzene	12.355	91	1656068	102.135	ug/L	98
110) 1,2-Dclbenz	12.361	146	1039482	97.646	ug/L	99
111) 1,2-Dibromo-3-chloropr...	13.001	157	182724	102.720	ug/L	97
112) Trielution Dichlorotol...	13.110	125	2602717	277.084	ug/L	98
113) 1,3,5-Trichlorobenzene	13.159	180	752710	94.652	ug/L	99
114) Coelution Dichlorotoluene	13.440	125	1930300	187.382	ug/L	99
115) 1,2,4-Tcbenzene	13.647	180	714936	91.170	ug/L	99
116) Hexachlorobt	13.775	225	284321	82.617	ug/L	98
117) Naphthalen	13.842	128	2370817	95.054	ug/L	98
118) 1,2,3-Tclbenzene	14.031	180	717560	92.294	ug/L	98
119) 2,4,5-Trichlorotoluene	14.616	159	511272	88.148	ug/L	98
120) 2,3,6-Trichlorotoluene	14.702	159	472805	90.607	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8262.D
Acq On : 20 Feb 2024 07:09 pm
Operator : F.NAEGLER
Sample : 100 PPB STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

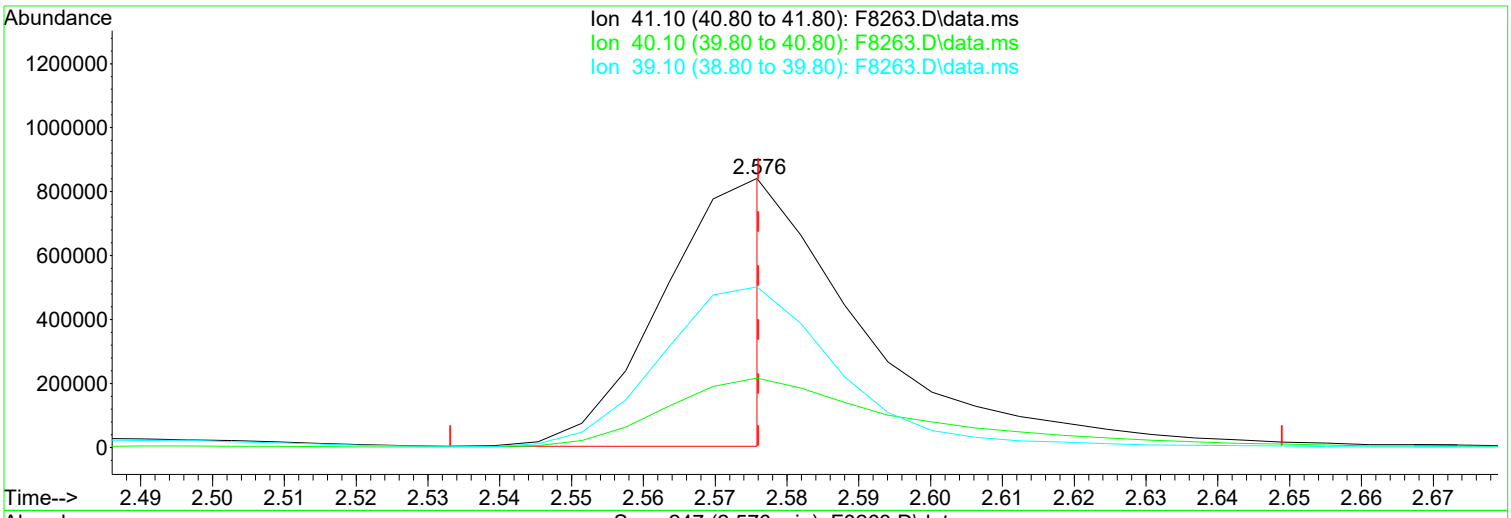
Quant Time: Feb 21 09:13:40 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration

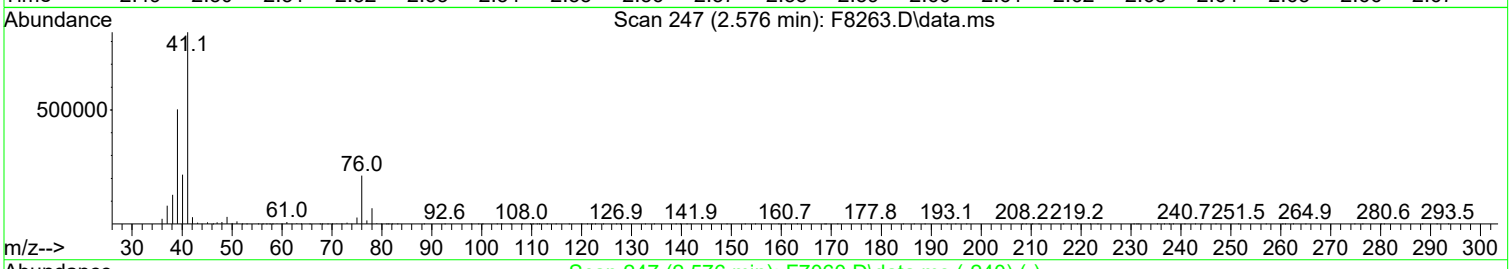
1st FJ 02/21/24
2nd 02/21/24

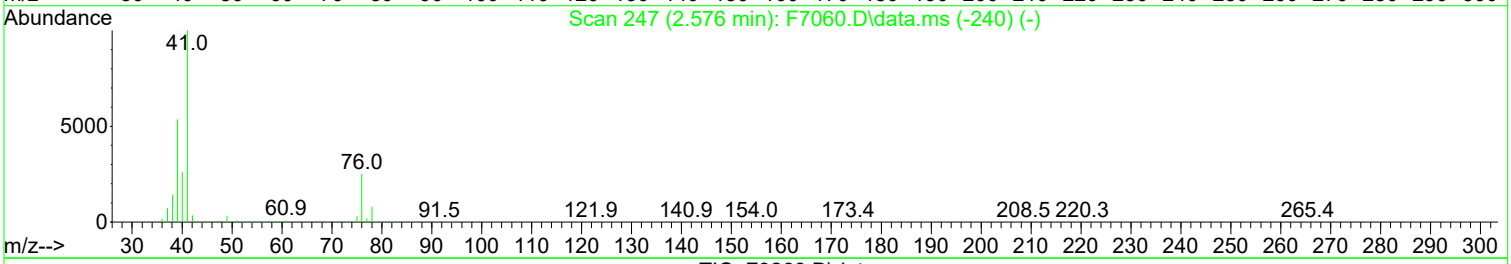
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8263.D
Acq On : 20 Feb 2024 07:32 pm
Operator : F.NAEGLER
Sample : 150 PPB STD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 21 09:15:25 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8263.D\data.ms

(20) Acetonitrile

2.576min (-0.000) 978.02 ug/L m

response 896223

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	26.20	25.78
39.10	53.50	59.72
0.00	0.00	0.00

Manual Integration:

After

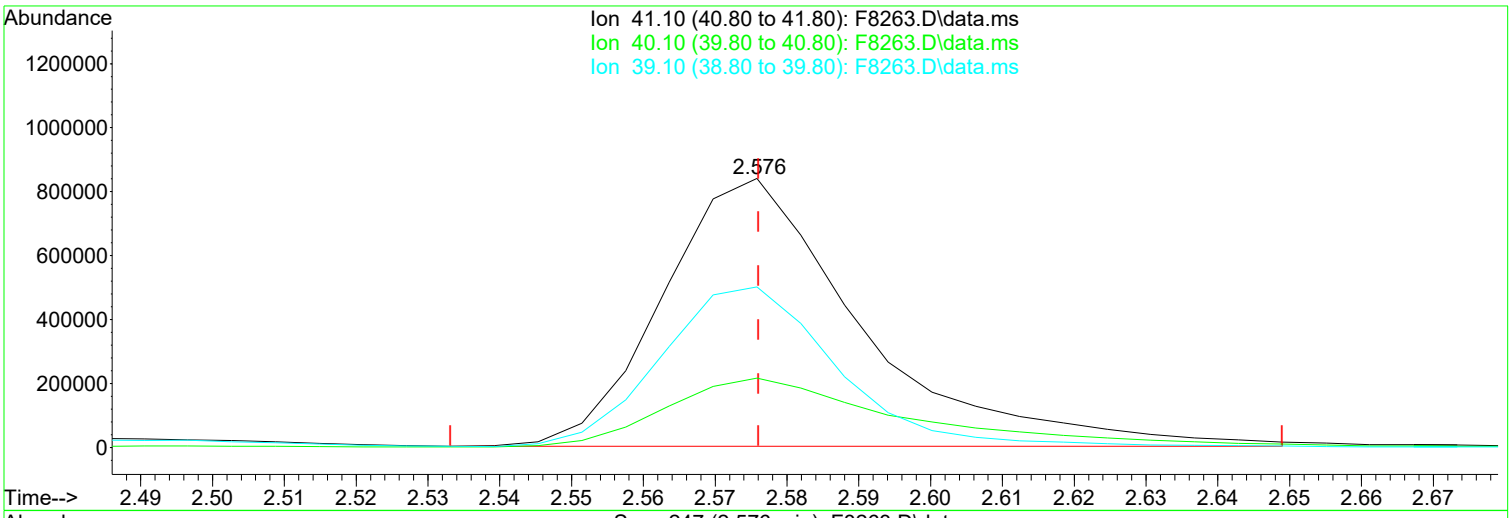
Poor integration.

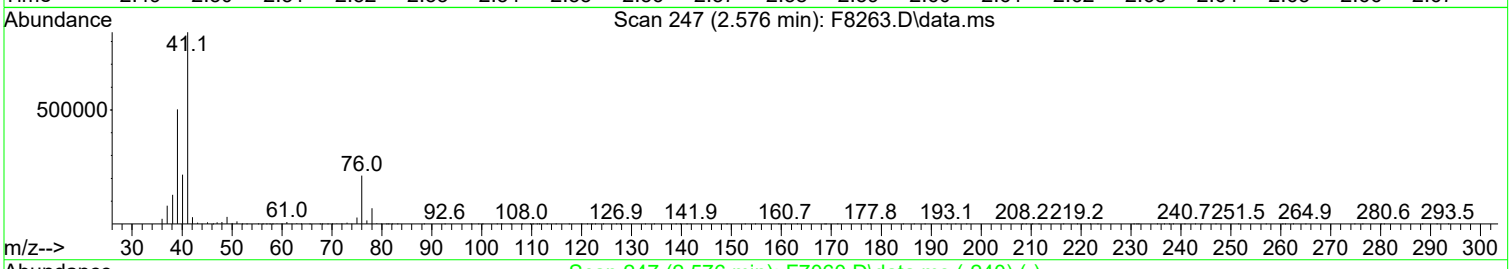
02/21/24

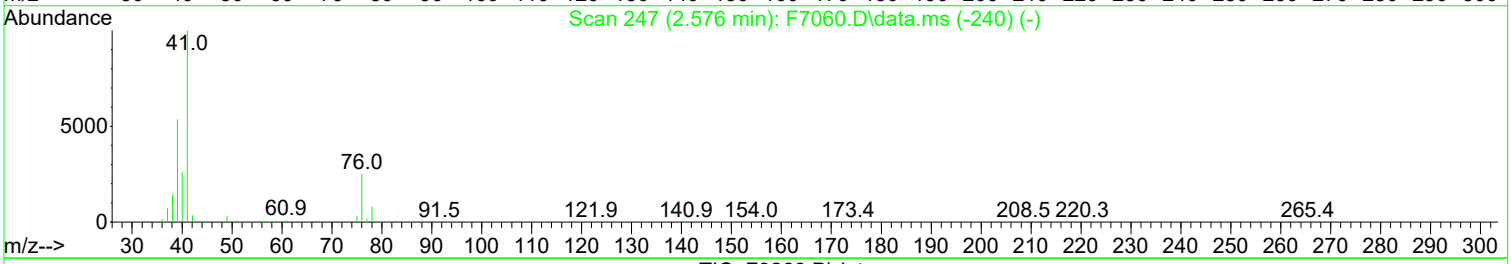
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8263.D
Acq On : 20 Feb 2024 07:32 pm
Operator : F.NAEGLER
Sample : 150 PPB STD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 21 09:15:25 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8263.D\data.ms

(20) Acetonitrile

2.576min (-0.000) 1767.73 ug/L

response 1619889

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	26.20	25.78
39.10	53.50	59.72
0.00	0.00	0.00

Manual Integration:

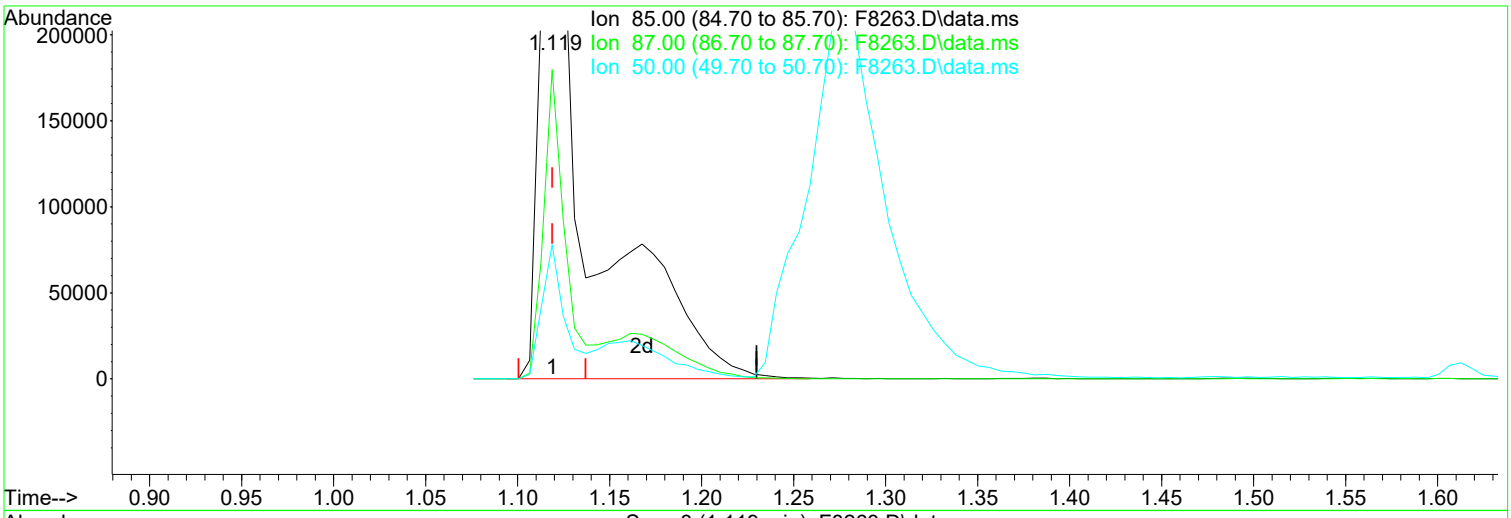
Before

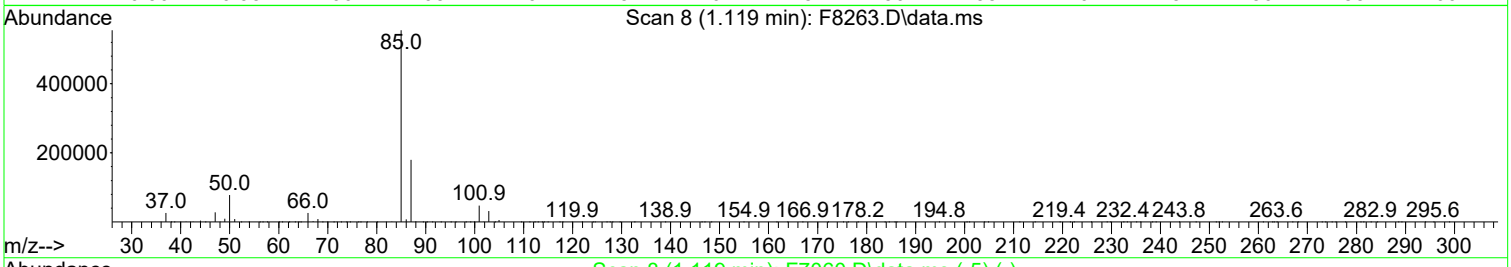
02/21/24

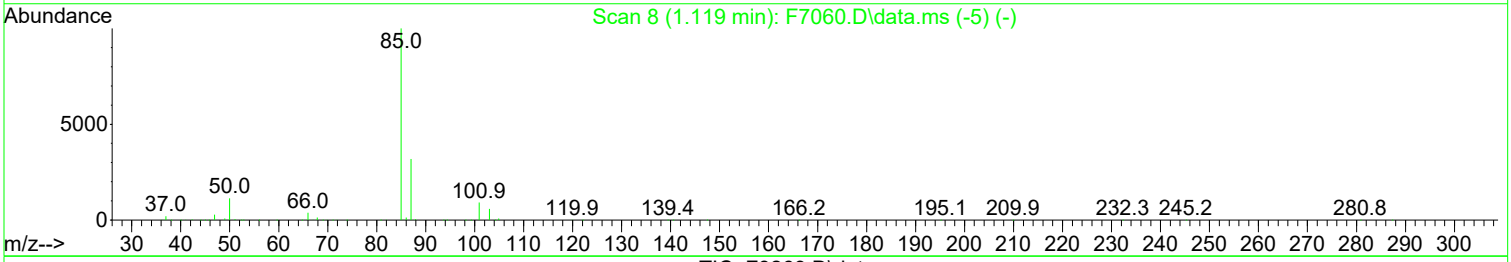
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8263.D
Acq On : 20 Feb 2024 07:32 pm
Operator : F.NAEGLER
Sample : 150 PPB STD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 21 09:15:25 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8263.D\data.ms

(3) Dichlorodifluoromethane (P)

1.119min (-0.000) 126.83 ug/L m

response 677814

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.80	32.37
50.00	11.40	14.04
0.00	0.00	0.00

Manual Integration:

After

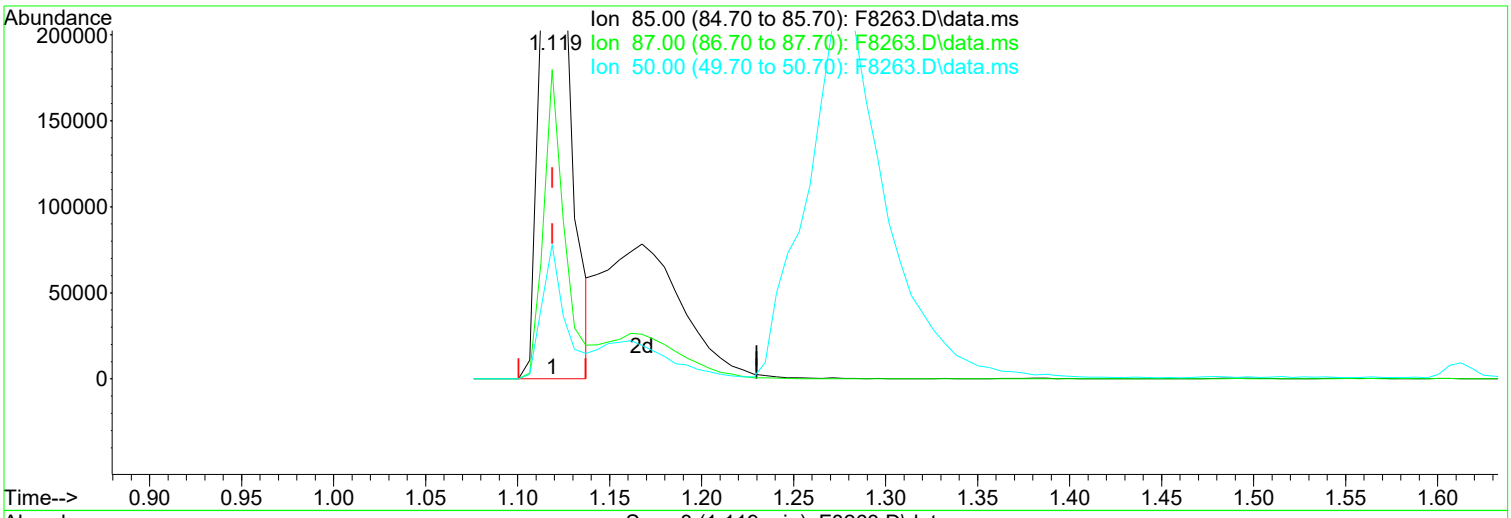
Poor integration.

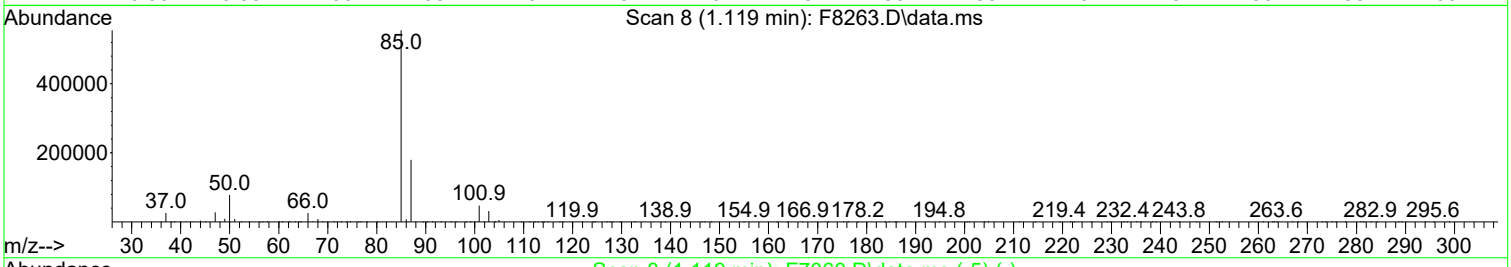
02/21/24

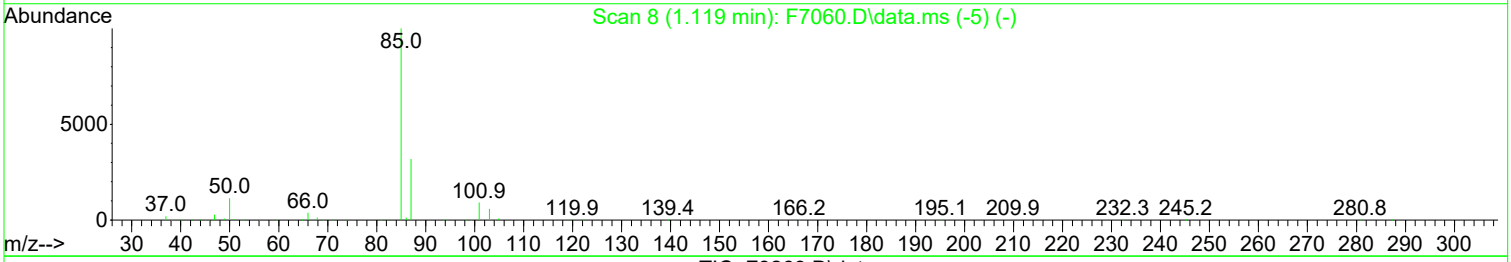
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8263.D
Acq On : 20 Feb 2024 07:32 pm
Operator : F.NAEGLER
Sample : 150 PPB STD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 21 09:15:25 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8263.D\data.ms

(3) Dichlorodifluoromethane (P)

1.119min (-0.000) 82.42 ug/L

response 440495

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.80	32.37
50.00	11.40	14.04
0.00	0.00	0.00

Manual Integration:

Before

02/21/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8263.D
Acq On : 20 Feb 2024 07:32 pm
Operator : F.NAEGLER
Sample : 150 PPB STD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 21 09:15:25 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.350	168	471066	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.484	114	715639	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.934	117	686777	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	12.037	152	406713	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.216	113	873194	198.30	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 396.60%#				
48) surr1,1,2-dichloroetha...	5.770	65	1085075	195.32	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 390.64%#				
65) SURR3,Toluene-d8	8.367	98	3544578	203.83	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 407.66%#				
70) SURR2,BFB	11.044	95	1372157	208.80	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 417.60%#				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.155	51	532878	130.630	ug/L		94
3) Dichlorodifluoromethane	1.119	85	677814m	126.827	ug/L		
4) Chloromethane	1.277	50	635120	137.881	ug/L		95
5) Vinyl Chloride	1.326	62	701928	142.016	ug/L		98
6) Bromomethane	1.546	94	665019	245.295	ug/L		97
7) Chloroethane	1.613	64	796208	231.835	ug/L		98
8) Freon 21	1.771	67	1387836	193.081	ug/L		98
9) Trichlorofluoromethane	1.808	101	1093416	184.305	ug/L		99
10) Diethyl Ether	2.052	59	516084	139.441	ug/L		94
11) Freon 123a	2.058	67	626786	148.341	ug/L		86
12) Freon 123	2.112	83	688298	133.634	ug/L		95
13) Acrolein	2.167	56	714817	708.056	ug/L		97
14) 1,1-Diclethene	2.234	96	506249	146.550	ug/L		92
15) Freon 113	2.234	101	493089	145.808	ug/L		99
16) Acetone	2.314	43	387713	171.625	ug/L		97
17) 2-Propanol	2.460	45	1478377	3876.726	ug/L		98
18) Iodomethane	2.375	142	838426	151.646	ug/L		96
19) Carbon Disulfide	2.423	76	1557719	167.911	ug/L		100
20) Acetonitrile	2.576	41	896223m	978.019	ug/L		
21) Allyl Chloride	2.576	76	336310	169.007	ug/L	#	80
22) Methyl Acetate	2.606	43	984557	185.320	ug/L		94
23) Methylene Chloride	2.698	84	623211	153.074	ug/L		89
24) TBA	2.862	59	2597844	3876.354	ug/L		98
25) Acrylonitrile	2.984	53	1983523	956.618	ug/L		98
26) Methyl-t-Butyl Ether	2.990	73	2317264	177.903	ug/L		98
27) trans-1,2-Dichloroethene	2.978	96	632370	167.075	ug/L		96
28) 1,1-Diclethane	3.490	63	1109100	169.539	ug/L		99
29) Vinyl Acetate	3.588	86	93785	153.006	ug/L	#	41
30) DIPE	3.600	45	2073989	189.421	ug/L		96
31) 2-Chloro-1,3-Butadiene	3.600	53	1021024	174.923	ug/L		99
32) ETBE	4.124	59	1989523	174.739	ug/L		98
33) 2,2-Dichloropropane	4.313	77	835687	172.462	ug/L		96
34) cis-1,2-Dichloroethene	4.332	96	700219	157.393	ug/L		93
35) 2-Butanone	4.411	43	527543	186.401	ug/L		93
36) Propionitrile	4.527	54	811280	916.570	ug/L		99
37) Bromochloromethane	4.734	130	469987	158.708	ug/L	#	87
38) Methacrylonitrile	4.777	67	398468	172.086	ug/L		87
39) Tetrahydrofuran	4.831	42	362519	203.705	ug/L		92
40) Chloroform	4.917	83	1128769	163.875	ug/L		94

1st FNJ 02/21/24
2nd WR 02/21/24

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8263.D
Acq On : 20 Feb 2024 07:32 pm
Operator : F.NAEGLER
Sample : 150 PPB STD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 21 09:15:25 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1,1,1-Trichloroethane	5.191	97	954331	174.159 ug/L	96
42) TAME	6.069	73	2001259	179.890 ug/L	96
44) Cyclohexane	5.258	41	577450	183.092 ug/L	91
46) Carbontetrachloride	5.465	117	744726	156.707 ug/L	94
47) 1,1-Dichloropropene	5.490	75	777256	148.664 ug/L	96
49) Benzene	5.825	78	2390628	153.448 ug/L	97
50) 1,2-Dichloroethane	5.892	62	972108	160.587 ug/L	95
51) Iso-Butyl Alcohol	5.935	43	1061817	3929.951 ug/L	96
52) n-Heptane	6.301	43	690497	174.943 ug/L	91
53) 1-Butanol	6.923	56	1765479	10146.387 ug/L	93
54) Trichloroethene	6.807	130	658550	156.420 ug/L	99
55) Methylcyclohexane	7.032	55	750746	162.858 ug/L	98
56) 1,2-Diclpropane	7.118	63	662455	171.752 ug/L	99
57) Dibromomethane	7.270	93	481433	171.440 ug/L	96
58) 1,4-Dioxane	7.355	88	326811	3357.992 ug/L	96
59) Methyl Methacrylate	7.355	69	650153	184.017 ug/L	84
60) Bromodichloromethane	7.508	83	915101	178.926 ug/L	98
61) 2-Nitropropane	7.831	41	523685	441.467 ug/L	98
62) 2-Chloroethylvinyl Ether	7.941	63	462919	196.658 ug/L	97
63) cis-1,3-Dichloropropene	8.075	75	1101515	181.711 ug/L	99
64) 4-Methyl-2-pentanone	8.300	43	1077684	203.320 ug/L	95
66) Toluene	8.447	91	2818730	164.558 ug/L	97
67) trans-1,3-Dichloropropene	8.751	75	1049118	192.836 ug/L	98
68) Ethyl Methacrylate	8.892	69	1172360	191.171 ug/L	91
69) 1,1,2-Trichloroethane	8.953	97	695669	164.734 ug/L	94
72) Tetrachloroethene	9.062	164	530140	154.451 ug/L	98
73) 2-Hexanone	9.257	43	824395	201.272 ug/L	94
74) 1,3-Dichloropropane	9.123	76	1151059	158.401 ug/L	92
75) Dibromochloromethane	9.361	129	785764	181.692 ug/L	98
76) N-Butyl Acetate	9.410	43	1643582	226.034 ug/L	93
77) 1,2-Dibromoethane	9.459	107	757173	170.102 ug/L	96
78) 3-Chlorobenzotrifluoride	9.983	180	1011625	157.665 ug/L	97
79) Chlorobenzene	9.965	112	1899410	158.997 ug/L	99
80) 4-Chlorobenzotrifluoride	10.044	180	884232	153.176 ug/L	97
81) 1,1,1,2-Tetrachloroethane	10.056	131	665740	168.204 ug/L	96
82) Ethylbenzene	10.087	106	964490	158.409 ug/L	96
83) (m+p)Xylene	10.202	106	2519586	329.510 ug/L	99
84) o-Xylene	10.568	106	1248765	166.075 ug/L	97
85) Styrene	10.586	104	2256700	171.213 ug/L	99
86) Bromoform	10.751	173	587047	193.950 ug/L	100
87) 2-Chlorobenzotrifluoride	10.830	180	1037778	163.377 ug/L	97
88) Isopropylbenzene	10.910	105	3181392	165.995 ug/L	99
89) Cyclohexanone	11.007	55	5486129	4755.623 ug/L	91
90) trans-1,4-Dichloro-2-B...	11.251	53	372333	204.401 ug/L	99
92) 1,1,2,2-Tetrachloroethane	11.202	83	1158312	164.386 ug/L	99
93) Bromobenzene	11.166	156	906704	154.312 ug/L	98
94) 1,2,3-Trichloropropane	11.227	110	379532	152.172 ug/L	99
95) n-Propylbenzene	11.275	91	3871614	155.668 ug/L	99
96) 2-Chlorotoluene	11.342	91	2247350	146.717 ug/L	99
97) 3-Chlorotoluene	11.397	91	2332627	145.851 ug/L	97
98) 4-Chlorotoluene	11.440	91	2748609	157.029 ug/L	98
99) 1,3,5-Trimethylbenzene	11.434	105	2839597	154.947 ug/L	99
100) tert-Butylbenzene	11.708	119	2309168	149.156 ug/L	98
101) 1,2,4-Trimethylbenzene	11.751	105	2856072	153.607 ug/L	97
102) 3,4-Dichlorobenzotrifl...	11.818	214	854755	149.925 ug/L	99
103) sec-Butylbenzene	11.891	105	3408470	158.714 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8263.D
Acq On : 20 Feb 2024 07:32 pm
Operator : F.NAEGLER
Sample : 150 PPB STD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 21 09:15:25 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) p-Isopropyltoluene	12.019	119	2994133	154.819	ug/L	99
105) 1,3-Dclbenz	11.983	146	1652400	151.405	ug/L	96
106) 1,4-Dclbenz	12.056	146	1722150	153.481	ug/L	98
107) 2,4-Dichlorobenzotrifl...	12.111	214	779735	151.606	ug/L	99
108) 2,5-Dichlorobenzotrifl...	12.153	214	870538	149.312	ug/L	98
109) n-Butylbenzene	12.354	91	2734203	165.571	ug/L	97
110) 1,2-Dclbenz	12.360	146	1690601	155.932	ug/L	100
111) 1,2-Dibromo-3-chloropr...	13.001	157	312492	172.487	ug/L	95
112) Trielution Dichlorotol...	13.110	125	4326530	452.255	ug/L	97
113) 1,3,5-Trichlorobenzene	13.159	180	1240548	153.170	ug/L	99
114) Coelution Dichlorotoluene	13.440	125	3204144	305.404	ug/L	99
115) 1,2,4-Tcbenzene	13.647	180	1193451	149.434	ug/L	97
116) Hexachlorobt	13.781	225	472751	134.881	ug/L	100
117) Naphthalen	13.842	128	3960309	155.905	ug/L	99
118) 1,2,3-Tclbenzene	14.031	180	1187546	149.977	ug/L	99
119) 2,4,5-Trichlorotoluene	14.616	159	814484	137.880	ug/L	98
120) 2,3,6-Trichlorotoluene	14.701	159	783656	147.456	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8263.D
Acq On : 20 Feb 2024 07:32 pm
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Misc :
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Quant Time: Feb 21 09:15:25 2024
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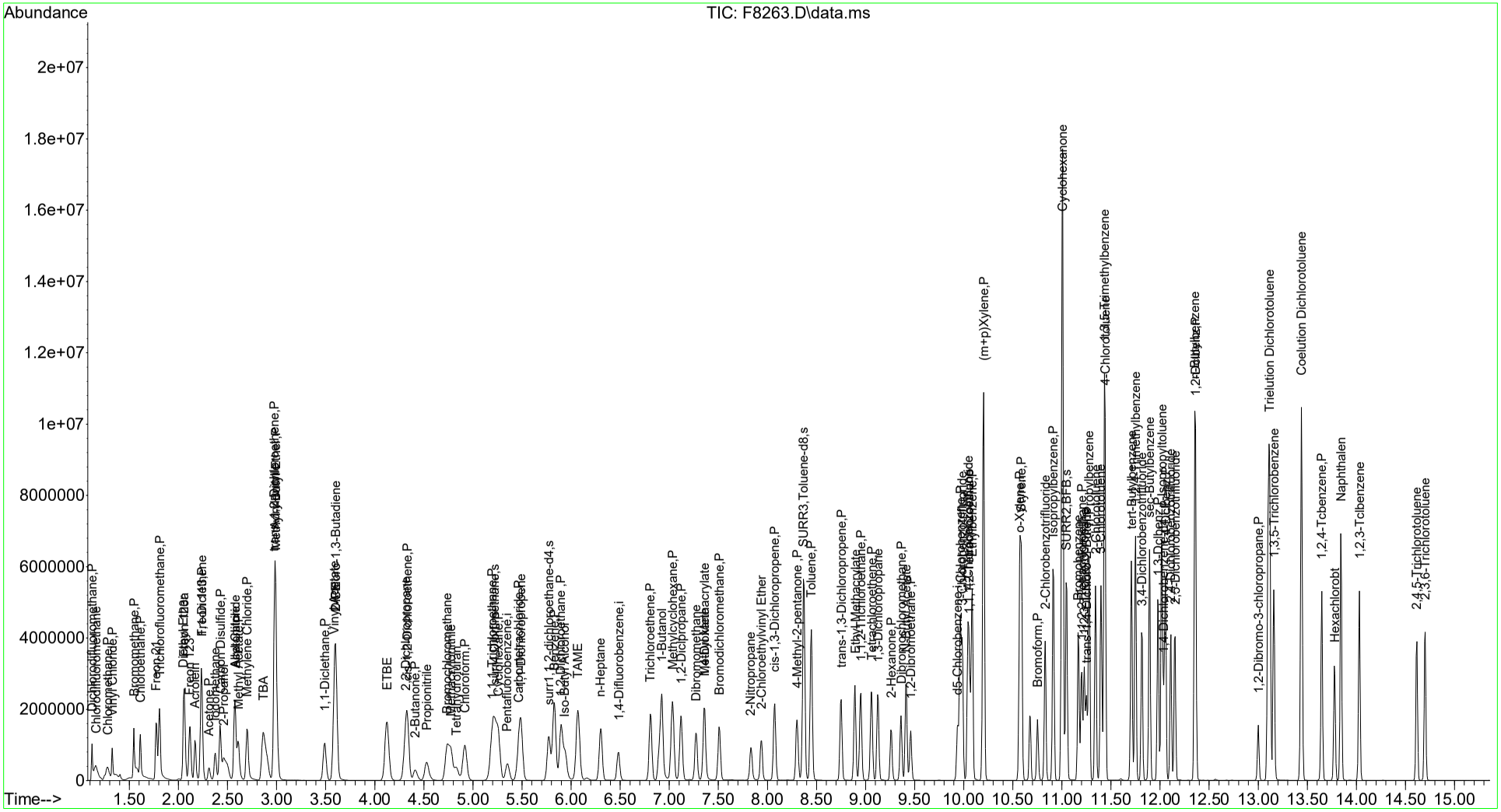
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration



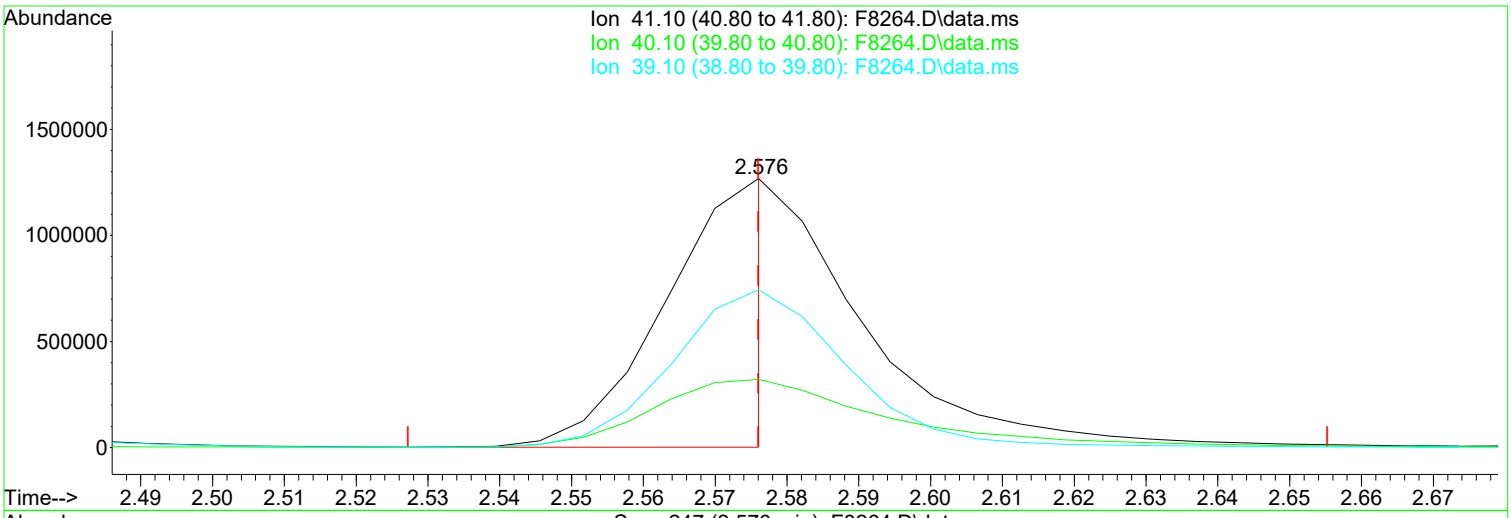
1st FJ 02/21/24
2nd 02/21/24

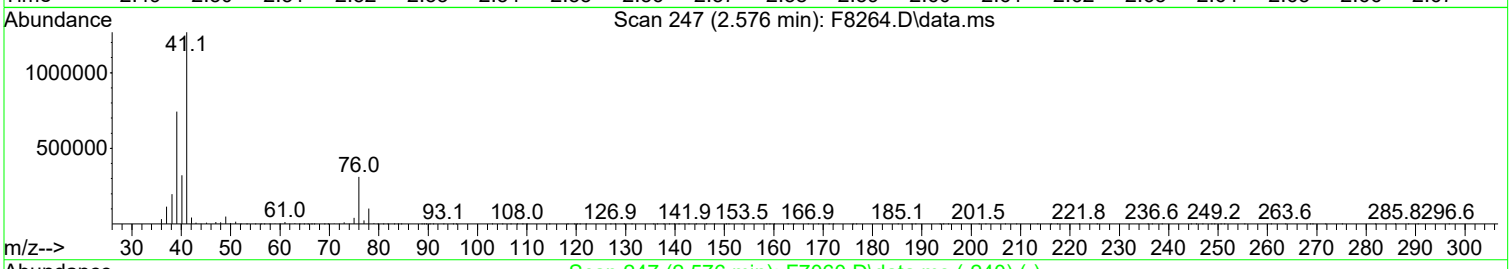
1st FN 02/21/24
2nd 02/21/24

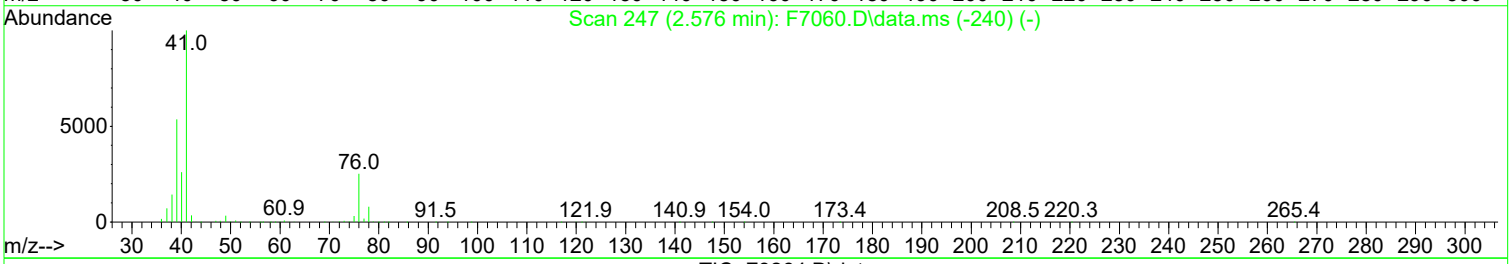
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8264.D
Acq On : 20 Feb 2024 07:54 pm
Operator : F.NAEGLER
Sample : 200 PPB STD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 21 09:17:38 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8264.D\data.ms

(20) Acetonitrile

2.576min (+ 0.000) 1329.72 ug/L m

response 1331072

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	26.20	25.37
39.10	53.50	58.61
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

02/21/24

1st FN 02/21/24
2nd 02/21/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8264.D
Acq On : 20 Feb 2024 07:54 pm
Operator : F.NAEGLER
Sample : 200 PPB STD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 21 09:17:38 2024
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Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
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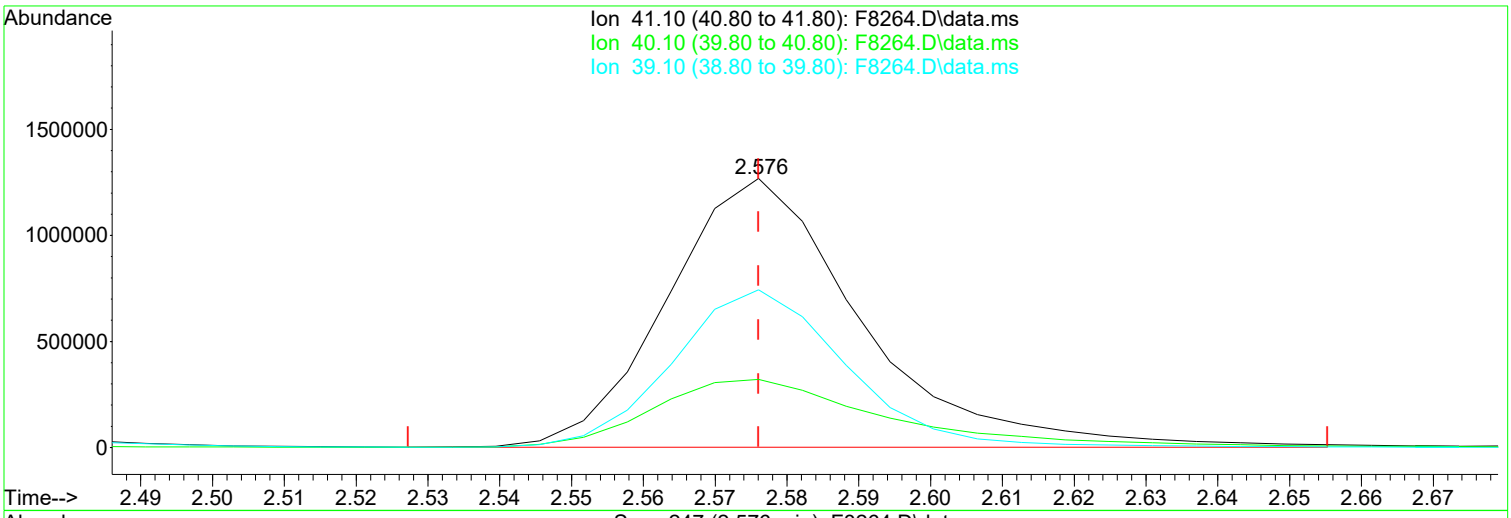

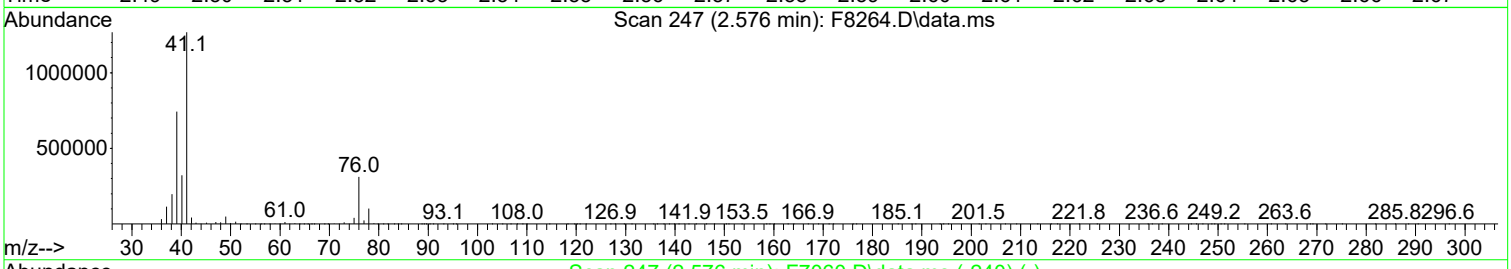

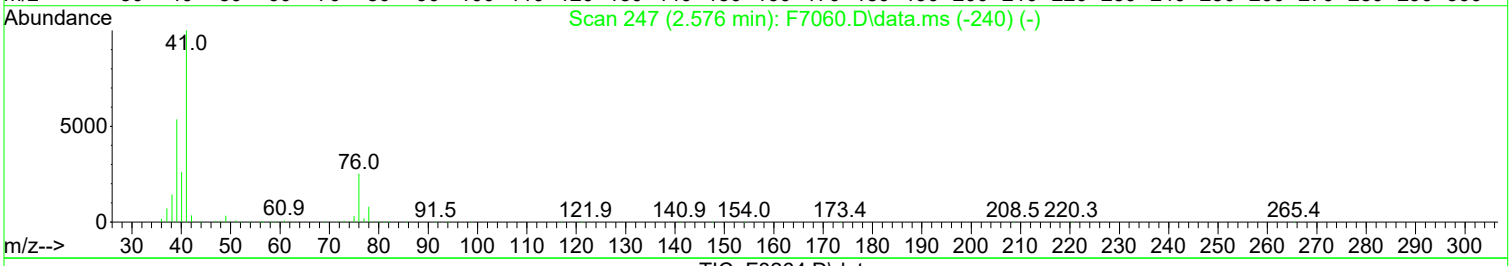

TIC: F8264.D\data.ms

(20) Acetonitrile

2.576min (+ 0.000) 2389.88 ug/L

response 2392303

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	26.20	25.37
39.10	53.50	58.61
0.00	0.00	0.00

Manual Integration:

Before

02/21/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
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Sample : 200 PPB STD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 21 09:17:38 2024
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Quant Title : MS#14 - 8260 WATERS 5mL Purge
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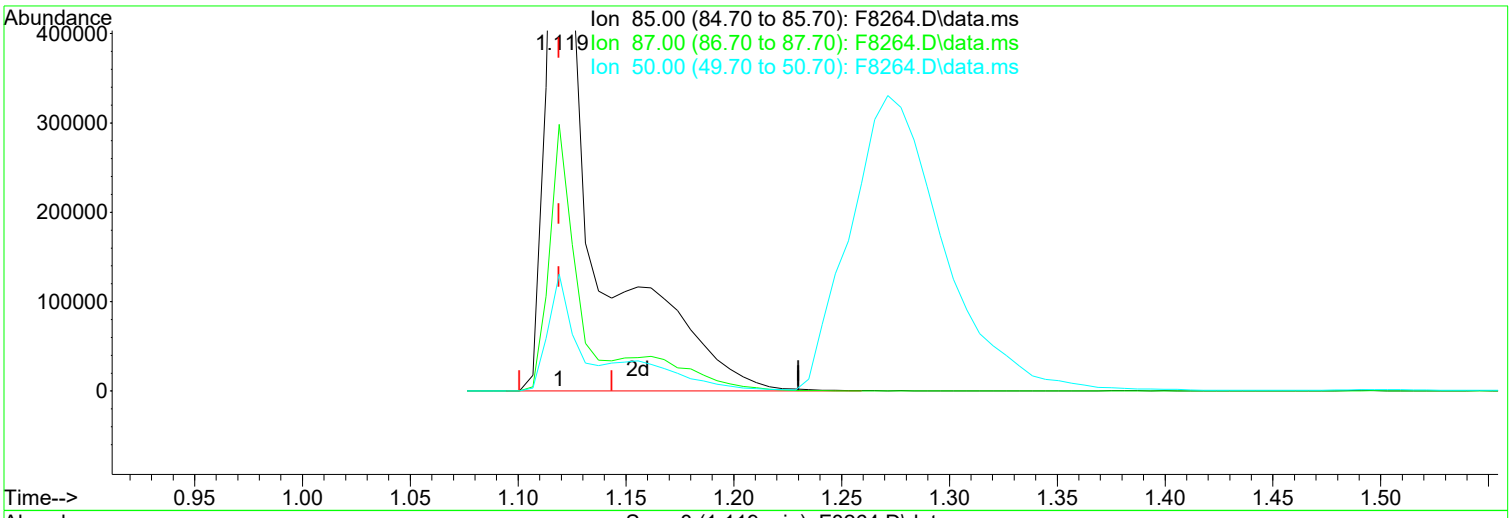
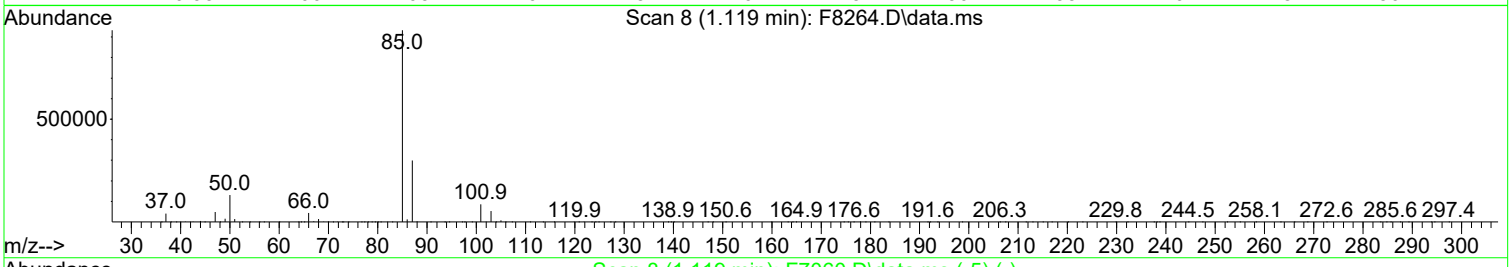
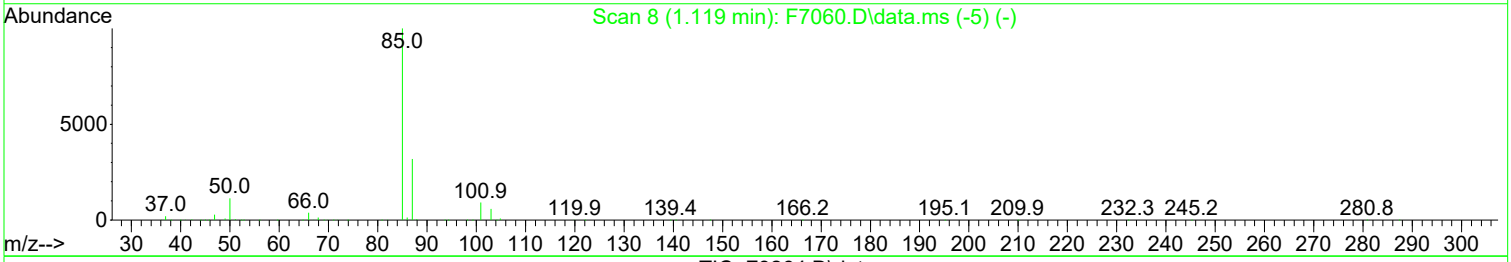






TIC: F8264.D\data.ms

(3) Dichlorodifluoromethane (P)

1.119min (+ 0.000) 183.04 ug/L m

response 1068612

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.80	32.00
50.00	11.40	14.03
0.00	0.00	0.00

Manual Integration:

After

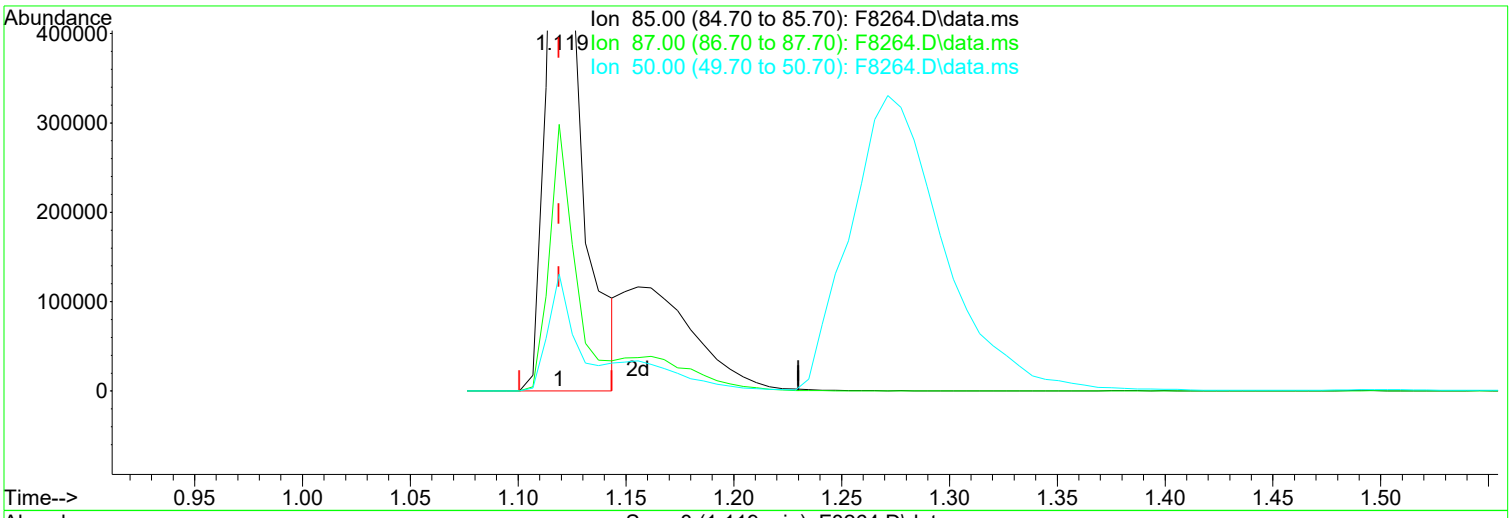
Poor integration.

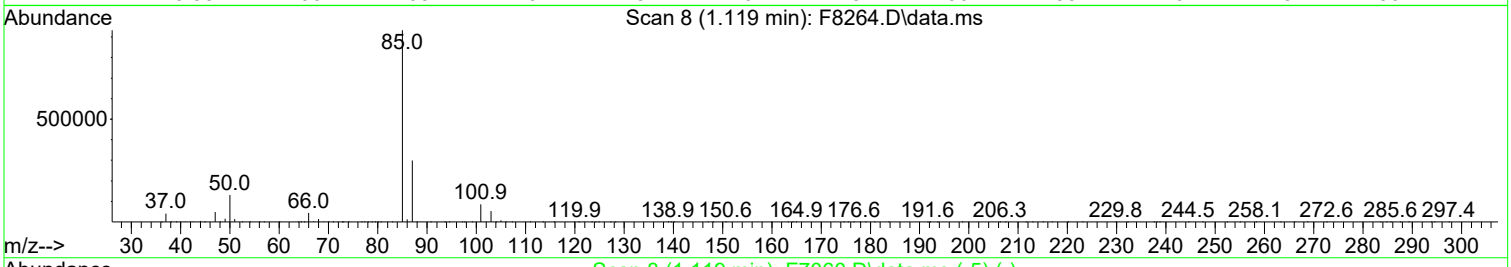
02/21/24

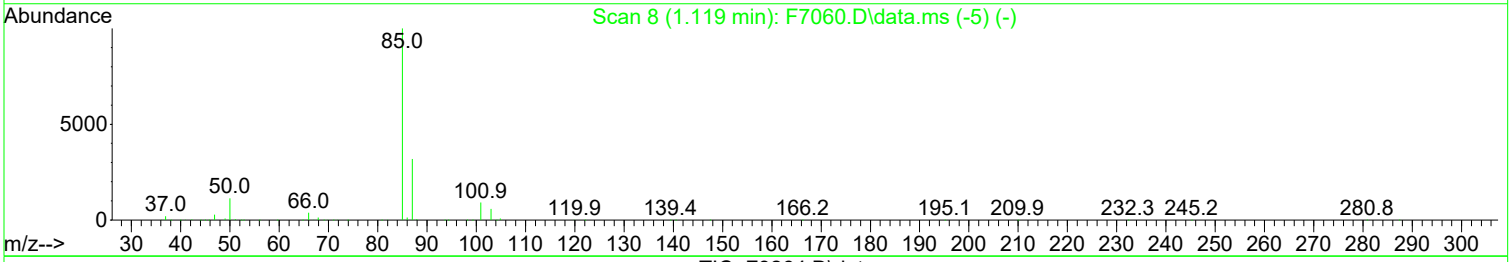
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8264.D
Acq On : 20 Feb 2024 07:54 pm
Operator : F.NAEGLER
Sample : 200 PPB STD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 21 09:17:38 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration







TIC: F8264.D\data.ms

(3) Dichlorodifluoromethane (P)

1.119min (+ 0.000) 135.53 ug/L

response 791234

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.80	32.00
50.00	11.40	14.03
0.00	0.00	0.00

Manual Integration:

Before

02/21/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
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Acq On : 20 Feb 2024 07:54 pm
Operator : F.NAEGLER
Sample : 200 PPB STD
Misc :
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Quant Time: Feb 21 09:17:38 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.356	168	514580	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.484	114	762087	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.934	117	717774	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	12.038	152	415748	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.222	113	244912	52.23	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 104.46%				
48) surr1,1,2-dichloroetha...	5.777	65	296067	50.05	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.10%				
65) SURR3,Toluene-d8	8.368	98	941322	50.83	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.66%				
70) SURR2,BFB	11.044	95	363720	51.97	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 103.94%				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.149	51	817673	183.495	ug/L		93
3) Dichlorodifluoromethane	1.119	85	1068612m	183.042	ug/L		
4) Chloromethane	1.271	50	983611	195.479	ug/L		97
5) Vinyl Chloride	1.326	62	1133425	209.925	ug/L		99
6) Bromomethane	1.546	94	1016611	343.272	ug/L		95
7) Chloroethane	1.619	64	1085616	289.373	ug/L		99
8) Freon 21	1.777	67	1948146	248.114	ug/L		98
9) Trichlorofluoromethane	1.814	101	1533810	236.675	ug/L		97
10) Diethyl Ether	2.052	59	938402	232.108	ug/L		95
11) Freon 123a	2.064	67	1178611	255.354	ug/L		94
12) Freon 123	2.119	83	1253858	222.853	ug/L		97
13) Acrolein	2.168	56	1109184	1005.785	ug/L		99
14) 1,1-Diclethene	2.241	96	784260	207.832	ug/L		97
15) Freon 113	2.241	101	745366	201.769	ug/L		99
16) Acetone	2.308	43	545904	221.215	ug/L		96
17) 2-Propanol	2.454	45	2203929	5290.618	ug/L		99
18) Iodomethane	2.375	142	1325412	219.456	ug/L		98
19) Carbon Disulfide	2.430	76	2404114	237.233	ug/L		100
20) Acetonitrile	2.576	41	1331072m	1329.724	ug/L		
21) Allyl Chloride	2.576	76	492515	226.576	ug/L	#	76
22) Methyl Acetate	2.607	43	1450067	249.860	ug/L		94
23) Methylene Chloride	2.704	84	914704	205.672	ug/L		93
24) TBA	2.856	59	3892762	5317.372	ug/L		97
25) Acrylonitrile	2.985	53	2922115	1290.112	ug/L		100
26) Methyl-t-Butyl Ether	2.991	73	3370564	236.886	ug/L		99
27) trans-1,2-Dichloroethene	2.985	96	941825	227.793	ug/L		98
28) 1,1-Diclethane	3.490	63	1611917	225.565	ug/L		98
29) Vinyl Acetate	3.588	86	155813	232.706	ug/L	#	44
30) DIPE	3.594	45	3057594	255.641	ug/L		88
31) 2-Chloro-1,3-Butadiene	3.606	53	1545622	242.406	ug/L		98
32) ETBE	4.118	59	2914093	234.301	ug/L		97
33) 2,2-Dichloropropane	4.314	77	1244341	235.081	ug/L		97
34) cis-1,2-Dichloroethene	4.332	96	1024764	210.865	ug/L		94
35) 2-Butanone	4.411	43	767103	248.126	ug/L		91
36) Propionitrile	4.527	54	1162018	1201.811	ug/L		98
37) Bromochloromethane	4.740	130	683623	211.328	ug/L	#	88
38) Methacrylonitrile	4.777	67	580688	229.575	ug/L		87
39) Tetrahydrofuran	4.826	42	507655	261.137	ug/L		92
40) Chloroform	4.917	83	1633867	217.147	ug/L		93

1st FNJ 02/21/24
2nd WR 02/21/24

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8264.D
Acq On : 20 Feb 2024 07:54 pm
Operator : F.NAEGLER
Sample : 200 PPB STD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 21 09:17:38 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1,1,1-Trichloroethane	5.197	97	1410809	235.691 ug/L	95
42) TAME	6.069	73	2946292	242.442 ug/L	97
44) Cyclohexane	5.258	41	854775	254.504 ug/L	96
46) Carbontetrachloride	5.472	117	1131946	223.670 ug/L	94
47) 1,1-Dichloropropene	5.490	75	1150555	206.652 ug/L	98
49) Benzene	5.832	78	3526436	212.556 ug/L	98
50) 1,2-Dichloroethane	5.899	62	1414220	219.383 ug/L	94
51) Iso-Butyl Alcohol	5.917	43	1612028	5602.727 ug/L	97
52) n-Heptane	6.307	43	1004253	238.928 ug/L	93
53) 1-Butanol	6.917	56	2711718	14634.666 ug/L	94
54) Trichloroethene	6.807	130	961222	214.396 ug/L	98
55) Methylcyclohexane	7.032	55	1115427	227.220 ug/L	98
56) 1,2-Diclpropane	7.124	63	961703	234.141 ug/L	100
57) Dibromomethane	7.270	93	691885	231.366 ug/L	98
58) 1,4-Dioxane	7.349	88	459188	4430.604 ug/L	91
59) Methyl Methacrylate	7.356	69	954233	253.622 ug/L	85
60) Bromodichloromethane	7.508	83	1334036	244.941 ug/L	98
61) 2-Nitropropane	7.831	41	797265	631.132 ug/L	95
62) 2-Chloroethylvinyl Ether	7.941	63	687021	274.073 ug/L	96
63) cis-1,3-Dichloropropene	8.075	75	1624601	251.667 ug/L	99
64) 4-Methyl-2-pentanone	8.301	43	1604138	284.197 ug/L	96
66) Toluene	8.447	91	4137241	226.811 ug/L	96
67) trans-1,3-Dichloropropene	8.752	75	1560275	269.311 ug/L	99
68) Ethyl Methacrylate	8.892	69	1714940	262.602 ug/L	91
69) 1,1,2-Trichloroethane	8.953	97	992701	220.744 ug/L	95
72) Tetrachloroethene	9.063	164	776387	216.425 ug/L	97
73) 2-Hexanone	9.258	43	1213411	283.456 ug/L	93
74) 1,3-Dichloropropane	9.124	76	1664642	219.184 ug/L	93
75) Dibromochloromethane	9.361	129	1158054	256.212 ug/L	98
76) N-Butyl Acetate	9.410	43	2402885	316.187 ug/L	93
77) 1,2-Dibromoethane	9.459	107	1097139	235.833 ug/L	99
78) 3-Chlorobenzotrifluoride	9.989	180	1511588	225.412 ug/L	95
79) Chlorobenzene	9.965	112	2775874	222.330 ug/L	100
80) 4-Chlorobenzotrifluoride	10.044	180	1330118	220.467 ug/L	95
81) 1,1,1,2-Tetrachloroethane	10.056	131	995330	240.617 ug/L	96
82) Ethylbenzene	10.087	106	1405874	220.931 ug/L	97
83) (m+p)Xylene	10.203	106	3710215	464.266 ug/L	99
84) o-Xylene	10.568	106	1818695	231.426 ug/L	97
85) Styrene	10.587	104	3309286	240.229 ug/L	98
86) Bromoform	10.751	173	879591	278.051 ug/L	100
87) 2-Chlorobenzotrifluoride	10.831	180	1546711	232.982 ug/L	96
88) Isopropylbenzene	10.916	105	4643062	231.798 ug/L	98
89) Cyclohexanone	11.007	55	7464559	6191.182 ug/L	90
90) trans-1,4-Dichloro-2-B...	11.251	53	536724	281.923 ug/L	94
92) 1,1,2,2-Tetrachloroethane	11.202	83	1659202	230.354 ug/L	100
93) Bromobenzene	11.166	156	1291540	215.031 ug/L	99
94) 1,2,3-Trichloropropane	11.227	110	537429	210.798 ug/L	97
95) n-Propylbenzene	11.276	91	5595708	220.100 ug/L	98
96) 2-Chlorotoluene	11.343	91	3225033	205.969 ug/L	99
97) 3-Chlorotoluene	11.397	91	3409520	208.552 ug/L	97
98) 4-Chlorotoluene	11.440	91	3967246	221.724 ug/L	98
99) 1,3,5-Trimethylbenzene	11.434	105	4089459	218.298 ug/L	99
100) tert-Butylbenzene	11.708	119	3318913	209.720 ug/L	98
101) 1,2,4-Trimethylbenzene	11.751	105	4097955	215.610 ug/L	99
102) 3,4-Dichlorobenzotrifl...	11.818	214	1229406	210.952 ug/L	99
103) sec-Butylbenzene	11.891	105	4917896	224.023 ug/L	99

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QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration

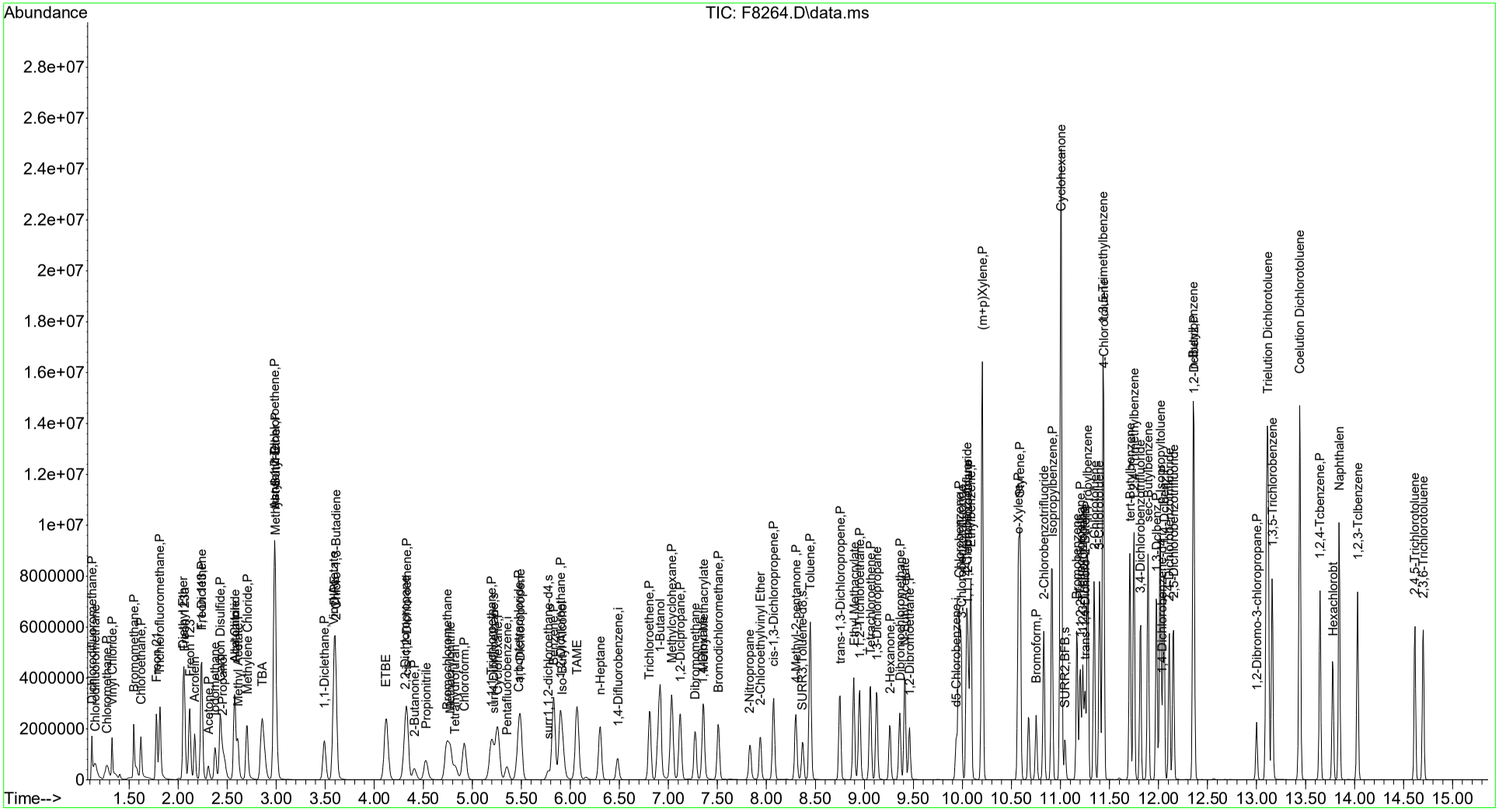
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) p-Isopropyltoluene	12.019	119	4291027	217.056	ug/L	99
105) 1,3-Dclbenz	11.983	146	2337170	209.495	ug/L	95
106) 1,4-Dclbenz	12.056	146	2396609	208.948	ug/L	99
107) 2,4-Dichlorobenzotrifl...	12.111	214	1125624	214.102	ug/L	97
108) 2,5-Dichlorobenzotrifl...	12.153	214	1268827	212.896	ug/L	98
109) n-Butylbenzene	12.355	91	3938983	233.344	ug/L	97
110) 1,2-Dclbenz	12.361	146	2402557	216.784	ug/L	99
111) 1,2-Dibromo-3-chloropr...	13.001	157	461539	249.221	ug/L	97
112) Trielution Dichlorotol...	13.111	125	6281134	642.303	ug/L	99
113) 1,3,5-Trichlorobenzene	13.159	180	1792217	216.475	ug/L	99
114) Coelution Dichlorotoluene	13.440	125	4618907	430.684	ug/L	97
115) 1,2,4-Tcbenzene	13.647	180	1677255	205.447	ug/L	99
116) Hexachlorobt	13.781	225	683588	190.796	ug/L	98
117) Naphthalen	13.842	128	5624730	216.616	ug/L	99
118) 1,2,3-Tclbenzene	14.031	180	1667968	206.072	ug/L	99
119) 2,4,5-Trichlorotoluene	14.616	159	1192813	197.537	ug/L	99
120) 2,3,6-Trichlorotoluene	14.702	159	1120276	206.215	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8264.D
Acq On : 20 Feb 2024 07:54 pm
Operator : F.NAEGLER
Sample : 200 PPB STD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 21 09:17:38 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Nov 21 14:41:41 2023
Response via : Initial Calibration



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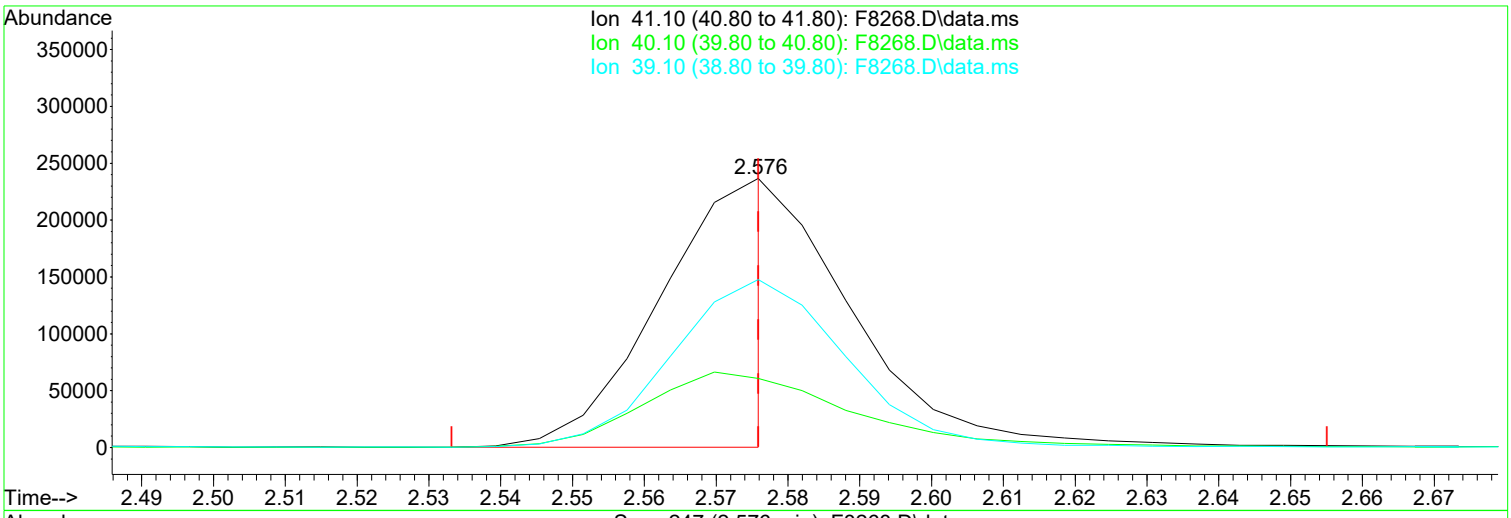
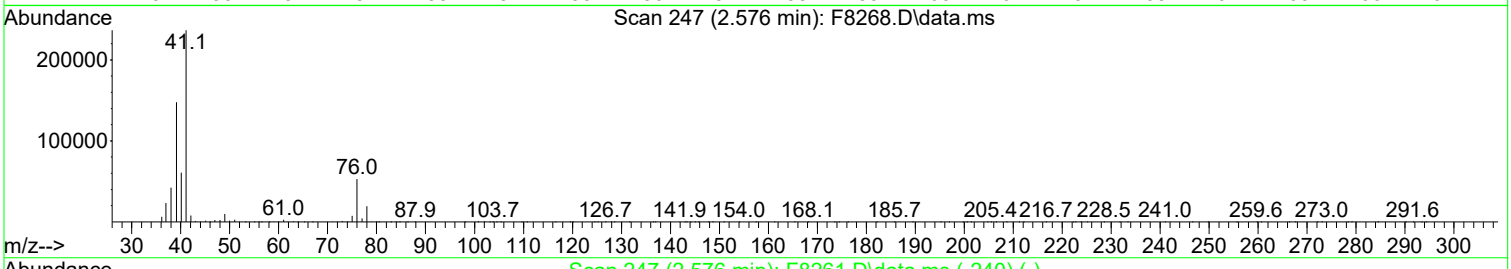
1st FJ 02/21/24
2nd 02/21/24

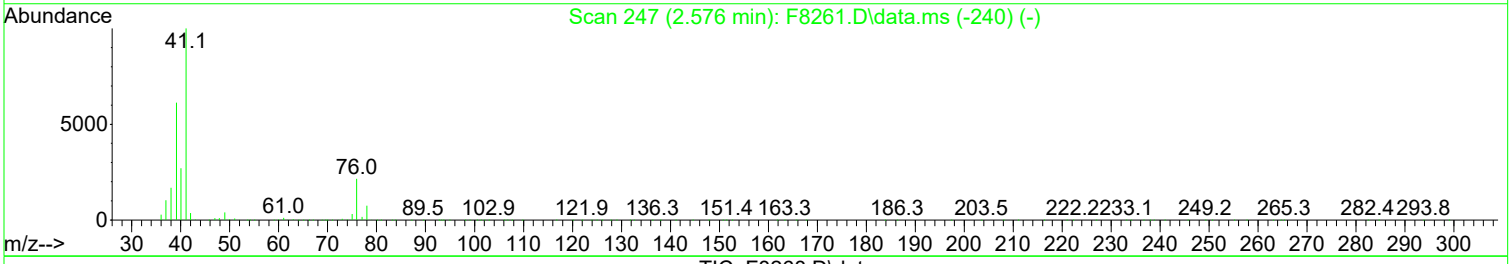
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8268.D
Acq On : 20 Feb 2024 09:23 pm
Operator : F.NAEGLER
Sample : 50 PPB ICV
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 21 09:56:50 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8268.D\data.ms

(20) Acetonitrile

2.576min (-0.000) 262.84 ug/L m

response 261654

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	27.60	25.64
39.10	61.30	62.42
0.00	0.00	0.00

Manual Integration:

After

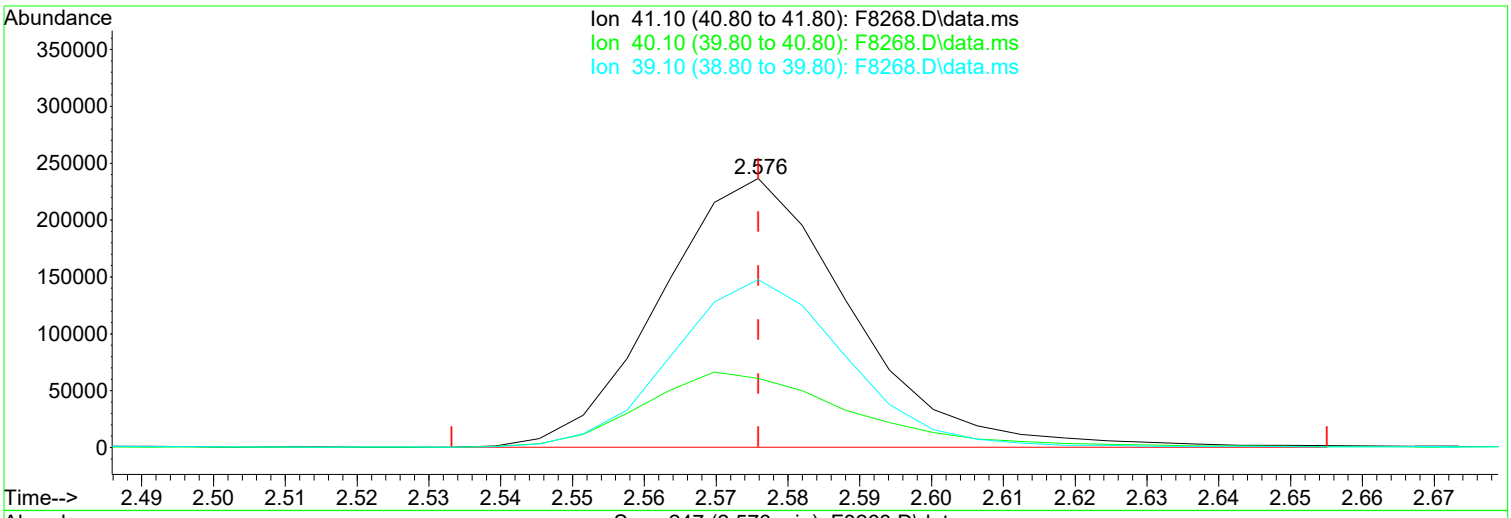
Poor integration.

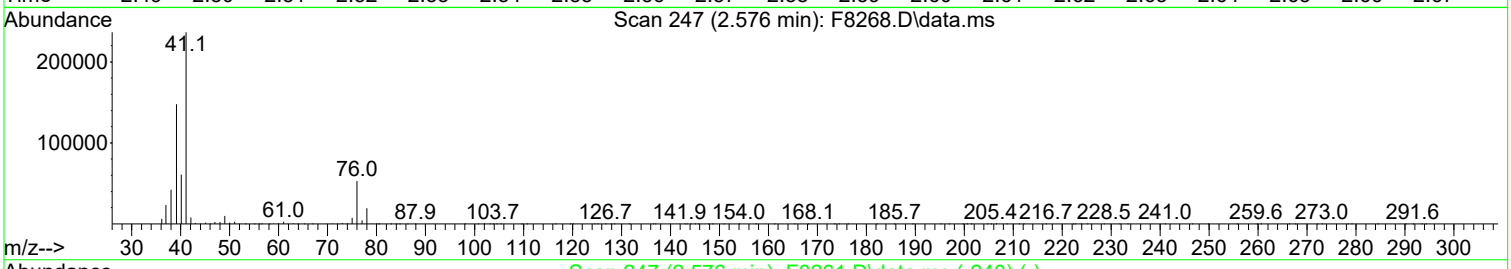
02/21/24

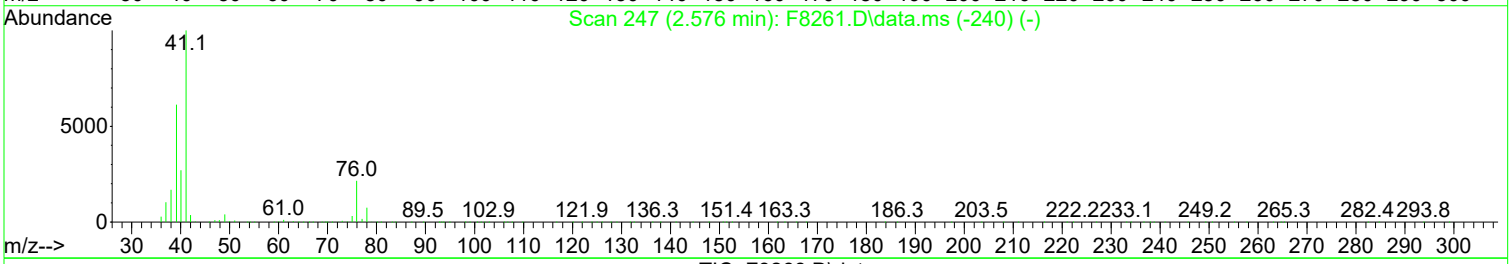
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8268.D
Acq On : 20 Feb 2024 09:23 pm
Operator : F.NAEGLER
Sample : 50 PPB ICV
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 21 09:56:50 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8268.D\data.ms

(20) Acetonitrile

2.576min (-0.000) 439.75 ug/L

response 437767

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	27.60	25.64
39.10	61.30	62.42
0.00	0.00	0.00

Manual Integration:

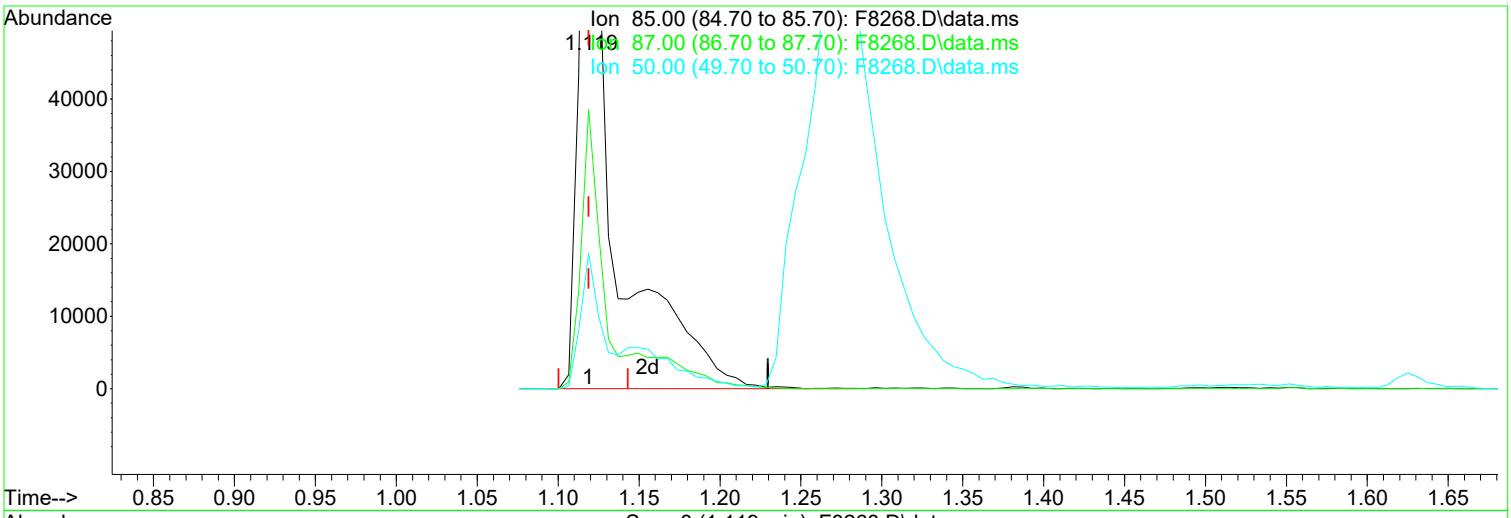
Before

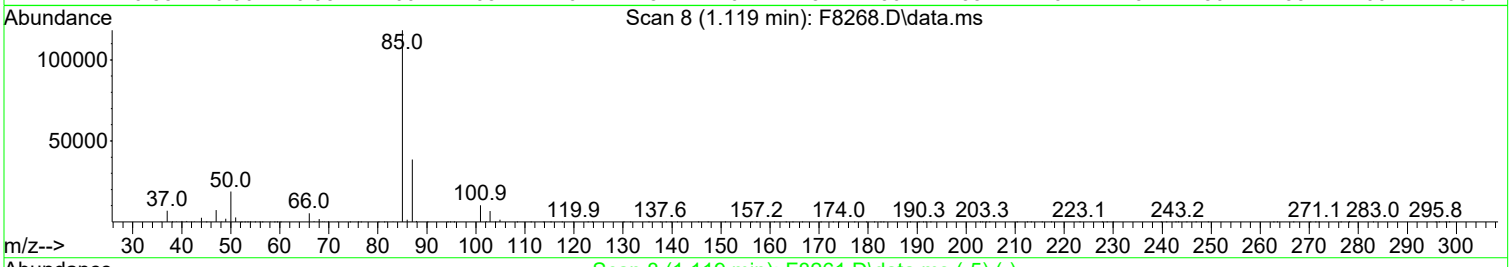
02/21/24

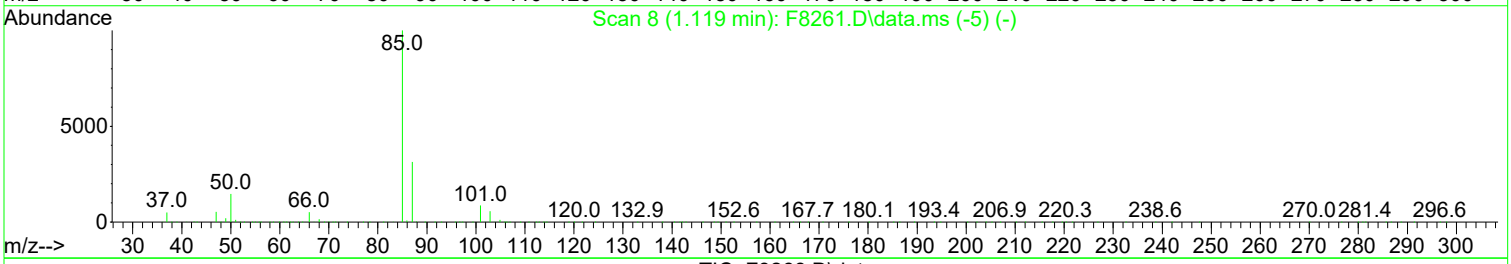
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8268.D
Acq On : 20 Feb 2024 09:23 pm
Operator : F.NAEGLER
Sample : 50 PPB ICV
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 21 09:56:50 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8268.D\data.ms

(3) Dichlorodifluoromethane (P)

1.119min (-0.000) 32.31 ug/L m

response 132819

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.30	32.57
50.00	14.60	15.81
0.00	0.00	0.00

Manual Integration:

After

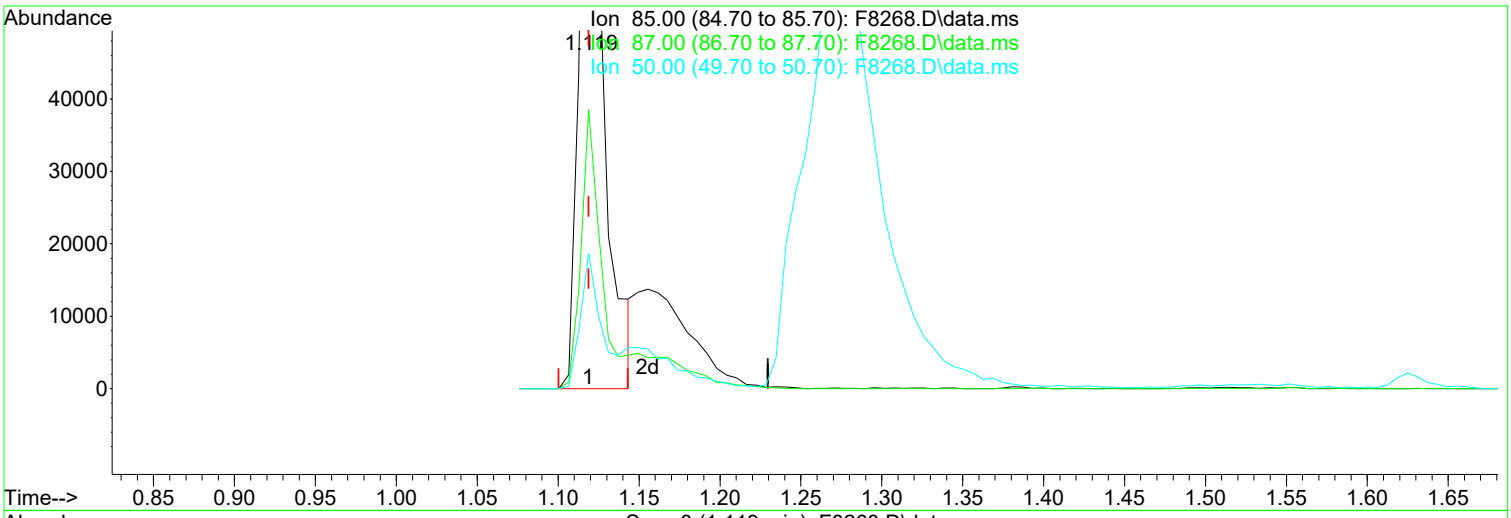
Poor integration.

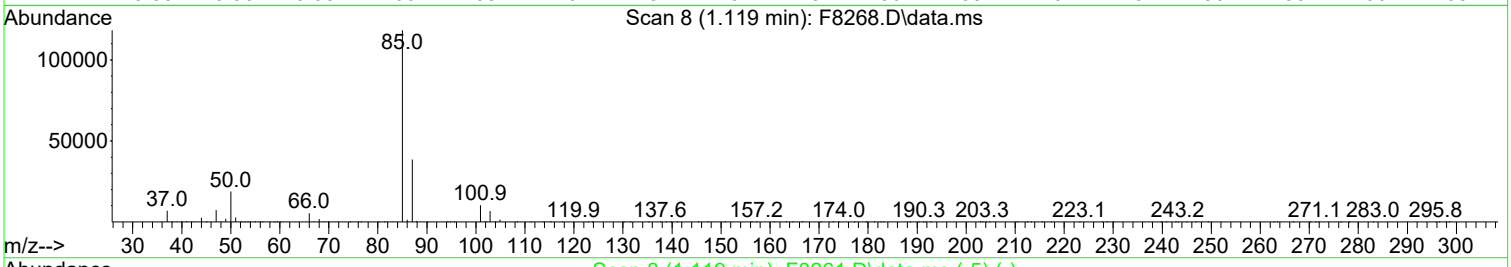
02/21/24

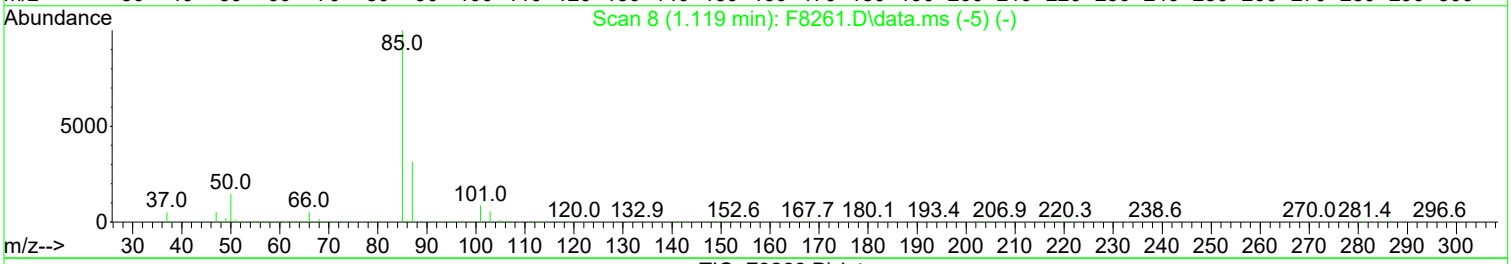
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8268.D
Acq On : 20 Feb 2024 09:23 pm
Operator : F.NAEGLER
Sample : 50 PPB ICV
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 21 09:56:50 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8268.D\data.ms

(3) Dichlorodifluoromethane (P)

1.119min (-0.000) 24.27 ug/L

response 99787

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.30	32.57
50.00	14.60	15.81
0.00	0.00	0.00

Manual Integration:

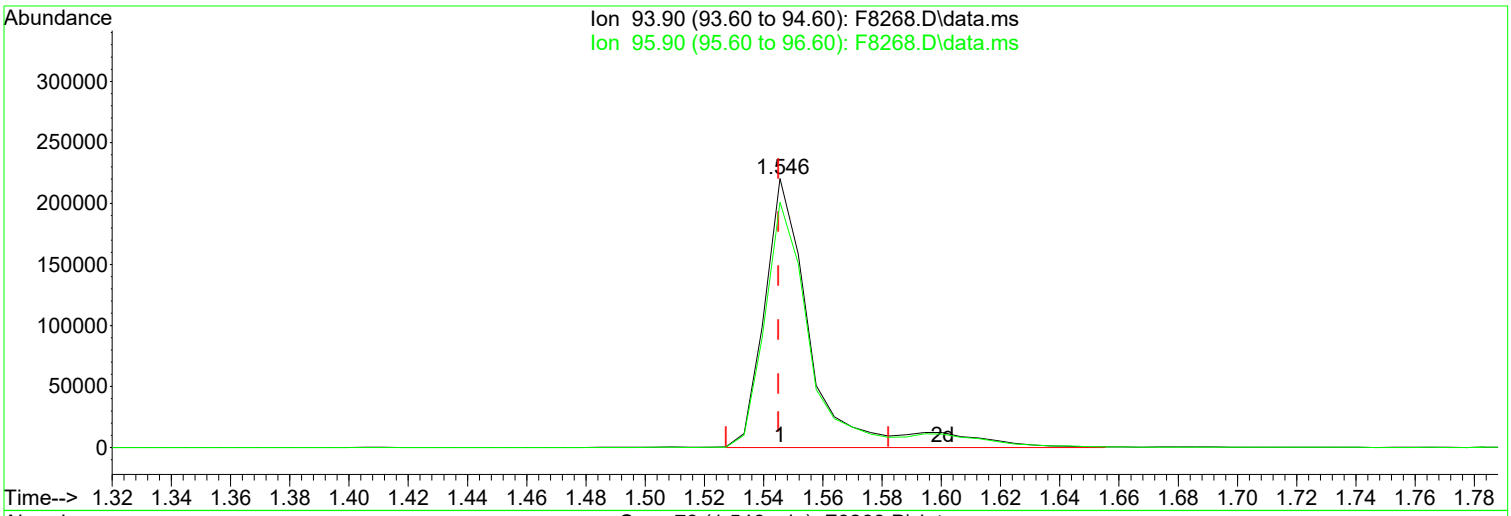
Before

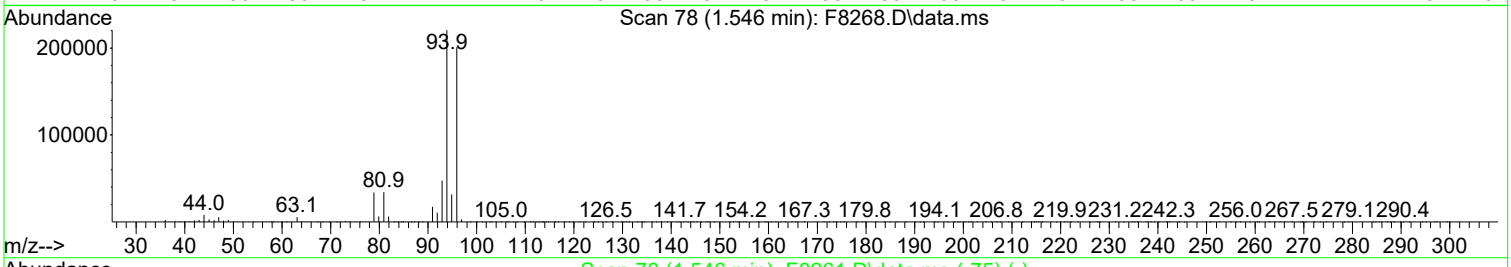
02/21/24

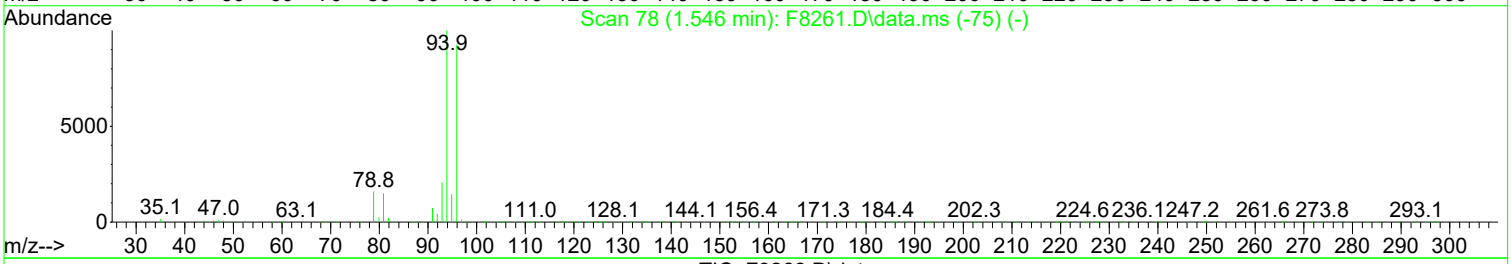
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8268.D
Acq On : 20 Feb 2024 09:23 pm
Operator : F.NAEGLER
Sample : 50 PPB ICV
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 21 09:56:50 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8268.D\data.ms

(6) Bromomethane (P)

1.546min (+ 0.001) 49.04 ug/L m

response 245429

Ion	Exp%	Act%
93.90	100.00	100.00
95.90	92.30	91.20
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

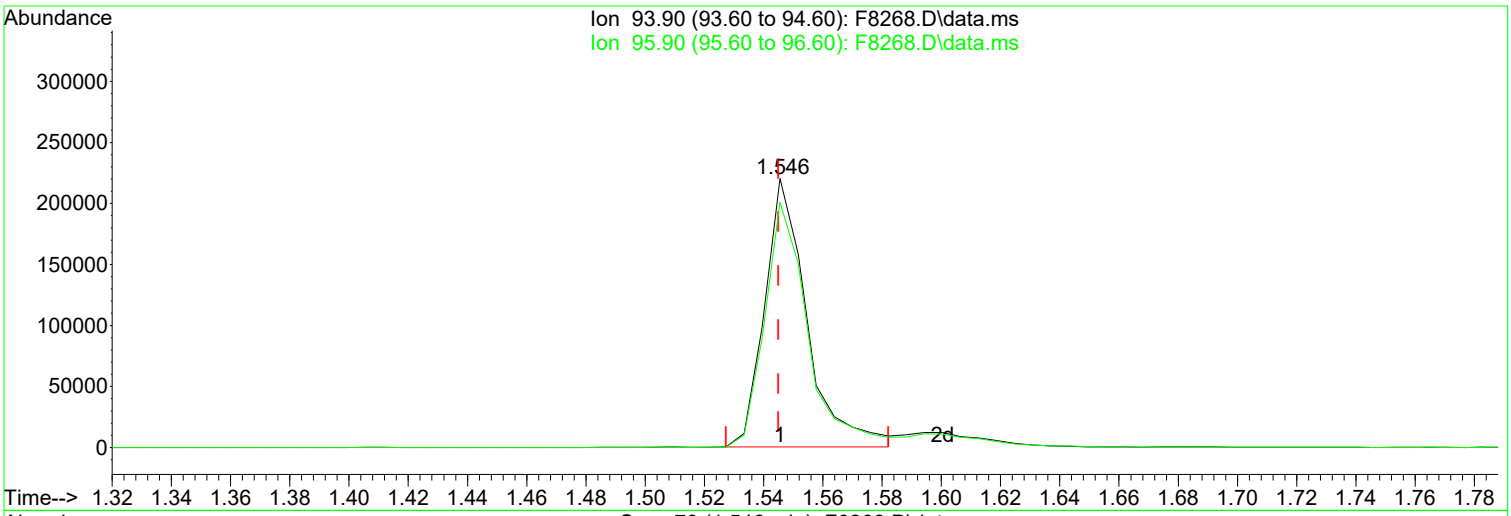
Poor integration.

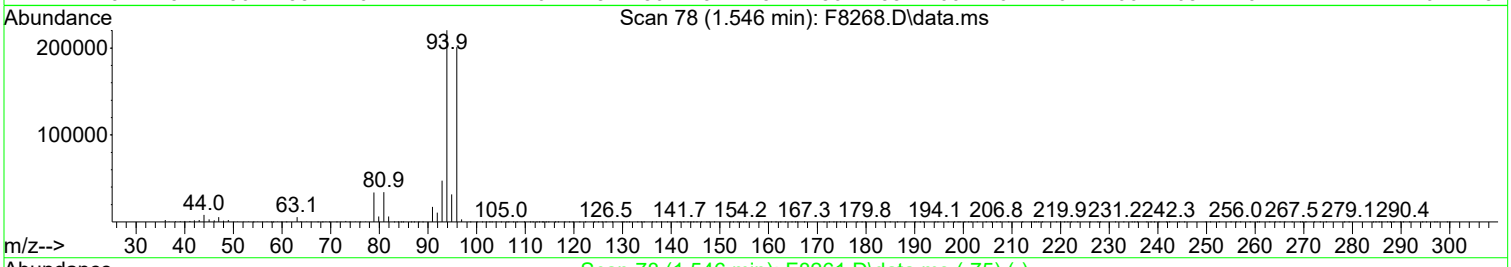
02/21/24

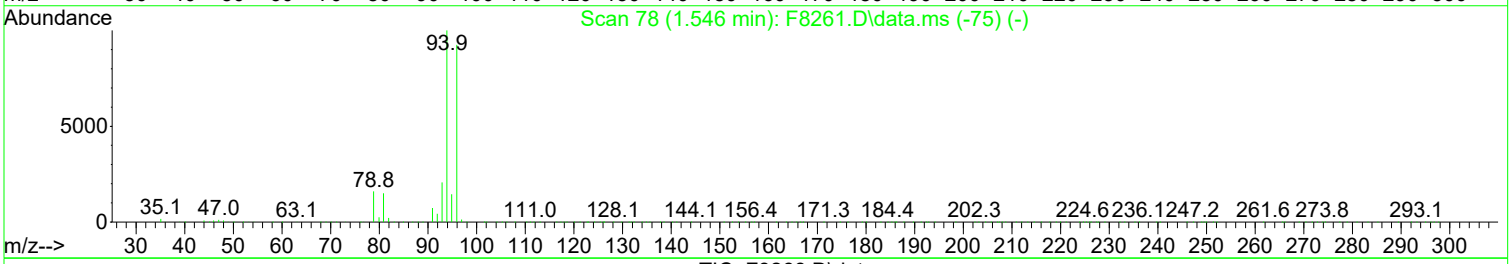
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8268.D
Acq On : 20 Feb 2024 09:23 pm
Operator : F.NAEGLER
Sample : 50 PPB ICV
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 21 09:56:50 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration







TIC: F8268.D\data.ms

(6) Bromomethane (P)

1.546min (+ 0.001) 42.61 ug/L

response 219183

Ion	Exp%	Act%
93.90	100.00	100.00
95.90	92.30	91.20
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

02/21/24

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8268.D
Acq On : 20 Feb 2024 09:23 pm
Operator : F.NAEGLER
Sample : 50 PPB ICV
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 21 09:56:50 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	i	Pentafluorobenzene	50.000	50.000	0.0	104	0.00
2		Chlorodifluoromethane	50.000	54.393	-8.8	110	0.00
3	P	Dichlorodifluoromethane	50.000	32.310	35.4#	64	0.00
4	P	Chloromethane	50.000	47.528	4.9	94	0.00
5	P	Vinyl Chloride	50.000	41.303	17.4	84	0.00
6	P	Bromomethane	50.000	49.038	1.9	102	0.00
7	P	Chloroethane	50.000	38.312	23.4#	78	0.00
8		Freon 21	50.000	43.149	13.7	87	0.00
9	P	Trichlorofluoromethane	50.000	48.068	3.9	100	0.00
10		Diethyl Ether	50.000	50.371	-0.7	103	0.00
11		Freon 123a	50.000	49.446	1.1	93	0.00
12		Freon 123	50.000	49.839	0.3	112	0.00
13		Acrolein	250.000	79.999	68.0#	34	0.00
14		1,1-Diclethene	50.000	45.853	8.3	97	0.00
15	P	Freon 113	50.000	44.548	10.9	94	0.00
16	P	Acetone	50.000	42.701	14.6	89	0.00
17		2-Propanol	1000.000	949.588	5.0	98	0.00
18		Iodomethane	50.000	39.641	20.7#	78	0.00
19	P	Carbon Disulfide	50.000	42.126	15.7	85	0.00
20		Acetonitrile	250.000	262.838	-5.1	103	0.00
21		Allyl Chloride	50.000	50.778	-1.6	104	0.00
22	P	Methyl Acetate	50.000	32.551	34.9#	72	0.00
23	P	Methylene Chloride	50.000	46.996	6.0	99	0.00
24		TBA	1000.000	976.169	2.4	101	0.00
25		Acrylonitrile	250.000	234.259	6.3	95	0.00
26	P	Methyl-t-Butyl Ether	50.000	49.480	1.0	99	0.00
27	P	trans-1,2-Dichloroethene	50.000	48.779	2.4	95	0.00
28	P	1,1-Diclethane	50.000	52.118	-4.2	102	0.00
29		Vinyl Acetate	50.000	55.136	-10.3	110	0.00
30		DIPE	50.000	51.908	-3.8	102	0.00
31		2-Chloro-1,3-Butadiene	50.000	48.954	2.1	92	0.00
32		ETBE	50.000	49.232	1.5	97	0.00
33		2,2-Dichloropropane	50.000	53.157	-6.3	100	0.00
34	P	cis-1,2-Dichloroethene	50.000	52.160	-4.3	103	0.00
35	P	2-Butanone	50.000	42.440	15.1	85	0.00
36		Propionitrile	250.000	241.536	3.4	97	0.00
37		Bromochloromethane	50.000	50.554	-1.1	101	0.00
38		Methacrylonitrile	50.000	49.340	1.3	97	0.00
39		Tetrahydrofuran	50.000	50.569	-1.1	99	0.00
40	P	Chloroform	50.000	51.837	-3.7	101	0.00
41	P	1,1,1-Trichloroethane	50.000	56.294	-12.6	103	0.00
42		TAME	50.000	55.528	-11.1	105	0.00
43	i	1,4-Difluorobenzene	50.000	50.000	0.0	104	0.00
44	P	Cyclohexane	50.000	48.770	2.5	95	0.00
45	s	surr4,Dibrflmethane	50.000	49.447	1.1	104	0.00
46	P	Carbontetrachloride	50.000	55.863	-11.7	105	0.00
47		1,1-Dichloropropene	50.000	51.310	-2.6	99	0.00
48	s	surr1,1,2-dichloroethane-d4	50.000	48.924	2.2	102	0.00
49	P	Benzene	50.000	52.702	-5.4	104	0.00
50	P	1,2-Dichloroethane	50.000	49.375	1.3	99	0.00
51		Iso-Butyl Alcohol	1000.000	1012.639	-1.3	100	0.00

1st FNJ 02/21/24
2nd [illegible] 02/21/24

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8268.D
Acq On : 20 Feb 2024 09:23 pm
Operator : F.NAEGLER
Sample : 50 PPB ICV
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 21 09:56:50 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52		n-Heptane	50.000	49.548	0.9	93	0.00
53		1-Butanol	2500.000	2617.446	-4.7	98	0.00
54	P	Trichloroethene	50.000	52.686	-5.4	102	0.00
55	P	Methylcyclohexane	50.000	49.093	1.8	94	0.00
56	P	1,2-Diclpropane	50.000	51.309	-2.6	101	0.00
57		Dibromomethane	50.000	50.342	-0.7	101	0.00
58		1,4-Dioxane	1000.000	941.617	5.8	97	0.00
59		Methyl Methacrylate	50.000	53.076	-6.2	103	0.00
60	P	Bromodichloromethane	50.000	54.131	-8.3	102	0.00
61		2-Nitropropane	100.000	99.663	0.3	91	0.00
62		2-Chloroethylvinyl Ether	50.000	47.333	5.3	93	0.00
63	P	cis-1,3-Dichloropropene	50.000	55.771	-11.5	107	0.00
64	P	4-Methyl-2-pentanone	50.000	48.036	3.9	97	0.00
65	s	SURR3,Toluene-d8	50.000	49.249	1.5	103	0.00
66	P	Toluene	50.000	54.122	-8.2	102	0.00
67	P	trans-1,3-Dichloropropene	50.000	57.735	-15.5	108	0.00
68		Ethyl Methacrylate	50.000	55.356	-10.7	102	0.00
69	P	1,1,2-Trichloroethane	50.000	52.073	-4.1	100	0.00
70	s	SURR2,BFB	50.000	51.292	-2.6	101	0.00
71	i	d5-Chlorobenzene	50.000	50.000	0.0	103	0.00
72	P	Tetrachloroethene	50.000	54.487	-9.0	103	0.00
73	P	2-Hexanone	50.000	47.050	5.9	93	0.00
74		1,3-Dichloropropane	50.000	50.202	-0.4	101	0.00
75	P	Dibromochloromethane	50.000	53.627	-7.3	104	0.00
76		N-Butyl Acetate	50.000	49.141	1.7	95	0.00
77	P	1,2-Dibromoethane	50.000	52.049	-4.1	103	0.00
78		3-Chlorobenzotrifluoride	50.000	50.058	-0.1	99	0.00
79	P	Chlorobenzene	50.000	51.393	-2.8	102	0.00
80		4-Chlorobenzotrifluoride	50.000	50.263	-0.5	99	0.00
81		1,1,1,2-Tetrachloroethane	50.000	53.997	-8.0	105	0.00
82	P	Ethylbenzene	50.000	53.289	-6.6	103	0.00
83	P	(m+p)Xylene	100.000	110.953	-11.0	102	0.00
84	P	o-Xylene	50.000	54.314	-8.6	103	0.00
85	P	Styrene	50.000	57.577	-15.2	103	0.00
86	P	Bromoform	50.000	58.091	-16.2	111	0.00
87		2-Chlorobenzotrifluoride	50.000	52.911	-5.8	101	0.00
88	P	Isopropylbenzene	50.000	54.188	-8.4	100	0.00
89		Cyclohexanone	1000.000	1071.439	-7.1	108	0.00
90		trans-1,4-Dichloro-2-Butene	50.000	46.533	6.9	86	0.00
91	i	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	101	0.00
92	P	1,1,2,2-Tetrachloroethane	50.000	48.003	4.0	96	0.00
93		Bromobenzene	50.000	52.439	-4.9	103	0.00
94		1,2,3-Trichloropropane	50.000	49.190	1.6	98	0.00
95		n-Propylbenzene	50.000	51.220	-2.4	99	0.00
96		2-Chlorotoluene	50.000	49.745	0.5	100	0.00
97		3-Chlorotoluene	50.000	50.160	-0.3	100	0.00
98		4-Chlorotoluene	50.000	51.977	-4.0	101	0.00
99		1,3,5-Trimethylbenzene	50.000	51.951	-3.9	98	0.00
100		tert-Butylbenzene	50.000	53.251	-6.5	102	0.00
101		1,2,4-Trimethylbenzene	50.000	51.181	-2.4	97	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA14\Data\022024\
Data File : F8268.D
Acq On : 20 Feb 2024 09:23 pm
Operator : F.NAEGLER
Sample : 50 PPB ICV
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 21 09:56:50 2024
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W022024.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Wed Feb 21 09:22:24 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
102		3,4-Dichlorobenzotrifluorid	50.000	51.794	-3.6	99	0.00
103		sec-Butylbenzene	50.000	52.502	-5.0	98	0.00
104		p-Isopropyltoluene	50.000	54.905	-9.8	100	0.00
105	P	1,3-Dclbenz	50.000	53.384	-6.8	102	0.00
106	P	1,4-Dclbenz	50.000	50.603	-1.2	102	0.00
107		2,4-Dichlorobenzotrifluorid	50.000	51.587	-3.2	100	0.00
108		2,5-Dichlorobenzotrifluorid	50.000	51.382	-2.8	101	0.00
109		n-Butylbenzene	50.000	54.266	-8.5	100	0.00
110	P	1,2-Dclbenz	50.000	51.024	-2.0	100	0.00
111	P	1,2-Dibromo-3-chloropropane	50.000	53.803	-7.6	103	0.00
112		Trielution Dichlorotoluene	150.000	152.225	-1.5	98	0.00
113		1,3,5-Trichlorobenzene	50.000	50.305	-0.6	99	0.00
114		Coelution Dichlorotoluene	100.000	102.546	-2.5	100	0.00
115	P	1,2,4-Tcbenzene	50.000	51.145	-2.3	102	0.00
116		Hexachlorobt	50.000	51.869	-3.7	99	0.00
117		Naphthalen	50.000	50.082	-0.2	98	0.00
118		1,2,3-Tclbenzene	50.000	51.835	-3.7	102	0.00
119		2,4,5-Trichlorotoluene	50.000	51.928	-3.9	100	0.00
120		2,3,6-Trichlorotoluene	50.000	48.283	3.4	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

ALS Group USA, Corp.

DBA ALS Environmetal

QC/QC Report

Date Analyzed: 2/20/24 15:57

ICAL Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA14\Data\022024\F8254.D Analytical Method: 8260C/624.1

Instrument ID: R-MS-14

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Results Pass/Fail
50	95	15	40	24.5	35972	PASS
75	95	30	60	57.8	84904	PASS
95	95	100	100	100.0	146979	PASS
96	95	5	9	6.7	9874	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	79.8	117248	PASS
175	174	5	9	8.8	10303	PASS
176	174	95	101	97.3	114040	PASS
177	176	5	9	6.8	7789	PASS

Sample Name	Lab Code	File ID:	Date Analyzes:	Q
ICAL BLK	ICAL BLK	I:\ACQUDATA\MSVOA14\DATA\022024\F8255.D	2/20/24 16:33	
0.5 PPB STD	0.5 PPB STD	I:\ACQUDATA\MSVOA14\DATA\022024\F8256.D	2/20/24 16:55	
1.0 PPB STD	1.0 PPB STD	I:\ACQUDATA\MSVOA14\DATA\022024\F8257.D	2/20/24 17:18	
2.0 PPB STD	2.0 PPB STD	I:\ACQUDATA\MSVOA14\Data\022024\F8258.D	2/20/24 17:40	
5.0 PPB STD	5.0 PPB STD	I:\ACQUDATA\MSVOA14\Data\022024\F8259.D	2/20/24 18:02	
20 PPB STD	20 PPB STD	I:\ACQUDATA\MSVOA14\Data\022024\F8260.D	2/20/24 18:25	
50 PPB STD	50 PPB STD	I:\ACQUDATA\MSVOA14\Data\022024\F8261.D	2/20/24 18:47	
100 PPB STD	100 PPB STD	I:\ACQUDATA\MSVOA14\Data\022024\F8262.D	2/20/24 19:09	
150 PPB STD	150 PPB STD	I:\ACQUDATA\MSVOA14\Data\022024\F8263.D	2/20/24 19:32	
200 PPB STD	200 PPB STD	I:\ACQUDATA\MSVOA14\Data\022024\F8264.D	2/20/24 19:54	
50 PPB ICV	50 PPB ICV	I:\ACQUDATA\MSVOA14\Data\022024\F8268.D	2/20/24 21:23	

Analysis: 8260/624 | Analyst: F. Naegler | pH strips: — | Tune Method: W022024.M

Date: 2/20/24 | Balance ID: — | ResCl strips: — | Run Method: ↓

Instr. MS14 | 50 mL Class A used for dilution FV | Syringes: 210903 / 218579 | LIMS Run# : —

Data Path: j:\acqudata\msvoa(InstID)\(Date)

Pos.	Sample	Diln.	Diln. Prep./	RL	Vial	HS	Cl	pH	File#	OK?	Comments
1	BLK								F8252	Y	
2	↓								53	Y	
3	TUNE								54	Y	
4	ICALBLK								55	Y	
5	0.5 ppb std								56	Y	
6	1								57	Y	
7	2								58	Y	
8	5								59	Y	
9	20								60	Y	
10	50								61	Y	
11	100								62	Y	
12	150								63	Y	
13	200 ↓								64	Y	
14	BLK								65	Y	
15	↓								66	Y	
16	↓								67	Y	
17	50 ppb ICV								68	Y	
18	BLK								↓ 69	Y	

WATER ICAL TABLE

CONC (PPB)	0.5	1.0	2.0	5.0	20	50	100	150	200
1° T|G = 233701	10mL/1mL → 5mL/5mL DI	MeOH 10mL/5mL DI	20mL/5mL DI	50mL/5mL DI	2mL/5mL DI	5mL/5mL DI	10mL/5mL DI	15mL/5mL DI	20mL/5mL DI
1° HSL = 233702	↓	↓	↓	↓	↓	↓	↓	↓	↓
1° Fr = 233687	↓	↓	↓	↓	↓	↓	↓	↓	↓
1° OCC = 232984	↓	↓	↓	↓	↓	↓	↓	↓	↓
1° 236-TCT = 233456	↓	↓	↓	↓	↓	↓	↓	↓	↓

All samples = 5 mL + 5 uL combined IS/ 5 mL purged

T\|G Primary 50 : SEE TABLE ABOVE

HSL Primary : ↓

Fr Primary :

OCC Primary :

236-TCT Primary : ↓

Fr Secondary 20 : 233493

T\|G Secondary 50 : 233745

HSL Secondary : 233494

OCC Secondary : 232672

236-TCT Secondary : 233457

Combined IS/Surr : —

Surrogate 50 : 233764

Internal Std 50 : 233765

Reagents: MeOH:

ALS Group USA, Corp.

DBA ALS Environmetal

QC/QC Report

Date Analyzed: 2/15/24 12:24

ICAL Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA17\Data\021524\E9805.D Analytical Method: 8260C/624.1

Instrument ID: R-MS-11

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Results Pass/Fail
50	95	15	40	20.3	42204	PASS
75	95	30	60	50.2	104364	PASS
95	95	100	100	100.0	207744	PASS
96	95	5	9	6.9	14383	PASS
173	174	0	2	0.9	1480	PASS
174	95	50	120	76.3	158429	PASS
175	174	5	9	7.3	11640	PASS
176	174	95	101	97.7	154715	PASS
177	176	5	9	6.9	10740	PASS

Sample Name	Lab Code	File ID:	Date Analyzes:	Q
0.5ppb	0.5ppb	I:\ACQUDATA\MSVOA17\Data\021524\E9806.D	2/15/24 12:47	
1.0ppb	1.0ppb	I:\ACQUDATA\MSVOA17\Data\021524\E9807.D	2/15/24 13:10	
2.0ppb	2.0ppb	I:\ACQUDATA\MSVOA17\Data\021524\E9808.D	2/15/24 13:33	
5.0ppb	5.0ppb	I:\ACQUDATA\MSVOA17\Data\021524\E9809.D	2/15/24 13:56	
20ppb	20ppb	I:\ACQUDATA\MSVOA17\Data\021524\E9810.D	2/15/24 14:19	
50ppb	50ppb	I:\ACQUDATA\MSVOA17\Data\021524\E9811.D	2/15/24 14:42	
100ppb	100ppb	I:\ACQUDATA\MSVOA17\Data\021524\E9812.D	2/15/24 15:05	
150ppb	150ppb	I:\ACQUDATA\MSVOA17\Data\021524\E9813.D	2/15/24 15:28	
200ppb	200ppb	I:\ACQUDATA\MSVOA17\Data\021524\E9814.D	2/15/24 15:51	
ICV50	ICV50	I:\ACQUDATA\MSVOA17\Data\021524\E9818.D	2/15/24 17:23	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9818.D
Acq On : 15 Feb 2024 05:23 pm
Operator : K.Ruest
Sample : ICV50
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 16 11:02:20 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.086	168	468129	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.245	114	685387	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.622	117	611873	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	11.683	152	308717	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.922	113	225391	50.74	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 101.48%				
48) surr1,1,2-dichloroetha...	5.501	65	268125	50.33	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.66%				
65) SURR3,Toluene-d8	8.104	98	803657	50.22	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 100.44%				
70) SURR2,BFB	10.707	95	302534	49.40	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 98.80%				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.099	51	240607	54.652	ug/L		97
3) Dichlorodifluoromethane	1.093	85	180877m	30.317	ug/L		
4) Chloromethane	1.215	50	202706	43.509	ug/L		100
5) Vinyl Chloride	1.288	62	197669	41.615	ug/L		98
6) Bromomethane	1.495	94	123376	48.373	ug/L		95
7) Chloroethane	1.569	64	123323	38.949	ug/L		96
8) Freon 21	1.709	67	309877	45.152	ug/L		98
9) Trichlorofluoromethane	1.751	101	327224	49.923	ug/L		99
10) Diethyl Ether	1.971	59	183443	51.616	ug/L		99
11) Freon 123a	1.977	67	203269	51.367	ug/L		99
12) Freon 123	2.026	83	313078	61.784	ug/L		98
13) Acrolein	2.068	56	92608	98.628	ug/L		99
14) 1,1-Diclethene	2.148	96	183147	50.591	ug/L		94
15) Freon 113	2.148	101	196462	51.691	ug/L		99
16) Acetone	2.190	43	104221	47.594	ug/L		97
17) 2-Propanol	2.318	45	368706	979.060	ug/L		99
18) Iodomethane	2.264	142	284355	47.431	ug/L		98
19) Carbon Disulfide	2.325	76	468702	46.261	ug/L		100
20) Acetonitrile	2.446	41	230538m	260.480	ug/L		
21) Allyl Chloride	2.453	76	107970	53.324	ug/L		98
22) Methyl Acetate	2.483	43	209254	36.853	ug/L		98
23) Methylene Chloride	2.568	84	197684	52.719	ug/L		99
24) TBA	2.696	59	645857	989.114	ug/L		99
25) Acrylonitrile	2.812	53	517691	251.882	ug/L		100
26) Methyl-t-Butyl Ether	2.849	73	645946	51.781	ug/L		100
27) trans-1,2-Dichloroethene	2.837	96	195713	50.111	ug/L		98
28) 1,1-Diclethane	3.306	63	364879	53.211	ug/L		98
29) Vinyl Acetate	3.398	86	35754	62.624	ug/L	#	71
30) DIPE	3.422	45	639693	49.614	ug/L		95
31) 2-Chloro-1,3-Butadiene	3.422	53	331899	47.773	ug/L		99
32) ETBE	3.916	59	586770	46.451	ug/L		99
33) 2,2-Dichloropropane	4.080	77	314648	51.765	ug/L		99
34) cis-1,2-Dichloroethene	4.093	96	229368	52.899	ug/L		95
35) 2-Butanone	4.153	43	123874	43.857	ug/L		99
36) Propionitrile	4.233	54	211300	254.925	ug/L		98
37) Bromochloromethane	4.464	130	156684	52.877	ug/L		99
38) Methacrylonitrile	4.483	67	102904	51.334	ug/L		94
39) Tetrahydrofuran	4.562	42	84760	49.047	ug/L		98
40) Chloroform	4.635	83	362911	50.255	ug/L		98

1st 02/16/24
2nd 02/16/24

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9818.D
Acq On : 15 Feb 2024 05:23 pm
Operator : K.Ruest
Sample : ICV50
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 16 11:02:20 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-Trichloroethane	4.922	97	351290	54.170	ug/L	98
42) TAME	5.842	73	573846	50.548	ug/L	98
44) Cyclohexane	5.007	41	200717	51.877	ug/L	100
46) Carbontetrachloride	5.214	117	310919	53.490	ug/L	99
47) 1,1-Dichloropropene	5.233	75	259989	50.041	ug/L	99
49) Benzene	5.574	78	775636	53.868	ug/L	99
50) 1,2-Dichloroethane	5.629	62	312165	51.327	ug/L	98
51) Iso-Butyl Alcohol	5.635	43	239133	1054.959	ug/L	96
52) n-Heptane	6.098	43	302850	50.970	ug/L	97
53) 1-Butanol	6.647	56	361560	2686.555	ug/L	99
54) Trichloroethene	6.574	130	233622	52.135	ug/L	96
55) Methylcyclohexane	6.812	55	289611	51.664	ug/L	99
56) 1,2-Diclpropane	6.866	63	202210	52.551	ug/L	100
57) Dibromomethane	7.013	93	143240	52.450	ug/L	98
58) 1,4-Dioxane	7.092	88	63324	947.123	ug/L	89
59) Methyl Methacrylate	7.116	69	171547	54.772	ug/L	95
60) Bromodichloromethane	7.250	83	287496	54.045	ug/L	99
61) 2-Nitropropane	7.555	41	154600	101.475	ug/L	96
62) 2-Chloroethylvinyl Ether	7.677	63	75318	52.938	ug/L	100
63) cis-1,3-Dichloropropene	7.805	75	336785	54.390	ug/L	99
64) 4-Methyl-2-pentanone	8.031	43	259916	49.553	ug/L	98
66) Toluene	8.177	91	854951	53.369	ug/L	99
67) trans-1,3-Dichloropropene	8.464	75	318320	54.102	ug/L	100
68) Ethyl Methacrylate	8.610	69	313302	55.190	ug/L	99
69) 1,1,2-Trichloroethane	8.653	97	203405	52.107	ug/L	96
72) Tetrachloroethene	8.775	164	190941	53.523	ug/L	97
73) 2-Hexanone	8.957	43	195034	50.987	ug/L	98
74) 1,3-Dichloropropane	8.823	76	326041	51.318	ug/L	97
75) Dibromochloromethane	9.049	129	252222	54.687	ug/L	99
76) N-Butyl Acetate	9.116	43	400109	50.396	ug/L	99
77) 1,2-Dibromoethane	9.146	107	218444	52.109	ug/L	99
78) 3-Chlorobenzotrifluoride	9.677	180	312055	47.739	ug/L	100
79) Chlorobenzene	9.646	112	584521	51.628	ug/L	99
80) 4-Chlorobenzotrifluoride	9.732	180	282029	47.302	ug/L	100
81) 1,1,1,2-Tetrachloroethane	9.738	131	234713	53.827	ug/L	98
82) Ethylbenzene	9.768	106	316780	54.105	ug/L	99
83) (m+p)Xylene	9.884	106	782133	109.801	ug/L	98
84) o-Xylene	10.244	106	384060	54.822	ug/L	93
85) Styrene	10.256	104	654580	55.271	ug/L	98
86) Bromoform	10.408	173	181390	60.330	ug/L	99
87) 2-Chlorobenzotrifluoride	10.494	180	302353	49.089	ug/L	99
88) Isopropylbenzene	10.585	105	984702	53.826	ug/L	98
89) Cyclohexanone	10.652	55	1114902	1079.159	ug/L	99
90) trans-1,4-Dichloro-2-B...	10.902	53	84246	48.099	ug/L	98
92) 1,1,2,2-Tetrachloroethane	10.853	83	280844	51.538	ug/L	98
93) Bromobenzene	10.823	156	265925	52.143	ug/L	96
94) 1,2,3-Trichloropropane	10.878	110	99733	50.699	ug/L	98
95) n-Propylbenzene	10.939	91	1113156	53.411	ug/L	100
96) 2-Chlorotoluene	11.000	91	682118	53.528	ug/L	99
97) 3-Chlorotoluene	11.055	91	651468	48.417	ug/L	99
98) 4-Chlorotoluene	11.097	91	801559	52.743	ug/L	99
99) 1,3,5-Trimethylbenzene	11.097	105	842499	53.997	ug/L	99
100) tert-Butylbenzene	11.366	119	756989	55.304	ug/L	99
101) 1,2,4-Trimethylbenzene	11.408	105	846093	54.983	ug/L	99
102) 3,4-Dichlorobenzotrifl...	11.469	214	238260	49.556	ug/L	99
103) sec-Butylbenzene	11.548	105	1065951	55.292	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9818.D
Acq On : 15 Feb 2024 05:23 pm
Operator : K.Ruest
Sample : ICV50
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 16 11:02:20 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration

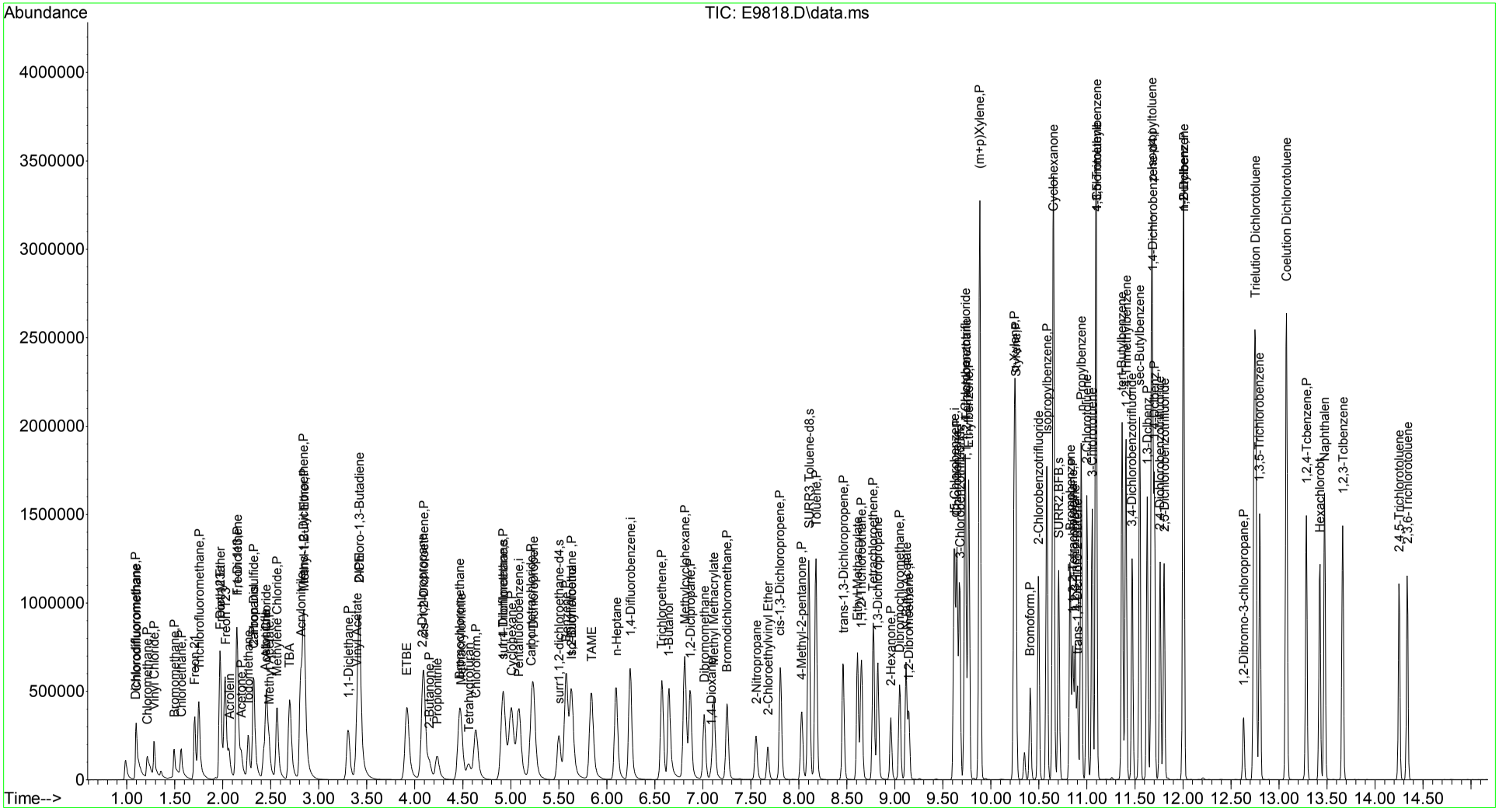
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) p-Isopropyltoluene	11.677	119	937296	55.442	ug/L	99
105) 1,3-Dclbenz	11.628	146	502819	52.987	ug/L	98
106) 1,4-Dclbenz	11.701	146	511907	52.749	ug/L	99
107) 2,4-Dichlorobenzotrifl...	11.762	214	214500	47.484	ug/L	99
108) 2,5-Dichlorobenzotrifl...	11.805	214	241436	49.464	ug/L	99
109) n-Butylbenzene	12.006	91	811667	56.980	ug/L	99
110) 1,2-Dclbenz	12.006	146	484788	52.717	ug/L	98
111) 1,2-Dibromo-3-chloropr...	12.634	157	77624	56.081	ug/L	97
112) Trielution Dichlorotol...	12.749	125	1252060	151.693	ug/L	99
113) 1,3,5-Trichlorobenzene	12.798	180	336386	49.961	ug/L	99
114) Coelution Dichlorotoluene	13.079	125	889195	102.459	ug/L	99
115) 1,2,4-Tcbenzene	13.286	180	345382	55.116	ug/L	98
116) Hexachlorobt	13.426	225	173655	55.608	ug/L	98
117) Naphthalen	13.475	128	956682	57.254	ug/L	99
118) 1,2,3-Tclbenzene	13.664	180	335383	57.326	ug/L	100
119) 2,4,5-Trichlorotoluene	14.249	159	235507	53.157	ug/L	99
120) 2,3,6-Trichlorotoluene	14.335	159	221446	53.269	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9818.D
Acq On : 15 Feb 2024 05:23 pm
Operator : K.Ruest
Sample : ICV50
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 16 11:02:20 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration



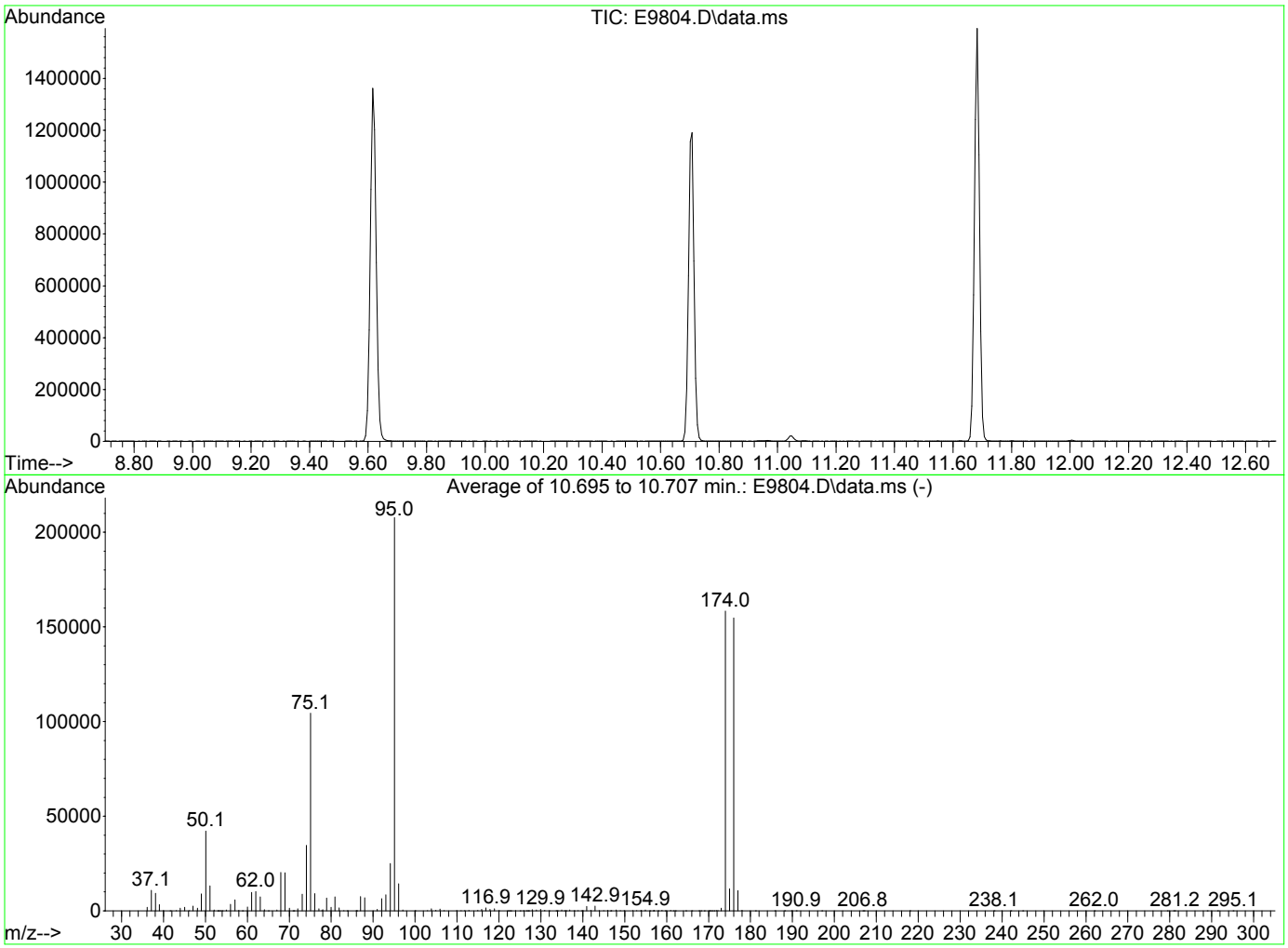
1st 02/16/24
2nd 02/16/24

1st 02/16/24
2nd 02/16/24

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9804.D
Acq On : 15 Feb 2024 11:26 am
Operator : K.Ruest
Sample : TUNE
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Title : MS#17 - 8260 WATERS 5mL Purge
Last Update : Thu Jan 04 14:47:51 2024



AutoFind: Scans 1658, 1659, 1660; Background Corrected with Scan 1652

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.3	42204	PASS
75	95	30	80	50.2	104364	PASS
95	95	100	100	100.0	207744	PASS
96	95	5	9	6.9	14383	PASS
173	174	0.00	2	0.9	1480	PASS
174	95	50	120	76.3	158429	PASS
175	174	5	9	7.3	11640	PASS
176	174	95	101	97.7	154715	PASS
177	176	5	9	6.9	10740	PASS

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9805.D
Acq On : 15 Feb 2024 12:24 pm
Operator : K.Ruest
Sample : IBLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 16 11:19:20 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration

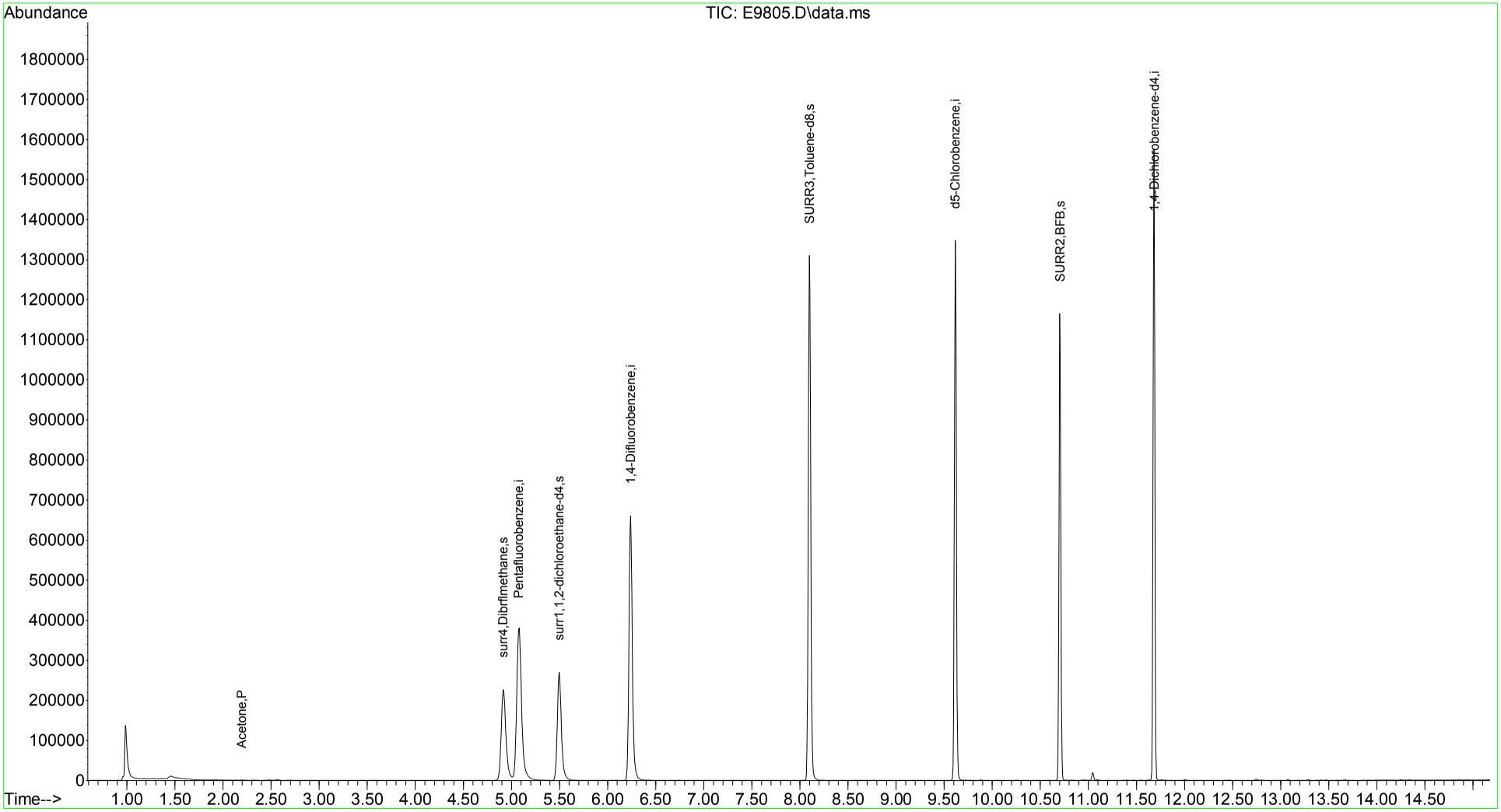
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.074	168	464305	50.00	ug/L	-0.01
43) 1,4-Difluorobenzene	6.239	114	695000	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.616	117	615525	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	11.683	152	300659	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.916	113	234924	52.15	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 104.30%			
48) surr1,1,2-dichloroetha...	5.495	65	293520	54.33	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 108.66%			
65) SURR3,Toluene-d8	8.098	98	829668	51.13	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.26%			
70) SURR2,BFB	10.701	95	309484	49.84	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.68%			
Target Compounds						Qvalue
16) Acetone	2.191	43	712	0.328	ug/L	84
23) Methylene Chloride	2.562	84	745	Below Cal	#	86

(#) = qualifier out of range (m) = manual integration (+) = signals summed

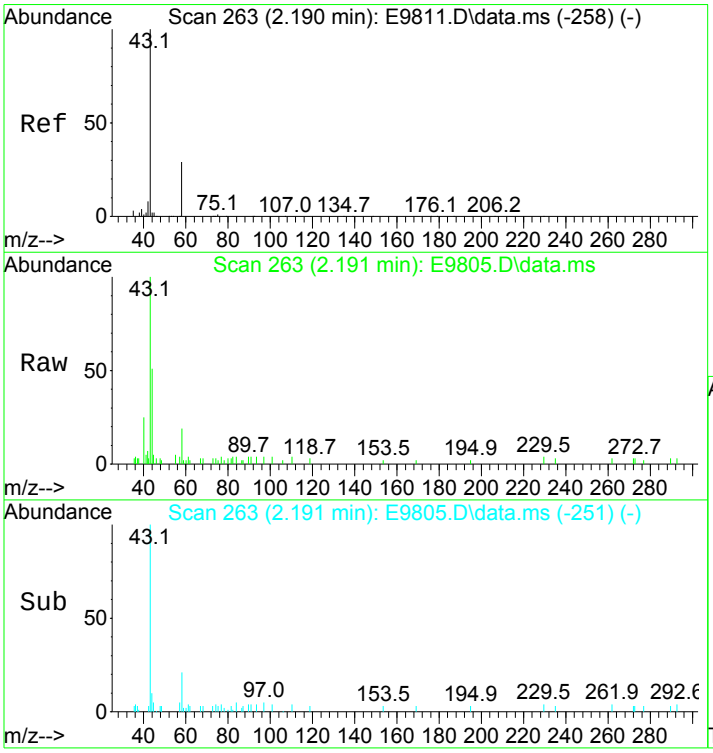
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9805.D
Acq On : 15 Feb 2024 12:24 pm
Operator : K.Ruest
Sample : IBLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 16 11:19:20 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration



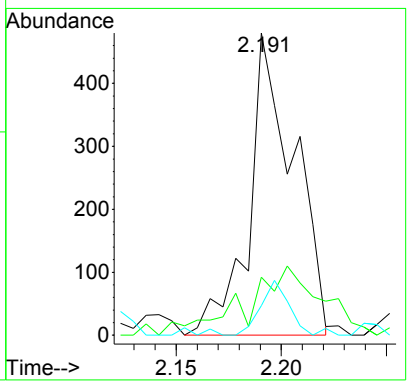
1st 02/16/24
2nd 02/16/24

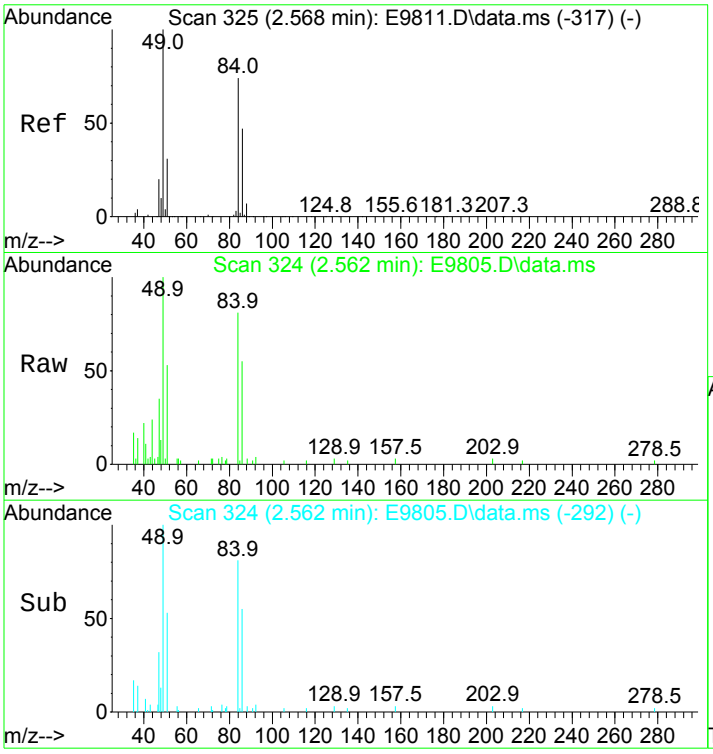


#16
Acetone
Concen: 0.33 ug/L
RT: 2.191 min Scan# 263
Delta R.T. 0.000 min
Lab File: E9805.D
Acq: 15 Feb 2024 12:24 pm

Tgt Ion: 43 Resp: 712

Ion	Ratio	Lower	Upper
43	100		
58	19.2	9.3	49.3
42	9.8	0.0	27.8

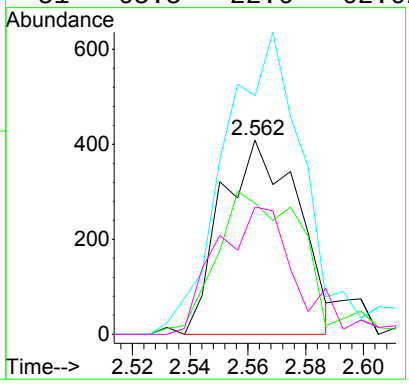




#23
Methylene Chloride
Concen: Below Cal
RT: 2.562 min Scan# 324
Delta R.T. -0.006 min
Lab File: E9805.D
Acq: 15 Feb 2024 12:24 pm

Tgt Ion: 84 Resp: 745

Ion	Ratio	Lower	Upper
84	100		
86	67.5	43.3	83.3
49	122.7	115.4	155.4
51	65.5	22.6	62.6#

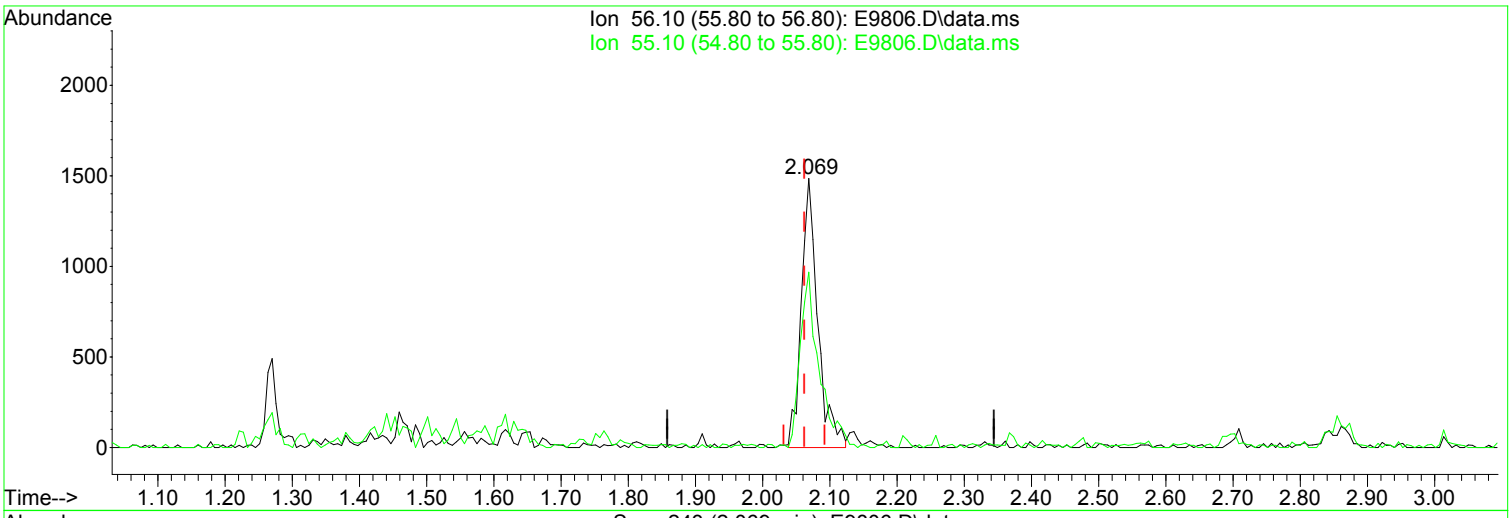


1st 02/16/24
2nd 02/16/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration



TIC: E9806.D\data.ms

(13) Acrolein

2.069min (+ 0.006) 2.55 ug/L m

response 2529

Ion	Exp%	Act%
56.10	100.00	100.00
55.10	70.00	65.19
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

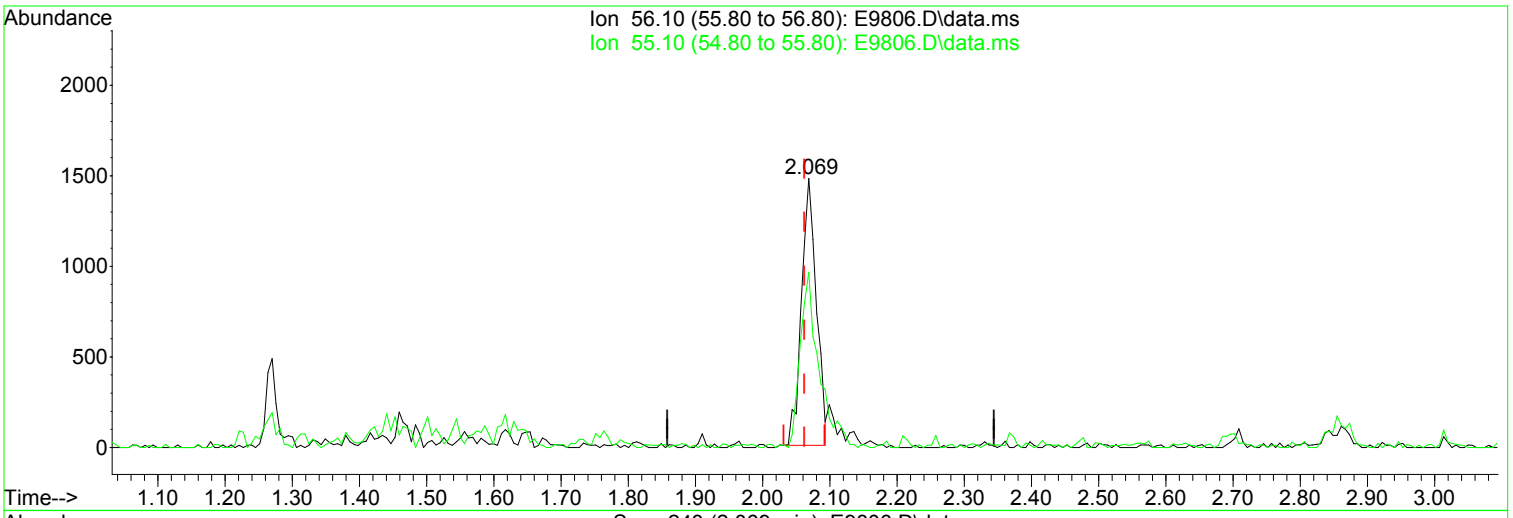
Poor integration.

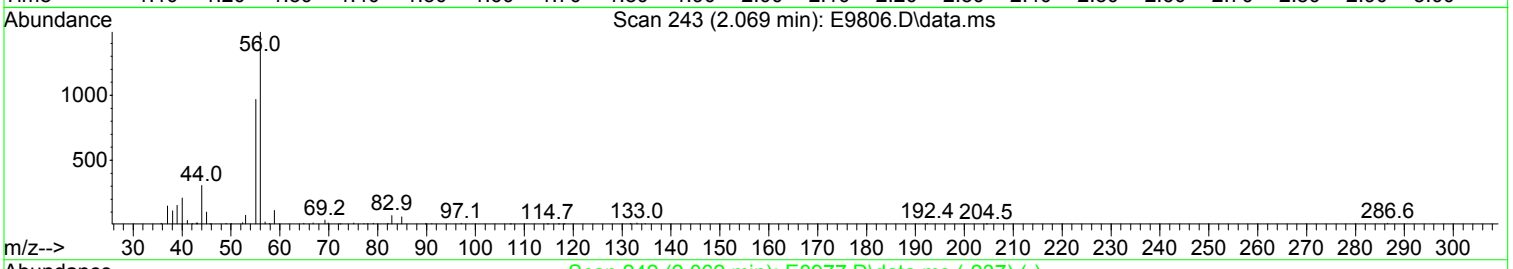
02/16/24

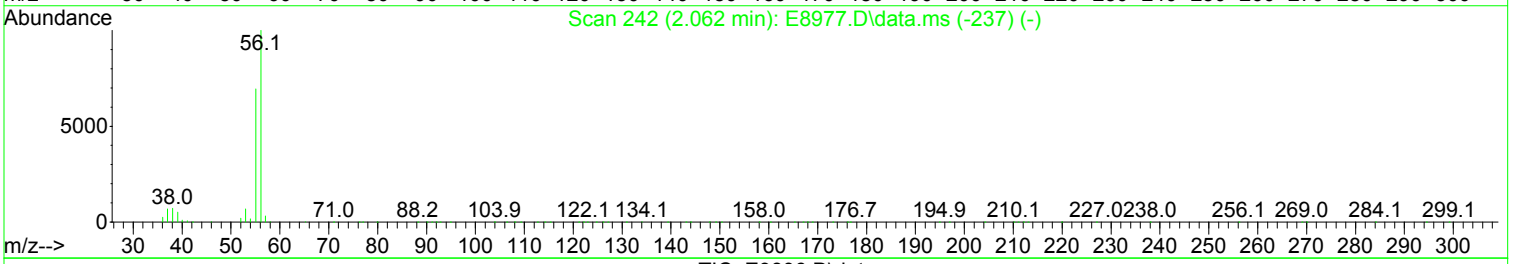
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9806.D\data.ms

(13) Acrolein

2.069min (+ 0.006) 2.28 ug/L

response 2267

Ion	Exp%	Act%
56.10	100.00	100.00
55.10	70.00	65.19
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

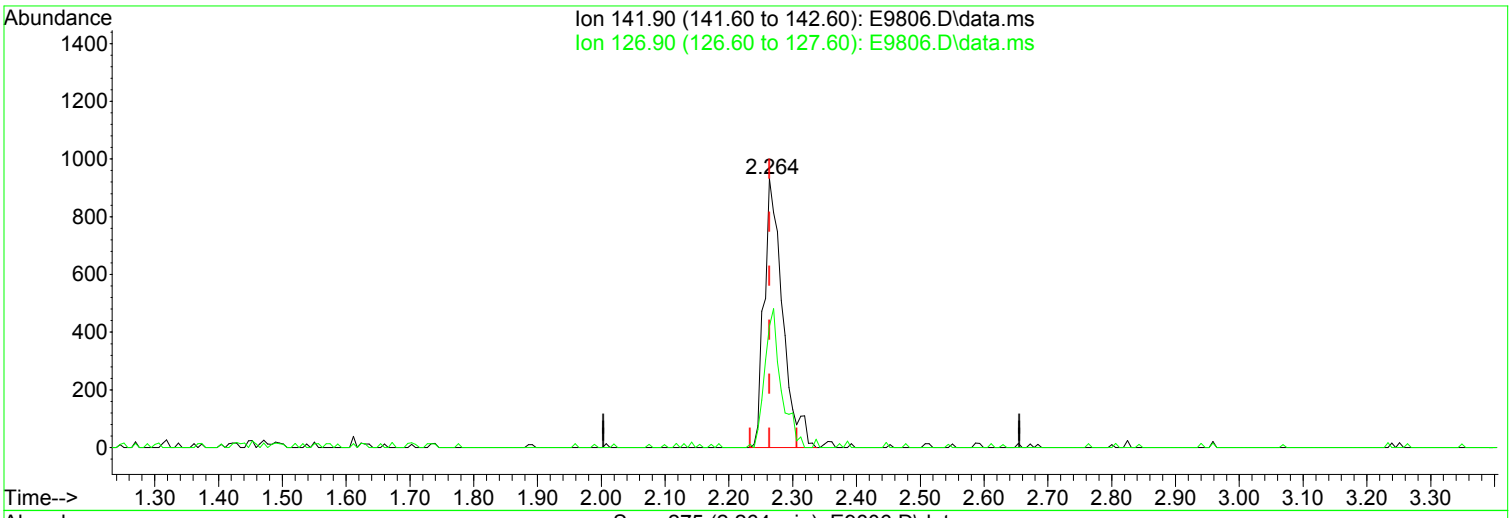
Before

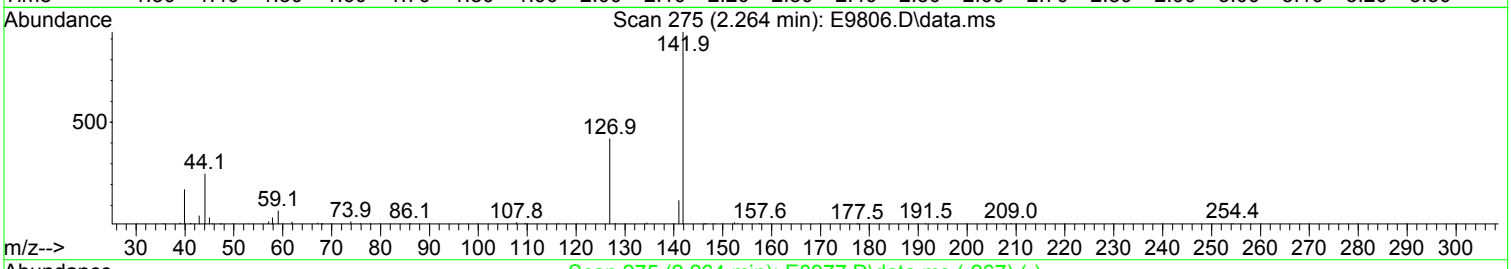
02/16/24

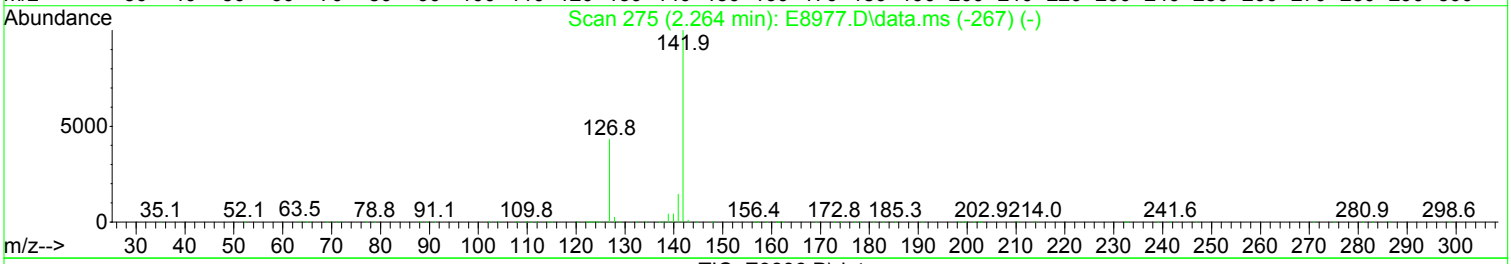
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9806.D\data.ms

(18) Iodomethane

2.264min (+ 0.000) 0.29 ug/L m

response 1880

Ion	Exp%	Act%
141.90	100.00	100.00
126.90	43.00	45.06
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

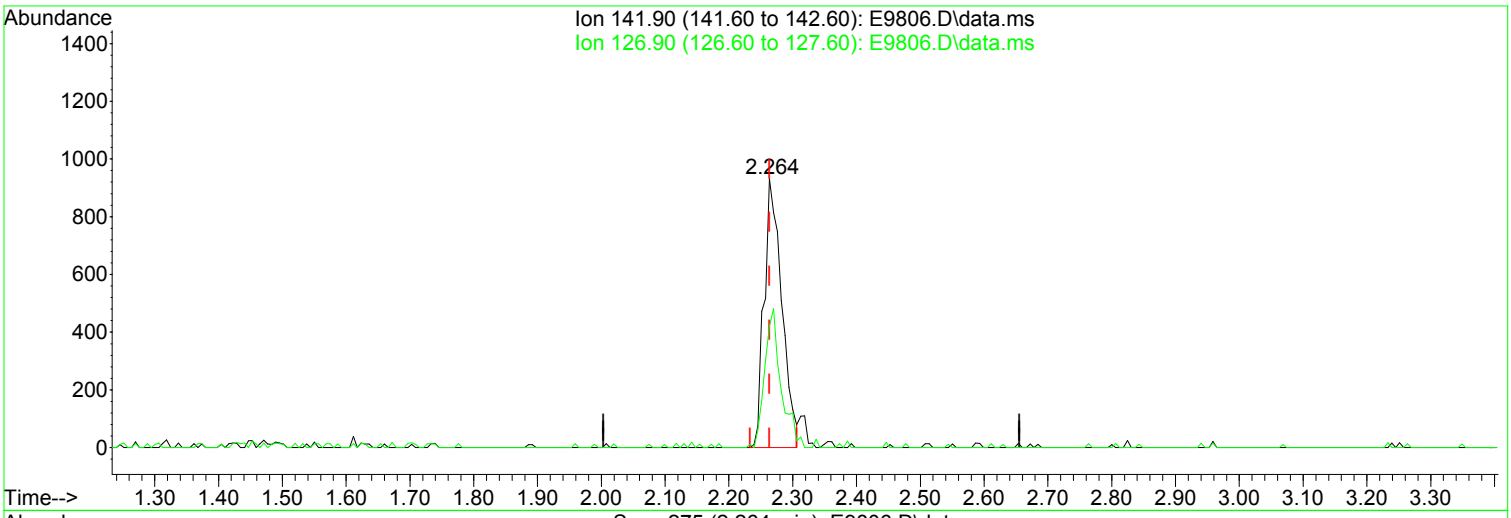
Poor integration.

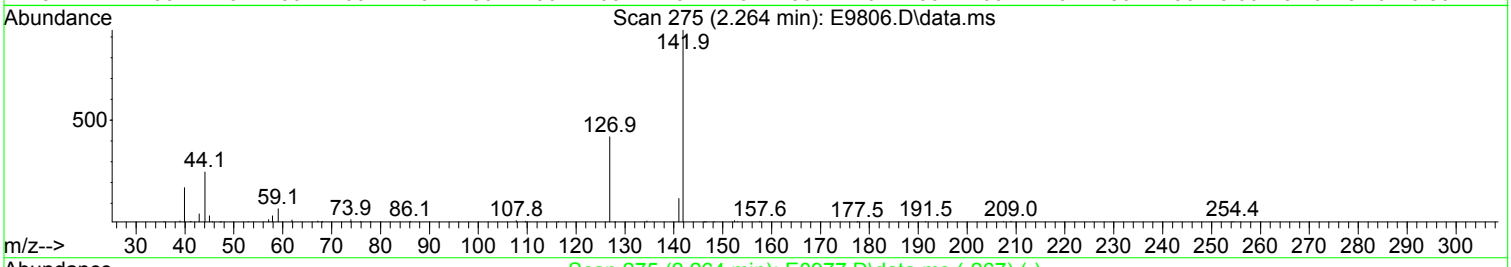
02/16/24

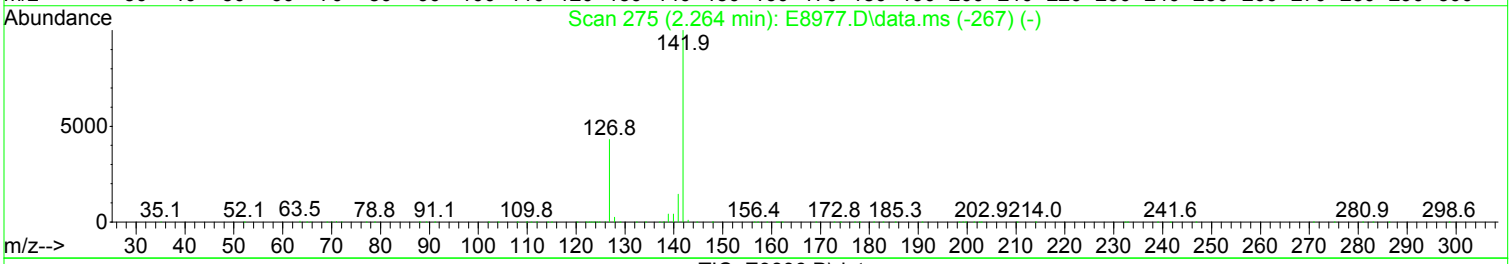
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9806.D\data.ms

(18) Iodomethane

2.264min (+ 0.000) 0.27 ug/L

response 1788

Ion	Exp%	Act%
141.90	100.00	100.00
126.90	43.00	45.06
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

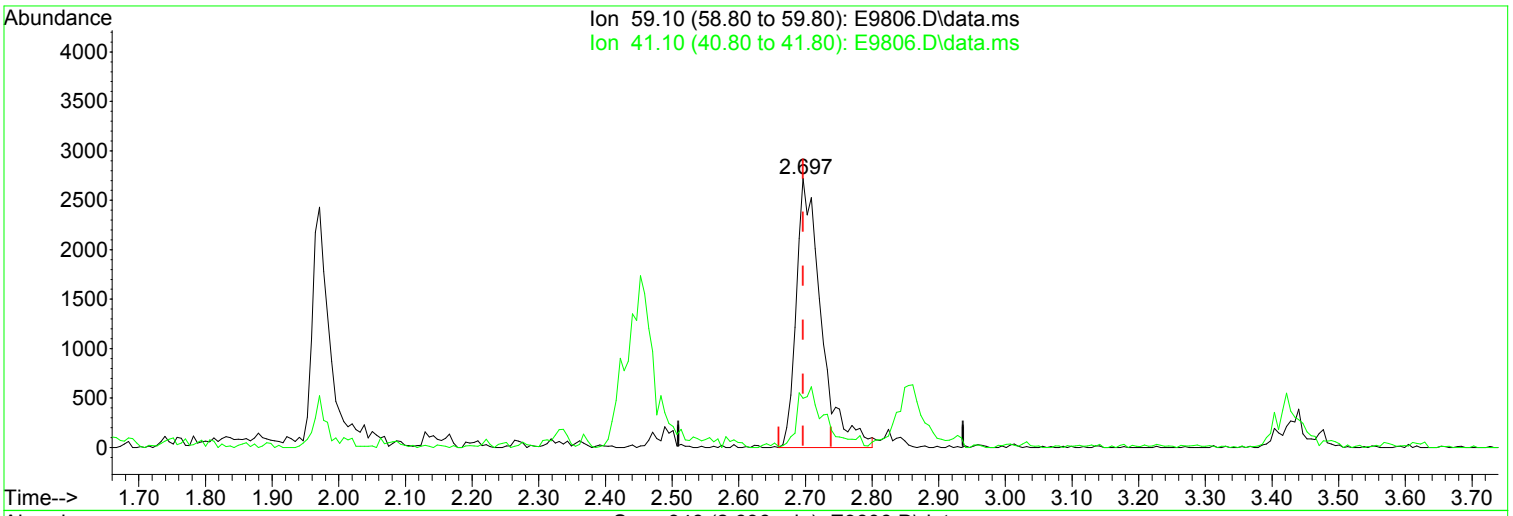
Before

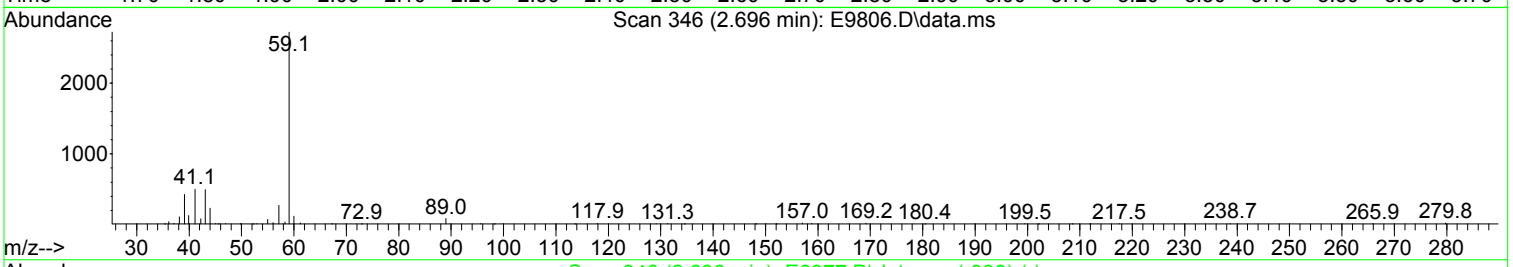
02/16/24

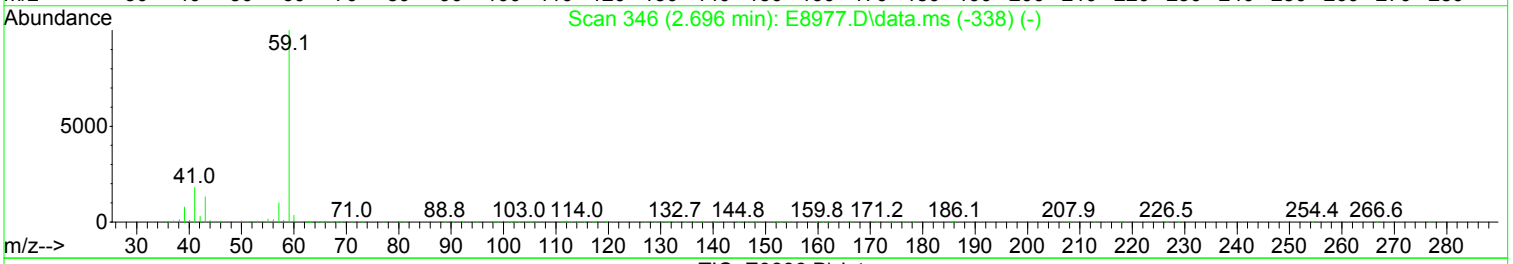
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9806.D\data.ms

(24) TBA

2.696min (+ 0.000) 10.89 ug/L m

response 7095

Ion	Exp%	Act%
59.10	100.00	100.00
41.10	18.30	18.35
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

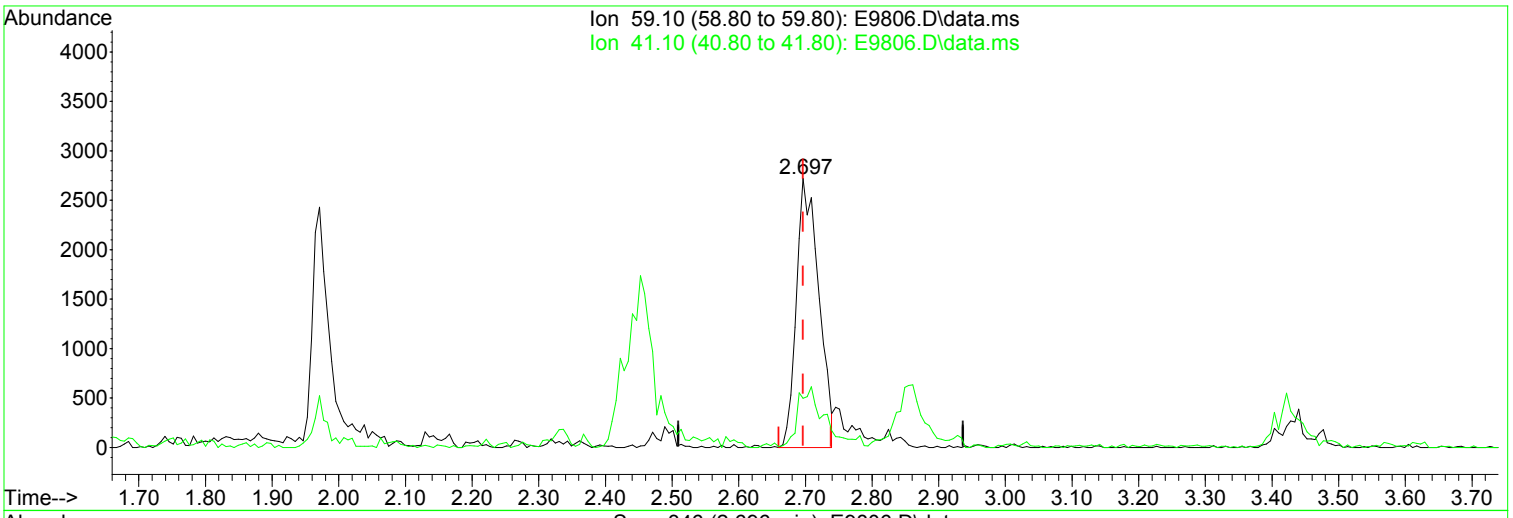
Poor integration.

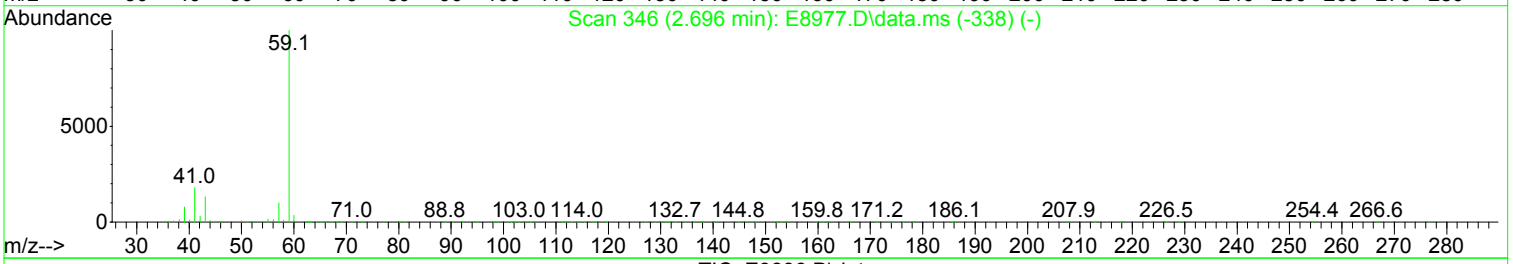
02/16/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration





TIC: E9806.D\data.ms

(24) TBA

2.696min (+ 0.000) 9.76 ug/L

response 6354

Ion	Exp%	Act%
59.10	100.00	100.00
41.10	18.30	18.35
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

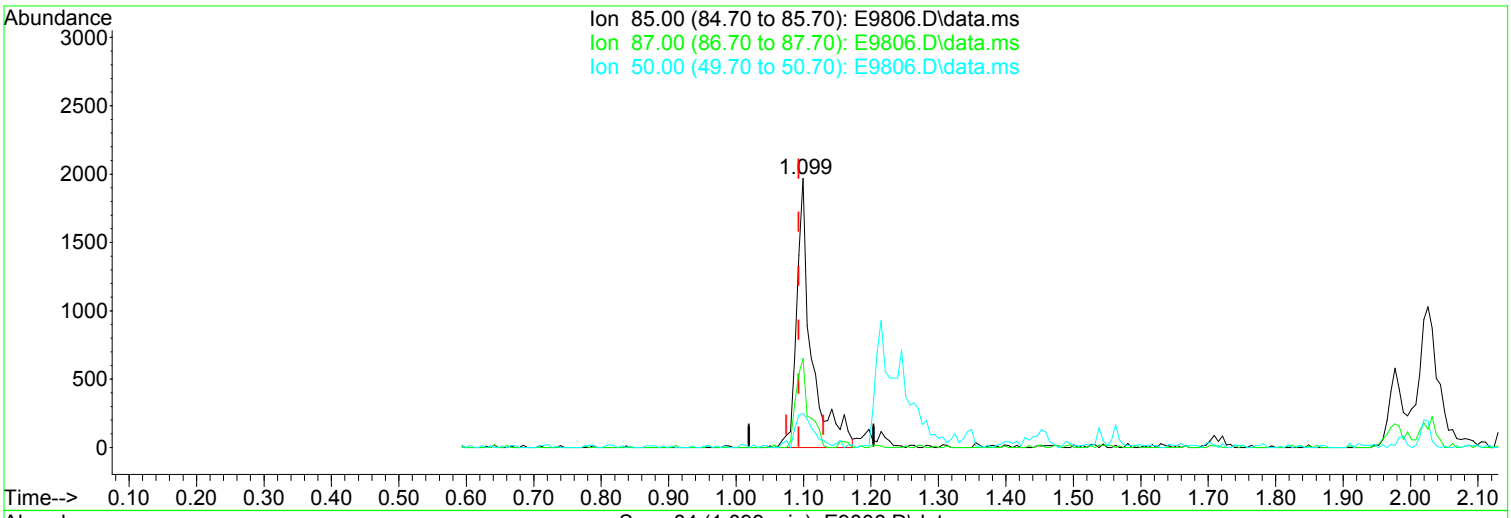
Before

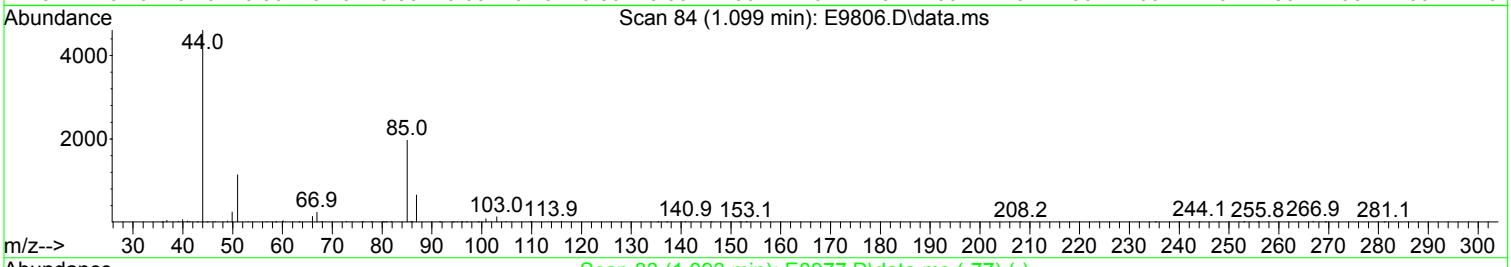
02/16/24

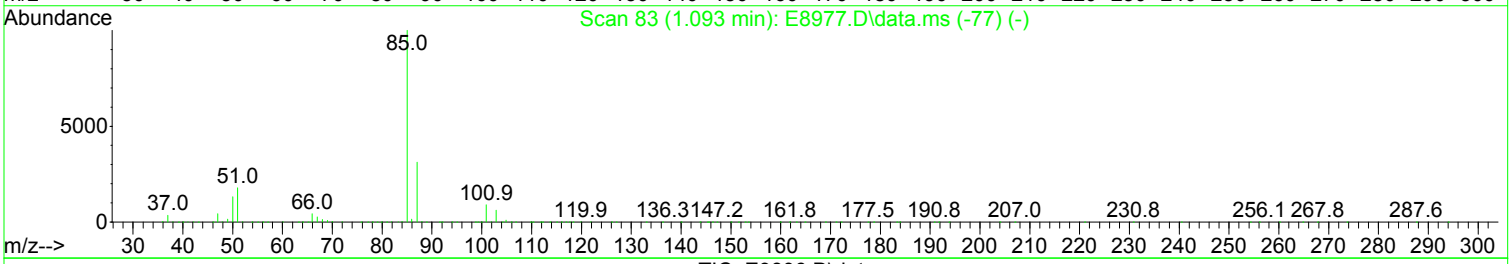
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9806.D\data.ms

(3) Dichlorodifluoromethane (P)

1.099min (+ 0.006) 0.52 ug/L m

response 2952

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.10	33.18
50.00	13.20	12.60
0.00	0.00	0.00

Manual Integration:

After

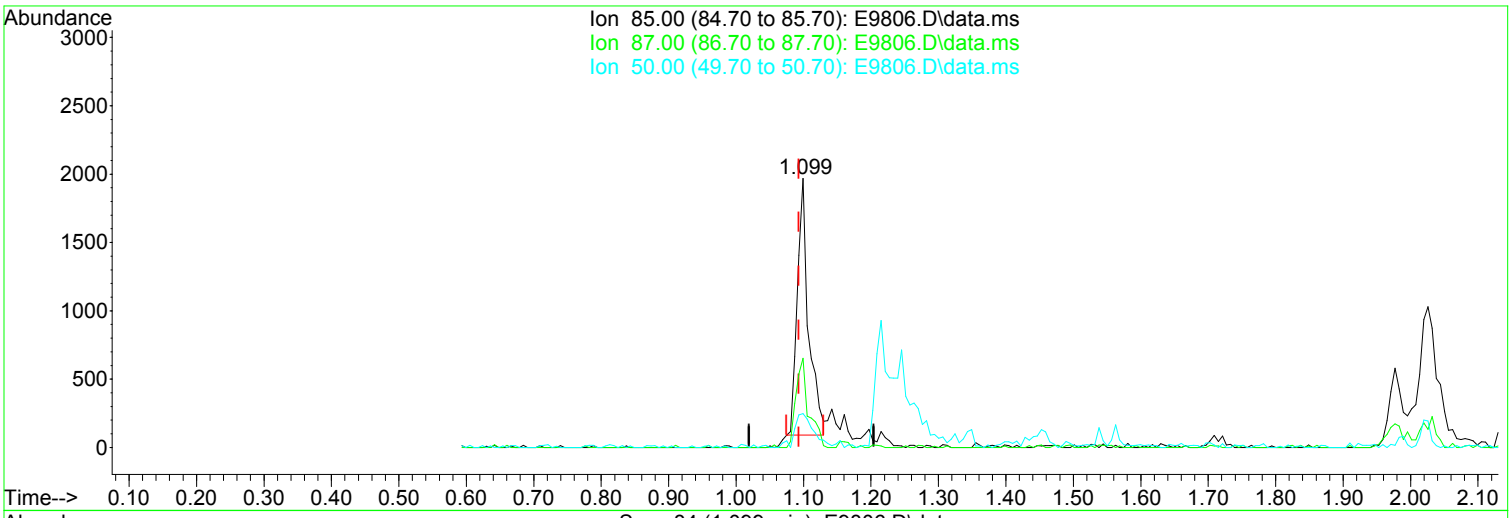
Poor integration.

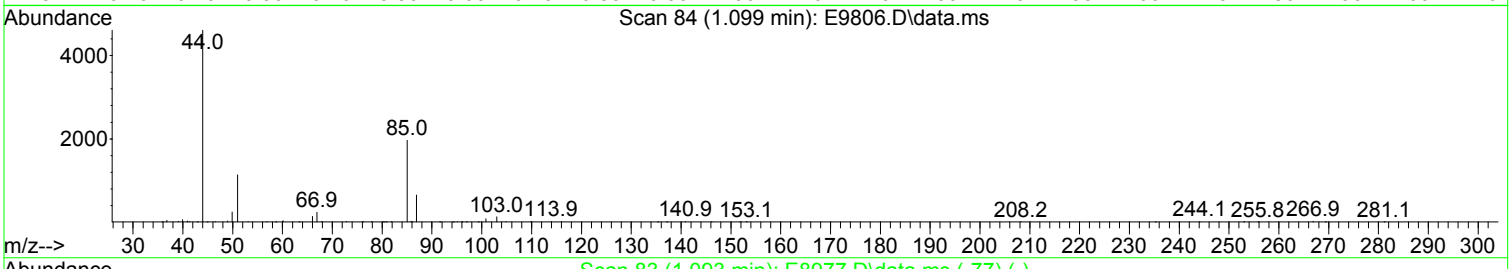
02/16/24

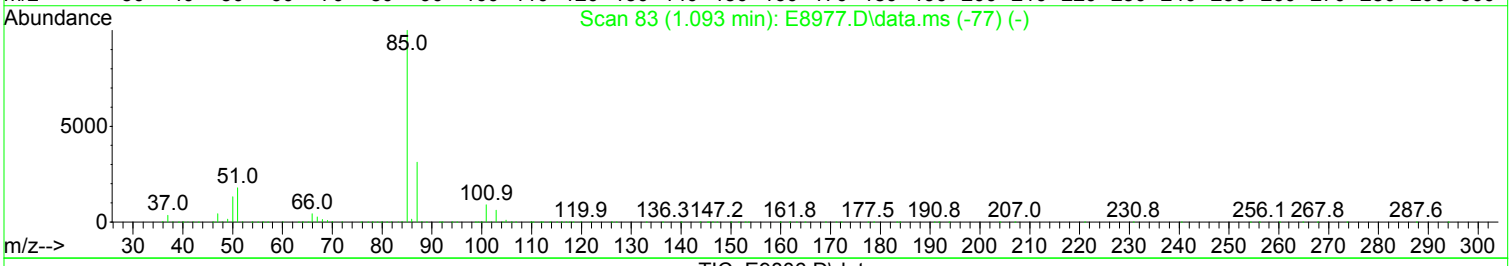
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9806.D\data.ms

(3) Dichlorodifluoromethane (P)

1.099min (+ 0.006) 0.38 ug/L

response 2160

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.10	33.18
50.00	13.20	12.60
0.00	0.00	0.00

Manual Integration:

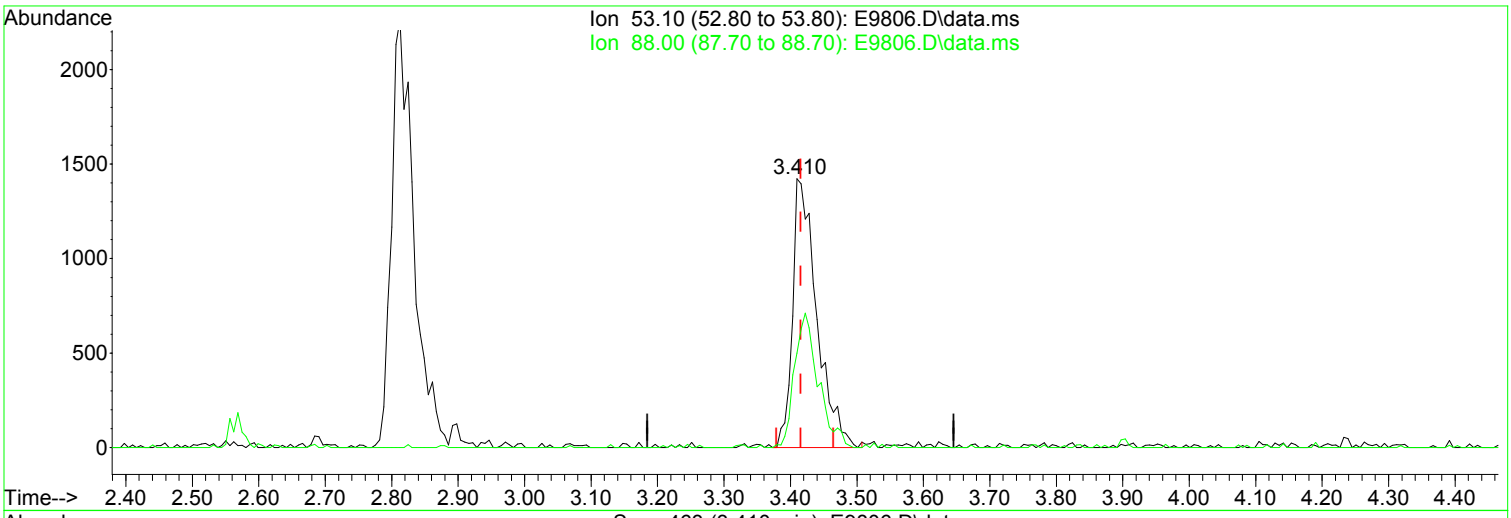
Before

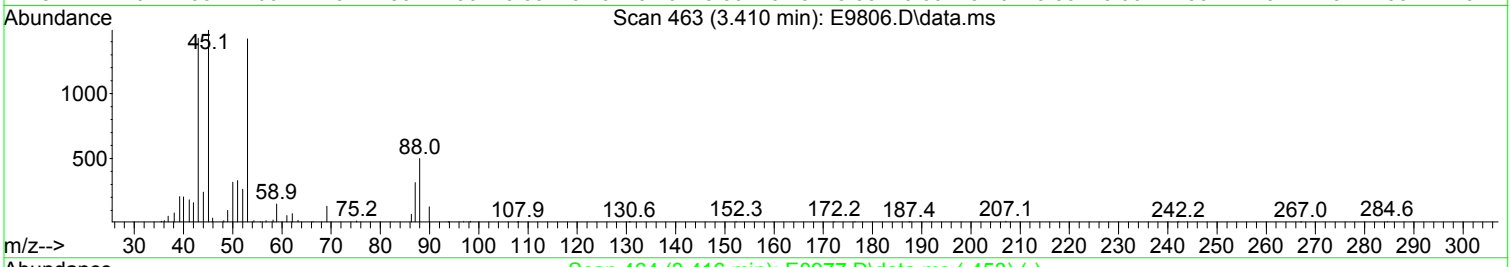
02/16/24

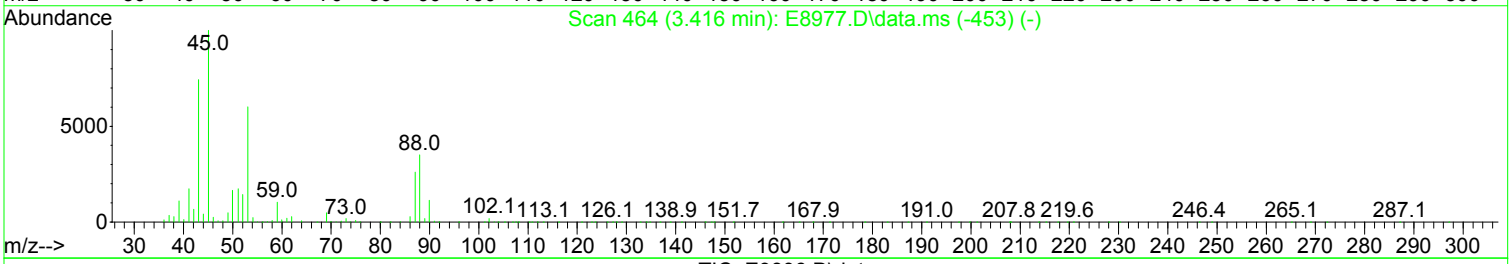
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9806.D\data.ms

(31) 2-Chloro-1,3-Butadiene

3.410min (-0.006) 0.52 ug/L m

response 3598

Ion	Exp%	Act%
53.10	100.00	100.00
88.00	58.30	35.07#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

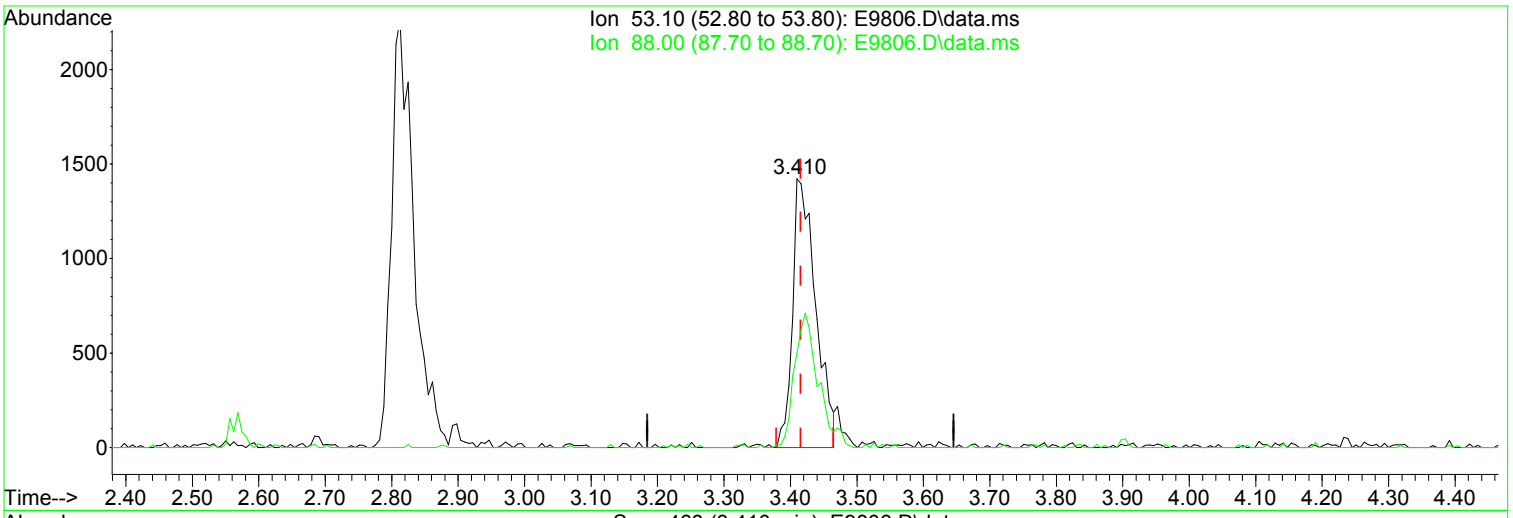
Poor integration.

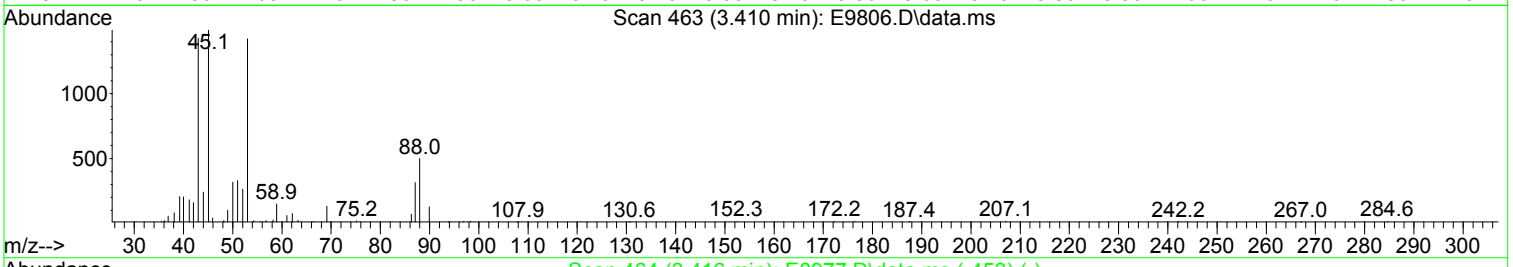
02/16/24

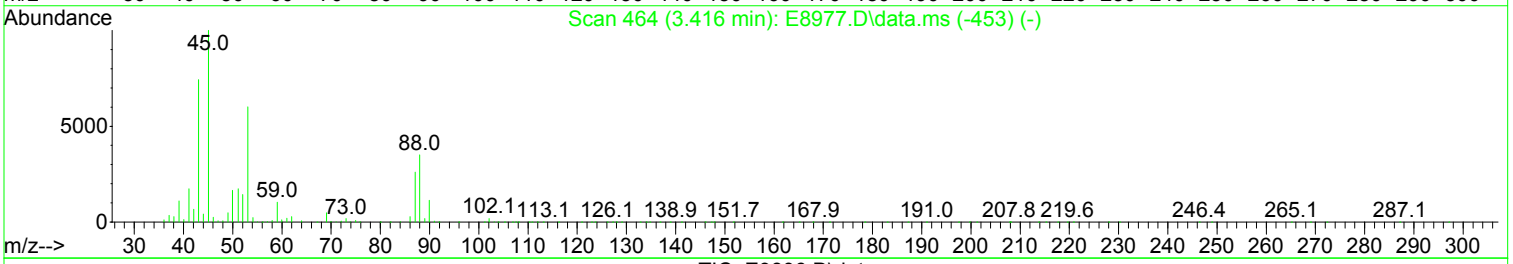
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9806.D\data.ms

(31) 2-Chloro-1,3-Butadiene

3.410min (-0.006) 0.50 ug/L

response 3426

Ion	Exp%	Act%
53.10	100.00	100.00
88.00	58.30	35.07#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

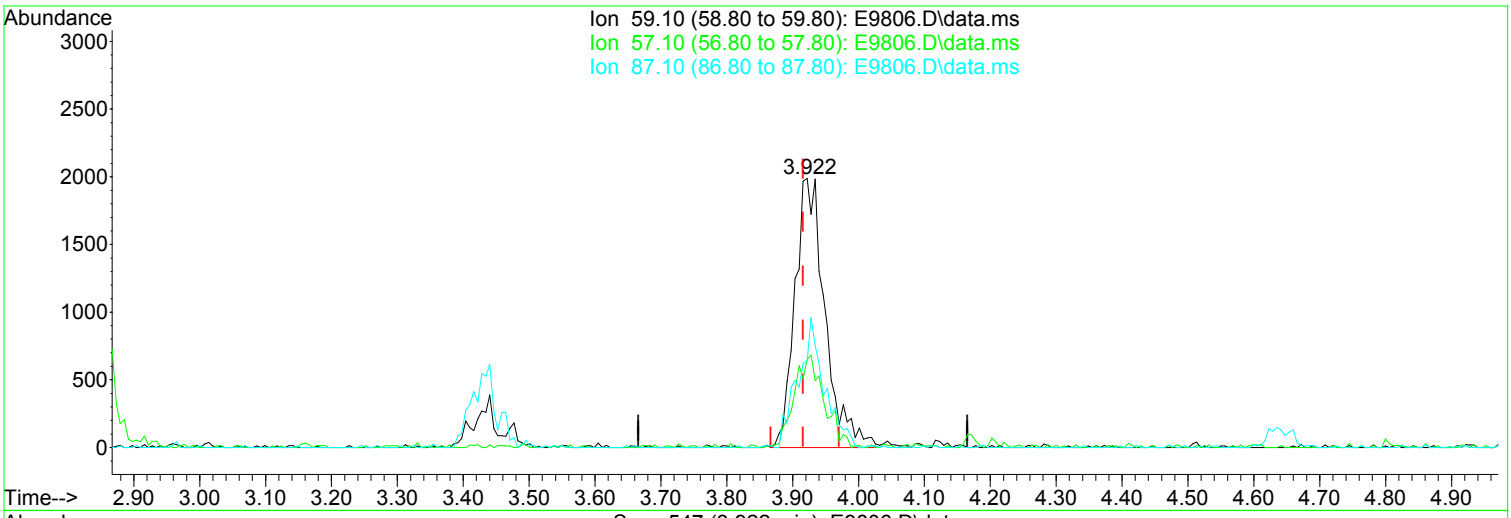
Before

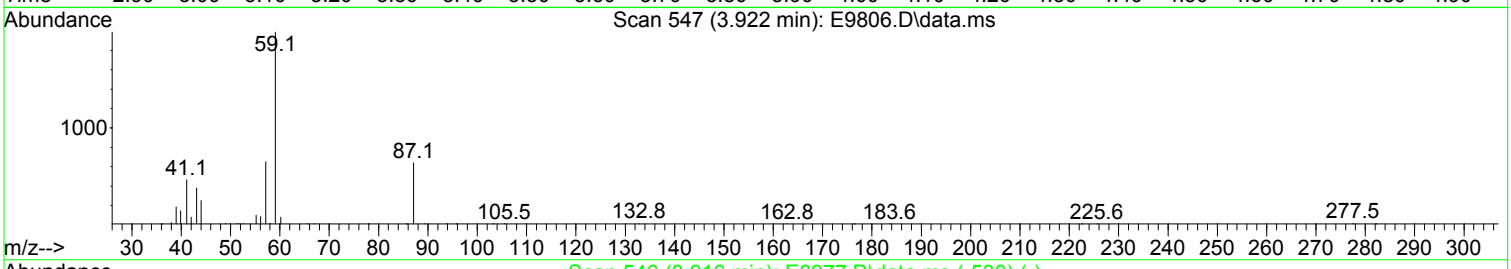
02/16/24

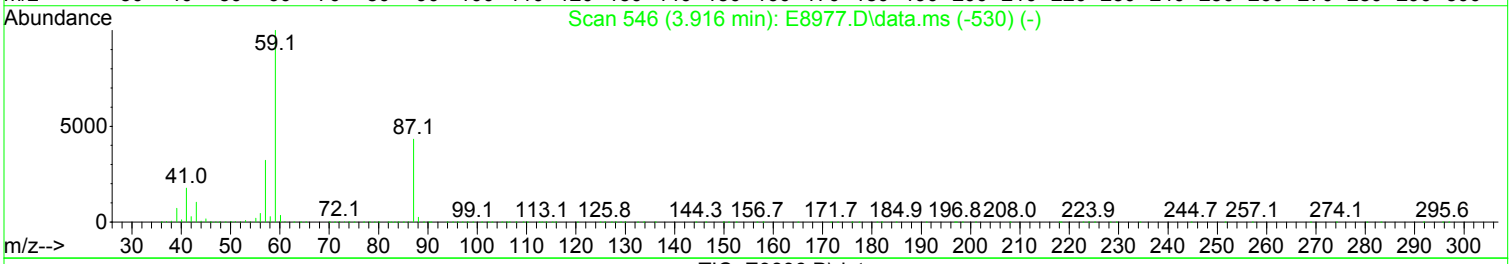
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9806.D\data.ms

(32) ETBE

3.922min (+ 0.006) 0.46 ug/L m

response 6309

Ion	Exp%	Act%
59.10	100.00	100.00
57.10	32.40	32.81
87.10	43.30	32.26
0.00	0.00	0.00

Manual Integration:

After

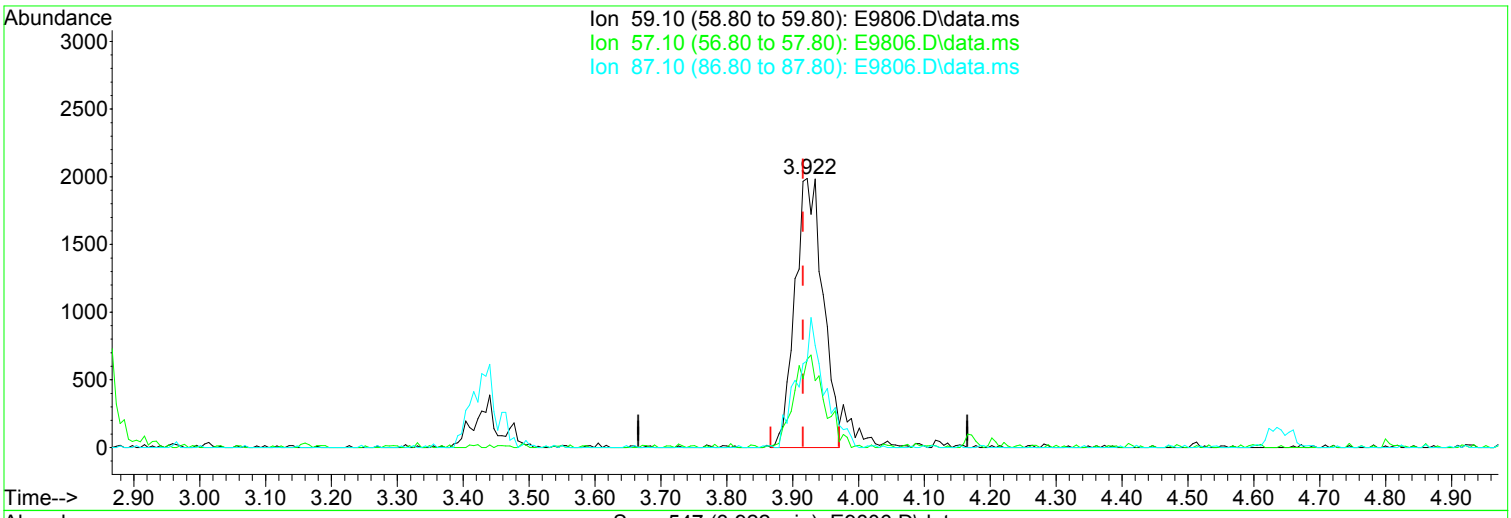
Poor integration.

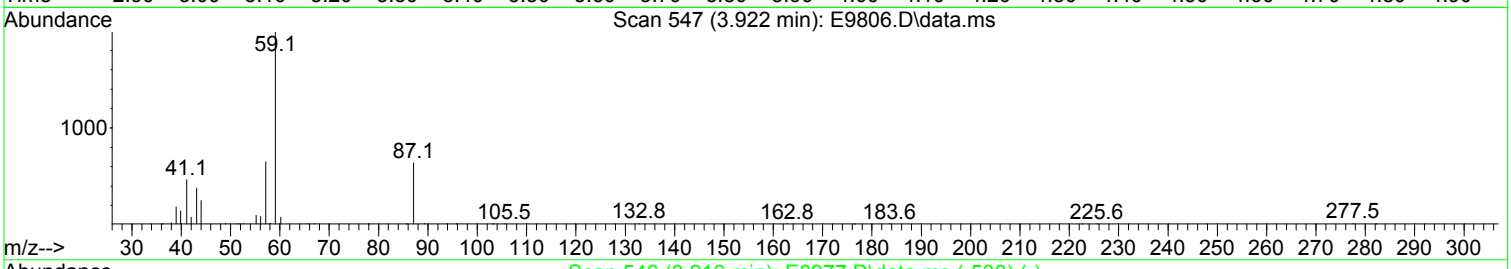
02/16/24

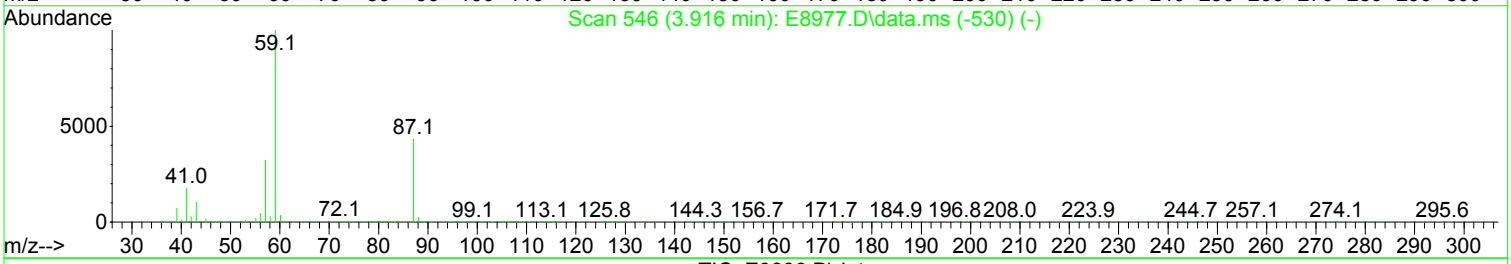
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9806.D\data.ms

(32) ETBE

3.922min (+ 0.006) 0.43 ug/L

response 5880

Ion	Exp%	Act%
59.10	100.00	100.00
57.10	32.40	32.81
87.10	43.30	32.26
0.00	0.00	0.00

Manual Integration:

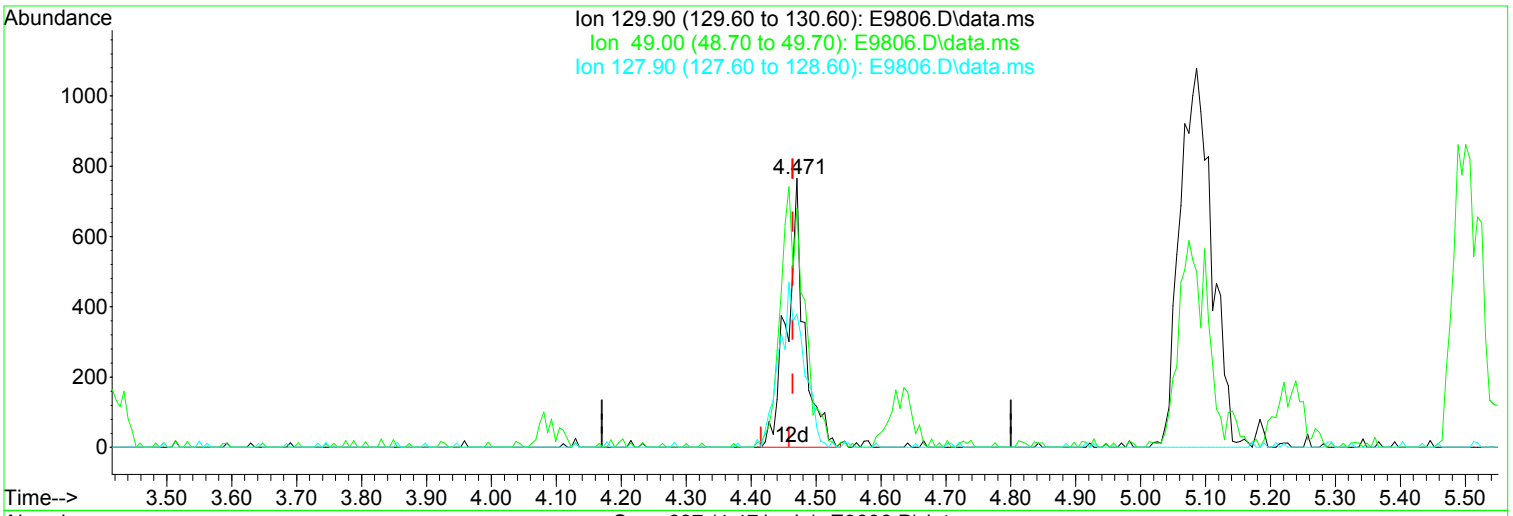
Before

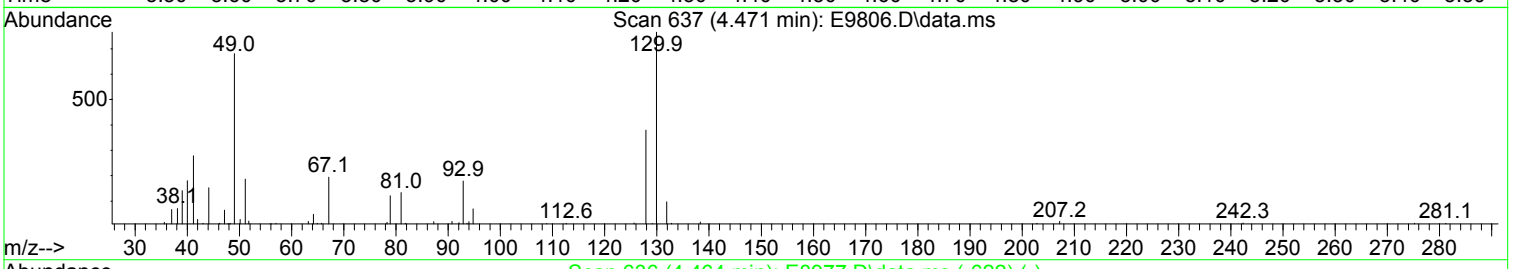
02/16/24

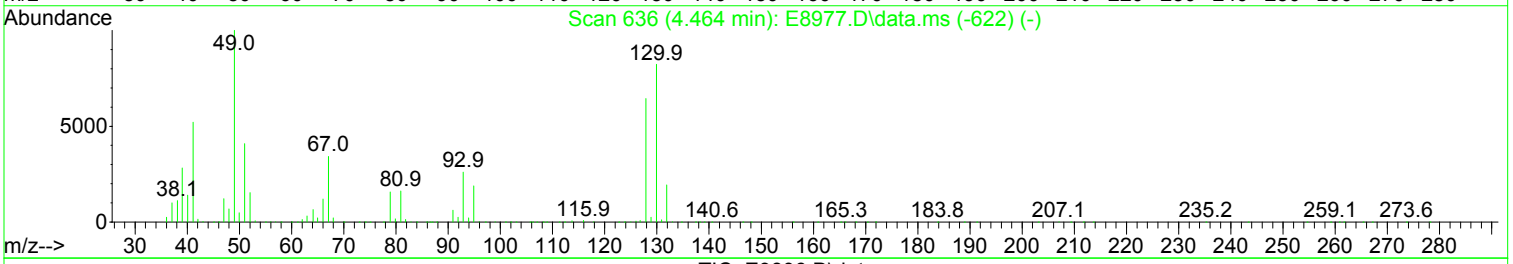
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9806.D\data.ms

(37) Bromochloromethane

4.471min (+ 0.006) 0.44 ug/L m

response 1440

Ion	Exp%	Act%
129.90	100.00	100.00
49.00	121.60	88.89#
127.90	78.30	49.54#
0.00	0.00	0.00

Manual Integration:

After

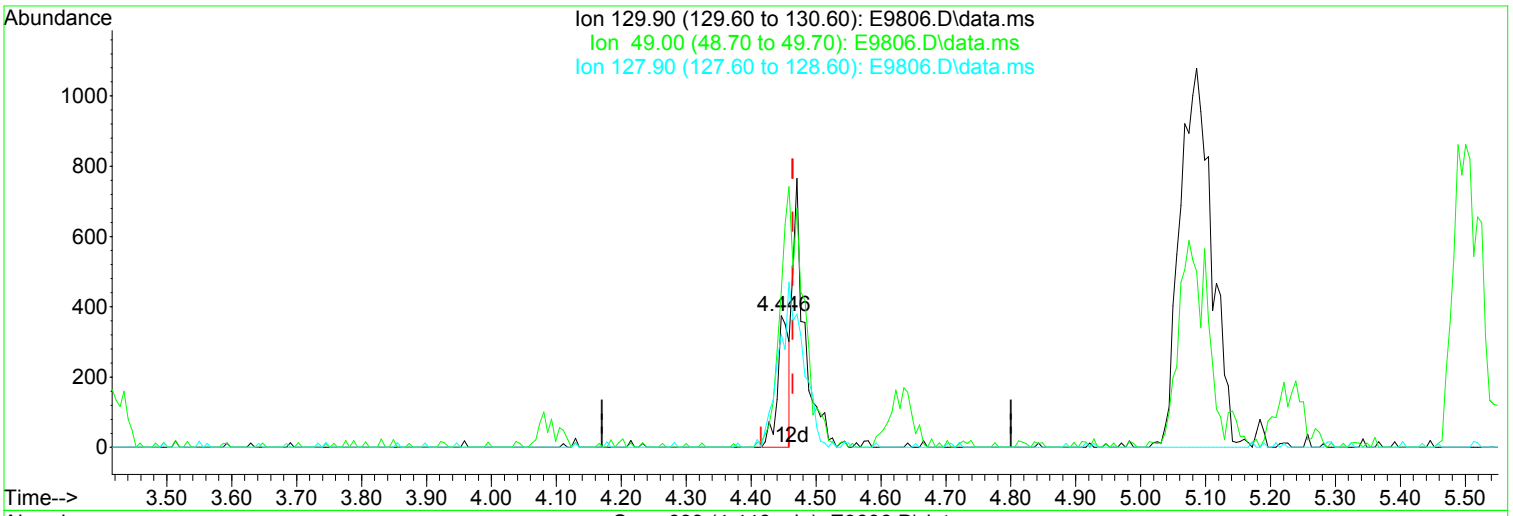
Split Peak.

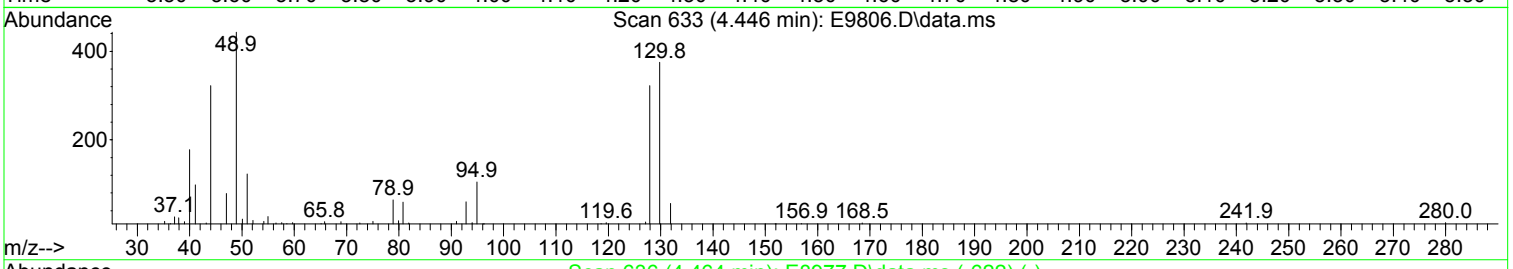
02/16/24

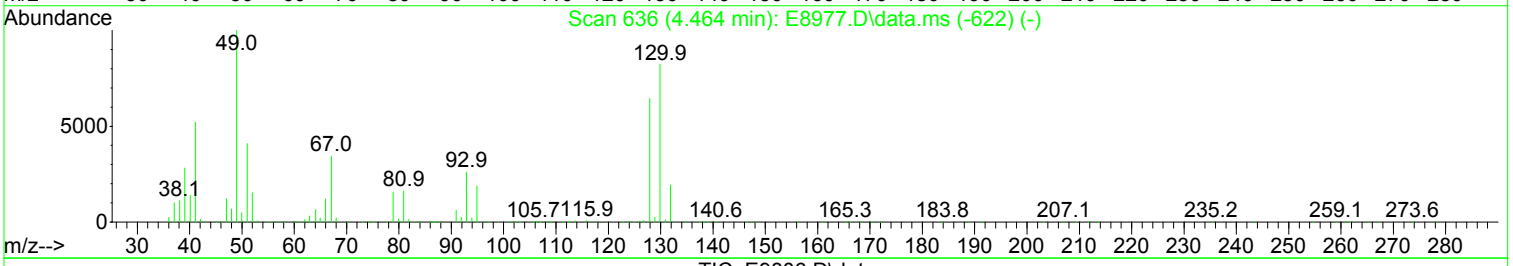
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9806.D\data.ms

(37) Bromochloromethane

4.446min (-0.018) 0.14 ug/L

response 471

Ion	Exp%	Act%
129.90	100.00	100.00
49.00	121.60	118.13
127.90	78.30	85.87
0.00	0.00	0.00

Manual Integration:

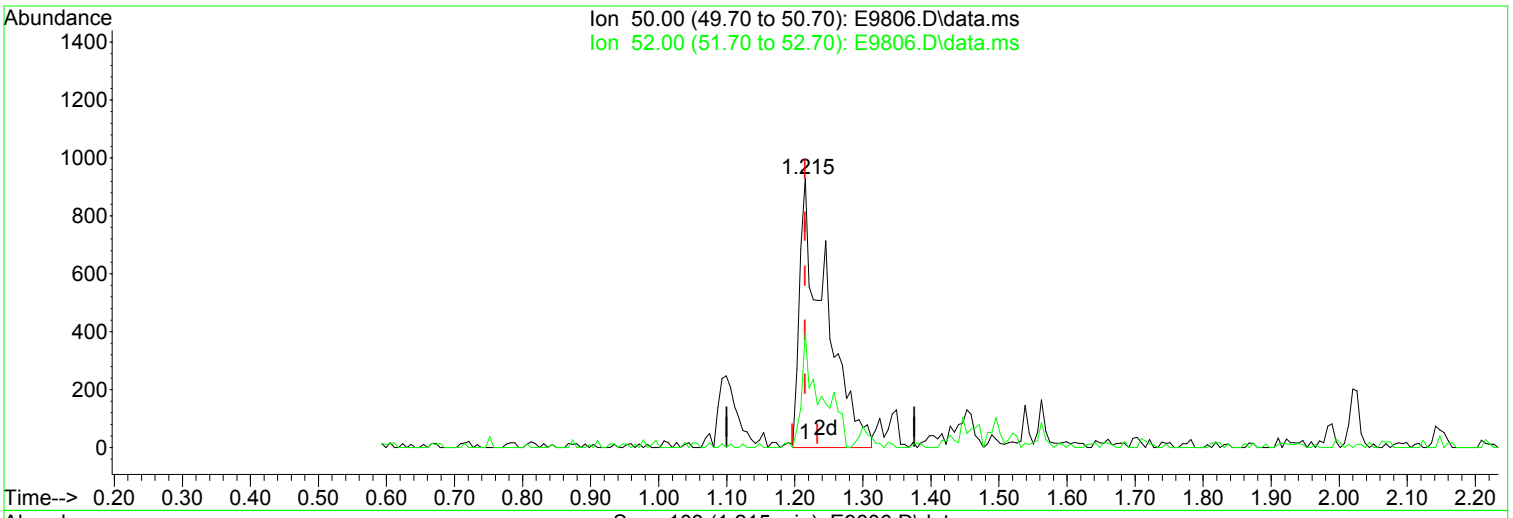
Before

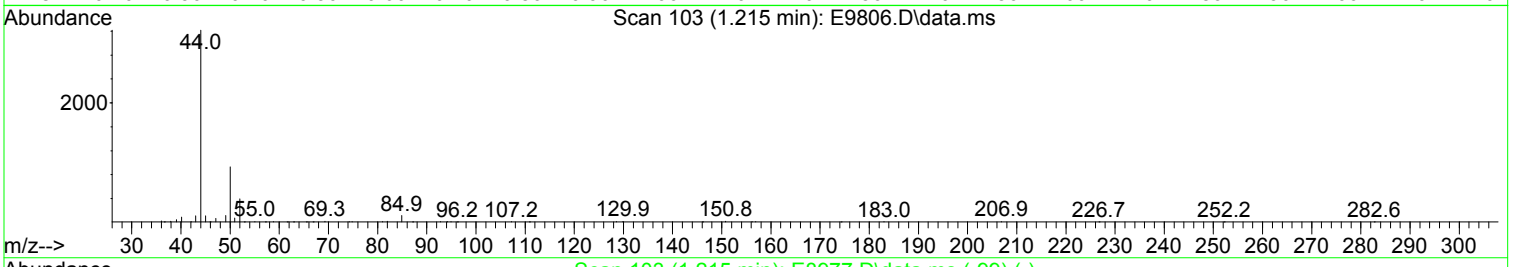
02/16/24

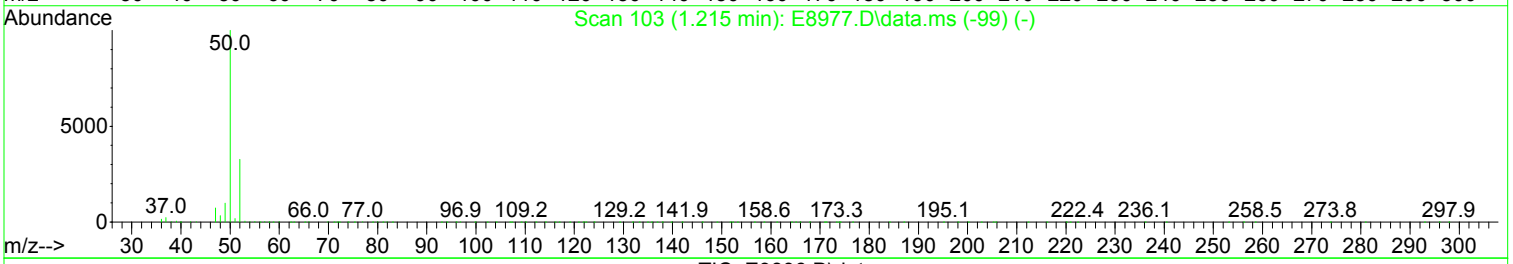
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9806.D\data.ms

(4) Chloromethane (P)

1.215min (+ 0.000) 0.47 ug/L m

response 2455

Ion	Exp%	Act%
50.00	100.00	100.00
52.00	32.80	42.84
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

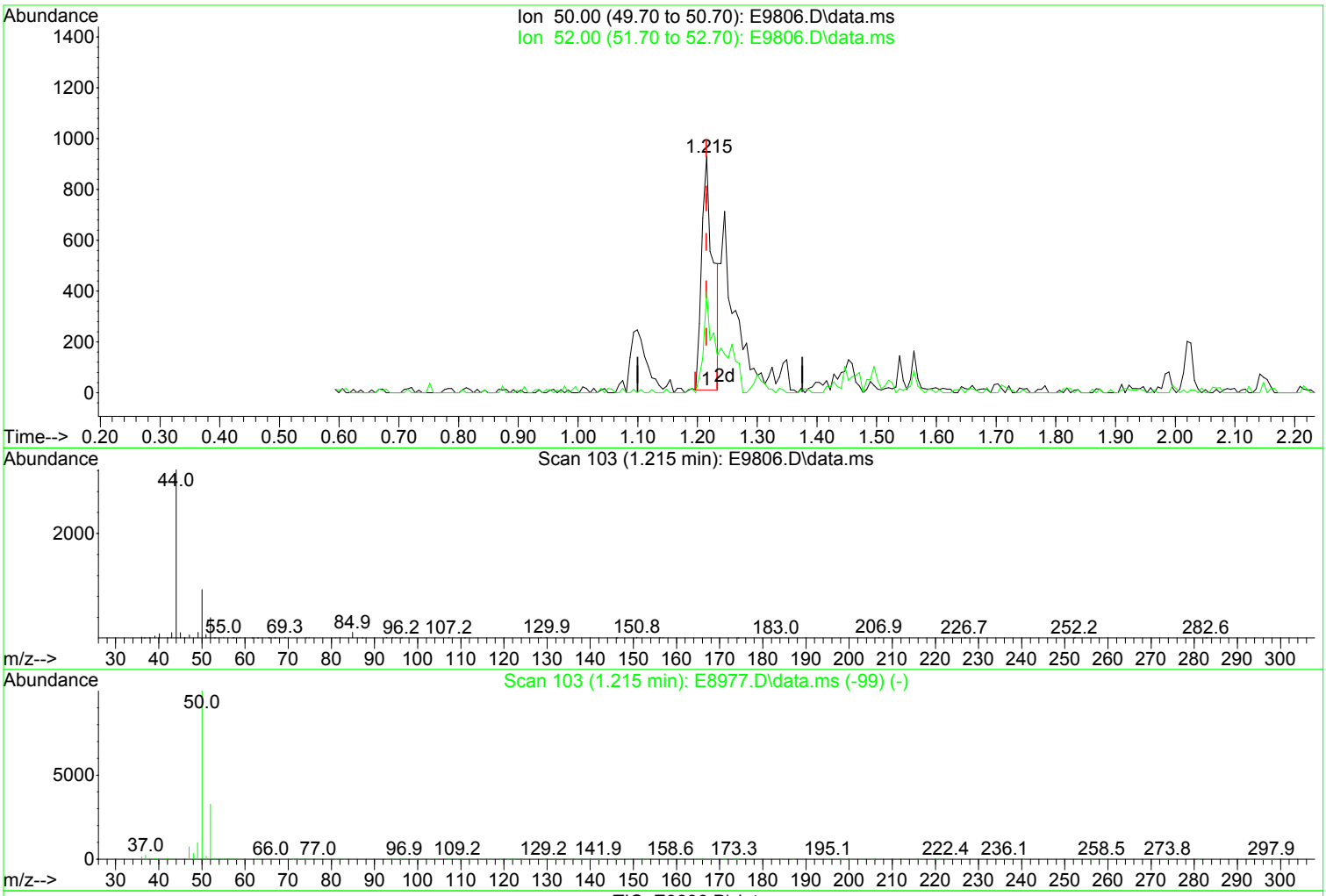
Split Peak.

02/16/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration



TIC: E9806.D\data.ms

(4) Chloromethane (P)

1.215min (+ 0.000) 0.24 ug/L

response 1242

Ion	Exp%	Act%
50.00	100.00	100.00
52.00	32.80	42.84
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

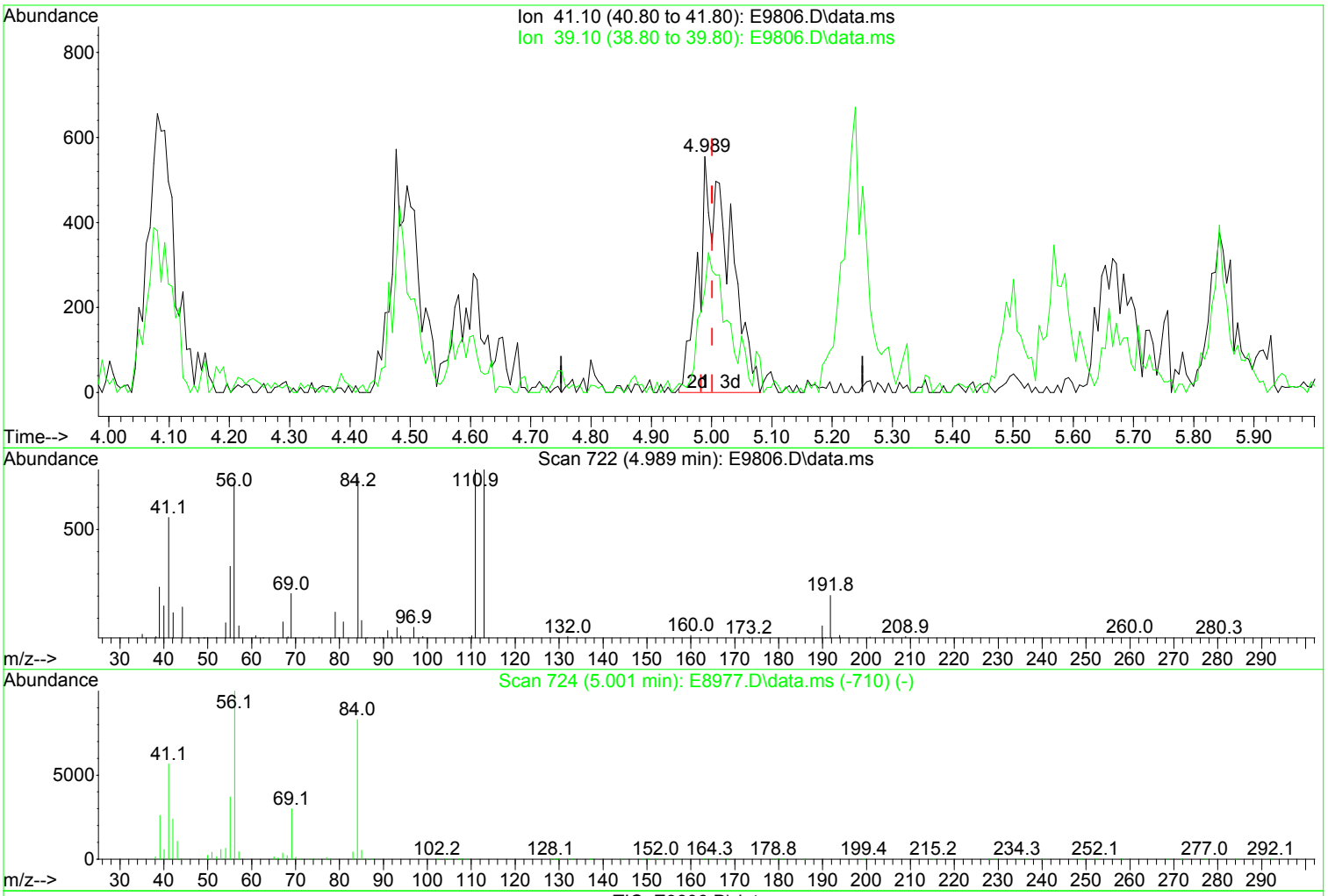
Before

02/16/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration



TIC: E9806.D\data.ms

(44) Cyclohexane (P)

4.989min (-0.012) 0.49 ug/L m

response 2004

Ion	Exp%	Act%
41.10	100.00	100.00
39.10	46.60	43.42
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak.

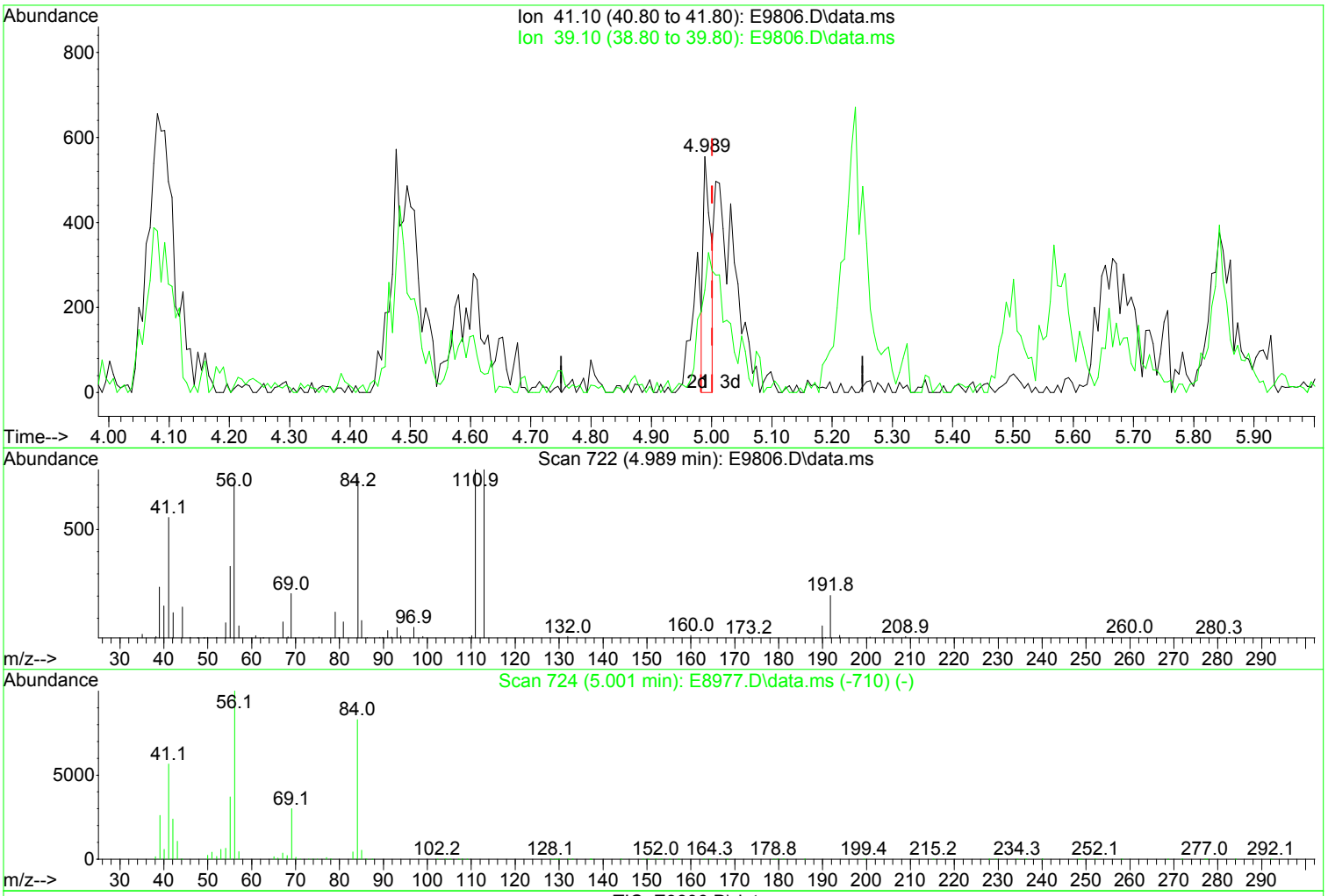
02/16/24

1st 02/16/24
2nd 02/16/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration



TIC: E9806.D\data.ms

(44) Cyclohexane (P)

4.989min (-0.012) 0.12 ug/L

response 485

Ion	Exp%	Act%
41.10	100.00	100.00
39.10	46.60	43.42
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

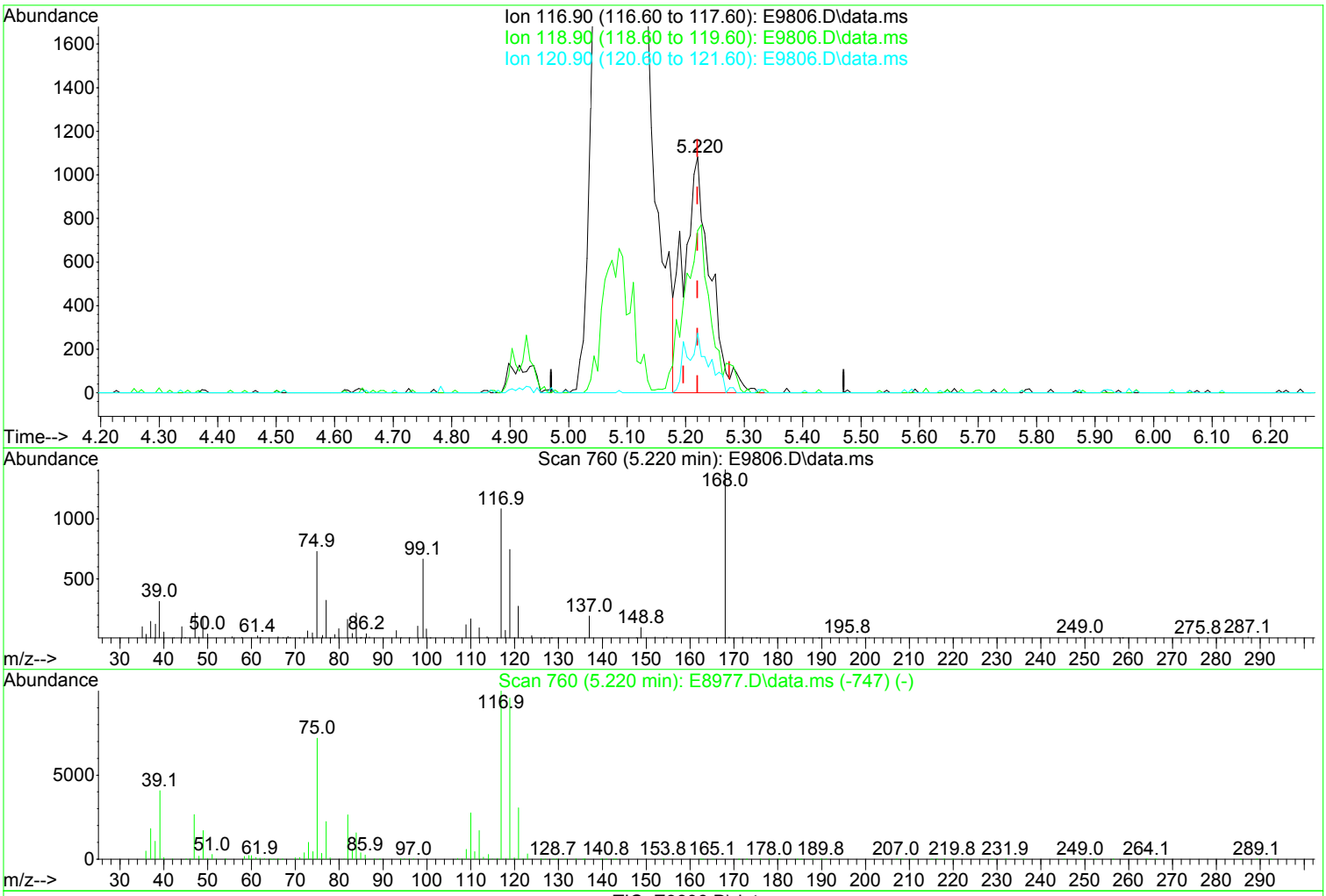
Before

02/16/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration



TIC: E9806.D\data.ms

(46) Carbontetrachloride (P)

5.220min (+ 0.000) 0.55 ug/L m

response 3390

Ion	Exp%	Act%
116.90	100.00	100.00
118.90	94.80	68.79#
120.90	30.20	25.21
0.00	0.00	0.00

Manual Integration:

After

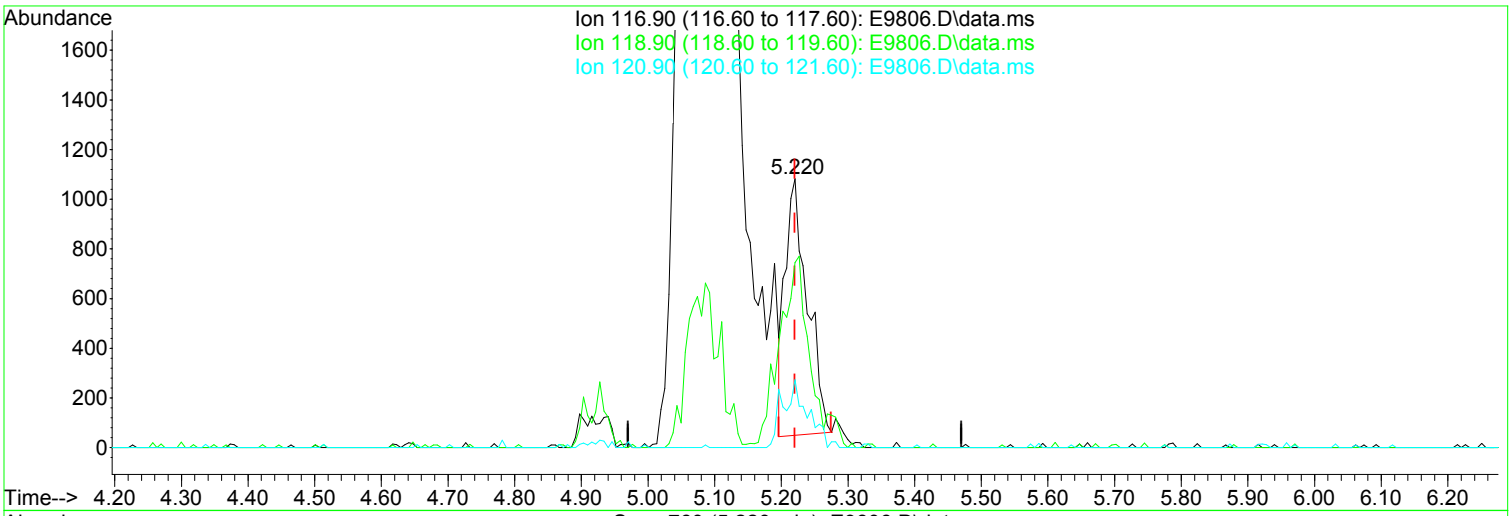
Split Peak.

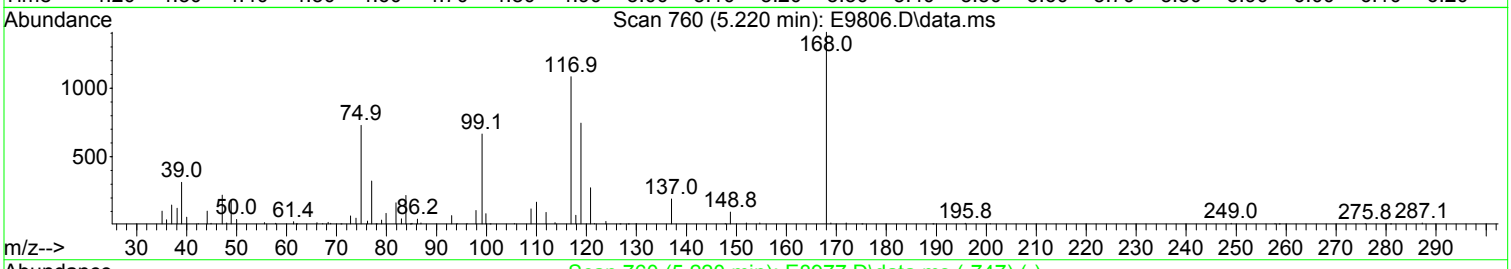
02/16/24

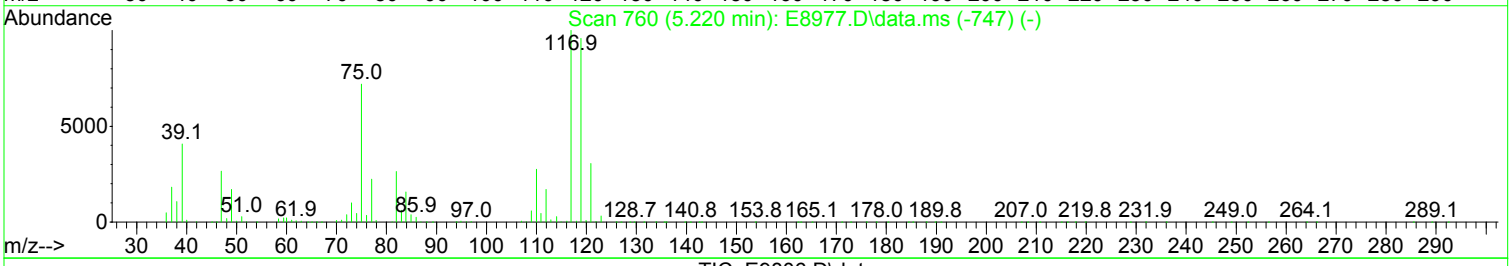
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9806.D\data.ms

(46) Carbontetrachloride (P)

5.220min (+ 0.000) 0.39 ug/L

response 2376

Ion	Exp%	Act%
116.90	100.00	100.00
118.90	94.80	68.79#
120.90	30.20	26.32
0.00	0.00	0.00

Manual Integration:

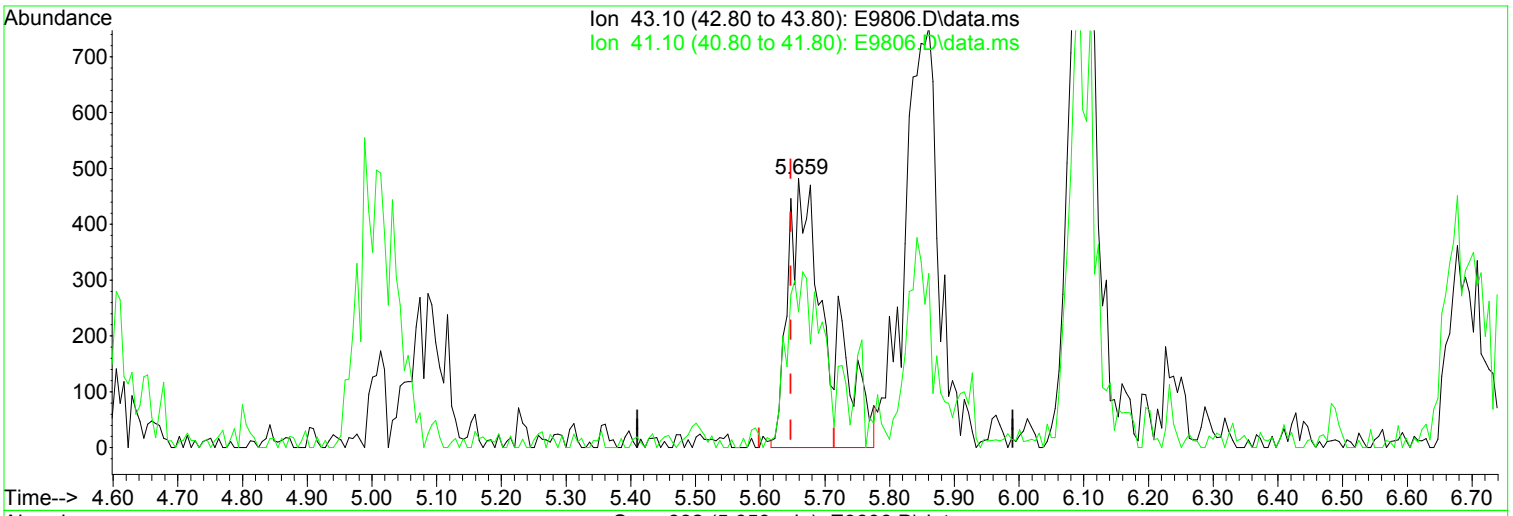
Before

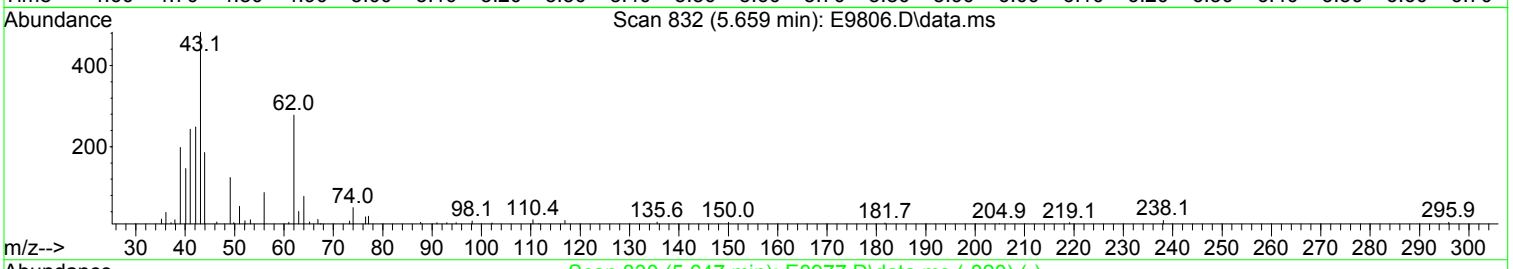
02/16/24

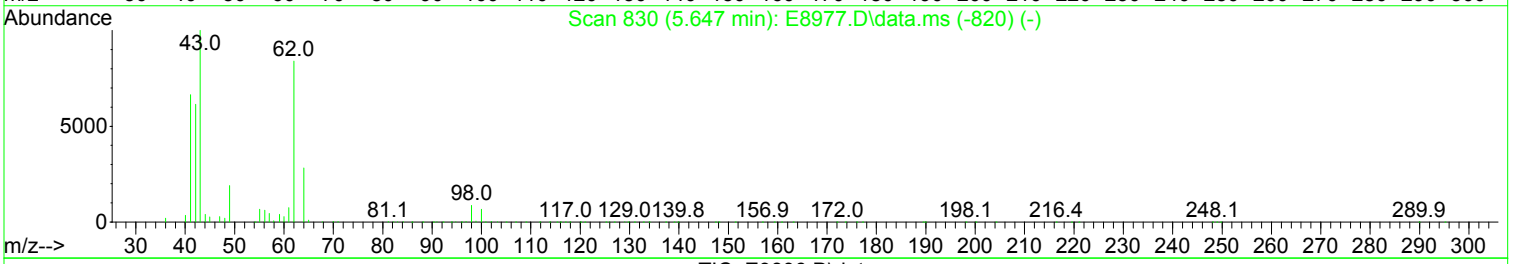
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9806.D\data.ms

(51) Iso-Butyl Alcohol

5.659min (+ 0.012) 11.26 ug/L m

response 2039

Ion	Exp%	Act%
43.10	100.00	100.00
41.10	66.90	50.41
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

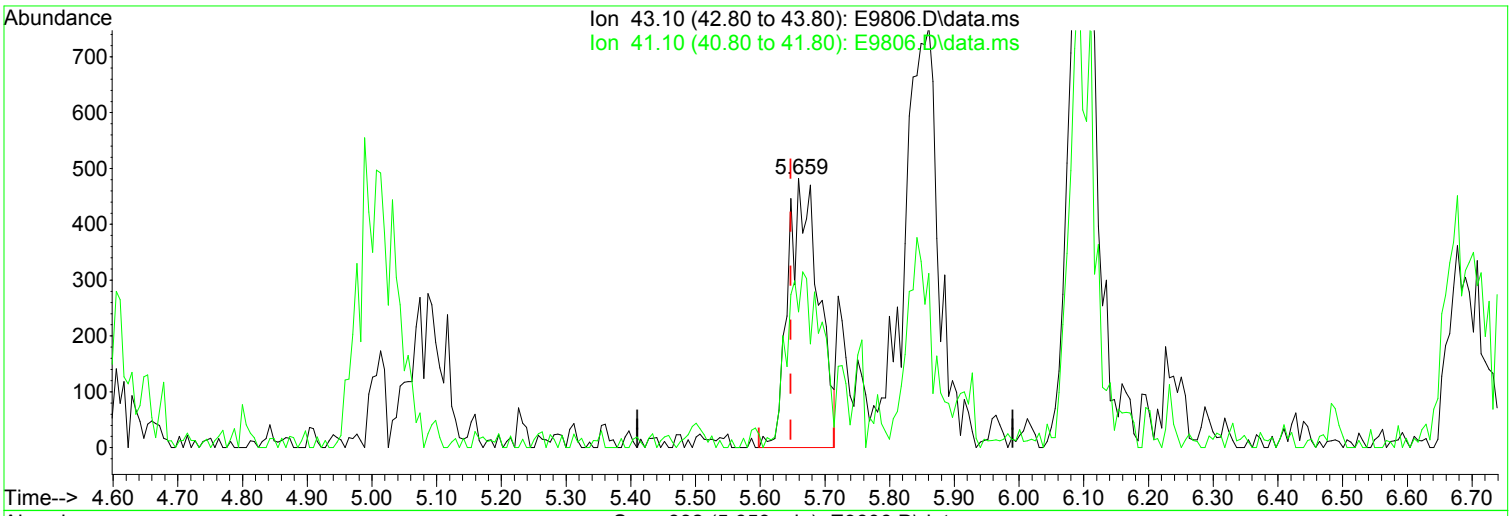
Poor integration.

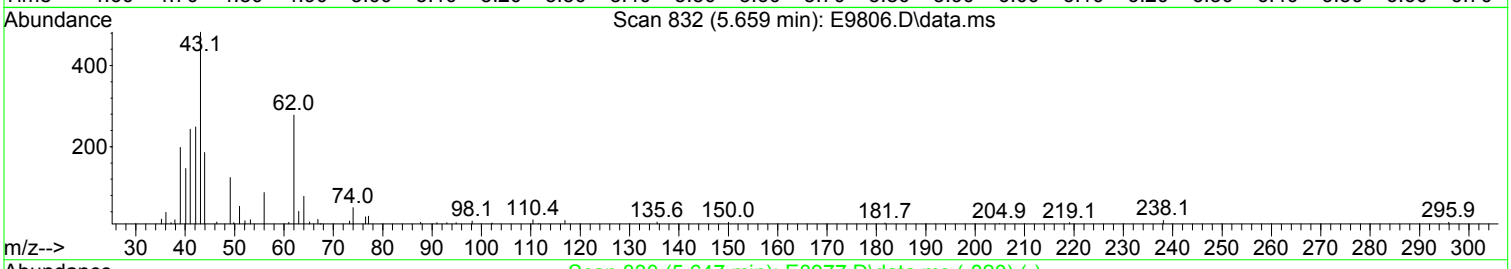
02/16/24

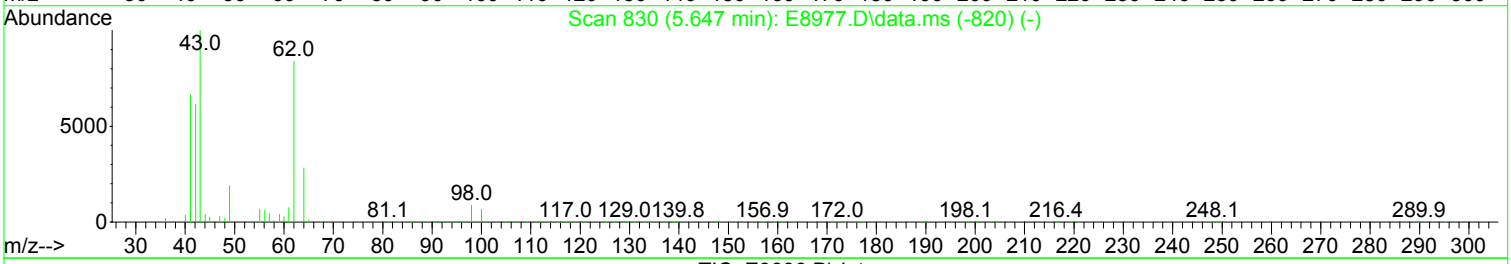
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9806.D\data.ms

(51) Iso-Butyl Alcohol

5.659min (+ 0.012) 8.66 ug/L

response 1569

Ion	Exp%	Act%
43.10	100.00	100.00
41.10	66.90	50.41
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

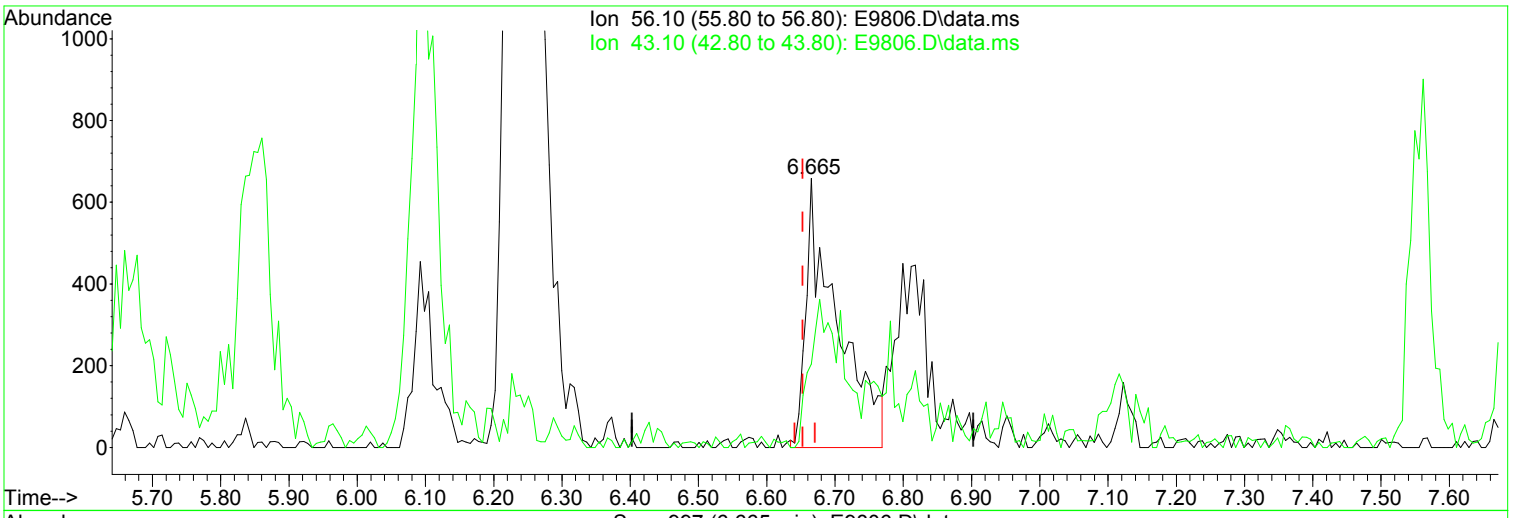
Before

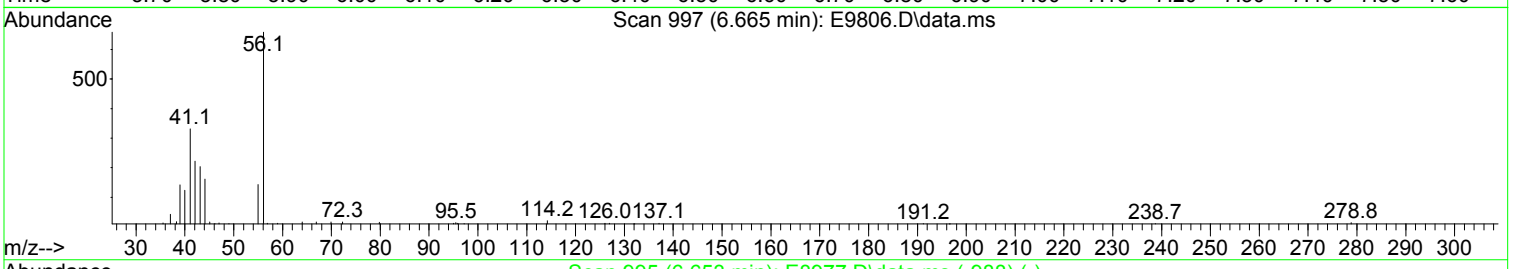
02/16/24

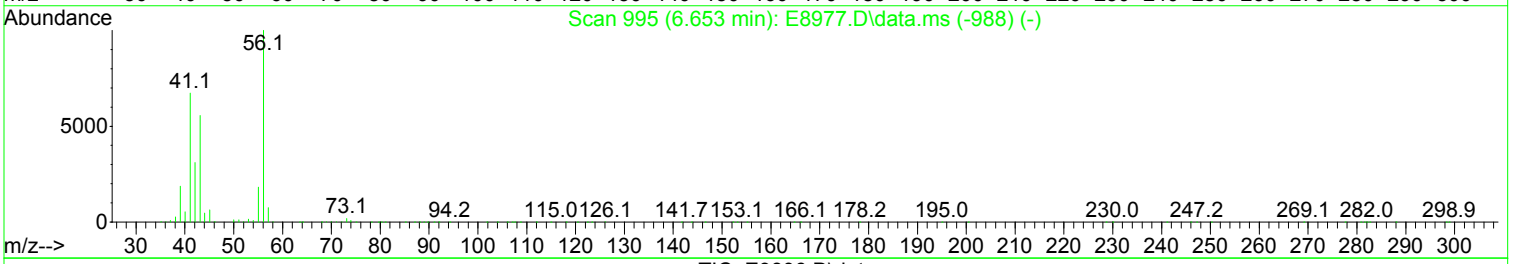
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9806.D\data.ms

(53) 1-Butanol

6.665min (+ 0.012) 20.20 ug/L m

response 2094

Ion	Exp%	Act%
56.10	100.00	100.00
43.10	56.50	31.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

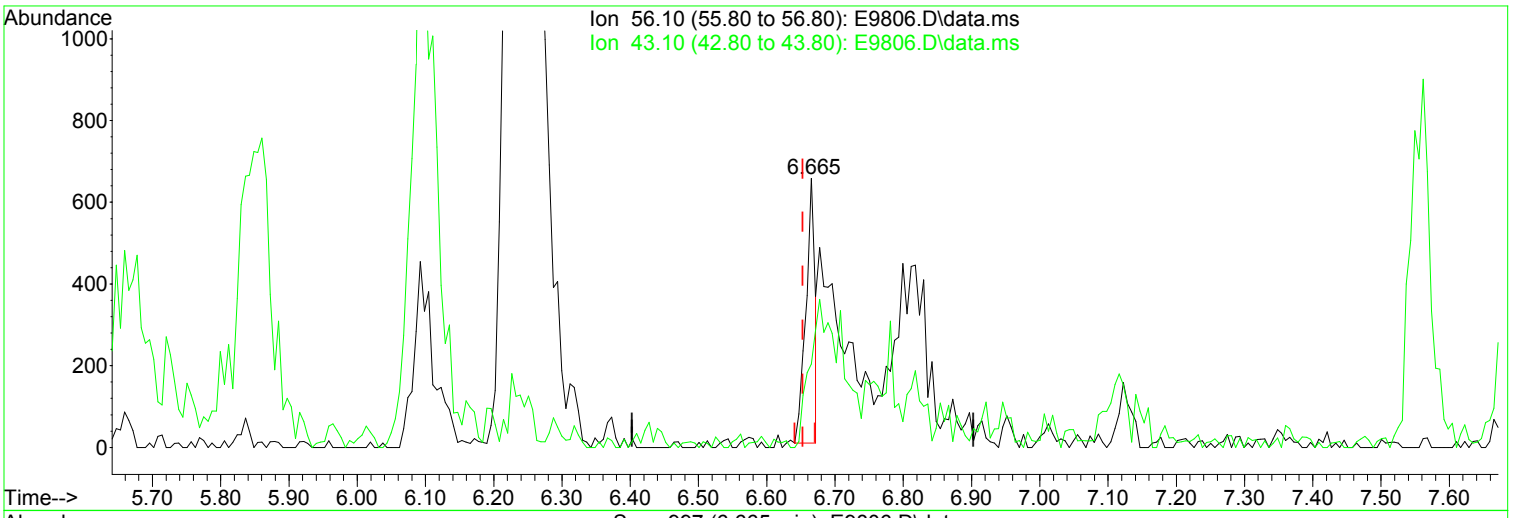
Split Peak.

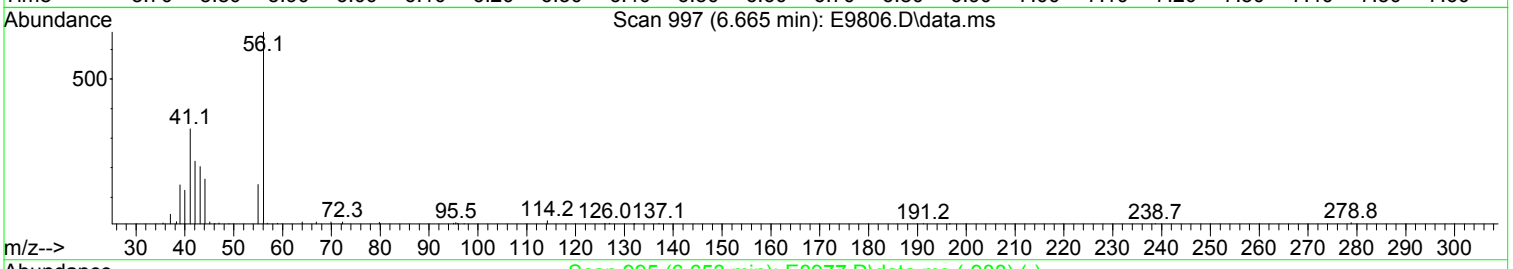
02/16/24

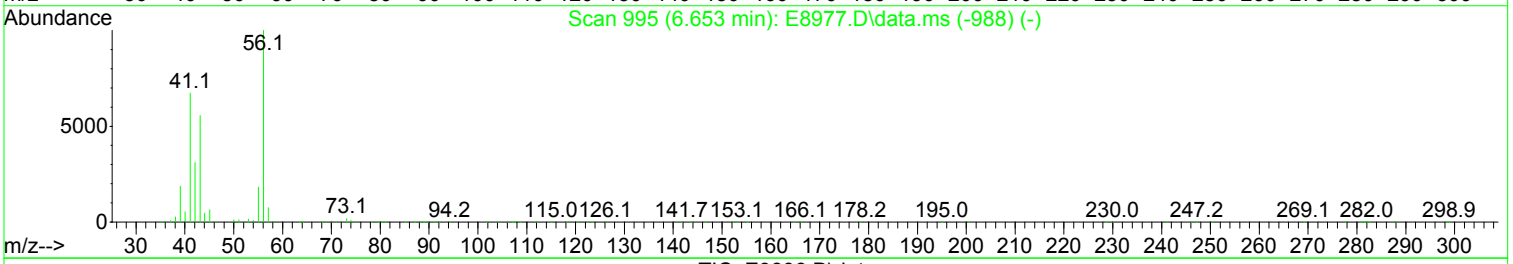
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9806.D\data.ms

(53) 1-Butanol

6.665min (+ 0.012) 5.87 ug/L

response 608

Ion	Exp%	Act%
56.10	100.00	100.00
43.10	56.50	31.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

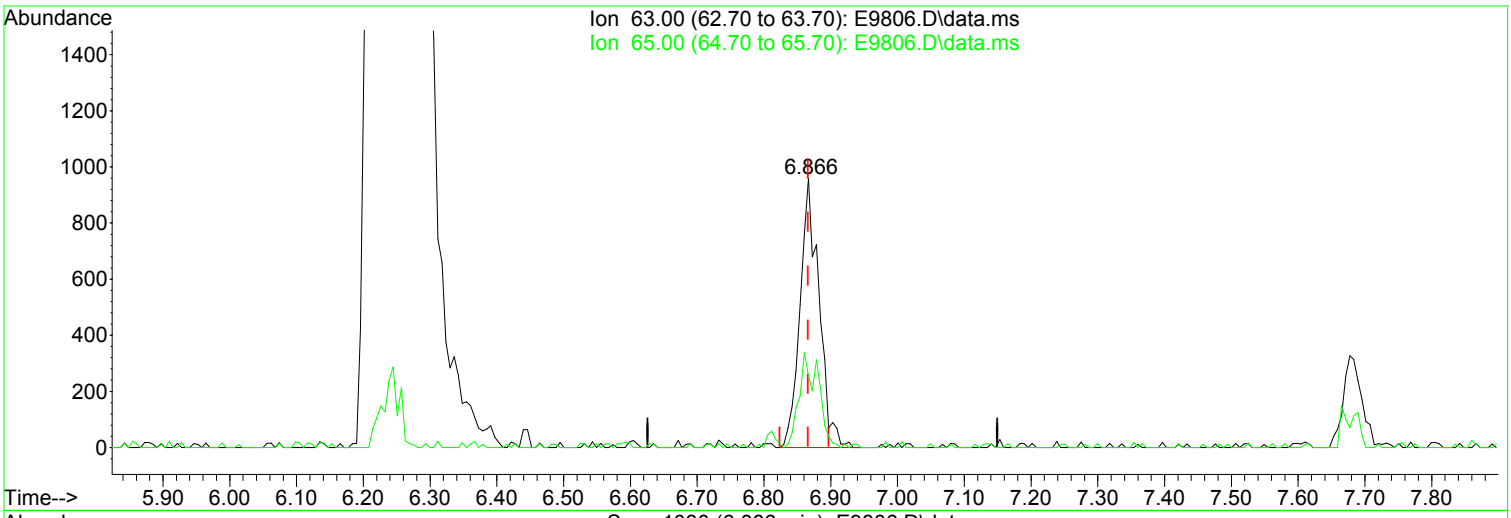
02/16/24

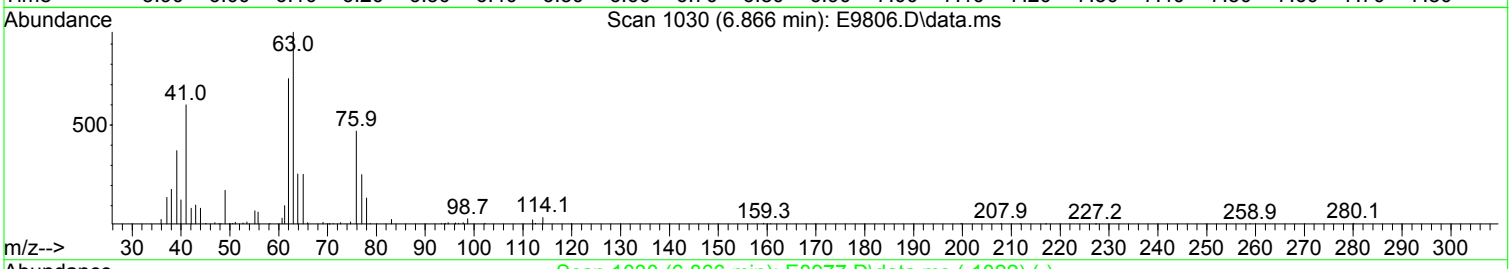
1st 02/16/24
2nd 02/16/24

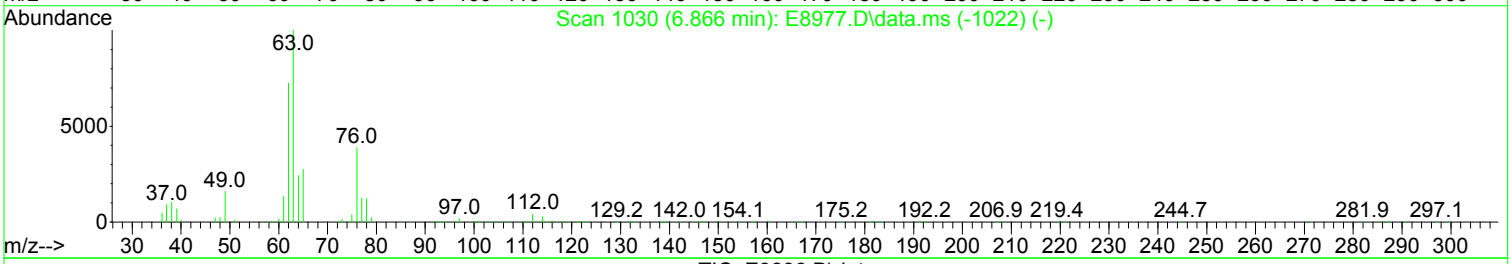
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9806.D\data.ms

(56) 1,2-Diclpropane (P)

6.866min (+ 0.000) 0.43 ug/L m

response 1888

Ion	Exp%	Act%
63.00	100.00	100.00
65.00	30.00	26.69
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

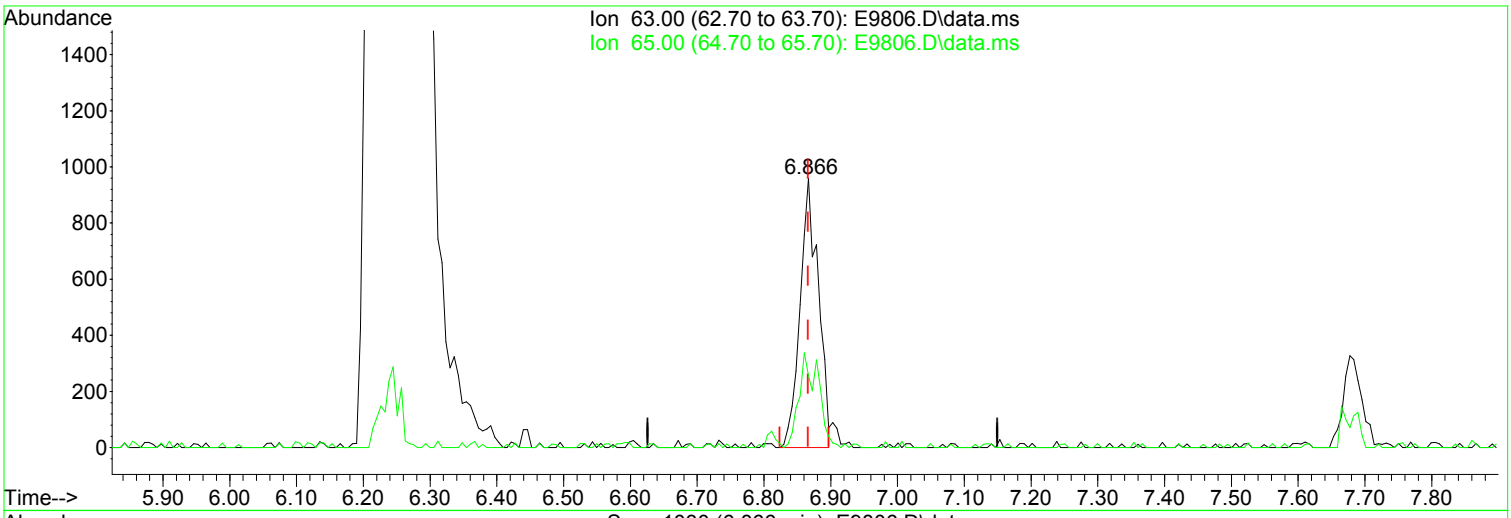
Poor integration.

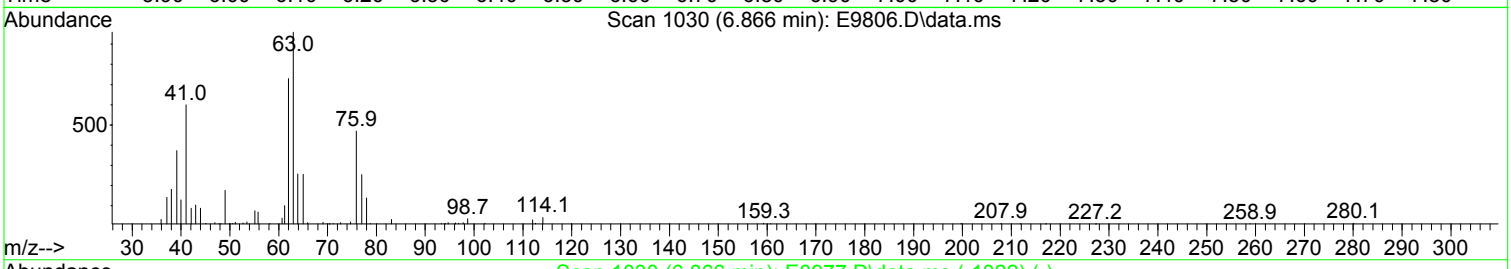
02/16/24

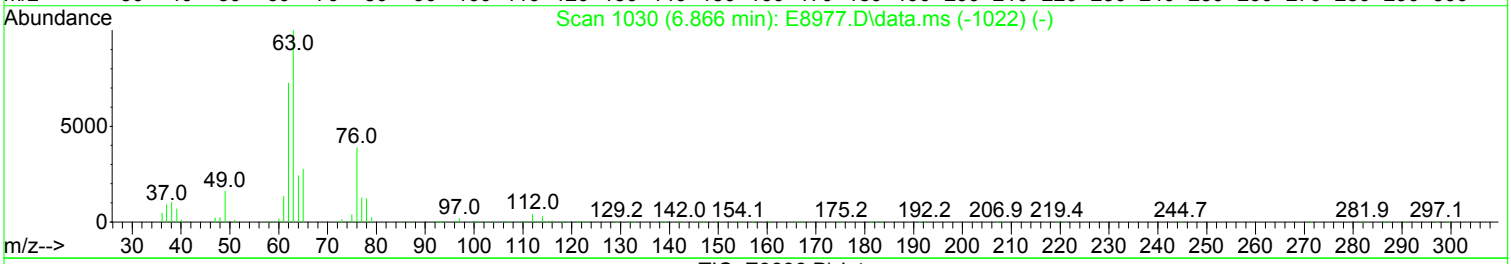
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9806.D\data.ms

(56) 1,2-Diclpropane (P)

6.866min (+ 0.000) 0.41 ug/L

response 1815

Ion	Exp%	Act%
63.00	100.00	100.00
65.00	30.00	26.69
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

02/16/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
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Acq On : 15 Feb 2024 12:47 pm
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Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

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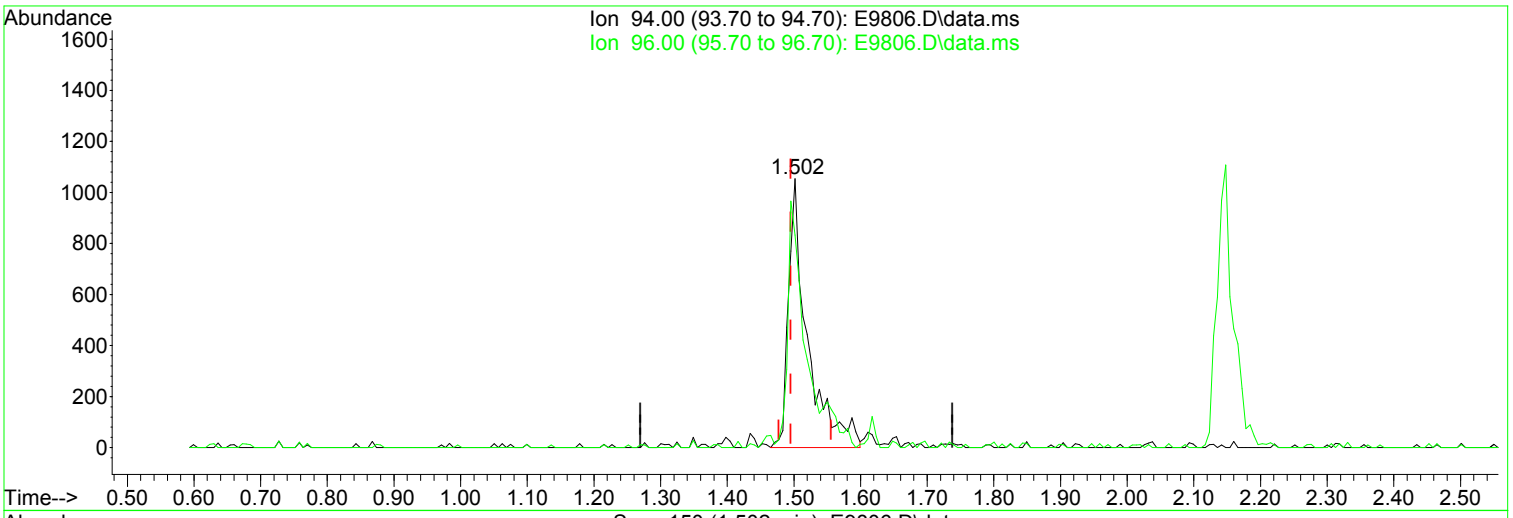
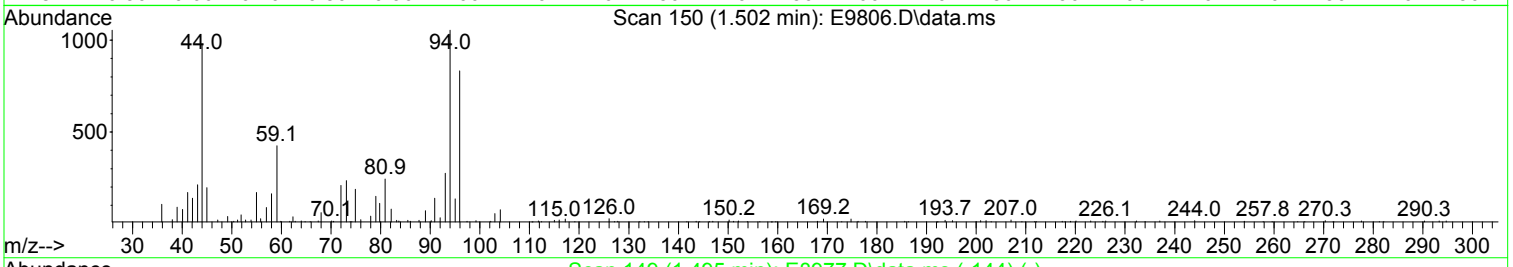
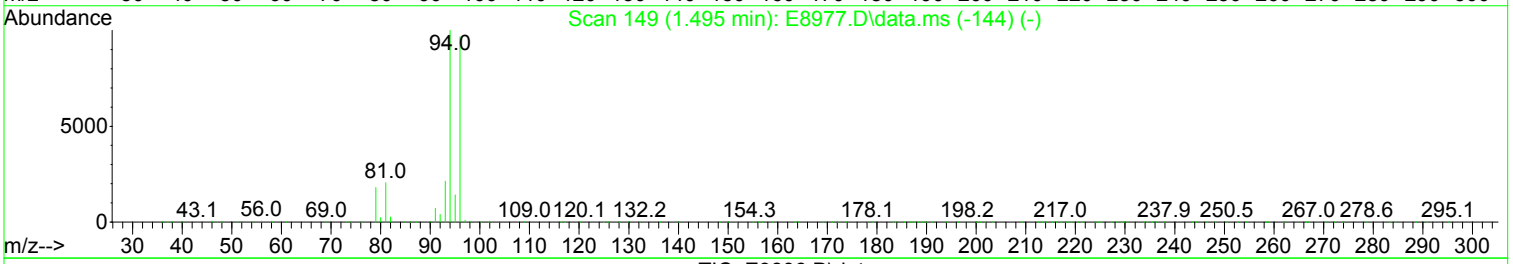
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9806.D\data.ms

(6) Bromomethane (P)

1.502min (+ 0.007) 0.74 ug/L m

response 2089

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	96.90	79.03
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

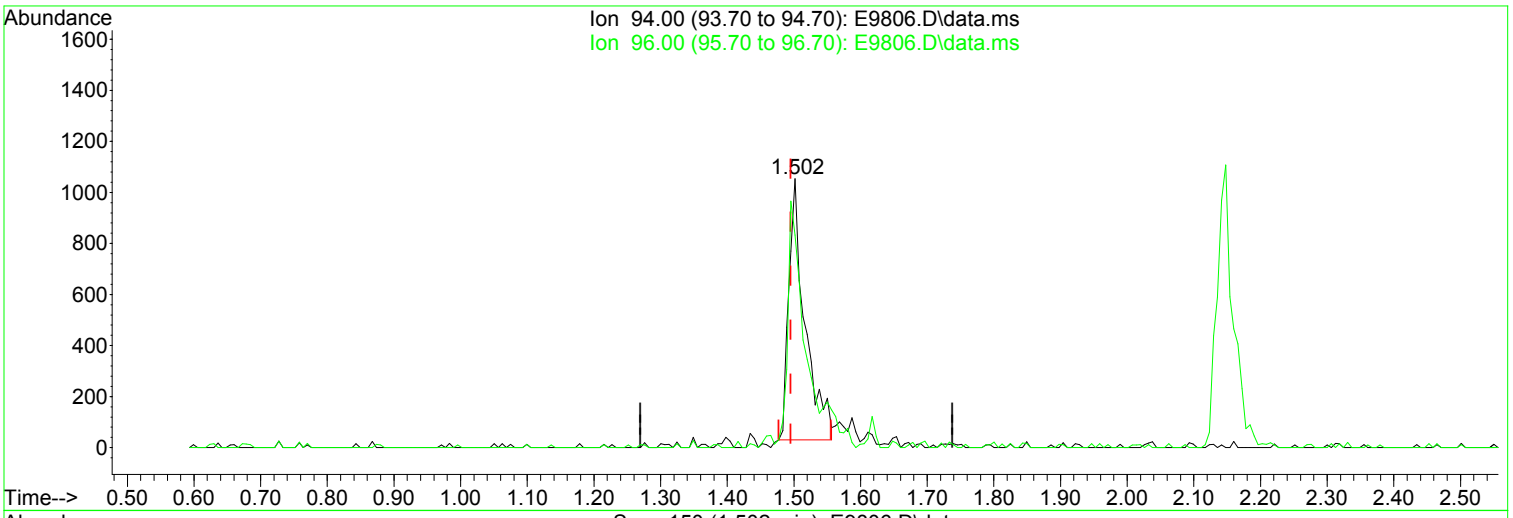
Poor integration.

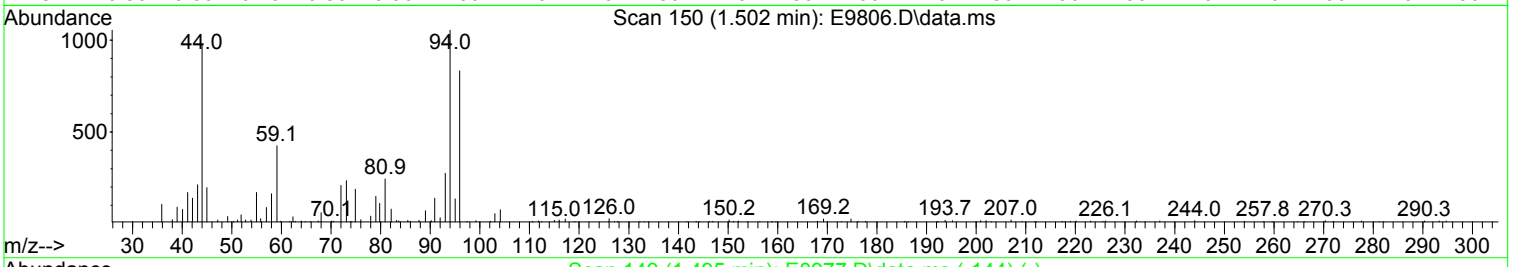
02/16/24

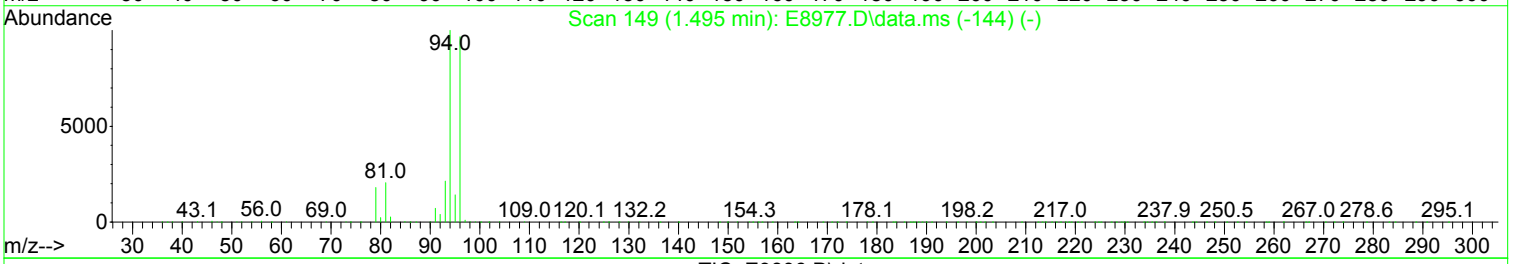
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9806.D\data.ms

(6) Bromomethane (P)

1.502min (+ 0.007) 0.61 ug/L

response 1727

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	96.90	79.03
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

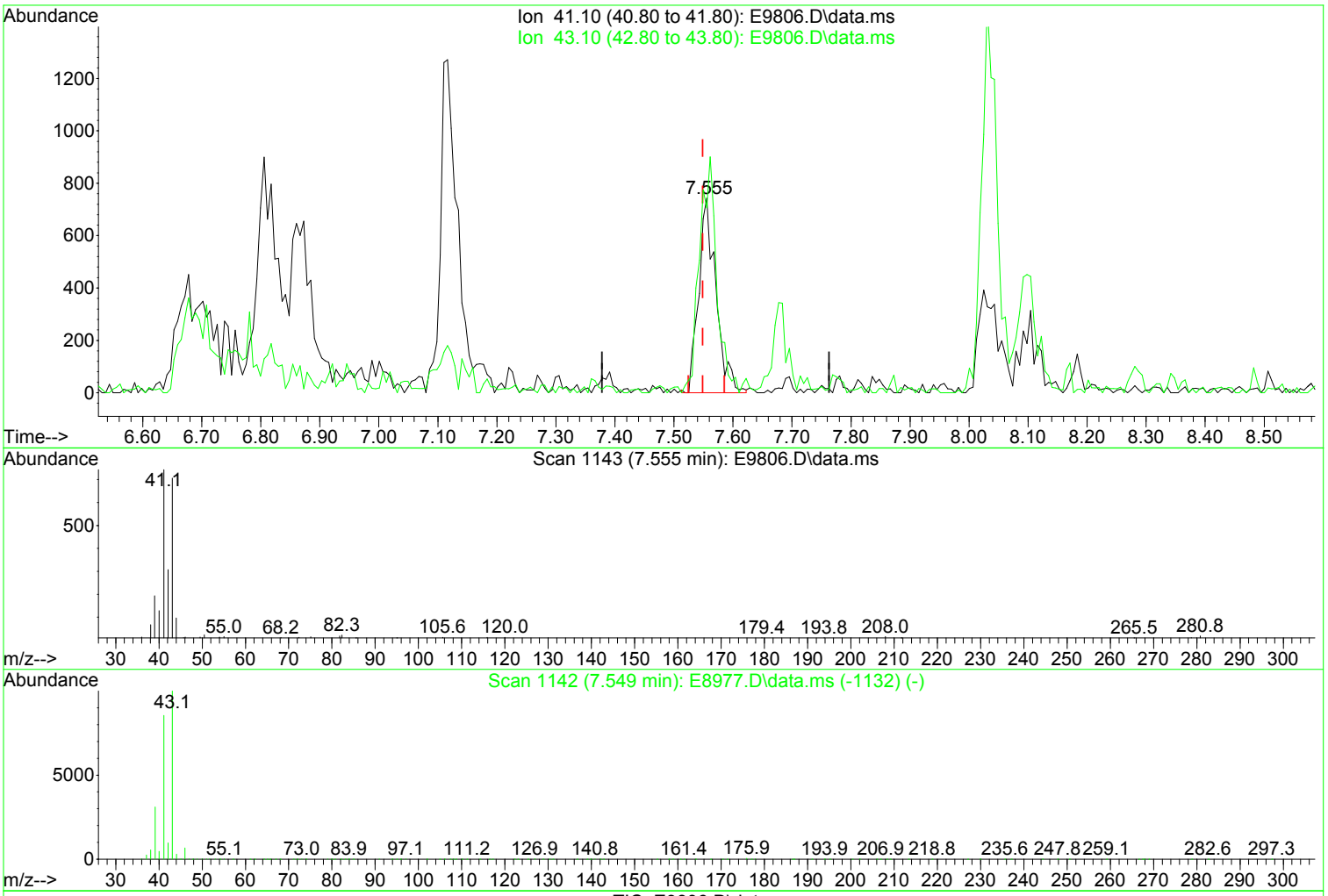
Before

02/16/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration



TIC: E9806.D\data.ms

(61) 2-Nitropropane

7.555min (+ 0.006) 1.00 ug/L m

response 1514

Ion	Exp%	Act%
41.10	100.00	100.00
43.10	117.60	95.02#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

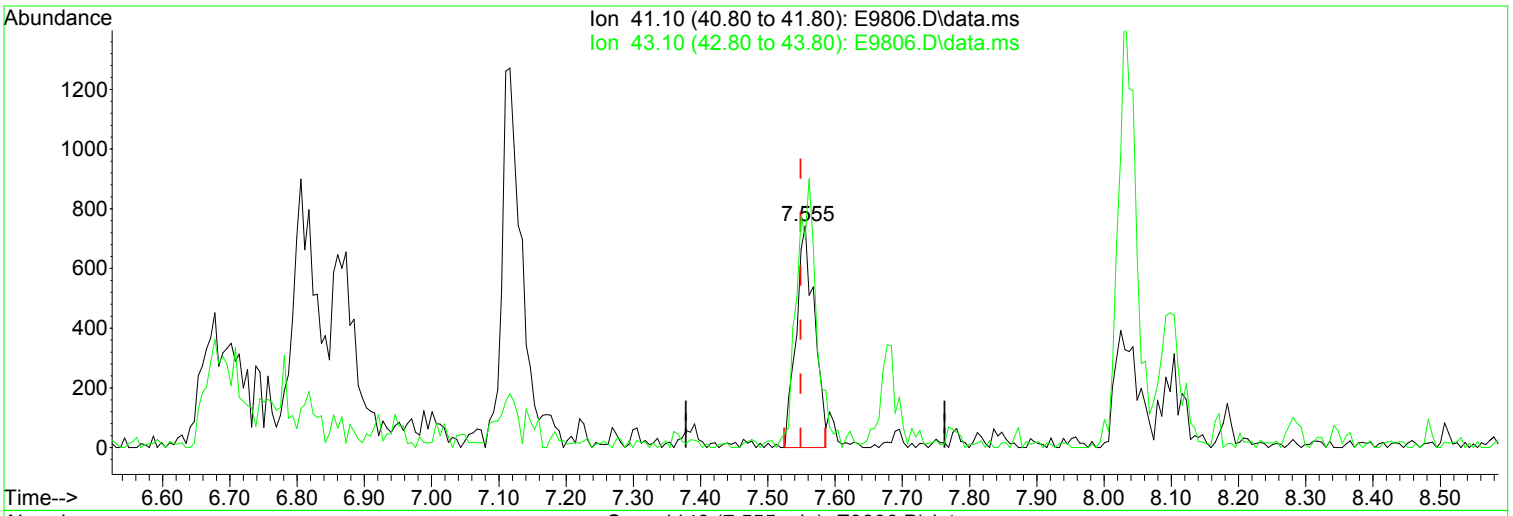
Poor integration.

02/16/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration



TIC: E9806.D\data.ms

(61) 2-Nitropropane

7.555min (+ 0.006) 0.93 ug/L

response 1416

Ion	Exp%	Act%
41.10	100.00	100.00
43.10	117.60	95.02#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

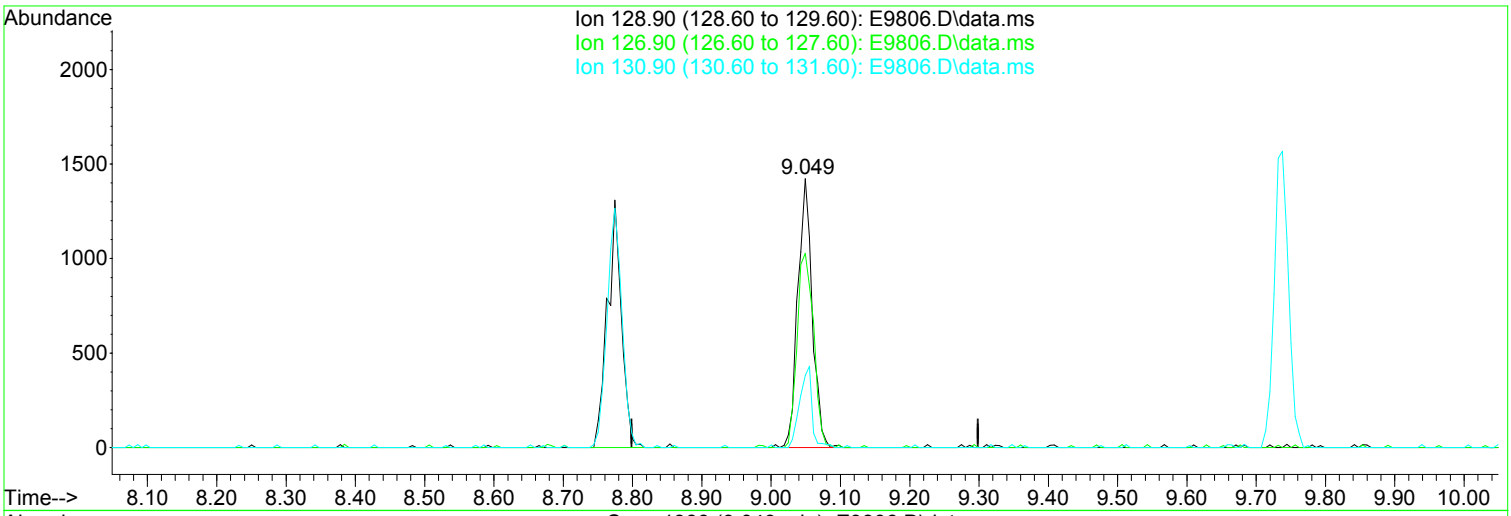
Before

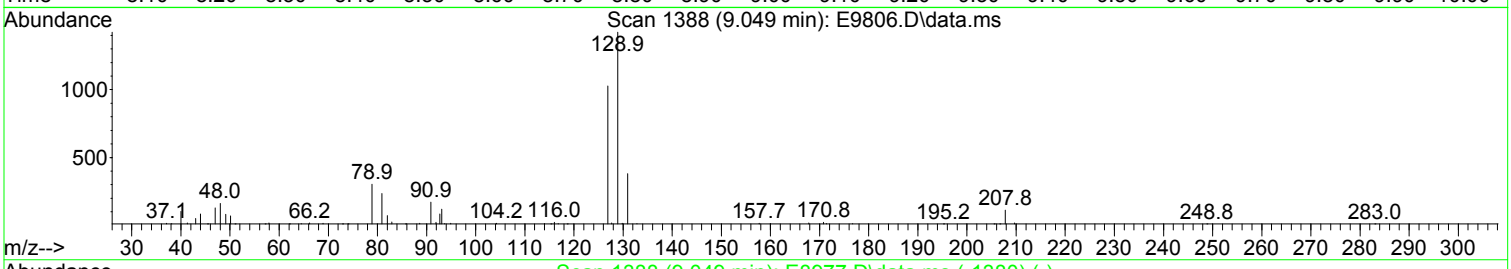
02/16/24

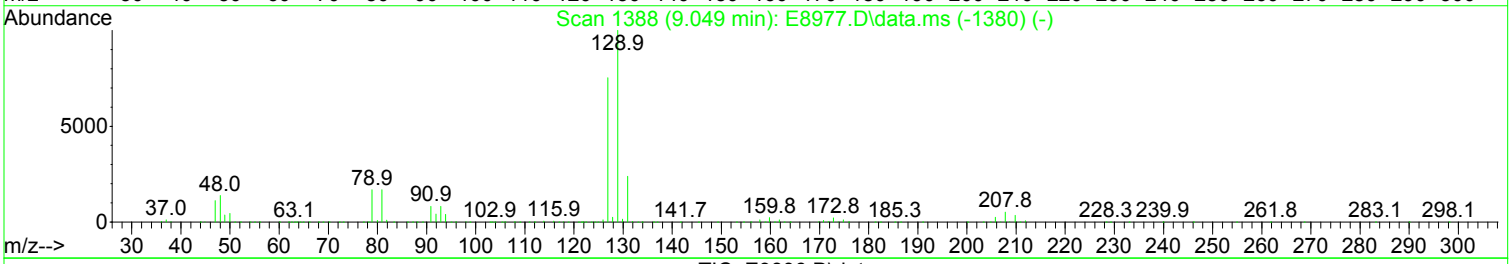
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9806.D\data.ms

(75) Dibromochloromethane (P)

9.049min (+ 0.000) 0.40 ug/L m

response 2056

Ion	Exp%	Act%
128.90	100.00	100.00
126.90	75.40	72.24
130.90	23.90	26.77
0.00	0.00	0.00

Manual Integration:

After

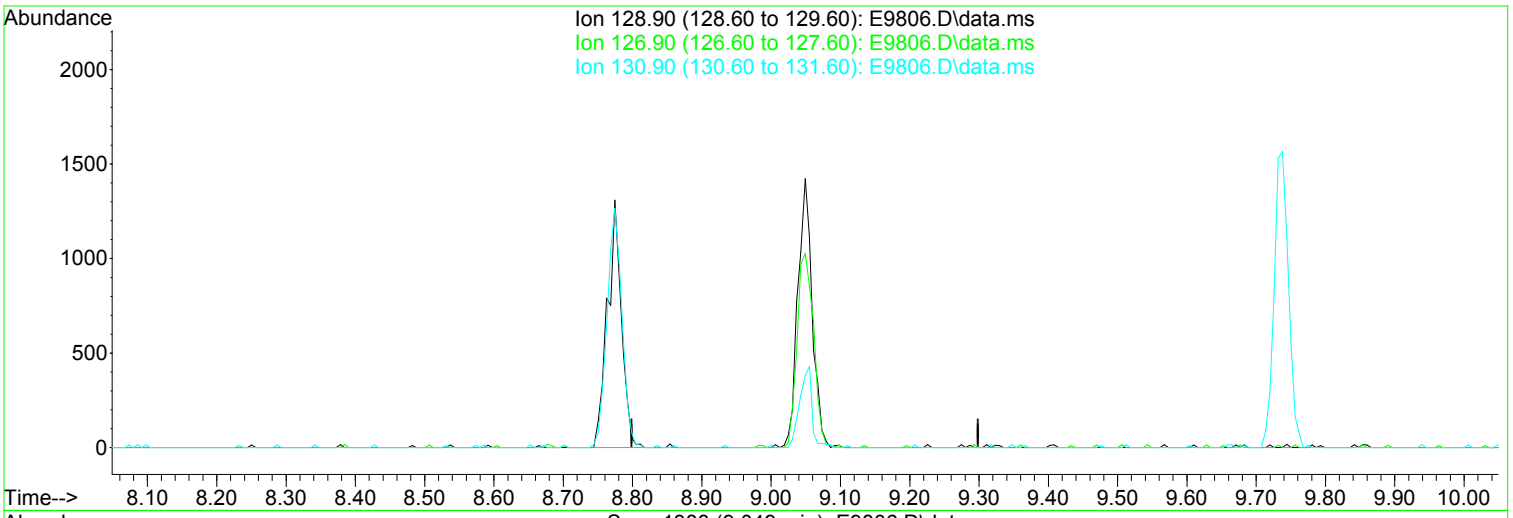
Peak not found.

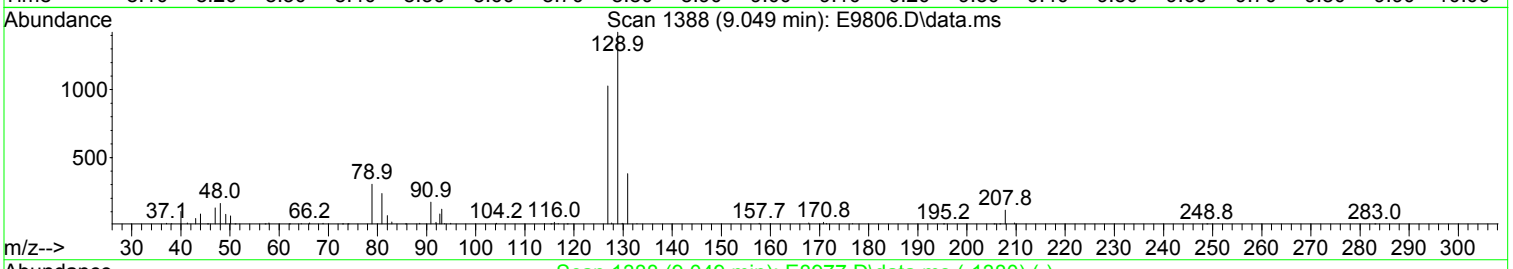
02/16/24

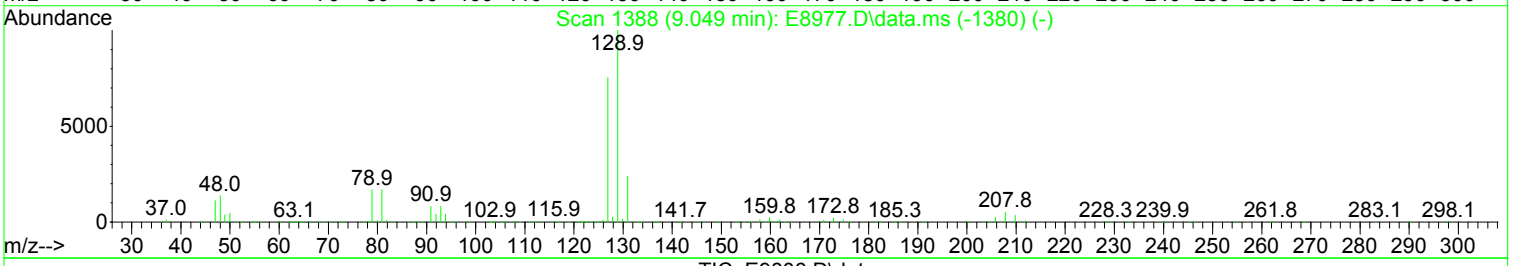
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9806.D\data.ms

(75) Dibromochloromethane (P)

9.049min (-9.049) 0.00 ug/L

response 0

Ion	Exp%	Act%
128.90	100.00	0.00
126.90	75.40	0.00#
130.90	23.90	0.00#
0.00	0.00	0.00

Manual Integration:

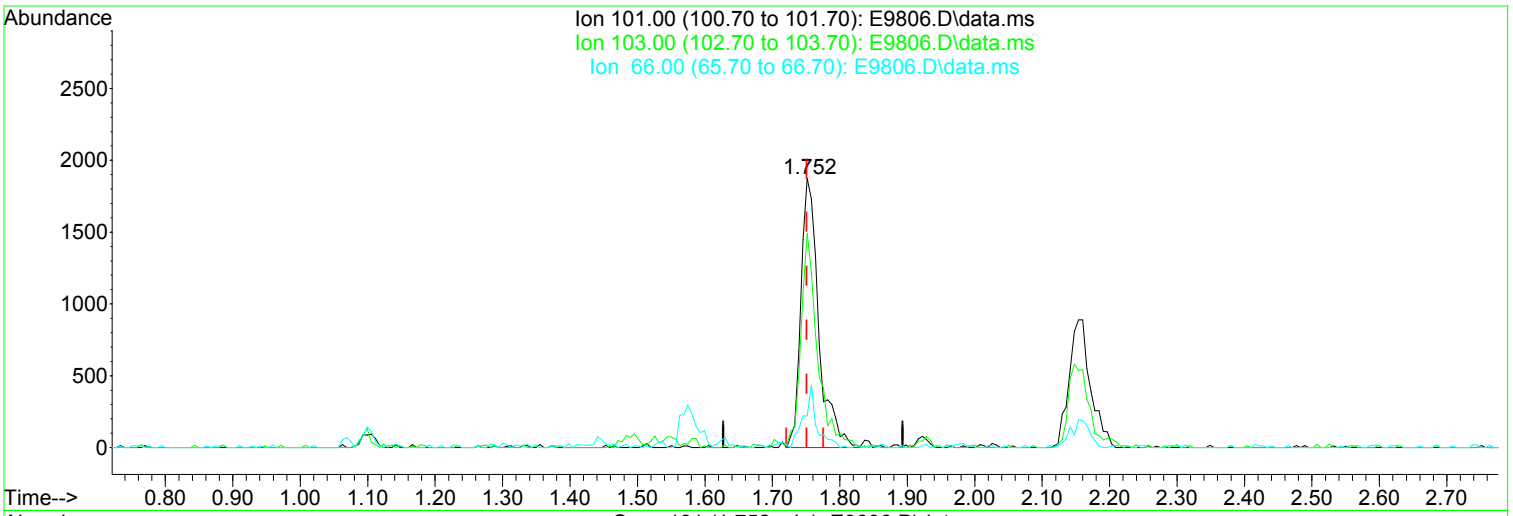
Before

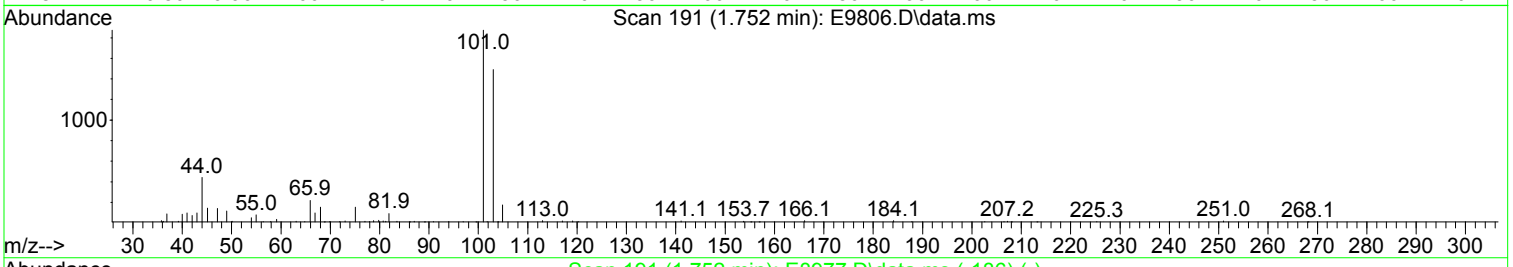
02/16/24

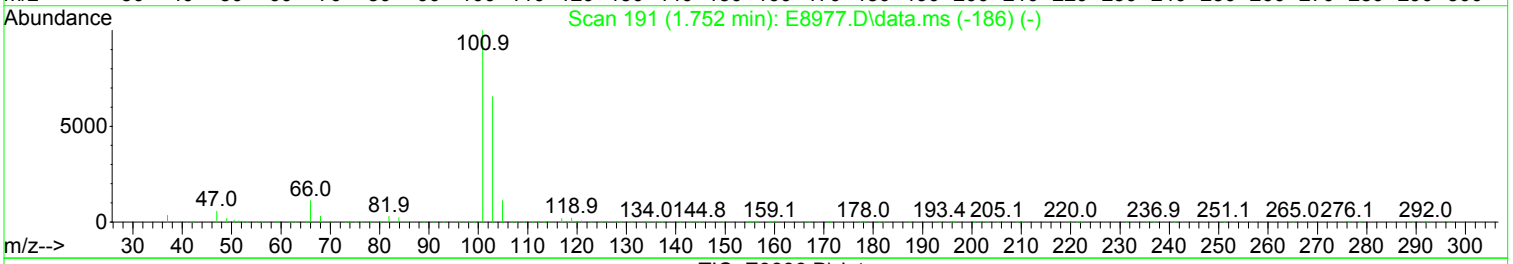
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9806.D\data.ms

(9) Trichlorofluoromethane (P)

1.752min (+ 0.000) 0.52 ug/L m

response 3446

Ion	Exp%	Act%
101.00	100.00	100.00
103.00	65.60	79.66
66.00	12.80	11.75
0.00	0.00	0.00

Manual Integration:

After

Split Peak.

02/16/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
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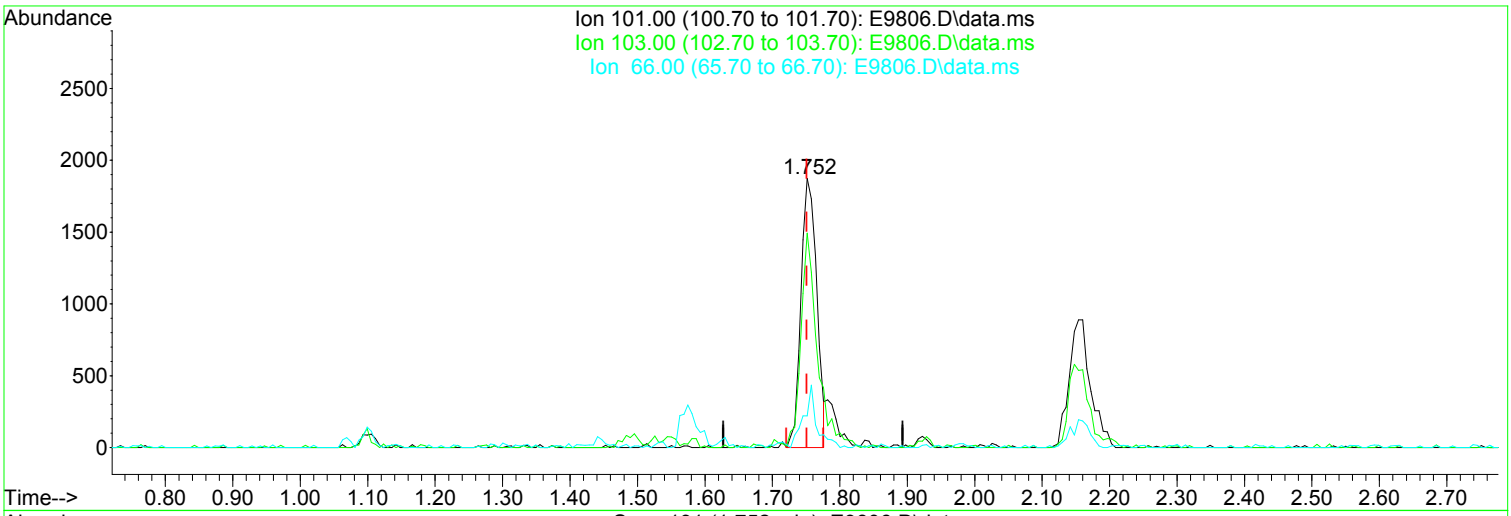
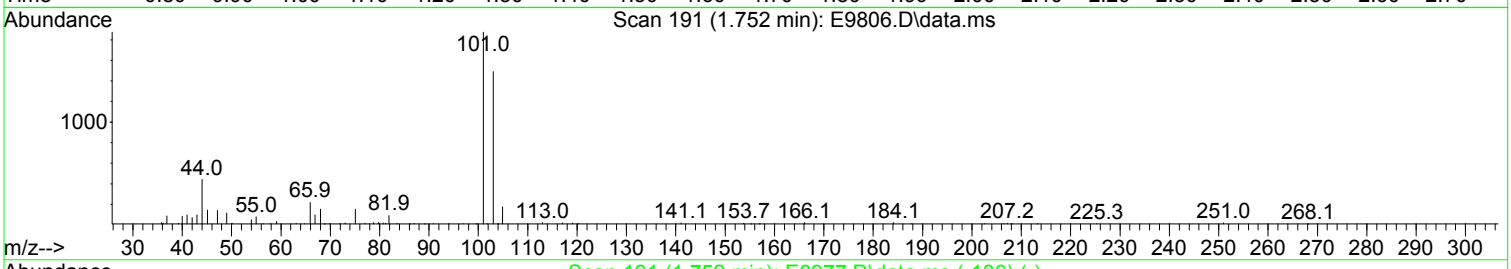
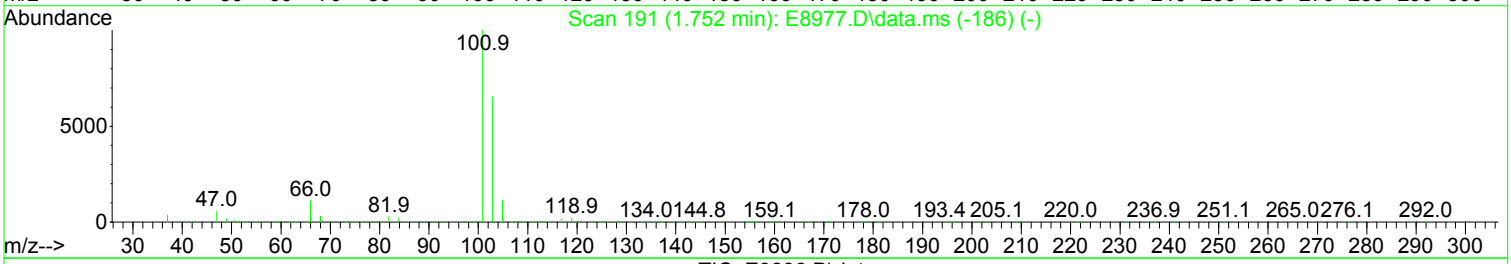
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9806.D\data.ms

(9) Trichlorofluoromethane (P)

1.752min (+ 0.000) 0.46 ug/L

response 3042

Ion	Exp%	Act%
101.00	100.00	100.00
103.00	65.60	79.66
66.00	12.80	11.75
0.00	0.00	0.00

Manual Integration:

Before

02/16/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.086	168	472385	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.245	114	697866	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.616	117	601861	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	11.683	152	276150	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.922	113	44298	9.82	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 19.64%#				
48) surr1,1,2-dichloroetha...	5.501	65	56030	11.96	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 23.92%#				
65) SURR3,Toluene-d8	8.104	98	169745	10.24	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 20.48%#				
70) SURR2,BFB	10.707	95	67742	11.34	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 22.68%#				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.099	51	2364	0.501	ug/L		87
3) Dichlorodifluoromethane	1.099	85	2952m	0.523	ug/L		
4) Chloromethane	1.215	50	2455m	0.474	ug/L		
5) Vinyl Chloride	1.288	62	2203	0.382	ug/L		88
6) Bromomethane	1.502	94	2089m	0.738	ug/L		
7) Chloroethane	1.575	64	1688	0.458	ug/L		90
8) Freon 21	1.709	67	3317	0.439	ug/L		88
9) Trichlorofluoromethane	1.752	101	3446m	0.516	ug/L		
10) Diethyl Ether	1.971	59	3989	1.041	ug/L	#	79
11) Freon 123a	1.977	67	1867	0.400	ug/L		91
12) Freon 123	2.026	83	2341	0.407	ug/L		94
13) Acrolein	2.069	56	2529m	2.547	ug/L		
14) 1,1-Diclethene	2.148	96	1884	0.451	ug/L		89
15) Freon 113	2.154	101	1963	0.453	ug/L		92
16) Acetone	2.203	43	1402	0.635	ug/L		89
17) 2-Propanol	2.331	45	4121	10.663	ug/L		86
18) Iodomethane	2.264	142	1880m	0.288	ug/L		
19) Carbon Disulfide	2.319	76	4938	0.400	ug/L		93
21) Allyl Chloride	2.459	76	1196	0.499	ug/L	#	71
22) Methyl Acetate	2.483	43	3379	0.596	ug/L		96
23) Methylene Chloride	2.568	84	2808	0.605	ug/L	#	78
24) TBA	2.696	59	7095m	10.893	ug/L		
25) Acrylonitrile	2.812	53	5314	2.353	ug/L		88
26) Methyl-t-Butyl Ether	2.855	73	6359	0.478	ug/L		91
27) trans-1,2-Dichloroethene	2.837	96	1988	0.447	ug/L		97
28) 1,1-Diclethane	3.306	63	3529	0.466	ug/L		82
30) DIPE	3.428	45	6854	0.477	ug/L		97
31) 2-Chloro-1,3-Butadiene	3.410	53	3598m	0.522	ug/L		
32) ETBE	3.922	59	6309m	0.459	ug/L		
33) 2,2-Dichloropropane	4.086	77	3013	0.469	ug/L		94
34) cis-1,2-Dichloroethene	4.105	96	2260	0.444	ug/L		85
35) 2-Butanone	4.178	43	1673	0.546	ug/L		85
36) Propionitrile	4.257	54	2170	2.372	ug/L		86
37) Bromochloromethane	4.471	130	1440m	0.439	ug/L		
38) Methacrylonitrile	4.495	67	990	0.422	ug/L		95
39) Tetrahydrofuran	4.611	42	963	0.531	ug/L	#	58
40) Chloroform	4.641	83	4016	0.522	ug/L		91
41) 1,1,1-Trichloroethane	4.922	97	2961	0.435	ug/L		86
42) TAME	5.842	73	5712	0.431	ug/L		92

1st 02/16/24
2nd 02/16/24

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) Cyclohexane	4.989	41	2004m	0.493	ug/L		
46) Carbontetrachloride	5.220	117	3390m	0.551	ug/L		
47) 1,1-Dichloropropene	5.245	75	3193	0.584	ug/L		93
49) Benzene	5.580	78	7519	0.475	ug/L		88
50) 1,2-Dichloroethane	5.623	62	3094	0.557	ug/L		85
51) Iso-Butyl Alcohol	5.659	43	2039m	11.257	ug/L		
52) n-Heptane	6.092	43	3394	0.537	ug/L		76
53) 1-Butanol	6.665	56	2094m	20.200	ug/L		
54) Trichloroethene	6.574	130	2361	0.494	ug/L		87
55) Methylcyclohexane	6.812	55	3061	0.533	ug/L	#	79
56) 1,2-Diclpropane	6.866	63	1888m	0.431	ug/L		
57) Dibromomethane	7.013	93	1422	0.479	ug/L		89
58) 1,4-Dioxane	7.104	88	791	11.530	ug/L		91
59) Methyl Methacrylate	7.116	69	1357	0.378	ug/L	#	73
60) Bromodichloromethane	7.257	83	2513	0.432	ug/L		95
61) 2-Nitropropane	7.555	41	1514m	0.996	ug/L		
62) 2-Chloroethylvinyl Ether	7.677	63	624	0.221	ug/L		67
63) cis-1,3-Dichloropropene	7.805	75	3297	0.475	ug/L		99
64) 4-Methyl-2-pentanone	8.031	43	2685	0.506	ug/L		82
66) Toluene	8.177	91	8230	0.470	ug/L		96
67) trans-1,3-Dichloropropene	8.464	75	2947	0.450	ug/L		87
68) Ethyl Methacrylate	8.610	69	2606	0.409	ug/L		88
69) 1,1,2-Trichloroethane	8.647	97	1968	0.462	ug/L		91
72) Tetrachloroethene	8.769	164	1915	0.539	ug/L	#	84
73) 2-Hexanone	8.964	43	1794	0.459	ug/L		94
74) 1,3-Dichloropropane	8.823	76	3485	0.529	ug/L		85
75) Dibromochloromethane	9.049	129	2056m	0.398	ug/L		
76) N-Butyl Acetate	9.116	43	3971	0.490	ug/L		85
77) 1,2-Dibromoethane	9.147	107	2170	0.502	ug/L		82
78) 3-Chlorobenzotrifluoride	9.671	180	3405	0.531	ug/L		91
79) Chlorobenzene	9.640	112	5988	0.514	ug/L		99
80) 4-Chlorobenzotrifluoride	9.732	180	3258	0.570	ug/L		90
81) 1,1,1,2-Tetrachloroethane	9.738	131	2263	0.479	ug/L		88
82) Ethylbenzene	9.768	106	3069	0.495	ug/L	#	79
83) (m+p)Xylene	9.884	106	7016	0.949	ug/L		89
84) o-Xylene	10.238	106	3429	0.474	ug/L	#	84
85) Styrene	10.256	104	5786	0.462	ug/L		89
86) Bromoform	10.409	173	1373	0.408	ug/L		99
87) 2-Chlorobenzotrifluoride	10.494	180	2945	0.485	ug/L		84
88) Isopropylbenzene	10.579	105	8883	0.469	ug/L		98
89) Cyclohexanone	10.652	55	9690	9.603	ug/L		80
90) trans-1,4-Dichloro-2-B...	10.896	53	753	0.409	ug/L	#	61
92) 1,1,2,2-Tetrachloroethane	10.847	83	2725	0.484	ug/L		92
93) Bromobenzene	10.823	156	2773	0.590	ug/L		93
94) 1,2,3-Trichloropropane	10.872	110	1087	0.578	ug/L		91
95) n-Propylbenzene	10.939	91	9962	0.262	ug/L		99
96) 2-Chlorotoluene	11.000	91	5996	0.498	ug/L		92
97) 3-Chlorotoluene	11.055	91	6646	0.524	ug/L		93
98) 4-Chlorotoluene	11.097	91	7936	0.558	ug/L		89
99) 1,3,5-Trimethylbenzene	11.091	105	7842	0.525	ug/L		97
100) tert-Butylbenzene	11.366	119	6672	0.502	ug/L		94
101) 1,2,4-Trimethylbenzene	11.408	105	7371	0.492	ug/L		94
102) 3,4-Dichlorobenzotrifl...	11.475	214	2251	0.516	ug/L		98
103) sec-Butylbenzene	11.549	105	9210	0.487	ug/L		94
104) p-Isopropyltoluene	11.670	119	8073	0.495	ug/L		91
105) 1,3-Dclbenz	11.628	146	4848	0.547	ug/L		88

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration

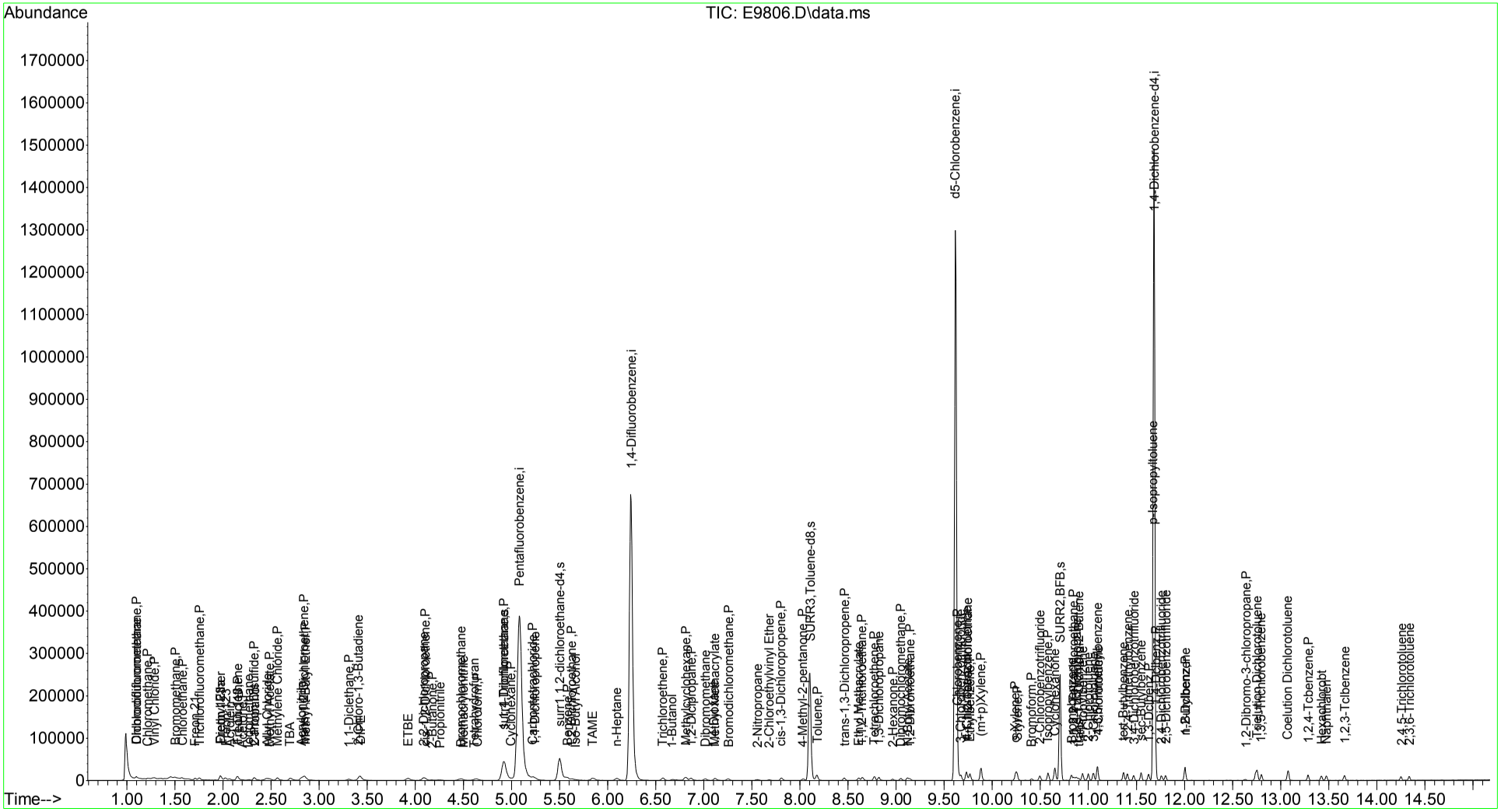
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
106) 1,4-Dclbenz	11.701	146	5221	0.588	ug/L		87
107) 2,4-Dichlorobenzotrifl...	11.762	214	2465	0.643	ug/L		96
108) 2,5-Dichlorobenzotrifl...	11.805	214	2361	0.552	ug/L		94
109) n-Butylbenzene	12.006	91	6647	0.464	ug/L		96
110) 1,2-Dclbenz	12.006	146	4638	0.542	ug/L		90
111) 1,2-Dibromo-3-chloropr...	12.640	157	650	0.453	ug/L	#	54
112) Trielution Dichlorotol...	12.756	125	11393	1.443	ug/L		92
113) 1,3,5-Trichlorobenzene	12.798	180	3237	0.522	ug/L		95
114) Coelution Dichlorotoluene	13.073	125	7875	0.957	ug/L		96
115) 1,2,4-Tcbenzene	13.286	180	3328	0.587	ug/L		82
116) Hexachlorobt	13.426	225	1489	0.537	ug/L		90
117) Naphthalen	13.475	128	6500	0.401	ug/L		97
118) 1,2,3-Tclbenzene	13.664	180	2557	0.482	ug/L		93
119) 2,4,5-Trichlorotoluene	14.255	159	1818	0.443	ug/L		97
120) 2,3,6-Trichlorotoluene	14.341	159	1705	0.412	ug/L		81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9806.D
Acq On : 15 Feb 2024 12:47 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 13:27:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration

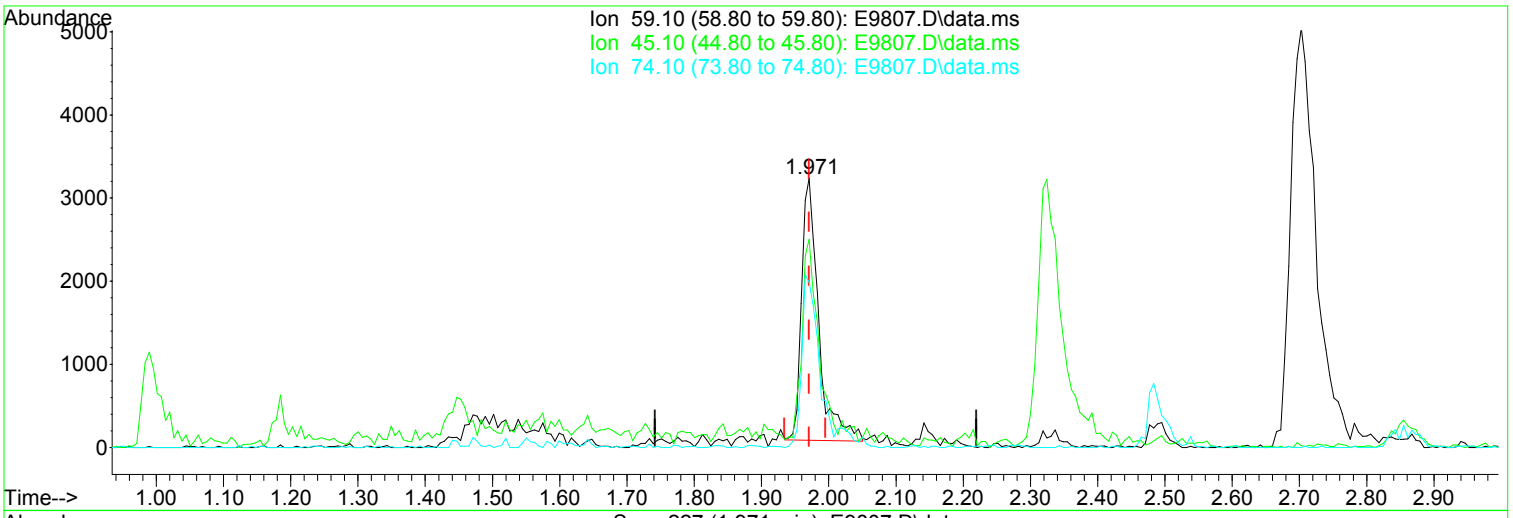


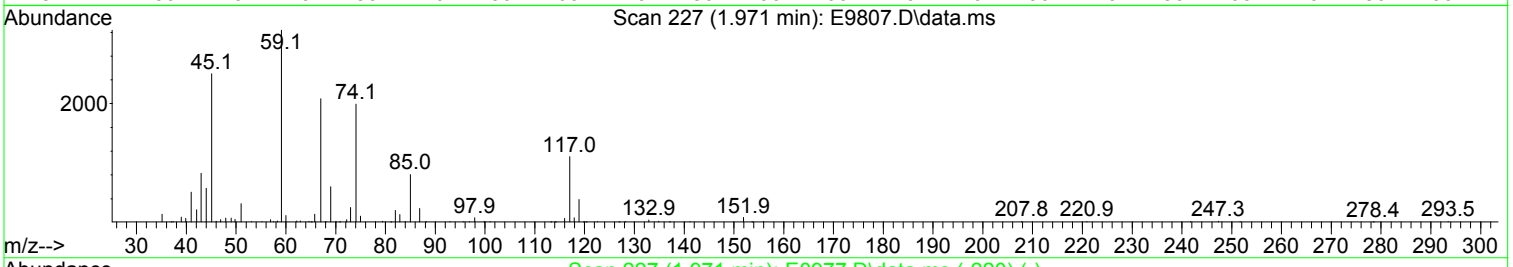
1st 02/16/24
2nd 02/16/24

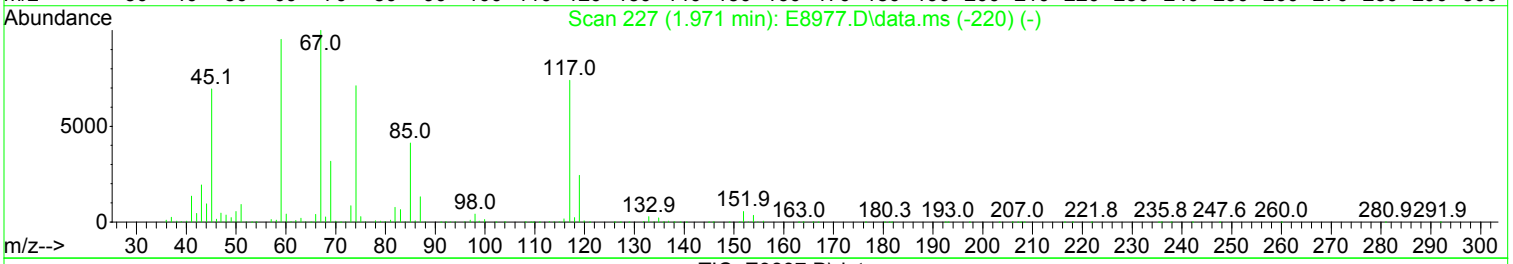
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(10) Diethyl Ether

1.971min (-0.000) 1.46 ug/L m

response 5576

Ion	Exp%	Act%
59.10	100.00	100.00
45.10	73.30	77.37
74.10	74.60	61.55
0.00	0.00	0.00

Manual Integration:

After

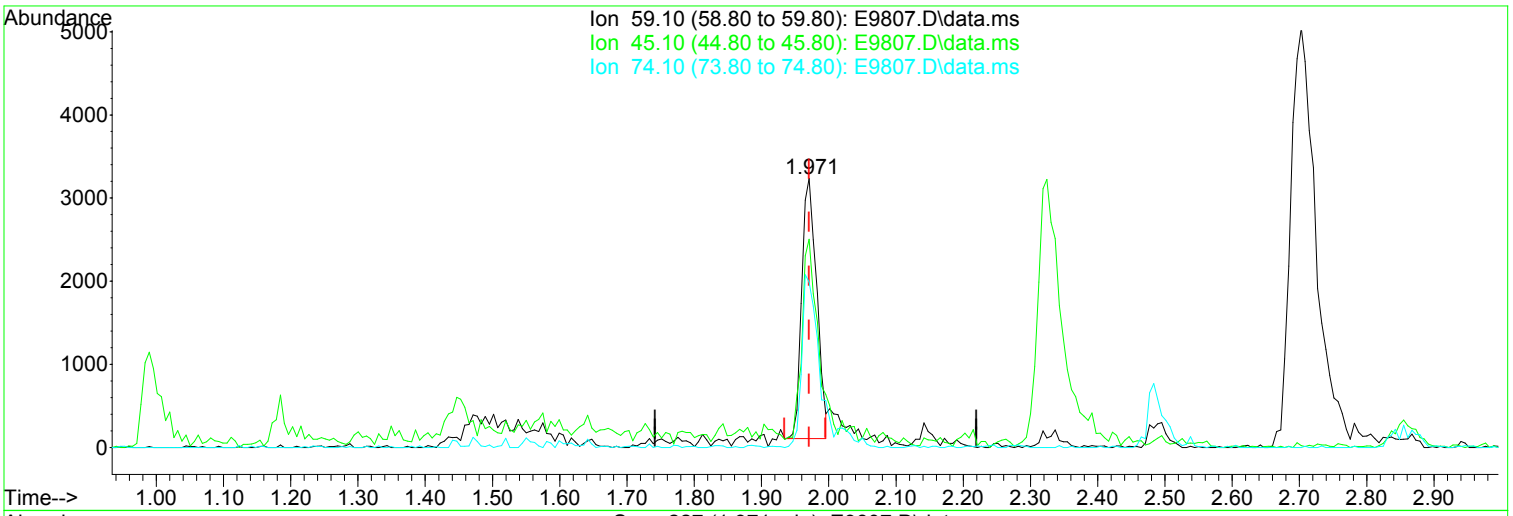
Poor integration.

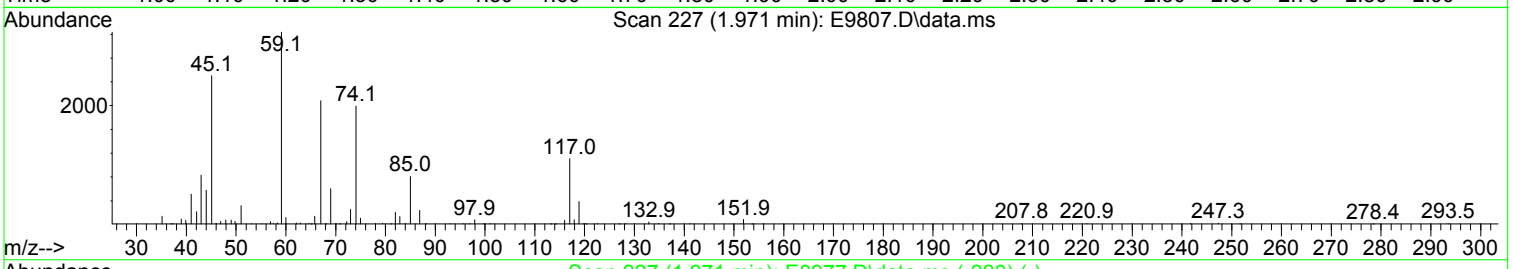
02/16/24

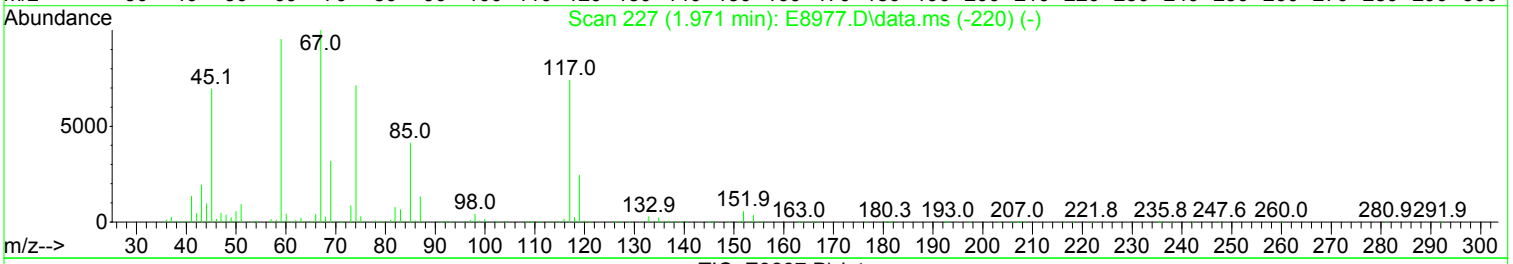
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(10) Diethyl Ether

1.971min (-0.000) 1.27 ug/L

response 4842

Ion	Exp%	Act%
59.10	100.00	100.00
45.10	73.30	77.37
74.10	74.60	61.55
0.00	0.00	0.00

Manual Integration:

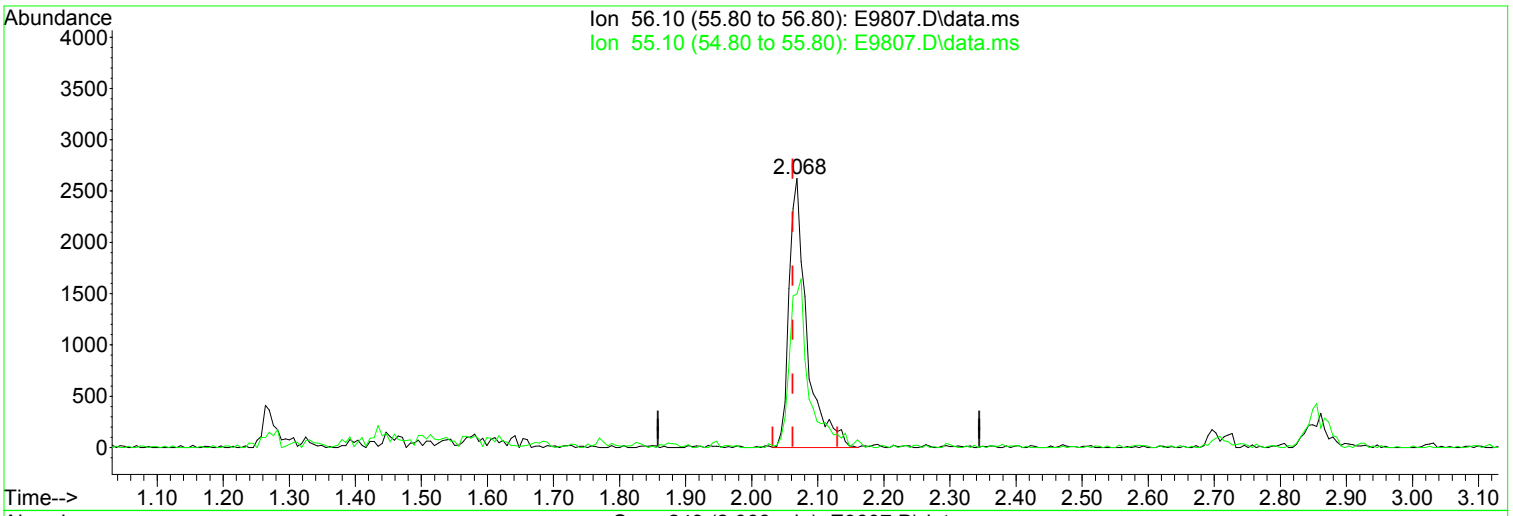
Before

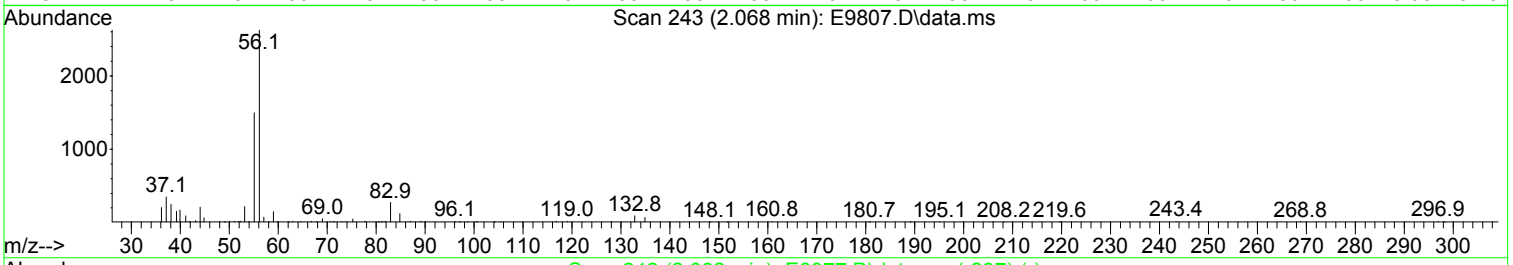
02/16/24

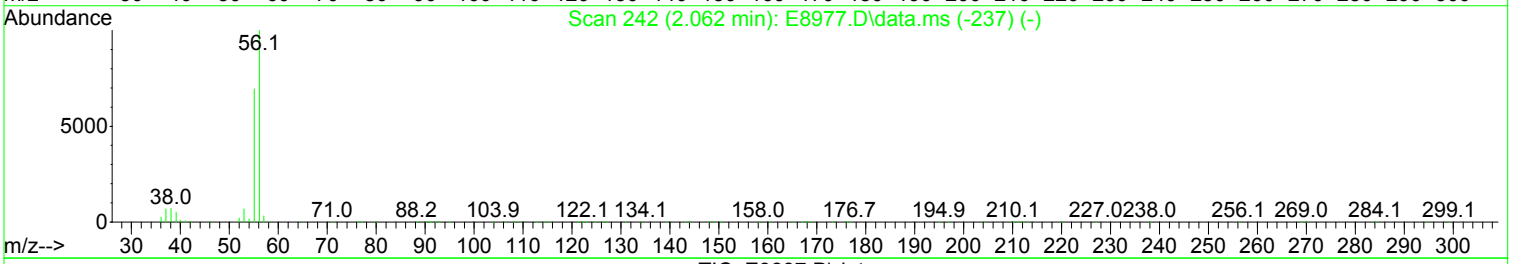
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(13) Acrolein

2.068min (+ 0.006) 4.98 ug/L m

response 4920

Ion	Exp%	Act%
56.10	100.00	100.00
55.10	70.00	57.06
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

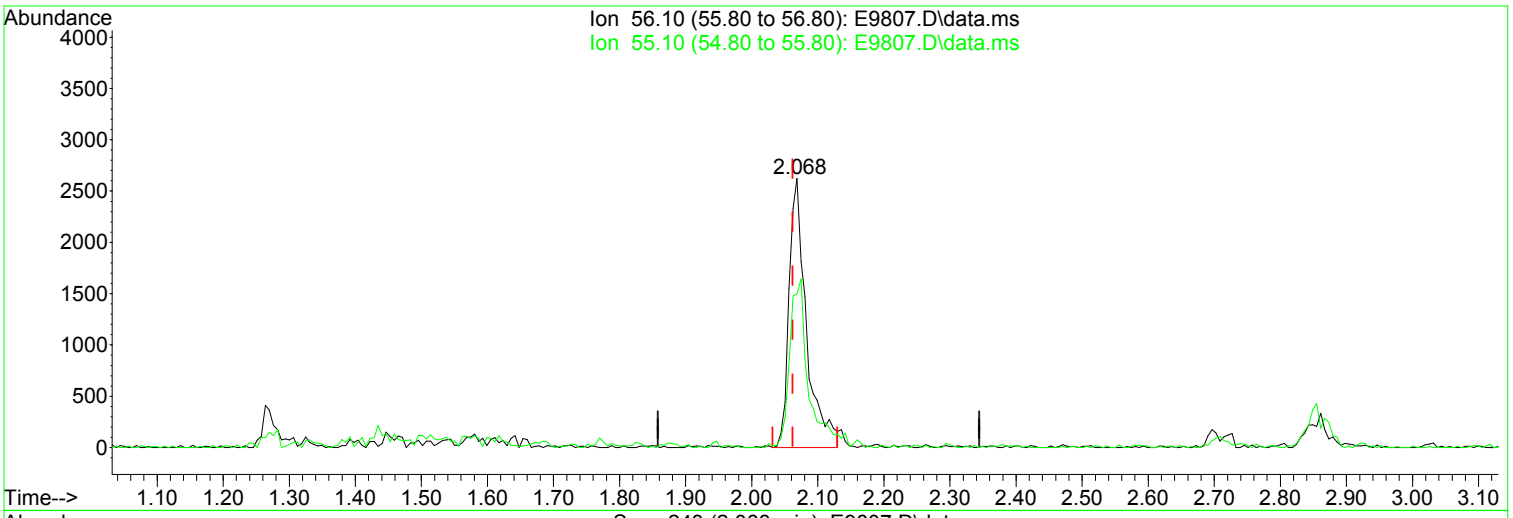
Poor integration.

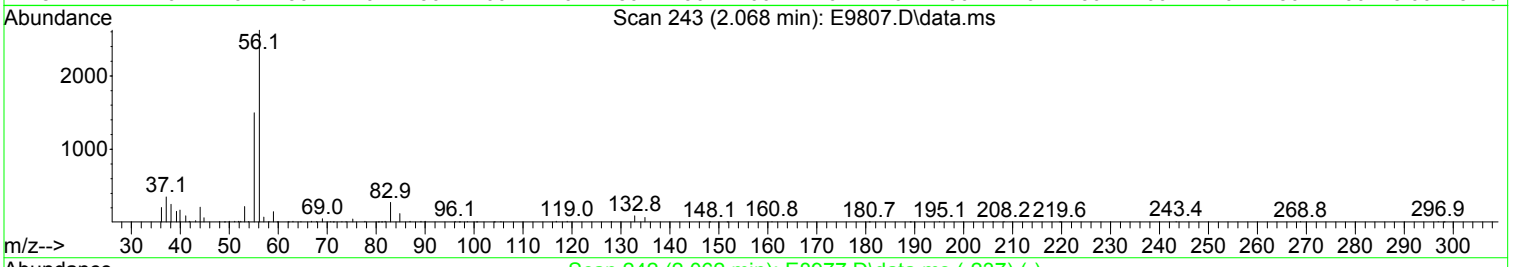
02/16/24

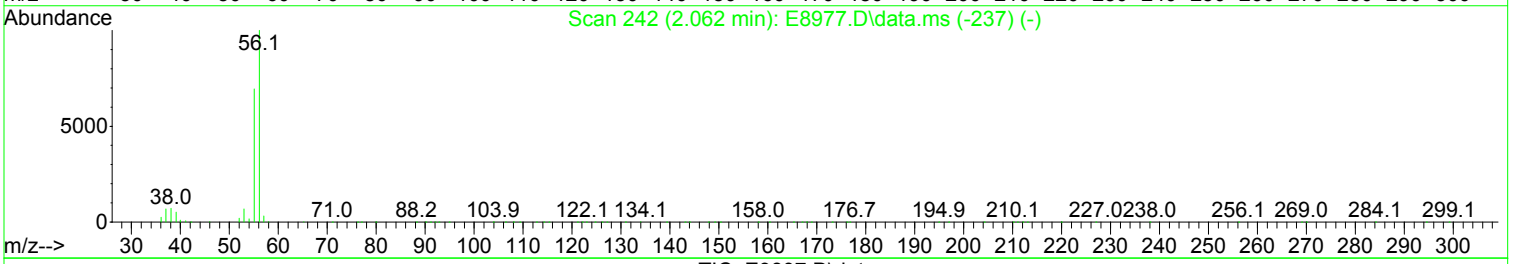
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(13) Acrolein

2.068min (+ 0.006) 4.88 ug/L

response 4823

Ion	Exp%	Act%
56.10	100.00	100.00
55.10	70.00	57.06
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

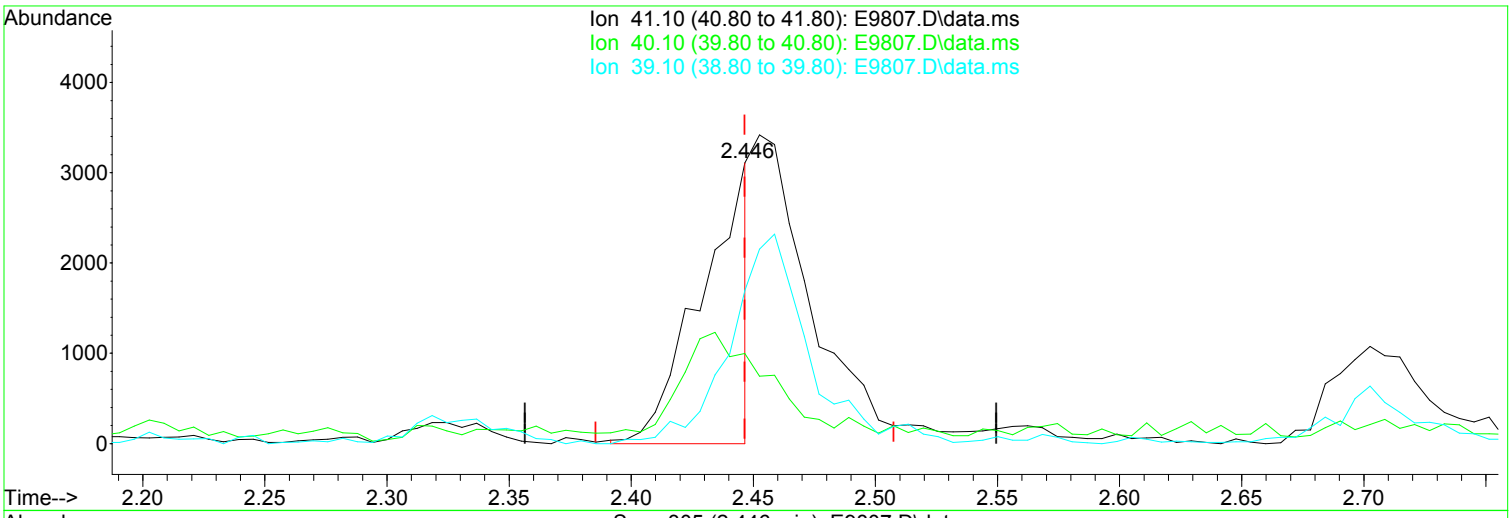
Before

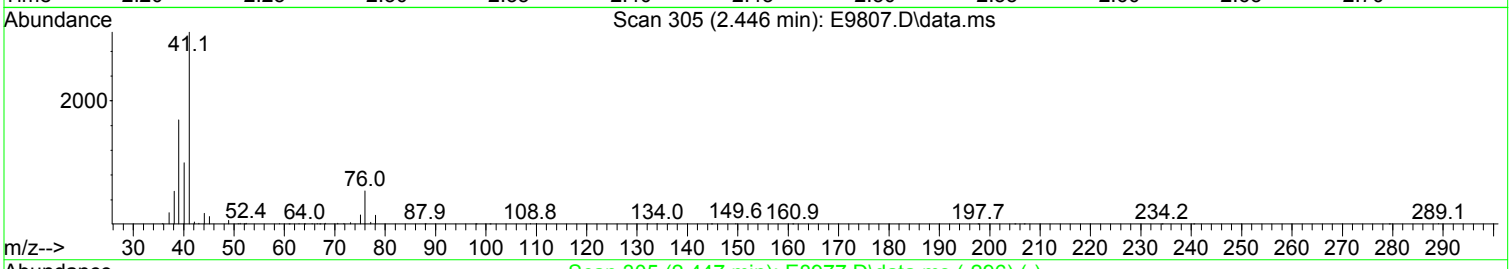
02/16/24

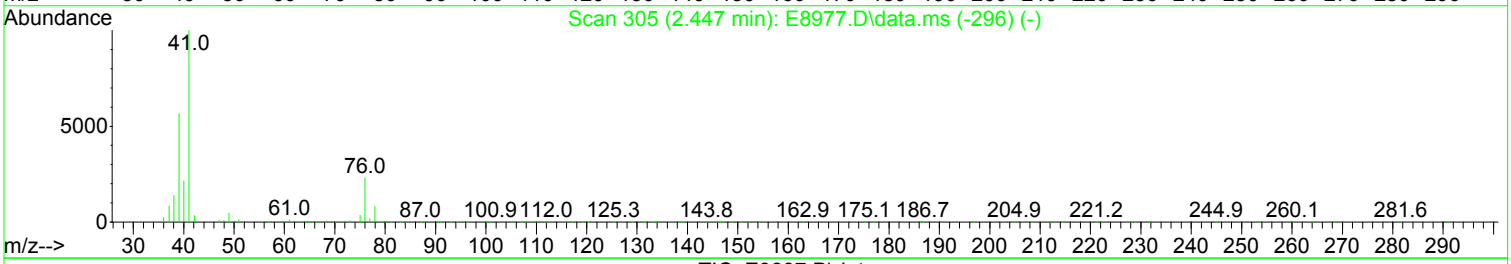
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(20) Acetonitrile

2.446min (-0.000) 4.57 ug/L m

response 4307

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	21.50	32.08
39.10	57.00	54.47
0.00	0.00	0.00

Manual Integration:

After

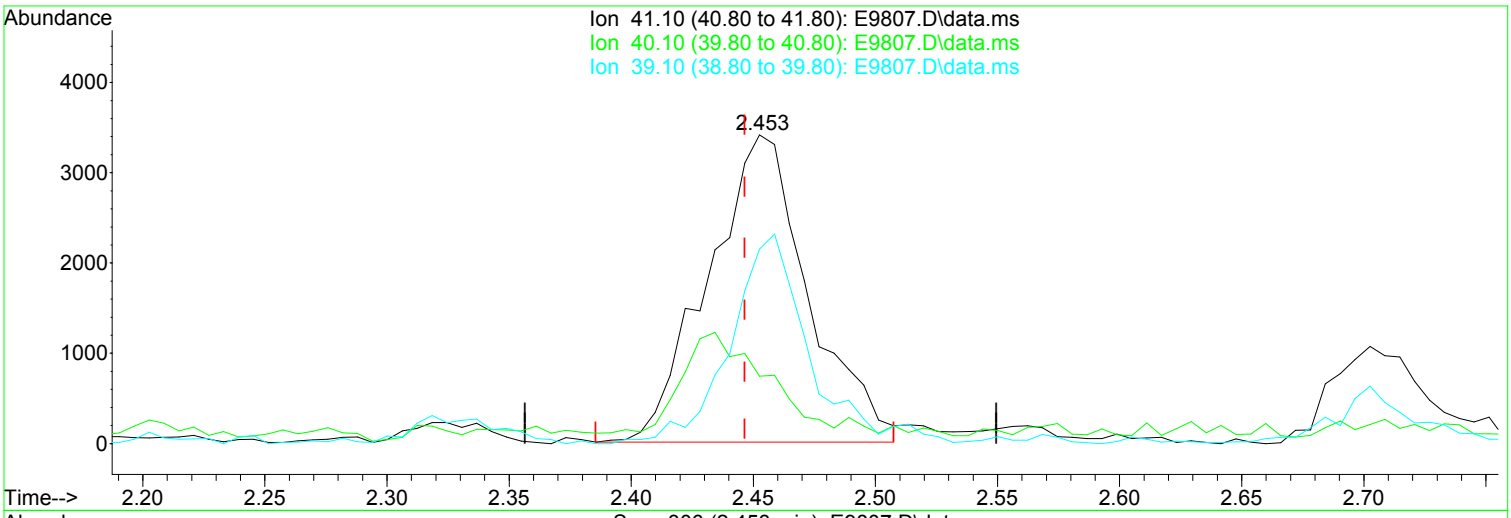
Poor integration.

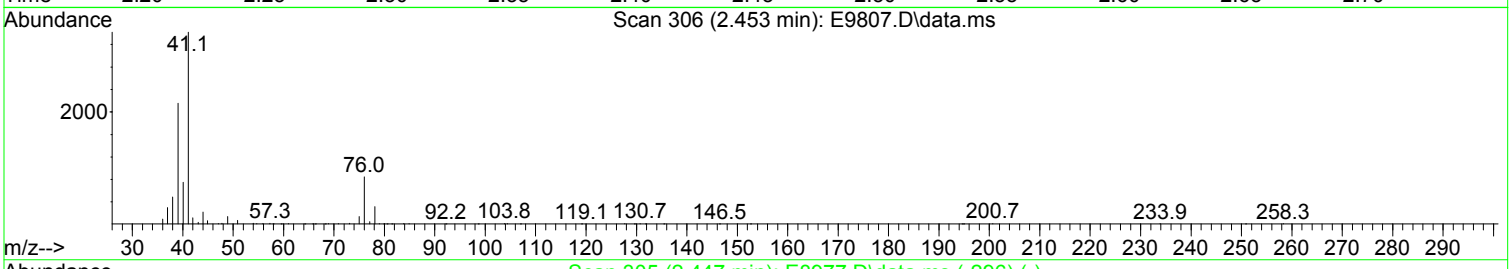
02/16/24

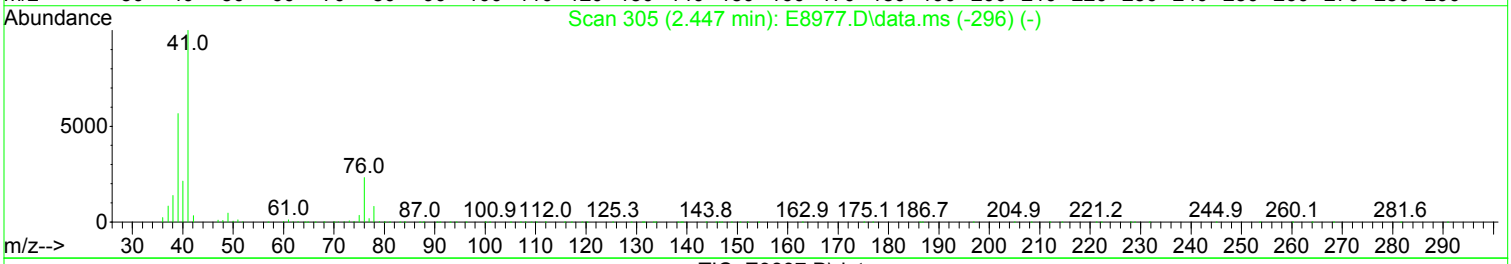
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(20) Acetonitrile

2.453min (+ 0.006) 10.28 ug/L

response 9687

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	21.50	21.88
39.10	57.00	63.02
0.00	0.00	0.00

Manual Integration:

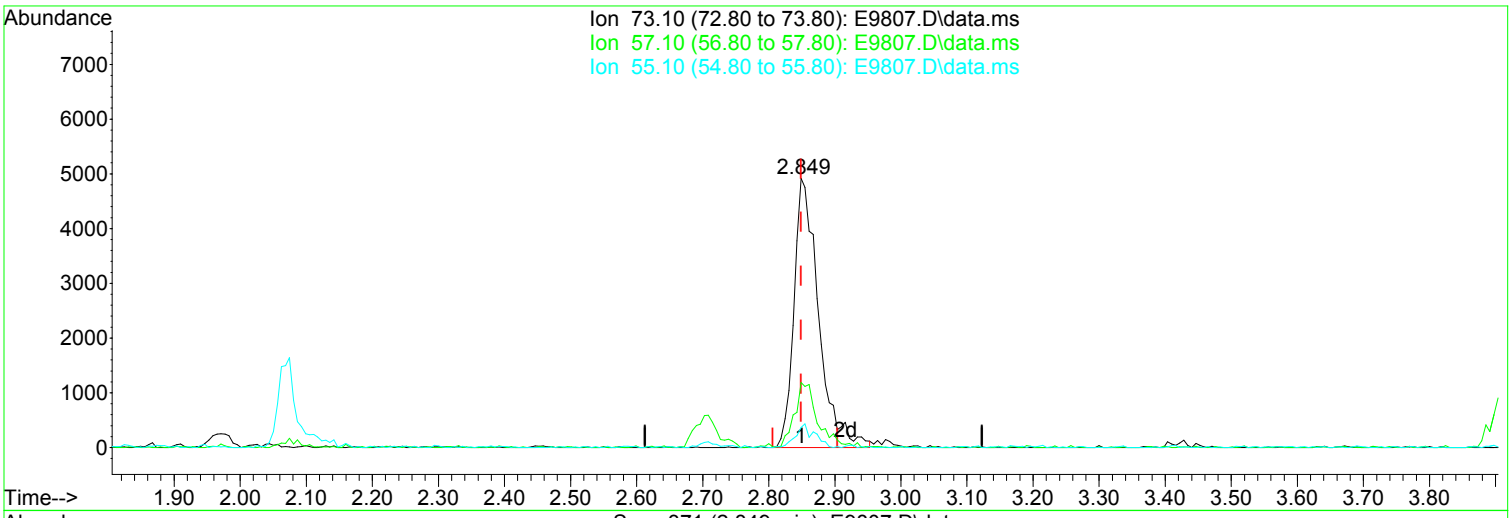
Before

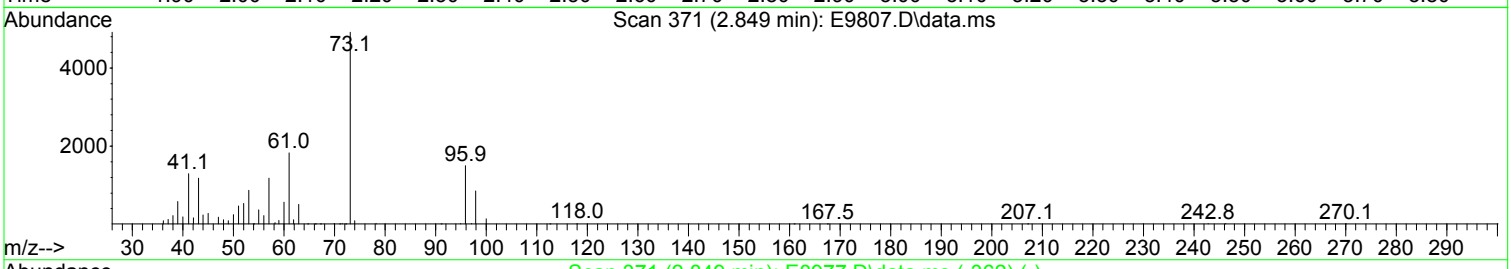
02/16/24

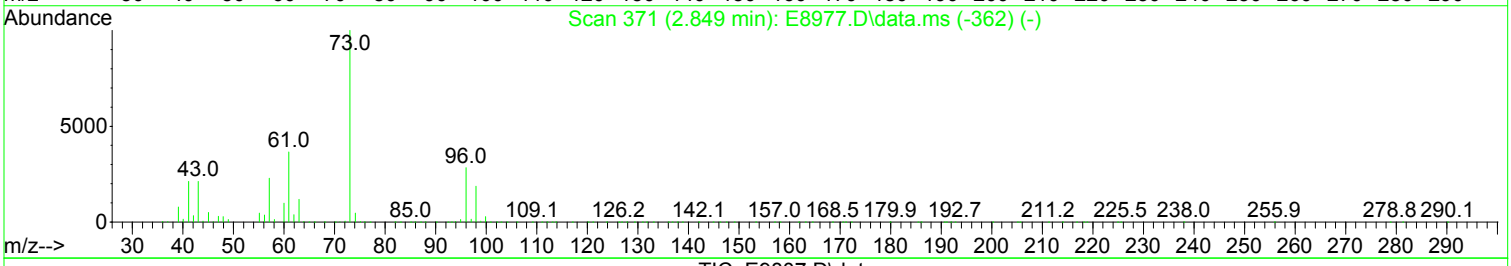
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(26) Methyl-t-Butyl Ether (P)

2.849min (-0.000) 0.96 ug/L m

response 12694

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	23.20	24.09
55.10	4.90	7.53
0.00	0.00	0.00

Manual Integration:

After

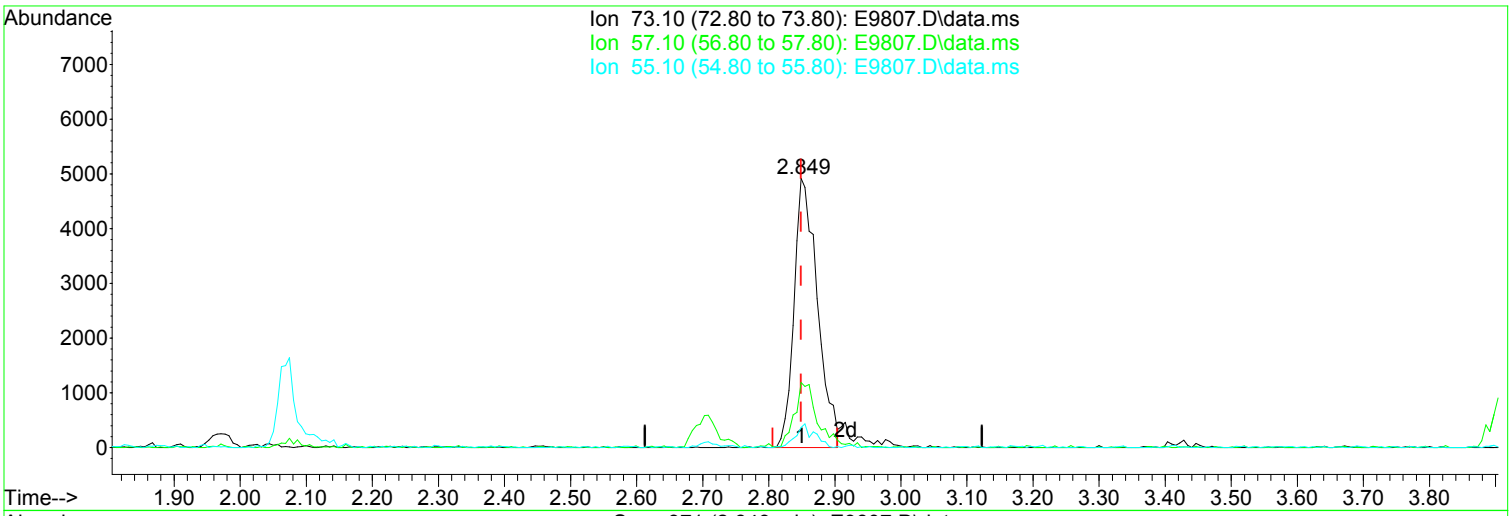
Poor integration.

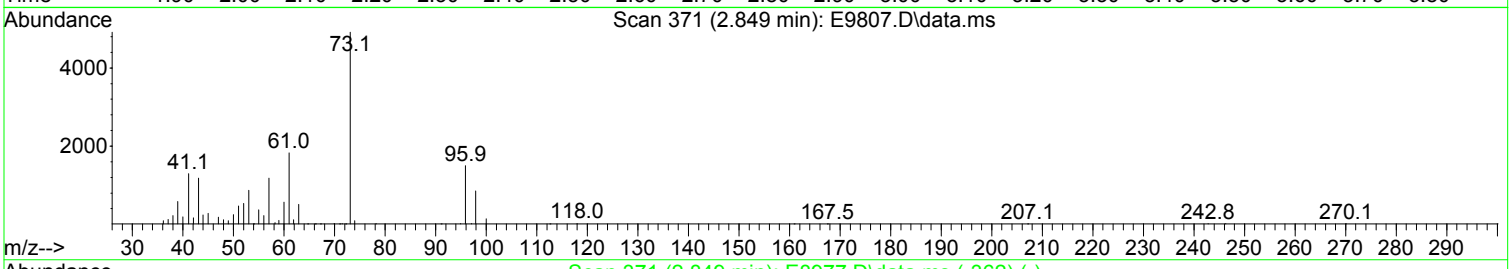
02/16/24

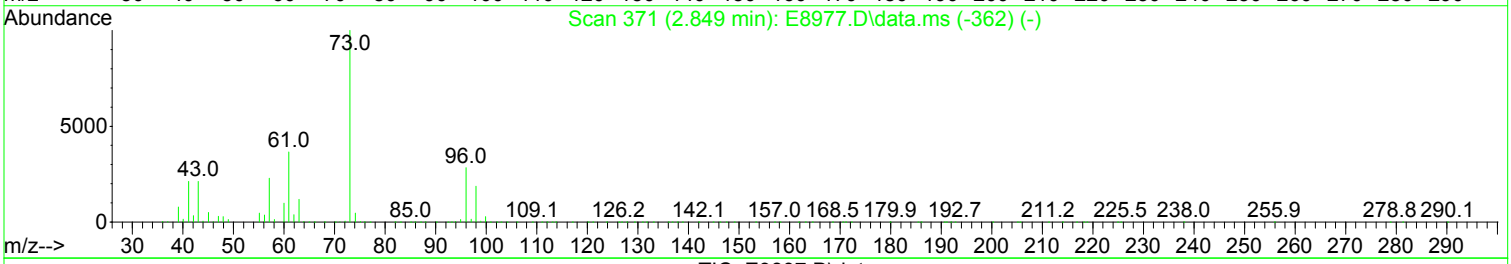
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(26) Methyl-t-Butyl Ether (P)

2.849min (-0.000) 0.91 ug/L

response 12052

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	23.20	24.09
55.10	4.90	7.53
0.00	0.00	0.00

Manual Integration:

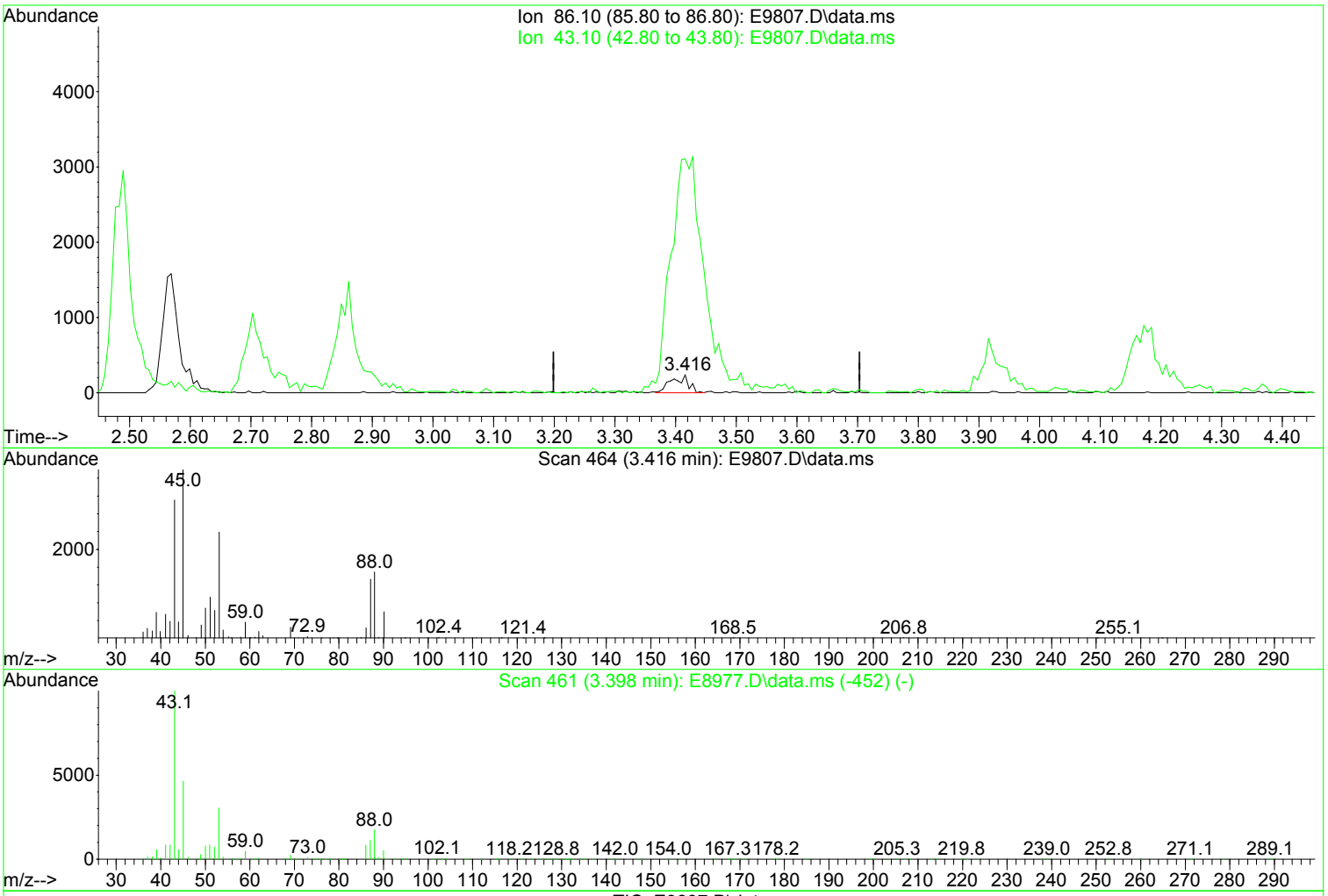
Before

02/16/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration



TIC: E9807.D\data.ms

(29) Vinyl Acetate

3.416min (+ 0.018) 0.64 ug/L m

response 462

Ion	Exp%	Act%
86.10	100.00	100.00
43.10	1207.90	1305.88#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

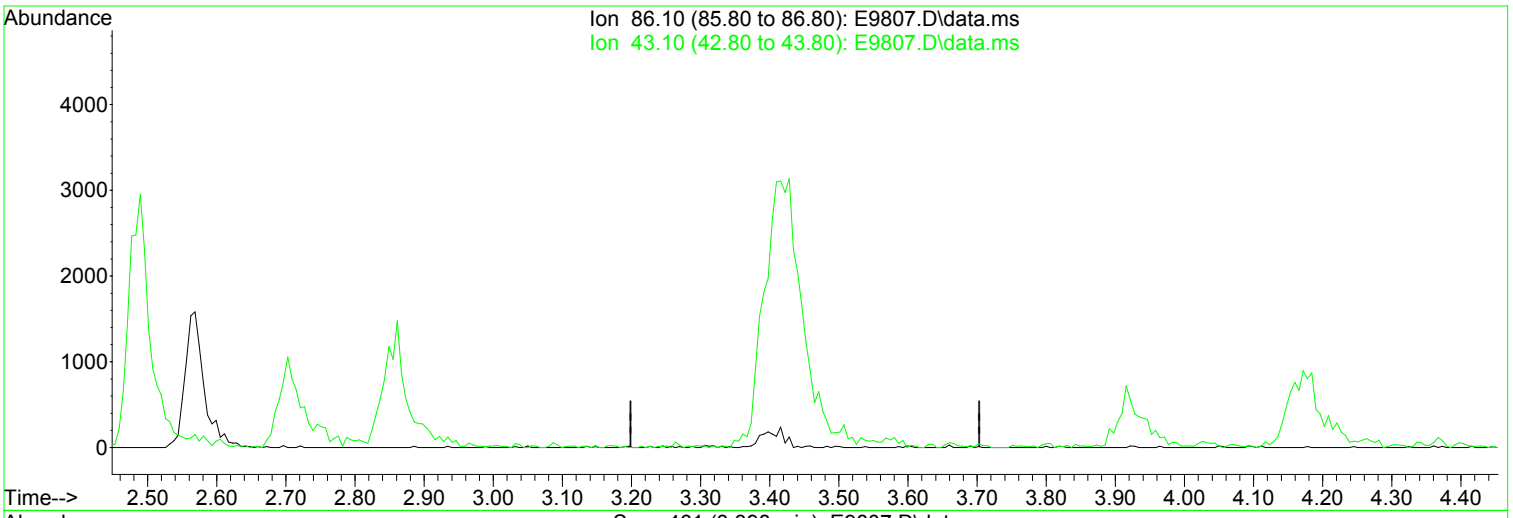
Peak not found.

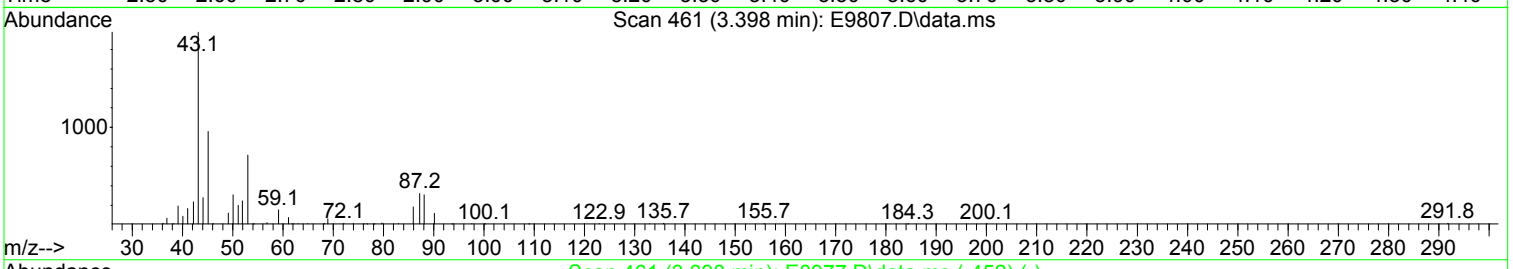
02/16/24

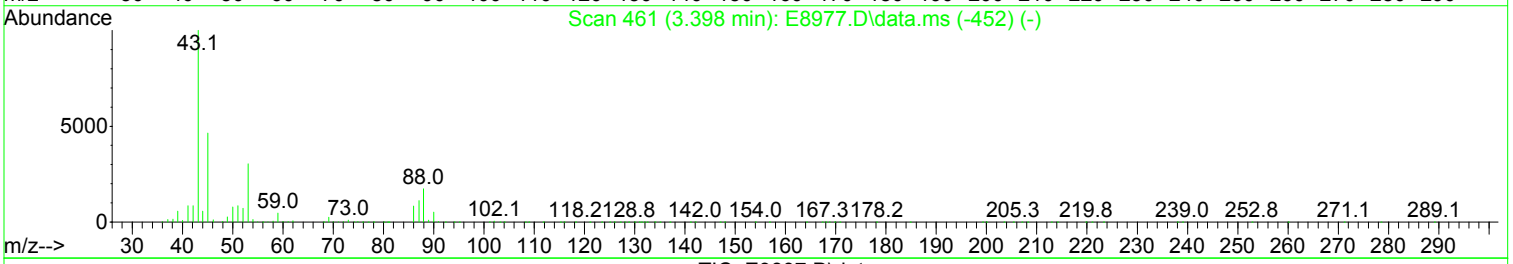
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(29) Vinyl Acetate

3.398min (-3.398) 0.00 ug/L

response 0

Ion	Exp%	Act%
86.10	100.00	0.00
43.10	1207.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

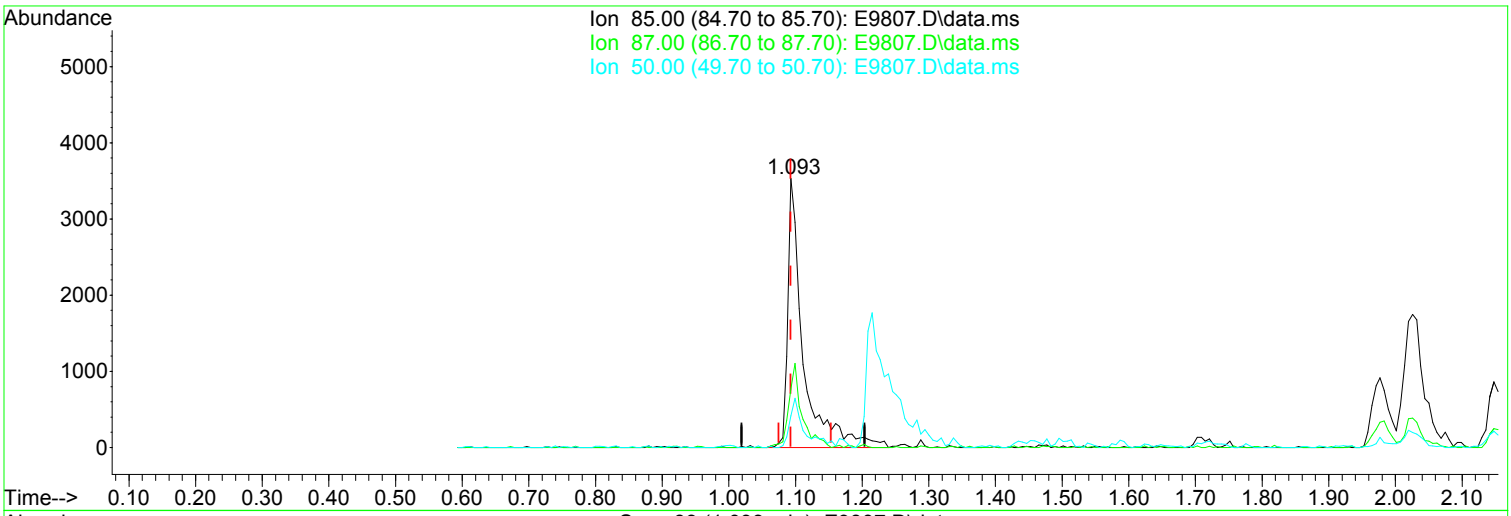
Before

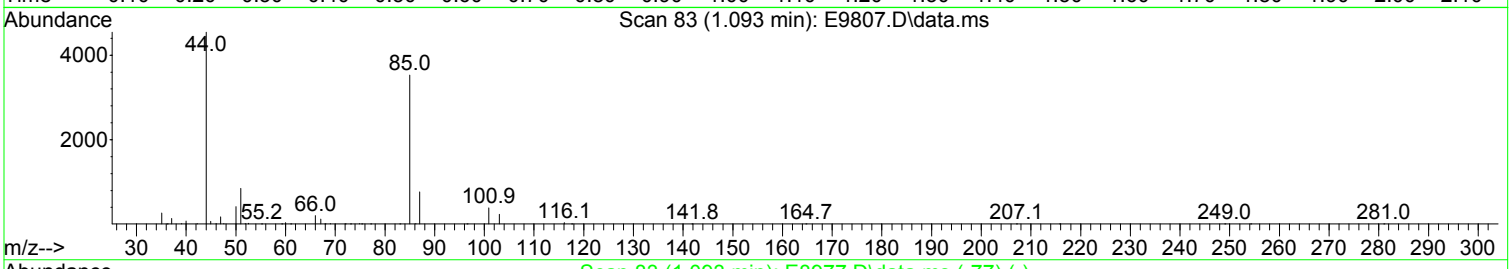
02/16/24

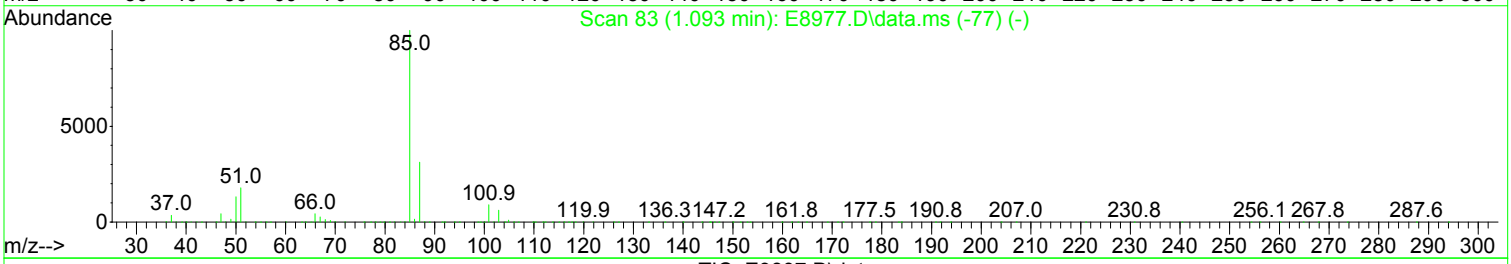
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(3) Dichlorodifluoromethane (P)

1.093min (-0.000) 1.02 ug/L m

response 5718

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.10	21.75
50.00	13.20	11.81
0.00	0.00	0.00

Manual Integration:

After

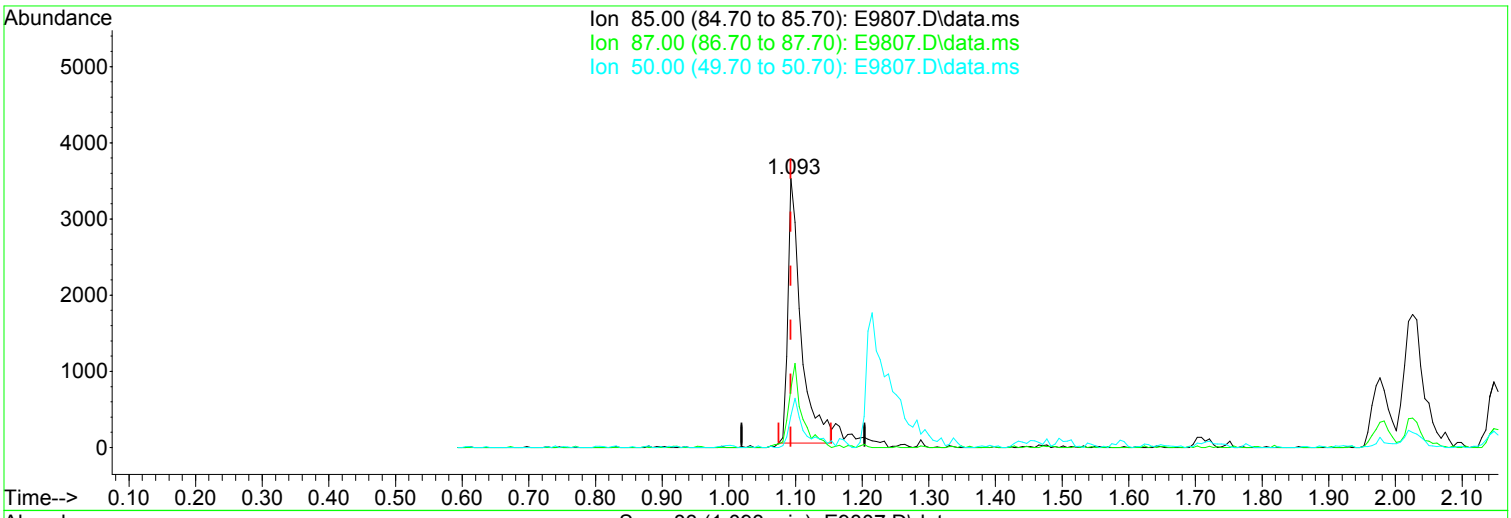
Poor integration.

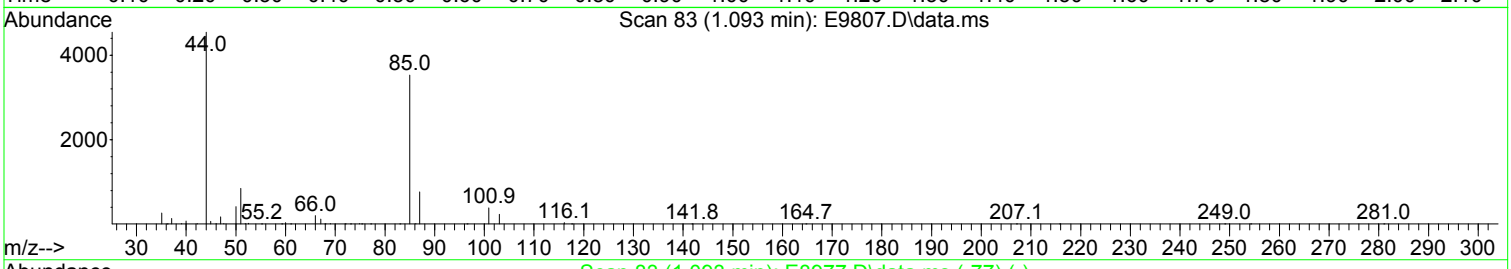
02/16/24

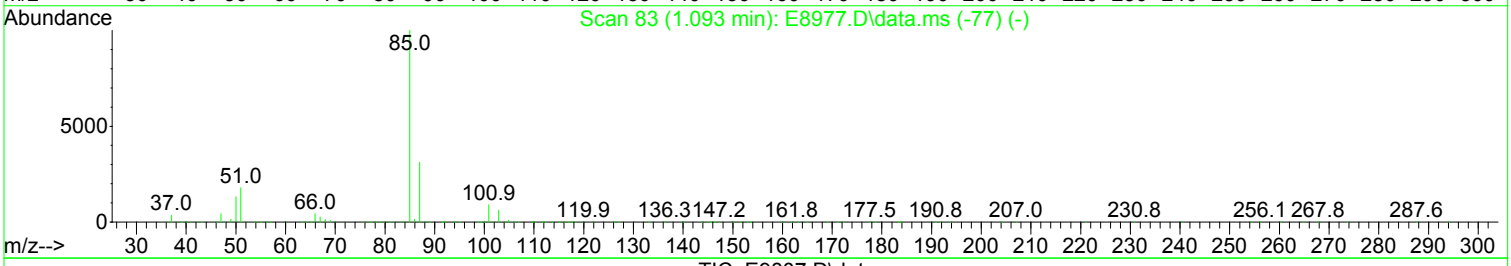
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(3) Dichlorodifluoromethane (P)

1.093min (-0.000) 0.84 ug/L

response 4722

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.10	21.75
50.00	13.20	11.81
0.00	0.00	0.00

Manual Integration:

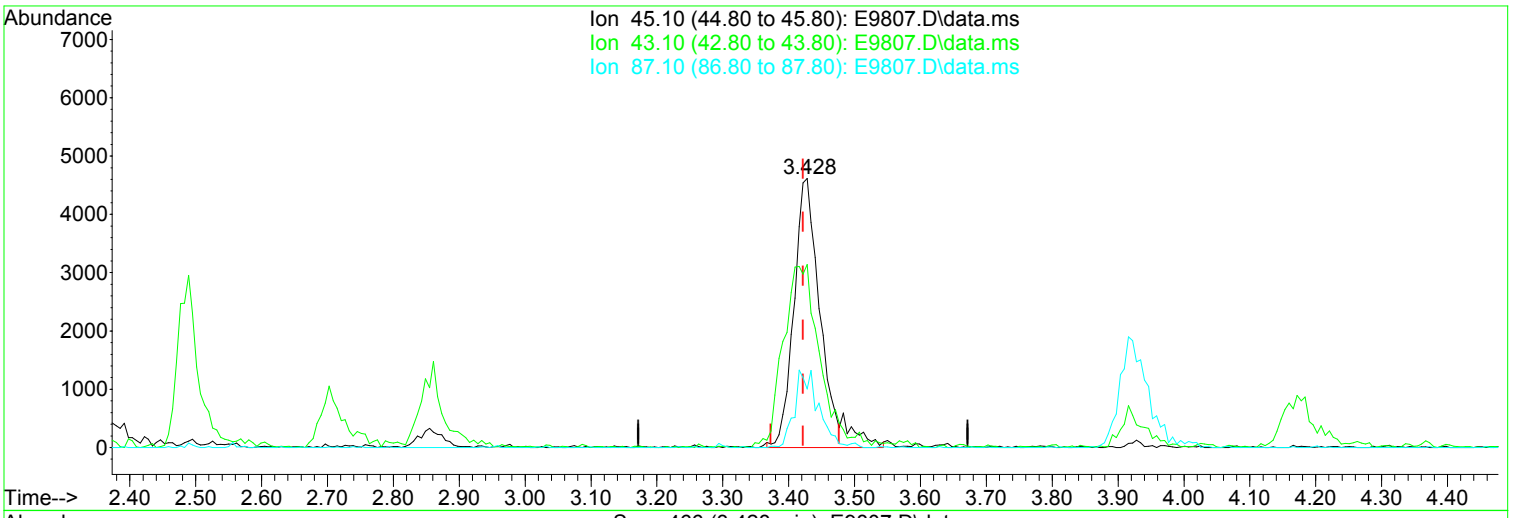
Before

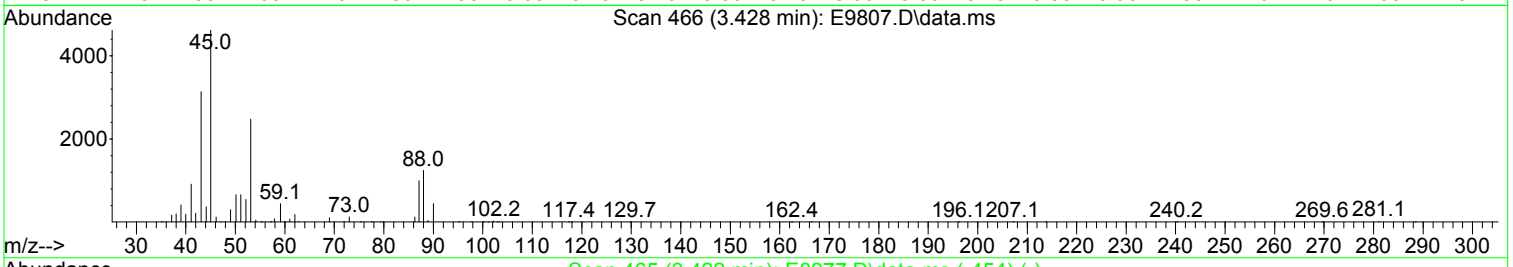
02/16/24

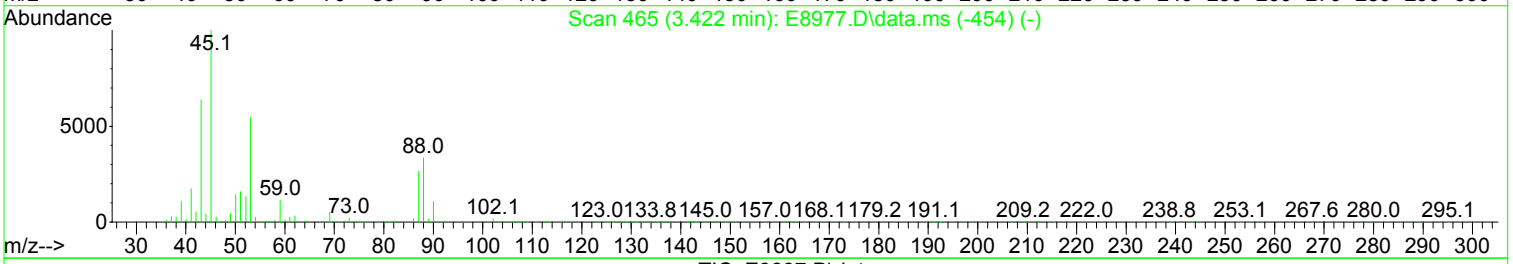
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(30) DIPE

3.428min (+ 0.006) 0.93 ug/L m

response 13234

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	64.40	68.01
87.10	26.60	21.74
0.00	0.00	0.00

Manual Integration:

After

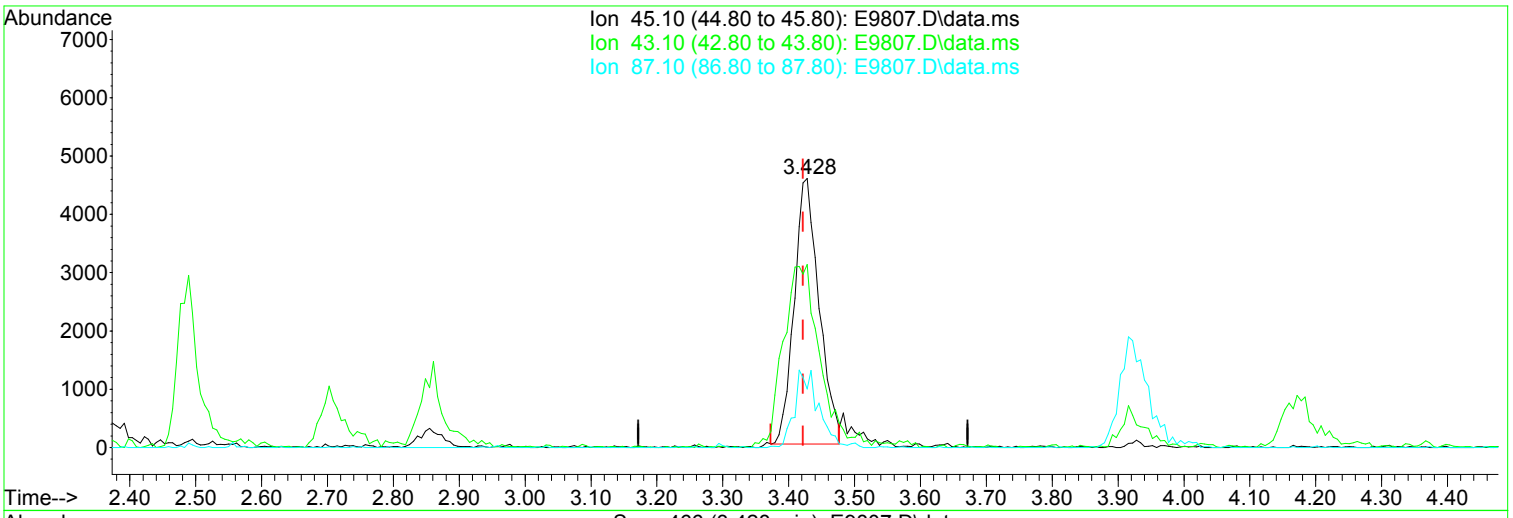
Poor integration.

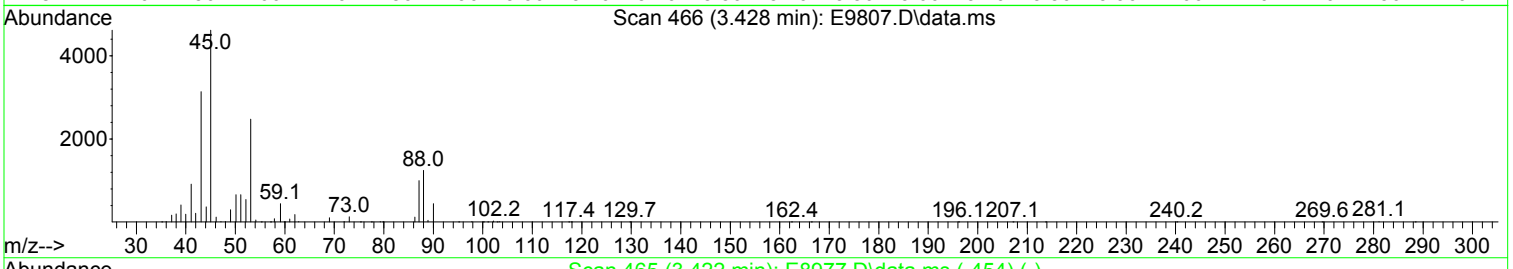
02/16/24

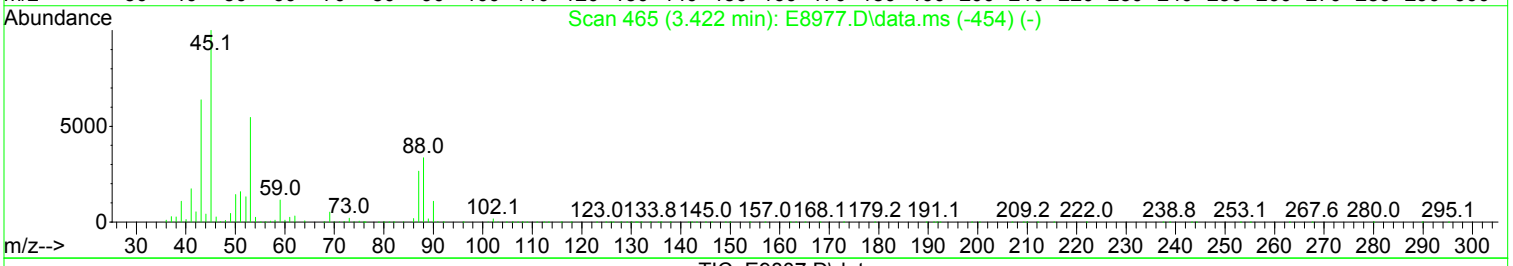
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(30) DIPE

3.428min (+ 0.006) 0.83 ug/L

response 11932

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	64.40	68.01
87.10	26.60	21.74
0.00	0.00	0.00

Manual Integration:

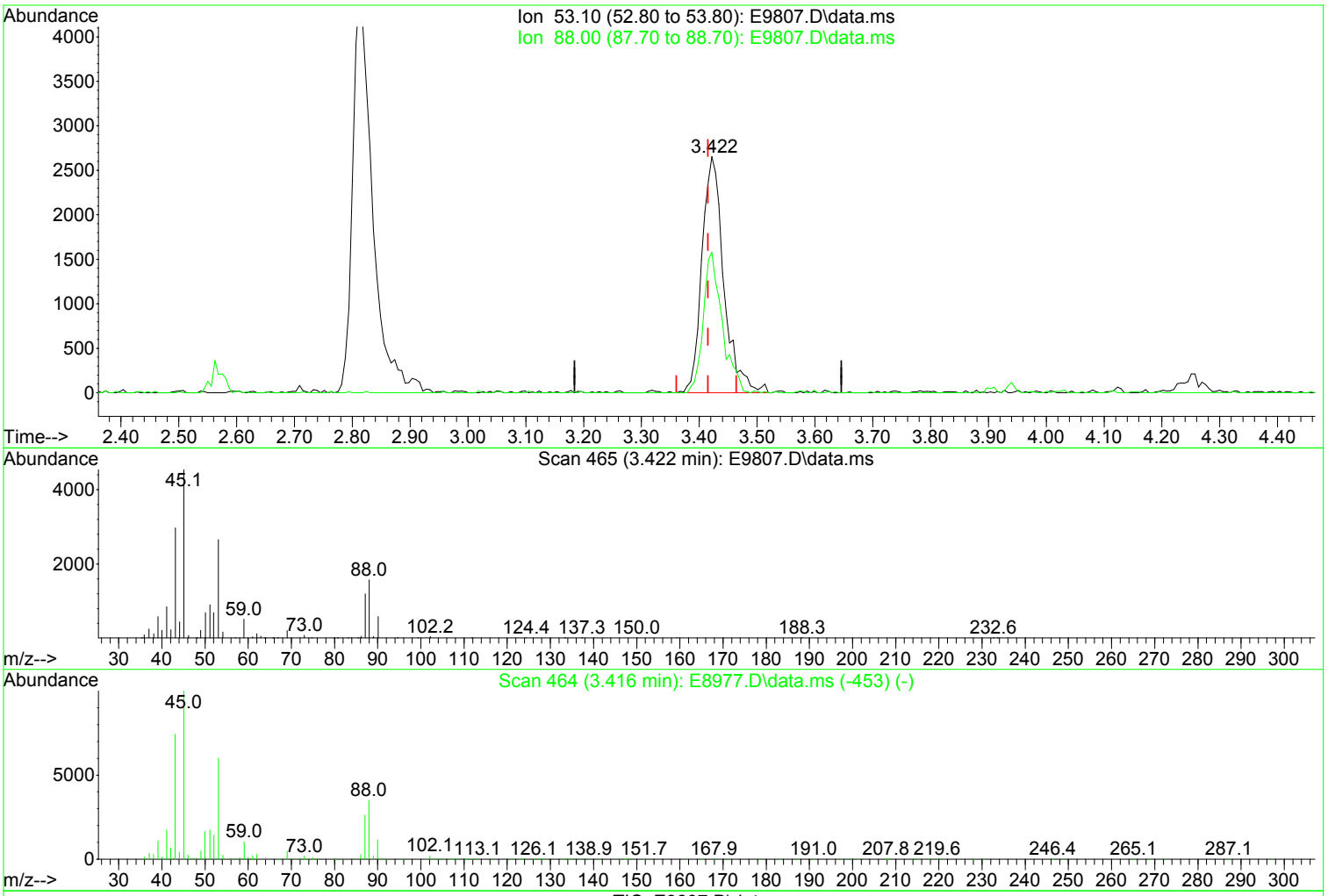
Before

02/16/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration



TIC: E9807.D\data.ms

(31) 2-Chloro-1,3-Butadiene

3.422min (+ 0.006) 1.02 ug/L m

response 6971

Ion	Exp%	Act%
53.10	100.00	100.00
88.00	58.30	59.48
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

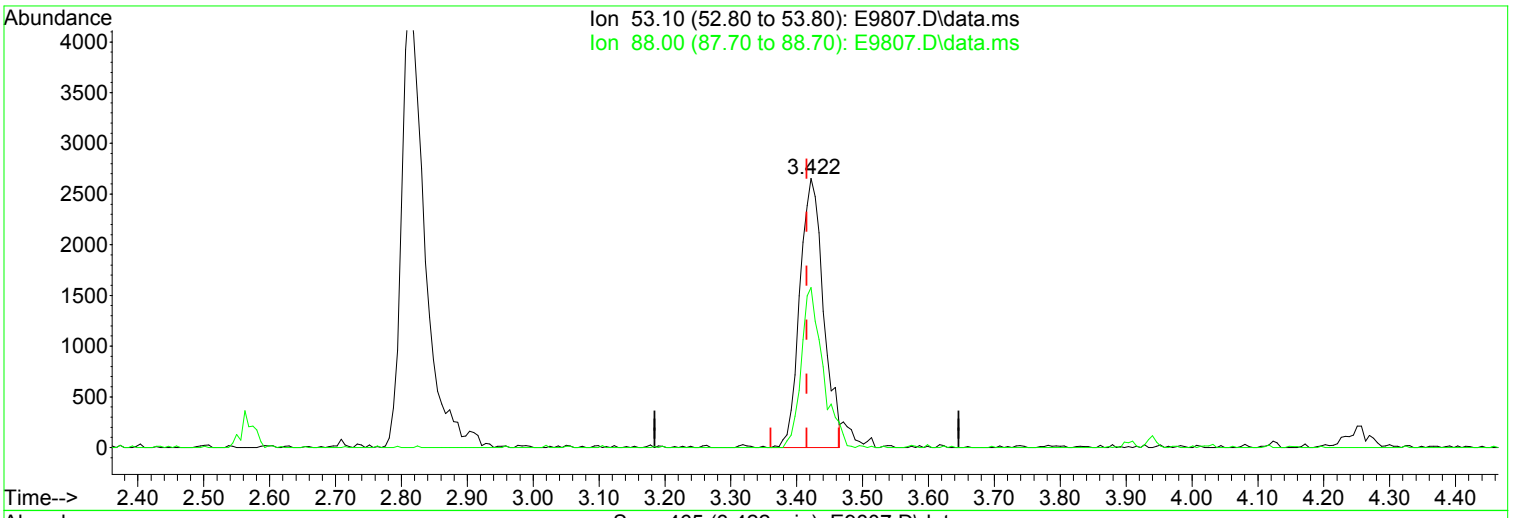
Poor integration.

02/16/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration



TIC: E9807.D\data.ms

(31) 2-Chloro-1,3-Butadiene

3.422min (+ 0.006) 0.97 ug/L

response 6619

Ion	Exp%	Act%
53.10	100.00	100.00
88.00	58.30	59.48
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

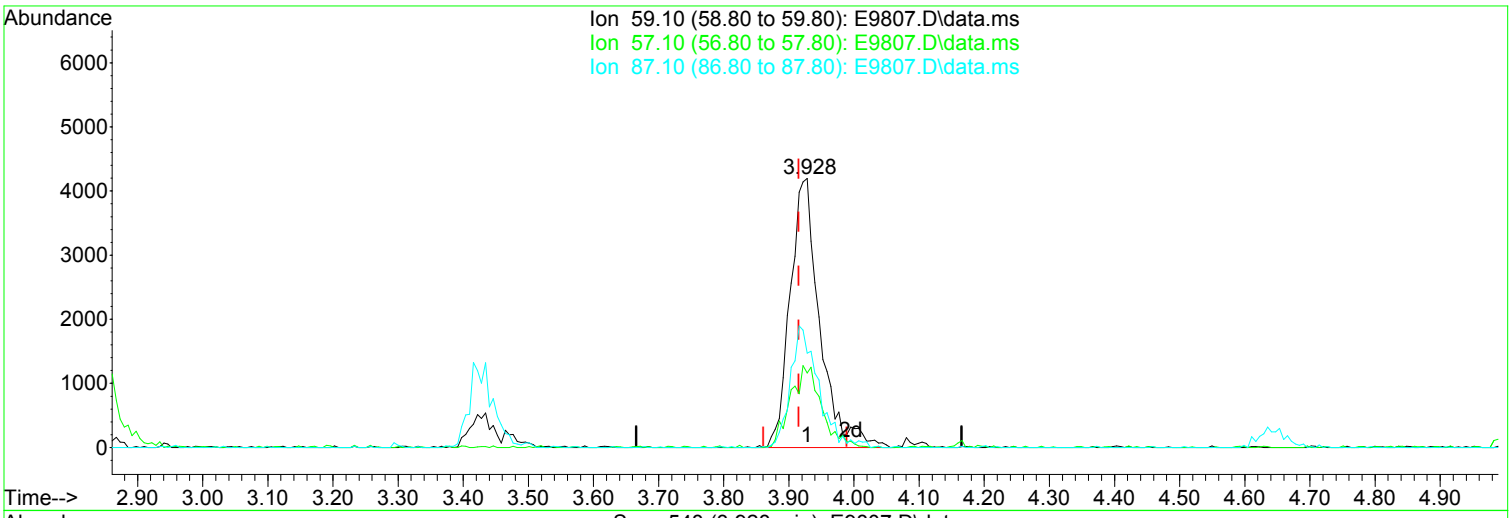
Before

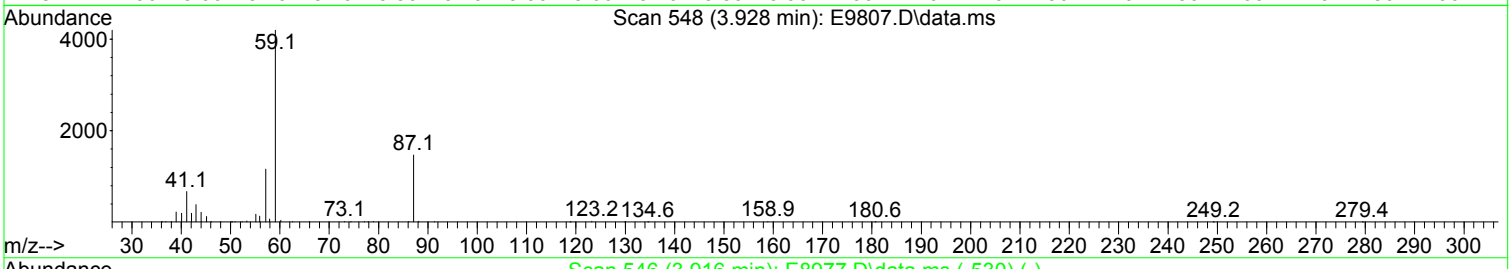
02/16/24

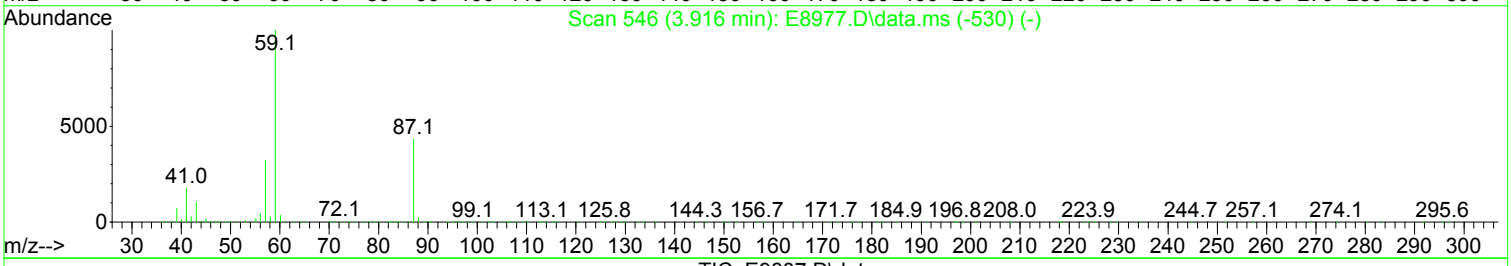
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(32) ETBE

3.928min (+ 0.012) 0.97 ug/L m

response 13295

Ion	Exp%	Act%
59.10	100.00	100.00
57.10	32.40	27.65
87.10	43.30	35.09
0.00	0.00	0.00

Manual Integration:

After

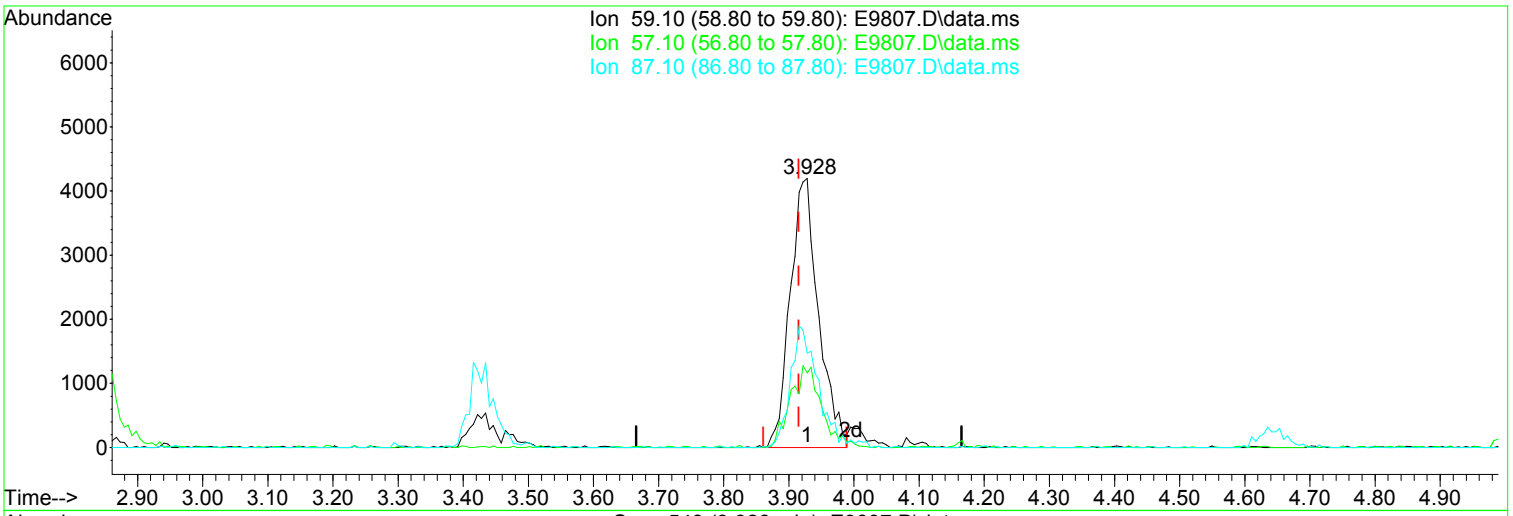
Poor integration.

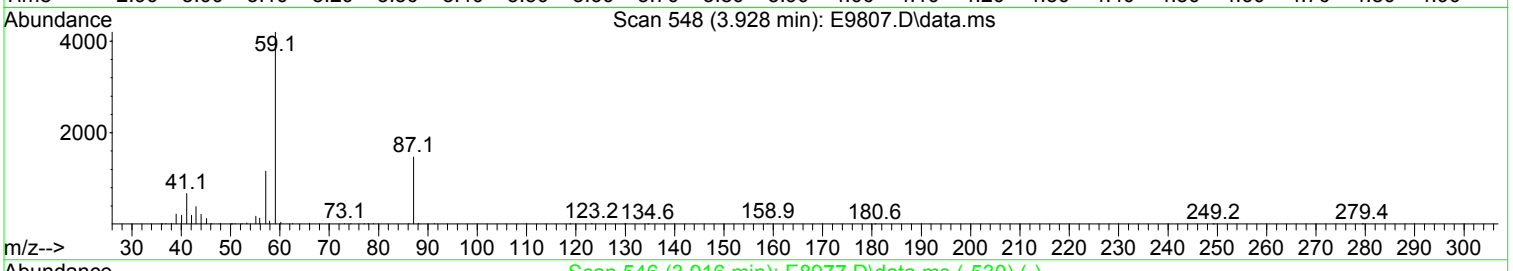
02/16/24

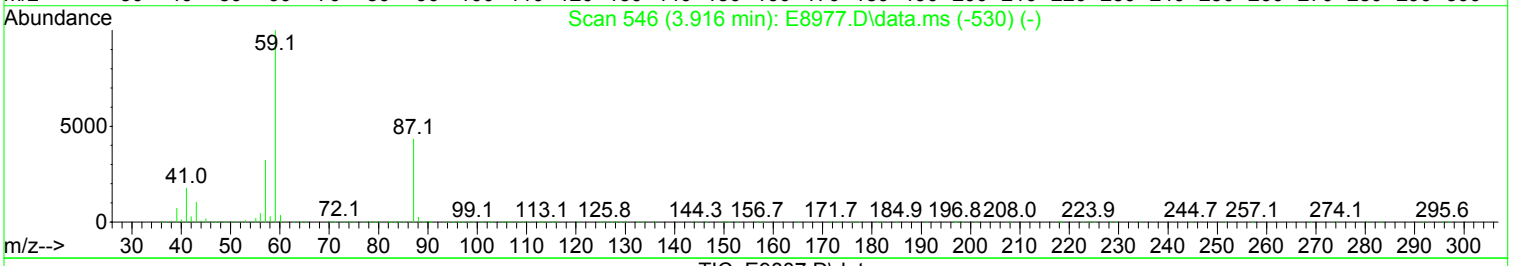
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(32) ETBE

3.928min (+ 0.012) 0.93 ug/L

response 12690

Ion	Exp%	Act%
59.10	100.00	100.00
57.10	32.40	27.65
87.10	43.30	35.09
0.00	0.00	0.00

Manual Integration:

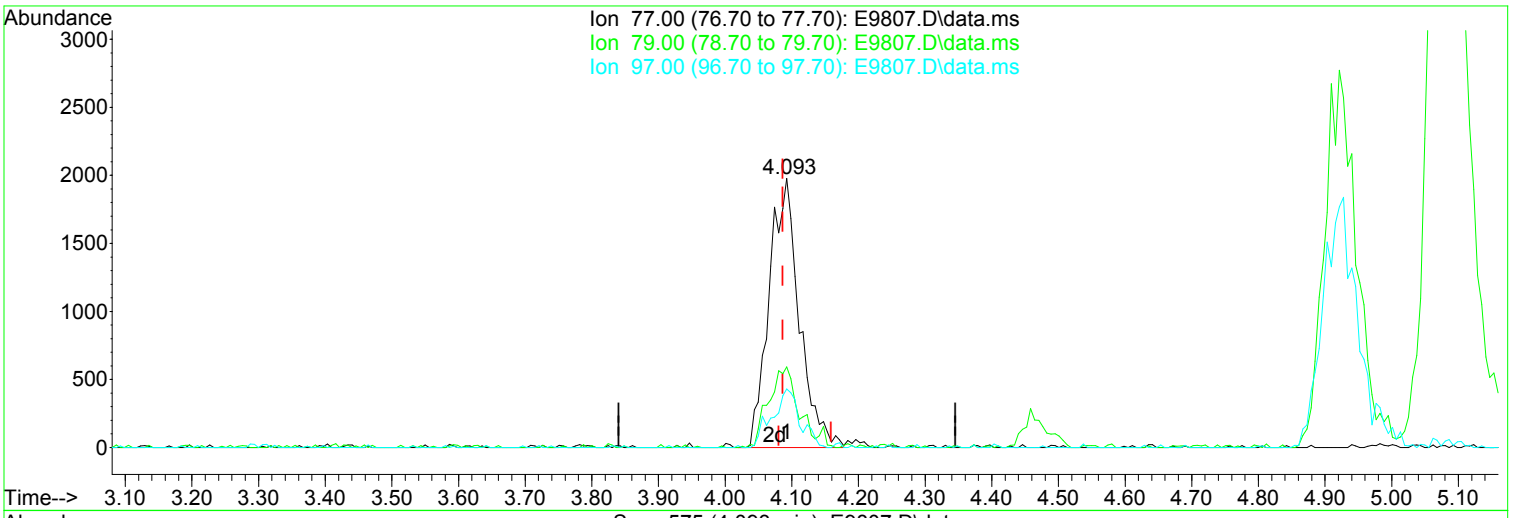
Before

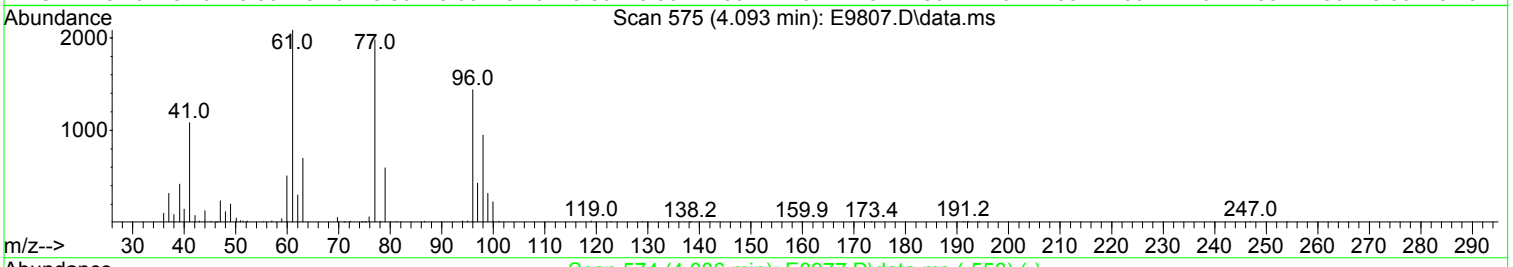
02/16/24

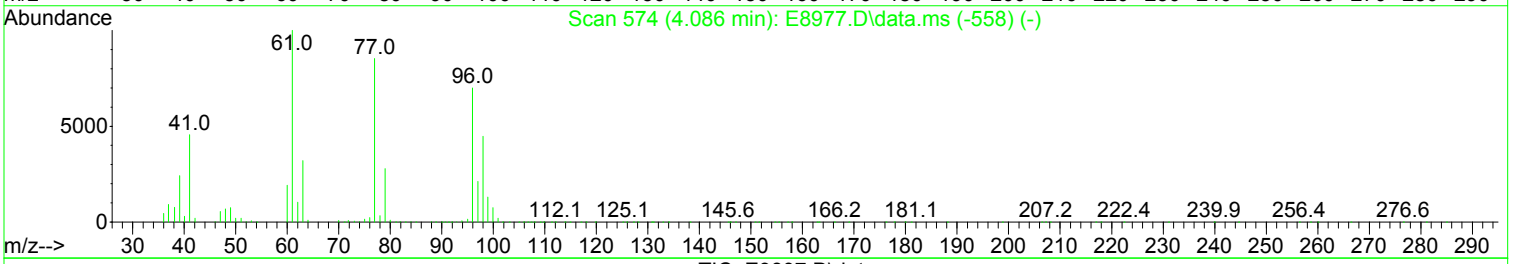
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(33) 2,2-Dichloropropane

4.093min (+ 0.006) 0.97 ug/L m

response 6199

Ion	Exp%	Act%
77.00	100.00	100.00
79.00	32.60	29.99
97.00	25.00	21.75
0.00	0.00	0.00

Manual Integration:

After

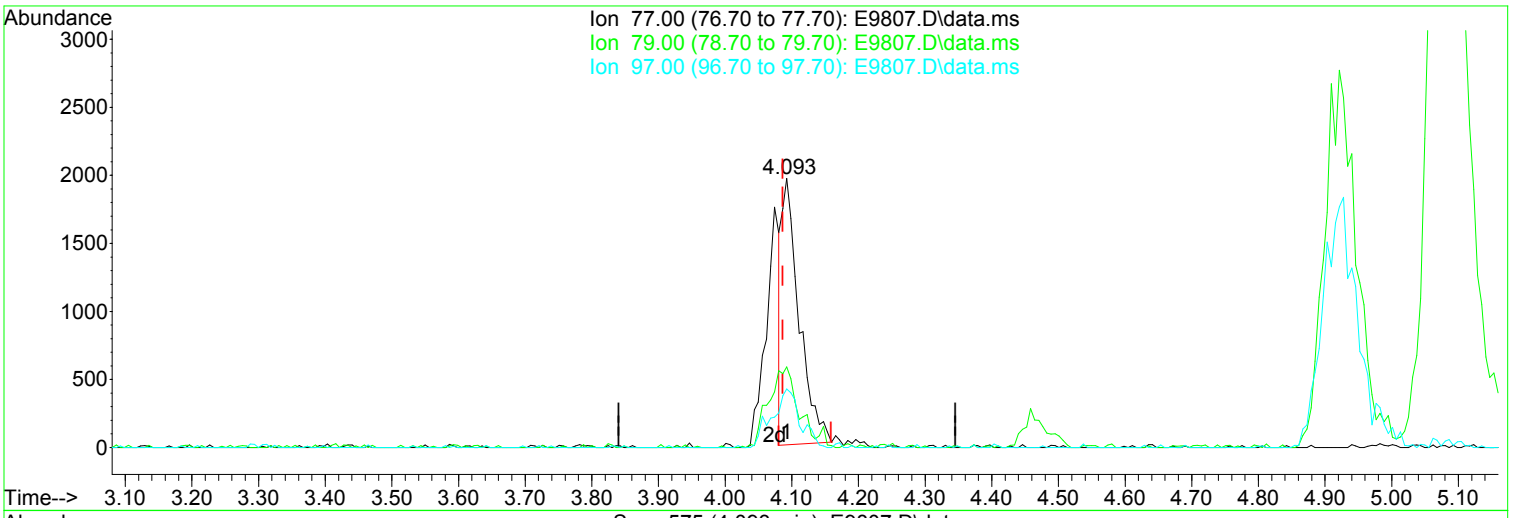
Split Peak.

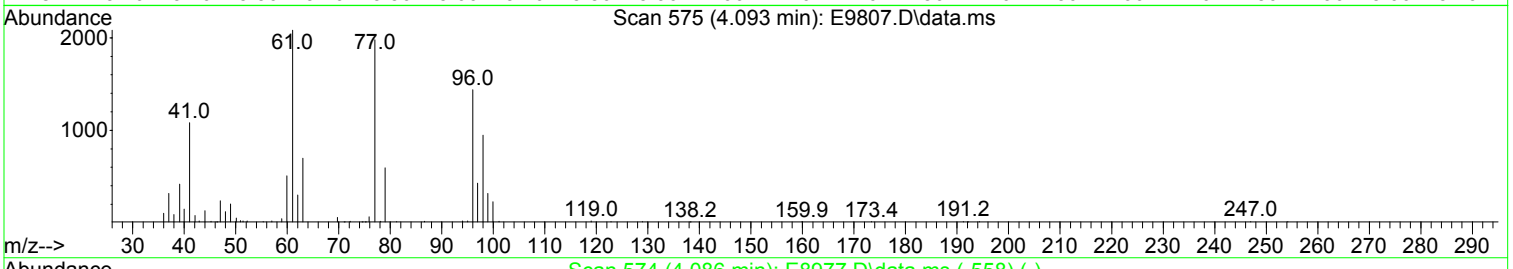
02/16/24

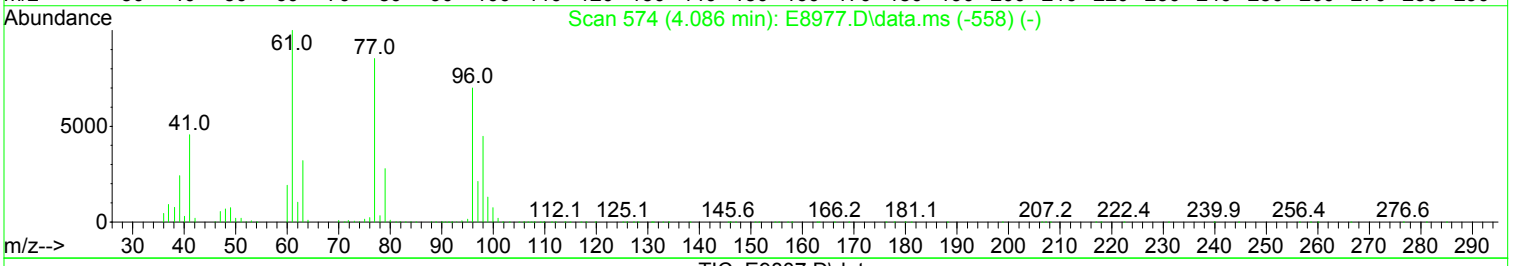
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(33) 2,2-Dichloropropane

4.093min (+ 0.006) 0.55 ug/L

response 3533

Ion	Exp%	Act%
77.00	100.00	100.00
79.00	32.60	29.99
97.00	25.00	21.75
0.00	0.00	0.00

Manual Integration:

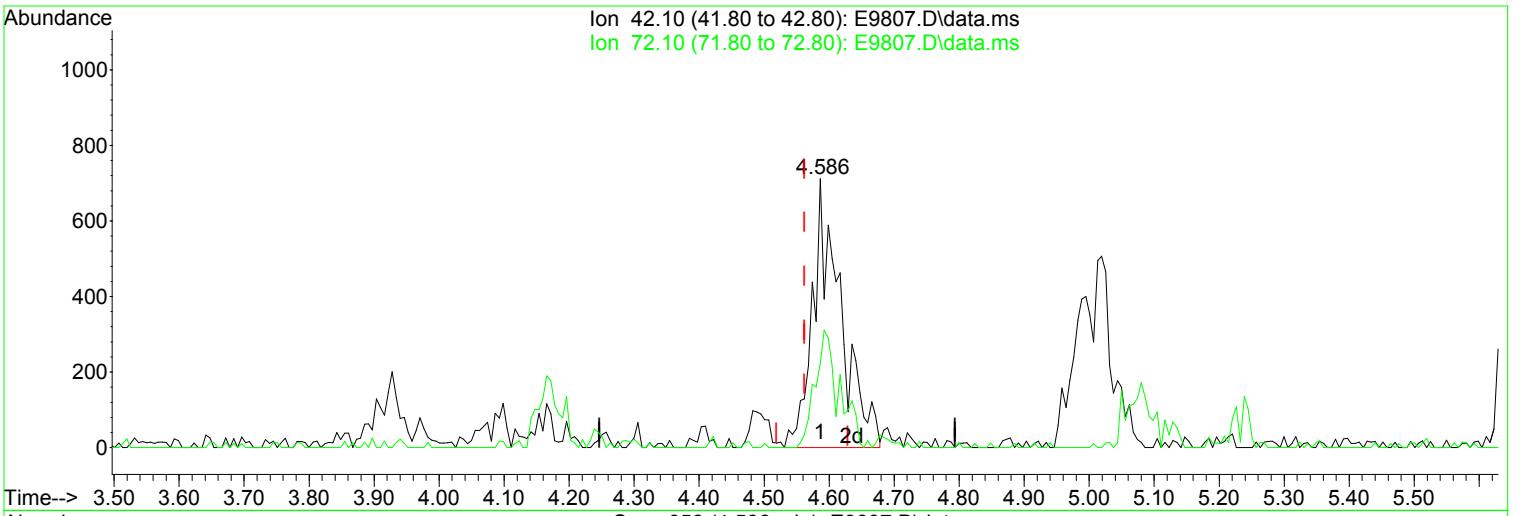
Before

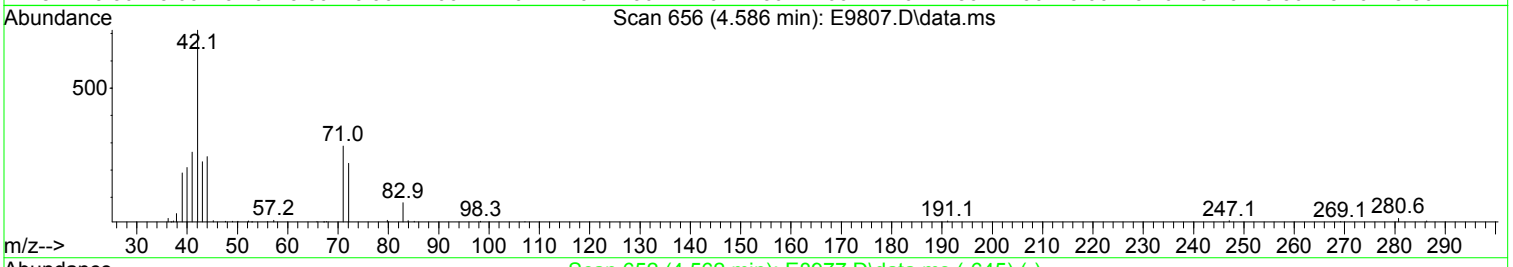
02/16/24

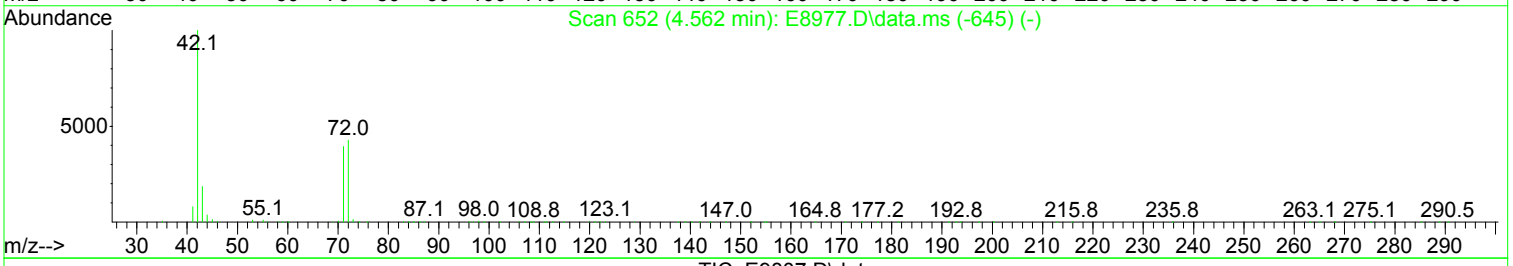
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(39) Tetrahydrofuran

4.586min (+ 0.024) 1.19 ug/L m

response 2143

Ion	Exp%	Act%
42.10	100.00	100.00
72.10	41.70	31.46
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

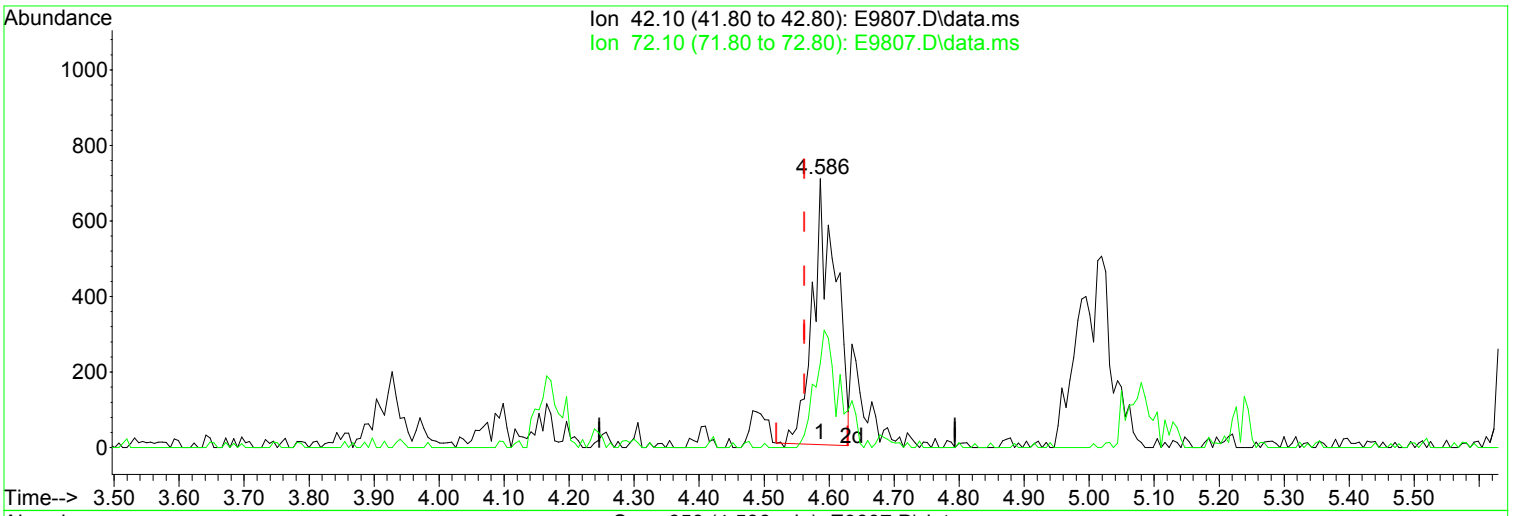
Split Peak.

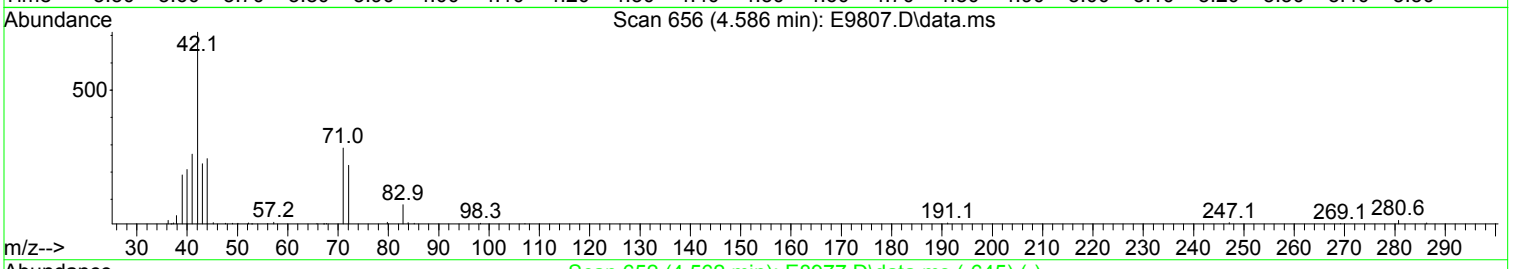
02/16/24

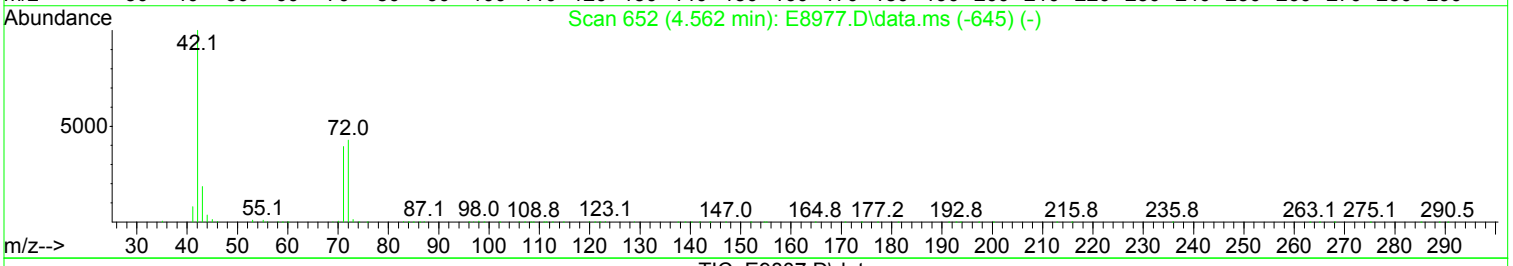
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(39) Tetrahydrofuran

4.586min (+ 0.024) 0.95 ug/L

response 1721

Ion	Exp%	Act%
42.10	100.00	100.00
72.10	41.70	31.46
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

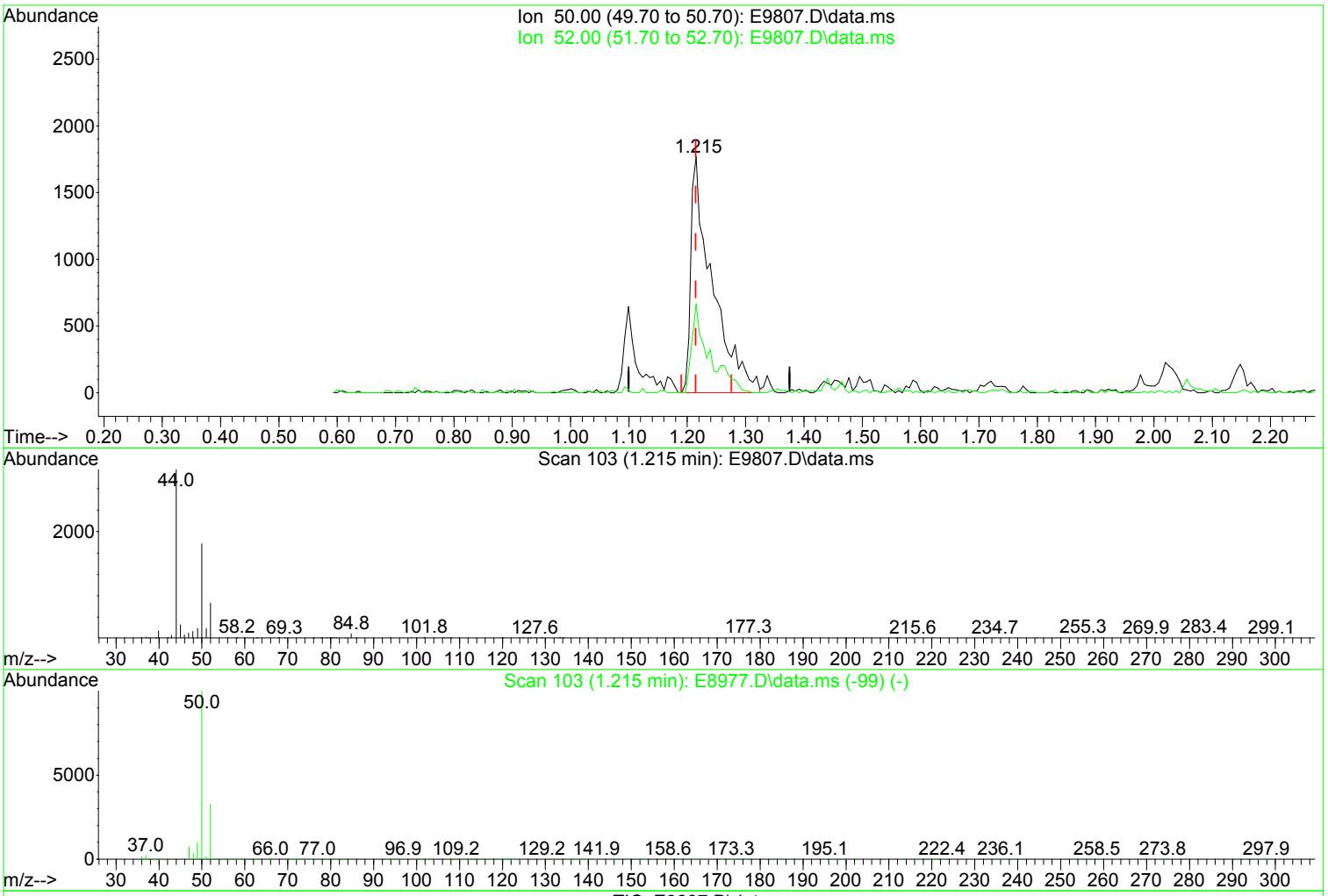
Before

02/16/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration



TIC: E9807.D\data.ms

(4) Chloromethane (P)

1.215min (-0.000) 0.88 ug/L m

response 4519

Ion	Exp%	Act%
50.00	100.00	100.00
52.00	32.80	37.54
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

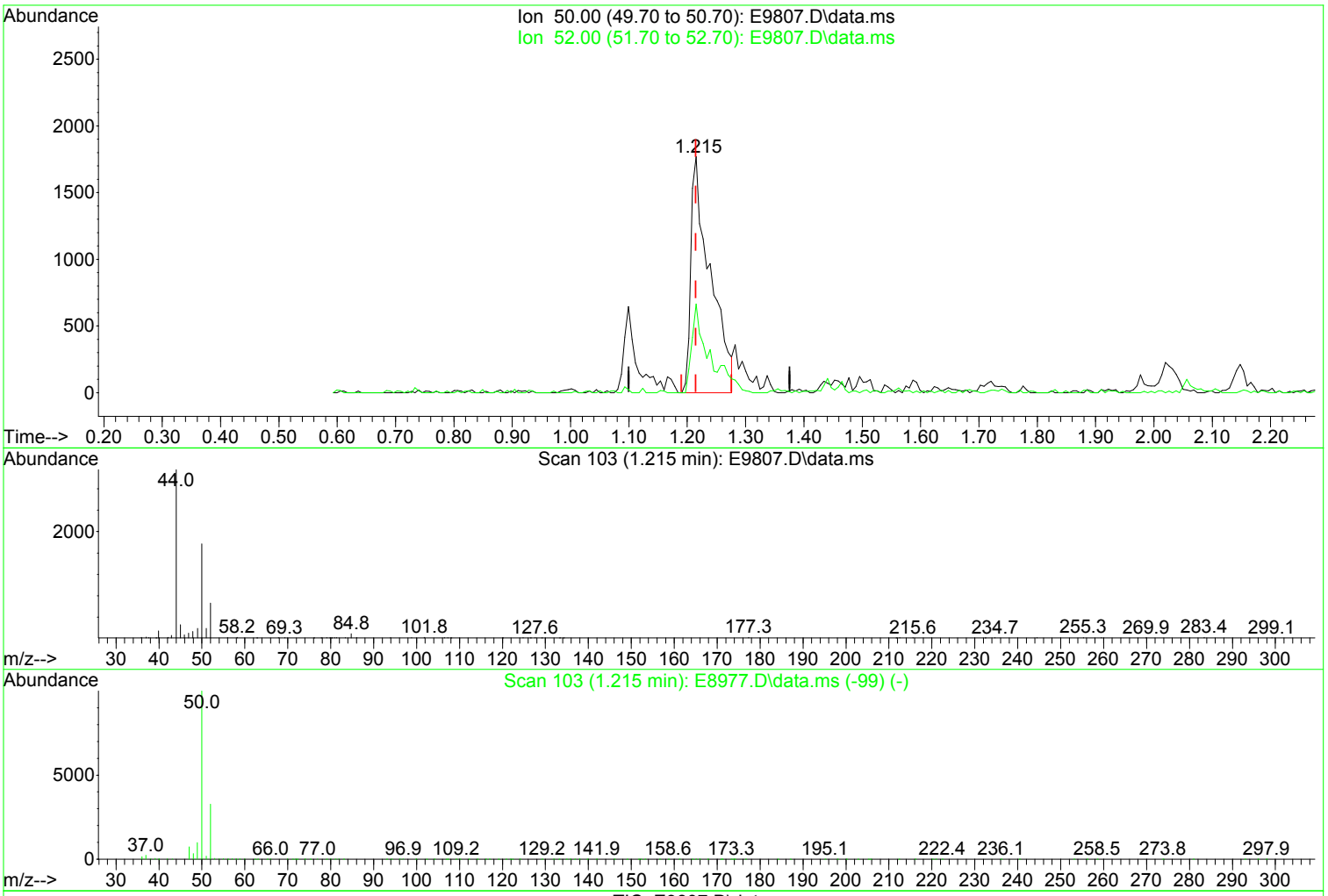
Poor integration.

02/16/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration



TIC: E9807.D\data.ms

(4) Chloromethane (P)

1.215min (-0.000) 0.79 ug/L

response 4058

Ion	Exp%	Act%
50.00	100.00	100.00
52.00	32.80	37.54
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

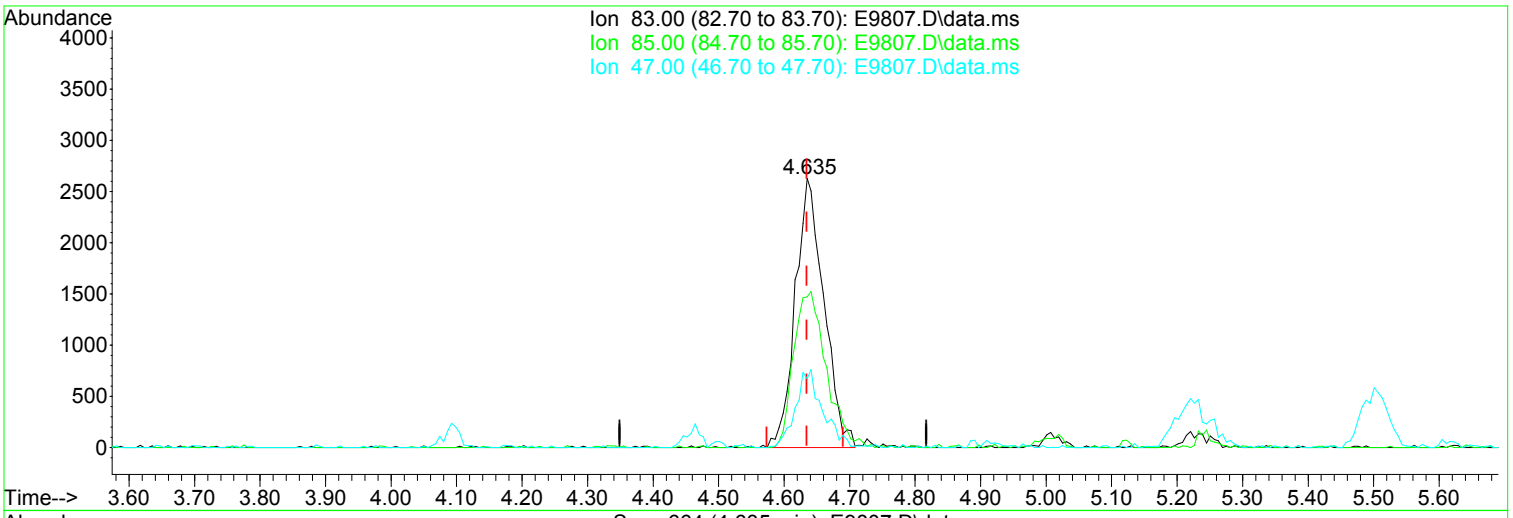
Before

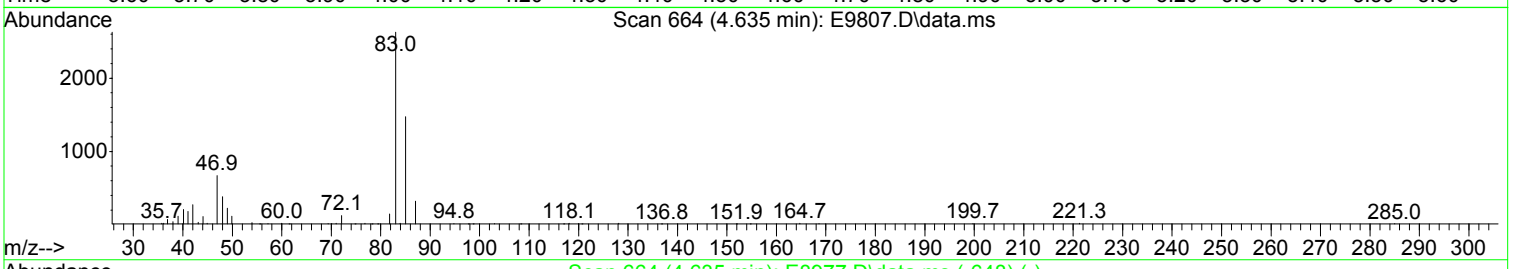
02/16/24

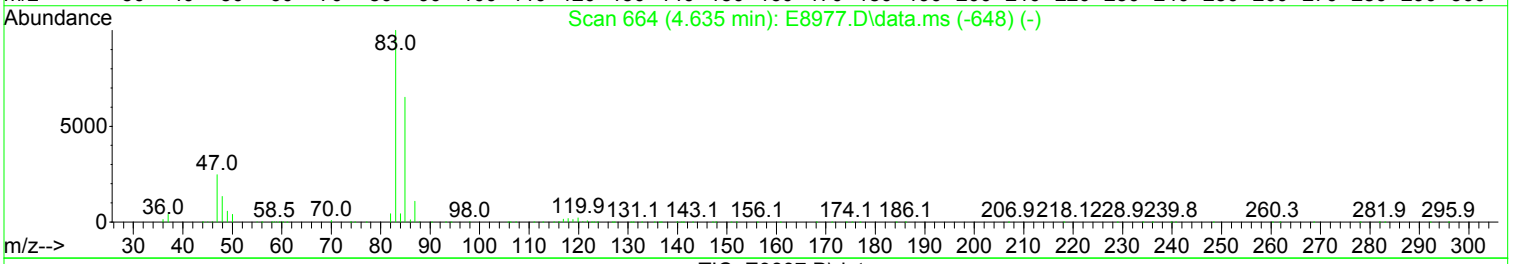
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(40) Chloroform (P)

4.635min (-0.000) 1.04 ug/L m

response 7959

Ion	Exp%	Act%
83.00	100.00	100.00
85.00	65.20	56.05
47.00	25.00	25.57
0.00	0.00	0.00

Manual Integration:

After

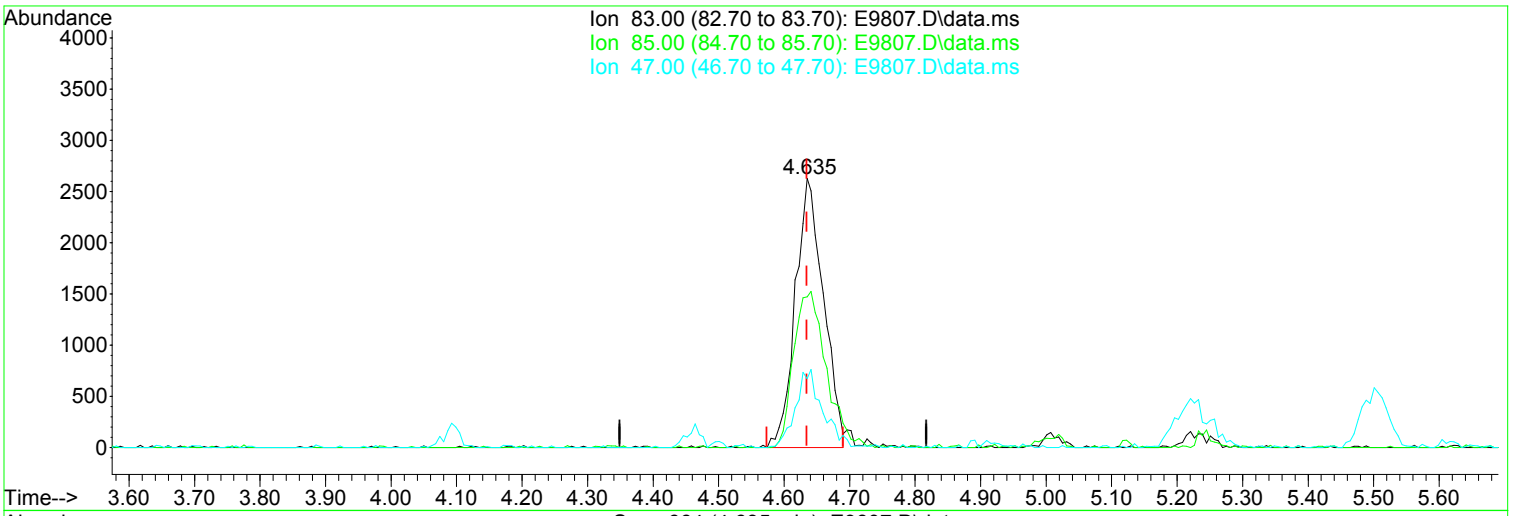
Poor integration.

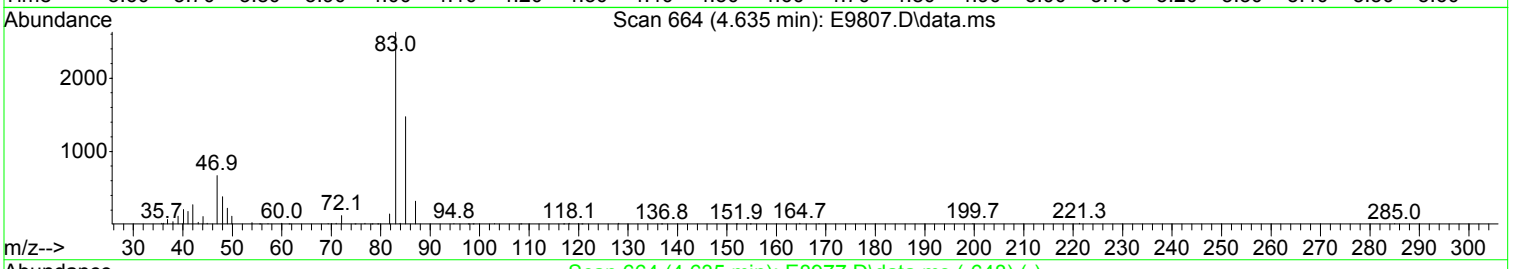
02/16/24

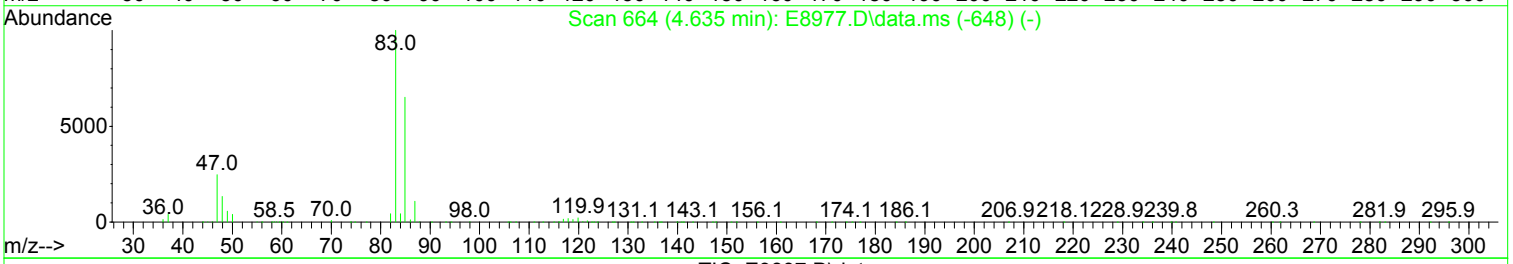
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(40) Chloroform (P)

4.635min (-0.000) 1.02 ug/L

response 7830

Ion	Exp%	Act%
83.00	100.00	100.00
85.00	65.20	56.05
47.00	25.00	25.57
0.00	0.00	0.00

Manual Integration:

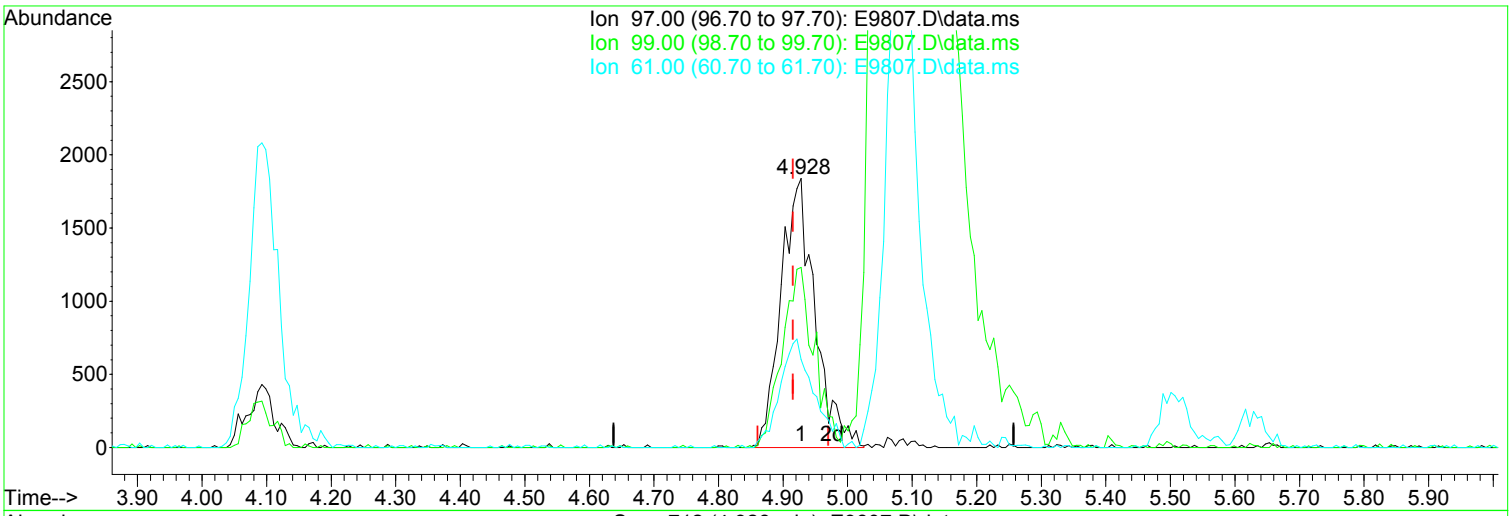
Before

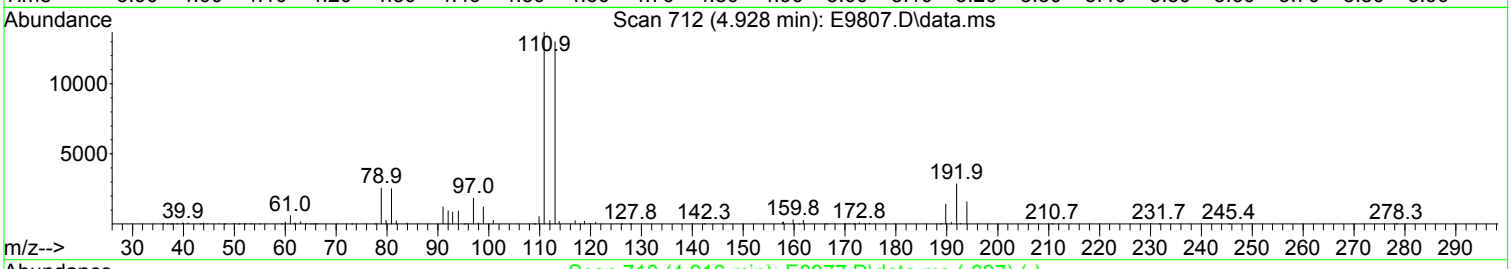
02/16/24

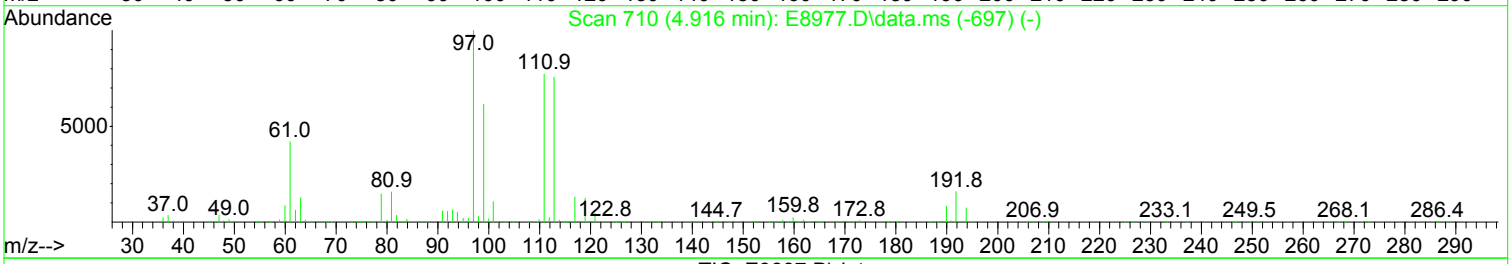
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(41) 1,1,1-Trichloroethane (P)

4.928min (+ 0.012) 0.99 ug/L m

response 6684

Ion	Exp%	Act%
97.00	100.00	100.00
99.00	61.40	66.92
61.00	41.90	32.70
0.00	0.00	0.00

Manual Integration:

After

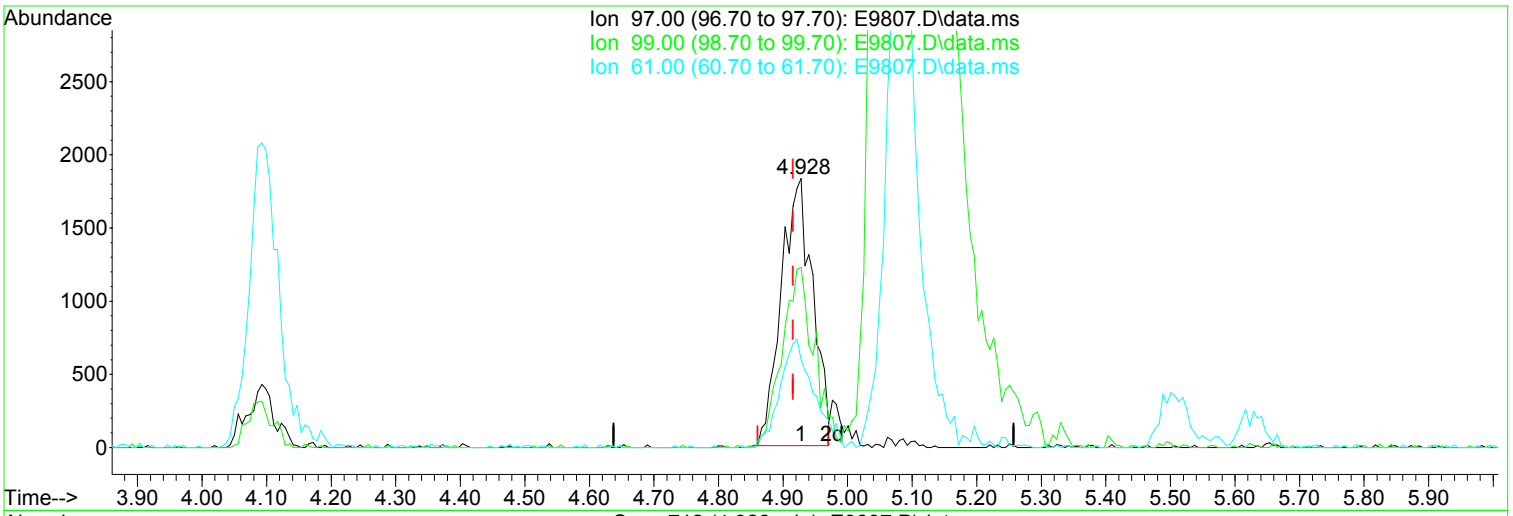
Poor integration.

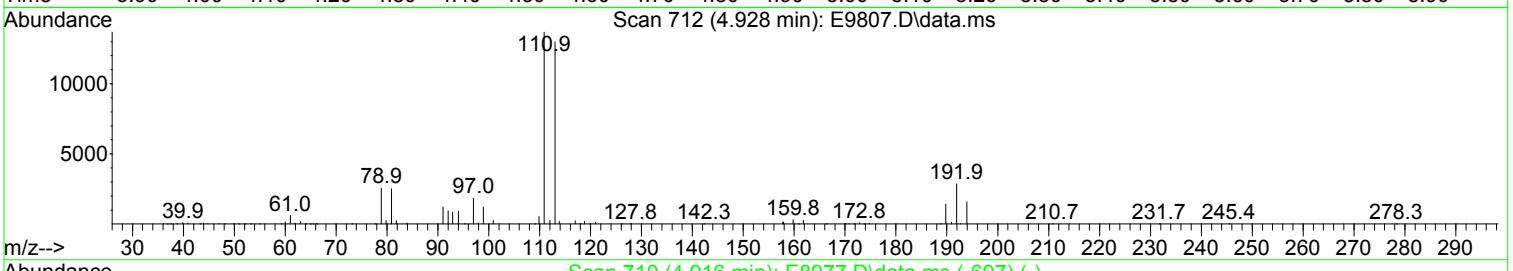
02/16/24

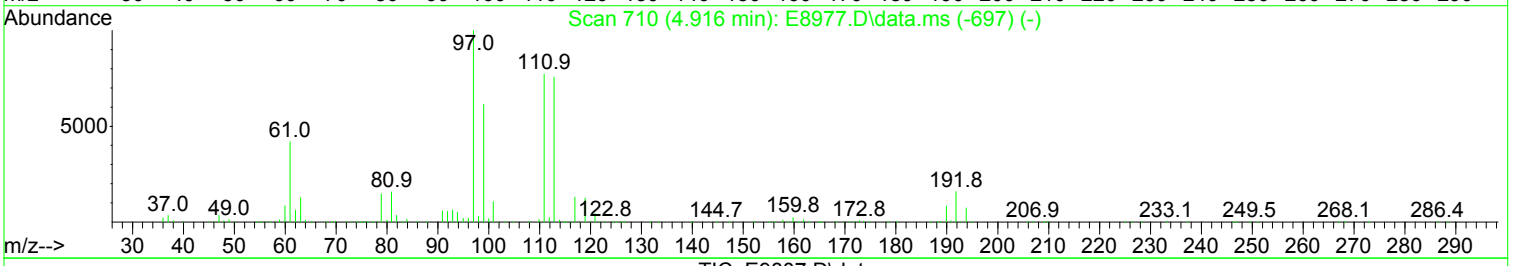
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(41) 1,1,1-Trichloroethane (P)

4.928min (+ 0.012) 0.91 ug/L

response 6136

Ion	Exp%	Act%
97.00	100.00	100.00
99.00	61.40	66.92
61.00	41.90	32.70
0.00	0.00	0.00

Manual Integration:

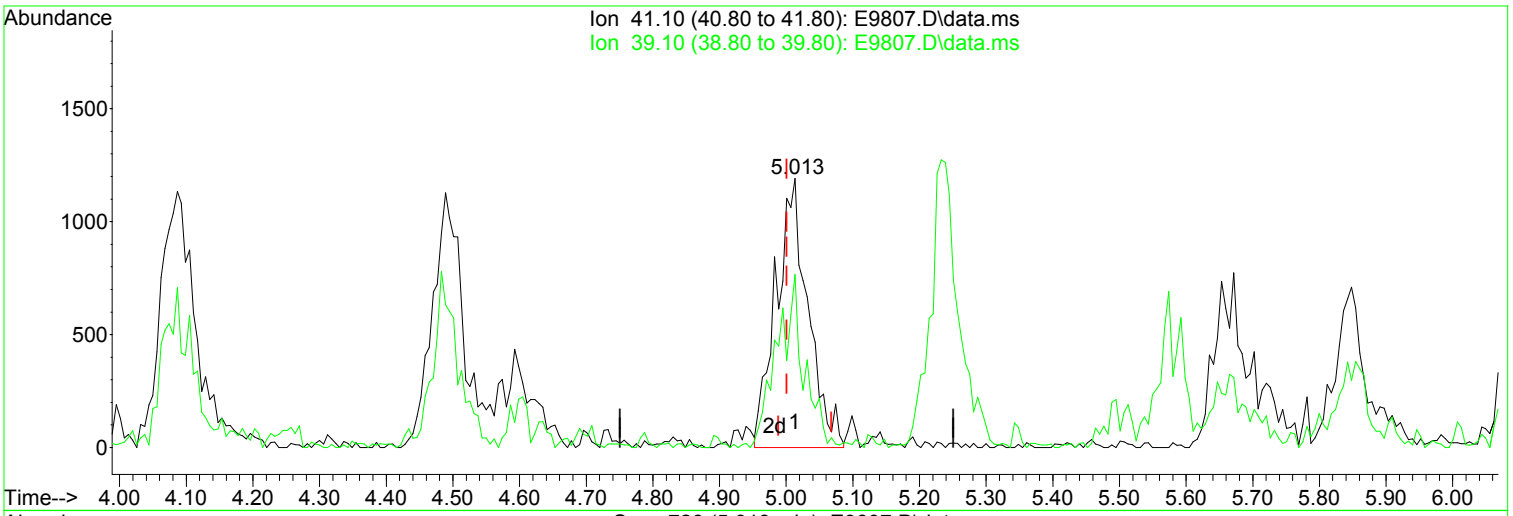
Before

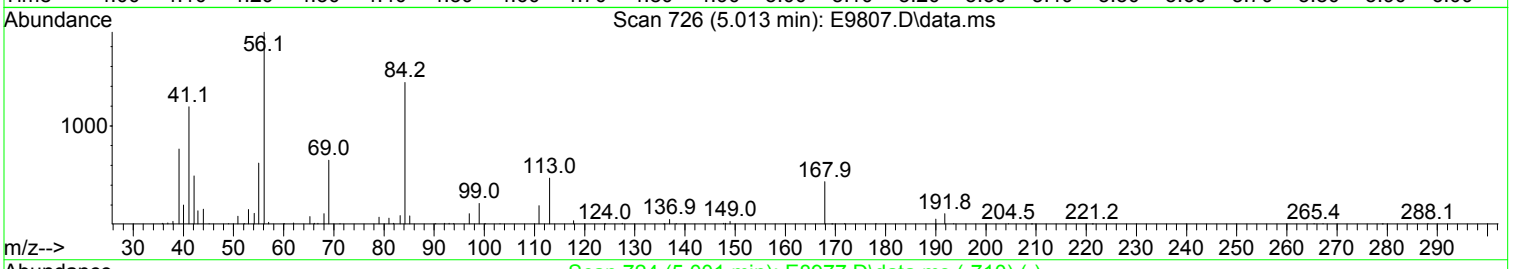
02/16/24

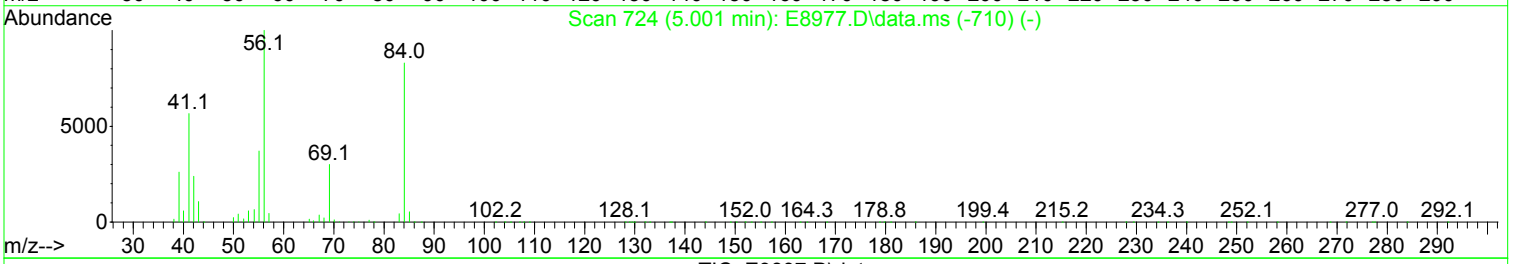
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(44) Cyclohexane (P)

5.013min (+ 0.012) 0.98 ug/L m

response 3980

Ion	Exp%	Act%
41.10	100.00	100.00
39.10	46.60	64.40
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

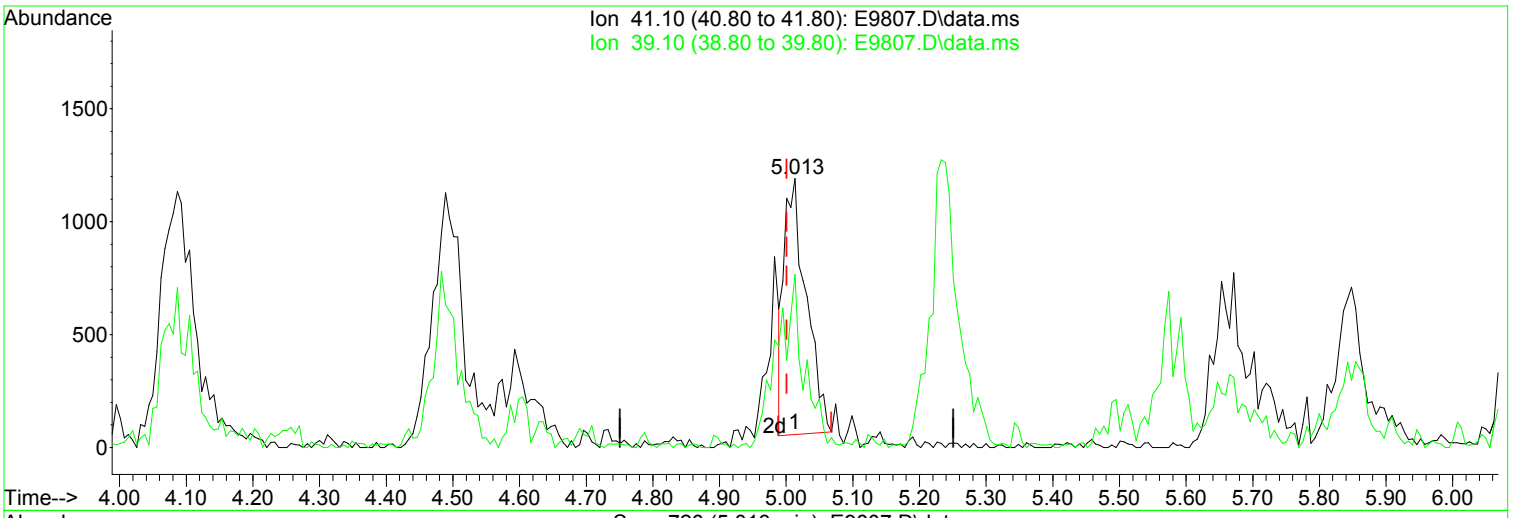
Split Peak.

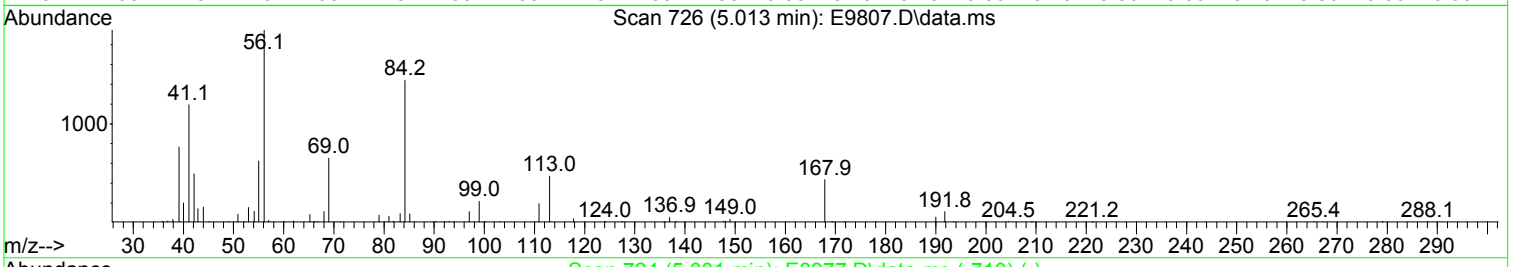
02/16/24

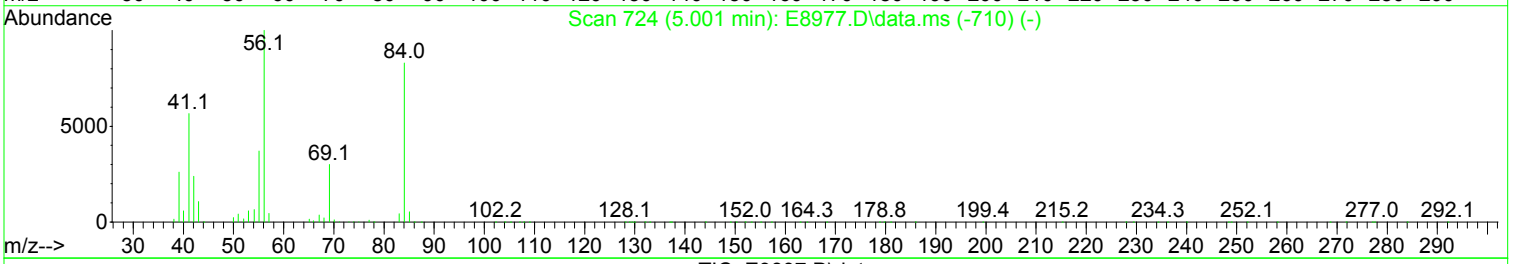
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(44) Cyclohexane (P)

5.013min (+ 0.012) 0.64 ug/L

response 2617

Ion	Exp%	Act%
41.10	100.00	100.00
39.10	46.60	64.40
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

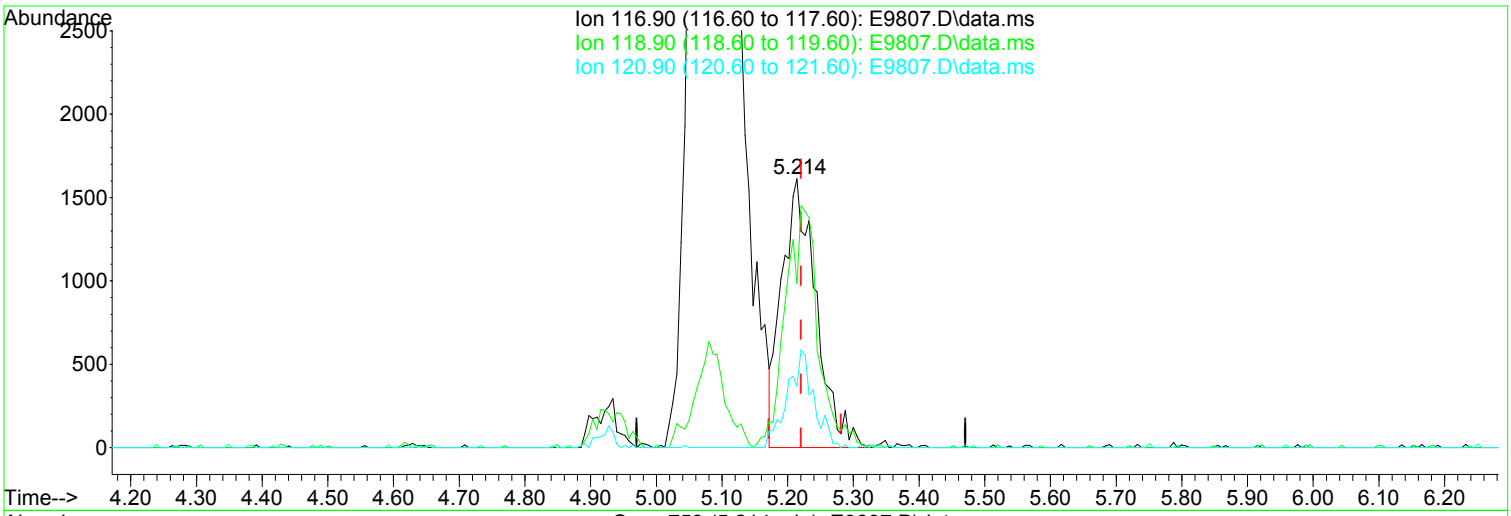
Before

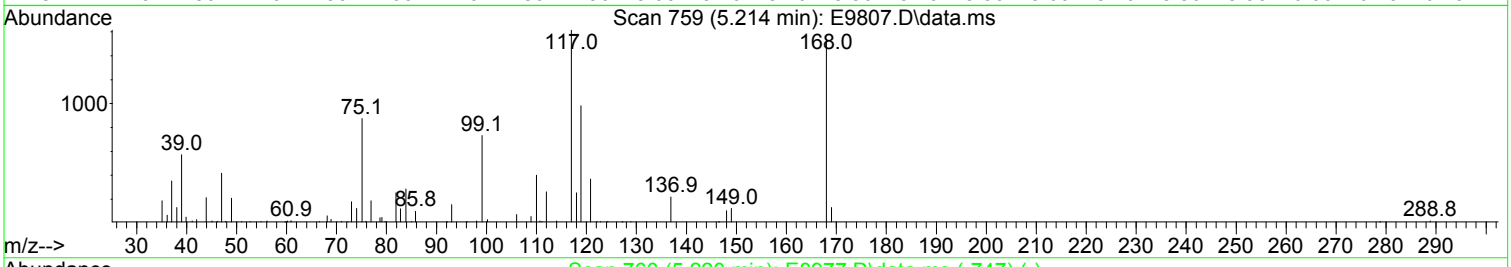
02/16/24

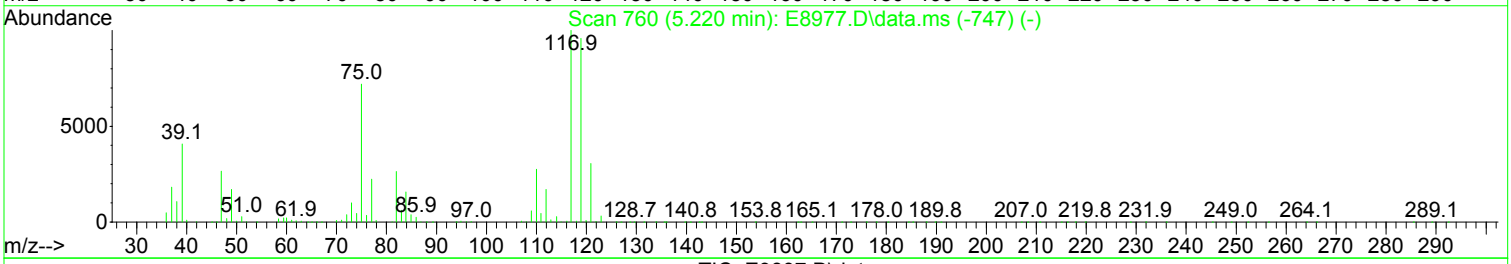
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(46) Carbontetrachloride (P)

5.214min (-0.006) 0.94 ug/L m

response 5815

Ion	Exp%	Act%
116.90	100.00	100.00
118.90	94.80	60.90#
120.90	30.20	22.86
0.00	0.00	0.00

Manual Integration:

After

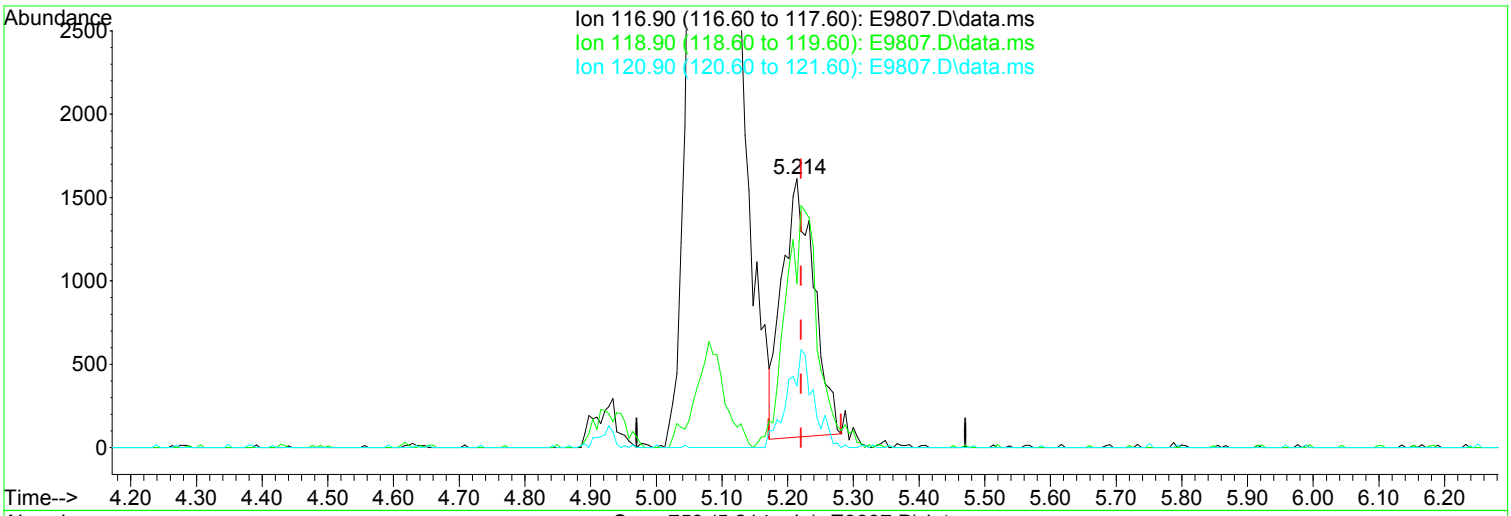
Poor integration.

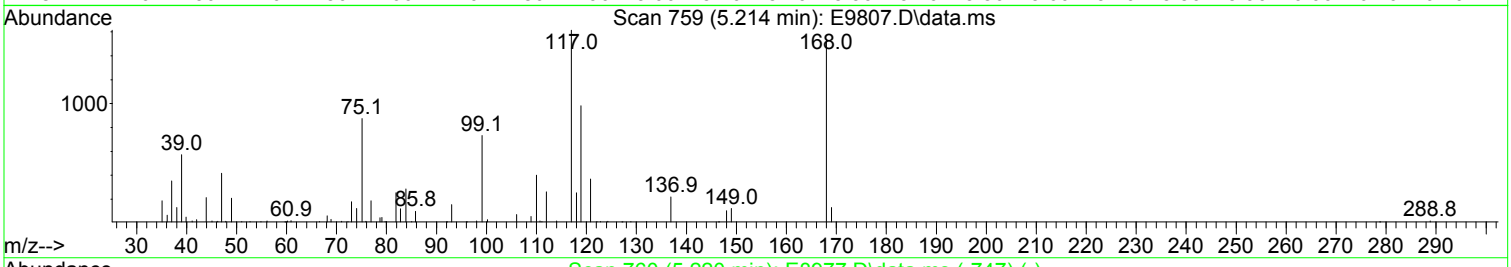
02/16/24

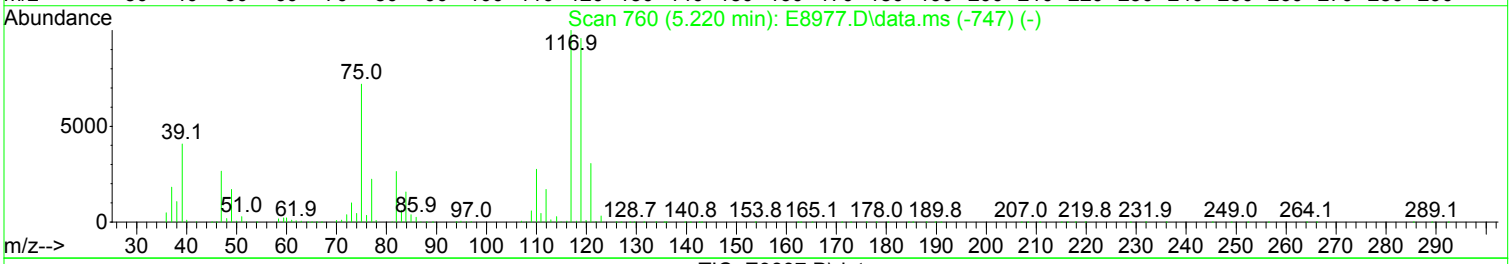
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(46) Carbontetrachloride (P)

5.214min (-0.006) 0.84 ug/L

response 5192

Ion	Exp%	Act%
116.90	100.00	100.00
118.90	94.80	60.90#
120.90	30.20	22.86
0.00	0.00	0.00

Manual Integration:

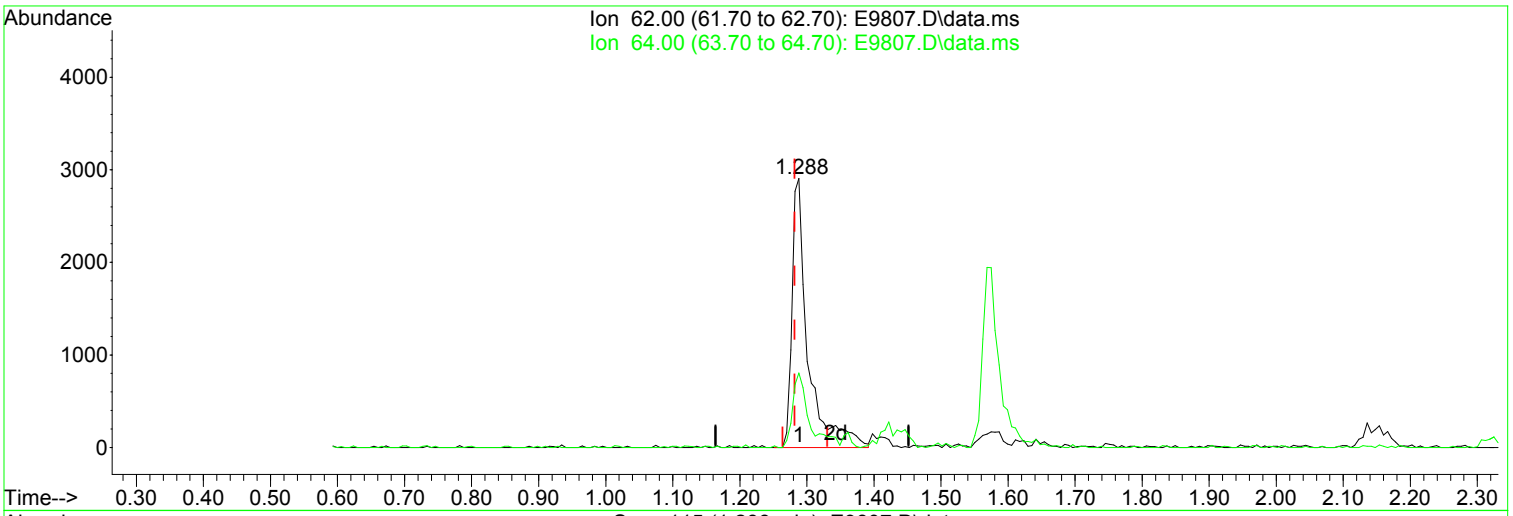
Before

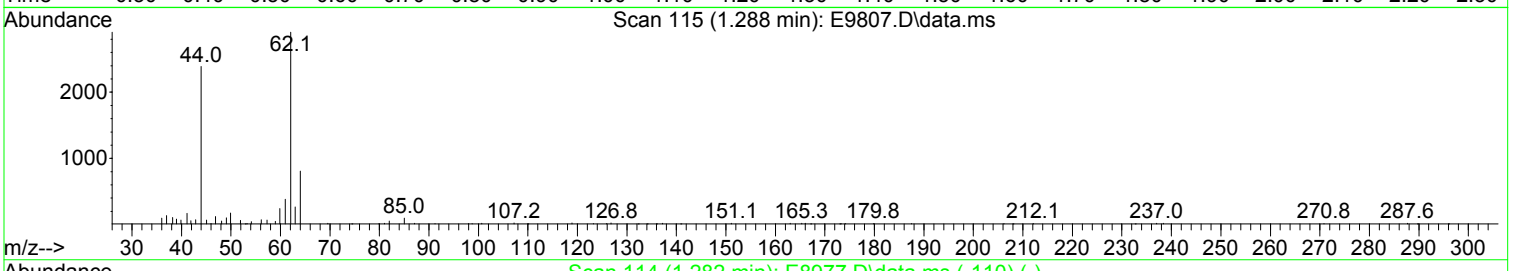
02/16/24

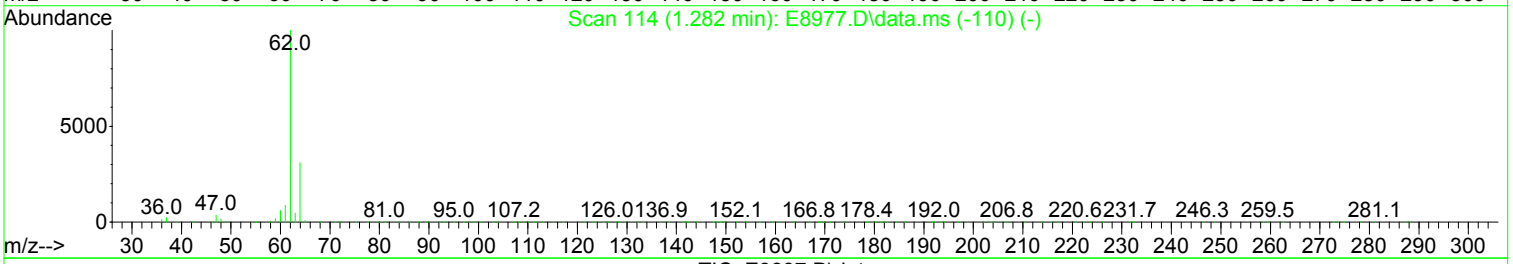
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(5) Vinyl Chloride (P)

1.288min (+ 0.006) 0.84 ug/L m

response 4811

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	31.20	27.74
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

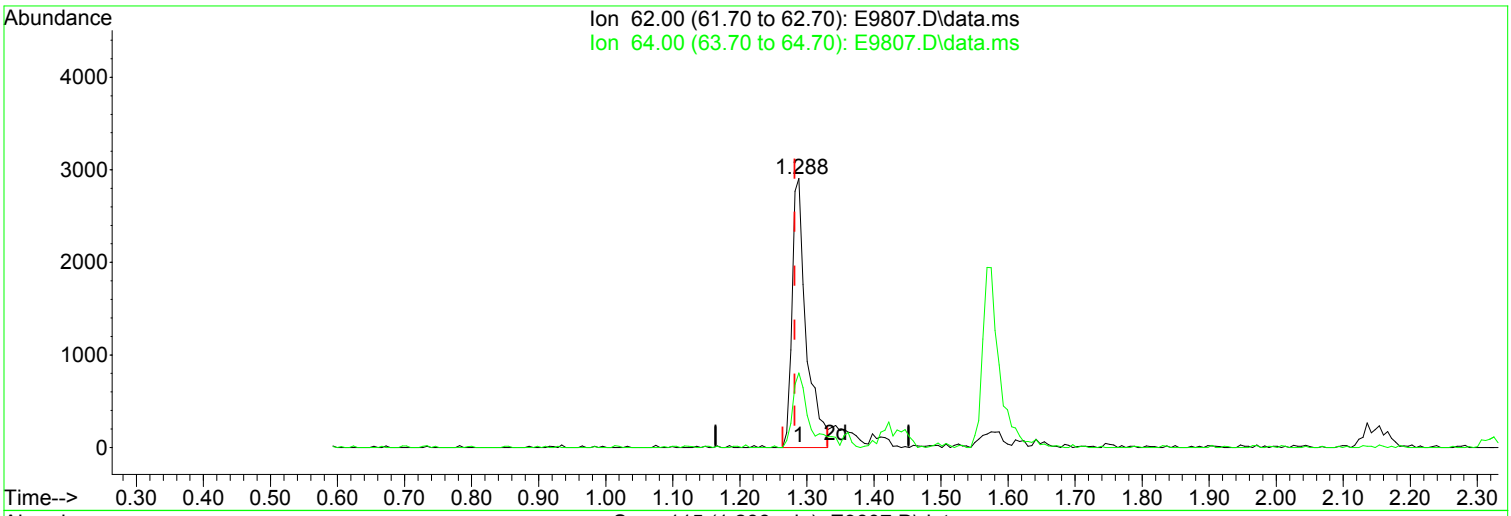
Poor integration.

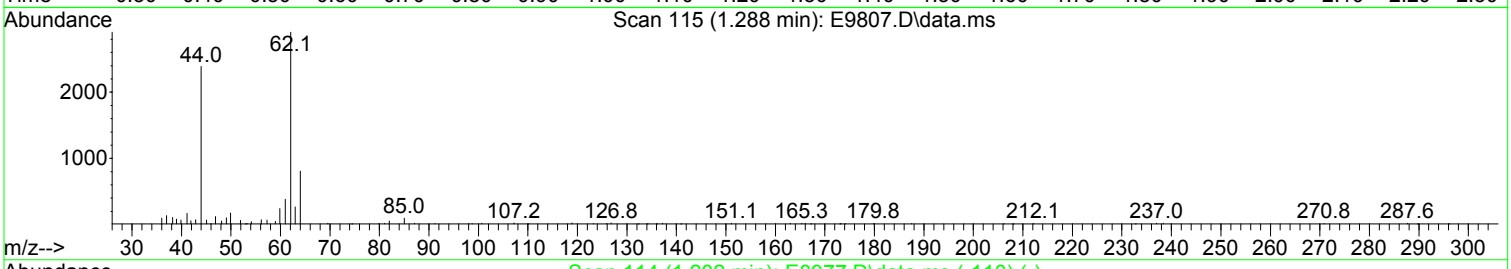
02/16/24

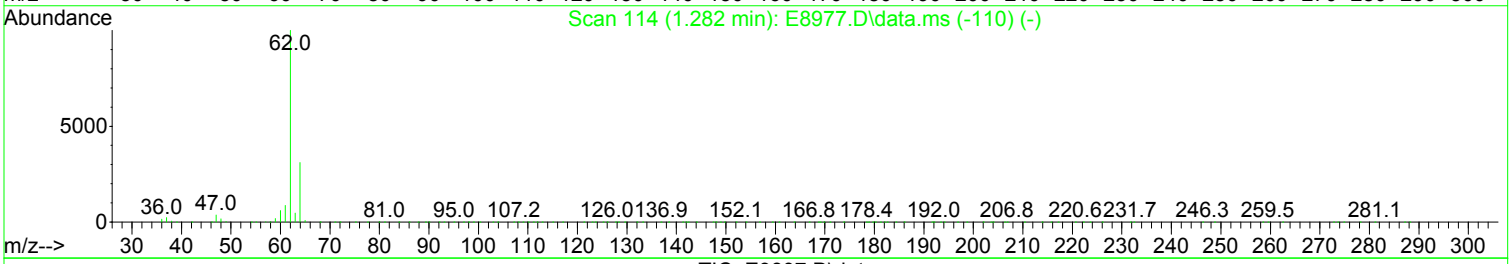
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(5) Vinyl Chloride (P)

1.288min (+ 0.006) 0.75 ug/L

response 4279

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	31.20	27.74
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

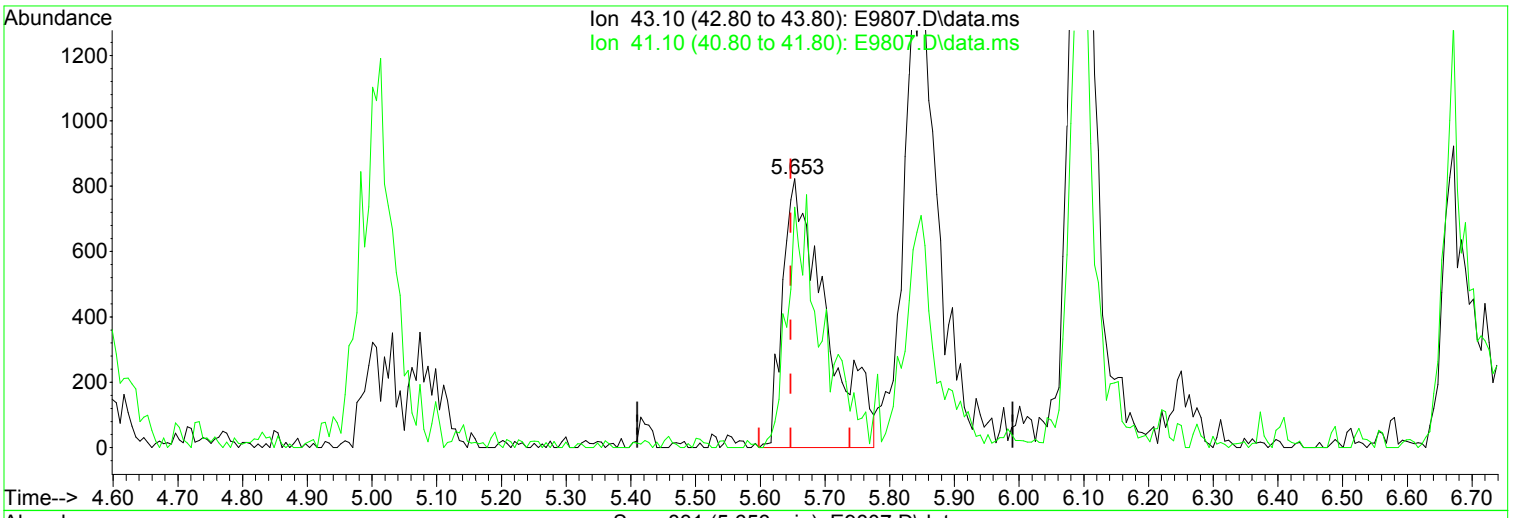
02/16/24

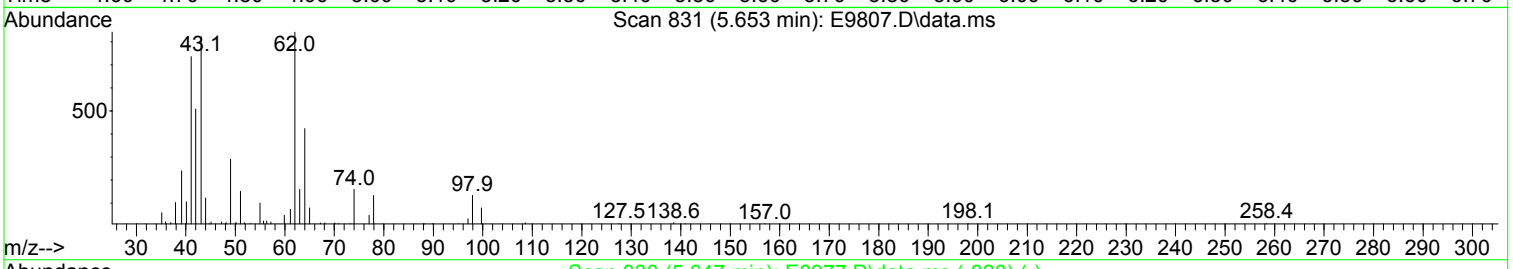
1st 02/16/24
2nd 02/16/24

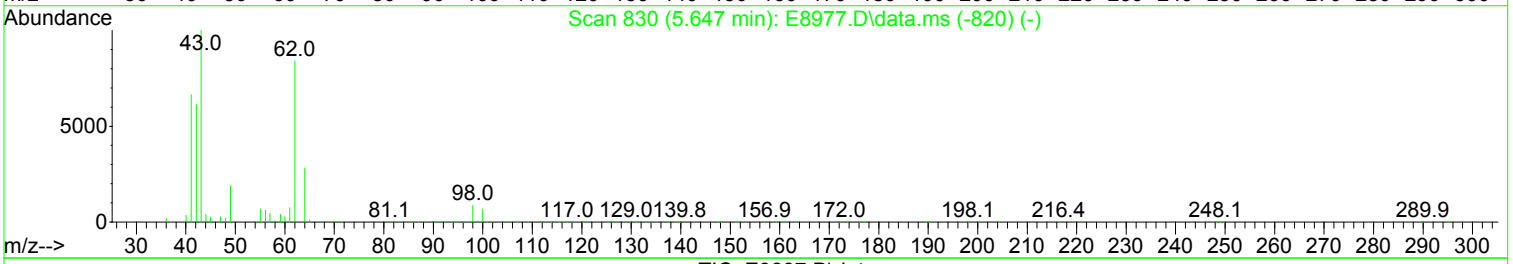
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(51) Iso-Butyl Alcohol

5.653min (+ 0.006) 21.02 ug/L m

response 3810

Ion	Exp%	Act%
43.10	100.00	100.00
41.10	66.90	89.43#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

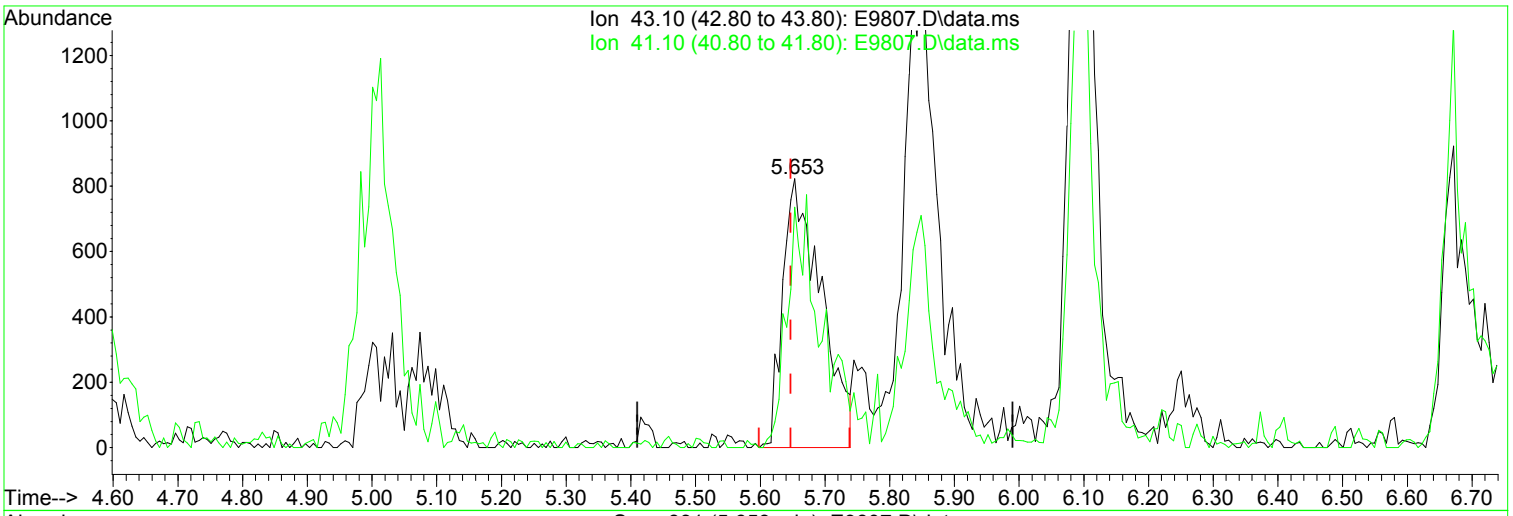
Poor integration.

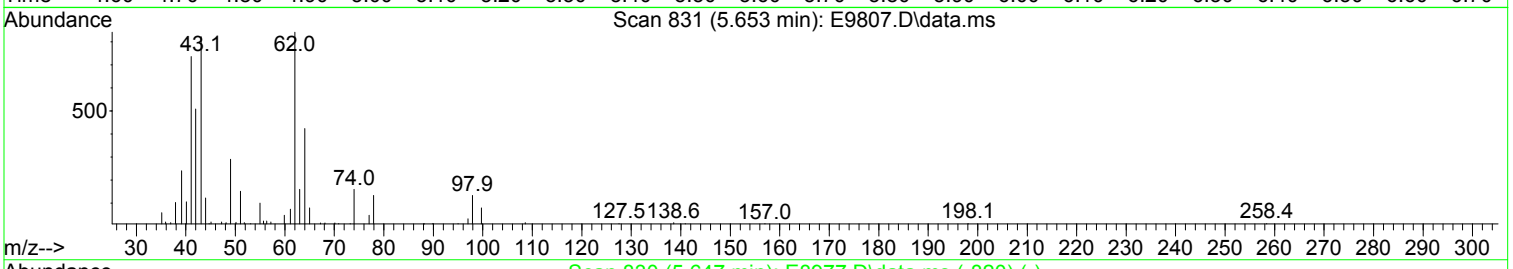
02/16/24

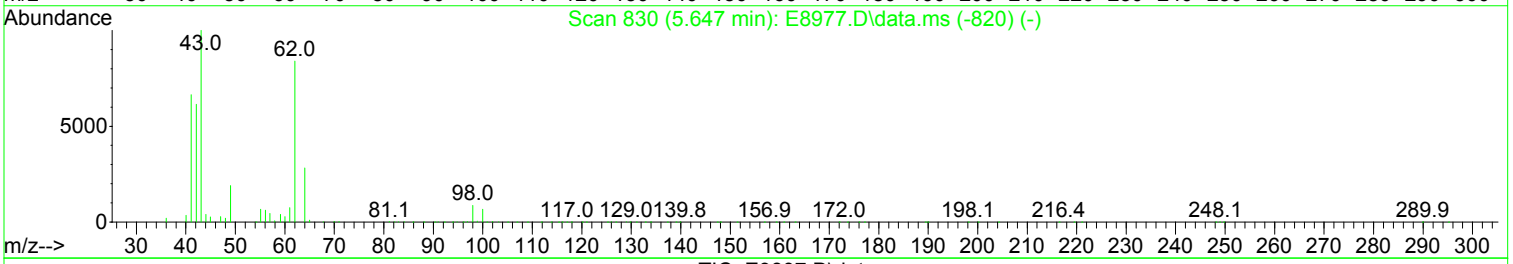
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(51) Iso-Butyl Alcohol

5.653min (+ 0.006) 18.61 ug/L

response 3373

Ion	Exp%	Act%
43.10	100.00	100.00
41.10	66.90	89.43#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

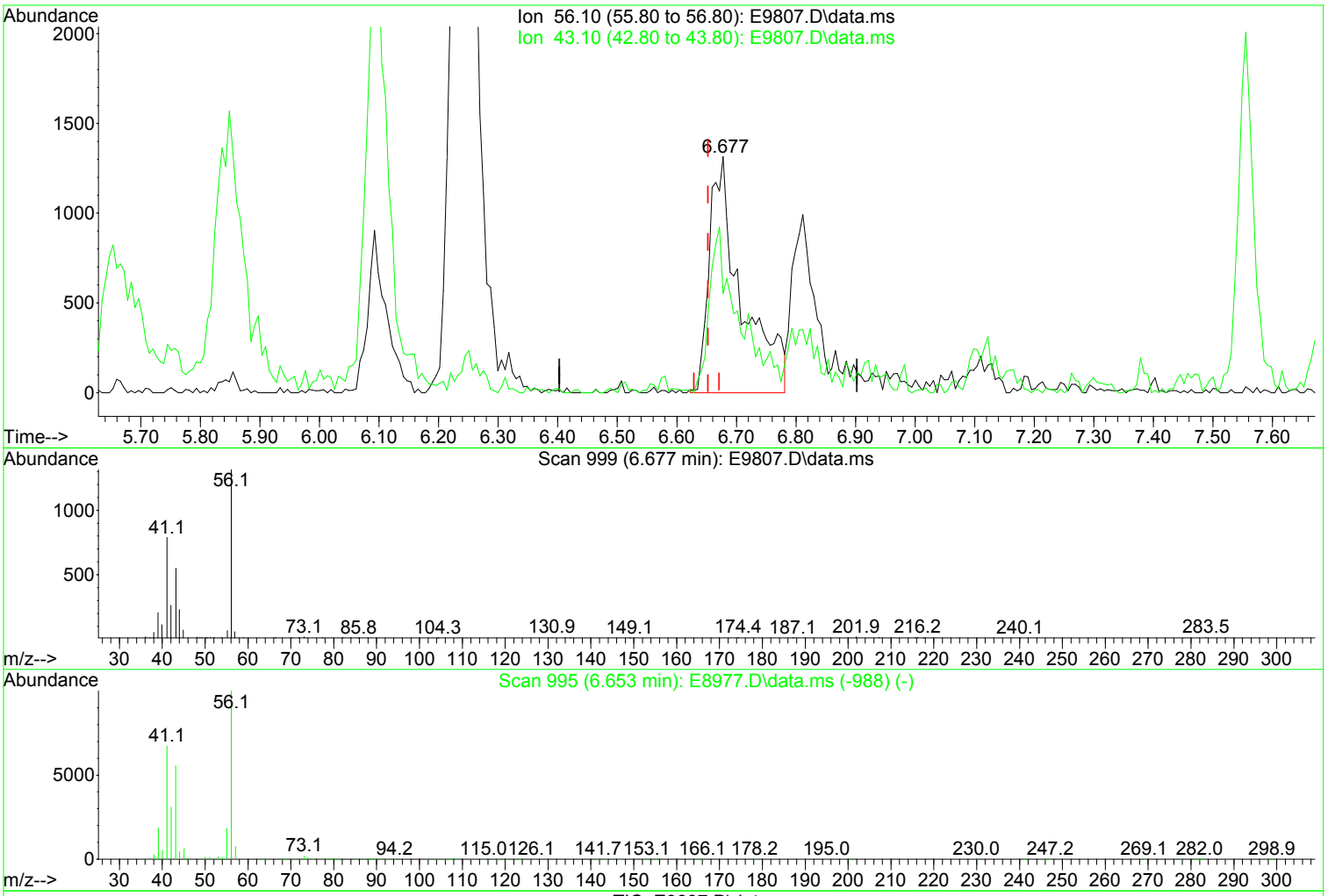
Before

02/16/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration



TIC: E9807.D\data.ms

(53) 1-Butanol

6.677min (+ 0.024) 47.22 ug/L m

response 4897

Ion	Exp%	Act%
56.10	100.00	100.00
43.10	56.50	41.90
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

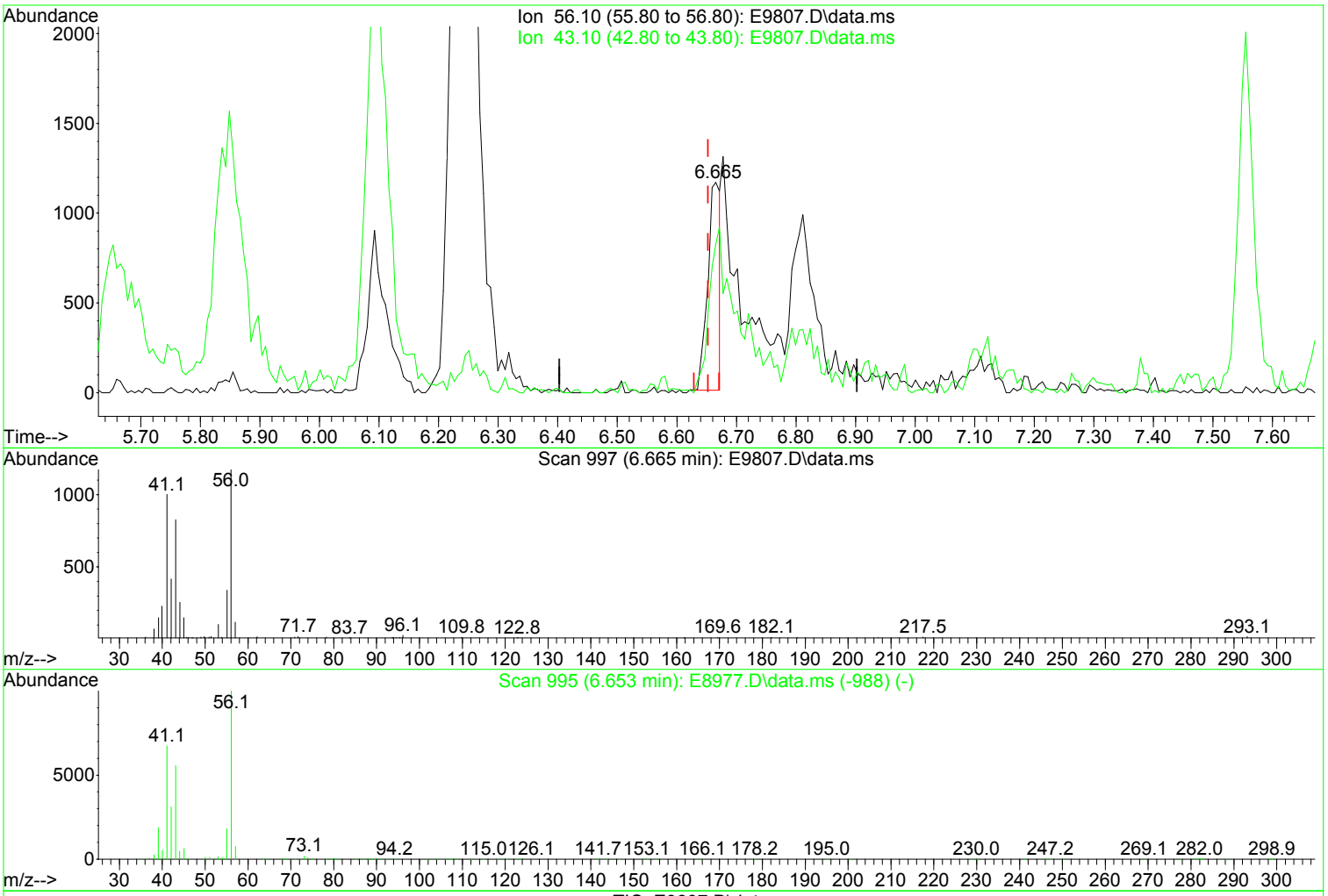
Poor integration.

02/16/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration



TIC: E9807.D\data.ms

(53) 1-Butanol

6.665min (+ 0.012) 16.19 ug/L

response 1679

Ion	Exp%	Act%
56.10	100.00	100.00
43.10	56.50	70.56
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

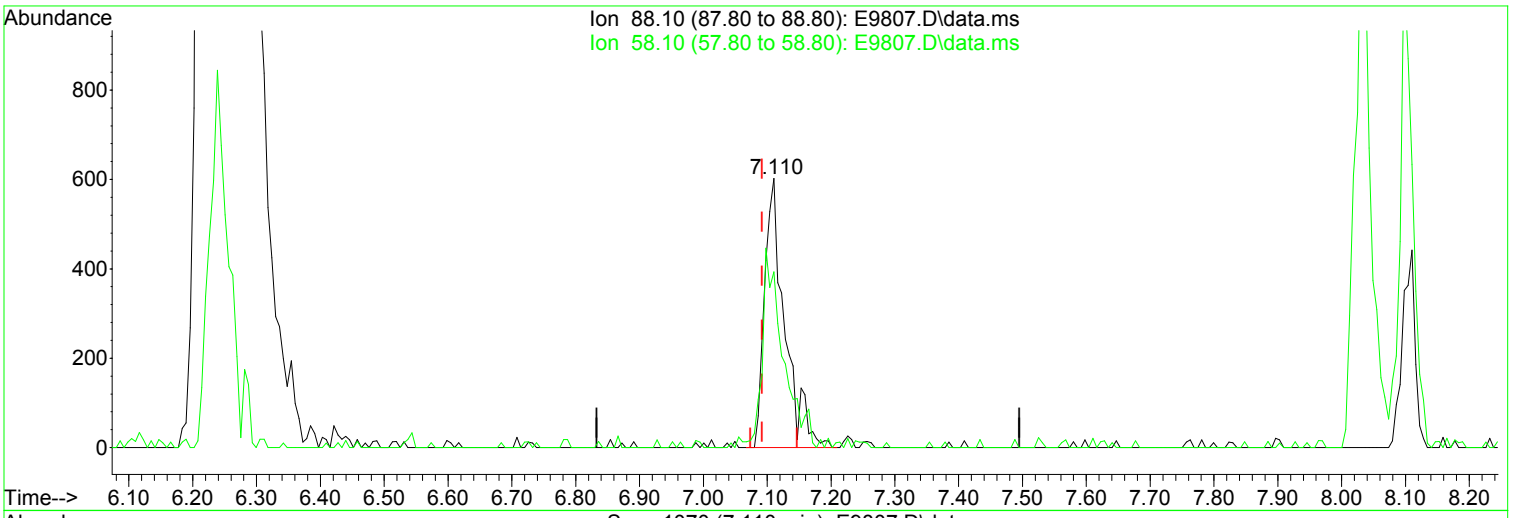
Before

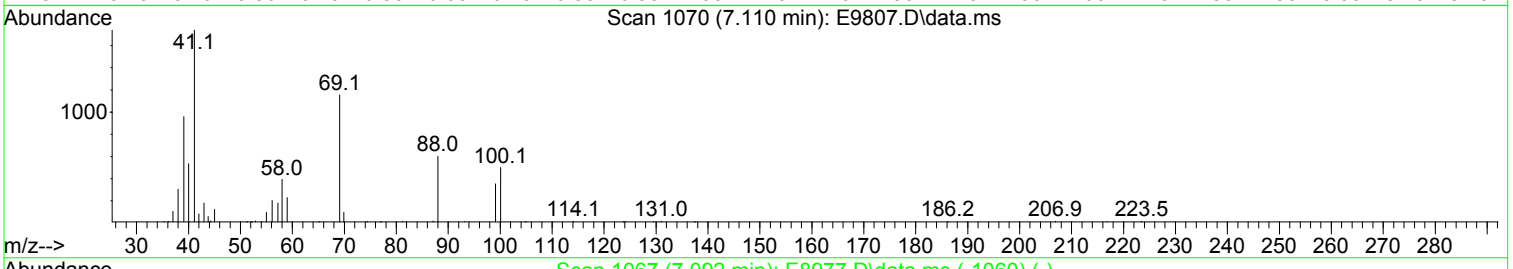
02/16/24

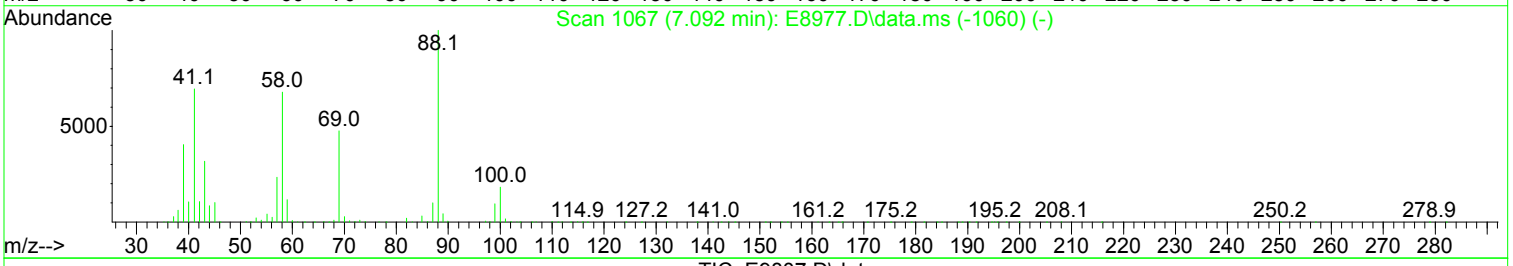
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(58) 1,4-Dioxane

7.110min (+ 0.018) 19.22 ug/L m

response 1319

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	68.40	65.28
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

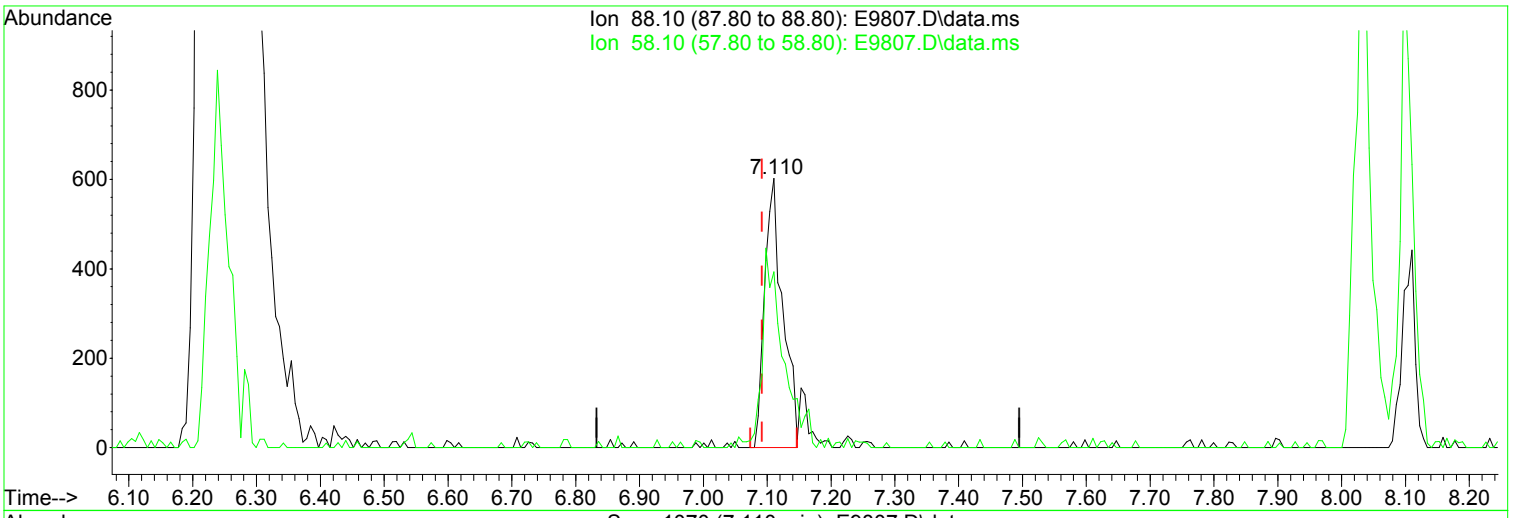
Poor integration.

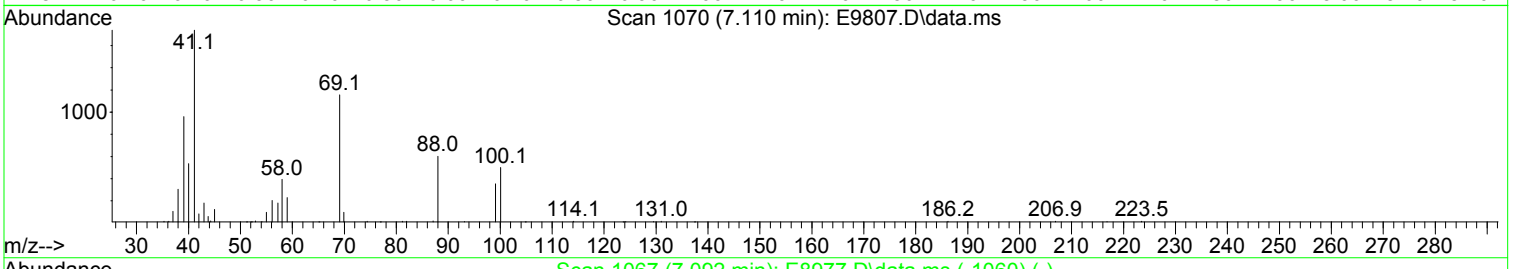
02/16/24

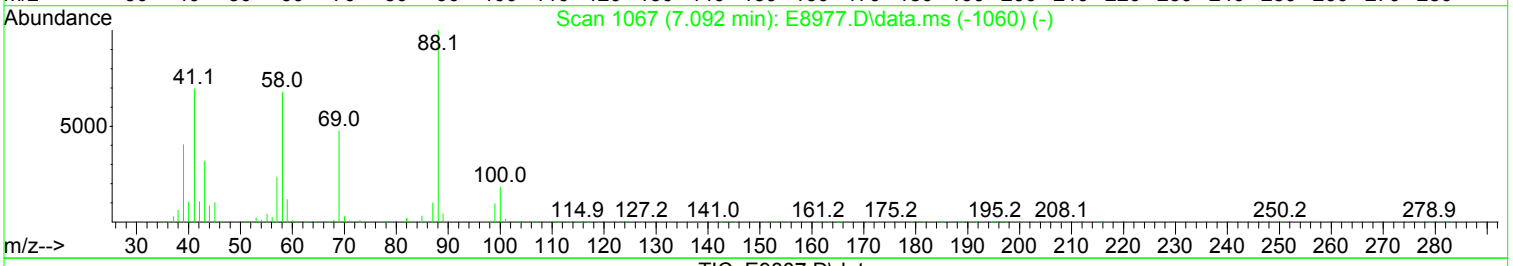
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(58) 1,4-Dioxane

7.110min (+ 0.018) 17.21 ug/L

response 1181

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	68.40	65.28
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

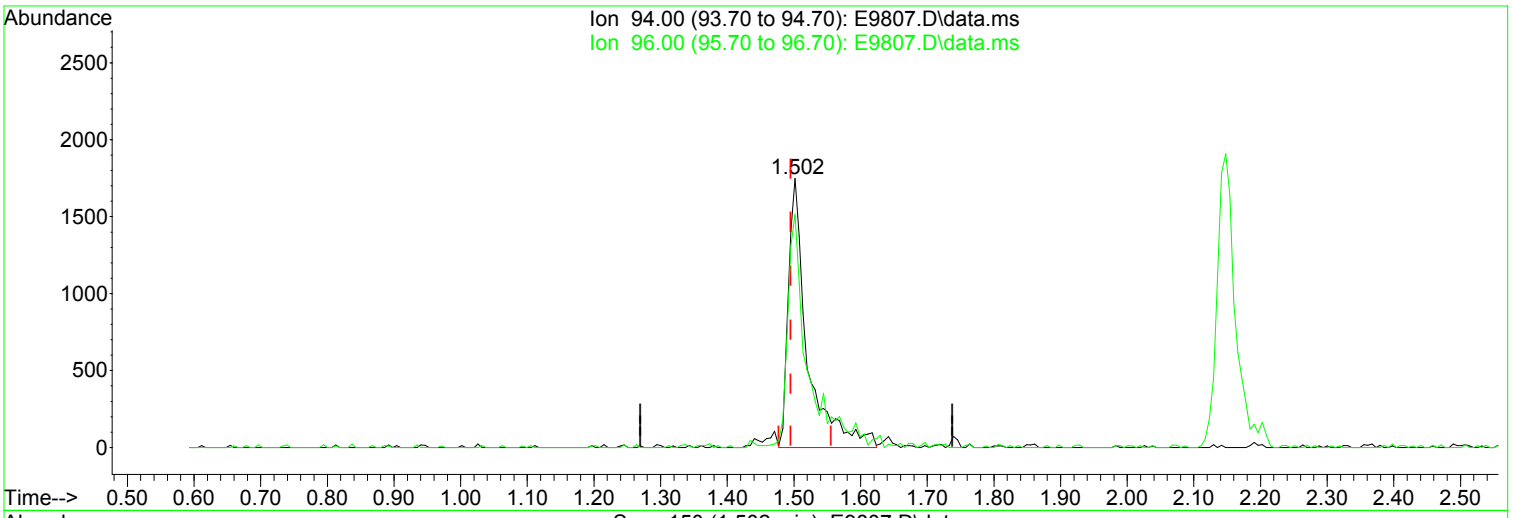
Before

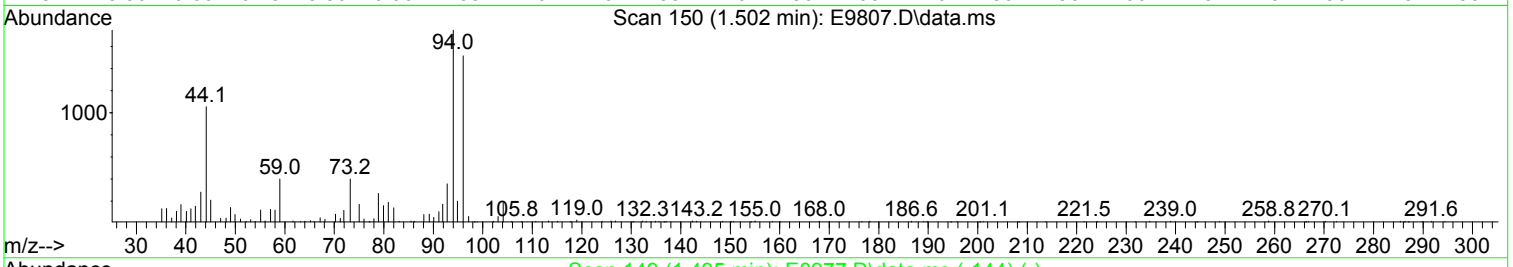
02/16/24

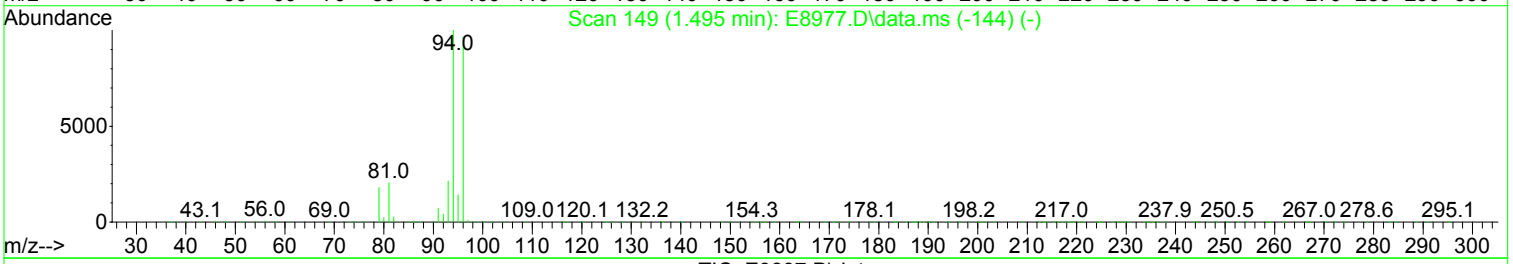
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(6) Bromomethane (P)

1.502min (+ 0.007) 1.24 ug/L m

response 3493

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	96.90	86.73
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

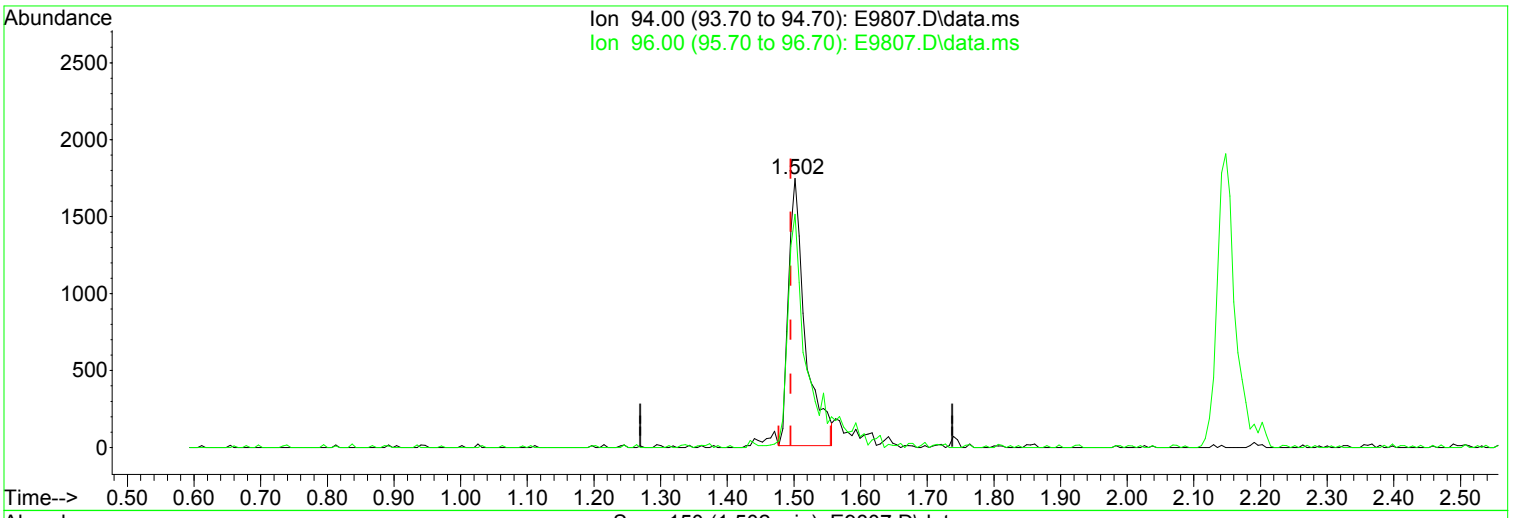
Poor integration.

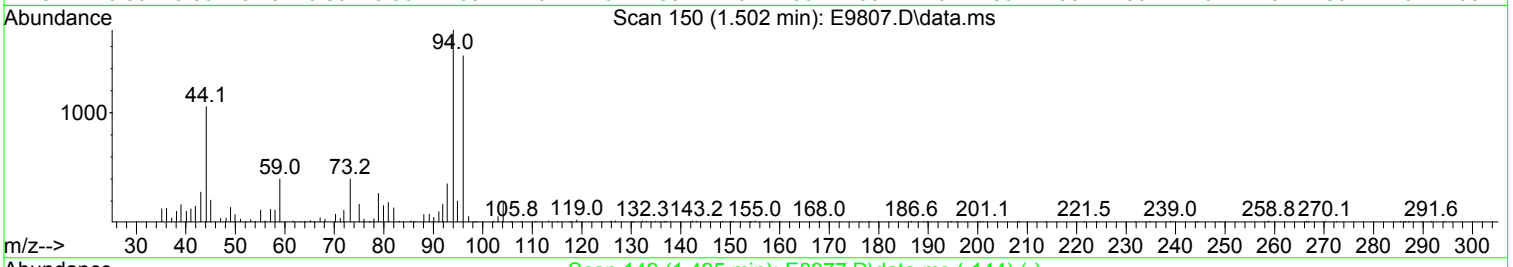
02/16/24

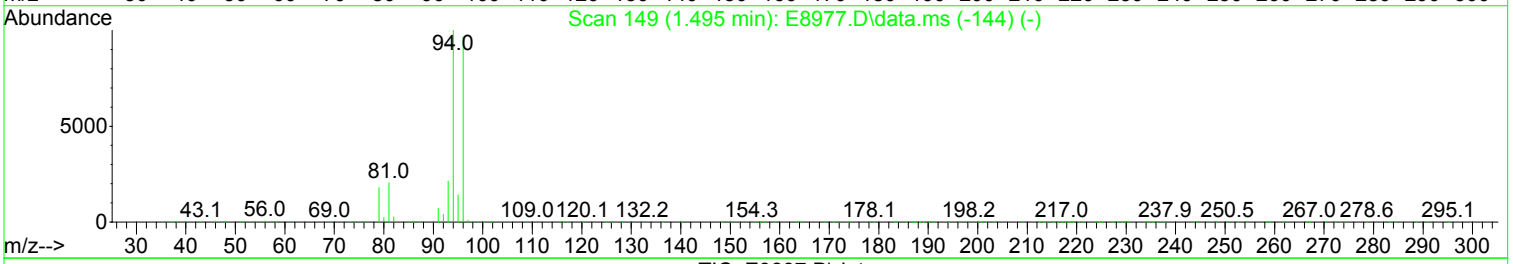
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(6) Bromomethane (P)

1.502min (+ 0.007) 1.08 ug/L

response 3039

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	96.90	86.73
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

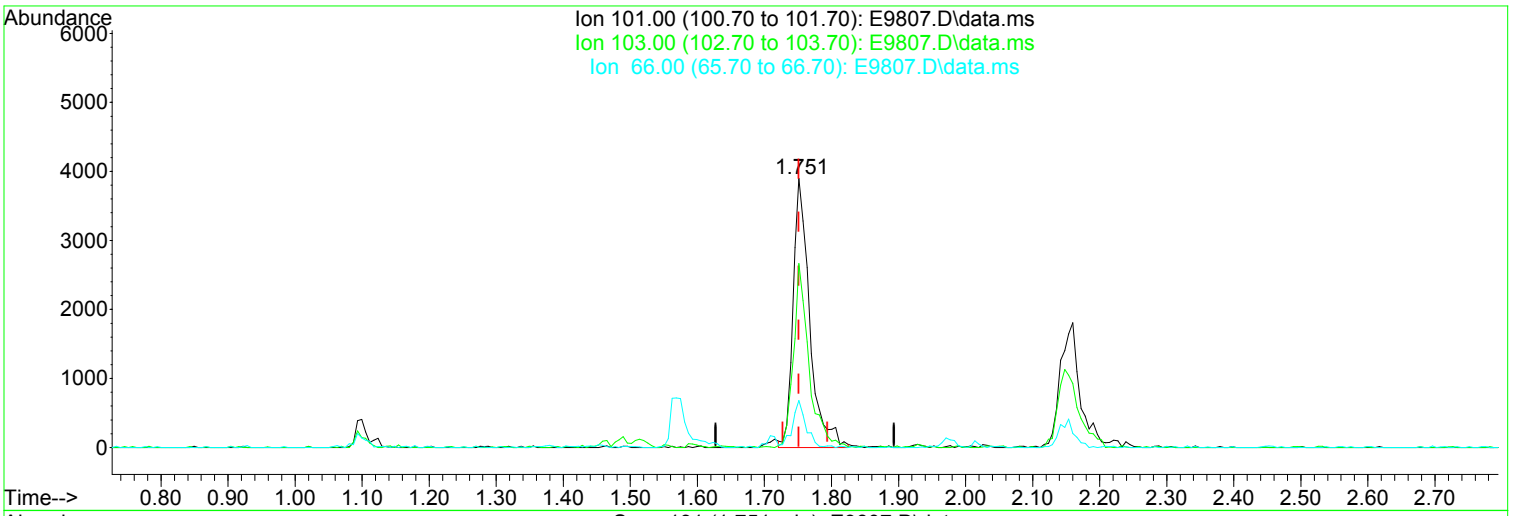
Before

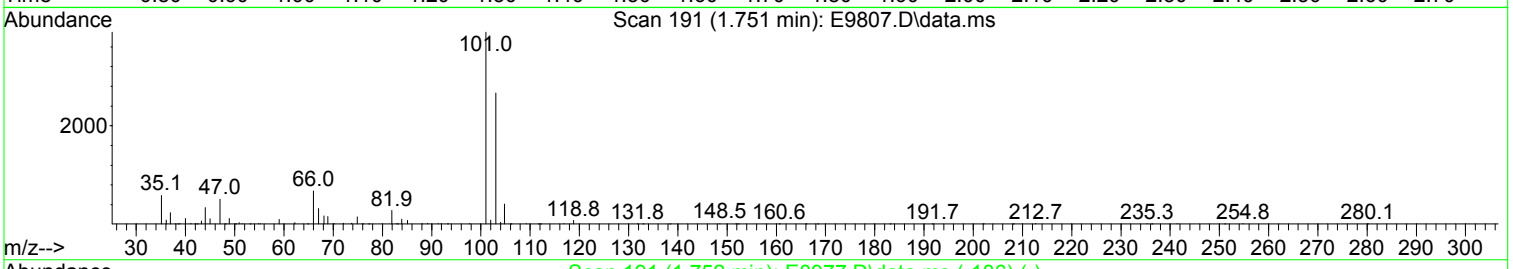
02/16/24

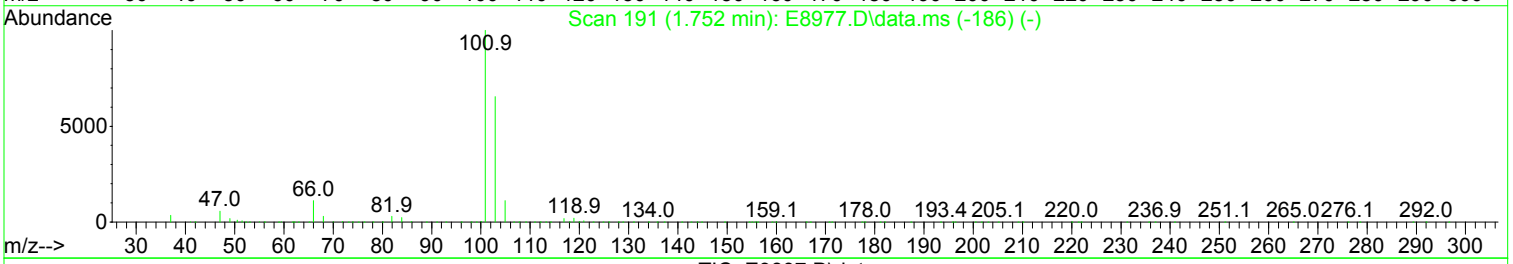
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9807.D\data.ms

(9) Trichlorofluoromethane (P)

1.751min (-0.000) 1.01 ug/L m

response 6704

Ion	Exp%	Act%
101.00	100.00	100.00
103.00	65.60	68.36
66.00	12.80	17.42
0.00	0.00	0.00

Manual Integration:

After

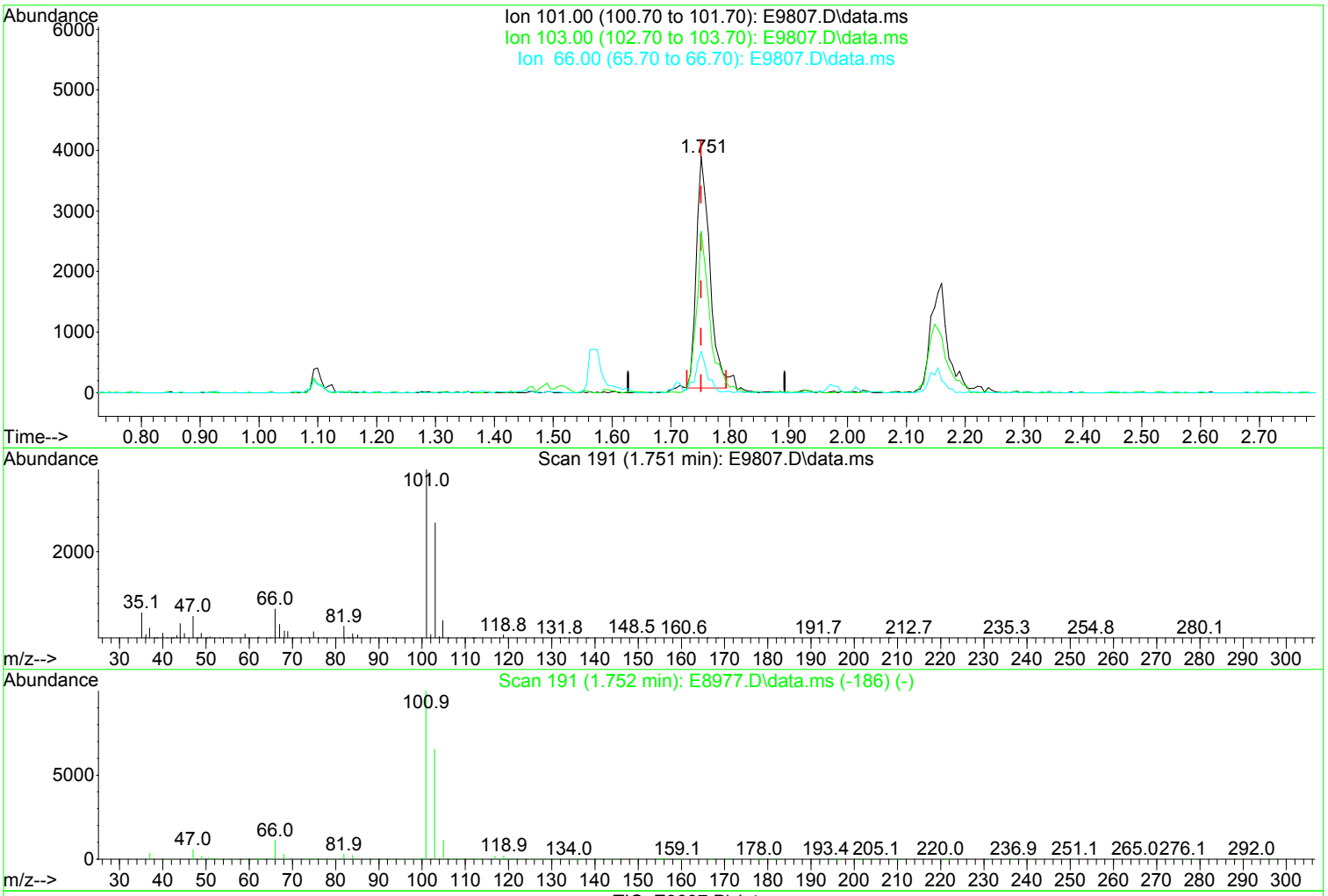
Poor integration.

02/16/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration



TIC: E9807.D\data.ms

(9) Trichlorofluoromethane (P)

1.751min (-0.000) 0.91 ug/L

response 6084

Ion	Exp%	Act%
101.00	100.00	100.00
103.00	65.60	68.36
66.00	12.80	17.42
0.00	0.00	0.00

Manual Integration:

Before

02/16/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.086	168	470405	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.245	114	698222	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.616	117	611476	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	11.683	152	297840	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.922	113	46693	10.34	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 20.68%#				
48) surr1,1,2-dichloroetha...	5.501	65	58182	12.41	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 24.82%#				
65) SURR3,Toluene-d8	8.104	98	175209	10.57	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 21.14%#				
70) SURR2,BFB	10.707	95	65212	10.91	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 21.82%#				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.099	51	4227	0.900	ug/L		96
3) Dichlorodifluoromethane	1.093	85	5718m	1.018	ug/L		
4) Chloromethane	1.215	50	4519m	0.877	ug/L		
5) Vinyl Chloride	1.288	62	4811m	0.838	ug/L		
6) Bromomethane	1.502	94	3493m	1.239	ug/L		
7) Chloroethane	1.569	64	3379	0.920	ug/L		91
8) Freon 21	1.709	67	7041	0.936	ug/L		97
9) Trichlorofluoromethane	1.751	101	6704m	1.007	ug/L		
10) Diethyl Ether	1.971	59	5576m	1.461	ug/L		
11) Freon 123a	1.977	67	4098	0.881	ug/L		94
12) Freon 123	2.026	83	5234	0.914	ug/L		93
13) Acrolein	2.068	56	4920m	4.975	ug/L		
14) 1,1-Diclethene	2.148	96	3675	0.883	ug/L		91
15) Freon 113	2.160	101	3679	0.853	ug/L		91
16) Acetone	2.196	43	2862	1.301	ug/L		93
17) 2-Propanol	2.325	45	7787	20.233	ug/L		85
18) Iodomethane	2.270	142	4260	0.655	ug/L		100
19) Carbon Disulfide	2.325	76	9668	0.786	ug/L		96
20) Acetonitrile	2.446	41	4307m	4.572	ug/L		
21) Allyl Chloride	2.459	76	1875	0.786	ug/L	#	92
22) Methyl Acetate	2.489	43	6380	1.131	ug/L		96
23) Methylene Chloride	2.568	84	4909	1.062	ug/L		97
24) TBA	2.703	59	13334	20.558	ug/L		93
25) Acrylonitrile	2.812	53	10528	4.682	ug/L		97
26) Methyl-t-Butyl Ether	2.849	73	12694m	0.959	ug/L		
27) trans-1,2-Dichloroethene	2.843	96	4146	0.936	ug/L		85
28) 1,1-Diclethane	3.306	63	6515	0.864	ug/L		98
29) Vinyl Acetate	3.416	86	462m	0.635	ug/L		
30) DIPE	3.428	45	13234m	0.925	ug/L		
31) 2-Chloro-1,3-Butadiene	3.422	53	6971m	1.016	ug/L		
32) ETBE	3.928	59	13295m	0.972	ug/L		
33) 2,2-Dichloropropane	4.093	77	6199m	0.970	ug/L		
34) cis-1,2-Dichloroethene	4.105	96	4379	0.864	ug/L		90
35) 2-Butanone	4.172	43	2999	0.983	ug/L		85
36) Propionitrile	4.245	54	3960	4.348	ug/L		87
37) Bromochloromethane	4.464	130	2952	0.904	ug/L		88
38) Methacrylonitrile	4.495	67	1934	0.828	ug/L	#	75
39) Tetrahydrofuran	4.586	42	2143m	1.186	ug/L		
40) Chloroform	4.635	83	7959m	1.038	ug/L		

1st 02/16/24
2nd 02/16/24

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 1,1,1-Trichloroethane	4.928	97	6684m	0.986	ug/L		
42) TAME	5.842	73	11324	0.858	ug/L		94
44) Cyclohexane	5.013	41	3980m	0.978	ug/L		
46) Carbontetrachloride	5.214	117	5815m	0.944	ug/L		
47) 1,1-Dichloropropene	5.239	75	5265	0.962	ug/L		93
49) Benzene	5.580	78	14882	0.940	ug/L		88
50) 1,2-Dichloroethane	5.623	62	6629	1.194	ug/L		94
51) Iso-Butyl Alcohol	5.653	43	3810m	21.024	ug/L		
52) n-Heptane	6.098	43	6564	1.039	ug/L		91
53) 1-Butanol	6.677	56	4897m	47.216	ug/L		
54) Trichloroethene	6.580	130	4463	0.933	ug/L		86
55) Methylcyclohexane	6.812	55	5743	0.999	ug/L	#	85
56) 1,2-Diclpropane	6.872	63	3898	0.890	ug/L		100
57) Dibromomethane	7.013	93	2880	0.970	ug/L		83
58) 1,4-Dioxane	7.110	88	1319m	19.217	ug/L		
59) Methyl Methacrylate	7.116	69	3132	0.873	ug/L		91
60) Bromodichloromethane	7.250	83	5192	0.892	ug/L		96
61) 2-Nitropropane	7.555	41	3061	2.013	ug/L		97
62) 2-Chloroethylvinyl Ether	7.683	63	1208	0.428	ug/L		86
63) cis-1,3-Dichloropropene	7.811	75	5854	0.844	ug/L		99
64) 4-Methyl-2-pentanone	8.037	43	5328	1.004	ug/L		98
66) Toluene	8.177	91	15958	0.911	ug/L		97
67) trans-1,3-Dichloropropene	8.464	75	5437	0.829	ug/L		90
68) Ethyl Methacrylate	8.610	69	5457	0.857	ug/L		95
69) 1,1,2-Trichloroethane	8.653	97	4103	0.963	ug/L		89
72) Tetrachloroethene	8.768	164	3456	0.957	ug/L		91
73) 2-Hexanone	8.964	43	3755	0.945	ug/L		96
74) 1,3-Dichloropropane	8.823	76	6486	0.969	ug/L		90
75) Dibromochloromethane	9.049	129	4248	0.810	ug/L		86
76) N-Butyl Acetate	9.122	43	7521	0.914	ug/L		96
77) 1,2-Dibromoethane	9.146	107	4063	0.926	ug/L		98
78) 3-Chlorobenzotrifluoride	9.671	180	6401	0.983	ug/L	#	92
79) Chlorobenzene	9.646	112	11868	1.002	ug/L		94
80) 4-Chlorobenzotrifluoride	9.732	180	6100	1.050	ug/L		96
81) 1,1,1,2-Tetrachloroethane	9.738	131	4102	0.855	ug/L		93
82) Ethylbenzene	9.768	106	5717	0.908	ug/L	#	84
83) (m+p)Xylene	9.884	106	14636	1.949	ug/L		90
84) o-Xylene	10.244	106	6965	0.948	ug/L	#	71
85) Styrene	10.256	104	11756	0.923	ug/L		89
86) Bromoform	10.408	173	2531	0.740	ug/L		97
87) 2-Chlorobenzotrifluoride	10.494	180	5971	0.968	ug/L		94
88) Isopropylbenzene	10.579	105	18930	0.984	ug/L		96
89) Cyclohexanone	10.652	55	21138	20.619	ug/L		99
90) trans-1,4-Dichloro-2-B...	10.902	53	1488	0.796	ug/L		87
92) 1,1,2,2-Tetrachloroethane	10.847	83	5370	0.885	ug/L		99
93) Bromobenzene	10.823	156	4715	0.930	ug/L		93
94) 1,2,3-Trichloropropane	10.878	110	1941	0.957	ug/L	#	90
95) n-Propylbenzene	10.939	91	21143	0.809	ug/L		99
96) 2-Chlorotoluene	11.000	91	13104	1.010	ug/L		91
97) 3-Chlorotoluene	11.055	91	13831	1.011	ug/L		96
98) 4-Chlorotoluene	11.091	91	15569	1.015	ug/L		96
99) 1,3,5-Trimethylbenzene	11.091	105	15054	0.935	ug/L		94
100) tert-Butylbenzene	11.366	119	13363	0.932	ug/L		97
101) 1,2,4-Trimethylbenzene	11.408	105	14273	0.884	ug/L		98
102) 3,4-Dichlorobenzotrifl...	11.469	214	4416	0.938	ug/L		86
103) sec-Butylbenzene	11.548	105	18545	0.909	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) p-Isopropyltoluene	11.677	119	15616	0.887	ug/L	95
105) 1,3-Dclbenz	11.628	146	9341	0.978	ug/L	94
106) 1,4-Dclbenz	11.701	146	9890	1.034	ug/L	91
107) 2,4-Dichlorobenzotrifl...	11.768	214	4252	1.028	ug/L	84
108) 2,5-Dichlorobenzotrifl...	11.805	214	4665	1.012	ug/L	90
109) n-Butylbenzene	12.006	91	13191	0.854	ug/L	96
110) 1,2-Dclbenz	12.006	146	8922	0.966	ug/L	92
111) 1,2-Dibromo-3-chloropr...	12.634	157	1102	0.711	ug/L	92
112) Trielution Dichlorotol...	12.749	125	23277	2.733	ug/L	99
113) 1,3,5-Trichlorobenzene	12.798	180	6408	0.957	ug/L	94
114) Coelution Dichlorotoluene	13.079	125	16096	1.814	ug/L	94
115) 1,2,4-Tcbenzene	13.286	180	5669	0.927	ug/L	94
116) Hexachlorobt	13.420	225	2646	0.885	ug/L	100
117) Naphthalen	13.475	128	13769	0.787	ug/L	97
118) 1,2,3-Tclbenzene	13.664	180	5334	0.932	ug/L	97
119) 2,4,5-Trichlorotoluene	14.249	159	3828	0.865	ug/L	97
120) 2,3,6-Trichlorotoluene	14.335	159	3437	0.770	ug/L	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9807.D
Acq On : 15 Feb 2024 01:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 13:27:44 2024
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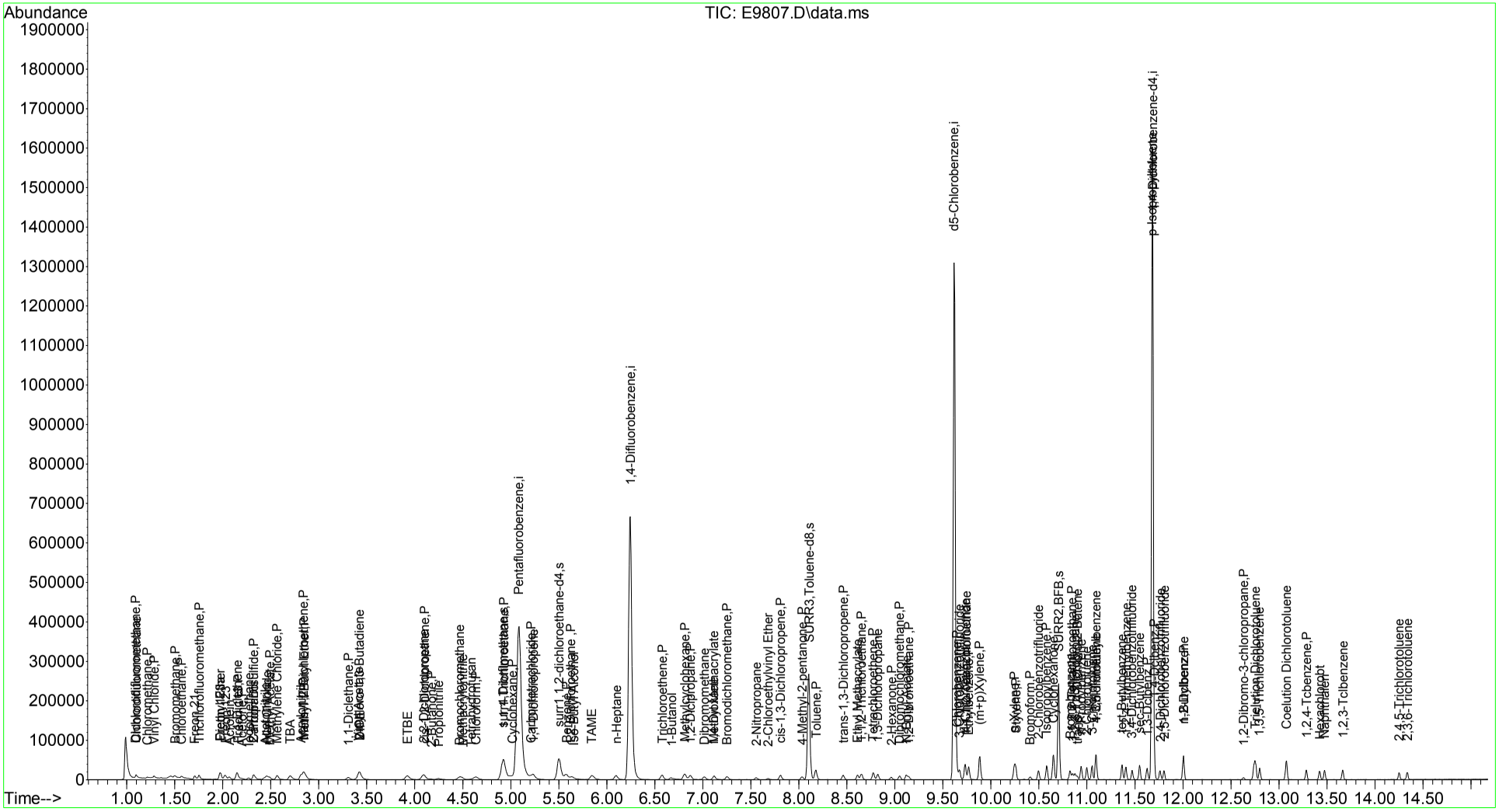
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration

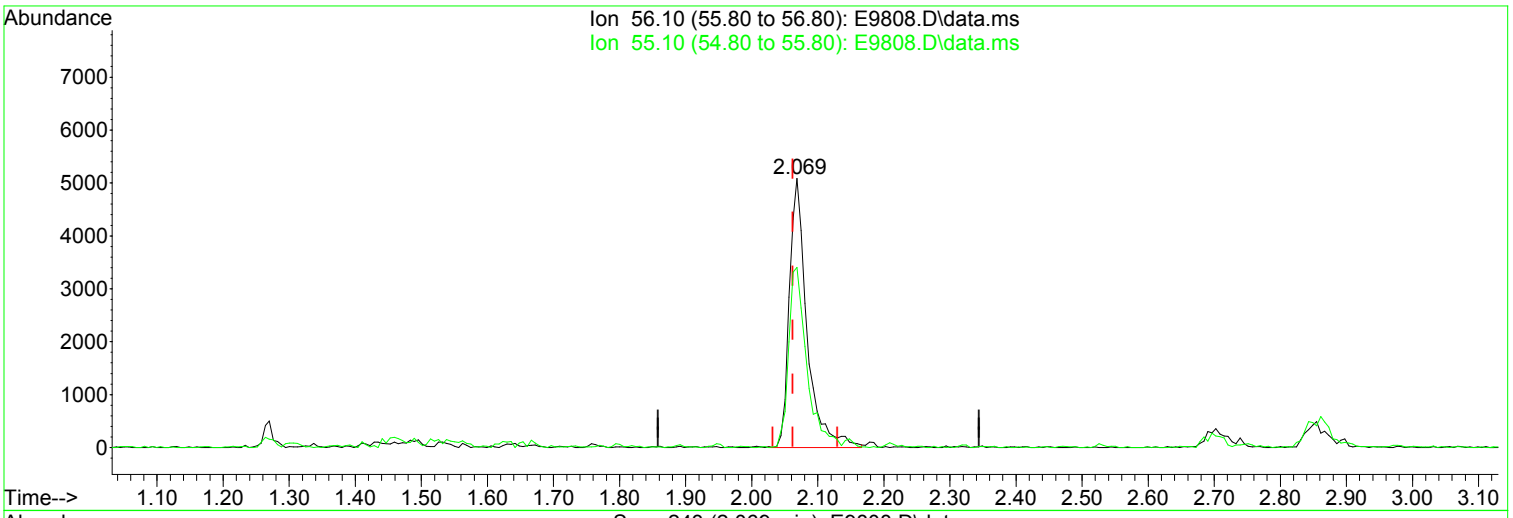


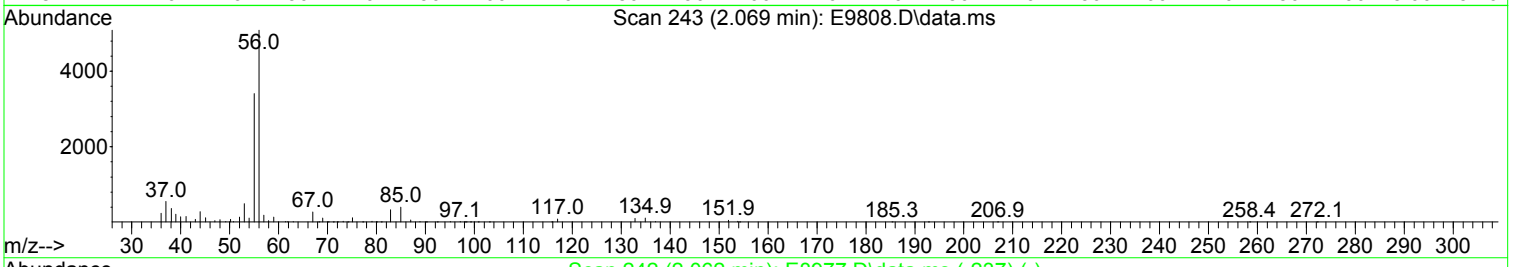
1st 02/16/24
2nd 02/16/24

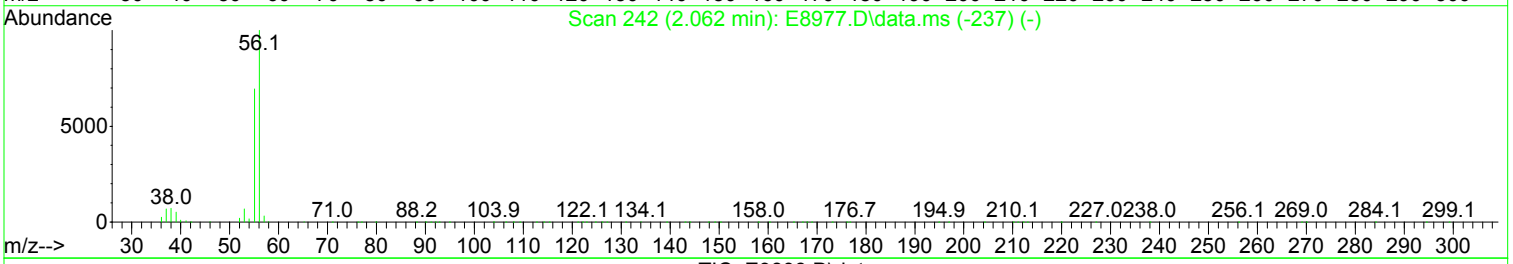
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9808.D\data.ms

(13) Acrolein

2.069min (+ 0.006) 9.72 ug/L m

response 9476

Ion	Exp%	Act%
56.10	100.00	100.00
55.10	70.00	66.94
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

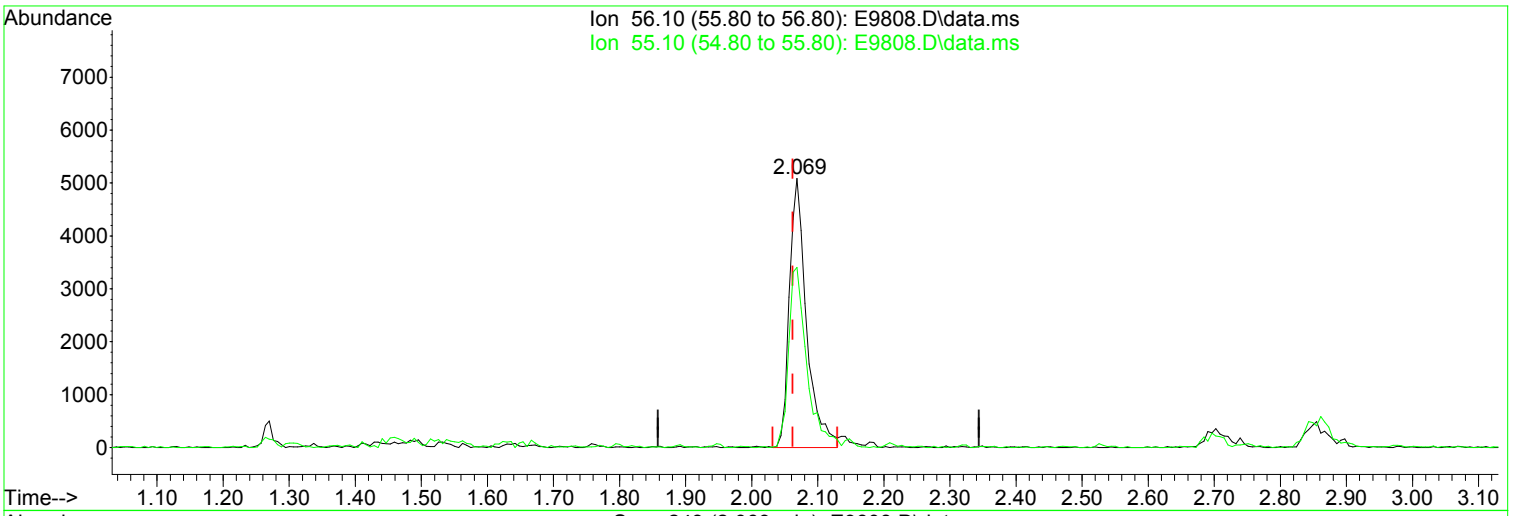
Poor integration.

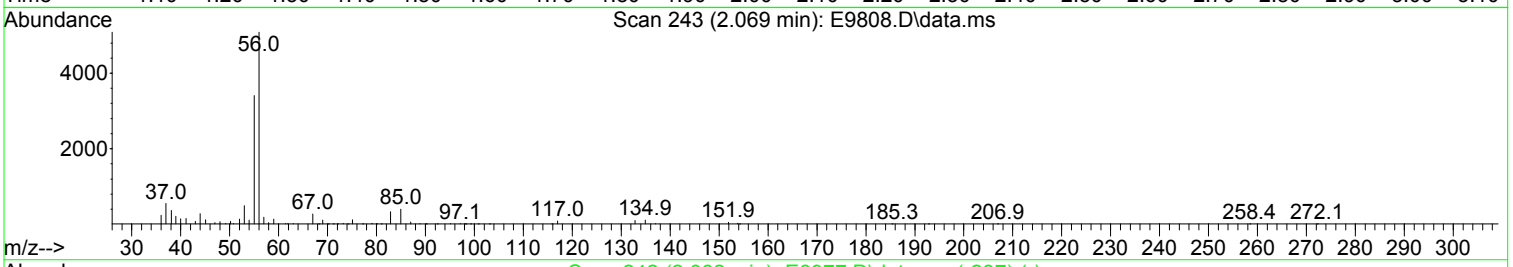
02/16/24

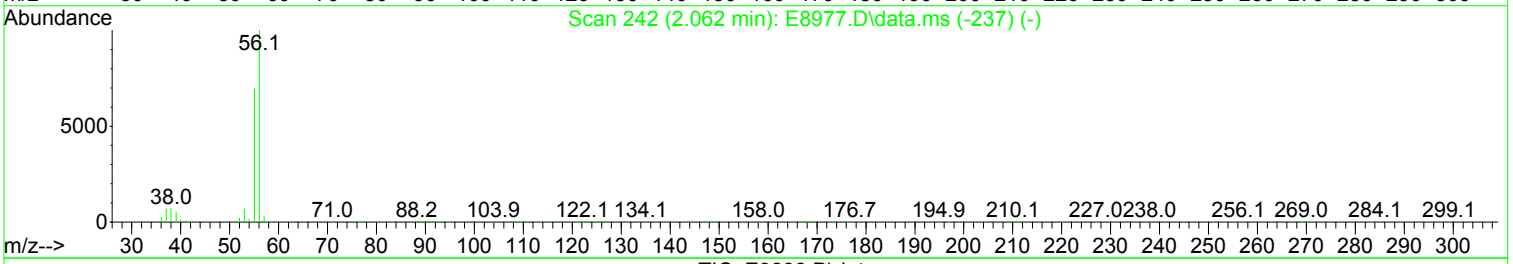
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9808.D\data.ms

(13) Acrolein

2.069min (+ 0.006) 9.44 ug/L

response 9210

Ion	Exp%	Act%
56.10	100.00	100.00
55.10	70.00	66.94
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

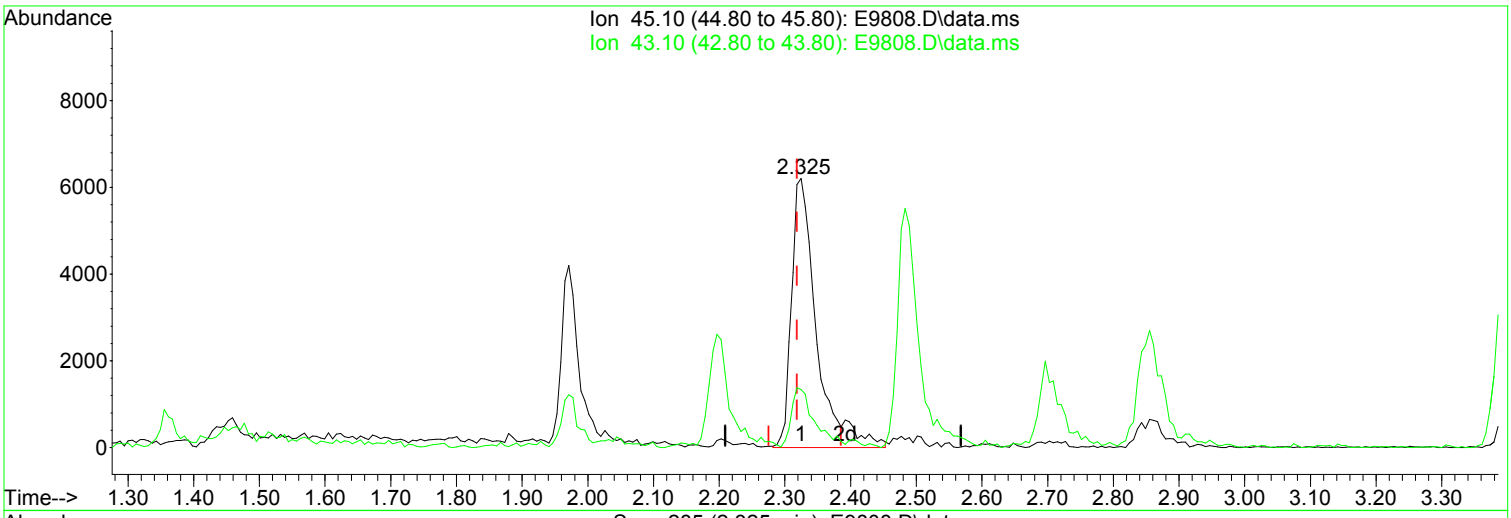
Before

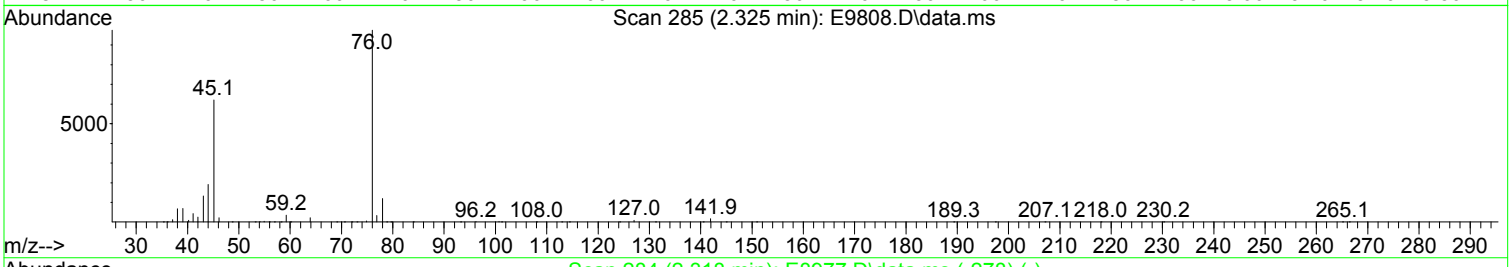
02/16/24

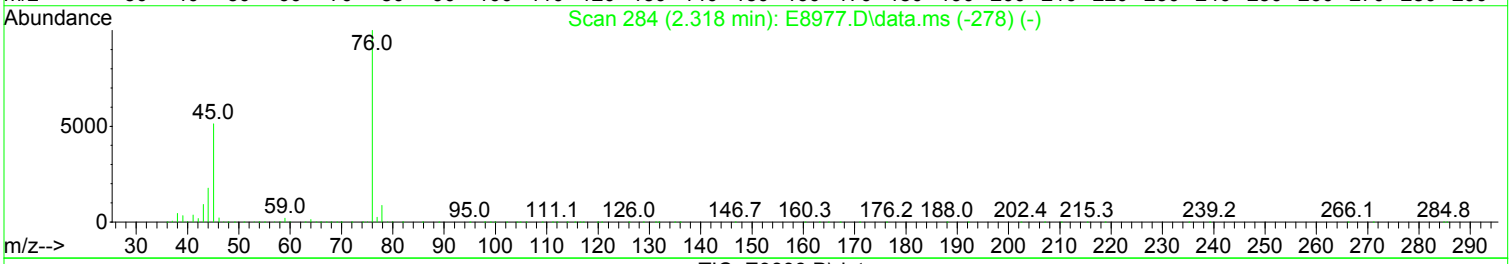
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9808.D\data.ms

(17) 2-Propanol

2.325min (+ 0.006) 43.25 ug/L m

response 16418

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	18.80	21.51
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

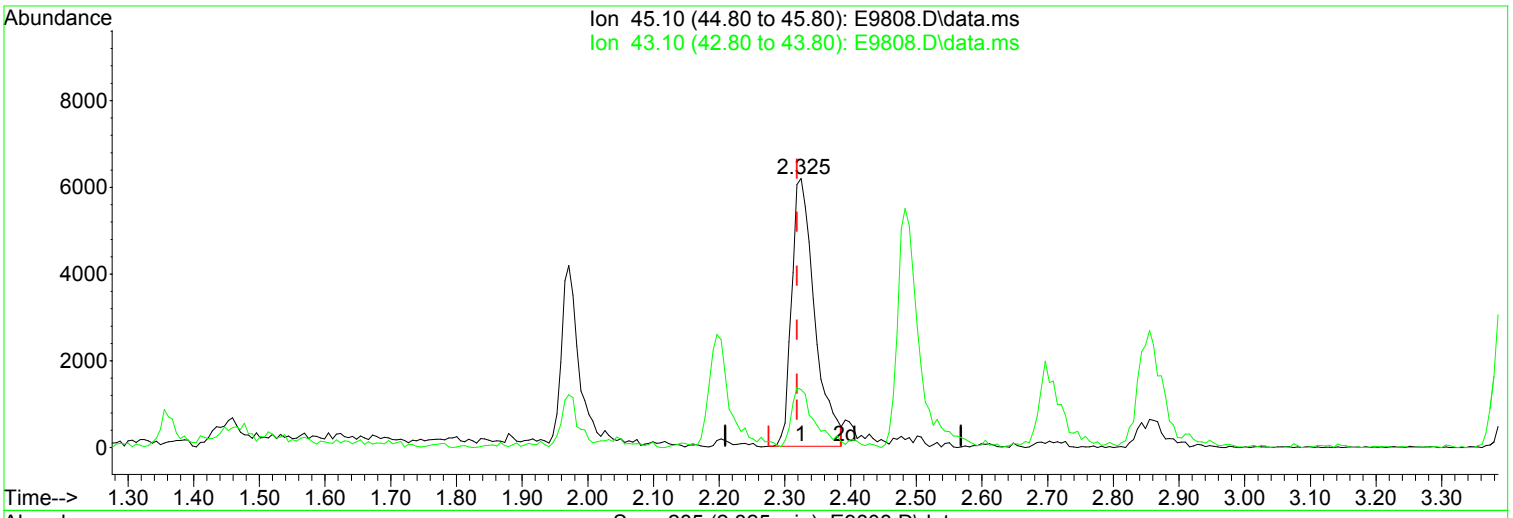
Poor integration.

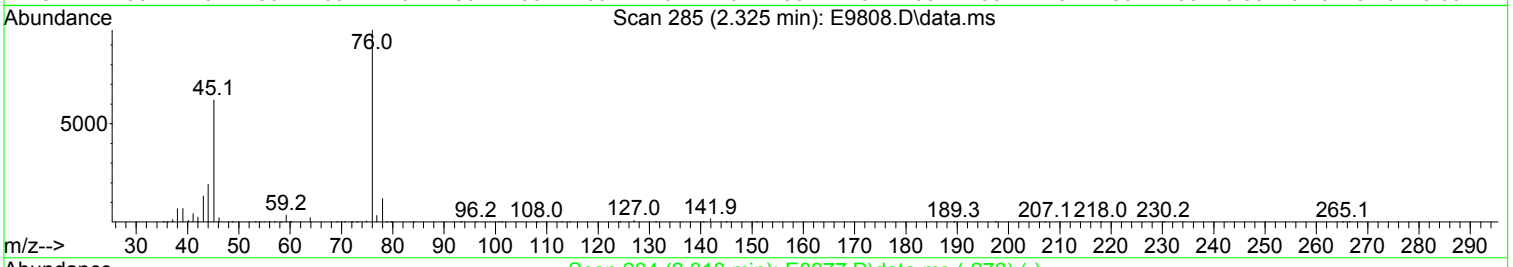
02/16/24

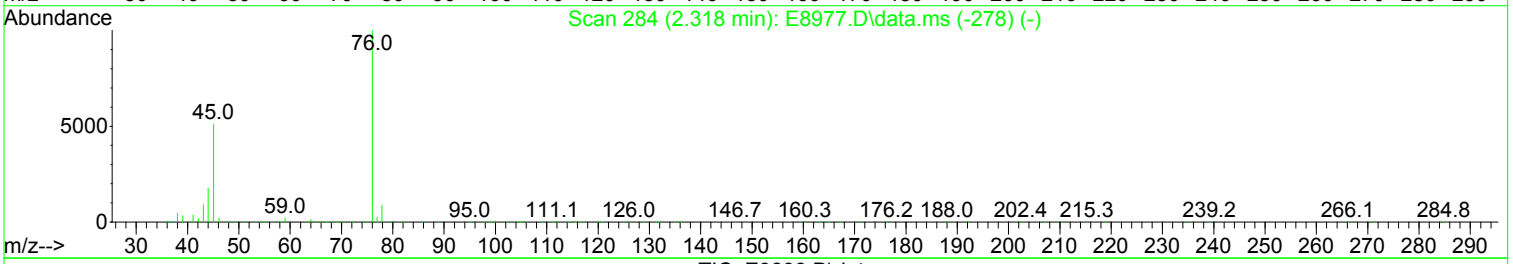
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9808.D\data.ms

(17) 2-Propanol

2.325min (+ 0.006) 39.56 ug/L

response 15016

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	18.80	21.51
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

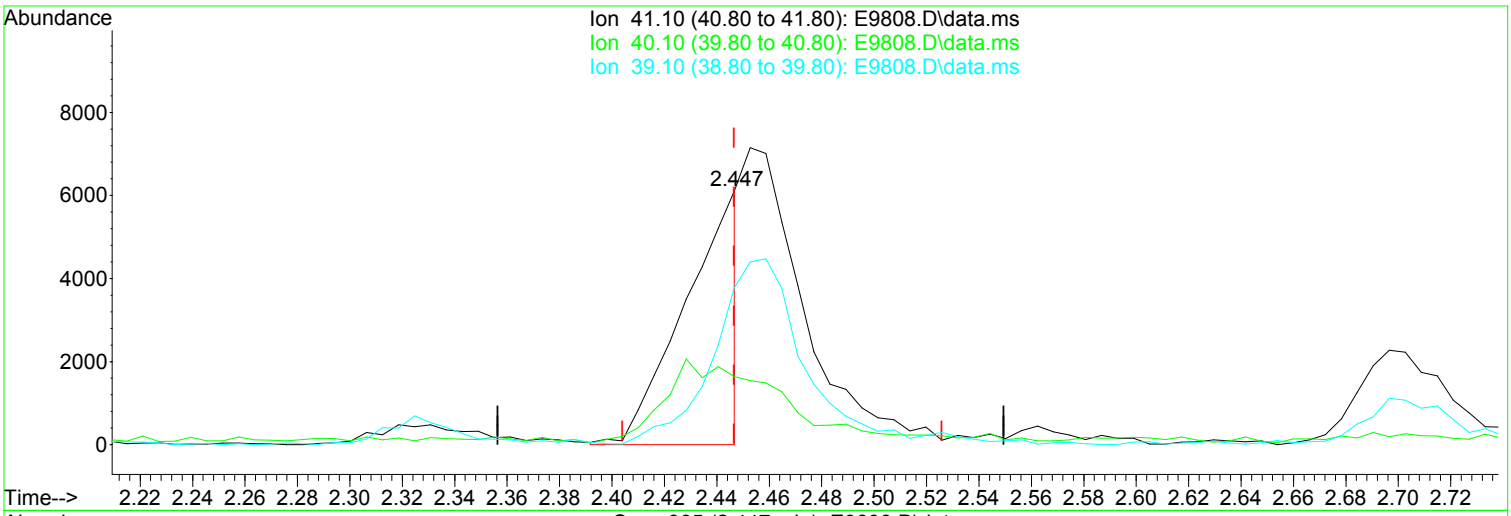
02/16/24

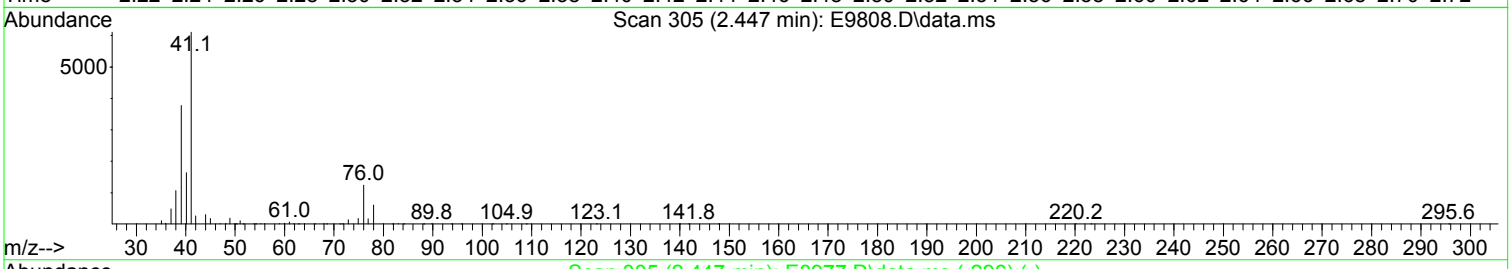
1st 02/16/24
2nd 02/16/24

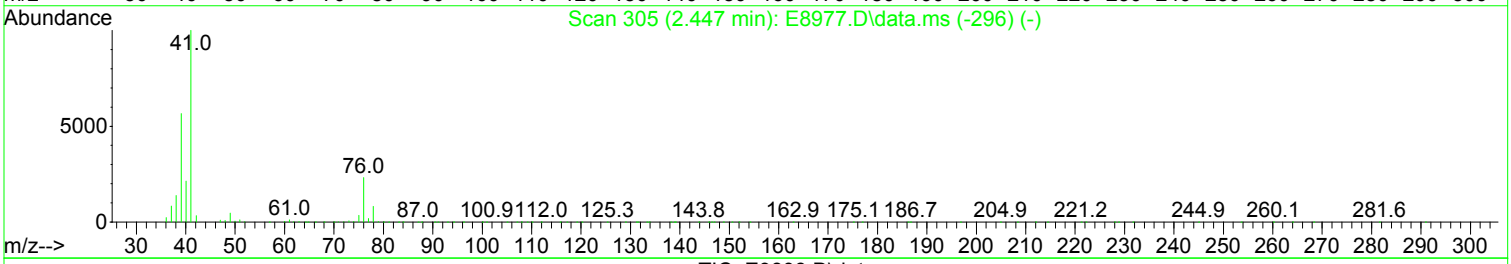
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9808.D\data.ms

(20) Acetonitrile

2.447min (+ 0.000) 9.59 ug/L m

response 8907

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	21.50	26.88
39.10	57.00	61.88
0.00	0.00	0.00

Manual Integration:

After

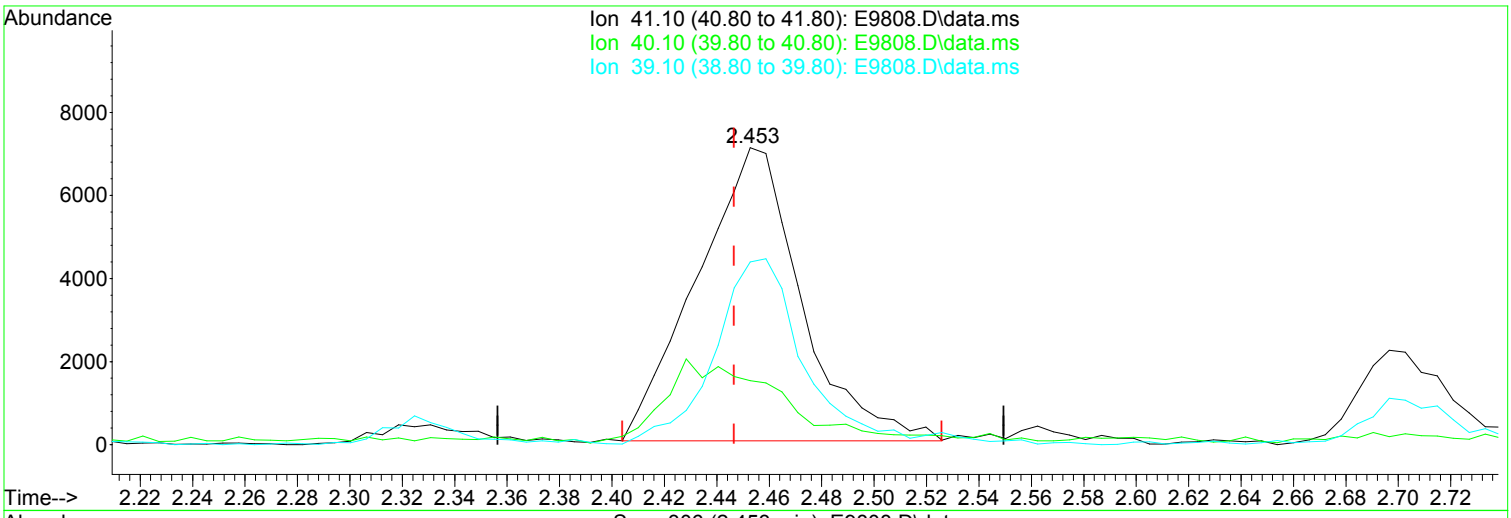
Poor integration.

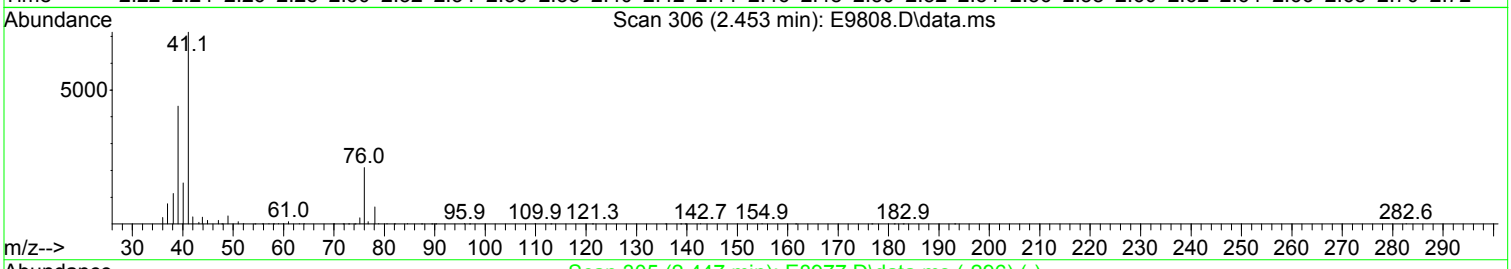
02/16/24

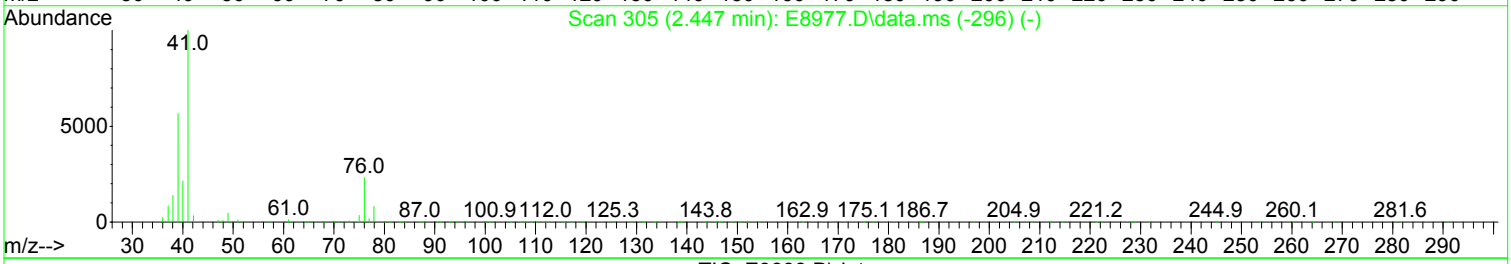
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9808.D\data.ms

(20) Acetonitrile

2.453min (+ 0.006) 21.10 ug/L

response 19601

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	21.50	21.52
39.10	57.00	61.47
0.00	0.00	0.00

Manual Integration:

Before

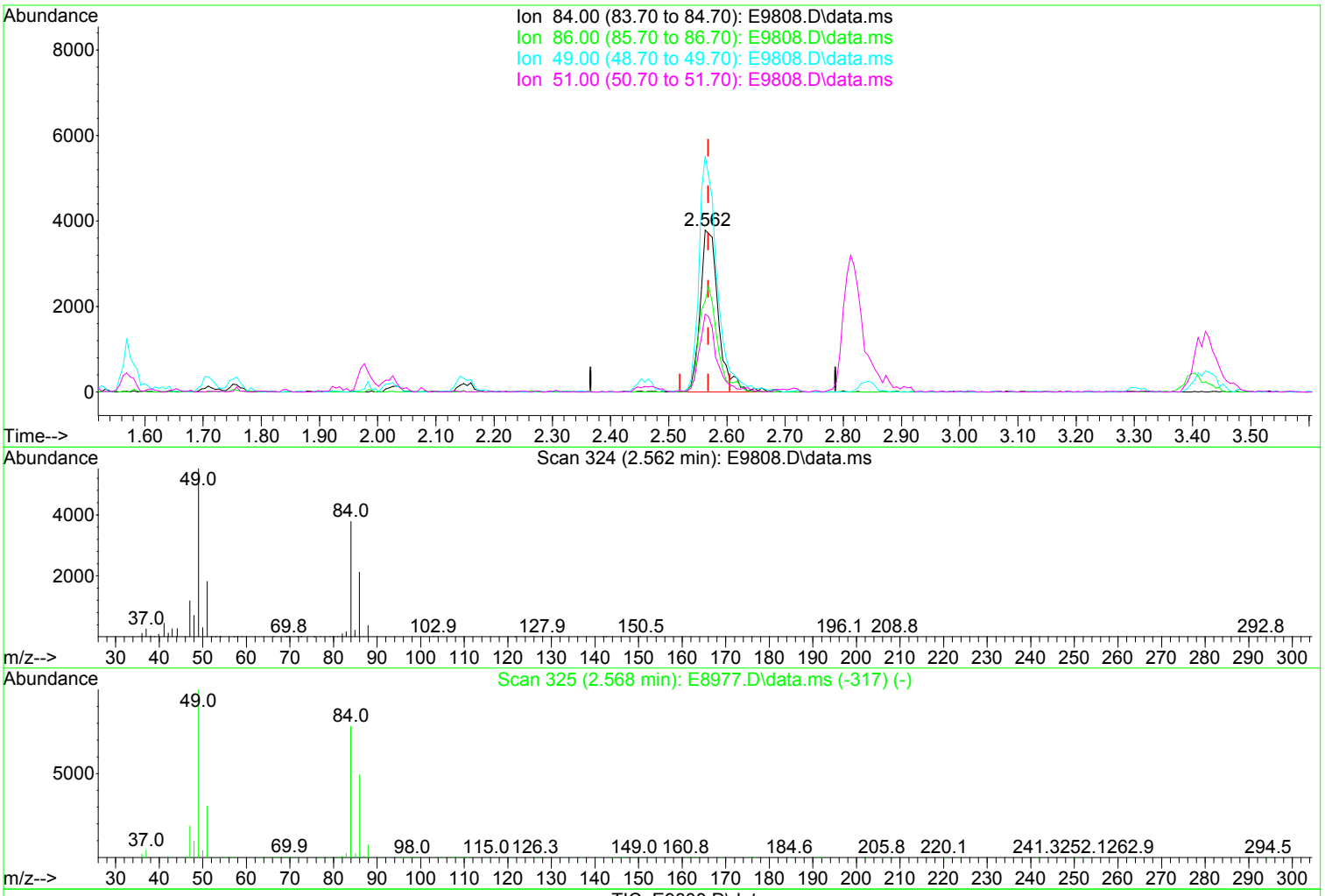
02/16/24

1st 02/16/24
2nd 02/16/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration



TIC: E9808.D\data.ms

(23) Methylene Chloride (P)

2.562min (-0.006) 1.83 ug/L m

response 8328

Ion	Exp%	Act%
84.00	100.00	100.00
86.00	62.90	56.10
49.00	128.10	145.49
51.00	39.10	48.10

Manual Integration:

After

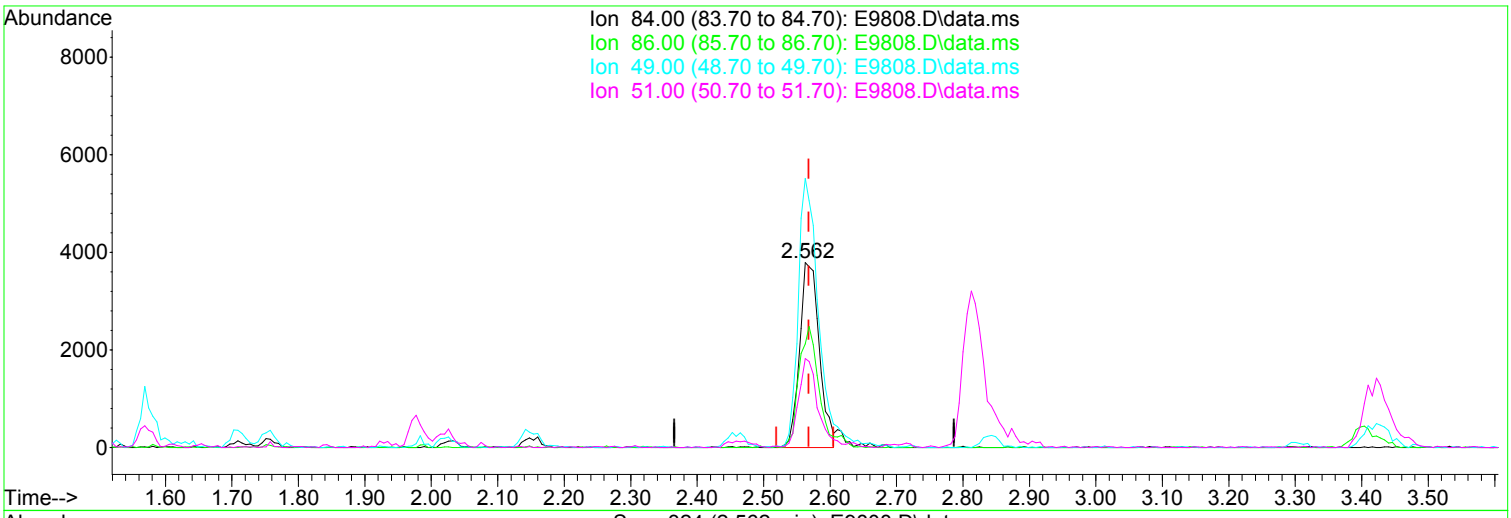
Poor integration.

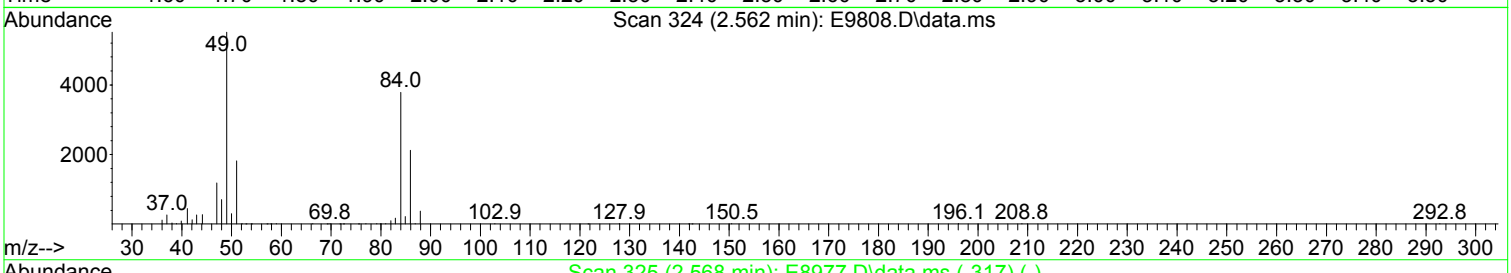
02/16/24

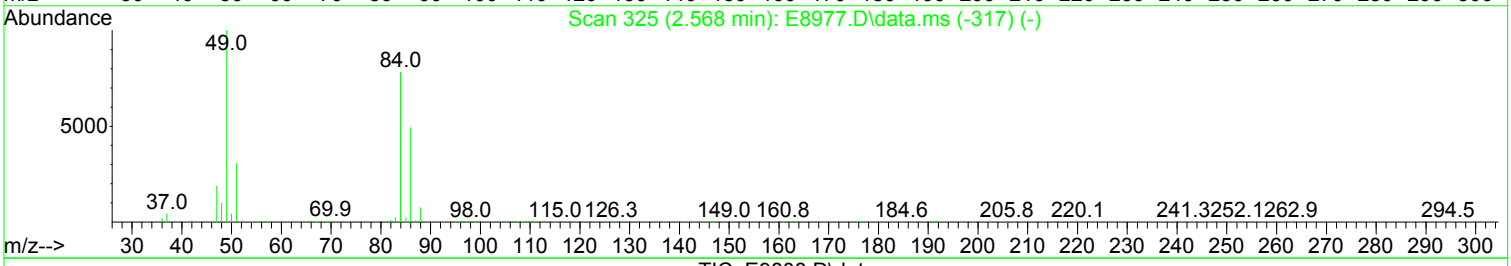
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9808.D\data.ms

(23) Methylene Chloride (P)

2.562min (-0.006) 1.72 ug/L

response 7837

Ion	Exp%	Act%
84.00	100.00	100.00
86.00	62.90	56.10
49.00	128.10	145.49
51.00	39.10	48.10

Manual Integration:

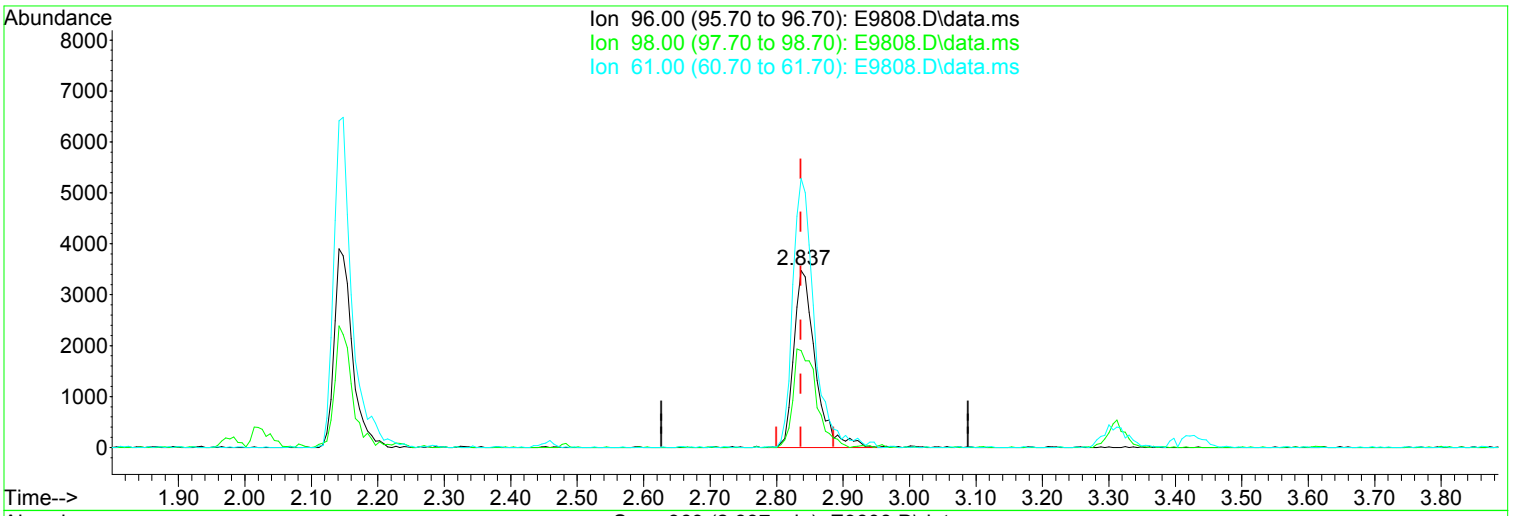
Before

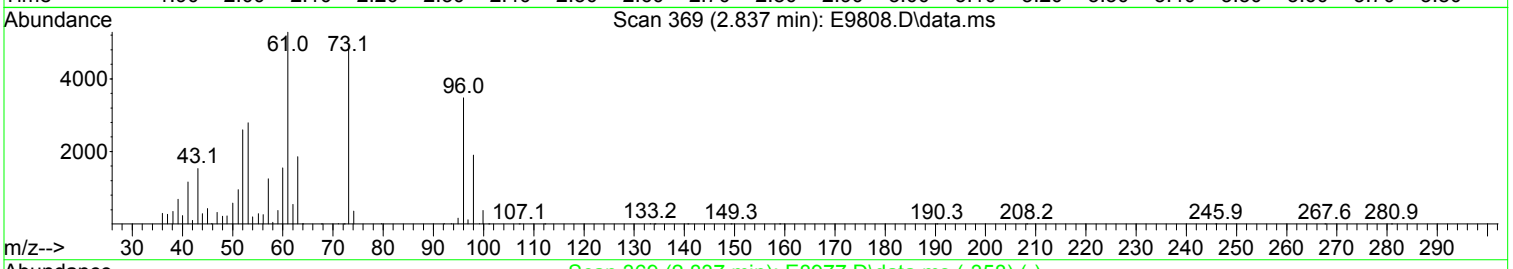
02/16/24

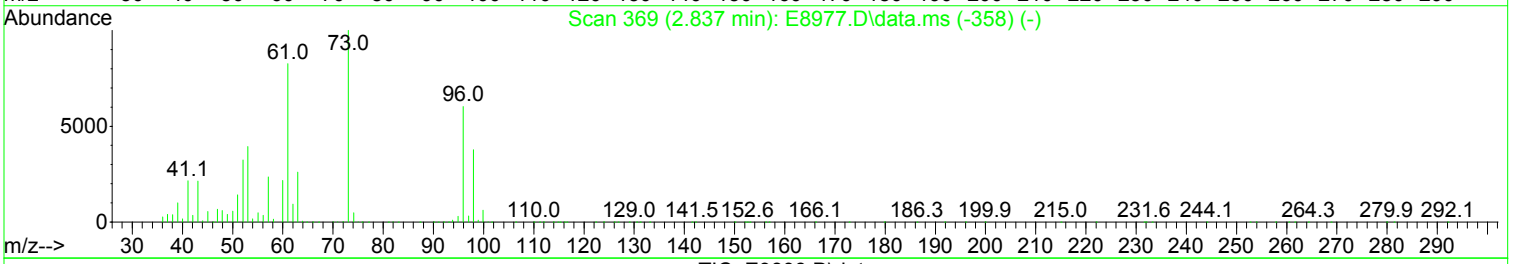
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9808.D\data.ms

(27) trans-1,2-Dichloroethene (P)

2.837min (+ 0.000) 1.80 ug/L m

response 7874

Ion	Exp%	Act%
96.00	100.00	100.00
98.00	62.60	54.82
61.00	136.90	151.97
0.00	0.00	0.00

Manual Integration:

After

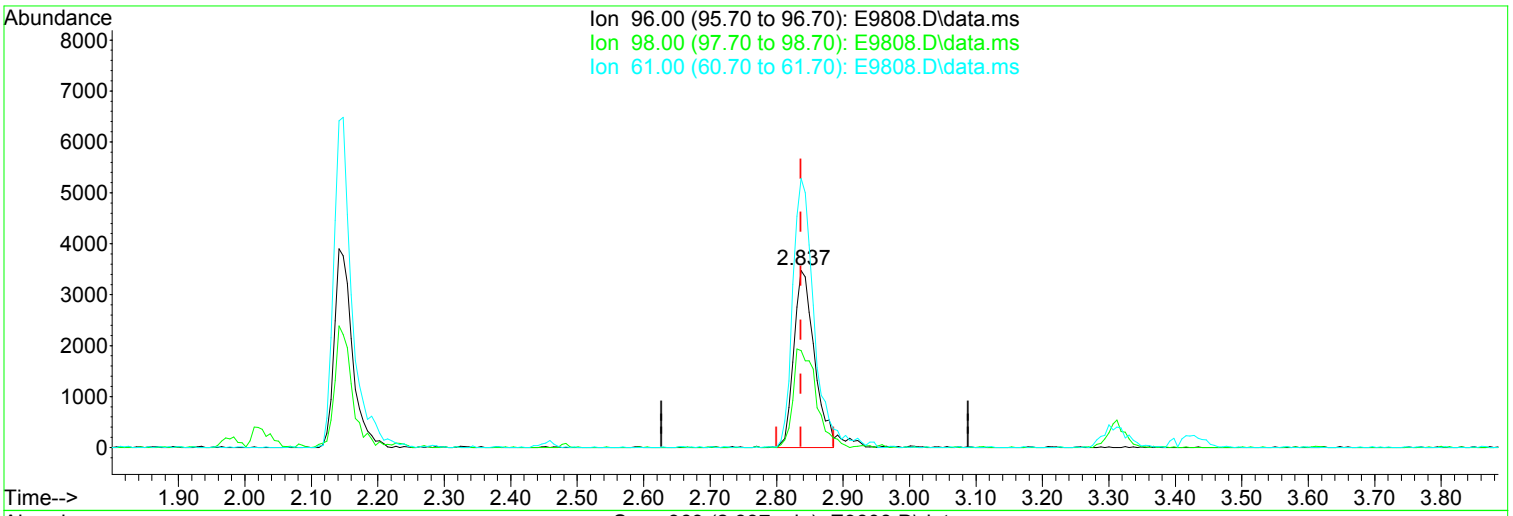
Poor integration.

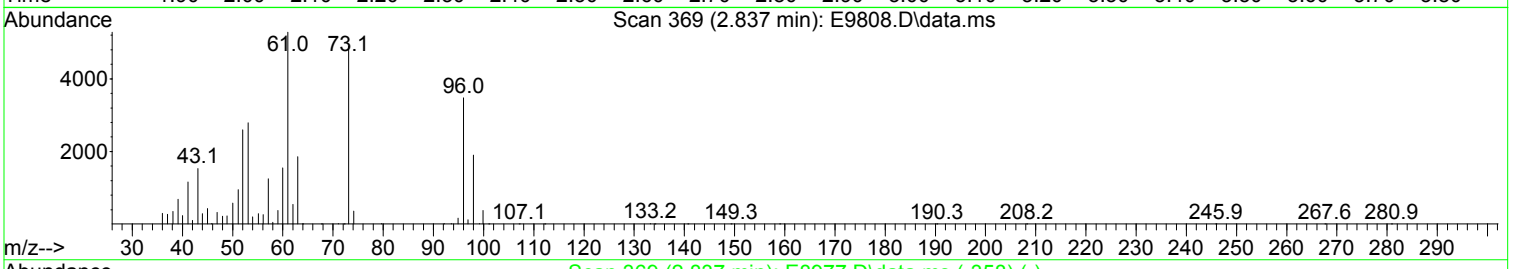
02/16/24

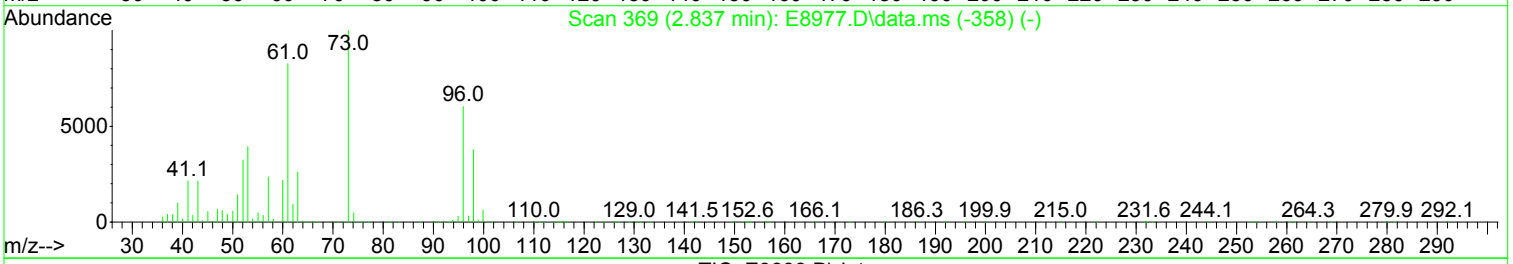
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9808.D\data.ms

(27) trans-1,2-Dichloroethene (P)

2.837min (+ 0.000) 1.71 ug/L

response 7461

Ion	Exp%	Act%
96.00	100.00	100.00
98.00	62.60	54.82
61.00	136.90	151.97
0.00	0.00	0.00

Manual Integration:

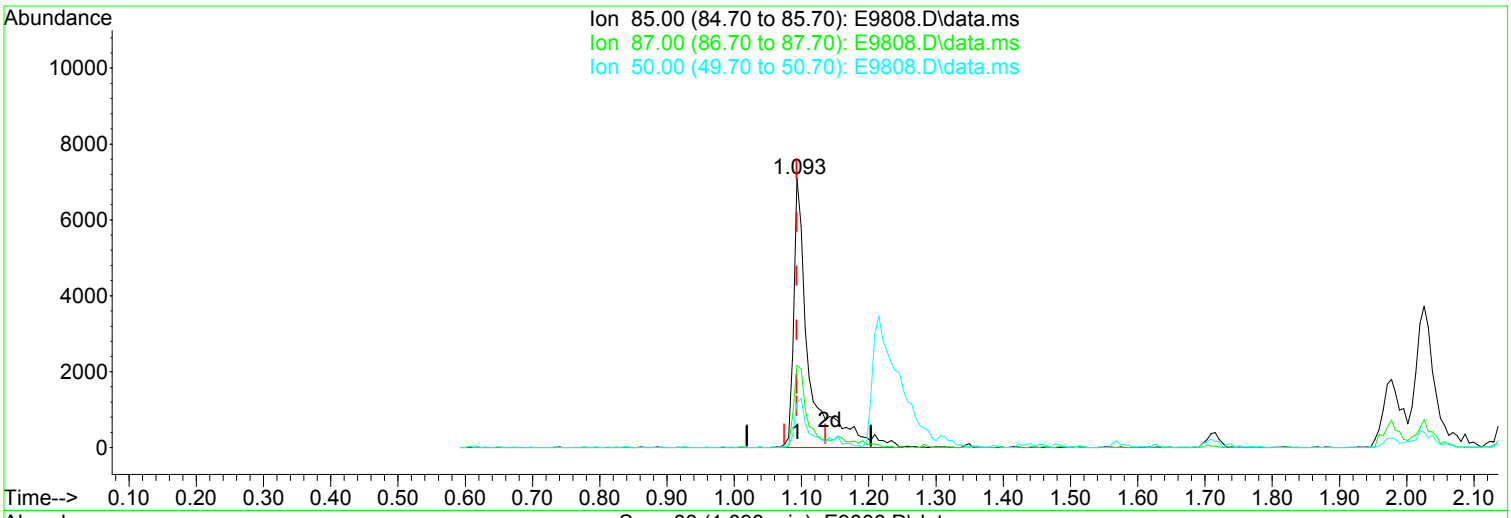
Before

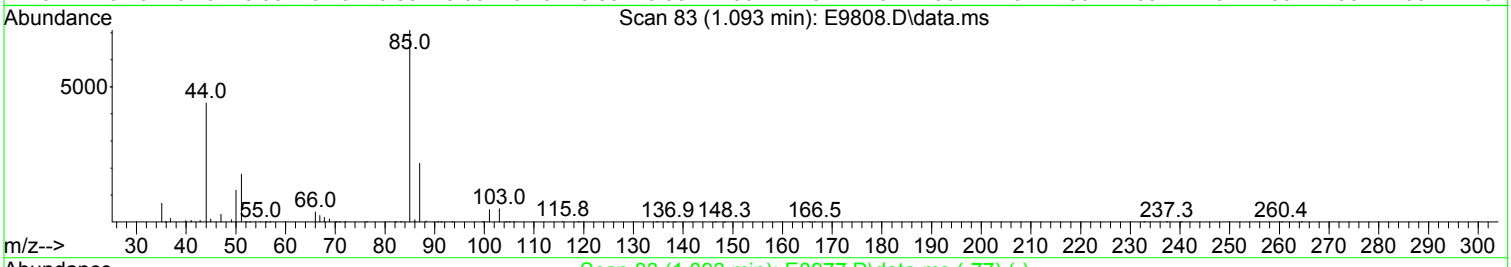
02/16/24

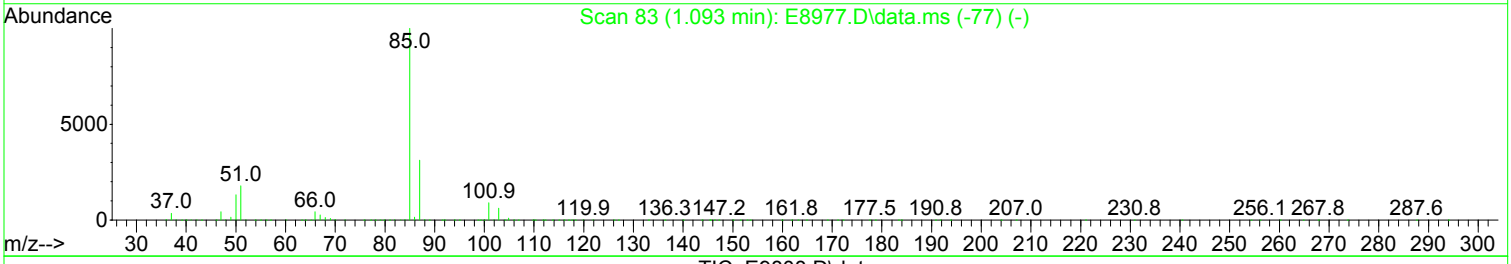
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9808.D\data.ms

(3) Dichlorodifluoromethane (P)

1.093min (+ 0.000) 2.07 ug/L m

response 11460

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.10	30.58
50.00	13.20	16.64
0.00	0.00	0.00

Manual Integration:

After

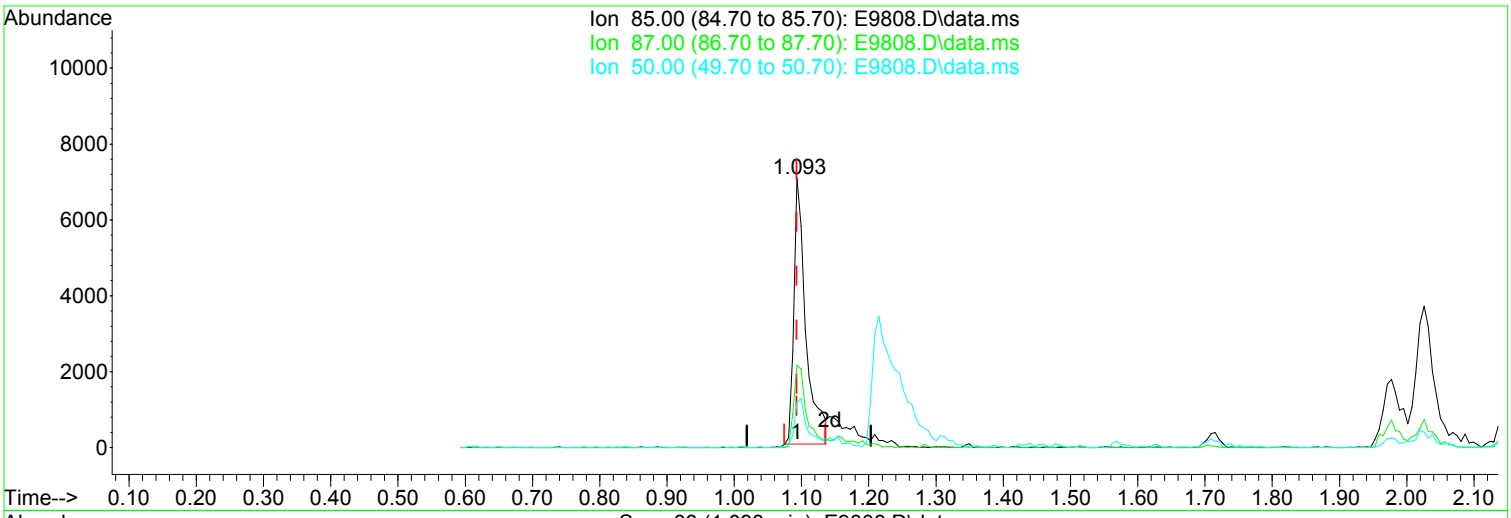
Poor integration.

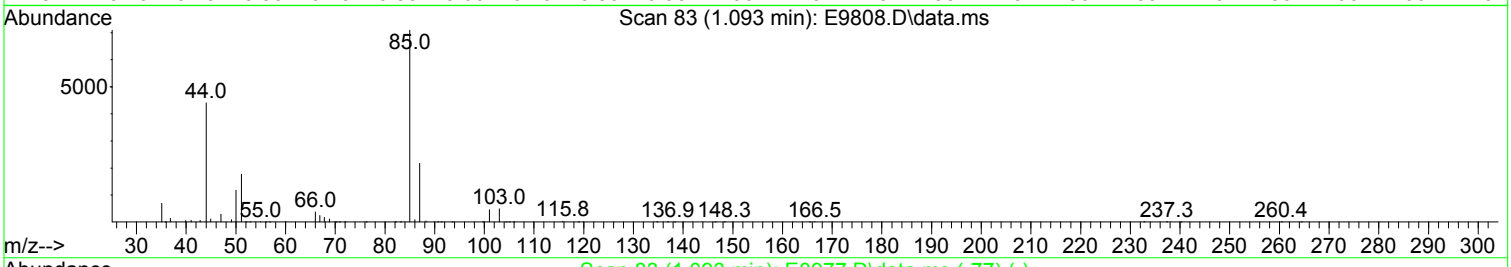
02/16/24

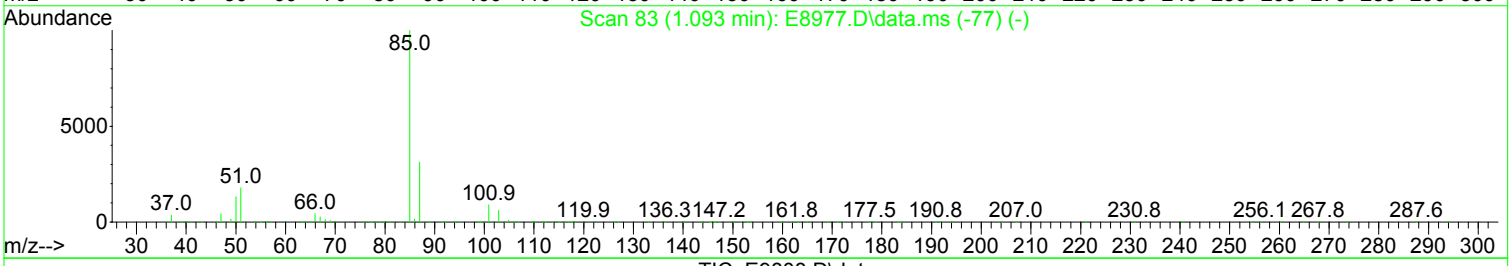
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9808.D\data.ms

(3) Dichlorodifluoromethane (P)

1.093min (+ 0.000) 1.57 ug/L

response 8674

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.10	30.58
50.00	13.20	16.64
0.00	0.00	0.00

Manual Integration:

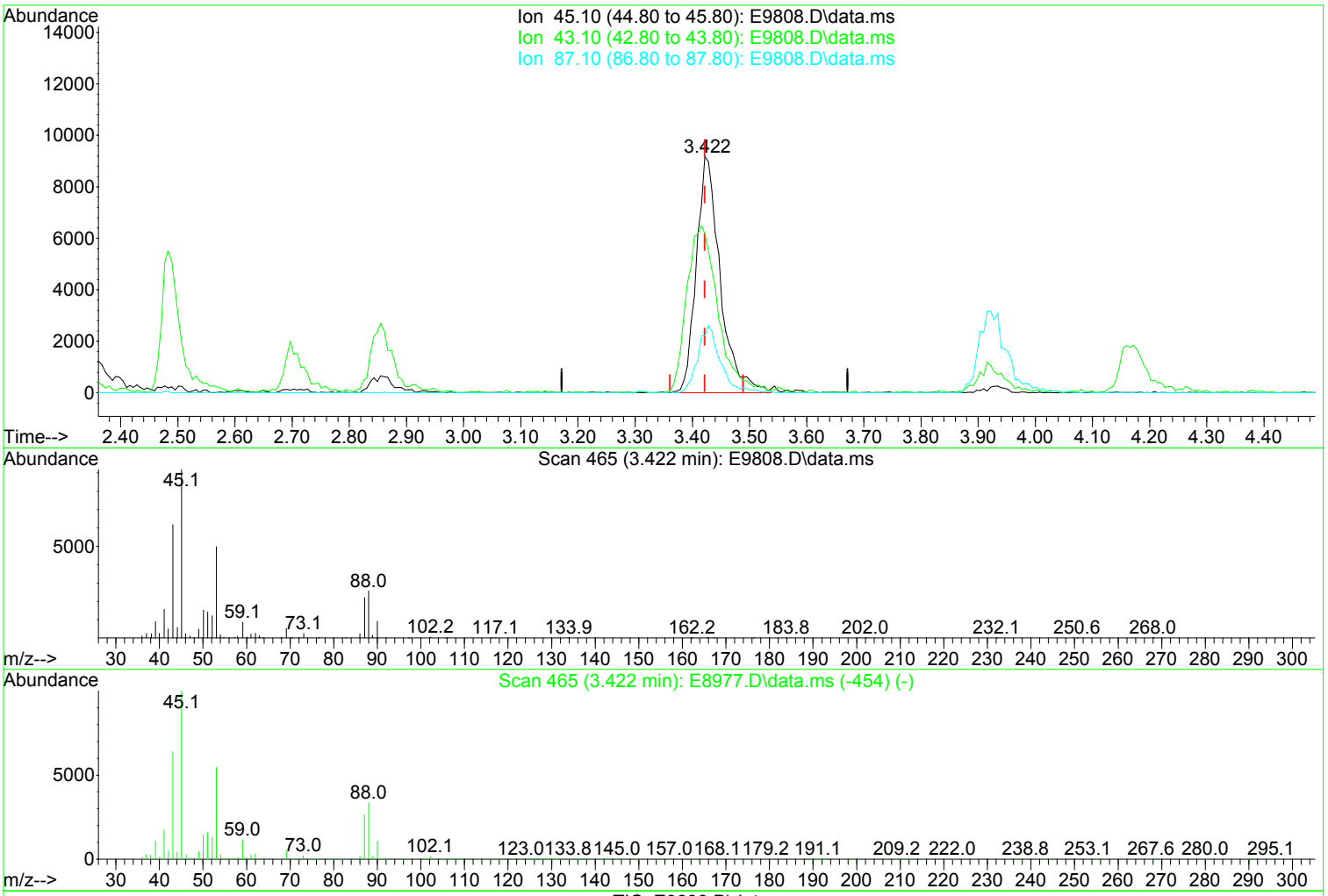
Before

02/16/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration



TIC: E9808.D\data.ms

(30) DIPE

3.422min (+ 0.000) 1.89 ug/L m

response 26656

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	64.40	67.40
87.10	26.60	24.20
0.00	0.00	0.00

Manual Integration:

After

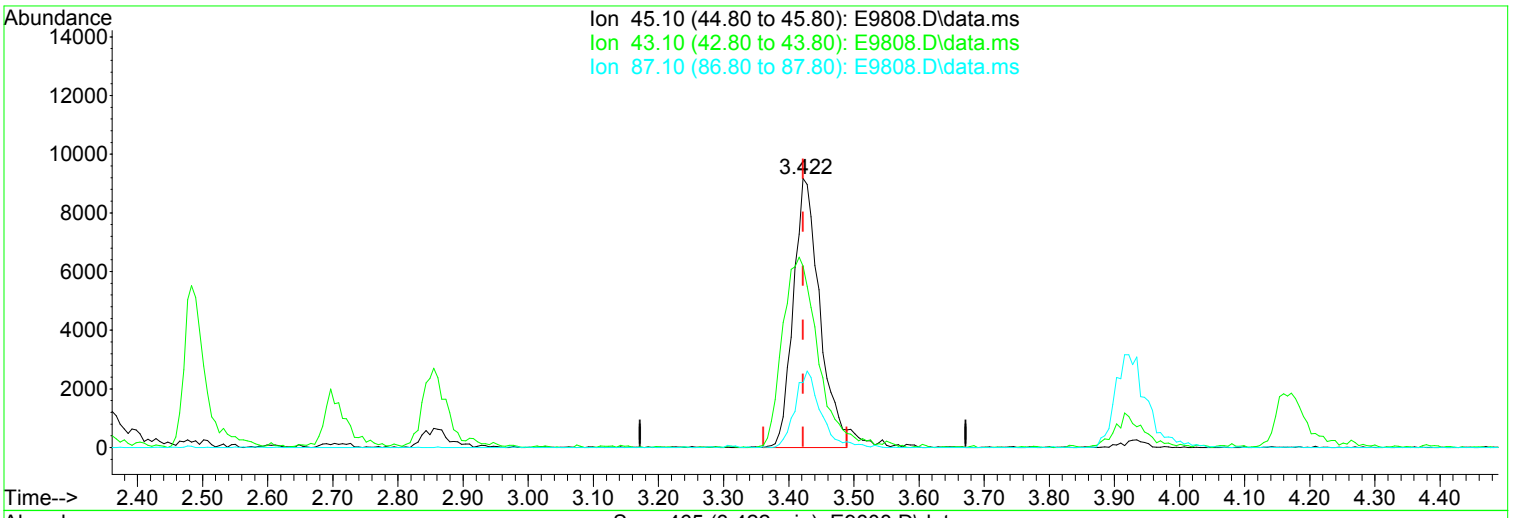
Poor integration.

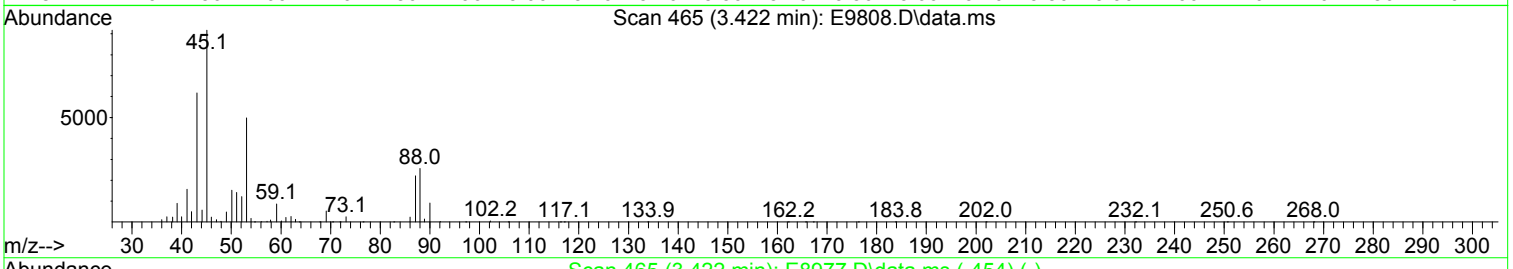
02/16/24

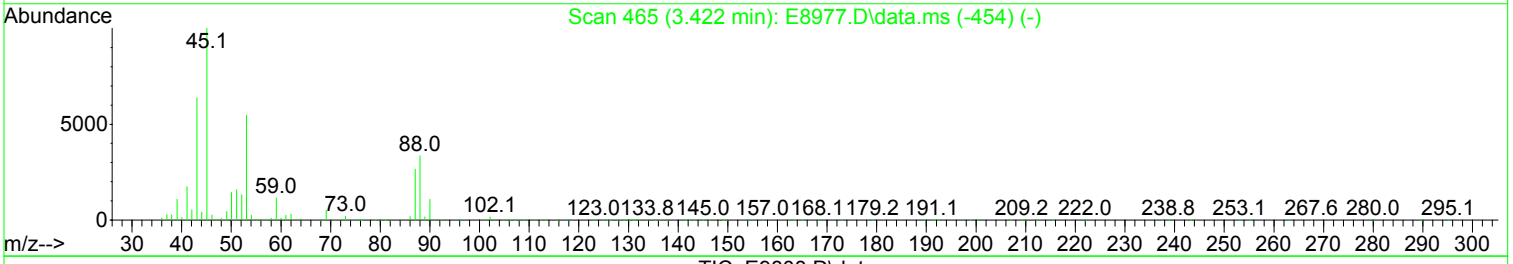
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9808.D\data.ms

(30) DIPE

3.422min (+ 0.000) 1.83 ug/L

response 25801

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	64.40	67.40
87.10	26.60	24.20
0.00	0.00	0.00

Manual Integration:

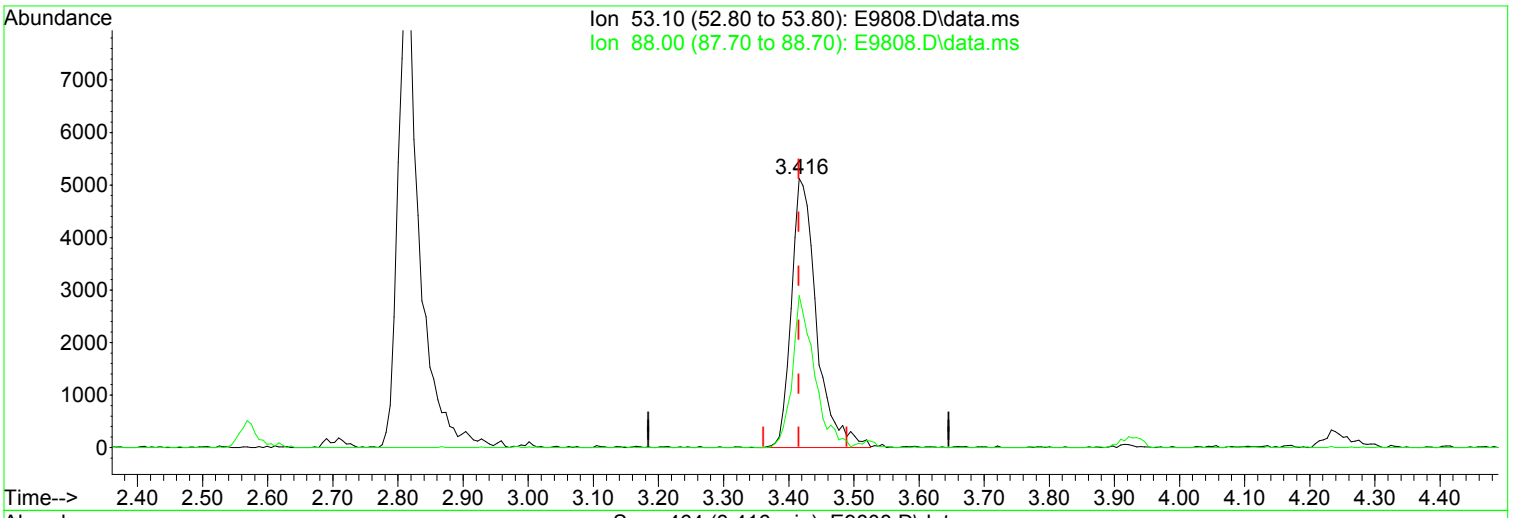
Before

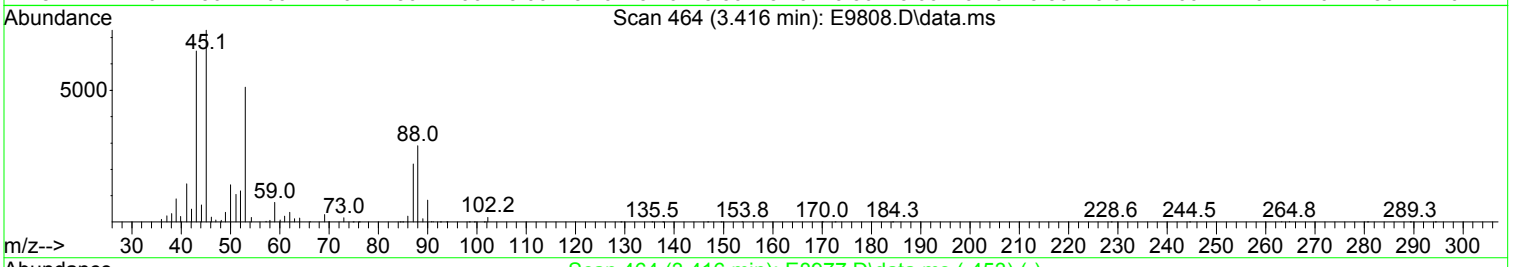
02/16/24

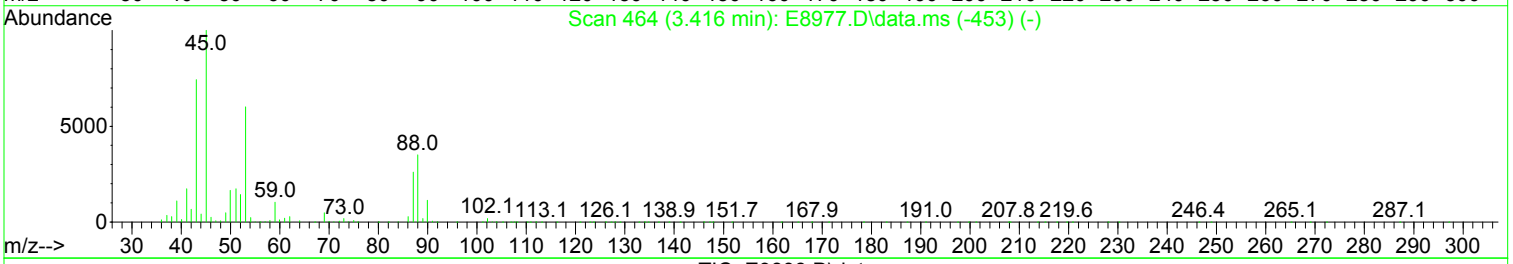
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9808.D\data.ms

(31) 2-Chloro-1,3-Butadiene

3.416min (+ 0.000) 2.03 ug/L m

response 13725

Ion	Exp%	Act%
53.10	100.00	100.00
88.00	58.30	56.51
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

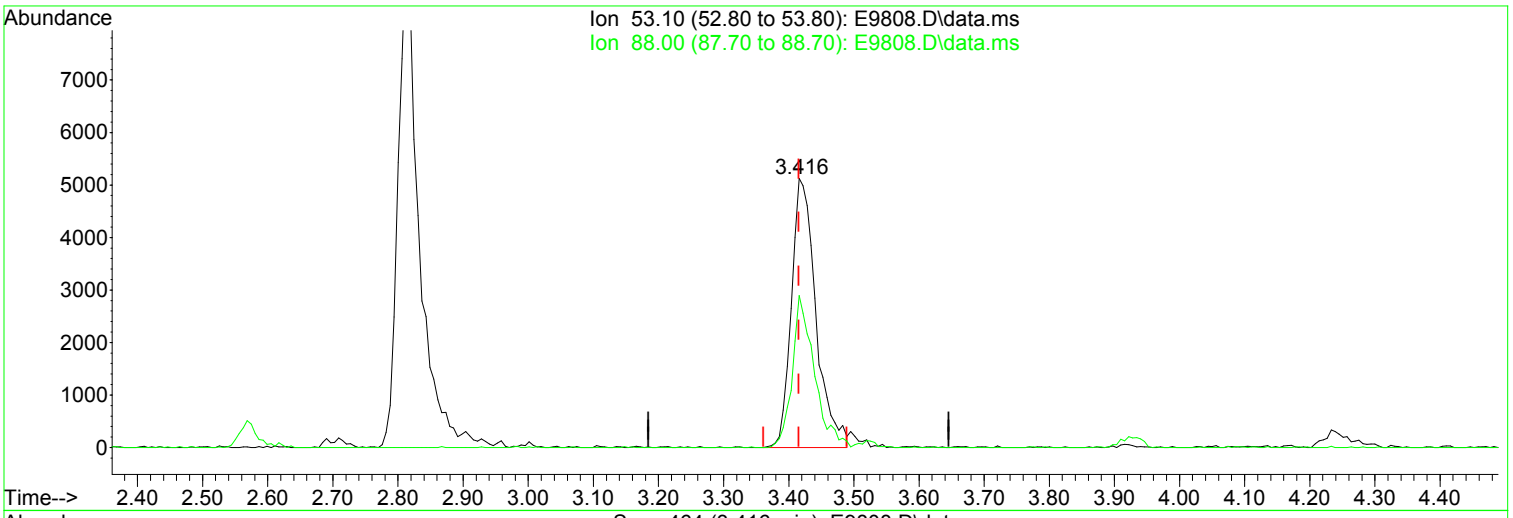
Poor integration.

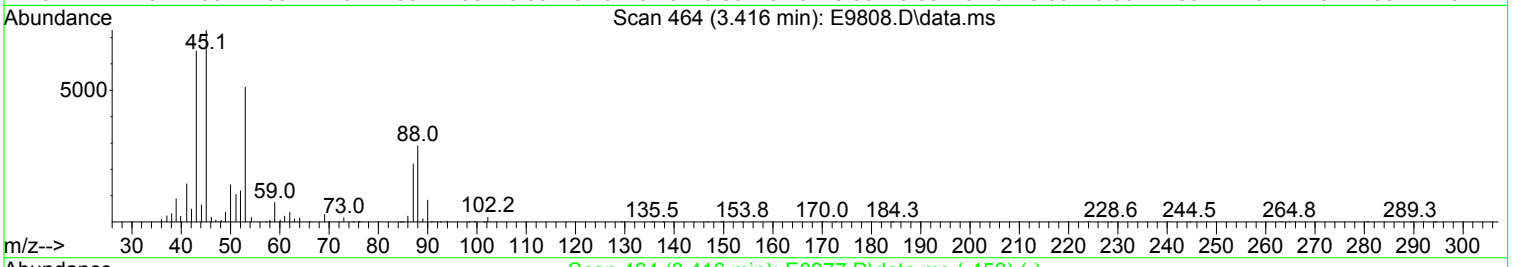
02/16/24

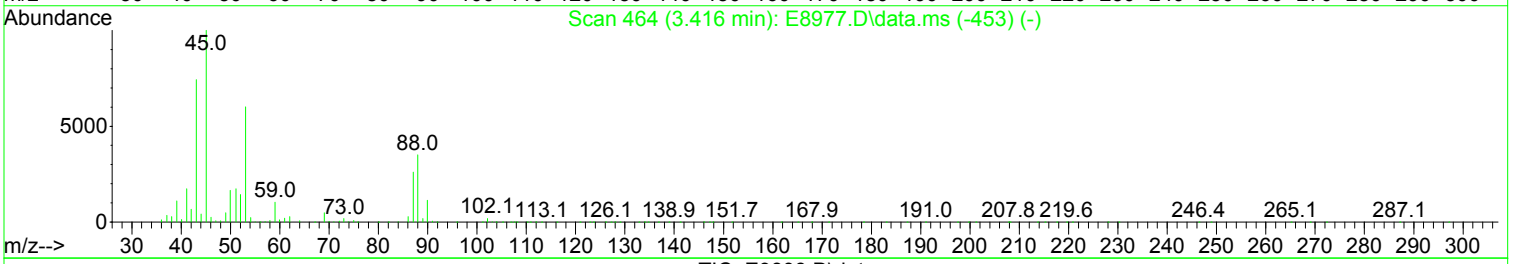
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9808.D\data.ms

(31) 2-Chloro-1,3-Butadiene

3.416min (+ 0.000) 1.98 ug/L

response 13387

Ion	Exp%	Act%
53.10	100.00	100.00
88.00	58.30	56.51
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

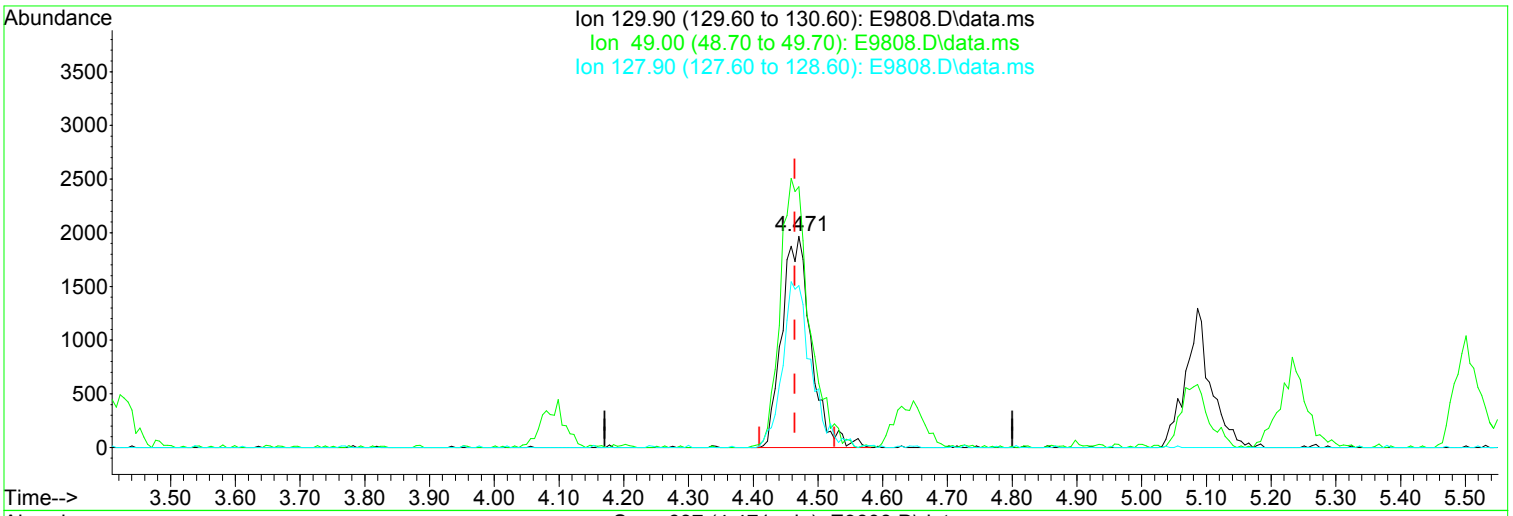
Before

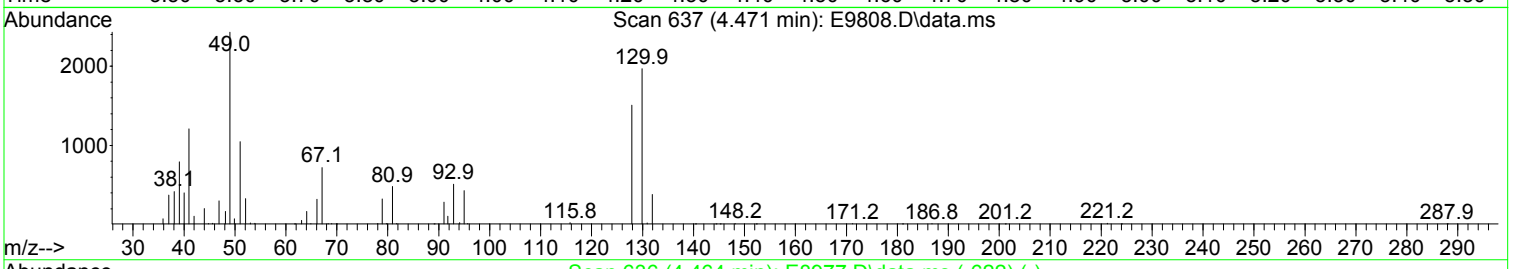
02/16/24

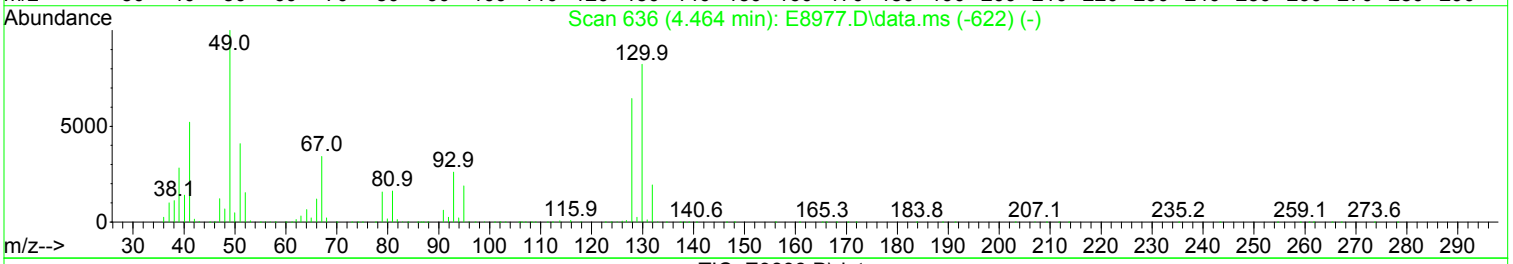
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9808.D\data.ms

(37) Bromochloromethane

4.471min (+ 0.006) 1.90 ug/L m

response 6114

Ion	Exp%	Act%
129.90	100.00	100.00
49.00	121.60	123.42
127.90	78.30	76.63
0.00	0.00	0.00

Manual Integration:

After

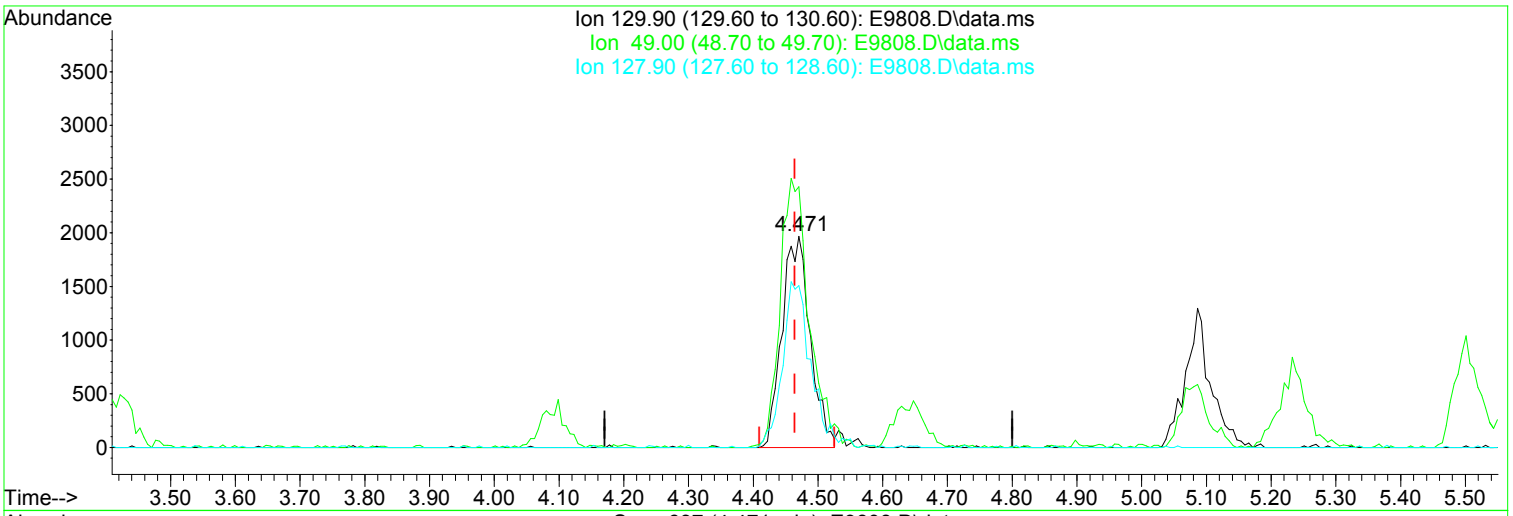
Poor integration.

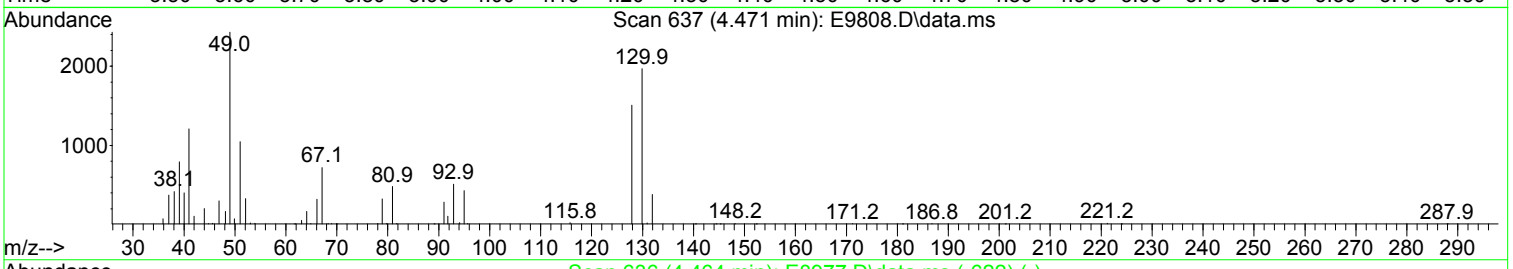
02/16/24

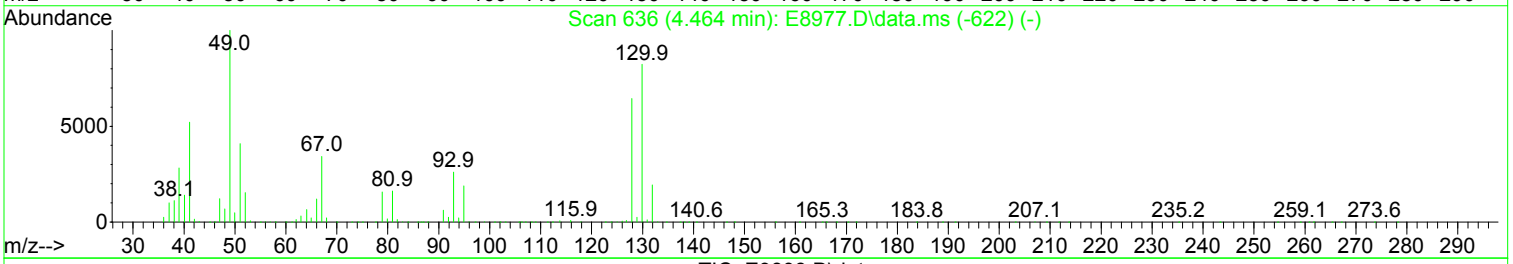
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9808.D\data.ms

(37) Bromochloromethane

4.471min (+ 0.006) 1.84 ug/L

response 5927

Ion	Exp%	Act%
129.90	100.00	100.00
49.00	121.60	123.42
127.90	78.30	76.63
0.00	0.00	0.00

Manual Integration:

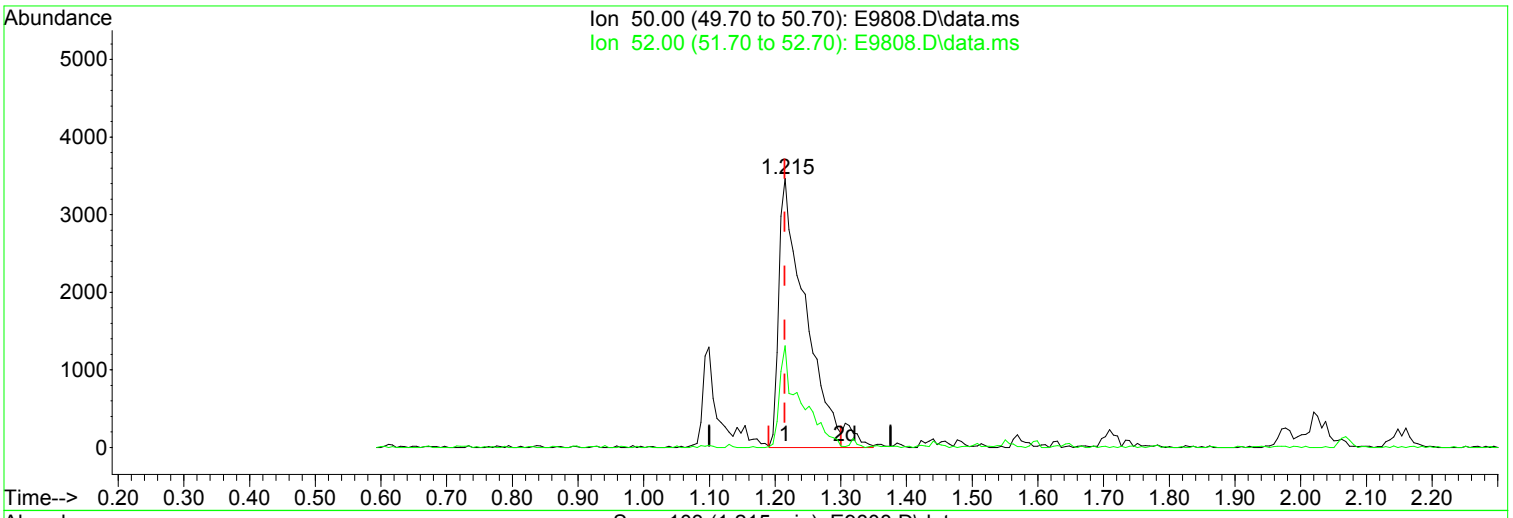
Before

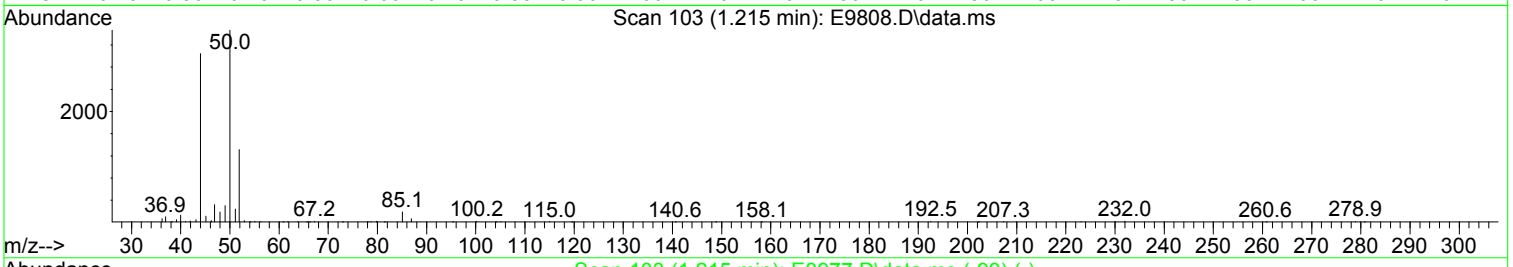
02/16/24

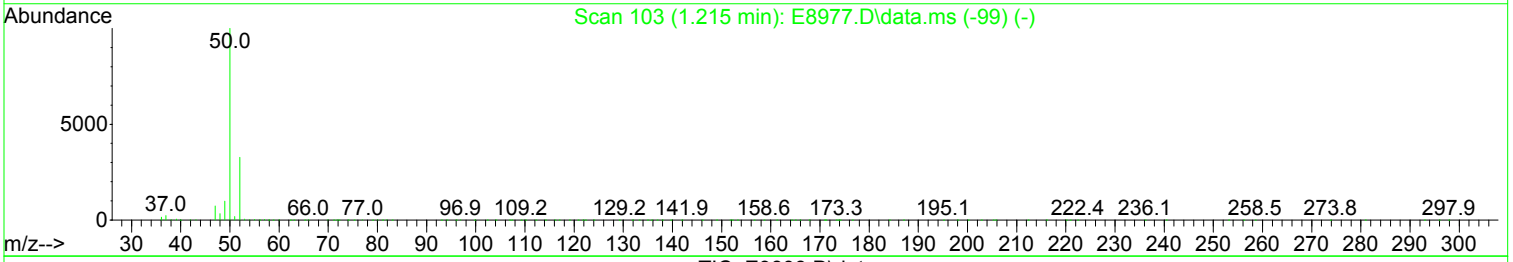
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9808.D\data.ms

(4) Chloromethane (P)

1.215min (+ 0.000) 1.96 ug/L m

response 9948

Ion	Exp%	Act%
50.00	100.00	100.00
52.00	32.80	37.85
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

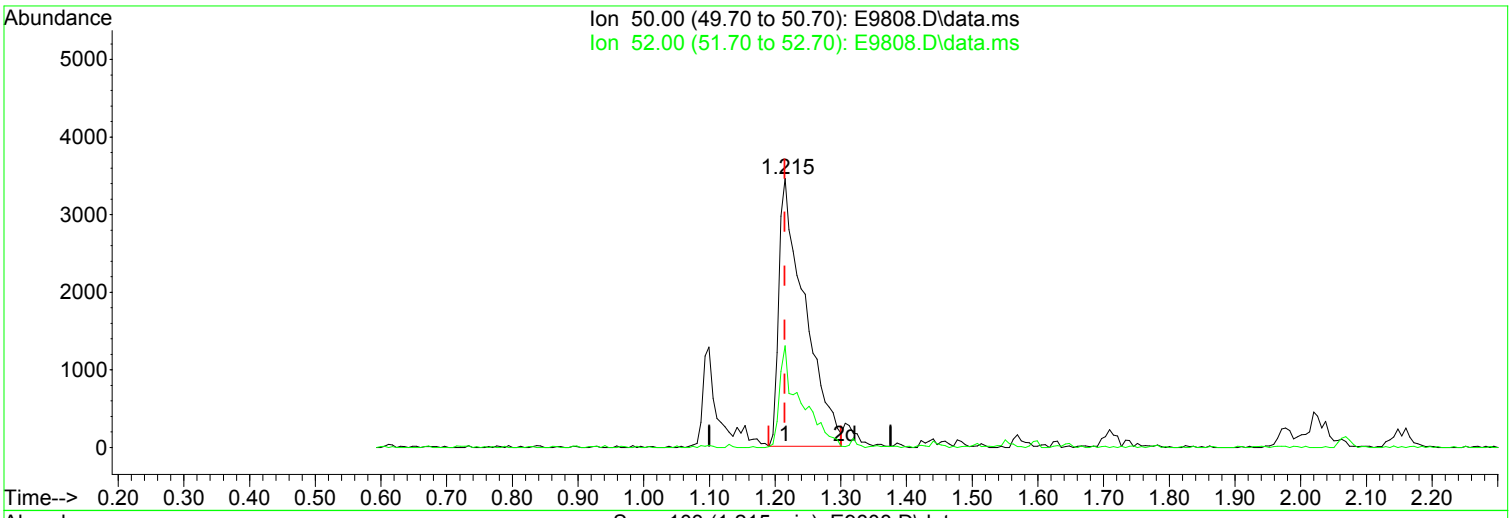
Poor integration.

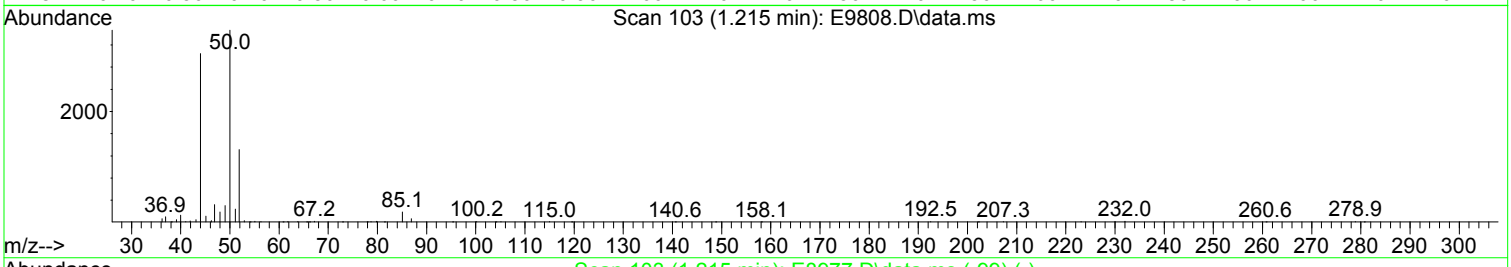
02/16/24

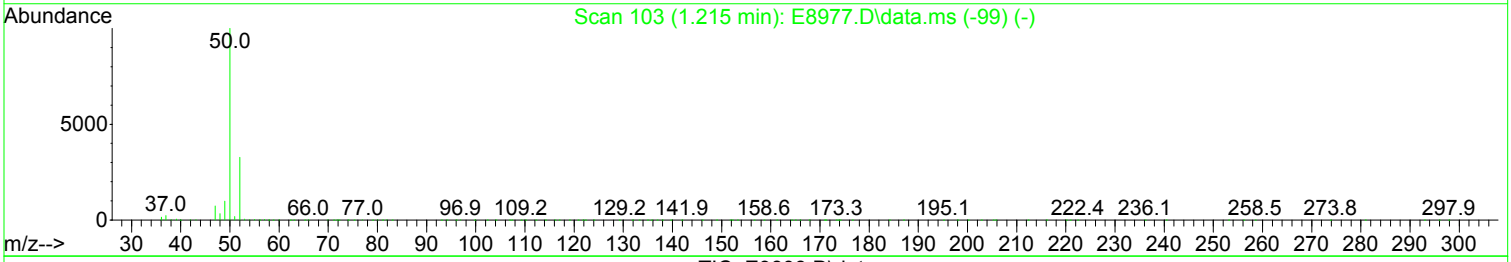
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9808.D\data.ms

(4) Chloromethane (P)

1.215min (+ 0.000) 1.85 ug/L

response 9411

Ion	Exp%	Act%
50.00	100.00	100.00
52.00	32.80	37.85
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

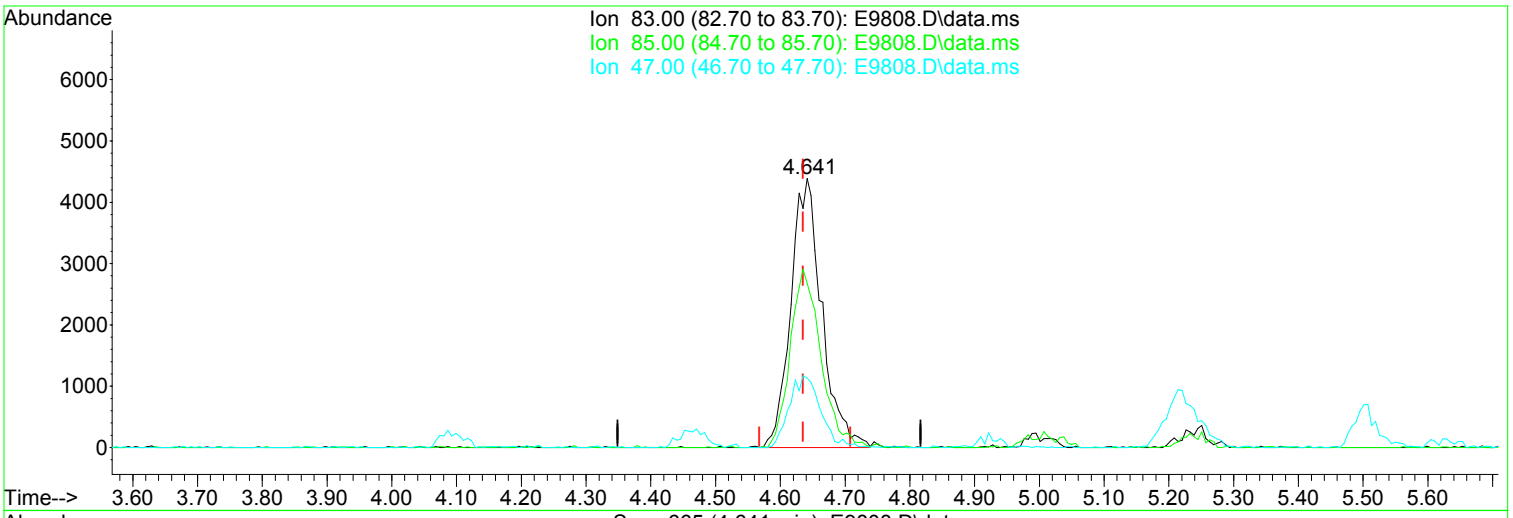
Before

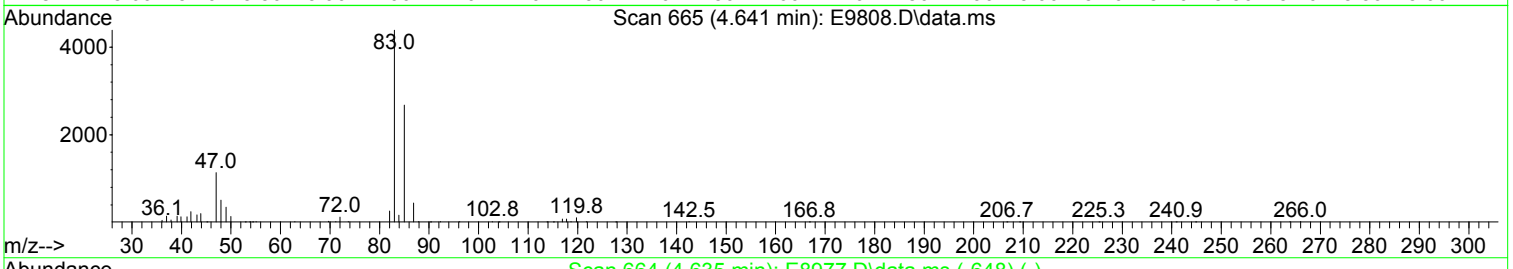
02/16/24

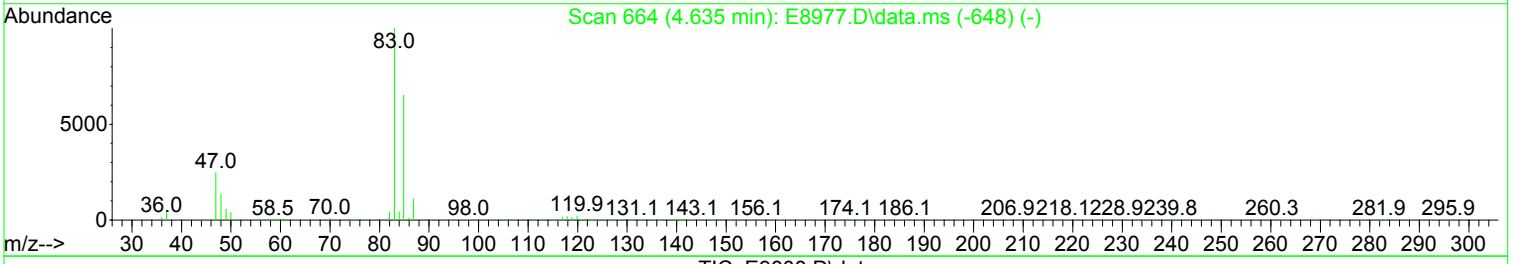
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9808.D\data.ms

(40) Chloroform (P)

4.641min (+ 0.006) 1.93 ug/L m

response 14581

Ion	Exp%	Act%
83.00	100.00	100.00
85.00	65.20	61.04
47.00	25.00	25.83
0.00	0.00	0.00

Manual Integration:

After

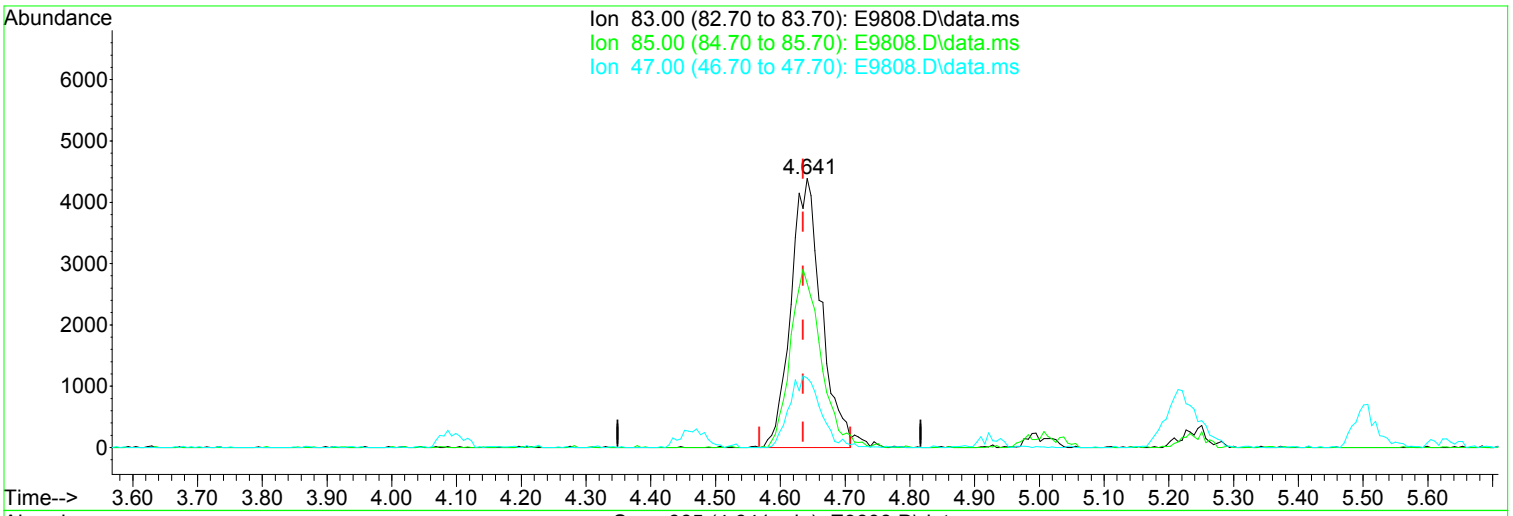
Poor integration.

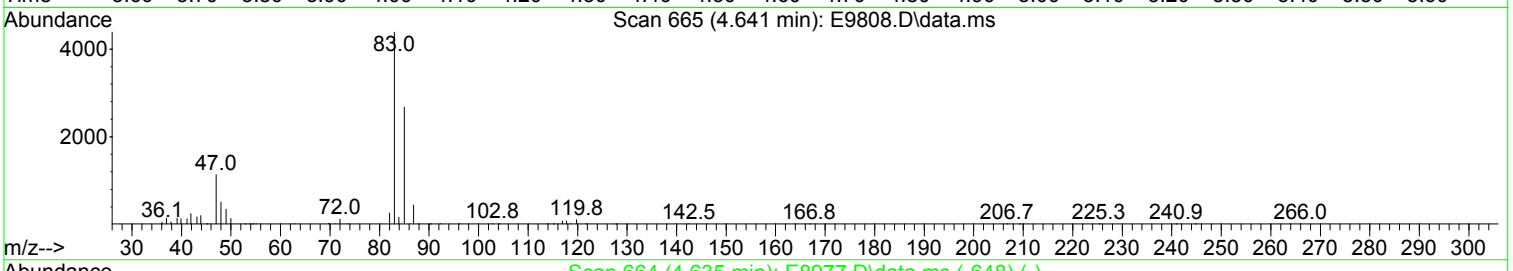
02/16/24

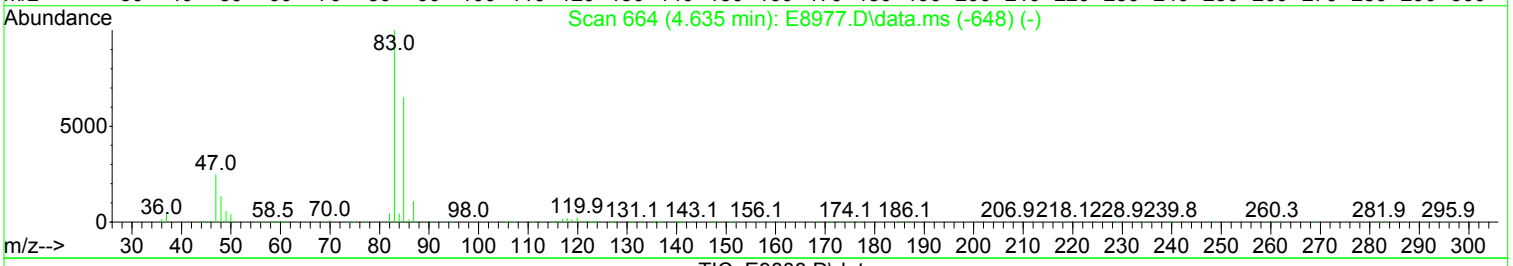
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9808.D\data.ms

(40) Chloroform (P)

4.641min (+ 0.006) 1.90 ug/L

response 14356

Ion	Exp%	Act%
83.00	100.00	100.00
85.00	65.20	61.04
47.00	25.00	25.83
0.00	0.00	0.00

Manual Integration:

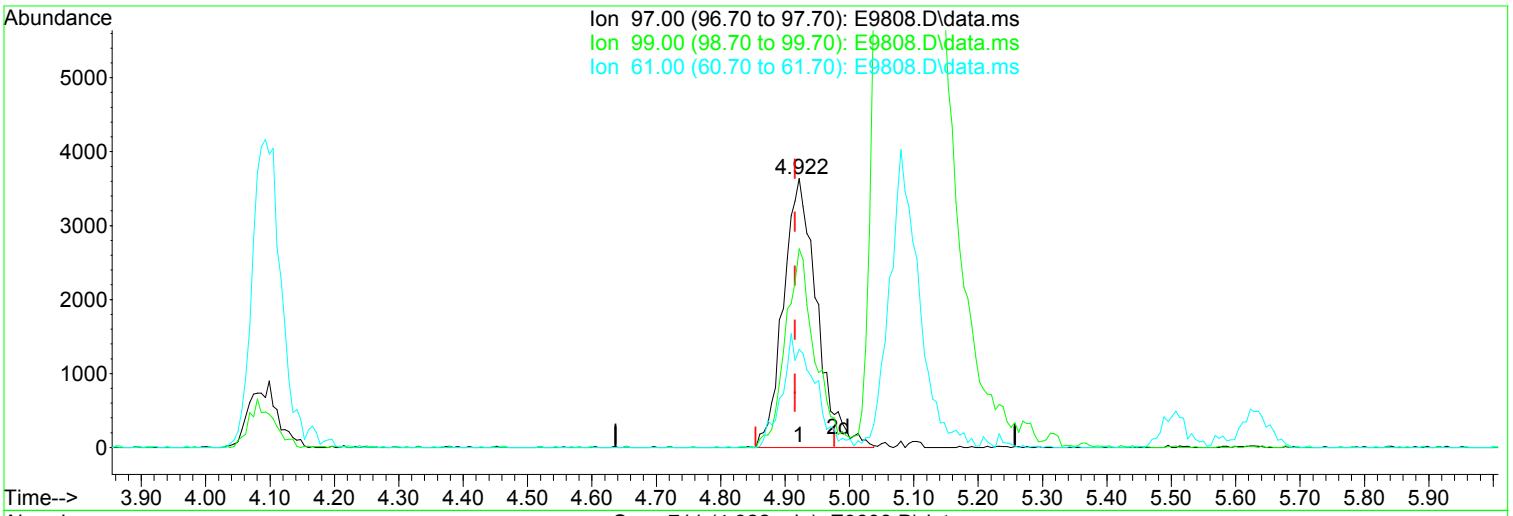
Before

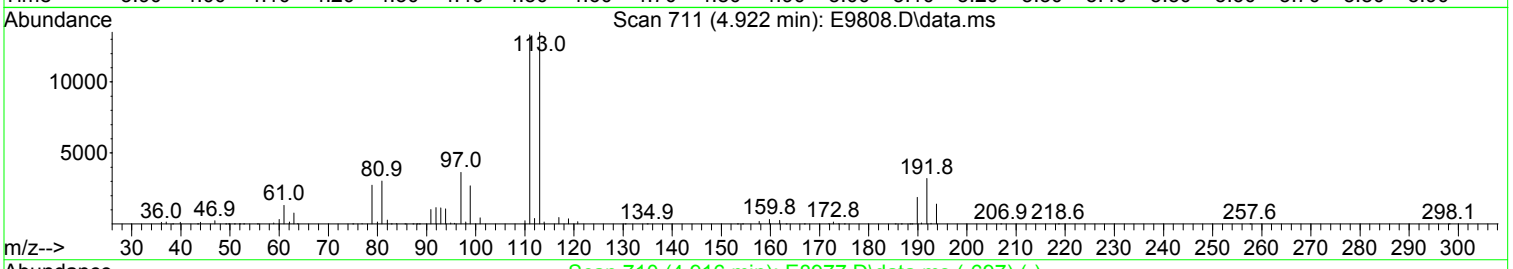
02/16/24

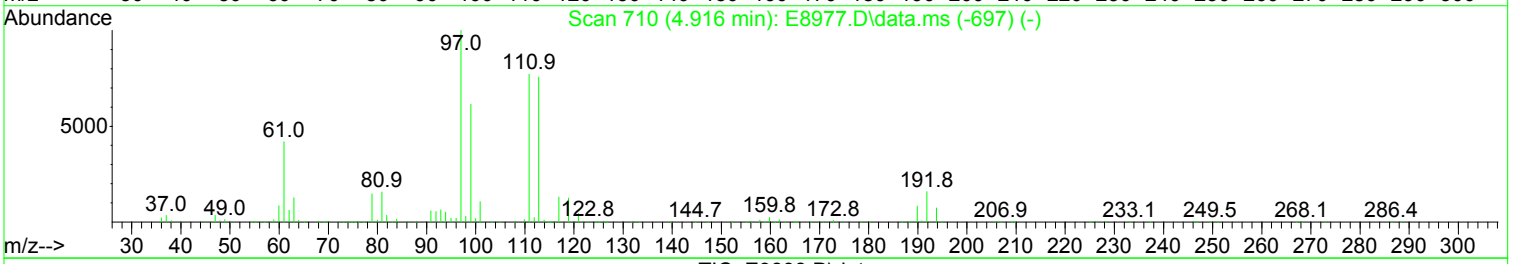
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9808.D\data.ms

(41) 1,1,1-Trichloroethane (P)

4.922min (+ 0.006) 1.97 ug/L m

response 13190

Ion	Exp%	Act%
97.00	100.00	100.00
99.00	61.40	73.82
61.00	41.90	36.46
0.00	0.00	0.00

Manual Integration:

After

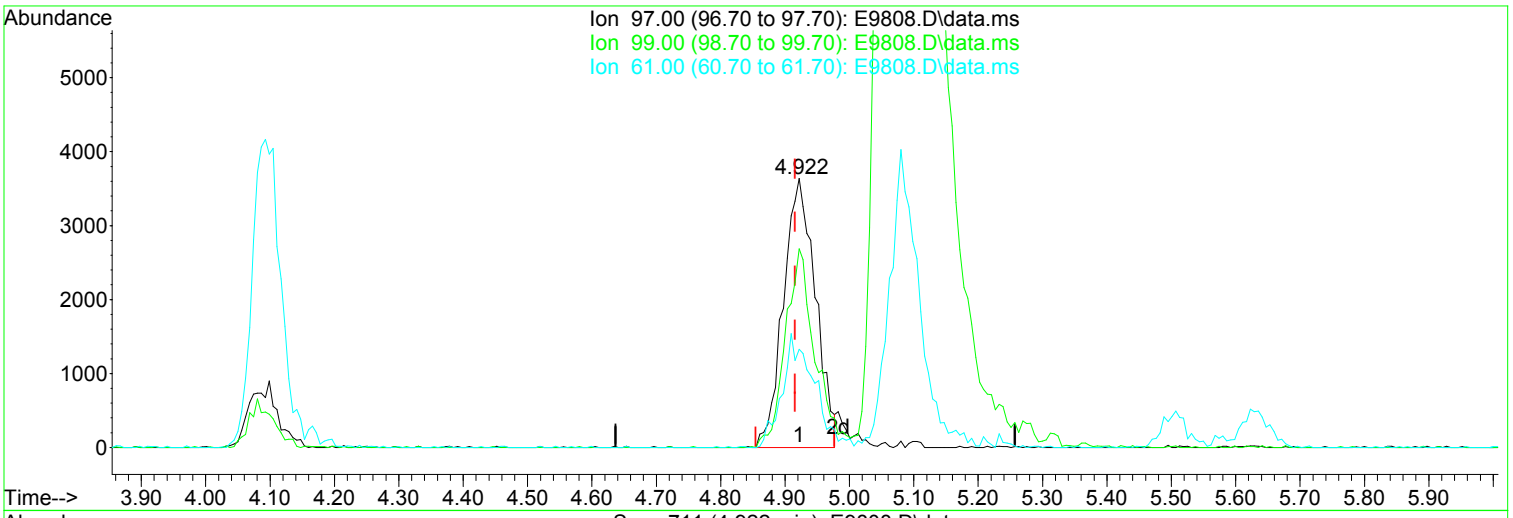
Poor integration.

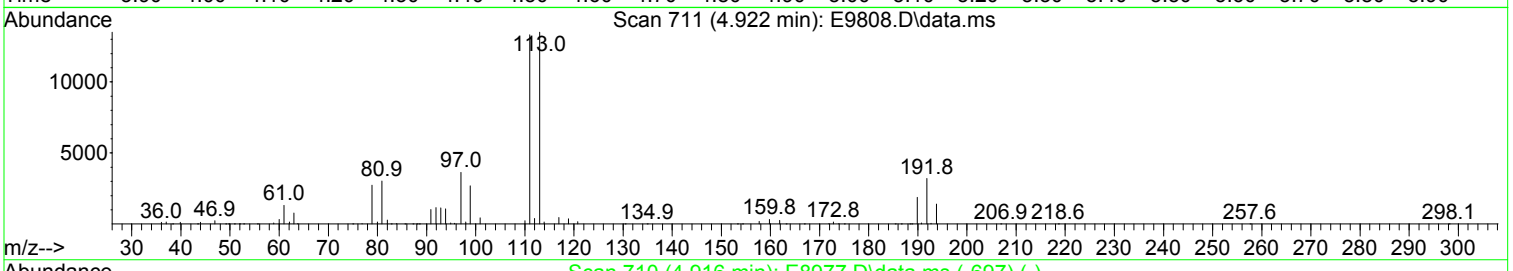
02/16/24

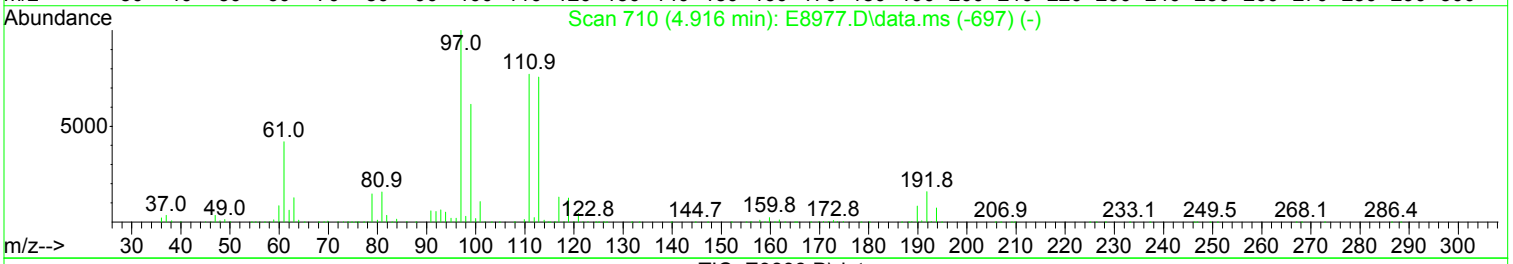
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9808.D\data.ms

(41) 1,1,1-Trichloroethane (P)

4.922min (+ 0.006) 1.88 ug/L

response 12533

Ion	Exp%	Act%
97.00	100.00	100.00
99.00	61.40	73.82
61.00	41.90	36.46
0.00	0.00	0.00

Manual Integration:

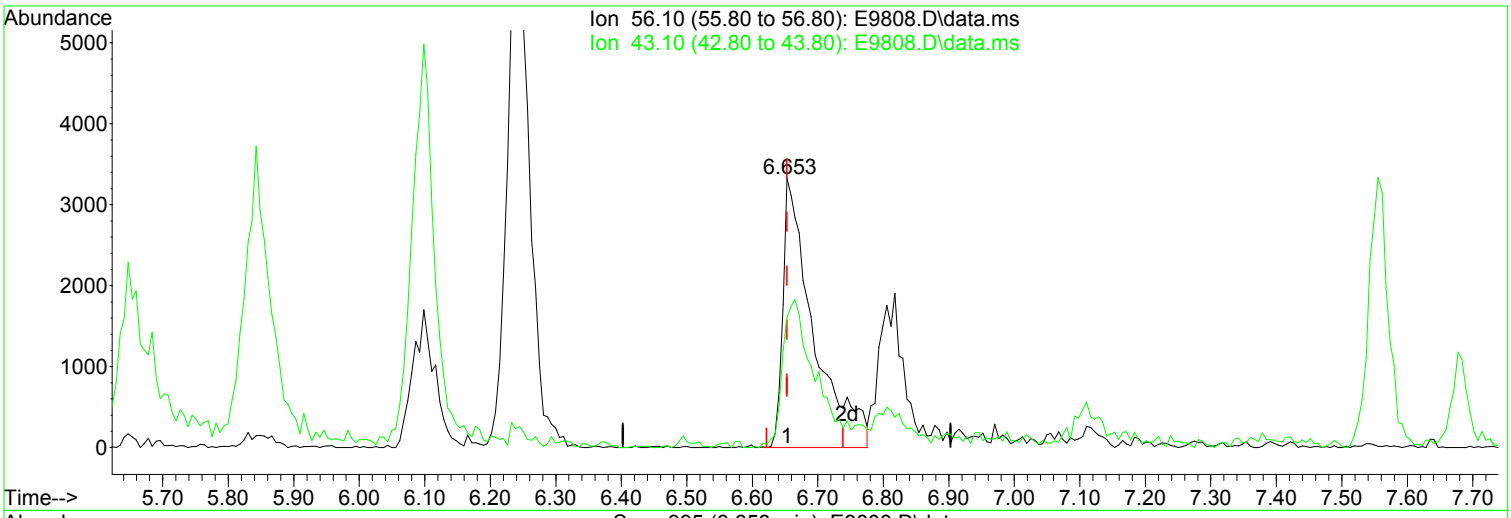
Before

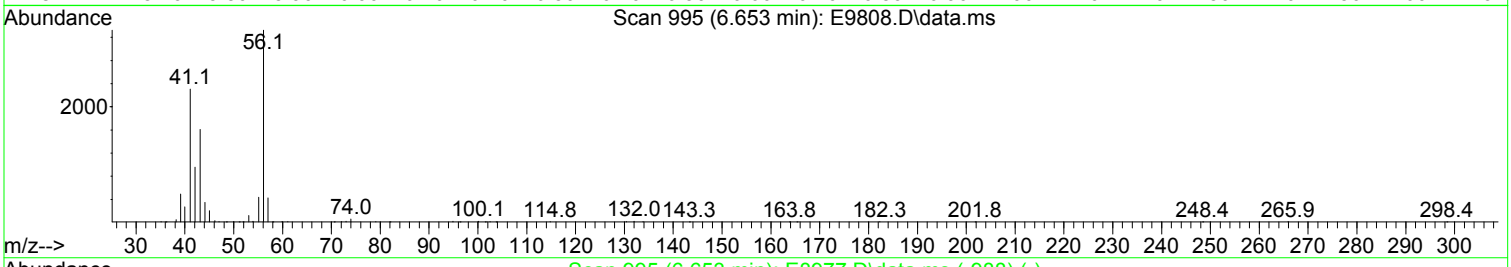
02/16/24

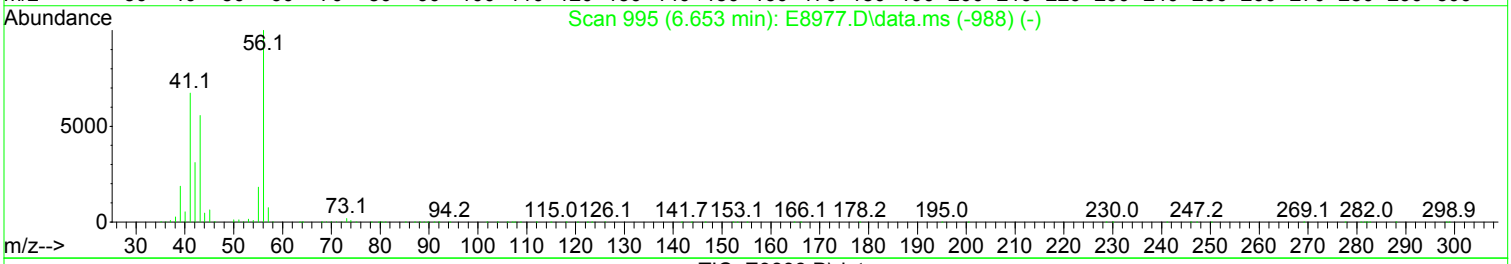
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9808.D\data.ms

(53) 1-Butanol

6.653min (+ 0.000) 105.69 ug/L m

response 10740

Ion	Exp%	Act%
56.10	100.00	100.00
43.10	56.50	48.38
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

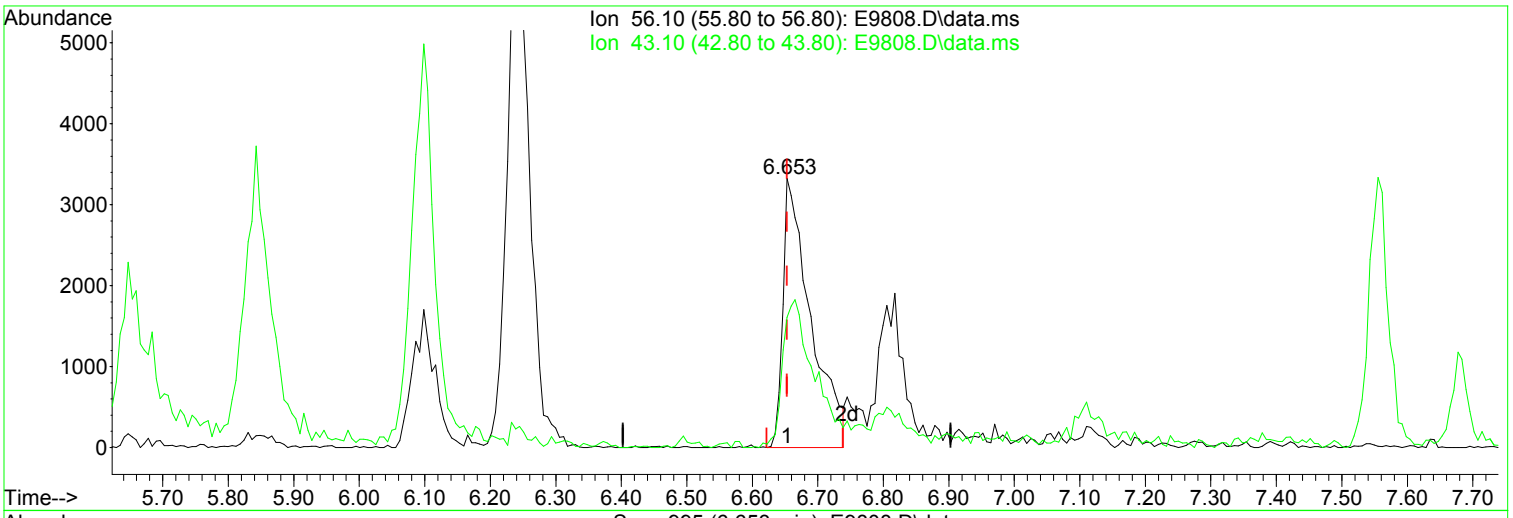
Poor integration.

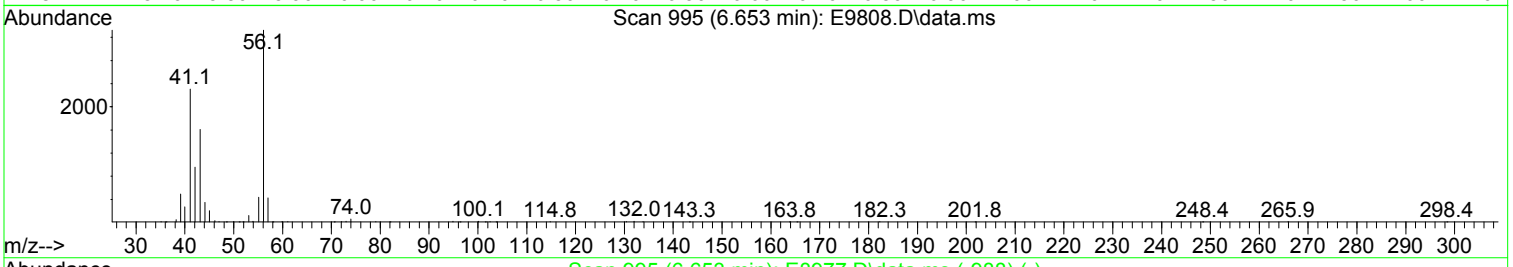
02/16/24

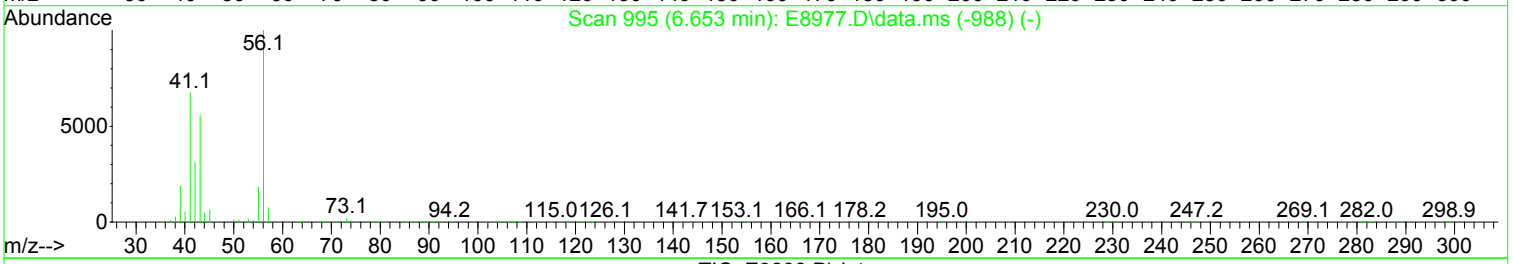
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9808.D\data.ms

(53) 1-Butanol

6.653min (+ 0.000) 95.68 ug/L

response 9722

Ion	Exp%	Act%
56.10	100.00	100.00
43.10	56.50	48.38
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

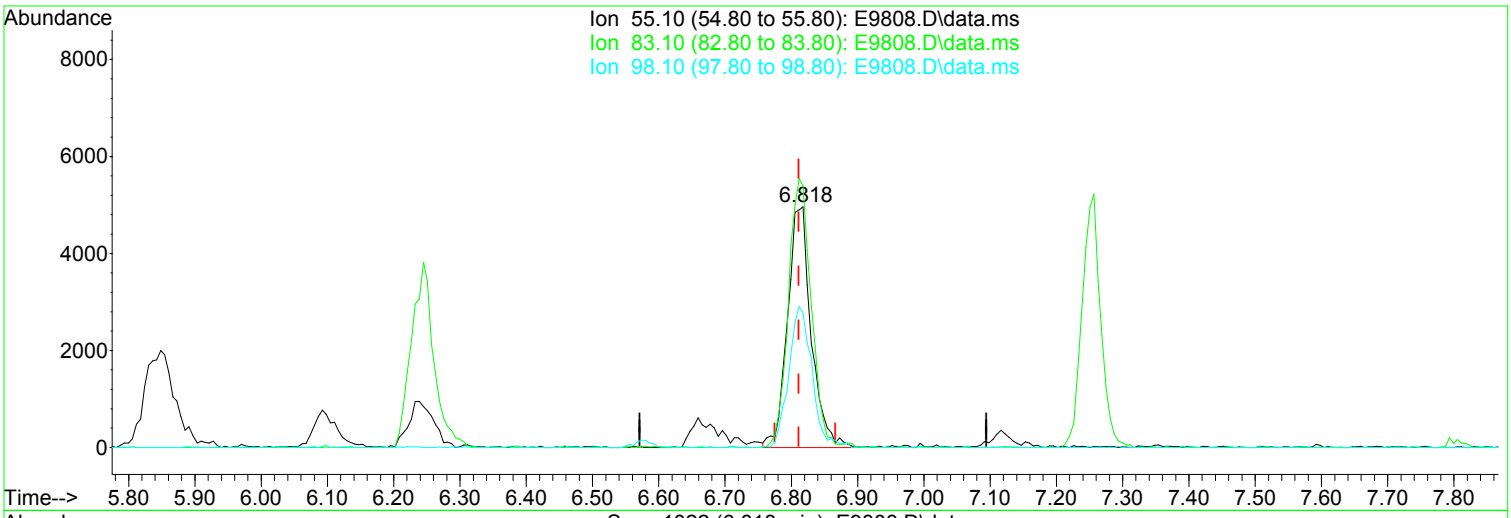
02/16/24

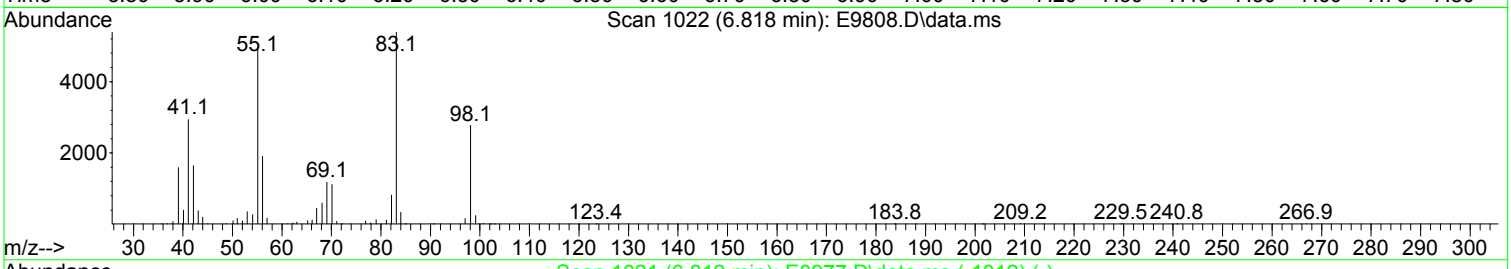
1st 02/16/24
2nd 02/16/24

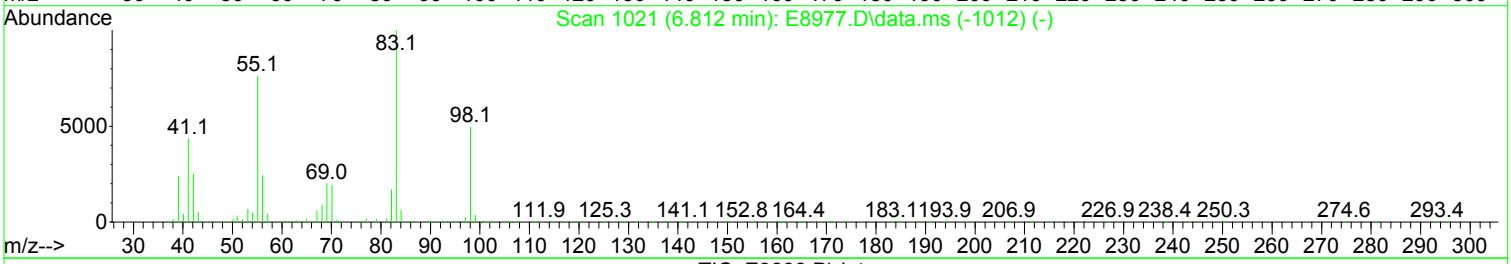
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9808.D\data.ms

(55) Methylcyclohexane (P)

6.818min (+ 0.006) 2.19 ug/L m

response 12317

Ion	Exp%	Act%
55.10	100.00	100.00
83.10	129.60	108.57#
98.10	64.50	55.84
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

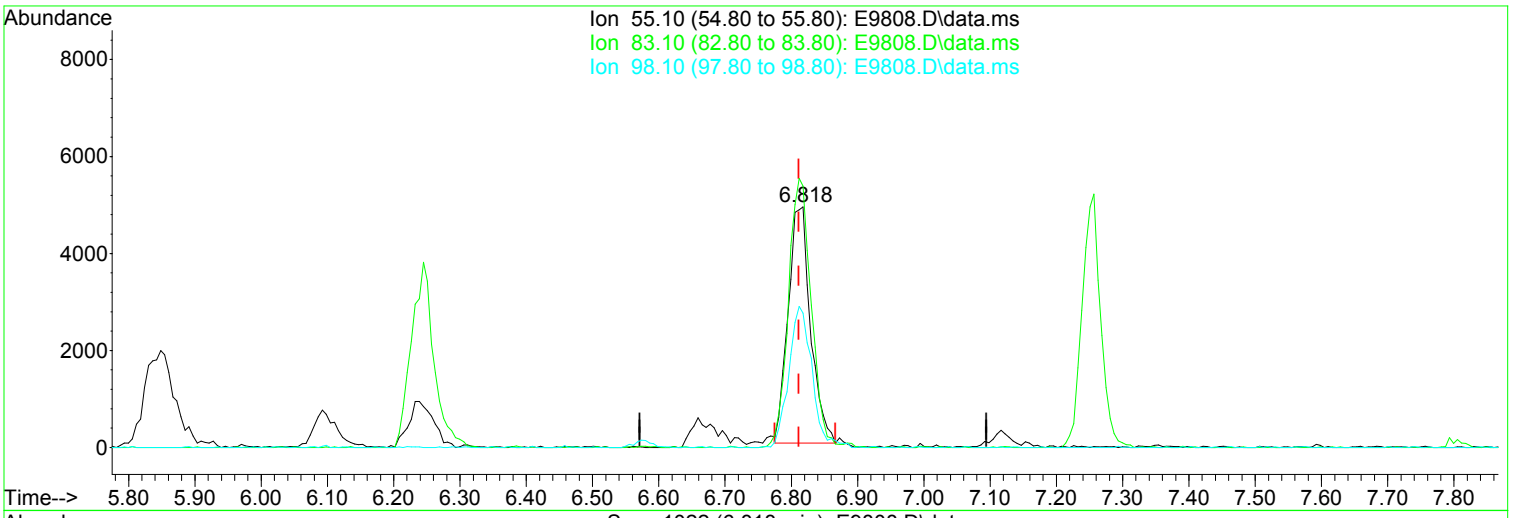
02/16/24

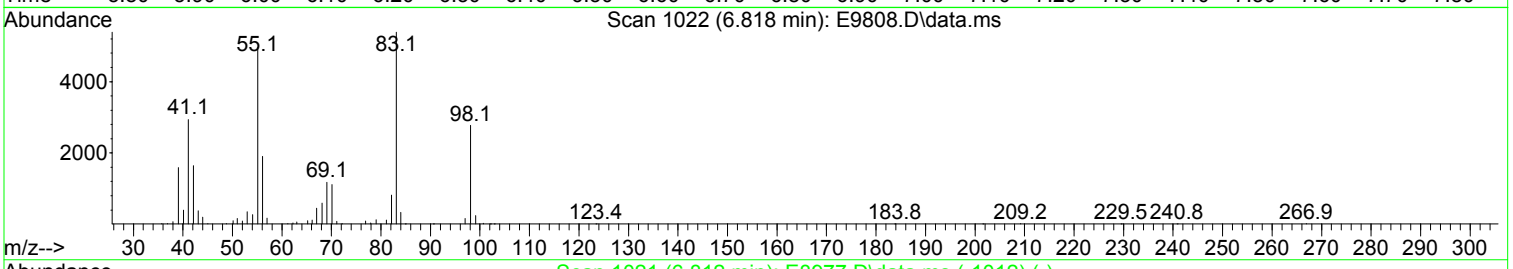
1st 02/16/24
2nd 02/16/24

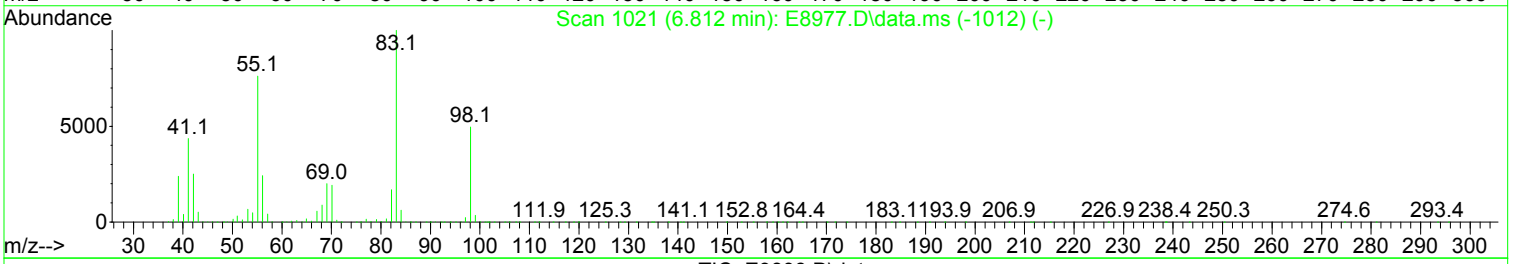
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9808.D\data.ms

(55) Methylcyclohexane (P)

6.818min (+ 0.006) 2.02 ug/L

response 11393

Ion	Exp%	Act%
55.10	100.00	100.00
83.10	129.60	108.57#
98.10	64.50	55.84
0.00	0.00	0.00

Manual Integration:

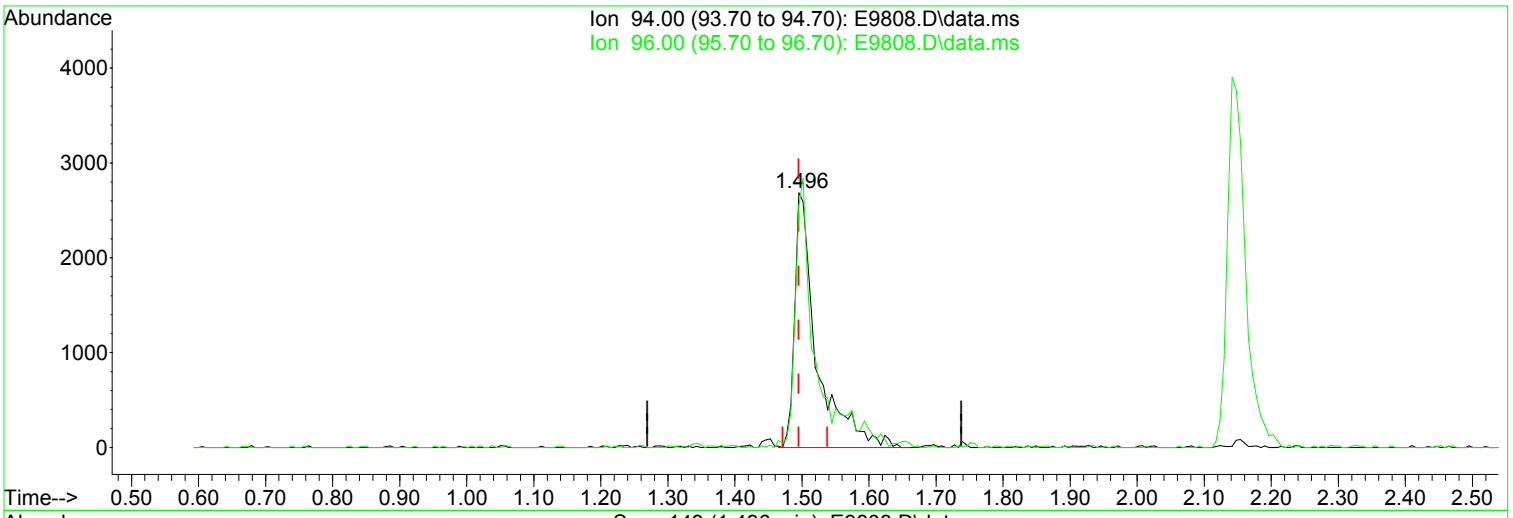
Before

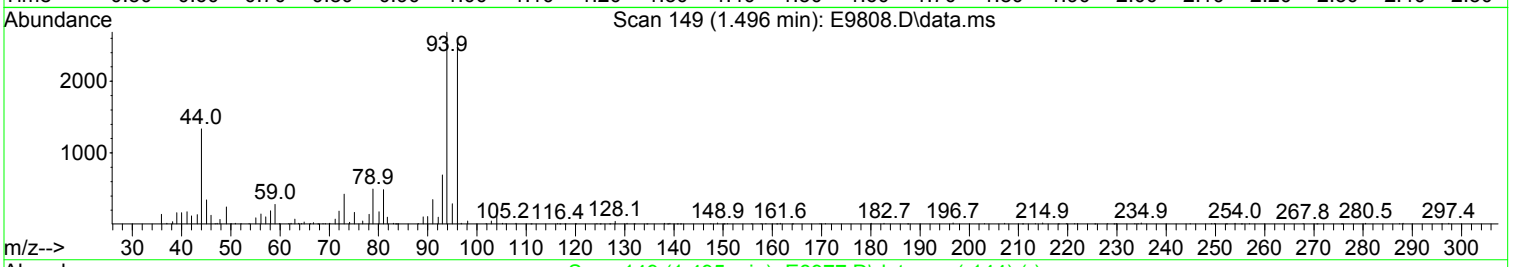
02/16/24

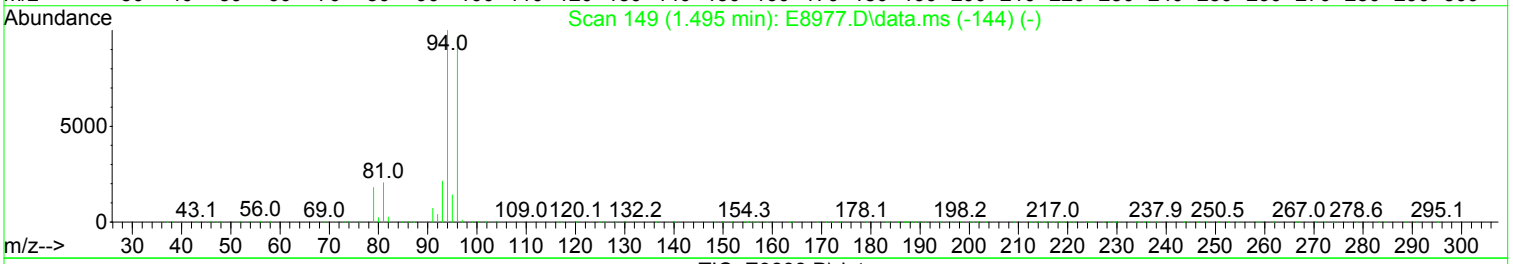
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9808.D\data.ms

(6) Bromomethane (P)

1.496min (+ 0.001) 2.23 ug/L m

response 6187

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	96.90	94.86
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

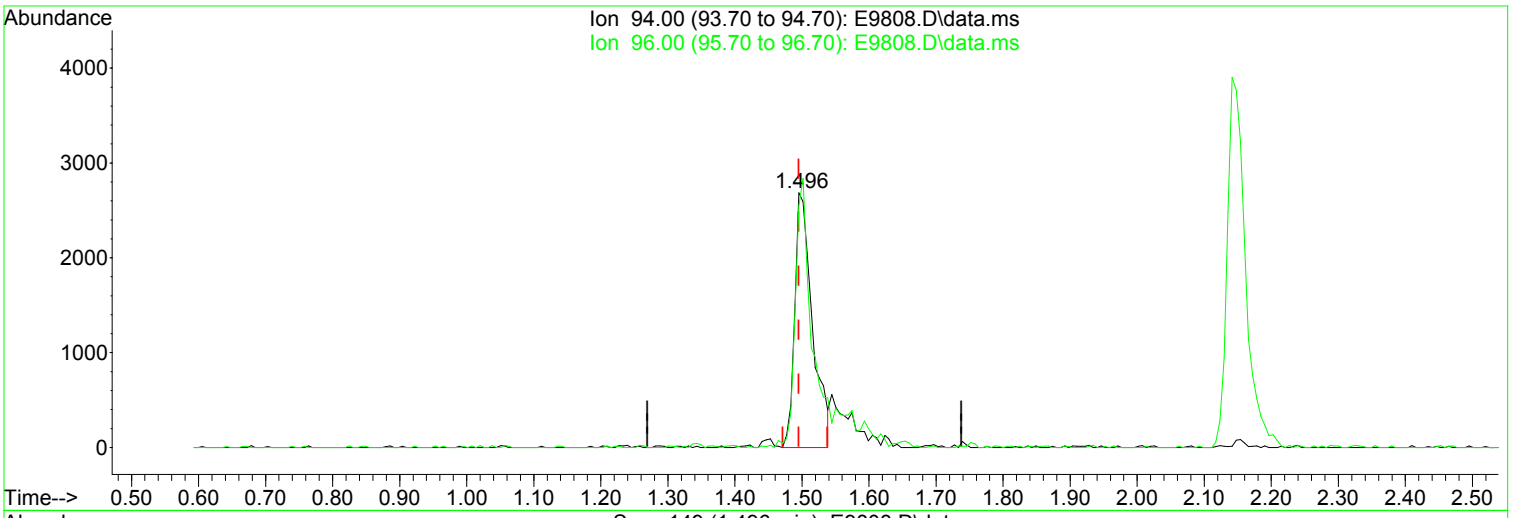
Poor integration.

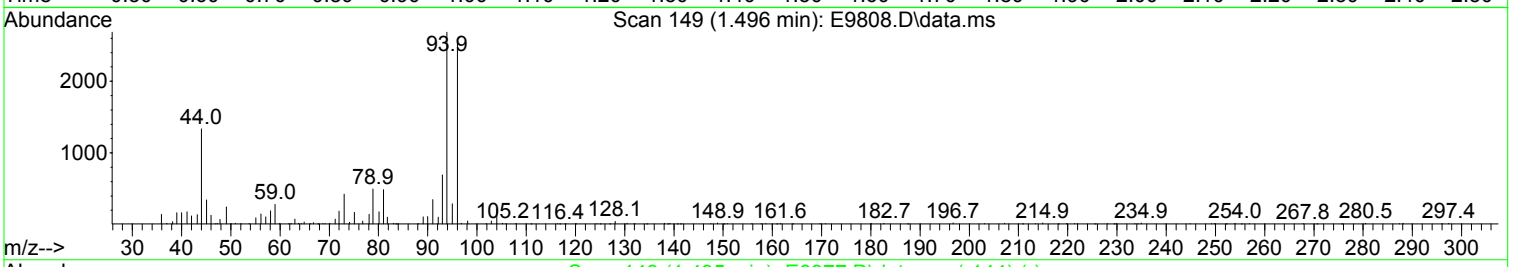
02/16/24

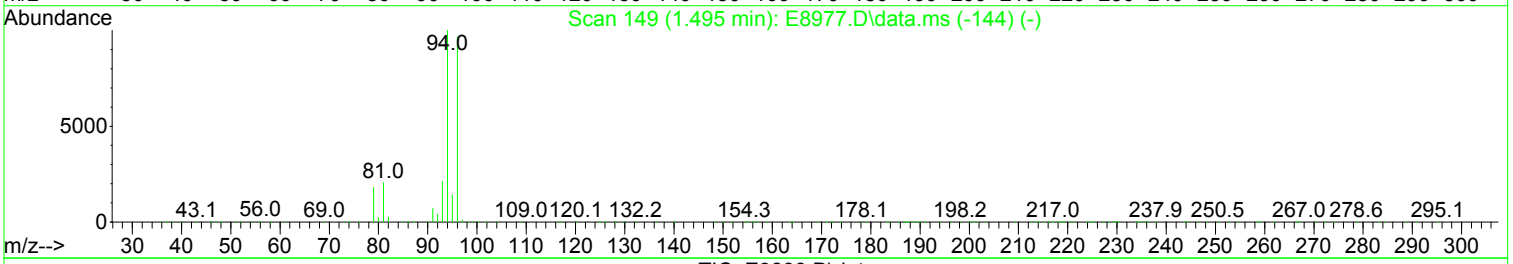
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9808.D\data.ms

(6) Bromomethane (P)

1.496min (+ 0.001) 1.77 ug/L

response 4925

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	96.90	94.86
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

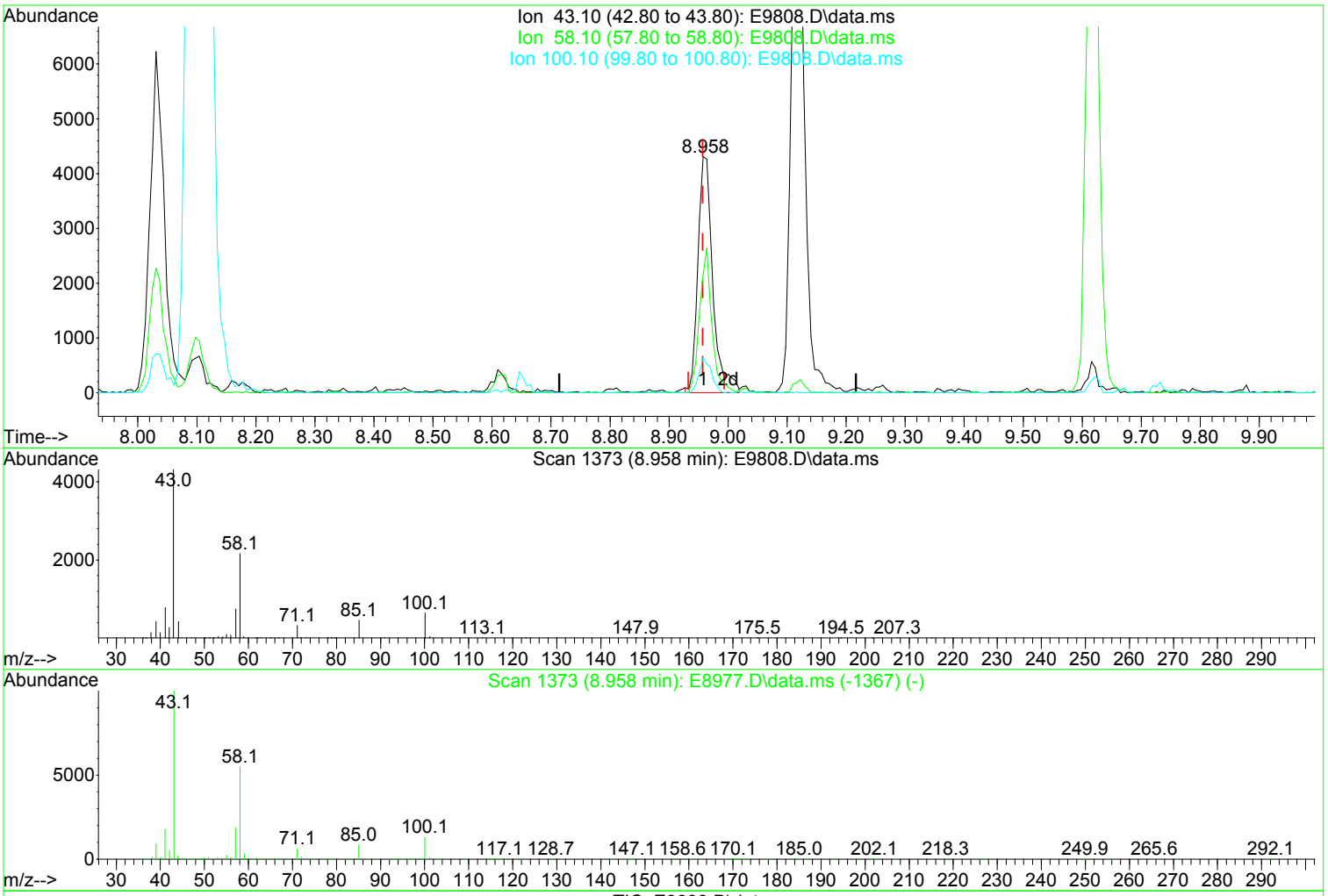
Before

02/16/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration



TIC: E9808.D\data.ms

(73) 2-Hexanone (P)

8.958min (+ 0.000) 1.95 ug/L m

response 7536

Ion	Exp%	Act%
43.10	100.00	100.00
58.10	54.60	50.17
100.10	13.00	15.02
0.00	0.00	0.00

Manual Integration:

After

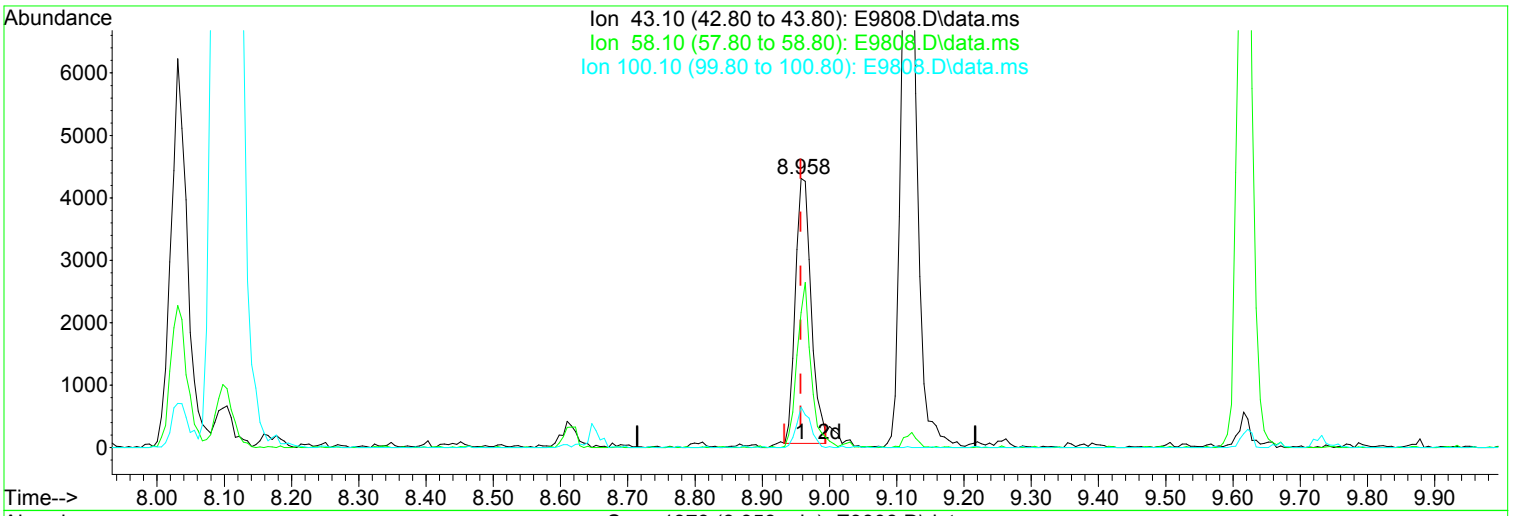
Poor integration.

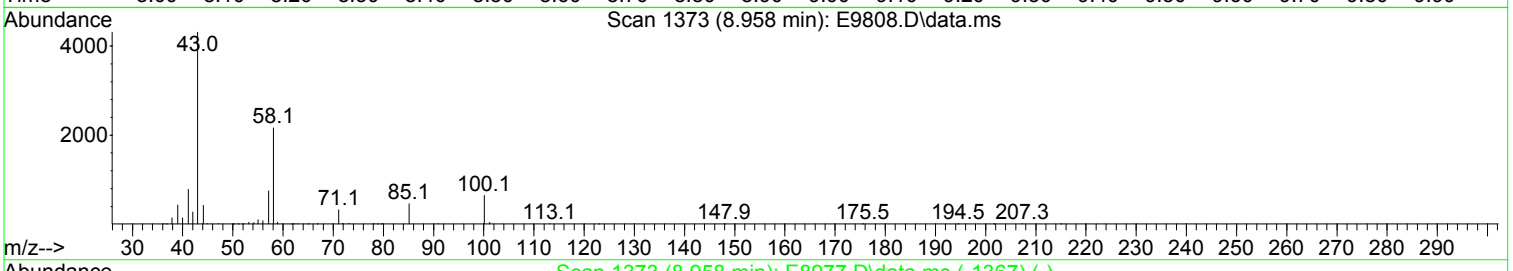
02/16/24

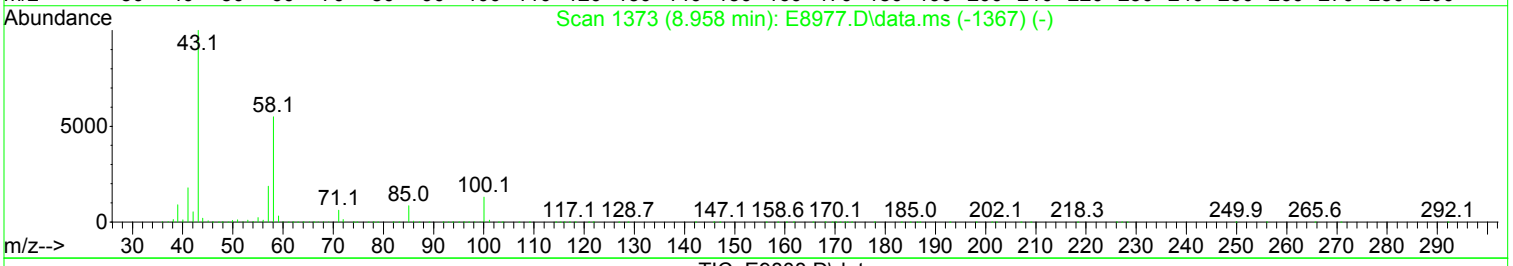
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9808.D\data.ms

(73) 2-Hexanone (P)

8.958min (+ 0.000) 1.79 ug/L

response 6948

Ion	Exp%	Act%
43.10	100.00	100.00
58.10	54.60	50.17
100.10	13.00	15.02
0.00	0.00	0.00

Manual Integration:

Before

02/16/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.086	168	463931	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.245	114	684077	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.616	117	595865	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	11.683	152	280838	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.922	113	46881	10.60	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 21.20%#				
48) surr1,1,2-dichloroetha...	5.501	65	59805	13.02	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 26.04%#				
65) SURR3,Toluene-d8	8.104	98	175485	10.80	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 21.60%#				
70) SURR2,BFB	10.707	95	64121	10.95	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 21.90%#				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.099	51	8583	1.853	ug/L		93
3) Dichlorodifluoromethane	1.093	85	11460m	2.069	ug/L		
4) Chloromethane	1.215	50	9948m	1.958	ug/L		
5) Vinyl Chloride	1.288	62	9510	1.679	ug/L		96
6) Bromomethane	1.496	94	6187m	2.226	ug/L		
7) Chloroethane	1.569	64	6707	1.853	ug/L		89
8) Freon 21	1.709	67	14809	1.997	ug/L		98
9) Trichlorofluoromethane	1.752	101	12905	1.966	ug/L		92
10) Diethyl Ether	1.971	59	9489	2.521	ug/L		97
11) Freon 123a	1.977	67	8835	1.926	ug/L		89
12) Freon 123	2.026	83	9687	1.715	ug/L		91
13) Acrolein	2.069	56	9476m	9.716	ug/L		
14) 1,1-Diclethene	2.142	96	7366	1.796	ug/L		95
15) Freon 113	2.154	101	7444	1.751	ug/L		94
16) Acetone	2.197	43	5593	2.579	ug/L		93
17) 2-Propanol	2.325	45	16418m	43.254	ug/L		
18) Iodomethane	2.270	142	9647	1.504	ug/L		99
19) Carbon Disulfide	2.325	76	19505	1.608	ug/L		92
20) Acetonitrile	2.447	41	8907m	9.587	ug/L		
21) Allyl Chloride	2.453	76	3502	1.488	ug/L	#	90
22) Methyl Acetate	2.483	43	12457	2.238	ug/L		98
23) Methylene Chloride	2.562	84	8328m	1.826	ug/L		
24) TBA	2.697	59	27906	43.626	ug/L		91
25) Acrylonitrile	2.812	53	20616	9.297	ug/L		97
26) Methyl-t-Butyl Ether	2.849	73	25810	1.976	ug/L		99
27) trans-1,2-Dichloroethene	2.837	96	7874m	1.803	ug/L		
28) 1,1-Diclethane	3.312	63	13823	1.858	ug/L		95
29) Vinyl Acetate	3.404	86	1093	1.523	ug/L	#	64
30) DIPE	3.422	45	26656m	1.890	ug/L		
31) 2-Chloro-1,3-Butadiene	3.416	53	13725m	2.029	ug/L		
32) ETBE	3.922	59	25611	1.899	ug/L		97
33) 2,2-Dichloropropane	4.087	77	12042	1.910	ug/L		91
34) cis-1,2-Dichloroethene	4.099	96	8402	1.681	ug/L		97
35) 2-Butanone	4.172	43	6125	2.035	ug/L		91
36) Propionitrile	4.245	54	8393	9.343	ug/L		96
37) Bromochloromethane	4.471	130	6114m	1.898	ug/L		
38) Methacrylonitrile	4.483	67	4155	1.803	ug/L		97
39) Tetrahydrofuran	4.599	42	3981	2.234	ug/L		87
40) Chloroform	4.641	83	14581m	1.929	ug/L		

1st 02/16/24
2nd 02/16/24

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 1,1,1-Trichloroethane	4.922	97	13190m	1.973	ug/L		
42) TAME	5.842	73	23010	1.769	ug/L		87
44) Cyclohexane	4.995	41	8262	2.073	ug/L		98
46) Carbontetrachloride	5.208	117	10964	1.817	ug/L		88
47) 1,1-Dichloropropene	5.233	75	11138	2.078	ug/L		90
49) Benzene	5.574	78	29336	1.891	ug/L		92
50) 1,2-Dichloroethane	5.623	62	12975	2.385	ug/L		95
51) Iso-Butyl Alcohol	5.647	43	8123	45.750	ug/L		87
52) n-Heptane	6.098	43	11815	1.908	ug/L		91
53) 1-Butanol	6.653	56	10740m	105.694	ug/L		
54) Trichloroethene	6.574	130	9314	1.986	ug/L		90
55) Methylcyclohexane	6.818	55	12317m	2.186	ug/L		
56) 1,2-Diclpropane	6.867	63	8237	1.920	ug/L		96
57) Dibromomethane	7.013	93	5475	1.881	ug/L		94
58) 1,4-Dioxane	7.104	88	2809	41.772	ug/L		97
59) Methyl Methacrylate	7.116	69	6160	1.752	ug/L	#	76
60) Bromodichloromethane	7.257	83	10182	1.786	ug/L		98
61) 2-Nitropropane	7.555	41	6255	4.198	ug/L		90
62) 2-Chloroethylvinyl Ether	7.683	63	2375	0.860	ug/L		97
63) cis-1,3-Dichloropropene	7.811	75	11625	1.710	ug/L		94
64) 4-Methyl-2-pentanone	8.031	43	10524	2.023	ug/L		93
66) Toluene	8.177	91	33160	1.933	ug/L		96
67) trans-1,3-Dichloropropene	8.464	75	11962	1.862	ug/L		97
68) Ethyl Methacrylate	8.610	69	11009	1.764	ug/L		85
69) 1,1,2-Trichloroethane	8.653	97	7719	1.850	ug/L		97
72) Tetrachloroethene	8.775	164	7346	2.088	ug/L		97
73) 2-Hexanone	8.958	43	7536m	1.946	ug/L		
74) 1,3-Dichloropropane	8.823	76	13350	2.046	ug/L		91
75) Dibromochloromethane	9.049	129	8764	1.715	ug/L		89
76) N-Butyl Acetate	9.116	43	16507	2.059	ug/L		94
77) 1,2-Dibromoethane	9.140	107	8799	2.057	ug/L		95
78) 3-Chlorobenzotrifluoride	9.677	180	13249	2.088	ug/L		96
79) Chlorobenzene	9.646	112	23411	2.029	ug/L		94
80) 4-Chlorobenzotrifluoride	9.732	180	11776	2.081	ug/L		92
81) 1,1,1,2-Tetrachloroethane	9.738	131	8441	1.805	ug/L		98
82) Ethylbenzene	9.768	106	11976	1.952	ug/L		91
83) (m+p)Xylene	9.884	106	29046	3.968	ug/L		96
84) o-Xylene	10.244	106	14512	2.027	ug/L		99
85) Styrene	10.256	104	22950	1.849	ug/L		92
86) Bromoform	10.409	173	5316	1.594	ug/L		97
87) 2-Chlorobenzotrifluoride	10.500	180	12525	2.085	ug/L		91
88) Isopropylbenzene	10.579	105	37161	1.983	ug/L		99
89) Cyclohexanone	10.652	55	45211	45.255	ug/L		98
90) trans-1,4-Dichloro-2-B...	10.902	53	3503	1.924	ug/L		81
92) 1,1,2,2-Tetrachloroethane	10.854	83	10950	1.914	ug/L		91
93) Bromobenzene	10.823	156	10437	2.183	ug/L		96
94) 1,2,3-Trichloropropane	10.878	110	3996	2.090	ug/L	#	79
95) n-Propylbenzene	10.939	91	42559	2.072	ug/L		98
96) 2-Chlorotoluene	11.000	91	26321	2.150	ug/L		96
97) 3-Chlorotoluene	11.055	91	27146	2.105	ug/L		98
98) 4-Chlorotoluene	11.097	91	31489	2.177	ug/L		94
99) 1,3,5-Trimethylbenzene	11.097	105	30571	2.013	ug/L		98
100) tert-Butylbenzene	11.366	119	27430	2.028	ug/L		99
101) 1,2,4-Trimethylbenzene	11.408	105	30257	1.987	ug/L		99
102) 3,4-Dichlorobenzotrifl...	11.475	214	9385	2.114	ug/L		96
103) sec-Butylbenzene	11.549	105	38868	2.020	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration

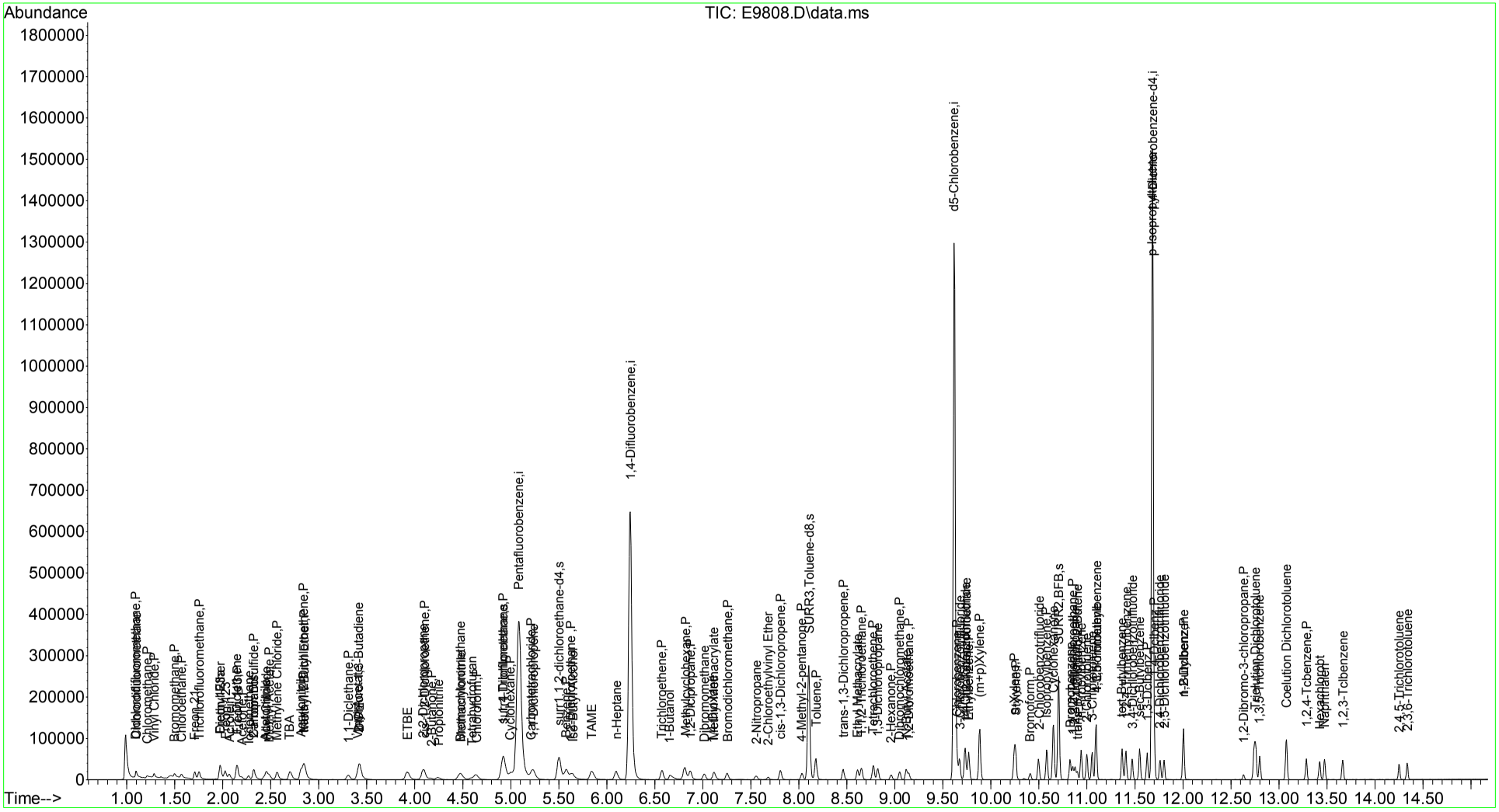
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
104) p-Isopropyltoluene	11.677	119	32810	1.977	ug/L		95
105) 1,3-Dclbenz	11.628	146	18868	2.094	ug/L		99
106) 1,4-Dclbenz	11.701	146	19222	2.130	ug/L		90
107) 2,4-Dichlorobenzotrifl...	11.762	214	8329	2.136	ug/L		96
108) 2,5-Dichlorobenzotrifl...	11.805	214	9701	2.232	ug/L		97
109) n-Butylbenzene	12.006	91	27325	1.875	ug/L		96
110) 1,2-Dclbenz	12.006	146	18531	2.128	ug/L		95
111) 1,2-Dibromo-3-chloropr...	12.634	157	2296	1.572	ug/L	#	74
112) Trielution Dichlorotol...	12.750	125	46703	5.815	ug/L		96
113) 1,3,5-Trichlorobenzene	12.798	180	12408	1.966	ug/L		90
114) Coelution Dichlorotoluene	13.079	125	33039	3.949	ug/L		98
115) 1,2,4-Tcbenzene	13.286	180	10883	1.887	ug/L		90
116) Hexachlorobt	13.426	225	5946	2.109	ug/L		91
117) Naphthalen	13.475	128	28234	1.712	ug/L		99
118) 1,2,3-Tclbenzene	13.664	180	10398	1.927	ug/L		91
119) 2,4,5-Trichlorotoluene	14.249	159	7498	1.796	ug/L		91
120) 2,3,6-Trichlorotoluene	14.335	159	7184	1.706	ug/L		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9808.D
Acq On : 15 Feb 2024 01:33 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 13:51:34 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration

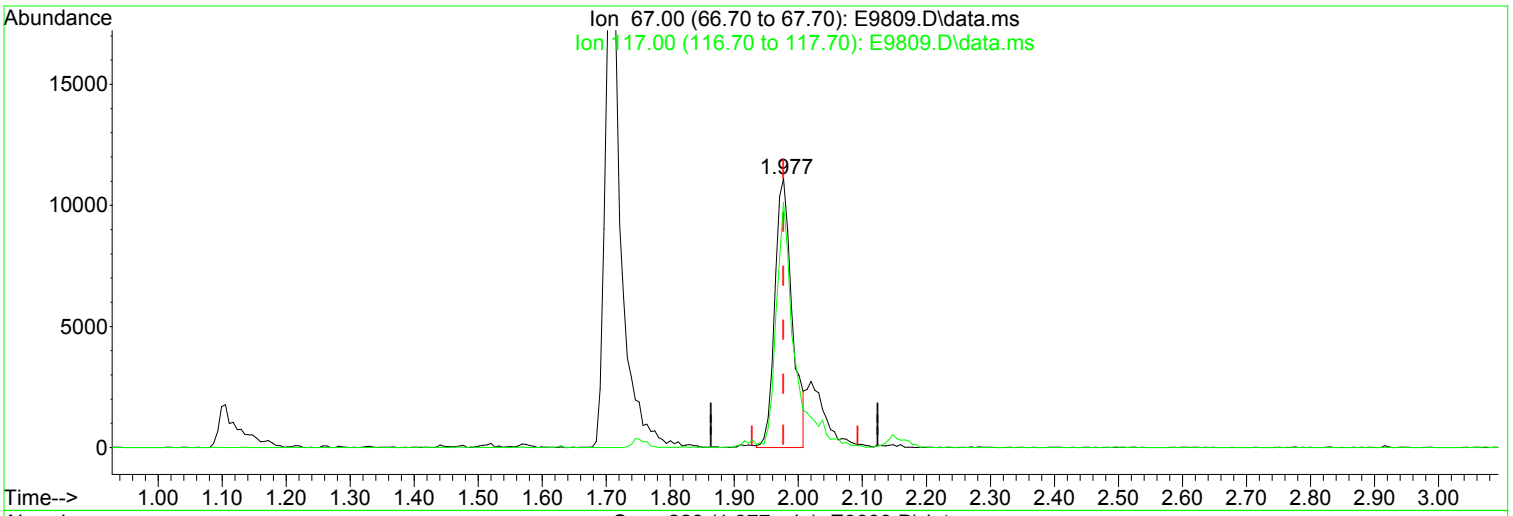


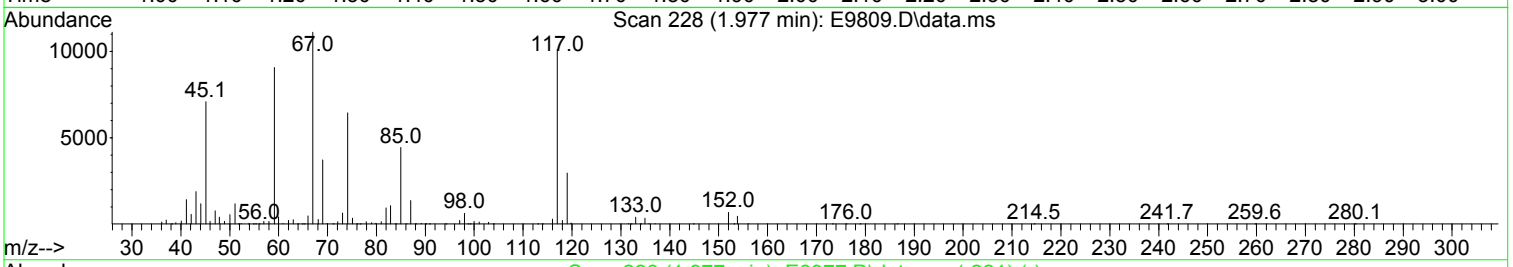
1st 02/16/24
2nd 02/16/24

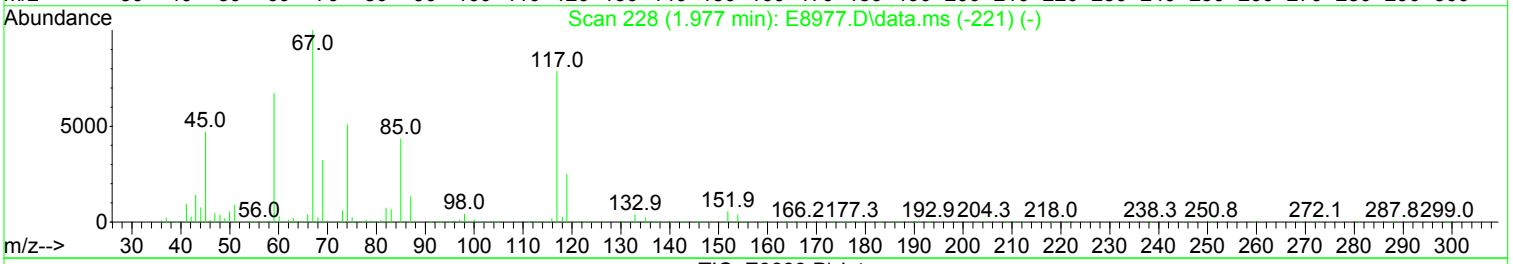
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9809.D
Acq On : 15 Feb 2024 01:56 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 14:14:48 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9809.D\data.ms

(11) Freon 123a

1.977min (-0.000) 4.59 ug/L m

response 20898

Ion	Exp%	Act%
67.00	100.00	100.00
117.00	79.20	91.13
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

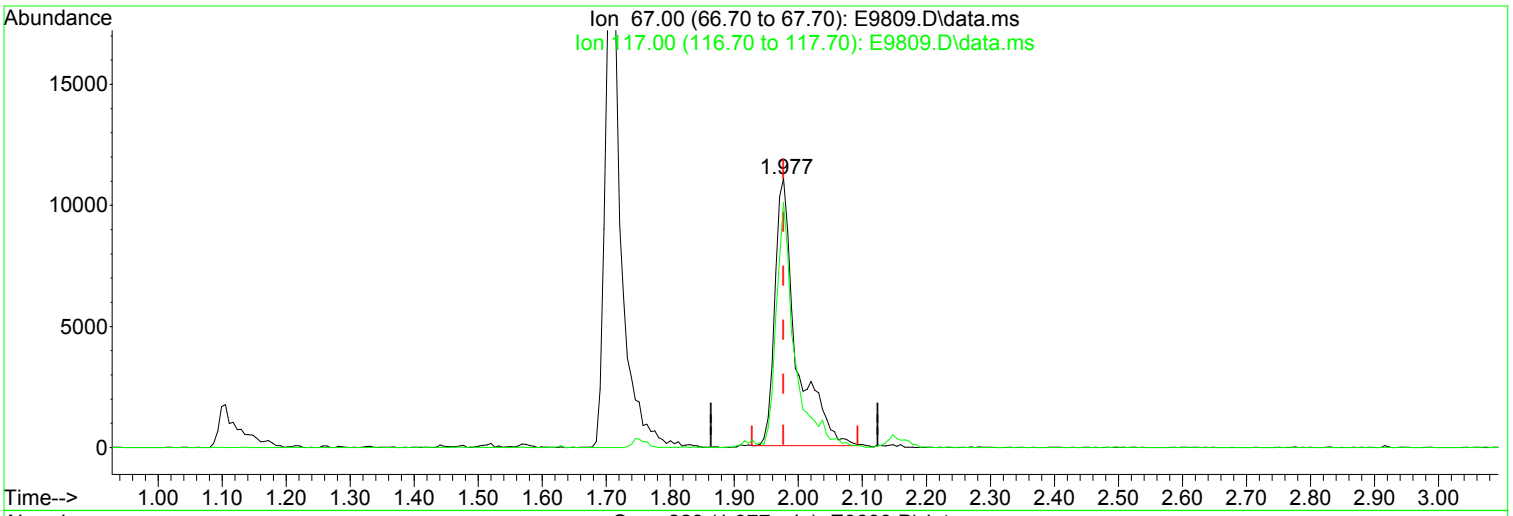
Poor integration.

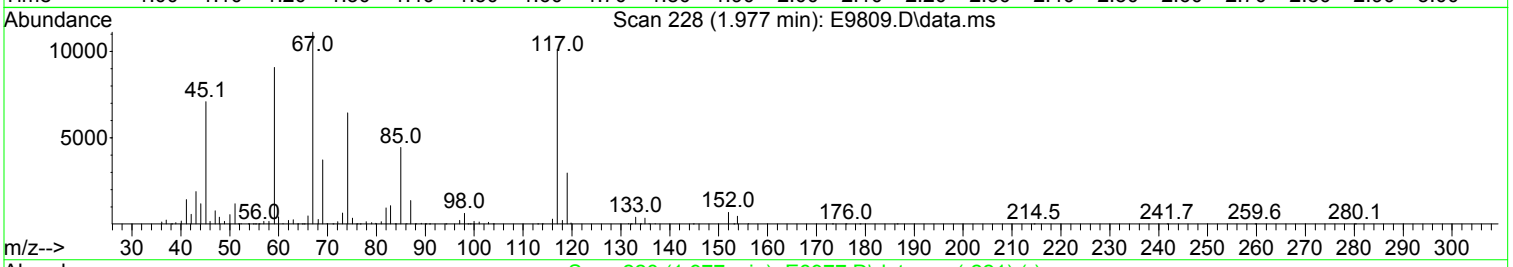
02/16/24

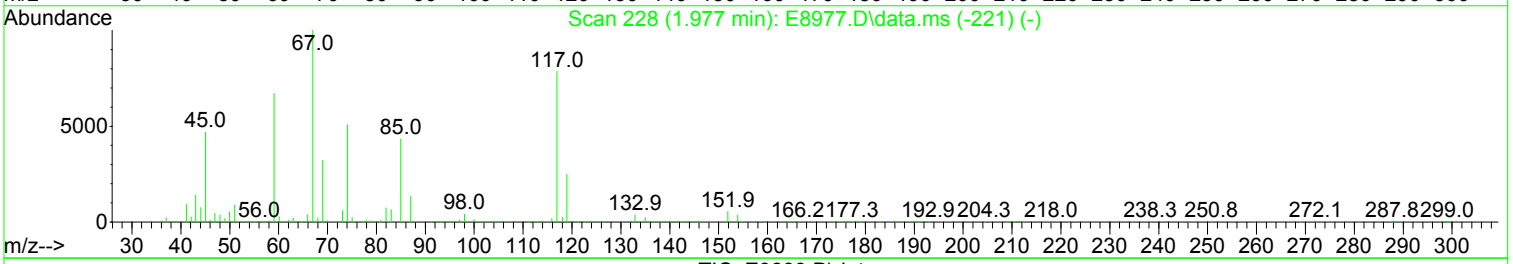
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9809.D
Acq On : 15 Feb 2024 01:56 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 14:14:48 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9809.D\data.ms

(11) Freon 123a

1.977min (-0.000) 5.67 ug/L

response 25823

Ion	Exp%	Act%
67.00	100.00	100.00
117.00	79.20	91.13
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

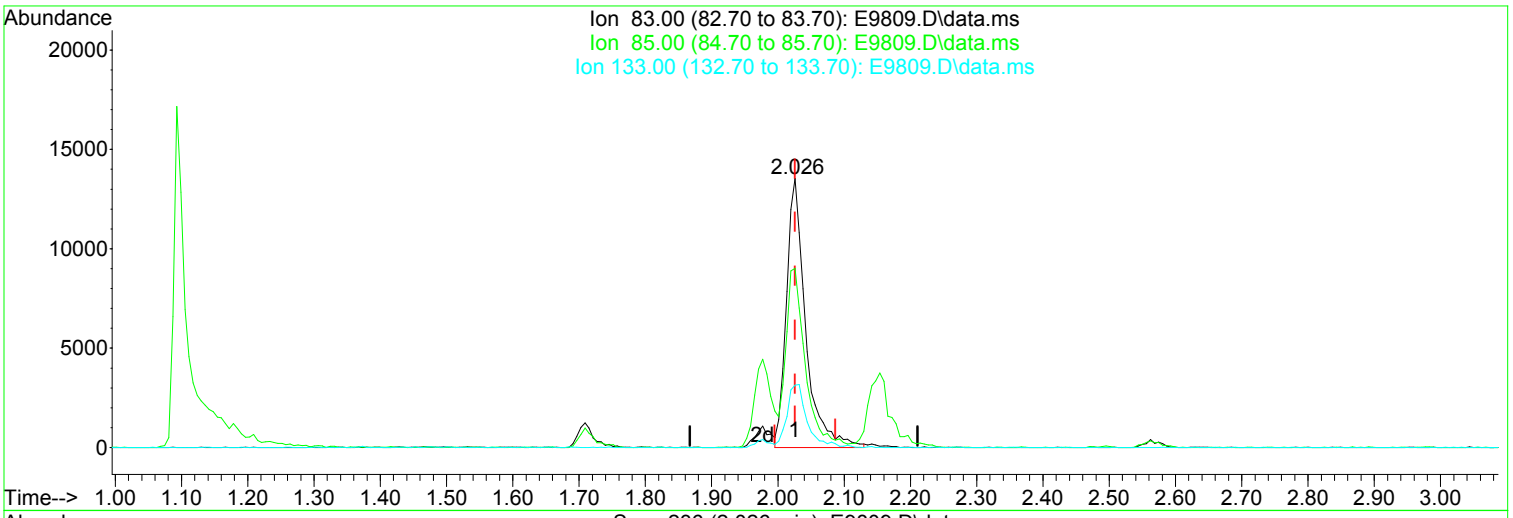
Before

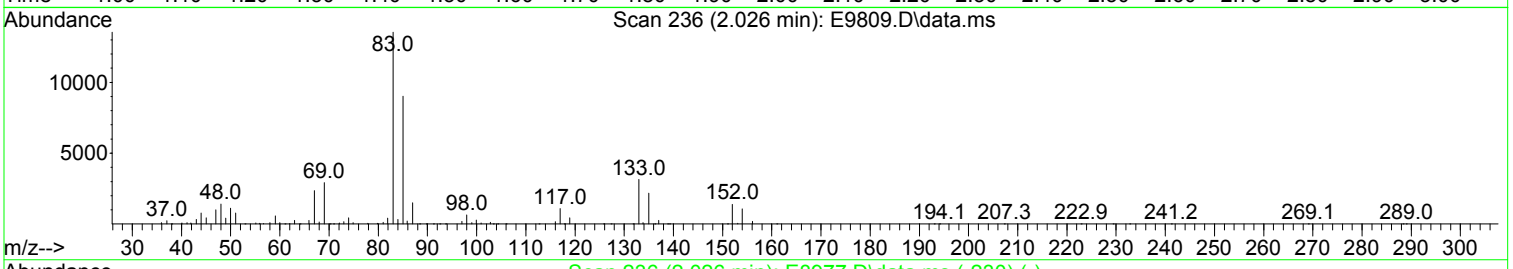
02/16/24

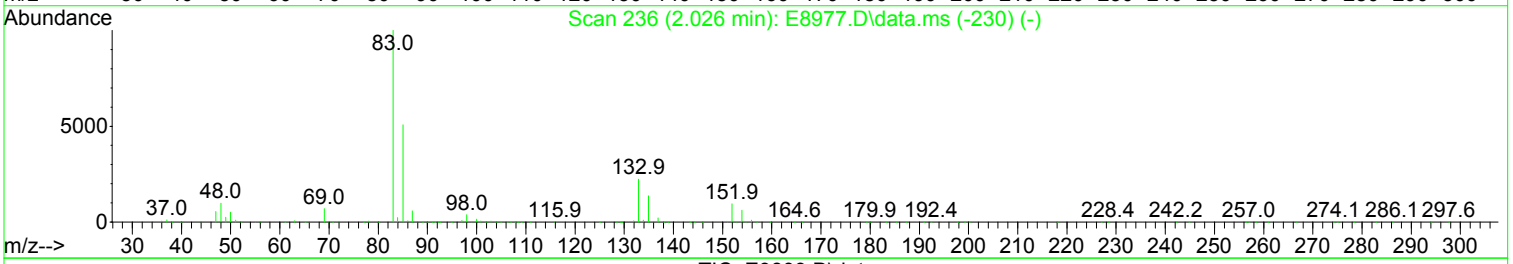
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9809.D
Acq On : 15 Feb 2024 01:56 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 14:14:48 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9809.D\data.ms

(12) Freon 123

2.026min (-0.000) 4.85 ug/L m

response 27211

Ion	Exp%	Act%
83.00	100.00	100.00
85.00	68.00	66.67
133.00	23.30	23.19
0.00	0.00	0.00

Manual Integration:

After

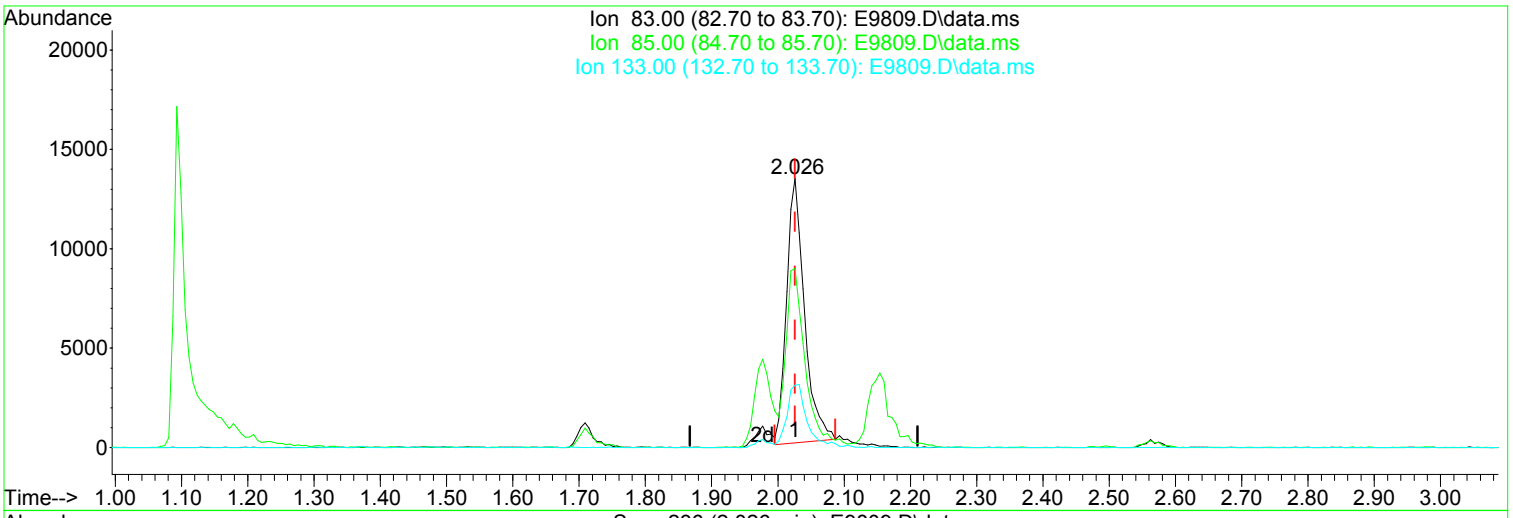
Poor integration.

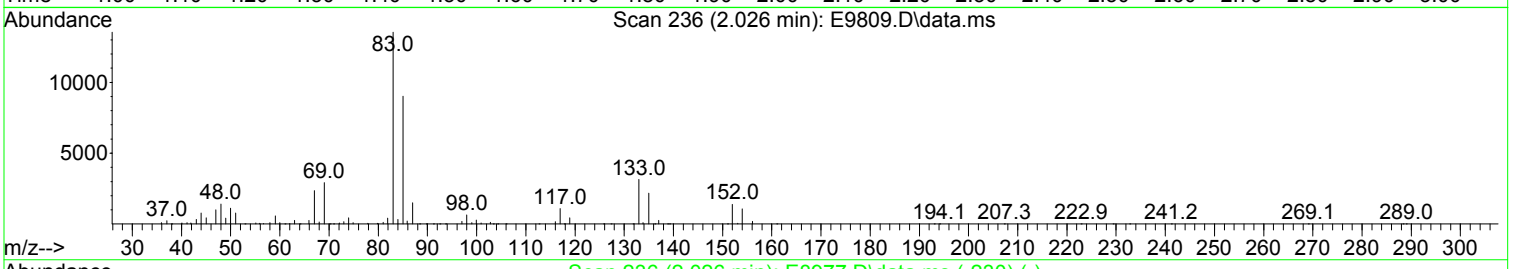
02/16/24

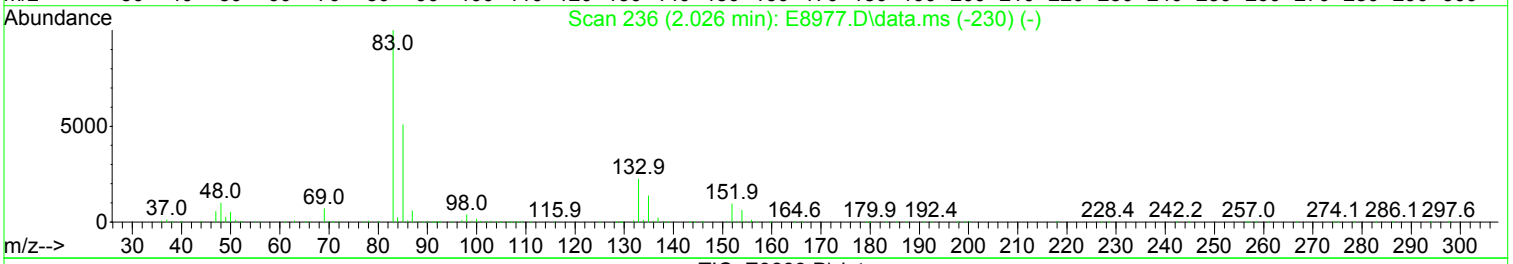
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9809.D
Acq On : 15 Feb 2024 01:56 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 14:14:48 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9809.D\data.ms

(12) Freon 123

2.026min (-0.000) 4.43 ug/L

response 24845

Ion	Exp%	Act%
83.00	100.00	100.00
85.00	68.00	66.67
133.00	23.30	23.19
0.00	0.00	0.00

Manual Integration:

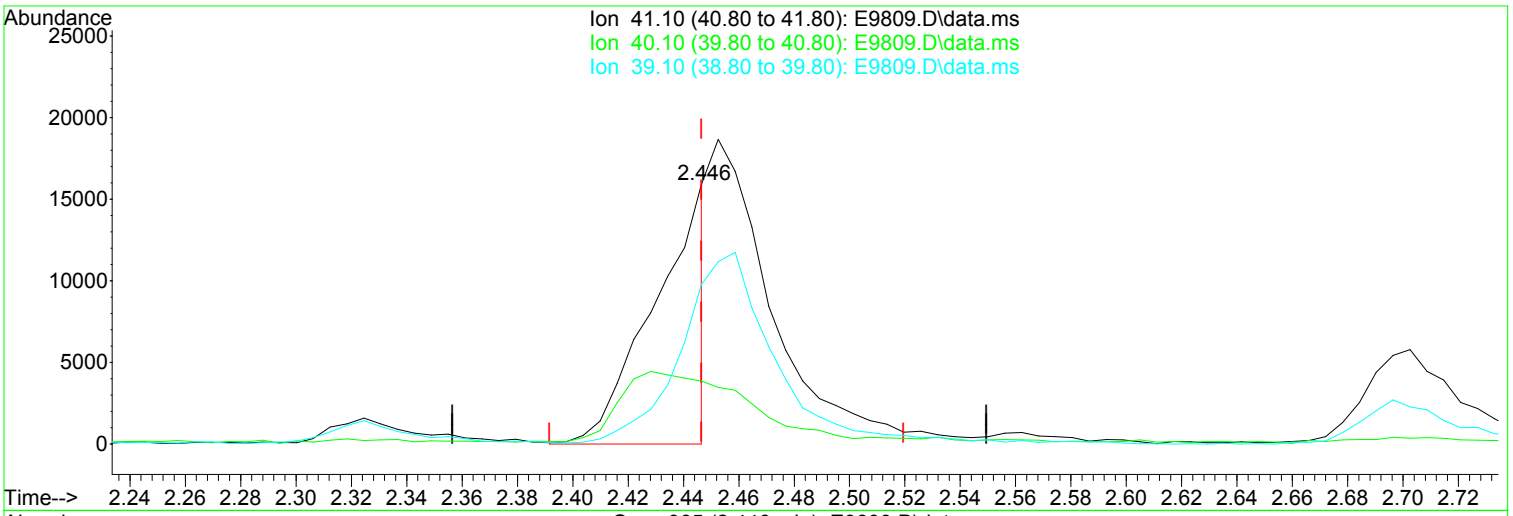
Before

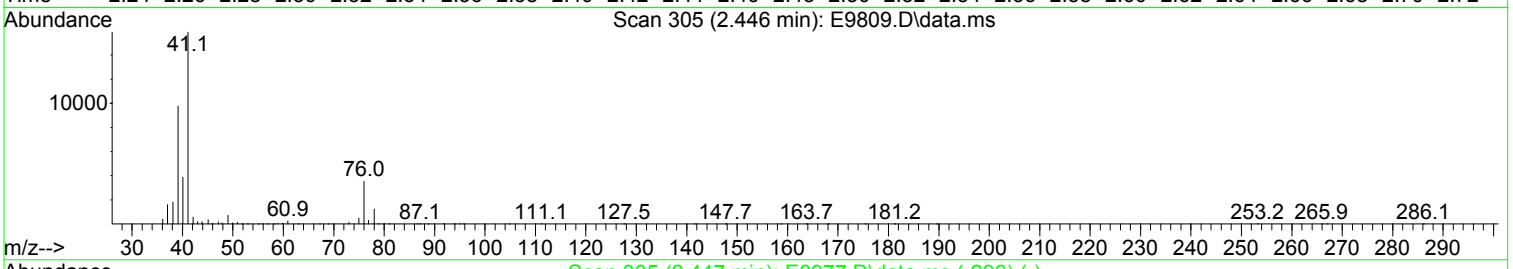
02/16/24

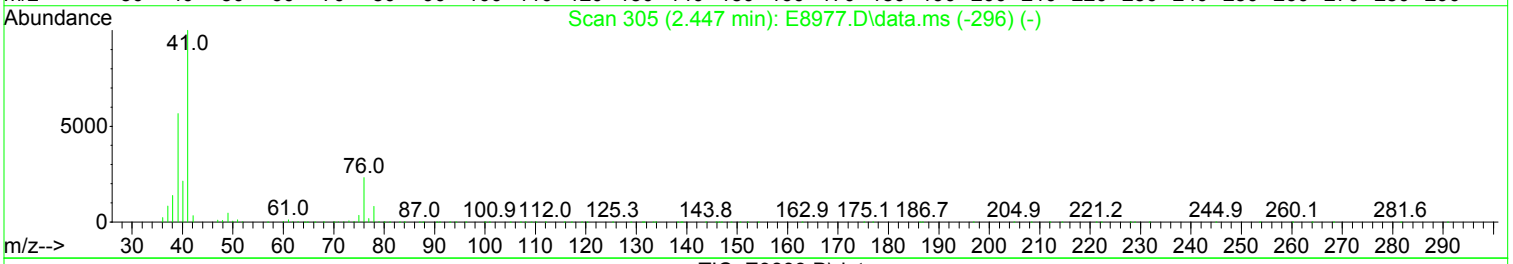
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9809.D
Acq On : 15 Feb 2024 01:56 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 14:14:48 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9809.D\data.ms

(20) Acetonitrile

2.446min (-0.000) 23.17 ug/L m

response 21366

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	21.50	24.35
39.10	57.00	61.41
0.00	0.00	0.00

Manual Integration:

After

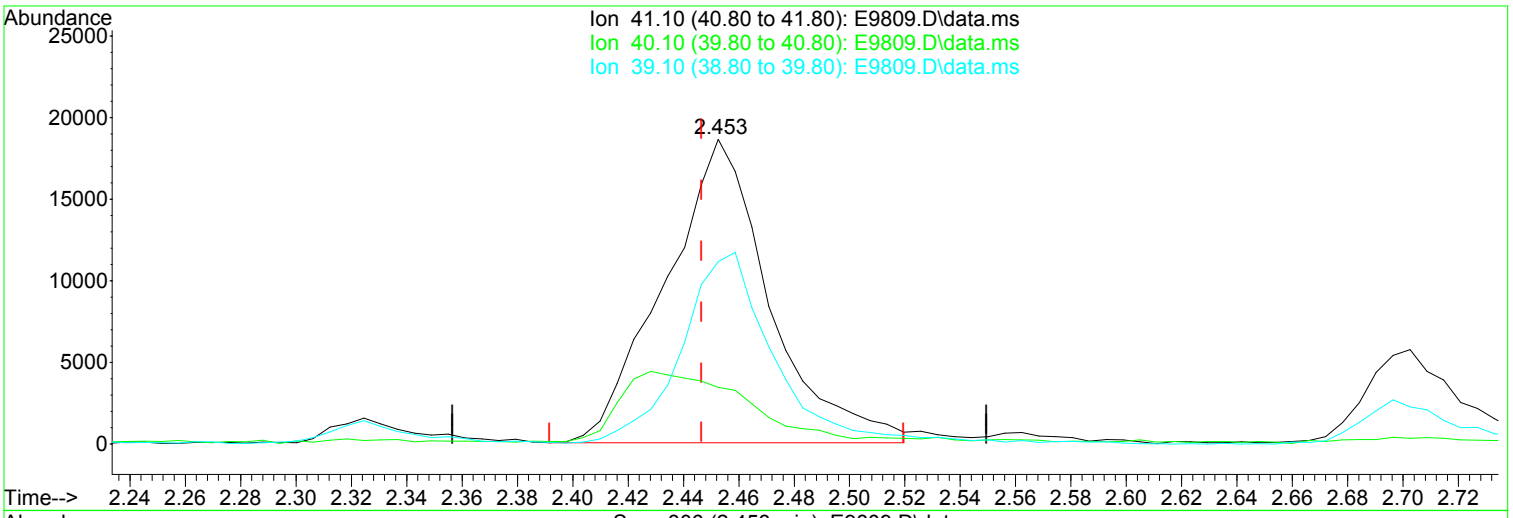
Poor integration.

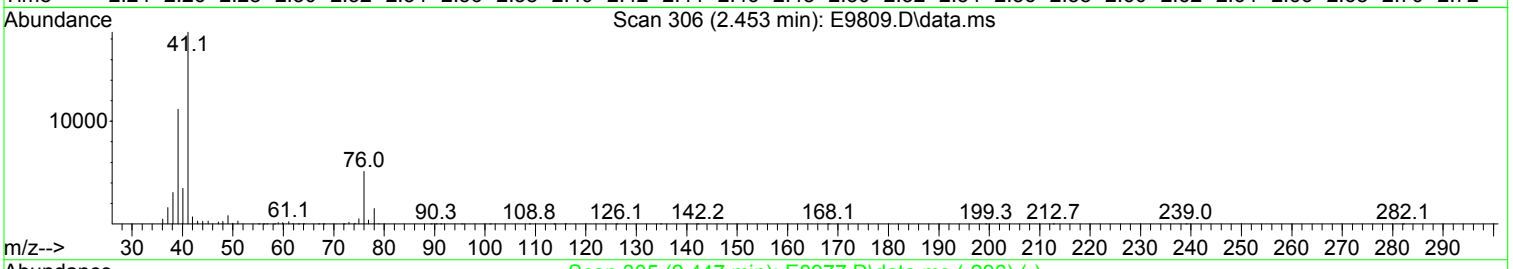
02/16/24

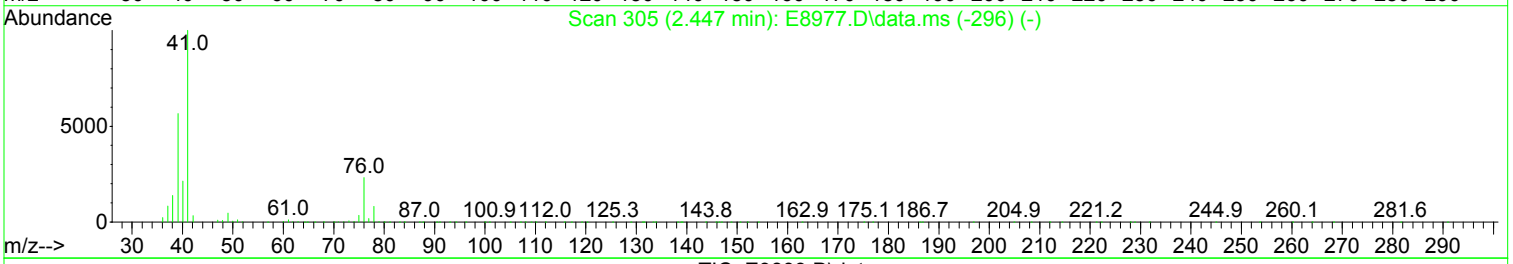
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9809.D
Acq On : 15 Feb 2024 01:56 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 14:14:48 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9809.D\data.ms

(20) Acetonitrile

2.453min (+ 0.006) 53.10 ug/L

response 48954

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	21.50	18.61
39.10	57.00	59.82
0.00	0.00	0.00

Manual Integration:

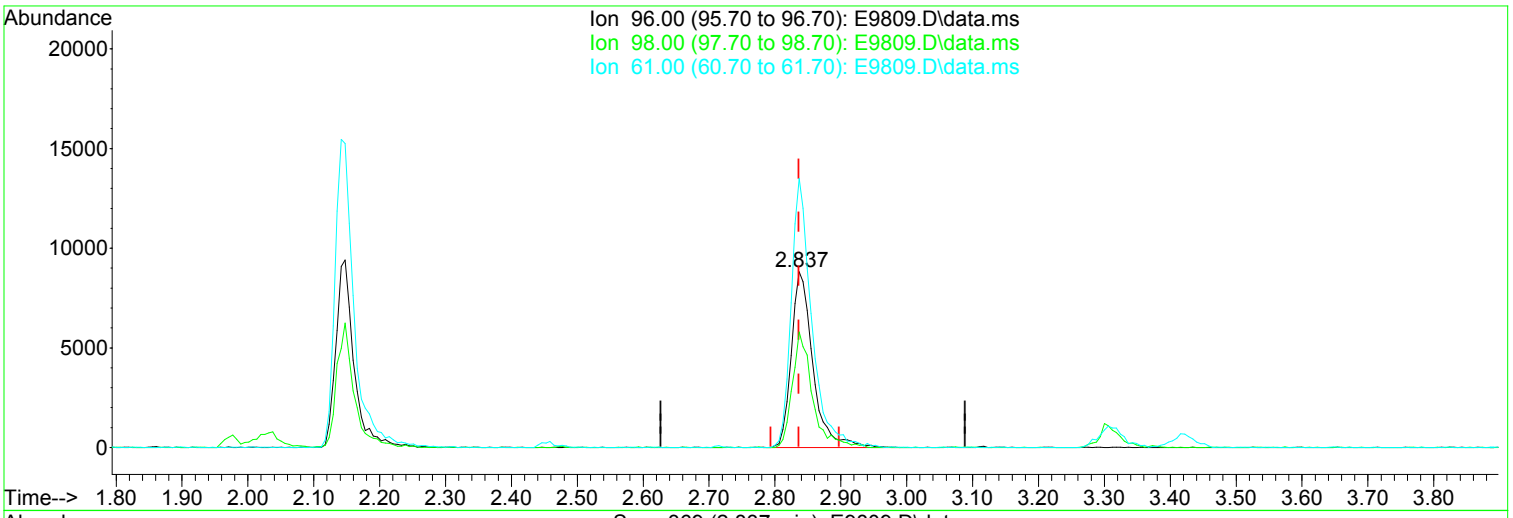
Before

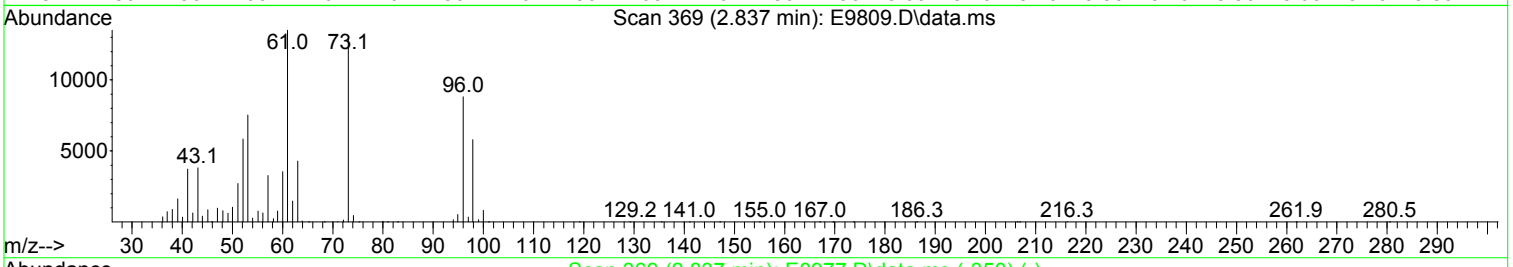
02/16/24

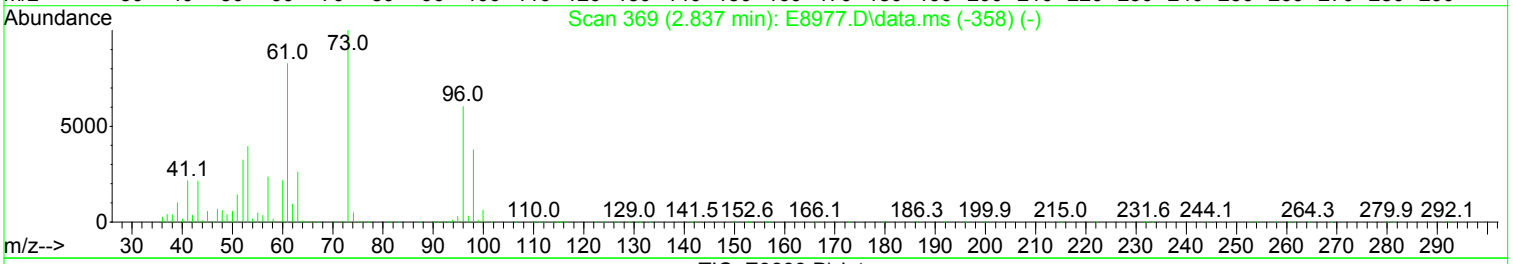
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9809.D
Acq On : 15 Feb 2024 01:56 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 14:14:48 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9809.D\data.ms

(27) trans-1,2-Dichloroethene (P)

2.837min (-0.000) 4.65 ug/L m

response 20140

Ion	Exp%	Act%
96.00	100.00	100.00
98.00	62.60	65.82
61.00	136.90	153.11
0.00	0.00	0.00

Manual Integration:

After

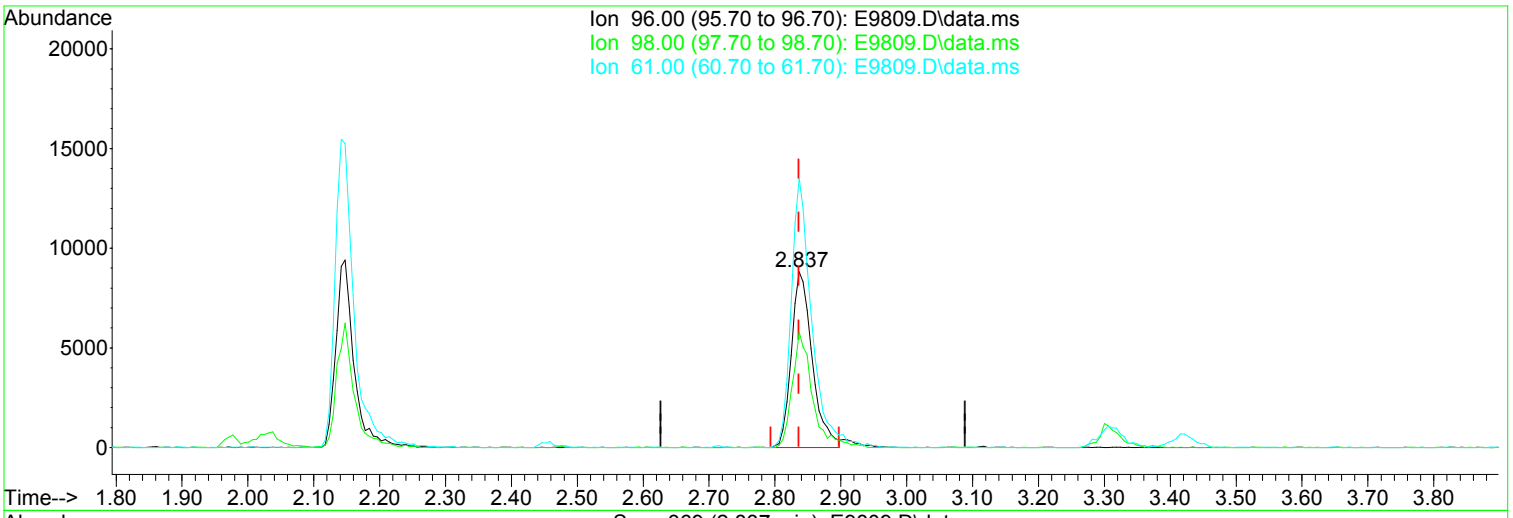
Poor integration.

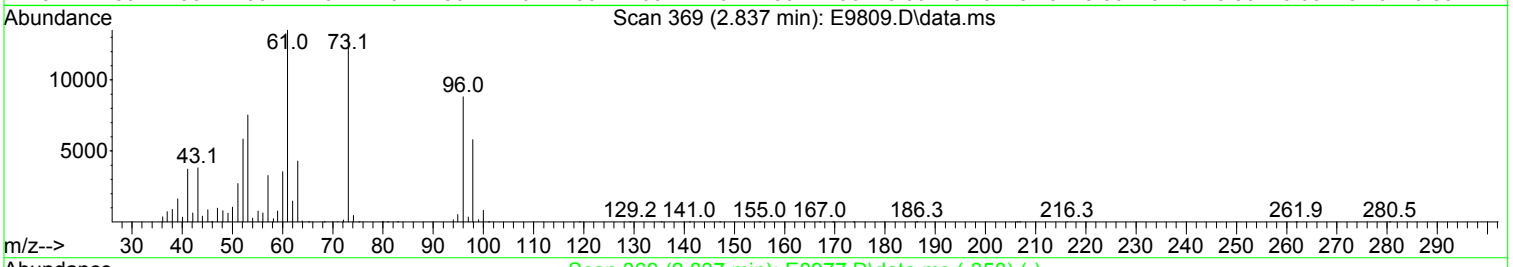
02/16/24

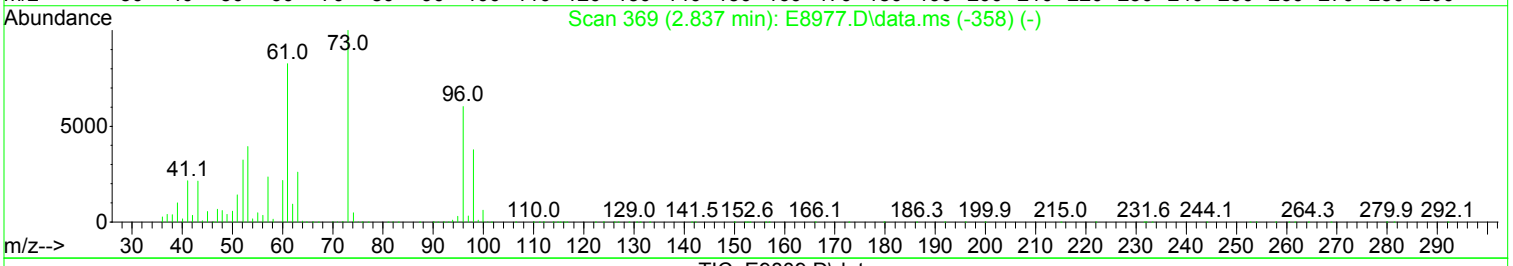
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9809.D
Acq On : 15 Feb 2024 01:56 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 14:14:48 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9809.D\data.ms

(27) trans-1,2-Dichloroethene (P)

2.837min (-0.000) 4.48 ug/L

response 19419

Ion	Exp%	Act%
96.00	100.00	100.00
98.00	62.60	65.82
61.00	136.90	153.11
0.00	0.00	0.00

Manual Integration:

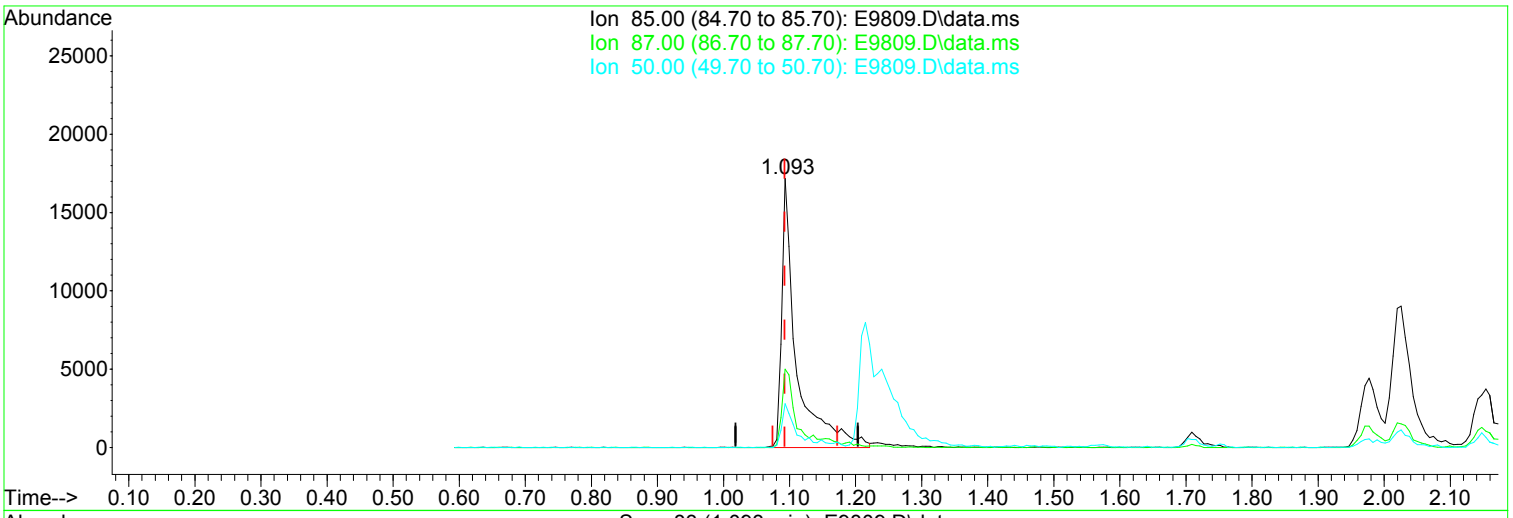
Before

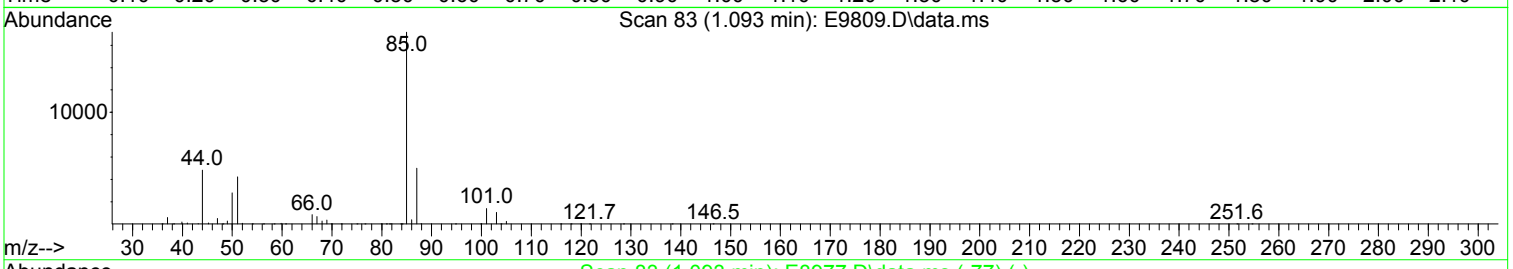
02/16/24

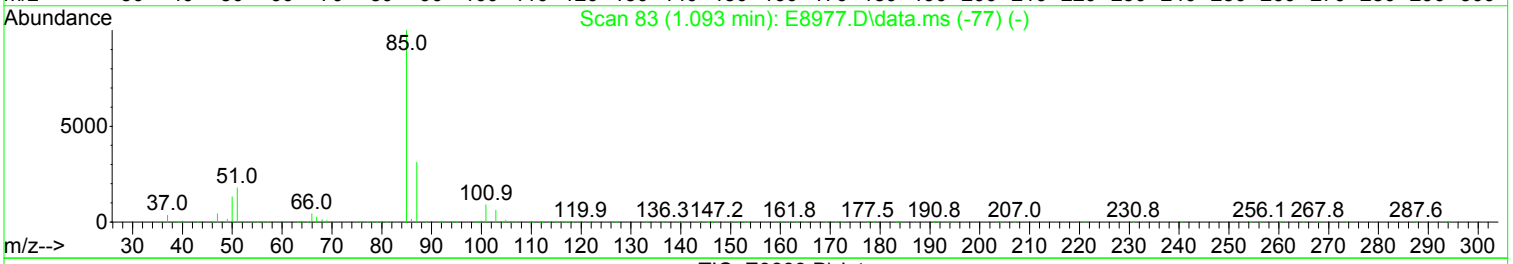
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9809.D
Acq On : 15 Feb 2024 01:56 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 14:14:48 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9809.D\data.ms

(3) Dichlorodifluoromethane (P)

1.093min (-0.000) 4.87 ug/L m

response 26756

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.10	29.12
50.00	13.20	16.30
0.00	0.00	0.00

Manual Integration:

After

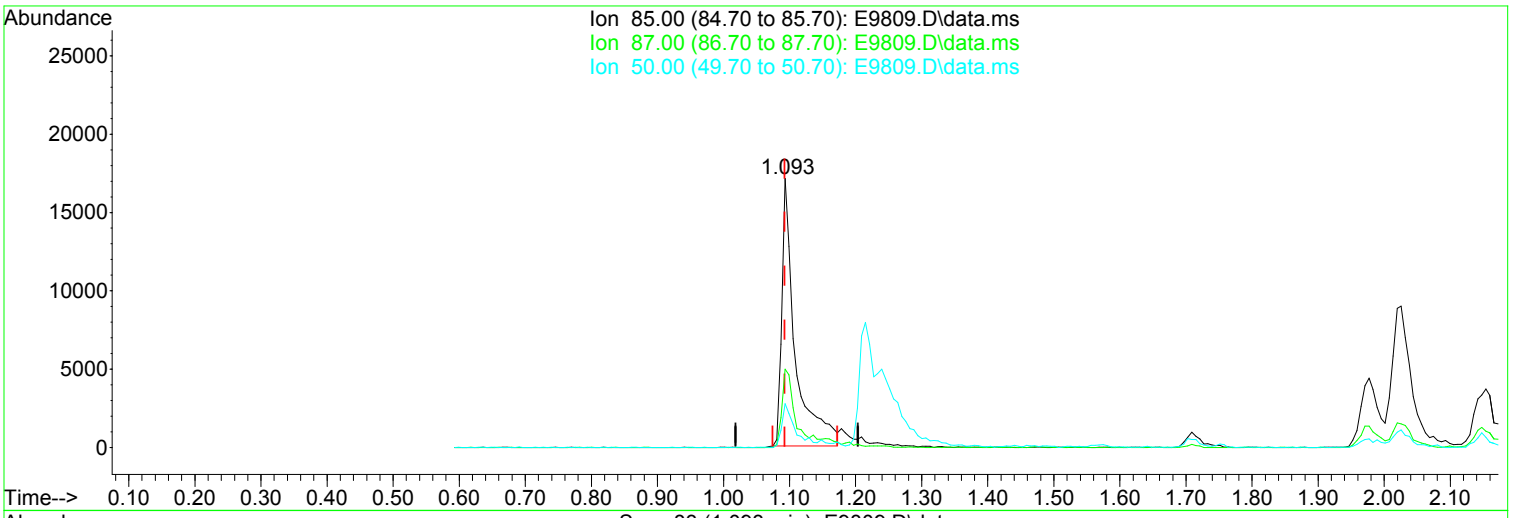
Poor integration.

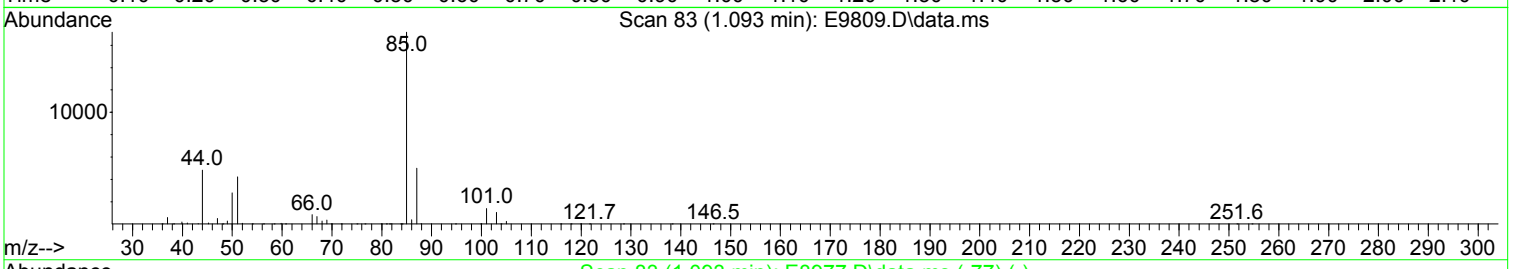
02/16/24

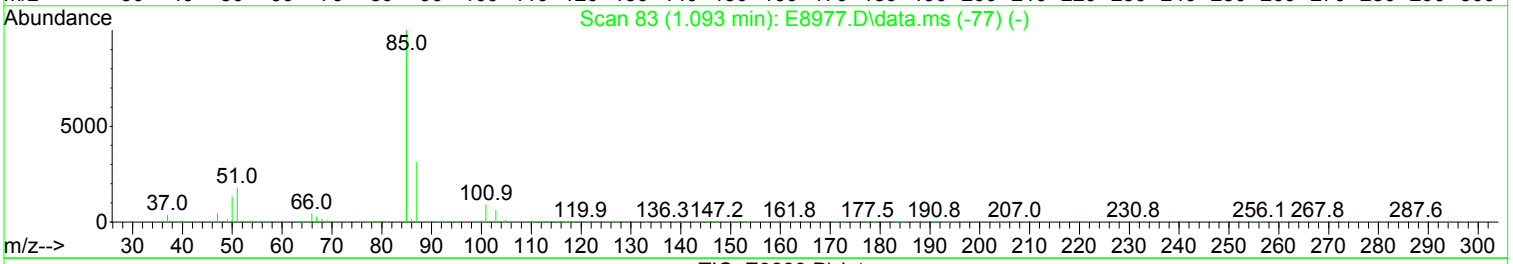
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9809.D
Acq On : 15 Feb 2024 01:56 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 14:14:48 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9809.D\data.ms

(3) Dichlorodifluoromethane (P)

1.093min (-0.000) 4.41 ug/L

response 24253

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.10	29.12
50.00	13.20	16.30
0.00	0.00	0.00

Manual Integration:

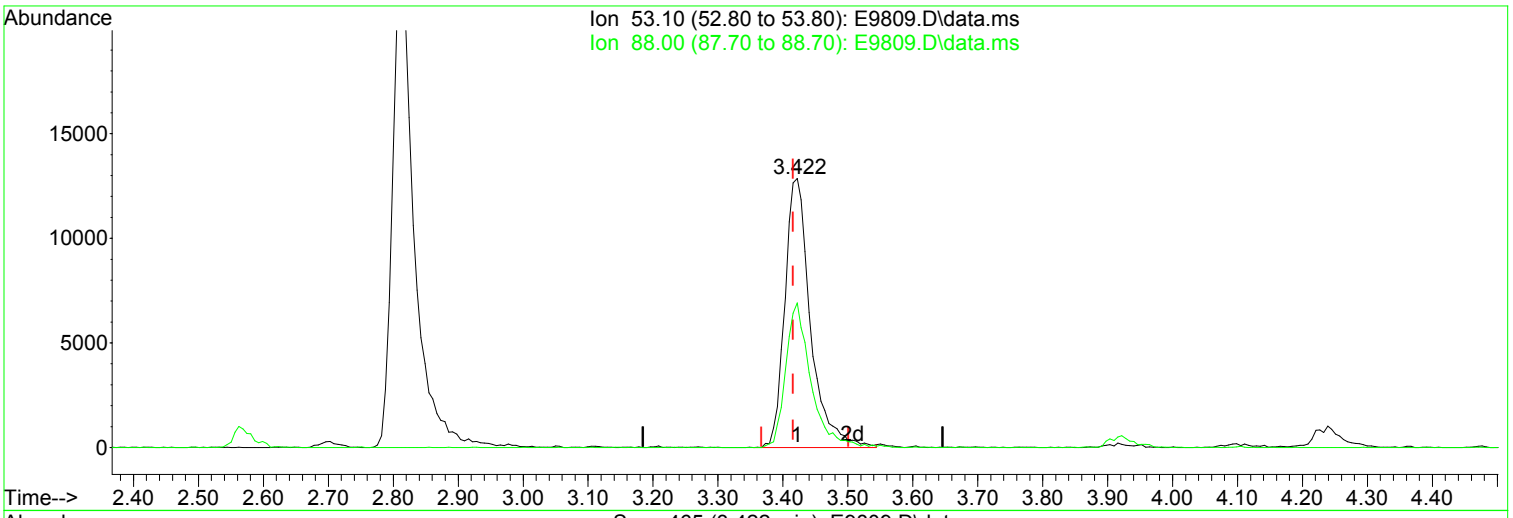
Before

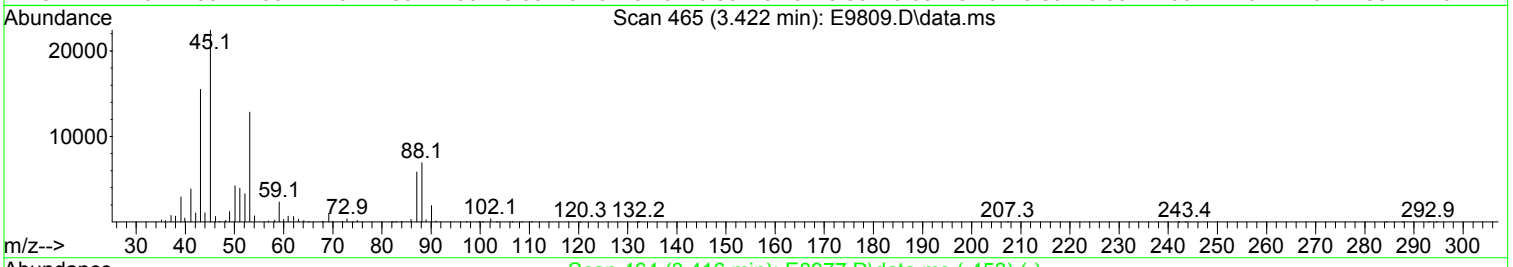
02/16/24

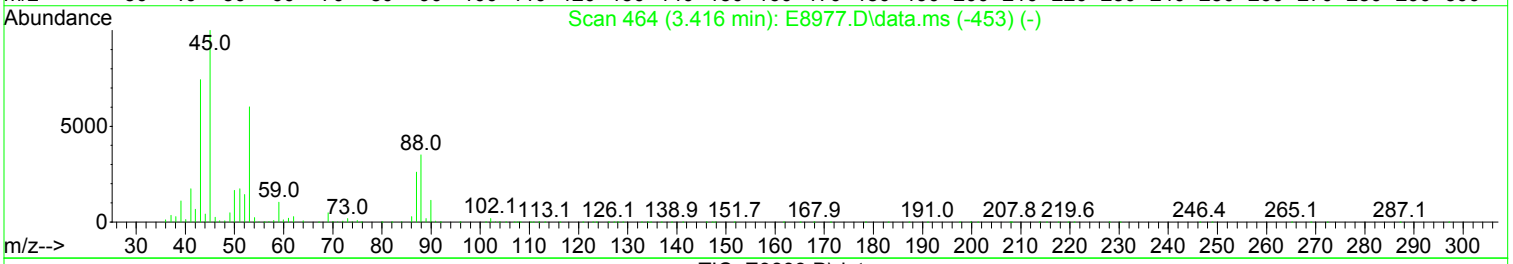
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9809.D
Acq On : 15 Feb 2024 01:56 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 14:14:48 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9809.D\data.ms

(31) 2-Chloro-1,3-Butadiene

3.422min (+ 0.006) 5.27 ug/L m

response 35383

Ion	Exp%	Act%
53.10	100.00	100.00
88.00	58.30	53.81
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

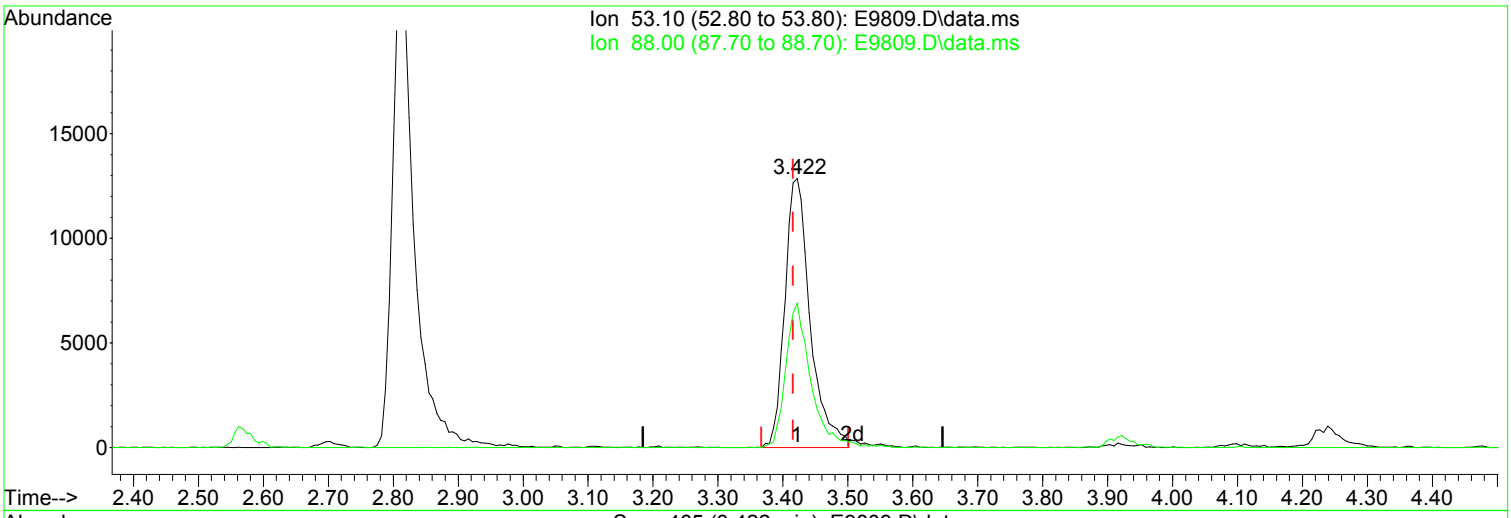
Poor integration.

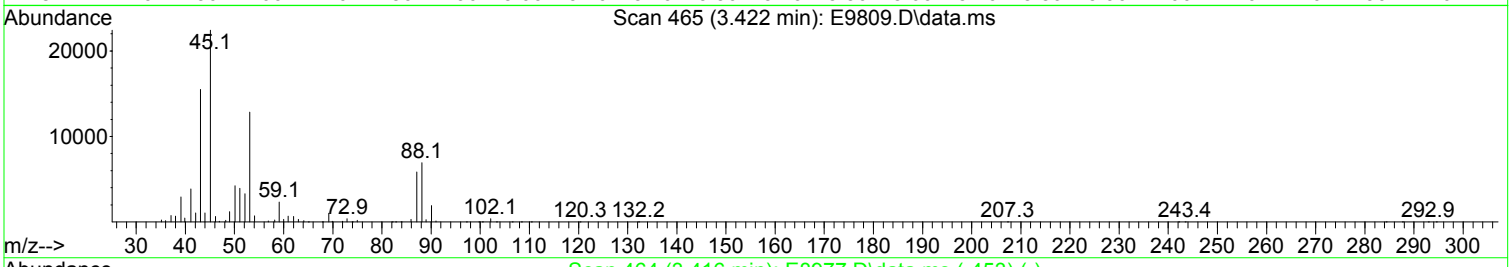
02/16/24

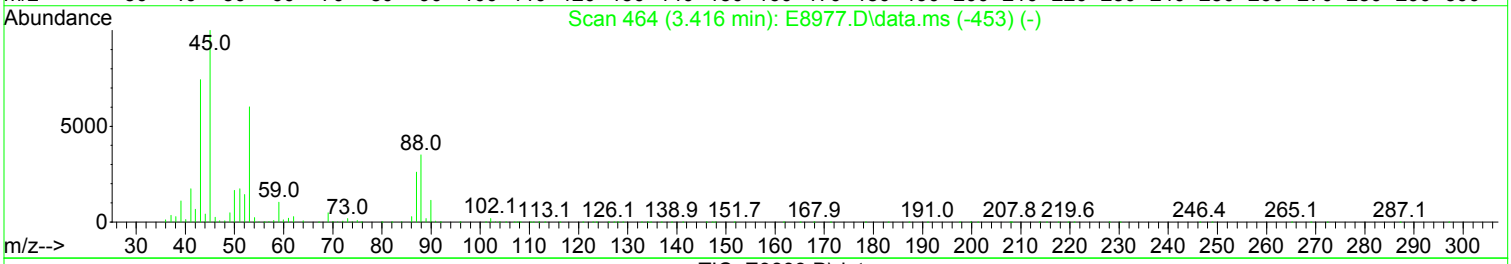
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9809.D
Acq On : 15 Feb 2024 01:56 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 14:14:48 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9809.D\data.ms

(31) 2-Chloro-1,3-Butadiene

3.422min (+ 0.006) 5.19 ug/L

response 34853

Ion	Exp%	Act%
53.10	100.00	100.00
88.00	58.30	53.81
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

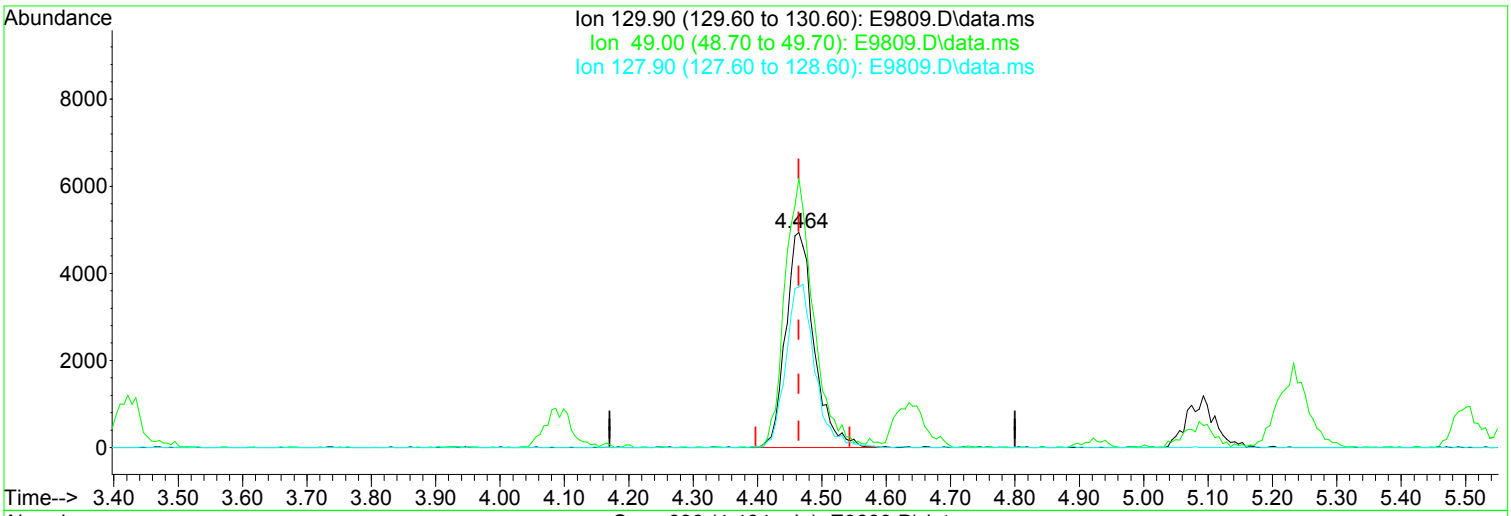
Before

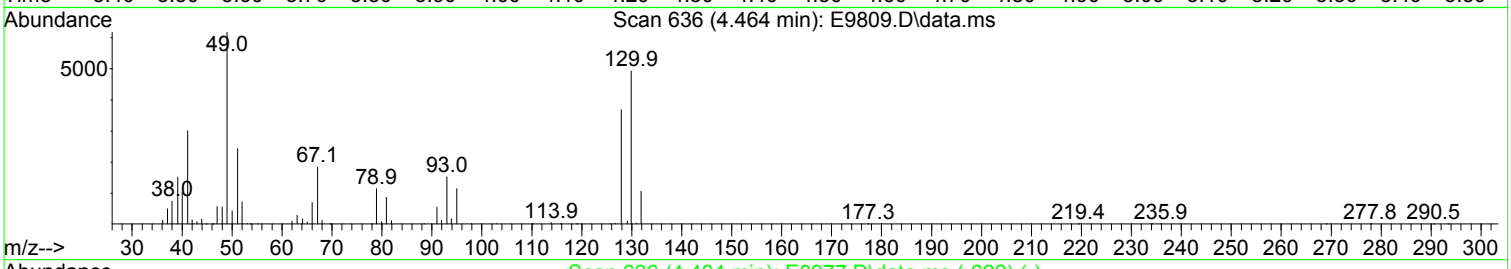
02/16/24

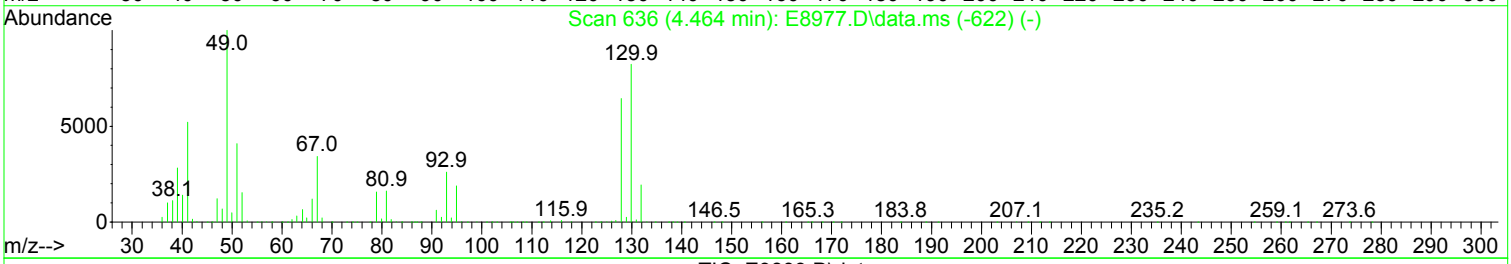
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9809.D
Acq On : 15 Feb 2024 01:56 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 14:14:48 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9809.D\data.ms

(37) Bromochloromethane

4.464min (-0.000) 4.74 ug/L m

response 15160

Ion	Exp%	Act%
129.90	100.00	100.00
49.00	121.60	125.16
127.90	78.30	74.78
0.00	0.00	0.00

Manual Integration:

After

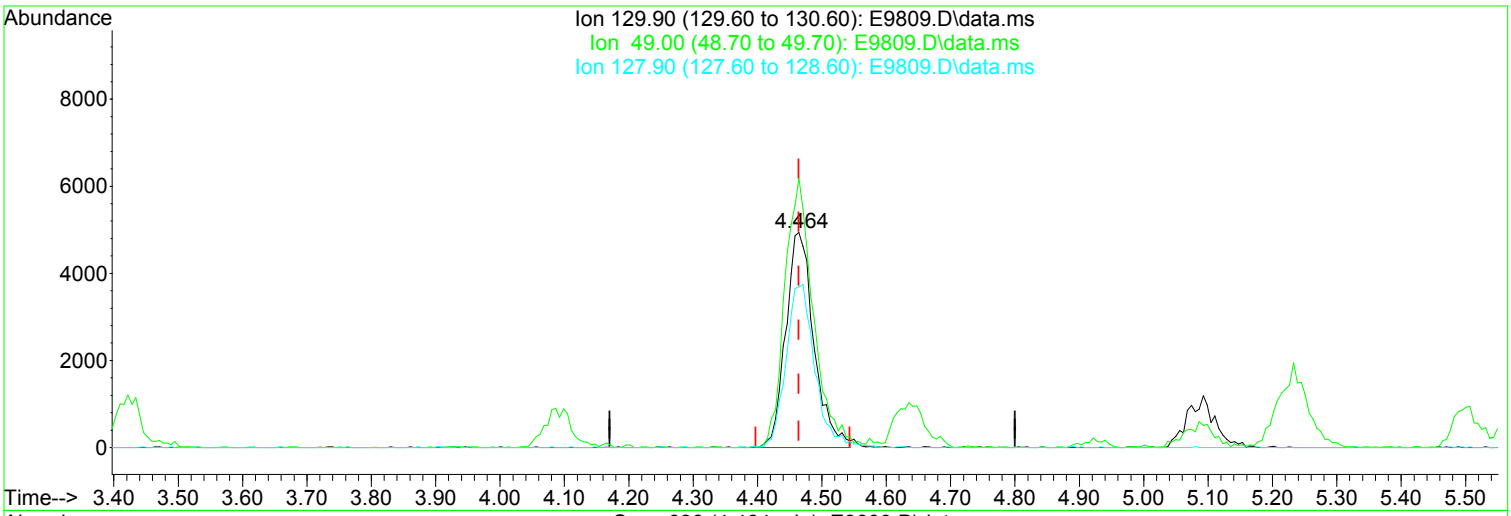
Poor integration.

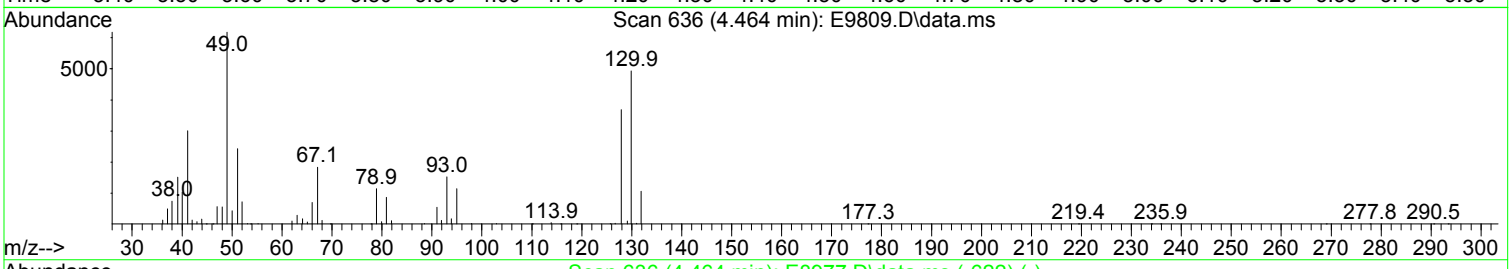
02/16/24

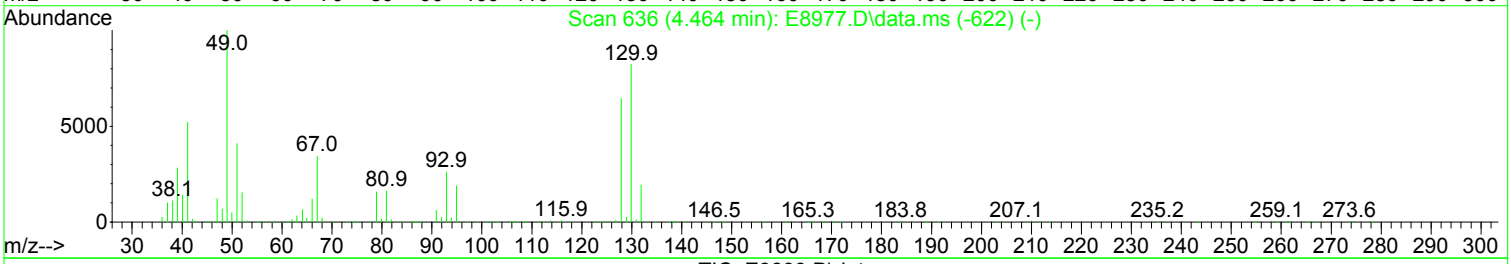
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9809.D
Acq On : 15 Feb 2024 01:56 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 14:14:48 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9809.D\data.ms

(37) Bromochloromethane

4.464min (-0.000) 4.70 ug/L

response 15012

Ion	Exp%	Act%
129.90	100.00	100.00
49.00	121.60	125.16
127.90	78.30	74.78
0.00	0.00	0.00

Manual Integration:

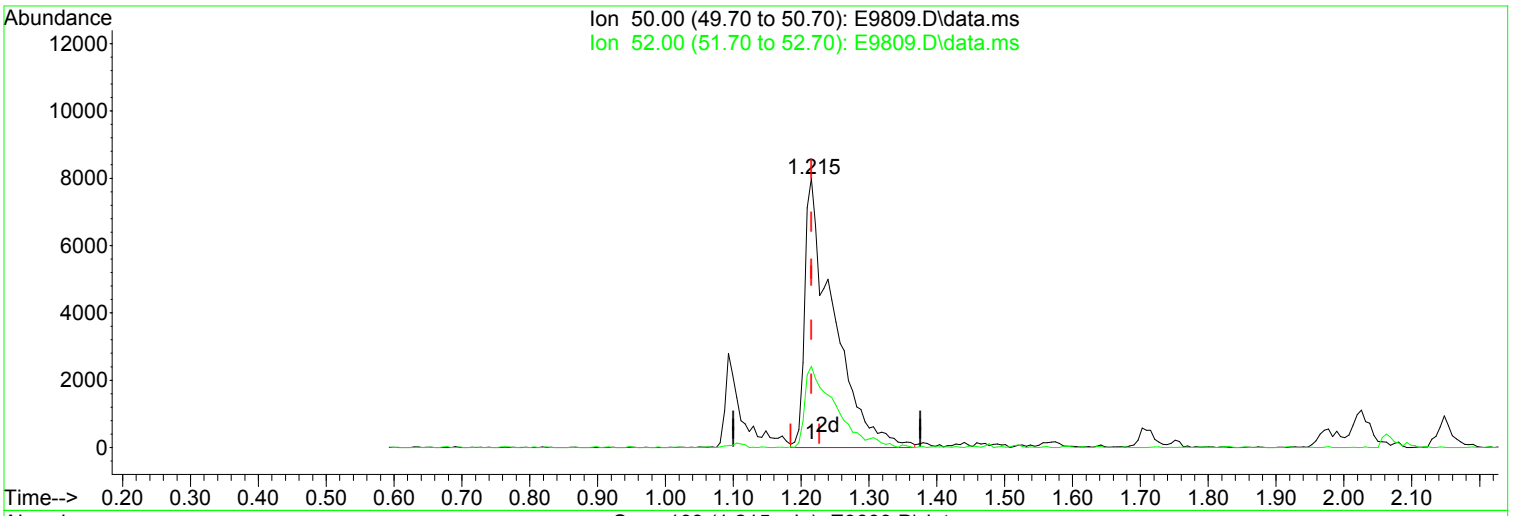
Before

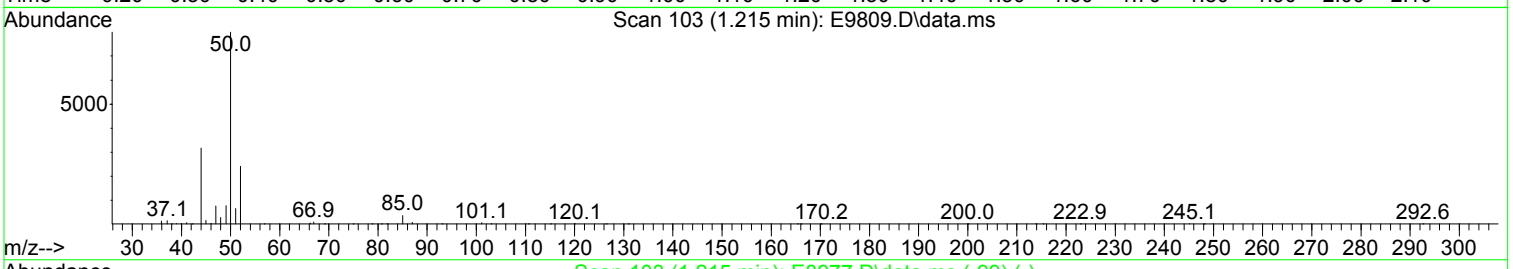
02/16/24

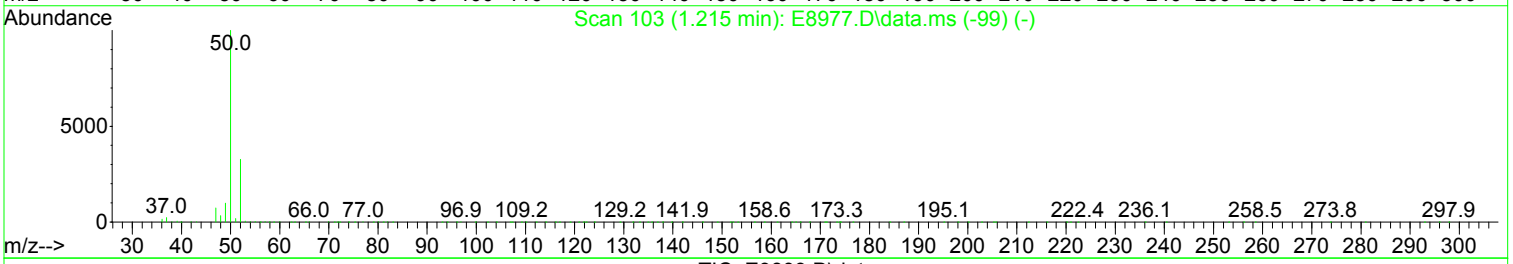
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9809.D
Acq On : 15 Feb 2024 01:56 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 14:14:48 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9809.D\data.ms

(4) Chloromethane (P)

1.215min (-0.000) 4.63 ug/L m

response 23341

Ion	Exp%	Act%
50.00	100.00	100.00
52.00	32.80	30.19
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

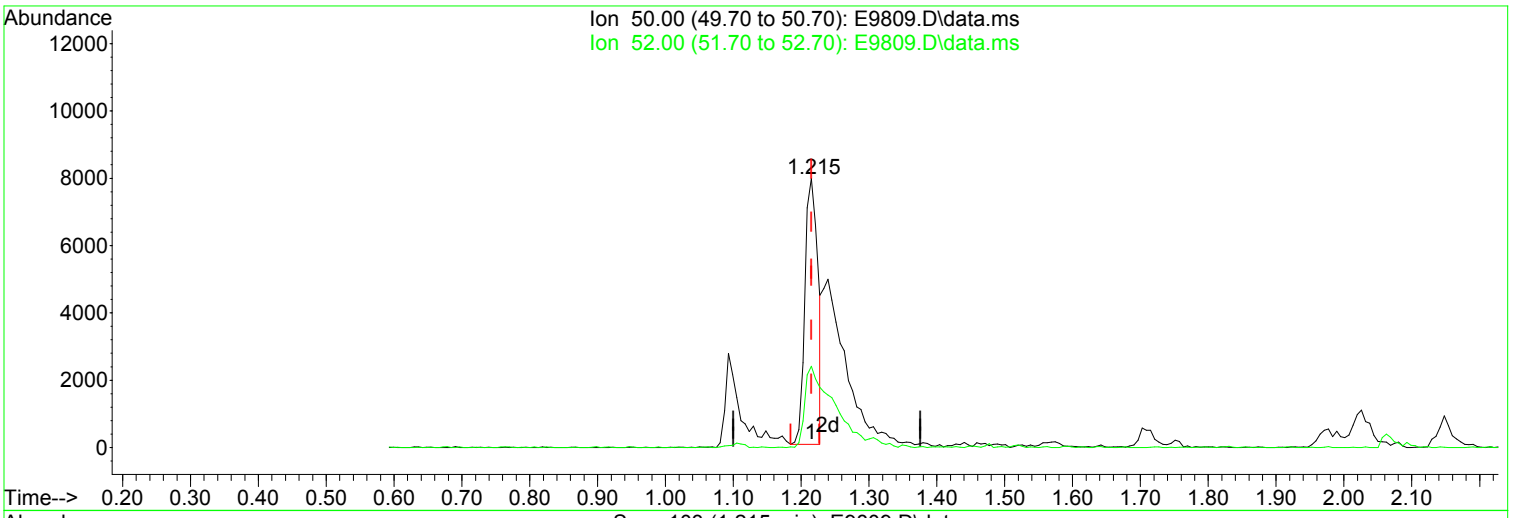
Split Peak.

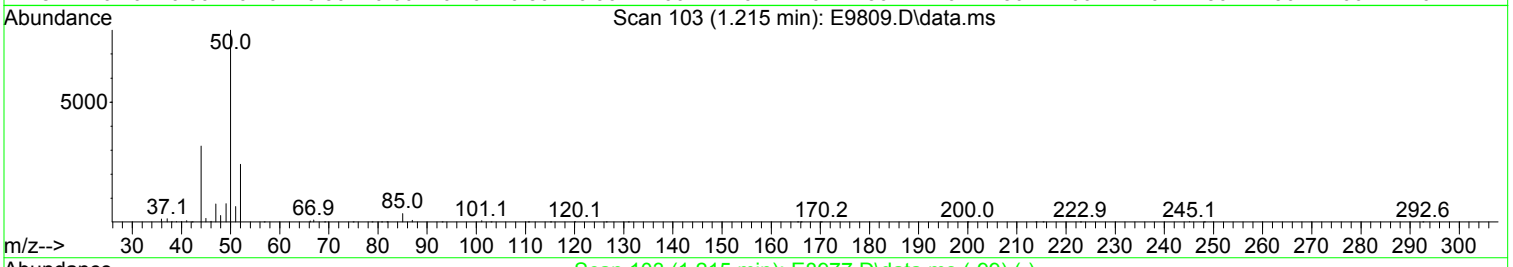
02/16/24

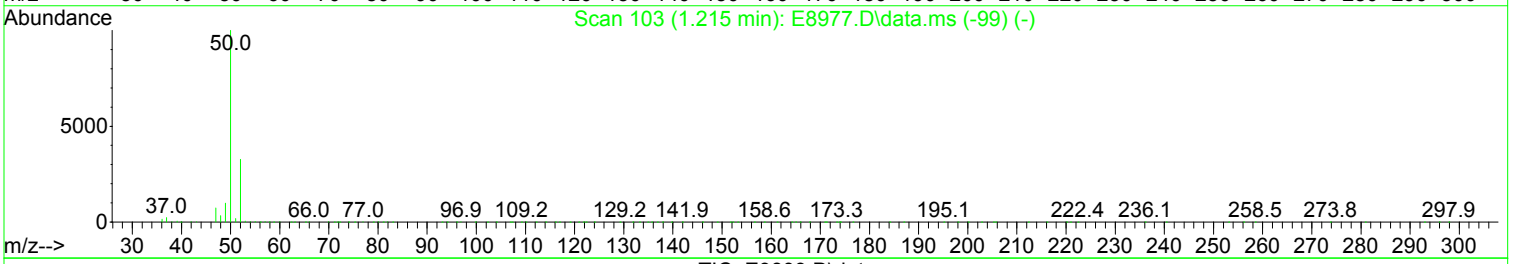
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9809.D
Acq On : 15 Feb 2024 01:56 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 14:14:48 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9809.D\data.ms

(4) Chloromethane (P)

1.215min (-0.000) 2.09 ug/L

response 10528

Ion	Exp%	Act%
50.00	100.00	100.00
52.00	32.80	30.19
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

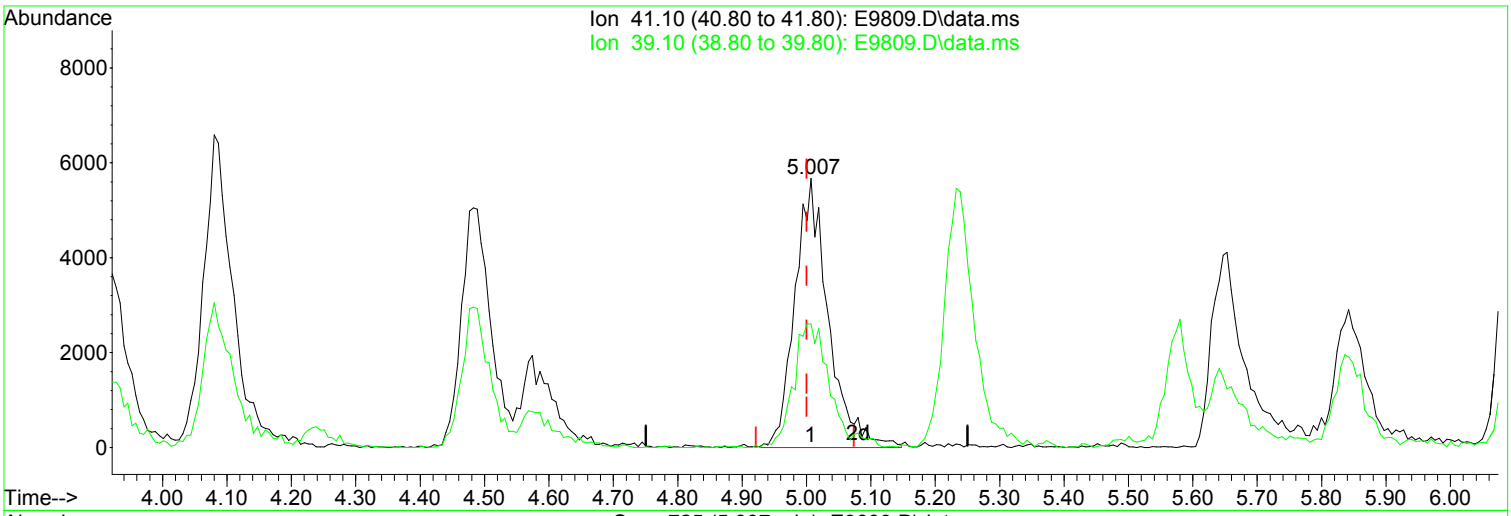
Before

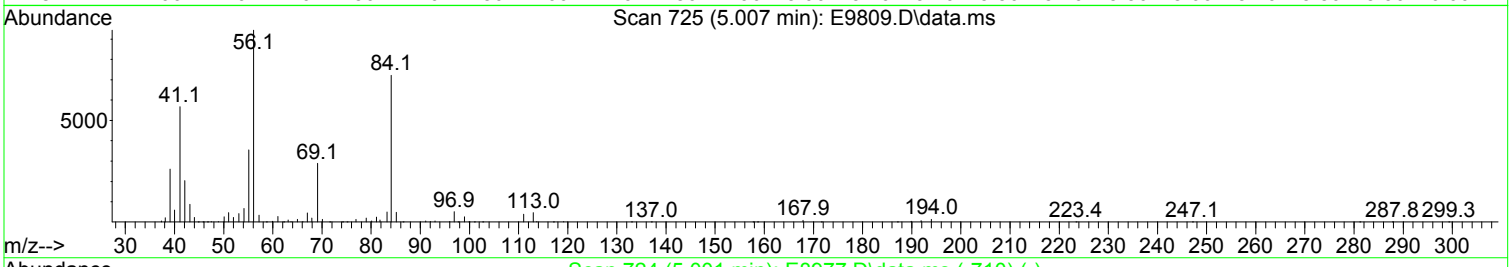
02/16/24

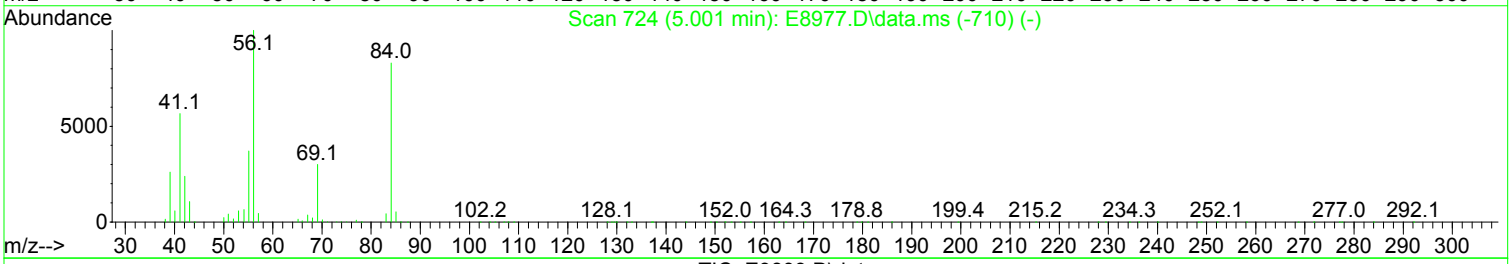
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9809.D
Acq On : 15 Feb 2024 01:56 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 14:14:48 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9809.D\data.ms

(44) Cyclohexane (P)

5.007min (+ 0.006) 5.20 ug/L m

response 20460

Ion	Exp%	Act%
41.10	100.00	100.00
39.10	46.60	45.95
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

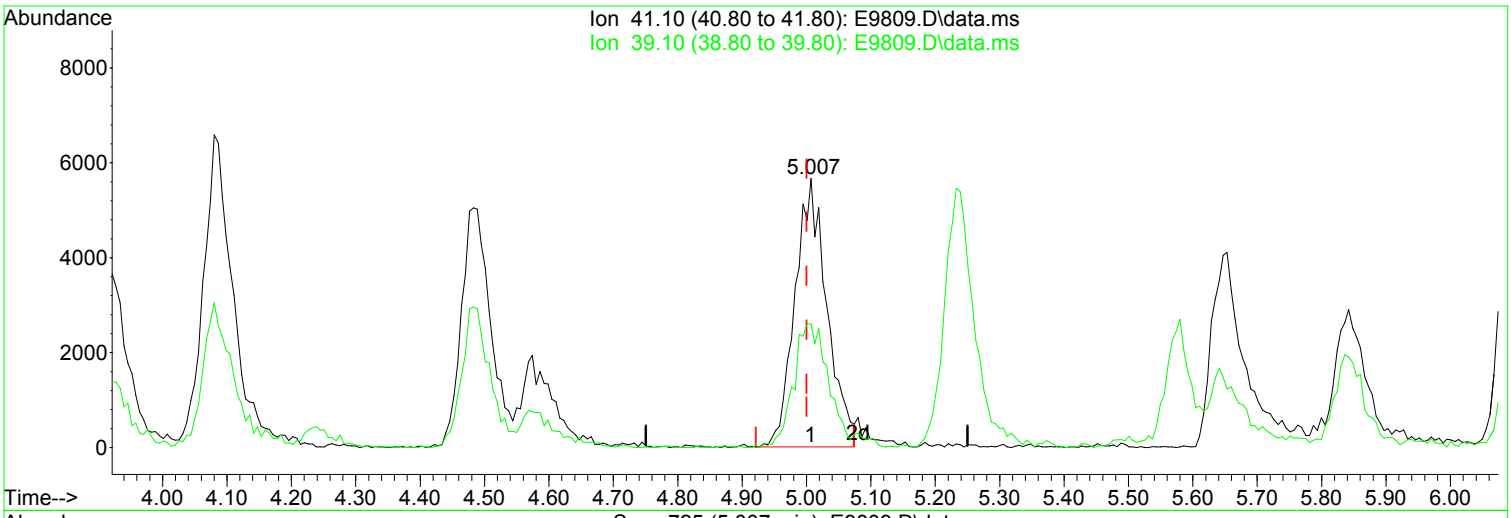
Poor integration.

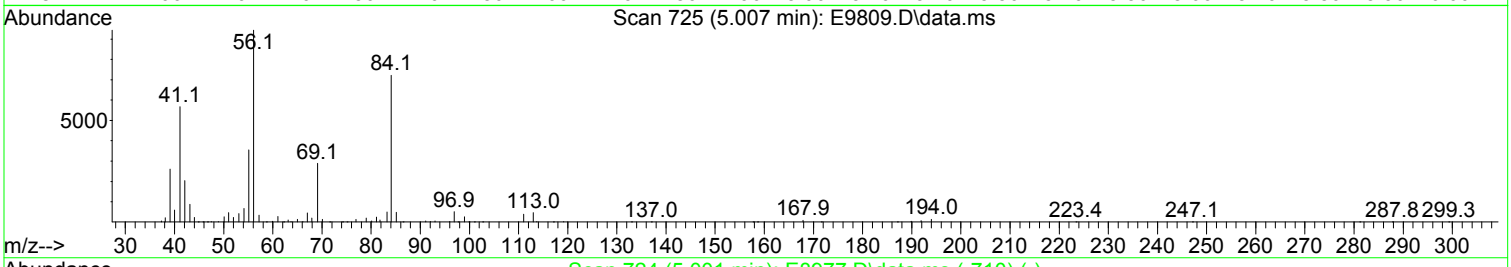
02/16/24

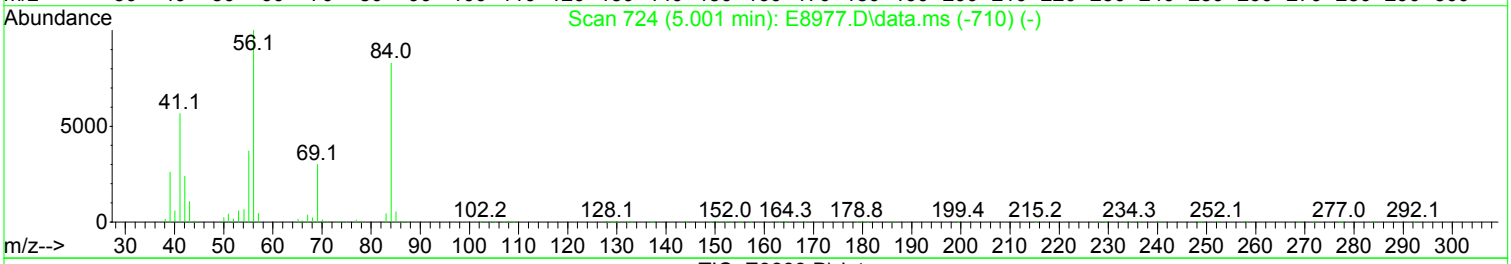
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9809.D
Acq On : 15 Feb 2024 01:56 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 14:14:48 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9809.D\data.ms

(44) Cyclohexane (P)

5.007min (+ 0.006) 4.95 ug/L

response 19464

Ion	Exp%	Act%
41.10	100.00	100.00
39.10	46.60	45.95
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

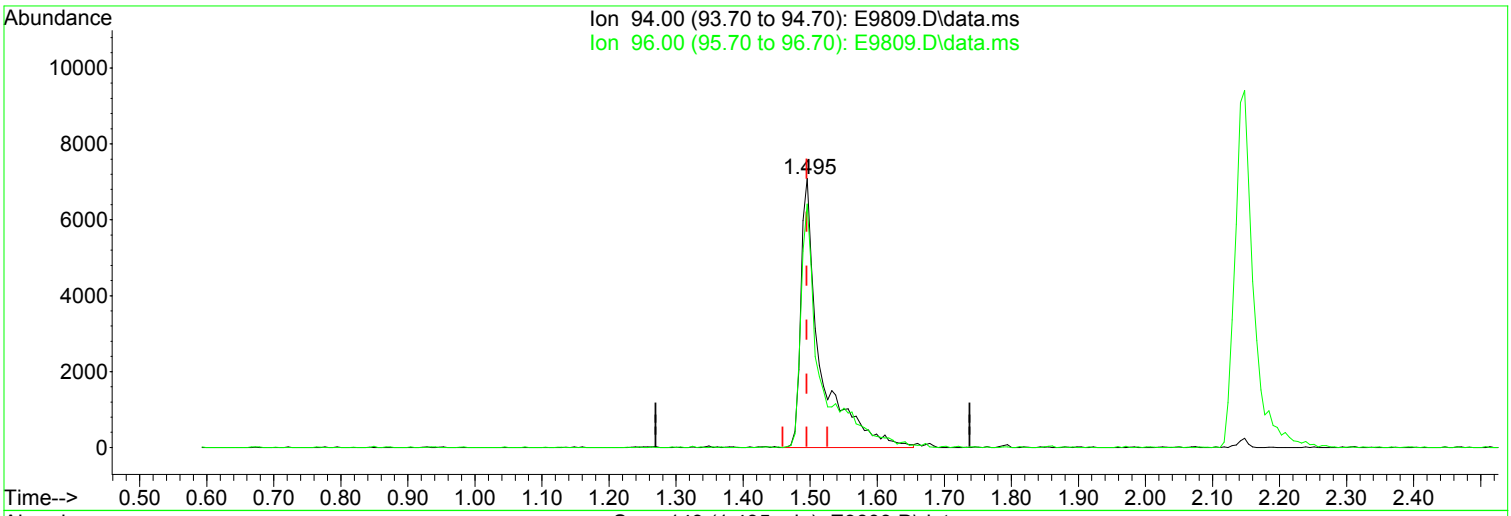
Before

02/16/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9809.D
Acq On : 15 Feb 2024 01:56 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 14:14:48 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration



TIC: E9809.D\data.ms

(6) Bromomethane (P)

1.495min (+ 0.000) 5.27 ug/L m

response 14531

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	96.90	90.52
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

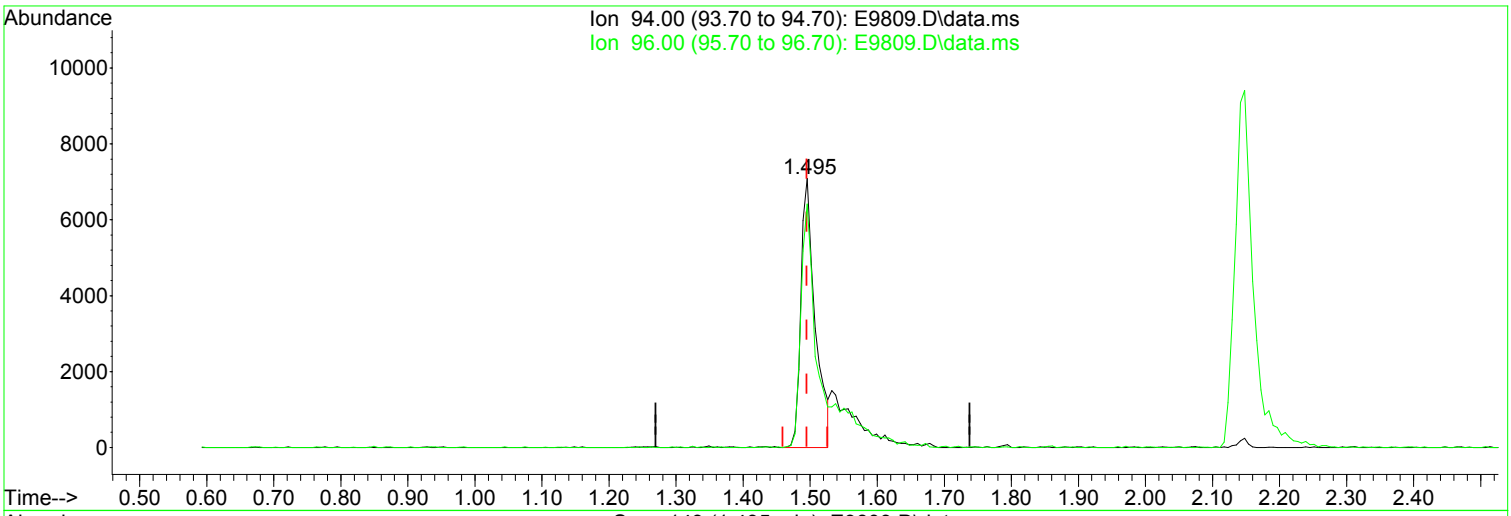
Poor integration.

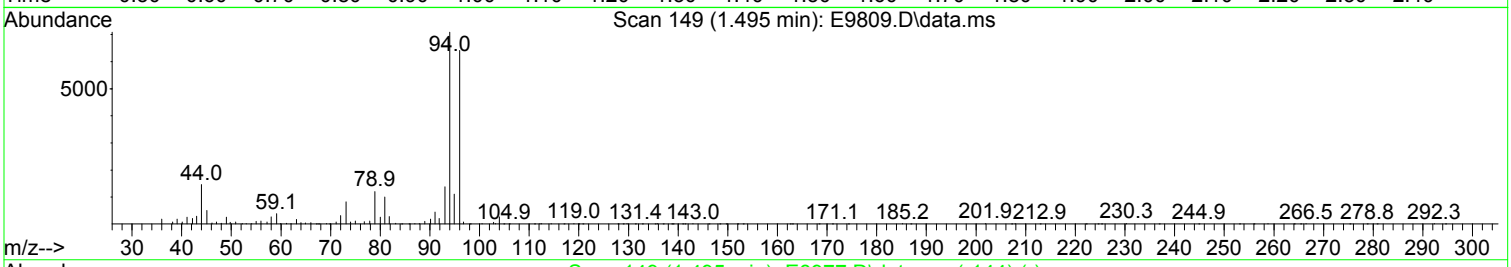
02/16/24

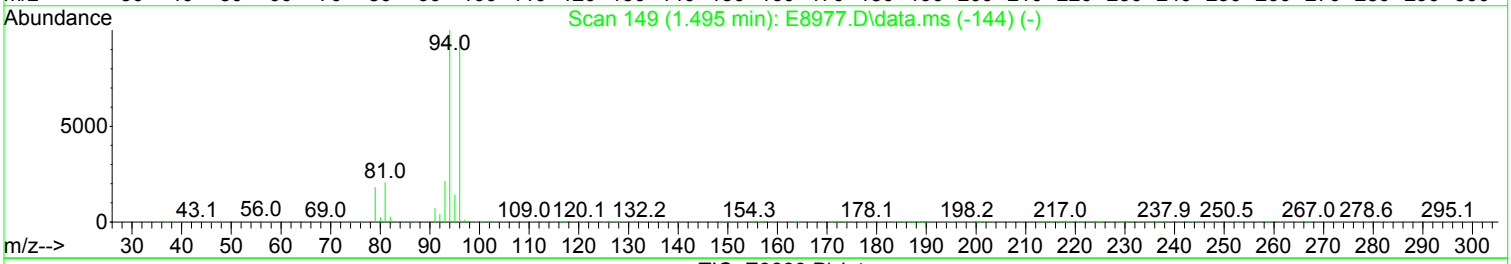
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9809.D
Acq On : 15 Feb 2024 01:56 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 14:14:48 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9809.D\data.ms

(6) Bromomethane (P)

1.495min (+ 0.000) 3.80 ug/L

response 10469

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	96.90	90.52
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

02/16/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9809.D
Acq On : 15 Feb 2024 01:56 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 14:14:48 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.086	168	460371	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.245	114	674918	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.616	117	593585	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	11.683	152	295779	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.928	113	46323	10.61	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 21.22%#				
48) surr1,1,2-dichloroetha...	5.501	65	57472	12.69	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 25.38%#				
65) SURR3,Toluene-d8	8.104	98	173054	10.80	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 21.60%#				
70) SURR2,BFB	10.707	95	67892	11.75	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 23.50%#				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.099	51	22217	4.835	ug/L		97
3) Dichlorodifluoromethane	1.093	85	26756m	4.868	ug/L		
4) Chloromethane	1.215	50	23341m	4.629	ug/L		
5) Vinyl Chloride	1.282	62	23123	4.115	ug/L		96
6) Bromomethane	1.495	94	14531m	5.268	ug/L		
7) Chloroethane	1.569	64	16119	4.487	ug/L		99
8) Freon 21	1.709	67	36487	4.958	ug/L		96
9) Trichlorofluoromethane	1.751	101	32163	4.938	ug/L		95
10) Diethyl Ether	1.971	59	19868	5.320	ug/L		94
11) Freon 123a	1.977	67	20898m	4.591	ug/L		
12) Freon 123	2.026	83	27211m	4.854	ug/L		
13) Acrolein	2.068	56	22702	23.458	ug/L		95
14) 1,1-Diclethene	2.148	96	18169	4.463	ug/L		97
15) Freon 113	2.148	101	19459	4.612	ug/L		97
16) Acetone	2.196	43	12272	5.701	ug/L		94
17) 2-Propanol	2.325	45	37827	100.427	ug/L		93
18) Iodomethane	2.264	142	28067	4.409	ug/L		93
19) Carbon Disulfide	2.325	76	48190	4.003	ug/L		97
20) Acetonitrile	2.446	41	21366m	23.175	ug/L		
21) Allyl Chloride	2.453	76	9291	3.980	ug/L	#	80
22) Methyl Acetate	2.483	43	29836	5.403	ug/L		92
23) Methylene Chloride	2.568	84	19992	4.418	ug/L		91
24) TBA	2.703	59	69669	109.757	ug/L		94
25) Acrylonitrile	2.812	53	53556	24.337	ug/L		96
26) Methyl-t-Butyl Ether	2.855	73	63995	4.938	ug/L		99
27) trans-1,2-Dichloroethene	2.837	96	20140m	4.646	ug/L		
28) 1,1-Diclethane	3.306	63	35985	4.875	ug/L		95
29) Vinyl Acetate	3.391	86	2603	3.656	ug/L	#	60
30) DIPE	3.422	45	66633	4.760	ug/L		96
31) 2-Chloro-1,3-Butadiene	3.422	53	35383m	5.272	ug/L		
32) ETBE	3.922	59	65107	4.865	ug/L		98
33) 2,2-Dichloropropane	4.086	77	31124	4.974	ug/L		96
34) cis-1,2-Dichloroethene	4.092	96	22166	4.469	ug/L		89
35) 2-Butanone	4.160	43	15060	5.041	ug/L		98
36) Propionitrile	4.239	54	21441	24.052	ug/L		98
37) Bromochloromethane	4.464	130	15160m	4.742	ug/L		
38) Methacrylonitrile	4.489	67	10187	4.455	ug/L		90
39) Tetrahydrofuran	4.574	42	8851	5.005	ug/L		95
40) Chloroform	4.641	83	36837	4.910	ug/L		96

1st 02/16/24
2nd 02/16/24

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9809.D
Acq On : 15 Feb 2024 01:56 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 14:14:48 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 1,1,1-Trichloroethane	4.922	97	32443	4.892	ug/L		90
42) TAME	5.842	73	59200	4.586	ug/L		94
44) Cyclohexane	5.007	41	20460m	5.203	ug/L		
46) Carbontetrachloride	5.220	117	29251	4.913	ug/L		98
47) 1,1-Dichloropropene	5.239	75	25592	4.840	ug/L		95
49) Benzene	5.580	78	73358	4.793	ug/L		92
50) 1,2-Dichloroethane	5.629	62	31745	5.914	ug/L		95
51) Iso-Butyl Alcohol	5.653	43	21228	121.182	ug/L		90
52) n-Heptane	6.092	43	29337	4.802	ug/L		97
53) 1-Butanol	6.653	56	30154	300.777	ug/L		98
54) Trichloroethene	6.574	130	23380	5.054	ug/L		95
55) Methylcyclohexane	6.812	55	28438	5.116	ug/L		92
56) 1,2-Diclpropane	6.866	63	19486	4.603	ug/L		96
57) Dibromomethane	7.013	93	14292	4.978	ug/L		99
58) 1,4-Dioxane	7.110	88	7203	108.568	ug/L		93
59) Methyl Methacrylate	7.116	69	16226	4.679	ug/L		92
60) Bromodichloromethane	7.250	83	27697	4.924	ug/L		95
61) 2-Nitropropane	7.555	41	14591	9.925	ug/L		97
62) 2-Chloroethylvinyl Ether	7.677	63	6710	2.461	ug/L		97
63) cis-1,3-Dichloropropene	7.811	75	31222	4.655	ug/L		100
64) 4-Methyl-2-pentanone	8.031	43	27529	5.364	ug/L		88
66) Toluene	8.177	91	85708	5.063	ug/L		99
67) trans-1,3-Dichloropropene	8.464	75	29290	4.622	ug/L		95
68) Ethyl Methacrylate	8.610	69	28749	4.669	ug/L		88
69) 1,1,2-Trichloroethane	8.647	97	20346	4.942	ug/L		98
72) Tetrachloroethene	8.775	164	18678	5.329	ug/L		97
73) 2-Hexanone	8.957	43	19278	4.998	ug/L		95
74) 1,3-Dichloropropane	8.823	76	32735	5.036	ug/L		94
75) Dibromochloromethane	9.049	129	22486	4.418	ug/L		95
76) N-Butyl Acetate	9.116	43	41419	5.187	ug/L		97
77) 1,2-Dibromoethane	9.146	107	21564	5.061	ug/L		99
78) 3-Chlorobenzotrifluoride	9.677	180	33700	5.332	ug/L		98
79) Chlorobenzene	9.646	112	58717	5.109	ug/L		98
80) 4-Chlorobenzotrifluoride	9.732	180	30721	5.449	ug/L		96
81) 1,1,1,2-Tetrachloroethane	9.738	131	22000	4.721	ug/L		98
82) Ethylbenzene	9.768	106	31027	5.078	ug/L	#	87
83) (m+p)Xylene	9.884	106	75315	10.329	ug/L		92
84) o-Xylene	10.244	106	36382	5.100	ug/L		98
85) Styrene	10.256	104	60542	4.896	ug/L		92
86) Bromoform	10.408	173	14368	4.325	ug/L		99
87) 2-Chlorobenzotrifluoride	10.494	180	31936	5.336	ug/L		95
88) Isopropylbenzene	10.579	105	96150	5.151	ug/L		99
89) Cyclohexanone	10.652	55	117630	118.197	ug/L		100
90) trans-1,4-Dichloro-2-B...	10.896	53	8996	4.960	ug/L	#	70
92) 1,1,2,2-Tetrachloroethane	10.853	83	27646	4.589	ug/L		98
93) Bromobenzene	10.823	156	25540	5.071	ug/L		95
94) 1,2,3-Trichloropropane	10.878	110	10389	5.160	ug/L		97
95) n-Propylbenzene	10.939	91	109538	5.494	ug/L		98
96) 2-Chlorotoluene	11.000	91	66858	5.187	ug/L		94
97) 3-Chlorotoluene	11.055	91	70033	5.157	ug/L		98
98) 4-Chlorotoluene	11.091	91	79547	5.222	ug/L		97
99) 1,3,5-Trimethylbenzene	11.097	105	82346	5.148	ug/L		98
100) tert-Butylbenzene	11.366	119	71965	5.052	ug/L		97
101) 1,2,4-Trimethylbenzene	11.408	105	78670	4.905	ug/L		99
102) 3,4-Dichlorobenzotrifl...	11.469	214	23658	5.060	ug/L		96
103) sec-Butylbenzene	11.548	105	100990	4.982	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9809.D
Acq On : 15 Feb 2024 01:56 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 14:14:48 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) p-Isopropyltoluene	11.670	119	87380	4.999	ug/L	97
105) 1,3-Dclbenz	11.628	146	48774	5.140	ug/L	98
106) 1,4-Dclbenz	11.701	146	49467	5.206	ug/L	98
107) 2,4-Dichlorobenzotrifl...	11.762	214	22532	5.486	ug/L	98
108) 2,5-Dichlorobenzotrifl...	11.805	214	24230	5.293	ug/L	94
109) n-Butylbenzene	12.006	91	72290	4.710	ug/L	98
110) 1,2-Dclbenz	12.006	146	46526	5.072	ug/L	98
111) 1,2-Dibromo-3-chloropr...	12.634	157	6664	4.331	ug/L	90
112) Trielution Dichlorotol...	12.756	125	124285	14.693	ug/L	93
113) 1,3,5-Trichlorobenzene	12.798	180	33548	5.047	ug/L	100
114) Coelution Dichlorotoluene	13.079	125	85792	9.737	ug/L	97
115) 1,2,4-Tcbenzene	13.286	180	29810	4.909	ug/L	99
116) Hexachlorobt	13.426	225	16897	5.691	ug/L	97
117) Naphthalen	13.475	128	79137	4.556	ug/L	99
118) 1,2,3-Tclbenzene	13.664	180	28830	5.074	ug/L	98
119) 2,4,5-Trichlorotoluene	14.249	159	20248	4.606	ug/L	97
120) 2,3,6-Trichlorotoluene	14.335	159	20329	4.584	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
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Acq On : 15 Feb 2024 01:56 pm
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Quant Time: Feb 15 14:14:48 2024
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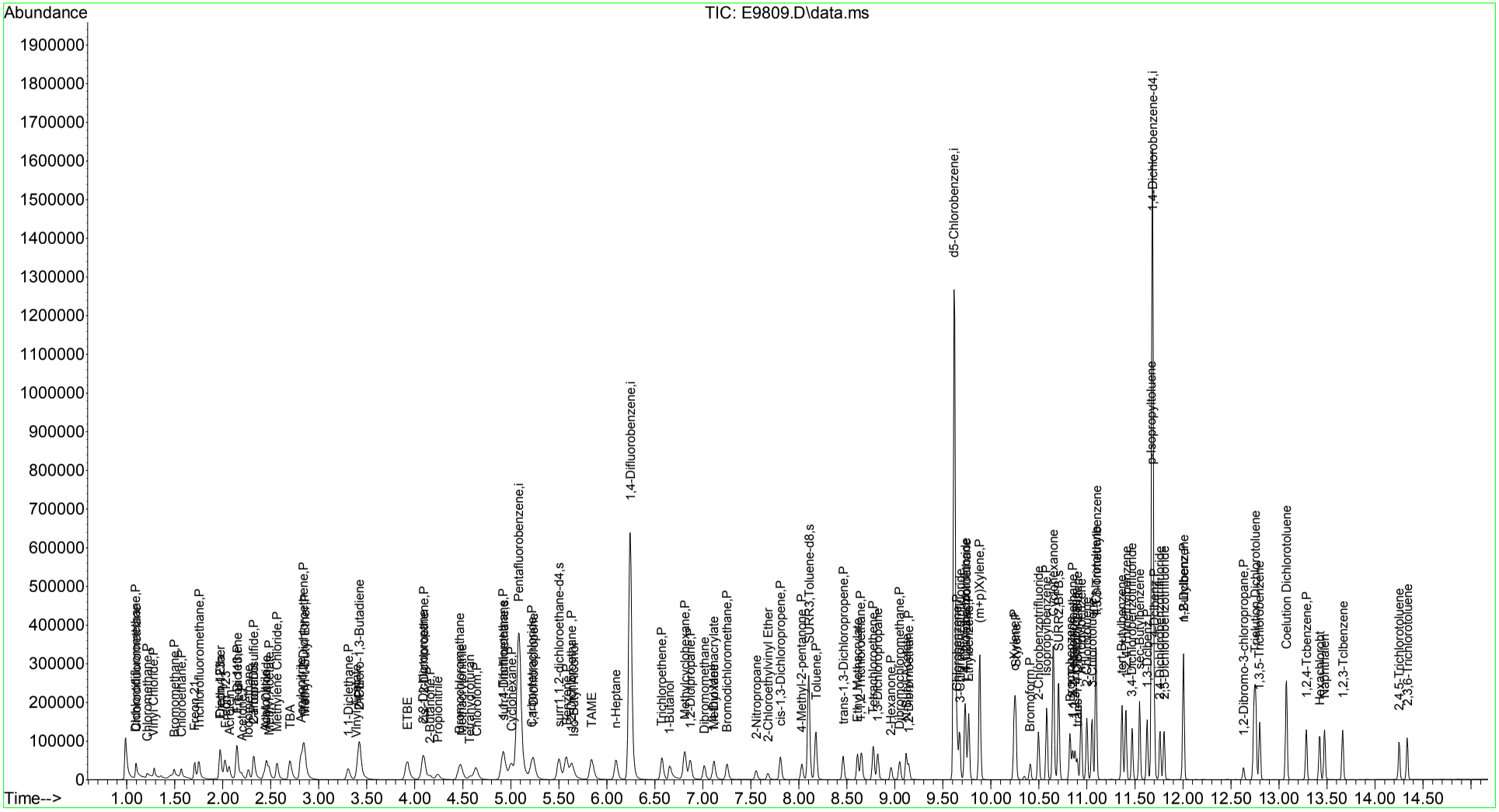
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration

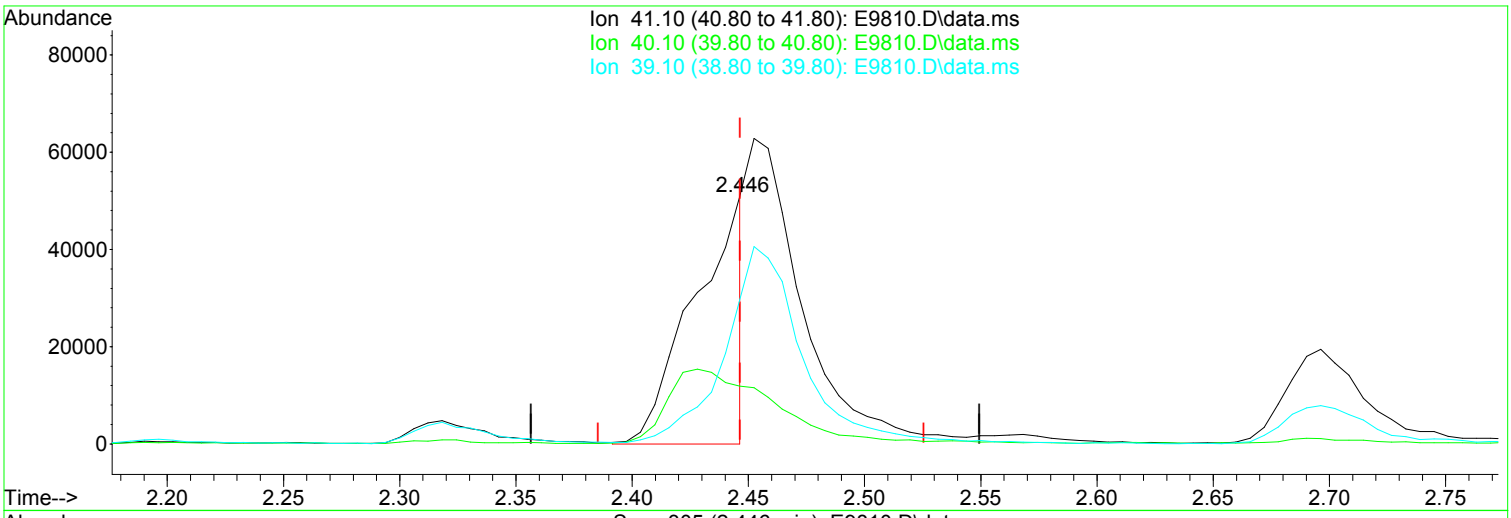


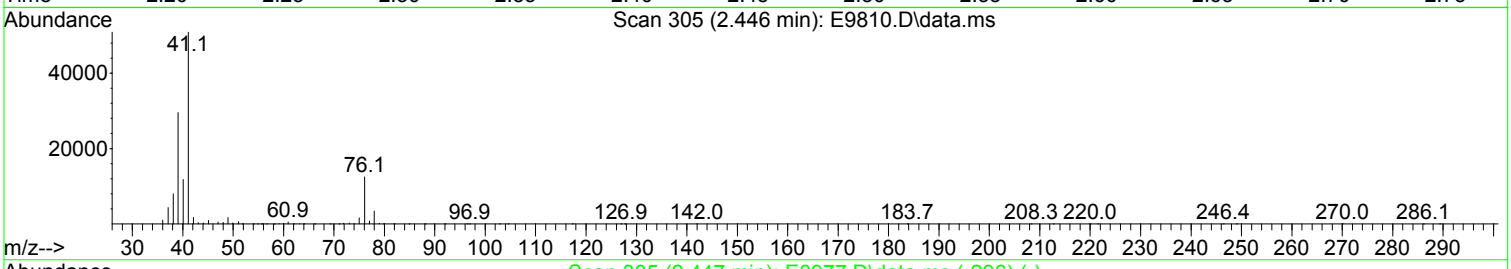
1st 02/16/24
2nd 02/16/24

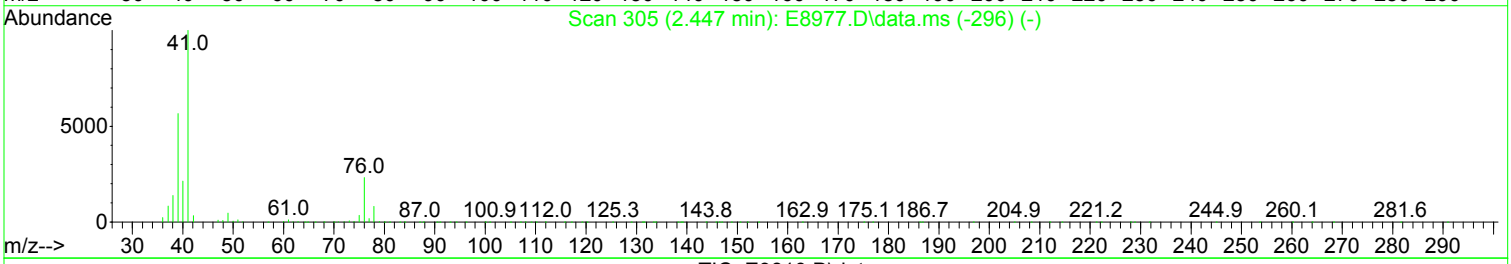
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9810.D
Acq On : 15 Feb 2024 02:19 pm
Operator : K.Ruest
Sample : 20ppb
Misc : WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 15 14:48:50 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9810.D\data.ms

(20) Acetonitrile

2.446min (-0.000) 85.16 ug/L m

response 77659

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	21.50	23.31
39.10	57.00	58.15
0.00	0.00	0.00

Manual Integration:

After

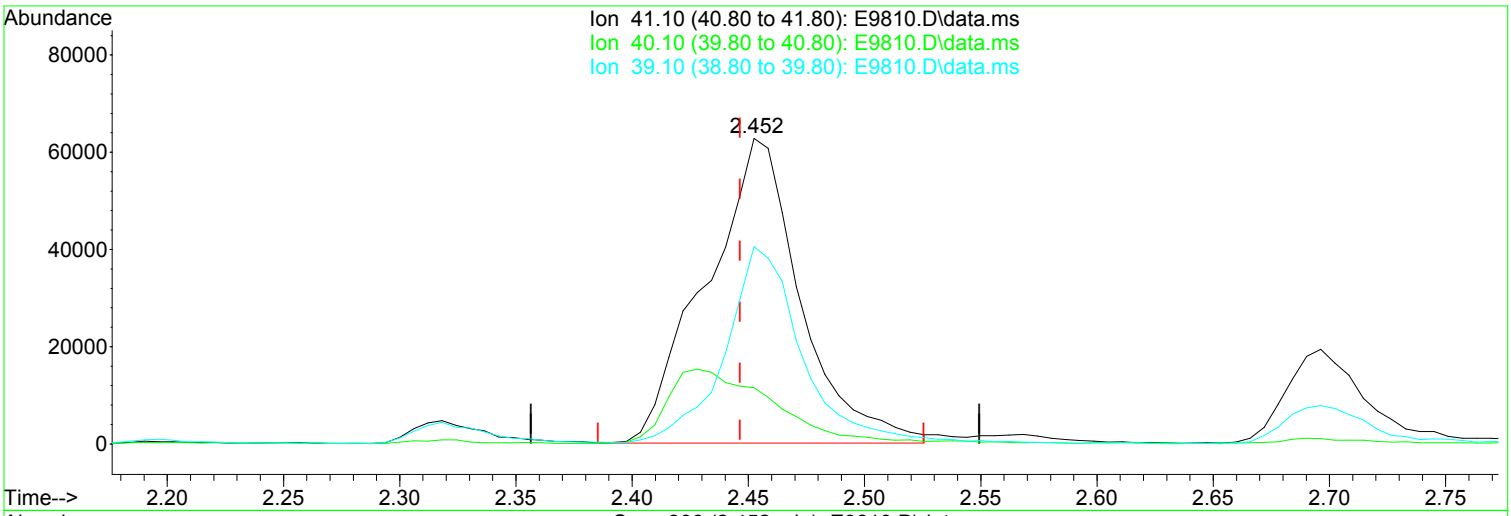
Poor integration.

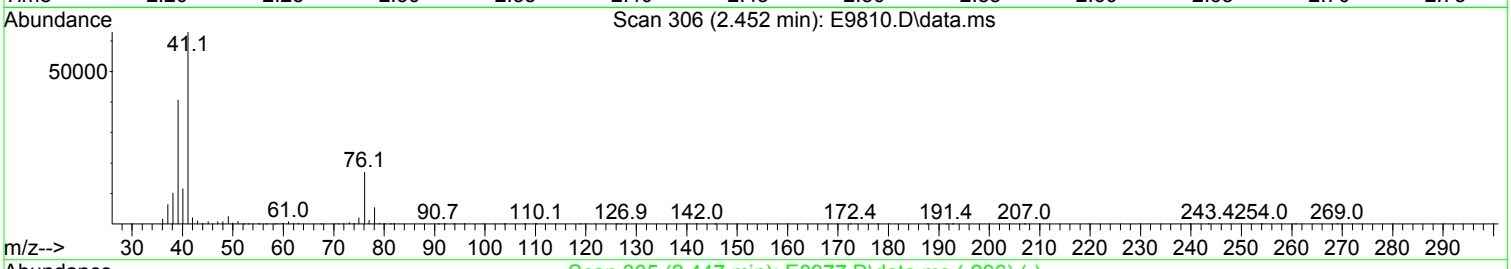
02/16/24

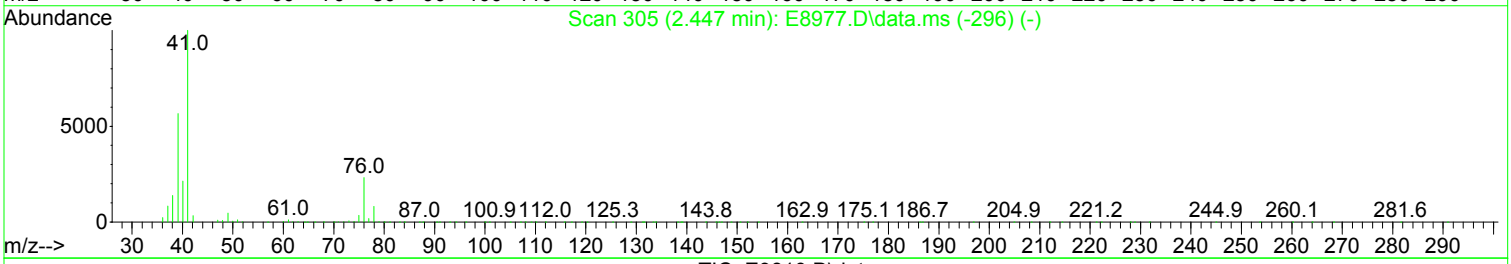
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9810.D
Acq On : 15 Feb 2024 02:19 pm
Operator : K.Ruest
Sample : 20ppb
Misc : WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 15 14:48:50 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9810.D\data.ms

(20) Acetonitrile

2.452min (+ 0.006) 193.71 ug/L

response 176654

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	21.50	18.38
39.10	57.00	64.59
0.00	0.00	0.00

Manual Integration:

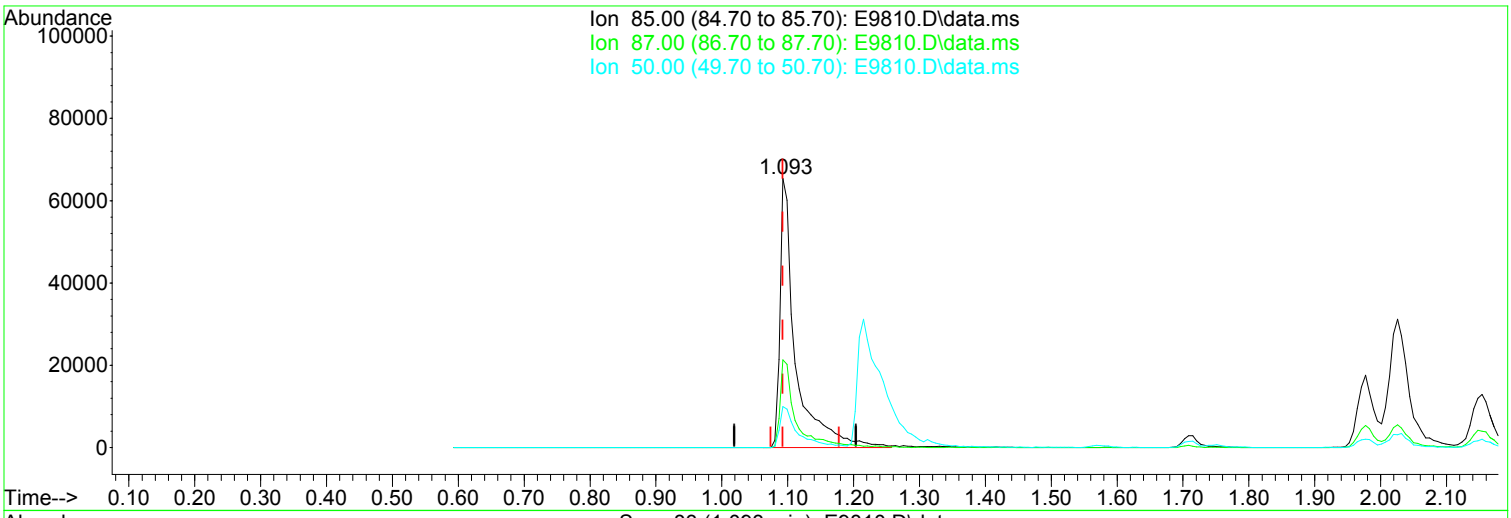
Before

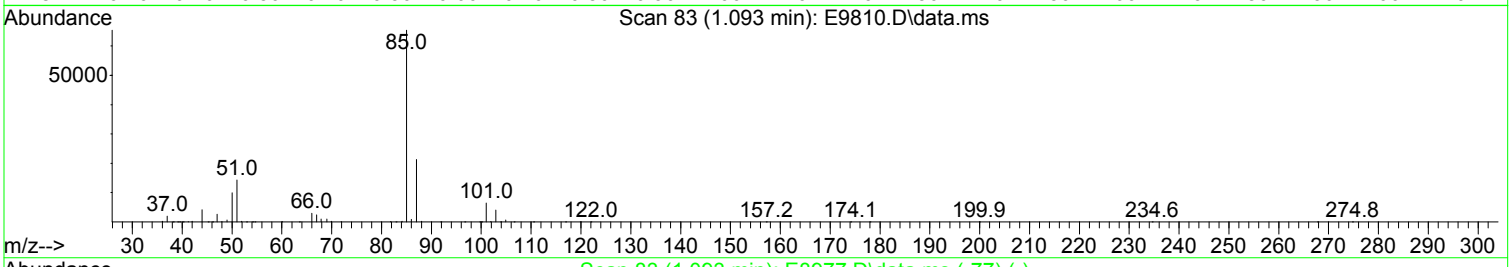
02/16/24

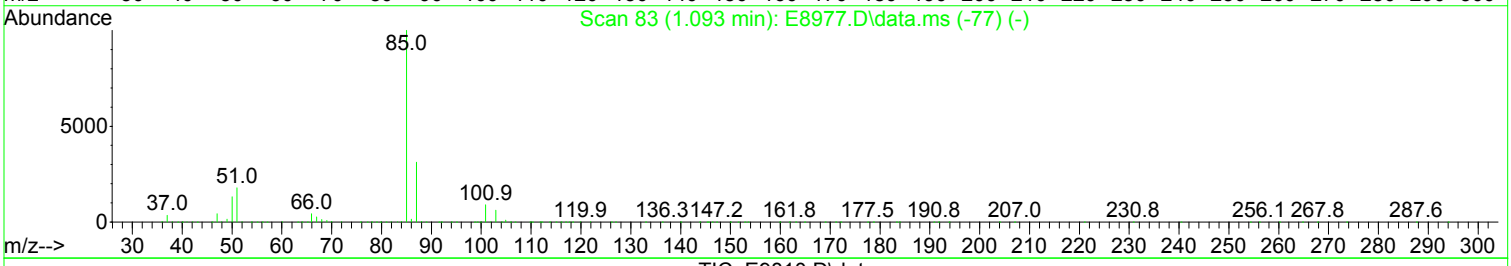
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9810.D
Acq On : 15 Feb 2024 02:19 pm
Operator : K.Ruest
Sample : 20ppb
Misc : WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 15 14:48:50 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9810.D\data.ms

(3) Dichlorodifluoromethane (P)

1.093min (-0.000) 19.69 ug/L m

response 107051

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.10	32.60
50.00	13.20	15.23
0.00	0.00	0.00

Manual Integration:

After

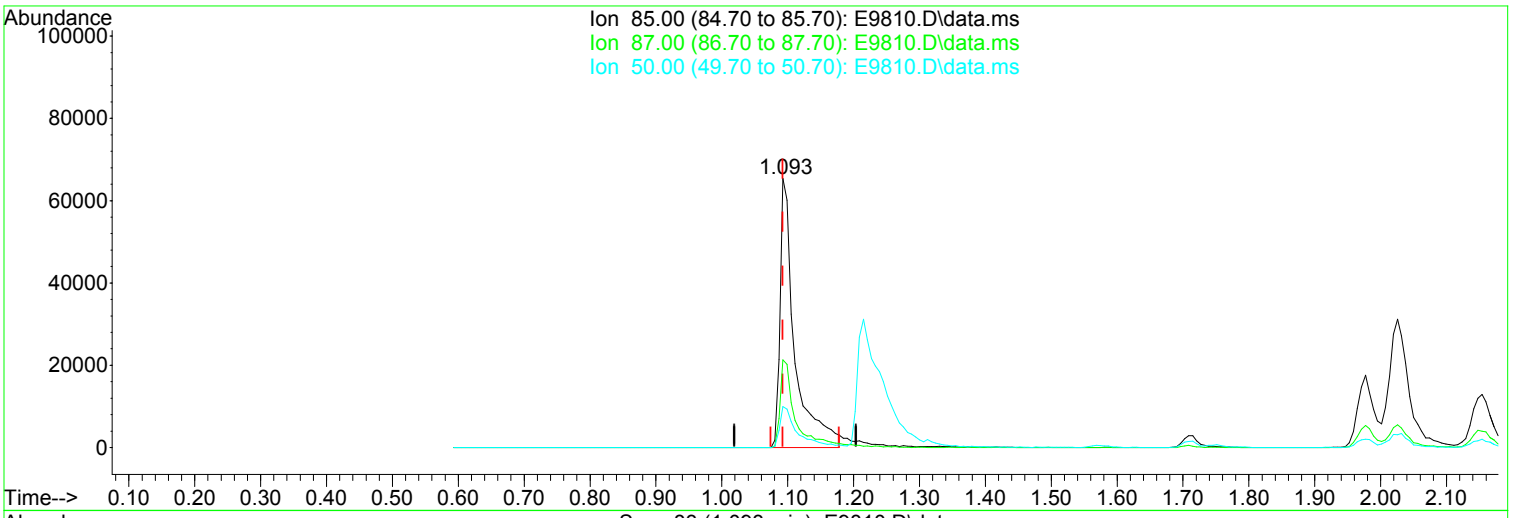
Poor integration.

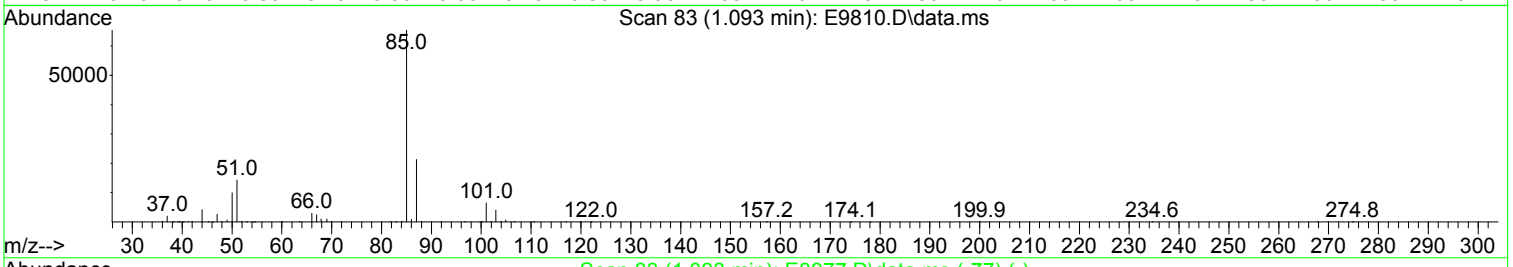
02/16/24

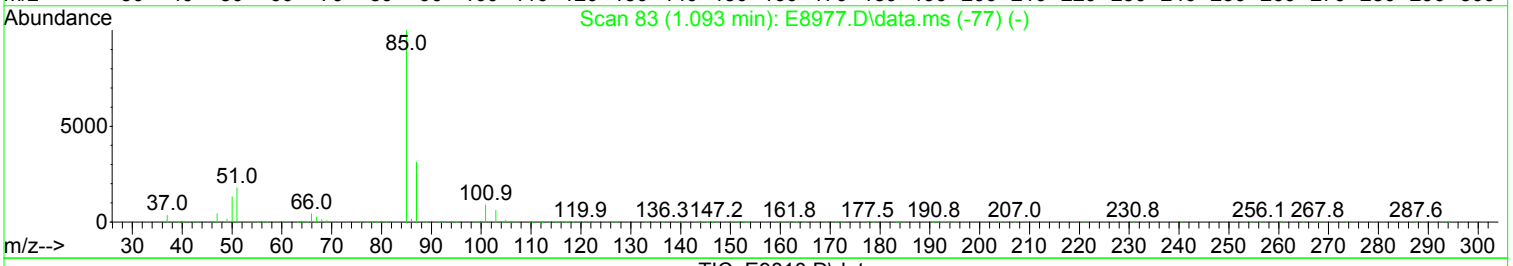
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9810.D
Acq On : 15 Feb 2024 02:19 pm
Operator : K.Ruest
Sample : 20ppb
Misc : WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 15 14:48:50 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9810.D\data.ms

(3) Dichlorodifluoromethane (P)

1.093min (-0.000) 18.63 ug/L

response 101302

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.10	32.60
50.00	13.20	15.23
0.00	0.00	0.00

Manual Integration:

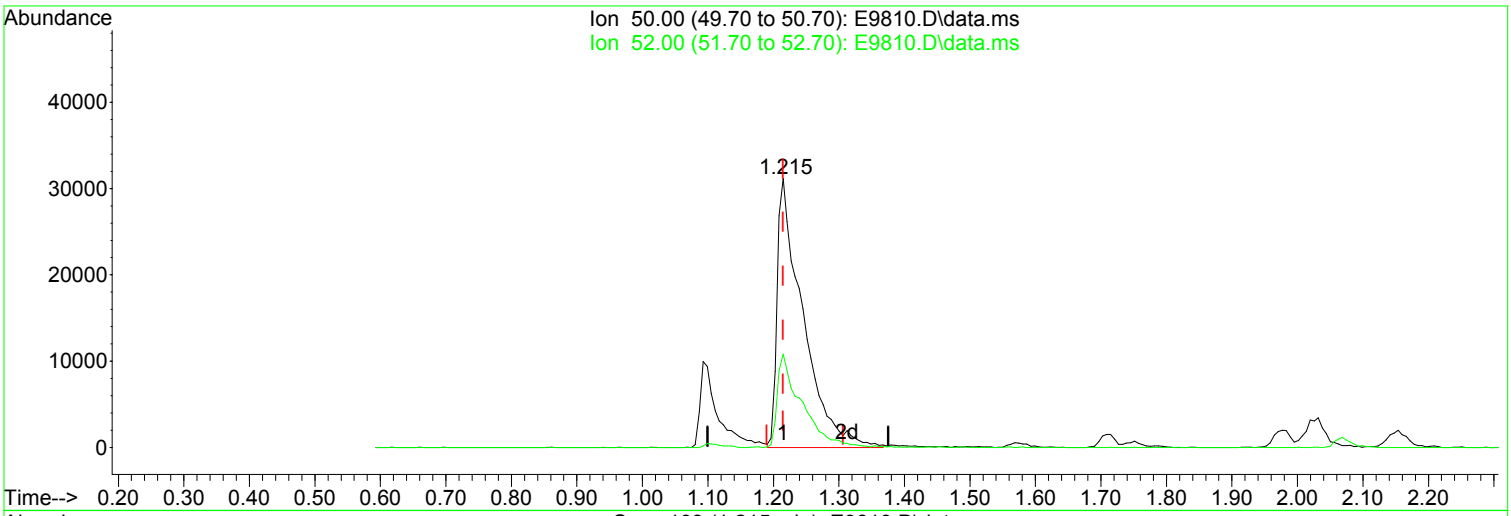
Before

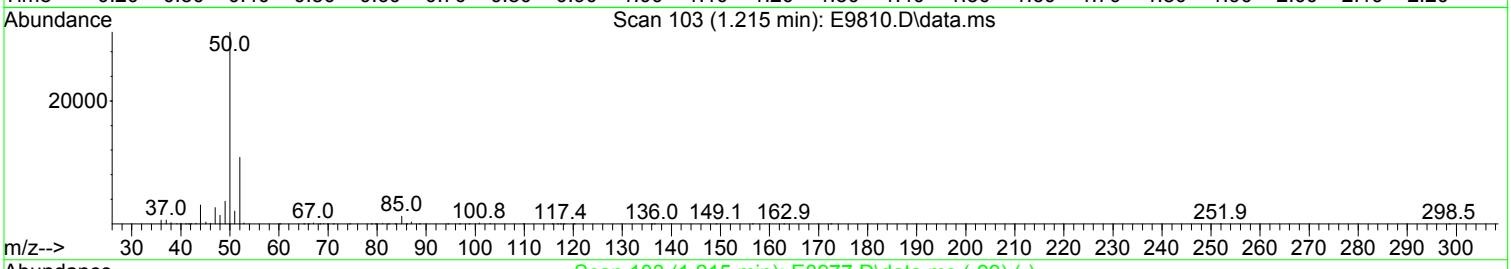
02/16/24

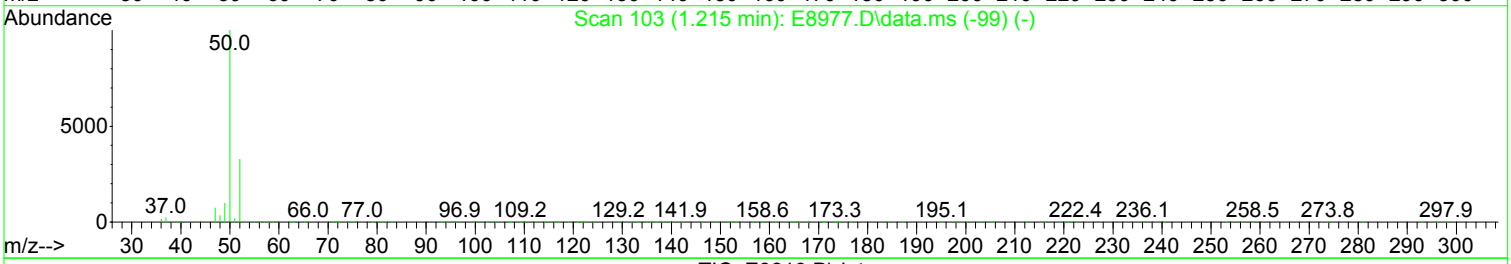
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9810.D
Acq On : 15 Feb 2024 02:19 pm
Operator : K.Ruest
Sample : 20ppb
Misc : WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 15 14:48:50 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9810.D\data.ms

(4) Chloromethane (P)

1.215min (-0.000) 17.03 ug/L m

response 84949

Ion	Exp%	Act%
50.00	100.00	100.00
52.00	32.80	34.79
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

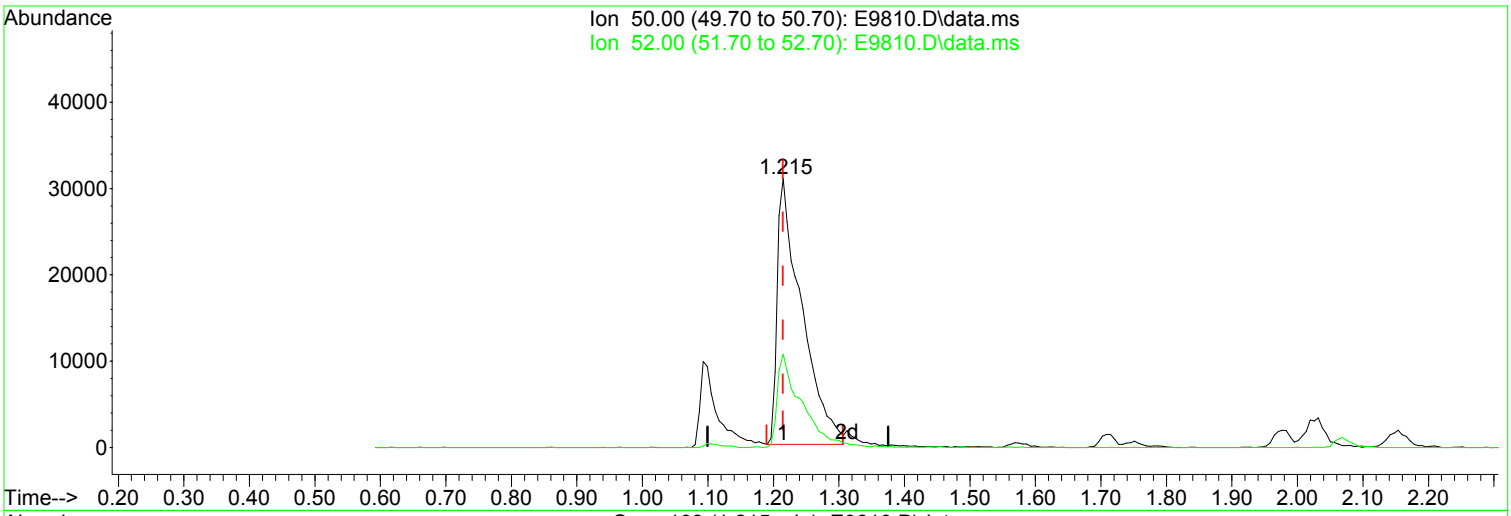
Poor integration.

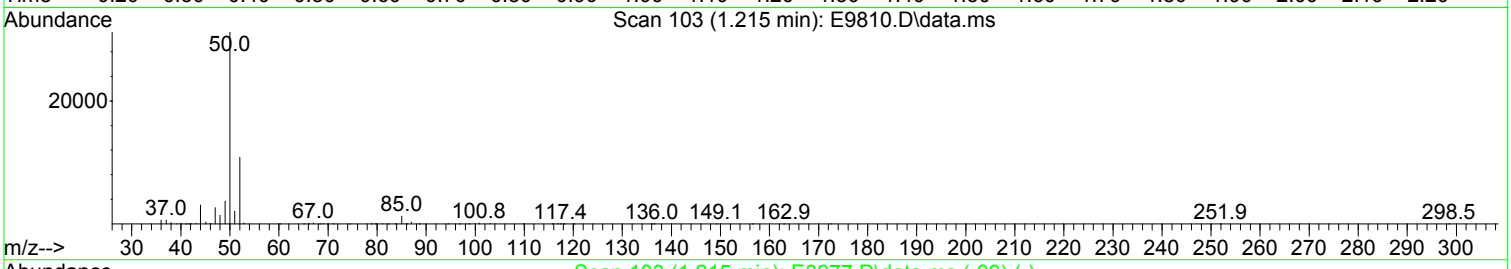
02/16/24

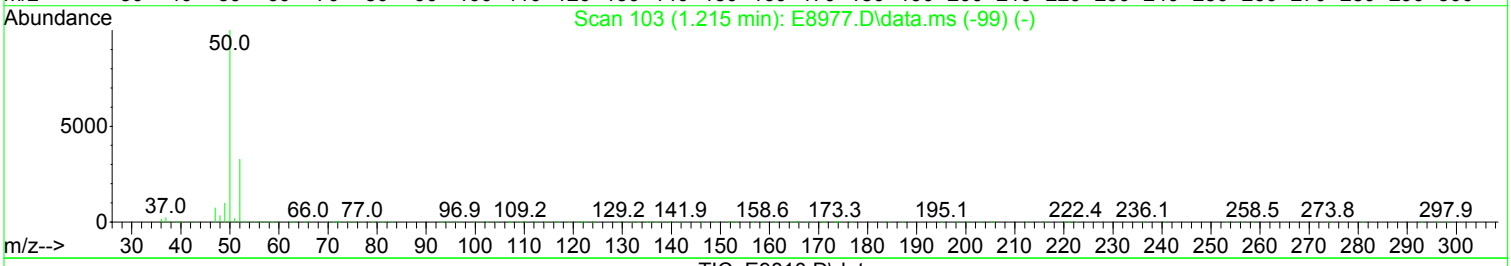
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9810.D
Acq On : 15 Feb 2024 02:19 pm
Operator : K.Ruest
Sample : 20ppb
Misc : WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 15 14:48:50 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9810.D\data.ms

(4) Chloromethane (P)

1.215min (-0.000) 15.95 ug/L

response 79557

Ion	Exp%	Act%
50.00	100.00	100.00
52.00	32.80	34.79
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

02/16/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9810.D
Acq On : 15 Feb 2024 02:19 pm
Operator : K.Ruest
Sample : 20ppb
Misc : WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 15 14:48:50 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.086	168	455379	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.244	114	672384	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.616	117	589321	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	11.682	152	295332	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.921	113	79281	18.23	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 36.46%#				
48) surr1,1,2-dichloroetha...	5.501	65	95694	21.20	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 42.40%#				
65) SURR3,Toluene-d8	8.104	98	290264	18.18	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 36.36%#				
70) SURR2,BFB	10.707	95	106667	18.53	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 37.06%#				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.099	51	82970	18.253	ug/L		98
3) Dichlorodifluoromethane	1.093	85	107051m	19.690	ug/L		
4) Chloromethane	1.215	50	84949m	17.030	ug/L		
5) Vinyl Chloride	1.288	62	85051	15.301	ug/L		98
6) Bromomethane	1.501	94	50322	18.445	ug/L		93
7) Chloroethane	1.568	64	56960	16.029	ug/L		100
8) Freon 21	1.709	67	127582	17.525	ug/L		98
9) Trichlorofluoromethane	1.751	101	113072	17.552	ug/L		97
10) Diethyl Ether	1.971	59	67106	18.165	ug/L		96
11) Freon 123a	1.977	67	71927	15.976	ug/L		96
12) Freon 123	2.026	83	93612	16.882	ug/L		98
13) Acrolein	2.068	56	86559	90.422	ug/L		98
14) 1,1-Diclethene	2.148	96	61529	15.280	ug/L		94
15) Freon 113	2.154	101	63466	15.207	ug/L		98
16) Acetone	2.190	43	41311	19.403	ug/L		87
17) 2-Propanol	2.318	45	136250	365.696	ug/L		96
18) Iodomethane	2.269	142	116820	18.553	ug/L		94
19) Carbon Disulfide	2.324	76	197257	16.564	ug/L		98
20) Acetonitrile	2.446	41	77659m	85.157	ug/L		
21) Allyl Chloride	2.458	76	36710	15.896	ug/L	#	89
22) Methyl Acetate	2.483	43	100319	18.365	ug/L		99
23) Methylene Chloride	2.568	84	68886	15.392	ug/L		93
24) TBA	2.696	59	234230	373.053	ug/L		94
25) Acrylonitrile	2.812	53	189252	86.944	ug/L		98
26) Methyl-t-Butyl Ether	2.849	73	233815	18.238	ug/L		99
27) trans-1,2-Dichloroethene	2.843	96	67246	15.684	ug/L		95
28) 1,1-Diclethane	3.312	63	119969	16.431	ug/L		97
29) Vinyl Acetate	3.397	86	11463	16.278	ug/L	#	92
30) DIPE	3.422	45	237849	17.177	ug/L		97
31) 2-Chloro-1,3-Butadiene	3.422	53	135070	20.345	ug/L		89
32) ETBE	3.922	59	234050	17.681	ug/L		96
33) 2,2-Dichloropropane	4.086	77	103250	16.683	ug/L		98
34) cis-1,2-Dichloroethene	4.092	96	77069	15.707	ug/L		88
35) 2-Butanone	4.159	43	50401	17.057	ug/L		99
36) Propionitrile	4.233	54	76687	86.970	ug/L		96
37) Bromochloromethane	4.464	130	53804	17.013	ug/L		98
38) Methacrylonitrile	4.483	67	36813	16.276	ug/L	#	80
39) Tetrahydrofuran	4.568	42	30679	17.537	ug/L		98
40) Chloroform	4.635	83	127150	17.135	ug/L		98

1st 02/16/24
2nd 02/16/24

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9810.D
Acq On : 15 Feb 2024 02:19 pm
Operator : K.Ruest
Sample : 20ppb
Misc : WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 15 14:48:50 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 1,1,1-Trichloroethane	4.921	97	111773	17.037	ug/L		98
42) TAME	5.842	73	214626	16.807	ug/L		97
44) Cyclohexane	5.013	41	71620	18.281	ug/L		96
46) Carbontetrachloride	5.214	117	93940	15.838	ug/L		98
47) 1,1-Dichloropropene	5.238	75	85228	16.178	ug/L		97
49) Benzene	5.574	78	251542	16.498	ug/L		94
50) 1,2-Dichloroethane	5.629	62	113784	21.278	ug/L		93
51) Iso-Butyl Alcohol	5.635	43	80803	463.010	ug/L		96
52) n-Heptane	6.098	43	96051	15.781	ug/L		97
53) 1-Butanol	6.647	56	125674	1258.284	ug/L		100
54) Trichloroethene	6.574	130	77663	16.851	ug/L		94
55) Methylcyclohexane	6.811	55	103784	18.740	ug/L		89
56) 1,2-Diclpropane	6.866	63	71498	16.954	ug/L		98
57) Dibromomethane	7.013	93	50504	17.658	ug/L		96
58) 1,4-Dioxane	7.092	88	24022	363.440	ug/L		97
59) Methyl Methacrylate	7.116	69	59119	17.110	ug/L	#	81
60) Bromodichloromethane	7.250	83	98882	17.646	ug/L		99
61) 2-Nitropropane	7.555	41	56938	38.878	ug/L		96
62) 2-Chloroethylvinyl Ether	7.677	63	24211	8.914	ug/L		98
63) cis-1,3-Dichloropropene	7.805	75	114432	17.124	ug/L		98
64) 4-Methyl-2-pentanone	8.031	43	99663	19.493	ug/L		97
66) Toluene	8.177	91	280974	16.662	ug/L		98
67) trans-1,3-Dichloropropene	8.463	75	107853	17.084	ug/L		98
68) Ethyl Methacrylate	8.610	69	107429	17.511	ug/L		91
69) 1,1,2-Trichloroethane	8.652	97	73402	17.897	ug/L		98
72) Tetrachloroethene	8.774	164	59095	16.981	ug/L		96
73) 2-Hexanone	8.957	43	73597	19.221	ug/L		97
74) 1,3-Dichloropropane	8.823	76	118166	18.311	ug/L		93
75) Dibromochloromethane	9.049	129	87218	17.259	ug/L		97
76) N-Butyl Acetate	9.116	43	150081	18.931	ug/L		98
77) 1,2-Dibromoethane	9.146	107	79964	18.902	ug/L		99
78) 3-Chlorobenzotrifluoride	9.677	180	117661	18.750	ug/L		98
79) Chlorobenzene	9.646	112	199953	17.523	ug/L		93
80) 4-Chlorobenzotrifluoride	9.732	180	105673	18.878	ug/L		95
81) 1,1,1,2-Tetrachloroethane	9.738	131	80880	17.483	ug/L		96
82) Ethylbenzene	9.768	106	101055	16.658	ug/L		96
83) (m+p)Xylene	9.884	106	249141	34.415	ug/L		94
84) o-Xylene	10.244	106	125064	17.659	ug/L		97
85) Styrene	10.256	104	212581	17.317	ug/L		93
86) Bromoform	10.408	173	57270	17.364	ug/L		95
87) 2-Chlorobenzotrifluoride	10.494	180	113460	19.093	ug/L		98
88) Isopropylbenzene	10.579	105	313290	16.905	ug/L		97
89) Cyclohexanone	10.646	55	369587	374.057	ug/L		96
90) trans-1,4-Dichloro-2-B...	10.896	53	33534	18.622	ug/L		80
92) 1,1,2,2-Tetrachloroethane	10.853	83	101256	16.834	ug/L		98
93) Bromobenzene	10.823	156	91498	18.195	ug/L		99
94) 1,2,3-Trichloropropane	10.878	110	35671	17.744	ug/L		98
95) n-Propylbenzene	10.939	91	353252	18.302	ug/L		98
96) 2-Chlorotoluene	11.000	91	221696	17.224	ug/L		98
97) 3-Chlorotoluene	11.055	91	247131	18.226	ug/L		98
98) 4-Chlorotoluene	11.097	91	264826	17.410	ug/L		100
99) 1,3,5-Trimethylbenzene	11.097	105	270356	16.929	ug/L		97
100) tert-Butylbenzene	11.365	119	231138	16.251	ug/L		99
101) 1,2,4-Trimethylbenzene	11.408	105	272664	17.027	ug/L		97
102) 3,4-Dichlorobenzotrifl...	11.475	214	88414	18.939	ug/L		98
103) sec-Butylbenzene	11.548	105	327716	16.192	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9810.D
Acq On : 15 Feb 2024 02:19 pm
Operator : K.Ruest
Sample : 20ppb
Misc : WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 15 14:48:50 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration

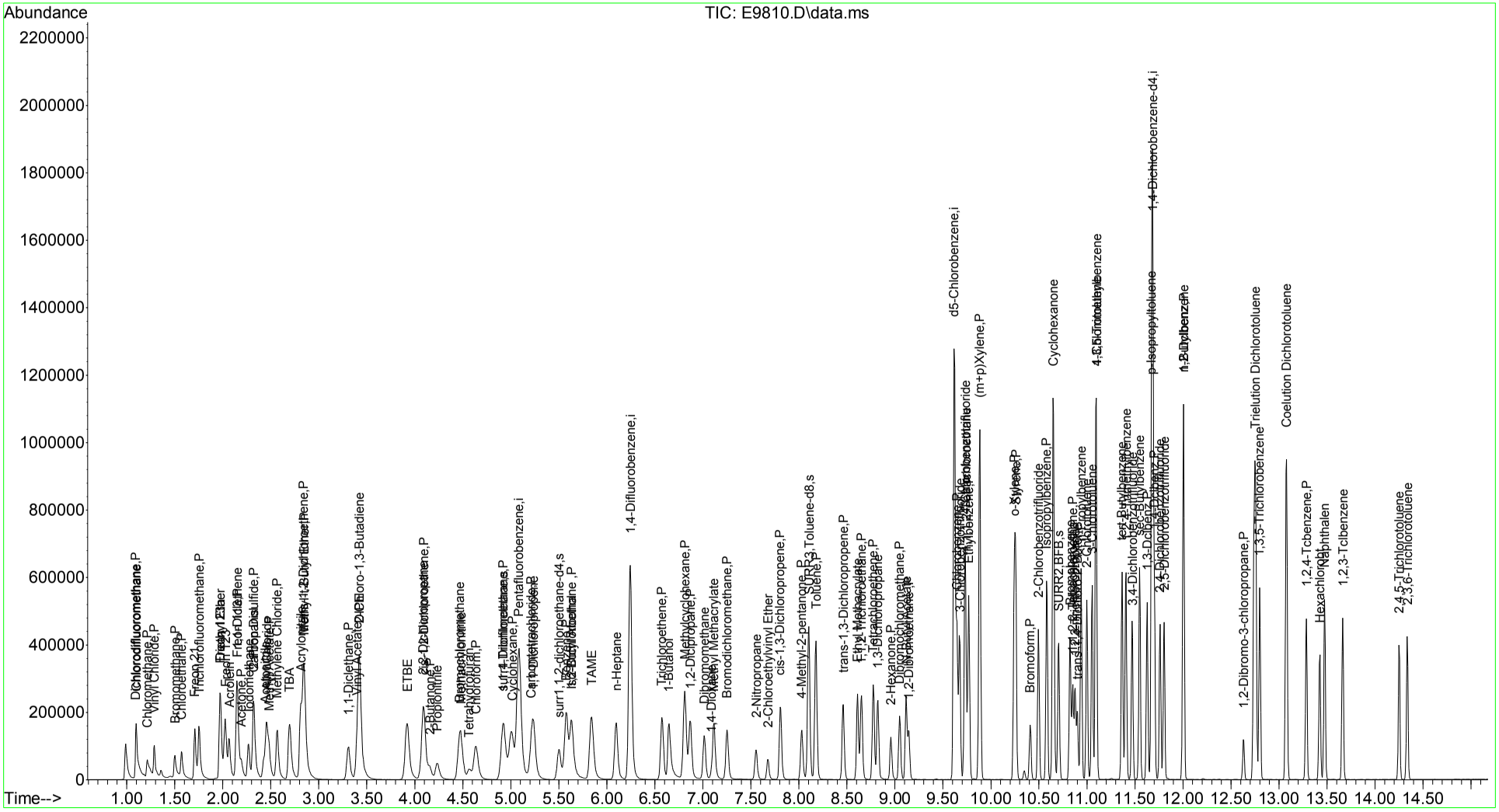
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) p-Isopropyltoluene	11.670	119	295664	16.941	ug/L	96
105) 1,3-Dclbenz	11.628	146	165846	17.505	ug/L	99
106) 1,4-Dclbenz	11.701	146	169758	17.891	ug/L	99
107) 2,4-Dichlorobenzotrifl...	11.762	214	80178	19.550	ug/L	96
108) 2,5-Dichlorobenzotrifl...	11.804	214	90340	19.763	ug/L	95
109) n-Butylbenzene	12.006	91	239771	15.646	ug/L	98
110) 1,2-Dclbenz	12.006	146	167003	18.233	ug/L	99
111) 1,2-Dibromo-3-chloropr...	12.633	157	25090	16.333	ug/L	95
112) Trielution Dichlorotol...	12.749	125	468077	55.421	ug/L	98
113) 1,3,5-Trichlorobenzene	12.798	180	126597	19.072	ug/L	97
114) Coelution Dichlorotoluene	13.079	125	334184	37.985	ug/L	97
115) 1,2,4-Tcbenzene	13.286	180	110816	18.276	ug/L	99
116) Hexachlorobt	13.426	225	52916	17.849	ug/L	94
117) Naphthalen	13.475	128	316945	18.276	ug/L	99
118) 1,2,3-Tclbenzene	13.664	180	107210	18.897	ug/L	99
119) 2,4,5-Trichlorotoluene	14.249	159	84671	19.290	ug/L	98
120) 2,3,6-Trichlorotoluene	14.334	159	81221	18.343	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9810.D
Acq On : 15 Feb 2024 02:19 pm
Operator : K.Ruest
Sample : 20ppb
Misc : WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 15 14:48:50 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration

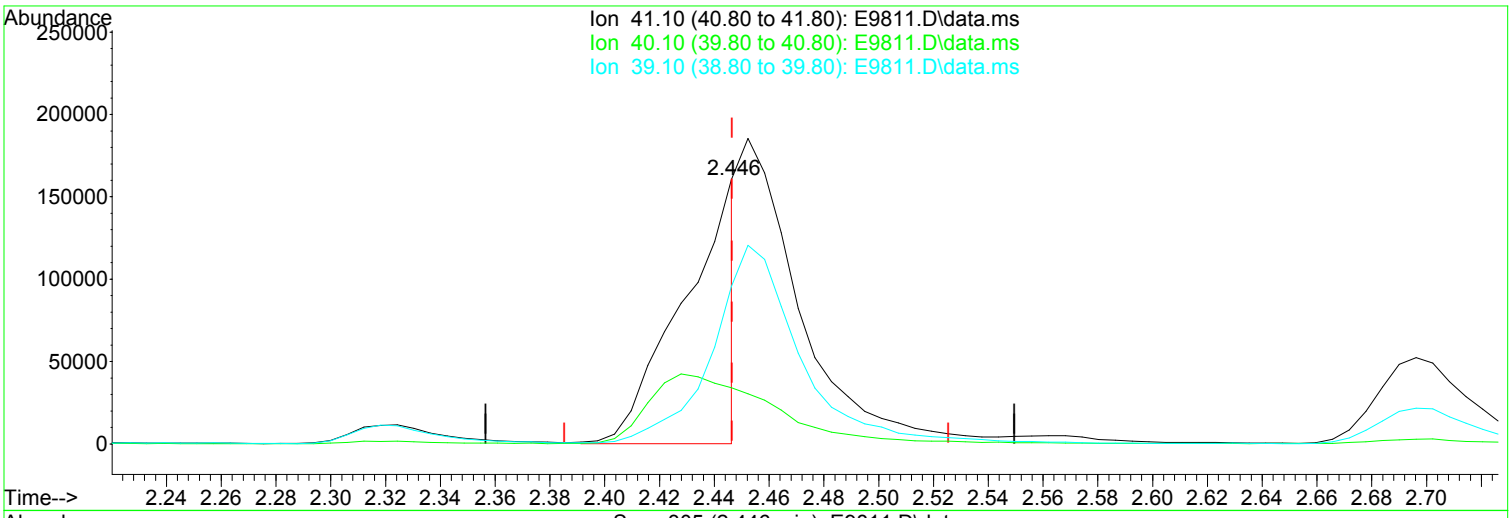


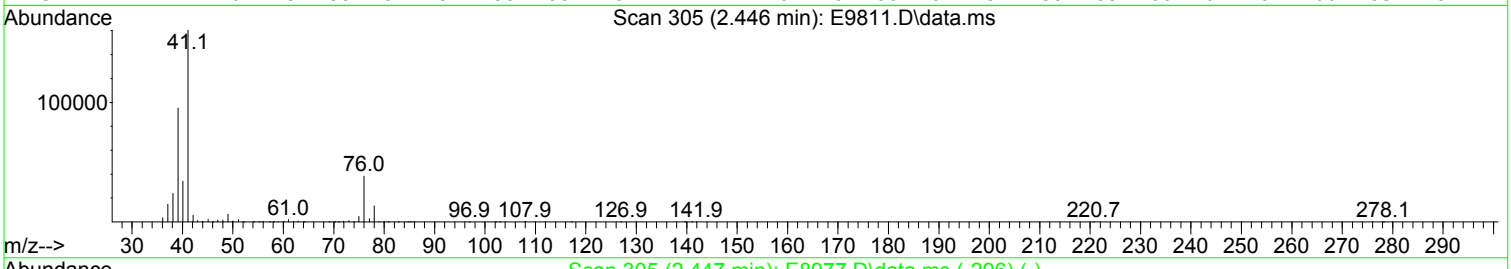
1st 02/16/24
2nd 02/16/24

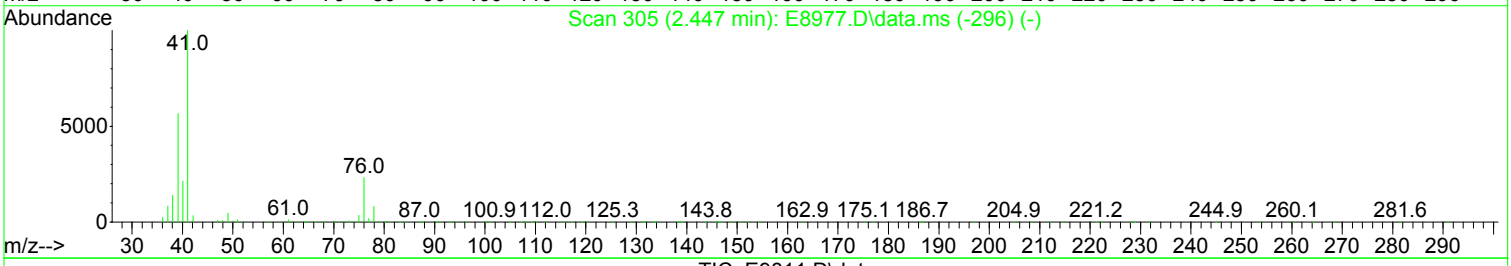
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9811.D
Acq On : 15 Feb 2024 02:42 pm
Operator : K.Ruest
Sample : 50ppb
Misc : WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 15 14:58:56 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9811.D\data.ms

(20) Acetonitrile

2.446min (-0.000) 240.73 ug/L m

response 223222

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	21.50	21.23
39.10	57.00	59.52
0.00	0.00	0.00

Manual Integration:

After

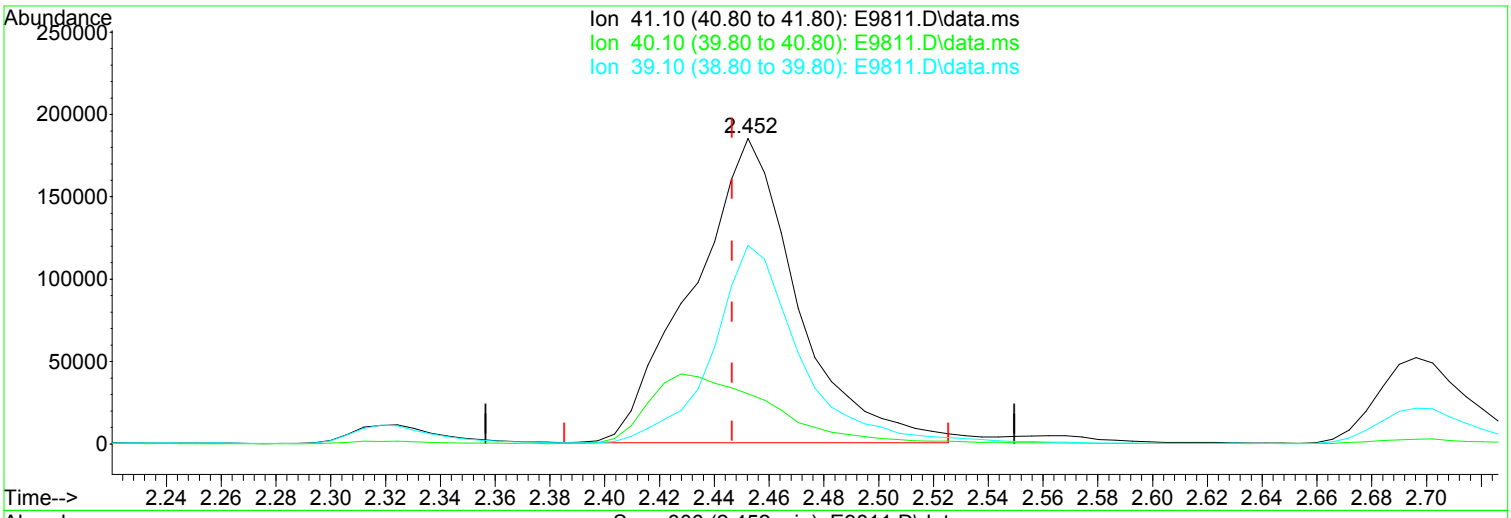
Poor integration.

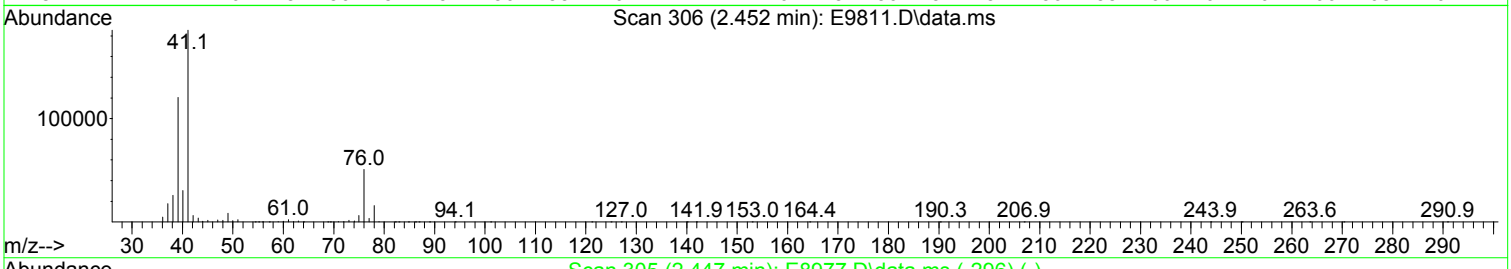
02/16/24

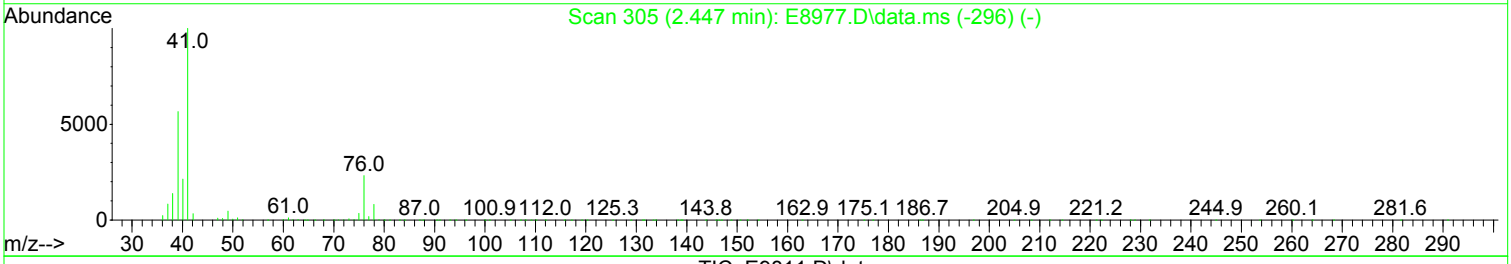
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9811.D
Acq On : 15 Feb 2024 02:42 pm
Operator : K.Ruest
Sample : 50ppb
Misc : WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 15 14:58:56 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9811.D\data.ms

(20) Acetonitrile

2.452min (+ 0.006) 530.19 ug/L

response 491629

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	21.50	16.44
39.10	57.00	64.95
0.00	0.00	0.00

Manual Integration:

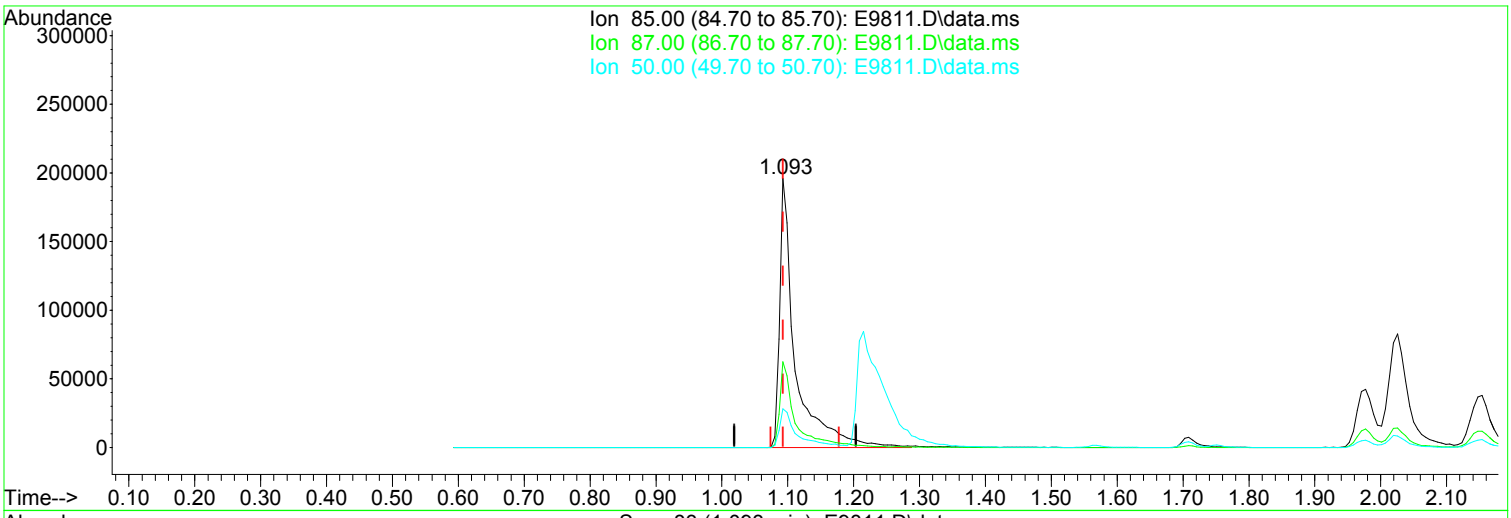
Before

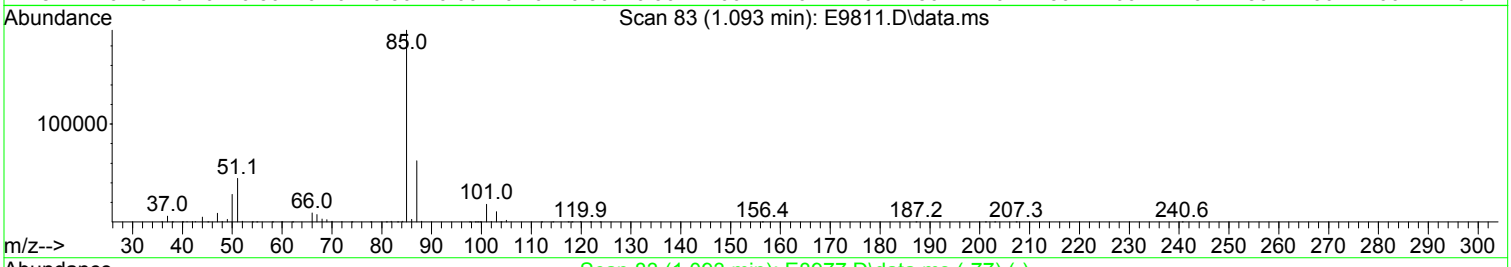
02/16/24

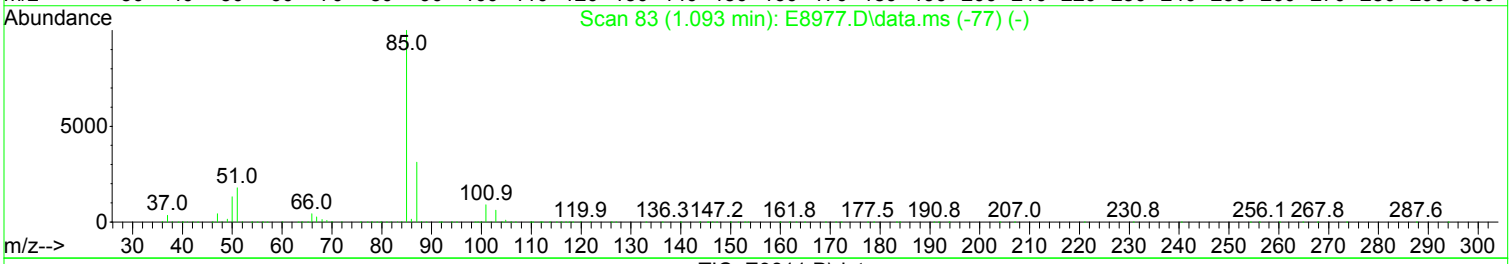
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9811.D
Acq On : 15 Feb 2024 02:42 pm
Operator : K.Ruest
Sample : 50ppb
Misc : WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 15 14:58:56 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9811.D\data.ms

(3) Dichlorodifluoromethane (P)

1.093min (-0.000) 58.48 ug/L m

response 323283

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.10	31.90
50.00	13.20	14.40
0.00	0.00	0.00

Manual Integration:

After

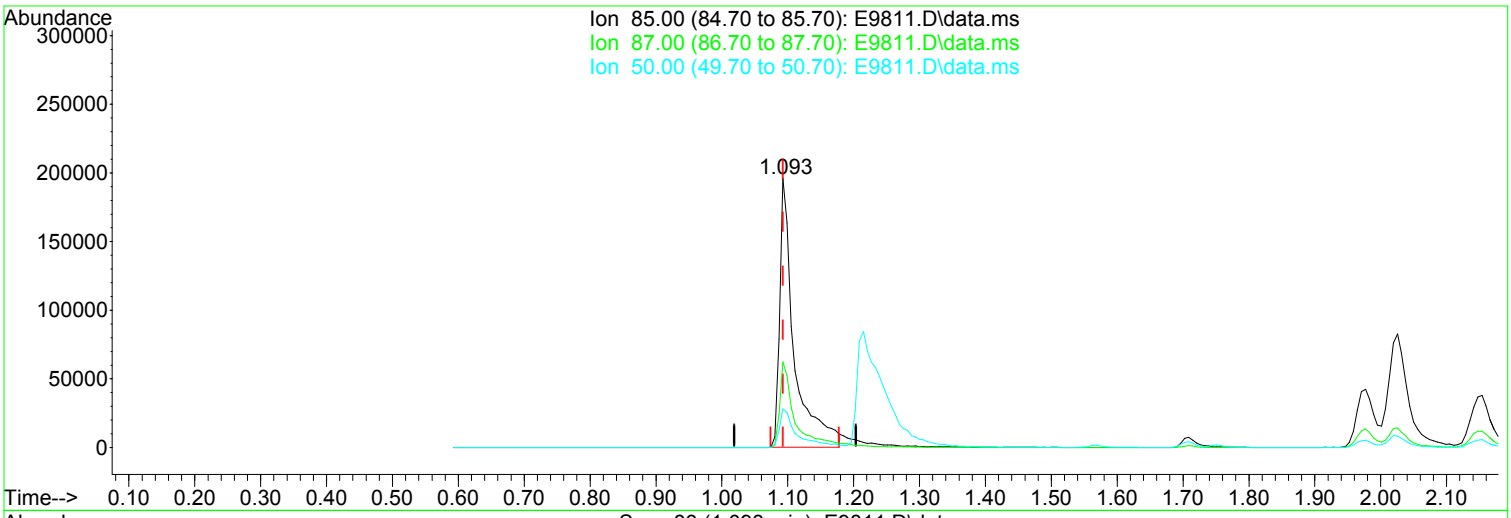
Poor integration.

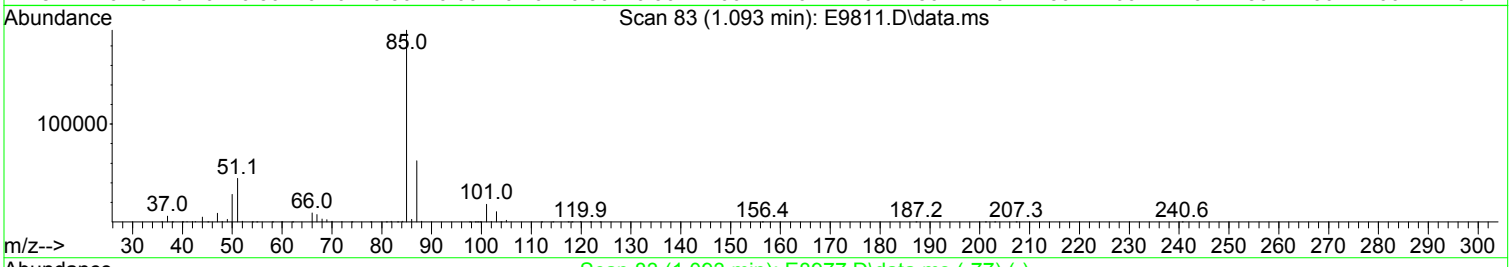
02/16/24

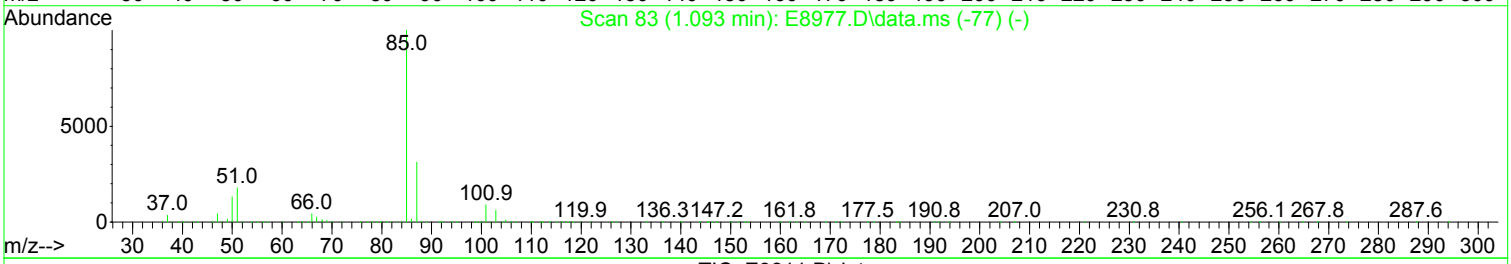
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9811.D
Acq On : 15 Feb 2024 02:42 pm
Operator : K.Ruest
Sample : 50ppb
Misc : WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 15 14:58:56 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration







TIC: E9811.D\data.ms

(3) Dichlorodifluoromethane (P)

1.093min (-0.000) 54.33 ug/L

response 300366

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.10	31.90
50.00	13.20	14.40
0.00	0.00	0.00

Manual Integration:

Before

02/16/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9811.D
Acq On : 15 Feb 2024 02:42 pm
Operator : K.Ruest
Sample : 50ppb
Misc : WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 15 14:58:56 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.086	168	463030	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.244	114	682500	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.616	117	622737	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	11.682	152	323932	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.921	113	229967	52.11	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 104.22%				
48) surr1,1,2-dichloroetha...	5.501	65	275619	60.16	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 120.32%				
65) SURR3,Toluene-d8	8.104	98	821387	50.69	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.38%				
70) SURR2,BFB	10.707	95	308392	52.79	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 105.58%				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.099	51	215825	46.695	ug/L		98
3) Dichlorodifluoromethane	1.093	85	323283m	58.479	ug/L		
4) Chloromethane	1.215	50	230998	45.545	ug/L		98
5) Vinyl Chloride	1.288	62	246919	43.688	ug/L		98
6) Bromomethane	1.495	94	131709	47.479	ug/L		98
7) Chloroethane	1.568	64	162412	44.948	ug/L		98
8) Freon 21	1.709	67	330114	44.595	ug/L		98
9) Trichlorofluoromethane	1.751	101	338038	51.605	ug/L		99
10) Diethyl Ether	1.971	59	177579	47.274	ug/L		96
11) Freon 123a	1.977	67	190061	41.518	ug/L		98
12) Freon 123	2.026	83	250922	44.504	ug/L		99
13) Acrolein	2.068	56	226292	232.486	ug/L		100
14) 1,1-Diclethene	2.141	96	182159	44.489	ug/L		93
15) Freon 113	2.147	101	195563	46.084	ug/L		98
16) Acetone	2.190	43	106860	49.361	ug/L		96
17) 2-Propanol	2.318	45	358486	946.281	ug/L		95
18) Iodomethane	2.263	142	312987	48.887	ug/L		95
19) Carbon Disulfide	2.324	76	513155	42.379	ug/L		100
20) Acetonitrile	2.446	41	223222m	240.730	ug/L		
21) Allyl Chloride	2.452	76	104252	44.397	ug/L	#	75
22) Methyl Acetate	2.477	43	268146	48.278	ug/L		96
23) Methylene Chloride	2.568	84	188836	41.495	ug/L		95
24) TBA	2.696	59	633682	992.574	ug/L		95
25) Acrylonitrile	2.812	53	509127	230.031	ug/L		99
26) Methyl-t-Butyl Ether	2.849	73	615576	47.224	ug/L		98
27) trans-1,2-Dichloroethene	2.836	96	193958	44.489	ug/L		94
28) 1,1-Diclethane	3.306	63	349047	47.014	ug/L		98
29) Vinyl Acetate	3.397	86	29038	40.553	ug/L	#	73
30) DIPE	3.422	45	633961	45.027	ug/L		100
31) 2-Chloro-1,3-Butadiene	3.422	53	341376	50.571	ug/L		91
32) ETBE	3.915	59	622173	46.224	ug/L		95
33) 2,2-Dichloropropane	4.080	77	307163	48.811	ug/L		96
34) cis-1,2-Dichloroethene	4.092	96	217404	43.577	ug/L		89
35) 2-Butanone	4.153	43	135506	45.101	ug/L		95
36) Propionitrile	4.232	54	206074	229.844	ug/L		98
37) Bromochloromethane	4.464	130	148976	46.328	ug/L		99
38) Methacrylonitrile	4.482	67	99869	43.426	ug/L		92
39) Tetrahydrofuran	4.562	42	83350	46.857	ug/L		98
40) Chloroform	4.635	83	348449	46.182	ug/L		99

1st 02/16/24
2nd 02/16/24

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9811.D
Acq On : 15 Feb 2024 02:42 pm
Operator : K.Ruest
Sample : 50ppb
Misc : WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 15 14:58:56 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-Trichloroethane	4.915	97	334024	50.073	ug/L	98
42) TAME	5.836	73	561271	43.225	ug/L	96
44) Cyclohexane	5.007	41	186697	46.948	ug/L	99
46) Carbontetrachloride	5.220	117	295334	49.053	ug/L	98
47) 1,1-Dichloropropene	5.232	75	255666	47.812	ug/L	97
49) Benzene	5.574	78	731482	47.265	ug/L	96
50) 1,2-Dichloroethane	5.629	62	301529	55.552	ug/L	94
51) Iso-Butyl Alcohol	5.635	43	235415	1328.960	ug/L	90
52) n-Heptane	6.098	43	296558	48.001	ug/L	97
53) 1-Butanol	6.647	56	372412	3673.429	ug/L	100
54) Trichloroethene	6.574	130	224229	47.930	ug/L	97
55) Methylcyclohexane	6.811	55	268745	47.807	ug/L	92
56) 1,2-Diclpropane	6.866	63	193945	45.307	ug/L	99
57) Dibromomethane	7.012	93	135083	46.529	ug/L	90
58) 1,4-Dioxane	7.092	88	66961	998.069	ug/L	99
59) Methyl Methacrylate	7.116	69	163092	46.503	ug/L	90
60) Bromodichloromethane	7.250	83	274739	48.302	ug/L	100
61) 2-Nitropropane	7.555	41	150077	100.955	ug/L	98
62) 2-Chloroethylvinyl Ether	7.677	63	71475	25.927	ug/L	100
63) cis-1,3-Dichloropropene	7.805	75	316551	46.668	ug/L	100
64) 4-Methyl-2-pentanone	8.031	43	259186	49.942	ug/L	97
66) Toluene	8.177	91	815893	47.666	ug/L	99
67) trans-1,3-Dichloropropene	8.463	75	304205	47.471	ug/L	100
68) Ethyl Methacrylate	8.610	69	296984	47.692	ug/L	91
69) 1,1,2-Trichloroethane	8.652	97	198743	47.740	ug/L	97
72) Tetrachloroethene	8.774	164	180088	48.972	ug/L	96
73) 2-Hexanone	8.957	43	190734	47.139	ug/L	97
74) 1,3-Dichloropropane	8.823	76	311605	45.696	ug/L	96
75) Dibromochloromethane	9.049	129	247833	46.412	ug/L	98
76) N-Butyl Acetate	9.116	43	394343	47.072	ug/L	98
77) 1,2-Dibromoethane	9.146	107	207835	46.493	ug/L	100
78) 3-Chlorobenzotrifluoride	9.677	180	329754	49.729	ug/L	98
79) Chlorobenzene	9.646	112	560680	46.499	ug/L	96
80) 4-Chlorobenzotrifluoride	9.731	180	299230	50.588	ug/L	97
81) 1,1,1,2-Tetrachloroethane	9.738	131	227135	46.464	ug/L	98
82) Ethylbenzene	9.768	106	298867	46.622	ug/L	94
83) (m+p)Xylene	9.884	106	725736	94.871	ug/L	94
84) o-Xylene	10.244	106	354281	47.340	ug/L	92
85) Styrene	10.256	104	617999	47.641	ug/L	92
86) Bromoform	10.408	173	163432	46.893	ug/L	98
87) 2-Chlorobenzotrifluoride	10.494	180	320200	50.993	ug/L	99
88) Isopropylbenzene	10.579	105	935716	47.781	ug/L	97
89) Cyclohexanone	10.652	55	1027415	984.043	ug/L	99
90) trans-1,4-Dichloro-2-B...	10.902	53	92137	48.420	ug/L	90
92) 1,1,2,2-Tetrachloroethane	10.853	83	272764	41.343	ug/L	99
93) Bromobenzene	10.823	156	253654	45.988	ug/L	100
94) 1,2,3-Trichloropropane	10.878	110	96263	43.656	ug/L	93
95) n-Propylbenzene	10.939	91	1058793	49.749	ug/L	98
96) 2-Chlorotoluene	11.000	91	651390	46.140	ug/L	97
97) 3-Chlorotoluene	11.054	91	674364	45.343	ug/L	99
98) 4-Chlorotoluene	11.097	91	752763	45.119	ug/L	100
99) 1,3,5-Trimethylbenzene	11.097	105	803864	45.891	ug/L	100
100) tert-Butylbenzene	11.365	119	704516	45.161	ug/L	99
101) 1,2,4-Trimethylbenzene	11.408	105	807521	45.976	ug/L	97
102) 3,4-Dichlorobenzotrifl...	11.475	214	254423	49.689	ug/L	99
103) sec-Butylbenzene	11.548	105	1001867	45.130	ug/L	99

1st 02/16/24
2nd 02/16/24

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9811.D
Acq On : 15 Feb 2024 02:42 pm
Operator : K.Ruest
Sample : 50ppb
Misc : WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 15 14:58:56 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) p-Isopropyltoluene	11.676	119	886296	46.299	ug/L	100
105) 1,3-Dclbenz	11.627	146	478768	46.073	ug/L	99
106) 1,4-Dclbenz	11.701	146	483917	46.498	ug/L	99
107) 2,4-Dichlorobenzotrifl...	11.762	214	231433	51.449	ug/L	99
108) 2,5-Dichlorobenzotrifl...	11.804	214	250387	49.940	ug/L	96
109) n-Butylbenzene	12.005	91	765453	45.540	ug/L	100
110) 1,2-Dclbenz	12.005	146	465655	46.350	ug/L	99
111) 1,2-Dibromo-3-chloropr...	12.633	157	74693	44.329	ug/L	91
112) Trielution Dichlorotol...	12.755	125	1305833	140.961	ug/L	98
113) 1,3,5-Trichlorobenzene	12.798	180	349324	47.981	ug/L	98
114) Coelution Dichlorotoluene	13.078	125	912777	94.591	ug/L	98
115) 1,2,4-Tcbenzene	13.286	180	330828	49.742	ug/L	97
116) Hexachlorobt	13.426	225	166001	51.050	ug/L	94
117) Naphthalen	13.475	128	909102	47.793	ug/L	99
118) 1,2,3-Tclbenzene	13.664	180	313754	50.420	ug/L	99
119) 2,4,5-Trichlorotoluene	14.249	159	245490	50.989	ug/L	98
120) 2,3,6-Trichlorotoluene	14.334	159	225967	46.526	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9811.D
Acq On : 15 Feb 2024 02:42 pm
Operator : K.Ruest
Sample : 50ppb
Misc : WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

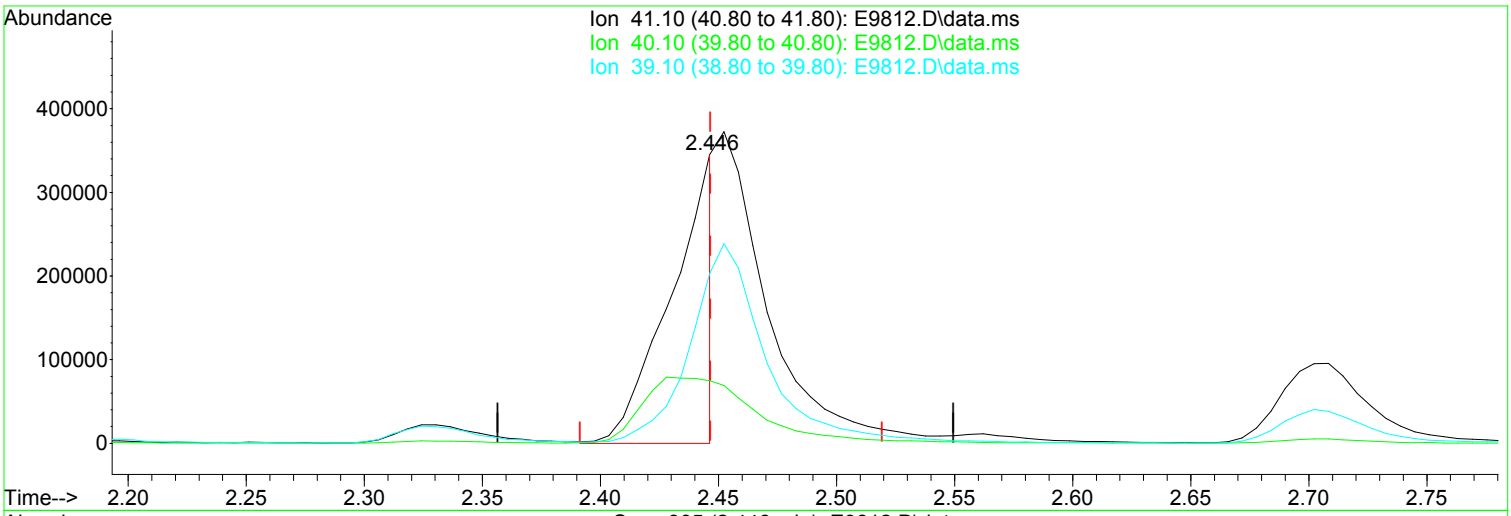
Quant Time: Feb 15 14:58:56 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Jan 04 14:47:51 2024
Response via : Initial Calibration

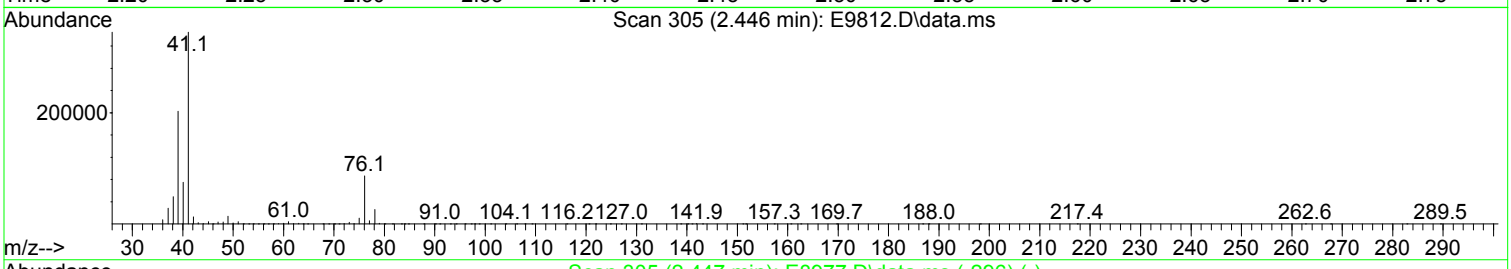
1st 02/16/24
2nd 02/16/24

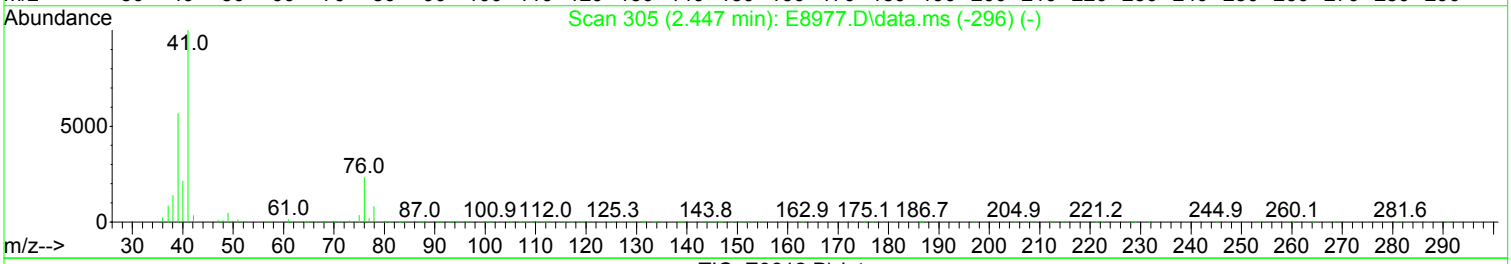
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9812.D
Acq On : 15 Feb 2024 03:05 pm
Operator : K.Ruest
Sample : 100ppb
Misc : WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 16 08:33:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Feb 15 15:03:57 2024
Response via : Initial Calibration







TIC: E9812.D\data.ms

(20) Acetonitrile

2.446min (-0.000) 230.80 ug/L m

response 445630

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	21.50	21.72
39.10	57.00	58.75
0.00	0.00	0.00

Manual Integration:

After

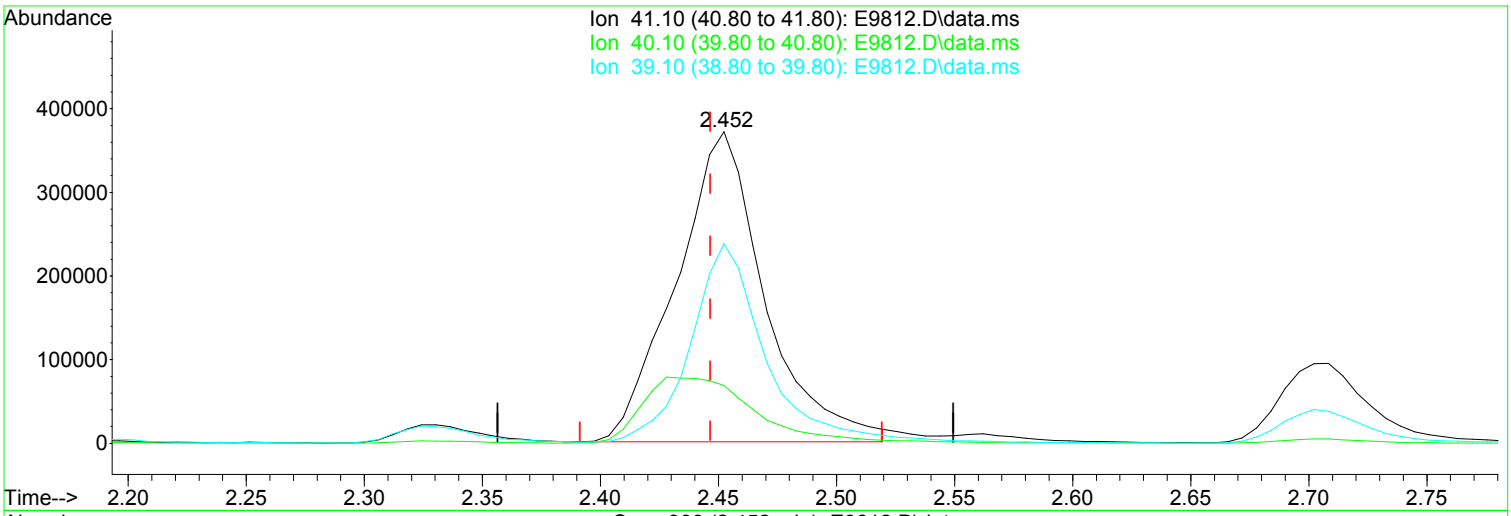
Poor integration.

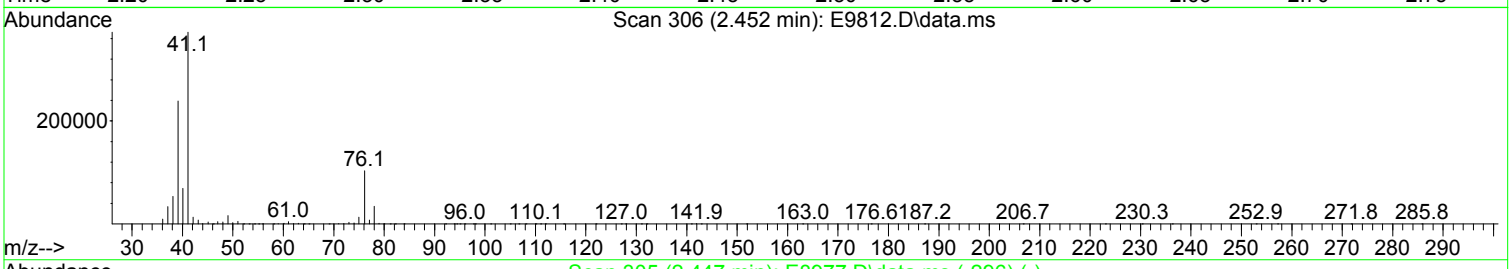
02/16/24

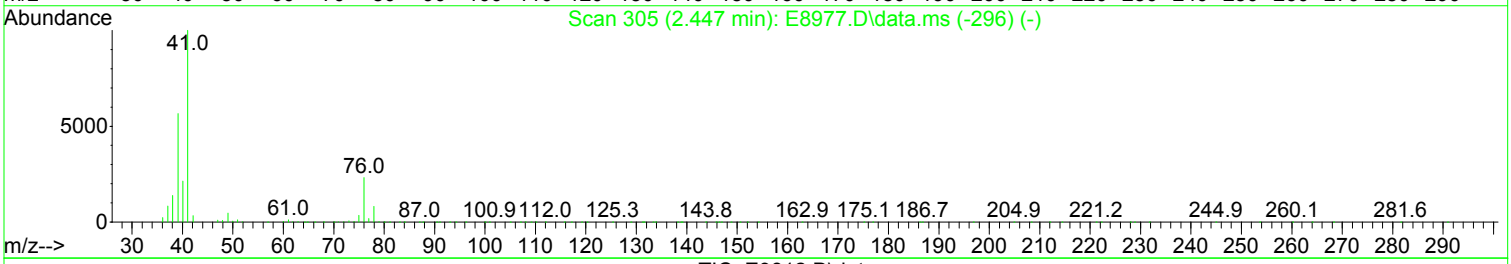
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9812.D
Acq On : 15 Feb 2024 03:05 pm
Operator : K.Ruest
Sample : 100ppb
Misc : WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 16 08:33:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Feb 15 15:03:57 2024
Response via : Initial Calibration







TIC: E9812.D\data.ms

(20) Acetonitrile

2.452min (+ 0.006) 500.93 ug/L

response 967193

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	21.50	18.53
39.10	57.00	64.04
0.00	0.00	0.00

Manual Integration:

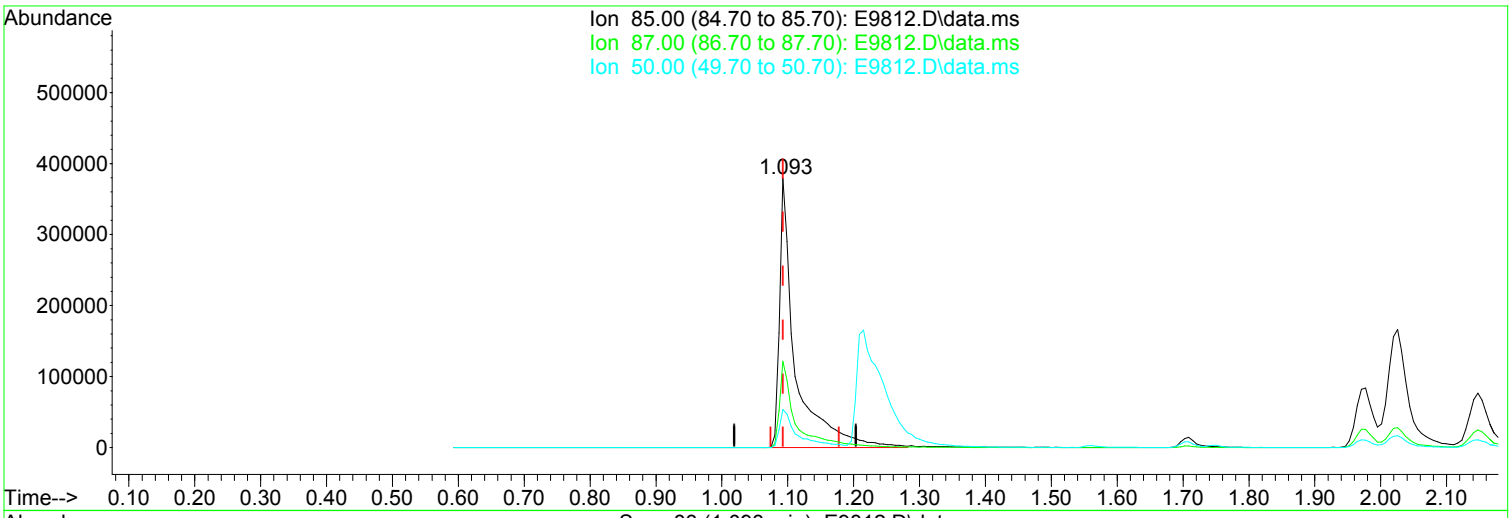
Before

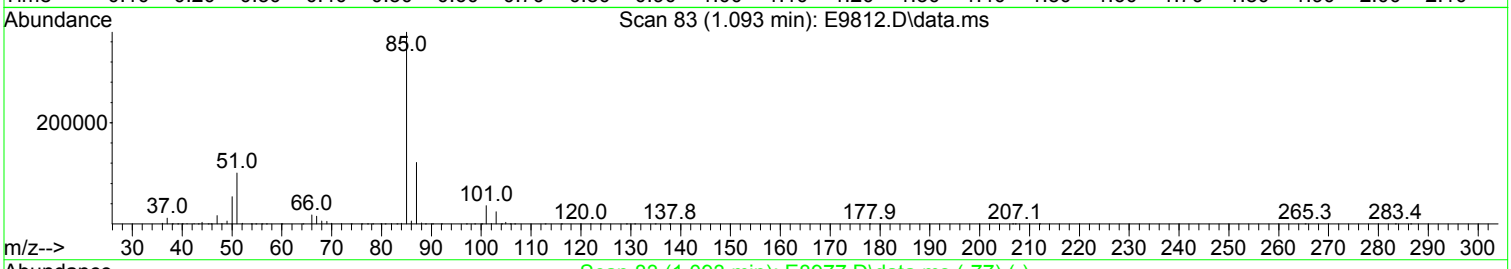
02/16/24

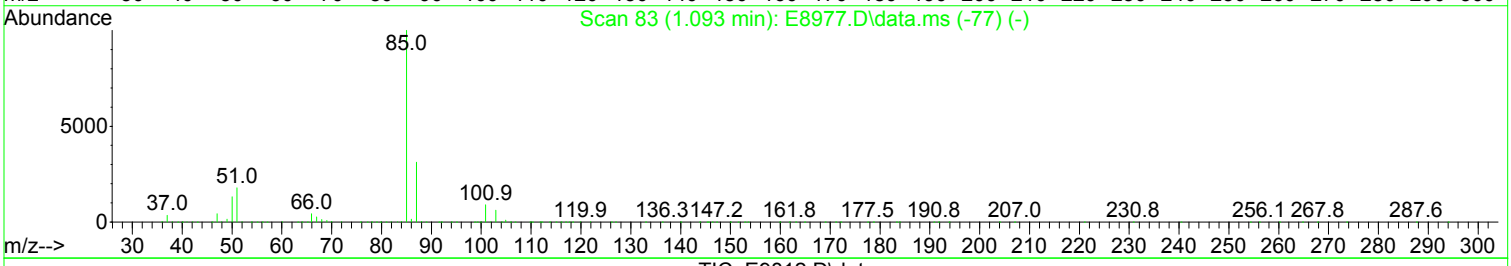
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9812.D
Acq On : 15 Feb 2024 03:05 pm
Operator : K.Ruest
Sample : 100ppb
Misc : WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 16 08:33:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Feb 15 15:03:57 2024
Response via : Initial Calibration







TIC: E9812.D\data.ms

(3) Dichlorodifluoromethane (P)

1.093min (-0.000) 129.03 ug/L m

response 631793

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.10	32.12
50.00	13.20	14.16
0.00	0.00	0.00

Manual Integration:

After

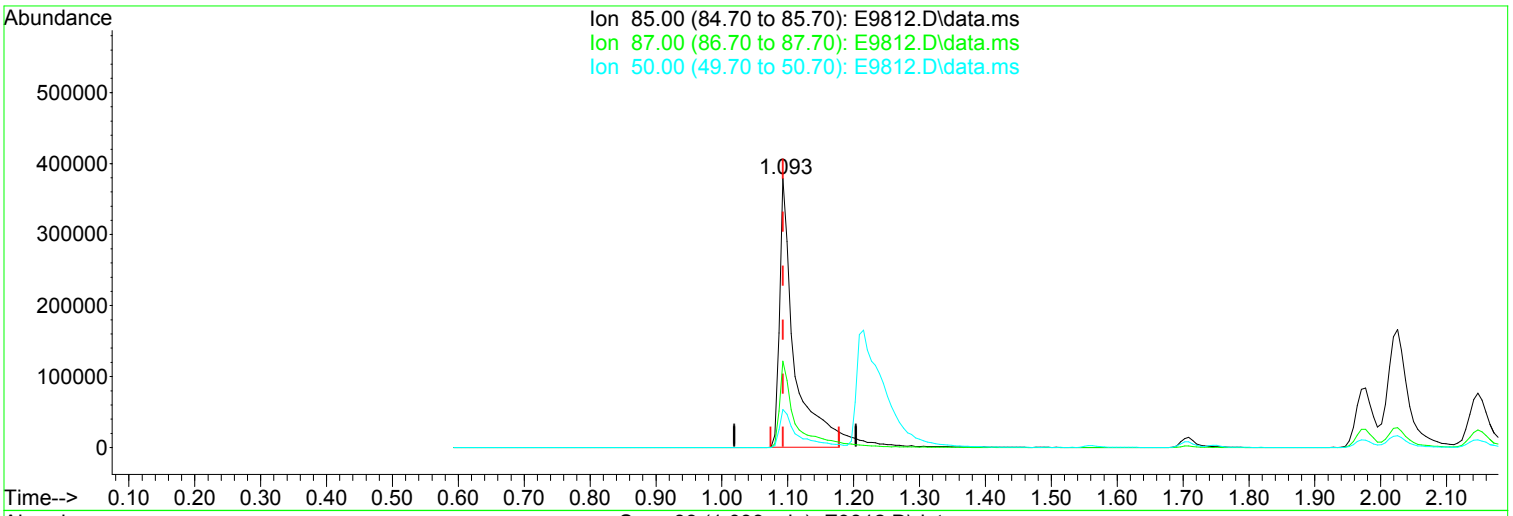
Poor integration.

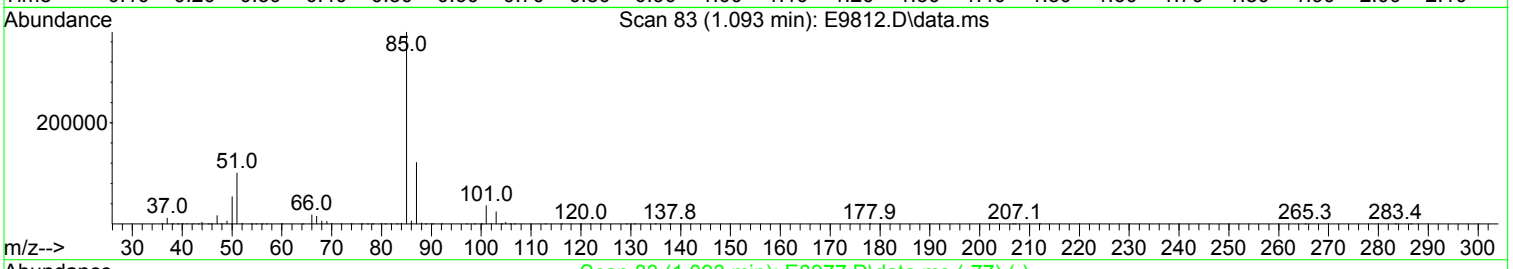
02/16/24

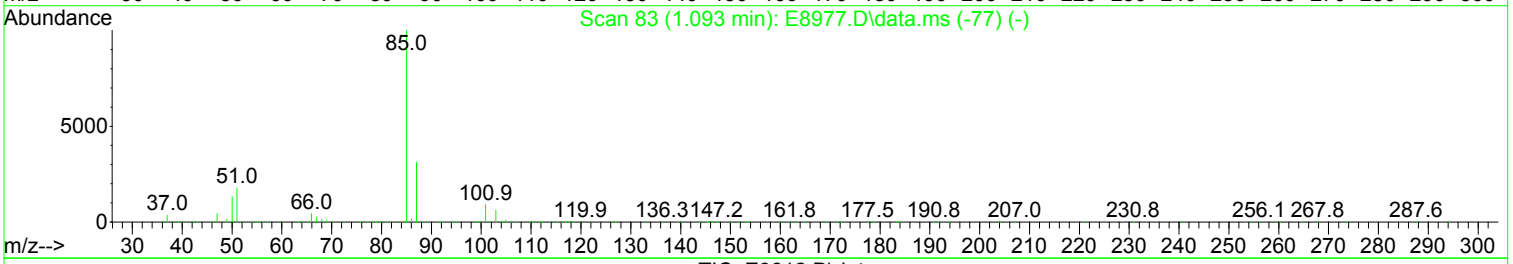
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9812.D
Acq On : 15 Feb 2024 03:05 pm
Operator : K.Ruest
Sample : 100ppb
Misc : WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 16 08:33:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Feb 15 15:03:57 2024
Response via : Initial Calibration







TIC: E9812.D\data.ms

(3) Dichlorodifluoromethane (P)

1.093min (-0.000) 118.68 ug/L

response 581110

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.10	32.12
50.00	13.20	14.16
0.00	0.00	0.00

Manual Integration:

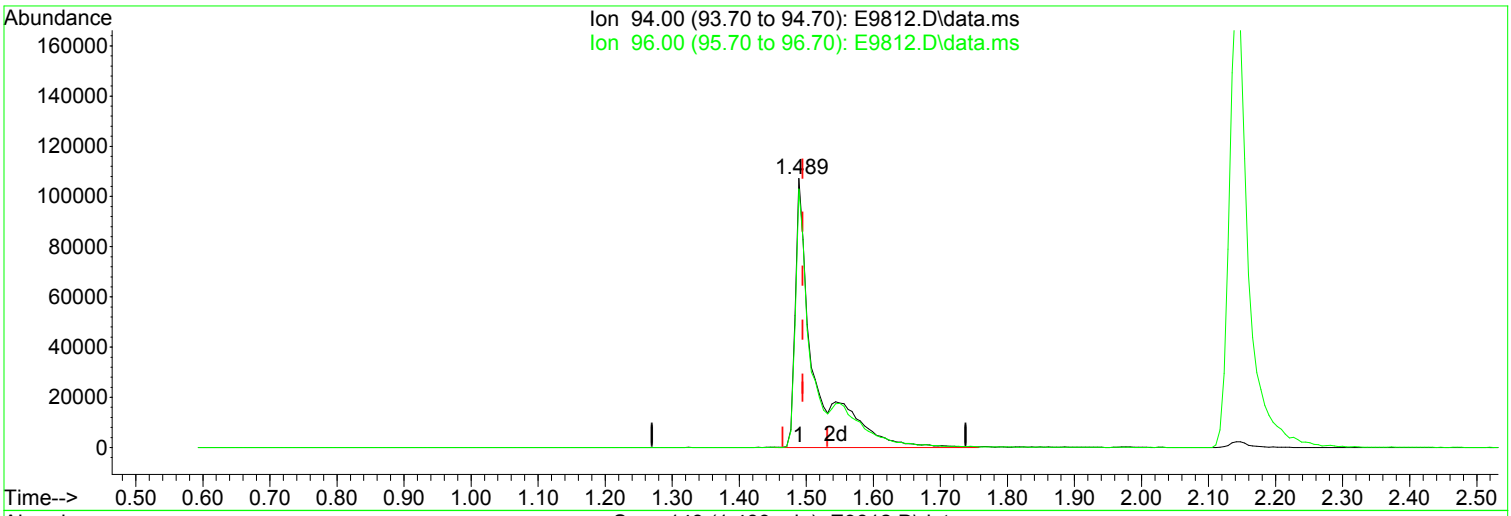
Before

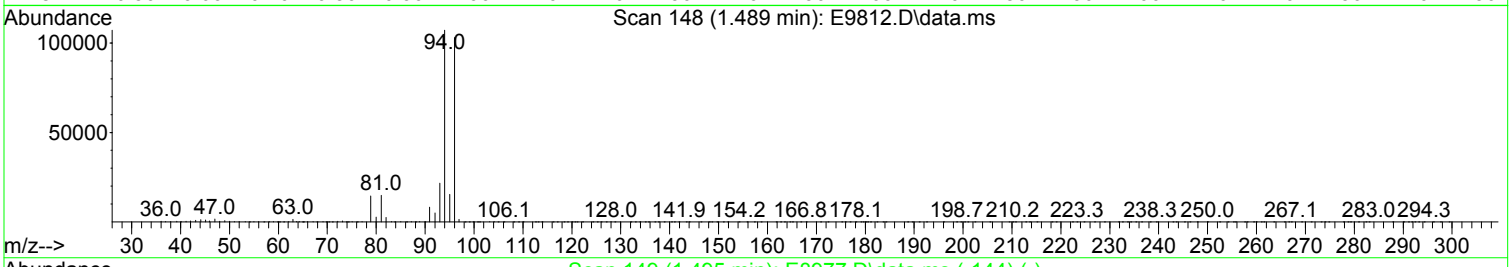
02/16/24

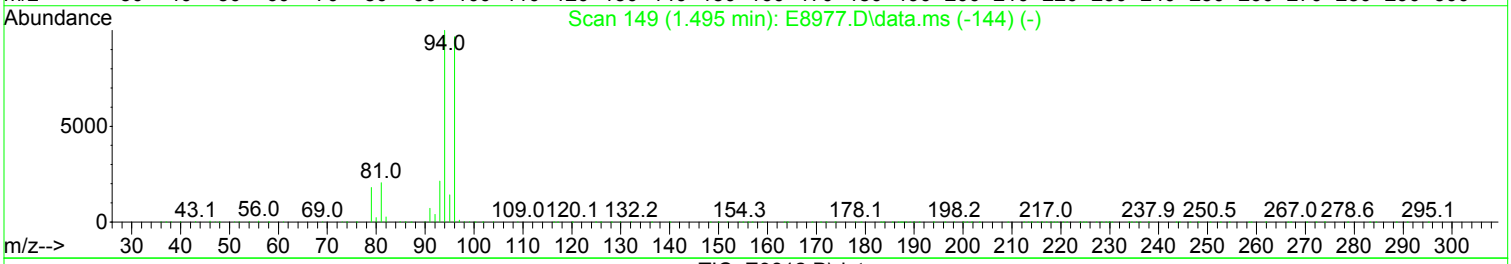
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9812.D
Acq On : 15 Feb 2024 03:05 pm
Operator : K.Ruest
Sample : 100ppb
Misc : WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 16 08:33:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Feb 15 15:03:57 2024
Response via : Initial Calibration







TIC: E9812.D\data.ms

(6) Bromomethane (P)

1.489min (-0.006) 80.14 ug/L m

response 216450

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	96.90	96.10
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

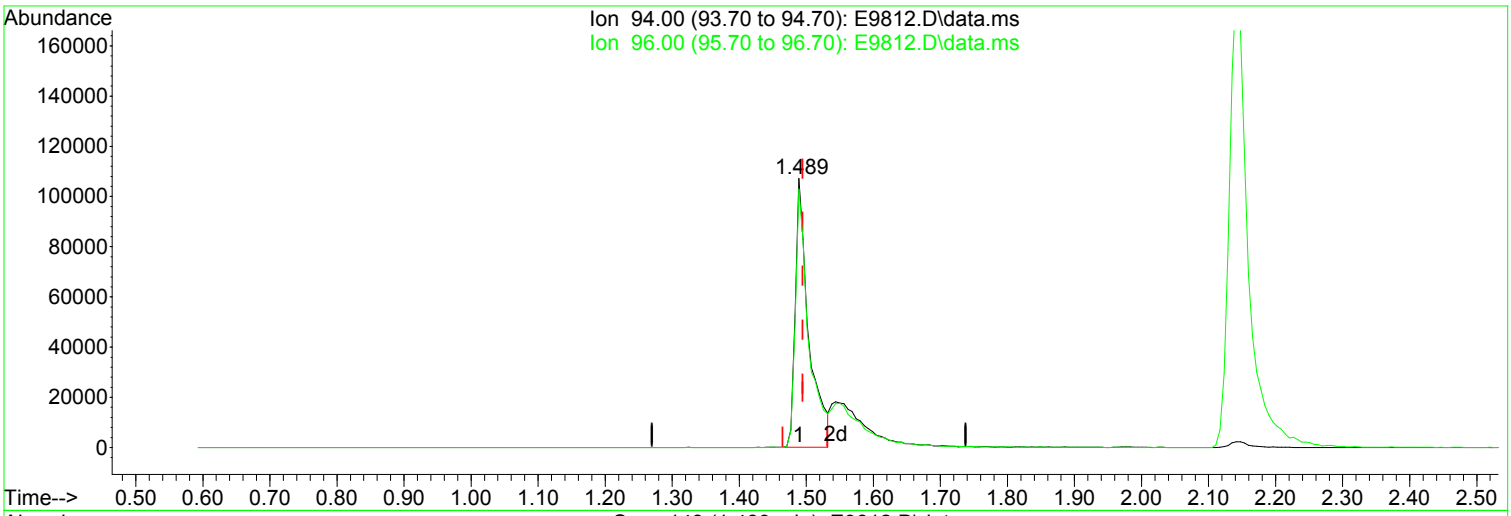
Split Peak.

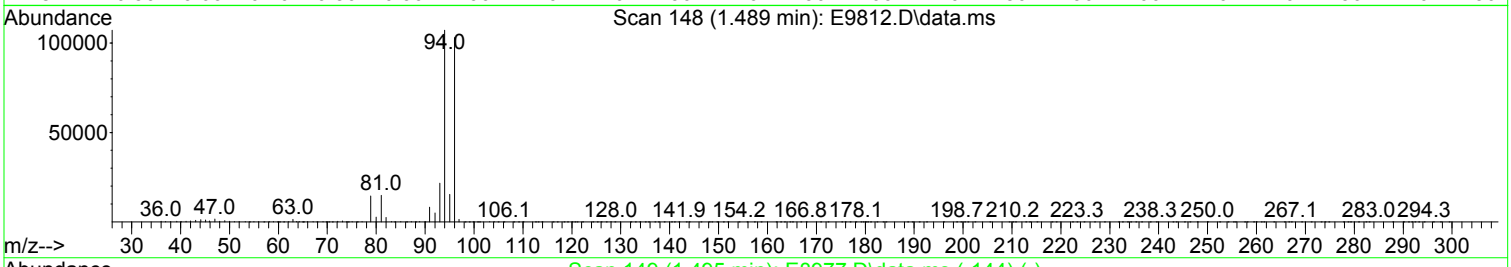
02/16/24

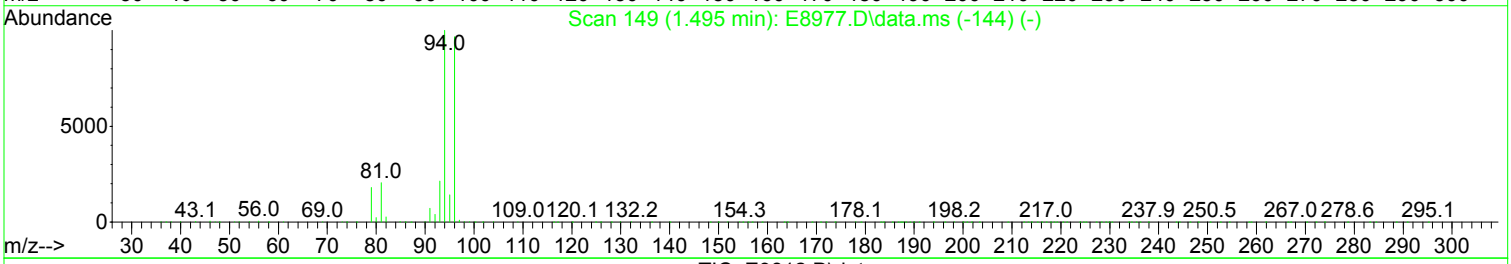
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9812.D
Acq On : 15 Feb 2024 03:05 pm
Operator : K.Ruest
Sample : 100ppb
Misc : WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 16 08:33:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Feb 15 15:03:57 2024
Response via : Initial Calibration







TIC: E9812.D\data.ms

(6) Bromomethane (P)

1.489min (-0.006) 55.27 ug/L

response 149279

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	96.90	96.10
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

02/16/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9812.D
Acq On : 15 Feb 2024 03:05 pm
Operator : K.Ruest
Sample : 100ppb
Misc : WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 16 08:33:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Feb 15 15:03:57 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.080	168	465116	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.244	114	692602	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.622	117	633680	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	11.682	152	339113	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.921	113	457328	101.60	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 203.20%#				
48) surr1,1,2-dichloroetha...	5.501	65	539382	98.55	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 197.10%#				
65) SURR3,Toluene-d8	8.104	98	1623350	98.63	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 197.26%#				
70) SURR2,BFB	10.707	95	622734	99.80	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 199.60%#				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.099	51	433184	99.204	ug/L		98
3) Dichlorodifluoromethane	1.093	85	631793m	129.030	ug/L		
4) Chloromethane	1.215	50	452757	123.442	ug/L		100
5) Vinyl Chloride	1.288	62	485350	106.621	ug/L		99
6) Bromomethane	1.489	94	216450m	80.138	ug/L		
7) Chloroethane	1.562	64	310376	95.717	ug/L		99
8) Freon 21	1.702	67	662615	95.945	ug/L		98
9) Trichlorofluoromethane	1.745	101	667134	106.629	ug/L		99
10) Diethyl Ether	1.971	59	356105	75.211	ug/L		97
11) Freon 123a	1.971	67	376533	90.852	ug/L		100
12) Freon 123	2.026	83	501530	102.065	ug/L		99
13) Acrolein	2.062	56	465356	509.445	ug/L		98
14) 1,1-Diclethene	2.141	96	362011	100.983	ug/L		95
15) Freon 113	2.147	101	391148	105.069	ug/L		95
16) Acetone	2.196	43	220056	98.002	ug/L		96
17) 2-Propanol	2.330	45	732853	1979.069	ug/L		97
18) Iodomethane	2.263	142	640301	112.526	ug/L		96
19) Carbon Disulfide	2.318	76	1057956	107.259	ug/L		99
20) Acetonitrile	2.446	41	445630m	230.803	ug/L		
21) Allyl Chloride	2.452	76	208854	106.097	ug/L	#	78
22) Methyl Acetate	2.477	43	538959	92.631	ug/L		98
23) Methylene Chloride	2.562	84	373983	87.436	ug/L		94
24) TBA	2.702	59	1263417	1915.929	ug/L		97
25) Acrylonitrile	2.812	53	1015313	491.889	ug/L		100
26) Methyl-t-Butyl Ether	2.849	73	1221373	98.214	ug/L		98
27) trans-1,2-Dichloroethene	2.836	96	388034	101.187	ug/L		98
28) 1,1-Diclethane	3.306	63	691788	101.907	ug/L		99
29) Vinyl Acetate	3.391	86	59590	106.285	ug/L	#	96
30) DIPE	3.422	45	1243644	97.445	ug/L		98
31) 2-Chloro-1,3-Butadiene	3.422	53	693506	101.985	ug/L		91
32) ETBE	3.922	59	1241166	99.863	ug/L		97
33) 2,2-Dichloropropane	4.080	77	620172	112.094	ug/L		97
34) cis-1,2-Dichloroethene	4.092	96	436903	101.706	ug/L		93
35) 2-Butanone	4.153	43	277804	97.393	ug/L		95
36) Propionitrile	4.232	54	410189	496.503	ug/L		100
37) Bromochloromethane	4.464	130	299253	115.161	ug/L		98
38) Methacrylonitrile	4.482	67	201406	101.312	ug/L		91
39) Tetrahydrofuran	4.562	42	167685	95.475	ug/L		100
40) Chloroform	4.635	83	685922	93.997	ug/L		98

1st 02/16/24
2nd 02/16/24

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9812.D
Acq On : 15 Feb 2024 03:05 pm
Operator : K.Ruest
Sample : 100ppb
Misc : WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 16 08:33:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Feb 15 15:03:57 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-Trichloroethane	4.915	97	667802	107.842	ug/L	99
42) TAME	5.836	73	1109489	97.640	ug/L	95
44) Cyclohexane	5.007	41	376855	103.242	ug/L	100
46) Carbontetrachloride	5.220	117	597858	111.221	ug/L	97
47) 1,1-Dichloropropene	5.238	75	504256	94.460	ug/L	97
49) Benzene	5.580	78	1448369	99.436	ug/L	96
50) 1,2-Dichloroethane	5.629	62	582624	92.527	ug/L	95
51) Iso-Butyl Alcohol	5.641	43	480555	2208.359	ug/L	93
52) n-Heptane	6.092	43	601121	99.589	ug/L	96
53) 1-Butanol	6.653	56	777832	7253.998	ug/L	99
54) Trichloroethene	6.574	130	447989	98.902	ug/L	97
55) Methylcyclohexane	6.811	55	545420	97.048	ug/L	89
56) 1,2-Diclpropane	6.866	63	390021	100.620	ug/L	100
57) Dibromomethane	7.012	93	270014	96.854	ug/L	92
58) 1,4-Dioxane	7.092	88	131869	1919.278	ug/L	94
59) Methyl Methacrylate	7.116	69	328245	105.863	ug/L	91
60) Bromodichloromethane	7.250	83	554332	105.099	ug/L	99
61) 2-Nitropropane	7.555	41	312091	205.648	ug/L	96
62) 2-Chloroethylvinyl Ether	7.677	63	159532	123.184	ug/L	99
63) cis-1,3-Dichloropropene	7.805	75	641042	104.058	ug/L	99
64) 4-Methyl-2-pentanone	8.031	43	528075	98.839	ug/L	98
66) Toluene	8.177	91	1613163	99.197	ug/L	99
67) trans-1,3-Dichloropropene	8.463	75	617874	105.804	ug/L	99
68) Ethyl Methacrylate	8.610	69	600541	107.176	ug/L	90
69) 1,1,2-Trichloroethane	8.652	97	388063	97.528	ug/L	99
72) Tetrachloroethene	8.774	164	360230	96.705	ug/L	99
73) 2-Hexanone	8.957	43	395099	100.990	ug/L	99
74) 1,3-Dichloropropane	8.823	76	613516	90.129	ug/L	95
75) Dibromochloromethane	9.049	129	500867	106.133	ug/L	100
76) N-Butyl Acetate	9.116	43	804347	96.888	ug/L	100
77) 1,2-Dibromoethane	9.146	107	419327	94.615	ug/L	100
78) 3-Chlorobenzotrifluoride	9.677	180	657568	96.041	ug/L	99
79) Chlorobenzene	9.646	112	1121002	93.347	ug/L	95
80) 4-Chlorobenzotrifluoride	9.731	180	596530	94.752	ug/L	100
81) 1,1,1,2-Tetrachloroethane	9.738	131	448181	98.963	ug/L	98
82) Ethylbenzene	9.768	106	593445	96.508	ug/L	96
83) (m+p)Xylene	9.884	106	1448482	193.926	ug/L	97
84) o-Xylene	10.244	106	715033	97.823	ug/L	95
85) Styrene	10.262	104	1239529	101.183	ug/L	97
86) Bromoform	10.408	173	336000	113.172	ug/L	97
87) 2-Chlorobenzotrifluoride	10.500	180	625148	97.465	ug/L	97
88) Isopropylbenzene	10.585	105	1885633	98.812	ug/L	99
89) Cyclohexanone	10.652	55	2049255	1832.302	ug/L	98
90) trans-1,4-Dichloro-2-B...	10.902	53	190481	107.931	ug/L	90
92) 1,1,2,2-Tetrachloroethane	10.853	83	545466	87.786	ug/L	99
93) Bromobenzene	10.823	156	507956	87.326	ug/L	98
94) 1,2,3-Trichloropropane	10.878	110	189098	82.588	ug/L	97
95) n-Propylbenzene	10.939	91	2128461	94.279	ug/L	98
96) 2-Chlorotoluene	11.000	91	1286956	88.517	ug/L	98
97) 3-Chlorotoluene	11.054	91	1311884	84.796	ug/L	98
98) 4-Chlorotoluene	11.097	91	1498419	85.271	ug/L	99
99) 1,3,5-Trimethylbenzene	11.097	105	1593862	90.140	ug/L	100
100) tert-Butylbenzene	11.365	119	1413246	91.487	ug/L	99
101) 1,2,4-Trimethylbenzene	11.408	105	1612345	93.721	ug/L	99
102) 3,4-Dichlorobenzotrifl...	11.475	214	510325	95.535	ug/L	99
103) sec-Butylbenzene	11.548	105	2009941	92.660	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9812.D
Acq On : 15 Feb 2024 03:05 pm
Operator : K.Ruest
Sample : 100ppb
Misc : WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 16 08:33:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Feb 15 15:03:57 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) p-Isopropyltoluene	11.676	119	1790713	95.095	ug/L	99
105) 1,3-Dclbenz	11.627	146	959890	89.066	ug/L	99
106) 1,4-Dclbenz	11.701	146	949680	85.161	ug/L	98
107) 2,4-Dichlorobenzotrifl...	11.762	214	460938	90.560	ug/L	97
108) 2,5-Dichlorobenzotrifl...	11.804	214	497571	90.599	ug/L	97
109) n-Butylbenzene	12.005	91	1552081	98.848	ug/L	99
110) 1,2-Dclbenz	12.005	146	924972	88.453	ug/L	99
111) 1,2-Dibromo-3-chloropr...	12.633	157	158539	108.468	ug/L	96
112) Trielution Dichlorotol...	12.749	125	2606013	283.616	ug/L	99
113) 1,3,5-Trichlorobenzene	12.804	180	705161	93.996	ug/L	99
114) Coelution Dichlorotoluene	13.078	125	1854946	192.581	ug/L	98
115) 1,2,4-Tcbenzene	13.286	180	671563	97.509	ug/L	99
116) Hexachlorobt	13.426	225	339457	98.642	ug/L	96
117) Naphthalen	13.475	128	1904528	108.089	ug/L	99
118) 1,2,3-Tclbenzene	13.664	180	644109	101.792	ug/L	99
119) 2,4,5-Trichlorotoluene	14.249	159	501237	106.513	ug/L	99
120) 2,3,6-Trichlorotoluene	14.334	159	457394	102.526	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9812.D
Acq On : 15 Feb 2024 03:05 pm
Operator : K.Ruest
Sample : 100ppb
Misc : WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

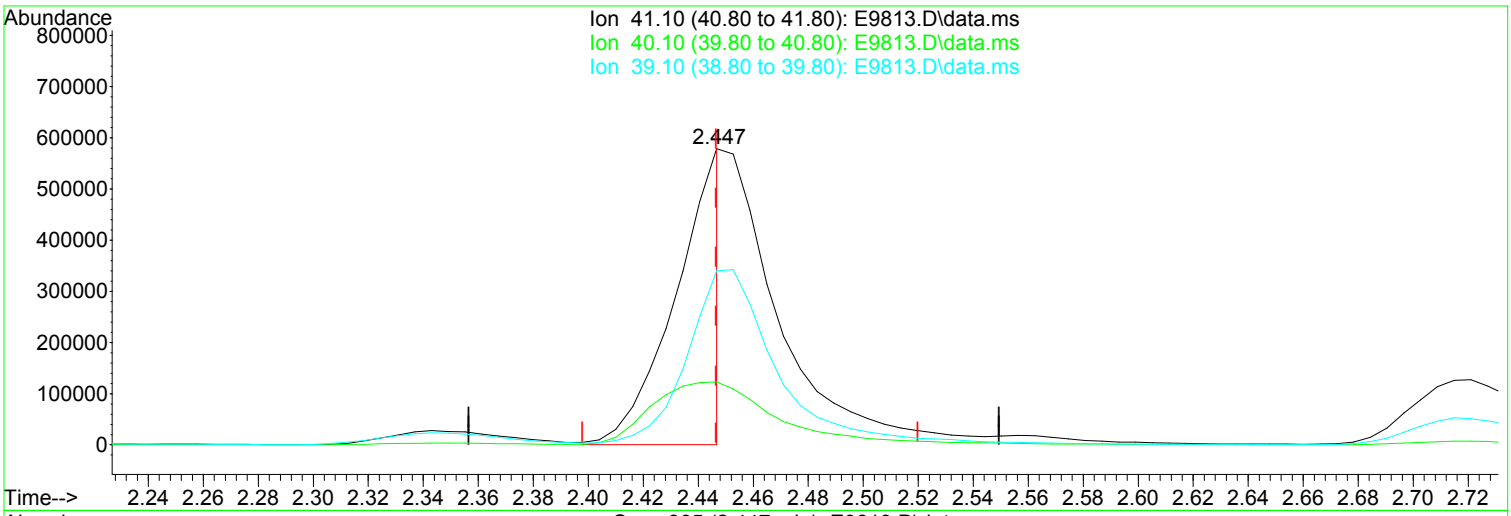
Quant Time: Feb 16 08:33:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Feb 15 15:03:57 2024
Response via : Initial Calibration

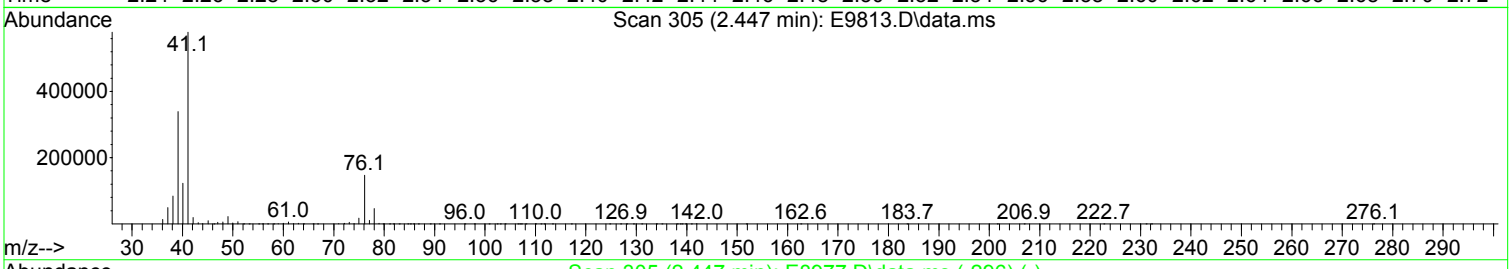
1st 02/16/24
2nd 02/16/24

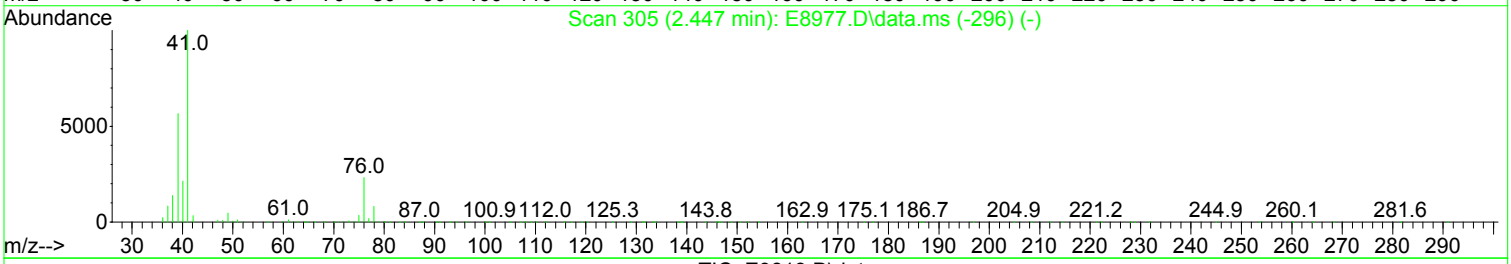
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9813.D
Acq On : 15 Feb 2024 03:28 pm
Operator : K.Ruest
Sample : 150ppb
Misc : WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 16 08:33:50 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 08:33:43 2024
Response via : Initial Calibration







TIC: E9813.D\data.ms

(20) Acetonitrile

2.447min (+ 0.000) 354.49 ug/L m

response 687284

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	21.50	21.20
39.10	57.00	58.66
0.00	0.00	0.00

Manual Integration:

After

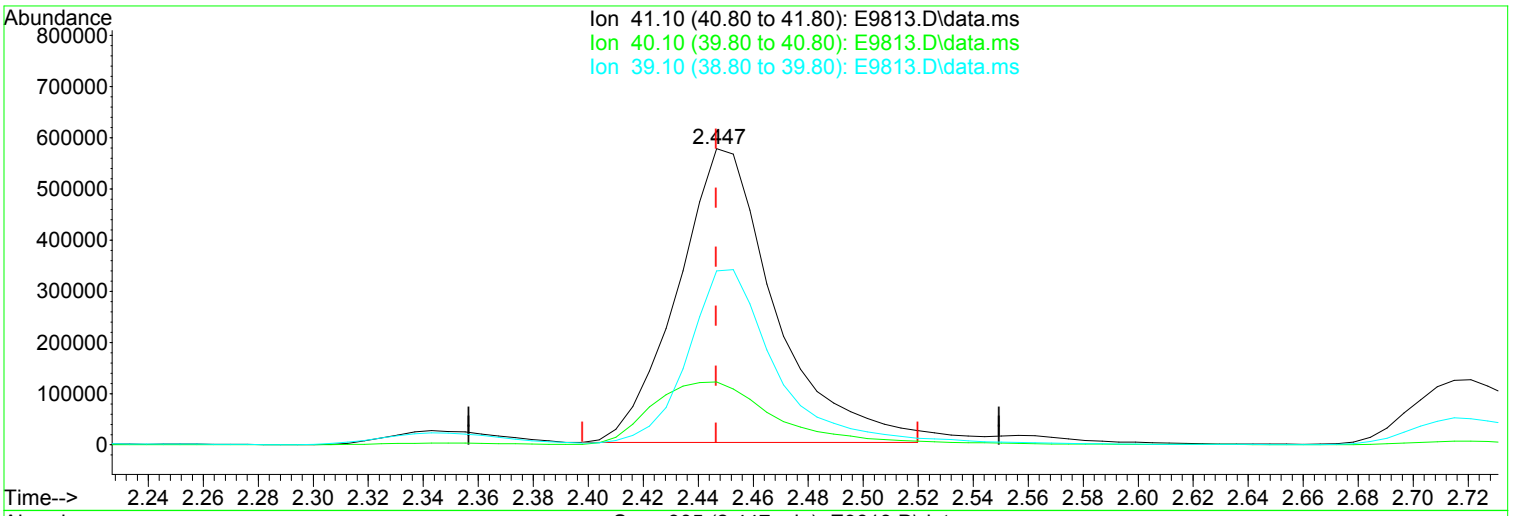
Poor integration.

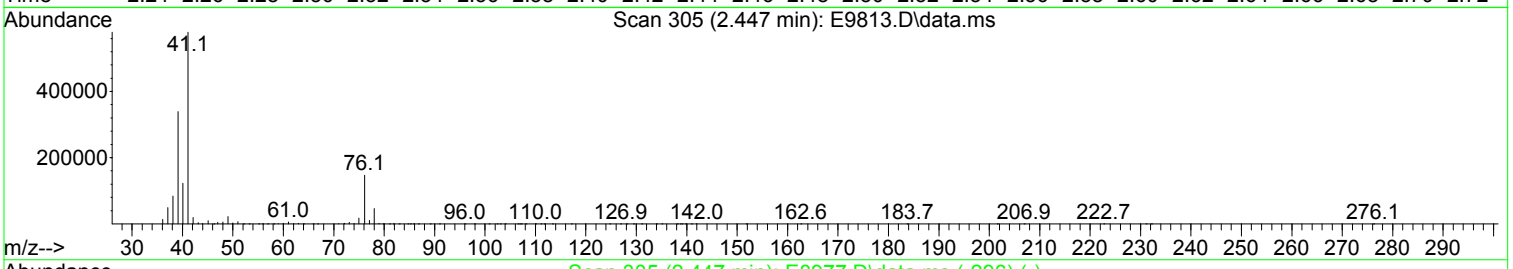
02/16/24

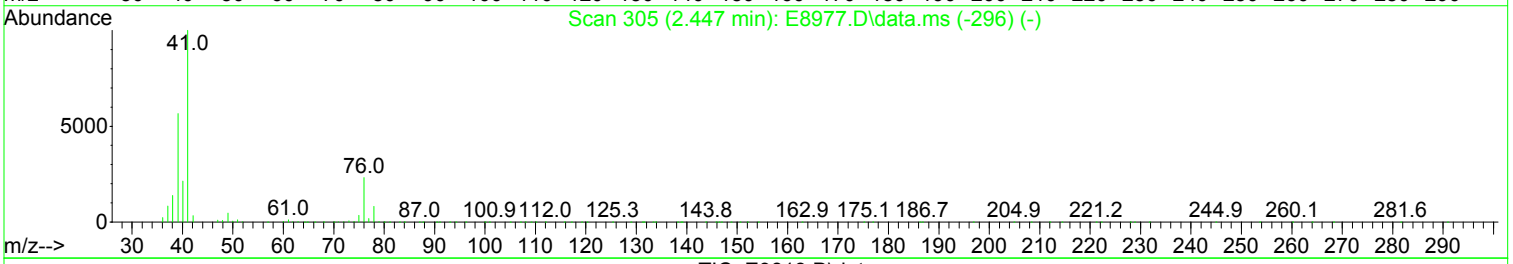
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9813.D
Acq On : 15 Feb 2024 03:28 pm
Operator : K.Ruest
Sample : 150ppb
Misc : WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 16 08:33:50 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 08:33:43 2024
Response via : Initial Calibration







TIC: E9813.D\data.ms

(20) Acetonitrile

2.447min (+ 0.000) 733.77 ug/L

response 1422629

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	21.50	21.20
39.10	57.00	58.66
0.00	0.00	0.00

Manual Integration:

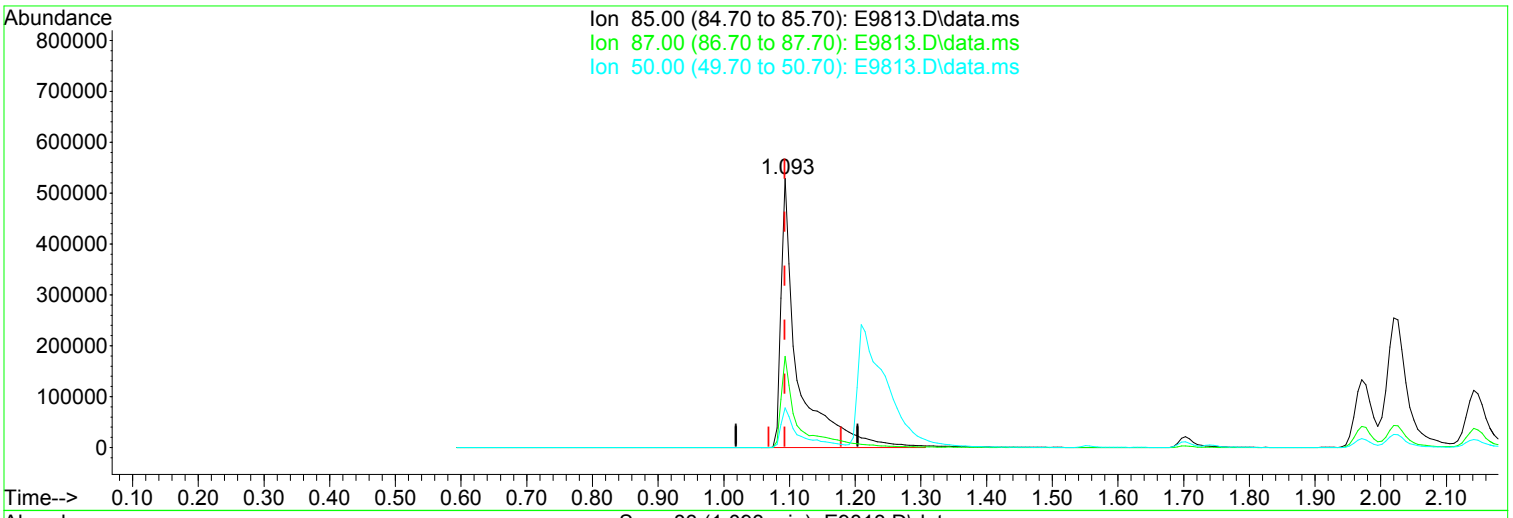
Before

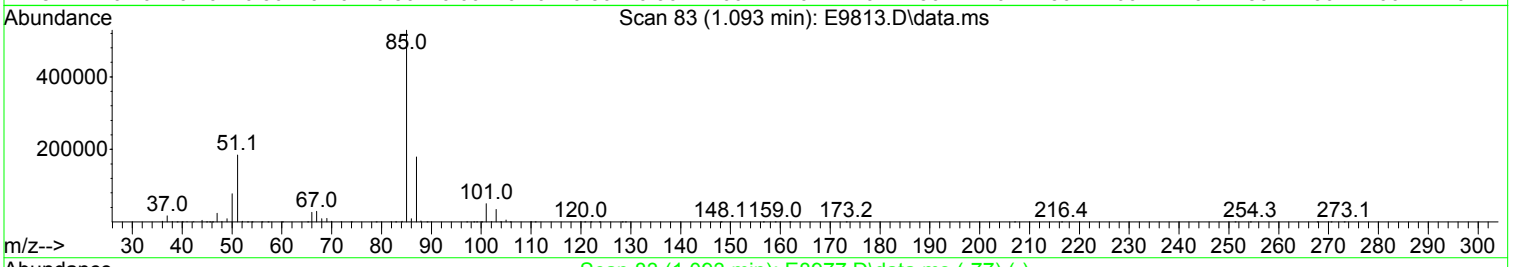
02/16/24

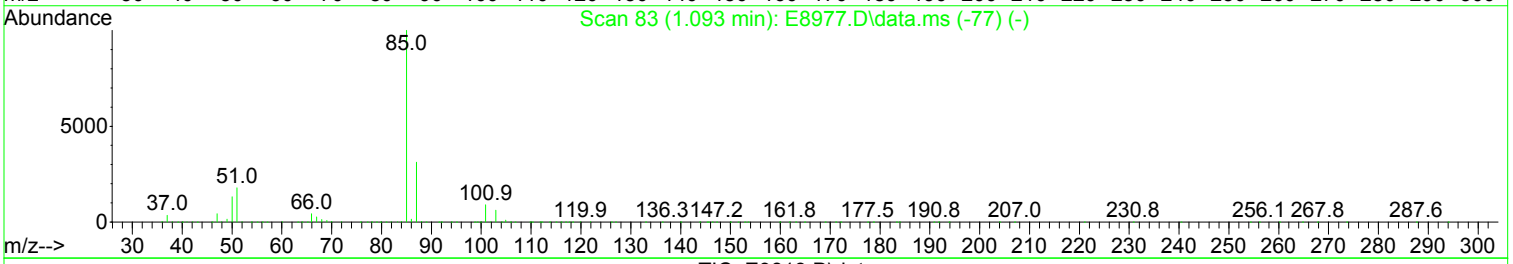
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9813.D
Acq On : 15 Feb 2024 03:28 pm
Operator : K.Ruest
Sample : 150ppb
Misc : WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 16 08:33:50 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 08:33:43 2024
Response via : Initial Calibration







TIC: E9813.D\data.ms

(3) Dichlorodifluoromethane (P)

1.093min (+ 0.000) 184.86 ug/L m

response 932846

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.10	33.87
50.00	13.20	14.69
0.00	0.00	0.00

Manual Integration:

After

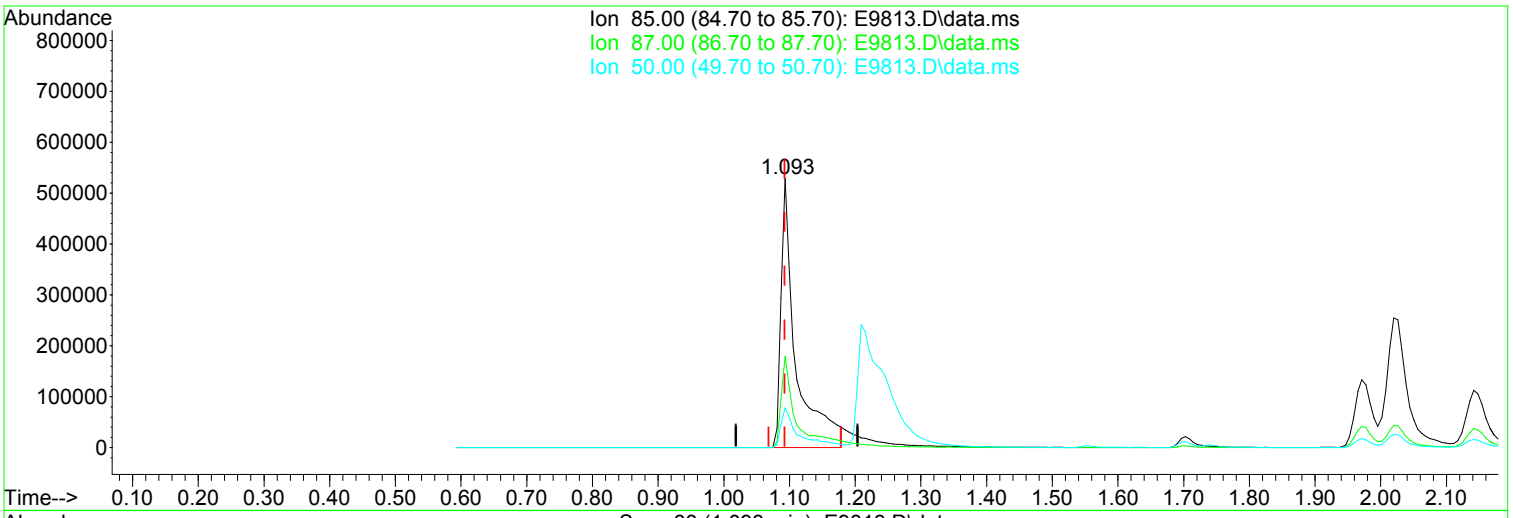
Poor integration.

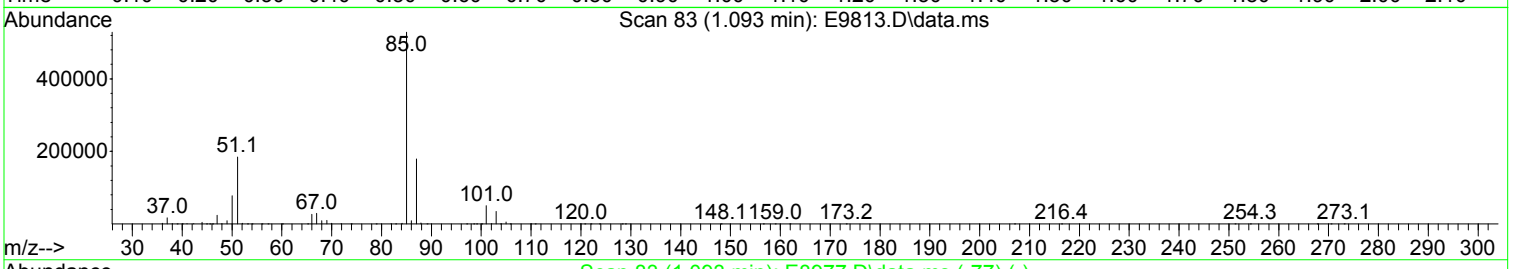
02/16/24

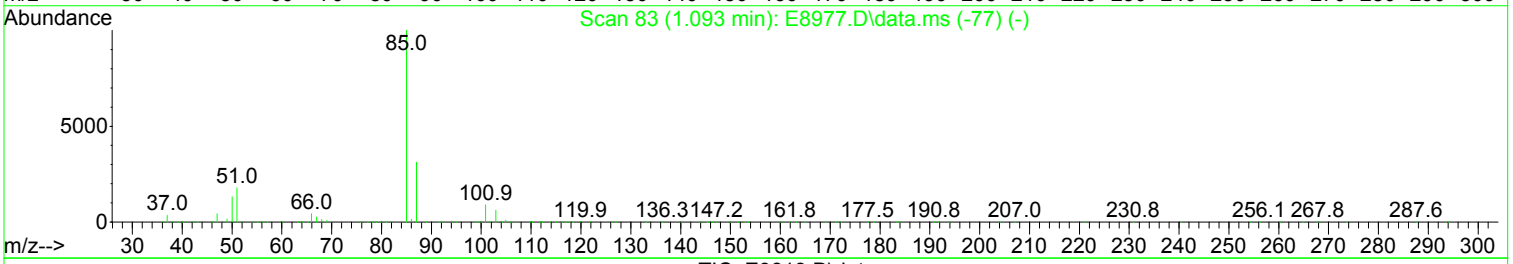
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9813.D
Acq On : 15 Feb 2024 03:28 pm
Operator : K.Ruest
Sample : 150ppb
Misc : WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 16 08:33:50 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 08:33:43 2024
Response via : Initial Calibration







TIC: E9813.D\data.ms

(3) Dichlorodifluoromethane (P)

1.093min (+ 0.000) 165.63 ug/L

response 835809

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.10	33.87
50.00	13.20	14.69
0.00	0.00	0.00

Manual Integration:

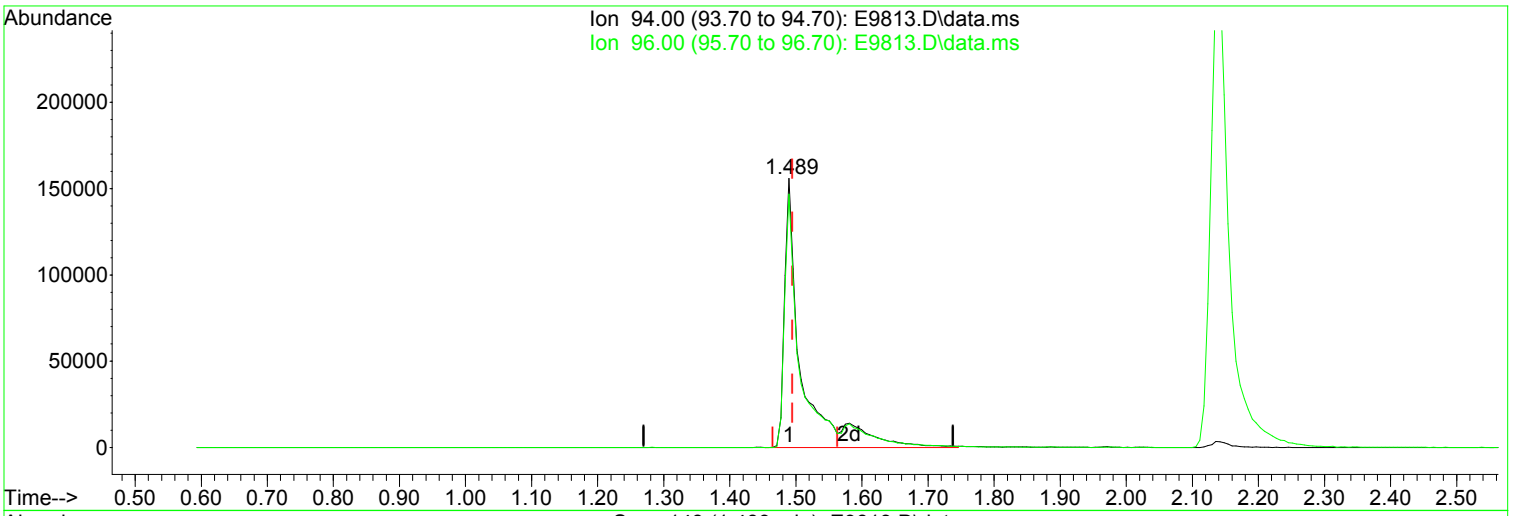
Before

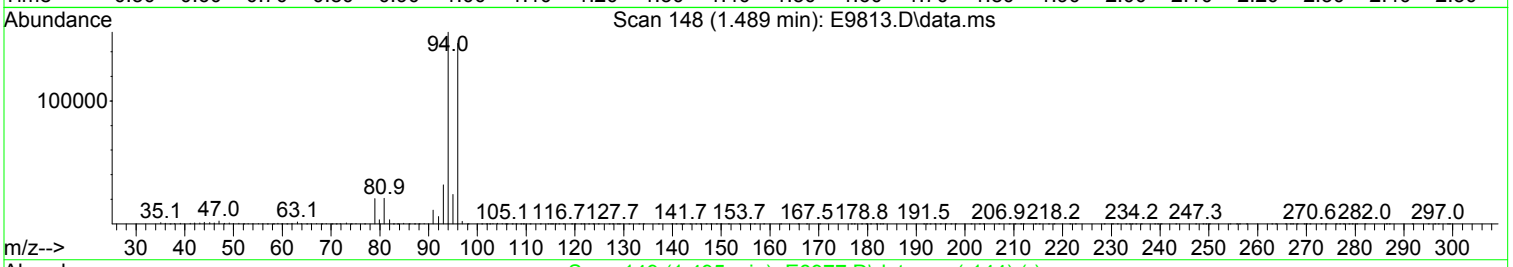
02/16/24

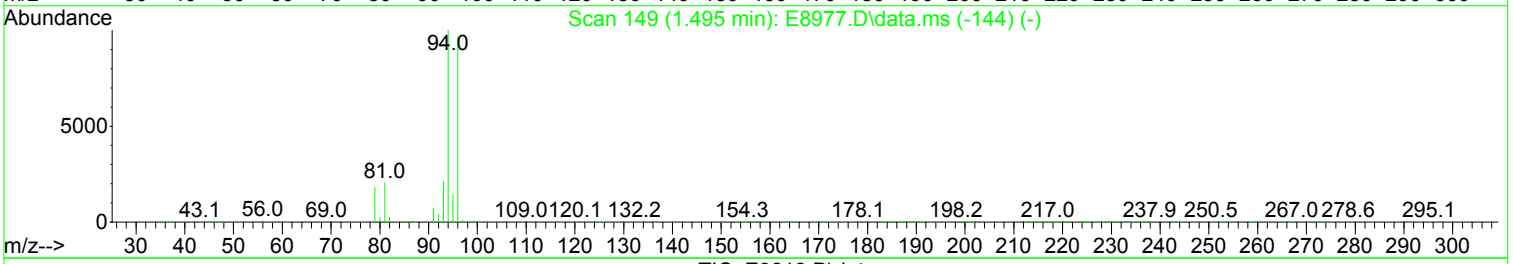
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9813.D
Acq On : 15 Feb 2024 03:28 pm
Operator : K.Ruest
Sample : 150ppb
Misc : WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 16 08:33:50 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 08:33:43 2024
Response via : Initial Calibration







TIC: E9813.D\data.ms

(6) Bromomethane (P)

1.489min (-0.006) 113.05 ug/L m

response 286916

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	96.90	94.17
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

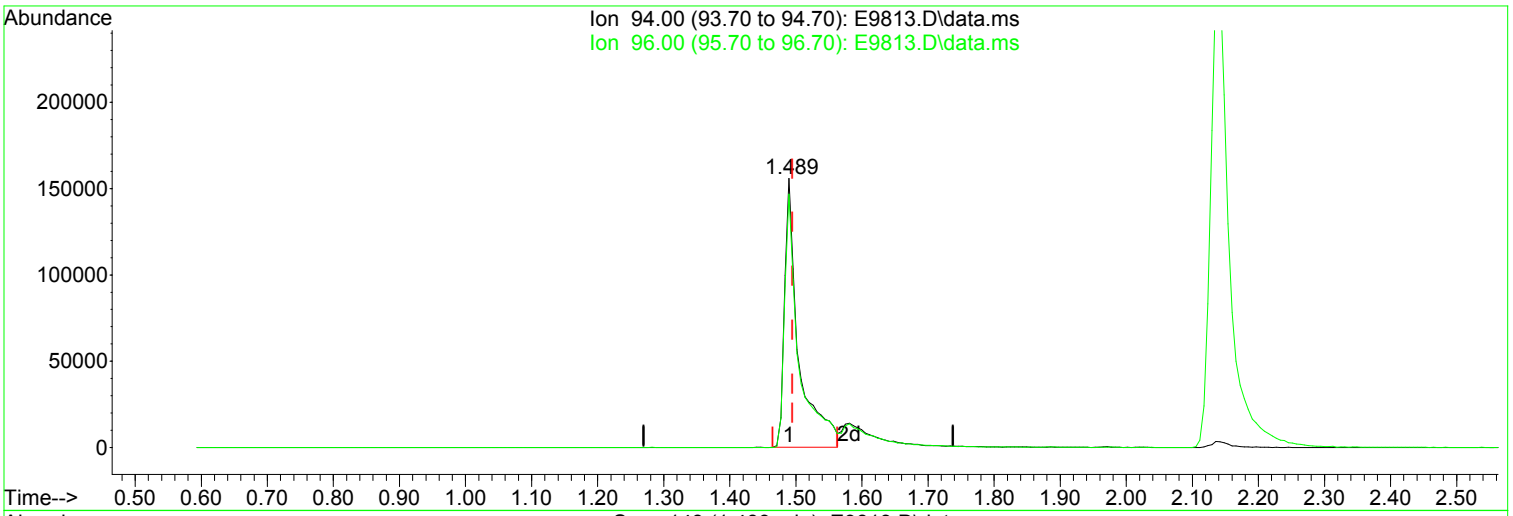
Poor integration.

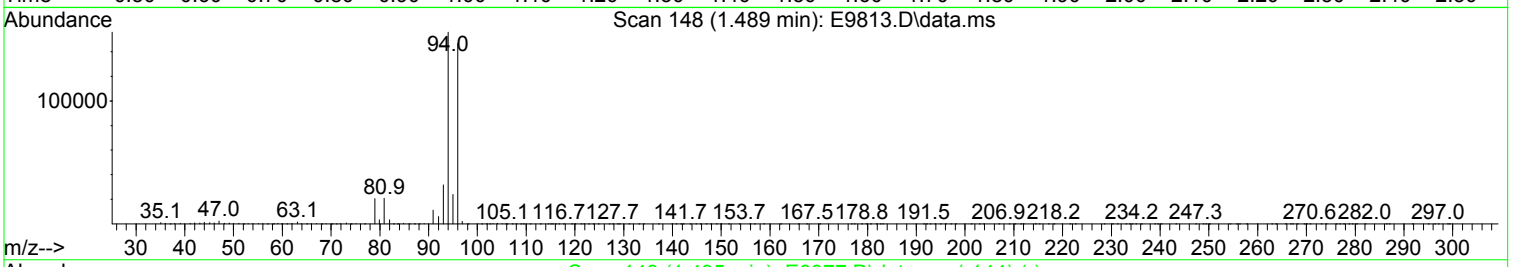
02/16/24

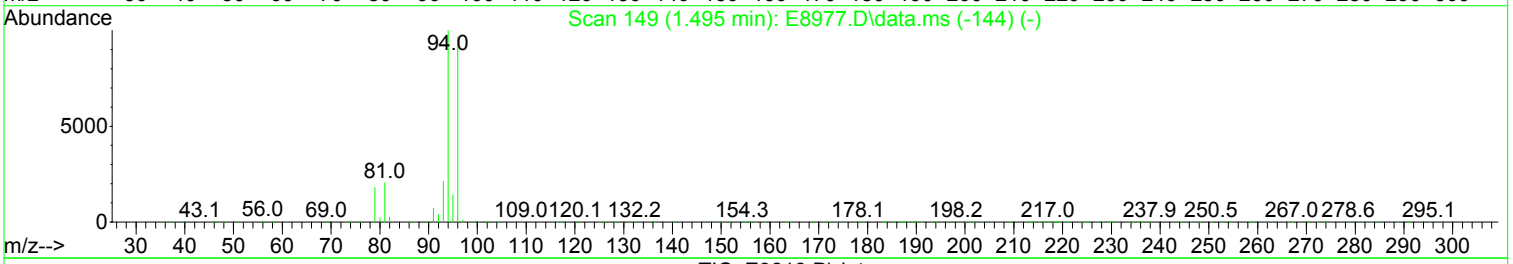
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9813.D
Acq On : 15 Feb 2024 03:28 pm
Operator : K.Ruest
Sample : 150ppb
Misc : WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 16 08:33:50 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 08:33:43 2024
Response via : Initial Calibration







TIC: E9813.D\data.ms

(6) Bromomethane (P)

1.489min (-0.006) 92.72 ug/L

response 235322

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	96.90	94.17
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

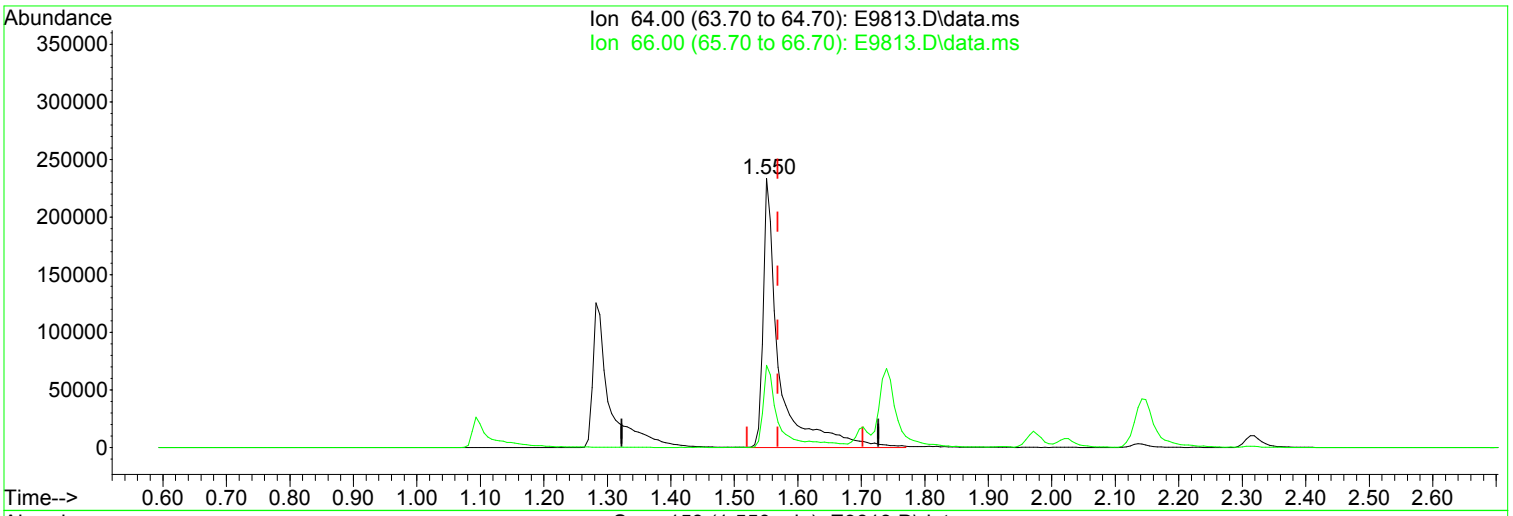
Before

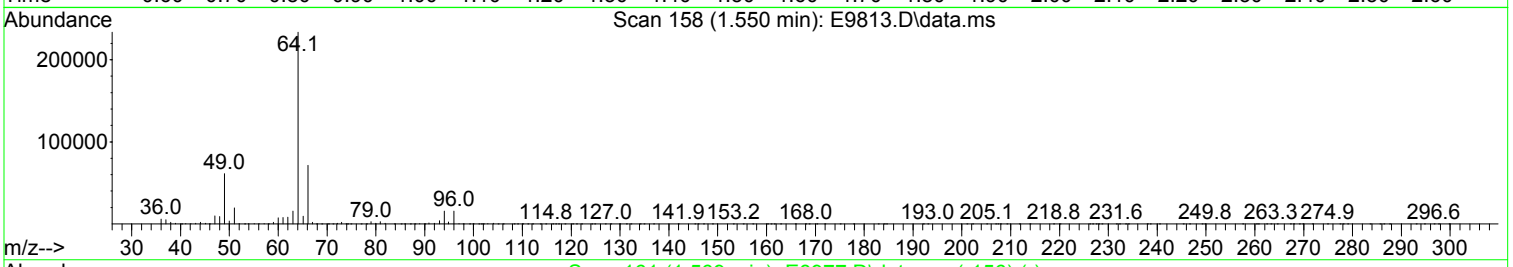
02/16/24

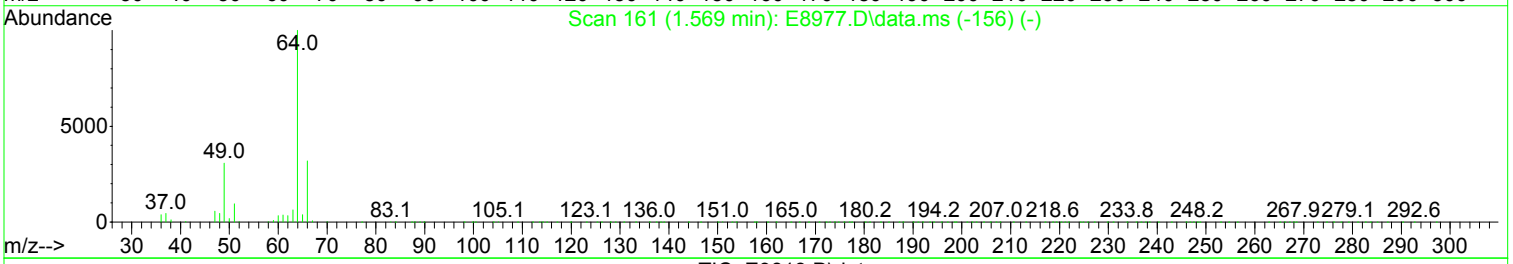
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9813.D
Acq On : 15 Feb 2024 03:28 pm
Operator : K.Ruest
Sample : 150ppb
Misc : WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 16 08:33:50 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 08:33:43 2024
Response via : Initial Calibration







TIC: E9813.D\data.ms

(7) Chloroethane (P)

1.550min (-0.018) 124.76 ug/L m

response 403583

Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.90	30.52
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

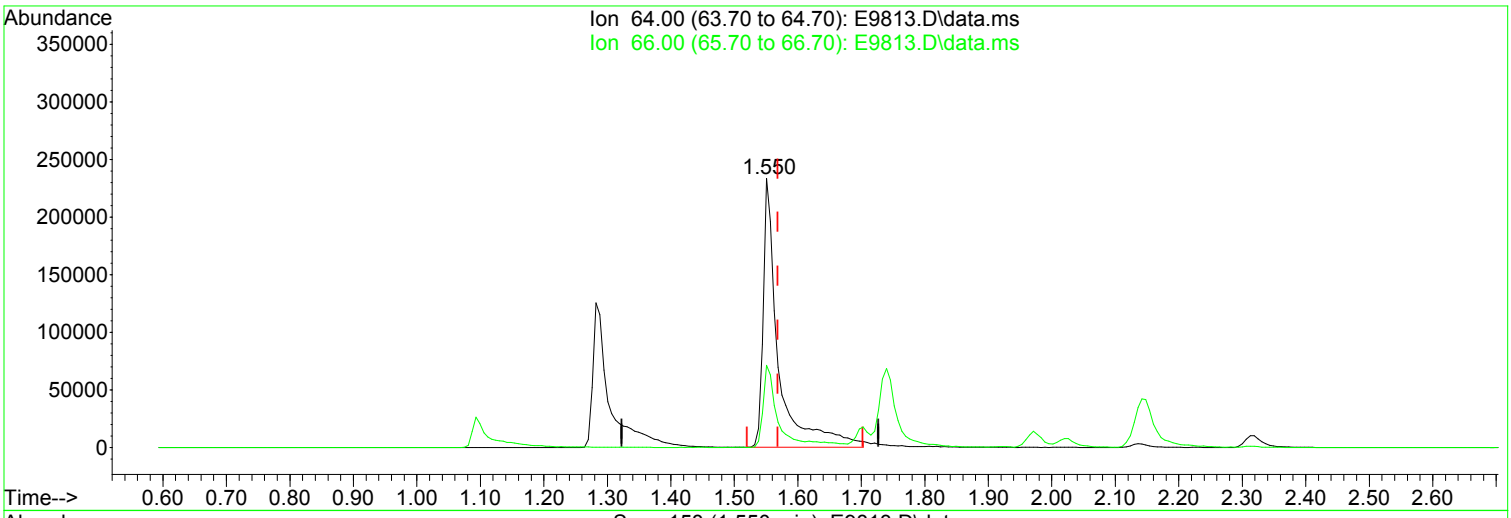
Poor integration.

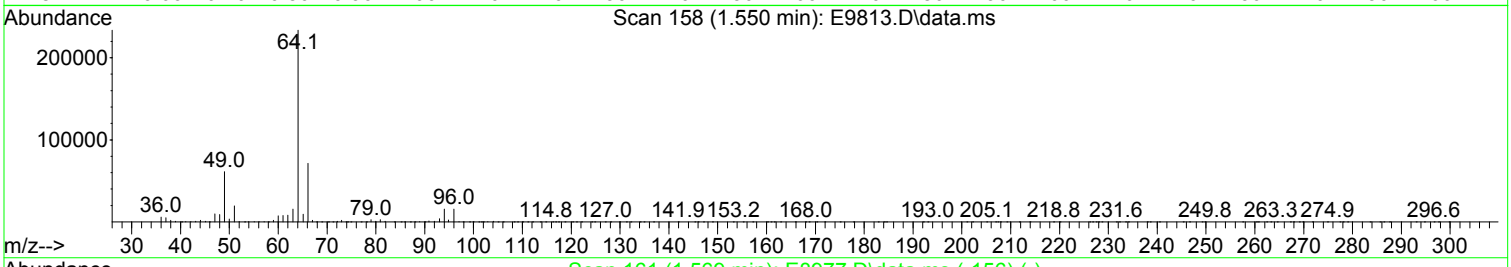
02/16/24

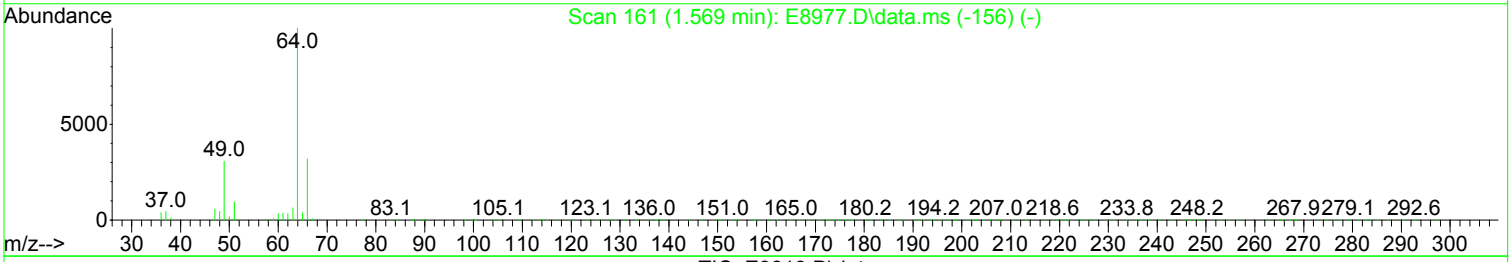
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9813.D
Acq On : 15 Feb 2024 03:28 pm
Operator : K.Ruest
Sample : 150ppb
Misc : WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 16 08:33:50 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 08:33:43 2024
Response via : Initial Calibration







TIC: E9813.D\data.ms

(7) Chloroethane (P)

1.550min (-0.018) 121.28 ug/L

response 392330

Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.90	30.52
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

02/16/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9813.D
Acq On : 15 Feb 2024 03:28 pm
Operator : K.Ruest
Sample : 150ppb
Misc : WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 16 08:33:50 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 08:33:43 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.080	168	466871	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.245	114	693694	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.616	117	640943	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	11.683	152	350693	50.00	ug/L	#	0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.922	113	874954	193.29	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 386.58%#				
48) surr1,1,2-dichloroetha...	5.501	65	1022361	187.17	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 374.34%#				
65) SURR3,Toluene-d8	8.104	98	3053057	185.83	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 371.66%#				
70) SURR2,BFB	10.707	95	1200470	192.18	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 384.36%#				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.099	51	669350	152.887	ug/L		97
3) Dichlorodifluoromethane	1.093	85	932846m	184.864	ug/L		
4) Chloromethane	1.209	50	686046	180.306	ug/L		97
5) Vinyl Chloride	1.282	62	735425	159.442	ug/L		100
6) Bromomethane	1.489	94	286916m	113.052	ug/L		
7) Chloroethane	1.550	64	403583m	124.756	ug/L		
8) Freon 21	1.703	67	1007957	146.248	ug/L		98
9) Trichlorofluoromethane	1.739	101	970046	153.012	ug/L		99
10) Diethyl Ether	1.971	59	524903	114.500	ug/L		97
11) Freon 123a	1.971	67	590034	143.710	ug/L		96
12) Freon 123	2.020	83	790733	159.844	ug/L		99
13) Acrolein	2.063	56	689625	750.100	ug/L		98
14) 1,1-Diclethene	2.142	96	543701	150.884	ug/L		98
15) Freon 113	2.142	101	581348	154.454	ug/L		99
16) Acetone	2.197	43	314342	140.167	ug/L		96
17) 2-Propanol	2.343	45	1126128	3034.970	ug/L		99
18) Iodomethane	2.264	142	941107	160.741	ug/L		98
19) Carbon Disulfide	2.313	76	1581834	158.129	ug/L		99
20) Acetonitrile	2.447	41	687284m	354.491	ug/L		
21) Allyl Chloride	2.453	76	315627	158.355	ug/L	#	79
22) Methyl Acetate	2.483	43	808757	140.201	ug/L		99
23) Methylene Chloride	2.562	84	554194	131.441	ug/L		97
24) TBA	2.721	59	1928872	2934.633	ug/L		96
25) Acrylonitrile	2.812	53	1495722	723.585	ug/L		99
26) Methyl-t-Butyl Ether	2.849	73	1813891	145.683	ug/L		99
27) trans-1,2-Dichloroethene	2.837	96	579587	150.315	ug/L		97
28) 1,1-Diclethane	3.300	63	1028817	150.575	ug/L		99
29) Vinyl Acetate	3.392	86	92009	161.462	ug/L	#	76
30) DIPE	3.422	45	1864125	146.046	ug/L		99
31) 2-Chloro-1,3-Butadiene	3.416	53	1022434	149.368	ug/L		93
32) ETBE	3.916	59	1852158	148.491	ug/L		97
33) 2,2-Dichloropropane	4.080	77	919557	162.770	ug/L		98
34) cis-1,2-Dichloroethene	4.093	96	646345	149.532	ug/L		90
35) 2-Butanone	4.154	43	411161	144.356	ug/L		96
36) Propionitrile	4.239	54	618568	746.661	ug/L		97
37) Bromochloromethane	4.458	130	442392	166.009	ug/L		98
38) Methacrylonitrile	4.483	67	298802	149.413	ug/L		93
39) Tetrahydrofuran	4.562	42	249290	142.696	ug/L		99
40) Chloroform	4.635	83	1029467	141.760	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9813.D
Acq On : 15 Feb 2024 03:28 pm
Operator : K.Ruest
Sample : 150ppb
Misc : WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 16 08:33:50 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 08:33:43 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-Trichloroethane	4.916	97	995987	158.460	ug/L	99
42) TAME	5.842	73	1679875	147.780	ug/L	97
44) Cyclohexane	5.001	41	582116	158.368	ug/L	100
46) Carbontetrachloride	5.221	117	890493	162.790	ug/L	96
47) 1,1-Dichloropropene	5.233	75	763674	143.969	ug/L	98
49) Benzene	5.574	78	2165336	148.544	ug/L	95
50) 1,2-Dichloroethane	5.629	62	872842	139.892	ug/L	95
51) Iso-Butyl Alcohol	5.659	43	735089	3303.896	ug/L	94
52) n-Heptane	6.092	43	879936	145.637	ug/L	98
53) 1-Butanol	6.665	56	1203616	10423.968	ug/L	99
54) Trichloroethene	6.574	130	680837	150.306	ug/L	98
55) Methylcyclohexane	6.812	55	855315	152.700	ug/L	89
56) 1,2-Diclpropane	6.867	63	576428	148.345	ug/L	99
57) Dibromomethane	7.013	93	402990	144.977	ug/L	91
58) 1,4-Dioxane	7.098	88	201070	2945.630	ug/L	94
59) Methyl Methacrylate	7.117	69	494667	157.962	ug/L	92
60) Bromodichloromethane	7.251	83	830780	156.128	ug/L	99
61) 2-Nitropropane	7.555	41	467732	306.279	ug/L	97
62) 2-Chloroethylvinyl Ether	7.677	63	257388	191.050	ug/L	98
63) cis-1,3-Dichloropropene	7.805	75	962575	155.107	ug/L	100
64) 4-Methyl-2-pentanone	8.031	43	781742	146.427	ug/L	97
66) Toluene	8.177	91	2385828	146.647	ug/L	99
67) trans-1,3-Dichloropropene	8.464	75	911695	154.590	ug/L	99
68) Ethyl Methacrylate	8.610	69	895110	157.877	ug/L	92
69) 1,1,2-Trichloroethane	8.653	97	574282	144.613	ug/L	99
72) Tetrachloroethene	8.775	164	542836	144.756	ug/L	97
73) 2-Hexanone	8.958	43	582549	146.925	ug/L	98
74) 1,3-Dichloropropane	8.824	76	910825	134.181	ug/L	95
75) Dibromochloromethane	9.049	129	747376	154.989	ug/L	97
76) N-Butyl Acetate	9.116	43	1208905	144.720	ug/L	99
77) 1,2-Dibromoethane	9.147	107	617590	138.839	ug/L	100
78) 3-Chlorobenzotrifluoride	9.677	180	999844	145.198	ug/L	99
79) Chlorobenzene	9.647	112	1663875	138.297	ug/L	96
80) 4-Chlorobenzotrifluoride	9.732	180	893364	141.353	ug/L	98
81) 1,1,1,2-Tetrachloroethane	9.738	131	669760	146.431	ug/L	99
82) Ethylbenzene	9.768	106	872079	140.916	ug/L	96
83) (m+p)Xylene	9.884	106	2145941	285.286	ug/L	100
84) o-Xylene	10.244	106	1066103	144.649	ug/L	98
85) Styrene	10.262	104	1825094	147.046	ug/L	97
86) Bromoform	10.409	173	508508	166.208	ug/L	97
87) 2-Chlorobenzotrifluoride	10.494	180	951207	147.153	ug/L	99
88) Isopropylbenzene	10.585	105	2777559	144.147	ug/L	100
89) Cyclohexanone	10.652	55	2933251	2629.740	ug/L	98
90) trans-1,4-Dichloro-2-B...	10.902	53	285391	158.085	ug/L	89
92) 1,1,2,2-Tetrachloroethane	10.854	83	810237	128.331	ug/L	98
93) Bromobenzene	10.823	156	757137	128.188	ug/L	100
94) 1,2,3-Trichloropropane	10.878	110	277537	120.201	ug/L	93
95) n-Propylbenzene	10.939	91	3148706	144.628	ug/L	98
96) 2-Chlorotoluene	11.000	91	1891293	127.886	ug/L	97
97) 3-Chlorotoluene	11.055	91	1963808	125.468	ug/L	98
98) 4-Chlorotoluene	11.098	91	2213035	124.397	ug/L	100
99) 1,3,5-Trimethylbenzene	11.098	105	2362759	131.059	ug/L	100
100) tert-Butylbenzene	11.366	119	2078936	131.739	ug/L	98
101) 1,2,4-Trimethylbenzene	11.408	105	2396249	135.906	ug/L	99
102) 3,4-Dichlorobenzotrifl...	11.476	214	761312	138.700	ug/L	99
103) sec-Butylbenzene	11.549	105	2950727	132.933	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9813.D
Acq On : 15 Feb 2024 03:28 pm
Operator : K.Ruest
Sample : 150ppb
Misc : WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 16 08:33:50 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 08:33:43 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) p-Isopropyltoluene	11.677	119	2651282	137.107	ug/L	100
105) 1,3-Dclbenz	11.628	146	1423489	129.748	ug/L	99
106) 1,4-Dclbenz	11.701	146	1424881	126.231	ug/L	99
107) 2,4-Dichlorobenzotrifl...	11.762	214	700569	134.914	ug/L	99
108) 2,5-Dichlorobenzotrifl...	11.805	214	751017	134.032	ug/L	98
109) n-Butylbenzene	12.006	91	2262037	139.536	ug/L	97
110) 1,2-Dclbenz	12.006	146	1381367	129.877	ug/L	98
111) 1,2-Dibromo-3-chloropr...	12.634	157	244367	159.736	ug/L	97
112) Trielution Dichlorotol...	12.756	125	3922858	416.079	ug/L	97
113) 1,3,5-Trichlorobenzene	12.805	180	1058700	137.643	ug/L	99
114) Coelution Dichlorotoluene	13.079	125	2763760	278.938	ug/L	98
115) 1,2,4-Tcbenzene	13.286	180	1008931	142.163	ug/L	99
116) Hexachlorobt	13.426	225	490833	138.189	ug/L	95
117) Naphthalen	13.475	128	2915835	157.891	ug/L	99
118) 1,2,3-Tclbenzene	13.664	180	978422	149.138	ug/L	99
119) 2,4,5-Trichlorotoluene	14.249	159	747143	151.877	ug/L	99
120) 2,3,6-Trichlorotoluene	14.335	159	691753	149.309	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9813.D
Acq On : 15 Feb 2024 03:28 pm
Operator : K.Ruest
Sample : 150ppb
Misc : WATER ICAL
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Quant Time: Feb 16 08:33:50 2024
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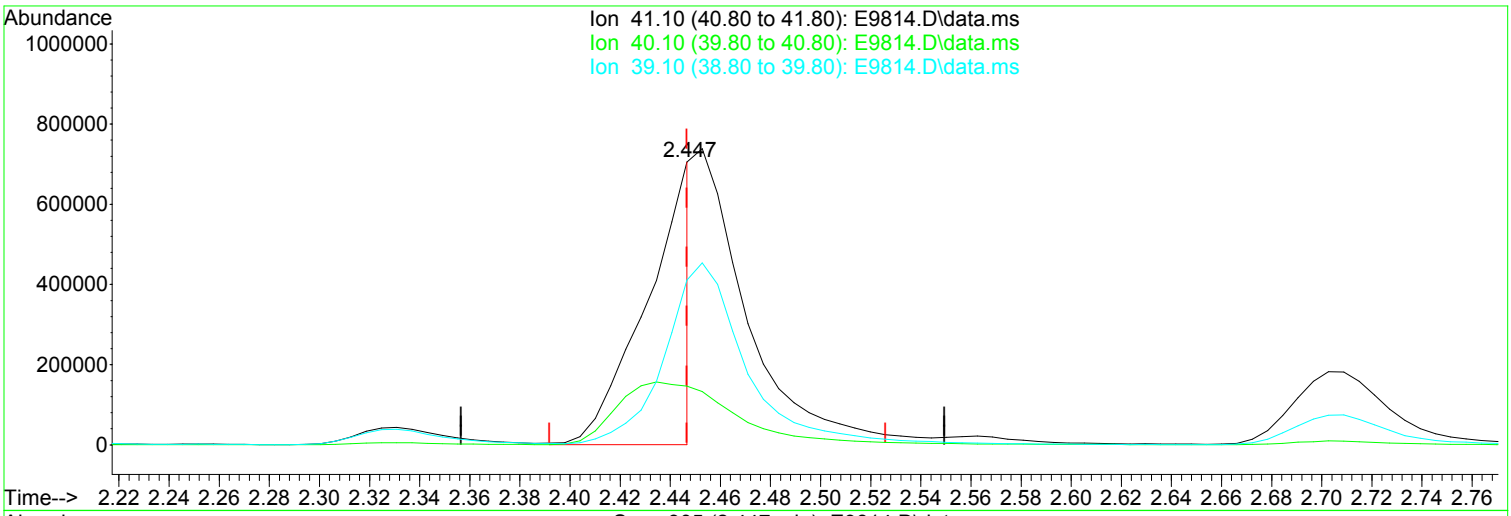
Response via : Initial Calibration

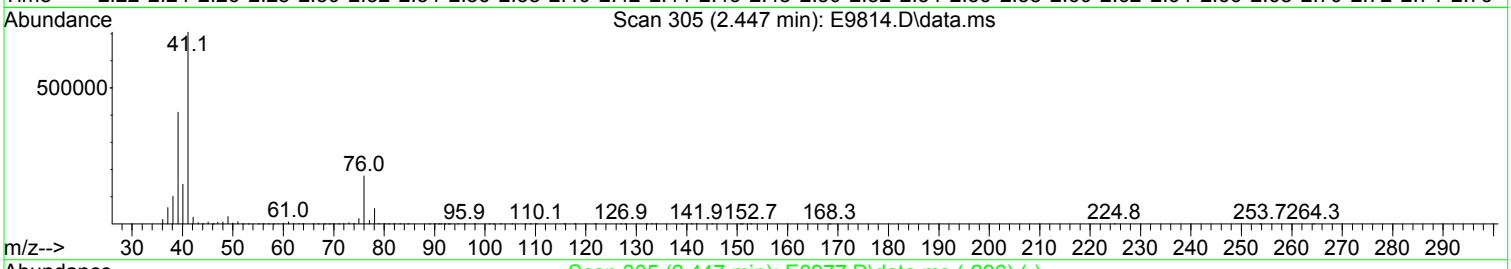
1st FJ 02/16/24
2nd FJ 02/16/24

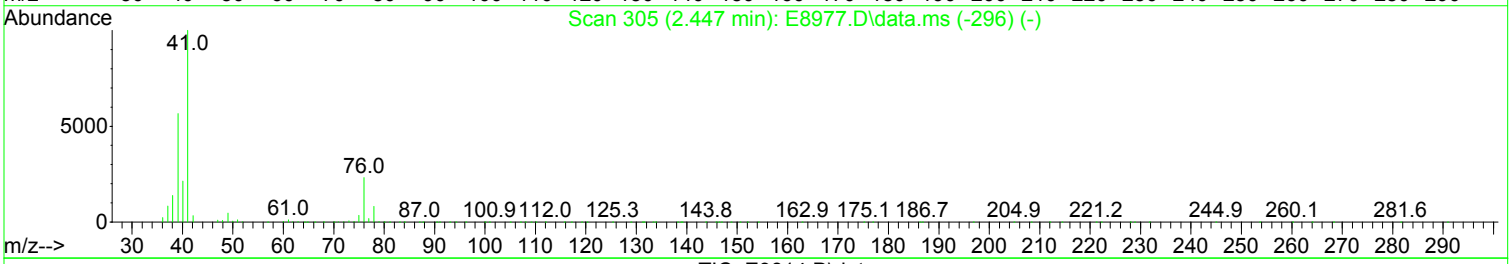
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9814.D
Acq On : 15 Feb 2024 03:51 pm
Operator : K.Ruest
Sample : 200ppb
Misc : WATER ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 16 08:34:16 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 08:34:09 2024
Response via : Initial Calibration







TIC: E9814.D\data.ms

(20) Acetonitrile

2.447min (+ 0.000) 470.12 ug/L m

response 901923

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	21.50	20.74
39.10	57.00	58.26
0.00	0.00	0.00

Manual Integration:

After

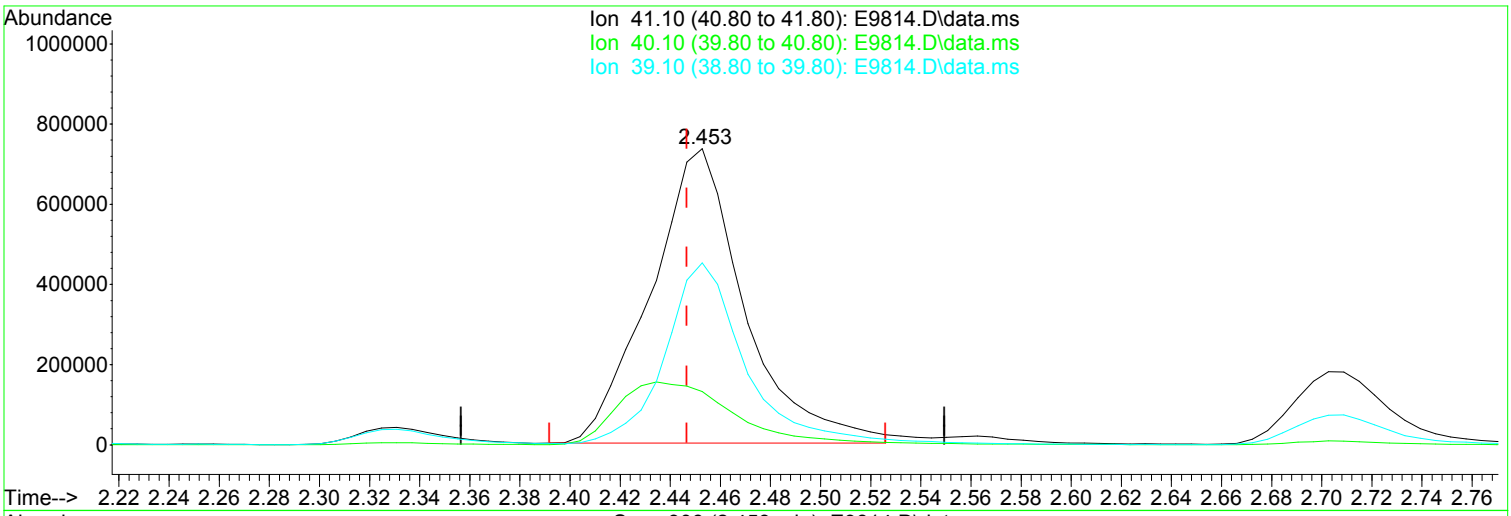
Poor integration.

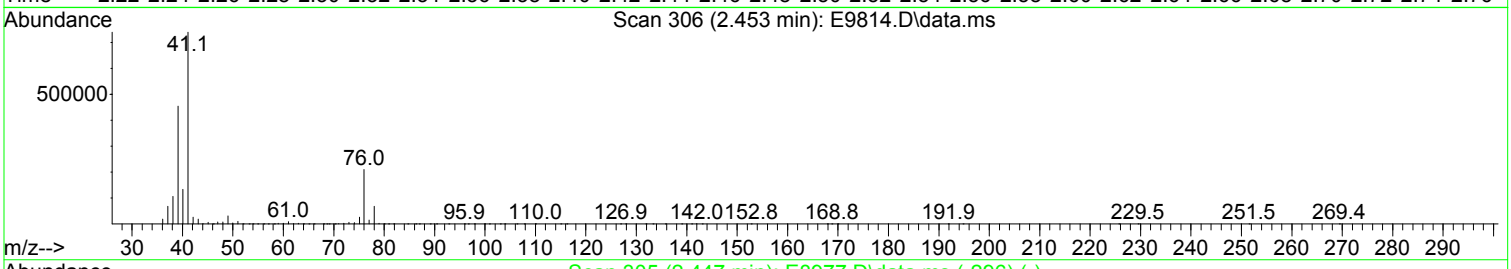
02/16/24

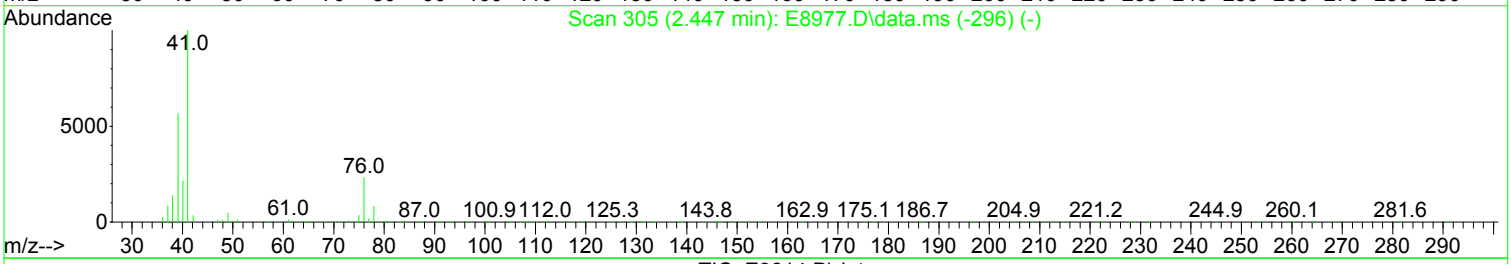
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9814.D
Acq On : 15 Feb 2024 03:51 pm
Operator : K.Ruest
Sample : 200ppb
Misc : WATER ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 16 08:34:16 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 08:34:09 2024
Response via : Initial Calibration







TIC: E9814.D\data.ms

(20) Acetonitrile

2.453min (+ 0.006) 998.84 ug/L

response 1916267

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	21.50	18.03
39.10	57.00	61.46
0.00	0.00	0.00

Manual Integration:

Before

02/16/24

Quantitation Report (Qedit)

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Acq On : 15 Feb 2024 03:51 pm
Operator : K.Ruest
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Misc : WATER ICAL
ALS Vial : 10 Sample Multiplier: 1

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Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 08:34:09 2024
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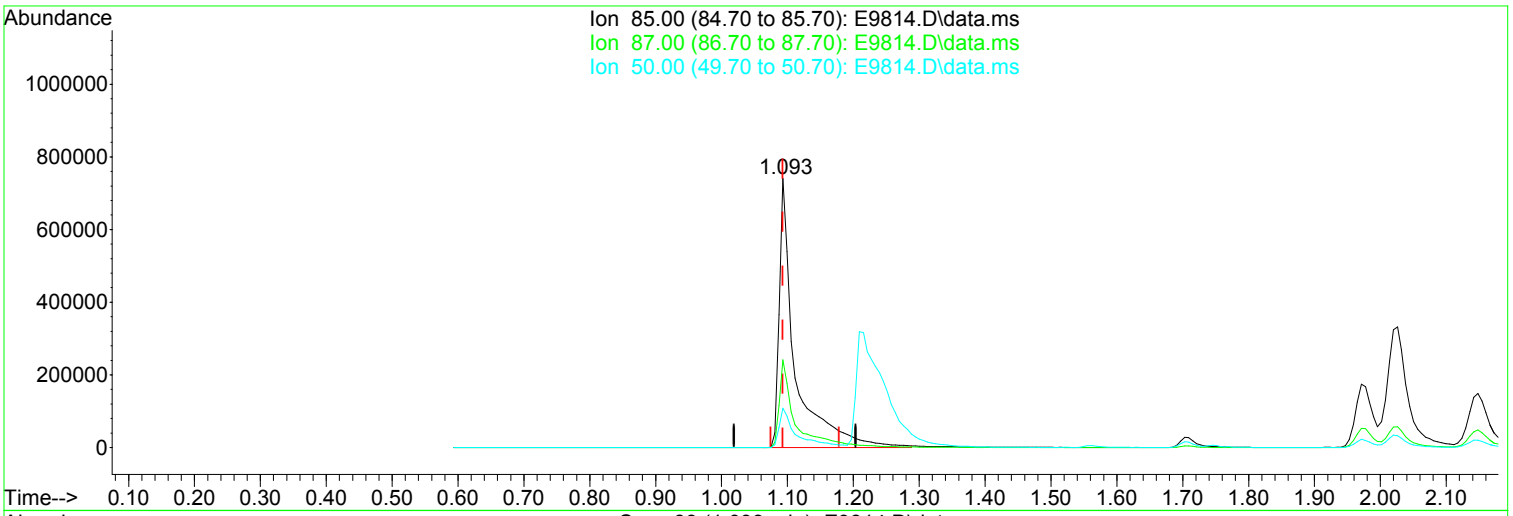

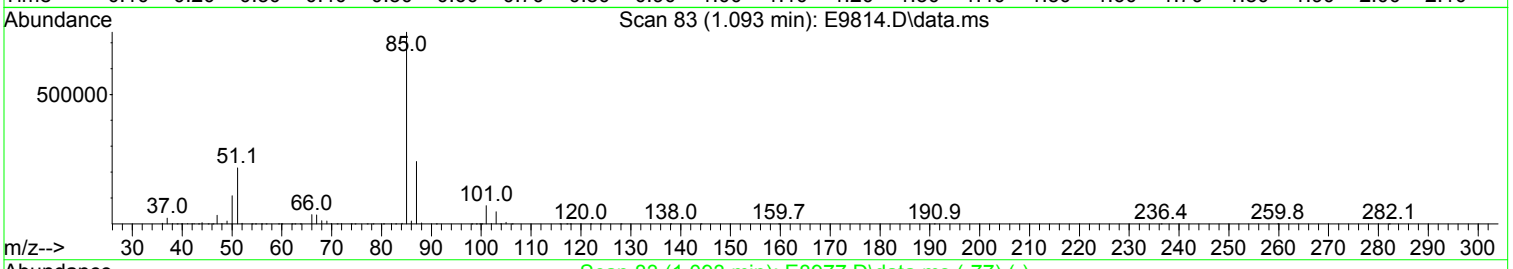

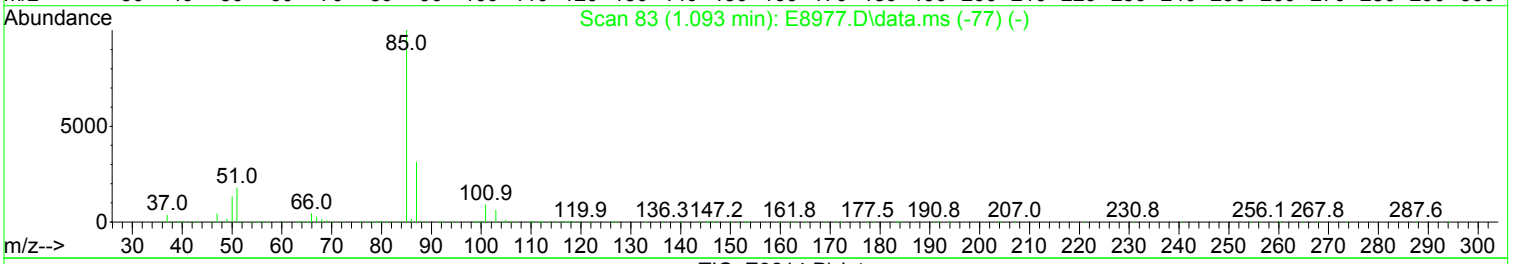

TIC: E9814.D\data.ms

(3) Dichlorodifluoromethane (P)

1.093min (+ 0.000) 245.70 ug/L m

response 1247311

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.10	32.58
50.00	13.20	14.65
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

02/16/24

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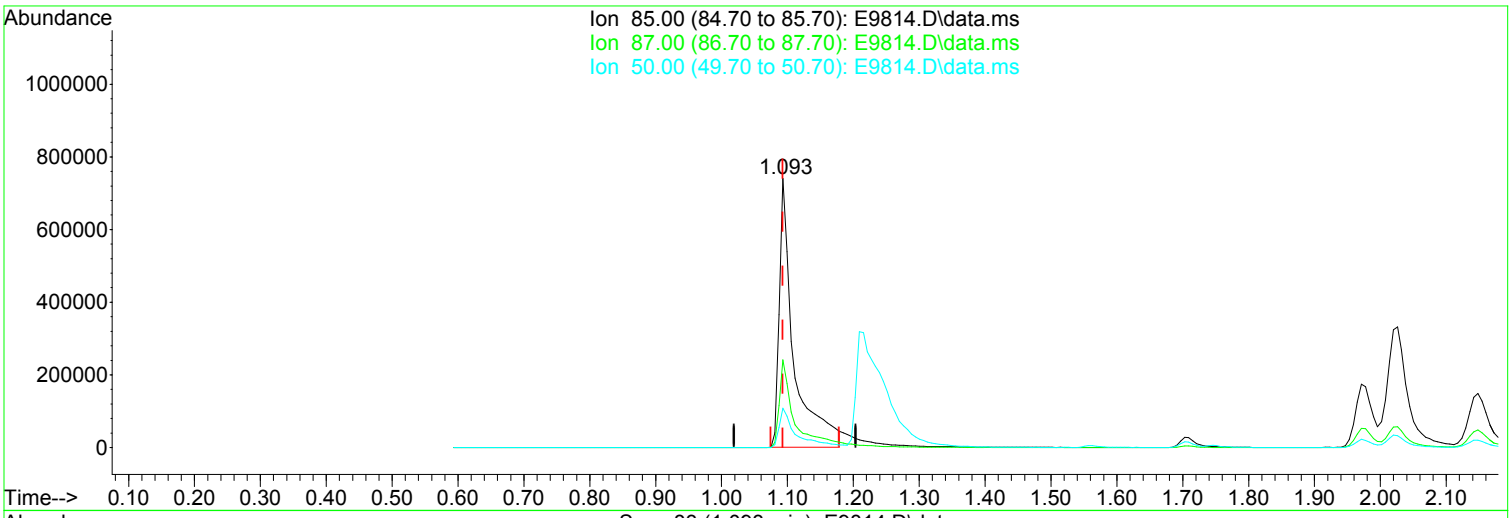

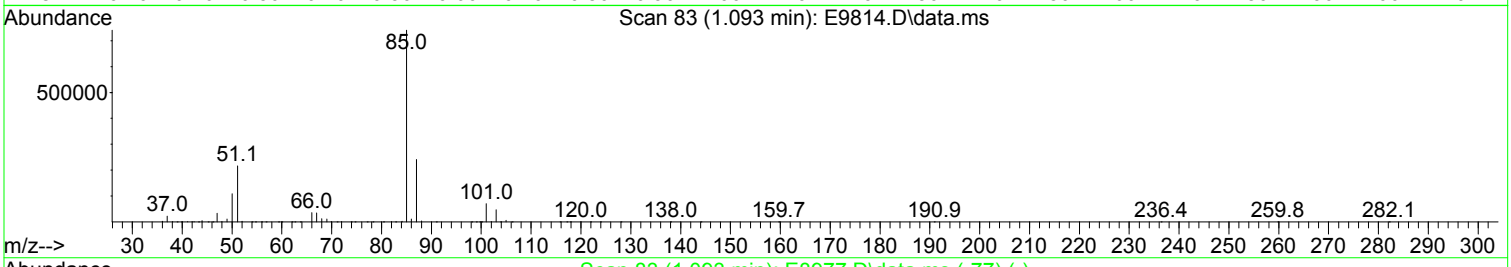

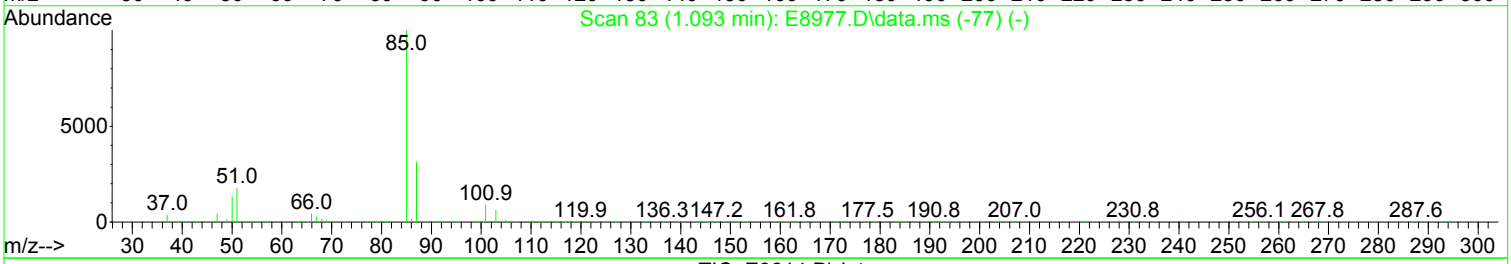

TIC: E9814.D\data.ms

(3) Dichlorodifluoromethane (P)

1.093min (+ 0.000) 224.22 ug/L

response 1138270

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.10	32.58
50.00	13.20	14.65
0.00	0.00	0.00

Manual Integration:

Before

02/16/24

Quantitation Report (Qedit)

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Quant Title : MS#17 - 8260 WATERS 5mL Purge
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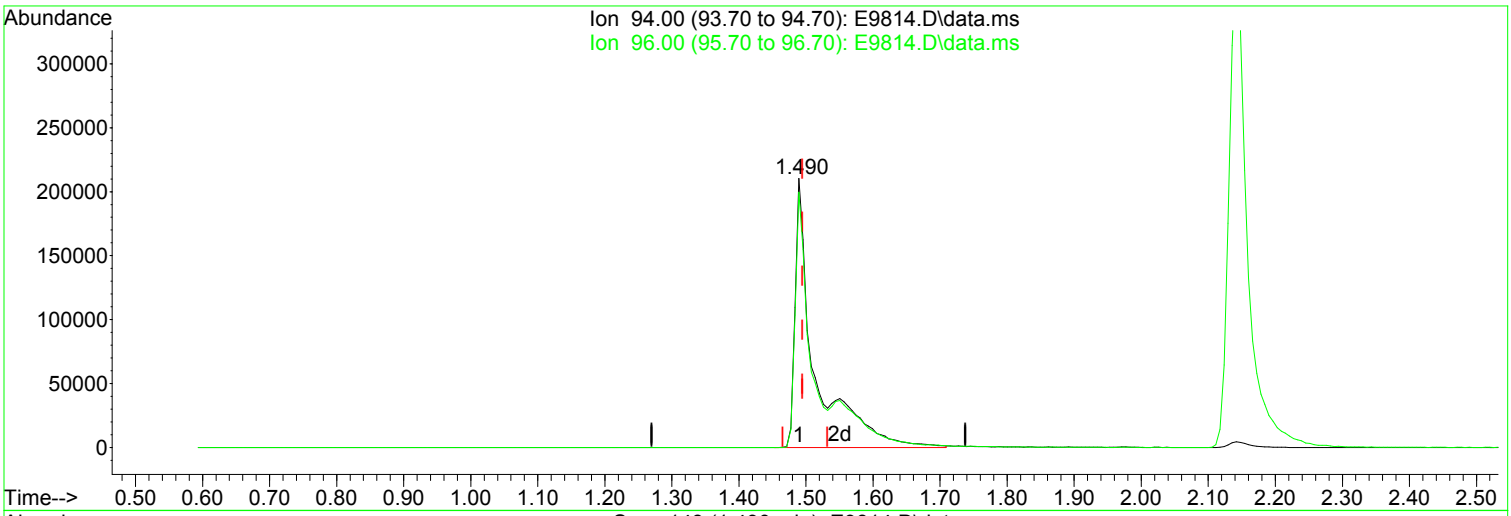

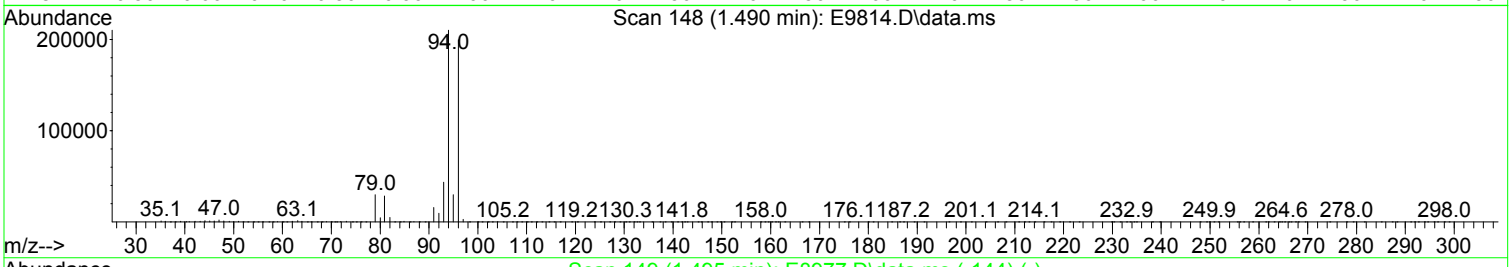

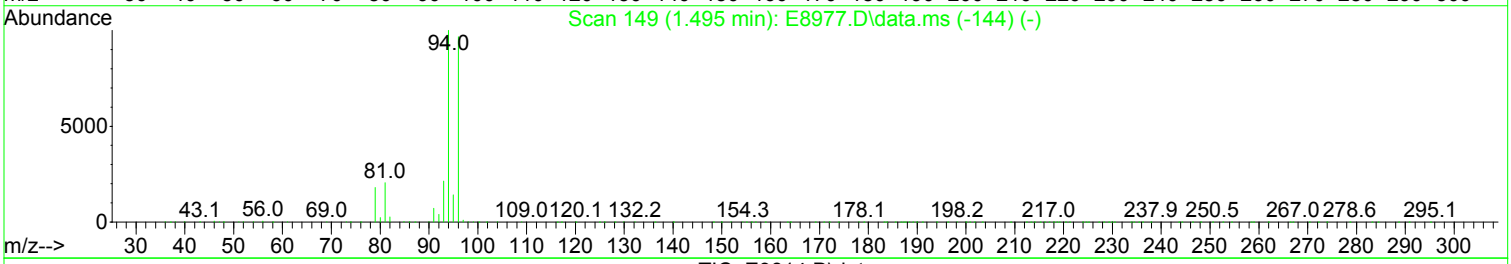

TIC: E9814.D\data.ms

(6) Bromomethane (P)

1.490min (-0.005) 182.96 ug/L m

response 439124

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	96.90	94.98
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak.

02/16/24

Quantitation Report (Qedit)

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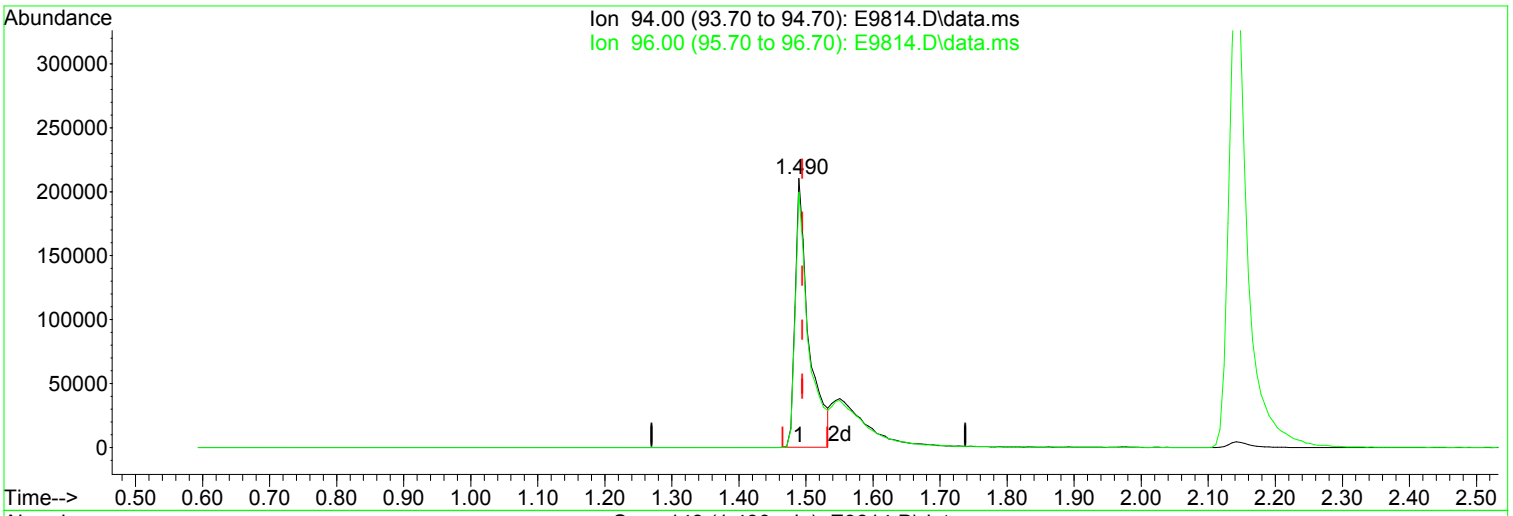

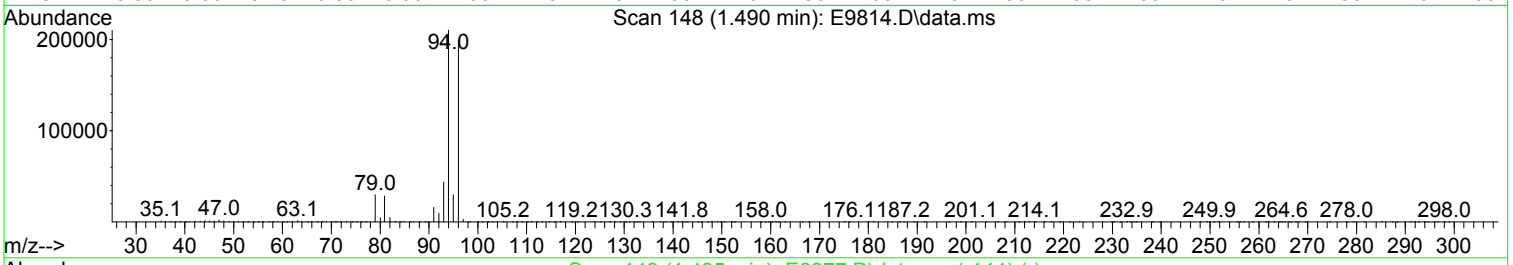

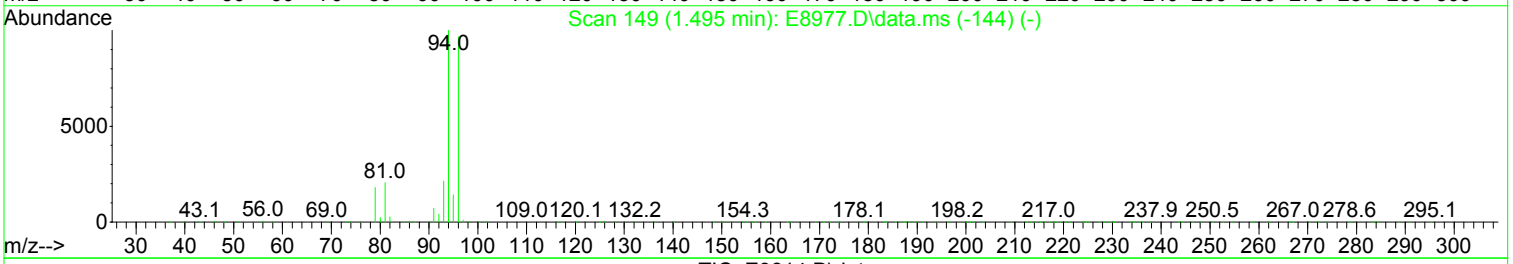

TIC: E9814.D\data.ms

(6) Bromomethane (P)

1.490min (-0.005) 123.93 ug/L

response 297451

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	96.90	94.98
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

02/16/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9814.D
Acq On : 15 Feb 2024 03:51 pm
Operator : K.Ruest
Sample : 200ppb
Misc : WATER ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 16 08:34:16 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 08:34:09 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.086	168	463657	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.245	114	681603	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.622	117	614642	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	11.683	152	306227	50.00	ug/L	#	0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.922	113	229970	52.06	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 104.12%				
48) surr1,1,2-dichloroetha...	5.501	65	266569	50.31	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.62%				
65) SURR3,Toluene-d8	8.104	98	824982	51.84	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 103.68%				
70) SURR2,BFB	10.707	95	312216	51.27	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.54%				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.099	51	875453	200.866	ug/L		97
3) Dichlorodifluoromethane	1.093	85	1247311m	245.695	ug/L		
4) Chloromethane	1.209	50	915448	236.297	ug/L		99
5) Vinyl Chloride	1.282	62	976559	211.524	ug/L		99
6) Bromomethane	1.490	94	439124m	182.958	ug/L		
7) Chloroethane	1.563	64	612647	195.371	ug/L		99
8) Freon 21	1.703	67	1318218	193.195	ug/L		99
9) Trichlorofluoromethane	1.746	101	1305705	206.866	ug/L		99
10) Diethyl Ether	1.965	59	703045	159.129	ug/L		96
11) Freon 123a	1.971	67	763596	188.259	ug/L		100
12) Freon 123	2.026	83	1013684	204.654	ug/L		99
13) Acrolein	2.063	56	916822	1004.116	ug/L		99
14) 1,1-Diclethene	2.142	96	723960	202.152	ug/L		98
15) Freon 113	2.148	101	772908	206.007	ug/L		97
16) Acetone	2.191	43	404634	184.093	ug/L		94
17) 2-Propanol	2.331	45	1460624	3957.150	ug/L		99
18) Iodomethane	2.264	142	1252271	212.831	ug/L		97
19) Carbon Disulfide	2.319	76	2059974	205.959	ug/L		99
20) Acetonitrile	2.447	41	901923m	470.118	ug/L		
21) Allyl Chloride	2.453	76	420636	211.034	ug/L	#	84
22) Methyl Acetate	2.477	43	1052603	185.468	ug/L		99
23) Methylene Chloride	2.563	84	732987	177.802	ug/L		95
24) TBA	2.709	59	2475055	3803.551	ug/L		97
25) Acrylonitrile	2.812	53	1970259	964.003	ug/L		99
26) Methyl-t-Butyl Ether	2.849	73	2399892	194.784	ug/L		99
27) trans-1,2-Dichloroethene	2.837	96	764167	199.507	ug/L		96
28) 1,1-Diclethane	3.306	63	1363039	200.777	ug/L		99
29) Vinyl Acetate	3.392	86	125924	219.711	ug/L	#	81
30) DIPE	3.422	45	2429255	192.274	ug/L		100
31) 2-Chloro-1,3-Butadiene	3.422	53	1322791	194.689	ug/L		95
32) ETBE	3.916	59	2437985	197.061	ug/L		98
33) 2,2-Dichloropropane	4.087	77	1238694	218.455	ug/L		98
34) cis-1,2-Dichloroethene	4.093	96	864588	201.488	ug/L		92
35) 2-Butanone	4.148	43	543468	193.343	ug/L		96
36) Propionitrile	4.239	54	810293	985.417	ug/L		98
37) Bromochloromethane	4.465	130	586799	218.806	ug/L		98
38) Methacrylonitrile	4.483	67	397798	200.406	ug/L		88
39) Tetrahydrofuran	4.556	42	331193	192.455	ug/L		95
40) Chloroform	4.635	83	1366490	190.784	ug/L		99

1st 02/16/24
2nd 02/16/24

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Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 08:34:09 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-Trichloroethane	4.922	97	1329867	211.555	ug/L	97
42) TAME	5.836	73	2209856	196.113	ug/L	98
44) Cyclohexane	5.007	41	753383	206.948	ug/L	98
46) Carbontetrachloride	5.214	117	1195896	220.152	ug/L	99
47) 1,1-Dichloropropene	5.233	75	1003153	193.443	ug/L	98
49) Benzene	5.580	78	2885980	201.738	ug/L	96
50) 1,2-Dichloroethane	5.629	62	1160637	190.926	ug/L	95
51) Iso-Butyl Alcohol	5.647	43	976560	4392.895	ug/L	95
52) n-Heptane	6.098	43	1171849	198.112	ug/L	99
53) 1-Butanol	6.659	56	1593278	13302.547	ug/L	97
54) Trichloroethene	6.574	130	898486	201.823	ug/L	97
55) Methylcyclohexane	6.812	55	1102567	199.820	ug/L	90
56) 1,2-Diclpropane	6.867	63	759031	199.078	ug/L	100
57) Dibromomethane	7.013	93	536954	197.424	ug/L	91
58) 1,4-Dioxane	7.092	88	256892	3841.774	ug/L	91
59) Methyl Methacrylate	7.117	69	650715	210.085	ug/L	89
60) Bromodichloromethane	7.251	83	1114259	212.033	ug/L	100
61) 2-Nitropropane	7.556	41	634359	421.497	ug/L	99
62) 2-Chloroethylvinyl Ether	7.677	63	338156	245.842	ug/L	100
63) cis-1,3-Dichloropropene	7.805	75	1286180	210.034	ug/L	100
64) 4-Methyl-2-pentanone	8.031	43	1032816	197.672	ug/L	98
66) Toluene	8.177	91	3170720	198.904	ug/L	98
67) trans-1,3-Dichloropropene	8.464	75	1225251	210.637	ug/L	99
68) Ethyl Methacrylate	8.610	69	1189858	212.193	ug/L	91
69) 1,1,2-Trichloroethane	8.653	97	772595	198.895	ug/L	99
72) Tetrachloroethene	8.775	164	721848	201.611	ug/L	98
73) 2-Hexanone	8.958	43	771675	203.649	ug/L	97
74) 1,3-Dichloropropane	8.824	76	1210008	188.367	ug/L	95
75) Dibromochloromethane	9.049	129	994825	214.115	ug/L	99
76) N-Butyl Acetate	9.116	43	1601843	200.975	ug/L	99
77) 1,2-Dibromoethane	9.147	107	818116	193.589	ug/L	99
78) 3-Chlorobenzotrifluoride	9.677	180	1296070	197.059	ug/L	99
79) Chlorobenzene	9.647	112	2191524	191.819	ug/L	95
80) 4-Chlorobenzotrifluoride	9.732	180	1153319	191.674	ug/L	98
81) 1,1,1,2-Tetrachloroethane	9.738	131	887367	202.912	ug/L	98
82) Ethylbenzene	9.769	106	1162863	197.438	ug/L	97
83) (m+p)Xylene	9.890	106	2818105	393.086	ug/L	97
84) o-Xylene	10.244	106	1409072	200.257	ug/L	97
85) Styrene	10.262	104	2416868	203.558	ug/L	96
86) Bromoform	10.409	173	678755	228.264	ug/L	97
87) 2-Chlorobenzotrifluoride	10.500	180	1242364	200.896	ug/L	96
88) Isopropylbenzene	10.585	105	3657439	198.902	ug/L	99
89) Cyclohexanone	10.653	55	3787522	3604.470	ug/L	98
90) trans-1,4-Dichloro-2-B...	10.902	53	378382	217.101	ug/L	87
92) 1,1,2,2-Tetrachloroethane	10.854	83	1067843	197.254	ug/L	100
93) Bromobenzene	10.829	156	1003616	198.194	ug/L	91
94) 1,2,3-Trichloropropane	10.878	110	366562	186.440	ug/L	95
95) n-Propylbenzene	10.945	91	4092099	235.335	ug/L	98
96) 2-Chlorotoluene	11.000	91	2471313	194.963	ug/L	97
97) 3-Chlorotoluene	11.055	91	2603856	194.494	ug/L	98
98) 4-Chlorotoluene	11.098	91	2810124	184.841	ug/L	99
99) 1,3,5-Trimethylbenzene	11.098	105	3067983	198.013	ug/L	99
100) tert-Butylbenzene	11.366	119	2727070	200.962	ug/L	99
101) 1,2,4-Trimethylbenzene	11.408	105	3131252	205.798	ug/L	100
102) 3,4-Dichlorobenzotrifl...	11.476	214	987820	208.058	ug/L	99
103) sec-Butylbenzene	11.549	105	3850528	201.525	ug/L	99

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
104) p-Isopropyltoluene	11.677	119	3458823	207.066 ug/L	98
105) 1,3-Dclbenz	11.628	146	1873989	198.971 ug/L	99
106) 1,4-Dclbenz	11.707	146	1869195	193.470 ug/L	97
107) 2,4-Dichlorobenzotrifl...	11.762	214	901924	201.444 ug/L	99
108) 2,5-Dichlorobenzotrifl...	11.805	214	990608	205.192 ug/L	97
109) n-Butylbenzene	12.006	91	2982140	212.521 ug/L	98
110) 1,2-Dclbenz	12.006	146	1808847	198.086 ug/L	98
111) 1,2-Dibromo-3-chloropr...	12.634	157	316678	235.154 ug/L	93
112) Trielution Dichlorotol...	12.756	125	5066889	621.312 ug/L	97
113) 1,3,5-Trichlorobenzene	12.805	180	1385926	208.497 ug/L	99
114) Coelution Dichlorotoluene	13.079	125	3547755	413.687 ug/L	97
115) 1,2,4-Tcbenzene	13.286	180	1337856	217.301 ug/L	99
116) Hexachlorobt	13.426	225	662142	215.611 ug/L	94
117) Naphthalen	13.475	128	3773422	232.253 ug/L	98
118) 1,2,3-Tclbenzene	13.664	180	1286521	224.737 ug/L	99
119) 2,4,5-Trichlorotoluene	14.256	159	1006808	233.961 ug/L	97
120) 2,3,6-Trichlorotoluene	14.335	159	937646	231.923 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9814.D
Acq On : 15 Feb 2024 03:51 pm
Operator : K.Ruest
Sample : 200ppb
Misc : WATER ICAL
ALS Vial : 10 Sample Multiplier: 1

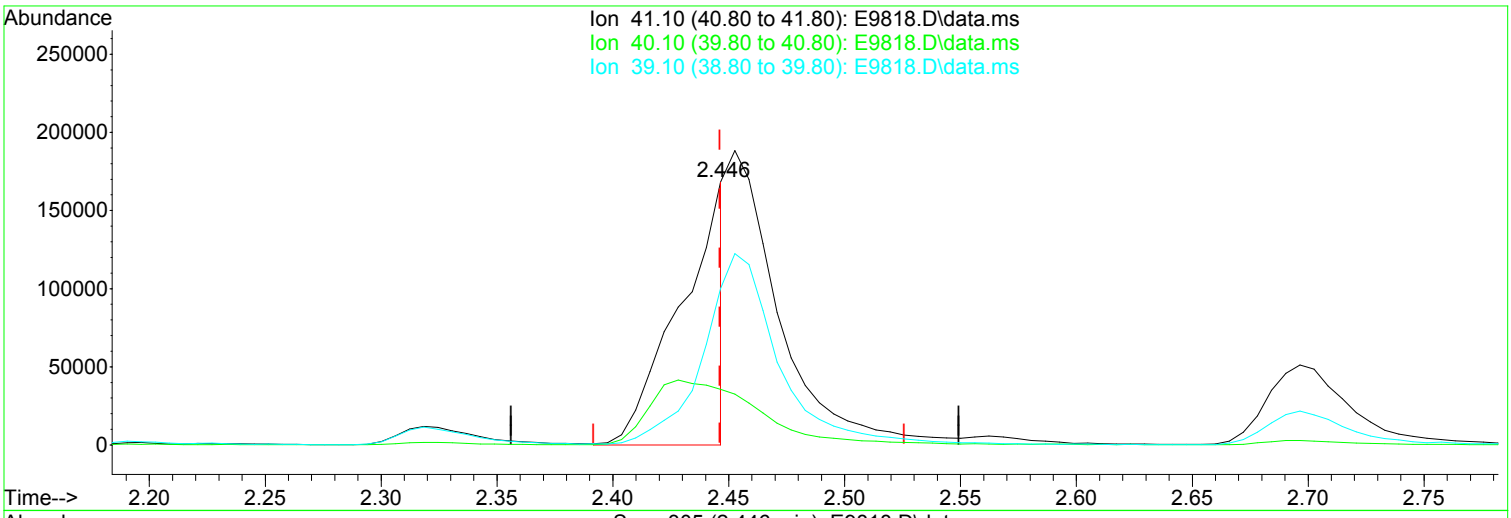
Quant Time: Feb 16 08:34:16 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 08:34:09 2024
Response via : Initial Calibration

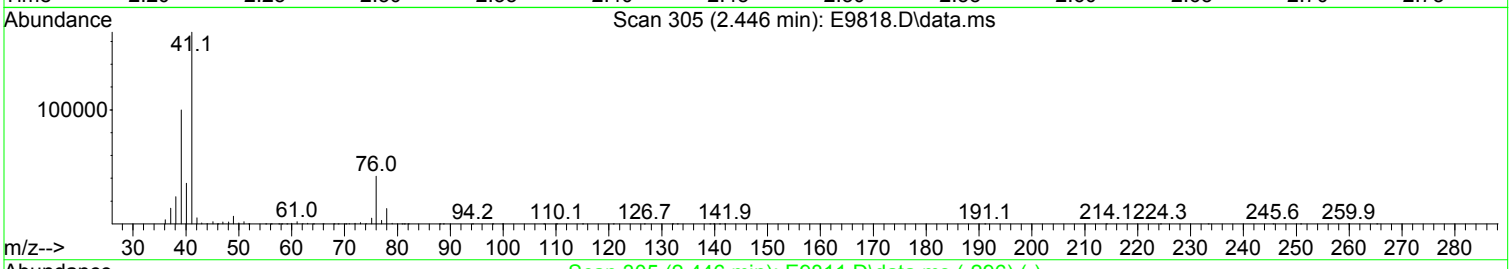
1st 02/16/24
2nd 02/16/24

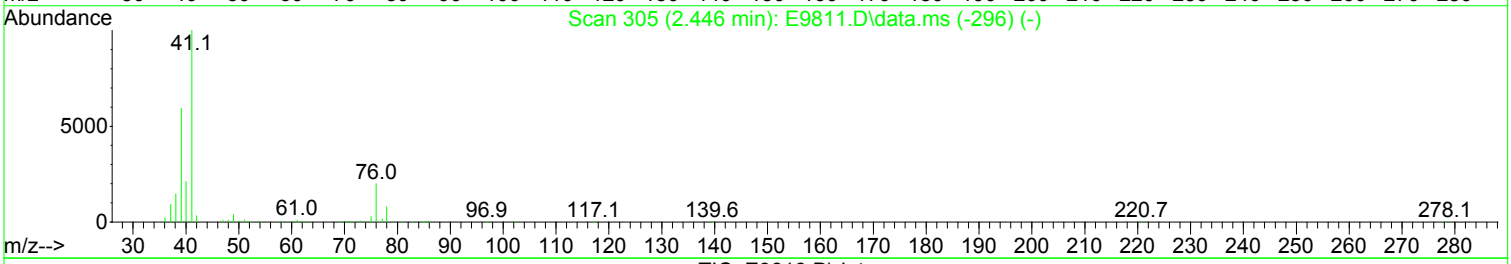
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9818.D
Acq On : 15 Feb 2024 05:23 pm
Operator : K.Ruest
Sample : ICV50
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 16 11:02:20 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration







TIC: E9818.D\data.ms

(20) Acetonitrile

2.446min (+ 0.000) 260.48 ug/L m

response 230538

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	21.20	21.21
39.10	59.50	59.46
0.00	0.00	0.00

Manual Integration:

After

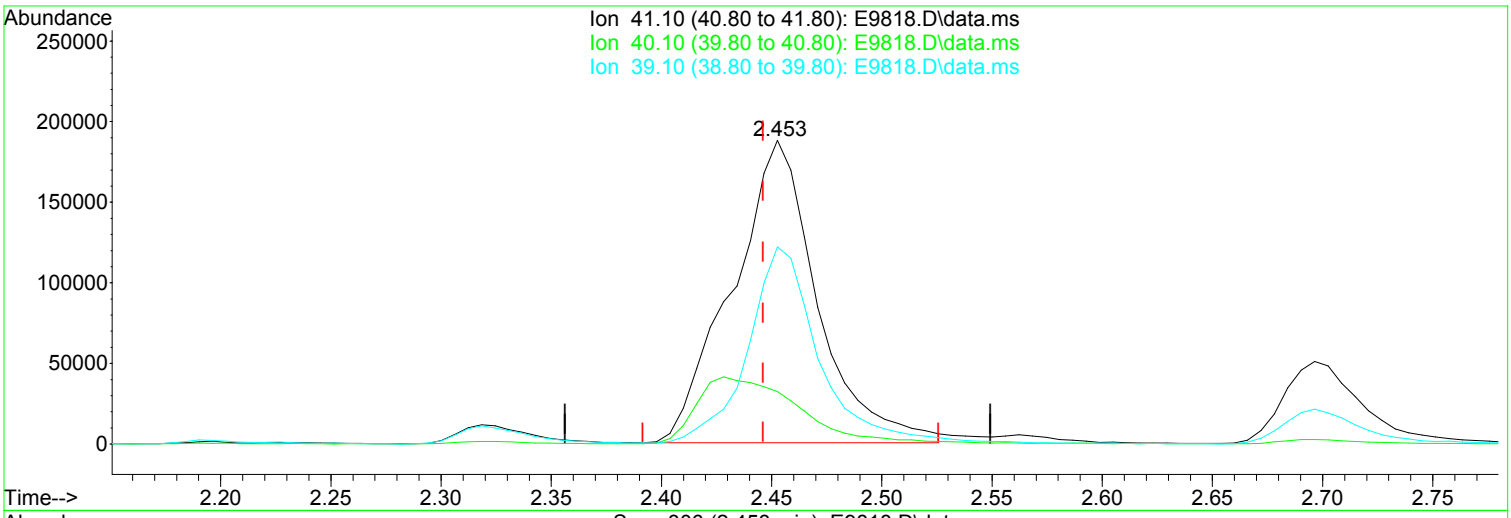
Poor integration.

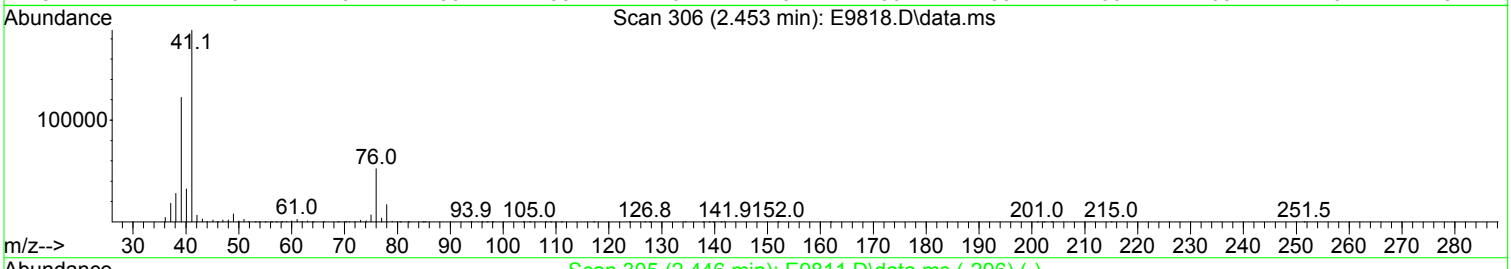
02/16/24

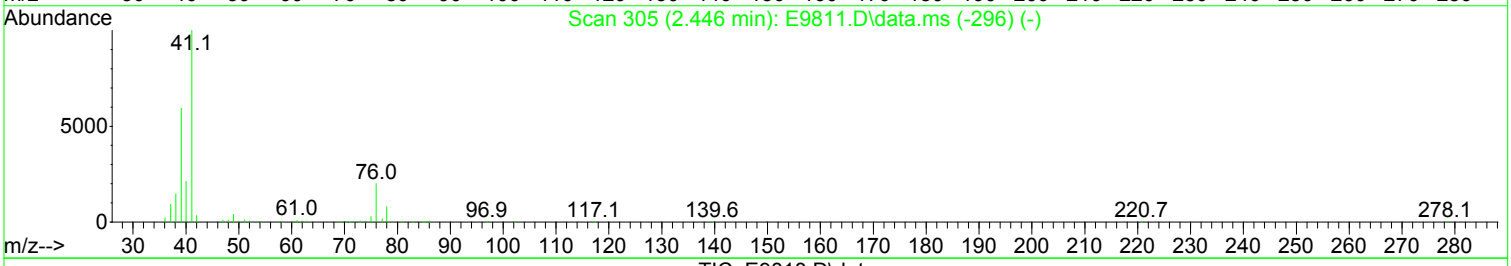
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9818.D
Acq On : 15 Feb 2024 05:23 pm
Operator : K.Ruest
Sample : ICV50
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 16 10:12:09 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration







TIC: E9818.D\data.ms

(20) Acetonitrile

2.453min (+ 0.006) 569.19 ug/L

response 503760

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	21.20	17.27
39.10	59.50	64.98
0.00	0.00	0.00

Manual Integration:

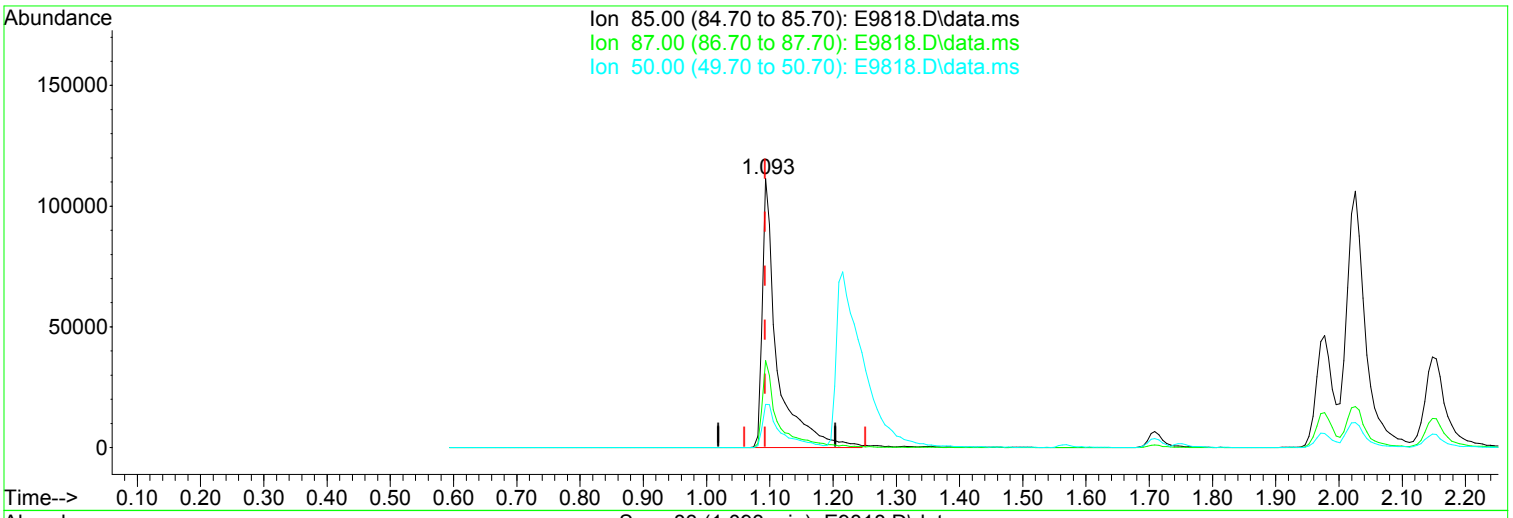
Before

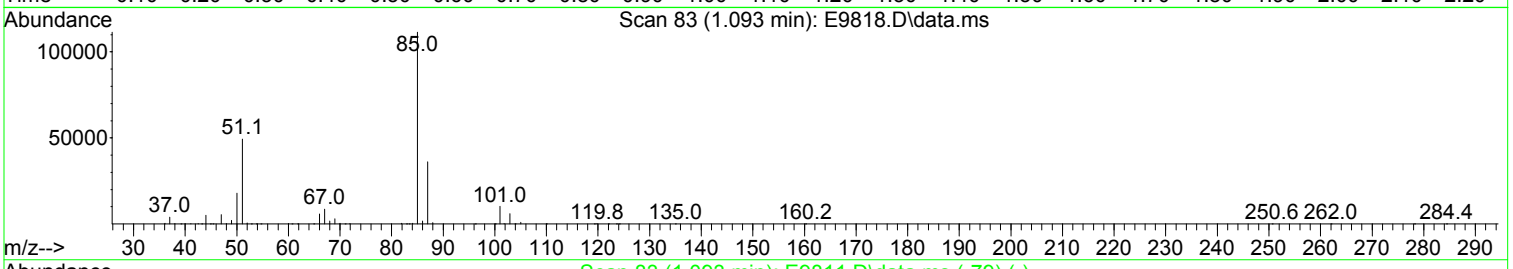
02/16/24

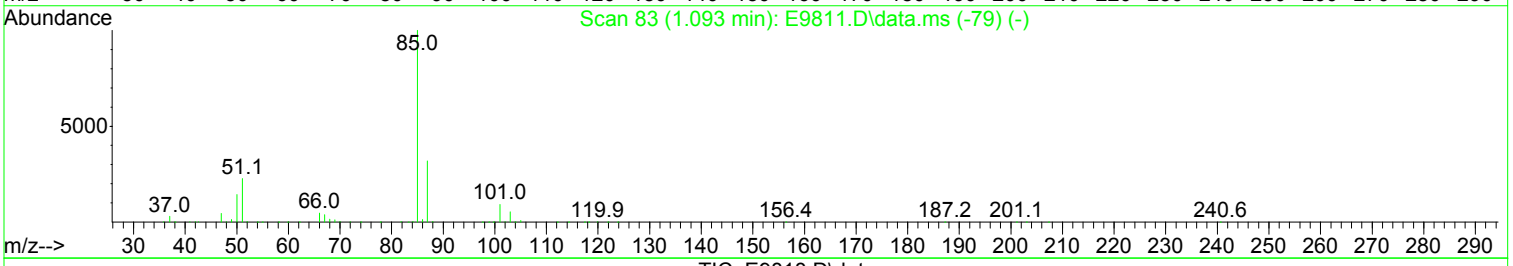
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9818.D
Acq On : 15 Feb 2024 05:23 pm
Operator : K.Ruest
Sample : ICV50
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 16 11:02:20 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration







TIC: E9818.D\data.ms

(3) Dichlorodifluoromethane (P)

1.093min (+ 0.000) 30.32 ug/L m

response 180877

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.90	32.34
50.00	14.40	16.01
0.00	0.00	0.00

Manual Integration:

After

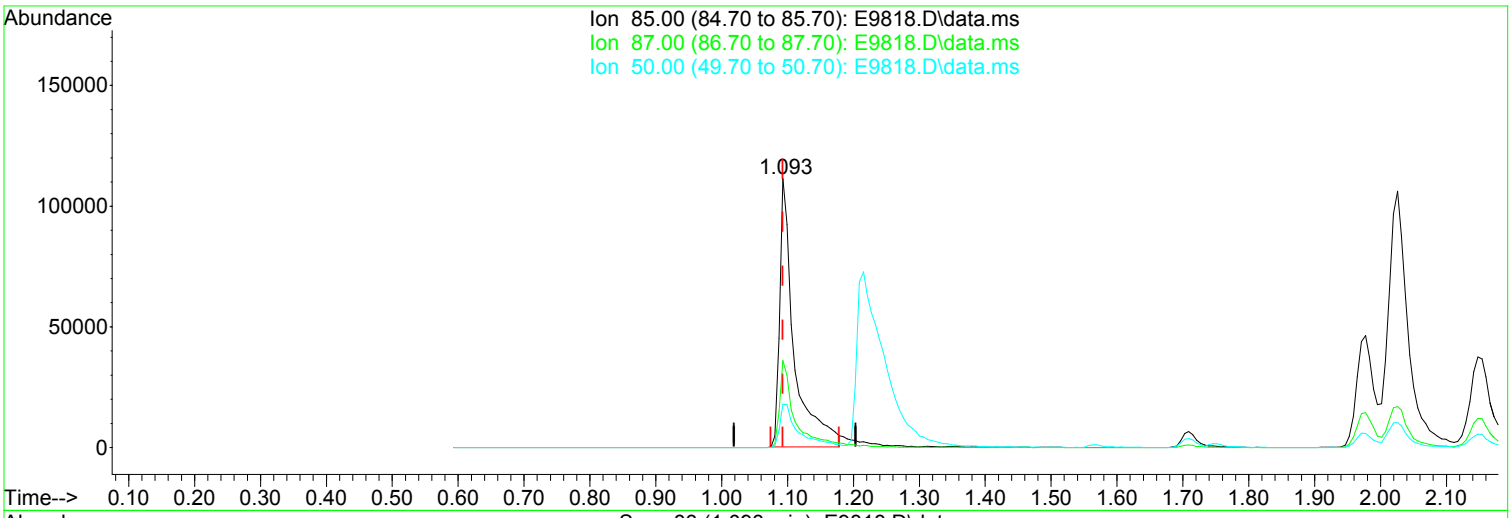
Poor integration.

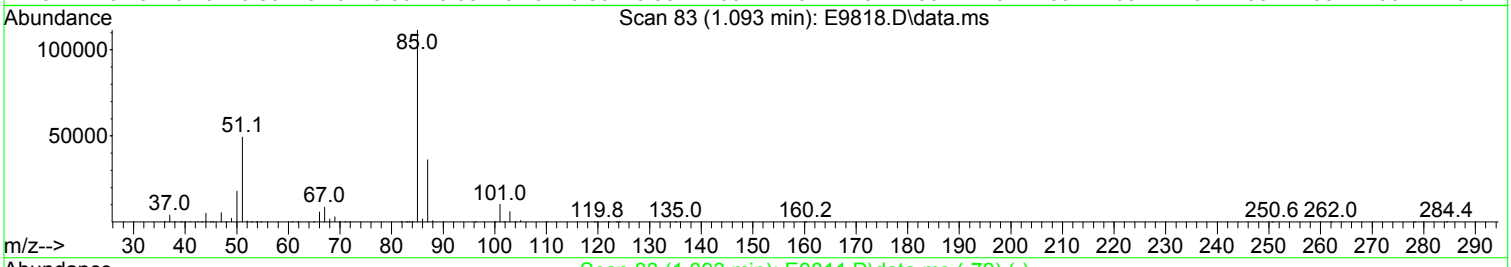
02/16/24

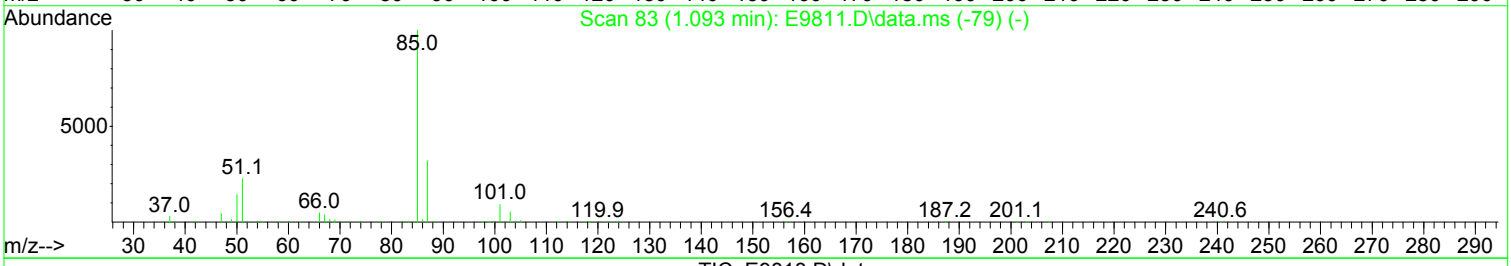
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\021524\
Data File : E9818.D
Acq On : 15 Feb 2024 05:23 pm
Operator : K.Ruest
Sample : ICV50
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 16 10:12:09 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W021524.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Fri Feb 16 09:34:06 2024
Response via : Initial Calibration







TIC: E9818.D\data.ms

(3) Dichlorodifluoromethane (P)

1.093min (+ 0.000) 28.47 ug/L

response 169834

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	31.90	32.34
50.00	14.40	16.01
0.00	0.00	0.00

Manual Integration:

Before

02/16/24

Analysis: 8260+624 Waters | Analyst: KDnost | pH strips: N/A | Tune Method: W021524

Date: 2/15/24 | Balance ID: N/A | ResCl strips: N/A | Run Method: L

Instr. 17 | 50 mL Class A used for dilution FV | Syringes: 231174 + 202106 | LIMS Run#: ICAL

Data Path: j:\acqudata\msvoa(InstID)\(Date)

Pos.	Sample	Diln.	Diln. Prep./		RL	Vial	HS	Cl	pH	File#	OK?	Comments
1	BLK									E9802		
2	↓									E9803		
3	TUNE		Atomx							E9804	YT	(autotune)
1	1 BLK	(5ppm)	(500ppm)	SW(SD) FV						E9805	YB	
2	0.5	5mL	—	— 50mL						E9806	Y	
3	1.0	10mL	—	—						E9807	Y	
4	2.0	20mL	—	—						E9808	Y	
5	5.0	50mL	—	1mL						E9809	Y	
6	20	—	2mL	2mL						E9810	Y	
7	50	—	5mL	5mL						E9811	Y	
8	100	—	10mL	10mL						E9812	Y	
9	150	—	15mL	20mL						E9813	Y	
10	200	—	20mL	— ↓						E9814	Y	
11	BLK									E9815	—	
12	↓									E9816	—	
13	↓									E9817		
14	ICV.50									E9818	YQ	
15	BLK									E9819	—	
16	↓									E9820	—	

(CN) KDR 2/16/24

All samples = 5 mL + 5 uL combined IS/ 5 mL purged

Combined IS/Surr :

Surrogate SD : 233407

Internal Std SD : 233408

Reagents:

500 Primary DCC : 232984
Primary Fr : 233685
Primary Tb : 233701 — 10mL → 1.0mL MeOH
Primary BSL : 233702 — = 5ppm
Primary 2,6 : 233450
JCT

300 Secondary Fr : 233493 -12.5uL
500 Secondary DCC : 232672
Secondary Tb : 233454 — 5uL
Secondary BSL : 233494
Secondary 2,6 : 233457
JCT

5Dmls = ICV.50

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2401280
Project: Olean OU3 - 6 Month Sampling 2024 **Calibration Date:** 2/20/2024

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2400038 **Signal ID:** 1
Instrument ID: R-MS-14

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC2400038-01	0.5 PPB STD	I:\ACQUDATA\MSVOA14\Data\022024\F8256.D	02/20/2024 16:55
02	RC2400038-02	1.0 PPB STD	I:\ACQUDATA\MSVOA14\Data\022024\F8257.D	02/20/2024 17:18
03	RC2400038-03	2.0 PPB STD	I:\ACQUDATA\MSVOA14\Data\022024\F8258.D	02/20/2024 17:40
04	RC2400038-04	5.0 PPB STD	I:\ACQUDATA\MSVOA14\Data\022024\F8259.D	02/20/2024 18:02
05	RC2400038-05	20 PPB STD	I:\ACQUDATA\MSVOA14\Data\022024\F8260.D	02/20/2024 18:25
06	RC2400038-06	50 PPB STD	I:\ACQUDATA\MSVOA14\Data\022024\F8261.D	02/20/2024 18:47
07	RC2400038-07	100 PPB STD	I:\ACQUDATA\MSVOA14\Data\022024\F8262.D	02/20/2024 19:09
08	RC2400038-08	150 PPB STD	I:\ACQUDATA\MSVOA14\Data\022024\F8263.D	02/20/2024 19:32
09	RC2400038-09	200 PPB STD	I:\ACQUDATA\MSVOA14\Data\022024\F8264.D	02/20/2024 19:54

Analyte

4-Bromofluorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.5227	05	20.000	0.4524	06	50.000	0.5225	07	100.000	0.4991
08	200.000	0.4793									

Dibromofluoromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.3663	05	20.000	0.3001	06	50.000	0.3189	07	100.000	0.3124
08	200.000	0.305									

Tetrachloroethene (PCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2186	02	1.000	0.1967	03	2.000	0.2263	04	5.000	0.2324
05	20.000	0.2404	06	50.000	0.2588	07	100.000	0.2406	08	150.000	0.2573
09	200.000	0.2704									

Toluene-d8

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	1.482	05	20.000	1.219	06	50.000	1.302	07	100.000	1.278
08	200.000	1.238									

Trichloroethene (TCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3018	02	1.000	0.2767	03	2.000	0.3097	04	5.000	0.2821
05	20.000	0.2937	06	50.000	0.3216	07	100.000	0.2891	08	150.000	0.3067
09	200.000	0.3153									

Vinyl Chloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6966	02	1.000	0.6468	03	2.000	0.6958	04	5.000	0.6123
05	20.000	0.6285	06	50.000	0.6172	07	100.000	0.5172	08	150.000	0.4967
09	200.000	0.5507									

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2401280
Project: Olean OU3 - 6 Month Sampling 2024 **Calibration Date:** 2/20/2024

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2400038 **Signal ID:** 1
Instrument ID: R-MS-14

Analyte

cis-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5486	02	1.000	0.5507	03	2.000	0.4399	04	5.000	0.5227
05	20.000	0.5164	06	50.000	0.5366	07	100.000	0.4748	08	150.000	0.4955
09	200.000	0.4979									

trans-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3568	02	1.000	0.4281	03	2.000	0.4698	04	5.000	0.4107
05	20.000	0.4063	06	50.000	0.4546	07	100.000	0.4307	08	150.000	0.4475
09	200.000	0.4576									

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2401280
Project: Olean OU3 - 6 Month Sampling 2024 **Calibration Date:** 2/20/2024

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2400038 **Signal ID:** 1
Instrument ID: R-MS-14

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
4-Bromofluorobenzene	SURR	Average RF	% RSD	6.1	≤20	0.4952	
Dibromofluoromethane	SURR	Average RF	% RSD	8.3	≤20	0.3206	
Tetrachloroethene (PCE)	TRG	Average RF	% RSD	9.5	≤20	0.2379	0.200
Toluene-d8	SURR	Average RF	% RSD	8.0	≤20	1.304	
Trichloroethene (TCE)	TRG	Average RF	% RSD	5.1	≤20	0.2997	0.200
Vinyl Chloride	TRG	Average RF	% RSD	11.9	≤20	0.6069	0.100
cis-1,2-Dichloroethene	TRG	Average RF	% RSD	7.1	≤20	0.5092	0.100
trans-1,2-Dichloroethene	TRG	Average RF	% RSD	8.0	≤20	0.4291	0.100

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2401280
Project: Olean OU3 - 6 Month Sampling 2024 **Calibration Date:** 2/15/2024

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2400037 **Signal ID:** 1
Instrument ID: R-MS-17

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC2400037-01	0.5ppb	I:\ACQUDATA\MSVOA17\Data\021524\E9806.D	02/15/2024 12:47
02	RC2400037-02	1.0ppb	I:\ACQUDATA\MSVOA17\Data\021524\E9807.D	02/15/2024 13:10
03	RC2400037-03	2.0ppb	I:\ACQUDATA\MSVOA17\Data\021524\E9808.D	02/15/2024 13:33
04	RC2400037-04	5.0ppb	I:\ACQUDATA\MSVOA17\Data\021524\E9809.D	02/15/2024 13:56
05	RC2400037-05	20ppb	I:\ACQUDATA\MSVOA17\Data\021524\E9810.D	02/15/2024 14:19
06	RC2400037-06	50ppb	I:\ACQUDATA\MSVOA17\Data\021524\E9811.D	02/15/2024 14:42
07	RC2400037-07	100ppb	I:\ACQUDATA\MSVOA17\Data\021524\E9812.D	02/15/2024 15:05
08	RC2400037-08	150ppb	I:\ACQUDATA\MSVOA17\Data\021524\E9813.D	02/15/2024 15:28
09	RC2400037-09	200ppb	I:\ACQUDATA\MSVOA17\Data\021524\E9814.D	02/15/2024 15:51

Analyte

4-Bromofluorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.503	05	20.000	0.3966	06	50.000	0.4519	07	100.000	0.4496
08	200.000	0.4326									

Dibromofluoromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.3432	05	20.000	0.2948	06	50.000	0.3369	07	100.000	0.3302
08	200.000	0.3153									

Tetrachloroethene (PCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3182	02	1.000	0.2826	03	2.000	0.3082	04	5.000	0.3147
05	20.000	0.2507	06	50.000	0.2892	07	100.000	0.2842	08	150.000	0.2823
09	200.000	0.2936									

Toluene-d8

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	1.282	05	20.000	1.079	06	50.000	1.203	07	100.000	1.172
08	200.000	1.1									

Trichloroethene (TCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3383	02	1.000	0.3196	03	2.000	0.3404	04	5.000	0.3464
05	20.000	0.2888	06	50.000	0.3285	07	100.000	0.3234	08	150.000	0.3272
09	200.000	0.3295									

Vinyl Chloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4664	02	1.000	0.5114	03	2.000	0.5125	04	5.000	0.5023
05	20.000	0.4669	06	50.000	0.5333	07	100.000	0.5218	08	150.000	0.5251
09	200.000	0.5266									

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2401280
Project: Olean OU3 - 6 Month Sampling 2024 **Calibration Date:** 2/15/2024

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2400037 **Signal ID:** 1
Instrument ID: R-MS-17

Analyte

cis-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4784	02	1.000	0.4654	03	2.000	0.4528	04	5.000	0.4815
05	20.000	0.4231	06	50.000	0.4695	07	100.000	0.4697	08	150.000	0.4615
09	200.000	0.4662									

trans-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4208	02	1.000	0.4407	03	2.000	0.4243	04	5.000	0.4375
05	20.000	0.3692	06	50.000	0.4189	07	100.000	0.4171	08	150.000	0.4138
09	200.000	0.412									

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2401280
Project: Olean OU3 - 6 Month Sampling 2024 **Calibration Date:** 2/15/2024

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2400037 **Signal ID:** 1
Instrument ID: R-MS-17

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
4-Bromofluorobenzene	SURR	Average RF	% RSD	8.6	≤20	0.4467	
Dibromofluoromethane	SURR	Average RF	% RSD	6.0	≤20	0.3241	
Tetrachloroethene (PCE)	TRG	Average RF	% RSD	7.1	≤20	0.2915	0.200
Toluene-d8	SURR	Average RF	% RSD	7.0	≤20	1.167	
Trichloroethene (TCE)	TRG	Average RF	% RSD	5.1	≤20	0.3269	0.200
Vinyl Chloride	TRG	Average RF	% RSD	4.9	≤20	0.5073	0.100
cis-1,2-Dichloroethene	TRG	Average RF	% RSD	3.7	≤20	0.4631	0.100
trans-1,2-Dichloroethene	TRG	Average RF	% RSD	4.9	≤20	0.4172	0.100

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2401280
Project: Olean OU3 - 6 Month Sampling 2024 **Calibration Date:** 2/20/2024

Initial Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2400038 **Signal ID:** 1
Instrument ID: R-MS-14

#	Lab Code	Sample Name	File Location	Acquisition Date
10	RC2400038-10	50 PPB ICV	I:\ACQUDATA\MSVOA14\Data\022024\F8268.D	02/20/2024 21:23

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Tetrachloroethene (PCE)	50.0	54.5	2.379E-1	2.593E-1	8.98	±30	Average RF
Trichloroethene (TCE)	50.0	52.7	2.997E-1	3.157E-1	5.37	±30	Average RF
Vinyl Chloride	50.0	41.3	6.069E-1	5.013E-1	-17.394	±30	Average RF
cis-1,2-Dichloroethene	50.0	52.2	5.092E-1	5.312E-1	4.32	±30	Average RF
trans-1,2-Dichloroethene	50.0	48.8	4.291E-1	4.186E-1	-2.442	±30	Average RF

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	51.3	4.952E-1	5.08E-1	2.58	±30	Average RF
Dibromofluoromethane	50.0	49.4	3.206E-1	3.17E-1	-1.106	±30	Average RF
Toluene-d8	50.0	49.2	1.304E0	1.284E0	-1.502	±30	Average RF

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2401280
Project: Olean OU3 - 6 Month Sampling 2024 **Calibration Date:** 2/15/2024

Initial Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2400037 **Signal ID:** 1
Instrument ID: R-MS-17

#	Lab Code	Sample Name	File Location	Acquisition Date
10	RC2400037-10	ICV50	I:\ACQUDATA\MSVOA17\Data\021524\E9818.D	02/15/2024 17:23

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Tetrachloroethene (PCE)	50.0	53.5	2.915E-1	3.121E-1	7.05	±30	Average RF
Trichloroethene (TCE)	50.0	52.1	3.269E-1	3.409E-1	4.27	±30	Average RF
Vinyl Chloride	50.0	41.6	5.073E-1	4.223E-1	-16.771	±30	Average RF
cis-1,2-Dichloroethene	50.0	52.9	4.631E-1	4.9E-1	5.80	±30	Average RF
trans-1,2-Dichloroethene	50.0	50.1	4.172E-1	4.181E-1	0.222	±30	Average RF

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	49.4	4.467E-1	4.414E-1	-1.190	±30	Average RF
Dibromofluoromethane	50.0	50.7	3.241E-1	3.289E-1	1.47	±30	Average RF
Toluene-d8	50.0	50.2	1.167E0	1.173E0	0.442	±30	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Analyzed:**	02/23/24 11:10

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	**Calibration Date:**	2/20/2024
File ID:	I:\ACQUDATA\MSVOA14\Data\022324\F8366.D\	**Calibration ID:**	RC2400038
Signal ID:	1	**Analysis Lot:**	833205
		Units:	ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Tetrachloroethene (PCE)	50.0	53.5	0.2379	0.2545	7.0	NA	±20	Average RF
Trichloroethene (TCE)	50.0	49.7	0.2997	0.298	-0.5	NA	±20	Average RF
Vinyl Chloride	50.0	45.0	0.6069	0.546	-10.0	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	48.2	0.5092	0.4911	-3.6	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	49.4	0.4291	0.4244	-1.1	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	48.3	0.4952	0.4779	-3.5	NA	±20	Average RF
Dibromofluoromethane	50.0	48.1	0.3206	0.3082	-3.8	NA	±20	Average RF
Toluene-d8	50.0	47.5	1.3037	1.2372	-5.1	NA	±20	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Analyzed:**	02/25/24 13:48

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	**Calibration Date:**	2/20/2024
File ID:	I:\ACQUDATA\MSVOA14\Data\022524\F8398.D\	**Calibration ID:**	RC2400038
Signal ID:	1	**Analysis Lot:**	833305
		Units:	ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Tetrachloroethene (PCE)	50.0	56.1	0.2379	0.2669	12.2	NA	±20	Average RF
Trichloroethene (TCE)	50.0	50.3	0.2997	0.3017	0.7	NA	±20	Average RF
Vinyl Chloride	50.0	46.6	0.6069	0.5659	-6.7	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	48.7	0.5092	0.4959	-2.6	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	49.5	0.4291	0.4252	-0.9	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	47.7	0.4952	0.4725	-4.6	NA	±20	Average RF
Dibromofluoromethane	50.0	47.6	0.3206	0.3051	-4.8	NA	±20	Average RF
Toluene-d8	50.0	46.5	1.3037	1.2133	-6.9	NA	±20	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Analyzed:**	02/26/24 09:56

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	**Calibration Date:**	2/15/2024
File ID:	I:\ACQUDATA\MSVOA17\Data\022624\E9984.D\	**Calibration ID:**	RC2400037
Signal ID:	1	**Analysis Lot:**	833324
		Units:	ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Tetrachloroethene (PCE)	50.0	41.7	0.2915	0.2429	-16.7	NA	±20	Average RF
Trichloroethene (TCE)	50.0	42.4	0.3269	0.2773	-15.2	NA	±20	Average RF
Vinyl Chloride	50.0	40.7	0.5073	0.4127	-18.7	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	44.8	0.4631	0.4152	-10.3	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	42.2	0.4172	0.3521	-15.6	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	50.5	0.4467	0.4512	1.0	NA	±20	Average RF
Dibromofluoromethane	50.0	51.1	0.3241	0.3311	2.2	NA	±20	Average RF
Toluene-d8	50.0	49.8	1.1674	1.1631	-0.4	NA	±20	Average RF

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: **Analysis Lot:**833205
Instrument ID:R-MS-14

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\MSVOA14\Data\022324\F8365.D\	ZZZZZZZ	ZZZZZZZ	2/23/2024	10:34:00	
I:\ACQUDATA\MSVOA14\Data\022324\F8366.D\	Continuing Calibration Verification	RQ2402015-02	2/23/2024	11:10:00	
I:\ACQUDATA\MSVOA14\Data\022324\F8367.D\	Lab Control Sample	RQ2402015-03	2/23/2024	11:47:00	
I:\ACQUDATA\MSVOA14\Data\022324\F8370.D\	Method Blank	RQ2402015-04	2/23/2024	13:06:00	
I:\ACQUDATA\MSVOA14\Data\022324\F8371.D\	ZZZZZZZ	ZZZZZZZ	2/23/2024	13:38:00	
I:\ACQUDATA\MSVOA14\Data\022324\F8372.D\	ZZZZZZZ	ZZZZZZZ	2/23/2024	14:00:00	
I:\ACQUDATA\MSVOA14\Data\022324\F8373.D\	ZZZZZZZ	ZZZZZZZ	2/23/2024	14:23:00	
I:\ACQUDATA\MSVOA14\Data\022324\F8374.D\	ZZZZZZZ	ZZZZZZZ	2/23/2024	14:45:00	
I:\ACQUDATA\MSVOA14\Data\022324\F8375.D\	ZZZZZZZ	ZZZZZZZ	2/23/2024	15:07:00	
I:\ACQUDATA\MSVOA14\Data\022324\F8376.D\	ZZZZZZZ	ZZZZZZZ	2/23/2024	15:30:00	
I:\ACQUDATA\MSVOA14\Data\022324\F8377.D\	ZZZZZZZ	ZZZZZZZ	2/23/2024	15:52:00	
I:\ACQUDATA\MSVOA14\Data\022324\F8379.D\	OLN-TB002-T007	R2401280-005	2/23/2024	16:48:00	
I:\ACQUDATA\MSVOA14\Data\022324\F8380.D\	OLN-TB003-T007	R2401280-007	2/23/2024	17:10:00	
I:\ACQUDATA\MSVOA14\Data\022324\F8381.D\	OLN-FB001-B007	R2401280-004	2/23/2024	17:33:00	
I:\ACQUDATA\MSVOA14\Data\022324\F8382.D\	OLN-FB002-B007	R2401280-012	2/23/2024	17:55:00	
I:\ACQUDATA\MSVOA14\Data\022324\F8383.D\	OLN-CW013-F007	R2401280-002	2/23/2024	18:17:00	
I:\ACQUDATA\MSVOA14\Data\022324\F8384.D\	OLN-CW13A-F007	R2401280-003	2/23/2024	18:40:00	
I:\ACQUDATA\MSVOA14\Data\022324\F8385.D\	OLN-WW18M-F007	R2401280-006	2/23/2024	19:02:00	
I:\ACQUDATA\MSVOA14\Data\022324\F8386.D\	OLN-RU009-F007	R2401280-008	2/23/2024	19:24:00	
I:\ACQUDATA\MSVOA14\Data\022324\F8387.D\	OLN-RU028-F007	R2401280-009	2/23/2024	19:47:00	
I:\ACQUDATA\MSVOA14\Data\022324\F8388.D\	OLN-RU011-F007	R2401280-010	2/23/2024	20:09:00	
I:\ACQUDATA\MSVOA14\Data\022324\F8389.D\	OLN-RU021-F007	R2401280-018	2/23/2024	20:32:00	
I:\ACQUDATA\MSVOA14\Data\022324\F8390.D\	OLN-RU021-F007 MS	RQ2402015-05	2/23/2024	20:54:00	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: **Analysis Lot:**833205
Instrument ID:R-MS-14

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\MSVOA14\Data\022324 \F8391.D\	OLN-RU021-F007 DMS	RQ2402015-06	2/23/2024	21:16:00	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: **Analysis Lot:**833305
Instrument ID:R-MS-14

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
	ZZZZZZZ	ZZZZZZZ			
I:\ACQUDATA\MSVOA14\Data\022524\F8397.D\	ZZZZZZZ	ZZZZZZZ	2/25/2024	13:16:00	
I:\ACQUDATA\MSVOA14\Data\022524\F8398.D\	Continuing Calibration Verification	RQ2402024-02	2/25/2024	13:48:00	
I:\ACQUDATA\MSVOA14\Data\022524\F8399.D\	ZZZZZZZ	ZZZZZZZ	2/25/2024	14:23:00	
I:\ACQUDATA\MSVOA14\Data\022524\F8400.D\	Lab Control Sample	RQ2402024-04	2/25/2024	14:45:00	
I:\ACQUDATA\MSVOA14\Data\022524\F8401.D\	ZZZZZZZ	ZZZZZZZ	2/25/2024	15:21:00	
I:\ACQUDATA\MSVOA14\Data\022524\F8402.D\	ZZZZZZZ	ZZZZZZZ	2/25/2024	15:53:00	
I:\ACQUDATA\MSVOA14\Data\022524\F8403.D\	Method Blank	RQ2402024-07	2/25/2024	16:16:00	
I:\ACQUDATA\MSVOA14\Data\022524\F8404.D\	ZZZZZZZ	ZZZZZZZ	2/25/2024	16:38:00	
I:\ACQUDATA\MSVOA14\Data\022524\F8405.D\	ZZZZZZZ	ZZZZZZZ	2/25/2024	17:00:00	
I:\ACQUDATA\MSVOA14\Data\022524\F8406.D\	ZZZZZZZ	ZZZZZZZ	2/25/2024	17:23:00	
I:\ACQUDATA\MSVOA14\Data\022524\F8407.D\	ZZZZZZZ	ZZZZZZZ	2/25/2024	17:45:00	
I:\ACQUDATA\MSVOA14\Data\022524\F8408.D\	ZZZZZZZ	ZZZZZZZ	2/25/2024	18:07:00	
I:\ACQUDATA\MSVOA14\Data\022524\F8409.D\	ZZZZZZZ	ZZZZZZZ	2/25/2024	18:30:00	
I:\ACQUDATA\MSVOA14\Data\022524\F8410.D\	ZZZZZZZ	ZZZZZZZ	2/25/2024	18:52:00	
I:\ACQUDATA\MSVOA14\Data\022524\F8411.D\	OLN-TB001-T007	R2401280-001	2/25/2024	19:14:00	
I:\ACQUDATA\MSVOA14\Data\022524\F8412.D\	OLN-RU015-F007	R2401280-013	2/25/2024	19:37:00	
I:\ACQUDATA\MSVOA14\Data\022524\F8413.D\	OLN-RU016-F007	R2401280-014	2/25/2024	19:59:00	
I:\ACQUDATA\MSVOA14\Data\022524\F8414.D\	OLN-UA002-F007	R2401280-019	2/25/2024	20:21:00	
I:\ACQUDATA\MSVOA14\Data\022524\F8415.D\	OLN-EB001-E007	R2401280-020	2/25/2024	20:44:00	
I:\ACQUDATA\MSVOA14\Data\022524\F8416.D\	OLN-UA003-F007	R2401280-022	2/25/2024	21:06:00	
I:\ACQUDATA\MSVOA14\Data\022524\F8417.D\	OLN-RU008-F007	R2401280-023	2/25/2024	21:28:00	
I:\ACQUDATA\MSVOA14\Data\022524\F8419.D\	OLN-FD002-D007	R2401280-025	2/25/2024	22:13:00	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: **Analysis Lot:**833305
Instrument ID:R-MS-14

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\MSVOA14\Data\022524\F8420.D\	OLN-FD001-D007	R2401280-015	2/25/2024	22:35:00	
I:\ACQUDATA\MSVOA14\Data\022524\F8421.D\	OLN-RU27A-F007	R2401280-011	2/25/2024	22:57:00	
I:\ACQUDATA\MSVOA14\Data\022524\F8422.D\	OLN-RU020-F007	R2401280-016	2/25/2024	23:20:00	
I:\ACQUDATA\MSVOA14\Data\022524\F8423.D\	OLN-RU019-F007	R2401280-017	2/25/2024	23:42:00	
I:\ACQUDATA\MSVOA14\Data\022524\F8424.D\	ZZZZZZZ	ZZZZZZZ	2/26/2024	00:04:00	
I:\ACQUDATA\MSVOA14\Data\022524\F8425.D\	ZZZZZZZ	ZZZZZZZ	2/26/2024	00:26:00	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: **Analysis Lot:**833324
Instrument ID:R-MS-17

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\MSVOA17\Data\022624\E9983.D\	ZZZZZZZ	ZZZZZZZ	2/26/2024	09:23:00	
I:\ACQUDATA\MSVOA17\Data\022624\E9984.D\	Continuing Calibration Verification	RQ2402038-02	2/26/2024	09:56:00	
I:\ACQUDATA\MSVOA17\Data\022624\E9985.D\	ZZZZZZZ	ZZZZZZZ	2/26/2024	10:36:00	
I:\ACQUDATA\MSVOA17\Data\022624\E9987.D\	Lab Control Sample	RQ2402038-04	2/26/2024	11:36:00	
I:\ACQUDATA\MSVOA17\Data\022624\E9989.D\	ZZZZZZZ	ZZZZZZZ	2/26/2024	12:22:00	
I:\ACQUDATA\MSVOA17\Data\022624\E9990.D\	Method Blank	RQ2402038-06	2/26/2024	12:45:00	
I:\ACQUDATA\MSVOA17\Data\022624\E9991.D\	ZZZZZZZ	ZZZZZZZ	2/26/2024	13:08:00	
I:\ACQUDATA\MSVOA17\Data\022624\E9992.D\	ZZZZZZZ	ZZZZZZZ	2/26/2024	13:31:00	
I:\ACQUDATA\MSVOA17\Data\022624\E9993.D\	ZZZZZZZ	ZZZZZZZ	2/26/2024	13:55:00	
I:\ACQUDATA\MSVOA17\Data\022624\E9994.D\	ZZZZZZZ	ZZZZZZZ	2/26/2024	14:17:00	
I:\ACQUDATA\MSVOA17\Data\022624\E9995.D\	ZZZZZZZ	ZZZZZZZ	2/26/2024	14:41:00	
I:\ACQUDATA\MSVOA17\Data\022624\E9996.D\	ZZZZZZZ	ZZZZZZZ	2/26/2024	15:04:00	
I:\ACQUDATA\MSVOA17\Data\022624\E9997.D\	ZZZZZZZ	ZZZZZZZ	2/26/2024	15:26:00	
I:\ACQUDATA\MSVOA17\Data\022624\E9998.D\	ZZZZZZZ	ZZZZZZZ	2/26/2024	15:59:00	
I:\ACQUDATA\MSVOA17\Data\022624\E9999.D\	ZZZZZZZ	ZZZZZZZ	2/26/2024	16:22:00	
I:\ACQUDATA\MSVOA17\Data\022624\K0002.D\	OLN-FB003-B007	R2401280-024	2/26/2024	17:31:00	
I:\ACQUDATA\MSVOA17\Data\022624\K0003.D\	OLN-RU020-F007	R2401280-016	2/26/2024	17:54:00	
I:\ACQUDATA\MSVOA17\Data\022624\K0005.D\	ZZZZZZZ	ZZZZZZZ	2/26/2024	18:40:00	
I:\ACQUDATA\MSVOA17\Data\022624\K0006.D\	ZZZZZZZ	ZZZZZZZ	2/26/2024	19:03:00	
I:\ACQUDATA\MSVOA17\Data\022624\K0007.D\	ZZZZZZZ	ZZZZZZZ	2/26/2024	19:26:00	
I:\ACQUDATA\MSVOA17\Data\022624\K0008.D\	ZZZZZZZ	ZZZZZZZ	2/26/2024	19:49:00	
I:\ACQUDATA\MSVOA17\Data\022624\K0009.D\	ZZZZZZZ	ZZZZZZZ	2/26/2024	20:12:00	
I:\ACQUDATA\MSVOA17\Data\022624\K0010.D\	ZZZZZZZ	ZZZZZZZ	2/26/2024	20:35:00	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: **Analysis Lot:**833324
Instrument ID:R-MS-17

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\MSVOA17\Data\022624 \K0011.D\	ZZZZZZZ	ZZZZZZZ	2/26/2024	20:58:00	

Analysis: 8260/624 | Analyst: F. Naegle | pH strips: 238022 | Tune Method: W022024/E101723.M

Date: 2/25/24 | Balance ID: — | ResCl strips: | Run Method: ↓ ↓

Instr. MS14 | 50 mL Class A used for dilution FV | Syringes: 210903/218579 | LIMS Run#: 833305

Data Path: j:\acqudata\msvoa(InstID)\(Date)

Pos.	Sample	Diln.	Diln. Prep./	RL	Vial	HS	Cl	pH	File#	OK?	Comments
1	BLK								F8395	Y	
2	↓								96	Y	
3	TUNE								97	Y	
4	CCV								98	Y	
5	LCS-UNP								✓ 99	Y	
6	LCS-FP								F8400	Y	
7	LCS-EIC								01	Y	
8	MBLK-UNP								02	Y	
9	MBLK-FP								03	Y	
10	R2400835-013	1.0	(10mL/1mL) -> 5mL/50mL	21049	—	—	—	—	04	Y	EIC MDL= 0.5, 1.0, 2.5 ppb
11	R2401305-001	1.0	LL	LCSb	1	N	-	<2	05	Y	+ TICs
12	↓ -002	1.0	↓	↓	1	N	-	<2	06	Y	↓
13	↓ -003	1.0		↓	1	N	—	<2	07	Y	
14	R2401497-001	1.0		13224	1	N	neg	7	08	Y	
15	R2401498-001	1.0		↓	1	N	neg	7	09	Y	
16	R2401500-001	1.0		20787	1	N	neg	7	10	Y	
17	R2401280-001	1.0		25499	2	N	—	<2	11	Y	
18	-013	1.0			1	N	-	<2	12	Y	
19	-014	1.0			1	N	-	<2	13	Y	
20	-019	1.0			1	N	-	<2	14	Y	
21	-020	1.0			1	N	-	<2	15	Y	
22	-022	1.0			1	N	-	<2	16	Y	
23	-023	1.0			1	N	-	<2	17	Y	
24	-024	1.0			1	N	-	<2	18	(N)	Rpt 1/1 c/c?
25	-025	1.0			1	N	-	<2	19	Y	
26	-015	1.0			1	N	-	<2	20	Y	
27	-011	1.0			1	N	-	<2	21	Y	
28	-016	1.0			1	N	-	<2	22	(Y)	Rpt 1/5
29	↓ -017	2.0	25/50mL	✓	1	N	-	<2	23	Y	
30	R2401500-001MS	1.0		20787	2	N	neg	7	24	Y	
30	↓ -001MSD	1.0		↓	2	N	neg	7	25	Y	
31	BLK								✓ 26	Y	

All samples = 5 mL + 5 uL combined IS/ 5 mL purged

Combined IS/Surr: —

Surrogate 50: 233764

Internal Std 50: 233765

Reagents: —

T/G Primary 500: 233701 - 5mL/50mL

HSL Primary: 233702 -

Fr Primary: 233687 -

DCC Primary: 232984 - (CCV)

EK Primary 500: 233582 - MDL

Fr Secondary 200: 233693 - 5uL

T/G Secondary 500: 233745 - 2uL

HSL Secondary: 233694 -

DCC Secondary: 232672 - (LCS)

GK Secondary 200: 233819 - 5uL

-12<u>uL</u> -5uL

5mL (SPK)

Analysis: 8260 | Analyst: F. Nagler | pH strips: 228022 | Tune Method: W022024.M

Date: 2/23/24 | Balance ID: — | ResCl strips: — | Run Method: ↓

Instr. MS14 | 50 mL Class A used for dilution FV | Syringes: 210903 / 218579 | LIMS Run#: 833205

Data Path: j:\acqudata\msvoa(InstID)\(Date)

Pos.	Sample	Diln.	Diln. Prep./	RL	Vial	HS	Cl	pH	File#	OK?	Comments
1	BLK								F8362	Y	
2	↓								63	Y	
3									64	Y	
4	TUNE								65	Y	
5	CCV								66	Y	
6	LCS-FP								67	Y	
7	BLK								68	(N)	
8	MBLK-UNP								69	Y	
9	MBLK-FP								70	Y	
10	R2401240-003	1.0		6656	1	N	—	<2	71	Y	
11	-004	1.0			1	N	—	<2	72	Y	+ TICs
12	-005	1.0			1	N	—	<2	73	Y	
13	-006	1.0			1	N	—	<2	74	Y	
14	-007	1.0			1	N	—	<2	75	Y	
15	-002	1.0			1	N	—	<2	76	Y	
16	-001	1.0		↓	1	N	—	<2	77	Y	
17	R2401280-001	1.0		25499	1	N	—	<2	78	(N)	SURR6; Bat
18	-005	1.0			1	N	—	<2	79	Y	
19	-007	1.0			1	N	—	<2	80	Y	
20	-004	1.0			1	N	—	<2	81	Y	
21	-012	1.0			1	N	—	<2	82	Y	
22	-002	1.0			1	N	—	<2	83	Y	
23	-003	1.0			1	N	—	<2	84	Y	
24	-006	1.0			1	N	—	<2	85	Y	
25	-008	1.0			1	N	—	<2	86	Y	
26	-009	1.0			1	N	—	<2	87	Y	
27	-010	1.0			1	N	—	<2	88	Y	
28	-018	1.0			1	N	—	<2	89	Y	
29	-018MS	1.0			2	N	—	<2	90	Y	
30	-018MSD	1.0		↓	3	N	—	<2	91	Y	
31	BLK								92	Y	
32	↓								93	Y	

All samples = 5 mL + 5 uL combined IS/ 5 mL purged

T/G Primary 500 : 233701 - 5uL/5mL

HS Primary : 233702 -

Fr Primary : 233687 - (CCV)

OCC Primary : 232984 -

Primary :

Fr Secondary 200 : 233493 - 5uL

T/G Secondary 500 : 233745 - 2uL

HS Secondary : 233494 -

OCC Secondary : 232672 -

Secondary :

5mL (LCS) -12.5uL -2uL 5mL (SPK)

Combined IS/Surr : —

Surrogate 50 : 233764

Internal Std 50 : 233765

Reagents: —

Analysis: 8260 | Analyst: FWusle | pH strips: 235022 | Tune Method: WS21524-M

Date: 2/26/24 | Balance ID: - | ResCl strips: - | Run Method: ↓

Instr. MS17 | 50 mL Class A used for dilution FV | Syringes: 231174 | LIMS Run#: 833624

Data Path: j:\acqudata\msvoa(InstID)\(Date)

Pos.	Sample	Diln.	Diln. Prep./	RL	Vial	HS	Cl	pH	File#	OK?	Comments
1	BLK								E9981	Y	
2	↓								82	Y	
3	TUNE								83	Y	
4	CCV								84	Y	
5	LCS-UNP								85	Y	
6	LCS-FP								86	(N)	
7	LCS-FP								87	Y	
8	BLK								88	(N)	
9	MBLK-UNP								89	Y	
10	MBLK-FP								90	Y	
11	R2401188-006	1.0		19638	2	N	—	<2	91	Y	+TICs
12	R2401303-001	1.0		↓	2	N	—	<2	92	Y	↓
13	R2401309-001	1.0		6656	1	N	—	<2	93	Y	
14	-002	1.0		↓	1	N	—	<2	94	Y	
15	-005	1.0			1	N	—	<2	95	Y	
16	-004	1.0			1	N	—	<2	96	Y	
17	↓ -003	1.0		↓	1	N	—	<2	97	Y	
18	R2401345-011	1.0		26735	1	N	—	7	98	Y	
19	R2401495-004	1.0		22528	1	N	—	7	↓ 99	Y	
20	-003	100.0	1|100mL		1	N	—	7	K0000	(N)	Rpt 1|10
21	↓ -003	100.0	↓	↓	1	N	—	7	01	(N)	Rpt 1/1
22	R2401280-024	1.0		25499	2	N	—	<2	02	Y	
23	↓ -016	5.0	10|50mL	↓	2	N	—	<2	03	Y	DL
24	BLK								04	Y	
25	R2401232-001	1.0		14733	1	N	—	<2	05	Y	
26	↓ -002	1.0		↓	1	N	—	<2	06	Y	
27	R2401231-001	5.0	10|50mL	↓	1	N	—	<2	07	Y	
28	R2401381-001	1.0		18730	1	N	—	<2	08	Y	
29	↓ -002	5.0	10|50mL	↓	1	N	—	<2	09	Y	
30	R2401495-004MS	1.0		22528	2	N	—	7	10	Y	
31	↓ -004MSD	1.0		↓	3	N	—	7	11	Y	
32	BLK								↓ 12	Y	

All samples = 5 mL + 5 uL combined IS/ 5 mL purged

T/G Primary 500 : 233701 - 2uL\|5mL

HSL Primary : 233702 -

Fr Primary : 233687 -

DCL Primary : 232984 -

236-TCL Primary : 233456 -

(CCV)

Fr Secondary 200 : 233493 - 5uL

T/G Secondary 500 : 233745 - 2uL

HSL Secondary : 233494 -

DCL Secondary : 232672 -

236-TCL Secondary : 233457 -

5mL (LCS)

-12.5uL -2uL 5mL (SPK)

Combined IS/Surr : -

Surrogate 50 : 233764

Internal Std 50 : 233765

Reagents: -

Volatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 11:36
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU009-F007	**Units:**	ug/L
Lab Code:	R2401280-008	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	02/16/24 13:41	
Ethene	5.0 U	5.0	0.35	1	02/16/24 13:41	
Methane	5.2 U	5.2	3.0	1	02/16/24 13:41	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 12:27
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU028-F007	**Units:**	ug/L
Lab Code:	R2401280-009	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	02/16/24 13:55	
Ethene	5.0 U	5.0	0.35	1	02/16/24 13:55	
Methane	**3.1 J**	5.2	3.0	1	02/16/24 13:55	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 13:32
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU011-F007	**Units:**	ug/L
Lab Code:	R2401280-010	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	02/16/24 14:09	
Ethene	5.0 U	5.0	0.35	1	02/16/24 14:09	
Methane	**4.9 J**	5.2	3.0	1	02/16/24 14:09	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 14:41
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU27A-F007	**Units:**	ug/L
Lab Code:	R2401280-011	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	100 U	100	17	20	02/16/24 14:36	
Ethene	100 U	100	7.0	20	02/16/24 14:36	
Methane	**5500**	100	60	20	02/16/24 14:36	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 15:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FB002-B007	**Units:**	ug/L
Lab Code:	R2401280-012	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	02/16/24 14:50	
Ethene	5.0 U	5.0	0.35	1	02/16/24 14:50	
Methane	5.2 U	5.2	3.0	1	02/16/24 14:50	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 15:45
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU015-F007	**Units:**	ug/L
Lab Code:	R2401280-013	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	02/16/24 15:04	
Ethene	5.0 U	5.0	0.35	1	02/16/24 15:04	
Methane	**61**	5.2	3.0	1	02/16/24 15:04	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 17:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU016-F007	**Units:**	ug/L
Lab Code:	R2401280-014	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	02/16/24 15:19	
Ethene	5.0 U	5.0	0.35	1	02/16/24 15:19	
Methane	5.2 U	5.2	3.0	1	02/16/24 15:19	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 22:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FD001-D007	**Units:**	ug/L
Lab Code:	R2401280-015	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	02/16/24 15:32	
Ethene	5.0 U	5.0	0.35	1	02/16/24 15:32	
Methane	**64**	5.2	3.0	1	02/16/24 15:32	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 12:25
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU020-F007	**Units:**	ug/L
Lab Code:	R2401280-016	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	52 U	52	8.5	10	02/16/24 16:00	
Ethene	50 U	50	3.5	10	02/16/24 16:00	
Methane	**4100**	52	30	10	02/16/24 16:00	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 13:30
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU019-F007	**Units:**	ug/L
Lab Code:	R2401280-017	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Ethane	**4.4**	**J**	10	1.7	2	02/16/24 16:14	
Ethene	10	U	10	0.70	2	02/16/24 16:14	
Methane	**5300**	**E**	10	6.0	2	02/16/24 16:14	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 13:30
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU019-F007	**Units:**	ug/L
Lab Code:	R2401280-017	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Ethane	100	U	100	17	20	02/16/24 16:28	
Ethene	100	U	100	7.0	20	02/16/24 16:28	
Methane	**4800**	**D**	100	60	20	02/16/24 16:28	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 15:38
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU021-F007	**Units:**	ug/L
Lab Code:	R2401280-018	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Ethane	260	U	260	43	50	02/23/24 11:41	
Ethene	250	U	250	18	50	02/23/24 11:41	
Methane	**12000**	**D**	260	150	50	02/23/24 11:41	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 15:38
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU021-F007	**Units:**	ug/L
Lab Code:	R2401280-018	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Ethane	100	U	100	17	20	02/23/24 11:27	
Ethene	100	U	100	7.0	20	02/23/24 11:27	
Methane	**11000**	**E**	100	60	20	02/23/24 11:27	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 17:03
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-UA002-F007	**Units:**	ug/L
Lab Code:	R2401280-019	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	02/23/24 12:46	
Ethene	5.0 U	5.0	0.35	1	02/23/24 12:46	
Methane	**35**	5.2	3.0	1	02/23/24 12:46	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 17:30
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-EB001-E007	**Units:**	ug/L
Lab Code:	R2401280-020	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	02/23/24 13:00	
Ethene	5.0 U	5.0	0.35	1	02/23/24 13:00	
Methane	**3.2 J**	5.2	3.0	1	02/23/24 13:00	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/14/24 09:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-UA003-F007	**Units:**	ug/L
Lab Code:	R2401280-022	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	02/23/24 13:13	
Ethene	5.0 U	5.0	0.35	1	02/23/24 13:13	
Methane	**76**	5.2	3.0	1	02/23/24 13:13	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/14/24 08:31
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU008-F007	**Units:**	ug/L
Lab Code:	R2401280-023	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	02/23/24 13:37	
Ethene	5.0 U	5.0	0.35	1	02/23/24 13:37	
Methane	**9.2**	5.2	3.0	1	02/23/24 13:37	

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dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/14/24 09:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FB003-B007	**Units:**	ug/L
Lab Code:	R2401280-024	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	02/23/24 13:50	
Ethene	5.0 U	5.0	0.35	1	02/23/24 13:50	
Methane	5.2 U	5.2	3.0	1	02/23/24 13:50	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/14/24 22:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FD002-D007	**Units:**	ug/L
Lab Code:	R2401280-025	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

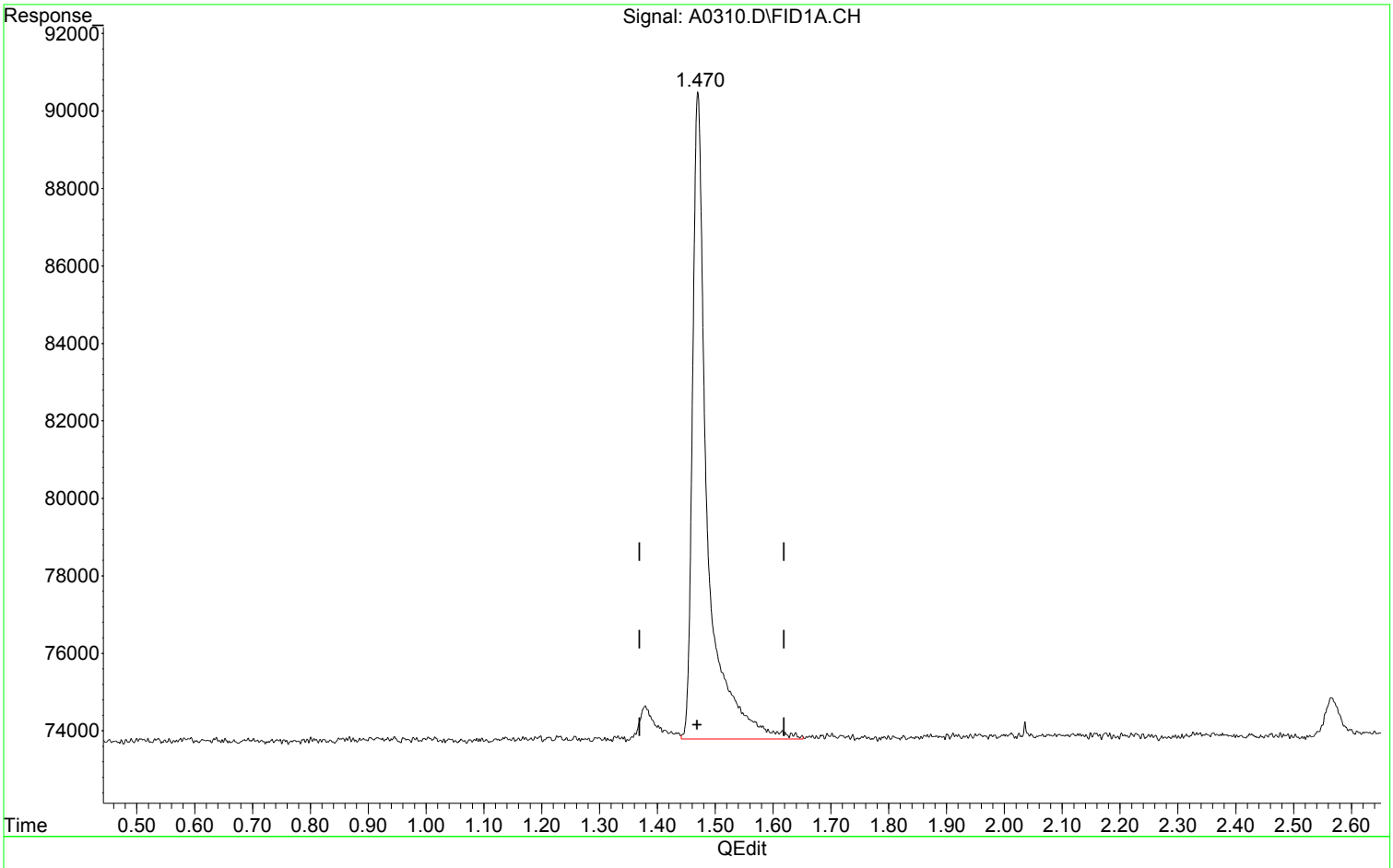
Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	02/23/24 14:05	
Ethene	5.0 U	5.0	0.35	1	02/23/24 14:05	
Methane	**5.3**	5.2	3.0	1	02/23/24 14:05	

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0310.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 1:41 pm
Operator : F.NAEGLER
Sample : R2401280-008
Misc : CEC 979 T4
ALS Vial : 14 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 13:51:55 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.470min 2.474 ug/L m

response 295802

Manual Integration:

After

Peak not found.

02/16/24

(+) = Expected Retention Time

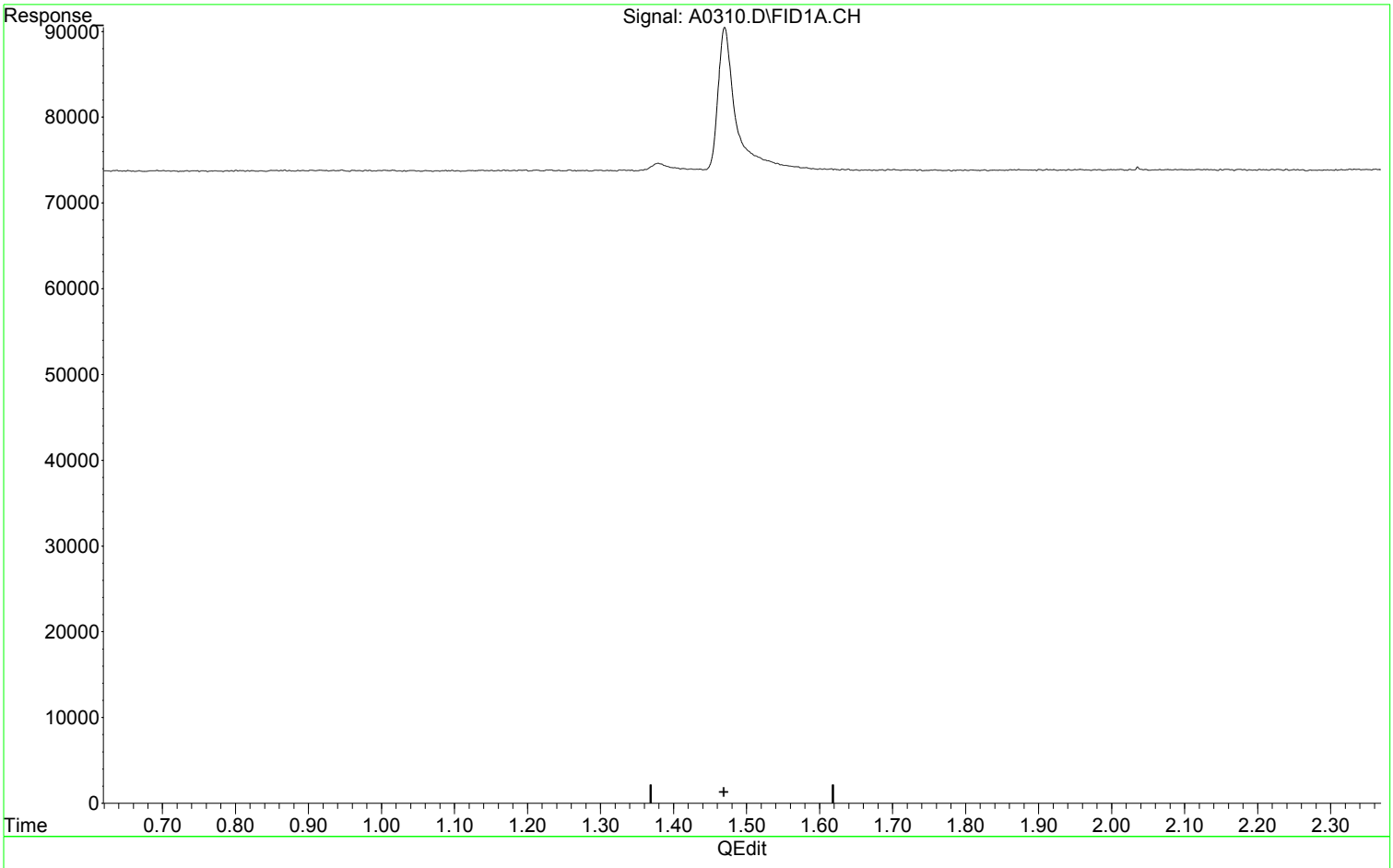
1st FN 02/16/24
2nd 02/19/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0310.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 1:41 pm
Operator : F.NAEGLER
Sample : R2401280-008
Misc : CEC 979 T4
ALS Vial : 14 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 13:51:55 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.469min 0.000 ug/L

response 0

Manual Integration:

Before

02/16/24

(+) = Expected Retention Time

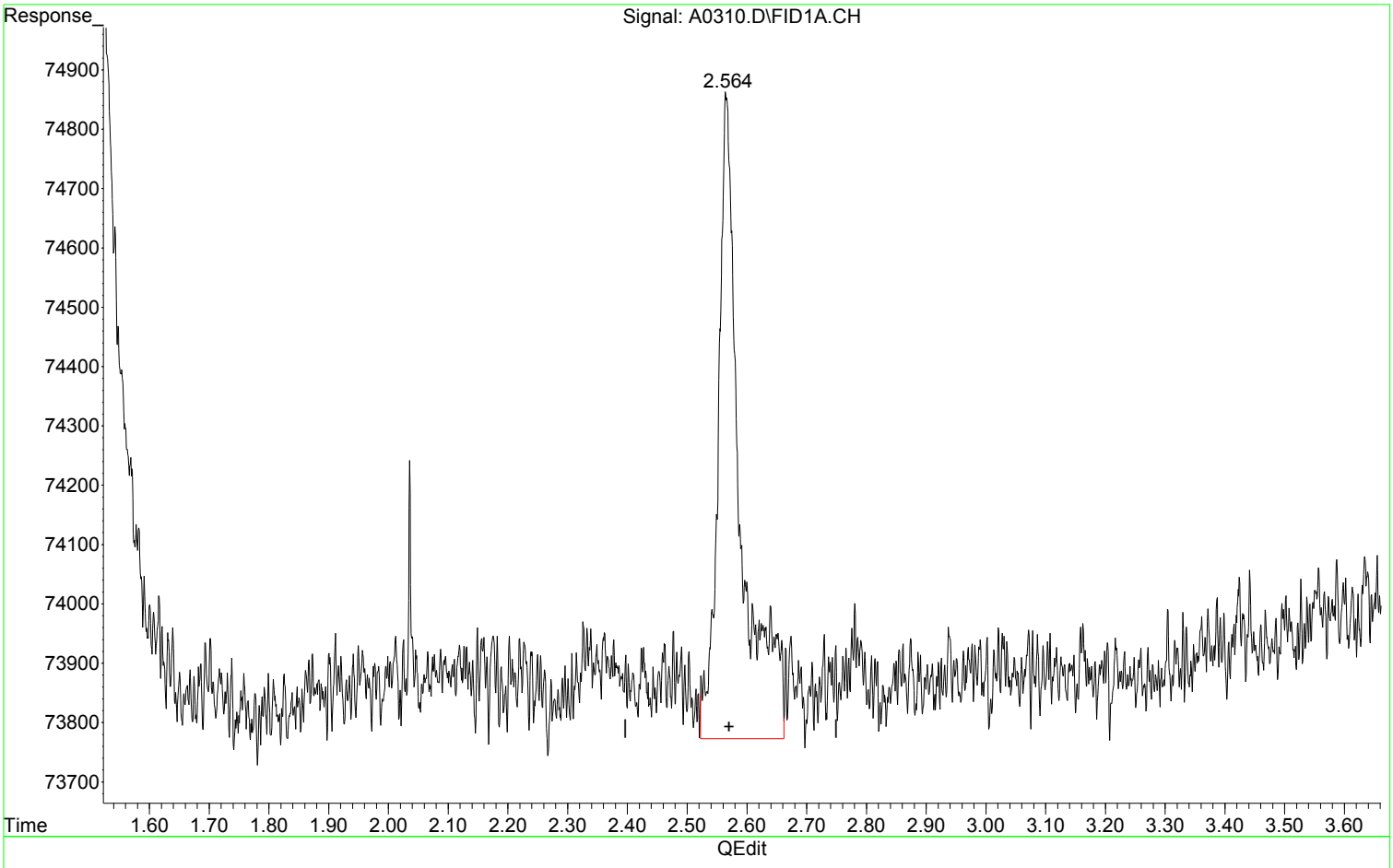
1st FN 02/16/24
2nd 02/19/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0310.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 1:41 pm
Operator : F.NAEGLER
Sample : R2401280-008
Misc : CEC 979 T4
ALS Vial : 14 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 13:51:55 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane

2.564min 0.499 ug/L m

response 28257

Manual Integration:

After

Peak not found.

02/16/24

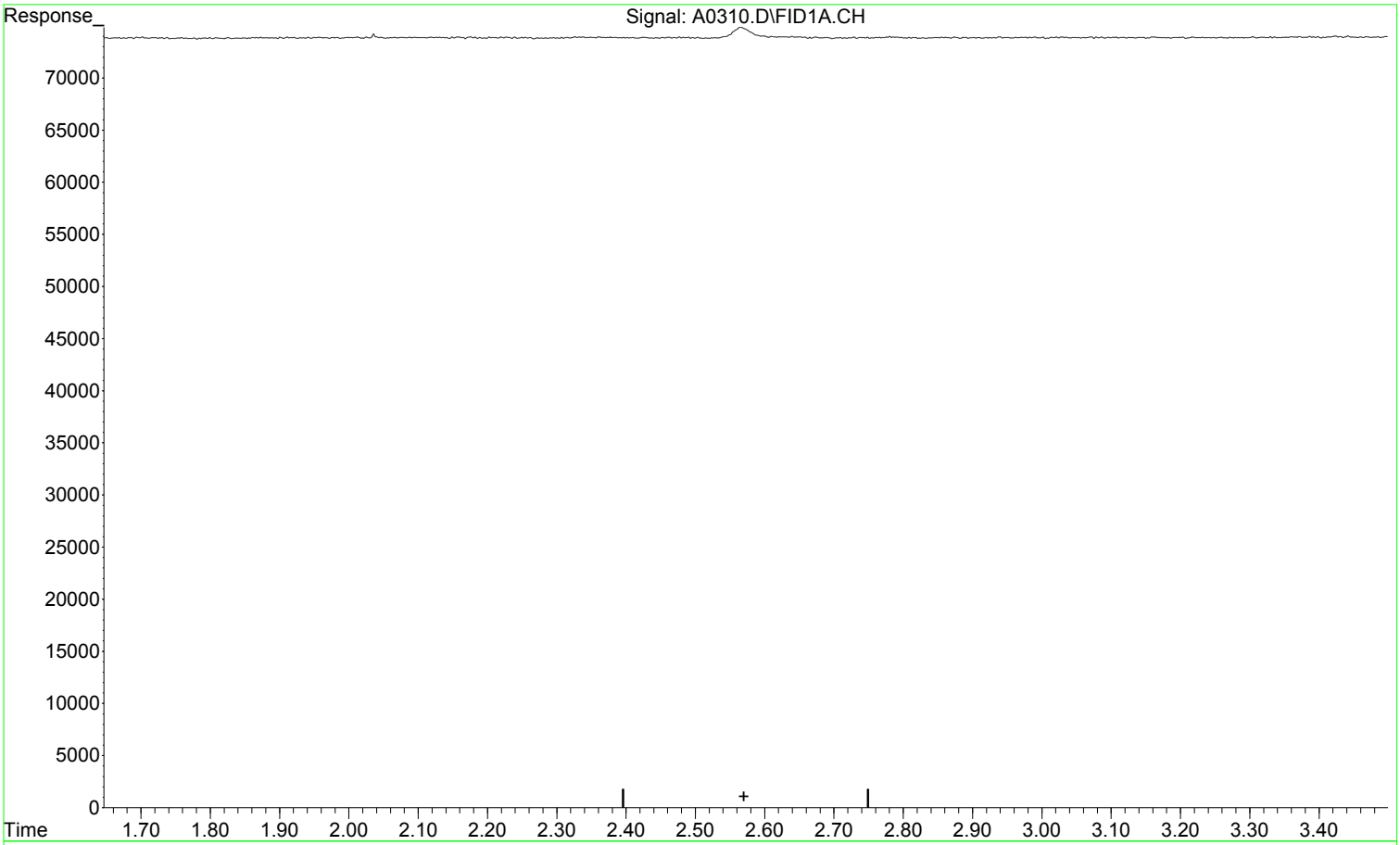
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0310.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 1:41 pm
Operator : F.NAEGLER
Sample : R2401280-008
Misc : CEC 979 T4
ALS Vial : 14 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 13:51:55 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.570min 0.000 ug/L
response 0

Manual Integration:
Before

02/16/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0310.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 1:41 pm
Operator : F.NAEGLER
Sample : R2401280-008
Misc : CEC 979 T4
ALS Vial : 14 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 13:51:55 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.470	295802	2.474	ug/L	m
2)	Acetylene	0.000	0	N.D.	ug/L	
3)	Ethylene	0.000	0	N.D.	ug/L	
4)	Ethane	2.564	28257	0.499	ug/L	m
5)	Propene	0.000	0	N.D.	ug/L	
6)	Propane	0.000	0	N.D.	ug/L	

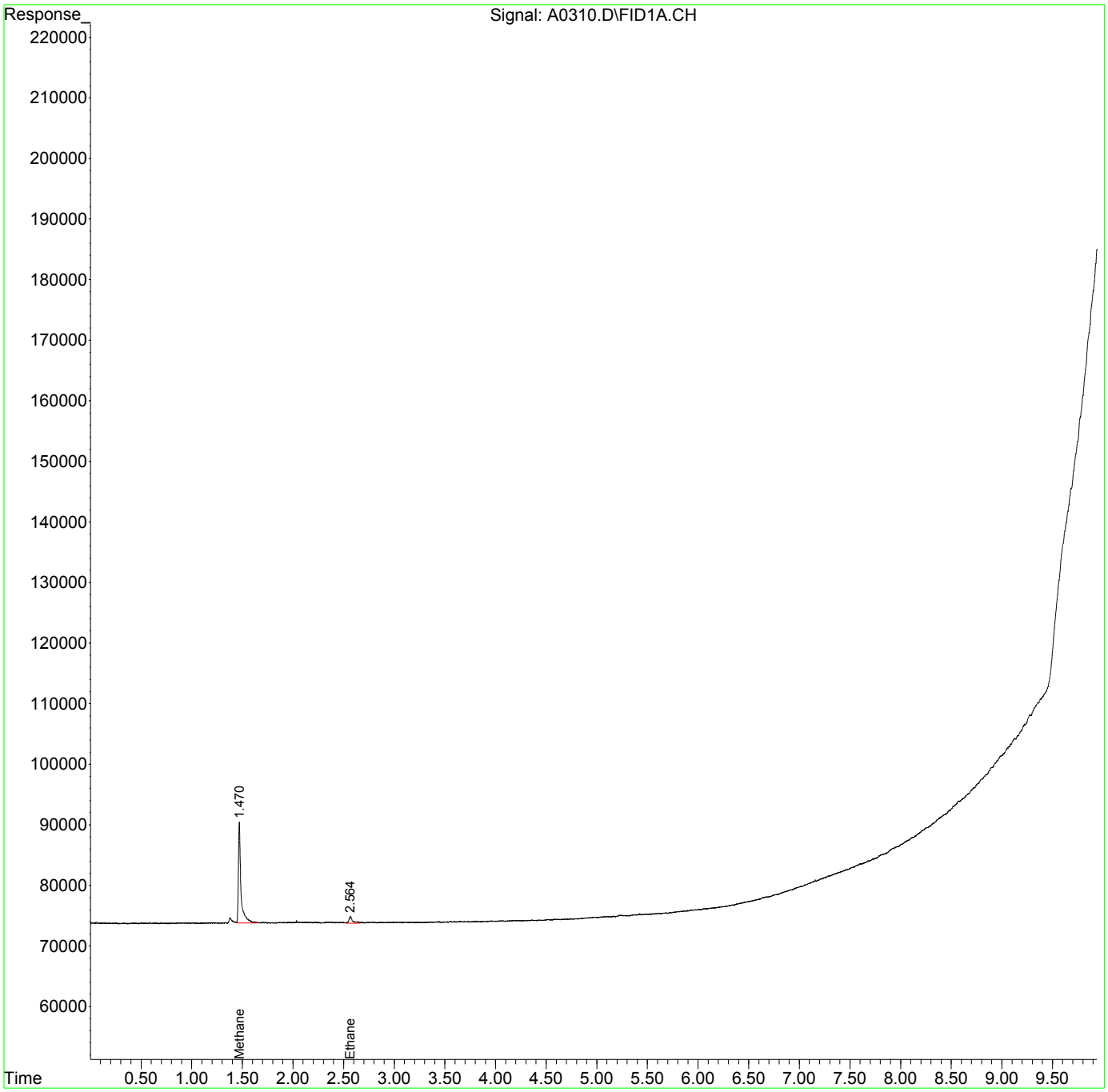
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0310.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 1:41 pm
Operator : F.NAEGLER
Sample : R2401280-008
Misc : CEC 979 T4
ALS Vial : 14 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 13:51:55 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

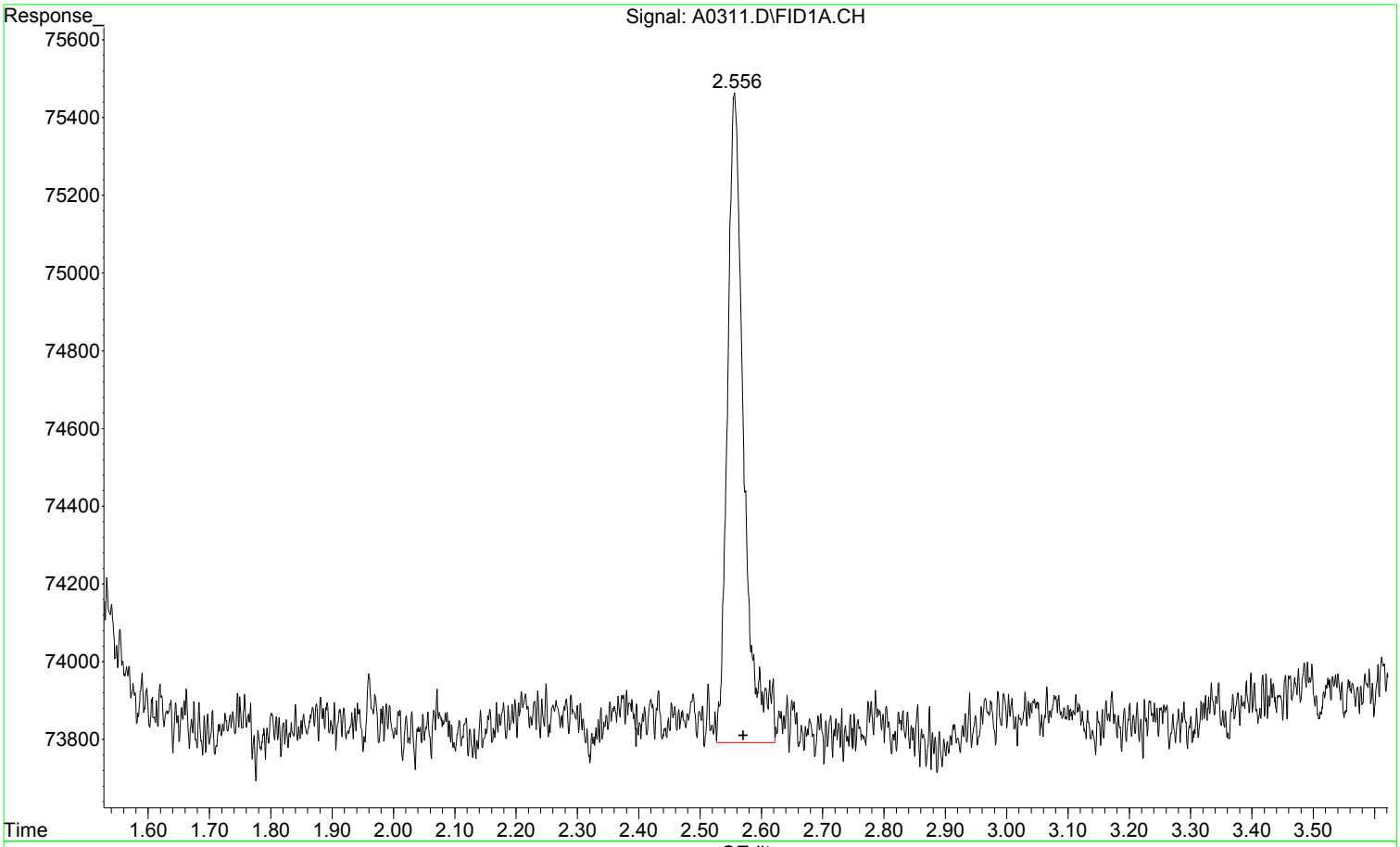


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0311.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 1:55 pm
Operator : F.NAEGLER
Sample : R2401280-009
Misc : CEC 979 T4
ALS Vial : 15 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 14:06:14 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.556min 0.551 ug/L m
response 31196

Manual Integration:
After
Peak not found.
02/16/24

(+) = Expected Retention Time

1st FN 02/16/24
2nd 02/19/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0311.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 1:55 pm
Operator : F.NAEGLER
Sample : R2401280-009
Misc : CEC 979 T4
ALS Vial : 15 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 14:06:14 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

(4) Ethane
2.570min 0.000 ug/L
response 0

Manual Integration:
Before

02/16/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0311.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 1:55 pm
Operator : F.NAEGLER
Sample : R2401280-009
Misc : CEC 979 T4
ALS Vial : 15 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 14:06:14 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.458	327409	3.060	ug/L
2)	Acetylene	0.000	0	N.D.	ug/L
3)	Ethylene	0.000	0	N.D.	ug/L
4)	Ethane	2.556	31196	0.551	ug/L m
5)	Propene	0.000	0	N.D.	ug/L
6)	Propane	0.000	0	N.D.	ug/L

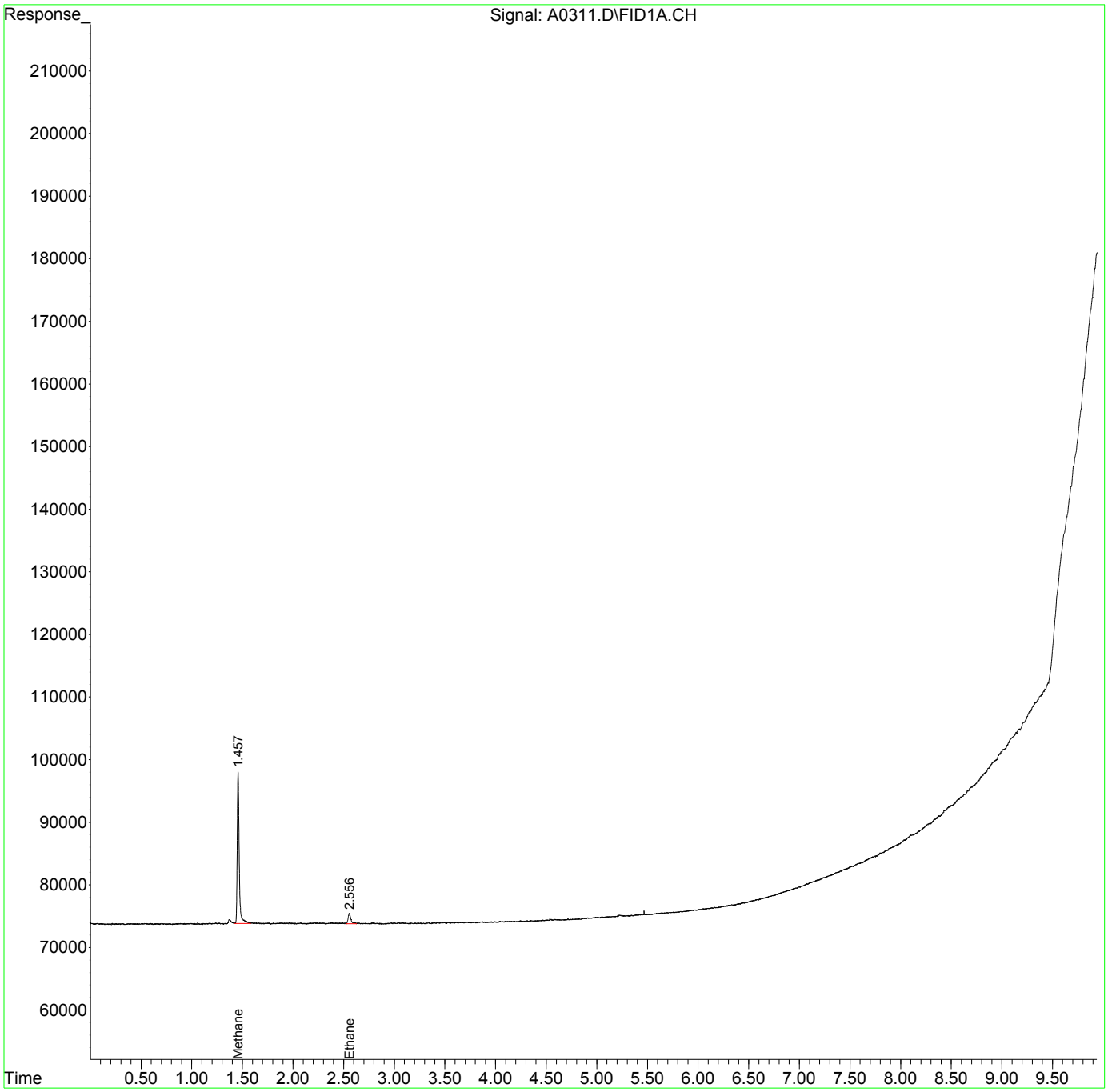
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0311.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 1:55 pm
Operator : F.NAEGLER
Sample : R2401280-009
Misc : CEC 979 T4
ALS Vial : 15 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 14:06:14 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



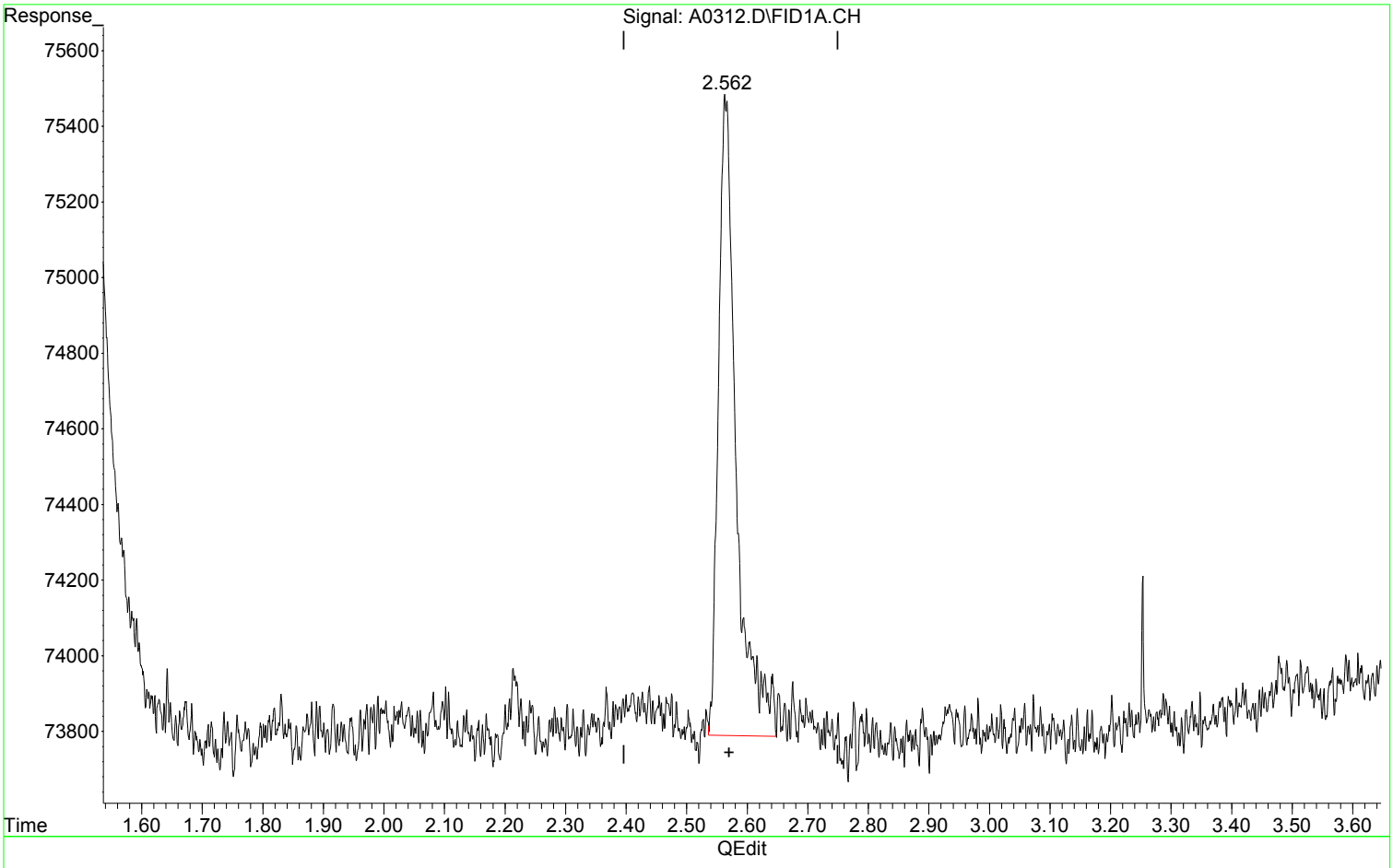
1st FN 02/16/24
2nd 02/19/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0312.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 2:09 pm
Operator : F.NAEGLER
Sample : R2401280-010
Misc : CEC 979 T4
ALS Vial : 16 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 14:19:44 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane

2.562min 0.616 ug/L m

response 34829

Manual Integration:

After

Peak not found.

02/16/24

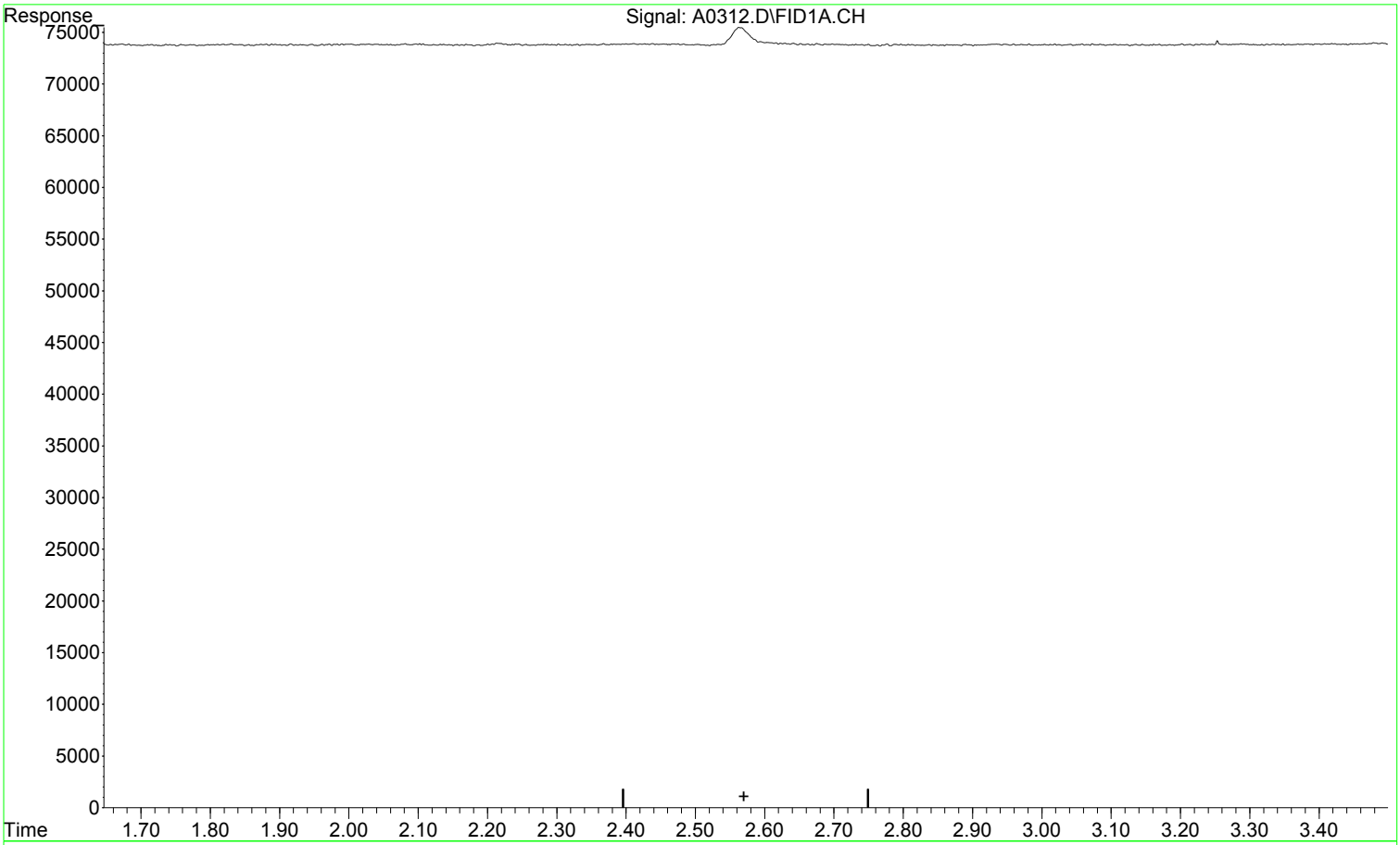
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0312.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 2:09 pm
Operator : F.NAEGLER
Sample : R2401280-010
Misc : CEC 979 T4
ALS Vial : 16 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 14:19:44 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.570min 0.000 ug/L
response 0

Manual Integration:
Before

02/16/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0312.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 2:09 pm
Operator : F.NAEGLER
Sample : R2401280-010
Misc : CEC 979 T4
ALS Vial : 16 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 14:19:44 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.469	425189	4.873	ug/L
2)	Acetylene	0.000	0	N.D.	ug/L
3)	Ethylene	0.000	0	N.D.	ug/L
4)	Ethane	2.562	34829	0.616	ug/L m
5)	Propene	0.000	0	N.D.	ug/L
6)	Propane	0.000	0	N.D.	ug/L

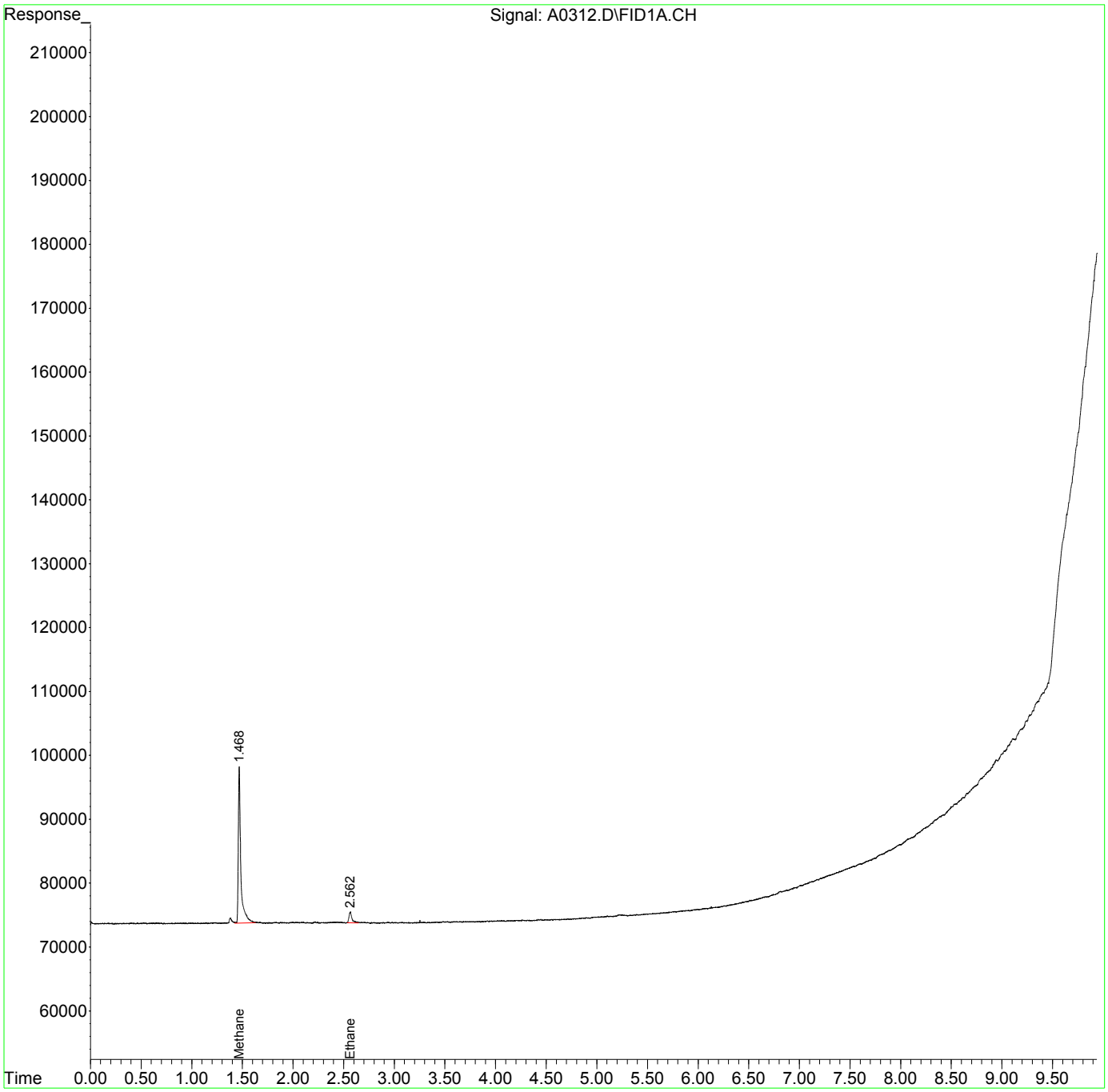
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0312.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 2:09 pm
Operator : F.NAEGLER
Sample : R2401280-010
Misc : CEC 979 T4
ALS Vial : 16 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 14:19:44 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0314.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 2:36 pm
Operator : F.NAEGLER
Sample : R2401280-011|20.0
Misc : CEC 979 T4
ALS Vial : 18 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 14:48:07 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.462	15011390	275.304	ug/L
2)	Acetylene	0.000	0	N.D.	ug/L
3)	Ethylene	0.000	0	N.D.	ug/L
4)	Ethane	0.000	0	N.D.	ug/L
5)	Propene	0.000	0	N.D.	ug/L
6)	Propane	0.000	0	N.D.	ug/L

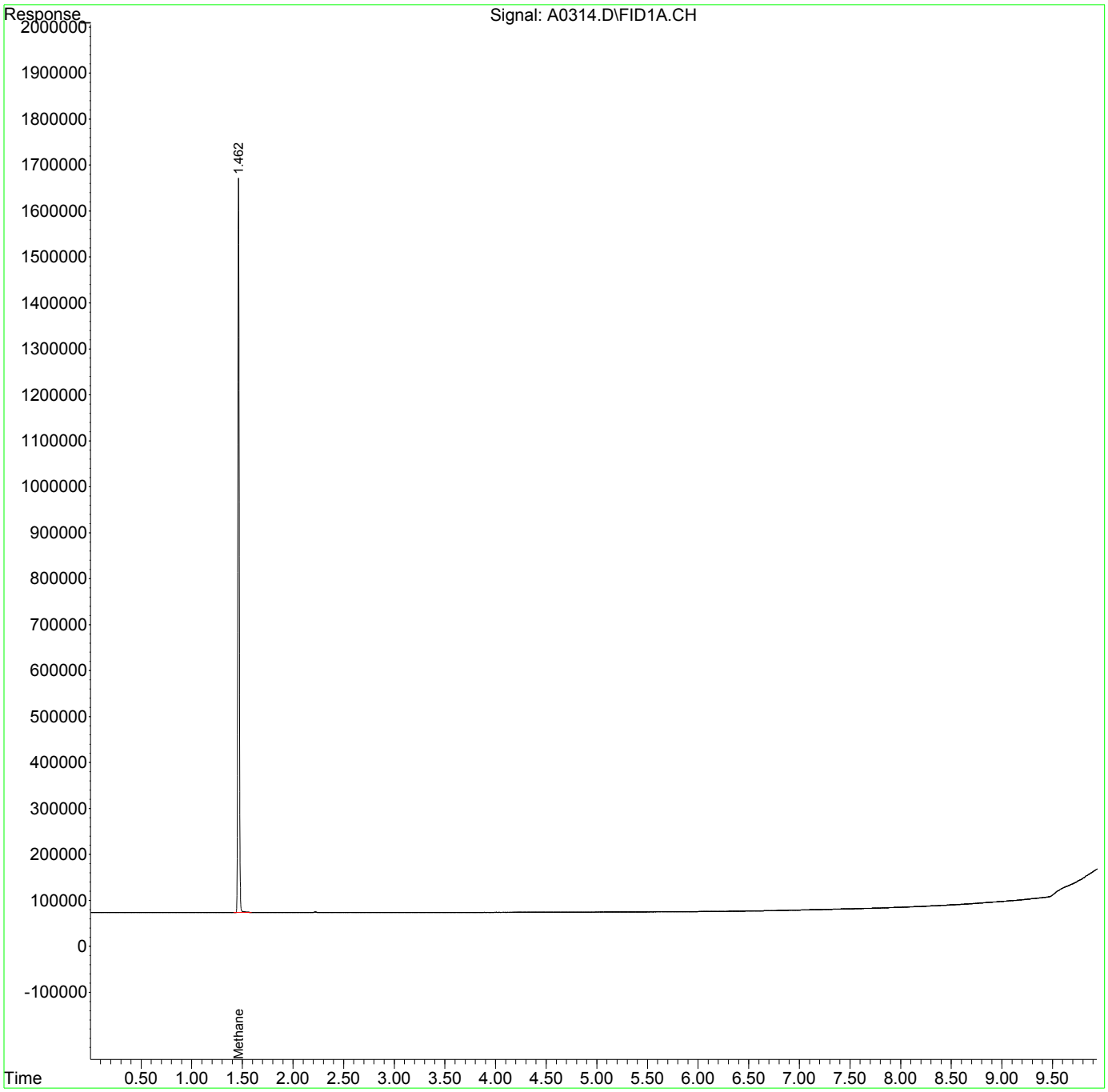
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0314.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 2:36 pm
Operator : F.NAEGLER
Sample : R2401280-011|20.0
Misc : CEC 979 T4
ALS Vial : 18 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 14:48:07 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



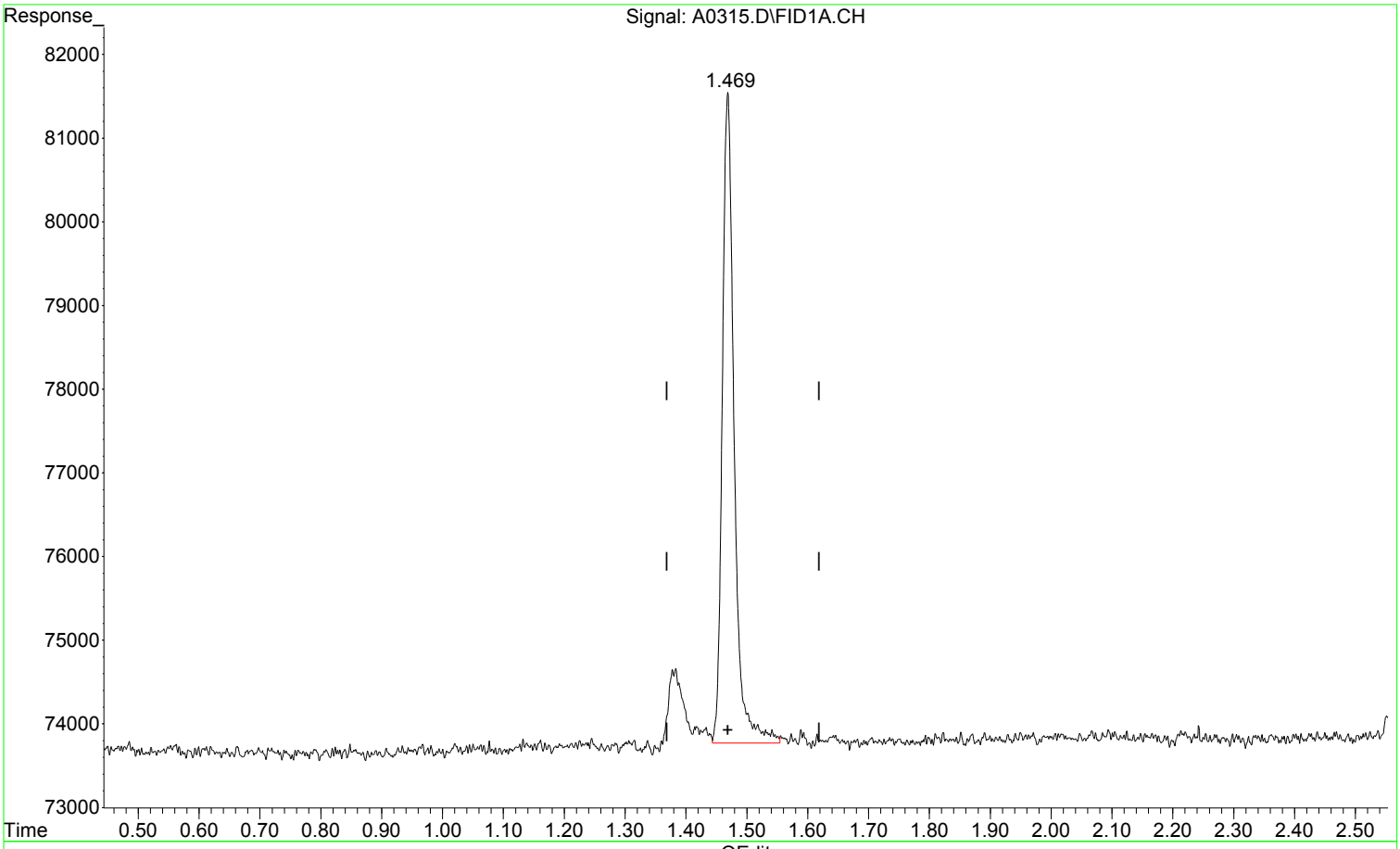
1st FN 02/16/24
2nd 02/19/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0315.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 2:50 pm
Operator : F.NAEGLER
Sample : R2401280-012
Misc : CEC 979 T4
ALS Vial : 19 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 15:03:06 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.469min -1.058 ug/L m

response 105320

Manual Integration:

After

Peak not found.

02/16/24

(+) = Expected Retention Time

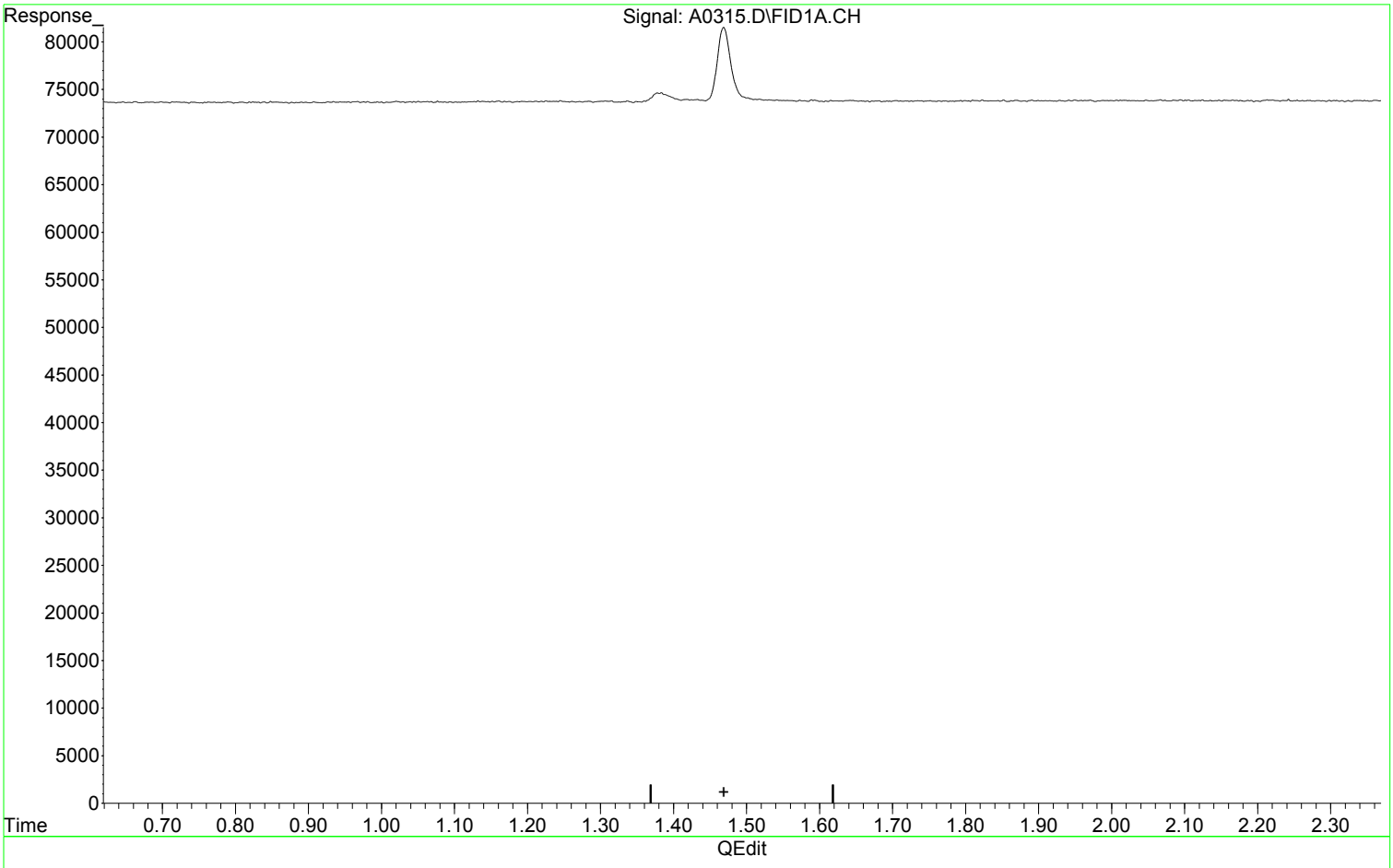
1st FJ 02/16/24
2nd 02/19/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0315.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 2:50 pm
Operator : F.NAEGLER
Sample : R2401280-012
Misc : CEC 979 T4
ALS Vial : 19 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 15:03:06 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.469min 0.000 ug/L

response 0

Manual Integration:

Before

02/16/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0315.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 2:50 pm
Operator : F.NAEGLER
Sample : R2401280-012
Misc : CEC 979 T4
ALS Vial : 19 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 15:03:06 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.469	105320	N.D.	ug/L	m
2)	Acetylene	0.000	0	N.D.	ug/L	
3)	Ethylene	0.000	0	N.D.	ug/L	
4)	Ethane	0.000	0	N.D.	ug/L	
5)	Propene	0.000	0	N.D.	ug/L	
6)	Propane	0.000	0	N.D.	ug/L	

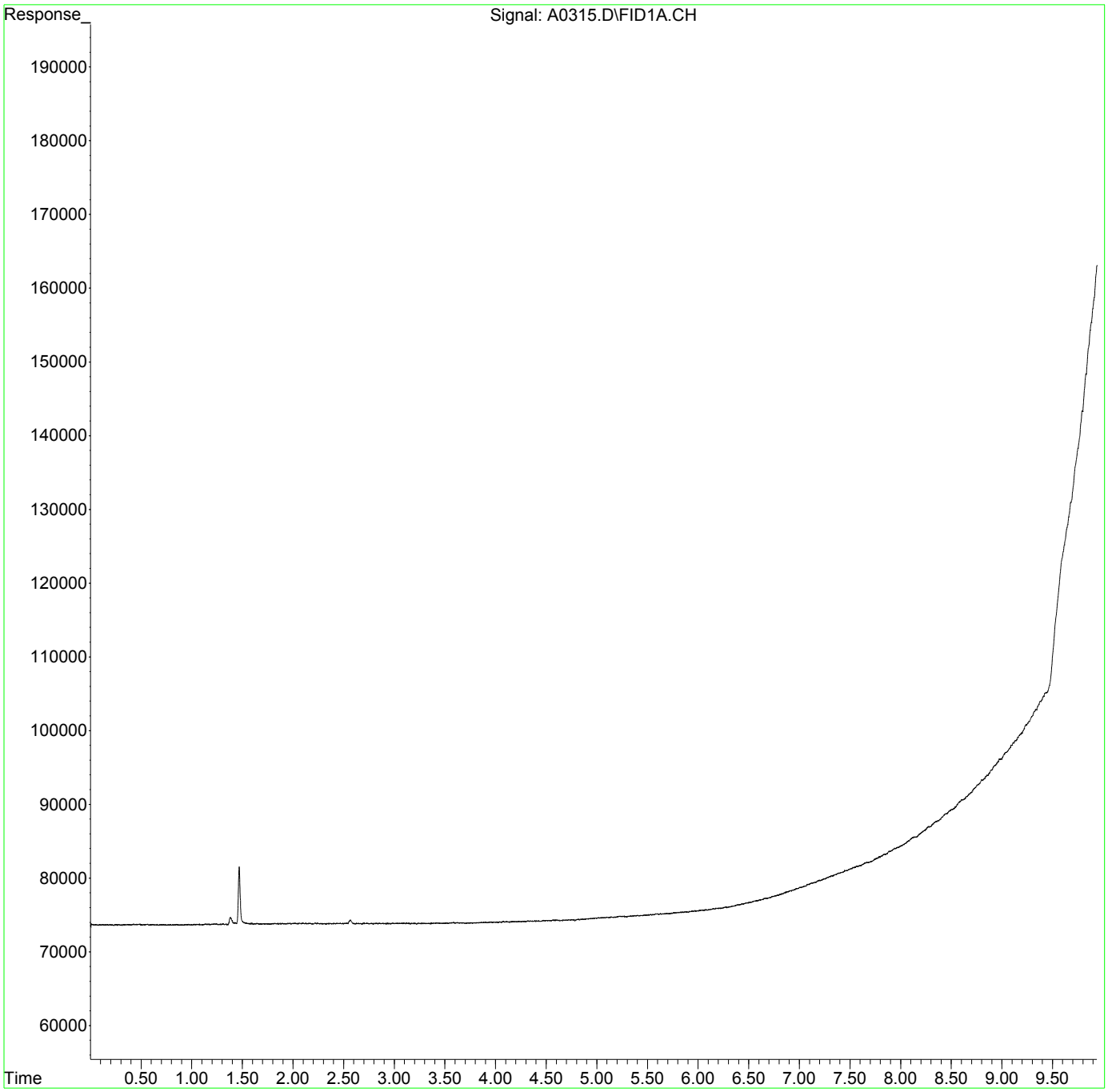
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0315.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 2:50 pm
Operator : F.NAEGLER
Sample : R2401280-012
Misc : CEC 979 T4
ALS Vial : 19 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 15:03:06 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



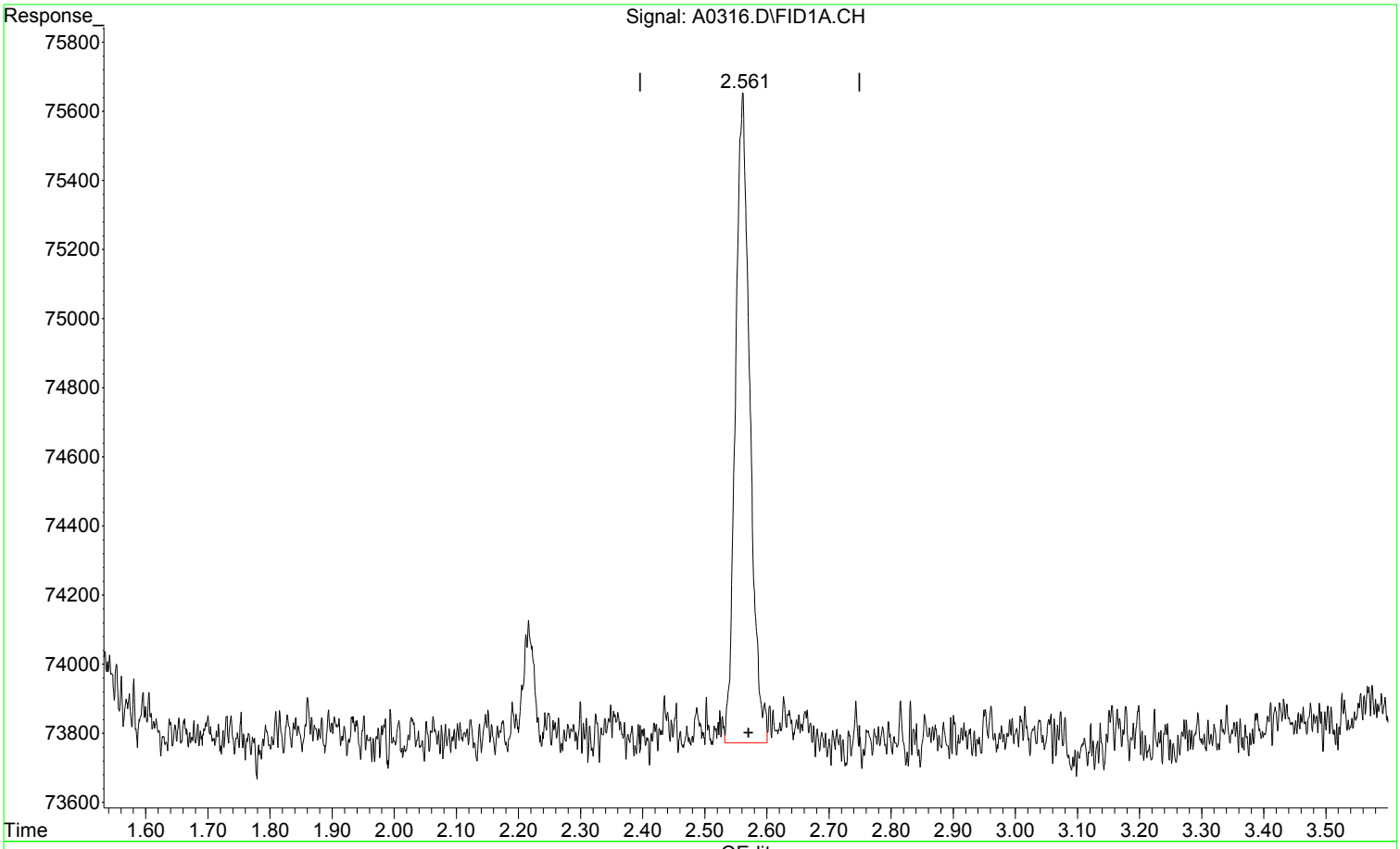
1st FN 02/16/24
2nd 02/19/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0316.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 3:04 pm
Operator : F.NAEGLER
Sample : R2401280-013
Misc : CEC 979 T4
ALS Vial : 20 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 15:17:17 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane

2.561min 0.533 ug/L m

response 30150

Manual Integration:

After

Peak not found.

02/16/24

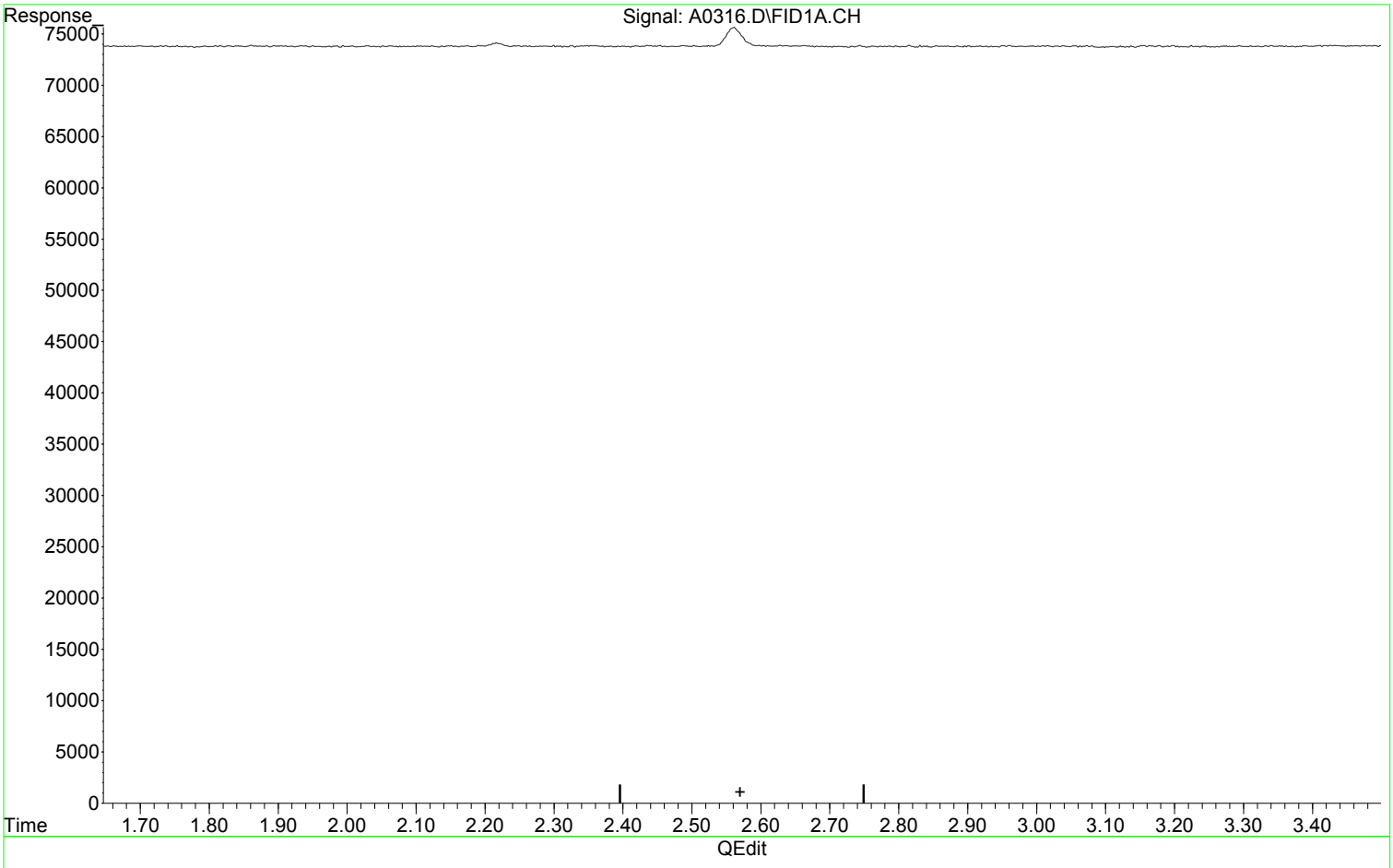
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0316.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 3:04 pm
Operator : F.NAEGLER
Sample : R2401280-013
Misc : CEC 979 T4
ALS Vial : 20 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 15:17:17 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.570min 0.000 ug/L
response 0

Manual Integration:
Before

02/16/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0316.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 3:04 pm
Operator : F.NAEGLER
Sample : R2401280-013
Misc : CEC 979 T4
ALS Vial : 20 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 15:17:17 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.463	3428784	60.560	ug/L	
2)	Acetylene	0.000	0	N.D.	ug/L	
3)	Ethylene	0.000	0	N.D.	ug/L	
4)	Ethane	2.561	30150	0.533	ug/L	m
5)	Propene	0.000	0	N.D.	ug/L	
6)	Propane	0.000	0	N.D.	ug/L	

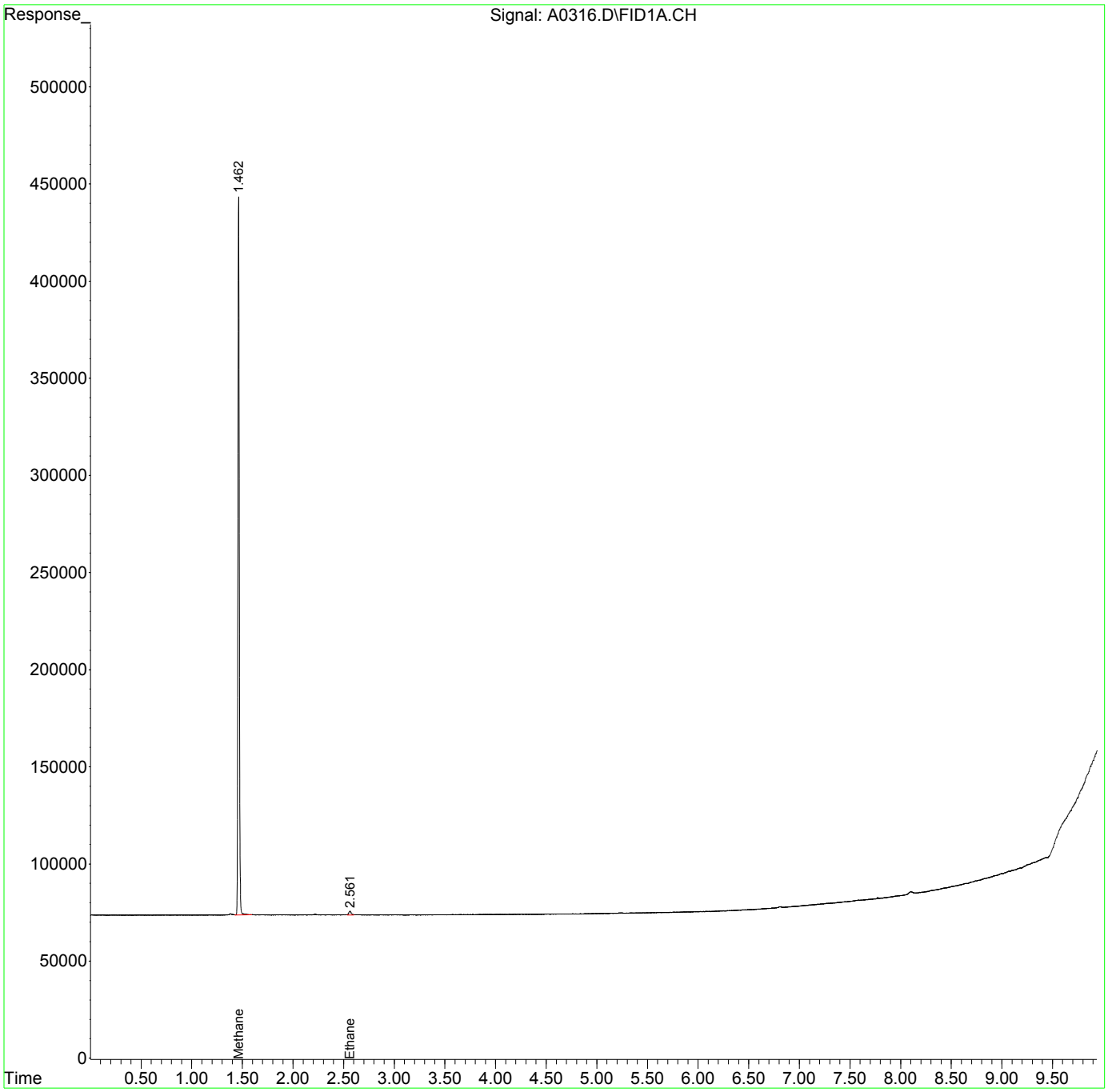
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0316.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 3:04 pm
Operator : F.NAEGLER
Sample : R2401280-013
Misc : CEC 979 T4
ALS Vial : 20 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 15:17:17 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



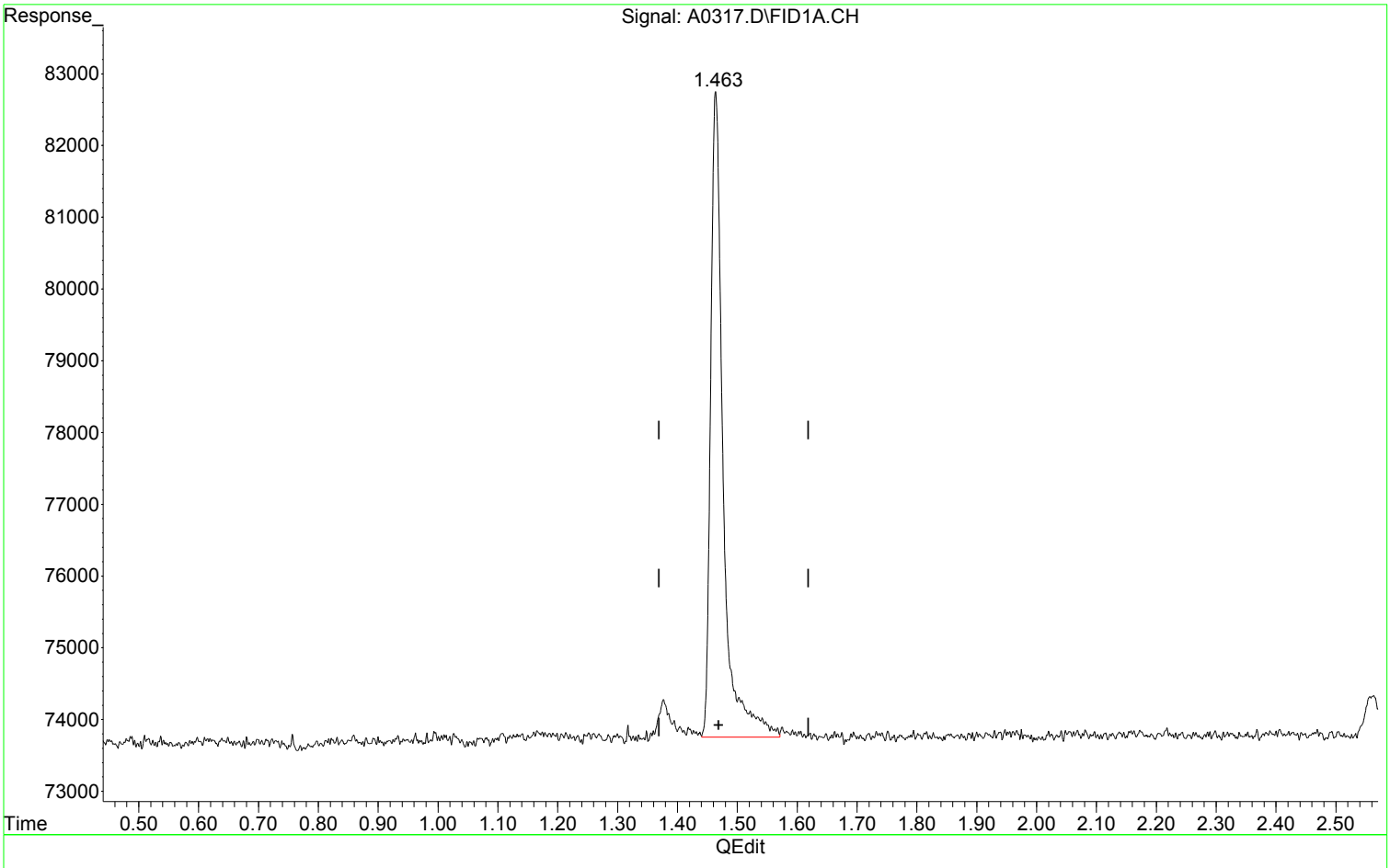
1st FN 02/16/24
2nd 02/19/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0317.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 3:19 pm
Operator : F.NAEGLER
Sample : R2401280-014
Misc : CEC 979 T4
ALS Vial : 21 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 15:29:26 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.463min -0.593 ug/L m

response 130409

Manual Integration:

After

Peak not found.

02/16/24

(+) = Expected Retention Time

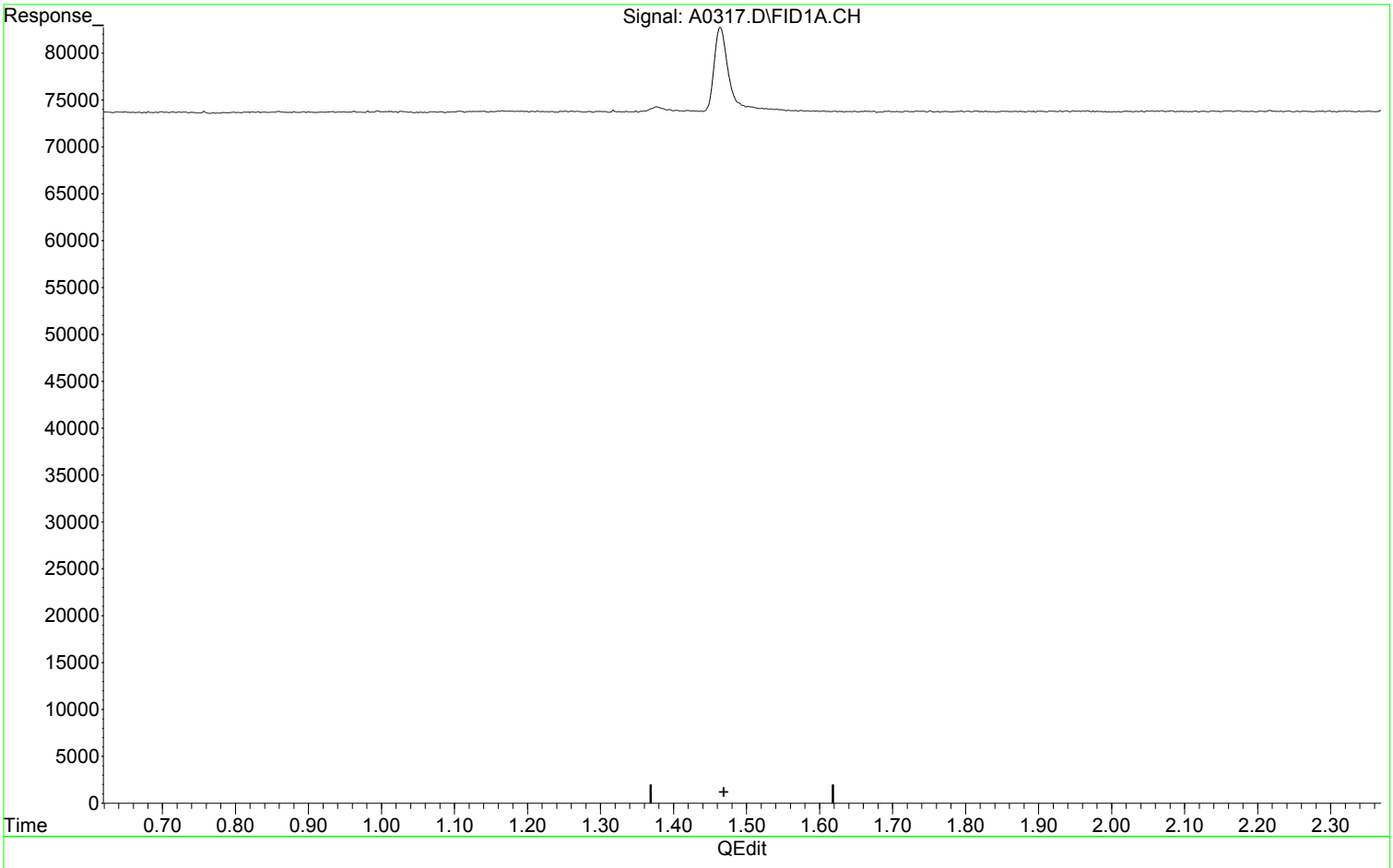
1st FN 02/16/24
2nd 02/19/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0317.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 3:19 pm
Operator : F.NAEGLER
Sample : R2401280-014
Misc : CEC 979 T4
ALS Vial : 21 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 15:29:26 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.469min 0.000 ug/L

response 0

Manual Integration:

Before

02/16/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0317.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 3:19 pm
Operator : F.NAEGLER
Sample : R2401280-014
Misc : CEC 979 T4
ALS Vial : 21 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 15:29:26 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.463	130409	N.D.	ug/L m
2)	Acetylene	0.000	0	N.D.	ug/L
3)	Ethylene	0.000	0	N.D.	ug/L
4)	Ethane	0.000	0	N.D.	ug/L
5)	Propene	0.000	0	N.D.	ug/L
6)	Propane	0.000	0	N.D.	ug/L

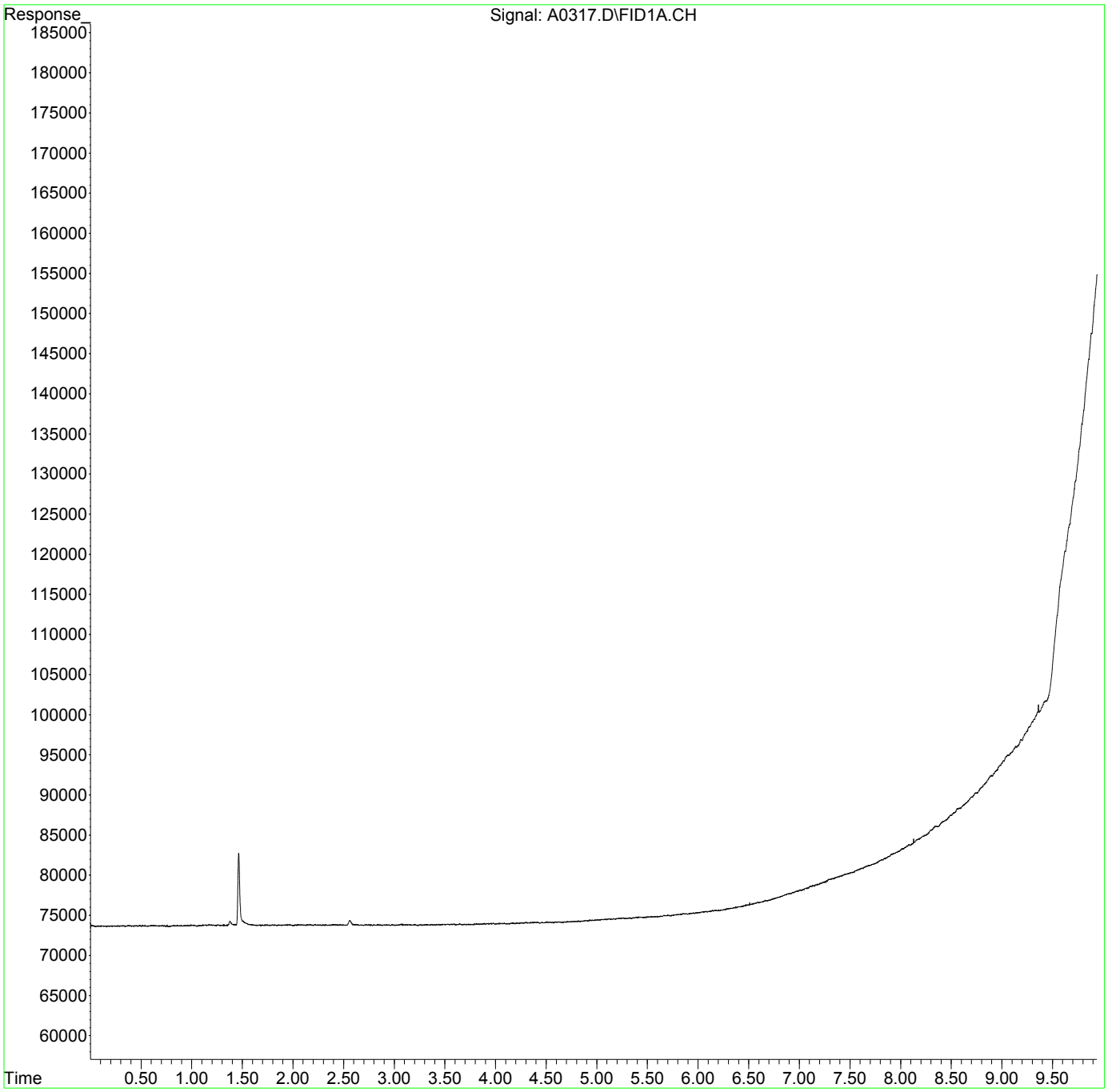
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0317.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 3:19 pm
Operator : F.NAEGLER
Sample : R2401280-014
Misc : CEC 979 T4
ALS Vial : 21 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 15:29:26 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

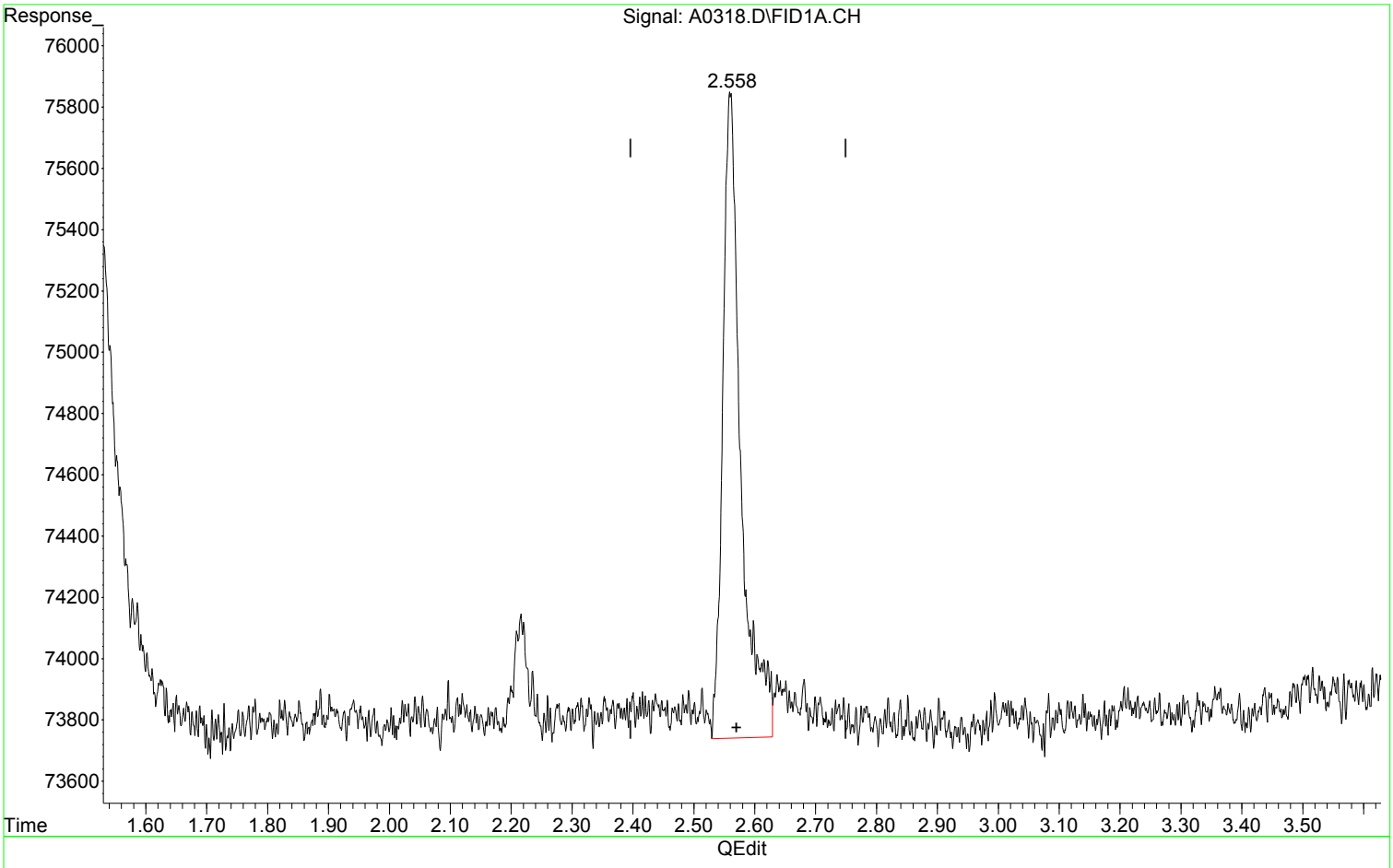


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0318.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 3:32 pm
Operator : F.NAEGLER
Sample : R2401280-015
Misc : CEC 979 T4
ALS Vial : 22 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 15:43:15 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.558min 0.767 ug/L m
response 43418

Manual Integration:
After
Peak not found.
02/16/24

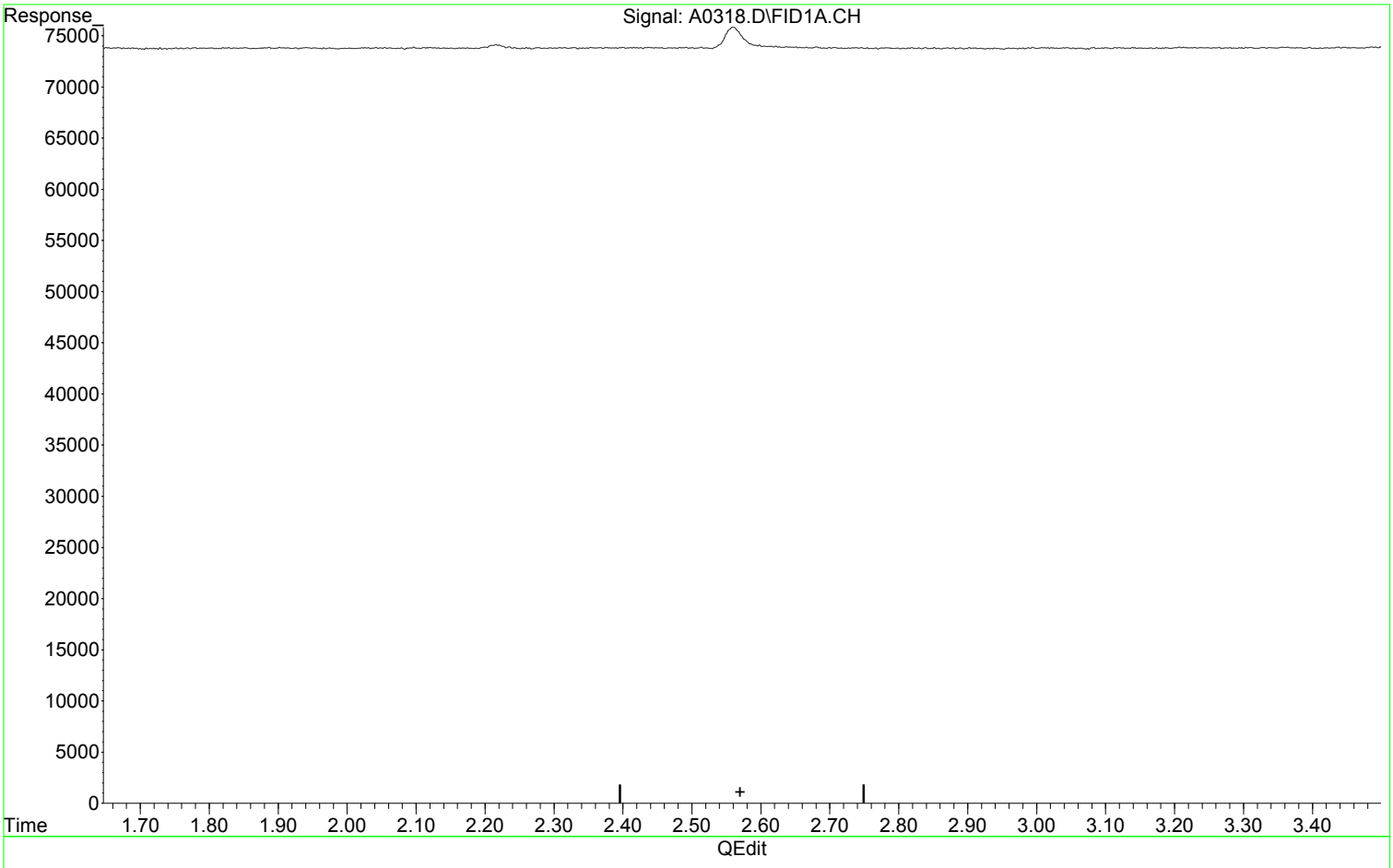
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0318.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 3:32 pm
Operator : F.NAEGLER
Sample : R2401280-015
Misc : CEC 979 T4
ALS Vial : 22 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 15:43:15 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.570min 0.000 ug/L
response 0

Manual Integration:
Before

02/16/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0318.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 3:32 pm
Operator : F.NAEGLER
Sample : R2401280-015
Misc : CEC 979 T4
ALS Vial : 22 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 15:43:15 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.460	3630071	64.292	ug/L	
2)	Acetylene	0.000	0	N.D.	ug/L	
3)	Ethylene	0.000	0	N.D.	ug/L	
4)	Ethane	2.558	43418	0.767	ug/L	m
5)	Propene	0.000	0	N.D.	ug/L	
6)	Propane	0.000	0	N.D.	ug/L	

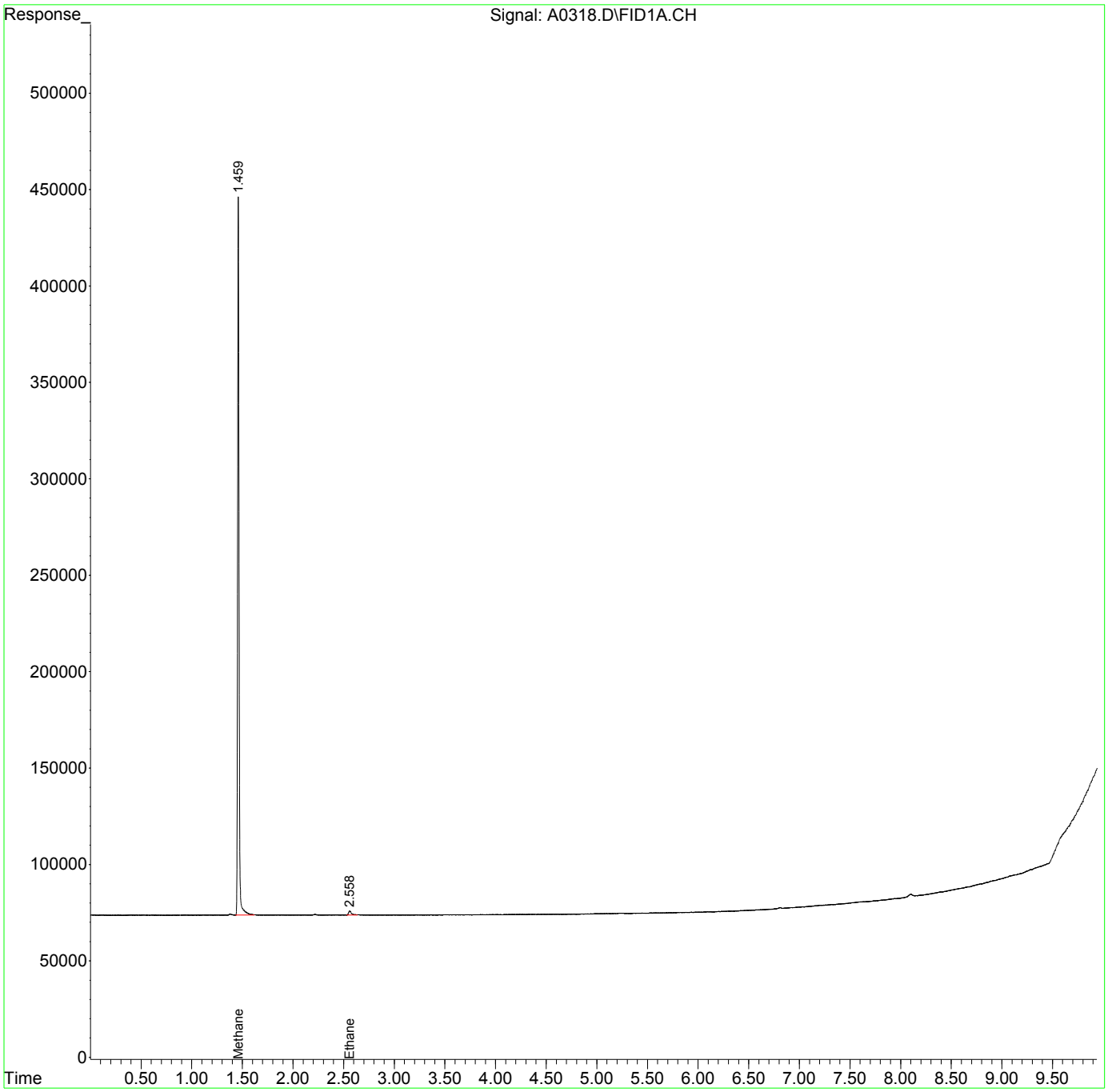
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0318.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 3:32 pm
Operator : F.NAEGLER
Sample : R2401280-015
Misc : CEC 979 T4
ALS Vial : 22 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 15:43:15 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0320.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 4:00 pm
Operator : F.NAEGLER
Sample : R2401280-016|10.0
Misc : CEC 979 T4
ALS Vial : 24 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 16:10:50 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.464	22104918	406.819	ug/L
2)	Acetylene	0.000	0	N.D.	ug/L
3)	Ethylene	0.000	0	N.D.	ug/L
4)	Ethane	0.000	0	N.D.	ug/L
5)	Propene	0.000	0	N.D.	ug/L
6)	Propane	0.000	0	N.D.	ug/L

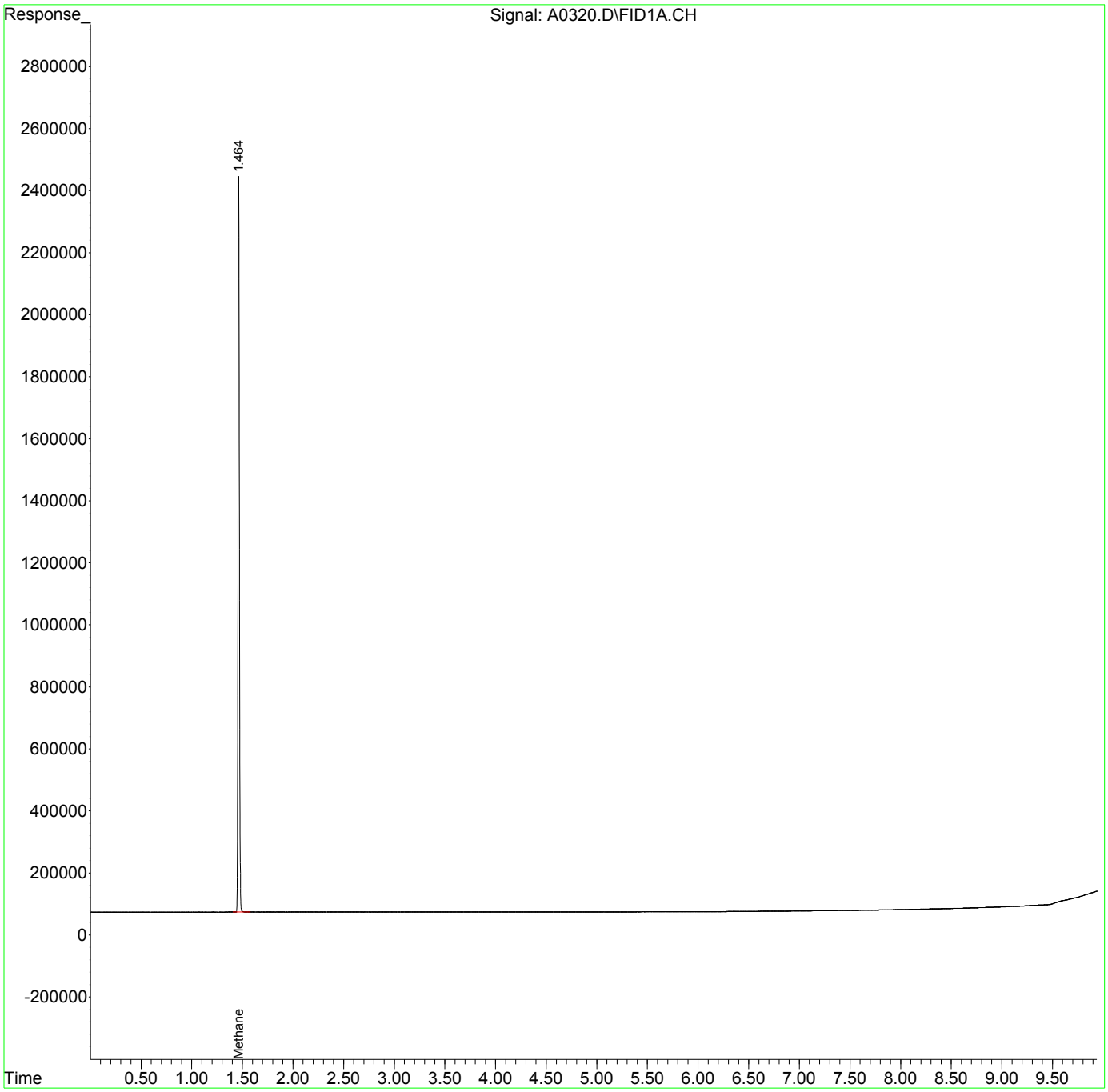
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0320.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 4:00 pm
Operator : F.NAEGLER
Sample : R2401280-016|10.0
Misc : CEC 979 T4
ALS Vial : 24 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 16:10:50 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



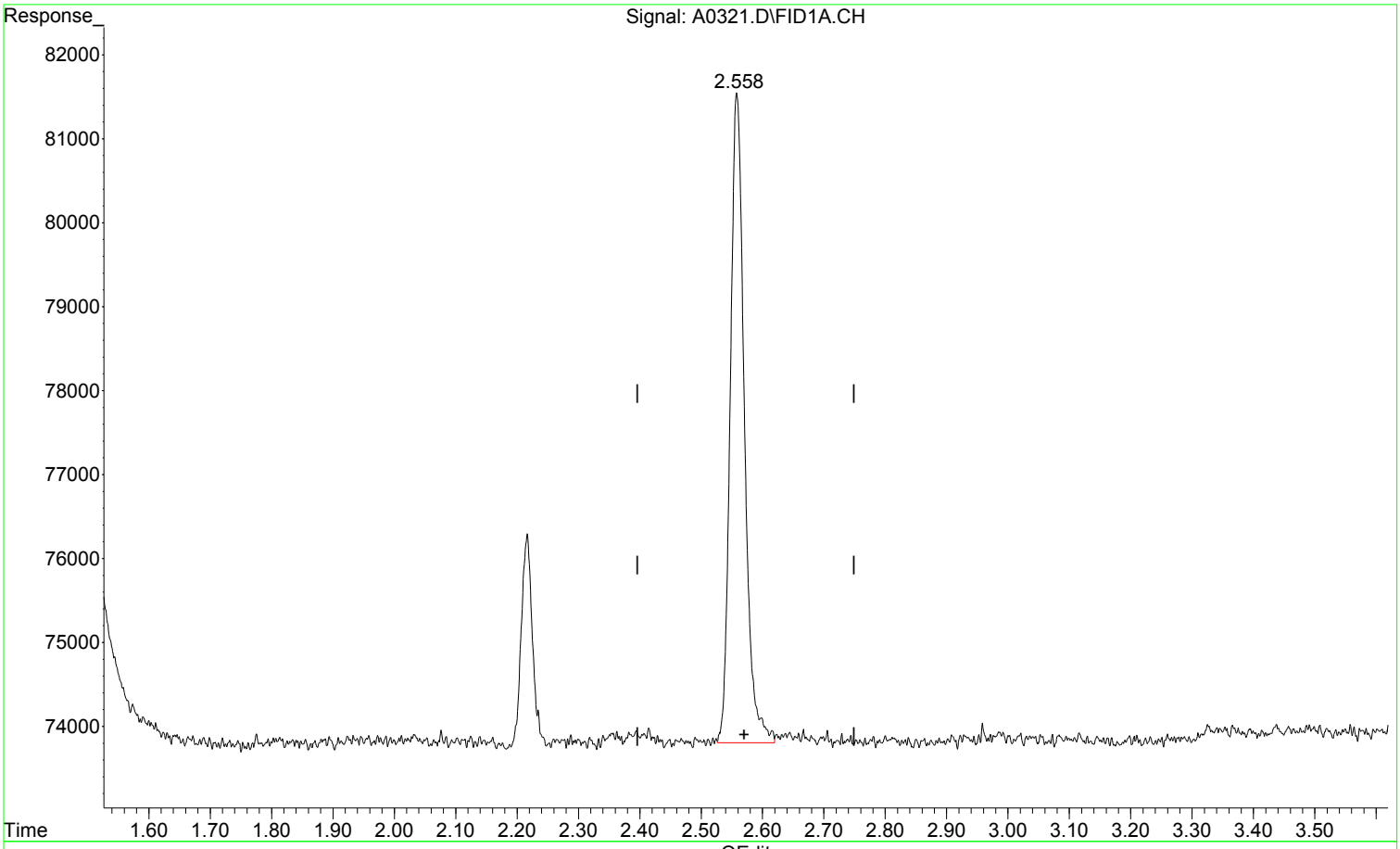
1st FN 02/16/24
2nd 02/19/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0321.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 4:14 pm
Operator : F.NAEGLER
Sample : R2401280-017|2.0
Misc : CEC 979 T4
ALS Vial : 24 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 16:26:11 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.558min 2.189 ug/L m
response 123811

Manual Integration:
After
Peak not found.
02/16/24

(+) = Expected Retention Time

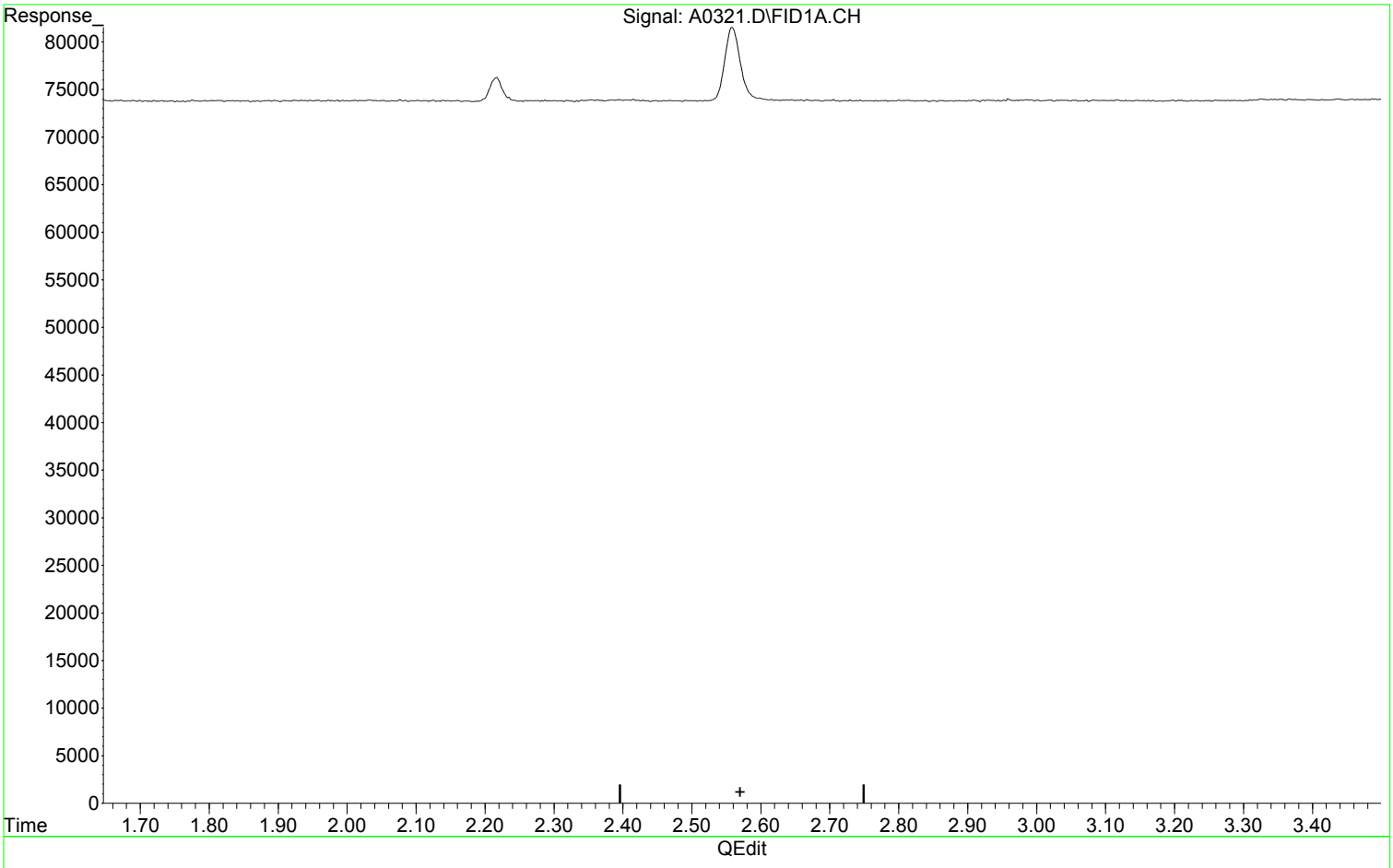
1st FJ 02/16/24
2nd 02/19/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0321.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 4:14 pm
Operator : F.NAEGLER
Sample : R2401280-017|2.0
Misc : CEC 979 T4
ALS Vial : 24 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 16:26:11 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.570min 0.000 ug/L
response 0

Manual Integration:
Before

02/16/24

(+) = Expected Retention Time

1st FW 02/16/24
2nd 02/19/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0321.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 4:14 pm
Operator : F.NAEGLER
Sample : R2401280-017|2.0
Misc : CEC 979 T4
ALS Vial : 24 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 16:26:11 2024 rpt 1/20
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.461	142652304	2641.791	ug/L	E-Over Calibration
2)	Acetylene	0.000	0	N.D.	ug/L	
3)	Ethylene	0.000	0	N.D.	ug/L	
4)	Ethane	2.558	123811	2.189	ug/L	m
5)	Propene	0.000	0	N.D.	ug/L	
6)	Propane	0.000	0	N.D.	ug/L	

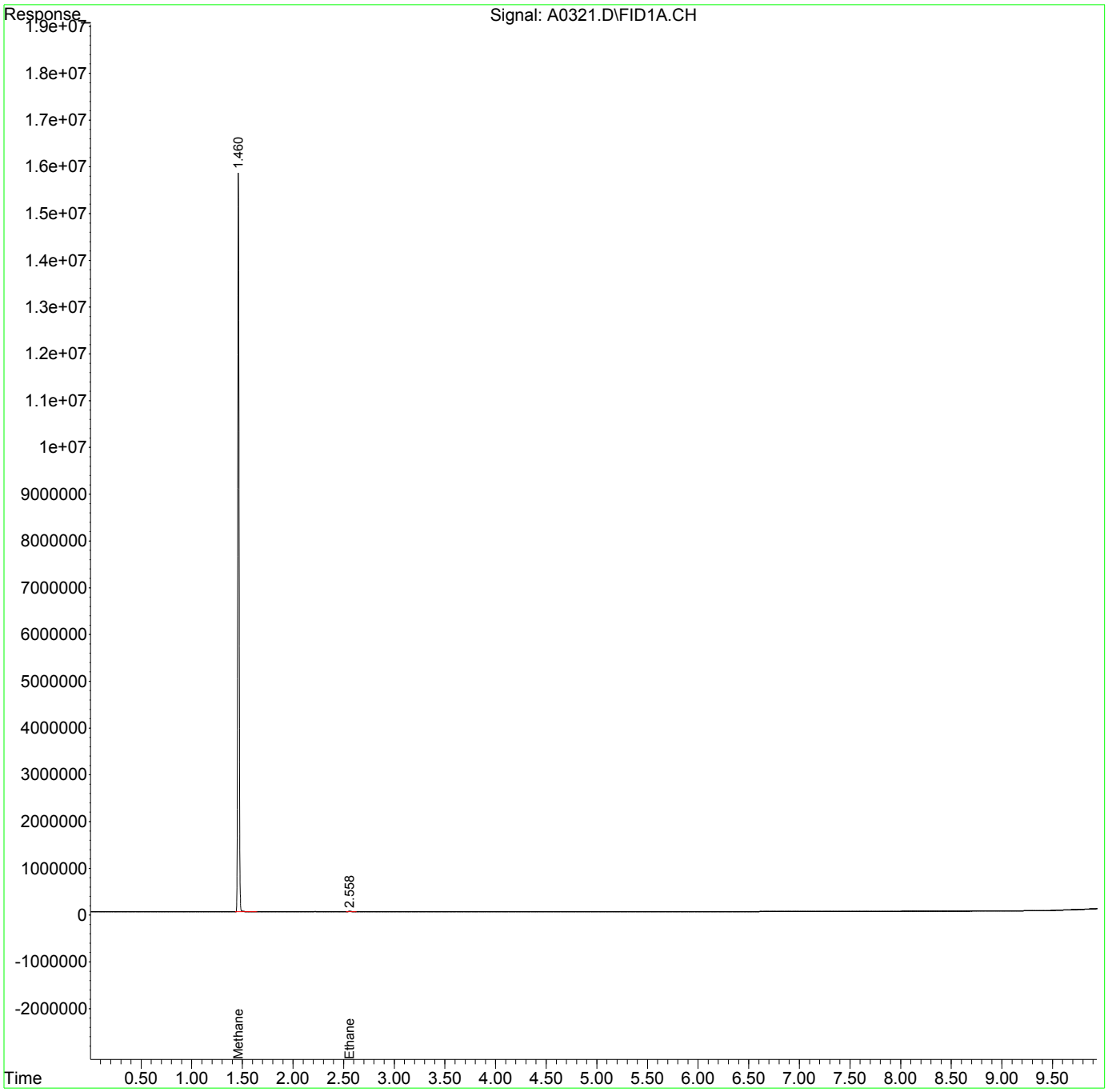
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0321.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 4:14 pm
Operator : F.NAEGLER
Sample : R2401280-017|2.0
Misc : CEC 979 T4
ALS Vial : 24 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 16:26:11 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

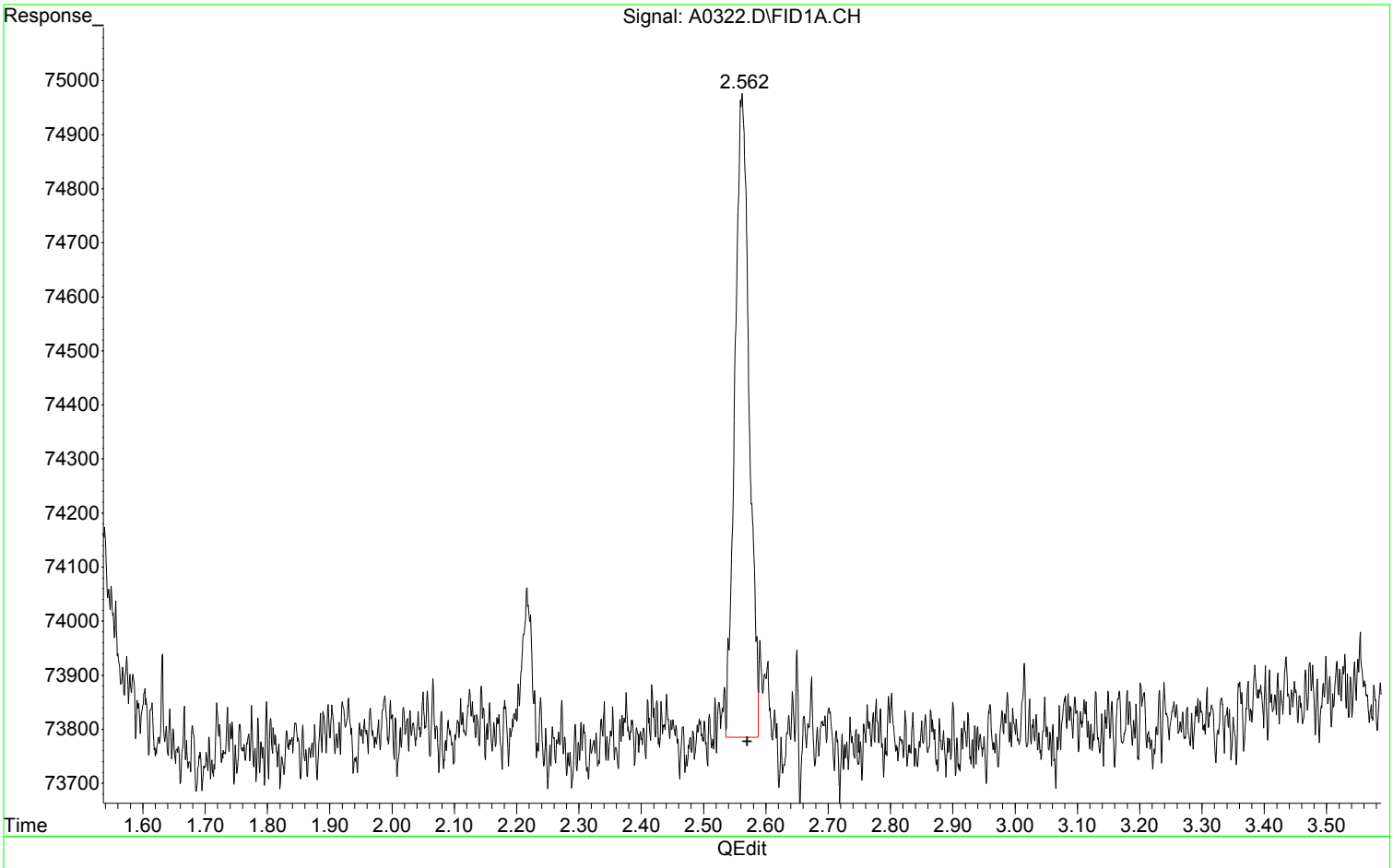


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0322.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 4:28 pm
Operator : F.NAEGLER
Sample : R2401280-017|20.0
Misc : CEC 979 T4
ALS Vial : 25 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 16:39:58 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.562min 0.333 ug/L m
response 18853

Manual Integration:
After
Peak not found.
02/16/24

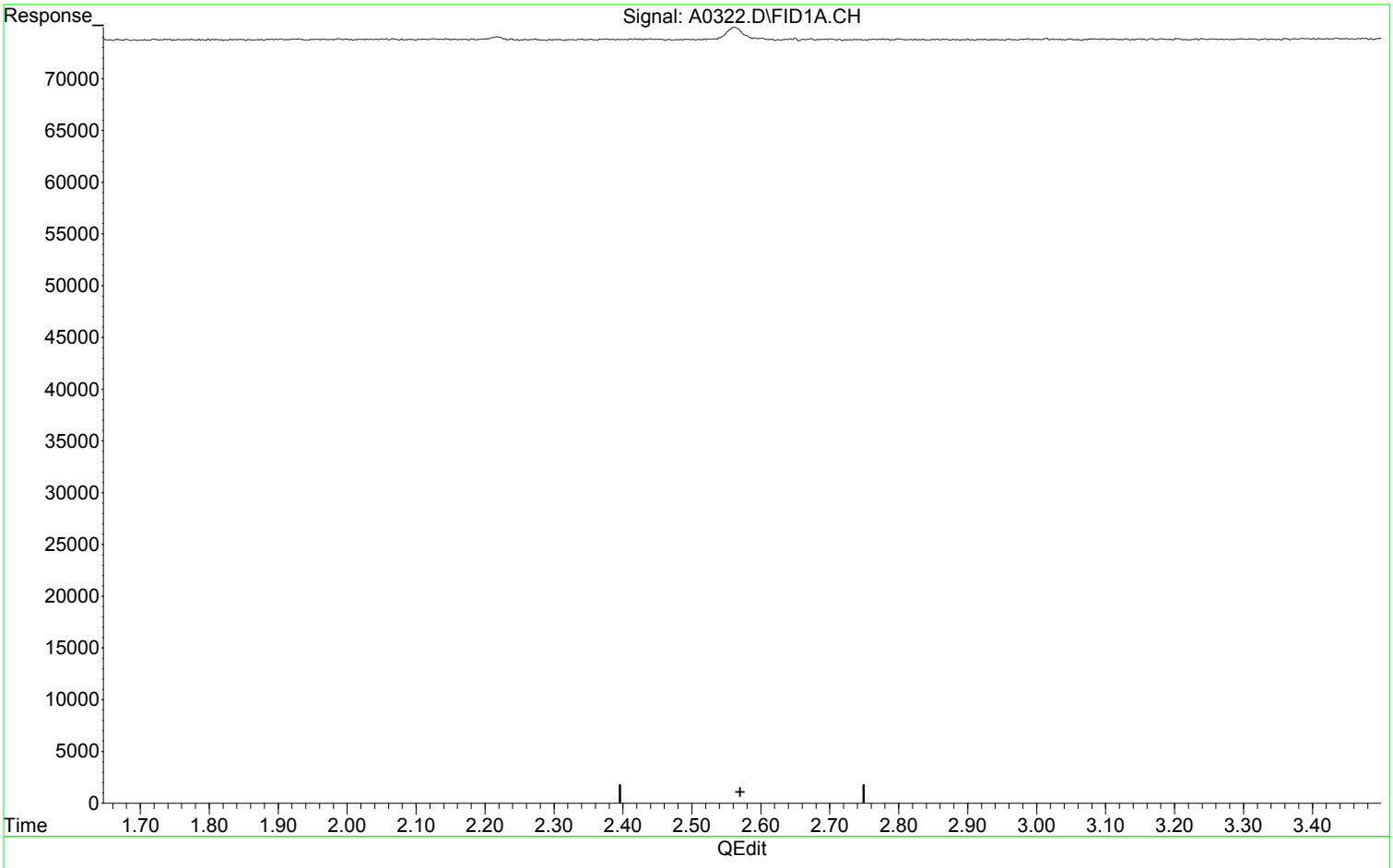
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0322.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 4:28 pm
Operator : F.NAEGLER
Sample : R2401280-017|20.0
Misc : CEC 979 T4
ALS Vial : 25 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 16:39:58 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.570min 0.000 ug/L
response 0

Manual Integration:
Before

02/16/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0322.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 4:28 pm
Operator : F.NAEGLER
Sample : R2401280-017|20.0
Misc : CEC 979 T4
ALS Vial : 25 Sample Multiplier: 1

DL

Integration File: EVENTS.E
Quant Time: Feb 16 16:39:58 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.463	13011161	238.219	ug/L	
2)	Acetylene	0.000	0	N.D.	ug/L	
3)	Ethylene	0.000	0	N.D.	ug/L	
4)	Ethane	2.562	18853	0.333	ug/L	m
5)	Propene	0.000	0	N.D.	ug/L	
6)	Propane	0.000	0	N.D.	ug/L	

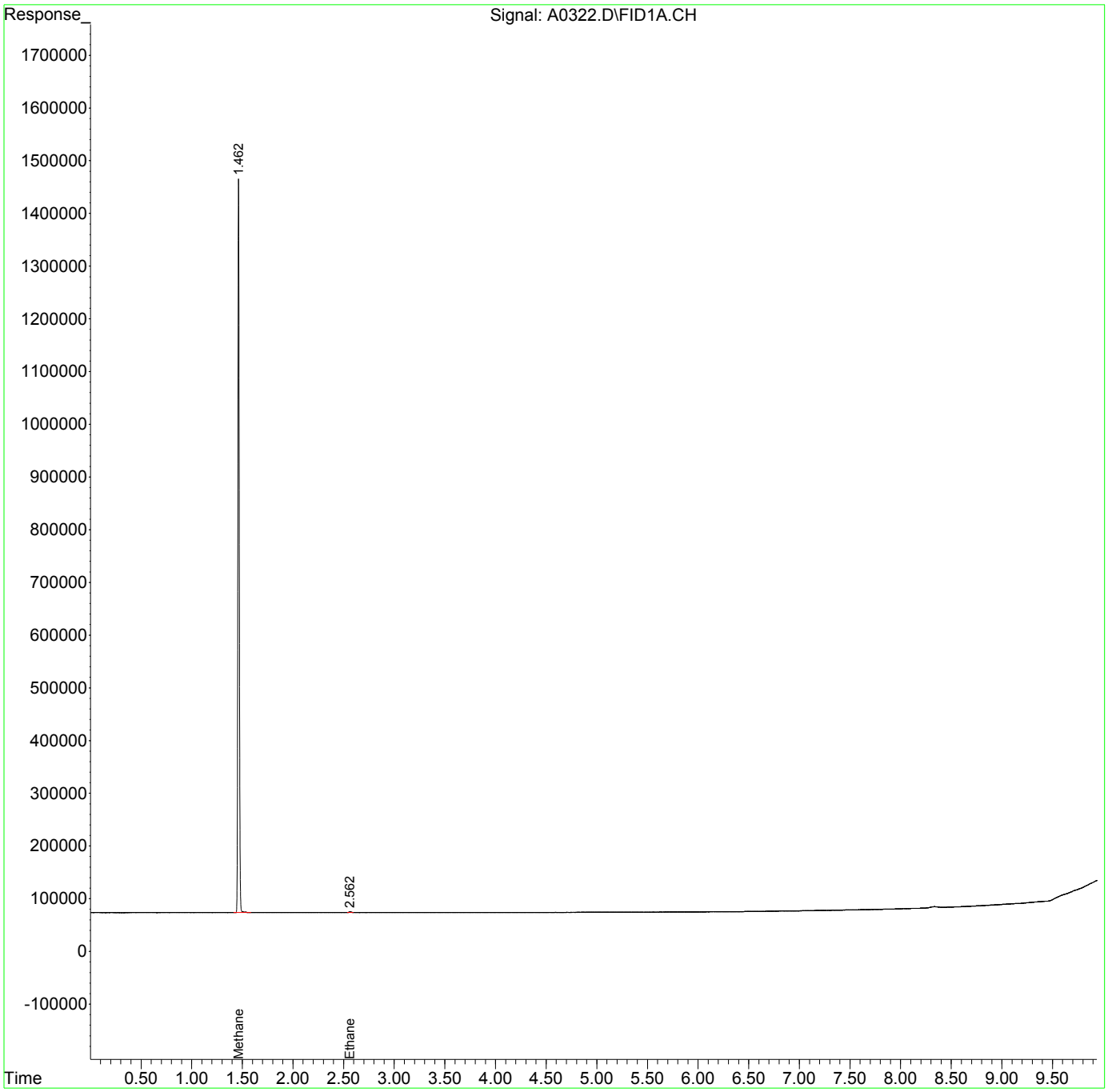
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0322.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 4:28 pm
Operator : F.NAEGLER
Sample : R2401280-017|20.0
Misc : CEC 979 T4
ALS Vial : 25 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 16:39:58 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

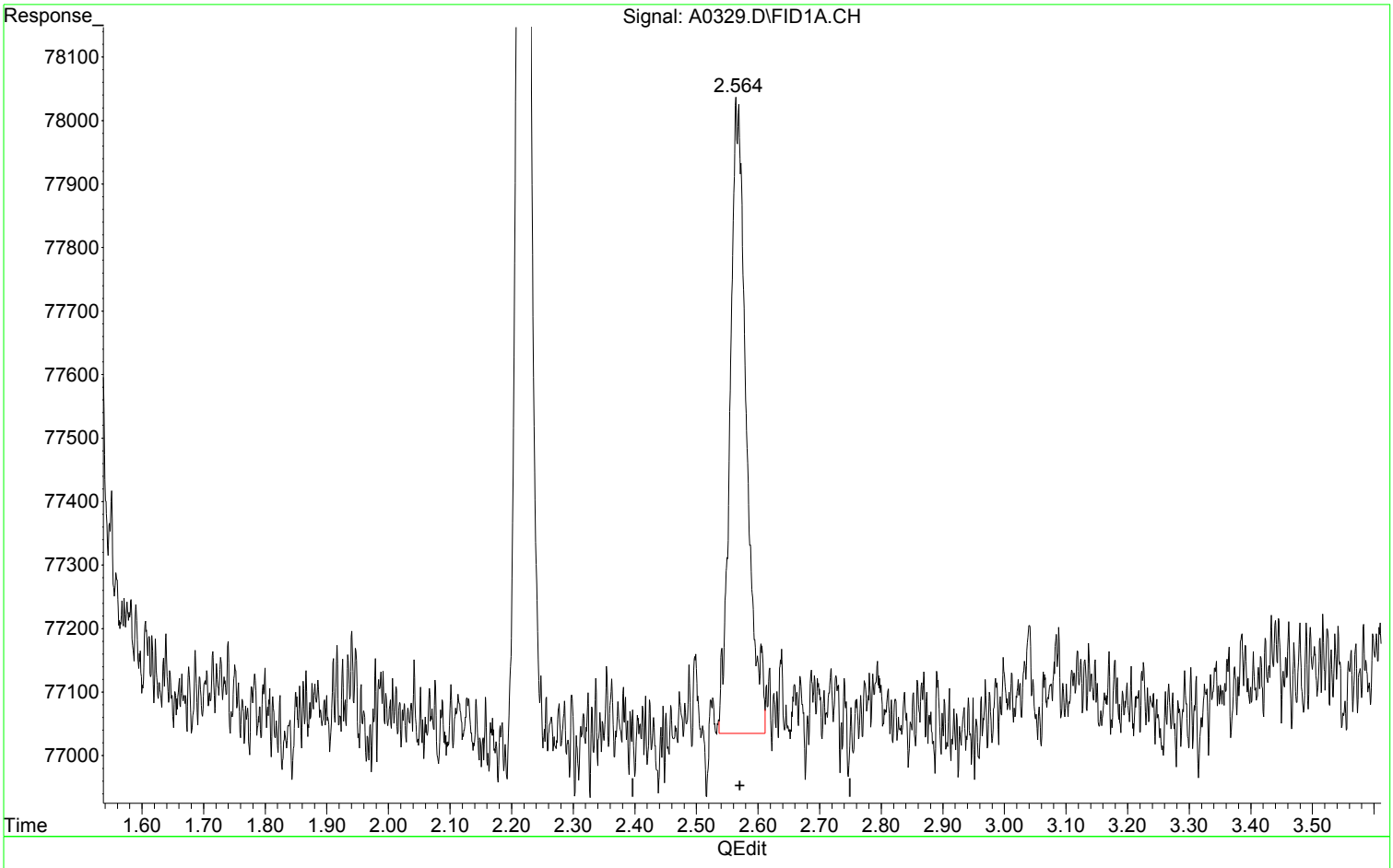


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0329.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 11:27 am
Operator : F.NAEGLER
Sample : R2401280-018|20.0
Misc : CEC 979 T4
ALS Vial : 6 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 11:38:46 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.564min 0.324 ug/L m
response 18340

Manual Integration:
After
Peak not found.
02/23/24

(+) = Expected Retention Time

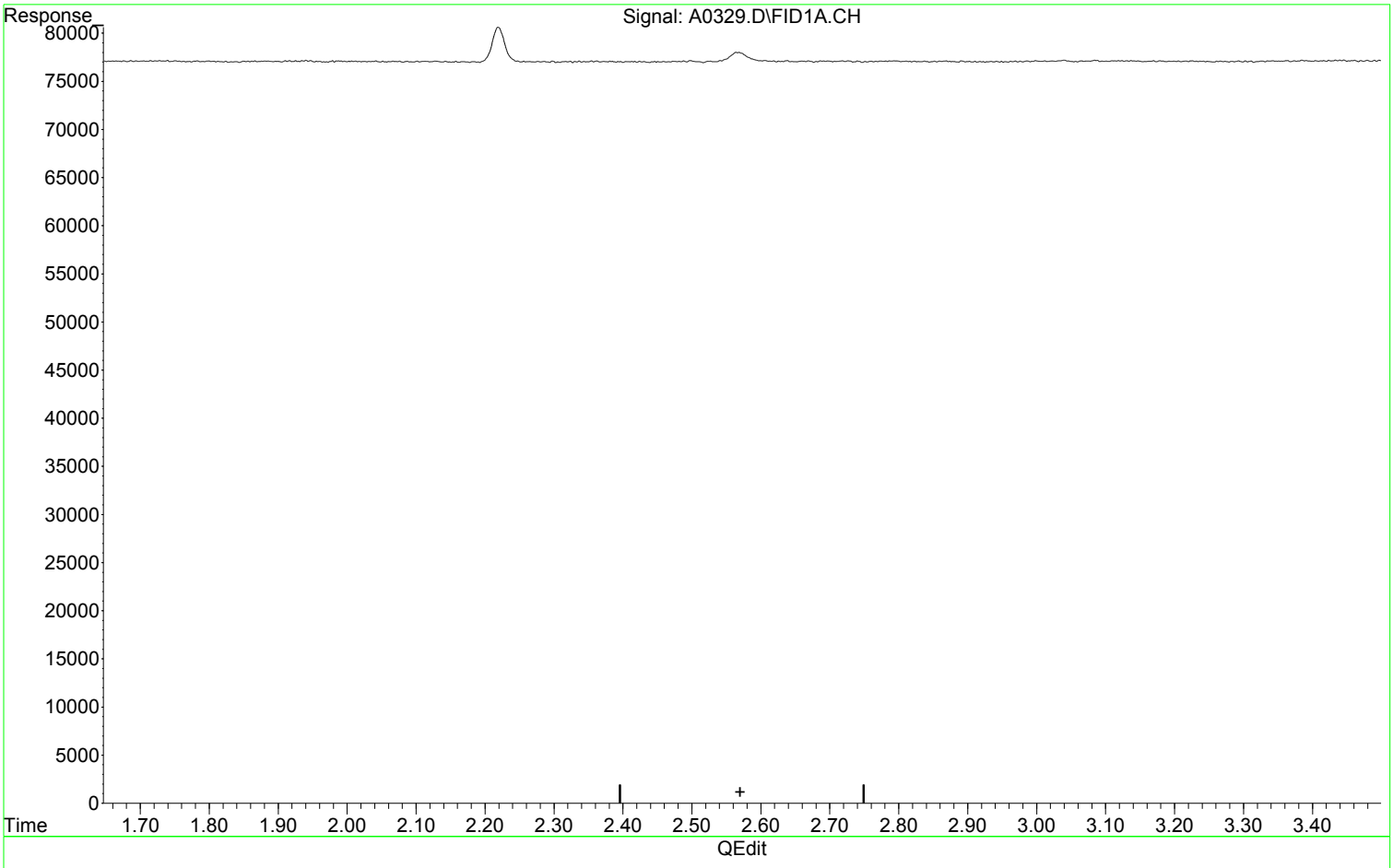
1st FN 02/23/24
2nd 02/23/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0329.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 11:27 am
Operator : F.NAEGLER
Sample : R2401280-018|20.0
Misc : CEC 979 T4
ALS Vial : 6 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 11:38:46 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.570min 0.000 ug/L
response 0

Manual Integration:
Before

02/23/24

(+) = Expected Retention Time

1st FW 02/23/24
2nd 02/23/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0329.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 11:27 am
Operator : F.NAEGLER
Sample : R2401280-018|20.0
Misc : CEC 979 T4
ALS Vial : 6 Sample Multiplier: 1

rpt 1/50

Integration File: EVENTS.E
Quant Time: Feb 23 11:38:46 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.464	30845075	568.863	ug/L	E-Over Calibration
2)	Acetylene	0.000	0	N.D.	ug/L	
3)	Ethylene	0.000	0	N.D.	ug/L	
4)	Ethane	2.564	18340	0.324	ug/L	m
5)	Propene	0.000	0	N.D.	ug/L	
6)	Propane	0.000	0	N.D.	ug/L	

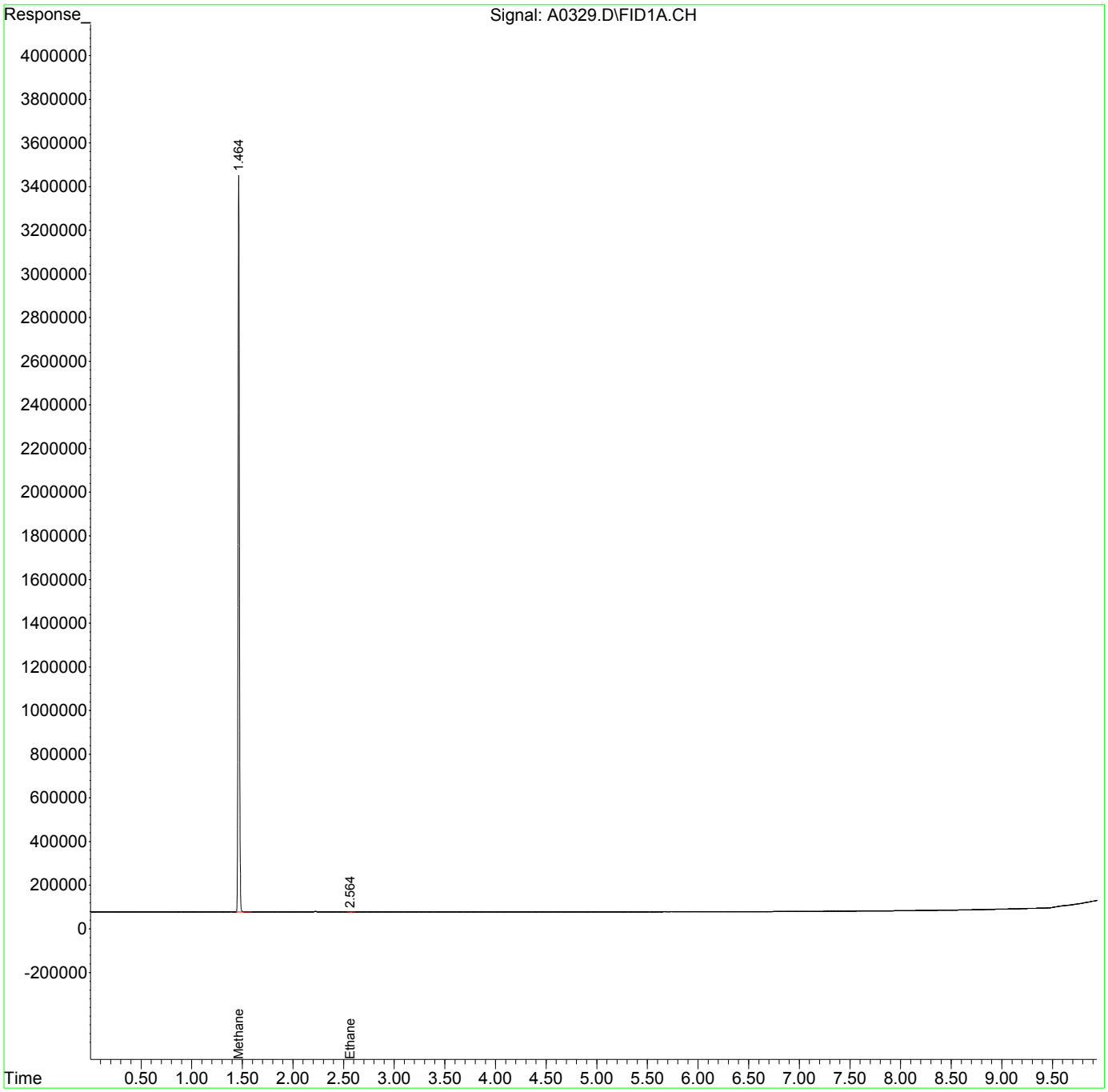
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0329.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 11:27 am
Operator : F.NAEGLER
Sample : R2401280-018|20.0
Misc : CEC 979 T4
ALS Vial : 6 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 11:38:46 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



1st FW 02/23/24
2nd 02/23/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0330.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 11:41 am
Operator : F.NAEGLER
Sample : R2401280-018|50.0
Misc : CEC 979 T4
ALS Vial : 7 Sample Multiplier: 1

DL

Integration File: EVENTS.E
Quant Time: Feb 23 11:53:13 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.464	13187975	241.497	ug/L
2)	Acetylene	0.000	0	N.D.	ug/L
3)	Ethylene	0.000	0	N.D.	ug/L
4)	Ethane	0.000	0	N.D.	ug/L
5)	Propene	0.000	0	N.D.	ug/L
6)	Propane	0.000	0	N.D.	ug/L

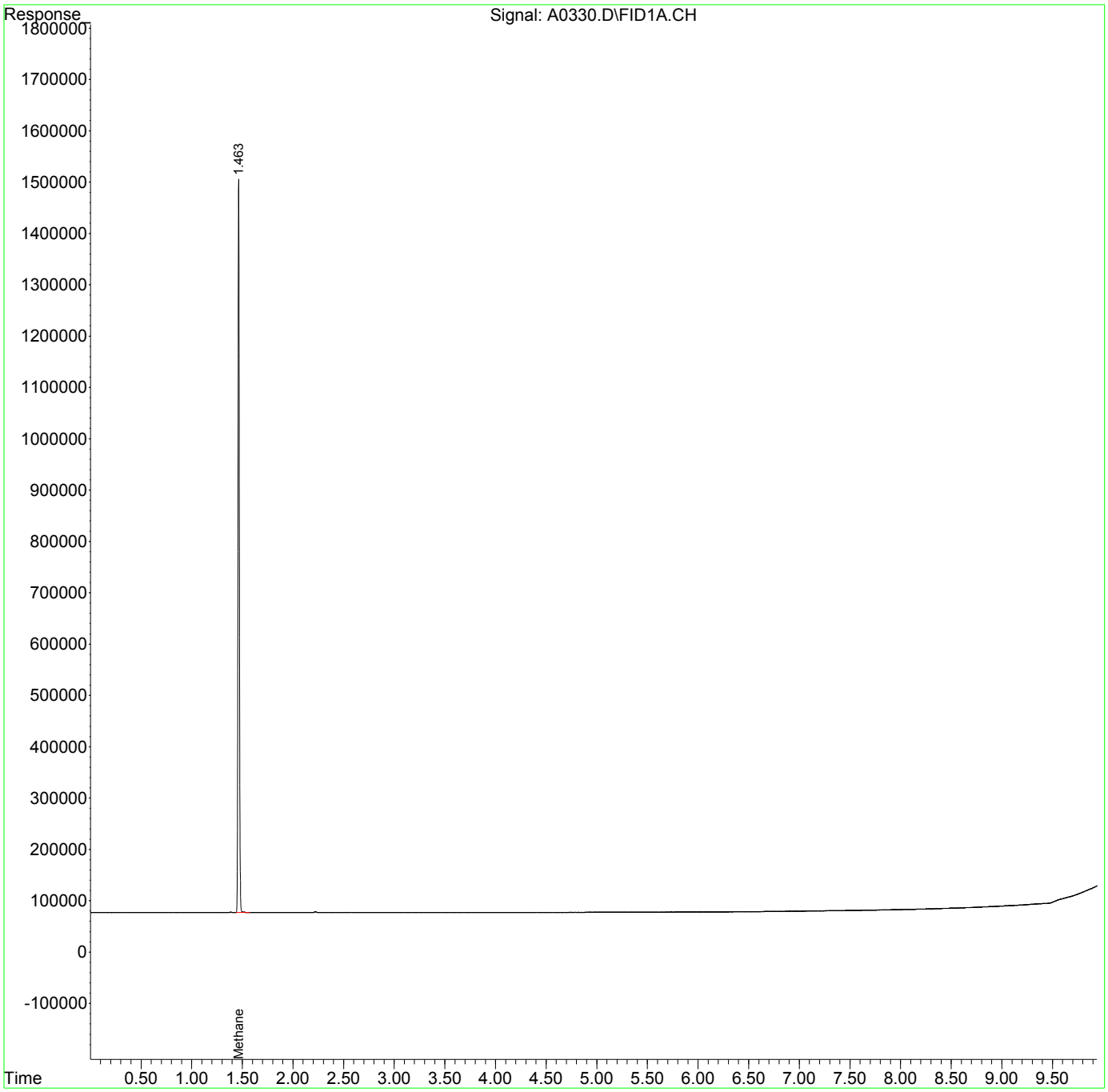
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0330.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 11:41 am
Operator : F.NAEGLER
Sample : R2401280-018|50.0
Misc : CEC 979 T4
ALS Vial : 7 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 11:53:13 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0333.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 12:46 pm
Operator : F.NAEGLER
Sample : R2401280-019
Misc : CEC 979 T4
ALS Vial : 10 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 12:56:32 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.463	2042271	34.854	ug/L
2)	Acetylene	0.000	0	N.D.	ug/L
3)	Ethylene	0.000	0	N.D.	ug/L
4)	Ethane	0.000	0	N.D.	ug/L
5)	Propene	0.000	0	N.D.	ug/L
6)	Propane	0.000	0	N.D.	ug/L

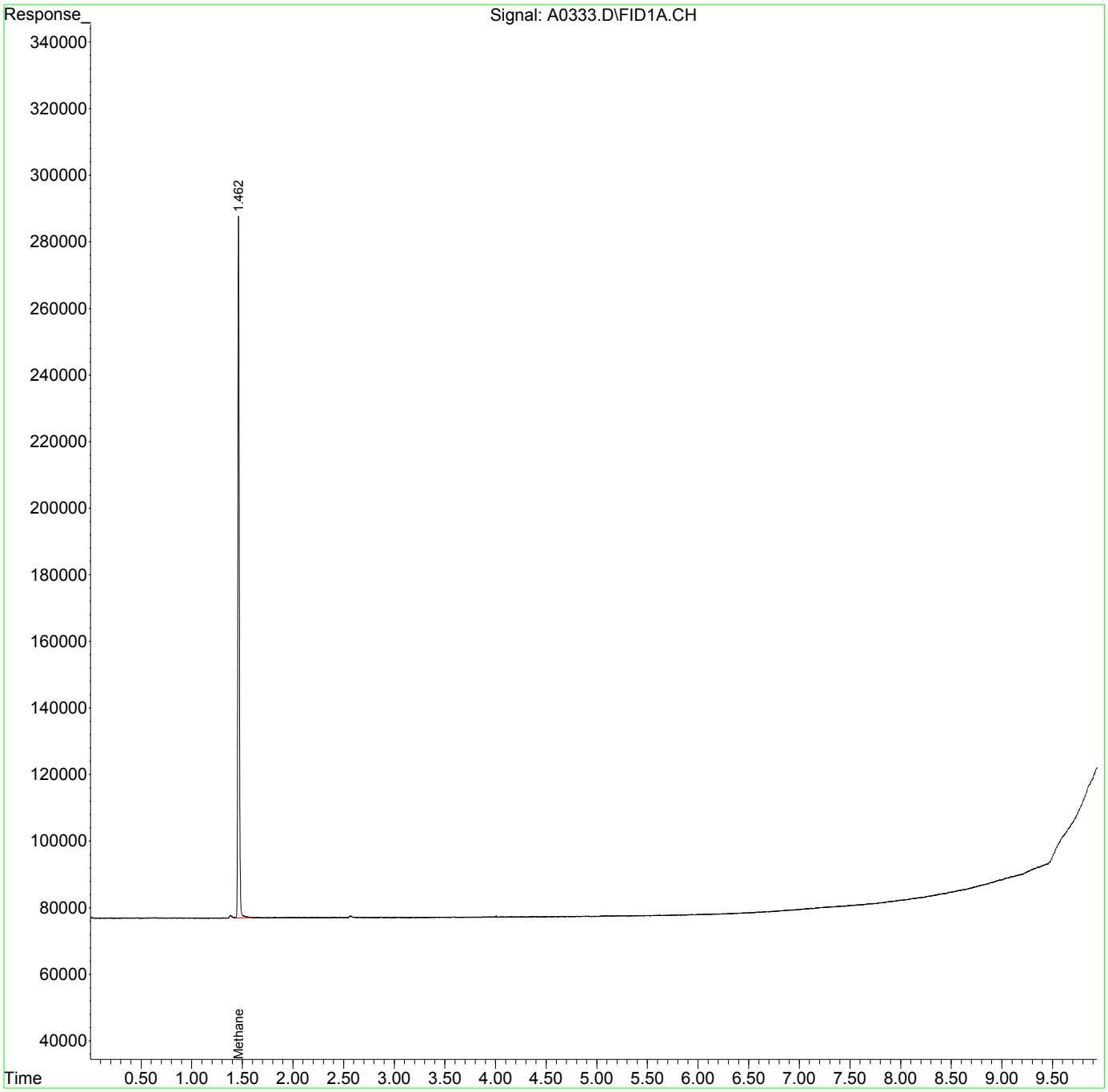
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0333.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 12:46 pm
Operator : F.NAEGLER
Sample : R2401280-019
Misc : CEC 979 T4
ALS Vial : 10 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 12:56:32 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

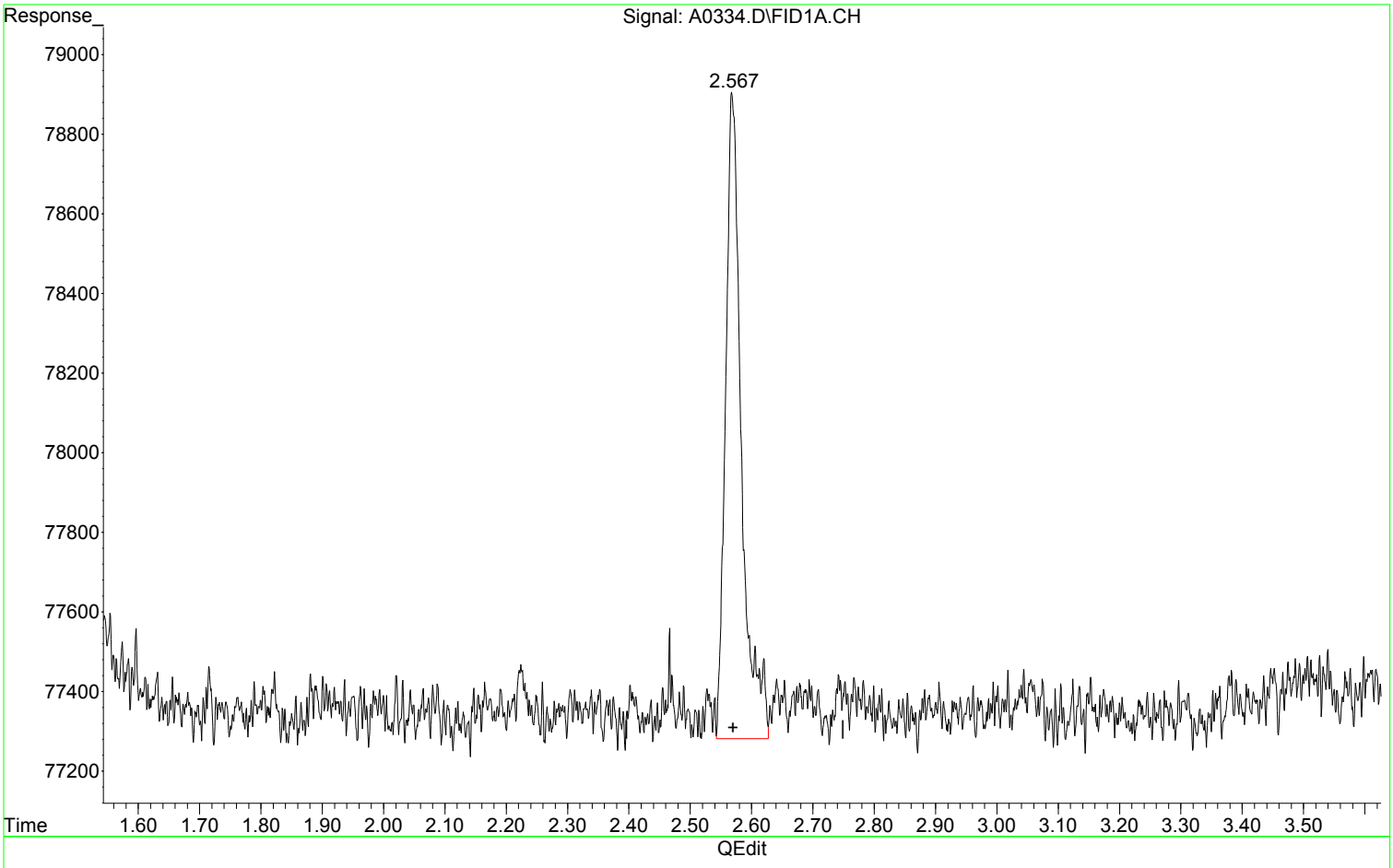


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0334.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 1:00 pm
Operator : F.NAEGLER
Sample : R2401280-020
Misc : CEC 979 T4
ALS Vial : 11 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 13:10:47 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.567min 0.515 ug/L m
response 29108

Manual Integration:
After
Peak not found.
02/23/24

(+) = Expected Retention Time

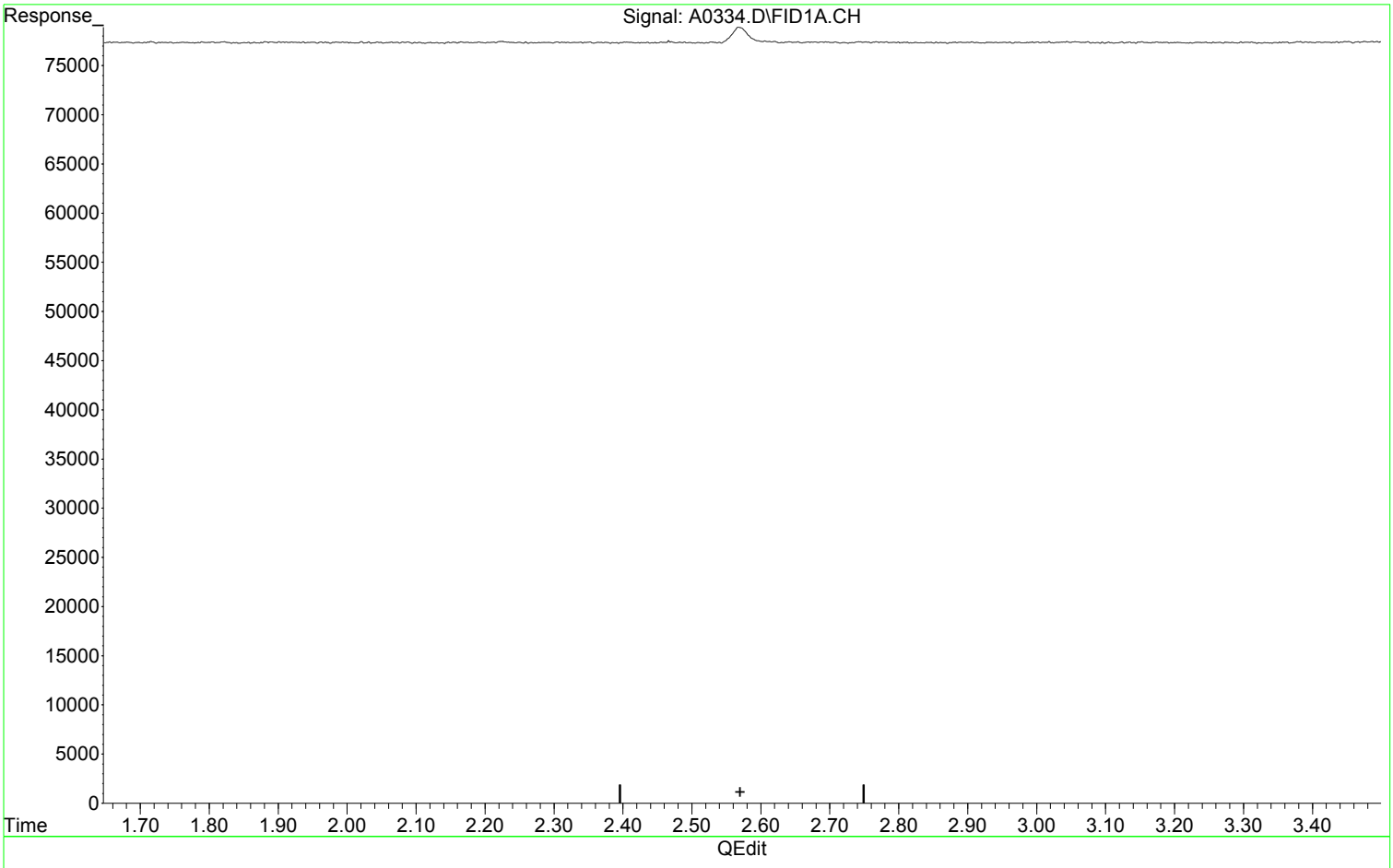
1st FN 02/23/24
2nd 02/23/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0334.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 1:00 pm
Operator : F.NAEGLER
Sample : R2401280-020
Misc : CEC 979 T4
ALS Vial : 11 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 13:10:47 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.570min 0.000 ug/L
response 0

Manual Integration:
Before

02/23/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0334.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 1:00 pm
Operator : F.NAEGLER
Sample : R2401280-020
Misc : CEC 979 T4
ALS Vial : 11 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 13:10:47 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.474	336210	3.223	ug/L	
2)	Acetylene	0.000	0	N.D.	ug/L	
3)	Ethylene	0.000	0	N.D.	ug/L	
4)	Ethane	2.567	29108	0.515	ug/L	m
5)	Propene	0.000	0	N.D.	ug/L	
6)	Propane	0.000	0	N.D.	ug/L	

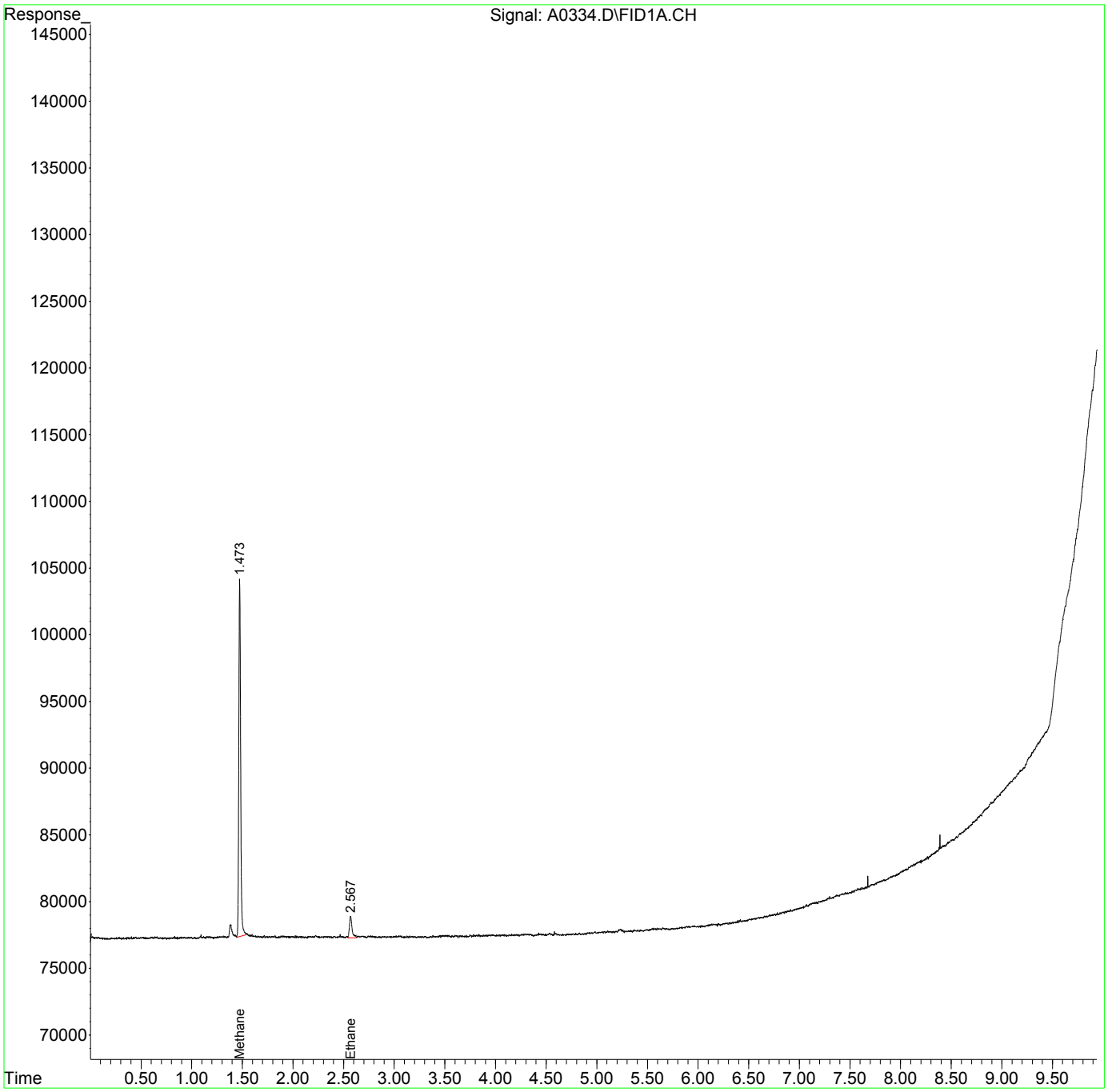
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0334.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 1:00 pm
Operator : F.NAEGLER
Sample : R2401280-020
Misc : CEC 979 T4
ALS Vial : 11 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 13:10:47 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

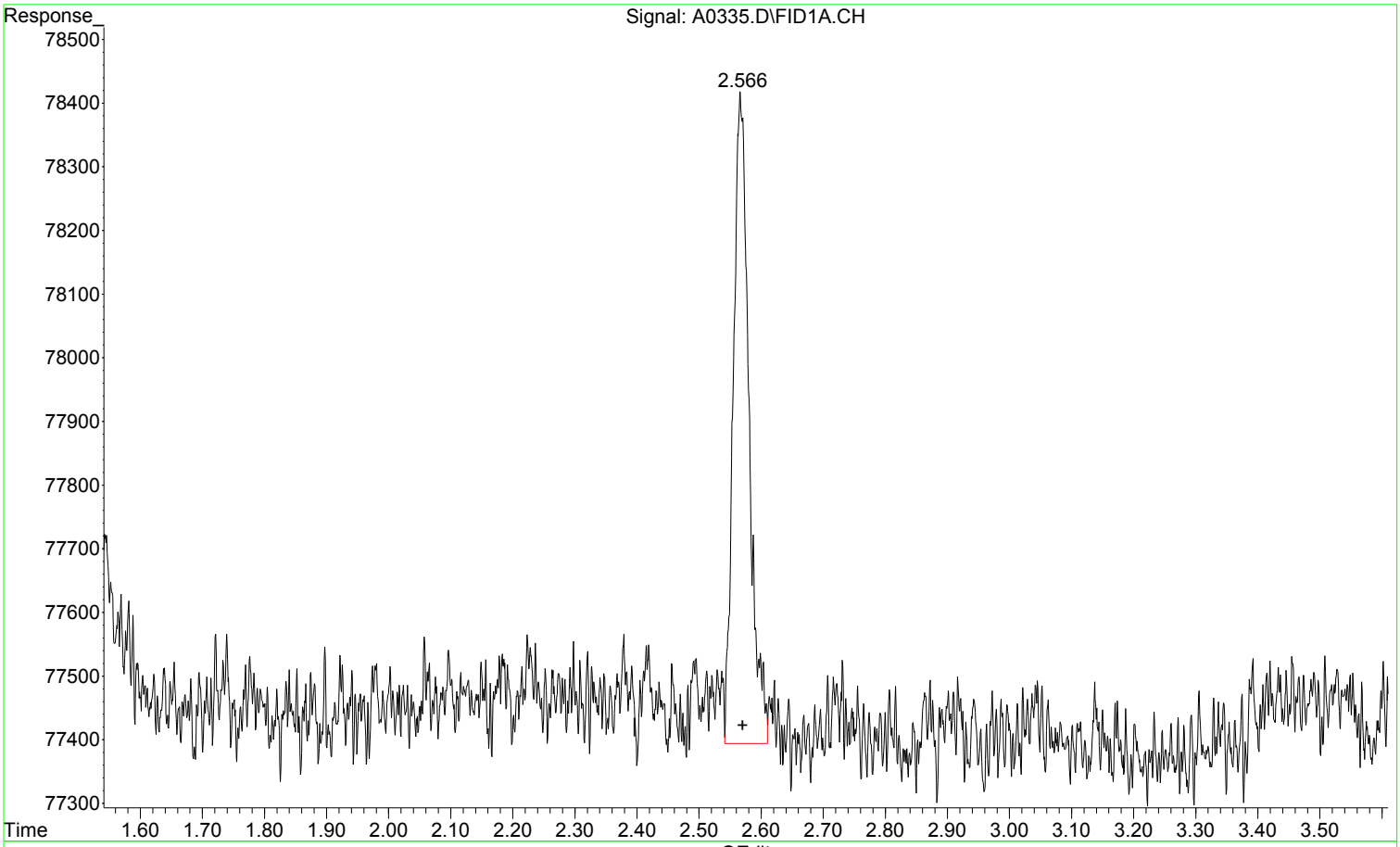


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0335.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 1:13 pm
Operator : F.NAEGLER
Sample : R2401280-022
Misc : CEC 979 T4
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 13:24:21 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane

2.566min 0.318 ug/L m

response 17976

Manual Integration:

After

Peak not found.

02/23/24

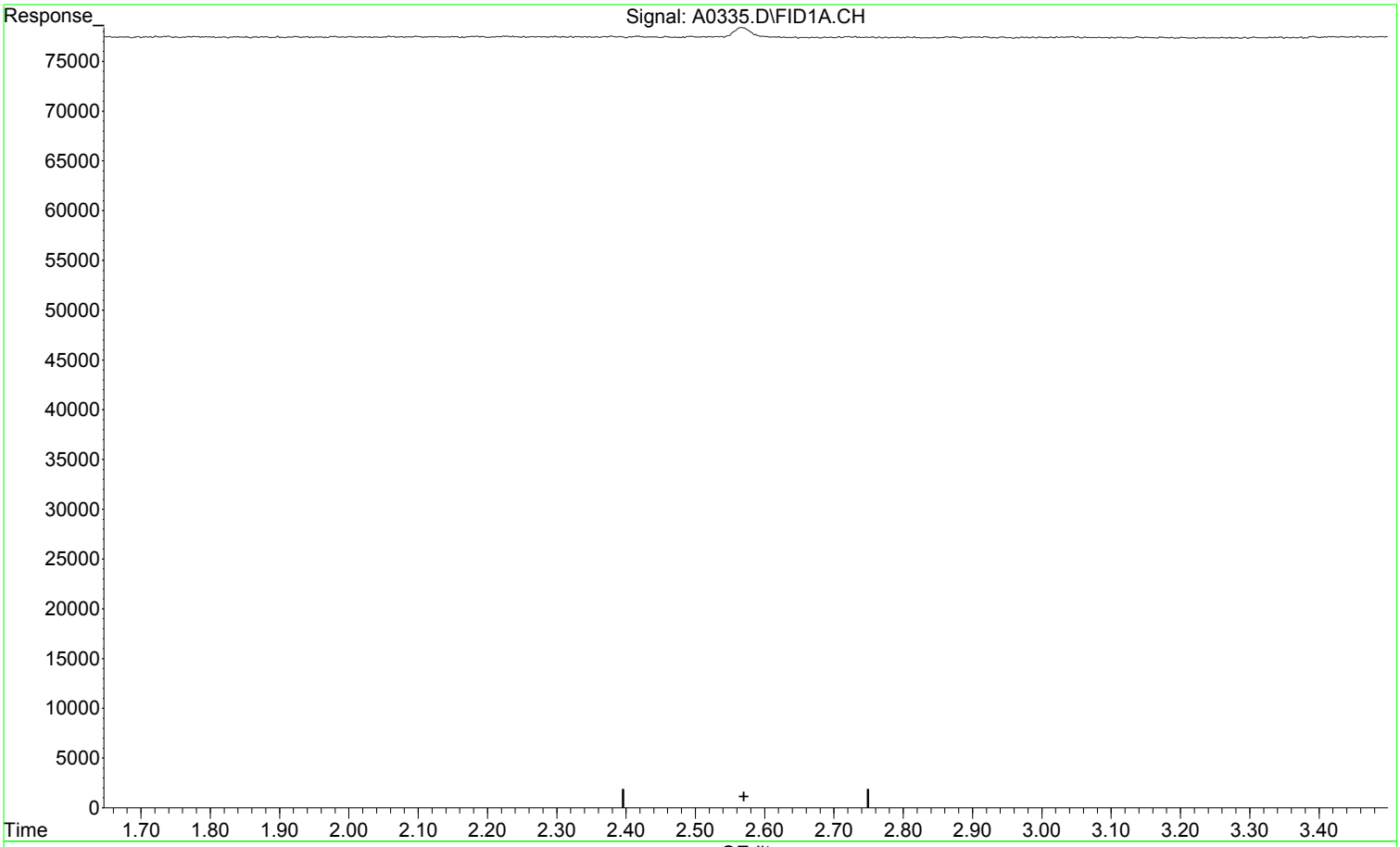
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0335.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 1:13 pm
Operator : F.NAEGLER
Sample : R2401280-022
Misc : CEC 979 T4
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 13:24:21 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.570min 0.000 ug/L
response 0

Manual Integration:
Before

02/23/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0335.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 1:13 pm
Operator : F.NAEGLER
Sample : R2401280-022
Misc : CEC 979 T4
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 13:24:21 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.465	4269693	76.151	ug/L	
2)	Acetylene	0.000	0	N.D.	ug/L	
3)	Ethylene	0.000	0	N.D.	ug/L	
4)	Ethane	2.566	17976	0.318	ug/L	m
5)	Propene	0.000	0	N.D.	ug/L	
6)	Propane	0.000	0	N.D.	ug/L	

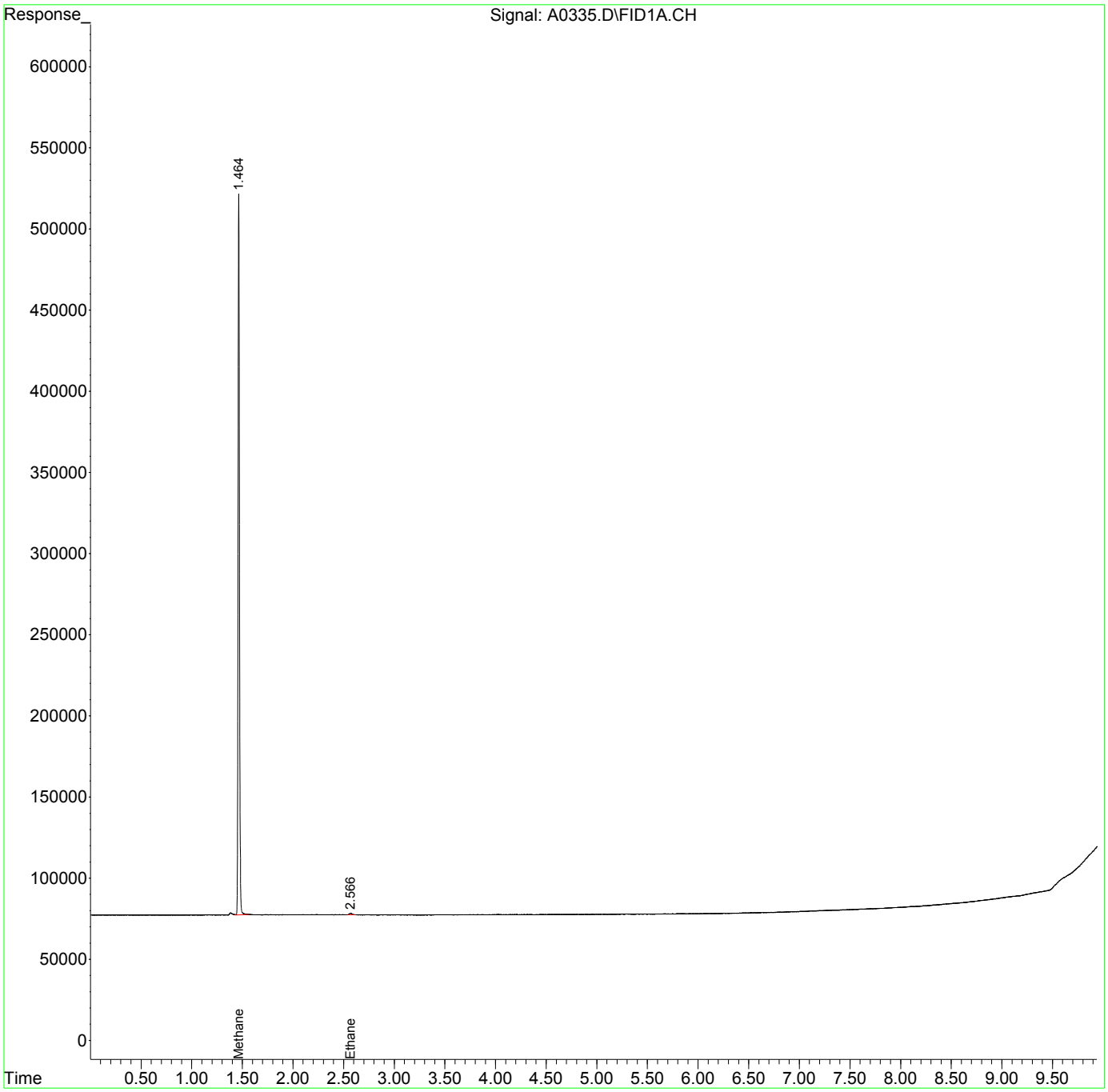
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0335.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 1:13 pm
Operator : F.NAEGLER
Sample : R2401280-022
Misc : CEC 979 T4
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 13:24:21 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



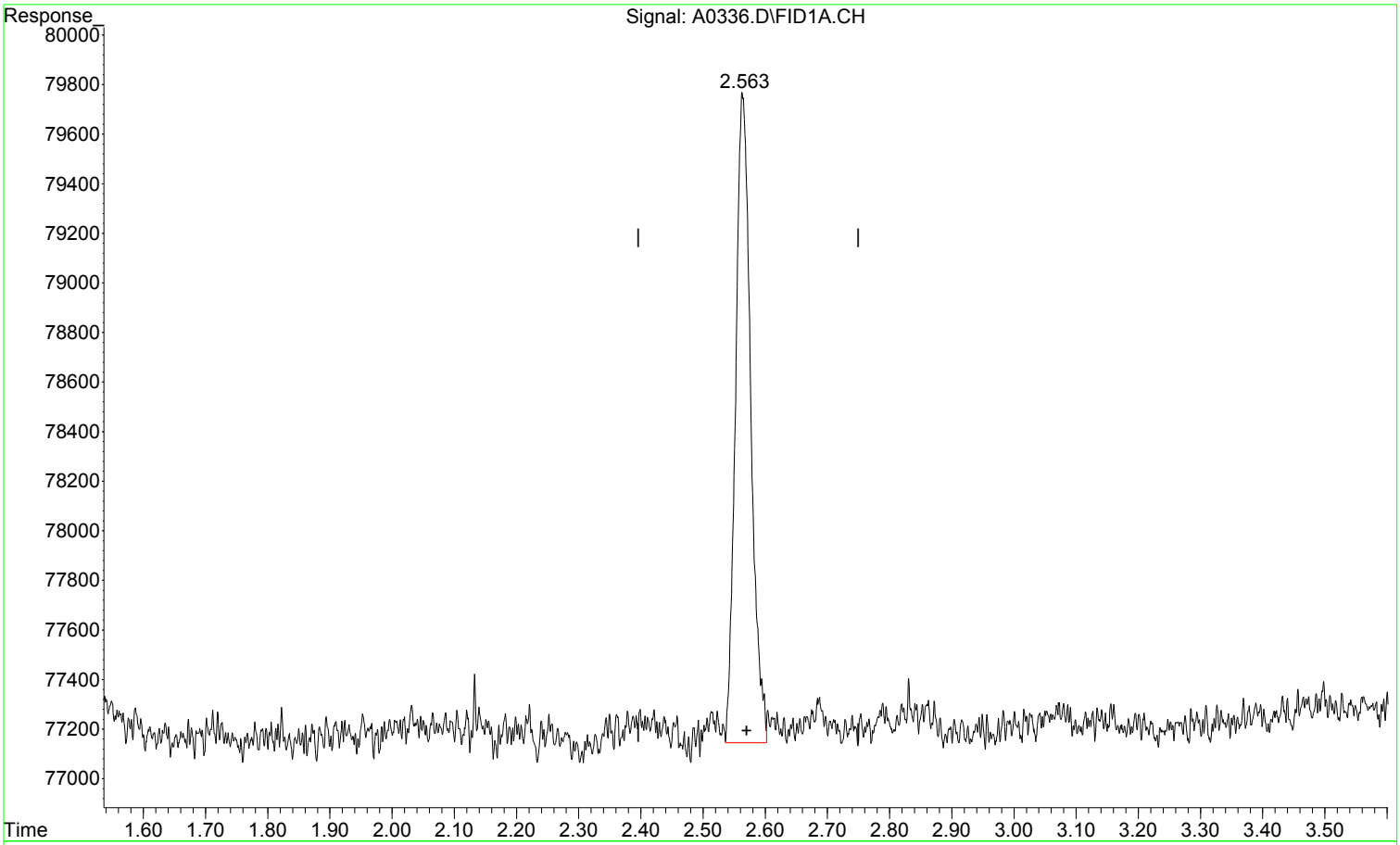
1st FN 02/23/24
2nd 02/23/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0336.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 1:37 pm
Operator : F.NAEGLER
Sample : R2401280-023
Misc : CEC 979 T4
ALS Vial : 13 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 13:48:32 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane

2.563min 0.788 ug/L m

response 44601

Manual Integration:

After

Peak not found.

02/23/24

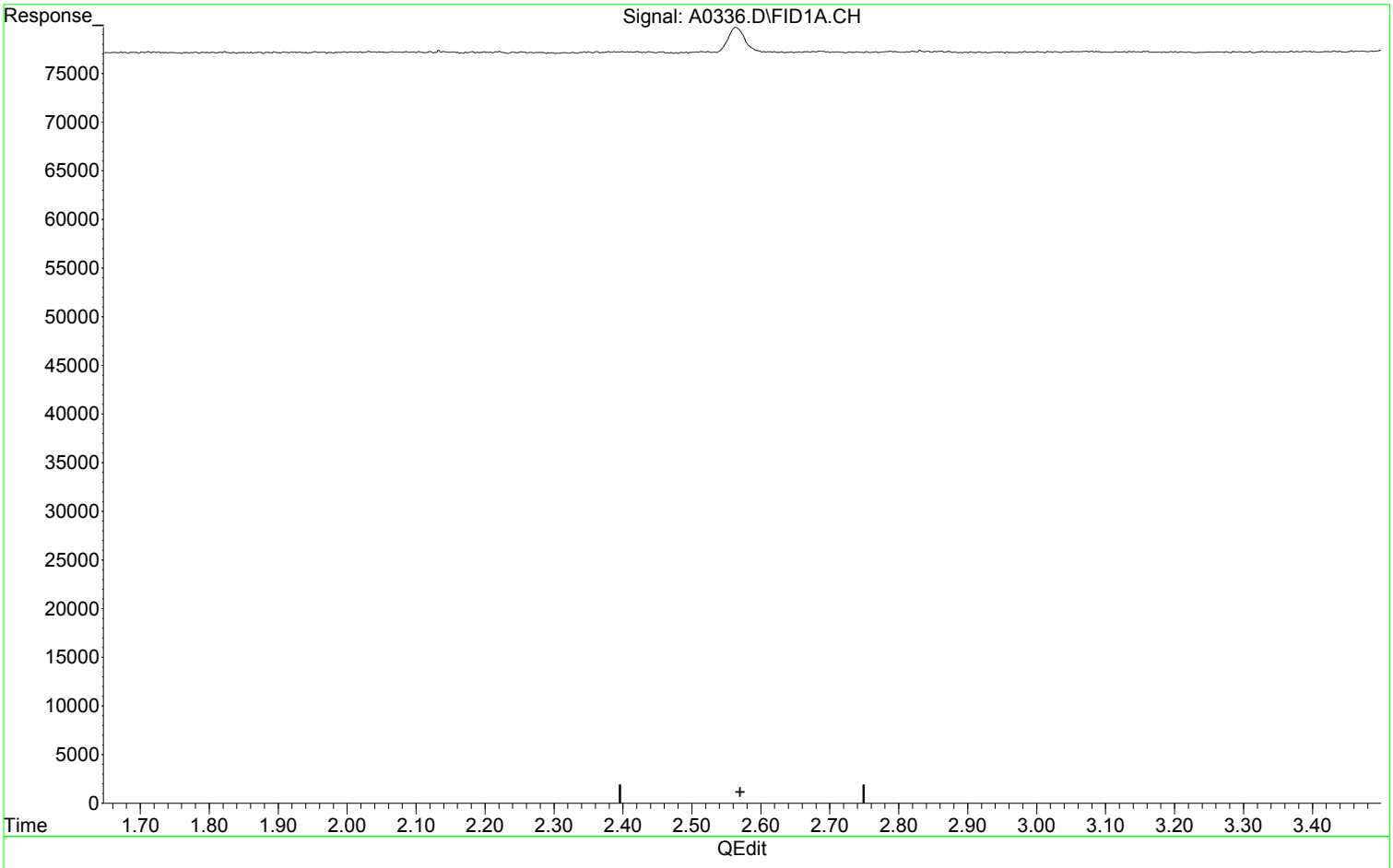
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0336.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 1:37 pm
Operator : F.NAEGLER
Sample : R2401280-023
Misc : CEC 979 T4
ALS Vial : 13 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 13:48:32 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.570min 0.000 ug/L
response 0

Manual Integration:
Before

02/23/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0336.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 1:37 pm
Operator : F.NAEGLER
Sample : R2401280-023
Misc : CEC 979 T4
ALS Vial : 13 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 13:48:32 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.465	659771	9.222	ug/L
2)	Acetylene	0.000	0	N.D.	ug/L
3)	Ethylene	0.000	0	N.D.	ug/L
4)	Ethane	2.563	44601	0.788	ug/L m
5)	Propene	0.000	0	N.D.	ug/L
6)	Propane	0.000	0	N.D.	ug/L

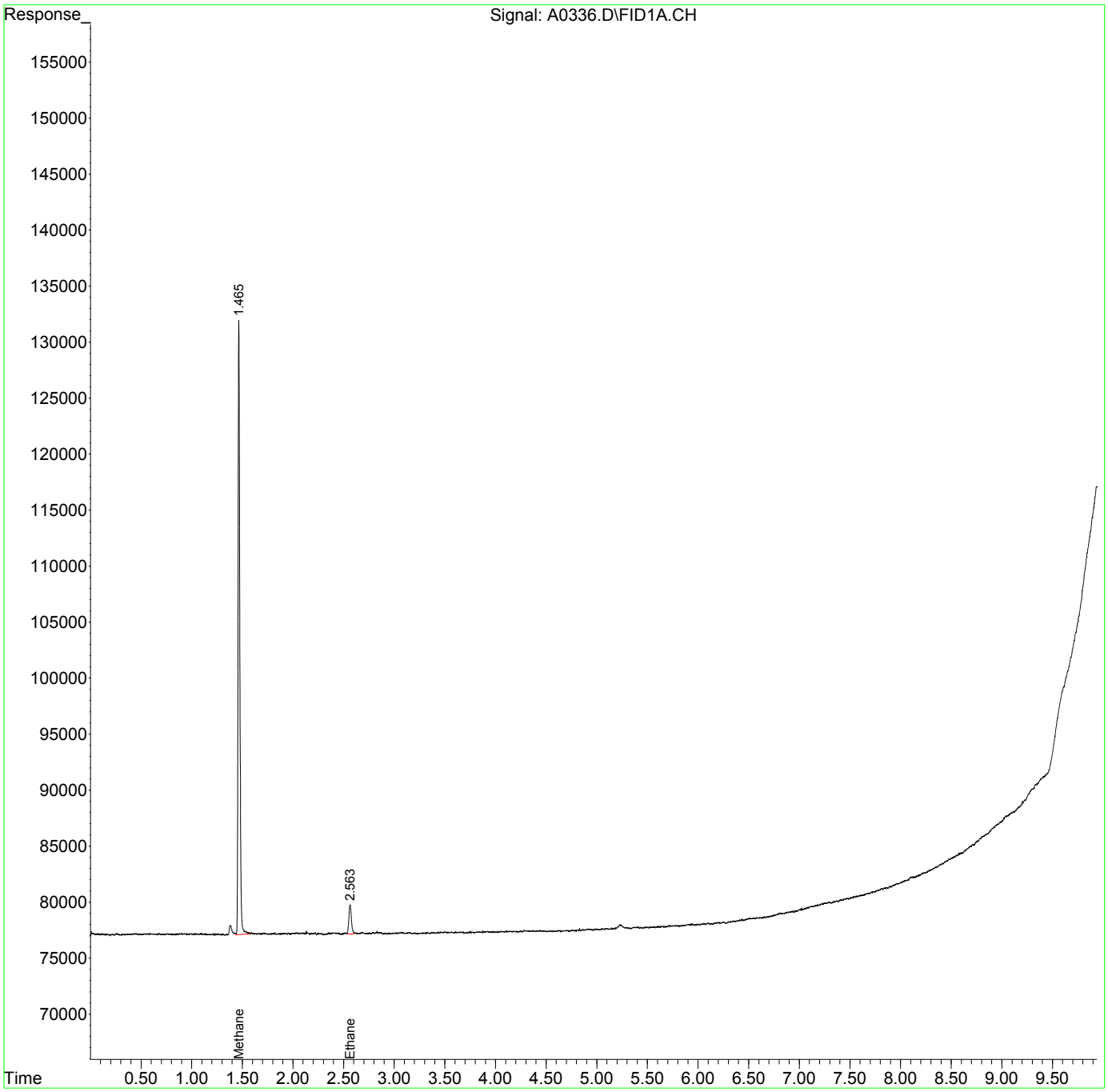
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0336.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 1:37 pm
Operator : F.NAEGLER
Sample : R2401280-023
Misc : CEC 979 T4
ALS Vial : 13 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 13:48:32 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



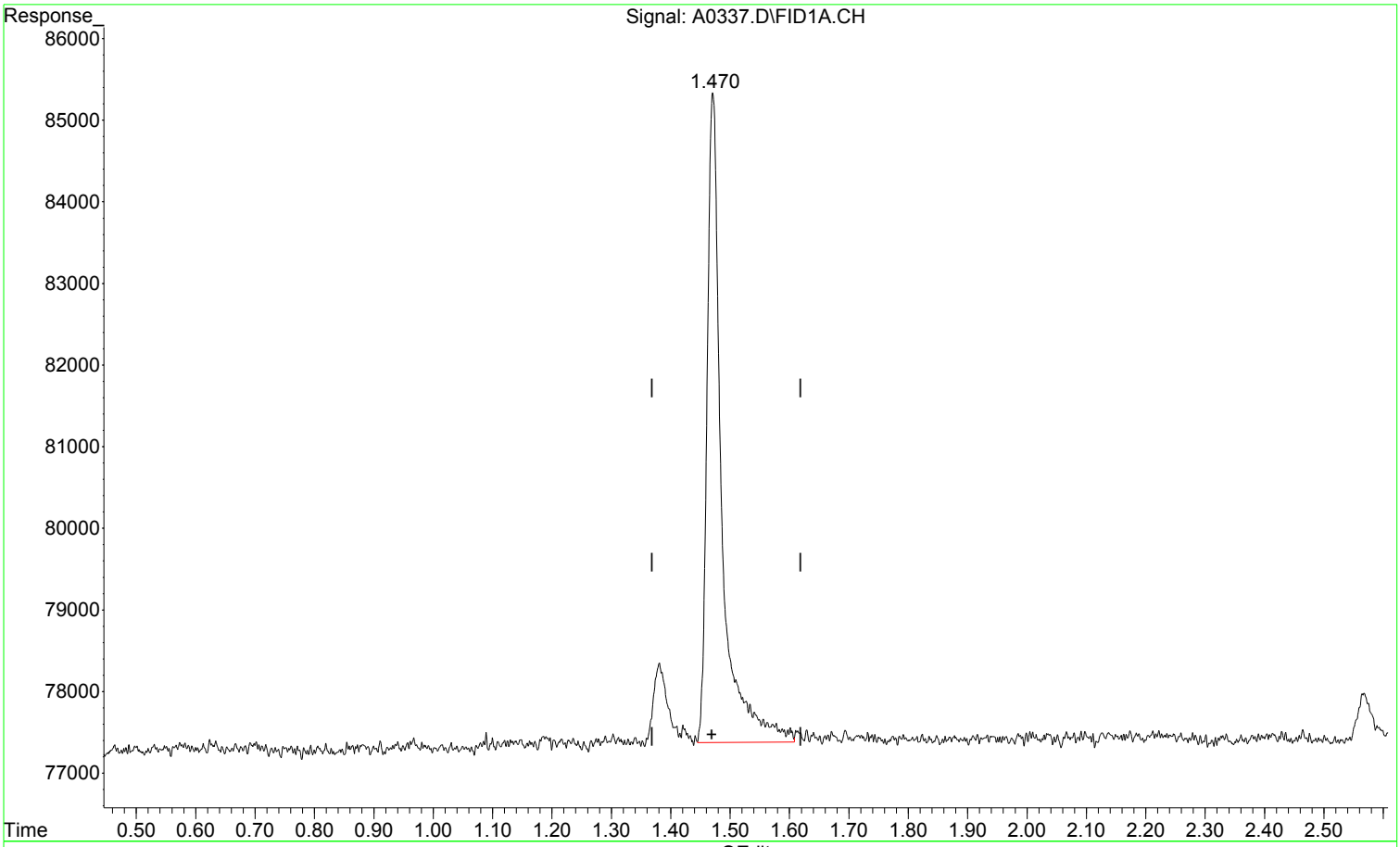
1st FN 02/23/24
2nd 02/23/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0337.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 1:50 pm
Operator : F.NAEGLER
Sample : R2401280-024
Misc : CEC 979 T4
ALS Vial : 14 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 14:03:40 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.470min -0.462 ug/L m

response 137448

Manual Integration:

After

Peak not found.

02/23/24

(+) = Expected Retention Time

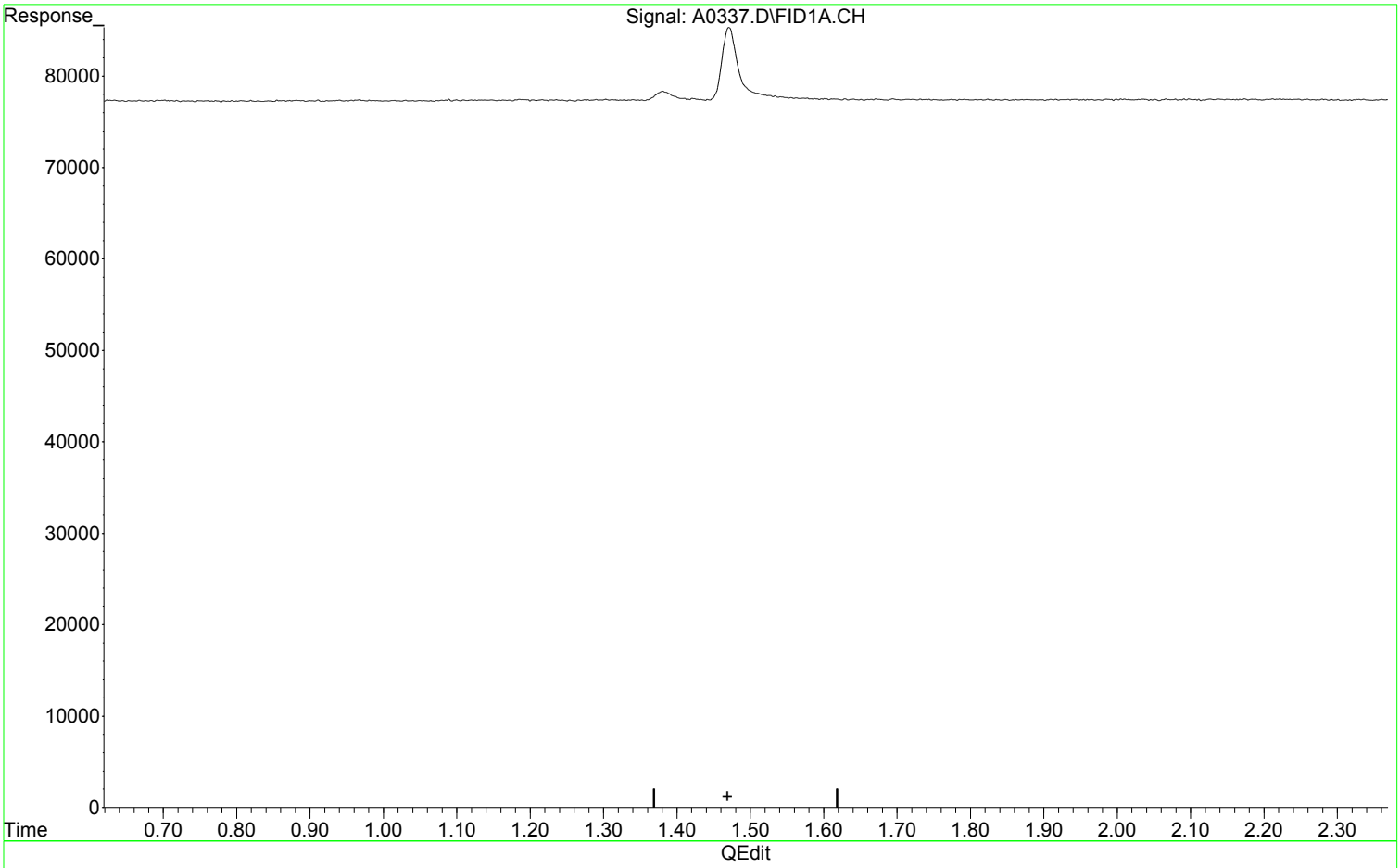
1st FN 02/23/24
2nd 02/23/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0337.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 1:50 pm
Operator : F.NAEGLER
Sample : R2401280-024
Misc : CEC 979 T4
ALS Vial : 14 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 14:03:40 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.469min 0.000 ug/L

response 0

Manual Integration:

Before

02/23/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0337.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 1:50 pm
Operator : F.NAEGLER
Sample : R2401280-024
Misc : CEC 979 T4
ALS Vial : 14 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 14:03:40 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.470	137448	N.D.	ug/L	m
2)	Acetylene	0.000	0	N.D.	ug/L	
3)	Ethylene	0.000	0	N.D.	ug/L	
4)	Ethane	0.000	0	N.D.	ug/L	
5)	Propene	0.000	0	N.D.	ug/L	
6)	Propane	0.000	0	N.D.	ug/L	

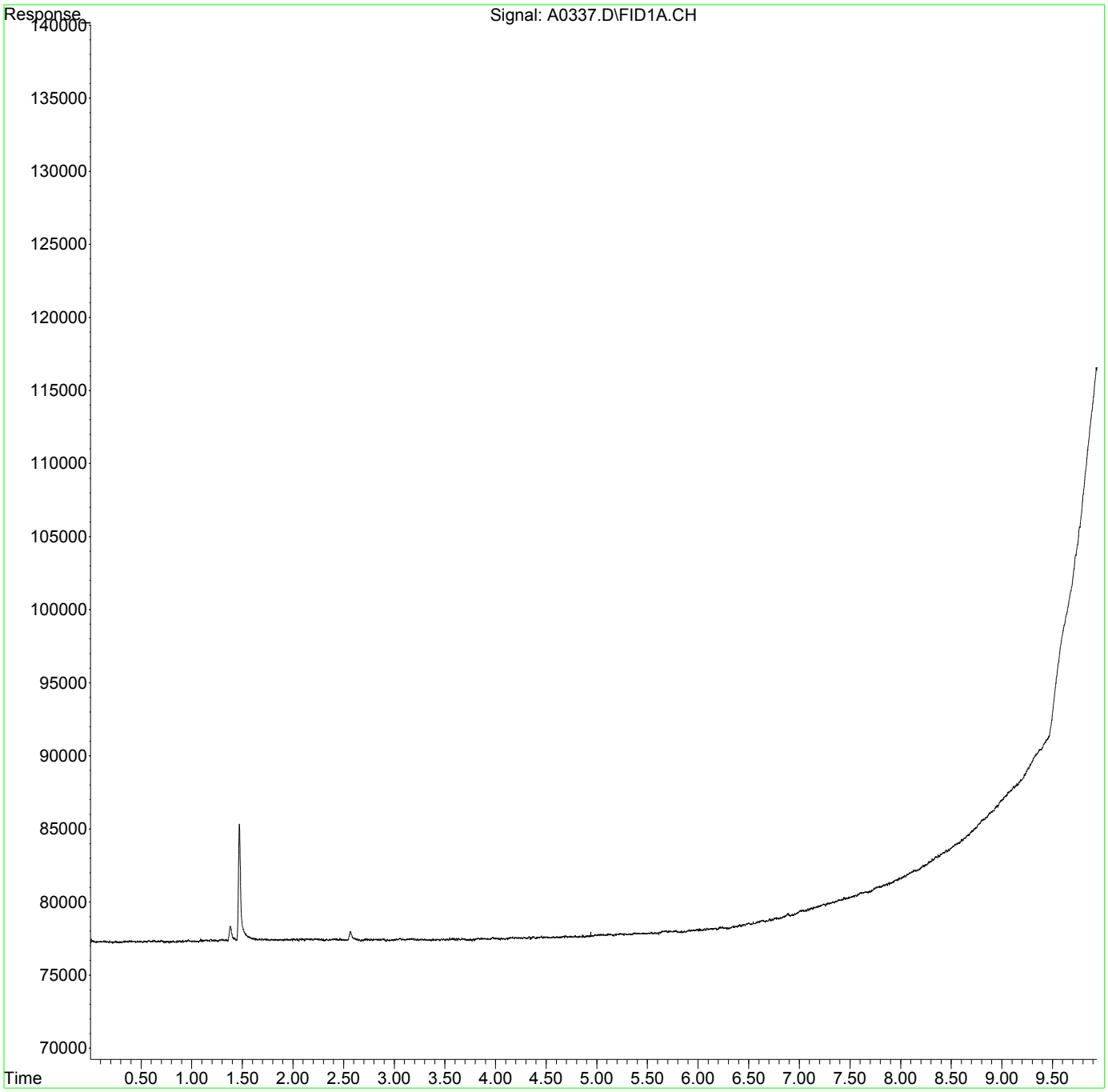
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0337.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 1:50 pm
Operator : F.NAEGLER
Sample : R2401280-024
Misc : CEC 979 T4
ALS Vial : 14 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 14:03:40 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

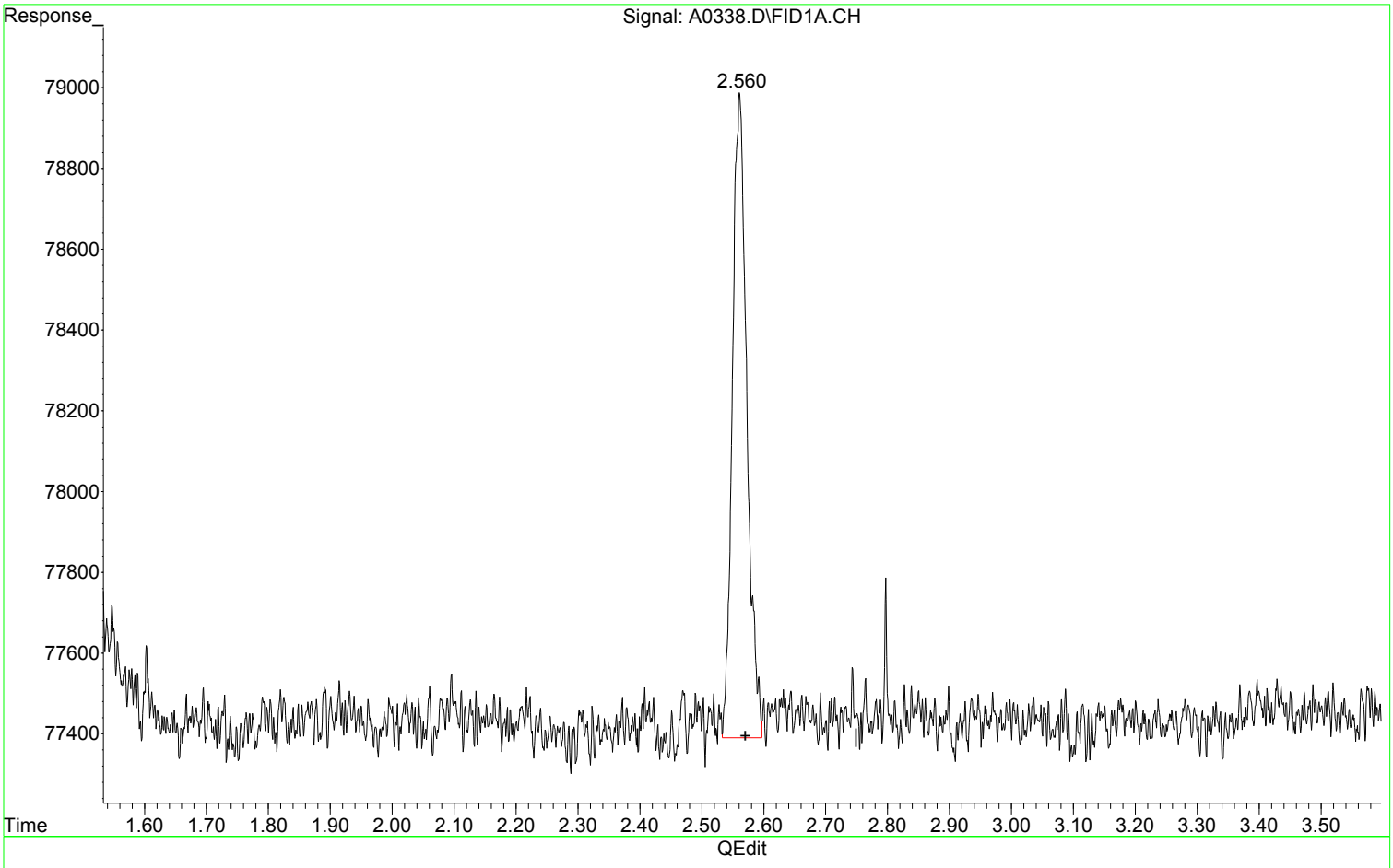


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0338.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 2:05 pm
Operator : F.NAEGLER
Sample : R2401280-025
Misc : CEC 979 T4
ALS Vial : 15 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 14:19:02 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.560min 0.456 ug/L m
response 25816

Manual Integration:
After
Peak not found.
02/23/24

(+) = Expected Retention Time

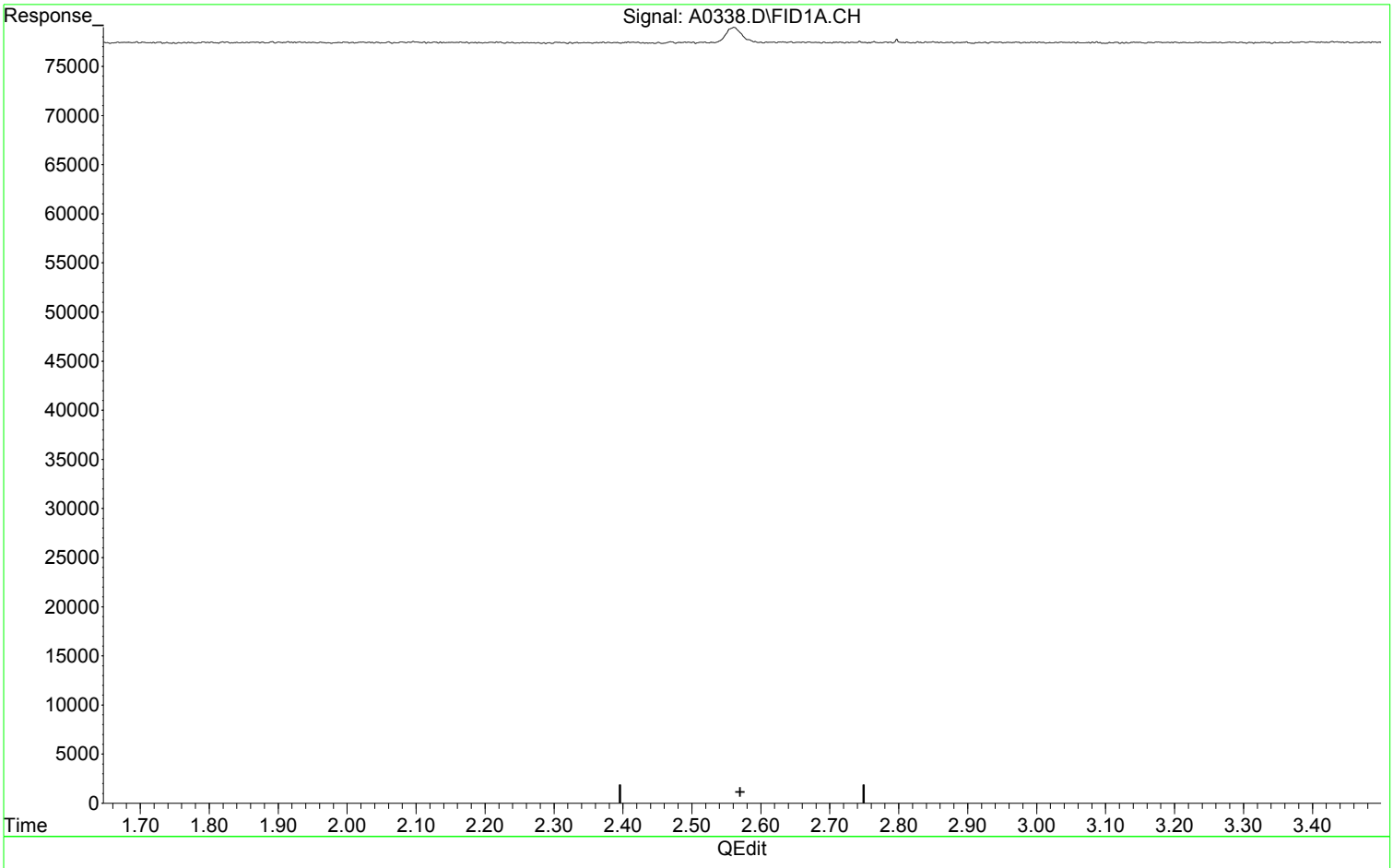
1st FN 02/23/24
2nd 02/23/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0338.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 2:05 pm
Operator : F.NAEGLER
Sample : R2401280-025
Misc : CEC 979 T4
ALS Vial : 15 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 14:19:02 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.570min 0.000 ug/L
response 0

Manual Integration:
Before

02/23/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0338.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 2:05 pm
Operator : F.NAEGLER
Sample : R2401280-025
Misc : CEC 979 T4
ALS Vial : 15 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 14:19:02 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.463	448289	5.301	ug/L
2)	Acetylene	0.000	0	N.D.	ug/L
3)	Ethylene	0.000	0	N.D.	ug/L
4)	Ethane	2.560	25816	0.456	ug/L m
5)	Propene	0.000	0	N.D.	ug/L
6)	Propane	0.000	0	N.D.	ug/L

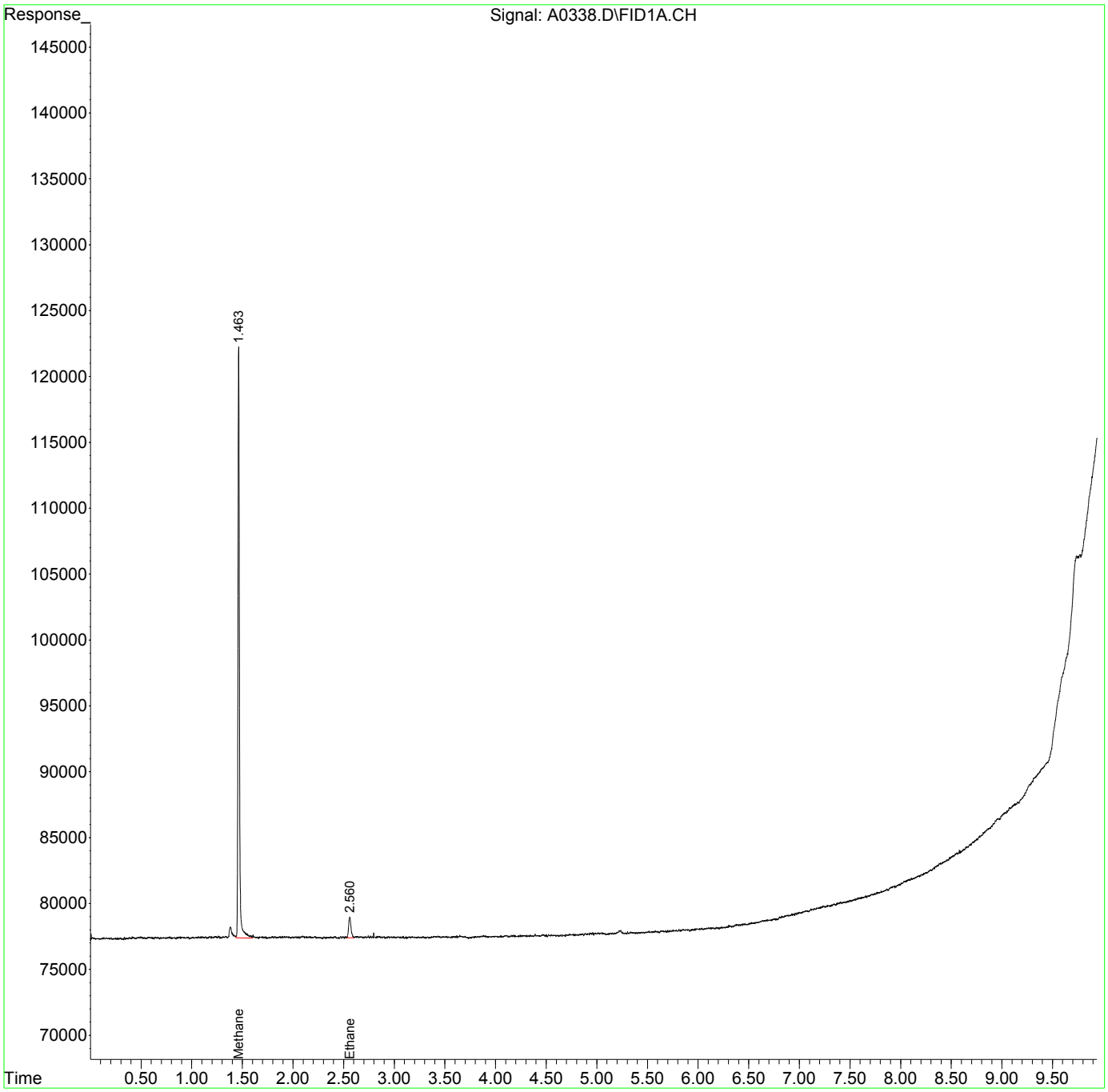
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0338.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 2:05 pm
Operator : F.NAEGLER
Sample : R2401280-025
Misc : CEC 979 T4
ALS Vial : 15 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 14:19:02 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



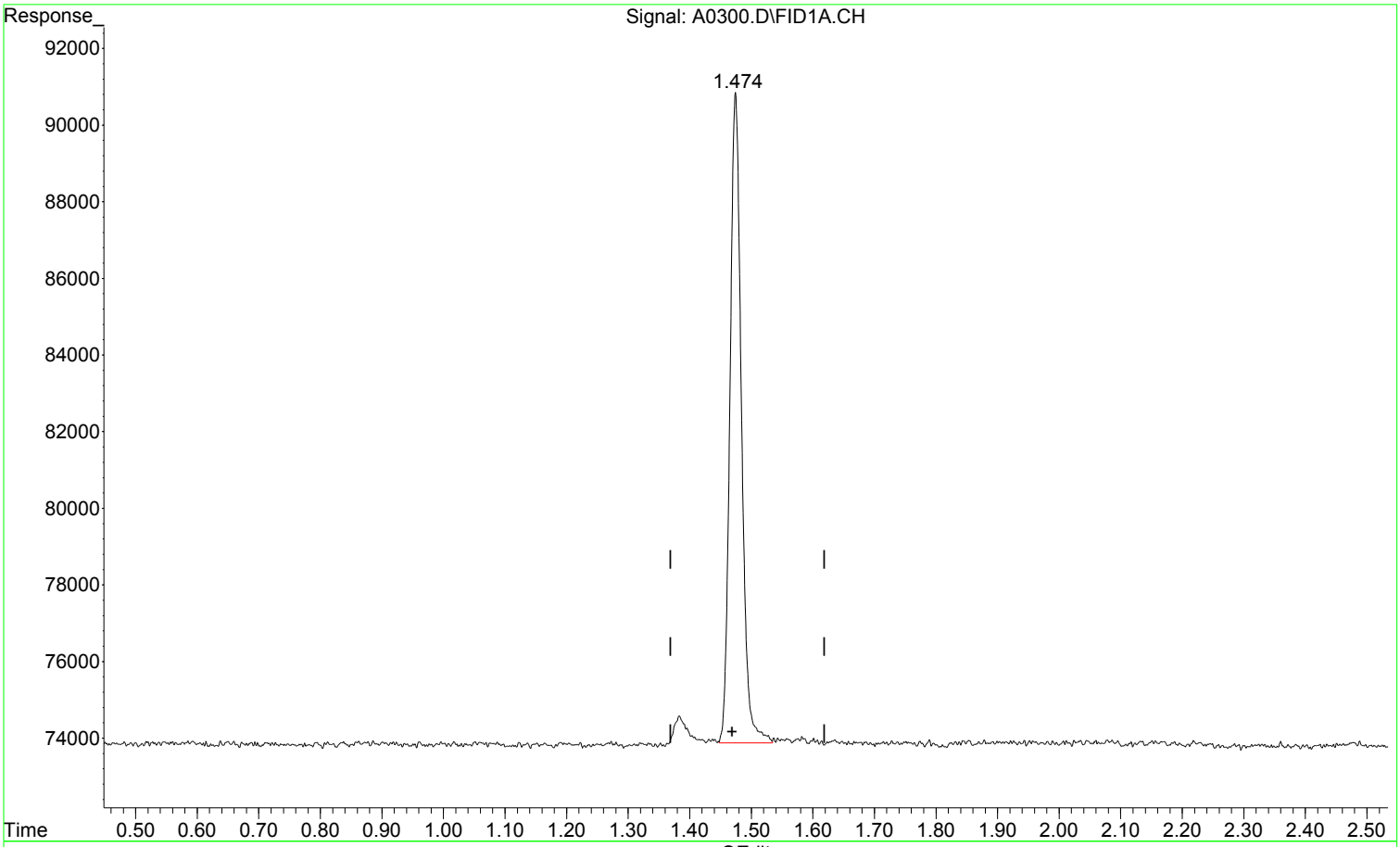
1st FN 02/16/24
2nd 02/19/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0300.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 10:19 am
Operator : F.NAEGLER
Sample : MBLK
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 10:34:26 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.474min 1.070 ug/L m

response 220089

Manual Integration:

After

Peak not found.

02/16/24

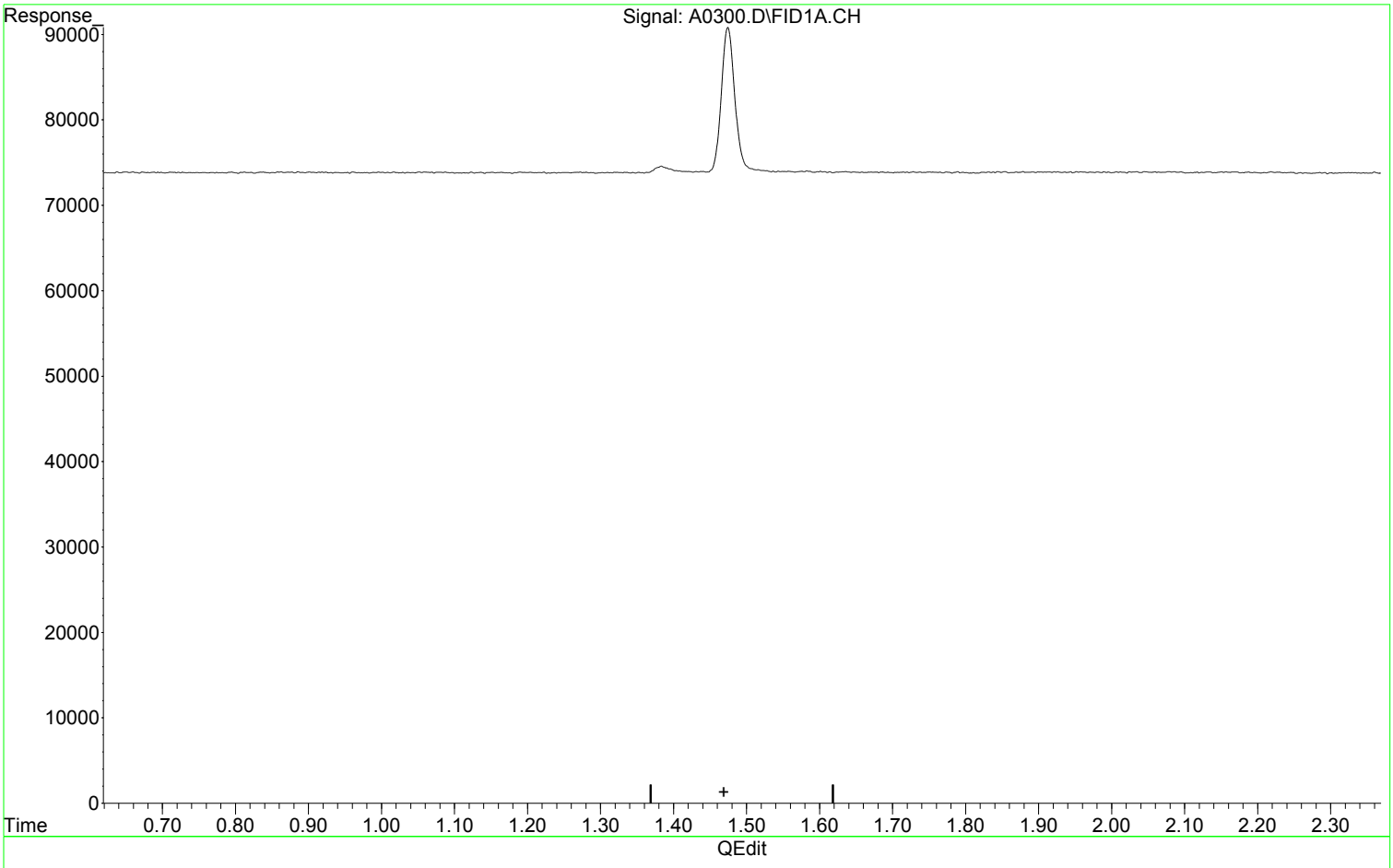
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0300.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 10:19 am
Operator : F.NAEGLER
Sample : MBLK
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 10:34:26 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.469min 0.000 ug/L

response 0

Manual Integration:

Before

02/16/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0300.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 10:19 am
Operator : F.NAEGLER
Sample : MBLK
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 10:34:26 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.474	220089	1.070	ug/L	m
2)	Acetylene	0.000	0	N.D.	ug/L	
3)	Ethylene	0.000	0	N.D.	ug/L	
4)	Ethane	0.000	0	N.D.	ug/L	
5)	Propene	0.000	0	N.D.	ug/L	
6)	Propane	0.000	0	N.D.	ug/L	

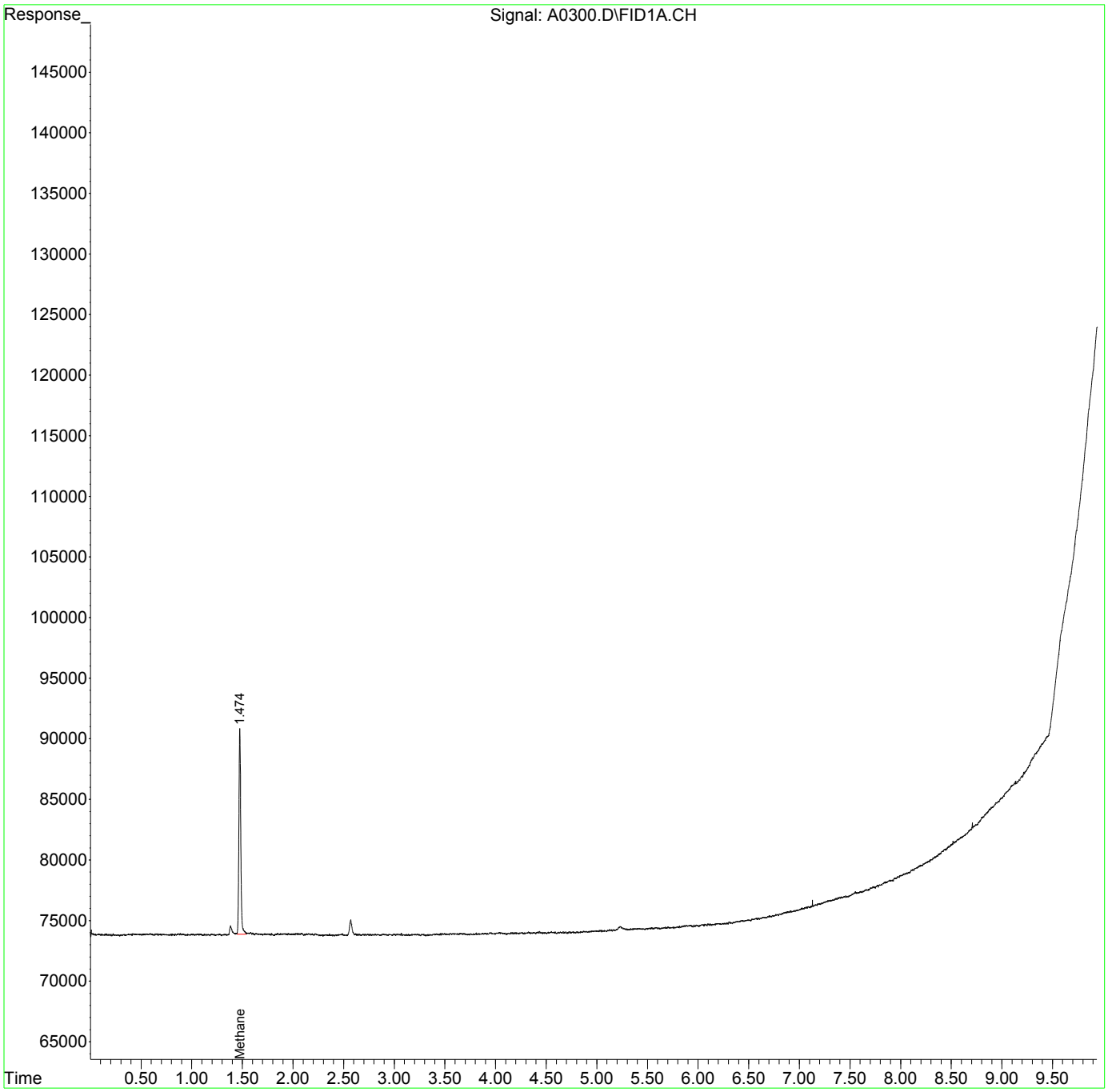
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0300.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 10:19 am
Operator : F.NAEGLER
Sample : MBLK
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 10:34:26 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

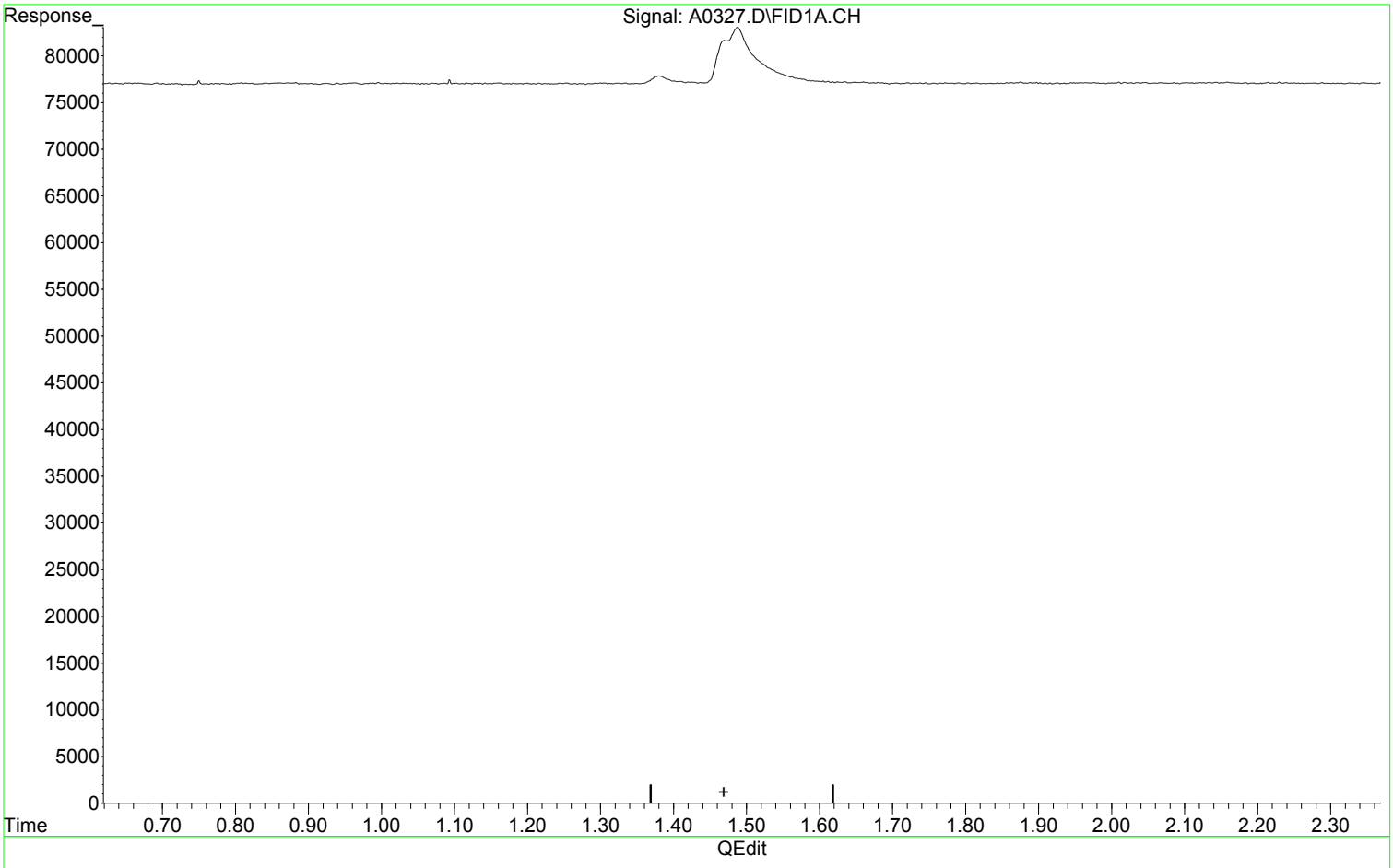


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0327.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 10:57 am
Operator : F.NAEGLER
Sample : MBLK
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 11:08:33 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.469min 0.000 ug/L

response 0

Manual Integration:

Before

02/23/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0327.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 10:57 am
Operator : F.NAEGLER
Sample : MBLK
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 11:08:33 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.487	206225	0.813	ug/L	m
2)	Acetylene	0.000	0	N.D.	ug/L	
3)	Ethylene	0.000	0	N.D.	ug/L	
4)	Ethane	0.000	0	N.D.	ug/L	
5)	Propene	0.000	0	N.D.	ug/L	
6)	Propane	0.000	0	N.D.	ug/L	

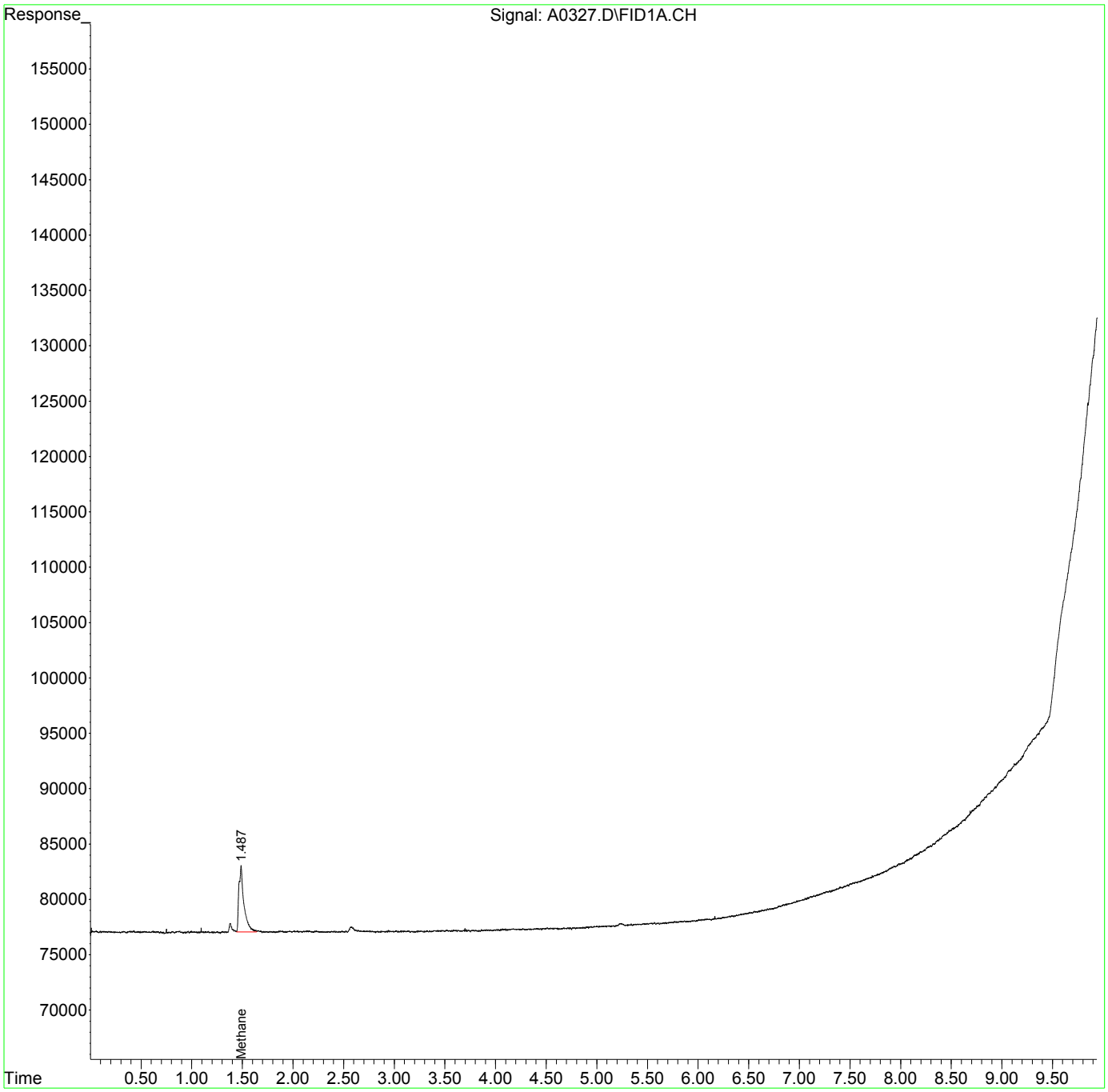
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0327.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 10:57 am
Operator : F.NAEGLER
Sample : MBLK
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 11:08:33 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0301.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 10:36 am
Operator : F.NAEGLER
Sample : LCS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 10:54:16 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.464	7740372	140.498	ug/L
2)	Acetylene	2.219	6256131	255.972	ug/L
3)	Ethylene	2.413	5333364	129.076	ug/L
4)	Ethane	2.561	7578859	133.969	ug/L
5)	Propene	0.000	0	N.D.	ug/L
6)	Propane	5.228	7996397	129.396	ug/L

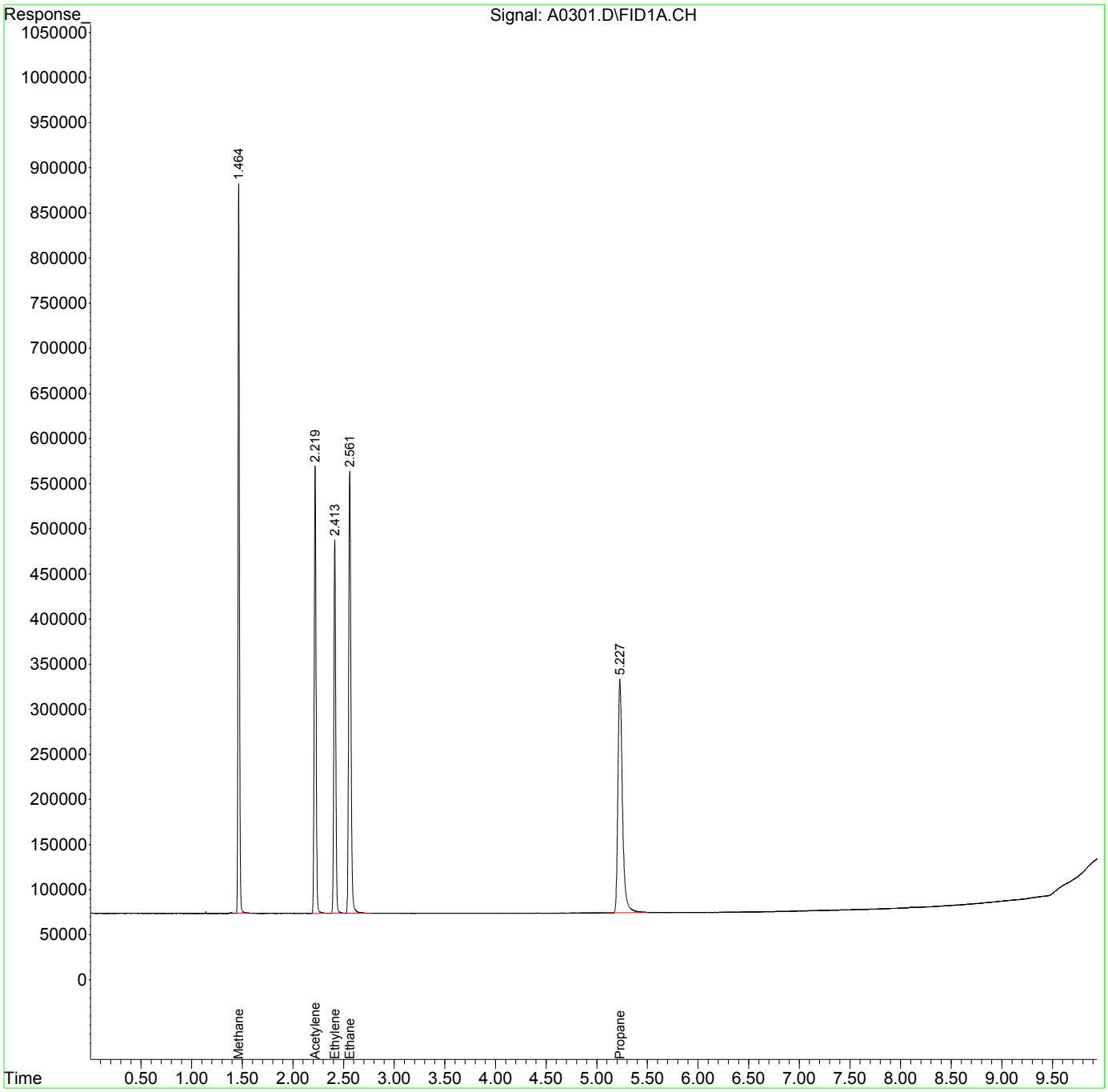
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0301.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 10:36 am
Operator : F.NAEGLER
Sample : LCS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 10:54:16 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0328.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 11:11 am
Operator : F.NAEGLER
Sample : LCS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 11:23:24 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.464	8170802	148.478	ug/L
2)	Acetylene	2.219	6694624	273.914	ug/L
3)	Ethylene	2.413	5721205	138.463	ug/L
4)	Ethane	2.561	8078630	142.803	ug/L
5)	Propene	0.000	0	N.D.	ug/L
6)	Propane	5.228	8548017	138.323	ug/L

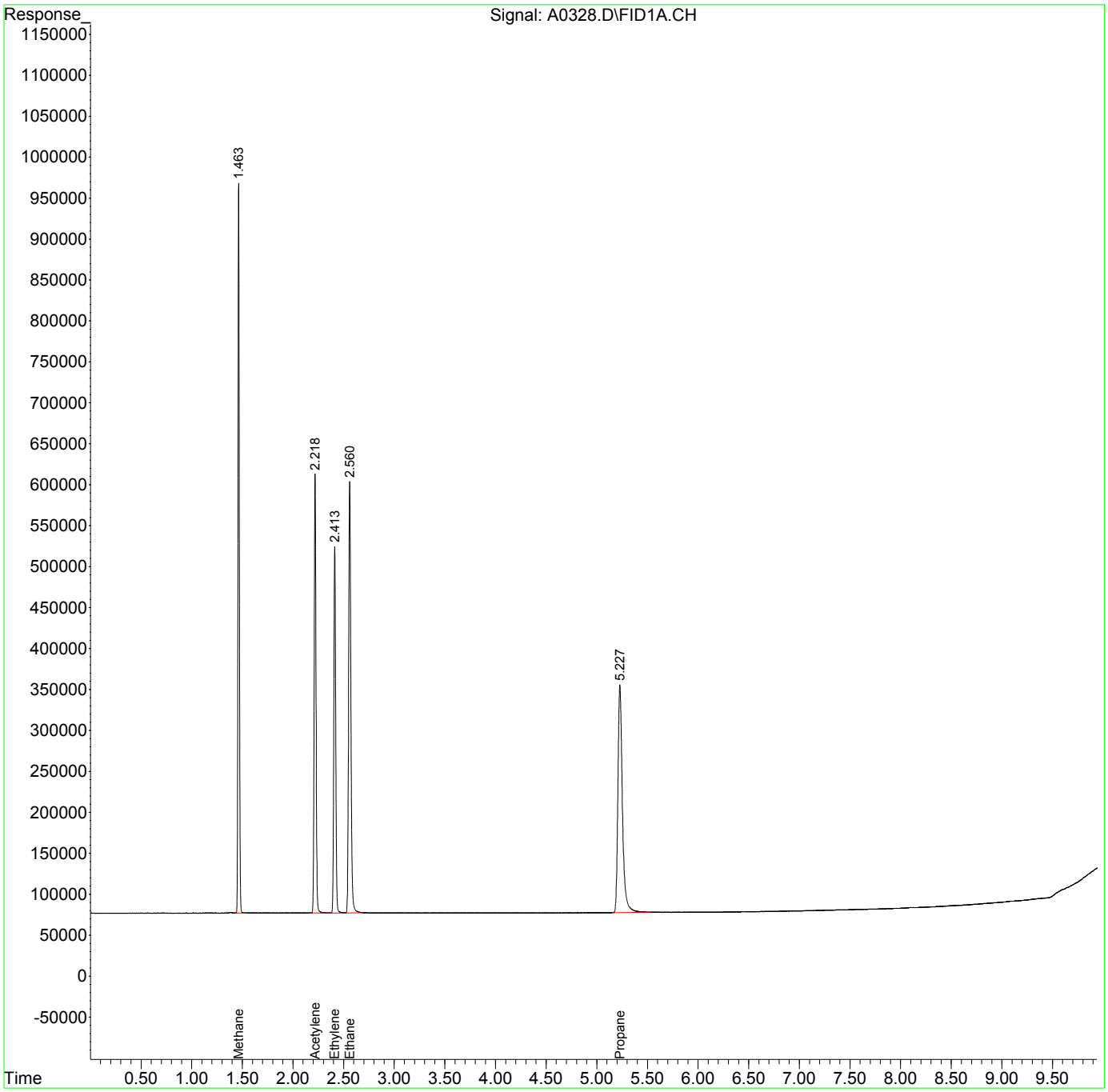
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0328.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 11:11 am
Operator : F.NAEGLER
Sample : LCS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 11:23:24 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0302.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 10:59 am
Operator : F.NAEGLER
Sample : LCSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 11:14:59 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.462	7481501	135.698	ug/L
2)	Acetylene	2.217	6187008	253.144	ug/L
3)	Ethylene	2.411	5296987	128.196	ug/L
4)	Ethane	2.559	7477418	132.175	ug/L
5)	Propene	0.000	0	N.D.	ug/L
6)	Propane	5.228	7911439	128.022	ug/L

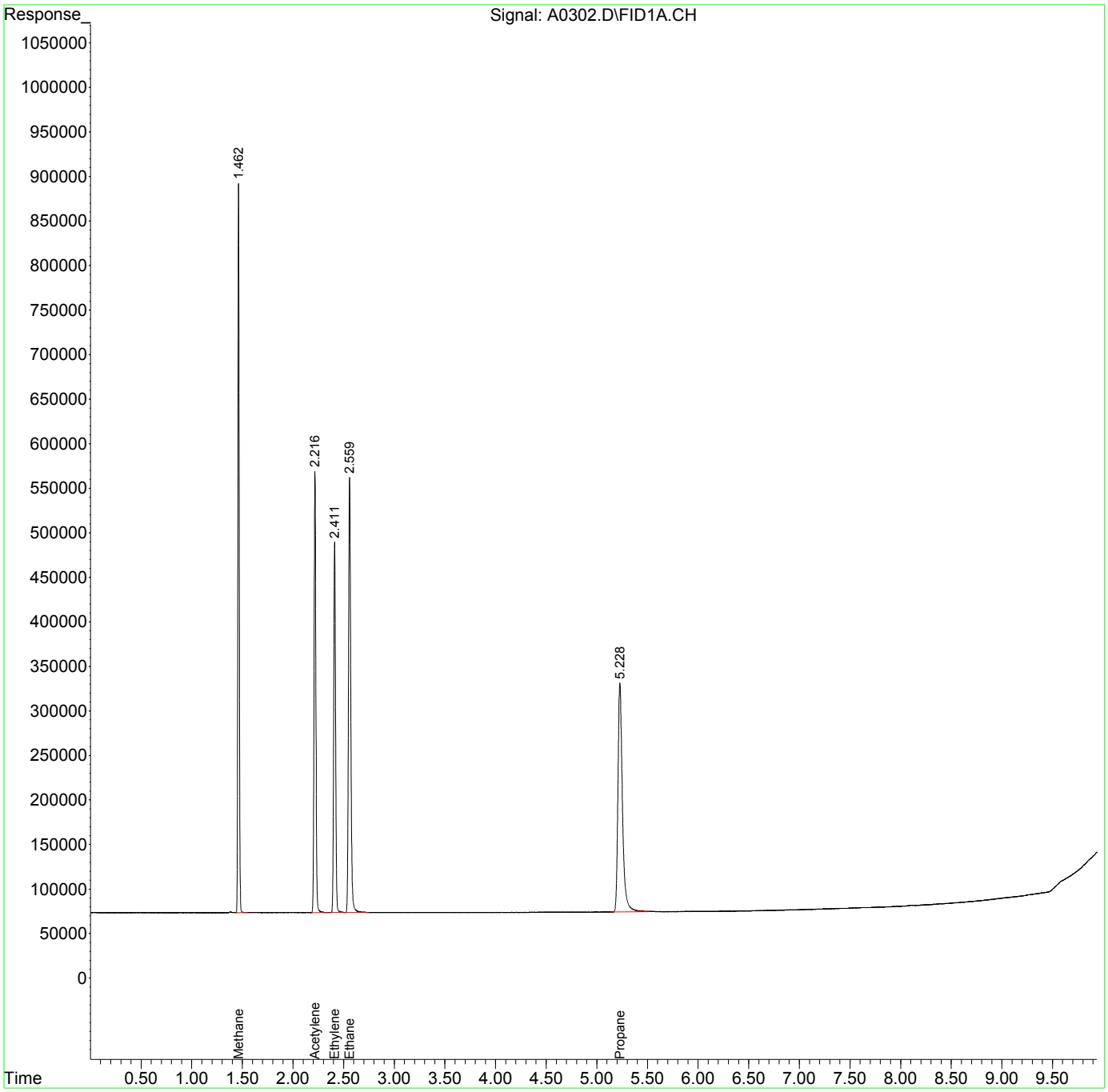
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0302.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 10:59 am
Operator : F.NAEGLER
Sample : LCSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 11:14:59 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0331.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 11:56 am
Operator : F.NAEGLER
Sample : R2401280-018MS|50.0
Misc : CEC 979 T4
ALS Vial : 8 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 12:06:46 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.465	20702393	380.816	ug/L
2)	Acetylene	2.220	4898135	200.409	ug/L
3)	Ethylene	2.414	4111390	99.503	ug/L
4)	Ethane	2.562	5960427	105.360	ug/L
5)	Propene	0.000	0	N.D.	ug/L
6)	Propane	5.228	6267882	101.426	ug/L

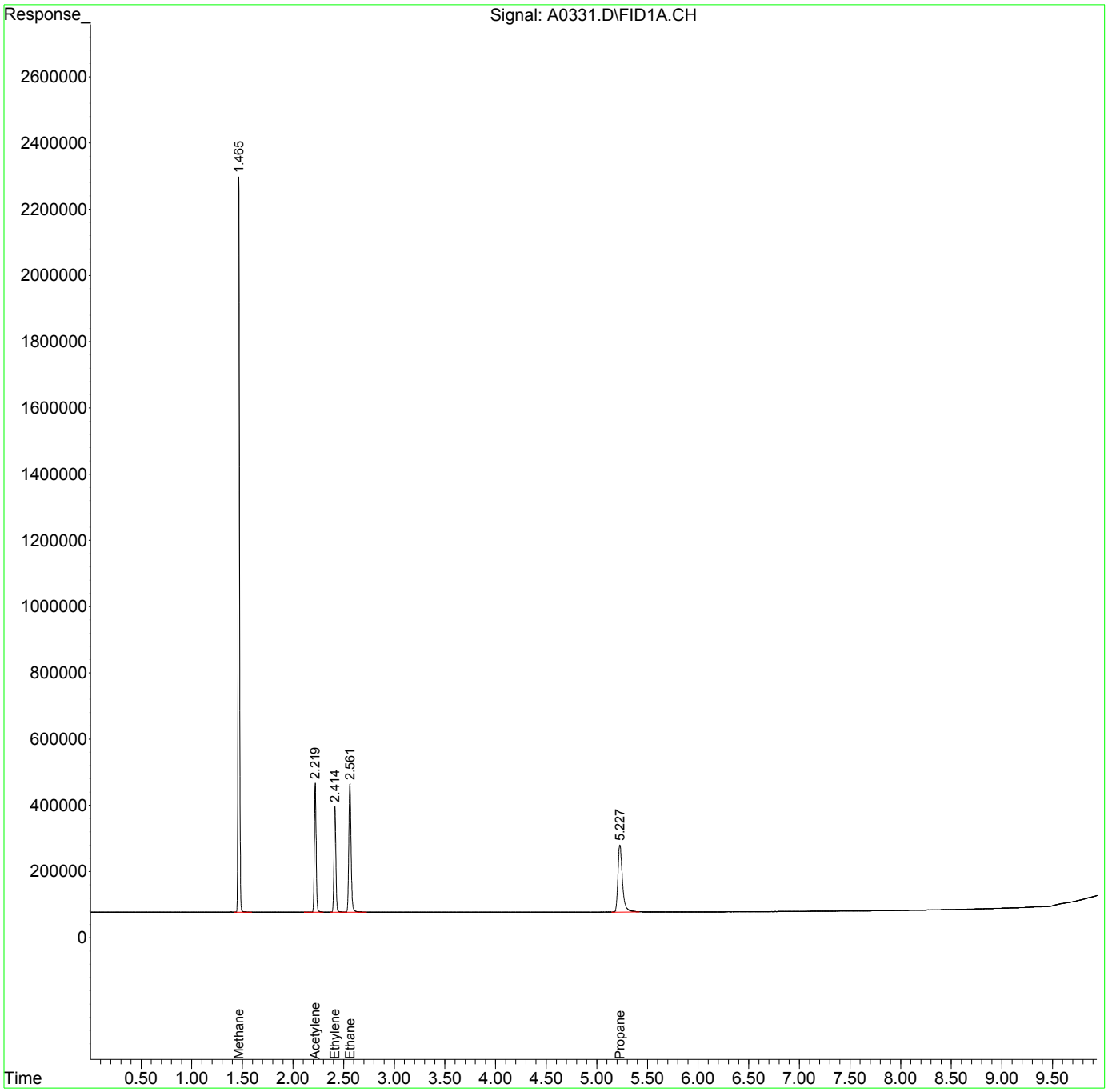
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0331.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 11:56 am
Operator : F.NAEGLER
Sample : R2401280-018MS|50.0
Misc : CEC 979 T4
ALS Vial : 8 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 12:06:46 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0332.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 12:10 pm
Operator : F.NAEGLER
Sample : R2401280-018DMS|50.0
Misc : CEC 979 T4
ALS Vial : 9 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 12:44:16 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.464	20980780	385.977	ug/L
2)	Acetylene	2.219	4935816	201.951	ug/L
3)	Ethylene	2.414	4157733	100.624	ug/L
4)	Ethane	2.561	6025635	106.513	ug/L
5)	Propene	0.000	0	N.D.	ug/L
6)	Propane	5.227	6363819	102.978	ug/L

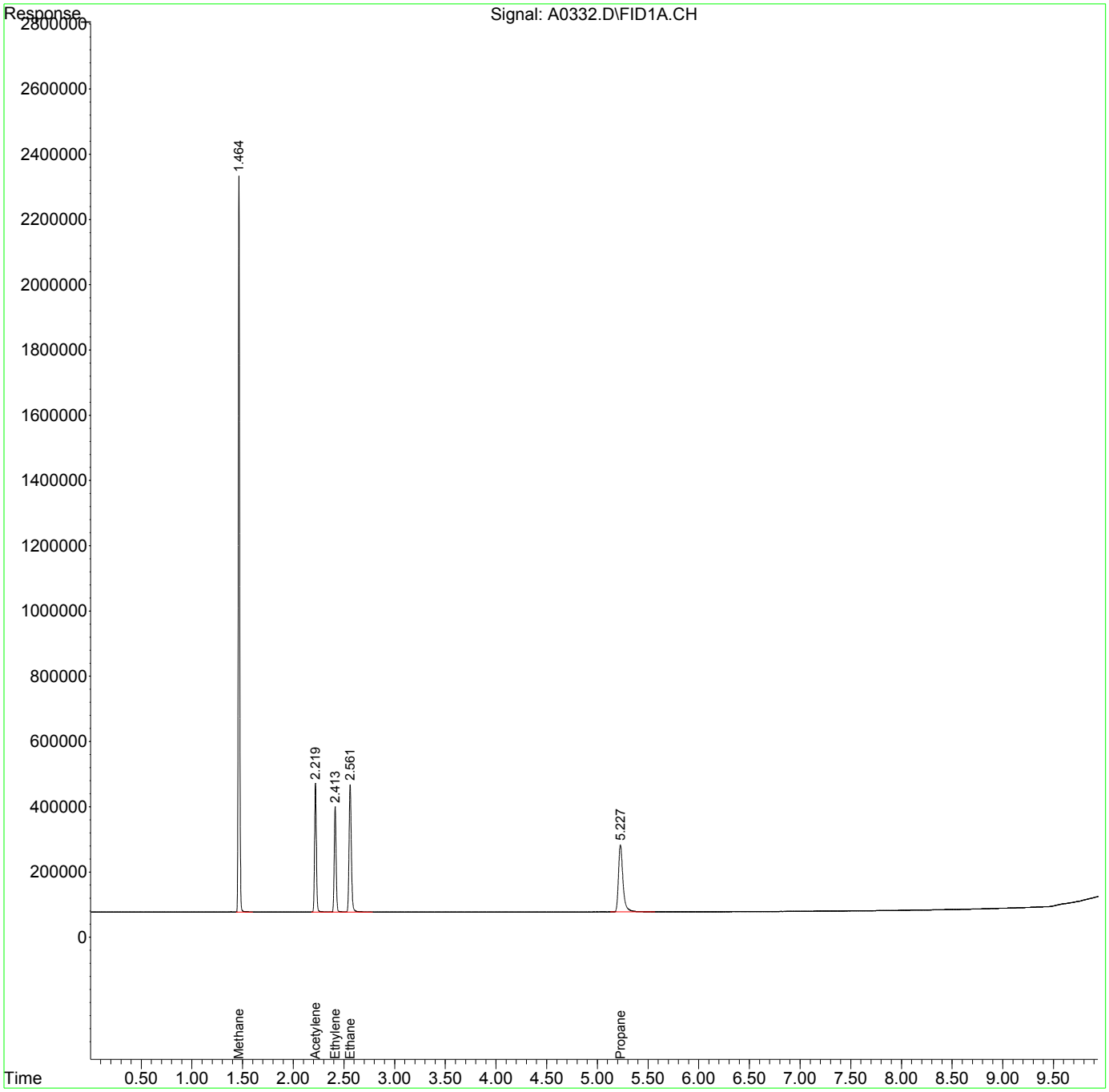
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0332.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 12:10 pm
Operator : F.NAEGLER
Sample : R2401280-018DMS|50.0
Misc : CEC 979 T4
ALS Vial : 9 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 12:44:16 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0299.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 10:04 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 10:17:38 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Methane	262.300	249.283	5.0	98	0.00
2	Acetylene	500.600	443.551	11.4	94	0.00
3	Ethylene	242.800	213.896	11.9	90	0.00
4	Ethane	260.300	234.214	10.0	96	0.00
6	Propane	254.500	229.538	9.8	95	-0.01

Evaluate Continuing Calibration Report - Not Founds

5	Propene	250.000	0.000	100.0#	0	-4.26#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0299.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 10:04 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 10:17:38 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.466	13607908	249.283	ug/L
2)	Acetylene	2.221	10840676	443.551	ug/L
3)	Ethylene	2.416	8838049	213.896	ug/L
4)	Ethane	2.563	13249940	234.214	ug/L
5)	Propene	0.000	0	N.D.	ug/L
6)	Propane	5.229	14184924	229.538	ug/L

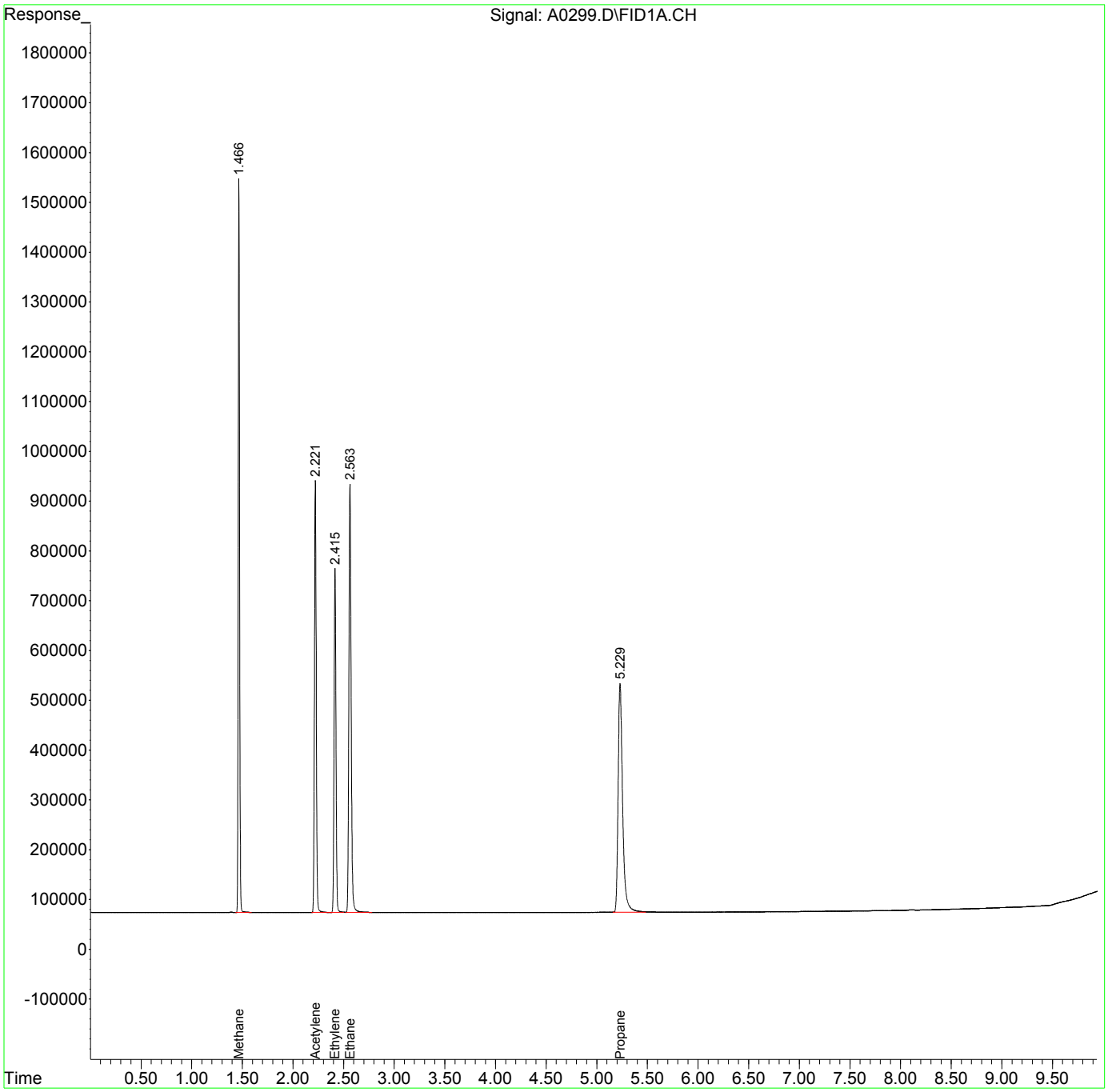
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0299.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 10:04 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 10:17:38 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0313.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 2:23 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 14:33:57 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Methane	262.300	258.662	1.4	101	0.00
2	Acetylene	500.600	462.706	7.6	98	-0.01
3	Ethylene	242.800	227.291	6.4	96	-0.01
4	Ethane	260.300	243.560	6.4	99	-0.01
6	Propane	254.500	239.297	6.0	99	-0.02

Evaluate Continuing Calibration Report - Not Founds

5	Propene	250.000	0.000	100.0#	0	-4.26#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0313.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 2:23 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 14:33:57 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.462	14113787	258.662	ug/L
2)	Acetylene	2.216	11308846	462.706	ug/L
3)	Ethylene	2.411	9391535	227.291	ug/L
4)	Ethane	2.558	13778638	243.560	ug/L
5)	Propene	0.000	0	N.D.	ug/L
6)	Propane	5.225	14787997	239.297	ug/L

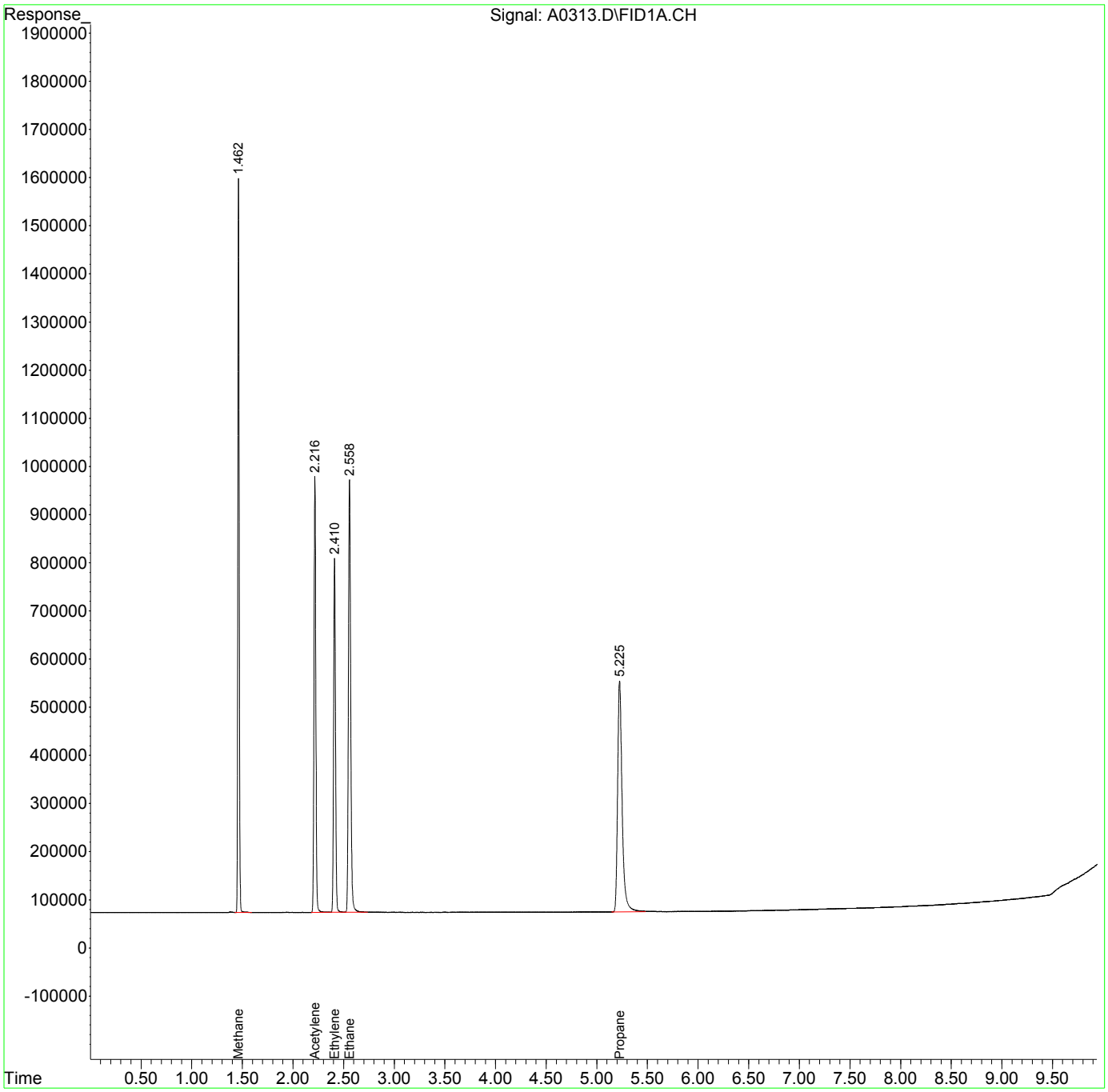
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0313.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 2:23 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 14:33:57 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



1st FJ 02/16/24
2nd 02/19/24

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0323.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 4:42 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 16:54:41 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Methane	262.300	247.013	5.8	97	0.00
2	Acetylene	500.600	439.380	12.2	93	-0.01
3	Ethylene	242.800	218.520	10.0	92	-0.01
4	Ethane	260.300	230.941	11.3	94	-0.01
6	Propane	254.500	226.899	10.8	94	-0.02

Evaluate Continuing Calibration Report - Not Founds

5	Propene	250.000	0.000	100.0#	0	-4.26#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0323.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 4:42 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 16:54:41 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.461	13485486	247.013	ug/L
2)	Acetylene	2.216	10738722	439.380	ug/L
3)	Ethylene	2.410	9029111	218.520	ug/L
4)	Ethane	2.558	13064796	230.941	ug/L
5)	Propene	0.000	0	N.D.	ug/L
6)	Propane	5.224	14021843	226.899	ug/L

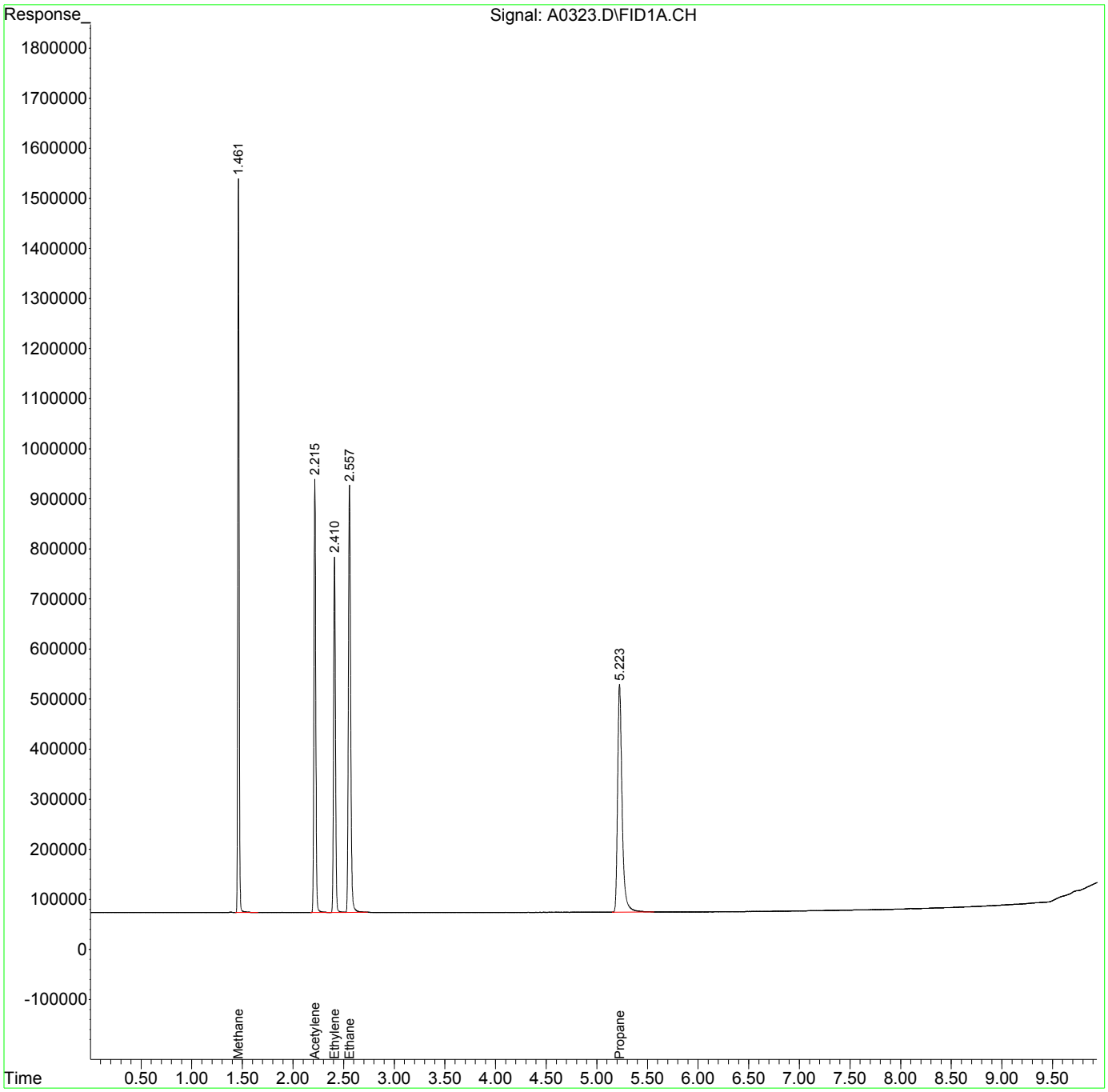
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0323.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 4:42 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 16:54:41 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0326.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 10:37 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 10:56:02 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Methane	262.300	268.828	-2.5	105	0.00
2	Acetylene	500.600	481.757	3.8	102	0.00
3	Ethylene	242.800	234.276	3.5	99	0.00
4	Ethane	260.300	254.363	2.3	104	0.00
6	Propane	254.500	249.659	1.9	104	-0.01

Evaluate Continuing Calibration Report - Not Founds

5	Propene	250.000	0.000	100.0#	0	-4.26#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0326.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 10:37 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 10:56:02 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.465	14662118	268.828	ug/L
2)	Acetylene	2.221	11774445	481.757	ug/L
3)	Ethylene	2.415	9680144	234.276	ug/L
4)	Ethane	2.563	14389820	254.363	ug/L
5)	Propene	0.000	0	N.D.	ug/L
6)	Propane	5.230	15428334	249.659	ug/L

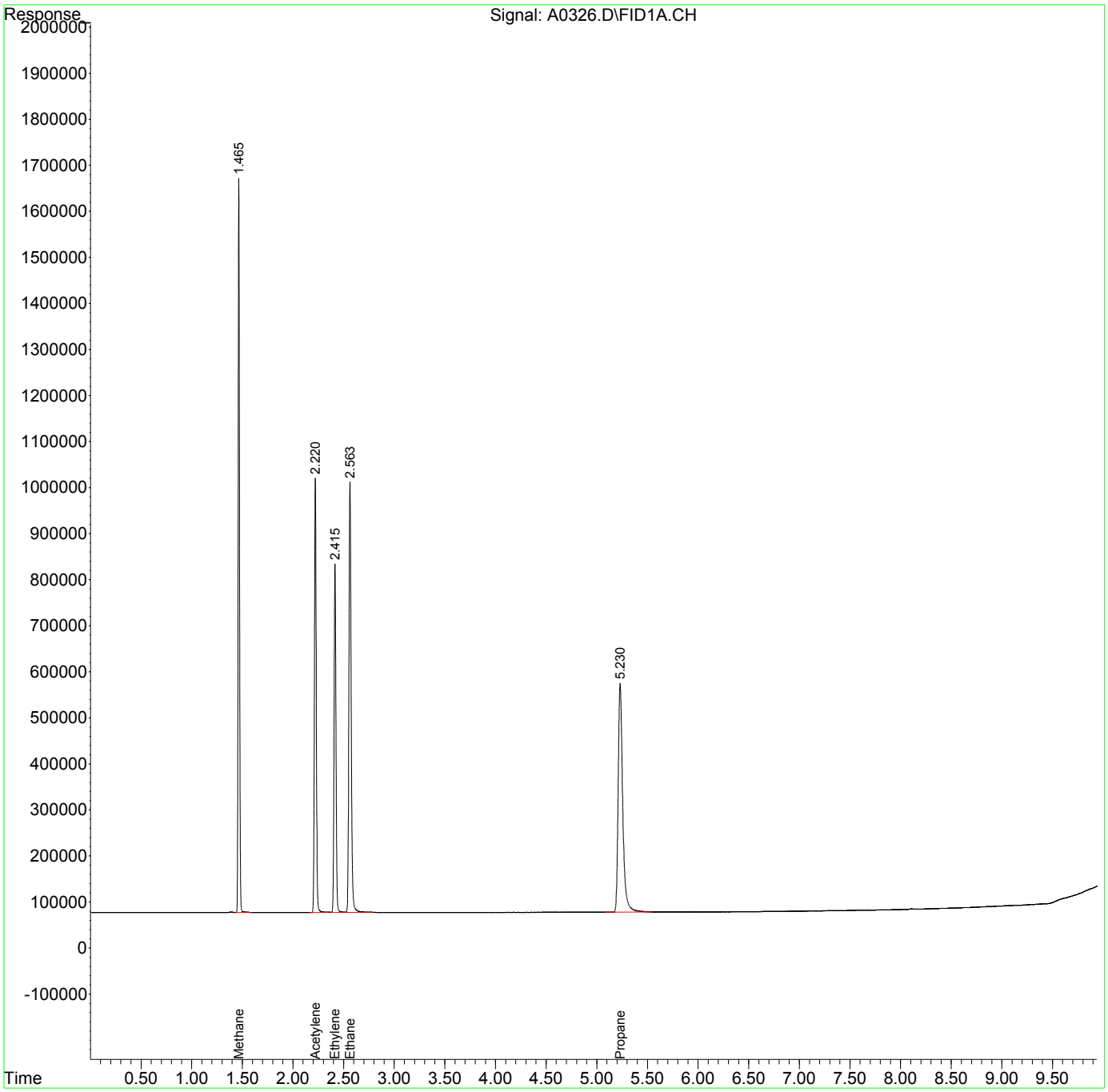
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0326.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 10:37 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 10:56:02 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



1st FW 02/23/24
2nd WR 02/23/24

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0339.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 2:21 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 14:31:55 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Methane	262.300	269.798	-2.9	106	0.00
2	Acetylene	500.600	479.950	4.1	101	0.00
3	Ethylene	242.800	235.721	2.9	99	0.00
4	Ethane	260.300	252.946	2.8	103	-0.01
6	Propane	254.500	247.893	2.6	103	-0.02

Evaluate Continuing Calibration Report - Not Founds

5	Propene	250.000	0.000	100.0#	0	-4.26#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0339.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 2:21 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 14:31:55 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.463	14714446	269.798	ug/L
2)	Acetylene	2.218	11730281	479.950	ug/L
3)	Ethylene	2.412	9739861	235.721	ug/L
4)	Ethane	2.560	14309649	252.946	ug/L
5)	Propene	0.000	0	N.D.	ug/L
6)	Propane	5.226	15319199	247.893	ug/L

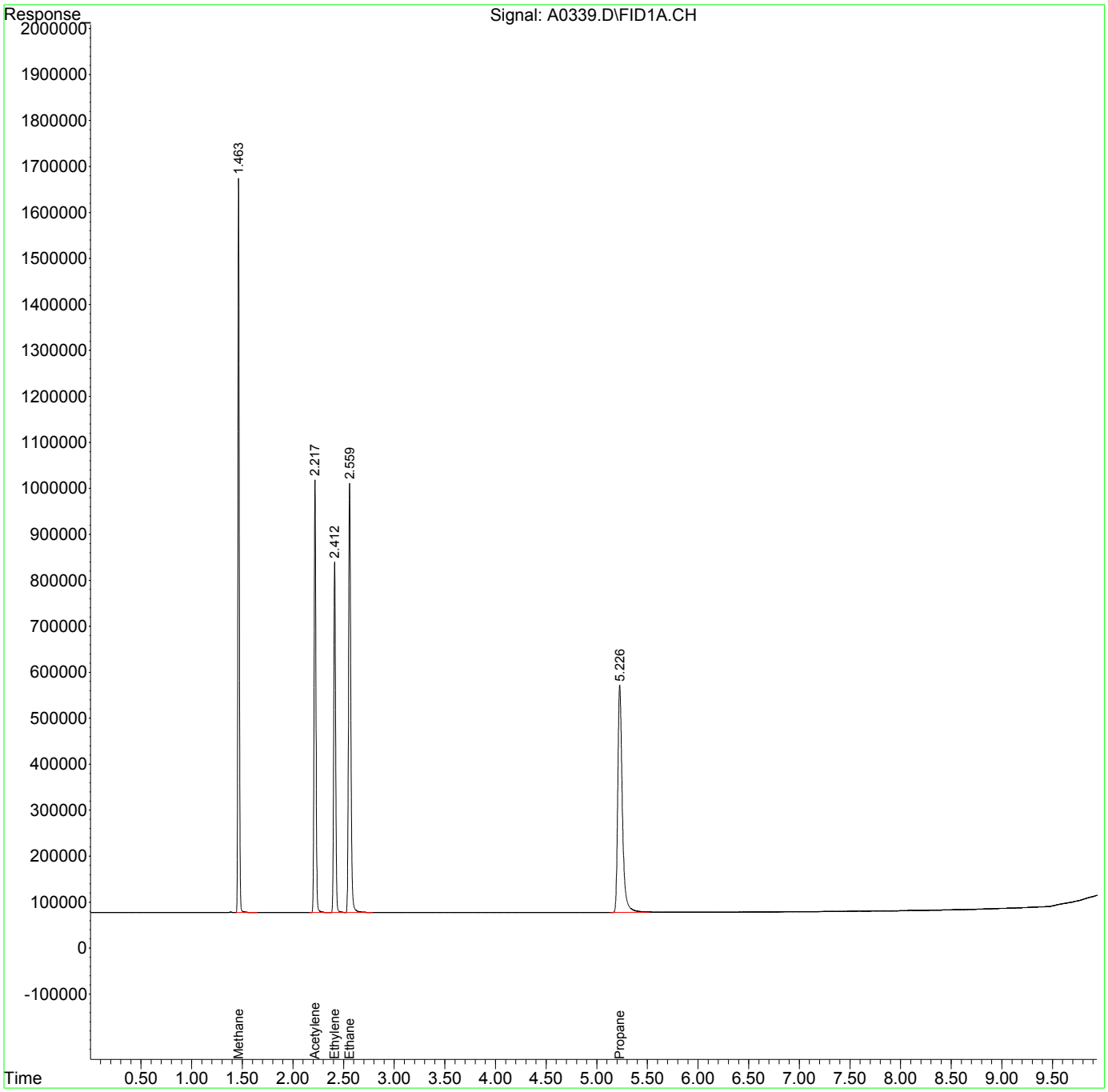
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\022324\
Data File : A0339.D
Signal(s) : FID1A.CH
Acq On : 23 Feb 2024 2:21 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 23 14:31:55 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



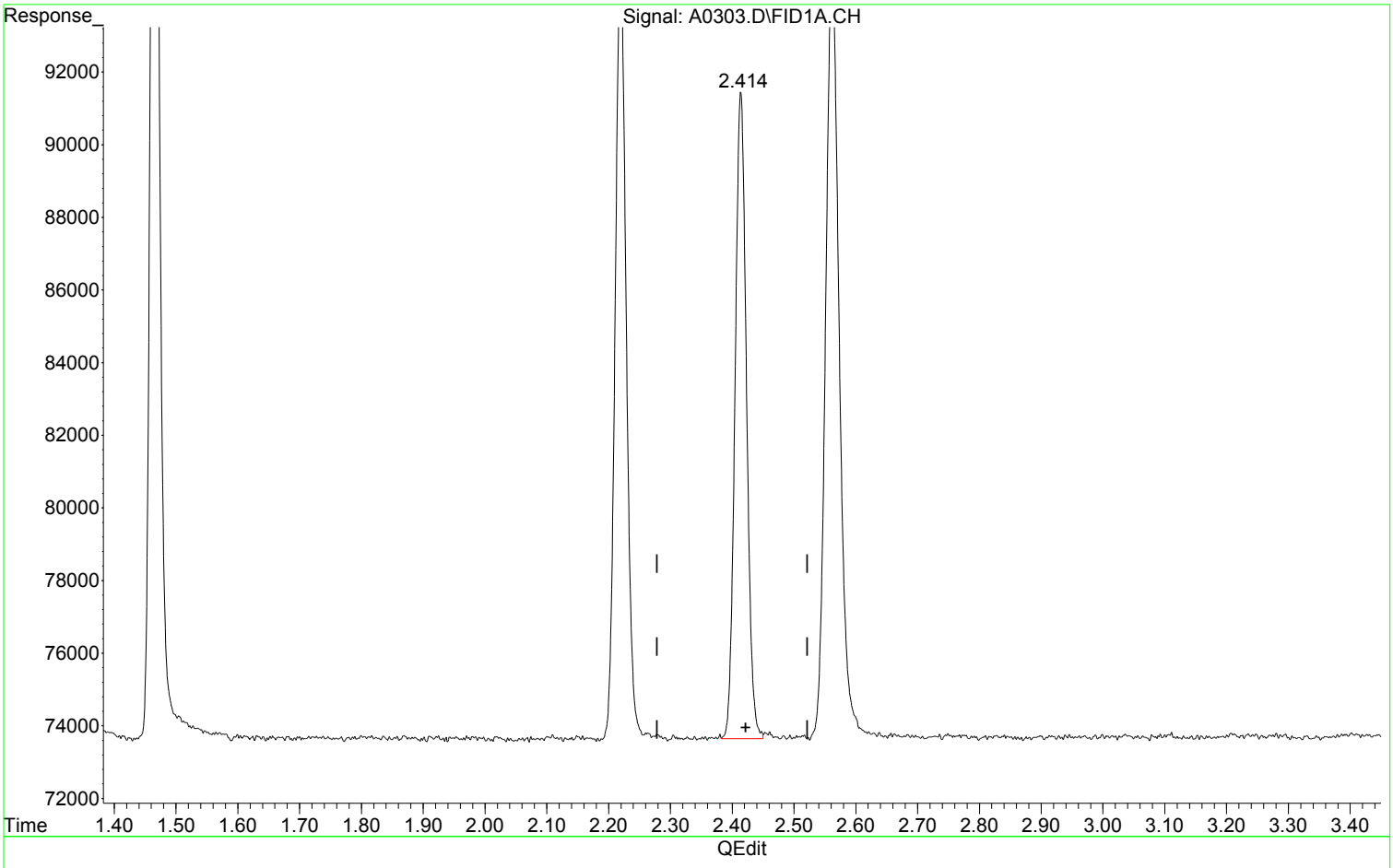
1st FN 02/16/24
2nd 02/19/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0303.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 11:17 am
Operator : F.NAEGLER
Sample : R2400835-004
Misc : ALS 2722 T2
ALS Vial : 7 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 11:59:45 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(3) Ethylene
2.414min 5.523 ug/L m
response 228203

Manual Integration:
After
Peak not found.
02/16/24

(+) = Expected Retention Time

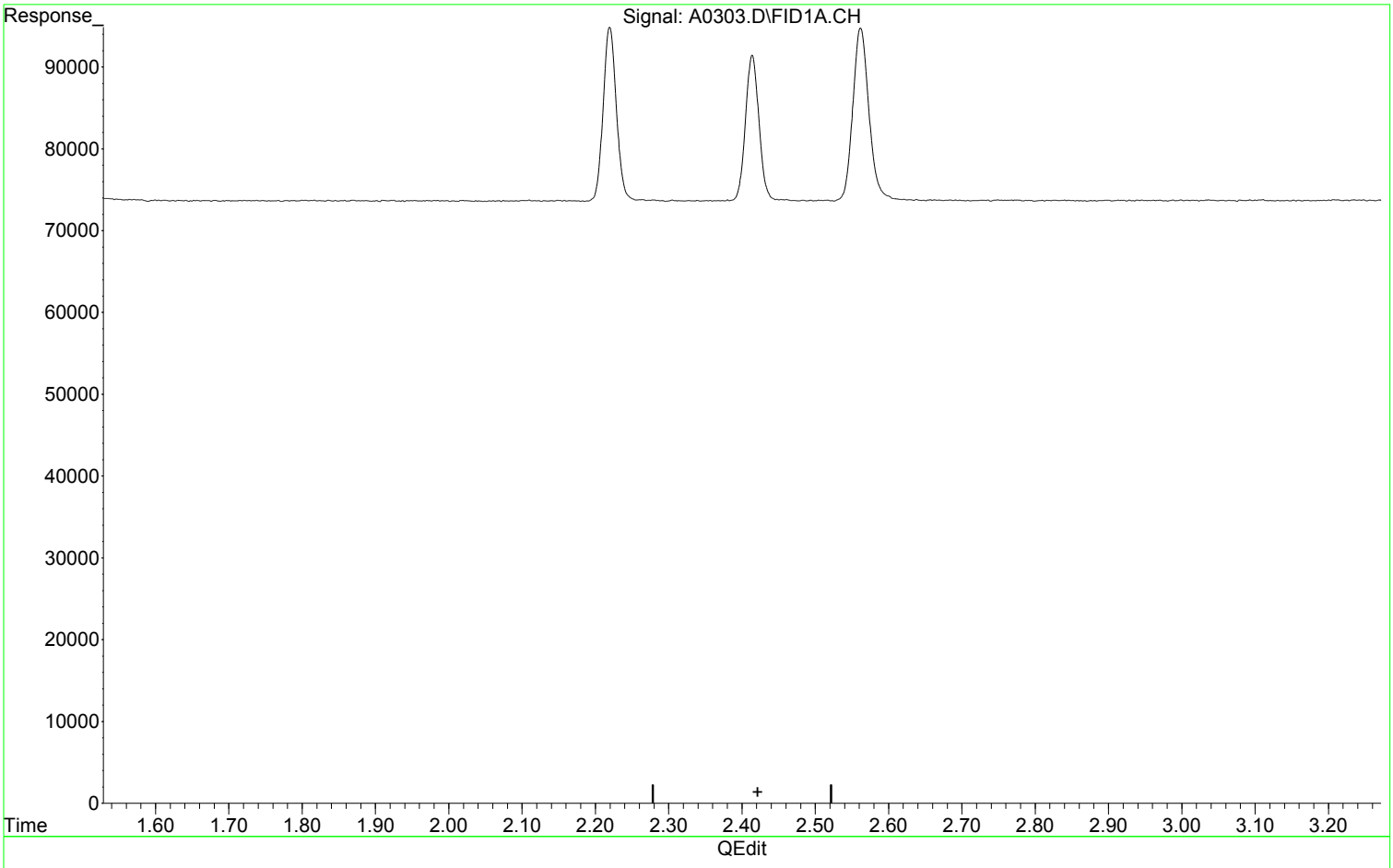
1st FN 02/16/24
2nd 02/19/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0303.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 11:17 am
Operator : F.NAEGLER
Sample : R2400835-004
Misc : ALS 2722 T2
ALS Vial : 7 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 11:59:45 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(3) Ethylene

2.422min 0.000 ug/L

response 0

Manual Integration:

Before

02/16/24

(+) = Expected Retention Time

1st FW 02/16/24
2nd 02/19/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0303.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 11:17 am
Operator : F.NAEGLER
Sample : R2400835-004
Misc : ALS 2722 T2
ALS Vial : 7 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 11:59:45 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

MDL = 5.0 ppb

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.466	379394	4.024	ug/L	
2)	Acetylene	0.000	0	N.D.	ug/L	
3)	Ethylene	2.414	228203	5.523	ug/L	m
4)	Ethane	2.562	328339	5.804	ug/L	
5)	Propene	0.000	0	N.D.	ug/L	
6)	Propane	5.228	337164	5.456	ug/L	

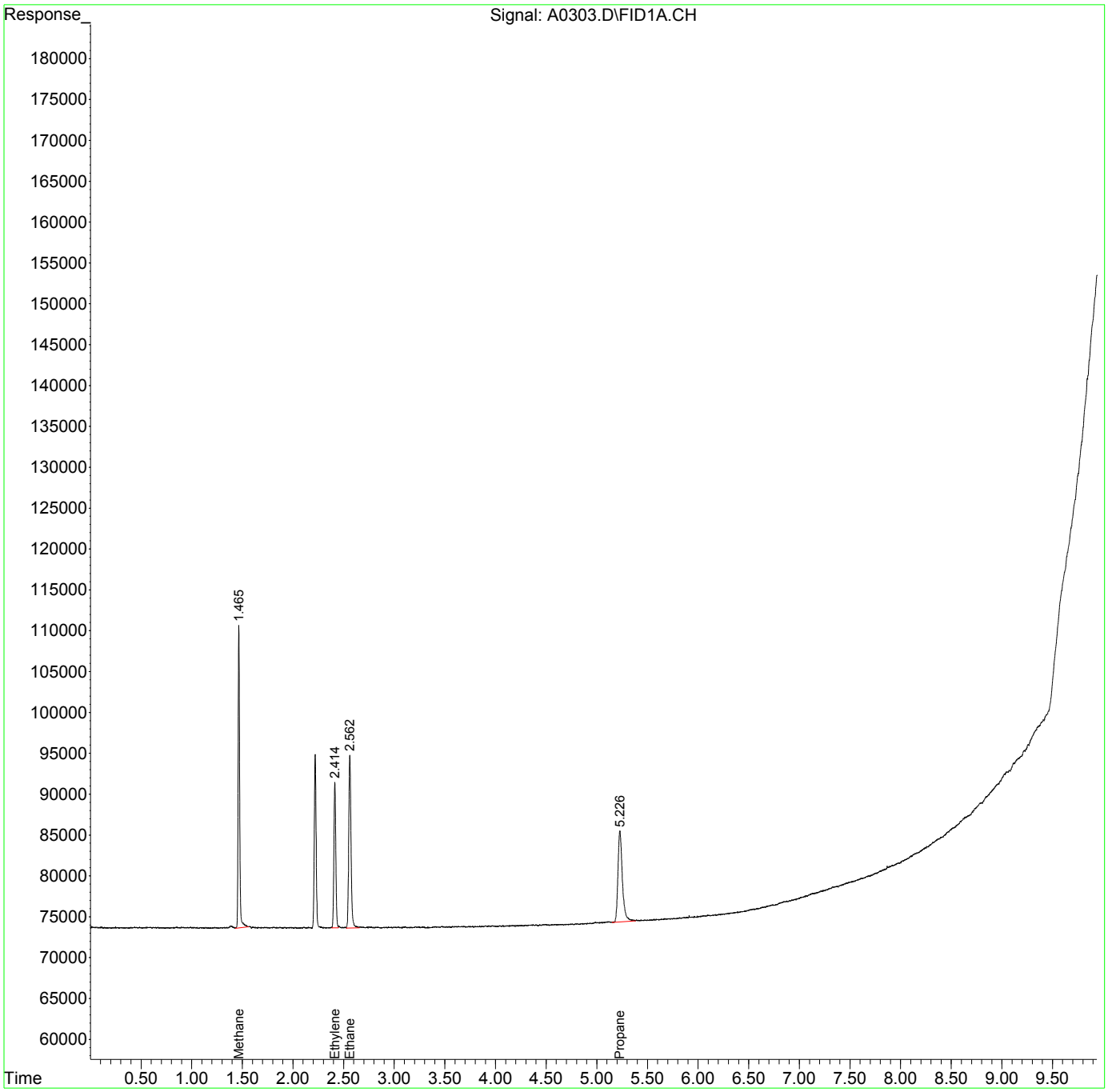
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\021624\
Data File : A0303.D
Signal(s) : FID1A.CH
Acq On : 16 Feb 2024 11:17 am
Operator : F.NAEGLER
Sample : R2400835-004
Misc : ALS 2722 T2
ALS Vial : 7 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Feb 16 11:59:45 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\071223\
Data File : A0024.D
Signal(s) : FID1A.CH
Acq On : 12 Jul 2023 5:00 pm
Operator : F.NAEGLER
Sample : 250 PPB ICV
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Aug 01 17:05:56 2023
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.470	13808133	252.995 ug/L
2)	Acetylene	2.228	11467188	469.185 ug/L
3)	Ethylene	2.423	9832390	237.961 ug/L
4)	Ethane	2.572	13724909	242.610 ug/L
5)	Propene	0.000	0	N.D. ug/L
6)	Propane	5.245	14507223	234.753 ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

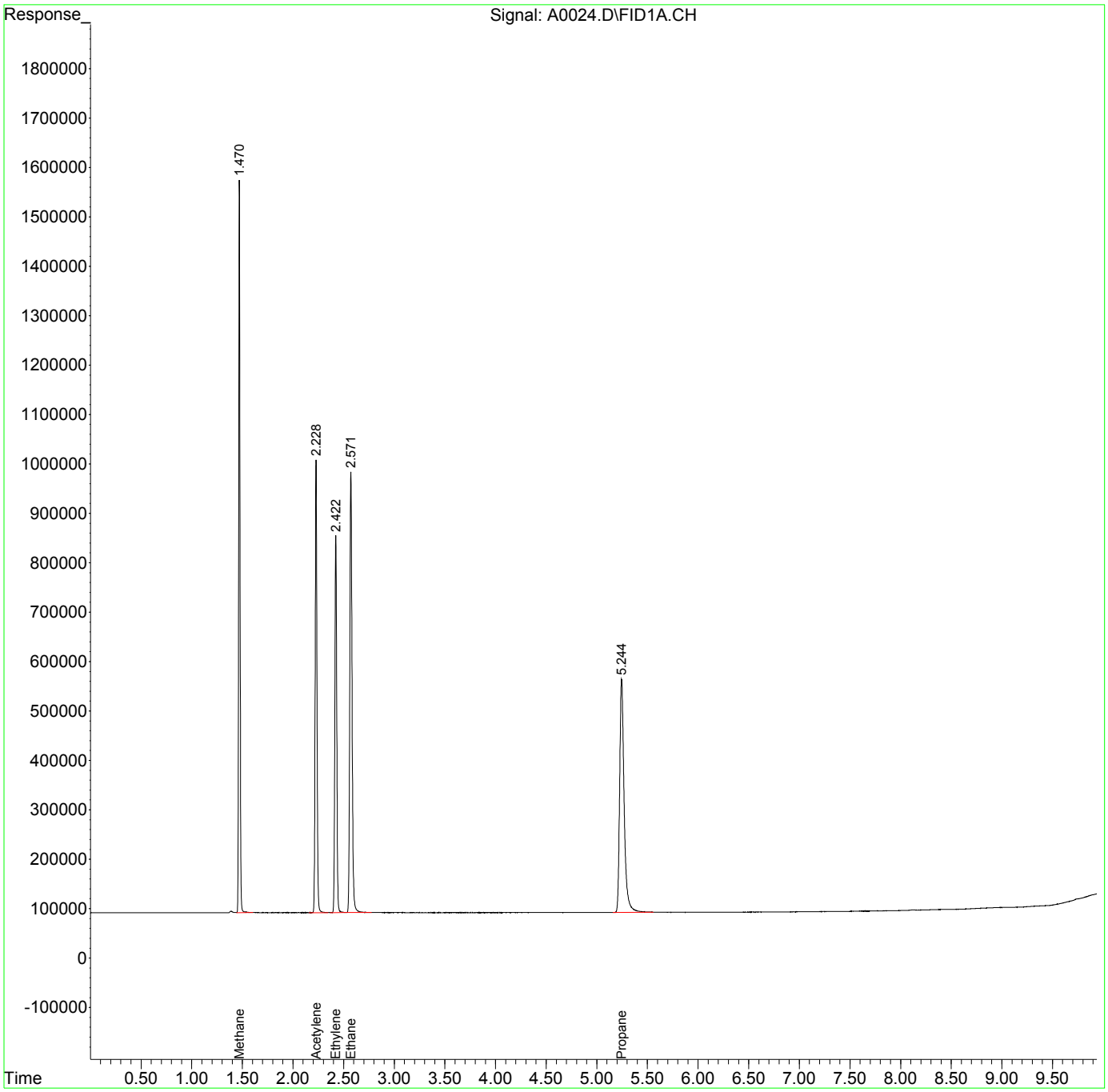
Changes were made to the ICAL True Values before samples were analyzed due to a calculation error. The printouts in this ICAL packet have been reprinted with the correct nomimal ICAL values. The calculated concentrations of the ICAL standards have been hand corrected by Fred Naegler on 1-11-24.
VSC 1-11-24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\071223\
Data File : A0024.D
Signal(s) : FID1A.CH
Acq On : 12 Jul 2023 5:00 pm
Operator : F.NAEGLER
Sample : 250 PPB ICV
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Aug 01 17:05:56 2023
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

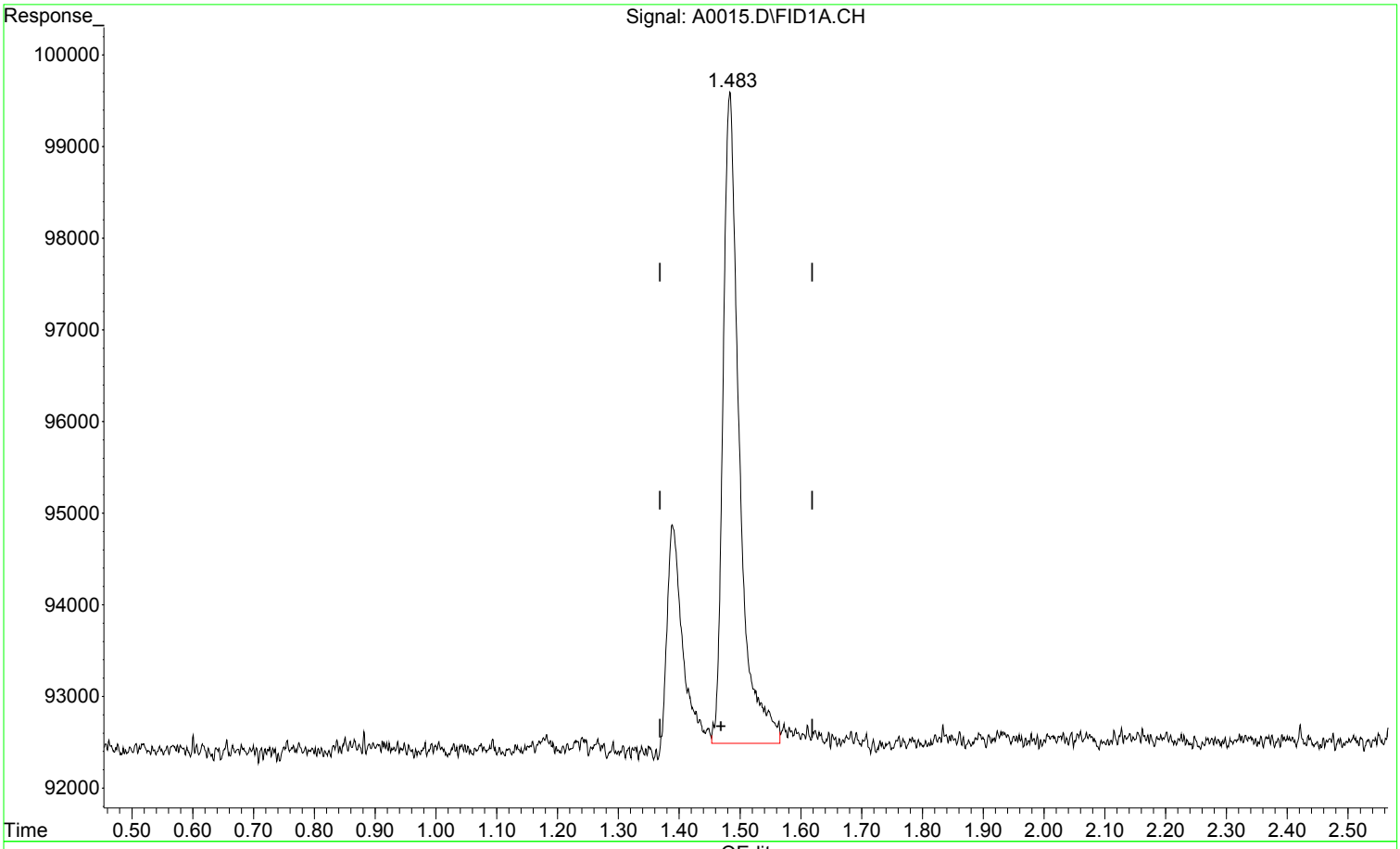


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\071223\
Data File : A0015.D
Signal(s) : FID1A.CH
Acq On : 12 Jul 2023 2:26 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Aug 01 17:03:23 2023
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.483min -0.554 ug/L m

response 132504

Manual Integration:

After

Peak not found.

08/01/23

(+) = Expected Retention Time

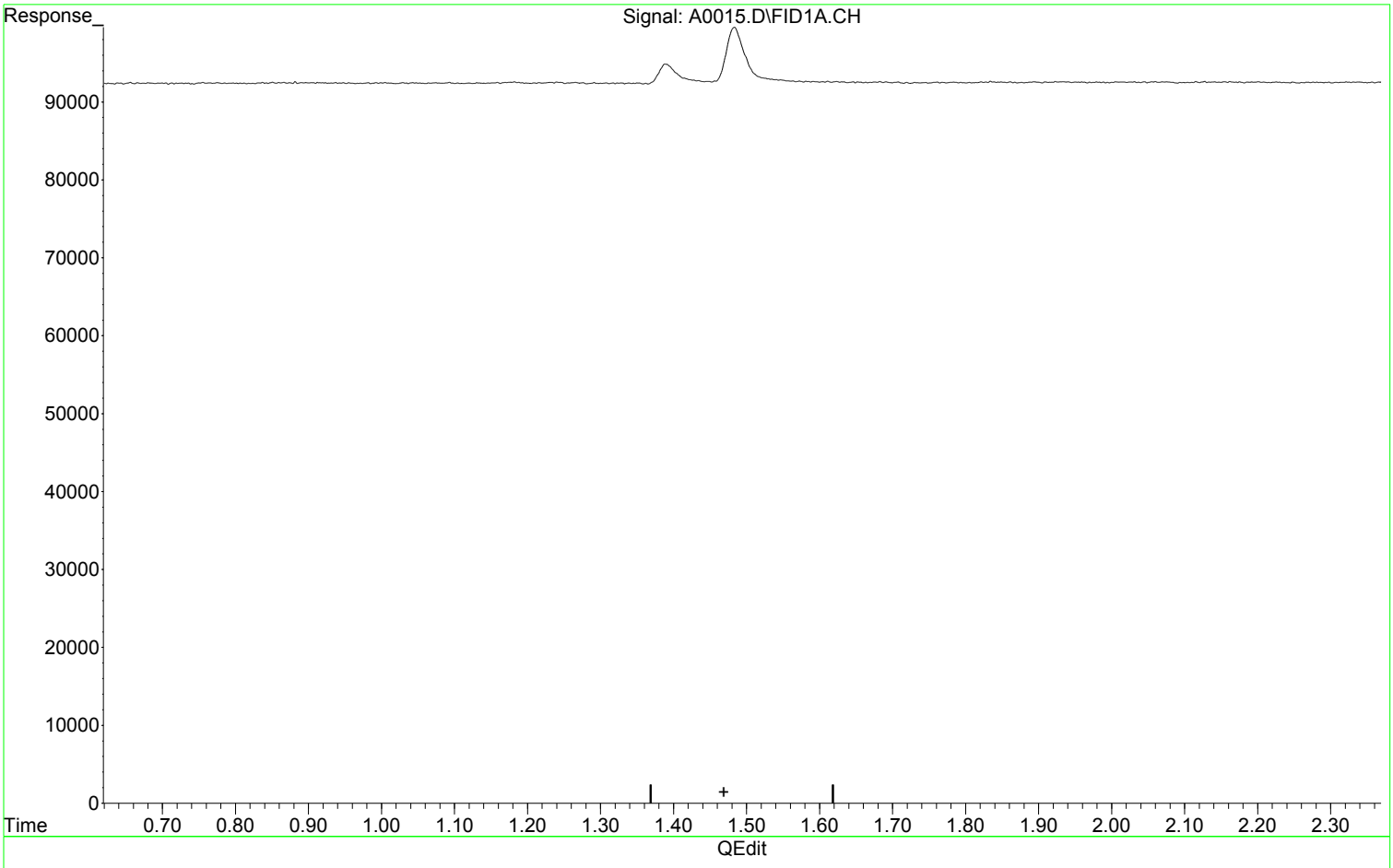
1st FJ 07/20/23
2nd AM 07/24/23

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\071223\
Data File : A0015.D
Signal(s) : FID1A.CH
Acq On : 12 Jul 2023 2:26 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Aug 01 17:03:23 2023
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.469min 0.000 ug/L

response 0

Manual Integration:

Before

08/01/23

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\071223\
Data File : A0015.D
Signal(s) : FID1A.CH
Acq On : 12 Jul 2023 2:26 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Aug 01 17:03:23 2023
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.483	132504	N.D.	ug/L	m
2)	Acetylene	0.000	0	N.D.	ug/L	
3)	Ethylene	0.000	0	N.D.	ug/L	
4)	Ethane	0.000	0	N.D.	ug/L	
5)	Propene	0.000	0	N.D.	ug/L	
6)	Propane	0.000	0	N.D.	ug/L	

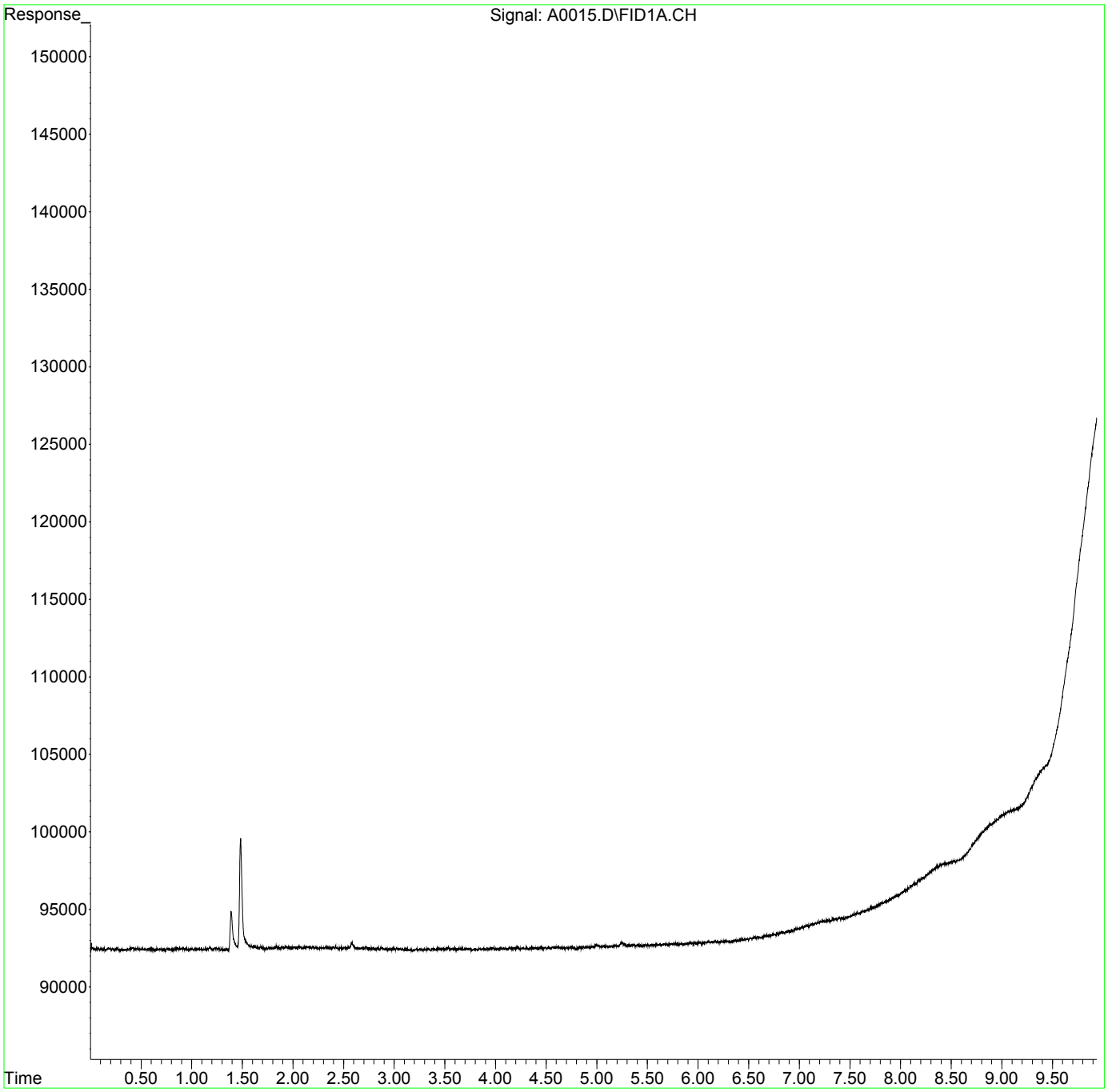
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\071223\
Data File : A0015.D
Signal(s) : FID1A.CH
Acq On : 12 Jul 2023 2:26 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Aug 01 17:03:23 2023
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



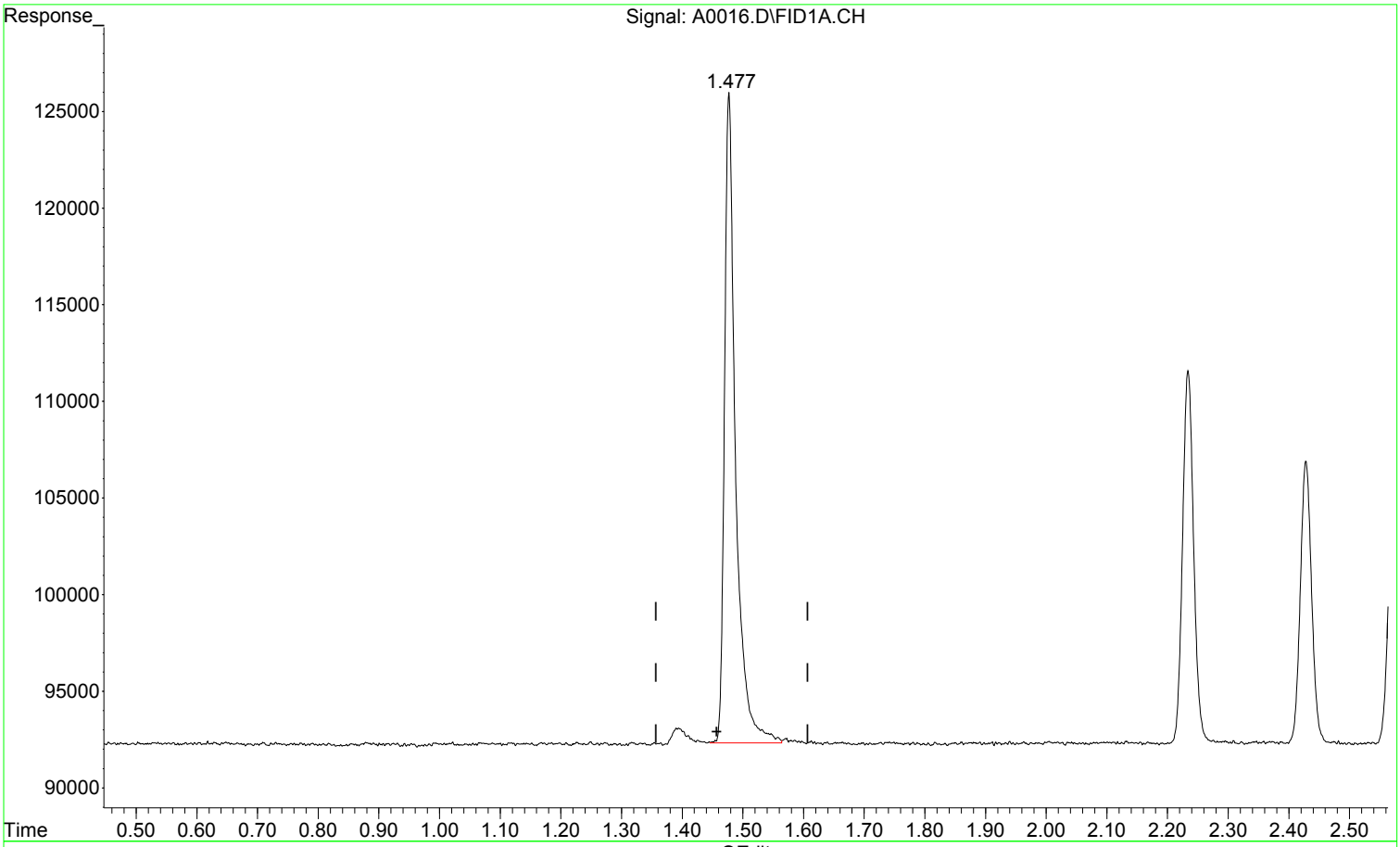
1st FJ 07/20/23
2nd AM 07/24/23

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\071223\
Data File : A0016.D
Signal(s) : FID1A.CH
Acq On : 12 Jul 2023 2:40 pm
Operator : F.NAEGLER
Sample : 1 PPB STD
Misc : 5
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jul 12 14:51:25 2023
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Thu Jul 06 17:48:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.477min 1.572 ug/L m

response 429133

Manual Integration:

After

Poor integration.

07/12/23

(+) = Expected Retention Time

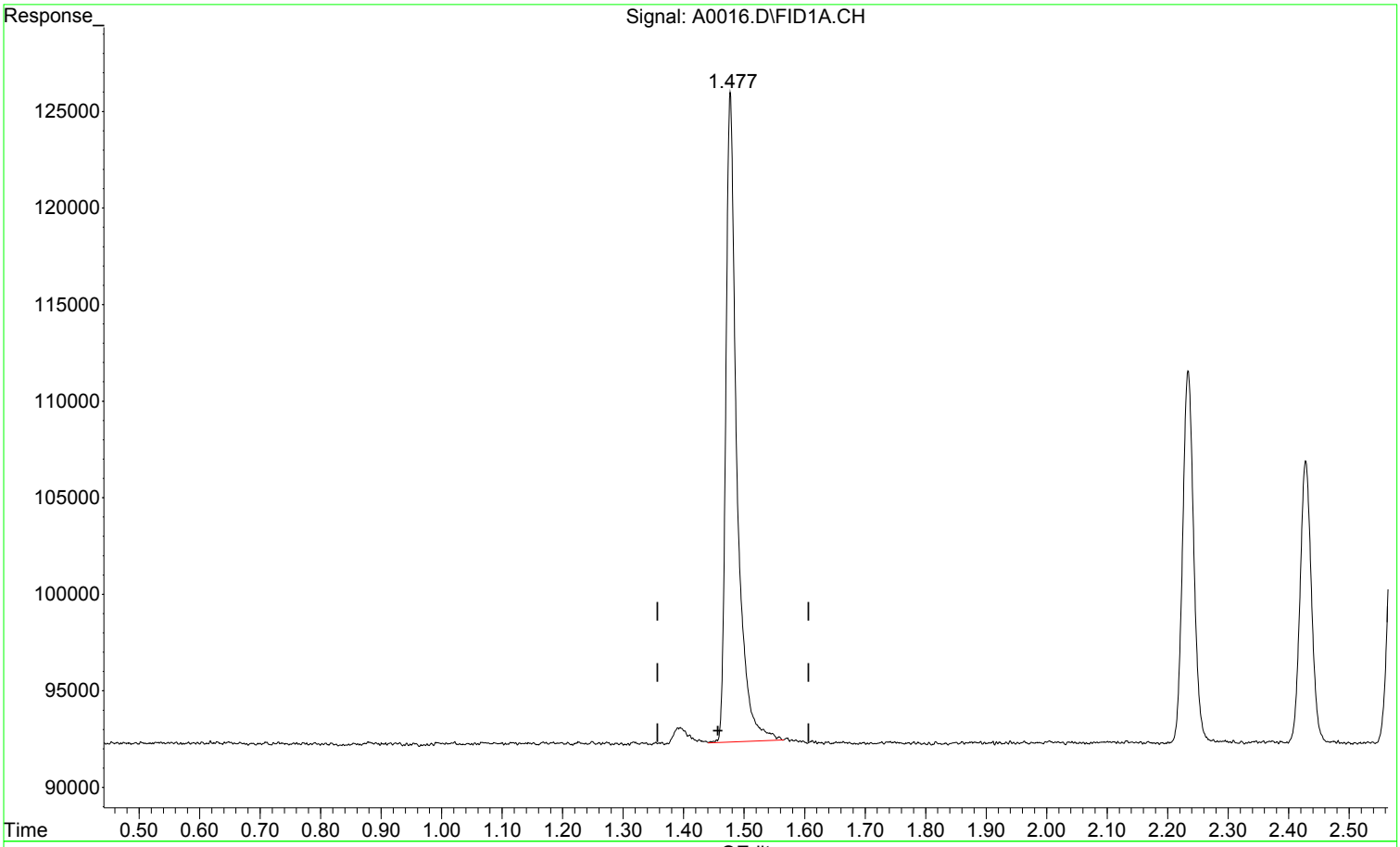
1st FJ 07/20/23
2nd AM 07/24/23

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\071223\
Data File : A0016.D
Signal(s) : FID1A.CH
Acq On : 12 Jul 2023 2:40 pm
Operator : F.NAEGLER
Sample : 1 PPB STD
Misc : 5
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jul 12 14:51:25 2023
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Thu Jul 06 17:48:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.477min 1.560 ug/L

response 425817

Manual Integration:

Before

07/12/23

(+) = Expected Retention Time

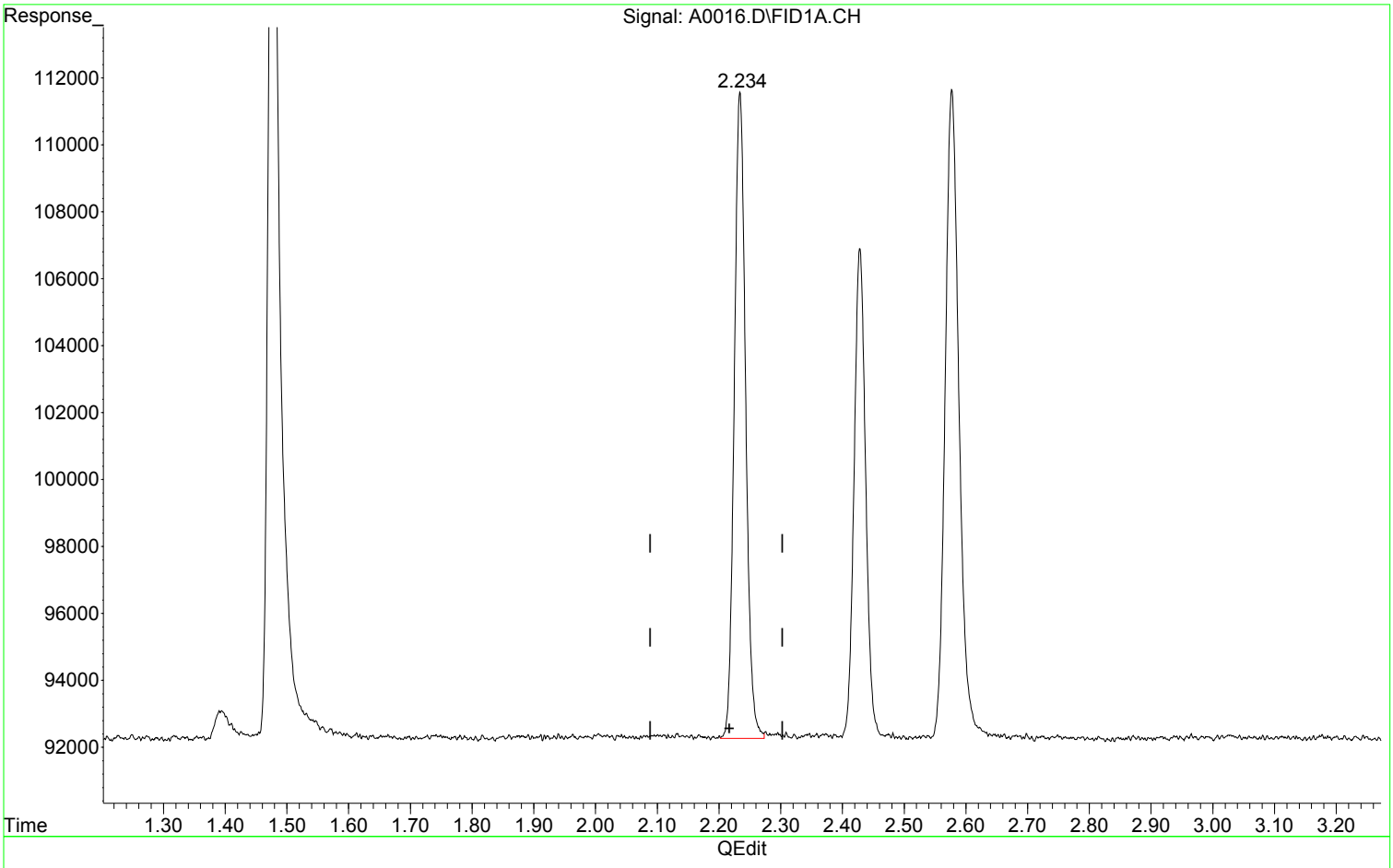
1st FJ 07/20/23
2nd AM 07/24/23

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\071223\
Data File : A0016.D
Signal(s) : FID1A.CH
Acq On : 12 Jul 2023 2:40 pm
Operator : F.NAEGLER
Sample : ~~1~~ PPB STD
Misc : 5
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jul 12 14:51:25 2023
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Thu Jul 06 17:48:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(2) Acetylene

2.234min 2.347 ug/L m

response 246824

Manual Integration:

After

Peak not found.

07/12/23

(+) = Expected Retention Time

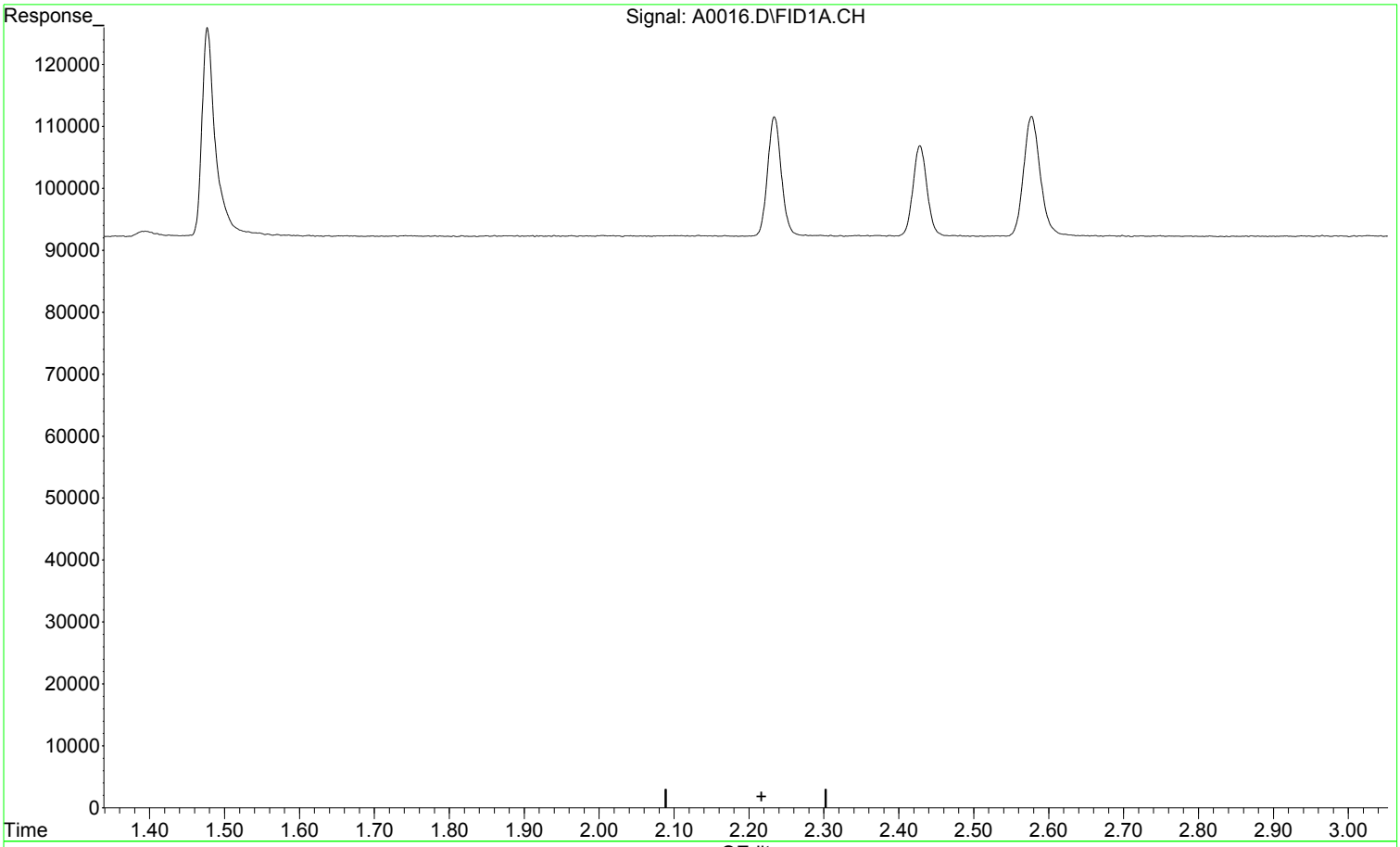
1st FJ 07/20/23
2nd AM 07/24/23

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\071223\
Data File : A0016.D
Signal(s) : FID1A.CH
Acq On : 12 Jul 2023 2:40 pm
Operator : F.NAEGLER
Sample : ~~1~~ PPB STD
Misc : 5
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jul 12 14:51:25 2023
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Thu Jul 06 17:48:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(2) Acetylene
2.217min 0.000 ug/L
response 0

Manual Integration:
Before

07/12/23

(+) = Expected Retention Time

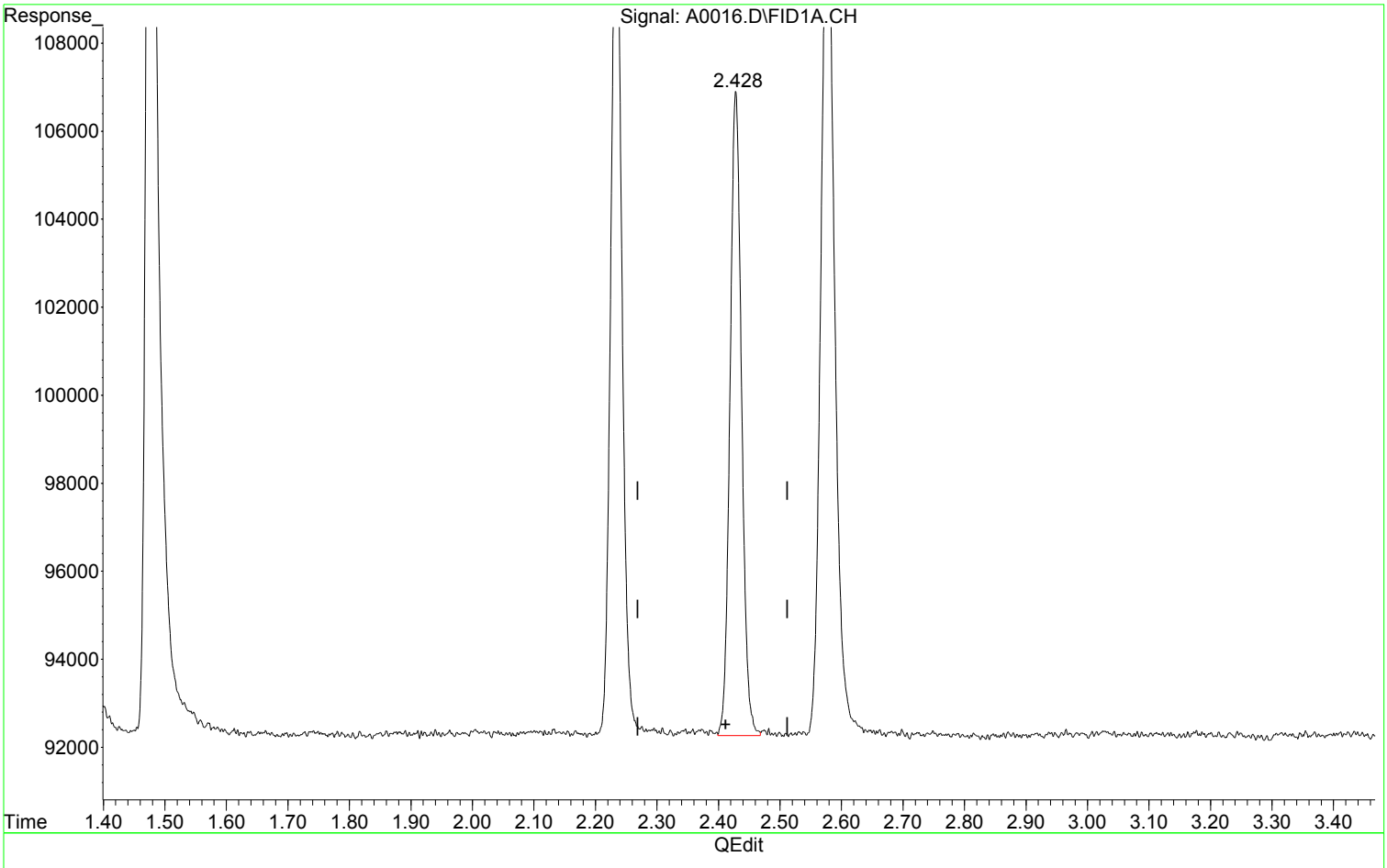
1st FJ 07/20/23
2nd AM 07/24/23

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\071223\
Data File : A0016.D
Signal(s) : FID1A.CH
Acq On : 12 Jul 2023 2:40 pm
Operator : F.NAEGLER
Sample : 1 PPB STD
Misc : 5
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jul 12 14:51:25 2023
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Thu Jul 06 17:48:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(3) Ethylene

2.428min 0.589 ug/L m

response 190791

Manual Integration:

After

Peak not found.

07/12/23

(+) = Expected Retention Time

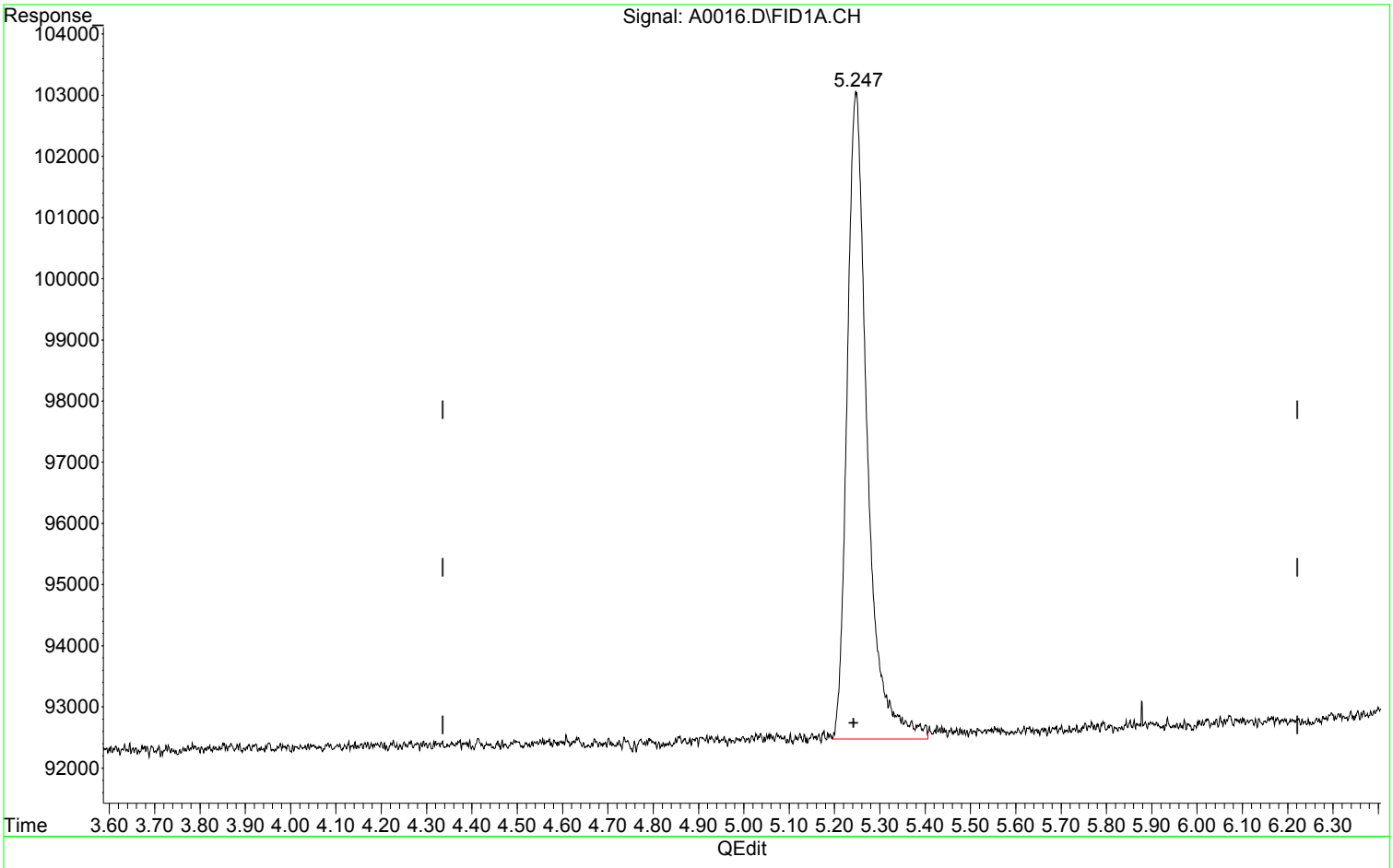
1st FJ 07/20/23
2nd AM 07/24/23

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\071223\
Data File : A0016.D
Signal(s) : FID1A.CH
Acq On : 12 Jul 2023 2:40 pm
Operator : F.NAEGLER
Sample : 1 PPB STD
Misc : 5
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jul 12 14:51:25 2023
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Thu Jul 06 17:48:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(6) Propane
5.247min 1.203 ug/L m
response 326288

Manual Integration:
After
Poor integration.
07/12/23

(+) = Expected Retention Time

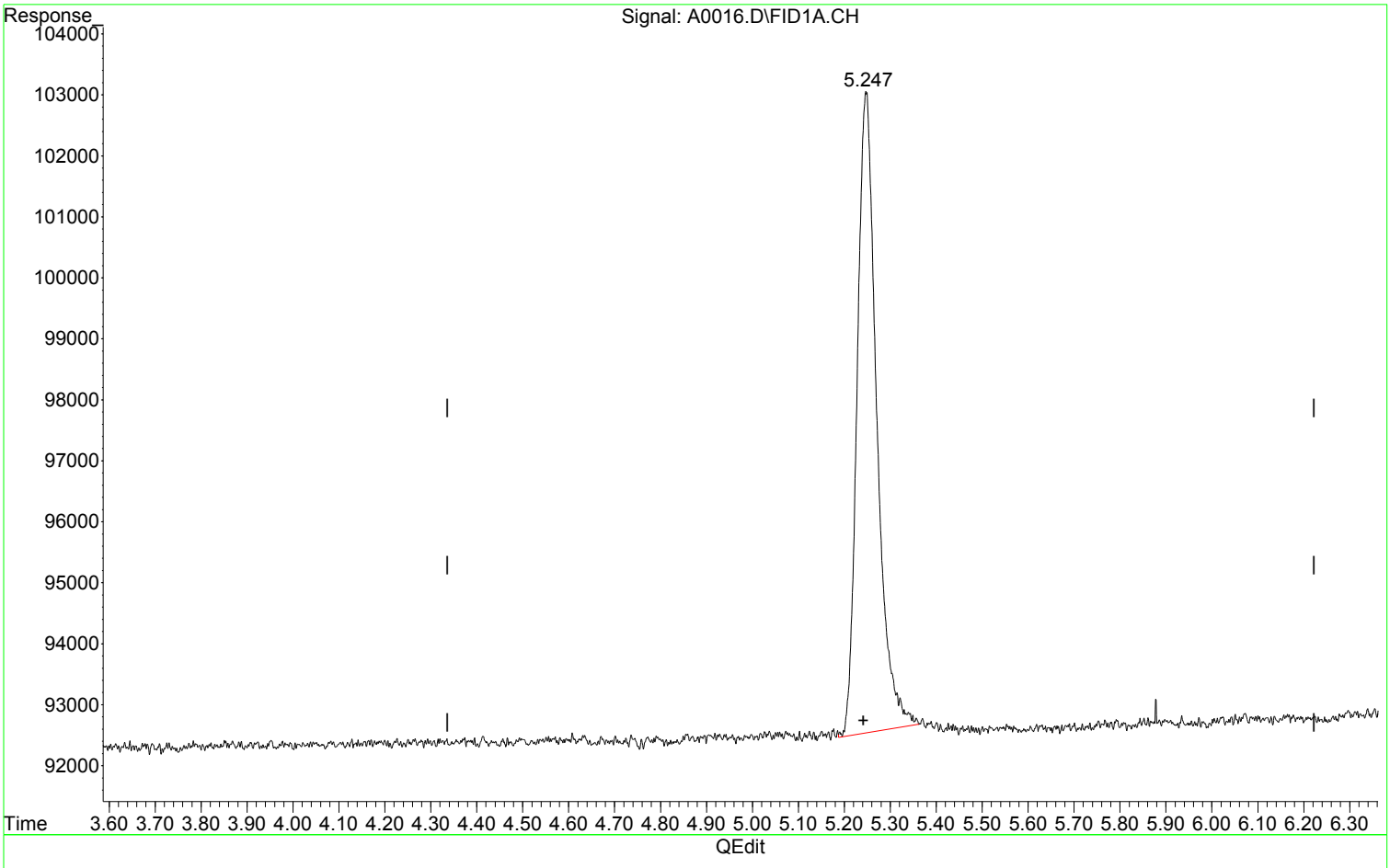
1st FN 07/20/23
2nd AM 07/24/23

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\071223\
Data File : A0016.D
Signal(s) : FID1A.CH
Acq On : 12 Jul 2023 2:40 pm
Operator : F.NAEGLER
Sample : ~~1~~ PPB STD
Misc : 5
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jul 12 14:51:25 2023
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Thu Jul 06 17:48:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(6) Propane

5.248min 1.147 ug/L

response 311095

Manual Integration:

Before

07/12/23

(+) = Expected Retention Time

1st FJ 08/09/23
2nd FJ 08/09/23

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\071223\
Data File : A0016.D
Signal(s) : FID1A.CH
Acq On : 12 Jul 2023 2:40 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jul 12 14:51:25 2023
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Thu Jul 06 17:48:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units	
Target Compounds					
1)	Methane	1.477	429133	~~1.572~~ ug/L m	7.86
2)	Acetylene	2.234	246824	~~2.347~~ ug/L m	11.735
3)	Ethylene	2.428	190791	~~0.589~~ ug/L m	2.945
4)	Ethane	2.577	301711	~~1.256~~ ug/L	6.28
5)	Propene	0.000	0	N.D. ug/L	
6)	Propane	5.247	326288	~~1.203~~ ug/L m	6.015

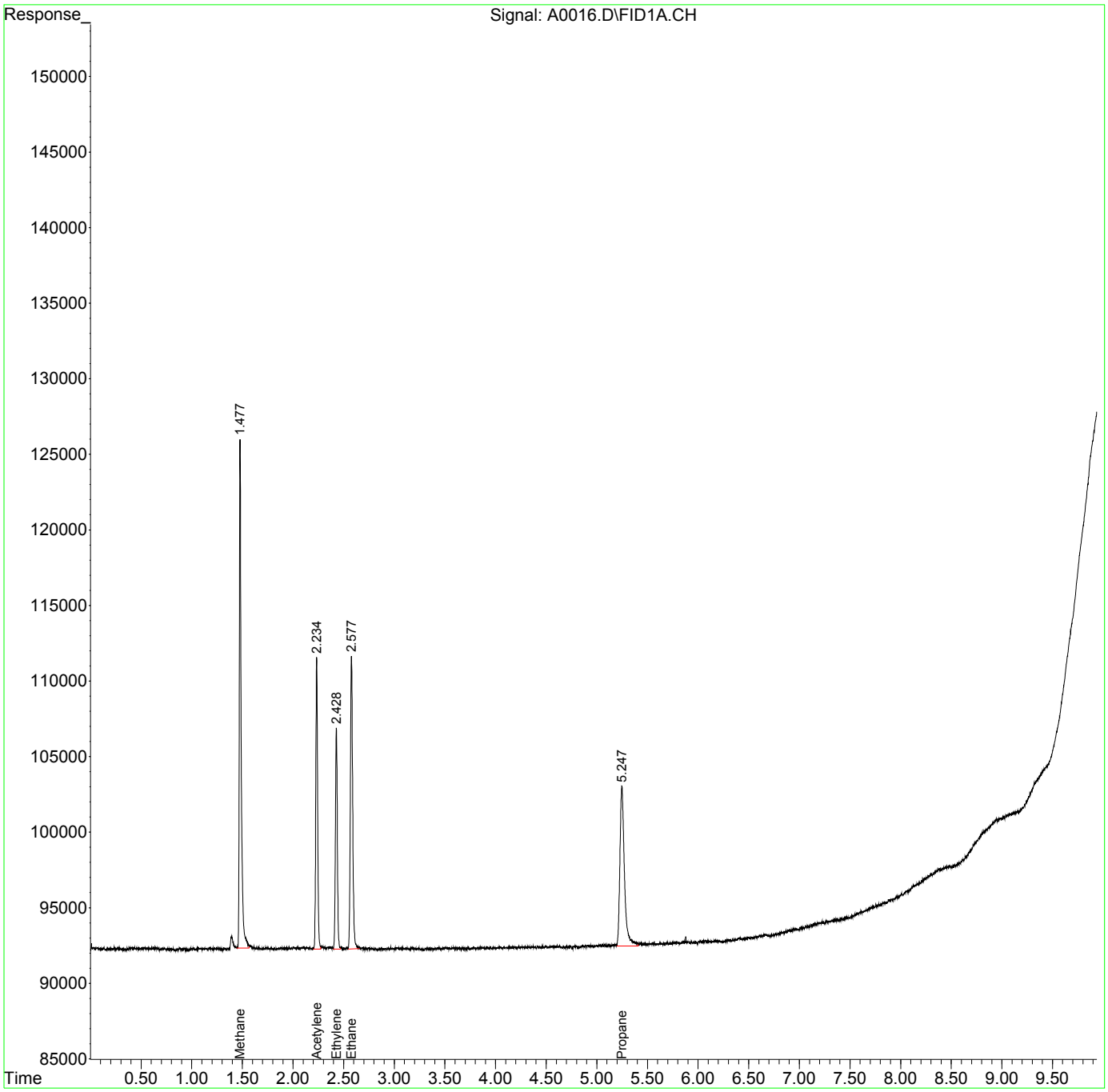
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\071223\
Data File : A0016.D
Signal(s) : FID1A.CH
Acq On : 12 Jul 2023 2:40 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jul 12 14:51:25 2023
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Thu Jul 06 17:48:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



1st FJ 08/09/23
2nd FJ 08/09/23

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\071223\
Data File : A0017.D
Signal(s) : FID1A.CH
Acq On : 12 Jul 2023 2:54 pm
Operator : F.NAEGLER
Sample : 10 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jul 12 15:05:41 2023
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Thu Jul 06 17:48:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units	
Target Compounds					
1)	Methane	1.474	724442	~~2.655~~ ug/L	13.275
2)	Acetylene	2.232	526069	~~5.002~~ ug/L	25.01
3)	Ethylene	2.426	417905	~~1.289~~ ug/L	6.445
4)	Ethane	2.575	634134	~~2.639~~ ug/L	13.195
5)	Propene	0.000	0	N.D. ug/L	
6)	Propane	5.246	667928	~~2.463~~ ug/L	12.315

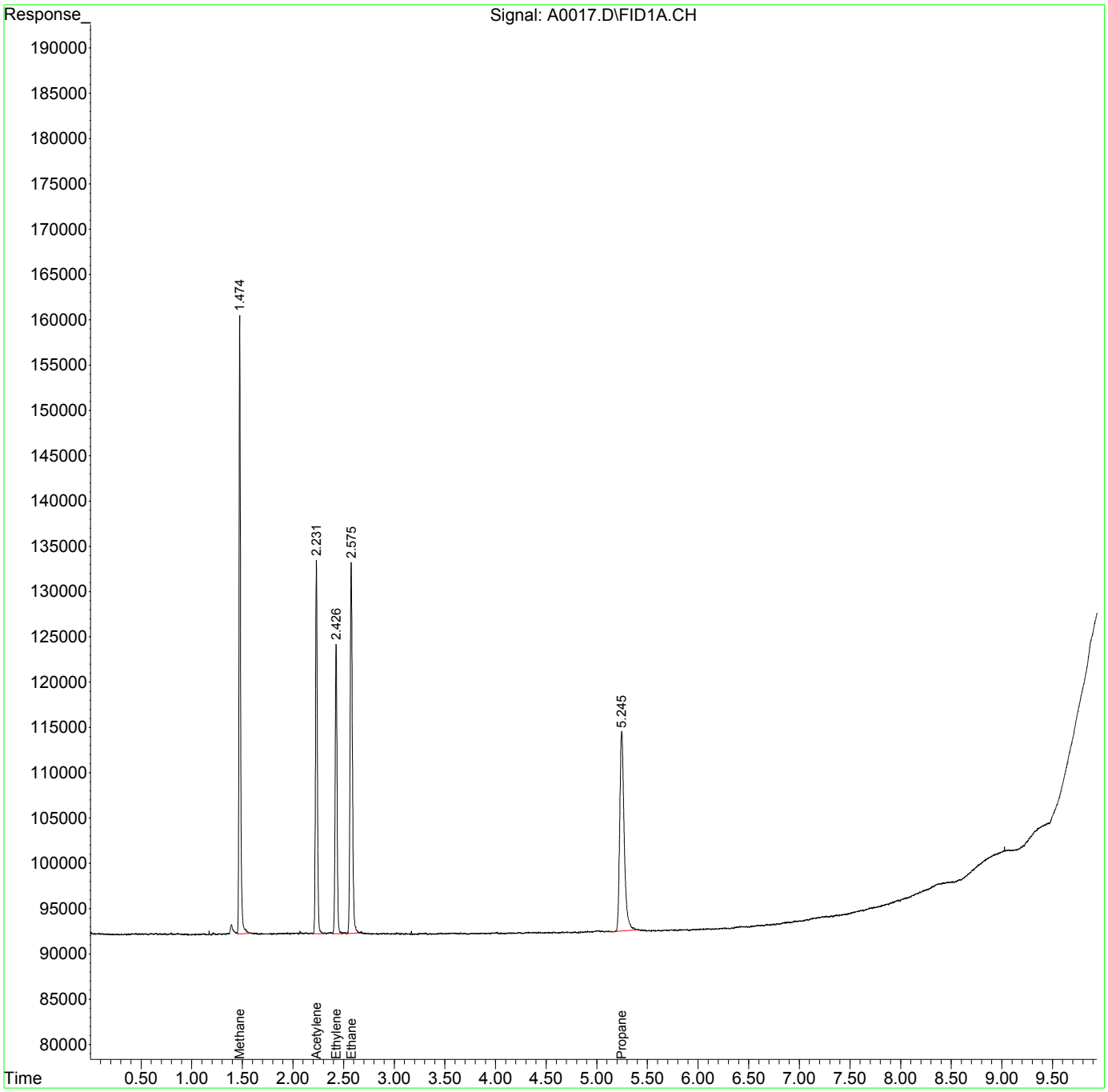
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\071223\
Data File : A0017.D
Signal(s) : FID1A.CH
Acq On : 12 Jul 2023 2:54 pm
Operator : F.NAEGLER
Sample : 10 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jul 12 15:05:41 2023
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Thu Jul 06 17:48:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



1st FJ 08/09/23
2nd FJ 08/09/23

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\071223\
Data File : A0018.D
Signal(s) : FID1A.CH
Acq On : 12 Jul 2023 3:08 pm
Operator : F.NAEGLER
Sample : 50 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jul 12 15:20:40 2023
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Thu Jul 06 17:48:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.472	3182744	~~11.662~~	ug/L	58.31
2)	Acetylene	2.230	2531222	~~24.066~~	ug/L	120.33
3)	Ethylene	2.424	2090550	~~6.449~~	ug/L	32.245
4)	Ethane	2.573	3030303	~~12.613~~	ug/L	63.065
5)	Propene	0.000	0	N.D.	ug/L	
6)	Propane	5.244	3206123	~~11.824~~	ug/L	59.12

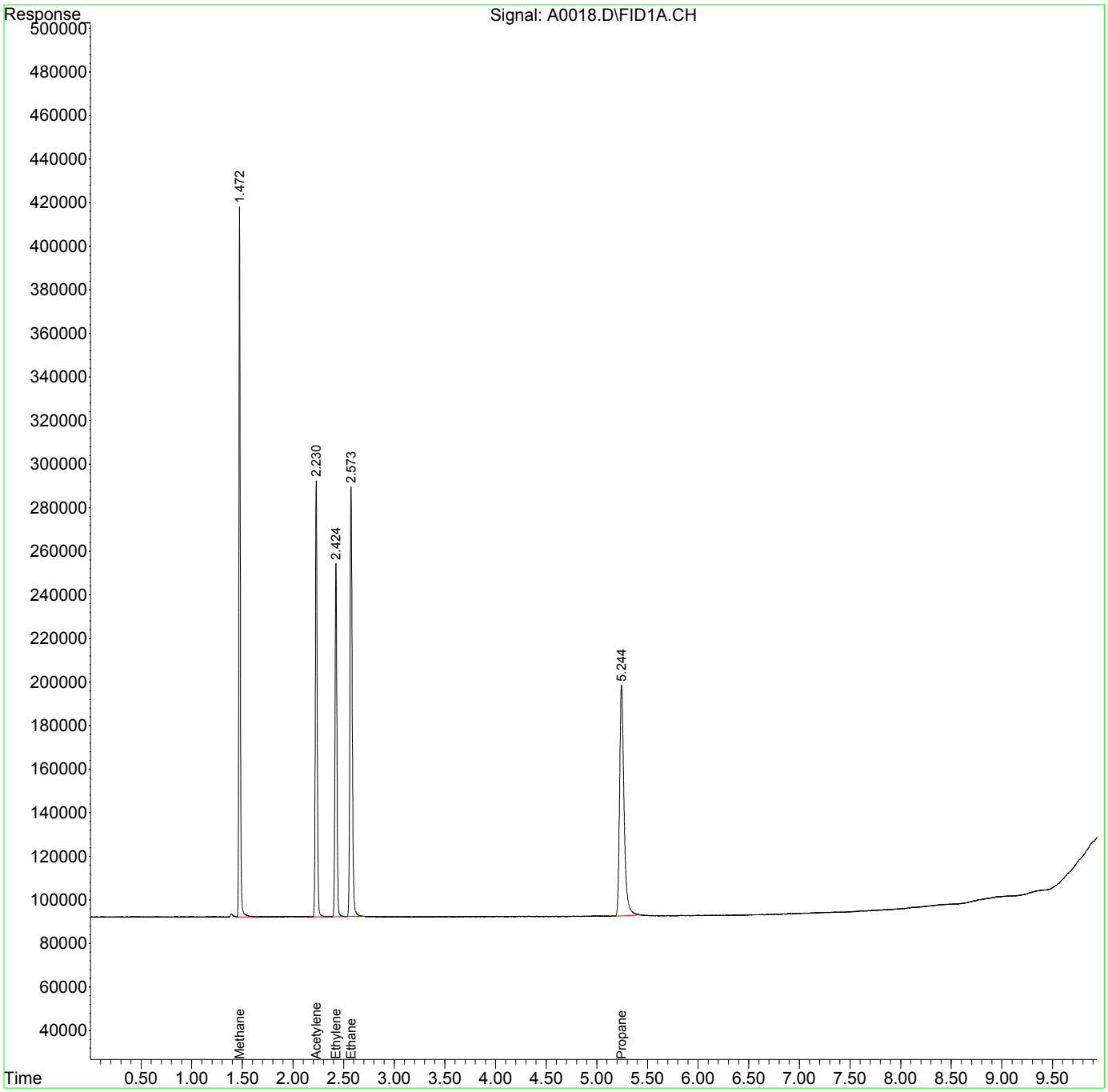
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\071223\
Data File : A0018.D
Signal(s) : FID1A.CH
Acq On : 12 Jul 2023 3:08 pm
Operator : F.NAEGLER
Sample : 50 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jul 12 15:20:40 2023
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Thu Jul 06 17:48:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



1st FJ 08/09/23
2nd FJ 08/09/23

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\071223\
Data File : A0019.D
Signal(s) : FID1A.CH
Acq On : 12 Jul 2023 3:22 pm
Operator : F.NAEGLER
Sample : 100 PPB STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jul 12 15:33:27 2023
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Thu Jul 06 17:48:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.472	5887439	~~21.573~~	ug/L	107.865
2)	Acetylene	2.229	4810980	~~45.742~~	ug/L	228.71
3)	Ethylene	2.424	3927619	~~12.116~~	ug/L	60.58
4)	Ethane	2.573	5797575	~~24.131~~	ug/L	120.655
5)	Propene	0.000	0	N.D.	ug/L	
6)	Propane	5.243	6171283	~~22.759~~	ug/L	113.795

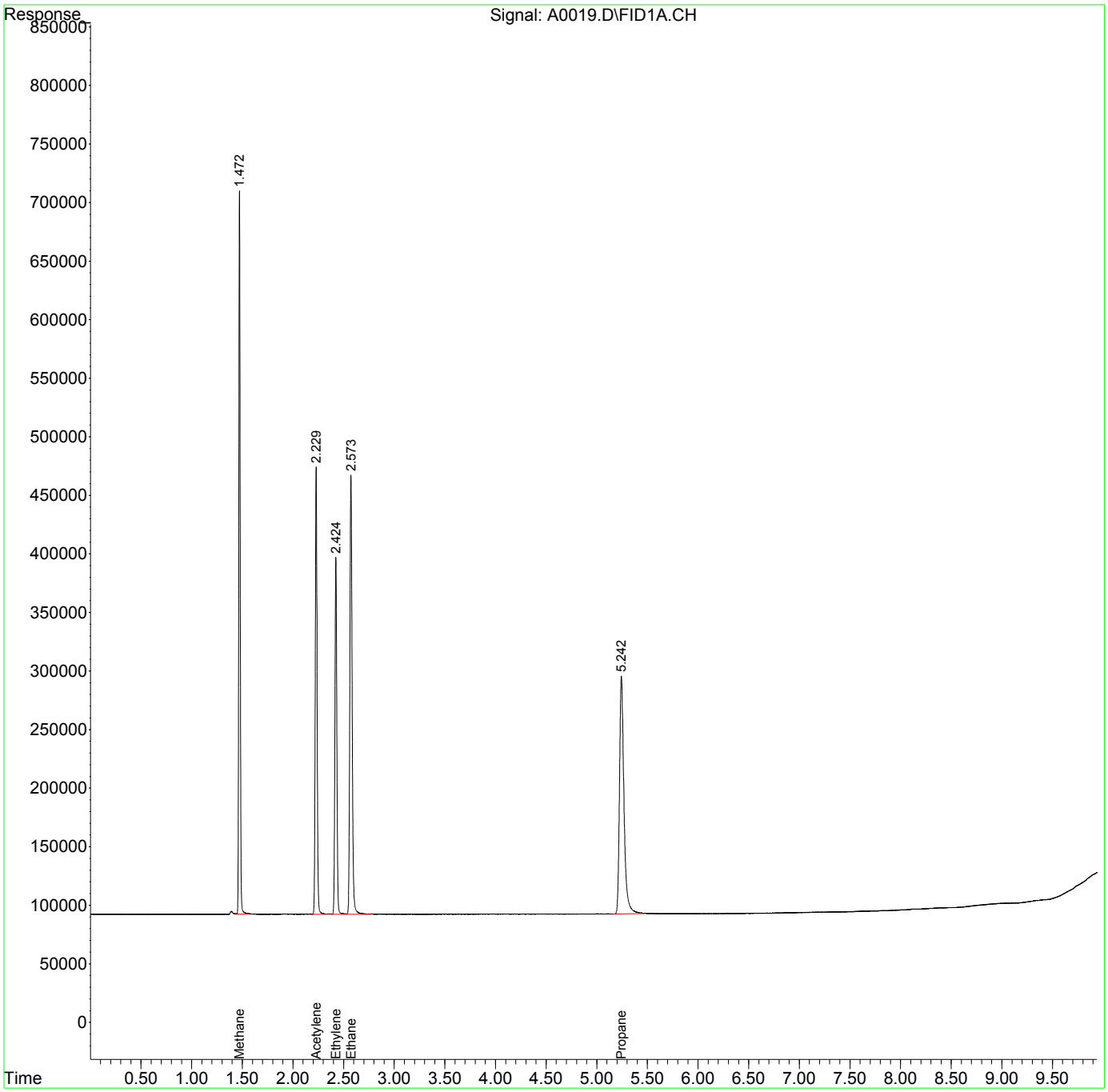
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\071223\
Data File : A0019.D
Signal(s) : FID1A.CH
Acq On : 12 Jul 2023 3:22 pm
Operator : F.NAEGLER
Sample : 100 PPB STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jul 12 15:33:27 2023
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Thu Jul 06 17:48:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



1st FJ 08/09/23
2nd FJ 08/09/23

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\071223\
Data File : A0020.D
Signal(s) : FID1A.CH
Acq On : 12 Jul 2023 3:36 pm
Operator : F.NAEGLER
Sample : 250 PPB STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jul 12 15:47:57 2023
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Thu Jul 06 17:48:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.470	13939995	~~51.079~~	ug/L	255.395
2)	Acetylene	2.227	11571204	~~110.017~~	ug/L	550.085
3)	Ethylene	2.422	9789604	~~30.200~~	ug/L	151.0
4)	Ethane	2.570	13848001	~~57.640~~	ug/L	288.2
5)	Propene	0.000	0	N.D.	ug/L	
6)	Propane	5.242	14875118	~~54.859~~	ug/L	274.295

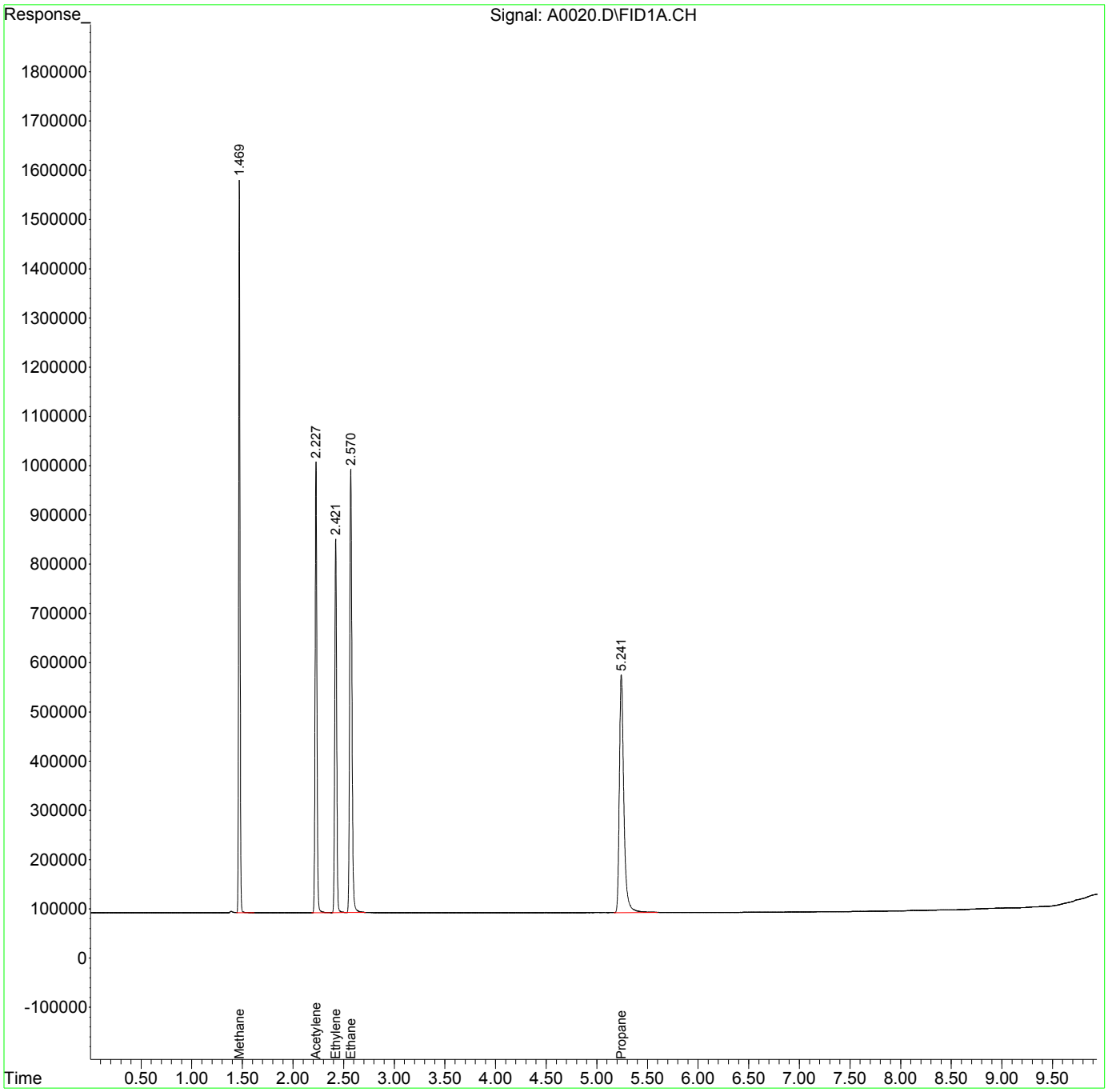
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\071223\
Data File : A0020.D
Signal(s) : FID1A.CH
Acq On : 12 Jul 2023 3:36 pm
Operator : F.NAEGLER
Sample : 250 PPB STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jul 12 15:47:57 2023
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Thu Jul 06 17:48:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



1st FJ 08/09/23
2nd FJ 08/09/23

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\071223\
Data File : A0021.D
Signal(s) : FID1A.CH
Acq On : 12 Jul 2023 3:50 pm
Operator : F.NAEGLER
Sample : 375 PPB STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jul 12 16:01:06 2023
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Thu Jul 06 17:48:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.468	21335655	~~78.179~~	ug/L	390.895
2)	Acetylene	2.225	17858975	~~169.800~~	ug/L	849
3)	Ethylene	2.420	15321398	~~47.264~~	ug/L	236.32
4)	Ethane	2.569	21342543	~~88.834~~	ug/L	444.17
5)	Propene	0.000	0	N.D.	ug/L	
6)	Propane	5.240	22937063	~~84.591~~	ug/L	422.955

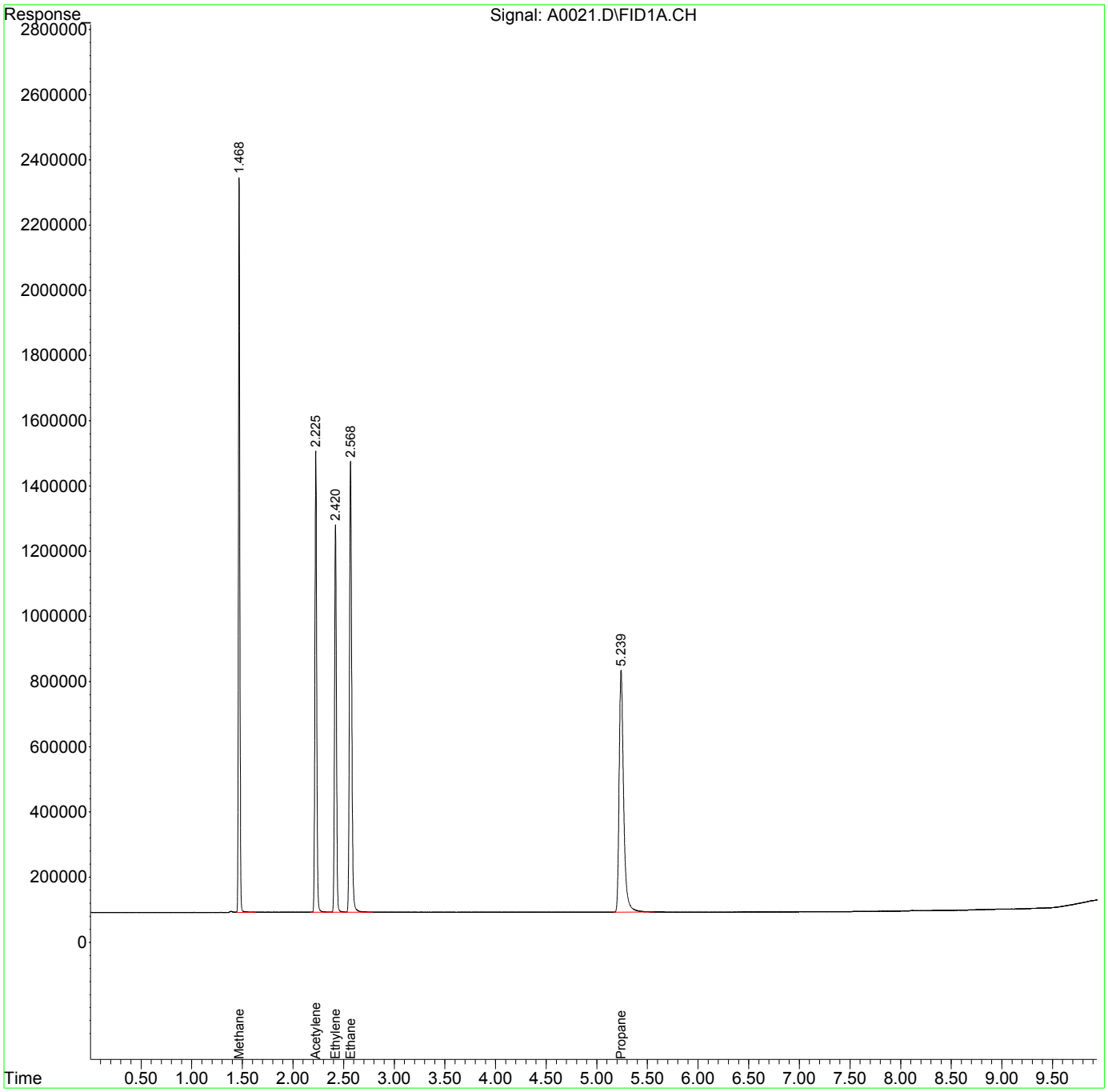
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\071223\
Data File : A0021.D
Signal(s) : FID1A.CH
Acq On : 12 Jul 2023 3:50 pm
Operator : F.NAEGLER
Sample : 375 PPB STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jul 12 16:01:06 2023
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Thu Jul 06 17:48:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



1st FJ 08/09/23
2nd FJ 08/09/23

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\071223\
Data File : A0022.D
Signal(s) : FID1A.CH
Acq On : 12 Jul 2023 4:04 pm
Operator : F.NAEGLER
Sample : 500 PPB STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jul 12 16:14:57 2023
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Thu Jul 06 17:48:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.468	28640737	~~104.946~~	ug/L	524.73
2)	Acetylene	2.225	23911440	~~227.346~~	ug/L	1136.73
3)	Ethylene	2.420	20095627	~~61.992~~	ug/L	309.96
4)	Ethane	2.568	28793422	~~119.847~~	ug/L	599.235
5)	Propene	0.000	0	N.D.	ug/L	
6)	Propane	5.238	31034890	~~114.455~~	ug/L	572.275

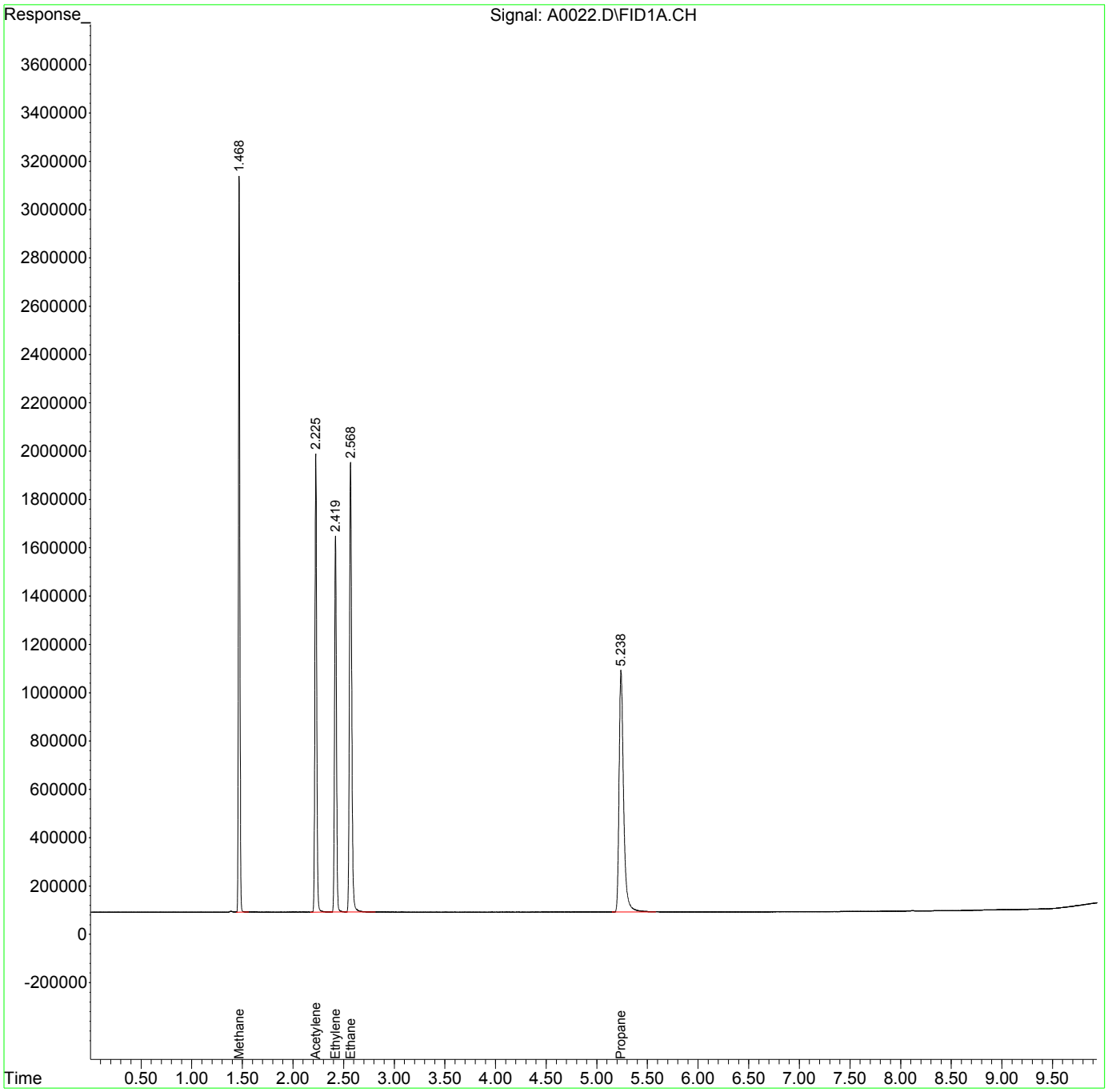
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\071223\
Data File : A0022.D
Signal(s) : FID1A.CH
Acq On : 12 Jul 2023 4:04 pm
Operator : F.NAEGLER
Sample : 500 PPB STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jul 12 16:14:57 2023
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Thu Jul 06 17:48:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



1st FJ 08/09/23
2nd FJ 08/09/23

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\GC-70\DATA\071223\
Data File : A0024.D
Signal(s) : FID1A.CH
Acq On : 12 Jul 2023 5:00 pm
Operator : F.NAEGLER
Sample : 250 PPB ICV
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Aug 01 17:05:56 2023
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK071223.M
Quant Title :
QLast Update : Tue Aug 01 16:49:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Methane	262.300	252.995	3.5	99	0.00
2	Acetylene	500.600	469.185	6.3	99	0.00
3	Ethylene	242.800	237.961	2.0	100	0.00
4	Ethane	260.300	242.610	6.8	99	0.00
6	Propane	254.500	234.753	7.8	98	0.00

Evaluate Continuing Calibration Report - Not Founds

5	Propene	250.000	0.000	100.0#	0	-4.26#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2401280
Project: Olean OU3 - 6 Month Sampling 2024 **Calibration Date:** 7/12/2023

Initial Calibration Summary
Dissolved Gases by GC/FID

Calibration ID: RC2300111 **Signal ID:** 1
Instrument ID: R-GC-70

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC2300111-01	5 PPB STD	I:\ACQUDATA\GC-70\DATA\071223\A0016.D	07/12/2023 14:40
02	RC2300111-02	10 PPB STD	I:\ACQUDATA\GC-70\DATA\071223\A0017.D	07/12/2023 14:54
03	RC2300111-03	50 PPB STD	I:\ACQUDATA\GC-70\DATA\071223\A0018.D	07/12/2023 15:08
04	RC2300111-04	100 PPB STD	I:\ACQUDATA\GC-70\DATA\071223\A0019.D	07/12/2023 15:22
05	RC2300111-05	250 PPB STD	I:\ACQUDATA\GC-70\DATA\071223\A0020.D	07/12/2023 15:36
06	RC2300111-06	375 PPB STD	I:\ACQUDATA\GC-70\DATA\071223\A0021.D	07/12/2023 15:50
07	RC2300111-07	500 PPB STD	I:\ACQUDATA\GC-70\DATA\071223\A0022.D	07/12/2023 16:04

Analyte

Ethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.200	5.802E4	02	10.400	6.097E4	03	52.100	5.816E4	04	104.100	5.569E4
05	260.300	5.32E4	06	390.500	5.465E4	07	520.700	5.53E4			

Ethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	4.900	3.894E4	02	9.700	4.308E4	03	48.600	4.302E4	04	97.100	4.045E4
05	242.800	4.032E4	06	364.300	4.206E4	07	485.700	4.137E4			

Methane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.200	8.253E4	02	10.500	6.899E4	03	52.500	6.062E4	04	104.900	5.612E4
05	262.300	5.315E4	06	393.500	5.422E4	07	524.600	5.46E4			

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2401280
Project: Olean OU3 - 6 Month Sampling 2024 **Calibration Date:** 7/12/2023

Initial Calibration Summary
Dissolved Gases by GC/FID

Calibration ID: RC2300111 **Signal ID:** 1
Instrument ID: R-GC-70

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Ethane	TRG	Average RF	% RSD	4.6	≤20	5.657E4	
Ethene	TRG	Average RF	% RSD	3.7	≤20	4.132E4	
Methane	TRG	Linear	R2	0.9996	≥	6.146E4	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2401280
Project: Olean OU3 - 6 Month Sampling 2024 **Calibration Date:** 7/12/2023

Initial Calibration Verification Summary
Dissolved Gases by GC/FID

Calibration ID: RC2300111 **Signal ID:** 1
Instrument ID: R-GC-70

#	Lab Code	Sample Name	File Location	Acquisition Date
08	RC2300111-08	250 PPB ICV	I:\ACQUDATA\GC-70\DATA\071223\A0024.D	07/12/2023 17:00

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Ethane	260	243	5.657E4	5.273E4	-6.796	±15	Average RF
Ethene	243	238	4.132E4	4.05E4	-1.993	±15	Average RF
Methane	262	253	6.146E4	5.264E4	-3.547	±15	Linear

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Analyzed:**	02/16/24 10:04

Continuing Calibration Verification (CCV) Summary
Dissolved Gases by GC/FID

Analysis Method:	RSK 175	**Calibration Date:**	7/12/2023
File ID:	I:\ACQUDATA\GC-70\DATA\021624\A0299.D\	**Calibration ID:**	RC2300111
Signal ID:	1	**Analysis Lot:**	832588
		Units:	ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Ethane	260	234	5.657E4	5.09E4	90.0	NA	85-115	Average RF
Ethene	243	214	4.132E4	3.639E4	88.1	NA	85-115	Average RF
Methane	262	249	6.146E4	5.188E4	95.0	-5.0	85-115	Linear

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Analyzed:**	02/16/24 14:23

Continuing Calibration Verification (CCV) Summary
Dissolved Gases by GC/FID

Analysis Method:	RSK 175	**Calibration Date:**	7/12/2023
File ID:	I:\ACQUDATA\GC-70\DATA\021624\A0313.D\	**Calibration ID:**	RC2300111
Signal ID:	1	**Analysis Lot:**	832588
		Units:	ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Ethane	260	244	5.657E4	5.293E4	93.6	NA	85-115	Average RF
Ethene	243	227	4.132E4	3.867E4	93.6	NA	85-115	Average RF
Methane	262	259	6.146E4	5.381E4	98.6	-1.4	85-115	Linear

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Analyzed:**	02/16/24 16:42

Continuing Calibration Verification (CCV) Summary
Dissolved Gases by GC/FID

Analysis Method:	RSK 175	**Calibration Date:**	7/12/2023
File ID:	I:\ACQUDATA\GC-70\DATA\021624\A0323.D\	**Calibration ID:**	RC2300111
Signal ID:	1	**Analysis Lot:**	832588
		Units:	ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Ethane	260	231	5.657E4	5.018E4	88.7	NA	85-115	Average RF
Ethene	243	219	4.132E4	3.718E4	90.0	NA	85-115	Average RF
Methane	262	247	6.146E4	5.141E4	94.2	-5.8	85-115	Linear

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Analyzed:**	02/23/24 10:37

Continuing Calibration Verification (CCV) Summary
Dissolved Gases by GC/FID

Analysis Method:	RSK 175	**Calibration Date:**	7/12/2023
File ID:	I:\ACQUDATA\GC-70\DATA\022324\A0326.D\	**Calibration ID:**	RC2300111
Signal ID:	1	**Analysis Lot:**	833176
		Units:	ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Ethane	260	254	5.657E4	5.527E4	97.7	NA	85-115	Average RF
Ethene	243	234	4.132E4	3.986E4	96.5	NA	85-115	Average RF
Methane	262	269	6.146E4	5.59E4	102	2.5	85-115	Linear

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Analyzed:**	02/23/24 14:21

Continuing Calibration Verification (CCV) Summary
Dissolved Gases by GC/FID

Analysis Method:	RSK 175	**Calibration Date:**	7/12/2023
File ID:	I:\ACQUDATA\GC-70\DATA\022324\A0339.D\	**Calibration ID:**	RC2300111
Signal ID:	1	**Analysis Lot:**	833176
		Units:	ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Ethane	260	253	5.657E4	5.497E4	97.2	NA	85-115	Average RF
Ethene	243	236	4.132E4	4.011E4	97.1	NA	85-115	Average RF
Methane	262	270	6.146E4	5.61E4	103	2.9	85-115	Linear

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041

Analysis Run Log
Dissolved Gases by GC/FID

Analysis Method: **Analysis Lot:**832588
Instrument ID:R-GC-70

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
	ZZZZZZZ	ZZZZZZZ			
I:\ACQUDATA\GC-70\DATA\021624\A0299.D\	Continuing Calibration Verification	RQ2401729-01	2/16/2024	10:04:00	
I:\ACQUDATA\GC-70\DATA\021624\A0300.D\	Method Blank	RQ2401729-02	2/16/2024	10:19:00	
I:\ACQUDATA\GC-70\DATA\021624\A0301.D\	Lab Control Sample	RQ2401729-03	2/16/2024	10:36:00	
I:\ACQUDATA\GC-70\DATA\021624\A0302.D\	Duplicate Lab Control Sample	RQ2401729-04	2/16/2024	10:59:00	
I:\ACQUDATA\GC-70\DATA\021624\A0303.D\	Method Detection Limit Verification	RQ2401729-05	2/16/2024	11:17:00	
I:\ACQUDATA\GC-70\DATA\021624\A0305.D\	ZZZZZZZ	ZZZZZZZ	2/16/2024	12:30:00	
I:\ACQUDATA\GC-70\DATA\021624\A0306.D\	ZZZZZZZ	ZZZZZZZ	2/16/2024	12:44:00	
I:\ACQUDATA\GC-70\DATA\021624\A0307.D\	ZZZZZZZ	ZZZZZZZ	2/16/2024	12:58:00	
I:\ACQUDATA\GC-70\DATA\021624\A0308.D\	ZZZZZZZ	ZZZZZZZ	2/16/2024	13:13:00	
I:\ACQUDATA\GC-70\DATA\021624\A0309.D\	ZZZZZZZ	ZZZZZZZ	2/16/2024	13:27:00	
I:\ACQUDATA\GC-70\DATA\021624\A0310.D\	OLN-RU009-F007	R2401280-008	2/16/2024	13:41:00	
I:\ACQUDATA\GC-70\DATA\021624\A0311.D\	OLN-RU028-F007	R2401280-009	2/16/2024	13:55:00	
I:\ACQUDATA\GC-70\DATA\021624\A0312.D\	OLN-RU011-F007	R2401280-010	2/16/2024	14:09:00	
I:\ACQUDATA\GC-70\DATA\021624\A0313.D\	Continuing Calibration Verification	RQ2401729-06	2/16/2024	14:23:00	
I:\ACQUDATA\GC-70\DATA\021624\A0314.D\	OLN-RU27A-F007	R2401280-011	2/16/2024	14:36:00	
I:\ACQUDATA\GC-70\DATA\021624\A0315.D\	OLN-FB002-B007	R2401280-012	2/16/2024	14:50:00	
I:\ACQUDATA\GC-70\DATA\021624\A0316.D\	OLN-RU015-F007	R2401280-013	2/16/2024	15:04:00	
I:\ACQUDATA\GC-70\DATA\021624\A0317.D\	OLN-RU016-F007	R2401280-014	2/16/2024	15:19:00	
I:\ACQUDATA\GC-70\DATA\021624\A0318.D\	OLN-FD001-D007	R2401280-015	2/16/2024	15:32:00	
I:\ACQUDATA\GC-70\DATA\021624\A0320.D\	OLN-RU020-F007	R2401280-016	2/16/2024	16:00:00	
I:\ACQUDATA\GC-70\DATA\021624\A0321.D\	OLN-RU019-F007	R2401280-017	2/16/2024	16:14:00	
I:\ACQUDATA\GC-70\DATA\021624\A0322.D\	OLN-RU019-F007	R2401280-017	2/16/2024	16:28:00	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041

Analysis Run Log
Dissolved Gases by GC/FID

Analysis Method: **Analysis Lot:**832588
Instrument ID:R-GC-70

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\GC-70\DATA\021624 \A0323.D\	Continuing Calibration Verification	RQ2401729-07	2/16/2024	16:42:00	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041

Analysis Run Log
Dissolved Gases by GC/FID

Analysis Method: RSK 175 **Analysis Lot:**833176
Instrument ID:R-GC-70

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\GC-70\DATA\022324\A0326.D\	Continuing Calibration Verification	RQ2401978-01	2/23/2024	10:37:00	
I:\ACQUDATA\GC-70\DATA\022324\A0327.D\	Method Blank	RQ2401978-02	2/23/2024	10:57:00	
I:\ACQUDATA\GC-70\DATA\022324\A0328.D\	Lab Control Sample	RQ2401978-03	2/23/2024	11:11:00	
I:\ACQUDATA\GC-70\DATA\022324\A0329.D\	OLN-RU021-F007	R2401280-018	2/23/2024	11:27:00	
I:\ACQUDATA\GC-70\DATA\022324\A0330.D\	OLN-RU021-F007	R2401280-018	2/23/2024	11:41:00	
I:\ACQUDATA\GC-70\DATA\022324\A0331.D\	OLN-RU021-F007 MS	RQ2401978-04	2/23/2024	11:56:00	
I:\ACQUDATA\GC-70\DATA\022324\A0332.D\	OLN-RU021-F007 DMS	RQ2401978-05	2/23/2024	12:10:00	
I:\ACQUDATA\GC-70\DATA\022324\A0333.D\	OLN-UA002-F007	R2401280-019	2/23/2024	12:46:00	
I:\ACQUDATA\GC-70\DATA\022324\A0334.D\	OLN-EB001-E007	R2401280-020	2/23/2024	13:00:00	
I:\ACQUDATA\GC-70\DATA\022324\A0335.D\	OLN-UA003-F007	R2401280-022	2/23/2024	13:13:00	
I:\ACQUDATA\GC-70\DATA\022324\A0336.D\	OLN-RU008-F007	R2401280-023	2/23/2024	13:37:00	
I:\ACQUDATA\GC-70\DATA\022324\A0337.D\	OLN-FB003-B007	R2401280-024	2/23/2024	13:50:00	
I:\ACQUDATA\GC-70\DATA\022324\A0338.D\	OLN-FD002-D007	R2401280-025	2/23/2024	14:05:00	
I:\ACQUDATA\GC-70\DATA\022324\A0339.D\	Continuing Calibration Verification	RQ2401978-06	2/23/2024	14:21:00	

Analysis: RSK.175 Analyst: F. Nagle Run Method: RSK.M

Date: 2/16/24 Data Path: J:\Acqudata\70 \Data\021624 RSK071223.M

Instr. GC-70 LIMS Run#: 832588

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
	BLK								A0297	Y	
	BLK								98	Y	
	CCV								99	Y	
	MBLK								A0300	Y	
	LCS								01	Y	
	LCSD								02	Y	
	R2400835-004	1.0	5mL of 100 ppb std	—	2722	2	—	—	03	Y	MDL = 5 ppb
	R2400916-006	20.0	5mL	—	8076	4	1	<2	04	(N)	Rpt 1/25
	-006	2.5	40mL	—			1	<2	05	Y	Ethene only
	-008	1.0		—			1	<2	06	Y	
	-010	1.0		—			1	<2	07	Y	
	-020	1.0		—			1	<2	08	Y	
	-022	1.0		—			1	<2	09	Y	
	R2401280-008	1.0		—	979	4	1	<2	10	Y	
	-009	1.0		—			1	<2	11	Y	
	-010	1.0		—			1	<2	12	Y	
	CCV								13	Y	
	R2401280-011	20.0	5mL	—	979	4	1	<2	14	Y	
	-012	1.0		—			1	<2	15	Y	
	-013	1.0		—			1	<2	16	Y	
	-014	1.0		—			1	<2	17	Y	
	-015	1.0		—			1	<2	18	Y	
	-016	20.0	5mL	—			1	<2	19	(N)	Rpt 1/10
	-016	10.0	10mL	—			1	<2	20	Y	
	-017	2.0	50mL	—			1	<2	21	(Y)	Rpt 1/20
	-017	20.0	5mL	—			1	<2	22	Y	Dil
	CCV								23		

FU 2/16/24

All samples = _____mL + _____uL Surrogate _____mL purged

Primary : 216647 - 100mL/42.5mL (CCV)
Primary :
Primary :
Primary :

Secondary : 216648 - 5mL/42.5mL
Secondary :
Secondary : (LCS)
Secondary : (LCSD)

Surrogate — : —

Analysis: RSK.175 Analyst: F.Nagler Run Method: RSK.M

Date: 2/23/24 Data Path: J:\Acqudata\70 \Data\022324 RSK071223.M

Instr. GC-70 LIMS Run#: 833176

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
	BLK								A0324	Y	
	BLK								25	Y	
	CCV								26	Y	
	MBLK								27	Y	
	LCS								28	Y	
	R2401280-018	20.0	(25/50mL)	—	979	4	1	<2	29	(Y)	Rpt 1/50mL
	-018	50.0	→ 40mL	—			1	<2	30	Y	DL
	-018MS	50.0	→ 40mL	—			2	<2	31	Y	
	-018MSD	50.0	→ 40mL	—			3	<2	32	Y	
	-019	1.0		—			1	<2	33	Y	
	-020	1.0		—			1	<2	34	Y	
	-022	1.0		—			1	<2	35	Y	
	-023	1.0		—			1	<2	36	Y	
	-024	1.0		—			1	<2	37	Y	
	-025	1.0		—			1	<2	38	Y	
	CCV								39	Y	

FN 2/23/24

All samples = _____mL + _____uL Surrogate _____mL purged

Primary : 216647 - 100mL/42.5mL (CCV)
Primary :
Primary :
Primary :

Secondary : 216648 - 50mL/42.5mL (LCS)
Secondary : - 100mL/42.5mL (~~LCS~~) (SPK)
Secondary :
Secondary :

Surrogate — :

FN 2/23/24 (~~LCSD~~)

Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 11:36
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU009-F007	**Units:**	mg/L
Lab Code:	R2401280-008	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	02/20/24 16:02	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	02/20/24 16:02	
Propionic Acid	**1.5 J**	2.0	1.1	1	02/20/24 16:02	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 12:27
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU028-F007	**Units:**	mg/L
Lab Code:	R2401280-009	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	02/20/24 19:11	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	02/20/24 19:11	
Propionic Acid	**1.8 J**	2.0	1.1	1	02/20/24 19:11	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 13:32
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU011-F007	**Units:**	mg/L
Lab Code:	R2401280-010	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0	U	1.0	0.56	1	02/20/24 19:56	
Butanoic Acid (Butyric Acid)	10	U	10	5.0	1	02/20/24 19:56	
Propionic Acid	2.0	U	2.0	1.1	1	02/20/24 19:56	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 14:41
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU27A-F007	**Units:**	mg/L
Lab Code:	R2401280-011	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**210**	2.0	1.2	2	02/21/24 19:44	
Butanoic Acid (Butyric Acid)	20 U	20	10	2	02/21/24 19:44	
Propionic Acid	**74**	4.0	2.2	2	02/21/24 19:44	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 15:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FB002-B007	**Units:**	mg/L
Lab Code:	R2401280-012	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	02/20/24 21:31	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	02/20/24 21:31	
Propionic Acid	2.0 U	2.0	1.1	1	02/20/24 21:31	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 15:45
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU015-F007	**Units:**	mg/L
Lab Code:	R2401280-013	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	02/20/24 23:07	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	02/20/24 23:07	
Propionic Acid	2.0 U	2.0	1.1	1	02/20/24 23:07	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 17:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU016-F007	**Units:**	mg/L
Lab Code:	R2401280-014	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	02/21/24 20:31	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	02/21/24 20:31	
Propionic Acid	2.0 U	2.0	1.1	1	02/21/24 20:31	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 22:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FD001-D007	**Units:**	mg/L
Lab Code:	R2401280-015	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0	U	1.0	0.56	1	02/21/24 22:06	
Butanoic Acid (Butyric Acid)	10	U	10	5.0	1	02/21/24 22:06	
Propionic Acid	2.0	U	2.0	1.1	1	02/21/24 22:06	

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dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 12:25
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU020-F007	**Units:**	mg/L
Lab Code:	R2401280-016	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**1.5**	1.0	0.56	1	02/21/24 22:53	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	02/21/24 22:53	
Propionic Acid	2.0 U	2.0	1.1	1	02/21/24 22:53	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 13:30
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU019-F007	**Units:**	mg/L
Lab Code:	R2401280-017	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**120**	1.0	0.56	1	02/21/24 23:40	
Butanoic Acid (Butyric Acid)	**67**	10	5.0	1	02/21/24 23:40	
Propionic Acid	**45**	2.0	1.1	1	02/21/24 23:40	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 15:38
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU021-F007	**Units:**	mg/L
Lab Code:	R2401280-018	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**89**	1.0	0.56	1	02/22/24 00:28	
Butanoic Acid (Butyric Acid)	**8.2 J**	10	5.0	1	02/22/24 00:28	
Propionic Acid	**17**	2.0	1.1	1	02/22/24 00:28	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 17:03
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-UA002-F007	**Units:**	mg/L
Lab Code:	R2401280-019	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	02/22/24 03:37	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	02/22/24 03:37	
Propionic Acid	2.0 U	2.0	1.1	1	02/22/24 03:37	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 17:30
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-EB001-E007	**Units:**	mg/L
Lab Code:	R2401280-020	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	02/22/24 04:24	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	02/22/24 04:24	
Propionic Acid	2.0 U	2.0	1.1	1	02/22/24 04:24	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/14/24 09:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-UA003-F007	**Units:**	mg/L
Lab Code:	R2401280-022	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**2.7**	1.0	0.56	1	02/22/24 05:11	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	02/22/24 05:11	
Propionic Acid	2.0 U	2.0	1.1	1	02/22/24 05:11	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/14/24 08:31
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU008-F007	**Units:**	mg/L
Lab Code:	R2401280-023	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	02/22/24 06:45	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	02/22/24 06:45	
Propionic Acid	2.0 U	2.0	1.1	1	02/22/24 06:45	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/14/24 09:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FB003-B007	**Units:**	mg/L
Lab Code:	R2401280-024	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	02/22/24 07:32	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	02/22/24 07:32	
Propionic Acid	2.0 U	2.0	1.1	1	02/22/24 07:32	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/14/24 22:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FD002-D007	**Units:**	mg/L
Lab Code:	R2401280-025	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

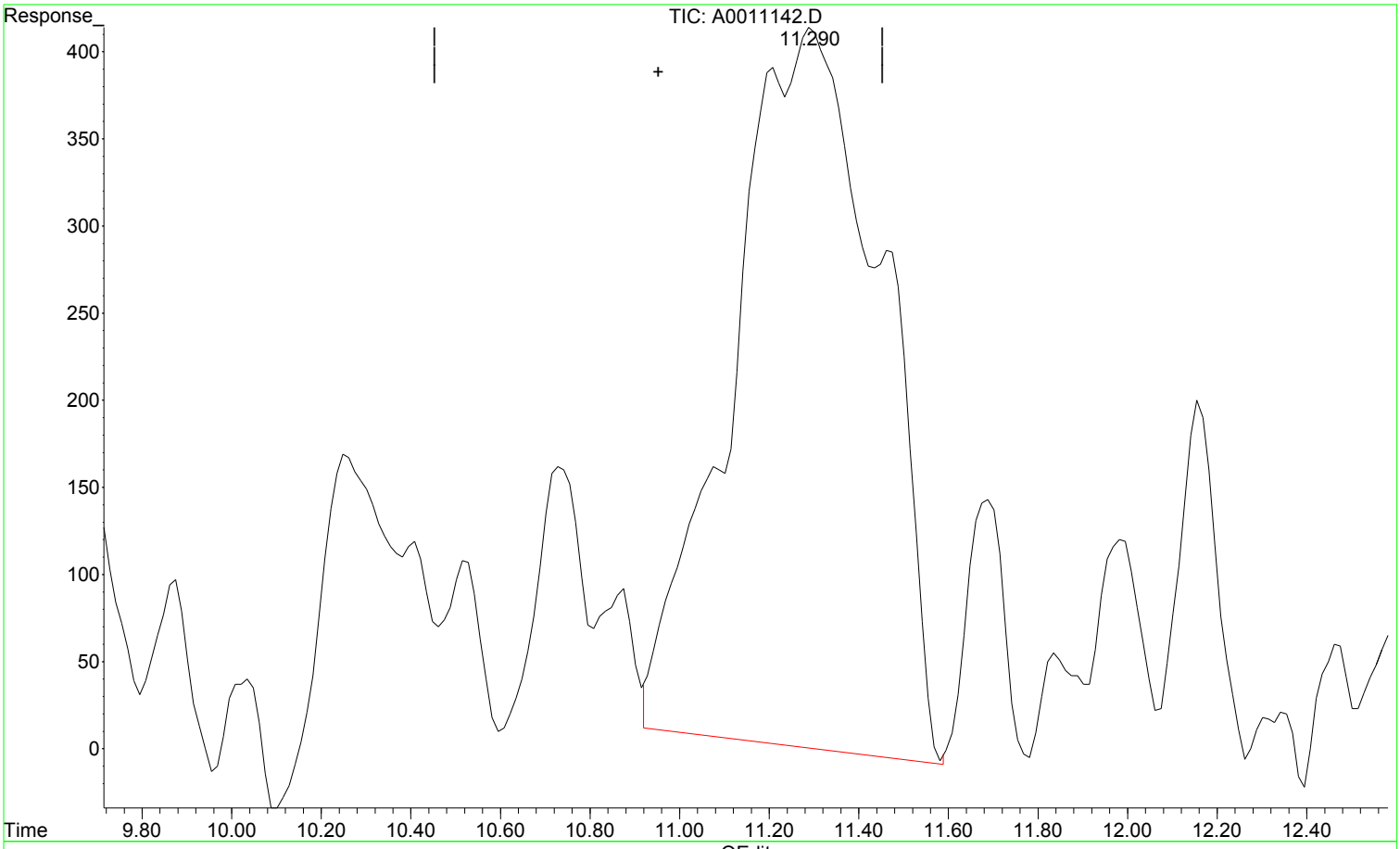
Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	02/22/24 08:20	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	02/22/24 08:20	
Propionic Acid	2.0 U	2.0	1.1	1	02/22/24 08:20	

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011142.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 16:02:44
Operator : EDeGray
Sample : R2401280-008
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:31 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

11.290min 1.534 ppm m

response 95014

Manual Integration:

After

Poor integration.

02/21/24

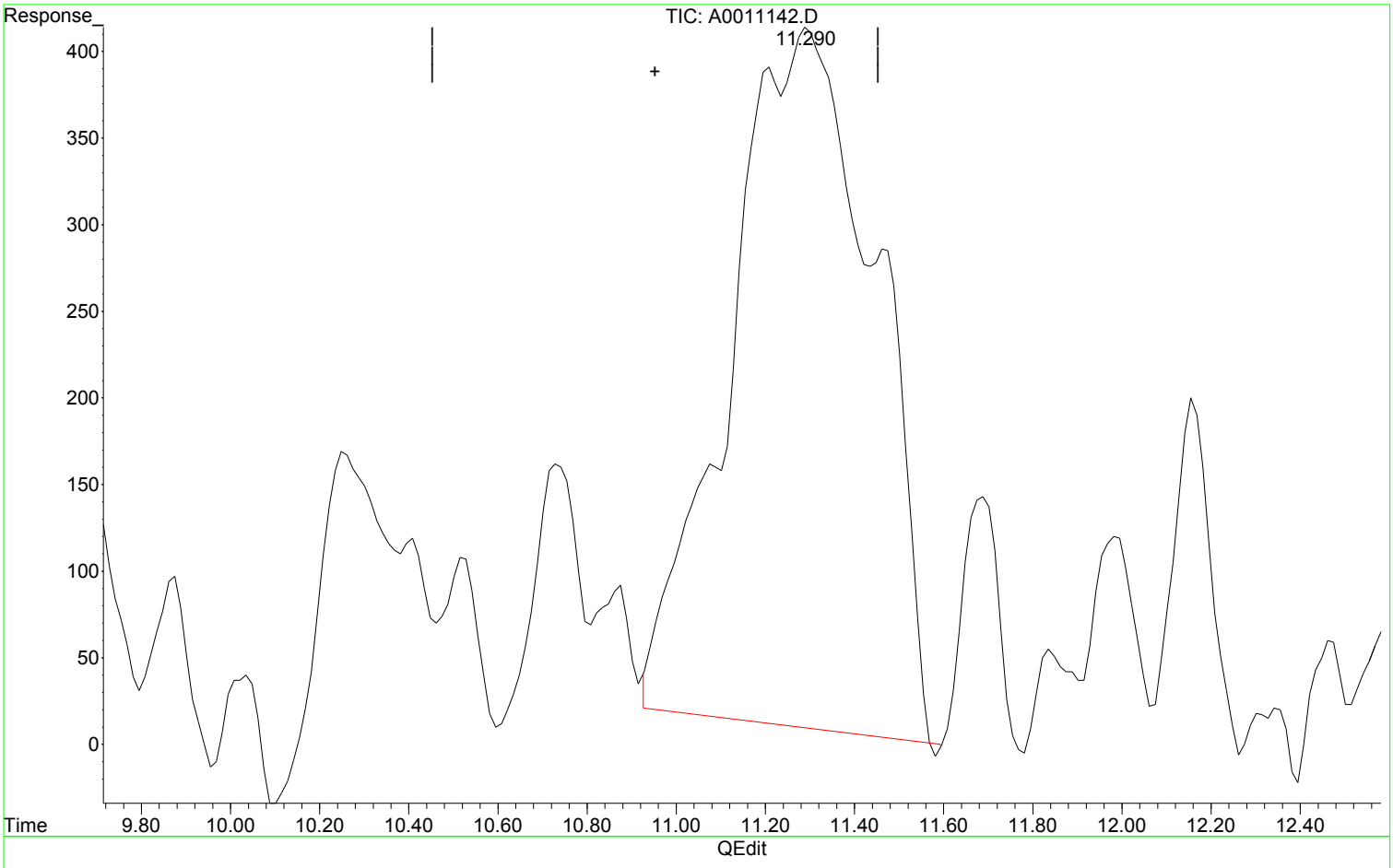
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011142.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 16:02:44
Operator : EDeGray
Sample : R2401280-008
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:31 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

11.298min 1.474 ppm

response 91320

Manual Integration:

Before

02/21/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011142.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 16:02:44
Operator : EDeGray
Sample : R2401280-008
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:31 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	0.000	0	N.D.	ppm	
5) T	Propionic Acid	11.290f	95014	1.534	ppm	m
6) T	Butyric Acid	0.000	0	N.D.	ppm	d

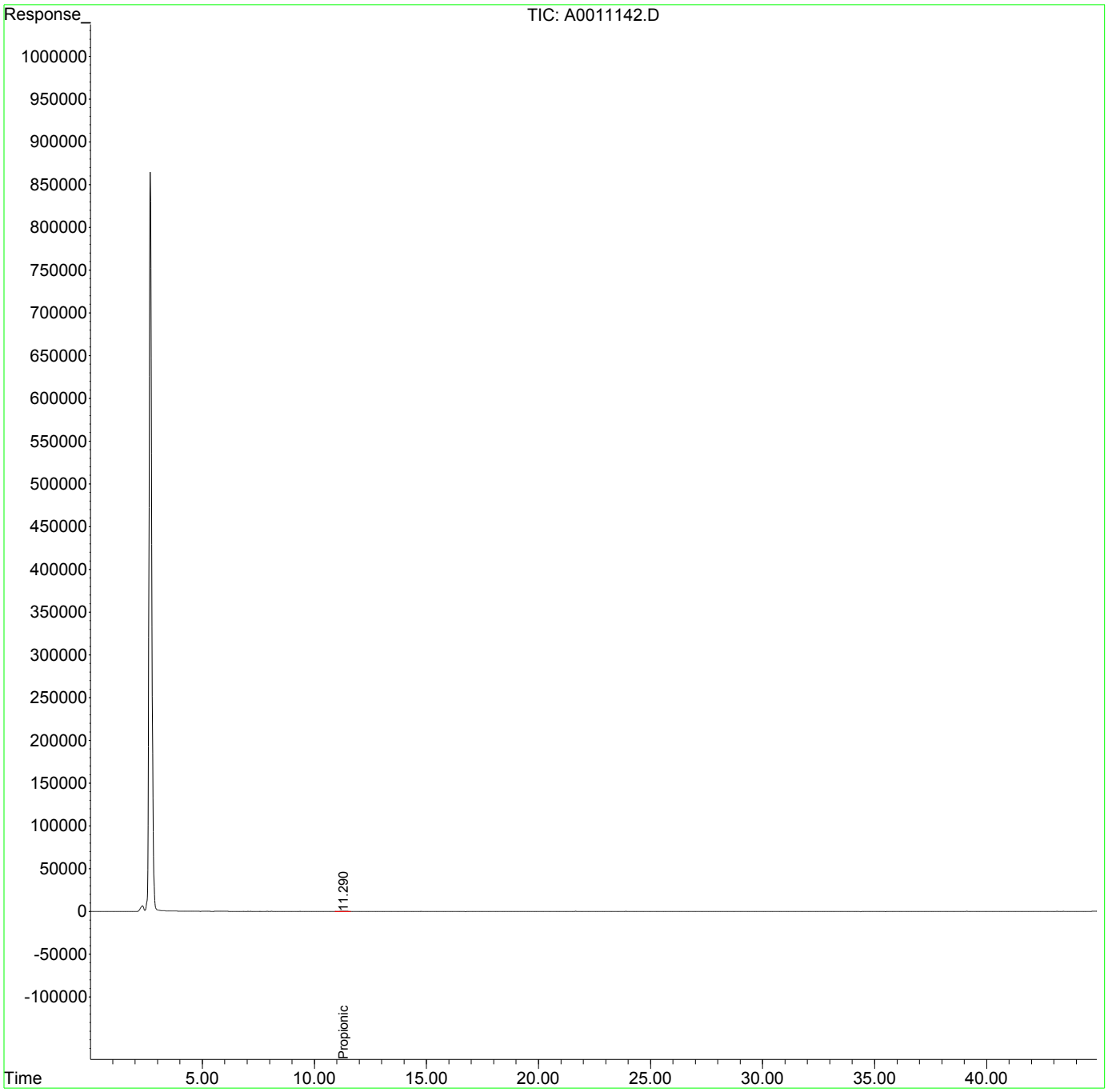
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011142.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 16:02:44
Operator : EDeGray
Sample : R2401280-008
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:31 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

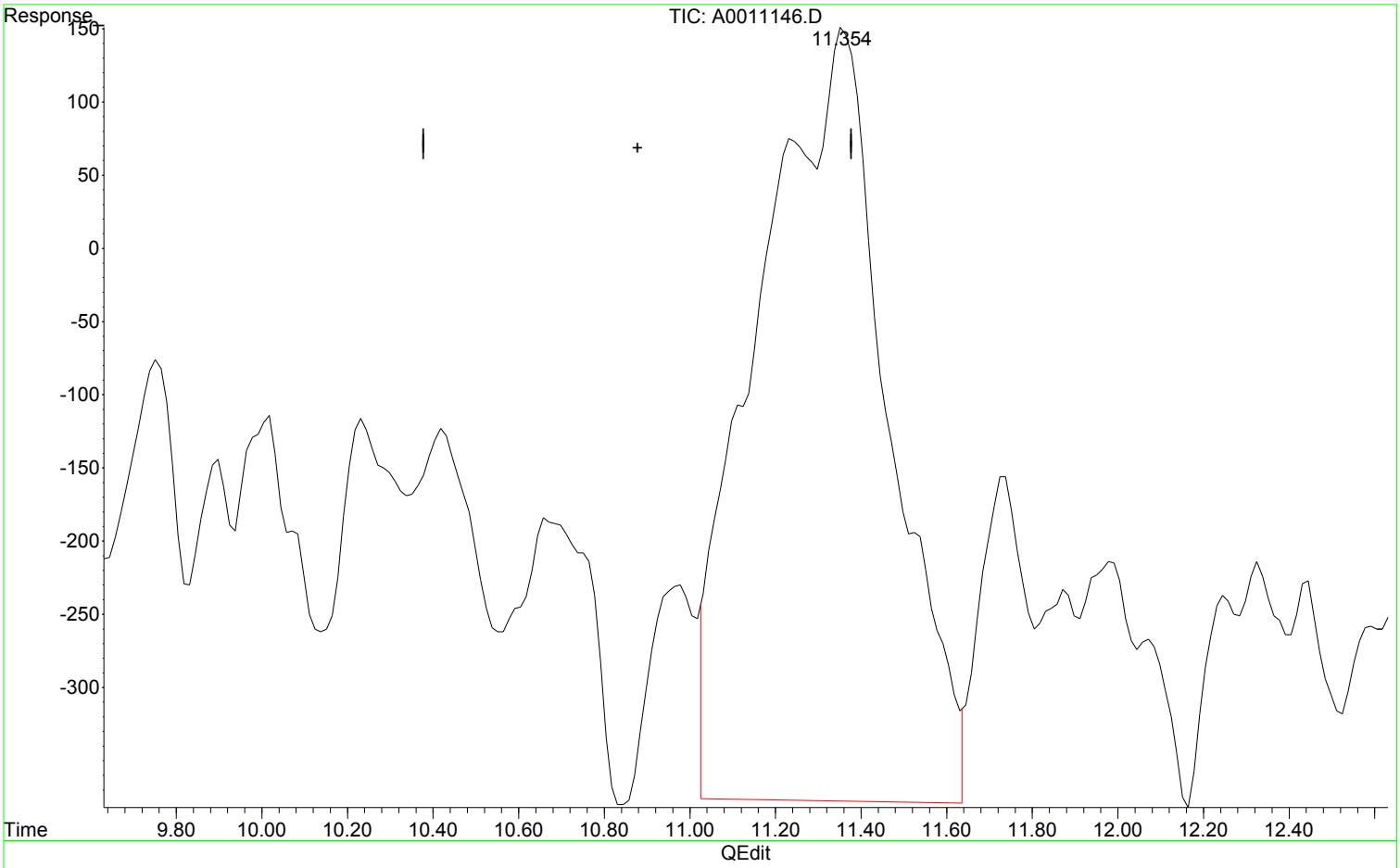


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011146.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 19:11:23
Operator : EDeGray
Sample : R2401280-009
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:20:40 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:20:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

11.354min 1.822 ppm m

response 112825

Manual Integration:

After

Poor integration.

02/21/24

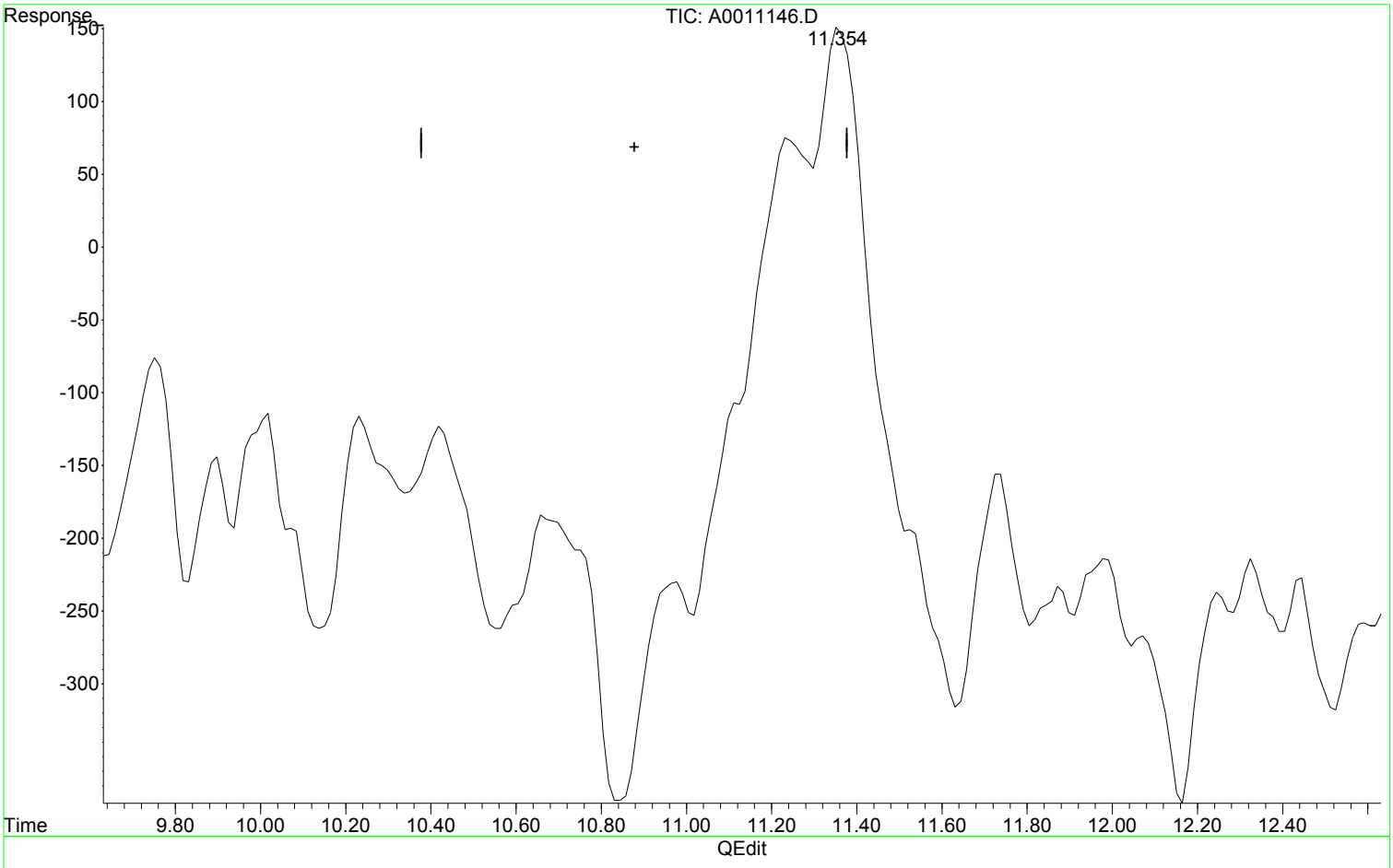
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011146.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 19:11:23
Operator : EDeGray
Sample : R2401280-009
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:20:40 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:20:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

11.362min 2.046 ppm

response 126717

Manual Integration:

Before

02/21/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011146.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 19:11:23
Operator : EDeGray
Sample : R2401280-009
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:20:40 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:20:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	0.000	0	N.D.	ppm	
5) T	Propionic Acid	11.354f	112825	1.822	ppm	m
6) T	Butyric Acid	0.000	0	N.D.	ppm	

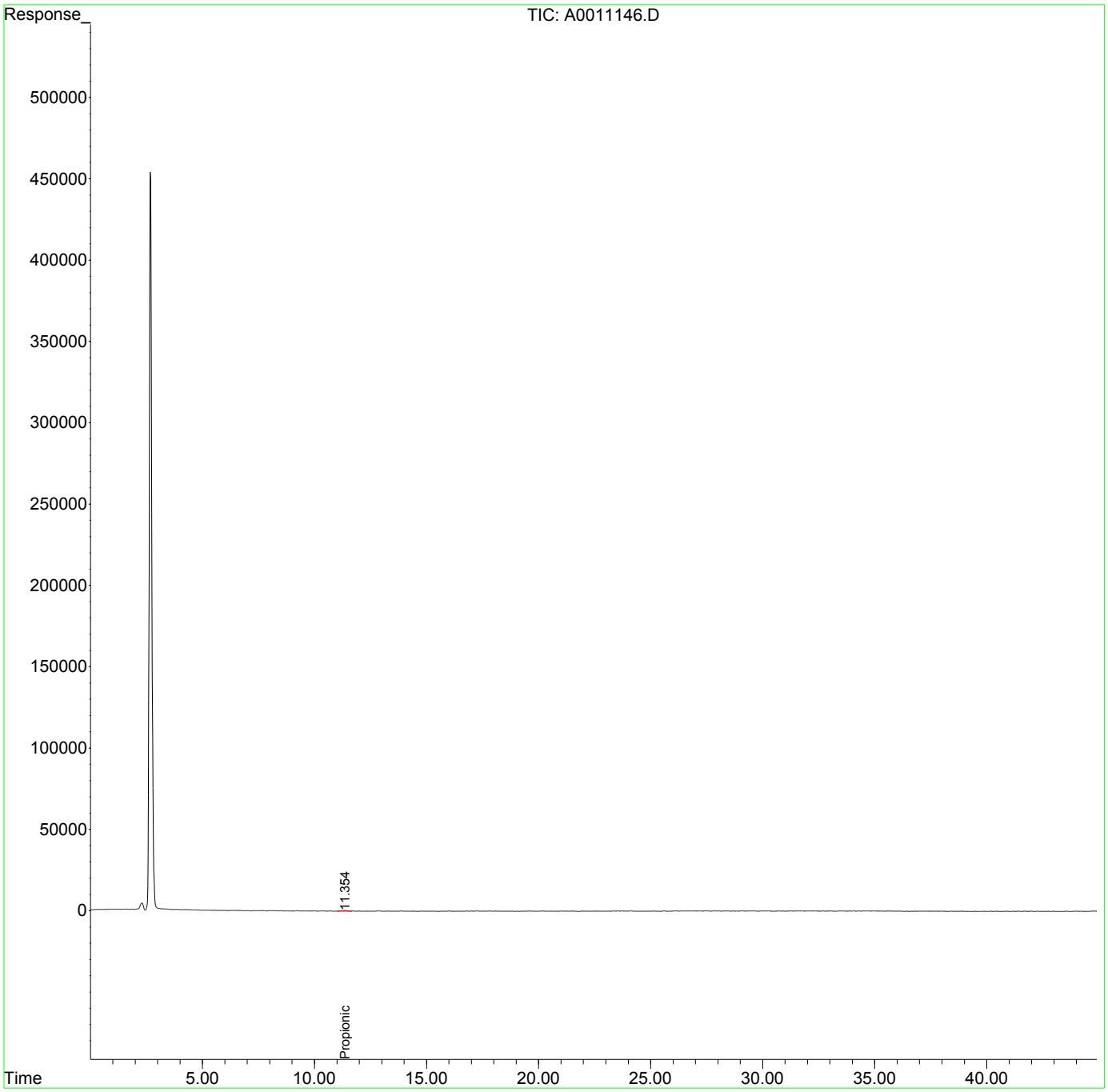
(f)=RT Delta > 1/2 Window (m)=manual int.

1st EDG 02/21/24
2nd AM 02/21/24

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011146.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 19:11:23
Operator : EDeGray
Sample : R2401280-009
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:20:40 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:20:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011147.D Wrong date/time, EDG 2/21/24
Signal(s) : dad1A.ch
Acq On : ~~31 Dec 2000, 03:48:19~~ 19:56:27 02/20/24
Operator : EDeGray
Sample : R2401280-010
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:20:43 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:20:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	0.000	0	N.D.	ppm	
5) T	Propionic Acid	0.000	0	N.D.	ppm	d
6) T	Butyric Acid	0.000	0	N.D.	ppm	

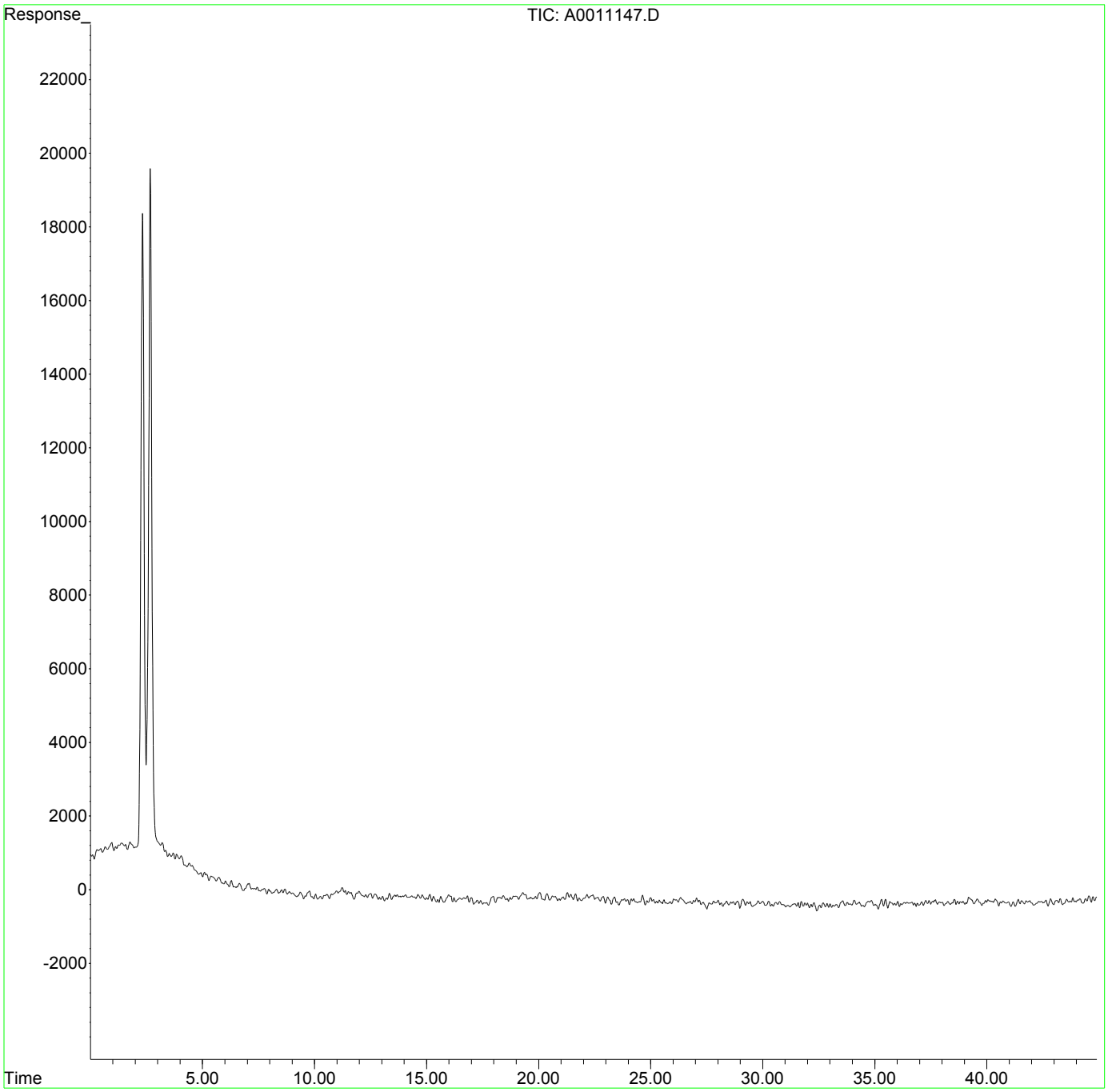
(f)=RT Delta > 1/2 Window (m)=manual int.

1st EDG 02/21/24
2nd AM 02/21/24

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011147.D
Signal(s) : dad1A.ch
Acq On : 31-Dec-2000, 03:48:19
Operator : EDeGray
Sample : R2401280-010
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:20:43 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:20:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



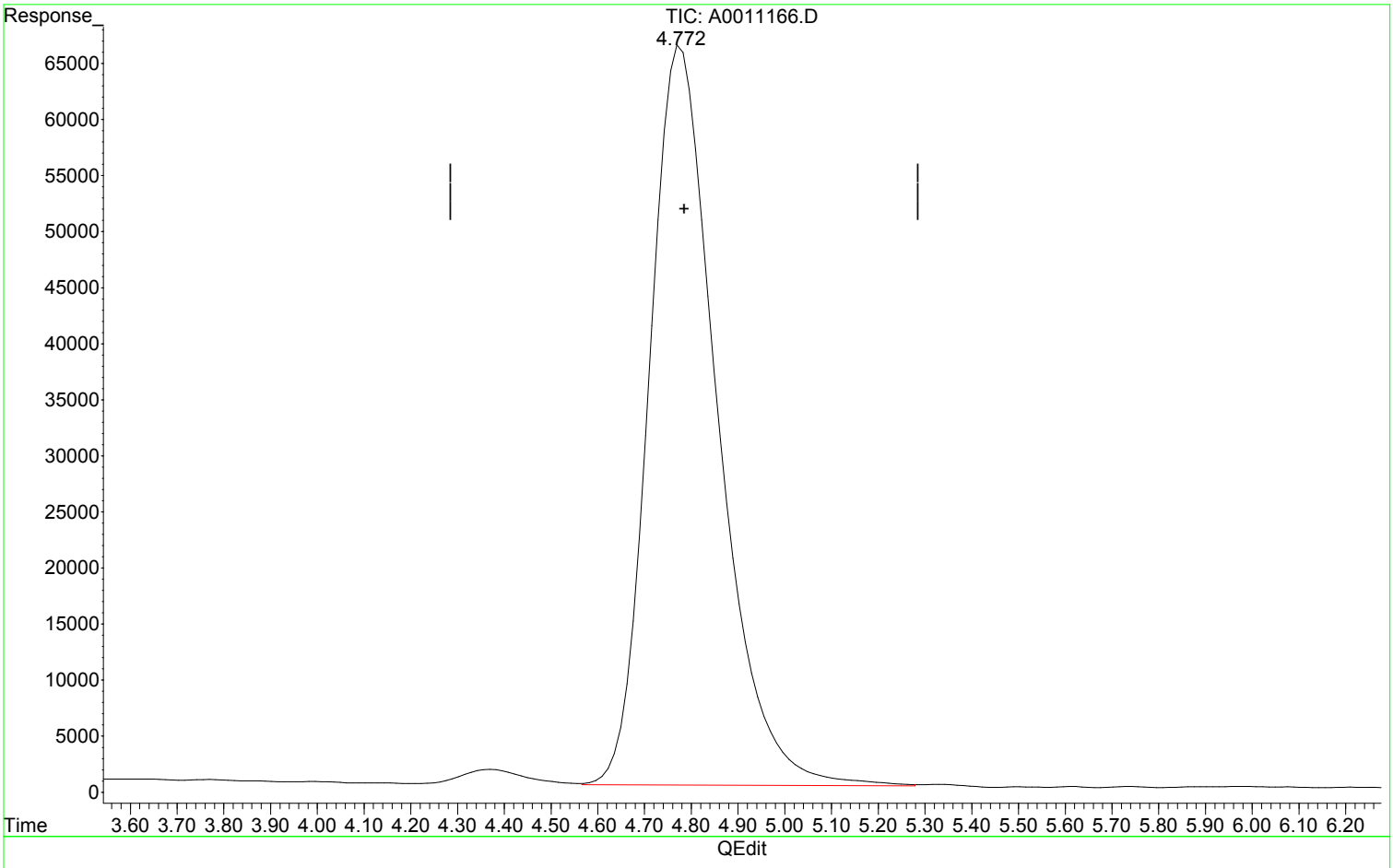
1st 02/23/24
2nd AF 02/27/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011166.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 19:44:55
Operator : KProcopio
Sample : R2401280-011|2
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:34 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.772min 105.799 ppm m

response 6692264

Manual Integration:

After

Poor integration.

02/23/24

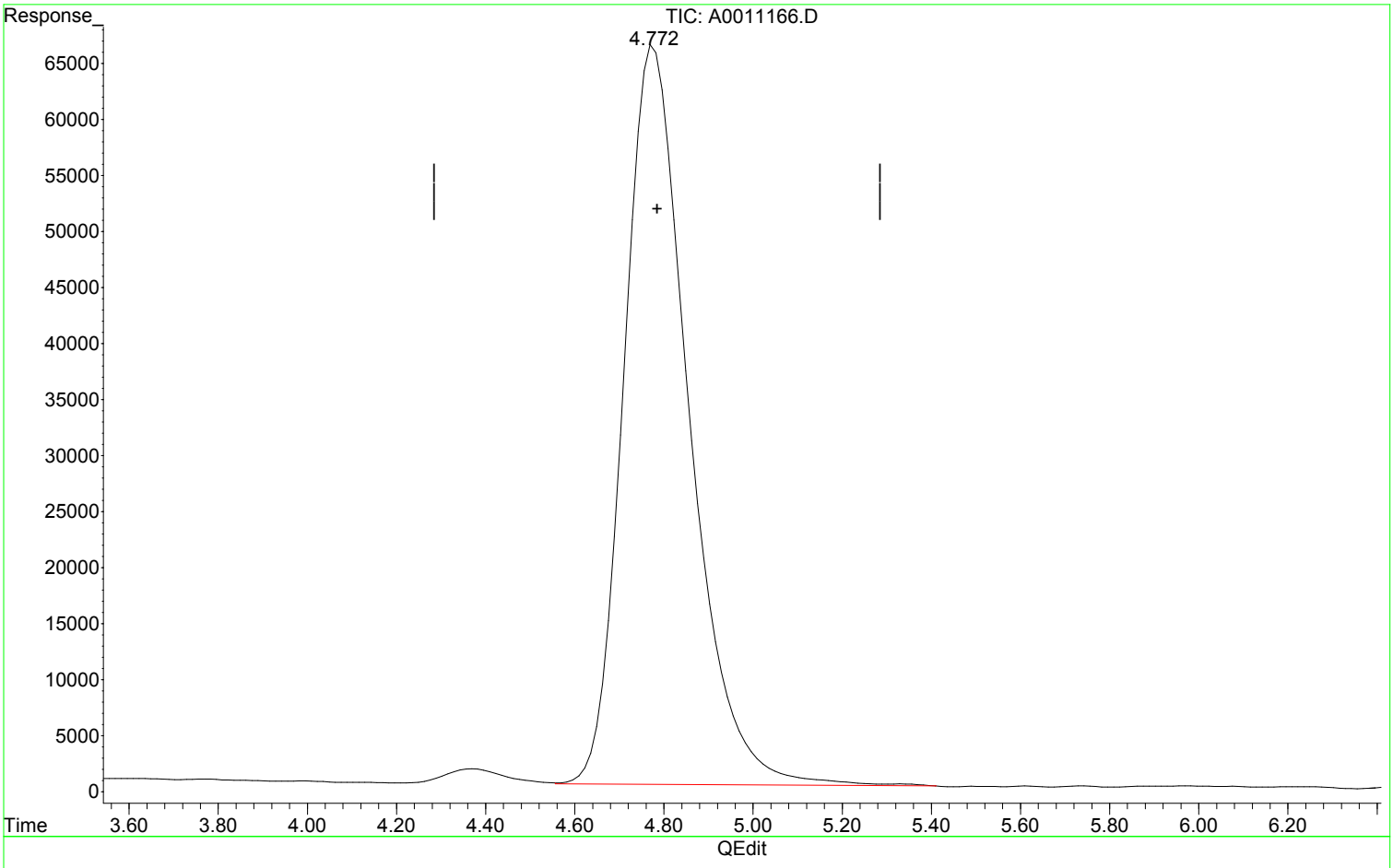
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011166.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 19:44:55
Operator : KProcopio
Sample : R2401280-011|2
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:34 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.780min 105.818 ppm

response 6693474

Manual Integration:

Before

02/23/24

(+) = Expected Retention Time

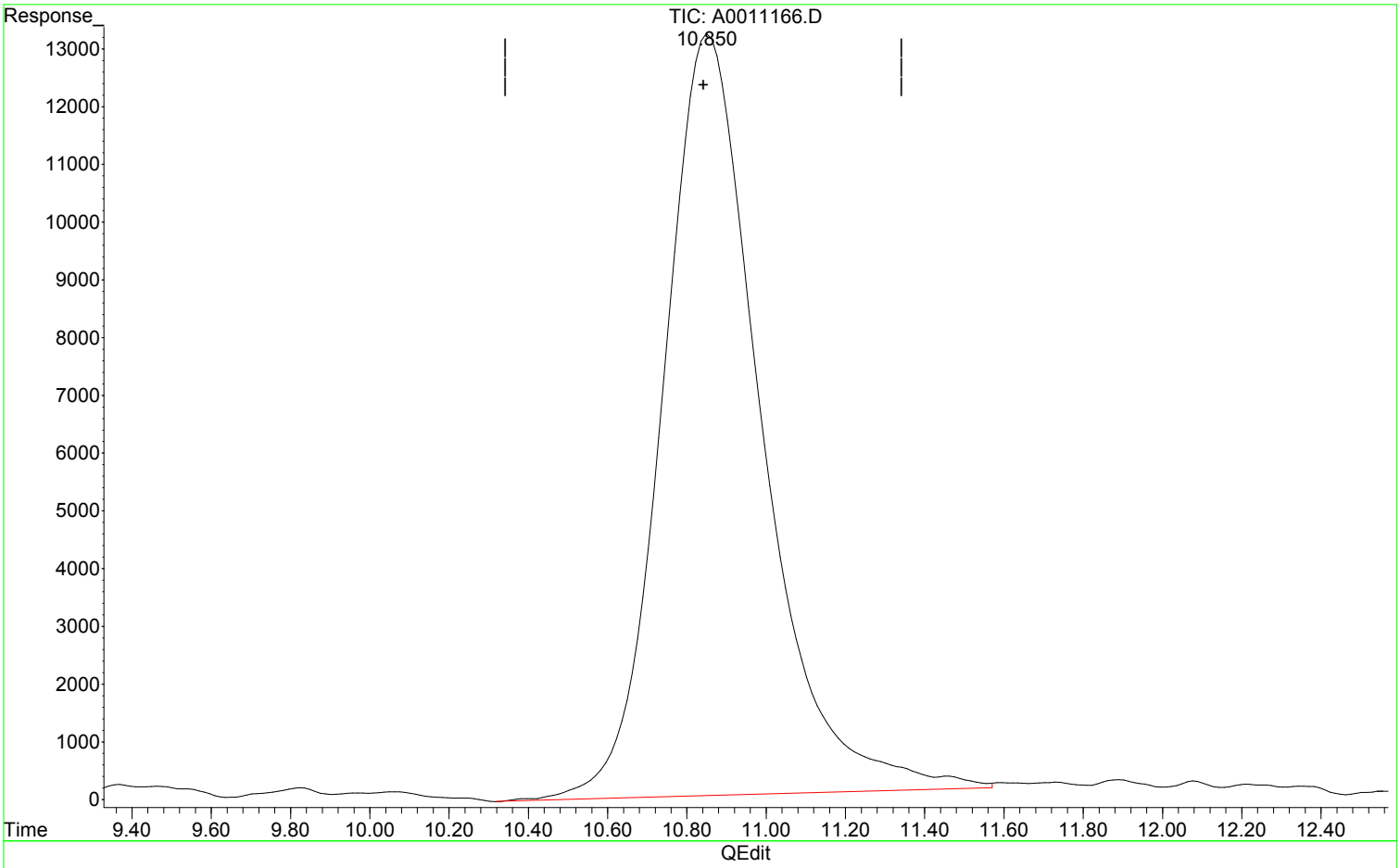
1st 02/23/24
2nd 02/27/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011166.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 19:44:55
Operator : KProcopio
Sample : R2401280-011|2
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:34 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.850min 36.789 ppm m

response 2278648

Manual Integration:

After

Poor integration.

02/23/24

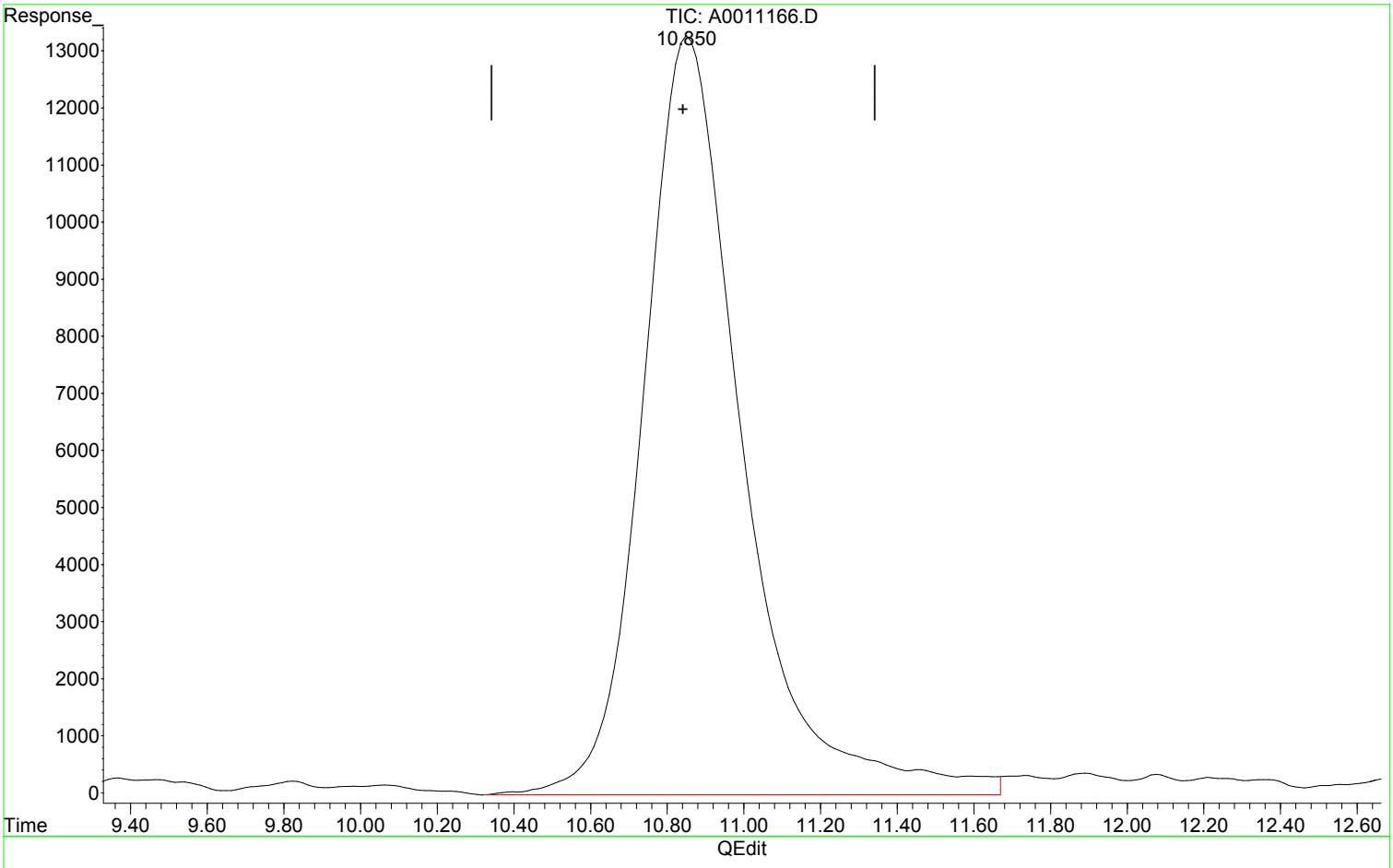
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011166.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 19:44:55
Operator : KProcopio
Sample : R2401280-011|2
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:34 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.856min 38.541 ppm

response 2387163

Manual Integration:

Before

02/23/24

(+) = Expected Retention Time

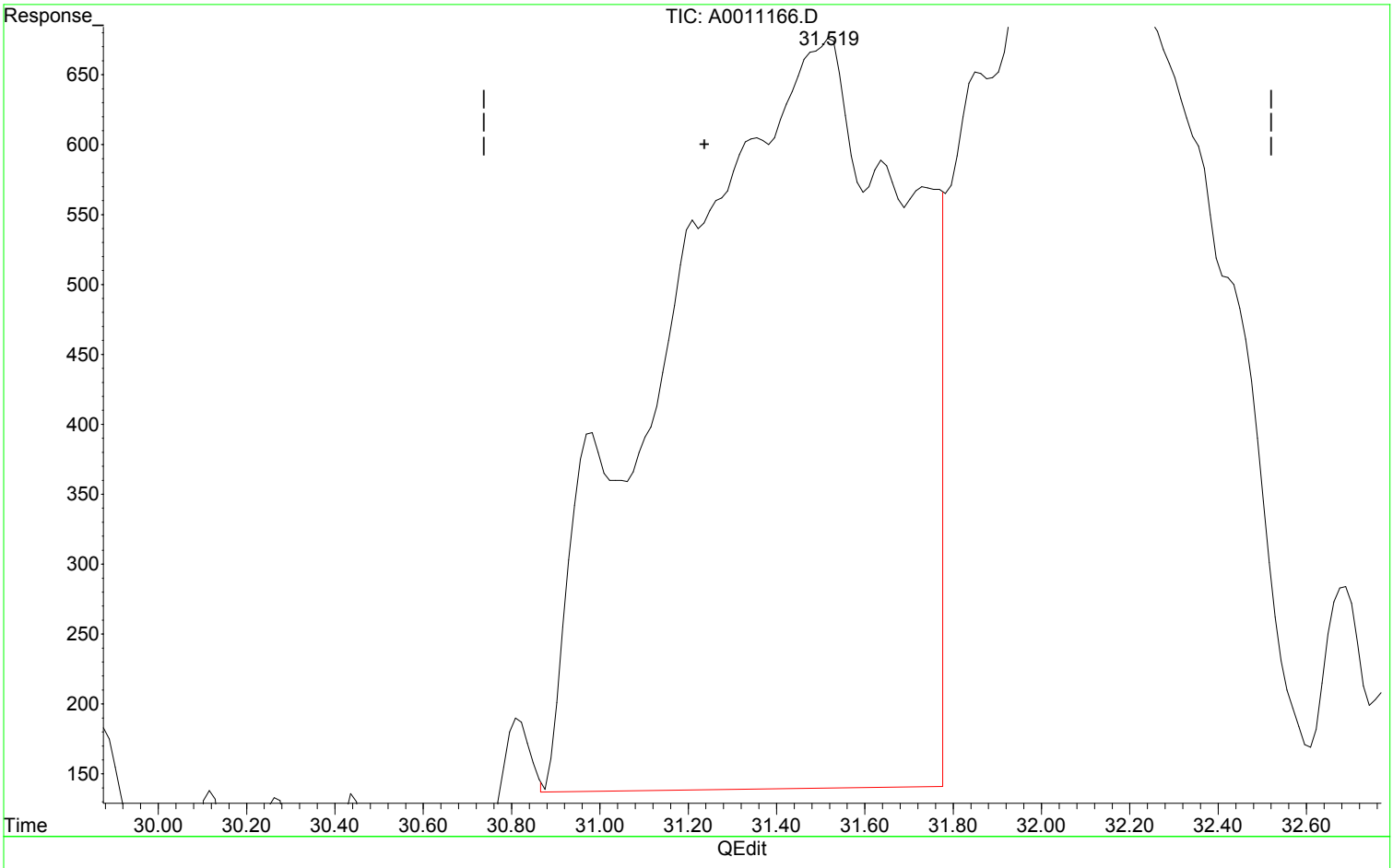
1st 02/23/24
2nd AF 02/27/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011166.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 19:44:55
Operator : KProcopio
Sample : R2401280-011|2
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:34 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

31.519min 3.537 ppm m

response 202320

Manual Integration:

After

Poor integration.

02/23/24

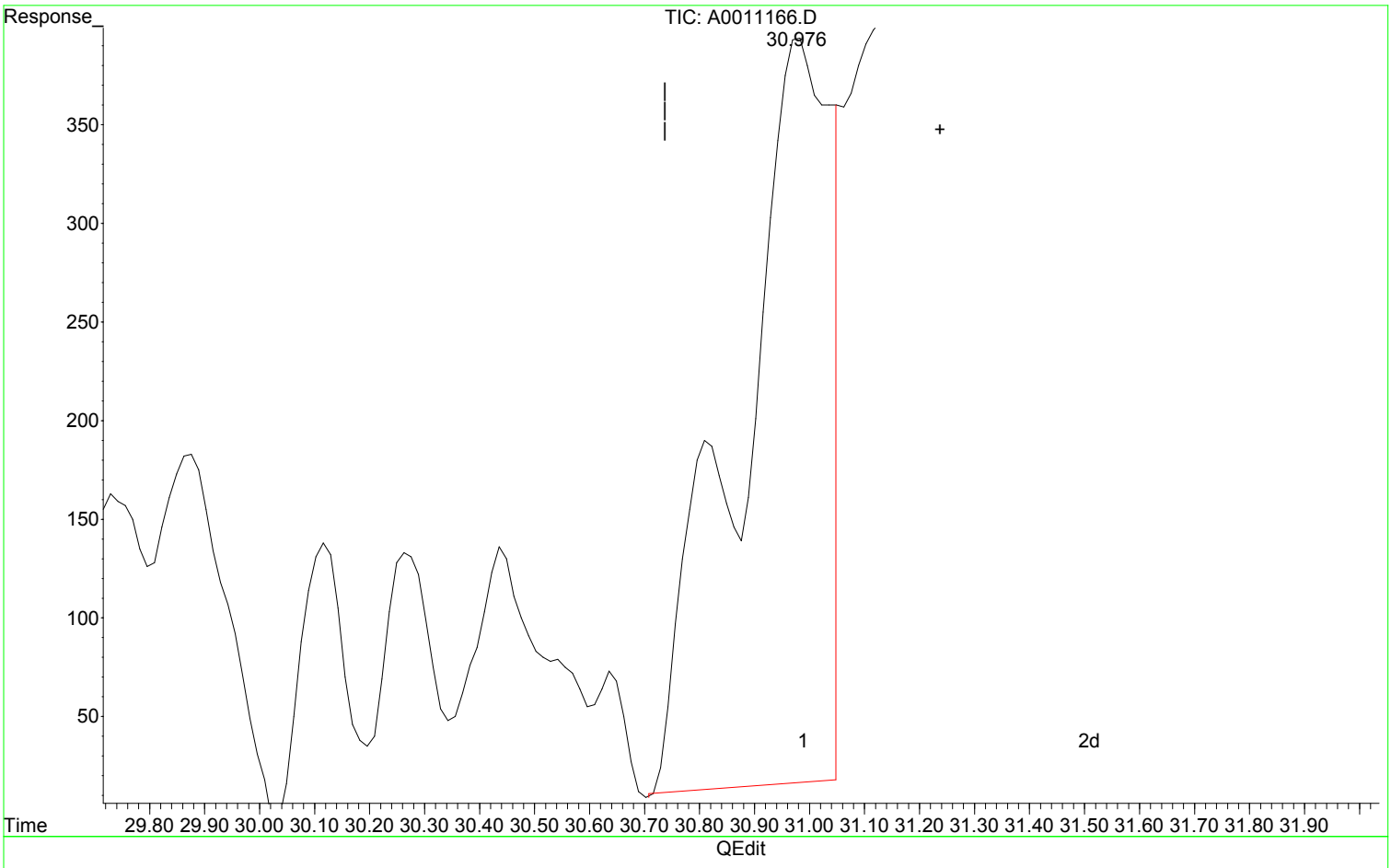
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011166.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 19:44:55
Operator : KProcopio
Sample : R2401280-011|2
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:34 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

30.989min 0.724 ppm

response 41385

Manual Integration:

Before

02/23/24

(+) = Expected Retention Time

1st 02/23/24
2nd 02/27/24

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011166.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 19:44:55
Operator : KProcopio
Sample : R2401280-011|2
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:34 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	4.374	118343	1.769	ppm	
4) T	Acetic Acid	4.772	6692264	105.799	ppm	m
5) T	Propionic Acid	10.850	2278648	36.789	ppm	m
6) T	Butyric Acid	31.519	202320	3.537	ppm	m

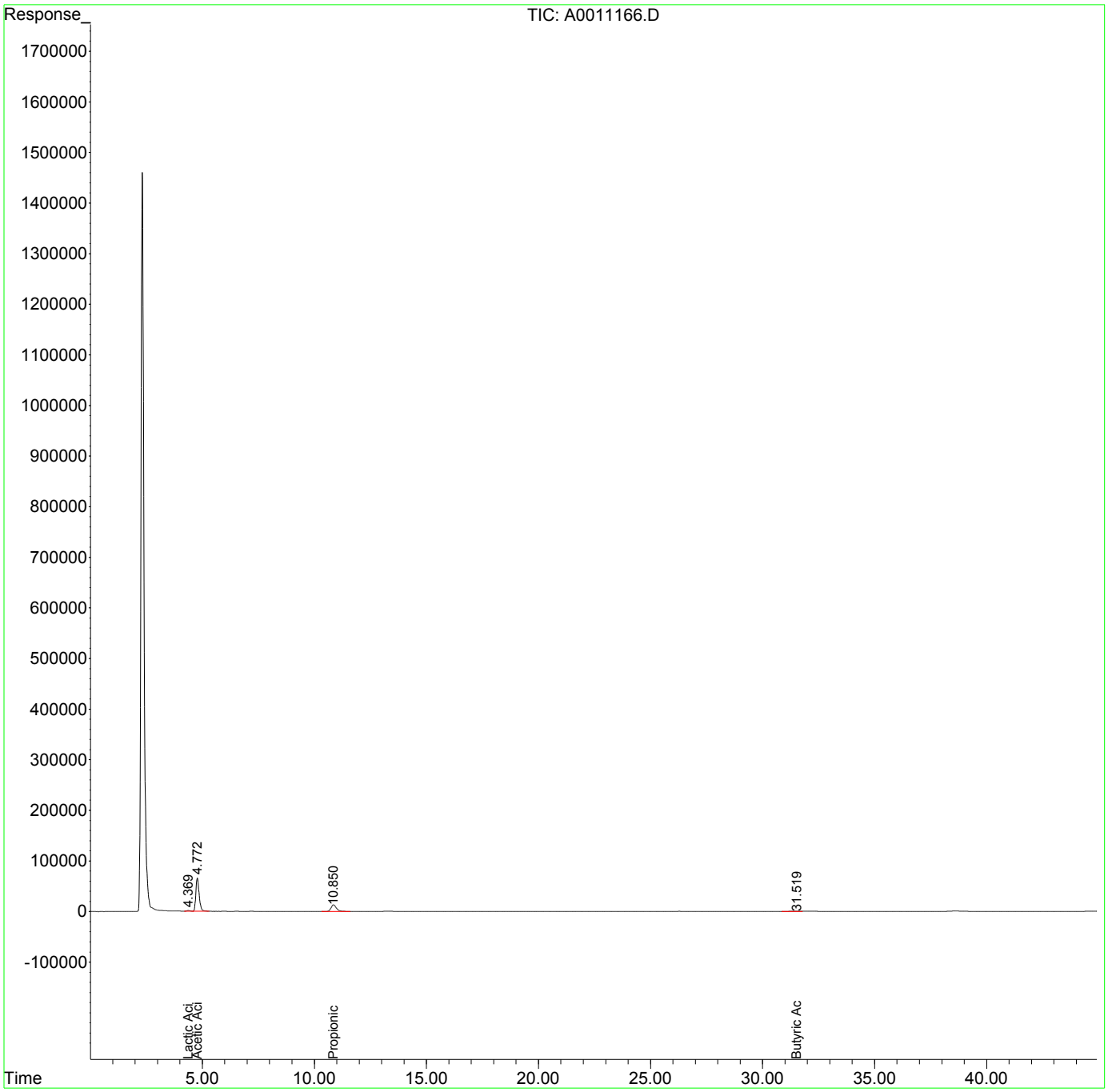
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011166.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 19:44:55
Operator : KProcopio
Sample : R2401280-011|2
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:34 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011149.D Wrong date/time, EDG 2/21/24
Signal(s) : dad1A.ch
Acq On : ~~31-Dec-2000, 03:47:56~~ 21:31:04 02/20/24
Operator : EDeGray
Sample : R2401280-012
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:20:49 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:20:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	0.000	0	N.D.	ppm	
5) T	Propionic Acid	0.000	0	N.D.	ppm	d
6) T	Butyric Acid	0.000	0	N.D.	ppm	d

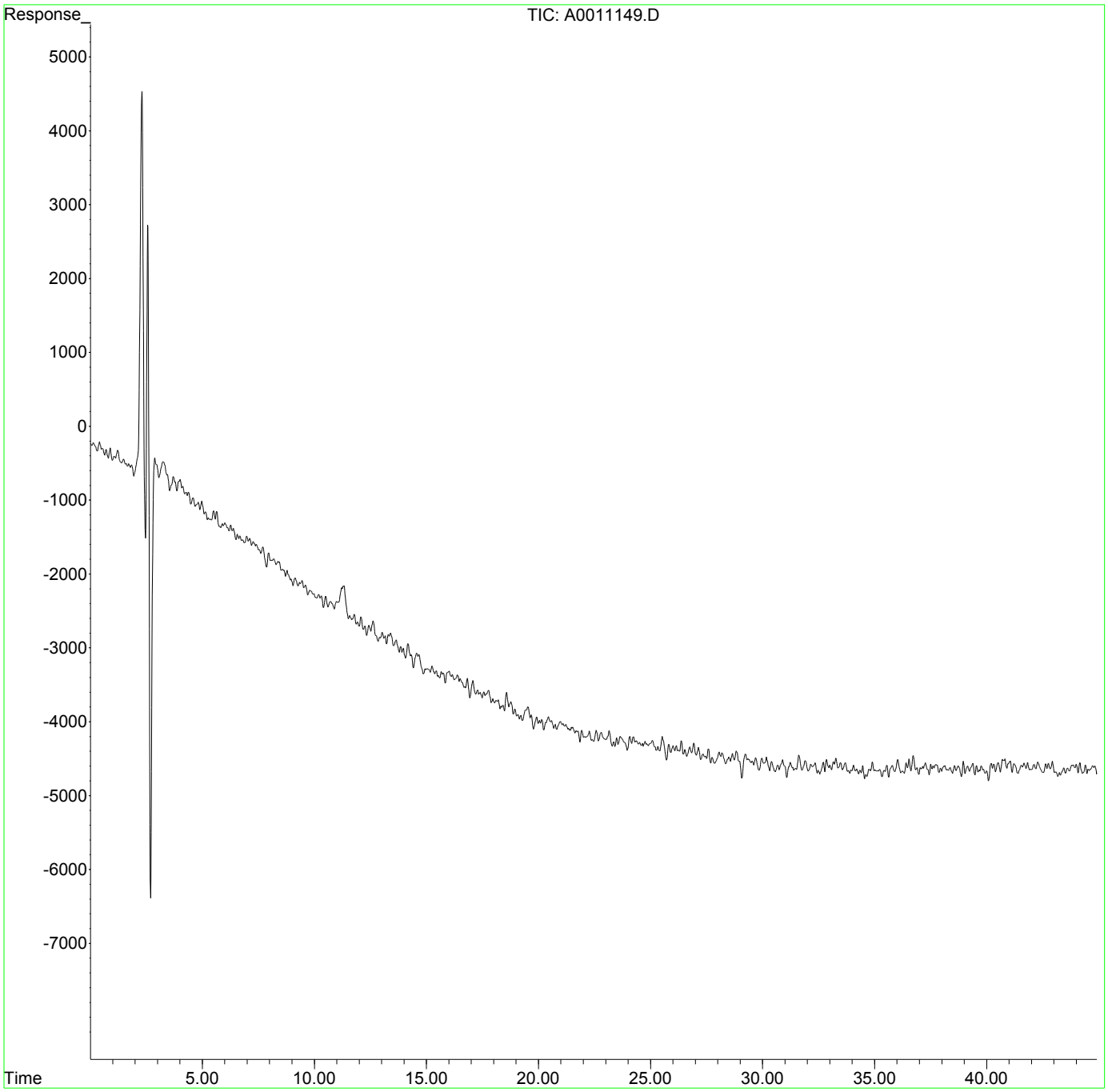
(f)=RT Delta > 1/2 Window (m)=manual int.

1st EDG 02/21/24
2nd AM 02/21/24

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011149.D
Signal(s) : dad1A.ch
Acq On : 31-Dec-2000, 03:47:56
Operator : EDeGray
Sample : R2401280-012
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:20:49 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:20:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011151.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 23:07:43
Operator : EDeGray
Sample : R2401280-013
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:28:09 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:27:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	0.000	0	N.D.	ppm	
5) T	Propionic Acid	0.000	0	N.D.	ppm	d
6) T	Butyric Acid	0.000	0	N.D.	ppm	d

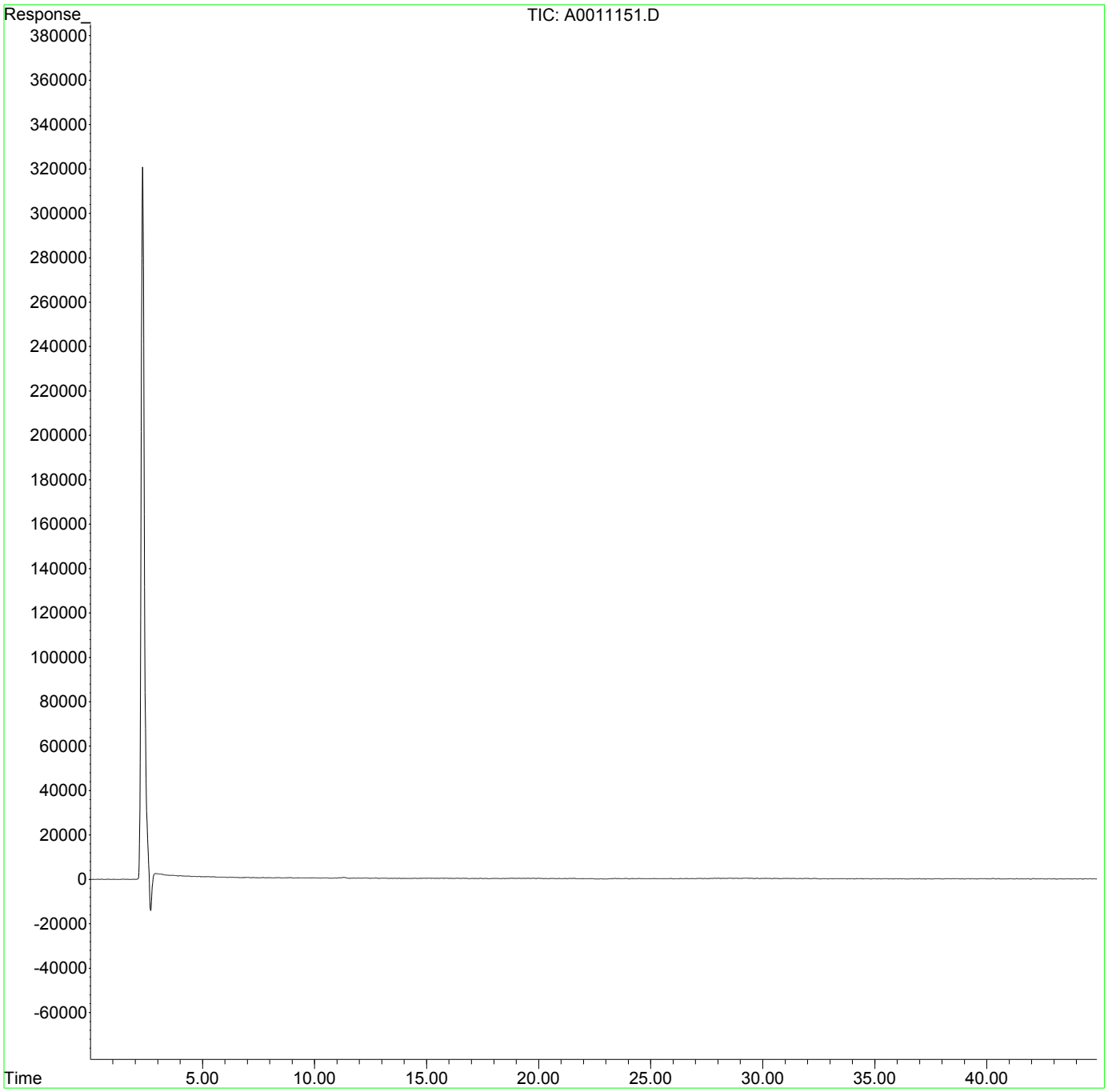
(f)=RT Delta > 1/2 Window (m)=manual int.

1st EDG 02/21/24
2nd AM 02/21/24

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011151.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 23:07:43
Operator : EDeGray
Sample : R2401280-013
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:28:09 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:27:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011167.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 20:31:58
Operator : KProcopio
Sample : R2401280-014
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:36 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	0.000	0	N.D.	ppm	
5) T	Propionic Acid	0.000	0	N.D.	ppm	d
6) T	Butyric Acid	0.000	0	N.D.	ppm	d

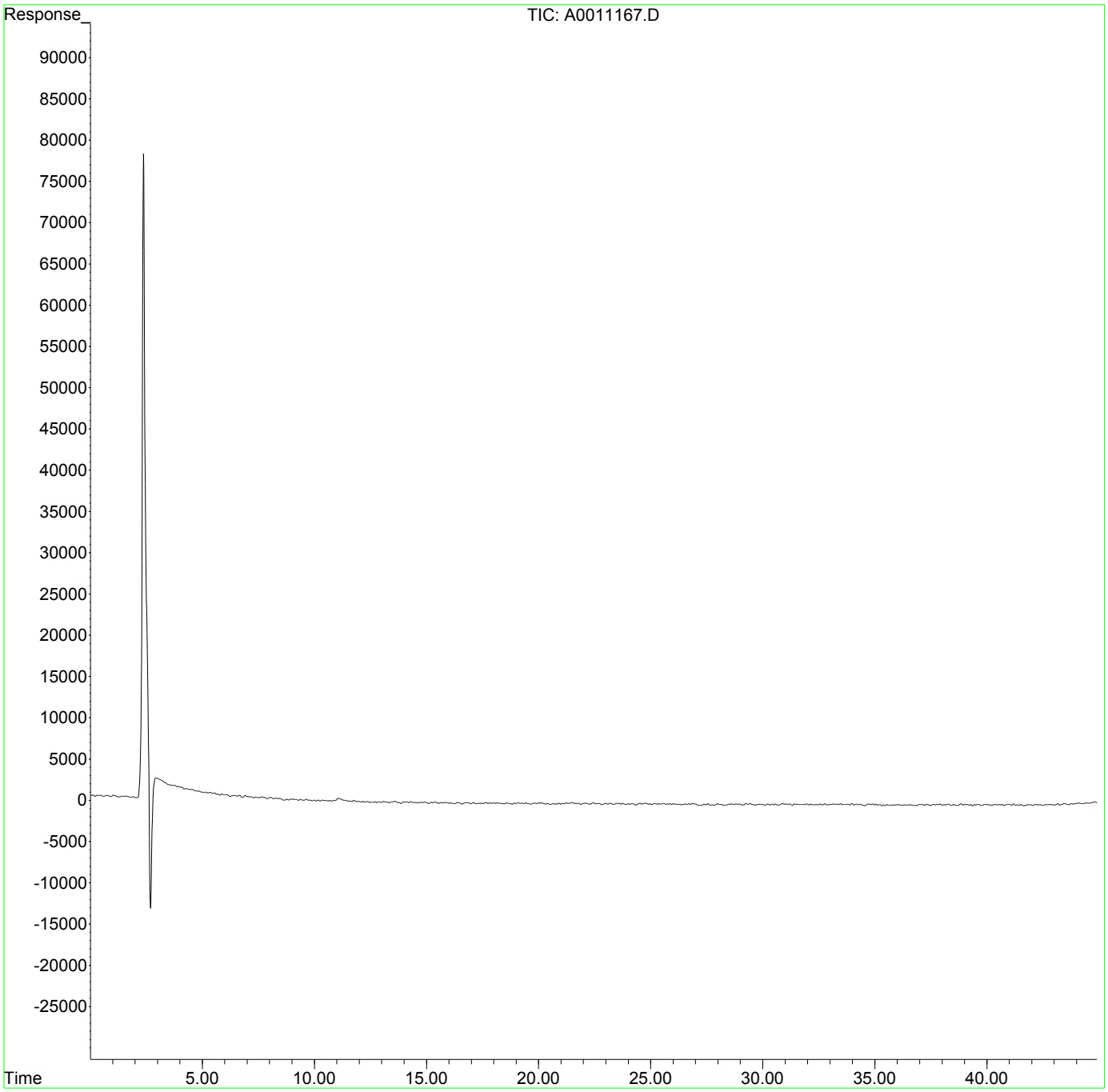
(f)=RT Delta > 1/2 Window (m)=manual int.

1st 02/23/24
2nd AF 02/27/24

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011167.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 20:31:58
Operator : KProcopio
Sample : R2401280-014
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:36 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011169.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 22:06:14
Operator : KProcopio
Sample : R2401280-015
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:14 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	0.000	0	N.D.	ppm	
5) T	Propionic Acid	0.000	0	N.D.	ppm	d
6) T	Butyric Acid	0.000	0	N.D.	ppm	

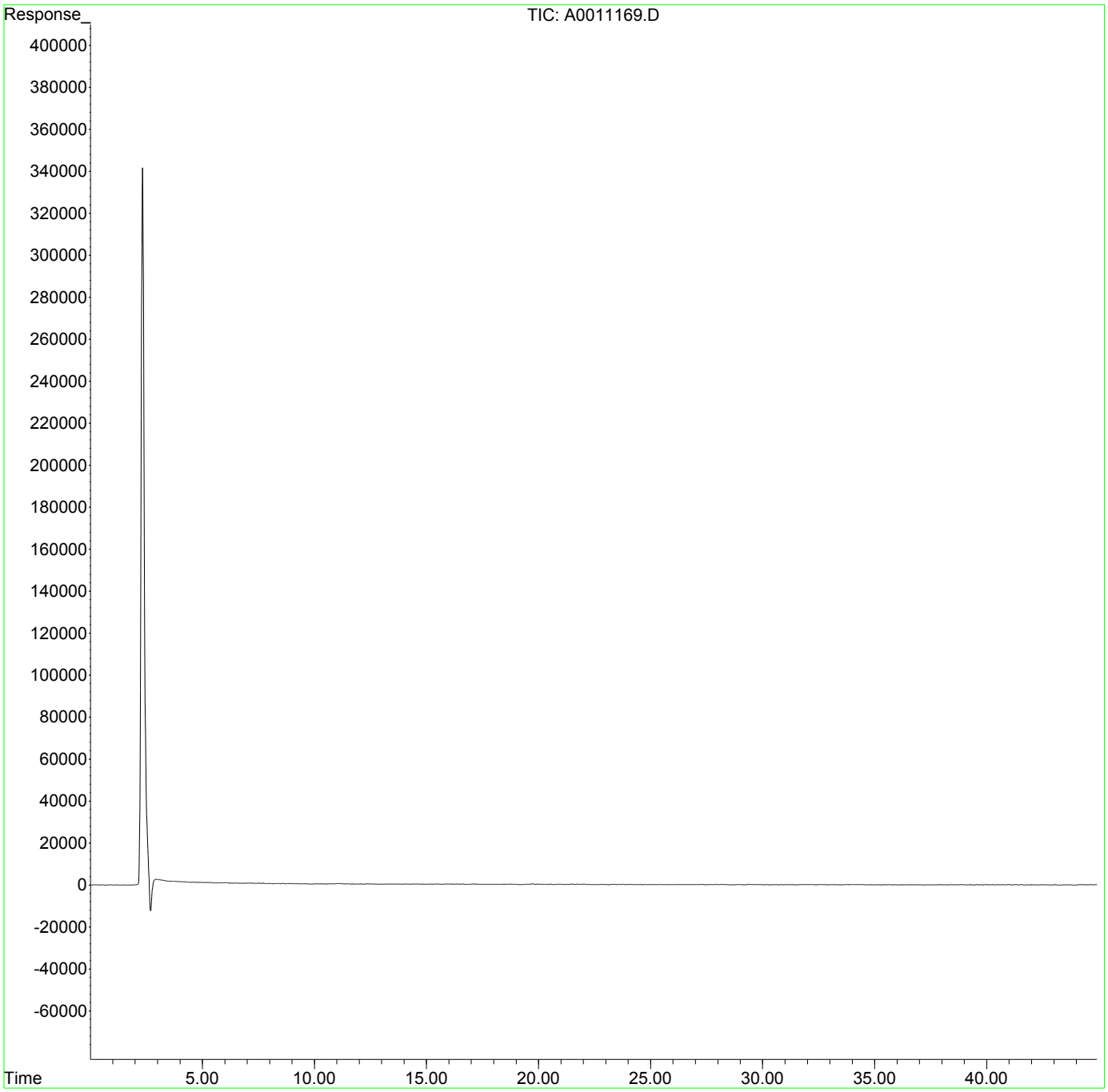
(f)=RT Delta > 1/2 Window (m)=manual int.

1st 02/23/24
2nd 02/27/24

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011169.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 22:06:14
Operator : KProcopio
Sample : R2401280-015
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:14 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

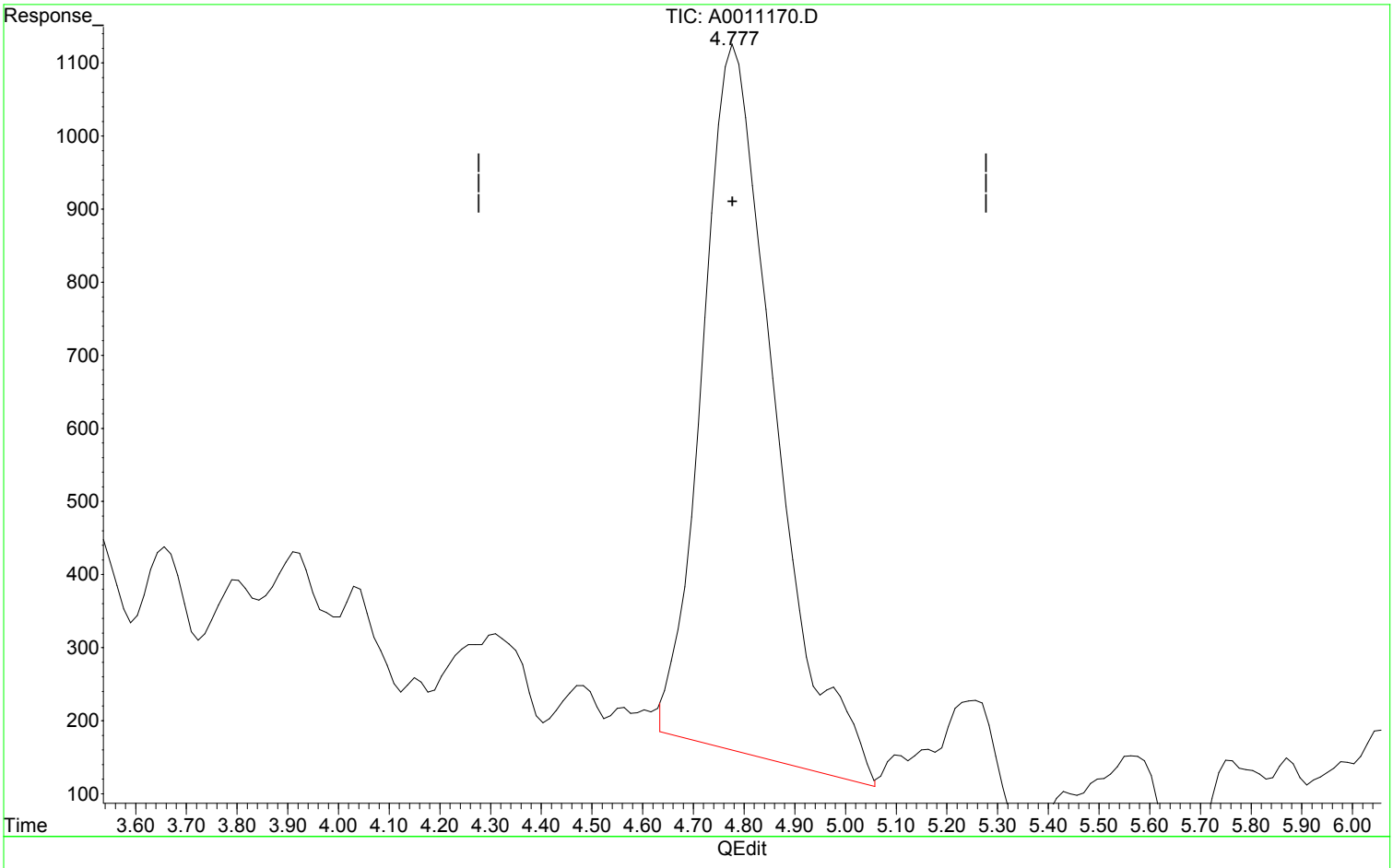


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011170.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 22:53:27
Operator : KProcopio
Sample : R2401280-016
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:17 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.777min 1.518 ppm m

response 96037

Manual Integration:

After

Poor integration.

02/23/24

(+) = Expected Retention Time

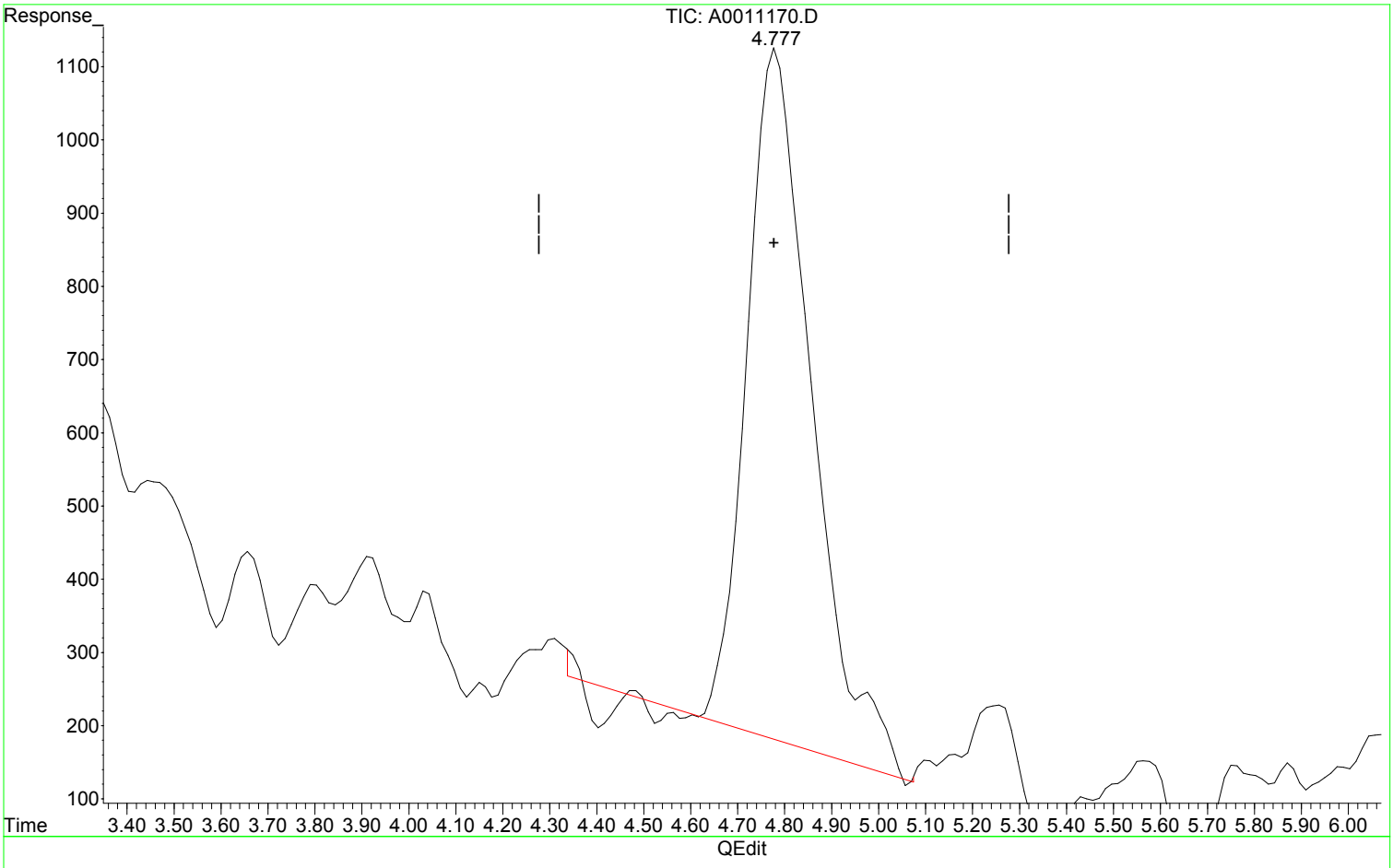
1st 02/23/24
2nd 02/27/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011170.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 22:53:27
Operator : KProcopio
Sample : R2401280-016
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:17 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.783min 1.451 ppm

response 91768

Manual Integration:

Before

02/23/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011170.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 22:53:27
Operator : KProcopio
Sample : R2401280-016
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:17 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	4.777	96037	1.518	ppm	m
5) T	Propionic Acid	0.000	0	N.D.	ppm	d
6) T	Butyric Acid	0.000	0	N.D.	ppm	

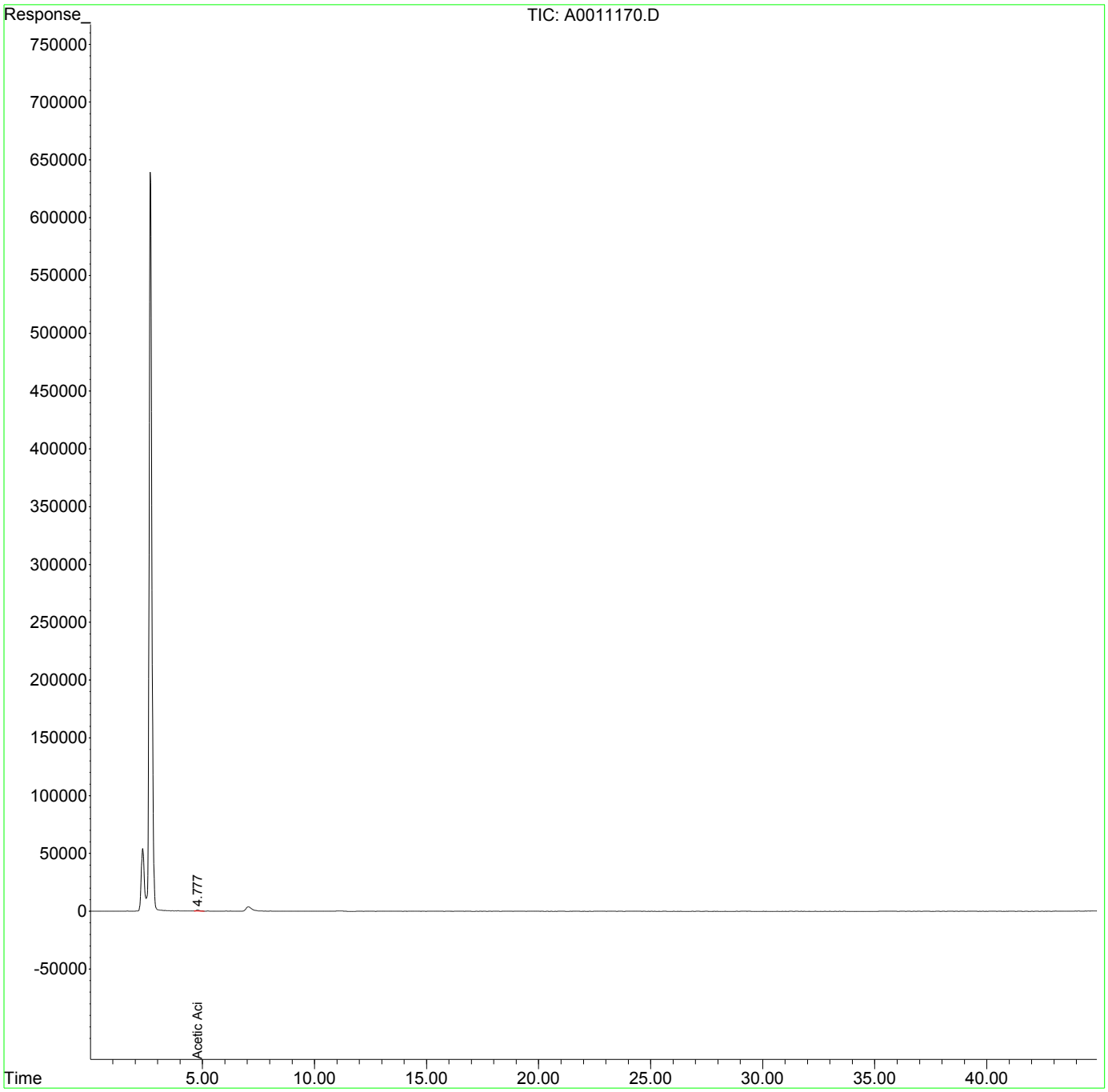
(f)=RT Delta > 1/2 Window (m)=manual int.

1st 02/23/24
2nd 02/27/24

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011170.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 22:53:27
Operator : KProcopio
Sample : R2401280-016
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:17 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



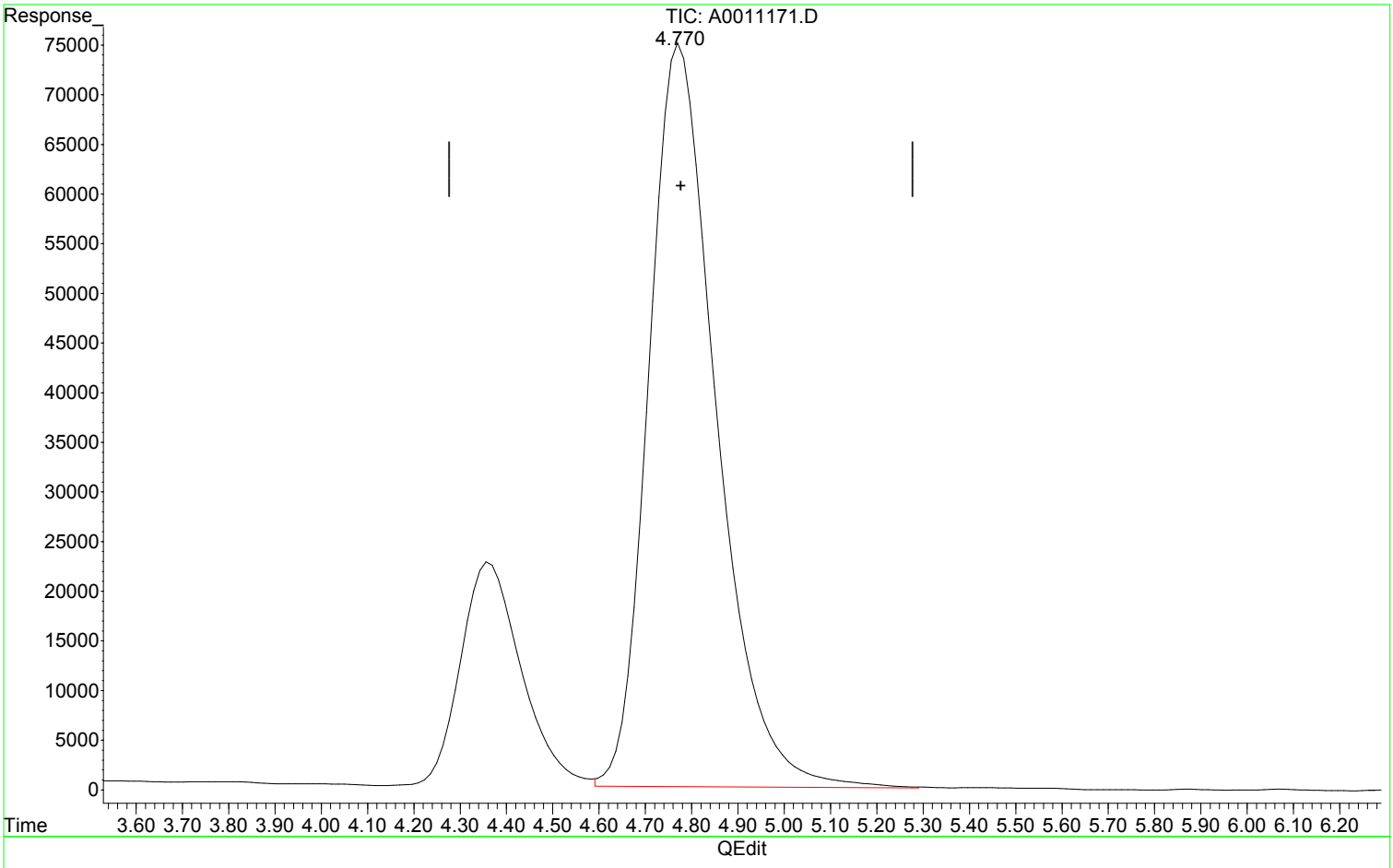
1st 02/23/24
2nd 02/27/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011171.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 23:40:44
Operator : KProcopio
Sample : R2401280-017
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:19 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.770min 119.969 ppm m

response 7588571

Manual Integration:

After

Poor integration.

02/23/24

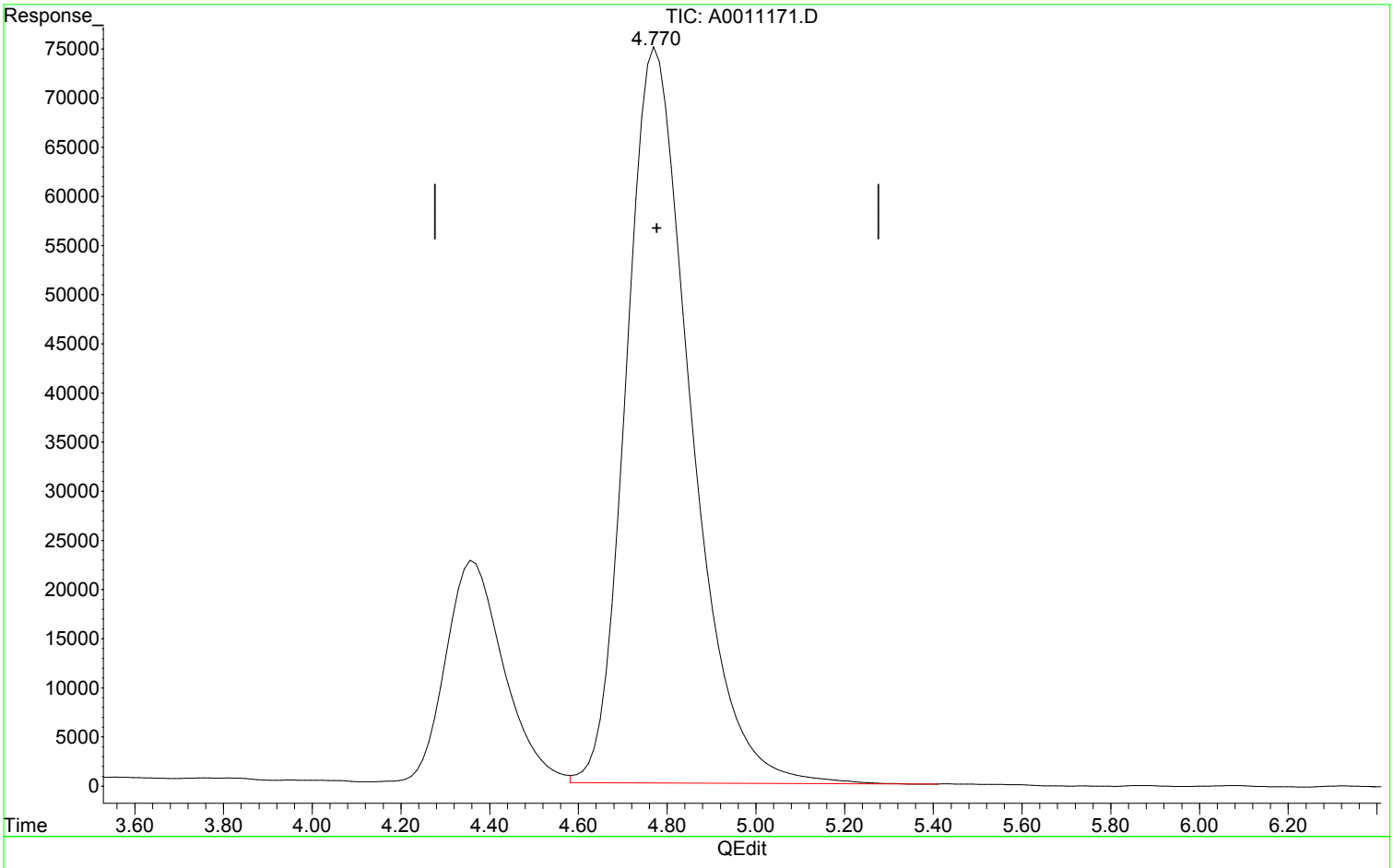
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011171.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 23:40:44
Operator : KProcopio
Sample : R2401280-017
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:19 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.776min 119.918 ppm

response 7585374

Manual Integration:

Before

02/23/24

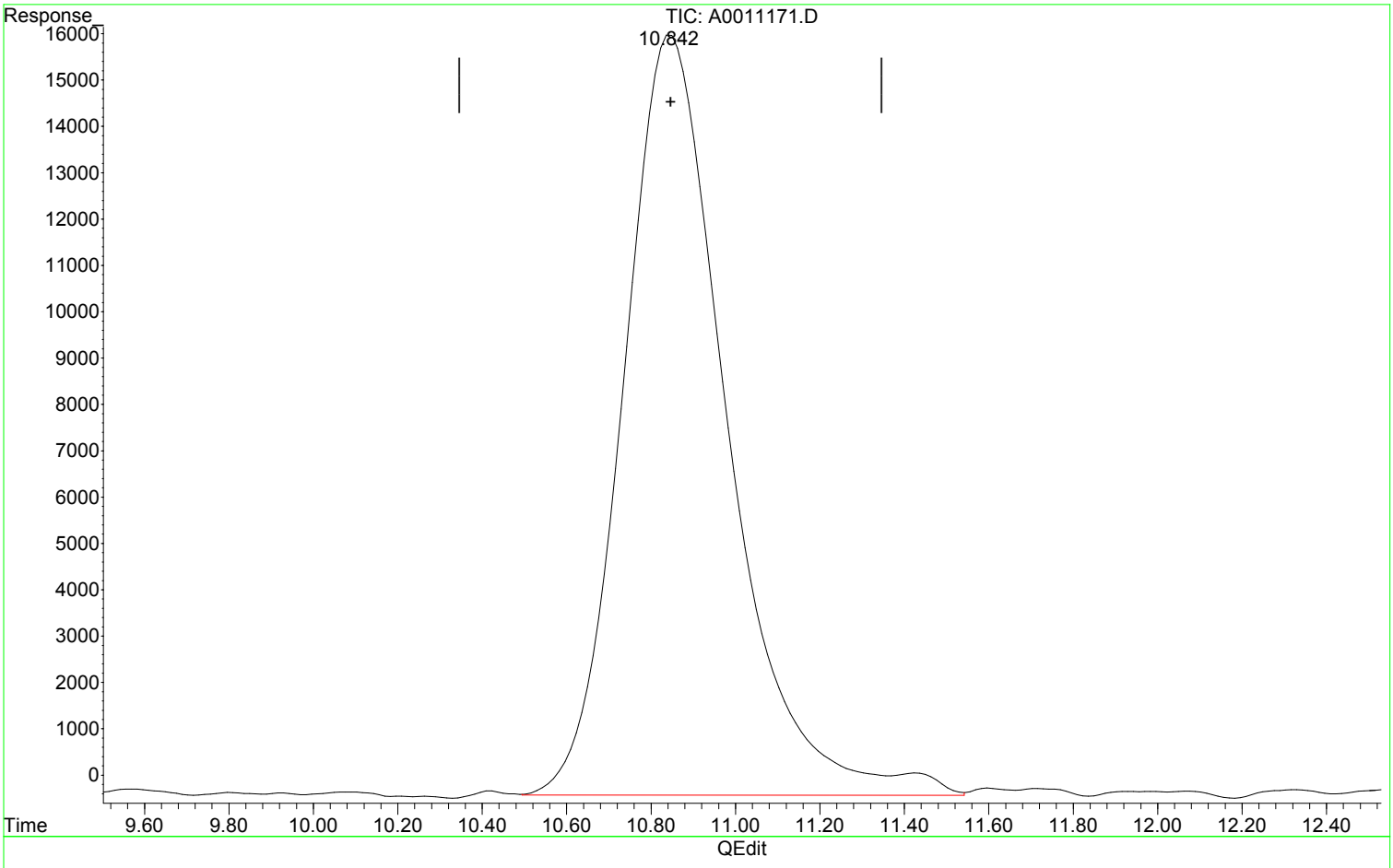
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011171.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 23:40:44
Operator : KProcopio
Sample : R2401280-017
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:19 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.842min 45.348 ppm m

response 2808764

Manual Integration:

After

Poor integration.

02/23/24

(+) = Expected Retention Time

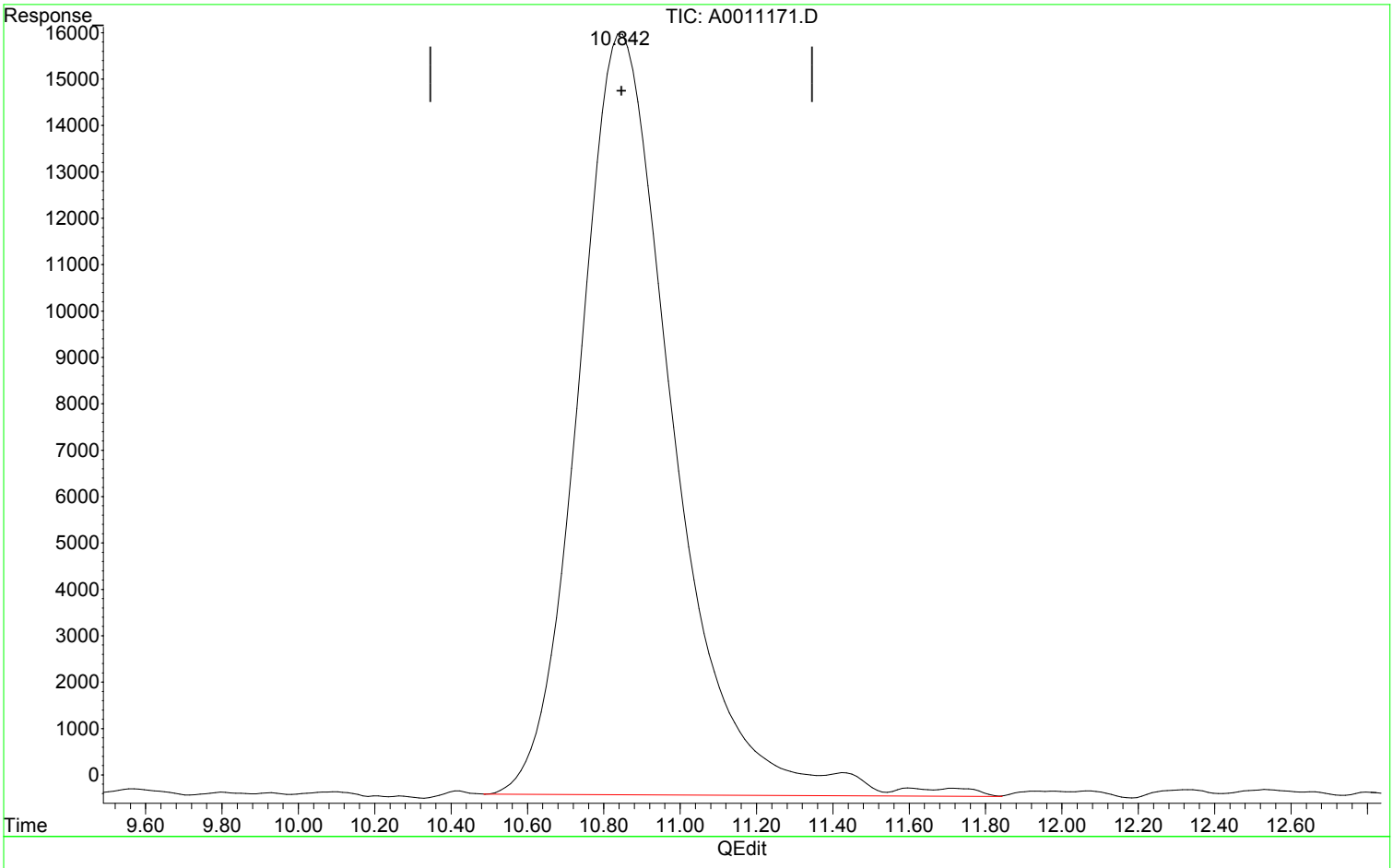
1st 02/23/24
2nd AF 02/27/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011171.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 23:40:44
Operator : KProcopio
Sample : R2401280-017
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:19 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.849min 45.725 ppm

response 2832127

Manual Integration:

Before

02/23/24

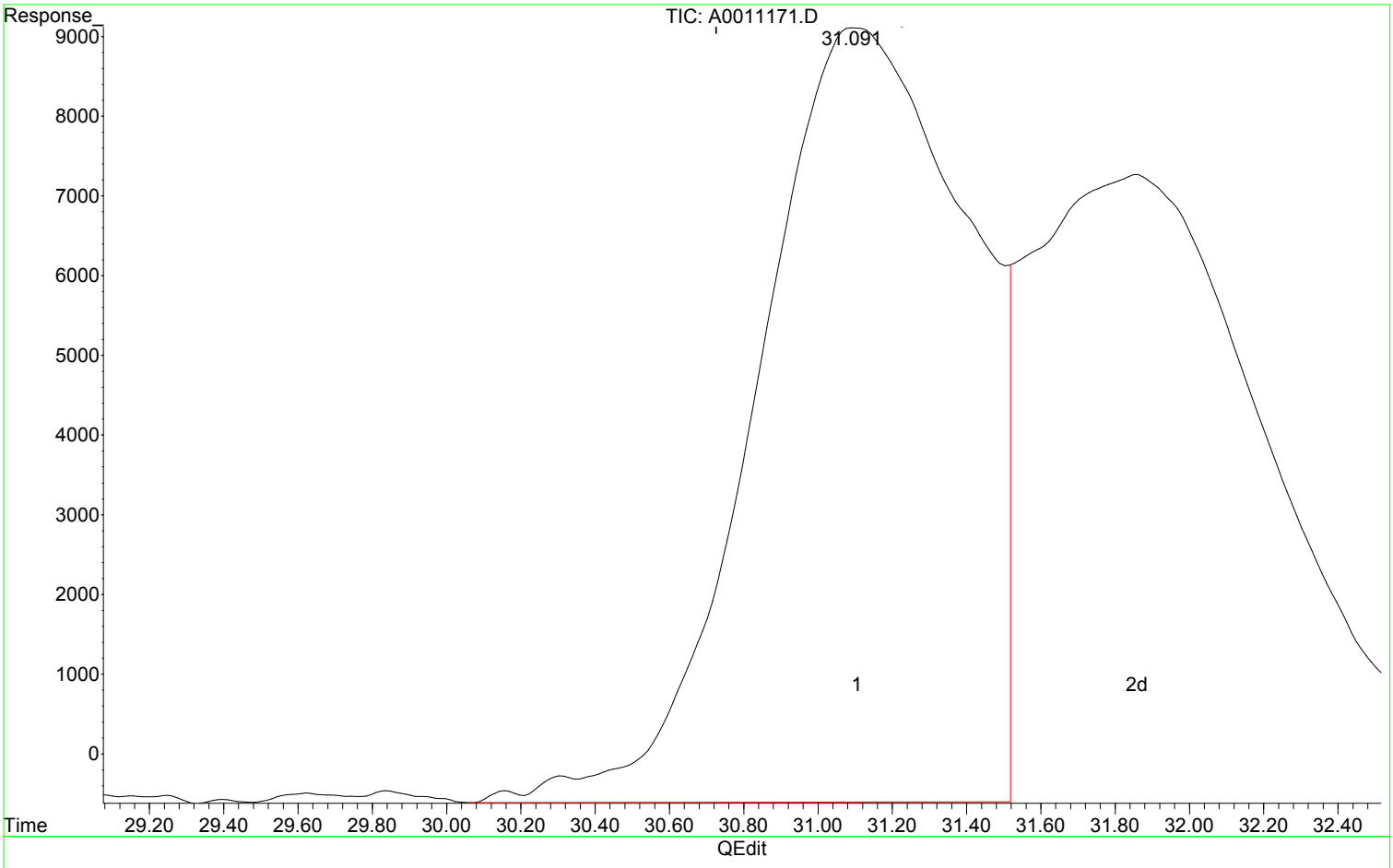
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011171.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 23:40:44
Operator : KProcopio
Sample : R2401280-017
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:19 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

31.105min 66.923 ppm

response 3827764

Manual Integration:

Before

02/23/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011171.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 23:40:44
Operator : KProcopio
Sample : R2401280-017
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:19 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	4.366	2045997	30.586	ppm	
4) T	Acetic Acid	4.770	7588571	119.969	ppm	m
5) T	Propionic Acid	10.842	2808764	45.348	ppm	m
6) T	Butyric Acid	31.105	3827764	66.923	ppm	

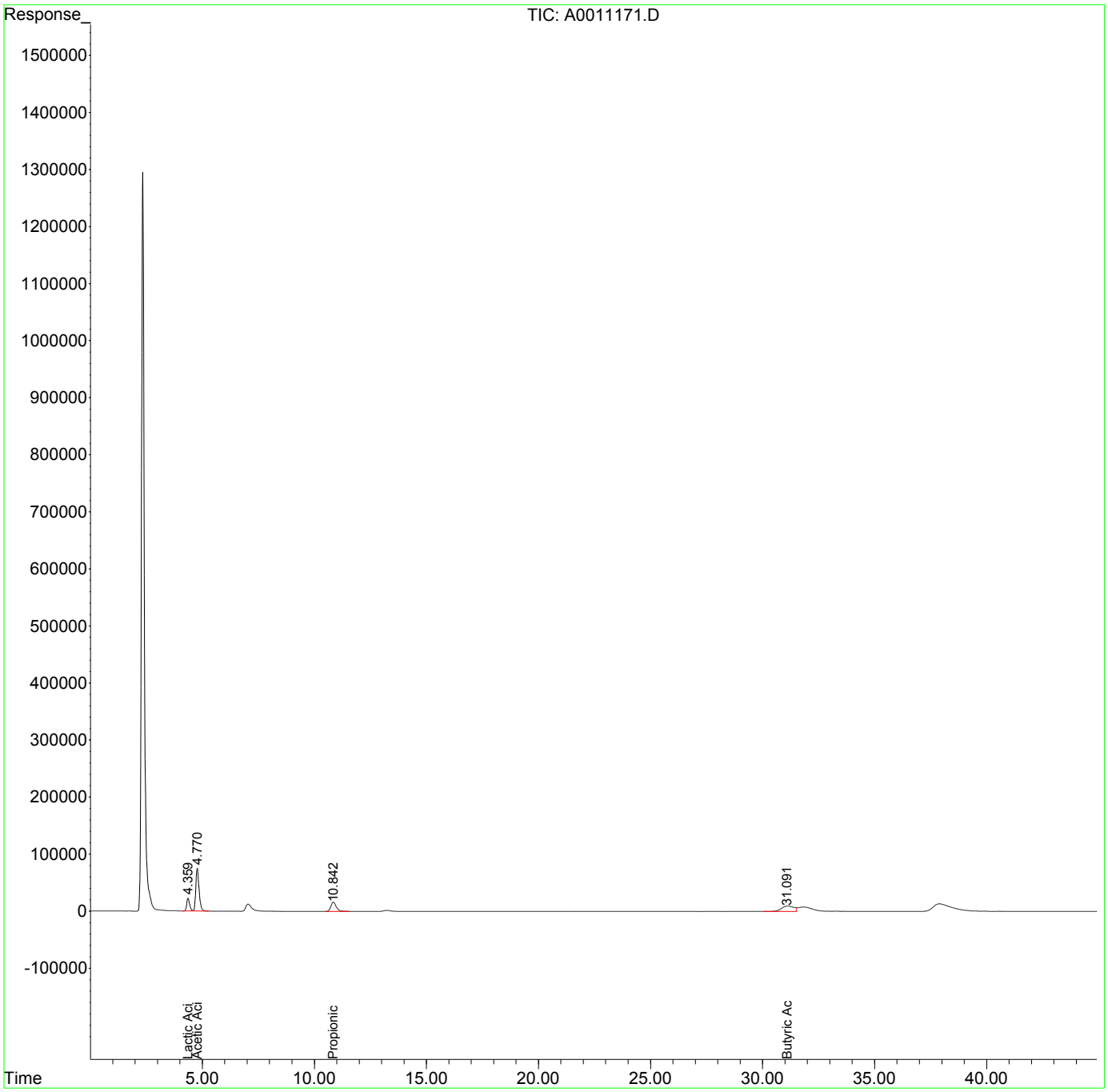
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011171.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 23:40:44
Operator : KProcopio
Sample : R2401280-017
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:19 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

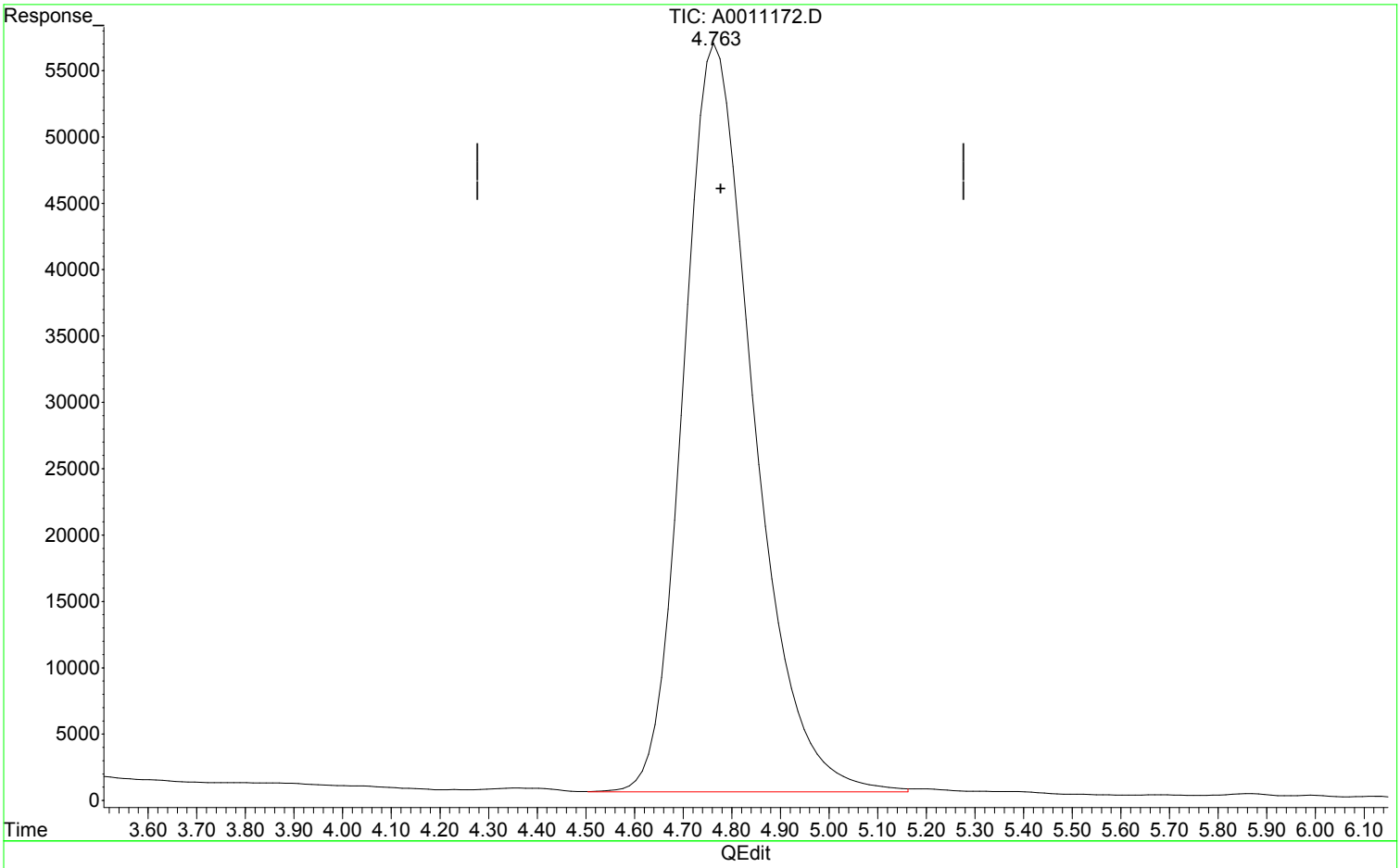


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011172.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 00:28:04
Operator : KProcopio
Sample : R2401280-018
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:21 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.763min 89.457 ppm m

response 5658557

Manual Integration:

After

Poor integration.

02/23/24

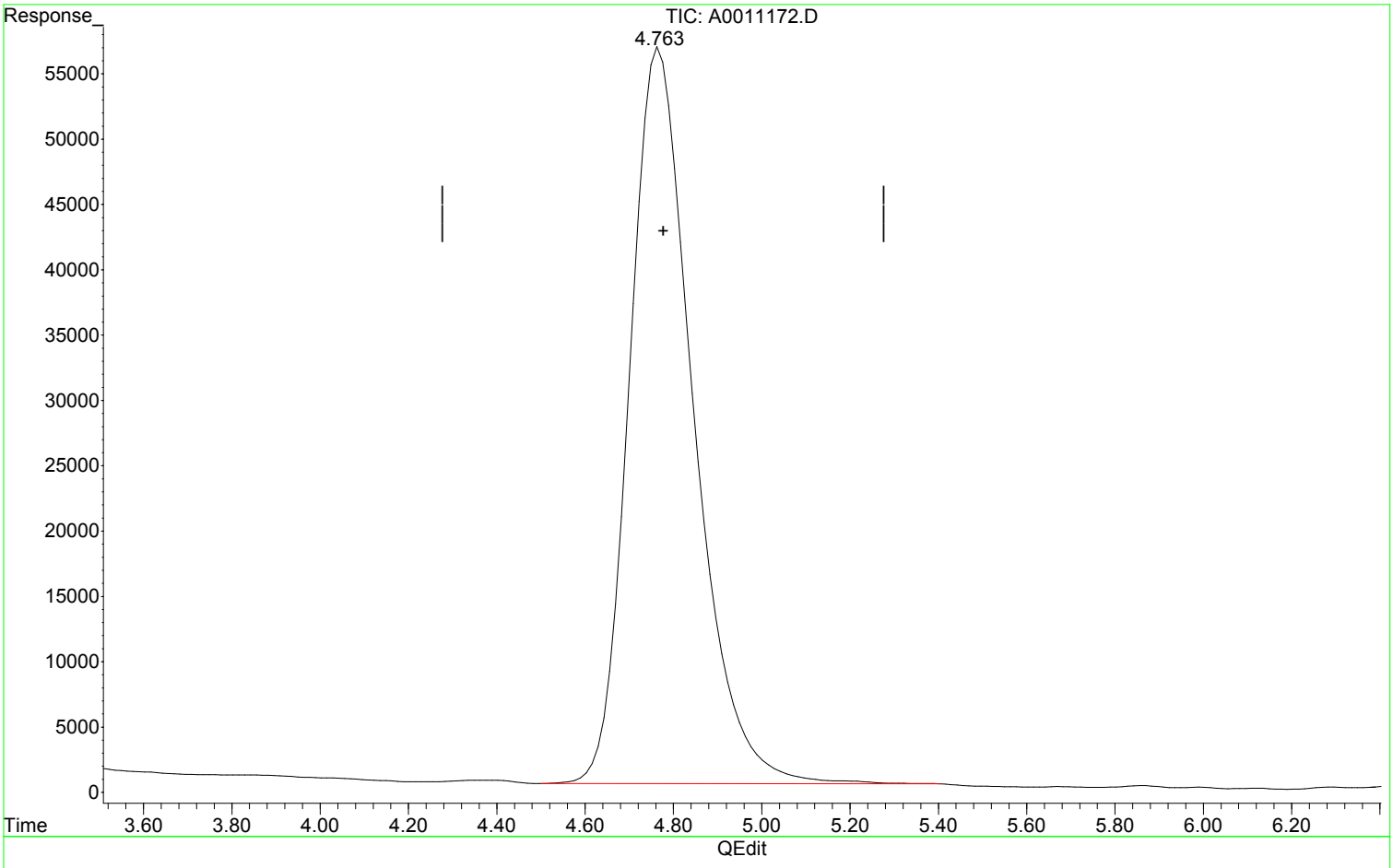
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011172.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 00:28:04
Operator : KProcopio
Sample : R2401280-018
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:21 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.770min 89.486 ppm

response 5660437

Manual Integration:

Before

02/23/24

(+) = Expected Retention Time

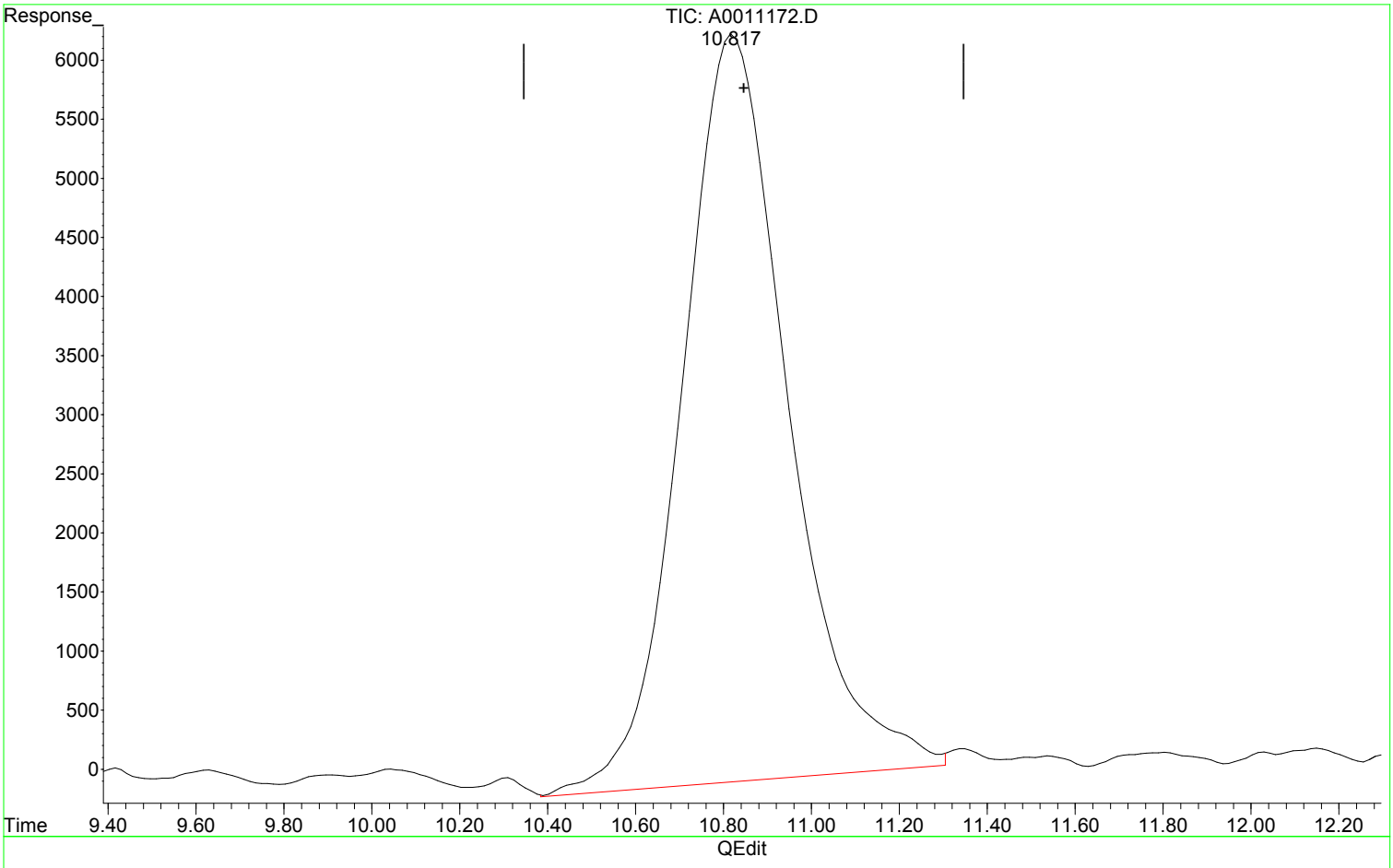
1st 02/23/24
2nd 02/27/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011172.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 00:28:04
Operator : KProcopio
Sample : R2401280-018
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:21 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.817min 17.148 ppm m

response 1062125

Manual Integration:

After

Poor integration.

02/23/24

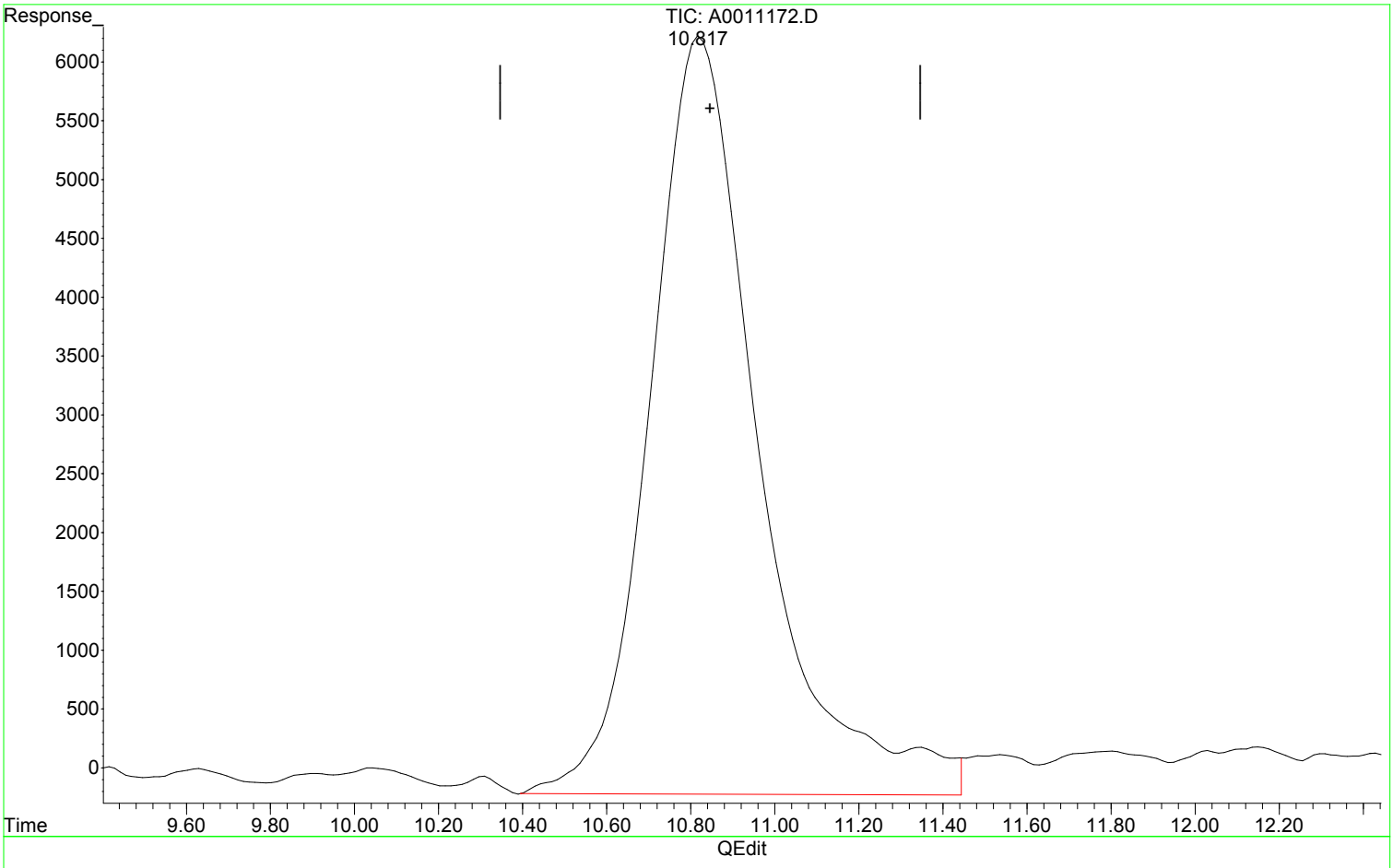
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011172.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 00:28:04
Operator : KProcopio
Sample : R2401280-018
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:21 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.824min 18.725 ppm

response 1159780

Manual Integration:

Before

02/23/24

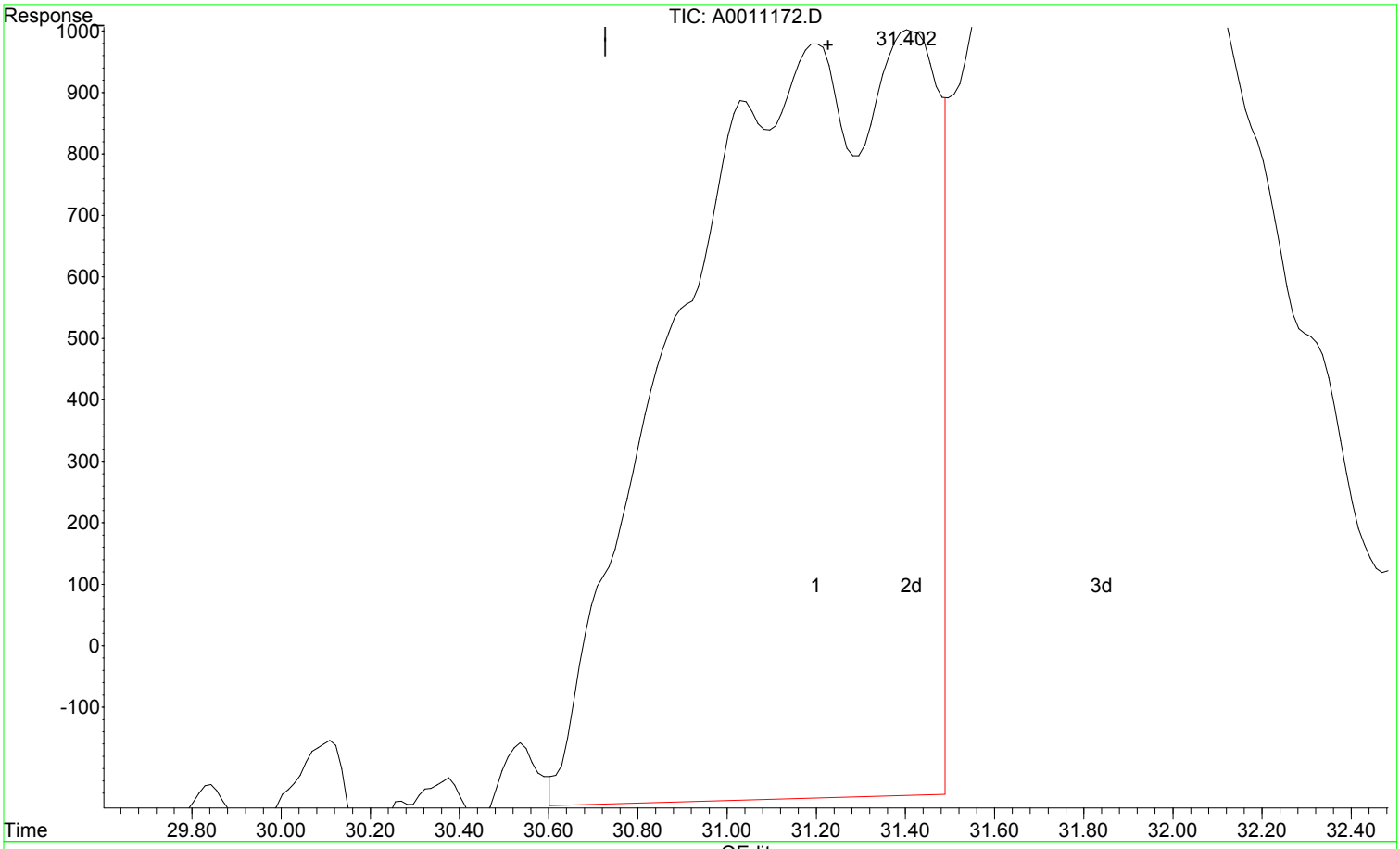
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011172.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 00:28:04
Operator : KProcopio
Sample : R2401280-018
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:21 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

31.402min 8.229 ppm m

response 470683

Manual Integration:

After

Poor integration.

02/26/24

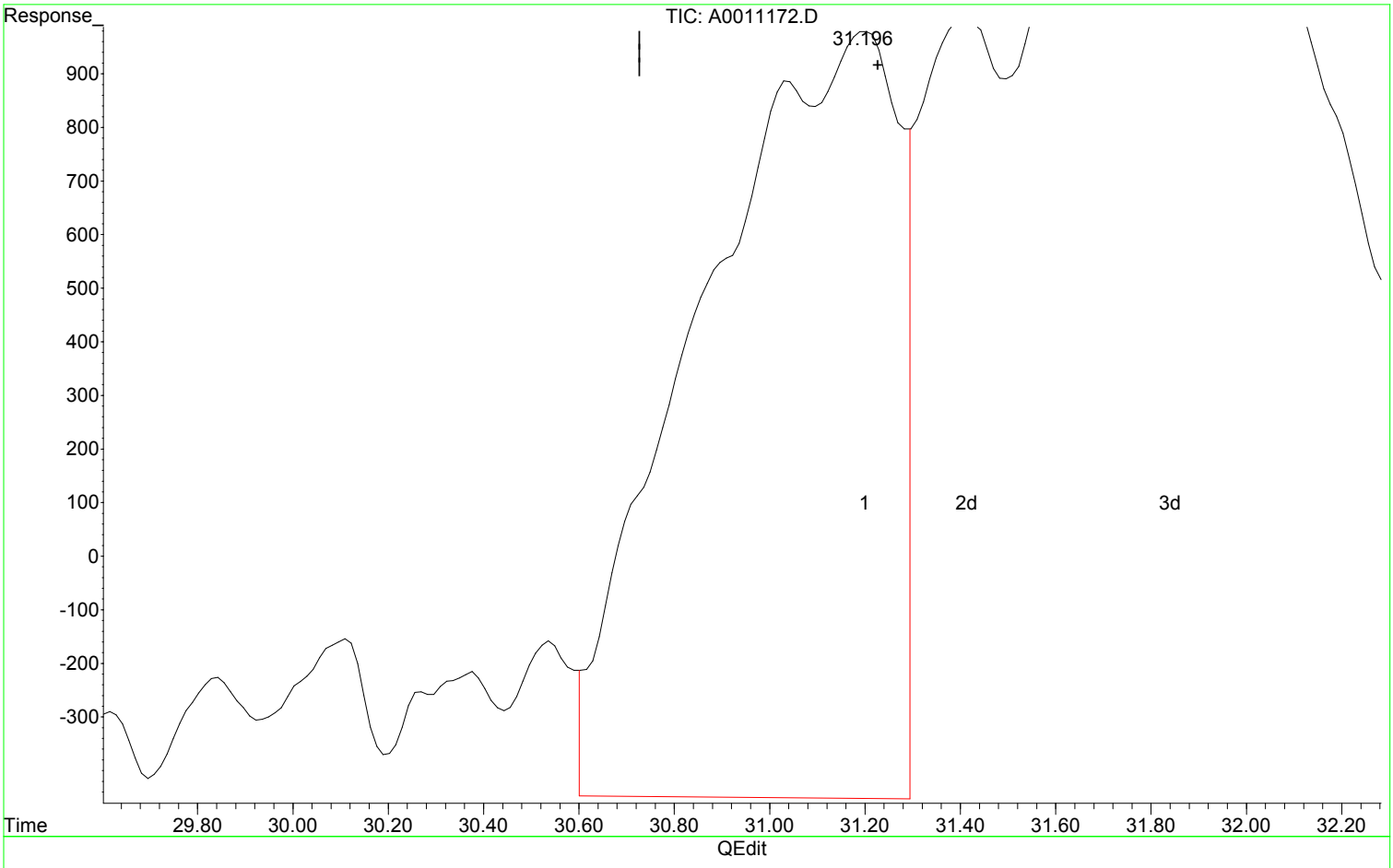
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011172.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 00:28:04
Operator : KProcopio
Sample : R2401280-018
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:21 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

31.199min 7.198 ppm

response 411685

Manual Integration:

Before

02/23/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011172.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 00:28:04
Operator : KProcopio
Sample : R2401280-018
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:21 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

Compound	R.T.	Response	Conc	Units	
Target Compounds					
1) t Formic acid	0.000	0	N.D.	ppm	
2) T Pyruvic acid	0.000	0	N.D.	ppm	
3) T Lactic Acid	0.000	0	N.D.	ppm	
4) T Acetic Acid	4.770	5660437	89.486	ppm	
5) T Propionic Acid	10.817	1062125	17.148	ppm	m
6) T Butyric Acid	31.402	470683	8.229	ppm	m

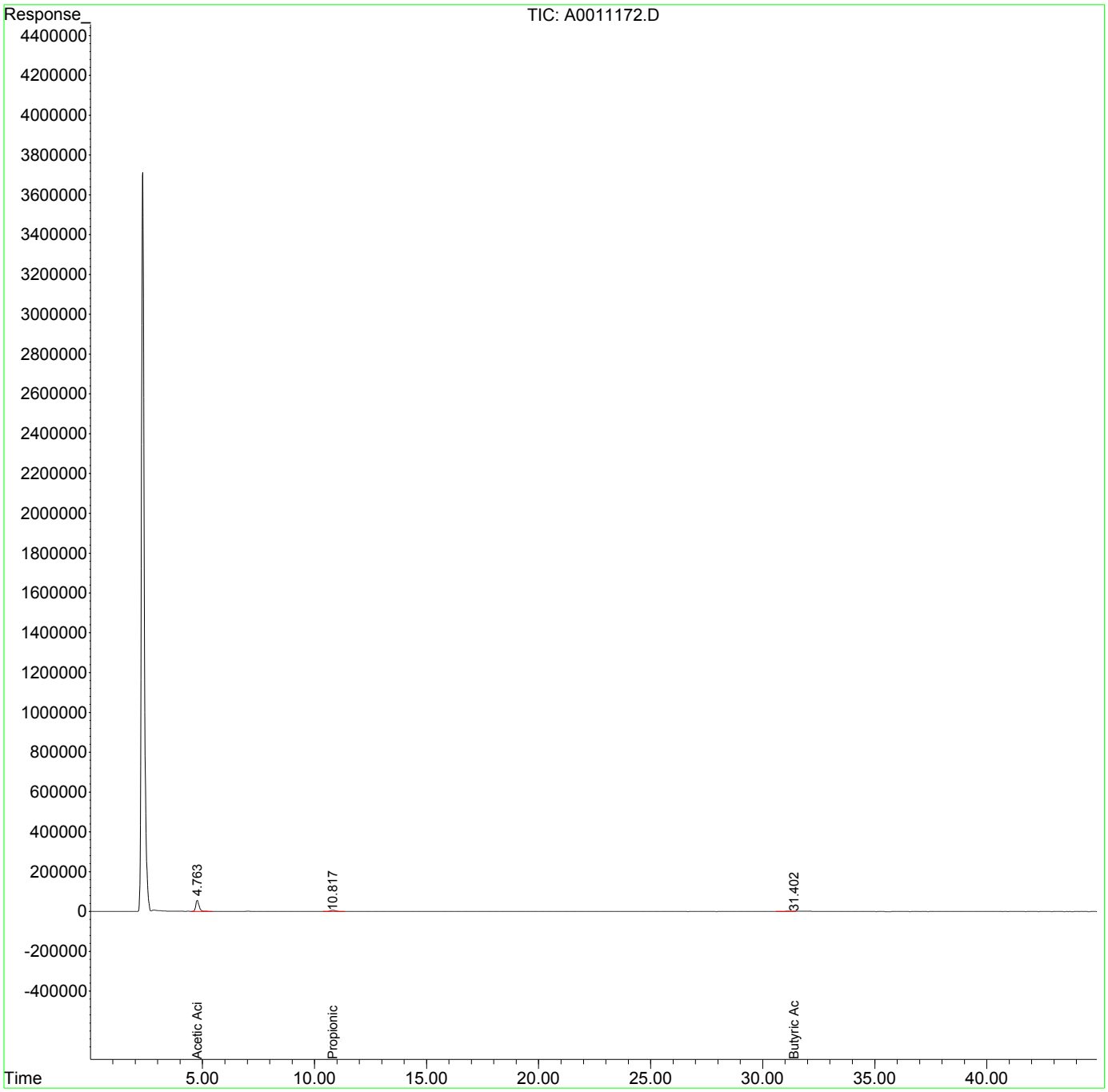
(f)=RT Delta > 1/2 Window (m)=manual int.

1st 02/23/24
2nd 02/27/24

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011172.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 00:28:04
Operator : KProcopio
Sample : R2401280-018
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:21 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011176.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 03:37:04
Operator : KProcopio
Sample : R2401280-019
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:15:24 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:15:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	0.000	0	N.D.	ppm	
5) T	Propionic Acid	0.000	0	N.D.	ppm	d
6) T	Butyric Acid	0.000	0	N.D.	ppm	

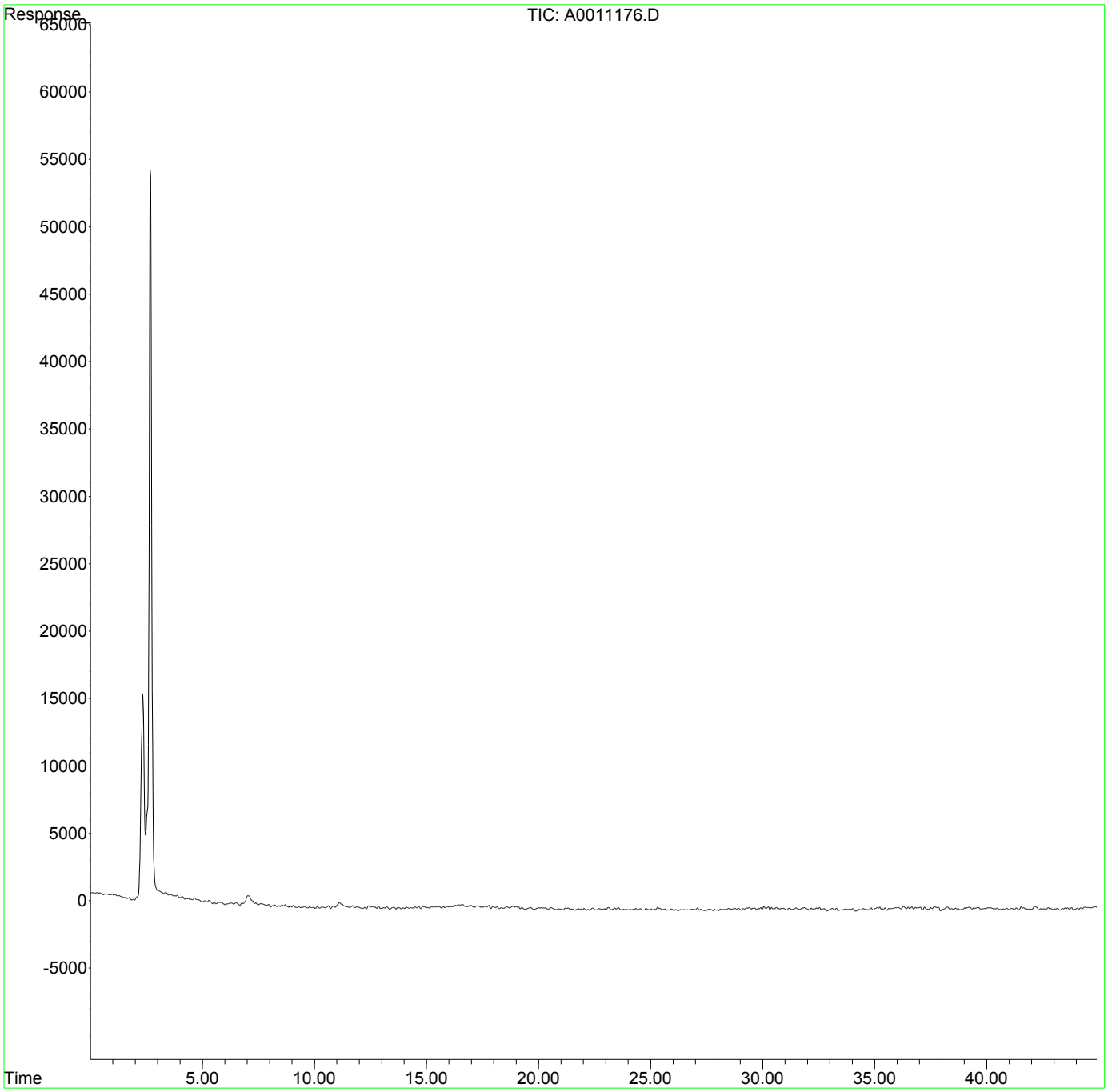
(f)=RT Delta > 1/2 Window (m)=manual int.

1st 02/23/24
2nd 02/27/24

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011176.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 03:37:04
Operator : KProcopio
Sample : R2401280-019
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:15:24 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:15:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011177.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 04:24:17
Operator : KProcopio
Sample : R2401280-20
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:15:26 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:15:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	0.000	0	N.D.	ppm	d
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	0.000	0	N.D.	ppm	d
5) T	Propionic Acid	0.000	0	N.D.	ppm	d
6) T	Butyric Acid	0.000	0	N.D.	ppm	d

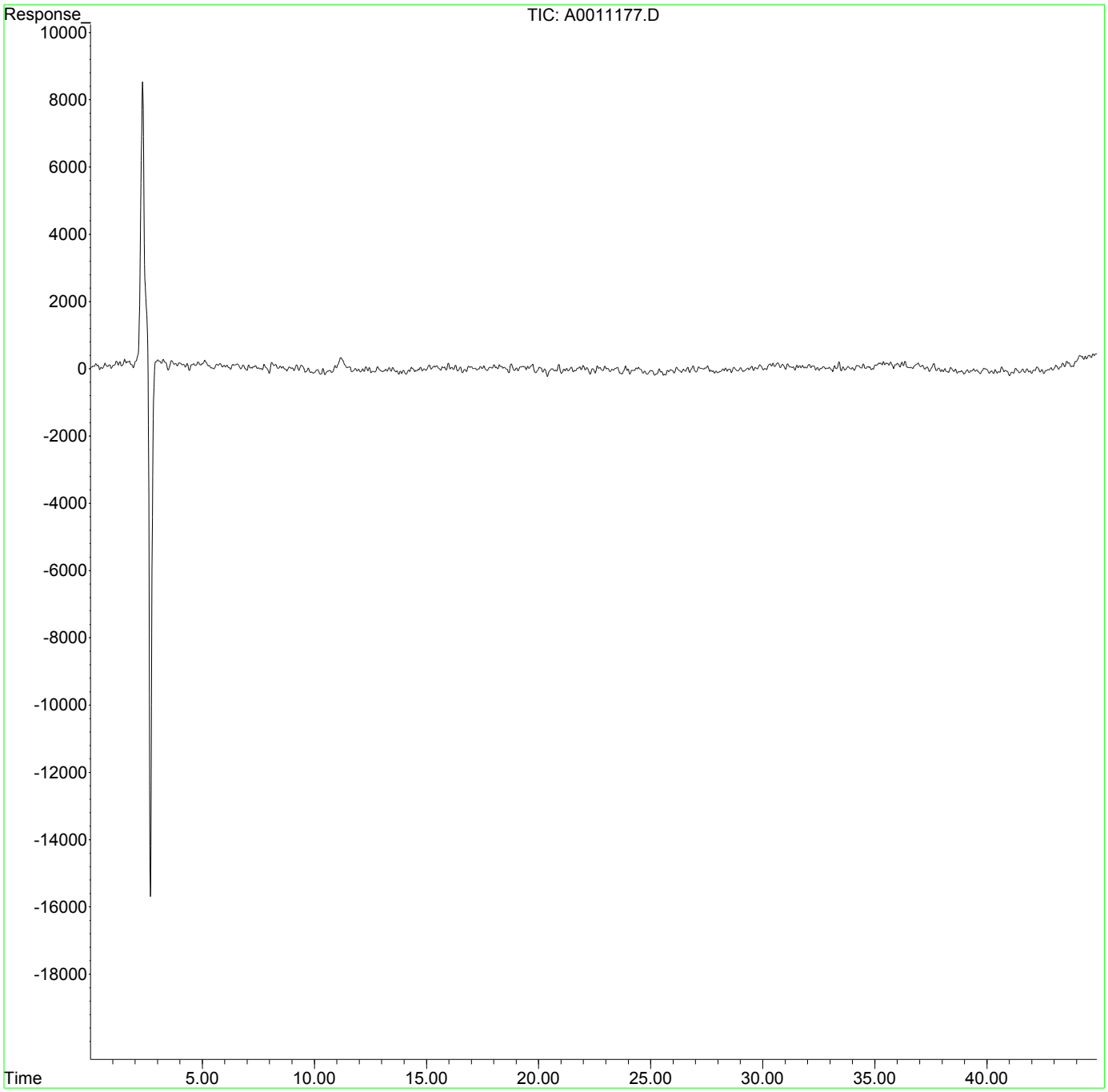
(f)=RT Delta > 1/2 Window (m)=manual int.

1st 02/23/24
2nd 02/27/24

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011177.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 04:24:17
Operator : KProcopio
Sample : R2401280-20
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:15:26 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:15:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



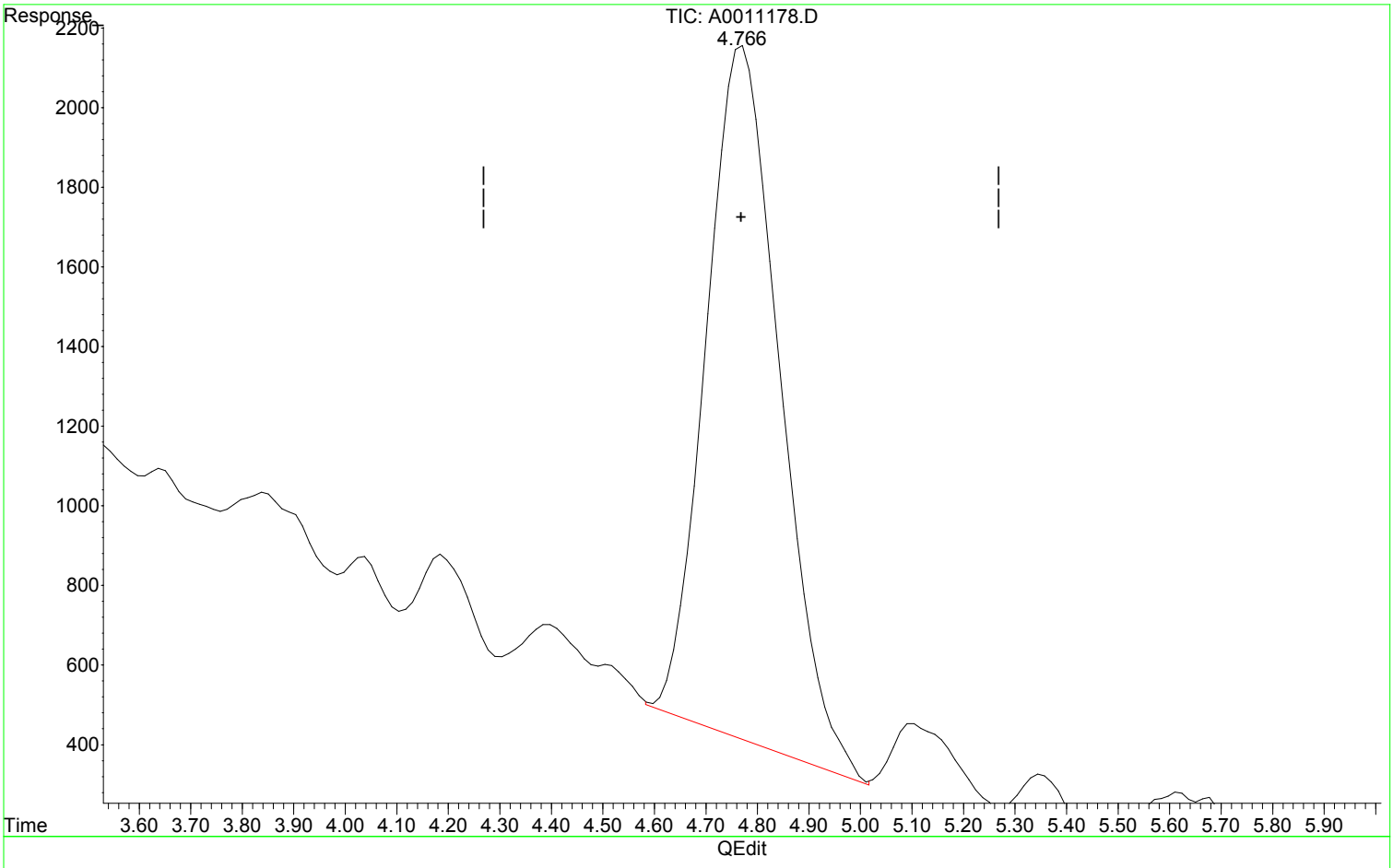
1st 02/23/24
2nd 02/27/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011178.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 05:11:24
Operator : KProcopio
Sample : R2401280-22
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:15:28 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:15:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.766min 2.749 ppm m

response 173912

Manual Integration:

After

Poor integration.

02/23/24

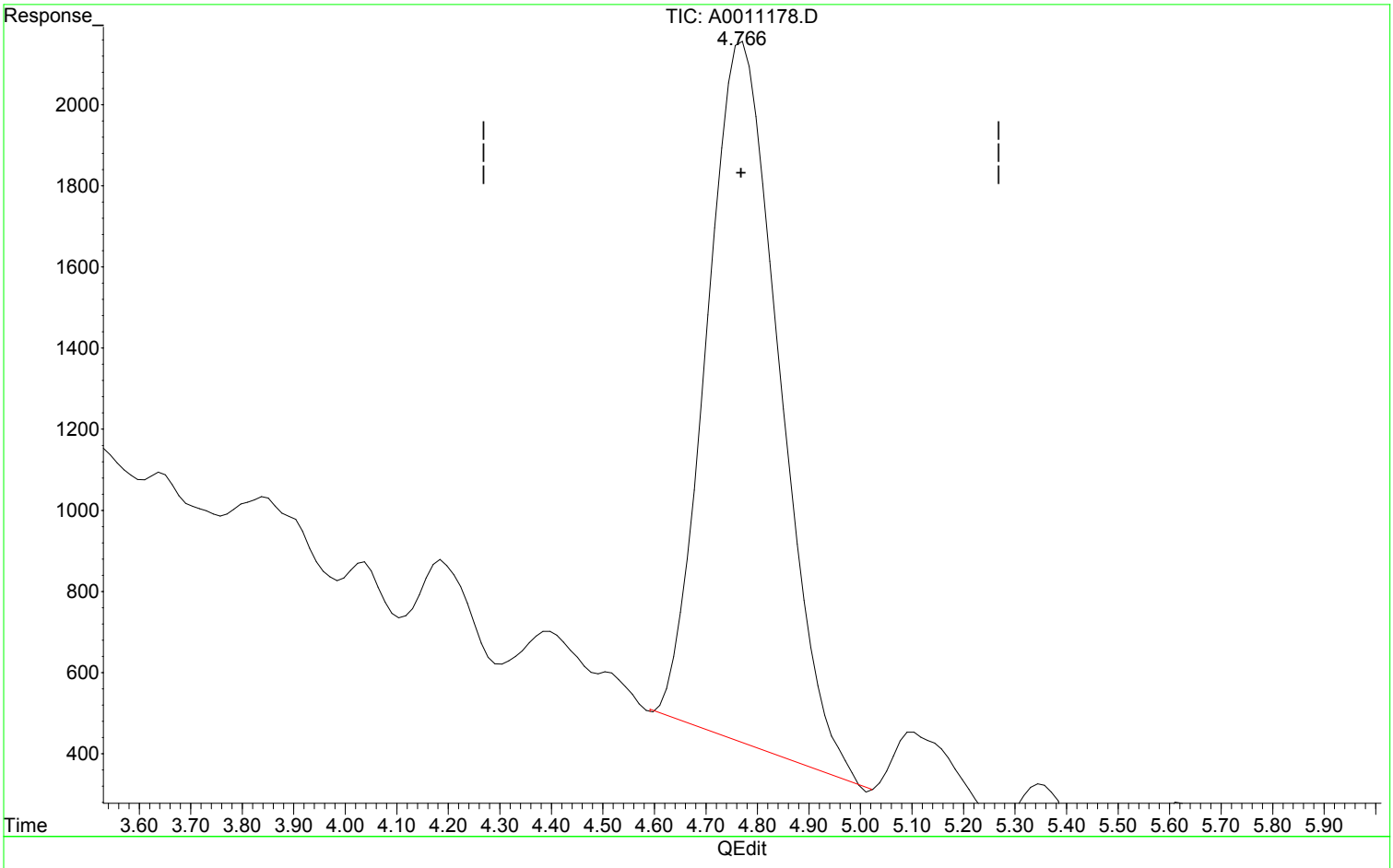
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011178.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 05:11:24
Operator : KProcopio
Sample : R2401280-22
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:15:28 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:15:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.772min 2.699 ppm

response 170722

Manual Integration:

Before

02/23/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011178.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 05:11:24
Operator : KProcopio
Sample : R2401280-22
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:15:28 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:15:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	4.766	173912	2.749	ppm	m
5) T	Propionic Acid	0.000	0	N.D.	ppm	d
6) T	Butyric Acid	0.000	0	N.D.	ppm	

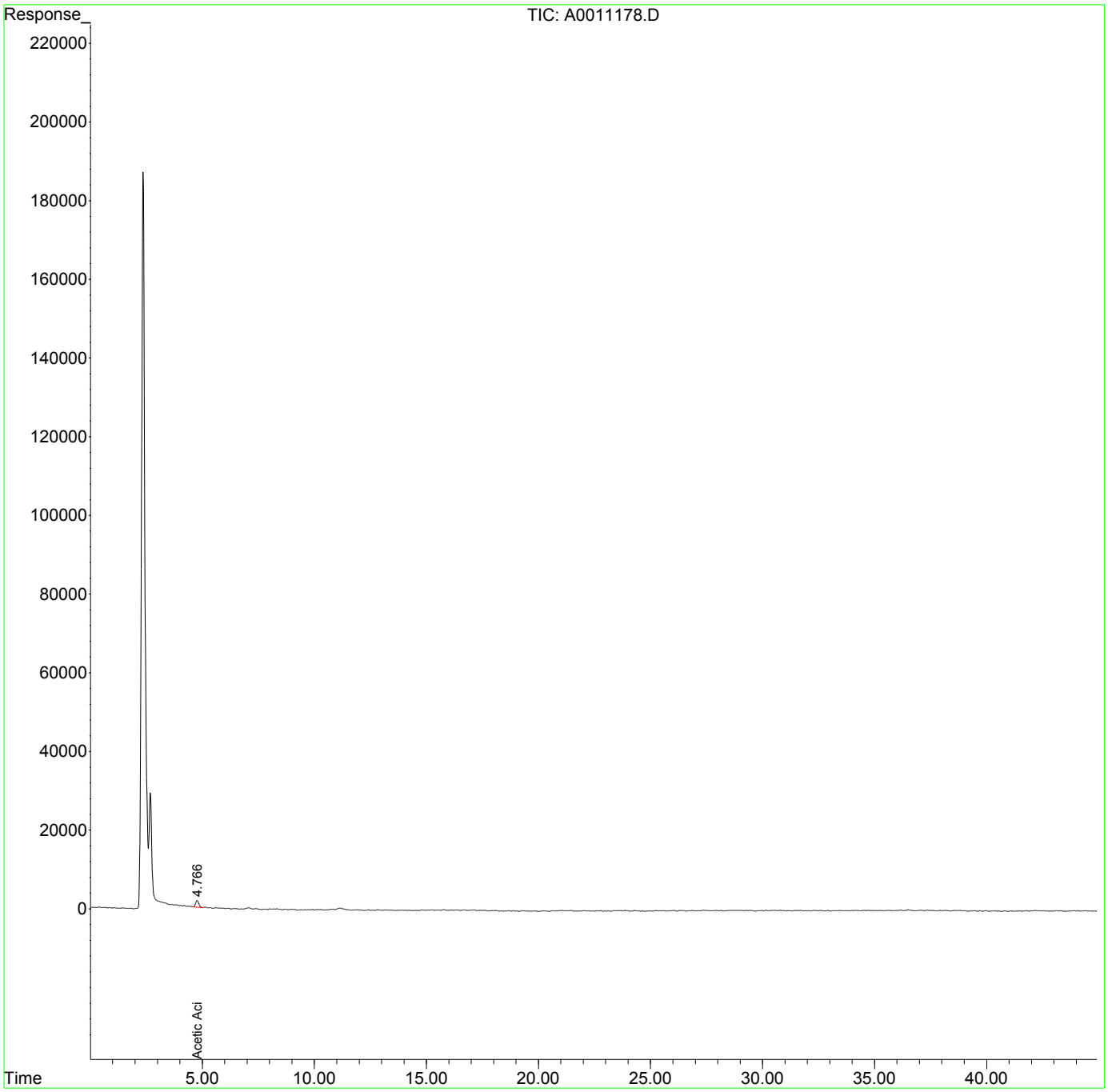
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011178.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 05:11:24
Operator : KProcopio
Sample : R2401280-22
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:15:28 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:15:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

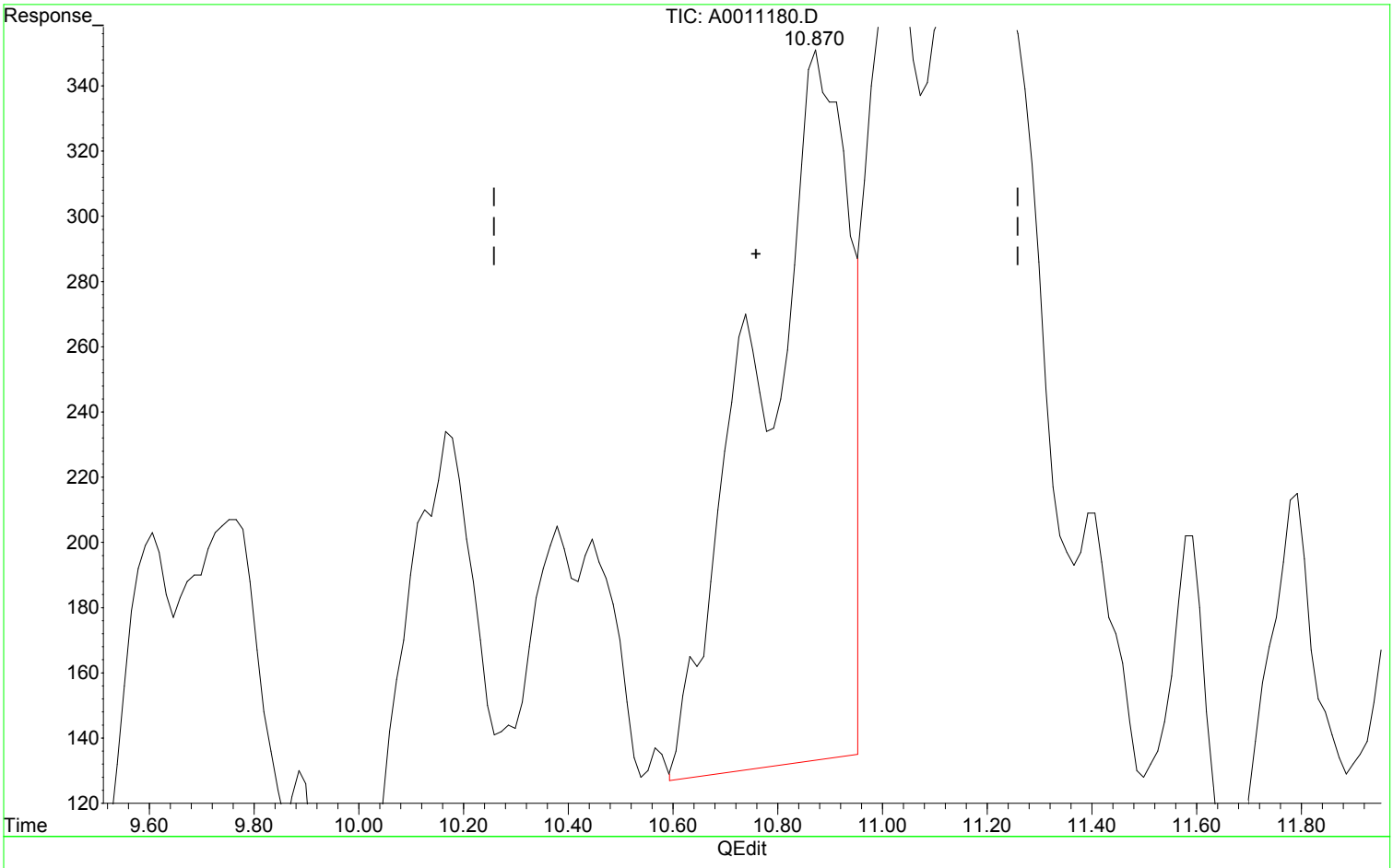


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011180.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 06:45:50
Operator : KProcopio
Sample : R2401280-23
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:42:20 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:42:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.870min 0.440 ppm m

response 27249

Manual Integration:

After

Poor integration.

02/23/24

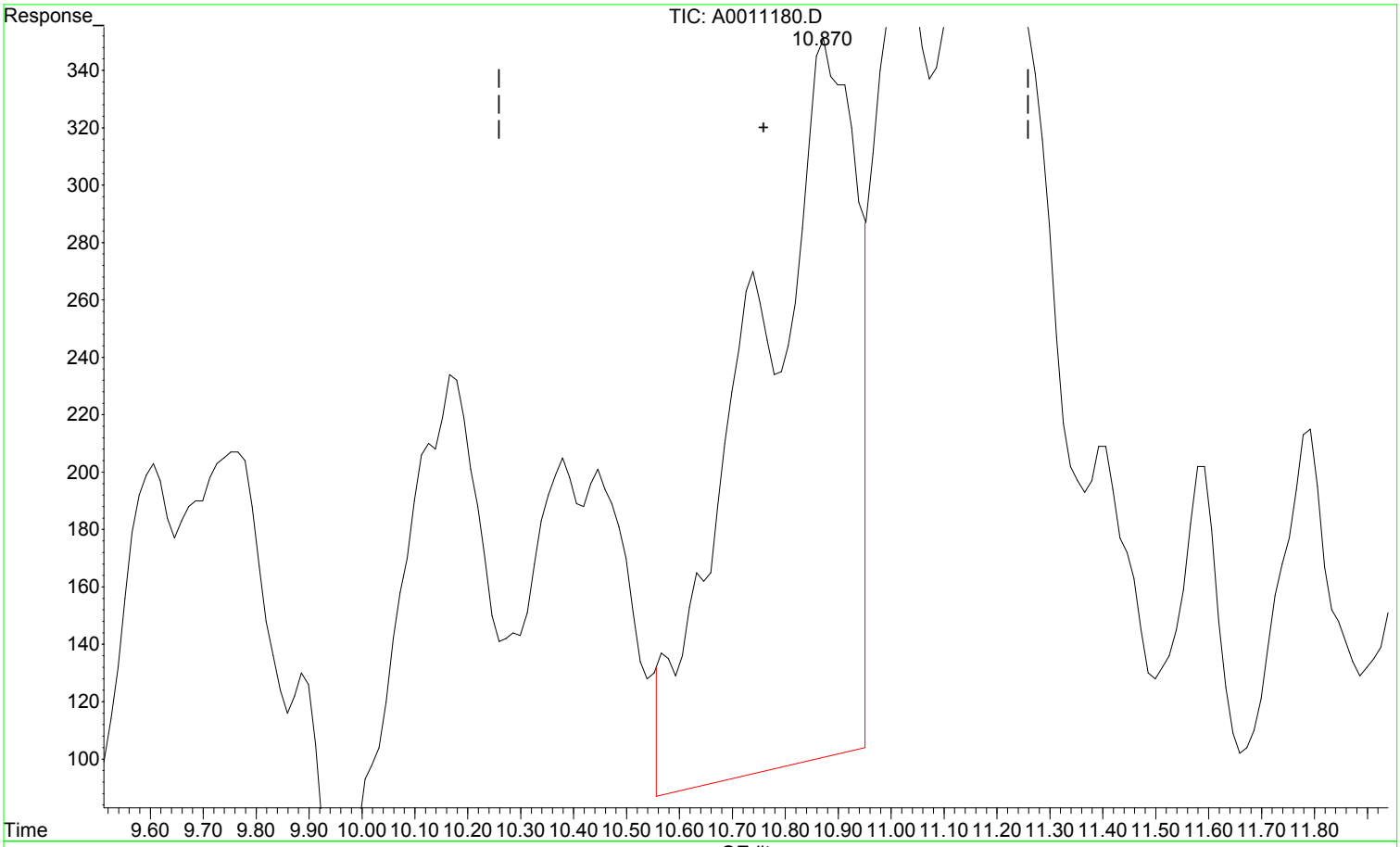
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011180.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 06:45:50
Operator : KProcopio
Sample : R2401280-23
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:42:20 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:42:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.888min 0.544 ppm

response 33681

Manual Integration:

Before

02/23/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011180.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 06:45:50
Operator : KProcopio
Sample : R2401280-23
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:42:20 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:42:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	0.000	0	N.D.	ppm	m
3) T	Lactic Acid	4.307	14266	0.213	ppm	
4) T	Acetic Acid	0.000	0	N.D.	ppm	
5) T	Propionic Acid	10.870	27249	0.440	ppm	m
6) T	Butyric Acid	0.000	0	N.D.	ppm	d

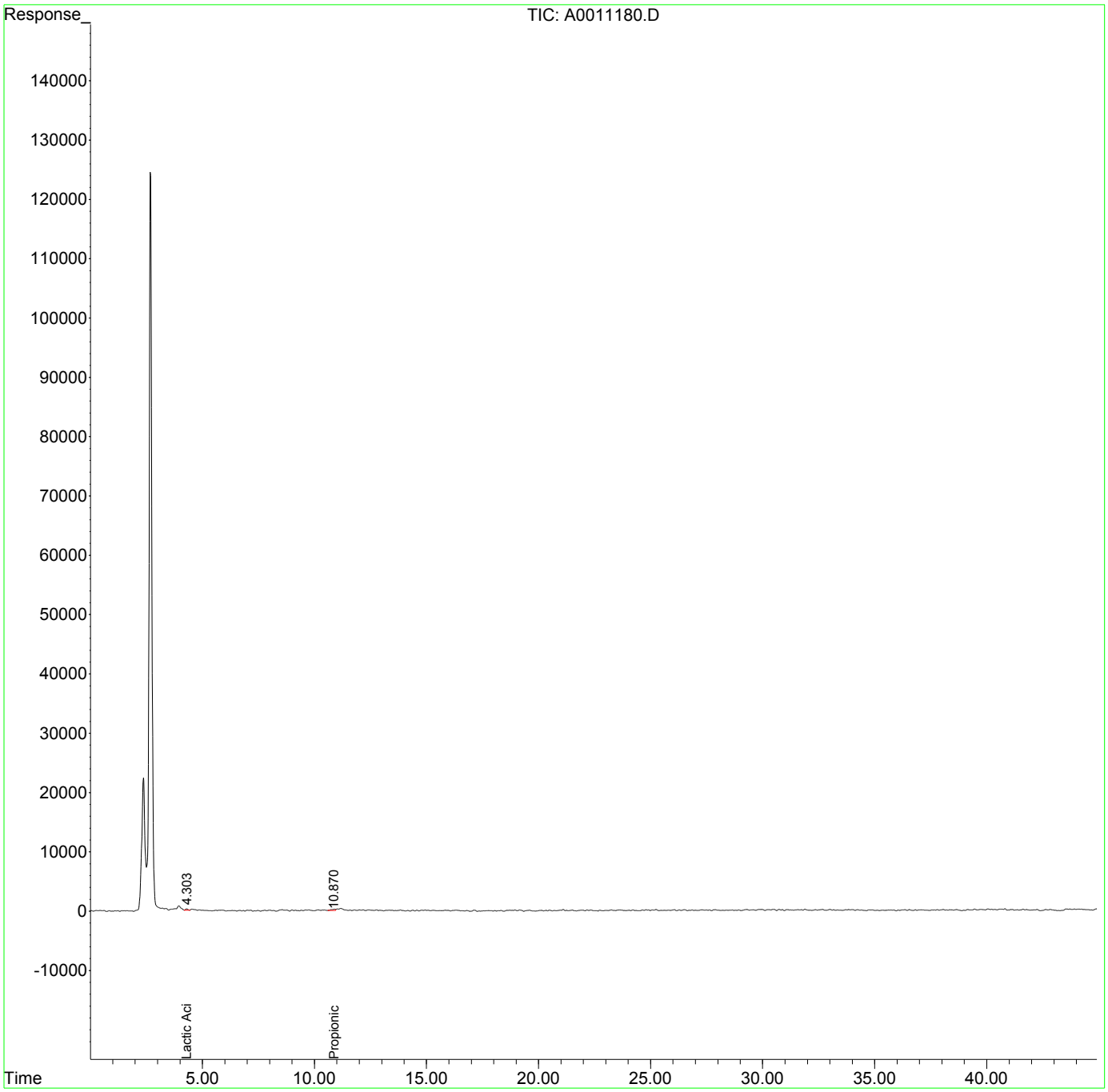
(f)=RT Delta > 1/2 Window (m)=manual int.

1st 02/23/24
2nd AF 02/27/24

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011180.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 06:45:50
Operator : KProcopio
Sample : R2401280-23
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:42:20 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:42:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



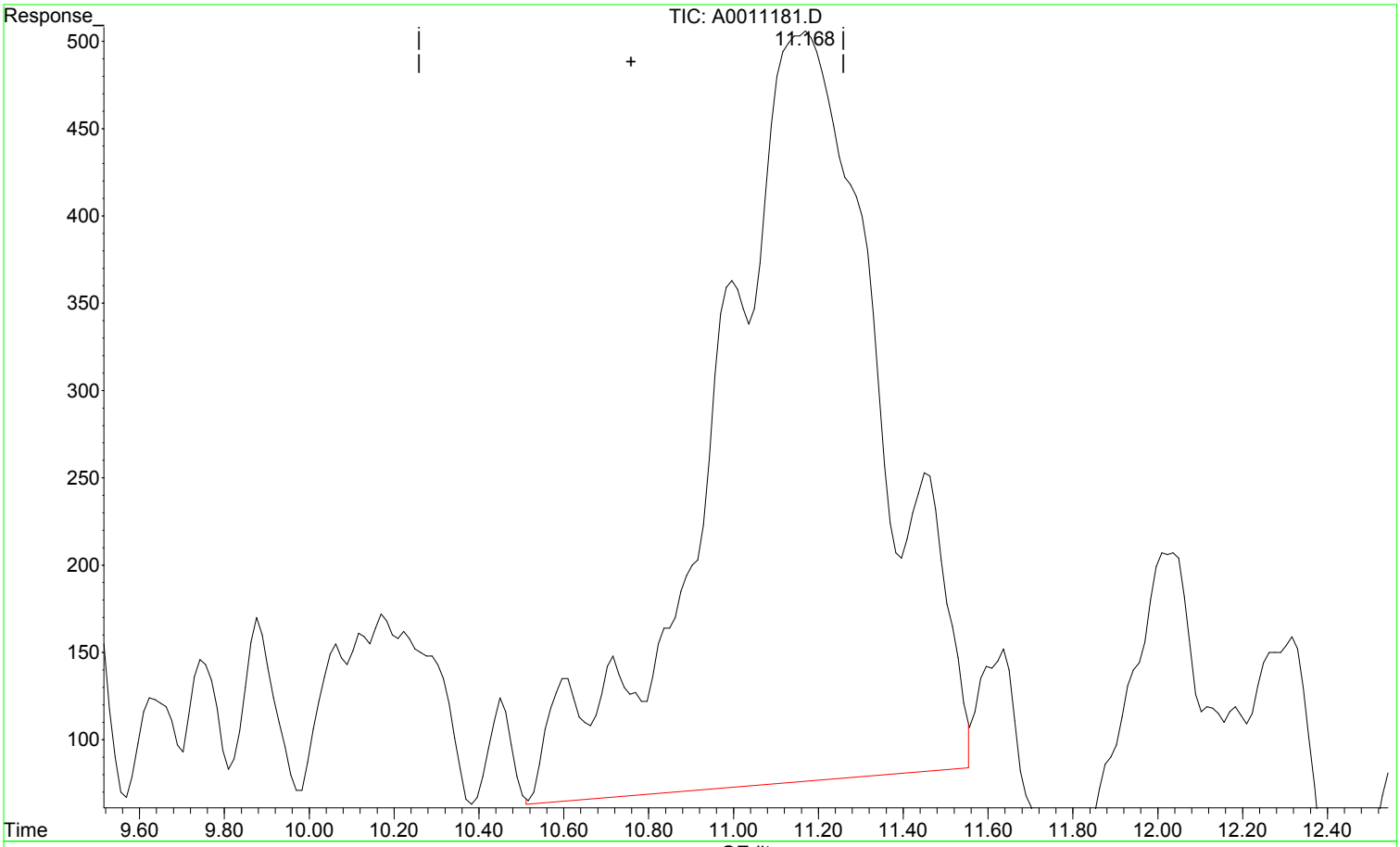
1st 02/23/24
2nd 02/27/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011181.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 07:32:56
Operator : KProcopio
Sample : R2401280-24
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:42:23 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:42:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

11.168min 1.877 ppm m

response 116275

Manual Integration:

After

Poor integration.

02/23/24

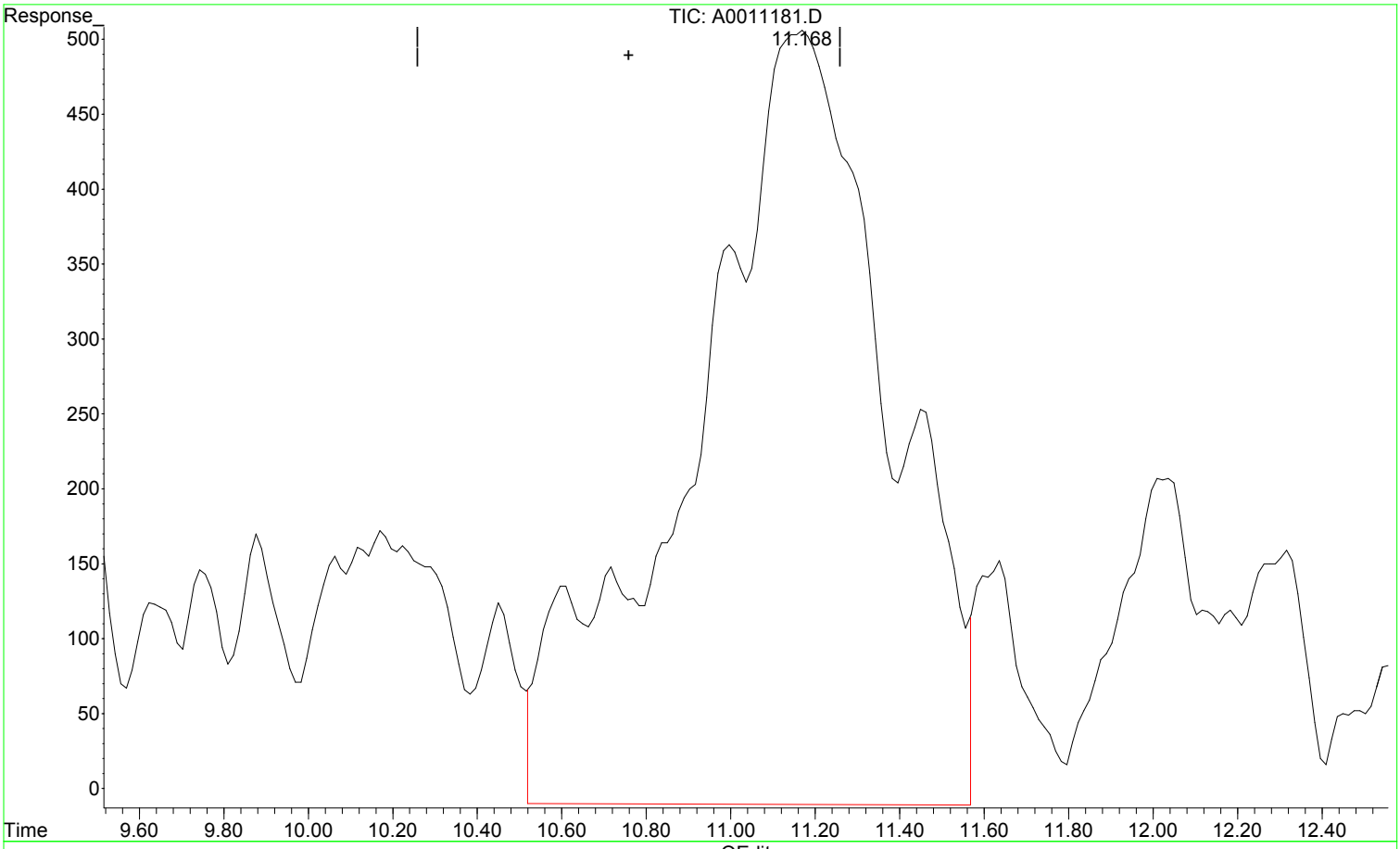
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011181.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 07:32:56
Operator : KProcopio
Sample : R2401280-24
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:42:23 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:42:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

11.166min 2.731 ppm

response 169130

Manual Integration:

Before

02/23/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011181.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 07:32:56
Operator : KProcopio
Sample : R2401280-24
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:42:23 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:42:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	0.000	0	N.D.	ppm	d
5) T	Propionic Acid	0.000	0	N.D.	ppm	d
6) T	Butyric Acid	0.000	0	N.D.	ppm	d

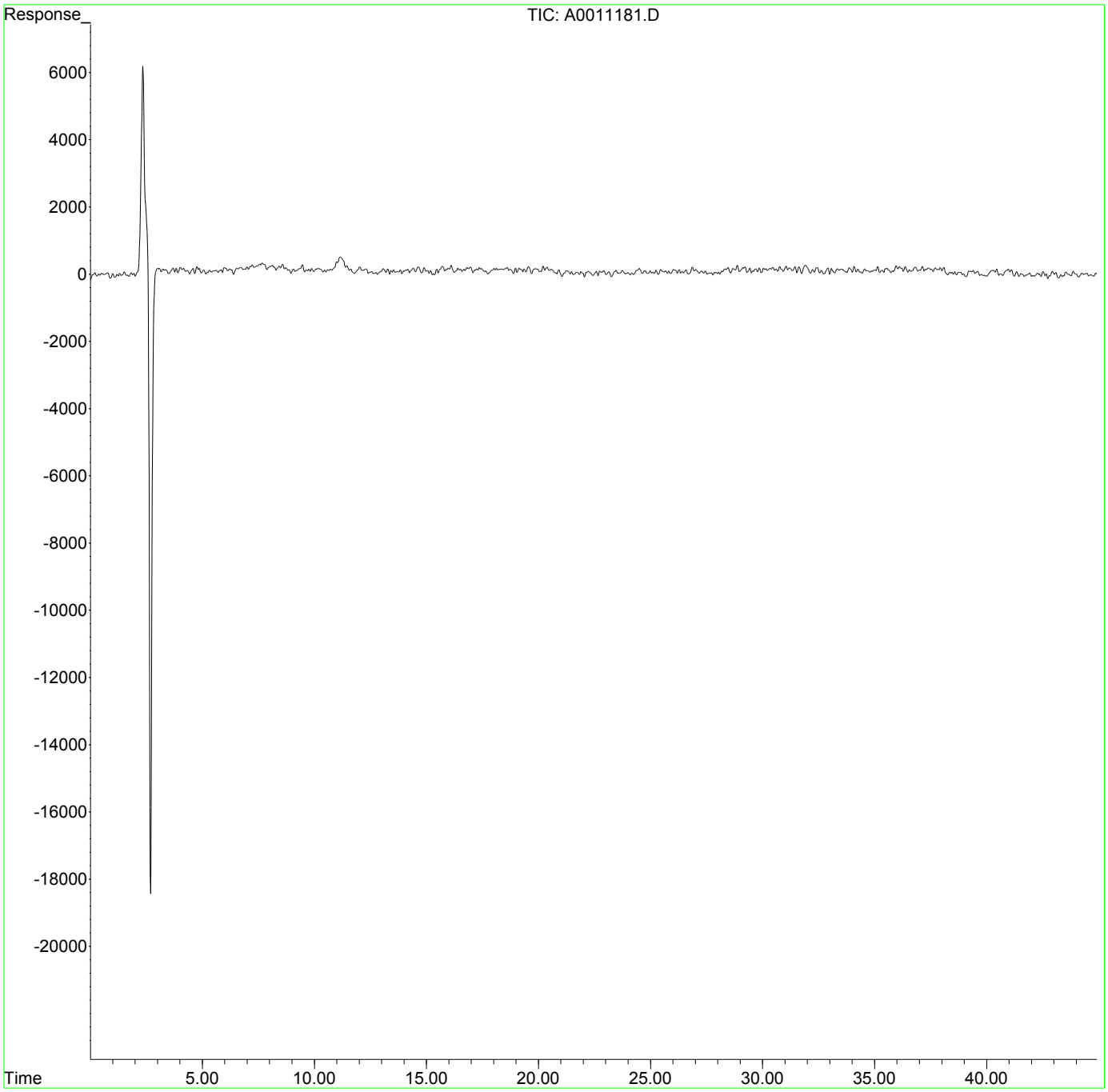
(f)=RT Delta > 1/2 Window (m)=manual int.

1st 02/23/24
2nd 02/27/24

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011181.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 07:32:56
Operator : KProcopio
Sample : R2401280-24
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:42:23 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:42:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011182.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 08:20:06
Operator : KProcopio
Sample : R2401280-25
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:42:25 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:42:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	3.953	54139	0.085	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	0.000	0	N.D.	ppm	
5) T	Propionic Acid	0.000	0	N.D.	ppm	d
6) T	Butyric Acid	0.000	0	N.D.	ppm	

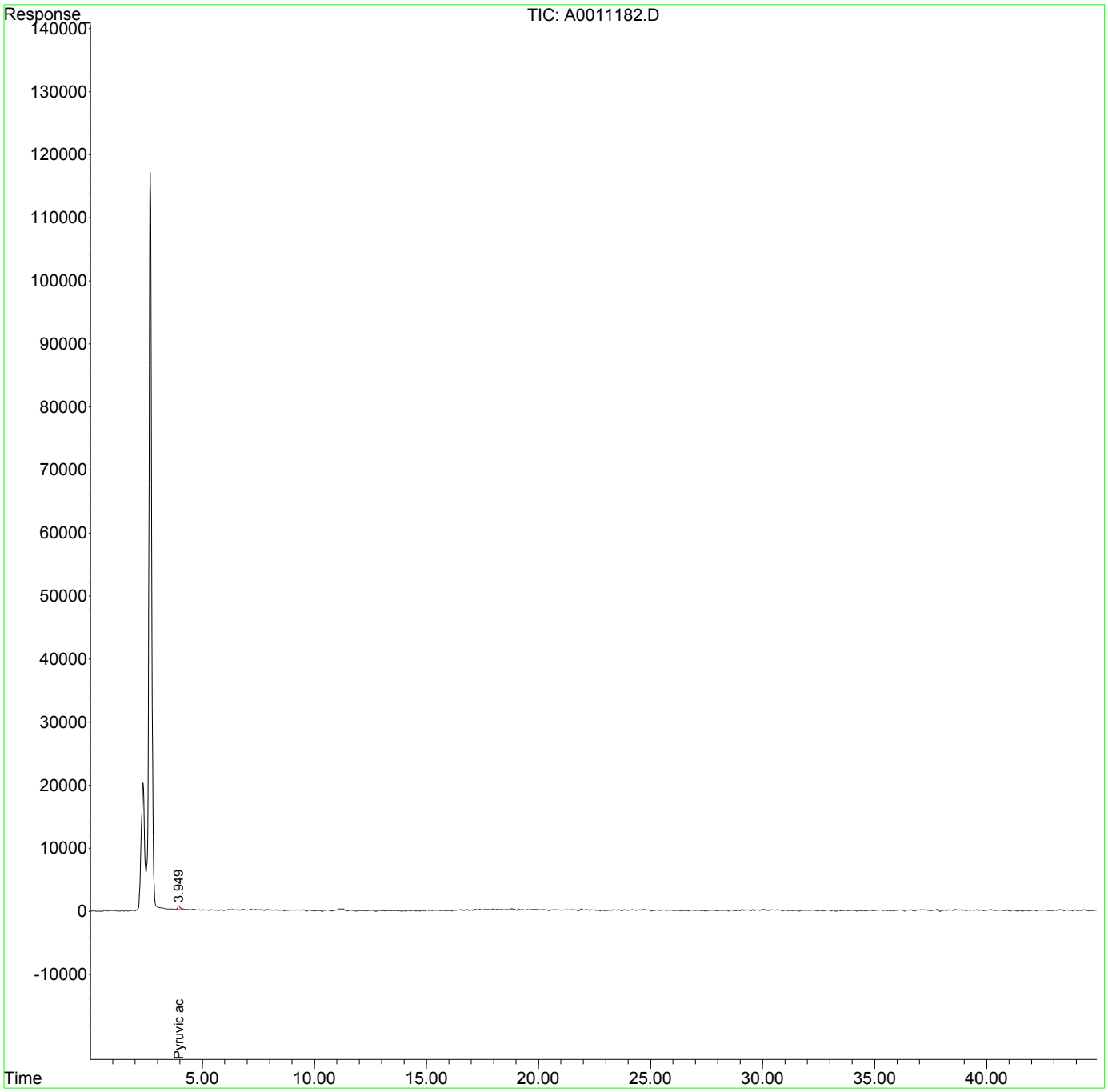
(f)=RT Delta > 1/2 Window (m)=manual int.

1st 02/23/24
2nd AF 02/27/24

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011182.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 08:20:06
Operator : KProcopio
Sample : R2401280-25
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:42:25 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:42:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011139.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 13:41:15
Operator : EDeGray
Sample : MB
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:23 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	0.000	0	N.D.	ppm	
5) T	Propionic Acid	0.000	0	N.D.	ppm	d
6) T	Butyric Acid	0.000	0	N.D.	ppm	d

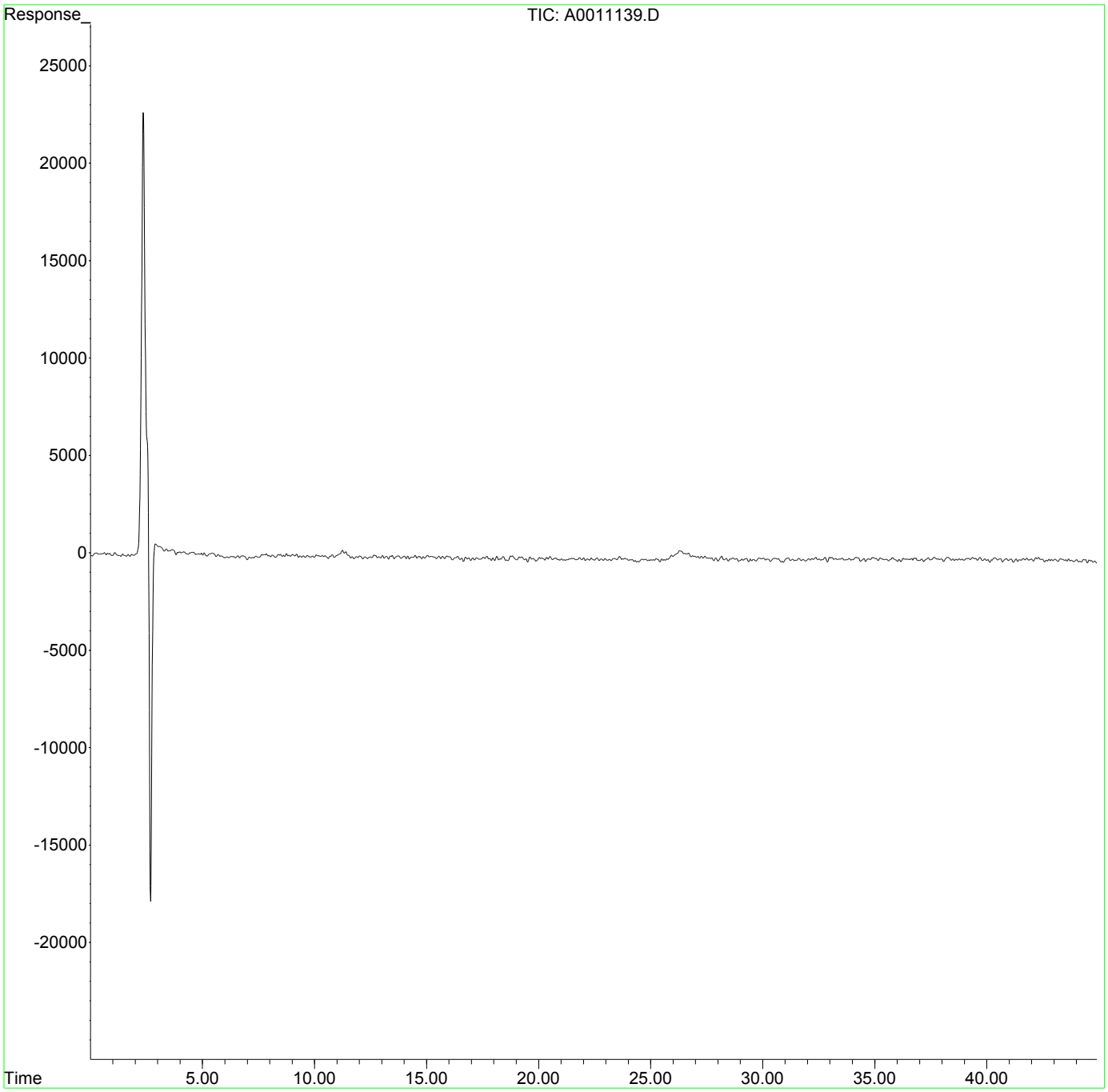
(f)=RT Delta > 1/2 Window (m)=manual int.

1st EDG 02/21/24
2nd AM 02/21/24

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011139.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 13:41:15
Operator : EDeGray
Sample : MB
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:23 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



1st 02/23/24
2nd 02/27/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011163.D
Signal(s) : dad1A.ch Wrong date/time 17:20:57 02/21/24 KP 2/26/24
Acq On : ~~30-Dec-2000, 09:47:55~~
Operator : KProcopio
Sample : MB
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:28 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	0.000	0	N.D.	ppm	
5) T	Propionic Acid	0.000	0	N.D.	ppm	d
6) T	Butyric Acid	0.000	0	N.D.	ppm	d

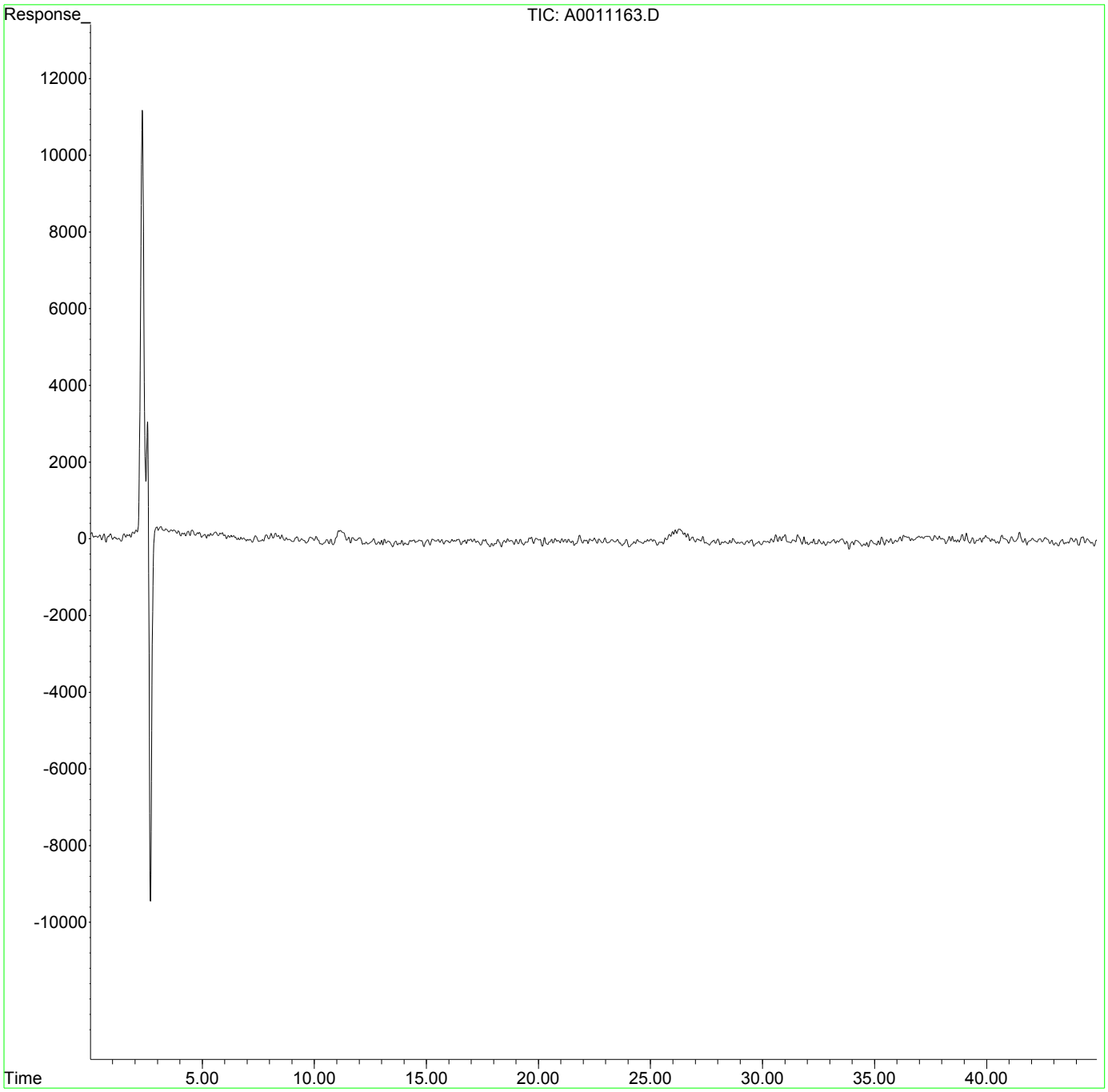
(f)=RT Delta > 1/2 Window (m)=manual int.

1st 02/23/24
2nd 02/27/24

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011163.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 09:47:55
Operator : KProcopio
Sample : MB
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:28 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

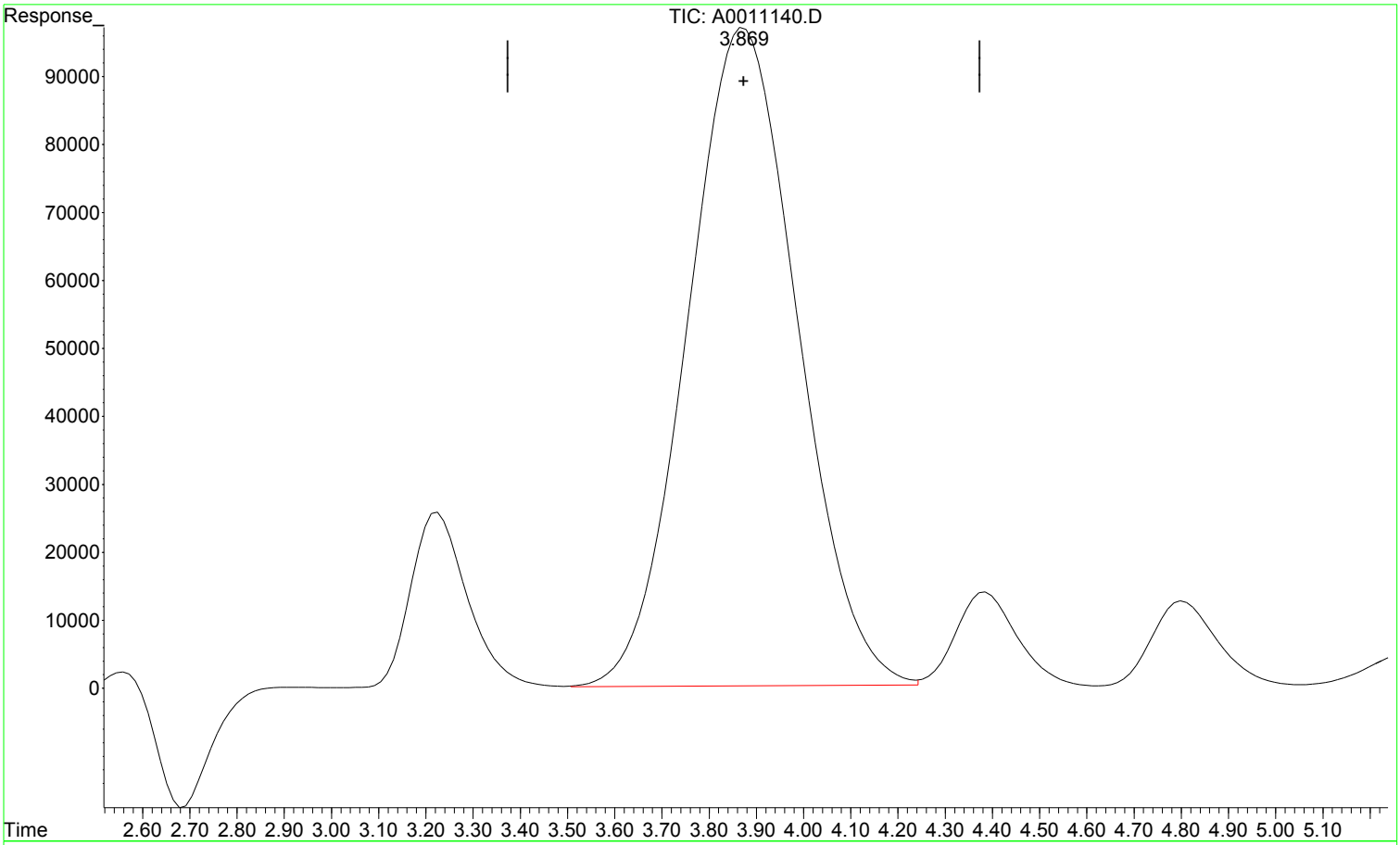


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011140.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:04:00
Operator : EDeGray
Sample : LCS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:25 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(2) Pyruvic acid (T)

3.869min 24.583 ppm m

response 15641731

Manual Integration:

After

Poor integration.

02/21/24

(+) = Expected Retention Time

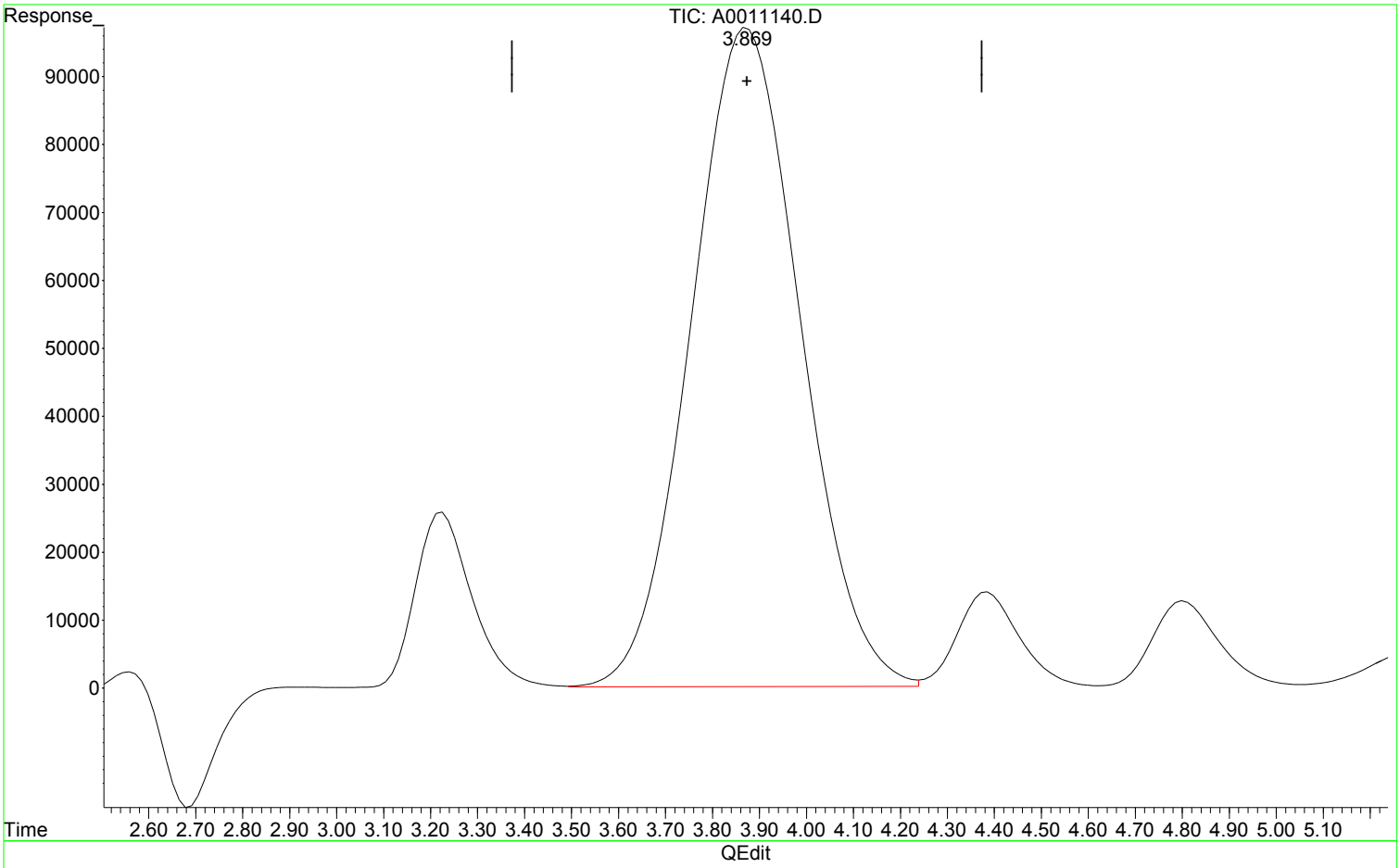
1st EDG 02/21/24
2nd AM 02/21/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011140.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:04:00
Operator : EDeGray
Sample : LCS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:25 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(2) Pyruvic acid (T)

3.874min 24.665 ppm

response 15694225

Manual Integration:

Before

02/21/24

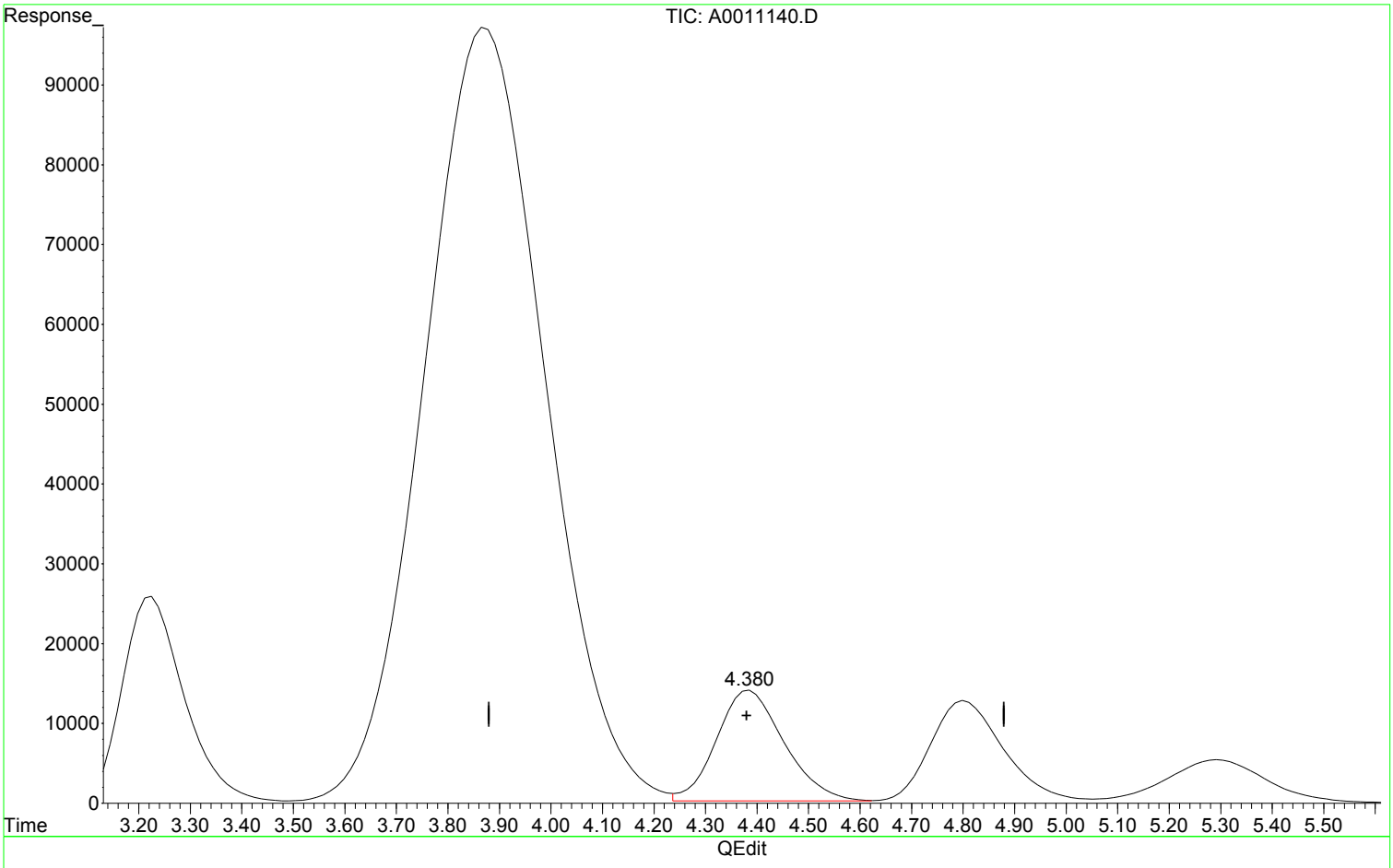
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011140.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:04:00
Operator : EDeGray
Sample : LCS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:25 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)

4.380min 18.896 ppm m

response 1264055

Manual Integration:

After

Poor integration.

02/21/24

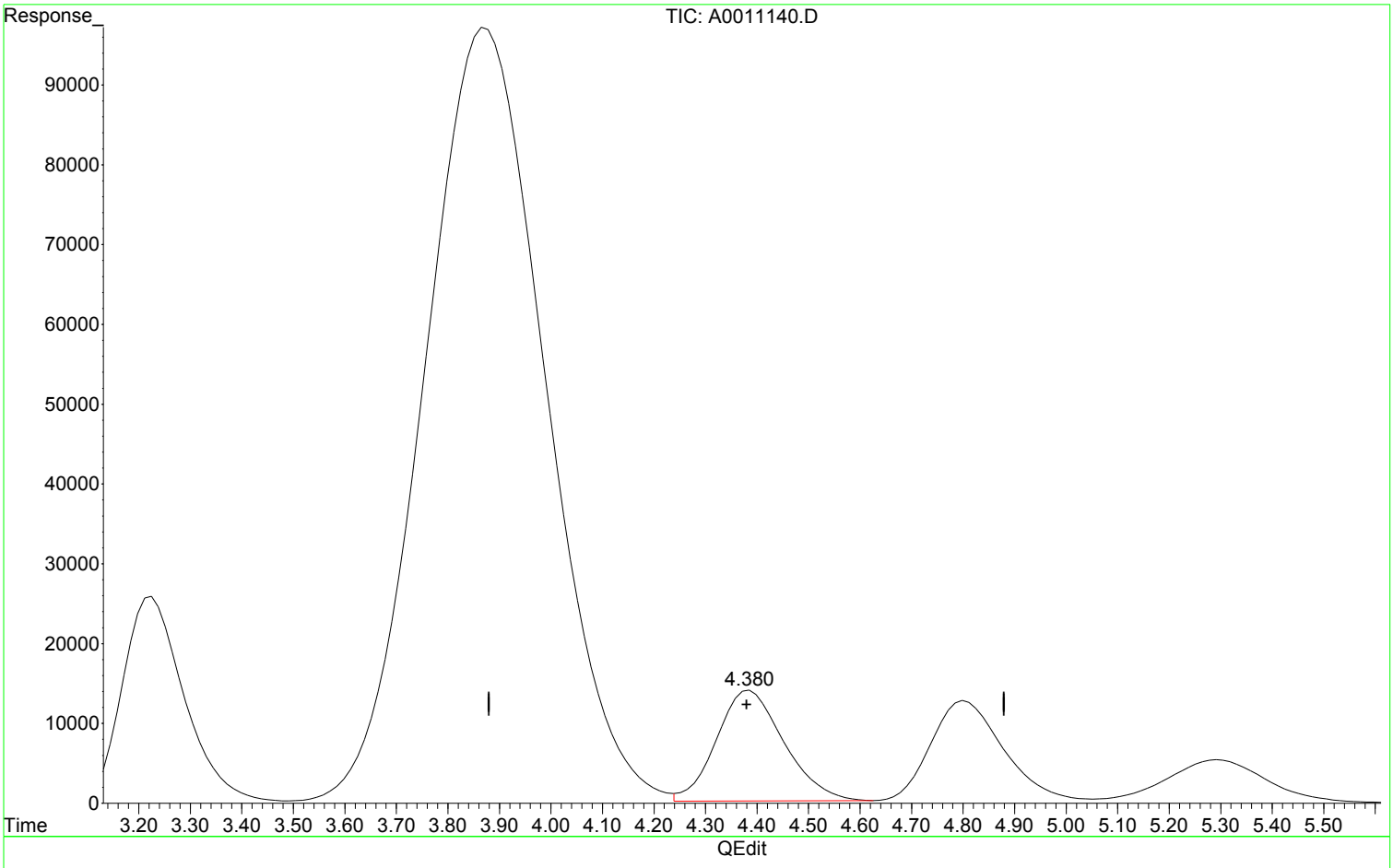
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011140.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:04:00
Operator : EDeGray
Sample : LCS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:25 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)

4.387min 18.905 ppm

response 1264629

Manual Integration:

Before

02/21/24

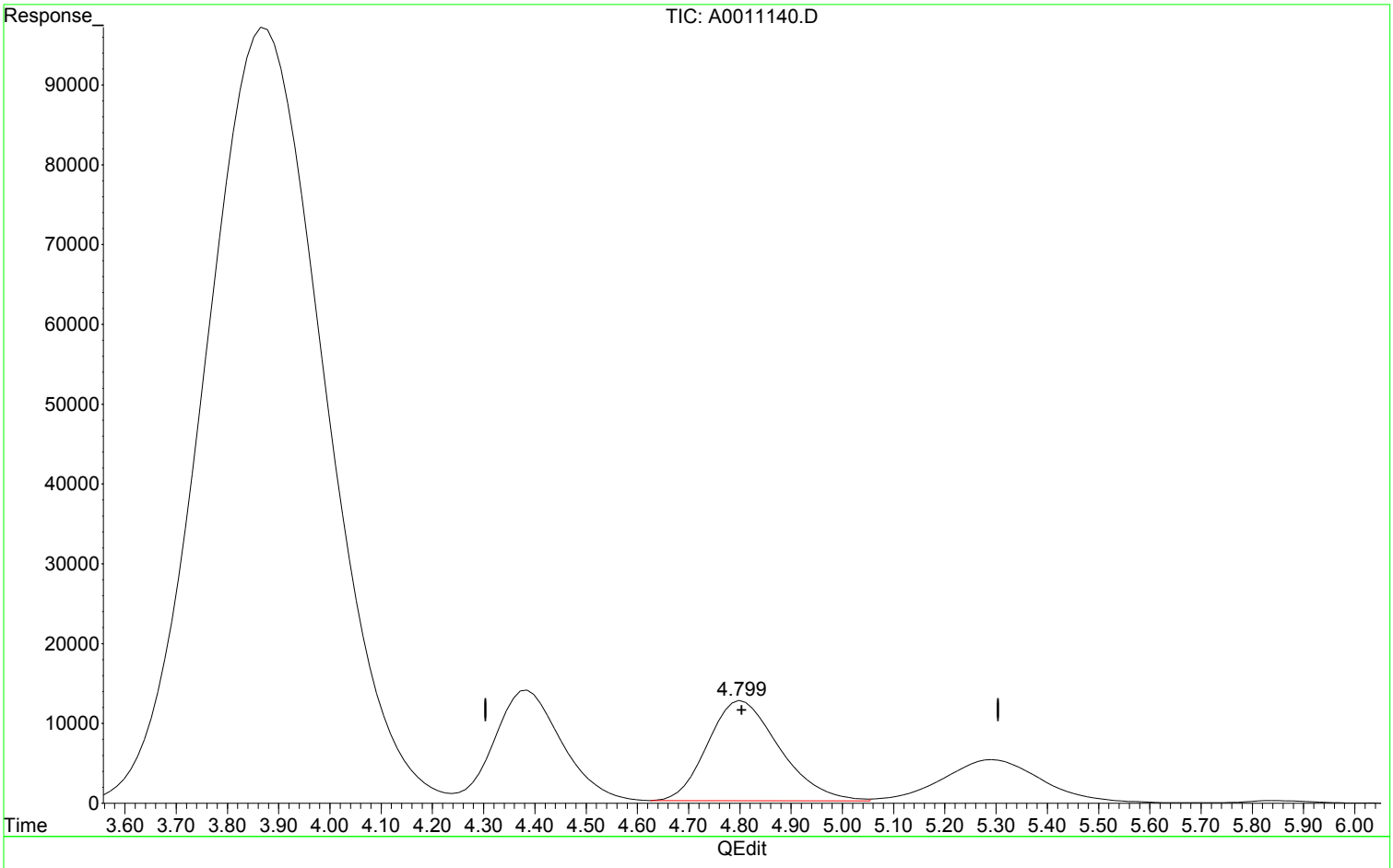
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011140.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:04:00
Operator : EDeGray
Sample : LCS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:25 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.799min 19.346 ppm m

response 1223725

Manual Integration:

After

Poor integration.

02/21/24

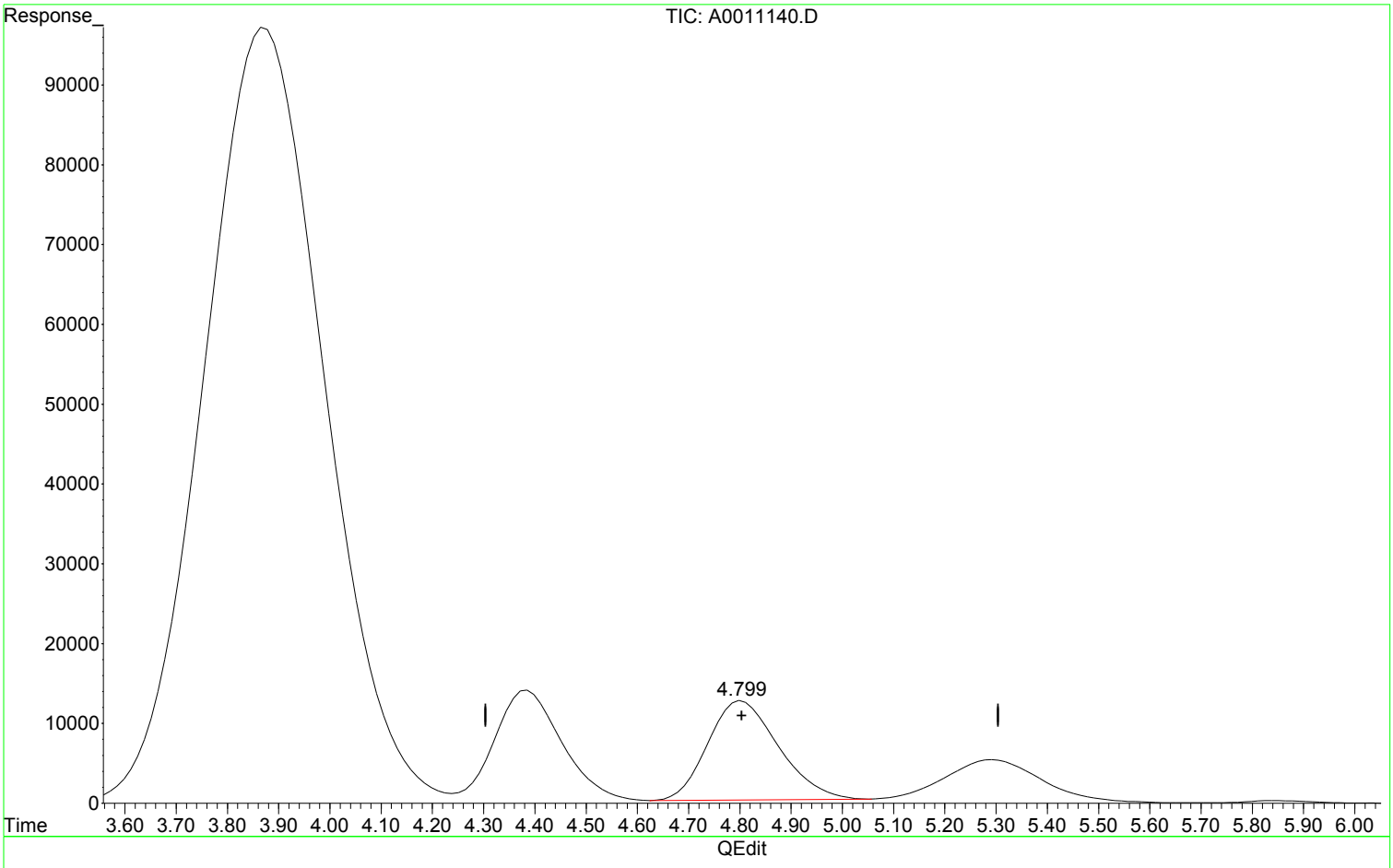
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011140.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:04:00
Operator : EDeGray
Sample : LCS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:25 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.806min 18.829 ppm

response 1190992

Manual Integration:

Before

02/21/24

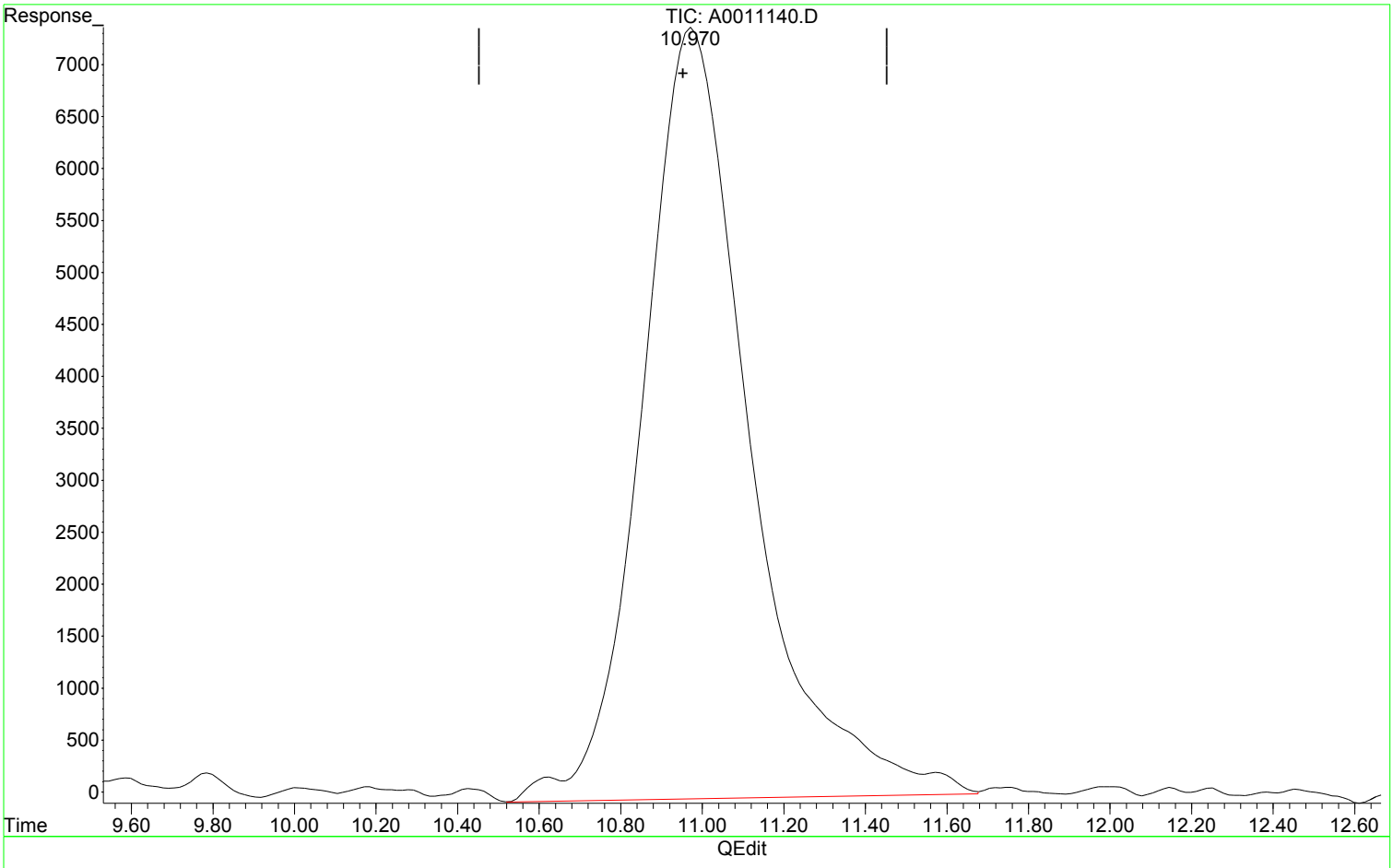
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011140.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:04:00
Operator : EDeGray
Sample : LCS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:25 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.970min 21.882 ppm m

response 1355340

Manual Integration:

After

Poor integration.

02/21/24

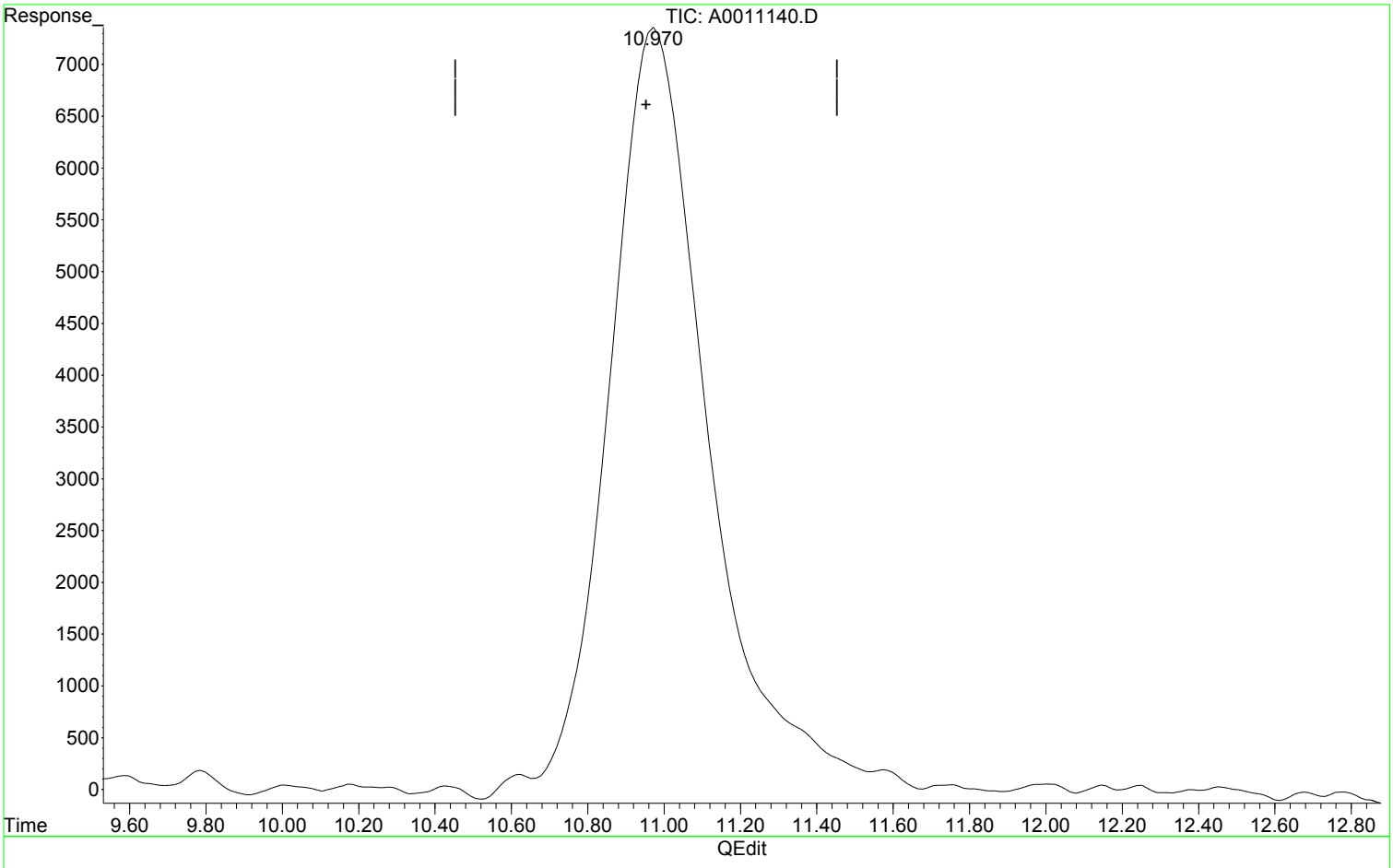
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011140.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:04:00
Operator : EDeGray
Sample : LCS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:25 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.977min 23.415 ppm

response 1450290

Manual Integration:

Before

02/21/24

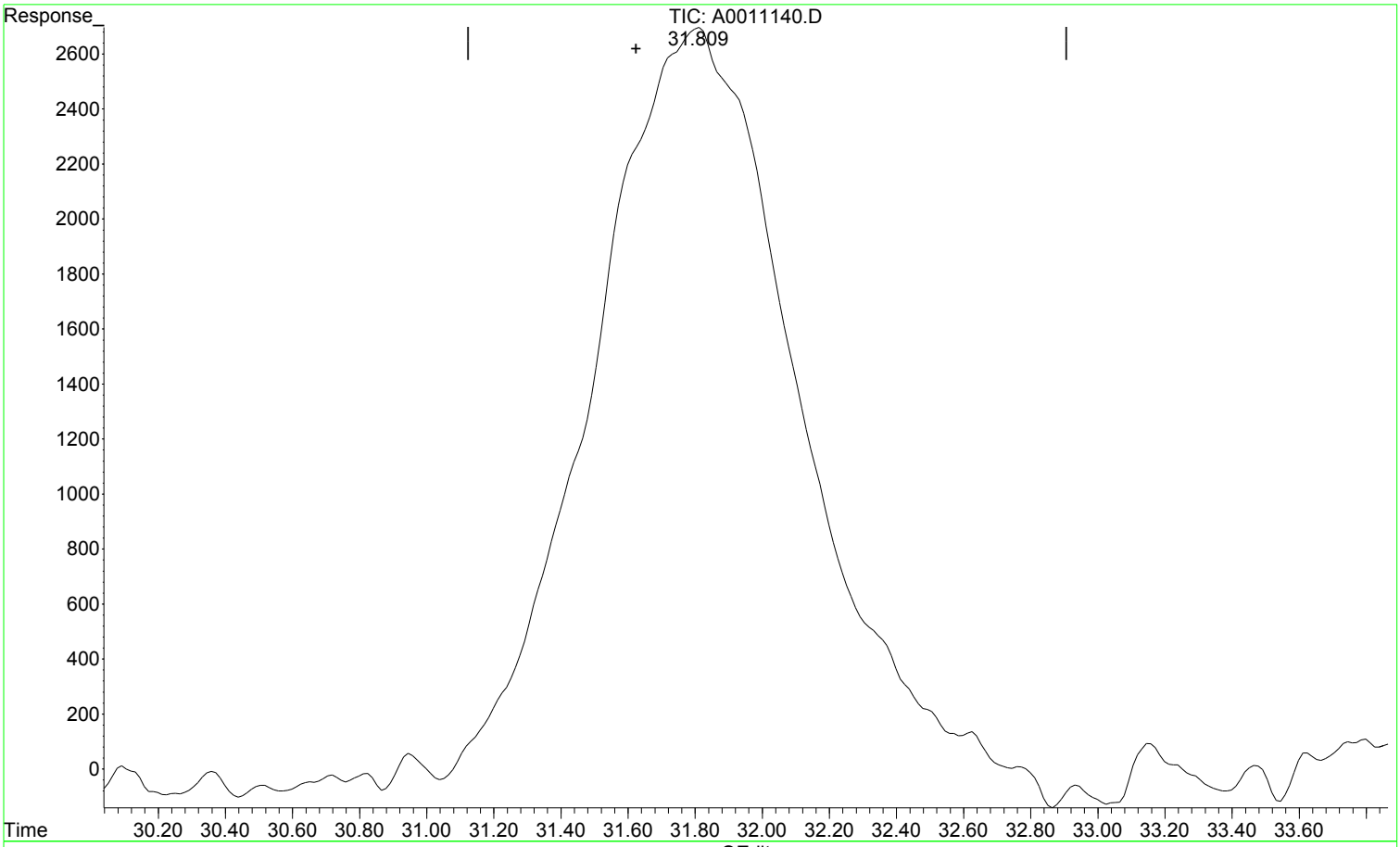
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011140.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:04:00
Operator : EDeGray
Sample : LCS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:25 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

31.808min 21.631 ppm m

response 1237215

Manual Integration:

After

Poor integration.

02/21/24

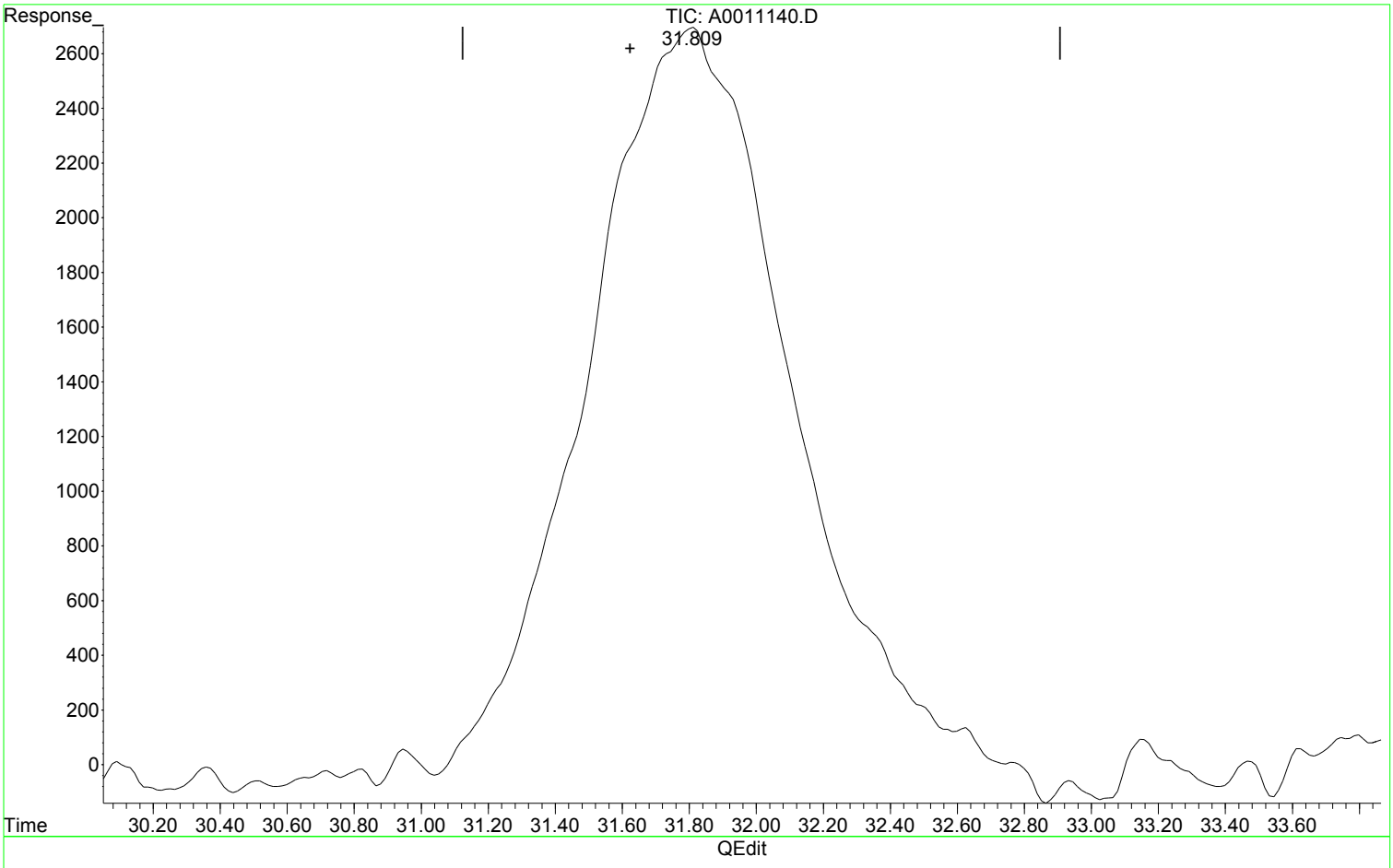
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011140.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:04:00
Operator : EDeGray
Sample : LCS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:25 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

31.806min 23.893 ppm

response 1366618

Manual Integration:

Before

02/21/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011140.D
Signal(s) : dad1A.ch
Wrong date/time, EDG 2/21/24
Acq On : 30-Dec-2000, 00:04:00
14:26:19 02/20/24
Operator : EDeGray
Sample : LCS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:25 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.227	2148359	21.569	ppm	
2) T	Pyruvic acid	3.869	15641731	24.583	ppm	m
3) T	Lactic Acid	4.380	1264055	18.896	ppm	m
4) T	Acetic Acid	4.799	1223725	19.346	ppm	m
5) T	Propionic Acid	10.970	1355340	21.882	ppm	m
6) T	Butyric Acid	31.808	1237215	21.631	ppm	m

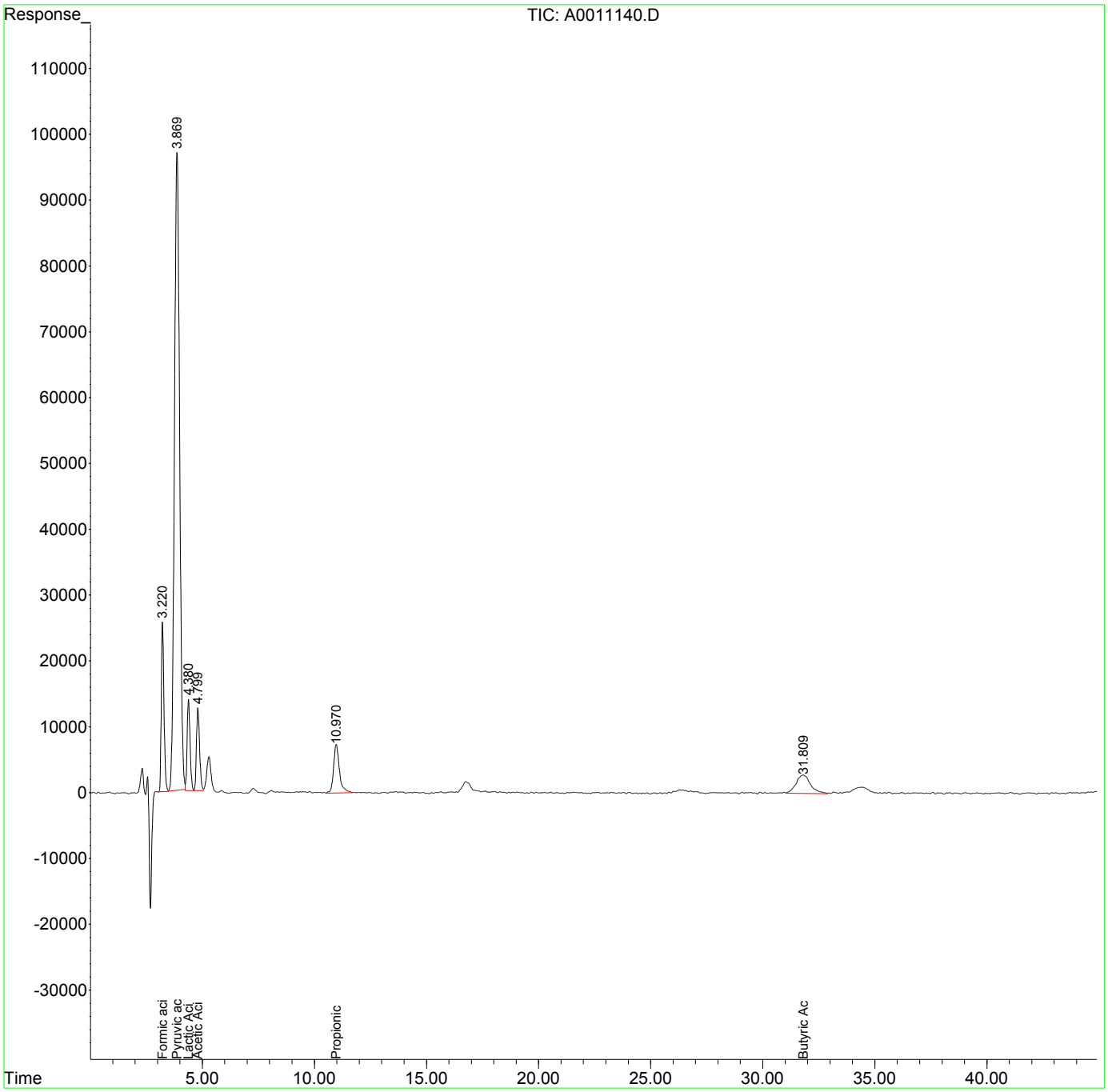
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011140.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:04:00
Operator : EDeGray
Sample : LCS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:25 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

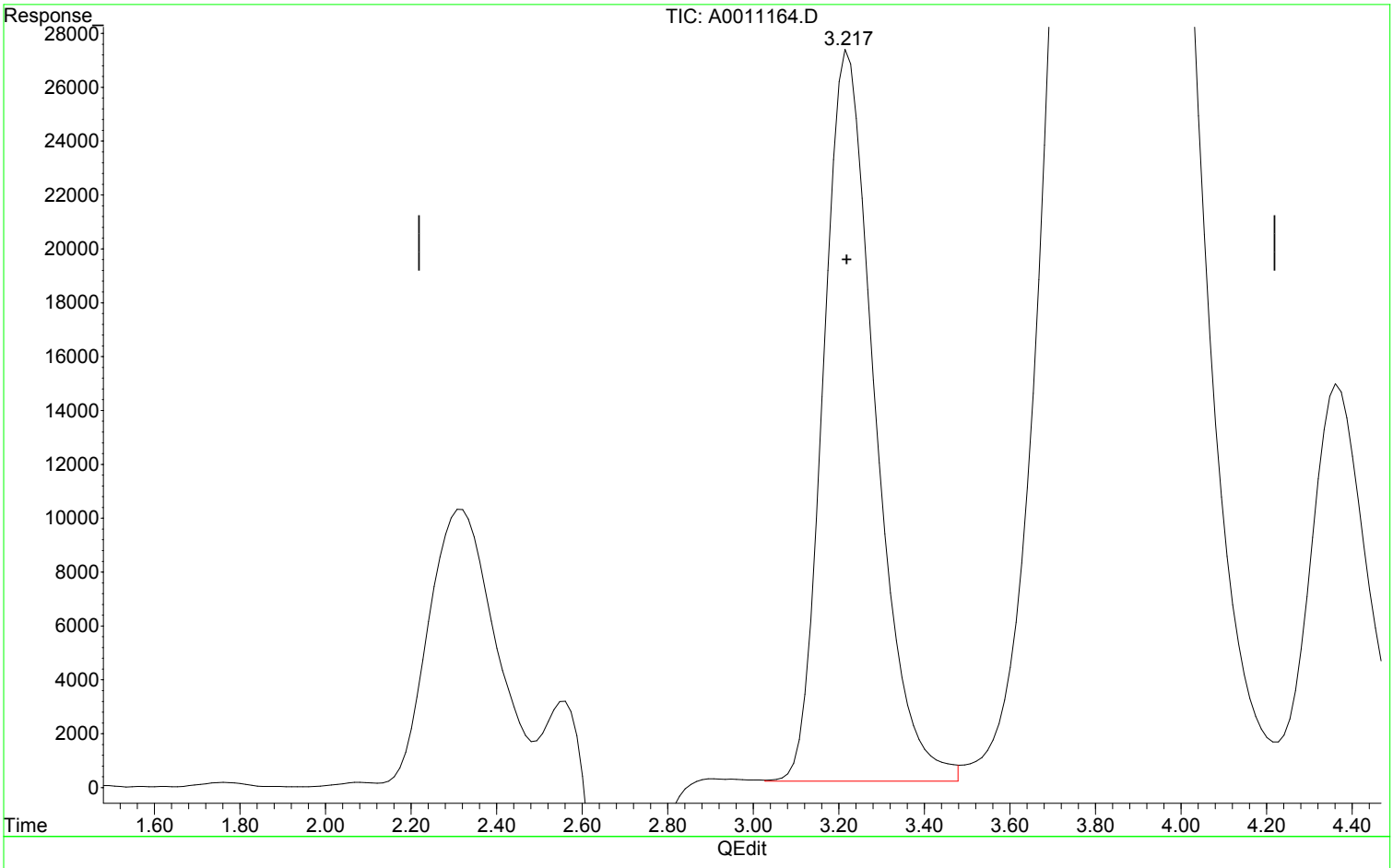


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011164.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 09:48:11
Operator : KProcopio
Sample : LCS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:30 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)

3.217min 22.915 ppm m

response 2282358

Manual Integration:

After

Poor integration.

02/23/24

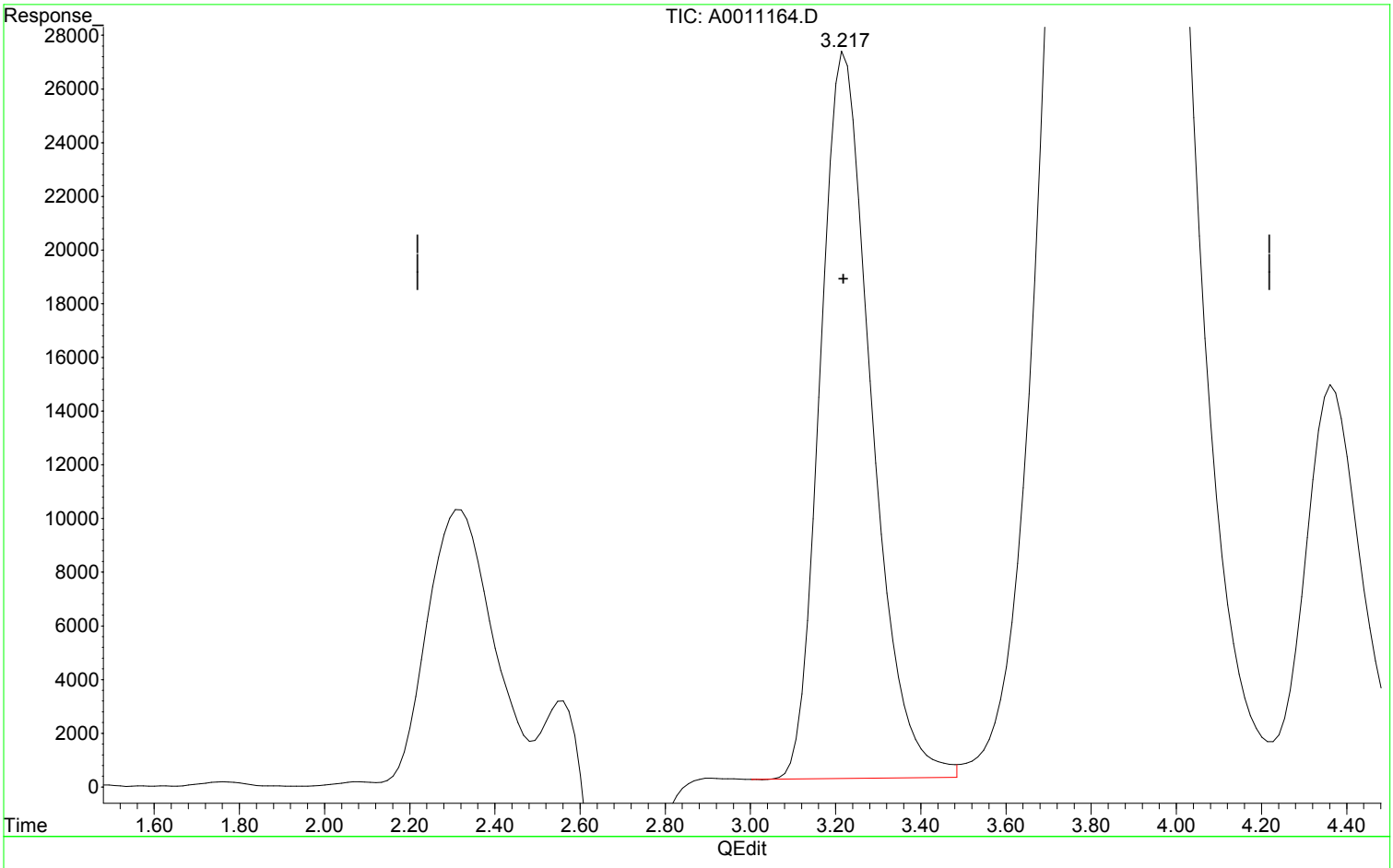
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011164.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 09:48:11
Operator : KProcopio
Sample : LCS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:30 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)

3.224min 22.717 ppm

response 2262670

Manual Integration:

Before

02/23/24

(+) = Expected Retention Time

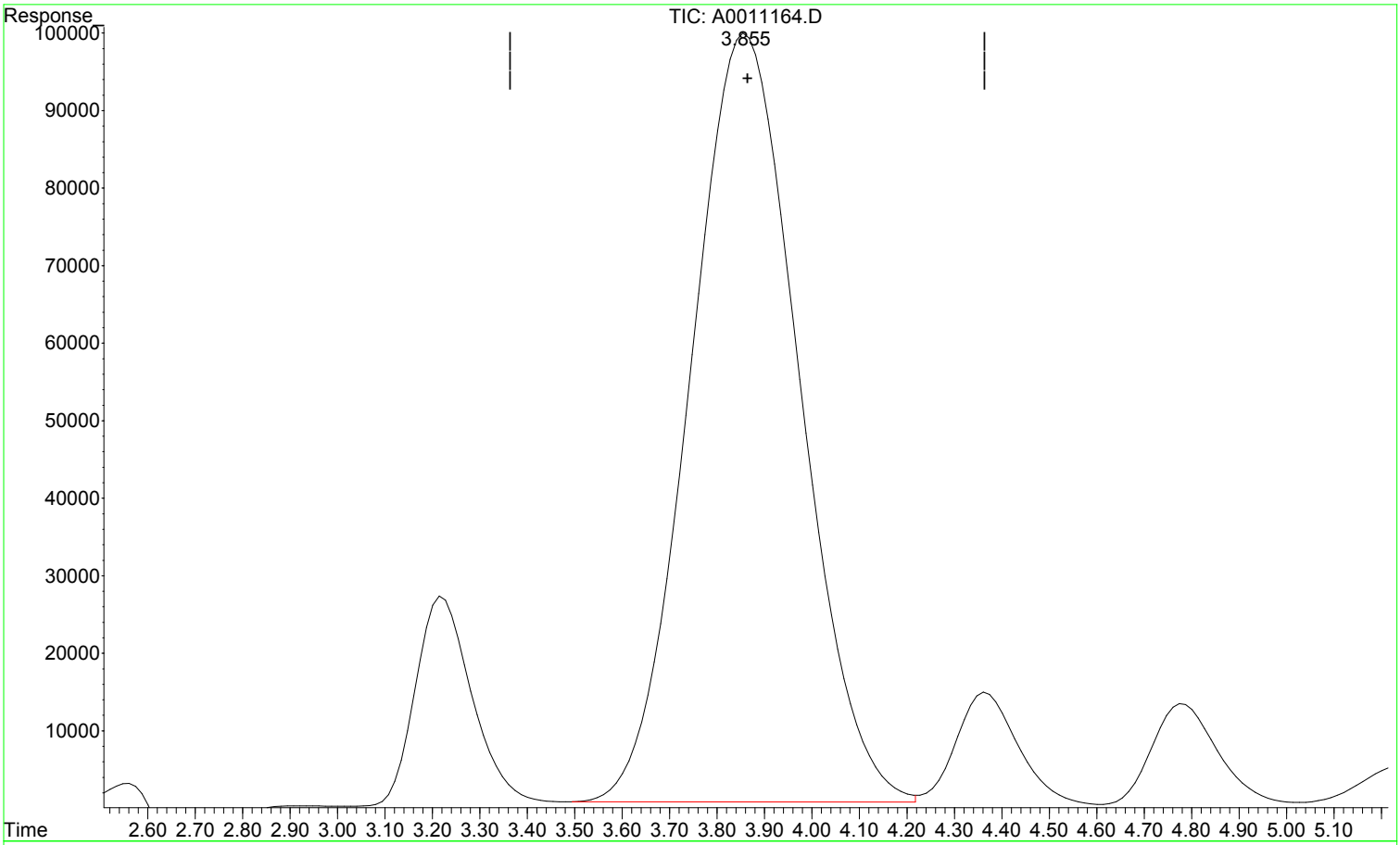
1st 02/23/24
2nd AF 02/27/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011164.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 09:48:11
Operator : KProcopio
Sample : LCS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:30 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(2) Pyruvic acid (T)

3.855min 24.836 ppm m

response 15802746

Manual Integration:

After

Poor integration.

02/23/24

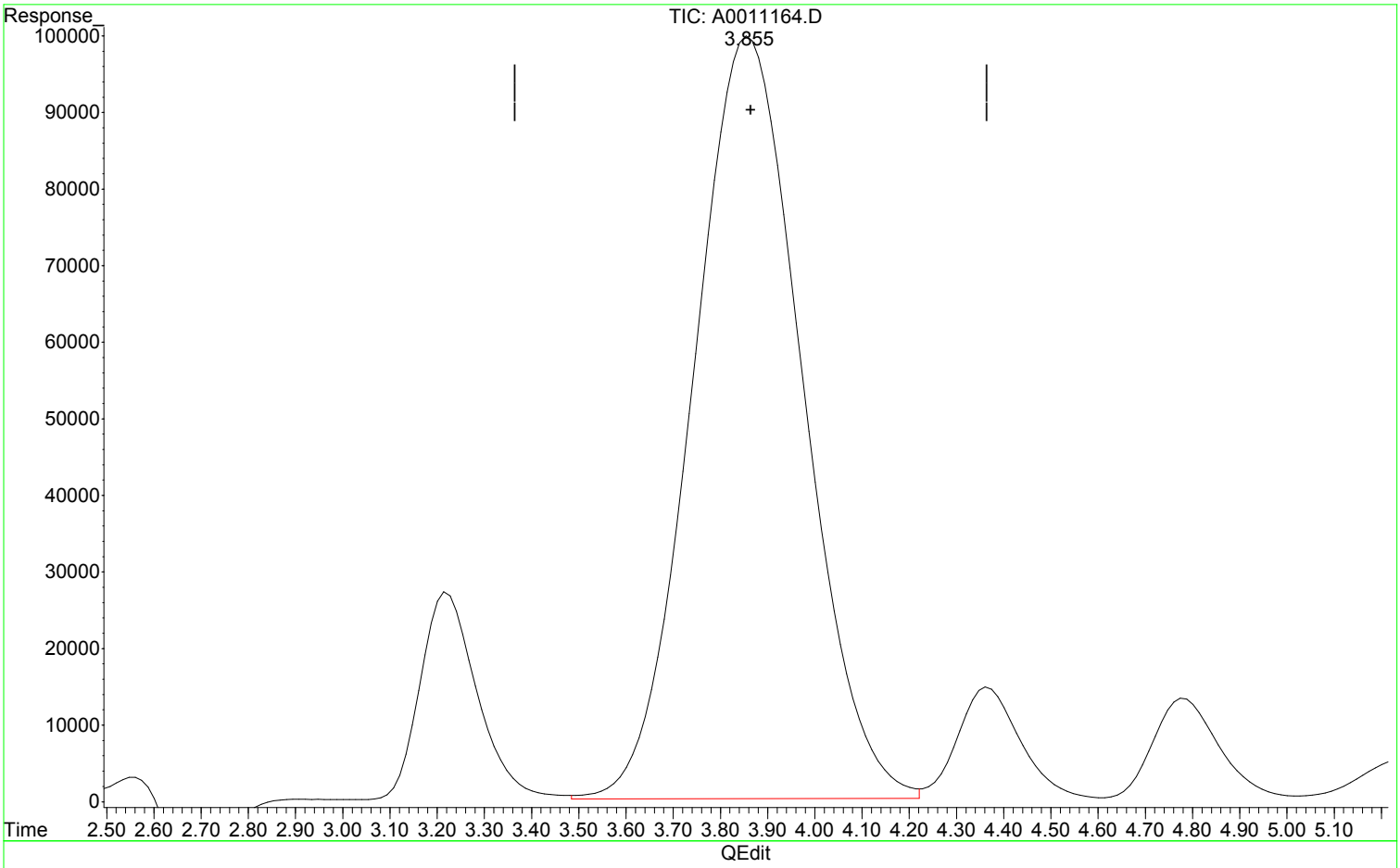
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011164.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 09:48:11
Operator : KProcopio
Sample : LCS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:30 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(2) Pyruvic acid (T)

3.861min 25.117 ppm

response 15981882

Manual Integration:

Before

02/23/24

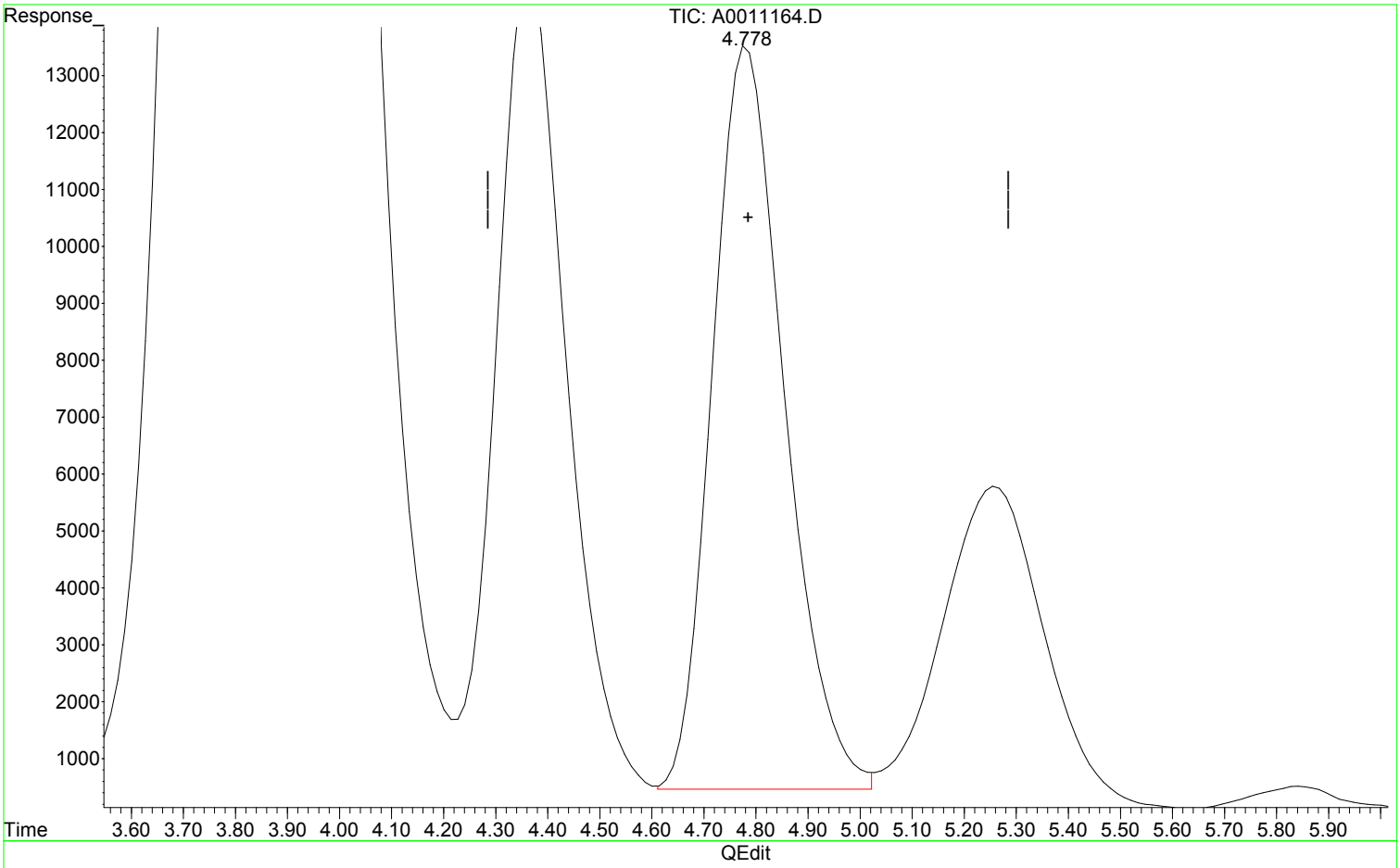
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011164.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 09:48:11
Operator : KProcopio
Sample : LCS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:30 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.778min 19.907 ppm m

response 1259209

Manual Integration:

After

Poor integration.

02/23/24

(+) = Expected Retention Time

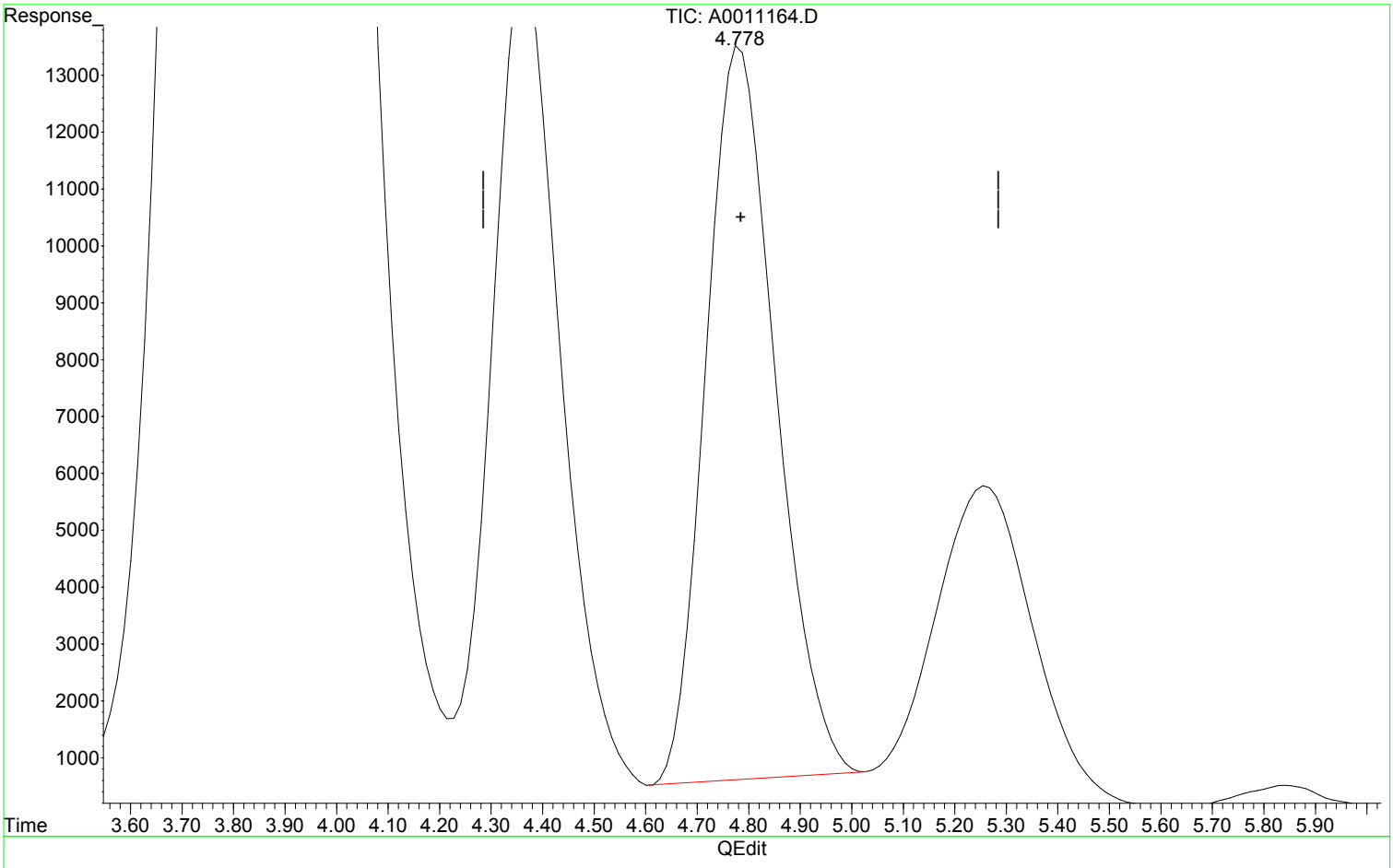
1st 02/23/24
2nd 02/27/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011164.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 09:48:11
Operator : KProcopio
Sample : LCS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:30 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.785min 19.219 ppm

response 1215665

Manual Integration:

Before

02/23/24

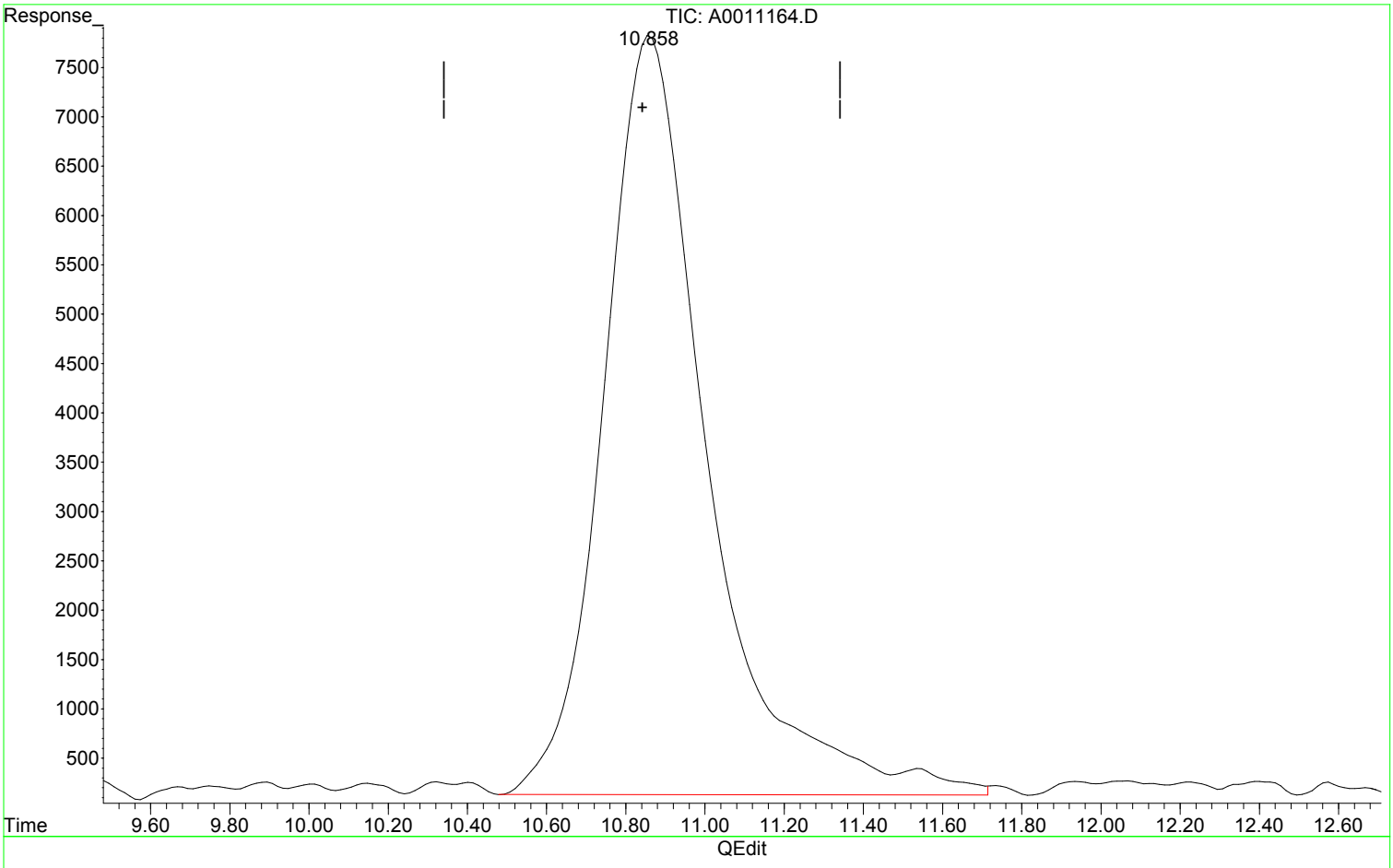
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011164.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 09:48:11
Operator : KProcopio
Sample : LCS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:30 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.858min 22.656 ppm m

response 1403253

Manual Integration:

After

Poor integration.

02/23/24

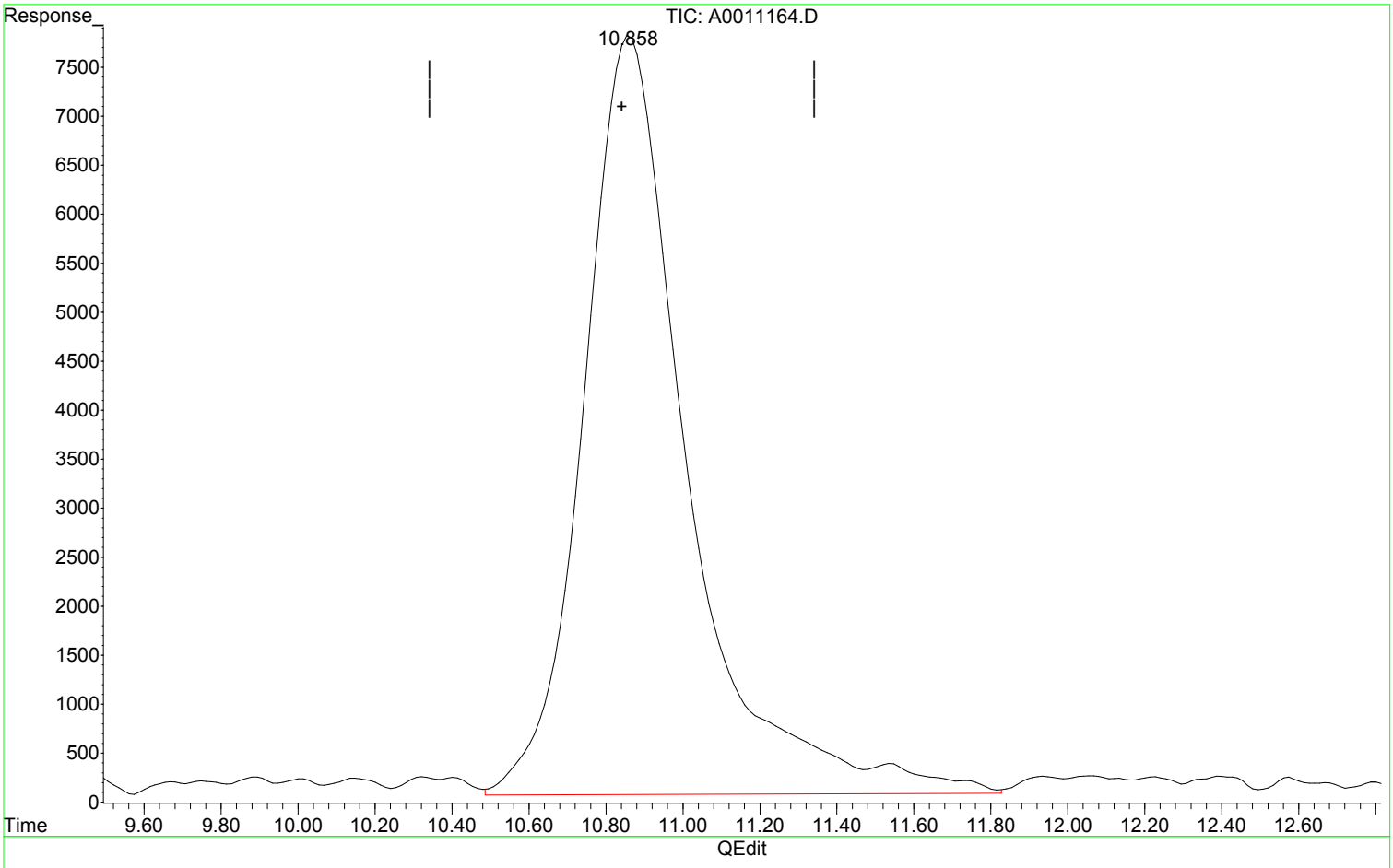
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011164.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 09:48:11
Operator : KProcopio
Sample : LCS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:30 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.863min 23.328 ppm

response 1444872

Manual Integration:

Before

02/23/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011164.D
Signal(s) : dad1A.ch
Wrong date/time 18:08:14 02/21/24
Acq On : ~~30-Dec-2000, 09:48:11~~
KP 2/26/24
Operator : KProcopio
Sample : LCS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:30 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.217	2282358	22.915	ppm	m
2) T	Pyruvic acid	3.855	15802746	24.836	ppm	m
3) T	Lactic Acid	4.369	1325183	19.810	ppm	
4) T	Acetic Acid	4.778	1259209	19.907	ppm	m
5) T	Propionic Acid	10.858	1403253	22.656	ppm	m
6) T	Butyric Acid	31.325	1218564	21.305	ppm	

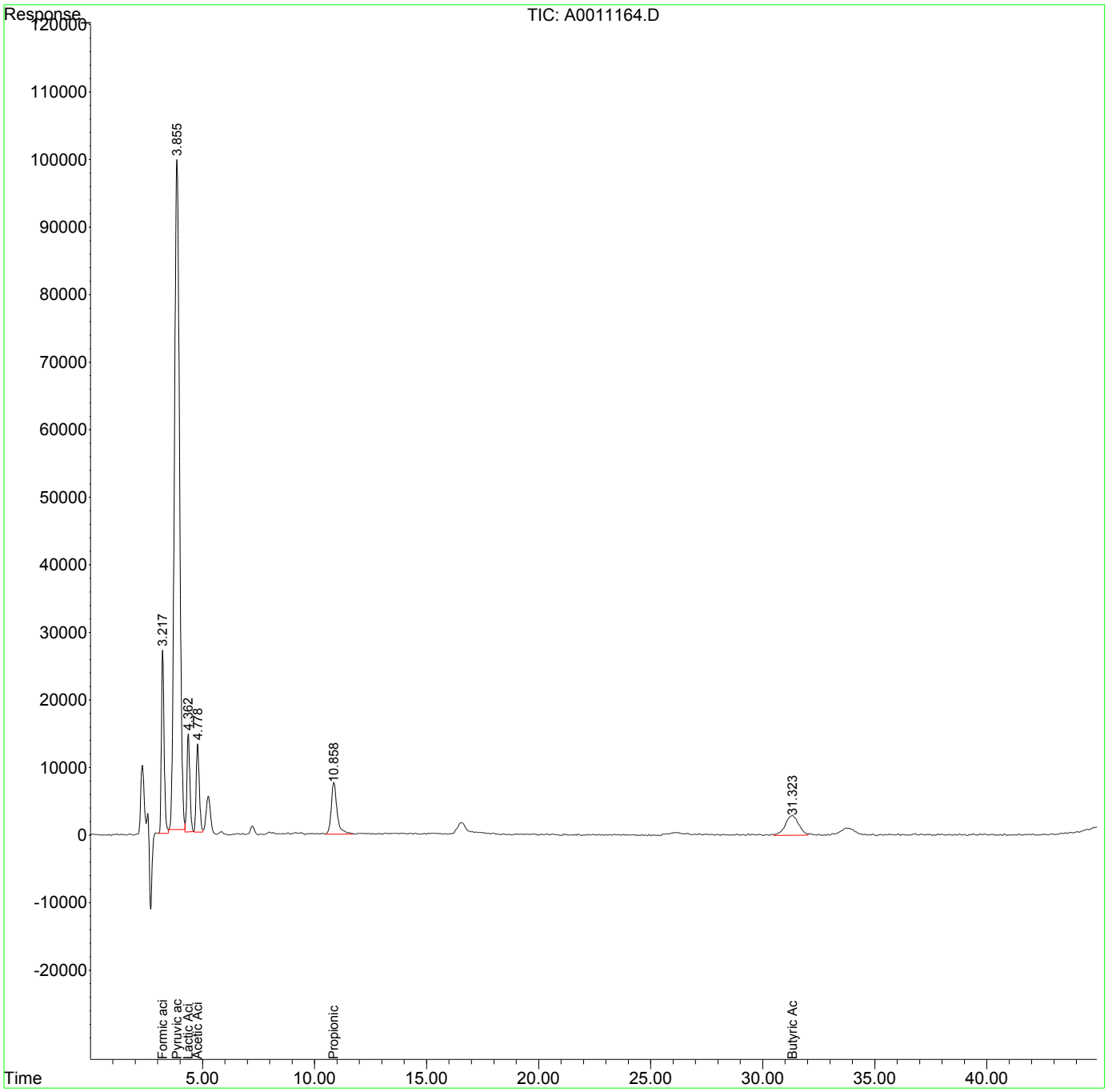
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011164.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 09:48:11
Operator : KProcopio
Sample : LCS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:30 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

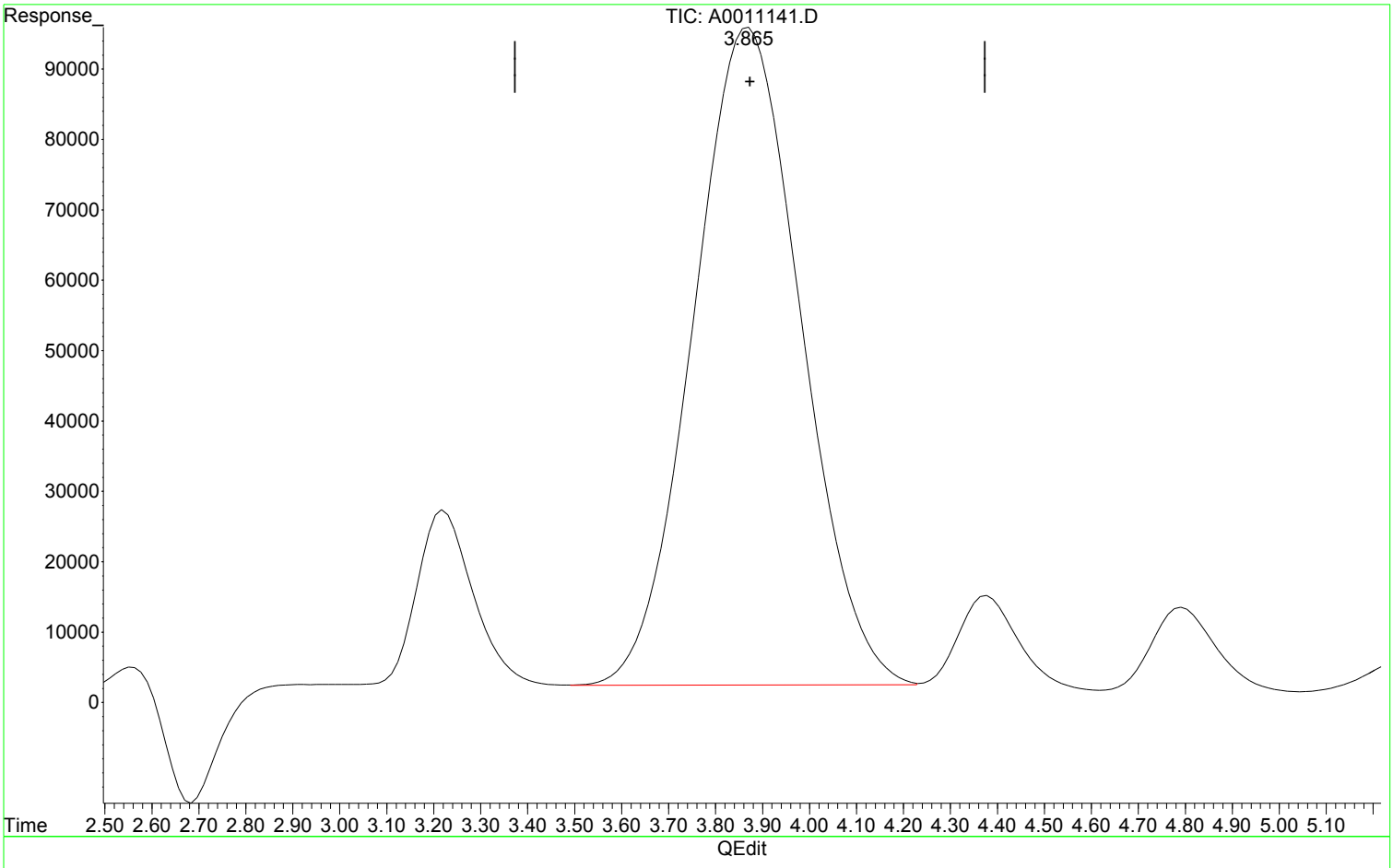


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011141.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 17:48:13
Operator : EDeGray
Sample : DLCS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:28 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(2) Pyruvic acid (T)

3.865min 23.379 ppm m

response 14875706

Manual Integration:

After

Poor integration.

02/21/24

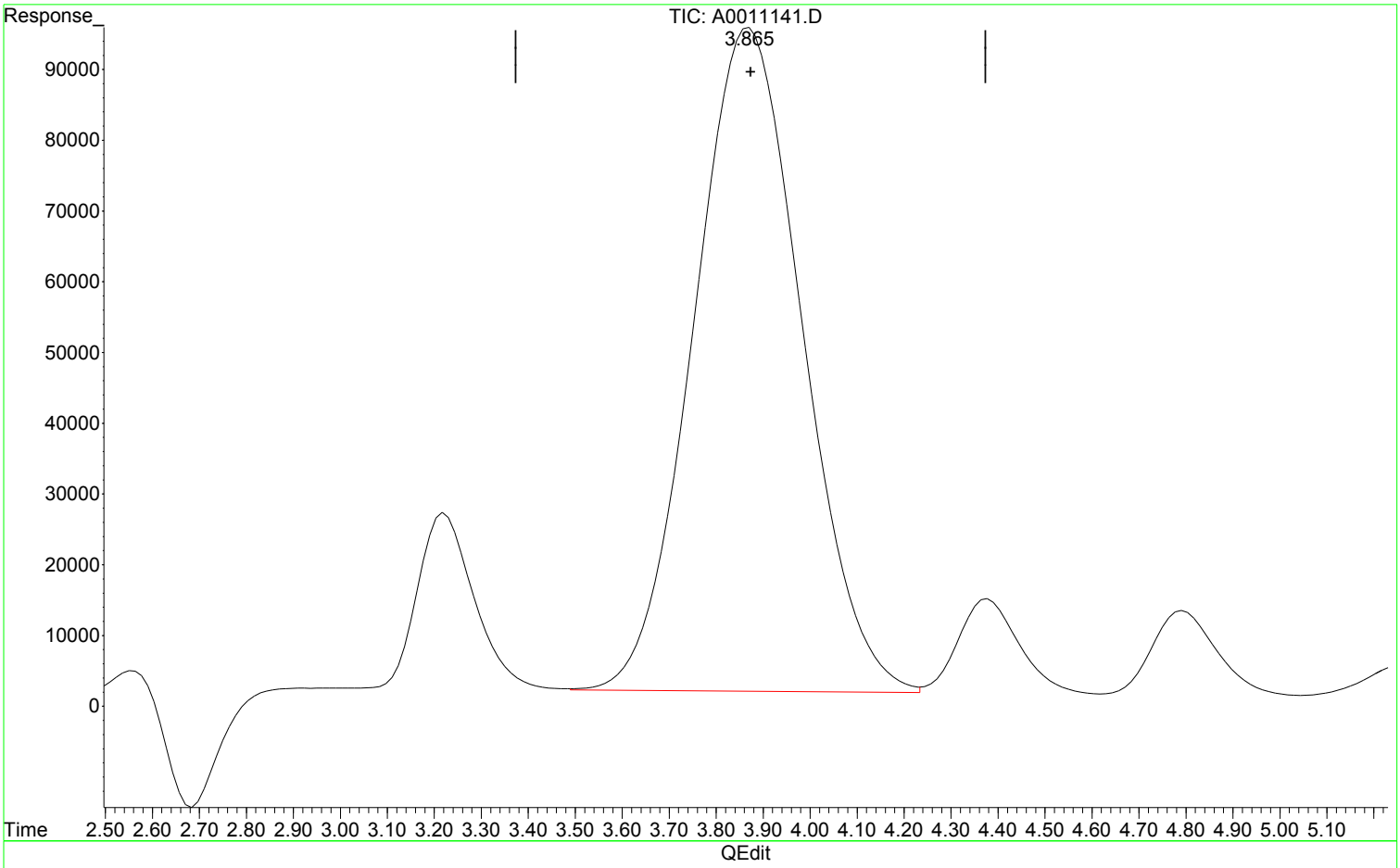
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011141.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 17:48:13
Operator : EDeGray
Sample : DLCS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:28 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(2) Pyruvic acid (T)

3.871min 23.624 ppm

response 15031485

Manual Integration:

Before

02/21/24

(+) = Expected Retention Time

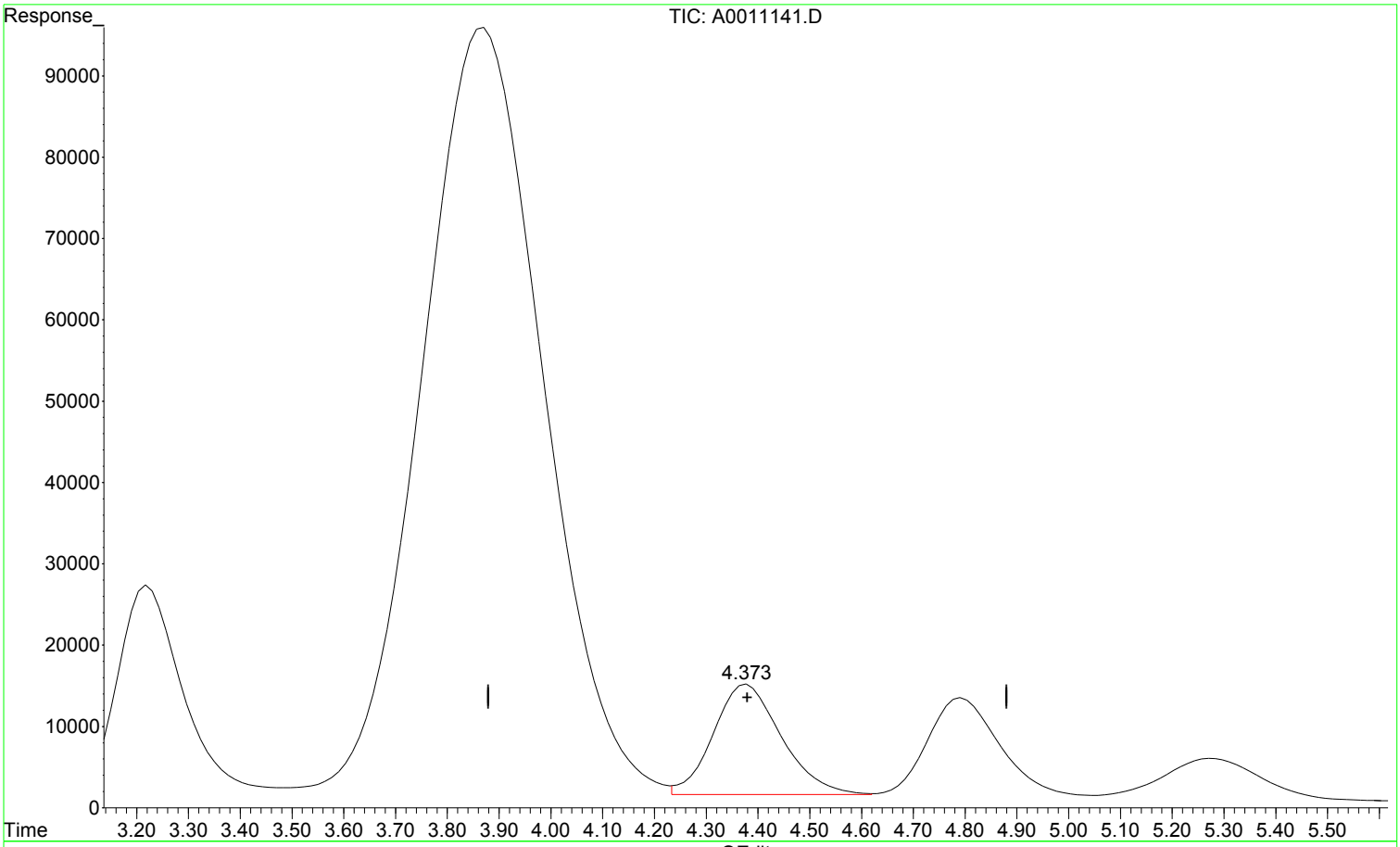
1st EDG 02/21/24
2nd AM 02/21/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011141.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 17:48:13
Operator : EDeGray
Sample : DLCS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:28 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)

4.373min 18.517 ppm m

response 1238688

Manual Integration:

After

Poor integration.

02/21/24

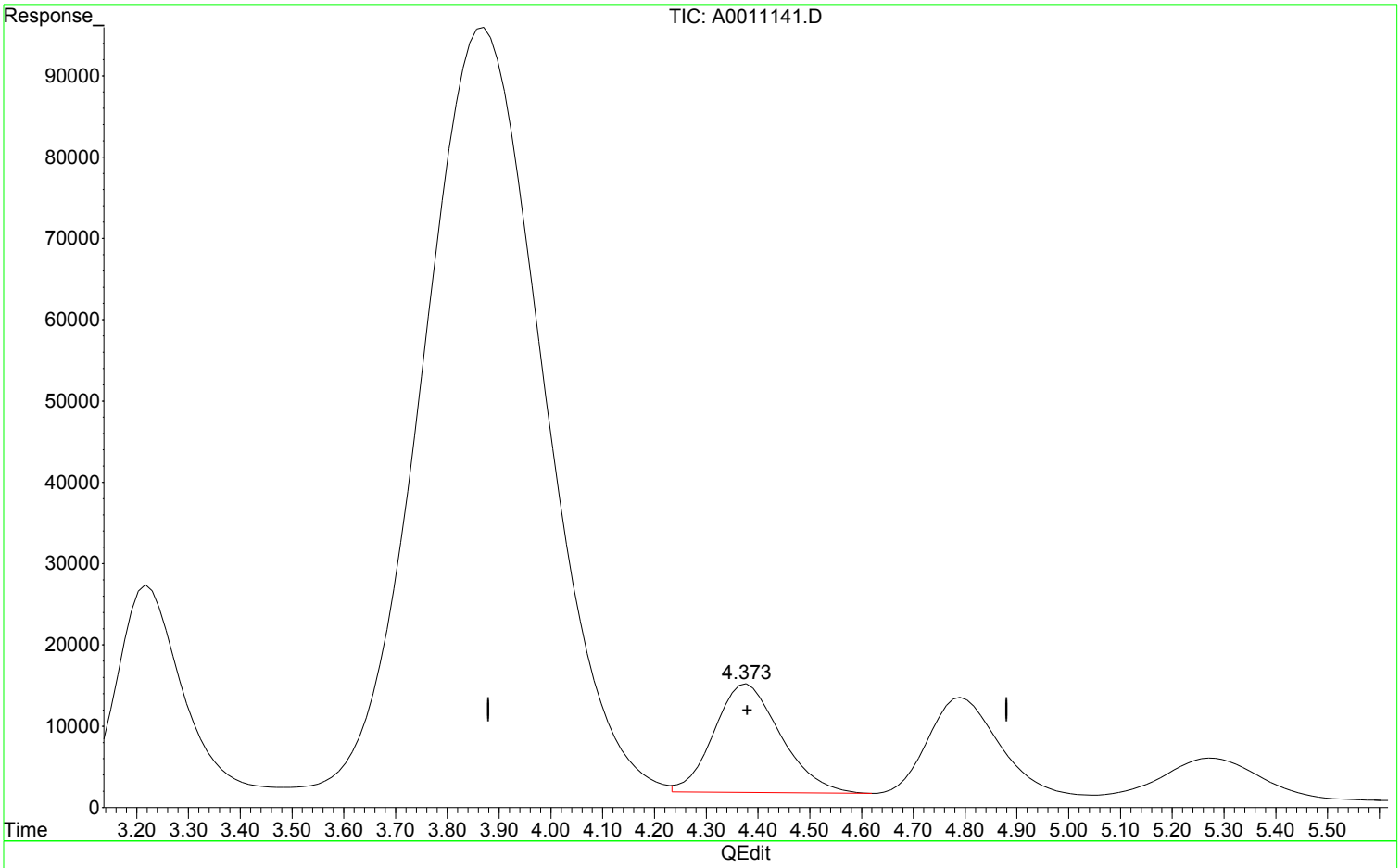
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011141.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 17:48:13
Operator : EDeGray
Sample : DLCS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:28 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)

4.380min 17.860 ppm

response 1194730

Manual Integration:

Before

02/21/24

(+) = Expected Retention Time

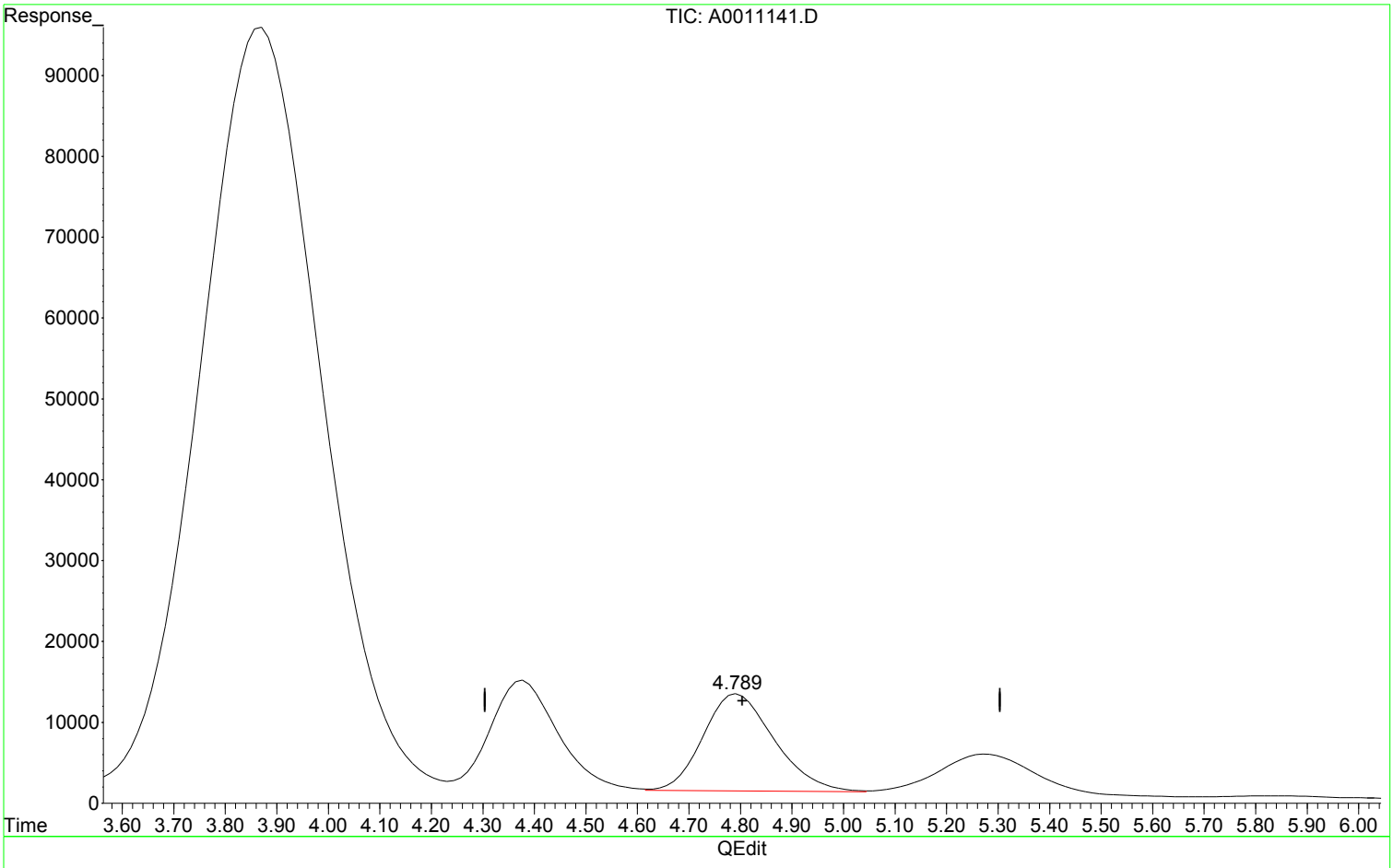
1st EDG 02/21/24
2nd AM 02/21/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011141.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 17:48:13
Operator : EDeGray
Sample : DLCS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:28 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.789min 18.232 ppm m

response 1153284

Manual Integration:

After

Poor integration.

02/21/24

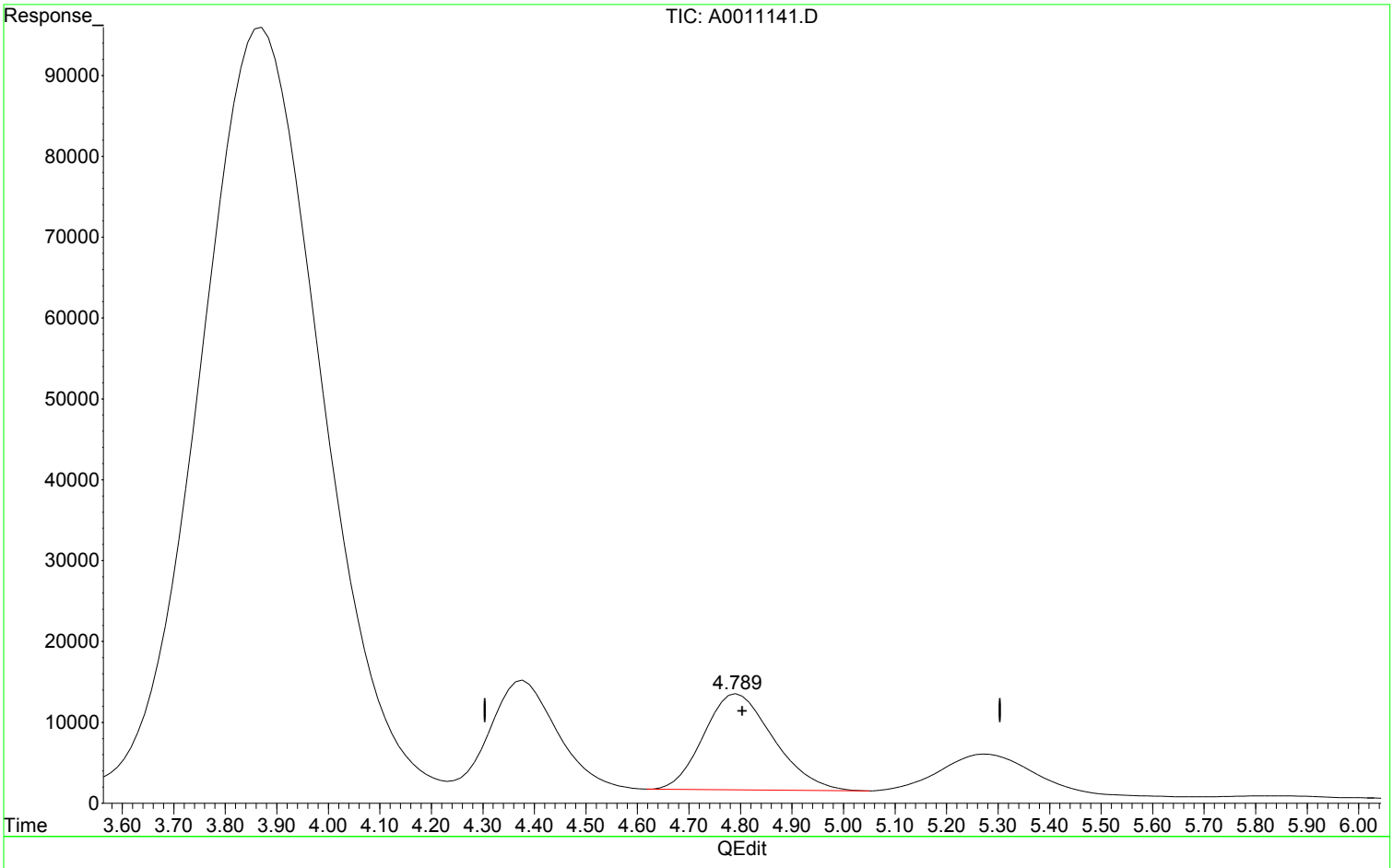
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011141.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 17:48:13
Operator : EDeGray
Sample : DLCS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:28 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.796min 17.655 ppm

response 1116767

Manual Integration:

Before

02/21/24

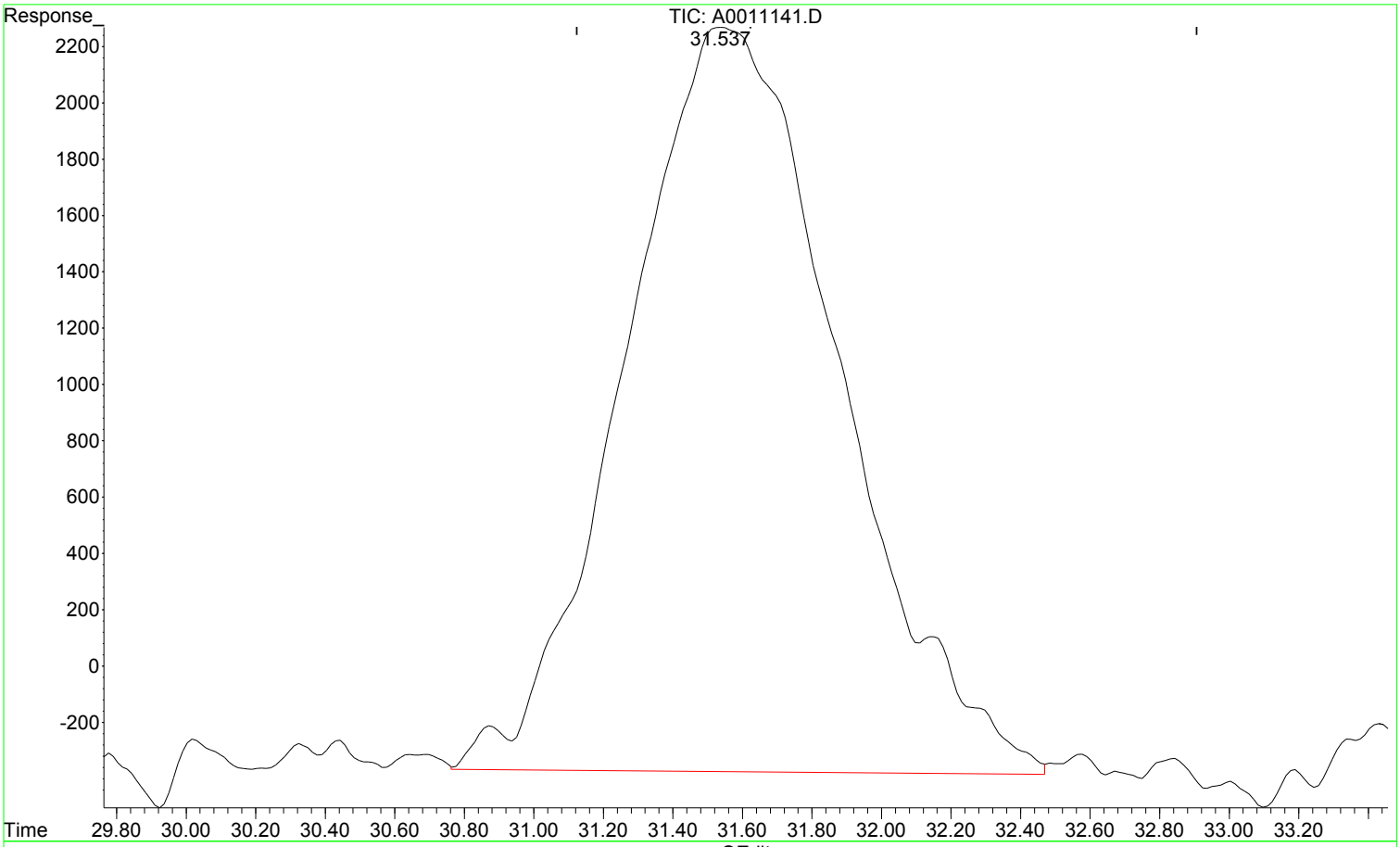
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011141.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 17:48:13
Operator : EDeGray
Sample : DLCS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:28 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

31.537min 19.731 ppm m

response 1128538

Manual Integration:

After

Poor integration.

02/21/24

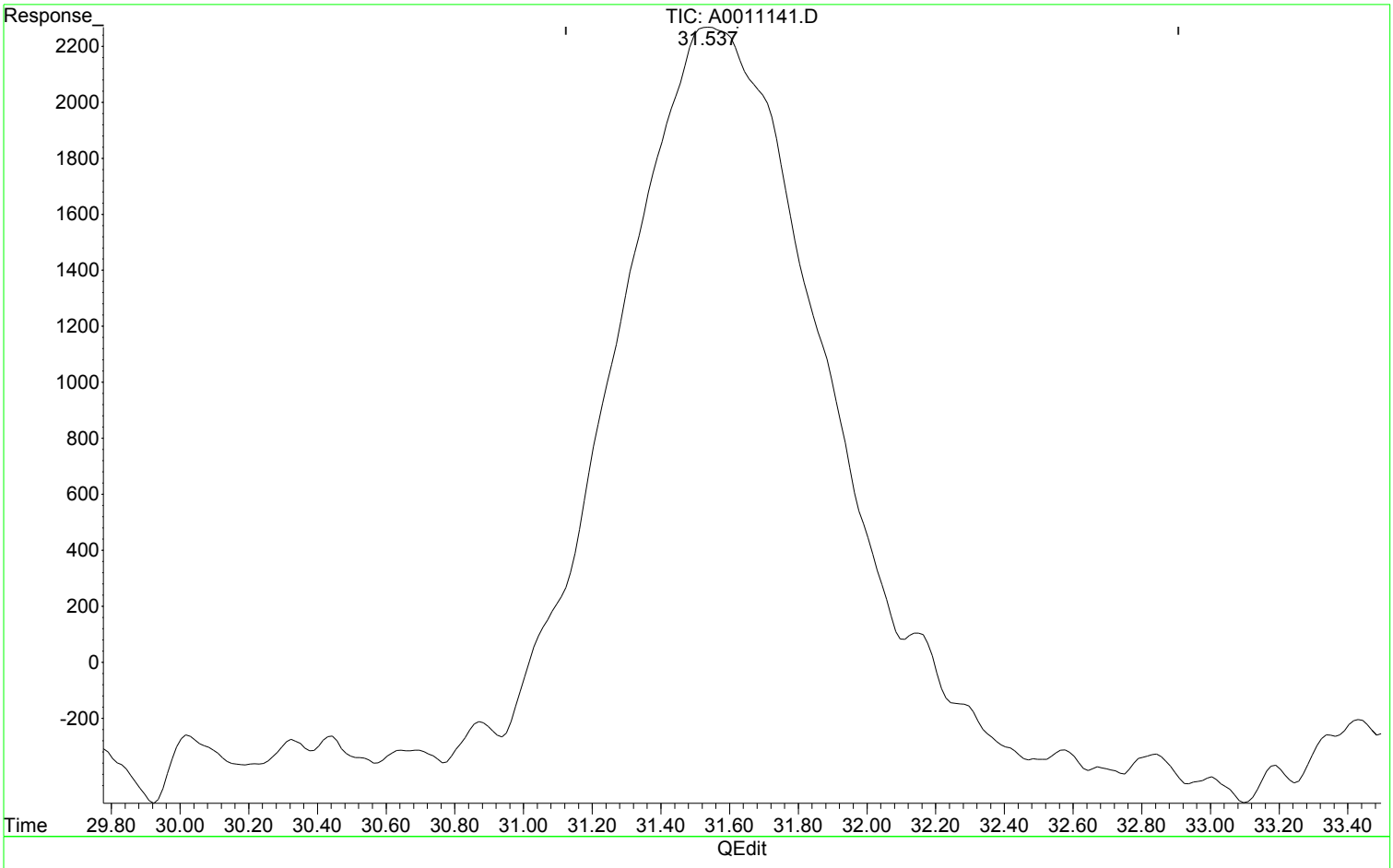
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011141.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 17:48:13
Operator : EDeGray
Sample : DLCS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:28 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

31.545min 22.487 ppm

response 1286207

Manual Integration:

Before

02/21/24

(+) = Expected Retention Time

1st EDG 02/21/24
2nd AM 02/21/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011141.D Wrong date/time, EDG 2/21/24
Signal(s) : dad1A.ch
Acq On : ~~30-Dec-2000, 17:48:13~~ 15:13:27 02/20/24
Operator : EDeGray
Sample : DLCS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:28 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.224	2072379	20.806	ppm	
2) T	Pyruvic acid	3.865	14875706	23.379	ppm	m
3) T	Lactic Acid	4.373	1238688	18.517	ppm	m
4) T	Acetic Acid	4.789	1153284	18.232	ppm	m
5) T	Propionic Acid	10.929	1258594	20.320	ppm	
6) T	Butyric Acid	31.537	1128538	19.731	ppm	m

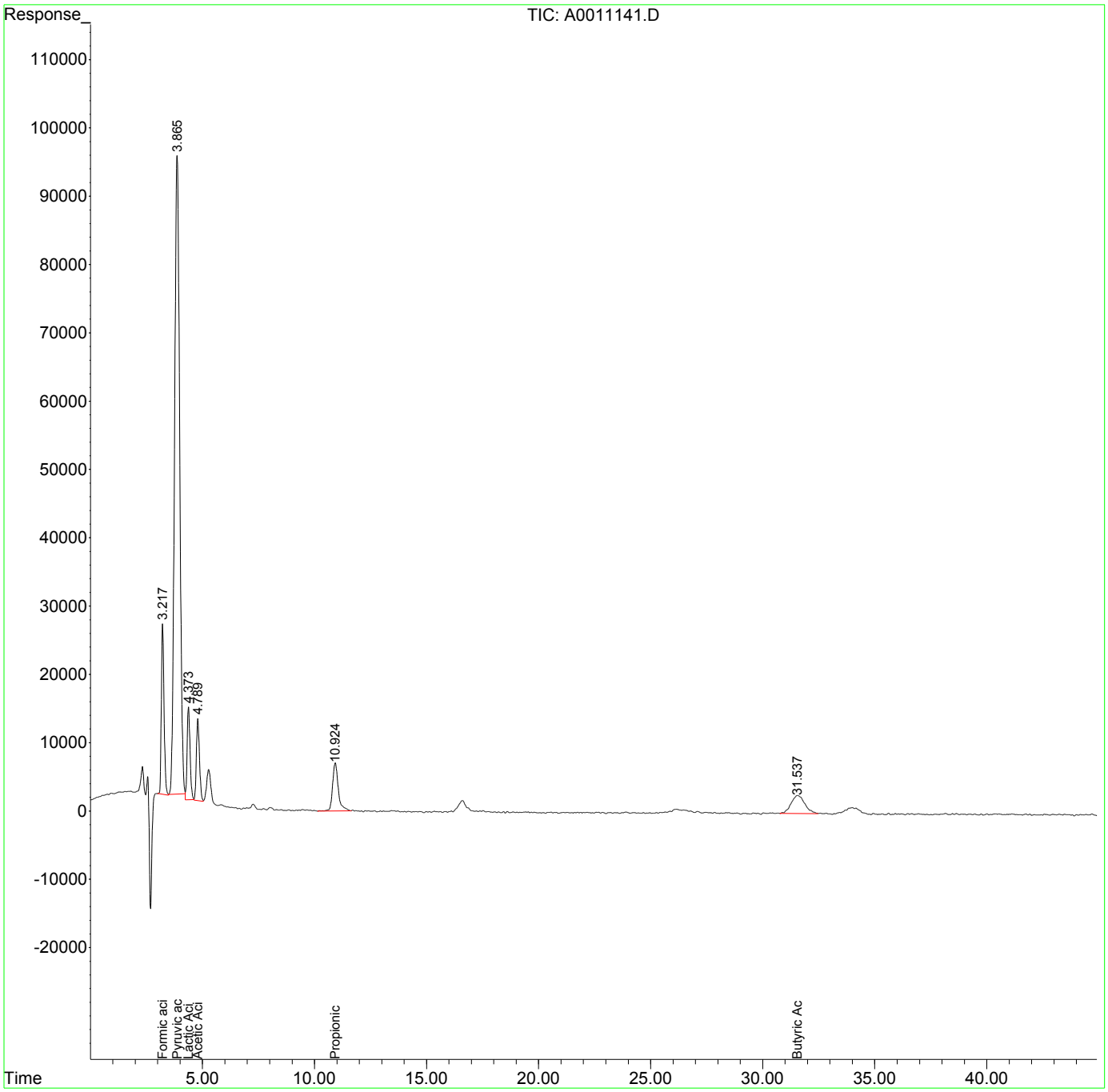
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011141.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 17:48:13
Operator : EDeGray
Sample : DLCS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:28 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

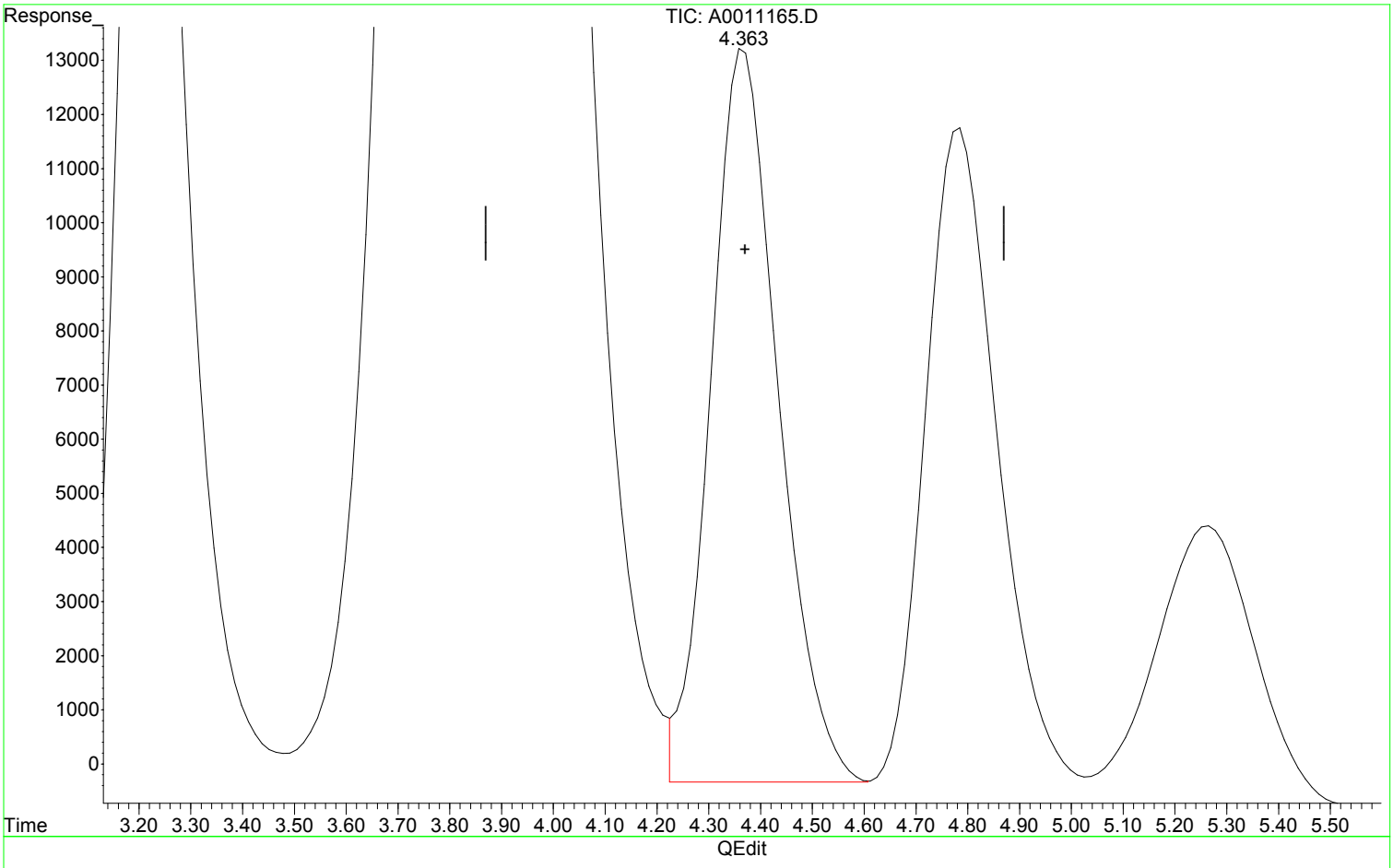


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011165.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:48:24
Operator : KProcopio
Sample : DLCS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:32 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)

4.363min 18.424 ppm m

response 1232448

Manual Integration:

After

Poor integration.

02/23/24

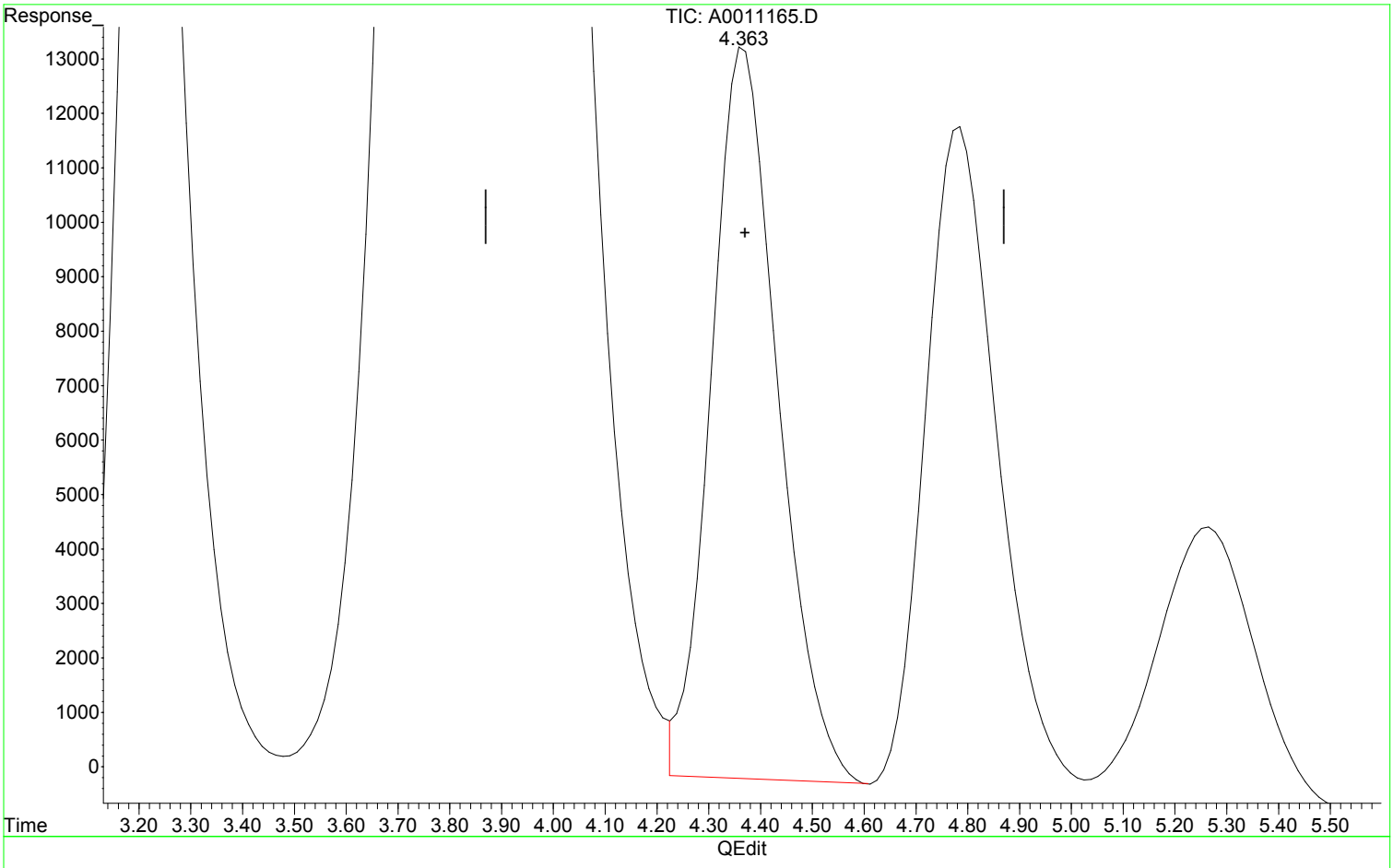
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011165.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:48:24
Operator : KProcopio
Sample : DLCS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:32 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)

4.370min 18.141 ppm

response 1213562

Manual Integration:

Before

02/23/24

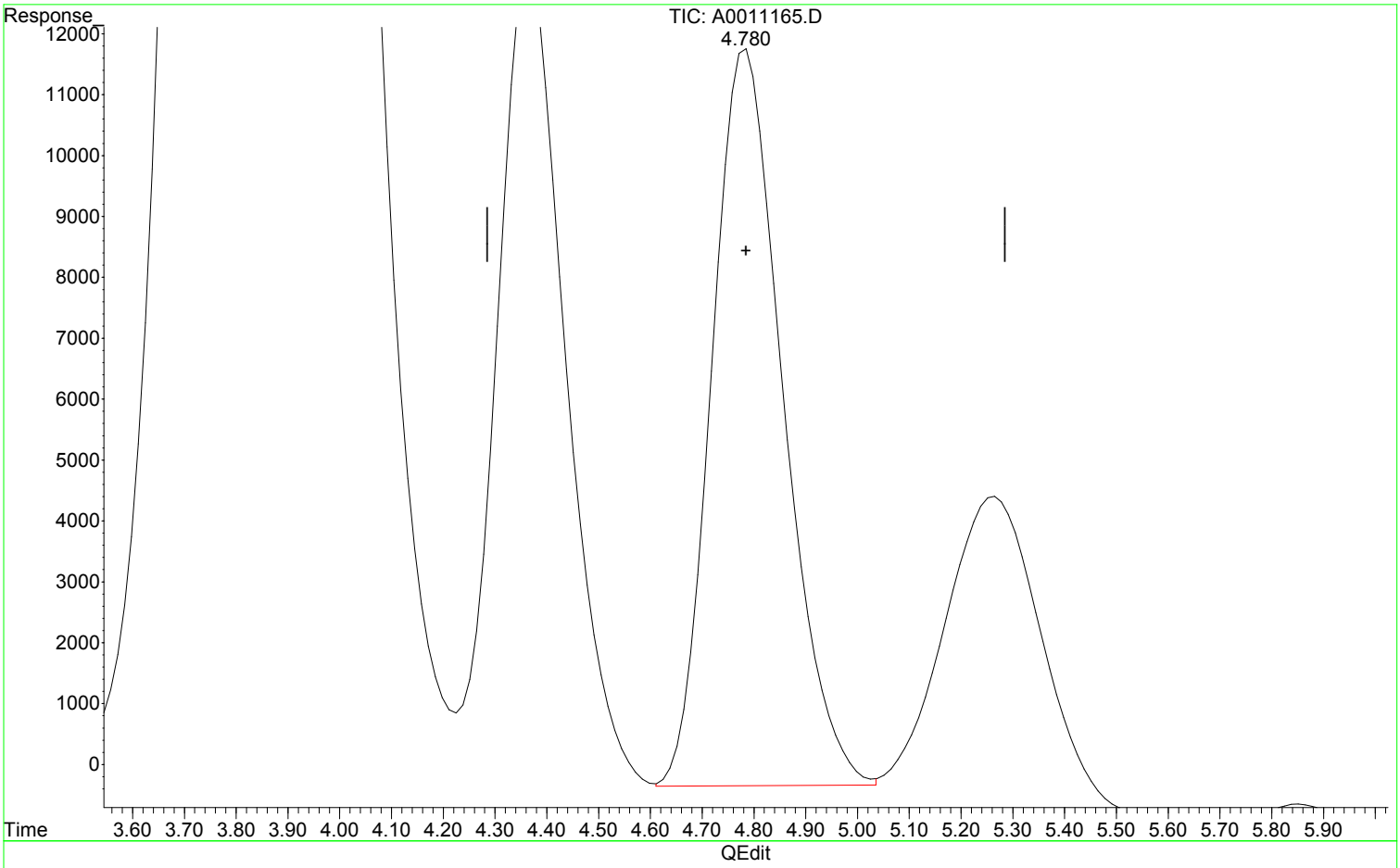
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011165.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:48:24
Operator : KProcopio
Sample : DLCS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:32 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.780min 18.328 ppm m

response 1159350

Manual Integration:

After

Poor integration.

02/23/24

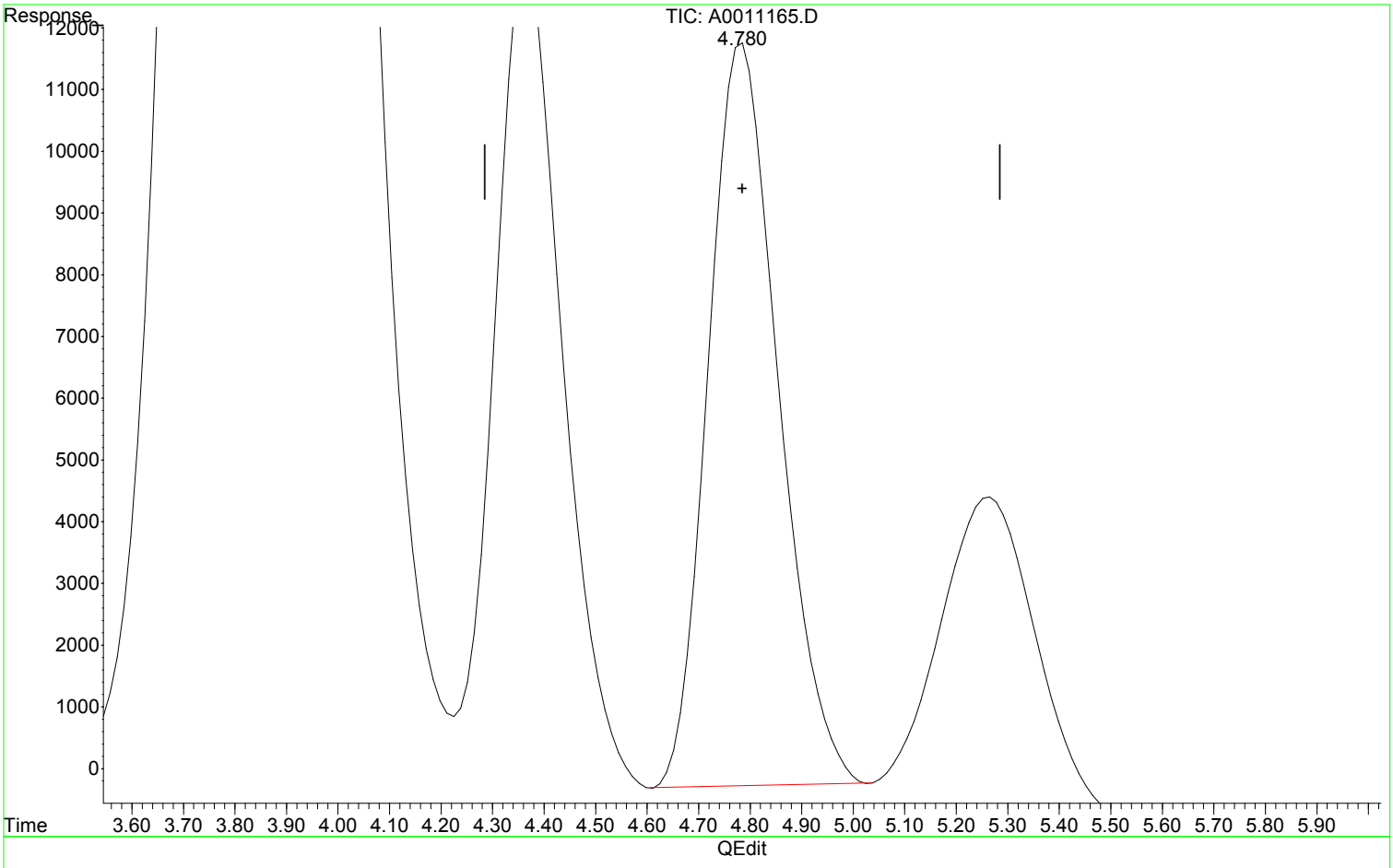
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011165.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:48:24
Operator : KProcopio
Sample : DLCS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:32 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.787min 18.017 ppm

response 1139646

Manual Integration:

Before

02/23/24

(+) = Expected Retention Time

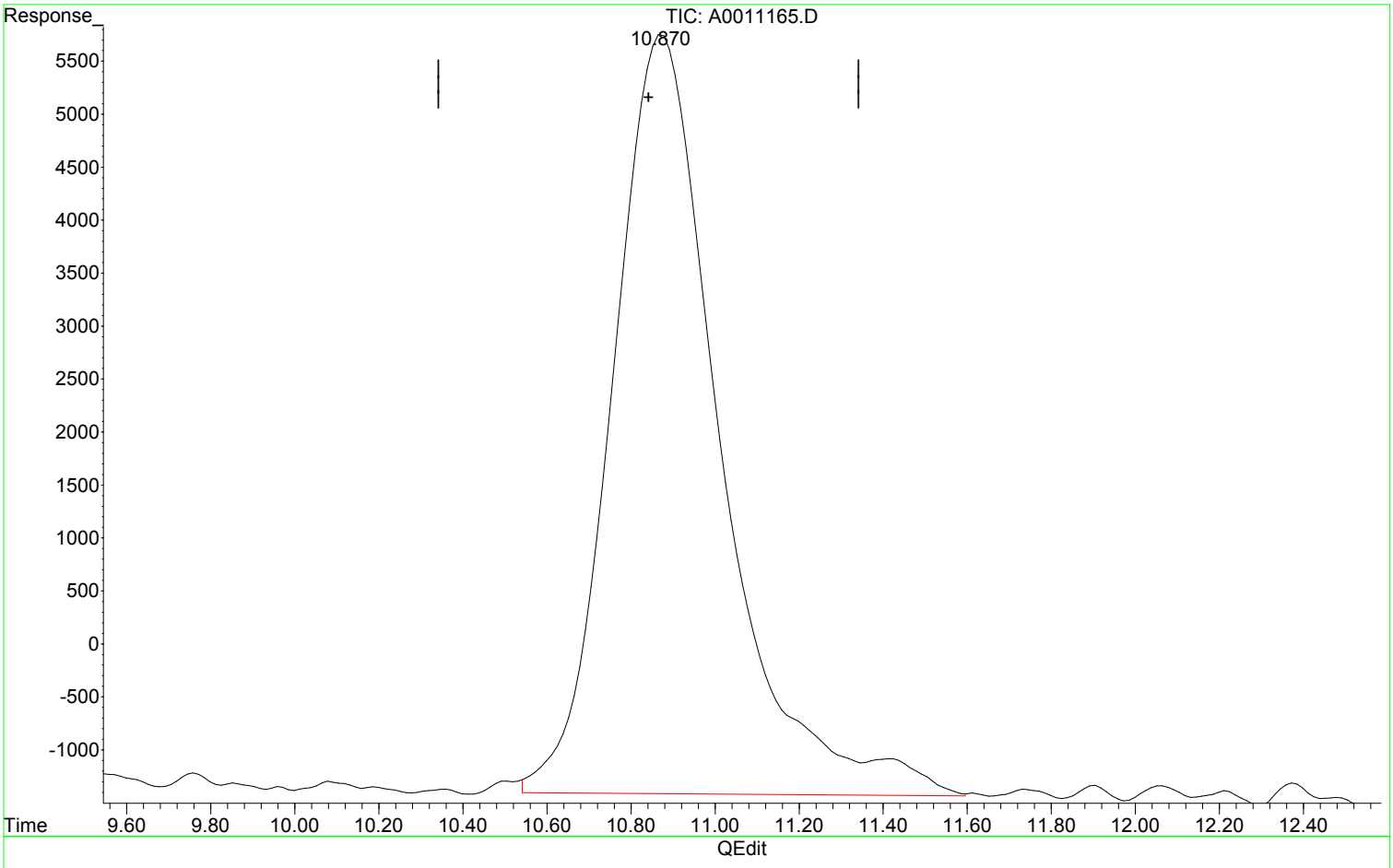
1st 02/23/24
2nd AF 02/27/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011165.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:48:24
Operator : KProcopio
Sample : DLCS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:32 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.870min 20.645 ppm m

response 1278738

Manual Integration:

After

Poor integration.

02/23/24

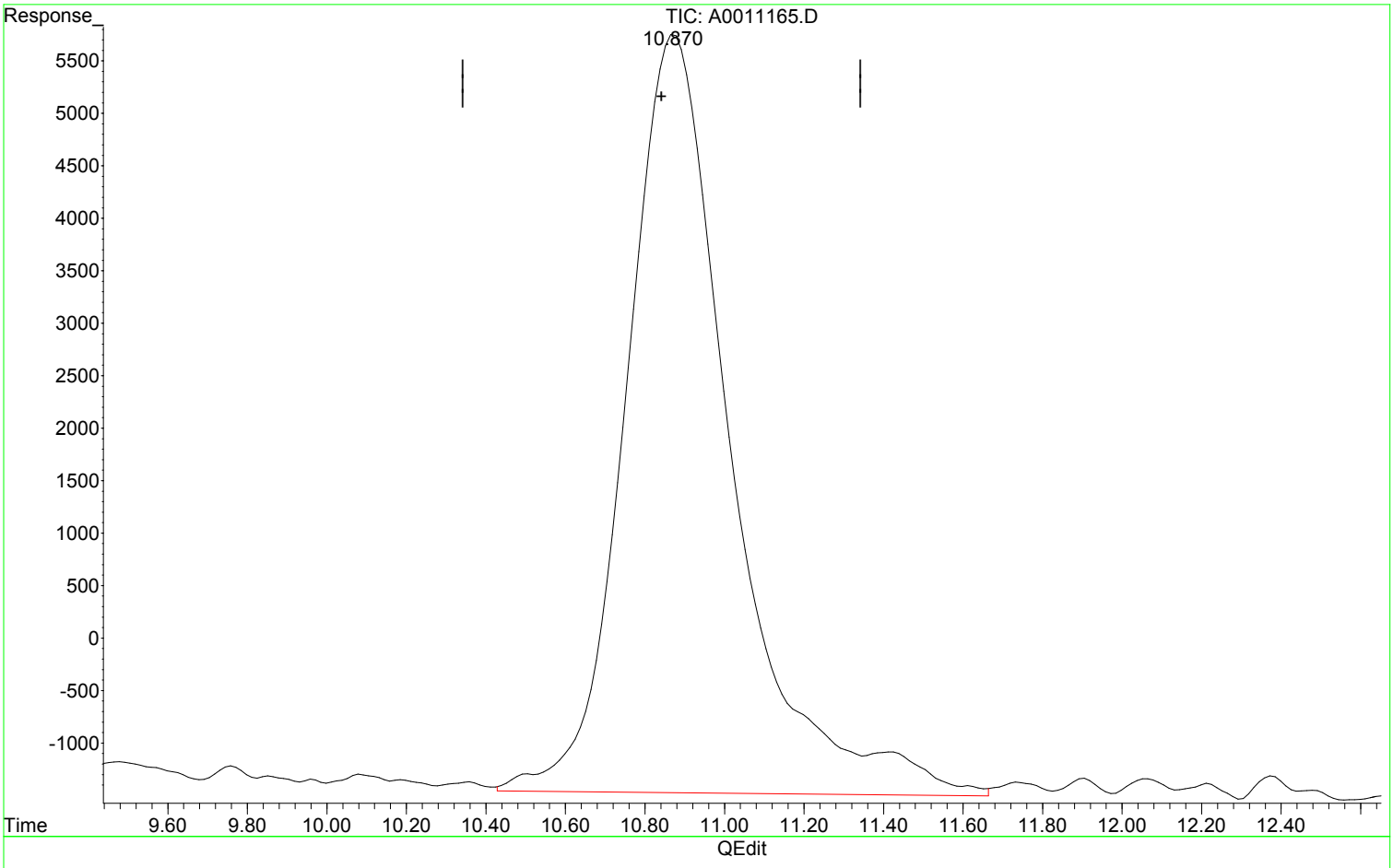
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011165.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:48:24
Operator : KProcopio
Sample : DLCS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:32 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.876min 21.468 ppm

response 1329706

Manual Integration:

Before

02/23/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011165.D
Signal(s) : dad1A.ch
Acq On : ~~30-Dec-2000, 00:48:24~~ Wrong date/time 18:55:30 02/21/24 KP 2/26/24
Operator : KProcopio
Sample : DLCS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:32 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.224	2094480	21.028	ppm	
2) T	Pyruvic acid	3.861	14952159	23.499	ppm	
3) T	Lactic Acid	4.363	1232448	18.424	ppm	m
4) T	Acetic Acid	4.780	1159350	18.328	ppm	m
5) T	Propionic Acid	10.870	1278738	20.645	ppm	m
6) T	Butyric Acid	31.356	1182902	20.681	ppm	

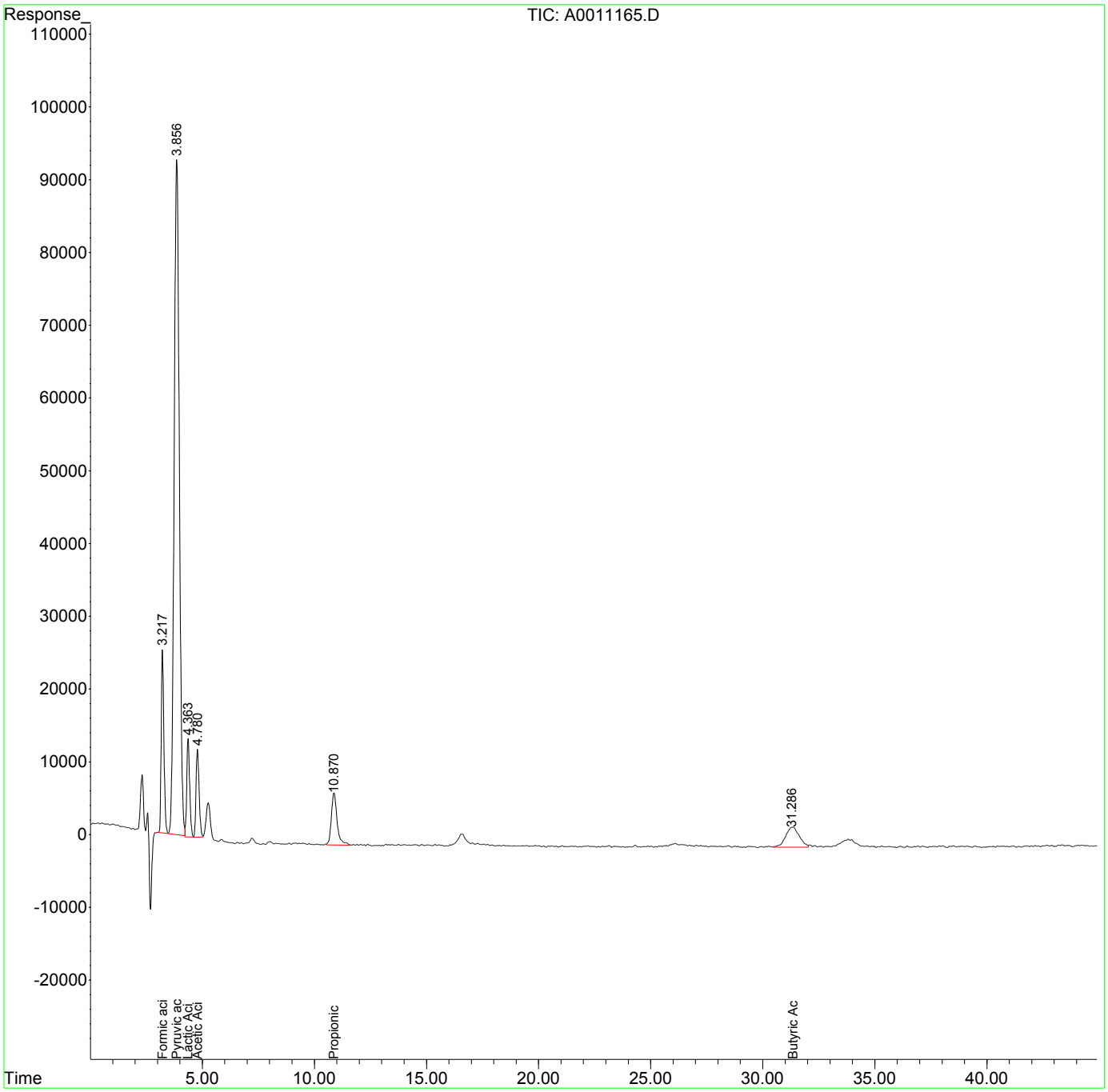
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011165.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:48:24
Operator : KProcopio
Sample : DLCS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:32 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

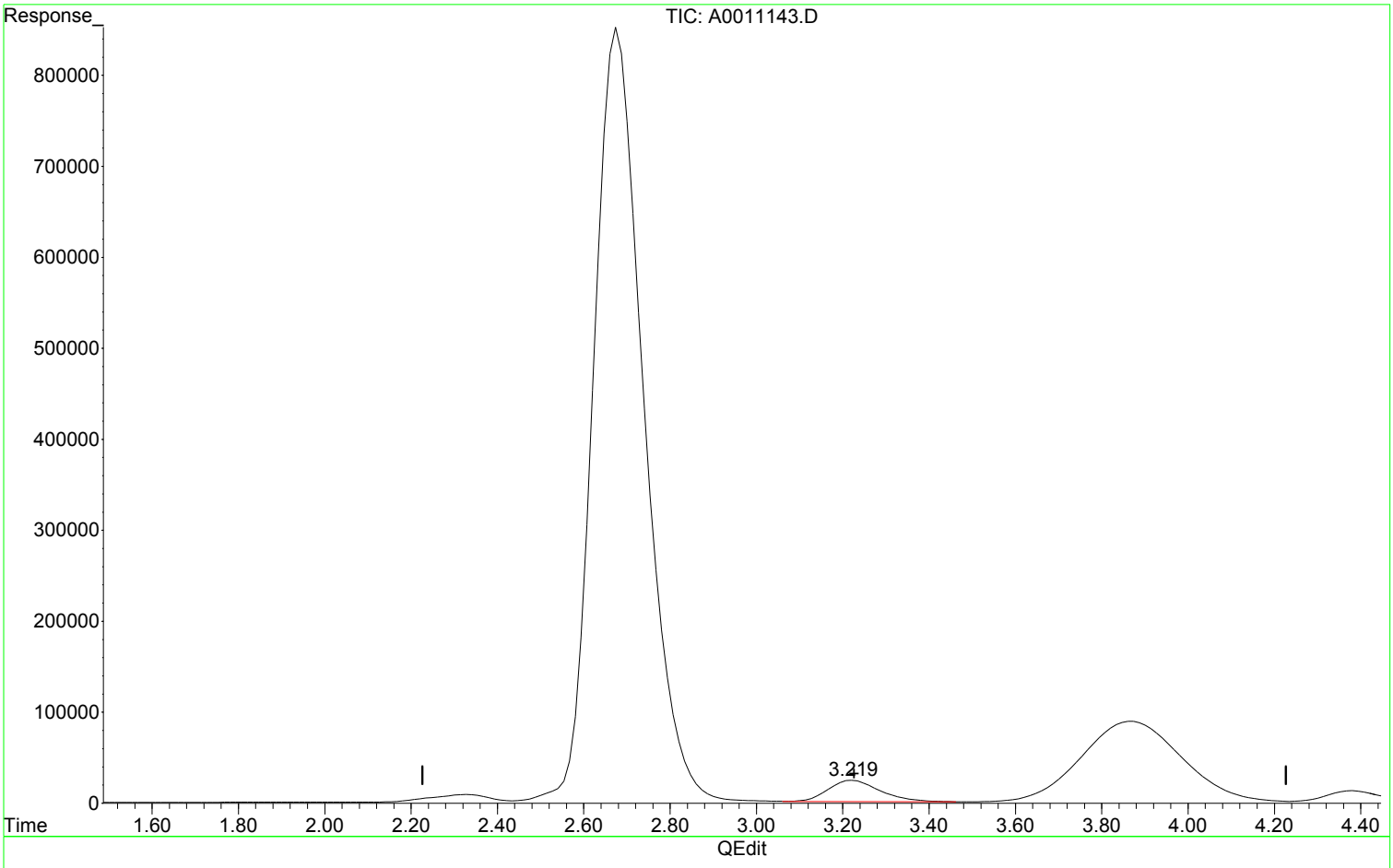


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011143.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 16:49:49
Operator : EDeGray
Sample : R2401280-008MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:34 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)

3.219min 19.596 ppm m

response 1951856

Manual Integration:

After

Poor integration.

02/21/24

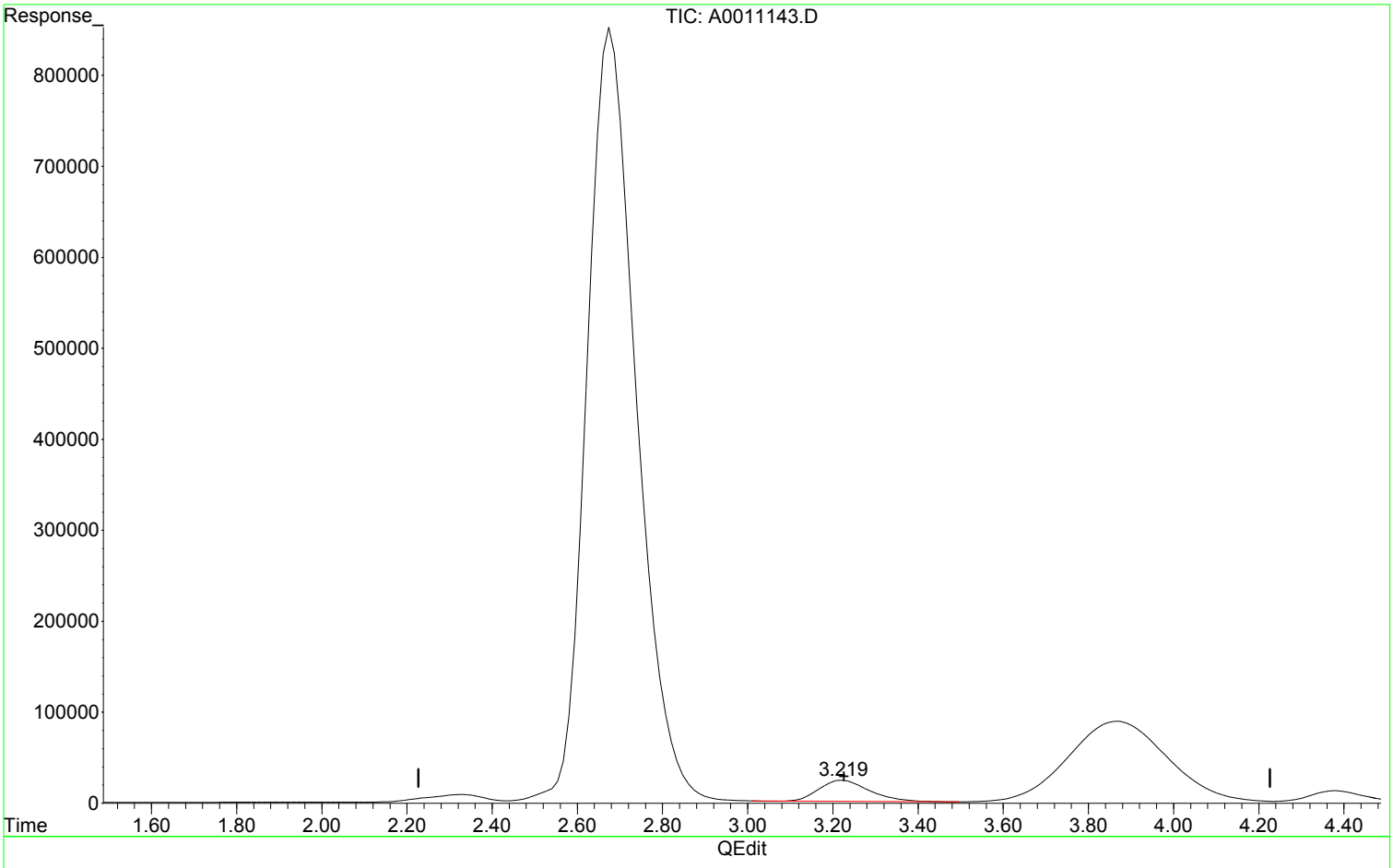
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011143.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 16:49:49
Operator : EDeGray
Sample : R2401280-008MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:34 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)

3.226min 18.806 ppm

response 1873078

Manual Integration:

Before

02/21/24

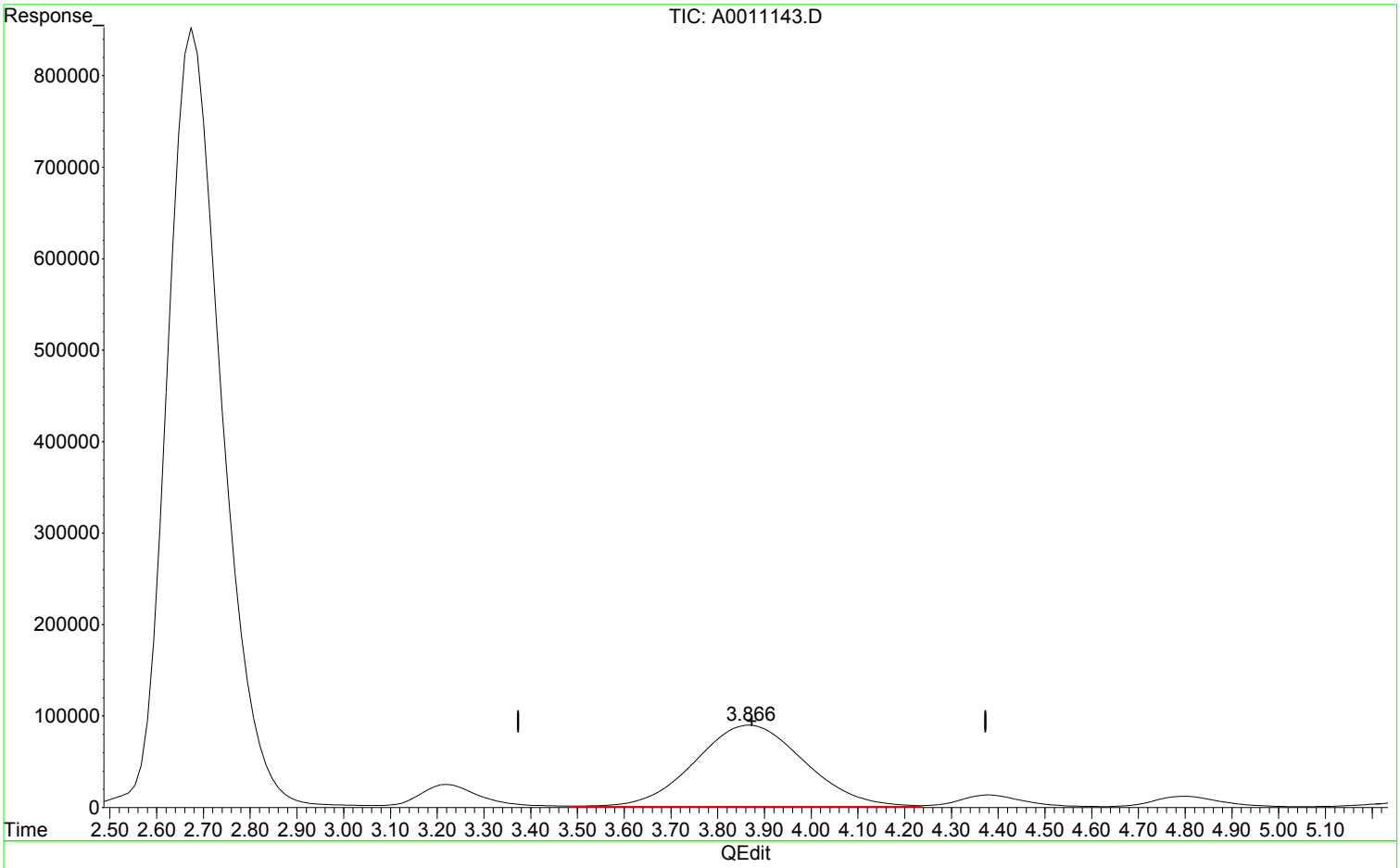
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011143.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 16:49:49
Operator : EDeGray
Sample : R2401280-008MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:34 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(2) Pyruvic acid (T)

3.865min 22.590 ppm m

response 14373970

Manual Integration:

After

Poor integration.

02/21/24

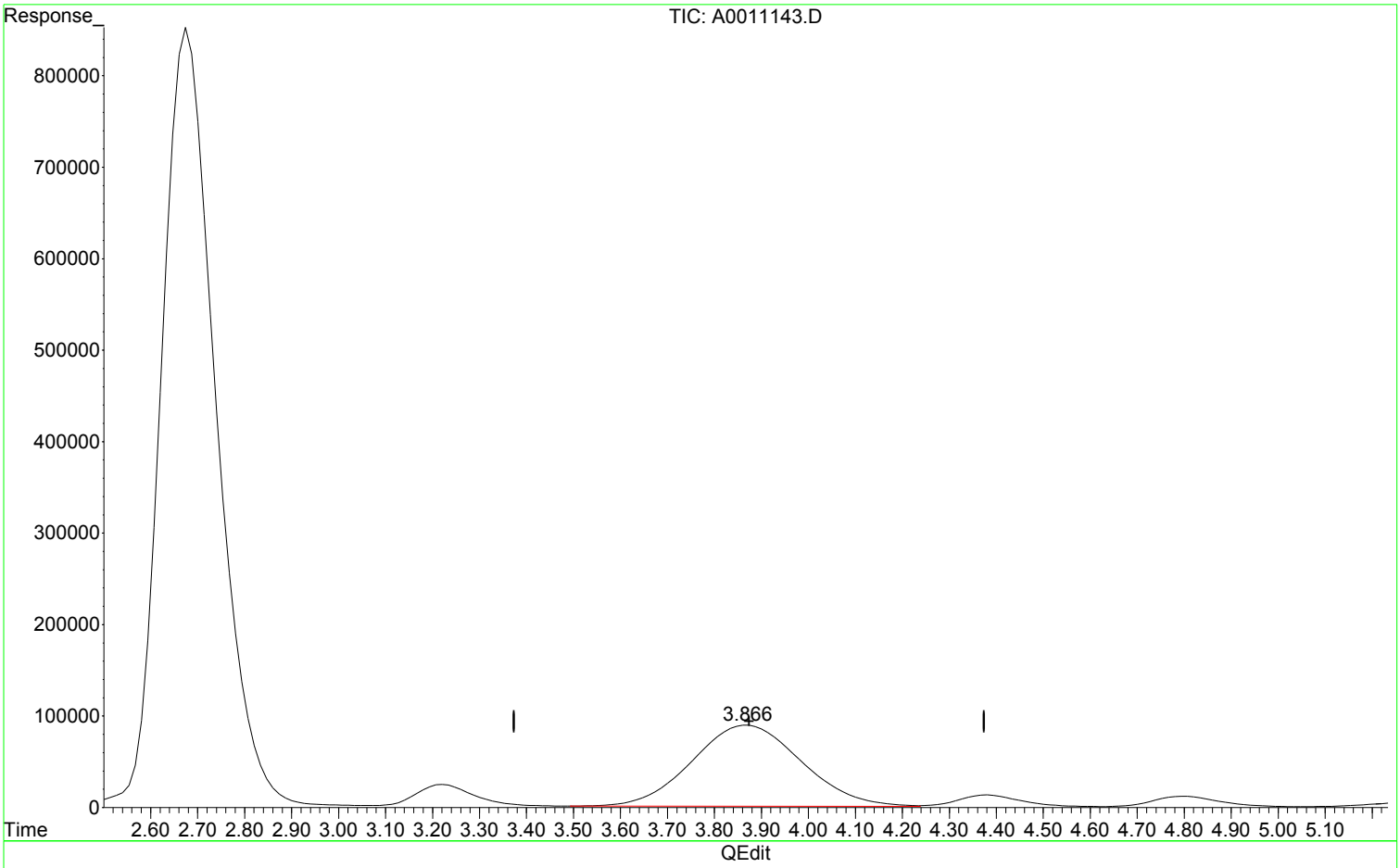
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011143.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 16:49:49
Operator : EDeGray
Sample : R2401280-008MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:34 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(2) Pyruvic acid (T)

3.871min 22.516 ppm

response 14326651

Manual Integration:

Before

02/21/24

(+) = Expected Retention Time

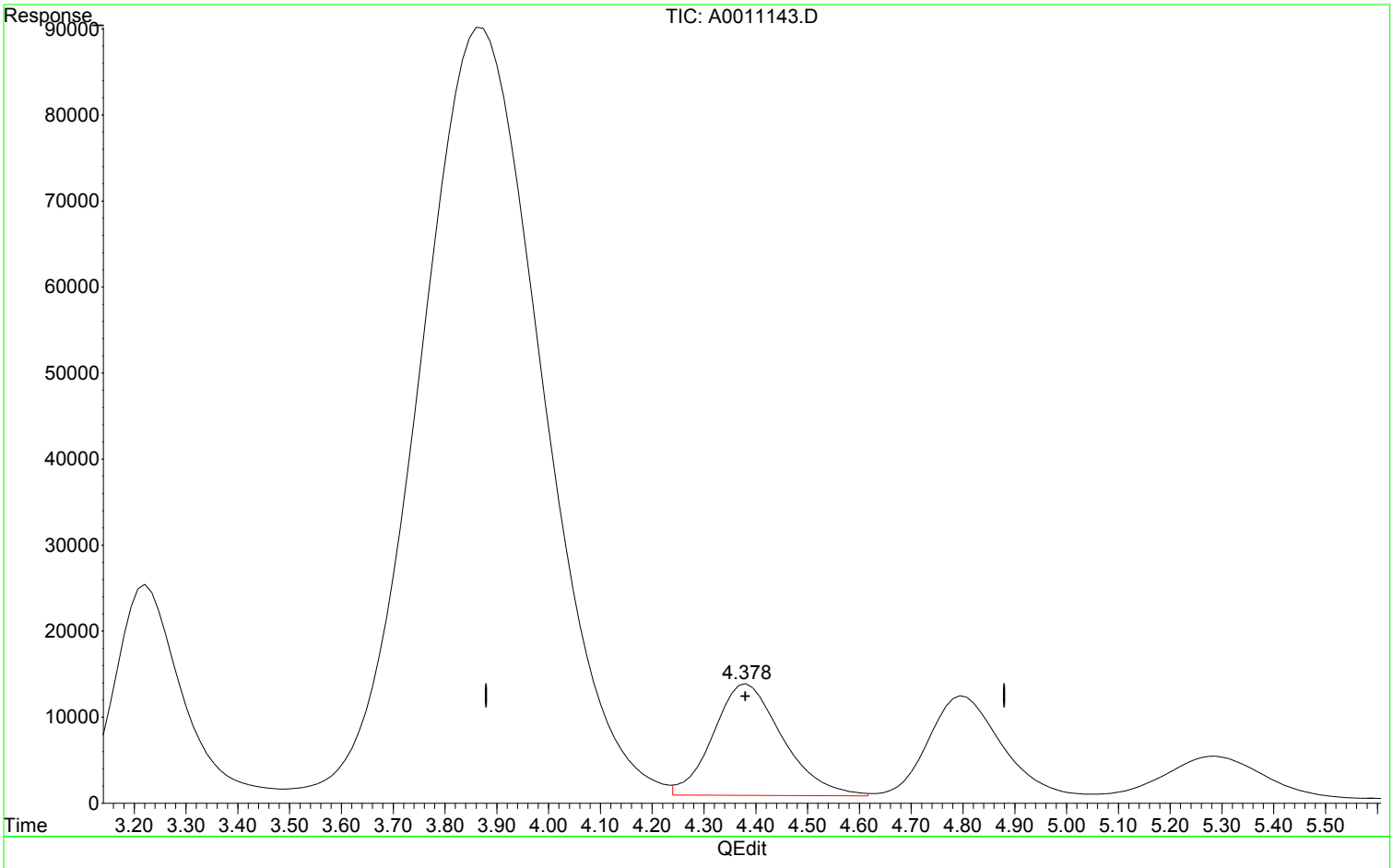
1st EDG 02/21/24
2nd AM 02/21/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011143.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 16:49:49
Operator : EDeGray
Sample : R2401280-008MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:34 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)

4.378min 18.014 ppm m

response 1205032

Manual Integration:

After

Poor integration.

02/21/24

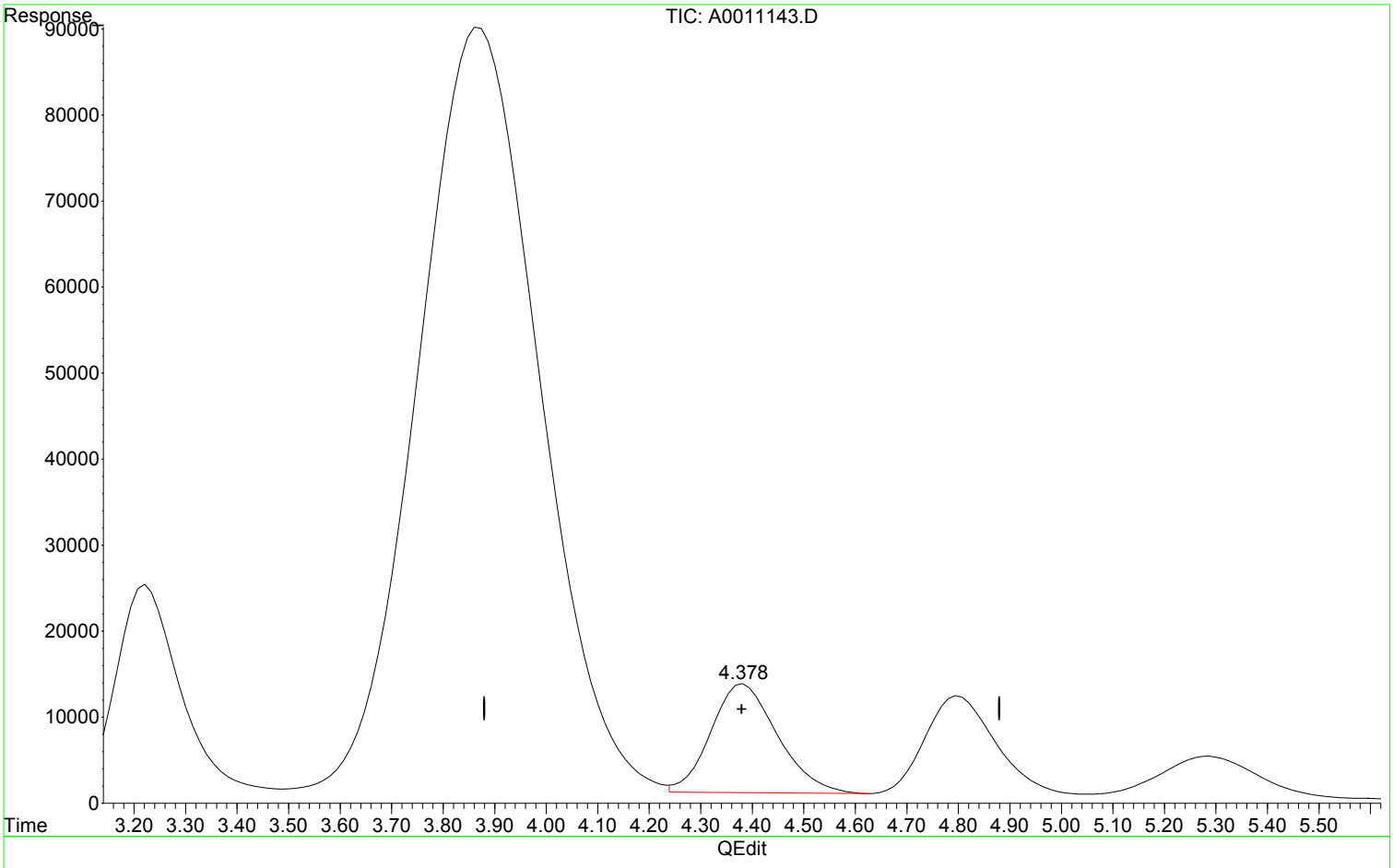
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011143.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 16:49:49
Operator : EDeGray
Sample : R2401280-008MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:34 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)

4.385min 16.986 ppm

response 1136238

Manual Integration:

Before

02/21/24

(+) = Expected Retention Time

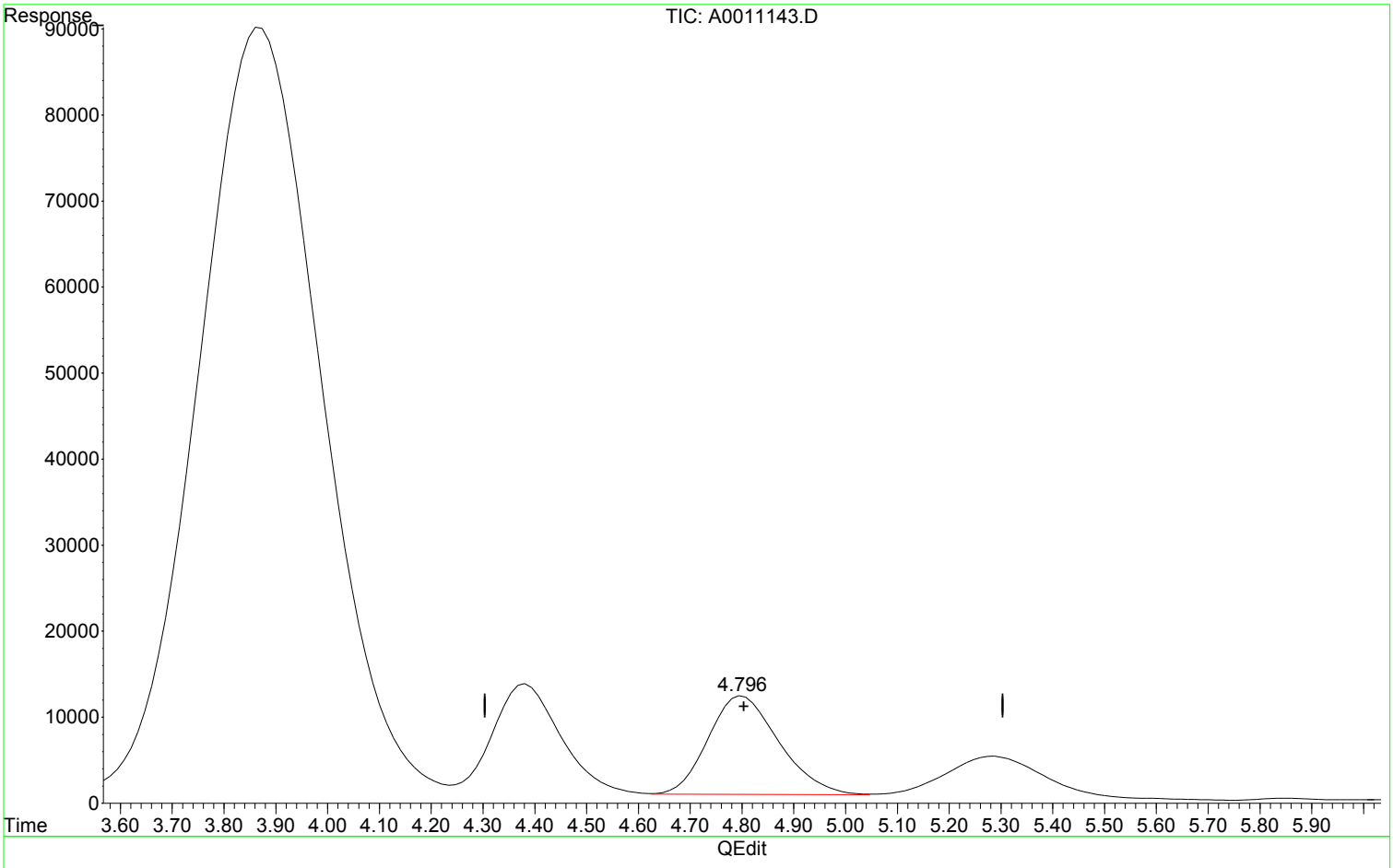
1st EDG 02/21/24
2nd AM 02/21/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011143.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 16:49:49
Operator : EDeGray
Sample : R2401280-008MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:34 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.796min 17.176 ppm m

response 1086457

Manual Integration:

After

Poor integration.

02/21/24

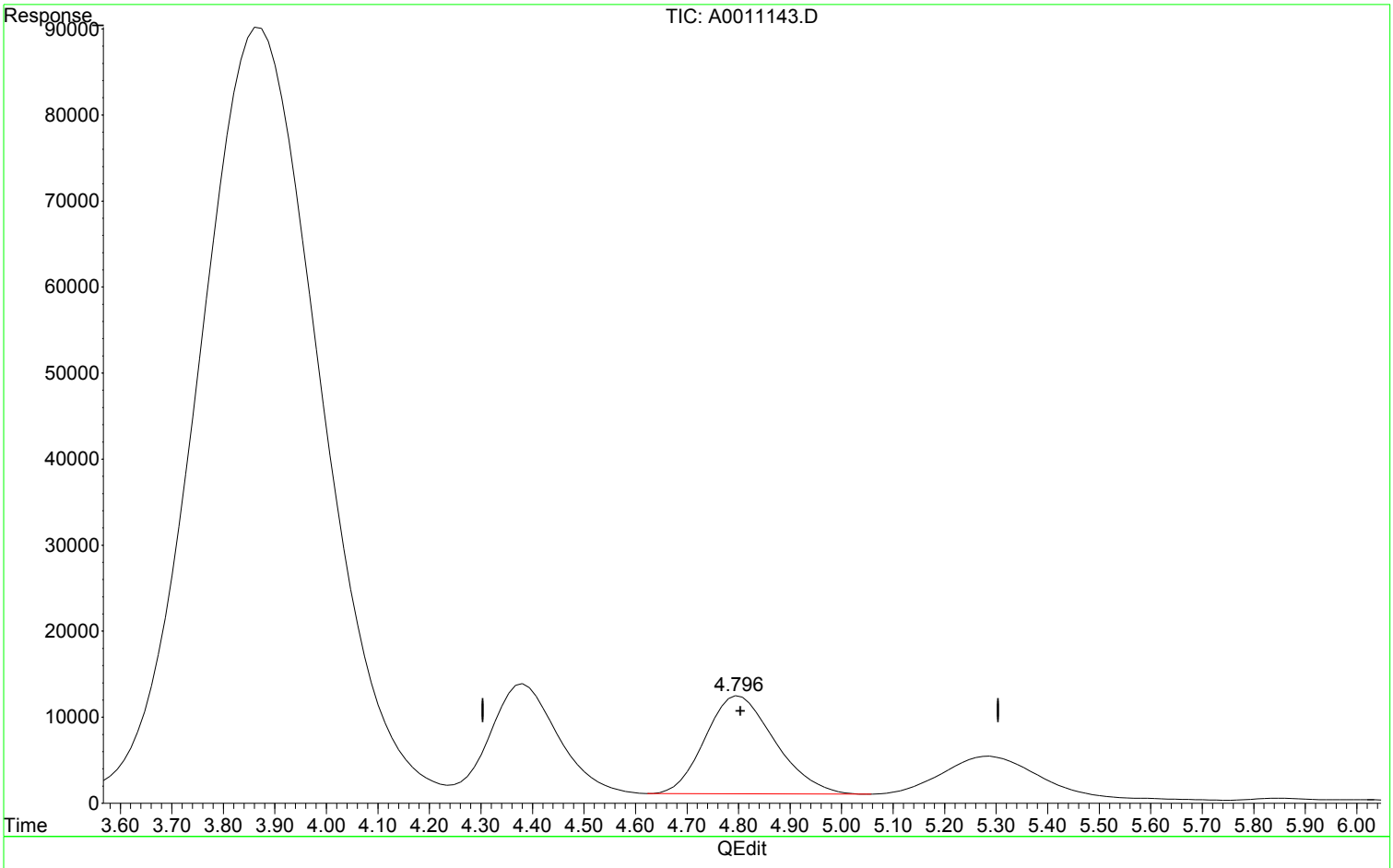
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011143.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 16:49:49
Operator : EDeGray
Sample : R2401280-008MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:34 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.803min 16.896 ppm

response 1068777

Manual Integration:

Before

02/21/24

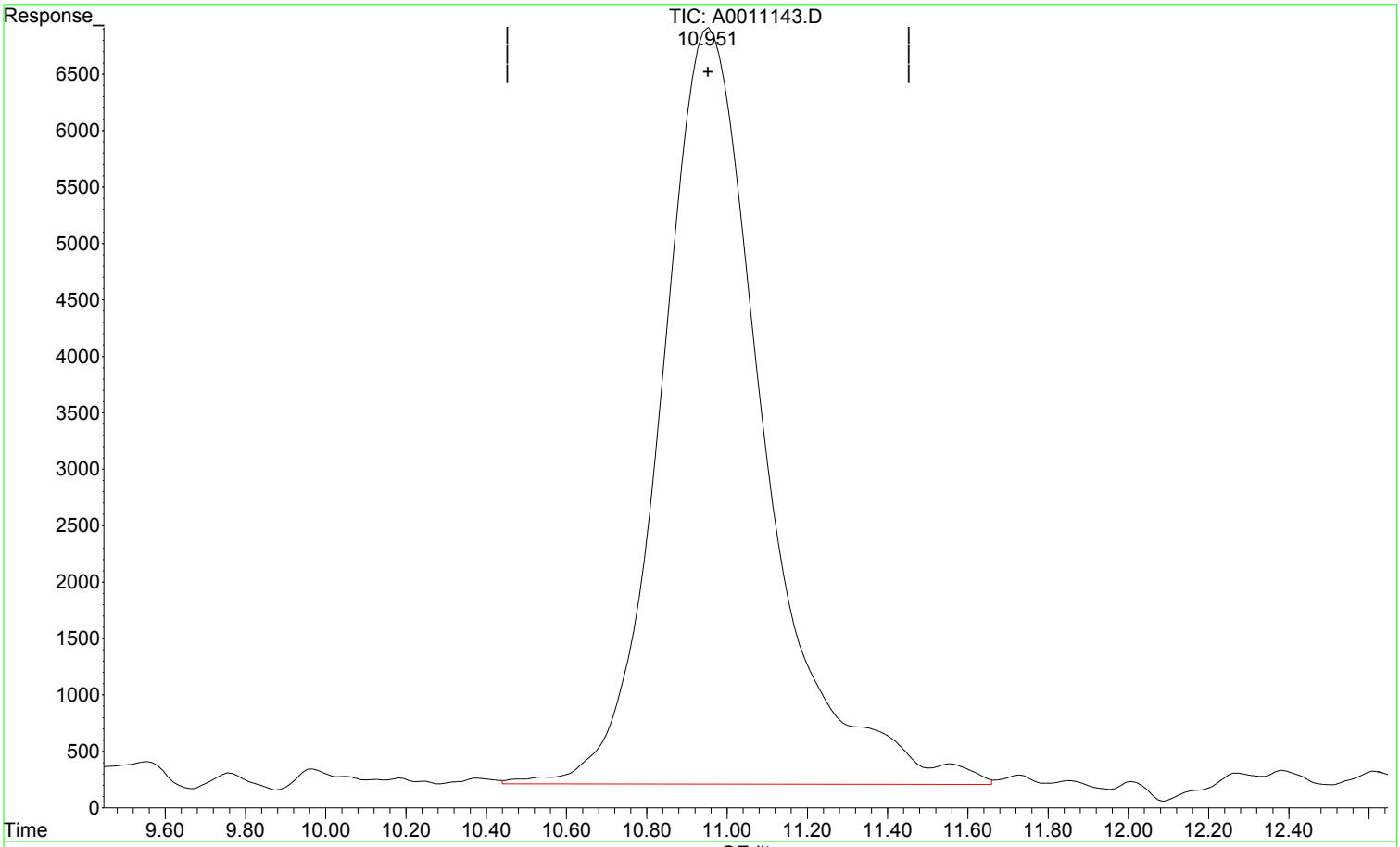
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011143.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 16:49:49
Operator : EDeGray
Sample : R2401280-008MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:34 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.951min 19.289 ppm m

response 1194736

Manual Integration:

After

Poor integration.

02/21/24

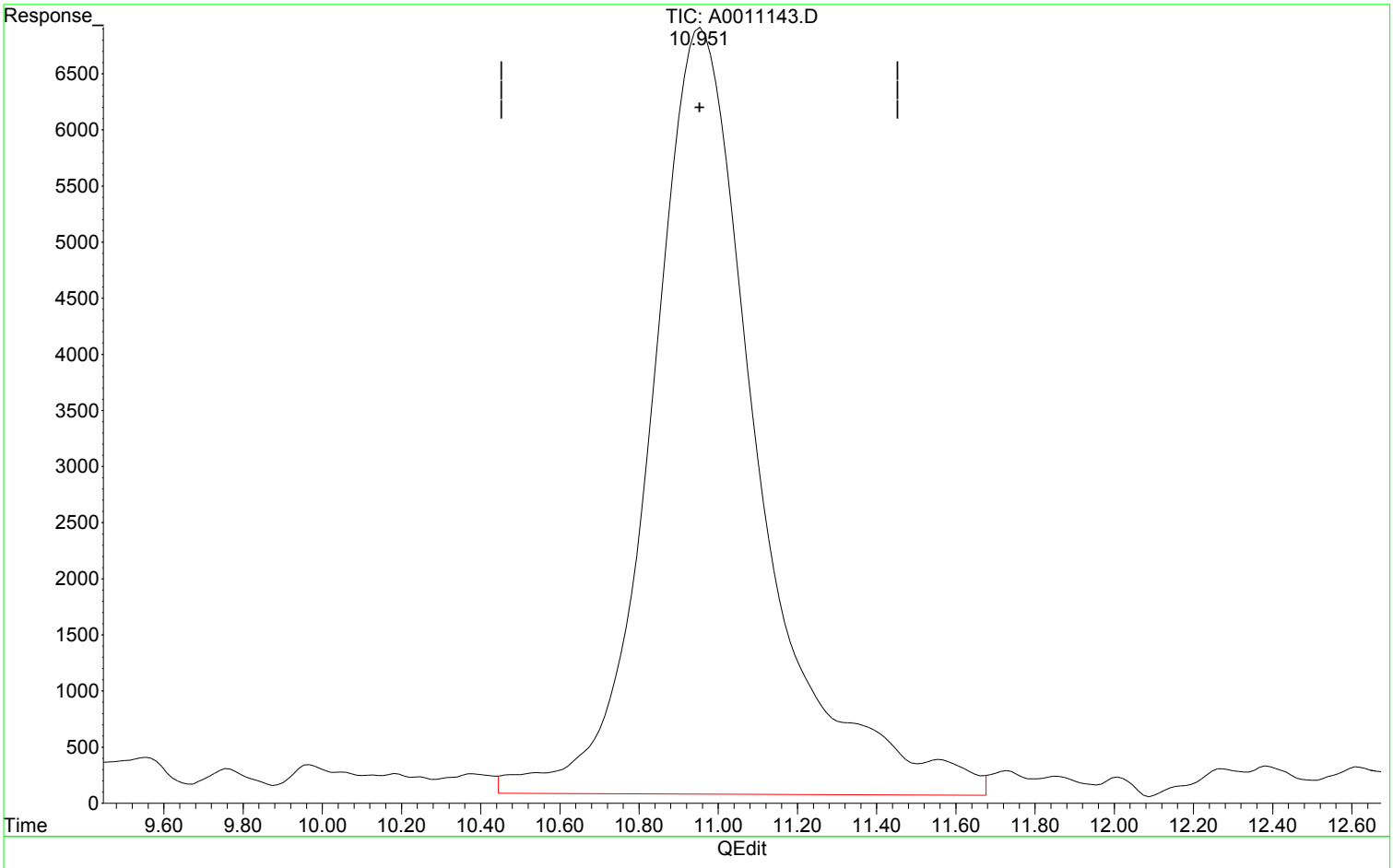
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011143.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 16:49:49
Operator : EDeGray
Sample : R2401280-008MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:34 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.958min 20.843 ppm

response 1290997

Manual Integration:

Before

02/21/24

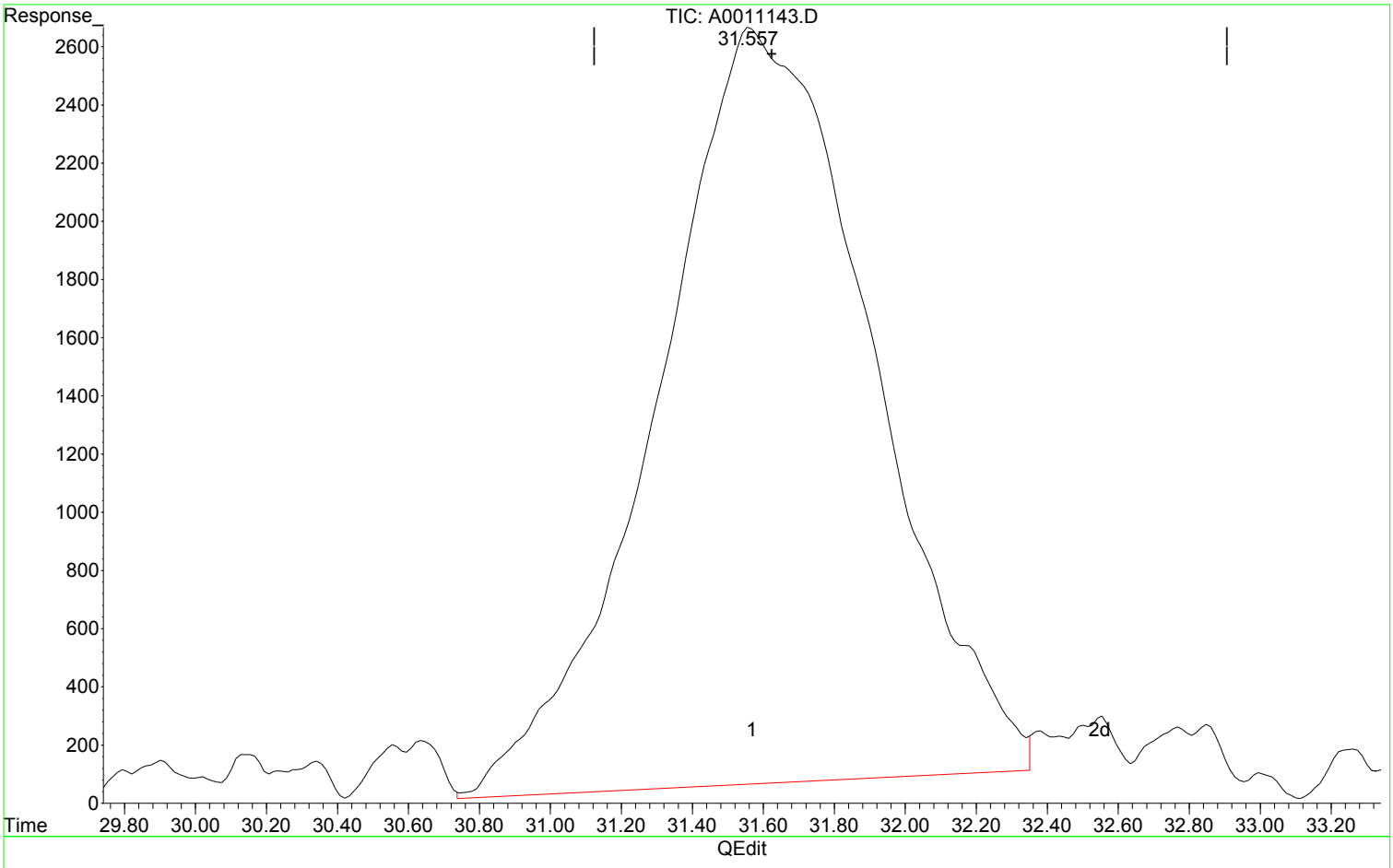
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011143.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 16:49:49
Operator : EDeGray
Sample : R2401280-008MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:34 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

31.557min 19.120 ppm m

response 1093610

Manual Integration:

After

Poor integration.

02/21/24

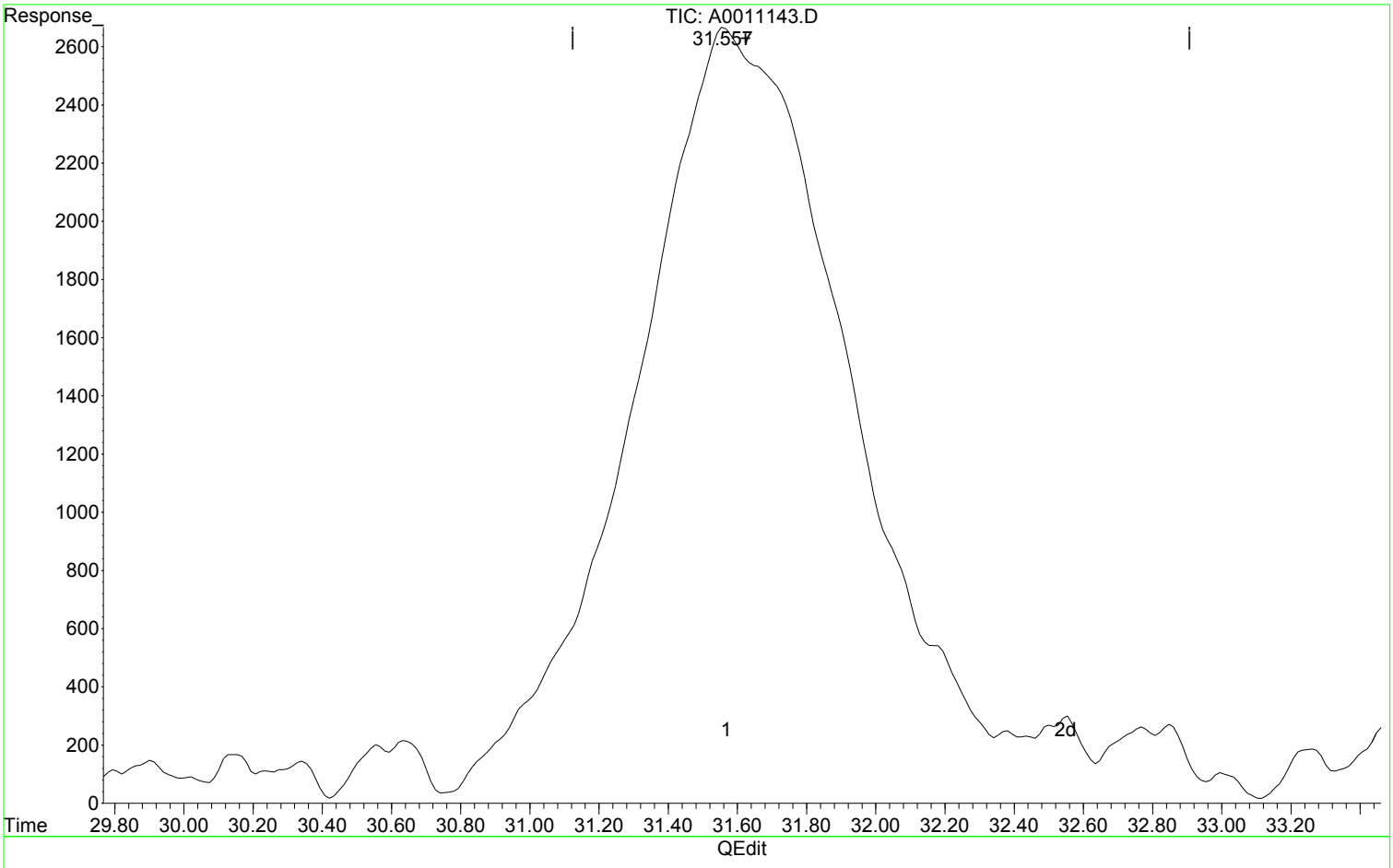
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011143.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 16:49:49
Operator : EDeGray
Sample : R2401280-008MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:34 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

31.568min 21.535 ppm

response 1231739

Manual Integration:

Before

02/21/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011143.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 16:49:49
Operator : EDeGray
Sample : R2401280-008MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:34 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.219	1951856	19.596	ppm	m
2) T	Pyruvic acid	3.865	14373970	22.590	ppm	m
3) T	Lactic Acid	4.378	1205032	18.014	ppm	m
4) T	Acetic Acid	4.796	1086457	17.176	ppm	m
5) T	Propionic Acid	10.951	1194736	19.289	ppm	m
6) T	Butyric Acid	31.557	1093610	19.120	ppm	m

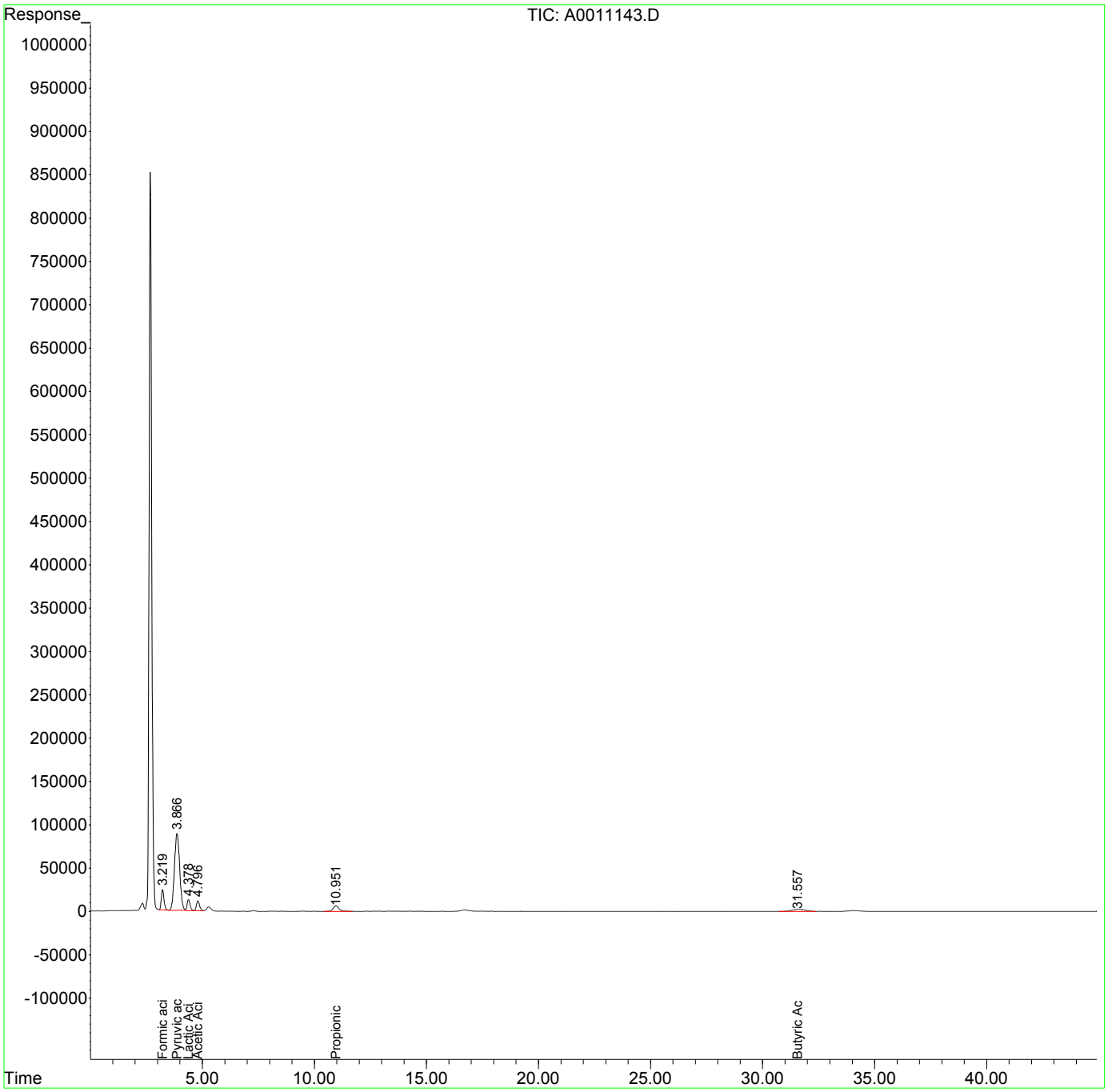
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011143.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 16:49:49
Operator : EDeGray
Sample : R2401280-008MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:34 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



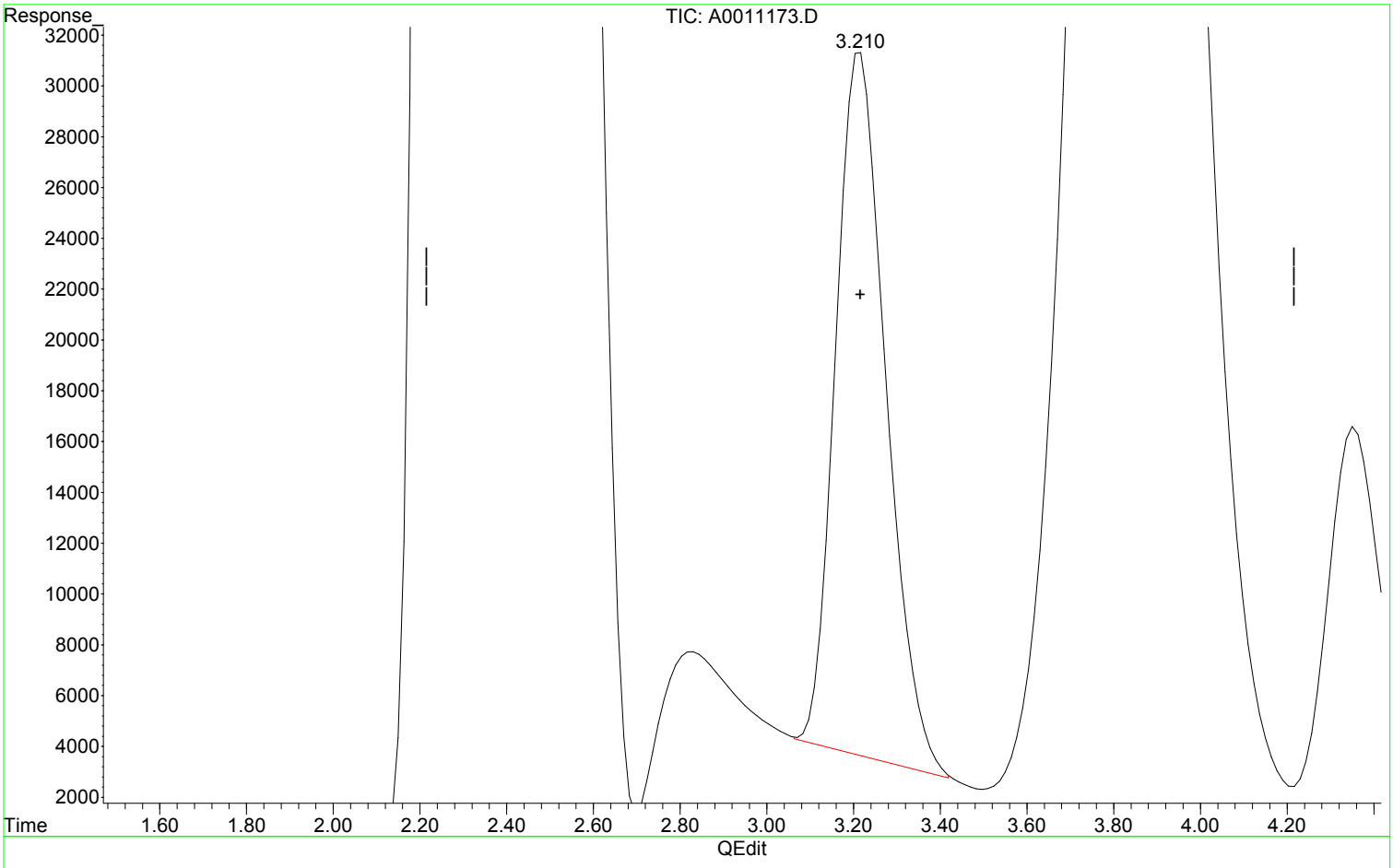
1st 02/23/24
2nd 02/27/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011173.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 01:15:25
Operator : KProcopio
Sample : R2401280-018MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:23 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)

3.210min 22.512 ppm m

response 2242273

Manual Integration:

After

Poor integration.

02/23/24

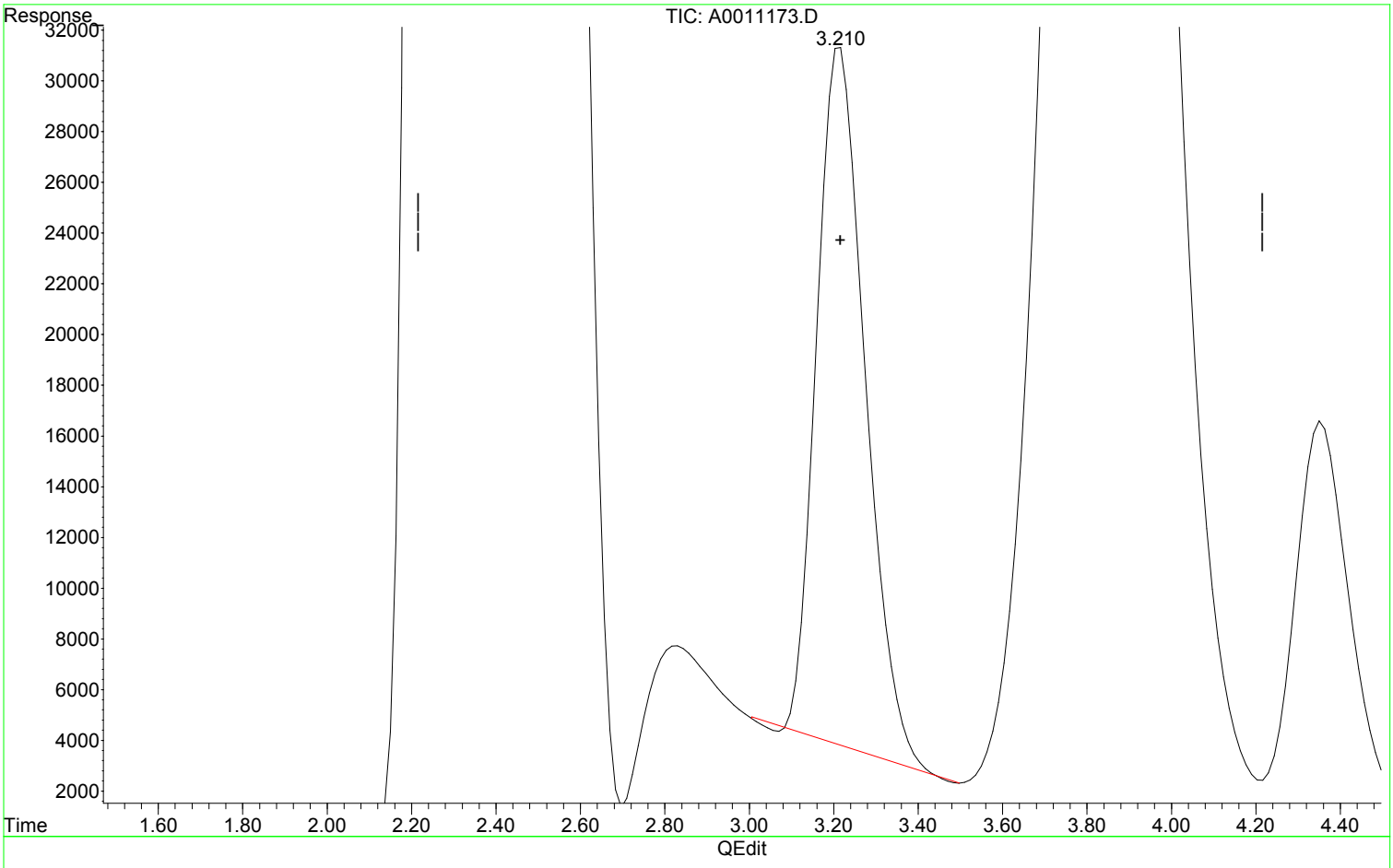
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011173.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 01:15:25
Operator : KProcopio
Sample : R2401280-018MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:23 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)

3.217min 22.210 ppm

response 2212165

Manual Integration:

Before

02/23/24

(+) = Expected Retention Time

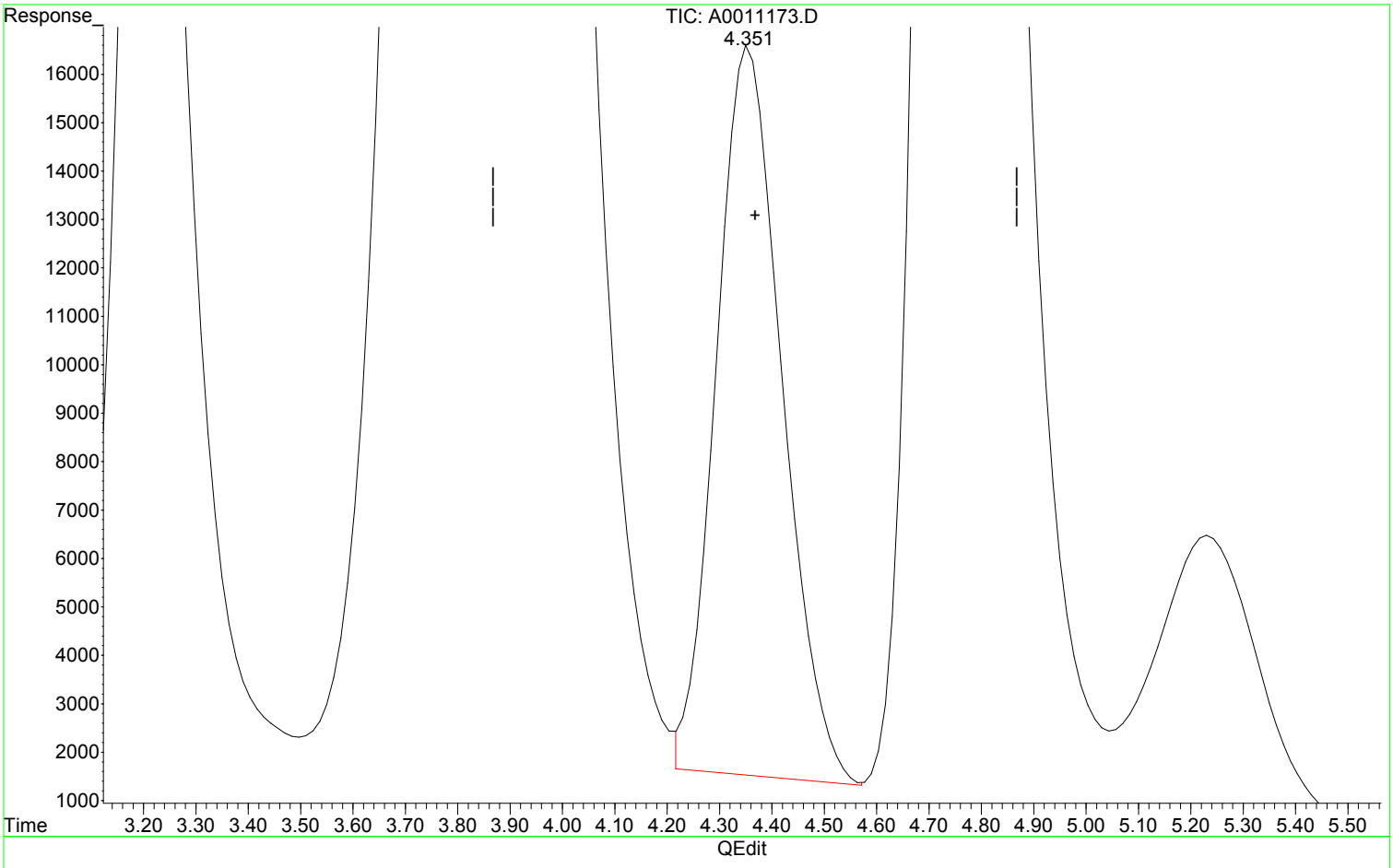
1st 02/23/24
2nd 02/27/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011173.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 01:15:25
Operator : KProcopio
Sample : R2401280-018MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:23 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)

4.351min 19.740 ppm m

response 1320512

Manual Integration:

After

Poor integration.

02/23/24

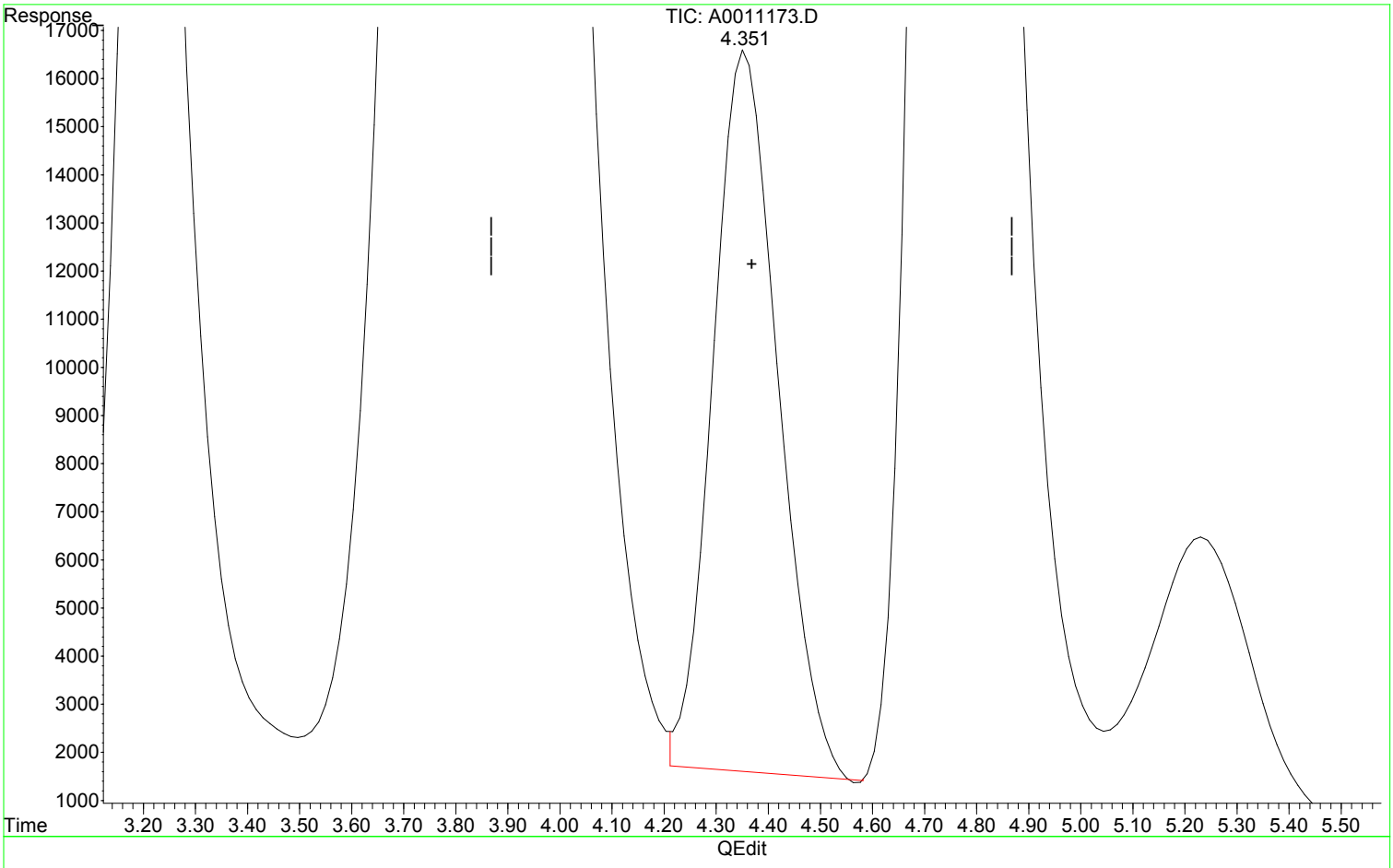
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011173.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 01:15:25
Operator : KProcopio
Sample : R2401280-018MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:23 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)

4.358min 19.559 ppm

response 1308387

Manual Integration:

Before

02/23/24

(+) = Expected Retention Time

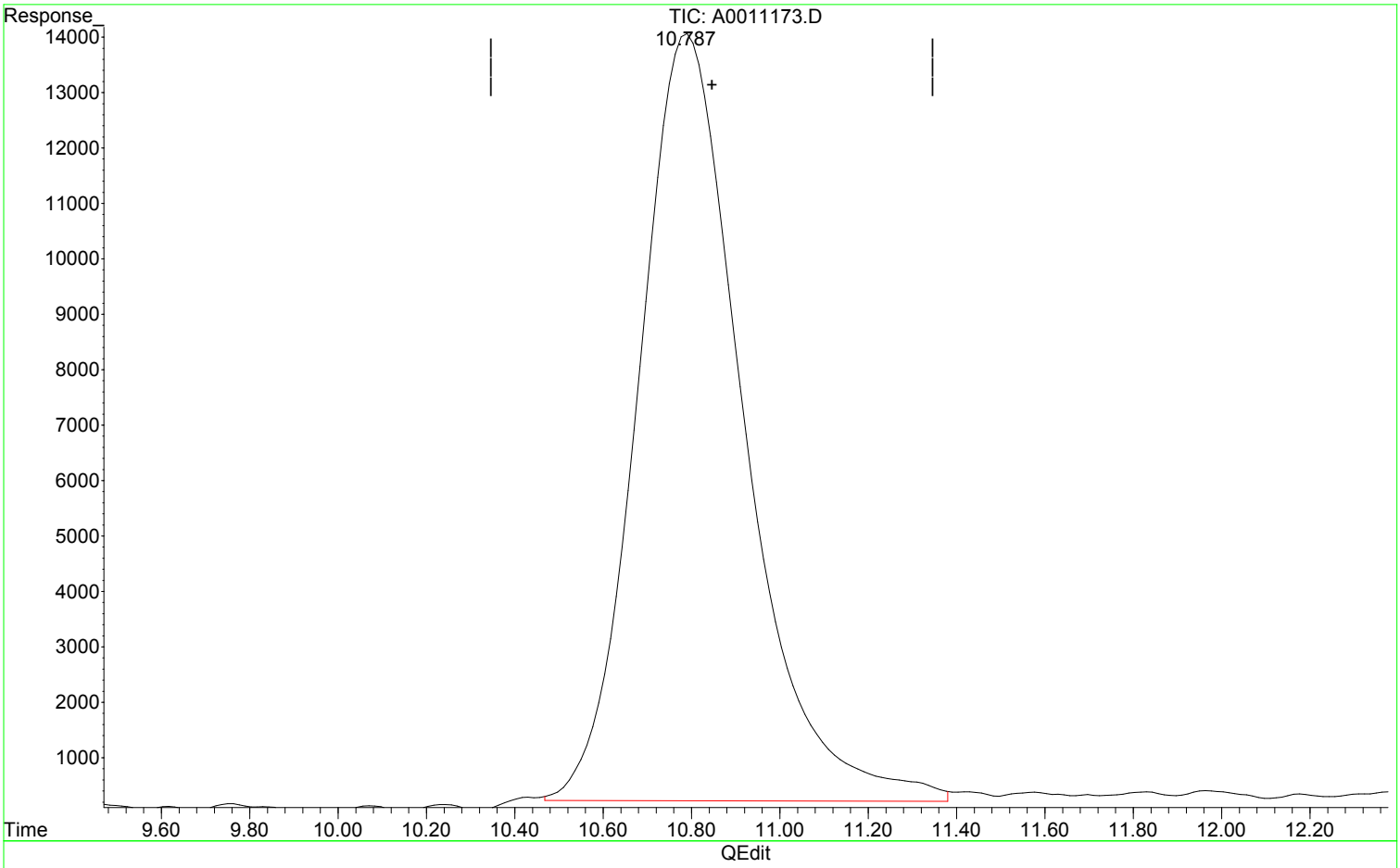
1st 02/23/24
2nd 02/27/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011173.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 01:15:25
Operator : KProcopio
Sample : R2401280-018MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:23 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.787min 37.130 ppm m

response 2299793

Manual Integration:

After

Poor integration.

02/23/24

(+) = Expected Retention Time

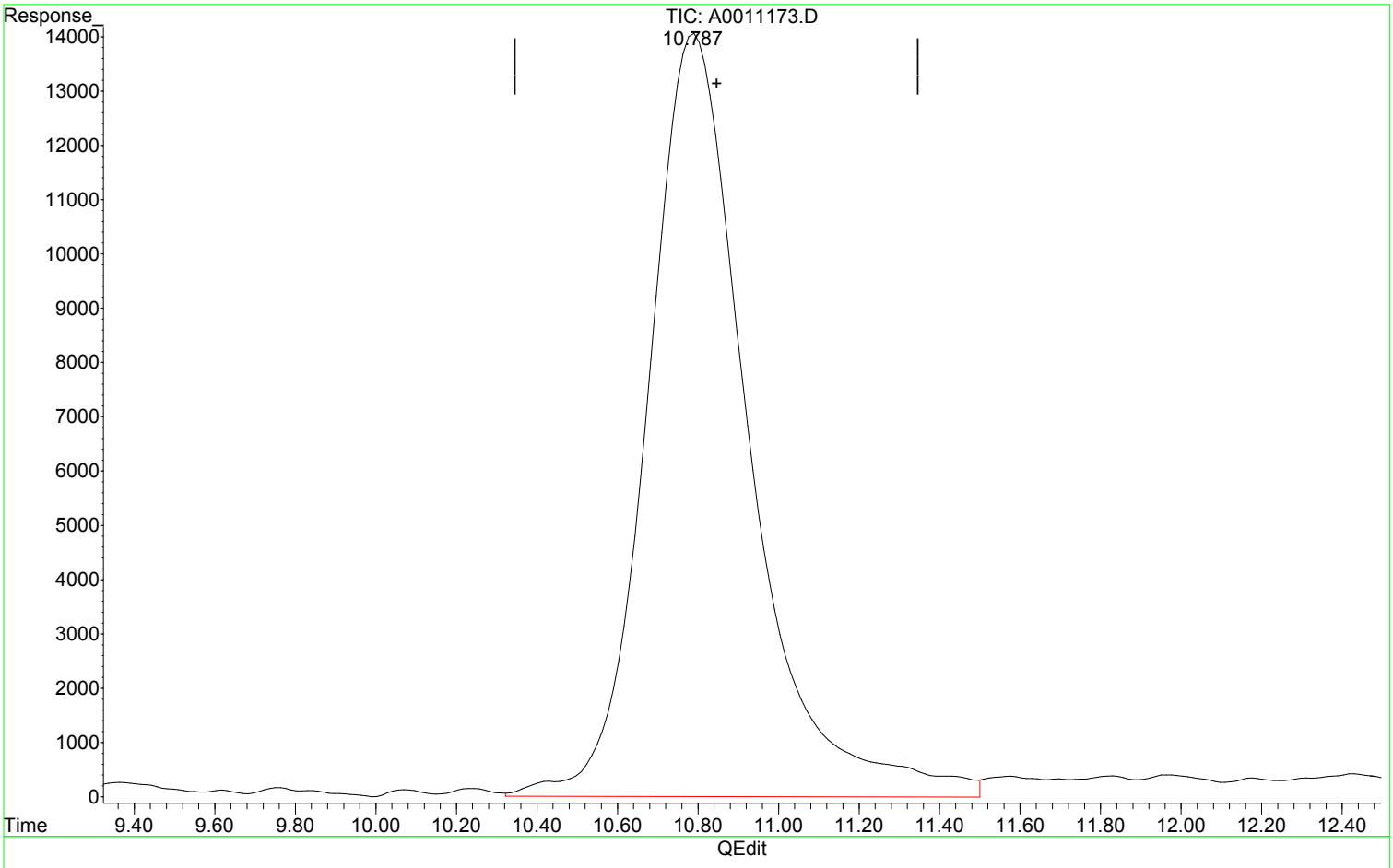
1st 02/23/24
2nd 02/27/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011173.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 01:15:25
Operator : KProcopio
Sample : R2401280-018MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:23 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.793min 39.759 ppm

response 2462611

Manual Integration:

Before

02/23/24

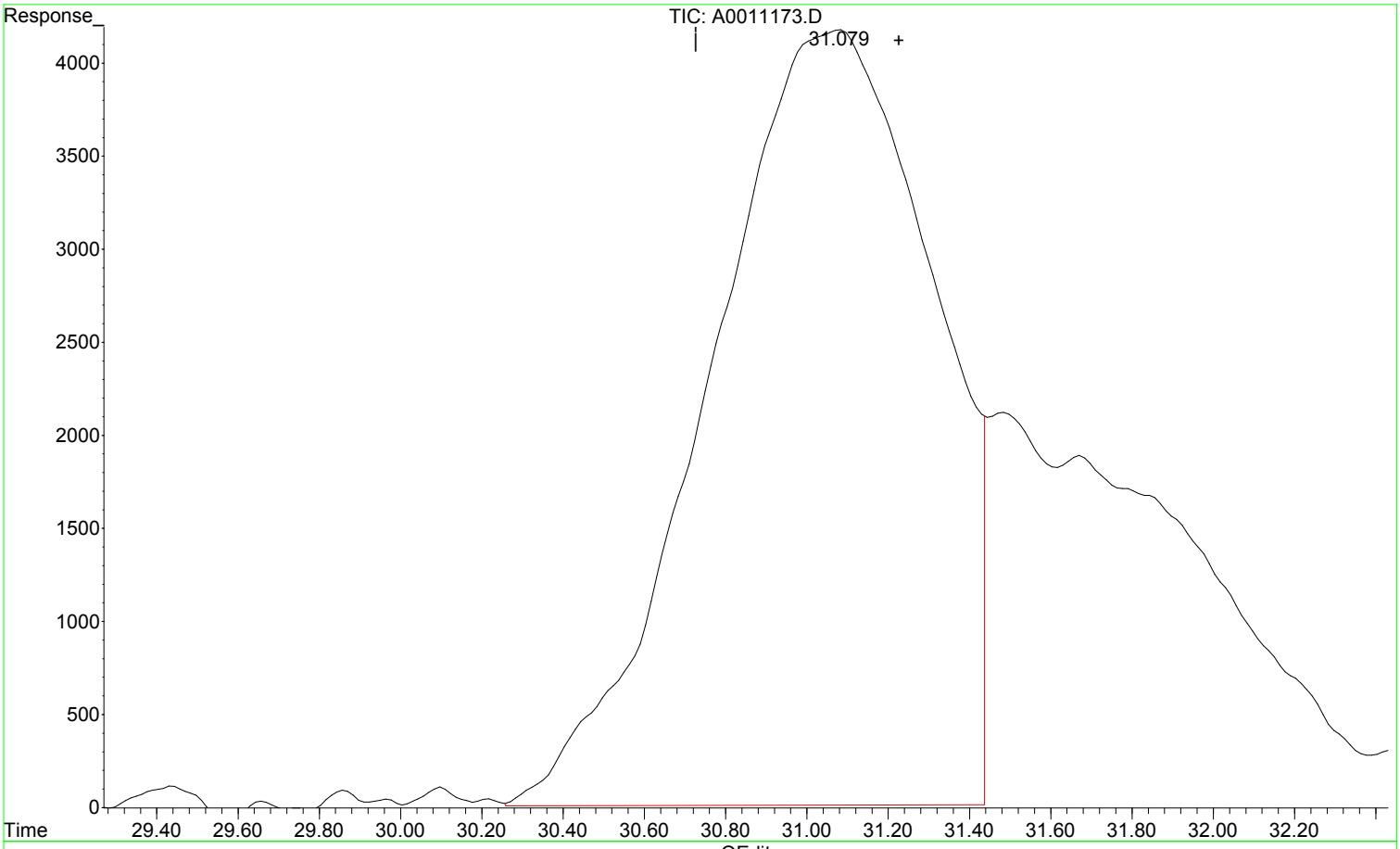
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011173.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 01:15:25
Operator : KProcopio
Sample : R2401280-018MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:23 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

31.079min 27.922 ppm m

response 1597017

Manual Integration:

After

Poor integration.

02/26/24

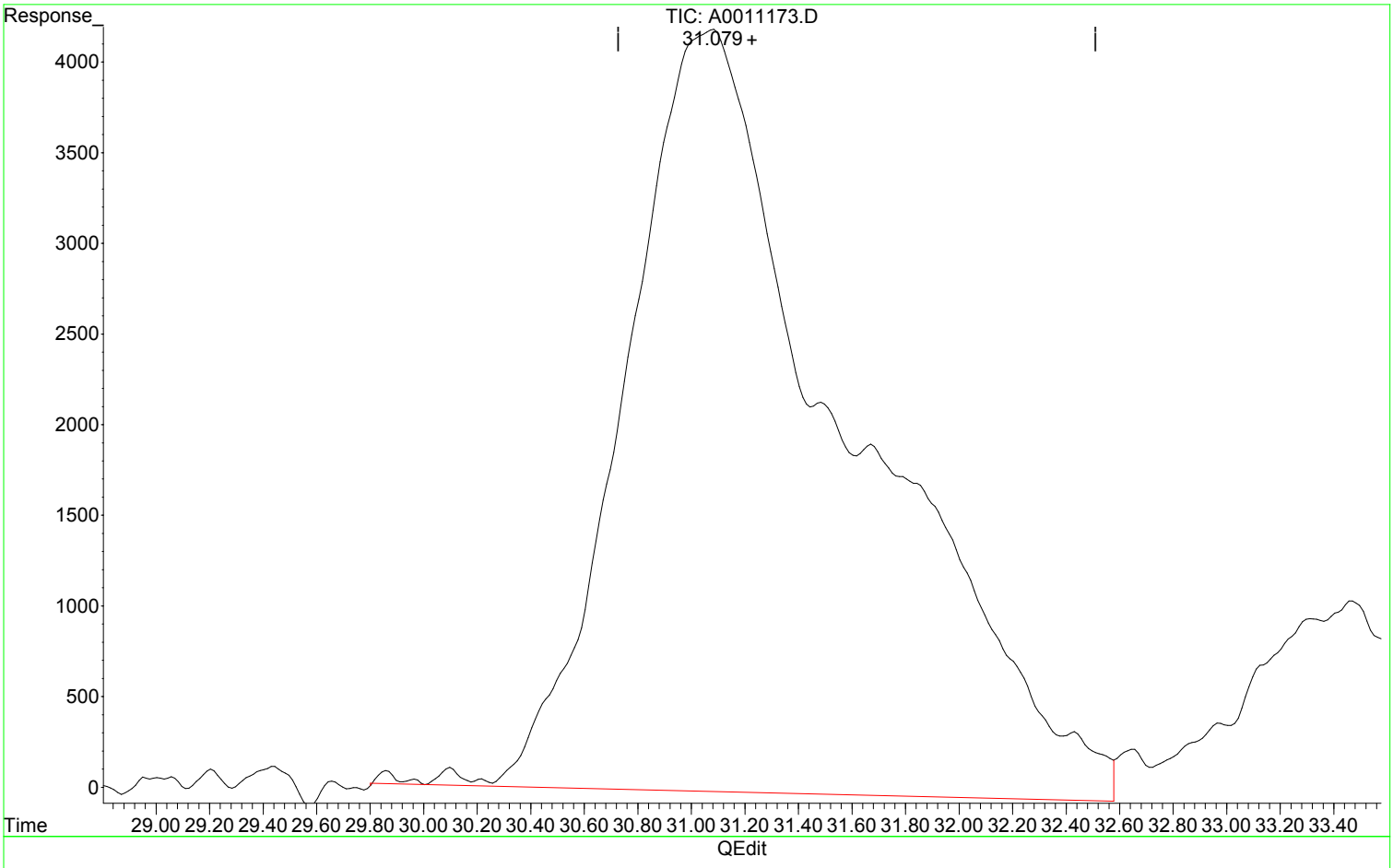
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011173.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 01:15:25
Operator : KProcopio
Sample : R2401280-018MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:23 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

31.075min 42.891 ppm

response 2453240

Manual Integration:

Before

02/23/24

(+) = Expected Retention Time

1st 02/23/24
2nd 02/27/24

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011173.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 01:15:25
Operator : KProcopio
Sample : R2401280-018MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:23 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.210	2242273	22.512	ppm	m
2) T	Pyruvic acid	3.854	16351576	25.698	ppm	
3) T	Lactic Acid	4.351	1320512	19.740	ppm	m
4) T	Acetic Acid	4.767	6701730	105.948	ppm	
5) T	Propionic Acid	10.787	2299793	37.130	ppm	m
6) T	Butyric Acid	31.079	1597017	27.922	ppm	m

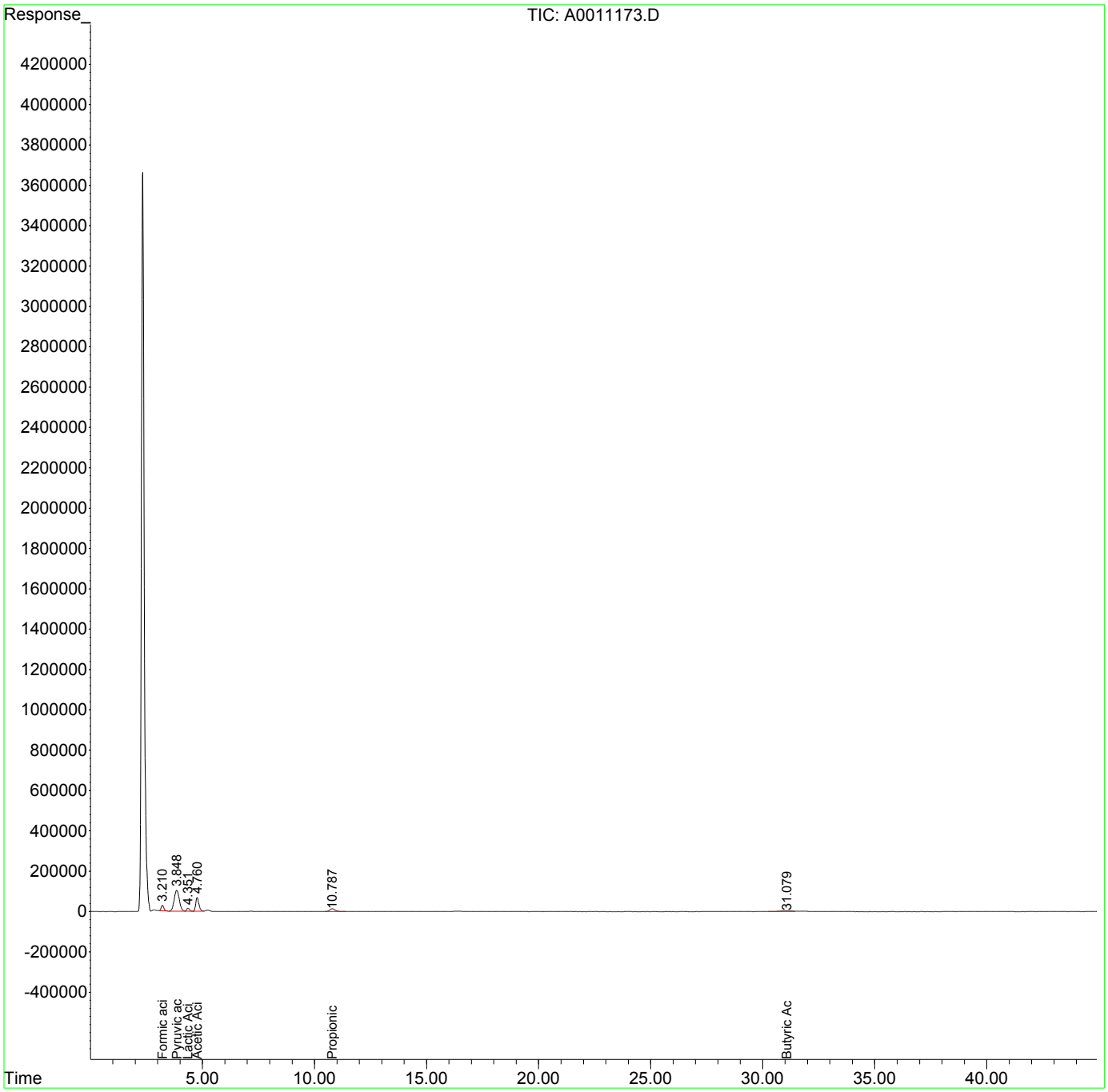
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011173.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 01:15:25
Operator : KProcopio
Sample : R2401280-018MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:23 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

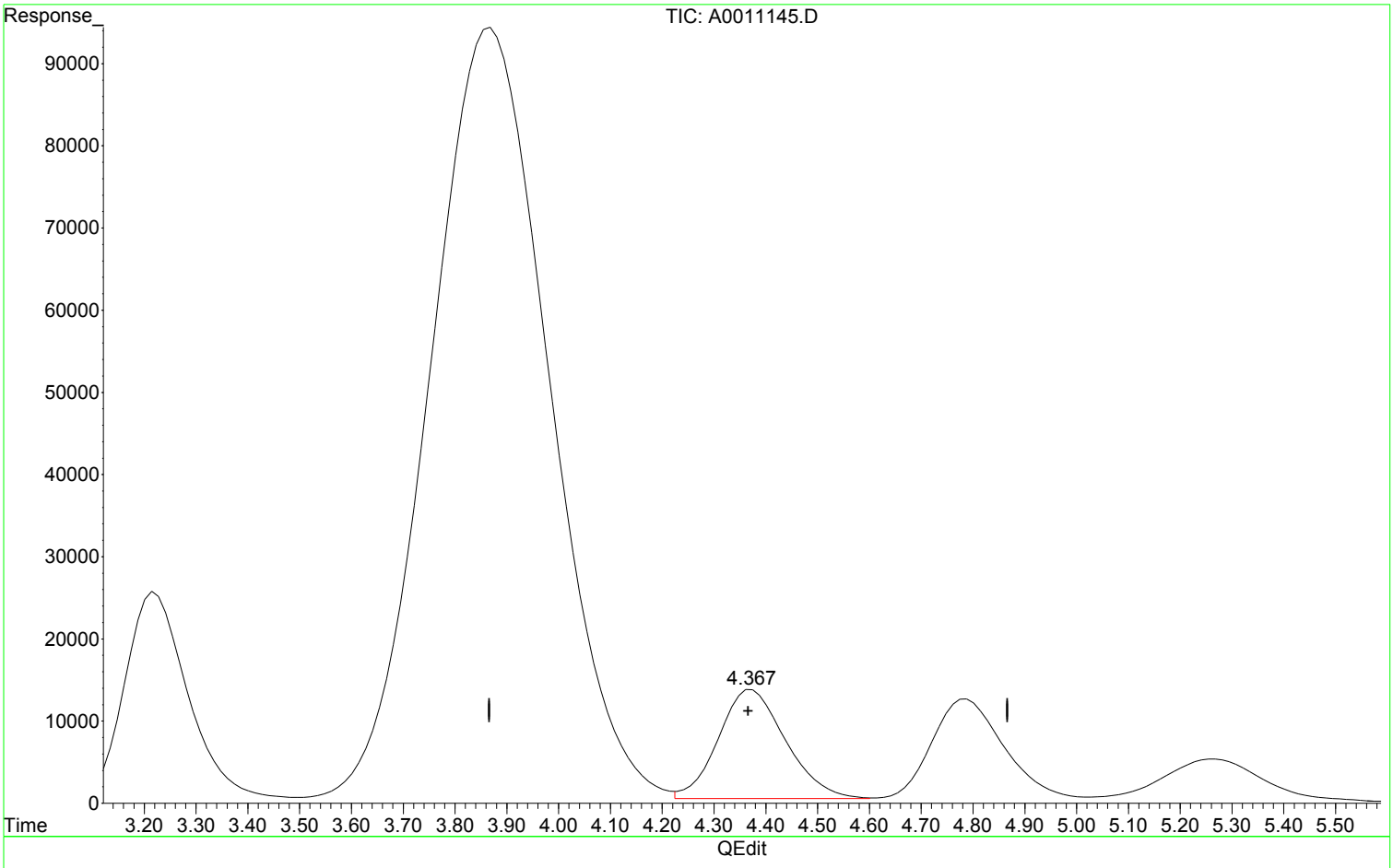


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011145.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 18:24:11
Operator : EDeGray
Sample : R2401280-008DMS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:20:38 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:20:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)

4.367min 17.936 ppm m

response 1199840

Manual Integration:

After

Poor integration.

02/21/24

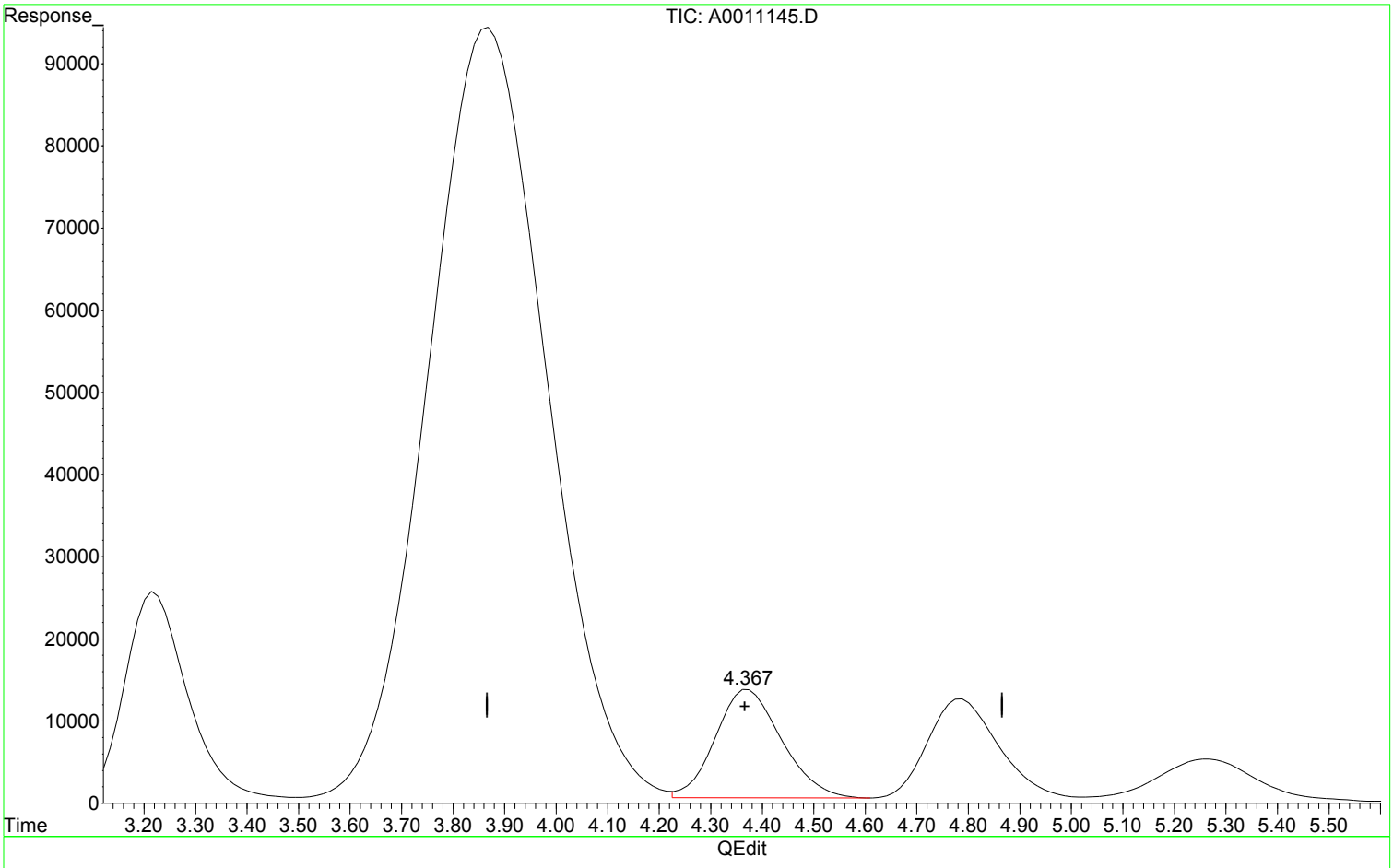
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011145.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 18:24:11
Operator : EDeGray
Sample : R2401280-008DMS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:20:38 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:20:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)

4.374min 17.613 ppm

response 1178235

Manual Integration:

Before

02/21/24

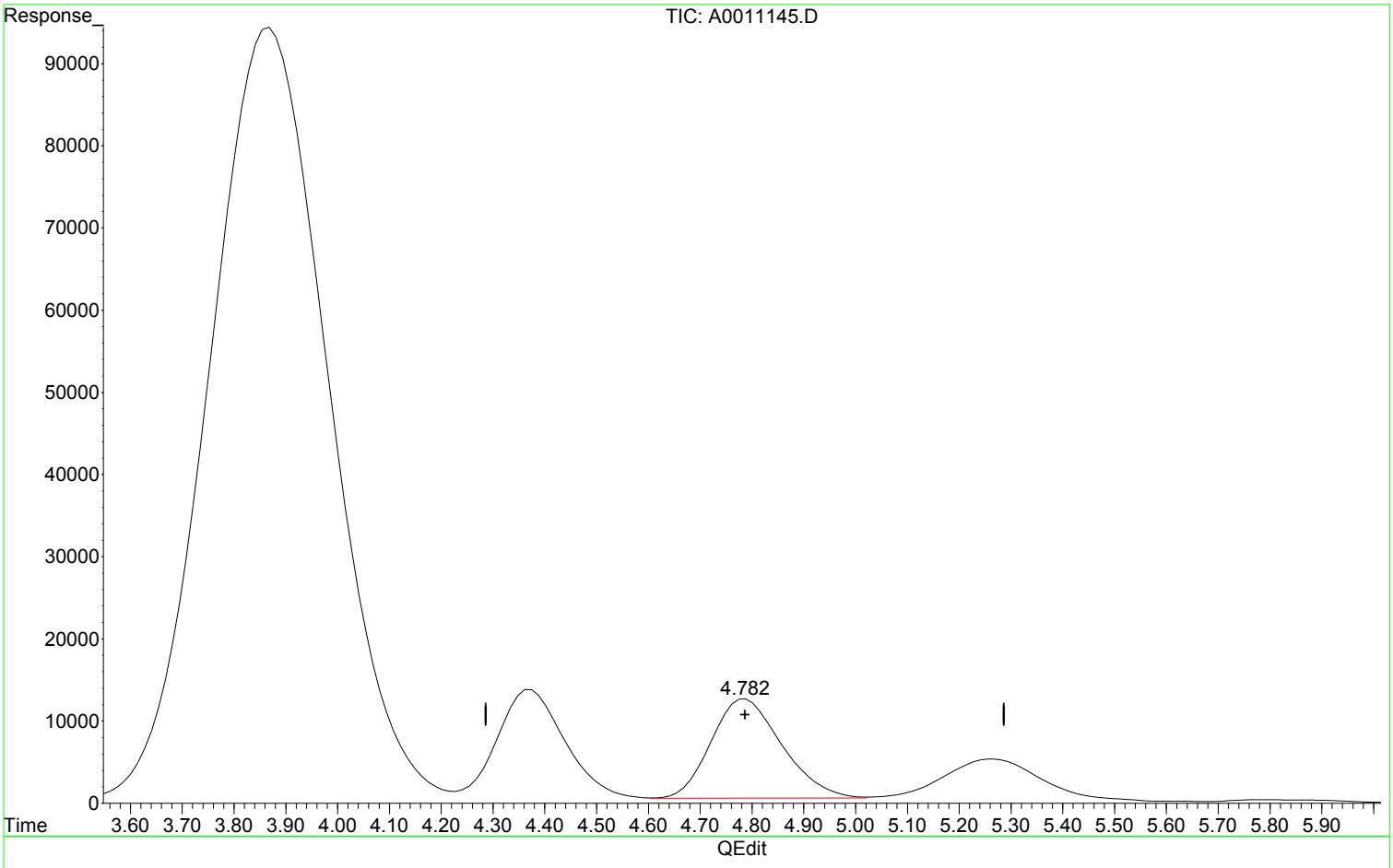
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011145.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 18:24:11
Operator : EDeGray
Sample : R2401280-008DMS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:20:38 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:20:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.782min 18.085 ppm m

response 1143981

Manual Integration:

After

Poor integration.

02/21/24

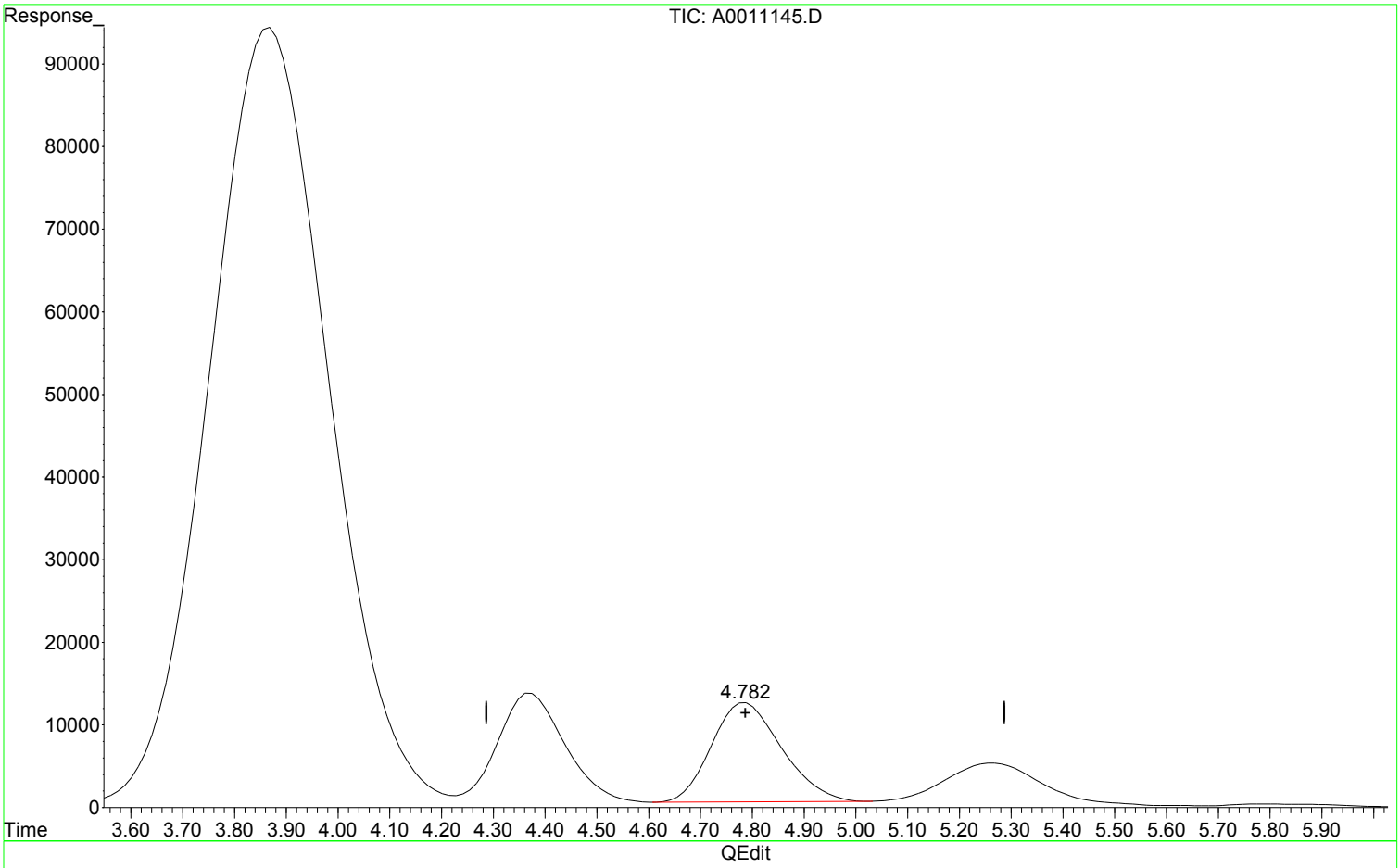
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011145.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 18:24:11
Operator : EDeGray
Sample : R2401280-008DMS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:20:38 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:20:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.788min 17.814 ppm

response 1126828

Manual Integration:

Before

02/21/24

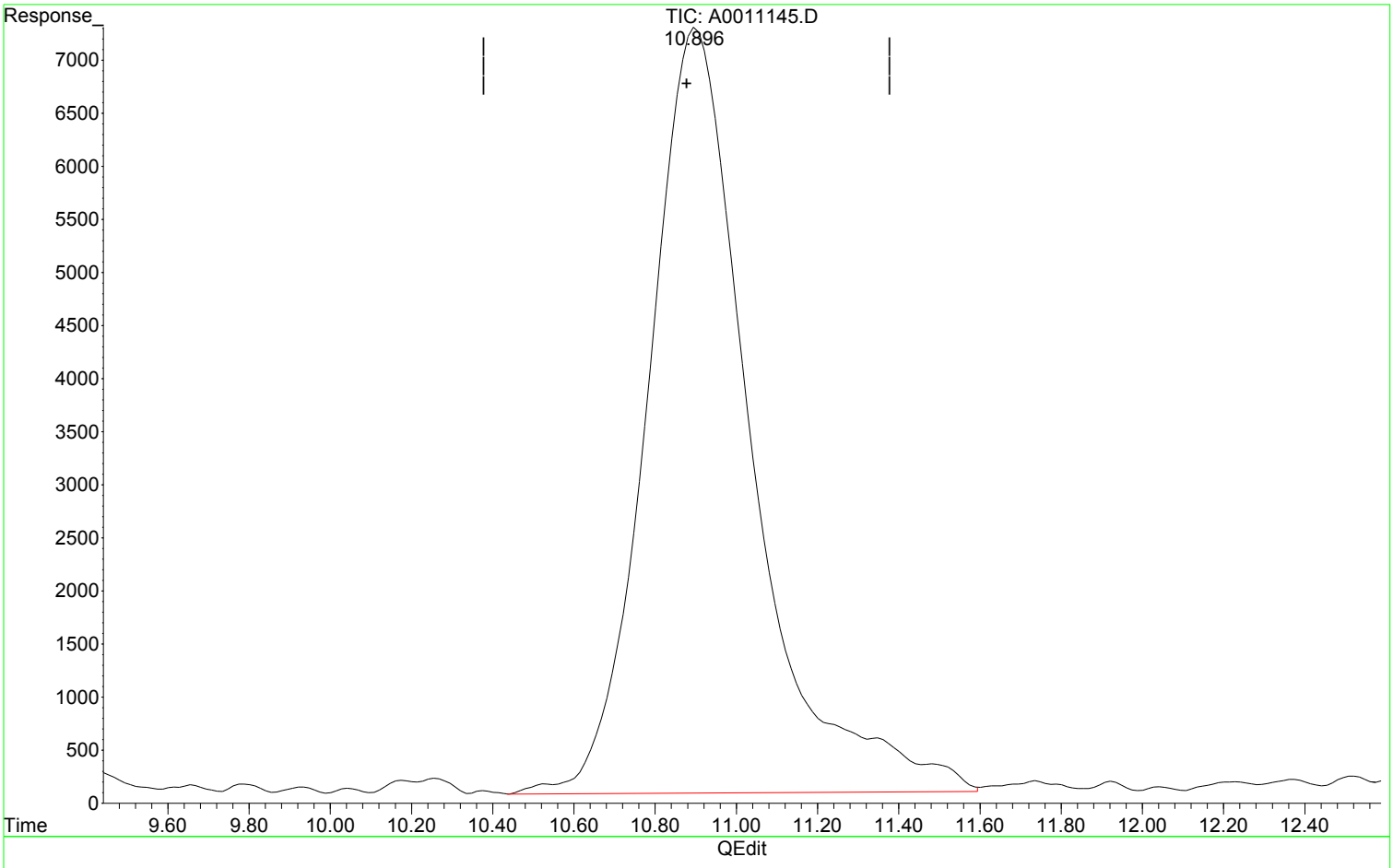
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011145.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 18:24:11
Operator : EDeGray
Sample : R2401280-008DMS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:20:38 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:20:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.896min 20.652 ppm m

response 1279172

Manual Integration:

After

Poor integration.

02/21/24

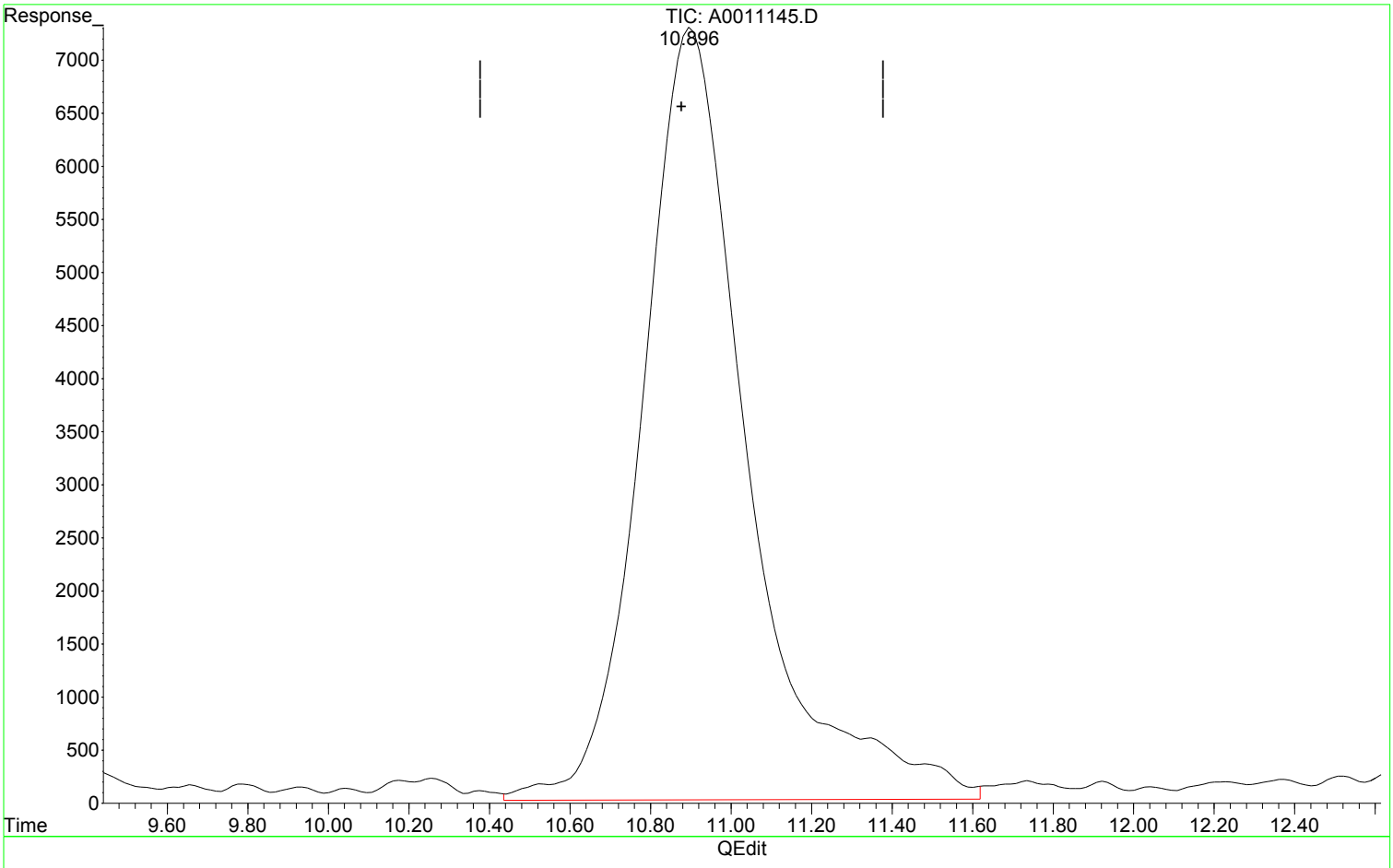
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011145.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 18:24:11
Operator : EDeGray
Sample : R2401280-008DMS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:20:38 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:20:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.902min 21.393 ppm

response 1325062

Manual Integration:

Before

02/21/24

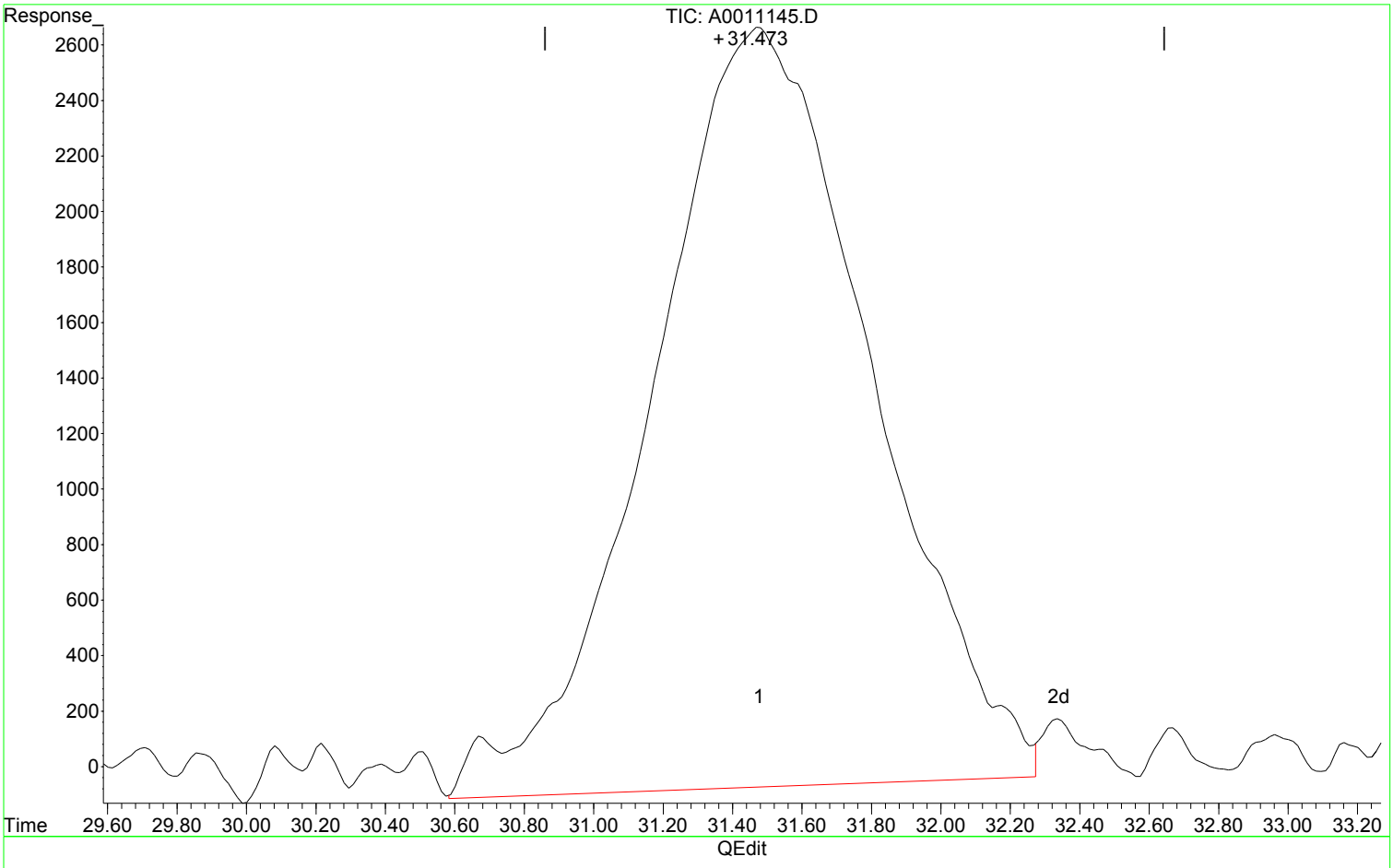
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011145.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 18:24:11
Operator : EDeGray
Sample : R2401280-008DMS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:20:38 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:20:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

31.473min 21.000 ppm m

response 1201143

Manual Integration:

After

Poor integration.

02/21/24

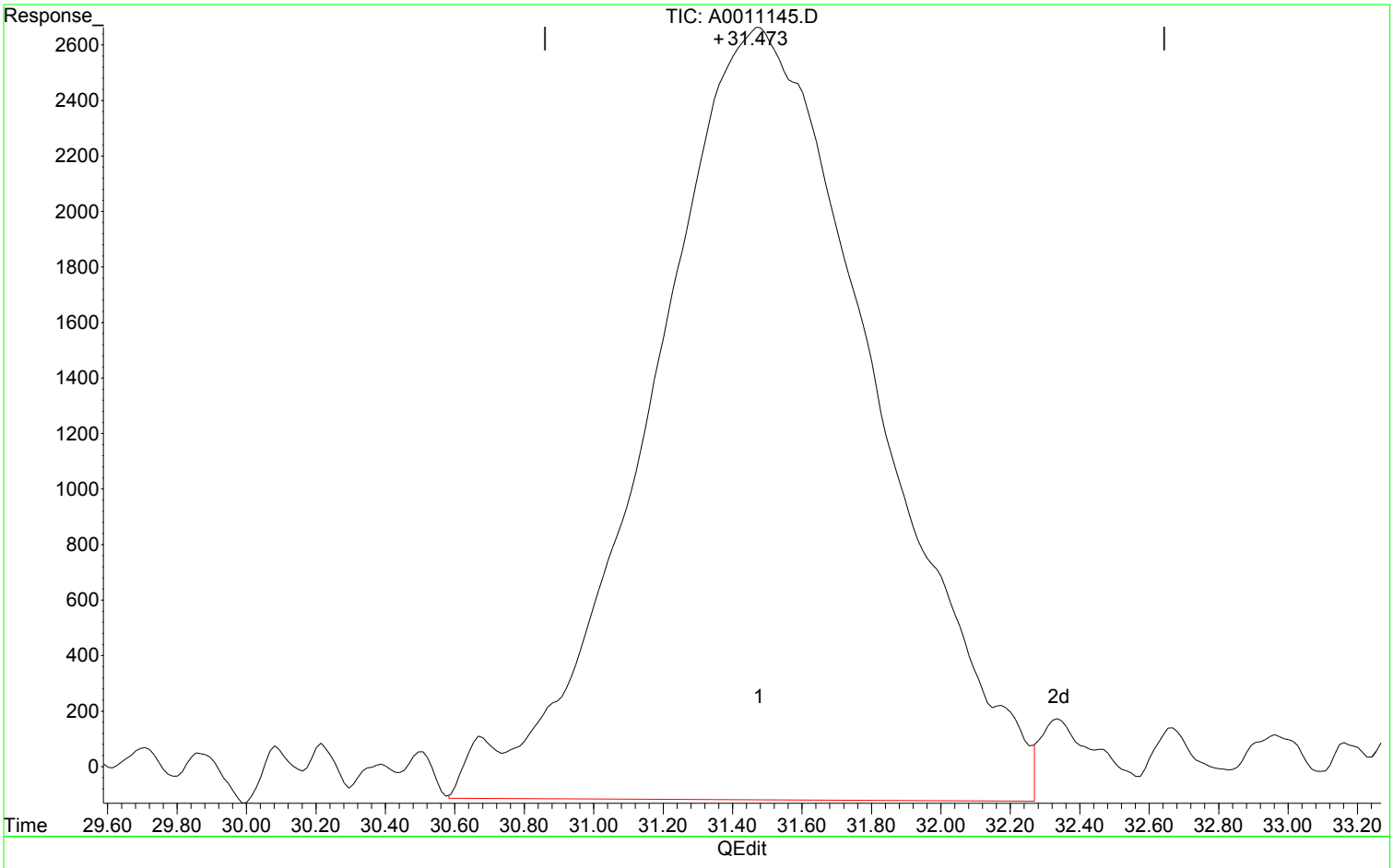
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011145.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 18:24:11
Operator : EDeGray
Sample : R2401280-008DMS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:20:38 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:20:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

31.476min 21.750 ppm

response 1244048

Manual Integration:

Before

02/21/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011145.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 18:24:11
Operator : EDeGray
Sample : R2401280-008DMS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:20:38 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:20:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.223	1980746	19.886	ppm	
2) T	Pyruvic acid	3.869	14827591	23.303	ppm	
3) T	Lactic Acid	4.367	1199840	17.936	ppm	m
4) T	Acetic Acid	4.782	1143981	18.085	ppm	m
5) T	Propionic Acid	10.896	1279172	20.652	ppm	m
6) T	Butyric Acid	31.473	1201143	21.000	ppm	m

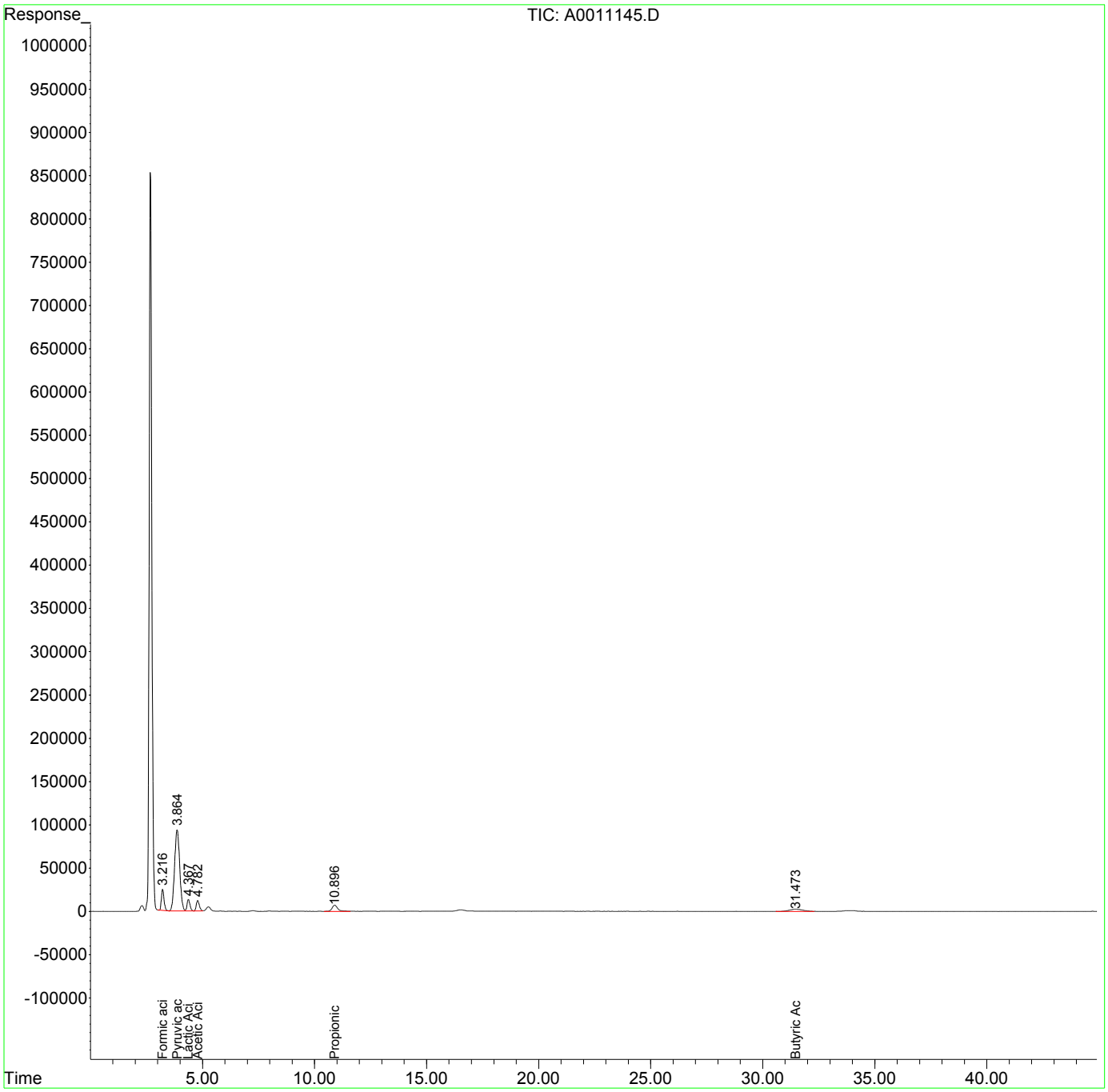
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011145.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 18:24:11
Operator : EDeGray
Sample : R2401280-008DMS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:20:38 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:20:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

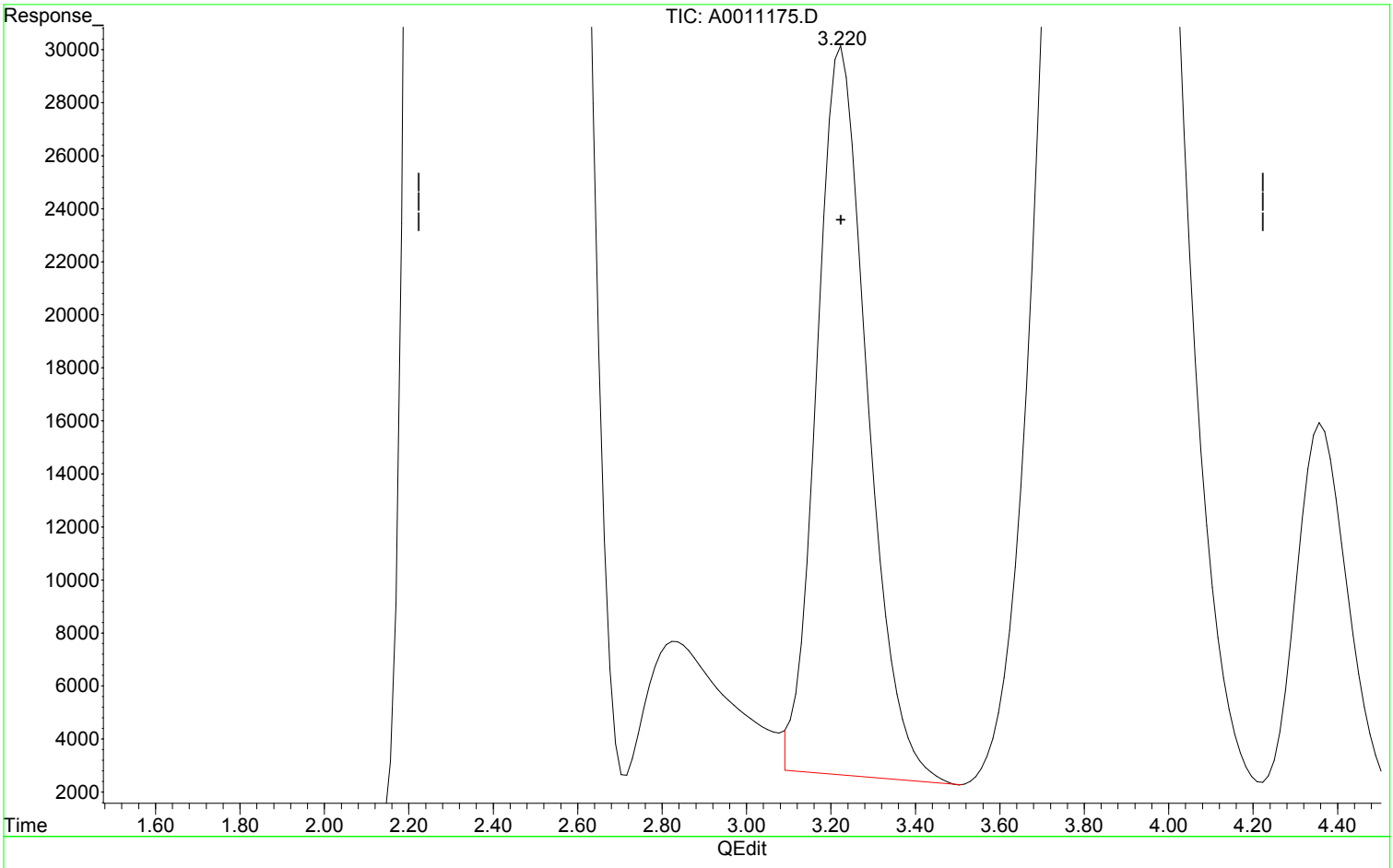


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011175.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 02:49:53
Operator : KProcopio
Sample : R2401280-018DMS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:15:22 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:15:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)

3.220min 23.126 ppm m

response 2303392

Manual Integration:

After

Poor integration.

02/23/24

(+) = Expected Retention Time

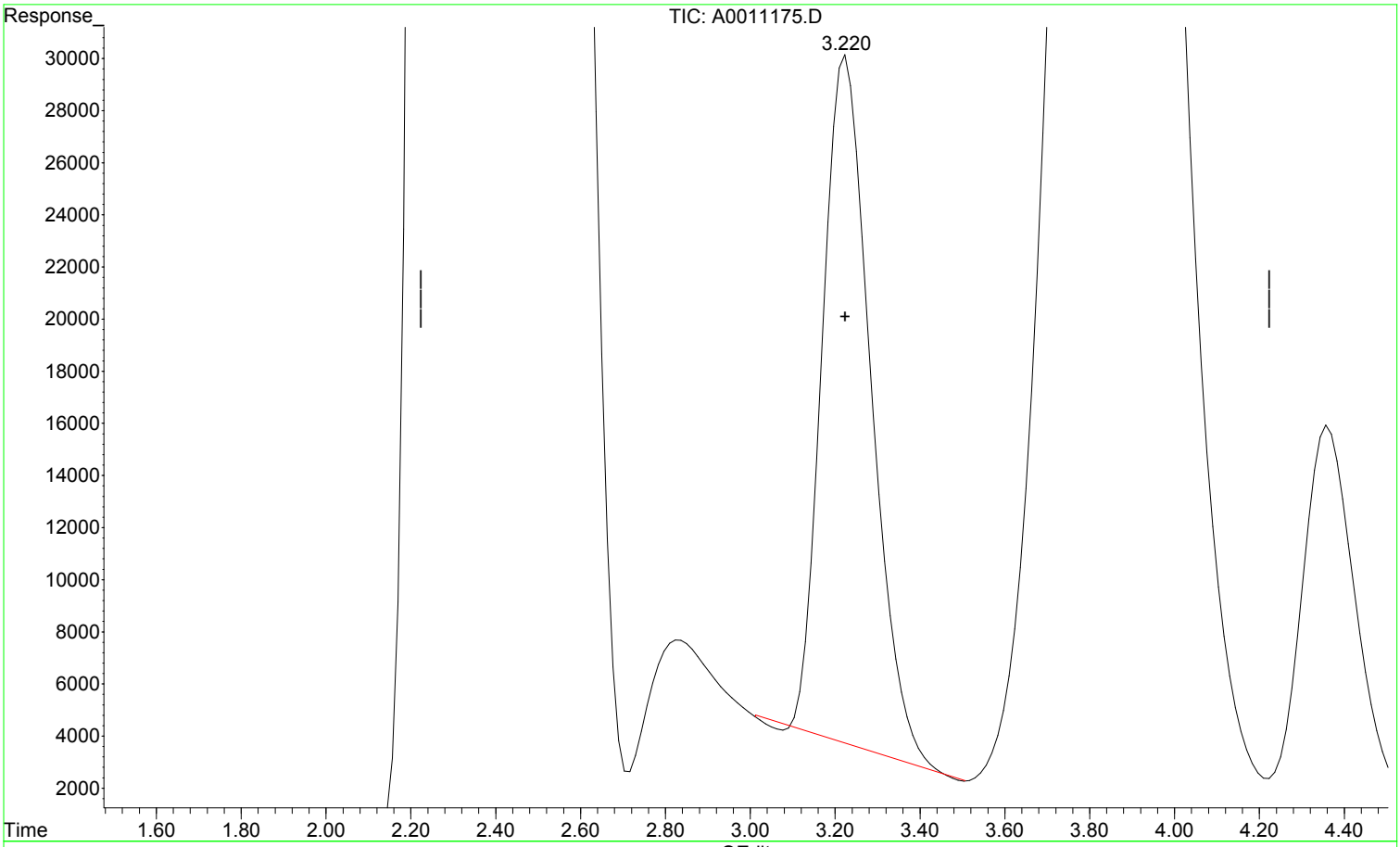
1st 02/23/24
2nd 02/27/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011175.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 02:49:53
Operator : KProcopio
Sample : R2401280-018DMS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:15:22 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:15:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)

3.227min 21.136 ppm

response 2105226

Manual Integration:

Before

02/23/24

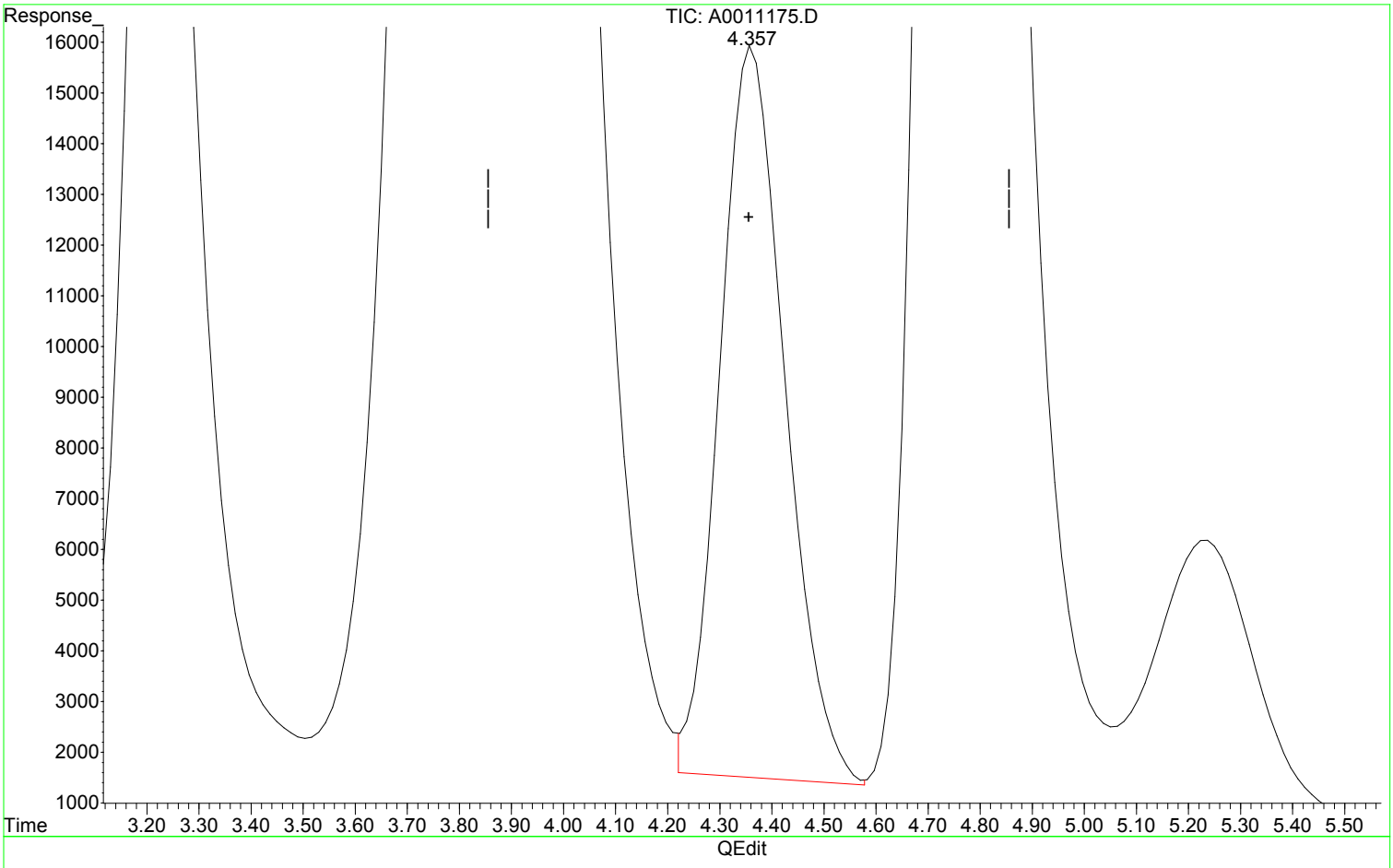
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011175.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 02:49:53
Operator : KProcopio
Sample : R2401280-018DMS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:15:22 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:15:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)

4.357min 18.808 ppm m

response 1258119

Manual Integration:

After

Poor integration.

02/23/24

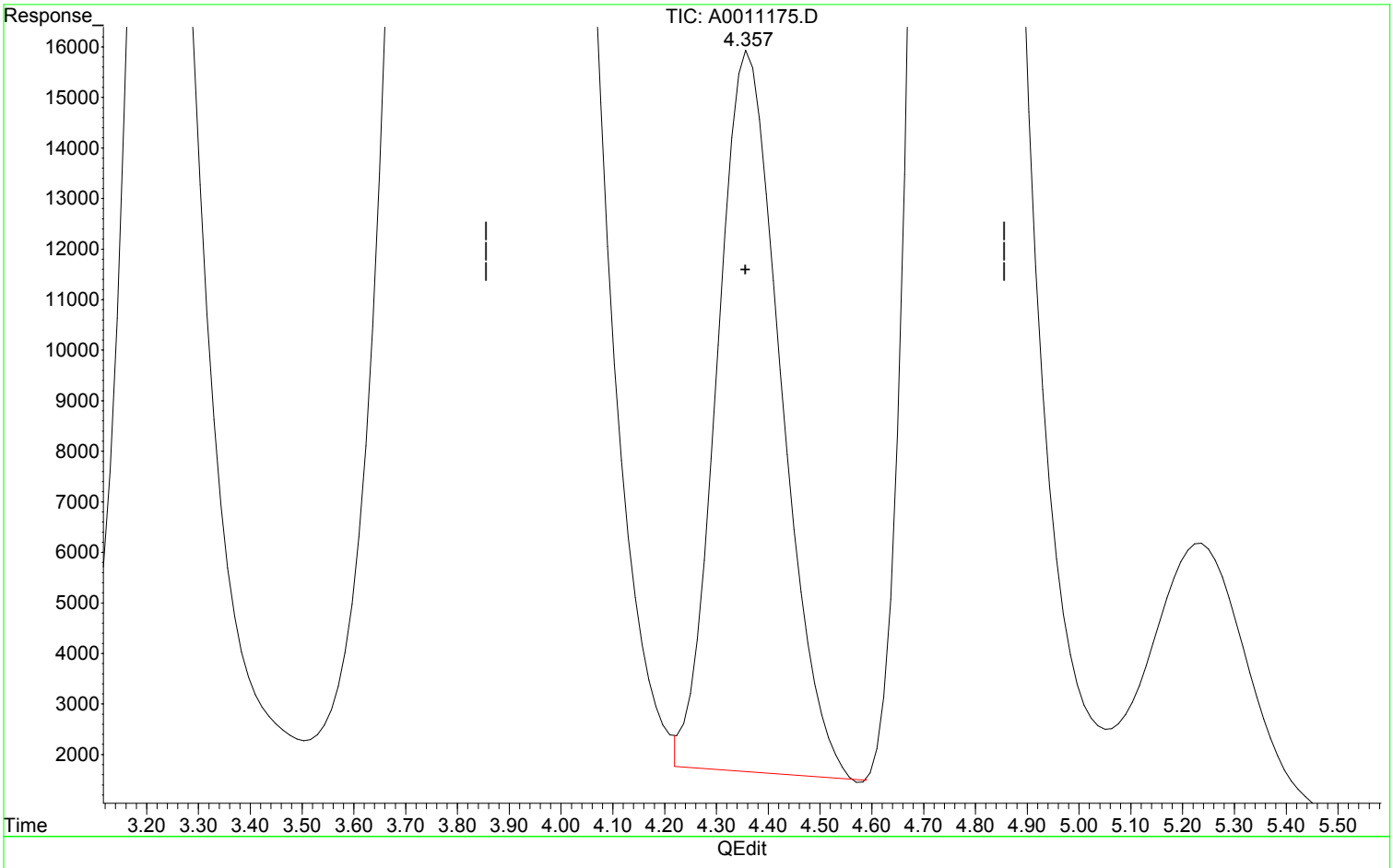
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011175.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 02:49:53
Operator : KProcopio
Sample : R2401280-018DMS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:15:22 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:15:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)

4.364min 18.374 ppm

response 1229105

Manual Integration:

Before

02/23/24

(+) = Expected Retention Time

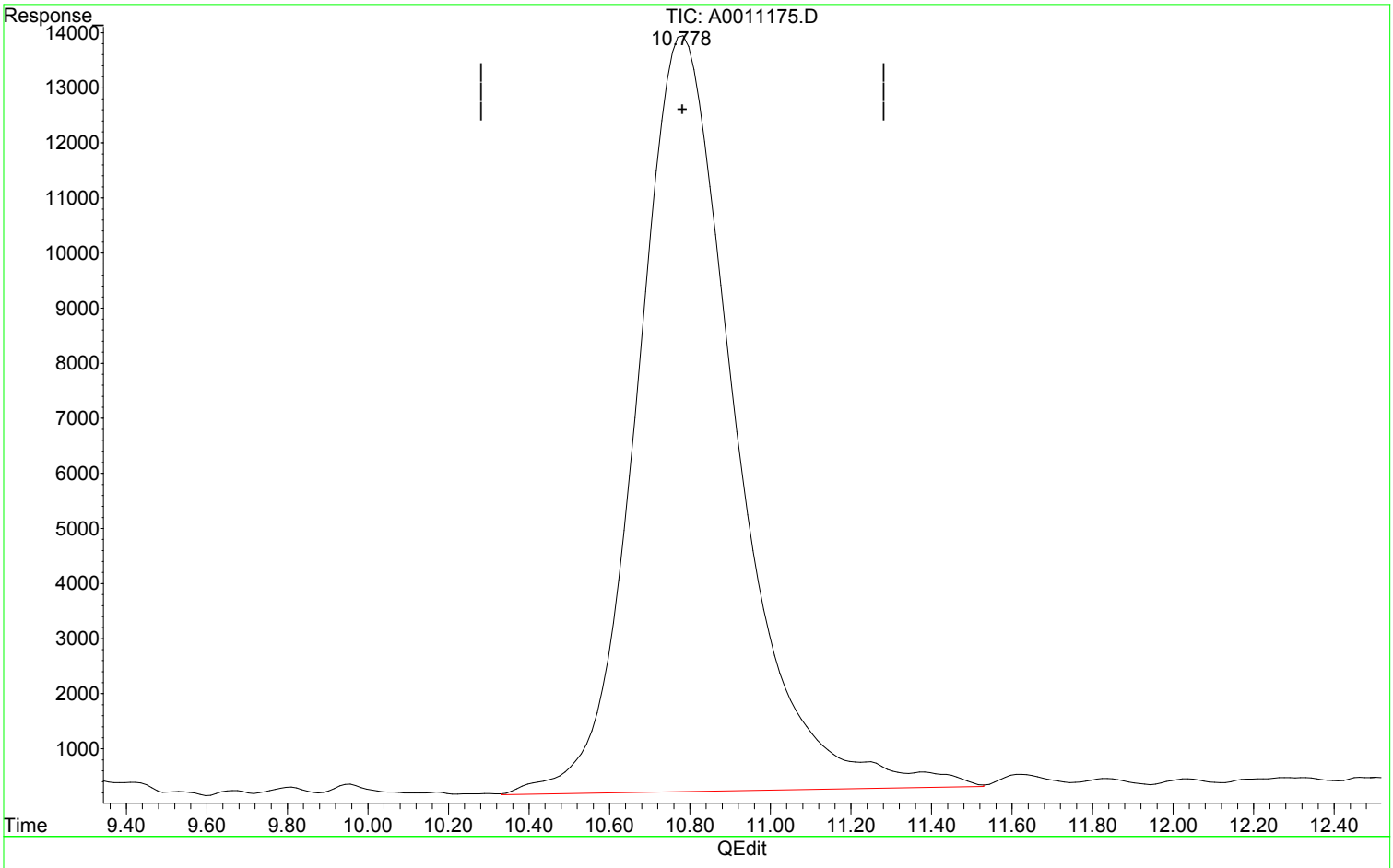
1st 02/23/24
2nd 02/27/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011175.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 02:49:53
Operator : KProcopio
Sample : R2401280-018DMS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:15:22 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:15:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.778min 37.910 ppm m

response 2348058

Manual Integration:

After

Poor integration.

02/23/24

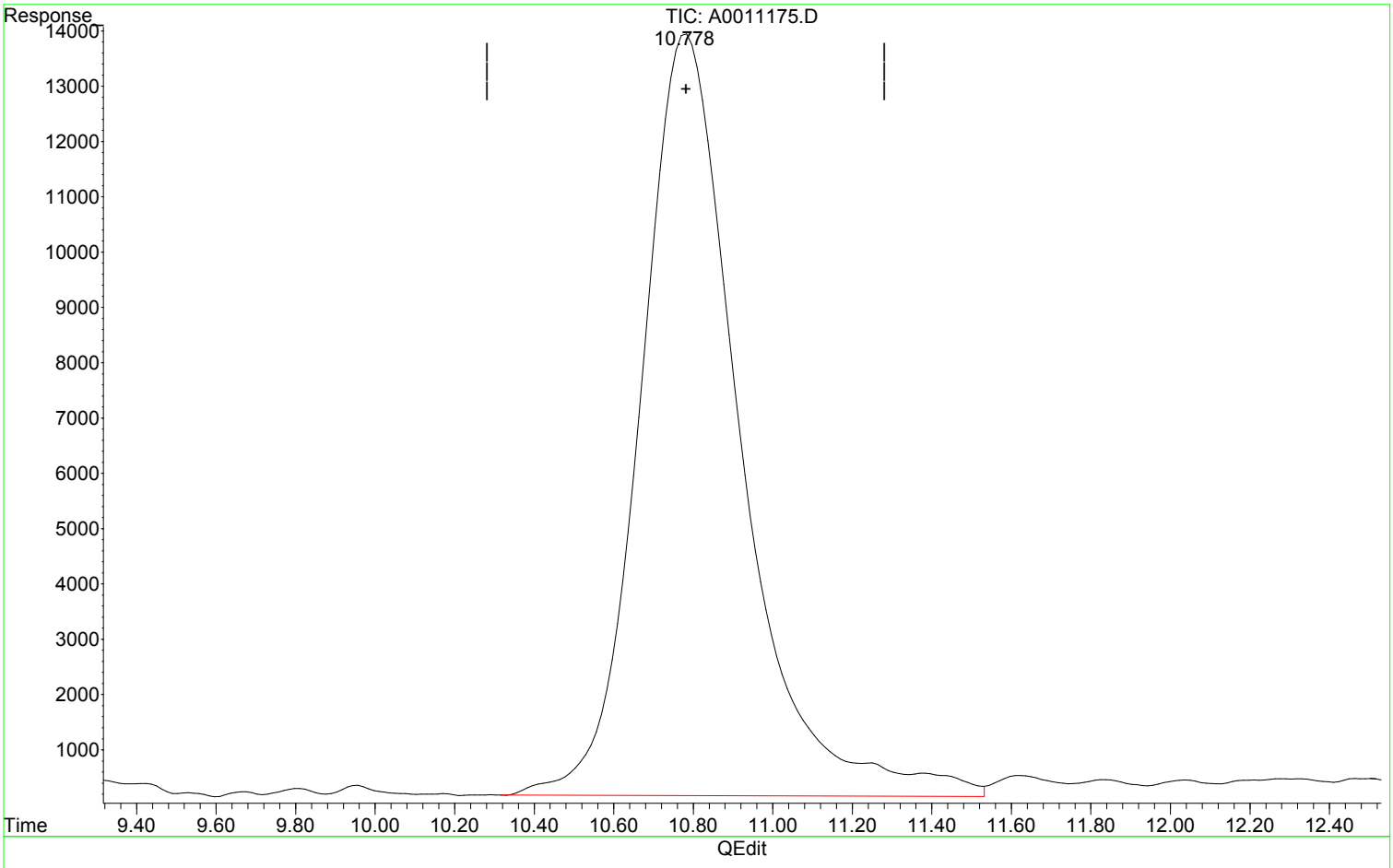
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011175.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 02:49:53
Operator : KProcopio
Sample : R2401280-018DMS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:15:22 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:15:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.784min 38.725 ppm

response 2398589

Manual Integration:

Before

02/23/24

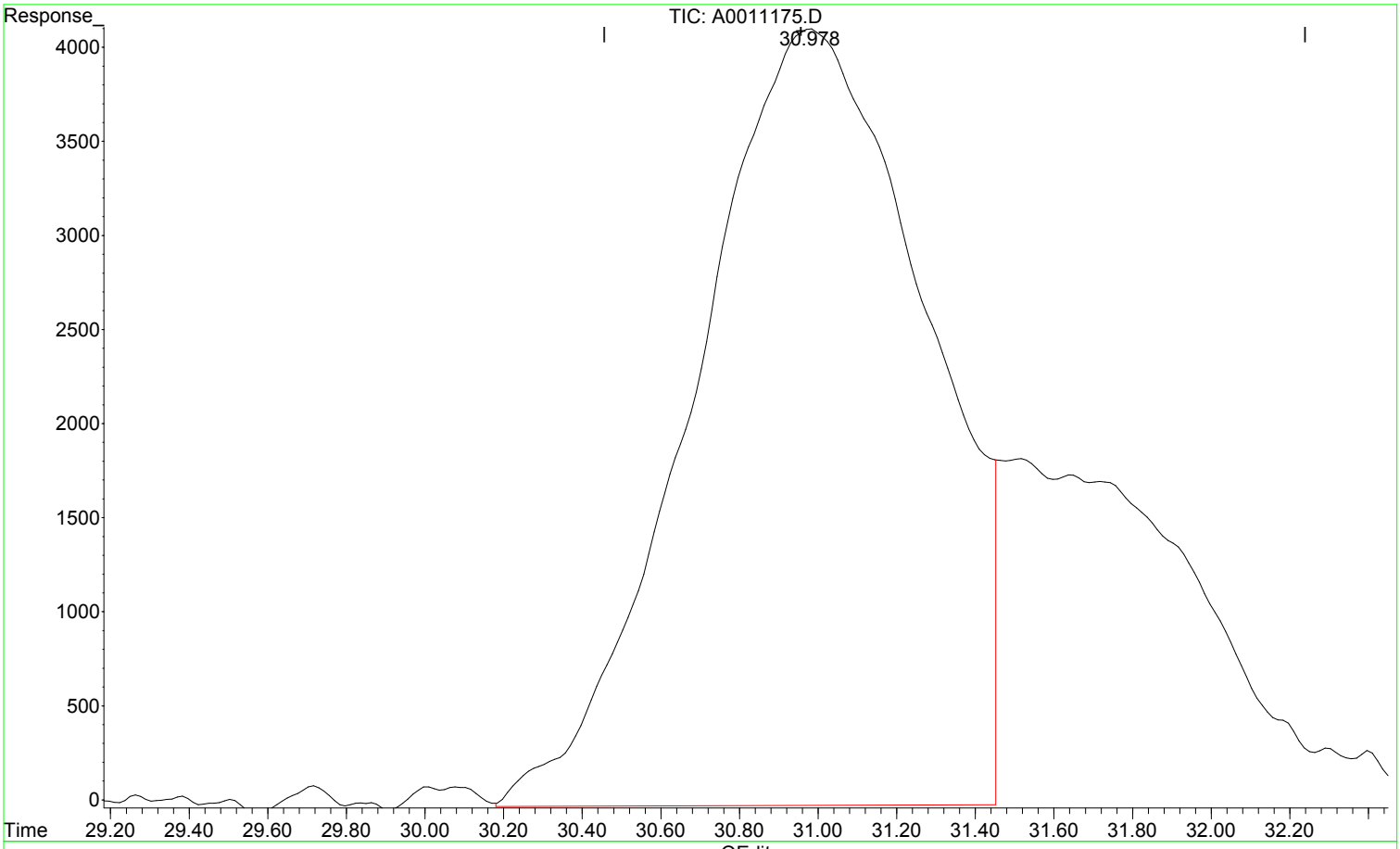
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011175.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 02:49:53
Operator : KProcopio
Sample : R2401280-018DMS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:15:22 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:15:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

30.978min 29.829 ppm m

response 1706101

Manual Integration:

After

Poor integration.

02/26/24

(+) = Expected Retention Time

1st 02/23/24
2nd 02/27/24

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011175.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 02:49:53
Operator : KProcopio
Sample : R2401280-018DMS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:15:22 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:15:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.220	2303392	23.126	ppm	m
2) T	Pyruvic acid	3.862	15631648	24.567	ppm	
3) T	Lactic Acid	4.357	1258119	18.808	ppm	m
4) T	Acetic Acid	4.772	6671585	105.472	ppm	
5) T	Propionic Acid	10.778	2348058	37.910	ppm	m
6) T	Butyric Acid	30.978	1706101	29.829	ppm	m

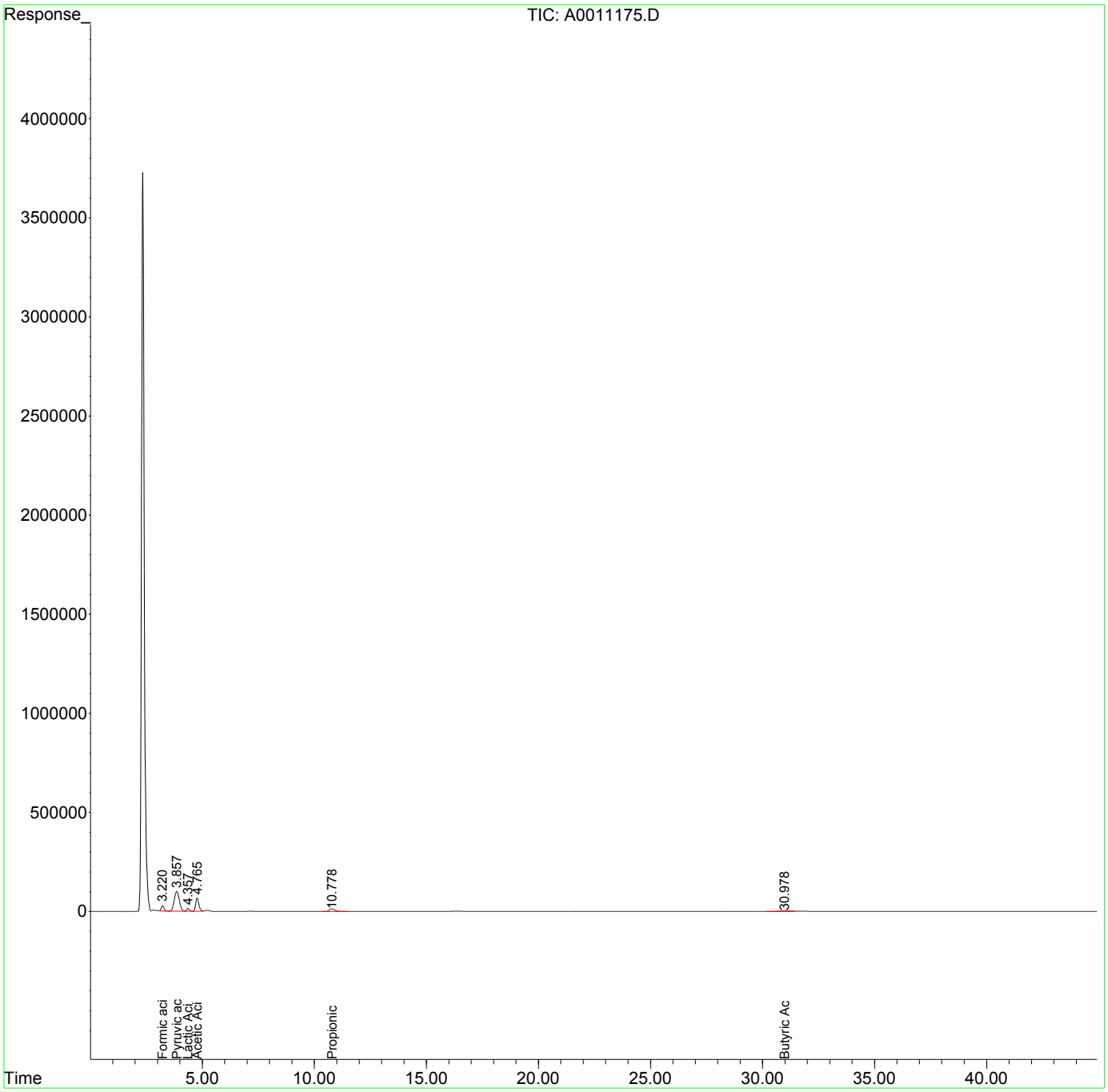
(f)=RT Delta > 1/2 Window (m)=manual int.

1st 02/23/24
2nd 02/27/24

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011175.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 02:49:53
Operator : KProcopio
Sample : R2401280-018DMS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:15:22 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:15:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

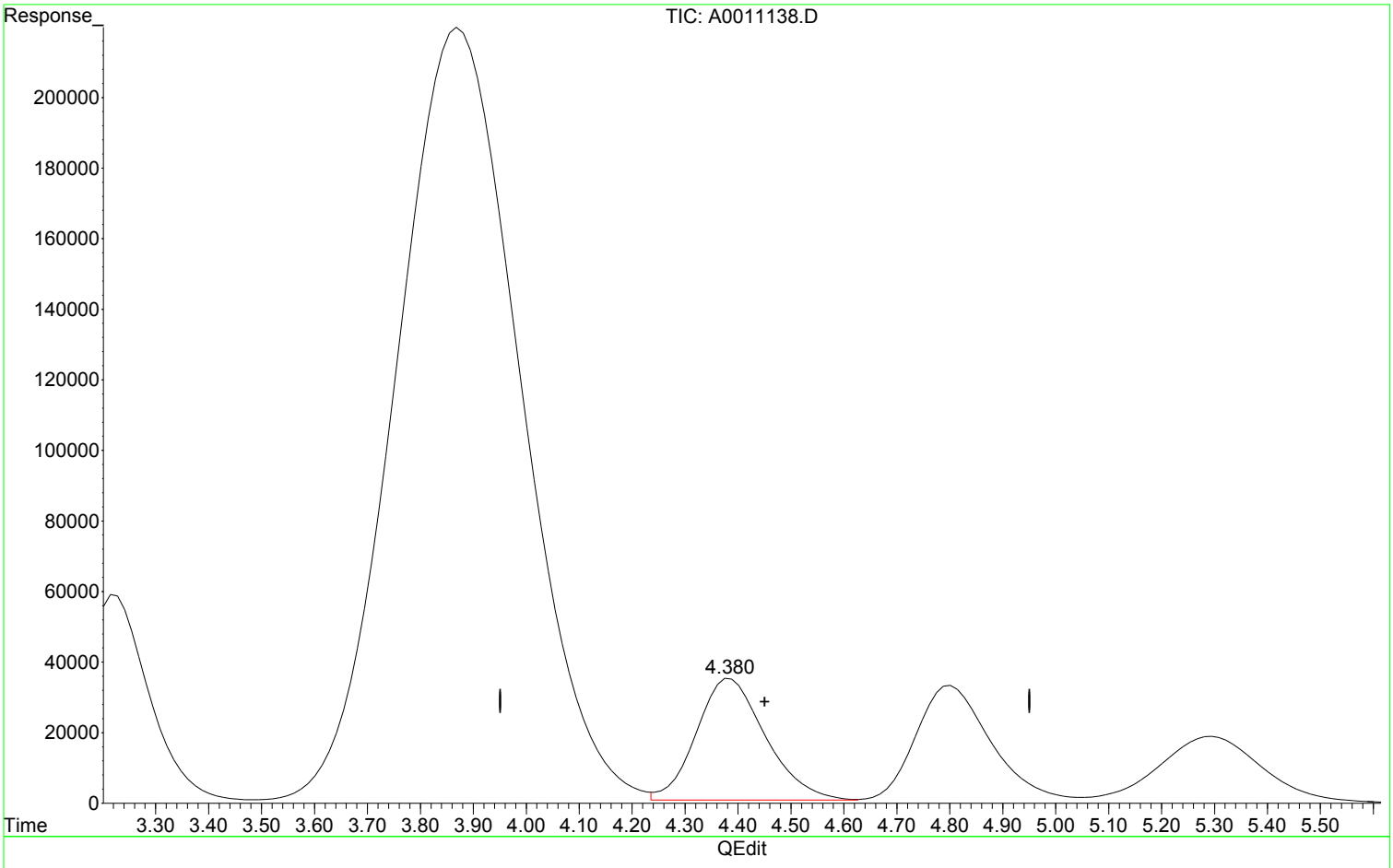


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011138.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 12:54:03
Operator : EDeGray
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:06:08 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:02:52 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)

4.380min 46.916 ppm m

response 3138386

Manual Integration:

After

Peak not found.

02/21/24

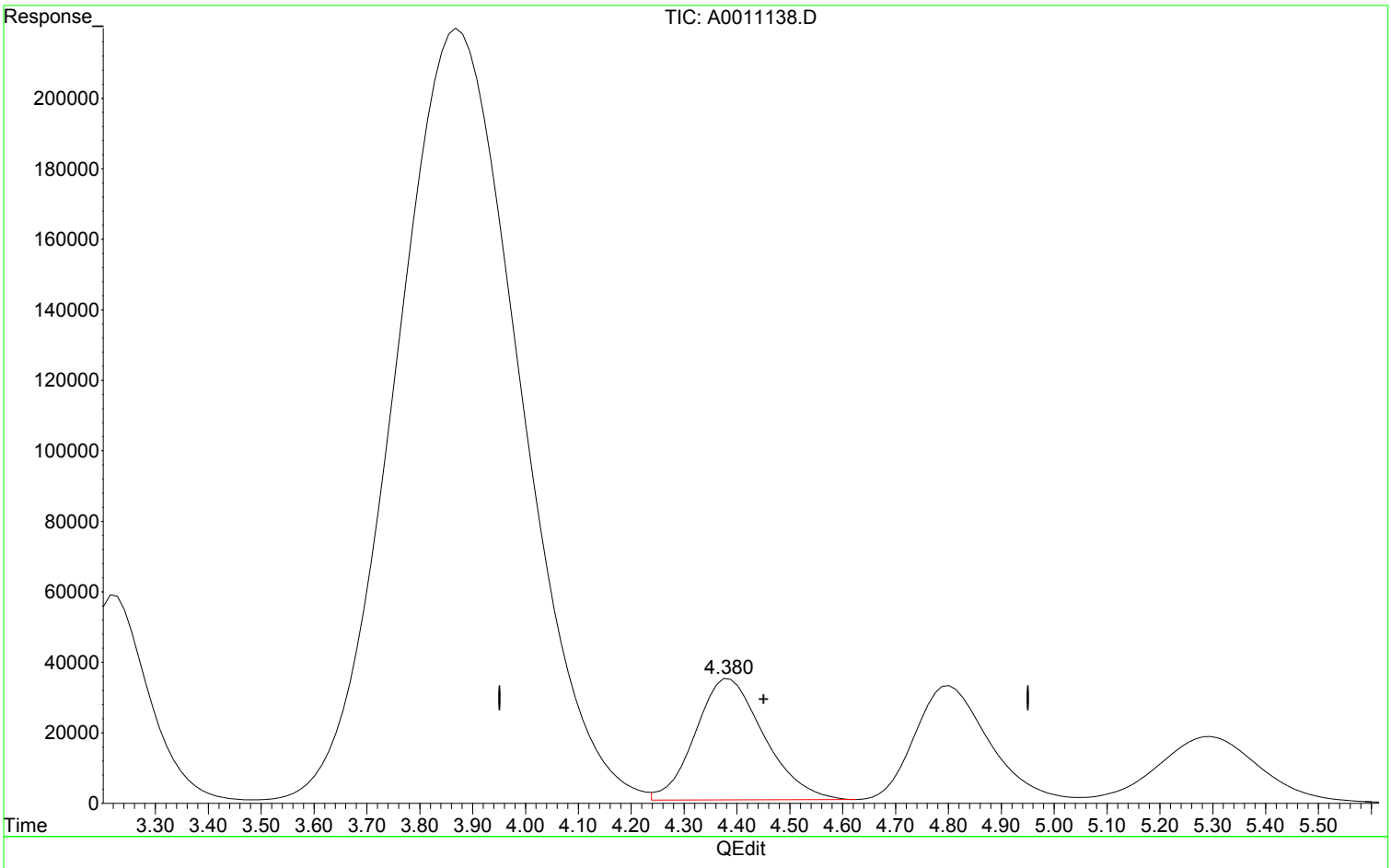
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011138.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 12:54:03
Operator : EDeGray
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:06:08 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:02:52 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)

4.387min 46.588 ppm

response 3116503

Manual Integration:

Before

02/21/24

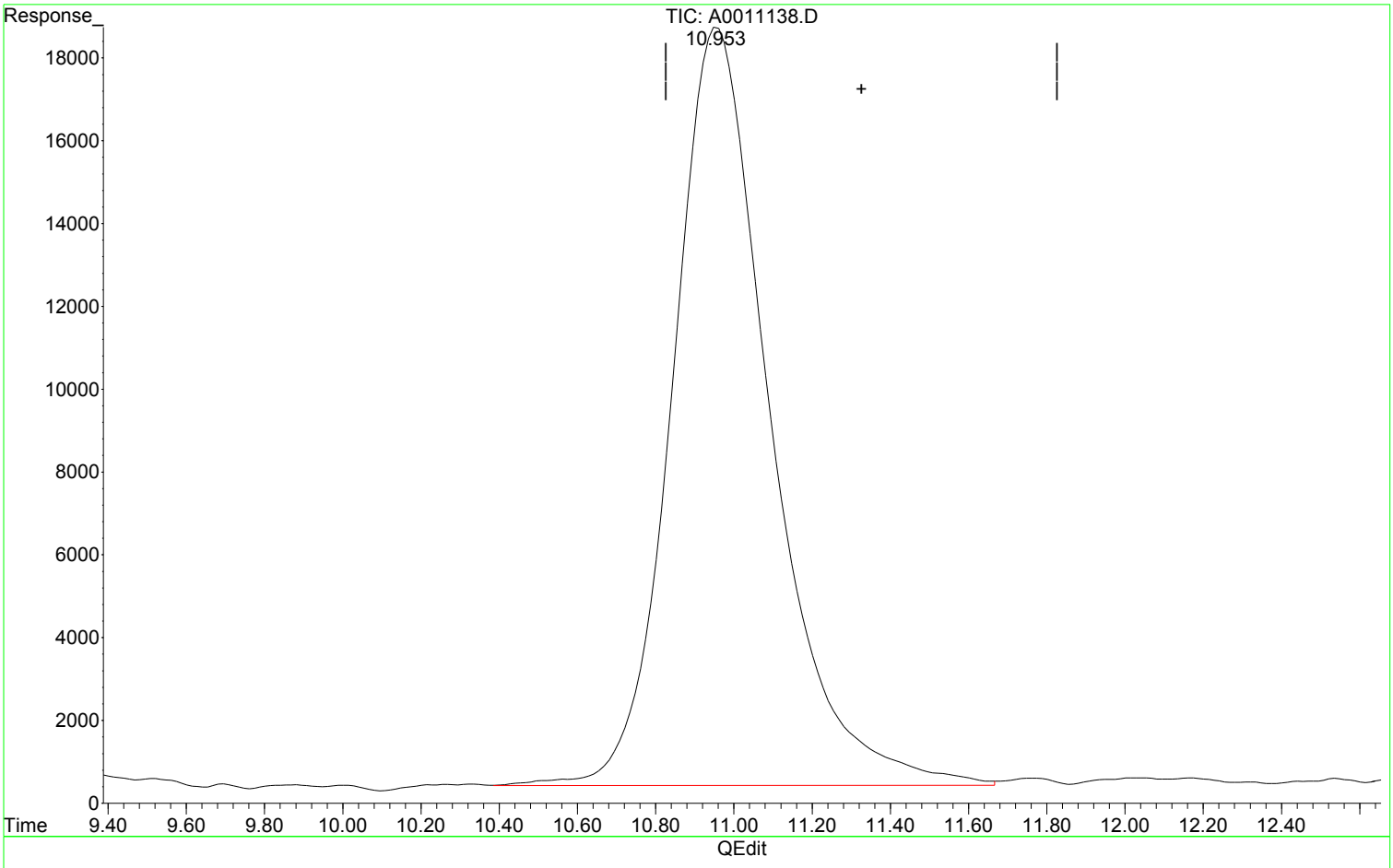
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011138.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 12:54:03
Operator : EDeGray
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:06:08 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:02:52 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.953min 51.394 ppm m

response 3183272

Manual Integration:

After

Poor integration.

02/21/24

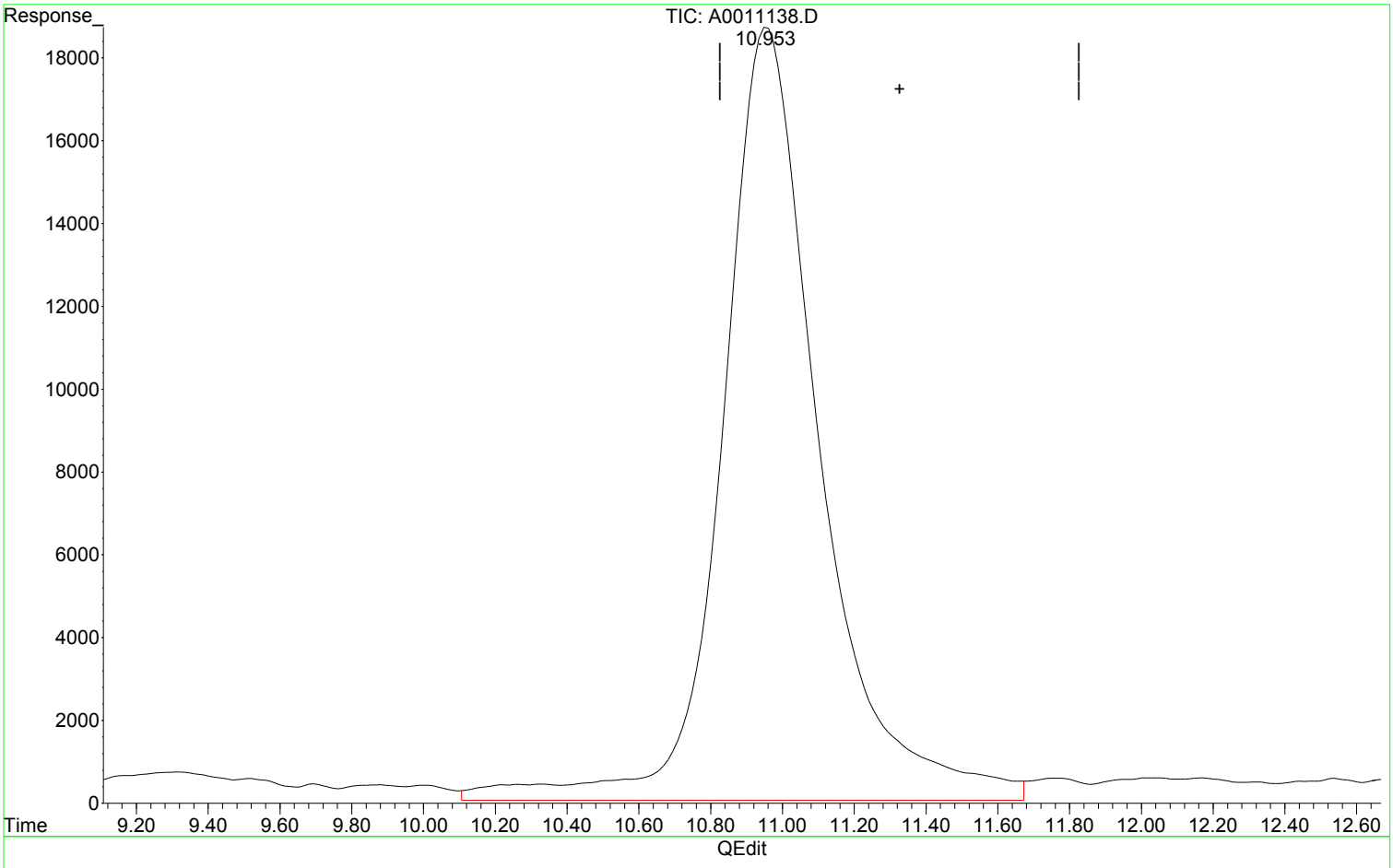
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011138.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 12:54:03
Operator : EDeGray
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:06:08 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:02:52 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.959min 56.823 ppm

response 3519531

Manual Integration:

Before

02/21/24

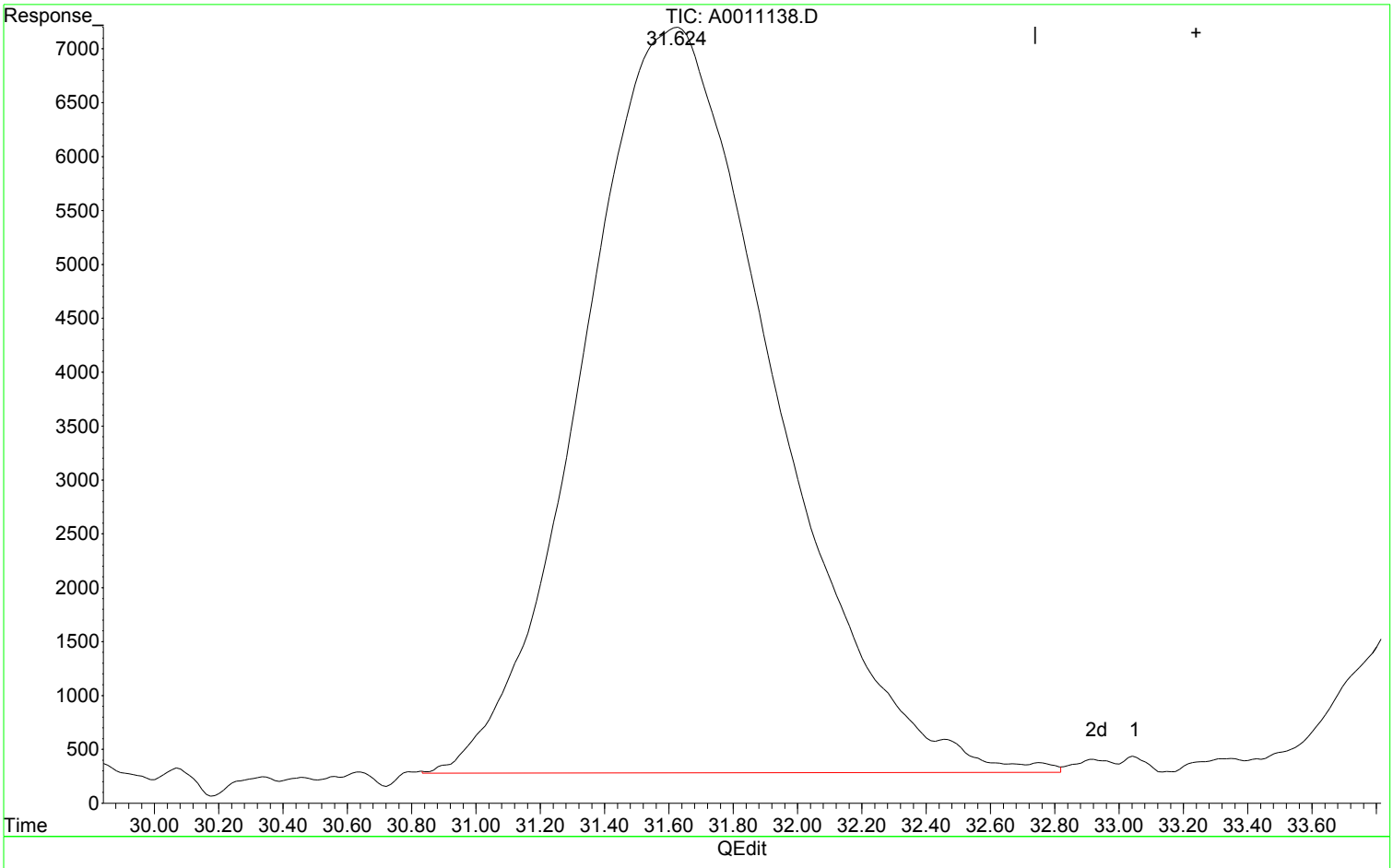
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011138.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 12:54:03
Operator : EDeGray
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:06:08 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:02:52 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

31.624min 49.944 ppm m

response 2856615

Manual Integration:

After

Poor integration.

02/21/24

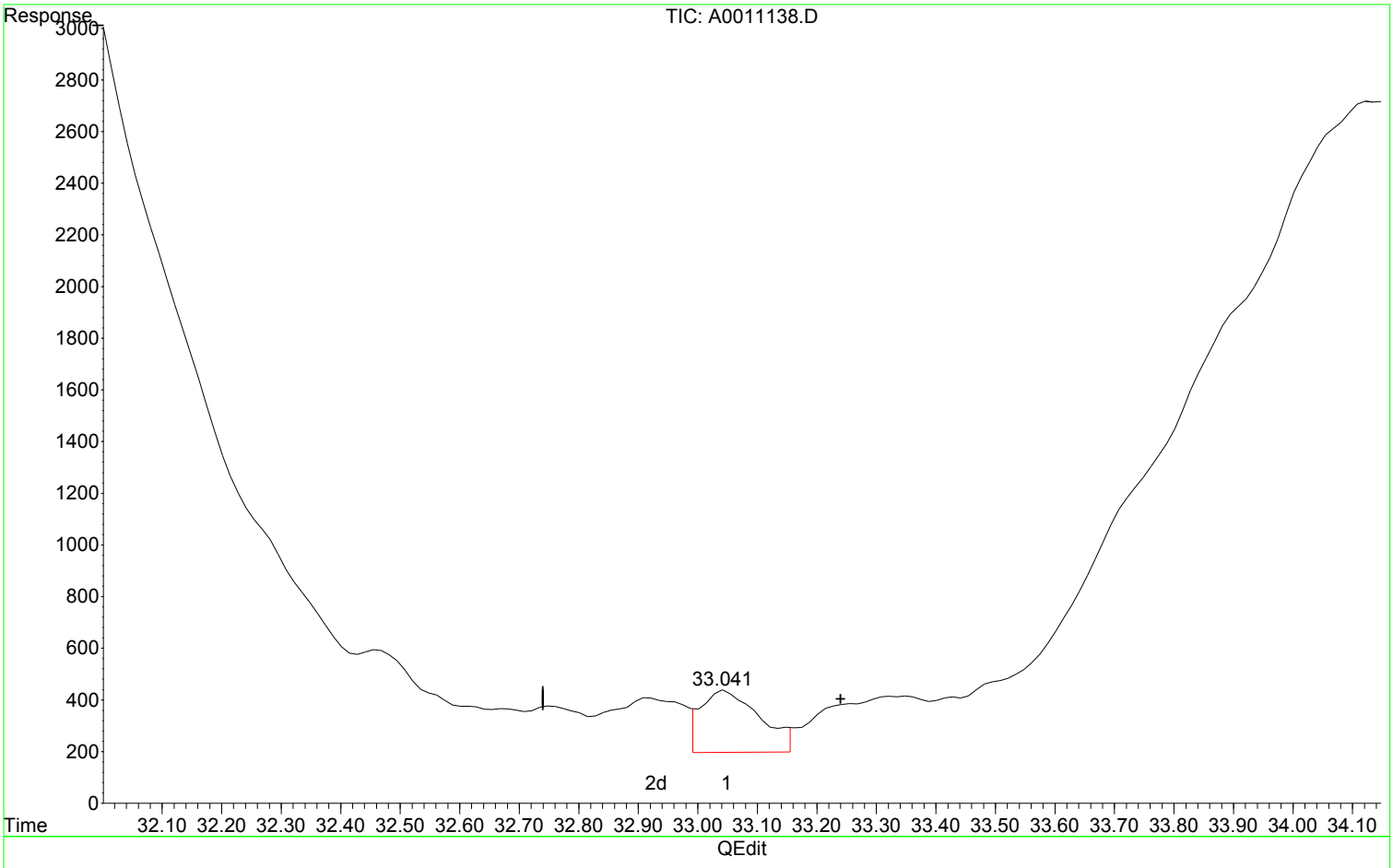
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011138.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 12:54:03
Operator : EDeGray
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:06:08 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:02:52 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

33.049min 0.291 ppm

response 16643

Manual Integration:

Before

02/21/24

(+) = Expected Retention Time

1st EDG 02/21/24
2nd AM 02/21/24

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011138.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 12:54:03
Operator : EDeGray
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:06:08 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:02:52 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 t	Formic acid	99.603	97.908 E3	1.7	103	-0.01
2 T	Pyruvic acid	636.290	710.437 E3	-11.7	114	-0.06
3 T	Lactic Acid	66.894	62.768 E3	6.2	104	-0.07
4 T	Acetic Acid	63.255	60.765 E3	3.9	100	-0.07
5 T	Propionic Acid	61.938	63.665 E3	-2.8	105	-0.37
6 T	Butyric Acid	57.197	57.132 E3	0.1	99	-1.62#

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011138.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 12:54:03
Operator : EDeGray
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:06:08 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:02:52 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.227	4895380	49.149	ppm	
2) T	Pyruvic acid	3.874	35521837	55.826	ppm	
3) T	Lactic Acid	4.380	3138386	46.916	ppm	m
4) T	Acetic Acid	4.804	3038238	48.032	ppm	
5) T	Propionic Acid	10.953f	3183272	51.394	ppm	m
6) T	Butyric Acid	31.624f	2856615	49.944	ppm	m

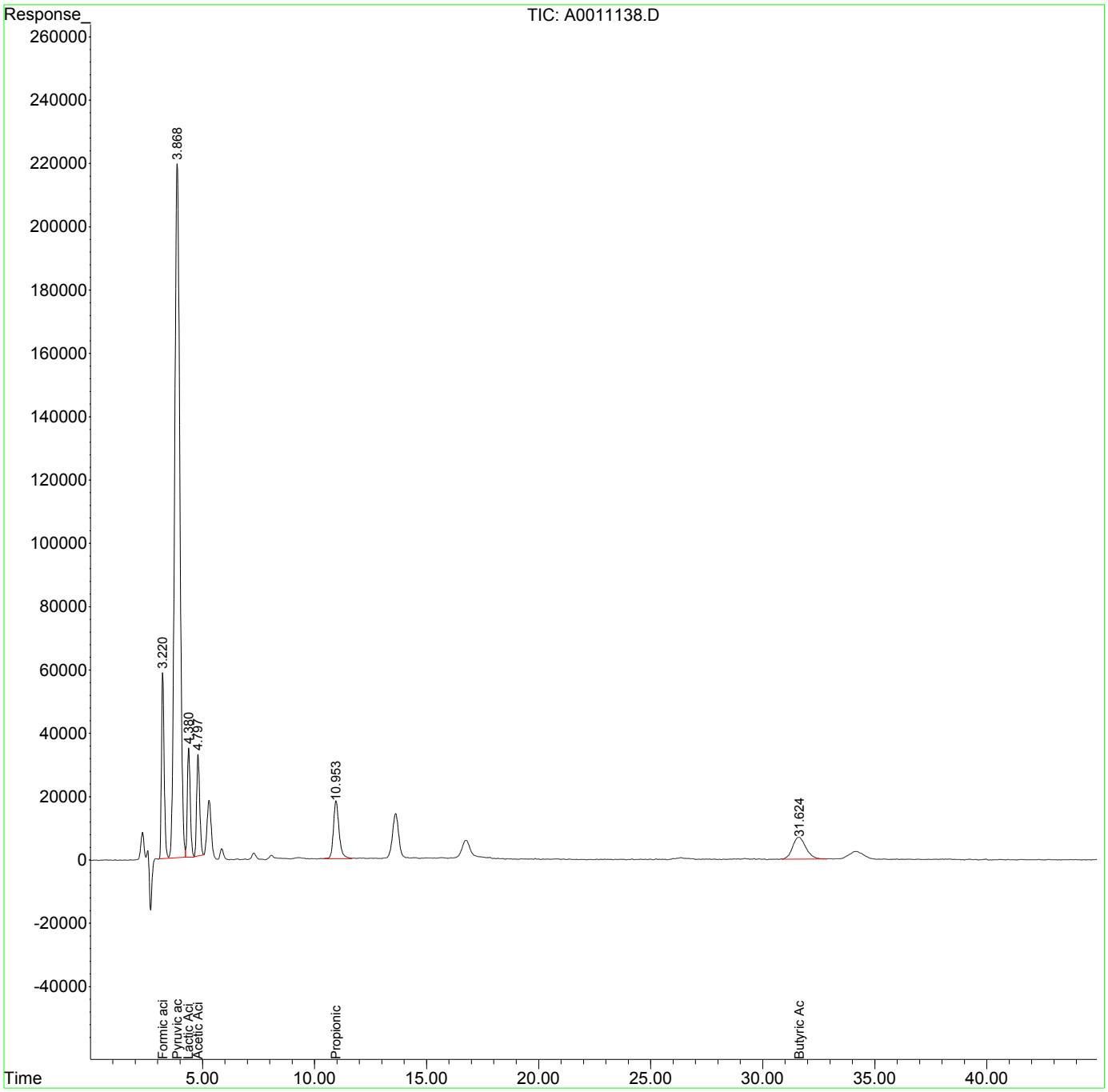
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011138.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 12:54:03
Operator : EDeGray
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:06:08 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:02:52 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

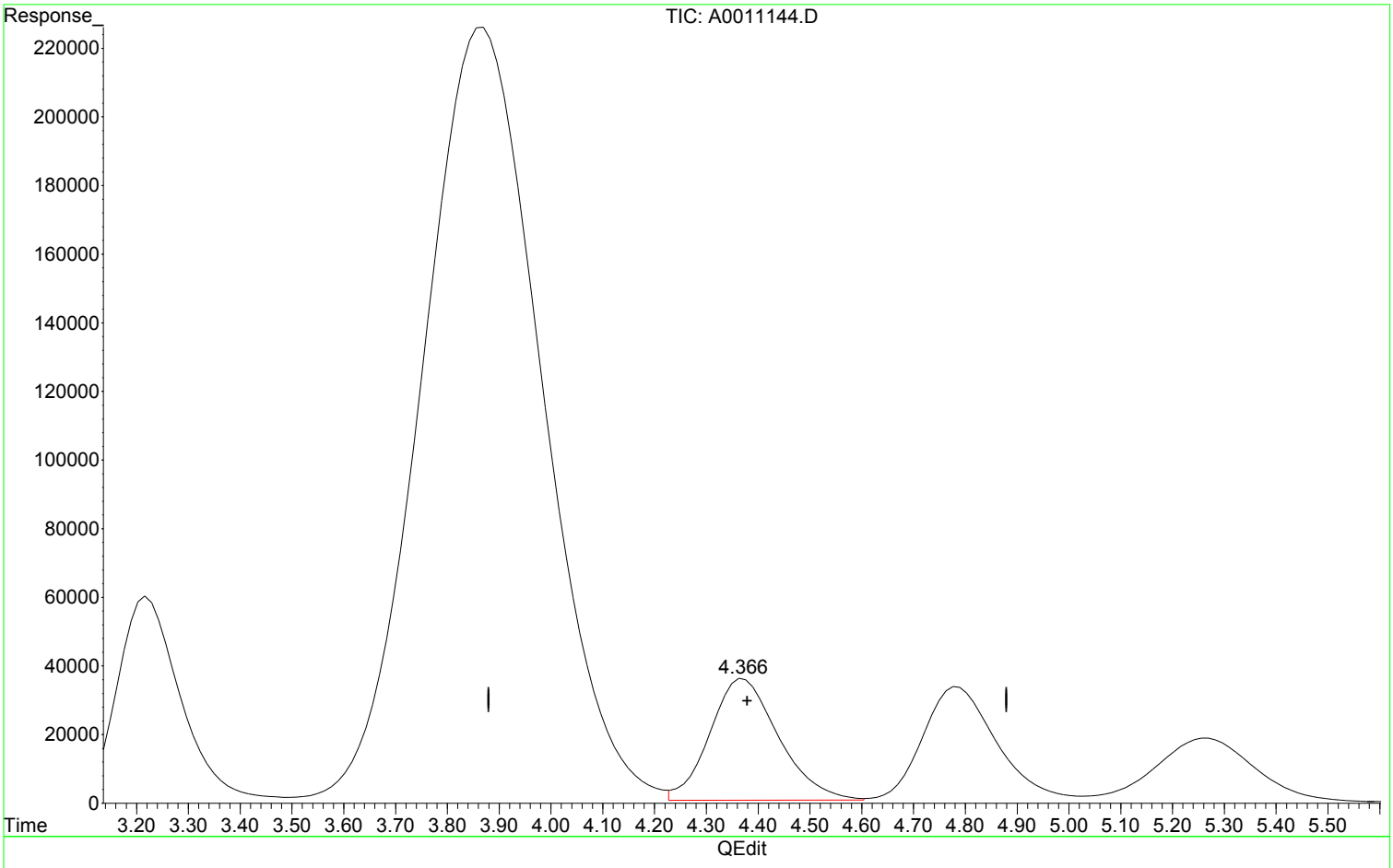


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011144.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 17:37:06
Operator : EDeGray
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:37 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)

4.366min 48.854 ppm m

response 3268021

Manual Integration:

After

Poor integration.

02/21/24

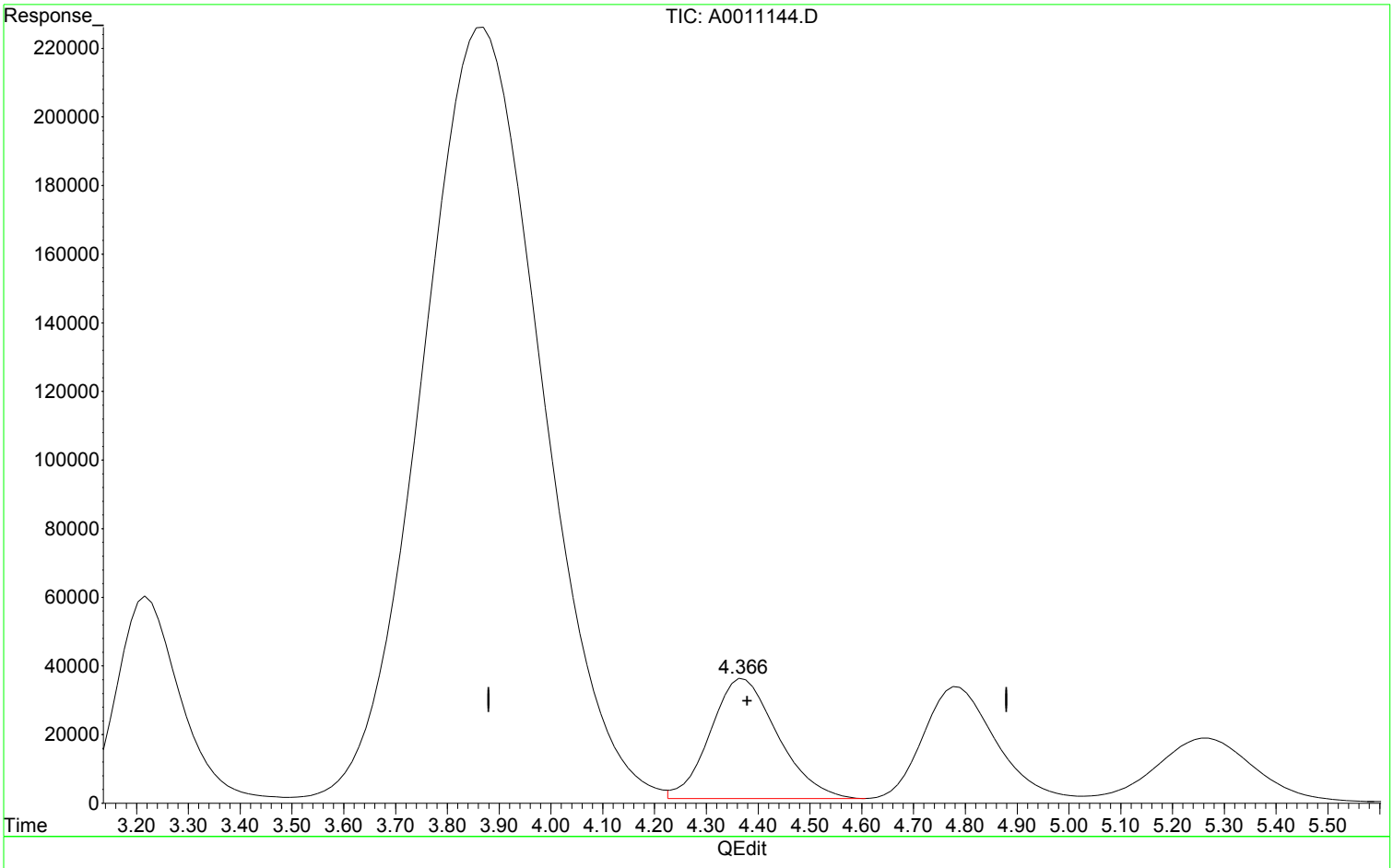
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011144.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 17:37:06
Operator : EDeGray
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:37 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)

4.373min 47.306 ppm

response 3164509

Manual Integration:

Before

02/21/24

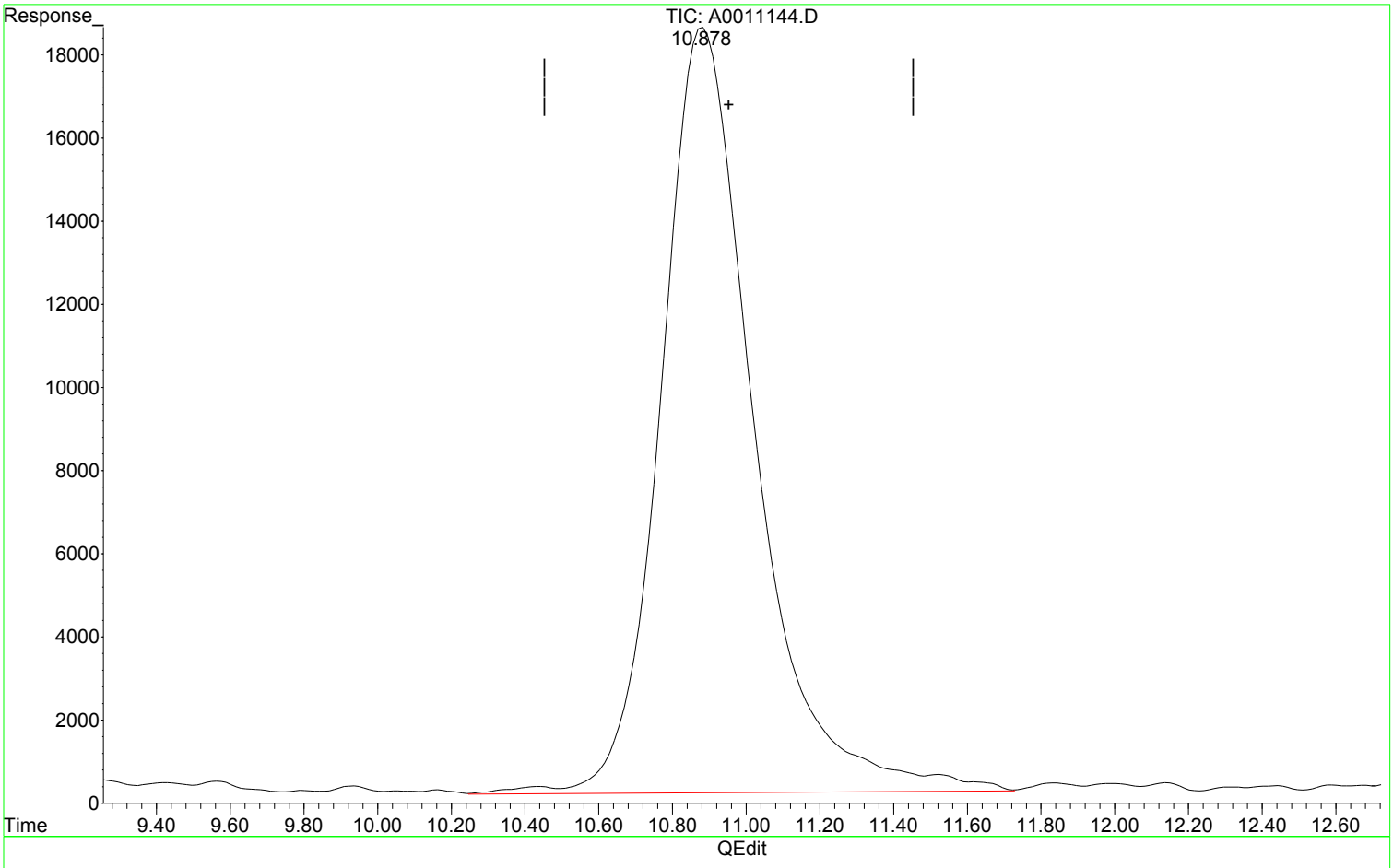
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011144.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 17:37:06
Operator : EDeGray
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:37 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.878min 52.366 ppm m

response 3243468

Manual Integration:

After

Poor integration.

02/21/24

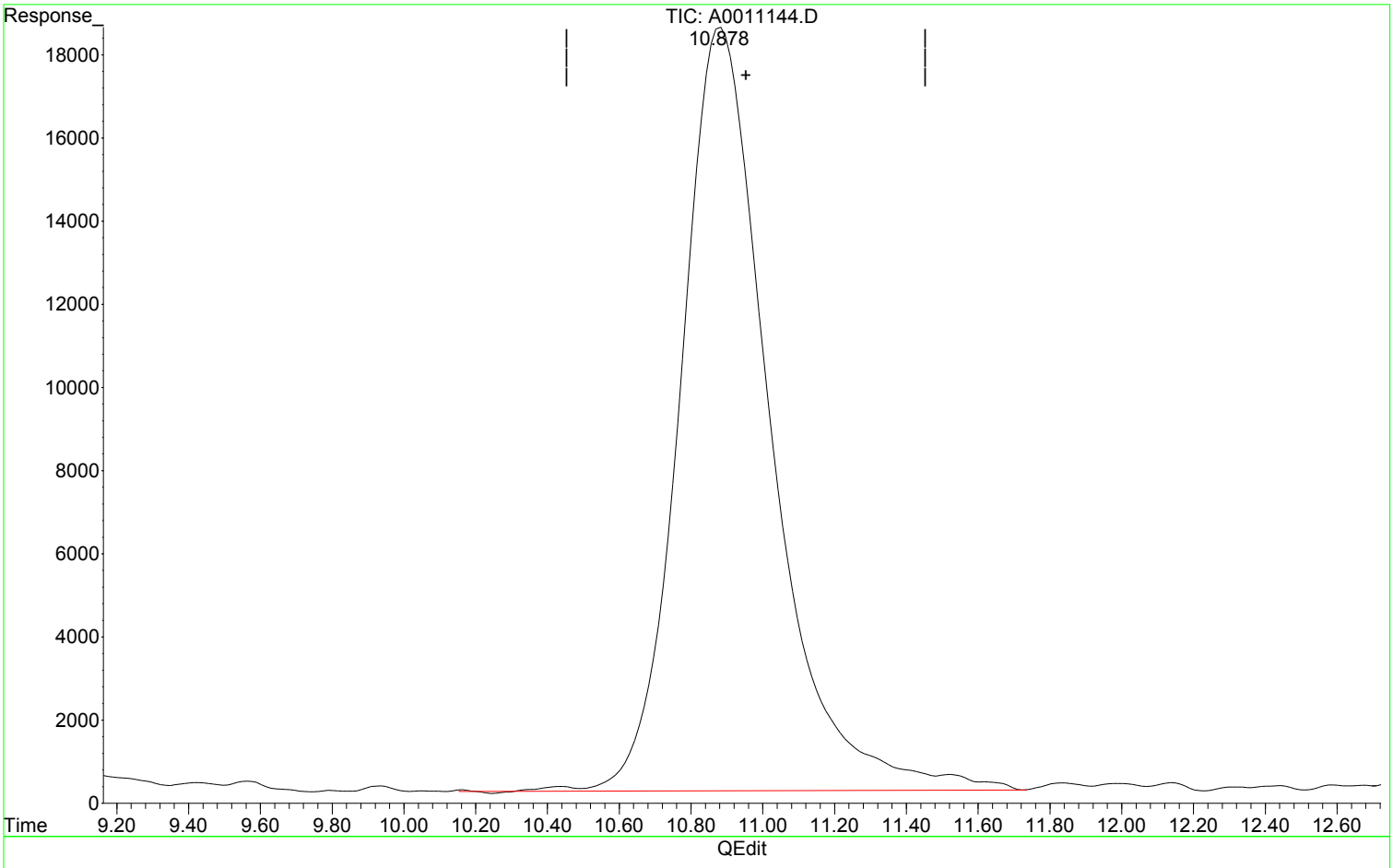
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011144.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 17:37:06
Operator : EDeGray
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:37 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.885min 51.748 ppm

response 3205211

Manual Integration:

Before

02/21/24

(+) = Expected Retention Time

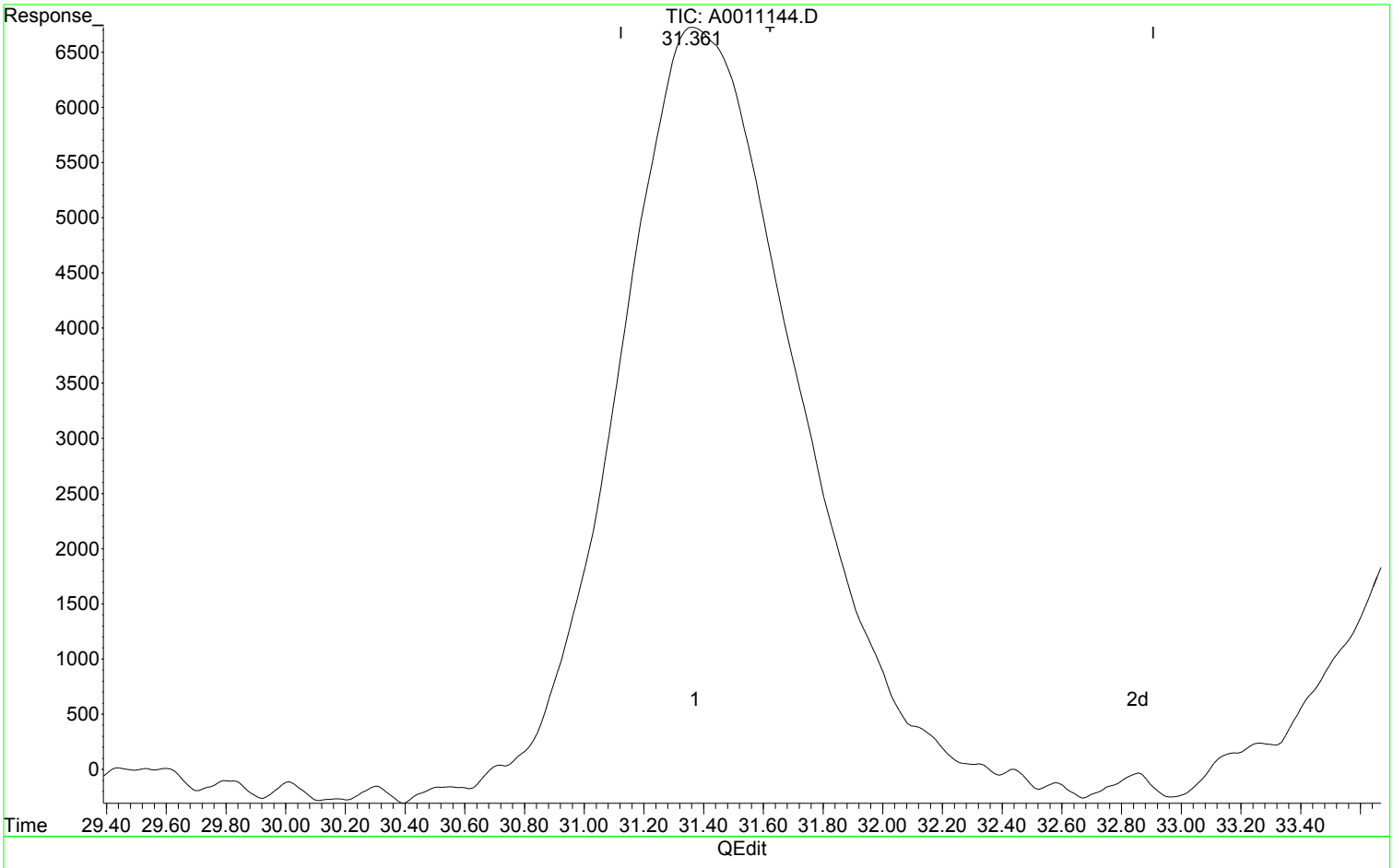
1st EDG 02/21/24
2nd AM 02/21/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011144.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 17:37:06
Operator : EDeGray
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:37 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

31.361min 53.125 ppm m

response 3038590

Manual Integration:

After

Poor integration.

02/21/24

(+) = Expected Retention Time

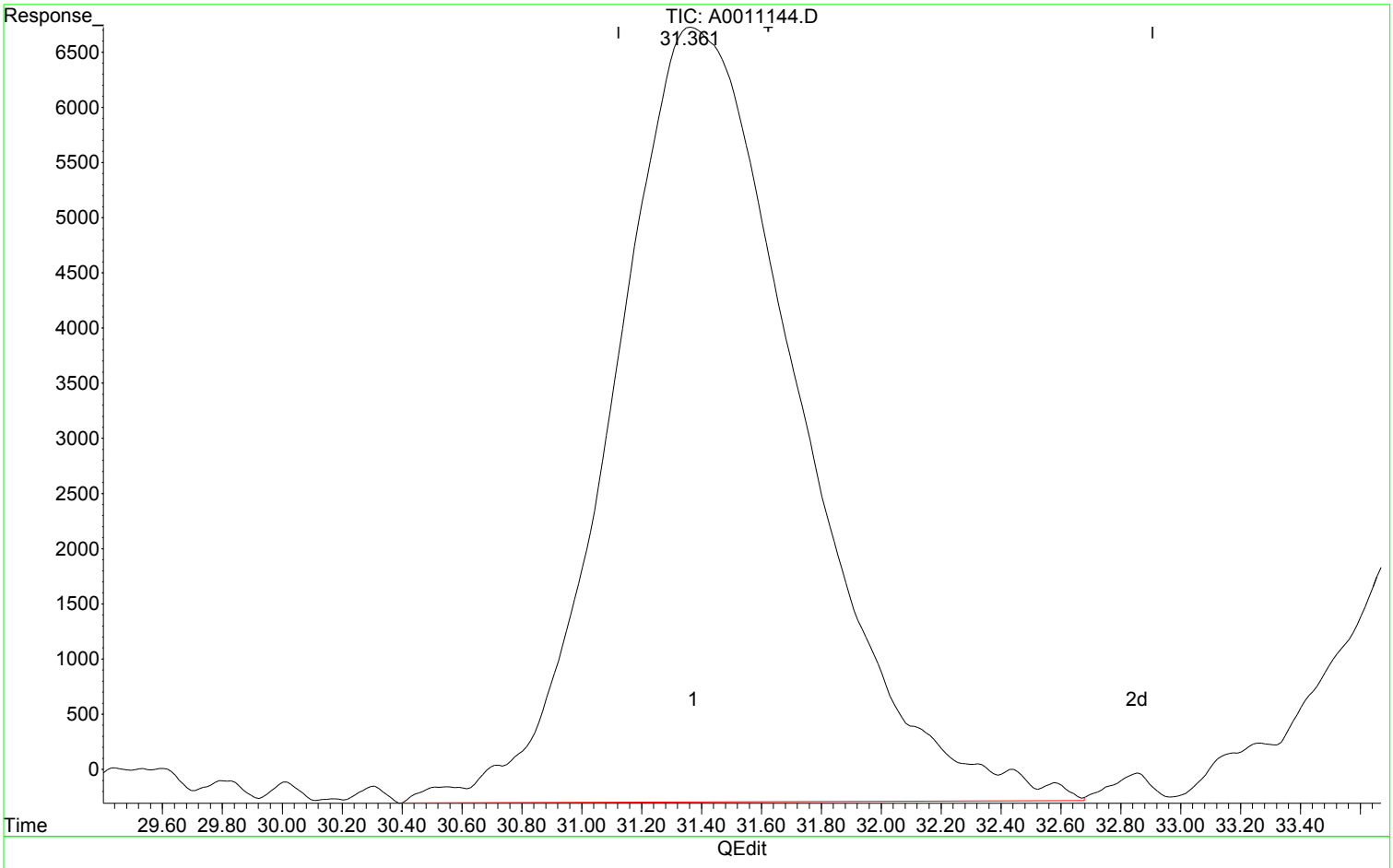
1st EDG 02/21/24
2nd AM 02/21/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011144.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 17:37:06
Operator : EDeGray
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:37 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

31.372min 53.043 ppm

response 3033867

Manual Integration:

Before

02/21/24

(+) = Expected Retention Time

1st EDG 02/21/24
2nd AM 02/21/24

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011144.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 17:37:06
Operator : EDeGray
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:37 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 t	Formic acid	99.603	97.585 E3	2.0	103	0.00
2 T	Pyruvic acid	636.290	714.589 E3	-12.3	114	0.00
3 T	Lactic Acid	66.894	65.360 E3	2.3	108	-0.01
4 T	Acetic Acid	63.255	60.882 E3	3.8	100	-0.02
5 T	Propionic Acid	61.938	64.869 E3	-4.7	107	-0.08
6 T	Butyric Acid	57.197	60.772 E3	-6.3	105	-0.26

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011144.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 17:37:06
Operator : EDeGray
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:37 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.223	4879260	48.987	ppm	
2) T	Pyruvic acid	3.869	35729442	56.153	ppm	
3) T	Lactic Acid	4.366	3268021	48.854	ppm	m
4) T	Acetic Acid	4.787	3044089	48.124	ppm	
5) T	Propionic Acid	10.878	3243468	52.366	ppm	m
6) T	Butyric Acid	31.361	3038590	53.125	ppm	m

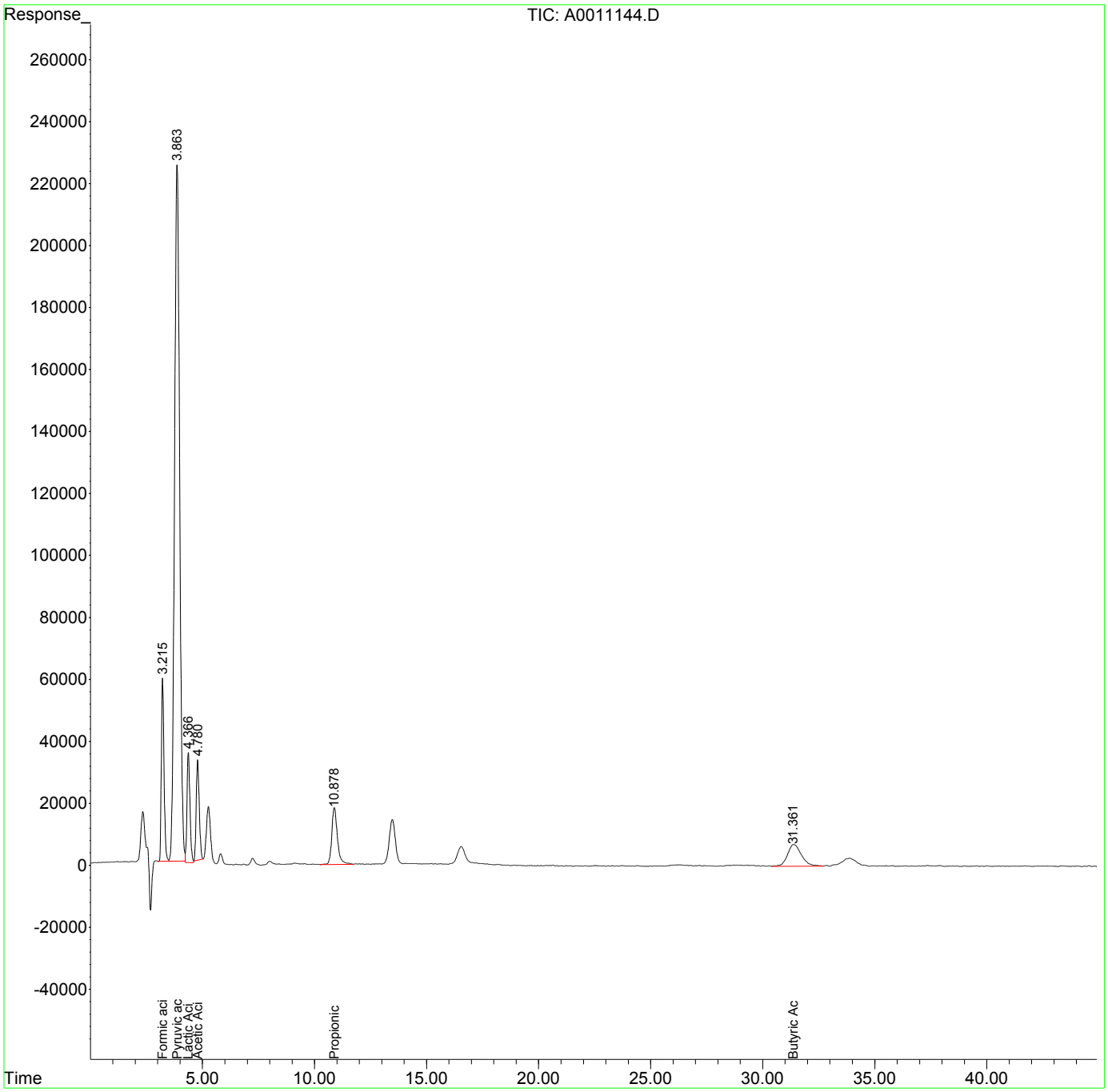
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011144.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 17:37:06
Operator : EDeGray
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:09:37 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:09:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

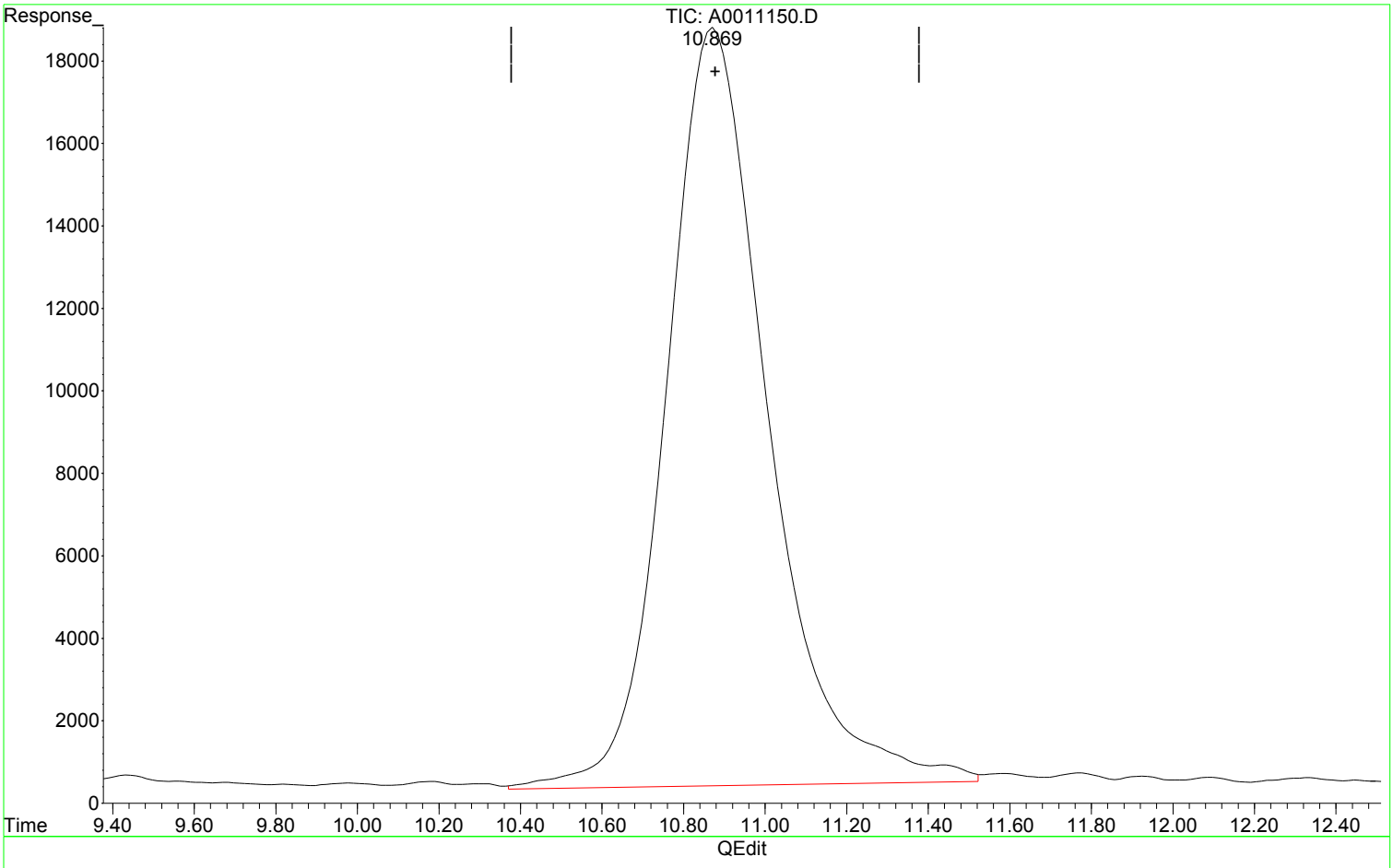


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011150.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 22:20:30
Operator : EDeGray
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:20:52 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:20:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.869min 51.351 ppm m

response 3180618

Manual Integration:

After

Poor integration.

02/21/24

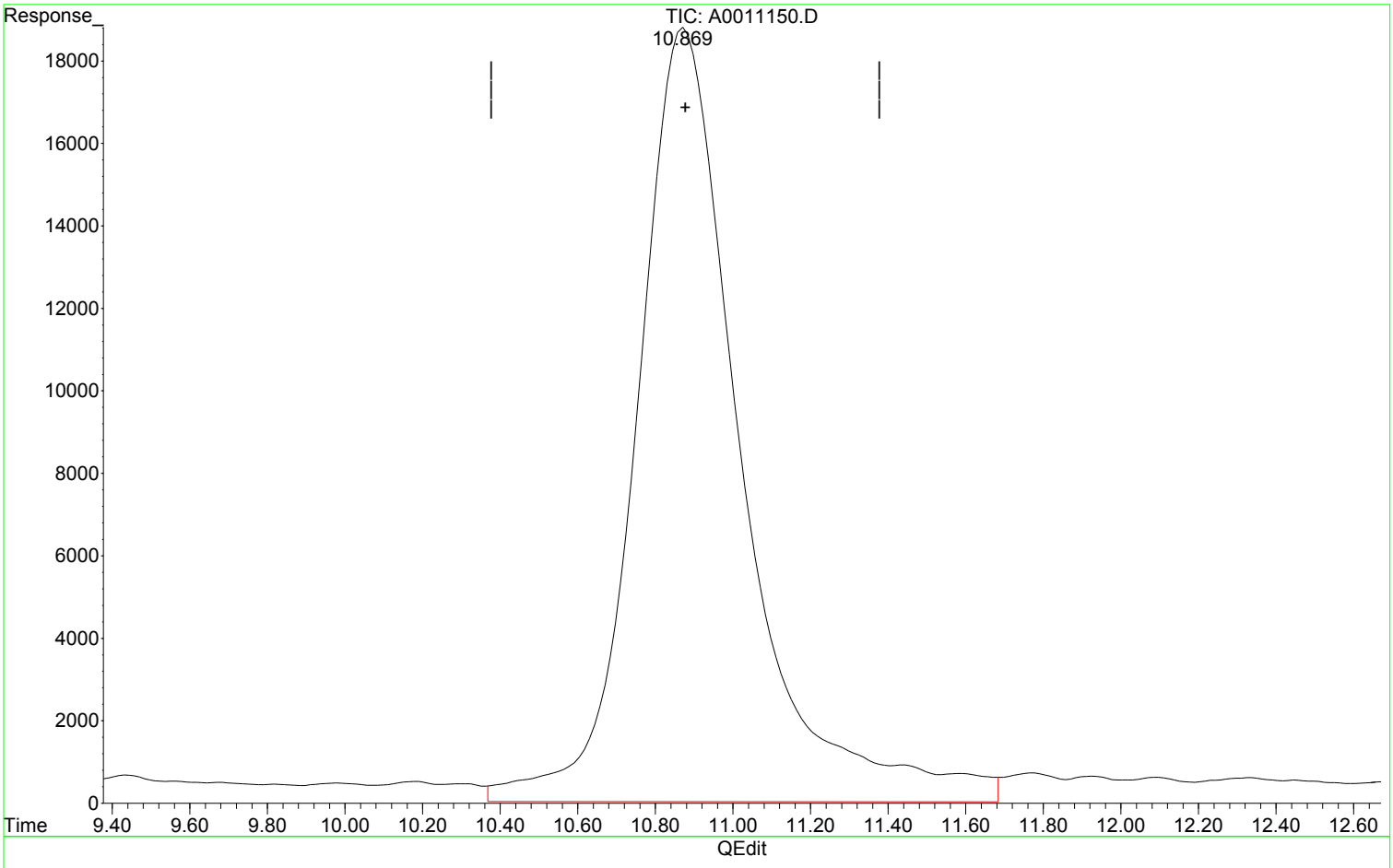
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011150.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 22:20:30
Operator : EDeGray
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:20:52 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:20:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.876min 56.806 ppm

response 3518481

Manual Integration:

Before

02/21/24

(+) = Expected Retention Time

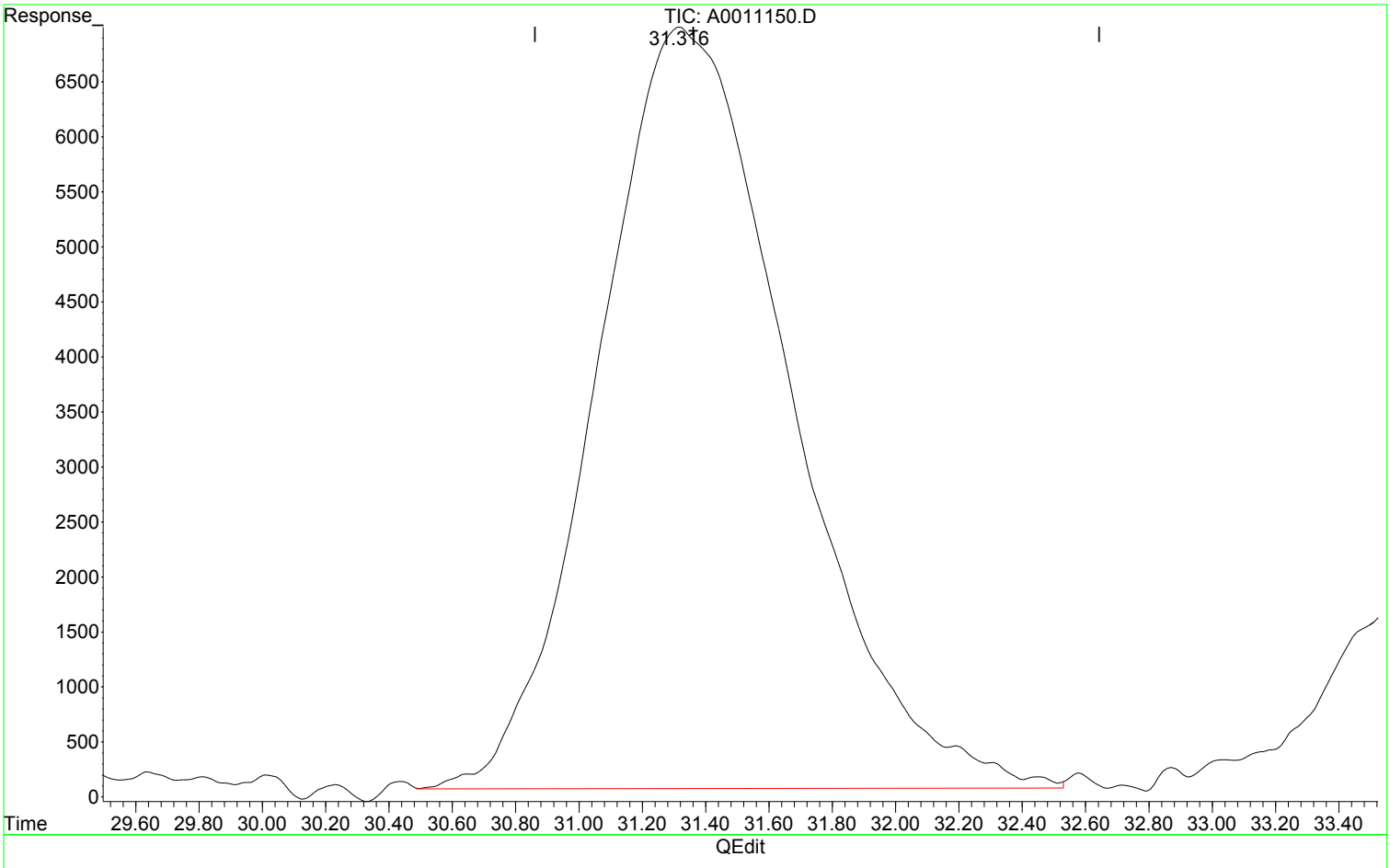
1st EDG 02/21/24
2nd AM 02/21/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011150.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 22:20:30
Operator : EDeGray
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:20:52 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:20:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

31.316min 51.129 ppm m

response 2924412

Manual Integration:

After

Poor integration.

02/21/24

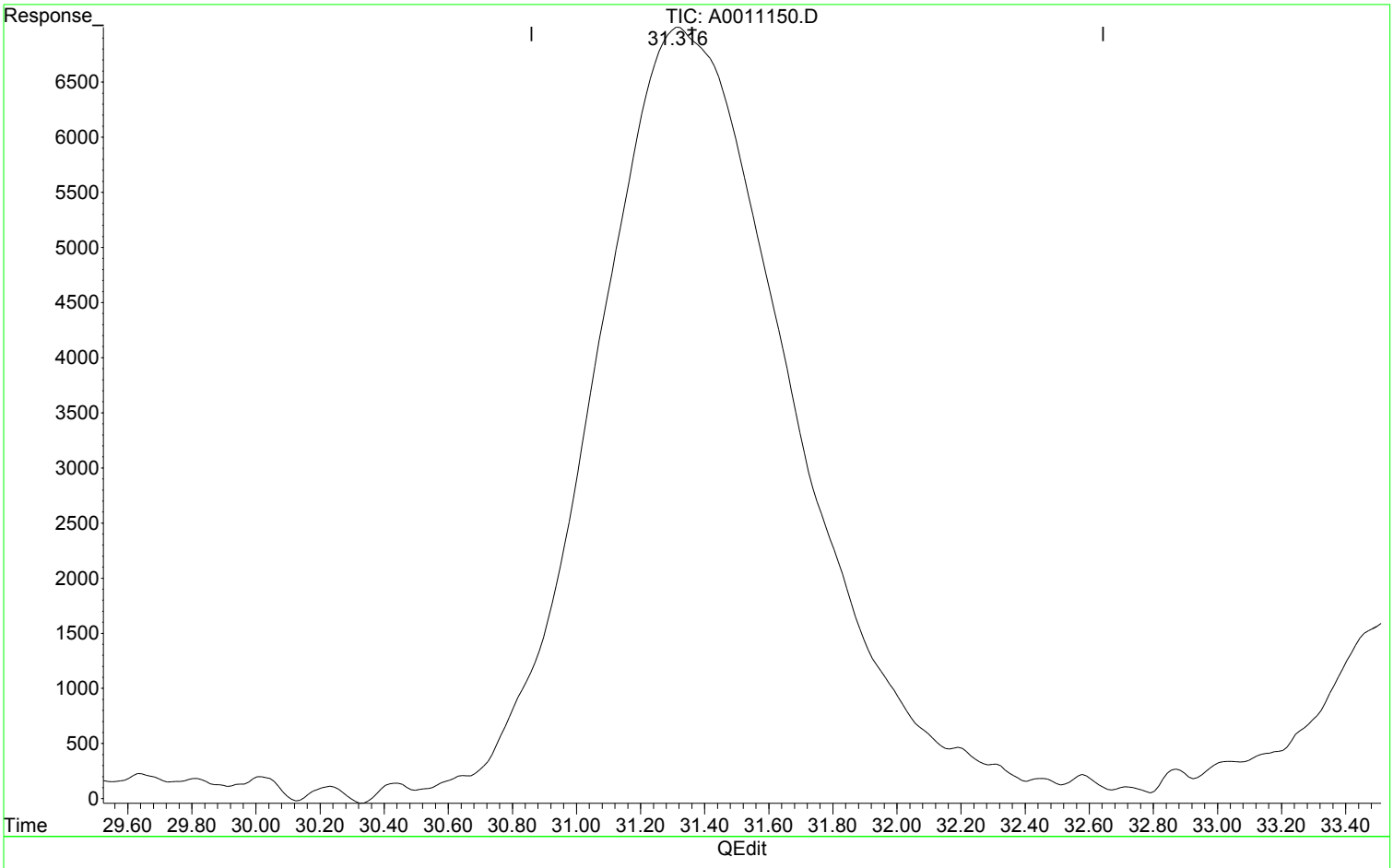
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011150.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 22:20:30
Operator : EDeGray
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:20:52 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:20:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

31.321min 55.091 ppm

response 3151016

Manual Integration:

Before

02/21/24

(+) = Expected Retention Time

1st EDG 02/21/24
2nd AM 02/21/24

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011150.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 22:20:30
Operator : EDeGray
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:20:52 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:20:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 t	Formic acid	99.603	97.052 E3	2.6	103	0.00
2 T	Pyruvic acid	636.290	716.255 E3	-12.6	115	0.00
3 T	Lactic Acid	66.894	63.451 E3	5.1	105	0.00
4 T	Acetic Acid	63.255	60.559 E3	4.3	100	0.00
5 T	Propionic Acid	61.938	63.612 E3	-2.7	105	0.00
6 T	Butyric Acid	57.197	58.488 E3	-2.3	101	-0.04

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011150.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 22:20:30
Operator : EDeGray
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:20:52 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:20:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.223	4852582	48.719	ppm	
2) T	Pyruvic acid	3.868	35812755	56.284	ppm	
3) T	Lactic Acid	4.371	3172538	47.426	ppm	
4) T	Acetic Acid	4.785	3027967	47.869	ppm	
5) T	Propionic Acid	10.869	3180618	51.351	ppm	m
6) T	Butyric Acid	31.316	2924412	51.129	ppm	m

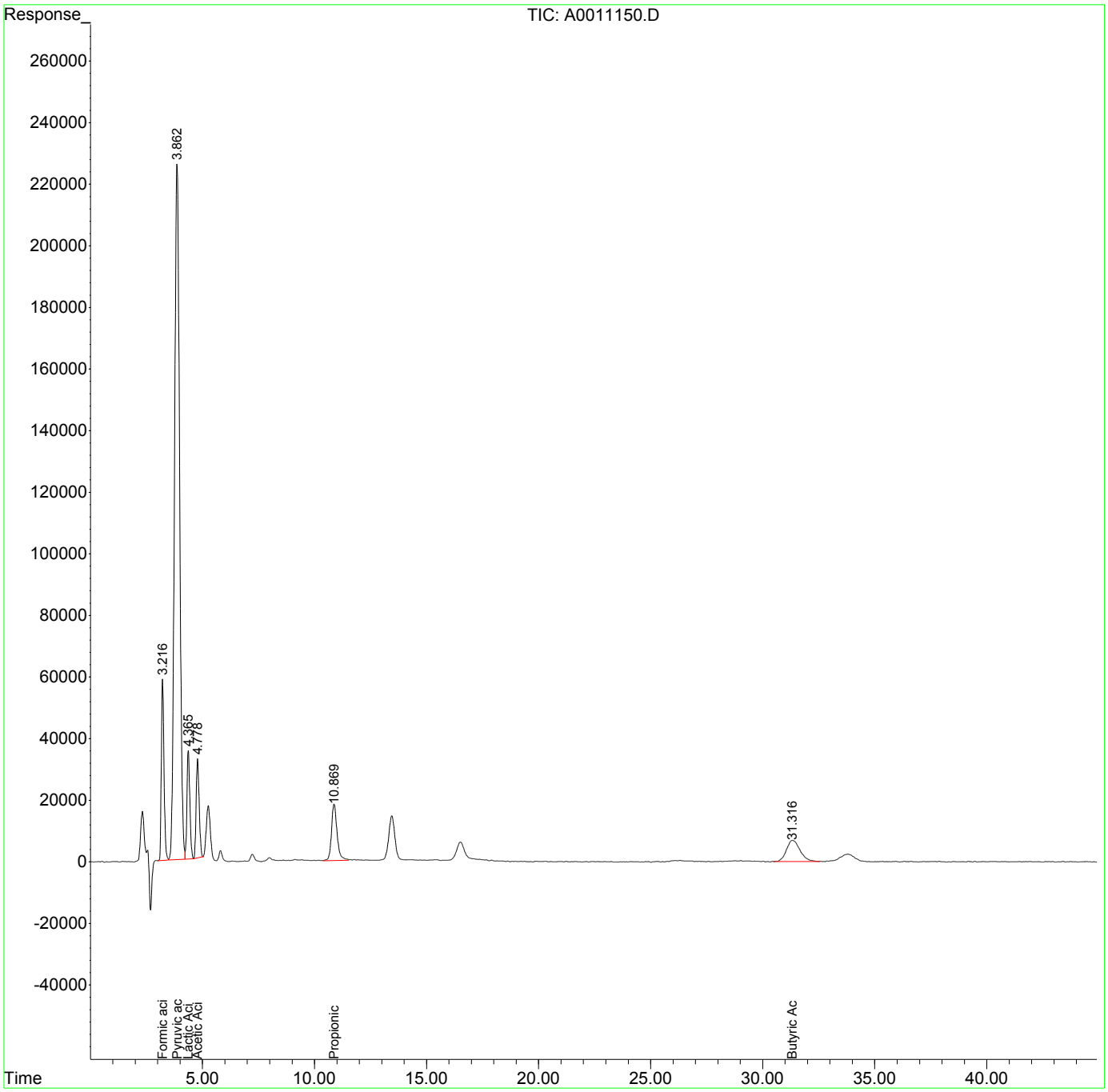
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011150.D
Signal(s) : dad1A.ch
Acq On : 20-Feb-2024, 22:20:30
Operator : EDeGray
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:20:52 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:20:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



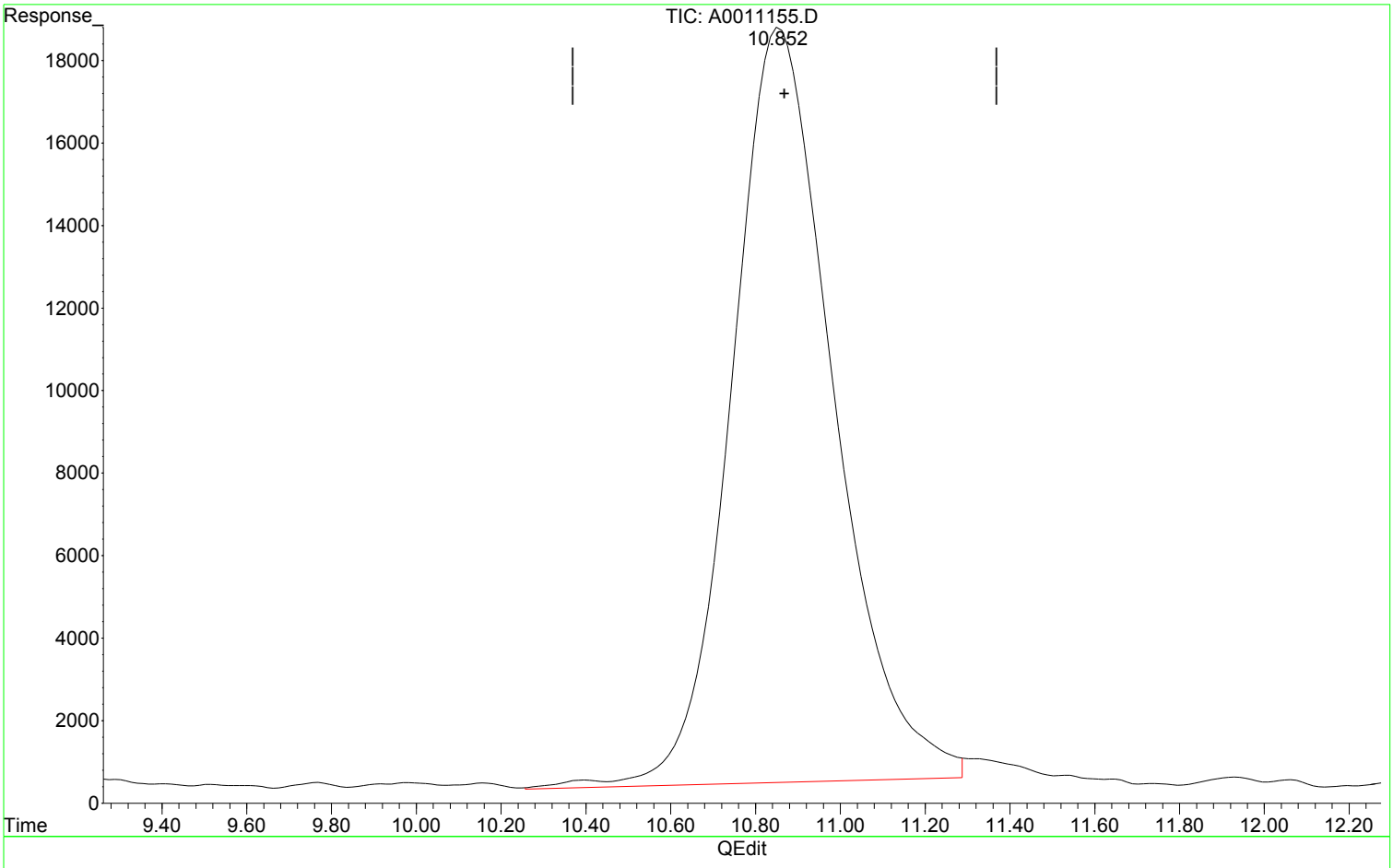
1st EDG 02/21/24
2nd AM 02/21/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011155.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:27:51
Operator : EDeGray
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:28:18 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:27:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.852min 49.254 ppm m

response 3050703

Manual Integration:

After

Poor integration.

02/21/24

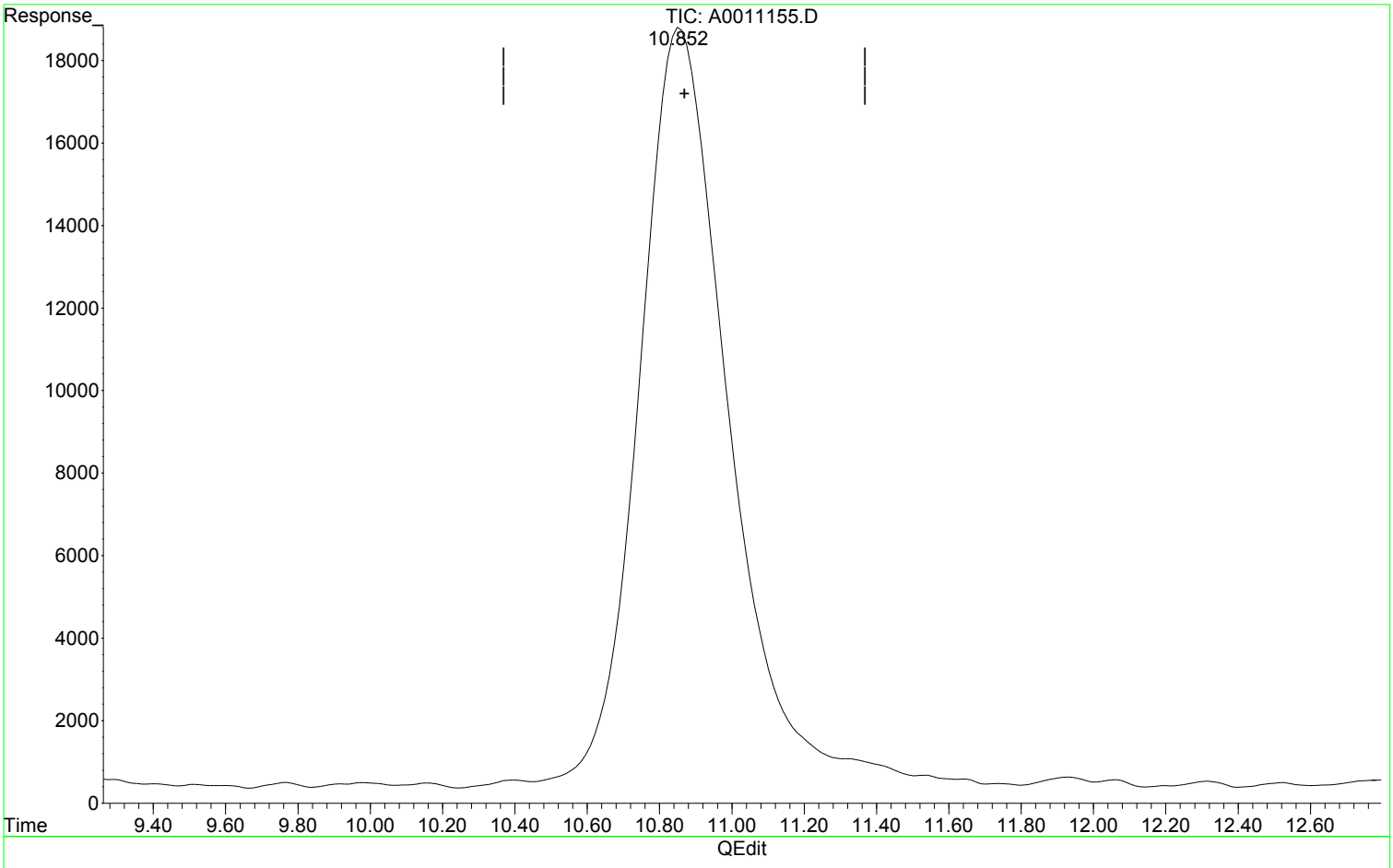
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011155.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:27:51
Operator : EDeGray
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:28:18 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:27:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.858min 57.891 ppm

response 3585699

Manual Integration:

Before

02/21/24

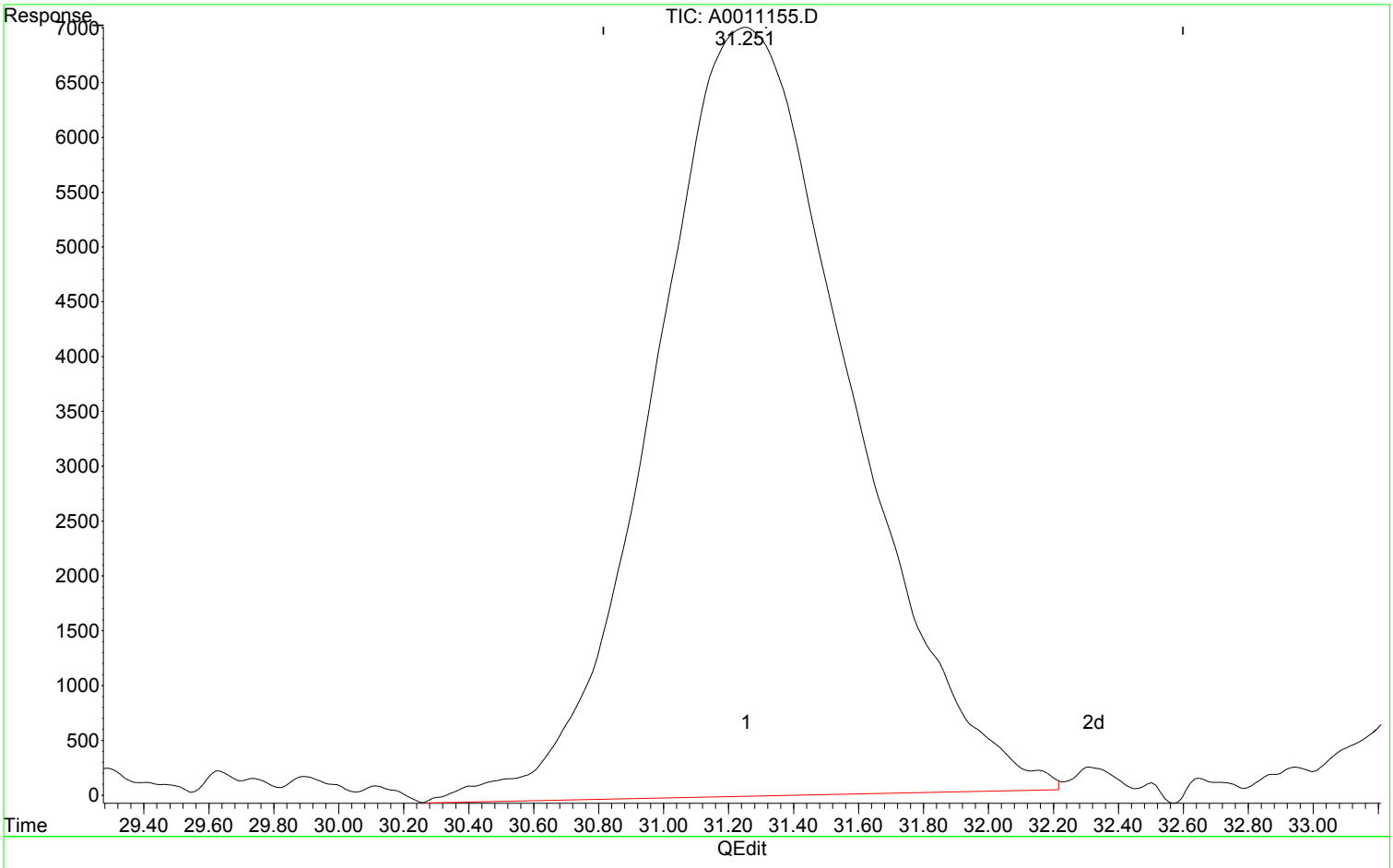
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011155.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:27:51
Operator : EDeGray
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:28:18 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:27:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

31.251min 51.375 ppm m

response 2938455

Manual Integration:

After

Poor integration.

02/21/24

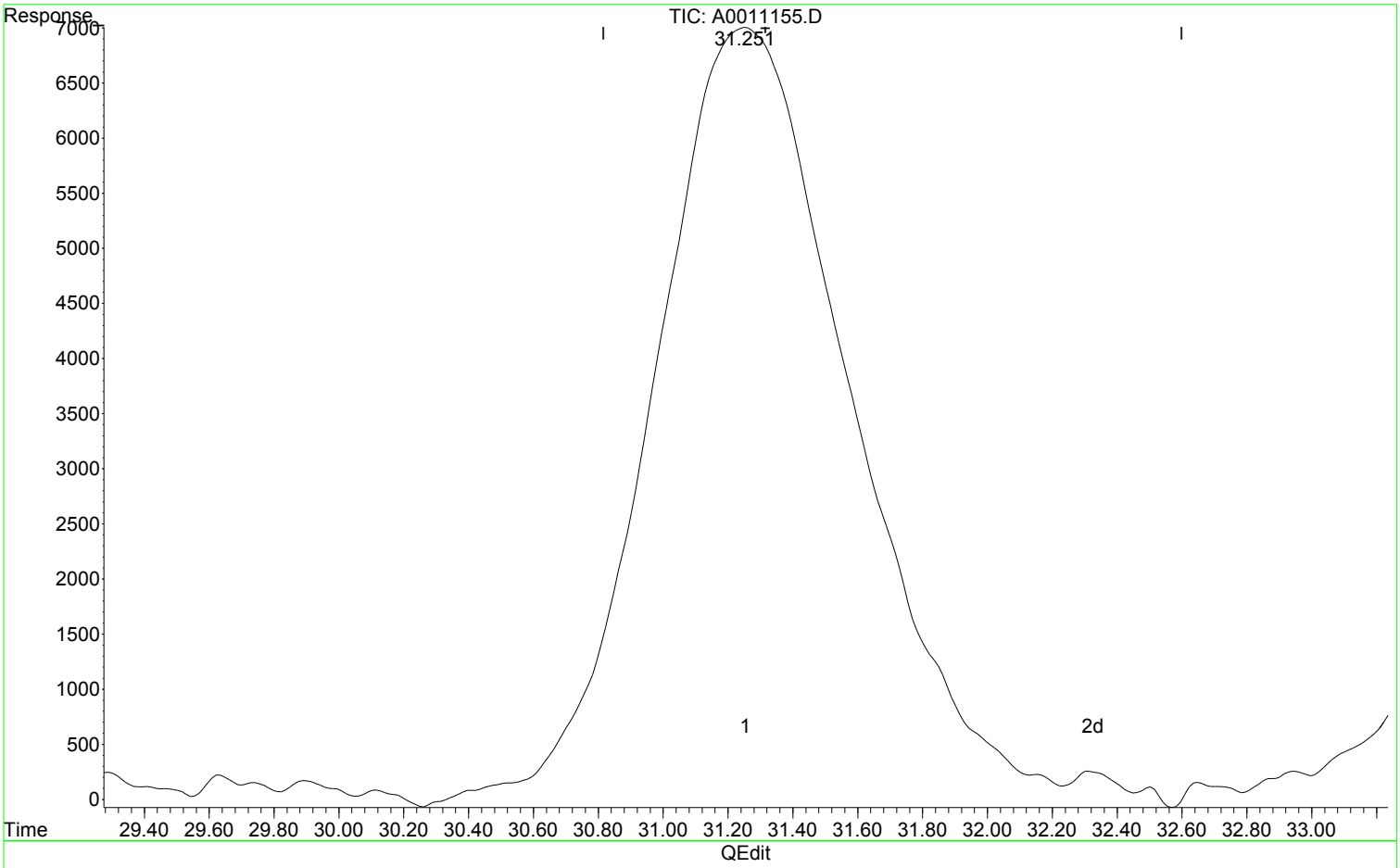
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011155.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:27:51
Operator : EDeGray
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:28:18 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:27:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

31.254min 55.254 ppm

response 3160362

Manual Integration:

Before

02/21/24

(+) = Expected Retention Time

1st EDG 02/21/24
2nd AM 02/21/24

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011155.D Wrong date/time, EDG 2/21/24
Signal(s) : dad1A.ch
Acq On : ~~30-Dec-2000, 00:27:51~~ 02:14:05 02/21/24
Operator : EDeGray
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:28:18 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:27:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 t	Formic acid	99.603	96.452 E3	3.2	102	0.00
2 T	Pyruvic acid	636.290	717.403 E3	-12.7	115	0.00
3 T	Lactic Acid	66.894	63.566 E3	5.0	105	0.00
4 T	Acetic Acid	63.255	60.558 E3	4.3	100	0.00
5 T	Propionic Acid	61.938	61.014 E3	1.5	101	0.00
6 T	Butyric Acid	57.197	58.769 E3	-2.7	102	0.06

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

1st EDG 02/21/24
2nd AM 02/21/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011155.D
Signal(s) : dad1A.ch
Wrong date/time, EDG 2/21/24
Acq On : ~~30-Dec-2000, 00:27:51~~ 02:14:05 02/21/24
Operator : EDeGray
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:28:18 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:27:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.224	4822594	48.418	ppm	
2) T	Pyruvic acid	3.867	35870130	56.374	ppm	
3) T	Lactic Acid	4.370	3178323	47.513	ppm	
4) T	Acetic Acid	4.784	3027893	47.868	ppm	
5) T	Propionic Acid	10.852	3050703	49.254	ppm	m
6) T	Butyric Acid	31.251	2938455	51.375	ppm	m

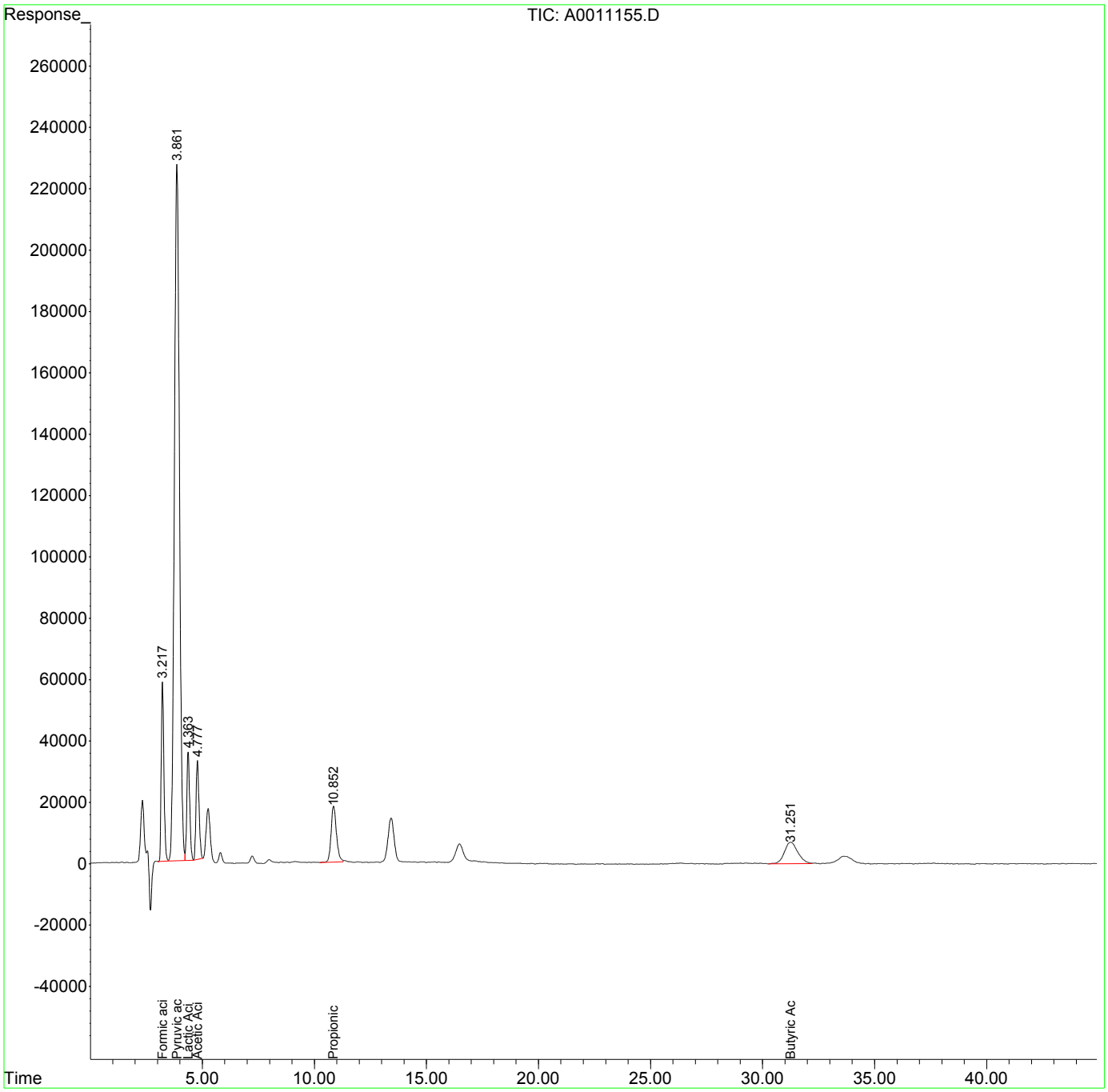
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022024\
Data File : A0011155.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:27:51
Operator : EDeGray
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 21 09:28:18 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 21 09:27:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



1st 02/23/24
2nd 02/27/24

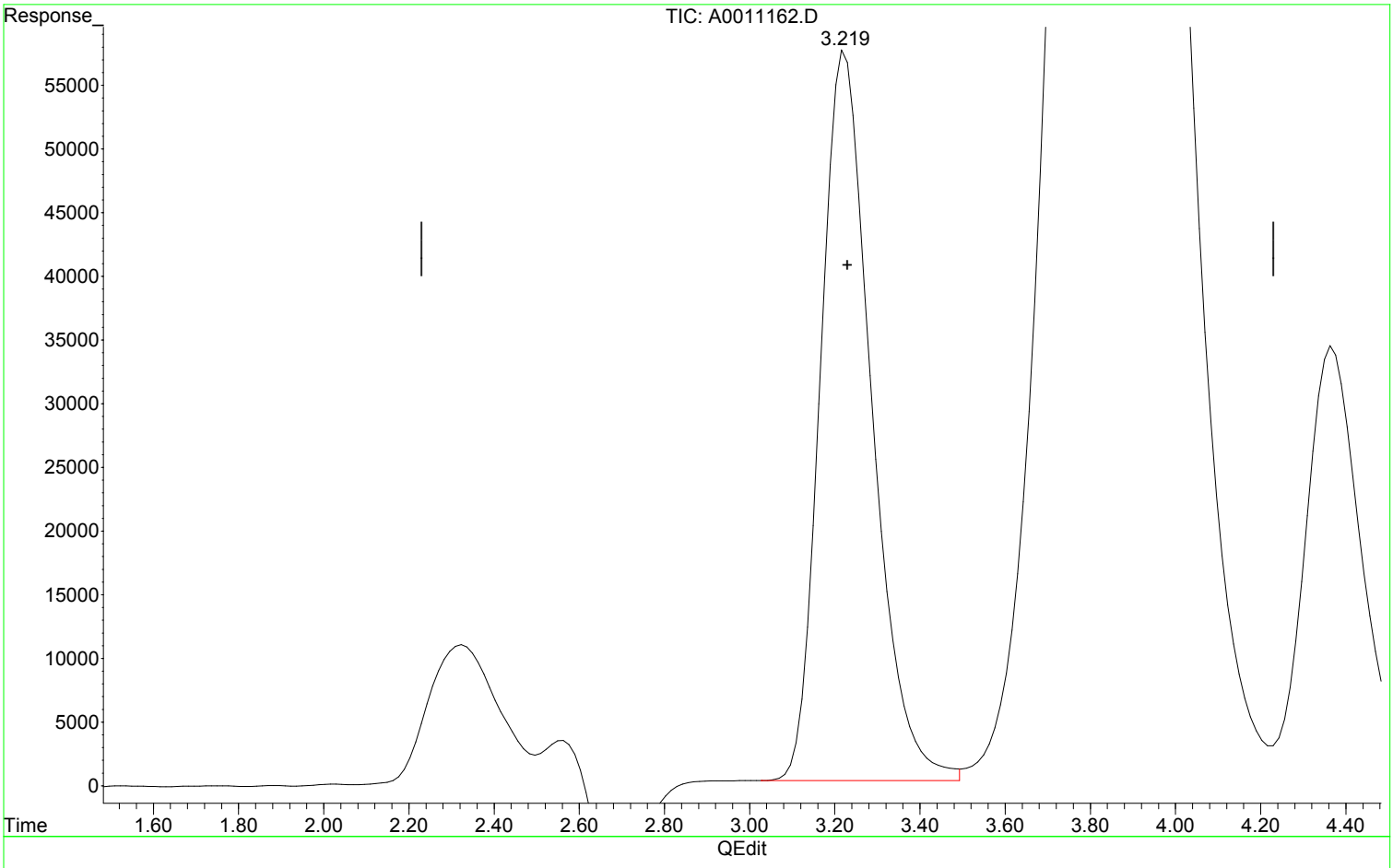
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011162.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 16:35:52
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

No before
KP 2/23/24

Integration File: MA1.E
Quant Time: Feb 23 09:57:16 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 09:56:52 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)

3.219min 48.161 ppm m

response 4796925

Manual Integration:

After

Poor integration.

02/23/24

(+) = Expected Retention Time

1st 02/23/24
2nd 02/27/24

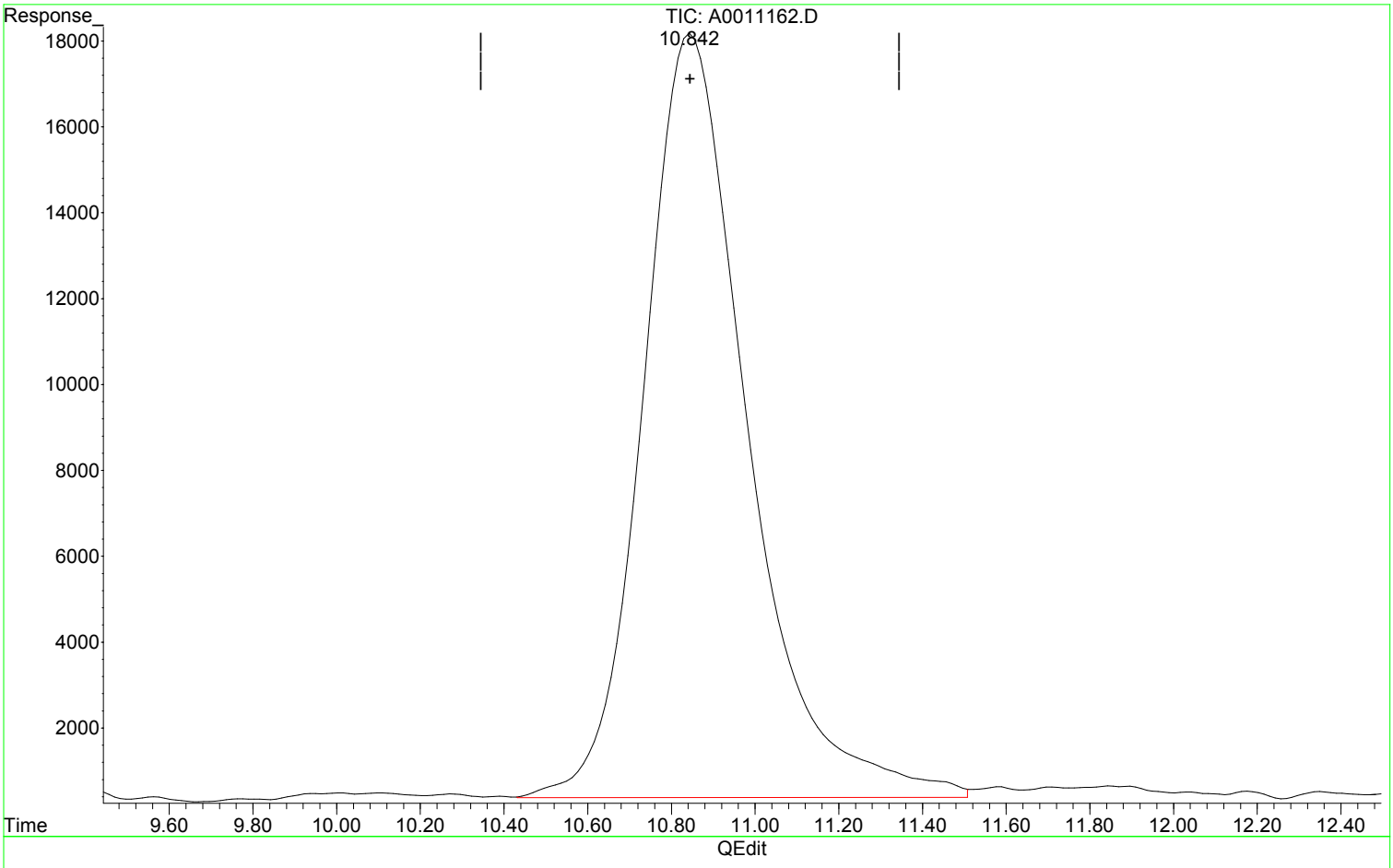
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011162.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 16:35:52
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

No before
KP 2/23/24

Integration File: MA1.E
Quant Time: Feb 23 09:57:16 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 09:56:52 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.842min 49.573 ppm m

response 3070472

Manual Integration:

After

Poor integration.

02/23/24

(+) = Expected Retention Time

1st 02/23/24
2nd 02/27/24

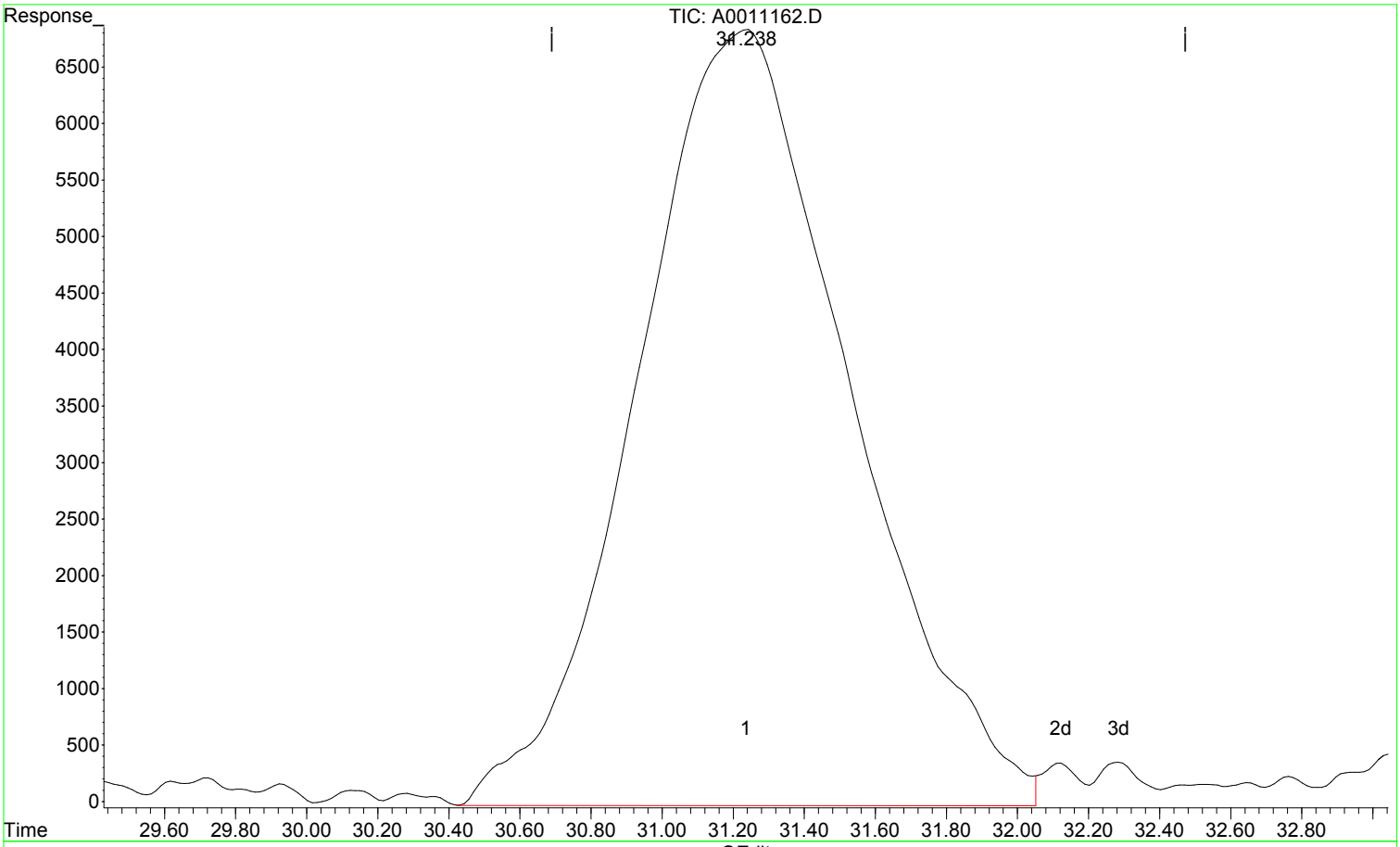
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011162.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 16:35:52
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

No before
KP 2/23/24

Integration File: MA1.E
Quant Time: Feb 23 09:57:16 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 09:56:52 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

31.238min 49.941 ppm m

response 2856441

Manual Integration:

After

Poor integration.

02/23/24

(+) = Expected Retention Time

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011162.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 16:35:52
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 09:57:16 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 09:56:52 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 t	Formic acid	99.603	95.939 E3	3.7	101	-0.01
2 T	Pyruvic acid	636.290	673.495 E3	-5.8	108	0.00
3 T	Lactic Acid	66.894	60.554 E3	9.5	100	0.00
4 T	Acetic Acid	63.255	58.262 E3	7.9	96	0.00
5 T	Propionic Acid	61.938	61.409 E3	0.9	101	0.00
6 T	Butyric Acid	57.197	57.129 E3	0.1	99	0.05

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

1st 02/23/24
2nd 02/27/24

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011162.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 16:35:52
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 09:57:16 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 09:56:52 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.219	4796925	48.161	ppm	m
2) T	Pyruvic acid	3.865	33674753	52.924	ppm	
3) T	Lactic Acid	4.370	3027708	45.261	ppm	
4) T	Acetic Acid	4.785	2913095	46.053	ppm	
5) T	Propionic Acid	10.842	3070472	49.573	ppm	m
6) T	Butyric Acid	31.238	2856441	49.941	ppm	m

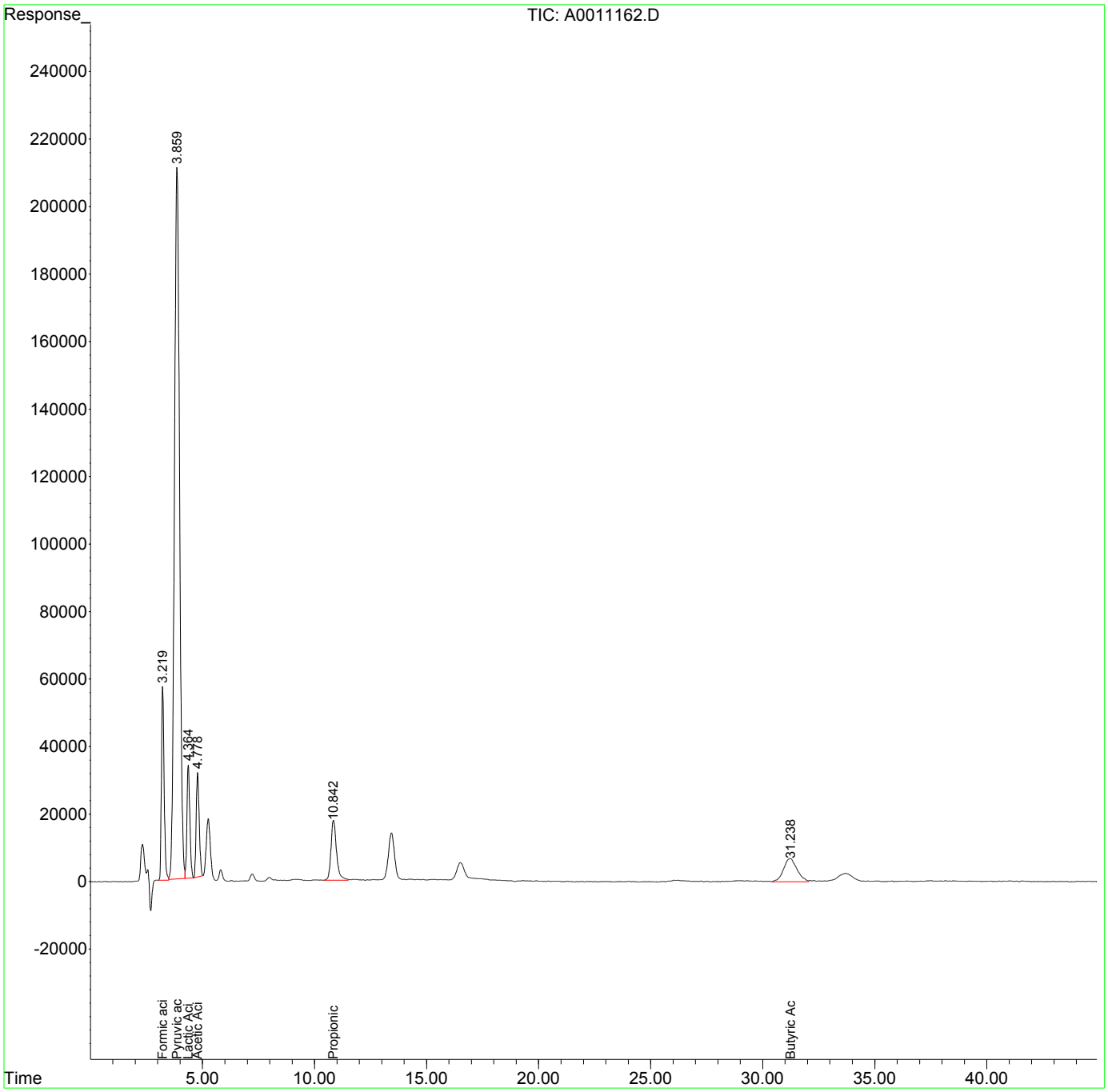
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011162.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 16:35:52
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 09:57:16 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 09:56:52 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

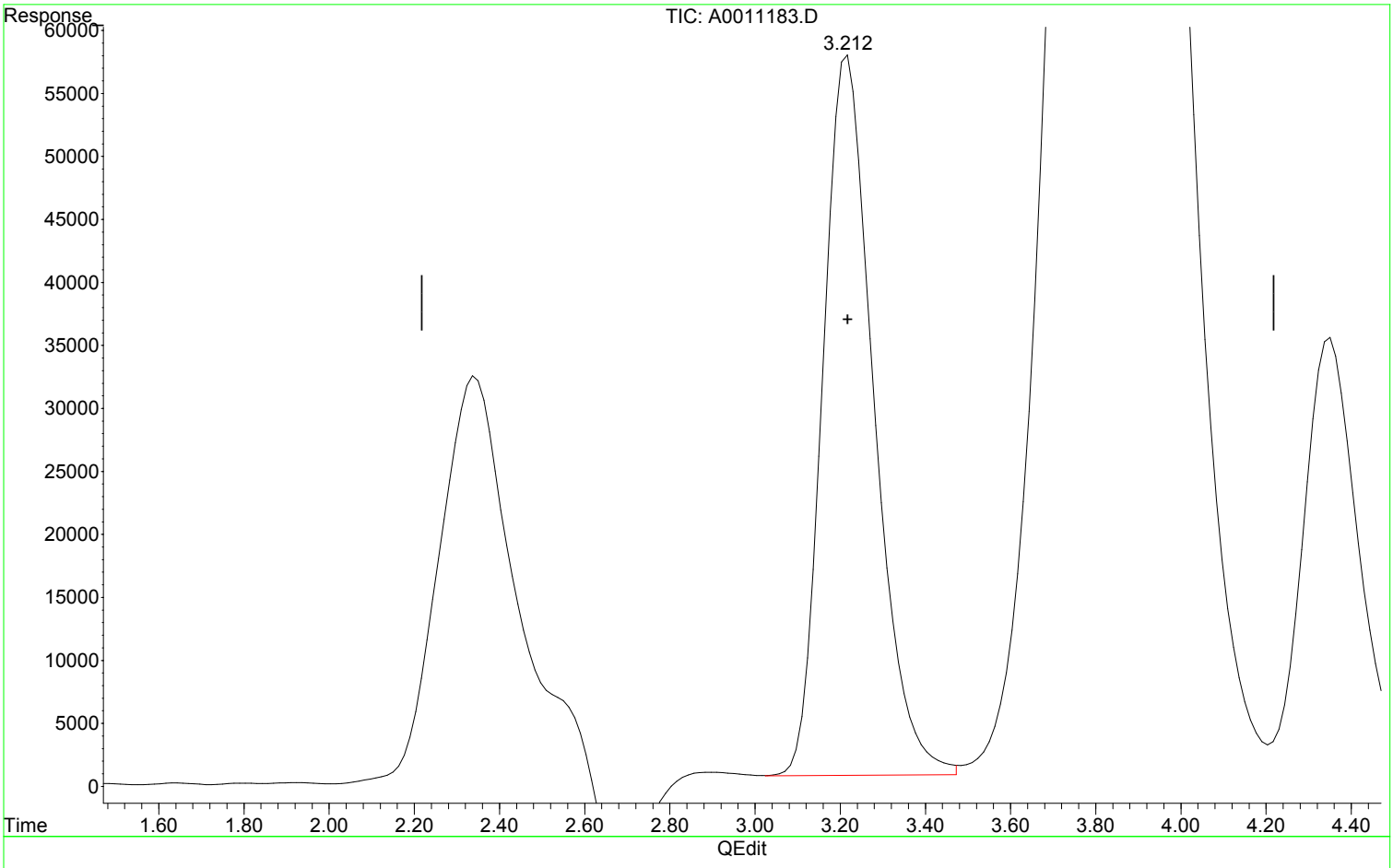


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011183.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 17:48:07
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:42:27 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:42:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)

3.212min 47.859 ppm m

response 4766921

Manual Integration:

After

Poor integration.

02/23/24

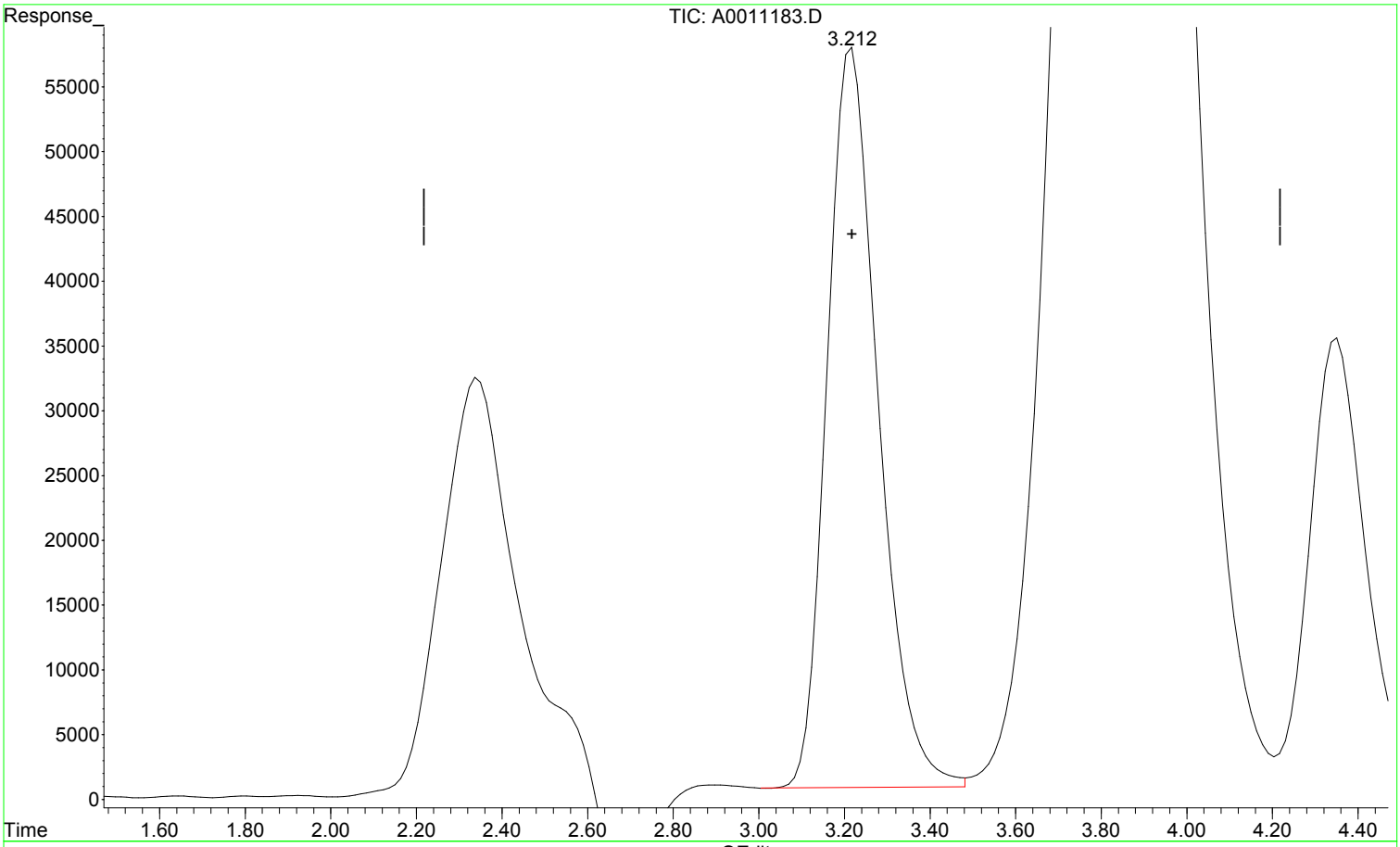
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011183.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 17:48:07
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:42:27 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:42:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)

3.219min 47.720 ppm

response 4753084

Manual Integration:

Before

02/23/24

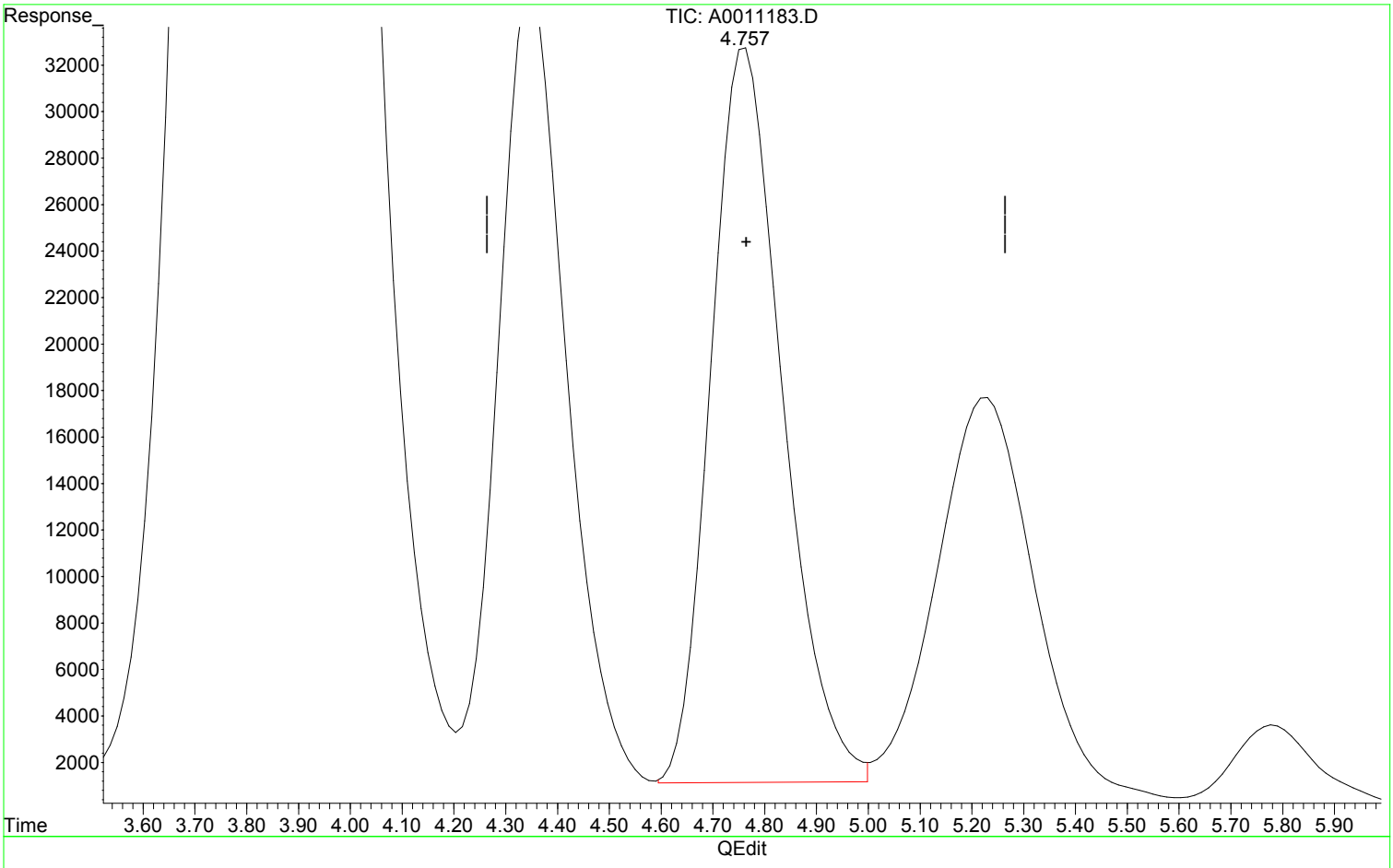
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011183.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 17:48:07
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:42:27 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:42:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.757min 48.088 ppm m

response 3041763

Manual Integration:

After

Poor integration.

02/23/24

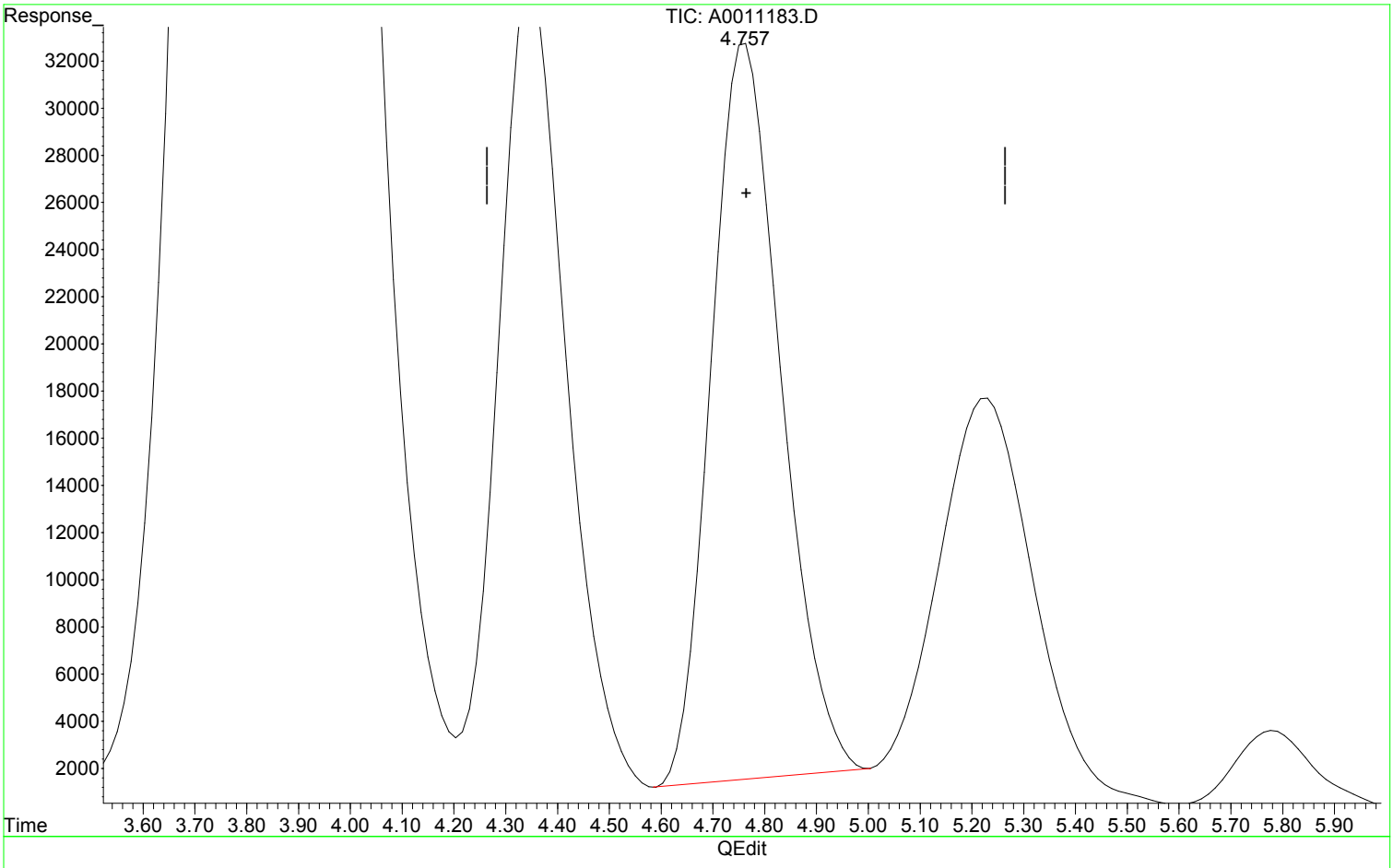
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011183.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 17:48:07
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:42:27 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:42:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.764min 46.332 ppm

response 2930695

Manual Integration:

Before

02/23/24

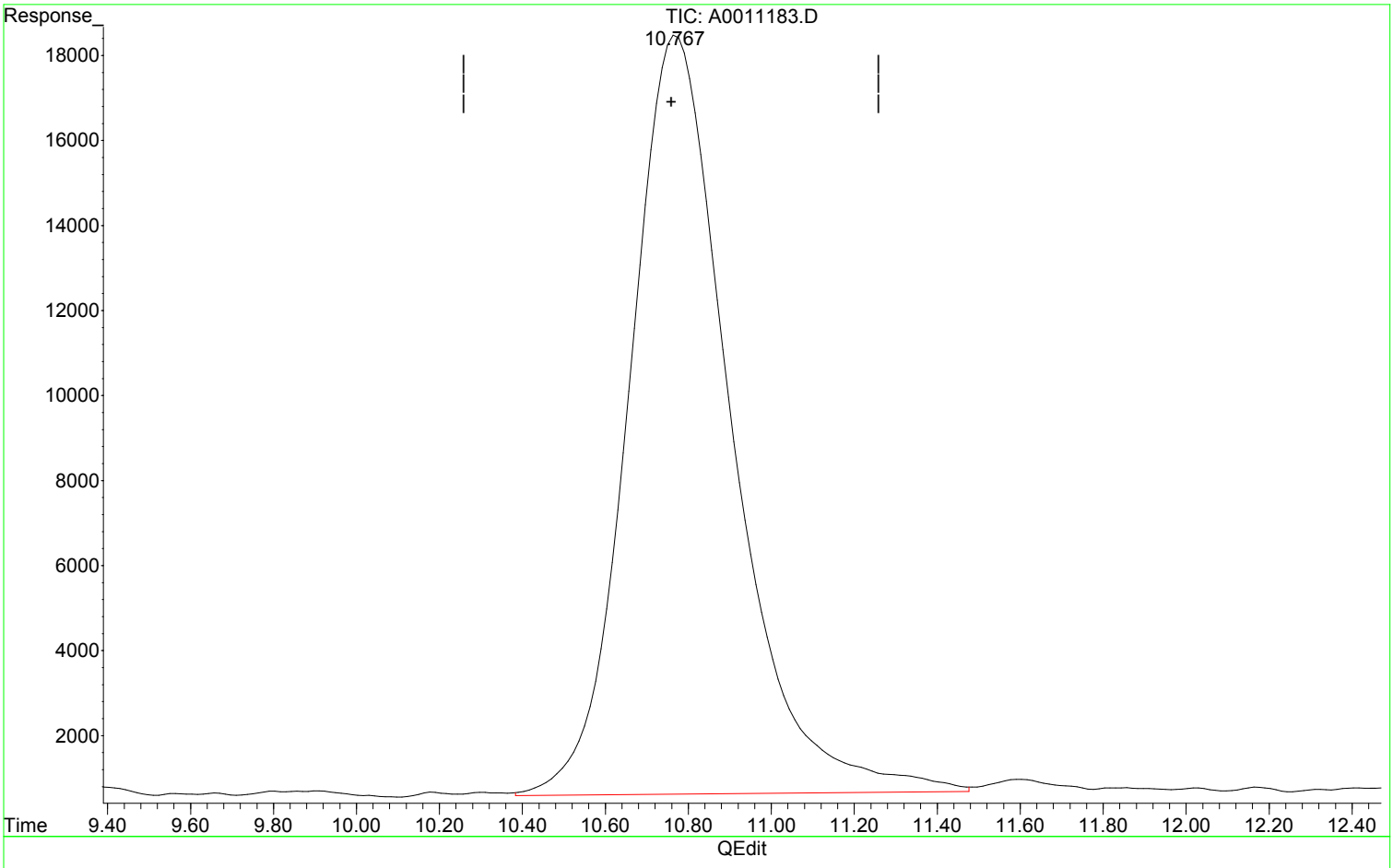
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011183.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 17:48:07
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:42:27 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:42:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.767min 49.303 ppm m

response 3053723

Manual Integration:

After

Poor integration.

02/23/24

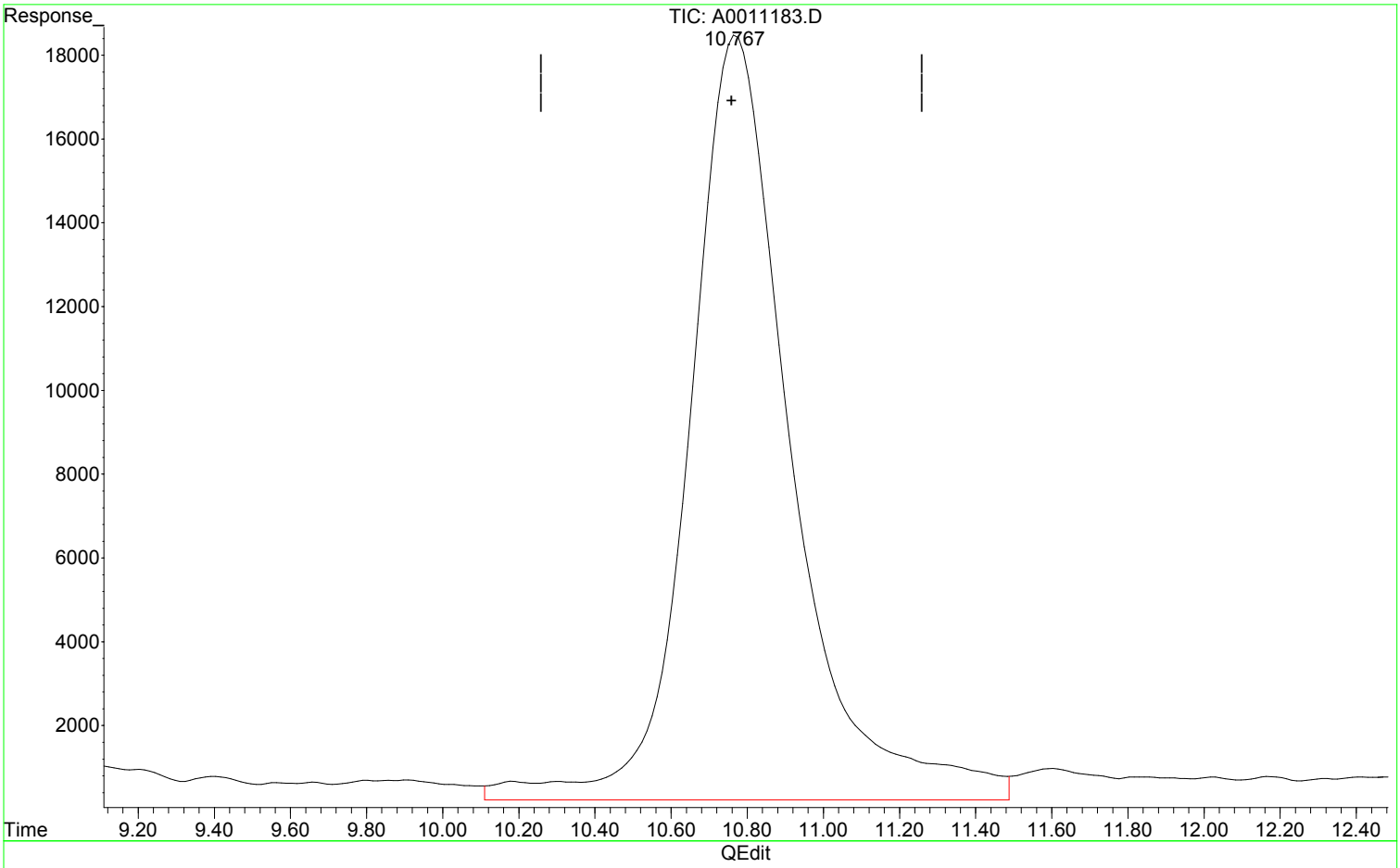
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011183.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 17:48:07
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:42:27 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:42:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.773min 54.774 ppm

response 3392600

Manual Integration:

Before

02/23/24

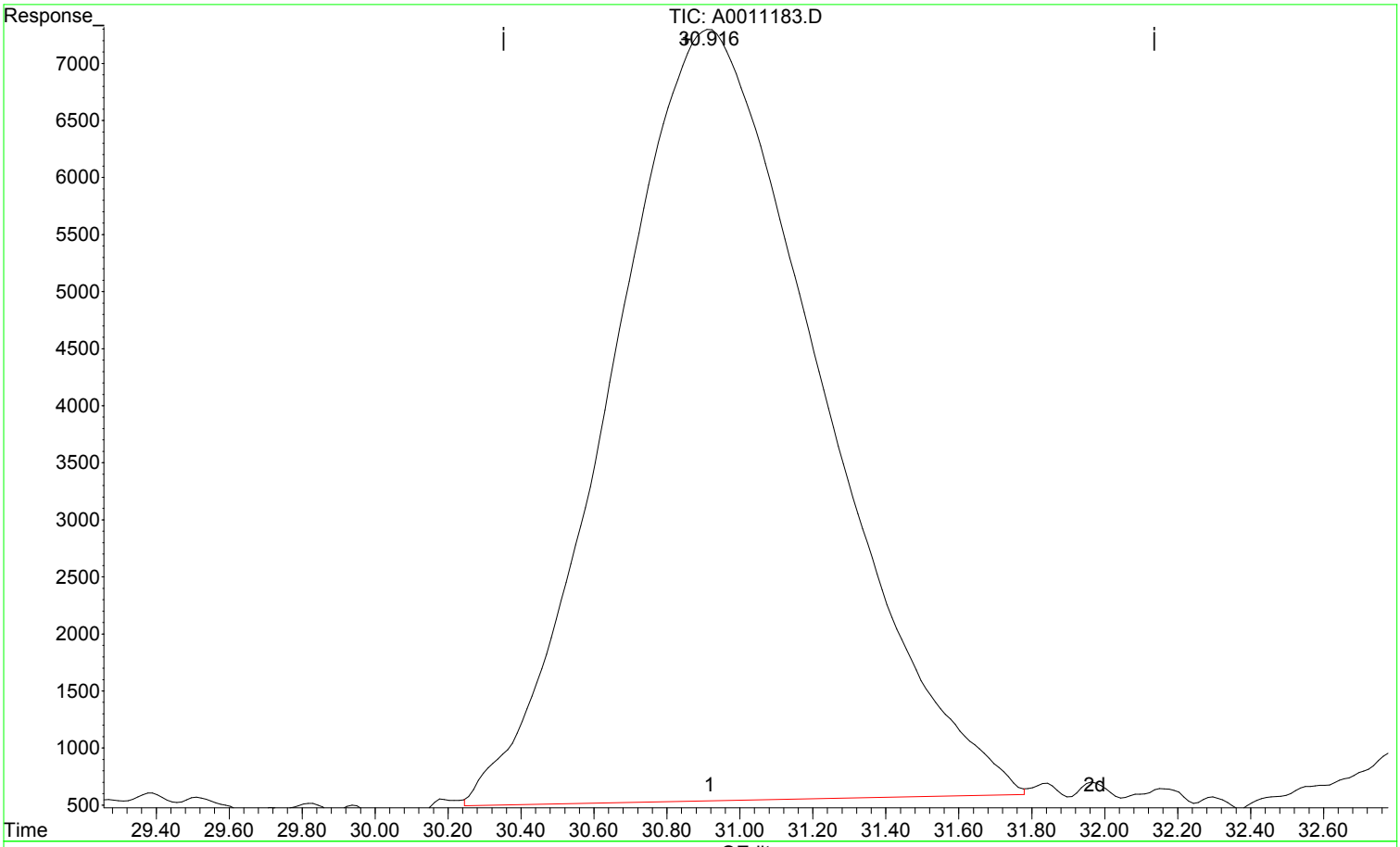
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011183.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 17:48:07
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:42:27 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:42:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

30.916min 47.001 ppm m

response 2688326

Manual Integration:

After

Poor integration.

02/23/24

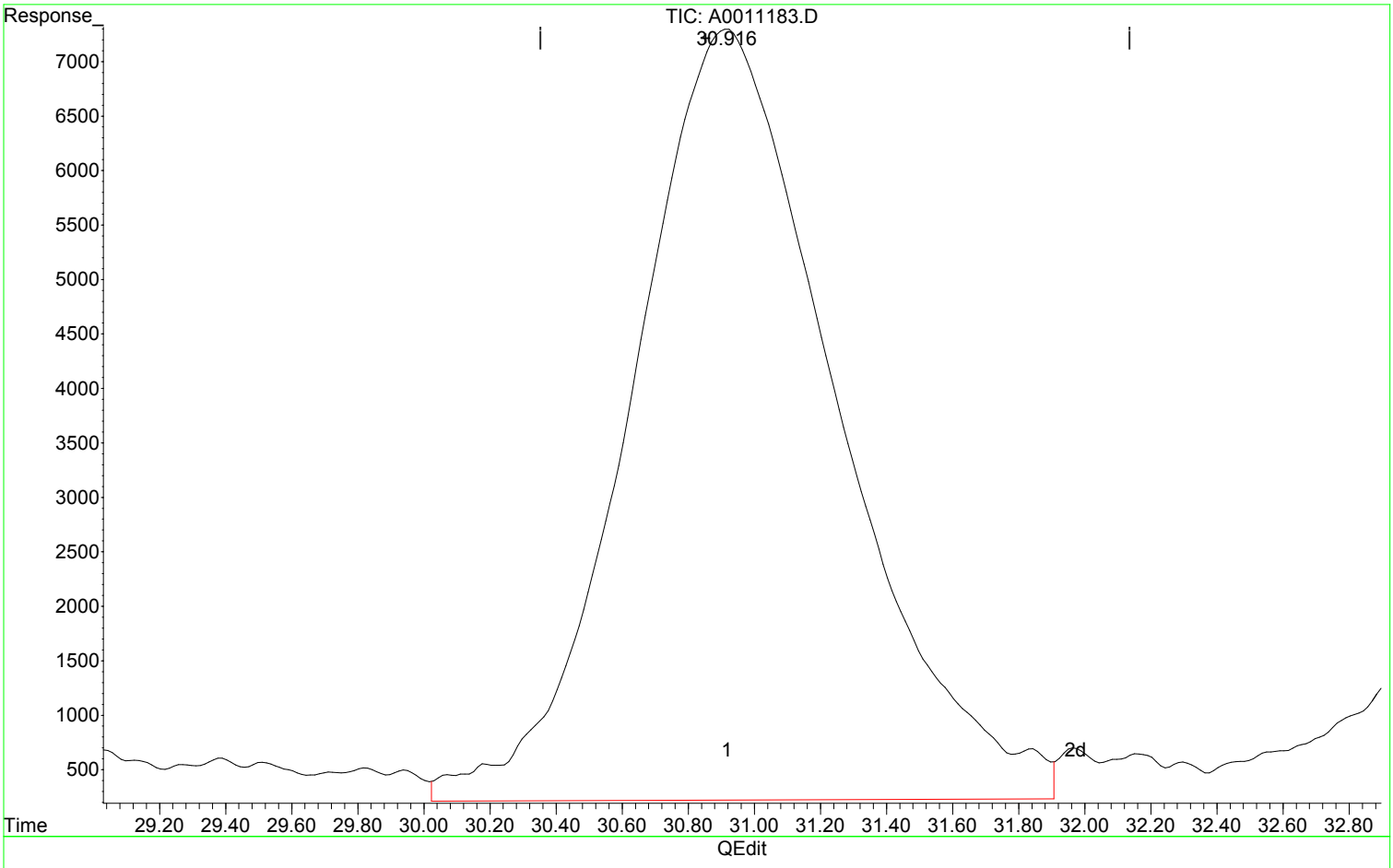
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011183.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 17:48:07
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:42:27 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:42:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

30.917min 53.331 ppm

response 3050333

Manual Integration:

Before

02/23/24

(+) = Expected Retention Time

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011183.D
Signal(s) : dad1A.ch Wrong date/time 09:05:07 02/22/24 KP 2/26/24
Acq On : ~~30-Dec-2000, 17:48:07~~
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:42:27 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:42:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 t	Formic acid	99.603	95.338 E3	4.3	101	0.00
2 T	Pyruvic acid	636.290	688.829 E3	-8.3	110	0.00
3 T	Lactic Acid	66.894	61.901 E3	7.5	102	0.00
4 T	Acetic Acid	63.255	60.835 E3	3.8	100	0.00
5 T	Propionic Acid	61.938	61.074 E3	1.4	101	0.00
6 T	Butyric Acid	57.197	53.767 E3	6.0	93	0.06

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

1st 02/23/24
2nd 02/27/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011183.D
Signal(s) : dad1A.ch Wrong date/time 09:05:07 02/22/24 KP 2/26/24
Acq On : ~~30-Dec-2000, 17:48:07~~
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:42:27 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:42:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.212	4766921	47.859	ppm	m
2) T	Pyruvic acid	3.852	34441465	54.129	ppm	
3) T	Lactic Acid	4.352	3095071	46.268	ppm	
4) T	Acetic Acid	4.757	3041763	48.088	ppm	m
5) T	Propionic Acid	10.767	3053723	49.303	ppm	m
6) T	Butyric Acid	30.916	2688326	47.001	ppm	m

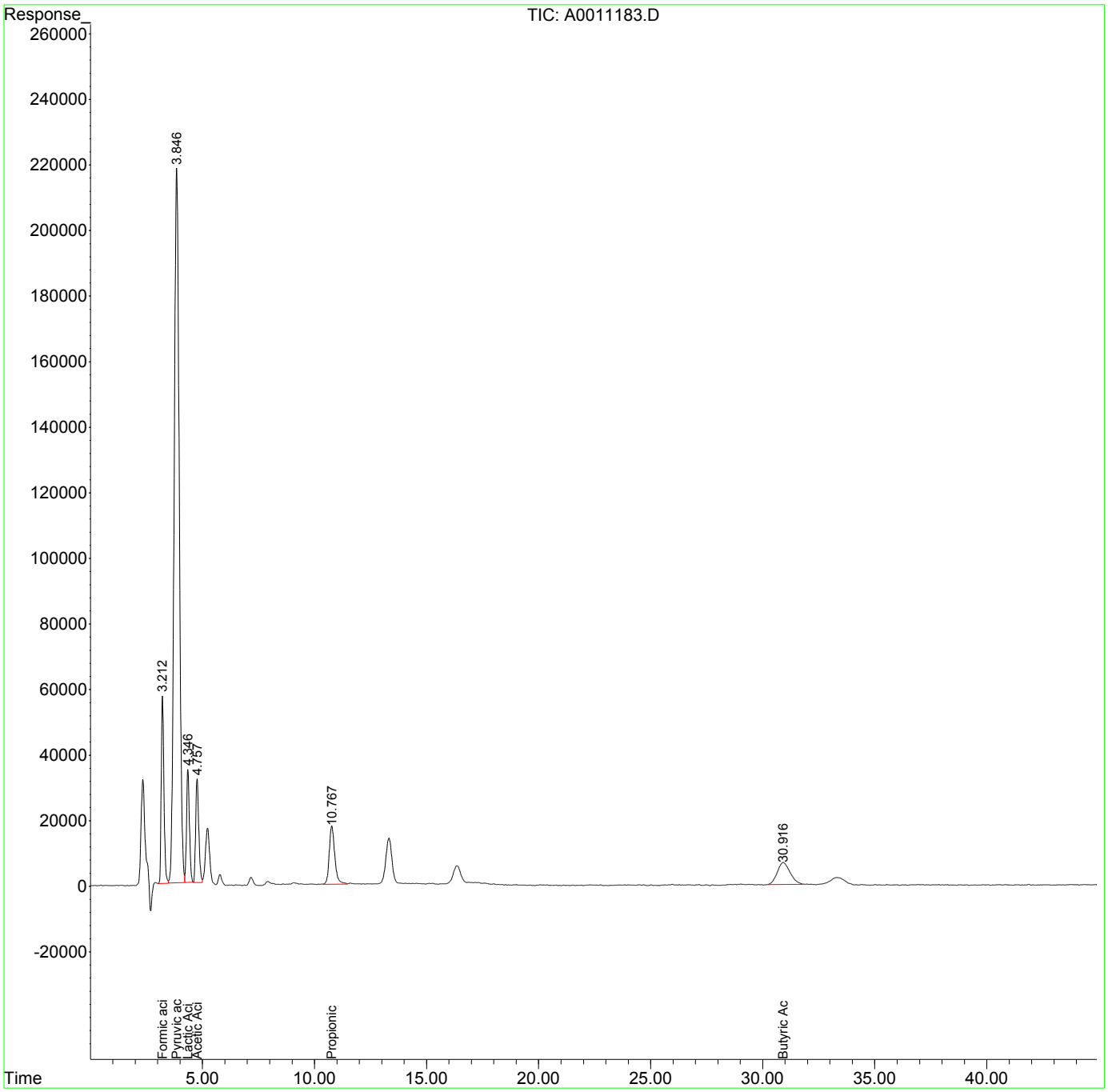
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011183.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 17:48:07
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:42:27 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:42:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

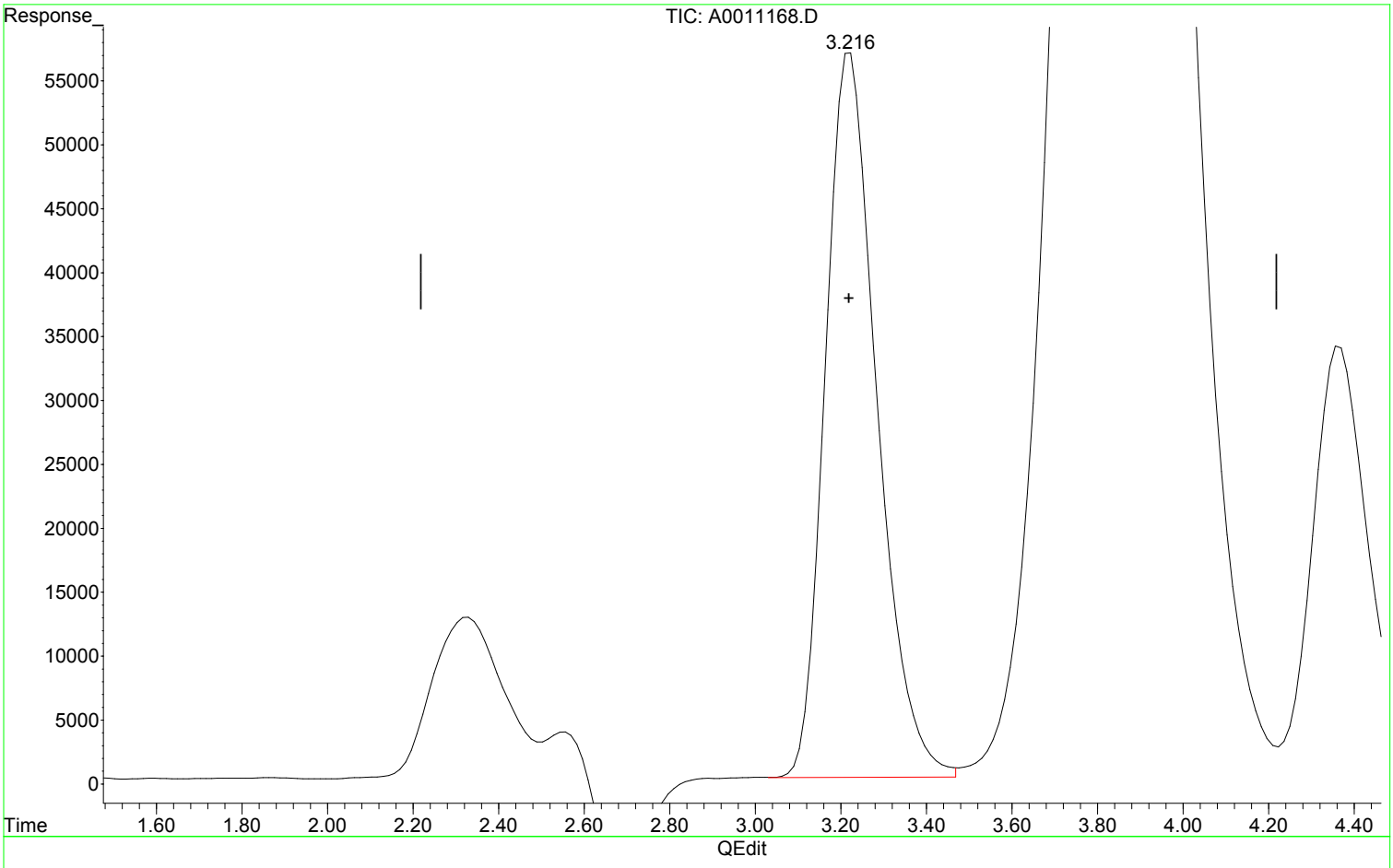


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011168.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 21:19:10
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:38 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)

3.216min 47.896 ppm m

response 4770613

Manual Integration:

After

Poor integration.

02/23/24

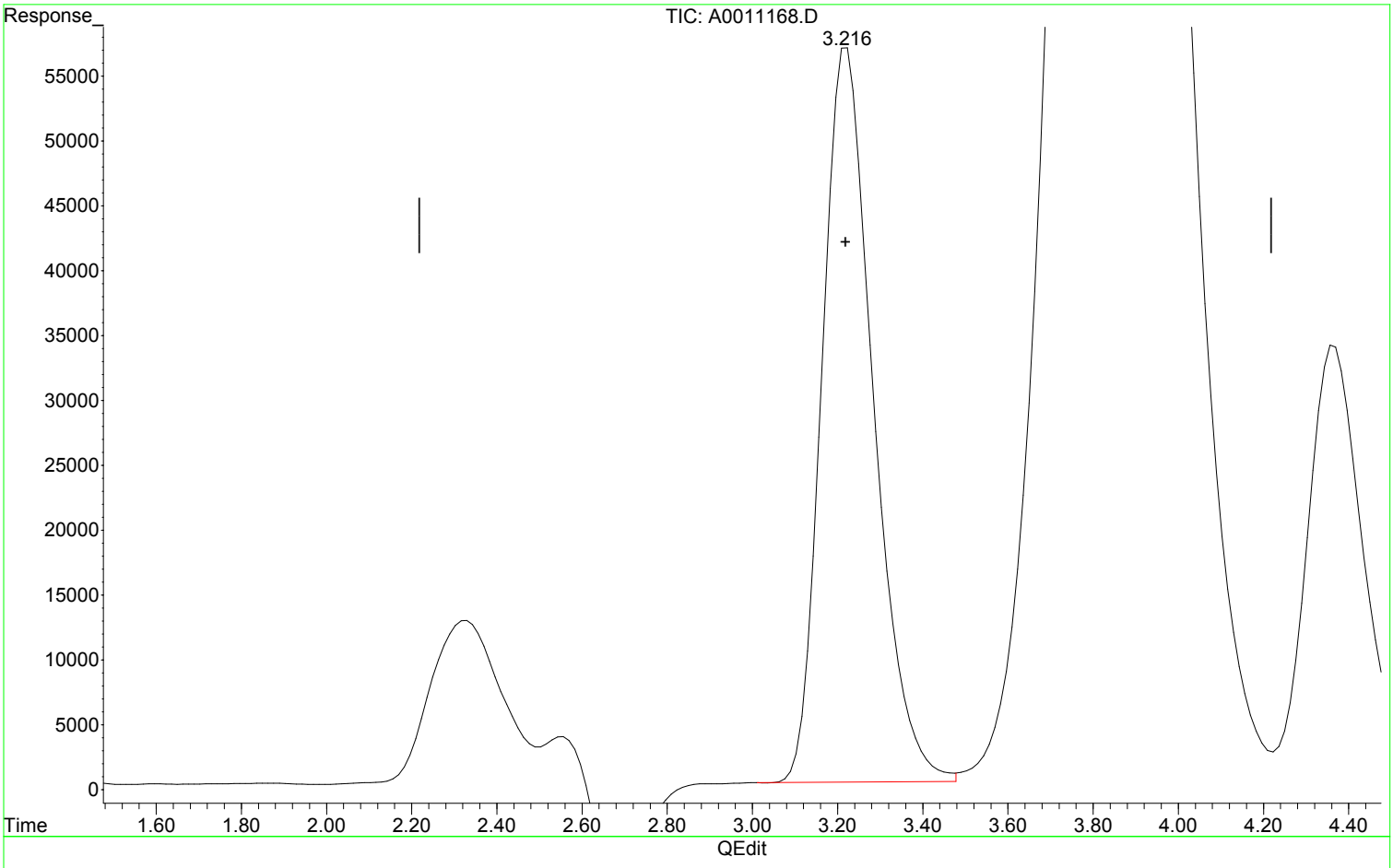
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011168.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 21:19:10
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:38 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)

3.223min 47.753 ppm

response 4756307

Manual Integration:

Before

02/23/24

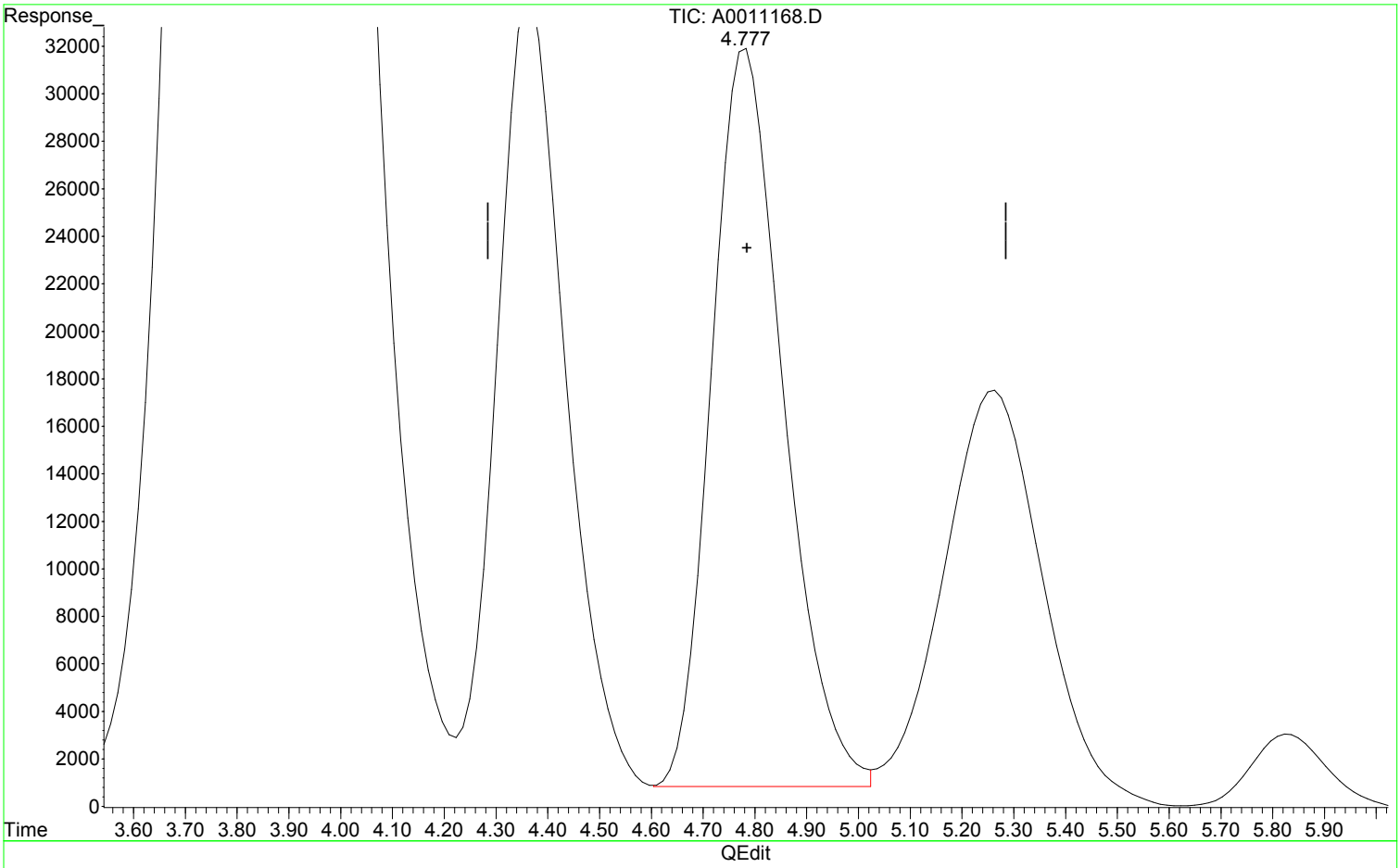
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011168.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 21:19:10
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:38 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.777min 47.659 ppm m

response 3014631

Manual Integration:

After

Poor integration.

02/23/24

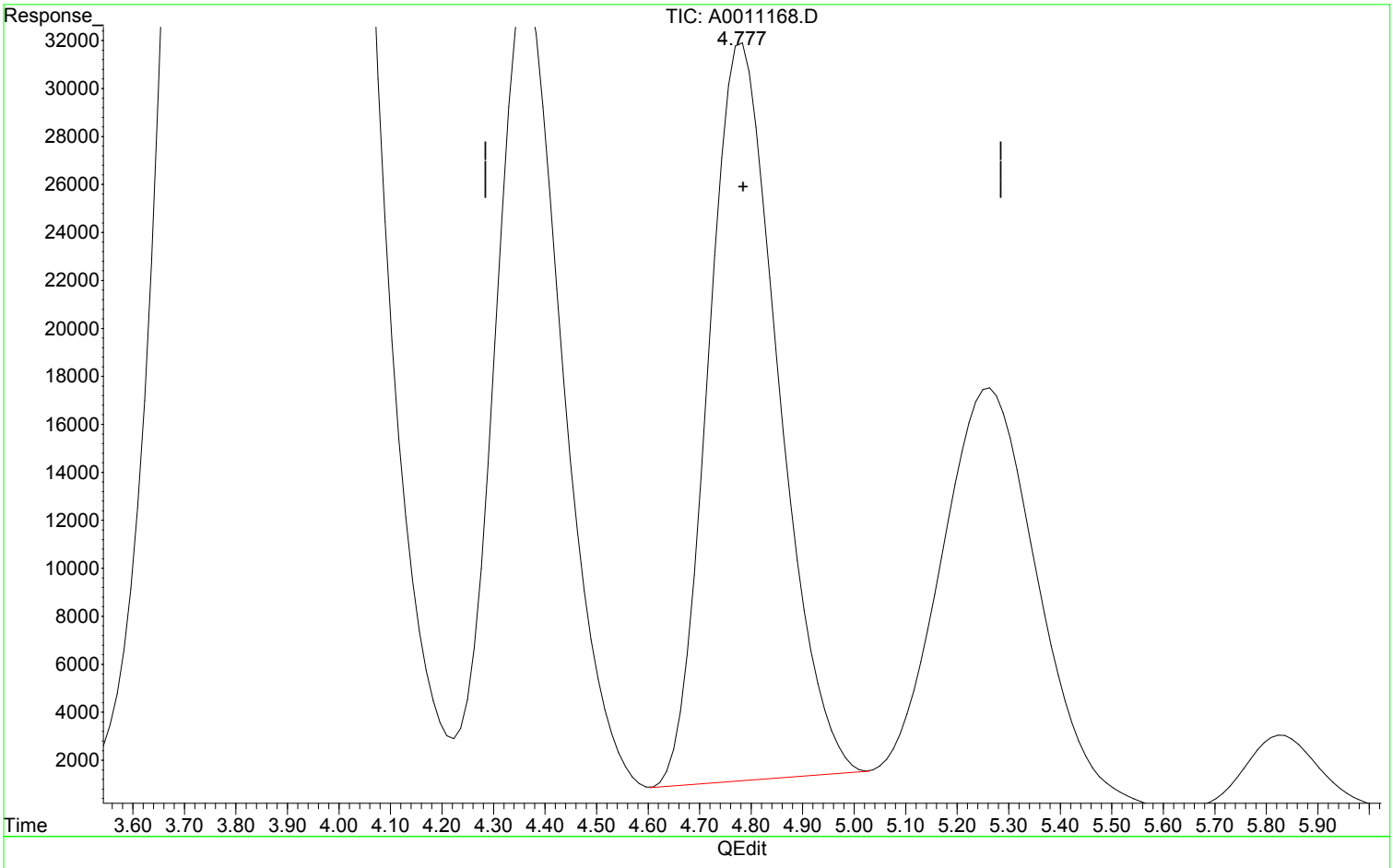
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011168.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 21:19:10
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:38 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.785min 46.124 ppm

response 2917536

Manual Integration:

Before

02/23/24

(+) = Expected Retention Time

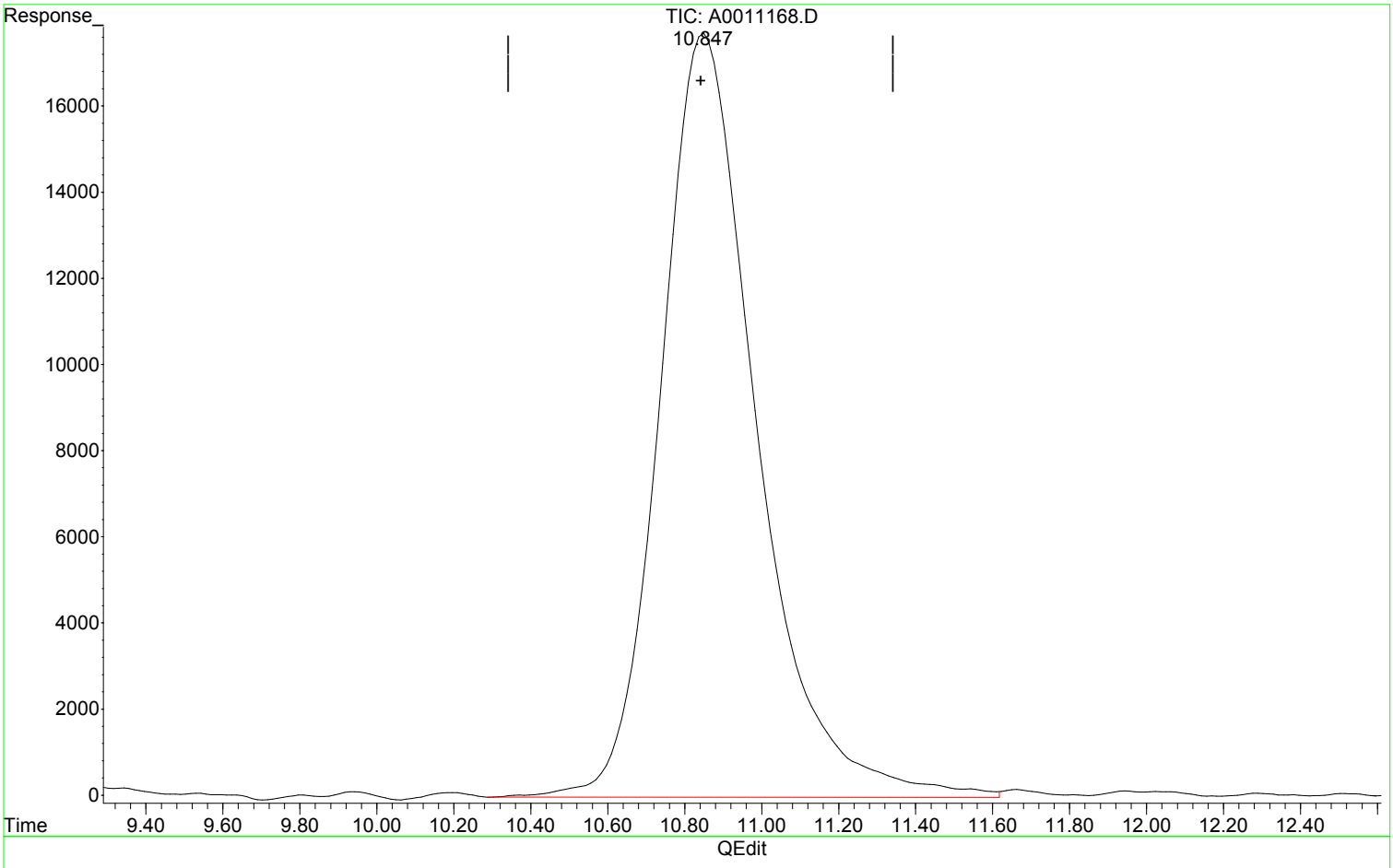
1st 02/23/24
2nd 02/27/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011168.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 21:19:10
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:38 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.847min 49.666 ppm m

response 3076266

Manual Integration:

After

Poor integration.

02/23/24

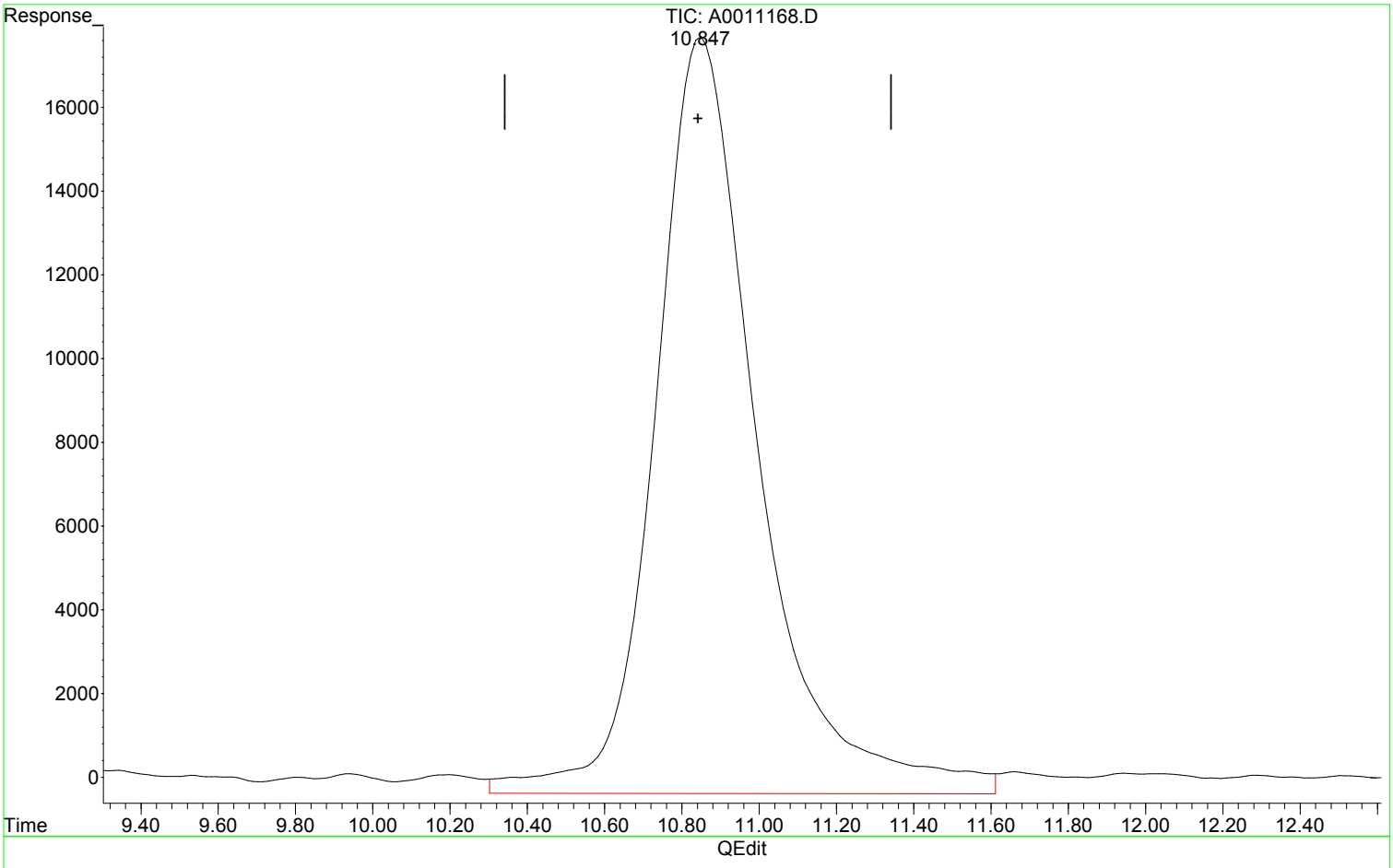
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011168.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 21:19:10
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:38 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.853min 53.955 ppm

response 3341879

Manual Integration:

Before

02/23/24

(+) = Expected Retention Time

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011168.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 21:19:10
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:38 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 t	Formic acid	99.603	95.412 E3	4.2	101	0.00
2 T	Pyruvic acid	636.290	674.694 E3	-6.0	108	0.00
3 T	Lactic Acid	66.894	60.937 E3	8.9	101	0.00
4 T	Acetic Acid	63.255	60.293 E3	4.7	99	0.00
5 T	Propionic Acid	61.938	61.525 E3	0.7	101	0.00
6 T	Butyric Acid	57.197	56.602 E3	1.0	98	-0.01

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

1st 02/23/24
2nd 02/27/24

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011168.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 21:19:10
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:38 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.216	4770613	47.896	ppm	m
2) T	Pyruvic acid	3.859	33734718	53.018	ppm	
3) T	Lactic Acid	4.368	3046865	45.547	ppm	
4) T	Acetic Acid	4.777	3014631	47.659	ppm	m
5) T	Propionic Acid	10.847	3076266	49.666	ppm	m
6) T	Butyric Acid	31.227	2830107	49.480	ppm	

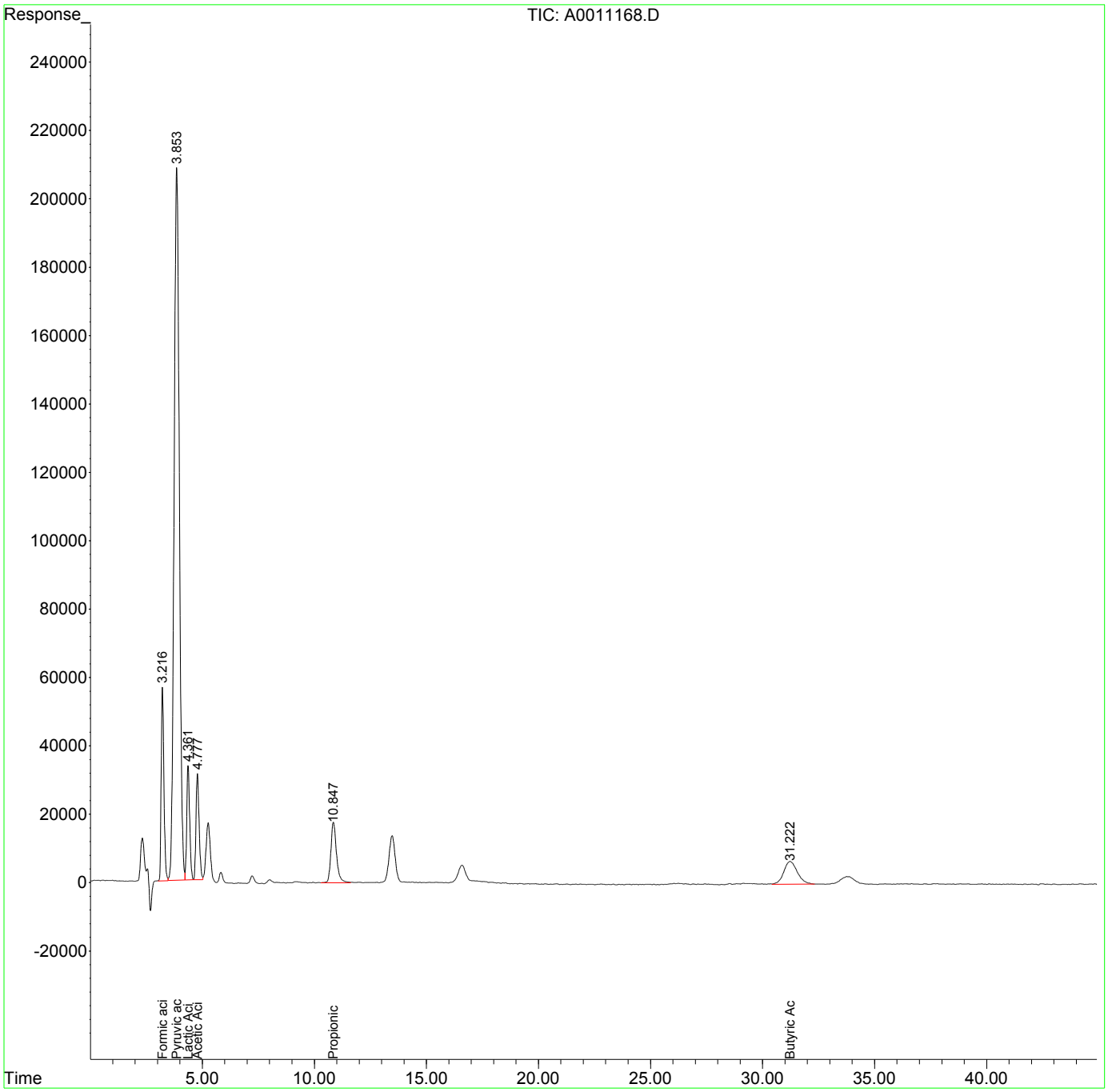
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011168.D
Signal(s) : dad1A.ch
Acq On : 21-Feb-2024, 21:19:10
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 10:01:38 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 10:00:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

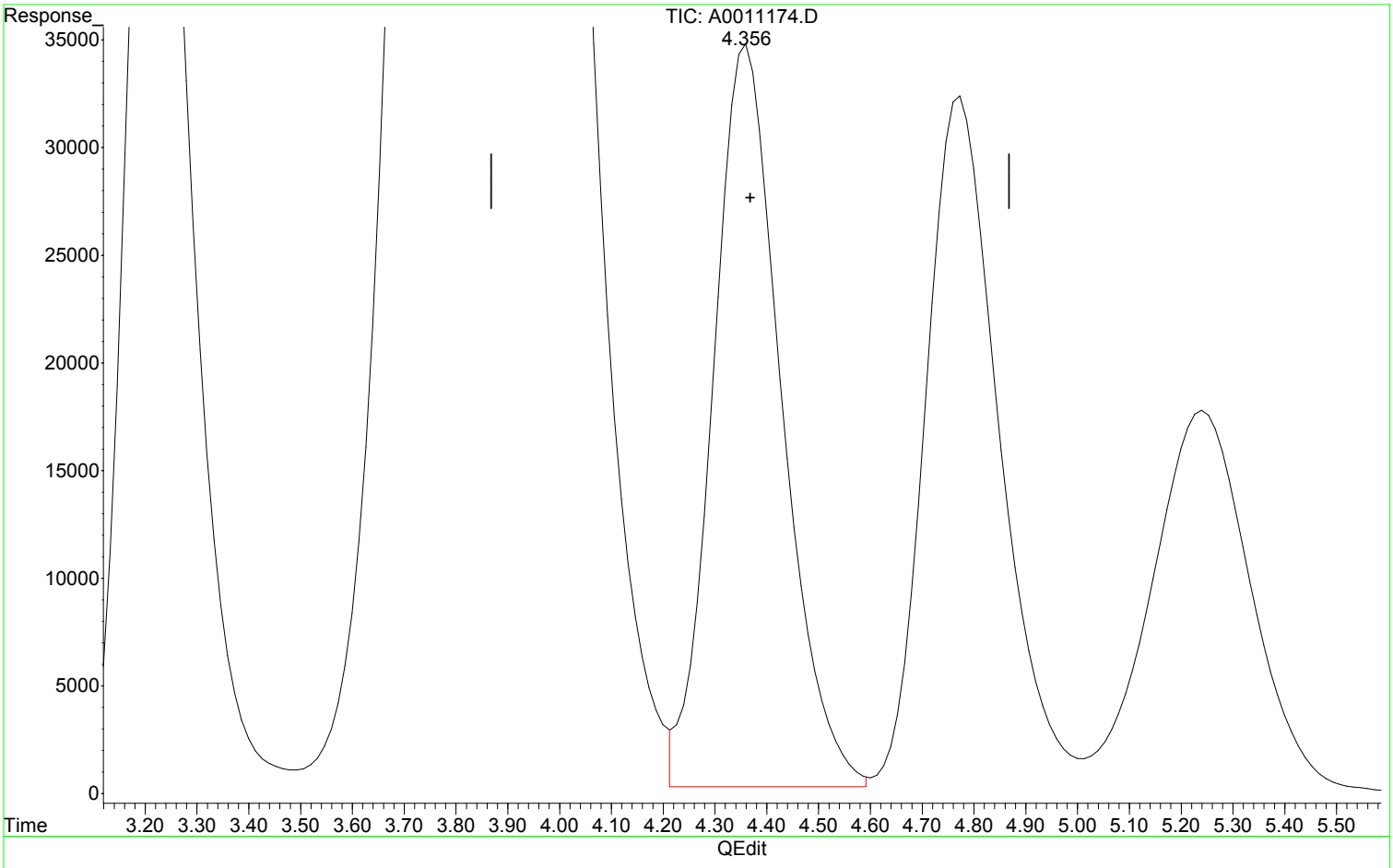


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011174.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 02:48:20
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:25 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)

4.356min 47.485 ppm m

response 3176449

Manual Integration:

After

Poor integration.

02/23/24

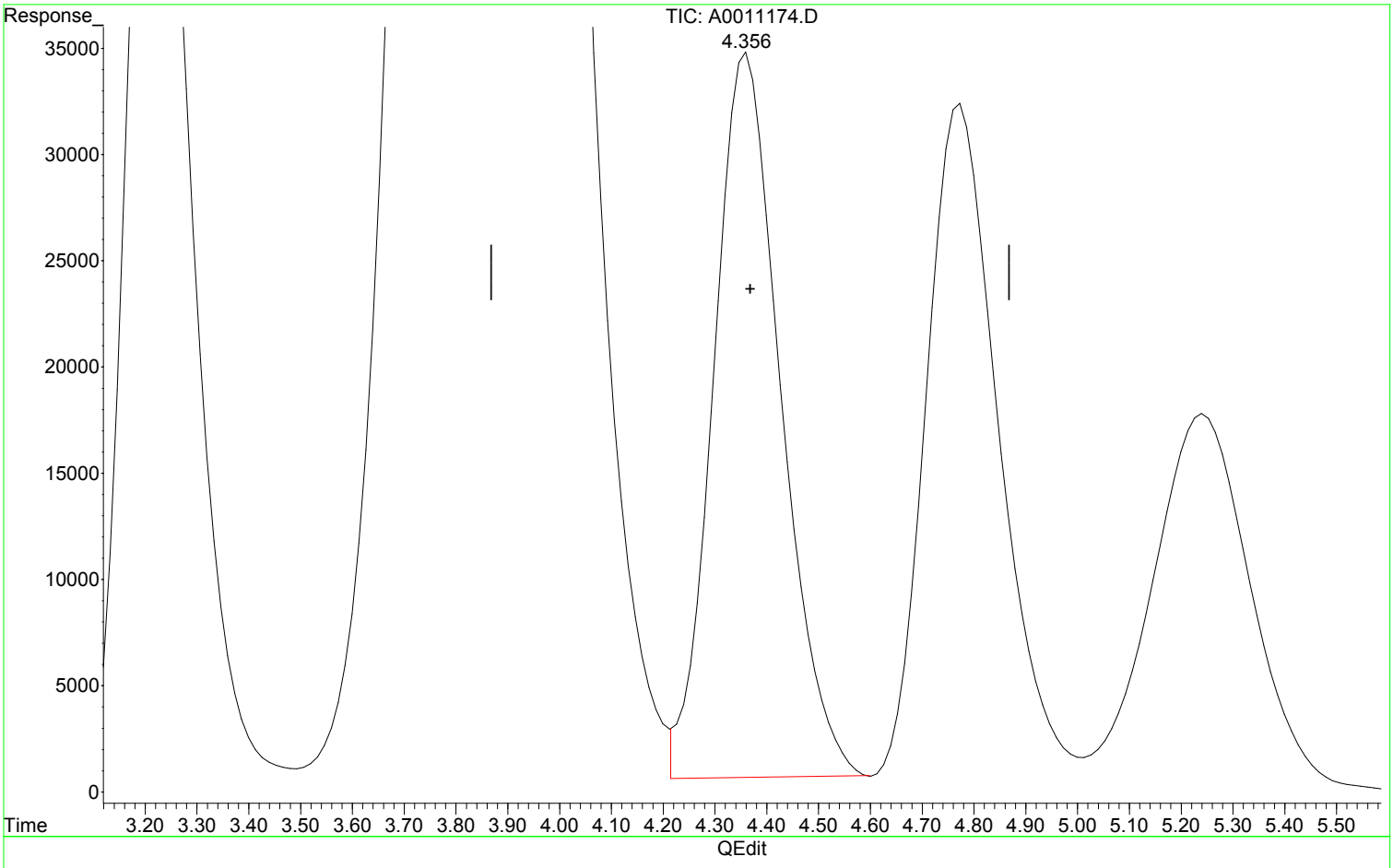
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011174.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 02:48:20
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:25 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)

4.363min 46.245 ppm

response 3093558

Manual Integration:

Before

02/23/24

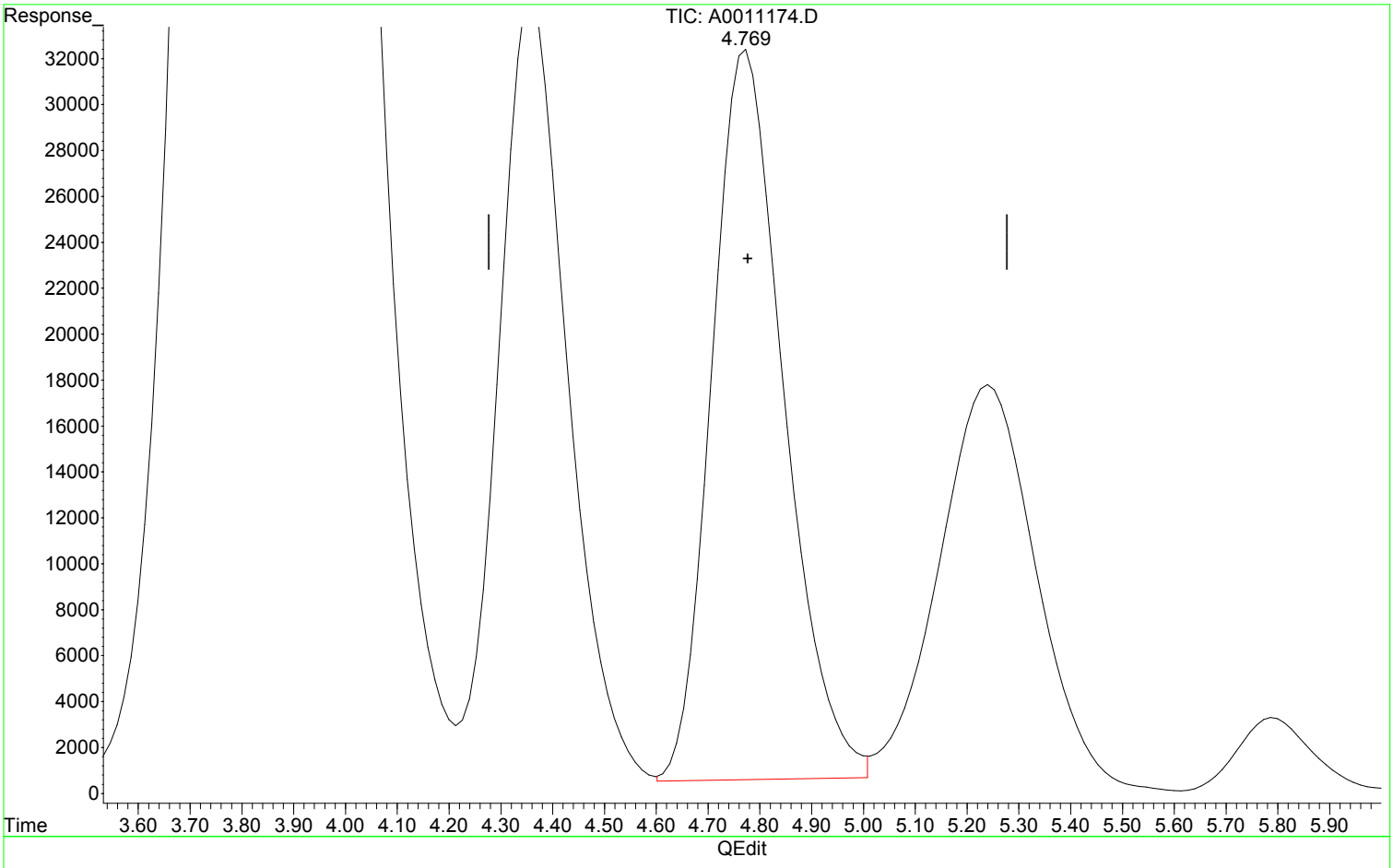
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011174.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 02:48:20
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:25 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.769min 48.598 ppm m

response 3074019

Manual Integration:

After

Poor integration.

02/23/24

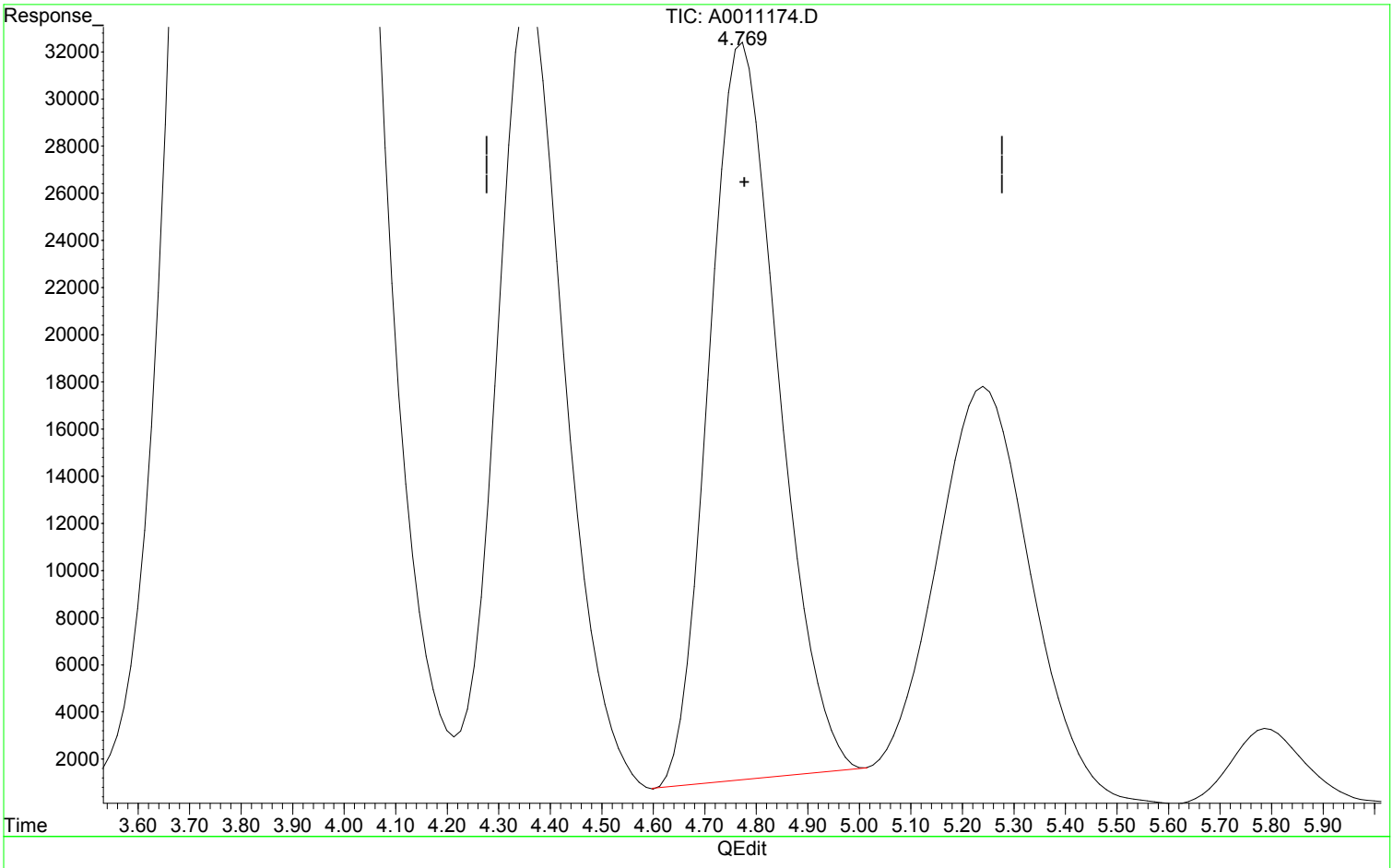
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011174.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 02:48:20
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:25 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.775min 46.350 ppm

response 2931866

Manual Integration:

Before

02/23/24

(+) = Expected Retention Time

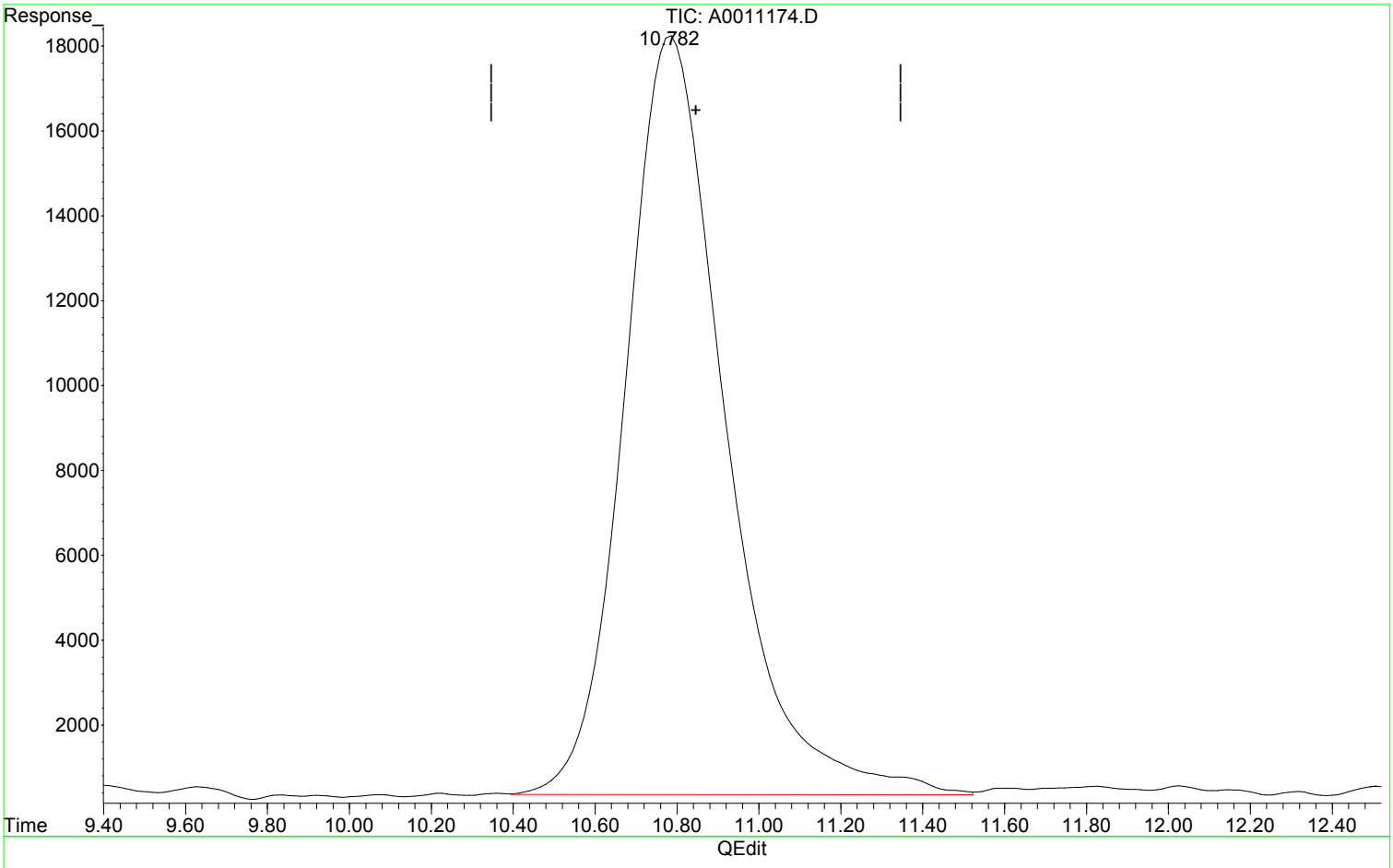
1st 02/23/24
2nd AF 02/27/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011174.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 02:48:20
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:25 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.782min 49.218 ppm m

response 3048474

Manual Integration:

After

Poor integration.

02/23/24

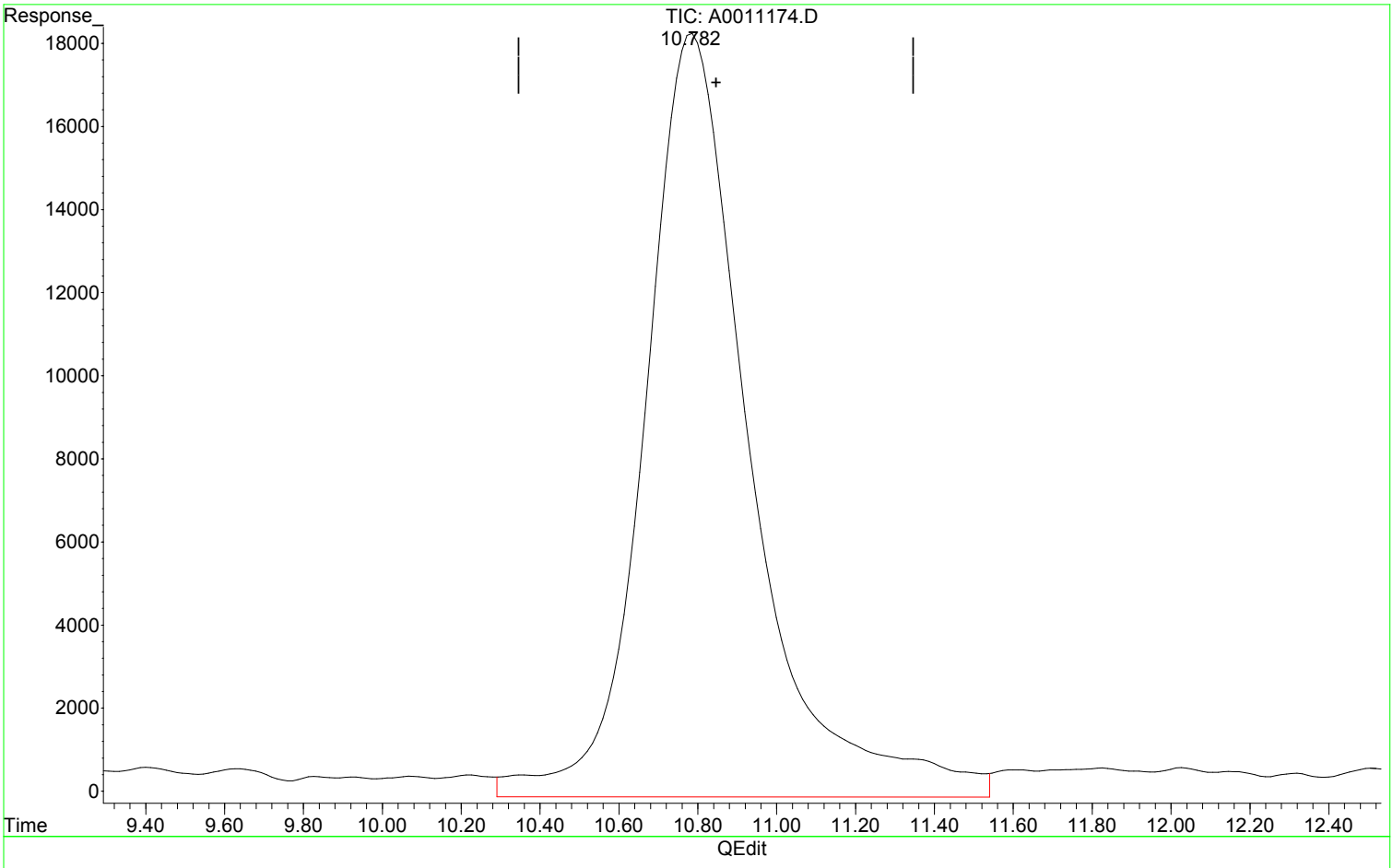
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011174.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 02:48:20
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:25 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.788min 55.290 ppm

response 3424575

Manual Integration:

Before

02/23/24

(+) = Expected Retention Time

1st 02/23/24
2nd 02/27/24

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011174.D
Signal(s) : dad1A.ch Wrong date/time 02:00:28 02/22/24
Acq On : ~~30-Dec-2000, 02:48:20~~ KP 2/26/24
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:25 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 t	Formic acid	99.603	95.532 E3	4.1	101	0.00
2 T	Pyruvic acid	636.290	679.485 E3	-6.8	109	0.00
3 T	Lactic Acid	66.894	63.529 E3	5.0	105	-0.01
4 T	Acetic Acid	63.255	61.480 E3	2.8	101	0.00
5 T	Propionic Acid	61.938	60.969 E3	1.6	101	-0.06
6 T	Butyric Acid	57.197	58.820 E3	-2.8	102	-0.27

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

1st KP 02/23/24
2nd AF 02/27/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011174.D
Signal(s) : dad1A.ch Wrong date/time 02:00:28 02/22/24
Acq On : ~~30-Dec-2000, 02:48:20~~ KP 2/26/24
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:25 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.224	4776589	47.956	ppm	
2) T	Pyruvic acid	3.861	33974253	53.394	ppm	
3) T	Lactic Acid	4.356	3176449	47.485	ppm	m
4) T	Acetic Acid	4.769	3074019	48.598	ppm	m
5) T	Propionic Acid	10.782	3048474	49.218	ppm	m
6) T	Butyric Acid	30.957	2940979	51.419	ppm	

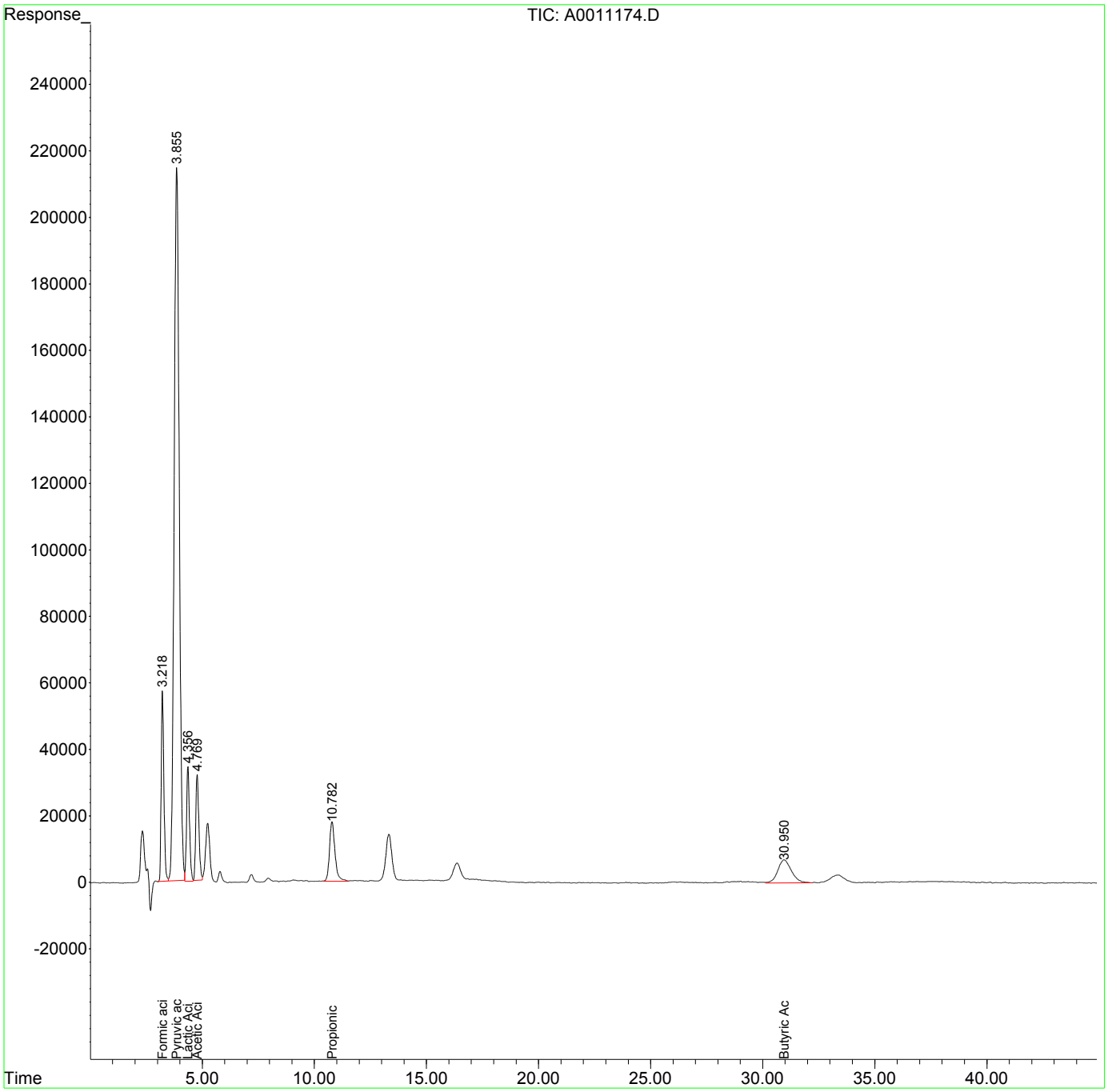
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011174.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 02:48:20
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:01:25 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:00:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



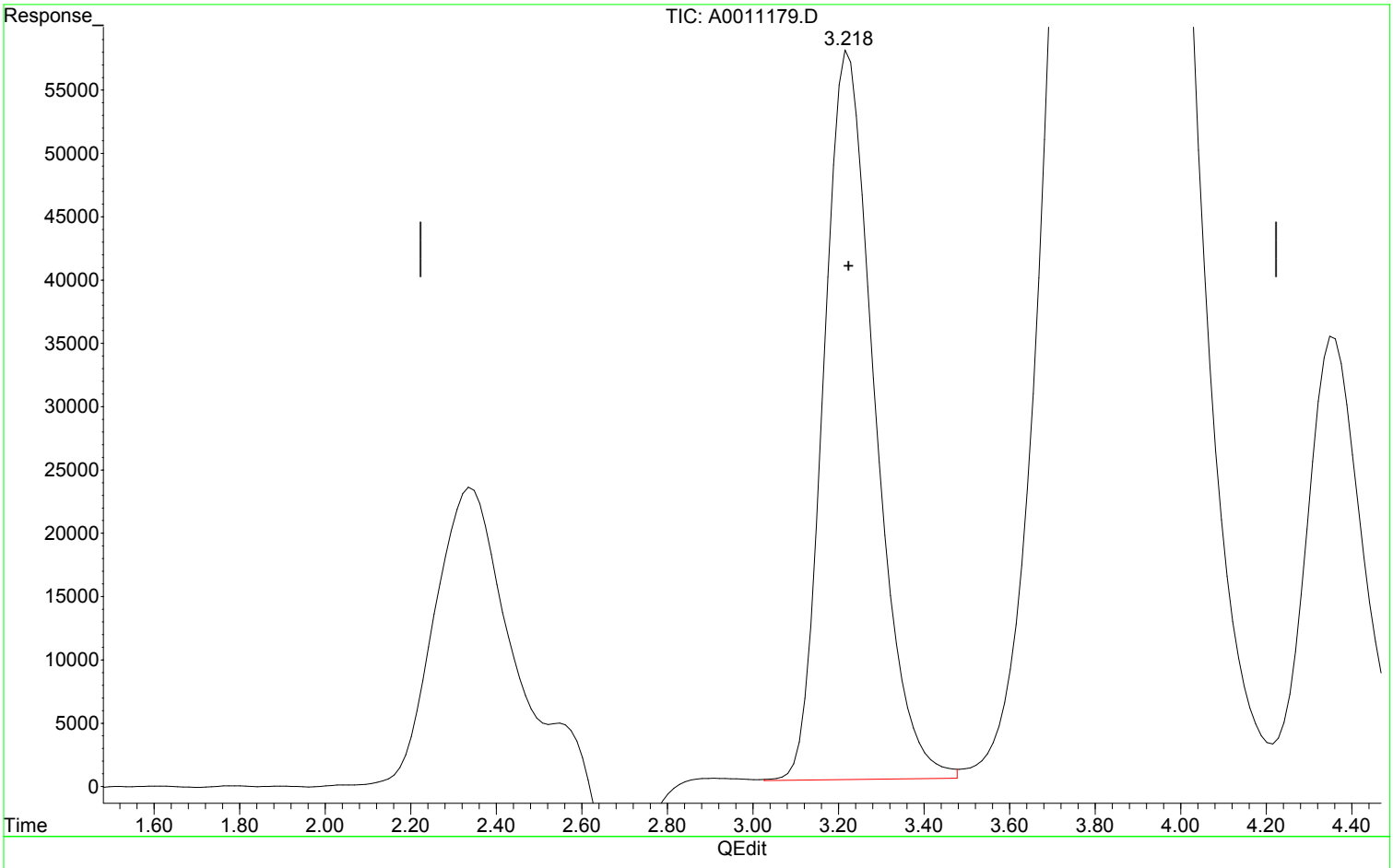
1st 02/23/24
2nd 02/27/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011179.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 05:58:39
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:15:30 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:15:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)

3.218min 47.970 ppm m

response 4777966

Manual Integration:

After

Poor integration.

02/23/24

(+) = Expected Retention Time

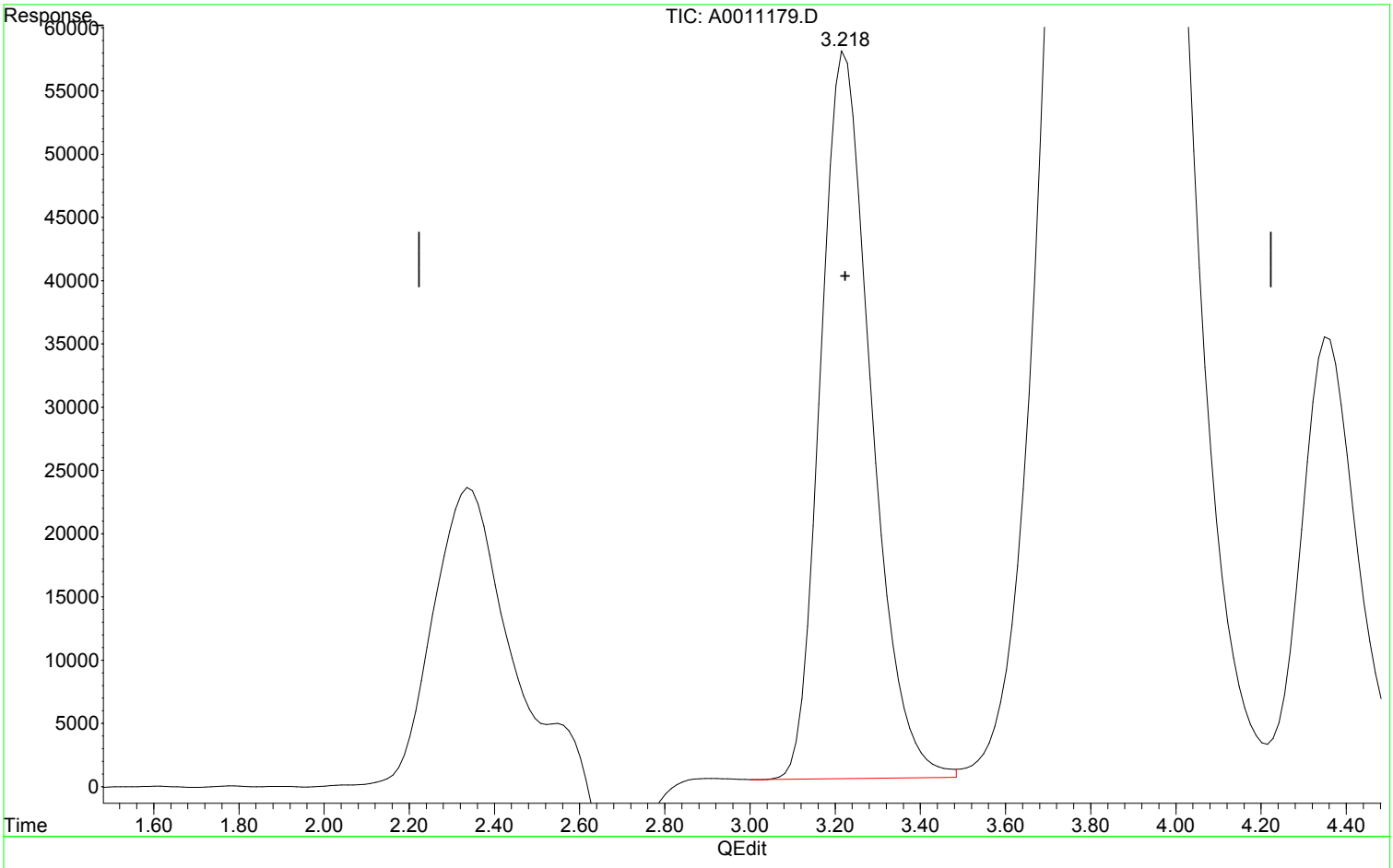
1st 02/23/24
2nd 02/27/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011179.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 05:58:39
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:15:30 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:15:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)

3.225min 47.763 ppm

response 4757278

Manual Integration:

Before

02/23/24

(+) = Expected Retention Time

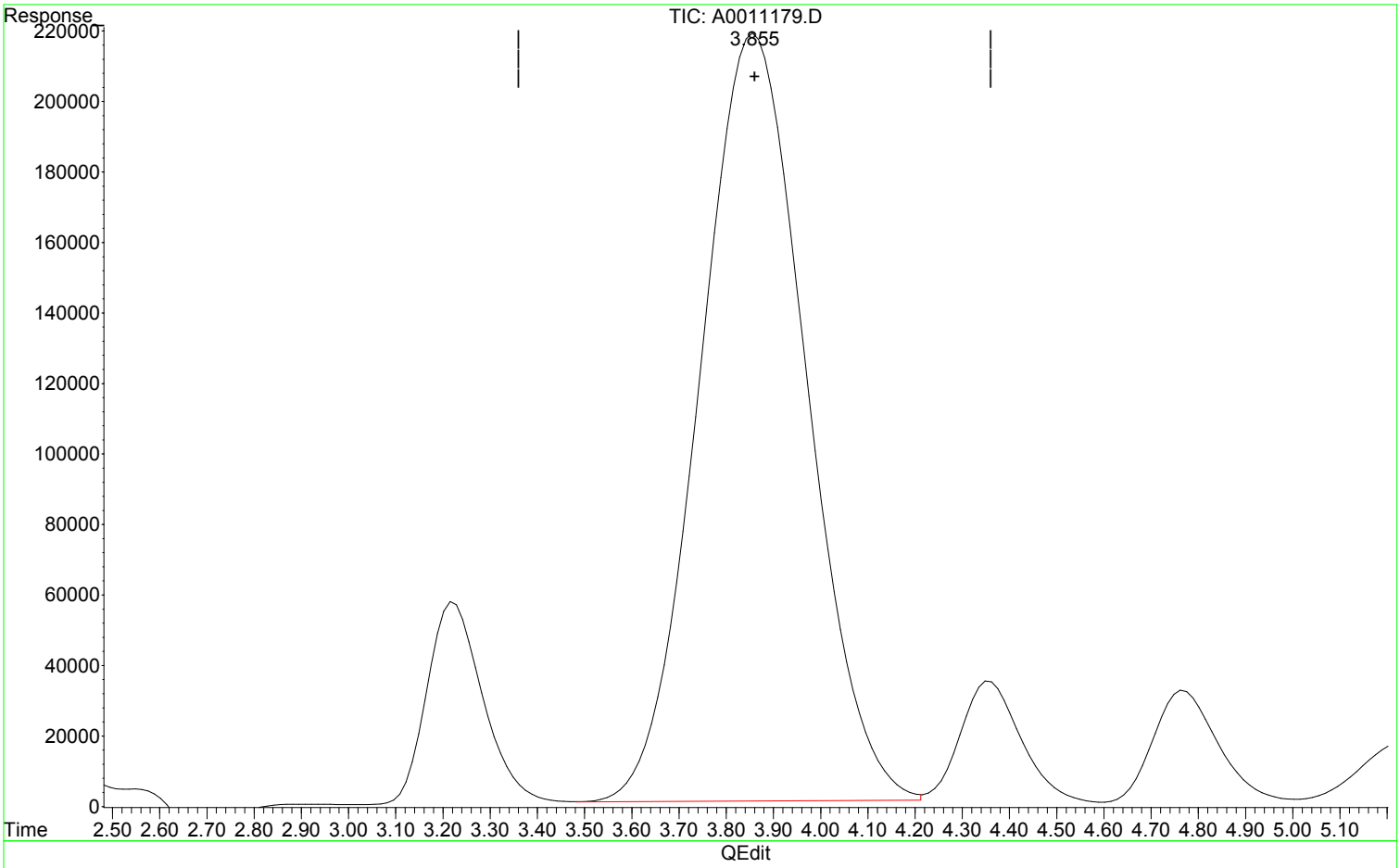
1st 02/23/24
2nd AF 02/27/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011179.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 05:58:39
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:15:30 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:15:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(2) Pyruvic acid (T)

3.855min 53.553 ppm m

response 34075112

Manual Integration:

After

Poor integration.

02/23/24

(+) = Expected Retention Time

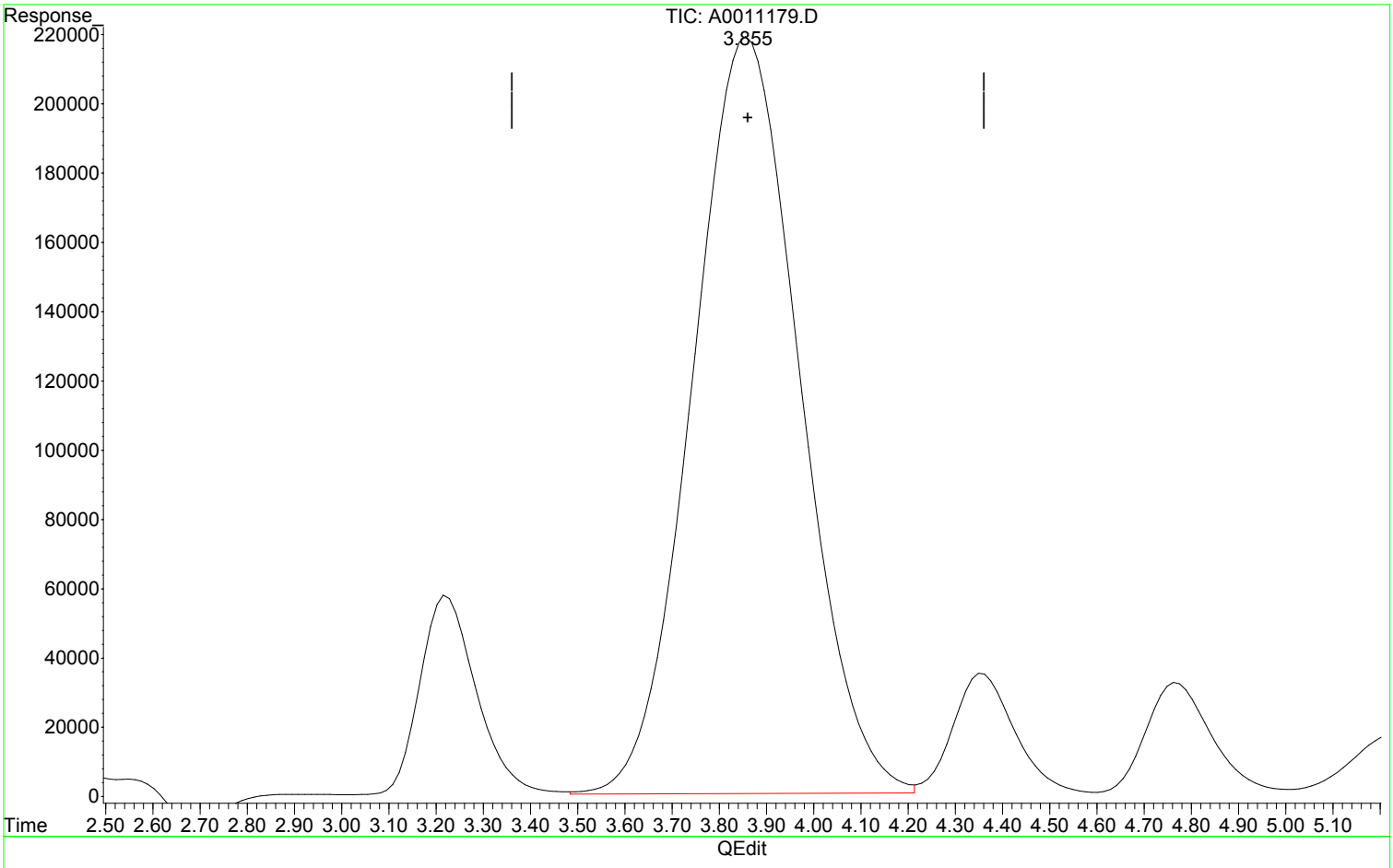
1st 02/23/24
2nd 02/27/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011179.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 05:58:39
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:15:30 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:15:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(2) Pyruvic acid (T)

3.860min 54.024 ppm

response 34374839

Manual Integration:

Before

02/23/24

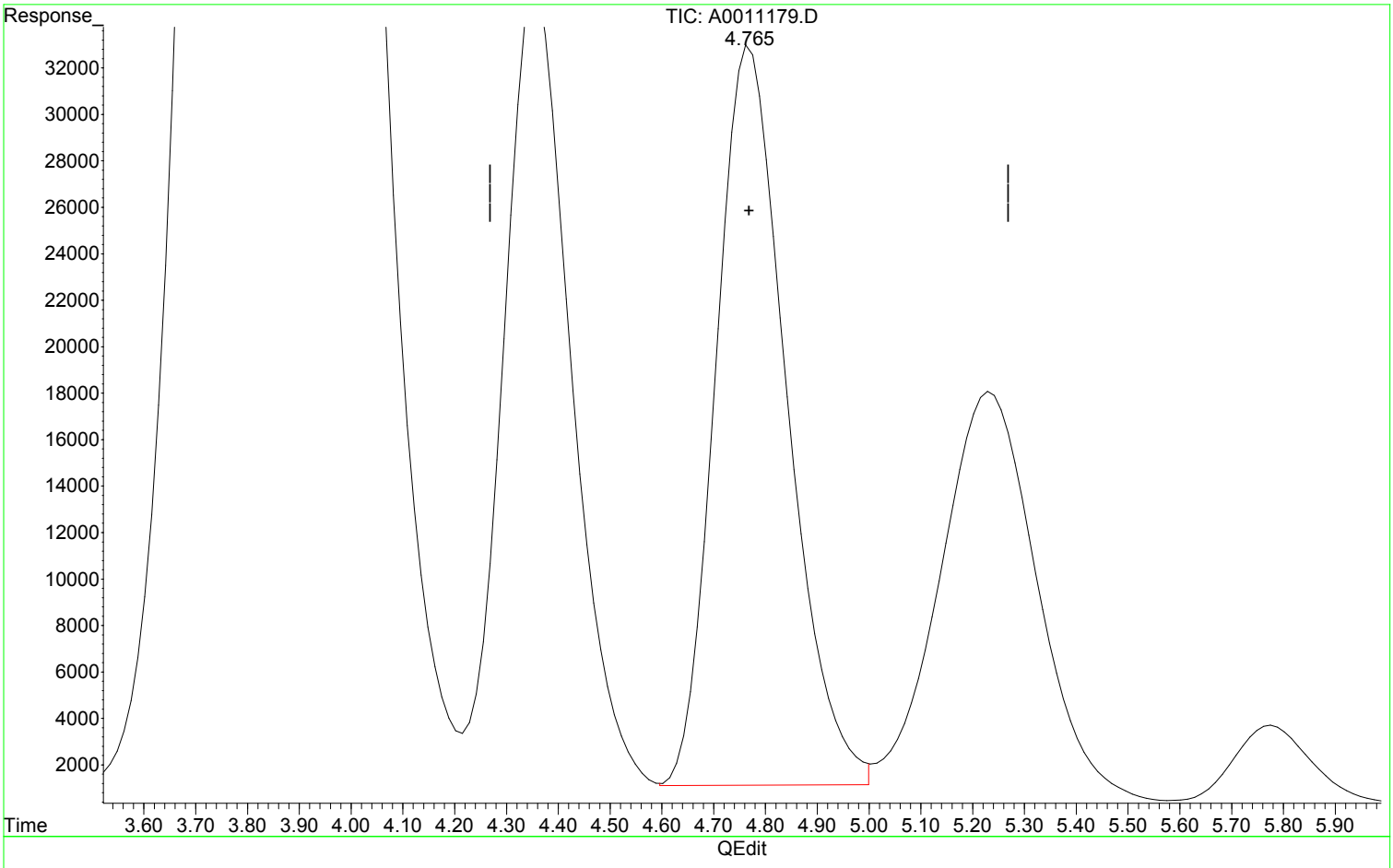
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011179.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 05:58:39
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:15:30 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:15:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.765min 47.949 ppm m

response 3033025

Manual Integration:

After

Poor integration.

02/23/24

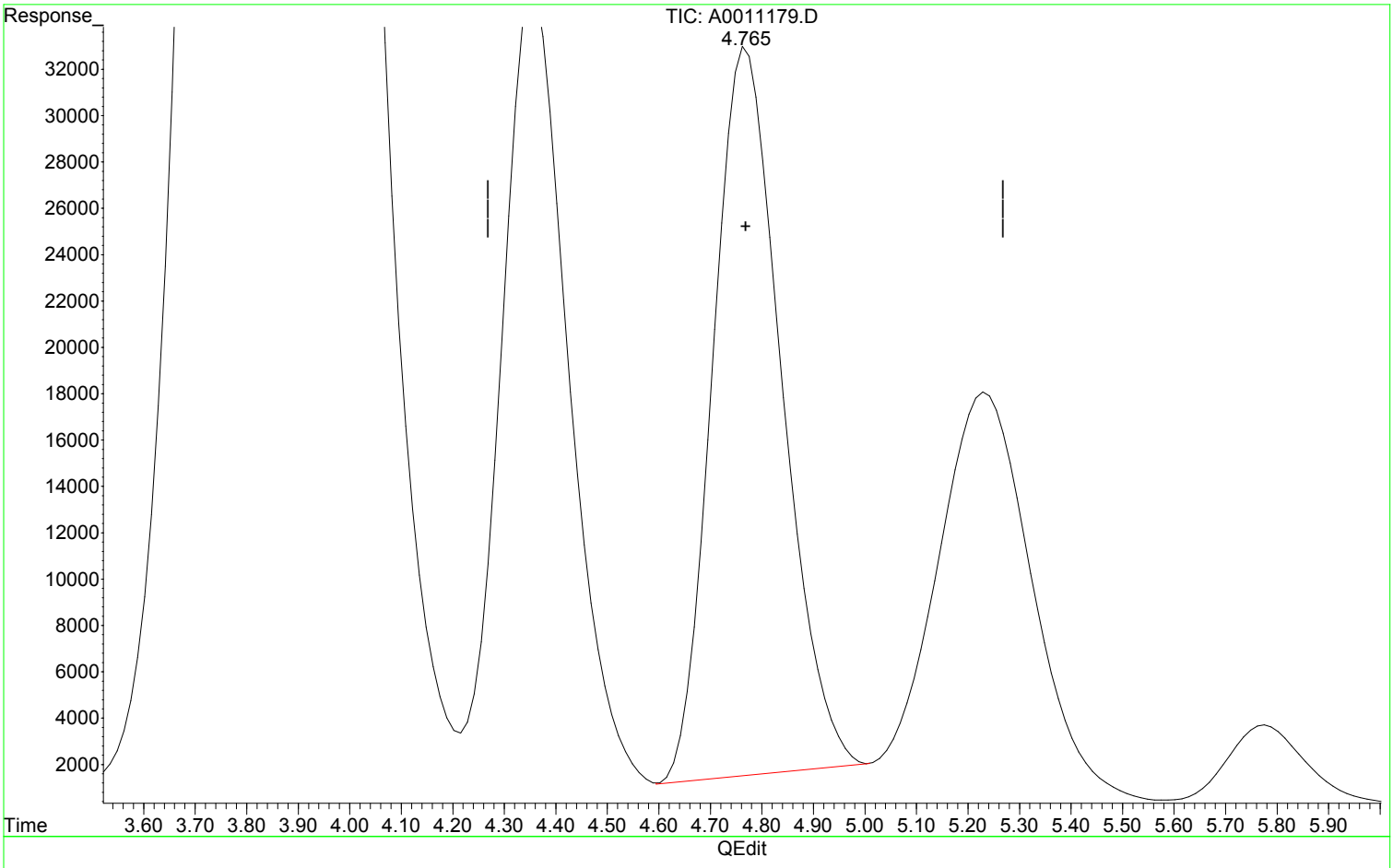
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011179.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 05:58:39
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:15:30 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:15:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.772min 46.220 ppm

response 2923605

Manual Integration:

Before

02/23/24

(+) = Expected Retention Time

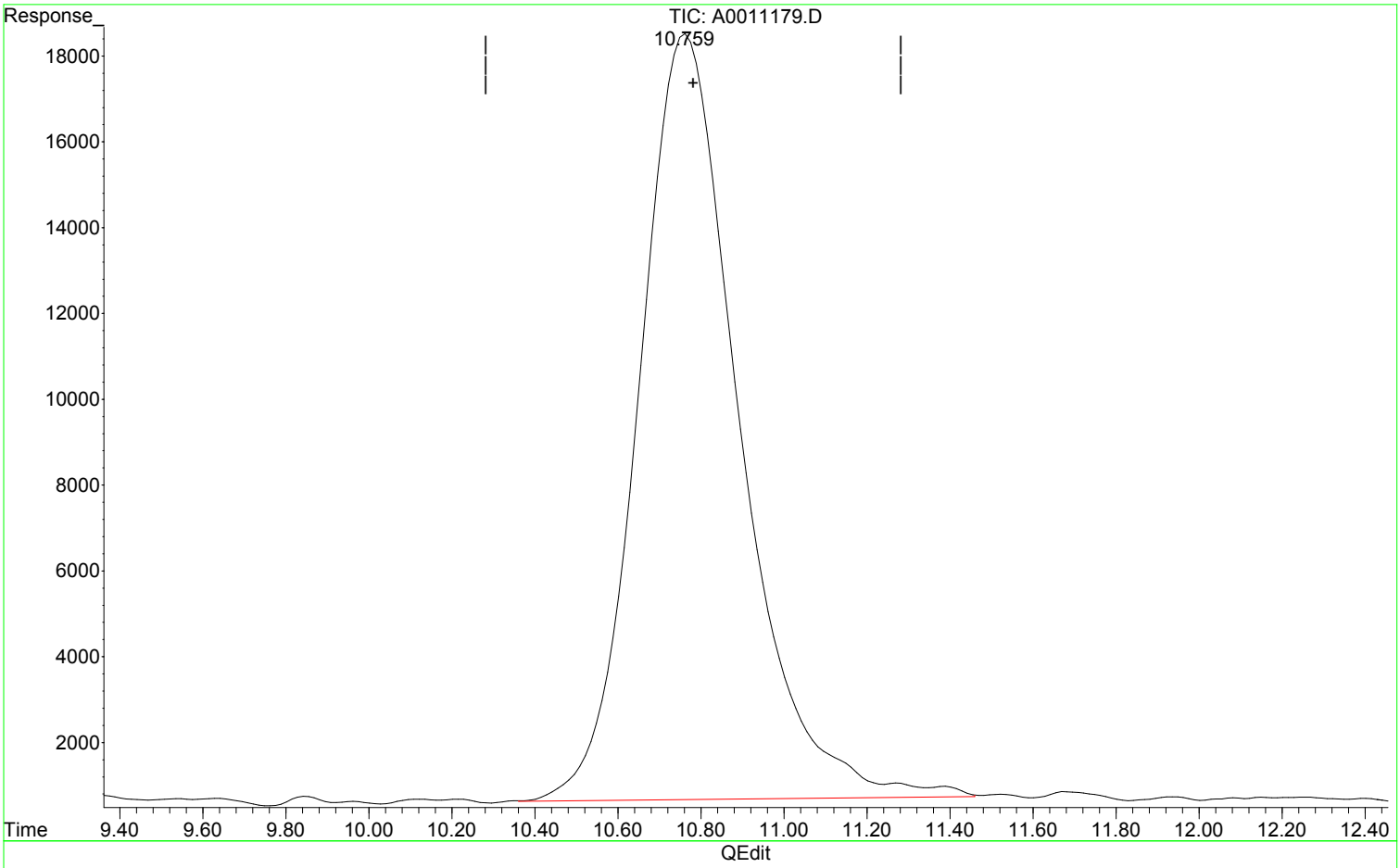
1st 02/23/24
2nd 02/27/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011179.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 05:58:39
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:15:30 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:15:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.759min 48.410 ppm m

response 2998450

Manual Integration:

After

Poor integration.

02/23/24

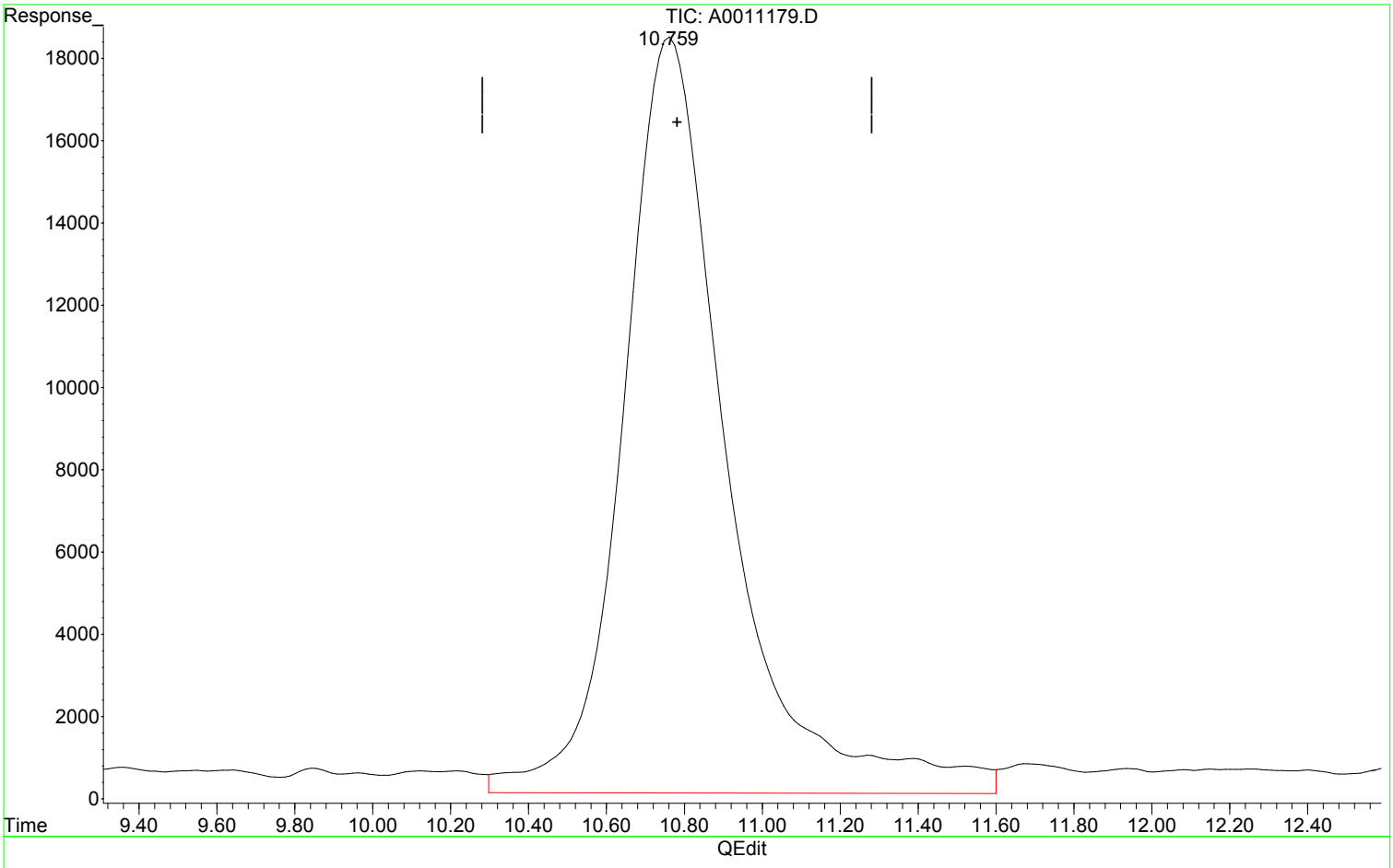
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011179.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 05:58:39
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:15:30 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:15:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

10.765min 55.339 ppm

response 3427640

Manual Integration:

Before

02/23/24

(+) = Expected Retention Time

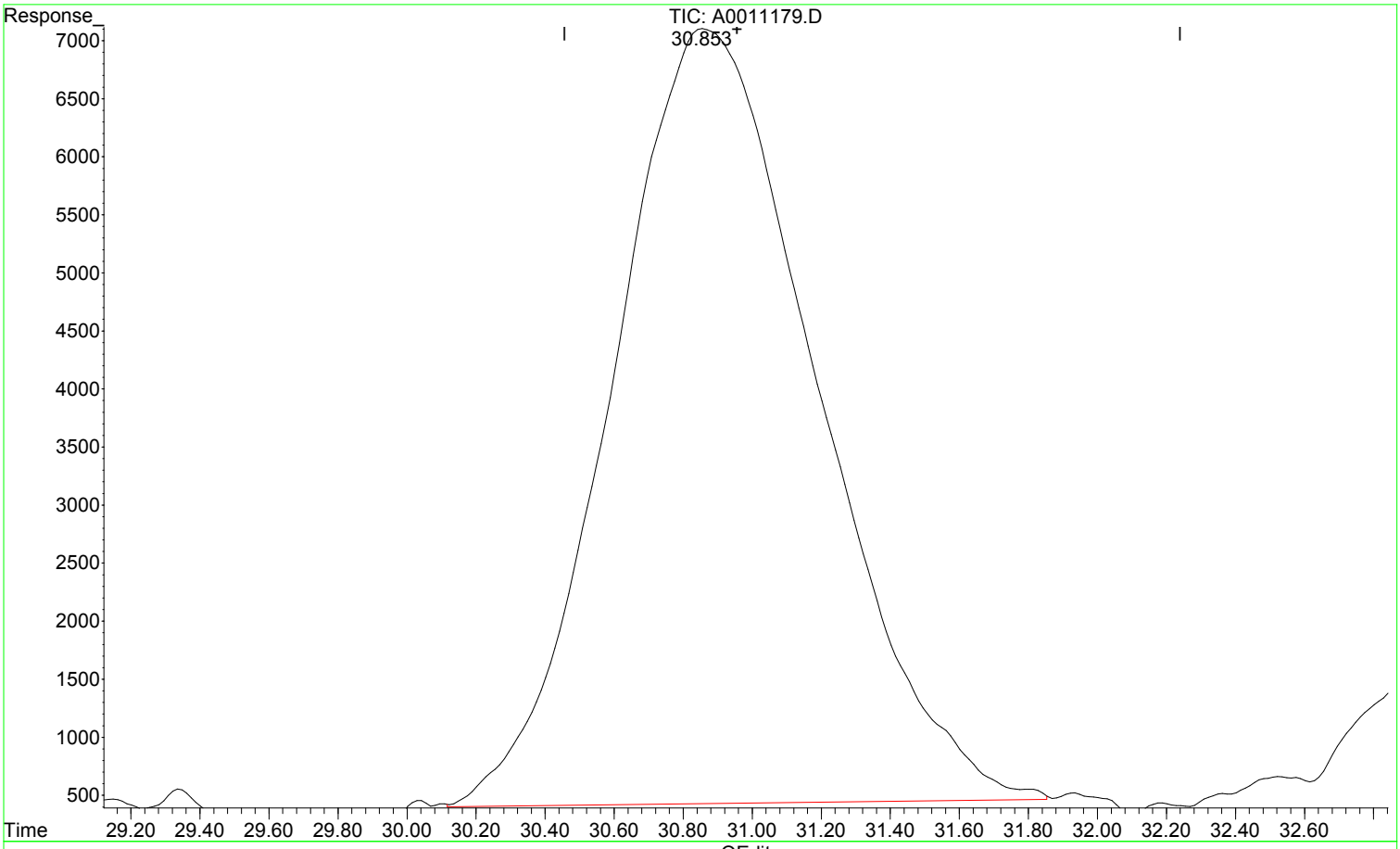
1st 02/23/24
2nd AF 02/27/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011179.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 05:58:39
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:15:30 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:15:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

30.853min 47.819 ppm m

response 2735091

Manual Integration:

After

Poor integration.

02/23/24

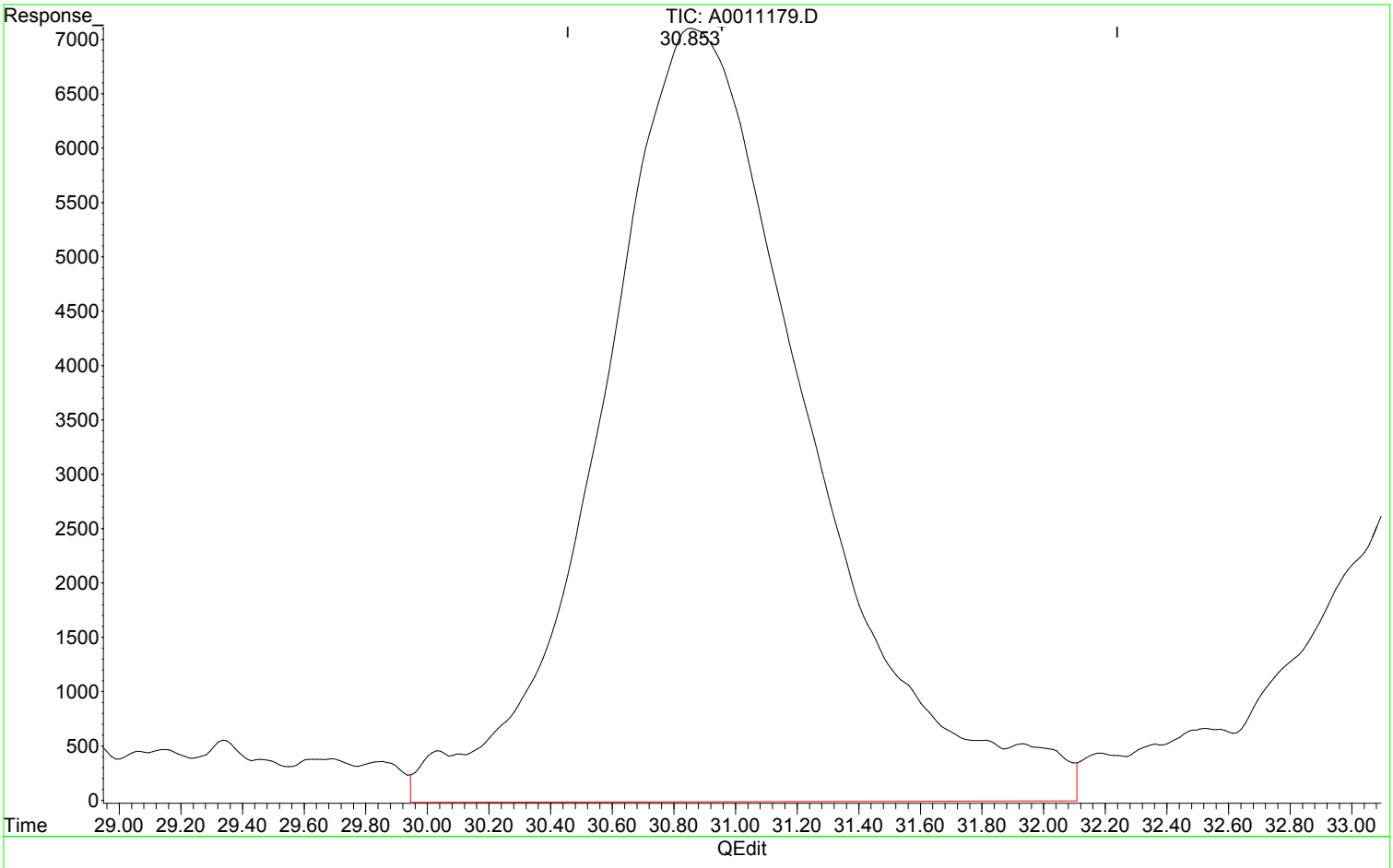
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011179.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 05:58:39
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:15:30 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:15:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

30.867min 57.897 ppm

response 3311505

Manual Integration:

Before

02/23/24

(+) = Expected Retention Time

1st 02/23/24
2nd 02/27/24

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011179.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 05:58:39
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:15:30 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:15:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 t	Formic acid	99.603	95.559 E3	4.1	101	0.00
2 T	Pyruvic acid	636.290	681.502 E3	-7.1	109	0.00
3 T	Lactic Acid	66.894	62.185 E3	7.0	103	0.00
4 T	Acetic Acid	63.255	60.660 E3	4.1	100	0.00
5 T	Propionic Acid	61.938	59.969 E3	3.2	99	-0.02
6 T	Butyric Acid	57.197	54.702 E3	4.4	95	-0.10

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

1st 02/23/24
2nd 02/27/24

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011179.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 05:58:39
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:15:30 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:15:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.218	4777966	47.970	ppm	m
2) T	Pyruvic acid	3.855	34075112	53.553	ppm	m
3) T	Lactic Acid	4.360	3109236	46.480	ppm	
4) T	Acetic Acid	4.765	3033025	47.949	ppm	m
5) T	Propionic Acid	10.759	2998450	48.410	ppm	m
6) T	Butyric Acid	30.853	2735091	47.819	ppm	m

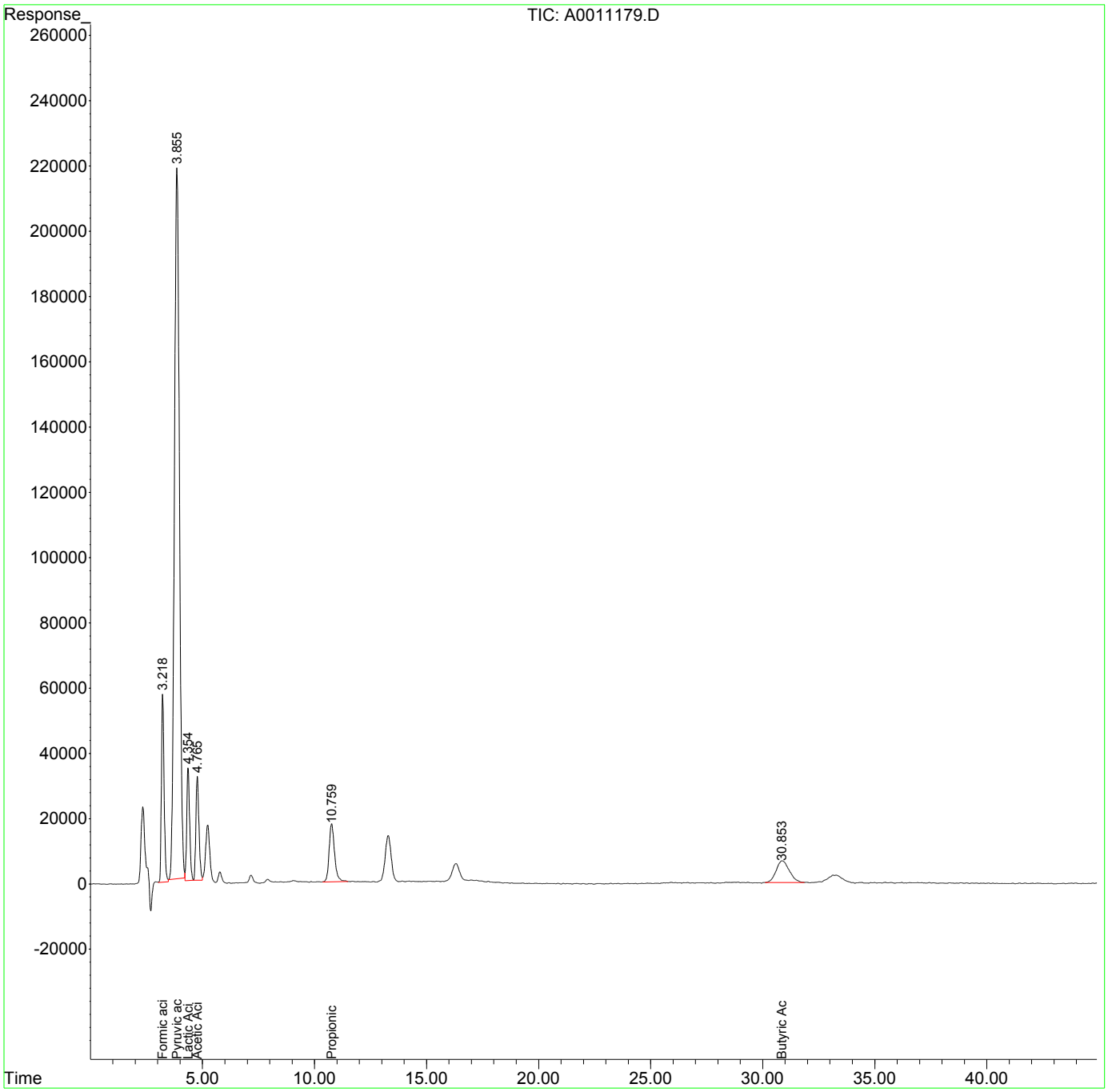
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\022124\
Data File : A0011179.D
Signal(s) : dad1A.ch
Acq On : 22-Feb-2024, 05:58:39
Operator : KProcopio
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 23 12:15:30 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Fri Feb 23 12:15:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



Metabolic Acids | Analyst: EDeGroot | Run Method: NEWMETA

Instrument: R-HPLC-05 | Date: 2/6/24 | Quant Method: MA0002D624.M

ICAL: RC 2400089 | LIMS Run#: 831793

Setup: Column: Synergy | Col.Temp: 35°C | Flow: 0.6mL/min

Mobile Phase: 0.02M KH_2PO_4 in 0.1M H_3PO_4 | ul Inj.: 50µL

Mobile Phase ID: 232089

Pos.	Sample	Diln.*	Stds. ID	pH	Filtered	File#	OK?	Comments
1	Blank			<2	N	A0011088	Y	
↓	↓					-089		
2	Inst Blank					-090		
3	0.2 STD	100µL/1mL	2STD			-091		
4	0.1 STD	100µL/1mL	1STD			-092		
5	1 STD	1µL/1mL	231674			-093		
6	2STD	2µL/1mL				-094		
7	5STD	5µL/1mL				-095		
8	10STD	10µL/1mL				-096		
9	20 STD	20µL/1mL				-097		
10	50 STD	50µL/1mL				-098		
11	100 STD	100µL/1mL				-099		
12	200 STD	200µL/1mL	↓			-100		
13	ICV	50µL/1mL	232600			-101		
14	CCV	50µL/1mL	231674			-102		
15	MB					-103		
16	LCS	20µL/1mL	232600			-104		
17	DLCS	↓	↓			-105		
18	R2400693-001					-106		
19	-001MS	20µL/1mL	232600			-107		
19	CCV	50µL/1mL	231674			-108		
20	R2400693-001DMS	20µL/1mL	232600			-109		
21	R2400722-001					-110		
22	R2400866-001					-111		
23	R2400867-001					-112		
19	CCV	50µL/1mL	231674	↓	↓	-113	↓	

Primary: 231674 exp: 2/29/24 | Secondary: 232600 Exp: 4/7/24

pH Paper: Hydrion | Acidified DI: 232944 | Filters: NA

MB is Acidified DI

*Notation for standards is Amount of Standard/Final Volume with Acidified DI.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011101.D Wrong date/time, EDG 2/8/24
Signal(s) : dad1A.ch
Acq On : ~~30-Dec-2000, 09:48:00~~ 21:10:41 02/06/24
Operator : EDeGray
Sample : ICV
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:52:17 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:51:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.276	5062268	50.825	ppm	
2) T	Pyruvic acid	4.048	33758616	53.055	ppm	
3) T	Lactic Acid	4.602	3022945	45.190	ppm	
4) T	Acetic Acid	5.052	2914381	46.074	ppm	
5) T	Propionic Acid	12.196	2781733	44.911	ppm	m
6) T	Butyric Acid	36.907	2797488	48.910	ppm	

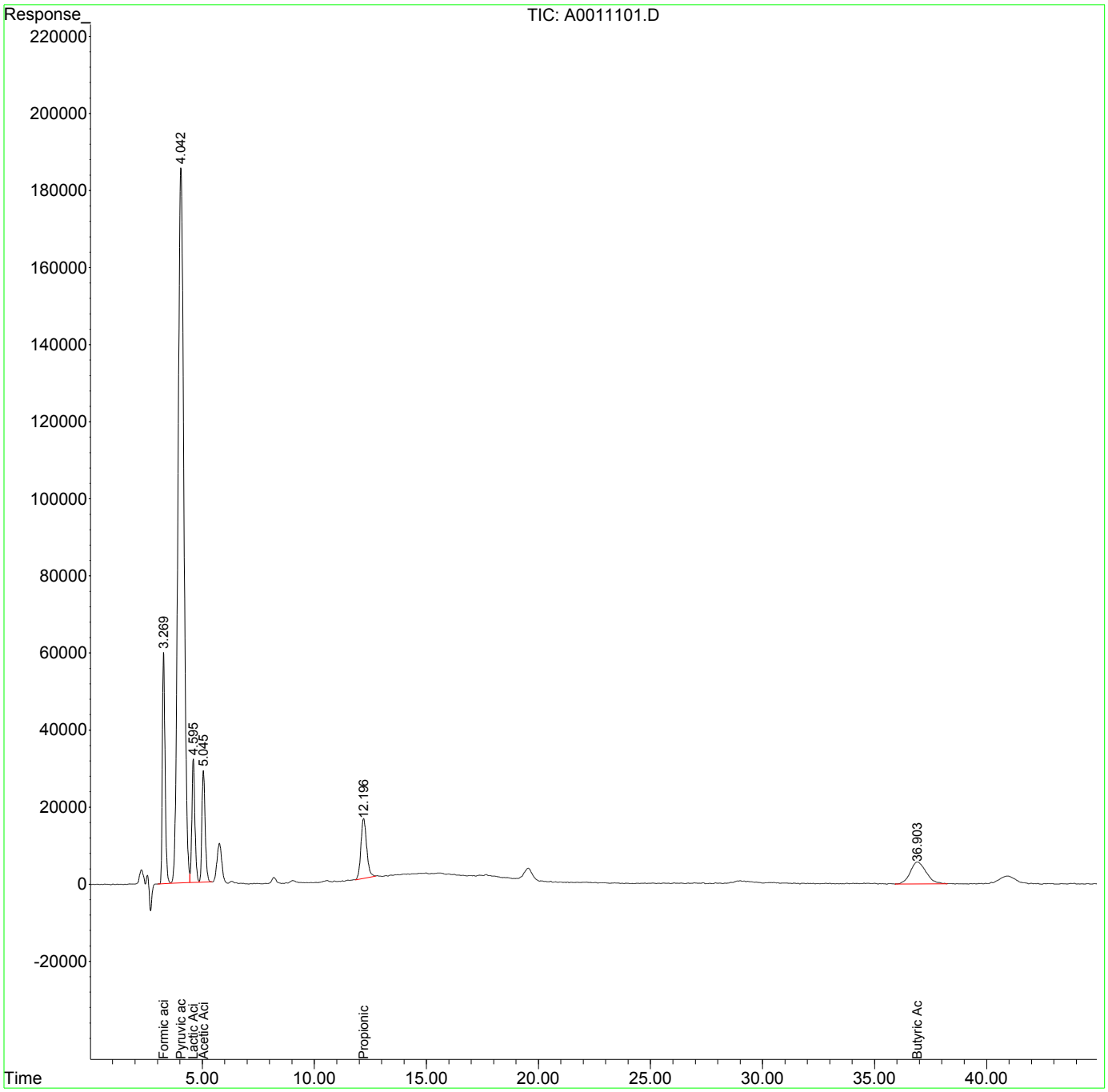
(f)=RT Delta > 1/2 Window (m)=manual int.

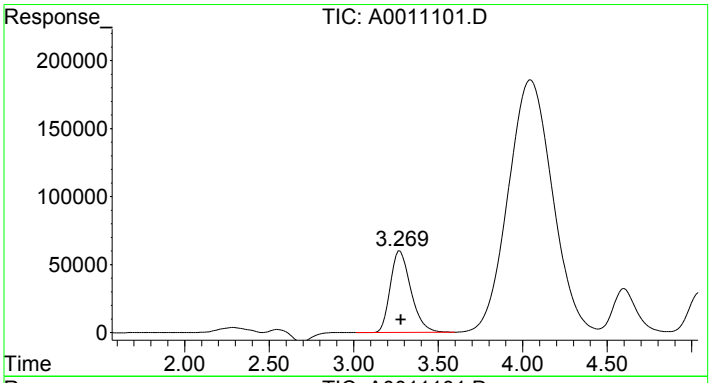
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011101.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 09:48:00
Operator : EDeGray
Sample : ICV
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:52:17 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:51:06 2024
Response via : Initial Calibration
Integrator: ChemStation

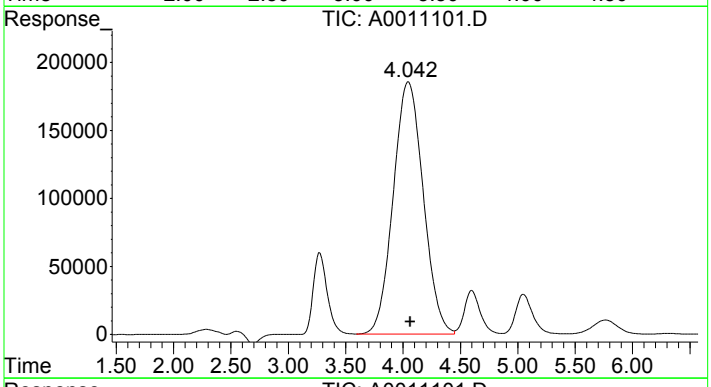
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





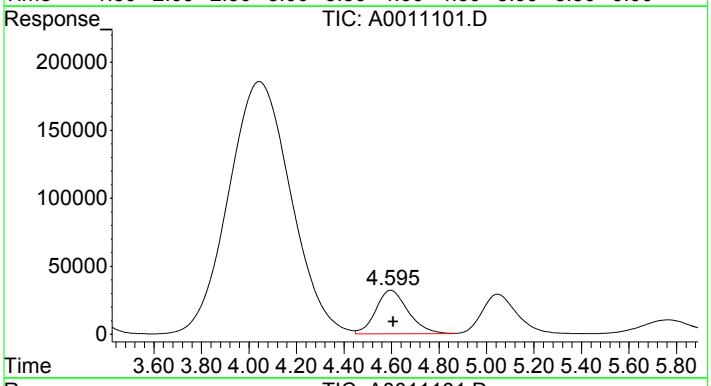
#1 Formic acid

R.T.: 3.276 min
Delta R.T.: -0.003 min
Response: 5062268
Conc: 50.82 ppm



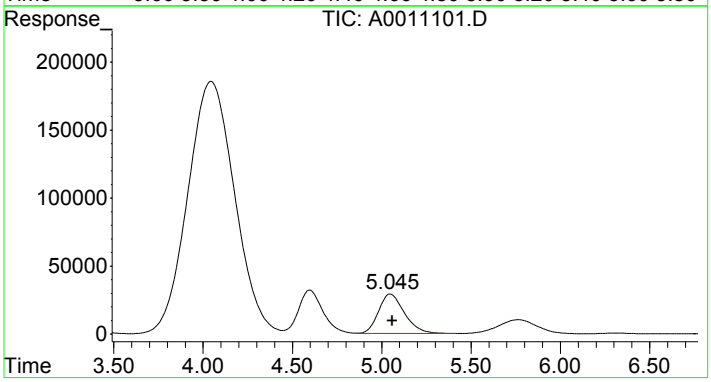
#2 Pyruvic acid

R.T.: 4.048 min
Delta R.T.: -0.016 min
Response: 33758616
Conc: 53.06 ppm



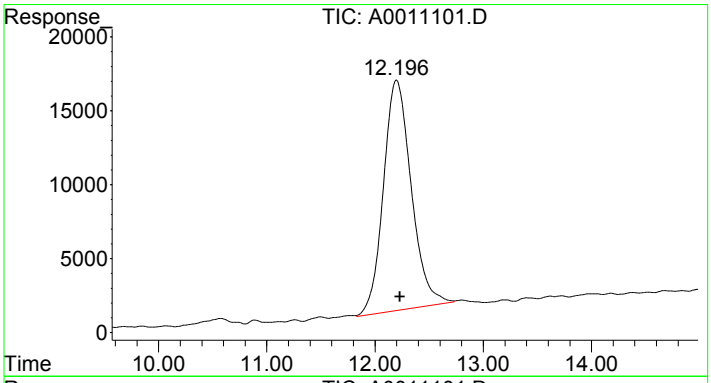
#3 Lactic Acid

R.T.: 4.602 min
Delta R.T.: -0.006 min
Response: 3022945
Conc: 45.19 ppm



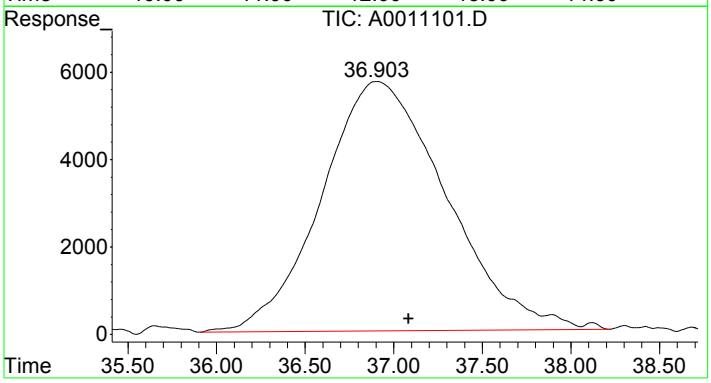
#4 Acetic Acid

R.T.: 5.052 min
Delta R.T.: -0.007 min
Response: 2914381
Conc: 46.07 ppm



#5 Propionic Acid

R.T.: 12.196 min
Delta R.T.: -0.034 min
Response: 2781733
Conc: 44.91 ppm m



#6 Butyric Acid

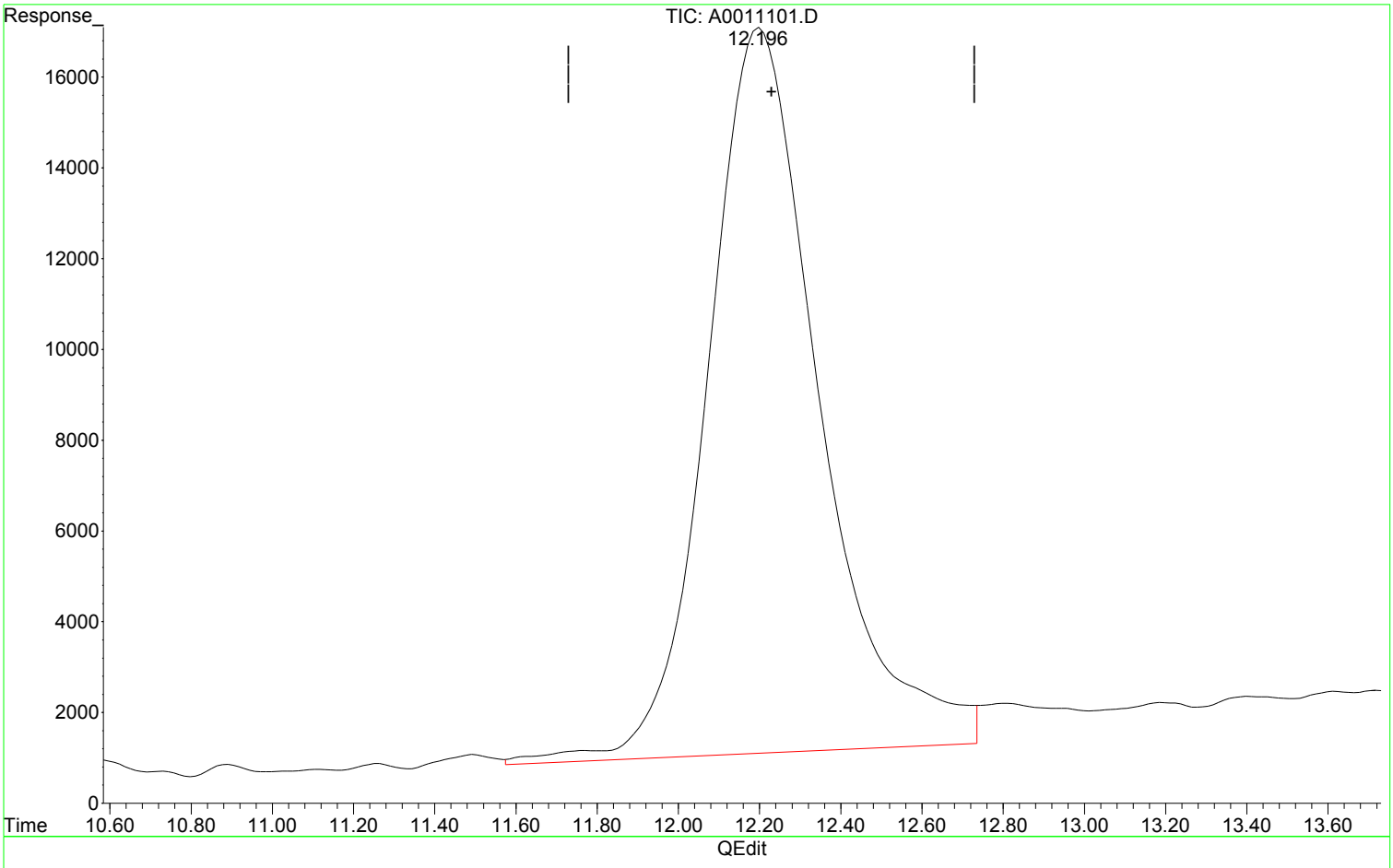
R.T.: 36.907 min
Delta R.T.: -0.176 min
Response: 2797488
Conc: 48.91 ppm

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011101.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 09:48:00
Operator : EDeGray
Sample : ICV
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:52:17 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:51:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

12.202min 49.261 ppm

response 3051137

Manual Integration:

Before

02/07/24

(+) = Expected Retention Time

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011101.D Wrong date/time, EDG 2/8/24
Signal(s) : dad1A.ch
Acq On : ~~30-Dec-2000, 09:48:00~~ 21:10:41 02/06/24
Operator : EDeGray
Sample : ICV
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:52:17 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:51:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 t	Formic acid	99.603	101.245 E3	-1.6	107	0.00
2 T	Pyruvic acid	636.290	675.172 E3	-6.1	108	-0.02
3 T	Lactic Acid	66.894	60.459 E3	9.6	100	0.00
4 T	Acetic Acid	63.255	58.288 E3	7.9	96	0.00
5 T	Propionic Acid	61.938	55.635 E3	10.2	92	-0.03
6 T	Butyric Acid	57.197	55.950 E3	2.2	97	-0.18

Evaluate Continuing Calibration Report - Not Founds

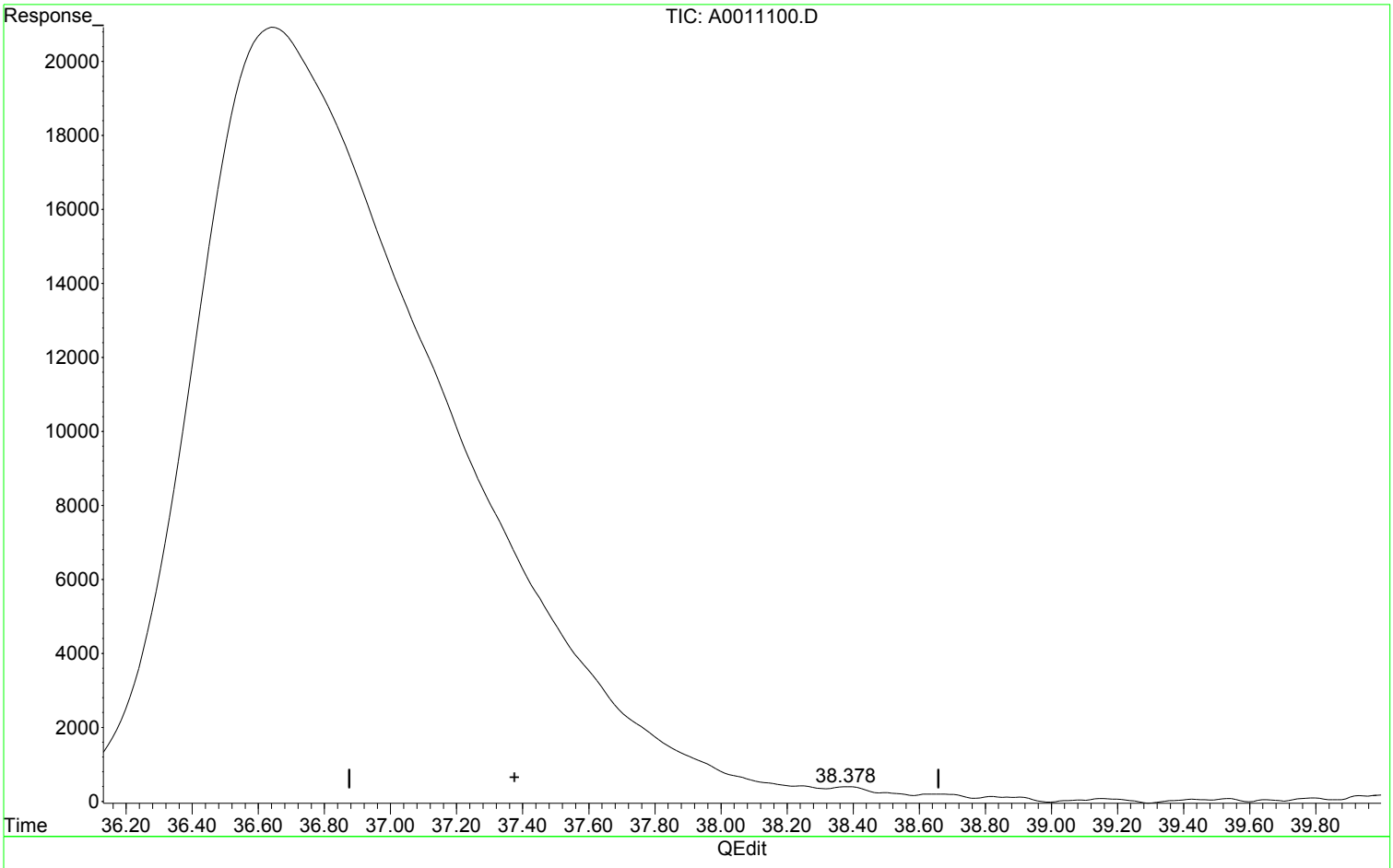
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011100.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:09:53
Operator : EDeGray
Sample : 200STD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:52 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

38.384min 1.093 ppm

response 124278

Manual Integration:

Before

02/07/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011100.D
Signal(s) : dad1A.ch
Wrong date/time, EDG 2/8/24
Acq On : ~~30-Dec-2000, 00:09:53~~ 20:23:23 02/06/24
Operator : EDeGray
Sample : 200STD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:52 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.279	18292150	96.982	ppm	
2) T	Pyruvic acid	4.049	120443111	96.093	ppm	
3) T	Lactic Acid	4.602	11937564	98.501	ppm	
4) T	Acetic Acid	5.049	11961661	95.606	ppm	
5) T	Propionic Acid	12.136	11437682	97.308	ppm	m
6) T	Butyric Acid	36.643f	11157120	98.084	ppm	m

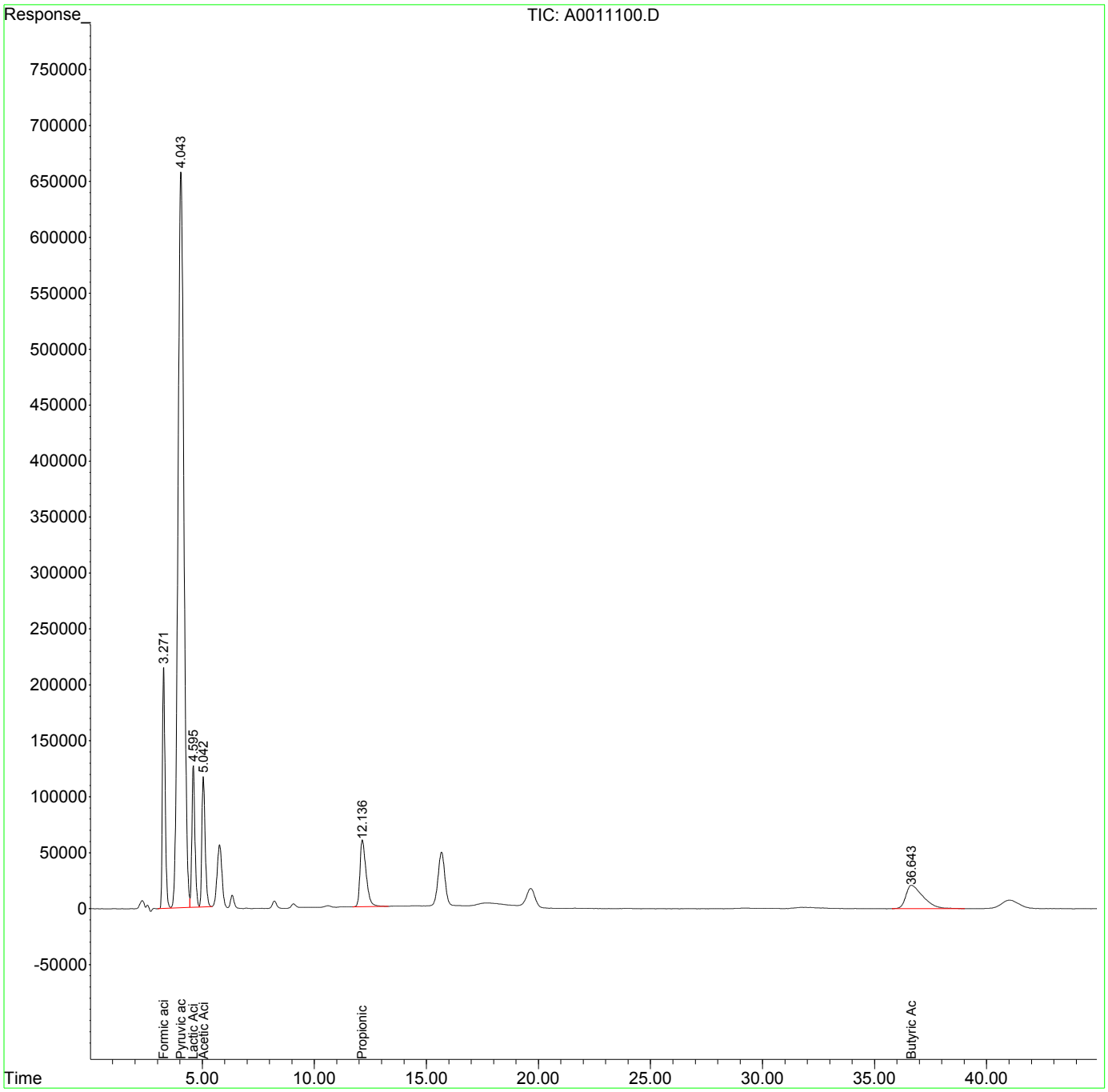
(f)=RT Delta > 1/2 Window (m)=manual int.

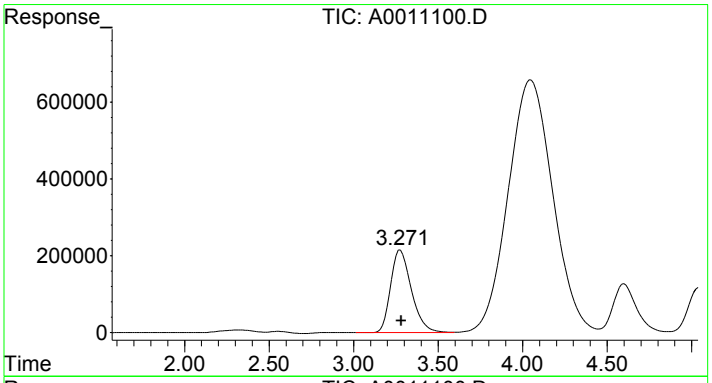
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011100.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:09:53
Operator : EDeGray
Sample : 200STD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:52 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

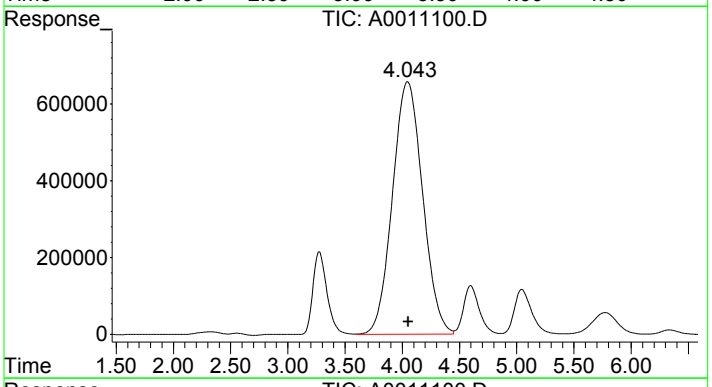
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





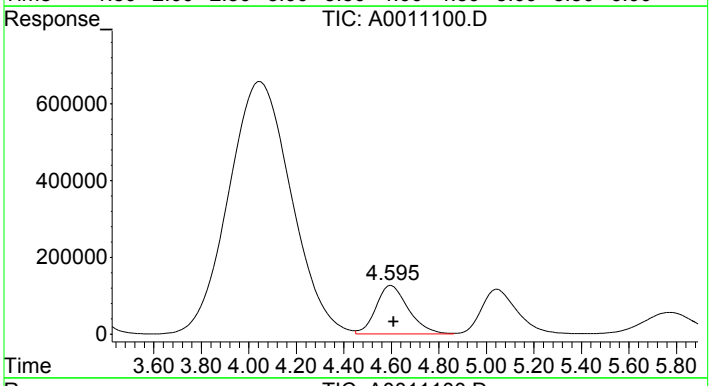
#1 Formic acid

R.T.: 3.279 min
Delta R.T.: -0.003 min
Response: 18292150
Conc: 96.98 ppm



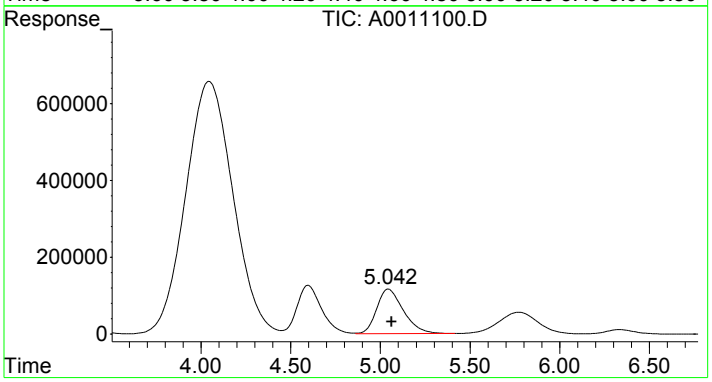
#2 Pyruvic acid

R.T.: 4.049 min
Delta R.T.: -0.003 min
Response: 120443111
Conc: 96.09 ppm



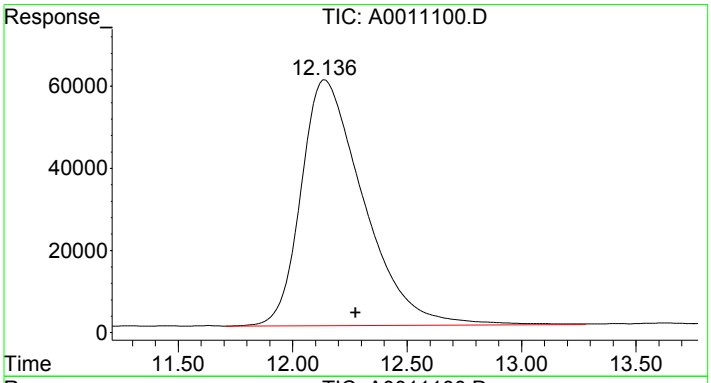
#3 Lactic Acid

R.T.: 4.602 min
Delta R.T.: -0.007 min
Response: 11937564
Conc: 98.50 ppm



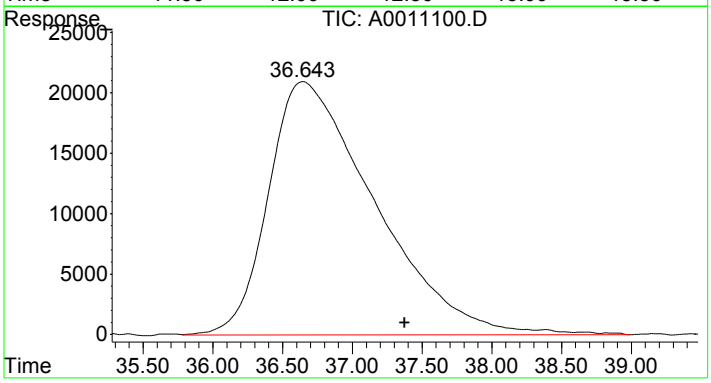
#4 Acetic Acid

R.T.: 5.049 min
Delta R.T.: -0.013 min
Response: 11961661
Conc: 95.61 ppm



#5 Propionic Acid

R.T.: 12.136 min
Delta R.T.: -0.139 min
Response: 11437682
Conc: 97.31 ppm m



#6 Butyric Acid

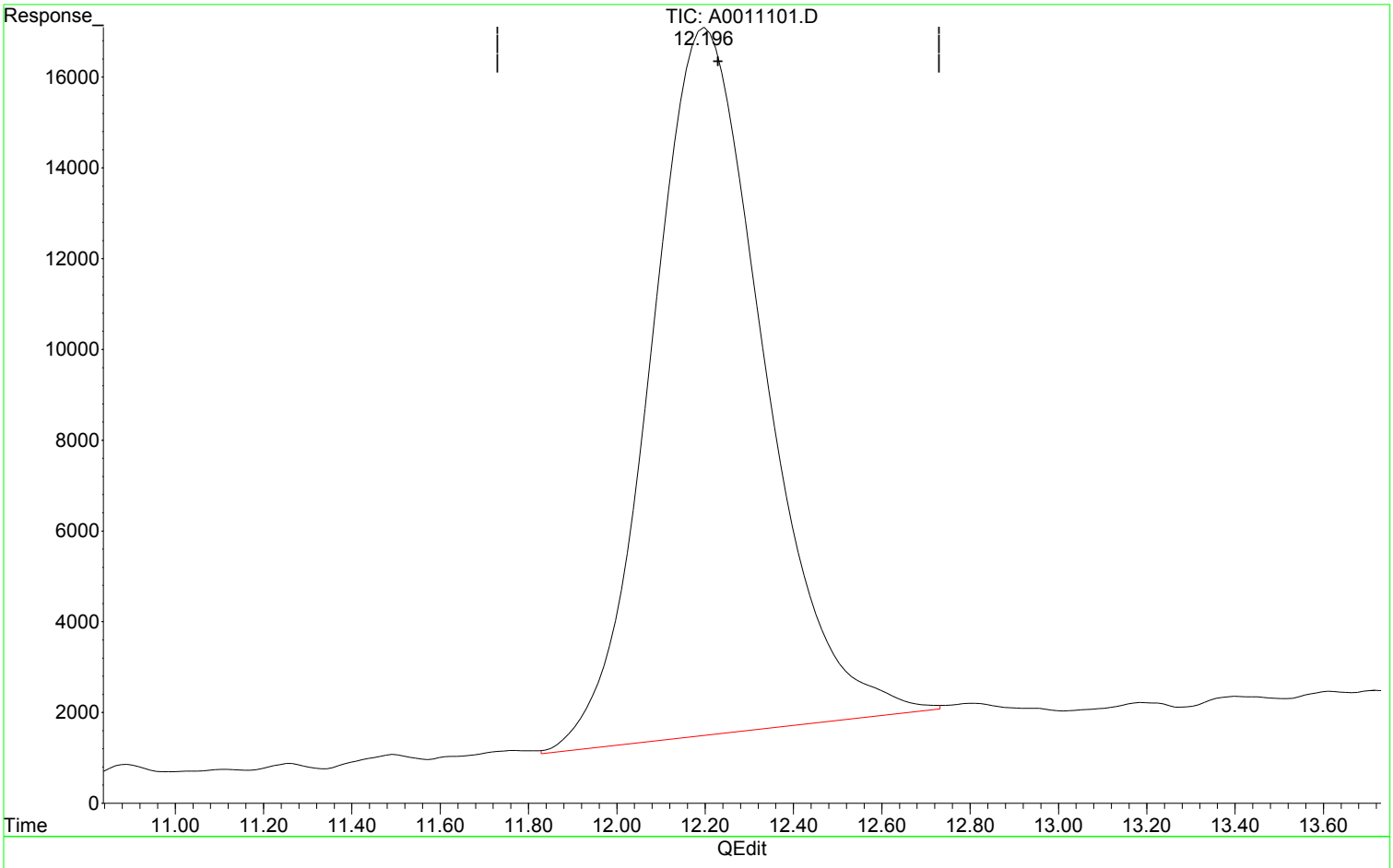
R.T.: 36.643 min
Delta R.T.: -0.733 min
Response: 11157120
Conc: 98.08 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011101.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 09:48:00
Operator : EDeGray
Sample : ICV
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:52:17 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:51:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

12.196min 44.911 ppm m

response 2781733

Manual Integration:

After

Poor integration.

02/07/24

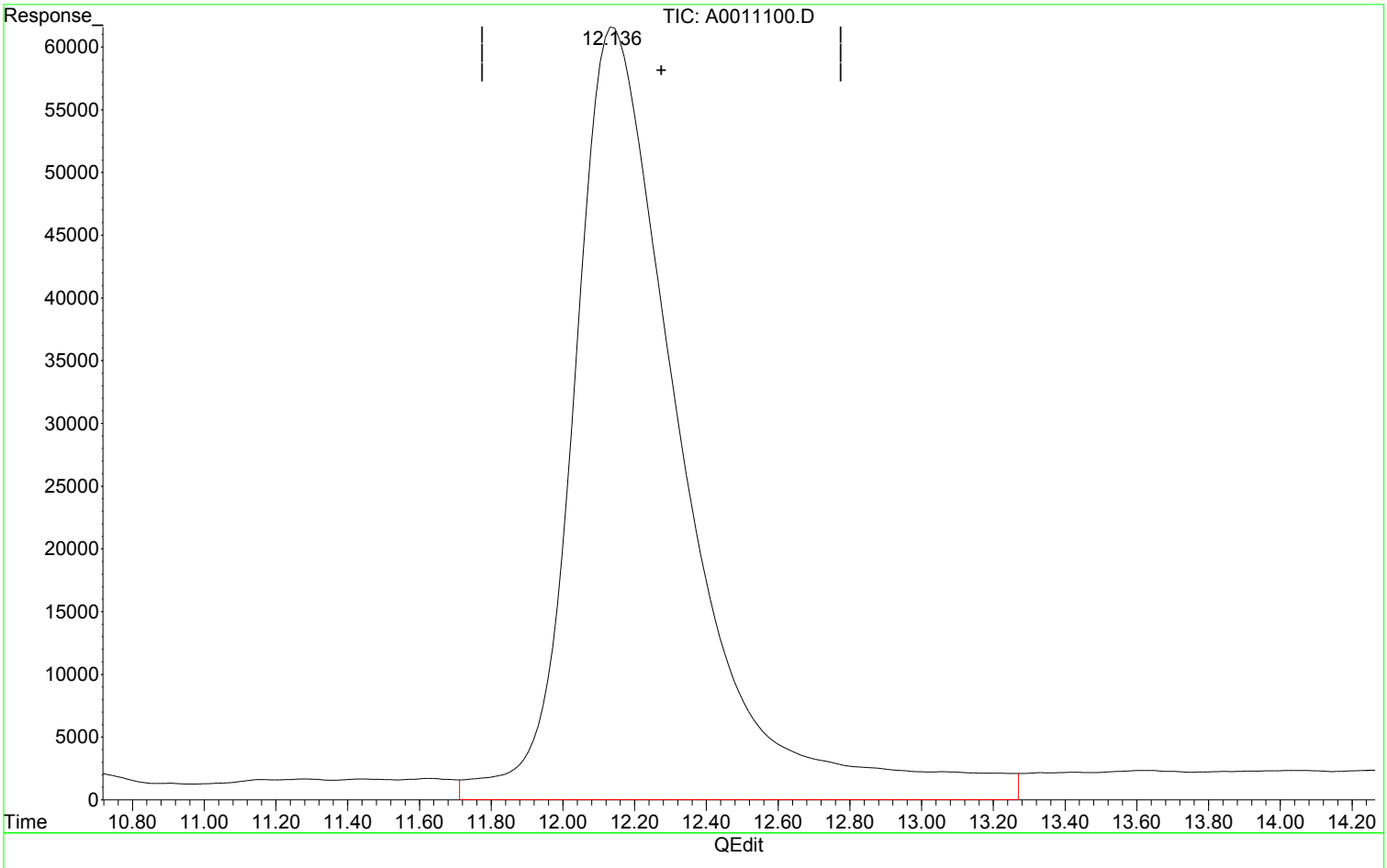
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011100.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:09:53
Operator : EDeGray
Sample : 200STD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:52 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

12.144min 111.229 ppm

response 13073943

Manual Integration:

Before

02/07/24

(+) = Expected Retention Time

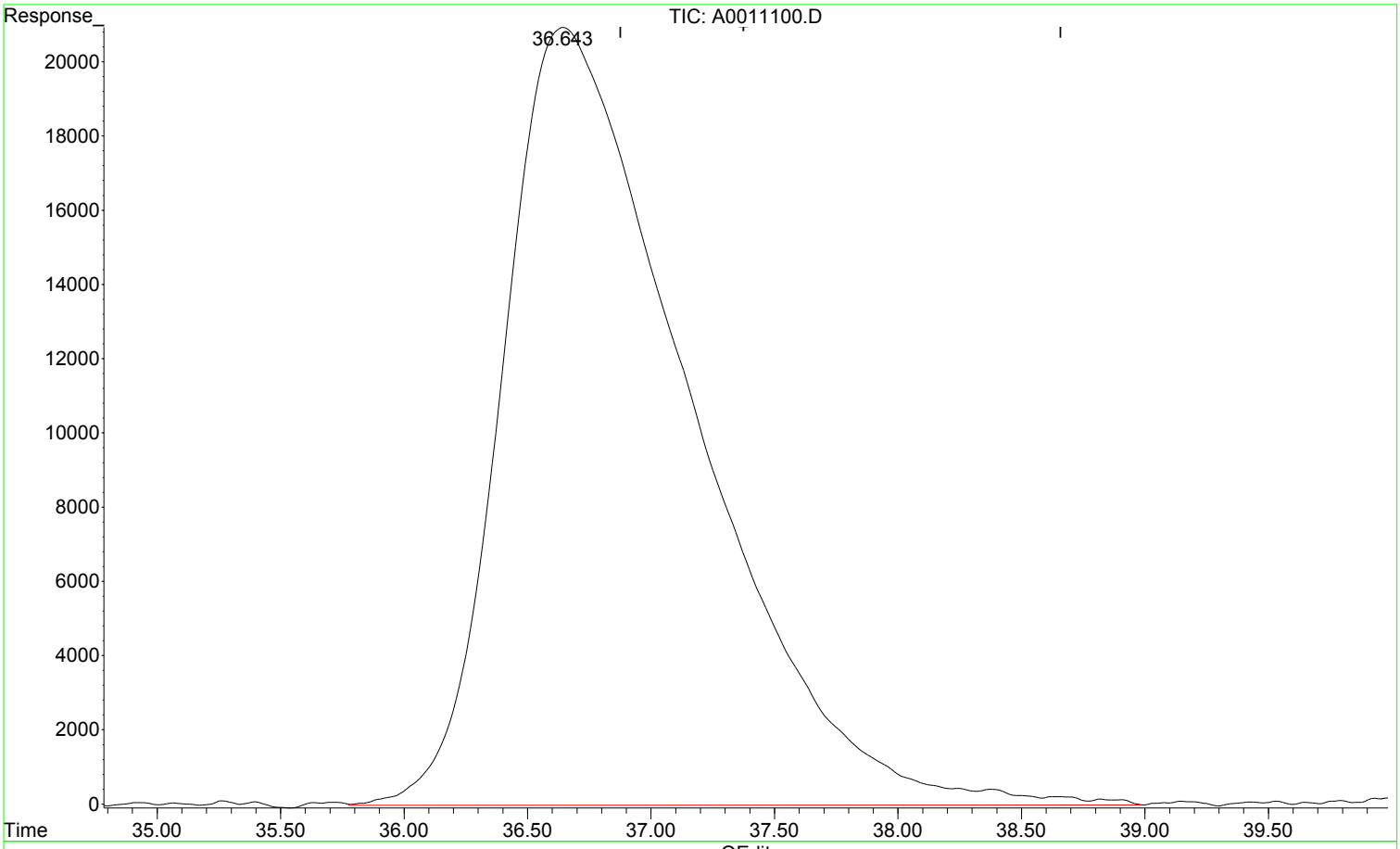
1st EDG 02/08/24
2nd AF 02/20/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011100.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:09:53
Operator : EDeGray
Sample : 200STD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:52 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



QEdit

(6) Butyric Acid (T)

36.643min 98.084 ppm m

response 11157120

Manual Integration:

After

Poor integration.

02/07/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011099.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 19:38:18
Operator : EDeGray
Sample : 100STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:49 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.279	9439994	50.049	ppm	
2) T	Pyruvic acid	4.051	62621109	49.961	ppm	
3) T	Lactic Acid	4.607	6131320	50.592	ppm	
4) T	Acetic Acid	5.058	6131395	49.006	ppm	
5) T	Propionic Acid	12.202	5897654	50.175	ppm	m
6) T	Butyric Acid	36.970	5819593	51.161	ppm	

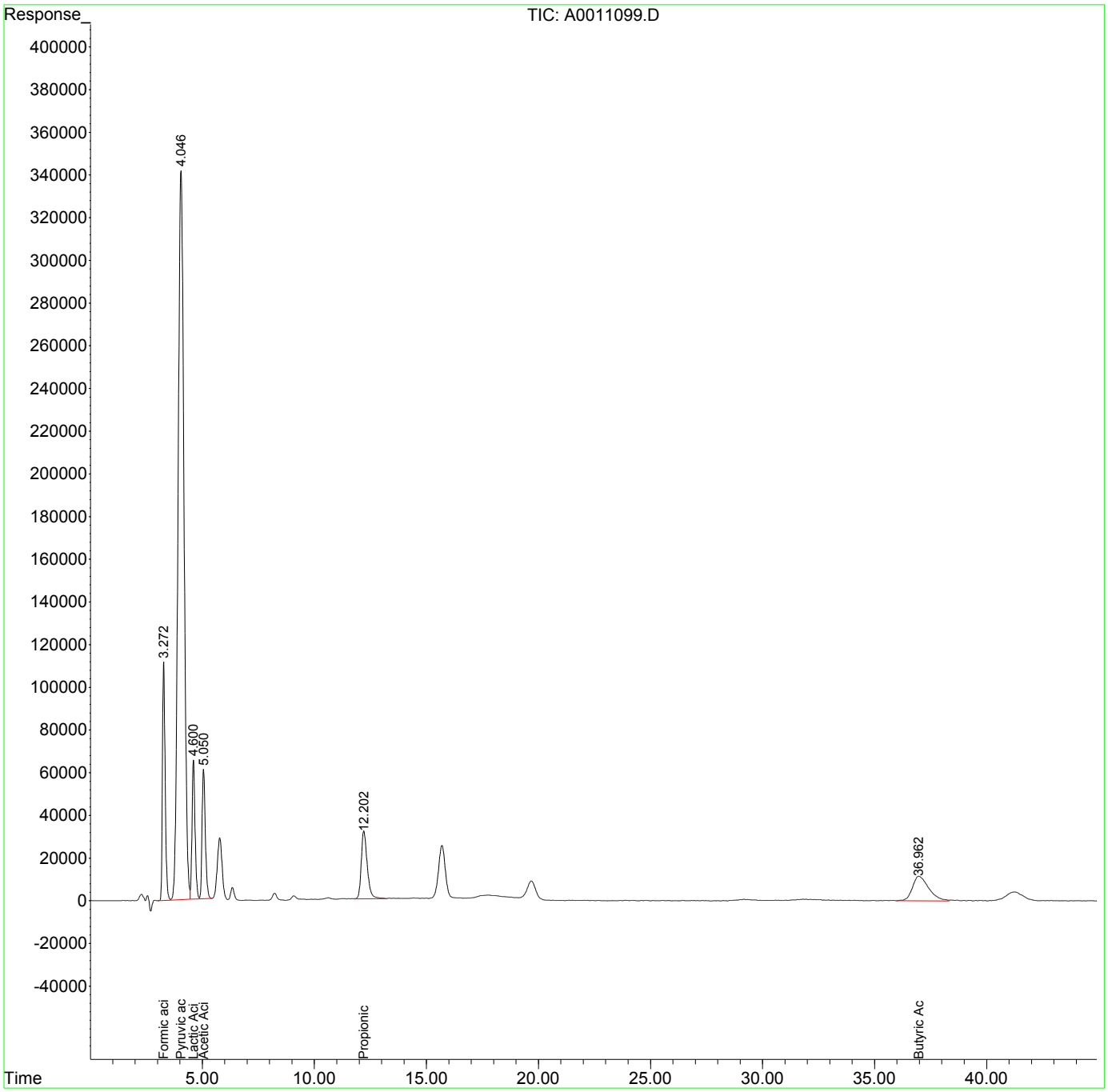
(f)=RT Delta > 1/2 Window (m)=manual int.

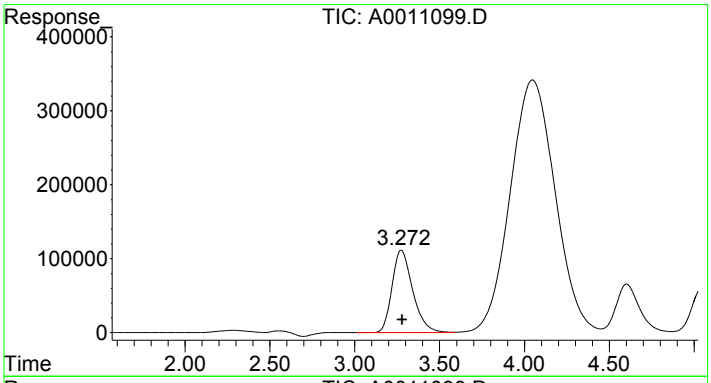
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011099.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 19:38:18
Operator : EDeGray
Sample : 100STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:49 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

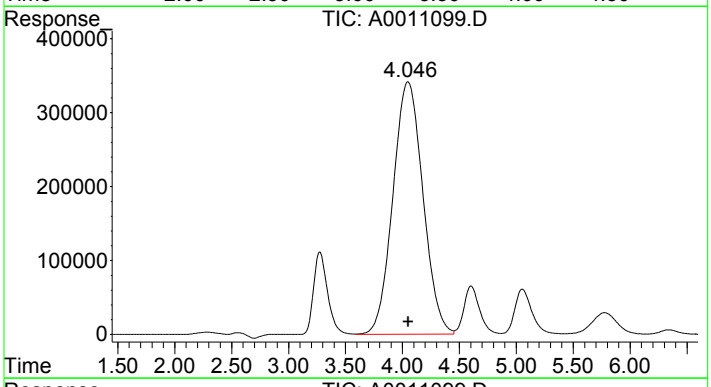
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





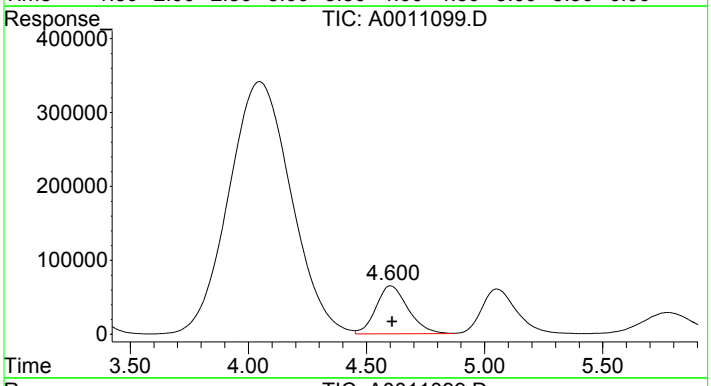
#1 Formic acid

R.T.: 3.279 min
Delta R.T.: -0.003 min
Response: 9439994
Conc: 50.05 ppm



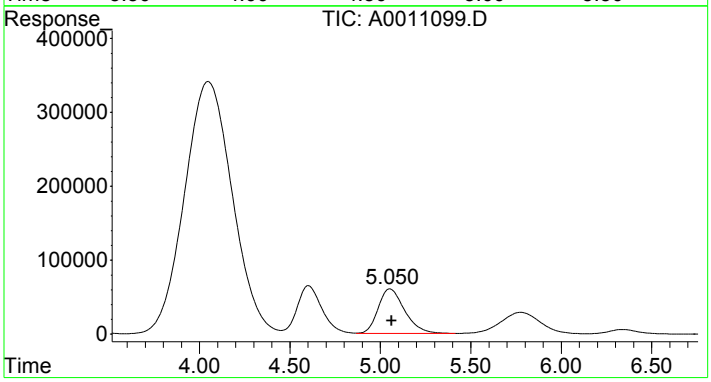
#2 Pyruvic acid

R.T.: 4.051 min
Delta R.T.: 0.000 min
Response: 62621109
Conc: 49.96 ppm



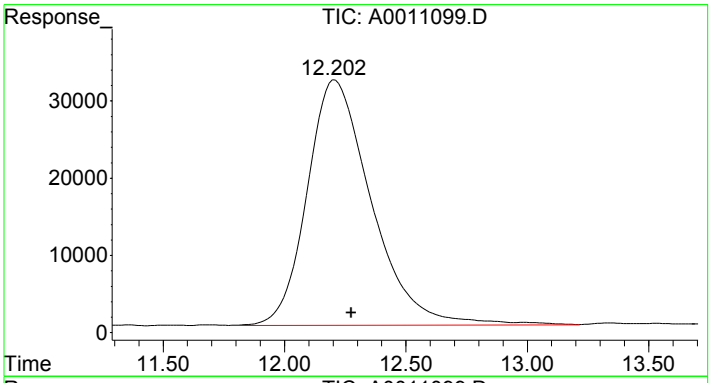
#3 Lactic Acid

R.T.: 4.607 min
Delta R.T.: -0.002 min
Response: 6131320
Conc: 50.59 ppm



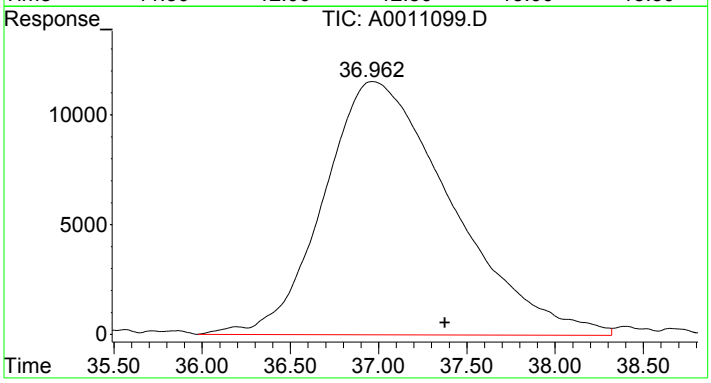
#4 Acetic Acid

R.T.: 5.058 min
Delta R.T.: -0.004 min
Response: 6131395
Conc: 49.01 ppm



#5 Propionic Acid

R.T.: 12.202 min
Delta R.T.: -0.073 min
Response: 5897654
Conc: 50.18 ppm m



#6 Butyric Acid

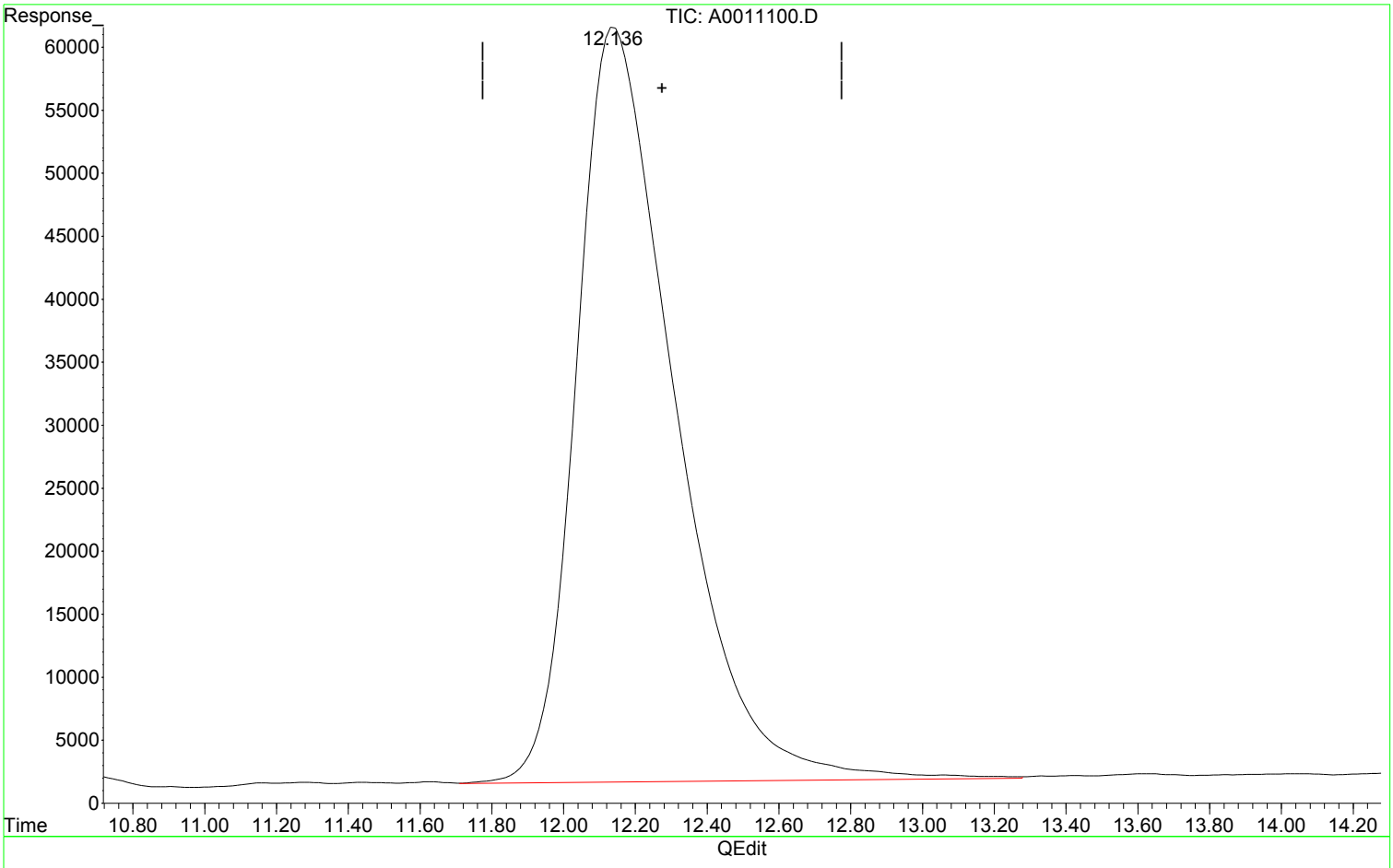
R.T.: 36.970 min
Delta R.T.: -0.406 min
Response: 5819593
Conc: 51.16 ppm

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011100.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:09:53
Operator : EDeGray
Sample : 200STD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:52 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

12.136min 97.308 ppm m

response 11437682

Manual Integration:

After

Poor integration.

02/07/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011098.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 18:51:00
Operator : EDeGray
Sample : 50STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:47 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

Compound	R.T.	Response	Conc Units
Target Compounds			
1) t Formic acid	3.282	4730728	25.082 ppm
2) T Pyruvic acid	4.056	31241460	24.925 ppm
3) T Lactic Acid	4.613	3025506	24.964 ppm
4) T Acetic Acid	5.064	3041021	24.306 ppm
5) T Propionic Acid	12.255	3031876	25.794 ppm
6) T Butyric Acid	37.164	2885618	25.368 ppm

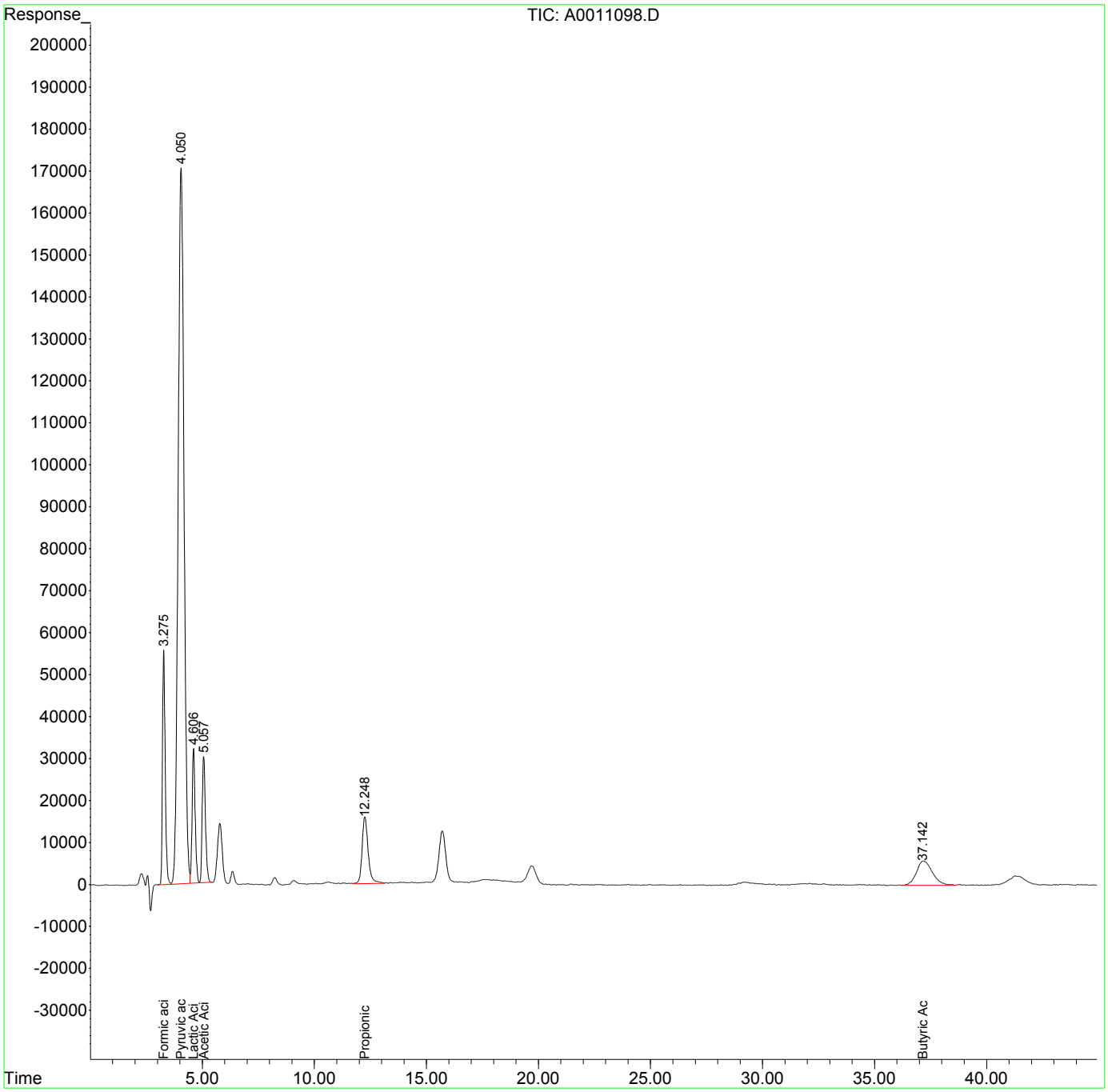
(f)=RT Delta > 1/2 Window (m)=manual int.

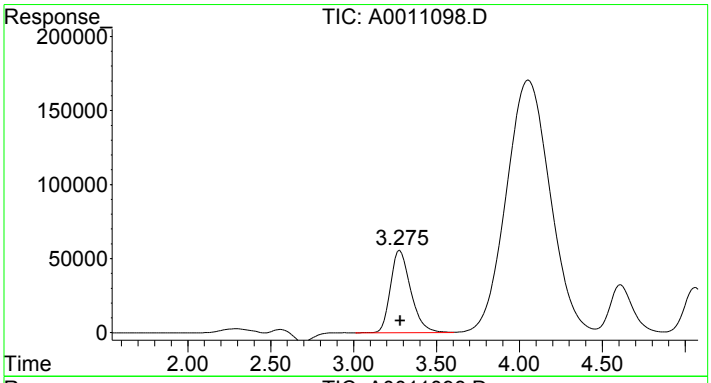
1st EDG 02/08/24
2nd AF 02/20/24

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011098.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 18:51:00
Operator : EDeGray
Sample : 50STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:47 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

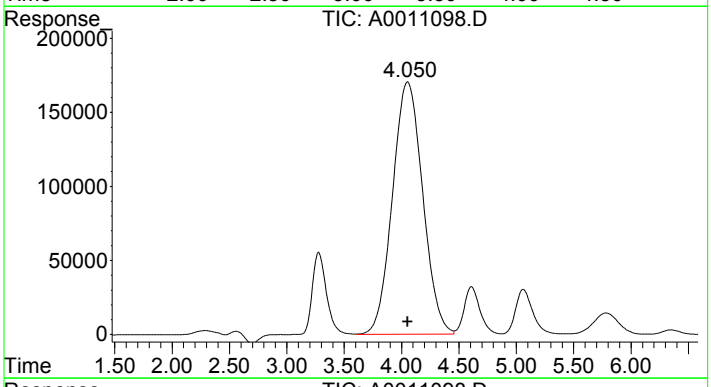
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





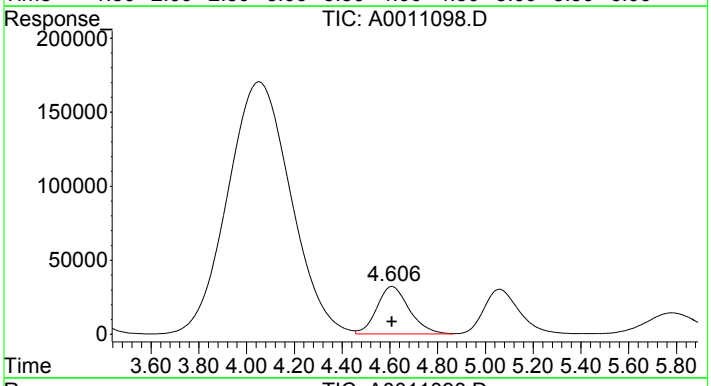
#1 Formic acid

R.T.: 3.282 min
Delta R.T.: 0.000 min
Response: 4730728
Conc: 25.08 ppm



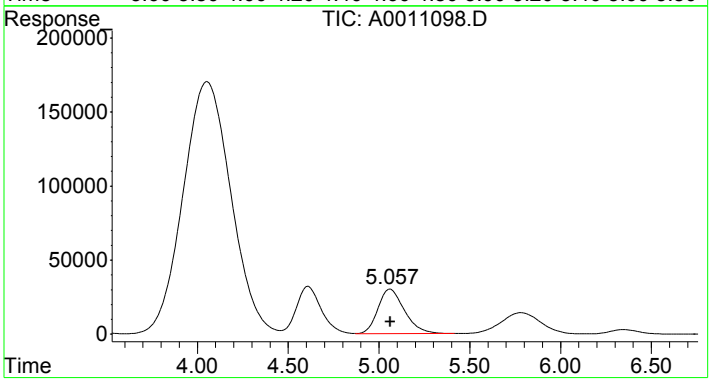
#2 Pyruvic acid

R.T.: 4.056 min
Delta R.T.: 0.004 min
Response: 31241460
Conc: 24.93 ppm



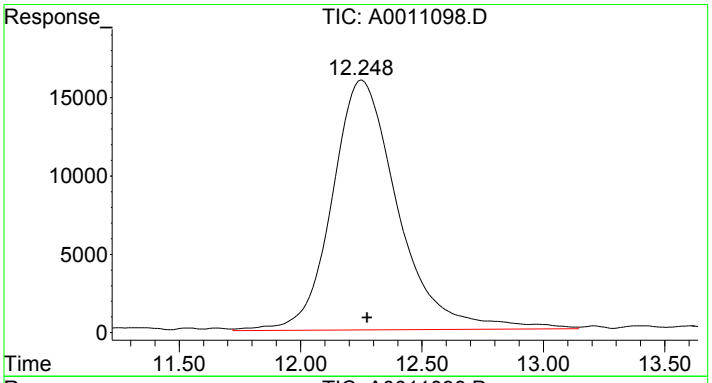
#3 Lactic Acid

R.T.: 4.613 min
Delta R.T.: 0.004 min
Response: 3025506
Conc: 24.96 ppm



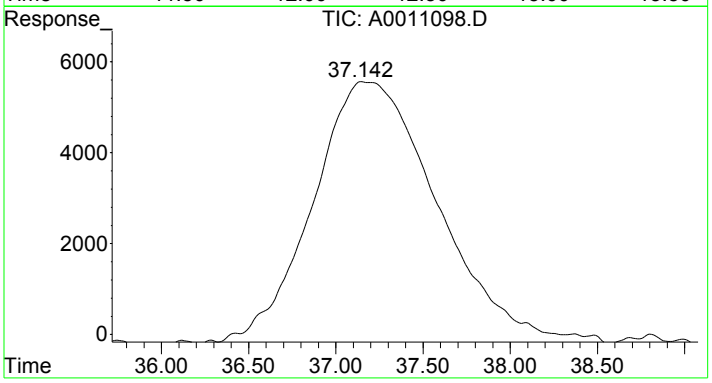
#4 Acetic Acid

R.T.: 5.064 min
Delta R.T.: 0.002 min
Response: 3041021
Conc: 24.31 ppm



#5 Propionic Acid

R.T.: 12.255 min
Delta R.T.: -0.020 min
Response: 3031876
Conc: 25.79 ppm



#6 Butyric Acid

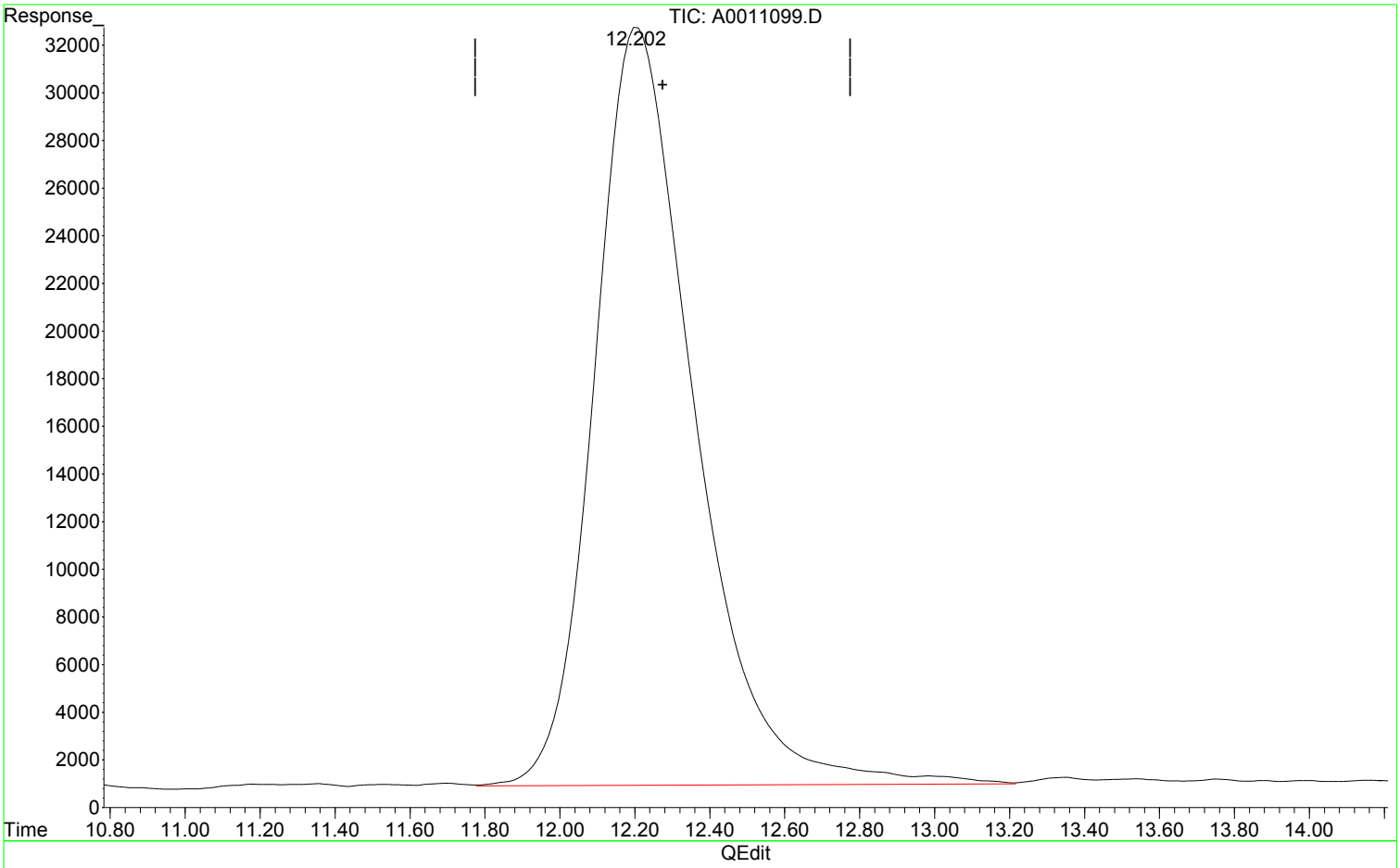
R.T.: 37.164 min
Delta R.T.: -0.212 min
Response: 2885618
Conc: 25.37 ppm

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011099.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 19:38:18
Operator : EDeGray
Sample : 100STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:49 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

12.202min 50.175 ppm m

response 5897654

Manual Integration:

After

Poor integration.

02/07/24

(+) = Expected Retention Time

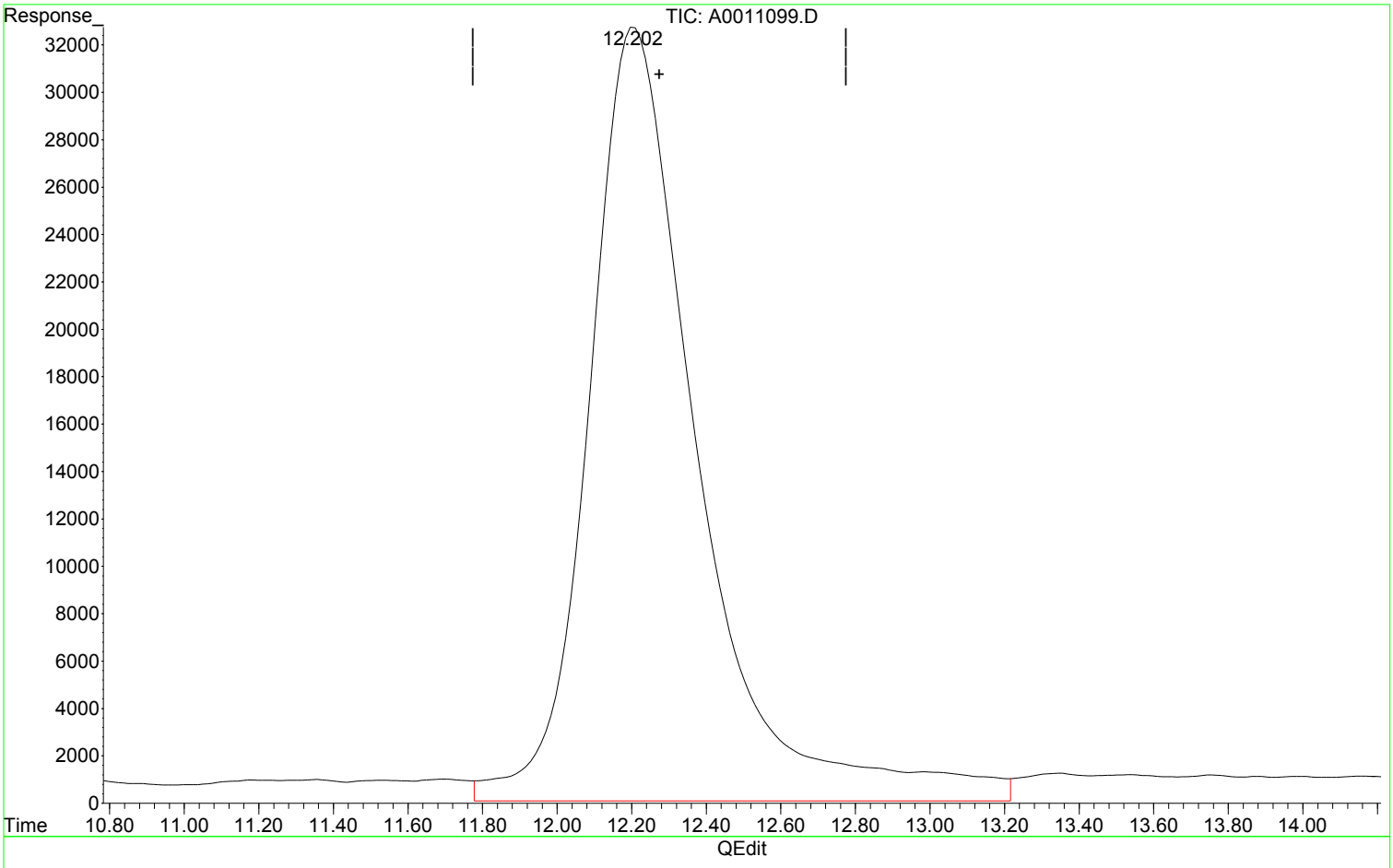
1st EDG 02/08/24
2nd AF 02/20/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011099.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 19:38:18
Operator : EDeGray
Sample : 100STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:49 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

12.209min 56.452 ppm

response 6635415

Manual Integration:

Before

02/07/24

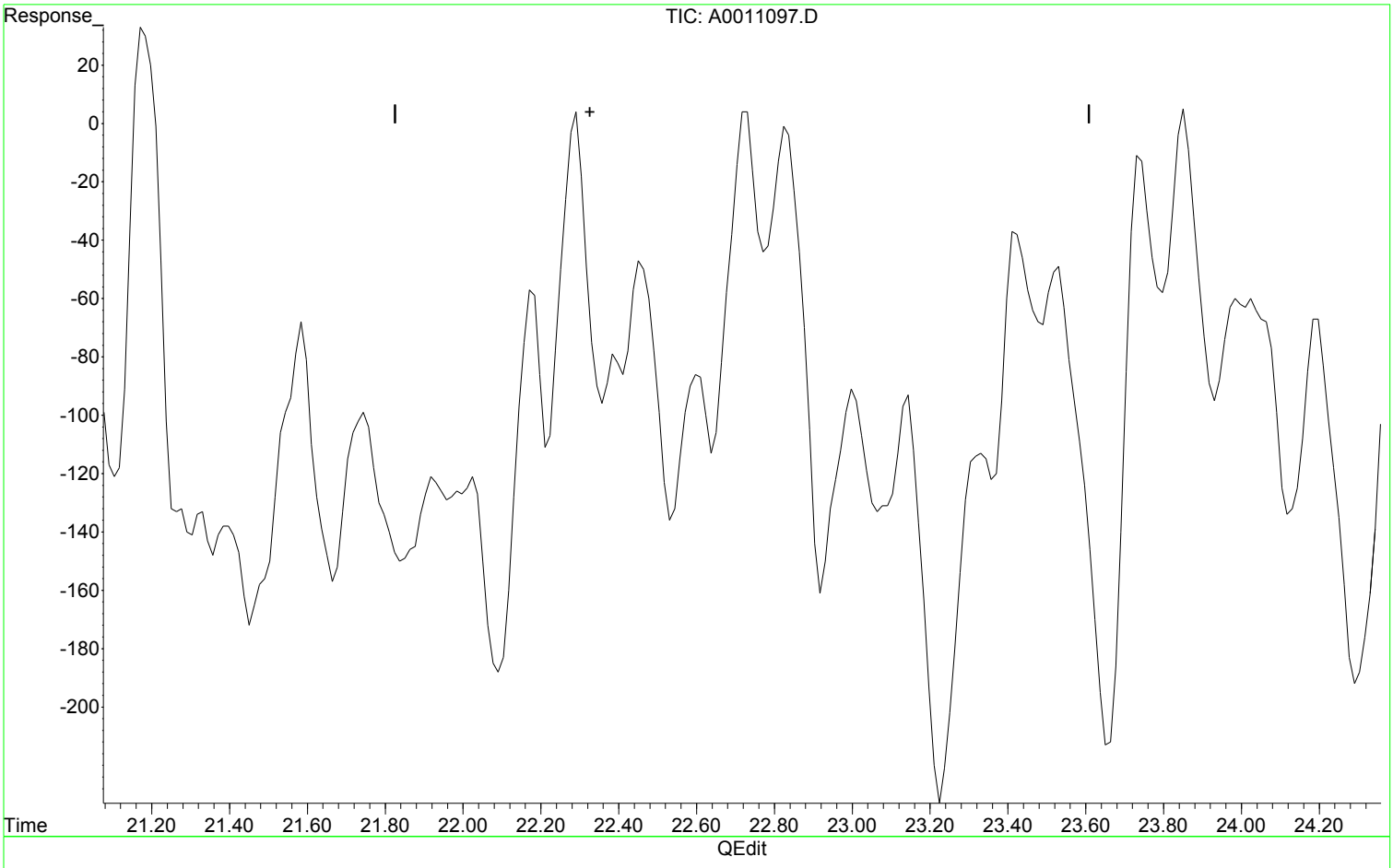
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011097.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 18:03:42
Operator : EDeGray
Sample : 20STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:23:24 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Mon Feb 05 14:44:20 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

22.326min 0.000 ppm

response 0

Manual Integration:

Before

02/07/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011097.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 18:03:42
Operator : EDeGray
Sample : 20STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:23:24 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Mon Feb 05 14:44:20 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.282	1886135	21.814	ppm	
2) T	Pyruvic acid	4.052f	12534028	19.193	ppm	m
3) T	Lactic Acid	4.609f	1211925	20.675	ppm	m
4) T	Acetic Acid	5.062f	1251140	20.937	ppm	m
5) T	Propionic Acid	12.275f	1175412	21.682	ppm	m
6) T	Butyric Acid	37.376f	1137508	15.225	ppm	m

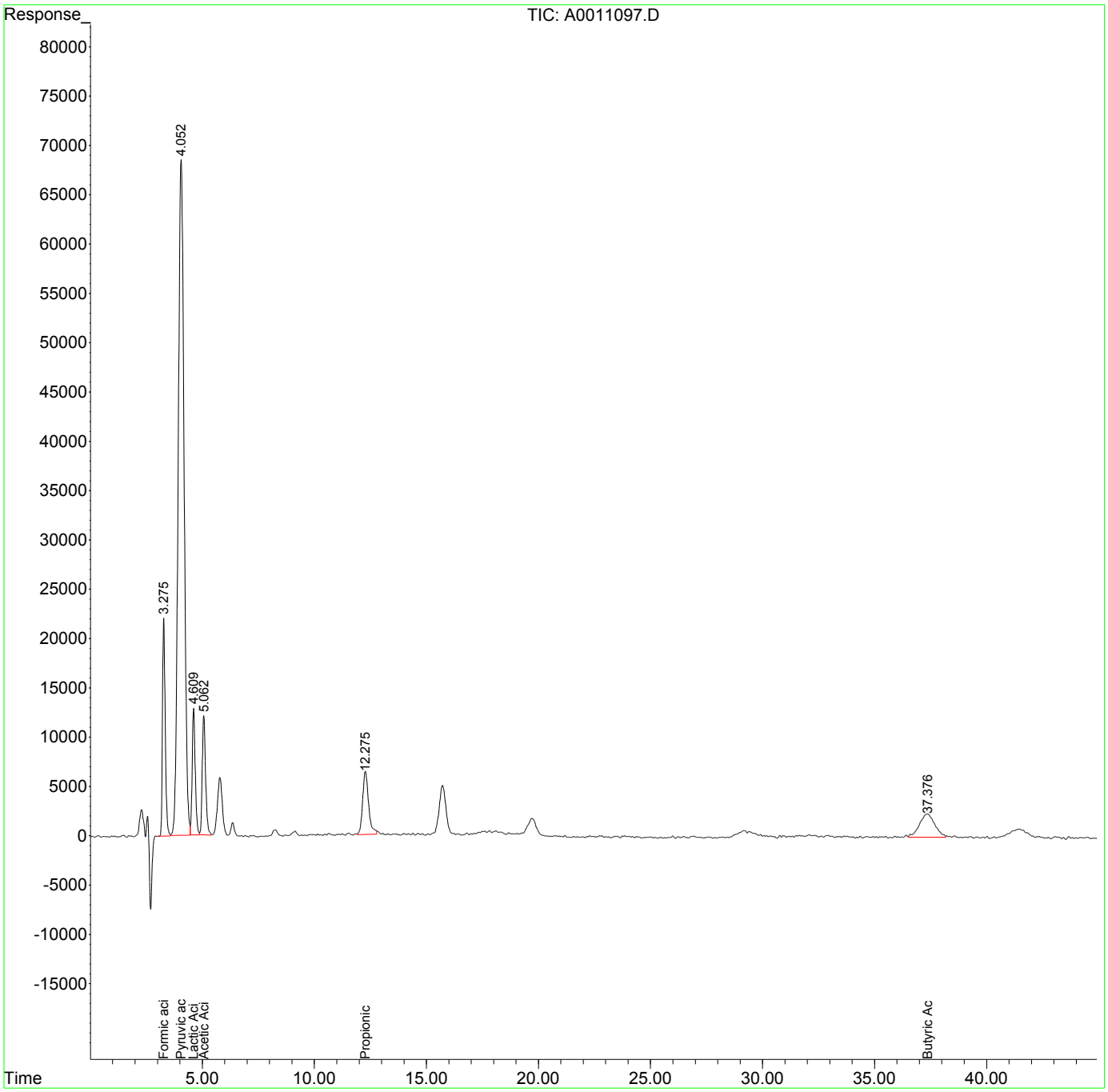
(f)=RT Delta > 1/2 Window (m)=manual int.

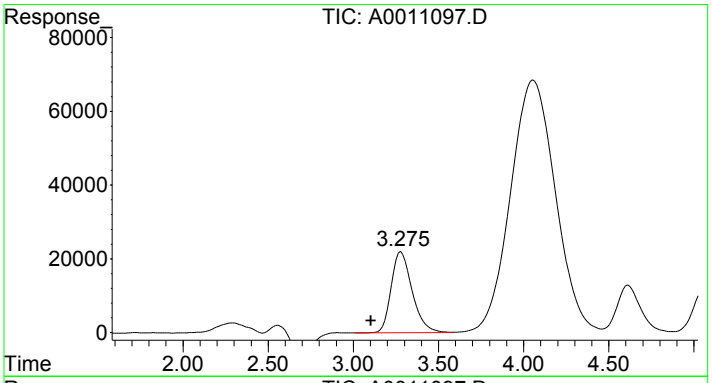
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011097.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 18:03:42
Operator : EDeGray
Sample : 20STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:23:24 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Mon Feb 05 14:44:20 2024
Response via : Initial Calibration
Integrator: ChemStation

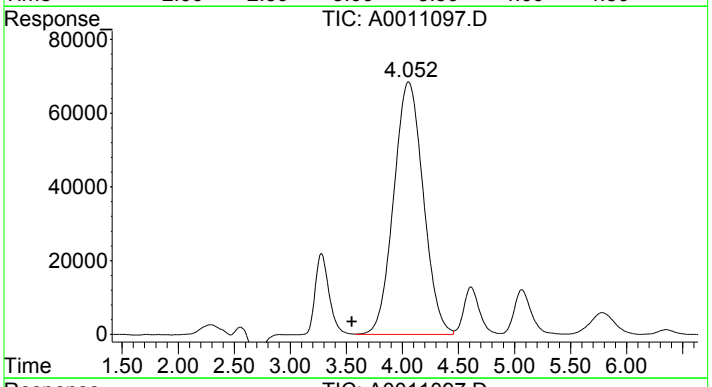
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





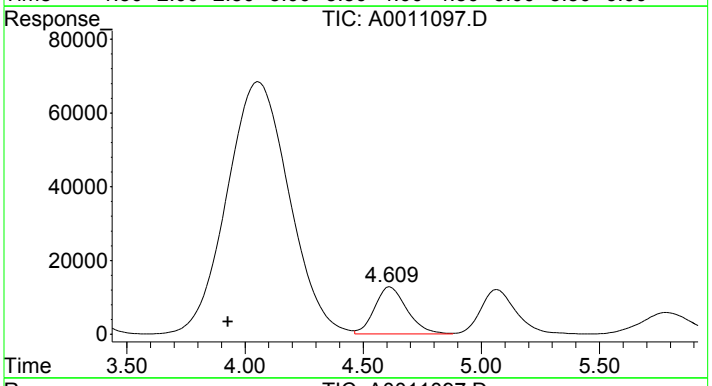
#1 Formic acid

R.T.: 3.282 min
Delta R.T.: 0.177 min
Response: 1886135
Conc: 21.81 ppm



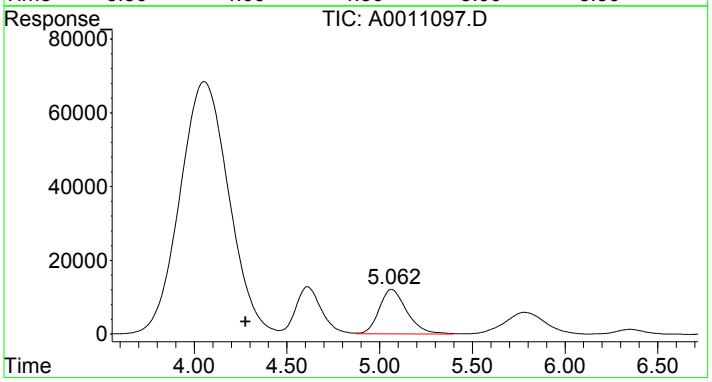
#2 Pyruvic acid

R.T.: 4.052 min
Delta R.T.: 0.501 min
Response: 12534028
Conc: 19.19 ppm m



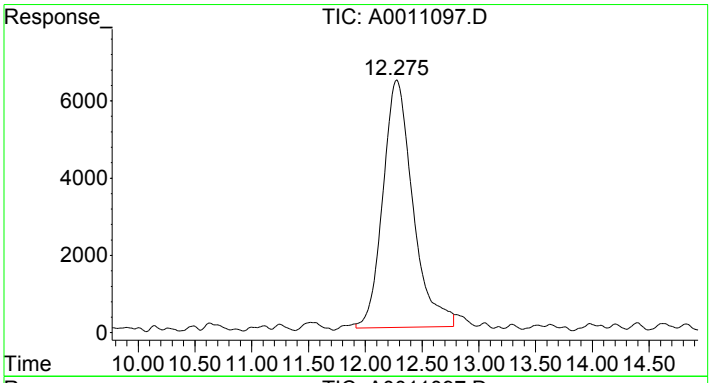
#3 Lactic Acid

R.T.: 4.609 min
Delta R.T.: 0.681 min
Response: 1211925
Conc: 20.67 ppm m



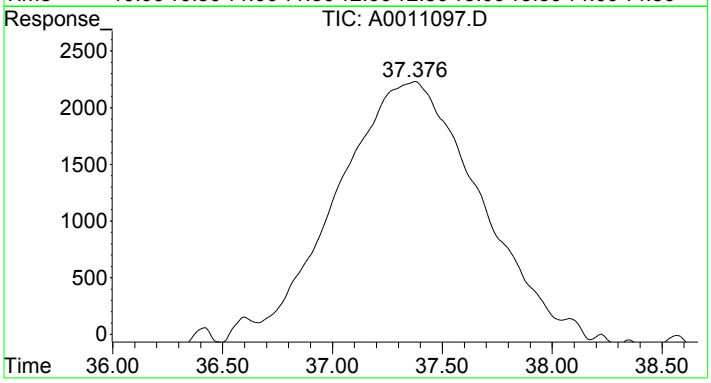
#4 Acetic Acid

R.T.: 5.062 min
Delta R.T.: 0.785 min
Response: 1251140
Conc: 20.94 ppm m



#5 Propionic Acid

R.T.: 12.275 min
Delta R.T.: 3.700 min
Response: 1175412
Conc: 21.68 ppm m



#6 Butyric Acid

R.T.: 37.376 min
Delta R.T.: 15.050 min
Response: 1137508
Conc: 15.23 ppm m

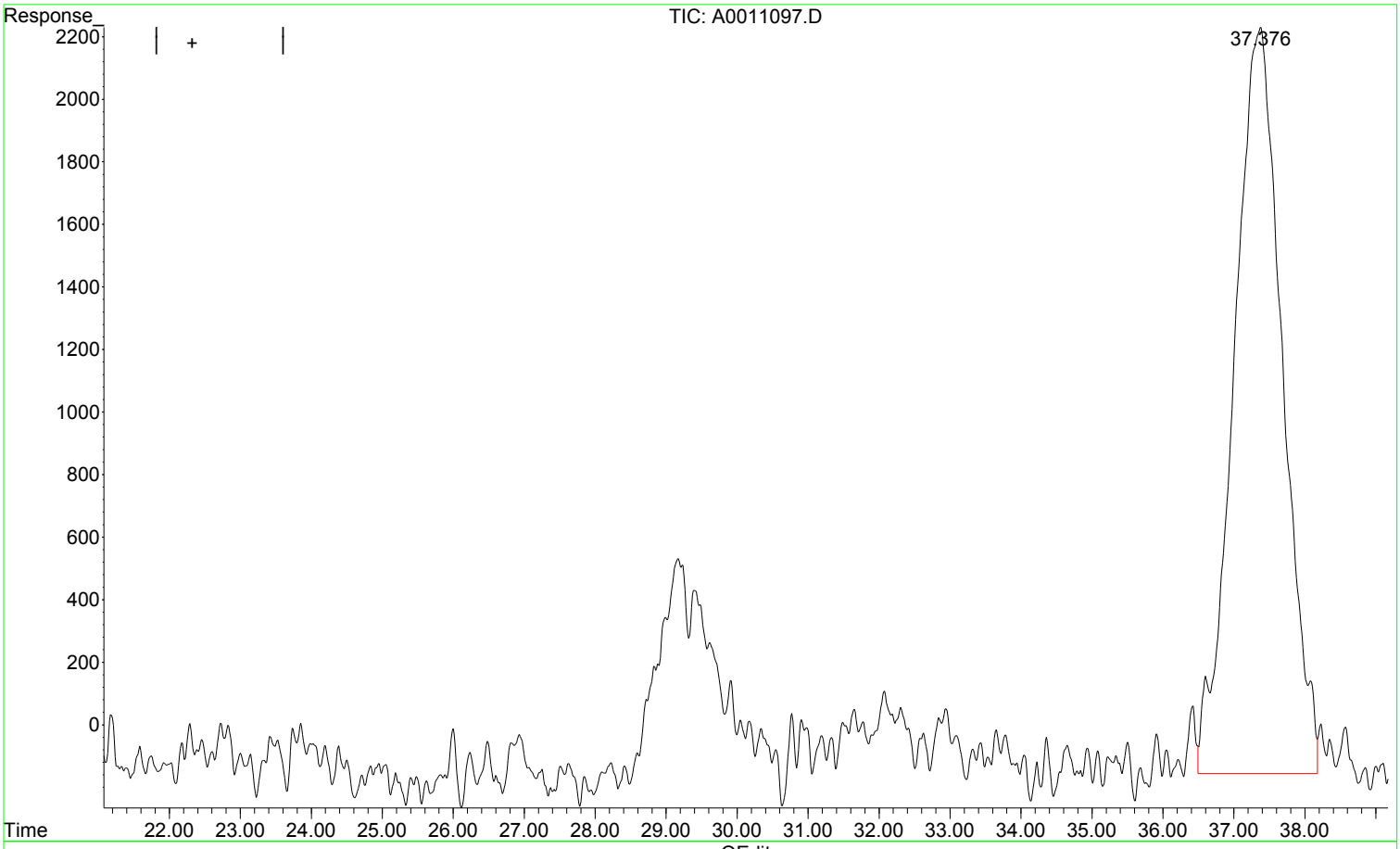
1st EDG 02/08/24
2nd AF 02/20/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011097.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 18:03:42
Operator : EDeGray
Sample : 20STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:23:24 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Mon Feb 05 14:44:20 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

37.376min 15.225 ppm m

response 1137508

Manual Integration:

After

Wrong peak selected.

02/07/24

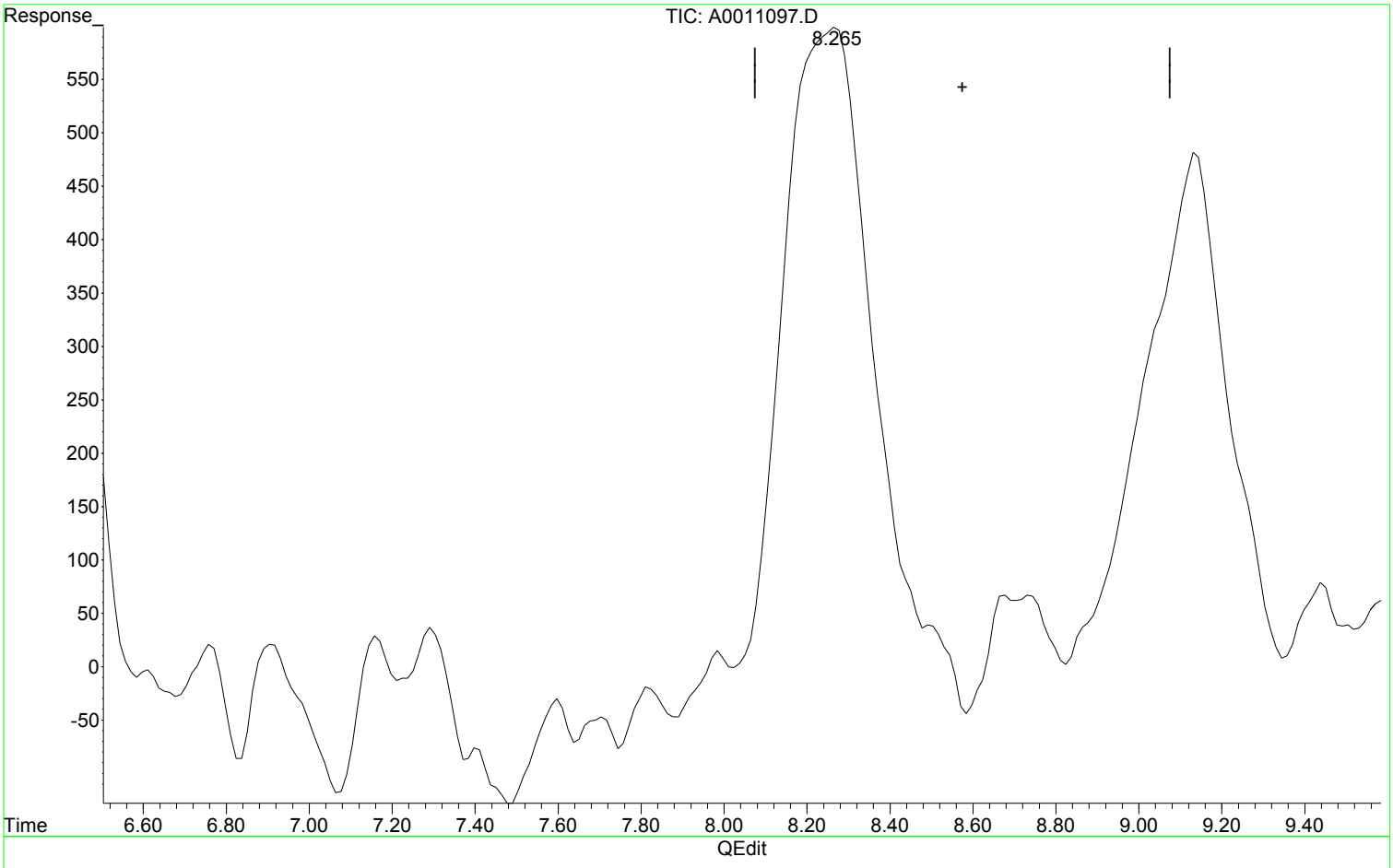
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011097.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 18:03:42
Operator : EDeGray
Sample : 20STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:23:24 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Mon Feb 05 14:44:20 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

8.258min 2.878 ppm

response 156013

Manual Integration:

Before

02/07/24

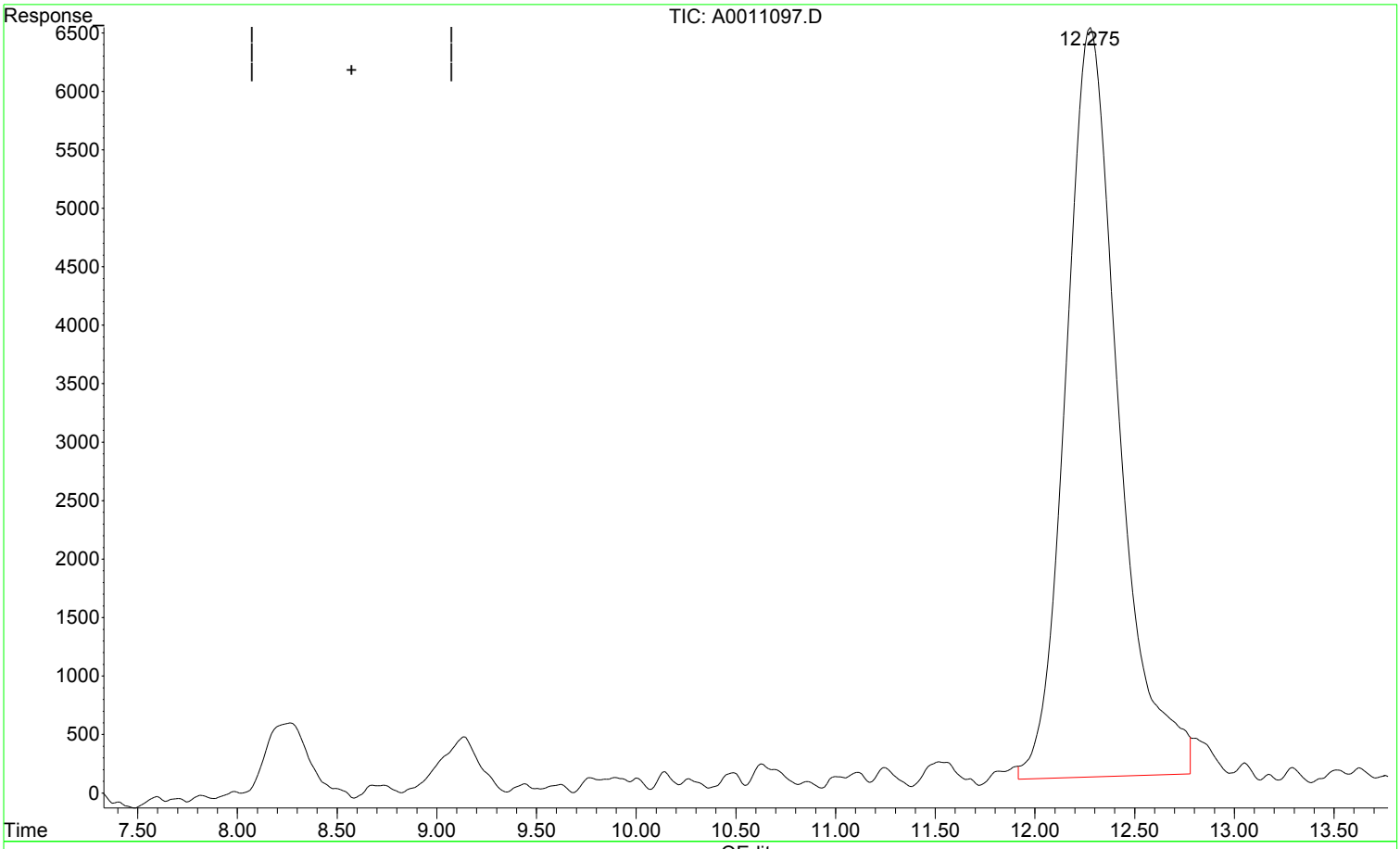
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011097.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 18:03:42
Operator : EDeGray
Sample : 20STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:23:24 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Mon Feb 05 14:44:20 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

12.275min 21.682 ppm m

response 1175412

Manual Integration:

After

Wrong peak selected.

02/07/24

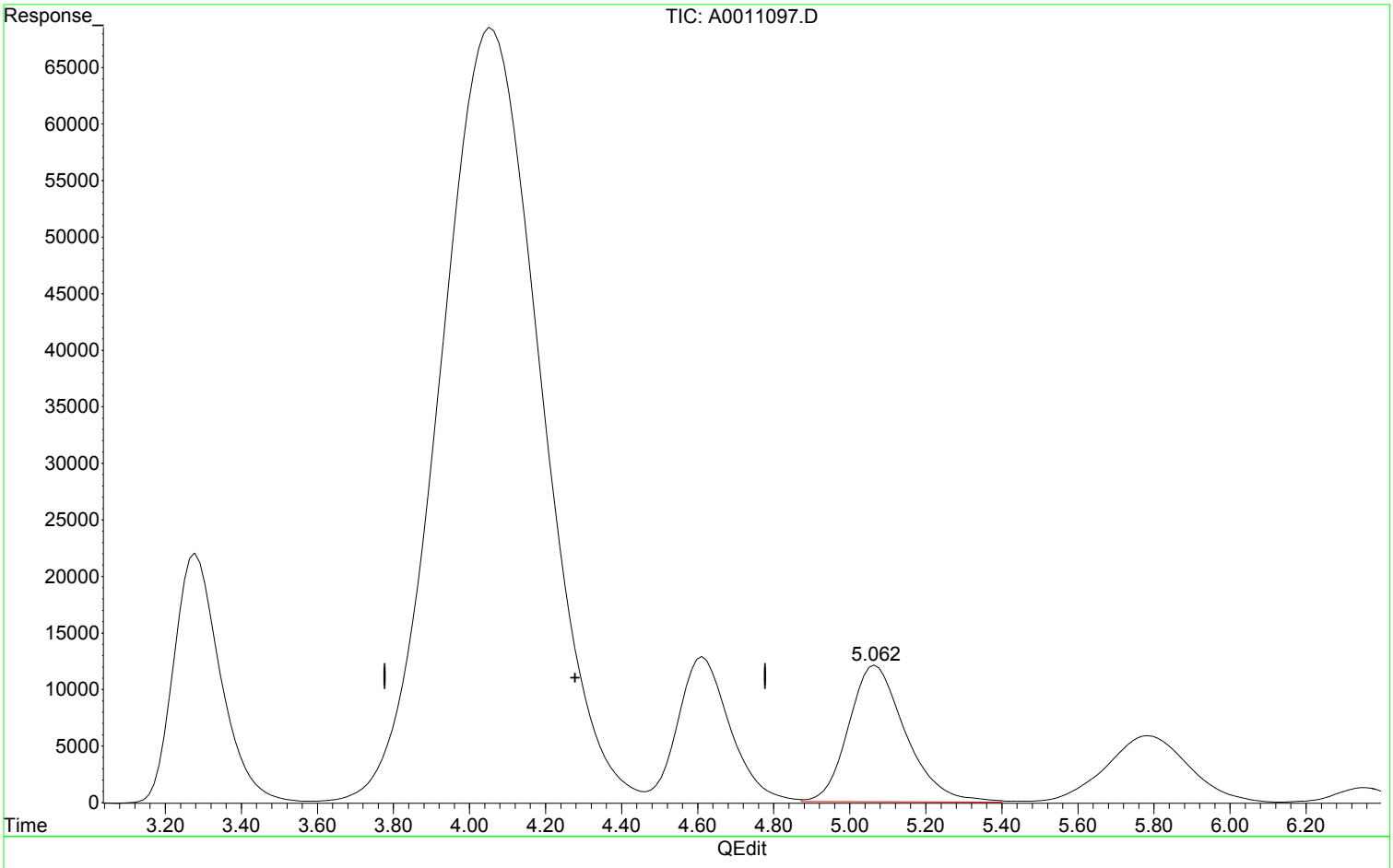
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011097.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 18:03:42
Operator : EDeGray
Sample : 20STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:23:24 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Mon Feb 05 14:44:20 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

5.062min 20.937 ppm m

response 1251140

Manual Integration:

After

Wrong peak selected.

02/07/24

(+) = Expected Retention Time

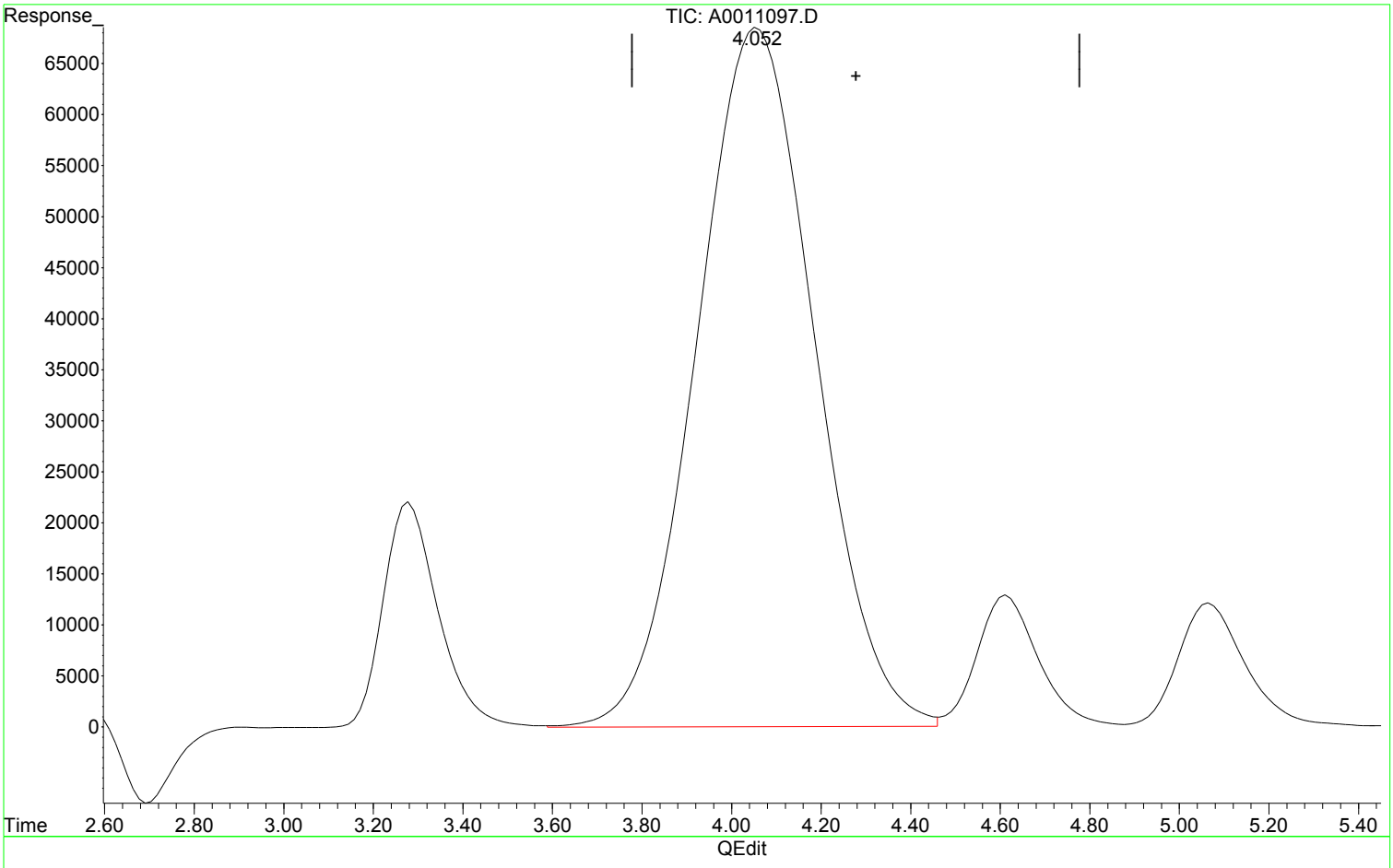
1st EDG 02/08/24
2nd AF 02/20/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011097.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 18:03:42
Operator : EDeGray
Sample : 20STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:23:24 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Mon Feb 05 14:44:20 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.058min 209.790 ppm

response 12536569

Manual Integration:

Before

02/07/24

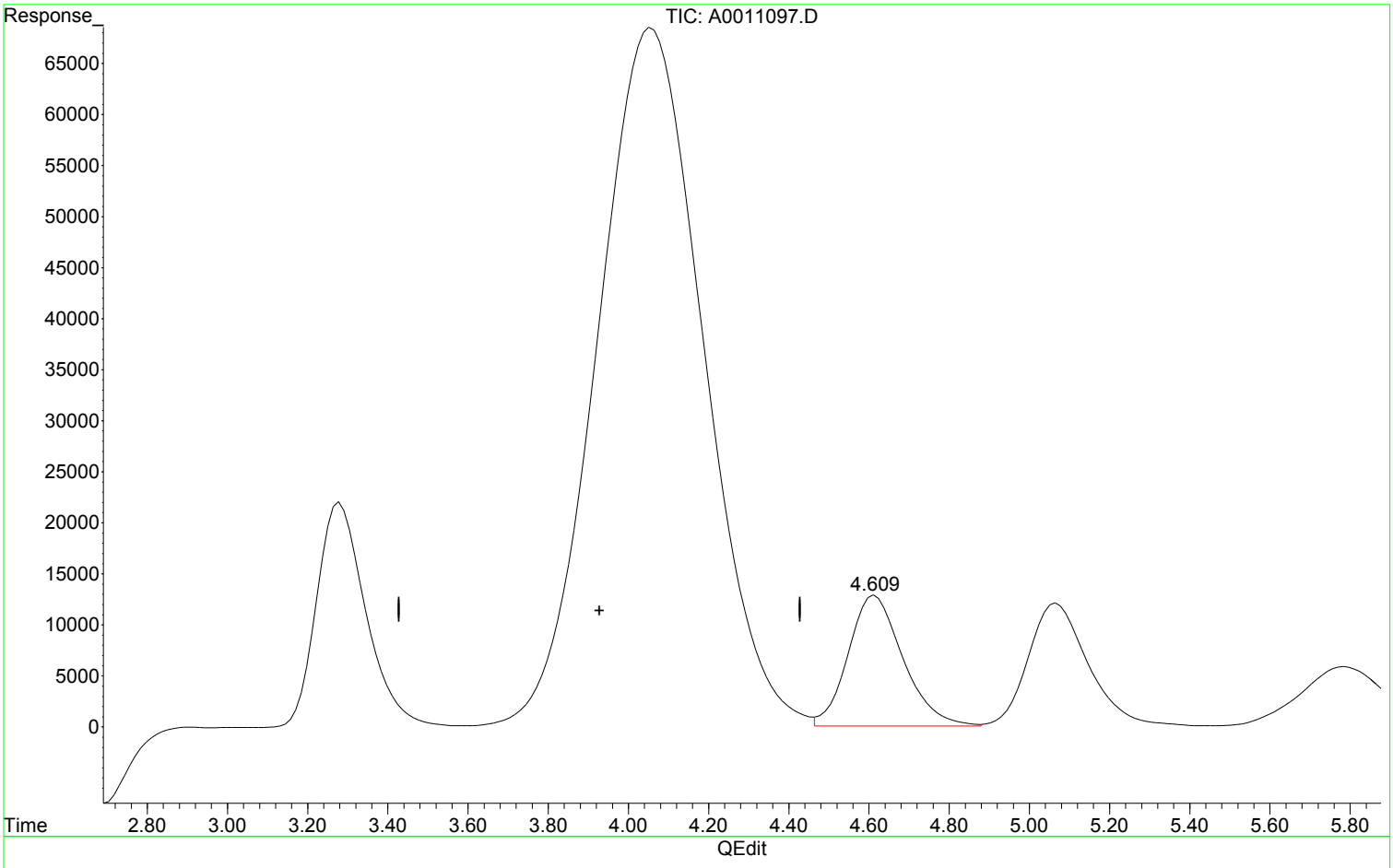
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011097.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 18:03:42
Operator : EDeGray
Sample : 20STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:23:24 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Mon Feb 05 14:44:20 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)

4.609min 20.675 ppm m

response 1211925

Manual Integration:

After

Wrong peak selected.

02/07/24

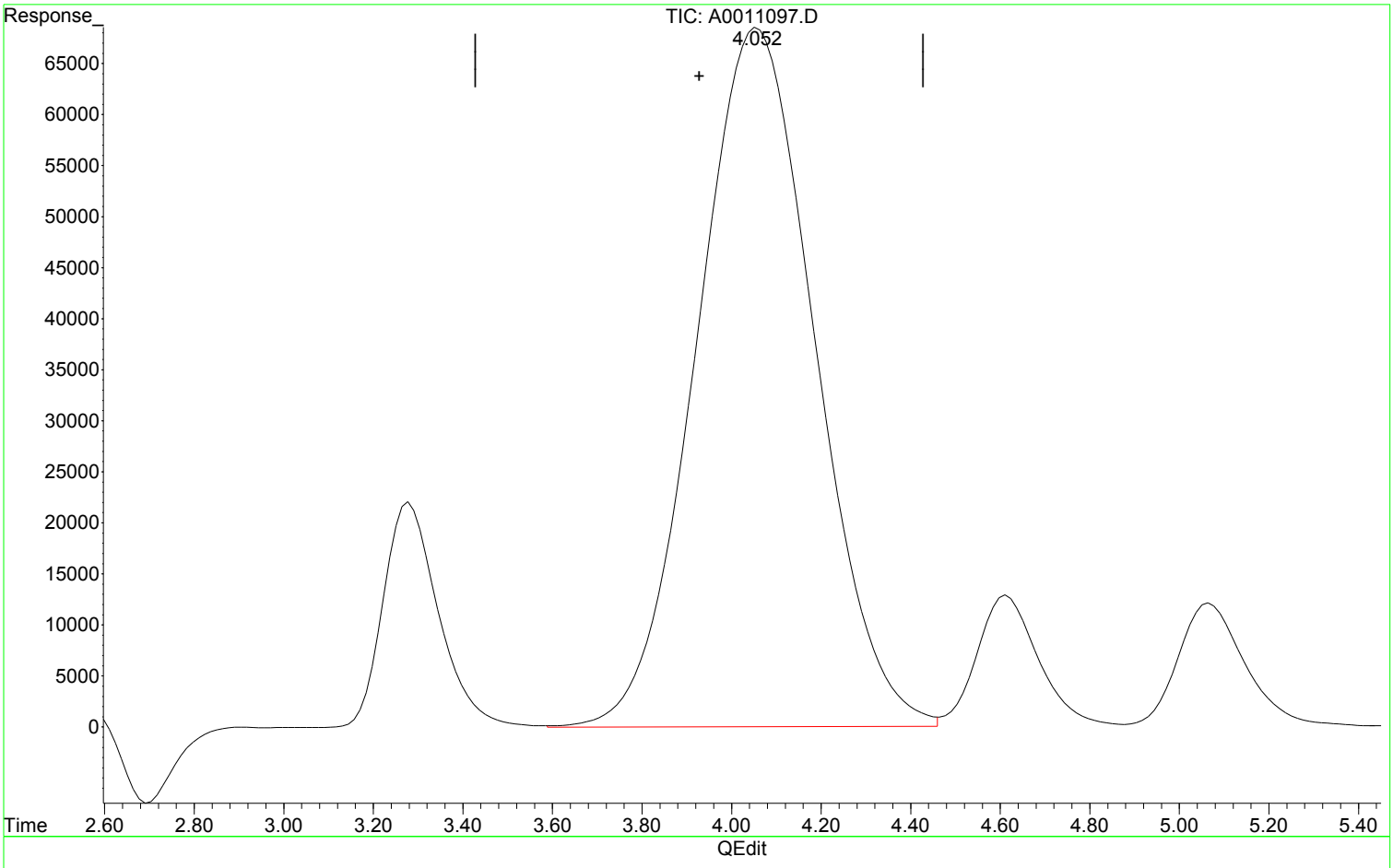
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011097.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 18:03:42
Operator : EDeGray
Sample : 20STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:23:24 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Mon Feb 05 14:44:20 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)

4.058min 213.865 ppm

response 12536569

Manual Integration:

Before

02/07/24

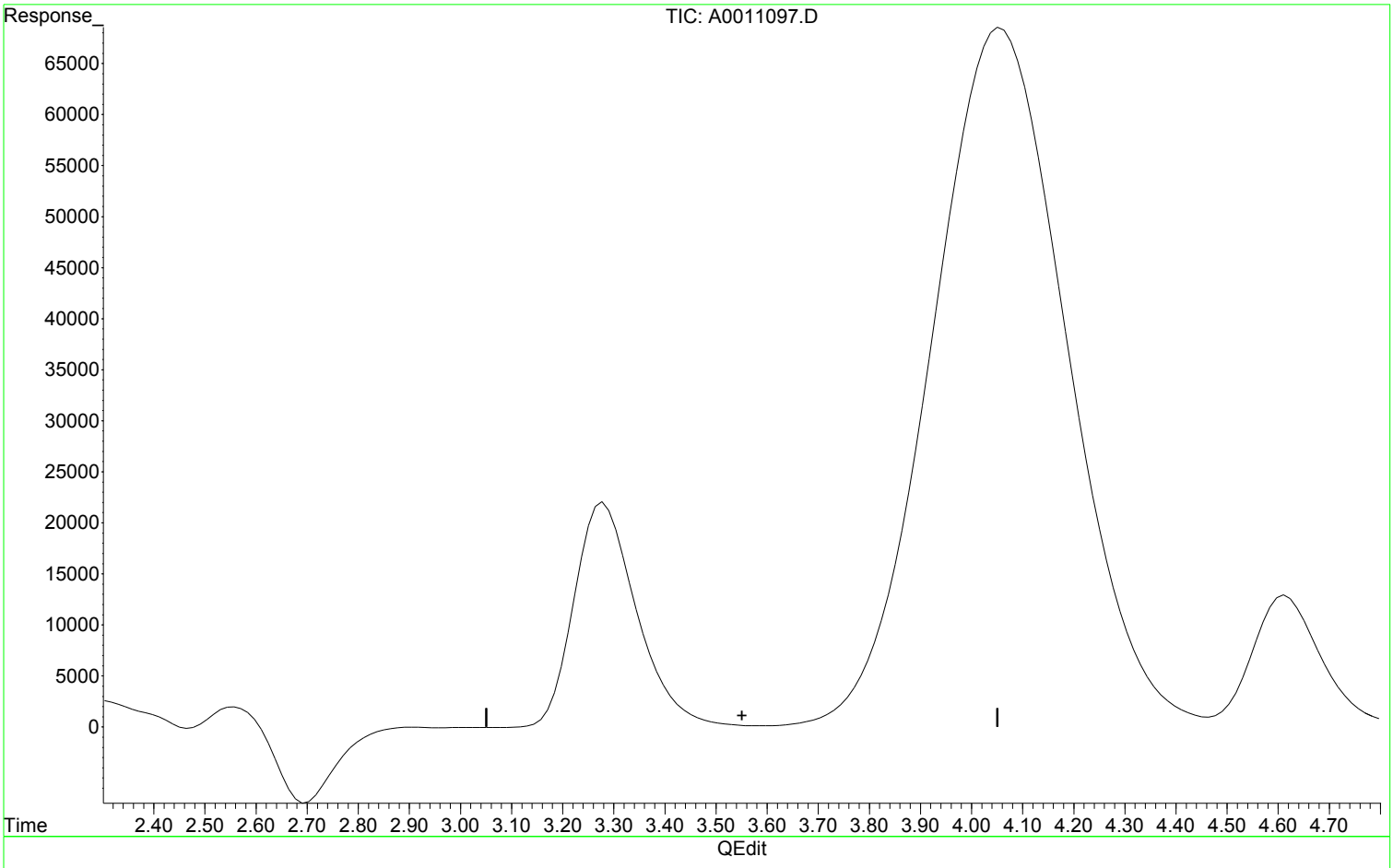
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011097.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 18:03:42
Operator : EDeGray
Sample : 20STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:23:24 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Mon Feb 05 14:44:20 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(2) Pyruvic acid (T)

3.551min 0.000 ppm

response 0

Manual Integration:

Before

02/07/24

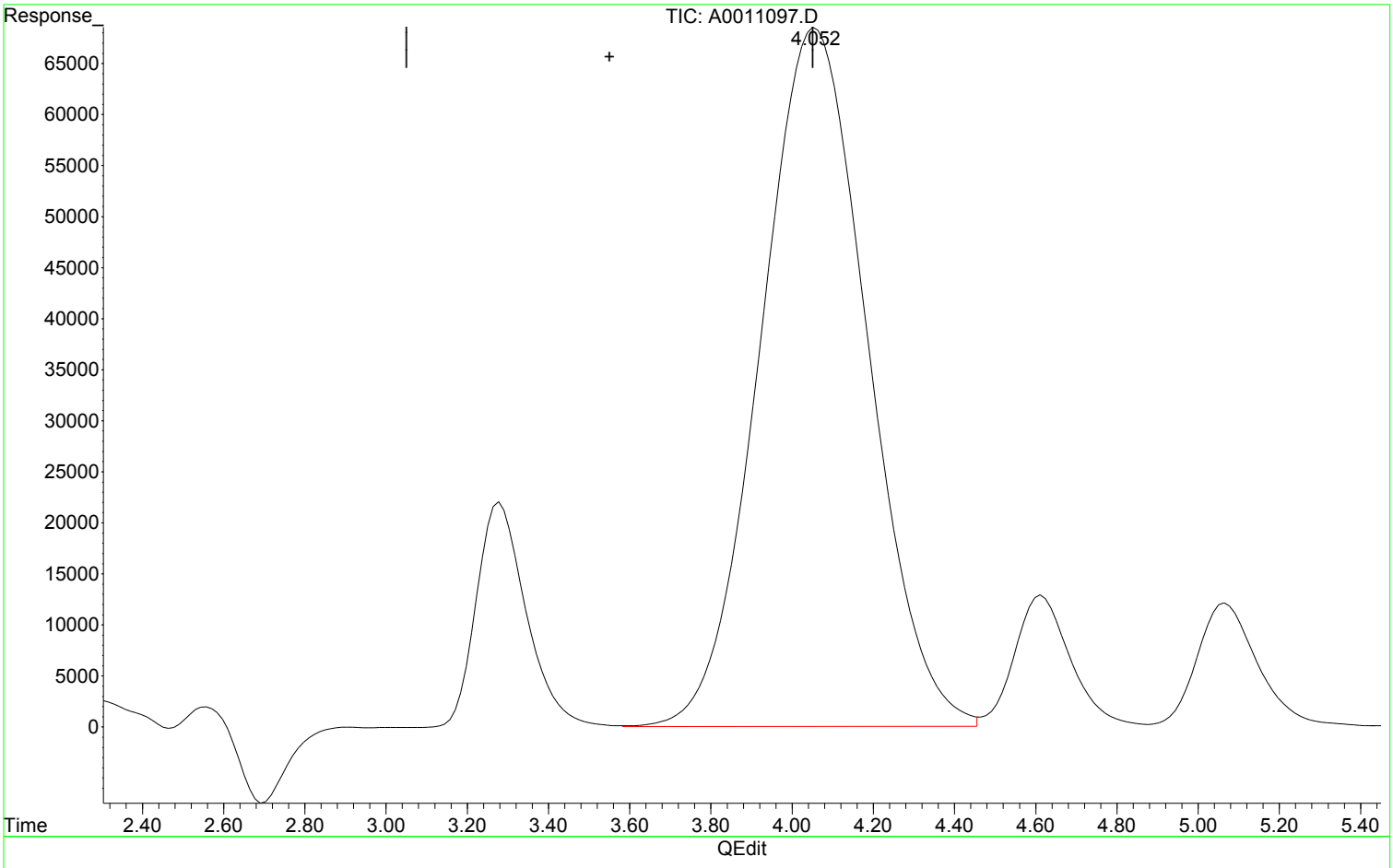
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011097.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 18:03:42
Operator : EDeGray
Sample : 20STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:23:24 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Mon Feb 05 14:44:20 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(2) Pyruvic acid (T)

4.052min 19.193 ppm m

response 12534028

Manual Integration:

After

Peak not found.

02/07/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011096.D Wrong date/time, EDG 2/8/24
Signal(s) : dad1A.ch
Acq On : ~~30-Dec-2000, 00:06:40~~ 17:14:19 02/06/24
Operator : EDeGray
Sample : 10STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:45 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.274	888371	4.710	ppm	m
2) T	Pyruvic acid	4.059	5988600	4.778	ppm	
3) T	Lactic Acid	4.618	578528	4.774	ppm	
4) T	Acetic Acid	5.062	580839	4.642	ppm	m
5) T	Propionic Acid	12.294	588476	5.007	ppm	
6) T	Butyric Acid	37.434	588612	5.175	ppm	

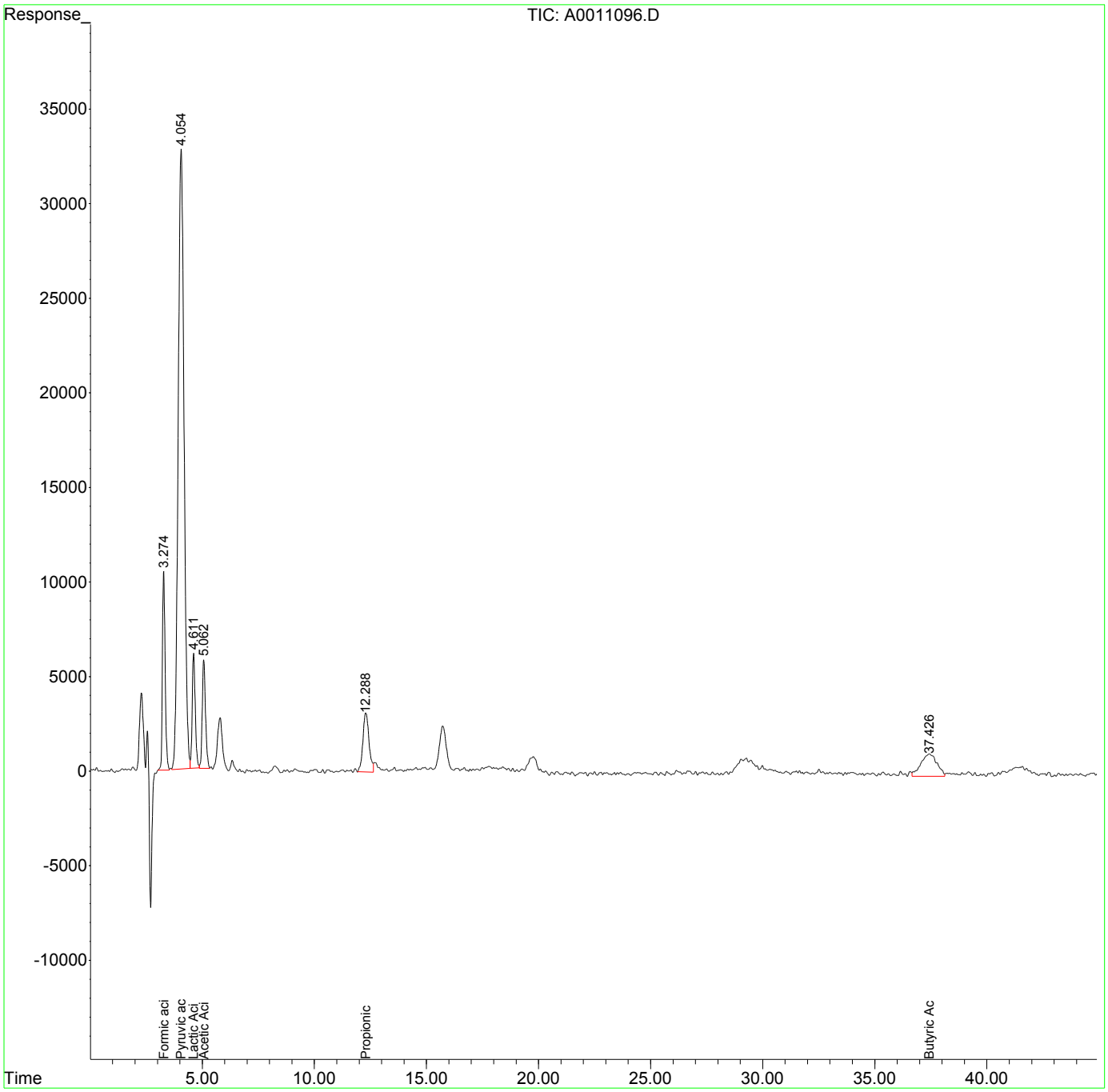
(f)=RT Delta > 1/2 Window (m)=manual int.

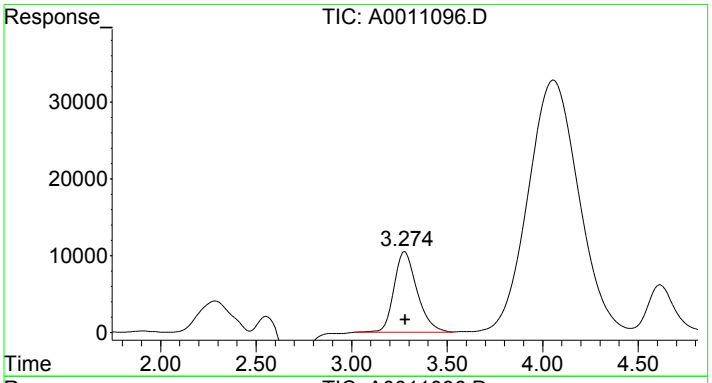
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011096.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:06:40
Operator : EDeGray
Sample : 10STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:45 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

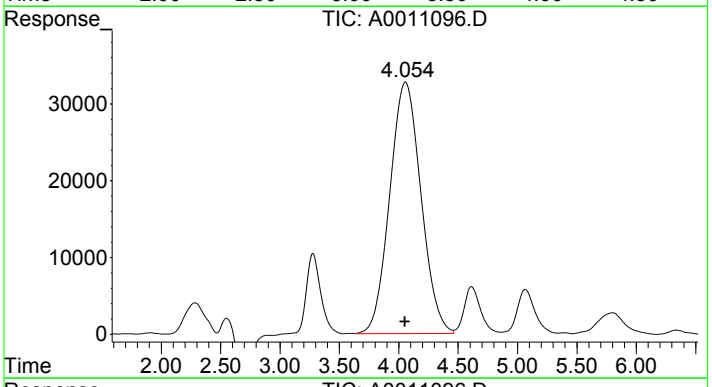
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





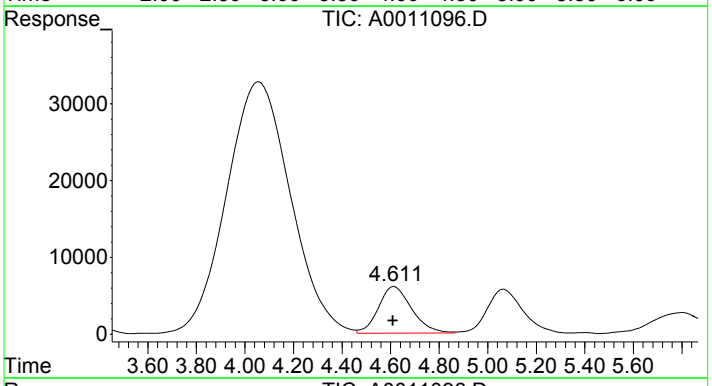
#1 Formic acid

R.T.: 3.274 min
Delta R.T.: -0.008 min
Response: 888371
Conc: 4.71 ppm m



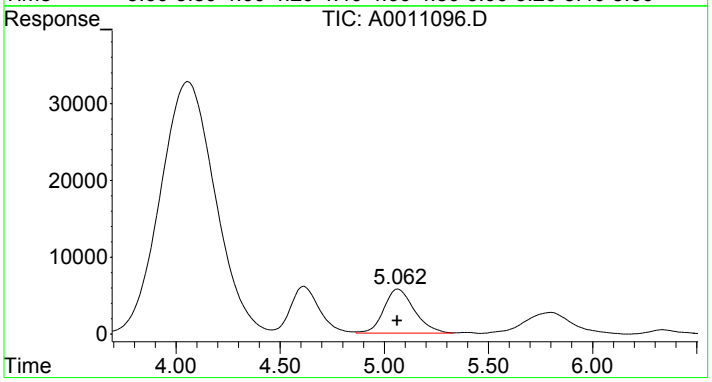
#2 Pyruvic acid

R.T.: 4.059 min
Delta R.T.: 0.007 min
Response: 5988600
Conc: 4.78 ppm



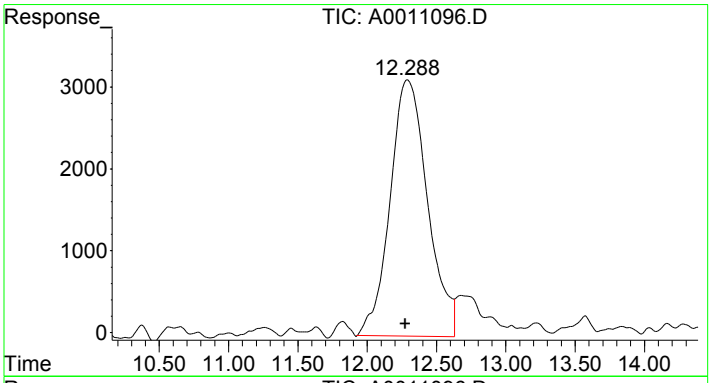
#3 Lactic Acid

R.T.: 4.618 min
Delta R.T.: 0.009 min
Response: 578528
Conc: 4.77 ppm



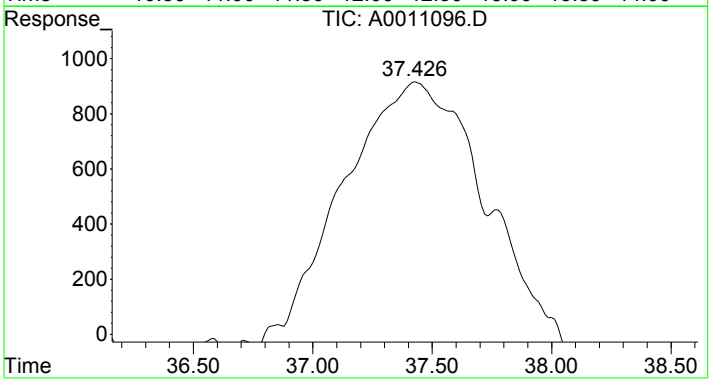
#4 Acetic Acid

R.T.: 5.062 min
Delta R.T.: 0.000 min
Response: 580839
Conc: 4.64 ppm m



#5 Propionic Acid

R.T.: 12.294 min
Delta R.T.: 0.019 min
Response: 588476
Conc: 5.01 ppm



#6 Butyric Acid

R.T.: 37.434 min
Delta R.T.: 0.058 min
Response: 588612
Conc: 5.17 ppm

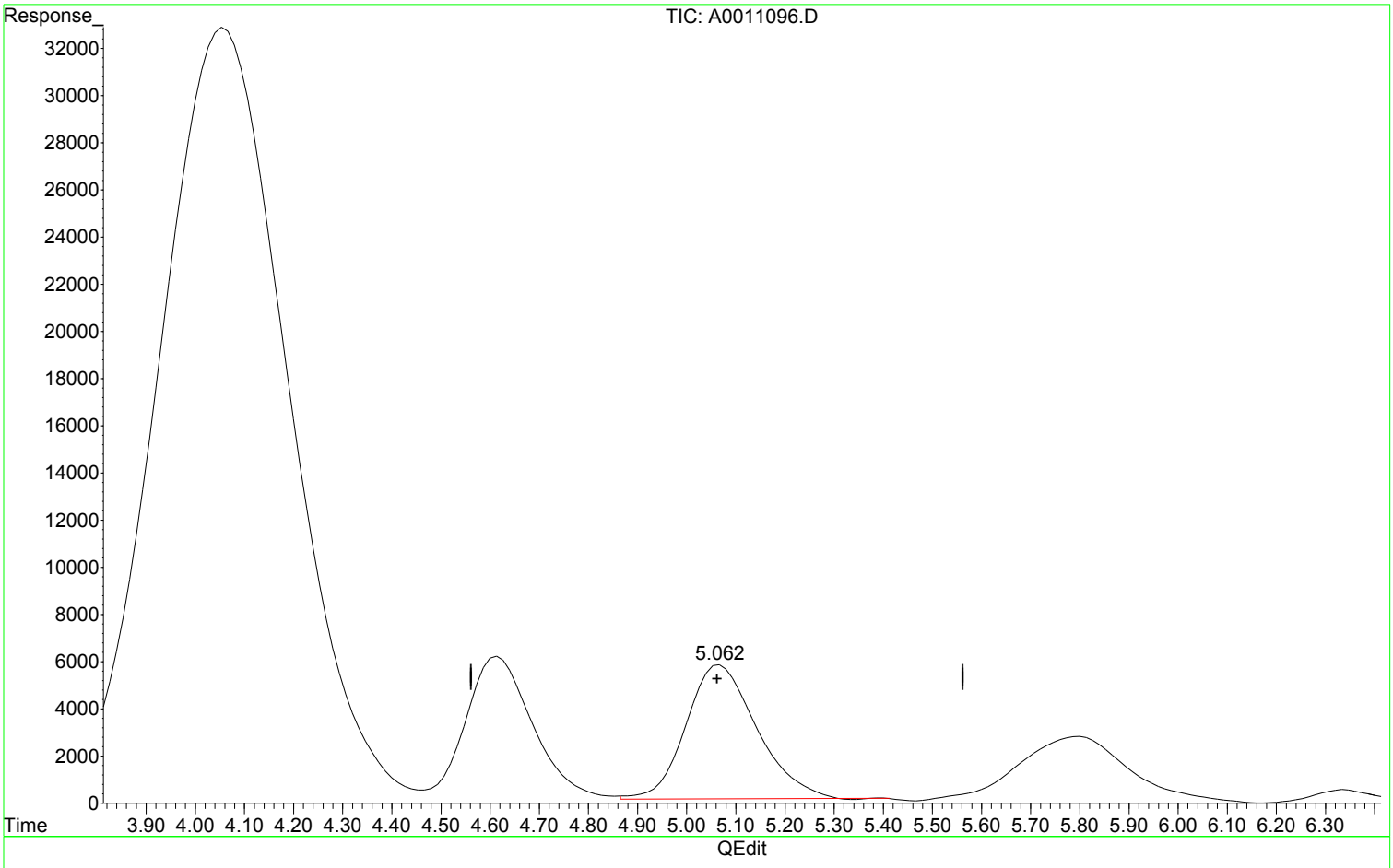
1st EDG 02/08/24
2nd AF 02/20/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011096.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:06:40
Operator : EDeGray
Sample : 10STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:45 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

5.069min 4.565 ppm

response 571126

Manual Integration:

Before

02/07/24

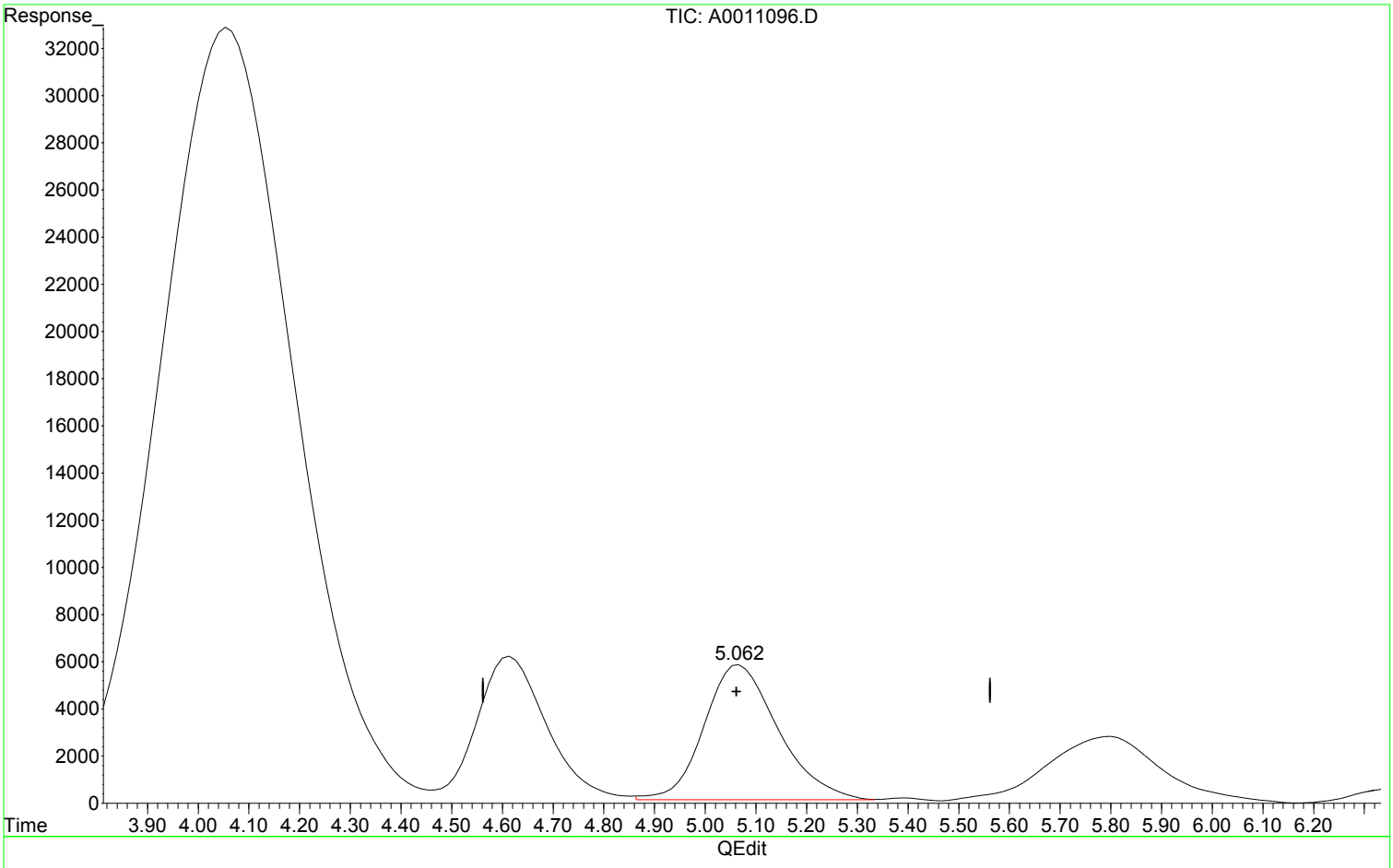
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011096.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:06:40
Operator : EDeGray
Sample : 10STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:45 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

5.062min 4.642 ppm m

response 580839

Manual Integration:

After

Poor integration.

02/07/24

(+) = Expected Retention Time

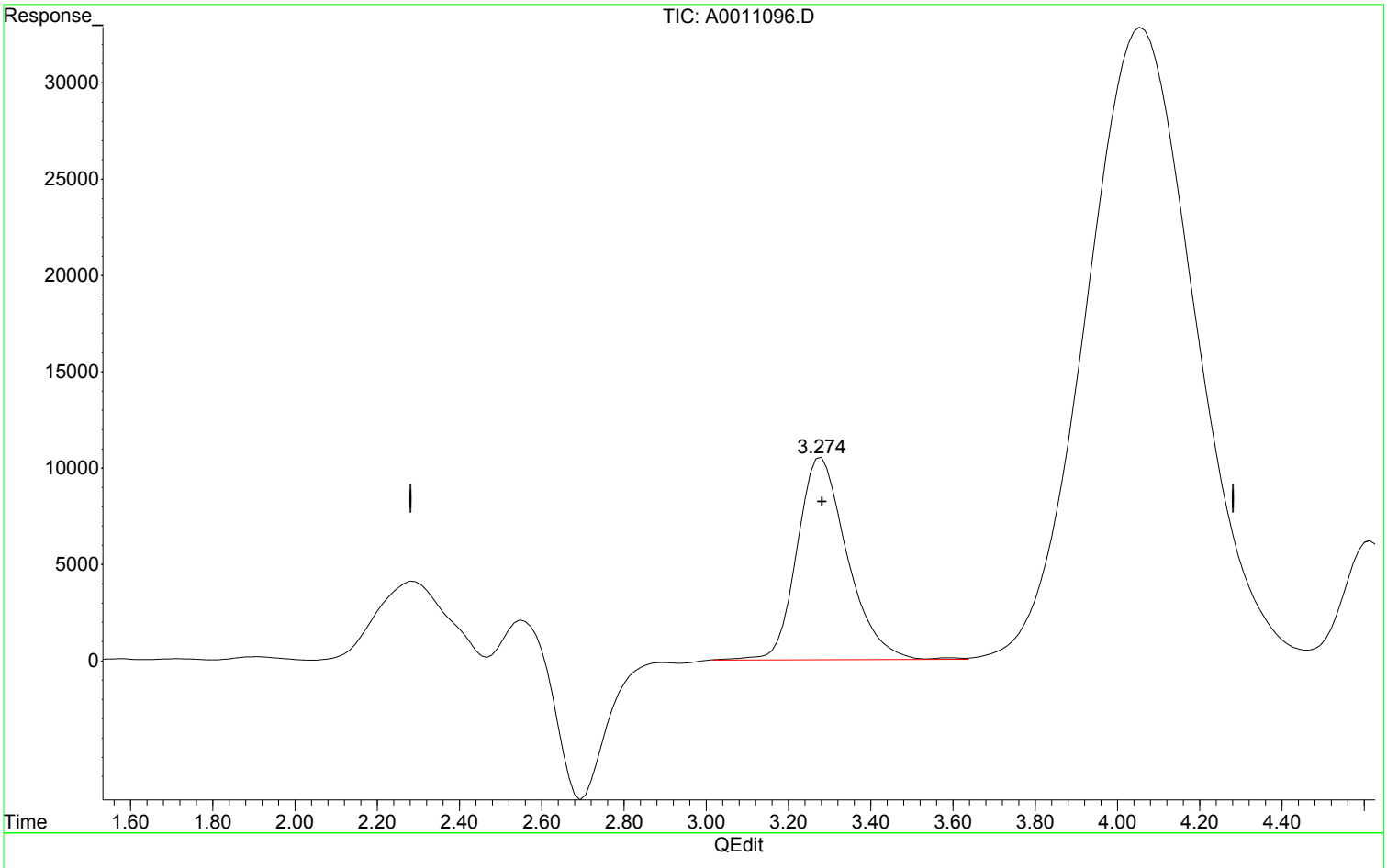
1st EDG 02/08/24
2nd AF 02/20/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011096.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:06:40
Operator : EDeGray
Sample : 10STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:45 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)

3.282min 4.716 ppm

response 889476

Manual Integration:

Before

02/07/24

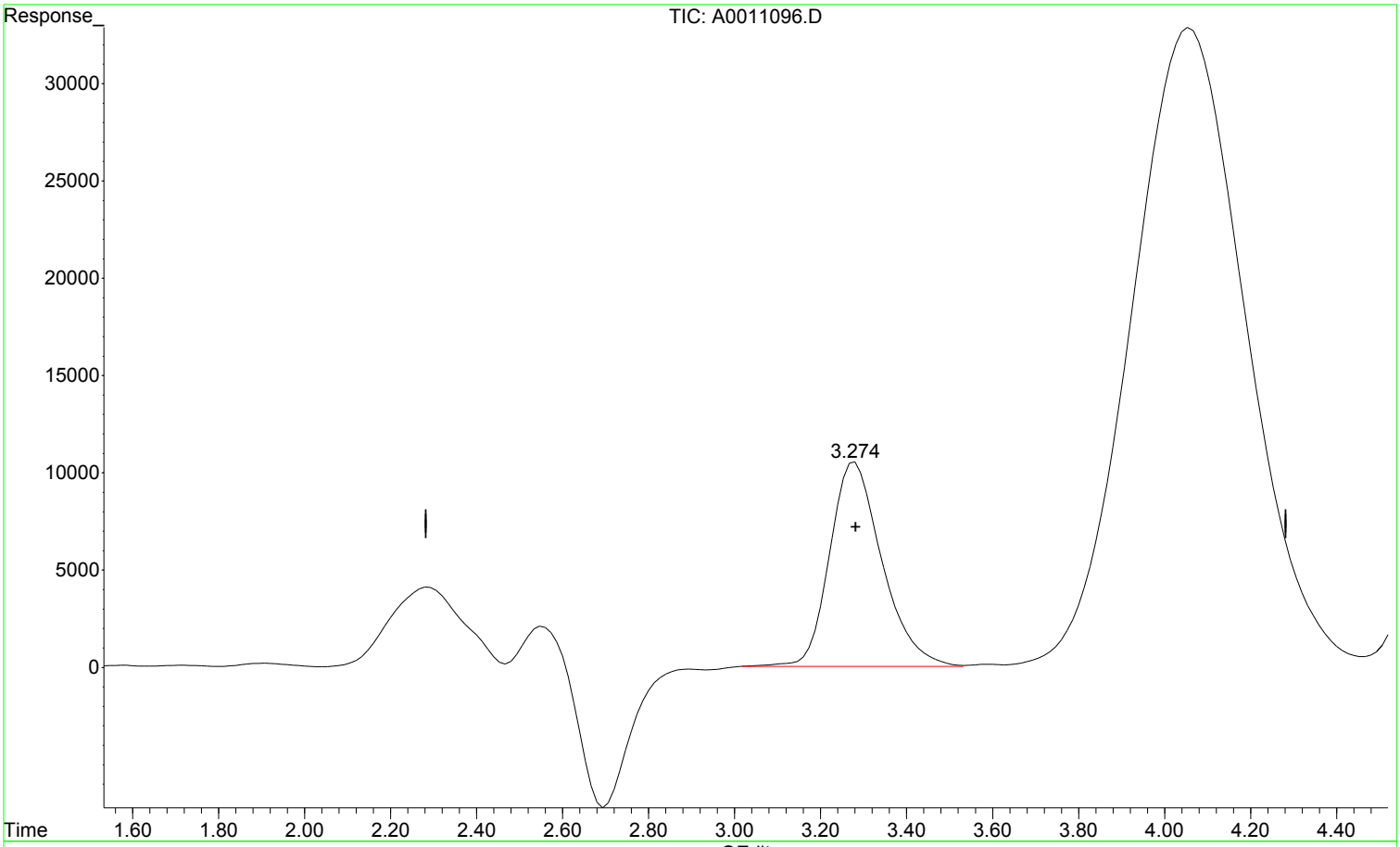
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011096.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:06:40
Operator : EDeGray
Sample : 10STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:45 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)

3.274min 4.710 ppm m

response 888371

Manual Integration:

After

Poor integration.

02/07/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011095.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 16:29:14
Operator : EDeGray
Sample : 5STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:43 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.272	478779	2.538	ppm	m
2) T	Pyruvic acid	4.058	3045970	2.430	ppm	
3) T	Lactic Acid	4.605	306475	2.529	ppm	m
4) T	Acetic Acid	5.061	309218	2.471	ppm	m
5) T	Propionic Acid	12.287	306893	2.611	ppm	m
6) T	Butyric Acid	37.237	278747	2.451	ppm	m

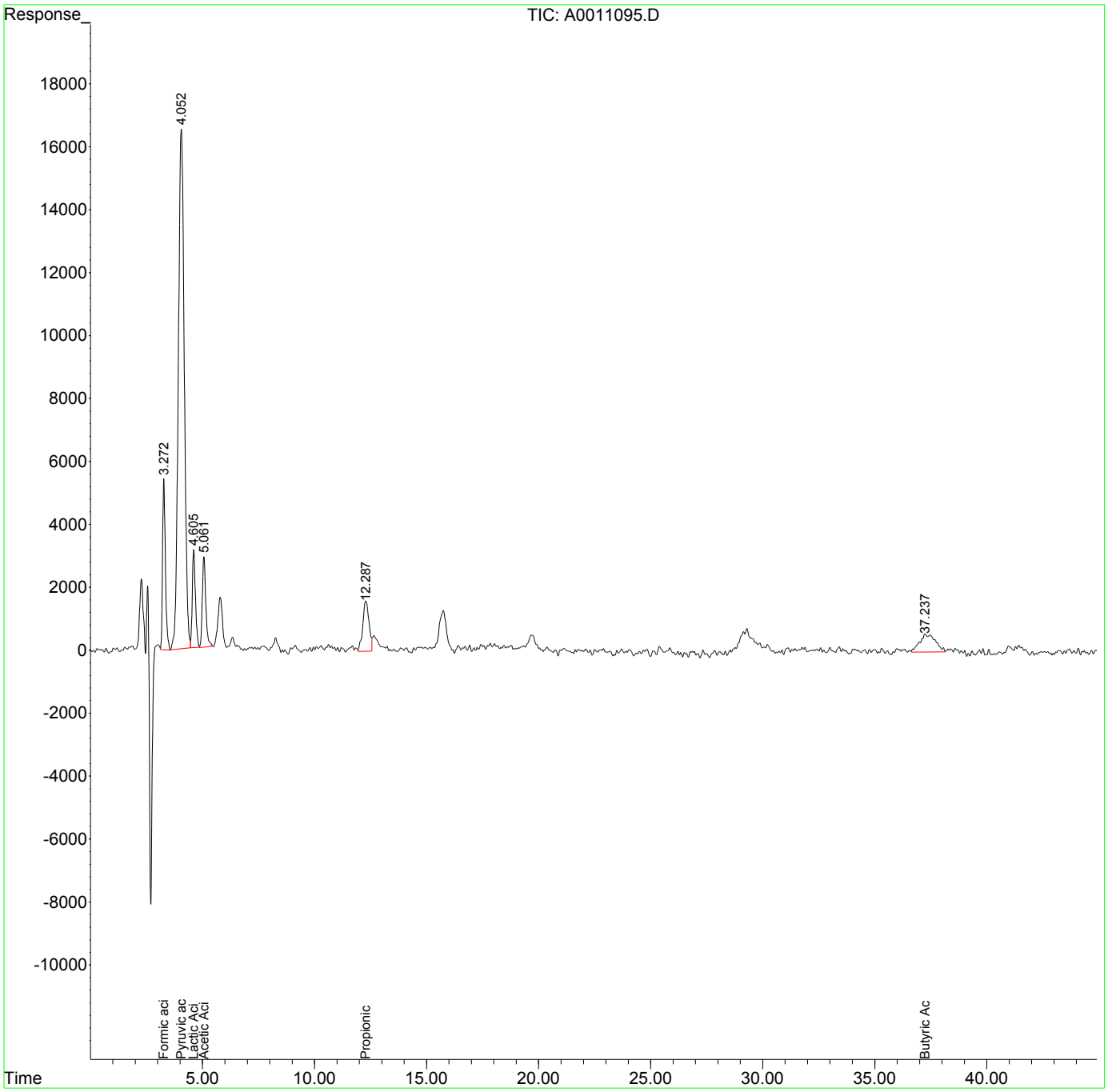
(f)=RT Delta > 1/2 Window (m)=manual int.

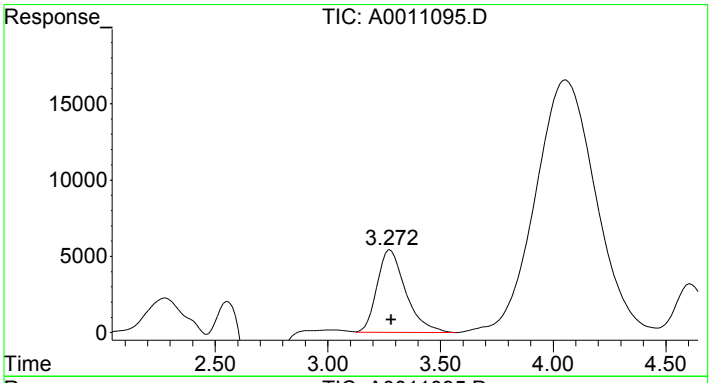
1st EDG 02/08/24
2nd AF 02/20/24

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011095.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 16:29:14
Operator : EDeGray
Sample : 5STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:43 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

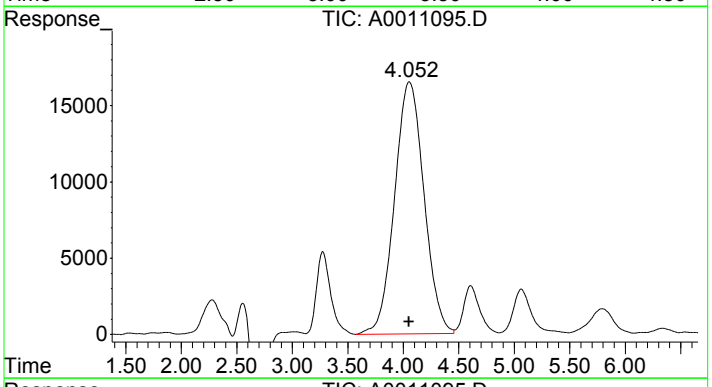
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





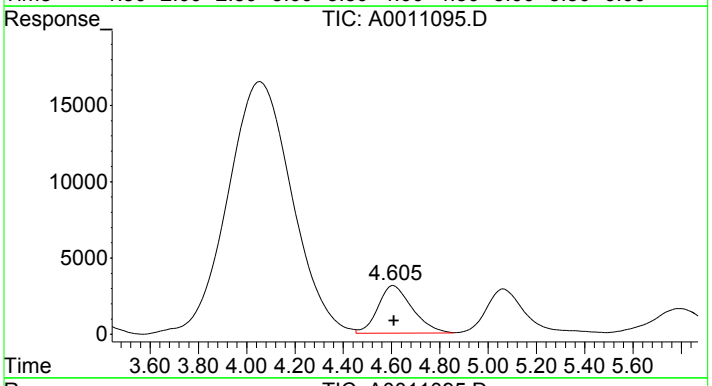
#1 Formic acid

R.T.: 3.272 min
Delta R.T.: -0.010 min
Response: 478779
Conc: 2.54 ppm m



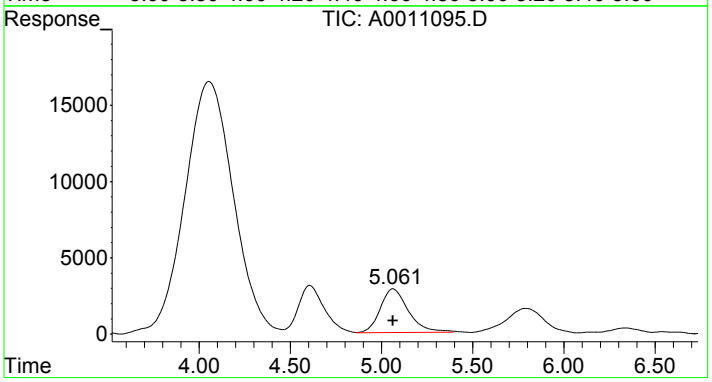
#2 Pyruvic acid

R.T.: 4.058 min
Delta R.T.: 0.006 min
Response: 3045970
Conc: 2.43 ppm



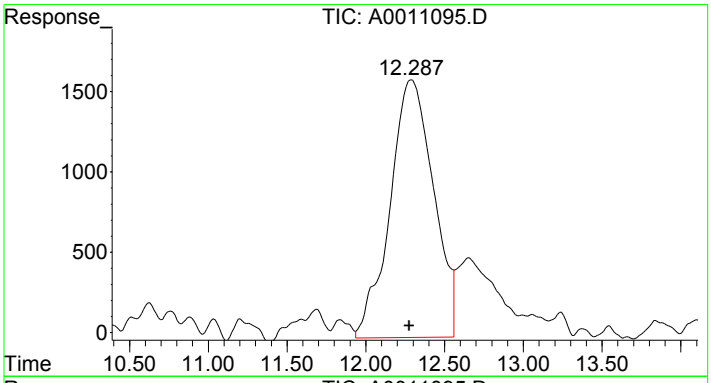
#3 Lactic Acid

R.T.: 4.605 min
Delta R.T.: -0.004 min
Response: 306475
Conc: 2.53 ppm m



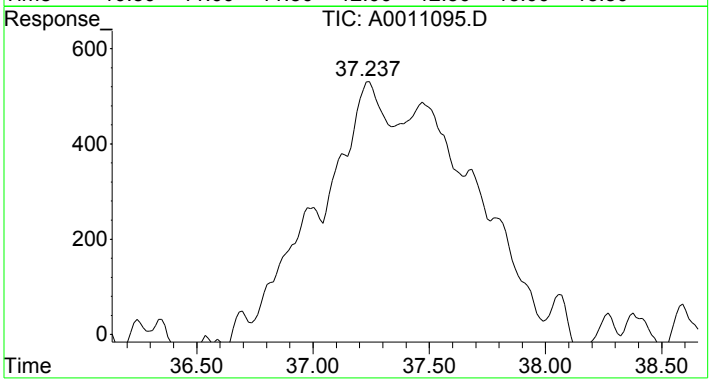
#4 Acetic Acid

R.T.: 5.061 min
Delta R.T.: -0.001 min
Response: 309218
Conc: 2.47 ppm m



#5 Propionic Acid

R.T.: 12.287 min
Delta R.T.: 0.012 min
Response: 306893
Conc: 2.61 ppm m



#6 Butyric Acid

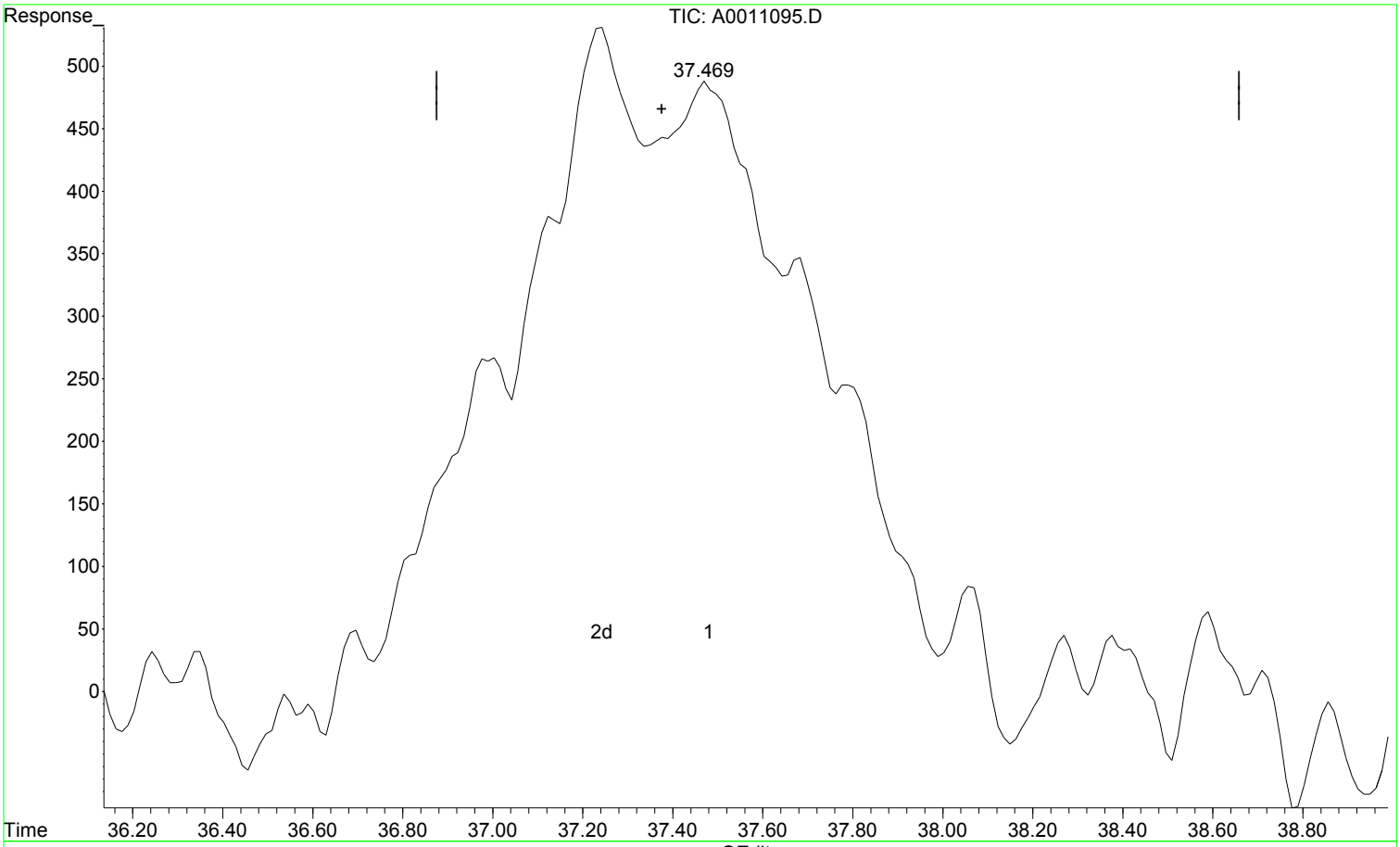
R.T.: 37.237 min
Delta R.T.: -0.139 min
Response: 278747
Conc: 2.45 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011095.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 16:29:14
Operator : EDeGray
Sample : 5STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:43 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

37.480min 1.636 ppm

response 186073

Manual Integration:

Before

02/07/24

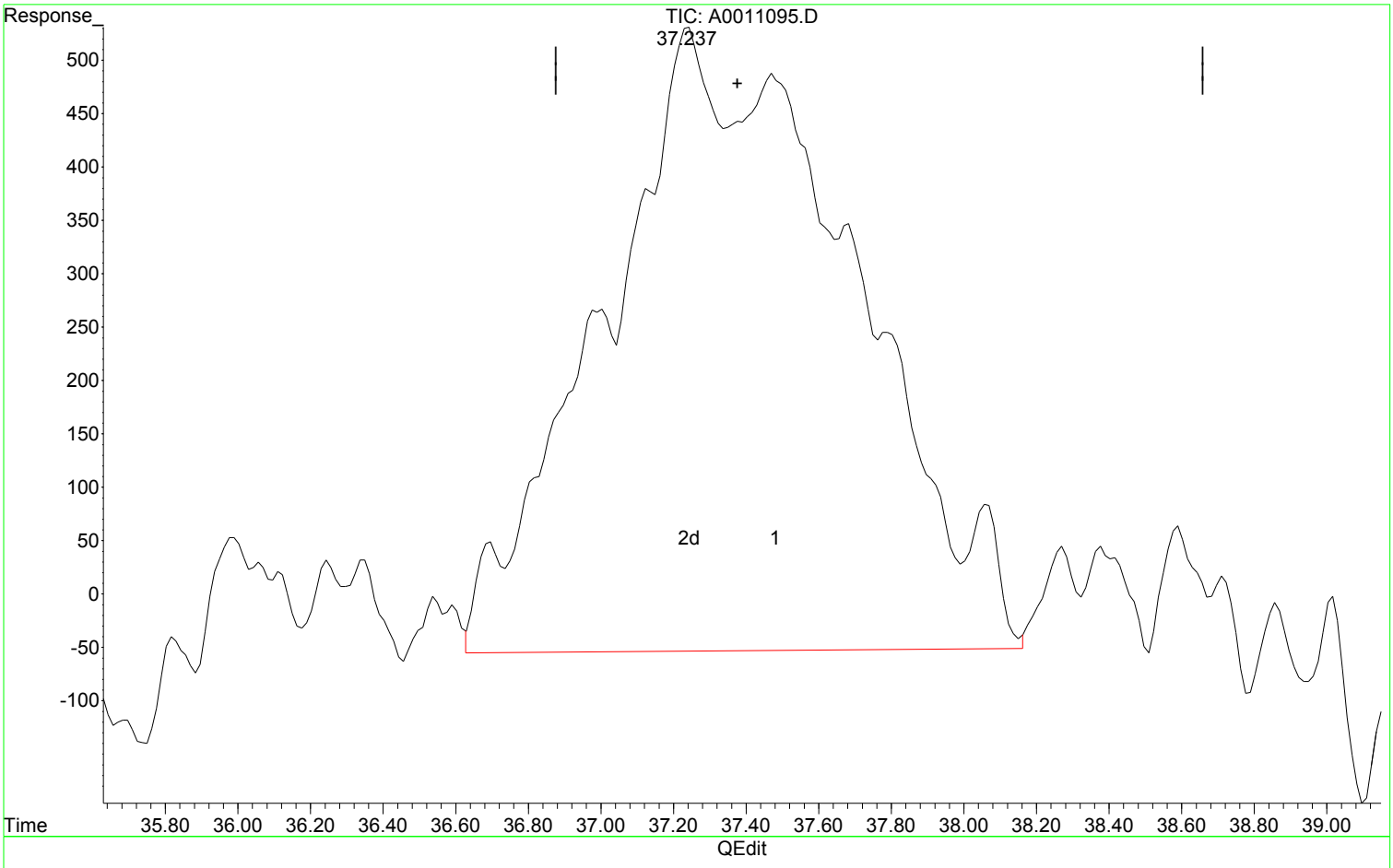
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011095.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 16:29:14
Operator : EDeGray
Sample : 5STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:43 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

37.237min 2.451 ppm m

response 278747

Manual Integration:

After

Poor integration.

02/07/24

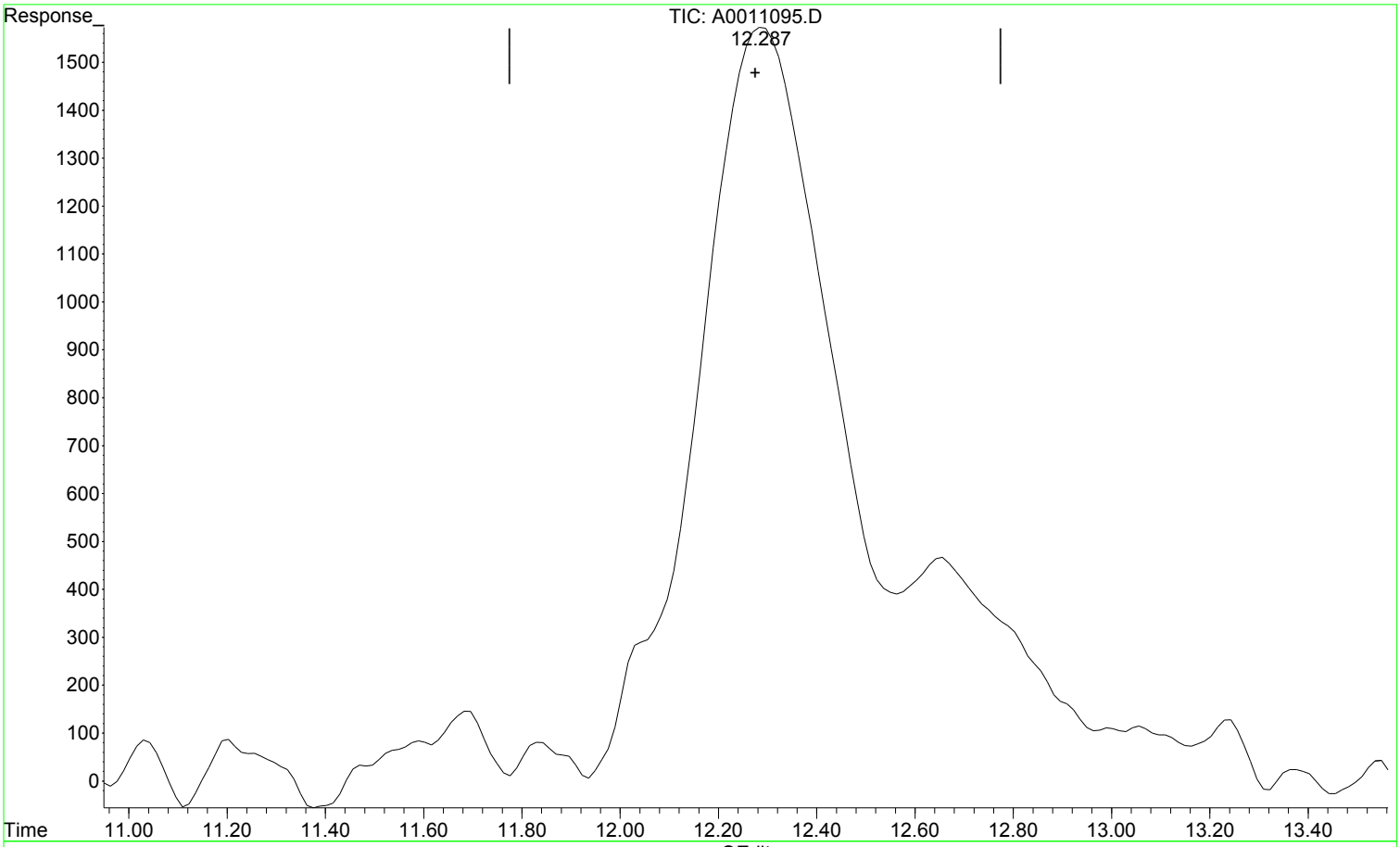
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011095.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 16:29:14
Operator : EDeGray
Sample : 5STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:43 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

12.292min 2.996 ppm

response 352111

Manual Integration:

Before

02/07/24

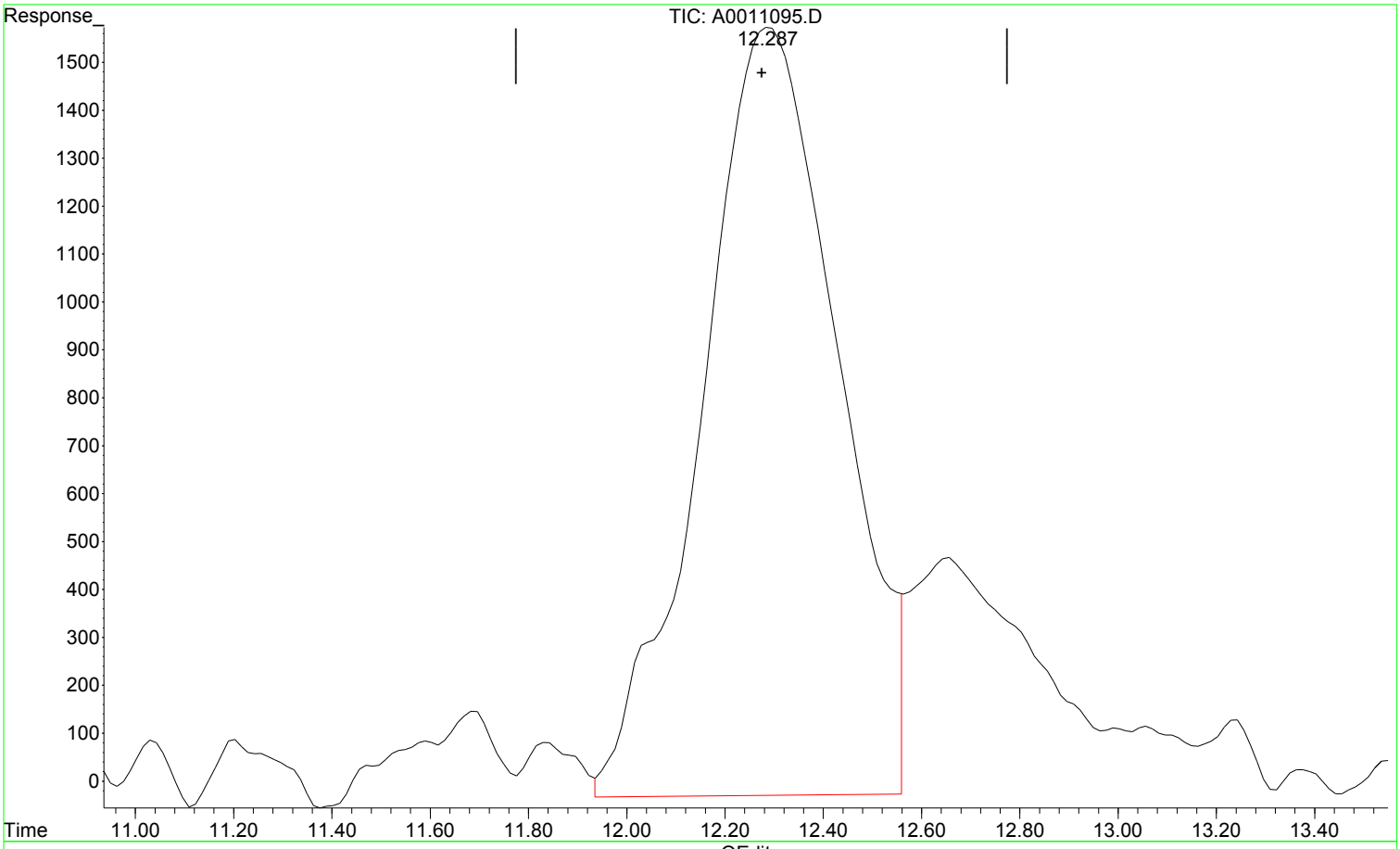
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011095.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 16:29:14
Operator : EDeGray
Sample : 5STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:43 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

12.287min 2.611 ppm m

response 306893

Manual Integration:

After

Poor integration.

02/07/24

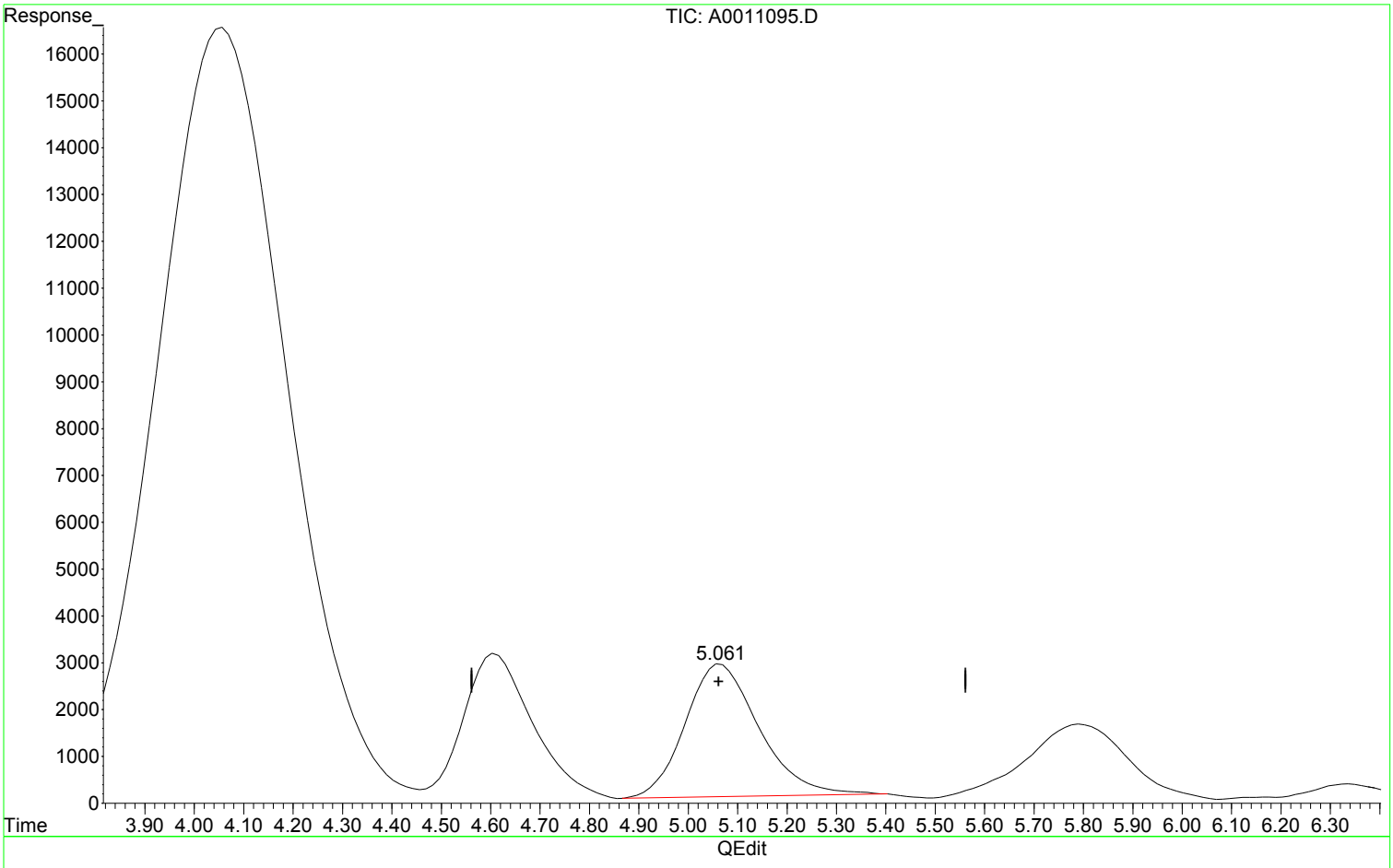
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011095.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 16:29:14
Operator : EDeGray
Sample : 5STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:43 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

5.067min 2.352 ppm

response 294294

Manual Integration:

Before

02/07/24

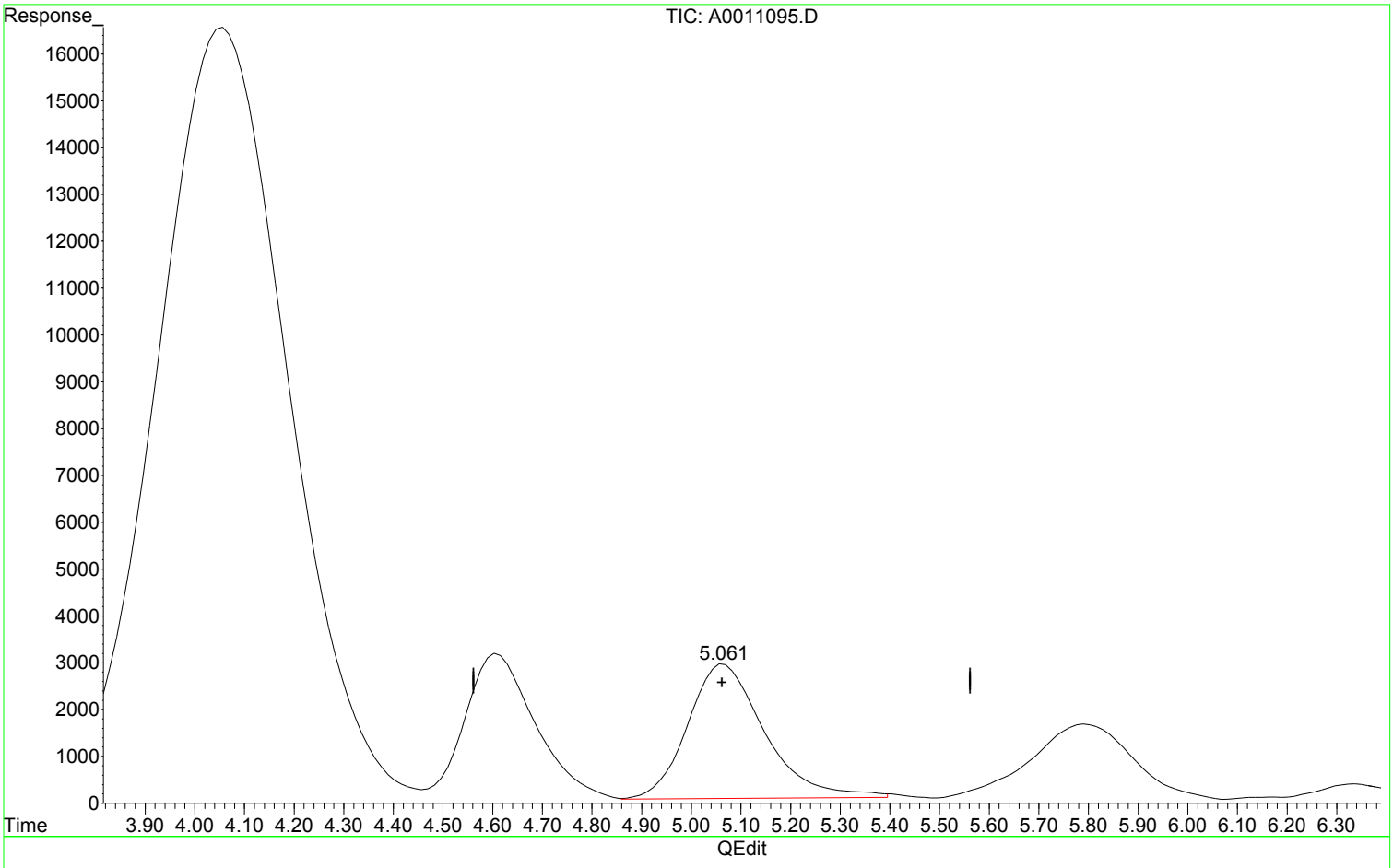
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011095.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 16:29:14
Operator : EDeGray
Sample : 5STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:43 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

5.061min 2.471 ppm m

response 309218

Manual Integration:

After

Poor integration.

02/07/24

(+) = Expected Retention Time

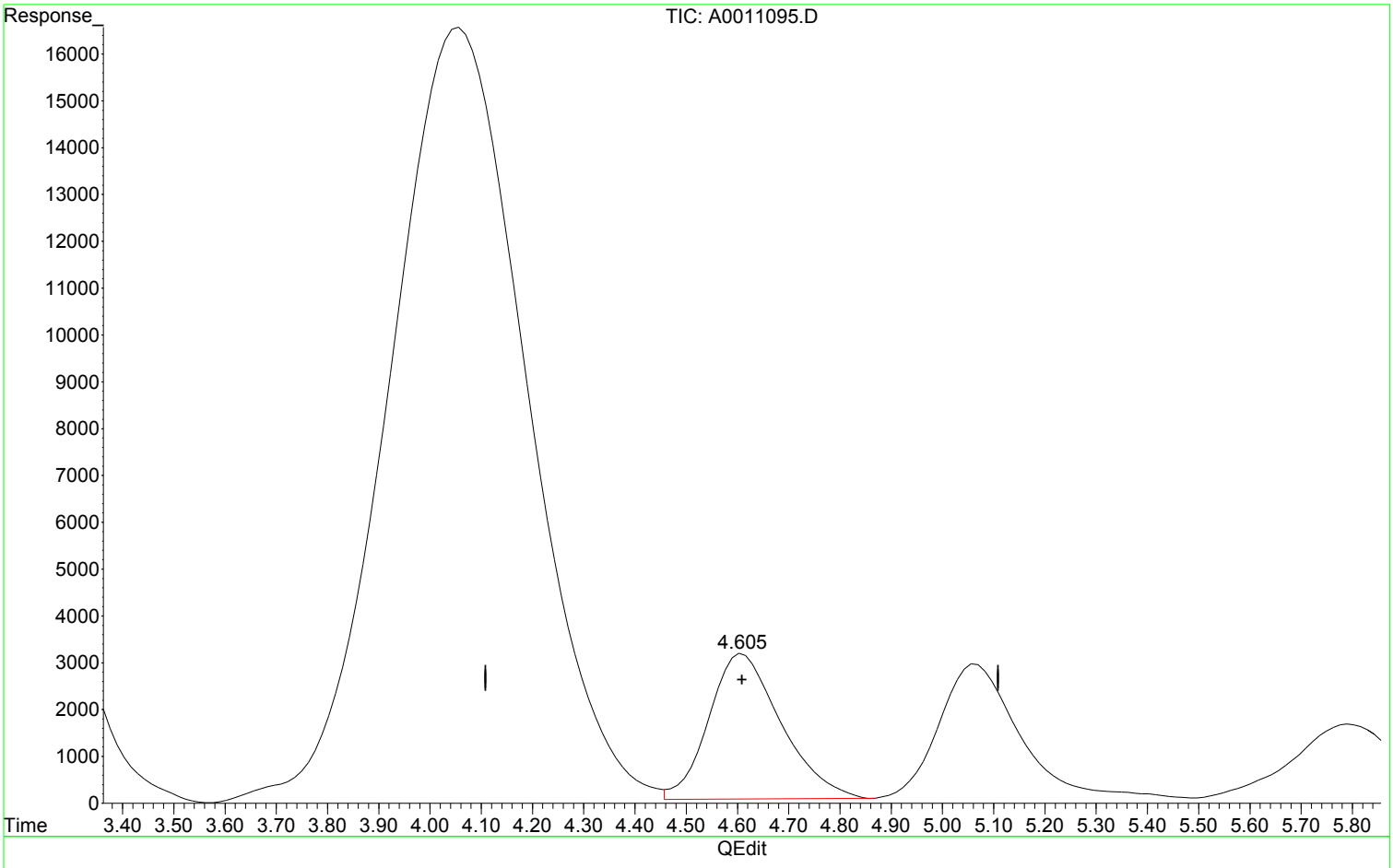
1st EDG 02/08/24
2nd AF 02/20/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011095.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 16:29:14
Operator : EDeGray
Sample : 5STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:43 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)

4.612min 2.517 ppm

response 305069

Manual Integration:

Before

02/07/24

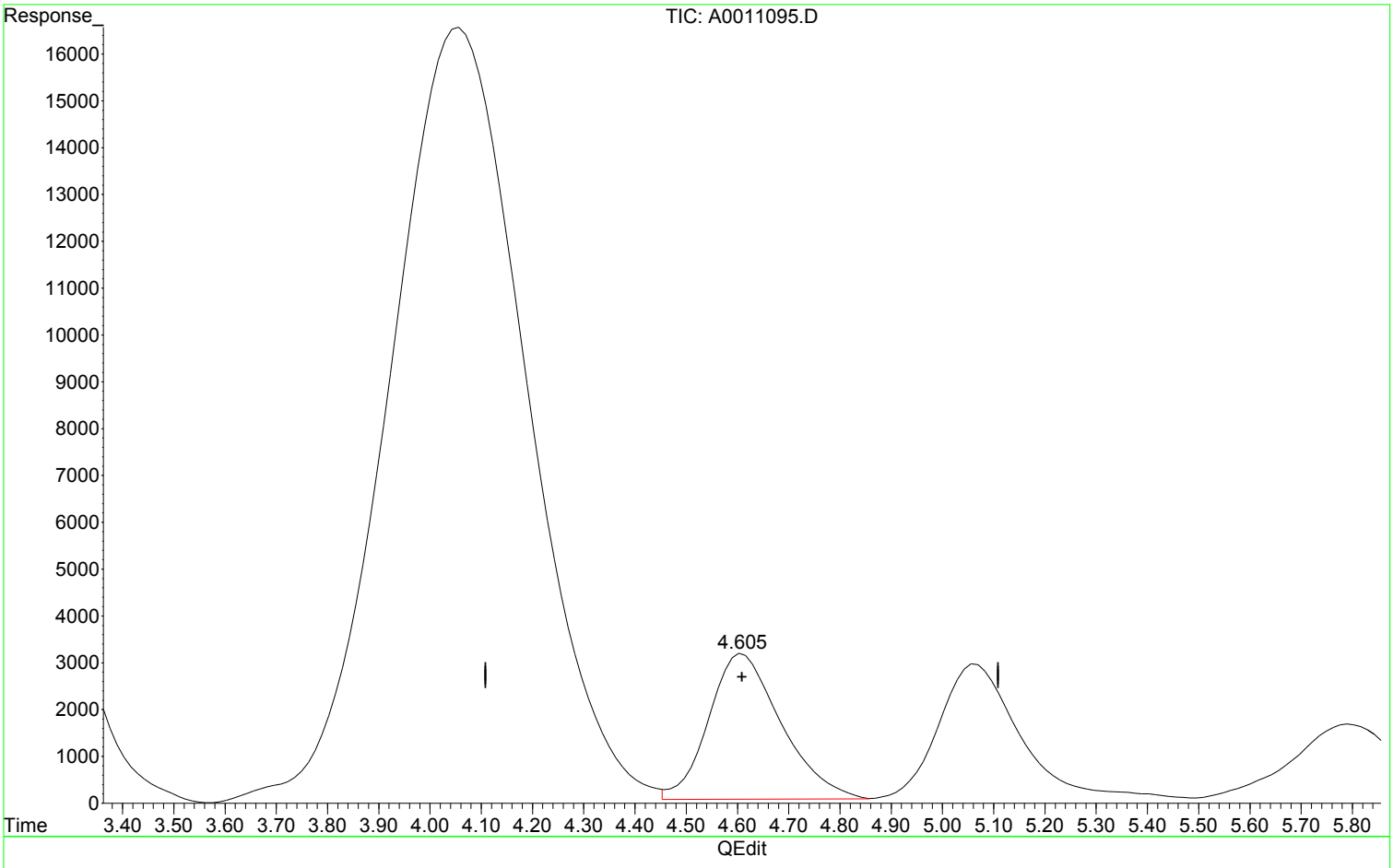
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011095.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 16:29:14
Operator : EDeGray
Sample : 5STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:43 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)

4.605min 2.529 ppm m

response 306475

Manual Integration:

After

Poor integration.

02/07/24

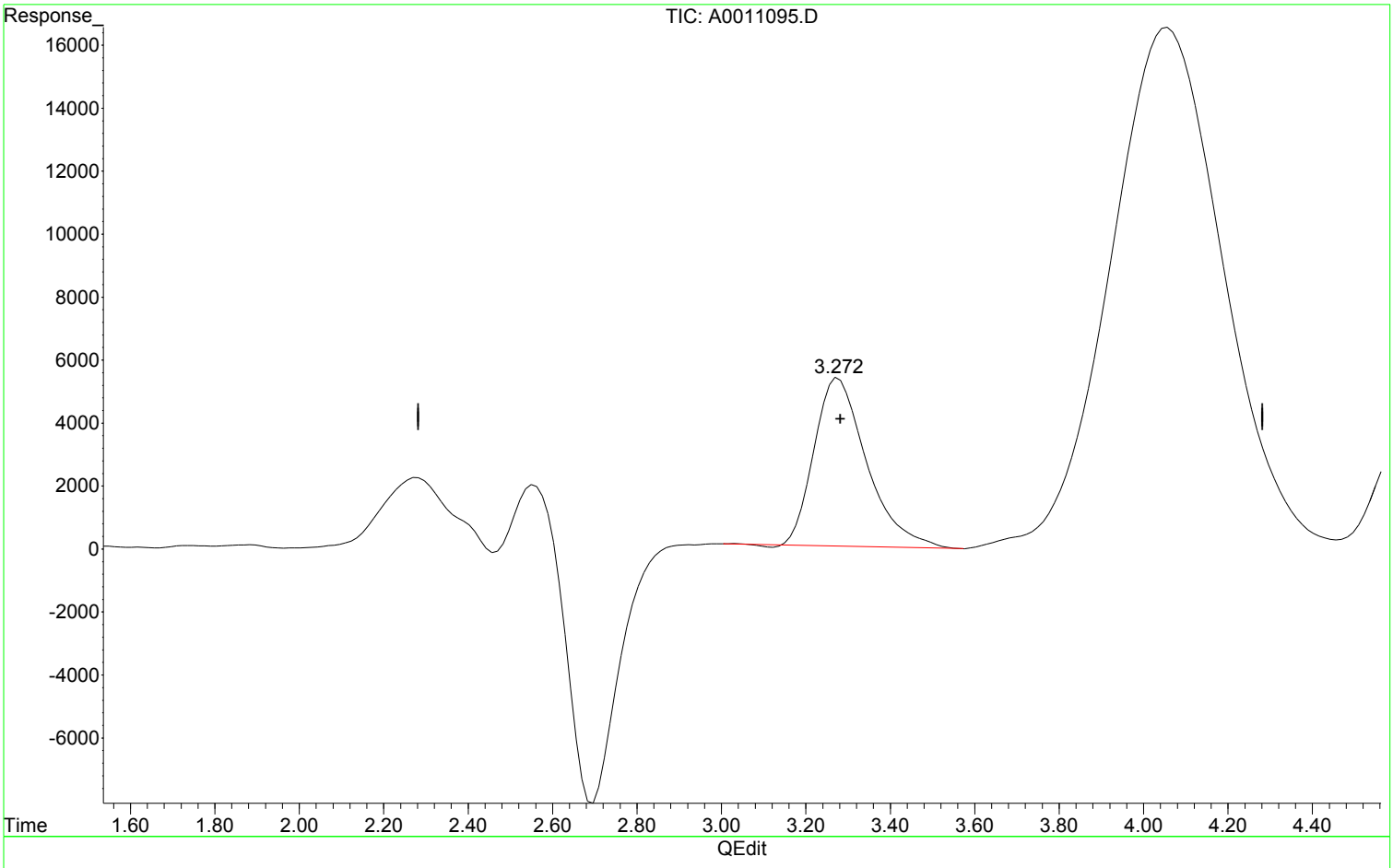
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011095.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 16:29:14
Operator : EDeGray
Sample : 5STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:43 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)

3.279min 2.445 ppm

response 461139

Manual Integration:

Before

02/07/24

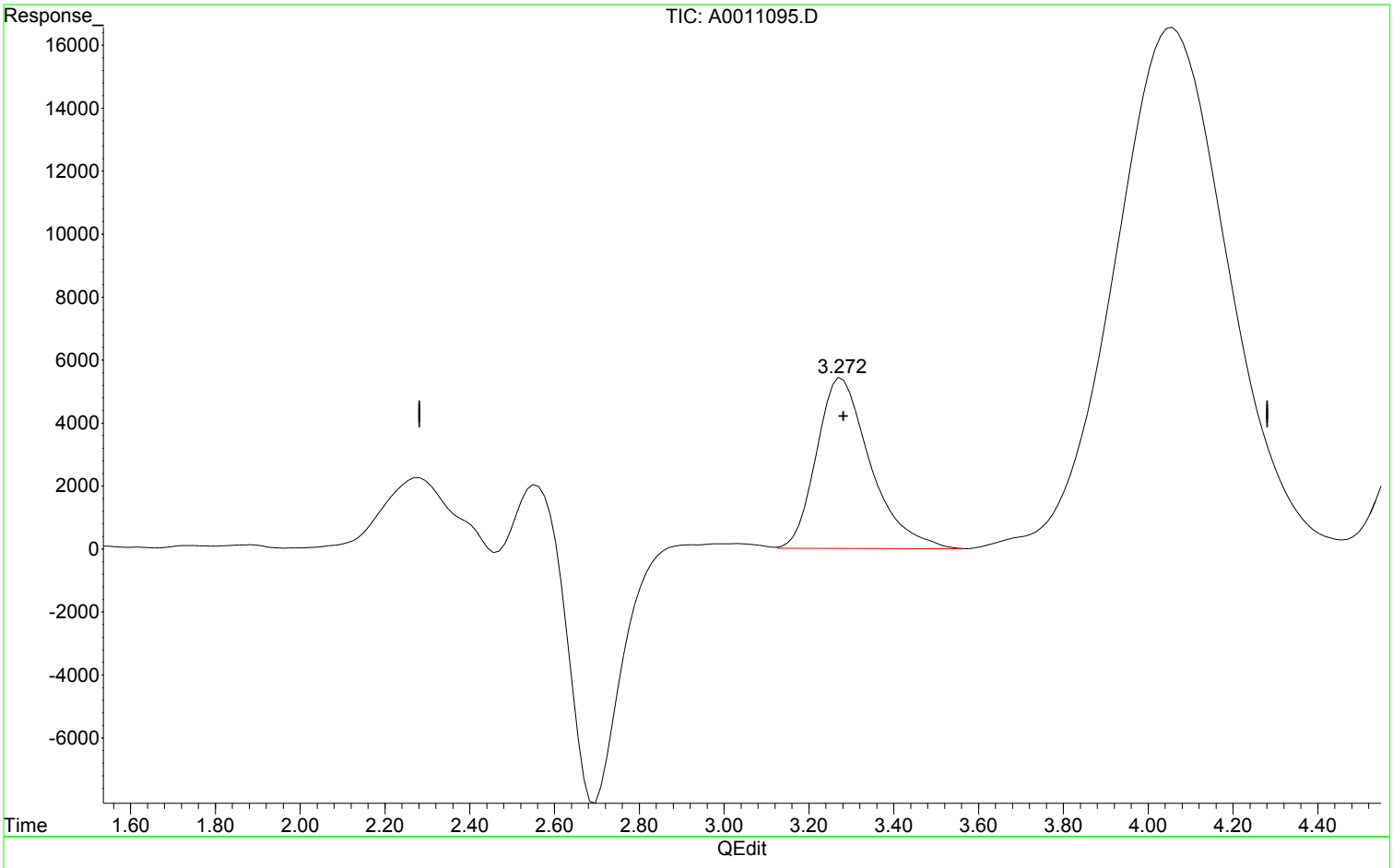
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011095.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 16:29:14
Operator : EDeGray
Sample : 5STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:43 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)

3.272min 2.538 ppm m

response 478779

Manual Integration:

After

Poor integration.

02/07/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011094.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 15:42:09
Operator : EDeGray
Sample : 2STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:41 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.273	211804	1.123	ppm	m
2) T	Pyruvic acid	4.060	1325030	1.057	ppm	
3) T	Lactic Acid	4.614	159976	1.320	ppm	
4) T	Acetic Acid	5.061	128208	1.025	ppm	m
5) T	Propionic Acid	12.304	150152	1.277	ppm	m
6) T	Butyric Acid	0.000	0	N.D.	ppm	d

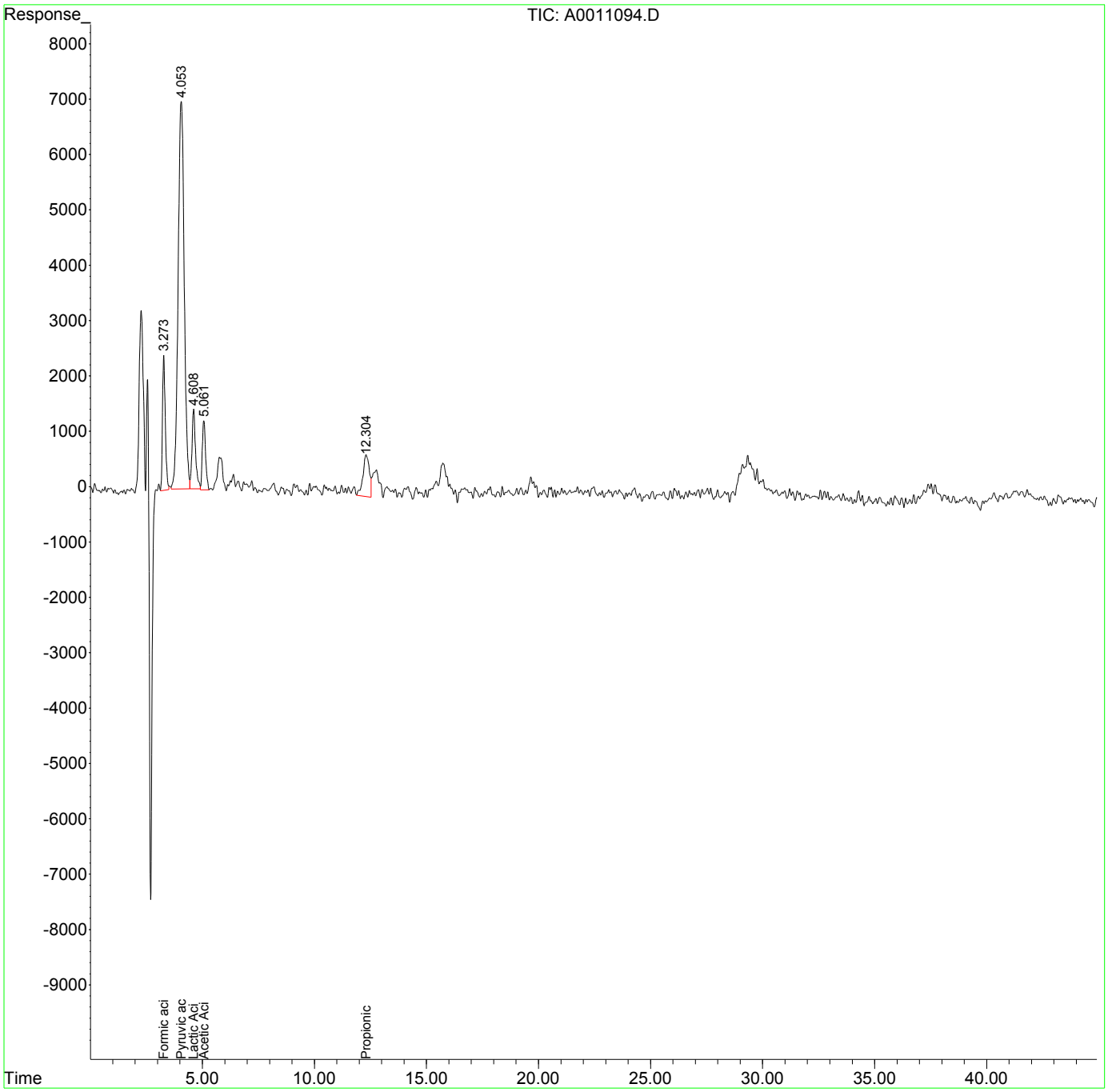
(f)=RT Delta > 1/2 Window (m)=manual int.

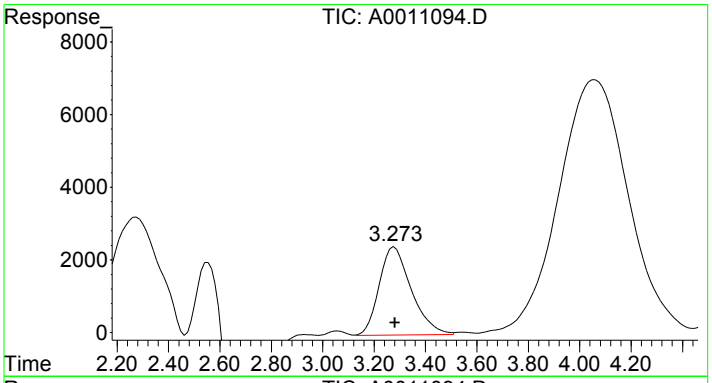
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011094.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 15:42:09
Operator : EDeGray
Sample : 2STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:41 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

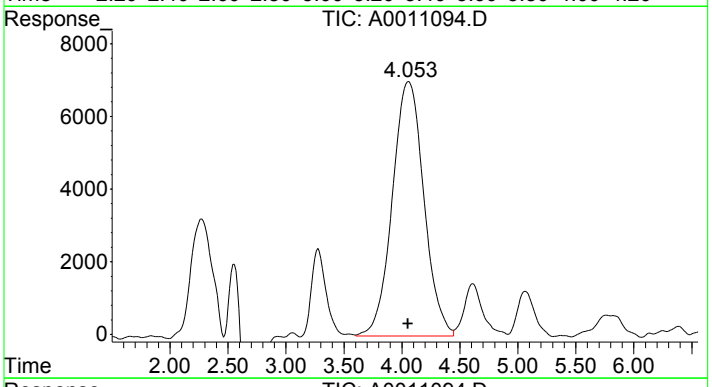
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





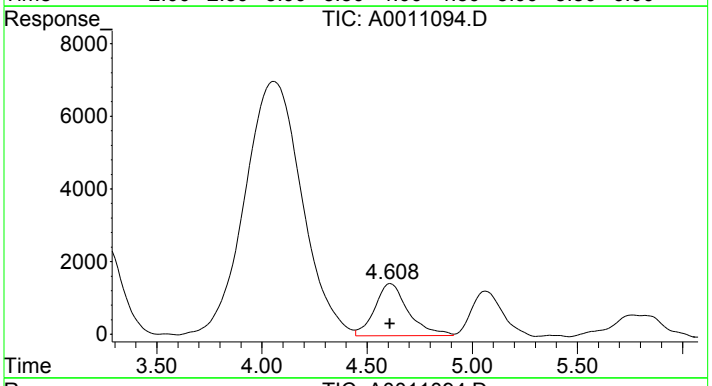
#1 Formic acid

R.T.: 3.273 min
Delta R.T.: -0.009 min
Response: 211804
Conc: 1.12 ppm m



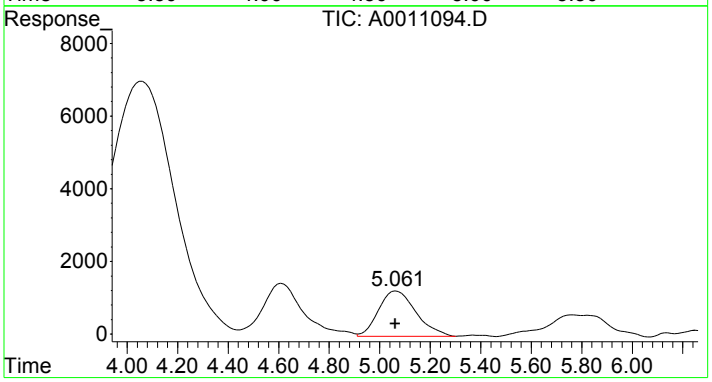
#2 Pyruvic acid

R.T.: 4.060 min
Delta R.T.: 0.008 min
Response: 1325030
Conc: 1.06 ppm



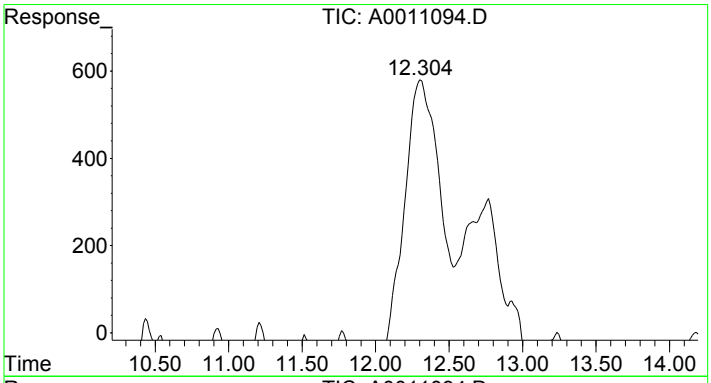
#3 Lactic Acid

R.T.: 4.614 min
Delta R.T.: 0.005 min
Response: 159976
Conc: 1.32 ppm



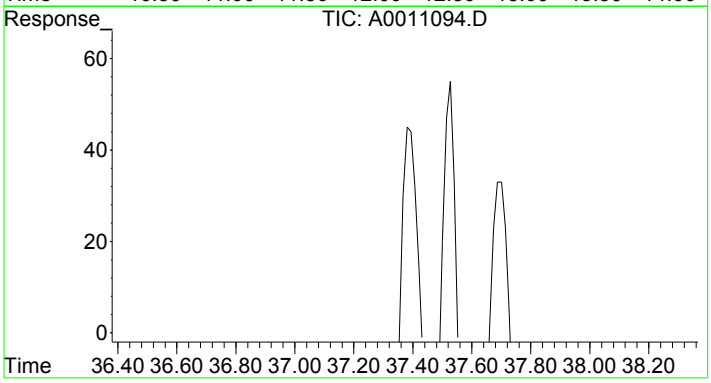
#4 Acetic Acid

R.T.: 5.061 min
Delta R.T.: -0.001 min
Response: 128208
Conc: 1.02 ppm m



#5 Propionic Acid

R.T.: 12.304 min
Delta R.T.: 0.029 min
Response: 150152
Conc: 1.28 ppm m



#6 Butyric Acid

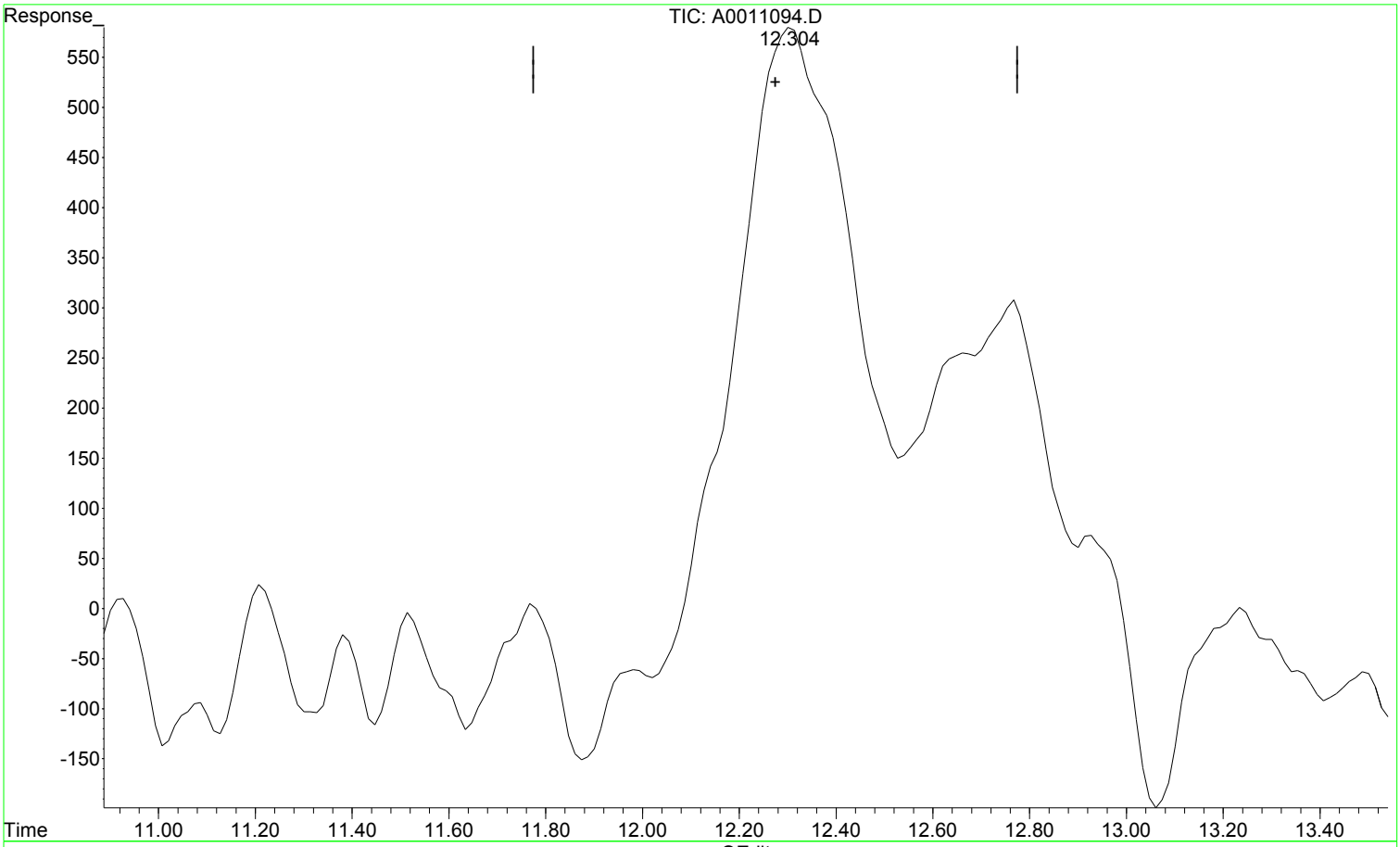
R.T.: 0.000 min
Exp R.T. : 37.376 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011094.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 15:42:09
Operator : EDeGray
Sample : 2STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:41 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

12.308min 1.413 ppm

response 166129

Manual Integration:

Before

02/07/24

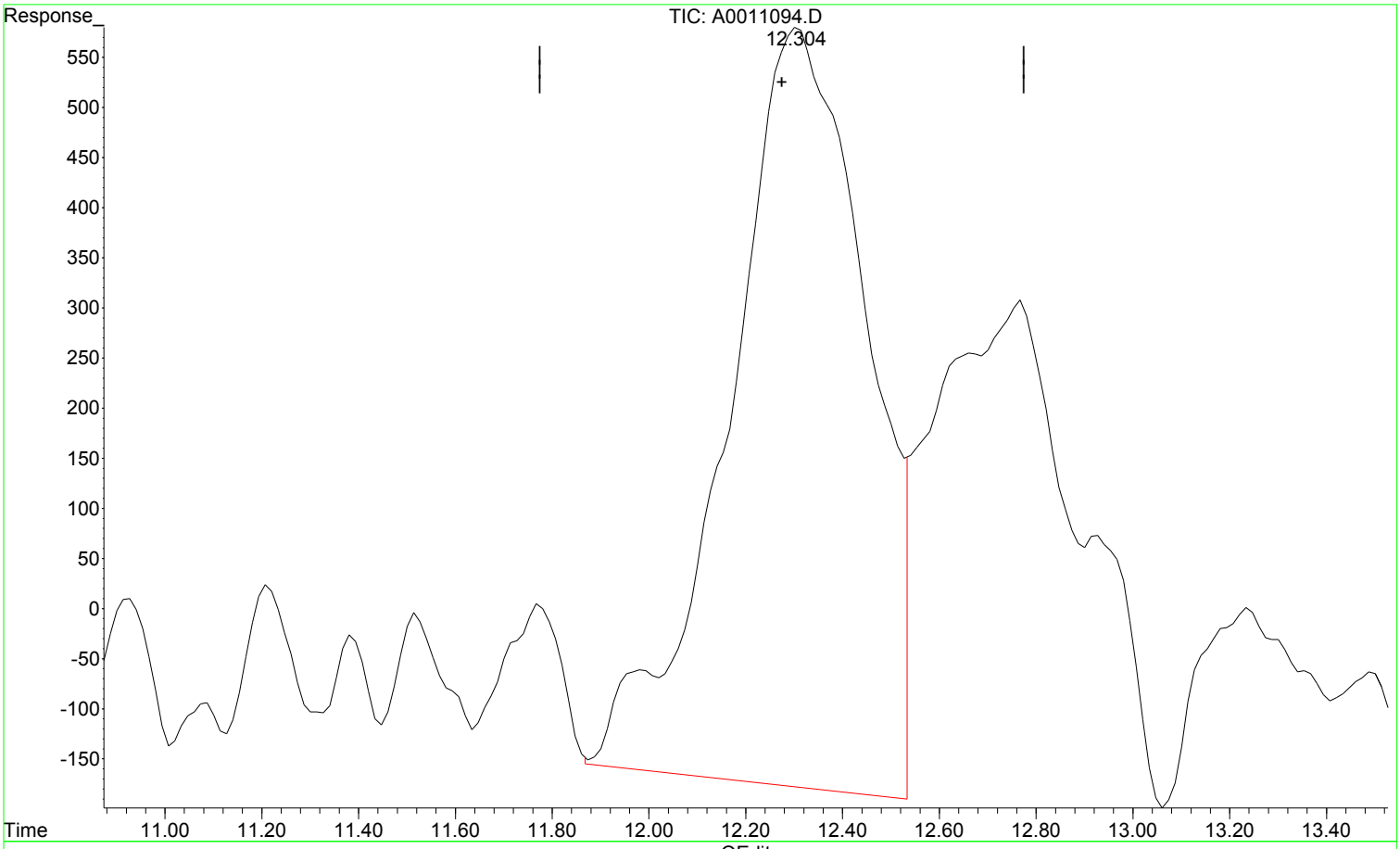
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011094.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 15:42:09
Operator : EDeGray
Sample : 2STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:41 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

12.304min 1.277 ppm m

response 150152

Manual Integration:

After

Poor integration.

02/07/24

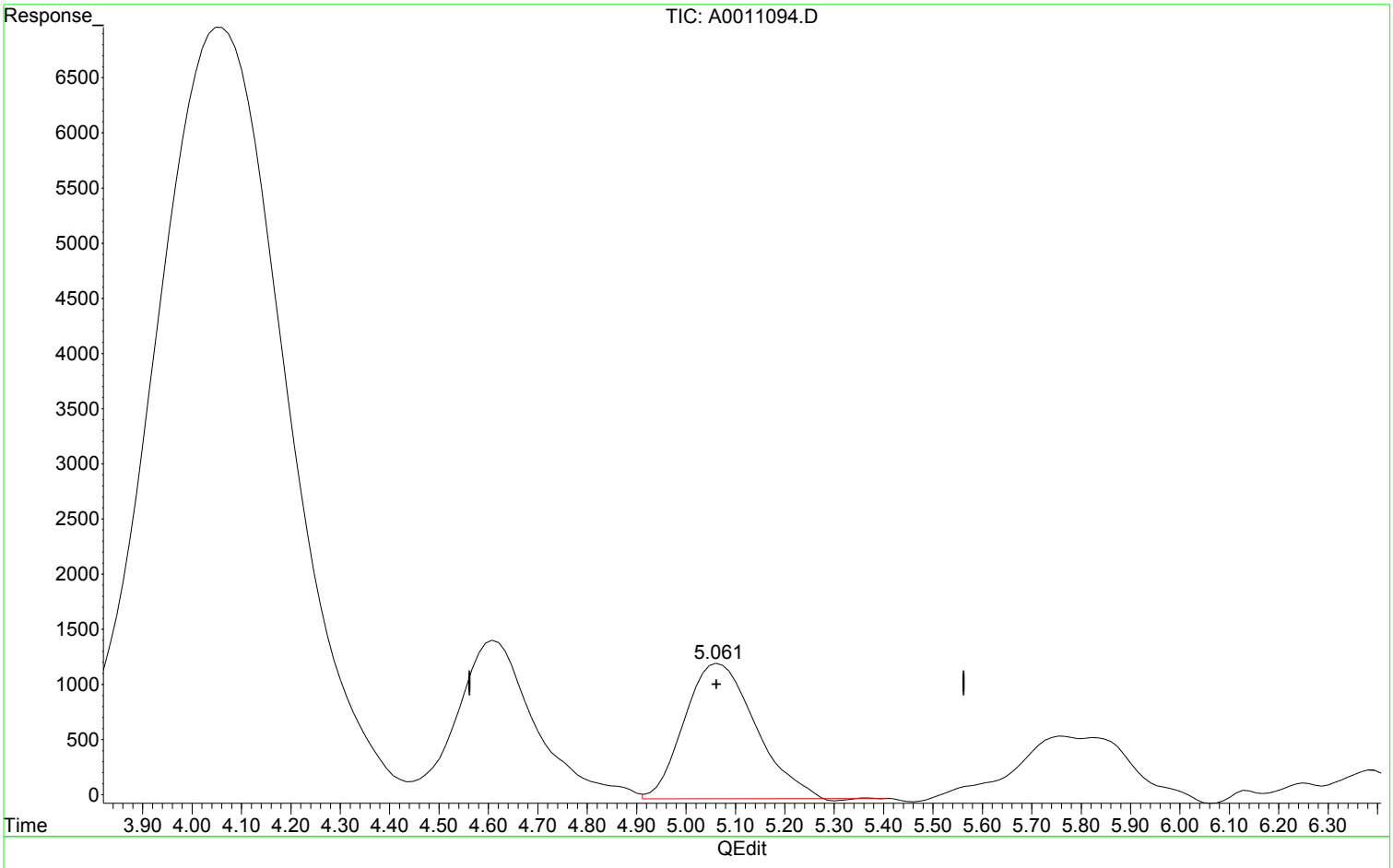
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011094.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 15:42:09
Operator : EDeGray
Sample : 2STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:41 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

5.068min 0.984 ppm

response 123052

Manual Integration:

Before

02/07/24

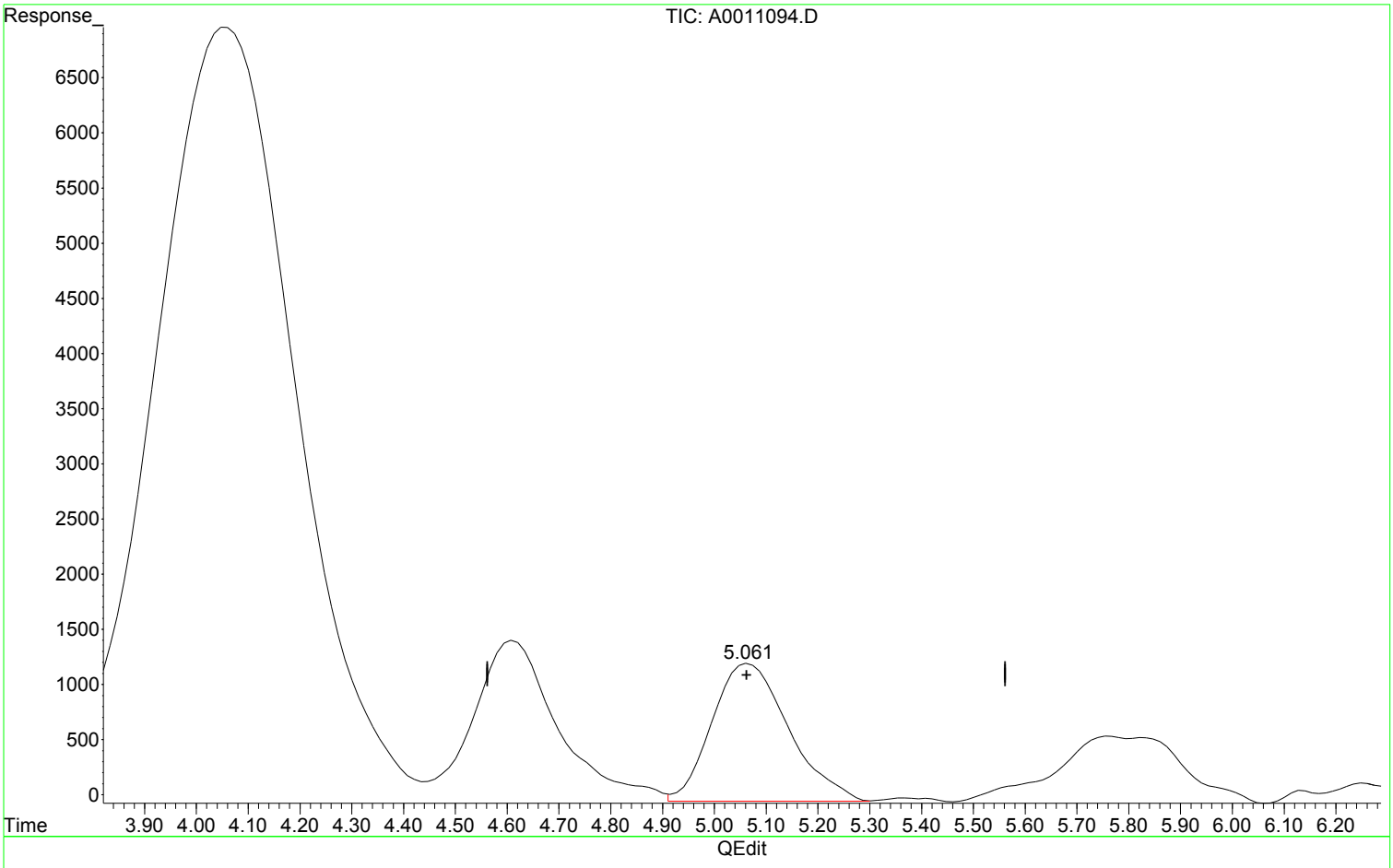
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011094.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 15:42:09
Operator : EDeGray
Sample : 2STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:41 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

5.061min 1.025 ppm m

response 128208

Manual Integration:

After

Poor integration.

02/07/24

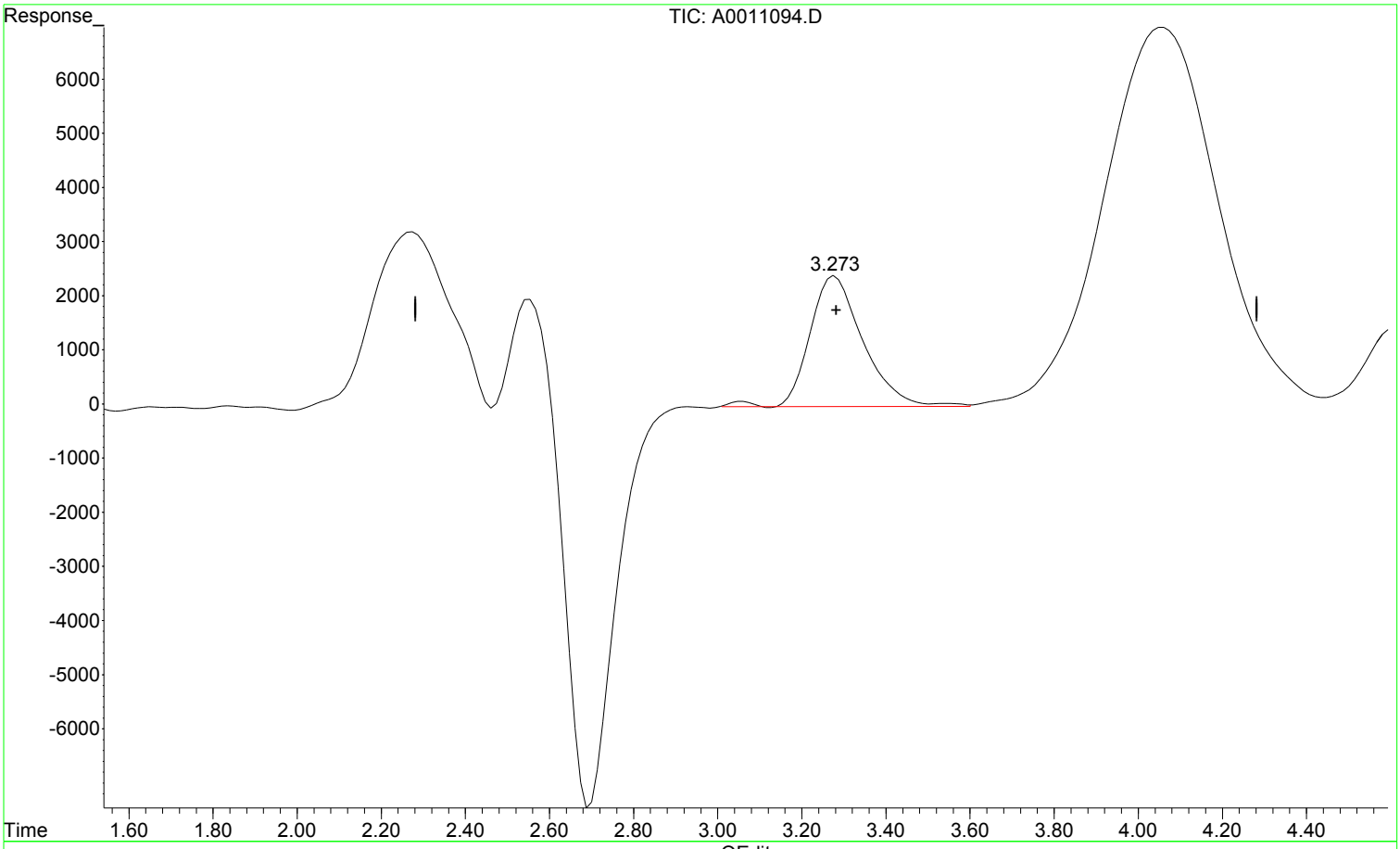
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011094.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 15:42:09
Operator : EDeGray
Sample : 2STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:41 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)

3.280min 1.132 ppm

response 213535

Manual Integration:

Before

02/07/24

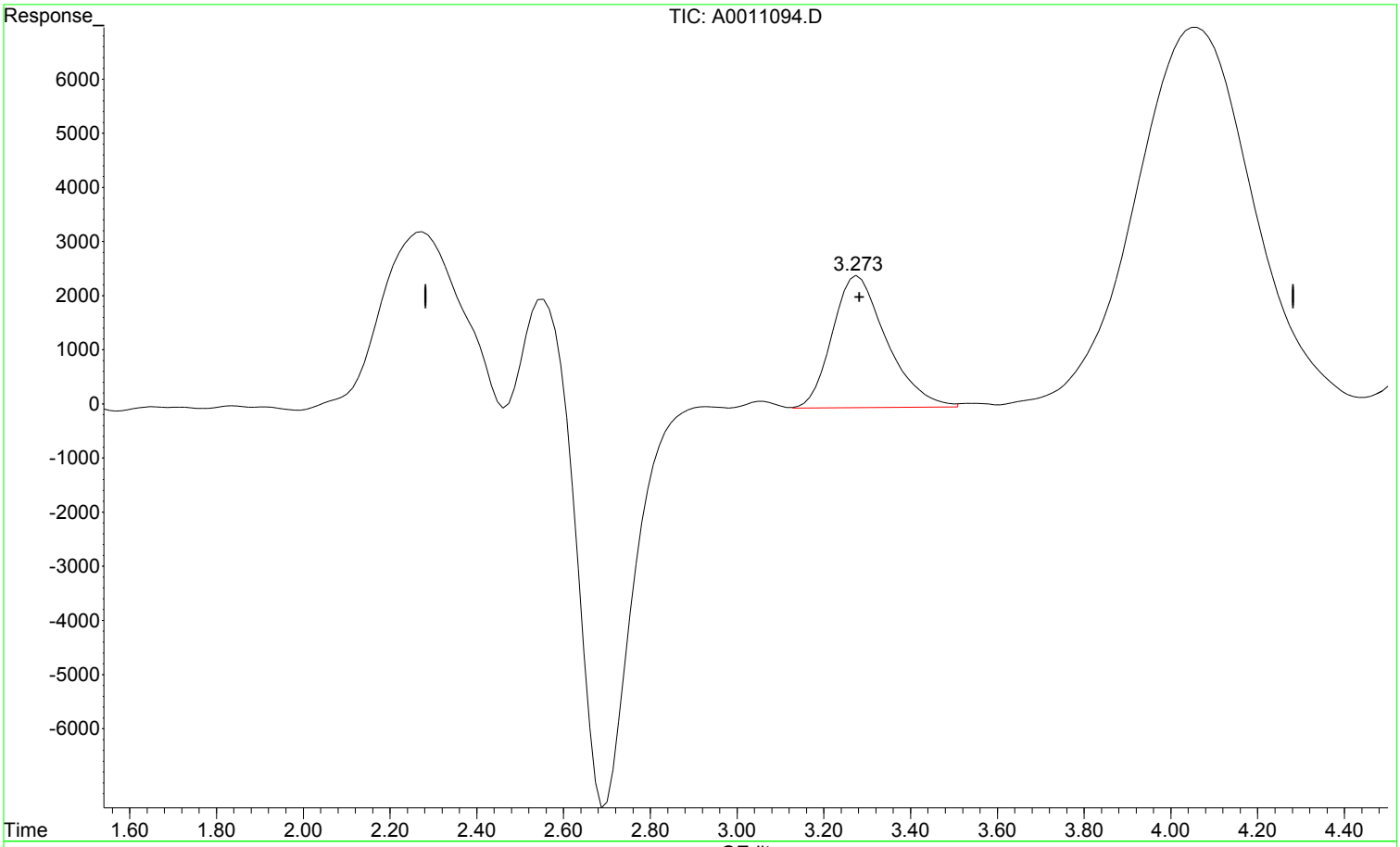
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011094.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 15:42:09
Operator : EDeGray
Sample : 2STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:41 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)

3.273min 1.123 ppm m

response 211804

Manual Integration:

After

Poor integration.

02/07/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011093.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 14:55:06
Operator : EDeGray
Sample : 1STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:39 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

Compound	R.T.	Response	Conc	Units	
Target Compounds					
1) t Formic acid	3.273	131544	0.697	ppm	m
2) T Pyruvic acid	4.059	716100	0.571	ppm	
3) T Lactic Acid	4.616	93911	0.775	ppm	
4) T Acetic Acid	5.075	77506	0.619	ppm	m
5) T Propionic Acid	12.352	64633	0.550	ppm	m
6) T Butyric Acid	0.000	0	N.D.	ppm	

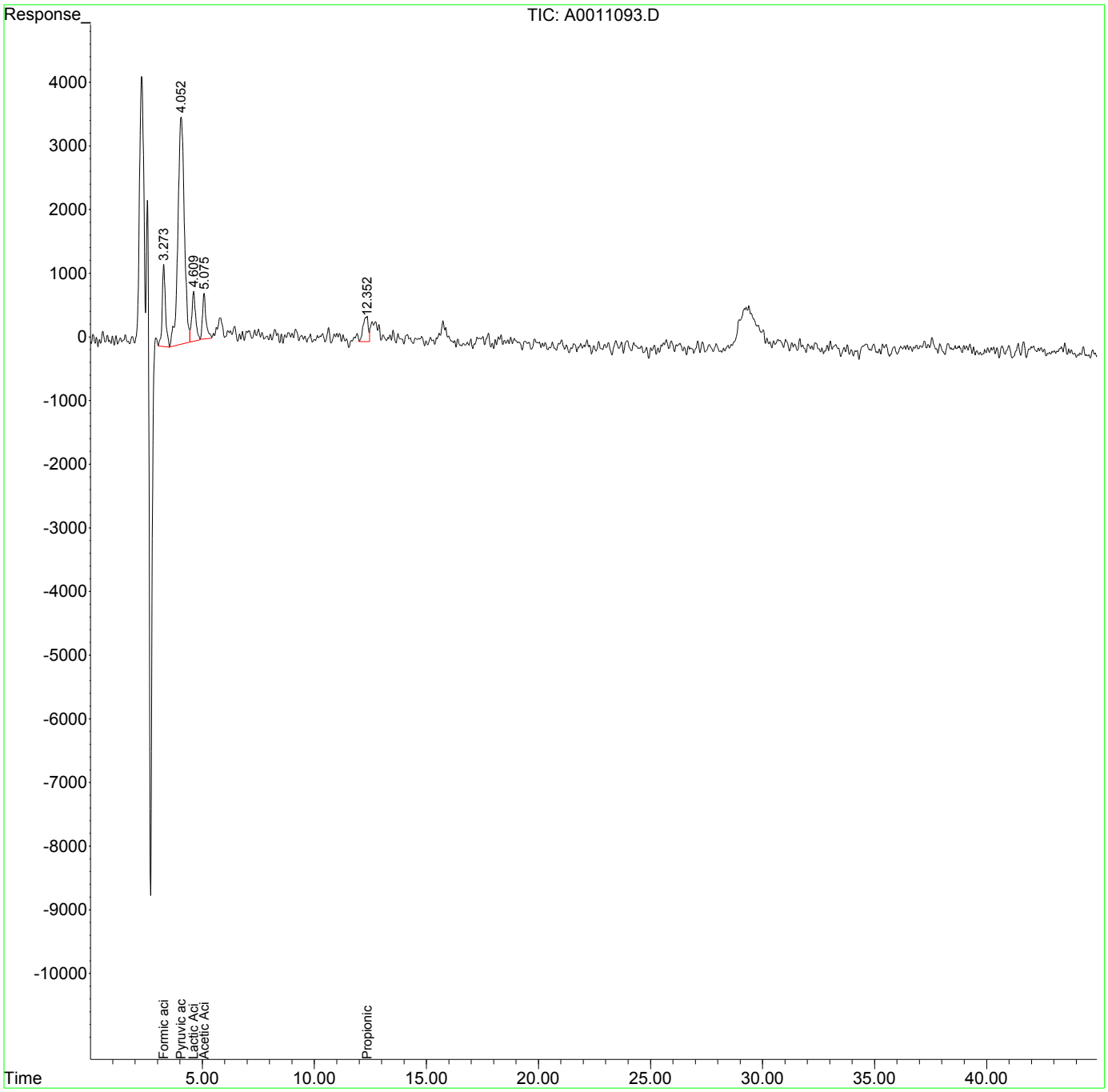
(f)=RT Delta > 1/2 Window (m)=manual int.

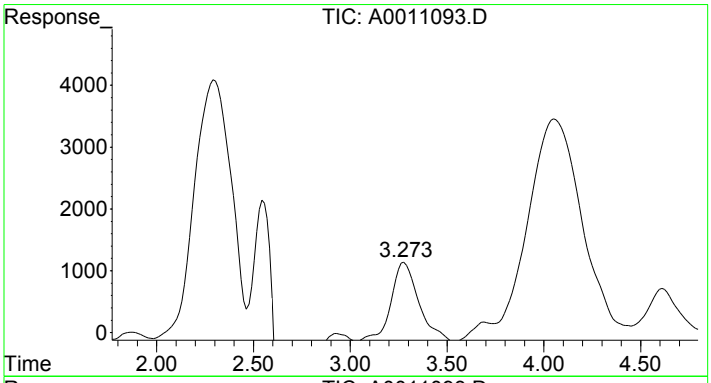
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011093.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 14:55:06
Operator : EDeGray
Sample : 1STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:39 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

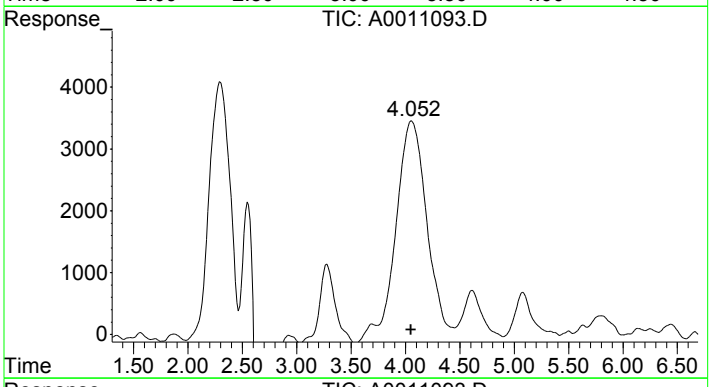
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





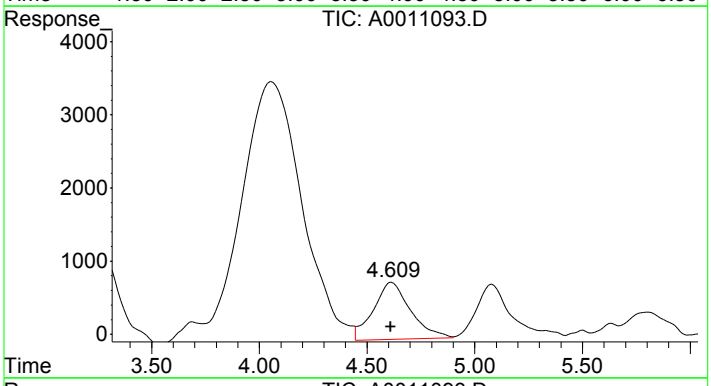
#1 Formic acid

R.T.: 3.273 min
Delta R.T.: -0.009 min
Response: 131544
Conc: 0.70 ppm m



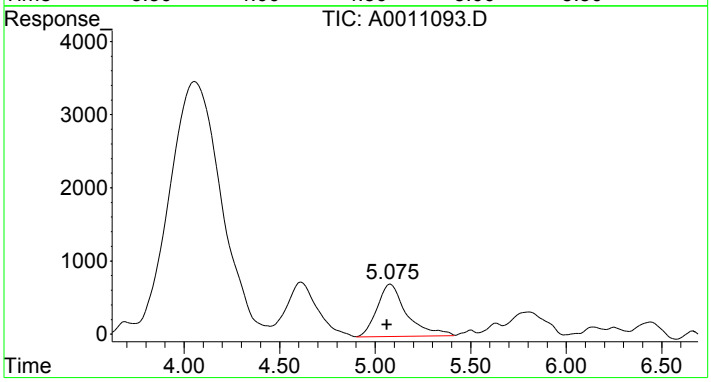
#2 Pyruvic acid

R.T.: 4.059 min
Delta R.T.: 0.007 min
Response: 716100
Conc: 0.57 ppm



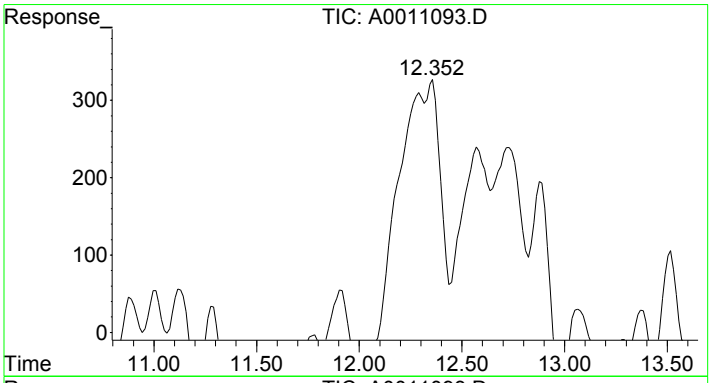
#3 Lactic Acid

R.T.: 4.616 min
Delta R.T.: 0.007 min
Response: 93911
Conc: 0.77 ppm



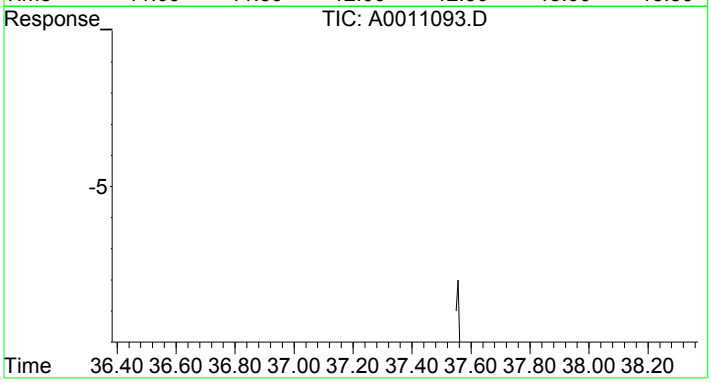
#4 Acetic Acid

R.T.: 5.075 min
Delta R.T.: 0.013 min
Response: 77506
Conc: 0.62 ppm m



#5 Propionic Acid

R.T.: 12.352 min
Delta R.T.: 0.077 min
Response: 64633
Conc: 0.55 ppm m



#6 Butyric Acid

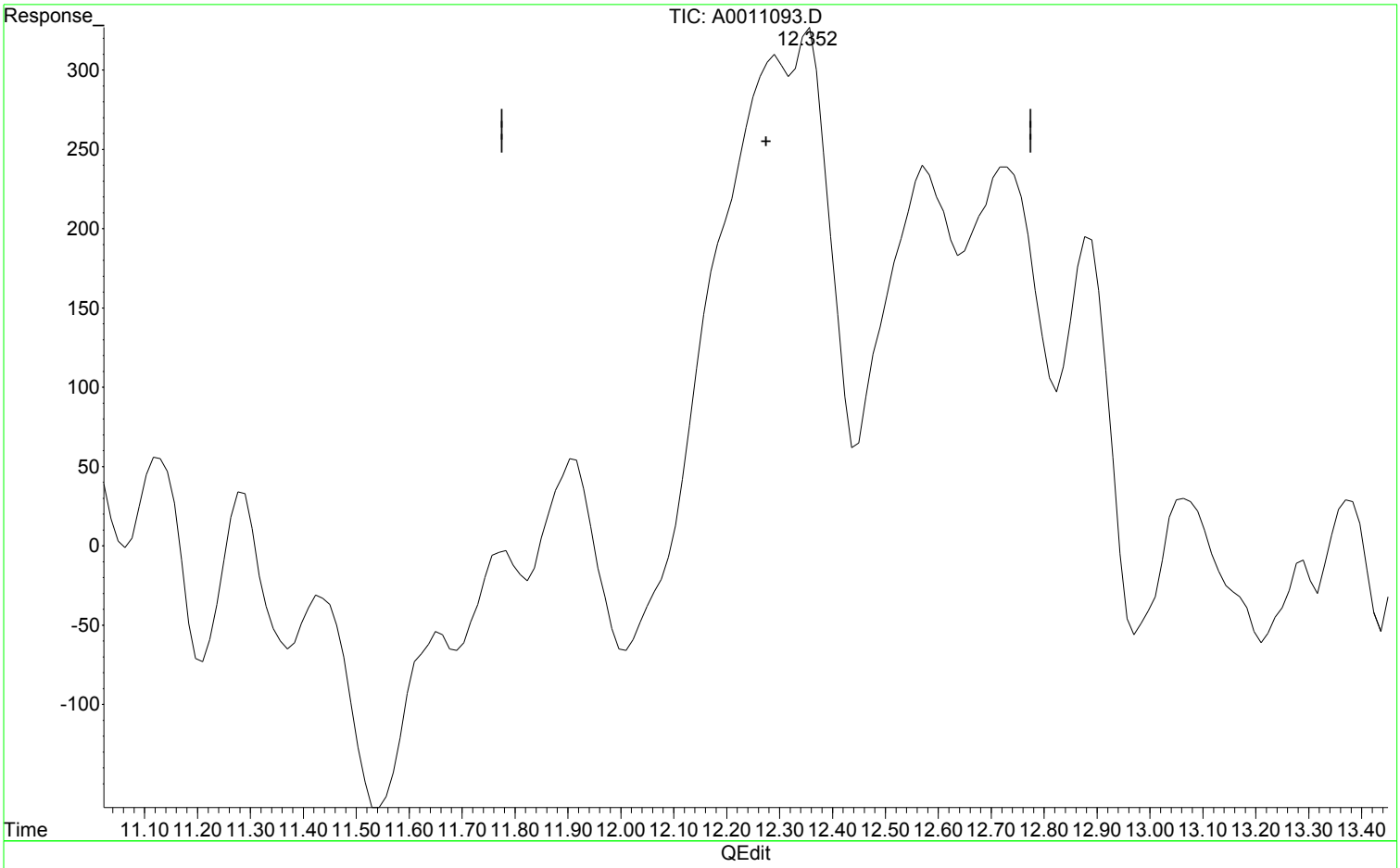
R.T.: 0.000 min
Exp R.T. : 37.376 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011093.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 14:55:06
Operator : EDeGray
Sample : 1STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:39 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

12.342min 0.735 ppm

response 86376

Manual Integration:

Before

02/07/24

(+) = Expected Retention Time

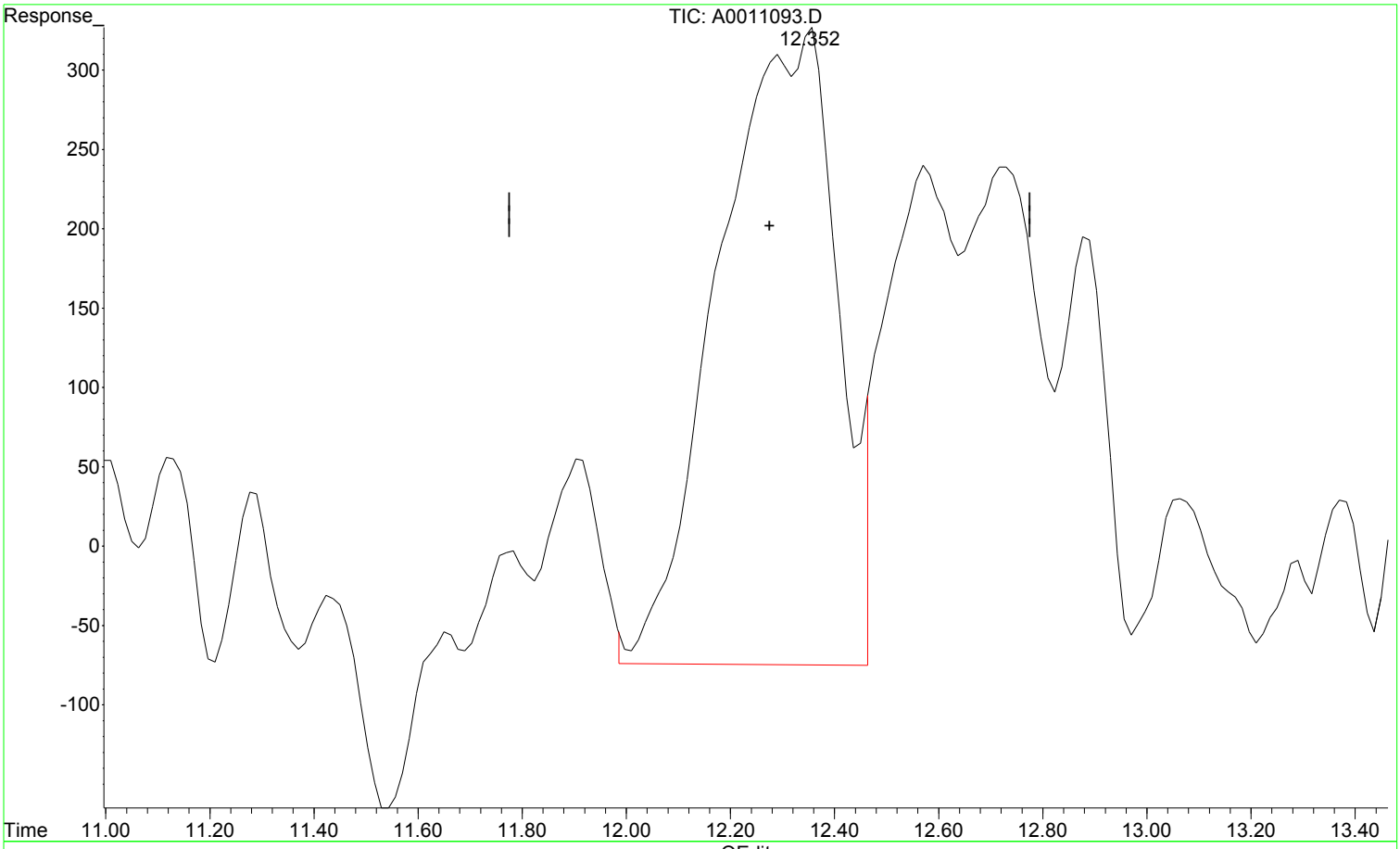
1st EDG 02/08/24
2nd AF 02/20/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011093.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 14:55:06
Operator : EDeGray
Sample : 1STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:39 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

12.352min 0.550 ppm m

response 64633

Manual Integration:

After

Poor integration.

02/07/24

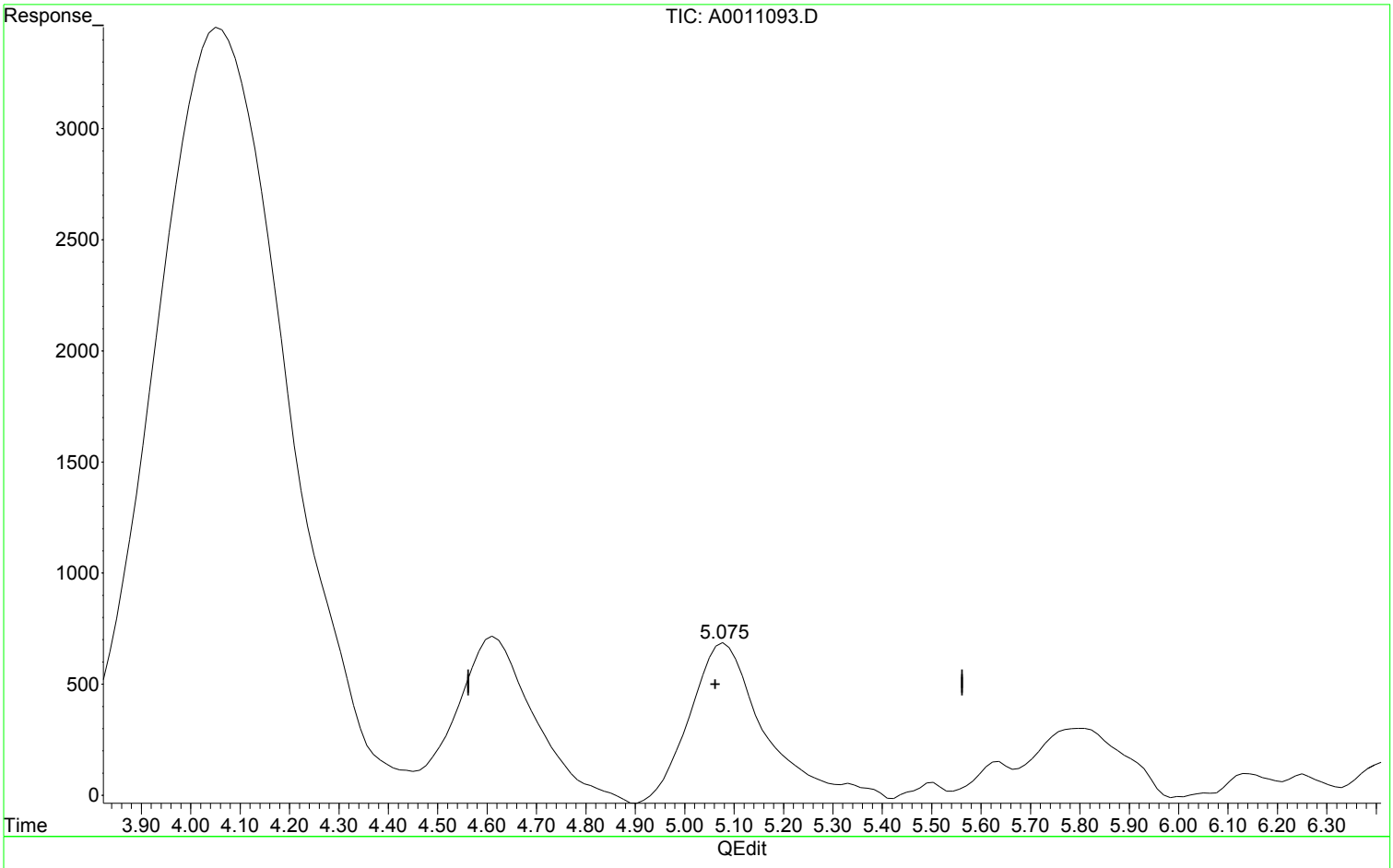
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011093.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 14:55:06
Operator : EDeGray
Sample : 1STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:39 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

5.081min 0.608 ppm

response 76068

Manual Integration:

Before

02/07/24

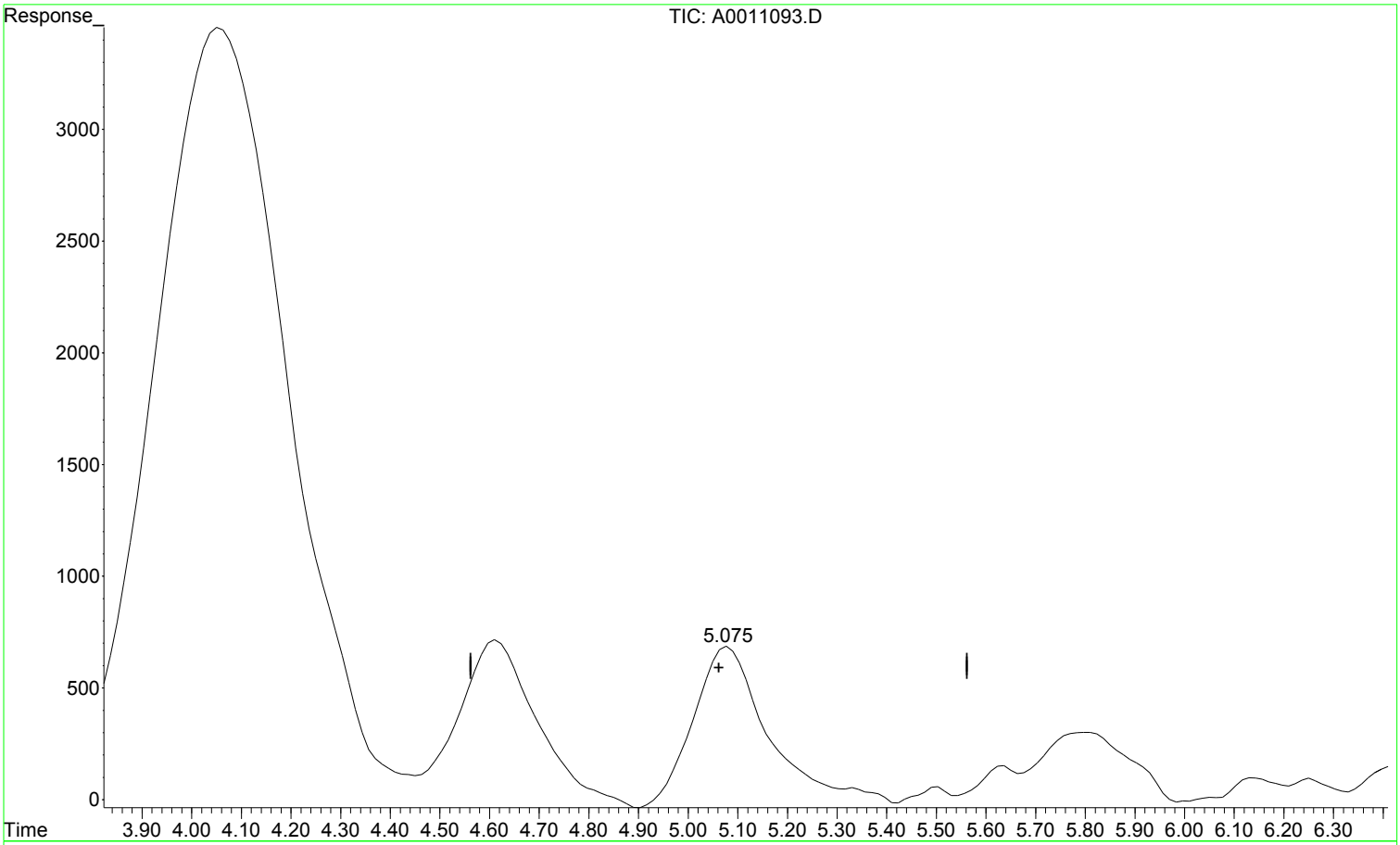
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011093.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 14:55:06
Operator : EDeGray
Sample : 1STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:39 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

5.075min 0.619 ppm m

response 77506

Manual Integration:

After

Poor integration.

02/07/24

(+) = Expected Retention Time

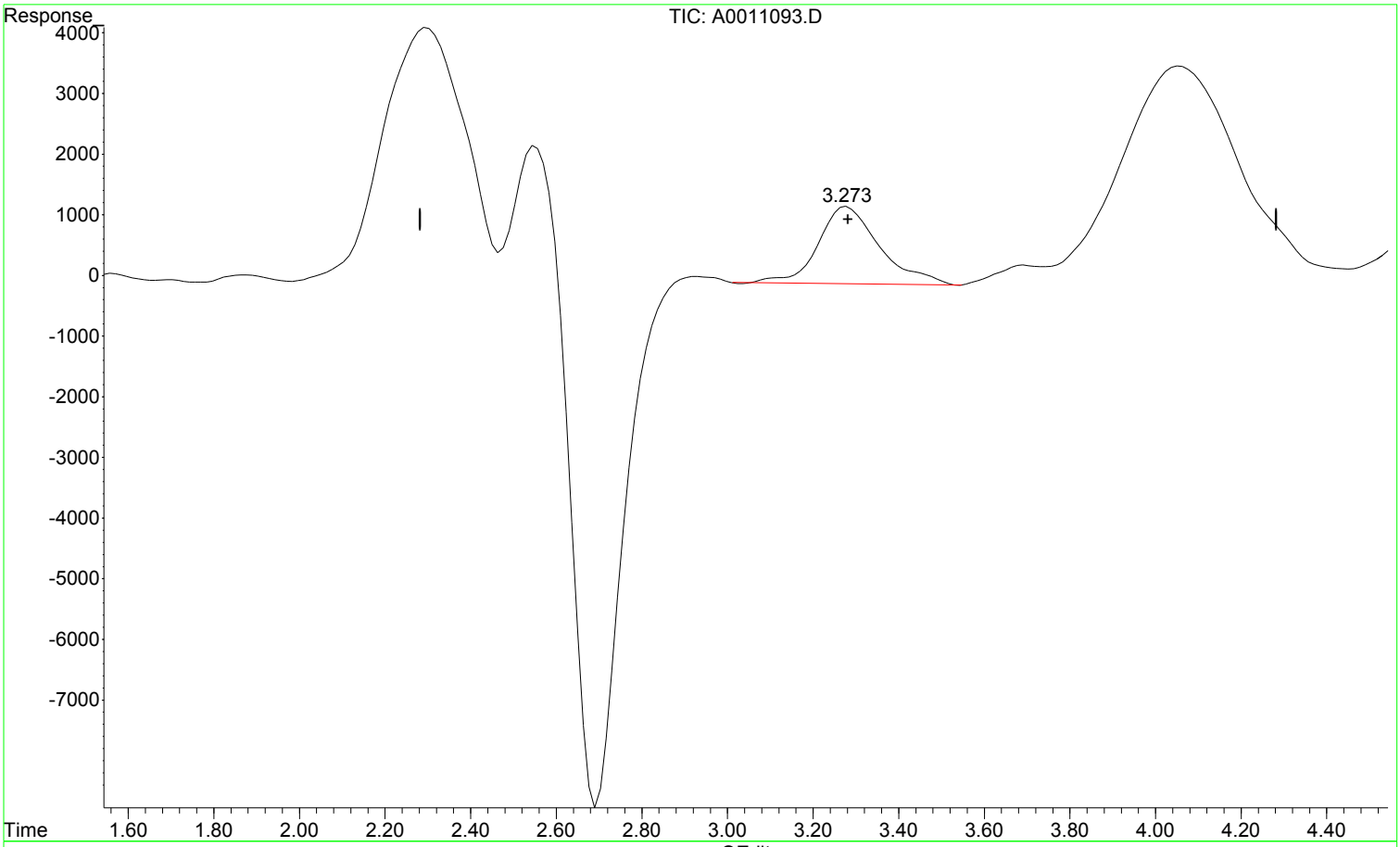
1st EDG 02/08/24
2nd AF 02/20/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011093.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 14:55:06
Operator : EDeGray
Sample : 1STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:39 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)

3.281min 0.669 ppm

response 126112

Manual Integration:

Before

02/07/24

(+) = Expected Retention Time

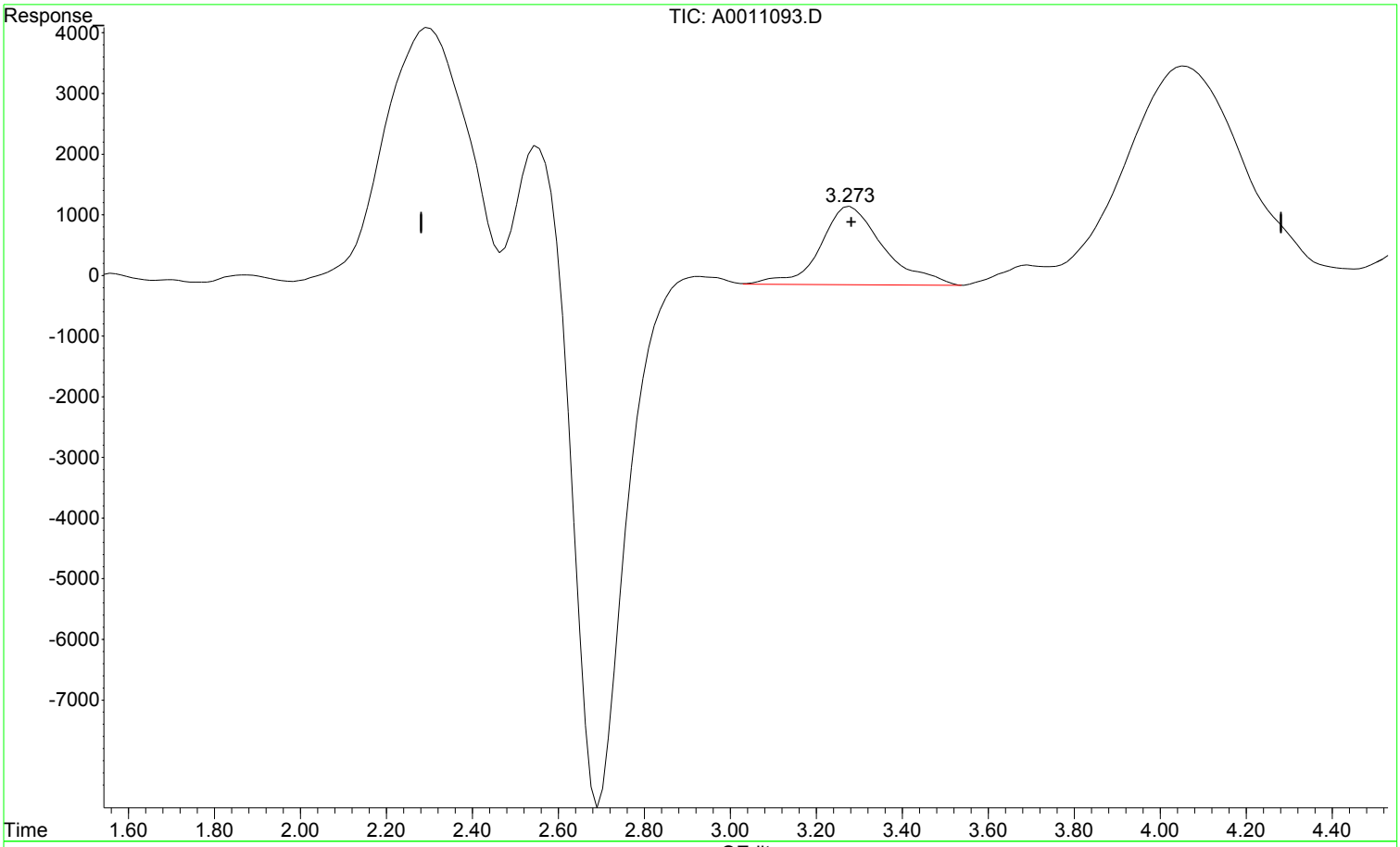
1st EDG 02/08/24
2nd AF 02/20/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011093.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 14:55:06
Operator : EDeGray
Sample : 1STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:39 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)

3.273min 0.697 ppm m

response 131544

Manual Integration:

After

Poor integration.

02/07/24

(+) = Expected Retention Time

1st EDG 02/08/24
2nd AF 02/20/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011092.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 14:07:52
Operator : EDeGray
Sample : ~~0.2STD~~ Wrong standard ID
Misc : 0.1STD
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:37 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	4.081	67930	0.054	ppm	m
3) T	Lactic Acid	0.000	0	N.D.	ppm	d
4) T	Acetic Acid	0.000	0	N.D.	ppm	
5) T	Propionic Acid	0.000	0	N.D.	ppm	d
6) T	Butyric Acid	0.000	0	N.D.	ppm	d

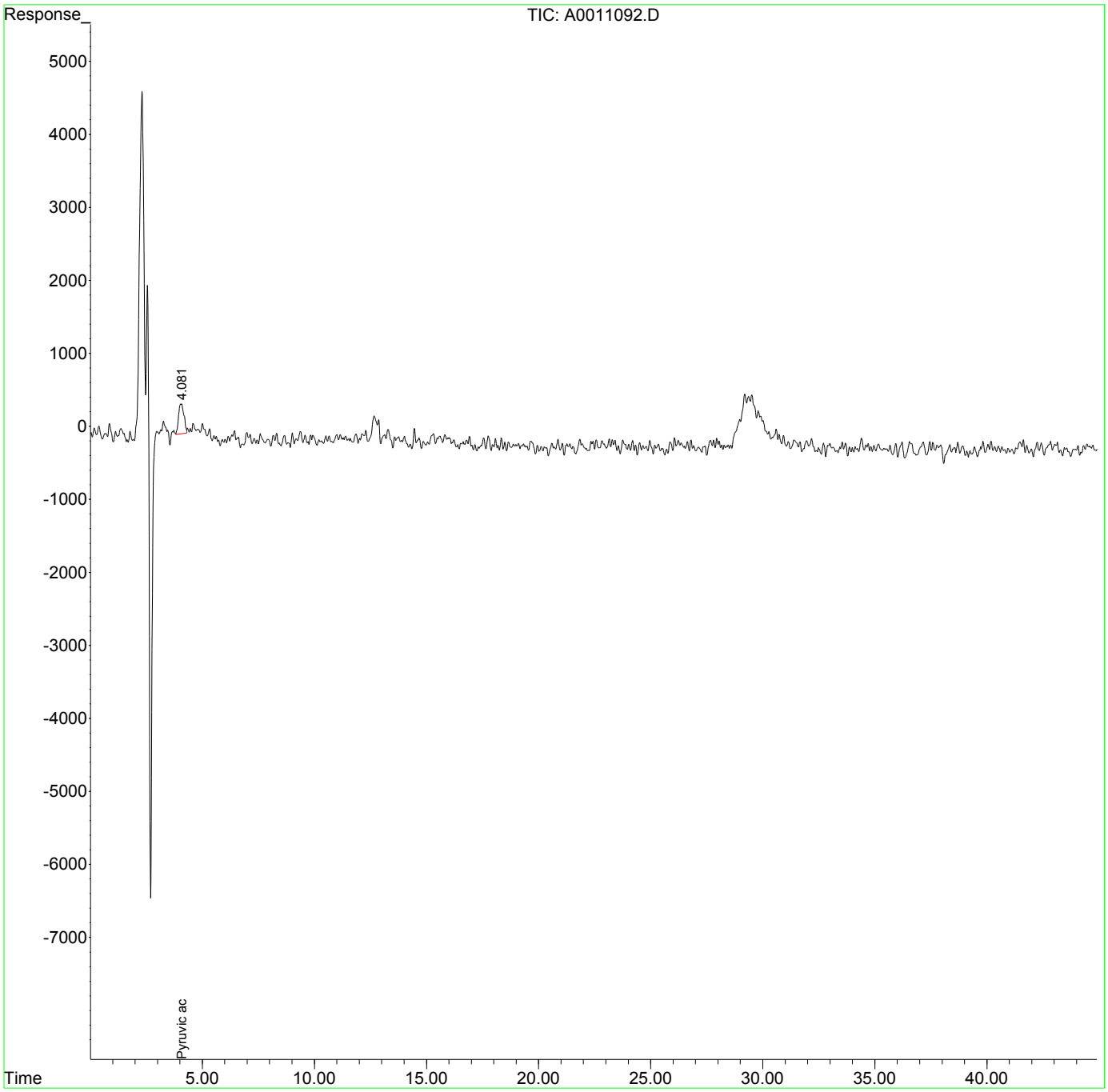
(f)=RT Delta > 1/2 Window (m)=manual int.

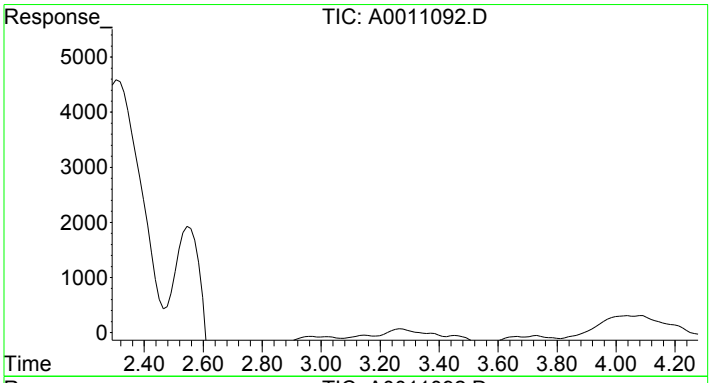
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011092.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 14:07:52
Operator : EDeGray
Sample : 0.2STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:37 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

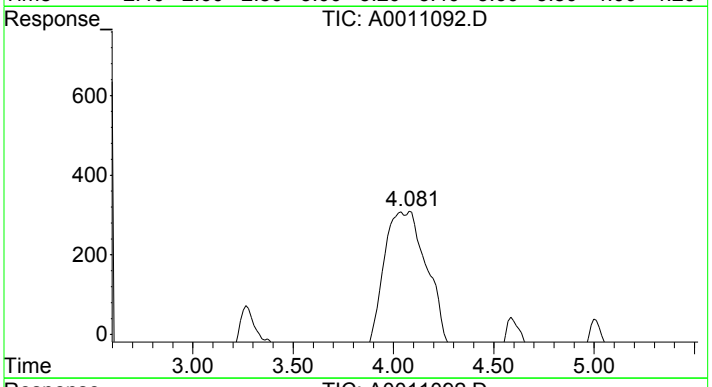
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





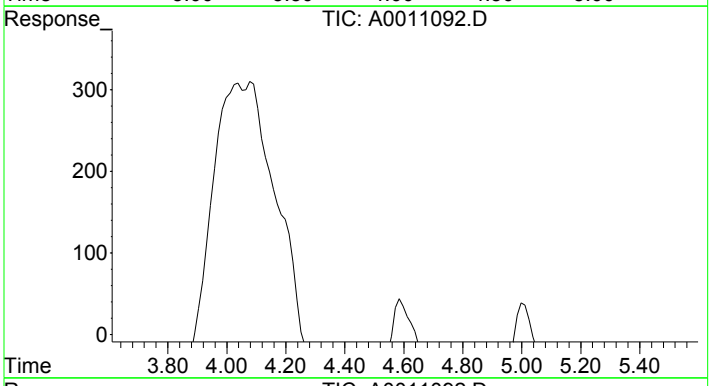
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.282 min
Response: 0
Conc: N.D.



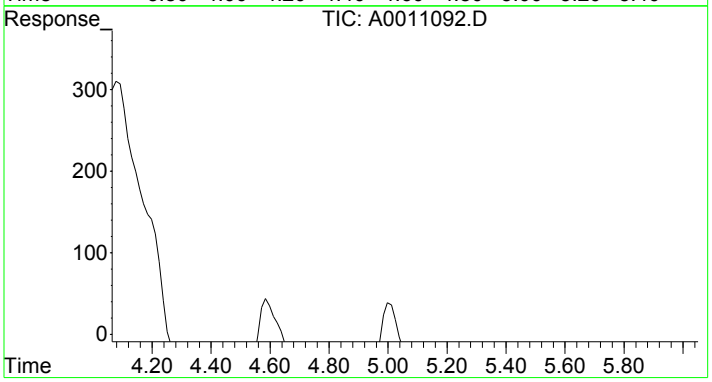
#2 Pyruvic acid

R.T.: 4.081 min
Delta R.T.: 0.029 min
Response: 67930
Conc: 0.05 ppm m



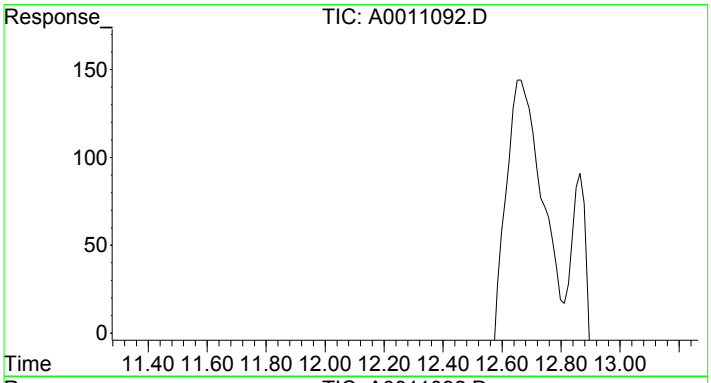
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 4.609 min
Response: 0
Conc: N.D.



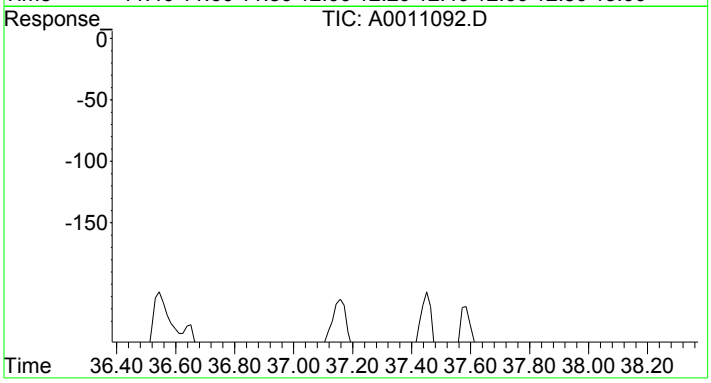
#4 Acetic Acid

R.T.: 0.000 min
Exp R.T. : 5.062 min
Response: 0
Conc: N.D.



#5 Propionic Acid

R.T.: 0.000 min
Exp R.T. : 12.275 min
Response: 0
Conc: N.D.



#6 Butyric Acid

R.T.: 0.000 min
Exp R.T. : 37.376 min
Response: 0
Conc: N.D.

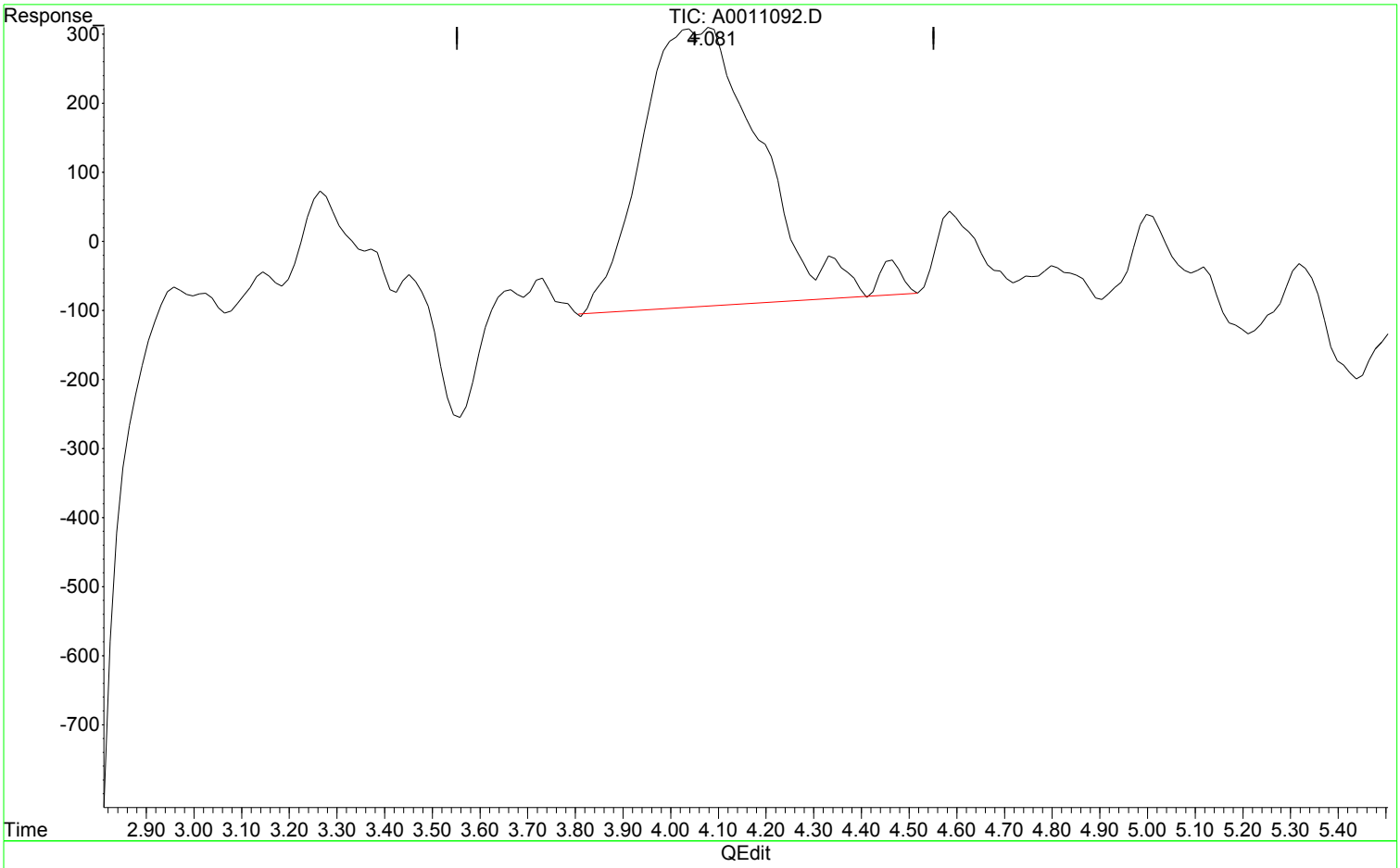
1st EDG 02/08/24
2nd AF 02/20/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011092.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 14:07:52
Operator : EDeGray
Sample : 0.2STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:37 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(2) Pyruvic acid (T)

4.056min 0.056 ppm

response 70516

Manual Integration:

Before

02/07/24

(+) = Expected Retention Time

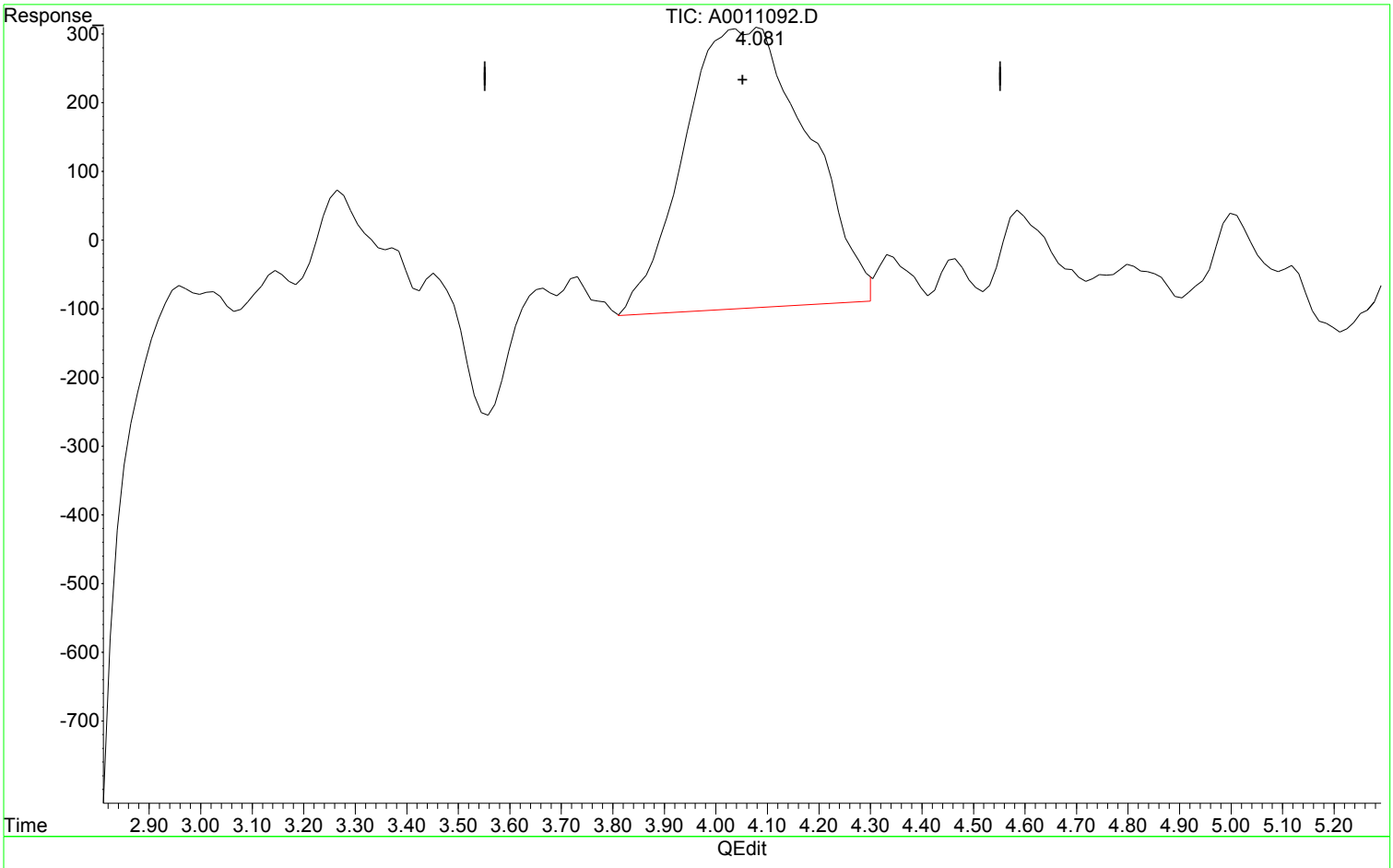
1st EDG 02/08/24
2nd AF 02/20/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011092.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 14:07:52
Operator : EDeGray
Sample : ~~0.2STD~~
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:37 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(2) Pyruvic acid (T)

4.081min 0.054 ppm m

response 67930

Manual Integration:

After

Poor integration.

02/07/24

(+) = Expected Retention Time

1st EDG 02/08/24
2nd AF 02/20/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011091.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 13:20:42
Operator : EDeGray Wrong sample ID
Sample : ~~0.1STD~~ 0.2STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:34 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	d
2) T	Pyruvic acid	4.071	123395	0.098	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	0.000	0	N.D.	ppm	
5) T	Propionic Acid	0.000	0	N.D.	ppm	d
6) T	Butyric Acid	0.000	0	N.D.	ppm	

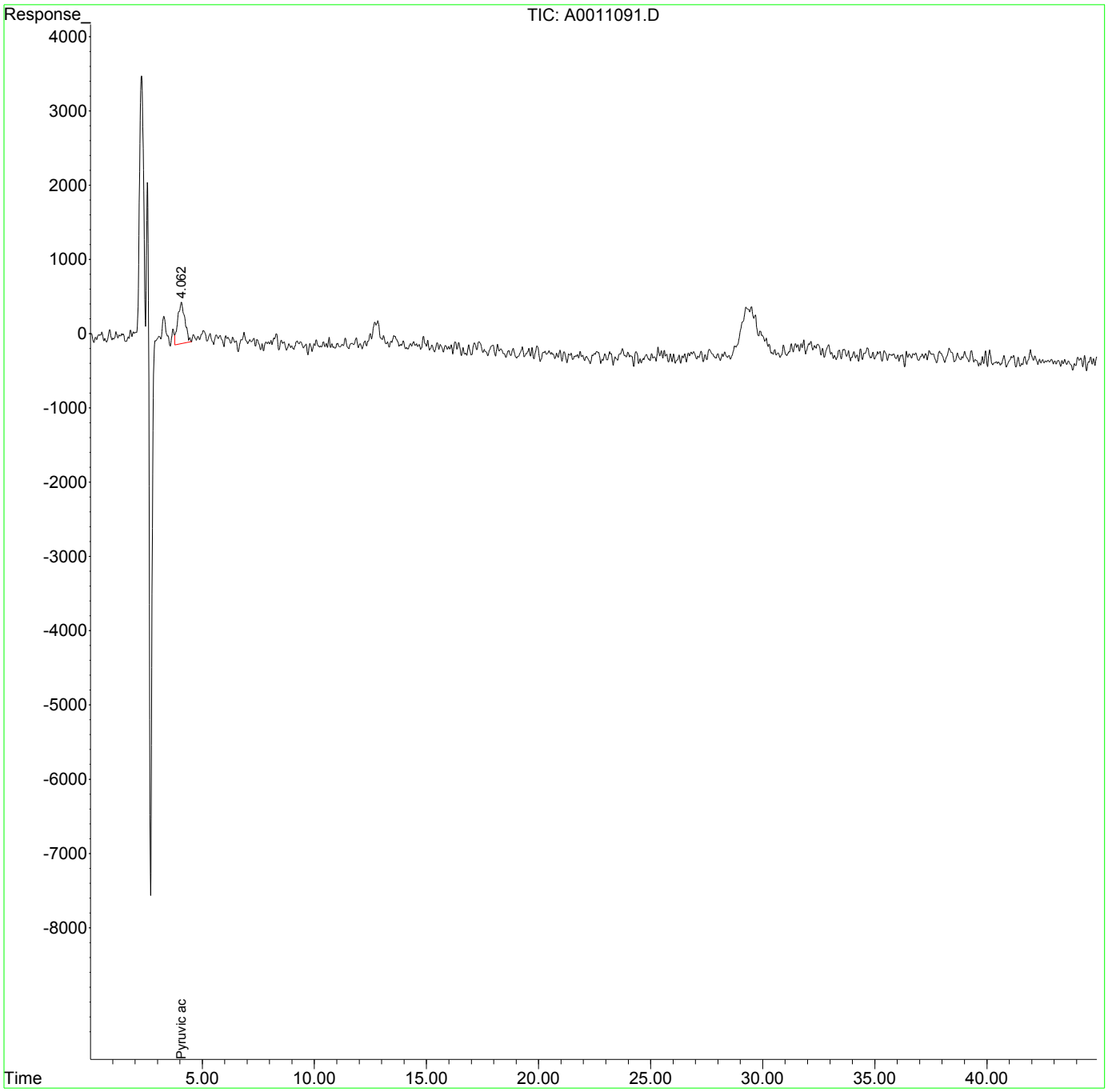
(f)=RT Delta > 1/2 Window (m)=manual int.

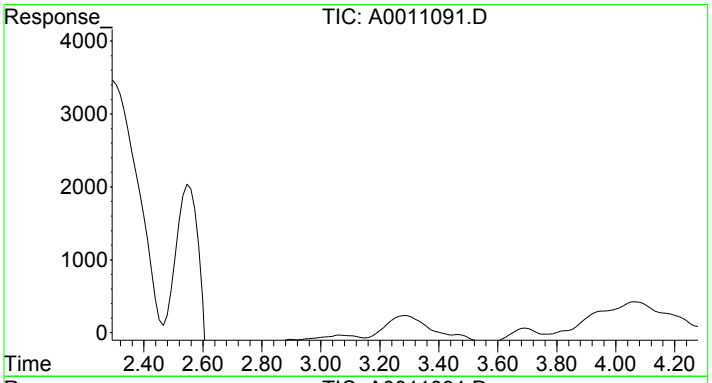
1st EDG 02/08/24
2nd AF 02/20/24

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011091.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 13:20:42
Operator : EDeGray
Sample : 0.1STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:28:34 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:27:42 2024
Response via : Initial Calibration
Integrator: ChemStation

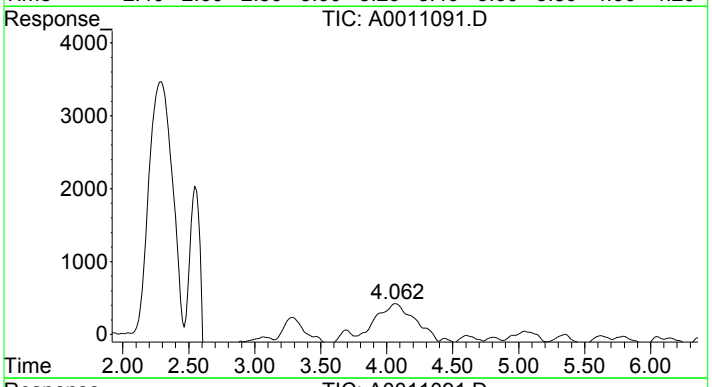
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





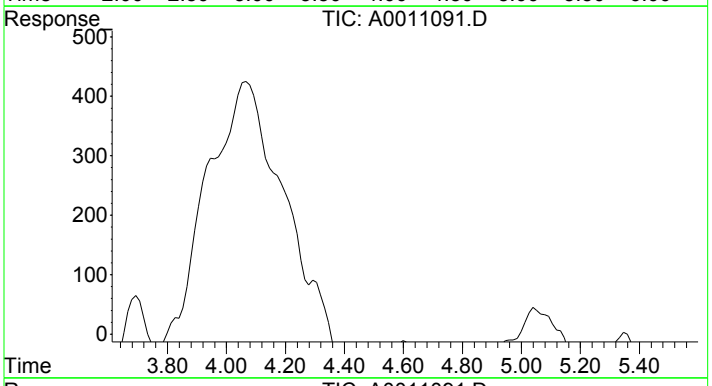
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.282 min
Response: 0
Conc: N.D.



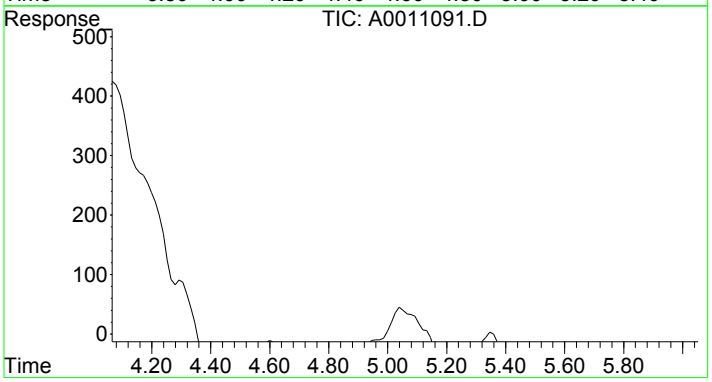
#2 Pyruvic acid

R.T.: 4.071 min
Delta R.T.: 0.019 min
Response: 123395
Conc: 0.10 ppm



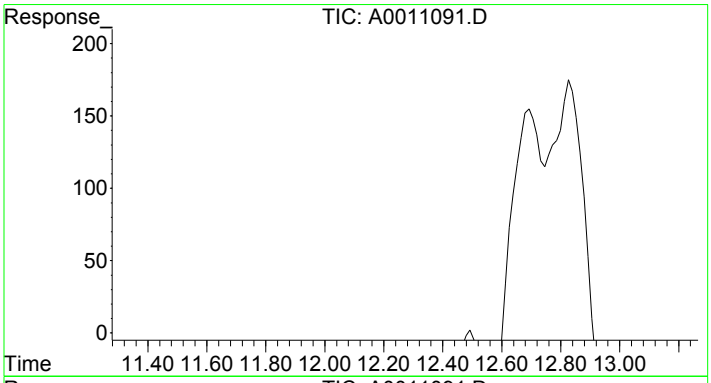
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 4.609 min
Response: 0
Conc: N.D.



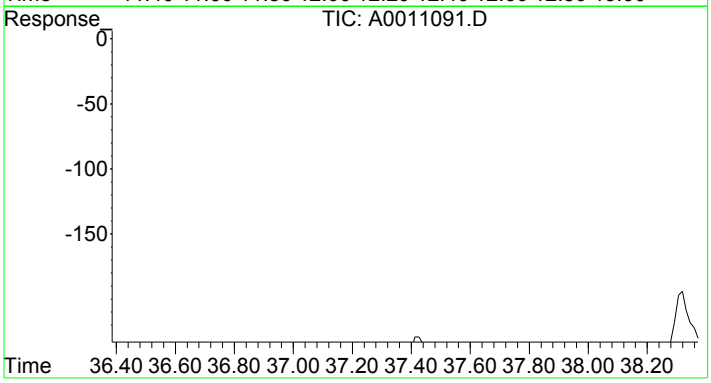
#4 Acetic Acid

R.T.: 0.000 min
Exp R.T. : 5.062 min
Response: 0
Conc: N.D.



#5 Propionic Acid

R.T.: 0.000 min
Exp R.T. : 12.275 min
Response: 0
Conc: N.D.



#6 Butyric Acid

R.T.: 0.000 min
Exp R.T. : 37.376 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011090.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 12:33:33
Operator : EDeGray
Sample : INST BLANK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:52:15 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:51:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	d
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	0.000	0	N.D.	ppm	
5) T	Propionic Acid	0.000	0	N.D.	ppm	d
6) T	Butyric Acid	0.000	0	N.D.	ppm	d

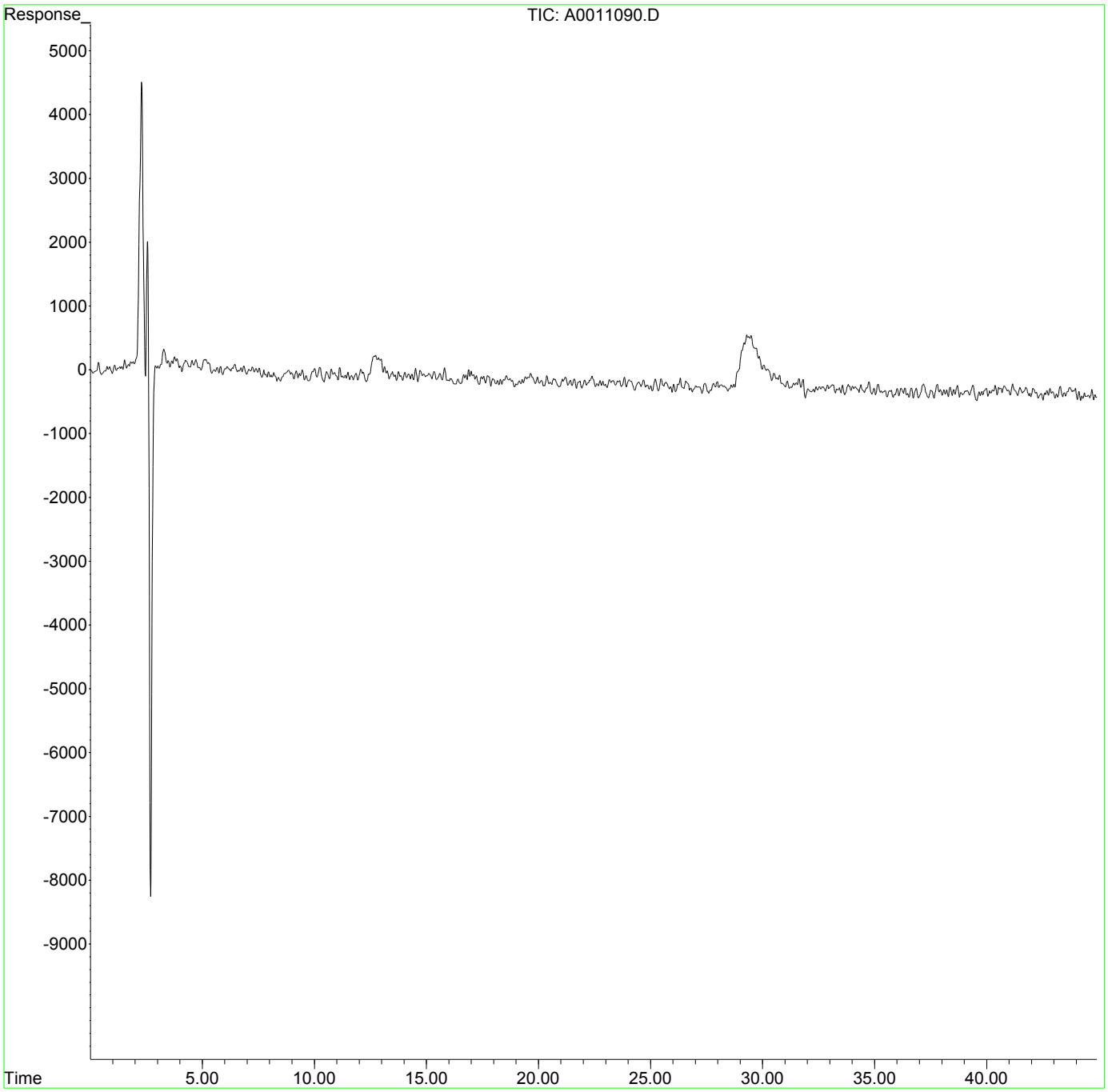
(f)=RT Delta > 1/2 Window (m)=manual int.

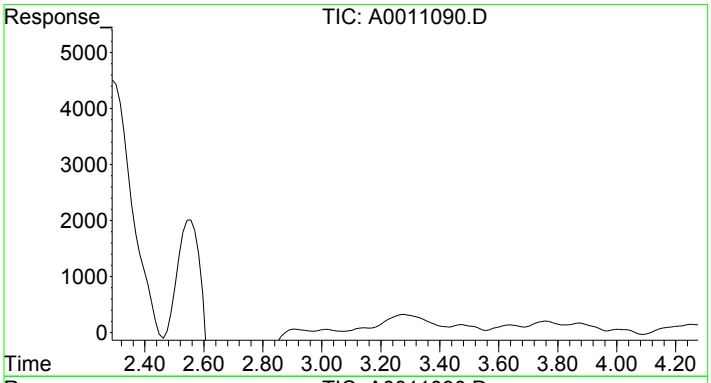
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC05\data\020624\
Data File : A0011090.D
Signal(s) : dad1A.ch
Acq On : 06-Feb-2024, 12:33:33
Operator : EDeGray
Sample : INST BLANK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Feb 07 14:52:15 2024
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA0020624.M
Quant Title : organic acids
QLast Update : Wed Feb 07 14:51:06 2024
Response via : Initial Calibration
Integrator: ChemStation

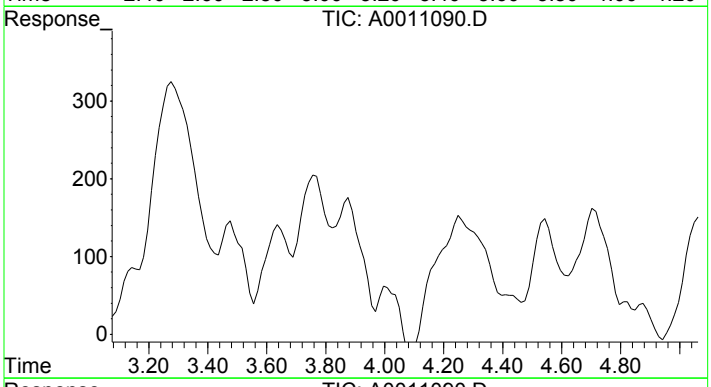
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





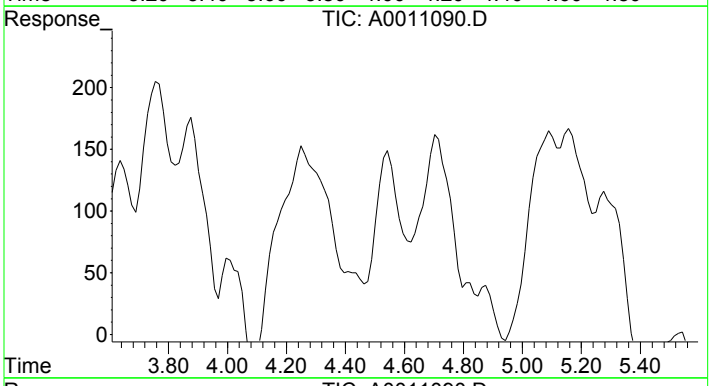
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.279 min
Response: 0
Conc: N.D.



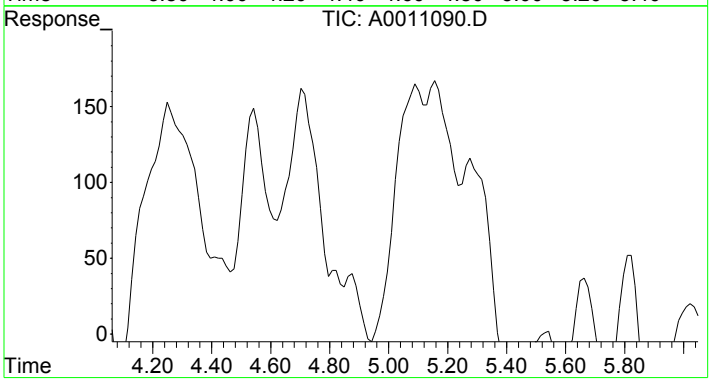
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 4.064 min
Response: 0
Conc: N.D.



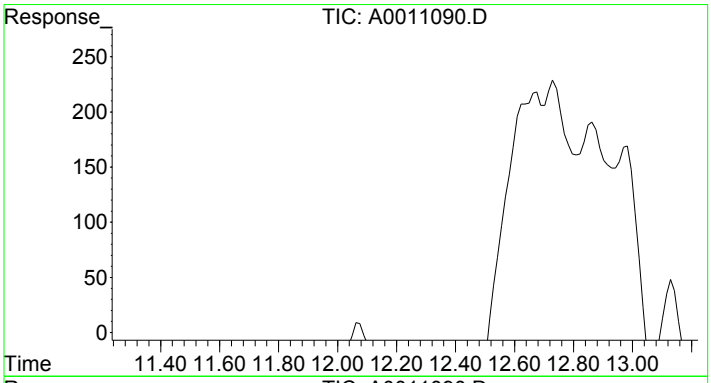
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 4.608 min
Response: 0
Conc: N.D.



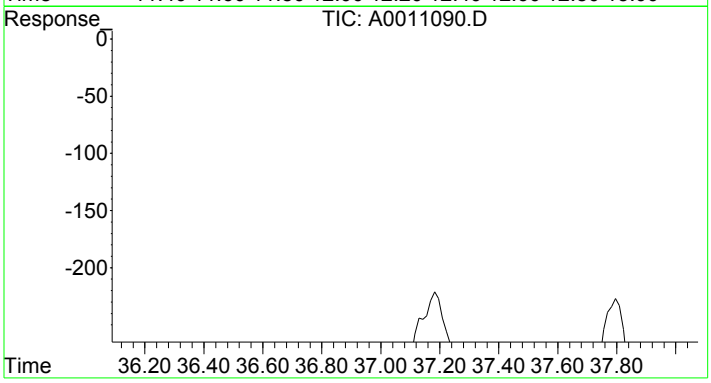
#4 Acetic Acid

R.T.: 0.000 min
Exp R.T. : 5.059 min
Response: 0
Conc: N.D.



#5 Propionic Acid

R.T.: 0.000 min
Exp R.T. : 12.230 min
Response: 0
Conc: N.D.



#6 Butyric Acid

R.T.: 0.000 min
Exp R.T. : 37.083 min
Response: 0
Conc: N.D.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2401280
Project: Olean OU3 - 6 Month Sampling 2024 **Calibration Date:** 12/30/2000

Initial Calibration Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Calibration ID: RC2400034 **Signal ID:** synergi hydro rp
Instrument ID: R-HPLC-05

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC2400034-01	0.1STD	I:\ACQUDATA\HPLC05\data\020624\A0011091.D	02/06/2024 13:20
02	RC2400034-02	0.2STD	I:\ACQUDATA\HPLC05\data\020624\A0011092.D	02/06/2024 14:07
03	RC2400034-03	1STD	I:\ACQUDATA\HPLC05\data\020624\A0011093.D	02/06/2024 14:55
04	RC2400034-04	2STD	I:\ACQUDATA\HPLC05\data\020624\A0011094.D	02/06/2024 15:42
05	RC2400034-05	5STD	I:\ACQUDATA\HPLC05\data\020624\A0011095.D	02/06/2024 16:29
07	RC2400034-07	20STD	I:\ACQUDATA\HPLC05\data\020624\A0011097.D	02/06/2024 18:03
08	RC2400034-08	50STD	I:\ACQUDATA\HPLC05\data\020624\A0011098.D	02/06/2024 18:51
09	RC2400034-09	100STD	I:\ACQUDATA\HPLC05\data\020624\A0011099.D	02/06/2024 19:38
06	RC2400034-06	10STD	I:\ACQUDATA\HPLC05\data\020624\A0011096.D	12/30/2000 12:06
10	RC2400034-10	200STD	I:\ACQUDATA\HPLC05\data\020624\A0011100.D	12/30/2000 12:09

Analyte

Acetic Acid

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	1.000	7.751E4	04	2.000	6.41E4	05	5.000	6.184E4	06	10.000	5.808E4
07	20.000	6.256E4	08	50.000	6.082E4	09	100.000	6.131E4	10	200.000	5.981E4

Butanoic Acid (Butyric Acid)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	5.000	5.575E4	06	10.000	5.886E4	07	20.000	5.688E4	08	50.000	5.771E4
09	100.000	5.82E4	10	200.000	5.579E4						

Propionic Acid

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	1.000	6.463E4	04	2.000	7.508E4	05	5.000	6.138E4	06	10.000	5.885E4
07	20.000	5.877E4	08	50.000	6.064E4	09	100.000	5.898E4	10	200.000	5.719E4

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2401280
Project: Olean OU3 - 6 Month Sampling 2024 **Calibration Date:** 12/30/2000

Initial Calibration Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Calibration ID: RC2400034 **Signal ID:** synergi hydro rp
Instrument ID: R-HPLC-05

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Acetic Acid	TRG	Average RF	% RSD	9.5	≤	6.325E4	
Butanoic Acid (Butyric Acid)	TRG	Average RF	% RSD	2.2	≤	5.72E4	
Propionic Acid	TRG	Average RF	% RSD	9.3	≤	6.194E4	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2401280
Project: Olean OU3 - 6 Month Sampling 2024 **Calibration Date:** 12/30/2000

Initial Calibration Verification Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Calibration ID: RC2400034 **Signal ID:** synergi hydro rp
Instrument ID: R-HPLC-05

#	Lab Code	Sample Name	File Location	Acquisition Date
11	RC2400034-11	ICV	I:\ACQUDATA\HPLC05\data\020624\A0011101.D	12/30/2000 09:48

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Acetic Acid	50.0	46.1	6.325E4	5.829E4	-7.852	±30	Average RF
Butanoic Acid (Butyric Acid)	50.0	48.9	5.72E4	5.595E4	-2.180	±30	Average RF
Propionic Acid	50.0	44.9	6.194E4	5.563E4	-10.178	±30	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Analyzed:**	02/20/24 12:54

Continuing Calibration Verification (CCV) Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method:	Organic Acids	**Calibration Date:**	12/30/2000
File ID:	I:\ACQUDATA\HPLC05\data\022024\A0011138.D\	**Calibration ID:**	RC2400034
Signal ID:	synergi hydro rp	**Analysis Lot:**	832893
		Units:	mg/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Acetic Acid	50.0	48.0	6.325E4	6.078E4	-3.9	NA	±20	Average RF
Butanoic Acid (Butyric Acid)	50.0	49.9	5.72E4	5.709E4	-0.2	NA	±20	Average RF
Propionic Acid	50.0	51.4	6.194E4	6.368E4	2.8	NA	±20	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Analyzed:**	02/20/24 17:37

Continuing Calibration Verification (CCV) Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method:	Organic Acids	**Calibration Date:**	12/30/2000
File ID:	I:\ACQUDATA\HPLC05\data\022024\A0011144.D\	**Calibration ID:**	RC2400034
Signal ID:	synergi hydro rp	**Analysis Lot:**	832893
		Units:	mg/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Acetic Acid	50.0	48.1	6.325E4	6.09E4	-3.7	NA	±20	Average RF
Butanoic Acid (Butyric Acid)	50.0	53.1	5.72E4	6.072E4	6.2	NA	±20	Average RF
Propionic Acid	50.0	52.4	6.194E4	6.489E4	4.8	NA	±20	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Analyzed:**	02/20/24 22:20

Continuing Calibration Verification (CCV) Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method:	Organic Acids	**Calibration Date:**	12/30/2000
File ID:	I:\ACQUDATA\HPLC05\data\022024\A0011150.D\	**Calibration ID:**	RC2400034
Signal ID:	synergi hydro rp	**Analysis Lot:**	832893
		Units:	mg/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Acetic Acid	50.0	47.9	6.325E4	6.058E4	-4.2	NA	±20	Average RF
Butanoic Acid (Butyric Acid)	50.0	51.1	5.72E4	5.844E4	2.2	NA	±20	Average RF
Propionic Acid	50.0	51.4	6.194E4	6.363E4	2.7	NA	±20	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Analyzed:**	02/21/24 02:14

Continuing Calibration Verification (CCV) Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method:	Organic Acids	**Calibration Date:**	12/30/2000
File ID:	I:\ACQUDATA\HPLC05\data\022024\A0011155.D\	**Calibration ID:**	RC2400034
Signal ID:	synergi hydro rp	**Analysis Lot:**	832893
		Units:	mg/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Acetic Acid	50.0	47.9	6.325E4	6.058E4	-4.2	NA	±20	Average RF
Butanoic Acid (Butyric Acid)	50.0	51.4	5.72E4	5.872E4	2.7	NA	±20	Average RF
Propionic Acid	50.0	49.3	6.194E4	6.103E4	-1.5	NA	±20	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Analyzed:**	02/21/24 16:35

Continuing Calibration Verification (CCV) Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method:	Organic Acids	**Calibration Date:**	12/30/2000
File ID:	I:\ACQUDATA\HPLC05\data\022124\A0011162.D\	**Calibration ID:**	RC2400034
Signal ID:	synergi hydro rp	**Analysis Lot:**	833209
		Units:	mg/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Acetic Acid	50.0	46.1	6.325E4	5.828E4	-7.9	NA	±20	Average RF
Butanoic Acid (Butyric Acid)	50.0	49.9	5.72E4	5.708E4	-0.2	NA	±20	Average RF
Propionic Acid	50.0	49.6	6.194E4	6.143E4	-0.8	NA	±20	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Analyzed:**	02/22/24 09:05

Continuing Calibration Verification (CCV) Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method:	Organic Acids	**Calibration Date:**	12/30/2000
File ID:	I:\ACQUDATA\HPLC05\data\022124\A0011183.D\	**Calibration ID:**	RC2400034
Signal ID:	synergi hydro rp	**Analysis Lot:**	833209
		Units:	mg/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Acetic Acid	50.0	48.1	6.325E4	6.085E4	-3.8	NA	±20	Average RF
Butanoic Acid (Butyric Acid)	50.0	47.0	5.72E4	5.372E4	-6.1	NA	±20	Average RF
Propionic Acid	50.0	49.3	6.194E4	6.109E4	-1.4	NA	±20	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Analyzed:**	02/21/24 21:19

Continuing Calibration Verification (CCV) Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method:	Organic Acids	**Calibration Date:**	12/30/2000
File ID:	I:\ACQUDATA\HPLC05\data\022124\A0011168.D\	**Calibration ID:**	RC2400034
Signal ID:	synergi hydro rp	**Analysis Lot:**	833209
		Units:	mg/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Acetic Acid	50.0	47.7	6.325E4	6.031E4	-4.7	NA	±20	Average RF
Butanoic Acid (Butyric Acid)	50.0	49.5	5.72E4	5.656E4	-1.1	NA	±20	Average RF
Propionic Acid	50.0	49.7	6.194E4	6.154E4	-0.6	NA	±20	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Analyzed:**	02/22/24 02:00

Continuing Calibration Verification (CCV) Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method:	Organic Acids	**Calibration Date:**	12/30/2000
File ID:	I:\ACQUDATA\HPLC05\data\022124\A0011174.D\	**Calibration ID:**	RC2400034
Signal ID:	synergi hydro rp	**Analysis Lot:**	833209
		Units:	mg/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Acetic Acid	50.0	48.6	6.325E4	6.15E4	-2.8	NA	±20	Average RF
Butanoic Acid (Butyric Acid)	50.0	51.4	5.72E4	5.877E4	2.8	NA	±20	Average RF
Propionic Acid	50.0	49.2	6.194E4	6.099E4	-1.5	NA	±20	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Analyzed:**	02/22/24 05:58

Continuing Calibration Verification (CCV) Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method:	Organic Acids	**Calibration Date:**	12/30/2000
File ID:	I:\ACQUDATA\HPLC05\data\022124\A0011179.D\	**Calibration ID:**	RC2400034
Signal ID:	synergi hydro rp	**Analysis Lot:**	833209
		Units:	mg/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Acetic Acid	50.0	47.9	6.325E4	6.068E4	-4.1	NA	±20	Average RF
Butanoic Acid (Butyric Acid)	50.0	47.8	5.72E4	5.466E4	-4.4	NA	±20	Average RF
Propionic Acid	50.0	48.4	6.194E4	5.999E4	-3.2	NA	±20	Average RF

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041

Analysis Run Log

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids **Analysis Lot:**832893
Instrument ID:R-HPLC-05

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\HPLC05\data\022024\A0011140.D\	Lab Control Sample	RQ2401840-02	12/30/2000	00:04:00	
I:\ACQUDATA\HPLC05\data\022024\A0011155.D\	Continuing Calibration Verification	RQ2401840-09	12/30/2000	00:27:51	
I:\ACQUDATA\HPLC05\data\022024\A0011141.D\	Duplicate Lab Control Sample	RQ2401840-03	12/30/2000	17:48:13	
I:\ACQUDATA\HPLC05\data\022024\A0011149.D\	OLN-FB002-B007	R2401280-012	12/31/2000	03:47:56	
I:\ACQUDATA\HPLC05\data\022024\A0011147.D\	OLN-RU011-F007	R2401280-010	12/31/2000	03:48:19	
I:\ACQUDATA\HPLC05\data\022024\A0011138.D\	Continuing Calibration Verification	RQ2401840-04	2/20/2024	12:54:03	
I:\ACQUDATA\HPLC05\data\022024\A0011139.D\	Method Blank	RQ2401840-01	2/20/2024	13:41:15	
I:\ACQUDATA\HPLC05\data\022024\A0011140.D\	Lab Control Sample	RQ2401840-02	2/20/2024	14:26:19	
I:\ACQUDATA\HPLC05\data\022024\A0011141.D\	Duplicate Lab Control Sample	RQ2401840-03	2/20/2024	15:13:27	
I:\ACQUDATA\HPLC05\data\022024\A0011142.D\	OLN-RU009-F007	R2401280-008	2/20/2024	16:02:44	
I:\ACQUDATA\HPLC05\data\022024\A0011143.D\	OLN-RU009-F007 MS	RQ2401840-05	2/20/2024	16:49:49	
I:\ACQUDATA\HPLC05\data\022024\A0011144.D\	Continuing Calibration Verification	RQ2401840-07	2/20/2024	17:37:06	
I:\ACQUDATA\HPLC05\data\022024\A0011145.D\	OLN-RU009-F007 DMS	RQ2401840-06	2/20/2024	18:24:11	
I:\ACQUDATA\HPLC05\data\022024\A0011146.D\	OLN-RU028-F007	R2401280-009	2/20/2024	19:11:23	
I:\ACQUDATA\HPLC05\data\022024\A0011147.D\	OLN-RU011-F007	R2401280-010	2/20/2024	19:56:27	
I:\ACQUDATA\HPLC05\data\022024\A0011149.D\	OLN-FB002-B007	R2401280-012	2/20/2024	21:31:04	
I:\ACQUDATA\HPLC05\data\022024\A0011150.D\	Continuing Calibration Verification	RQ2401840-08	2/20/2024	22:20:30	
I:\ACQUDATA\HPLC05\data\022024\A0011151.D\	OLN-RU015-F007	R2401280-013	2/20/2024	23:07:43	
I:\ACQUDATA\HPLC05\data\022024\A0011155.D\	Continuing Calibration Verification	RQ2401840-09	2/21/2024	02:14:05	
I:\ACQUDATA\HPLC05\data\022024\A0011159.D\	Continuing Calibration Verification	RQ2401840-09	2/21/2024	05:24:50	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041

Analysis Run Log

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids **Analysis Lot:**833209
Instrument ID:R-HPLC-05

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\HPLC05\data\022124\A0011165.D\	Duplicate Lab Control Sample	RQ2401989-04	12/30/2000	00:48:24	
I:\ACQUDATA\HPLC05\data\022124\A0011174.D\	Continuing Calibration Verification	RQ2401989-08	12/30/2000	02:48:20	
I:\ACQUDATA\HPLC05\data\022124\A0011163.D\	Method Blank	RQ2401989-02	12/30/2000	09:47:55	
I:\ACQUDATA\HPLC05\data\022124\A0011164.D\	Lab Control Sample	RQ2401989-03	12/30/2000	09:48:11	
I:\ACQUDATA\HPLC05\data\022124\A0011183.D\	Continuing Calibration Verification	RQ2401989-10	12/30/2000	17:48:07	
I:\ACQUDATA\HPLC05\data\022124\A0011162.D\	Continuing Calibration Verification	RQ2401989-01	2/21/2024	16:35:52	
I:\ACQUDATA\HPLC05\data\022124\A0011163.D\	Method Blank	RQ2401989-02	2/21/2024	17:20:57	
I:\ACQUDATA\HPLC05\data\022124\A0011164.D\	Lab Control Sample	RQ2401989-03	2/21/2024	18:08:14	
I:\ACQUDATA\HPLC05\data\022124\A0011165.D\	Duplicate Lab Control Sample	RQ2401989-04	2/21/2024	18:55:30	
I:\ACQUDATA\HPLC05\data\022124\A0011166.D\	OLN-RU27A-F007	R2401280-011	2/21/2024	19:44:55	
I:\ACQUDATA\HPLC05\data\022124\A0011167.D\	OLN-RU016-F007	R2401280-014	2/21/2024	20:31:58	
I:\ACQUDATA\HPLC05\data\022124\A0011168.D\	Continuing Calibration Verification	RQ2401989-07	2/21/2024	21:19:10	
I:\ACQUDATA\HPLC05\data\022124\A0011168.D\	Continuing Calibration Verification	RQ2401989-08	2/21/2024	21:19:10	
I:\ACQUDATA\HPLC05\data\022124\A0011169.D\	OLN-FD001-D007	R2401280-015	2/21/2024	22:06:14	
I:\ACQUDATA\HPLC05\data\022124\A0011170.D\	OLN-RU020-F007	R2401280-016	2/21/2024	22:53:27	
I:\ACQUDATA\HPLC05\data\022124\A0011171.D\	OLN-RU019-F007	R2401280-017	2/21/2024	23:40:44	
I:\ACQUDATA\HPLC05\data\022124\A0011172.D\	OLN-RU021-F007	R2401280-018	2/22/2024	00:28:04	
I:\ACQUDATA\HPLC05\data\022124\A0011173.D\	OLN-RU021-F007 MS	RQ2401989-05	2/22/2024	01:15:25	
I:\ACQUDATA\HPLC05\data\022124\A0011174.D\	Continuing Calibration Verification	RQ2401989-09	2/22/2024	02:00:28	
I:\ACQUDATA\HPLC05\data\022124\A0011175.D\	OLN-RU021-F007 DMS	RQ2401989-06	2/22/2024	02:49:53	
I:\ACQUDATA\HPLC05\data\022124\A0011176.D\	OLN-UA002-F007	R2401280-019	2/22/2024	03:37:04	
I:\ACQUDATA\HPLC05\data\022124\A0011177.D\	OLN-EB001-E007	R2401280-020	2/22/2024	04:24:17	
I:\ACQUDATA\HPLC05\data\022124\A0011178.D\	OLN-UA003-F007	R2401280-022	2/22/2024	05:11:24	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2401280
Project: Olean OU3 - 6 Month Sampling 2024/300-082.0041

Analysis Run Log

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids **Analysis Lot:**833209
Instrument ID:R-HPLC-05

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\HPLC05\data\022124\A0011179.D\	Continuing Calibration Verification	RQ2401989-10	2/22/2024	05:58:39	
I:\ACQUDATA\HPLC05\data\022124\A0011179.D\	Continuing Calibration Verification	RQ2401989-09	2/22/2024	05:58:39	
I:\ACQUDATA\HPLC05\data\022124\A0011180.D\	OLN-RU008-F007	R2401280-023	2/22/2024	06:45:50	
I:\ACQUDATA\HPLC05\data\022124\A0011181.D\	OLN-FB003-B007	R2401280-024	2/22/2024	07:32:56	
I:\ACQUDATA\HPLC05\data\022124\A0011182.D\	OLN-FD002-D007	R2401280-025	2/22/2024	08:20:06	
I:\ACQUDATA\HPLC05\data\022124\A0011183.D\	Continuing Calibration Verification	RQ2401989-07	2/22/2024	09:05:07	

Metabolic Acids | Analyst: EDeGracia | Run Method: NEWMETA

Instrument: R-HPLC-05 | Date: 2/20/24 | Quant Method: MA000220624.M

ICAL: RC 2400034 | LIMS Run#: 832893

Setup: Column: Synergi | Col.Temp: 35°C | Flow: 0.6mL/min

Mobile Phase: 0.02M KH_2PO_4 in 0.1M H_3PO_4 | ul Inj.: 50µL

Mobile Phase ID: 233667

Pos.	Sample	Diln.*	Stds. ID	pH	Filtered	File#	OK?	Comments
2	BLANK			<2	N	A0011135	Y	
↓	↓					-136		
						-137		
1	CCV	50µL/1mL	231674			-138		
2	MB					-139		
3	LCS	20µL/1mL	232600			-140		
4	DLCS	↓	↓			-141		
5	R2401280-008					-142		
6	-008MS	20µL/1mL	232600			-143		
1	CCV	50µL/1mL	231674			-144		
7	R2401280-008DMS	20µL/1mL	232600			-145		
8	-009					-146		
9	-010					-147	↓	
10	-011					-148	N	re-run @dilution
11	-012					-149	Y	
1	CCV	50µL/1mL	231674			-150	↓	
12	R2401280-013					-151	↓	
13	BUTY MDL	10µL/1mL				-152	N	
14	4COMP MDL	2µL/1mL				-153		
15	PYR MDL	100µL/1mL	4COMPMDL			-154		
1	CCV	50µL/1mL	231674			-155		
16	BUTY LODV	5µL/1mL				-156		
17	4COMP LODV	1µL/1mL				-157		
18	PYR LODV	100µL/1mL	4COMP LODV			-158		
1	CCV	50µL/1mL	231674	↓	↓	-159	Y	
						EDG 2/21/24		

Primary: 231674 exp: 2/29/24 | Secondary: 232600 Exp: 4/7/24

pH Paper: Hydrion | Acidified DI: 232944 | Filters: NA

MB is Acidified DI

*Notation for standards is Amount of Standard/Final Volume with Acidified DI.

Metabolic Acids | Analyst: KP | Run Method: NewMeta
Instrument: R-HPLC-05 | Date: 02/21/24 | Quant Method: MA00020624.M
ICAL: RC 2400034 | LIMS Run#: 833209
Setup: Column: Synergi | Col.Temp: 35°C Flow: 0.6 mL/min
Mobile Phase: 0.02M KH_2PO_4 in 0.1M H_3PO_4 | ul Inj.: 50ul
Mobile Phase ID: 2336067

Pos.	Sample	Diln.*	Stds. ID	pH	Filtered	File#	OK?	Comments
2	Blank			<2	N	A00111160	—	
2	Blank					-161	—	
1	CCV	50ul/1mL				-162	y	
2	MB					-163		
3	LCS	20ul/1mL	2326000			-164		
4	DLCS	↓	2326000			-165		
5	R2401280-11/2	50ul/1mL				-166		
6	1 -14					-167	↓	
1	CCV	50ul/1mL	2311674			-168	y	
7	R2401280-15					-169		
8	1 -16					-170		
9	1 -17					-171		
10	1 -18					-172		
11	1 -18MS	20ul/1mL	2326000			-173	↓	
1	CCV	50ul/1mL	2311674			-174	y	
12	R2401280-18DMS	20ul/1mL	2326000			-175		
13	1 -19					-176		
14	1 -20					-177		
15	1 -22					-178		
1	CCV	50ul/1mL	2311674			-179	y	
16	R2401280-23					-180		
17	1 -24					-181		
18	1 -25					-182	↓	
1	CCV	50ul/1mL	2311674			-183	y	
19	Pyr. LODV	100ul/1mL	4CompLOD			-184	y	
20	Pyr MDLV	100ul/1mL	4CompMDL			-185	N	Can't use this MDL Run: 4Comp+PyrMDL Failed ↓
21	4Comp LODV	1ml/1mL	2326000			-186	y	
22	4Comp MDLV	2ml/1mL				-187	N	
23	Bulk LODV	5ml/1mL				-188	y	
24	Bulk MDLV	10ml/1mL	↓			-189	y	
1	CCV	50ul/1mL	2311674 KP 2.23.24	↓	↓	-190	y	

Primary: 2311674 exp: 2/29/24 Secondary: 2326000 Exp: 4/7/24
pH Paper: Hydrion Acidified DI: 232944 Filters: N/A
MB is Acidified DI

*Notation for standards is Amount of Standard/Final Volume with Acidified DI.

Metals

ALS Environmental—Rochester Laboratory
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Phone (585) 288-5380 Fax (585) 288-8475
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Form 1

Inorganic Analysis Data Sheet

Metals by EPA 6010C

Workorder

R2401280

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 - 6 Month Sampling 2024

06/07/2024

ALS Environmental–Rochester Laboratory
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Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

OLN-CW013-F007

	Collected	Received	Matrix	Prep Method
R2401280-002	02/12/24 1432	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 19:47	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	6230		ug/L	70	100	1	02/21/24 19:47	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	362		ug/L	4	10	1	02/21/24 19:47	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

OLN-CW13A-F007

	Collected	Received	Matrix	Prep Method
R2401280-003	02/12/24 1452	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 19:50	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	3670		ug/L	70	100	1	02/21/24 19:50	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	2900		ug/L	4	10	1	02/21/24 19:50	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

OLN-FB001-B007

	Collected	Received	Matrix	Prep Method
R2401280-004	02/12/24 1515	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 19:54	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	100	U	ug/L	70	100	1	02/21/24 19:54	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	10	U	ug/L	4	10	1	02/21/24 19:54	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

OLN-WW18M-F007

	Collected	Received	Matrix	Prep Method
R2401280-006	02/13/24 0800	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 19:57	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	100	U	ug/L	70	100	1	02/21/24 19:57	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	11		ug/L	4	10	1	02/21/24 19:57	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

OLN-RU009-F007

	Collected	Received	Matrix	Prep Method
R2401280-008	02/13/24 1136	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 20:00	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	100	U	ug/L	70	100	1	02/21/24 20:00	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	10	U	ug/L	4	10	1	02/21/24 20:00	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

OLN-RU028-F007

	Collected	Received	Matrix	Prep Method
R2401280-009	02/13/24 1227	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 20:03	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	100	U	ug/L	70	100	1	02/21/24 20:03	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	10	U	ug/L	4	10	1	02/21/24 20:03	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

OLN-RU011-F007

	Collected	Received	Matrix	Prep Method
R2401280-010	02/13/24 1332	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 20:06	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	230		ug/L	70	100	1	02/21/24 20:06	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	767		ug/L	4	10	1	02/21/24 20:06	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

OLN-RU27A-F007

	Collected	Received	Matrix	Prep Method
R2401280-011	02/13/24 1441	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	18		ug/L	6	10	1	02/21/24 20:10	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	42300		ug/L	70	100	1	02/21/24 20:10	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	120000		ug/L	400	1000	100	02/22/24 17:21	R-ICP-AES-07_833186	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

OLN-FB002-B007

	Collected	Received	Matrix	Prep Method
R2401280-012	02/13/24 1500	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 20:19	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	100	U	ug/L	70	100	1	02/21/24 20:19	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	10	U	ug/L	4	10	1	02/21/24 20:19	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

OLN-RU015-F007

	Collected	Received	Matrix	Prep Method
R2401280-013	02/13/24 1545	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 20:23	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	5490		ug/L	70	100	1	02/21/24 20:23	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	1170		ug/L	4	10	1	02/21/24 20:23	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

OLN-RU016-F007

	Collected	Received	Matrix	Prep Method
R2401280-014	02/13/24 1700	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 20:26	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	100	U	ug/L	70	100	1	02/21/24 20:26	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	238		ug/L	4	10	1	02/21/24 20:26	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

OLN-FD001-D007

	Collected	Received	Matrix	Prep Method
R2401280-015	02/13/24 2200	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 20:29	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	5470		ug/L	70	100	1	02/21/24 20:29	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	1170		ug/L	4	10	1	02/21/24 20:29	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

OLN-RU020-F007

	Collected	Received	Matrix	Prep Method
R2401280-016	02/13/24 1225	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 20:32	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	830		ug/L	70	100	1	02/21/24 20:32	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	1170		ug/L	4	10	1	02/21/24 20:32	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

OLN-RU019-F007

	Collected	Received	Matrix	Prep Method
R2401280-017	02/13/24 1330	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 20:35	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	29800		ug/L	70	100	1	02/21/24 20:35	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	13800		ug/L	80	200	20	02/22/24 17:24	R-ICP-AES-07_833186	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

OLN-RU021-F007

	Collected	Received	Matrix	Prep Method
R2401280-018	02/13/24 1538	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	76		ug/L	6	10	1	02/21/24 20:39	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	57400		ug/L	1300	2000	20	02/23/24 14:16	R-ICP-AES-07_833320	434254
P	Manganese, Dissolved	4740		ug/L	4	10	1	02/21/24 20:39	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

OLN-UA002-F007

	Collected	Received	Matrix	Prep Method
R2401280-019	02/13/24 1703	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 21:01	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	120		ug/L	70	100	1	02/21/24 21:01	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	46		ug/L	4	10	1	02/21/24 21:01	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

OLN-EB001-E007

	Collected	Received	Matrix	Prep Method
R2401280-020	02/13/24 1730	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 21:05	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	100	U	ug/L	70	100	1	02/21/24 21:05	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	10	U	ug/L	4	10	1	02/21/24 21:05	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

OLN-UA003-F007

	Collected	Received	Matrix	Prep Method
R2401280-022	02/14/24 0900	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	6	J	ug/L	6	10	1	02/21/24 21:08	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	1550		ug/L	70	100	1	02/21/24 21:08	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	246		ug/L	4	10	1	02/21/24 21:08	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

OLN-RU008-F007

	Collected	Received	Matrix	Prep Method
R2401280-023	02/14/24 0831	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 21:11	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	100	U	ug/L	70	100	1	02/21/24 21:11	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	234		ug/L	4	10	1	02/21/24 21:11	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

OLN-FB003-B007

	Collected	Received	Matrix	Prep Method
R2401280-024	02/14/24 0900	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 21:14	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	100	U	ug/L	70	100	1	02/21/24 21:14	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	10	U	ug/L	4	10	1	02/21/24 21:14	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

OLN-FD002-D007

	Collected	Received	Matrix	Prep Method
R2401280-025	02/14/24 2200	02/15/24 1056	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 21:47	R-ICP-AES-07_833056	434255
P	Iron, Dissolved	100	U	ug/L	70	100	1	02/21/24 21:47	R-ICP-AES-07_833056	434255
P	Manganese, Dissolved	232		ug/L	4	10	1	02/21/24 21:47	R-ICP-AES-07_833056	434255

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

Method Blank

	Matrix	**Prep Method**
R2401280-MB1	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 19:41	R-ICP-AES-07_833055	434254
P	Iron, Dissolved	100	U	ug/L	70	100	1	02/21/24 19:41	R-ICP-AES-07_833055	434254
P	Manganese, Dissolved	10	U	ug/L	4	10	1	02/21/24 19:41	R-ICP-AES-07_833055	434254

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

Method Blank

	Matrix	**Prep Method**
R2401280-MB2	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	02/21/24 21:40	R-ICP-AES-07_833056	434255
P	Iron, Dissolved	100	U	ug/L	70	100	1	02/21/24 21:40	R-ICP-AES-07_833056	434255
P	Manganese, Dissolved	10	U	ug/L	4	10	1	02/21/24 21:40	R-ICP-AES-07_833056	434255

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Metals Cover Page

Analyst: MFM **Date:** 2/22/24 **Instrument:** ICP7

Data File: 7FEB22 **Reviewed By:** NM **Entered By:** NM

Starlims Run #	Analytes Used	Batch ID	Method	Failed Analytes	Repeats
833186	Na	434027	6010C		
	Na	434028	6010C		
	MnKNa	434252	6010C		
	FeMn	434254	6010C		
833187	CaFeSe	434309	6010C Soil		
	CuFePbZn	434308	6010C Soil		

ICP-7 Run Log

Serial number: MY2309CQ22

Analyst: MFM Date: 2/22/24 Data File: 7FEB22

	Prep Date	Lot #			Prep Date	Lot #
MRL	2/8/24	M844 01194		Cal Std 1	10/2/23	M844 0008B
ICSA	2/12/24	M844 0132F		Cal Std 2	10/2/23	M844 0023B
ICSAB	12/21/23	M844 0140G		Cal Std 5/ HLCCV1	1/31/24	M844 0039B
Int. Std	2/13/24	M844 0149D		HLCCV2	1/31/24	M844 0058H
ICV/CCV	2/22/24	M844 0058H		HLCCV3	12/6/23	M844 0096C

(Cal Std 4 is a 1/5 and Cal Std 3 is a 1/100 dilution of Cal Std 5)

Blank Prep - Daily	NHO3	HCl		Pipet Used	DOD Pipet Verification		IEC Date
Lot	231748	233283		M36, M37	—		—

1:1	PBW-434027		S1:21	HLCCV2	CCV
1:2	LCSW-434027		S1:22	HLCCV3	CCB
1:3	R2401143-004 5X		S1:18	HLCCV1	R2401217-010 10X
1:4	R2401143-005 5X		S1:6	Continuing Calibration Verification	CCV
1:5	R2401143-015 5X		S1:7	Continuing Calibration Blank	CCB
1:48	R2401143-015L 25X		1:25	PBS-434309	CRDL
S1:6	Continuing Calibration Verification		1:26	LCSS-434309	ICSA
S1:7	Continuing Calibration Blank		1:27	R2401277-001	ICSAB
1:6	PBW-434028		1:50	R2401277-001S	CCV
1:7	LCSW-434028		1:51	R2401277-001SD	CCB
1:8	R2401135-004 20X		1:52	R2401277-001A	
1:9	R2401141-003 5X		1:53	R2401277-001L 5X	
1:10	R2401141-004 20X		1:28	R2401277-001 10X	
1:11	R2401141-004L 100X		1:29	R2401277-001S 10X	
1:12	R2401141-006 5X		1:30	R2401277-001SD 10X	
1:13	R2401153-002 5X		S1:6	Continuing Calibration Verification	
1:14	R2401153-002L 25X		S1:7	Continuing Calibration Blank	
S1:6	Continuing Calibration Verification		1:31	R2401277-001A 10X	
S1:7	Continuing Calibration Blank		1:32	R2401277-001L 50X	MFM 2/22/24
1:15	PBW-434252		S1:6	Continuing Calibration Verification	
1:49	FBLK-434252		S1:7	Continuing Calibration Blank	
1:16	LCSW-434252		1:33	PBS-434308	
1:17	R2401218-002 10X		1:34	LCSS-434308	
1:18	R2401218-003 10X		1:35	R2401252-003 10X	
1:19	R2401218-003L 50X		1:36	R2401252-004 10X	
S1:6	Continuing Calibration Verification		1:37	R2401281-001 10X	
S1:7	Continuing Calibration Blank		1:38	R2401312-001 10X	
1:20	PBW-434254		1:39	R2401333-001 10X	
1:21	LCSW-434254		1:40	R2401333-002 10X	
1:22	R2401280-011 100X		1:41	R2401333-003 10X	
1:23	R2401280-017 20X		1:42	R2401333-003S 10X	
1:24	R2401280-017L 100X		S1:6	Continuing Calibration Verification	
1:54	R2401280-018 20X		S1:7	Continuing Calibration Blank	
1:55	R2401280-018S 20X		1:43	R2401333-003SD 10X	
1:56	R2401280-018SD 20X		1:44	R2401333-003A 10X	
1:57	R2401280-018A 20X		1:45	R2401333-003L 50X	
1:58	R2401280-018L 100X		1:46	R2401334-001 10X	
S1:6	Continuing Calibration Verification		1:47	R2401334-003 10X	
S1:7	Continuing Calibration Blank		S1:6	Continuing Calibration Verification	
S1:3	Contract Required Detection Limit		S1:7	Continuing Calibration Blank	
S1:4	Interference Check Solution A		S1:3	Contract Required Detection Limit	
S1:5	Interference Check Solution AB		S1:4	Interference Check Solution A	
			S1:5	Interference Check Solution AB	
			S1:6	Continuing Calibration Verification	
			S1:7	Continuing Calibration Blank	

R2401217-010(10X)

Created Date/Time	2/22/2024 14:19:39	Software Version	7.6.1.12212
Instrument Name	MY2309CQ22	Firmware Version	5590
File Path	C:\Agilent\ICP Expert\My Results\2024\7FEB22.esws		

Notes MFM 2/22/24

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
2/22/2024 15:01:54	Blank	Ag (328.068 nm)	0.0000	N/A	-262.4628
	Blank	Al (237.312 nm)	0.0000	N/A	66.9182
	Blank	As (188.980 nm)	0.0000	N/A	-14.9736
	Blank	B (249.772 nm)	0.0000	N/A	39.3018
	Blank	Ba (230.424 nm)	0.0000	N/A	-4.3869
	Blank	Be (313.107 nm)	0.0000	N/A	-207.5123
	Blank	Ca (317.933 nm)	0.0000	N/A	2843.2361
	Blank	Cd (214.439 nm)	0.0000	N/A	2.9965
	Blank	Co (230.786 nm)	0.0000	N/A	52.8802
	Blank	Cr (267.716 nm)	0.0000	N/A	-24.5224
	Blank	Cu (327.395 nm)	0.0000	N/A	-38.1796
	Blank	Fe (234.350 nm)	0.0000	N/A	173.5681
	Blank	K (766.491 nm)	0.0000	N/A	-279.8711
	Blank	Mg (279.078 nm)	0.0000	N/A	-19.2389
	Blank	Mn (257.610 nm)	0.0000	N/A	-5.8316
	Blank	Mo (202.032 nm)	0.0000	N/A	-7.3816
	Blank	Na (588.995 nm)	0.0000	N/A	-10409.3429
	Blank	Ni (230.299 nm)	0.0000	N/A	74.2989
	Blank	Pb (220.353 nm)	0.0000	N/A	10.8184
	Blank	Sb (217.582 nm)	0.0000	N/A	12.7836
	Blank	Se (196.026 nm)	0.0000	N/A	-0.3759
	Blank	Sn (189.925 nm)	0.0000	N/A	7.1752
	Blank	Sr (216.596 nm)	0.0000	N/A	-48.0504
	Blank	Ti (336.122 nm)	0.0000	N/A	-179.1900
	Blank	Tl (190.794 nm)	0.0000	N/A	1.3827
	Blank	V (292.401 nm)	0.0000	N/A	-56.5503
	Blank	Y (360.074 nm)	1.00	0.00	470745.57
	Blank	Y_R (360.074 nm)	1.00	0.00	469878.52
	Blank	Zn (213.857 nm)	0.0000	N/A	-49.9281
2/22/2024 15:05:10	Standard 1	Ag (328.068 nm)		N/A	-263.4023
	Standard 1	Al (237.312 nm)		N/A	113.2907
	Standard 1	As (188.980 nm)	0.0050	N/A	-4.3100
	Standard 1	B (249.772 nm)		N/A	51.1849
	Standard 1	Ba (230.424 nm)	0.0200	N/A	1006.0042
	Standard 1	Be (313.107 nm)		N/A	-198.2169
	Standard 1	Ca (317.933 nm)		N/A	22814.3134
	Standard 1	Cd (214.439 nm)	0.0010	N/A	85.5695
	Standard 1	Co (230.786 nm)	0.0030	N/A	100.9890
	Standard 1	Cr (267.716 nm)	0.0050	N/A	205.7583
	Standard 1	Cu (327.395 nm)	0.0100	N/A	326.4832
	Standard 1	Fe (234.350 nm)		N/A	473.2847
	Standard 1	K (766.491 nm)		N/A	1543.9896
	Standard 1	Mg (279.078 nm)		N/A	1489.0209
	Standard 1	Mn (257.610 nm)	0.0100	N/A	3381.0309
	Standard 1	Mo (202.032 nm)	0.0250	N/A	186.1471
	Standard 1	Na (588.995 nm)		N/A	-5223.2103
	Standard 1	Ni (230.299 nm)		N/A	67.0549
	Standard 1	Pb (220.353 nm)	0.0050	N/A	32.3223
	Standard 1	Sb (217.582 nm)	0.0100	N/A	36.3189
	Standard 1	Se (196.026 nm)		N/A	0.6428
	Standard 1	Sn (189.925 nm)		N/A	8.5945
	Standard 1	Sr (216.596 nm)		N/A	-43.8688

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Standard 1	Ti (336.122 nm)		N/A	-249.6740
	Standard 1	Tl (190.794 nm)	0.0100	N/A	9.1912
	Standard 1	V (292.401 nm)	0.0030	N/A	55.6573
	Standard 1	Y (360.074 nm)	1.00	0.41	470768.32
	Standard 1	Y_R (360.074 nm)	1.00	0.41	469885.18
	Standard 1	Zn (213.857 nm)	0.0100	N/A	492.0566
2/22/2024 15:08:25	Standard 2	Ag (328.068 nm)		N/A	-261.3169
	Standard 2	Al (237.312 nm)	0.1000	N/A	308.0485
	Standard 2	As (188.980 nm)	0.0100	N/A	1.2261
	Standard 2	B (249.772 nm)	0.2000	N/A	6425.3059
	Standard 2	Ba (230.424 nm)		N/A	-3.1728
	Standard 2	Be (313.107 nm)	0.0030	N/A	2935.7292
	Standard 2	Ca (317.933 nm)	1.0000	N/A	42084.7428
	Standard 2	Cd (214.439 nm)	0.0050	N/A	341.2680
	Standard 2	Co (230.786 nm)		N/A	54.9140
	Standard 2	Cr (267.716 nm)		N/A	-13.8747
	Standard 2	Cu (327.395 nm)	0.0200	N/A	694.6347
	Standard 2	Fe (234.350 nm)		N/A	209.5595
	Standard 2	K (766.491 nm)	2.0000	N/A	1660.1310
	Standard 2	Mg (279.078 nm)	1.0000	N/A	3013.2613
	Standard 2	Mn (257.610 nm)		N/A	14.1622
	Standard 2	Mo (202.032 nm)		N/A	-9.6524
	Standard 2	Na (588.995 nm)	1.0000	N/A	194.3456
	Standard 2	Ni (230.299 nm)		N/A	71.9865
	Standard 2	Pb (220.353 nm)	0.0500	N/A	296.8126
	Standard 2	Sb (217.582 nm)	0.0600	N/A	150.8642
	Standard 2	Se (196.026 nm)	0.0100	N/A	6.7802
	Standard 2	Sn (189.925 nm)	0.5000	N/A	1491.1500
	Standard 2	Sr (216.596 nm)		N/A	-43.5746
	Standard 2	Ti (336.122 nm)		N/A	-265.5611
	Standard 2	Tl (190.794 nm)		N/A	1.0300
	Standard 2	V (292.401 nm)		N/A	-59.6245
	Standard 2	Y (360.074 nm)	1.00	0.34	470839.30
	Standard 2	Y_R (360.074 nm)	1.00	0.33	469973.64
	Standard 2	Zn (213.857 nm)		N/A	-25.2406
2/22/2024 15:11:40	Standard 3	Ag (328.068 nm)	0.0100	N/A	349.2764
	Standard 3	Al (237.312 nm)		N/A	578.5194
	Standard 3	As (188.980 nm)		N/A	22.2681
	Standard 3	B (249.772 nm)		N/A	1723.2186
	Standard 3	Ba (230.424 nm)		N/A	10176.3770
	Standard 3	Be (313.107 nm)	0.0050	N/A	5348.3776
	Standard 3	Ca (317.933 nm)	0.5000	N/A	23469.8590
	Standard 3	Cd (214.439 nm)		N/A	690.4763
	Standard 3	Co (230.786 nm)	0.0500	N/A	874.0692
	Standard 3	Cr (267.716 nm)	0.0100	N/A	451.0892
	Standard 3	Cu (327.395 nm)		N/A	841.0875
	Standard 3	Fe (234.350 nm)	0.1000	N/A	2443.8752
	Standard 3	K (766.491 nm)	0.5000	N/A	154.8108
	Standard 3	Mg (279.078 nm)	0.5000	N/A	1557.5930
	Standard 3	Mn (257.610 nm)		N/A	5116.4405
	Standard 3	Mo (202.032 nm)		N/A	361.7277
	Standard 3	Na (588.995 nm)	0.5000	N/A	-4785.6639
	Standard 3	Ni (230.299 nm)	0.0400	N/A	590.4572
	Standard 3	Pb (220.353 nm)		N/A	67.3435
	Standard 3	Sb (217.582 nm)		N/A	246.6998
	Standard 3	Se (196.026 nm)		N/A	7.0653
	Standard 3	Sn (189.925 nm)		N/A	306.1867

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Standard 3	Sr (216.596 nm)	0.0500	N/A	967.6382
	Standard 3	Ti (336.122 nm)	0.0500	N/A	5982.7705
	Standard 3	Tl (190.794 nm)	0.0200	N/A	24.3111
	Standard 3	V (292.401 nm)	0.0500	N/A	1861.1559
	Standard 3	Y (360.074 nm)	1.01	0.31	475197.44
	Standard 3	Y_R (360.074 nm)	1.01	0.31	474339.10
	Standard 3	Zn (213.857 nm)	0.0200	N/A	1133.7567
2/22/2024 15:14:55	Standard 4	Ag (328.068 nm)	0.2000	N/A	11245.2373
	Standard 4	Al (237.312 nm)	4.0000	N/A	9793.3769
	Standard 4	As (188.980 nm)	0.4000	N/A	665.2331
	Standard 4	B (249.772 nm)	1.0000	N/A	31861.8625
	Standard 4	Ba (230.424 nm)	4.0000	N/A	198169.1149
	Standard 4	Be (313.107 nm)	0.1000	N/A	107718.8544
	Standard 4	Ca (317.933 nm)	10.0000	N/A	390843.8685
	Standard 4	Cd (214.439 nm)	0.2000	N/A	12969.5720
	Standard 4	Co (230.786 nm)	1.0000	N/A	15836.7186
	Standard 4	Cr (267.716 nm)	0.2000	N/A	8677.5240
	Standard 4	Cu (327.395 nm)	0.5000	N/A	17352.7393
	Standard 4	Fe (234.350 nm)	2.0000	N/A	43152.6961
	Standard 4	K (766.491 nm)	10.0000	N/A	9133.9450
	Standard 4	Mg (279.078 nm)	10.0000	N/A	29864.2999
	Standard 4	Mn (257.610 nm)	0.3000	N/A	98216.6972
	Standard 4	Mo (202.032 nm)	1.0000	N/A	7795.8307
	Standard 4	Na (588.995 nm)	10.0000	N/A	97347.8366
	Standard 4	Ni (230.299 nm)	0.8000	N/A	9834.0032
	Standard 4	Pb (220.353 nm)	0.2000	N/A	1125.4874
	Standard 4	Sb (217.582 nm)	2.0000	N/A	4620.2264
	Standard 4	Se (196.026 nm)	0.2000	N/A	148.6796
	Standard 4	Sn (189.925 nm)	2.0000	N/A	5921.8800
	Standard 4	Sr (216.596 nm)	1.0000	N/A	19510.9856
	Standard 4	Ti (336.122 nm)	1.0000	N/A	124046.6481
	Standard 4	Tl (190.794 nm)	0.4000	N/A	499.7918
	Standard 4	V (292.401 nm)	1.0000	N/A	38541.8665
	Standard 4	Y (360.074 nm)	0.98	0.41	463010.45
	Standard 4	Y_R (360.074 nm)	0.98	0.41	462203.26
	Standard 4	Zn (213.857 nm)	0.4000	N/A	21777.9738
2/22/2024 15:18:10	Standard 5	Ag (328.068 nm)	1.0000	N/A	58369.7686
	Standard 5	Al (237.312 nm)	20.0000	N/A	49513.6567
	Standard 5	As (188.980 nm)	2.0000	N/A	3525.0821
	Standard 5	B (249.772 nm)	5.0000	N/A	164746.7687
	Standard 5	Ba (230.424 nm)	20.0000	N/A	967590.5065
	Standard 5	Be (313.107 nm)	0.5000	N/A	546920.4466
	Standard 5	Ca (317.933 nm)	50.0000	N/A	1922376.8107
	Standard 5	Cd (214.439 nm)	1.0000	N/A	64276.4819
	Standard 5	Co (230.786 nm)	5.0000	N/A	77923.7710
	Standard 5	Cr (267.716 nm)	1.0000	N/A	43395.3717
	Standard 5	Cu (327.395 nm)	2.5000	N/A	88540.9850
	Standard 5	Fe (234.350 nm)	10.0000	N/A	215068.1817
	Standard 5	K (766.491 nm)	50.0000	N/A	49394.3855
	Standard 5	Mg (279.078 nm)	50.0000	N/A	152109.6772
	Standard 5	Mn (257.610 nm)	1.5000	N/A	489007.7176
	Standard 5	Mo (202.032 nm)	5.0000	N/A	39934.2506
	Standard 5	Na (588.995 nm)	50.0000	N/A	539559.4325
	Standard 5	Ni (230.299 nm)	4.0000	N/A	48194.4520
	Standard 5	Pb (220.353 nm)	1.0000	N/A	5458.6392
	Standard 5	Sb (217.582 nm)	10.0000	N/A	23799.0992
	Standard 5	Se (196.026 nm)	1.0000	N/A	769.0977

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Standard 5	Sn (189.925 nm)	10.0000	N/A	29360.3792
	Standard 5	Sr (216.596 nm)	5.0000	N/A	96740.9595
	Standard 5	Ti (336.122 nm)	5.0000	N/A	629616.9193
	Standard 5	Tl (190.794 nm)	2.0000	N/A	2516.4526
	Standard 5	V (292.401 nm)	5.0000	N/A	196137.3065
	Standard 5	Y (360.074 nm)	0.94	0.40	444312.18
	Standard 5	Y_R (360.074 nm)	0.94	0.40	443474.80
	Standard 5	Zn (213.857 nm)	2.0000	N/A	110695.0105
2/22/2024 15:21:54	Initial Calibration Verification	Ag (328.068 nm)	0.5159	0.20	29962.2970
	Initial Calibration Verification	Al (237.312 nm)	9.9464	0.31	24642.0744
	Initial Calibration Verification	As (188.980 nm)	0.9893	0.58	1733.3883
	Initial Calibration Verification	B (249.772 nm)	2.4244	0.22	79796.3091
	Initial Calibration Verification	Ba (230.424 nm)	10.2400	0.21	495863.9234
	Initial Calibration Verification	Be (313.107 nm)	0.2411	0.18	263490.7812
	Initial Calibration Verification	Ca (317.933 nm)	25.5446	0.17	983933.9138
	Initial Calibration Verification	Cd (214.439 nm)	0.5086	0.24	32706.0229
	Initial Calibration Verification	Co (230.786 nm)	2.5342	0.24	39541.6759
	Initial Calibration Verification	Cr (267.716 nm)	0.5130	0.14	22251.5643
	Initial Calibration Verification	Cu (327.395 nm)	1.2352	0.27	43697.8062
	Initial Calibration Verification	Fe (234.350 nm)	5.0076	0.20	107784.5719
	Initial Calibration Verification	K (766.491 nm)	24.1085	0.37	23622.1928
	Initial Calibration Verification	Mg (279.078 nm)	25.1219	0.26	76364.0461
	Initial Calibration Verification	Mn (257.610 nm)	0.7421	0.17	241961.1293
	Initial Calibration Verification	Mo (202.032 nm)	2.5322	0.23	20202.7493
	Initial Calibration Verification	Na (588.995 nm)	24.9203	0.40	263480.9826
	Initial Calibration Verification	Ni (230.299 nm)	2.0855	0.22	25176.2031
	Initial Calibration Verification	Pb (220.353 nm)	0.5088	0.26	2785.6805
	Initial Calibration Verification	Sb (217.582 nm)	4.9109	0.29	11679.9128
	Initial Calibration Verification	Se (196.026 nm)	0.4825	0.61	370.4774
	Initial Calibration Verification	Sn (189.925 nm)	5.0514	0.32	14839.2173
	Initial Calibration Verification	Sr (216.596 nm)	2.4903	0.18	48177.7469
	Initial Calibration Verification	Ti (336.122 nm)	2.5173	0.11	316723.7397
	Initial Calibration Verification	Tl (190.794 nm)	1.0262	0.39	1291.3946
	Initial Calibration Verification	V (292.401 nm)	2.5035	0.21	98116.0145
	Initial Calibration Verification	Y (360.074 nm)	0.97	0.44	455980.41
	Initial Calibration Verification	Y_R (360.074 nm)	0.97	0.44	455137.21
	Initial Calibration Verification	Zn (213.857 nm)	0.9884	0.23	54650.0612
2/22/2024 15:25:08	Initial Calibration Blank	Ag (328.068 nm)	-0.0001 u	> 100.00	-266.5343
	Initial Calibration Blank	Al (237.312 nm)	-0.0006 u	> 100.00	65.3940
	Initial Calibration Blank	As (188.980 nm)	0.0026	41.91	-10.4271
	Initial Calibration Blank	B (249.772 nm)	0.0022	19.30	111.7646
	Initial Calibration Blank	Ba (230.424 nm)	0.0003	16.43	11.4599
	Initial Calibration Blank	Be (313.107 nm)	0.0000	14.95	-197.1600
	Initial Calibration Blank	Ca (317.933 nm)	0.0018	16.80	2912.5985
	Initial Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	0.8804
	Initial Calibration Blank	Co (230.786 nm)	0.0000 u	> 100.00	52.3144
	Initial Calibration Blank	Cr (267.716 nm)	-0.0002 u	46.86	-31.6743
	Initial Calibration Blank	Cu (327.395 nm)	0.0001	6.55	-33.5515
	Initial Calibration Blank	Fe (234.350 nm)	0.0023	32.99	223.0169
	Initial Calibration Blank	K (766.491 nm)	0.0550	26.33	-225.3551
	Initial Calibration Blank	Mg (279.078 nm)	-0.0005 u	> 100.00	-20.7339
	Initial Calibration Blank	Mn (257.610 nm)	0.0000	47.15	2.8770
	Initial Calibration Blank	Mo (202.032 nm)	0.0077	9.88	54.3645
	Initial Calibration Blank	Na (588.995 nm)	-0.0007 u	> 100.00	-10416.5271
	Initial Calibration Blank	Ni (230.299 nm)	0.0002 u	> 100.00	76.1095
	Initial Calibration Blank	Pb (220.353 nm)	0.0003	45.36	12.5880
	Initial Calibration Blank	Sb (217.582 nm)	0.0133 Z 0.0644	11.42	44.4326 Z

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Initial Calibration Blank	Se (196.026 nm)	0.0007 u	> 100.00	0.1834
	Initial Calibration Blank	Sn (189.925 nm)	0.0014	74.46	11.1961
	Initial Calibration Blank	Sr (216.596 nm)	0.0001 u	> 100.00	-46.1185
	Initial Calibration Blank	Ti (336.122 nm)	0.0071	28.43	708.5653
	Initial Calibration Blank	Tl (190.794 nm)	0.0009 u	> 100.00	2.4554
	Initial Calibration Blank	V (292.401 nm)	0.0001 u	> 100.00	-54.5307
	Initial Calibration Blank	Y (360.074 nm)	1.01	0.34	475939.65
	Initial Calibration Blank	Y_R (360.074 nm)	1.01	0.33	475076.14
	Initial Calibration Blank	Zn (213.857 nm)	0.0003	10.46	-34.5566
2/22/2024 15:28:21	Contract Required Detection Limit	Ag (328.068 nm)	0.0099	0.83	315.6370
	Contract Required Detection Limit	Al (237.312 nm)	0.1970	0.75	553.6652
	Contract Required Detection Limit	As (188.980 nm)	0.0225	7.97	24.8742
	Contract Required Detection Limit	B (249.772 nm)	0.1921	0.23	6357.2415
	Contract Required Detection Limit	Ba (230.424 nm)	0.2062	0.14	9983.0004
	Contract Required Detection Limit	Be (313.107 nm)	0.0048	0.24	5091.8061
	Contract Required Detection Limit	Ca (317.933 nm)	1.0175	0.08	41921.4218
	Contract Required Detection Limit	Cd (214.439 nm)	0.0104	0.31	671.7995
	Contract Required Detection Limit	Co (230.786 nm)	0.0510	0.62	848.1860
	Contract Required Detection Limit	Cr (267.716 nm)	0.0102	0.92	420.3717
	Contract Required Detection Limit	Cu (327.395 nm)	0.0245	0.72	827.7668
	Contract Required Detection Limit	Fe (234.350 nm)	0.1091	0.74	2518.6262
	Contract Required Detection Limit	K (766.491 nm)	0.9308	1.04	642.9316
	Contract Required Detection Limit	Mg (279.078 nm)	0.9843	0.22	2973.6639
	Contract Required Detection Limit	Mn (257.610 nm)	0.0153	0.03	4983.9691
	Contract Required Detection Limit	Mo (202.032 nm)	0.0251	1.63	192.5753
	Contract Required Detection Limit	Na (588.995 nm)	0.9476	0.79	4.9433
	Contract Required Detection Limit	Ni (230.299 nm)	0.0401	1.20	557.4565
	Contract Required Detection Limit	Pb (220.353 nm)	0.0096	7.63	63.1823
	Contract Required Detection Limit	Sb (217.582 nm)	0.0625	2.36	161.2097
	Contract Required Detection Limit	Se (196.026 nm)	0.0089	29.42	6.4698
	Contract Required Detection Limit	Sn (189.925 nm)	0.5029	0.32	1483.8822
	Contract Required Detection Limit	Sr (216.596 nm)	0.1008	0.26	1903.1084
	Contract Required Detection Limit	Ti (336.122 nm)	0.0516	1.98	6317.9741
	Contract Required Detection Limit	Tl (190.794 nm)	0.0176	2.67	23.4603
	Contract Required Detection Limit	V (292.401 nm)	0.0491	0.39	1869.6605
	Contract Required Detection Limit	Y (360.074 nm)	1.00	0.36	472353.61
	Contract Required Detection Limit	Y_R (360.074 nm)	1.00	0.37	471484.89
	Contract Required Detection Limit	Zn (213.857 nm)	0.0194	0.76	1021.6561
2/22/2024 15:31:35	Interference Check Solution A	Ag (328.068 nm)	-0.0002 u	38.42	-275.4221
	Interference Check Solution A	Al (237.312 nm)	255.4409 o	0.07	631202.4920
	Interference Check Solution A	As (188.980 nm)	-0.0043 u	28.68	-22.6148
	Interference Check Solution A	B (249.772 nm)	0.1112	0.25	3697.2722
	Interference Check Solution A	Ba (230.424 nm)	0.0009	11.56	37.9085
	Interference Check Solution A	Be (313.107 nm)	0.0000 u	56.42	-224.6698
	Interference Check Solution A	Ca (317.933 nm)	242.1315 o	0.18	9302392.1824
	Interference Check Solution A	Cd (214.439 nm)	-0.0010 u	3.96	-59.8044
	Interference Check Solution A	Co (230.786 nm)	0.0019	17.17	82.2197
	Interference Check Solution A	Cr (267.716 nm)	0.0011	11.88	23.4920
	Interference Check Solution A	Cu (327.395 nm)	0.0009	28.65	-7.4784
	Interference Check Solution A	Fe (234.350 nm)	94.9245 o	0.14	2040062.0612
	Interference Check Solution A	K (766.491 nm)	0.0268	25.43	-253.3312
	Interference Check Solution A	Mg (279.078 nm)	264.7246 o	0.13	804875.9522
	Interference Check Solution A	Mn (257.610 nm)	0.0014	1.26	455.1254
	Interference Check Solution A	Mo (202.032 nm)	-0.0012 u	52.78	-17.2581
	Interference Check Solution A	Na (588.995 nm)	-0.0623 u	9.00	-11094.5966
	Interference Check Solution A	Ni (230.299 nm)	0.0020	38.98	98.7590
	Interference Check Solution A	Pb (220.353 nm)	0.0015	77.14	18.9891

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Interference Check Solution A	Sb (217.582 nm)	-0.0018 u	46.97	8.5654
	Interference Check Solution A	Se (196.026 nm)	-0.0011 u	23.78	-1.2434
	Interference Check Solution A	Sn (189.925 nm)	0.0036	35.15	17.6214
	Interference Check Solution A	Sr (216.596 nm)	0.0099	4.19	143.1789
	Interference Check Solution A	Ti (336.122 nm)	0.0033	26.02	233.1850
	Interference Check Solution A	Tl (190.794 nm)	0.0042	22.77	6.6796
	Interference Check Solution A	V (292.401 nm)	0.0020	8.04	23.3927
	Interference Check Solution A	Y (360.074 nm)	0.89	0.35	417986.15
	Interference Check Solution A	Y_R (360.074 nm)	0.89	0.35	417058.95
	Interference Check Solution A	Zn (213.857 nm)	0.0132 K +/-0.02	0.59	680.9326 K
2/22/2024 15:34:49	Interference Check Solution AB	Ag (328.068 nm)	0.2063	0.20	11827.0951
	Interference Check Solution AB	Al (237.312 nm)	256.8991 o	0.16	634805.2532
	Interference Check Solution AB	As (188.980 nm)	0.0938	2.94	150.8422
	Interference Check Solution AB	B (249.772 nm)	0.1256	0.32	4172.7075
	Interference Check Solution AB	Ba (230.424 nm)	0.5281	0.07	25567.5008
	Interference Check Solution AB	Be (313.107 nm)	0.4835	0.07	528604.3599
	Interference Check Solution AB	Ca (317.933 nm)	243.3225 o	0.13	9348133.0076
	Interference Check Solution AB	Cd (214.439 nm)	0.9837	0.11	63247.4073
	Interference Check Solution AB	Co (230.786 nm)	0.4909	0.27	7702.4349
	Interference Check Solution AB	Cr (267.716 nm)	0.5108	0.16	22154.5077
	Interference Check Solution AB	Cu (327.395 nm)	0.5309	0.18	18757.6237
	Interference Check Solution AB	Fe (234.350 nm)	95.4463 o	0.12	2051273.9443
	Interference Check Solution AB	K (766.491 nm)	0.0161 u	> 100.00	-263.9188
	Interference Check Solution AB	Mg (279.078 nm)	266.3549 o	0.14	809832.9723
	Interference Check Solution AB	Mn (257.610 nm)	0.4941	0.10	161117.3498
	Interference Check Solution AB	Mo (202.032 nm)	-0.0013 u	28.24	-17.6927
	Interference Check Solution AB	Na (588.995 nm)	-0.0507 u	6.51	-10966.6590
	Interference Check Solution AB	Ni (230.299 nm)	1.0001	0.20	12112.4996
	Interference Check Solution AB	Pb (220.353 nm)	0.0516	2.61	292.2977
	Interference Check Solution AB	Sb (217.582 nm)	0.6067	0.27	1454.0788
	Interference Check Solution AB	Se (196.026 nm)	0.0505	9.40	38.4458
	Interference Check Solution AB	Sn (189.925 nm)	0.0037	25.70	18.1114
	Interference Check Solution AB	Sr (216.596 nm)	0.0102	5.61	149.7788
	Interference Check Solution AB	Ti (336.122 nm)	0.0026	19.41	149.7275
	Interference Check Solution AB	Tl (190.794 nm)	0.0982	0.61	124.8767
	Interference Check Solution AB	V (292.401 nm)	0.5085	0.16	19882.8381
	Interference Check Solution AB	Y (360.074 nm)	0.89	0.42	418152.19
	Interference Check Solution AB	Y_R (360.074 nm)	0.89	0.43	417241.60
	Interference Check Solution AB	Zn (213.857 nm)	1.0278	0.15	56830.9978
2/22/2024 15:38:03	Continuing Calibration Verification	Ag (328.068 nm)	0.5171	0.11	30035.1160
	Continuing Calibration Verification	Al (237.312 nm)	10.0114	0.17	24802.6556
	Continuing Calibration Verification	As (188.980 nm)	0.9867	0.15	1728.8308
	Continuing Calibration Verification	B (249.772 nm)	2.4243	0.06	79792.7158
	Continuing Calibration Verification	Ba (230.424 nm)	10.2467	0.18	496188.2810
	Continuing Calibration Verification	Be (313.107 nm)	0.2417	0.09	264125.9419
	Continuing Calibration Verification	Ca (317.933 nm)	25.6879	0.07	989437.9099
	Continuing Calibration Verification	Cd (214.439 nm)	0.5107	0.04	32835.9504
	Continuing Calibration Verification	Co (230.786 nm)	2.5411	0.44	39649.6916
	Continuing Calibration Verification	Cr (267.716 nm)	0.5145	0.08	22318.9326
	Continuing Calibration Verification	Cu (327.395 nm)	1.2328	0.49	43612.7397
	Continuing Calibration Verification	Fe (234.350 nm)	5.0508	0.07	108713.7516
	Continuing Calibration Verification	K (766.491 nm)	24.0657	0.35	23579.7134
	Continuing Calibration Verification	Mg (279.078 nm)	25.2340	0.10	76704.8143
	Continuing Calibration Verification	Mn (257.610 nm)	0.7440	0.10	242592.1279
	Continuing Calibration Verification	Mo (202.032 nm)	2.5323	0.48	20203.0987
	Continuing Calibration Verification	Na (588.995 nm)	24.9494	0.27	263801.2433
	Continuing Calibration Verification	Ni (230.299 nm)	2.0900	0.02	25231.2853

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	Pb (220.353 nm)	0.5127	0.24	2806.9497
	Continuing Calibration Verification	Sb (217.582 nm)	4.9194	0.18	11700.0559
	Continuing Calibration Verification	Se (196.026 nm)	0.4869	0.99	373.8573
	Continuing Calibration Verification	Sn (189.925 nm)	5.0606	0.08	14866.2926
	Continuing Calibration Verification	Sr (216.596 nm)	2.4969	0.36	48305.6718
	Continuing Calibration Verification	Ti (336.122 nm)	2.5087	0.06	315647.5725
	Continuing Calibration Verification	Tl (190.794 nm)	1.0346	0.49	1301.9531
	Continuing Calibration Verification	V (292.401 nm)	2.5114	0.06	98424.4031
	Continuing Calibration Verification	Y (360.074 nm)	0.97	0.45	456243.35
	Continuing Calibration Verification	Y_R (360.074 nm)	0.97	0.44	455352.83
	Continuing Calibration Verification	Zn (213.857 nm)	0.9873	0.39	54588.0011
2/22/2024 15:41:16	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u	> 100.00	-260.0551
	Continuing Calibration Blank	Al (237.312 nm)	0.0005 u	> 100.00	68.1731
	Continuing Calibration Blank	As (188.980 nm)	0.0026	23.54	-10.4297
	Continuing Calibration Blank	B (249.772 nm)	0.0017	23.52	94.8871
	Continuing Calibration Blank	Ba (230.424 nm)	0.0002	8.99	6.1345
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	77.98	-197.6574
	Continuing Calibration Blank	Ca (317.933 nm)	0.0009	7.10	2877.3872
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000	79.90	4.2521
	Continuing Calibration Blank	Co (230.786 nm)	0.0002	86.18	56.1984
	Continuing Calibration Blank	Cr (267.716 nm)	0.0002 u	> 100.00	-17.9686
	Continuing Calibration Blank	Cu (327.395 nm)	0.0001 u	> 100.00	-33.2737
	Continuing Calibration Blank	Fe (234.350 nm)	0.0049	16.86	279.2629
	Continuing Calibration Blank	K (766.491 nm)	0.0443	43.19	-235.9748
	Continuing Calibration Blank	Mg (279.078 nm)	-0.0011 u	68.87	-22.6552
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000 u	84.58	-10.6503
	Continuing Calibration Blank	Mo (202.032 nm)	0.0062	8.20	41.7411
	Continuing Calibration Blank	Na (588.995 nm)	0.0064	44.20	-10339.2081
	Continuing Calibration Blank	Ni (230.299 nm)	0.0004	70.87	79.5871
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0005 u	32.31	8.2211
	Continuing Calibration Blank	Sb (217.582 nm)	0.0079	6.52	31.4415
	Continuing Calibration Blank	Se (196.026 nm)	0.0018 u	> 100.00	1.0435
	Continuing Calibration Blank	Sn (189.925 nm)	0.0023	22.45	13.8483
	Continuing Calibration Blank	Sr (216.596 nm)	0.0001	60.70	-45.5297
	Continuing Calibration Blank	Ti (336.122 nm)	0.0060	28.13	580.2067
	Continuing Calibration Blank	Tl (190.794 nm)	-0.0002 u	> 100.00	1.1848
	Continuing Calibration Blank	V (292.401 nm)	0.0000 u	> 100.00	-57.5939
	Continuing Calibration Blank	Y (360.074 nm)	1.01	0.30	476441.68
	Continuing Calibration Blank	Y_R (360.074 nm)	1.01	0.30	475529.24
	Continuing Calibration Blank	Zn (213.857 nm)	0.0001	16.45	-41.6728
2/22/2024 15:44:30	PBW-434027	Ag (328.068 nm)	-0.0001 u	> 100.00	-265.6841
	PBW-434027	Al (237.312 nm)	0.0002 u	> 100.00	67.5348
	PBW-434027	As (188.980 nm)	0.0019	94.49	-11.6229
	PBW-434027	B (249.772 nm)	0.0009	14.44	69.9328
	PBW-434027	Ba (230.424 nm)	0.0000 u	> 100.00	-2.8562
	PBW-434027	Be (313.107 nm)	0.0000	14.44	-190.5436
	PBW-434027	Ca (317.933 nm)	0.0056	0.89	3057.4346
	PBW-434027	Cd (214.439 nm)	0.0001	38.81	10.9674
	PBW-434027	Co (230.786 nm)	-0.0004 u	22.42	46.4406
	PBW-434027	Cr (267.716 nm)	0.0001	67.93	-22.0991
	PBW-434027	Cu (327.395 nm)	0.0002	10.44	-30.1469
	PBW-434027	Fe (234.350 nm)	0.0033	16.11	243.9737
	PBW-434027	K (766.491 nm)	0.0283 u	> 100.00	-251.8155
	PBW-434027	Mg (279.078 nm)	0.0017	72.53	-14.0347
	PBW-434027	Mn (257.610 nm)	0.0001	17.34	12.5229
	PBW-434027	Mo (202.032 nm)	0.0010	35.26	0.5591
	PBW-434027	Na (588.995 nm)	0.0052 u	> 100.00	-10352.1250

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	PBW-434027	Ni (230.299 nm)	-0.0003 u	> 100.00	70.4815
	PBW-434027	Pb (220.353 nm)	0.0001 u	> 100.00	11.3408
	PBW-434027	Sb (217.582 nm)	0.0060	17.48	27.0731
	PBW-434027	Se (196.026 nm)	0.0020 u	95.35	1.1321
	PBW-434027	Sn (189.925 nm)	0.0009	20.76	9.8949
	PBW-434027	Sr (216.596 nm)	0.0002	76.89	-44.2710
	PBW-434027	Ti (336.122 nm)	0.0016	53.86	27.5137
	PBW-434027	Tl (190.794 nm)	0.0000 u	> 100.00	1.3281
	PBW-434027	V (292.401 nm)	0.0000 u	> 100.00	-56.5443
	PBW-434027	Y (360.074 nm)	1.02	0.40	480853.69
	PBW-434027	Y_R (360.074 nm)	1.02	0.40	479993.99
	PBW-434027	Zn (213.857 nm)	0.0000 u	> 100.00	-50.4281
2/22/2024 15:47:44	LCSW-434027	Ag (328.068 nm)	0.0511	0.36	2733.1914
	LCSW-434027	Al (237.312 nm)	1.9403	0.32	4860.9555
	LCSW-434027	As (188.980 nm)	0.0395	7.21	54.7804
	LCSW-434027	B (249.772 nm)	0.9735	0.10	32065.4472
	LCSW-434027	Ba (230.424 nm)	2.0277	0.02	98188.0951
	LCSW-434027	Be (313.107 nm)	0.0482	0.04	52470.3283
	LCSW-434027	Ca (317.933 nm)	2.0168	0.06	80301.6436
	LCSW-434027	Cd (214.439 nm)	0.0516	0.35	3322.9410
	LCSW-434027	Co (230.786 nm)	0.5138	0.23	8059.0647
	LCSW-434027	Cr (267.716 nm)	0.2015	0.06	8727.0119
	LCSW-434027	Cu (327.395 nm)	0.2498	0.14	8807.1184
	LCSW-434027	Fe (234.350 nm)	0.9942	0.06	21539.4401
	LCSW-434027	K (766.491 nm)	18.6231	0.12	18183.7563
	LCSW-434027	Mg (279.078 nm)	1.9672	0.14	5962.1111
	LCSW-434027	Mn (257.610 nm)	0.4914	0.10	160229.4135
	LCSW-434027	Mo (202.032 nm)	0.4813	0.70	3833.6456
	LCSW-434027	Na (588.995 nm)	19.3866	0.27	202662.1082
	LCSW-434027	Ni (230.299 nm)	0.5273	0.08	6421.6336
	LCSW-434027	Pb (220.353 nm)	0.5104	0.39	2794.0572
	LCSW-434027	Sb (217.582 nm)	0.4915	0.94	1180.4468
	LCSW-434027	Se (196.026 nm)	0.9874	0.29	758.4582
	LCSW-434027	Sn (189.925 nm)	4.9541	0.15	14553.7096
	LCSW-434027	Sr (216.596 nm)	1.9967	0.28	38618.5490
	LCSW-434027	Ti (336.122 nm)	0.4891	0.06	61392.2588
	LCSW-434027	Tl (190.794 nm)	1.9776	0.26	2487.3869
	LCSW-434027	V (292.401 nm)	0.4906	0.04	19182.5611
	LCSW-434027	Y (360.074 nm)	1.00	0.33	469979.44
	LCSW-434027	Y_R (360.074 nm)	1.00	0.33	469100.16
	LCSW-434027	Zn (213.857 nm)	0.5111	0.21	28237.3023
2/22/2024 15:50:58	R2401143-004 5X	Ag (328.068 nm)	-0.0001 u	66.82	-271.0940
	R2401143-004 5X	Al (237.312 nm)	0.0247	6.07	127.8760
	R2401143-004 5X	As (188.980 nm)	0.0011	78.03	-13.0478
	R2401143-004 5X	B (249.772 nm)	0.0124	3.08	447.9892
	R2401143-004 5X	Ba (230.424 nm)	0.0036	2.13	167.7609
	R2401143-004 5X	Be (313.107 nm)	0.0000 u	> 100.00	-206.5477
	R2401143-004 5X	Ca (317.933 nm)	22.1551	0.05	853755.6027
	R2401143-004 5X	Cd (214.439 nm)	0.0000 u	> 100.00	1.5183
	R2401143-004 5X	Co (230.786 nm)	0.0004 u	> 100.00	58.9279
	R2401143-004 5X	Cr (267.716 nm)	0.0002 u	96.26	-16.0961
	R2401143-004 5X	Cu (327.395 nm)	0.0004	60.91	-23.2358
	R2401143-004 5X	Fe (234.350 nm)	0.0224	2.08	655.0648
	R2401143-004 5X	K (766.491 nm)	0.1569	18.99	-124.3568
	R2401143-004 5X	Mg (279.078 nm)	37.5552	0.04	114167.2996
	R2401143-004 5X	Mn (257.610 nm)	0.0004	1.75	133.9274
	R2401143-004 5X	Mo (202.032 nm)	0.0034	8.27	19.8912

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401143-004 5X	Na (588.995 nm)	12.7526	0.33	129749.8797
	R2401143-004 5X	Ni (230.299 nm)	0.0002	75.92	76.3822
	R2401143-004 5X	Pb (220.353 nm)	0.0002 u	> 100.00	11.7571
	R2401143-004 5X	Sb (217.582 nm)	0.0050	45.50	24.7629
	R2401143-004 5X	Se (196.026 nm)	0.0009 u	> 100.00	0.2969
	R2401143-004 5X	Sn (189.925 nm)	0.0029	20.74	15.7963
	R2401143-004 5X	Sr (216.596 nm)	0.2981	0.13	5724.7364
	R2401143-004 5X	Ti (336.122 nm)	0.0027	23.91	161.2345
	R2401143-004 5X	Tl (190.794 nm)	0.0011	72.11	2.7618
	R2401143-004 5X	V (292.401 nm)	-0.0001 u	47.25	-58.9218
	R2401143-004 5X	Y (360.074 nm)	0.99	0.29	465139.83
	R2401143-004 5X	Y_R (360.074 nm)	0.99	0.28	464180.65
	R2401143-004 5X	Zn (213.857 nm)	0.0008	16.16	-5.8206
2/22/2024 15:54:12	R2401143-005 5X	Ag (328.068 nm)	0.0001 u	> 100.00	-254.6714
	R2401143-005 5X	Al (237.312 nm)	0.0075	20.08	85.3502
	R2401143-005 5X	As (188.980 nm)	0.0007	85.45	-13.6830
	R2401143-005 5X	B (249.772 nm)	0.0275	0.47	942.8261
	R2401143-005 5X	Ba (230.424 nm)	0.0469	0.17	2267.2664
	R2401143-005 5X	Be (313.107 nm)	0.0000 u	38.22	-218.6389
	R2401143-005 5X	Ca (317.933 nm)	13.0485	0.08	503998.4314
	R2401143-005 5X	Cd (214.439 nm)	0.0000 u	> 100.00	5.7746
	R2401143-005 5X	Co (230.786 nm)	0.0002	22.77	55.9069
	R2401143-005 5X	Cr (267.716 nm)	0.0002	27.19	-14.7829
	R2401143-005 5X	Cu (327.395 nm)	0.0008	36.29	-9.2089
	R2401143-005 5X	Fe (234.350 nm)	0.0243	1.81	695.8944
	R2401143-005 5X	K (766.491 nm)	0.7596	5.83	473.1990
	R2401143-005 5X	Mg (279.078 nm)	22.1032	0.15	67185.6322
	R2401143-005 5X	Mn (257.610 nm)	0.0117	0.12	3823.1771
	R2401143-005 5X	Mo (202.032 nm)	0.0017	27.40	5.9150
	R2401143-005 5X	Na (588.995 nm)	24.7767	0.22	261902.8157
	R2401143-005 5X	Ni (230.299 nm)	0.0001 u	> 100.00	75.8063
	R2401143-005 5X	Pb (220.353 nm)	-0.0001 u	> 100.00	10.5367
	R2401143-005 5X	Sb (217.582 nm)	0.0043	34.79	23.0767
	R2401143-005 5X	Se (196.026 nm)	-0.0034 u	28.76	-3.0133
	R2401143-005 5X	Sn (189.925 nm)	0.0006 u	> 100.00	8.8395
	R2401143-005 5X	Sr (216.596 nm)	0.2863	0.13	5496.4391
	R2401143-005 5X	Ti (336.122 nm)	0.0010	45.52	-58.9323
	R2401143-005 5X	Tl (190.794 nm)	0.0003 u	> 100.00	1.7747
	R2401143-005 5X	V (292.401 nm)	0.0001 u	> 100.00	-51.5079
	R2401143-005 5X	Y (360.074 nm)	0.99	0.31	465191.12
	R2401143-005 5X	Y_R (360.074 nm)	0.99	0.31	464301.66
	R2401143-005 5X	Zn (213.857 nm)	0.0016	5.45	36.9320
2/22/2024 15:57:26	R2401143-015 5X	Ag (328.068 nm)	-0.0002 u	25.71	-276.6939
	R2401143-015 5X	Al (237.312 nm)	0.0052	47.02	79.7329
	R2401143-015 5X	As (188.980 nm)	0.0008	> 100.00	-13.5863
	R2401143-015 5X	B (249.772 nm)	0.0279	0.84	957.0218
	R2401143-015 5X	Ba (230.424 nm)	0.0481	0.16	2324.3697
	R2401143-015 5X	Be (313.107 nm)	0.0000	54.07	-199.6549
	R2401143-015 5X	Ca (317.933 nm)	13.1133	0.17	506485.4809
	R2401143-015 5X	Cd (214.439 nm)	0.0000 u	> 100.00	4.7410
	R2401143-015 5X	Co (230.786 nm)	0.0003 u	> 100.00	56.8410
	R2401143-015 5X	Cr (267.716 nm)	0.0002	9.03	-14.6906
	R2401143-015 5X	Cu (327.395 nm)	0.0009	38.12	-5.0819
	R2401143-015 5X	Fe (234.350 nm)	0.0092	2.39	370.8595
	R2401143-015 5X	K (766.491 nm)	0.7809	2.39	494.3084
	R2401143-015 5X	Mg (279.078 nm)	22.8327	0.04	69403.6608
	R2401143-015 5X	Mn (257.610 nm)	0.0036	0.91	1175.9730

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401143-015 5X	Mo (202.032 nm)	0.0015	13.37	4.7783
	R2401143-015 5X	Na (588.995 nm)	24.8199	0.33	262377.1786
	R2401143-015 5X	Ni (230.299 nm)	-0.0003 u	> 100.00	71.0965
	R2401143-015 5X	Pb (220.353 nm)	-0.0003 u	> 100.00	9.3861
	R2401143-015 5X	Sb (217.582 nm)	0.0014	81.10	16.0006
	R2401143-015 5X	Se (196.026 nm)	-0.0027 u	> 100.00	-2.4863
	R2401143-015 5X	Sn (189.925 nm)	0.0003	95.56	8.0385
	R2401143-015 5X	Sr (216.596 nm)	0.2924	0.23	5615.0611
	R2401143-015 5X	Ti (336.122 nm)	0.0006	55.89	-102.8288
	R2401143-015 5X	Tl (190.794 nm)	0.0008 u	> 100.00	2.3941
	R2401143-015 5X	V (292.401 nm)	-0.0001 u	85.18	-61.5407
	R2401143-015 5X	Y (360.074 nm)	0.99	0.25	465406.75
	R2401143-015 5X	Y_R (360.074 nm)	0.99	0.25	464462.35
	R2401143-015 5X	Zn (213.857 nm)	0.0024	3.90	85.5926
2/22/2024 16:00:40	R2401143-015L 25X	Ag (328.068 nm)	-0.0001 u	76.18	-270.2750
	R2401143-015L 25X	Al (237.312 nm)	0.0020	98.33	71.8914
	R2401143-015L 25X	As (188.980 nm)	0.0010 u	> 100.00	-13.1923
	R2401143-015L 25X	B (249.772 nm)	0.0057	1.94	227.4266
	R2401143-015L 25X	Ba (230.424 nm)	0.0098	1.73	470.0685
	R2401143-015L 25X	Be (313.107 nm)	0.0000 u	> 100.00	-202.5382
	R2401143-015L 25X	Ca (317.933 nm)	2.6840	0.48	105927.7014
	R2401143-015L 25X	Cd (214.439 nm)	0.0000 u	> 100.00	5.2608
	R2401143-015L 25X	Co (230.786 nm)	0.0000 u	> 100.00	52.4300
	R2401143-015L 25X	Cr (267.716 nm)	0.0002	54.55	-15.0634
	R2401143-015L 25X	Cu (327.395 nm)	0.0004	> 100.00	-25.6204
	R2401143-015L 25X	Fe (234.350 nm)	0.0026	9.19	230.3072
	R2401143-015L 25X	K (766.491 nm)	0.1530	31.31	-128.1998
	R2401143-015L 25X	Mg (279.078 nm)	4.6747	0.58	14194.1533
	R2401143-015L 25X	Mn (257.610 nm)	0.0008	4.22	239.5914
	R2401143-015L 25X	Mo (202.032 nm)	0.0001 u	> 100.00	-6.4841
	R2401143-015L 25X	Na (588.995 nm)	5.0205	0.25	44768.8786
	R2401143-015L 25X	Ni (230.299 nm)	0.0002 u	> 100.00	76.9190
	R2401143-015L 25X	Pb (220.353 nm)	-0.0003 u	> 100.00	8.9819
	R2401143-015L 25X	Sb (217.582 nm)	0.0012 u	> 100.00	15.7317
	R2401143-015L 25X	Se (196.026 nm)	-0.0019 u	> 100.00	-1.8723
	R2401143-015L 25X	Sn (189.925 nm)	0.0006	39.84	9.0088
	R2401143-015L 25X	Sr (216.596 nm)	0.0604	0.89	1122.5647
	R2401143-015L 25X	Ti (336.122 nm)	0.0004	51.46	-132.9714
	R2401143-015L 25X	Tl (190.794 nm)	0.0001 u	> 100.00	1.5499
	R2401143-015L 25X	V (292.401 nm)	-0.0001 u	> 100.00	-59.7476
	R2401143-015L 25X	Y (360.074 nm)	1.01	0.14	474922.08
	R2401143-015L 25X	Y_R (360.074 nm)	1.01	0.14	473970.84
	R2401143-015L 25X	Zn (213.857 nm)	0.0006	13.29	-15.6594
2/22/2024 16:03:54	Continuing Calibration Verification	Ag (328.068 nm)	0.5163	0.09	29986.7645
	Continuing Calibration Verification	Al (237.312 nm)	9.9769	0.13	24717.4763
	Continuing Calibration Verification	As (188.980 nm)	0.9805	0.14	1717.8501
	Continuing Calibration Verification	B (249.772 nm)	2.4247	0.10	79805.6406
	Continuing Calibration Verification	Ba (230.424 nm)	10.2246	0.23	495114.6455
	Continuing Calibration Verification	Be (313.107 nm)	0.2414	0.05	263817.7983
	Continuing Calibration Verification	Ca (317.933 nm)	25.5908	0.08	985707.7896
	Continuing Calibration Verification	Cd (214.439 nm)	0.5100	0.12	32796.0986
	Continuing Calibration Verification	Co (230.786 nm)	2.5331	0.23	39524.4559
	Continuing Calibration Verification	Cr (267.716 nm)	0.5142	0.12	22306.0294
	Continuing Calibration Verification	Cu (327.395 nm)	1.2315	0.32	43567.0087
	Continuing Calibration Verification	Fe (234.350 nm)	5.0136	0.08	107913.8601
	Continuing Calibration Verification	K (766.491 nm)	23.9803	0.33	23495.0317
	Continuing Calibration Verification	Mg (279.078 nm)	25.1493	0.03	76447.1424

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	Mn (257.610 nm)	0.7436	0.06	242461.3886
	Continuing Calibration Verification	Mo (202.032 nm)	2.5309	0.65	20192.0325
	Continuing Calibration Verification	Na (588.995 nm)	24.9341	0.39	263632.5999
	Continuing Calibration Verification	Ni (230.299 nm)	2.0896	0.07	25225.4930
	Continuing Calibration Verification	Pb (220.353 nm)	0.5097	0.02	2790.5361
	Continuing Calibration Verification	Sb (217.582 nm)	4.9152	0.17	11690.1155
	Continuing Calibration Verification	Se (196.026 nm)	0.4872	0.59	374.0587
	Continuing Calibration Verification	Sn (189.925 nm)	5.0558	0.07	14852.3758
	Continuing Calibration Verification	Sr (216.596 nm)	2.4951	0.15	48270.2053
	Continuing Calibration Verification	Ti (336.122 nm)	2.5079	0.06	315541.1742
	Continuing Calibration Verification	Tl (190.794 nm)	1.0284	0.10	1294.1291
	Continuing Calibration Verification	V (292.401 nm)	2.5066	0.04	98237.7817
	Continuing Calibration Verification	Y (360.074 nm)	0.97	0.53	455301.72
	Continuing Calibration Verification	Y_R (360.074 nm)	0.97	0.54	454460.53
	Continuing Calibration Verification	Zn (213.857 nm)	0.9858	0.04	54504.2886
2/22/2024 16:07:08	Continuing Calibration Blank	Ag (328.068 nm)	-0.0001 u	74.35	-269.1021
	Continuing Calibration Blank	Al (237.312 nm)	0.0004 u	> 100.00	67.9270
	Continuing Calibration Blank	As (188.980 nm)	0.0037	24.65	-8.3940
	Continuing Calibration Blank	B (249.772 nm)	0.0013	27.54	80.6198
	Continuing Calibration Blank	Ba (230.424 nm)	0.0002	86.35	3.0264
	Continuing Calibration Blank	Be (313.107 nm)	0.0000 u	> 100.00	-206.8244
	Continuing Calibration Blank	Ca (317.933 nm)	0.0004	52.85	2860.1395
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	4.9952
	Continuing Calibration Blank	Co (230.786 nm)	0.0001 u	> 100.00	54.3906
	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u	> 100.00	-25.0149
	Continuing Calibration Blank	Cu (327.395 nm)	-0.0003 u	> 100.00	-50.1318
	Continuing Calibration Blank	Fe (234.350 nm)	0.0037	18.21	252.6764
	Continuing Calibration Blank	K (766.491 nm)	0.0253	59.71	-254.8214
	Continuing Calibration Blank	Mg (279.078 nm)	0.0004 u	> 100.00	-17.8839
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000 u	> 100.00	-4.5635
	Continuing Calibration Blank	Mo (202.032 nm)	0.0066	10.80	45.5883
	Continuing Calibration Blank	Na (588.995 nm)	0.0061 u	96.67	-10342.3495
	Continuing Calibration Blank	Ni (230.299 nm)	0.0002 u	94.11	77.2878
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0003 u	> 100.00	9.4279
	Continuing Calibration Blank	Sb (217.582 nm)	0.0093	2.88	34.8404
	Continuing Calibration Blank	Se (196.026 nm)	-0.0013 u	> 100.00	-1.3374
	Continuing Calibration Blank	Sn (189.925 nm)	0.0018	50.77	12.4871
	Continuing Calibration Blank	Sr (216.596 nm)	-0.0001 u	80.01	-49.1735
	Continuing Calibration Blank	Ti (336.122 nm)	0.0059	27.53	566.8019
	Continuing Calibration Blank	Tl (190.794 nm)	0.0000 u	> 100.00	1.3316
	Continuing Calibration Blank	V (292.401 nm)	0.0000 u	> 100.00	-55.3660
	Continuing Calibration Blank	Y (360.074 nm)	1.01	0.20	476026.67
	Continuing Calibration Blank	Y_R (360.074 nm)	1.01	0.20	475203.75
	Continuing Calibration Blank	Zn (213.857 nm)	0.0002	48.39	-40.7185
2/22/2024 16:10:22	PBW-434028	Ag (328.068 nm)	0.0001 u	> 100.00	-258.8948
	PBW-434028	Al (237.312 nm)	0.0385	3.57	162.1467
	PBW-434028	As (188.980 nm)	0.0022	66.85	-11.1484
	PBW-434028	B (249.772 nm)	0.0005	25.68	57.1082
	PBW-434028	Ba (230.424 nm)	0.0001	77.35	-1.9594
	PBW-434028	Be (313.107 nm)	0.0000 u	> 100.00	-199.5572
	PBW-434028	Ca (317.933 nm)	0.0539	0.37	4914.2594
	PBW-434028	Cd (214.439 nm)	0.0002	14.58	13.0452
	PBW-434028	Co (230.786 nm)	-0.0001 u	> 100.00	50.8215
	PBW-434028	Cr (267.716 nm)	0.0001 u	> 100.00	-19.4967
	PBW-434028	Cu (327.395 nm)	0.0002	11.59	-31.0420
	PBW-434028	Fe (234.350 nm)	0.0018	25.08	213.2532
	PBW-434028	K (766.491 nm)	0.0104 u	> 100.00	-269.6080

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	PBW-434028	Mg (279.078 nm)	0.0020	26.31	-13.1151
	PBW-434028	Mn (257.610 nm)	0.0001	2.83	12.3616
	PBW-434028	Mo (202.032 nm)	0.0010	50.49	0.8845
	PBW-434028	Na (588.995 nm)	0.0119	39.08	-10278.7245
	PBW-434028	Ni (230.299 nm)	-0.0003 u	64.12	70.7257
	PBW-434028	Pb (220.353 nm)	-0.0004 u	83.10	8.7444
	PBW-434028	Sb (217.582 nm)	0.0056	37.88	26.0053
	PBW-434028	Se (196.026 nm)	-0.0021 u	> 100.00	-1.9525
	PBW-434028	Sn (189.925 nm)	-0.0001 u	> 100.00	6.8454
	PBW-434028	Sr (216.596 nm)	0.0003	27.05	-42.6166
	PBW-434028	Ti (336.122 nm)	0.0017	45.99	32.1200
	PBW-434028	Tl (190.794 nm)	0.0000 u	> 100.00	1.4276
	PBW-434028	V (292.401 nm)	-0.0002 u	41.14	-62.9023
	PBW-434028	Y (360.074 nm)	1.02	0.25	482457.97
	PBW-434028	Y_R (360.074 nm)	1.03	0.25	481639.62
	PBW-434028	Zn (213.857 nm)	0.0003	20.00	-35.2944
2/22/2024 16:13:36	LCSW-434028	Ag (328.068 nm)	0.0508	0.37	2714.6811
	LCSW-434028	Al (237.312 nm)	1.9258	0.20	4825.0603
	LCSW-434028	As (188.980 nm)	0.0391	2.40	54.2116
	LCSW-434028	B (249.772 nm)	0.9680	0.12	31884.4136
	LCSW-434028	Ba (230.424 nm)	2.0249	0.25	98050.4325
	LCSW-434028	Be (313.107 nm)	0.0479	0.18	52159.7081
	LCSW-434028	Ca (317.933 nm)	2.0027	0.10	79759.3313
	LCSW-434028	Cd (214.439 nm)	0.0512	0.11	3296.2742
	LCSW-434028	Co (230.786 nm)	0.5112	0.16	8018.0441
	LCSW-434028	Cr (267.716 nm)	0.2003	0.11	8671.2974
	LCSW-434028	Cu (327.395 nm)	0.2485	0.11	8760.3343
	LCSW-434028	Fe (234.350 nm)	0.9851	0.21	21343.4109
	LCSW-434028	K (766.491 nm)	18.5617	0.21	18122.8560
	LCSW-434028	Mg (279.078 nm)	1.9507	0.15	5911.9013
	LCSW-434028	Mn (257.610 nm)	0.4884	0.17	159247.0853
	LCSW-434028	Mo (202.032 nm)	0.4771	0.85	3800.8103
	LCSW-434028	Na (588.995 nm)	19.2695	0.22	201375.3787
	LCSW-434028	Ni (230.299 nm)	0.5238	0.30	6378.9830
	LCSW-434028	Pb (220.353 nm)	0.5081	0.23	2781.8137
	LCSW-434028	Sb (217.582 nm)	0.4881	0.72	1172.3680
	LCSW-434028	Se (196.026 nm)	0.9834	0.38	755.4120
	LCSW-434028	Sn (189.925 nm)	4.9127	0.13	14432.1557
	LCSW-434028	Sr (216.596 nm)	1.9947	0.45	38579.6519
	LCSW-434028	Ti (336.122 nm)	0.4874	0.16	61185.7355
	LCSW-434028	Tl (190.794 nm)	2.0069	0.24	2524.1674
	LCSW-434028	V (292.401 nm)	0.4872	0.16	19047.3865
	LCSW-434028	Y (360.074 nm)	1.00	0.47	470207.60
	LCSW-434028	Y_R (360.074 nm)	1.00	0.47	469381.24
	LCSW-434028	Zn (213.857 nm)	0.5088	0.10	28106.7970
2/22/2024 16:16:50	R2401135-004 20X	Ag (328.068 nm)	-0.0001 u	> 100.00	-265.5070
	R2401135-004 20X	Al (237.312 nm)	0.0141	12.47	101.8118
	R2401135-004 20X	As (188.980 nm)	-0.0003 u	> 100.00	-15.4480
	R2401135-004 20X	B (249.772 nm)	0.0060	3.30	237.2517
	R2401135-004 20X	Ba (230.424 nm)	0.0492	0.70	2378.7041
	R2401135-004 20X	Be (313.107 nm)	0.0000	54.33	-194.8009
	R2401135-004 20X	Ca (317.933 nm)	51.6740	0.72	1987487.9405
	R2401135-004 20X	Cd (214.439 nm)	0.0000 u	> 100.00	4.6624
	R2401135-004 20X	Co (230.786 nm)	0.0004	20.54	58.4325
	R2401135-004 20X	Cr (267.716 nm)	0.0000 u	> 100.00	-24.8937
	R2401135-004 20X	Cu (327.395 nm)	0.0001 u	> 100.00	-34.4156
	R2401135-004 20X	Fe (234.350 nm)	0.0275	2.96	764.4547

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401135-004 20X	K (766.491 nm)	2.5011	0.10	2199.8195
	R2401135-004 20X	Mg (279.078 nm)	5.0940	0.65	15469.1945
	R2401135-004 20X	Mn (257.610 nm)	0.0119	0.57	3864.7262
	R2401135-004 20X	Mo (202.032 nm)	0.0042	11.91	26.2844
	R2401135-004 20X	Na (588.995 nm)	30.7586	0.59	327647.2392
	R2401135-004 20X	Ni (230.299 nm)	0.0010	53.21	86.8730
	R2401135-004 20X	Pb (220.353 nm)	-0.0001 u	> 100.00	10.5042
	R2401135-004 20X	Sb (217.582 nm)	0.0041	81.53	22.5858
	R2401135-004 20X	Se (196.026 nm)	0.0027	69.62	1.6880
	R2401135-004 20X	Sn (189.925 nm)	0.0032	3.61	16.5574
	R2401135-004 20X	Sr (216.596 nm)	0.3266	0.64	6275.8887
	R2401135-004 20X	Ti (336.122 nm)	0.0027	26.27	161.3855
	R2401135-004 20X	Tl (190.794 nm)	0.0001 u	> 100.00	1.5166
	R2401135-004 20X	V (292.401 nm)	0.0000 u	> 100.00	-56.7033
	R2401135-004 20X	Y (360.074 nm)	0.98	0.29	461693.04
	R2401135-004 20X	Y_R (360.074 nm)	0.98	0.28	460843.82
	R2401135-004 20X	Zn (213.857 nm)	0.0002	33.36	-37.4576
2/22/2024 16:20:04	R2401141-003 5X	Ag (328.068 nm)	-0.0001 u	> 100.00	-268.5898
	R2401141-003 5X	Al (237.312 nm)	0.0124	23.80	97.6666
	R2401141-003 5X	As (188.980 nm)	-0.0014 u	87.74	-17.4725
	R2401141-003 5X	B (249.772 nm)	0.0122	1.21	440.1584
	R2401141-003 5X	Ba (230.424 nm)	0.0046	1.61	218.8199
	R2401141-003 5X	Be (313.107 nm)	0.0000	60.87	-193.3710
	R2401141-003 5X	Ca (317.933 nm)	54.4968	0.10	2095902.3812
	R2401141-003 5X	Cd (214.439 nm)	0.0000 u	> 100.00	3.5960
	R2401141-003 5X	Co (230.786 nm)	0.0004 u	> 100.00	58.5870
	R2401141-003 5X	Cr (267.716 nm)	0.0001 u	99.06	-18.0929
	R2401141-003 5X	Cu (327.395 nm)	0.0019	9.92	28.2842
	R2401141-003 5X	Fe (234.350 nm)	0.0195	2.01	592.8623
	R2401141-003 5X	K (766.491 nm)	1.3834	2.81	1091.7078
	R2401141-003 5X	Mg (279.078 nm)	8.4692	0.05	25731.3918
	R2401141-003 5X	Mn (257.610 nm)	0.0031	0.25	998.4890
	R2401141-003 5X	Mo (202.032 nm)	0.0017	38.79	6.2353
	R2401141-003 5X	Na (588.995 nm)	26.3893	0.18	279625.6905
	R2401141-003 5X	Ni (230.299 nm)	0.0003 u	> 100.00	77.4706
	R2401141-003 5X	Pb (220.353 nm)	-0.0002 u	> 100.00	9.6122
	R2401141-003 5X	Sb (217.582 nm)	0.0012 u	> 100.00	15.6827
	R2401141-003 5X	Se (196.026 nm)	-0.0012 u	> 100.00	-1.2726
	R2401141-003 5X	Sn (189.925 nm)	0.0012	61.51	10.7794
	R2401141-003 5X	Sr (216.596 nm)	0.2489	0.12	4771.5985
	R2401141-003 5X	Ti (336.122 nm)	0.0013	31.00	-12.8133
	R2401141-003 5X	Tl (190.794 nm)	0.0000 u	> 100.00	1.3980
	R2401141-003 5X	V (292.401 nm)	-0.0002 u	86.80	-63.4783
	R2401141-003 5X	Y (360.074 nm)	0.99	0.15	464322.45
	R2401141-003 5X	Y_R (360.074 nm)	0.99	0.15	463410.89
	R2401141-003 5X	Zn (213.857 nm)	0.0009	3.48	-0.1648
2/22/2024 16:23:18	R2401141-004 20X	Ag (328.068 nm)	-0.0001 u	47.66	-269.8274
	R2401141-004 20X	Al (237.312 nm)	0.0036	60.22	75.7020
	R2401141-004 20X	As (188.980 nm)	0.0010 u	> 100.00	-13.1613
	R2401141-004 20X	B (249.772 nm)	0.0072	3.02	275.9819
	R2401141-004 20X	Ba (230.424 nm)	0.0013	7.70	60.5087
	R2401141-004 20X	Be (313.107 nm)	0.0000 u	> 100.00	-198.2522
	R2401141-004 20X	Ca (317.933 nm)	22.7008	0.15	874714.3981
	R2401141-004 20X	Cd (214.439 nm)	0.0000 u	> 100.00	5.1213
	R2401141-004 20X	Co (230.786 nm)	0.0001 u	> 100.00	54.0478
	R2401141-004 20X	Cr (267.716 nm)	0.0000 u	> 100.00	-25.2984
	R2401141-004 20X	Cu (327.395 nm)	0.0002 u	> 100.00	-31.4581

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401141-004 20X	Fe (234.350 nm)	0.0041	4.06	260.8762
	R2401141-004 20X	K (766.491 nm)	0.3131	9.68	30.5522
	R2401141-004 20X	Mg (279.078 nm)	4.4806	0.03	13603.9537
	R2401141-004 20X	Mn (257.610 nm)	0.0007	3.33	219.2463
	R2401141-004 20X	Mo (202.032 nm)	0.0002 u	> 100.00	-5.6296
	R2401141-004 20X	Na (588.995 nm)	28.3545	0.07	301224.7755
	R2401141-004 20X	Ni (230.299 nm)	0.0005	41.19	80.2166
	R2401141-004 20X	Pb (220.353 nm)	-0.0001 u	> 100.00	10.3020
	R2401141-004 20X	Sb (217.582 nm)	0.0002 u	> 100.00	13.3153
	R2401141-004 20X	Se (196.026 nm)	-0.0007 u	> 100.00	-0.9092
	R2401141-004 20X	Sn (189.925 nm)	0.0007	98.55	9.2871
	R2401141-004 20X	Sr (216.596 nm)	0.0947	0.28	1786.7402
	R2401141-004 20X	Ti (336.122 nm)	0.0006	34.83	-99.0457
	R2401141-004 20X	Tl (190.794 nm)	-0.0001 u	> 100.00	1.1967
	R2401141-004 20X	V (292.401 nm)	0.0001 u	> 100.00	-50.7413
	R2401141-004 20X	Y (360.074 nm)	0.99	0.22	466726.46
	R2401141-004 20X	Y_R (360.074 nm)	0.99	0.22	465858.79
	R2401141-004 20X	Zn (213.857 nm)	0.0003	4.69	-31.1142
2/22/2024 16:26:32	R2401141-004L 100X	Ag (328.068 nm)	-0.0001 u	> 100.00	-265.9840
	R2401141-004L 100X	Al (237.312 nm)	0.0010 u	> 100.00	69.3260
	R2401141-004L 100X	As (188.980 nm)	0.0019 u	> 100.00	-11.6688
	R2401141-004L 100X	B (249.772 nm)	0.0016	9.09	91.6902
	R2401141-004L 100X	Ba (230.424 nm)	0.0004	12.14	13.0119
	R2401141-004L 100X	Be (313.107 nm)	0.0000	30.88	-199.5153
	R2401141-004L 100X	Ca (317.933 nm)	4.6278	1.06	180583.0578
	R2401141-004L 100X	Cd (214.439 nm)	0.0000 u	> 100.00	3.1196
	R2401141-004L 100X	Co (230.786 nm)	0.0000 u	> 100.00	53.1740
	R2401141-004L 100X	Cr (267.716 nm)	0.0002	66.59	-17.5123
	R2401141-004L 100X	Cu (327.395 nm)	-0.0001 u	> 100.00	-40.0088
	R2401141-004L 100X	Fe (234.350 nm)	0.0016	10.65	208.0449
	R2401141-004L 100X	K (766.491 nm)	0.0736	35.50	-206.9115
	R2401141-004L 100X	Mg (279.078 nm)	0.9097	0.94	2746.8023
	R2401141-004L 100X	Mn (257.610 nm)	0.0002	12.47	43.3451
	R2401141-004L 100X	Mo (202.032 nm)	0.0002	56.28	-5.5959
	R2401141-004L 100X	Na (588.995 nm)	5.6830	0.81	52050.8824
	R2401141-004L 100X	Ni (230.299 nm)	0.0009	37.95	84.5603
	R2401141-004L 100X	Pb (220.353 nm)	-0.0009 u	> 100.00	5.9962
	R2401141-004L 100X	Sb (217.582 nm)	0.0011	61.71	15.3062
	R2401141-004L 100X	Se (196.026 nm)	-0.0025 u	57.64	-2.3048
	R2401141-004L 100X	Sn (189.925 nm)	0.0000 u	> 100.00	7.0323
	R2401141-004L 100X	Sr (216.596 nm)	0.0195	0.69	329.6341
	R2401141-004L 100X	Ti (336.122 nm)	0.0004	58.96	-126.7574
	R2401141-004L 100X	Tl (190.794 nm)	0.0002 u	> 100.00	1.6603
	R2401141-004L 100X	V (292.401 nm)	0.0001 u	> 100.00	-51.5382
	R2401141-004L 100X	Y (360.074 nm)	1.01	0.25	474863.90
	R2401141-004L 100X	Y_R (360.074 nm)	1.01	0.26	474003.66
	R2401141-004L 100X	Zn (213.857 nm)	0.0002	33.48	-39.5675
2/22/2024 16:29:47	R2401141-006 5X	Ag (328.068 nm)	0.0000 u	> 100.00	-262.5135
	R2401141-006 5X	Al (237.312 nm)	0.0037	69.48	76.1741
	R2401141-006 5X	As (188.980 nm)	0.0035	12.46	-8.7766
	R2401141-006 5X	B (249.772 nm)	0.1343	0.25	4455.8480
	R2401141-006 5X	Ba (230.424 nm)	0.0069	1.81	331.3461
	R2401141-006 5X	Be (313.107 nm)	0.0000	59.78	-193.5897
	R2401141-006 5X	Ca (317.933 nm)	32.0097	0.08	1232241.5789
	R2401141-006 5X	Cd (214.439 nm)	0.0001 u	> 100.00	6.2153
	R2401141-006 5X	Co (230.786 nm)	0.0003	75.39	57.1838
	R2401141-006 5X	Cr (267.716 nm)	0.0002	35.70	-15.9711

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401141-006 5X	Cu (327.395 nm)	0.0003	96.73	-27.7780
	R2401141-006 5X	Fe (234.350 nm)	0.5028	0.14	10977.7405
	R2401141-006 5X	K (766.491 nm)	1.1289	2.82	839.4076
	R2401141-006 5X	Mg (279.078 nm)	17.6241	0.06	53566.7381
	R2401141-006 5X	Mn (257.610 nm)	0.0156	0.10	5092.4273
	R2401141-006 5X	Mo (202.032 nm)	0.0013	36.91	2.6704
	R2401141-006 5X	Na (588.995 nm)	30.5593	0.23	325457.6655
	R2401141-006 5X	Ni (230.299 nm)	0.0003	73.83	77.6440
	R2401141-006 5X	Pb (220.353 nm)	0.0001 u	> 100.00	11.0941
	R2401141-006 5X	Sb (217.582 nm)	-0.0004 u	> 100.00	11.7344
	R2401141-006 5X	Se (196.026 nm)	-0.0022 u	88.95	-2.0786
	R2401141-006 5X	Sn (189.925 nm)	-0.0003 u	> 100.00	6.2503
	R2401141-006 5X	Sr (216.596 nm)	0.8490	0.13	16392.9715
	R2401141-006 5X	Ti (336.122 nm)	0.0004	52.75	-125.8872
	R2401141-006 5X	Tl (190.794 nm)	-0.0003 u	> 100.00	1.0134
	R2401141-006 5X	V (292.401 nm)	-0.0001 u	64.57	-60.4269
	R2401141-006 5X	Y (360.074 nm)	0.98	0.27	463647.05
	R2401141-006 5X	Y_R (360.074 nm)	0.98	0.26	462800.86
	R2401141-006 5X	Zn (213.857 nm)	0.0011	1.45	10.8207
2/22/2024 16:33:01	R2401153-002 5X	Ag (328.068 nm)	0.0001	29.35	-255.1996
	R2401153-002 5X	Al (237.312 nm)	-0.0003 u	> 100.00	66.2353
	R2401153-002 5X	As (188.980 nm)	0.0015	> 100.00	-12.3459
	R2401153-002 5X	B (249.772 nm)	0.0092	1.08	343.2842
	R2401153-002 5X	Ba (230.424 nm)	0.0168	0.16	808.6812
	R2401153-002 5X	Be (313.107 nm)	0.0000	3.50	-204.6211
	R2401153-002 5X	Ca (317.933 nm)	30.1668	0.08	1161460.3164
	R2401153-002 5X	Cd (214.439 nm)	0.0000 u	> 100.00	2.7365
	R2401153-002 5X	Co (230.786 nm)	0.0002 u	> 100.00	55.9173
	R2401153-002 5X	Cr (267.716 nm)	0.0001	72.48	-19.0744
	R2401153-002 5X	Cu (327.395 nm)	0.0001 u	> 100.00	-34.7365
	R2401153-002 5X	Fe (234.350 nm)	0.0045	9.53	269.9680
	R2401153-002 5X	K (766.491 nm)	1.3759	3.69	1084.2725
	R2401153-002 5X	Mg (279.078 nm)	5.2519	0.08	15949.1774
	R2401153-002 5X	Mn (257.610 nm)	0.0112	0.15	3635.6756
	R2401153-002 5X	Mo (202.032 nm)	0.0008	62.19	-0.8362
	R2401153-002 5X	Na (588.995 nm)	15.7074	0.24	162225.0826
	R2401153-002 5X	Ni (230.299 nm)	0.0004	> 100.00	79.0592
	R2401153-002 5X	Pb (220.353 nm)	0.0000 u	> 100.00	10.7430
	R2401153-002 5X	Sb (217.582 nm)	-0.0011 u	66.20	10.2436
	R2401153-002 5X	Se (196.026 nm)	-0.0008 u	> 100.00	-0.9831
	R2401153-002 5X	Sn (189.925 nm)	0.0004 u	> 100.00	8.2373
	R2401153-002 5X	Sr (216.596 nm)	0.3186	0.08	6121.3970
	R2401153-002 5X	Ti (336.122 nm)	0.0003	79.46	-139.1490
	R2401153-002 5X	Tl (190.794 nm)	0.0002 u	> 100.00	1.6878
	R2401153-002 5X	V (292.401 nm)	-0.0001 u	> 100.00	-60.2330
	R2401153-002 5X	Y (360.074 nm)	0.99	0.42	466979.85
	R2401153-002 5X	Y_R (360.074 nm)	0.99	0.41	466111.71
	R2401153-002 5X	Zn (213.857 nm)	0.0006	10.42	-17.5375
2/22/2024 16:36:15	R2401153-002L 25X	Ag (328.068 nm)	0.0000 u	> 100.00	-262.7867
	R2401153-002L 25X	Al (237.312 nm)	-0.0001 u	> 100.00	66.7126
	R2401153-002L 25X	As (188.980 nm)	-0.0004 u	> 100.00	-15.6928
	R2401153-002L 25X	B (249.772 nm)	0.0020	9.39	104.4546
	R2401153-002L 25X	Ba (230.424 nm)	0.0034	0.79	160.8242
	R2401153-002L 25X	Be (313.107 nm)	0.0000	61.45	-199.9270
	R2401153-002L 25X	Ca (317.933 nm)	6.2078	0.09	241268.1582
	R2401153-002L 25X	Cd (214.439 nm)	0.0000	> 100.00	3.6651
	R2401153-002L 25X	Co (230.786 nm)	0.0002	58.35	55.7192

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401153-002L 25X	Cr (267.716 nm)	0.0000 u	> 100.00	-23.3813
	R2401153-002L 25X	Cu (327.395 nm)	0.0002 u	> 100.00	-32.4395
	R2401153-002L 25X	Fe (234.350 nm)	0.0014	12.23	203.6642
	R2401153-002L 25X	K (766.491 nm)	0.2841	9.91	1.8366
	R2401153-002L 25X	Mg (279.078 nm)	1.0754	0.16	3250.4406
	R2401153-002L 25X	Mn (257.610 nm)	0.0023	0.76	749.4139
	R2401153-002L 25X	Mo (202.032 nm)	0.0001 u	> 100.00	-6.6858
	R2401153-002L 25X	Na (588.995 nm)	3.1612	0.25	24334.3716
	R2401153-002L 25X	Ni (230.299 nm)	0.0002	71.33	77.2583
	R2401153-002L 25X	Pb (220.353 nm)	-0.0002 u	> 100.00	9.8821
	R2401153-002L 25X	Sb (217.582 nm)	0.0007 u	> 100.00	14.4915
	R2401153-002L 25X	Se (196.026 nm)	-0.0005 u	> 100.00	-0.7269
	R2401153-002L 25X	Sn (189.925 nm)	0.0008	52.44	9.4430
	R2401153-002L 25X	Sr (216.596 nm)	0.0658	0.46	1226.6863
	R2401153-002L 25X	Ti (336.122 nm)	0.0002	44.99	-158.9331
	R2401153-002L 25X	Tl (190.794 nm)	-0.0005 u	81.11	0.7815
	R2401153-002L 25X	V (292.401 nm)	0.0002	92.11	-50.6464
	R2401153-002L 25X	Y (360.074 nm)	1.01	0.30	474466.59
	R2401153-002L 25X	Y_R (360.074 nm)	1.01	0.30	473535.21
	R2401153-002L 25X	Zn (213.857 nm)	0.0003	25.49	-35.2275
2/22/2024 16:39:29	Continuing Calibration Verification	Ag (328.068 nm)	0.5174	0.18	30052.1542
	Continuing Calibration Verification	Al (237.312 nm)	10.0396	0.22	24872.5503
	Continuing Calibration Verification	As (188.980 nm)	0.9833	0.40	1722.7795
	Continuing Calibration Verification	B (249.772 nm)	2.4295	0.11	79961.0443
	Continuing Calibration Verification	Ba (230.424 nm)	10.2682	0.08	497226.0438
	Continuing Calibration Verification	Be (313.107 nm)	0.2416	0.10	264025.8938
	Continuing Calibration Verification	Ca (317.933 nm)	25.6477	0.12	987893.9718
	Continuing Calibration Verification	Cd (214.439 nm)	0.5111	0.15	32864.2414
	Continuing Calibration Verification	Co (230.786 nm)	2.5414	0.33	39653.7678
	Continuing Calibration Verification	Cr (267.716 nm)	0.5147	0.12	22323.7656
	Continuing Calibration Verification	Cu (327.395 nm)	1.2407	0.07	43890.6347
	Continuing Calibration Verification	Fe (234.350 nm)	5.0251	0.09	108160.7558
	Continuing Calibration Verification	K (766.491 nm)	24.1494	0.25	23662.6869
	Continuing Calibration Verification	Mg (279.078 nm)	25.1953	0.18	76587.2298
	Continuing Calibration Verification	Mn (257.610 nm)	0.7458	0.13	243172.4032
	Continuing Calibration Verification	Mo (202.032 nm)	2.5381	0.63	20249.9819
	Continuing Calibration Verification	Na (588.995 nm)	25.0591	0.45	265005.9429
	Continuing Calibration Verification	Ni (230.299 nm)	2.0961	0.13	25303.7836
	Continuing Calibration Verification	Pb (220.353 nm)	0.5106	0.08	2795.4733
	Continuing Calibration Verification	Sb (217.582 nm)	4.9376	0.24	11743.2687
	Continuing Calibration Verification	Se (196.026 nm)	0.4869	0.20	373.7890
	Continuing Calibration Verification	Sn (189.925 nm)	5.0656	0.20	14880.9893
	Continuing Calibration Verification	Sr (216.596 nm)	2.5047	0.06	48456.2240
	Continuing Calibration Verification	Ti (336.122 nm)	2.5126	0.03	316135.8710
	Continuing Calibration Verification	Tl (190.794 nm)	1.0377	0.17	1305.8948
	Continuing Calibration Verification	V (292.401 nm)	2.5125	0.08	98467.2946
	Continuing Calibration Verification	Y (360.074 nm)	0.97	0.49	454453.40
	Continuing Calibration Verification	Y_R (360.074 nm)	0.97	0.49	453554.49
	Continuing Calibration Verification	Zn (213.857 nm)	0.9925	0.14	54875.5431
2/22/2024 16:42:43	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u	> 100.00	-261.7233
	Continuing Calibration Blank	Al (237.312 nm)	0.0009 u	> 100.00	69.0348
	Continuing Calibration Blank	As (188.980 nm)	0.0034	22.64	-8.9266
	Continuing Calibration Blank	B (249.772 nm)	0.0015	15.89	87.0463
	Continuing Calibration Blank	Ba (230.424 nm)	0.0002	25.77	5.7009
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	53.64	-198.7166
	Continuing Calibration Blank	Ca (317.933 nm)	0.0009	14.50	2877.4077
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	86.26	1.2715

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Co (230.786 nm)	0.0004	91.65	58.7817
	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u	> 100.00	-24.3153
	Continuing Calibration Blank	Cu (327.395 nm)	-0.0001 u	> 100.00	-43.0621
	Continuing Calibration Blank	Fe (234.350 nm)	0.0036	19.76	251.6074
	Continuing Calibration Blank	K (766.491 nm)	0.0072 u	> 100.00	-272.7204
	Continuing Calibration Blank	Mg (279.078 nm)	-0.0003 u	> 100.00	-20.1795
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000 u	> 100.00	-7.9038
	Continuing Calibration Blank	Mo (202.032 nm)	0.0066	7.02	44.9126
	Continuing Calibration Blank	Na (588.995 nm)	0.0133	20.43	-10263.1939
	Continuing Calibration Blank	Ni (230.299 nm)	0.0004	76.36	79.5869
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0001 u	> 100.00	10.0491
	Continuing Calibration Blank	Sb (217.582 nm)	0.0078	18.18	31.3117
	Continuing Calibration Blank	Se (196.026 nm)	-0.0004 u	> 100.00	-0.7104
	Continuing Calibration Blank	Sn (189.925 nm)	0.0018	23.59	12.3847
	Continuing Calibration Blank	Sr (216.596 nm)	0.0002	> 100.00	-44.7747
	Continuing Calibration Blank	Ti (336.122 nm)	0.0060	28.59	576.7952
	Continuing Calibration Blank	Tl (190.794 nm)	-0.0006 u	70.58	0.6655
	Continuing Calibration Blank	V (292.401 nm)	-0.0001 u	> 100.00	-60.1153
	Continuing Calibration Blank	Y (360.074 nm)	1.01	0.47	474936.68
	Continuing Calibration Blank	Y_R (360.074 nm)	1.01	0.47	474066.03
	Continuing Calibration Blank	Zn (213.857 nm)	0.0002	28.88	-37.9943
2/22/2024 16:45:56	PBW-434252	Ag (328.068 nm)	-0.0001 u	> 100.00	-269.6117
	PBW-434252	Al (237.312 nm)	-0.0004 u	> 100.00	65.8441
	PBW-434252	As (188.980 nm)	0.0005	> 100.00	-14.0393
	PBW-434252	B (249.772 nm)	0.0008	11.44	64.2128
	PBW-434252	Ba (230.424 nm)	0.0001	40.63	0.6449
	PBW-434252	Be (313.107 nm)	0.0000	25.22	-200.4178
	PBW-434252	Ca (317.933 nm)	0.0055	3.45	3056.2552
	PBW-434252	Cd (214.439 nm)	0.0001	75.11	6.2720
	PBW-434252	Co (230.786 nm)	-0.0002 u	72.78	49.2503
	PBW-434252	Cr (267.716 nm)	0.0001	93.21	-20.0925
	PBW-434252	Cu (327.395 nm)	0.0001 u	> 100.00	-35.4698
	PBW-434252	Fe (234.350 nm)	0.0032	8.99	241.7895
	PBW-434252	K (766.491 nm)	-0.0321 u	> 100.00	-311.7433
	PBW-434252	Mg (279.078 nm)	0.0007	82.02	-17.0775
	PBW-434252	Mn (257.610 nm)	0.0000	31.16	6.2926
	PBW-434252	Mo (202.032 nm)	0.0012	18.86	2.3423
	PBW-434252	Na (588.995 nm)	0.0155	50.61	-10238.7329
	PBW-434252	Ni (230.299 nm)	0.0000 u	> 100.00	73.8466
	PBW-434252	Pb (220.353 nm)	0.0001 u	> 100.00	11.2431
	PBW-434252	Sb (217.582 nm)	0.0058	19.65	26.5097
	PBW-434252	Se (196.026 nm)	0.0016 u	> 100.00	0.8295
	PBW-434252	Sn (189.925 nm)	0.0005	45.57	8.6619
	PBW-434252	Sr (216.596 nm)	0.0000 u	> 100.00	-48.3159
	PBW-434252	Ti (336.122 nm)	0.0016	51.35	24.6842
	PBW-434252	Tl (190.794 nm)	0.0003	49.34	1.7764
	PBW-434252	V (292.401 nm)	-0.0002 u	> 100.00	-62.7282
	PBW-434252	Y (360.074 nm)	1.02	0.41	479766.78
	PBW-434252	Y_R (360.074 nm)	1.02	0.41	478912.94
	PBW-434252	Zn (213.857 nm)	0.0024	2.70	84.8538
2/22/2024 16:49:10	FBLK-434252	Ag (328.068 nm)	0.0001 u	> 100.00	-258.2193
	FBLK-434252	Al (237.312 nm)	0.0003 u	> 100.00	67.7601
	FBLK-434252	As (188.980 nm)	0.0008 u	> 100.00	-13.5739
	FBLK-434252	B (249.772 nm)	0.0005	22.39	56.9906
	FBLK-434252	Ba (230.424 nm)	0.0000 u	> 100.00	-3.0310
	FBLK-434252	Be (313.107 nm)	0.0000	52.73	-193.4633
	FBLK-434252	Ca (317.933 nm)	0.0103	1.33	3238.3438

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	FBLK-434252	Cd (214.439 nm)	0.0001	61.18	10.4179
	FBLK-434252	Co (230.786 nm)	0.0002 u	> 100.00	55.9302
	FBLK-434252	Cr (267.716 nm)	0.0001 u	> 100.00	-21.9442
	FBLK-434252	Cu (327.395 nm)	0.0008	30.16	-9.6151
	FBLK-434252	Fe (234.350 nm)	0.0055	5.89	290.8034
	FBLK-434252	K (766.491 nm)	-0.0148 u	> 100.00	-294.5306
	FBLK-434252	Mg (279.078 nm)	0.0034	6.54	-8.8549
	FBLK-434252	Mn (257.610 nm)	0.0001	16.60	17.8941
	FBLK-434252	Mo (202.032 nm)	0.0008	46.82	-1.0095
	FBLK-434252	Na (588.995 nm)	0.0633	1.10	-9713.8296
	FBLK-434252	Ni (230.299 nm)	0.0003 u	> 100.00	77.9053
	FBLK-434252	Pb (220.353 nm)	0.0002 u	> 100.00	11.7016
	FBLK-434252	Sb (217.582 nm)	0.0061	36.66	27.2311
	FBLK-434252	Se (196.026 nm)	-0.0005 u	> 100.00	-0.7686
	FBLK-434252	Sn (189.925 nm)	-0.0001 u	> 100.00	6.9050
	FBLK-434252	Sr (216.596 nm)	0.0003	76.50	-42.9781
	FBLK-434252	Ti (336.122 nm)	0.0006	67.53	-99.6979
	FBLK-434252	Tl (190.794 nm)	-0.0006 u	80.70	0.6638
	FBLK-434252	V (292.401 nm)	0.0001	53.96	-53.4959
	FBLK-434252	Y (360.074 nm)	1.02	0.30	480359.21
	FBLK-434252	Y_R (360.074 nm)	1.02	0.30	479440.71
	FBLK-434252	Zn (213.857 nm)	0.0021	4.24	65.0222
2/22/2024 16:52:24	LCSW-434252	Ag (328.068 nm)	0.0511	0.23	2733.5373
	LCSW-434252	Al (237.312 nm)	1.9458	0.04	4874.5912
	LCSW-434252	As (188.980 nm)	0.0402	3.08	56.1178
	LCSW-434252	B (249.772 nm)	0.9696	0.07	31937.3571
	LCSW-434252	Ba (230.424 nm)	2.0311	0.37	98349.0552
	LCSW-434252	Be (313.107 nm)	0.0480	0.17	52277.3284
	LCSW-434252	Ca (317.933 nm)	2.0079	0.13	79959.7562
	LCSW-434252	Cd (214.439 nm)	0.0515	0.32	3313.5478
	LCSW-434252	Co (230.786 nm)	0.5130	0.06	8045.9295
	LCSW-434252	Cr (267.716 nm)	0.2009	0.10	8701.1871
	LCSW-434252	Cu (327.395 nm)	0.2496	0.29	8798.8073
	LCSW-434252	Fe (234.350 nm)	0.9904	0.21	21456.2205
	LCSW-434252	K (766.491 nm)	18.6761	0.17	18236.3120
	LCSW-434252	Mg (279.078 nm)	1.9546	0.13	5923.8463
	LCSW-434252	Mn (257.610 nm)	0.4904	0.09	159885.5217
	LCSW-434252	Mo (202.032 nm)	0.4807	0.78	3829.2596
	LCSW-434252	Na (588.995 nm)	19.4048	0.27	202861.8282
	LCSW-434252	Ni (230.299 nm)	0.5266	0.35	6413.2970
	LCSW-434252	Pb (220.353 nm)	0.5101	0.26	2792.7499
	LCSW-434252	Sb (217.582 nm)	0.4923	1.25	1182.3482
	LCSW-434252	Se (196.026 nm)	0.9965	0.18	765.4832
	LCSW-434252	Sn (189.925 nm)	4.9612	0.22	14574.5137
	LCSW-434252	Sr (216.596 nm)	2.0085	0.26	38847.2891
	LCSW-434252	Ti (336.122 nm)	0.4885	0.09	61318.0869
	LCSW-434252	Tl (190.794 nm)	1.9810	0.19	2491.5911
	LCSW-434252	V (292.401 nm)	0.4890	0.20	19118.7423
	LCSW-434252	Y (360.074 nm)	1.00	0.35	469120.59
	LCSW-434252	Y_R (360.074 nm)	1.00	0.34	468202.66
	LCSW-434252	Zn (213.857 nm)	0.5105	0.14	28204.1792
2/22/2024 16:55:37	R2401218-002 10X	Ag (328.068 nm)	0.0000 u	> 100.00	-263.8588
	R2401218-002 10X	Al (237.312 nm)	0.0348	2.75	152.7898
	R2401218-002 10X	As (188.980 nm)	0.0009 u	> 100.00	-13.4544
	R2401218-002 10X	B (249.772 nm)	0.4479	0.07	14775.0884
	R2401218-002 10X	Ba (230.424 nm)	0.0247	0.23	1192.8838
	R2401218-002 10X	Be (313.107 nm)	0.0000 u	> 100.00	-203.3479

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401218-002 10X	Ca (317.933 nm)	16.1798	0.18	624261.3414
	R2401218-002 10X	Cd (214.439 nm)	0.0000	88.87	6.1338
	R2401218-002 10X	Co (230.786 nm)	0.0015	23.02	75.8951
	R2401218-002 10X	Cr (267.716 nm)	0.0074	0.92	296.6609
	R2401218-002 10X	Cu (327.395 nm)	0.0421	0.67	1450.6961
	R2401218-002 10X	Fe (234.350 nm)	1.3040	0.17	28195.3953
	R2401218-002 10X	K (766.491 nm)	19.8457	0.04	19395.9217
	R2401218-002 10X	Mg (279.078 nm)	5.2247	0.14	15866.5085
	R2401218-002 10X	Mn (257.610 nm)	0.3418	0.09	111445.4238
	R2401218-002 10X	Mo (202.032 nm)	0.0035	6.90	20.6210
	R2401218-002 10X	Na (588.995 nm)	55.8777 o	0.27	603722.6725
	R2401218-002 10X	Ni (230.299 nm)	0.0075	9.70	164.8230
	R2401218-002 10X	Pb (220.353 nm)	0.0030	13.88	27.2540
	R2401218-002 10X	Sb (217.582 nm)	0.0040	26.61	22.2869
	R2401218-002 10X	Se (196.026 nm)	0.0032	14.67	2.0544
	R2401218-002 10X	Sn (189.925 nm)	0.0042	25.26	19.6207
	R2401218-002 10X	Sr (216.596 nm)	0.0658	0.19	1225.8446
	R2401218-002 10X	Ti (336.122 nm)	0.0040	15.40	328.0503
	R2401218-002 10X	Tl (190.794 nm)	0.0012 u	> 100.00	2.8713
	R2401218-002 10X	V (292.401 nm)	0.0011	6.88	-14.3913
	R2401218-002 10X	Y (360.074 nm)	0.98	0.30	462212.99
	R2401218-002 10X	Y_R (360.074 nm)	0.98	0.30	461225.66
	R2401218-002 10X	Zn (213.857 nm)	0.0244	0.70	1299.9456
2/22/2024 16:58:51	R2401218-003 10X	Ag (328.068 nm)	0.0000 u	> 100.00	-260.6672
	R2401218-003 10X	Al (237.312 nm)	0.0146	19.89	102.9478
	R2401218-003 10X	As (188.980 nm)	0.0031	34.44	-9.5804
	R2401218-003 10X	B (249.772 nm)	0.4672	0.29	15409.9182
	R2401218-003 10X	Ba (230.424 nm)	0.0296	0.80	1429.1605
	R2401218-003 10X	Be (313.107 nm)	0.0000 u	> 100.00	-201.7406
	R2401218-003 10X	Ca (317.933 nm)	24.9418	0.40	960783.2643
	R2401218-003 10X	Cd (214.439 nm)	0.0001	64.97	7.2050
	R2401218-003 10X	Co (230.786 nm)	0.0015	28.12	75.6780
	R2401218-003 10X	Cr (267.716 nm)	0.0045	3.70	169.9071
	R2401218-003 10X	Cu (327.395 nm)	0.0063	2.52	183.9663
	R2401218-003 10X	Fe (234.350 nm)	0.5410	0.56	11800.1119
	R2401218-003 10X	K (766.491 nm)	16.8880	0.16	16463.4911
	R2401218-003 10X	Mg (279.078 nm)	6.0398	0.31	18344.8721
	R2401218-003 10X	Mn (257.610 nm)	0.4361	0.35	142177.3906
	R2401218-003 10X	Mo (202.032 nm)	0.0006	58.71	-2.2334
	R2401218-003 10X	Na (588.995 nm)	49.1047	0.11	529282.9347
	R2401218-003 10X	Ni (230.299 nm)	0.0072	4.97	160.9201
	R2401218-003 10X	Pb (220.353 nm)	0.0003 u	> 100.00	12.3373
	R2401218-003 10X	Sb (217.582 nm)	0.0015 u	> 100.00	16.2640
	R2401218-003 10X	Se (196.026 nm)	0.0000 u	> 100.00	-0.3987
	R2401218-003 10X	Sn (189.925 nm)	0.0018	39.96	12.4205
	R2401218-003 10X	Sr (216.596 nm)	0.1475	0.61	2808.1119
	R2401218-003 10X	Ti (336.122 nm)	0.0019	17.76	54.9645
	R2401218-003 10X	Tl (190.794 nm)	-0.0001 u	> 100.00	1.2209
	R2401218-003 10X	V (292.401 nm)	0.0006	33.11	-32.3106
	R2401218-003 10X	Y (360.074 nm)	0.98	0.27	462385.06
	R2401218-003 10X	Y_R (360.074 nm)	0.98	0.27	461408.70
	R2401218-003 10X	Zn (213.857 nm)	0.0137	0.45	706.1938
2/22/2024 17:02:05	R2401218-003L 50X	Ag (328.068 nm)	-0.0001 u	> 100.00	-265.8811
	R2401218-003L 50X	Al (237.312 nm)	0.0028	68.87	73.7844
	R2401218-003L 50X	As (188.980 nm)	0.0007 u	> 100.00	-13.6977
	R2401218-003L 50X	B (249.772 nm)	0.0927	0.23	3090.1216
	R2401218-003L 50X	Ba (230.424 nm)	0.0060	1.21	288.5334

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401218-003L 50X	Be (313.107 nm)	0.0000 u	> 100.00	-204.6296
	R2401218-003L 50X	Ca (317.933 nm)	5.1012	0.07	198766.3537
	R2401218-003L 50X	Cd (214.439 nm)	0.0000 u	> 100.00	3.4709
	R2401218-003L 50X	Co (230.786 nm)	0.0004	60.29	58.5881
	R2401218-003L 50X	Cr (267.716 nm)	0.0009	14.71	16.0166
	R2401218-003L 50X	Cu (327.395 nm)	0.0012	15.71	4.5475
	R2401218-003L 50X	Fe (234.350 nm)	0.1117	0.53	2574.7711
	R2401218-003L 50X	K (766.491 nm)	3.3304	1.37	3022.0201
	R2401218-003L 50X	Mg (279.078 nm)	1.2280	0.16	3714.5912
	R2401218-003L 50X	Mn (257.610 nm)	0.0899	0.05	29311.6621
	R2401218-003L 50X	Mo (202.032 nm)	0.0005	47.20	-3.1074
	R2401218-003L 50X	Na (588.995 nm)	10.0484	0.30	100029.2603
	R2401218-003L 50X	Ni (230.299 nm)	0.0016	14.06	93.1502
	R2401218-003L 50X	Pb (220.353 nm)	-0.0002 u	> 100.00	9.7378
	R2401218-003L 50X	Sb (217.582 nm)	0.0009 u	> 100.00	14.8124
	R2401218-003L 50X	Se (196.026 nm)	0.0016 u	87.36	0.8817
	R2401218-003L 50X	Sn (189.925 nm)	0.0011	59.26	10.3886
	R2401218-003L 50X	Sr (216.596 nm)	0.0298	1.03	528.5257
	R2401218-003L 50X	Ti (336.122 nm)	0.0008	39.63	-84.5372
	R2401218-003L 50X	Tl (190.794 nm)	0.0008 u	> 100.00	2.3929
	R2401218-003L 50X	V (292.401 nm)	0.0001	> 100.00	-51.1714
	R2401218-003L 50X	Y (360.074 nm)	1.01	0.33	473164.63
	R2401218-003L 50X	Y_R (360.074 nm)	1.00	0.33	472165.73
	R2401218-003L 50X	Zn (213.857 nm)	0.0029	2.25	109.0498
2/22/2024 17:05:19	R2401217-010 10X	Ag (328.068 nm)	0.0009	3.63	-207.0077
	R2401217-010 10X	Al (237.312 nm)	-0.0132 u	15.13	34.3301
	R2401217-010 10X	As (188.980 nm)	0.0053	7.63	-5.5503
	R2401217-010 10X	B (249.772 nm)	-0.0008 u	8.94	14.0340
	R2401217-010 10X	Ba (230.424 nm)	0.0001	29.63	-1.7071
	R2401217-010 10X	Be (313.107 nm)	0.0001	2.30	-46.5122
	R2401217-010 10X	Ca (317.933 nm)	-0.0063 u	2.24	2603.1771
	R2401217-010 10X	Cd (214.439 nm)	0.0001	48.16	6.8314
	R2401217-010 10X	Co (230.786 nm)	-0.0018 u	8.37	24.9222
	R2401217-010 10X	Cr (267.716 nm)	0.0011	12.17	24.1871
	R2401217-010 10X	Cu (327.395 nm)	0.0010	12.42	-1.7742
	R2401217-010 10X	Fe (234.350 nm)	-0.0013 u	19.48	145.9190
	R2401217-010 10X	K (766.491 nm)	0.1407	14.13	-140.3441
	R2401217-010 10X	Mg (279.078 nm)	0.0036	10.82	-8.3186
	R2401217-010 10X	Mn (257.610 nm)	0.0000	20.44	6.7748
	R2401217-010 10X	Mo (202.032 nm)	0.0007	11.57	-2.0230
	R2401217-010 10X	Na (588.995 nm)	0.4890	0.70	-5034.4333
	R2401217-010 10X	Ni (230.299 nm)	-0.0029 u	3.75	38.8731
	R2401217-010 10X	Pb (220.353 nm)	-0.0012 u	15.00	4.4238
	R2401217-010 10X	Sb (217.582 nm)	-0.0020 u	34.09	7.9304
	R2401217-010 10X	Se (196.026 nm)	0.0012	23.88	0.5213
	R2401217-010 10X	Sn (189.925 nm)	-0.0014 u	18.61	3.0209
	R2401217-010 10X	Sr (216.596 nm)	0.0014	4.27	-21.3499
	R2401217-010 10X	Ti (336.122 nm)	0.0006	17.56	-98.0166
	R2401217-010 10X	Tl (190.794 nm)	-0.0006 u	29.30	0.5683
	R2401217-010 10X	V (292.401 nm)	0.0008	4.18	-24.6203
	R2401217-010 10X	Y (360.074 nm)	2.57	0.47	1210955.04
	R2401217-010 10X	Y_R (360.074 nm)	2.57	0.47	1208874.95
	R2401217-010 10X	Zn (213.857 nm)	0.0003	11.94	-33.6383
2/22/2024 17:08:33	Continuing Calibration Verification	Ag (328.068 nm)	0.5186	0.12	30119.7775
	Continuing Calibration Verification	Al (237.312 nm)	10.1105	0.17	25047.5560
	Continuing Calibration Verification	As (188.980 nm)	0.9867	0.37	1728.8231
	Continuing Calibration Verification	B (249.772 nm)	2.4342	0.13	80115.4992

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	Ba (230.424 nm)	10.3096	0.34	499233.1508
	Continuing Calibration Verification	Be (313.107 nm)	0.2421	0.13	264523.1297
	Continuing Calibration Verification	Ca (317.933 nm)	25.6999	0.15	989898.6547
	Continuing Calibration Verification	Cd (214.439 nm)	0.5120	0.17	32919.2524
	Continuing Calibration Verification	Co (230.786 nm)	2.5558	0.28	39877.7767
	Continuing Calibration Verification	Cr (267.716 nm)	0.5161	0.12	22384.5750
	Continuing Calibration Verification	Cu (327.395 nm)	1.2379	0.29	43790.9262
	Continuing Calibration Verification	Fe (234.350 nm)	5.0458	0.18	108605.0703
	Continuing Calibration Verification	K (766.491 nm)	24.3044	0.29	23816.3879
	Continuing Calibration Verification	Mg (279.078 nm)	25.2475	0.18	76745.6891
	Continuing Calibration Verification	Mn (257.610 nm)	0.7481	0.15	243918.5912
	Continuing Calibration Verification	Mo (202.032 nm)	2.5486	0.57	20333.4543
	Continuing Calibration Verification	Na (588.995 nm)	25.1979	0.32	266531.9610
	Continuing Calibration Verification	Ni (230.299 nm)	2.1035	0.13	25393.2815
	Continuing Calibration Verification	Pb (220.353 nm)	0.5142	0.16	2814.9573
	Continuing Calibration Verification	Sb (217.582 nm)	4.9671	0.19	11813.4002
	Continuing Calibration Verification	Se (196.026 nm)	0.4882	1.00	374.8145
	Continuing Calibration Verification	Sn (189.925 nm)	5.0784	0.05	14918.6876
	Continuing Calibration Verification	Sr (216.596 nm)	2.5129	0.35	48616.0097
	Continuing Calibration Verification	Ti (336.122 nm)	2.5235	0.04	317513.6288
	Continuing Calibration Verification	Tl (190.794 nm)	1.0360	0.20	1303.7303
	Continuing Calibration Verification	V (292.401 nm)	2.5196	0.15	98747.8831
	Continuing Calibration Verification	Y (360.074 nm)	0.97	0.59	454604.04
	Continuing Calibration Verification	Y_R (360.074 nm)	0.97	0.58	453595.52
	Continuing Calibration Verification	Zn (213.857 nm)	0.9921	0.30	54854.7702
2/22/2024 17:11:47	Continuing Calibration Blank	Ag (328.068 nm)	-0.0001 u	> 100.00	-270.5868
	Continuing Calibration Blank	Al (237.312 nm)	-0.0003 u	> 100.00	66.2799
	Continuing Calibration Blank	As (188.980 nm)	0.0034	48.31	-9.0168
	Continuing Calibration Blank	B (249.772 nm)	0.0015	16.51	88.9610
	Continuing Calibration Blank	Ba (230.424 nm)	0.0003	28.81	8.7636
	Continuing Calibration Blank	Be (313.107 nm)	0.0000 u	> 100.00	-207.1694
	Continuing Calibration Blank	Ca (317.933 nm)	0.0014	20.41	2895.6547
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	2.8466
	Continuing Calibration Blank	Co (230.786 nm)	0.0001 u	> 100.00	53.8015
	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u	> 100.00	-25.5268
	Continuing Calibration Blank	Cu (327.395 nm)	-0.0002 u	> 100.00	-45.5239
	Continuing Calibration Blank	Fe (234.350 nm)	0.0033	15.72	245.2817
	Continuing Calibration Blank	K (766.491 nm)	0.0280	74.90	-252.0806
	Continuing Calibration Blank	Mg (279.078 nm)	-0.0003 u	> 100.00	-20.1299
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000	75.76	-0.2447
	Continuing Calibration Blank	Mo (202.032 nm)	0.0059	13.57	39.6250
	Continuing Calibration Blank	Na (588.995 nm)	0.0224	11.01	-10163.3339
	Continuing Calibration Blank	Ni (230.299 nm)	0.0004	41.43	78.8800
	Continuing Calibration Blank	Pb (220.353 nm)	0.0007	43.20	14.8337
	Continuing Calibration Blank	Sb (217.582 nm)	0.0096	4.29	35.5114
	Continuing Calibration Blank	Se (196.026 nm)	-0.0020 u	33.04	-1.9488
	Continuing Calibration Blank	Sn (189.925 nm)	0.0016	44.64	12.0106
	Continuing Calibration Blank	Sr (216.596 nm)	0.0003	83.63	-42.5456
	Continuing Calibration Blank	Ti (336.122 nm)	0.0059	25.31	569.7364
	Continuing Calibration Blank	Tl (190.794 nm)	-0.0005 u	> 100.00	0.7110
	Continuing Calibration Blank	V (292.401 nm)	0.0001	70.59	-52.4114
	Continuing Calibration Blank	Y (360.074 nm)	1.01	0.28	475361.16
	Continuing Calibration Blank	Y_R (360.074 nm)	1.01	0.28	474305.32
	Continuing Calibration Blank	Zn (213.857 nm)	0.0002	39.91	-41.3691
2/22/2024 17:15:01	PBW-434254	Ag (328.068 nm)	0.0000 u	> 100.00	-264.5396
	PBW-434254	Al (237.312 nm)	-0.0011 u	> 100.00	64.1153
	PBW-434254	As (188.980 nm)	0.0024	58.56	-10.7866

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	PBW-434254	B (249.772 nm)	0.0014	3.91	86.4529
	PBW-434254	Ba (230.424 nm)	0.0001	70.36	0.1688
	PBW-434254	Be (313.107 nm)	0.0000	50.41	-196.5522
	PBW-434254	Ca (317.933 nm)	0.0028	5.38	2949.1074
	PBW-434254	Cd (214.439 nm)	0.0001	19.33	11.2687
	PBW-434254	Co (230.786 nm)	0.0001	19.40	54.4758
	PBW-434254	Cr (267.716 nm)	0.0002	1.50	-14.9221
	PBW-434254	Cu (327.395 nm)	0.0002	76.60	-30.4910
	PBW-434254	Fe (234.350 nm)	0.0018	19.32	211.5442
	PBW-434254	K (766.491 nm)	0.0105	> 100.00	-269.4338
	PBW-434254	Mg (279.078 nm)	-0.0001 u	> 100.00	-19.4781
	PBW-434254	Mn (257.610 nm)	0.0000 u	> 100.00	-5.7491
	PBW-434254	Mo (202.032 nm)	0.0010	34.30	0.2228
	PBW-434254	Na (588.995 nm)	0.0219	18.17	-10168.5334
	PBW-434254	Ni (230.299 nm)	-0.0005 u	40.29	68.0849
	PBW-434254	Pb (220.353 nm)	0.0004 u	> 100.00	13.0554
	PBW-434254	Sb (217.582 nm)	0.0069	17.37	29.2416
	PBW-434254	Se (196.026 nm)	-0.0006 u	> 100.00	-0.8307
	PBW-434254	Sn (189.925 nm)	0.0001 u	> 100.00	7.4183
	PBW-434254	Sr (216.596 nm)	0.0002	15.45	-44.2501
	PBW-434254	Ti (336.122 nm)	0.0018	44.14	48.9644
	PBW-434254	Tl (190.794 nm)	-0.0005 u	> 100.00	0.7660
	PBW-434254	V (292.401 nm)	0.0001	50.98	-51.5964
	PBW-434254	Y (360.074 nm)	1.02	0.47	482472.22
	PBW-434254	Y_R (360.074 nm)	1.02	0.48	481512.06
	PBW-434254	Zn (213.857 nm)	0.0007	4.03	-12.9495
2/22/2024 17:18:15	LCSW-434254	Ag (328.068 nm)	0.0507	0.18	2709.9680
	LCSW-434254	Al (237.312 nm)	1.9306	0.45	4836.9226
	LCSW-434254	As (188.980 nm)	0.0394	6.66	54.5990
	LCSW-434254	B (249.772 nm)	0.9704	0.12	31963.4313
	LCSW-434254	Ba (230.424 nm)	2.0257	0.30	98089.2038
	LCSW-434254	Be (313.107 nm)	0.0478	0.20	52046.6178
	LCSW-434254	Ca (317.933 nm)	1.9989	0.08	79613.4047
	LCSW-434254	Cd (214.439 nm)	0.0511	0.17	3290.9115
	LCSW-434254	Co (230.786 nm)	0.5115	0.14	8022.7466
	LCSW-434254	Cr (267.716 nm)	0.2002	0.18	8669.3060
	LCSW-434254	Cu (327.395 nm)	0.2484	0.25	8758.1267
	LCSW-434254	Fe (234.350 nm)	0.9863	0.09	21368.3689
	LCSW-434254	K (766.491 nm)	18.5605	0.06	18121.7060
	LCSW-434254	Mg (279.078 nm)	1.9445	0.22	5893.0762
	LCSW-434254	Mn (257.610 nm)	0.4884	0.15	159244.8115
	LCSW-434254	Mo (202.032 nm)	0.4793	0.58	3818.0111
	LCSW-434254	Na (588.995 nm)	19.3021	0.27	201732.9221
	LCSW-434254	Ni (230.299 nm)	0.5243	0.11	6385.2595
	LCSW-434254	Pb (220.353 nm)	0.5075	0.15	2778.1924
	LCSW-434254	Sb (217.582 nm)	0.4915	1.02	1180.4561
	LCSW-434254	Se (196.026 nm)	0.9855	0.61	757.0416
	LCSW-434254	Sn (189.925 nm)	4.9183	0.18	14448.5524
	LCSW-434254	Sr (216.596 nm)	1.9965	0.51	38614.5025
	LCSW-434254	Ti (336.122 nm)	0.4876	0.17	61210.0237
	LCSW-434254	Tl (190.794 nm)	1.9684	0.30	2475.7753
	LCSW-434254	V (292.401 nm)	0.4871	0.16	19044.6602
	LCSW-434254	Y (360.074 nm)	1.00	0.43	472443.88
	LCSW-434254	Y_R (360.074 nm)	1.00	0.43	471503.28
	LCSW-434254	Zn (213.857 nm)	0.5078	0.09	28051.6691
2/22/2024 17:21:29	R2401280-011 100X	Ag (328.068 nm)	0.0000 u	> 100.00	-262.6452
	R2401280-011 100X	Al (237.312 nm)	-0.0027 u	78.69	60.2770

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401280-011 100X	As (188.980 nm)	0.0013	14.00	-12.7476
	R2401280-011 100X	B (249.772 nm)	0.0014	12.95	86.2302
	R2401280-011 100X	Ba (230.424 nm)	0.0027	3.87	124.0260
	R2401280-011 100X	Be (313.107 nm)	0.0000 u	> 100.00	-207.1308
	R2401280-011 100X	Ca (317.933 nm)	0.7934	0.25	33315.6446
	R2401280-011 100X	Cd (214.439 nm)	0.0000 u	> 100.00	1.7188
	R2401280-011 100X	Co (230.786 nm)	0.0014	13.27	74.2255
	R2401280-011 100X	Cr (267.716 nm)	-0.0005 u	24.18	-44.7973
	R2401280-011 100X	Cu (327.395 nm)	-0.0001 u	> 100.00	-42.6001
	R2401280-011 100X	Fe (234.350 nm)	0.4441	0.11	9717.1346
	R2401280-011 100X	K (766.491 nm)	0.0120 u	> 100.00	-268.0210
	R2401280-011 100X	Mg (279.078 nm)	0.1821	1.72	534.4952
	R2401280-011 100X	Mn (257.610 nm)	1.1964	0.23	390093.5815
	R2401280-011 100X	Mo (202.032 nm)	0.0035	10.58	20.6252
	R2401280-011 100X	Na (588.995 nm)	0.0327	14.11	-10049.8989
	R2401280-011 100X	Ni (230.299 nm)	0.0010	42.68	86.5817
	R2401280-011 100X	Pb (220.353 nm)	0.0001 u	> 100.00	11.3612
	R2401280-011 100X	Sb (217.582 nm)	0.0062	40.05	27.5590
	R2401280-011 100X	Se (196.026 nm)	0.0012	60.90	0.5539
	R2401280-011 100X	Sn (189.925 nm)	0.0029	21.69	15.7296
	R2401280-011 100X	Sr (216.596 nm)	0.0017	1.64	-15.8813
	R2401280-011 100X	Ti (336.122 nm)	0.0021	31.96	90.9810
	R2401280-011 100X	Tl (190.794 nm)	0.0003 u	> 100.00	1.8145
	R2401280-011 100X	V (292.401 nm)	0.0000 u	> 100.00	-56.0267
	R2401280-011 100X	Y (360.074 nm)	1.02	0.35	479550.45
	R2401280-011 100X	Y_R (360.074 nm)	1.02	0.36	478636.78
	R2401280-011 100X	Zn (213.857 nm)	0.0005	2.23	-24.6155
2/22/2024 17:24:43	R2401280-017 20X	Ag (328.068 nm)	0.0001 u	> 100.00	-258.6149
	R2401280-017 20X	Al (237.312 nm)	-0.0004 u	70.10	65.9692
	R2401280-017 20X	As (188.980 nm)	0.0001 u	> 100.00	-14.8606
	R2401280-017 20X	B (249.772 nm)	0.0144	1.25	511.5960
	R2401280-017 20X	Ba (230.424 nm)	0.0194	0.34	933.0344
	R2401280-017 20X	Be (313.107 nm)	0.0000 u	> 100.00	-205.8046
	R2401280-017 20X	Ca (317.933 nm)	13.8387	0.11	534347.8839
	R2401280-017 20X	Cd (214.439 nm)	0.0000 u	> 100.00	3.8832
	R2401280-017 20X	Co (230.786 nm)	0.0004	15.41	58.5165
	R2401280-017 20X	Cr (267.716 nm)	-0.0002 u	> 100.00	-31.6184
	R2401280-017 20X	Cu (327.395 nm)	0.0002 u	> 100.00	-30.8014
	R2401280-017 20X	Fe (234.350 nm)	1.5356	0.04	33173.5351
	R2401280-017 20X	K (766.491 nm)	0.0820	24.43	-198.5758
	R2401280-017 20X	Mg (279.078 nm)	2.3161	0.14	7022.8016
	R2401280-017 20X	Mn (257.610 nm)	0.6913	0.07	225394.2233
	R2401280-017 20X	Mo (202.032 nm)	0.0007	20.30	-1.5109
	R2401280-017 20X	Na (588.995 nm)	2.9745	0.23	22281.9354
	R2401280-017 20X	Ni (230.299 nm)	0.0000 u	> 100.00	73.9430
	R2401280-017 20X	Pb (220.353 nm)	0.0008	> 100.00	15.2228
	R2401280-017 20X	Sb (217.582 nm)	0.0034	38.98	20.7934
	R2401280-017 20X	Se (196.026 nm)	0.0042	72.98	2.8431
	R2401280-017 20X	Sn (189.925 nm)	0.0012	49.91	10.7241
	R2401280-017 20X	Sr (216.596 nm)	0.0174	0.19	288.5086
	R2401280-017 20X	Ti (336.122 nm)	0.0009	41.91	-65.1056
	R2401280-017 20X	Tl (190.794 nm)	0.0001 u	> 100.00	1.5528
	R2401280-017 20X	V (292.401 nm)	0.0001	71.76	-50.8593
	R2401280-017 20X	Y (360.074 nm)	1.02	0.41	478385.63
	R2401280-017 20X	Y_R (360.074 nm)	1.02	0.41	477534.80
	R2401280-017 20X	Zn (213.857 nm)	0.0004	2.70	-28.1316
2/22/2024 17:27:58	R2401280-017L 100X	Ag (328.068 nm)	0.0000 u	> 100.00	-262.2863

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401280-017L 100X	Al (237.312 nm)	-0.0004 u	> 100.00	65.9985
	R2401280-017L 100X	As (188.980 nm)	0.0003	31.37	-14.4616
	R2401280-017L 100X	B (249.772 nm)	0.0029	4.79	133.7452
	R2401280-017L 100X	Ba (230.424 nm)	0.0037	4.72	175.9164
	R2401280-017L 100X	Be (313.107 nm)	0.0000 u	> 100.00	-205.6472
	R2401280-017L 100X	Ca (317.933 nm)	2.7968	0.10	110261.2632
	R2401280-017L 100X	Cd (214.439 nm)	0.0000 u	> 100.00	4.7903
	R2401280-017L 100X	Co (230.786 nm)	0.0000 u	> 100.00	52.8678
	R2401280-017L 100X	Cr (267.716 nm)	0.0001 u	95.59	-19.5823
	R2401280-017L 100X	Cu (327.395 nm)	0.0001 u	> 100.00	-33.6072
	R2401280-017L 100X	Fe (234.350 nm)	0.3139	0.28	6919.6592
	R2401280-017L 100X	K (766.491 nm)	-0.0053 u	> 100.00	-285.1116
	R2401280-017L 100X	Mg (279.078 nm)	0.4662	0.03	1398.3382
	R2401280-017L 100X	Mn (257.610 nm)	0.1396	0.08	45504.0652
	R2401280-017L 100X	Mo (202.032 nm)	0.0004 u	> 100.00	-3.9633
	R2401280-017L 100X	Na (588.995 nm)	0.6064	0.19	-3744.9963
	R2401280-017L 100X	Ni (230.299 nm)	0.0004 u	> 100.00	78.8054
	R2401280-017L 100X	Pb (220.353 nm)	-0.0001 u	> 100.00	10.2570
	R2401280-017L 100X	Sb (217.582 nm)	0.0024	9.91	18.3957
	R2401280-017L 100X	Se (196.026 nm)	0.0000 u	> 100.00	-0.3616
	R2401280-017L 100X	Sn (189.925 nm)	0.0008	36.07	9.4256
	R2401280-017L 100X	Sr (216.596 nm)	0.0035	3.48	20.3230
	R2401280-017L 100X	Ti (336.122 nm)	0.0005	43.99	-110.8720
	R2401280-017L 100X	Tl (190.794 nm)	-0.0001 u	> 100.00	1.2798
	R2401280-017L 100X	V (292.401 nm)	-0.0001 u	97.50	-60.7145
	R2401280-017L 100X	Y (360.074 nm)	1.02	0.27	479555.13
	R2401280-017L 100X	Y_R (360.074 nm)	1.02	0.27	478784.94
	R2401280-017L 100X	Zn (213.857 nm)	0.0002	33.37	-38.0479
2/22/2024 17:31:12	R2401280-018 20X	Ag (328.068 nm)	0.0001 u	> 100.00	-257.2553
	R2401280-018 20X	Al (237.312 nm)	0.0004 u	> 100.00	67.7876
	R2401280-018 20X	As (188.980 nm)	0.0034	16.60	-8.9930
	R2401280-018 20X	B (249.772 nm)	0.0131	1.93	471.2414
	R2401280-018 20X	Ba (230.424 nm)	0.0366	0.11	1769.6986
	R2401280-018 20X	Be (313.107 nm)	0.0000 u	> 100.00	-201.5511
	R2401280-018 20X	Ca (317.933 nm)	10.7447	0.11	415514.7134
	R2401280-018 20X	Cd (214.439 nm)	0.0000 u	> 100.00	2.7988
	R2401280-018 20X	Co (230.786 nm)	0.0009	19.93	66.9469
	R2401280-018 20X	Cr (267.716 nm)	0.0001 u	> 100.00	-18.1552
	R2401280-018 20X	Cu (327.395 nm)	0.0001 u	> 100.00	-33.6814
	R2401280-018 20X	Fe (234.350 nm)	2.8693	0.21	61833.1363
	R2401280-018 20X	K (766.491 nm)	0.0602	78.34	-220.2027
	R2401280-018 20X	Mg (279.078 nm)	1.7927	0.12	5431.6014
	R2401280-018 20X	Mn (257.610 nm)	0.2470	0.12	80544.1446
	R2401280-018 20X	Mo (202.032 nm)	0.0002	> 100.00	-5.8097
	R2401280-018 20X	Na (588.995 nm)	1.8847	0.34	10304.5262
	R2401280-018 20X	Ni (230.299 nm)	0.0004 u	> 100.00	78.8536
	R2401280-018 20X	Pb (220.353 nm)	0.0001 u	> 100.00	11.1364
	R2401280-018 20X	Sb (217.582 nm)	-0.0001 u	> 100.00	12.5651
	R2401280-018 20X	Se (196.026 nm)	-0.0020 u	> 100.00	-1.8883
	R2401280-018 20X	Sn (189.925 nm)	0.0001 u	> 100.00	7.6117
	R2401280-018 20X	Sr (216.596 nm)	0.0152	2.51	246.5707
	R2401280-018 20X	Ti (336.122 nm)	0.0005	23.35	-122.3997
	R2401280-018 20X	Tl (190.794 nm)	0.0003 u	> 100.00	1.7183
	R2401280-018 20X	V (292.401 nm)	0.0000	45.35	-54.7631
	R2401280-018 20X	Y (360.074 nm)	1.01	0.28	477287.61
	R2401280-018 20X	Y_R (360.074 nm)	1.01	0.28	476480.43
	R2401280-018 20X	Zn (213.857 nm)	0.0006	8.38	-14.6966

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
2/22/2024 17:34:26	R2401280-018S 20X	Ag (328.068 nm)	0.0036	0.89	-50.1436
	R2401280-018S 20X	Al (237.312 nm)	0.1347	2.11	399.7056
	R2401280-018S 20X	As (188.980 nm)	0.0085	5.48	-0.0319
	R2401280-018S 20X	B (249.772 nm)	0.0838	0.35	2797.0464
	R2401280-018S 20X	Ba (230.424 nm)	0.1855	0.29	8976.1728
	R2401280-018S 20X	Be (313.107 nm)	0.0033	0.23	3369.2470
	R2401280-018S 20X	Ca (317.933 nm)	14.1884	0.17	547777.5205
	R2401280-018S 20X	Cd (214.439 nm)	0.0035	0.72	225.8600
	R2401280-018S 20X	Co (230.786 nm)	0.0350	0.66	598.8582
	R2401280-018S 20X	Cr (267.716 nm)	0.0136	1.14	565.5112
	R2401280-018S 20X	Cu (327.395 nm)	0.0165	0.91	544.3019
	R2401280-018S 20X	Fe (234.350 nm)	3.8523	0.01	82957.4878
	R2401280-018S 20X	K (766.491 nm)	1.3403	0.79	1048.9509
	R2401280-018S 20X	Mg (279.078 nm)	2.4971	0.23	7573.1852
	R2401280-018S 20X	Mn (257.610 nm)	0.3587	0.15	116965.6665
	R2401280-018S 20X	Mo (202.032 nm)	0.0310	1.59	240.1625
	R2401280-018S 20X	Na (588.995 nm)	3.8031	0.42	31389.3357
	R2401280-018S 20X	Ni (230.299 nm)	0.0363	1.83	511.2894
	R2401280-018S 20X	Pb (220.353 nm)	0.0346	0.46	199.2694
	R2401280-018S 20X	Sb (217.582 nm)	0.0334	2.01	92.2244
	R2401280-018S 20X	Se (196.026 nm)	0.0689	1.69	52.6043
	R2401280-018S 20X	Sn (189.925 nm)	0.3405	0.10	1006.8791
	R2401280-018S 20X	Sr (216.596 nm)	0.1556	0.20	2965.4852
	R2401280-018S 20X	Ti (336.122 nm)	0.0331	0.27	3983.5412
	R2401280-018S 20X	Tl (190.794 nm)	0.1294	1.30	164.1015
	R2401280-018S 20X	V (292.401 nm)	0.0327	0.24	1225.6433
	R2401280-018S 20X	Y (360.074 nm)	1.01	0.36	475351.54
	R2401280-018S 20X	Y_R (360.074 nm)	1.01	0.36	474498.09
	R2401280-018S 20X	Zn (213.857 nm)	0.0354	0.59	1910.6639
2/22/2024 17:37:39	R2401280-018SD 20X	Ag (328.068 nm)	0.0033	4.08	-67.2122
	R2401280-018SD 20X	Al (237.312 nm)	0.1250	0.21	375.7486
	R2401280-018SD 20X	As (188.980 nm)	0.0062	15.23	-4.0453
	R2401280-018SD 20X	B (249.772 nm)	0.0797	0.29	2659.7639
	R2401280-018SD 20X	Ba (230.424 nm)	0.1753	0.19	8482.9593
	R2401280-018SD 20X	Be (313.107 nm)	0.0031	0.58	3171.7342
	R2401280-018SD 20X	Ca (317.933 nm)	13.4364	0.17	518894.7400
	R2401280-018SD 20X	Cd (214.439 nm)	0.0033	0.67	216.0501
	R2401280-018SD 20X	Co (230.786 nm)	0.0328	0.60	564.4079
	R2401280-018SD 20X	Cr (267.716 nm)	0.0128	1.02	533.0484
	R2401280-018SD 20X	Cu (327.395 nm)	0.0158	1.62	520.1919
	R2401280-018SD 20X	Fe (234.350 nm)	3.6580	0.10	78782.8201
	R2401280-018SD 20X	K (766.491 nm)	1.2628	2.84	972.1529
	R2401280-018SD 20X	Mg (279.078 nm)	2.3639	0.18	7168.1753
	R2401280-018SD 20X	Mn (257.610 nm)	0.3399	0.18	110819.3007
	R2401280-018SD 20X	Mo (202.032 nm)	0.0302	0.68	233.5854
	R2401280-018SD 20X	Na (588.995 nm)	3.5997	0.23	29154.0852
	R2401280-018SD 20X	Ni (230.299 nm)	0.0342	1.60	486.4977
	R2401280-018SD 20X	Pb (220.353 nm)	0.0326	1.68	188.7226
	R2401280-018SD 20X	Sb (217.582 nm)	0.0322	1.40	89.1737
	R2401280-018SD 20X	Se (196.026 nm)	0.0679	4.87	51.8127
	R2401280-018SD 20X	Sn (189.925 nm)	0.3233	0.39	956.4146
	R2401280-018SD 20X	Sr (216.596 nm)	0.1468	0.20	2795.5638
	R2401280-018SD 20X	Ti (336.122 nm)	0.0313	0.09	3760.3800
	R2401280-018SD 20X	Tl (190.794 nm)	0.1255	0.91	159.1293
	R2401280-018SD 20X	V (292.401 nm)	0.0309	0.74	1153.5403
	R2401280-018SD 20X	Y (360.074 nm)	1.01	0.41	474915.86
	R2401280-018SD 20X	Y_R (360.074 nm)	1.01	0.41	474084.48

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401280-018SD 20X	Zn (213.857 nm)	0.0335	0.12	1802.8100
2/22/2024 17:40:53	R2401280-018A 20X	Ag (328.068 nm)	0.0520	0.29	2783.4776
	R2401280-018A 20X	Al (237.312 nm)	1.9961	0.25	4998.9245
	R2401280-018A 20X	As (188.980 nm)	0.0447	0.65	64.0249
	R2401280-018A 20X	B (249.772 nm)	1.0361	0.08	34122.6114
	R2401280-018A 20X	Ba (230.424 nm)	2.0937	0.11	101382.0279
	R2401280-018A 20X	Be (313.107 nm)	0.0497	0.09	54101.8819
	R2401280-018A 20X	Ca (317.933 nm)	16.0826	0.16	620528.0062
	R2401280-018A 20X	Cd (214.439 nm)	0.0521	0.23	3354.8452
	R2401280-018A 20X	Co (230.786 nm)	0.5202	0.44	8158.3367
	R2401280-018A 20X	Cr (267.716 nm)	0.2027	0.09	8779.5574
	R2401280-018A 20X	Cu (327.395 nm)	0.2502	0.25	8820.7457
	R2401280-018A 20X	Fe (234.350 nm)	4.7229	0.12	101666.7444
	R2401280-018A 20X	K (766.491 nm)	19.1953	0.32	18751.0641
	R2401280-018A 20X	Mg (279.078 nm)	4.3366	0.12	13166.2800
	R2401280-018A 20X	Mn (257.610 nm)	0.8203	0.10	267464.7234
	R2401280-018A 20X	Mo (202.032 nm)	0.4803	1.16	3825.9788
	R2401280-018A 20X	Na (588.995 nm)	22.2529	0.28	234164.0259
	R2401280-018A 20X	Ni (230.299 nm)	0.5333	0.38	6493.9216
	R2401280-018A 20X	Pb (220.353 nm)	0.5149	0.06	2818.9537
	R2401280-018A 20X	Sb (217.582 nm)	0.5014	1.11	1203.8936
	R2401280-018A 20X	Se (196.026 nm)	1.0971 o	0.35	842.8129
	R2401280-018A 20X	Sn (189.925 nm)	4.9777	0.11	14623.0569
	R2401280-018A 20X	Sr (216.596 nm)	2.0091	0.27	38859.5805
	R2401280-018A 20X	Ti (336.122 nm)	0.4885	0.20	61318.2485
	R2401280-018A 20X	Tl (190.794 nm)	2.0128	0.35	2531.5698
	R2401280-018A 20X	V (292.401 nm)	0.4947	0.14	19343.8463
	R2401280-018A 20X	Y (360.074 nm)	0.99	0.39	466348.92
	R2401280-018A 20X	Y_R (360.074 nm)	0.99	0.39	465478.16
	R2401280-018A 20X	Zn (213.857 nm)	0.5353	0.11	29573.6055
2/22/2024 17:44:07	R2401280-018L 100X	Ag (328.068 nm)	0.0000 u	> 100.00	-260.5896
	R2401280-018L 100X	Al (237.312 nm)	0.0010	32.27	69.2951
	R2401280-018L 100X	As (188.980 nm)	0.0024	86.72	-10.6566
	R2401280-018L 100X	B (249.772 nm)	0.0033	8.67	146.9621
	R2401280-018L 100X	Ba (230.424 nm)	0.0075	1.18	356.7017
	R2401280-018L 100X	Be (313.107 nm)	0.0000 u	> 100.00	-208.6388
	R2401280-018L 100X	Ca (317.933 nm)	2.1727	0.06	86288.7229
	R2401280-018L 100X	Cd (214.439 nm)	0.0000 u	> 100.00	1.7266
	R2401280-018L 100X	Co (230.786 nm)	0.0000 u	> 100.00	52.3907
	R2401280-018L 100X	Cr (267.716 nm)	0.0002	85.88	-16.7410
	R2401280-018L 100X	Cu (327.395 nm)	0.0000 u	> 100.00	-36.9352
	R2401280-018L 100X	Fe (234.350 nm)	0.5911	0.20	12876.3765
	R2401280-018L 100X	K (766.491 nm)	0.0059 u	> 100.00	-274.0433
	R2401280-018L 100X	Mg (279.078 nm)	0.3651	0.11	1090.7027
	R2401280-018L 100X	Mn (257.610 nm)	0.0505	0.14	16453.4599
	R2401280-018L 100X	Mo (202.032 nm)	0.0035	26.00	20.1892
	R2401280-018L 100X	Na (588.995 nm)	0.3938	1.85	-6081.6377
	R2401280-018L 100X	Ni (230.299 nm)	0.0003 u	> 100.00	77.3472
	R2401280-018L 100X	Pb (220.353 nm)	-0.0007 u	80.62	6.9740
	R2401280-018L 100X	Sb (217.582 nm)	0.0066	14.11	28.4243
	R2401280-018L 100X	Se (196.026 nm)	0.0064	35.29	4.5580
	R2401280-018L 100X	Sn (189.925 nm)	0.0059	14.26	24.4664
	R2401280-018L 100X	Sr (216.596 nm)	0.0033	15.21	16.7216
	R2401280-018L 100X	Ti (336.122 nm)	0.0021	30.01	88.5738
	R2401280-018L 100X	Tl (190.794 nm)	0.0010	> 100.00	2.5890
	R2401280-018L 100X	V (292.401 nm)	0.0000 u	> 100.00	-58.3794
	R2401280-018L 100X	Y (360.074 nm)	1.01	0.31	475677.87

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401280-018L 100X	Y_R (360.074 nm)	1.01	0.31	474809.47
	R2401280-018L 100X	Zn (213.857 nm)	0.0003	34.08	-35.9207
2/22/2024 17:47:21	Continuing Calibration Verification	Ag (328.068 nm)	0.5180	0.13	30085.6010
	Continuing Calibration Verification	Al (237.312 nm)	10.0960	0.27	25011.7009
	Continuing Calibration Verification	As (188.980 nm)	0.9893	0.27	1733.3952
	Continuing Calibration Verification	B (249.772 nm)	2.4382	0.08	80250.0669
	Continuing Calibration Verification	Ba (230.424 nm)	10.3228	0.10	499870.2116
	Continuing Calibration Verification	Be (313.107 nm)	0.2423	0.07	264753.9321
	Continuing Calibration Verification	Ca (317.933 nm)	25.6807	0.11	989161.2869
	Continuing Calibration Verification	Cd (214.439 nm)	0.5127	0.07	32967.6897
	Continuing Calibration Verification	Co (230.786 nm)	2.5567	0.19	39892.7631
	Continuing Calibration Verification	Cr (267.716 nm)	0.5155	0.03	22358.5315
	Continuing Calibration Verification	Cu (327.395 nm)	1.2423	0.21	43946.9927
	Continuing Calibration Verification	Fe (234.350 nm)	5.0475	0.06	108642.2284
	Continuing Calibration Verification	K (766.491 nm)	24.2418	0.29	23754.3179
	Continuing Calibration Verification	Mg (279.078 nm)	25.1829	0.11	76549.4761
	Continuing Calibration Verification	Mn (257.610 nm)	0.7482	0.01	243961.3946
	Continuing Calibration Verification	Mo (202.032 nm)	2.5480	0.53	20328.5215
	Continuing Calibration Verification	Na (588.995 nm)	25.1198	0.41	265673.8719
	Continuing Calibration Verification	Ni (230.299 nm)	2.1018	0.04	25373.4699
	Continuing Calibration Verification	Pb (220.353 nm)	0.5136	0.46	2811.6568
	Continuing Calibration Verification	Sb (217.582 nm)	4.9564	0.23	11788.0493
	Continuing Calibration Verification	Se (196.026 nm)	0.4907	1.36	376.7564
	Continuing Calibration Verification	Sn (189.925 nm)	5.0799	0.09	14922.8785
	Continuing Calibration Verification	Sr (216.596 nm)	2.5130	0.15	48618.7234
	Continuing Calibration Verification	Ti (336.122 nm)	2.5206	0.07	317139.5162
	Continuing Calibration Verification	Tl (190.794 nm)	1.0370	0.41	1304.9171
	Continuing Calibration Verification	V (292.401 nm)	2.5155	0.06	98587.6782
	Continuing Calibration Verification	Y (360.074 nm)	0.96	0.45	453907.39
	Continuing Calibration Verification	Y_R (360.074 nm)	0.96	0.45	453069.53
	Continuing Calibration Verification	Zn (213.857 nm)	0.9938	0.04	54947.8372
2/22/2024 17:50:35	Continuing Calibration Blank	Ag (328.068 nm)	0.0001 u	> 100.00	-253.9473
	Continuing Calibration Blank	Al (237.312 nm)	0.0001 u	> 100.00	67.2101
	Continuing Calibration Blank	As (188.980 nm)	0.0034	16.07	-8.9835
	Continuing Calibration Blank	B (249.772 nm)	0.0017	10.43	94.4887
	Continuing Calibration Blank	Ba (230.424 nm)	0.0003	25.87	10.9439
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	8.67	-202.1577
	Continuing Calibration Blank	Ca (317.933 nm)	0.0011	13.50	2883.6338
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	5.2308
	Continuing Calibration Blank	Co (230.786 nm)	0.0001	36.16	55.1165
	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u	> 100.00	-22.8306
	Continuing Calibration Blank	Cu (327.395 nm)	0.0000 u	> 100.00	-36.7253
	Continuing Calibration Blank	Fe (234.350 nm)	0.0035	17.36	249.6644
	Continuing Calibration Blank	K (766.491 nm)	0.0069 u	> 100.00	-272.9860
	Continuing Calibration Blank	Mg (279.078 nm)	0.0002 u	> 100.00	-18.6520
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000 u	> 100.00	-3.5768
	Continuing Calibration Blank	Mo (202.032 nm)	0.0065	10.33	44.7107
	Continuing Calibration Blank	Na (588.995 nm)	0.0142	53.49	-10253.7381
	Continuing Calibration Blank	Ni (230.299 nm)	0.0005 u	93.90	80.4161
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0004 u	> 100.00	8.6265
	Continuing Calibration Blank	Sb (217.582 nm)	0.0097	12.71	35.7998
	Continuing Calibration Blank	Se (196.026 nm)	0.0009 u	> 100.00	0.3383
	Continuing Calibration Blank	Sn (189.925 nm)	0.0024	42.37	14.1423
	Continuing Calibration Blank	Sr (216.596 nm)	0.0002	51.14	-44.5922
	Continuing Calibration Blank	Ti (336.122 nm)	0.0060	28.12	572.8200
	Continuing Calibration Blank	Tl (190.794 nm)	0.0000 u	> 100.00	1.3518
	Continuing Calibration Blank	V (292.401 nm)	-0.0001 u	> 100.00	-60.6315

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Y (360.074 nm)	1.01	0.33	474386.67
	Continuing Calibration Blank	Y_R (360.074 nm)	1.01	0.33	473530.82
	Continuing Calibration Blank	Zn (213.857 nm)	0.0002	17.12	-38.7145
2/22/2024 17:53:48	Contract Required Detection Limit	Ag (328.068 nm)	0.0100	1.08	321.1863
	Contract Required Detection Limit	Al (237.312 nm)	0.1981	0.98	556.3391
	Contract Required Detection Limit	As (188.980 nm)	0.0220	5.24	23.9405
	Contract Required Detection Limit	B (249.772 nm)	0.1920	0.23	6355.3345
	Contract Required Detection Limit	Ba (230.424 nm)	0.2080	0.17	10068.1332
	Contract Required Detection Limit	Be (313.107 nm)	0.0049	0.10	5107.7779
	Contract Required Detection Limit	Ca (317.933 nm)	1.0208	0.15	42048.2058
	Contract Required Detection Limit	Cd (214.439 nm)	0.0105	0.38	675.9781
	Contract Required Detection Limit	Co (230.786 nm)	0.0512	0.40	850.4201
	Contract Required Detection Limit	Cr (267.716 nm)	0.0104	1.05	428.1551
	Contract Required Detection Limit	Cu (327.395 nm)	0.0249	0.42	844.9504
	Contract Required Detection Limit	Fe (234.350 nm)	0.1096	0.75	2529.0854
	Contract Required Detection Limit	K (766.491 nm)	0.9178	2.12	630.0271
	Contract Required Detection Limit	Mg (279.078 nm)	0.9838	0.31	2971.9685
	Contract Required Detection Limit	Mn (257.610 nm)	0.0154	0.11	5015.3561
	Contract Required Detection Limit	Mo (202.032 nm)	0.0255	0.75	195.9972
	Contract Required Detection Limit	Na (588.995 nm)	0.9568	0.72	106.7220
	Contract Required Detection Limit	Ni (230.299 nm)	0.0405	0.75	562.2579
	Contract Required Detection Limit	Pb (220.353 nm)	0.0103	5.15	66.7632
	Contract Required Detection Limit	Sb (217.582 nm)	0.0621	0.86	160.2929
	Contract Required Detection Limit	Se (196.026 nm)	0.0086	56.75	6.1965
	Contract Required Detection Limit	Sn (189.925 nm)	0.5040	0.37	1487.0354
	Contract Required Detection Limit	Sr (216.596 nm)	0.1019	0.34	1924.3569
	Contract Required Detection Limit	Ti (336.122 nm)	0.0511	1.58	6253.4172
	Contract Required Detection Limit	Tl (190.794 nm)	0.0157 R 78	16.82	21.0867 R
	Contract Required Detection Limit	V (292.401 nm)	0.0494	0.31	1878.8344
	Contract Required Detection Limit	Y (360.074 nm)	1.00	0.51	471718.60
	Contract Required Detection Limit	Y_R (360.074 nm)	1.00	0.51	470876.85
	Contract Required Detection Limit	Zn (213.857 nm)	0.0195	0.17	1030.1188
2/22/2024 17:57:02	Interference Check Solution A	Ag (328.068 nm)	-0.0003 u	45.68	-277.2972
	Interference Check Solution A	Al (237.312 nm)	258.6082 o	0.11	639028.1306
	Interference Check Solution A	As (188.980 nm)	-0.0038 u	35.84	-21.6614
	Interference Check Solution A	B (249.772 nm)	0.1107	0.41	3679.5848
	Interference Check Solution A	Ba (230.424 nm)	0.0007	23.20	31.5353
	Interference Check Solution A	Be (313.107 nm)	0.0000 u	> 100.00	-214.6781
	Interference Check Solution A	Ca (317.933 nm)	243.1049 o	0.08	9339777.1489
	Interference Check Solution A	Cd (214.439 nm)	-0.0010 Ku +/-0.002	3.53	-62.6697 K
	Interference Check Solution A	Co (230.786 nm)	0.0017	10.71	78.8384
	Interference Check Solution A	Cr (267.716 nm)	0.0010	13.77	16.8277
	Interference Check Solution A	Cu (327.395 nm)	0.0009	33.25	-6.2643
	Interference Check Solution A	Fe (234.350 nm)	95.5078 o	0.09	2052596.8003
	Interference Check Solution A	K (766.491 nm)	-0.0377 u	70.99	-317.2396
	Interference Check Solution A	Mg (279.078 nm)	264.8629 o	0.06	805296.7107
	Interference Check Solution A	Mn (257.610 nm)	0.0015	2.36	467.6772
	Interference Check Solution A	Mo (202.032 nm)	-0.0008 u	32.65	-14.0501
	Interference Check Solution A	Na (588.995 nm)	-0.0636 u	1.13	-11108.2860
	Interference Check Solution A	Ni (230.299 nm)	0.0027	8.21	106.6085
	Interference Check Solution A	Pb (220.353 nm)	0.0024	15.38	23.9699
	Interference Check Solution A	Sb (217.582 nm)	-0.0040 u	23.37	3.3842
	Interference Check Solution A	Se (196.026 nm)	-0.0026 u	87.70	-2.3659
	Interference Check Solution A	Sn (189.925 nm)	0.0039	25.28	18.6612
	Interference Check Solution A	Sr (216.596 nm)	0.0097	2.73	140.5222
	Interference Check Solution A	Ti (336.122 nm)	0.0028	18.27	175.7020
	Interference Check Solution A	Tl (190.794 nm)	0.0013	79.60	3.0704

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Interference Check Solution A	V (292.401 nm)	0.0019	8.86	16.0412
	Interference Check Solution A	Y (360.074 nm)	0.88	0.48	416549.82
	Interference Check Solution A	Y_R (360.074 nm)	0.88	0.48	415722.55
	Interference Check Solution A	Zn (213.857 nm)	0.0132 K+/-0.02	0.51	678.5353 K
2/22/2024 18:00:16	Interference Check Solution AB	Ag (328.068 nm)	0.2068	0.19	11855.7089
	Interference Check Solution AB	Al (237.312 nm)	260.3416 o	0.21	643310.9621
	Interference Check Solution AB	As (188.980 nm)	0.0950	2.98	152.9942
	Interference Check Solution AB	B (249.772 nm)	0.1250	0.04	4151.1112
	Interference Check Solution AB	Ba (230.424 nm)	0.5326	0.09	25785.1654
	Interference Check Solution AB	Be (313.107 nm)	0.4864	0.12	531789.5446
	Interference Check Solution AB	Ca (317.933 nm)	244.3317 o	0.10	9386895.5233
	Interference Check Solution AB	Cd (214.439 nm)	0.9896	0.04	63628.6671
	Interference Check Solution AB	Co (230.786 nm)	0.4931	0.17	7735.8015
	Interference Check Solution AB	Cr (267.716 nm)	0.5122	0.06	22215.8367
	Interference Check Solution AB	Cu (327.395 nm)	0.5344	0.19	18884.9401
	Interference Check Solution AB	Fe (234.350 nm)	96.0440 o	0.13	2064119.6077
	Interference Check Solution AB	K (766.491 nm)	-0.0254 u	81.46	-305.0045
	Interference Check Solution AB	Mg (279.078 nm)	266.1788 o	0.09	809297.4668
	Interference Check Solution AB	Mn (257.610 nm)	0.4978	0.11	162321.2811
	Interference Check Solution AB	Mo (202.032 nm)	-0.0011 u	34.70	-16.2542
	Interference Check Solution AB	Na (588.995 nm)	-0.0567 u	2.34	-11032.6926
	Interference Check Solution AB	Ni (230.299 nm)	1.0067	0.27	12191.7563
	Interference Check Solution AB	Pb (220.353 nm)	0.0514	1.29	291.0019
	Interference Check Solution AB	Sb (217.582 nm)	0.6108	1.04	1463.9236
	Interference Check Solution AB	Se (196.026 nm)	0.0468	6.04	35.6131
	Interference Check Solution AB	Sn (189.925 nm)	0.0034	16.58	17.1540
	Interference Check Solution AB	Sr (216.596 nm)	0.0099	0.70	143.0373
	Interference Check Solution AB	Ti (336.122 nm)	0.0025	15.70	133.0361
	Interference Check Solution AB	Tl (190.794 nm)	0.0986	2.69	125.3701
	Interference Check Solution AB	V (292.401 nm)	0.5106	0.21	19967.9884
	Interference Check Solution AB	Y (360.074 nm)	0.89	0.45	416640.95
	Interference Check Solution AB	Y_R (360.074 nm)	0.88	0.46	415816.28
	Interference Check Solution AB	Zn (213.857 nm)	1.0305	0.18	56981.1299
2/22/2024 18:03:30	HLCCV2	Ag (328.068 nm)	2.2016 Qo	0.20	128729.1671 Q
	HLCCV2	Al (237.312 nm)	518.9955 o	0.16	1282385.0023
	HLCCV2	As (188.980 nm)	4.1483 o	0.28	7316.5325
	HLCCV2	B (249.772 nm)	10.7970 o	0.13	355227.0706
	HLCCV2	Ba (230.424 nm)	39.7592 o	0.13	1925317.3066
	HLCCV2	Be (313.107 nm)	1.0115 o	0.11	1106058.5615
	HLCCV2	Ca (317.933 nm)	240.0022 o	0.05	9220610.0128
	HLCCV2	Cd (214.439 nm)	1.9498 o	0.06	125363.9465
	HLCCV2	Co (230.786 nm)	9.7247 o	0.24	151586.0967
	HLCCV2	Cr (267.716 nm)	10.0959 o	0.10	438378.7010
	HLCCV2	Cu (327.395 nm)	5.4506 o	0.20	192950.0152
	HLCCV2	Fe (234.350 nm)	48.3304 o	0.08	1038772.6345
	HLCCV2	K (766.491 nm)	174.6037 Qo	0.23	172828.6159 Q
	HLCCV2	Mg (279.078 nm)	522.8339 o	0.09	1589657.6665
	HLCCV2	Mn (257.610 nm)	9.7574 o	0.04	3181536.1472
	HLCCV2	Mo (202.032 nm)	10.1364 o	0.23	80893.5045
	HLCCV2	Na (588.995 nm)	214.1416 o	0.51	2343145.3343
	HLCCV2	Ni (230.299 nm)	7.7123 o	0.17	92904.5060
	HLCCV2	Pb (220.353 nm)	9.7711 o	0.14	53294.9607
	HLCCV2	Sb (217.582 nm)	0.0146	29.99	47.5049
	HLCCV2	Se (196.026 nm)	2.0854 o	0.67	1602.3452
	HLCCV2	Sn (189.925 nm)	-0.0060 u	18.14	-10.4232
	HLCCV2	Sr (216.596 nm)	10.1002 o	0.07	195549.1115
	HLCCV2	Ti (336.122 nm)	10.3054 o	0.11	1297195.0510

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	HLCCV2	Tl (190.794 nm)	3.8291 o	0.06	4814.7811
	HLCCV2	V (292.401 nm)	10.1181 o	0.13	396714.5213
	HLCCV2	Y (360.074 nm)	0.84	0.43	394180.81
	HLCCV2	Y_R (360.074 nm)	0.84	0.43	393262.44
	HLCCV2	Zn (213.857 nm)	4.2206 o	0.11	233525.4242
2/22/2024 18:06:45	HLCCV3	Ag (328.068 nm)	0.0024	12.48	-121.3486
	HLCCV3	Al (237.312 nm)	0.1617	2.47	466.4751
	HLCCV3	As (188.980 nm)	0.0251	10.40	29.3241
	HLCCV3	B (249.772 nm)	0.0582	2.20	1955.4086
	HLCCV3	Ba (230.424 nm)	0.0362	0.29	1747.1821
	HLCCV3	Be (313.107 nm)	0.0009	0.94	734.8050
	HLCCV3	Ca (317.933 nm)	190.7591 o	0.17	7329331.4093
	HLCCV3	Cd (214.439 nm)	0.0022	2.11	143.8465
	HLCCV3	Co (230.786 nm)	0.0099	2.98	206.8782
	HLCCV3	Cr (267.716 nm)	0.0036	1.99	132.4159
	HLCCV3	Cu (327.395 nm)	4.1964 o	0.23	148542.6891
	HLCCV3	Fe (234.350 nm)	38.7407 o	0.12	832695.2056
	HLCCV3	K (766.491 nm)	111.7763 Qo	0.15	110539.2271 Q
	HLCCV3	Mg (279.078 nm)	413.5663 o	0.14	1257429.4728
	HLCCV3	Mn (257.610 nm)	0.0154	0.11	5025.4763
	HLCCV3	Mo (202.032 nm)	0.0244	4.12	187.2944
	HLCCV3	Na (588.995 nm)	156.4459 o	0.29	1709032.3622
	HLCCV3	Ni (230.299 nm)	-0.0118 u	1.06	-67.3202
	HLCCV3	Pb (220.353 nm)	0.0044	15.31	34.5462
	HLCCV3	Sb (217.582 nm)	0.0086	16.96	33.1551
	HLCCV3	Se (196.026 nm)	0.0018	26.28	1.0458
	HLCCV3	Sn (189.925 nm)	0.0144	3.17	49.5071
	HLCCV3	Sr (216.596 nm)	0.0158	1.27	257.7250
	HLCCV3	Ti (336.122 nm)	0.0379	10.34	4590.4426
	HLCCV3	Tl (190.794 nm)	2.8644 o	0.39	3602.0856
	HLCCV3	V (292.401 nm)	0.0094	2.68	310.1688
	HLCCV3	Y (360.074 nm)	0.88	0.27	413270.77
	HLCCV3	Y_R (360.074 nm)	0.88	0.27	412394.49
	HLCCV3	Zn (213.857 nm)	0.0118	1.03	605.4917
2/22/2024 18:10:00	HLCCV1	Ag (328.068 nm)	0.9987	0.13	58249.0632
	HLCCV1	Al (237.312 nm)	20.2891	0.20	50196.7072
	HLCCV1	As (188.980 nm)	1.9986	0.15	3517.2284
	HLCCV1	B (249.772 nm)	5.0208	0.09	165209.8753
	HLCCV1	Ba (230.424 nm)	20.1239	0.24	974486.1261
	HLCCV1	Be (313.107 nm)	0.5006	0.14	547235.4605
	HLCCV1	Ca (317.933 nm)	50.1787	0.09	1930057.4024
	HLCCV1	Cd (214.439 nm)	1.0024	0.15	64455.0282
	HLCCV1	Co (230.786 nm)	5.0196	0.11	78270.3161
	HLCCV1	Cr (267.716 nm)	1.0001	0.06	43405.0445
	HLCCV1	Cu (327.395 nm)	2.5045	0.22	88637.1723
	HLCCV1	Fe (234.350 nm)	10.0777	0.11	216739.3967
	HLCCV1	K (766.491 nm)	50.6336	0.26	49920.1561
	HLCCV1	Mg (279.078 nm)	50.0323	0.04	152103.9915
	HLCCV1	Mn (257.610 nm)	1.5073	0.10	491478.0005
	HLCCV1	Mo (202.032 nm)	5.0325	0.42	40157.8973
	HLCCV1	Na (588.995 nm)	50.0048	0.32	539175.5459
	HLCCV1	Ni (230.299 nm)	4.0149	0.14	48400.1478
	HLCCV1	Pb (220.353 nm)	1.0022	0.14	5475.8166
	HLCCV1	Sb (217.582 nm)	10.0342	0.41	23851.5190
	HLCCV1	Se (196.026 nm)	0.9981	0.37	766.6790
	HLCCV1	Sn (189.925 nm)	9.9868	0.07	29330.8431
	HLCCV1	Sr (216.596 nm)	5.0297	0.05	97355.8488

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	HLCCV1	Ti (336.122 nm)	5.0197	0.11	631757.2985
	HLCCV1	Tl (190.794 nm)	2.0076	0.36	2525.0236
	HLCCV1	V (292.401 nm)	5.0158	0.06	196632.1434
	HLCCV1	Y (360.074 nm)	0.95	0.49	445028.50
	HLCCV1	Y_R (360.074 nm)	0.95	0.48	444151.53
	HLCCV1	Zn (213.857 nm)	2.0037	0.14	110837.4062
2/22/2024 18:13:14	Continuing Calibration Verification	Ag (328.068 nm)	0.5169	0.13	30022.5925
	Continuing Calibration Verification	Al (237.312 nm)	10.1129	0.18	25053.6618
	Continuing Calibration Verification	As (188.980 nm)	0.9956	0.24	1744.6564
	Continuing Calibration Verification	B (249.772 nm)	2.4394	0.14	80289.2885
	Continuing Calibration Verification	Ba (230.424 nm)	10.3381	0.12	500613.0158
	Continuing Calibration Verification	Be (313.107 nm)	0.2425	0.13	264964.5311
	Continuing Calibration Verification	Ca (317.933 nm)	25.7228	0.12	990779.2199
	Continuing Calibration Verification	Cd (214.439 nm)	0.5124	0.18	32946.6944
	Continuing Calibration Verification	Co (230.786 nm)	2.5553	0.18	39870.4300
	Continuing Calibration Verification	Cr (267.716 nm)	0.5155	0.21	22361.9107
	Continuing Calibration Verification	Cu (327.395 nm)	1.2405	0.50	43883.2130
	Continuing Calibration Verification	Fe (234.350 nm)	5.0600	0.12	108910.1524
	Continuing Calibration Verification	K (766.491 nm)	24.4137	0.37	23924.7815
	Continuing Calibration Verification	Mg (279.078 nm)	25.2121	0.16	76638.0736
	Continuing Calibration Verification	Mn (257.610 nm)	0.7486	0.15	244093.5352
	Continuing Calibration Verification	Mo (202.032 nm)	2.5549	0.38	20383.4050
	Continuing Calibration Verification	Na (588.995 nm)	25.0637	0.25	265057.0429
	Continuing Calibration Verification	Ni (230.299 nm)	2.1031	0.16	25389.1481
	Continuing Calibration Verification	Pb (220.353 nm)	0.5127	0.37	2806.5412
	Continuing Calibration Verification	Sb (217.582 nm)	4.9627	0.14	11802.9101
	Continuing Calibration Verification	Se (196.026 nm)	0.4874	0.38	374.1993
	Continuing Calibration Verification	Sn (189.925 nm)	5.0766	0.15	14913.1811
	Continuing Calibration Verification	Sr (216.596 nm)	2.5147	0.03	48650.6288
	Continuing Calibration Verification	Ti (336.122 nm)	2.5390	0.15	319461.9973
	Continuing Calibration Verification	Tl (190.794 nm)	1.0394	0.20	1308.0205
	Continuing Calibration Verification	V (292.401 nm)	2.5176	0.09	98670.2059
	Continuing Calibration Verification	Y (360.074 nm)	0.97	0.41	455082.66
	Continuing Calibration Verification	Y_R (360.074 nm)	0.97	0.41	454185.17
	Continuing Calibration Verification	Zn (213.857 nm)	0.9931	0.30	54908.7824
2/22/2024 18:16:28	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u	> 100.00	-261.7836
	Continuing Calibration Blank	Al (237.312 nm)	0.0004 u	> 100.00	67.8013
	Continuing Calibration Blank	As (188.980 nm)	0.0032	13.58	-9.3933
	Continuing Calibration Blank	B (249.772 nm)	0.0034	13.35	149.6827
	Continuing Calibration Blank	Ba (230.424 nm)	0.0005	10.13	18.3412
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	74.51	-204.2725
	Continuing Calibration Blank	Ca (317.933 nm)	0.0014	2.51	2896.0632
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	5.1611
	Continuing Calibration Blank	Co (230.786 nm)	0.0001 u	> 100.00	54.7739
	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u	> 100.00	-26.2509
	Continuing Calibration Blank	Cu (327.395 nm)	-0.0002 u	> 100.00	-44.4184
	Continuing Calibration Blank	Fe (234.350 nm)	0.0042	23.14	263.8376
	Continuing Calibration Blank	K (766.491 nm)	0.1524	15.20	-128.7649
	Continuing Calibration Blank	Mg (279.078 nm)	0.0012	26.35	-15.5626
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000 u	> 100.00	-6.0813
	Continuing Calibration Blank	Mo (202.032 nm)	0.0067	12.72	46.0856
	Continuing Calibration Blank	Na (588.995 nm)	0.0782	3.78	-9549.9577
	Continuing Calibration Blank	Ni (230.299 nm)	0.0010	34.38	85.8684
	Continuing Calibration Blank	Pb (220.353 nm)	0.0003 u	> 100.00	12.5861
	Continuing Calibration Blank	Sb (217.582 nm)	0.0139 Z 0.004	22.98	45.7850 Z
	Continuing Calibration Blank	Se (196.026 nm)	0.0014 u	> 100.00	0.7195
	Continuing Calibration Blank	Sn (189.925 nm)	0.0021	46.29	13.3196

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Sr (216.596 nm)	0.0002	33.74	-44.0186
	Continuing Calibration Blank	Ti (336.122 nm)	0.0076	28.43	772.5490
	Continuing Calibration Blank	Tl (190.794 nm)	0.0005 u	> 100.00	2.0584
	Continuing Calibration Blank	V (292.401 nm)	0.0000 u	> 100.00	-54.8058
	Continuing Calibration Blank	Y (360.074 nm)	1.01	0.30	475564.23
	Continuing Calibration Blank	Y_R (360.074 nm)	1.01	0.30	474633.08
	Continuing Calibration Blank	Zn (213.857 nm)	0.0002	28.76	-40.7379
2/22/2024 18:19:41	PBS-434309	Ag (328.068 nm)	0.0001 u	> 100.00	-255.7205
	PBS-434309	Al (237.312 nm)	-0.0016 u	90.50	62.9287
	PBS-434309	As (188.980 nm)	0.0020	> 100.00	-11.4517
	PBS-434309	B (249.772 nm)	0.0031	2.95	141.0350
	PBS-434309	Ba (230.424 nm)	0.0001	> 100.00	1.3379
	PBS-434309	Be (313.107 nm)	0.0000	69.03	-196.1878
	PBS-434309	Ca (317.933 nm)	0.0144	1.15	3394.9134
	PBS-434309	Cd (214.439 nm)	0.0003	13.31	20.4846
	PBS-434309	Co (230.786 nm)	-0.0001 u	> 100.00	51.0324
	PBS-434309	Cr (267.716 nm)	0.0006	29.41	0.7247
	PBS-434309	Cu (327.395 nm)	0.0004 u	96.58	-25.1034
	PBS-434309	Fe (234.350 nm)	0.0118	6.75	426.4209
	PBS-434309	K (766.491 nm)	0.0635	5.15	-216.8944
	PBS-434309	Mg (279.078 nm)	0.0018	48.11	-13.6277
	PBS-434309	Mn (257.610 nm)	0.0002	5.01	65.1265
	PBS-434309	Mo (202.032 nm)	0.0018	21.42	7.2964
	PBS-434309	Na (588.995 nm)	0.0649	5.95	-9696.1739
	PBS-434309	Ni (230.299 nm)	-0.0008 u	45.65	65.0170
	PBS-434309	Pb (220.353 nm)	-0.0004 u	> 100.00	8.4973
	PBS-434309	Sb (217.582 nm)	0.0071	21.37	29.5860
	PBS-434309	Se (196.026 nm)	0.0023	10.40	1.3653
	PBS-434309	Sn (189.925 nm)	0.0137	5.15	47.5484
	PBS-434309	Sr (216.596 nm)	0.0002 u	> 100.00	-45.0160
	PBS-434309	Ti (336.122 nm)	0.0035	38.78	260.4007
	PBS-434309	Tl (190.794 nm)	0.0002 u	> 100.00	1.6871
	PBS-434309	V (292.401 nm)	0.0001	42.87	-51.0830
	PBS-434309	Y (360.074 nm)	1.01	0.49	476044.09
	PBS-434309	Y_R (360.074 nm)	1.01	0.49	475159.31
	PBS-434309	Zn (213.857 nm)	0.0004	18.08	-28.1862
2/22/2024 18:22:55	LCSS-434309	Ag (328.068 nm)	0.0496	0.45	2644.0821
	LCSS-434309	Al (237.312 nm)	1.9031	0.25	4769.0417
	LCSS-434309	As (188.980 nm)	0.0389	2.95	53.6954
	LCSS-434309	B (249.772 nm)	0.9338	0.06	30757.7560
	LCSS-434309	Ba (230.424 nm)	2.0374	0.19	98656.7317
	LCSS-434309	Be (313.107 nm)	0.0471	0.14	51318.4486
	LCSS-434309	Ca (317.933 nm)	2.0115	0.09	80100.2983
	LCSS-434309	Cd (214.439 nm)	0.0507	0.12	3261.3081
	LCSS-434309	Co (230.786 nm)	0.5110	0.10	8015.7545
	LCSS-434309	Cr (267.716 nm)	0.2025	0.15	8769.7465
	LCSS-434309	Cu (327.395 nm)	0.2497	0.09	8802.0199
	LCSS-434309	Fe (234.350 nm)	1.0001	0.08	21664.6363
	LCSS-434309	K (766.491 nm)	18.4951	0.54	18056.8607
	LCSS-434309	Mg (279.078 nm)	1.9170	0.09	5809.4699
	LCSS-434309	Mn (257.610 nm)	0.4916	0.08	160289.1273
	LCSS-434309	Mo (202.032 nm)	0.4878	0.84	3885.6939
	LCSS-434309	Na (588.995 nm)	19.2123	0.41	200746.3386
	LCSS-434309	Ni (230.299 nm)	0.5230	0.40	6368.9983
	LCSS-434309	Pb (220.353 nm)	0.5030	0.32	2753.8860
	LCSS-434309	Sb (217.582 nm)	0.4814	0.38	1156.5439
	LCSS-434309	Se (196.026 nm)	0.9271	0.34	712.1683

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	LCSS-434309	Sn (189.925 nm)	4.9879	0.11	14652.7976
	LCSS-434309	Sr (216.596 nm)	2.0341	0.34	39342.8408
	LCSS-434309	Ti (336.122 nm)	0.4954	0.12	62183.1948
	LCSS-434309	Tl (190.794 nm)	1.9546	0.42	2458.4360
	LCSS-434309	V (292.401 nm)	0.4931	0.07	19279.5855
	LCSS-434309	Y (360.074 nm)	0.99	0.43	466288.33
	LCSS-434309	Y_R (360.074 nm)	0.99	0.43	465374.96
	LCSS-434309	Zn (213.857 nm)	0.4915	0.10	27152.5525
2/22/2024 18:26:09	R2401277-001	Ag (328.068 nm)	0.0016	8.47	-170.2152
	R2401277-001	Al (237.312 nm)	84.3570 o	0.20	208493.5393
	R2401277-001	As (188.980 nm)	0.0880	2.37	140.5714
	R2401277-001	B (249.772 nm)	0.2607	0.26	8615.6009
	R2401277-001	Ba (230.424 nm)	2.8993	0.17	140392.6527
	R2401277-001	Be (313.107 nm)	0.0042	0.29	4406.3512
	R2401277-001	Ca (317.933 nm)	332.6992 o	0.24	12780825.8476
	R2401277-001	Cd (214.439 nm)	0.0094	0.43	606.1206
	R2401277-001	Co (230.786 nm)	0.0737	0.24	1201.2671
	R2401277-001	Cr (267.716 nm)	0.1424	0.11	6160.1491
	R2401277-001	Cu (327.395 nm)	0.2947	0.28	10395.6292
	R2401277-001	Fe (234.350 nm)	175.5336 o	0.16	3772317.8111
	R2401277-001	K (766.491 nm)	9.2500	0.17	8890.9008
	R2401277-001	Mg (279.078 nm)	67.1878 o	0.21	204265.3022
	R2401277-001	Mn (257.610 nm)	4.9051 o	0.19	1599380.5173
	R2401277-001	Mo (202.032 nm)	0.0138	3.11	102.8458
	R2401277-001	Na (588.995 nm)	1.1634	0.44	2377.4643
	R2401277-001	Ni (230.299 nm)	0.1730	0.39	2156.3691
	R2401277-001	Pb (220.353 nm)	1.8158 o	0.11	9912.7595
	R2401277-001	Sb (217.582 nm)	-0.0082 u	43.73	-6.7590
	R2401277-001	Se (196.026 nm)	-0.0005 u	23.88	-0.7382
	R2401277-001	Sn (189.925 nm)	0.0965	0.33	290.4884
	R2401277-001	Sr (216.596 nm)	0.6275	0.16	12104.5597
	R2401277-001	Ti (336.122 nm)	0.6804	0.23	85481.4062
	R2401277-001	Tl (190.794 nm)	0.0029	39.36	5.0296
	R2401277-001	V (292.401 nm)	0.1731	0.29	6731.9899
	R2401277-001	Y (360.074 nm)	0.96	0.47	451597.41
	R2401277-001	Y_R (360.074 nm)	0.96	0.48	450665.06
	R2401277-001	Zn (213.857 nm)	2.4980 o	0.19	138194.3557
2/22/2024 18:29:23	R2401277-001S	Ag (328.068 nm)	0.0503	0.48	2684.6101
	R2401277-001S	Al (237.312 nm)	85.9524 o	0.22	212435.3550
	R2401277-001S	As (188.980 nm)	0.1231	2.24	202.6373
	R2401277-001S	B (249.772 nm)	1.1031	0.14	36328.6620
	R2401277-001S	Ba (230.424 nm)	3.6945	0.24	178898.6033
	R2401277-001S	Be (313.107 nm)	0.0508	0.14	55302.9295
	R2401277-001S	Ca (317.933 nm)	89.8119 o	0.08	3452249.5696
	R2401277-001S	Cd (214.439 nm)	0.0543	0.24	3495.2633
	R2401277-001S	Co (230.786 nm)	0.5628	0.17	8822.9144
	R2401277-001S	Cr (267.716 nm)	0.3220	0.14	13957.1567
	R2401277-001S	Cu (327.395 nm)	0.5187	0.06	18328.8994
	R2401277-001S	Fe (234.350 nm)	174.5617 o	0.13	3751431.8268
	R2401277-001S	K (766.491 nm)	25.5306	0.20	25032.0712
	R2401277-001S	Mg (279.078 nm)	31.9985	0.12	97272.1714
	R2401277-001S	Mn (257.610 nm)	4.5681 o	0.07	1489491.2132
	R2401277-001S	Mo (202.032 nm)	0.4775	0.26	3803.7383
	R2401277-001S	Na (588.995 nm)	20.4846	0.28	214730.2265
	R2401277-001S	Ni (230.299 nm)	0.6744	0.31	8191.3195
	R2401277-001S	Pb (220.353 nm)	1.7626 o	0.23	9622.4799
	R2401277-001S	Sb (217.582 nm)	0.3080	1.13	744.4851

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401277-001S	Se (196.026 nm)	0.9080	0.76	697.4476
	R2401277-001S	Sn (189.925 nm)	4.8874	0.22	14357.7785
	R2401277-001S	Sr (216.596 nm)	2.3736	0.45	45919.0779
	R2401277-001S	Ti (336.122 nm)	1.0262	0.10	129015.6626
	R2401277-001S	Tl (190.794 nm)	1.8166	0.03	2285.0194
	R2401277-001S	V (292.401 nm)	0.6386	0.14	24984.1329
	R2401277-001S	Y (360.074 nm)	0.99	0.37	465882.63
	R2401277-001S	Y_R (360.074 nm)	0.99	0.37	465001.78
	R2401277-001S	Zn (213.857 nm)	1.7481	0.15	96695.0337
2/22/2024 18:32:36	R2401277-001SD	Ag (328.068 nm)	0.0515	0.46	2757.0187
	R2401277-001SD	Al (237.312 nm)	85.3073 o	0.23	210841.4742
	R2401277-001SD	As (188.980 nm)	0.1330	0.24	220.0716
	R2401277-001SD	B (249.772 nm)	1.1228	0.10	36977.4773
	R2401277-001SD	Ba (230.424 nm)	3.9262	0.15	190120.9877
	R2401277-001SD	Be (313.107 nm)	0.0505	0.12	55030.2461
	R2401277-001SD	Ca (317.933 nm)	218.7095 o	0.12	8402821.6169
	R2401277-001SD	Cd (214.439 nm)	0.0565	0.20	3638.0658
	R2401277-001SD	Co (230.786 nm)	0.5461	0.18	8561.8161
	R2401277-001SD	Cr (267.716 nm)	0.3198	0.12	13864.1740
	R2401277-001SD	Cu (327.395 nm)	0.5665	0.18	20019.8951
	R2401277-001SD	Fe (234.350 nm)	176.2506 o	0.08	3787724.9656
	R2401277-001SD	K (766.491 nm)	26.7224	0.26	26213.6915
	R2401277-001SD	Mg (279.078 nm)	51.6943	0.11	157157.2897
	R2401277-001SD	Mn (257.610 nm)	4.5776 o	0.09	1492580.8919
	R2401277-001SD	Mo (202.032 nm)	0.4729	0.44	3767.3110
	R2401277-001SD	Na (588.995 nm)	21.0425	0.29	220860.9848
	R2401277-001SD	Ni (230.299 nm)	0.6476	0.23	7868.7410
	R2401277-001SD	Pb (220.353 nm)	2.2940 o	0.22	12520.5508
	R2401277-001SD	Sb (217.582 nm)	0.2706	1.19	655.6473
	R2401277-001SD	Se (196.026 nm)	0.9056	0.96	695.5874
	R2401277-001SD	Sn (189.925 nm)	4.8815	0.11	14340.3501
	R2401277-001SD	Sr (216.596 nm)	2.4572	0.41	47536.4201
	R2401277-001SD	Ti (336.122 nm)	0.9971	0.25	125351.4960
	R2401277-001SD	Tl (190.794 nm)	1.7513	0.32	2202.9469
	R2401277-001SD	V (292.401 nm)	0.6417	0.03	25106.9198
	R2401277-001SD	Y (360.074 nm)	0.98	0.44	460886.96
	R2401277-001SD	Y_R (360.074 nm)	0.98	0.44	460105.02
	R2401277-001SD	Zn (213.857 nm)	2.2471 o	0.19	124311.6456
2/22/2024 18:35:50	R2401277-001A	Ag (328.068 nm)	0.0997	0.18	5577.6363
	R2401277-001A	Al (237.312 nm)	85.1641 o	0.16	210487.7643
	R2401277-001A	As (188.980 nm)	0.1673	1.14	280.6766
	R2401277-001A	B (249.772 nm)	2.0237	0.03	66613.0813
	R2401277-001A	Ba (230.424 nm)	5.7020	0.05	276113.4973
	R2401277-001A	Be (313.107 nm)	0.0949	0.02	103596.4042
	R2401277-001A	Ca (317.933 nm)	214.8756 o	0.13	8255572.4480
	R2401277-001A	Cd (214.439 nm)	0.1011	0.21	6506.2585
	R2401277-001A	Co (230.786 nm)	1.0012	0.11	15654.3676
	R2401277-001A	Cr (267.716 nm)	0.5010	0.08	21729.2800
	R2401277-001A	Cu (327.395 nm)	0.7911	0.23	27972.8100
	R2401277-001A	Fe (234.350 nm)	172.5775 o	0.09	3708791.1939
	R2401277-001A	K (766.491 nm)	45.4513	0.26	44782.2213
	R2401277-001A	Mg (279.078 nm)	52.1033	0.07	158400.9207
	R2401277-001A	Mn (257.610 nm)	4.8992 o	0.03	1597437.4570
	R2401277-001A	Mo (202.032 nm)	0.8880	0.45	7080.2798
	R2401277-001A	Na (588.995 nm)	39.6100	0.32	424930.2667
	R2401277-001A	Ni (230.299 nm)	1.1055	0.06	13380.6603
	R2401277-001A	Pb (220.353 nm)	2.6868 o	0.20	14662.6689

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401277-001A	Sb (217.582 nm)	0.6935	0.68	1660.4162
	R2401277-001A	Se (196.026 nm)	1.7916 o	0.25	1376.5691
	R2401277-001A	Sn (189.925 nm)	9.3522	0.08	27467.4312
	R2401277-001A	Sr (216.596 nm)	4.2105	0.14	81490.1949
	R2401277-001A	Ti (336.122 nm)	1.4117	0.24	177541.4202
	R2401277-001A	Tl (190.794 nm)	3.4559 o	0.08	4345.6330
	R2401277-001A	V (292.401 nm)	1.0895	0.12	42665.9296
	R2401277-001A	Y (360.074 nm)	0.97	0.29	458630.52
	R2401277-001A	Y_R (360.074 nm)	0.97	0.28	457800.22
	R2401277-001A	Zn (213.857 nm)	2.6638 o	0.19	147370.1617
2/22/2024 18:39:03	R2401277-001L 5X	Ag (328.068 nm)	0.0004	15.21	-238.7740
	R2401277-001L 5X	Al (237.312 nm)	17.7041	3.08	43809.6412
	R2401277-001L 5X	As (188.980 nm)	0.0195	9.67	19.4954
	R2401277-001L 5X	B (249.772 nm)	0.0581	3.42	1951.4692
	R2401277-001L 5X	Ba (230.424 nm)	0.6260	2.98	30309.8147
	R2401277-001L 5X	Be (313.107 nm)	0.0009	3.28	788.8355
	R2401277-001L 5X	Ca (317.933 nm)	77.7122 o	2.89	2987538.3836
	R2401277-001L 5X	Cd (214.439 nm)	0.0021	4.72	140.4513
	R2401277-001L 5X	Co (230.786 nm)	0.0163	3.53	307.4343
	R2401277-001L 5X	Cr (267.716 nm)	0.0305	2.57	1300.6655
	R2401277-001L 5X	Cu (327.395 nm)	0.0604	3.34	2099.5033
	R2401277-001L 5X	Fe (234.350 nm)	40.3981 o	2.79	868311.6009
	R2401277-001L 5X	K (766.491 nm)	1.8706	4.23	1574.7465
	R2401277-001L 5X	Mg (279.078 nm)	14.5404	2.98	44190.7851
	R2401277-001L 5X	Mn (257.610 nm)	1.0787	2.95	351731.9707
	R2401277-001L 5X	Mo (202.032 nm)	0.0062	14.62	41.9526
	R2401277-001L 5X	Na (588.995 nm)	0.2644	2.49	-7503.2699
	R2401277-001L 5X	Ni (230.299 nm)	0.0381	2.27	532.5549
	R2401277-001L 5X	Pb (220.353 nm)	0.4101	3.27	2247.2794
	R2401277-001L 5X	Sb (217.582 nm)	0.0008 u	> 100.00	14.7012
	R2401277-001L 5X	Se (196.026 nm)	0.0047	43.11	3.2046
	R2401277-001L 5X	Sn (189.925 nm)	0.0221	4.00	72.2061
	R2401277-001L 5X	Sr (216.596 nm)	0.1378	2.68	2620.8539
	R2401277-001L 5X	Ti (336.122 nm)	0.1467	2.41	18290.7824
	R2401277-001L 5X	Tl (190.794 nm)	0.0015	57.96	3.2492
	R2401277-001L 5X	V (292.401 nm)	0.0364	3.41	1369.4785
	R2401277-001L 5X	Y (360.074 nm)	1.00	0.27	470853.19
	R2401277-001L 5X	Y_R (360.074 nm)	1.00	0.27	470052.55
	R2401277-001L 5X	Zn (213.857 nm)	0.5443	3.07	30072.2028
2/22/2024 18:42:17	R2401277-001 10X	Ag (328.068 nm)	0.0003	66.16	-243.2387
	R2401277-001 10X	Al (237.312 nm)	8.8389	0.76	21905.6937
	R2401277-001 10X	As (188.980 nm)	0.0107	14.33	3.9343
	R2401277-001 10X	B (249.772 nm)	0.0287	0.99	982.2056
	R2401277-001 10X	Ba (230.424 nm)	0.3099	0.56	15001.3817
	R2401277-001 10X	Be (313.107 nm)	0.0005	0.75	290.2915
	R2401277-001 10X	Ca (317.933 nm)	38.6550	0.52	1487465.2124
	R2401277-001 10X	Cd (214.439 nm)	0.0011	8.12	72.5404
	R2401277-001 10X	Co (230.786 nm)	0.0080	2.24	177.6055
	R2401277-001 10X	Cr (267.716 nm)	0.0154	0.77	646.1846
	R2401277-001 10X	Cu (327.395 nm)	0.0296	1.23	1009.2932
	R2401277-001 10X	Fe (234.350 nm)	20.3081 o	0.55	436586.6916
	R2401277-001 10X	K (766.491 nm)	0.9404	1.13	652.5022
	R2401277-001 10X	Mg (279.078 nm)	7.2390	0.61	21990.9162
	R2401277-001 10X	Mn (257.610 nm)	0.5350	0.60	174446.8312
	R2401277-001 10X	Mo (202.032 nm)	0.0019	13.65	8.0443
	R2401277-001 10X	Na (588.995 nm)	0.1421	2.43	-8847.2159
	R2401277-001 10X	Ni (230.299 nm)	0.0192	2.30	305.3375

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401277-001 10X	Pb (220.353 nm)	0.2040	0.24	1123.3534
	R2401277-001 10X	Sb (217.582 nm)	0.0002 u	> 100.00	13.1501
	R2401277-001 10X	Se (196.026 nm)	-0.0013 u	> 100.00	-1.3828
	R2401277-001 10X	Sn (189.925 nm)	0.0107	9.77	38.5734
	R2401277-001 10X	Sr (216.596 nm)	0.0681	0.57	1271.6058
	R2401277-001 10X	Ti (336.122 nm)	0.0752	0.76	9290.7132
	R2401277-001 10X	Tl (190.794 nm)	0.0011	> 100.00	2.7530
	R2401277-001 10X	V (292.401 nm)	0.0180	0.71	648.1827
	R2401277-001 10X	Y (360.074 nm)	1.01	0.21	473815.26
	R2401277-001 10X	Y_R (360.074 nm)	1.01	0.21	473052.44
	R2401277-001 10X	Zn (213.857 nm)	0.2697	0.52	14874.5479
2/22/2024 18:45:31	R2401277-001S 10X	Ag (328.068 nm)	0.0054	2.02	54.1332
	R2401277-001S 10X	Al (237.312 nm)	9.1166	1.15	22591.9621
	R2401277-001S 10X	As (188.980 nm)	0.0145	8.45	10.6293
	R2401277-001S 10X	B (249.772 nm)	0.1197	0.86	3977.1102
	R2401277-001S 10X	Ba (230.424 nm)	0.3923	0.93	18991.9577
	R2401277-001S 10X	Be (313.107 nm)	0.0054	0.79	5709.5503
	R2401277-001S 10X	Ca (317.933 nm)	9.7070	0.90	375661.6890
	R2401277-001S 10X	Cd (214.439 nm)	0.0060	1.03	386.2504
	R2401277-001S 10X	Co (230.786 nm)	0.0603	1.08	991.9003
	R2401277-001S 10X	Cr (267.716 nm)	0.0339	1.30	1448.9464
	R2401277-001S 10X	Cu (327.395 nm)	0.0528	1.00	1832.3564
	R2401277-001S 10X	Fe (234.350 nm)	19.9811 o	0.85	429558.5347
	R2401277-001S 10X	K (766.491 nm)	2.5683	1.29	2266.4413
	R2401277-001S 10X	Mg (279.078 nm)	3.4654	0.99	10517.2315
	R2401277-001S 10X	Mn (257.610 nm)	0.4934	0.89	160863.5984
	R2401277-001S 10X	Mo (202.032 nm)	0.0485	0.15	379.4083
	R2401277-001S 10X	Na (588.995 nm)	2.0653	1.22	12289.1350
	R2401277-001S 10X	Ni (230.299 nm)	0.0730	1.62	952.6869
	R2401277-001S 10X	Pb (220.353 nm)	0.1952	1.16	1075.4632
	R2401277-001S 10X	Sb (217.582 nm)	0.0345	0.83	94.7100
	R2401277-001S 10X	Se (196.026 nm)	0.1097	2.03	83.9392
	R2401277-001S 10X	Sn (189.925 nm)	0.5247	1.21	1547.8587
	R2401277-001S 10X	Sr (216.596 nm)	0.2546	0.83	4882.5271
	R2401277-001S 10X	Ti (336.122 nm)	0.1059	0.73	13153.8443
	R2401277-001S 10X	Tl (190.794 nm)	0.2004	1.20	253.2887
	R2401277-001S 10X	V (292.401 nm)	0.0655	1.26	2512.5076
	R2401277-001S 10X	Y (360.074 nm)	1.01	0.29	477053.23
	R2401277-001S 10X	Y_R (360.074 nm)	1.01	0.28	476297.93
	R2401277-001S 10X	Zn (213.857 nm)	0.1897	0.95	10446.9837
2/22/2024 18:48:45	R2401277-001SD 10X	Ag (328.068 nm)	0.0055	7.52	62.4815
	R2401277-001SD 10X	Al (237.312 nm)	8.9849	2.53	22266.4795
	R2401277-001SD 10X	As (188.980 nm)	0.0145	9.89	10.6736
	R2401277-001SD 10X	B (249.772 nm)	0.1216	2.13	4038.8243
	R2401277-001SD 10X	Ba (230.424 nm)	0.4209	2.29	20379.0334
	R2401277-001SD 10X	Be (313.107 nm)	0.0054	2.27	5729.4340
	R2401277-001SD 10X	Ca (317.933 nm)	24.6048	2.27	947840.7868
	R2401277-001SD 10X	Cd (214.439 nm)	0.0063	1.56	405.3207
	R2401277-001SD 10X	Co (230.786 nm)	0.0593	2.21	977.0737
	R2401277-001SD 10X	Cr (267.716 nm)	0.0341	2.48	1454.7336
	R2401277-001SD 10X	Cu (327.395 nm)	0.0573	2.78	1990.2945
	R2401277-001SD 10X	Fe (234.350 nm)	20.3757 o	1.86	438038.7677
	R2401277-001SD 10X	K (766.491 nm)	2.6177	2.39	2315.3708
	R2401277-001SD 10X	Mg (279.078 nm)	5.6174	2.36	17060.4468
	R2401277-001SD 10X	Mn (257.610 nm)	0.4998	2.30	162960.3611
	R2401277-001SD 10X	Mo (202.032 nm)	0.0489	0.93	382.9489
	R2401277-001SD 10X	Na (588.995 nm)	2.0868	2.31	12526.3313

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401277-001SD 10X	Ni (230.299 nm)	0.0717	1.58	937.7211
	R2401277-001SD 10X	Pb (220.353 nm)	0.2578	2.32	1416.8130
	R2401277-001SD 10X	Sb (217.582 nm)	0.0296	4.66	83.1116
	R2401277-001SD 10X	Se (196.026 nm)	0.1060	1.15	81.0848
	R2401277-001SD 10X	Sn (189.925 nm)	0.5325	2.46	1570.6317
	R2401277-001SD 10X	Sr (216.596 nm)	0.2671	2.03	5124.0518
	R2401277-001SD 10X	Ti (336.122 nm)	0.1026	2.22	12737.4188
	R2401277-001SD 10X	Tl (190.794 nm)	0.1942	2.52	245.5582
	R2401277-001SD 10X	V (292.401 nm)	0.0657	2.31	2520.4317
	R2401277-001SD 10X	Y (360.074 nm)	1.01	0.29	473676.05
	R2401277-001SD 10X	Y_R (360.074 nm)	1.01	0.29	472862.24
	R2401277-001SD 10X	Zn (213.857 nm)	0.2442	2.39	13466.3403
2/22/2024 18:51:59	Continuing Calibration Verification	Ag (328.068 nm)	0.5175	0.09	30056.9058
	Continuing Calibration Verification	Al (237.312 nm)	10.0939	0.16	25006.6607
	Continuing Calibration Verification	As (188.980 nm)	0.9857	0.21	1727.1666
	Continuing Calibration Verification	B (249.772 nm)	2.4348	0.05	80136.1305
	Continuing Calibration Verification	Ba (230.424 nm)	10.3195	0.23	499710.3284
	Continuing Calibration Verification	Be (313.107 nm)	0.2424	0.11	264903.1042
	Continuing Calibration Verification	Ca (317.933 nm)	25.7221	0.06	990753.8399
	Continuing Calibration Verification	Cd (214.439 nm)	0.5123	0.20	32943.2161
	Continuing Calibration Verification	Co (230.786 nm)	2.5539	0.22	39848.6609
	Continuing Calibration Verification	Cr (267.716 nm)	0.5155	0.14	22358.7993
	Continuing Calibration Verification	Cu (327.395 nm)	1.2404	0.25	43879.9447
	Continuing Calibration Verification	Fe (234.350 nm)	5.0721	0.08	109171.4206
	Continuing Calibration Verification	K (766.491 nm)	24.2055	0.40	23718.3020
	Continuing Calibration Verification	Mg (279.078 nm)	25.2020	0.09	76607.3910
	Continuing Calibration Verification	Mn (257.610 nm)	0.7486	0.11	244094.0831
	Continuing Calibration Verification	Mo (202.032 nm)	2.5440	0.47	20296.9785
	Continuing Calibration Verification	Na (588.995 nm)	25.0478	0.28	264882.1479
	Continuing Calibration Verification	Ni (230.299 nm)	2.1030	0.11	25387.3985
	Continuing Calibration Verification	Pb (220.353 nm)	0.5144	0.26	2815.8318
	Continuing Calibration Verification	Sb (217.582 nm)	4.9425	0.17	11754.8189
	Continuing Calibration Verification	Se (196.026 nm)	0.4859	0.99	373.0228
	Continuing Calibration Verification	Sn (189.925 nm)	5.0787	0.03	14919.5609
	Continuing Calibration Verification	Sr (216.596 nm)	2.5170	0.31	48695.8251
	Continuing Calibration Verification	Ti (336.122 nm)	2.5210	0.09	317190.8527
	Continuing Calibration Verification	Tl (190.794 nm)	1.0353	0.28	1302.8121
	Continuing Calibration Verification	V (292.401 nm)	2.5180	0.05	98682.7965
	Continuing Calibration Verification	Y (360.074 nm)	0.97	0.44	454983.77
	Continuing Calibration Verification	Y_R (360.074 nm)	0.97	0.44	454127.90
	Continuing Calibration Verification	Zn (213.857 nm)	0.9923	0.14	54865.6335
2/22/2024 18:55:13	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u	> 100.00	-260.7569
	Continuing Calibration Blank	Al (237.312 nm)	-0.0001 u	> 100.00	66.7215
	Continuing Calibration Blank	As (188.980 nm)	0.0037	10.96	-8.3692
	Continuing Calibration Blank	B (249.772 nm)	0.0018	11.58	97.1178
	Continuing Calibration Blank	Ba (230.424 nm)	0.0004	19.04	14.0256
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	10.79	-186.5465
	Continuing Calibration Blank	Ca (317.933 nm)	0.0014	8.25	2898.1090
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	4.9555
	Continuing Calibration Blank	Co (230.786 nm)	0.0001 u	> 100.00	54.6944
	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u	> 100.00	-23.4262
	Continuing Calibration Blank	Cu (327.395 nm)	0.0001 u	> 100.00	-35.4480
	Continuing Calibration Blank	Fe (234.350 nm)	0.0055	21.93	291.7636
	Continuing Calibration Blank	K (766.491 nm)	0.0496	79.35	-230.6596
	Continuing Calibration Blank	Mg (279.078 nm)	-0.0009 u	89.19	-21.9633
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000	88.57	2.0315
	Continuing Calibration Blank	Mo (202.032 nm)	0.0060	12.19	40.3677

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Na (588.995 nm)	0.0302	8.70	-10077.1256
	Continuing Calibration Blank	Ni (230.299 nm)	0.0004	87.93	78.5773
	Continuing Calibration Blank	Pb (220.353 nm)	0.0000 u	> 100.00	11.0612
	Continuing Calibration Blank	Sb (217.582 nm)	0.0094	3.98	35.1815
	Continuing Calibration Blank	Se (196.026 nm)	0.0008 u	> 100.00	0.2480
	Continuing Calibration Blank	Sn (189.925 nm)	0.0018	12.34	12.4451
	Continuing Calibration Blank	Sr (216.596 nm)	0.0002	60.17	-44.5683
	Continuing Calibration Blank	Ti (336.122 nm)	0.0066	27.03	657.9800
	Continuing Calibration Blank	Tl (190.794 nm)	-0.0001 u	> 100.00	1.2949
	Continuing Calibration Blank	V (292.401 nm)	0.0000 u	> 100.00	-54.9813
	Continuing Calibration Blank	Y (360.074 nm)	1.01	0.28	476859.62
	Continuing Calibration Blank	Y_R (360.074 nm)	1.01	0.29	476017.97
	Continuing Calibration Blank	Zn (213.857 nm)	0.0002	44.15	-36.9093
2/22/2024 18:58:26	R2401277-001A 10X	Ag (328.068 nm)	0.0520	0.27	2785.0826
	R2401277-001A 10X	Al (237.312 nm)	10.5995	0.13	26255.7728
	R2401277-001A 10X	As (188.980 nm)	0.0500	1.32	73.3069
	R2401277-001A 10X	B (249.772 nm)	1.0355	0.09	34105.3617
	R2401277-001A 10X	Ba (230.424 nm)	2.3146	0.32	112079.4601
	R2401277-001A 10X	Be (313.107 nm)	0.0494	0.13	53800.1176
	R2401277-001A 10X	Ca (317.933 nm)	39.6928	0.09	1527324.9230
	R2401277-001A 10X	Cd (214.439 nm)	0.0517	0.34	3326.3682
	R2401277-001A 10X	Co (230.786 nm)	0.5139	0.12	8059.8689
	R2401277-001A 10X	Cr (267.716 nm)	0.2147	0.18	9299.7670
	R2401277-001A 10X	Cu (327.395 nm)	0.2779	0.23	9802.0292
	R2401277-001A 10X	Fe (234.350 nm)	20.6417 o	0.13	443754.8189
	R2401277-001A 10X	K (766.491 nm)	20.0105	0.08	19559.2936
	R2401277-001A 10X	Mg (279.078 nm)	8.9886	0.04	27310.6085
	R2401277-001A 10X	Mn (257.610 nm)	1.0078	0.08	328603.3574
	R2401277-001A 10X	Mo (202.032 nm)	0.4463	0.77	3554.3167
	R2401277-001A 10X	Na (588.995 nm)	19.9048	0.22	208357.2013
	R2401277-001A 10X	Ni (230.299 nm)	0.5377	0.05	6546.0750
	R2401277-001A 10X	Pb (220.353 nm)	0.7010	0.34	3833.3478
	R2401277-001A 10X	Sb (217.582 nm)	0.4549	0.72	1093.4460
	R2401277-001A 10X	Se (196.026 nm)	1.0566	0.37	811.6299
	R2401277-001A 10X	Sn (189.925 nm)	4.9465	0.07	14531.2555
	R2401277-001A 10X	Sr (216.596 nm)	2.0250	0.21	39166.5849
	R2401277-001A 10X	Ti (336.122 nm)	0.5217	0.18	65504.4746
	R2401277-001A 10X	Tl (190.794 nm)	1.9754	0.18	2484.5750
	R2401277-001A 10X	V (292.401 nm)	0.5070	0.04	19823.1487
	R2401277-001A 10X	Y (360.074 nm)	0.99	0.42	464104.19
	R2401277-001A 10X	Y_R (360.074 nm)	0.99	0.42	463233.38
	R2401277-001A 10X	Zn (213.857 nm)	0.7796	0.12	43091.9226
2/22/2024 19:01:40	R2401277-001L 50X	Ag (328.068 nm)	0.0000 u	> 100.00	-262.3719
	R2401277-001L 50X	Al (237.312 nm)	1.7807	0.30	4466.6580
	R2401277-001L 50X	As (188.980 nm)	0.0028	41.54	-10.0286
	R2401277-001L 50X	B (249.772 nm)	0.0069	3.31	265.6248
	R2401277-001L 50X	Ba (230.424 nm)	0.0628	0.36	3036.5210
	R2401277-001L 50X	Be (313.107 nm)	0.0001	9.90	-109.9011
	R2401277-001L 50X	Ca (317.933 nm)	7.9041	0.12	306416.3589
	R2401277-001L 50X	Cd (214.439 nm)	0.0002	58.21	17.3391
	R2401277-001L 50X	Co (230.786 nm)	0.0016	17.80	77.8793
	R2401277-001L 50X	Cr (267.716 nm)	0.0032	1.54	115.2458
	R2401277-001L 50X	Cu (327.395 nm)	0.0057	3.75	162.4093
	R2401277-001L 50X	Fe (234.350 nm)	4.1254	0.20	88827.6933
	R2401277-001L 50X	K (766.491 nm)	0.1574	12.10	-123.8612
	R2401277-001L 50X	Mg (279.078 nm)	1.4637	0.18	4431.2361
	R2401277-001L 50X	Mn (257.610 nm)	0.1097	0.20	35776.7163

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401277-001L 50X	Mo (202.032 nm)	0.0035	21.83	20.5524
	R2401277-001L 50X	Na (588.995 nm)	0.0527	10.96	-9829.7960
	R2401277-001L 50X	Ni (230.299 nm)	0.0041	1.33	124.0959
	R2401277-001L 50X	Pb (220.353 nm)	0.0416	1.20	237.9133
	R2401277-001L 50X	Sb (217.582 nm)	0.0026	44.67	19.0782
	R2401277-001L 50X	Se (196.026 nm)	0.0024 u	> 100.00	1.4477
	R2401277-001L 50X	Sn (189.925 nm)	0.0056	16.35	23.5419
	R2401277-001L 50X	Sr (216.596 nm)	0.0140	0.82	223.0243
	R2401277-001L 50X	Ti (336.122 nm)	0.0176	4.10	2035.7069
	R2401277-001L 50X	Tl (190.794 nm)	-0.0002 u	> 100.00	1.1278
	R2401277-001L 50X	V (292.401 nm)	0.0037	1.69	87.4181
	R2401277-001L 50X	Y (360.074 nm)	1.01	0.19	476593.79
	R2401277-001L 50X	Y_R (360.074 nm)	1.01	0.19	475673.16
	R2401277-001L 50X	Zn (213.857 nm)	0.0550	0.10	2991.4706
2/22/2024 19:04:54	Continuing Calibration Verification	Ag (328.068 nm)	0.5191	0.09	30153.5369
	Continuing Calibration Verification	Al (237.312 nm)	10.1134	0.23	25054.8920
	Continuing Calibration Verification	As (188.980 nm)	0.9909	0.19	1736.3488
	Continuing Calibration Verification	B (249.772 nm)	2.4391	0.11	80277.3109
	Continuing Calibration Verification	Ba (230.424 nm)	10.3387	0.30	500642.3039
	Continuing Calibration Verification	Be (313.107 nm)	0.2427	0.08	265230.5722
	Continuing Calibration Verification	Ca (317.933 nm)	25.7719	0.21	992665.6761
	Continuing Calibration Verification	Cd (214.439 nm)	0.5131	0.12	32994.7979
	Continuing Calibration Verification	Co (230.786 nm)	2.5619	0.35	39973.4075
	Continuing Calibration Verification	Cr (267.716 nm)	0.5167	0.19	22412.5652
	Continuing Calibration Verification	Cu (327.395 nm)	1.2420	0.27	43938.4902
	Continuing Calibration Verification	Fe (234.350 nm)	5.0711	0.16	109150.1296
	Continuing Calibration Verification	K (766.491 nm)	24.2800	0.27	23792.1603
	Continuing Calibration Verification	Mg (279.078 nm)	25.2813	0.21	76848.4811
	Continuing Calibration Verification	Mn (257.610 nm)	0.7497	0.14	244451.4535
	Continuing Calibration Verification	Mo (202.032 nm)	2.5498	0.58	20342.9360
	Continuing Calibration Verification	Na (588.995 nm)	25.1693	0.38	266217.1308
	Continuing Calibration Verification	Ni (230.299 nm)	2.1071	0.09	25437.1191
	Continuing Calibration Verification	Pb (220.353 nm)	0.5150	0.24	2819.3820
	Continuing Calibration Verification	Sb (217.582 nm)	4.9638	0.13	11805.4368
	Continuing Calibration Verification	Se (196.026 nm)	0.4901	1.30	376.3146
	Continuing Calibration Verification	Sn (189.925 nm)	5.0891	0.19	14949.9280
	Continuing Calibration Verification	Sr (216.596 nm)	2.5251	0.46	48852.1653
	Continuing Calibration Verification	Ti (336.122 nm)	2.5283	0.06	318113.9540
	Continuing Calibration Verification	Tl (190.794 nm)	1.0376	0.51	1305.6775
	Continuing Calibration Verification	V (292.401 nm)	2.5246	0.11	98944.3153
	Continuing Calibration Verification	Y (360.074 nm)	0.96	0.49	454133.01
	Continuing Calibration Verification	Y_R (360.074 nm)	0.96	0.48	453177.00
	Continuing Calibration Verification	Zn (213.857 nm)	0.9961	0.21	55076.0270
2/22/2024 19:08:08	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u	> 100.00	-264.0922
	Continuing Calibration Blank	Al (237.312 nm)	0.0024	43.73	72.9293
	Continuing Calibration Blank	As (188.980 nm)	0.0029	89.19	-9.7678
	Continuing Calibration Blank	B (249.772 nm)	0.0018	12.24	99.5601
	Continuing Calibration Blank	Ba (230.424 nm)	0.0004	9.76	15.8243
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	59.72	-192.9202
	Continuing Calibration Blank	Ca (317.933 nm)	0.0027	14.31	2947.9205
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	1.6659
	Continuing Calibration Blank	Co (230.786 nm)	0.0002	78.77	56.3222
	Continuing Calibration Blank	Cr (267.716 nm)	0.0001	64.08	-21.1469
	Continuing Calibration Blank	Cu (327.395 nm)	0.0004	38.12	-22.9192
	Continuing Calibration Blank	Fe (234.350 nm)	0.0049	15.38	279.5284
	Continuing Calibration Blank	K (766.491 nm)	0.0312	59.76	-248.9349
	Continuing Calibration Blank	Mg (279.078 nm)	0.0009 u	> 100.00	-16.5664

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000	31.64	8.5049
	Continuing Calibration Blank	Mo (202.032 nm)	0.0069	10.45	47.6900
	Continuing Calibration Blank	Na (588.995 nm)	0.0261	8.19	-10122.5109
	Continuing Calibration Blank	Ni (230.299 nm)	0.0005	56.35	79.9684
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0006 u	> 100.00	7.3359
	Continuing Calibration Blank	Sb (217.582 nm)	0.0099	14.48	36.3920
	Continuing Calibration Blank	Se (196.026 nm)	-0.0012 u	> 100.00	-1.3314
	Continuing Calibration Blank	Sn (189.925 nm)	0.0024	31.05	14.1091
	Continuing Calibration Blank	Sr (216.596 nm)	0.0004	41.27	-41.2005
	Continuing Calibration Blank	Ti (336.122 nm)	0.0067	26.90	668.7656
	Continuing Calibration Blank	Tl (190.794 nm)	0.0001 u	> 100.00	1.4688
	Continuing Calibration Blank	V (292.401 nm)	0.0000 u	> 100.00	-54.7917
	Continuing Calibration Blank	Y (360.074 nm)	1.01	0.31	474850.47
	Continuing Calibration Blank	Y_R (360.074 nm)	1.01	0.32	473611.31
	Continuing Calibration Blank	Zn (213.857 nm)	0.0002	30.38	-37.4527
2/22/2024 19:11:21	PBS-434308	Ag (328.068 nm)	0.0000 u	> 100.00	-264.6328
	PBS-434308	Al (237.312 nm)	-0.0024 u	88.21	61.0994
	PBS-434308	As (188.980 nm)	0.0014	76.72	-12.4383
	PBS-434308	B (249.772 nm)	0.0028	6.34	130.3873
	PBS-434308	Ba (230.424 nm)	0.0001	50.11	0.6642
	PBS-434308	Be (313.107 nm)	0.0000	73.30	-189.6459
	PBS-434308	Ca (317.933 nm)	0.0074	3.82	3128.2414
	PBS-434308	Cd (214.439 nm)	0.0003	13.82	19.5483
	PBS-434308	Co (230.786 nm)	0.0001 u	> 100.00	54.5722
	PBS-434308	Cr (267.716 nm)	0.0005	43.59	-2.3308
	PBS-434308	Cu (327.395 nm)	0.0003	26.26	-28.7483
	PBS-434308	Fe (234.350 nm)	0.0090	11.33	365.9715
	PBS-434308	K (766.491 nm)	-0.0029 u	> 100.00	-282.7254
	PBS-434308	Mg (279.078 nm)	0.0022	50.79	-12.4820
	PBS-434308	Mn (257.610 nm)	0.0001	7.16	32.9916
	PBS-434308	Mo (202.032 nm)	0.0015	39.52	4.8949
	PBS-434308	Na (588.995 nm)	0.0204	21.16	-10185.4537
	PBS-434308	Ni (230.299 nm)	-0.0004 u	34.12	69.1832
	PBS-434308	Pb (220.353 nm)	0.0003 u	> 100.00	12.2717
	PBS-434308	Sb (217.582 nm)	0.0037	28.78	21.6184
	PBS-434308	Se (196.026 nm)	0.0055	22.93	3.8614
	PBS-434308	Sn (189.925 nm)	0.0066	6.55	26.5855
	PBS-434308	Sr (216.596 nm)	0.0003	36.74	-42.3120
	PBS-434308	Ti (336.122 nm)	0.0027	44.93	158.8823
	PBS-434308	Tl (190.794 nm)	0.0007 u	> 100.00	2.2381
	PBS-434308	V (292.401 nm)	0.0001 u	> 100.00	-51.3663
	PBS-434308	Y (360.074 nm)	1.01	0.60	476234.63
	PBS-434308	Y_R (360.074 nm)	1.01	0.61	475413.91
	PBS-434308	Zn (213.857 nm)	0.0005	9.04	-19.8393
2/22/2024 19:14:36	LCSS-434308	Ag (328.068 nm)	0.0501	0.14	2670.1726
	LCSS-434308	Al (237.312 nm)	1.9081	0.20	4781.3384
	LCSS-434308	As (188.980 nm)	0.0368	3.06	50.0925
	LCSS-434308	B (249.772 nm)	0.9380	0.08	30897.2105
	LCSS-434308	Ba (230.424 nm)	2.0460	0.12	99070.1013
	LCSS-434308	Be (313.107 nm)	0.0473	0.18	51494.5675
	LCSS-434308	Ca (317.933 nm)	2.0135	0.20	80175.1992
	LCSS-434308	Cd (214.439 nm)	0.0508	0.40	3270.8776
	LCSS-434308	Co (230.786 nm)	0.5126	0.09	8040.2585
	LCSS-434308	Cr (267.716 nm)	0.2027	0.20	8778.3543
	LCSS-434308	Cu (327.395 nm)	0.2511	0.14	8853.6410
	LCSS-434308	Fe (234.350 nm)	0.9994	0.13	21649.7536
	LCSS-434308	K (766.491 nm)	18.5478	0.41	18109.0988

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	LCSS-434308	Mg (279.078 nm)	1.9225	0.34	5826.1538
	LCSS-434308	Mn (257.610 nm)	0.4930	0.12	160741.7081
	LCSS-434308	Mo (202.032 nm)	0.4885	0.86	3891.3113
	LCSS-434308	Na (588.995 nm)	19.2898	0.35	201597.5987
	LCSS-434308	Ni (230.299 nm)	0.5229	0.25	6368.8226
	LCSS-434308	Pb (220.353 nm)	0.5054	0.20	2767.0911
	LCSS-434308	Sb (217.582 nm)	0.4803	0.60	1153.9252
	LCSS-434308	Se (196.026 nm)	0.9282	0.46	712.9778
	LCSS-434308	Sn (189.925 nm)	4.9812	0.16	14633.2063
	LCSS-434308	Sr (216.596 nm)	2.0351	0.12	39362.2555
	LCSS-434308	Ti (336.122 nm)	0.4962	0.09	62291.4234
	LCSS-434308	Tl (190.794 nm)	1.9504	0.34	2453.1751
	LCSS-434308	V (292.401 nm)	0.4945	0.15	19333.6540
	LCSS-434308	Y (360.074 nm)	0.99	0.41	465715.10
	LCSS-434308	Y_R (360.074 nm)	0.99	0.41	464863.37
	LCSS-434308	Zn (213.857 nm)	0.4948	0.10	27334.5885
2/22/2024 19:17:50	R2401252-003 10X	Ag (328.068 nm)	0.0012	7.29	-190.8789
	R2401252-003 10X	Al (237.312 nm)	2.2809	0.63	5702.4383
	R2401252-003 10X	As (188.980 nm)	0.0024	70.33	-10.8192
	R2401252-003 10X	B (249.772 nm)	0.0226	0.70	781.6548
	R2401252-003 10X	Ba (230.424 nm)	0.2468	0.31	11945.0596
	R2401252-003 10X	Be (313.107 nm)	0.0001	1.61	-126.9777
	R2401252-003 10X	Ca (317.933 nm)	16.7059	0.27	644468.5150
	R2401252-003 10X	Cd (214.439 nm)	0.0012	3.50	81.8977
	R2401252-003 10X	Co (230.786 nm)	0.0018	14.47	81.5954
	R2401252-003 10X	Cr (267.716 nm)	0.0133	0.60	552.1227
	R2401252-003 10X	Cu (327.395 nm)	0.4106	0.38	14501.3373
	R2401252-003 10X	Fe (234.350 nm)	4.8682	0.21	104788.1570
	R2401252-003 10X	K (766.491 nm)	1.9004	1.59	1604.2353
	R2401252-003 10X	Mg (279.078 nm)	2.1722	0.35	6585.3725
	R2401252-003 10X	Mn (257.610 nm)	0.1533	0.24	49971.8090
	R2401252-003 10X	Mo (202.032 nm)	0.0109	4.49	79.5451
	R2401252-003 10X	Na (588.995 nm)	0.5993	0.55	-3822.7750
	R2401252-003 10X	Ni (230.299 nm)	0.0078	7.92	168.1726
	R2401252-003 10X	Pb (220.353 nm)	0.0191	0.55	115.1736
	R2401252-003 10X	Sb (217.582 nm)	0.0064	13.95	28.0326
	R2401252-003 10X	Se (196.026 nm)	0.0012 u	> 100.00	0.5375
	R2401252-003 10X	Sn (189.925 nm)	0.0314	0.94	99.2417
	R2401252-003 10X	Sr (216.596 nm)	0.0363	0.55	655.8186
	R2401252-003 10X	Ti (336.122 nm)	0.0297	0.83	3563.7994
	R2401252-003 10X	Tl (190.794 nm)	0.0005 u	> 100.00	1.9504
	R2401252-003 10X	V (292.401 nm)	0.0034	5.35	75.0525
	R2401252-003 10X	Y (360.074 nm)	1.02	0.26	479077.09
	R2401252-003 10X	Y_R (360.074 nm)	1.02	0.27	478130.83
	R2401252-003 10X	Zn (213.857 nm)	0.7205	0.46	39821.2792
2/22/2024 19:21:04	R2401252-004 10X	Ag (328.068 nm)	0.0013	18.18	-188.6309
	R2401252-004 10X	Al (237.312 nm)	2.2953	6.64	5738.0437
	R2401252-004 10X	As (188.980 nm)	0.0018	47.14	-11.7193
	R2401252-004 10X	B (249.772 nm)	0.0241	7.44	832.3775
	R2401252-004 10X	Ba (230.424 nm)	0.2527	6.49	12233.9493
	R2401252-004 10X	Be (313.107 nm)	0.0001	4.17	-129.1486
	R2401252-004 10X	Ca (317.933 nm)	17.8847	6.32	689740.8454
	R2401252-004 10X	Cd (214.439 nm)	0.0013	12.54	85.0367
	R2401252-004 10X	Co (230.786 nm)	0.0019	15.90	81.9197
	R2401252-004 10X	Cr (267.716 nm)	0.0135	5.39	561.5586
	R2401252-004 10X	Cu (327.395 nm)	0.4210	6.50	14868.4693
	R2401252-004 10X	Fe (234.350 nm)	4.6515	6.23	100132.1608

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401252-004 10X	K (766.491 nm)	2.1850	5.33	1886.3741
	R2401252-004 10X	Mg (279.078 nm)	2.3367	6.45	7085.3863
	R2401252-004 10X	Mn (257.610 nm)	0.1634	6.37	53288.3074
	R2401252-004 10X	Mo (202.032 nm)	0.0082	8.32	58.1477
	R2401252-004 10X	Na (588.995 nm)	0.5841	6.00	-3989.6603
	R2401252-004 10X	Ni (230.299 nm)	0.0075	1.00	164.6764
	R2401252-004 10X	Pb (220.353 nm)	0.0187	5.27	112.9689
	R2401252-004 10X	Sb (217.582 nm)	0.0041	55.48	22.4512
	R2401252-004 10X	Se (196.026 nm)	0.0030	13.69	1.9304
	R2401252-004 10X	Sn (189.925 nm)	0.0310	7.12	98.2790
	R2401252-004 10X	Sr (216.596 nm)	0.0373	5.48	674.6532
	R2401252-004 10X	Ti (336.122 nm)	0.0327	5.42	3940.0698
	R2401252-004 10X	Tl (190.794 nm)	-0.0001 u	> 100.00	1.2773
	R2401252-004 10X	V (292.401 nm)	0.0035	7.02	79.1477
	R2401252-004 10X	Y (360.074 nm)	1.02	0.27	478345.32
	R2401252-004 10X	Y_R (360.074 nm)	1.02	0.27	477436.60
	R2401252-004 10X	Zn (213.857 nm)	0.7274	6.64	40207.1817
2/22/2024 19:24:18	R2401281-001 10X	Ag (328.068 nm)	0.0010	3.57	-201.3528
	R2401281-001 10X	Al (237.312 nm)	21.0106	0.50	51979.3447
	R2401281-001 10X	As (188.980 nm)	0.0041	17.24	-7.6745
	R2401281-001 10X	B (249.772 nm)	0.0562	0.38	1889.5959
	R2401281-001 10X	Ba (230.424 nm)	0.1351	0.17	6539.7964
	R2401281-001 10X	Be (313.107 nm)	0.0002	4.04	7.5211
	R2401281-001 10X	Ca (317.933 nm)	40.6102	0.21	1562558.8607
	R2401281-001 10X	Cd (214.439 nm)	0.0018	6.47	116.6325
	R2401281-001 10X	Co (230.786 nm)	0.0093	1.38	198.5349
	R2401281-001 10X	Cr (267.716 nm)	0.0282	1.25	1200.4557
	R2401281-001 10X	Cu (327.395 nm)	0.2544	0.24	8968.3904
	R2401281-001 10X	Fe (234.350 nm)	7.1110	0.18	152986.0683
	R2401281-001 10X	K (766.491 nm)	3.2318	0.31	2924.2354
	R2401281-001 10X	Mg (279.078 nm)	2.3696	0.27	7185.4066
	R2401281-001 10X	Mn (257.610 nm)	0.2594	0.30	84569.6906
	R2401281-001 10X	Mo (202.032 nm)	0.0029	15.61	15.8199
	R2401281-001 10X	Na (588.995 nm)	6.0778	0.49	56389.3378
	R2401281-001 10X	Ni (230.299 nm)	0.0275	1.96	405.0217
	R2401281-001 10X	Pb (220.353 nm)	0.0936	0.54	520.9815
	R2401281-001 10X	Sb (217.582 nm)	0.0047	18.65	23.8372
	R2401281-001 10X	Se (196.026 nm)	-0.0019 u	> 100.00	-1.8486
	R2401281-001 10X	Sn (189.925 nm)	0.0319	1.63	100.8525
	R2401281-001 10X	Sr (216.596 nm)	0.0747	0.73	1397.9120
	R2401281-001 10X	Ti (336.122 nm)	0.0372	0.29	4505.9256
	R2401281-001 10X	Tl (190.794 nm)	0.0000 u	> 100.00	1.3765
	R2401281-001 10X	V (292.401 nm)	0.0056	5.98	164.1697
	R2401281-001 10X	Y (360.074 nm)	1.00	0.27	470114.36
	R2401281-001 10X	Y_R (360.074 nm)	1.00	0.26	469235.41
	R2401281-001 10X	Zn (213.857 nm)	0.6318	0.26	34913.7003
2/22/2024 19:27:32	R2401312-001 10X	Ag (328.068 nm)	0.0001	30.11	-254.8638
	R2401312-001 10X	Al (237.312 nm)	11.2060	0.85	27754.2846
	R2401312-001 10X	As (188.980 nm)	0.0128	6.87	7.6142
	R2401312-001 10X	B (249.772 nm)	0.0291	1.52	997.9450
	R2401312-001 10X	Ba (230.424 nm)	0.2007	0.66	9714.9659
	R2401312-001 10X	Be (313.107 nm)	0.0005	1.81	382.2538
	R2401312-001 10X	Ca (317.933 nm)	3.8341	0.64	150099.3895
	R2401312-001 10X	Cd (214.439 nm)	0.0030	0.85	196.1303
	R2401312-001 10X	Co (230.786 nm)	0.0100	3.27	208.1849
	R2401312-001 10X	Cr (267.716 nm)	0.0197	0.79	830.7960
	R2401312-001 10X	Cu (327.395 nm)	0.0213	1.54	717.6420

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401312-001 10X	Fe (234.350 nm)	22.2106 o	0.55	477470.2977
	R2401312-001 10X	K (766.491 nm)	1.0299	0.44	741.2354
	R2401312-001 10X	Mg (279.078 nm)	3.2283	0.59	9796.3808
	R2401312-001 10X	Mn (257.610 nm)	0.5344	0.66	174241.1741
	R2401312-001 10X	Mo (202.032 nm)	0.0003	61.44	-5.2361
	R2401312-001 10X	Na (588.995 nm)	0.0676	9.27	-9665.8849
	R2401312-001 10X	Ni (230.299 nm)	0.0232	3.99	353.4289
	R2401312-001 10X	Pb (220.353 nm)	0.1688	0.57	931.3221
	R2401312-001 10X	Sb (217.582 nm)	0.0005 u	> 100.00	14.0657
	R2401312-001 10X	Se (196.026 nm)	-0.0001 u	> 100.00	-0.4835
	R2401312-001 10X	Sn (189.925 nm)	0.0578	1.58	176.9919
	R2401312-001 10X	Sr (216.596 nm)	0.0187	1.01	314.0001
	R2401312-001 10X	Ti (336.122 nm)	0.0581	1.42	7134.0654
	R2401312-001 10X	Tl (190.794 nm)	-0.0007 u	26.25	0.5022
	R2401312-001 10X	V (292.401 nm)	0.0224	0.73	820.1484
	R2401312-001 10X	Y (360.074 nm)	1.02	0.49	479297.76
	R2401312-001 10X	Y_R (360.074 nm)	1.02	0.49	478383.43
	R2401312-001 10X	Zn (213.857 nm)	0.2136	0.77	11773.6943
2/22/2024 19:30:46	R2401333-001 10X	Ag (328.068 nm)	-0.0001 u	> 100.00	-265.9952
	R2401333-001 10X	Al (237.312 nm)	5.2124	1.44	12945.5412
	R2401333-001 10X	As (188.980 nm)	0.0039	16.02	-8.1351
	R2401333-001 10X	B (249.772 nm)	0.0167	1.96	589.8978
	R2401333-001 10X	Ba (230.424 nm)	0.0317	1.79	1530.3374
	R2401333-001 10X	Be (313.107 nm)	0.0003	3.54	109.8398
	R2401333-001 10X	Ca (317.933 nm)	1.2713	1.28	51669.0077
	R2401333-001 10X	Cd (214.439 nm)	0.0001	35.33	11.9233
	R2401333-001 10X	Co (230.786 nm)	0.0075	1.65	169.0193
	R2401333-001 10X	Cr (267.716 nm)	0.0116	1.92	477.5395
	R2401333-001 10X	Cu (327.395 nm)	0.0131	0.47	425.0786
	R2401333-001 10X	Fe (234.350 nm)	13.7773 o	1.12	296241.9005
	R2401333-001 10X	K (766.491 nm)	0.5734	7.05	288.6329
	R2401333-001 10X	Mg (279.078 nm)	3.1453	1.36	9544.1966
	R2401333-001 10X	Mn (257.610 nm)	0.3183	1.26	103774.6856
	R2401333-001 10X	Mo (202.032 nm)	0.0001 u	> 100.00	-6.4289
	R2401333-001 10X	Na (588.995 nm)	0.0940	2.34	-9376.0481
	R2401333-001 10X	Ni (230.299 nm)	0.0608	1.83	806.6926
	R2401333-001 10X	Pb (220.353 nm)	0.0148	5.94	91.3442
	R2401333-001 10X	Sb (217.582 nm)	0.0002 u	> 100.00	13.3190
	R2401333-001 10X	Se (196.026 nm)	-0.0013 u	> 100.00	-1.3597
	R2401333-001 10X	Sn (189.925 nm)	0.0020	39.34	13.0031
	R2401333-001 10X	Sr (216.596 nm)	0.0075	3.64	96.3870
	R2401333-001 10X	Ti (336.122 nm)	0.2461	1.46	30797.3000
	R2401333-001 10X	Tl (190.794 nm)	-0.0007 u	38.44	0.5421
	R2401333-001 10X	V (292.401 nm)	0.0160	1.28	572.1237
	R2401333-001 10X	Y (360.074 nm)	1.02	0.35	479728.34
	R2401333-001 10X	Y_R (360.074 nm)	1.02	0.35	478807.77
	R2401333-001 10X	Zn (213.857 nm)	0.0622	1.46	3390.1956
2/22/2024 19:34:00	R2401333-002 10X	Ag (328.068 nm)	0.0000 u	> 100.00	-264.4367
	R2401333-002 10X	Al (237.312 nm)	8.0240	0.88	19892.3434
	R2401333-002 10X	As (188.980 nm)	0.0053	18.98	-5.5332
	R2401333-002 10X	B (249.772 nm)	0.0198	1.63	689.9284
	R2401333-002 10X	Ba (230.424 nm)	0.0651	0.38	3147.0655
	R2401333-002 10X	Be (313.107 nm)	0.0004	4.05	212.8371
	R2401333-002 10X	Ca (317.933 nm)	1.4083	0.66	56931.6782
	R2401333-002 10X	Cd (214.439 nm)	0.0002	15.25	18.7276
	R2401333-002 10X	Co (230.786 nm)	0.0087	5.15	187.7739
	R2401333-002 10X	Cr (267.716 nm)	0.0225	0.82	952.4012

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401333-002 10X	Cu (327.395 nm)	0.0197	0.97	659.8604
	R2401333-002 10X	Fe (234.350 nm)	16.3620 o	0.60	351786.0552
	R2401333-002 10X	K (766.491 nm)	0.8561	2.52	568.8797
	R2401333-002 10X	Mg (279.078 nm)	3.9826	0.57	12089.7137
	R2401333-002 10X	Mn (257.610 nm)	0.3332	0.68	108644.1594
	R2401333-002 10X	Mo (202.032 nm)	-0.0001 u	> 100.00	-8.2510
	R2401333-002 10X	Na (588.995 nm)	0.1100	0.83	-9200.7660
	R2401333-002 10X	Ni (230.299 nm)	0.0879	1.06	1132.5074
	R2401333-002 10X	Pb (220.353 nm)	0.0648	1.18	363.9827
	R2401333-002 10X	Sb (217.582 nm)	-0.0021 u	61.52	7.7170
	R2401333-002 10X	Se (196.026 nm)	0.0006 u	> 100.00	0.0977
	R2401333-002 10X	Sn (189.925 nm)	0.0031	10.44	16.2993
	R2401333-002 10X	Sr (216.596 nm)	0.0115	2.23	174.5316
	R2401333-002 10X	Ti (336.122 nm)	0.4240	0.87	53194.4253
	R2401333-002 10X	Tl (190.794 nm)	-0.0007 u	47.07	0.5015
	R2401333-002 10X	V (292.401 nm)	0.0239	1.23	880.1713
	R2401333-002 10X	Y (360.074 nm)	1.02	0.34	479380.02
	R2401333-002 10X	Y_R (360.074 nm)	1.02	0.34	478431.55
	R2401333-002 10X	Zn (213.857 nm)	0.0750	0.78	4098.2587
2/22/2024 19:37:14	R2401333-003 10X	Ag (328.068 nm)	0.0000 u	> 100.00	-261.7323
	R2401333-003 10X	Al (237.312 nm)	8.3185	0.33	20620.0423
	R2401333-003 10X	As (188.980 nm)	0.0039	29.67	-8.1167
	R2401333-003 10X	B (249.772 nm)	0.0181	1.36	633.2951
	R2401333-003 10X	Ba (230.424 nm)	0.0660	0.07	3189.5006
	R2401333-003 10X	Be (313.107 nm)	0.0004	2.48	205.4129
	R2401333-003 10X	Ca (317.933 nm)	1.3903	0.12	56238.5998
	R2401333-003 10X	Cd (214.439 nm)	0.0002	25.49	14.4873
	R2401333-003 10X	Co (230.786 nm)	0.0083	1.81	181.7656
	R2401333-003 10X	Cr (267.716 nm)	0.0196	0.29	825.4149
	R2401333-003 10X	Cu (327.395 nm)	0.0189	0.17	629.6572
	R2401333-003 10X	Fe (234.350 nm)	14.6337 o	0.06	314644.8120
	R2401333-003 10X	K (766.491 nm)	0.6437	7.06	358.3039
	R2401333-003 10X	Mg (279.078 nm)	3.2826	0.13	9961.4047
	R2401333-003 10X	Mn (257.610 nm)	0.2481	0.11	80896.8075
	R2401333-003 10X	Mo (202.032 nm)	0.0001 u	> 100.00	-6.8466
	R2401333-003 10X	Na (588.995 nm)	0.0958	4.27	-9356.8037
	R2401333-003 10X	Ni (230.299 nm)	0.0570	0.84	760.8150
	R2401333-003 10X	Pb (220.353 nm)	0.0761	1.25	425.5530
	R2401333-003 10X	Sb (217.582 nm)	-0.0011 u	71.47	10.2888
	R2401333-003 10X	Se (196.026 nm)	0.0004 u	> 100.00	-0.0668
	R2401333-003 10X	Sn (189.925 nm)	0.0043	14.73	19.9096
	R2401333-003 10X	Sr (216.596 nm)	0.0106	1.82	156.8914
	R2401333-003 10X	Ti (336.122 nm)	0.3086	0.07	38677.0092
	R2401333-003 10X	Tl (190.794 nm)	-0.0001 u	> 100.00	1.2987
	R2401333-003 10X	V (292.401 nm)	0.0211	1.75	770.9665
	R2401333-003 10X	Y (360.074 nm)	1.02	0.34	479535.87
	R2401333-003 10X	Y_R (360.074 nm)	1.02	0.34	478586.76
	R2401333-003 10X	Zn (213.857 nm)	0.0806	0.11	4412.2739
2/22/2024 19:40:27	R2401333-003S 10X	Ag (328.068 nm)	0.0051	2.70	39.2578
	R2401333-003S 10X	Al (237.312 nm)	9.0487	0.32	22424.1521
	R2401333-003S 10X	As (188.980 nm)	0.0098	18.06	2.3525
	R2401333-003S 10X	B (249.772 nm)	0.1103	0.40	3666.5896
	R2401333-003S 10X	Ba (230.424 nm)	0.2896	0.29	14021.7615
	R2401333-003S 10X	Be (313.107 nm)	0.0053	0.16	5551.9481
	R2401333-003S 10X	Ca (317.933 nm)	1.6022	0.15	64378.6935
	R2401333-003S 10X	Cd (214.439 nm)	0.0054	1.18	348.7979
	R2401333-003S 10X	Co (230.786 nm)	0.0588	0.61	969.6032

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401333-003S 10X	Cr (267.716 nm)	0.0349	0.42	1492.2261
	R2401333-003S 10X	Cu (327.395 nm)	0.0420	0.51	1450.4807
	R2401333-003S 10X	Fe (234.350 nm)	13.4379 o	0.06	288948.3188
	R2401333-003S 10X	K (766.491 nm)	2.4207	1.73	2120.0640
	R2401333-003S 10X	Mg (279.078 nm)	2.5694	0.21	7793.0831
	R2401333-003S 10X	Mn (257.610 nm)	0.3279	0.18	106921.1968
	R2401333-003S 10X	Mo (202.032 nm)	0.0468	0.79	366.2578
	R2401333-003S 10X	Na (588.995 nm)	2.0206	0.39	11798.1997
	R2401333-003S 10X	Ni (230.299 nm)	0.0934	0.36	1198.3751
	R2401333-003S 10X	Pb (220.353 nm)	0.1257	0.21	696.4013
	R2401333-003S 10X	Sb (217.582 nm)	0.0344	4.64	94.4754
	R2401333-003S 10X	Se (196.026 nm)	0.1014	2.06	77.5164
	R2401333-003S 10X	Sn (189.925 nm)	0.5134	0.22	1514.4967
	R2401333-003S 10X	Sr (216.596 nm)	0.2184	0.40	4182.0711
	R2401333-003S 10X	Ti (336.122 nm)	0.3175	0.20	39794.1982
	R2401333-003S 10X	Tl (190.794 nm)	0.1984	0.30	250.7815
	R2401333-003S 10X	V (292.401 nm)	0.0675	0.47	2589.4307
	R2401333-003S 10X	Y (360.074 nm)	1.02	0.36	478673.05
	R2401333-003S 10X	Y_R (360.074 nm)	1.02	0.36	477730.20
	R2401333-003S 10X	Zn (213.857 nm)	0.1423	0.13	7822.9146
2/22/2024 19:43:41	Continuing Calibration Verification	Ag (328.068 nm)	0.5177	0.11	30071.9754
	Continuing Calibration Verification	Al (237.312 nm)	10.1125	0.18	25052.5183
	Continuing Calibration Verification	As (188.980 nm)	0.9851	0.33	1726.0029
	Continuing Calibration Verification	B (249.772 nm)	2.4323	0.05	80054.9803
	Continuing Calibration Verification	Ba (230.424 nm)	10.3446	0.17	500926.0289
	Continuing Calibration Verification	Be (313.107 nm)	0.2421	0.07	264568.3164
	Continuing Calibration Verification	Ca (317.933 nm)	25.6979	0.13	989822.7760
	Continuing Calibration Verification	Cd (214.439 nm)	0.5120	0.16	32922.2770
	Continuing Calibration Verification	Co (230.786 nm)	2.5586	0.16	39921.1688
	Continuing Calibration Verification	Cr (267.716 nm)	0.5159	0.10	22377.5770
	Continuing Calibration Verification	Cu (327.395 nm)	1.2426	0.33	43959.2577
	Continuing Calibration Verification	Fe (234.350 nm)	5.0668	0.09	109055.9953
	Continuing Calibration Verification	K (766.491 nm)	24.2197	0.37	23732.4330
	Continuing Calibration Verification	Mg (279.078 nm)	25.1998	0.15	76600.8760
	Continuing Calibration Verification	Mn (257.610 nm)	0.7480	0.09	243886.8658
	Continuing Calibration Verification	Mo (202.032 nm)	2.5427	0.41	20286.4062
	Continuing Calibration Verification	Na (588.995 nm)	25.1100	0.39	265566.0422
	Continuing Calibration Verification	Ni (230.299 nm)	2.1035	0.12	25393.8078
	Continuing Calibration Verification	Pb (220.353 nm)	0.5122	0.45	2803.7146
	Continuing Calibration Verification	Sb (217.582 nm)	4.9448	0.20	11760.4090
	Continuing Calibration Verification	Se (196.026 nm)	0.4889	0.83	375.3696
	Continuing Calibration Verification	Sn (189.925 nm)	5.0713	0.12	14897.6148
	Continuing Calibration Verification	Sr (216.596 nm)	2.5210	0.27	48772.2798
	Continuing Calibration Verification	Ti (336.122 nm)	2.5224	0.11	317372.6612
	Continuing Calibration Verification	Tl (190.794 nm)	1.0391	0.42	1307.6270
	Continuing Calibration Verification	V (292.401 nm)	2.5193	0.05	98735.6225
	Continuing Calibration Verification	Y (360.074 nm)	0.97	0.51	455102.85
	Continuing Calibration Verification	Y_R (360.074 nm)	0.97	0.51	454130.56
	Continuing Calibration Verification	Zn (213.857 nm)	0.9949	0.24	55009.1720
2/22/2024 19:46:55	Continuing Calibration Blank	Ag (328.068 nm)	0.0001	78.49	-255.6934
	Continuing Calibration Blank	Al (237.312 nm)	0.0010 u	> 100.00	69.2974
	Continuing Calibration Blank	As (188.980 nm)	0.0038	29.30	-8.2029
	Continuing Calibration Blank	B (249.772 nm)	0.0016	19.02	90.8082
	Continuing Calibration Blank	Ba (230.424 nm)	0.0005	9.82	19.9206
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	4.68	-195.5729
	Continuing Calibration Blank	Ca (317.933 nm)	0.0015	4.40	2901.3556
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	3.2608

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Co (230.786 nm)	0.0000 u	> 100.00	52.5362
	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u	> 100.00	-24.5473
	Continuing Calibration Blank	Cu (327.395 nm)	0.0004	46.80	-24.8060
	Continuing Calibration Blank	Fe (234.350 nm)	0.0058	24.06	297.4573
	Continuing Calibration Blank	K (766.491 nm)	0.0114 u	> 100.00	-268.5996
	Continuing Calibration Blank	Mg (279.078 nm)	0.0006	76.99	-17.4538
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000	50.31	6.0746
	Continuing Calibration Blank	Mo (202.032 nm)	0.0063	7.29	43.2437
	Continuing Calibration Blank	Na (588.995 nm)	0.0188	31.66	-10202.7020
	Continuing Calibration Blank	Ni (230.299 nm)	0.0003 u	> 100.00	78.4994
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0002 u	> 100.00	9.6854
	Continuing Calibration Blank	Sb (217.582 nm)	0.0098	9.26	36.1657
	Continuing Calibration Blank	Se (196.026 nm)	0.0001 u	> 100.00	-0.2867
	Continuing Calibration Blank	Sn (189.925 nm)	0.0012	41.00	10.7605
	Continuing Calibration Blank	Sr (216.596 nm)	0.0001 u	> 100.00	-46.9941
	Continuing Calibration Blank	Ti (336.122 nm)	0.0073	26.60	740.7083
	Continuing Calibration Blank	Tl (190.794 nm)	0.0006 u	> 100.00	2.1966
	Continuing Calibration Blank	V (292.401 nm)	0.0000 u	> 100.00	-55.4538
	Continuing Calibration Blank	Y (360.074 nm)	1.01	0.31	476657.91
	Continuing Calibration Blank	Y_R (360.074 nm)	1.01	0.31	475754.27
	Continuing Calibration Blank	Zn (213.857 nm)	0.0002	28.78	-40.7273
2/22/2024 19:50:09	R2401333-003SD 10X	Ag (328.068 nm)	0.0053	2.01	48.7693
	R2401333-003SD 10X	Al (237.312 nm)	8.5816	0.74	21270.1781
	R2401333-003SD 10X	As (188.980 nm)	0.0092	14.55	1.3102
	R2401333-003SD 10X	B (249.772 nm)	0.1125	0.77	3739.0728
	R2401333-003SD 10X	Ba (230.424 nm)	0.2769	0.60	13406.6723
	R2401333-003SD 10X	Be (313.107 nm)	0.0053	0.52	5575.2834
	R2401333-003SD 10X	Ca (317.933 nm)	1.4593	0.51	58890.0039
	R2401333-003SD 10X	Cd (214.439 nm)	0.0054	1.35	351.4675
	R2401333-003SD 10X	Co (230.786 nm)	0.0592	0.90	976.1133
	R2401333-003SD 10X	Cr (267.716 nm)	0.0372	0.70	1588.8758
	R2401333-003SD 10X	Cu (327.395 nm)	0.0430	0.54	1482.7370
	R2401333-003SD 10X	Fe (234.350 nm)	13.9867 o	0.49	300742.6365
	R2401333-003SD 10X	K (766.491 nm)	2.4874	1.54	2186.2673
	R2401333-003SD 10X	Mg (279.078 nm)	2.8377	0.57	8608.9295
	R2401333-003SD 10X	Mn (257.610 nm)	0.3162	0.59	103083.7352
	R2401333-003SD 10X	Mo (202.032 nm)	0.0482	0.70	377.4843
	R2401333-003SD 10X	Na (588.995 nm)	2.0182	0.85	11772.3986
	R2401333-003SD 10X	Ni (230.299 nm)	0.0999	1.17	1276.4954
	R2401333-003SD 10X	Pb (220.353 nm)	0.1221	1.36	676.6842
	R2401333-003SD 10X	Sb (217.582 nm)	0.0354	2.26	96.9095
	R2401333-003SD 10X	Se (196.026 nm)	0.1006	3.98	76.9312
	R2401333-003SD 10X	Sn (189.925 nm)	0.5151	0.64	1519.7524
	R2401333-003SD 10X	Sr (216.596 nm)	0.2180	0.54	4173.2733
	R2401333-003SD 10X	Ti (336.122 nm)	0.3295	0.57	41296.8053
	R2401333-003SD 10X	Tl (190.794 nm)	0.1957	0.76	247.3584
	R2401333-003SD 10X	V (292.401 nm)	0.0681	0.49	2614.5089
	R2401333-003SD 10X	Y (360.074 nm)	1.02	0.33	478128.69
	R2401333-003SD 10X	Y_R (360.074 nm)	1.02	0.33	477215.29
	R2401333-003SD 10X	Zn (213.857 nm)	0.1325	0.61	7284.4620
2/22/2024 19:53:22	R2401333-003A 10X	Ag (328.068 nm)	0.0511	0.28	2731.3552
	R2401333-003A 10X	Al (237.312 nm)	9.9933	0.26	24758.1167
	R2401333-003A 10X	As (188.980 nm)	0.0444	3.02	63.4261
	R2401333-003A 10X	B (249.772 nm)	1.0041	0.15	33072.1822
	R2401333-003A 10X	Ba (230.424 nm)	2.0980	0.22	101588.1204
	R2401333-003A 10X	Be (313.107 nm)	0.0485	0.18	52884.9062
	R2401333-003A 10X	Ca (317.933 nm)	3.4977	0.13	137180.5591

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401333-003A 10X	Cd (214.439 nm)	0.0514	0.37	3308.3011
	R2401333-003A 10X	Co (230.786 nm)	0.5171	0.08	8110.1691
	R2401333-003A 10X	Cr (267.716 nm)	0.2170	0.11	9398.4450
	R2401333-003A 10X	Cu (327.395 nm)	0.2634	0.30	9287.2006
	R2401333-003A 10X	Fe (234.350 nm)	14.9874 o	0.10	322246.9276
	R2401333-003A 10X	K (766.491 nm)	19.3725	0.28	18926.7577
	R2401333-003A 10X	Mg (279.078 nm)	5.1095	0.05	15516.1200
	R2401333-003A 10X	Mn (257.610 nm)	0.7247	0.12	236286.2799
	R2401333-003A 10X	Mo (202.032 nm)	0.4414	0.76	3515.3243
	R2401333-003A 10X	Na (588.995 nm)	19.4631	0.23	203503.0381
	R2401333-003A 10X	Ni (230.299 nm)	0.5787	0.18	7040.2144
	R2401333-003A 10X	Pb (220.353 nm)	0.5777	0.22	3161.0476
	R2401333-003A 10X	Sb (217.582 nm)	0.4537	0.70	1090.7411
	R2401333-003A 10X	Se (196.026 nm)	1.0400	0.69	798.9228
	R2401333-003A 10X	Sn (189.925 nm)	4.8804	0.15	14337.1180
	R2401333-003A 10X	Sr (216.596 nm)	1.9864	0.12	38419.2749
	R2401333-003A 10X	Ti (336.122 nm)	0.7487	0.18	94077.3601
	R2401333-003A 10X	Tl (190.794 nm)	1.9359	0.05	2434.9187
	R2401333-003A 10X	V (292.401 nm)	0.5021	0.01	19633.0302
	R2401333-003A 10X	Y (360.074 nm)	1.00	0.37	469333.92
	R2401333-003A 10X	Y_R (360.074 nm)	1.00	0.36	468236.48
	R2401333-003A 10X	Zn (213.857 nm)	0.5987	0.10	33081.2232
2/22/2024 19:56:36	R2401333-003L 50X	Ag (328.068 nm)	-0.0001 u	> 100.00	-271.0392
	R2401333-003L 50X	Al (237.312 nm)	1.6955	0.32	4256.2012
	R2401333-003L 50X	As (188.980 nm)	0.0022	75.60	-11.0179
	R2401333-003L 50X	B (249.772 nm)	0.0046	7.02	190.5961
	R2401333-003L 50X	Ba (230.424 nm)	0.0136	0.52	653.6695
	R2401333-003L 50X	Be (313.107 nm)	0.0001	7.51	-119.8996
	R2401333-003L 50X	Ca (317.933 nm)	0.2927	0.17	14084.4416
	R2401333-003L 50X	Cd (214.439 nm)	0.0001	42.68	8.4592
	R2401333-003L 50X	Co (230.786 nm)	0.0020	2.22	84.6417
	R2401333-003L 50X	Cr (267.716 nm)	0.0041	2.52	154.7569
	R2401333-003L 50X	Cu (327.395 nm)	0.0042	5.50	109.6803
	R2401333-003L 50X	Fe (234.350 nm)	2.9849	0.20	64317.9731
	R2401333-003L 50X	K (766.491 nm)	0.1447	26.44	-136.3813
	R2401333-003L 50X	Mg (279.078 nm)	0.6731	0.36	2027.4337
	R2401333-003L 50X	Mn (257.610 nm)	0.0511	0.07	16640.0893
	R2401333-003L 50X	Mo (202.032 nm)	0.0032	19.76	17.7721
	R2401333-003L 50X	Na (588.995 nm)	0.0390	4.69	-9981.0946
	R2401333-003L 50X	Ni (230.299 nm)	0.0119	5.19	217.6724
	R2401333-003L 50X	Pb (220.353 nm)	0.0156	0.46	96.0147
	R2401333-003L 50X	Sb (217.582 nm)	0.0044	27.58	23.1227
	R2401333-003L 50X	Se (196.026 nm)	0.0040	24.46	2.6778
	R2401333-003L 50X	Sn (189.925 nm)	0.0042	31.13	19.5336
	R2401333-003L 50X	Sr (216.596 nm)	0.0023	5.42	-2.7607
	R2401333-003L 50X	Ti (336.122 nm)	0.0658	1.17	8106.3476
	R2401333-003L 50X	Tl (190.794 nm)	0.0006	90.98	2.1386
	R2401333-003L 50X	V (292.401 nm)	0.0044	1.22	114.8953
	R2401333-003L 50X	Y (360.074 nm)	1.02	0.31	478631.65
	R2401333-003L 50X	Y_R (360.074 nm)	1.02	0.31	477335.88
	R2401333-003L 50X	Zn (213.857 nm)	0.0169	0.39	884.9732
2/22/2024 19:59:50	R2401334-001 10X	Ag (328.068 nm)	-0.0001 u	87.70	-267.1225
	R2401334-001 10X	Al (237.312 nm)	7.4376	0.48	18443.5632
	R2401334-001 10X	As (188.980 nm)	0.0067	10.21	-3.1496
	R2401334-001 10X	B (249.772 nm)	0.0248	1.15	856.1441
	R2401334-001 10X	Ba (230.424 nm)	0.0714	0.20	3454.4899
	R2401334-001 10X	Be (313.107 nm)	0.0003	2.85	128.7899

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401334-001 10X	Ca (317.933 nm)	11.7485	0.30	454069.7582
	R2401334-001 10X	Cd (214.439 nm)	0.0006	17.00	41.2258
	R2401334-001 10X	Co (230.786 nm)	0.0071	3.18	162.9759
	R2401334-001 10X	Cr (267.716 nm)	0.0146	0.88	610.6724
	R2401334-001 10X	Cu (327.395 nm)	0.0271	0.58	921.1750
	R2401334-001 10X	Fe (234.350 nm)	17.6524 o	0.18	379516.2678
	R2401334-001 10X	K (766.491 nm)	0.6814	5.70	395.6981
	R2401334-001 10X	Mg (279.078 nm)	4.8587	0.32	14753.7069
	R2401334-001 10X	Mn (257.610 nm)	0.4241	0.33	138287.3918
	R2401334-001 10X	Mo (202.032 nm)	0.0010	20.25	0.7321
	R2401334-001 10X	Na (588.995 nm)	0.2225	2.16	-7963.6459
	R2401334-001 10X	Ni (230.299 nm)	0.0192	4.44	305.9244
	R2401334-001 10X	Pb (220.353 nm)	0.0863	0.82	481.5715
	R2401334-001 10X	Sb (217.582 nm)	0.0004 u	> 100.00	13.6347
	R2401334-001 10X	Se (196.026 nm)	0.0039	63.85	2.6274
	R2401334-001 10X	Sn (189.925 nm)	0.0046	12.69	20.8091
	R2401334-001 10X	Sr (216.596 nm)	0.0232	0.83	400.4230
	R2401334-001 10X	Ti (336.122 nm)	0.0513	0.53	6278.5012
	R2401334-001 10X	Tl (190.794 nm)	0.0009	51.75	2.4816
	R2401334-001 10X	V (292.401 nm)	0.0206	0.78	751.6360
	R2401334-001 10X	Y (360.074 nm)	1.01	0.31	475110.93
	R2401334-001 10X	Y_R (360.074 nm)	1.01	0.31	473908.33
	R2401334-001 10X	Zn (213.857 nm)	0.1168	0.32	6411.5272
2/22/2024 20:03:04	R2401334-003 10X	Ag (328.068 nm)	0.0007	6.50	-222.8528
	R2401334-003 10X	Al (237.312 nm)	5.8585	0.80	14541.9381
	R2401334-003 10X	As (188.980 nm)	0.0587	5.91	88.7570
	R2401334-003 10X	B (249.772 nm)	0.0293	1.20	1002.8941
	R2401334-003 10X	Ba (230.424 nm)	0.1340	0.55	6483.2640
	R2401334-003 10X	Be (313.107 nm)	0.0003	2.97	138.1002
	R2401334-003 10X	Ca (317.933 nm)	5.1123	0.59	199192.5131
	R2401334-003 10X	Cd (214.439 nm)	0.0074	0.94	481.8935
	R2401334-003 10X	Co (230.786 nm)	0.0053	4.12	135.4319
	R2401334-003 10X	Cr (267.716 nm)	0.0111	1.51	455.5523
	R2401334-003 10X	Cu (327.395 nm)	0.0497	0.91	1722.2953
	R2401334-003 10X	Fe (234.350 nm)	15.1296 o	0.47	325302.9140
	R2401334-003 10X	K (766.491 nm)	0.6698	2.02	384.1888
	R2401334-003 10X	Mg (279.078 nm)	1.8007	0.73	5455.8110
	R2401334-003 10X	Mn (257.610 nm)	0.2832	0.68	92319.9427
	R2401334-003 10X	Mo (202.032 nm)	0.0007	34.80	-1.7543
	R2401334-003 10X	Na (588.995 nm)	0.1455	2.41	-8810.3057
	R2401334-003 10X	Ni (230.299 nm)	0.0133	2.02	234.7659
	R2401334-003 10X	Pb (220.353 nm)	1.8829 o	0.54	10278.9288
	R2401334-003 10X	Sb (217.582 nm)	0.0029	48.38	19.6237
	R2401334-003 10X	Se (196.026 nm)	0.0040	21.10	2.6936
	R2401334-003 10X	Sn (189.925 nm)	0.0252	1.21	81.2764
	R2401334-003 10X	Sr (216.596 nm)	0.0409	0.85	744.3631
	R2401334-003 10X	Ti (336.122 nm)	0.0770	0.54	9509.1744
	R2401334-003 10X	Tl (190.794 nm)	-0.0005 u	54.07	0.8108
	R2401334-003 10X	V (292.401 nm)	0.0121	0.53	418.9802
	R2401334-003 10X	Y (360.074 nm)	1.01	0.33	477416.78
	R2401334-003 10X	Y_R (360.074 nm)	1.01	0.34	476214.12
	R2401334-003 10X	Zn (213.857 nm)	0.2110	0.53	11629.0972
2/22/2024 20:06:19	Continuing Calibration Verification	Ag (328.068 nm)	0.5173	0.21	30044.0626
	Continuing Calibration Verification	Al (237.312 nm)	10.1179	0.20	25065.9416
	Continuing Calibration Verification	As (188.980 nm)	0.9892	0.41	1733.2986
	Continuing Calibration Verification	B (249.772 nm)	2.4384	0.10	80255.3534
	Continuing Calibration Verification	Ba (230.424 nm)	10.3410	0.24	500752.9843

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	Be (313.107 nm)	0.2422	0.10	264710.0543
	Continuing Calibration Verification	Ca (317.933 nm)	25.6848	0.15	989319.4197
	Continuing Calibration Verification	Cd (214.439 nm)	0.5132	0.07	33001.9900
	Continuing Calibration Verification	Co (230.786 nm)	2.5475	0.24	39748.3079
	Continuing Calibration Verification	Cr (267.716 nm)	0.5157	0.05	22368.3436
	Continuing Calibration Verification	Cu (327.395 nm)	1.2381	0.35	43798.2744
	Continuing Calibration Verification	Fe (234.350 nm)	5.0723	0.09	109175.1399
	Continuing Calibration Verification	K (766.491 nm)	24.1861	0.38	23699.1154
	Continuing Calibration Verification	Mg (279.078 nm)	25.1429	0.13	76427.7511
	Continuing Calibration Verification	Mn (257.610 nm)	0.7487	0.11	244113.2299
	Continuing Calibration Verification	Mo (202.032 nm)	2.5464	0.51	20316.2743
	Continuing Calibration Verification	Na (588.995 nm)	25.0523	0.42	264932.1213
	Continuing Calibration Verification	Ni (230.299 nm)	2.1066	0.14	25430.4069
	Continuing Calibration Verification	Pb (220.353 nm)	0.5148	0.30	2817.9337
	Continuing Calibration Verification	Sb (217.582 nm)	4.9639	0.22	11805.6631
	Continuing Calibration Verification	Se (196.026 nm)	0.4869	1.81	373.8562
	Continuing Calibration Verification	Sn (189.925 nm)	5.0794	0.08	14921.4470
	Continuing Calibration Verification	Sr (216.596 nm)	2.5152	0.15	48661.2552
	Continuing Calibration Verification	Ti (336.122 nm)	2.5203	0.05	317102.4995
	Continuing Calibration Verification	Tl (190.794 nm)	1.0375	0.13	1305.6521
	Continuing Calibration Verification	V (292.401 nm)	2.5162	0.07	98613.8189
	Continuing Calibration Verification	Y (360.074 nm)	0.96	0.54	454114.10
	Continuing Calibration Verification	Y_R (360.074 nm)	0.96	0.55	453264.87
	Continuing Calibration Verification	Zn (213.857 nm)	0.9927	0.05	54887.0177
2/22/2024 20:09:32	Continuing Calibration Blank	Ag (328.068 nm)	0.0001 u	> 100.00	-258.5454
	Continuing Calibration Blank	Al (237.312 nm)	0.0003 u	> 100.00	67.6095
	Continuing Calibration Blank	As (188.980 nm)	0.0026	45.79	-10.3808
	Continuing Calibration Blank	B (249.772 nm)	0.0016	7.98	92.7182
	Continuing Calibration Blank	Ba (230.424 nm)	0.0007	3.61	28.2093
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	27.84	-189.5886
	Continuing Calibration Blank	Ca (317.933 nm)	0.0012	7.25	2889.4801
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	3.3945
	Continuing Calibration Blank	Co (230.786 nm)	0.0003	66.53	57.5631
	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u	> 100.00	-23.7870
	Continuing Calibration Blank	Cu (327.395 nm)	0.0000 u	> 100.00	-36.9952
	Continuing Calibration Blank	Fe (234.350 nm)	0.0055	19.06	292.5937
	Continuing Calibration Blank	K (766.491 nm)	0.0067 u	> 100.00	-273.2421
	Continuing Calibration Blank	Mg (279.078 nm)	0.0000 u	> 100.00	-19.1488
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000	8.86	1.0556
	Continuing Calibration Blank	Mo (202.032 nm)	0.0066	6.20	45.0109
	Continuing Calibration Blank	Na (588.995 nm)	0.0164	32.37	-10229.0591
	Continuing Calibration Blank	Ni (230.299 nm)	0.0001 u	> 100.00	75.8044
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0001 u	> 100.00	10.0481
	Continuing Calibration Blank	Sb (217.582 nm)	0.0113 Z 0.004 u	16.10	39.5109 Z
	Continuing Calibration Blank	Se (196.026 nm)	-0.0016 u	> 100.00	-1.5968
	Continuing Calibration Blank	Sn (189.925 nm)	0.0021	22.36	13.2792
	Continuing Calibration Blank	Sr (216.596 nm)	0.0001 u	> 100.00	-46.5644
	Continuing Calibration Blank	Ti (336.122 nm)	0.0071	25.97	720.1494
	Continuing Calibration Blank	Tl (190.794 nm)	-0.0004 u	> 100.00	0.8547
	Continuing Calibration Blank	V (292.401 nm)	-0.0001 u	> 100.00	-58.6861
	Continuing Calibration Blank	Y (360.074 nm)	1.01	0.21	475791.75
	Continuing Calibration Blank	Y_R (360.074 nm)	1.01	0.21	475036.92
	Continuing Calibration Blank	Zn (213.857 nm)	0.0002	5.92	-38.4572
2/22/2024 20:12:46	Contract Required Detection Limit	Ag (328.068 nm)	0.0101	2.03	327.1706
	Contract Required Detection Limit	Al (237.312 nm)	0.1977	1.38	555.3267
	Contract Required Detection Limit	As (188.980 nm)	0.0222	10.46	24.2239
	Contract Required Detection Limit	B (249.772 nm)	0.1924	0.14	6369.0111

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Contract Required Detection Limit	Ba (230.424 nm)	0.2085	0.21	10091.2563
	Contract Required Detection Limit	Be (313.107 nm)	0.0049	0.14	5133.1217
	Contract Required Detection Limit	Ca (317.933 nm)	1.0211	0.06	42058.7239
	Contract Required Detection Limit	Cd (214.439 nm)	0.0104	0.38	673.5533
	Contract Required Detection Limit	Co (230.786 nm)	0.0511	0.33	849.1187
	Contract Required Detection Limit	Cr (267.716 nm)	0.0102	0.73	419.6937
	Contract Required Detection Limit	Cu (327.395 nm)	0.0251	0.71	851.3868
	Contract Required Detection Limit	Fe (234.350 nm)	0.1112	0.61	2562.1894
	Contract Required Detection Limit	K (766.491 nm)	0.9049	2.57	617.2717
	Contract Required Detection Limit	Mg (279.078 nm)	0.9791	0.12	2957.6857
	Contract Required Detection Limit	Mn (257.610 nm)	0.0154	0.12	5017.0007
	Contract Required Detection Limit	Mo (202.032 nm)	0.0252	2.12	193.4457
	Contract Required Detection Limit	Na (588.995 nm)	0.9626	0.56	170.7639
	Contract Required Detection Limit	Ni (230.299 nm)	0.0413	0.81	571.8383
	Contract Required Detection Limit	Pb (220.353 nm)	0.0096	14.24	63.2273
	Contract Required Detection Limit	Sb (217.582 nm)	0.0604	0.78	156.3584
	Contract Required Detection Limit	Se (196.026 nm)	0.0093	30.75	6.7637
	Contract Required Detection Limit	Sn (189.925 nm)	0.5033	0.17	1484.9894
	Contract Required Detection Limit	Sr (216.596 nm)	0.1017	0.03	1920.7855
	Contract Required Detection Limit	Ti (336.122 nm)	0.0516	1.96	6315.5831
	Contract Required Detection Limit	Tl (190.794 nm)	0.0176	7.89	23.5045
	Contract Required Detection Limit	V (292.401 nm)	0.0494	0.30	1880.0023
	Contract Required Detection Limit	Y (360.074 nm)	1.00	0.31	472944.09
	Contract Required Detection Limit	Y_R (360.074 nm)	1.00	0.31	472152.45
	Contract Required Detection Limit	Zn (213.857 nm)	0.0195	0.31	1028.7464
2/22/2024 20:16:00	Interference Check Solution A	Ag (328.068 nm)	-0.0003 u	45.42	-277.4400
	Interference Check Solution A	Al (237.312 nm)	259.1846 o	0.07	640452.3367
	Interference Check Solution A	As (188.980 nm)	-0.0051 Ku +/-0.01	40.39	-23.9043 K
	Interference Check Solution A	B (249.772 nm)	0.1107	0.18	3681.8982
	Interference Check Solution A	Ba (230.424 nm)	0.0009	16.66	37.8311
	Interference Check Solution A	Be (313.107 nm)	0.0000 u	49.88	-219.4653
	Interference Check Solution A	Ca (317.933 nm)	243.4337 o	0.27	9352405.9213
	Interference Check Solution A	Cd (214.439 nm)	-0.0011 Ku +/- 0.002	12.30	-66.1486 K
	Interference Check Solution A	Co (230.786 nm)	0.0021	10.60	85.4491
	Interference Check Solution A	Cr (267.716 nm)	0.0010	14.56	20.2906
	Interference Check Solution A	Cu (327.395 nm)	0.0007	32.41	-12.1200
	Interference Check Solution A	Fe (234.350 nm)	95.6117 o	0.21	2054829.0488
	Interference Check Solution A	K (766.491 nm)	-0.0376 u	> 100.00	-317.1903
	Interference Check Solution A	Mg (279.078 nm)	264.7951 o	0.15	805090.4343
	Interference Check Solution A	Mn (257.610 nm)	0.0014	0.56	465.7598
	Interference Check Solution A	Mo (202.032 nm)	-0.0007 u	59.51	-12.7008
	Interference Check Solution A	Na (588.995 nm)	-0.0575 u	6.43	-11040.8310
	Interference Check Solution A	Ni (230.299 nm)	0.0019	22.26	97.0389
	Interference Check Solution A	Pb (220.353 nm)	0.0016	22.31	19.6273
	Interference Check Solution A	Sb (217.582 nm)	-0.0017 u	> 100.00	8.8419
	Interference Check Solution A	Se (196.026 nm)	-0.0036 u	87.24	-3.1804
	Interference Check Solution A	Sn (189.925 nm)	0.0038	30.62	18.2582
	Interference Check Solution A	Sr (216.596 nm)	0.0100	2.51	145.0083
	Interference Check Solution A	Ti (336.122 nm)	0.0033	22.27	236.4727
	Interference Check Solution A	Tl (190.794 nm)	0.0018	> 100.00	3.6199
	Interference Check Solution A	V (292.401 nm)	0.0020	3.00	21.0222
	Interference Check Solution A	Y (360.074 nm)	0.89	0.39	417066.56
	Interference Check Solution A	Y_R (360.074 nm)	0.89	0.39	416188.47
	Interference Check Solution A	Zn (213.857 nm)	0.0133 K +/-0.02	0.44	685.3593 K
2/22/2024 20:19:13	Interference Check Solution AB	Ag (328.068 nm)	0.2074	0.01	11890.4511
	Interference Check Solution AB	Al (237.312 nm)	260.9122 o	0.06	644720.6558
	Interference Check Solution AB	As (188.980 nm)	0.0937	0.31	150.6446

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Interference Check Solution AB	B (249.772 nm)	0.1252	0.24	4159.1411
	Interference Check Solution AB	Ba (230.424 nm)	0.5342	0.10	25863.7824
	Interference Check Solution AB	Be (313.107 nm)	0.4872	0.14	532628.2695
	Interference Check Solution AB	Ca (317.933 nm)	244.5154 o	0.23	9393948.4552
	Interference Check Solution AB	Cd (214.439 nm)	0.9907	0.07	63702.2664
	Interference Check Solution AB	Co (230.786 nm)	0.4937	0.14	7745.2265
	Interference Check Solution AB	Cr (267.716 nm)	0.5132	0.15	22260.2442
	Interference Check Solution AB	Cu (327.395 nm)	0.5361	0.12	18944.4990
	Interference Check Solution AB	Fe (234.350 nm)	96.2087 o	0.14	2067658.4986
	Interference Check Solution AB	K (766.491 nm)	-0.0199 u	> 100.00	-299.6047
	Interference Check Solution AB	Mg (279.078 nm)	266.5678 o	0.09	810480.1841
	Interference Check Solution AB	Mn (257.610 nm)	0.4986	0.05	162582.9877
	Interference Check Solution AB	Mo (202.032 nm)	-0.0013 u	53.14	-17.4949
	Interference Check Solution AB	Na (588.995 nm)	-0.0549 u	2.84	-11013.1896
	Interference Check Solution AB	Ni (230.299 nm)	1.0073	0.18	12198.4336
	Interference Check Solution AB	Pb (220.353 nm)	0.0520	2.31	294.1519
	Interference Check Solution AB	Sb (217.582 nm)	0.6130	0.75	1469.0002
	Interference Check Solution AB	Se (196.026 nm)	0.0455	3.89	34.6021
	Interference Check Solution AB	Sn (189.925 nm)	0.0031	21.46	16.2909
	Interference Check Solution AB	Sr (216.596 nm)	0.0103	1.29	152.1116
	Interference Check Solution AB	Ti (336.122 nm)	0.0028	19.27	173.2829
	Interference Check Solution AB	Tl (190.794 nm)	0.1012	3.07	128.5927
	Interference Check Solution AB	V (292.401 nm)	0.5125	0.05	20039.3413
	Interference Check Solution AB	Y (360.074 nm)	0.89	0.29	417148.32
	Interference Check Solution AB	Y_R (360.074 nm)	0.89	0.29	416295.07
	Interference Check Solution AB	Zn (213.857 nm)	1.0317	0.02	57048.6821
2/22/2024 20:22:27	Continuing Calibration Verification	Ag (328.068 nm)	0.5168	0.14	30019.2445
	Continuing Calibration Verification	Al (237.312 nm)	10.1230	0.19	25078.5397
	Continuing Calibration Verification	As (188.980 nm)	0.9835	0.05	1723.2433
	Continuing Calibration Verification	B (249.772 nm)	2.4333	0.09	80087.4297
	Continuing Calibration Verification	Ba (230.424 nm)	10.3158	0.13	499534.3799
	Continuing Calibration Verification	Be (313.107 nm)	0.2424	0.06	264892.5192
	Continuing Calibration Verification	Ca (317.933 nm)	25.7208	0.17	990700.7049
	Continuing Calibration Verification	Cd (214.439 nm)	0.5120	0.06	32922.6103
	Continuing Calibration Verification	Co (230.786 nm)	2.5451	0.28	39711.7902
	Continuing Calibration Verification	Cr (267.716 nm)	0.5150	0.08	22338.9331
	Continuing Calibration Verification	Cu (327.395 nm)	1.2410	0.57	43901.9149
	Continuing Calibration Verification	Fe (234.350 nm)	5.0738	0.12	109207.4900
	Continuing Calibration Verification	K (766.491 nm)	24.1990	0.15	23711.8599
	Continuing Calibration Verification	Mg (279.078 nm)	25.1568	0.12	76469.9226
	Continuing Calibration Verification	Mn (257.610 nm)	0.7469	0.08	243525.8526
	Continuing Calibration Verification	Mo (202.032 nm)	2.5424	0.49	20283.7077
	Continuing Calibration Verification	Na (588.995 nm)	25.0552	0.30	264963.2865
	Continuing Calibration Verification	Ni (230.299 nm)	2.0980	0.14	25326.7501
	Continuing Calibration Verification	Pb (220.353 nm)	0.5129	0.35	2807.9709
	Continuing Calibration Verification	Sb (217.582 nm)	4.9514	0.19	11776.0837
	Continuing Calibration Verification	Se (196.026 nm)	0.4844	0.25	371.8801
	Continuing Calibration Verification	Sn (189.925 nm)	5.0650	0.16	14879.3234
	Continuing Calibration Verification	Sr (216.596 nm)	2.5116	0.08	48591.2364
	Continuing Calibration Verification	Ti (336.122 nm)	2.5181	0.06	316829.9103
	Continuing Calibration Verification	Tl (190.794 nm)	1.0333	0.40	1300.3268
	Continuing Calibration Verification	V (292.401 nm)	2.5154	0.10	98581.7058
	Continuing Calibration Verification	Y (360.074 nm)	0.97	0.43	456377.54
	Continuing Calibration Verification	Y_R (360.074 nm)	0.97	0.43	455548.30
	Continuing Calibration Verification	Zn (213.857 nm)	0.9885	0.34	54658.0678
2/22/2024 20:25:41	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u	> 100.00	-260.0757
	Continuing Calibration Blank	Al (237.312 nm)	0.0008 u	> 100.00	68.8920

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	As (188.980 nm)	0.0035	75.17	-8.7800
	Continuing Calibration Blank	B (249.772 nm)	0.0017	28.83	95.0739
	Continuing Calibration Blank	Ba (230.424 nm)	0.0006	22.42	23.2503
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	62.10	-187.5152
	Continuing Calibration Blank	Ca (317.933 nm)	0.0019	2.59	2916.7360
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	2.7241
	Continuing Calibration Blank	Co (230.786 nm)	0.0002 u	> 100.00	56.4412
	Continuing Calibration Blank	Cr (267.716 nm)	0.0001	38.02	-18.1156
	Continuing Calibration Blank	Cu (327.395 nm)	0.0001 u	> 100.00	-33.2256
	Continuing Calibration Blank	Fe (234.350 nm)	0.0061	22.03	303.7920
	Continuing Calibration Blank	K (766.491 nm)	-0.0009 u	> 100.00	-280.7924
	Continuing Calibration Blank	Mg (279.078 nm)	0.0011	31.39	-15.9150
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000	23.15	6.0539
	Continuing Calibration Blank	Mo (202.032 nm)	0.0066	6.19	45.2688
	Continuing Calibration Blank	Na (588.995 nm)	0.0173	3.49	-10219.3493
	Continuing Calibration Blank	Ni (230.299 nm)	0.0004 u	> 100.00	79.4835
	Continuing Calibration Blank	Pb (220.353 nm)	0.0003 u	> 100.00	12.5802
	Continuing Calibration Blank	Sb (217.582 nm)	0.0111 Z 0.064	14.51	39.1037 Z
	Continuing Calibration Blank	Se (196.026 nm)	0.0016 u	> 100.00	0.8491
	Continuing Calibration Blank	Sn (189.925 nm)	0.0026	9.99	14.8119
	Continuing Calibration Blank	Sr (216.596 nm)	0.0003	85.50	-42.8510
	Continuing Calibration Blank	Ti (336.122 nm)	0.0070	27.18	705.6899
	Continuing Calibration Blank	Tl (190.794 nm)	0.0002 u	> 100.00	1.6890
	Continuing Calibration Blank	V (292.401 nm)	0.0001	85.95	-50.7605
	Continuing Calibration Blank	Y (360.074 nm)	1.01	0.22	477259.63
	Continuing Calibration Blank	Y_R (360.074 nm)	1.01	0.22	476419.99
	Continuing Calibration Blank	Zn (213.857 nm)	0.0002	20.81	-36.3923

Summary Calibration Results

Element and wavelength	Type	Units	Equation	Correlation Coefficient	%RSE
Ag (328.068 nm)	Analyte	ppm	58590.41316671 * Concentration - 262.46276049	0.99999	4.76146213
Al (237.312 nm)	Analyte	ppm	2470.76925911 * Concentration + 66.91815962	0.99999	2.88234747
As (188.980 nm)	Analyte	ppm	1767.35298384 * Concentration - 14.97359791	0.99997	15.988207 60
B (249.772 nm)	Analyte	ppm	32896.96987887 * Concentration + 39.30184072	0.99998	4.39597564
Ba (230.424 nm)	Analyte	ppm	48424.50171871 * Concentration - 4.38694920	0.99999	4.90563149
Be (313.107 nm)	Analyte	ppm	1093679.38542668 * Concentration - 207.51231398	1.00000	3.31197014
Ca (317.933 nm)	Analyte	ppm	38407.01196504 * Concentration + 2843.23606046	1.00000	5.50857175
Cd (214.439 nm)	Analyte	ppm	64295.09875432 * Concentration + 2.99651787	1.00000	20.446895 42
Co (230.786 nm)	Analyte	ppm	15582.32307318 * Concentration + 52.88024769	1.00000	4.43404978
Cr (267.716 nm)	Analyte	ppm	43423.82969595 * Concentration - 24.52240106	1.00000	7.98640366
Cu (327.395 nm)	Analyte	ppm	35406.76467812 * Concentration - 38.17957035	0.99999	3.47996514
Fe (234.350 nm)	Analyte	ppm	21489.58198301 * Concentration + 173.56813011	1.00000	5.64686796
K (766.491 nm)	Analyte	ppm	991.43643426 * Concentration - 279.87109509	0.99995	9.53440015
Mg (279.078 nm)	Analyte	ppm	3040.50057041 * Concentration - 19.23891793	0.99999	2.90410163
Mn (257.610 nm)	Analyte	ppm	326063.39520080 * Concentration - 5.83161507	1.00000	3.89324128
Mo (202.032 nm)	Analyte	ppm	7981.20089039 * Concentration - 7.38156060	0.99999	3.74539411
Na (588.995 nm)	Analyte	ppm	10990.64914645 * Concentration - 10409.34286652	0.99999	3.29258703
Ni (230.299 nm)	Analyte	ppm	12036.64445702 * Concentration + 74.29885983	1.00000	7.33195027
Pb (220.353 nm)	Analyte	ppm	5453.26184534 * Concentration + 10.81838907	0.99999	15.417614 29
Sb (217.582 nm)	Analyte	ppm	2375.74779487 * Concentration + 12.78362954	0.99998	3.15352114
Se (196.026 nm)	Analyte	ppm	768.53797501 * Concentration - 0.37594436	0.99998	7.52310760
Sn (189.925 nm)	Analyte	ppm	2936.24399997 * Concentration + 7.17517051	1.00000	1.29760006
Sr (216.596 nm)	Analyte	ppm	19365.63292322 * Concentration - 48.05041906	1.00000	4.99696819
Ti (336.122 nm)	Analyte	ppm	125892.29816891 * Concentration - 179.19004780	1.00000	2.48923680
Tl (190.794 nm)	Analyte	ppm	1257.07006269 * Concentration + 1.38274381	1.00000	27.508224 39
V (292.401 nm)	Analyte	ppm	39214.05901835 * Concentration - 56.55029145	0.99999	3.78272326
Zn (213.857 nm)	Analyte	ppm	55341.93758069 * Concentration - 49.92805447	0.99999	5.21642127

Detailed Calibration Results

Ag (328.068 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-262.4628	0.0000	0.0000	N/A
Standard 3	349.2764	0.0100	0.0104	4.4094
Standard 4	11245.2373	0.2000	0.1964	1.7954
Standard 5	58369.7686	1.0000	1.0007	0.0714

Al (237.312 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	66.9182	0.0000	0.0000	N/A
Standard 2	308.0485	0.1000	0.0976	2.4068
Standard 4	9793.3769	4.0000	3.9366	1.5847
Standard 5	49513.6567	20.0000	20.0127	0.0634

As (188.980 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-14.9736	0.0000	0.0000	N/A
Standard 1	-4.3100	0.0050	0.0060	20.6732

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Standard 2	1.2261	0.0100	0.0092	8.3391
Standard 4	665.2331	0.4000	0.3849	3.7817
Standard 5	3525.0821	2.0000	2.0030	0.1513

B (249.772 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	39.3018	0.0000	0.0000	N/A
Standard 2	6425.3059	0.2000	0.1941	2.9393
Standard 4	31861.8625	1.0000	0.9673	3.2660
Standard 5	164746.7687	5.0000	5.0068	0.1353

Ba (230.424 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-4.3869	0.0000	0.0000	N/A
Standard 1	1006.0042	0.0200	0.0209	4.3264
Standard 4	198169.1149	4.0000	4.0924	2.3106
Standard 5	967590.5065	20.0000	19.9815	0.0924

Be (313.107 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-207.5123	0.0000	0.0000	N/A
Standard 2	2935.7292	0.0030	0.0029	4.1998
Standard 3	5348.3776	0.0050	0.0051	1.6000
Standard 4	107718.8544	0.1000	0.0987	1.3181
Standard 5	546920.4466	0.5000	0.5003	0.0527

Ca (317.933 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	2843.2361	0.0000	0.0000	N/A
Standard 2	42084.7428	1.0000	1.0217	2.1728
Standard 3	23469.8590	0.5000	0.5371	7.4107
Standard 4	390843.8685	10.0000	10.1023	1.0234
Standard 5	1922376.8107	50.0000	49.9787	0.0425

Cd (214.439 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	2.9965	0.0000	0.0000	N/A
Standard 1	85.5695	0.0010	0.0013	28.4280
Standard 2	341.2680	0.0050	0.0053	5.2247
Standard 4	12969.5720	0.2000	0.2017	0.8364
Standard 5	64276.4819	1.0000	0.9997	0.0336

Co (230.786 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	52.8802	0.0000	0.0000	N/A
Standard 1	100.9890	0.0030	0.0031	2.9130
Standard 3	874.0692	0.0500	0.0527	5.4001
Standard 4	15836.7186	1.0000	1.0129	1.2932
Standard 5	77923.7710	5.0000	4.9974	0.0523

Cr (267.716 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-24.5224	0.0000	0.0000	N/A
Standard 1	205.7583	0.0050	0.0053	6.0619
Standard 3	451.0892	0.0100	0.0110	9.5278
Standard 4	8677.5240	0.2000	0.2004	0.1990
Standard 5	43395.3717	1.0000	0.9999	0.0091

Cu (327.395 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-38.1796	0.0000	0.0000	N/A
Standard 1	326.4832	0.0100	0.0103	2.9924
Standard 2	694.6347	0.0200	0.0207	3.4851
Standard 4	17352.7393	0.5000	0.4912	1.7650
Standard 5	88540.9850	2.5000	2.5018	0.0703

Fe (234.350 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	173.5681	0.0000	0.0000	N/A
Standard 3	2443.8752	0.1000	0.1056	5.6469
Standard 4	43152.6961	2.0000	2.0000	0.0001
Standard 5	215068.1817	10.0000	9.9999	0.0006

K (766.491 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-279.8711	0.0000	0.0000	N/A
Standard 2	1660.1310	2.0000	1.9568	2.1621
Standard 3	154.8108	0.5000	0.4384	12.3127
Standard 4	9133.9450	10.0000	9.4951	5.0487
Standard 5	49394.3855	50.0000	50.1033	0.2066

Mg (279.078 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-19.2389	0.0000	0.0000	N/A
Standard 2	3013.2613	1.0000	0.9974	0.2631
Standard 3	1557.5930	0.5000	0.5186	3.7219
Standard 4	29864.2999	10.0000	9.8285	1.7151
Standard 5	152109.6772	50.0000	50.0342	0.0683

Mn (257.610 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-5.8316	0.0000	0.0000	N/A
Standard 1	3381.0309	0.0100	0.0104	3.8713
Standard 4	98216.6972	0.3000	0.3012	0.4125
Standard 5	489007.7176	1.5000	1.4997	0.0167

Mo (202.032 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-7.3816	0.0000	0.0000	N/A
Standard 1	186.1471	0.0250	0.0242	3.0078
Standard 4	7795.8307	1.0000	0.9777	2.2301
Standard 5	39934.2506	5.0000	5.0045	0.0893

Na (588.995 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-10409.3429	0.0000	0.0000	N/A
Standard 2	194.3456	1.0000	0.9648	3.5208
Standard 3	-4785.6639	0.5000	0.5117	2.3357
Standard 4	97347.8366	10.0000	9.8044	1.9556
Standard 5	539559.4325	50.0000	50.0397	0.0794

Ni (230.299 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	74.2989	0.0000	0.0000	N/A
Standard 3	590.4572	0.0400	0.0429	7.2056
Standard 4	9834.0032	0.8000	0.8108	1.3541
Standard 5	48194.4520	4.0000	3.9978	0.0549

Pb (220.353 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	10.8184	0.0000	0.0000	N/A
Standard 1	32.3223	0.0050	0.0039	21.1339
Standard 2	296.8126	0.0500	0.0524	4.8892
Standard 4	1125.4874	0.2000	0.2044	2.2020
Standard 5	5458.6392	1.0000	0.9990	0.0998

Sb (217.582 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	12.7836	0.0000	0.0000	N/A
Standard 1	36.3189	0.0100	0.0099	0.9354
Standard 2	150.8642	0.0600	0.0581	3.1318
Standard 4	4620.2264	2.0000	1.9394	3.0317
Standard 5	23799.0992	10.0000	10.0121	0.1214

Se (196.026 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-0.3759	0.0000	0.0000	N/A
Standard 2	6.7802	0.0100	0.0093	6.8864
Standard 4	148.6796	0.2000	0.1939	3.0266
Standard 5	769.0977	1.0000	1.0012	0.1218

Sn (189.925 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	7.1752	0.0000	0.0000	N/A
Standard 2	1491.1500	0.5000	0.5054	1.0798
Standard 4	5921.8800	2.0000	2.0144	0.7189
Standard 5	29360.3792	10.0000	9.9969	0.0315

Sr (216.596 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-48.0504	0.0000	0.0000	N/A
Standard 3	967.6382	0.0500	0.0524	4.8960
Standard 4	19510.9856	1.0000	1.0100	0.9987
Standard 5	96740.9595	5.0000	4.9980	0.0404

Ti (336.122 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-179.1900	0.0000	0.0000	N/A
Standard 3	5982.7705	0.0500	0.0489	2.1074
Standard 4	124046.6481	1.0000	0.9868	1.3237
Standard 5	629616.9193	5.0000	5.0027	0.0532

Tl (190.794 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	1.3827	0.0000	0.0000	N/A
Standard 1	9.1912	0.0100	0.0062	37.8834
Standard 3	24.3111	0.0200	0.0182	8.8022
Standard 4	499.7918	0.4000	0.3965	0.8788
Standard 5	2516.4526	2.0000	2.0007	0.0370

V (292.401 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-56.5503	0.0000	0.0000	N/A
Standard 1	55.6573	0.0030	0.0029	4.6196
Standard 3	1861.1559	0.0500	0.0489	2.1929
Standard 4	38541.8665	1.0000	0.9843	1.5700
Standard 5	196137.3065	5.0000	5.0032	0.0630

Zn (213.857 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-49.9281	0.0000	0.0000	N/A
Standard 1	492.0566	0.0100	0.0098	2.0662
Standard 3	1133.7567	0.0200	0.0214	6.9428
Standard 4	21777.9738	0.4000	0.3944	1.3953
Standard 5	110695.0105	2.0000	2.0011	0.0552

Created Date/Time	2/22/2024 14:19:39	Software Version	7.6.1.12212
Instrument Name	MY2309CQ22	Firmware Version	5590
File Path	C:\Agilent\ICP Expert\My Results\2024\7FEB22.esws		
Notes			

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
2/23/2024 11:48:28	Continuing Calibration Verification	Ag (328.068 nm)	0.5379	0.15	31252.5591
	Continuing Calibration Verification	Al (237.312 nm)	10.1243	0.02	25081.7951
	Continuing Calibration Verification	As (188.980 nm)	1.0383	0.40	1820.0691
	Continuing Calibration Verification	B (249.772 nm)	2.5419	0.03	83660.1225
	Continuing Calibration Verification	Ba (230.424 nm)	10.4465	0.19	505864.0245
	Continuing Calibration Verification	Be (313.107 nm)	0.2526	0.07	276001.7951
	Continuing Calibration Verification	Ca (317.933 nm)	26.0458	0.11	1003182.7210
	Continuing Calibration Verification	Cd (214.439 nm)	0.5268	0.12	33873.0445
	Continuing Calibration Verification	Co (230.786 nm)	2.6023	0.26	40602.8939
	Continuing Calibration Verification	Cr (267.716 nm)	0.5186	0.10	22495.8252
	Continuing Calibration Verification	Cu (327.395 nm)	1.3142	0.37	46494.1474
	Continuing Calibration Verification	Fe (234.350 nm)	5.0847	0.08	109442.3431
	Continuing Calibration Verification	K (766.491 nm)	25.0636	0.19	24569.0759
	Continuing Calibration Verification	Mg (279.078 nm)	25.2219	0.04	76668.0383
	Continuing Calibration Verification	Mn (257.610 nm)	0.7611	0.06	248163.7253
	Continuing Calibration Verification	Mo (202.032 nm)	2.5606	0.84	20429.3273
	Continuing Calibration Verification	Na (588.995 nm)	26.0297	0.15	275673.9417
	Continuing Calibration Verification	Ni (230.299 nm)	2.1090	0.10	25459.3672
	Continuing Calibration Verification	Pb (220.353 nm)	0.5235	0.23	2865.7611
	Continuing Calibration Verification	Sb (217.582 nm)	5.0134	0.18	11923.4660
	Continuing Calibration Verification	Se (196.026 nm)	0.5110	0.14	392.3152
	Continuing Calibration Verification	Sn (189.925 nm)	5.1953	0.15	15261.9012
	Continuing Calibration Verification	Sr (216.596 nm)	2.5046	0.20	48454.1841
	Continuing Calibration Verification	Ti (336.122 nm)	2.5638	0.06	322583.3421
	Continuing Calibration Verification	Tl (190.794 nm)	1.0699	0.01	1346.3719
	Continuing Calibration Verification	V (292.401 nm)	2.5498	0.06	99930.9445
	Continuing Calibration Verification	Y (360.074 nm)	0.91	0.53	426616.49
	Continuing Calibration Verification	Y_R (360.074 nm)	0.91	0.53	427689.89
	Continuing Calibration Verification	Zn (213.857 nm)	1.0156	0.33	56157.3205
2/23/2024 11:51:41	Continuing Calibration Blank	Ag (328.068 nm)	0.0003	80.21	-247.7813
	Continuing Calibration Blank	Al (237.312 nm)	0.0019 u	> 100.00	71.7089
	Continuing Calibration Blank	As (188.980 nm)	0.0012 u	> 100.00	-12.8930
	Continuing Calibration Blank	B (249.772 nm)	0.0025	4.93	120.0877
	Continuing Calibration Blank	Ba (230.424 nm)	0.0001 u	> 100.00	-1.8164
	Continuing Calibration Blank	Be (313.107 nm)	0.0000 u	36.63	-225.2861
	Continuing Calibration Blank	Ca (317.933 nm)	-0.0062 u	2.64	2605.3918
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	0.5306
	Continuing Calibration Blank	Co (230.786 nm)	0.0000 u	> 100.00	53.2068
	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u	> 100.00	-23.2028
	Continuing Calibration Blank	Cu (327.395 nm)	-0.0002 u	48.20	-45.4641
	Continuing Calibration Blank	Fe (234.350 nm)	0.0038	18.46	254.3951
	Continuing Calibration Blank	K (766.491 nm)	0.1978	7.28	-83.7793
	Continuing Calibration Blank	Mg (279.078 nm)	-0.0016 u	47.85	-24.0428
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000 u	> 100.00	-7.9865
	Continuing Calibration Blank	Mo (202.032 nm)	0.0059	12.60	39.8574
	Continuing Calibration Blank	Na (588.995 nm)	0.0532	2.66	-9825.0507
	Continuing Calibration Blank	Ni (230.299 nm)	0.0009	53.71	85.3626
	Continuing Calibration Blank	Pb (220.353 nm)	0.0005	> 100.00	13.4620
	Continuing Calibration Blank	Sb (217.582 nm)	0.0045	33.63	23.4114
	Continuing Calibration Blank	Se (196.026 nm)	-0.0010 u	> 100.00	-1.1429
	Continuing Calibration Blank	Sn (189.925 nm)	0.0016	58.42	11.9832
	Continuing Calibration Blank	Sr (216.596 nm)	0.0000 u	> 100.00	-47.6746

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Ti (336.122 nm)	0.0055	27.39	508.3016
	Continuing Calibration Blank	Tl (190.794 nm)	0.0004	69.03	1.9430
	Continuing Calibration Blank	V (292.401 nm)	-0.0002 u	86.99	-62.7065
	Continuing Calibration Blank	Y (360.074 nm)	0.95	0.40	449115.28
	Continuing Calibration Blank	Y_R (360.074 nm)	0.96	0.40	450281.39
	Continuing Calibration Blank	Zn (213.857 nm)	0.0002	20.13	-37.0434
2/23/2024 11:54:56	R2401217-010 10X	Ag (328.068 nm)	0.0001	41.34	-257.2393
	R2401217-010 10X	Al (237.312 nm)	0.0139	9.50	101.3298
	R2401217-010 10X	As (188.980 nm)	-0.0002 u	> 100.00	-15.2654
	R2401217-010 10X	B (249.772 nm)	0.0026	10.18	124.0400
	R2401217-010 10X	Ba (230.424 nm)	0.0082	0.82	394.6133
	R2401217-010 10X	Be (313.107 nm)	0.0000 u	61.93	-228.1793
	R2401217-010 10X	Ca (317.933 nm)	3.0393	0.05	119572.4139
	R2401217-010 10X	Cd (214.439 nm)	0.0000 u	88.75	0.0868
	R2401217-010 10X	Co (230.786 nm)	0.0008	27.59	65.5954
	R2401217-010 10X	Cr (267.716 nm)	-0.0001 u	> 100.00	-27.8510
	R2401217-010 10X	Cu (327.395 nm)	0.0001 u	> 100.00	-36.3418
	R2401217-010 10X	Fe (234.350 nm)	0.0278	0.58	771.6559
	R2401217-010 10X	K (766.491 nm)	0.2802	6.08	-2.0593
	R2401217-010 10X	Mg (279.078 nm)	0.9108	0.10	2750.1237
	R2401217-010 10X	Mn (257.610 nm)	1.1304	0.05	368564.4384
	R2401217-010 10X	Mo (202.032 nm)	0.0009	12.40	-0.0619
	R2401217-010 10X	Na (588.995 nm)	5.2308	0.16	47080.9563
	R2401217-010 10X	Ni (230.299 nm)	0.0011	53.52	87.9146
	R2401217-010 10X	Pb (220.353 nm)	0.0015	65.90	18.8581
	R2401217-010 10X	Sb (217.582 nm)	0.0007	> 100.00	14.4892
	R2401217-010 10X	Se (196.026 nm)	0.0009	89.36	0.2991
	R2401217-010 10X	Sn (189.925 nm)	0.0000 u	> 100.00	7.1325
	R2401217-010 10X	Sr (216.596 nm)	0.0091	1.44	129.0224
	R2401217-010 10X	Ti (336.122 nm)	0.0018	34.85	42.2935
	R2401217-010 10X	Tl (190.794 nm)	0.0003 u	> 100.00	1.7263
	R2401217-010 10X	V (292.401 nm)	0.0001	82.55	-52.5134
	R2401217-010 10X	Y (360.074 nm)	0.96	0.40	453414.77
	R2401217-010 10X	Y_R (360.074 nm)	0.97	0.40	454636.71
	R2401217-010 10X	Zn (213.857 nm)	0.0015	1.17	33.1302
2/23/2024 11:58:10	Continuing Calibration Verification	Ag (328.068 nm)	0.5292	0.13	30743.7236
	Continuing Calibration Verification	Al (237.312 nm)	10.1034	0.07	25030.1467
	Continuing Calibration Verification	As (188.980 nm)	1.0189	0.07	1785.7666
	Continuing Calibration Verification	B (249.772 nm)	2.5185	0.15	82891.1410
	Continuing Calibration Verification	Ba (230.424 nm)	10.4220	0.19	504674.5147
	Continuing Calibration Verification	Be (313.107 nm)	0.2500	0.09	273170.3722
	Continuing Calibration Verification	Ca (317.933 nm)	25.8864	0.16	997064.3864
	Continuing Calibration Verification	Cd (214.439 nm)	0.5217	0.08	33545.5682
	Continuing Calibration Verification	Co (230.786 nm)	2.5820	0.11	40285.7145
	Continuing Calibration Verification	Cr (267.716 nm)	0.5144	0.17	22310.5525
	Continuing Calibration Verification	Cu (327.395 nm)	1.2920	0.29	45706.9293
	Continuing Calibration Verification	Fe (234.350 nm)	5.0558	0.20	108821.1406
	Continuing Calibration Verification	K (766.491 nm)	24.5094	0.41	24019.6459
	Continuing Calibration Verification	Mg (279.078 nm)	24.9001	0.10	75689.4603
	Continuing Calibration Verification	Mn (257.610 nm)	0.7558	0.19	246448.3602
	Continuing Calibration Verification	Mo (202.032 nm)	2.5573	0.80	20402.6468
	Continuing Calibration Verification	Na (588.995 nm)	25.6229	0.44	271203.2948
	Continuing Calibration Verification	Ni (230.299 nm)	2.0883	0.13	25211.0112
	Continuing Calibration Verification	Pb (220.353 nm)	0.5197	0.20	2844.6376
	Continuing Calibration Verification	Sb (217.582 nm)	4.9658	0.22	11810.3308
	Continuing Calibration Verification	Se (196.026 nm)	0.5059	0.73	388.4259
	Continuing Calibration Verification	Sn (189.925 nm)	5.1423	0.13	15106.2159

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	Sr (216.596 nm)	2.4916	0.35	48203.4289
	Continuing Calibration Verification	Ti (336.122 nm)	2.5541	0.12	321358.6951
	Continuing Calibration Verification	Tl (190.794 nm)	1.0614	0.29	1335.5971
	Continuing Calibration Verification	V (292.401 nm)	2.5304	0.12	99171.3403
	Continuing Calibration Verification	Y (360.074 nm)	0.93	0.49	436066.21
	Continuing Calibration Verification	Y_R (360.074 nm)	0.93	0.48	437217.10
	Continuing Calibration Verification	Zn (213.857 nm)	0.9958	0.01	55060.6642
2/23/2024 12:01:24	Continuing Calibration Blank	Ag (328.068 nm)	0.0003	8.42	-246.1049
	Continuing Calibration Blank	Al (237.312 nm)	0.0010 u	> 100.00	69.4314
	Continuing Calibration Blank	As (188.980 nm)	0.0007	72.80	-13.6916
	Continuing Calibration Blank	B (249.772 nm)	0.0024	16.73	117.1958
	Continuing Calibration Blank	Ba (230.424 nm)	0.0002	9.78	7.3015
	Continuing Calibration Blank	Be (313.107 nm)	0.0000 u	> 100.00	-211.7943
	Continuing Calibration Blank	Ca (317.933 nm)	-0.0063 u	2.90	2600.3275
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	3.0914
	Continuing Calibration Blank	Co (230.786 nm)	0.0002	63.49	55.2596
	Continuing Calibration Blank	Cr (267.716 nm)	0.0001	> 100.00	-19.2180
	Continuing Calibration Blank	Cu (327.395 nm)	0.0001 u	> 100.00	-35.4005
	Continuing Calibration Blank	Fe (234.350 nm)	0.0037	18.02	253.7567
	Continuing Calibration Blank	K (766.491 nm)	0.0731	31.40	-207.3505
	Continuing Calibration Blank	Mg (279.078 nm)	-0.0008 u	> 100.00	-21.8060
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000 u	> 100.00	-4.5568
	Continuing Calibration Blank	Mo (202.032 nm)	0.0063	9.45	43.0275
	Continuing Calibration Blank	Na (588.995 nm)	0.0135	9.16	-10261.2345
	Continuing Calibration Blank	Ni (230.299 nm)	0.0008	50.15	84.3080
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0002 u	> 100.00	9.5603
	Continuing Calibration Blank	Sb (217.582 nm)	0.0067	30.46	28.7697
	Continuing Calibration Blank	Se (196.026 nm)	-0.0022 u	56.03	-2.0693
	Continuing Calibration Blank	Sn (189.925 nm)	0.0013	> 100.00	10.9352
	Continuing Calibration Blank	Sr (216.596 nm)	0.0001 u	> 100.00	-46.7683
	Continuing Calibration Blank	Ti (336.122 nm)	0.0059	27.13	559.4202
	Continuing Calibration Blank	Tl (190.794 nm)	0.0001 u	> 100.00	1.4914
	Continuing Calibration Blank	V (292.401 nm)	-0.0001 u	71.06	-59.9826
	Continuing Calibration Blank	Y (360.074 nm)	0.97	0.14	458572.74
	Continuing Calibration Blank	Y_R (360.074 nm)	0.98	0.15	459821.84
	Continuing Calibration Blank	Zn (213.857 nm)	0.0003	18.47	-35.0311
2/23/2024 12:04:37	Contract Required Detection Limit	Ag (328.068 nm)	0.0104	0.78	347.3524
	Contract Required Detection Limit	Al (237.312 nm)	0.2028	1.13	568.0965
	Contract Required Detection Limit	As (188.980 nm)	0.0198	5.90	20.0465
	Contract Required Detection Limit	B (249.772 nm)	0.2033	0.12	6725.6763
	Contract Required Detection Limit	Ba (230.424 nm)	0.2146	0.23	10386.5018
	Contract Required Detection Limit	Be (313.107 nm)	0.0051	0.19	5375.4794
	Contract Required Detection Limit	Ca (317.933 nm)	1.0451	0.10	42981.3092
	Contract Required Detection Limit	Cd (214.439 nm)	0.0108	0.42	699.6715
	Contract Required Detection Limit	Co (230.786 nm)	0.0531	0.74	880.2837
	Contract Required Detection Limit	Cr (267.716 nm)	0.0104	0.55	428.7476
	Contract Required Detection Limit	Cu (327.395 nm)	0.0262	1.41	888.0039
	Contract Required Detection Limit	Fe (234.350 nm)	0.1116	0.60	2572.6335
	Contract Required Detection Limit	K (766.491 nm)	1.0000	2.13	711.5821
	Contract Required Detection Limit	Mg (279.078 nm)	0.9894	0.16	2988.9716
	Contract Required Detection Limit	Mn (257.610 nm)	0.0159	0.04	5164.6031
	Contract Required Detection Limit	Mo (202.032 nm)	0.0256	3.28	197.2202
	Contract Required Detection Limit	Na (588.995 nm)	0.9750	0.41	306.1191
	Contract Required Detection Limit	Ni (230.299 nm)	0.0413	1.15	571.9990
	Contract Required Detection Limit	Pb (220.353 nm)	0.0115	2.27	73.7118
	Contract Required Detection Limit	Sb (217.582 nm)	0.0613	3.24	158.4659
	Contract Required Detection Limit	Se (196.026 nm)	0.0067 R	41.05	4.7747 R

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Contract Required Detection Limit	Sn (189.925 nm)	0.5189	0.39	1530.7304
	Contract Required Detection Limit	Sr (216.596 nm)	0.1031	0.24	1949.1118
	Contract Required Detection Limit	Ti (336.122 nm)	0.0528	1.41	6465.2596
	Contract Required Detection Limit	Tl (190.794 nm)	0.0169	8.37	22.5900
	Contract Required Detection Limit	V (292.401 nm)	0.0507	0.52	1930.9322
	Contract Required Detection Limit	Y (360.074 nm)	0.97	0.58	455797.65
	Contract Required Detection Limit	Y_R (360.074 nm)	0.97	0.58	457062.74
	Contract Required Detection Limit	Zn (213.857 nm)	0.0200	0.57	1058.1844
2/23/2024 12:07:51	Interference Check Solution A	Ag (328.068 nm)	0.0002 u	> 100.00	-252.4722
	Interference Check Solution A	Al (237.312 nm)	262.7063 o	0.05	649153.5726
	Interference Check Solution A	As (188.980 nm)	-0.0071 Ku +/-0.01	35.24	-27.5331 K
	Interference Check Solution A	B (249.772 nm)	0.1072	0.20	3564.5605
	Interference Check Solution A	Ba (230.424 nm)	0.0010	12.23	46.1780
	Interference Check Solution A	Be (313.107 nm)	0.0000 u	18.19	-233.4629
	Interference Check Solution A	Ca (317.933 nm)	248.1089 o	0.25	9531965.0189
	Interference Check Solution A	Cd (214.439 nm)	-0.0013 Ku +/-0.001	5.29	-79.3004 K
	Interference Check Solution A	Co (230.786 nm)	0.0017	19.25	78.9140
	Interference Check Solution A	Cr (267.716 nm)	0.0011	9.92	22.7536
	Interference Check Solution A	Cu (327.395 nm)	0.0009	40.43	-5.0161
	Interference Check Solution A	Fe (234.350 nm)	97.1425 o	0.27	2087725.0757
	Interference Check Solution A	K (766.491 nm)	0.0454	93.41	-234.8156
	Interference Check Solution A	Mg (279.078 nm)	264.9223 o	0.18	805477.0324
	Interference Check Solution A	Mn (257.610 nm)	0.0015	1.26	474.9940
	Interference Check Solution A	Mo (202.032 nm)	-0.0008 u	22.38	-14.1294
	Interference Check Solution A	Na (588.995 nm)	-0.0734 u	7.24	-11215.5871
	Interference Check Solution A	Ni (230.299 nm)	0.0024	14.58	102.6849
	Interference Check Solution A	Pb (220.353 nm)	0.0018	81.88	20.8024
	Interference Check Solution A	Sb (217.582 nm)	-0.0047 u	24.78	1.6704
	Interference Check Solution A	Se (196.026 nm)	0.0004 u	> 100.00	-0.0859
	Interference Check Solution A	Sn (189.925 nm)	0.0047	19.83	21.0657
	Interference Check Solution A	Sr (216.596 nm)	0.0107	1.96	159.1806
	Interference Check Solution A	Ti (336.122 nm)	0.0029	20.01	188.7751
	Interference Check Solution A	Tl (190.794 nm)	0.0012 u	> 100.00	2.8421
	Interference Check Solution A	V (292.401 nm)	0.0024	11.53	37.2661
	Interference Check Solution A	Y (360.074 nm)	0.86	0.41	406430.89
	Interference Check Solution A	Y_R (360.074 nm)	0.87	0.40	407381.34
	Interference Check Solution A	Zn (213.857 nm)	0.0127 K +/-0.01	0.32	654.4752 K
2/23/2024 12:11:05	Interference Check Solution AB	Ag (328.068 nm)	0.2130	0.13	12219.8366
	Interference Check Solution AB	Al (237.312 nm)	264.9203 o	0.12	654623.7548
	Interference Check Solution AB	As (188.980 nm)	0.0959	3.91	154.5637
	Interference Check Solution AB	B (249.772 nm)	0.1228	0.15	4077.5479
	Interference Check Solution AB	Ba (230.424 nm)	0.5464	0.10	26455.8893
	Interference Check Solution AB	Be (313.107 nm)	0.5064	0.08	553617.0139
	Interference Check Solution AB	Ca (317.933 nm)	249.4193 o	0.14	9582294.0975
	Interference Check Solution AB	Cd (214.439 nm)	1.0183	0.11	65477.3156
	Interference Check Solution AB	Co (230.786 nm)	0.5066	0.14	7947.4136
	Interference Check Solution AB	Cr (267.716 nm)	0.5175	0.04	22447.8722
	Interference Check Solution AB	Cu (327.395 nm)	0.5588	0.17	19746.5006
	Interference Check Solution AB	Fe (234.350 nm)	97.7467 o	0.09	2100709.5511
	Interference Check Solution AB	K (766.491 nm)	0.0724	84.40	-208.0730
	Interference Check Solution AB	Mg (279.078 nm)	266.3891 o	0.16	809936.9174
	Interference Check Solution AB	Mn (257.610 nm)	0.5095	0.09	166120.1284
	Interference Check Solution AB	Mo (202.032 nm)	-0.0021 u	13.24	-23.7858
	Interference Check Solution AB	Na (588.995 nm)	-0.0644 u	3.93	-11117.1624
	Interference Check Solution AB	Ni (230.299 nm)	1.0138	0.15	12277.1936
	Interference Check Solution AB	Pb (220.353 nm)	0.0538	2.35	304.4240
	Interference Check Solution AB	Sb (217.582 nm)	0.6215	0.68	1489.3941

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Interference Check Solution AB	Se (196.026 nm)	0.0536	14.40	40.8410
	Interference Check Solution AB	Sn (189.925 nm)	0.0037	5.32	18.1665
	Interference Check Solution AB	Sr (216.596 nm)	0.0105	3.29	155.8393
	Interference Check Solution AB	Ti (336.122 nm)	0.0025	16.17	137.5453
	Interference Check Solution AB	Tl (190.794 nm)	0.0995	1.47	126.4039
	Interference Check Solution AB	V (292.401 nm)	0.5205	0.06	20352.8246
	Interference Check Solution AB	Y (360.074 nm)	0.87	0.37	407475.10
	Interference Check Solution AB	Y_R (360.074 nm)	0.87	0.37	408380.50
	Interference Check Solution AB	Zn (213.857 nm)	1.0453	0.08	57800.9323
2/23/2024 12:14:19	Continuing Calibration Verification	Ag (328.068 nm)	0.5229	0.07	30373.0862
	Continuing Calibration Verification	Al (237.312 nm)	10.1281	0.06	25091.1640
	Continuing Calibration Verification	As (188.980 nm)	1.0093	0.57	1768.8193
	Continuing Calibration Verification	B (249.772 nm)	2.5056	0.14	82466.0249
	Continuing Calibration Verification	Ba (230.424 nm)	10.4087	0.35	504032.0476
	Continuing Calibration Verification	Be (313.107 nm)	0.2483	0.09	271316.2812
	Continuing Calibration Verification	Ca (317.933 nm)	25.8894	0.24	997178.2547
	Continuing Calibration Verification	Cd (214.439 nm)	0.5195	0.09	33405.3973
	Continuing Calibration Verification	Co (230.786 nm)	2.5710	0.17	40114.8124
	Continuing Calibration Verification	Cr (267.716 nm)	0.5118	0.21	22198.2273
	Continuing Calibration Verification	Cu (327.395 nm)	1.2697	0.25	44918.3576
	Continuing Calibration Verification	Fe (234.350 nm)	5.0742	0.17	109215.8930
	Continuing Calibration Verification	K (766.491 nm)	24.1093	0.34	23622.9798
	Continuing Calibration Verification	Mg (279.078 nm)	24.7856	0.14	75341.2768
	Continuing Calibration Verification	Mn (257.610 nm)	0.7526	0.15	245380.2804
	Continuing Calibration Verification	Mo (202.032 nm)	2.5593	0.63	20418.6819
	Continuing Calibration Verification	Na (588.995 nm)	25.1462	0.24	265964.1117
	Continuing Calibration Verification	Ni (230.299 nm)	2.0813	0.16	25126.2053
	Continuing Calibration Verification	Pb (220.353 nm)	0.5163	0.27	2826.1927
	Continuing Calibration Verification	Sb (217.582 nm)	4.9485	0.12	11769.1294
	Continuing Calibration Verification	Se (196.026 nm)	0.4923	0.32	378.0086
	Continuing Calibration Verification	Sn (189.925 nm)	5.1082	0.15	15006.2254
	Continuing Calibration Verification	Sr (216.596 nm)	2.5057	0.47	48476.6298
	Continuing Calibration Verification	Ti (336.122 nm)	2.5422	0.09	319858.1420
	Continuing Calibration Verification	Tl (190.794 nm)	1.0524	0.21	1324.3110
	Continuing Calibration Verification	V (292.401 nm)	2.5208	0.16	98795.7618
	Continuing Calibration Verification	Y (360.074 nm)	0.95	0.35	445369.66
	Continuing Calibration Verification	Y_R (360.074 nm)	0.95	0.35	446391.29
	Continuing Calibration Verification	Zn (213.857 nm)	0.9885	0.15	54654.8426
2/23/2024 12:17:32	Continuing Calibration Blank	Ag (328.068 nm)	0.0002	40.94	-249.6448
	Continuing Calibration Blank	Al (237.312 nm)	0.0015	83.58	70.5339
	Continuing Calibration Blank	As (188.980 nm)	0.0030	19.94	-9.6755
	Continuing Calibration Blank	B (249.772 nm)	0.0019	27.76	100.4556
	Continuing Calibration Blank	Ba (230.424 nm)	0.0003	36.66	8.1247
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	33.03	-195.9766
	Continuing Calibration Blank	Ca (317.933 nm)	-0.0052 u	3.25	2644.3884
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	1.0017
	Continuing Calibration Blank	Co (230.786 nm)	0.0001 u	> 100.00	53.8343
	Continuing Calibration Blank	Cr (267.716 nm)	0.0003	10.20	-11.1302
	Continuing Calibration Blank	Cu (327.395 nm)	0.0001 u	> 100.00	-35.9197
	Continuing Calibration Blank	Fe (234.350 nm)	0.0048	23.92	276.4152
	Continuing Calibration Blank	K (766.491 nm)	0.0142 u	> 100.00	-265.8357
	Continuing Calibration Blank	Mg (279.078 nm)	-0.0001 u	> 100.00	-19.6312
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000 u	> 100.00	-1.7259
	Continuing Calibration Blank	Mo (202.032 nm)	0.0059	7.70	39.7655
	Continuing Calibration Blank	Na (588.995 nm)	0.0103	37.86	-10295.9314
	Continuing Calibration Blank	Ni (230.299 nm)	0.0008	10.07	83.4141
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0001 u	> 100.00	10.0464

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Sb (217.582 nm)	0.0068	14.02	29.0320
	Continuing Calibration Blank	Se (196.026 nm)	0.0003 u	> 100.00	-0.1721
	Continuing Calibration Blank	Sn (189.925 nm)	0.0011	28.34	10.4852
	Continuing Calibration Blank	Sr (216.596 nm)	0.0002	44.22	-43.6880
	Continuing Calibration Blank	Ti (336.122 nm)	0.0057	26.76	542.0067
	Continuing Calibration Blank	Tl (190.794 nm)	0.0002 u	> 100.00	1.6723
	Continuing Calibration Blank	V (292.401 nm)	0.0002 u	> 100.00	-49.1895
	Continuing Calibration Blank	Y (360.074 nm)	0.99	0.29	466957.43
	Continuing Calibration Blank	Y_R (360.074 nm)	1.00	0.28	468024.64
	Continuing Calibration Blank	Zn (213.857 nm)	0.0003	9.91	-33.7469

Summary Calibration Results

Element and wavelength	Type	Units	Equation	Correlation Coefficient	%RSE
Ag (328.068 nm)	Analyte	ppm	58590.41316671 * Concentration - 262.46276049	0.99999	4.76146213
Al (237.312 nm)	Analyte	ppm	2470.76925911 * Concentration + 66.91815962	0.99999	2.88234747
As (188.980 nm)	Analyte	ppm	1767.35298384 * Concentration - 14.97359791	0.99997	15.988207 60
B (249.772 nm)	Analyte	ppm	32896.96987887 * Concentration + 39.30184072	0.99998	4.39597564
Ba (230.424 nm)	Analyte	ppm	48424.50171871 * Concentration - 4.38694920	0.99999	4.90563149
Be (313.107 nm)	Analyte	ppm	1093679.38542668 * Concentration - 207.51231398	1.00000	3.31197014
Ca (317.933 nm)	Analyte	ppm	38407.01196504 * Concentration + 2843.23606046	1.00000	5.50857175
Cd (214.439 nm)	Analyte	ppm	64295.09875432 * Concentration + 2.99651787	1.00000	20.446895 42
Co (230.786 nm)	Analyte	ppm	15582.32307318 * Concentration + 52.88024769	1.00000	4.43404978
Cr (267.716 nm)	Analyte	ppm	43423.82969595 * Concentration - 24.52240106	1.00000	7.98640366
Cu (327.395 nm)	Analyte	ppm	35406.76467812 * Concentration - 38.17957035	0.99999	3.47996514
Fe (234.350 nm)	Analyte	ppm	21489.58198301 * Concentration + 173.56813011	1.00000	5.64686796
K (766.491 nm)	Analyte	ppm	991.43643426 * Concentration - 279.87109509	0.99995	9.53440015
Mg (279.078 nm)	Analyte	ppm	3040.50057041 * Concentration - 19.23891793	0.99999	2.90410163
Mn (257.610 nm)	Analyte	ppm	326063.39520080 * Concentration - 5.83161507	1.00000	3.89324128
Mo (202.032 nm)	Analyte	ppm	7981.20089039 * Concentration - 7.38156060	0.99999	3.74539411
Na (588.995 nm)	Analyte	ppm	10990.64914645 * Concentration - 10409.34286652	0.99999	3.29258703
Ni (230.299 nm)	Analyte	ppm	12036.64445702 * Concentration + 74.29885983	1.00000	7.33195027
Pb (220.353 nm)	Analyte	ppm	5453.26184534 * Concentration + 10.81838907	0.99999	15.417614 29
Sb (217.582 nm)	Analyte	ppm	2375.74779487 * Concentration + 12.78362954	0.99998	3.15352114
Se (196.026 nm)	Analyte	ppm	768.53797501 * Concentration - 0.37594436	0.99998	7.52310760
Sn (189.925 nm)	Analyte	ppm	2936.24399997 * Concentration + 7.17517051	1.00000	1.29760006
Sr (216.596 nm)	Analyte	ppm	19365.63292322 * Concentration - 48.05041906	1.00000	4.99696819
Ti (336.122 nm)	Analyte	ppm	125892.29816891 * Concentration - 179.19004780	1.00000	2.48923680
Tl (190.794 nm)	Analyte	ppm	1257.07006269 * Concentration + 1.38274381	1.00000	27.508224 39
V (292.401 nm)	Analyte	ppm	39214.05901835 * Concentration - 56.55029145	0.99999	3.78272326
Zn (213.857 nm)	Analyte	ppm	55341.93758069 * Concentration - 49.92805447	0.99999	5.21642127

Detailed Calibration Results

Ag (328.068 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-262.4628	0.0000	0.0000	N/A
Standard 3	349.2764	0.0100	0.0104	4.4094
Standard 4	11245.2373	0.2000	0.1964	1.7954
Standard 5	58369.7686	1.0000	1.0007	0.0714

Al (237.312 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	66.9182	0.0000	0.0000	N/A
Standard 2	308.0485	0.1000	0.0976	2.4068
Standard 4	9793.3769	4.0000	3.9366	1.5847
Standard 5	49513.6567	20.0000	20.0127	0.0634

As (188.980 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-14.9736	0.0000	0.0000	N/A
Standard 1	-4.3100	0.0050	0.0060	20.6732

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Standard 2	1.2261	0.0100	0.0092	8.3391
Standard 4	665.2331	0.4000	0.3849	3.7817
Standard 5	3525.0821	2.0000	2.0030	0.1513

B (249.772 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	39.3018	0.0000	0.0000	N/A
Standard 2	6425.3059	0.2000	0.1941	2.9393
Standard 4	31861.8625	1.0000	0.9673	3.2660
Standard 5	164746.7687	5.0000	5.0068	0.1353

Ba (230.424 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-4.3869	0.0000	0.0000	N/A
Standard 1	1006.0042	0.0200	0.0209	4.3264
Standard 4	198169.1149	4.0000	4.0924	2.3106
Standard 5	967590.5065	20.0000	19.9815	0.0924

Be (313.107 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-207.5123	0.0000	0.0000	N/A
Standard 2	2935.7292	0.0030	0.0029	4.1998
Standard 3	5348.3776	0.0050	0.0051	1.6000
Standard 4	107718.8544	0.1000	0.0987	1.3181
Standard 5	546920.4466	0.5000	0.5003	0.0527

Ca (317.933 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	2843.2361	0.0000	0.0000	N/A
Standard 2	42084.7428	1.0000	1.0217	2.1728
Standard 3	23469.8590	0.5000	0.5371	7.4107
Standard 4	390843.8685	10.0000	10.1023	1.0234
Standard 5	1922376.8107	50.0000	49.9787	0.0425

Cd (214.439 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	2.9965	0.0000	0.0000	N/A
Standard 1	85.5695	0.0010	0.0013	28.4280
Standard 2	341.2680	0.0050	0.0053	5.2247
Standard 4	12969.5720	0.2000	0.2017	0.8364
Standard 5	64276.4819	1.0000	0.9997	0.0336

Co (230.786 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	52.8802	0.0000	0.0000	N/A
Standard 1	100.9890	0.0030	0.0031	2.9130
Standard 3	874.0692	0.0500	0.0527	5.4001
Standard 4	15836.7186	1.0000	1.0129	1.2932
Standard 5	77923.7710	5.0000	4.9974	0.0523

Cr (267.716 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-24.5224	0.0000	0.0000	N/A
Standard 1	205.7583	0.0050	0.0053	6.0619
Standard 3	451.0892	0.0100	0.0110	9.5278
Standard 4	8677.5240	0.2000	0.2004	0.1990
Standard 5	43395.3717	1.0000	0.9999	0.0091

Cu (327.395 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-38.1796	0.0000	0.0000	N/A
Standard 1	326.4832	0.0100	0.0103	2.9924
Standard 2	694.6347	0.0200	0.0207	3.4851
Standard 4	17352.7393	0.5000	0.4912	1.7650
Standard 5	88540.9850	2.5000	2.5018	0.0703

Fe (234.350 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	173.5681	0.0000	0.0000	N/A
Standard 3	2443.8752	0.1000	0.1056	5.6469
Standard 4	43152.6961	2.0000	2.0000	0.0001
Standard 5	215068.1817	10.0000	9.9999	0.0006

K (766.491 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-279.8711	0.0000	0.0000	N/A
Standard 2	1660.1310	2.0000	1.9568	2.1621
Standard 3	154.8108	0.5000	0.4384	12.3127
Standard 4	9133.9450	10.0000	9.4951	5.0487
Standard 5	49394.3855	50.0000	50.1033	0.2066

Mg (279.078 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-19.2389	0.0000	0.0000	N/A
Standard 2	3013.2613	1.0000	0.9974	0.2631
Standard 3	1557.5930	0.5000	0.5186	3.7219
Standard 4	29864.2999	10.0000	9.8285	1.7151
Standard 5	152109.6772	50.0000	50.0342	0.0683

Mn (257.610 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-5.8316	0.0000	0.0000	N/A
Standard 1	3381.0309	0.0100	0.0104	3.8713
Standard 4	98216.6972	0.3000	0.3012	0.4125
Standard 5	489007.7176	1.5000	1.4997	0.0167

Mo (202.032 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-7.3816	0.0000	0.0000	N/A
Standard 1	186.1471	0.0250	0.0242	3.0078
Standard 4	7795.8307	1.0000	0.9777	2.2301
Standard 5	39934.2506	5.0000	5.0045	0.0893

Na (588.995 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-10409.3429	0.0000	0.0000	N/A
Standard 2	194.3456	1.0000	0.9648	3.5208
Standard 3	-4785.6639	0.5000	0.5117	2.3357
Standard 4	97347.8366	10.0000	9.8044	1.9556
Standard 5	539559.4325	50.0000	50.0397	0.0794

Ni (230.299 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	74.2989	0.0000	0.0000	N/A
Standard 3	590.4572	0.0400	0.0429	7.2056
Standard 4	9834.0032	0.8000	0.8108	1.3541
Standard 5	48194.4520	4.0000	3.9978	0.0549

Pb (220.353 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	10.8184	0.0000	0.0000	N/A
Standard 1	32.3223	0.0050	0.0039	21.1339
Standard 2	296.8126	0.0500	0.0524	4.8892
Standard 4	1125.4874	0.2000	0.2044	2.2020
Standard 5	5458.6392	1.0000	0.9990	0.0998

Sb (217.582 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	12.7836	0.0000	0.0000	N/A
Standard 1	36.3189	0.0100	0.0099	0.9354
Standard 2	150.8642	0.0600	0.0581	3.1318
Standard 4	4620.2264	2.0000	1.9394	3.0317
Standard 5	23799.0992	10.0000	10.0121	0.1214

Se (196.026 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-0.3759	0.0000	0.0000	N/A
Standard 2	6.7802	0.0100	0.0093	6.8864
Standard 4	148.6796	0.2000	0.1939	3.0266
Standard 5	769.0977	1.0000	1.0012	0.1218

Sn (189.925 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	7.1752	0.0000	0.0000	N/A
Standard 2	1491.1500	0.5000	0.5054	1.0798
Standard 4	5921.8800	2.0000	2.0144	0.7189
Standard 5	29360.3792	10.0000	9.9969	0.0315

Sr (216.596 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-48.0504	0.0000	0.0000	N/A
Standard 3	967.6382	0.0500	0.0524	4.8960
Standard 4	19510.9856	1.0000	1.0100	0.9987
Standard 5	96740.9595	5.0000	4.9980	0.0404

Ti (336.122 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-179.1900	0.0000	0.0000	N/A
Standard 3	5982.7705	0.0500	0.0489	2.1074
Standard 4	124046.6481	1.0000	0.9868	1.3237
Standard 5	629616.9193	5.0000	5.0027	0.0532

Tl (190.794 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	1.3827	0.0000	0.0000	N/A
Standard 1	9.1912	0.0100	0.0062	37.8834
Standard 3	24.3111	0.0200	0.0182	8.8022
Standard 4	499.7918	0.4000	0.3965	0.8788
Standard 5	2516.4526	2.0000	2.0007	0.0370

V (292.401 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-56.5503	0.0000	0.0000	N/A
Standard 1	55.6573	0.0030	0.0029	4.6196
Standard 3	1861.1559	0.0500	0.0489	2.1929
Standard 4	38541.8665	1.0000	0.9843	1.5700
Standard 5	196137.3065	5.0000	5.0032	0.0630

Zn (213.857 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-49.9281	0.0000	0.0000	N/A
Standard 1	492.0566	0.0100	0.0098	2.0662
Standard 3	1133.7567	0.0200	0.0214	6.9428
Standard 4	21777.9738	0.4000	0.3944	1.3953
Standard 5	110695.0105	2.0000	2.0011	0.0552

Preparation Information Benchsheet

Prep Run#: 434027 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/CDISTEFANO **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 2/14/24 09:44

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2401596-01	MB		50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		HB:11 Well:I5 Temp:94.0C
2	RQ2401596-02	LCS		50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/230954; 0.5000 mL/230955; 0.5000 mL/233441	On HB:16:25 HB Shutoff:2:25 Pipet/Repipettor:M340,MA100,M23
3	R2401143-001	W-2R	.17	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
4	R2401143-002	W-5	.17	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
5	RQ2401596-03	R2401143-002 MS	.17	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear	0.5000 mL/230954; 0.5000 mL/230955; 0.5000 mL/233441	
6	RQ2401596-04	R2401143-002 DMS	.17	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear	0.5000 mL/233441; 0.5000 mL/230955; 0.5000 mL/230954	
7	R2401143-003	W-6R	.17	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
8	R2401143-004	W-7	.17	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
9	R2401143-005	W-9	.17	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
10	R2401143-006	W-10	.17	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 434027 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/CDISTEFANO **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 2/14/24 09:44

11	R2401143-007	W-15	.17	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
12	R2401143-008	W-21	.12	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
13	R2401143-009	W-30	.09	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Cloudy		
14	R2401143-010	IV-1A1-PW	.17	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
15	R2401143-011	IV-1A2-PW	.17	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
16	R2401143-012	IV-2A-PW	.17	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
17	R2401143-013	Primary Leachate	.01	50mL	6010C/B T	<2			50.00mL	Green-Cloudy/Yellow-Cloudy		1.0mL HNO3 Added
18	R2401143-014	Gas Condensate	.17	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Tan-Cloudy/Yellow-Cloudy		1.0mL HNO3 Added
19	R2401143-015	W-9 DUP	.19	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
20	R2401168-001	4Q23 Effluent	.03	50mL	6010C/As T, Pb T	<2			50.00mL	Colorless-Clear		

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	230954	Logbook Ref:	230954	Expires On:	02/28/2025	Lot #: 2320923-5
Name:	Custom LCS STD B Metals	Inventory ID	230955	Logbook Ref:	230955	Expires On:	02/28/2025	Lot #: 2320908-5
Name:	C Spike	Inventory ID	233441	Logbook Ref:	233441	Expires On:	06/30/2024	

Preparation Materials

1:1 HCl Metals Grade	1:1 232049 (232050)	Hot Block Cups	50mL Lot 2304355 (232860)	Nitric Acid Metals Grade HNO3	231748 (231748)
Thermometer	461 (230831)				

Preparation Information Benchsheet

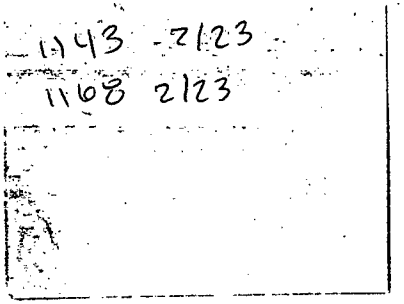
Prep Run#: 434027
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 2/14/24 09:44

Preparation Steps

Step: Digestion
Started: 2/14/24 09:44
Finished: 2/15/24 14:29
By: ECASTROVINCI
Comments



Comments: _____

Reviewed By: Molly Mellon Date: 2/18/24

Chain of Custody

Relinquished By: [signature] Date: 2/15/24

Received By: R-A01 Date: 2/15/24

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 434028
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 2/14/24 09:44

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2401597-01	MB		50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		HB:11 Well:I5 Temp:94.0C
2	RQ2401597-02	LCS		50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/230954; 0.5000 mL/233441; 0.5000 mL/230955	On HB:16:25 HB Shutoff:2:25 Pipet/Repipettor:M340,MA100,M23
3	R2401135-001	SCA-PAR0023-01	.05	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		Tier IV
4	R2401135-002	SCA-PAR0023-02	.05	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
5	R2401135-003	SCA-PAR0023-03	.05	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
6	R2401135-004	SCA-PAR0023-04	.05	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
7	R2401141-001	MW1-020824-1340	.01	50mL	6010C/Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, V T, Zn T	<2			50.00mL	Colorless-Clear		Tier IV
8	RQ2401597-03	R2401141-001 MS	.01	50mL	6010C/Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/230954; 0.5000 mL/230955; 0.5000 mL/233441	
9	RQ2401597-04	R2401141-001 DMS	.01	50mL	6010C/Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/233441; 0.5000 mL/230954; 0.5000 mL/230955	
10	R2401141-002	MW2-020824-1655	.01	50mL	6010C/Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, V T, Zn T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
11	R2401141-003	MW3-020924-1320	.01	50mL	6010C/Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, V T, Zn T	<2			50.00mL	Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 434028
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 2/14/24 09:44

12	R2401141-004	MW4-020924-1125	.01	50mL	6010C/Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, V T, Zn T	<2			50.00mL	Colorless-Clear		
13	R2401141-005	MW6-020824-1520	.01	50mL	6010C/Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, V T, Zn T	<2			50.00mL	Colorless-Clear		
14	R2401141-006	MW7-020924-0925	.01	50mL	6010C/Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, V T, Zn T	<2			50.00mL	Colorless-Clear		
15	R2401141-007	MW7D-020924-1020	.01	50mL	6010C/Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, V T, Zn T	<2			50.00mL	Colorless-Clear		
16	R2401141-008	0001-020824-1525	.01	50mL	6010C/Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, V T, Zn T	<2			50.00mL	Colorless-Clear		
17	R2401141-009	0002-020824-1745	.01	50mL	6010C/Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, V T, Zn T	<2			50.00mL	Colorless-Clear		
18	R2401141-010	0003-020824-1200	.01	50mL	6010C/Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, V T, Zn T	<2			50.00mL	Colorless-Clear		
19	R2401153-001	SCA-PAR0024-01	.09	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Cloudy/Colorless-Cloudy		Tier IV
20	R2401153-002	SCA-PAR0024-02	.09	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
21	R2401153-003	SCA-PAR0024-03	.09	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Cloudy/Colorless-Cloudy		

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	230954	Logbook Ref:	230954	Expires On:	02/28/2025	Lot #: 2320923-5
Name:	Custom LCS STD B Metals	Inventory ID	230955	Logbook Ref:	230955	Expires On:	02/28/2025	Lot #: 2320908-5
Name:	C Spike	Inventory ID	233441	Logbook Ref:	233441	Expires On:	06/30/2024	

Preparation Information Benchsheet

Prep Run#: 434028
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 2/14/24 09:44

Preparation Materials

1:1 HCl Metals Grade	1:1 232049 (232050)	Hot Block Cups	50mL Lot 2304355 (232860)	Nitric Acid Metals Grade HNO3	231748 (231748)
Thermometer	461 (230831)				

Preparation Steps

Step: Digestion
Started: 2/14/24 09:44
Finished: 2/15/24 14:31
By: ECASTROVINCI
Comments

1135 (IV) 2129
1141 (IV) 2129
1153 (IV) 311

Comments: _____

Reviewed By: Molly Mellor Date: 2/15/24

Chain of Custody

Relinquished By: [signature] Date: 2/15/24
Received By: [signature] Date: 2/15/24

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 434252
Team: Metals/ECASTROVINCI

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 2/20/24 12:51

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2401787-01	MB		50mL	6010C/Al D, Al T, As D, As T, Ca D, Ca T, Cd D, Cd T, Cr D, Cr T, Cu D, Cu T, Fe D, Fe T, K D, K T, Mg D, Mg T, Mn D, Mn T, Na D, Na T, Ni D, Ni T, Pb D, Pb T	<2			50.00mL	Colorless-Clear		HB: 11 Well: F5 Temp: 90.8C
2	RQ2401787-05	MB		50mL	6010C/Al D, As D, Ca D, Cd D, Cr D, Cu D, Fe D, K D, Mg D, Mn D, Na D, Ni D, Pb D	<2			50.00mL	Colorless-Clear		Filter Blank R2401216, R2401217 2/20/24
3	RQ2401787-02	LCS		50mL	6010C/Al D, Al T, As D, As T, Ca D, Ca T, Cd D, Cd T, Cr D, Cr T, Cu D, Cu T, Fe D, Fe T, K D, K T, Mg D, Mg T, Mn D, Mn T, Na D, Na T, Ni D, Ni T, Pb D, Pb T	<2			50.00mL	Colorless-Clear	0.5000 mL/230954; 0.5000 mL/230955; 0.5000 mL/233441	On HB: 16:50 HB Shutoff: 02:50 Pipets: M340,MA100,M23
4	R2401217-001	MW-1S	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
5	R2401217-002	MW-1I	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
6	R2401217-003	MW-1D	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
7	R2401217-004	MW-7I	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
8	RQ2401787-03	R2401217-004 MS	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear	0.5000 mL/230955; 0.5000 mL/233441; 0.5000 mL/230954	
9	RQ2401787-04	R2401217-004 DMS	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear	0.5000 mL/233441; 0.5000 mL/230954; 0.5000 mL/230955	
10	R2401217-005	MW-7	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
11	R2401217-006	MW-6I	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear		
12	R2401217-007	MW-6S	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Cloudy		
13	R2401217-008	Equipment Blank - Bailer	.07	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear		
14	R2401217-009	MW-15D	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear		
15	R2401217-010	MW-2	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 434252 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/ECASTROVINCI **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 2/20/24 12:51

16	R2401217-011	MW-12	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
17	R2401217-012	MW-18I	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
18	R2401217-013	MW-18S	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
19	R2401217-014	MW-5XI	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear		
20	R2401217-015	MW-5XI DUP	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear		
21	R2401217-016	MW-5XS	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear		
22	R2401217-017	MW-18S Diss	.02	50mL	6010C/Al D, As D, Ca D, Cd D, Cr D, Cu D, Fe D, K D, Mg D, Mn D, Na D, Ni D, Pb D	<2			50.00mL	Colorless-Clear		
23	R2401218-001	Secondary Leachate Cell 6	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
24	R2401218-002	Primary Leachate Cell 6	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Brown-Cloudy/Colorless-Clear		
25	R2401218-003	Total Leachate	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Brown-Cloudy/Colorless-Clear		

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	230954	Logbook Ref:	230954	Expires On:	02/28/2025	Lot #: 2320923-5
Name:	Custom LCS STD B Metals	Inventory ID	230955	Logbook Ref:	230955	Expires On:	02/28/2025	Lot #: 2320908-5
Name:	C Spike	Inventory ID	233441	Logbook Ref:	233441	Expires On:	06/30/2024	

Preparation Materials

1:1 HCl Metals Grade	1:1 232049 (232050)	Hot Block Cups	50mL Lot 2304355 (232860)	Nitric Acid Metals Grade HNO3 231748 (231748)
Thermometer	461 (230831)			

Preparation Steps

Step: Digestion
Started: 2/20/24 12:51
Finished: 2/21/24 11:08
By: ECASTROVINCI
Comments

1217 - 2123
1218 - 2123

Preparation Information Benchsheet

Prep Run#: 434252
Team: Metals/ECASTROVINCI

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 2/20/24 12:51

Comments:

Reviewed By: Molly McMahon Date: 2/21/24

Chain of Custody

Relinquished By: [signature] Date: 2/21/24

Received By: RA01 Date: 2/21/24

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 434254
Team: Metals/ECASTROVINCI

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 2/20/24 12:51

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2401789-01	MB		50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		HB: 1 Well: F5 Temp: 93.1C
2	RQ2401789-02	LCS		50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear	0.5000 mL/233441; 0.5000 mL/230955; 0.5000 mL/230954	On HB: 16:50 HB Shutoff: 02:50 Pipets: M340,MA100,M23
3	R2401280-002	OLN-CW013-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		Tier IV
4	R2401280-003	OLN-CW13A-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
5	R2401280-004	OLN-FB001-B007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
6	R2401280-006	OLN-WW18m-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
7	R2401280-008	OLN-RU009-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
8	R2401280-009	OLN-RU028-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
9	R2401280-010	OLN-RU011-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
10	R2401280-011	OLN-RU27A-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
11	R2401280-012	OLN-FB002-B007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
12	R2401280-013	OLN-RU015-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
13	R2401280-014	OLN-RU016-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
14	R2401280-015	OLN-FD001-D007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
15	R2401280-016	OLN-RU020-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
16	R2401280-017	OLN-RU019-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
17	R2401280-018	OLN-RU021-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
18	RQ2401789-03	R2401280-018 MS	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear	0.5000 mL/230955; 0.5000 mL/233441; 0.5000 mL/230954	
19	RQ2401789-04	R2401280-018 DMS	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear	0.5000 mL/230954; 0.5000 mL/230955; 0.5000 mL/233441	
20	R2401280-019	OLN-UA002-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
21	R2401280-020	OLN-EB001-E007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
22	R2401280-022	OLN-UA003-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
23	R2401280-023	OLN-RU008-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
24	R2401280-024	OLN-FB003-B007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	230954	Logbook Ref:	230954	Expires On: 02/28/2025	Lot #: 2320923-5
Name:	Custom LCS STD B Metals	Inventory ID	230955	Logbook Ref:	230955	Expires On: 02/28/2025	Lot #: 2320908-5
Name:	C Spike	Inventory ID	233441	Logbook Ref:	233441	Expires On: 06/30/2024	

Preparation Materials

1:1 HCl Metals Grade	1:1 232049 (232050)	Hot Block Cups	50mL Lot 2304355 (232860)	Nitric Acid Metals Grade HNO3 231748 (231748)
Thermometer	460 (230830)			

Preparation Information Benchsheet

Prep Run#: 434254
Team: Metals/ECASTROVINCI

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 2/20/24 12:51

Preparation Steps

Step: Digestion
Started: 2/20/24 12:51
Finished: 2/21/24 11:19
By: ECASTROVINCI
Comments

1280 - 3/1 (IV)

Comments:

Reviewed By: [signature] Date: 2/21/24

Chain of Custody

Relinquished By: [signature] Date: 2/21/24

Received By: RAVI Date: 2/21/24

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 434309
Team: Metals/NMANSEN

Prep WorkFlow: MetDigSICP
Prep Method: EPA 3050B

Status: Prepped
Prep Date/Time: 2/21/24 07:45

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2401819-01	MB		0.5g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	White-Coarse/Colorless-Clear		HB: 12 Well: G6 Temp: 90.8C/93.9C
2	RQ2401819-02	LCS		0.5g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	White-Coarse/Colorless-Clear		On HB:9:50-10:05,10:10-10:40,10:45-11:15,12:00-12:15,12:20:12:35 Pipets:M23,M33,M38,M380,MA100,M340
3	R2401277-001	Post-SB-09-0-5.7	.01	0.5200g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		Tier IV
4	RQ2401819-03	R2401277-001 MS	.01	0.5100g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
5	RQ2401819-04	R2401277-001 DMS	.01	0.5200g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
6	R2401345-001	B01	.01	0.5200g	6010C/Ag T, As T, Ba T, Be T, Cd T, Cr T, Cu T, Mn T, Ni T, Pb T, Se T, Zn T				50.00mL	Brownish Red-Medium/Yellow-Clear		Tier IV
7	R2401345-002	B02	.01	0.5100g	6010C/Ag T, As T, Ba T, Be T, Cd T, Cr T, Cu T, Mn T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
8	R2401345-003	B03	.01	0.5400g	6010C/Ag T, As T, Ba T, Be T, Cd T, Cr T, Cu T, Mn T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
9	R2401345-004	B04	.01	0.5500g	6010C/Ag T, As T, Ba T, Be T, Cd T, Cr T, Cu T, Mn T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
10	R2401345-005	B05	.01	0.5100g	6010C/Ag T, As T, Ba T, Be T, Cd T, Cr T, Cu T, Mn T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
11	R2401345-006	B06	.01	0.5200g	6010C/Ag T, As T, Ba T, Be T, Cd T, Cr T, Cu T, Mn T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
12	R2401345-007	B07	.01	0.5400g	6010C/Ag T, As T, Ba T, Be T, Cd T, Cr T, Cu T, Mn T, Ni T, Pb T, Se T, Zn T				50.00mL	Brownish Red-Medium/Yellow-Clear		
13	R2401345-008	B08	.01	0.5500g	6010C/Ag T, As T, Ba T, Be T, Cd T, Cr T, Cu T, Mn T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		

Preparation Information Benchsheet

Prep Run#: 434309
Team: Metals/NMANSEN

Prep WorkFlow: MetDigSICP
Prep Method: EPA 3050B

Status: Prepped
Prep Date/Time: 2/21/24 07:45

14	R2401345-009	B09	.01	0.5100g	6010C/Ag T, As T, Ba T, Be T, Cd T, Cr T, Cu T, Mn T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
15	R2401345-010	B10	.01	0.5g	6010C/Ag T, As T, Ba T, Be T, Cd T, Cr T, Cu T, Mn T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		

Preparation Materials

1:1 HCl Metals Grade	1:1 232049 (232050)	1:1 Nitric Acid Metals Grade	1:1 231748 (232391)	Hot Block Cups	50mL Lot 2304355 (232860)
Hydrogen Peroxide 30% Reagent Grade H2O2	222889 (222889)	Nitric Acid Metals Grade HNO3	231748 (231748)	Thermometer	462 (230832)

Preparation Steps

Step: Digestion
Started: 2/21/24 07:45
Finished: 2/21/24 13:15
By: ECASTROVINCI
Comments

Comments: _____

Reviewed By: Molly Mulch Date: 2/21/24

Chain of Custody

Relinquished By: Nicole Mansen Date: 2/21/24

Received By: RAOI Date: 2/21/24

Extracts Examined
Yes No

Date: 2/21/24 Analyst: EC (weights)

Prep Number: 434308, 434309 Balance ID: R-Balance-03

Sample	ICP (g)	Hg (g)	Sample Description
R2401222-01	0.52		B-M
1252-03	0.55		
04	0.54		
1277-01	0.52 →	MS-0.51	
1312-01	0.53	MSD-0.52	
1333-01	0.53		B-red-M
02	0.55		
03	0.54		B-M
3MS	0.54		
3MSD	0.53		
1334-01	0.52		
03	0.51		
1345-01	0.52		B-red-M
2	0.51		B-M
3	0.54		
4	0.55		
5	0.51		
6	0.52		
7	0.54		B-red-M
8	0.55		B-M
9	0.51		
10	0.50		
1281-01	0.51		

1222-1 2/23 ICP soils

1252-3,4 2/26

1277-1 3/1 (IV)

1281-1 2/26

1333-1, 2, 3 3/5 (IV)

1334-1, 3 3/8 (IV)

1312-1 3/4 (IV)

1345-1 → 10 3/8 (IV)

2/21/24

Preparation Information Benchsheet

Prep Run#: 434308
Team: Metals/NMANSEN

Prep WorkFlow: MetDigSICP
Prep Method: EPA 3050B

Status: Prepped
Prep Date/Time: 2/21/24 07:45

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2401818-01	MB		0.5g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	White-Coarse/Colorless-Clear		HB: 12 Well: G6 Temp: 90.8C/93.9C
2	RQ2401818-02	LCS		0.5g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	White-Coarse/Colorless-Clear	0.5000 mL/230954; 0.5000 mL/230955; 0.5000 mL/233441	On HB:9:50-10:05,10:10-10:40, 10:45-11:15,12:00-12:15,12: 20:12:35 Pipets:M23,M33,M38,M380 ,MA100,M340
3	R2401222-001	Biosolids	.01	0.5200g	6010C/As T, Cd T, Cr T, Cu T, Mo T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Tan-Clear		
4	R2401252-003	Compost Pile 2023-10	.01	0.5500g	6010C/As T, Cd T, Cr T, Cu T, K T, Mo T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
5	R2401252-004	Compost Pile 2023-11	.01	0.5400g	6010C/As T, Cd T, Cr T, Cu T, K T, Mo T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
6	R2401281-001	800 Stockpile	.02	0.5100g	6010C/Cd T, Pb T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
7	R2401312-001	Post-SS-15-0.5-1	.01	0.5300g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		Tier IV
8	R2401333-001	Front Driver Side	.01	0.5300g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Brownish Red-Medium/Yellow-Clear		Tier IV
9	R2401333-002	Back Driver Side	.01	0.5500g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
10	R2401333-003	Passenger Side Middle	.01	0.5400g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Brown-Medium/BrownClear		
11	RQ2401818-03	R2401333-003 MS	.01	0.5400g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Brown-Medium/Yellow-Clear	0.5000 mL/233441; 0.5000 mL/230955; 0.5000 mL/230954	
12	RQ2401818-04	R2401333-003 DMS	.01	0.5300g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Brown-Medium/Yellow-Clear	0.5000 mL/233441; 0.5000 mL/230954; 0.5000 mL/230955	

Preparation Information Benchsheet

Prep Run#: 434308
Team: Metals/NMANSEN

Prep WorkFlow: MetDigSICP
Prep Method: EPA 3050B

Status: Prepped
Prep Date/Time: 2/21/24 07:45

13	R2401334-001	POST-SS-08-0-0.5	.01	0.5200g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		Tier IV
14	R2401334-003	POST-SS-03-1-2	.01	0.5100g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		Tier IV

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	230954	Logbook Ref:	230954	Expires On:	02/28/2025	Lot #: 2320923-:
Name:	Custom LCS STD B Metals	Inventory ID	230955	Logbook Ref:	230955	Expires On:	02/28/2025	Lot #: 2320908-:
Name:	C Spike	Inventory ID	233441	Logbook Ref:	233441	Expires On:	06/30/2024	

Preparation Materials

1:1 HCl Metals Grade	1:1 232049 (232050)	1:1 Nitric Acid Metals Grade	1:1 231748 (232391)	Hot Block Cups	50mL Lot 2304355 (232860)
Hydrogen Peroxide 30% Reagent Grade H2O2	222889 (222889)	Nitric Acid Metals Grade HNO3	231748 (231748)	Thermometer	462 (230832)

Preparation Steps

Step: Digestion
Started: 2/21/24 07:45
Finished: 2/21/24 13:09
By: ECASTROVINCI
Comments

Comments: _____

Reviewed By: Molly Mellon Date: 2/21/24

Chain of Custody

Relinquished By: Nicole Mansen Date: 2/21/24

Received By: RAO1 Date: 2/21/24

Extracts Examined
Yes No

ICP ICV/CCV (Standard is prepared daily)
(ICV FOR ILM5.3 IS A ½ DILUTION OF THIS STANDARD)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 1	CA	231799	5000	1.00	200	25.0
	MG		5000			25.0
	K		5000			25.0
	NA		5000			25.0
Cal Std 2	AG	231800	100	1.00		0.500
	CR		100			0.500
	MN		150			0.750
	NI		400			2.00
	ZN		200			1.00
Cal Std 3	AL	230757	2000	1.00		10.0
	BA		2000			10.0
	BE		50			0.250
	CO		500			2.50
	CU		250			1.25
	FE		1000			5.00
	V		500			2.50
Cal Std 4	AS	230300	100	2.00		1.00
	CD		50			0.500
	PB		50			0.500
	SE		50			0.500
	TL		100			1.00
Single Metals	SB	230314	1000	1.00		5.00
	SN	230319	1000	1.00		5.00
	B	231910	1000	0.500		2.50
	MO	230303	1000	0.500		2.50
	TI	225912	1000	0.500		2.50
	SR	230304	1000	0.500		2.50
	P	—	1000	1.00		5.00

Analyst/ Date	Letter ID	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Pipet ID
MFM 2/12/24	A	231748 10%	232049 5%	M36
NM 2/13/24	B	231748 10%	232049 5%	M40
MFM 2/14/24	C	231748 2%	232049 5%	M40
MFM 2/15/24	D	231748 10%	232049 5%	M40
MFM 2/16/24	E	231748 2%	232049 5%	M40
NM 2/20/24	F	231748 10%	232049 5%	M40
MFM 2/21/24	G	231748 10%	232049 5%	M40
MFM 2/22/24	H	231748 10%	233283 5%	M36
	I			
	J			
	K			
	L			
	M			
	N			
	O			
	P			
	Q			
	R			
	S			
	T			
	U			
	V			
	W			
	X			
	Y			
	Z			
	AA			
	BB			

ICP CALIBRATION STANDARD #1 (Standard is prepared every 6 months or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std.1 Int.	AL	M8440031A	20.0	1.00	1000	0.020
	AS		5.00			0.0050
	CD		1.00			0.0010
	CO		3.00			0.0030
	CR		5.00			0.0050
	PB		5.00			0.0050
	V		3.00			0.0030
Cal Std. 1	CA	226704	5000	0.100		0.500
	K		5000			BELOW
	MG		5000			0.500
	NA		5000			0.500
Single Element	BA	227183	1000	0.020		0.020
	CU	230454	1000	0.010		0.010
	K	229196	10000	0.150		2.00
	MN	227184	1000	0.010		0.010
	MO	226706	1000	0.025		0.025
	SB	230313	1000	0.010		0.010
	TL	226708	1000	0.010		0.010
	ZN	227186	1000	0.010		0.010
	P	–	1000	0.100		0.100

Analyst/ Date	Letter ID	Nitric Acid Lot#/ Concentration	Hydrochloric Acid Lot #/ Concentration	Expiration Date	Pipet ID
NM 10/2/23	A	229709 2%	231167 5%	3/28/24	M37 M36
NM 10/2/23	B	229709 10%	231167 5%	3/28/24	M37 M36
	C				
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				

ICP CALIBRATION STANDARD #2
(Standard is prepared every 6 months or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Single Element	AL	199356	1000	0.100	1000	0.100
	AS	230302	1000	0.010		0.010
	B	226705	1000	0.200		0.200
	BE	230311 (1/10)	100	0.030		0.003
	CA	230305	10000	0.100		1.00
	CD	227603 (1/10)	100	0.050		0.005
	CU	230454	1000	0.020		0.020
	K	229196	10000	0.200		2.00
	MG	230307	10000	0.100		1.00
	NA	230308	10000	0.100		1.00
	PB	227185	1000	0.050		0.050
	SB	230313	1000	0.060		0.060
	SE	230309	1000	0.010		0.010
	SN	229641	1000	0.500		0.500

Analyst/ Date	Letter ID	Nitric Acid Lot#	Hydrochloric Acid Lot #	Expiration Date	Pipet ID
NM 10/2/23	A	229709 2%	231167 5%	4/2/24	M37 M36
NM 10/2/23	B	229709 10%	231167 5%	4/2/24	M37 M36
	C				
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				

ICP CALIBRATION STANDARD #5 / HLCCV1 (Standard is prepared every 6 months or as necessary)

(CALIBRATION STANDARD #3 IS A 1/100 DILUTION OF THIS STANDARD)
(CALIBRATION STANDARD #4 IS A 1/5 DILUTION OF THIS STANDARD)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 2	AG	230301	100	~~2.00~~	~~200~~	1.00
	CR		100	5.00	500	1.00
	MN		150			1.50
	NI		400			4.00
	ZN		200			2.00
Cal Std 3	AL	233055	2000	~~2.00~~		20.0
	BA		2000	5.00		20.0
	BE		50			0.500
	CO		500			5.00
	CU		250			2.50
	FE		1000			10.0
	V		500			5.00
Cal Std 4	AS	231798	100	~~4.00~~		2.00
	CD		50	10.00		1.00
	PB		50			1.00
	SE		50			1.00
	TL		100			2.00
Single Metals	CA	230305	10000	~~1.00~~	2.50	50.0
	MG	230307	10000	~~1.00~~	2.50	50.0
	K	229196	10000	~~1.00~~	2.50	50.0
	NA	230308	10000	~~1.00~~	2.50	50.0
	SB	230313	1000	~~2.00~~	5.00	10.0
	SN	231915	1000	~~2.00~~	5.00	10.0
	B	226705	1000	~~1.00~~	2.50	5.00
	MO	226706	1000	~~1.00~~	2.50	5.00
	TI	230316	1000	~~1.00~~	2.50	5.00
	SR	230310	1000	~~1.00~~	2.50	5.00

Analyst/ Date	Letter ID	Nitric Acid Lot#/ Concentration	Hydrochloric Acid Lot #/ Concentration	Expiration Date	Pipet ID
NM 1/31/24	A	231748 2%	232049 5%	6/30/24	M38
NM 1/31/24	B	231748 10%	232049 5%	6/30/24	M38
	C				
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				
	BB				

ICP HLCCV2 (Standard is prepared every 6 months or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 2	AG	230301	100	~~2.00~~	100	2.00
	CR		100	4.00	200	Below
	MN		150			Below
	NI		400			8.00
	ZN		200			4.00
Cal Std 3	AL	233055	2000	~~2.00~~		Below
	BA		2000	4.00		40.0
	BE		50			1.00
	CO, V		500			10.0
	CU		250			5.00
	FE		1000			Below
Cal Std 4	AS, TL	231798	100	~~4.00~~		4.00
	CD, SE		50	8.00		2.00
	PB		50			Below
Single Metals	B	226805	1000	~~1.00~~	2.00	10.0
	MO	226706	1000	~~1.00~~	2.00	10.0
	TI	230316	1000	~~1.00~~	2.00	10.0
	SR	230310	1000	~~1.00~~	2.00	10.0
	CA	230305	10000	~~2.50~~	5.00	250
	MG	230307	10000	~~5.00~~	10.00	500
	NA	230308	10000	~~2.00~~	4.00	~~150~~ 200
	CR	230312	1000	~~0.800~~	1.60	10.0
	FE	230306	10000	~~0.300~~	0.60	50
	AL	226846	10000	~~4.60~~	9.20	500
	MN	227184	1000	~~0.700~~	1.40	10.00
	PB	227185	1000	~~0.800~~	1.60	10.0
	K	229196	10000	~~1.50~~	3.00	150

MFM 1/8/24

Analyst/ Date	Letter ID	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
MFM 1/8/24	A	231748 2%	232049 5%	6/8/24	M36 M38
MFM 1/31/24	B	231748 10%	232049 5%	6/30/24	M36 M38
	C				
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				

ICP HLCCV3 (Standard is prepared every 6 months or as necessary)

Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst / Date	Letter ID	Nitric Acid Lot #	HCL Lot #	Expiration Date	Pipet ID
CA	230305	10,000	~~2.000~~ 4.00	~~100~~ 200	200.00	2% HNO3 5% HCl	NM 9/13/23	A	229709	229711	3/13/24	M36 M38
CU	230454	1000	~~0.400~~ 0.800		4.00	10% HNO3 5% HCl	NM 9/13/23	B	229709	229711	3/	M36
FE	230306	10,000	~~0.400~~ 0.800		40.00	10% HNO3 5% HCl	NM 12/6/23	C	231748	230649	9/	
K	229196	10,000	~~1.000~~ 2.00		100.00			D				
TL	226708	1000	~~0.300~~ 0.600		3.00			E				
NA	230308	10,000	~~1.500~~ 3.00		150.00			F				
MG	230307	10,000	~~4.000~~ 8.00		400.00			G				
								H				
								I				
								J				
								K				
								L				
								M				
								N				
								O				
								P				
								Q				
								R				
								S				
								T				
								U				

ICP MRL (Standard is prepared every 6 months or as needed)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 1	CA	226704	5000	0.200	1000	1.00
	MG		5000			1.00
	K		5000			1.00
	NA		5000			1.00
Cal Std 2	AG	230301	100	0.100		0.0100
	CR		100			0.0100
	MN		150			0.0150
	NI		400			0.0400
	ZN		200			0.0200
Cal Std 3	AL	233055	2000	0.100		0.200
	BA		2000			0.200
	BE		50			0.0050
	CO		500			0.0500
	CU		250			0.0250
	FE		1000			0.100
	V		500			0.0500
Cal Std 4	AS	231798	100	0.200		0.0200
	CD		50			0.0100
	PB		50			0.0100
	SE		50			0.0100
	TL		100			0.0200
Single Metals	B	226705	1000	0.200		0.200
	MO	226706	1000	0.025		0.0250
	SN	231915	1000	0.500		0.500
	TI	230316	1000	0.050		0.0500
	SB	230313	1000	0.060		0.0600
	SR	230310	1000	0.100		0.100
	P	—	1000	0.100		0.100

Analyst/ Date	Letter ID	Nitric Acid Lot# / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
MFM 2/8/24	A	231748 10%	232049 8%	3/28/24	M36 M37
	B				
	C				
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z	1			
	AA				
	BB				

ICP ICSA STANDARD (Standard is prepared every 6 months or as necessary)

Element	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Int. A Sol'n	230960	Multi	50	1000	Multi
AL		5000			250
CA		5000			250
FE		2000			100
MG		5000			250

Analyst/ Date	ID Letter	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 10/17/23	A	229709 2%	231167 5%	4/17/24	disp0
NM 10/17/23	B	229709 10%	231167 5%	4/17/24	disp0
NM 12/6/23	C	231748 10%	232049 5%	6/6/24	disp0
NM 12/7/23	D	231748 10%	232049 5%	6/7/24	disp0
NM 12/21/23	E	231748 2%	232049 5%	6/21/24	disp0
MFM 2/12/24	F	231748 10%	232049 5%	8/12/24	disp0
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				

ICP ICSAB STANDARD (Standard is prepared every 6 months or as necessary)

Element	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Int. A Sol'n	228413	Multi	~~25~~	~~500~~ 1000	Multi
AL		5000			250
CA		5000			250
FE		2000			100
MG		5000			250
Int. B Sol'n	228979	Multi	~~50~~		Multi
AG		20			0.200
BA		50			0.500
BE		50			0.500
CD		100			1.00
CO		50			0.500
CR		50			0.500
CU		50			0.500
MN		50			0.500
NI		100			1.00
PB		5			0.0500
V		50			0.500
ZN		100			1.00
AS		10			0.100
SB		60			0.600
SE		5			0.0500
TL		10			0.100

Analyst/ Date	ID Letter	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 6/30/23	A	228400 2%	229711 5%	12/30/23	M38
NM 6/30/23	B	228400 10%	229711 5%	12/30/23	M38
NM 9/13/23	C	229709 2%	229711 5%	3/13/24	M38
NM 9/13/23	D	229709 10%	229711 5%	3/13/24	M38
NM 11/14/23	E	229709 10%	231167 5%	3/3/24	disp01
NM 12/21/23	F	231748 2%	~~231167~~ 232095 5%	6/21/24	disp01
NM 12/21/23	G	231748 10%	232095 5%	6/21/24	disp01
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				

MFM 1/12/24

ICP INTERNAL STANDARD (ADDED ON-LINE)

Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot #	Hydro-chloric Acid Lot #	Expiration Date	Pipet ID
Y	226709	10000	2.0	2000	10.0	5 % HCl 2%HNO3	MFM 1/25/24	A	231748	232049	6/30/24	M46
CS	226847	10000	2.0		10.0		MFM 1/25/24	B	231748	232049	6/30/24	M46
							MFM 2/13/24	C	231748	232049	6/30/24	M46
							MFM 2/13/24	D	231748	232049	6/30/24	M46
								E				
								F				
								G				
								H				
								I				
								J				
								K				
								L				
								M				
								N				
								O				
								P				
								Q				
								R				
								S				
								T				
								V				

Sample Dilutions

Final Volume: 8-10mL

Analyst: MFM
Instrument: ICP7

Date 2/27/24
Analysis 6010C

Common Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor
1/2	DI	4.5	4.5	1/2												
1/3	DI	3	6	1/3												
1/4	DI	2	6	1/4												
1/5	DI	2	8	1/5												
1/10	DI	1	9	1/10												
1/20	DI	3	3	1/2	1	9	1/20									
1/30	DI	3	6	1/3	1	9	1/30									
1/40	DI	1	3	1/4	1	9	1/40									
1/50	DI	1	4	1/5	1	9	1/50									
1/100	DI	1	9	1/10	1	9	1/100									
1/200	DI	3	3	1/2	1	9	1/20	1	9	1/200						
1/300	DI	3	6	1/3	1	9	1/30	1	9	1/300						
1/400	DI	1	3	1/4	1	9	1/40	1	9	1/400						
1/500	DI	1	4	1/5	1	9	1/50	1	9	1/500						
1/1000	DI	1	9	1/10	1	9	1/100	1	9	1/1000						
1/2000	DI	3	3	1/2	1	9	1/20	1	9	1/200	1	9	1/2000			
1/3000	DI	3	6	1/3	1	9	1/30	1	9	1/300	1	9	1/3000			
1/4000	DI	1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000			
1/10000	DI	1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000			
1/20000	DI	1	1	1/2	1	9	1/20	1	9	1/200	1	9	1/2000	1	9	1/20000
1/40000	DI	1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000	1	9	1/40000
1/100000	DI	1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000	1	9	1/100000

Special Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833186 **Method/Testcode:** 6010C/Na T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2401143-004	Sodium, Total	N/A		Water	12.75 ppm	50 mL	63.8 mg/L	5	1.4	5.0			2/22/24 15:50:00	N	II
2401143-005	Sodium, Total	N/A		Water	24.78 ppm	50 mL	124 mg/L	5	1.4	5.0			2/22/24 15:54:00	N	II
2401143-015	Sodium, Total	N/A		Water	24.82 ppm	50 mL	124 mg/L	5	1.4	5.0			2/22/24 15:57:00	N	II
2401135-004	Calcium, Total	N/A		Water	51.67 ppm	50 mL	1030000 µg/L	20	5000	20000			2/22/24 16:16:00	N	IV
2401135-004	Sodium, Total	N/A		Water	30.76 ppm	50 mL	615000 µg/L	20	6000	20000			2/22/24 16:16:00	N	IV
2401141-003	Sodium, Total	N/A		Water	26.39 ppm	50 mL	132000 µg/L	5	1400	5000			2/22/24 16:20:00	N	IV
2401141-004	Sodium, Total	N/A		Water	28.35 ppm	50 mL	567000 µg/L	20	6000	20000			2/22/24 16:23:00	N	IV
2401141-006	Sodium, Total	N/A		Water	30.56 ppm	50 mL	153000 µg/L	5	1400	5000			2/22/24 16:29:00	N	IV
2401153-002	Sodium, Total	N/A		Water	15.71 ppm	50 mL	78500 µg/L	5	1400	5000			2/22/24 16:33:00	N	IV
2401218-002	Potassium, Total	N/A		Water	19.85 ppm	50 mL	198 mg/L	10	4	20			2/22/24 16:55:00	N	II
2401218-002	Sodium, Total	N/A		Water	55.88 ppm	50 mL	559 mg/L	10	3	10			2/22/24 16:55:00	N	II
2401218-003	Potassium, Total	N/A		Water	16.89 ppm	50 mL	169 mg/L	10	4	20			2/22/24 16:58:00	N	II
2401218-003	Sodium, Total	N/A		Water	49.10 ppm	50 mL	491 mg/L	10	3	10			2/22/24 16:58:00	N	II
2401280-011	Manganese, Dissolved	N/A		Water	1.20 ppm	50 mL	120000 µg/L	100	400	1000			2/22/24 17:21:00	N	IV
2401280-017	Manganese, Dissolved	N/A		Water	0.69 ppm	50 mL	13800 µg/L	20	80	200			2/22/24 17:24:00	N	IV
2401217-010	Manganese, Total	N/A		Water	1.13 ppm	50 mL	11.3 mg/L	10	0.04	0.10			2/23/24 11:54:00	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833187 **Method/Testcode:** 6010C/Se T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R2401277-001	Selenium, Total	N/A		Soil	0.00 ppm	0.5200 g	0.96 mg/Kg # U	1	0.54	0.96			2/22/24 18:26:00	N	IV
RQ2401819-03	Selenium, Total	MS	R2401277-001	Soil	0.91 ppm	0.5100 g	89.0 mg/Kg #	1	0.54	0.98	90		2/22/24 18:29:00	N	IV
RQ2401819-04	Selenium, Total	DMS	R2401277-001	Soil	0.91 ppm	0.5200 g	87.1 mg/Kg #	1	0.54	0.96	90	2	2/22/24 18:32:00	N	IV
R2401277-001	Calcium, Total	N/A		Soil	38.66 ppm	0.5200 g	37200 mg/Kg #	10	320	960			2/22/24 18:42:00	N	IV
R2401277-001	Iron, Total	N/A		Soil	20.31 ppm	0.5200 g	19500 mg/Kg #	10	130	190			2/22/24 18:42:00	N	IV
RQ2401819-03	Calcium, Total	MS	R2401277-001	Soil	9.71 ppm	0.5100 g	9520 mg/Kg #	10	320	980	-14102*		2/22/24 18:45:00	N	IV
RQ2401819-03	Iron, Total	MS	R2401277-001	Soil	19.98 ppm	0.5100 g	19600 mg/Kg #	10	130	200	64*		2/22/24 18:45:00	N	IV
RQ2401819-04	Calcium, Total	DMS	R2401277-001	Soil	24.60 ppm	0.5200 g	23700 mg/Kg #	10	320	960	-7025*	85*	2/22/24 18:48:00	N	IV
RQ2401819-04	Iron, Total	DMS	R2401277-001	Soil	20.38 ppm	0.5200 g	19600 mg/Kg #	10	130	190	68*	<1	2/22/24 18:48:00	N	IV
R2401252-003	Copper, Total	N/A		Sludge, Solid	0.41 ppm	0.5500 g	373 mg/Kg #	10	3	18			2/22/24 19:17:00	N	II
R2401252-003	Zinc, Total	N/A		Sludge, Solid	0.72 ppm	0.5500 g	655 mg/Kg #	10	14	18			2/22/24 19:17:00	N	II
R2401252-004	Copper, Total	N/A		Sludge, Solid	0.42 ppm	0.5400 g	390 mg/Kg #	10	3	19			2/22/24 19:21:00	N	II
R2401252-004	Zinc, Total	N/A		Sludge, Solid	0.73 ppm	0.5400 g	674 mg/Kg #	10	14	19			2/22/24 19:21:00	N	II
R2401281-001	Zinc, Total	N/A		Soil	0.63 ppm	0.5100 g	819 mg/Kg	10	19	26			2/22/24 19:24:00	N	II
R2401312-001	Iron, Total	N/A		Soil	22.21 ppm	0.5300 g	21000 mg/Kg #	10	130	190			2/22/24 19:27:00	N	IV
R2401333-001	Iron, Total	N/A		Soil	13.78 ppm	0.5300 g	13000 mg/Kg #	10	130	190			2/22/24 19:30:00	N	IV
R2401333-002	Iron, Total	N/A		Soil	16.36 ppm	0.5500 g	14900 mg/Kg #	10	130	180			2/22/24 19:34:00	N	IV
R2401333-003	Iron, Total	N/A		Soil	14.63 ppm	0.5400 g	13500 mg/Kg #	10	130	190			2/22/24 19:37:00	Y	IV
RQ2401818-03	Iron, Total	MS	R2401333-003	Soil	13.44 ppm	0.5400 g	12400 mg/Kg #	10	130	190	-1196*		2/22/24 19:40:00	N	IV
RQ2401818-04	Iron, Total	DMS	R2401333-003	Soil	13.99 ppm	0.5300 g	13200 mg/Kg #	10	130	190	-376*	6	2/22/24 19:50:00	N	IV
R2401334-001	Iron, Total	N/A		Soil	17.65 ppm	0.5200 g	17000 mg/Kg #	10	130	190			2/22/24 19:59:00	N	IV
R2401334-003	Iron, Total	N/A		Soil	15.13 ppm	0.5100 g	14800 mg/Kg #	10	130	200			2/22/24 20:03:00	N	IV
R2401334-003	Lead, Total	N/A		Soil	1.88 ppm	0.5100 g	1850 mg/Kg #	10	4	49			2/22/24 20:03:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833187 **Method/Testcode:** 6010C/Se T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R2401277-001	Selenium, Total	N/A		Soil	0.00 ppm	0.5200 g	0.96 mg/Kg # U	1	0.54	0.96			2/22/24 18:26:00	N	IV
RQ2401819-03	Selenium, Total	MS	R2401277-001	Soil	0.91 ppm	0.5100 g	89.0 mg/Kg #	1	0.54	0.98	90		2/22/24 18:29:00	N	IV
RQ2401819-04	Selenium, Total	DMS	R2401277-001	Soil	0.91 ppm	0.5200 g	87.1 mg/Kg #	1	0.54	0.96	90	2	2/22/24 18:32:00	N	IV
R2401277-001	Calcium, Total	N/A		Soil	38.66 ppm	0.5200 g	37200 mg/Kg #	10	320	960			2/22/24 18:42:00	N	IV
R2401277-001	Iron, Total	N/A		Soil	20.31 ppm	0.5200 g	19500 mg/Kg #	10	130	190			2/22/24 18:42:00	N	IV
RQ2401819-03	Calcium, Total	MS	R2401277-001	Soil	9.71 ppm	0.5100 g	9520 mg/Kg #	10	320	980	-14102*		2/22/24 18:45:00	N	IV
RQ2401819-03	Iron, Total	MS	R2401277-001	Soil	19.98 ppm	0.5100 g	19600 mg/Kg #	10	130	200	64*		2/22/24 18:45:00	N	IV
RQ2401819-04	Calcium, Total	DMS	R2401277-001	Soil	24.60 ppm	0.5200 g	23700 mg/Kg #	10	320	960	-7025*	85*	2/22/24 18:48:00	N	IV
RQ2401819-04	Iron, Total	DMS	R2401277-001	Soil	20.38 ppm	0.5200 g	19600 mg/Kg #	10	130	190	68*	<1	2/22/24 18:48:00	N	IV
R2401252-003	Copper, Total	N/A		Sludge, Solid	0.41 ppm	0.5500 g	373 mg/Kg #	10	3	18			2/22/24 19:17:00	N	II
R2401252-003	Zinc, Total	N/A		Sludge, Solid	0.72 ppm	0.5500 g	655 mg/Kg #	10	14	18			2/22/24 19:17:00	N	II
R2401252-004	Copper, Total	N/A		Sludge, Solid	0.42 ppm	0.5400 g	390 mg/Kg #	10	3	19			2/22/24 19:21:00	N	II
R2401252-004	Zinc, Total	N/A		Sludge, Solid	0.73 ppm	0.5400 g	674 mg/Kg #	10	14	19			2/22/24 19:21:00	N	II
R2401281-001	Zinc, Total	N/A		Soil	0.63 ppm	0.5100 g	819 mg/Kg	10	19	26			2/22/24 19:24:00	N	II
R2401312-001	Iron, Total	N/A		Soil	22.21 ppm	0.5300 g	21000 mg/Kg #	10	130	190			2/22/24 19:27:00	N	IV
R2401333-001	Iron, Total	N/A		Soil	13.78 ppm	0.5300 g	13000 mg/Kg #	10	130	190			2/22/24 19:30:00	N	IV
R2401333-002	Iron, Total	N/A		Soil	16.36 ppm	0.5500 g	14900 mg/Kg #	10	130	180			2/22/24 19:34:00	N	IV
R2401333-003	Iron, Total	N/A		Soil	14.63 ppm	0.5400 g	13500 mg/Kg #	10	130	190			2/22/24 19:37:00	Y	IV
RQ2401818-03	Iron, Total	MS	R2401333-003	Soil	13.44 ppm	0.5400 g	12400 mg/Kg #	10	130	190	-1196*		2/22/24 19:40:00	N	IV
RQ2401818-04	Iron, Total	DMS	R2401333-003	Soil	13.99 ppm	0.5300 g	13200 mg/Kg #	10	130	190	-376*	6	2/22/24 19:50:00	N	IV
R2401334-001	Iron, Total	N/A		Soil	17.65 ppm	0.5200 g	17000 mg/Kg #	10	130	190			2/22/24 19:59:00	N	IV
R2401334-003	Iron, Total	N/A		Soil	15.13 ppm	0.5100 g	14800 mg/Kg #	10	130	200			2/22/24 20:03:00	N	IV
R2401334-003	Lead, Total	N/A		Soil	1.88 ppm	0.5100 g	1850 mg/Kg #	10	4	49			2/22/24 20:03:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Metals Cover Page

Analyst: MFM **Date:** 2/23/24 **Instrument:** ICP7

Data File: 7FEB23 **Reviewed By:** NM **Entered By:** NM

Starlims Run #	Analytes Used	Batch ID	Method	Failed Analytes	Repeats	
833320	Zn	433956	6010C Soil			TZ
	Fe	434254	6010C			CW3
833321	TAL+BMoSnSr	434379	6010C		Sr 10x R2401363-023	CW7
833322	TAL+B	434431	6010C Soil			CW5
833323	AgAsBaCdCrPbSe	434385	6010C TCLP			CW5

ICP-7 Run Log

Serial number: MY2309CQ22

Analyst: MFM Date: 2/23/24 Data File: 7FEB23

	Prep Date	Lot #
MRL	2/8/24	M8440119A
ICSA	2/12/24	M8440132F
ICSAB	2/12/24	M8440140G
Int. Std	2/13/24	M8440149D
ICV/CCV	2/23/24	M8440059B

	Prep Date	Lot #
Cal Std 1	10/2/23	M8440008B
Cal Std 2	10/2/23	M8440023B
Cal Std 5/ HLCCV1	1/31/24	M8440039B
HLCCV2	1/31/24	M8440076B
HLCCV3	1/31/24	M8440096C

(Cal Std 4 is a 1/5 and Cal Std 3 is a 1/100 dilution of Cal Std 5)

Blank Prep - Daily	NHO3	HCl	Pipet Used	DOD Pipet Verification	IEC Date
Lot	231748	233283	M37, M40	—	—

1:1	PBS-433956
1:2	LCSS-433956
1:3	MDL2-433956
1:4	PBW-434254
1:5	LCSW-434254
1:6	R2401280-018 20X
1:7	R2401280-018S 20X
1:8	R2401280-018SD 20X
1:9	R2401280-018A 20X
1:10	R2401280-018L 100X
S1:6	Continuing Calibration Verification
S1:7	Continuing Calibration Blank
S1:3	Contract Required Detection Limit
S1:4	Interference Check Solution A
S1:5	Interference Check Solution AB
S1:21	HLCCV2
S1:22	HLCCV3
S1:18	HLCCV1
S1:6	Continuing Calibration Verification
S1:7	Continuing Calibration Blank
1:11	PBW-434379
1:12	LCSW-434379
1:13	DLCSW-434379
1:14	R2401363-001
1:15	R2401363-006
1:16	R2401363-007
1:17	R2401363-008
1:18	R2401363-015
1:19	R2401363-018
1:20	R2401363-019
S1:6	Continuing Calibration Verification
S1:7	Continuing Calibration Blank
1:21	R2401363-023
1:22	R2401372-001
1:23	R2401372-002
1:24	R2401372-005
1:25	R2401372-006
1:26	R2401372-007
1:27	R2401372-008
1:28	R2401414-001
1:29	R2401414-002
1:30	R2401414-003

S1:6	Continuing Calibration Verification
S1:7	Continuing Calibration Blank
1:31	R2401415-001
1:32	R2401415-002
1:33	R2401458-001
1:34	R2401372-001 10X
1:35	R2401372-002 10X
1:36	R2401372-005 10X
1:37	R2401372-006 10X
1:38	R2401372-007 10X
1:39	R2401372-008 10X
1:40	R2401414-001 10X
S1:6	Continuing Calibration Verification
S1:7	Continuing Calibration Blank
1:41	R2401414-002 10X
1:42	R2401414-003 10X
1:43	R2401415-001 10X
1:44	R2401415-002 10X
S1:6	Continuing Calibration Verification
S1:7	Continuing Calibration Blank
S1:3	Contract Required Detection Limit
S1:4	Interference Check Solution A
S1:5	Interference Check Solution AB
S1:6	Continuing Calibration Verification
S1:7	Continuing Calibration Blank
2:1	PBS-434431
2:2	LCSS-434431
2:3	R2401379-001
2:4	R2401435-001
2:5	R2401439-001
2:6	R2401442-002
2:7	R2401442-003
2:8	R2401442-003S
2:9	R2401442-003SD
2:10	R2401442-003A
S1:8	Continuing Calibration Verification1
S1:9	Continuing Calibration Blank1
2:11	R2401442-003L 5X
2:12	R2401379-001 10X
2:13	R2401435-001 10X
2:14	R2401439-001 10X
2:15	R2401442-002 10X

2:16	R2401442-003 10X
2:17	R2401442-003S 10X
2:18	R2401442-003SD 10X
2:19	R2401442-003A 10X
2:20	R2401442-003L 50X
S1:8	Continuing Calibration Verification1
S1:9	Continuing Calibration Blank1
S1:3	Contract Required Detection Limit
S1:4	Interference Check Solution A
S1:5	Interference Check Solution AB
S1:8	Continuing Calibration Verification1
S1:9	Continuing Calibration Blank1
1:45	PBT-434385
1:46	LCST-434385
1:47	RQ2401817-01
1:48	RQ2401820-01
1:49	R2401202-001
1:50	R2401202-002
1:51	R2401278-001
1:52	R2401278-001S
1:53	R2401278-001SD
1:54	R2401278-001A
S1:8	Continuing Calibration Verification1
S1:9	Continuing Calibration Blank1
1:55	R2401278-001L 5X
S1:8	Continuing Calibration Verification1
S1:9	Continuing Calibration Blank1
S1:3	Contract Required Detection Limit
S1:4	Interference Check Solution A
S1:5	Interference Check Solution AB
S1:8	Continuing Calibration Verification1
S1:9	Continuing Calibration Blank1

MFM 2/23/24

Created Date/Time	2/23/2024 12:04:04	Software Version	7.6.1.12212
Instrument Name	MY2309CQ22	Firmware Version	5590
File Path	C:\Agilent\ICP Expert\My Results\2024\7FEB23.esws		
Notes	MFM 2/23/24		

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
2/23/2024 13:17:24	Blank	Ag (328.068 nm)	0.0000	N/A	-251.3937
	Blank	Al (237.312 nm)	0.0000	N/A	65.4676
	Blank	As (188.980 nm)	0.0000	N/A	-14.9540
	Blank	B (249.772 nm)	0.0000	N/A	36.7120
	Blank	Ba (230.424 nm)	0.0000	N/A	-5.3762
	Blank	Be (313.107 nm)	0.0000	N/A	-201.1907
	Blank	Ca (317.933 nm)	0.0000	N/A	2612.5511
	Blank	Cd (214.439 nm)	0.0000	N/A	-7.4433
	Blank	Co (230.786 nm)	0.0000	N/A	55.8106
	Blank	Cr (267.716 nm)	0.0000	N/A	-14.0532
	Blank	Cu (327.395 nm)	0.0000	N/A	33.6945
	Blank	Fe (234.350 nm)	0.0000	N/A	191.7250
	Blank	K (766.491 nm)	0.0000	N/A	-256.6919
	Blank	Mg (279.078 nm)	0.0000	N/A	-26.4972
	Blank	Mn (257.610 nm)	0.0000	N/A	-10.7469
	Blank	Mo (202.032 nm)	0.0000	N/A	-7.4688
	Blank	Na (588.995 nm)	0.0000	N/A	-10976.3850
	Blank	Ni (230.299 nm)	0.0000	N/A	71.6415
	Blank	Pb (220.353 nm)	0.0000	N/A	15.7931
	Blank	Sb (217.582 nm)	0.0000	N/A	2.9592
	Blank	Se (196.026 nm)	0.0000	N/A	2.0131
	Blank	Sn (189.925 nm)	0.0000	N/A	7.1304
	Blank	Sr (216.596 nm)	0.0000	N/A	-41.9230
	Blank	Ti (336.122 nm)	0.0000	N/A	-196.3432
	Blank	Tl (190.794 nm)	0.0000	N/A	-0.7533
	Blank	V (292.401 nm)	0.0000	N/A	-49.8367
	Blank	Y (360.074 nm)	1.00	0.00	476724.56
	Blank	Y_R (360.074 nm)	1.00	0.00	476954.70
	Blank	Zn (213.857 nm)	0.0000	N/A	-39.6304
2/23/2024 13:20:39	Standard 1	Ag (328.068 nm)		N/A	-249.9372
	Standard 1	Al (237.312 nm)		N/A	109.3547
	Standard 1	As (188.980 nm)	0.0050	N/A	-5.8186
	Standard 1	B (249.772 nm)		N/A	42.9362
	Standard 1	Ba (230.424 nm)	0.0200	N/A	1040.8272
	Standard 1	Be (313.107 nm)		N/A	-194.4249
	Standard 1	Ca (317.933 nm)		N/A	22870.1549
	Standard 1	Cd (214.439 nm)	0.0010	N/A	64.5433
	Standard 1	Co (230.786 nm)	0.0030	N/A	98.6835
	Standard 1	Cr (267.716 nm)	0.0050	N/A	200.4507
	Standard 1	Cu (327.395 nm)	0.0100	N/A	445.9795
	Standard 1	Fe (234.350 nm)		N/A	474.8496
	Standard 1	K (766.491 nm)		N/A	1638.1451
	Standard 1	Mg (279.078 nm)		N/A	1483.5605
	Standard 1	Mn (257.610 nm)	0.0100	N/A	3446.3152
	Standard 1	Mo (202.032 nm)	0.0250	N/A	186.9569
	Standard 1	Na (588.995 nm)		N/A	-5682.9634
	Standard 1	Ni (230.299 nm)		N/A	59.9781
	Standard 1	Pb (220.353 nm)	0.0050	N/A	43.8963
	Standard 1	Sb (217.582 nm)	0.0100	N/A	26.3562
	Standard 1	Se (196.026 nm)		N/A	1.0507
	Standard 1	Sn (189.925 nm)		N/A	7.5278
	Standard 1	Sr (216.596 nm)		N/A	-44.3167

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Standard 1	Ti (336.122 nm)		N/A	-287.2608
	Standard 1	Tl (190.794 nm)	0.0100	N/A	7.4866
	Standard 1	V (292.401 nm)	0.0030	N/A	67.0679
	Standard 1	Y (360.074 nm)	0.99	0.43	472787.23
	Standard 1	Y_R (360.074 nm)	0.99	0.43	473009.67
	Standard 1	Zn (213.857 nm)	0.0100	N/A	491.6068
2/23/2024 13:23:54	Standard 2	Ag (328.068 nm)		N/A	-257.1173
	Standard 2	Al (237.312 nm)	0.1000	N/A	303.7832
	Standard 2	As (188.980 nm)	0.0100	N/A	5.3505
	Standard 2	B (249.772 nm)	0.2000	N/A	6621.1769
	Standard 2	Ba (230.424 nm)		N/A	-2.2302
	Standard 2	Be (313.107 nm)	0.0030	N/A	2928.9332
	Standard 2	Ca (317.933 nm)	1.0000	N/A	42160.2905
	Standard 2	Cd (214.439 nm)	0.0050	N/A	323.3523
	Standard 2	Co (230.786 nm)		N/A	48.9432
	Standard 2	Cr (267.716 nm)		N/A	-18.1270
	Standard 2	Cu (327.395 nm)	0.0200	N/A	865.1177
	Standard 2	Fe (234.350 nm)		N/A	206.4184
	Standard 2	K (766.491 nm)	2.0000	N/A	1708.6916
	Standard 2	Mg (279.078 nm)	1.0000	N/A	2987.0263
	Standard 2	Mn (257.610 nm)		N/A	6.2209
	Standard 2	Mo (202.032 nm)		N/A	-4.0601
	Standard 2	Na (588.995 nm)	1.0000	N/A	-101.8232
	Standard 2	Ni (230.299 nm)		N/A	56.0661
	Standard 2	Pb (220.353 nm)	0.0500	N/A	304.4584
	Standard 2	Sb (217.582 nm)	0.0600	N/A	145.8696
	Standard 2	Se (196.026 nm)	0.0100	N/A	9.9256
	Standard 2	Sn (189.925 nm)	0.5000	N/A	1508.2631
	Standard 2	Sr (216.596 nm)		N/A	-42.4927
	Standard 2	Ti (336.122 nm)		N/A	-280.3833
	Standard 2	Tl (190.794 nm)		N/A	-3.5672
	Standard 2	V (292.401 nm)		N/A	-61.2645
	Standard 2	Y (360.074 nm)	0.99	0.21	473379.31
	Standard 2	Y_R (360.074 nm)	0.99	0.21	473608.60
	Standard 2	Zn (213.857 nm)		N/A	-58.2995
2/23/2024 13:27:09	Standard 3	Ag (328.068 nm)	0.0100	N/A	333.1216
	Standard 3	Al (237.312 nm)		N/A	554.5690
	Standard 3	As (188.980 nm)		N/A	18.9979
	Standard 3	B (249.772 nm)		N/A	1647.0446
	Standard 3	Ba (230.424 nm)		N/A	10262.8884
	Standard 3	Be (313.107 nm)	0.0050	N/A	5074.1626
	Standard 3	Ca (317.933 nm)	0.5000	N/A	22445.0822
	Standard 3	Cd (214.439 nm)		N/A	654.8553
	Standard 3	Co (230.786 nm)	0.0500	N/A	867.9448
	Standard 3	Cr (267.716 nm)	0.0100	N/A	424.6893
	Standard 3	Cu (327.395 nm)		N/A	1051.3726
	Standard 3	Fe (234.350 nm)	0.1000	N/A	2428.9816
	Standard 3	K (766.491 nm)	0.5000	N/A	190.9160
	Standard 3	Mg (279.078 nm)	0.5000	N/A	1476.1823
	Standard 3	Mn (257.610 nm)		N/A	5118.0570
	Standard 3	Mo (202.032 nm)		N/A	371.2286
	Standard 3	Na (588.995 nm)	0.5000	N/A	-5509.5782
	Standard 3	Ni (230.299 nm)	0.0400	N/A	566.5314
	Standard 3	Pb (220.353 nm)		N/A	71.9904
	Standard 3	Sb (217.582 nm)		N/A	234.0018
	Standard 3	Se (196.026 nm)		N/A	9.1681
	Standard 3	Sn (189.925 nm)		N/A	308.1929

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Standard 3	Sr (216.596 nm)	0.0500	N/A	974.9567
	Standard 3	Ti (336.122 nm)	0.0500	N/A	5996.1699
	Standard 3	Tl (190.794 nm)	0.0200	N/A	20.4525
	Standard 3	V (292.401 nm)	0.0500	N/A	1891.4352
	Standard 3	Y (360.074 nm)	0.99	0.36	473671.88
	Standard 3	Y_R (360.074 nm)	0.99	0.36	473912.36
	Standard 3	Zn (213.857 nm)	0.0200	N/A	1033.6332
2/23/2024 13:30:24	Standard 4	Ag (328.068 nm)	0.2000	N/A	11478.4241
	Standard 4	Al (237.312 nm)	4.0000	N/A	10063.3830
	Standard 4	As (188.980 nm)	0.4000	N/A	685.0158
	Standard 4	B (249.772 nm)	1.0000	N/A	33246.9140
	Standard 4	Ba (230.424 nm)	4.0000	N/A	204759.2227
	Standard 4	Be (313.107 nm)	0.1000	N/A	108282.2732
	Standard 4	Ca (317.933 nm)	10.0000	N/A	399900.9233
	Standard 4	Cd (214.439 nm)	0.2000	N/A	13270.4789
	Standard 4	Co (230.786 nm)	1.0000	N/A	16293.4934
	Standard 4	Cr (267.716 nm)	0.2000	N/A	8769.6204
	Standard 4	Cu (327.395 nm)	0.5000	N/A	20672.4600
	Standard 4	Fe (234.350 nm)	2.0000	N/A	44366.7044
	Standard 4	K (766.491 nm)	10.0000	N/A	9353.2503
	Standard 4	Mg (279.078 nm)	10.0000	N/A	30146.2762
	Standard 4	Mn (257.610 nm)	0.3000	N/A	101259.3363
	Standard 4	Mo (202.032 nm)	1.0000	N/A	7895.5953
	Standard 4	Na (588.995 nm)	10.0000	N/A	101916.4216
	Standard 4	Ni (230.299 nm)	0.8000	N/A	10155.9948
	Standard 4	Pb (220.353 nm)	0.2000	N/A	1152.7957
	Standard 4	Sb (217.582 nm)	2.0000	N/A	4649.3885
	Standard 4	Se (196.026 nm)	0.2000	N/A	150.2790
	Standard 4	Sn (189.925 nm)	2.0000	N/A	6039.9790
	Standard 4	Sr (216.596 nm)	1.0000	N/A	20286.0507
	Standard 4	Ti (336.122 nm)	1.0000	N/A	127132.0019
	Standard 4	Tl (190.794 nm)	0.4000	N/A	437.8108
	Standard 4	V (292.401 nm)	1.0000	N/A	39537.8427
	Standard 4	Y (360.074 nm)	0.97	0.27	464331.25
	Standard 4	Y_R (360.074 nm)	0.97	0.27	464554.42
	Standard 4	Zn (213.857 nm)	0.4000	N/A	21968.6393
2/23/2024 13:33:39	Standard 5	Ag (328.068 nm)	1.0000	N/A	58706.0409
	Standard 5	Al (237.312 nm)	20.0000	N/A	50569.8623
	Standard 5	As (188.980 nm)	2.0000	N/A	3565.0029
	Standard 5	B (249.772 nm)	5.0000	N/A	169767.0771
	Standard 5	Ba (230.424 nm)	20.0000	N/A	987658.3217
	Standard 5	Be (313.107 nm)	0.5000	N/A	542628.3699
	Standard 5	Ca (317.933 nm)	50.0000	N/A	1945192.5598
	Standard 5	Cd (214.439 nm)	1.0000	N/A	65145.0898
	Standard 5	Co (230.786 nm)	5.0000	N/A	79313.6179
	Standard 5	Cr (267.716 nm)	1.0000	N/A	43254.6020
	Standard 5	Cu (327.395 nm)	2.5000	N/A	104236.6045
	Standard 5	Fe (234.350 nm)	10.0000	N/A	218514.1894
	Standard 5	K (766.491 nm)	50.0000	N/A	49987.8150
	Standard 5	Mg (279.078 nm)	50.0000	N/A	151718.8008
	Standard 5	Mn (257.610 nm)	1.5000	N/A	498314.2251
	Standard 5	Mo (202.032 nm)	5.0000	N/A	39940.0012
	Standard 5	Na (588.995 nm)	50.0000	N/A	559055.4579
	Standard 5	Ni (230.299 nm)	4.0000	N/A	49136.4127
	Standard 5	Pb (220.353 nm)	1.0000	N/A	5512.6172
	Standard 5	Sb (217.582 nm)	10.0000	N/A	23685.5613
	Standard 5	Se (196.026 nm)	1.0000	N/A	754.0170

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Standard 5	Sn (189.925 nm)	10.0000	N/A	29786.0171
	Standard 5	Sr (216.596 nm)	5.0000	N/A	99275.6993
	Standard 5	Ti (336.122 nm)	5.0000	N/A	636872.9700
	Standard 5	Tl (190.794 nm)	2.0000	N/A	2138.4958
	Standard 5	V (292.401 nm)	5.0000	N/A	198571.0296
	Standard 5	Y (360.074 nm)	0.93	0.38	445279.40
	Standard 5	Y_R (360.074 nm)	0.93	0.39	445456.85
	Standard 5	Zn (213.857 nm)	2.0000	N/A	110561.8361
2/23/2024 13:37:24	Initial Calibration Verification	Ag (328.068 nm)	0.5175	0.07	30250.2154
	Initial Calibration Verification	Al (237.312 nm)	9.9178	0.08	25100.3154
	Initial Calibration Verification	As (188.980 nm)	0.9852	0.38	1747.0645
	Initial Calibration Verification	B (249.772 nm)	2.4141	0.10	81914.4417
	Initial Calibration Verification	Ba (230.424 nm)	10.2218	0.32	505489.3439
	Initial Calibration Verification	Be (313.107 nm)	0.2407	0.09	261157.6260
	Initial Calibration Verification	Ca (317.933 nm)	25.6545	0.24	1000203.4198
	Initial Calibration Verification	Cd (214.439 nm)	0.5037	0.15	32835.1729
	Initial Calibration Verification	Co (230.786 nm)	2.5345	0.20	40268.9166
	Initial Calibration Verification	Cr (267.716 nm)	0.5166	0.22	22351.7408
	Initial Calibration Verification	Cu (327.395 nm)	1.2309	0.15	51318.9452
	Initial Calibration Verification	Fe (234.350 nm)	5.0080	0.21	109577.5769
	Initial Calibration Verification	K (766.491 nm)	24.2091	0.26	24028.8734
	Initial Calibration Verification	Mg (279.078 nm)	25.2250	0.13	76511.5001
	Initial Calibration Verification	Mn (257.610 nm)	0.7459	0.14	247931.4645
	Initial Calibration Verification	Mo (202.032 nm)	2.5350	0.44	20237.1953
	Initial Calibration Verification	Na (588.995 nm)	24.9918	0.18	273832.7179
	Initial Calibration Verification	Ni (230.299 nm)	2.0981	0.11	25834.1400
	Initial Calibration Verification	Pb (220.353 nm)	0.5051	0.18	2796.0803
	Initial Calibration Verification	Sb (217.582 nm)	4.9156	0.09	11635.8558
	Initial Calibration Verification	Se (196.026 nm)	0.4833	0.63	365.2644
	Initial Calibration Verification	Sn (189.925 nm)	5.0272	0.22	14985.2561
	Initial Calibration Verification	Sr (216.596 nm)	2.4849	0.29	49361.2502
	Initial Calibration Verification	Ti (336.122 nm)	2.5245	0.13	321456.8414
	Initial Calibration Verification	Tl (190.794 nm)	1.0046	0.17	1074.8447
	Initial Calibration Verification	V (292.401 nm)	2.5053	0.16	99459.6350
	Initial Calibration Verification	Y (360.074 nm)	0.96	0.35	455941.65
	Initial Calibration Verification	Y_R (360.074 nm)	0.96	0.34	456100.12
	Initial Calibration Verification	Zn (213.857 nm)	0.9916	0.22	54787.8760
2/23/2024 13:40:37	Initial Calibration Blank	Ag (328.068 nm)	-0.0001 u	> 100.00	-256.1858
	Initial Calibration Blank	Al (237.312 nm)	-0.0005 u	> 100.00	64.1777
	Initial Calibration Blank	As (188.980 nm)	0.0038	55.15	-8.2031
	Initial Calibration Blank	B (249.772 nm)	0.0024	11.83	117.7474
	Initial Calibration Blank	Ba (230.424 nm)	0.0002	33.06	4.4561
	Initial Calibration Blank	Be (313.107 nm)	0.0000	65.49	-182.5156
	Initial Calibration Blank	Ca (317.933 nm)	0.0022	10.20	2697.1954
	Initial Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	-5.0778
	Initial Calibration Blank	Co (230.786 nm)	0.0001 u	> 100.00	57.8878
	Initial Calibration Blank	Cr (267.716 nm)	-0.0001 u	> 100.00	-18.6735
	Initial Calibration Blank	Cu (327.395 nm)	0.0000 u	> 100.00	34.5316
	Initial Calibration Blank	Fe (234.350 nm)	0.0034	17.30	265.5901
	Initial Calibration Blank	K (766.491 nm)	0.1104	22.68	-145.9396
	Initial Calibration Blank	Mg (279.078 nm)	-0.0006 u	> 100.00	-28.4425
	Initial Calibration Blank	Mn (257.610 nm)	0.0000	94.15	-3.8866
	Initial Calibration Blank	Mo (202.032 nm)	0.0070	13.64	48.7348
	Initial Calibration Blank	Na (588.995 nm)	0.0135	13.63	-10822.6279
	Initial Calibration Blank	Ni (230.299 nm)	-0.0001 u	> 100.00	70.6299
	Initial Calibration Blank	Pb (220.353 nm)	-0.0004 u	> 100.00	13.5354
	Initial Calibration Blank	Sb (217.582 nm)	0.0119 Z	16.94	31.2240 Z

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Initial Calibration Blank	Se (196.026 nm)	-0.0003 u	> 100.00	1.8070
	Initial Calibration Blank	Sn (189.925 nm)	0.0020	19.86	13.0299
	Initial Calibration Blank	Sr (216.596 nm)	0.0001 u	> 100.00	-40.0550
	Initial Calibration Blank	Ti (336.122 nm)	0.0069	26.85	683.6302
	Initial Calibration Blank	Tl (190.794 nm)	-0.0015 u	43.73	-2.3464
	Initial Calibration Blank	V (292.401 nm)	-0.0002 u	62.27	-56.8186
	Initial Calibration Blank	Y (360.074 nm)	1.00	0.16	475932.83
	Initial Calibration Blank	Y_R (360.074 nm)	1.00	0.16	476016.40
	Initial Calibration Blank	Zn (213.857 nm)	0.0001	53.58	-31.6184
2/23/2024 13:43:51	Contract Required Detection Limit	Ag (328.068 nm)	0.0097	0.68	319.3836
	Contract Required Detection Limit	Al (237.312 nm)	0.1928	0.29	552.0620
	Contract Required Detection Limit	As (188.980 nm)	0.0205	19.52	21.6982
	Contract Required Detection Limit	B (249.772 nm)	0.1917	0.05	6539.8056
	Contract Required Detection Limit	Ba (230.424 nm)	0.2060	0.08	10180.8378
	Contract Required Detection Limit	Be (313.107 nm)	0.0048	0.22	5052.4392
	Contract Required Detection Limit	Ca (317.933 nm)	1.0143	0.14	42055.1475
	Contract Required Detection Limit	Cd (214.439 nm)	0.0102	0.74	660.0542
	Contract Required Detection Limit	Co (230.786 nm)	0.0508	0.95	862.0630
	Contract Required Detection Limit	Cr (267.716 nm)	0.0101	1.61	422.5456
	Contract Required Detection Limit	Cu (327.395 nm)	0.0244	0.60	1050.3458
	Contract Required Detection Limit	Fe (234.350 nm)	0.1081	0.55	2553.2030
	Contract Required Detection Limit	K (766.491 nm)	0.9821	2.51	728.5459
	Contract Required Detection Limit	Mg (279.078 nm)	0.9800	0.34	2947.1771
	Contract Required Detection Limit	Mn (257.610 nm)	0.0153	0.26	5068.0067
	Contract Required Detection Limit	Mo (202.032 nm)	0.0254	1.46	195.4693
	Contract Required Detection Limit	Na (588.995 nm)	0.9353	0.14	-317.3494
	Contract Required Detection Limit	Ni (230.299 nm)	0.0399	0.70	561.9817
	Contract Required Detection Limit	Pb (220.353 nm)	0.0098	14.84	69.6562
	Contract Required Detection Limit	Sb (217.582 nm)	0.0644	1.12	155.3605
	Contract Required Detection Limit	Se (196.026 nm)	0.0073 R 731.	45.87	7.5146 R
	Contract Required Detection Limit	Sn (189.925 nm)	0.5019	0.48	1502.6406
	Contract Required Detection Limit	Sr (216.596 nm)	0.1004	0.39	1954.5717
	Contract Required Detection Limit	Ti (336.122 nm)	0.0514	2.31	6358.7113
	Contract Required Detection Limit	Tl (190.794 nm)	0.0182	2.39	18.7430
	Contract Required Detection Limit	V (292.401 nm)	0.0490	0.88	1894.4256
	Contract Required Detection Limit	Y (360.074 nm)	0.99	0.39	471650.19
	Contract Required Detection Limit	Y_R (360.074 nm)	0.99	0.39	471800.14
	Contract Required Detection Limit	Zn (213.857 nm)	0.0192	0.21	1019.7967
2/23/2024 13:47:05	Interference Check Solution A	Ag (328.068 nm)	-0.0001 u	> 100.00	-257.3658
	Interference Check Solution A	Al (237.312 nm)	253.4704 o	0.10	639882.0571
	Interference Check Solution A	As (188.980 nm)	-0.0041 u	> 100.00	-22.3605
	Interference Check Solution A	B (249.772 nm)	0.1032	0.16	3535.4659
	Interference Check Solution A	Ba (230.424 nm)	0.0010	17.07	44.5065
	Interference Check Solution A	Be (313.107 nm)	0.0000 u	56.96	-208.1508
	Interference Check Solution A	Ca (317.933 nm)	240.1573 o	0.16	9341288.1571
	Interference Check Solution A	Cd (214.439 nm)	0.0007	21.50	35.1876
	Interference Check Solution A	Co (230.786 nm)	0.0021	8.18	88.9471
	Interference Check Solution A	Cr (267.716 nm)	0.0007	1.70	16.6607
	Interference Check Solution A	Cu (327.395 nm)	0.0007	27.08	64.4433
	Interference Check Solution A	Fe (234.350 nm)	94.1008 o	0.18	2055552.0739
	Interference Check Solution A	K (766.491 nm)	0.0390	32.22	-217.6092
	Interference Check Solution A	Mg (279.078 nm)	262.2954 o	0.14	795834.7861
	Interference Check Solution A	Mn (257.610 nm)	0.0014	1.12	456.3549
	Interference Check Solution A	Mo (202.032 nm)	-0.0003 u	> 100.00	-9.9410
	Interference Check Solution A	Na (588.995 nm)	-0.0883 u	8.59	-11983.1140
	Interference Check Solution A	Ni (230.299 nm)	0.0020	22.91	96.7762
	Interference Check Solution A	Pb (220.353 nm)	0.0018	70.36	25.7066

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Interference Check Solution A	Sb (217.582 nm)	-0.0141 Ku +/-.047	24.05	-30.3125 K
	Interference Check Solution A	Se (196.026 nm)	-0.0045 u	> 100.00	-1.3751
	Interference Check Solution A	Sn (189.925 nm)	0.0031	14.07	16.2726
	Interference Check Solution A	Sr (216.596 nm)	0.0099	1.49	155.1778
	Interference Check Solution A	Ti (336.122 nm)	0.0033	21.08	219.7418
	Interference Check Solution A	Tl (190.794 nm)	-0.0018 u	> 100.00	-2.7051
	Interference Check Solution A	V (292.401 nm)	0.0018	5.65	21.2592
	Interference Check Solution A	Y (360.074 nm)	0.87	0.43	417120.29
	Interference Check Solution A	Y_R (360.074 nm)	0.87	0.43	417323.71
	Interference Check Solution A	Zn (213.857 nm)	0.0126 K +/-.002	0.83	655.6198 K
2/23/2024 13:50:18	Interference Check Solution AB	Ag (328.068 nm)	0.2054	0.14	11858.1400
	Interference Check Solution AB	Al (237.312 nm)	256.0648 o	0.04	646431.0776
	Interference Check Solution AB	As (188.980 nm)	0.0935	1.26	152.2614
	Interference Check Solution AB	B (249.772 nm)	0.1173	0.15	4016.3368
	Interference Check Solution AB	Ba (230.424 nm)	0.5275	0.09	26079.9269
	Interference Check Solution AB	Be (313.107 nm)	0.4846	0.11	525854.9657
	Interference Check Solution AB	Ca (317.933 nm)	242.4058 o	0.19	9428723.2656
	Interference Check Solution AB	Cd (214.439 nm)	0.9815	0.17	63986.3757
	Interference Check Solution AB	Co (230.786 nm)	0.4889	0.12	7812.5386
	Interference Check Solution AB	Cr (267.716 nm)	0.5078	0.16	21968.6344
	Interference Check Solution AB	Cu (327.395 nm)	0.5313	0.06	22171.3844
	Interference Check Solution AB	Fe (234.350 nm)	94.9534 o	0.17	2074173.7597
	Interference Check Solution AB	K (766.491 nm)	-0.0043 u	> 100.00	-261.0482
	Interference Check Solution AB	Mg (279.078 nm)	264.7493 o	0.19	803280.4015
	Interference Check Solution AB	Mn (257.610 nm)	0.4928	0.13	163821.8103
	Interference Check Solution AB	Mo (202.032 nm)	-0.0004 u	> 100.00	-11.0307
	Interference Check Solution AB	Na (588.995 nm)	-0.0787 u	3.87	-11873.8119
	Interference Check Solution AB	Ni (230.299 nm)	0.9968	0.08	12311.8155
	Interference Check Solution AB	Pb (220.353 nm)	0.0514	1.71	298.6151
	Interference Check Solution AB	Sb (217.582 nm)	0.6072	0.53	1439.8128
	Interference Check Solution AB	Se (196.026 nm)	0.0483	3.70	38.3075
	Interference Check Solution AB	Sn (189.925 nm)	0.0038	33.27	18.4087
	Interference Check Solution AB	Sr (216.596 nm)	0.0100	2.42	156.2224
	Interference Check Solution AB	Ti (336.122 nm)	0.0028	16.75	158.0882
	Interference Check Solution AB	Tl (190.794 nm)	0.1006	3.74	106.9922
	Interference Check Solution AB	V (292.401 nm)	0.5065	0.20	20067.6662
	Interference Check Solution AB	Y (360.074 nm)	0.87	0.31	416842.65
	Interference Check Solution AB	Y_R (360.074 nm)	0.87	0.31	417056.11
	Interference Check Solution AB	Zn (213.857 nm)	1.0258	0.09	56674.7093
2/23/2024 13:53:32	Continuing Calibration Verification	Ag (328.068 nm)	0.5174	0.05	30248.8653
	Continuing Calibration Verification	Al (237.312 nm)	9.9524	0.11	25187.5141
	Continuing Calibration Verification	As (188.980 nm)	0.9856	0.43	1747.6743
	Continuing Calibration Verification	B (249.772 nm)	2.4192	0.06	82085.6530
	Continuing Calibration Verification	Ba (230.424 nm)	10.2418	0.13	506479.6041
	Continuing Calibration Verification	Be (313.107 nm)	0.2415	0.07	261992.2509
	Continuing Calibration Verification	Ca (317.933 nm)	25.6735	0.07	1000945.6781
	Continuing Calibration Verification	Cd (214.439 nm)	0.5038	0.07	32838.5877
	Continuing Calibration Verification	Co (230.786 nm)	2.5357	0.43	40288.2362
	Continuing Calibration Verification	Cr (267.716 nm)	0.5147	0.10	22267.4886
	Continuing Calibration Verification	Cu (327.395 nm)	1.2360	0.11	51533.0557
	Continuing Calibration Verification	Fe (234.350 nm)	5.0293	0.07	110042.7127
	Continuing Calibration Verification	K (766.491 nm)	24.1463	0.18	23965.8735
	Continuing Calibration Verification	Mg (279.078 nm)	25.1983	0.02	76430.7663
	Continuing Calibration Verification	Mn (257.610 nm)	0.7456	0.11	247831.6694
	Continuing Calibration Verification	Mo (202.032 nm)	2.5297	0.58	20194.7454
	Continuing Calibration Verification	Na (588.995 nm)	25.0145	0.18	274091.8904
	Continuing Calibration Verification	Ni (230.299 nm)	2.0977	0.05	25830.2016

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	Pb (220.353 nm)	0.5041	0.33	2790.8966
	Continuing Calibration Verification	Sb (217.582 nm)	4.9118	0.16	11626.8939
	Continuing Calibration Verification	Se (196.026 nm)	0.4845	0.93	366.1734
	Continuing Calibration Verification	Sn (189.925 nm)	5.0162	0.19	14952.4026
	Continuing Calibration Verification	Sr (216.596 nm)	2.4992	0.36	49646.2455
	Continuing Calibration Verification	Ti (336.122 nm)	2.5113	0.07	319767.2044
	Continuing Calibration Verification	Tl (190.794 nm)	1.0086	0.27	1079.0719
	Continuing Calibration Verification	V (292.401 nm)	2.5029	0.10	99363.3086
	Continuing Calibration Verification	Y (360.074 nm)	0.95	0.35	455157.59
	Continuing Calibration Verification	Y_R (360.074 nm)	0.95	0.35	455391.29
	Continuing Calibration Verification	Zn (213.857 nm)	0.9928	0.35	54854.5009
2/23/2024 13:56:46	Continuing Calibration Blank	Ag (328.068 nm)	0.0001 u	> 100.00	-247.0043
	Continuing Calibration Blank	Al (237.312 nm)	-0.0011 u	85.33	62.6265
	Continuing Calibration Blank	As (188.980 nm)	0.0037	46.40	-8.3774
	Continuing Calibration Blank	B (249.772 nm)	0.0014	24.31	82.5387
	Continuing Calibration Blank	Ba (230.424 nm)	0.0001 u	> 100.00	-0.3366
	Continuing Calibration Blank	Be (313.107 nm)	0.0000 u	> 100.00	-200.4160
	Continuing Calibration Blank	Ca (317.933 nm)	0.0002 u	> 100.00	2619.8114
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	-5.7348
	Continuing Calibration Blank	Co (230.786 nm)	-0.0002 u	47.26	53.3956
	Continuing Calibration Blank	Cr (267.716 nm)	-0.0001 u	> 100.00	-17.5473
	Continuing Calibration Blank	Cu (327.395 nm)	-0.0001 u	99.28	28.5985
	Continuing Calibration Blank	Fe (234.350 nm)	0.0039	22.94	276.5306
	Continuing Calibration Blank	K (766.491 nm)	0.0727	57.80	-183.7187
	Continuing Calibration Blank	Mg (279.078 nm)	0.0010	62.37	-23.3407
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000	31.09	-4.7348
	Continuing Calibration Blank	Mo (202.032 nm)	0.0064	6.65	43.9449
	Continuing Calibration Blank	Na (588.995 nm)	0.0057	63.06	-10911.1995
	Continuing Calibration Blank	Ni (230.299 nm)	-0.0002 u	> 100.00	68.8153
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0005 u	> 100.00	13.0094
	Continuing Calibration Blank	Sb (217.582 nm)	0.0073	11.24	20.3459
	Continuing Calibration Blank	Se (196.026 nm)	-0.0030 u	57.62	-0.2170
	Continuing Calibration Blank	Sn (189.925 nm)	0.0012	32.06	10.8109
	Continuing Calibration Blank	Sr (216.596 nm)	0.0000 u	> 100.00	-41.1466
	Continuing Calibration Blank	Ti (336.122 nm)	0.0059	27.92	554.6217
	Continuing Calibration Blank	Tl (190.794 nm)	-0.0005 u	66.71	-1.2865
	Continuing Calibration Blank	V (292.401 nm)	0.0000 u	> 100.00	-51.5636
	Continuing Calibration Blank	Y (360.074 nm)	1.00	0.10	475483.31
	Continuing Calibration Blank	Y_R (360.074 nm)	1.00	0.10	475714.67
	Continuing Calibration Blank	Zn (213.857 nm)	0.0001	61.03	-36.4308
2/23/2024 14:00:06	PBS-433956	Ag (328.068 nm)	0.0001 u	> 100.00	-247.8631
	PBS-433956	Al (237.312 nm)	0.0007 u	> 100.00	67.1923
	PBS-433956	As (188.980 nm)	0.0035	13.47	-8.6781
	PBS-433956	B (249.772 nm)	0.0017	3.52	94.7392
	PBS-433956	Ba (230.424 nm)	0.0001	19.83	0.6847
	PBS-433956	Be (313.107 nm)	0.0000 u	> 100.00	-189.2122
	PBS-433956	Ca (317.933 nm)	0.0104	0.72	3015.8801
	PBS-433956	Cd (214.439 nm)	0.0001	57.73	-2.5649
	PBS-433956	Co (230.786 nm)	-0.0002 u	> 100.00	51.9647
	PBS-433956	Cr (267.716 nm)	0.0005	18.05	6.0992
	PBS-433956	Cu (327.395 nm)	0.0000 u	> 100.00	35.1467
	PBS-433956	Fe (234.350 nm)	0.0116	9.13	444.8055
	PBS-433956	K (766.491 nm)	0.0537	70.70	-202.7935
	PBS-433956	Mg (279.078 nm)	0.0015	70.10	-21.8193
	PBS-433956	Mn (257.610 nm)	0.0002	10.88	44.1147
	PBS-433956	Mo (202.032 nm)	0.0015	29.48	4.2500
	PBS-433956	Na (588.995 nm)	0.0021 u	> 100.00	-10952.6065

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	PBS-433956	Ni (230.299 nm)	-0.0011 u	37.43	58.1825
	PBS-433956	Pb (220.353 nm)	-0.0002 u	> 100.00	14.8524
	PBS-433956	Sb (217.582 nm)	0.0092	10.20	24.7828
	PBS-433956	Se (196.026 nm)	0.0007 u	> 100.00	2.5355
	PBS-433956	Sn (189.925 nm)	0.0139	3.74	48.6394
	PBS-433956	Sr (216.596 nm)	0.0000 u	> 100.00	-41.3202
	PBS-433956	Ti (336.122 nm)	0.0025	37.31	119.2010
	PBS-433956	Tl (190.794 nm)	-0.0026 u	12.13	-3.5738
	PBS-433956	V (292.401 nm)	0.0000 u	> 100.00	-48.4765
	PBS-433956	Y (360.074 nm)	1.00	0.58	475970.79
	PBS-433956	Y_R (360.074 nm)	1.00	0.58	476221.30
	PBS-433956	Zn (213.857 nm)	-0.0002 u	37.07	-49.7383
2/23/2024 14:03:20	LCSS-433956	Ag (328.068 nm)	0.0473	0.46	2534.0899
	LCSS-433956	Al (237.312 nm)	1.7923	0.09	4589.6029
	LCSS-433956	As (188.980 nm)	0.0373	4.64	51.7223
	LCSS-433956	B (249.772 nm)	0.8861	0.10	30090.4867
	LCSS-433956	Ba (230.424 nm)	1.9317	0.05	95523.6792
	LCSS-433956	Be (313.107 nm)	0.0448	0.09	48485.7209
	LCSS-433956	Ca (317.933 nm)	1.9046	0.11	76673.6432
	LCSS-433956	Cd (214.439 nm)	0.0478	0.54	3110.6466
	LCSS-433956	Co (230.786 nm)	0.4843	0.20	7739.6638
	LCSS-433956	Cr (267.716 nm)	0.1920	0.17	8299.0828
	LCSS-433956	Cu (327.395 nm)	0.2371	0.13	9913.9226
	LCSS-433956	Fe (234.350 nm)	0.9427	0.15	20781.8058
	LCSS-433956	K (766.491 nm)	17.5744	0.42	17373.2923
	LCSS-433956	Mg (279.078 nm)	1.8193	0.08	5493.6861
	LCSS-433956	Mn (257.610 nm)	0.4656	0.09	154761.6714
	LCSS-433956	Mo (202.032 nm)	0.4805	0.83	3829.6707
	LCSS-433956	Na (588.995 nm)	18.2800	0.18	197344.8761
	LCSS-433956	Ni (230.299 nm)	0.4950	0.10	6150.1200
	LCSS-433956	Pb (220.353 nm)	0.4754	0.14	2632.5816
	LCSS-433956	Sb (217.582 nm)	0.4770	0.72	1131.7487
	LCSS-433956	Se (196.026 nm)	0.9067	0.48	683.4909
	LCSS-433956	Sn (189.925 nm)	4.8807	0.14	14548.8537
	LCSS-433956	Sr (216.596 nm)	1.9827	0.13	39377.7365
	LCSS-433956	Ti (336.122 nm)	0.4893	0.09	62148.6232
	LCSS-433956	Tl (190.794 nm)	1.8722	0.10	2003.6930
	LCSS-433956	V (292.401 nm)	0.4675	0.11	18519.9215
	LCSS-433956	Y (360.074 nm)	0.98	0.49	466084.19
	LCSS-433956	Y_R (360.074 nm)	0.98	0.49	466325.56
	LCSS-433956	Zn (213.857 nm)	0.4654	0.04	25693.1281
2/23/2024 14:06:33	MDL2-433956	Ag (328.068 nm)	0.0010	11.84	-194.8635
	MDL2-433956	Al (237.312 nm)	0.0162	6.86	106.3370
	MDL2-433956	As (188.980 nm)	0.0064	13.37	-3.4848
	MDL2-433956	B (249.772 nm)	0.0473	0.76	1639.5543
	MDL2-433956	Ba (230.424 nm)	0.0022	2.78	101.6960
	MDL2-433956	Be (313.107 nm)	0.0005	2.87	310.6308
	MDL2-433956	Ca (317.933 nm)	0.2603	0.08	12735.8144
	MDL2-433956	Cd (214.439 nm)	0.0006	10.31	30.7902
	MDL2-433956	Co (230.786 nm)	0.0020	9.92	87.9350
	MDL2-433956	Cr (267.716 nm)	0.0024	6.16	91.5310
	MDL2-433956	Cu (327.395 nm)	0.0020	7.94	115.9366
	MDL2-433956	Fe (234.350 nm)	0.0238	1.15	711.2167
	MDL2-433956	K (766.491 nm)	0.1556	31.83	-100.5805
	MDL2-433956	Mg (279.078 nm)	0.0165	8.50	23.4662
	MDL2-433956	Mn (257.610 nm)	0.0021	1.30	688.2580
	MDL2-433956	Mo (202.032 nm)	0.0050	8.48	32.2377

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	MDL2-433956	Na (588.995 nm)	0.0948	4.43	-9896.4647
	MDL2-433956	Ni (230.299 nm)	0.0037	15.77	117.4548
	MDL2-433956	Pb (220.353 nm)	0.0039	5.42	37.3267
	MDL2-433956	Sb (217.582 nm)	0.0145	10.73	37.1869
	MDL2-433956	Se (196.026 nm)	0.0028 u	90.21	4.0882
	MDL2-433956	Sn (189.925 nm)	0.0643	1.13	198.8540
	MDL2-433956	Sr (216.596 nm)	0.0020	8.05	-1.8446
	MDL2-433956	Ti (336.122 nm)	0.0122	5.92	1355.0760
	MDL2-433956	Tl (190.794 nm)	0.0090	29.15	8.8639
	MDL2-433956	V (292.401 nm)	0.0011	22.55	-7.0440
	MDL2-433956	Y (360.074 nm)	1.00	0.53	475921.15
	MDL2-433956	Y_R (360.074 nm)	1.00	0.53	476157.12
	MDL2-433956	Zn (213.857 nm)	0.0014 70	4.04	40.5192
2/23/2024 14:09:47	PBW-434254	Ag (328.068 nm)	0.0002	77.40	-240.3280
	PBW-434254	Al (237.312 nm)	-0.0017 u	62.21	61.2332
	PBW-434254	As (188.980 nm)	0.0019	53.50	-11.6075
	PBW-434254	B (249.772 nm)	0.0013	17.63	79.8198
	PBW-434254	Ba (230.424 nm)	0.0000	> 100.00	-3.7088
	PBW-434254	Be (313.107 nm)	0.0000	21.39	-182.4877
	PBW-434254	Ca (317.933 nm)	0.0035	4.82	2747.1907
	PBW-434254	Cd (214.439 nm)	0.0000 u	> 100.00	-6.9047
	PBW-434254	Co (230.786 nm)	-0.0002 u	76.82	52.9075
	PBW-434254	Cr (267.716 nm)	-0.0002 u	80.67	-21.7604
	PBW-434254	Cu (327.395 nm)	-0.0001 u	> 100.00	27.7909
	PBW-434254	Fe (234.350 nm)	-0.0001 u	98.27	188.7589
	PBW-434254	K (766.491 nm)	0.0180 u	> 100.00	-238.6624
	PBW-434254	Mg (279.078 nm)	0.0003 u	> 100.00	-25.5027
	PBW-434254	Mn (257.610 nm)	0.0000	77.76	-7.8757
	PBW-434254	Mo (202.032 nm)	0.0008	52.79	-1.0946
	PBW-434254	Na (588.995 nm)	0.0026	23.71	-10947.0026
	PBW-434254	Ni (230.299 nm)	-0.0006 u	> 100.00	64.7155
	PBW-434254	Pb (220.353 nm)	-0.0004 u	77.63	13.8151
	PBW-434254	Sb (217.582 nm)	0.0110	2.35	29.0445
	PBW-434254	Se (196.026 nm)	-0.0024 u	> 100.00	0.1912
	PBW-434254	Sn (189.925 nm)	0.0004	> 100.00	8.1810
	PBW-434254	Sr (216.596 nm)	-0.0002 u	14.08	-45.8992
	PBW-434254	Ti (336.122 nm)	0.0005	75.45	-131.9300
	PBW-434254	Tl (190.794 nm)	-0.0018 u	> 100.00	-2.6578
	PBW-434254	V (292.401 nm)	-0.0001 u	> 100.00	-54.3113
	PBW-434254	Y (360.074 nm)	1.01	0.25	482920.04
	PBW-434254	Y_R (360.074 nm)	1.01	0.25	483147.23
	PBW-434254	Zn (213.857 nm)	0.0006	9.87	-8.3900
2/23/2024 14:13:01	LCSW-434254	Ag (328.068 nm)	0.0509	0.24	2746.9864
	LCSW-434254	Al (237.312 nm)	1.9201	0.14	4912.2610
	LCSW-434254	As (188.980 nm)	0.0384	7.40	53.6823
	LCSW-434254	B (249.772 nm)	0.9696	0.12	32923.5540
	LCSW-434254	Ba (230.424 nm)	2.0096	0.24	99373.2061
	LCSW-434254	Be (313.107 nm)	0.0477	0.06	51549.6690
	LCSW-434254	Ca (317.933 nm)	1.9895	0.10	79975.4335
	LCSW-434254	Cd (214.439 nm)	0.0508	0.19	3306.4784
	LCSW-434254	Co (230.786 nm)	0.5081	0.18	8117.2767
	LCSW-434254	Cr (267.716 nm)	0.1990	0.16	8600.7048
	LCSW-434254	Cu (327.395 nm)	0.2475	0.07	10344.8990
	LCSW-434254	Fe (234.350 nm)	0.9784	0.15	21561.0227
	LCSW-434254	K (766.491 nm)	18.5645	0.08	18366.4268
	LCSW-434254	Mg (279.078 nm)	1.9400	0.24	5859.9252
	LCSW-434254	Mn (257.610 nm)	0.4860	0.09	161532.7830

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	LCSW-434254	Mo (202.032 nm)	0.4759	1.09	3792.9838
	LCSW-434254	Na (588.995 nm)	19.3230	0.09	209230.3676
	LCSW-434254	Ni (230.299 nm)	0.5214	0.09	6474.4277
	LCSW-434254	Pb (220.353 nm)	0.5050	0.19	2795.6253
	LCSW-434254	Sb (217.582 nm)	0.4897	0.48	1161.7767
	LCSW-434254	Se (196.026 nm)	0.9819	0.36	740.0212
	LCSW-434254	Sn (189.925 nm)	4.9096	0.09	14635.0256
	LCSW-434254	Sr (216.596 nm)	1.9783	0.36	39290.0870
	LCSW-434254	Ti (336.122 nm)	0.4841	0.09	61482.5691
	LCSW-434254	Tl (190.794 nm)	1.9860	0.19	2125.5170
	LCSW-434254	V (292.401 nm)	0.4847	0.02	19200.7045
	LCSW-434254	Y (360.074 nm)	0.99	0.42	470359.22
	LCSW-434254	Y_R (360.074 nm)	0.99	0.42	470565.45
	LCSW-434254	Zn (213.857 nm)	0.5067	0.09	27974.1706
2/23/2024 14:16:15	R2401280-018 20X	Ag (328.068 nm)	-0.0001 u	> 100.00	-257.3375
	R2401280-018 20X	Al (237.312 nm)	-0.0027 u	64.30	58.5560
	R2401280-018 20X	As (188.980 nm)	0.0056	24.93	-4.9735
	R2401280-018 20X	B (249.772 nm)	0.0134	6.01	491.6391
	R2401280-018 20X	Ba (230.424 nm)	0.0367	4.24	1808.5431
	R2401280-018 20X	Be (313.107 nm)	0.0000	49.48	-183.8650
	R2401280-018 20X	Ca (317.933 nm)	10.7399	4.15	420239.1638
	R2401280-018 20X	Cd (214.439 nm)	0.0000 u	> 100.00	-7.7459
	R2401280-018 20X	Co (230.786 nm)	0.0003	88.46	61.1689
	R2401280-018 20X	Cr (267.716 nm)	-0.0003 u	92.92	-26.1704
	R2401280-018 20X	Cu (327.395 nm)	-0.0001 u	> 100.00	28.2772
	R2401280-018 20X	Fe (234.350 nm)	2.8712	3.88	62904.1856
	R2401280-018 20X	K (766.491 nm)	0.0676	54.82	-188.8902
	R2401280-018 20X	Mg (279.078 nm)	1.7972	4.25	5426.5508
	R2401280-018 20X	Mn (257.610 nm)	0.2469	4.11	82057.1609
	R2401280-018 20X	Mo (202.032 nm)	0.0039	21.81	23.9843
	R2401280-018 20X	Na (588.995 nm)	1.8949	4.42	10617.7320
	R2401280-018 20X	Ni (230.299 nm)	0.0005 u	> 100.00	77.6896
	R2401280-018 20X	Pb (220.353 nm)	-0.0004 u	> 100.00	13.3199
	R2401280-018 20X	Sb (217.582 nm)	0.0066	43.28	18.5372
	R2401280-018 20X	Se (196.026 nm)	0.0065	62.28	6.8980
	R2401280-018 20X	Sn (189.925 nm)	0.0029	37.55	15.8394
	R2401280-018 20X	Sr (216.596 nm)	0.0150	3.88	256.9727
	R2401280-018 20X	Ti (336.122 nm)	0.0022	29.50	85.3860
	R2401280-018 20X	Tl (190.794 nm)	0.0009 u	> 100.00	0.1690
	R2401280-018 20X	V (292.401 nm)	0.0001	34.68	-46.4329
	R2401280-018 20X	Y (360.074 nm)	1.00	0.16	477429.00
	R2401280-018 20X	Y_R (360.074 nm)	1.00	0.16	477628.78
	R2401280-018 20X	Zn (213.857 nm)	0.0006	12.91	-5.4579
2/23/2024 14:19:29	R2401280-018S 20X	Ag (328.068 nm)	0.0027	8.41	-94.1194
	R2401280-018S 20X	Al (237.312 nm)	0.0973	1.63	311.0544
	R2401280-018S 20X	As (188.980 nm)	0.0058	26.48	-4.5825
	R2401280-018S 20X	B (249.772 nm)	0.0618	0.92	2132.0217
	R2401280-018S 20X	Ba (230.424 nm)	0.1366	0.83	6751.9444
	R2401280-018S 20X	Be (313.107 nm)	0.0024	1.49	2430.5083
	R2401280-018S 20X	Ca (317.933 nm)	10.5508	0.76	412886.3480
	R2401280-018S 20X	Cd (214.439 nm)	0.0026	0.58	159.8149
	R2401280-018S 20X	Co (230.786 nm)	0.0256	1.01	462.0527
	R2401280-018S 20X	Cr (267.716 nm)	0.0100	1.56	420.6323
	R2401280-018S 20X	Cu (327.395 nm)	0.0120	2.43	535.7528
	R2401280-018S 20X	Fe (234.350 nm)	2.8415	0.59	62256.7952
	R2401280-018S 20X	K (766.491 nm)	1.0110	4.47	757.4841
	R2401280-018S 20X	Mg (279.078 nm)	1.8486	0.80	5582.4600

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401280-018S 20X	Mn (257.610 nm)	0.2649	0.80	88046.5187
	R2401280-018S 20X	Mo (202.032 nm)	0.0240	2.94	184.1421
	R2401280-018S 20X	Na (588.995 nm)	2.8137	1.00	21088.3141
	R2401280-018S 20X	Ni (230.299 nm)	0.0263	1.86	394.2739
	R2401280-018S 20X	Pb (220.353 nm)	0.0254	2.88	155.8238
	R2401280-018S 20X	Sb (217.582 nm)	0.0276	3.63	68.2722
	R2401280-018S 20X	Se (196.026 nm)	0.0516	8.86	40.7915
	R2401280-018S 20X	Sn (189.925 nm)	0.2528	0.45	760.3130
	R2401280-018S 20X	Sr (216.596 nm)	0.1148	0.85	2239.7886
	R2401280-018S 20X	Ti (336.122 nm)	0.0249	0.41	2981.9297
	R2401280-018S 20X	Tl (190.794 nm)	0.1010	1.88	107.3855
	R2401280-018S 20X	V (292.401 nm)	0.0242	0.96	910.1576
	R2401280-018S 20X	Y (360.074 nm)	1.00	0.28	475380.60
	R2401280-018S 20X	Y_R (360.074 nm)	1.00	0.28	475585.08
	R2401280-018S 20X	Zn (213.857 nm)	0.0261	1.16	1403.3530
2/23/2024 14:22:43	R2401280-018SD 20X	Ag (328.068 nm)	0.0026	5.19	-95.3130
	R2401280-018SD 20X	Al (237.312 nm)	0.0927	1.68	299.3702
	R2401280-018SD 20X	As (188.980 nm)	0.0061	15.51	-4.1098
	R2401280-018SD 20X	B (249.772 nm)	0.0599	0.18	2069.2959
	R2401280-018SD 20X	Ba (230.424 nm)	0.1305	0.43	6446.3045
	R2401280-018SD 20X	Be (313.107 nm)	0.0023	0.46	2304.7710
	R2401280-018SD 20X	Ca (317.933 nm)	10.0778	0.40	394496.4054
	R2401280-018SD 20X	Cd (214.439 nm)	0.0025	1.04	153.6400
	R2401280-018SD 20X	Co (230.786 nm)	0.0243	2.49	442.0854
	R2401280-018SD 20X	Cr (267.716 nm)	0.0094	1.47	394.1450
	R2401280-018SD 20X	Cu (327.395 nm)	0.0114	1.98	509.9188
	R2401280-018SD 20X	Fe (234.350 nm)	2.7172	0.27	59540.7204
	R2401280-018SD 20X	K (766.491 nm)	0.9785	1.65	724.9151
	R2401280-018SD 20X	Mg (279.078 nm)	1.7651	0.49	5329.2752
	R2401280-018SD 20X	Mn (257.610 nm)	0.2532	0.37	84167.4834
	R2401280-018SD 20X	Mo (202.032 nm)	0.0227	0.63	174.0131
	R2401280-018SD 20X	Na (588.995 nm)	2.7079	0.61	19883.0948
	R2401280-018SD 20X	Ni (230.299 nm)	0.0255	2.60	384.3028
	R2401280-018SD 20X	Pb (220.353 nm)	0.0242	4.55	149.0455
	R2401280-018SD 20X	Sb (217.582 nm)	0.0256	1.87	63.6040
	R2401280-018SD 20X	Se (196.026 nm)	0.0491	3.16	38.8875
	R2401280-018SD 20X	Sn (189.925 nm)	0.2436	0.17	732.7791
	R2401280-018SD 20X	Sr (216.596 nm)	0.1098	0.47	2141.6951
	R2401280-018SD 20X	Ti (336.122 nm)	0.0236	0.19	2809.2572
	R2401280-018SD 20X	Tl (190.794 nm)	0.0985	0.84	104.6886
	R2401280-018SD 20X	V (292.401 nm)	0.0231	0.82	868.0524
	R2401280-018SD 20X	Y (360.074 nm)	1.00	0.22	475684.94
	R2401280-018SD 20X	Y_R (360.074 nm)	1.00	0.22	475880.86
	R2401280-018SD 20X	Zn (213.857 nm)	0.0249	0.73	1338.1812
2/23/2024 14:25:57	R2401280-018A 20X	Ag (328.068 nm)	0.0517	0.06	2798.7316
	R2401280-018A 20X	Al (237.312 nm)	1.9596	0.10	5012.0651
	R2401280-018A 20X	As (188.980 nm)	0.0465	1.69	68.1984
	R2401280-018A 20X	B (249.772 nm)	1.0216	0.27	34685.1943
	R2401280-018A 20X	Ba (230.424 nm)	2.0523	0.10	101488.2819
	R2401280-018A 20X	Be (313.107 nm)	0.0491	0.09	53097.1426
	R2401280-018A 20X	Ca (317.933 nm)	12.5827	0.12	491899.9243
	R2401280-018A 20X	Cd (214.439 nm)	0.0517	0.12	3363.1424
	R2401280-018A 20X	Co (230.786 nm)	0.5125	0.16	8187.2455
	R2401280-018A 20X	Cr (267.716 nm)	0.2002	0.25	8652.0958
	R2401280-018A 20X	Cu (327.395 nm)	0.2476	0.15	10350.4265
	R2401280-018A 20X	Fe (234.350 nm)	3.7463	0.29	82018.6722
	R2401280-018A 20X	K (766.491 nm)	18.9223	0.24	18725.3950

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401280-018A 20X	Mg (279.078 nm)	3.7212	0.19	11264.4189
	R2401280-018A 20X	Mn (257.610 nm)	0.7310	0.10	243003.3988
	R2401280-018A 20X	Mo (202.032 nm)	0.4749	1.23	3785.5096
	R2401280-018A 20X	Na (588.995 nm)	21.4444	0.19	233406.4685
	R2401280-018A 20X	Ni (230.299 nm)	0.5285	0.05	6560.7460
	R2401280-018A 20X	Pb (220.353 nm)	0.5071	0.12	2807.0276
	R2401280-018A 20X	Sb (217.582 nm)	0.4994	0.98	1184.7628
	R2401280-018A 20X	Se (196.026 nm)	1.1012 o	0.50	829.6410
	R2401280-018A 20X	Sn (189.925 nm)	4.9574	0.10	14777.3462
	R2401280-018A 20X	Sr (216.596 nm)	1.9907	0.07	39535.3442
	R2401280-018A 20X	Ti (336.122 nm)	0.4840	0.11	61476.2393
	R2401280-018A 20X	Tl (190.794 nm)	2.0238	0.34	2165.9924
	R2401280-018A 20X	V (292.401 nm)	0.4879	0.06	19328.3773
	R2401280-018A 20X	Y (360.074 nm)	0.98	0.22	467769.57
	R2401280-018A 20X	Y_R (360.074 nm)	0.98	0.22	467967.72
	R2401280-018A 20X	Zn (213.857 nm)	0.5291	0.19	29213.1337
2/23/2024 14:29:11	R2401280-018L 100X	Ag (328.068 nm)	0.0000 u	> 100.00	-254.1746
	R2401280-018L 100X	Al (237.312 nm)	0.0008	60.01	67.5183
	R2401280-018L 100X	As (188.980 nm)	0.0016	60.50	-12.1103
	R2401280-018L 100X	B (249.772 nm)	0.0030	2.21	136.8201
	R2401280-018L 100X	Ba (230.424 nm)	0.0068	1.09	333.3437
	R2401280-018L 100X	Be (313.107 nm)	0.0000 u	> 100.00	-202.8263
	R2401280-018L 100X	Ca (317.933 nm)	1.9742	0.10	79382.1494
	R2401280-018L 100X	Cd (214.439 nm)	0.0000 u	> 100.00	-9.1741
	R2401280-018L 100X	Co (230.786 nm)	0.0000 u	> 100.00	56.1970
	R2401280-018L 100X	Cr (267.716 nm)	-0.0002 u	49.19	-21.4723
	R2401280-018L 100X	Cu (327.395 nm)	0.0000 u	> 100.00	32.9942
	R2401280-018L 100X	Fe (234.350 nm)	0.5356	0.41	11889.7908
	R2401280-018L 100X	K (766.491 nm)	0.0395	86.48	-217.0237
	R2401280-018L 100X	Mg (279.078 nm)	0.3330	0.43	984.0241
	R2401280-018L 100X	Mn (257.610 nm)	0.0459	0.20	15246.5155
	R2401280-018L 100X	Mo (202.032 nm)	0.0040	5.79	24.7864
	R2401280-018L 100X	Na (588.995 nm)	0.3532	1.03	-6950.9663
	R2401280-018L 100X	Ni (230.299 nm)	-0.0003 u	> 100.00	67.3771
	R2401280-018L 100X	Pb (220.353 nm)	-0.0002 u	> 100.00	14.9637
	R2401280-018L 100X	Sb (217.582 nm)	0.0055	17.04	16.0383
	R2401280-018L 100X	Se (196.026 nm)	0.0037 u	> 100.00	4.7981
	R2401280-018L 100X	Sn (189.925 nm)	0.0061	22.07	25.3709
	R2401280-018L 100X	Sr (216.596 nm)	0.0028	7.05	13.0811
	R2401280-018L 100X	Ti (336.122 nm)	0.0023	28.87	94.4013
	R2401280-018L 100X	Tl (190.794 nm)	0.0001 u	> 100.00	-0.6349
	R2401280-018L 100X	V (292.401 nm)	-0.0001 u	> 100.00	-53.4320
	R2401280-018L 100X	Y (360.074 nm)	1.00	0.25	476471.01
	R2401280-018L 100X	Y_R (360.074 nm)	1.00	0.25	476683.84
	R2401280-018L 100X	Zn (213.857 nm)	0.0001	67.74	-32.5524
2/23/2024 14:32:26	Continuing Calibration Verification	Ag (328.068 nm)	0.5186	0.05	30316.3178
	Continuing Calibration Verification	Al (237.312 nm)	9.9785	0.07	25253.3835
	Continuing Calibration Verification	As (188.980 nm)	0.9801	0.46	1737.8394
	Continuing Calibration Verification	B (249.772 nm)	2.4223	0.14	82192.6820
	Continuing Calibration Verification	Ba (230.424 nm)	10.2377	0.16	506275.5880
	Continuing Calibration Verification	Be (313.107 nm)	0.2411	0.16	261531.5519
	Continuing Calibration Verification	Ca (317.933 nm)	25.6434	0.19	999773.7999
	Continuing Calibration Verification	Cd (214.439 nm)	0.5041	0.24	32857.7683
	Continuing Calibration Verification	Co (230.786 nm)	2.5343	0.15	40265.9982
	Continuing Calibration Verification	Cr (267.716 nm)	0.5163	0.22	22338.2632
	Continuing Calibration Verification	Cu (327.395 nm)	1.2371	0.31	51579.3081
	Continuing Calibration Verification	Fe (234.350 nm)	5.0104	0.20	109628.9728

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	K (766.491 nm)	24.2554	0.05	24075.3446
	Continuing Calibration Verification	Mg (279.078 nm)	25.1711	0.08	76347.9720
	Continuing Calibration Verification	Mn (257.610 nm)	0.7472	0.16	248372.3534
	Continuing Calibration Verification	Mo (202.032 nm)	2.5343	0.83	20231.5325
	Continuing Calibration Verification	Na (588.995 nm)	25.1297	0.25	275404.9104
	Continuing Calibration Verification	Ni (230.299 nm)	2.1013	0.12	25873.6403
	Continuing Calibration Verification	Pb (220.353 nm)	0.5058	0.22	2800.0019
	Continuing Calibration Verification	Sb (217.582 nm)	4.9246	0.09	11657.0887
	Continuing Calibration Verification	Se (196.026 nm)	0.4895	0.68	369.8866
	Continuing Calibration Verification	Sn (189.925 nm)	5.0256	0.11	14980.6735
	Continuing Calibration Verification	Sr (216.596 nm)	2.4930	0.18	49521.5546
	Continuing Calibration Verification	Ti (336.122 nm)	2.5159	0.12	320357.0659
	Continuing Calibration Verification	Tl (190.794 nm)	1.0071	0.31	1077.5442
	Continuing Calibration Verification	V (292.401 nm)	2.5055	0.19	99463.8130
	Continuing Calibration Verification	Y (360.074 nm)	0.95	0.52	453577.79
	Continuing Calibration Verification	Y_R (360.074 nm)	0.95	0.52	453761.83
	Continuing Calibration Verification	Zn (213.857 nm)	0.9926	0.19	54841.4184
2/23/2024 14:35:39	Continuing Calibration Blank	Ag (328.068 nm)	0.0001 u	> 100.00	-246.6617
	Continuing Calibration Blank	Al (237.312 nm)	-0.0003 u	> 100.00	64.6767
	Continuing Calibration Blank	As (188.980 nm)	0.0021	80.09	-11.1587
	Continuing Calibration Blank	B (249.772 nm)	0.0016	21.48	91.6487
	Continuing Calibration Blank	Ba (230.424 nm)	0.0001	23.51	1.4143
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	15.49	-191.5215
	Continuing Calibration Blank	Ca (317.933 nm)	-0.0001 u	> 100.00	2609.6714
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	-5.6135
	Continuing Calibration Blank	Co (230.786 nm)	-0.0001 u	> 100.00	53.8906
	Continuing Calibration Blank	Cr (267.716 nm)	-0.0002 u	51.85	-23.9554
	Continuing Calibration Blank	Cu (327.395 nm)	-0.0004 u	73.82	18.9318
	Continuing Calibration Blank	Fe (234.350 nm)	0.0031	21.75	259.0890
	Continuing Calibration Blank	K (766.491 nm)	0.0581	19.20	-198.4313
	Continuing Calibration Blank	Mg (279.078 nm)	0.0006 u	> 100.00	-24.6192
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000	55.07	-2.6416
	Continuing Calibration Blank	Mo (202.032 nm)	0.0065	7.64	44.1265
	Continuing Calibration Blank	Na (588.995 nm)	0.0058	66.35	-10909.9807
	Continuing Calibration Blank	Ni (230.299 nm)	-0.0001 u	> 100.00	70.1092
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0006 u	> 100.00	12.5909
	Continuing Calibration Blank	Sb (217.582 nm)	0.0076	7.57	21.0593
	Continuing Calibration Blank	Se (196.026 nm)	-0.0010 u	> 100.00	1.2959
	Continuing Calibration Blank	Sn (189.925 nm)	0.0020	30.12	13.1844
	Continuing Calibration Blank	Sr (216.596 nm)	0.0001	26.56	-40.5222
	Continuing Calibration Blank	Ti (336.122 nm)	0.0058	28.83	545.7196
	Continuing Calibration Blank	Tl (190.794 nm)	0.0008 u	> 100.00	0.1009
	Continuing Calibration Blank	V (292.401 nm)	-0.0002 u	36.91	-59.5892
	Continuing Calibration Blank	Y (360.074 nm)	1.00	0.16	475718.09
	Continuing Calibration Blank	Y_R (360.074 nm)	1.00	0.16	475943.74
	Continuing Calibration Blank	Zn (213.857 nm)	0.0001	40.25	-34.7706
2/23/2024 14:38:53	Contract Required Detection Limit	Ag (328.068 nm)	0.0098	0.21	323.5288
	Contract Required Detection Limit	Al (237.312 nm)	0.1934	1.39	553.6189
	Contract Required Detection Limit	As (188.980 nm)	0.0225	1.44	25.2934
	Contract Required Detection Limit	B (249.772 nm)	0.1910	0.16	6515.9370
	Contract Required Detection Limit	Ba (230.424 nm)	0.2056	0.21	10163.2683
	Contract Required Detection Limit	Be (313.107 nm)	0.0048	0.21	5051.3990
	Contract Required Detection Limit	Ca (317.933 nm)	1.0108	0.18	41917.4493
	Contract Required Detection Limit	Cd (214.439 nm)	0.0103	0.31	660.9292
	Contract Required Detection Limit	Co (230.786 nm)	0.0506	0.67	858.5501
	Contract Required Detection Limit	Cr (267.716 nm)	0.0099	1.41	415.1202
	Contract Required Detection Limit	Cu (327.395 nm)	0.0243	0.37	1046.6414

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Contract Required Detection Limit	Fe (234.350 nm)	0.1080	1.10	2551.2192
	Contract Required Detection Limit	K (766.491 nm)	0.9377	2.48	683.9699
	Contract Required Detection Limit	Mg (279.078 nm)	0.9764	0.26	2936.1565
	Contract Required Detection Limit	Mn (257.610 nm)	0.0152	0.16	5052.4877
	Contract Required Detection Limit	Mo (202.032 nm)	0.0252	3.16	194.0933
	Contract Required Detection Limit	Na (588.995 nm)	0.9401	0.11	-263.1754
	Contract Required Detection Limit	Ni (230.299 nm)	0.0395	1.43	557.1779
	Contract Required Detection Limit	Pb (220.353 nm)	0.0101	11.50	71.2330
	Contract Required Detection Limit	Sb (217.582 nm)	0.0617	2.80	148.9889
	Contract Required Detection Limit	Se (196.026 nm)	0.0104	26.70	9.8522
	Contract Required Detection Limit	Sn (189.925 nm)	0.4993	0.38	1494.7548
	Contract Required Detection Limit	Sr (216.596 nm)	0.1003	0.43	1951.9486
	Contract Required Detection Limit	Ti (336.122 nm)	0.0509	1.58	6283.5534
	Contract Required Detection Limit	Tl (190.794 nm)	0.0196	4.24	20.2506
	Contract Required Detection Limit	V (292.401 nm)	0.0488	0.46	1889.7047
	Contract Required Detection Limit	Y (360.074 nm)	0.99	0.33	471795.34
	Contract Required Detection Limit	Y_R (360.074 nm)	0.99	0.33	472014.81
	Contract Required Detection Limit	Zn (213.857 nm)	0.0191	0.18	1014.4505
2/23/2024 14:42:07	Interference Check Solution A	Ag (328.068 nm)	-0.0002 u	25.30	-264.8411
	Interference Check Solution A	Al (237.312 nm)	254.4076 o	0.09	642247.7997
	Interference Check Solution A	As (188.980 nm)	-0.0048 u	28.16	-23.4707
	Interference Check Solution A	B (249.772 nm)	0.1032	0.31	3538.3207
	Interference Check Solution A	Ba (230.424 nm)	0.0009	17.31	39.5667
	Interference Check Solution A	Be (313.107 nm)	0.0000 u	96.43	-213.8636
	Interference Check Solution A	Ca (317.933 nm)	240.3994 o	0.23	9350704.5694
	Interference Check Solution A	Cd (214.439 nm)	0.0008	0.84	44.9763
	Interference Check Solution A	Co (230.786 nm)	0.0014	8.66	77.8028
	Interference Check Solution A	Cr (267.716 nm)	0.0006	17.15	11.9494
	Interference Check Solution A	Cu (327.395 nm)	0.0010	16.14	74.1118
	Interference Check Solution A	Fe (234.350 nm)	94.1956 o	0.25	2057622.1918
	Interference Check Solution A	K (766.491 nm)	-0.0267 u	> 100.00	-283.4690
	Interference Check Solution A	Mg (279.078 nm)	262.4708 o	0.21	796366.8664
	Interference Check Solution A	Mn (257.610 nm)	0.0014	0.87	460.0211
	Interference Check Solution A	Mo (202.032 nm)	-0.0003 u	57.32	-9.7574
	Interference Check Solution A	Na (588.995 nm)	-0.0875 u	1.63	-11973.2512
	Interference Check Solution A	Ni (230.299 nm)	0.0016	26.08	91.2555
	Interference Check Solution A	Pb (220.353 nm)	0.0014	29.25	23.5007
	Interference Check Solution A	Sb (217.582 nm)	-0.0131 K +/-0.02	9.93	-28.0697 K
	Interference Check Solution A	Se (196.026 nm)	0.0002 u	> 100.00	2.1380
	Interference Check Solution A	Sn (189.925 nm)	0.0045	36.11	20.6546
	Interference Check Solution A	Sr (216.596 nm)	0.0098	2.14	152.1294
	Interference Check Solution A	Ti (336.122 nm)	0.0030	18.83	181.5634
	Interference Check Solution A	Tl (190.794 nm)	0.0018	62.04	1.2001
	Interference Check Solution A	V (292.401 nm)	0.0017	5.64	18.5670
	Interference Check Solution A	Y (360.074 nm)	0.87	0.26	416537.64
	Interference Check Solution A	Y_R (360.074 nm)	0.87	0.26	416676.84
	Interference Check Solution A	Zn (213.857 nm)	0.0127 K +/-0.02	0.51	665.0368 K
2/23/2024 14:45:21	Interference Check Solution AB	Ag (328.068 nm)	0.2060	0.17	11889.5674
	Interference Check Solution AB	Al (237.312 nm)	256.7756 o	0.18	648225.2821
	Interference Check Solution AB	As (188.980 nm)	0.0935	3.57	152.2543
	Interference Check Solution AB	B (249.772 nm)	0.1175	0.09	4022.3890
	Interference Check Solution AB	Ba (230.424 nm)	0.5272	0.19	26066.7532
	Interference Check Solution AB	Be (313.107 nm)	0.4835	0.15	524643.6975
	Interference Check Solution AB	Ca (317.933 nm)	242.4700 o	0.25	9431220.6393
	Interference Check Solution AB	Cd (214.439 nm)	0.9813	0.11	63976.2932
	Interference Check Solution AB	Co (230.786 nm)	0.4897	0.03	7825.4443
	Interference Check Solution AB	Cr (267.716 nm)	0.5091	0.11	22026.5171

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Interference Check Solution AB	Cu (327.395 nm)	0.5320	0.07	22199.6391
	Interference Check Solution AB	Fe (234.350 nm)	95.0668 o	0.20	2076652.4257
	Interference Check Solution AB	K (766.491 nm)	-0.0259 u	60.22	-282.6275
	Interference Check Solution AB	Mg (279.078 nm)	264.8872 o	0.11	803698.8103
	Interference Check Solution AB	Mn (257.610 nm)	0.4928	0.12	163807.3843
	Interference Check Solution AB	Mo (202.032 nm)	-0.0015 u	23.86	-19.3601
	Interference Check Solution AB	Na (588.995 nm)	-0.0754 u	7.11	-11835.9411
	Interference Check Solution AB	Ni (230.299 nm)	0.9965	0.15	12307.9554
	Interference Check Solution AB	Pb (220.353 nm)	0.0530	0.49	307.7653
	Interference Check Solution AB	Sb (217.582 nm)	0.6074	0.89	1440.4706
	Interference Check Solution AB	Se (196.026 nm)	0.0483	5.99	38.3376
	Interference Check Solution AB	Sn (189.925 nm)	0.0037	15.00	18.1921
	Interference Check Solution AB	Sr (216.596 nm)	0.0098	2.98	153.2067
	Interference Check Solution AB	Ti (336.122 nm)	0.0025	15.39	127.3863
	Interference Check Solution AB	Tl (190.794 nm)	0.1018	2.67	108.1908
	Interference Check Solution AB	V (292.401 nm)	0.5072	0.26	20094.2263
	Interference Check Solution AB	Y (360.074 nm)	0.87	0.34	416900.40
	Interference Check Solution AB	Y_R (360.074 nm)	0.87	0.35	417051.95
	Interference Check Solution AB	Zn (213.857 nm)	1.0248	0.10	56620.4661
2/23/2024 14:48:35	HLCCV2	Ag (328.068 nm)	2.1994 o	0.07	129390.6190
	HLCCV2	Al (237.312 nm)	513.7088 o	0.13	1296782.6408
	HLCCV2	As (188.980 nm)	4.1418 o	0.11	7392.4260
	HLCCV2	B (249.772 nm)	10.7515 o	0.13	364688.3922
	HLCCV2	Ba (230.424 nm)	39.5157 o	0.23	1954153.0672
	HLCCV2	Be (313.107 nm)	1.0084 o	0.16	1094507.8503
	HLCCV2	Ca (317.933 nm)	238.7367 o	0.16	9286049.6309
	HLCCV2	Cd (214.439 nm)	1.9416 o	0.20	126584.9205
	HLCCV2	Co (230.786 nm)	9.6575 o	0.06	153286.3401
	HLCCV2	Cr (267.716 nm)	10.0509 o	0.20	435125.3960
	HLCCV2	Cu (327.395 nm)	5.4547 o	0.02	227306.3983
	HLCCV2	Fe (234.350 nm)	47.9268 o	0.13	1047013.6141
	HLCCV2	K (766.491 nm)	173.6962 Qo	0.21	173988.4307 Q
	HLCCV2	Mg (279.078 nm)	521.5550 o	0.21	1582484.5124
	HLCCV2	Mn (257.610 nm)	9.6937 o	0.24	3222388.1517
	HLCCV2	Mo (202.032 nm)	10.0579 o	0.44	80316.5415
	HLCCV2	Na (588.995 nm)	213.5112 o	0.31	2422221.0121
	HLCCV2	Ni (230.299 nm)	7.6593 o	0.14	94121.6895
	HLCCV2	Pb (220.353 nm)	9.7083 o	0.12	53457.1390
	HLCCV2	Sb (217.582 nm)	0.0175	32.66	44.4150
	HLCCV2	Se (196.026 nm)	2.0770 o	0.43	1563.1141
	HLCCV2	Sn (189.925 nm)	-0.0043 u	27.53	-5.7675
	HLCCV2	Sr (216.596 nm)	10.0191 o	0.31	199151.6593
	HLCCV2	Ti (336.122 nm)	10.2377 o	0.06	1304192.4812
	HLCCV2	Tl (190.794 nm)	3.7935 o	0.10	4060.7398
	HLCCV2	V (292.401 nm)	10.0718 o	0.16	399988.6103
	HLCCV2	Y (360.074 nm)	0.83	0.41	394860.95
	HLCCV2	Y_R (360.074 nm)	0.83	0.41	394978.40
	HLCCV2	Zn (213.857 nm)	4.2074 o	0.09	232584.3318
2/23/2024 14:51:50	HLCCV3	Ag (328.068 nm)	0.0018	6.27	-145.5809
	HLCCV3	Al (237.312 nm)	0.1119	3.27	347.8770
	HLCCV3	As (188.980 nm)	0.0218	18.59	24.0823
	HLCCV3	B (249.772 nm)	0.0547	2.19	1891.0590
	HLCCV3	Ba (230.424 nm)	0.0307	0.24	1514.8483
	HLCCV3	Be (313.107 nm)	0.0008	2.58	626.2035
	HLCCV3	Ca (317.933 nm)	189.2312 o	0.21	7360994.7160
	HLCCV3	Cd (214.439 nm)	0.0018	0.41	112.5019
	HLCCV3	Co (230.786 nm)	0.0083	7.50	187.7359

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	HLCCV3	Cr (267.716 nm)	0.0026	1.71	98.2930
	HLCCV3	Cu (327.395 nm)	4.1750 o	0.45	173989.4317
	HLCCV3	Fe (234.350 nm)	38.3018 o	0.20	836783.8961
	HLCCV3	K (766.491 nm)	110.7663 Qo	0.06	110859.6513 Q
	HLCCV3	Mg (279.078 nm)	410.9789 o	0.19	1246972.6341
	HLCCV3	Mn (257.610 nm)	0.0141	0.19	4683.3797
	HLCCV3	Mo (202.032 nm)	0.0254	5.10	195.0390
	HLCCV3	Na (588.995 nm)	155.2989 o	0.22	1758827.1119
	HLCCV3	Ni (230.299 nm)	-0.0143 u	3.29	-103.8960
	HLCCV3	Pb (220.353 nm)	0.0032	9.66	33.2335
	HLCCV3	Sb (217.582 nm)	0.0116	16.67	30.4658
	HLCCV3	Se (196.026 nm)	0.0011 u	> 100.00	2.8198
	HLCCV3	Sn (189.925 nm)	0.0150	4.34	51.9092
	HLCCV3	Sr (216.596 nm)	0.0144	1.56	245.3427
	HLCCV3	Ti (336.122 nm)	0.0373	10.19	4556.4990
	HLCCV3	Tl (190.794 nm)	2.8289 o	0.09	3028.0112
	HLCCV3	V (292.401 nm)	0.0084	2.86	282.6947
	HLCCV3	Y (360.074 nm)	0.87	0.32	414011.93
	HLCCV3	Y_R (360.074 nm)	0.87	0.32	414147.89
	HLCCV3	Zn (213.857 nm)	0.0108	0.72	555.0675
2/23/2024 14:55:04	HLCCV1	Ag (328.068 nm)	0.9967	0.08	58501.3515
	HLCCV1	Al (237.312 nm)	20.0462	0.05	50666.6467
	HLCCV1	As (188.980 nm)	2.0004	0.45	3562.6012
	HLCCV1	B (249.772 nm)	4.9976	0.14	169535.0580
	HLCCV1	Ba (230.424 nm)	19.9638	0.25	987257.0588
	HLCCV1	Be (313.107 nm)	0.4993	0.14	541862.2675
	HLCCV1	Ca (317.933 nm)	50.0128	0.18	1947395.3105
	HLCCV1	Cd (214.439 nm)	0.9968	0.22	64983.0039
	HLCCV1	Co (230.786 nm)	4.9887	0.18	79208.0661
	HLCCV1	Cr (267.716 nm)	0.9974	0.21	43169.0294
	HLCCV1	Cu (327.395 nm)	2.4956	0.07	104012.7809
	HLCCV1	Fe (234.350 nm)	10.0119	0.20	218872.2900
	HLCCV1	K (766.491 nm)	50.4252	0.12	50327.8407
	HLCCV1	Mg (279.078 nm)	49.9640	0.12	151575.0197
	HLCCV1	Mn (257.610 nm)	1.4980	0.19	497964.6996
	HLCCV1	Mo (202.032 nm)	4.9861	0.68	39812.6660
	HLCCV1	Na (588.995 nm)	49.9109	0.12	557814.1449
	HLCCV1	Ni (230.299 nm)	3.9962	0.09	49141.9635
	HLCCV1	Pb (220.353 nm)	0.9970	0.09	5504.1492
	HLCCV1	Sb (217.582 nm)	9.9819	0.15	23625.3357
	HLCCV1	Se (196.026 nm)	1.0016	0.64	754.7842
	HLCCV1	Sn (189.925 nm)	9.9682	0.06	29706.7817
	HLCCV1	Sr (216.596 nm)	4.9850	0.33	99067.7312
	HLCCV1	Ti (336.122 nm)	4.9974	0.12	636526.9226
	HLCCV1	Tl (190.794 nm)	1.9979	0.20	2138.2700
	HLCCV1	V (292.401 nm)	4.9930	0.15	198264.9210
	HLCCV1	Y (360.074 nm)	0.93	0.38	444768.16
	HLCCV1	Y_R (360.074 nm)	0.93	0.38	444938.54
	HLCCV1	Zn (213.857 nm)	1.9949	0.12	110256.0146
2/23/2024 14:58:19	Continuing Calibration Verification	Ag (328.068 nm)	0.5173	0.03	30242.5244
	Continuing Calibration Verification	Al (237.312 nm)	9.9733	0.08	25240.3841
	Continuing Calibration Verification	As (188.980 nm)	0.9896	0.65	1754.8925
	Continuing Calibration Verification	B (249.772 nm)	2.4251	0.05	82287.6383
	Continuing Calibration Verification	Ba (230.424 nm)	10.2624	0.25	507497.8419
	Continuing Calibration Verification	Be (313.107 nm)	0.2413	0.15	261804.8039
	Continuing Calibration Verification	Ca (317.933 nm)	25.6976	0.10	1001880.9612
	Continuing Calibration Verification	Cd (214.439 nm)	0.5040	0.12	32854.9351

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	Co (230.786 nm)	2.5340	0.15	40262.1406
	Continuing Calibration Verification	Cr (267.716 nm)	0.5169	0.22	22365.6689
	Continuing Calibration Verification	Cu (327.395 nm)	1.2364	0.20	51547.5508
	Continuing Calibration Verification	Fe (234.350 nm)	5.0223	0.20	109890.0724
	Continuing Calibration Verification	K (766.491 nm)	24.4860	0.40	24306.6444
	Continuing Calibration Verification	Mg (279.078 nm)	25.2141	0.13	76478.5242
	Continuing Calibration Verification	Mn (257.610 nm)	0.7475	0.12	248478.6789
	Continuing Calibration Verification	Mo (202.032 nm)	2.5367	0.51	20251.1130
	Continuing Calibration Verification	Na (588.995 nm)	25.0974	0.22	275035.9314
	Continuing Calibration Verification	Ni (230.299 nm)	2.1011	0.05	25871.5346
	Continuing Calibration Verification	Pb (220.353 nm)	0.5059	0.03	2800.7517
	Continuing Calibration Verification	Sb (217.582 nm)	4.9188	0.15	11643.5177
	Continuing Calibration Verification	Se (196.026 nm)	0.4825	0.49	364.6829
	Continuing Calibration Verification	Sn (189.925 nm)	5.0296	0.11	14992.3745
	Continuing Calibration Verification	Sr (216.596 nm)	2.4971	0.23	49604.9455
	Continuing Calibration Verification	Ti (336.122 nm)	2.5330	0.20	322538.8239
	Continuing Calibration Verification	Tl (190.794 nm)	1.0051	0.42	1075.3166
	Continuing Calibration Verification	V (292.401 nm)	2.5078	0.07	99557.6062
	Continuing Calibration Verification	Y (360.074 nm)	0.96	0.44	455901.72
	Continuing Calibration Verification	Y_R (360.074 nm)	0.96	0.44	456087.11
	Continuing Calibration Verification	Zn (213.857 nm)	0.9918	0.27	54795.2742
2/23/2024 15:01:32	Continuing Calibration Blank	Ag (328.068 nm)	0.0001 u	> 100.00	-244.6872
	Continuing Calibration Blank	Al (237.312 nm)	-0.0018 u	> 100.00	60.9344
	Continuing Calibration Blank	As (188.980 nm)	0.0037	48.63	-8.4151
	Continuing Calibration Blank	B (249.772 nm)	0.0031	15.05	142.2649
	Continuing Calibration Blank	Ba (230.424 nm)	0.0003	27.42	10.0401
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	> 100.00	-193.5670
	Continuing Calibration Blank	Ca (317.933 nm)	0.0004	7.27	2629.4457
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	-6.9958
	Continuing Calibration Blank	Co (230.786 nm)	-0.0001 u	> 100.00	54.3849
	Continuing Calibration Blank	Cr (267.716 nm)	-0.0001 u	> 100.00	-17.1524
	Continuing Calibration Blank	Cu (327.395 nm)	0.0001 u	> 100.00	38.1193
	Continuing Calibration Blank	Fe (234.350 nm)	0.0036	24.76	271.2973
	Continuing Calibration Blank	K (766.491 nm)	0.1969	18.05	-59.1227
	Continuing Calibration Blank	Mg (279.078 nm)	0.0012	52.73	-22.7433
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000	6.41	2.5773
	Continuing Calibration Blank	Mo (202.032 nm)	0.0071	11.88	49.6142
	Continuing Calibration Blank	Na (588.995 nm)	0.0697	9.51	-10182.2962
	Continuing Calibration Blank	Ni (230.299 nm)	0.0000 u	> 100.00	71.2253
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0005 u	32.91	12.8048
	Continuing Calibration Blank	Sb (217.582 nm)	0.0129 Z 0.064	19.57	33.5988 Z
	Continuing Calibration Blank	Se (196.026 nm)	-0.0065 u	26.40	-2.8900
	Continuing Calibration Blank	Sn (189.925 nm)	0.0018	70.75	12.4308
	Continuing Calibration Blank	Sr (216.596 nm)	-0.0001 u	93.36	-44.1957
	Continuing Calibration Blank	Ti (336.122 nm)	0.0074	29.33	750.8752
	Continuing Calibration Blank	Tl (190.794 nm)	0.0007 u	94.62	0.0062
	Continuing Calibration Blank	V (292.401 nm)	-0.0002 u	60.92	-56.8115
	Continuing Calibration Blank	Y (360.074 nm)	1.00	0.19	476575.81
	Continuing Calibration Blank	Y_R (360.074 nm)	1.00	0.19	476791.58
	Continuing Calibration Blank	Zn (213.857 nm)	0.0000 u	> 100.00	-40.4670
2/23/2024 15:04:46	PBW-434379	Ag (328.068 nm)	0.0001	87.46	-243.1203
	PBW-434379	Al (237.312 nm)	-0.0022 u	75.12	59.9402
	PBW-434379	As (188.980 nm)	0.0040	46.95	-7.7854
	PBW-434379	B (249.772 nm)	0.0029	2.12	134.0198
	PBW-434379	Ba (230.424 nm)	0.0001 u	> 100.00	-0.6050
	PBW-434379	Be (313.107 nm)	0.0000	21.34	-187.7852
	PBW-434379	Ca (317.933 nm)	0.0055	2.21	2826.5825

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	PBW-434379	Cd (214.439 nm)	0.0000 u	> 100.00	-5.9032
	PBW-434379	Co (230.786 nm)	-0.0001 u	> 100.00	53.9252
	PBW-434379	Cr (267.716 nm)	-0.0003 u	25.84	-25.7781
	PBW-434379	Cu (327.395 nm)	-0.0001 u	> 100.00	28.9249
	PBW-434379	Fe (234.350 nm)	0.0017	34.97	228.5658
	PBW-434379	K (766.491 nm)	0.1128	27.24	-143.5040
	PBW-434379	Mg (279.078 nm)	0.0017	85.14	-21.4091
	PBW-434379	Mn (257.610 nm)	0.0000	35.82	1.5017
	PBW-434379	Mo (202.032 nm)	0.0021	30.28	9.0081
	PBW-434379	Na (588.995 nm)	0.0576	14.14	-10320.2204
	PBW-434379	Ni (230.299 nm)	-0.0008 u	11.90	61.4400
	PBW-434379	Pb (220.353 nm)	-0.0002 u	> 100.00	14.8766
	PBW-434379	Sb (217.582 nm)	0.0111	30.61	29.2564
	PBW-434379	Se (196.026 nm)	-0.0028 u	96.46	-0.0658
	PBW-434379	Sn (189.925 nm)	0.0006	88.43	9.0455
	PBW-434379	Sr (216.596 nm)	-0.0001 u	> 100.00	-43.3278
	PBW-434379	Ti (336.122 nm)	0.0030	43.17	184.8116
	PBW-434379	Tl (190.794 nm)	-0.0014 u	49.92	-2.2369
	PBW-434379	V (292.401 nm)	0.0000 u	86.99	-51.6658
	PBW-434379	Y (360.074 nm)	1.01	0.11	481852.57
	PBW-434379	Y_R (360.074 nm)	1.01	0.11	482051.47
	PBW-434379	Zn (213.857 nm)	0.0002	40.82	-28.6047
2/23/2024 15:08:01	LCSW-434379	Ag (328.068 nm)	0.0513	0.36	2774.9969
	LCSW-434379	Al (237.312 nm)	1.9413	0.17	4965.6559
	LCSW-434379	As (188.980 nm)	0.0404	2.31	57.2329
	LCSW-434379	B (249.772 nm)	0.9794	0.12	33255.0894
	LCSW-434379	Ba (230.424 nm)	2.0350	0.24	100629.1119
	LCSW-434379	Be (313.107 nm)	0.0481	0.10	52059.1539
	LCSW-434379	Ca (317.933 nm)	2.0148	0.15	80957.8826
	LCSW-434379	Cd (214.439 nm)	0.0514	0.35	3347.0011
	LCSW-434379	Co (230.786 nm)	0.5136	0.15	8204.7303
	LCSW-434379	Cr (267.716 nm)	0.2015	0.19	8709.1401
	LCSW-434379	Cu (327.395 nm)	0.2504	0.17	10465.6146
	LCSW-434379	Fe (234.350 nm)	0.9918	0.11	21855.2426
	LCSW-434379	K (766.491 nm)	18.8341	0.23	18636.9415
	LCSW-434379	Mg (279.078 nm)	1.9661	0.18	5939.1097
	LCSW-434379	Mn (257.610 nm)	0.4914	0.12	163352.2486
	LCSW-434379	Mo (202.032 nm)	0.4845	0.83	3862.1010
	LCSW-434379	Na (588.995 nm)	19.5214	0.20	211491.9228
	LCSW-434379	Ni (230.299 nm)	0.5272	0.20	6544.9044
	LCSW-434379	Pb (220.353 nm)	0.5103	0.12	2824.6551
	LCSW-434379	Sb (217.582 nm)	0.5015	0.38	1189.8853
	LCSW-434379	Se (196.026 nm)	1.0043	0.31	756.8191
	LCSW-434379	Sn (189.925 nm)	5.0135	0.10	14944.5831
	LCSW-434379	Sr (216.596 nm)	2.0055	0.32	39829.9166
	LCSW-434379	Ti (336.122 nm)	0.4947	0.15	62839.3808
	LCSW-434379	Tl (190.794 nm)	2.0107	0.14	2151.9597
	LCSW-434379	V (292.401 nm)	0.4900	0.15	19413.5117
	LCSW-434379	Y (360.074 nm)	0.99	0.14	470237.76
	LCSW-434379	Y_R (360.074 nm)	0.99	0.14	470410.45
	LCSW-434379	Zn (213.857 nm)	0.5124	0.08	28289.4278
2/23/2024 15:11:15	DLCSW-434379	Ag (328.068 nm)	0.0515	0.35	2783.5094
	DLCSW-434379	Al (237.312 nm)	1.9400	0.01	4962.5177
	DLCSW-434379	As (188.980 nm)	0.0414	5.81	59.1020
	DLCSW-434379	B (249.772 nm)	0.9811	0.13	33311.5245
	DLCSW-434379	Ba (230.424 nm)	2.0358	0.10	100669.0560
	DLCSW-434379	Be (313.107 nm)	0.0482	0.10	52150.7414

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	DLCSW-434379	Ca (317.933 nm)	2.0188	0.11	81113.5194
	DLCSW-434379	Cd (214.439 nm)	0.0514	0.14	3344.5729
	DLCSW-434379	Co (230.786 nm)	0.5144	0.05	8217.8713
	DLCSW-434379	Cr (267.716 nm)	0.2013	0.10	8701.1917
	DLCSW-434379	Cu (327.395 nm)	0.2509	0.10	10485.5931
	DLCSW-434379	Fe (234.350 nm)	0.9932	0.20	21886.3737
	DLCSW-434379	K (766.491 nm)	18.8745	0.12	18677.4207
	DLCSW-434379	Mg (279.078 nm)	1.9660	0.23	5938.7944
	DLCSW-434379	Mn (257.610 nm)	0.4920	0.09	163530.6689
	DLCSW-434379	Mo (202.032 nm)	0.4886	0.94	3894.9092
	DLCSW-434379	Na (588.995 nm)	19.5532	0.09	211854.5187
	DLCSW-434379	Ni (230.299 nm)	0.5283	0.07	6558.1824
	DLCSW-434379	Pb (220.353 nm)	0.5102	0.41	2824.5249
	DLCSW-434379	Sb (217.582 nm)	0.5038	0.49	1195.2630
	DLCSW-434379	Se (196.026 nm)	1.0060	0.38	758.1283
	DLCSW-434379	Sn (189.925 nm)	5.0295	0.13	14992.1354
	DLCSW-434379	Sr (216.596 nm)	2.0104	0.24	39928.3164
	DLCSW-434379	Ti (336.122 nm)	0.4966	0.13	63074.7174
	DLCSW-434379	Tl (190.794 nm)	2.0136	0.09	2155.1209
	DLCSW-434379	V (292.401 nm)	0.4904	0.14	19427.0177
	DLCSW-434379	Y (360.074 nm)	0.99	0.34	471467.89
	DLCSW-434379	Y_R (360.074 nm)	0.99	0.34	471676.75
	DLCSW-434379	Zn (213.857 nm)	0.5130	0.06	28323.6524
2/23/2024 15:14:29	R2401363-001	Ag (328.068 nm)	0.0000 u	> 100.00	-248.6909
	R2401363-001	Al (237.312 nm)	0.0057	10.42	79.7971
	R2401363-001	As (188.980 nm)	0.0023	> 100.00	-10.7792
	R2401363-001	B (249.772 nm)	0.0884	0.39	3033.8292
	R2401363-001	Ba (230.424 nm)	0.0283	0.38	1392.1573
	R2401363-001	Be (313.107 nm)	0.0000	41.15	-179.1291
	R2401363-001	Ca (317.933 nm)	127.5564 o	0.19	4962728.1499
	R2401363-001	Cd (214.439 nm)	0.0000 u	> 100.00	-7.7456
	R2401363-001	Co (230.786 nm)	0.0002 u	> 100.00	59.6689
	R2401363-001	Cr (267.716 nm)	0.0003	23.59	-2.2947
	R2401363-001	Cu (327.395 nm)	0.0015	21.12	95.9163
	R2401363-001	Fe (234.350 nm)	0.0062	12.50	328.1013
	R2401363-001	K (766.491 nm)	3.6616	1.16	3416.5178
	R2401363-001	Mg (279.078 nm)	64.5830 o	0.10	195932.2106
	R2401363-001	Mn (257.610 nm)	0.0005	3.43	162.2819
	R2401363-001	Mo (202.032 nm)	0.0138	3.30	102.4292
	R2401363-001	Na (588.995 nm)	42.0165	0.19	467847.9101
	R2401363-001	Ni (230.299 nm)	-0.0005 u	60.90	65.9816
	R2401363-001	Pb (220.353 nm)	-0.0006 u	65.03	12.7633
	R2401363-001	Sb (217.582 nm)	0.0091	35.87	24.5063
	R2401363-001	Se (196.026 nm)	0.0068	21.19	7.0999
	R2401363-001	Sn (189.925 nm)	0.0041	22.37	19.2533
	R2401363-001	Sr (216.596 nm)	2.0825	0.26	41360.3510
	R2401363-001	Ti (336.122 nm)	0.0040	24.69	317.0413
	R2401363-001	Tl (190.794 nm)	0.0016	58.53	0.9597
	R2401363-001	V (292.401 nm)	0.0010	25.49	-11.8082
	R2401363-001	Y (360.074 nm)	0.95	0.37	453013.16
	R2401363-001	Y_R (360.074 nm)	0.95	0.37	453193.93
	R2401363-001	Zn (213.857 nm)	0.0220	0.77	1174.2354
2/23/2024 15:17:43	R2401363-006	Ag (328.068 nm)	0.0000 u	> 100.00	-249.1857
	R2401363-006	Al (237.312 nm)	0.0013	59.71	68.7290
	R2401363-006	As (188.980 nm)	0.0011	61.55	-12.9289
	R2401363-006	B (249.772 nm)	0.0029	5.52	134.5512
	R2401363-006	Ba (230.424 nm)	0.0002	34.41	3.6121

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401363-006	Be (313.107 nm)	0.0000	10.34	-185.4911
	R2401363-006	Ca (317.933 nm)	0.1884	0.15	9938.1048
	R2401363-006	Cd (214.439 nm)	0.0001	40.25	-3.9903
	R2401363-006	Co (230.786 nm)	-0.0001 u	> 100.00	53.7117
	R2401363-006	Cr (267.716 nm)	0.0005	25.86	5.8604
	R2401363-006	Cu (327.395 nm)	0.0002	77.97	43.4102
	R2401363-006	Fe (234.350 nm)	0.0048	6.29	296.9853
	R2401363-006	K (766.491 nm)	0.1038	33.25	-152.5358
	R2401363-006	Mg (279.078 nm)	0.0603	1.35	156.5631
	R2401363-006	Mn (257.610 nm)	0.0001	10.80	38.5572
	R2401363-006	Mo (202.032 nm)	0.0011	53.78	1.5129
	R2401363-006	Na (588.995 nm)	0.0678	7.06	-10203.3676
	R2401363-006	Ni (230.299 nm)	-0.0009 u	22.74	60.2778
	R2401363-006	Pb (220.353 nm)	-0.0009 u	52.79	10.8613
	R2401363-006	Sb (217.582 nm)	0.0112	22.27	29.4470
	R2401363-006	Se (196.026 nm)	-0.0001 u	> 100.00	1.9540
	R2401363-006	Sn (189.925 nm)	0.0015	29.92	11.5990
	R2401363-006	Sr (216.596 nm)	0.0032	4.16	21.6126
	R2401363-006	Ti (336.122 nm)	0.0013	53.67	-36.7290
	R2401363-006	Tl (190.794 nm)	-0.0016 u	> 100.00	-2.5007
	R2401363-006	V (292.401 nm)	0.0003	42.07	-37.2017
	R2401363-006	Y (360.074 nm)	1.01	0.23	481690.18
	R2401363-006	Y_R (360.074 nm)	1.01	0.23	481885.12
	R2401363-006	Zn (213.857 nm)	0.0020	5.84	70.1951
2/23/2024 15:20:57	R2401363-007	Ag (328.068 nm)	0.0002	51.47	-240.2384
	R2401363-007	Al (237.312 nm)	0.0022	25.79	71.1039
	R2401363-007	As (188.980 nm)	0.0024	55.94	-10.7419
	R2401363-007	B (249.772 nm)	0.0743	0.37	2556.0382
	R2401363-007	Ba (230.424 nm)	0.0322	0.50	1585.1669
	R2401363-007	Be (313.107 nm)	0.0000	24.52	-163.2777
	R2401363-007	Ca (317.933 nm)	129.7415 o	0.14	5047697.1350
	R2401363-007	Cd (214.439 nm)	0.0000 u	> 100.00	-8.1172
	R2401363-007	Co (230.786 nm)	0.0005	63.67	63.0352
	R2401363-007	Cr (267.716 nm)	0.0000 u	> 100.00	-15.3921
	R2401363-007	Cu (327.395 nm)	0.0013	14.79	88.5779
	R2401363-007	Fe (234.350 nm)	0.0028	14.59	252.3588
	R2401363-007	K (766.491 nm)	2.8037	1.47	2555.8875
	R2401363-007	Mg (279.078 nm)	68.6279 o	0.04	208205.3364
	R2401363-007	Mn (257.610 nm)	0.0061	0.54	2002.7427
	R2401363-007	Mo (202.032 nm)	0.0133	1.22	98.6671
	R2401363-007	Na (588.995 nm)	41.2828	0.21	459486.4203
	R2401363-007	Ni (230.299 nm)	0.0007	51.79	80.3330
	R2401363-007	Pb (220.353 nm)	-0.0004 u	> 100.00	13.7480
	R2401363-007	Sb (217.582 nm)	0.0081	18.55	22.1551
	R2401363-007	Se (196.026 nm)	-0.0021 u	> 100.00	0.3991
	R2401363-007	Sn (189.925 nm)	0.0008 u	> 100.00	9.5296
	R2401363-007	Sr (216.596 nm)	2.5761	0.29	51173.7172
	R2401363-007	Ti (336.122 nm)	0.0017	23.05	19.7296
	R2401363-007	Tl (190.794 nm)	0.0009 u	> 100.00	0.2094
	R2401363-007	V (292.401 nm)	0.0004	23.94	-33.6792
	R2401363-007	Y (360.074 nm)	0.95	0.33	452009.25
	R2401363-007	Y_R (360.074 nm)	0.95	0.33	452167.26
	R2401363-007	Zn (213.857 nm)	0.0109	1.03	565.7341
2/23/2024 15:24:11	R2401363-008	Ag (328.068 nm)	0.0001 u	> 100.00	-248.2957
	R2401363-008	Al (237.312 nm)	0.0064	12.03	81.6977
	R2401363-008	As (188.980 nm)	0.0014 u	> 100.00	-12.5352
	R2401363-008	B (249.772 nm)	0.1796	0.03	6126.6434

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401363-008	Ba (230.424 nm)	0.0167	0.43	821.3425
	R2401363-008	Be (313.107 nm)	0.0000	51.11	-183.0212
	R2401363-008	Ca (317.933 nm)	52.3696	0.10	2039037.6486
	R2401363-008	Cd (214.439 nm)	0.0000 u	> 100.00	-8.1054
	R2401363-008	Co (230.786 nm)	0.0000 u	> 100.00	56.5185
	R2401363-008	Cr (267.716 nm)	0.0299	0.63	1282.0363
	R2401363-008	Cu (327.395 nm)	0.0012	30.55	83.5621
	R2401363-008	Fe (234.350 nm)	0.0202	1.74	632.2708
	R2401363-008	K (766.491 nm)	1.7014	3.20	1450.0401
	R2401363-008	Mg (279.078 nm)	8.8290	0.09	26762.4565
	R2401363-008	Mn (257.610 nm)	0.0012	0.53	394.2635
	R2401363-008	Mo (202.032 nm)	0.0273	0.59	210.6123
	R2401363-008	Na (588.995 nm)	110.8974 o	0.13	1252822.9010
	R2401363-008	Ni (230.299 nm)	0.0023	26.71	100.2021
	R2401363-008	Pb (220.353 nm)	0.0003	> 100.00	17.3648
	R2401363-008	Sb (217.582 nm)	0.0093	10.31	24.9044
	R2401363-008	Se (196.026 nm)	0.0074	33.34	7.5539
	R2401363-008	Sn (189.925 nm)	0.0015	41.17	11.5560
	R2401363-008	Sr (216.596 nm)	2.3659	0.37	46995.9774
	R2401363-008	Ti (336.122 nm)	0.0009	27.11	-79.9525
	R2401363-008	Tl (190.794 nm)	0.0007 u	> 100.00	-0.0437
	R2401363-008	V (292.401 nm)	0.0049	3.79	145.4894
	R2401363-008	Y (360.074 nm)	0.95	0.38	454680.95
	R2401363-008	Y_R (360.074 nm)	0.95	0.38	454839.57
	R2401363-008	Zn (213.857 nm)	0.0037	2.08	162.4835
2/23/2024 15:27:25	R2401363-015	Ag (328.068 nm)	-0.0001 u	> 100.00	-255.2612
	R2401363-015	Al (237.312 nm)	0.0705	1.68	243.5221
	R2401363-015	As (188.980 nm)	0.0006 u	> 100.00	-13.9441
	R2401363-015	B (249.772 nm)	0.2162	0.31	7368.0367
	R2401363-015	Ba (230.424 nm)	0.0453	0.42	2233.8098
	R2401363-015	Be (313.107 nm)	0.0000	41.88	-183.5126
	R2401363-015	Ca (317.933 nm)	91.0399 o	0.23	3542760.9486
	R2401363-015	Cd (214.439 nm)	0.0000 u	> 100.00	-8.0056
	R2401363-015	Co (230.786 nm)	0.0004	21.16	61.3835
	R2401363-015	Cr (267.716 nm)	0.0002	46.62	-4.8511
	R2401363-015	Cu (327.395 nm)	0.0005	70.45	52.9419
	R2401363-015	Fe (234.350 nm)	0.0334	0.26	921.4657
	R2401363-015	K (766.491 nm)	3.1197	2.40	2872.9159
	R2401363-015	Mg (279.078 nm)	22.5474	0.12	68387.3233
	R2401363-015	Mn (257.610 nm)	0.0131	0.16	4336.2588
	R2401363-015	Mo (202.032 nm)	0.0120	5.47	88.7399
	R2401363-015	Na (588.995 nm)	118.4358 o	0.13	1338731.2554
	R2401363-015	Ni (230.299 nm)	-0.0008 u	53.92	61.2236
	R2401363-015	Pb (220.353 nm)	0.0001 u	> 100.00	16.3798
	R2401363-015	Sb (217.582 nm)	0.0072	4.08	20.0647
	R2401363-015	Se (196.026 nm)	0.0001 u	> 100.00	2.1172
	R2401363-015	Sn (189.925 nm)	0.0013	75.85	11.1196
	R2401363-015	Sr (216.596 nm)	4.4279	0.09	87991.6176
	R2401363-015	Ti (336.122 nm)	0.0019	17.79	48.2311
	R2401363-015	Tl (190.794 nm)	0.0001 u	> 100.00	-0.6306
	R2401363-015	V (292.401 nm)	0.0048	0.53	140.5629
	R2401363-015	Y (360.074 nm)	0.94	0.19	449387.86
	R2401363-015	Y_R (360.074 nm)	0.94	0.19	449535.12
	R2401363-015	Zn (213.857 nm)	0.0021	2.98	75.7172
2/23/2024 15:30:39	R2401363-018	Ag (328.068 nm)	0.0001 u	> 100.00	-248.3698
	R2401363-018	Al (237.312 nm)	0.0035	26.40	74.4186
	R2401363-018	As (188.980 nm)	0.0014 u	> 100.00	-12.3730

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401363-018	B (249.772 nm)	0.2242	0.31	7640.9555
	R2401363-018	Ba (230.424 nm)	0.0243	0.31	1194.2160
	R2401363-018	Be (313.107 nm)	0.0000	11.61	-185.0023
	R2401363-018	Ca (317.933 nm)	91.2483 o	0.20	3550865.5671
	R2401363-018	Cd (214.439 nm)	0.0001 u	91.94	-1.5601
	R2401363-018	Co (230.786 nm)	0.0005	42.38	63.9405
	R2401363-018	Cr (267.716 nm)	0.0007	29.75	18.3445
	R2401363-018	Cu (327.395 nm)	0.0016	20.81	99.9507
	R2401363-018	Fe (234.350 nm)	0.0096	2.34	401.6516
	R2401363-018	K (766.491 nm)	2.5084	0.50	2259.6529
	R2401363-018	Mg (279.078 nm)	58.2305 o	0.16	176657.5290
	R2401363-018	Mn (257.610 nm)	0.0008	1.98	256.8470
	R2401363-018	Mo (202.032 nm)	0.0072	2.13	50.0635
	R2401363-018	Na (588.995 nm)	99.0964 o	0.21	1118337.0058
	R2401363-018	Ni (230.299 nm)	-0.0014 u	34.48	54.5789
	R2401363-018	Pb (220.353 nm)	-0.0008 u	> 100.00	11.3167
	R2401363-018	Sb (217.582 nm)	0.0053	20.35	15.4149
	R2401363-018	Se (196.026 nm)	-0.0010 u	> 100.00	1.2609
	R2401363-018	Sn (189.925 nm)	0.0012	31.06	10.5805
	R2401363-018	Sr (216.596 nm)	1.6876	0.15	33509.7268
	R2401363-018	Ti (336.122 nm)	0.0009	24.67	-84.4080
	R2401363-018	Tl (190.794 nm)	0.0008	64.26	0.1387
	R2401363-018	V (292.401 nm)	0.0023	6.86	39.6124
	R2401363-018	Y (360.074 nm)	0.94	0.29	448363.87
	R2401363-018	Y_R (360.074 nm)	0.94	0.29	448507.09
	R2401363-018	Zn (213.857 nm)	0.0128	0.68	667.6017
2/23/2024 15:33:52	R2401363-019	Ag (328.068 nm)	0.0000 u	> 100.00	-252.0544
	R2401363-019	Al (237.312 nm)	0.0324	5.45	147.2258
	R2401363-019	As (188.980 nm)	0.0030	16.94	-9.6499
	R2401363-019	B (249.772 nm)	0.0340	1.10	1189.3248
	R2401363-019	Ba (230.424 nm)	0.0321	0.38	1581.0929
	R2401363-019	Be (313.107 nm)	0.0291	0.09	31379.0421
	R2401363-019	Ca (317.933 nm)	0.0435	0.20	4304.5809
	R2401363-019	Cd (214.439 nm)	0.0313	0.24	2032.8269
	R2401363-019	Co (230.786 nm)	0.0319	0.56	562.7302
	R2401363-019	Cr (267.716 nm)	0.0324	0.67	1386.7900
	R2401363-019	Cu (327.395 nm)	0.0305	0.29	1306.5270
	R2401363-019	Fe (234.350 nm)	0.0358	1.11	974.4044
	R2401363-019	K (766.491 nm)	0.1025	32.08	-153.8842
	R2401363-019	Mg (279.078 nm)	0.0342	1.75	77.3351
	R2401363-019	Mn (257.610 nm)	0.0315	0.21	10463.0583
	R2401363-019	Mo (202.032 nm)	0.0005	32.54	-3.4023
	R2401363-019	Na (588.995 nm)	0.1610	5.20	-9142.0153
	R2401363-019	Ni (230.299 nm)	0.0321	0.39	465.6481
	R2401363-019	Pb (220.353 nm)	0.0311	0.24	187.1325
	R2401363-019	Sb (217.582 nm)	0.0079	13.70	21.6461
	R2401363-019	Se (196.026 nm)	0.0234	3.92	19.5956
	R2401363-019	Sn (189.925 nm)	-0.0001 u	> 100.00	6.9213
	R2401363-019	Sr (216.596 nm)	0.0314	0.64	581.4167
	R2401363-019	Ti (336.122 nm)	0.0001 u	> 100.00	-185.6772
	R2401363-019	Tl (190.794 nm)	0.0291	1.01	30.4397
	R2401363-019	V (292.401 nm)	-0.0001 u	75.24	-54.4949
	R2401363-019	Y (360.074 nm)	1.01	0.33	481879.62
	R2401363-019	Y_R (360.074 nm)	1.01	0.33	482054.91
	R2401363-019	Zn (213.857 nm)	0.0313	0.40	1689.8226
2/23/2024 15:37:06	Continuing Calibration Verification	Ag (328.068 nm)	0.5191	0.09	30345.1567
	Continuing Calibration Verification	Al (237.312 nm)	9.9823	0.11	25262.9389

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	As (188.980 nm)	0.9778	0.33	1733.7865
	Continuing Calibration Verification	B (249.772 nm)	2.4207	0.14	82136.3931
	Continuing Calibration Verification	Ba (230.424 nm)	10.2876	0.30	508746.4207
	Continuing Calibration Verification	Be (313.107 nm)	0.2412	0.10	261685.6150
	Continuing Calibration Verification	Ca (317.933 nm)	25.7068	0.14	1002238.9620
	Continuing Calibration Verification	Cd (214.439 nm)	0.5041	0.10	32861.2986
	Continuing Calibration Verification	Co (230.786 nm)	2.5476	0.29	40477.7807
	Continuing Calibration Verification	Cr (267.716 nm)	0.5169	0.07	22363.3994
	Continuing Calibration Verification	Cu (327.395 nm)	1.2462	0.27	51955.9478
	Continuing Calibration Verification	Fe (234.350 nm)	5.0100	0.16	109620.3177
	Continuing Calibration Verification	K (766.491 nm)	24.3231	0.15	24143.3182
	Continuing Calibration Verification	Mg (279.078 nm)	25.2211	0.05	76499.8809
	Continuing Calibration Verification	Mn (257.610 nm)	0.7474	0.13	248451.4328
	Continuing Calibration Verification	Mo (202.032 nm)	2.5316	0.71	20210.2072
	Continuing Calibration Verification	Na (588.995 nm)	25.2160	0.21	276387.6753
	Continuing Calibration Verification	Ni (230.299 nm)	2.1015	0.05	25875.8872
	Continuing Calibration Verification	Pb (220.353 nm)	0.5056	0.24	2799.0448
	Continuing Calibration Verification	Sb (217.582 nm)	4.9308	0.18	11671.9317
	Continuing Calibration Verification	Se (196.026 nm)	0.4855	1.75	366.9033
	Continuing Calibration Verification	Sn (189.925 nm)	5.0274	0.12	14986.0073
	Continuing Calibration Verification	Sr (216.596 nm)	2.4987	0.20	49636.3174
	Continuing Calibration Verification	Ti (336.122 nm)	2.5196	0.10	320830.6328
	Continuing Calibration Verification	Tl (190.794 nm)	1.0032	0.40	1073.3481
	Continuing Calibration Verification	V (292.401 nm)	2.5108	0.08	99677.2357
	Continuing Calibration Verification	Y (360.074 nm)	0.95	0.42	454959.91
	Continuing Calibration Verification	Y_R (360.074 nm)	0.95	0.42	455120.81
	Continuing Calibration Verification	Zn (213.857 nm)	0.9952	0.28	54985.7601
2/23/2024 15:40:20	Continuing Calibration Blank	Ag (328.068 nm)	-0.0001 u	> 100.00	-255.9409
	Continuing Calibration Blank	Al (237.312 nm)	-0.0002 u	> 100.00	64.8432
	Continuing Calibration Blank	As (188.980 nm)	0.0038	9.19	-8.1520
	Continuing Calibration Blank	B (249.772 nm)	0.0016	20.07	92.4624
	Continuing Calibration Blank	Ba (230.424 nm)	0.0003	6.36	11.6705
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	24.41	-180.2768
	Continuing Calibration Blank	Ca (317.933 nm)	0.0010	7.64	2650.2541
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	-7.3132
	Continuing Calibration Blank	Co (230.786 nm)	-0.0002 u	> 100.00	53.3622
	Continuing Calibration Blank	Cr (267.716 nm)	-0.0001 u	> 100.00	-19.3727
	Continuing Calibration Blank	Cu (327.395 nm)	0.0000 u	> 100.00	32.2197
	Continuing Calibration Blank	Fe (234.350 nm)	0.0030	17.51	257.6921
	Continuing Calibration Blank	K (766.491 nm)	0.0825	25.35	-173.9696
	Continuing Calibration Blank	Mg (279.078 nm)	-0.0005 u	> 100.00	-28.1114
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000 u	> 100.00	-7.9815
	Continuing Calibration Blank	Mo (202.032 nm)	0.0068	10.94	46.6731
	Continuing Calibration Blank	Na (588.995 nm)	0.0623	9.31	-10266.0522
	Continuing Calibration Blank	Ni (230.299 nm)	-0.0001 u	> 100.00	70.6749
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0008 u	41.30	11.5955
	Continuing Calibration Blank	Sb (217.582 nm)	0.0100 Z S.Dall	5.49	26.6441 Z
	Continuing Calibration Blank	Se (196.026 nm)	-0.0016 u	86.73	0.8398
	Continuing Calibration Blank	Sn (189.925 nm)	0.0021	23.04	13.2722
	Continuing Calibration Blank	Sr (216.596 nm)	-0.0001 u	> 100.00	-43.8572
	Continuing Calibration Blank	Ti (336.122 nm)	0.0060	25.90	569.9056
	Continuing Calibration Blank	Tl (190.794 nm)	-0.0014 u	26.81	-2.2141
	Continuing Calibration Blank	V (292.401 nm)	-0.0002 u	> 100.00	-58.3716
	Continuing Calibration Blank	Y (360.074 nm)	1.00	0.46	476958.01
	Continuing Calibration Blank	Y_R (360.074 nm)	1.00	0.46	477128.32
	Continuing Calibration Blank	Zn (213.857 nm)	0.0001 u	> 100.00	-36.6058
2/23/2024 15:43:34	R2401363-023	Ag (328.068 nm)	-0.0001 u	> 100.00	-255.4002

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401363-023	Al (237.312 nm)	0.0029	29.46	72.7231
	R2401363-023	As (188.980 nm)	0.0019 u	> 100.00	-11.6171
	R2401363-023	B (249.772 nm)	0.0827	0.63	2839.9949
	R2401363-023	Ba (230.424 nm)	0.0235	1.13	1155.1882
	R2401363-023	Be (313.107 nm)	0.0000	16.65	-160.7868
	R2401363-023	Ca (317.933 nm)	143.2287 o	0.31	5572157.0262
	R2401363-023	Cd (214.439 nm)	0.0000 u	> 100.00	-6.9394
	R2401363-023	Co (230.786 nm)	0.0001 u	> 100.00	57.7987
	R2401363-023	Cr (267.716 nm)	-0.0002 u	> 100.00	-20.6821
	R2401363-023	Cu (327.395 nm)	0.0007	31.74	63.8662
	R2401363-023	Fe (234.350 nm)	0.4629	0.30	10301.6012
	R2401363-023	K (766.491 nm)	2.7208	1.30	2472.7530
	R2401363-023	Mg (279.078 nm)	78.5118 o	0.23	238195.4966
	R2401363-023	Mn (257.610 nm)	0.0053	0.14	1748.5693
	R2401363-023	Mo (202.032 nm)	0.0063	10.84	42.8019
	R2401363-023	Na (588.995 nm)	19.5398	0.05	211701.6130
	R2401363-023	Ni (230.299 nm)	-0.0005 u	70.18	65.7956
	R2401363-023	Pb (220.353 nm)	0.0002 u	> 100.00	16.8115
	R2401363-023	Sb (217.582 nm)	0.0060	24.10	17.1456
	R2401363-023	Se (196.026 nm)	-0.0048 u	76.07	-1.6130
	R2401363-023	Sn (189.925 nm)	0.0013	75.58	10.9683
	R2401363-023	Sr (216.596 nm)	11.4820 o	0.33	228236.4532
	R2401363-023	Ti (336.122 nm)	0.0033	24.90	222.6931
	R2401363-023	Tl (190.794 nm)	0.0026	22.48	2.0105
	R2401363-023	V (292.401 nm)	0.0001 u	> 100.00	-47.5217
	R2401363-023	Y (360.074 nm)	0.95	0.26	451300.37
	R2401363-023	Y_R (360.074 nm)	0.95	0.26	451442.68
	R2401363-023	Zn (213.857 nm)	0.0148	0.74	779.3422
2/23/2024 15:46:48	R2401372-001	Ag (328.068 nm)	-0.0009 u	9.51	-302.7004
	R2401372-001	Al (237.312 nm)	0.0326	5.86	147.8210
	R2401372-001	As (188.980 nm)	-0.0035 u	65.39	-21.1353
	R2401372-001	B (249.772 nm)	0.0337	0.68	1178.2876
	R2401372-001	Ba (230.424 nm)	0.6169	0.12	30501.4409
	R2401372-001	Be (313.107 nm)	0.0001	38.61	-141.2142
	R2401372-001	Ca (317.933 nm)	#####	N/A	#####
	R2401372-001	Cd (214.439 nm)	0.0000 u	> 100.00	-4.5117
	R2401372-001	Co (230.786 nm)	0.0024	9.43	93.7798
	R2401372-001	Cr (267.716 nm)	0.0093	1.64	389.0119
	R2401372-001	Cu (327.395 nm)	0.0013	15.67	89.5169
	R2401372-001	Fe (234.350 nm)	0.1249	0.20	2920.0076
	R2401372-001	K (766.491 nm)	85.6290 o	0.70	85642.9196
	R2401372-001	Mg (279.078 nm)	19.1211	0.07	57991.2174
	R2401372-001	Mn (257.610 nm)	0.0161	0.14	5334.4854
	R2401372-001	Mo (202.032 nm)	0.0035	17.81	20.4756
	R2401372-001	Na (588.995 nm)	1350.4280 o	1.70	15378648.2391
	R2401372-001	Ni (230.299 nm)	0.0106	10.73	201.5262
	R2401372-001	Pb (220.353 nm)	0.0010	63.03	21.1944
	R2401372-001	Sb (217.582 nm)	0.0043	37.78	13.1629
	R2401372-001	Se (196.026 nm)	0.0012 u	> 100.00	2.9439
	R2401372-001	Sn (189.925 nm)	0.0022	45.79	13.6537
	R2401372-001	Sr (216.596 nm)	9.1316 o	0.22	181506.5447
	R2401372-001	Ti (336.122 nm)	0.0230	1.72	2739.6264
	R2401372-001	Tl (190.794 nm)	-0.0004 u	> 100.00	-1.2171
	R2401372-001	V (292.401 nm)	-0.0009 u	22.18	-87.4423
	R2401372-001	Y (360.074 nm)	0.76	0.52	360443.33
	R2401372-001	Y_R (360.074 nm)	0.76	0.52	360518.39
	R2401372-001	Zn (213.857 nm)	0.0033	2.03	143.6183

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
2/23/2024 15:50:02	R2401372-002	Ag (328.068 nm)	0.0000 u	> 100.00	-251.3735
	R2401372-002	Al (237.312 nm)	0.0106	10.61	92.2449
	R2401372-002	As (188.980 nm)	0.0010 u	> 100.00	-13.1089
	R2401372-002	B (249.772 nm)	0.0459	0.04	1592.5377
	R2401372-002	Ba (230.424 nm)	0.0389	0.18	1916.1332
	R2401372-002	Be (313.107 nm)	0.0000	66.56	-180.2592
	R2401372-002	Ca (317.933 nm)	239.4453 o	0.15	9313603.5527
	R2401372-002	Cd (214.439 nm)	0.0000	76.98	-4.4266
	R2401372-002	Co (230.786 nm)	0.0005	69.83	63.2954
	R2401372-002	Cr (267.716 nm)	0.0030	3.35	115.5039
	R2401372-002	Cu (327.395 nm)	0.0004	14.41	50.2871
	R2401372-002	Fe (234.350 nm)	0.0228	1.21	689.3654
	R2401372-002	K (766.491 nm)	6.9729	0.77	6738.2639
	R2401372-002	Mg (279.078 nm)	33.6989	0.18	102223.3289
	R2401372-002	Mn (257.610 nm)	0.1027	0.16	34129.7240
	R2401372-002	Mo (202.032 nm)	0.0020	6.67	8.2100
	R2401372-002	Na (588.995 nm)	147.8671 o	0.10	1674133.0469
	R2401372-002	Ni (230.299 nm)	0.0021	20.78	97.1723
	R2401372-002	Pb (220.353 nm)	-0.0002 u	> 100.00	14.6672
	R2401372-002	Sb (217.582 nm)	0.0034	46.15	10.9824
	R2401372-002	Se (196.026 nm)	-0.0038 u	79.37	-0.8780
	R2401372-002	Sn (189.925 nm)	0.0009	26.22	9.8432
	R2401372-002	Sr (216.596 nm)	2.1816	0.36	43331.1703
	R2401372-002	Ti (336.122 nm)	0.0028	6.94	160.4184
	R2401372-002	Tl (190.794 nm)	-0.0003 u	> 100.00	-1.0481
	R2401372-002	V (292.401 nm)	-0.0001 u	> 100.00	-52.7237
	R2401372-002	Y (360.074 nm)	0.92	0.27	437029.47
	R2401372-002	Y_R (360.074 nm)	0.92	0.27	437169.30
	R2401372-002	Zn (213.857 nm)	0.0017	0.16	56.8222
2/23/2024 15:53:17	R2401372-005	Ag (328.068 nm)	-0.0003 u	32.81	-268.1656
	R2401372-005	Al (237.312 nm)	0.1364	1.18	409.7945
	R2401372-005	As (188.980 nm)	0.0013	> 100.00	-12.6597
	R2401372-005	B (249.772 nm)	0.0875	0.32	3003.3237
	R2401372-005	Ba (230.424 nm)	0.4927	0.17	24358.3827
	R2401372-005	Be (313.107 nm)	0.0000	23.36	-163.4903
	R2401372-005	Ca (317.933 nm)	607.1286 o	0.16	23611215.8786
	R2401372-005	Cd (214.439 nm)	0.0002	17.83	8.8380
	R2401372-005	Co (230.786 nm)	0.0013	28.09	77.1452
	R2401372-005	Cr (267.716 nm)	0.0071	2.58	292.2971
	R2401372-005	Cu (327.395 nm)	0.0025	3.64	139.8689
	R2401372-005	Fe (234.350 nm)	0.2217	0.20	5033.2412
	R2401372-005	K (766.491 nm)	29.2668	0.35	29102.5917
	R2401372-005	Mg (279.078 nm)	2.7074	0.04	8188.2183
	R2401372-005	Mn (257.610 nm)	0.0057	0.50	1885.8808
	R2401372-005	Mo (202.032 nm)	0.0056	5.64	37.5155
	R2401372-005	Na (588.995 nm)	438.7169 o	0.49	4988688.9098
	R2401372-005	Ni (230.299 nm)	0.0154	4.66	260.4134
	R2401372-005	Pb (220.353 nm)	0.0021	49.67	27.4389
	R2401372-005	Sb (217.582 nm)	0.0045	51.59	13.5248
	R2401372-005	Se (196.026 nm)	-0.0018 u	> 100.00	0.6697
	R2401372-005	Sn (189.925 nm)	0.0011	6.27	10.3085
	R2401372-005	Sr (216.596 nm)	7.9267 o	0.23	157552.2350
	R2401372-005	Ti (336.122 nm)	0.0098	3.73	1057.4739
	R2401372-005	Tl (190.794 nm)	0.0005 u	> 100.00	-0.1760
	R2401372-005	V (292.401 nm)	0.0021	9.30	34.8177
	R2401372-005	Y (360.074 nm)	0.86	0.40	410967.85
	R2401372-005	Y_R (360.074 nm)	0.86	0.40	411048.23

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401372-005	Zn (213.857 nm)	0.0121	0.99	628.2665
2/23/2024 15:56:31	R2401372-006	Ag (328.068 nm)	0.0000 u	> 100.00	-254.3020
	R2401372-006	Al (237.312 nm)	-0.0014 u	24.93	61.8745
	R2401372-006	As (188.980 nm)	0.0018 u	> 100.00	-11.7365
	R2401372-006	B (249.772 nm)	0.0011	7.47	74.3744
	R2401372-006	Ba (230.424 nm)	0.0001 u	> 100.00	-2.0187
	R2401372-006	Be (313.107 nm)	0.0000	34.17	-184.3872
	R2401372-006	Ca (317.933 nm)	0.0465	0.94	4421.3058
	R2401372-006	Cd (214.439 nm)	0.0000 u	> 100.00	-4.8340
	R2401372-006	Co (230.786 nm)	-0.0004 u	16.02	49.9238
	R2401372-006	Cr (267.716 nm)	0.0002	58.37	-3.4461
	R2401372-006	Cu (327.395 nm)	-0.0001 u	> 100.00	30.8852
	R2401372-006	Fe (234.350 nm)	0.0025	11.07	245.3305
	R2401372-006	K (766.491 nm)	0.4395	4.34	184.2438
	R2401372-006	Mg (279.078 nm)	0.0028	11.61	-17.9879
	R2401372-006	Mn (257.610 nm)	0.0001	5.30	31.6313
	R2401372-006	Mo (202.032 nm)	0.0001 u	> 100.00	-6.5836
	R2401372-006	Na (588.995 nm)	0.5289	6.13	-4949.1648
	R2401372-006	Ni (230.299 nm)	-0.0006 u	39.65	64.1128
	R2401372-006	Pb (220.353 nm)	-0.0003 u	> 100.00	14.1939
	R2401372-006	Sb (217.582 nm)	0.0073	20.54	20.1666
	R2401372-006	Se (196.026 nm)	-0.0002 u	> 100.00	1.8585
	R2401372-006	Sn (189.925 nm)	0.0007	56.16	9.3159
	R2401372-006	Sr (216.596 nm)	0.0002	17.74	-37.8834
	R2401372-006	Ti (336.122 nm)	0.0004	64.90	-149.9057
	R2401372-006	Tl (190.794 nm)	-0.0009 u	> 100.00	-1.7280
	R2401372-006	V (292.401 nm)	-0.0002 u	86.94	-57.4303
	R2401372-006	Y (360.074 nm)	1.01	0.25	481968.98
	R2401372-006	Y_R (360.074 nm)	1.01	0.25	482157.95
	R2401372-006	Zn (213.857 nm)	0.0012	3.83	25.5604
2/23/2024 15:59:45	R2401372-007	Ag (328.068 nm)	-0.0003 u	19.09	-268.0385
	R2401372-007	Al (237.312 nm)	0.0120	13.82	95.8027
	R2401372-007	As (188.980 nm)	0.0001 u	> 100.00	-14.7132
	R2401372-007	B (249.772 nm)	0.0535	0.32	1852.1236
	R2401372-007	Ba (230.424 nm)	0.1427	0.25	7049.6916
	R2401372-007	Be (313.107 nm)	0.0000	19.86	-173.7889
	R2401372-007	Ca (317.933 nm)	621.1411 o	0.16	24156101.7027
	R2401372-007	Cd (214.439 nm)	0.0000 u	> 100.00	-7.5309
	R2401372-007	Co (230.786 nm)	0.0014	24.05	77.4493
	R2401372-007	Cr (267.716 nm)	0.0004	27.72	2.4523
	R2401372-007	Cu (327.395 nm)	0.0008	21.23	65.8653
	R2401372-007	Fe (234.350 nm)	0.3099	0.11	6961.5302
	R2401372-007	K (766.491 nm)	26.8901	0.51	26718.3441
	R2401372-007	Mg (279.078 nm)	44.9167	0.11	136260.6031
	R2401372-007	Mn (257.610 nm)	0.4012	0.11	133370.8626
	R2401372-007	Mo (202.032 nm)	0.0022	22.55	10.3236
	R2401372-007	Na (588.995 nm)	416.4123 o	0.67	4734503.7051
	R2401372-007	Ni (230.299 nm)	0.0081	8.69	170.7244
	R2401372-007	Pb (220.353 nm)	0.0009 u	> 100.00	20.8330
	R2401372-007	Sb (217.582 nm)	0.0030	48.26	9.9459
	R2401372-007	Se (196.026 nm)	-0.0013 u	> 100.00	1.0000
	R2401372-007	Sn (189.925 nm)	0.0014	18.65	11.3759
	R2401372-007	Sr (216.596 nm)	4.0467	0.06	80412.4414
	R2401372-007	Ti (336.122 nm)	0.0068	2.80	675.3146
	R2401372-007	Tl (190.794 nm)	0.0017	> 100.00	1.0856
	R2401372-007	V (292.401 nm)	-0.0008 u	15.21	-80.1824
	R2401372-007	Y (360.074 nm)	0.86	0.35	408227.73

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401372-007	Y_R (360.074 nm)	0.86	0.35	408334.89
	R2401372-007	Zn (213.857 nm)	0.0034	4.38	148.6420
2/23/2024 16:02:59	R2401372-008	Ag (328.068 nm)	-0.0002 u	8.42	-264.3723
	R2401372-008	Al (237.312 nm)	0.0090	16.83	88.1323
	R2401372-008	As (188.980 nm)	-0.0003 u	> 100.00	-15.4484
	R2401372-008	B (249.772 nm)	0.0552	0.39	1907.4669
	R2401372-008	Ba (230.424 nm)	0.1291	0.13	6378.1640
	R2401372-008	Be (313.107 nm)	0.0000	84.08	-165.8885
	R2401372-008	Ca (317.933 nm)	587.8329 o	0.18	22860890.1315
	R2401372-008	Cd (214.439 nm)	0.0000 u	> 100.00	-6.8480
	R2401372-008	Co (230.786 nm)	0.0013	34.93	76.6339
	R2401372-008	Cr (267.716 nm)	0.0034	3.53	132.3349
	R2401372-008	Cu (327.395 nm)	0.0004	6.32	49.1637
	R2401372-008	Fe (234.350 nm)	0.2570	0.29	5806.0843
	R2401372-008	K (766.491 nm)	25.0963	0.28	24918.9265
	R2401372-008	Mg (279.078 nm)	44.1612	0.13	133968.1406
	R2401372-008	Mn (257.610 nm)	0.3901	0.11	129652.3430
	R2401372-008	Mo (202.032 nm)	0.0027	4.32	14.2897
	R2401372-008	Na (588.995 nm)	391.8232 o	0.32	4454283.6557
	R2401372-008	Ni (230.299 nm)	0.0026	14.30	103.2154
	R2401372-008	Pb (220.353 nm)	0.0000 u	> 100.00	15.8929
	R2401372-008	Sb (217.582 nm)	0.0045	45.71	13.5758
	R2401372-008	Se (196.026 nm)	-0.0060 u	72.97	-2.4613
	R2401372-008	Sn (189.925 nm)	0.0014	62.53	11.1935
	R2401372-008	Sr (216.596 nm)	3.8738	0.32	76975.4656
	R2401372-008	Ti (336.122 nm)	0.0063	2.74	604.6463
	R2401372-008	Tl (190.794 nm)	0.0010 u	> 100.00	0.2968
	R2401372-008	V (292.401 nm)	-0.0009 u	20.20	-85.2648
	R2401372-008	Y (360.074 nm)	0.86	0.24	410897.14
	R2401372-008	Y_R (360.074 nm)	0.86	0.24	410998.38
	R2401372-008	Zn (213.857 nm)	0.0028	2.79	114.9012
2/23/2024 16:06:13	R2401414-001	Ag (328.068 nm)	-0.0003 u	32.29	-267.7556
	R2401414-001	Al (237.312 nm)	0.4516	0.43	1205.3161
	R2401414-001	As (188.980 nm)	0.0042	27.71	-7.5115
	R2401414-001	B (249.772 nm)	0.0679	0.21	2338.5753
	R2401414-001	Ba (230.424 nm)	0.0389	0.33	1917.2353
	R2401414-001	Be (313.107 nm)	0.0001	30.16	-144.3054
	R2401414-001	Ca (317.933 nm)	488.1316 o	0.14	18983935.5553
	R2401414-001	Cd (214.439 nm)	0.0000 u	> 100.00	-7.5258
	R2401414-001	Co (230.786 nm)	0.0028	12.62	99.5725
	R2401414-001	Cr (267.716 nm)	0.0009	2.84	26.7442
	R2401414-001	Cu (327.395 nm)	0.0009	11.07	70.6733
	R2401414-001	Fe (234.350 nm)	2.6009	0.17	57000.8543
	R2401414-001	K (766.491 nm)	13.5596	0.16	13345.7424
	R2401414-001	Mg (279.078 nm)	65.0637 o	0.11	197390.9153
	R2401414-001	Mn (257.610 nm)	0.4887	0.07	162438.1515
	R2401414-001	Mo (202.032 nm)	0.0034	9.14	19.6546
	R2401414-001	Na (588.995 nm)	371.6221 o	0.33	4224069.5182
	R2401414-001	Ni (230.299 nm)	0.0037	9.27	116.8727
	R2401414-001	Pb (220.353 nm)	0.0003 u	> 100.00	17.3458
	R2401414-001	Sb (217.582 nm)	0.0028	54.52	9.6320
	R2401414-001	Se (196.026 nm)	-0.0018 u	> 100.00	0.6903
	R2401414-001	Sn (189.925 nm)	0.0009	66.11	9.9316
	R2401414-001	Sr (216.596 nm)	3.6282	0.35	72090.9698
	R2401414-001	Ti (336.122 nm)	0.0160	1.53	1842.3086
	R2401414-001	Tl (190.794 nm)	0.0007 u	> 100.00	-0.0319
	R2401414-001	V (292.401 nm)	-0.0001 u	> 100.00	-53.0646

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401414-001	Y (360.074 nm)	0.87	0.37	414871.01
	R2401414-001	Y_R (360.074 nm)	0.87	0.37	414976.02
	R2401414-001	Zn (213.857 nm)	0.0038	0.86	170.2388
2/23/2024 16:09:27	R2401414-002	Ag (328.068 nm)	-0.0001 u	> 100.00	-258.0207
	R2401414-002	Al (237.312 nm)	0.0000 u	> 100.00	65.4933
	R2401414-002	As (188.980 nm)	0.0005 u	> 100.00	-14.0698
	R2401414-002	B (249.772 nm)	0.0011	12.66	74.6125
	R2401414-002	Ba (230.424 nm)	0.0001	33.04	-0.2069
	R2401414-002	Be (313.107 nm)	0.0000	74.99	-180.4016
	R2401414-002	Ca (317.933 nm)	0.0351	0.40	3978.4240
	R2401414-002	Cd (214.439 nm)	0.0000	93.89	-4.3513
	R2401414-002	Co (230.786 nm)	-0.0004 u	87.54	49.6181
	R2401414-002	Cr (267.716 nm)	0.0047	2.44	187.8198
	R2401414-002	Cu (327.395 nm)	0.0001 u	> 100.00	39.8666
	R2401414-002	Fe (234.350 nm)	0.0380	2.44	1022.6952
	R2401414-002	K (766.491 nm)	0.3865	11.39	131.0316
	R2401414-002	Mg (279.078 nm)	0.0047	53.45	-12.1457
	R2401414-002	Mn (257.610 nm)	0.0004	2.11	105.6166
	R2401414-002	Mo (202.032 nm)	0.0002	10.16	-5.6768
	R2401414-002	Na (588.995 nm)	0.5945	4.16	-4201.2977
	R2401414-002	Ni (230.299 nm)	-0.0005 u	90.16	65.3719
	R2401414-002	Pb (220.353 nm)	0.0002 u	> 100.00	16.7722
	R2401414-002	Sb (217.582 nm)	0.0070	29.43	19.5733
	R2401414-002	Se (196.026 nm)	-0.0003 u	> 100.00	1.7578
	R2401414-002	Sn (189.925 nm)	0.0001 u	> 100.00	7.3416
	R2401414-002	Sr (216.596 nm)	0.0004	32.60	-33.9817
	R2401414-002	Ti (336.122 nm)	0.0001 u	> 100.00	-183.9561
	R2401414-002	Tl (190.794 nm)	-0.0008 u	> 100.00	-1.6019
	R2401414-002	V (292.401 nm)	-0.0001 u	> 100.00	-53.1696
	R2401414-002	Y (360.074 nm)	1.01	0.43	483540.45
	R2401414-002	Y_R (360.074 nm)	1.01	0.43	483708.88
	R2401414-002	Zn (213.857 nm)	0.0039	1.45	178.1052
2/23/2024 16:12:40	R2401414-003	Ag (328.068 nm)	-0.0003 u	> 100.00	-267.9950
	R2401414-003	Al (237.312 nm)	0.0644	2.50	228.1431
	R2401414-003	As (188.980 nm)	0.0011 u	> 100.00	-12.9298
	R2401414-003	B (249.772 nm)	0.0891	0.27	3059.6250
	R2401414-003	Ba (230.424 nm)	0.0455	0.43	2244.9949
	R2401414-003	Be (313.107 nm)	0.0000	11.63	-163.5984
	R2401414-003	Ca (317.933 nm)	495.3514 o	0.31	19264685.1544
	R2401414-003	Cd (214.439 nm)	0.0003	14.55	12.3001
	R2401414-003	Co (230.786 nm)	0.0020	12.01	87.4128
	R2401414-003	Cr (267.716 nm)	0.0014	13.86	46.0182
	R2401414-003	Cu (327.395 nm)	0.0016	15.00	98.7681
	R2401414-003	Fe (234.350 nm)	2.2372	0.23	49056.4820
	R2401414-003	K (766.491 nm)	16.8221	0.26	16618.5587
	R2401414-003	Mg (279.078 nm)	72.5521 o	0.22	220112.2277
	R2401414-003	Mn (257.610 nm)	0.5927	0.18	197028.3353
	R2401414-003	Mo (202.032 nm)	0.0034	21.62	19.5091
	R2401414-003	Na (588.995 nm)	382.5670 o	0.53	4348798.4229
	R2401414-003	Ni (230.299 nm)	0.0048	4.70	130.5661
	R2401414-003	Pb (220.353 nm)	0.0014	95.78	23.3417
	R2401414-003	Sb (217.582 nm)	0.0030	65.83	9.9573
	R2401414-003	Se (196.026 nm)	-0.0021 u	> 100.00	0.4536
	R2401414-003	Sn (189.925 nm)	0.0013	57.32	11.0191
	R2401414-003	Sr (216.596 nm)	3.7673	0.49	74857.7473
	R2401414-003	Ti (336.122 nm)	0.0060	4.51	565.0232
	R2401414-003	Tl (190.794 nm)	0.0001 u	> 100.00	-0.6281

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401414-003	V (292.401 nm)	-0.0002 u	96.94	-58.7497
	R2401414-003	Y (360.074 nm)	0.87	0.20	412975.85
	R2401414-003	Y_R (360.074 nm)	0.87	0.20	412988.03
	R2401414-003	Zn (213.857 nm)	0.0084	1.50	427.2363
2/23/2024 16:15:54	Continuing Calibration Verification	Ag (328.068 nm)	0.5216	0.02	30493.2012
	Continuing Calibration Verification	Al (237.312 nm)	10.0328	0.05	25390.4423
	Continuing Calibration Verification	As (188.980 nm)	0.9828	0.30	1742.6489
	Continuing Calibration Verification	B (249.772 nm)	2.4174	0.16	82025.6292
	Continuing Calibration Verification	Ba (230.424 nm)	10.2790	0.20	508321.2103
	Continuing Calibration Verification	Be (313.107 nm)	0.2403	0.13	260667.3611
	Continuing Calibration Verification	Ca (317.933 nm)	25.8613	0.14	1008248.2486
	Continuing Calibration Verification	Cd (214.439 nm)	0.5068	0.14	33036.9940
	Continuing Calibration Verification	Co (230.786 nm)	2.5517	0.15	40542.2341
	Continuing Calibration Verification	Cr (267.716 nm)	0.5214	0.11	22558.9828
	Continuing Calibration Verification	Cu (327.395 nm)	1.2453	0.37	51918.4395
	Continuing Calibration Verification	Fe (234.350 nm)	5.0377	0.15	110225.7727
	Continuing Calibration Verification	K (766.491 nm)	25.0192	0.07	24841.5853
	Continuing Calibration Verification	Mg (279.078 nm)	25.3692	0.11	76949.0159
	Continuing Calibration Verification	Mn (257.610 nm)	0.7501	0.09	249326.1994
	Continuing Calibration Verification	Mo (202.032 nm)	2.5348	0.68	20235.6060
	Continuing Calibration Verification	Na (588.995 nm)	25.6917	0.16	281808.6118
	Continuing Calibration Verification	Ni (230.299 nm)	2.1089	0.05	25967.4101
	Continuing Calibration Verification	Pb (220.353 nm)	0.5061	0.25	2801.7675
	Continuing Calibration Verification	Sb (217.582 nm)	4.9431	0.02	11701.0478
	Continuing Calibration Verification	Se (196.026 nm)	0.4857	0.44	367.0448
	Continuing Calibration Verification	Sn (189.925 nm)	5.0513	0.10	15057.1552
	Continuing Calibration Verification	Sr (216.596 nm)	2.5076	0.44	49812.5911
	Continuing Calibration Verification	Ti (336.122 nm)	2.5220	0.08	321135.3715
	Continuing Calibration Verification	Tl (190.794 nm)	1.0063	0.28	1076.6648
	Continuing Calibration Verification	V (292.401 nm)	2.5213	0.12	100094.3365
	Continuing Calibration Verification	Y (360.074 nm)	0.95	0.47	455003.46
	Continuing Calibration Verification	Y_R (360.074 nm)	0.95	0.47	455025.55
	Continuing Calibration Verification	Zn (213.857 nm)	0.9945	0.17	54948.5321
2/23/2024 16:19:08	Continuing Calibration Blank	Ag (328.068 nm)	0.0001	63.84	-246.2306
	Continuing Calibration Blank	Al (237.312 nm)	-0.0006 u	> 100.00	63.9359
	Continuing Calibration Blank	As (188.980 nm)	0.0029	51.13	-9.8468
	Continuing Calibration Blank	B (249.772 nm)	0.0013	35.89	81.8045
	Continuing Calibration Blank	Ba (230.424 nm)	0.0004	16.52	12.9415
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	35.83	-184.1584
	Continuing Calibration Blank	Ca (317.933 nm)	0.0026	4.01	2714.6207
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	-8.6885
	Continuing Calibration Blank	Co (230.786 nm)	0.0002	> 100.00	58.6006
	Continuing Calibration Blank	Cr (267.716 nm)	-0.0002 u	> 100.00	-21.9652
	Continuing Calibration Blank	Cu (327.395 nm)	-0.0002 u	96.47	26.9706
	Continuing Calibration Blank	Fe (234.350 nm)	0.0035	17.57	268.6133
	Continuing Calibration Blank	K (766.491 nm)	0.3012	5.04	45.5034
	Continuing Calibration Blank	Mg (279.078 nm)	0.0020	88.15	-20.4866
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000	51.55	-3.7126
	Continuing Calibration Blank	Mo (202.032 nm)	0.0064	11.37	43.8694
	Continuing Calibration Blank	Na (588.995 nm)	0.3787	0.62	-6660.9946
	Continuing Calibration Blank	Ni (230.299 nm)	-0.0004 u	11.07	66.5320
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0003 u	> 100.00	13.8899
	Continuing Calibration Blank	Sb (217.582 nm)	0.0081	9.62	22.0926
	Continuing Calibration Blank	Se (196.026 nm)	-0.0022 u	25.21	0.3264
	Continuing Calibration Blank	Sn (189.925 nm)	0.0016	9.83	11.8912
	Continuing Calibration Blank	Sr (216.596 nm)	-0.0002 u	> 100.00	-45.9427
	Continuing Calibration Blank	Ti (336.122 nm)	0.0058	27.74	539.6537

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Tl (190.794 nm)	-0.0016 u	62.48	-2.4736
	Continuing Calibration Blank	V (292.401 nm)	-0.0002 u	56.61	-58.3189
	Continuing Calibration Blank	Y (360.074 nm)	1.00	0.24	475997.24
	Continuing Calibration Blank	Y_R (360.074 nm)	1.00	0.24	476071.41
	Continuing Calibration Blank	Zn (213.857 nm)	0.0000 u	> 100.00	-37.3537
2/23/2024 16:22:22	R2401415-001	Ag (328.068 nm)	-0.0002 u	61.08	-265.0455
	R2401415-001	Al (237.312 nm)	0.4621	1.03	1231.8188
	R2401415-001	As (188.980 nm)	0.0020	21.42	-11.3916
	R2401415-001	B (249.772 nm)	0.0383	0.59	1334.2197
	R2401415-001	Ba (230.424 nm)	0.0656	0.05	3239.9679
	R2401415-001	Be (313.107 nm)	0.0000	34.33	-159.2439
	R2401415-001	Ca (317.933 nm)	161.8085 o	0.11	6294642.6807
	R2401415-001	Cd (214.439 nm)	0.0000 u	> 100.00	-6.3355
	R2401415-001	Co (230.786 nm)	0.0004	22.04	61.5638
	R2401415-001	Cr (267.716 nm)	0.0028	2.78	106.0530
	R2401415-001	Cu (327.395 nm)	0.0016	16.27	100.3948
	R2401415-001	Fe (234.350 nm)	0.6318	0.11	13992.0871
	R2401415-001	K (766.491 nm)	3.7310	1.14	3486.1346
	R2401415-001	Mg (279.078 nm)	26.3135	0.10	79814.4752
	R2401415-001	Mn (257.610 nm)	0.0535	0.12	17780.1619
	R2401415-001	Mo (202.032 nm)	0.0025	30.54	12.1792
	R2401415-001	Na (588.995 nm)	79.4094 o	0.20	893981.9699
	R2401415-001	Ni (230.299 nm)	0.0018	18.93	94.0254
	R2401415-001	Pb (220.353 nm)	-0.0001 u	> 100.00	15.4165
	R2401415-001	Sb (217.582 nm)	0.0049	49.34	14.4624
	R2401415-001	Se (196.026 nm)	-0.0013 u	> 100.00	1.0323
	R2401415-001	Sn (189.925 nm)	0.0006	54.39	8.7985
	R2401415-001	Sr (216.596 nm)	2.0668	0.47	41049.8090
	R2401415-001	Ti (336.122 nm)	0.0126	7.93	1413.0784
	R2401415-001	Tl (190.794 nm)	0.0002 u	> 100.00	-0.5381
	R2401415-001	V (292.401 nm)	0.0005	13.62	-31.2979
	R2401415-001	Y (360.074 nm)	0.94	0.34	446796.79
	R2401415-001	Y_R (360.074 nm)	0.94	0.34	446853.49
	R2401415-001	Zn (213.857 nm)	0.0045	2.37	210.3796
2/23/2024 16:25:36	R2401415-002	Ag (328.068 nm)	0.0000 u	> 100.00	-254.0449
	R2401415-002	Al (237.312 nm)	0.1717	0.42	498.9602
	R2401415-002	As (188.980 nm)	0.0030	33.85	-9.6631
	R2401415-002	B (249.772 nm)	0.0373	0.14	1300.4010
	R2401415-002	Ba (230.424 nm)	0.0657	0.10	3244.6844
	R2401415-002	Be (313.107 nm)	0.0000	31.96	-182.6712
	R2401415-002	Ca (317.933 nm)	163.1475 o	0.17	6346713.5059
	R2401415-002	Cd (214.439 nm)	0.0001 u	> 100.00	-2.2883
	R2401415-002	Co (230.786 nm)	0.0005	71.54	63.5862
	R2401415-002	Cr (267.716 nm)	0.0001	53.82	-11.2408
	R2401415-002	Cu (327.395 nm)	0.0010	34.18	75.7038
	R2401415-002	Fe (234.350 nm)	0.3471	0.14	7774.1557
	R2401415-002	K (766.491 nm)	3.6558	1.26	3410.6900
	R2401415-002	Mg (279.078 nm)	26.2534	0.10	79631.8760
	R2401415-002	Mn (257.610 nm)	0.0441	0.05	14646.8727
	R2401415-002	Mo (202.032 nm)	0.0020	15.50	8.1192
	R2401415-002	Na (588.995 nm)	79.9210 o	0.06	899811.9809
	R2401415-002	Ni (230.299 nm)	0.0007	95.89	80.4355
	R2401415-002	Pb (220.353 nm)	0.0003 u	> 100.00	17.5442
	R2401415-002	Sb (217.582 nm)	0.0064	13.90	18.1311
	R2401415-002	Se (196.026 nm)	-0.0019 u	> 100.00	0.6210
	R2401415-002	Sn (189.925 nm)	-0.0004 u	46.74	6.0620
	R2401415-002	Sr (216.596 nm)	2.0810	0.49	41330.8652

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401415-002	Ti (336.122 nm)	0.0054	9.66	494.9875
	R2401415-002	Tl (190.794 nm)	-0.0007 u	> 100.00	-1.5340
	R2401415-002	V (292.401 nm)	0.0002	34.93	-41.2739
	R2401415-002	Y (360.074 nm)	0.94	0.31	447165.21
	R2401415-002	Y_R (360.074 nm)	0.94	0.31	447212.54
	R2401415-002	Zn (213.857 nm)	0.0059	1.39	286.5412
2/23/2024 16:28:50	R2401458-001	Ag (328.068 nm)	-0.0003 u	31.25	-269.3147
	R2401458-001	Al (237.312 nm)	0.0183	1.66	111.7667
	R2401458-001	As (188.980 nm)	0.0034	7.99	-8.9195
	R2401458-001	B (249.772 nm)	0.8092	0.13	27482.2172
	R2401458-001	Ba (230.424 nm)	0.1074	0.28	5304.5554
	R2401458-001	Be (313.107 nm)	0.0000	89.29	-187.4179
	R2401458-001	Ca (317.933 nm)	131.8478 o	0.13	5129602.9126
	R2401458-001	Cd (214.439 nm)	0.0001	33.22	1.1273
	R2401458-001	Co (230.786 nm)	0.0019	7.83	86.3179
	R2401458-001	Cr (267.716 nm)	-0.0001 u	92.13	-16.6168
	R2401458-001	Cu (327.395 nm)	0.0035	12.72	179.6984
	R2401458-001	Fe (234.350 nm)	3.3129	0.14	72552.8170
	R2401458-001	K (766.491 nm)	6.5314	0.53	6295.3747
	R2401458-001	Mg (279.078 nm)	17.0335	0.12	51656.8989
	R2401458-001	Mn (257.610 nm)	1.0650	0.10	354018.5755
	R2401458-001	Mo (202.032 nm)	0.0039	5.92	23.5590
	R2401458-001	Na (588.995 nm)	38.7370	0.58	430475.1528
	R2401458-001	Ni (230.299 nm)	0.0049	6.64	132.1618
	R2401458-001	Pb (220.353 nm)	0.0018	43.25	25.8177
	R2401458-001	Sb (217.582 nm)	0.0061	8.58	17.5120
	R2401458-001	Se (196.026 nm)	-0.0042 u	44.23	-1.1589
	R2401458-001	Sn (189.925 nm)	0.0001 u	> 100.00	7.2938
	R2401458-001	Sr (216.596 nm)	0.4279	0.21	8465.3043
	R2401458-001	Ti (336.122 nm)	0.0017	18.62	25.8315
	R2401458-001	Tl (190.794 nm)	0.0007 u	> 100.00	-0.0232
	R2401458-001	V (292.401 nm)	-0.0001 u	> 100.00	-55.6322
	R2401458-001	Y (360.074 nm)	0.95	0.37	453499.40
	R2401458-001	Y_R (360.074 nm)	0.95	0.37	453576.71
	R2401458-001	Zn (213.857 nm)	0.0706	0.27	3862.3312
2/23/2024 16:32:04	R2401372-001 10X	Ag (328.068 nm)	0.0000 u	> 100.00	-253.7016
	R2401372-001 10X	Al (237.312 nm)	0.0067	23.44	82.2761
	R2401372-001 10X	As (188.980 nm)	0.0020	63.37	-11.3882
	R2401372-001 10X	B (249.772 nm)	0.0076	1.19	292.9035
	R2401372-001 10X	Ba (230.424 nm)	0.0645	0.71	3183.5548
	R2401372-001 10X	Be (313.107 nm)	0.0000	58.74	-190.6263
	R2401372-001 10X	Ca (317.933 nm)	223.9583 o	0.36	8711379.4068
	R2401372-001 10X	Cd (214.439 nm)	0.0000 u	> 100.00	-8.8307
	R2401372-001 10X	Co (230.786 nm)	0.0006	88.85	65.5700
	R2401372-001 10X	Cr (267.716 nm)	0.0006	12.24	12.3798
	R2401372-001 10X	Cu (327.395 nm)	0.0000 u	> 100.00	31.8939
	R2401372-001 10X	Fe (234.350 nm)	0.0170	5.65	562.9443
	R2401372-001 10X	K (766.491 nm)	6.8702	0.19	6635.2610
	R2401372-001 10X	Mg (279.078 nm)	2.0924	0.56	6322.3971
	R2401372-001 10X	Mn (257.610 nm)	0.0017	1.16	552.4443
	R2401372-001 10X	Mo (202.032 nm)	0.0013	31.09	3.1551
	R2401372-001 10X	Na (588.995 nm)	167.6261 o	0.74	1899309.4141
	R2401372-001 10X	Ni (230.299 nm)	0.0016	9.46	90.9809
	R2401372-001 10X	Pb (220.353 nm)	0.0005	33.41	18.5711
	R2401372-001 10X	Sb (217.582 nm)	0.0039	40.65	12.1175
	R2401372-001 10X	Se (196.026 nm)	-0.0028 u	35.88	-0.0809
	R2401372-001 10X	Sn (189.925 nm)	0.0011	14.24	10.5353

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401372-001 10X	Sr (216.596 nm)	0.9865	0.46	19570.5664
	R2401372-001 10X	Ti (336.122 nm)	0.0024	4.01	108.6010
	R2401372-001 10X	Tl (190.794 nm)	0.0002 u	> 100.00	-0.5751
	R2401372-001 10X	V (292.401 nm)	-0.0003 u	69.29	-63.0020
	R2401372-001 10X	Y (360.074 nm)	0.92	0.30	437276.18
	R2401372-001 10X	Y_R (360.074 nm)	0.92	0.30	437354.80
	R2401372-001 10X	Zn (213.857 nm)	0.0004	7.19	-18.2540
2/23/2024 16:35:18	R2401372-002 10X	Ag (328.068 nm)	-0.0001 u	> 100.00	-258.4522
	R2401372-002 10X	Al (237.312 nm)	0.0001 u	> 100.00	65.6480
	R2401372-002 10X	As (188.980 nm)	-0.0007 u	> 100.00	-16.1524
	R2401372-002 10X	B (249.772 nm)	0.0054	4.34	219.4235
	R2401372-002 10X	Ba (230.424 nm)	0.0039	3.65	189.6780
	R2401372-002 10X	Be (313.107 nm)	0.0000	> 100.00	-193.3419
	R2401372-002 10X	Ca (317.933 nm)	25.6955	1.45	1001797.9947
	R2401372-002 10X	Cd (214.439 nm)	0.0000 u	> 100.00	-7.9124
	R2401372-002 10X	Co (230.786 nm)	0.0001 u	> 100.00	57.1343
	R2401372-002 10X	Cr (267.716 nm)	0.0000 u	> 100.00	-12.8035
	R2401372-002 10X	Cu (327.395 nm)	0.0002	> 100.00	42.3930
	R2401372-002 10X	Fe (234.350 nm)	0.0031	14.75	260.2121
	R2401372-002 10X	K (766.491 nm)	0.7325	3.28	478.1049
	R2401372-002 10X	Mg (279.078 nm)	3.4416	1.49	10416.0121
	R2401372-002 10X	Mn (257.610 nm)	0.0105	1.43	3471.4202
	R2401372-002 10X	Mo (202.032 nm)	0.0004	52.05	-4.3298
	R2401372-002 10X	Na (588.995 nm)	15.0092	1.54	160069.7109
	R2401372-002 10X	Ni (230.299 nm)	0.0004	87.10	76.9461
	R2401372-002 10X	Pb (220.353 nm)	-0.0001 u	> 100.00	15.0355
	R2401372-002 10X	Sb (217.582 nm)	0.0016	21.14	6.6836
	R2401372-002 10X	Se (196.026 nm)	-0.0030 u	> 100.00	-0.2543
	R2401372-002 10X	Sn (189.925 nm)	0.0008	53.65	9.6504
	R2401372-002 10X	Sr (216.596 nm)	0.2249	1.52	4428.9740
	R2401372-002 10X	Ti (336.122 nm)	0.0005	27.97	-137.3124
	R2401372-002 10X	Tl (190.794 nm)	-0.0002 u	> 100.00	-0.9836
	R2401372-002 10X	V (292.401 nm)	-0.0001 u	> 100.00	-51.9612
	R2401372-002 10X	Y (360.074 nm)	0.98	0.22	468204.53
	R2401372-002 10X	Y_R (360.074 nm)	0.98	0.22	468307.89
	R2401372-002 10X	Zn (213.857 nm)	0.0003	12.33	-24.5178
2/23/2024 16:38:32	R2401372-005 10X	Ag (328.068 nm)	-0.0001 u	> 100.00	-256.6118
	R2401372-005 10X	Al (237.312 nm)	0.0132	9.21	98.6968
	R2401372-005 10X	As (188.980 nm)	0.0007 u	> 100.00	-13.6352
	R2401372-005 10X	B (249.772 nm)	0.0088	0.26	336.2826
	R2401372-005 10X	Ba (230.424 nm)	0.0513	0.42	2530.0617
	R2401372-005 10X	Be (313.107 nm)	0.0000 u	> 100.00	-184.1090
	R2401372-005 10X	Ca (317.933 nm)	73.8436 o	0.19	2874070.1003
	R2401372-005 10X	Cd (214.439 nm)	0.0000 u	> 100.00	-8.3439
	R2401372-005 10X	Co (230.786 nm)	0.0003	86.78	60.2306
	R2401372-005 10X	Cr (267.716 nm)	0.0006	15.29	12.7780
	R2401372-005 10X	Cu (327.395 nm)	0.0003	6.85	47.8479
	R2401372-005 10X	Fe (234.350 nm)	0.0235	0.90	703.9820
	R2401372-005 10X	K (766.491 nm)	2.5751	1.71	2326.5573
	R2401372-005 10X	Mg (279.078 nm)	0.2878	0.64	846.7357
	R2401372-005 10X	Mn (257.610 nm)	0.0006	1.06	186.1534
	R2401372-005 10X	Mo (202.032 nm)	0.0011	30.36	1.3650
	R2401372-005 10X	Na (588.995 nm)	45.4923	0.10	507458.8738
	R2401372-005 10X	Ni (230.299 nm)	0.0024	15.46	101.6469
	R2401372-005 10X	Pb (220.353 nm)	0.0001 u	> 100.00	16.3515
	R2401372-005 10X	Sb (217.582 nm)	0.0008 u	> 100.00	4.8068
	R2401372-005 10X	Se (196.026 nm)	-0.0034 u	33.03	-0.5681

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401372-005 10X	Sn (189.925 nm)	0.0003 u	> 100.00	8.0551
	R2401372-005 10X	Sr (216.596 nm)	0.8359	0.08	16576.0275
	R2401372-005 10X	Ti (336.122 nm)	0.0011	10.36	-50.2827
	R2401372-005 10X	Tl (190.794 nm)	-0.0003 u	> 100.00	-1.1083
	R2401372-005 10X	V (292.401 nm)	0.0001 u	> 100.00	-45.2782
	R2401372-005 10X	Y (360.074 nm)	0.96	0.32	457968.13
	R2401372-005 10X	Y_R (360.074 nm)	0.96	0.32	458052.02
	R2401372-005 10X	Zn (213.857 nm)	0.0013	3.75	34.7541
2/23/2024 16:41:46	R2401372-006 10X	Ag (328.068 nm)	0.0000 u	> 100.00	-253.6936
	R2401372-006 10X	Al (237.312 nm)	0.0008	24.72	67.5358
	R2401372-006 10X	As (188.980 nm)	0.0021	65.29	-11.1232
	R2401372-006 10X	B (249.772 nm)	0.0002 u	> 100.00	42.9809
	R2401372-006 10X	Ba (230.424 nm)	0.0001	> 100.00	-0.3589
	R2401372-006 10X	Be (313.107 nm)	0.0000	79.01	-190.8242
	R2401372-006 10X	Ca (317.933 nm)	0.0200	0.30	3391.4604
	R2401372-006 10X	Cd (214.439 nm)	0.0000 u	> 100.00	-9.8294
	R2401372-006 10X	Co (230.786 nm)	-0.0002 u	54.42	53.2638
	R2401372-006 10X	Cr (267.716 nm)	-0.0001 u	> 100.00	-19.7105
	R2401372-006 10X	Cu (327.395 nm)	-0.0002 u	96.70	25.9836
	R2401372-006 10X	Fe (234.350 nm)	0.0005	20.42	202.0664
	R2401372-006 10X	K (766.491 nm)	0.1606	4.35	-95.5371
	R2401372-006 10X	Mg (279.078 nm)	0.0010 u	> 100.00	-23.3580
	R2401372-006 10X	Mn (257.610 nm)	0.0000	17.07	4.7357
	R2401372-006 10X	Mo (202.032 nm)	0.0001 u	> 100.00	-6.6733
	R2401372-006 10X	Na (588.995 nm)	0.2460	2.80	-8173.1945
	R2401372-006 10X	Ni (230.299 nm)	-0.0002 u	36.26	68.6057
	R2401372-006 10X	Pb (220.353 nm)	-0.0003 u	7.99	13.8893
	R2401372-006 10X	Sb (217.582 nm)	0.0022	25.08	8.1504
	R2401372-006 10X	Se (196.026 nm)	-0.0031 u	30.45	-0.2959
	R2401372-006 10X	Sn (189.925 nm)	0.0005 u	> 100.00	8.5315
	R2401372-006 10X	Sr (216.596 nm)	0.0000 u	> 100.00	-41.1792
	R2401372-006 10X	Ti (336.122 nm)	0.0003	34.42	-163.6779
	R2401372-006 10X	Tl (190.794 nm)	-0.0018 u	56.60	-2.6438
	R2401372-006 10X	V (292.401 nm)	-0.0001 u	15.20	-55.5519
	R2401372-006 10X	Y (360.074 nm)	1.00	0.20	477696.19
	R2401372-006 10X	Y_R (360.074 nm)	1.00	0.20	477822.02
	R2401372-006 10X	Zn (213.857 nm)	0.0003	26.06	-24.9879
2/23/2024 16:45:00	R2401372-007 10X	Ag (328.068 nm)	0.0000 u	> 100.00	-250.4477
	R2401372-007 10X	Al (237.312 nm)	0.0029	39.72	72.7187
	R2401372-007 10X	As (188.980 nm)	0.0002 u	> 100.00	-14.6106
	R2401372-007 10X	B (249.772 nm)	0.0053	1.99	215.8638
	R2401372-007 10X	Ba (230.424 nm)	0.0146	0.69	717.2392
	R2401372-007 10X	Be (313.107 nm)	0.0000 u	> 100.00	-195.7713
	R2401372-007 10X	Ca (317.933 nm)	74.8329 o	0.02	2912540.2077
	R2401372-007 10X	Cd (214.439 nm)	0.0000 u	> 100.00	-8.3962
	R2401372-007 10X	Co (230.786 nm)	0.0003	27.61	60.0917
	R2401372-007 10X	Cr (267.716 nm)	-0.0003 u	87.39	-25.0094
	R2401372-007 10X	Cu (327.395 nm)	0.0002	23.30	40.0460
	R2401372-007 10X	Fe (234.350 nm)	0.0314	0.45	878.5090
	R2401372-007 10X	K (766.491 nm)	2.2944	1.41	2044.9385
	R2401372-007 10X	Mg (279.078 nm)	4.6043	0.08	13943.8066
	R2401372-007 10X	Mn (257.610 nm)	0.0409	0.19	13585.6950
	R2401372-007 10X	Mo (202.032 nm)	0.0004	48.67	-4.3119
	R2401372-007 10X	Na (588.995 nm)	41.7826	0.22	465183.1996
	R2401372-007 10X	Ni (230.299 nm)	0.0015	27.21	90.2666
	R2401372-007 10X	Pb (220.353 nm)	-0.0006 u	42.86	12.3898
	R2401372-007 10X	Sb (217.582 nm)	0.0001 u	> 100.00	3.2847

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401372-007 10X	Se (196.026 nm)	-0.0004 u	> 100.00	1.7170
	R2401372-007 10X	Sn (189.925 nm)	0.0006 u	> 100.00	8.9279
	R2401372-007 10X	Sr (216.596 nm)	0.4196	0.24	8300.9656
	R2401372-007 10X	Ti (336.122 nm)	0.0008	8.92	-98.6458
	R2401372-007 10X	Tl (190.794 nm)	0.0007	23.61	0.0275
	R2401372-007 10X	V (292.401 nm)	-0.0001 u	> 100.00	-55.3433
	R2401372-007 10X	Y (360.074 nm)	0.96	0.23	457953.94
	R2401372-007 10X	Y_R (360.074 nm)	0.96	0.23	458066.39
	R2401372-007 10X	Zn (213.857 nm)	0.0004	8.46	-16.9829
2/23/2024 16:48:14	R2401372-008 10X	Ag (328.068 nm)	-0.0001 u	> 100.00	-258.4012
	R2401372-008 10X	Al (237.312 nm)	0.0020	51.80	70.5341
	R2401372-008 10X	As (188.980 nm)	-0.0004 u	> 100.00	-15.7270
	R2401372-008 10X	B (249.772 nm)	0.0053	4.84	217.2947
	R2401372-008 10X	Ba (230.424 nm)	0.0135	0.74	661.8951
	R2401372-008 10X	Be (313.107 nm)	0.0000	60.57	-188.8847
	R2401372-008 10X	Ca (317.933 nm)	71.4626 o	0.11	2781484.6888
	R2401372-008 10X	Cd (214.439 nm)	-0.0001 u	46.89	-12.3054
	R2401372-008 10X	Co (230.786 nm)	0.0001 u	> 100.00	57.5464
	R2401372-008 10X	Cr (267.716 nm)	0.0002	74.13	-4.8808
	R2401372-008 10X	Cu (327.395 nm)	-0.0002 u	> 100.00	23.9127
	R2401372-008 10X	Fe (234.350 nm)	0.0273	0.66	788.9459
	R2401372-008 10X	K (766.491 nm)	2.1914	1.36	1941.6155
	R2401372-008 10X	Mg (279.078 nm)	4.6197	0.08	13990.6948
	R2401372-008 10X	Mn (257.610 nm)	0.0406	0.15	13470.5295
	R2401372-008 10X	Mo (202.032 nm)	0.0005	93.50	-3.2635
	R2401372-008 10X	Na (588.995 nm)	40.0979	0.13	445983.4892
	R2401372-008 10X	Ni (230.299 nm)	0.0004 u	> 100.00	75.9714
	R2401372-008 10X	Pb (220.353 nm)	-0.0001 u	> 100.00	15.4248
	R2401372-008 10X	Sb (217.582 nm)	0.0020 u	94.69	7.6638
	R2401372-008 10X	Se (196.026 nm)	-0.0013 u	76.80	1.0497
	R2401372-008 10X	Sn (189.925 nm)	0.0009 u	> 100.00	9.7920
	R2401372-008 10X	Sr (216.596 nm)	0.4097	0.15	8103.3027
	R2401372-008 10X	Ti (336.122 nm)	0.0007	24.57	-104.0849
	R2401372-008 10X	Tl (190.794 nm)	0.0017	59.85	1.0933
	R2401372-008 10X	V (292.401 nm)	-0.0003 u	81.02	-62.4342
	R2401372-008 10X	Y (360.074 nm)	0.96	0.29	458807.47
	R2401372-008 10X	Y_R (360.074 nm)	0.96	0.29	458904.17
	R2401372-008 10X	Zn (213.857 nm)	0.0004	3.55	-18.3625
2/23/2024 16:51:28	R2401414-001 10X	Ag (328.068 nm)	0.0000 u	> 100.00	-254.2125
	R2401414-001 10X	Al (237.312 nm)	0.0484	1.66	187.7247
	R2401414-001 10X	As (188.980 nm)	0.0020	42.21	-11.4466
	R2401414-001 10X	B (249.772 nm)	0.0069	1.60	271.1577
	R2401414-001 10X	Ba (230.424 nm)	0.0041	1.19	199.0900
	R2401414-001 10X	Be (313.107 nm)	0.0000	51.78	-188.3294
	R2401414-001 10X	Ca (317.933 nm)	58.4027 o	0.10	2273638.7779
	R2401414-001 10X	Cd (214.439 nm)	0.0000 u	> 100.00	-10.1813
	R2401414-001 10X	Co (230.786 nm)	0.0004	22.86	62.2727
	R2401414-001 10X	Cr (267.716 nm)	0.0001 u	> 100.00	-11.1400
	R2401414-001 10X	Cu (327.395 nm)	0.0000 u	> 100.00	33.5977
	R2401414-001 10X	Fe (234.350 nm)	0.2751	0.04	6200.6238
	R2401414-001 10X	K (766.491 nm)	1.2296	2.92	976.7839
	R2401414-001 10X	Mg (279.078 nm)	6.8567	0.11	20778.2227
	R2401414-001 10X	Mn (257.610 nm)	0.0516	0.13	17127.3116
	R2401414-001 10X	Mo (202.032 nm)	0.0005	48.90	-3.5412
	R2401414-001 10X	Na (588.995 nm)	38.6640	0.04	429642.4274
	R2401414-001 10X	Ni (230.299 nm)	0.0001 u	> 100.00	72.7550
	R2401414-001 10X	Pb (220.353 nm)	-0.0009 u	65.30	10.7006

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401414-001 10X	Sb (217.582 nm)	0.0024	15.68	8.6569
	R2401414-001 10X	Se (196.026 nm)	-0.0037 u	> 100.00	-0.7721
	R2401414-001 10X	Sn (189.925 nm)	0.0004	83.66	8.2264
	R2401414-001 10X	Sr (216.596 nm)	0.3901	0.09	7714.6581
	R2401414-001 10X	Ti (336.122 nm)	0.0019	14.93	47.2302
	R2401414-001 10X	Tl (190.794 nm)	0.0010 u	> 100.00	0.3297
	R2401414-001 10X	V (292.401 nm)	-0.0001 u	> 100.00	-51.8610
	R2401414-001 10X	Y (360.074 nm)	0.96	0.31	459010.47
	R2401414-001 10X	Y_R (360.074 nm)	0.96	0.31	459115.00
	R2401414-001 10X	Zn (213.857 nm)	0.0005	9.21	-14.4727
2/23/2024 16:54:42	Continuing Calibration Verification	Ag (328.068 nm)	0.5223	0.17	30536.4918
	Continuing Calibration Verification	Al (237.312 nm)	10.0263	0.13	25374.1065
	Continuing Calibration Verification	As (188.980 nm)	0.9830	0.24	1743.0549
	Continuing Calibration Verification	B (249.772 nm)	2.4276	0.16	82370.5763
	Continuing Calibration Verification	Ba (230.424 nm)	10.2871	0.27	508718.9397
	Continuing Calibration Verification	Be (313.107 nm)	0.2414	0.11	261823.2178
	Continuing Calibration Verification	Ca (317.933 nm)	25.8224	0.21	1006735.5157
	Continuing Calibration Verification	Cd (214.439 nm)	0.5063	0.10	33005.2707
	Continuing Calibration Verification	Co (230.786 nm)	2.5486	0.19	40493.2957
	Continuing Calibration Verification	Cr (267.716 nm)	0.5203	0.10	22510.5944
	Continuing Calibration Verification	Cu (327.395 nm)	1.2451	0.04	51913.4175
	Continuing Calibration Verification	Fe (234.350 nm)	5.0330	0.19	110123.7066
	Continuing Calibration Verification	K (766.491 nm)	24.7420	0.30	24563.5004
	Continuing Calibration Verification	Mg (279.078 nm)	25.3536	0.17	76901.6863
	Continuing Calibration Verification	Mn (257.610 nm)	0.7501	0.15	249339.8428
	Continuing Calibration Verification	Mo (202.032 nm)	2.5356	0.69	20242.0986
	Continuing Calibration Verification	Na (588.995 nm)	25.5524	0.23	280221.9439
	Continuing Calibration Verification	Ni (230.299 nm)	2.1122	0.19	26008.0005
	Continuing Calibration Verification	Pb (220.353 nm)	0.5081	0.33	2812.6268
	Continuing Calibration Verification	Sb (217.582 nm)	4.9490	0.09	11714.9065
	Continuing Calibration Verification	Se (196.026 nm)	0.4822	1.15	364.4287
	Continuing Calibration Verification	Sn (189.925 nm)	5.0574	0.19	15075.2431
	Continuing Calibration Verification	Sr (216.596 nm)	2.5023	0.19	49706.4084
	Continuing Calibration Verification	Ti (336.122 nm)	2.5263	0.10	321678.8461
	Continuing Calibration Verification	Tl (190.794 nm)	1.0068	0.35	1077.1477
	Continuing Calibration Verification	V (292.401 nm)	2.5231	0.18	100164.8809
	Continuing Calibration Verification	Y (360.074 nm)	0.95	0.46	453395.09
	Continuing Calibration Verification	Y_R (360.074 nm)	0.95	0.46	453491.98
	Continuing Calibration Verification	Zn (213.857 nm)	0.9965	0.41	55054.6814
2/23/2024 16:57:56	Continuing Calibration Blank	Ag (328.068 nm)	-0.0001 u	38.30	-256.7627
	Continuing Calibration Blank	Al (237.312 nm)	-0.0007 u	71.48	63.8063
	Continuing Calibration Blank	As (188.980 nm)	0.0036	48.23	-8.4940
	Continuing Calibration Blank	B (249.772 nm)	0.0015	25.62	88.4401
	Continuing Calibration Blank	Ba (230.424 nm)	0.0005	4.57	19.2335
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	19.33	-182.0978
	Continuing Calibration Blank	Ca (317.933 nm)	0.0022	11.73	2696.5507
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	-7.1191
	Continuing Calibration Blank	Co (230.786 nm)	0.0000 u	> 100.00	55.5640
	Continuing Calibration Blank	Cr (267.716 nm)	-0.0001 u	> 100.00	-16.6142
	Continuing Calibration Blank	Cu (327.395 nm)	0.0001 u	> 100.00	36.6847
	Continuing Calibration Blank	Fe (234.350 nm)	0.0036	13.18	269.8692
	Continuing Calibration Blank	K (766.491 nm)	0.1204	19.72	-135.9098
	Continuing Calibration Blank	Mg (279.078 nm)	0.0005 u	> 100.00	-25.0541
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000	21.03	0.3013
	Continuing Calibration Blank	Mo (202.032 nm)	0.0067	6.94	45.8513
	Continuing Calibration Blank	Na (588.995 nm)	0.1667	5.54	-9076.3610
	Continuing Calibration Blank	Ni (230.299 nm)	-0.0001 u	> 100.00	70.0745

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0006 u	36.51	12.7170
	Continuing Calibration Blank	Sb (217.582 nm)	0.0086	27.28	23.2124
	Continuing Calibration Blank	Se (196.026 nm)	-0.0027 u	> 100.00	-0.0057
	Continuing Calibration Blank	Sn (189.925 nm)	0.0011	40.13	10.5471
	Continuing Calibration Blank	Sr (216.596 nm)	0.0000 u	> 100.00	-41.3997
	Continuing Calibration Blank	Ti (336.122 nm)	0.0059	25.46	559.1398
	Continuing Calibration Blank	Tl (190.794 nm)	-0.0003 u	> 100.00	-1.1171
	Continuing Calibration Blank	V (292.401 nm)	0.0000 u	> 100.00	-50.5232
	Continuing Calibration Blank	Y (360.074 nm)	1.00	0.30	475573.19
	Continuing Calibration Blank	Y_R (360.074 nm)	1.00	0.30	475677.57
	Continuing Calibration Blank	Zn (213.857 nm)	0.0001	57.18	-33.0286
2/23/2024 17:01:09	R2401414-002 10X	Ag (328.068 nm)	-0.0002 u	38.23	-260.3378
	R2401414-002 10X	Al (237.312 nm)	0.0005 u	> 100.00	66.6140
	R2401414-002 10X	As (188.980 nm)	0.0024	54.63	-10.6660
	R2401414-002 10X	B (249.772 nm)	0.0008	7.49	62.5644
	R2401414-002 10X	Ba (230.424 nm)	0.0001	58.83	2.0065
	R2401414-002 10X	Be (313.107 nm)	0.0000 u	> 100.00	-193.1136
	R2401414-002 10X	Ca (317.933 nm)	0.0148	1.92	3186.7859
	R2401414-002 10X	Cd (214.439 nm)	0.0000 u	> 100.00	-7.7738
	R2401414-002 10X	Co (230.786 nm)	-0.0001 u	> 100.00	53.5901
	R2401414-002 10X	Cr (267.716 nm)	0.0004	23.44	4.3960
	R2401414-002 10X	Cu (327.395 nm)	-0.0001 u	40.74	28.5450
	R2401414-002 10X	Fe (234.350 nm)	0.0039	10.77	277.2107
	R2401414-002 10X	K (766.491 nm)	0.1231	21.65	-133.2474
	R2401414-002 10X	Mg (279.078 nm)	0.0021	19.64	-20.1976
	R2401414-002 10X	Mn (257.610 nm)	0.0001	30.55	11.7760
	R2401414-002 10X	Mo (202.032 nm)	0.0010	19.77	0.2157
	R2401414-002 10X	Na (588.995 nm)	0.1688	4.94	-9052.2195
	R2401414-002 10X	Ni (230.299 nm)	-0.0003 u	60.86	68.4291
	R2401414-002 10X	Pb (220.353 nm)	-0.0002 u	> 100.00	14.8936
	R2401414-002 10X	Sb (217.582 nm)	0.0051	20.15	15.0822
	R2401414-002 10X	Se (196.026 nm)	-0.0015 u	> 100.00	0.8610
	R2401414-002 10X	Sn (189.925 nm)	0.0005 u	> 100.00	8.5628
	R2401414-002 10X	Sr (216.596 nm)	0.0001 u	98.50	-39.6337
	R2401414-002 10X	Ti (336.122 nm)	0.0018	31.39	31.7198
	R2401414-002 10X	Tl (190.794 nm)	-0.0005 u	18.86	-1.3231
	R2401414-002 10X	V (292.401 nm)	-0.0001 u	> 100.00	-54.1025
	R2401414-002 10X	Y (360.074 nm)	1.00	0.40	478587.82
	R2401414-002 10X	Y_R (360.074 nm)	1.00	0.40	478712.82
	R2401414-002 10X	Zn (213.857 nm)	0.0005	3.07	-11.8920
2/23/2024 17:04:23	R2401414-003 10X	Ag (328.068 nm)	0.0000 u	> 100.00	-251.8854
	R2401414-003 10X	Al (237.312 nm)	0.0066	20.42	82.1963
	R2401414-003 10X	As (188.980 nm)	0.0014	> 100.00	-12.3701
	R2401414-003 10X	B (249.772 nm)	0.0091	0.40	344.5025
	R2401414-003 10X	Ba (230.424 nm)	0.0048	2.62	231.2194
	R2401414-003 10X	Be (313.107 nm)	0.0000	46.84	-182.8807
	R2401414-003 10X	Ca (317.933 nm)	58.0139 o	0.15	2258522.1443
	R2401414-003 10X	Cd (214.439 nm)	0.0000 u	> 100.00	-6.9569
	R2401414-003 10X	Co (230.786 nm)	0.0004	14.02	61.4759
	R2401414-003 10X	Cr (267.716 nm)	0.0001 u	> 100.00	-9.1977
	R2401414-003 10X	Cu (327.395 nm)	-0.0001 u	> 100.00	31.0969
	R2401414-003 10X	Fe (234.350 nm)	0.2316	0.21	5249.4311
	R2401414-003 10X	K (766.491 nm)	1.4067	1.68	1154.4962
	R2401414-003 10X	Mg (279.078 nm)	7.4469	0.16	22568.9597
	R2401414-003 10X	Mn (257.610 nm)	0.0613	0.23	20380.8041
	R2401414-003 10X	Mo (202.032 nm)	0.0014	23.60	4.1021
	R2401414-003 10X	Na (588.995 nm)	38.7701	0.33	430851.3523

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401414-003 10X	Ni (230.299 nm)	0.0007	74.11	79.6354
	R2401414-003 10X	Pb (220.353 nm)	0.0000 u	> 100.00	15.7549
	R2401414-003 10X	Sb (217.582 nm)	0.0027	48.17	9.2426
	R2401414-003 10X	Se (196.026 nm)	-0.0042 u	12.21	-1.1591
	R2401414-003 10X	Sn (189.925 nm)	0.0003 u	> 100.00	8.1718
	R2401414-003 10X	Sr (216.596 nm)	0.3957	0.14	7824.4438
	R2401414-003 10X	Ti (336.122 nm)	0.0016	23.36	2.5713
	R2401414-003 10X	Tl (190.794 nm)	-0.0011 u	42.77	-1.9143
	R2401414-003 10X	V (292.401 nm)	-0.0002 u	> 100.00	-56.3551
	R2401414-003 10X	Y (360.074 nm)	0.96	0.29	459404.76
	R2401414-003 10X	Y_R (360.074 nm)	0.96	0.29	459492.49
	R2401414-003 10X	Zn (213.857 nm)	0.0010	7.89	17.1650
2/23/2024 17:07:37	R2401415-001 10X	Ag (328.068 nm)	-0.0002 u	> 100.00	-263.8468
	R2401415-001 10X	Al (237.312 nm)	0.0469	2.67	183.9171
	R2401415-001 10X	As (188.980 nm)	0.0002 u	> 100.00	-14.5225
	R2401415-001 10X	B (249.772 nm)	0.0042	3.51	177.8224
	R2401415-001 10X	Ba (230.424 nm)	0.0069	1.82	336.2812
	R2401415-001 10X	Be (313.107 nm)	0.0000	41.57	-187.6104
	R2401415-001 10X	Ca (317.933 nm)	17.0867	0.04	667041.9477
	R2401415-001 10X	Cd (214.439 nm)	0.0000 u	> 100.00	-7.5639
	R2401415-001 10X	Co (230.786 nm)	0.0000 u	> 100.00	55.9316
	R2401415-001 10X	Cr (267.716 nm)	0.0001 u	> 100.00	-10.7395
	R2401415-001 10X	Cu (327.395 nm)	0.0002	53.50	40.6996
	R2401415-001 10X	Fe (234.350 nm)	0.0652	0.32	1615.7541
	R2401415-001 10X	K (766.491 nm)	0.4428	4.94	187.5322
	R2401415-001 10X	Mg (279.078 nm)	2.7049	0.09	8180.8128
	R2401415-001 10X	Mn (257.610 nm)	0.0055	0.36	1825.5553
	R2401415-001 10X	Mo (202.032 nm)	0.0005	68.54	-3.6701
	R2401415-001 10X	Na (588.995 nm)	8.0115	0.11	80323.3315
	R2401415-001 10X	Ni (230.299 nm)	0.0002	67.69	74.6368
	R2401415-001 10X	Pb (220.353 nm)	-0.0002 u	> 100.00	14.8924
	R2401415-001 10X	Sb (217.582 nm)	0.0024	67.63	8.5724
	R2401415-001 10X	Se (196.026 nm)	-0.0009 u	> 100.00	1.3146
	R2401415-001 10X	Sn (189.925 nm)	0.0006	64.72	8.8605
	R2401415-001 10X	Sr (216.596 nm)	0.2138	0.21	4209.3844
	R2401415-001 10X	Ti (336.122 nm)	0.0017	17.95	23.9193
	R2401415-001 10X	Tl (190.794 nm)	0.0000 u	> 100.00	-0.7696
	R2401415-001 10X	V (292.401 nm)	-0.0001 u	> 100.00	-52.2782
	R2401415-001 10X	Y (360.074 nm)	0.99	0.40	472250.74
	R2401415-001 10X	Y_R (360.074 nm)	0.99	0.40	472352.64
	R2401415-001 10X	Zn (213.857 nm)	0.0005	3.81	-10.9871
2/23/2024 17:10:51	R2401415-002 10X	Ag (328.068 nm)	-0.0001 u	39.71	-258.0537
	R2401415-002 10X	Al (237.312 nm)	0.0170	6.61	108.4496
	R2401415-002 10X	As (188.980 nm)	0.0009 u	> 100.00	-13.3624
	R2401415-002 10X	B (249.772 nm)	0.0037	2.56	161.5835
	R2401415-002 10X	Ba (230.424 nm)	0.0068	0.86	332.4241
	R2401415-002 10X	Be (313.107 nm)	0.0000 u	> 100.00	-199.3291
	R2401415-002 10X	Ca (317.933 nm)	17.0700	1.06	666390.7045
	R2401415-002 10X	Cd (214.439 nm)	0.0000	63.61	-4.2379
	R2401415-002 10X	Co (230.786 nm)	0.0002 u	> 100.00	58.2706
	R2401415-002 10X	Cr (267.716 nm)	-0.0001 u	83.96	-18.8102
	R2401415-002 10X	Cu (327.395 nm)	0.0001	> 100.00	38.6560
	R2401415-002 10X	Fe (234.350 nm)	0.0351	0.41	959.1648
	R2401415-002 10X	K (766.491 nm)	0.4062	3.36	150.7681
	R2401415-002 10X	Mg (279.078 nm)	2.6754	1.16	8091.3576
	R2401415-002 10X	Mn (257.610 nm)	0.0046	0.73	1504.7979
	R2401415-002 10X	Mo (202.032 nm)	0.0006	51.52	-2.7308

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401415-002 10X	Na (588.995 nm)	7.9876	1.03	80051.5068
	R2401415-002 10X	Ni (230.299 nm)	0.0005	37.69	77.1833
	R2401415-002 10X	Pb (220.353 nm)	-0.0002 u	> 100.00	14.6243
	R2401415-002 10X	Sb (217.582 nm)	0.0028	75.16	9.5599
	R2401415-002 10X	Se (196.026 nm)	-0.0029 u	> 100.00	-0.1481
	R2401415-002 10X	Sn (189.925 nm)	0.0003 u	> 100.00	8.1449
	R2401415-002 10X	Sr (216.596 nm)	0.2127	0.94	4186.3421
	R2401415-002 10X	Ti (336.122 nm)	0.0009	16.96	-76.0223
	R2401415-002 10X	Tl (190.794 nm)	-0.0015 u	43.93	-2.3201
	R2401415-002 10X	V (292.401 nm)	0.0000 u	> 100.00	-51.4695
	R2401415-002 10X	Y (360.074 nm)	0.99	0.31	472701.86
	R2401415-002 10X	Y_R (360.074 nm)	0.99	0.31	472861.25
	R2401415-002 10X	Zn (213.857 nm)	0.0005	25.26	-11.0196
2/23/2024 17:14:05	Continuing Calibration Verification	Ag (328.068 nm)	0.5206	0.09	30437.3383
	Continuing Calibration Verification	Al (237.312 nm)	9.9743	0.10	25242.7636
	Continuing Calibration Verification	As (188.980 nm)	0.9813	0.29	1739.9779
	Continuing Calibration Verification	B (249.772 nm)	2.4269	0.06	82348.6082
	Continuing Calibration Verification	Ba (230.424 nm)	10.2586	0.13	507312.3239
	Continuing Calibration Verification	Be (313.107 nm)	0.2418	0.11	262321.1913
	Continuing Calibration Verification	Ca (317.933 nm)	25.7434	0.10	1003661.6553
	Continuing Calibration Verification	Cd (214.439 nm)	0.5045	0.08	32883.2129
	Continuing Calibration Verification	Co (230.786 nm)	2.5340	0.29	40260.8443
	Continuing Calibration Verification	Cr (267.716 nm)	0.5176	0.05	22392.9406
	Continuing Calibration Verification	Cu (327.395 nm)	1.2434	0.13	51838.9810
	Continuing Calibration Verification	Fe (234.350 nm)	5.0103	0.12	109626.9057
	Continuing Calibration Verification	K (766.491 nm)	24.4925	0.33	24313.2253
	Continuing Calibration Verification	Mg (279.078 nm)	25.2635	0.07	76628.3747
	Continuing Calibration Verification	Mn (257.610 nm)	0.7477	0.10	248547.2788
	Continuing Calibration Verification	Mo (202.032 nm)	2.5270	0.74	20173.2847
	Continuing Calibration Verification	Na (588.995 nm)	25.4342	0.35	278874.7158
	Continuing Calibration Verification	Ni (230.299 nm)	2.1029	0.09	25893.2967
	Continuing Calibration Verification	Pb (220.353 nm)	0.5063	0.27	2802.6476
	Continuing Calibration Verification	Sb (217.582 nm)	4.9312	0.23	11672.7891
	Continuing Calibration Verification	Se (196.026 nm)	0.4858	1.14	367.1242
	Continuing Calibration Verification	Sn (189.925 nm)	5.0337	0.09	15004.6503
	Continuing Calibration Verification	Sr (216.596 nm)	2.4933	0.20	49528.3799
	Continuing Calibration Verification	Ti (336.122 nm)	2.5247	0.07	321473.0209
	Continuing Calibration Verification	Tl (190.794 nm)	1.0073	0.49	1077.7409
	Continuing Calibration Verification	V (292.401 nm)	2.5144	0.04	99821.0733
	Continuing Calibration Verification	Y (360.074 nm)	0.95	0.46	454159.86
	Continuing Calibration Verification	Y_R (360.074 nm)	0.95	0.46	454349.38
	Continuing Calibration Verification	Zn (213.857 nm)	0.9943	0.08	54936.8997
2/23/2024 17:17:18	Continuing Calibration Blank	Ag (328.068 nm)	-0.0001 u	> 100.00	-258.0109
	Continuing Calibration Blank	Al (237.312 nm)	-0.0016 u	96.65	61.3501
	Continuing Calibration Blank	As (188.980 nm)	0.0019	9.53	-11.5515
	Continuing Calibration Blank	B (249.772 nm)	0.0014	19.55	83.3430
	Continuing Calibration Blank	Ba (230.424 nm)	0.0005	12.62	20.0500
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	6.04	-177.8477
	Continuing Calibration Blank	Ca (317.933 nm)	0.0016	5.89	2676.0665
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	-7.2839
	Continuing Calibration Blank	Co (230.786 nm)	0.0001 u	> 100.00	56.9282
	Continuing Calibration Blank	Cr (267.716 nm)	-0.0001 u	> 100.00	-19.2998
	Continuing Calibration Blank	Cu (327.395 nm)	0.0000 u	> 100.00	33.0666
	Continuing Calibration Blank	Fe (234.350 nm)	0.0033	20.49	263.8168
	Continuing Calibration Blank	K (766.491 nm)	0.0977	6.63	-158.7012
	Continuing Calibration Blank	Mg (279.078 nm)	0.0005 u	> 100.00	-24.8400
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000	36.30	5.4764

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Mo (202.032 nm)	0.0072	14.77	50.1434
	Continuing Calibration Blank	Na (588.995 nm)	0.1203	3.66	-9605.9588
	Continuing Calibration Blank	Ni (230.299 nm)	0.0000 u	> 100.00	71.6792
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0001 u	> 100.00	15.3379
	Continuing Calibration Blank	Sb (217.582 nm)	0.0087	5.11	23.5446
	Continuing Calibration Blank	Se (196.026 nm)	0.0006 u	> 100.00	2.4793
	Continuing Calibration Blank	Sn (189.925 nm)	0.0016	51.04	11.8949
	Continuing Calibration Blank	Sr (216.596 nm)	0.0000 u	> 100.00	-42.7757
	Continuing Calibration Blank	Ti (336.122 nm)	0.0061	26.70	586.4326
	Continuing Calibration Blank	Tl (190.794 nm)	0.0003 u	> 100.00	-0.4115
	Continuing Calibration Blank	V (292.401 nm)	-0.0001 u	> 100.00	-52.6001
	Continuing Calibration Blank	Y (360.074 nm)	1.00	0.32	477614.36
	Continuing Calibration Blank	Y_R (360.074 nm)	1.00	0.32	477774.01
	Continuing Calibration Blank	Zn (213.857 nm)	0.0001	41.71	-36.3184
2/23/2024 17:20:32	Contract Required Detection Limit	Ag (328.068 nm)	0.0099	0.99	330.4298
	Contract Required Detection Limit	Al (237.312 nm)	0.1924	0.42	551.1549
	Contract Required Detection Limit	As (188.980 nm)	0.0220	3.39	24.3362
	Contract Required Detection Limit	B (249.772 nm)	0.1912	0.17	6520.8287
	Contract Required Detection Limit	Ba (230.424 nm)	0.2058	0.23	10170.9262
	Contract Required Detection Limit	Be (313.107 nm)	0.0048	0.37	5062.6738
	Contract Required Detection Limit	Ca (317.933 nm)	1.0173	0.13	42170.9831
	Contract Required Detection Limit	Cd (214.439 nm)	0.0102	0.64	655.0703
	Contract Required Detection Limit	Co (230.786 nm)	0.0508	0.54	861.5394
	Contract Required Detection Limit	Cr (267.716 nm)	0.0102	1.28	426.4908
	Contract Required Detection Limit	Cu (327.395 nm)	0.0245	0.66	1055.8142
	Contract Required Detection Limit	Fe (234.350 nm)	0.1080	0.44	2549.8731
	Contract Required Detection Limit	K (766.491 nm)	0.9327	0.76	678.9365
	Contract Required Detection Limit	Mg (279.078 nm)	0.9824	0.04	2954.2757
	Contract Required Detection Limit	Mn (257.610 nm)	0.0153	0.12	5067.9181
	Contract Required Detection Limit	Mo (202.032 nm)	0.0252	3.55	193.5609
	Contract Required Detection Limit	Na (588.995 nm)	1.0555	0.18	1052.4279
	Contract Required Detection Limit	Ni (230.299 nm)	0.0398	1.98	560.7913
	Contract Required Detection Limit	Pb (220.353 nm)	0.0095	14.48	68.1481
	Contract Required Detection Limit	Sb (217.582 nm)	0.0635	0.74	153.3228
	Contract Required Detection Limit	Se (196.026 nm)	0.0075 R 75%	44.98	7.6862 R
	Contract Required Detection Limit	Sn (189.925 nm)	0.5005	0.38	1498.1846
	Contract Required Detection Limit	Sr (216.596 nm)	0.1005	0.33	1955.3528
	Contract Required Detection Limit	Ti (336.122 nm)	0.0510	1.48	6303.9051
	Contract Required Detection Limit	Tl (190.794 nm)	0.0196	5.02	20.1974
	Contract Required Detection Limit	V (292.401 nm)	0.0490	0.11	1897.8775
	Contract Required Detection Limit	Y (360.074 nm)	0.99	0.34	472889.07
	Contract Required Detection Limit	Y_R (360.074 nm)	0.99	0.34	473031.83
	Contract Required Detection Limit	Zn (213.857 nm)	0.0192	0.50	1019.7476
2/23/2024 17:23:46	Interference Check Solution A	Ag (328.068 nm)	-0.0002 u	80.55	-261.7483
	Interference Check Solution A	Al (237.312 nm)	254.6048 o	0.12	642745.6414
	Interference Check Solution A	As (188.980 nm)	-0.0054 Ku +/-0.01	6.91	-24.5435 K
	Interference Check Solution A	B (249.772 nm)	0.1035	0.05	3548.4097
	Interference Check Solution A	Ba (230.424 nm)	0.0009	6.31	41.2184
	Interference Check Solution A	Be (313.107 nm)	0.0000 u	> 100.00	-209.3025
	Interference Check Solution A	Ca (317.933 nm)	241.5577 o	0.17	9395746.4306
	Interference Check Solution A	Cd (214.439 nm)	0.0008	1.28	45.1917
	Interference Check Solution A	Co (230.786 nm)	0.0020	4.84	87.3630
	Interference Check Solution A	Cr (267.716 nm)	0.0008	11.63	22.6201
	Interference Check Solution A	Cu (327.395 nm)	0.0010	26.41	76.4817
	Interference Check Solution A	Fe (234.350 nm)	94.4394 o	0.24	2062947.0100
	Interference Check Solution A	K (766.491 nm)	0.0647	49.87	-191.7528
	Interference Check Solution A	Mg (279.078 nm)	264.1882 o	0.11	801577.8060

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Interference Check Solution A	Mn (257.610 nm)	0.0014	2.20	452.2122
	Interference Check Solution A	Mo (202.032 nm)	0.0000 u	> 100.00	-7.5114
	Interference Check Solution A	Na (588.995 nm)	0.0413	3.74	-10505.9500
	Interference Check Solution A	Ni (230.299 nm)	0.0020	14.23	96.0657
	Interference Check Solution A	Pb (220.353 nm)	0.0024	74.97	28.8944
	Interference Check Solution A	Sb (217.582 nm)	-0.0134 Ku +/-0.07	18.73	-28.8640 K
	Interference Check Solution A	Se (196.026 nm)	-0.0008 u	70.76	1.4458
	Interference Check Solution A	Sn (189.925 nm)	0.0036	20.68	17.7498
	Interference Check Solution A	Sr (216.596 nm)	0.0097	4.65	151.0591
	Interference Check Solution A	Ti (336.122 nm)	0.0030	17.71	182.5959
	Interference Check Solution A	Tl (190.794 nm)	-0.0011 u	> 100.00	-1.8987
	Interference Check Solution A	V (292.401 nm)	0.0017	2.67	19.1928
	Interference Check Solution A	Y (360.074 nm)	0.88	0.43	417373.41
	Interference Check Solution A	Y_R (360.074 nm)	0.88	0.43	417481.05
	Interference Check Solution A	Zn (213.857 nm)	0.0129 K +/-0.02	0.86	671.2314 K
2/23/2024 17:27:00	Interference Check Solution AB	Ag (328.068 nm)	0.2078	0.06	12000.3520
	Interference Check Solution AB	Al (237.312 nm)	257.4185 o	0.10	649848.1024
	Interference Check Solution AB	As (188.980 nm)	0.0941	1.64	153.3847
	Interference Check Solution AB	B (249.772 nm)	0.1186	0.34	4060.1098
	Interference Check Solution AB	Ba (230.424 nm)	0.5284	0.23	26126.5320
	Interference Check Solution AB	Be (313.107 nm)	0.4845	0.02	525736.0115
	Interference Check Solution AB	Ca (317.933 nm)	243.7763 o	0.14	9482017.9491
	Interference Check Solution AB	Cd (214.439 nm)	0.9841	0.12	64157.1264
	Interference Check Solution AB	Co (230.786 nm)	0.4898	0.09	7826.7474
	Interference Check Solution AB	Cr (267.716 nm)	0.5128	0.13	22187.7607
	Interference Check Solution AB	Cu (327.395 nm)	0.5374	0.05	22426.8393
	Interference Check Solution AB	Fe (234.350 nm)	95.4351 o	0.13	2084696.2737
	Interference Check Solution AB	K (766.491 nm)	0.0044 u	> 100.00	-252.2953
	Interference Check Solution AB	Mg (279.078 nm)	267.1164 o	0.15	810462.6422
	Interference Check Solution AB	Mn (257.610 nm)	0.4944	0.12	164346.0723
	Interference Check Solution AB	Mo (202.032 nm)	-0.0004 u	52.63	-10.3409
	Interference Check Solution AB	Na (588.995 nm)	0.0499	14.44	-10407.1977
	Interference Check Solution AB	Ni (230.299 nm)	0.9984	0.10	12331.4169
	Interference Check Solution AB	Pb (220.353 nm)	0.0522	2.92	303.2124
	Interference Check Solution AB	Sb (217.582 nm)	0.6072	0.87	1440.0275
	Interference Check Solution AB	Se (196.026 nm)	0.0456	11.25	36.2892
	Interference Check Solution AB	Sn (189.925 nm)	0.0019	32.84	12.9009
	Interference Check Solution AB	Sr (216.596 nm)	0.0097	3.76	151.1970
	Interference Check Solution AB	Ti (336.122 nm)	0.0026	15.61	129.2573
	Interference Check Solution AB	Tl (190.794 nm)	0.1002	1.70	106.5008
	Interference Check Solution AB	V (292.401 nm)	0.5108	0.14	20239.1442
	Interference Check Solution AB	Y (360.074 nm)	0.88	0.35	417909.06
	Interference Check Solution AB	Y_R (360.074 nm)	0.88	0.35	417990.64
	Interference Check Solution AB	Zn (213.857 nm)	1.0280	0.06	56796.8773
2/23/2024 17:30:14	Continuing Calibration Verification	Ag (328.068 nm)	0.5215	0.19	30488.7216
	Continuing Calibration Verification	Al (237.312 nm)	9.9846	0.12	25268.9208
	Continuing Calibration Verification	As (188.980 nm)	0.9796	0.17	1737.0252
	Continuing Calibration Verification	B (249.772 nm)	2.4181	0.09	82050.3745
	Continuing Calibration Verification	Ba (230.424 nm)	10.2495	0.20	506861.6394
	Continuing Calibration Verification	Be (313.107 nm)	0.2414	0.13	261907.4036
	Continuing Calibration Verification	Ca (317.933 nm)	25.8283	0.15	1006961.3902
	Continuing Calibration Verification	Cd (214.439 nm)	0.5046	0.17	32894.8031
	Continuing Calibration Verification	Co (230.786 nm)	2.5370	0.21	40308.5817
	Continuing Calibration Verification	Cr (267.716 nm)	0.5190	0.20	22457.0632
	Continuing Calibration Verification	Cu (327.395 nm)	1.2455	0.32	51928.7364
	Continuing Calibration Verification	Fe (234.350 nm)	5.0519	0.12	110536.5309
	Continuing Calibration Verification	K (766.491 nm)	24.4926	0.07	24313.3193

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	Mg (279.078 nm)	25.3886	0.16	77008.0969
	Continuing Calibration Verification	Mn (257.610 nm)	0.7470	0.14	248292.7385
	Continuing Calibration Verification	Mo (202.032 nm)	2.5184	0.66	20105.1721
	Continuing Calibration Verification	Na (588.995 nm)	25.3926	0.19	278400.8944
	Continuing Calibration Verification	Ni (230.299 nm)	2.0990	0.01	25845.7533
	Continuing Calibration Verification	Pb (220.353 nm)	0.5050	0.15	2795.9289
	Continuing Calibration Verification	Sb (217.582 nm)	4.9161	0.15	11637.0242
	Continuing Calibration Verification	Se (196.026 nm)	0.4792	0.77	362.1615
	Continuing Calibration Verification	Sn (189.925 nm)	5.0349	0.14	15008.3188
	Continuing Calibration Verification	Sr (216.596 nm)	2.4947	0.22	49555.4387
	Continuing Calibration Verification	Ti (336.122 nm)	2.5216	0.09	321080.0130
	Continuing Calibration Verification	Tl (190.794 nm)	1.0028	0.33	1072.8580
	Continuing Calibration Verification	V (292.401 nm)	2.5190	0.17	100000.1244
	Continuing Calibration Verification	Y (360.074 nm)	0.96	0.31	456037.52
	Continuing Calibration Verification	Y_R (360.074 nm)	0.96	0.31	456147.46
	Continuing Calibration Verification	Zn (213.857 nm)	0.9923	0.16	54824.2823
2/23/2024 17:33:28	Continuing Calibration Blank	Ag (328.068 nm)	-0.0002 u	47.55	-260.8678
	Continuing Calibration Blank	Al (237.312 nm)	-0.0002 u	> 100.00	64.8440
	Continuing Calibration Blank	As (188.980 nm)	0.0029	46.47	-9.7323
	Continuing Calibration Blank	B (249.772 nm)	0.0012	29.67	76.4018
	Continuing Calibration Blank	Ba (230.424 nm)	0.0005	5.07	20.8610
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	35.82	-169.1862
	Continuing Calibration Blank	Ca (317.933 nm)	0.0026	6.09	2712.8732
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	-5.7424
	Continuing Calibration Blank	Co (230.786 nm)	-0.0001 u	> 100.00	53.7091
	Continuing Calibration Blank	Cr (267.716 nm)	-0.0001 u	39.70	-17.1856
	Continuing Calibration Blank	Cu (327.395 nm)	0.0001	> 100.00	39.0828
	Continuing Calibration Blank	Fe (234.350 nm)	0.0048	17.68	295.8348
	Continuing Calibration Blank	K (766.491 nm)	0.0909	61.89	-165.4577
	Continuing Calibration Blank	Mg (279.078 nm)	0.0017	94.41	-21.2232
	Continuing Calibration Blank	Mn (257.610 nm)	0.0001	32.54	6.2462
	Continuing Calibration Blank	Mo (202.032 nm)	0.0070	3.24	48.7494
	Continuing Calibration Blank	Na (588.995 nm)	0.0907	3.06	-9943.0175
	Continuing Calibration Blank	Ni (230.299 nm)	-0.0003 u	> 100.00	68.5467
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0012 u	15.82	9.1831
	Continuing Calibration Blank	Sb (217.582 nm)	0.0092	7.61	24.7816
	Continuing Calibration Blank	Se (196.026 nm)	-0.0004 u	> 100.00	1.6919
	Continuing Calibration Blank	Sn (189.925 nm)	0.0016	24.53	11.9184
	Continuing Calibration Blank	Sr (216.596 nm)	0.0000 u	> 100.00	-42.3535
	Continuing Calibration Blank	Ti (336.122 nm)	0.0060	24.80	565.7281
	Continuing Calibration Blank	Tl (190.794 nm)	0.0002 u	> 100.00	-0.4905
	Continuing Calibration Blank	V (292.401 nm)	-0.0001 u	85.22	-55.1537
	Continuing Calibration Blank	Y (360.074 nm)	1.00	0.22	478065.25
	Continuing Calibration Blank	Y_R (360.074 nm)	1.00	0.22	478176.58
	Continuing Calibration Blank	Zn (213.857 nm)	0.0001	69.83	-32.8113
2/23/2024 17:36:41	PBS-434431	Ag (328.068 nm)	0.0001 u	> 100.00	-242.7857
	PBS-434431	Al (237.312 nm)	-0.0016 u	> 100.00	61.4883
	PBS-434431	As (188.980 nm)	0.0031	52.24	-9.4357
	PBS-434431	B (249.772 nm)	0.0014	5.92	85.2819
	PBS-434431	Ba (230.424 nm)	0.0001	92.76	-2.3817
	PBS-434431	Be (313.107 nm)	0.0000	55.18	-185.0358
	PBS-434431	Ca (317.933 nm)	0.0113	1.53	3052.7977
	PBS-434431	Cd (214.439 nm)	0.0001	33.36	-3.7265
	PBS-434431	Co (230.786 nm)	-0.0002 u	> 100.00	51.8857
	PBS-434431	Cr (267.716 nm)	0.0006	27.90	10.4185
	PBS-434431	Cu (327.395 nm)	0.0001 u	> 100.00	39.4089
	PBS-434431	Fe (234.350 nm)	0.0397	1.22	1058.7286

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	PBS-434431	K (766.491 nm)	0.0421 u	> 100.00	-214.4096
	PBS-434431	Mg (279.078 nm)	0.0029	63.85	-17.7616
	PBS-434431	Mn (257.610 nm)	0.0003	7.37	93.4831
	PBS-434431	Mo (202.032 nm)	0.0017	15.08	6.2245
	PBS-434431	Na (588.995 nm)	0.0805	14.14	-10059.5644
	PBS-434431	Ni (230.299 nm)	0.0242	2.29	368.2740
	PBS-434431	Pb (220.353 nm)	-0.0002 u	> 100.00	14.7646
	PBS-434431	Sb (217.582 nm)	0.0055	25.38	16.0426
	PBS-434431	Se (196.026 nm)	0.0012 u	> 100.00	2.9431
	PBS-434431	Sn (189.925 nm)	0.0137	4.02	48.0680
	PBS-434431	Sr (216.596 nm)	0.0000 u	> 100.00	-41.1493
	PBS-434431	Ti (336.122 nm)	0.0022	42.50	86.1966
	PBS-434431	Tl (190.794 nm)	-0.0015 u	52.31	-2.3233
	PBS-434431	V (292.401 nm)	0.0000 u	> 100.00	-47.9349
	PBS-434431	Y (360.074 nm)	1.00	0.61	476497.15
	PBS-434431	Y_R (360.074 nm)	1.00	0.61	476611.09
	PBS-434431	Zn (213.857 nm)	0.0005	10.21	-12.7209
2/23/2024 17:39:55	LCSS-434431	Ag (328.068 nm)	0.0509	0.36	2746.1778
	LCSS-434431	Al (237.312 nm)	1.9116	0.16	4890.6731
	LCSS-434431	As (188.980 nm)	0.0400	6.53	56.5287
	LCSS-434431	B (249.772 nm)	0.9434	0.12	32034.3488
	LCSS-434431	Ba (230.424 nm)	2.0583	0.35	101785.5725
	LCSS-434431	Be (313.107 nm)	0.0476	0.11	51507.7135
	LCSS-434431	Ca (317.933 nm)	2.0392	0.11	81909.6399
	LCSS-434431	Cd (214.439 nm)	0.0511	0.06	3322.7800
	LCSS-434431	Co (230.786 nm)	0.5161	0.06	8244.5484
	LCSS-434431	Cr (267.716 nm)	0.2060	0.27	8902.8119
	LCSS-434431	Cu (327.395 nm)	0.2549	0.09	10652.4427
	LCSS-434431	Fe (234.350 nm)	1.0118	0.12	22291.2875
	LCSS-434431	K (766.491 nm)	19.0455	0.12	18849.0229
	LCSS-434431	Mg (279.078 nm)	1.9559	0.11	5908.2094
	LCSS-434431	Mn (257.610 nm)	0.4965	0.10	165031.3484
	LCSS-434431	Mo (202.032 nm)	0.4869	0.96	3881.2847
	LCSS-434431	Na (588.995 nm)	19.8058	0.08	214732.3510
	LCSS-434431	Ni (230.299 nm)	0.5276	0.11	6550.2192
	LCSS-434431	Pb (220.353 nm)	0.5057	0.52	2799.5292
	LCSS-434431	Sb (217.582 nm)	0.4841	0.94	1148.6687
	LCSS-434431	Se (196.026 nm)	0.9163	0.66	690.6837
	LCSS-434431	Sn (189.925 nm)	4.9829	0.09	14853.2772
	LCSS-434431	Sr (216.596 nm)	2.0026	0.37	39771.9506
	LCSS-434431	Ti (336.122 nm)	0.4992	0.08	63400.9209
	LCSS-434431	Tl (190.794 nm)	1.9855	0.03	2124.9895
	LCSS-434431	V (292.401 nm)	0.5010	0.15	19850.3461
	LCSS-434431	Y (360.074 nm)	0.98	0.51	466706.31
	LCSS-434431	Y_R (360.074 nm)	0.98	0.51	466786.89
	LCSS-434431	Zn (213.857 nm)	0.4966	0.13	27416.8162
2/23/2024 17:43:08	R2401379-001	Ag (328.068 nm)	-0.0006 u	5.80	-284.7091
	R2401379-001	Al (237.312 nm)	68.2790 o	0.57	172417.1091
	R2401379-001	As (188.980 nm)	0.0470	3.22	69.0419
	R2401379-001	B (249.772 nm)	0.1703	0.53	5812.7817
	R2401379-001	Ba (230.424 nm)	0.4311	0.19	21314.8313
	R2401379-001	Be (313.107 nm)	0.0080	0.07	8495.0770
	R2401379-001	Ca (317.933 nm)	162.4828 o	0.19	6320864.2898
	R2401379-001	Cd (214.439 nm)	0.0021	2.67	132.1130
	R2401379-001	Co (230.786 nm)	0.0409	1.05	704.9513
	R2401379-001	Cr (267.716 nm)	0.0968	0.11	4176.1811
	R2401379-001	Cu (327.395 nm)	0.0848	0.37	3566.0341

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401379-001	Fe (234.350 nm)	102.1921 o	0.12	2232282.9966
	R2401379-001	K (766.491 nm)	12.6811	0.75	12464.4729
	R2401379-001	Mg (279.078 nm)	30.9751	0.16	93958.5838
	R2401379-001	Mn (257.610 nm)	1.4020	0.05	466059.6794
	R2401379-001	Mo (202.032 nm)	0.0140	5.36	104.6757
	R2401379-001	Na (588.995 nm)	3.2898	0.16	26514.0679
	R2401379-001	Ni (230.299 nm)	0.0878	0.07	1150.1178
	R2401379-001	Pb (220.353 nm)	0.1195	0.97	673.5131
	R2401379-001	Sb (217.582 nm)	-0.0031 u	33.08	-4.3848
	R2401379-001	Se (196.026 nm)	-0.0021 u	> 100.00	0.4280
	R2401379-001	Sn (189.925 nm)	0.0196	7.37	65.4042
	R2401379-001	Sr (216.596 nm)	0.4967	0.21	9833.3662
	R2401379-001	Ti (336.122 nm)	0.5773	2.00	73354.5184
	R2401379-001	Tl (190.794 nm)	0.0029	42.41	2.3363
	R2401379-001	V (292.401 nm)	0.0896	0.17	3509.7795
	R2401379-001	Y (360.074 nm)	0.99	0.42	472693.95
	R2401379-001	Y_R (360.074 nm)	0.99	0.42	472732.77
	R2401379-001	Zn (213.857 nm)	0.3252	0.07	17939.7991
2/23/2024 17:46:22	R2401435-001	Ag (328.068 nm)	0.0101	1.16	346.6347
	R2401435-001	Al (237.312 nm)	171.7287 o	0.01	433547.4624
	R2401435-001	As (188.980 nm)	0.0330	8.84	44.0370
	R2401435-001	B (249.772 nm)	0.5579	0.08	18958.8197
	R2401435-001	Ba (230.424 nm)	1.4530	0.24	71847.1475
	R2401435-001	Be (313.107 nm)	0.0021	0.39	2040.4485
	R2401435-001	Ca (317.933 nm)	364.7048 o	0.10	14184404.0652
	R2401435-001	Cd (214.439 nm)	0.0188	0.60	1215.9245
	R2401435-001	Co (230.786 nm)	0.1019	0.17	1672.4254
	R2401435-001	Cr (267.716 nm)	0.3317	0.05	14347.4166
	R2401435-001	Cu (327.395 nm)	2.7479 o	0.34	114527.5342
	R2401435-001	Fe (234.350 nm)	82.2723 o	0.11	1797192.6484
	R2401435-001	K (766.491 nm)	41.0852	0.10	40958.3801
	R2401435-001	Mg (279.078 nm)	45.9062	0.08	139262.7428
	R2401435-001	Mn (257.610 nm)	2.8550 o	0.07	949047.1092
	R2401435-001	Mo (202.032 nm)	0.0443	0.64	346.5909
	R2401435-001	Na (588.995 nm)	71.6258 o	0.30	805278.9427
	R2401435-001	Ni (230.299 nm)	0.2873	0.22	3599.5799
	R2401435-001	Pb (220.353 nm)	0.9007	0.15	4973.7361
	R2401435-001	Sb (217.582 nm)	0.0480	12.30	116.6299
	R2401435-001	Se (196.026 nm)	-0.0055 u	32.55	-2.1199
	R2401435-001	Sn (189.925 nm)	0.3434	0.40	1030.1304
	R2401435-001	Sr (216.596 nm)	0.6878	0.08	13633.0702
	R2401435-001	Ti (336.122 nm)	0.4544	0.20	57700.8371
	R2401435-001	Tl (190.794 nm)	0.0007	> 100.00	0.0337
	R2401435-001	V (292.401 nm)	0.0617	0.33	2402.4887
	R2401435-001	Y (360.074 nm)	0.92	0.52	436711.40
	R2401435-001	Y_R (360.074 nm)	0.92	0.52	436705.65
	R2401435-001	Zn (213.857 nm)	5.2675 o	0.22	291198.4593
2/23/2024 17:49:36	R2401439-001	Ag (328.068 nm)	0.0001 u	> 100.00	-247.4387
	R2401439-001	Al (237.312 nm)	115.0378 o	0.49	290446.8267
	R2401439-001	As (188.980 nm)	0.1146	1.53	190.0209
	R2401439-001	B (249.772 nm)	0.3738	0.07	12713.1223
	R2401439-001	Ba (230.424 nm)	0.8144	0.21	40269.6860
	R2401439-001	Be (313.107 nm)	0.0055	0.11	5735.5572
	R2401439-001	Ca (317.933 nm)	430.1374 o	0.10	16728791.4853
	R2401439-001	Cd (214.439 nm)	0.0051	2.32	323.4047
	R2401439-001	Co (230.786 nm)	0.1076	0.11	1762.6277
	R2401439-001	Cr (267.716 nm)	0.8289	0.05	35871.4971

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401439-001	Cu (327.395 nm)	0.5524	0.07	23051.5759
	R2401439-001	Fe (234.350 nm)	263.2551 o	0.14	5750239.1048
	R2401439-001	K (766.491 nm)	14.2425	1.57	14030.8041
	R2401439-001	Mg (279.078 nm)	78.1222 o	0.03	237013.2182
	R2401439-001	Mn (257.610 nm)	2.6460 o	0.03	879584.2481
	R2401439-001	Mo (202.032 nm)	0.0310	4.53	240.2436
	R2401439-001	Na (588.995 nm)	5.4206	0.68	50797.5138
	R2401439-001	Ni (230.299 nm)	0.7652	0.17	9467.8841
	R2401439-001	Pb (220.353 nm)	2.1244 o	0.18	11709.9355
	R2401439-001	Sb (217.582 nm)	-0.0045 u	52.95	-7.6683
	R2401439-001	Se (196.026 nm)	-0.0171 u	25.97	-10.8556
	R2401439-001	Sn (189.925 nm)	0.0333	0.97	106.4189
	R2401439-001	Sr (216.596 nm)	0.4694	0.16	9291.1357
	R2401439-001	Ti (336.122 nm)	1.8199	1.59	231682.6313
	R2401439-001	Tl (190.794 nm)	0.0022	24.04	1.6065
	R2401439-001	V (292.401 nm)	0.2766	0.26	10936.2560
	R2401439-001	Y (360.074 nm)	0.91	0.40	436199.99
	R2401439-001	Y_R (360.074 nm)	0.91	0.40	436187.30
	R2401439-001	Zn (213.857 nm)	0.8502	0.18	46966.4543
2/23/2024 17:52:50	R2401442-002	Ag (328.068 nm)	0.0003	76.34	-236.2187
	R2401442-002	Al (237.312 nm)	96.2355 o	0.38	242985.5512
	R2401442-002	As (188.980 nm)	0.1028	1.98	168.8678
	R2401442-002	B (249.772 nm)	0.2513	0.16	8558.3847
	R2401442-002	Ba (230.424 nm)	2.0348	0.10	100623.1520
	R2401442-002	Be (313.107 nm)	0.0041	0.39	4294.0518
	R2401442-002	Ca (317.933 nm)	16.3475	0.09	638297.8835
	R2401442-002	Cd (214.439 nm)	0.0076	1.74	484.9627
	R2401442-002	Co (230.786 nm)	0.0875	0.25	1444.2475
	R2401442-002	Cr (267.716 nm)	0.2761	0.34	11938.3079
	R2401442-002	Cu (327.395 nm)	0.1956	0.29	8185.1574
	R2401442-002	Fe (234.350 nm)	182.4221 o	0.12	3984675.1067
	R2401442-002	K (766.491 nm)	9.7011	0.90	9475.0241
	R2401442-002	Mg (279.078 nm)	26.8888	0.11	81560.0494
	R2401442-002	Mn (257.610 nm)	5.0558 o	0.04	1680670.0309
	R2401442-002	Mo (202.032 nm)	0.0084	7.49	59.8905
	R2401442-002	Na (588.995 nm)	0.6873	0.15	-3143.9488
	R2401442-002	Ni (230.299 nm)	0.2791	0.34	3499.1241
	R2401442-002	Pb (220.353 nm)	1.4491 o	0.14	7992.5998
	R2401442-002	Sb (217.582 nm)	0.0077	12.33	21.2920
	R2401442-002	Se (196.026 nm)	-0.0093 u	41.18	-4.9517
	R2401442-002	Sn (189.925 nm)	0.0329	1.28	105.1319
	R2401442-002	Sr (216.596 nm)	0.1304	0.08	2550.4440
	R2401442-002	Ti (336.122 nm)	0.6386	0.83	81161.8107
	R2401442-002	Tl (190.794 nm)	-0.0007 u	> 100.00	-1.4525
	R2401442-002	V (292.401 nm)	0.1475	0.35	5809.1454
	R2401442-002	Y (360.074 nm)	1.00	0.55	474806.82
	R2401442-002	Y_R (360.074 nm)	1.00	0.55	474773.66
	R2401442-002	Zn (213.857 nm)	0.8468	0.27	46781.5672
2/23/2024 17:56:03	R2401442-003	Ag (328.068 nm)	0.0208	1.21	975.2434
	R2401442-003	Al (237.312 nm)	313.0110 o	0.08	790176.0245
	R2401442-003	As (188.980 nm)	0.3541	0.67	618.2786
	R2401442-003	B (249.772 nm)	2.0605	0.03	69921.9639
	R2401442-003	Ba (230.424 nm)	6.5718	0.10	324986.1880
	R2401442-003	Be (313.107 nm)	0.0012	1.02	1049.9248
	R2401442-003	Ca (317.933 nm)	75.4799 o	0.22	2937697.5476
	R2401442-003	Cd (214.439 nm)	0.3227	0.05	21032.6340
	R2401442-003	Co (230.786 nm)	0.0679	0.65	1133.5993

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401442-003	Cr (267.716 nm)	0.2614	0.61	11303.7769
	R2401442-003	Cu (327.395 nm)	6.6418 o	0.29	276770.4712
	R2401442-003	Fe (234.350 nm)	169.2846 o	0.13	3697724.8005
	R2401442-003	K (766.491 nm)	6.0349	0.94	5797.2572
	R2401442-003	Mg (279.078 nm)	12.2966	0.06	37284.1140
	R2401442-003	Mn (257.610 nm)	5.2251 o	0.10	1736948.0119
	R2401442-003	Mo (202.032 nm)	0.0399	1.18	311.3562
	R2401442-003	Na (588.995 nm)	5.3851	0.40	50392.8191
	R2401442-003	Ni (230.299 nm)	1.4146	0.10	17442.0539
	R2401442-003	Pb (220.353 nm)	42.0414 o	0.09	231441.7132
	R2401442-003	Sb (217.582 nm)	0.9863	0.57	2337.1763
	R2401442-003	Se (196.026 nm)	0.0468	14.18	37.2225
	R2401442-003	Sn (189.925 nm)	0.4533	0.36	1357.7102
	R2401442-003	Sr (216.596 nm)	0.3443	0.21	6802.6488
	R2401442-003	Ti (336.122 nm)	1.0090	1.20	128357.9080
	R2401442-003	Tl (190.794 nm)	-0.0018 u	67.12	-2.6812
	R2401442-003	V (292.401 nm)	0.0914	0.49	3579.3064
	R2401442-003	Y (360.074 nm)	0.93	0.48	442655.87
	R2401442-003	Y_R (360.074 nm)	0.93	0.48	442604.41
	R2401442-003	Zn (213.857 nm)	9.2117 o	0.14	509273.9270
2/23/2024 17:59:17	R2401442-003S	Ag (328.068 nm)	0.0884	0.21	4960.6538
	R2401442-003S	Al (237.312 nm)	166.2969 o	0.16	419836.3740
	R2401442-003S	As (188.980 nm)	0.4353	0.54	763.5113
	R2401442-003S	B (249.772 nm)	3.0334	0.04	102919.8404
	R2401442-003S	Ba (230.424 nm)	9.5909	0.17	474290.4208
	R2401442-003S	Be (313.107 nm)	0.0494	0.07	53395.5668
	R2401442-003S	Ca (317.933 nm)	80.3537 o	0.12	3127218.3879
	R2401442-003S	Cd (214.439 nm)	0.3885	0.09	25319.7125
	R2401442-003S	Co (230.786 nm)	0.6114	0.19	9756.6153
	R2401442-003S	Cr (267.716 nm)	0.4820	0.17	20851.4733
	R2401442-003S	Cu (327.395 nm)	2.8229 o	0.09	117651.3571
	R2401442-003S	Fe (234.350 nm)	240.0718 o	0.07	5243868.4381
	R2401442-003S	K (766.491 nm)	27.9752	0.23	27806.8599
	R2401442-003S	Mg (279.078 nm)	19.9749	0.05	60581.7424
	R2401442-003S	Mn (257.610 nm)	4.5786 o	0.08	1522008.7370
	R2401442-003S	Mo (202.032 nm)	0.5195	0.49	4141.5746
	R2401442-003S	Na (588.995 nm)	28.1295	0.30	309590.7337
	R2401442-003S	Ni (230.299 nm)	1.1618	0.12	14337.1930
	R2401442-003S	Pb (220.353 nm)	9.5030 o	0.07	52326.9535
	R2401442-003S	Sb (217.582 nm)	1.4297	0.53	3386.3212
	R2401442-003S	Se (196.026 nm)	0.9623	0.81	725.2612
	R2401442-003S	Sn (189.925 nm)	5.5047	0.12	16408.0675
	R2401442-003S	Sr (216.596 nm)	2.3427	0.09	46534.7012
	R2401442-003S	Ti (336.122 nm)	1.5432	0.72	196417.8714
	R2401442-003S	Tl (190.794 nm)	1.8931	0.29	2026.0630
	R2401442-003S	V (292.401 nm)	0.6077	0.04	24088.2075
	R2401442-003S	Y (360.074 nm)	0.94	0.48	448342.77
	R2401442-003S	Y_R (360.074 nm)	0.94	0.47	448264.87
	R2401442-003S	Zn (213.857 nm)	10.7111 o	0.25	592172.6578
2/23/2024 18:02:30	R2401442-003SD	Ag (328.068 nm)	0.0739	0.13	4106.3911
	R2401442-003SD	Al (237.312 nm)	162.3786 o	0.08	409945.8359
	R2401442-003SD	As (188.980 nm)	0.4356	0.24	764.0658
	R2401442-003SD	B (249.772 nm)	3.3809	0.06	114703.3227
	R2401442-003SD	Ba (230.424 nm)	9.7639	0.16	482844.0223
	R2401442-003SD	Be (313.107 nm)	0.0490	0.01	52963.9749
	R2401442-003SD	Ca (317.933 nm)	131.8354 o	0.13	5129119.8192
	R2401442-003SD	Cd (214.439 nm)	0.3394	0.03	22118.9913

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401442-003SD	Co (230.786 nm)	0.5900	0.16	9416.4848
	R2401442-003SD	Cr (267.716 nm)	0.4927	0.10	21318.3106
	R2401442-003SD	Cu (327.395 nm)	2.9234 o	0.26	121840.0071
	R2401442-003SD	Fe (234.350 nm)	278.3776 o	0.03	6080547.1536
	R2401442-003SD	K (766.491 nm)	27.8826	0.17	27713.9833
	R2401442-003SD	Mg (279.078 nm)	20.0919	0.02	60936.6040
	R2401442-003SD	Mn (257.610 nm)	4.3882 o	0.04	1458732.8683
	R2401442-003SD	Mo (202.032 nm)	0.5274	0.35	4204.2744
	R2401442-003SD	Na (588.995 nm)	26.9787	0.25	296475.9568
	R2401442-003SD	Ni (230.299 nm)	1.3056	0.07	16103.5746
	R2401442-003SD	Pb (220.353 nm)	8.7188 o	0.03	48010.3969
	R2401442-003SD	Sb (217.582 nm)	1.6244	0.35	3847.0776
	R2401442-003SD	Se (196.026 nm)	0.9398	1.07	708.3889
	R2401442-003SD	Sn (189.925 nm)	5.9060	0.10	17603.5334
	R2401442-003SD	Sr (216.596 nm)	2.4847	0.31	49356.7556
	R2401442-003SD	Ti (336.122 nm)	1.6222	0.38	206486.1899
	R2401442-003SD	Tl (190.794 nm)	1.8633	0.24	1994.2039
	R2401442-003SD	V (292.401 nm)	0.6133	0.10	24309.2730
	R2401442-003SD	Y (360.074 nm)	0.93	0.55	444242.91
	R2401442-003SD	Y_R (360.074 nm)	0.93	0.54	444116.03
	R2401442-003SD	Zn (213.857 nm)	9.0543 o	0.14	500569.0168
2/23/2024 18:05:44	R2401442-003A	Ag (328.068 nm)	0.0727	0.24	4035.9080
	R2401442-003A	Al (237.312 nm)	306.6007 o	0.13	773995.0367
	R2401442-003A	As (188.980 nm)	0.3840	0.69	671.7395
	R2401442-003A	B (249.772 nm)	2.9659	0.09	100627.8083
	R2401442-003A	Ba (230.424 nm)	8.4092	0.20	415851.0602
	R2401442-003A	Be (313.107 nm)	0.0490	0.06	52972.9260
	R2401442-003A	Ca (317.933 nm)	75.3597 o	0.14	2933024.2332
	R2401442-003A	Cd (214.439 nm)	0.3640	0.05	23724.3197
	R2401442-003A	Co (230.786 nm)	0.5700	0.14	9099.3013
	R2401442-003A	Cr (267.716 nm)	0.4569	0.31	19767.3686
	R2401442-003A	Cu (327.395 nm)	6.7066 o	0.05	279469.6390
	R2401442-003A	Fe (234.350 nm)	165.5332 o	0.05	3615786.5729
	R2401442-003A	K (766.491 nm)	26.7747	0.21	26602.6530
	R2401442-003A	Mg (279.078 nm)	13.8478	0.08	41990.7268
	R2401442-003A	Mn (257.610 nm)	5.5400 o	0.09	1841620.0263
	R2401442-003A	Mo (202.032 nm)	0.5283	0.59	4211.6227
	R2401442-003A	Na (588.995 nm)	26.5587	0.23	291689.2108
	R2401442-003A	Ni (230.299 nm)	1.8857	0.11	23226.6993
	R2401442-003A	Pb (220.353 nm)	41.0998 o	0.04	226258.4131
	R2401442-003A	Sb (217.582 nm)	1.4634	0.75	3466.1434
	R2401442-003A	Se (196.026 nm)	1.0144	1.14	764.4207
	R2401442-003A	Sn (189.925 nm)	5.4043	0.08	16108.8145
	R2401442-003A	Sr (216.596 nm)	2.3188	0.52	46058.2966
	R2401442-003A	Ti (336.122 nm)	1.4728	0.71	187454.2166
	R2401442-003A	Tl (190.794 nm)	1.9185	0.20	2053.3066
	R2401442-003A	V (292.401 nm)	0.5848	0.03	23179.6815
	R2401442-003A	Y (360.074 nm)	0.93	0.51	441232.50
	R2401442-003A	Y_R (360.074 nm)	0.92	0.51	441106.25
	R2401442-003A	Zn (213.857 nm)	9.4341 o	0.27	521567.5423
2/23/2024 18:08:58	Continuing Calibration Verification1	Ag (328.068 nm)	0.5243	0.17	30652.0899
	Continuing Calibration Verification1	Al (237.312 nm)	10.1395	0.04	25659.9134
	Continuing Calibration Verification1	As (188.980 nm)	0.9862	0.33	1748.8261
	Continuing Calibration Verification1	B (249.772 nm)	2.4180	0.24	82044.7497
	Continuing Calibration Verification1	Ba (230.424 nm)	10.3292	0.34	510801.7515
	Continuing Calibration Verification1	Be (313.107 nm)	0.2402	0.19	260577.1447
	Continuing Calibration Verification1	Ca (317.933 nm)	25.9717	0.23	1012541.3531

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification1	Cd (214.439 nm)	0.5090	0.17	33180.4357
	Continuing Calibration Verification1	Co (230.786 nm)	2.5597	0.34	40668.3686
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5254	0.25	22730.9680
	Continuing Calibration Verification1	Cu (327.395 nm)	1.2534	0.31	52255.9672
	Continuing Calibration Verification1	Fe (234.350 nm)	5.1137	0.26	111886.4540
	Continuing Calibration Verification1	K (766.491 nm)	24.9880	0.26	24810.3155
	Continuing Calibration Verification1	Mg (279.078 nm)	25.5454	0.20	77483.9267
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7534	0.22	250445.9707
	Continuing Calibration Verification1	Mo (202.032 nm)	2.5363	0.73	20248.1570
	Continuing Calibration Verification1	Na (588.995 nm)	25.6343	0.11	281155.1165
	Continuing Calibration Verification1	Ni (230.299 nm)	2.1170	0.18	26066.8492
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5094	0.35	2819.6597
	Continuing Calibration Verification1	Sb (217.582 nm)	4.9523	0.13	11722.6474
	Continuing Calibration Verification1	Se (196.026 nm)	0.4875	0.39	368.4160
	Continuing Calibration Verification1	Sn (189.925 nm)	5.0770	0.23	15133.7853
	Continuing Calibration Verification1	Sr (216.596 nm)	2.5096	0.24	49853.4830
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5360	0.18	322915.8266
	Continuing Calibration Verification1	Tl (190.794 nm)	1.0049	0.40	1075.1435
	Continuing Calibration Verification1	V (292.401 nm)	2.5368	0.19	100708.2669
	Continuing Calibration Verification1	Y (360.074 nm)	0.96	0.38	455456.31
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.95	0.38	455352.50
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9978	0.22	55125.7245
2/23/2024 18:12:12	Continuing Calibration Blank1	Ag (328.068 nm)	-0.0001 u	54.96	-258.2850
	Continuing Calibration Blank1	Al (237.312 nm)	0.0003 u	> 100.00	66.1356
	Continuing Calibration Blank1	As (188.980 nm)	0.0020 u	> 100.00	-11.4437
	Continuing Calibration Blank1	B (249.772 nm)	0.0026	12.07	125.0333
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0001	24.92	1.3543
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000	20.02	-192.0098
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0045	1.83	2785.8931
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000 u	> 100.00	-6.6459
	Continuing Calibration Blank1	Co (230.786 nm)	0.0001 u	> 100.00	58.1026
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0000 u	29.52	-15.4923
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0002 u	> 100.00	41.5244
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0069	25.54	342.3647
	Continuing Calibration Blank1	K (766.491 nm)	0.1527	11.75	-103.5213
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0005 u	> 100.00	-25.1124
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0000	82.23	-4.2207
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0059	5.57	39.9182
	Continuing Calibration Blank1	Na (588.995 nm)	0.0971	2.71	-9869.5431
	Continuing Calibration Blank1	Ni (230.299 nm)	-0.0004 u	> 100.00	67.1077
	Continuing Calibration Blank1	Pb (220.353 nm)	0.0003 u	> 100.00	17.6506
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0118 Z 0.064	4.17	30.9677 Z
	Continuing Calibration Blank1	Se (196.026 nm)	-0.0005 u	> 100.00	1.6474
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0015	24.22	11.5426
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0001 u	> 100.00	-40.3630
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0079	27.32	805.6889
	Continuing Calibration Blank1	Tl (190.794 nm)	-0.0008 u	> 100.00	-1.6109
	Continuing Calibration Blank1	V (292.401 nm)	-0.0002 u	46.07	-57.4065
	Continuing Calibration Blank1	Y (360.074 nm)	1.00	0.17	477289.18
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.00	0.17	477174.40
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0002	25.60	-28.7463
2/23/2024 18:15:26	R2401442-003L 5X	Ag (328.068 nm)	0.0040	4.59	-18.5322
	R2401442-003L 5X	Al (237.312 nm)	61.5662 o	3.32	155472.4929
	R2401442-003L 5X	As (188.980 nm)	0.0701	5.51	110.3836
	R2401442-003L 5X	B (249.772 nm)	0.4131	3.36	14047.1242
	R2401442-003L 5X	Ba (230.424 nm)	1.2717	3.31	62882.1015
	R2401442-003L 5X	Be (313.107 nm)	0.0002	3.79	63.5383

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401442-003L 5X	Ca (317.933 nm)	14.8223	3.28	578987.0159
	R2401442-003L 5X	Cd (214.439 nm)	0.0648	3.36	4216.9318
	R2401442-003L 5X	Co (230.786 nm)	0.0134	3.75	268.7257
	R2401442-003L 5X	Cr (267.716 nm)	0.0496	3.59	2134.2507
	R2401442-003L 5X	Cu (327.395 nm)	1.2349	3.31	51487.3318
	R2401442-003L 5X	Fe (234.350 nm)	34.8961 o	2.96	762396.1116
	R2401442-003L 5X	K (766.491 nm)	1.1664	4.33	913.4144
	R2401442-003L 5X	Mg (279.078 nm)	2.4741	3.41	7480.3728
	R2401442-003L 5X	Mn (257.610 nm)	1.0380	3.24	345059.7570
	R2401442-003L 5X	Mo (202.032 nm)	0.0088	0.45	62.4153
	R2401442-003L 5X	Na (588.995 nm)	1.0505	3.10	995.3103
	R2401442-003L 5X	Ni (230.299 nm)	0.2804	3.26	3515.1556
	R2401442-003L 5X	Pb (220.353 nm)	8.5275 o	3.37	46956.9756
	R2401442-003L 5X	Sb (217.582 nm)	0.1959	3.25	466.4819
	R2401442-003L 5X	Se (196.026 nm)	0.0071	86.52	7.3183
	R2401442-003L 5X	Sn (189.925 nm)	0.0894	3.54	273.4384
	R2401442-003L 5X	Sr (216.596 nm)	0.0678	2.91	1305.1969
	R2401442-003L 5X	Ti (336.122 nm)	0.1854	7.27	23426.2641
	R2401442-003L 5X	Tl (190.794 nm)	-0.0011 u	> 100.00	-1.9421
	R2401442-003L 5X	V (292.401 nm)	0.0173	4.70	636.0732
	R2401442-003L 5X	Y (360.074 nm)	0.98	0.36	469196.18
	R2401442-003L 5X	Y_R (360.074 nm)	0.98	0.36	469052.35
	R2401442-003L 5X	Zn (213.857 nm)	1.8394	3.13	101658.9026
2/23/2024 18:18:40	R2401379-001 10X	Ag (328.068 nm)	0.0000 u	> 100.00	-252.9183
	R2401379-001 10X	Al (237.312 nm)	7.8530	0.97	19888.2005
	R2401379-001 10X	As (188.980 nm)	0.0055	10.69	-5.1369
	R2401379-001 10X	B (249.772 nm)	0.0205	0.98	730.4928
	R2401379-001 10X	Ba (230.424 nm)	0.0476	0.81	2347.9295
	R2401379-001 10X	Be (313.107 nm)	0.0009	0.95	725.5715
	R2401379-001 10X	Ca (317.933 nm)	18.0376	0.11	704015.5304
	R2401379-001 10X	Cd (214.439 nm)	0.0002	2.08	6.7532
	R2401379-001 10X	Co (230.786 nm)	0.0045	3.78	127.6640
	R2401379-001 10X	Cr (267.716 nm)	0.0106	1.65	443.0492
	R2401379-001 10X	Cu (327.395 nm)	0.0085	2.86	387.6768
	R2401379-001 10X	Fe (234.350 nm)	11.6034 o	0.08	253633.5754
	R2401379-001 10X	K (766.491 nm)	1.4463	1.36	1194.1320
	R2401379-001 10X	Mg (279.078 nm)	3.4643	0.38	10484.9693
	R2401379-001 10X	Mn (257.610 nm)	0.1509	0.13	50143.0675
	R2401379-001 10X	Mo (202.032 nm)	0.0014	12.09	3.7543
	R2401379-001 10X	Na (588.995 nm)	0.3955	0.28	-6469.2130
	R2401379-001 10X	Ni (230.299 nm)	0.0095	4.03	188.8847
	R2401379-001 10X	Pb (220.353 nm)	0.0128	6.90	86.2405
	R2401379-001 10X	Sb (217.582 nm)	0.0018 u	98.34	7.2866
	R2401379-001 10X	Se (196.026 nm)	0.0003 u	> 100.00	2.2380
	R2401379-001 10X	Sn (189.925 nm)	0.0026	24.60	14.8140
	R2401379-001 10X	Sr (216.596 nm)	0.0545	0.82	1040.7540
	R2401379-001 10X	Ti (336.122 nm)	0.0797	1.69	9954.4051
	R2401379-001 10X	Tl (190.794 nm)	-0.0013 u	> 100.00	-2.1637
	R2401379-001 10X	V (292.401 nm)	0.0098	1.92	339.2284
	R2401379-001 10X	Y (360.074 nm)	1.00	0.40	476908.76
	R2401379-001 10X	Y_R (360.074 nm)	1.00	0.40	476759.64
	R2401379-001 10X	Zn (213.857 nm)	0.0361	0.52	1958.5007
2/23/2024 18:21:54	R2401435-001 10X	Ag (328.068 nm)	0.0009	18.42	-196.9598
	R2401435-001 10X	Al (237.312 nm)	17.2258	1.10	43547.2525
	R2401435-001 10X	As (188.980 nm)	0.0050	23.97	-5.9304
	R2401435-001 10X	B (249.772 nm)	0.0581	0.93	2007.0355
	R2401435-001 10X	Ba (230.424 nm)	0.1496	0.97	7390.3700

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401435-001 10X	Be (313.107 nm)	0.0002	2.34	45.1064
	R2401435-001 10X	Ca (317.933 nm)	41.1388	0.93	1602322.7708
	R2401435-001 10X	Cd (214.439 nm)	0.0021	1.34	129.0874
	R2401435-001 10X	Co (230.786 nm)	0.0106	1.63	224.7549
	R2401435-001 10X	Cr (267.716 nm)	0.0338	0.92	1450.2583
	R2401435-001 10X	Cu (327.395 nm)	0.2629	0.96	10988.7469
	R2401435-001 10X	Fe (234.350 nm)	8.8217	0.89	192875.7299
	R2401435-001 10X	K (766.491 nm)	3.7884	1.52	3543.7253
	R2401435-001 10X	Mg (279.078 nm)	4.8637	0.95	14730.9315
	R2401435-001 10X	Mn (257.610 nm)	0.2990	0.96	99379.2814
	R2401435-001 10X	Mo (202.032 nm)	0.0047	4.83	30.1764
	R2401435-001 10X	Na (588.995 nm)	6.9177	1.01	67858.0424
	R2401435-001 10X	Ni (230.299 nm)	0.0303	1.30	443.9228
	R2401435-001 10X	Pb (220.353 nm)	0.0986	1.29	558.4526
	R2401435-001 10X	Sb (217.582 nm)	0.0075	29.73	20.6301
	R2401435-001 10X	Se (196.026 nm)	-0.0017 u	> 100.00	0.7540
	R2401435-001 10X	Sn (189.925 nm)	0.0360	2.26	114.2721
	R2401435-001 10X	Sr (216.596 nm)	0.0725	0.93	1399.9253
	R2401435-001 10X	Ti (336.122 nm)	0.0451	1.03	5549.5264
	R2401435-001 10X	Tl (190.794 nm)	-0.0002 u	90.77	-0.9469
	R2401435-001 10X	V (292.401 nm)	0.0059	2.46	185.7639
	R2401435-001 10X	Y (360.074 nm)	0.99	0.33	470654.13
	R2401435-001 10X	Y_R (360.074 nm)	0.99	0.33	470502.60
	R2401435-001 10X	Zn (213.857 nm)	0.5486	0.99	30294.2408
2/23/2024 18:25:07	R2401439-001 10X	Ag (328.068 nm)	-0.0002 u	37.51	-263.8233
	R2401439-001 10X	Al (237.312 nm)	12.2522	0.57	30992.7903
	R2401439-001 10X	As (188.980 nm)	0.0126	16.28	7.5873
	R2401439-001 10X	B (249.772 nm)	0.0420	0.93	1462.0016
	R2401439-001 10X	Ba (230.424 nm)	0.0885	0.62	4369.8293
	R2401439-001 10X	Be (313.107 nm)	0.0006	0.68	446.0664
	R2401439-001 10X	Ca (317.933 nm)	50.4991	0.07	1966303.7222
	R2401439-001 10X	Cd (214.439 nm)	0.0005	8.58	26.2863
	R2401439-001 10X	Co (230.786 nm)	0.0115	0.95	238.3814
	R2401439-001 10X	Cr (267.716 nm)	0.0875	0.27	3774.2460
	R2401439-001 10X	Cu (327.395 nm)	0.0535	0.26	2262.2794
	R2401439-001 10X	Fe (234.350 nm)	31.2695 o	0.11	683183.3029
	R2401439-001 10X	K (766.491 nm)	1.5613	2.98	1309.5311
	R2401439-001 10X	Mg (279.078 nm)	8.3571	0.10	25330.8113
	R2401439-001 10X	Mn (257.610 nm)	0.2818	0.07	93682.3464
	R2401439-001 10X	Mo (202.032 nm)	0.0036	5.58	21.2804
	R2401439-001 10X	Na (588.995 nm)	0.5539	1.01	-4663.9978
	R2401439-001 10X	Ni (230.299 nm)	0.0832	1.13	1093.8190
	R2401439-001 10X	Pb (220.353 nm)	0.2358	0.26	1313.7718
	R2401439-001 10X	Sb (217.582 nm)	0.0007 u	> 100.00	4.6619
	R2401439-001 10X	Se (196.026 nm)	-0.0069 u	20.07	-3.1370
	R2401439-001 10X	Sn (189.925 nm)	0.0035	25.79	17.5420
	R2401439-001 10X	Sr (216.596 nm)	0.0508	0.53	967.7024
	R2401439-001 10X	Ti (336.122 nm)	0.2198	1.26	27807.9655
	R2401439-001 10X	Tl (190.794 nm)	-0.0007 u	> 100.00	-1.5117
	R2401439-001 10X	V (292.401 nm)	0.0290	0.59	1101.4296
	R2401439-001 10X	Y (360.074 nm)	0.98	0.41	467683.88
	R2401439-001 10X	Y_R (360.074 nm)	0.98	0.41	467502.22
	R2401439-001 10X	Zn (213.857 nm)	0.0898	0.03	4923.0527
2/23/2024 18:28:21	R2401442-002 10X	Ag (328.068 nm)	-0.0002 u	> 100.00	-263.6383
	R2401442-002 10X	Al (237.312 nm)	10.3559	0.56	26206.0996
	R2401442-002 10X	As (188.980 nm)	0.0119	12.27	6.2588
	R2401442-002 10X	B (249.772 nm)	0.0276	0.77	972.8710

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401442-002 10X	Ba (230.424 nm)	0.2155	0.36	10649.9046
	R2401442-002 10X	Be (313.107 nm)	0.0004	1.76	281.9384
	R2401442-002 10X	Ca (317.933 nm)	1.7596	0.16	71036.7520
	R2401442-002 10X	Cd (214.439 nm)	0.0009	1.20	48.5597
	R2401442-002 10X	Co (230.786 nm)	0.0092	2.62	202.4735
	R2401442-002 10X	Cr (267.716 nm)	0.0291	0.90	1247.7643
	R2401442-002 10X	Cu (327.395 nm)	0.0198	0.98	860.5236
	R2401442-002 10X	Fe (234.350 nm)	21.0320 o	0.15	459575.6178
	R2401442-002 10X	K (766.491 nm)	1.0634	3.94	810.0508
	R2401442-002 10X	Mg (279.078 nm)	2.9221	0.27	8839.9061
	R2401442-002 10X	Mn (257.610 nm)	0.5504	0.20	182963.7115
	R2401442-002 10X	Mo (202.032 nm)	0.0013	20.74	2.6912
	R2401442-002 10X	Na (588.995 nm)	0.1305	2.73	-9488.9747
	R2401442-002 10X	Ni (230.299 nm)	0.0302	1.07	442.8902
	R2401442-002 10X	Pb (220.353 nm)	0.1598	0.52	895.4117
	R2401442-002 10X	Sb (217.582 nm)	0.0033	23.84	10.7722
	R2401442-002 10X	Se (196.026 nm)	-0.0003 u	> 100.00	1.8145
	R2401442-002 10X	Sn (189.925 nm)	0.0038	9.70	18.5734
	R2401442-002 10X	Sr (216.596 nm)	0.0139	1.02	235.3479
	R2401442-002 10X	Ti (336.122 nm)	0.0613	3.85	7611.1108
	R2401442-002 10X	Tl (190.794 nm)	0.0004 u	> 100.00	-0.3545
	R2401442-002 10X	V (292.401 nm)	0.0151	1.08	551.6239
	R2401442-002 10X	Y (360.074 nm)	1.00	0.51	478661.39
	R2401442-002 10X	Y_R (360.074 nm)	1.00	0.51	478490.05
	R2401442-002 10X	Zn (213.857 nm)	0.0928	0.57	5092.3744
2/23/2024 18:31:34	R2401442-003 10X	Ag (328.068 nm)	0.0019	5.19	-141.0323
	R2401442-003 10X	Al (237.312 nm)	32.5877 o	3.04	82324.1440
	R2401442-003 10X	As (188.980 nm)	0.0376	5.43	52.2366
	R2401442-003 10X	B (249.772 nm)	0.2175	2.65	7412.3274
	R2401442-003 10X	Ba (230.424 nm)	0.6773	2.76	33488.1871
	R2401442-003 10X	Be (313.107 nm)	0.0001	1.25	-59.5258
	R2401442-003 10X	Ca (317.933 nm)	7.8868	2.74	309297.5172
	R2401442-003 10X	Cd (214.439 nm)	0.0343	2.73	2231.0917
	R2401442-003 10X	Co (230.786 nm)	0.0070	1.94	166.8023
	R2401442-003 10X	Cr (267.716 nm)	0.0267	3.08	1144.0473
	R2401442-003 10X	Cu (327.395 nm)	0.6537	2.86	27268.4573
	R2401442-003 10X	Fe (234.350 nm)	18.7459 o	2.66	409641.9873
	R2401442-003 10X	K (766.491 nm)	0.6471	9.05	392.5026
	R2401442-003 10X	Mg (279.078 nm)	1.3134	2.96	3958.5240
	R2401442-003 10X	Mn (257.610 nm)	0.5494	2.79	182625.3354
	R2401442-003 10X	Mo (202.032 nm)	0.0042	12.31	25.9606
	R2401442-003 10X	Na (588.995 nm)	0.5653	1.85	-4534.6019
	R2401442-003 10X	Ni (230.299 nm)	0.1489	2.32	1899.9428
	R2401442-003 10X	Pb (220.353 nm)	4.6397 o	2.71	25555.8736
	R2401442-003 10X	Sb (217.582 nm)	0.1022	4.58	244.7678
	R2401442-003 10X	Se (196.026 nm)	0.0005 u	> 100.00	2.3983
	R2401442-003 10X	Sn (189.925 nm)	0.0471	1.96	147.5122
	R2401442-003 10X	Sr (216.596 nm)	0.0359	2.68	672.5424
	R2401442-003 10X	Ti (336.122 nm)	0.1008	7.83	12647.6436
	R2401442-003 10X	Tl (190.794 nm)	-0.0013 u	> 100.00	-2.1769
	R2401442-003 10X	V (292.401 nm)	0.0092	2.83	314.3023
	R2401442-003 10X	Y (360.074 nm)	0.99	0.32	472862.96
	R2401442-003 10X	Y_R (360.074 nm)	0.99	0.32	472680.38
	R2401442-003 10X	Zn (213.857 nm)	0.9755	2.68	53894.4512
2/23/2024 18:34:48	R2401442-003S 10X	Ag (328.068 nm)	0.0088	0.51	267.0371
	R2401442-003S 10X	Al (237.312 nm)	16.8273	1.32	42541.3624
	R2401442-003S 10X	As (188.980 nm)	0.0468	0.96	68.7615

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401442-003S 10X	B (249.772 nm)	0.3170	0.86	10788.1433
	R2401442-003S 10X	Ba (230.424 nm)	0.9785	0.89	48383.3635
	R2401442-003S 10X	Be (313.107 nm)	0.0050	0.93	5274.7439
	R2401442-003S 10X	Ca (317.933 nm)	8.3703	0.96	328095.7266
	R2401442-003S 10X	Cd (214.439 nm)	0.0409	0.77	2656.7935
	R2401442-003S 10X	Co (230.786 nm)	0.0635	1.78	1063.4655
	R2401442-003S 10X	Cr (267.716 nm)	0.0485	0.88	2087.0068
	R2401442-003S 10X	Cu (327.395 nm)	0.2741	1.18	11455.9188
	R2401442-003S 10X	Fe (234.350 nm)	27.2530 o	0.89	595454.6945
	R2401442-003S 10X	K (766.491 nm)	2.6718	1.91	2423.5064
	R2401442-003S 10X	Mg (279.078 nm)	2.1121	1.12	6382.1780
	R2401442-003S 10X	Mn (257.610 nm)	0.4778	0.99	158833.6751
	R2401442-003S 10X	Mo (202.032 nm)	0.0512	0.99	401.6334
	R2401442-003S 10X	Na (588.995 nm)	2.7375	1.21	20219.9717
	R2401442-003S 10X	Ni (230.299 nm)	0.1213	0.59	1561.3391
	R2401442-003S 10X	Pb (220.353 nm)	1.0135	1.02	5595.0648
	R2401442-003S 10X	Sb (217.582 nm)	0.1452	1.58	346.6469
	R2401442-003S 10X	Se (196.026 nm)	0.1051	2.69	80.9829
	R2401442-003S 10X	Sn (189.925 nm)	0.5713	0.91	1709.2207
	R2401442-003S 10X	Sr (216.596 nm)	0.2431	0.98	4790.5517
	R2401442-003S 10X	Ti (336.122 nm)	0.1451	1.94	18286.6767
	R2401442-003S 10X	Tl (190.794 nm)	0.2013	1.58	214.7574
	R2401442-003S 10X	V (292.401 nm)	0.0595	1.18	2312.4777
	R2401442-003S 10X	Y (360.074 nm)	0.99	0.24	472403.97
	R2401442-003S 10X	Y_R (360.074 nm)	0.99	0.24	472201.83
	R2401442-003S 10X	Zn (213.857 nm)	1.1340	0.97	62660.9016
2/23/2024 18:38:01	R2401442-003SD 10X	Ag (328.068 nm)	0.0073	3.20	180.6696
	R2401442-003SD 10X	Al (237.312 nm)	16.2399	0.54	41058.5842
	R2401442-003SD 10X	As (188.980 nm)	0.0456	7.02	66.5775
	R2401442-003SD 10X	B (249.772 nm)	0.3505	0.24	11924.9842
	R2401442-003SD 10X	Ba (230.424 nm)	0.9933	0.43	49117.8820
	R2401442-003SD 10X	Be (313.107 nm)	0.0050	0.44	5231.0778
	R2401442-003SD 10X	Ca (317.933 nm)	13.8125	0.37	539720.2153
	R2401442-003SD 10X	Cd (214.439 nm)	0.0357	0.68	2319.5161
	R2401442-003SD 10X	Co (230.786 nm)	0.0608	0.79	1021.1523
	R2401442-003SD 10X	Cr (267.716 nm)	0.0492	0.74	2117.2965
	R2401442-003SD 10X	Cu (327.395 nm)	0.2807	0.54	11728.6923
	R2401442-003SD 10X	Fe (234.350 nm)	32.0392 o	0.30	699996.1089
	R2401442-003SD 10X	K (766.491 nm)	2.6177	2.35	2369.3108
	R2401442-003SD 10X	Mg (279.078 nm)	2.1222	0.41	6412.7112
	R2401442-003SD 10X	Mn (257.610 nm)	0.4542	0.38	150986.9162
	R2401442-003SD 10X	Mo (202.032 nm)	0.0524	0.87	410.6814
	R2401442-003SD 10X	Na (588.995 nm)	2.5896	0.44	18535.0894
	R2401442-003SD 10X	Ni (230.299 nm)	0.1356	0.61	1736.7564
	R2401442-003SD 10X	Pb (220.353 nm)	0.9287	0.45	5127.8883
	R2401442-003SD 10X	Sb (217.582 nm)	0.1642	1.16	391.5169
	R2401442-003SD 10X	Se (196.026 nm)	0.1032	0.80	79.5782
	R2401442-003SD 10X	Sn (189.925 nm)	0.6144	0.26	1837.6266
	R2401442-003SD 10X	Sr (216.596 nm)	0.2568	0.44	5064.6057
	R2401442-003SD 10X	Ti (336.122 nm)	0.1545	1.58	19485.6422
	R2401442-003SD 10X	Tl (190.794 nm)	0.1996	1.07	212.9065
	R2401442-003SD 10X	V (292.401 nm)	0.0600	0.77	2332.4772
	R2401442-003SD 10X	Y (360.074 nm)	0.99	0.38	471727.58
	R2401442-003SD 10X	Y_R (360.074 nm)	0.99	0.38	471531.69
	R2401442-003SD 10X	Zn (213.857 nm)	0.9432	0.55	52110.0267
2/23/2024 18:41:15	R2401442-003A 10X	Ag (328.068 nm)	0.0537	0.16	2915.5297
	R2401442-003A 10X	Al (237.312 nm)	33.2692 o	0.09	84044.5828

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401442-003A 10X	As (188.980 nm)	0.0767	1.72	122.1828
	R2401442-003A 10X	B (249.772 nm)	1.1936	0.08	40519.7528
	R2401442-003A 10X	Ba (230.424 nm)	2.6681	0.05	131941.0991
	R2401442-003A 10X	Be (313.107 nm)	0.0479	0.11	51848.6031
	R2401442-003A 10X	Ca (317.933 nm)	9.7741	0.12	382684.7724
	R2401442-003A 10X	Cd (214.439 nm)	0.0836	0.10	5446.5269
	R2401442-003A 10X	Co (230.786 nm)	0.5162	0.12	8246.5190
	R2401442-003A 10X	Cr (267.716 nm)	0.2270	0.16	9814.0304
	R2401442-003A 10X	Cu (327.395 nm)	0.8641	0.14	36034.8867
	R2401442-003A 10X	Fe (234.350 nm)	18.7759 o	0.18	410296.8856
	R2401442-003A 10X	K (766.491 nm)	19.9025	0.20	19708.7367
	R2401442-003A 10X	Mg (279.078 nm)	3.2502	0.12	9835.2623
	R2401442-003A 10X	Mn (257.610 nm)	1.0083	0.08	335158.5963
	R2401442-003A 10X	Mo (202.032 nm)	0.4728	0.82	3768.4027
	R2401442-003A 10X	Na (588.995 nm)	20.3823	0.17	221302.0204
	R2401442-003A 10X	Ni (230.299 nm)	0.6628	0.18	8210.5034
	R2401442-003A 10X	Pb (220.353 nm)	4.9064 o	0.04	27024.3049
	R2401442-003A 10X	Sb (217.582 nm)	0.5886	1.20	1396.0069
	R2401442-003A 10X	Se (196.026 nm)	1.0534	0.44	793.7400
	R2401442-003A 10X	Sn (189.925 nm)	4.9988	0.07	14900.7391
	R2401442-003A 10X	Sr (216.596 nm)	2.0087	0.33	39894.3288
	R2401442-003A 10X	Ti (336.122 nm)	0.5943	0.41	75522.7342
	R2401442-003A 10X	Tl (190.794 nm)	1.9719	0.24	2110.4763
	R2401442-003A 10X	V (292.401 nm)	0.4913	0.08	19465.7941
	R2401442-003A 10X	Y (360.074 nm)	0.97	0.22	464149.61
	R2401442-003A 10X	Y_R (360.074 nm)	0.97	0.22	463949.04
	R2401442-003A 10X	Zn (213.857 nm)	1.4559	0.19	80454.1354
2/23/2024 18:44:28	R2401442-003L 50X	Ag (328.068 nm)	0.0002	68.33	-241.7164
	R2401442-003L 50X	Al (237.312 nm)	6.2957	0.15	15957.3059
	R2401442-003L 50X	As (188.980 nm)	0.0090	23.62	1.1335
	R2401442-003L 50X	B (249.772 nm)	0.0429	0.54	1491.3375
	R2401442-003L 50X	Ba (230.424 nm)	0.1293	0.12	6386.5067
	R2401442-003L 50X	Be (313.107 nm)	0.0000	35.94	-167.1707
	R2401442-003L 50X	Ca (317.933 nm)	1.5183	0.11	61651.6216
	R2401442-003L 50X	Cd (214.439 nm)	0.0066	0.28	425.1190
	R2401442-003L 50X	Co (230.786 nm)	0.0011	16.83	73.6248
	R2401442-003L 50X	Cr (267.716 nm)	0.0052	2.18	209.3833
	R2401442-003L 50X	Cu (327.395 nm)	0.1232	0.11	5165.9245
	R2401442-003L 50X	Fe (234.350 nm)	3.5973	0.32	78763.8069
	R2401442-003L 50X	K (766.491 nm)	0.1711	14.38	-85.0975
	R2401442-003L 50X	Mg (279.078 nm)	0.2576	0.66	755.2217
	R2401442-003L 50X	Mn (257.610 nm)	0.1064	0.09	35372.4131
	R2401442-003L 50X	Mo (202.032 nm)	0.0037	11.11	21.9907
	R2401442-003L 50X	Na (588.995 nm)	0.1588	2.64	-9166.5118
	R2401442-003L 50X	Ni (230.299 nm)	0.0285	1.92	421.5921
	R2401442-003L 50X	Pb (220.353 nm)	0.8904	0.10	4917.1486
	R2401442-003L 50X	Sb (217.582 nm)	0.0251	5.46	62.2651
	R2401442-003L 50X	Se (196.026 nm)	0.0010	> 100.00	2.7549
	R2401442-003L 50X	Sn (189.925 nm)	0.0130	10.43	45.9737
	R2401442-003L 50X	Sr (216.596 nm)	0.0070	2.52	96.5923
	R2401442-003L 50X	Ti (336.122 nm)	0.0249	5.87	2978.9694
	R2401442-003L 50X	Tl (190.794 nm)	-0.0015 u	61.27	-2.3513
	R2401442-003L 50X	V (292.401 nm)	0.0017	15.00	16.9329
	R2401442-003L 50X	Y (360.074 nm)	1.00	0.39	477163.19
	R2401442-003L 50X	Y_R (360.074 nm)	1.00	0.39	476953.94
	R2401442-003L 50X	Zn (213.857 nm)	0.1881	0.19	10359.6331
2/23/2024 18:47:42	Continuing Calibration Verification1	Ag (328.068 nm)	0.5270	0.14	30810.4154

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification1	Al (237.312 nm)	10.1814	0.10	25765.6191
	Continuing Calibration Verification1	As (188.980 nm)	0.9885	0.06	1752.9975
	Continuing Calibration Verification1	B (249.772 nm)	2.4215	0.06	82163.6050
	Continuing Calibration Verification1	Ba (230.424 nm)	10.3540	0.26	512028.5082
	Continuing Calibration Verification1	Be (313.107 nm)	0.2395	0.16	259852.4591
	Continuing Calibration Verification1	Ca (317.933 nm)	26.0398	0.24	1015187.9028
	Continuing Calibration Verification1	Cd (214.439 nm)	0.5110	0.21	33308.0302
	Continuing Calibration Verification1	Co (230.786 nm)	2.5721	0.37	40865.4584
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5292	0.19	22895.5223
	Continuing Calibration Verification1	Cu (327.395 nm)	1.2599	0.42	52527.9254
	Continuing Calibration Verification1	Fe (234.350 nm)	5.1099	0.22	111803.4373
	Continuing Calibration Verification1	K (766.491 nm)	25.0931	0.20	24915.7127
	Continuing Calibration Verification1	Mg (279.078 nm)	25.6627	0.17	77839.6966
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7556	0.16	251154.9151
	Continuing Calibration Verification1	Mo (202.032 nm)	2.5438	0.62	20307.8676
	Continuing Calibration Verification1	Na (588.995 nm)	25.7915	0.28	282946.4171
	Continuing Calibration Verification1	Ni (230.299 nm)	2.1233	0.07	26144.4660
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5114	0.08	2830.8552
	Continuing Calibration Verification1	Sb (217.582 nm)	4.9777	0.15	11782.8987
	Continuing Calibration Verification1	Se (196.026 nm)	0.4853	1.14	366.7689
	Continuing Calibration Verification1	Sn (189.925 nm)	5.1006	0.08	15204.1054
	Continuing Calibration Verification1	Sr (216.596 nm)	2.5169	0.40	49997.2807
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5366	0.10	322994.4848
	Continuing Calibration Verification1	Tl (190.794 nm)	1.0104	0.40	1081.0246
	Continuing Calibration Verification1	V (292.401 nm)	2.5468	0.10	101106.2396
	Continuing Calibration Verification1	Y (360.074 nm)	0.95	0.41	452286.36
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.95	0.41	452074.34
	Continuing Calibration Verification1	Zn (213.857 nm)	1.0022	0.09	55371.6600
2/23/2024 18:50:56	Continuing Calibration Blank1	Ag (328.068 nm)	-0.0003 u	67.82	-268.1291
	Continuing Calibration Blank1	Al (237.312 nm)	-0.0017 u	47.51	61.1275
	Continuing Calibration Blank1	As (188.980 nm)	0.0016	44.14	-12.0161
	Continuing Calibration Blank1	B (249.772 nm)	0.0018	17.15	96.7397
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0001	35.39	1.6004
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000	26.18	-181.9315
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0056	4.04	2830.8664
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000 u	> 100.00	-8.4856
	Continuing Calibration Blank1	Co (230.786 nm)	0.0000 u	> 100.00	55.2502
	Continuing Calibration Blank1	Cr (267.716 nm)	-0.0001 u	> 100.00	-19.8904
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0000 u	> 100.00	35.1716
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0056	27.38	312.9834
	Continuing Calibration Blank1	K (766.491 nm)	0.0758	23.66	-180.6493
	Continuing Calibration Blank1	Mg (279.078 nm)	-0.0007 u	> 100.00	-28.5384
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0000	> 100.00	-5.6562
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0070	12.45	48.0745
	Continuing Calibration Blank1	Na (588.995 nm)	0.0641	1.32	-10245.9584
	Continuing Calibration Blank1	Ni (230.299 nm)	-0.0003 u	> 100.00	68.3741
	Continuing Calibration Blank1	Pb (220.353 nm)	0.0002 u	> 100.00	16.6614
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0108 Z 0.064	2.35	28.5439 Z
	Continuing Calibration Blank1	Se (196.026 nm)	-0.0035 u	61.19	-0.5894
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0018	22.11	12.4624
	Continuing Calibration Blank1	Sr (216.596 nm)	-0.0002 u	71.60	-45.5897
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0073	28.21	730.4694
	Continuing Calibration Blank1	Tl (190.794 nm)	-0.0011 u	> 100.00	-1.9620
	Continuing Calibration Blank1	V (292.401 nm)	-0.0002 u	> 100.00	-56.3707
	Continuing Calibration Blank1	Y (360.074 nm)	1.00	0.18	475199.94
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.00	0.18	474977.39
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0002	25.94	-27.9446

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
2/23/2024 18:54:09	Contract Required Detection Limit	Ag (328.068 nm)	0.0096	1.91	314.5650
	Contract Required Detection Limit	Al (237.312 nm)	0.1977	0.46	564.5730
	Contract Required Detection Limit	As (188.980 nm)	0.0209	6.42	22.3818
	Contract Required Detection Limit	B (249.772 nm)	0.1909	0.05	6511.0120
	Contract Required Detection Limit	Ba (230.424 nm)	0.2079	0.26	10274.4346
	Contract Required Detection Limit	Be (313.107 nm)	0.0048	0.12	5014.6591
	Contract Required Detection Limit	Ca (317.933 nm)	1.0304	0.19	42680.9828
	Contract Required Detection Limit	Cd (214.439 nm)	0.0104	0.42	668.8027
	Contract Required Detection Limit	Co (230.786 nm)	0.0515	0.39	872.1722
	Contract Required Detection Limit	Cr (267.716 nm)	0.0102	0.66	428.6255
	Contract Required Detection Limit	Cu (327.395 nm)	0.0248	1.53	1066.2148
	Contract Required Detection Limit	Fe (234.350 nm)	0.1130	1.44	2660.0618
	Contract Required Detection Limit	K (766.491 nm)	1.0141	5.69	760.5950
	Contract Required Detection Limit	Mg (279.078 nm)	0.9972	0.22	2999.2491
	Contract Required Detection Limit	Mn (257.610 nm)	0.0154	0.18	5115.3917
	Contract Required Detection Limit	Mo (202.032 nm)	0.0256	2.74	196.6432
	Contract Required Detection Limit	Na (588.995 nm)	1.0105	0.30	539.1585
	Contract Required Detection Limit	Ni (230.299 nm)	0.0399	1.02	562.0819
	Contract Required Detection Limit	Pb (220.353 nm)	0.0106	1.98	74.0092
	Contract Required Detection Limit	Sb (217.582 nm)	0.0643	1.54	155.0118
	Contract Required Detection Limit	Se (196.026 nm)	0.0108	16.82	10.1087
	Contract Required Detection Limit	Sn (189.925 nm)	0.5092	0.68	1524.1282
	Contract Required Detection Limit	Sr (216.596 nm)	0.1014	0.53	1974.2833
	Contract Required Detection Limit	Ti (336.122 nm)	0.0518	2.02	6397.9594
	Contract Required Detection Limit	Tl (190.794 nm)	0.0186	7.30	19.2004
	Contract Required Detection Limit	V (292.401 nm)	0.0497	0.70	1923.0084
	Contract Required Detection Limit	Y (360.074 nm)	0.99	0.43	470791.10
	Contract Required Detection Limit	Y_R (360.074 nm)	0.99	0.43	470566.33
	Contract Required Detection Limit	Zn (213.857 nm)	0.0193	0.18	1026.3207
2/23/2024 18:57:23	Interference Check Solution A	Ag (328.068 nm)	-0.0003 u	50.22	-271.1350
	Interference Check Solution A	Al (237.312 nm)	259.6599 o	0.07	655505.8074
	Interference Check Solution A	As (188.980 nm)	-0.0017 u	21.51	-18.0806
	Interference Check Solution A	B (249.772 nm)	0.1084	0.35	3712.0057
	Interference Check Solution A	Ba (230.424 nm)	0.0010	11.36	43.3507
	Interference Check Solution A	Be (313.107 nm)	0.0000 u	78.15	-208.9315
	Interference Check Solution A	Ca (317.933 nm)	244.1905 o	0.17	9498122.7156
	Interference Check Solution A	Cd (214.439 nm)	0.0009	8.58	52.3408
	Interference Check Solution A	Co (230.786 nm)	0.0019	3.59	86.1739
	Interference Check Solution A	Cr (267.716 nm)	0.0006	13.97	12.3219
	Interference Check Solution A	Cu (327.395 nm)	0.0013	18.19	87.0535
	Interference Check Solution A	Fe (234.350 nm)	95.8296 o	0.09	2093312.5537
	Interference Check Solution A	K (766.491 nm)	0.1011	15.00	-155.2534
	Interference Check Solution A	Mg (279.078 nm)	268.0393 o	0.12	813262.9905
	Interference Check Solution A	Mn (257.610 nm)	0.0014	1.82	464.5942
	Interference Check Solution A	Mo (202.032 nm)	-0.0001 u	> 100.00	-8.3545
	Interference Check Solution A	Na (588.995 nm)	-0.0217 u	19.75	-11223.1977
	Interference Check Solution A	Ni (230.299 nm)	0.0019	20.72	94.4418
	Interference Check Solution A	Pb (220.353 nm)	0.0021	26.16	27.5002
	Interference Check Solution A	Sb (217.582 nm)	-0.0140 Ku	13.32	-30.1754 K
	Interference Check Solution A	Se (196.026 nm)	-0.0044 u	> 100.00	-1.3209
	Interference Check Solution A	Sn (189.925 nm)	0.0031	13.56	16.2986
	Interference Check Solution A	Sr (216.596 nm)	0.0098	1.96	152.4731
	Interference Check Solution A	Ti (336.122 nm)	0.0033	17.15	229.2079
	Interference Check Solution A	Tl (190.794 nm)	0.0010	> 100.00	0.2748
	Interference Check Solution A	V (292.401 nm)	0.0016	14.22	12.1574
	Interference Check Solution A	Y (360.074 nm)	0.87	0.51	414702.50
	Interference Check Solution A	Y_R (360.074 nm)	0.87	0.51	414468.97

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Interference Check Solution A	Zn (213.857 nm)	0.0133 K+/-0.02	0.52	697.3399 K
2/23/2024 19:00:37	Interference Check Solution AB	Ag (328.068 nm)	0.2094	0.15	12092.1005
	Interference Check Solution AB	Al (237.312 nm)	262.3184 o	0.03	662216.3655
	Interference Check Solution AB	As (188.980 nm)	0.0959	1.60	156.4749
	Interference Check Solution AB	B (249.772 nm)	0.1234	0.10	4220.6536
	Interference Check Solution AB	Ba (230.424 nm)	0.5341	0.13	26405.8850
	Interference Check Solution AB	Be (313.107 nm)	0.4802	0.11	521099.1679
	Interference Check Solution AB	Ca (317.933 nm)	246.5571 o	0.26	9590151.2635
	Interference Check Solution AB	Cd (214.439 nm)	0.9965	0.15	64963.2379
	Interference Check Solution AB	Co (230.786 nm)	0.4958	0.11	7921.6276
	Interference Check Solution AB	Cr (267.716 nm)	0.5228	0.14	22618.2249
	Interference Check Solution AB	Cu (327.395 nm)	0.5421	0.11	22621.7499
	Interference Check Solution AB	Fe (234.350 nm)	96.7225 o	0.18	2112815.5801
	Interference Check Solution AB	K (766.491 nm)	0.0857	39.72	-170.7031
	Interference Check Solution AB	Mg (279.078 nm)	270.6094 o	0.19	821061.1595
	Interference Check Solution AB	Mn (257.610 nm)	0.4995	0.12	166044.2921
	Interference Check Solution AB	Mo (202.032 nm)	-0.0008 u	66.47	-13.7837
	Interference Check Solution AB	Na (588.995 nm)	-0.0133 u	19.35	-11128.3409
	Interference Check Solution AB	Ni (230.299 nm)	1.0086	0.12	12456.6401
	Interference Check Solution AB	Pb (220.353 nm)	0.0511	4.09	297.3355
	Interference Check Solution AB	Sb (217.582 nm)	0.6169	0.39	1462.9330
	Interference Check Solution AB	Se (196.026 nm)	0.0406	16.79	32.5419
	Interference Check Solution AB	Sn (189.925 nm)	0.0044	5.66	20.1895
	Interference Check Solution AB	Sr (216.596 nm)	0.0098	4.87	153.1265
	Interference Check Solution AB	Ti (336.122 nm)	0.0028	15.59	157.6328
	Interference Check Solution AB	Tl (190.794 nm)	0.0995	1.16	105.8015
	Interference Check Solution AB	V (292.401 nm)	0.5163	0.18	20456.8297
	Interference Check Solution AB	Y (360.074 nm)	0.87	0.33	414693.16
	Interference Check Solution AB	Y_R (360.074 nm)	0.87	0.33	414460.03
	Interference Check Solution AB	Zn (213.857 nm)	1.0368	0.08	57284.1372
2/23/2024 19:03:50	Continuing Calibration Verification1	Ag (328.068 nm)	0.5271	0.03	30816.3562
	Continuing Calibration Verification1	Al (237.312 nm)	10.1853	0.15	25775.5219
	Continuing Calibration Verification1	As (188.980 nm)	0.9854	0.16	1747.2937
	Continuing Calibration Verification1	B (249.772 nm)	2.4182	0.15	82052.7725
	Continuing Calibration Verification1	Ba (230.424 nm)	10.3492	0.26	511789.6336
	Continuing Calibration Verification1	Be (313.107 nm)	0.2397	0.15	260019.2568
	Continuing Calibration Verification1	Ca (317.933 nm)	26.1266	0.18	1018561.7469
	Continuing Calibration Verification1	Cd (214.439 nm)	0.5115	0.09	33344.0145
	Continuing Calibration Verification1	Co (230.786 nm)	2.5707	0.18	40843.1278
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5292	0.16	22897.5312
	Continuing Calibration Verification1	Cu (327.395 nm)	1.2561	0.18	52367.8719
	Continuing Calibration Verification1	Fe (234.350 nm)	5.1319	0.18	112283.0441
	Continuing Calibration Verification1	K (766.491 nm)	25.0787	0.03	24901.2975
	Continuing Calibration Verification1	Mg (279.078 nm)	25.7450	0.07	78089.5141
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7554	0.16	251109.5763
	Continuing Calibration Verification1	Mo (202.032 nm)	2.5400	0.61	20277.1074
	Continuing Calibration Verification1	Na (588.995 nm)	25.6742	0.08	281609.8992
	Continuing Calibration Verification1	Ni (230.299 nm)	2.1236	0.03	26147.4409
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5105	0.31	2825.8264
	Continuing Calibration Verification1	Sb (217.582 nm)	4.9758	0.05	11778.3386
	Continuing Calibration Verification1	Se (196.026 nm)	0.4795	0.64	362.4009
	Continuing Calibration Verification1	Sn (189.925 nm)	5.1029	0.09	15210.9030
	Continuing Calibration Verification1	Sr (216.596 nm)	2.5240	0.25	50137.8832
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5349	0.10	322775.1985
	Continuing Calibration Verification1	Tl (190.794 nm)	1.0071	0.36	1077.4434
	Continuing Calibration Verification1	V (292.401 nm)	2.5496	0.15	101217.2181
	Continuing Calibration Verification1	Y (360.074 nm)	0.95	0.39	453372.51

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.95	0.39	453147.51
	Continuing Calibration Verification1	Zn (213.857 nm)	1.0031	0.35	55420.2742
2/23/2024 19:07:04	Continuing Calibration Blank1	Ag (328.068 nm)	-0.0002 u	> 100.00	-260.7102
	Continuing Calibration Blank1	Al (237.312 nm)	0.0003 u	> 100.00	66.2490
	Continuing Calibration Blank1	As (188.980 nm)	0.0017 u	> 100.00	-11.8626
	Continuing Calibration Blank1	B (249.772 nm)	0.0014	19.37	85.6432
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0001 u	> 100.00	1.8825
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000	38.45	-190.0917
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0059	2.33	2842.1144
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000 u	> 100.00	-5.5199
	Continuing Calibration Blank1	Co (230.786 nm)	-0.0001 u	> 100.00	53.6481
	Continuing Calibration Blank1	Cr (267.716 nm)	-0.0002 u	71.06	-21.4848
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0000 u	> 100.00	32.3360
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0061	21.74	325.9398
	Continuing Calibration Blank1	K (766.491 nm)	0.0726	42.66	-183.8509
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0001 u	> 100.00	-26.1892
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0000 u	> 100.00	-6.1177
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0063	9.31	43.2187
	Continuing Calibration Blank1	Na (588.995 nm)	0.0524	8.78	-10379.1040
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0000 u	> 100.00	71.8859
	Continuing Calibration Blank1	Pb (220.353 nm)	-0.0004 u	> 100.00	13.4873
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0087	6.84	23.5442
	Continuing Calibration Blank1	Se (196.026 nm)	-0.0016 u	> 100.00	0.8053
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0018	43.25	12.5917
	Continuing Calibration Blank1	Sr (216.596 nm)	-0.0001 u	70.88	-44.6044
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0070	27.49	699.7269
	Continuing Calibration Blank1	Tl (190.794 nm)	-0.0005 u	> 100.00	-1.3337
	Continuing Calibration Blank1	V (292.401 nm)	-0.0001 u	80.10	-54.4284
	Continuing Calibration Blank1	Y (360.074 nm)	1.00	0.22	475771.15
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.00	0.22	475551.57
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0001	4.55	-34.7342
2/23/2024 19:10:18	PBT-434385	Ag (328.068 nm)	-0.0003 u	33.63	-270.1848
	PBT-434385	Al (237.312 nm)	0.0009 u	> 100.00	67.6999
	PBT-434385	As (188.980 nm)	0.0016	81.03	-12.1477
	PBT-434385	B (249.772 nm)	0.0022	1.91	111.8084
	PBT-434385	Ba (230.424 nm)	0.0001	12.23	-1.2522
	PBT-434385	Be (313.107 nm)	0.0000	40.55	-188.9883
	PBT-434385	Ca (317.933 nm)	0.0199	0.42	3385.3608
	PBT-434385	Cd (214.439 nm)	0.0000 u	> 100.00	-6.9993
	PBT-434385	Co (230.786 nm)	-0.0002 u	80.20	52.9840
	PBT-434385	Cr (267.716 nm)	0.0000 u	> 100.00	-12.6847
	PBT-434385	Cu (327.395 nm)	-0.0001 u	> 100.00	29.2524
	PBT-434385	Fe (234.350 nm)	0.0159	3.44	538.8314
	PBT-434385	K (766.491 nm)	0.2295	25.34	-26.4809
	PBT-434385	Mg (279.078 nm)	0.0012	97.63	-22.7395
	PBT-434385	Mn (257.610 nm)	0.0001	1.59	19.5954
	PBT-434385	Mo (202.032 nm)	0.0020	13.09	8.3158
	PBT-434385	Na (588.995 nm)	0.2012	13.67	-8683.8242
	PBT-434385	Ni (230.299 nm)	-0.0010 u	20.05	58.9525
	PBT-434385	Pb (220.353 nm)	-0.0005 u	> 100.00	12.8763
	PBT-434385	Sb (217.582 nm)	0.0308	16.93	75.7697
	PBT-434385	Se (196.026 nm)	-0.0027 u	> 100.00	0.0047
	PBT-434385	Sn (189.925 nm)	0.0026	24.89	14.8619
	PBT-434385	Sr (216.596 nm)	-0.0001 u	> 100.00	-43.9981
	PBT-434385	Ti (336.122 nm)	0.0036	36.42	267.6782
	PBT-434385	Tl (190.794 nm)	-0.0016 u	> 100.00	-2.4466
	PBT-434385	V (292.401 nm)	-0.0002 u	54.11	-56.5422

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	PBT-434385	Y (360.074 nm)	0.99	0.58	472089.44
	PBT-434385	Y_R (360.074 nm)	0.99	0.58	471869.59
	PBT-434385	Zn (213.857 nm)	0.0002	40.31	-27.5362
2/23/2024 19:13:32	LCST-434385	Ag (328.068 nm)	0.2712	0.15	15737.4568
	LCST-434385	Al (237.312 nm)	0.0196	2.79	114.8778
	LCST-434385	As (188.980 nm)	0.9772	0.15	1732.6491
	LCST-434385	B (249.772 nm)	0.0021	5.39	109.1032
	LCST-434385	Ba (230.424 nm)	2.1026	0.24	103973.8609
	LCST-434385	Be (313.107 nm)	0.0000	46.73	-182.1362
	LCST-434385	Ca (317.933 nm)	0.0216	0.37	3452.5281
	LCST-434385	Cd (214.439 nm)	0.5301	0.22	34551.9412
	LCST-434385	Co (230.786 nm)	-0.0010 u	20.26	39.3115
	LCST-434385	Cr (267.716 nm)	0.5277	0.19	22833.6129
	LCST-434385	Cu (327.395 nm)	1.0492	0.40	43749.3585
	LCST-434385	Fe (234.350 nm)	0.0158	5.46	536.9836
	LCST-434385	K (766.491 nm)	0.2077	11.87	-48.2884
	LCST-434385	Mg (279.078 nm)	0.0014	75.56	-22.1754
	LCST-434385	Mn (257.610 nm)	0.0001	21.56	21.5744
	LCST-434385	Mo (202.032 nm)	0.0010	6.42	0.1875
	LCST-434385	Na (588.995 nm)	0.2101	8.62	-8581.9643
	LCST-434385	Ni (230.299 nm)	1.0936	0.36	13500.7818
	LCST-434385	Pb (220.353 nm)	0.5327	0.07	2947.9023
	LCST-434385	Sb (217.582 nm)	0.0268	3.16	66.3135
	LCST-434385	Se (196.026 nm)	0.9805	0.56	738.9309
	LCST-434385	Sn (189.925 nm)	0.0015	17.67	11.6705
	LCST-434385	Sr (216.596 nm)	0.0001 u	> 100.00	-40.4858
	LCST-434385	Ti (336.122 nm)	0.0015	48.29	-7.4718
	LCST-434385	Tl (190.794 nm)	-0.0016 u	52.96	-2.4789
	LCST-434385	V (292.401 nm)	-0.0001 u	38.56	-55.3316
	LCST-434385	Y (360.074 nm)	0.99	0.51	472824.03
	LCST-434385	Y_R (360.074 nm)	0.99	0.51	472581.32
	LCST-434385	Zn (213.857 nm)	1.0237	0.29	56562.7326
2/23/2024 19:16:46	RQ2401817-01	Ag (328.068 nm)	-0.0006 u	8.23	-287.6681
	RQ2401817-01	Al (237.312 nm)	0.0026	88.26	71.9133
	RQ2401817-01	As (188.980 nm)	0.0088	25.90	0.8451
	RQ2401817-01	B (249.772 nm)	0.0073	2.36	283.6909
	RQ2401817-01	Ba (230.424 nm)	0.0016	4.09	74.1097
	RQ2401817-01	Be (313.107 nm)	0.0000 u	27.45	-215.5551
	RQ2401817-01	Ca (317.933 nm)	0.0207	0.74	3417.5457
	RQ2401817-01	Cd (214.439 nm)	0.0001 u	> 100.00	-4.0218
	RQ2401817-01	Co (230.786 nm)	0.0005	86.00	63.0758
	RQ2401817-01	Cr (267.716 nm)	0.0009	19.08	25.6933
	RQ2401817-01	Cu (327.395 nm)	0.0002	77.24	42.0283
	RQ2401817-01	Fe (234.350 nm)	0.0103	5.54	417.2427
	RQ2401817-01	K (766.491 nm)	6.1470	11.99	5909.7683
	RQ2401817-01	Mg (279.078 nm)	0.0010 u	97.57	-23.4929
	RQ2401817-01	Mn (257.610 nm)	0.0002	6.47	41.8783
	RQ2401817-01	Mo (202.032 nm)	0.0003 u	> 100.00	-5.1282
	RQ2401817-01	Na (588.995 nm)	1100.1431 o	2.00	12526373.6476
	RQ2401817-01	Ni (230.299 nm)	0.0014	5.47	88.8553
	RQ2401817-01	Pb (220.353 nm)	-0.0003 u	> 100.00	14.0154
	RQ2401817-01	Sb (217.582 nm)	0.0293	5.26	72.3444
	RQ2401817-01	Se (196.026 nm)	0.0011 u	> 100.00	2.8321
	RQ2401817-01	Sn (189.925 nm)	0.0035	13.26	17.6583
	RQ2401817-01	Sr (216.596 nm)	-0.0004 u	22.98	-49.2698
	RQ2401817-01	Ti (336.122 nm)	0.0009	48.35	-81.8850
	RQ2401817-01	Tl (190.794 nm)	-0.0040 u	24.11	-5.0264

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	RQ2401817-01	V (292.401 nm)	-0.0002 u	61.88	-58.5268
	RQ2401817-01	Y (360.074 nm)	0.84	0.47	400174.27
	RQ2401817-01	Y_R (360.074 nm)	0.84	0.47	399894.35
	RQ2401817-01	Zn (213.857 nm)	0.0005	10.20	-9.5377
2/23/2024 19:20:01	RQ2401820-01	Ag (328.068 nm)	-0.0002 u	87.36	-263.7864
	RQ2401820-01	Al (237.312 nm)	0.0021	14.53	70.6614
	RQ2401820-01	As (188.980 nm)	0.0026	49.84	-10.2389
	RQ2401820-01	B (249.772 nm)	0.0014	16.64	85.5772
	RQ2401820-01	Ba (230.424 nm)	0.0002	58.78	3.3375
	RQ2401820-01	Be (313.107 nm)	0.0000	57.34	-183.6713
	RQ2401820-01	Ca (317.933 nm)	0.0225	0.66	3487.8925
	RQ2401820-01	Cd (214.439 nm)	0.0000 u	> 100.00	-6.3956
	RQ2401820-01	Co (230.786 nm)	-0.0001 u	> 100.00	53.9010
	RQ2401820-01	Cr (267.716 nm)	0.0003	79.08	-0.4890
	RQ2401820-01	Cu (327.395 nm)	0.0002	12.03	42.7546
	RQ2401820-01	Fe (234.350 nm)	0.0057	4.86	316.1368
	RQ2401820-01	K (766.491 nm)	1.0791	2.97	825.8371
	RQ2401820-01	Mg (279.078 nm)	0.0019	49.76	-20.6863
	RQ2401820-01	Mn (257.610 nm)	0.0001	12.07	19.3386
	RQ2401820-01	Mo (202.032 nm)	0.0003	34.30	-4.7828
	RQ2401820-01	Na (588.995 nm)	1.1961	6.39	2654.3580
	RQ2401820-01	Ni (230.299 nm)	-0.0007 u	45.72	63.1906
	RQ2401820-01	Pb (220.353 nm)	0.0001 u	99.79	16.5939
	RQ2401820-01	Sb (217.582 nm)	0.0269	10.99	66.5959
	RQ2401820-01	Se (196.026 nm)	-0.0031 u	78.80	-0.3186
	RQ2401820-01	Sn (189.925 nm)	0.0014	29.89	11.2051
	RQ2401820-01	Sr (216.596 nm)	0.0000 u	> 100.00	-42.2371
	RQ2401820-01	Ti (336.122 nm)	0.0004	84.58	-144.1583
	RQ2401820-01	Tl (190.794 nm)	-0.0009 u	93.39	-1.7225
	RQ2401820-01	V (292.401 nm)	-0.0003 u	38.36	-62.9095
	RQ2401820-01	Y (360.074 nm)	0.99	0.53	471514.05
	RQ2401820-01	Y_R (360.074 nm)	0.99	0.53	471251.28
	RQ2401820-01	Zn (213.857 nm)	0.0004	13.61	-15.7453
2/23/2024 19:23:15	R2401202-001	Ag (328.068 nm)	-0.0008 u	13.44	-297.7658
	R2401202-001	Al (237.312 nm)	0.3487	1.13	945.7740
	R2401202-001	As (188.980 nm)	0.1567	4.51	265.2258
	R2401202-001	B (249.772 nm)	1.0377	0.20	35230.6177
	R2401202-001	Ba (230.424 nm)	0.0385	0.35	1897.3622
	R2401202-001	Be (313.107 nm)	0.0000	4.76	-169.0950
	R2401202-001	Ca (317.933 nm)	8.5324	0.73	334400.5920
	R2401202-001	Cd (214.439 nm)	0.0006	7.42	29.4077
	R2401202-001	Co (230.786 nm)	0.0064	1.62	158.0028
	R2401202-001	Cr (267.716 nm)	0.0530	0.38	2278.4287
	R2401202-001	Cu (327.395 nm)	0.3478	0.30	14526.4291
	R2401202-001	Fe (234.350 nm)	1.4508	0.41	31881.1655
	R2401202-001	K (766.491 nm)	3098.7011 o	1.97	3108236.1981
	R2401202-001	Mg (279.078 nm)	0.6724	1.09	2013.6617
	R2401202-001	Mn (257.610 nm)	0.2462	0.21	81816.7836
	R2401202-001	Mo (202.032 nm)	0.1766	0.95	1402.4910
	R2401202-001	Na (588.995 nm)	171.1902 o	0.36	1939925.9788
	R2401202-001	Ni (230.299 nm)	0.1968	0.77	2487.8418
	R2401202-001	Pb (220.353 nm)	0.0508	3.59	295.1839
	R2401202-001	Sb (217.582 nm)	2.3900	16.37	5658.9359
	R2401202-001	Se (196.026 nm)	-0.2846 u	4.63	-211.8609
	R2401202-001	Sn (189.925 nm)	0.8381	0.14	2504.0577
	R2401202-001	Sr (216.596 nm)	0.0243	0.64	440.6284
	R2401202-001	Ti (336.122 nm)	0.0042	9.90	341.9736

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401202-001	Tl (190.794 nm)	-0.4326 u	1.42	-463.9059
	R2401202-001	V (292.401 nm)	-0.0006 u	79.30	-72.9630
	R2401202-001	Y (360.074 nm)	0.64	0.66	303465.40
	R2401202-001	Y_R (360.074 nm)	0.64	0.67	303223.93
	R2401202-001	Zn (213.857 nm)	0.1141	0.56	6266.4222
2/23/2024 19:26:28	R2401202-002	Ag (328.068 nm)	-0.0007 u	42.32	-291.0542
	R2401202-002	Al (237.312 nm)	0.0861	1.61	282.8200
	R2401202-002	As (188.980 nm)	0.1171	2.60	194.3845
	R2401202-002	B (249.772 nm)	0.9593	0.24	32573.1612
	R2401202-002	Ba (230.424 nm)	0.0112	1.54	550.5114
	R2401202-002	Be (313.107 nm)	0.0000	74.54	-194.7665
	R2401202-002	Ca (317.933 nm)	5.2434	0.63	206505.1582
	R2401202-002	Cd (214.439 nm)	0.0004	24.17	17.1162
	R2401202-002	Co (230.786 nm)	0.0040	7.35	119.7670
	R2401202-002	Cr (267.716 nm)	0.0385	0.19	1652.2895
	R2401202-002	Cu (327.395 nm)	0.0597	0.71	2522.2299
	R2401202-002	Fe (234.350 nm)	0.4323	0.33	9634.4751
	R2401202-002	K (766.491 nm)	2587.8577 o	0.38	2595778.5481
	R2401202-002	Mg (279.078 nm)	1.0389	0.26	3125.8244
	R2401202-002	Mn (257.610 nm)	0.0163	0.03	5394.6279
	R2401202-002	Mo (202.032 nm)	0.1381	1.15	1095.5142
	R2401202-002	Na (588.995 nm)	67.8401 o	0.17	762137.0973
	R2401202-002	Ni (230.299 nm)	0.1548	1.33	1972.5248
	R2401202-002	Pb (220.353 nm)	0.0302	4.36	181.8808
	R2401202-002	Sb (217.582 nm)	1.2305	4.63	2914.9769
	R2401202-002	Se (196.026 nm)	-0.2293 u	1.13	-170.3595
	R2401202-002	Sn (189.925 nm)	0.5136	0.63	1537.4561
	R2401202-002	Sr (216.596 nm)	0.0184	1.20	324.7394
	R2401202-002	Ti (336.122 nm)	0.0022	19.53	85.2325
	R2401202-002	Tl (190.794 nm)	-0.3065 u	1.00	-328.8711
	R2401202-002	V (292.401 nm)	-0.0007 u	43.82	-78.7819
	R2401202-002	Y (360.074 nm)	0.69	0.38	329378.78
	R2401202-002	Y_R (360.074 nm)	0.69	0.38	329126.33
	R2401202-002	Zn (213.857 nm)	0.0893	0.57	4895.2831
2/23/2024 19:29:42	R2401278-001	Ag (328.068 nm)	-0.0005 u	42.02	-278.6140
	R2401278-001	Al (237.312 nm)	0.9965	0.16	2580.7461
	R2401278-001	As (188.980 nm)	0.0148	9.78	11.5203
	R2401278-001	B (249.772 nm)	0.4996	0.25	16980.1133
	R2401278-001	Ba (230.424 nm)	1.2197	0.10	60311.8902
	R2401278-001	Be (313.107 nm)	0.0005	2.38	348.3093
	R2401278-001	Ca (317.933 nm)	260.4471 o	0.25	10130270.6356
	R2401278-001	Cd (214.439 nm)	0.0100	0.78	642.0459
	R2401278-001	Co (230.786 nm)	0.0332	0.44	582.8517
	R2401278-001	Cr (267.716 nm)	-0.0004 u	82.54	-29.3737
	R2401278-001	Cu (327.395 nm)	0.0101	2.57	455.5326
	R2401278-001	Fe (234.350 nm)	2.7743	0.26	60788.1675
	R2401278-001	K (766.491 nm)	48.9306	9.27	48828.4810
	R2401278-001	Mg (279.078 nm)	7.0236	0.25	21284.5121
	R2401278-001	Mn (257.610 nm)	8.9950 o	0.34	2990148.3313
	R2401278-001	Mo (202.032 nm)	0.0014	29.04	3.8119
	R2401278-001	Na (588.995 nm)	1067.0810 o	1.69	12149594.9597
	R2401278-001	Ni (230.299 nm)	0.2150	0.27	2712.1114
	R2401278-001	Pb (220.353 nm)	0.1855	0.11	1036.7832
	R2401278-001	Sb (217.582 nm)	0.0778	18.89	186.9987
	R2401278-001	Se (196.026 nm)	0.0012 u	> 100.00	2.8891
	R2401278-001	Sn (189.925 nm)	0.0052	5.16	22.6280
	R2401278-001	Sr (216.596 nm)	0.8886	0.08	17624.8802

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401278-001	Ti (336.122 nm)	0.0122	3.79	1354.3831
	R2401278-001	Tl (190.794 nm)	0.0021	20.43	1.5140
	R2401278-001	V (292.401 nm)	0.0005	20.80	-28.1285
	R2401278-001	Y (360.074 nm)	0.85	0.44	404173.05
	R2401278-001	Y_R (360.074 nm)	0.85	0.44	403897.08
	R2401278-001	Zn (213.857 nm)	1.5220	0.17	84110.4285
2/23/2024 19:32:56	R2401278-001S	Ag (328.068 nm)	0.2896	0.04	16820.2346
	R2401278-001S	Al (237.312 nm)	1.2515	0.80	3224.4429
	R2401278-001S	As (188.980 nm)	1.1486	0.07	2039.2385
	R2401278-001S	B (249.772 nm)	0.5749	0.17	19534.2261
	R2401278-001S	Ba (230.424 nm)	3.4579	0.22	170995.5245
	R2401278-001S	Be (313.107 nm)	0.0006	1.05	436.4782
	R2401278-001S	Ca (317.933 nm)	294.4116 o	0.23	11451003.1568
	R2401278-001S	Cd (214.439 nm)	0.5502	0.10	35864.8061
	R2401278-001S	Co (230.786 nm)	0.0364	1.14	633.3789
	R2401278-001S	Cr (267.716 nm)	0.5182	0.33	22418.8078
	R2401278-001S	Cu (327.395 nm)	1.1284	0.27	47047.6607
	R2401278-001S	Fe (234.350 nm)	3.1549	0.21	69101.4783
	R2401278-001S	K (766.491 nm)	33.7055	4.03	33555.3522
	R2401278-001S	Mg (279.078 nm)	7.9851	0.26	24201.9439
	R2401278-001S	Mn (257.610 nm)	10.3047 o	0.28	3425520.9474
	R2401278-001S	Mo (202.032 nm)	0.0018	18.70	7.1430
	R2401278-001S	Na (588.995 nm)	1124.5565 o	1.73	12804592.3958
	R2401278-001S	Ni (230.299 nm)	1.2980	0.24	16010.1465
	R2401278-001S	Pb (220.353 nm)	0.7187	0.17	3972.2270
	R2401278-001S	Sb (217.582 nm)	0.0392	8.61	95.6102
	R2401278-001S	Se (196.026 nm)	1.1484 o	0.97	865.1436
	R2401278-001S	Sn (189.925 nm)	0.0039	34.41	18.6223
	R2401278-001S	Sr (216.596 nm)	1.0099	0.21	20035.4713
	R2401278-001S	Ti (336.122 nm)	0.0197	4.72	2308.4871
	R2401278-001S	Tl (190.794 nm)	0.0013 u	> 100.00	0.6044
	R2401278-001S	V (292.401 nm)	0.0008	18.96	-19.0149
	R2401278-001S	Y (360.074 nm)	0.83	0.54	397787.90
	R2401278-001S	Y_R (360.074 nm)	0.83	0.54	397512.23
	R2401278-001S	Zn (213.857 nm)	2.8600 o	0.47	158086.8207
2/23/2024 19:36:09	R2401278-001SD	Ag (328.068 nm)	0.2749	0.29	15953.5712
	R2401278-001SD	Al (237.312 nm)	1.1256	0.34	2906.6995
	R2401278-001SD	As (188.980 nm)	1.0896	0.67	1933.7199
	R2401278-001SD	B (249.772 nm)	0.5443	0.30	18496.0338
	R2401278-001SD	Ba (230.424 nm)	3.2812	0.30	162259.7285
	R2401278-001SD	Be (313.107 nm)	0.0005	2.24	389.7347
	R2401278-001SD	Ca (317.933 nm)	279.6182 o	0.31	10875755.4311
	R2401278-001SD	Cd (214.439 nm)	0.5254	0.31	34250.4149
	R2401278-001SD	Co (230.786 nm)	0.0351	1.05	612.5186
	R2401278-001SD	Cr (267.716 nm)	0.4950	0.28	21416.4625
	R2401278-001SD	Cu (327.395 nm)	1.0682	0.13	44542.9440
	R2401278-001SD	Fe (234.350 nm)	2.9917	0.31	65536.2289
	R2401278-001SD	K (766.491 nm)	24.4616	1.33	24282.1969
	R2401278-001SD	Mg (279.078 nm)	7.5759	0.31	22960.2876
	R2401278-001SD	Mn (257.610 nm)	9.7951 o	0.36	3256108.0657
	R2401278-001SD	Mo (202.032 nm)	0.0013	36.95	2.6387
	R2401278-001SD	Na (588.995 nm)	1062.9153 o	1.25	12102122.5944
	R2401278-001SD	Ni (230.299 nm)	1.2388	0.36	15283.2394
	R2401278-001SD	Pb (220.353 nm)	0.6873	0.27	3799.0129
	R2401278-001SD	Sb (217.582 nm)	0.0267	2.79	66.0913
	R2401278-001SD	Se (196.026 nm)	1.0866	0.42	818.7106
	R2401278-001SD	Sn (189.925 nm)	0.0031	15.18	16.2576

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401278-001SD	Sr (216.596 nm)	0.9560	0.26	18964.0005
	R2401278-001SD	Ti (336.122 nm)	0.0142	4.39	1611.6856
	R2401278-001SD	Tl (190.794 nm)	0.0024 u	> 100.00	1.7912
	R2401278-001SD	V (292.401 nm)	0.0006	31.09	-27.8595
	R2401278-001SD	Y (360.074 nm)	0.84	0.38	399403.39
	R2401278-001SD	Y_R (360.074 nm)	0.84	0.38	399094.71
	R2401278-001SD	Zn (213.857 nm)	2.7043 o	0.27	149479.5048
2/23/2024 19:39:23	R2401278-001A	Ag (328.068 nm)	0.2827	0.19	16410.6697
	R2401278-001A	Al (237.312 nm)	1.0511	0.39	2718.6046
	R2401278-001A	As (188.980 nm)	1.1194	0.31	1987.1060
	R2401278-001A	B (249.772 nm)	0.5057	0.18	17188.9399
	R2401278-001A	Ba (230.424 nm)	3.2678	0.34	161594.0363
	R2401278-001A	Be (313.107 nm)	0.0005	2.11	342.4689
	R2401278-001A	Ca (317.933 nm)	260.5789 o	0.28	10135396.2284
	R2401278-001A	Cd (214.439 nm)	0.5430	0.23	35397.6312
	R2401278-001A	Co (230.786 nm)	0.0320	0.79	563.0952
	R2401278-001A	Cr (267.716 nm)	0.5139	0.16	22233.5400
	R2401278-001A	Cu (327.395 nm)	1.1018	0.30	45941.6791
	R2401278-001A	Fe (234.350 nm)	2.7890	0.26	61109.3155
	R2401278-001A	K (766.491 nm)	19.3499	1.17	19154.3429
	R2401278-001A	Mg (279.078 nm)	7.0537	0.12	21376.0313
	R2401278-001A	Mn (257.610 nm)	9.1204 o	0.32	3031815.8316
	R2401278-001A	Mo (202.032 nm)	0.0012	19.51	2.1765
	R2401278-001A	Na (588.995 nm)	999.7497 o	1.28	11382280.0086
	R2401278-001A	Ni (230.299 nm)	1.2600	0.23	15542.9299
	R2401278-001A	Pb (220.353 nm)	0.6918	0.11	3823.9536
	R2401278-001A	Sb (217.582 nm)	0.0200	7.69	50.2093
	R2401278-001A	Se (196.026 nm)	1.1327 o	0.37	853.3421
	R2401278-001A	Sn (189.925 nm)	0.0024	13.93	14.4280
	R2401278-001A	Sr (216.596 nm)	0.8862	0.12	17577.5002
	R2401278-001A	Ti (336.122 nm)	0.0142	3.21	1617.4131
	R2401278-001A	Tl (190.794 nm)	0.0018 u	> 100.00	1.1810
	R2401278-001A	V (292.401 nm)	0.0005	3.11	-29.2781
	R2401278-001A	Y (360.074 nm)	0.85	0.53	402983.59
	R2401278-001A	Y_R (360.074 nm)	0.84	0.53	402688.02
	R2401278-001A	Zn (213.857 nm)	2.6308 o	0.25	145416.9350
2/23/2024 19:42:36	Continuing Calibration Verification1	Ag (328.068 nm)	0.5274	0.02	30837.4886
	Continuing Calibration Verification1	Al (237.312 nm)	10.0835	0.10	25518.5883
	Continuing Calibration Verification1	As (188.980 nm)	1.0138	0.15	1798.1499
	Continuing Calibration Verification1	B (249.772 nm)	2.3956	0.15	81285.9953
	Continuing Calibration Verification1	Ba (230.424 nm)	10.5018	0.07	519334.7946
	Continuing Calibration Verification1	Be (313.107 nm)	0.2450	0.12	265747.0829
	Continuing Calibration Verification1	Ca (317.933 nm)	26.8499	0.09	1046687.6112
	Continuing Calibration Verification1	Cd (214.439 nm)	0.5303	0.10	34565.6236
	Continuing Calibration Verification1	Co (230.786 nm)	2.6397	0.05	41938.1783
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5397	0.11	23353.5739
	Continuing Calibration Verification1	Cu (327.395 nm)	1.2566	0.15	52391.6340
	Continuing Calibration Verification1	Fe (234.350 nm)	5.1973	0.16	113712.1941
	Continuing Calibration Verification1	K (766.491 nm)	26.5004	0.39	26327.4745
	Continuing Calibration Verification1	Mg (279.078 nm)	26.5391	0.15	80498.7502
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7650	0.13	254307.3641
	Continuing Calibration Verification1	Mo (202.032 nm)	2.5876	0.70	20657.2503
	Continuing Calibration Verification1	Na (588.995 nm)	26.1308	0.43	286813.4474
	Continuing Calibration Verification1	Ni (230.299 nm)	2.1903	0.12	26966.6912
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5242	0.36	2901.3888
	Continuing Calibration Verification1	Sb (217.582 nm)	5.0004	0.13	11836.6512
	Continuing Calibration Verification1	Se (196.026 nm)	0.4910	0.31	371.0353

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification1	Sn (189.925 nm)	5.2633	0.18	15688.6668
	Continuing Calibration Verification1	Sr (216.596 nm)	2.5843	0.27	51337.2864
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5490	0.09	324577.7151
	Continuing Calibration Verification1	Tl (190.794 nm)	1.0256	0.66	1097.3451
	Continuing Calibration Verification1	V (292.401 nm)	2.5853	0.14	102635.3928
	Continuing Calibration Verification1	Y (360.074 nm)	0.97	0.43	462844.65
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.97	0.43	462570.95
	Continuing Calibration Verification1	Zn (213.857 nm)	1.0205	0.23	56381.5957
2/23/2024 19:45:50	Continuing Calibration Blank1	Ag (328.068 nm)	-0.0005 u	41.07	-280.9828
	Continuing Calibration Blank1	Al (237.312 nm)	-0.0004 u	> 100.00	64.4231
	Continuing Calibration Blank1	As (188.980 nm)	0.0028	73.83	-10.0354
	Continuing Calibration Blank1	B (249.772 nm)	0.0016	26.38	91.4328
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0002	28.46	5.0498
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000	63.67	-185.4804
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0073	2.46	2895.0821
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000 u	> 100.00	-6.3965
	Continuing Calibration Blank1	Co (230.786 nm)	0.0001	> 100.00	58.0865
	Continuing Calibration Blank1	Cr (267.716 nm)	-0.0002 u	71.01	-21.5877
	Continuing Calibration Blank1	Cu (327.395 nm)	-0.0001 u	> 100.00	30.8545
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0055	22.61	312.2231
	Continuing Calibration Blank1	K (766.491 nm)	1.3923 Z	2.85	1140.0053 Z
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0002 u	> 100.00	-25.9401
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0000	45.77	-1.1049
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0067	6.04	45.8258
	Continuing Calibration Blank1	Na (588.995 nm)	0.9415	2.45	-246.5624
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0000 u	> 100.00	71.5842
	Continuing Calibration Blank1	Pb (220.353 nm)	-0.0007 u	87.80	11.9697
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0123 Z	10.50	31.9605 Z
	Continuing Calibration Blank1	Se (196.026 nm)	-0.0021 u	> 100.00	0.4701
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0021	22.85	13.4148
	Continuing Calibration Blank1	Sr (216.596 nm)	-0.0001 u	> 100.00	-44.8895
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0080	26.06	825.0465
	Continuing Calibration Blank1	Tl (190.794 nm)	-0.0010 u	> 100.00	-1.8597
	Continuing Calibration Blank1	V (292.401 nm)	-0.0003 u	28.50	-60.5882
	Continuing Calibration Blank1	Y (360.074 nm)	1.02	0.20	488149.79
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.02	0.20	487866.45
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0001	42.97	-32.5826
2/23/2024 19:49:03	R2401278-001L 5X	Ag (328.068 nm)	-0.0004 u	26.74	-275.8717
	R2401278-001L 5X	Al (237.312 nm)	0.1844	3.90	530.9936
	R2401278-001L 5X	As (188.980 nm)	0.0036	16.46	-8.4684
	R2401278-001L 5X	B (249.772 nm)	0.0977	3.11	3349.1398
	R2401278-001L 5X	Ba (230.424 nm)	0.2444	3.03	12078.7941
	R2401278-001L 5X	Be (313.107 nm)	0.0001	14.83	-81.3798
	R2401278-001L 5X	Ca (317.933 nm)	54.3838 o	2.96	2117362.7725
	R2401278-001L 5X	Cd (214.439 nm)	0.0020	3.94	121.7839
	R2401278-001L 5X	Co (230.786 nm)	0.0072	8.21	170.1732
	R2401278-001L 5X	Cr (267.716 nm)	-0.0007 u	15.15	-45.5183
	R2401278-001L 5X	Cu (327.395 nm)	0.0017	21.93	102.4527
	R2401278-001L 5X	Fe (234.350 nm)	0.5537	2.84	12286.6856
	R2401278-001L 5X	K (766.491 nm)	3.0579	3.73	2810.8963
	R2401278-001L 5X	Mg (279.078 nm)	1.4353	3.12	4328.6599
	R2401278-001L 5X	Mn (257.610 nm)	1.8372 o	2.89	610702.4385
	R2401278-001L 5X	Mo (202.032 nm)	0.0015	28.67	4.7001
	R2401278-001L 5X	Na (588.995 nm)	242.8993 o	3.21	2757130.0568
	R2401278-001L 5X	Ni (230.299 nm)	0.0441	2.82	612.8473
	R2401278-001L 5X	Pb (220.353 nm)	0.0377	2.61	223.1654
	R2401278-001L 5X	Sb (217.582 nm)	0.0068	17.61	18.9368

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401278-001L 5X	Se (196.026 nm)	-0.0009 u	> 100.00	1.3223
	R2401278-001L 5X	Sn (189.925 nm)	0.0016	24.50	11.7918
	R2401278-001L 5X	Sr (216.596 nm)	0.1773	3.12	3482.5444
	R2401278-001L 5X	Ti (336.122 nm)	0.0047	19.26	408.1700
	R2401278-001L 5X	Tl (190.794 nm)	0.0012 u	> 100.00	0.4830
	R2401278-001L 5X	V (292.401 nm)	-0.0002 u	84.05	-58.4249
	R2401278-001L 5X	Y (360.074 nm)	0.95	0.51	450708.24
	R2401278-001L 5X	Y_R (360.074 nm)	0.94	0.51	450406.38
	R2401278-001L 5X	Zn (213.857 nm)	0.2982	2.93	16450.4147
2/23/2024 19:52:17	Continuing Calibration Verification1	Ag (328.068 nm)	0.5280	0.11	30873.6269
	Continuing Calibration Verification1	Al (237.312 nm)	10.1091	0.09	25583.0981
	Continuing Calibration Verification1	As (188.980 nm)	1.0078	0.38	1787.5057
	Continuing Calibration Verification1	B (249.772 nm)	2.4099	0.11	81769.8451
	Continuing Calibration Verification1	Ba (230.424 nm)	10.5019	0.34	519344.3974
	Continuing Calibration Verification1	Be (313.107 nm)	0.2444	0.14	265118.6991
	Continuing Calibration Verification1	Ca (317.933 nm)	26.8260	0.21	1045757.9810
	Continuing Calibration Verification1	Cd (214.439 nm)	0.5304	0.20	34573.2625
	Continuing Calibration Verification1	Co (230.786 nm)	2.6359	0.38	41877.7371
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5423	0.19	23465.7381
	Continuing Calibration Verification1	Cu (327.395 nm)	1.2518	0.20	52189.2651
	Continuing Calibration Verification1	Fe (234.350 nm)	5.2080	0.26	113945.4224
	Continuing Calibration Verification1	K (766.491 nm)	25.6959	0.11	25520.4513
	Continuing Calibration Verification1	Mg (279.078 nm)	26.5852	0.14	80638.8358
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7667	0.15	254861.1751
	Continuing Calibration Verification1	Mo (202.032 nm)	2.5848	0.71	20635.3695
	Continuing Calibration Verification1	Na (588.995 nm)	25.7314	0.16	282261.8176
	Continuing Calibration Verification1	Ni (230.299 nm)	2.1899	0.17	26961.3852
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5245	0.28	2903.1107
	Continuing Calibration Verification1	Sb (217.582 nm)	5.0096	0.09	11858.3983
	Continuing Calibration Verification1	Se (196.026 nm)	0.4907	0.13	370.8489
	Continuing Calibration Verification1	Sn (189.925 nm)	5.2550	0.21	15663.9627
	Continuing Calibration Verification1	Sr (216.596 nm)	2.5864	0.17	51378.9839
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5533	0.16	325119.2640
	Continuing Calibration Verification1	Tl (190.794 nm)	1.0211	0.40	1092.4455
	Continuing Calibration Verification1	V (292.401 nm)	2.5867	0.11	102691.0023
	Continuing Calibration Verification1	Y (360.074 nm)	0.97	0.50	461959.49
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.97	0.50	461650.27
	Continuing Calibration Verification1	Zn (213.857 nm)	1.0187	0.13	56283.0500
2/23/2024 19:55:31	Continuing Calibration Blank1	Ag (328.068 nm)	-0.0003 u	38.76	-269.2074
	Continuing Calibration Blank1	Al (237.312 nm)	0.0006 u	> 100.00	67.0535
	Continuing Calibration Blank1	As (188.980 nm)	0.0021	25.79	-11.2610
	Continuing Calibration Blank1	B (249.772 nm)	0.0017	8.65	92.7470
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0003	17.70	9.5654
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000	62.13	-180.1376
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0073	2.94	2896.5677
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000	39.83	-5.2125
	Continuing Calibration Blank1	Co (230.786 nm)	0.0004	32.86	61.5067
	Continuing Calibration Blank1	Cr (267.716 nm)	-0.0001 u	> 100.00	-18.5016
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0000 u	> 100.00	35.1464
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0051	21.89	303.4570
	Continuing Calibration Blank1	K (766.491 nm)	0.9319	5.23	678.2025
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0016	57.42	-21.5177
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0000	20.92	-0.3651
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0071	8.30	48.8808
	Continuing Calibration Blank1	Na (588.995 nm)	0.5830	0.79	-4332.4677
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0002	85.45	74.0524
	Continuing Calibration Blank1	Pb (220.353 nm)	-0.0002 u	> 100.00	14.6605

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0117 Z 0.006 U	11.85	30.5886 Z
	Continuing Calibration Blank1	Se (196.026 nm)	-0.0022 u	81.40	0.3584
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0018	21.73	12.4787
	Continuing Calibration Blank1	Sr (216.596 nm)	-0.0004 u	25.94	-49.1582
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0080	28.19	819.6744
	Continuing Calibration Blank1	Tl (190.794 nm)	-0.0016 u	93.54	-2.4784
	Continuing Calibration Blank1	V (292.401 nm)	-0.0002 u	19.90	-59.7151
	Continuing Calibration Blank1	Y (360.074 nm)	1.02	0.22	487295.75
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.02	0.22	487001.01
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0001	84.66	-33.4327
2/23/2024 19:58:45	Contract Required Detection Limit	Ag (328.068 nm)	0.0097	1.47	322.3270
	Contract Required Detection Limit	Al (237.312 nm)	0.1978	1.45	564.8369
	Contract Required Detection Limit	As (188.980 nm)	0.0211	12.31	22.8681
	Contract Required Detection Limit	B (249.772 nm)	0.1899	0.15	6477.6052
	Contract Required Detection Limit	Ba (230.424 nm)	0.2106	0.18	10409.1725
	Contract Required Detection Limit	Be (313.107 nm)	0.0049	0.37	5138.5494
	Contract Required Detection Limit	Ca (317.933 nm)	1.0609	0.23	43867.8064
	Contract Required Detection Limit	Cd (214.439 nm)	0.0107	0.55	692.0385
	Contract Required Detection Limit	Co (230.786 nm)	0.0532	0.63	899.3263
	Contract Required Detection Limit	Cr (267.716 nm)	0.0104	0.63	436.8826
	Contract Required Detection Limit	Cu (327.395 nm)	0.0250	1.27	1073.6083
	Contract Required Detection Limit	Fe (234.350 nm)	0.1137	1.07	2675.7989
	Contract Required Detection Limit	K (766.491 nm)	1.6963 R	1.41	1444.9787 R
	Contract Required Detection Limit	Mg (279.078 nm)	1.0320	0.26	3104.7985
	Contract Required Detection Limit	Mn (257.610 nm)	0.0156	0.11	5185.2650
	Contract Required Detection Limit	Mo (202.032 nm)	0.0256	1.48	197.1891
	Contract Required Detection Limit	Na (588.995 nm)	1.4208 R	0.39	5215.5073 R
	Contract Required Detection Limit	Ni (230.299 nm)	0.0414	0.81	579.3982
	Contract Required Detection Limit	Pb (220.353 nm)	0.0106	4.73	74.3797
	Contract Required Detection Limit	Sb (217.582 nm)	0.0634	0.70	153.0038
	Contract Required Detection Limit	Se (196.026 nm)	0.0091	17.41	8.8610
	Contract Required Detection Limit	Sn (189.925 nm)	0.5225	0.69	1563.9306
	Contract Required Detection Limit	Sr (216.596 nm)	0.1035	0.75	2016.2894
	Contract Required Detection Limit	Ti (336.122 nm)	0.0523	2.22	6467.2552
	Contract Required Detection Limit	Tl (190.794 nm)	0.0196	8.88	20.2124
	Contract Required Detection Limit	V (292.401 nm)	0.0501	0.47	1941.6011
	Contract Required Detection Limit	Y (360.074 nm)	1.01	0.60	479975.48
	Contract Required Detection Limit	Y_R (360.074 nm)	1.01	0.60	479680.78
	Contract Required Detection Limit	Zn (213.857 nm)	0.0196	0.66	1041.4309
2/23/2024 20:01:58	Interference Check Solution A	Ag (328.068 nm)	-0.0004 u	38.47	-275.8629
	Interference Check Solution A	Al (237.312 nm)	258.2594 o	0.04	651970.7612
	Interference Check Solution A	As (188.980 nm)	-0.0050 Ku +/-0.01	24.46	-23.9583 K
	Interference Check Solution A	B (249.772 nm)	0.1130	0.19	3870.0043
	Interference Check Solution A	Ba (230.424 nm)	0.0010	5.12	42.2274
	Interference Check Solution A	Be (313.107 nm)	0.0000 u	> 100.00	-197.0528
	Interference Check Solution A	Ca (317.933 nm)	250.9343 o	0.16	9760359.2799
	Interference Check Solution A	Cd (214.439 nm)	0.0010 K +/-0.002	12.88	59.8981 K
	Interference Check Solution A	Co (230.786 nm)	0.0022	29.90	90.4519
	Interference Check Solution A	Cr (267.716 nm)	0.0007	30.82	16.8734
	Interference Check Solution A	Cu (327.395 nm)	0.0008	15.07	66.5316
	Interference Check Solution A	Fe (234.350 nm)	97.9853 o	0.20	2140397.4544
	Interference Check Solution A	K (766.491 nm)	0.9376	2.74	683.8570
	Interference Check Solution A	Mg (279.078 nm)	277.0290 o	0.12	840539.7034
	Interference Check Solution A	Mn (257.610 nm)	0.0014	0.64	468.6843
	Interference Check Solution A	Mo (202.032 nm)	-0.0002 u	> 100.00	-8.7088
	Interference Check Solution A	Na (588.995 nm)	0.4864	0.80	-5433.0105
	Interference Check Solution A	Ni (230.299 nm)	0.0017	38.39	93.0998

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Interference Check Solution A	Pb (220.353 nm)	0.0028	25.67	31.2771
	Interference Check Solution A	Sb (217.582 nm)	-0.0149 Ku +/- 0.002	15.06	-32.2803 K
	Interference Check Solution A	Se (196.026 nm)	-0.0042 u	64.19	-1.1102
	Interference Check Solution A	Sn (189.925 nm)	0.0038	38.75	18.3411
	Interference Check Solution A	Sr (216.596 nm)	0.0097	1.00	151.3334
	Interference Check Solution A	Ti (336.122 nm)	0.0036	21.04	256.3334
	Interference Check Solution A	Tl (190.794 nm)	-0.0004 u	> 100.00	-1.1535
	Interference Check Solution A	V (292.401 nm)	0.0015	1.54	7.8947
	Interference Check Solution A	Y (360.074 nm)	0.89	0.51	422788.81
	Interference Check Solution A	Y_R (360.074 nm)	0.89	0.51	422484.20
	Interference Check Solution A	Zn (213.857 nm)	0.0135 K +/- 0.002	0.53	704.6822 K
2/23/2024 20:05:12	Interference Check Solution AB	Ag (328.068 nm)	0.2100	0.04	12129.9837
	Interference Check Solution AB	Al (237.312 nm)	260.8171 o	0.11	658426.7617
	Interference Check Solution AB	As (188.980 nm)	0.0954	1.66	155.6754
	Interference Check Solution AB	B (249.772 nm)	0.1282	0.23	4383.5827
	Interference Check Solution AB	Ba (230.424 nm)	0.5415	0.20	26771.0355
	Interference Check Solution AB	Be (313.107 nm)	0.4892	0.16	530924.8108
	Interference Check Solution AB	Ca (317.933 nm)	253.0582 o	0.22	9842948.5000
	Interference Check Solution AB	Cd (214.439 nm)	1.0333	0.11	67366.4577
	Interference Check Solution AB	Co (230.786 nm)	0.5067	0.12	8094.8807
	Interference Check Solution AB	Cr (267.716 nm)	0.5353	0.20	23159.6644
	Interference Check Solution AB	Cu (327.395 nm)	0.5378	0.09	22440.6879
	Interference Check Solution AB	Fe (234.350 nm)	98.9196 o	0.15	2160805.3805
	Interference Check Solution AB	K (766.491 nm)	0.8525	3.02	598.4588
	Interference Check Solution AB	Mg (279.078 nm)	279.6651 o	0.22	848538.0523
	Interference Check Solution AB	Mn (257.610 nm)	0.5067	0.13	168424.2854
	Interference Check Solution AB	Mo (202.032 nm)	-0.0004 u	> 100.00	-10.5864
	Interference Check Solution AB	Na (588.995 nm)	0.4582	0.61	-5755.0971
	Interference Check Solution AB	Ni (230.299 nm)	1.0338	0.08	12765.7800
	Interference Check Solution AB	Pb (220.353 nm)	0.0540	1.44	312.9257
	Interference Check Solution AB	Sb (217.582 nm)	0.6163	0.19	1461.5430
	Interference Check Solution AB	Se (196.026 nm)	0.0447	2.71	35.6214
	Interference Check Solution AB	Sn (189.925 nm)	0.0036	15.19	17.7481
	Interference Check Solution AB	Sr (216.596 nm)	0.0099	0.47	155.8844
	Interference Check Solution AB	Ti (336.122 nm)	0.0028	16.75	164.1343
	Interference Check Solution AB	Tl (190.794 nm)	0.1022	2.98	108.6926
	Interference Check Solution AB	V (292.401 nm)	0.5243	0.07	20774.4505
	Interference Check Solution AB	Y (360.074 nm)	0.89	0.45	422983.31
	Interference Check Solution AB	Y_R (360.074 nm)	0.89	0.45	422673.08
	Interference Check Solution AB	Zn (213.857 nm)	1.0515	0.13	58098.3653
2/23/2024 20:08:26	Continuing Calibration Verification1	Ag (328.068 nm)	0.5276	0.10	30850.9722
	Continuing Calibration Verification1	Al (237.312 nm)	10.1338	0.15	25645.4017
	Continuing Calibration Verification1	As (188.980 nm)	1.0082	0.05	1788.1971
	Continuing Calibration Verification1	B (249.772 nm)	2.4178	0.24	82040.5687
	Continuing Calibration Verification1	Ba (230.424 nm)	10.4905	0.17	518777.9069
	Continuing Calibration Verification1	Be (313.107 nm)	0.2441	0.17	264841.2097
	Continuing Calibration Verification1	Ca (317.933 nm)	26.8522	0.21	1046780.2008
	Continuing Calibration Verification1	Cd (214.439 nm)	0.5304	0.23	34572.9490
	Continuing Calibration Verification1	Co (230.786 nm)	2.6332	0.28	41835.1269
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5421	0.21	23454.7457
	Continuing Calibration Verification1	Cu (327.395 nm)	1.2516	0.26	52181.9273
	Continuing Calibration Verification1	Fe (234.350 nm)	5.2440	0.19	114732.4001
	Continuing Calibration Verification1	K (766.491 nm)	25.2358	0.14	25058.8356
	Continuing Calibration Verification1	Mg (279.078 nm)	26.6261	0.19	80762.8722
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7660	0.19	254616.3240
	Continuing Calibration Verification1	Mo (202.032 nm)	2.5756	0.64	20561.9108
	Continuing Calibration Verification1	Na (588.995 nm)	25.4891	0.03	279499.6529

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification1	Ni (230.299 nm)	2.1836	0.25	26884.6066
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5225	0.27	2891.8171
	Continuing Calibration Verification1	Sb (217.582 nm)	4.9945	0.20	11822.6058
	Continuing Calibration Verification1	Se (196.026 nm)	0.4888	0.71	369.3711
	Continuing Calibration Verification1	Sn (189.925 nm)	5.2446	0.21	15633.1097
	Continuing Calibration Verification1	Sr (216.596 nm)	2.5845	0.04	51341.7928
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5491	0.13	324582.9211
	Continuing Calibration Verification1	Tl (190.794 nm)	1.0237	0.21	1095.2291
	Continuing Calibration Verification1	V (292.401 nm)	2.5870	0.17	102701.0949
	Continuing Calibration Verification1	Y (360.074 nm)	0.97	0.38	462203.66
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.97	0.38	461882.50
	Continuing Calibration Verification1	Zn (213.857 nm)	1.0170	0.17	56191.4944
2/23/2024 20:11:40	Continuing Calibration Blank1	Ag (328.068 nm)	-0.0004 u	12.88	-277.3449
	Continuing Calibration Blank1	Al (237.312 nm)	0.0038	80.81	75.1177
	Continuing Calibration Blank1	As (188.980 nm)	0.0033	52.52	-9.0018
	Continuing Calibration Blank1	B (249.772 nm)	0.0017	14.48	95.1861
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0004	12.12	16.3438
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000	20.25	-176.6340
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0081	2.13	2925.7170
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0001	64.43	-2.8687
	Continuing Calibration Blank1	Co (230.786 nm)	0.0002	74.24	59.7676
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0000 u	> 100.00	-13.8089
	Continuing Calibration Blank1	Cu (327.395 nm)	-0.0003 u	67.91	20.7207
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0066	20.23	335.4283
	Continuing Calibration Blank1	K (766.491 nm)	0.5763	12.58	321.4127
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0021	42.52	-20.1020
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0000	37.82	0.5536
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0069	13.70	47.4175
	Continuing Calibration Blank1	Na (588.995 nm)	0.3316	2.39	-7197.6602
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0002 u	> 100.00	74.0695
	Continuing Calibration Blank1	Pb (220.353 nm)	-0.0004 u	> 100.00	13.3270
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0129 Z 0.064	6.96	33.4843 Z
	Continuing Calibration Blank1	Se (196.026 nm)	-0.0006 u	> 100.00	1.5503
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0024	19.88	14.1660
	Continuing Calibration Blank1	Sr (216.596 nm)	-0.0001 u	79.44	-44.2553
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0076	27.14	768.0779
	Continuing Calibration Blank1	Tl (190.794 nm)	-0.0008 u	> 100.00	-1.6597
	Continuing Calibration Blank1	V (292.401 nm)	-0.0004 u	58.11	-64.2821
	Continuing Calibration Blank1	Y (360.074 nm)	1.02	0.18	486079.49
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.02	0.18	485775.81
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0001	44.93	-33.4903

Summary Calibration Results

Element and wavelength	Type	Units	Equation	Correlation Coefficient	%RSE
Ag (328.068 nm)	Analyte	ppm	58945.52763977 * Concentration - 251.39371063	1.00000	0.97757900
Al (237.312 nm)	Analyte	ppm	2524.22631021 * Concentration + 65.46757826	1.00000	5.67411445
As (188.980 nm)	Analyte	ppm	1788.44393714 * Concentration - 14.95399474	0.99999	9.80859345
B (249.772 nm)	Analyte	ppm	33916.24119132 * Concentration + 36.71200916	0.99999	3.59570931
Ba (230.424 nm)	Analyte	ppm	49452.72474740 * Concentration - 5.37616924	0.99997	6.76491946
Be (313.107 nm)	Analyte	ppm	1085623.01013446 * Concentration - 201.19067865	1.00000	3.39633240
Ca (317.933 nm)	Analyte	ppm	38885.66964447 * Concentration + 2612.55112062	0.99999	2.41096096
Cd (214.439 nm)	Analyte	ppm	65200.14267391 * Concentration - 7.44333139	0.99999	7.54448427
Co (230.786 nm)	Analyte	ppm	15866.44790759 * Concentration + 55.81063769	0.99999	7.40622675
Cr (267.716 nm)	Analyte	ppm	43293.69056711 * Concentration - 14.05320147	1.00000	1.53413841
Cu (327.395 nm)	Analyte	ppm	41665.62710504 * Concentration + 33.69450851	1.00000	1.00525245
Fe (234.350 nm)	Analyte	ppm	21842.11449298 * Concentration + 191.72498740	1.00000	2.67619770
K (766.491 nm)	Analyte	ppm	1003.15996250 * Concentration - 256.69185789	0.99996	8.29599901
Mg (279.078 nm)	Analyte	ppm	3034.21720320 * Concentration - 26.49723262	1.00000	0.91703754
Mn (257.610 nm)	Analyte	ppm	332422.99627810 * Concentration - 10.74694187	0.99999	4.28548424
Mo (202.032 nm)	Analyte	ppm	7986.16475123 * Concentration - 7.46884314	1.00000	2.81817376
Na (588.995 nm)	Analyte	ppm	11396.10886310 * Concentration - 10976.38504513	1.00000	4.37580166
Ni (230.299 nm)	Analyte	ppm	12279.24977733 * Concentration + 71.64146724	0.99998	2.76434848
Pb (220.353 nm)	Analyte	ppm	5504.71050712 * Concentration + 15.79313768	0.99998	4.41538858
Sb (217.582 nm)	Analyte	ppm	2366.52819551 * Concentration + 2.95917652	0.99999	1.59033937
Se (196.026 nm)	Analyte	ppm	751.59714844 * Concentration + 2.01314101	0.99999	5.45018579
Sn (189.925 nm)	Analyte	ppm	2979.42570784 * Concentration + 7.13043771	1.00000	1.46026632
Sr (216.596 nm)	Analyte	ppm	19881.43176189 * Concentration - 41.92300214	0.99999	3.21202334
Ti (336.122 nm)	Analyte	ppm	127410.23118947 * Concentration - 196.34317742	1.00000	2.79484104
Tl (190.794 nm)	Analyte	ppm	1070.64784941 * Concentration - 0.75334079	0.99998	16.393523 15
V (292.401 nm)	Analyte	ppm	39718.83734189 * Concentration - 49.83674314	1.00000	2.09045074
Zn (213.857 nm)	Analyte	ppm	55289.75323325 * Concentration - 39.63035434	1.00000	3.48136319

Detailed Calibration Results

Ag (328.068 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-251.3937	0.0000	0.0000	N/A
Standard 3	333.1216	0.0100	0.0099	0.8381
Standard 4	11478.4241	0.2000	0.1990	0.5029
Standard 5	58706.0409	1.0000	1.0002	0.0202

Al (237.312 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	65.4676	0.0000	0.0000	N/A
Standard 2	303.7832	0.1000	0.0944	5.5886
Standard 4	10063.3830	4.0000	3.9608	0.9804
Standard 5	50569.8623	20.0000	20.0079	0.0394

As (188.980 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-14.9540	0.0000	0.0000	N/A
Standard 1	-5.8186	0.0050	0.0051	2.1602
Standard 2	5.3505	0.0100	0.0114	13.5316
Standard 4	685.0158	0.4000	0.3914	2.1538

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Standard 5	3565.0029	2.0000	2.0017	0.0858

B (249.772 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	36.7120	0.0000	0.0000	N/A
Standard 2	6621.1769	0.2000	0.1941	2.9305
Standard 4	33246.9140	1.0000	0.9792	2.0817
Standard 5	169767.0771	5.0000	5.0044	0.0880

Ba (230.424 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-5.3762	0.0000	0.0000	N/A
Standard 1	1040.8272	0.0200	0.0212	5.7781
Standard 4	204759.2227	4.0000	4.1406	3.5153
Standard 5	987658.3217	20.0000	19.9719	0.1406

Be (313.107 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-201.1907	0.0000	0.0000	N/A
Standard 2	2928.9332	0.0030	0.0029	3.8916
Standard 3	5074.1626	0.0050	0.0049	2.8143
Standard 4	108282.2732	0.1000	0.0999	0.0726
Standard 5	542628.3699	0.5000	0.5000	0.0033

Ca (317.933 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	2612.5511	0.0000	0.0000	N/A
Standard 2	42160.2905	1.0000	1.0170	1.7026
Standard 3	22445.0822	0.5000	0.5100	2.0043
Standard 4	399900.9233	10.0000	10.2168	2.1683
Standard 5	1945192.5598	50.0000	49.9562	0.0876

Cd (214.439 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-7.4433	0.0000	0.0000	N/A
Standard 1	64.5433	0.0010	0.0011	10.4087
Standard 2	323.3523	0.0050	0.0051	1.4708
Standard 4	13270.4789	0.2000	0.2036	1.8243
Standard 5	65145.0898	1.0000	0.9993	0.0730

Co (230.786 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	55.8106	0.0000	0.0000	N/A
Standard 1	98.6835	0.0030	0.0027	9.9297
Standard 3	867.9448	0.0500	0.0512	2.3713
Standard 4	16293.4934	1.0000	1.0234	2.3397
Standard 5	79313.6179	5.0000	4.9953	0.0938

Cr (267.716 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-14.0532	0.0000	0.0000	N/A
Standard 1	200.4507	0.0050	0.0050	0.9076
Standard 3	424.6893	0.0100	0.0101	1.3410
Standard 4	8769.6204	0.2000	0.2029	1.4429

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Standard 5	43254.6020	1.0000	0.9994	0.0578

Cu (327.395 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	33.6945	0.0000	0.0000	N/A
Standard 1	445.9795	0.0100	0.0099	1.0491
Standard 2	865.1177	0.0200	0.0200	0.2267
Standard 4	20672.4600	0.5000	0.4953	0.9315
Standard 5	104236.6045	2.5000	2.5009	0.0373

Fe (234.350 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	191.7250	0.0000	0.0000	N/A
Standard 3	2428.9816	0.1000	0.1024	2.4286
Standard 4	44366.7044	2.0000	2.0225	1.1234
Standard 5	218514.1894	10.0000	9.9955	0.0452

K (766.491 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-256.6919	0.0000	0.0000	N/A
Standard 2	1708.6916	2.0000	1.9592	2.0404
Standard 3	190.9160	0.5000	0.4462	10.7604
Standard 4	9353.2503	10.0000	9.5797	4.2033
Standard 5	49987.8150	50.0000	50.0862	0.1725

Mg (279.078 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-26.4972	0.0000	0.0000	N/A
Standard 2	2987.0263	1.0000	0.9932	0.6820
Standard 3	1476.1823	0.5000	0.4952	0.9511
Standard 4	30146.2762	10.0000	9.9442	0.5583
Standard 5	151718.8008	50.0000	50.0113	0.0227

Mn (257.610 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-10.7469	0.0000	0.0000	N/A
Standard 1	3446.3152	0.0100	0.0104	3.9959
Standard 4	101259.3363	0.3000	0.3046	1.5474
Standard 5	498314.2251	1.5000	1.4991	0.0621

Mo (202.032 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-7.4688	0.0000	0.0000	N/A
Standard 1	186.9569	0.0250	0.0243	2.6187
Standard 4	7895.5953	1.0000	0.9896	1.0406
Standard 5	39940.0012	5.0000	5.0021	0.0417

Na (588.995 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-10976.3850	0.0000	0.0000	N/A
Standard 2	-101.8232	1.0000	0.9542	4.5765
Standard 3	-5509.5782	0.5000	0.4797	4.0584
Standard 4	101916.4216	10.0000	9.9063	0.9374
Standard 5	559055.4579	50.0000	50.0199	0.0397

Ni (230.299 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	71.6415	0.0000	0.0000	N/A
Standard 3	566.5314	0.0400	0.0403	0.7574
Standard 4	10155.9948	0.8000	0.8213	2.6564
Standard 5	49136.4127	4.0000	3.9957	0.1063

Pb (220.353 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	15.7931	0.0000	0.0000	N/A
Standard 1	43.8963	0.0050	0.0051	2.1058
Standard 2	304.4584	0.0500	0.0524	4.8794
Standard 4	1152.7957	0.2000	0.2066	3.2754
Standard 5	5512.6172	1.0000	0.9986	0.1433

Sb (217.582 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	2.9592	0.0000	0.0000	N/A
Standard 1	26.3562	0.0100	0.0099	1.1333
Standard 2	145.8696	0.0600	0.0604	0.6471
Standard 4	4649.3885	2.0000	1.9634	1.8303
Standard 5	23685.5613	10.0000	10.0073	0.0732

Se (196.026 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	2.0131	0.0000	0.0000	N/A
Standard 2	9.9256	0.0100	0.0105	5.2759
Standard 4	150.2790	0.2000	0.1973	1.3661
Standard 5	754.0170	1.0000	1.0005	0.0541

Sn (189.925 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	7.1304	0.0000	0.0000	N/A
Standard 2	1508.2631	0.5000	0.5038	0.7666
Standard 4	6039.9790	2.0000	2.0248	1.2418
Standard 5	29786.0171	10.0000	9.9948	0.0516

Sr (216.596 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-41.9230	0.0000	0.0000	N/A
Standard 3	974.9567	0.0500	0.0511	2.2944
Standard 4	20286.0507	1.0000	1.0225	2.2460
Standard 5	99275.6993	5.0000	4.9955	0.0901

Ti (336.122 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-196.3432	0.0000	0.0000	N/A
Standard 3	5996.1699	0.0500	0.0486	2.7941
Standard 4	127132.0019	1.0000	0.9994	0.0643
Standard 5	636872.9700	5.0000	5.0001	0.0029

Tl (190.794 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-0.7533	0.0000	0.0000	N/A
Standard 1	7.4866	0.0100	0.0077	23.0382
Standard 3	20.4525	0.0200	0.0198	0.9671
Standard 4	437.8108	0.4000	0.4096	2.4063
Standard 5	2138.4958	2.0000	1.9981	0.0956

V (292.401 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-49.8367	0.0000	0.0000	N/A
Standard 1	67.0679	0.0030	0.0029	1.8898
Standard 3	1891.4352	0.0500	0.0489	2.2493
Standard 4	39537.8427	1.0000	0.9967	0.3302
Standard 5	198571.0296	5.0000	5.0007	0.0134

Zn (213.857 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-39.6304	0.0000	0.0000	N/A
Standard 1	491.6068	0.0100	0.0096	3.9176
Standard 3	1033.6332	0.0200	0.0194	2.9419
Standard 4	21968.6393	0.4000	0.3981	0.4867
Standard 5	110561.8361	2.0000	2.0004	0.0199

ICP ICV/CCV (Standard is prepared daily)
(ICV FOR ILM5.3 IS A ½ DILUTION OF THIS STANDARD)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 1	CA	231799	5000	1.00	200	25.0
	MG		5000			25.0
	K		5000			25.0
	NA		5000			25.0
Cal Std 2	AG	231800	100	1.00		0.500
	CR		100			0.500
	MN		150			0.750
	NI		400			2.00
	ZN		200			1.00
Cal Std 3	AL	233056	2000	1.00		10.0
	BA		2000			10.0
	BE		50			0.250
	CO		500			2.50
	CU		250			1.25
	FE		1000			5.00
	V		500			2.50
Cal Std 4	AS	232796	100	2.00		1.00
	CD		50			0.500
	PB		50			0.500
	SE		50			0.500
	TL		100			1.00
Single Metals	SB	232797	1000	1.00		5.00
	SN	232726	1000	1.00		5.00
	B	231910	1000	0.500		2.50
	MO	230303	1000	0.500		2.50
	TI	225912	1000	0.500		2.50
	SR	230304	1000	0.500		2.50
	P	—	1000	1.00		5.00

Analyst/ Date	Letter ID	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Pipet. ID
MFM 2/23/24	A	231748 2%	233283 5%	M40
MFM 2/23/24	B	231748 10%	233283 5%	M40
	C			
	D			
	E			
	F			
	G			
	H			
	I			
	J			
	K			
	L			
	M			
	N			
	O			
	P			
	Q			
	R			
	S			
	T			
	U			
	V			
	W			
	X			
	Y			
	Z			
	AA			
	BB			

ICP CALIBRATION STANDARD #1 (Standard is prepared every 6 months or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std.1 Int.	AL	M844003A	20.0	1.00	1000	0.020
	AS		5.00			0.0050
	CD		1.00			0.0010
	CO		3.00			0.0030
	CR		5.00			0.0050
	PB		5.00			0.0050
	V		3.00			0.0030
Cal Std. 1	CA	226704	5000	0.100		0.500
	K		5000			BELOW
	MG		5000			0.500
	NA		5000			0.500
Single Element	BA	227183	1000	0.020		0.020
	CU	230454	1000	0.010		0.010
	K	229196	10000	0.150		2.00
	MN	227184	1000	0.010		0.010
	MO	226706	1000	0.025		0.025
	SB	230313	1000	0.010		0.010
	TL	226708	1000	0.010		0.010
	ZN	227186	1000	0.010		0.010
	P	–	1000	0.100		0.100

Analyst/ Date	Letter ID	Nitric Acid Lot#/ Concentration	Hydrochloric Acid Lot #/ Concentration	Expiration Date	Pipet ID
NM 10/2/23	A	229709 2%	231167 5%	3/28/24	M37 M36
NM 10/2/23	B	229709 10%	231167 5%	3/28/24	M37 M36
	C				
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				

ICP CALIBRATION STANDARD #2
(Standard is prepared every 6 months or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Single Element	AL	199356	1000	0.100	1000	0.100
	AS	230302	1000	0.010		0.010
	B	226705	1000	0.200		0.200
	BE	230311 (1/10)	100	0.030		0.003
	CA	230305	10000	0.100		1.00
	CD	227603 (1/10)	100	0.050		0.005
	CU	230454	1000	0.020		0.020
	K	229196	10000	0.200		2.00
	MG	230307	10000	0.100		1.00
	NA	230308	10000	0.100		1.00
	PB	227185	1000	0.050		0.050
	SB	230313	1000	0.060		0.060
	SE	230309	1000	0.010		0.010
	SN	229641	1000	0.500		0.500

Analyst/ Date	Letter ID	Nitric Acid Lot#	Hydrochloric Acid Lot #	Expiration Date	Pipet ID
NM 10/2/23	A	229709 2%	231167 5%	4/2/24	M37 M36
NM 10/2/23	B	229709 10%	231167 5%	4/2/24	M37 M36
	C				
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				

ICP CALIBRATION STANDARD #5 / HLCCV1 (Standard is prepared every 6 months or as necessary)
(CALIBRATION STANDARD #3 IS A 1/100 DILUTION OF THIS STANDARD)
(CALIBRATION STANDARD #4 IS A 1/5 DILUTION OF THIS STANDARD)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 2	AG	230301	100	~~2.00~~	~~200~~	1.00
	CR		100	5.00	500	1.00
	MN		150			1.50
	NI		400			4.00
	ZN		200			2.00
Cal Std 3	AL	233055	2000	~~2.00~~		20.0
	BA		2000	5.00		20.0
	BE		50			0.500
	CO		500			5.00
	CU		250			2.50
	FE		1000			10.0
	V		500			5.00
Cal Std 4	AS	231798	100	~~4.00~~		2.00
	CD		50	10.00		1.00
	PB		50			1.00
	SE		50			1.00
	TL		100			2.00
Single Metals	CA	230305	10000	~~1.00~~	2.50	50.0
	MG	230307	10000	~~1.00~~	2.50	50.0
	K	229196	10000	~~1.00~~	2.50	50.0
	NA	230308	10000	~~1.00~~	2.50	50.0
	SB	230313	1000	~~2.00~~	5.00	10.0
	SN	231915	1000	~~2.00~~	5.00	10.0
	B	226705	1000	~~1.00~~	2.50	5.00
	MO	226706	1000	~~1.00~~	2.50	5.00
	TI	230316	1000	~~1.00~~	2.50	5.00
	SR	230310	1000	~~1.00~~	2.50	5.00

Analyst/ Date	Letter ID	Nitric Acid Lot#/ Concentration	Hydrochloric Acid Lot #/ Concentration	Expiration Date	Pipet ID
NM 1/31/24	A	231748 2%	232049 5%	6/30/24	M38
NM 1/31/24	B	231748 10%	232049 5%	6/30/24	M38
	C				
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				
	BB				

ICP HLCCV2 (Standard is prepared every 6 months or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 2	AG	230301	100	~~2.00~~	100	2.00
	CR		100	4.00	200	Below
	MN		150			Below
	NI		400			8.00
	ZN		200			4.00
Cal Std 3	AL	233055	2000	~~2.00~~		Below
	BA		2000	4.00		40.0
	BE		50			1.00
	CO, V		500			10.0
	CU		250			5.00
	FE		1000			Below
Cal Std 4	AS, TL	231798	100	~~4.00~~		4.00
	CD, SE		50	8.00		2.00
	PB		50			Below
Single Metals	B	226705	1000	~~1.00~~	2.00	10.0
	MO	226706	1000	~~1.00~~	2.00	10.0
	TI	230316	1000	~~1.00~~	2.00	10.0
	SR	230310	1000	~~1.00~~	2.00	10.0
	CA	230305	10000	~~2.50~~	5.00	250
	MG	230307	10000	~~5.00~~	10.00	500
	NA	230308	10000	~~2.00~~	4.00	~~150~~ 200
	CR	230312	1000	~~0.800~~	1.60	10.0
	FE	230306	10000	~~0.300~~	0.60	50
	AL	226846	10000	~~4.60~~	9.20	500
	MN	227184	1000	~~0.700~~	1.40	10.00
	PB	227185	1000	~~0.800~~	1.60	10.0
	K	229196	10000	~~1.50~~	3.00	150

MCM 1/8/24

Analyst/ Date	Letter ID	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
MFM 1/8/24	A	231748 2%	232049 5%	6/8/24	M36 M34
MFM 1/31/24	B	231748 10%	232049 5%	6/30/24	M36 M38
	C				
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				

ICP HLCCV3 (Standard is prepared every 6 months or as necessary)

Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)
CA	230305	10,000	~~2.000~~ 4.00	~~100~~ 200
CU	230454	1000	~~0.400~~ 0.800	
FE	230306	10,000	~~0.400~~ 0.800	
K	229196	10,000	~~1.000~~ 2.00	
TL	226708	1000	~~0.300~~ 0.600	
NA	230308	10,000	~~1.500~~ 3.00	
MG	230307	10,000	~~4.000~~ 8.00	

Final Conc. (ppm)	Matrix	Analyst / Date	Letter ID	Nitric Acid Lot #	HCL Lot #	Expiration Date	Pipet ID
200.00	2% HNO3 5% HCl	NM 9/13/23	A	229709	229711	3/13/24	M36 M38
4.00	10% HNO3 5% HCl	NM 9/13/23	B	229709	229711	3/13/24	
40.00	10% HNO3 5% HCl	NM 12/6/23	C	231748	230099	6/	
100.00			D				
3.00			E				
150.00			F				
400.00			G				
			H				
			I				
			J				
			K				
			L				
			M				
			N				
			O				
			P				
			Q				
			R				
			S				
			T				
			U				

ICP MRL (Standard is prepared every 6 months or as needed)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 1	CA	226704	5000	0.200	1000	1.00
	MG		5000			1.00
	K		5000			1.00
	NA		5000			1.00
Cal Std 2	AG	230301	100	0.100		0.0100
	CR		100			0.0100
	MN		150			0.0150
	NI		400			0.0400
	ZN		200			0.0200
Cal Std 3	AL	233055	2000	0.100		0.200
	BA		2000			0.200
	BE		50			0.0050
	CO		500			0.0500
	CU		250			0.0250
	FE		1000			0.100
	V		500			0.0500
Cal Std 4	AS	231798	100	0.200		0.0200
	CD		50			0.0100
	PB		50			0.0100
	SE		50			0.0100
	TL		100			0.0200
Single Metals	B	226705	1000	0.200		0.200
	MO	226706	1000	0.025		0.0250
	SN	231915	1000	0.500		0.500
	TI	230316	1000	0.050		0.0500
	SB	230313	1000	0.060		0.0600
	SR	230310	1000	0.100		0.100
	P	—	1000	0.100		0.100

Analyst/ Date	Letter ID	Nitric Acid Lot# / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
MFM 2/8/24	A	231748 10%	232049 8%	3/28/24	M36 M37
	B				
	C				
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				
	BB				

ICP ICSA STANDARD (Standard is prepared every 6 months or as necessary)

Element	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Int. A Sol'n	230960	Multi	50	1000	Multi
AL		5000			250
CA		5000			250
FE		2000			100
MG		5000			250

Analyst/ Date	ID Letter	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 10/17/23	A	229709 2%	231167 5%	4/17/24	dispo
NM 10/17/23	B	229709 10%	231167 5%	4/17/24	dispo
NM 12/6/23	C	231748 10%	232049 5%	6/6/24	dispo
NM 12/7/23	D	231748 10%	232049 5%	6/7/24	dispo
NM 12/21/23	E	231748 2%	232049 5%	6/21/24	dispo
MFM 2/12/24	F	231748 10%	232049 5%	8/12/24	dispo
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				

ICP ICSAB STANDARD (Standard is prepared every 6 months or as necessary)

Element	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Int. A Sol'n	228413	Multi	~~25~~	~~500~~	Multi
AL		5000		1000	250
CA		5000			250
FE		2000			100
MG		5000			250
Int. B Sol'n	228979	Multi	~~5~~		Multi
AG		20			0.200
BA		50			0.500
BE		50			0.500
CD		100			1.00
CO		50			0.500
CR		50			0.500
CU		50			0.500
MN		50			0.500
NI		100			1.00
PB		5			0.0500
V		50			0.500
ZN		100			1.00
AS		10			0.100
SB		60			0.600
SE		5			0.0500
TL		10			0.100

Analyst/ Date	ID Letter	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 6/30/23	A	228400 2%	229711 5%	12/30/23	M38
NM 6/30/23	B	228400 10%	229711 5%	12/30/23	M38
NM 9/13/23	C	229709 2%	229711 5%	3/13/24	M38
NM 9/13/23	D	229709 10%	229711 5%	3/13/24	M38
NM 11/14/23	E	229709 10%	231167 5%	3/3/24	disp
NM 12/21/23	F	231748 2%	~~231167~~ 232049 5%	6/21/24	disp
NM 12/21/23	G	231748 10%	232049 5%	6/21/24	disp
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				

MEM 1/12/24

ICP INTERNAL STANDARD (ADDED ON-LINE)

Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot #	Hydro-chloric Acid Lot #	Expiration Date	Pipet ID
Y	226709	10000	2.0	2000	10.0	5 % HCl 2%HNO3	MFM 1/25/24	A	231748	232049	6/30/24	M40
CS	226847	10000	2.0		10.0		MFM 1/25/24	B	231748	232049	6/30/24	M40
							MFM 2/13/24	C	231748	232049	6/30/24	M40
							MFM 2/13/24	D	231748	232049	6/30/24	M40
								E				
								F				
								G				
								H				
								I				
								J				
								K				
								L				
								M				
								N				
								O				
								P				
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								S				
								T				
								V				

Preparation Information Benchsheet

Prep Run#: 433956
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigSICP
Prep Method: EPA 3050B

Status: Prepped
Prep Date/Time: 2/13/24 09:06

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2401512-01	MB		0.5g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Sr T, Ti T, Tl T, V T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		HB:12 Well:H4 Temp:91.9C/93.6C
2	RQ2401512-02	LCS		0.5g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Sr T, Ti T, Tl T, V T, Zn T				50.00mL	Brown-Medium/Yellow-Clear	0.5000 mL/230954; 0.5000 mL/230955; 0.5000 mL/233441	On HB:11:23-11:38,11:40-12:10,12:11-12:41,14:30-14:45,14:46-15:01 Pip:M340,MA100,M380,M38,M33,M23
3	RQ2401512-05	MDLV		0.5g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Sr T, Ti T, Tl T, V T, Zn T				50.00mL	Brown-Medium/Yellow-Clear	0.5000 mL/189965	
4	RQ2401512-06	MDLV		0.5g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Sr T, Ti T, Tl T, V T, Zn T				50.00mL	Brown-Medium/Yellow-Clear	0.5000 mL/189965	
5	R2400831-012	6010C MDLV ICP6#2	.01	0.5g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Sr T, Ti T, Tl T, V T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		M8550013A
6	R2400831-014	6010C MDLV ICP7#2	.01	0.5g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Sr T, Ti T, Tl T, V T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
7	R2400885-002	KL SLUDGE-02012024-SL	.03	0.5200g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
8	R2400914-001	End of Belt Press Sludge	.02	0.5200g	6010C/As T, Cd T, Cr T, Cu T, K T, Mo T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
9	R2400914-002	Finished Compost	.02	0.5100g	6010C/As T, Cd T, Cr T, Cu T, K T, Mo T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
10	R2400931-001	Filter Cake	.02	0.5300g	6010C/As T, Ba T, Cd T, Cr T, Cu T, K T, Mo T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
11	R2401014-003	Sludge	.02	0.5100g	6010C/As T, Cd T, Cr T, Cu T, K T, Mo T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
12	R2401059-001	800 Stockpile	.02	0.5g	6010C/Cd T, Pb T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		

Preparation Information Benchsheet

Prep Run#: 433956
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigSICP
Prep Method: EPA 3050B

Status: Prepped
Prep Date/Time: 2/13/24 09:06

13	RQ2401512-03	R2401059-001 MS	.02	0.5100g	6010C/Cd T, Pb T, Zn T				50.00mL	Brown-Medium/Yellow-Clear	0.5000 mL/230954; 0.5000 mL/233441; 0.5000 mL/230955	
14	RQ2401512-04	R2401059-001 DMS	.02	0.5300g	6010C/Cd T, Pb T, Zn T				50.00mL	Brown-Medium/Yellow-Clear	0.5000 mL/230955; 0.5000 mL/233441; 0.5000 mL/230954	
15	R2401085-001	800 Stockpile	.03	0.5g	6010C/As T, Cd T, Cr T, Cu T, K T, Mo T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
16	R2401085-002	322 Conveyor (MSW only)	.01	0.5400g	6010C/As T, Cd T, Cr T, Cu T, K T, Mo T, Ni T, Pb T, Se T, Zn T				50.00mL	Multi-Color-Medium/Yellow-Clear		
17	R2401089-001	Grit Zone #2	.01	0.5200g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				50.00mL	Multi-Color-Medium/Yellow-Clear		
18	R2401106-001	SED SWS-1	.04	0.5500g	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T				50.00mL	Brown-Medium/Yellow-Clear		
19	R2401106-002	SED SWS-2	.03	0.5300g	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T				50.00mL	Brown-Medium/Yellow-Clear		
20	R2401106-003	SED SWS-4	.04	0.5500g	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T				50.00mL	Brown-Medium/Yellow-Clear		
21	R2401106-004	SED SWS-5	.04	0.5g	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T				50.00mL	Brown-Medium/Yellow-Clear		
22	R2401106-005	SED SWS-5R	.02	0.5300g	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T				50.00mL	Brown-Medium/Yellow-Clear		
23	R2401106-006	SED SWS-6	.01	0.5g	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T				50.00mL	Brown-Medium/Yellow-Clear		
24	R2401106-007	SED SWS-7	.03	0.5g	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T				50.00mL	Brown-Medium/Yellow-Clear		
25	R2401106-008	SED SWS-8	.03	0.5400g	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T				50.00mL	Brown-Medium/Yellow-Clear		

Spiking Solutions

Name:	ICP MDLV SOIL	Inventory ID	189965	Logbook Ref:	Plastic	Expires On:	05/04/2028	Lot #:	M7530013
Name:	Custom LCS STD A Metals	Inventory ID	230954	Logbook Ref:	230954	Expires On:	02/28/2025	Lot #:	2320923-5
Name:	Custom LCS STD B Metals	Inventory ID	230955	Logbook Ref:	230955	Expires On:	02/28/2025	Lot #:	2320908-5
Name:	C Spike	Inventory ID	233441	Logbook Ref:	233441	Expires On:	06/30/2024		

Preparation Materials

1:1 HCl Metals Grade	1:1 232049 (232050)	1:1 Nitric Acid Metals Grade	1:1 231748 (232391)	Boiling Stones PTFE	226047 (226047)
Hot Block Cups	50mL Lot 2304355 (232860)	Thermometer	462 (230832)	Hydrogen Peroxide 30% Reagent Grade H2O2	222889 (222889)
Nitric Acid Metals Grade HNO3	231748 (231748)				

Preparation Steps

Step: Digestion
Started: 2/13/24 09:06
Finished: 2/13/24 15:16
By: CDISTEFANO
Comments

Preparation Information Benchsheet

Prep Run#: 433956
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigSICP
Prep Method: EPA 3050B

Status: Prepped
Prep Date/Time: 2/13/24 09:06

Comments: _____

_____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By:	_____	Date:	_____	Extracts Examined
Received By:	_____	Date:	_____	Yes No

Preparation Information Benchsheet

Prep Run#: 434254
Team: Metals/ECASTROVINCI

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 2/20/24 12:51

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2401789-01	MB		50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		HB: 1 Well: F5 Temp: 93.1C
2	RQ2401789-02	LCS		50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear	0.5000 mL/233441; 0.5000 mL/230955; 0.5000 mL/230954	On HB: 16:50 HB Shutoff: 02:50 Pipets: M340,MA100,M23
3	R2401280-002	OLN-CW013-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		Tier IV
4	R2401280-003	OLN-CW13A-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
5	R2401280-004	OLN-FB001-B007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
6	R2401280-006	OLN-WW18m-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
7	R2401280-008	OLN-RU009-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
8	R2401280-009	OLN-RU028-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
9	R2401280-010	OLN-RU011-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
10	R2401280-011	OLN-RU27A-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
11	R2401280-012	OLN-FB002-B007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
12	R2401280-013	OLN-RU015-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
13	R2401280-014	OLN-RU016-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
14	R2401280-015	OLN-FD001-D007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
15	R2401280-016	OLN-RU020-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
16	R2401280-017	OLN-RU019-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
17	R2401280-018	OLN-RU021-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
18	RQ2401789-03	R2401280-018 MS	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear	0.5000 mL/230955; 0.5000 mL/233441; 0.5000 mL/230954	
19	RQ2401789-04	R2401280-018 DMS	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear	0.5000 mL/230954; 0.5000 mL/230955; 0.5000 mL/233441	
20	R2401280-019	OLN-UA002-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
21	R2401280-020	OLN-EB001-E007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
22	R2401280-022	OLN-UA003-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
23	R2401280-023	OLN-RU008-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
24	R2401280-024	OLN-FB003-B007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	230954	Logbook Ref:	230954	Expires On: 02/28/2025	Lot #: 2320923-5
Name:	Custom LCS STD B Metals	Inventory ID	230955	Logbook Ref:	230955	Expires On: 02/28/2025	Lot #: 2320908-5
Name:	C Spike	Inventory ID	233441	Logbook Ref:	233441	Expires On: 06/30/2024	

Preparation Materials

1:1 HCl Metals Grade	1:1 232049 (232050)	Hot Block Cups	50mL Lot 2304355 (232860)	Nitric Acid Metals Grade HNO3 231748 (231748)
Thermometer	460 (230830)			

Preparation Information Benchsheet

Prep Run#: 434254
Team: Metals/ECASTROVINCI

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 2/20/24 12:51

Preparation Steps

Step: Digestion
Started: 2/20/24 12:51
Finished: 2/21/24 11:19
By: ECASTROVINCI
Comments

1280 - 3/1 (IV)

Comments:

Reviewed By: Molly McMahon Date: 2/21/24

Chain of Custody

Relinquished By:	Eric Castrovinci	Date:	2/21/24	Extracts Examined
Received By:	RAVI	Date:	2/21/24	Yes No

Preparation Information Benchsheet

Prep Run#: 434379
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 2/22/24 10:10

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2401907-01	MB		50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Sr T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		HB:1 Well:H1 Temp:91.5C
2	RQ2401907-02	LCS		50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Sr T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/230954; 0.5000 mL/230955; 0.5000 mL/233797	On HB:15:29 HB Shutoff:1:29 Pipet/Repipettor:M340,MA100,M23
3	RQ2401907-03	DLCS		50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Sr T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/230954; 0.5000 mL/230955; 0.5000 mL/233797	
4	R2401363-001	2402150850X 200-C-225	.02	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		
5	R2401363-006	2402150946X 200-C-170	.02	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		
6	R2401363-007	2402151105X 200-C-170	.02	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		
7	R2401363-008	2402151310C 100-C-365	.02	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		
8	R2401363-015	2402151505X 600-E-280	.02	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		
9	R2401363-018	2402161040X 300-E-138	.02	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		
10	R2401363-019	2402161247X 300-E-138	.02	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 434379 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/CDISTEFANO **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 2/22/24 10:10

11	R2401363-023	2402161316Y 200-F-370	.02	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		
12	R2401372-001	SCA-PAR0027-01	.07	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		Tier IV
13	R2401372-002	SCA-PAR0027-02	.07	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
14	R2401372-005	SCA-PAR0027-05	.07	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
15	R2401372-006	SCA-PAR0027-06	.07	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
16	R2401372-007	SCA-PAR0027-07	.07	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
17	R2401372-008	SCA-PAR0027-08	.07	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
18	R2401414-001	SCA-PAR0028-01	.05	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		Tier IV
19	R2401414-002	SCA-PAR0028-02	.05	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
20	R2401414-003	SCA-PAR0028-03	.05	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
21	R2401415-001	SB915-PAR-0032-01	.01	50mL	6010C/Na T	<2			50.00mL	Colorless-Coudy/Colorless-Clear		Tier IV
22	R2401415-002	SB915-PAR-0032-02	.01	50mL	6010C/Na T	<2			50.00mL	Colorless-Clear		
23	R2401458-001	Outfall #01	.01	50mL	6010C/Al T, Cu T, Pb T, Zn T	<2			50.00mL	Colorless-Coudy/Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 434379 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/CDISTEFANO **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 2/22/24 10:10

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	230954	Logbook Ref:	230954	Expires On:	02/28/2025	Lot #:	2320923-5
Name:	Custom LCS STD B Metals	Inventory ID	230955	Logbook Ref:	230955	Expires On:	02/28/2025	Lot #:	2320908-5
Name:	C Spike	Inventory ID	233797	Logbook Ref:	233797	Expires On:	01/31/2025		

Preparation Materials

1:1 HCl Metals Grade	1:1 232049 (232050)	Hot Block Cups	50mL Lot 2304355 (232860)	Nitric Acid Metals Grade HNO3 231748 (231748)
Thermometer	460 (230830)			

Preparation Steps

Step: Digestion
Started: 2/22/24 10:10
Finished: 2/23/24 11:07
By: CDISTEFANO
Comments

1363 311
1372 W 318
1414 W 318
1415 W 318
1458 314 LCOLCS

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: 2/23/24
Received By: _____ Date: 2/23/24

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 434431 **Prep WorkFlow:** MetDigSICP **Status:** Prepped
Team: Metals/CDISTEFANO **Prep Method:** EPA 3050B **Prep Date/Time:** 2/23/24 08:45

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2401939-01	MB		0.5g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	White-Coarse/Colorless-Clear		HB:12 Well:I2 Temp:93.9C/94.3C
2	RQ2401939-02	LCS		0.5g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	White-Coarse/Colorless-Clear	0.5000 mL/230954; 0.5000 mL/230955; 0.5000 mL/233797	On HB:10:12-10:27,10:30-11:00,11:01-11:31,12:53-13:08,13:10-13:25 Pip:M340,MA100,M380,M38,M33,M23
3	R2401379-001	SW3-3-Comp-022024-1400	.03	0.5500g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		Tier IV
4	R2401435-001	800 Stockpile	.02	0.5200g	6010C/Cd T, Pb T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
5	R2401439-001	OU12 Drum	.03	0.5500g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		Tier IV
6	R2401442-002	POST-SS-41-1-2	.01	0.5500g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		Tier IV
7	R2401442-003	POST-SB-05-4-13	.01	0.5g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
8	RQ2401939-03	R2401442-003 MS	.01	0.5500g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Brown-Medium/Yellow-Clear	0.5000 mL/230955; 0.5000 mL/233797; 0.5000 mL/230954	
9	RQ2401939-04	R2401442-003 DMS	.01	0.5500g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Brown-Medium/Yellow-Clear	0.5000 mL/230954; 0.5000 mL/233797; 0.5000 mL/230955	

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	230954	Logbook Ref:	230954	Expires On:	02/28/2025	Lot #:	2320923-5
Name:	Custom LCS STD B Metals	Inventory ID	230955	Logbook Ref:	230955	Expires On:	02/28/2025	Lot #:	2320908-5
Name:	C Spike	Inventory ID	233797	Logbook Ref:	233797	Expires On:	01/31/2025		

Preparation Information Benchsheet

Prep Run#: 434431
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigSICP
Prep Method: EPA 3050B

Status: Prepped
Prep Date/Time: 2/23/24 08:45

Preparation Materials

1:1 HCl Metals Grade	1:1 232049 (232050)	1:1 Nitric Acid Metals Grade	1:1 231748 (232391)	Boiling Stones PTFE	226047 (226047)
Hot Block Cups	50mL Lot 2304355 (232860)	Nitric Acid Metals Grade HNO3	231748 (231748)	Thermometer	462 (230832)
Hydrogen Peroxide 30% Reagent Grade H2O2	222889 (222889)				

Preparation Steps

Step: Digestion
Started: 2/23/24 08:45
Finished: 2/23/24 13:33
By: CDISTEFANO
Comments

SOILS
1379 (W) 2/28 *
1435 3/4
1439 (W) 2/29 *
1442 (W) 3/8

Comments: _____

Reviewed By: Holly Miller Date: 2/23/24

Chain of Custody

Relinquished By: CD Date: 2/23/24
Received By: R Aor Date: 2/23/24

Extracts Examined
Yes No

Date: 2/23/24 Analyst: CD

Prep Number: 434431 Balance ID: R-Balance-03

Sample	ICP (g)	Hg (g)	Sample Description
R240879-01	0.55	N/A	B-M
R2401435-01	0.52		B-M
R2401439-01	0.55		B-M
R2401442-02	0.55		B-M
1442-03	0.50		B-M
-03 MS	0.55		
-03 DMS	0.55		

CD 2/23/24

Preparation Information Benchsheet

Prep Run#: 434385 **Prep WorkFlow:** MetDigLP **Status:** Prepped
Team: Metals/CDISTEFANO **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 2/22/24 10:56

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2401817-01	MB	.01	50mL	6010C/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP	<2			50.00mL	Colorless-Clear		
2	RQ2401820-01	MB	.01	50mL	6010C/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP	<2			50.00mL	Colorless-Clear		
3	RQ2401913-01	MB		50mL	6010C/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP	<2			50.00mL	Colorless-Clear		HB:1 Well:H1 Temp:91.5C
4	RQ2401913-05	MB		50mL	6010C/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP	<2			50.00mL	Colorless-Clear		Soil Matrix
5	RQ2401913-02	LCS		50mL	6010C/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP	<2			50.00mL	Colorless-Clear	1.0000 mL/233282	On HB:15:29 HB Shutoff:1:29 Pipet/Repipettor:M340,MA100,M28
6	RQ2401913-06	LCS		50mL	6010C/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP	<2			50.00mL	Colorless-Clear	1.0000 mL/233282	Soil Matrix
7	R2401202-001	021424-2 (6 Totes)	.03	50mL	6010C/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP	<2			50.00mL	Grey-Cloudy/Grey-Cloudy		
8	R2401202-002	021424-3 (5 Totes)	.03	50mL	6010C/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP	<2			50.00mL	Grey-Cloudy/Grey-Cloudy		
9	R2401278-001	Post-SB-09-5.7-12	.02	50mL	6010C/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP	<2			50.00mL	Colorless-Clear		Tier IV
10	RQ2401913-03	R2401278-001 MS	.02	50mL	6010C/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP	<2			50.00mL	Colorless-Clear	1.0000 mL/233282	
11	RQ2401913-04	R2401278-001 DMS	.02	50mL	6010C/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP	<2			50.00mL	Colorless-Clear	1.0000 mL/233282	

Spiking Solutions

Name: TCLP Spike Inventory ID 233282 Logbook Ref: 233282 Expires On: 05/09/2024

Preparation Materials

1:1 HCl Metals Grade 1:1 232049 (232050) Hot Block Cups 50mL Lot 2304355 (232860) Nitric Acid Metals Grade HNO3 231748 (231748)
Thermometer 460 (230830)

Preparation Information Benchsheet

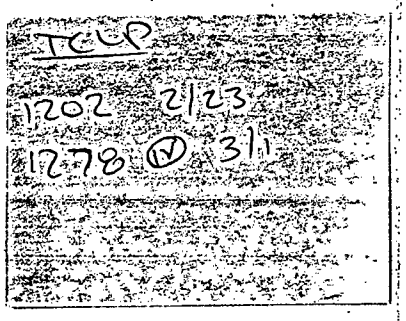
Prep Run#: 434385
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigLP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 2/22/24 10:56

Preparation Steps

Step: Digestion
Started: 2/22/24 10:56
Finished: 2/23/24 11:06
By: CDISTEFANO
Comments



Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By:	(A)	Date:	2/23/24	Extracts Examined
Received By:	R-ADT	Date:	2/23/24	Yes No

SOP: MET-TCLP

Non-VOA TCLP Extraction - EPA 1311

Analyst: EDG 4343/0 | 4343/1

Rotator ID[3]	8			
Date started	2/20/24			
Time started	1450			
RPM (daily when full)	30			
Within 28-32rpm?	Y	2/21/24		
Date ended	2/21/24			
Time ended	0840			

Comments: —

Room Temp Therm ID: 427

°C

Min: 21.3

Max: 22.4

Within Limits (21-25°C)? Y

Comments: —

pH Meter: RPH09

Balance: A-05

HNO3 preservative: ①

Fluid #1 concentrate: 239611 pH 4.93±0.05

Fluid #2 concentrate: — pH 2.88±0.05

Filter Lot: 830407

Filter Date: 2/21/24

Diluted fluid concentrates prepared Daily

Fluid Determination Hotplate:

Thermometer ID:

Temp °C:

Order #	Extraction Vessel ID	Rotator ID	Tests Needed	WTS yield Liquid under Pressure?	Part size Reduced?*	Fluid determination** A. 5g+96.5mL DI 5min g	Start	End	pH	B. If pH >5, add 3.5mL 1N HCl 10m@48-52C Start	End	pH	Sample Amt (g)	Fluid # used	Fluid vol Used (ml)	Filtration Time	pH	% supernatant Filtrate Compatible?	Recombination amount filtrate	amount leachate	Comments
R2401278-001	8 liter	8	metals	N	N	5.39	1010	1015	7.13	1025	1035	2.55	100.96	1	2000ml	1205					
R2401817-01	↓	↓	↓	↓	↓	—	—	—	—	—	—	—	—	↓	↓	1200					
R2401202-001	—	—	metals	—	—	—	—	—	—	—	—	—	—	—	—	1221					WATERS
-002	—	—	↓	—	—	—	—	—	—	—	—	—	—	—	—	1218					FILTER
R2401820-01	—	—	—	—	—	—	—	—	—	—	—	—	—	DI	—	1015					ONLY

Metals extracts matrix spiked prior to preservation? ①

Comments:

① unpreserved / unspiked samples given to metals

Percent Solids Determination, if needed

Order #					
Ws: Weight of sample					
Wc: Tare Wt of container			EDG 2/27/24		
Wcs: Final Wt of container					
%solids = 100 x (Ws-(Wcs-Wc))/Ws					

*Reduce until will pass 9.5mm sieve

**If pH in A or B is <5.0 use fluid 1, if >5.0 use fluid 2.

Volume of ext fluid: 20(%sol)(sample wt)/100.

Preparation Information Benchsheet

Prep Run#: 434310
Team: Semivoa GC/EDEGRAY

Prep WorkFlow: TCLP
Prep Method:

Status: Prepped
Prep Date/Time: 2/21/24 08:20

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2401817-01	MB		100g	EPA 1311/TCLP				2,000.00mL			
2	R2401278-001	Post-SB-09-5.7-12	01	100.9600g	EPA 1311/TCLP				2,000.00mL			

Preparation Steps

Step: Leach
Started: 2/21/24 08:20
Finished: 2/21/24 08:21
By: EDEGRAY
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Preparation Information Benchsheet

Prep Run#: 434311
Team: Semivoa GC/EDEGRAY

Prep WorkFlow: TCLP
Prep Method:

Status: Prepped
Prep Date/Time: 2/21/24 08:22

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2401820-01	MB			EPA 1311/TCLP							
2	R2401202-001	021424-2 (6 Totes)	.02		EPA 1311/TCLP							
3	R2401202-002	021424-3 (5 Totes)	.02		EPA 1311/TCLP							

Preparation Steps

Step: Leach
Started: 2/21/24 08:22
Finished: 2/21/24 08:24
By: EDEGRAY
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extracts Examined
Yes No

Sample Dilutions

Final Volume: 8-10mL

Analyst: MFM
Instrument: ICP-7

Date 2/23/24
Analysis 6010C

Common Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor
1/2	DI	4.5	4.5	1/2												
1/3	DI	3	6	1/3												
1/4	DI	2	6	1/4												
1/5	DI	2	8	1/5												
1/10	DI	1	9	1/10												
1/20	DI	3	3	1/2	1	9	1/20									
1/30	DI	3	6	1/3	1	9	1/30									
1/40	DI	1	3	1/4	1	9	1/40									
1/50	DI	1	4	1/5	1	9	1/50									
1/100	DI	1	9	1/10	1	9	1/100									
1/200	DI	3	3	1/2	1	9	1/20	1	9	1/200						
1/300	DI	3	6	1/3	1	9	1/30	1	9	1/300						
1/400	DI	1	3	1/4	1	9	1/40	1	9	1/400						
1/500	DI	1	4	1/5	1	9	1/50	1	9	1/500						
1/1000	DI	1	9	1/10	1	9	1/100	1	9	1/1000						
1/2000	DI	3	3	1/2	1	9	1/20	1	9	1/200	1	9	1/2000			
1/3000	DI	3	6	1/3	1	9	1/30	1	9	1/300	1	9	1/3000			
1/4000	DI	1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000			
1/10000	DI	1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000			
1/20000	DI	1	1	1/2	1	9	1/20	1	9	1/200	1	9	1/2000	1	9	1/20000
1/40000	DI	1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000	1	9	1/40000
1/100000	DI	1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000	1	9	1/100000

Special Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833320 **Method/Testcode:** 6010C/Zn T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R2400831-014	Zinc, Total	N/A		Soil	0.00 ppm	0.5 g	2.0 mg/Kg U	1	1.4	2.0			2/23/24 14:06:00	N	II
RQ2401512-06	Zinc, Total	MDLV		Soil	0.00 ppm	0.5 g	2.0 mg/Kg U	1	1.4	2.0			2/23/24 14:06:00	N	II
R2401280-018	Iron, Dissolved	N/A		Water	2.87 ppm	50 mL	57400 µg/L	20	1300	2000			2/23/24 14:16:00	Y	IV
RQ2401789-03	Iron, Dissolved	MS	R2401280-018	Water	2.84 ppm	50 mL	56800 µg/L	20	1300	2000	-59*	7	2/23/24 14:19:00	N	IV
RQ2401789-04	Iron, Dissolved	DMS	R2401280-018	Water	2.72 ppm	50 mL	54300 µg/L	20	1300	2000	-308*	4	2/23/24 14:22:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833321 **Method/Testcode:** 6010C/Al T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2401907-01	Aluminum, Total	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	30	100			2/23/24 15:04:00	N	IV
KQ2401907-01	Antimony, Total	MB		Water	0.01 ppm	50 mL	11 µg/L J	1	11	60			2/23/24 15:04:00	N	IV
KQ2401907-01	Arsenic, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/23/24 15:04:00	N	IV
KQ2401907-01	Barium, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	3	20			2/23/24 15:04:00	N	IV
KQ2401907-01	Beryllium, Total	MB		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.2	3.0			2/23/24 15:04:00	N	IV
KQ2401907-01	Boron, Total	MB		Water	0.00 ppm	50 mL	200 µg/L U	1	20	200			2/23/24 15:04:00	N	IV
KQ2401907-01	Cadmium, Total	MB		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.4	5.0			2/23/24 15:04:00	N	IV
KQ2401907-01	Calcium, Total	MB		Water	0.01 ppm	50 mL	1000 µg/L U	1	300	1000			2/23/24 15:04:00	N	IV
KQ2401907-01	Chromium, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			2/23/24 15:04:00	N	IV
KQ2401907-01	Cobalt, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	0.9	50			2/23/24 15:04:00	N	IV
KQ2401907-01	Copper, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	4	20			2/23/24 15:04:00	N	IV
KQ2401907-01	Iron, Total	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	70	100			2/23/24 15:04:00	N	IV
KQ2401907-01	Lead, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			2/23/24 15:04:00	N	IV
KQ2401907-01	Magnesium, Total	MB		Water	0.00 ppm	50 mL	1000 µg/L U	1	30	1000			2/23/24 15:04:00	N	IV
KQ2401907-01	Manganese, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			2/23/24 15:04:00	N	IV
KQ2401907-01	Molybdenum, Total	MB		Water	0.00 ppm	50 mL	25 µg/L U	1	3	25			2/23/24 15:04:00	N	IV
KQ2401907-01	Nickel, Total	MB		Water	0.00 ppm	50 mL	40 µg/L U	1	3	40			2/23/24 15:04:00	N	IV
KQ2401907-01	Potassium, Total	MB		Water	0.11 ppm	50 mL	2000 µg/L U	1	400	2000			2/23/24 15:04:00	N	IV
KQ2401907-01	Selenium, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	7	10			2/23/24 15:04:00	N	IV
KQ2401907-01	Silver, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	0.6	10			2/23/24 15:04:00	N	IV
KQ2401907-01	Sodium, Total	MB		Water	0.06 ppm	50 mL	1000 µg/L U	1	300	1000			2/23/24 15:04:00	N	IV
KQ2401907-01	Strontium, Total	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	2	100			2/23/24 15:04:00	N	IV
KQ2401907-01	Thallium, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	8	10			2/23/24 15:04:00	N	IV
KQ2401907-01	Tin, Total	MB		Water	0.00 ppm	50 mL	500 µg/L U	1	8	500			2/23/24 15:04:00	N	IV
KQ2401907-01	Vanadium, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	0.7	50			2/23/24 15:04:00	N	IV
KQ2401907-01	Zinc, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	3	20			2/23/24 15:04:00	N	IV
KQ2401907-02	Aluminum, Total	LCS		Water	1.94 ppm	50 mL	1940 µg/L	1	30	100	97		2/23/24 15:08:00	N	IV
KQ2401907-02	Antimony, Total	LCS		Water	0.50 ppm	50 mL	502 µg/L	1	11	60	100		2/23/24 15:08:00	N	IV
KQ2401907-02	Arsenic, Total	LCS		Water	0.04 ppm	50 mL	40.4 µg/L	1	6	10	101		2/23/24 15:08:00	N	IV
KQ2401907-02	Barium, Total	LCS		Water	2.04 ppm	50 mL	2040 µg/L	1	3	20	102		2/23/24 15:08:00	N	IV
KQ2401907-02	Beryllium, Total	LCS		Water	0.05 ppm	50 mL	48.1 µg/L	1	0.2	3.0	96		2/23/24 15:08:00	N	IV
KQ2401907-02	Boron, Total	LCS		Water	0.98 ppm	50 mL	979 µg/L	1	20	200	98		2/23/24 15:08:00	N	IV
KQ2401907-02	Cadmium, Total	LCS		Water	0.05 ppm	50 mL	51.4 µg/L	1	0.4	5.0	103		2/23/24 15:08:00	N	IV
KQ2401907-02	Calcium, Total	LCS		Water	2.01 ppm	50 mL	2010 µg/L	1	300	1000	101		2/23/24 15:08:00	N	IV
KQ2401907-02	Chromium, Total	LCS		Water	0.20 ppm	50 mL	202 µg/L	1	2	10	101		2/23/24 15:08:00	N	IV
KQ2401907-02	Cobalt, Total	LCS		Water	0.51 ppm	50 mL	514 µg/L	1	0.9	50	103		2/23/24 15:08:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833321 **Method/Testcode:** 6010C/Cu T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2401907-02	Copper, Total	LCS		Water	0.25 ppm	50 mL	250 µg/L	1	4	20	100		2/23/24 15:08:00	N	IV
KQ2401907-02	Iron, Total	LCS		Water	0.99 ppm	50 mL	992 µg/L	1	70	100	99		2/23/24 15:08:00	N	IV
KQ2401907-02	Lead, Total	LCS		Water	0.51 ppm	50 mL	510 µg/L	1	4	50	102		2/23/24 15:08:00	N	IV
KQ2401907-02	Magnesium, Total	LCS		Water	1.97 ppm	50 mL	1970 µg/L	1	30	1000	98		2/23/24 15:08:00	N	IV
KQ2401907-02	Manganese, Total	LCS		Water	0.49 ppm	50 mL	491 µg/L	1	4	10	98		2/23/24 15:08:00	N	IV
KQ2401907-02	Molybdenum, Total	LCS		Water	0.48 ppm	50 mL	485 µg/L	1	3	25	97		2/23/24 15:08:00	N	IV
KQ2401907-02	Nickel, Total	LCS		Water	0.53 ppm	50 mL	527 µg/L	1	3	40	105		2/23/24 15:08:00	N	IV
KQ2401907-02	Potassium, Total	LCS		Water	18.83 ppm	50 mL	18800 µg/L	1	400	2000	94		2/23/24 15:08:00	N	IV
KQ2401907-02	Selenium, Total	LCS		Water	1.00 ppm	50 mL	1000 µg/L	1	7	10	99		2/23/24 15:08:00	N	IV
KQ2401907-02	Silver, Total	LCS		Water	0.05 ppm	50 mL	51.3 µg/L	1	0.6	10	103		2/23/24 15:08:00	N	IV
KQ2401907-02	Sodium, Total	LCS		Water	19.52 ppm	50 mL	19500 µg/L	1	300	1000	98		2/23/24 15:08:00	N	IV
KQ2401907-02	Strontium, Total	LCS		Water	2.01 ppm	50 mL	2010 µg/L	1	2	100	100		2/23/24 15:08:00	N	IV
KQ2401907-02	Thallium, Total	LCS		Water	2.01 ppm	50 mL	2010 µg/L	1	8	10	101		2/23/24 15:08:00	N	IV
KQ2401907-02	Tin, Total	LCS		Water	5.01 ppm	50 mL	5010 µg/L	1	8	500	100		2/23/24 15:08:00	N	IV
KQ2401907-02	Vanadium, Total	LCS		Water	0.49 ppm	50 mL	490 µg/L	1	0.7	50	98		2/23/24 15:08:00	N	IV
KQ2401907-02	Zinc, Total	LCS		Water	0.51 ppm	50 mL	512 µg/L	1	3	20	102		2/23/24 15:08:00	N	IV
KQ2401907-03	Aluminum, Total	DLCS		Water	1.94 ppm	50 mL	1940 µg/L	1	30	100	97	<1	2/23/24 15:11:00	N	IV
KQ2401907-03	Antimony, Total	DLCS		Water	0.50 ppm	50 mL	504 µg/L	1	11	60	101	<1	2/23/24 15:11:00	N	IV
KQ2401907-03	Arsenic, Total	DLCS		Water	0.04 ppm	50 mL	41.4 µg/L	1	6	10	104	2	2/23/24 15:11:00	N	IV
KQ2401907-03	Barium, Total	DLCS		Water	2.04 ppm	50 mL	2040 µg/L	1	3	20	102	<1	2/23/24 15:11:00	N	IV
KQ2401907-03	Beryllium, Total	DLCS		Water	0.05 ppm	50 mL	48.2 µg/L	1	0.2	3.0	96	<1	2/23/24 15:11:00	N	IV
KQ2401907-03	Boron, Total	DLCS		Water	0.98 ppm	50 mL	981 µg/L	1	20	200	98	<1	2/23/24 15:11:00	N	IV
KQ2401907-03	Cadmium, Total	DLCS		Water	0.05 ppm	50 mL	51.4 µg/L	1	0.4	5.0	103	<1	2/23/24 15:11:00	N	IV
KQ2401907-03	Calcium, Total	DLCS		Water	2.02 ppm	50 mL	2020 µg/L	1	300	1000	101	<1	2/23/24 15:11:00	N	IV
KQ2401907-03	Chromium, Total	DLCS		Water	0.20 ppm	50 mL	201 µg/L	1	2	10	101	<1	2/23/24 15:11:00	N	IV
KQ2401907-03	Cobalt, Total	DLCS		Water	0.51 ppm	50 mL	514 µg/L	1	0.9	50	103	<1	2/23/24 15:11:00	N	IV
KQ2401907-03	Copper, Total	DLCS		Water	0.25 ppm	50 mL	251 µg/L	1	4	20	100	<1	2/23/24 15:11:00	N	IV
KQ2401907-03	Iron, Total	DLCS		Water	0.99 ppm	50 mL	993 µg/L	1	70	100	99	<1	2/23/24 15:11:00	N	IV
KQ2401907-03	Lead, Total	DLCS		Water	0.51 ppm	50 mL	510 µg/L	1	4	50	102	<1	2/23/24 15:11:00	N	IV
KQ2401907-03	Magnesium, Total	DLCS		Water	1.97 ppm	50 mL	1970 µg/L	1	30	1000	98	<1	2/23/24 15:11:00	N	IV
KQ2401907-03	Manganese, Total	DLCS		Water	0.49 ppm	50 mL	492 µg/L	1	4	10	98	<1	2/23/24 15:11:00	N	IV
KQ2401907-03	Molybdenum, Total	DLCS		Water	0.49 ppm	50 mL	489 µg/L	1	3	25	98	<1	2/23/24 15:11:00	N	IV
KQ2401907-03	Nickel, Total	DLCS		Water	0.53 ppm	50 mL	528 µg/L	1	3	40	106	<1	2/23/24 15:11:00	N	IV
KQ2401907-03	Potassium, Total	DLCS		Water	18.87 ppm	50 mL	18900 µg/L	1	400	2000	94	<1	2/23/24 15:11:00	N	IV
KQ2401907-03	Selenium, Total	DLCS		Water	1.01 ppm	50 mL	1010 µg/L	1	7	10	100	<1	2/23/24 15:11:00	N	IV
KQ2401907-03	Silver, Total	DLCS		Water	0.05 ppm	50 mL	51.5 µg/L	1	0.6	10	103	<1	2/23/24 15:11:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833321 **Method/Testcode:** 6010C/Na T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2401907-03	Sodium, Total	DLCS		Water	19.55 ppm	50 mL	19600 µg/L	1	300	1000	98	<1	2/23/24 15:11:00	N	IV
KQ2401907-03	Strontium, Total	DLCS		Water	2.01 ppm	50 mL	2010 µg/L	1	2	100	101	<1	2/23/24 15:11:00	N	IV
KQ2401907-03	Thallium, Total	DLCS		Water	2.01 ppm	50 mL	2010 µg/L	1	8	10	101	<1	2/23/24 15:11:00	N	IV
KQ2401907-03	Tin, Total	DLCS		Water	5.03 ppm	50 mL	5030 µg/L	1	8	500	101	<1	2/23/24 15:11:00	N	IV
KQ2401907-03	Vanadium, Total	DLCS		Water	0.49 ppm	50 mL	490 µg/L	1	0.7	50	98	<1	2/23/24 15:11:00	N	IV
KQ2401907-03	Zinc, Total	DLCS		Water	0.51 ppm	50 mL	513 µg/L	1	3	20	103	<1	2/23/24 15:11:00	N	IV
K2401363-001	Aluminum, Total	N/A		Water	0.01 ppm	50 mL	0.10 mg/L U	1	0.03	0.10			2/23/24 15:14:00	N	IV
K2401363-001	Barium, Total	N/A		Water	0.03 ppm	50 mL	0.028 mg/L	1	0.003	0.020			2/23/24 15:14:00	N	IV
K2401363-001	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	0.0030 mg/L U	1	0.0002	0.0030			2/23/24 15:14:00	N	IV
K2401363-001	Boron, Total	N/A		Water	0.09 ppm	50 mL	0.09 mg/L J	1	0.02	0.20			2/23/24 15:14:00	N	IV
K2401363-001	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0004	0.0050			2/23/24 15:14:00	N	IV
K2401363-001	Calcium, Total	N/A		Water	127.56 ppm	50 mL	128 mg/L	1	0.3	1.0			2/23/24 15:14:00	N	IV
K2401363-001	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			2/23/24 15:14:00	N	IV
K2401363-001	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.0009	0.050			2/23/24 15:14:00	N	IV
K2401363-001	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.004	0.020			2/23/24 15:14:00	N	IV
K2401363-001	Iron, Total	N/A		Water	0.01 ppm	50 mL	0.10 mg/L U	1	0.07	0.10			2/23/24 15:14:00	N	IV
K2401363-001	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			2/23/24 15:14:00	N	IV
K2401363-001	Magnesium, Total	N/A		Water	64.58 ppm	50 mL	64.6 mg/L	1	0.03	1.0			2/23/24 15:14:00	N	IV
K2401363-001	Manganese, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.004	0.010			2/23/24 15:14:00	N	IV
K2401363-001	Molybdenum, Total	N/A		Water	0.01 ppm	50 mL	0.014 mg/L J	1	0.003	0.025			2/23/24 15:14:00	N	IV
K2401363-001	Nickel, Total	N/A		Water	0.00 ppm	50 mL	0.040 mg/L U	1	0.003	0.040			2/23/24 15:14:00	N	IV
K2401363-001	Potassium, Total	N/A		Water	3.66 ppm	50 mL	3.7 mg/L	1	0.4	2.0			2/23/24 15:14:00	N	IV
K2401363-001	Selenium, Total	N/A		Water	0.01 ppm	50 mL	0.010 mg/L U	1	0.007	0.010			2/23/24 15:14:00	N	IV
K2401363-001	Silver, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.0006	0.010			2/23/24 15:14:00	N	IV
K2401363-001	Sodium, Total	N/A		Water	42.02 ppm	50 mL	42.0 mg/L	1	0.3	1.0			2/23/24 15:14:00	N	IV
K2401363-001	Strontium, Total	N/A		Water	2.08 ppm	50 mL	2.08 mg/L	1	0.002	0.10			2/23/24 15:14:00	N	IV
K2401363-001	Tin, Total	N/A		Water	0.00 ppm	50 mL	0.50 mg/L U	1	0.008	0.50			2/23/24 15:14:00	N	IV
K2401363-001	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	0.001 mg/L J	1	0.0007	0.050			2/23/24 15:14:00	N	IV
K2401363-001	Zinc, Total	N/A		Water	0.02 ppm	50 mL	0.022 mg/L	1	0.003	0.020			2/23/24 15:14:00	N	IV
K2401363-006	Aluminum, Total	N/A		Water	0.00 ppm	50 mL	0.10 mg/L U	1	0.03	0.10			2/23/24 15:17:00	N	IV
K2401363-006	Barium, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.003	0.020			2/23/24 15:17:00	N	IV
K2401363-006	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	0.0030 mg/L U	1	0.0002	0.0030			2/23/24 15:17:00	N	IV
K2401363-006	Boron, Total	N/A		Water	0.00 ppm	50 mL	0.20 mg/L U	1	0.02	0.20			2/23/24 15:17:00	N	IV
K2401363-006	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0004	0.0050			2/23/24 15:17:00	N	IV
K2401363-006	Calcium, Total	N/A		Water	0.19 ppm	50 mL	1.0 mg/L U	1	0.3	1.0			2/23/24 15:17:00	N	IV
K2401363-006	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			2/23/24 15:17:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833321 **Method/Testcode:** 6010C/Co T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2401363-006	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.0009	0.050			2/23/24 15:17:00	N	IV
2401363-006	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.004	0.020			2/23/24 15:17:00	N	IV
2401363-006	Iron, Total	N/A		Water	0.00 ppm	50 mL	0.10 mg/L U	1	0.07	0.10			2/23/24 15:17:00	N	IV
2401363-006	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			2/23/24 15:17:00	N	IV
2401363-006	Magnesium, Total	N/A		Water	0.06 ppm	50 mL	0.06 mg/L J	1	0.03	1.0			2/23/24 15:17:00	N	IV
2401363-006	Manganese, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.004	0.010			2/23/24 15:17:00	N	IV
2401363-006	Molybdenum, Total	N/A		Water	0.00 ppm	50 mL	0.025 mg/L U	1	0.003	0.025			2/23/24 15:17:00	N	IV
2401363-006	Nickel, Total	N/A		Water	0.00 ppm	50 mL	0.040 mg/L U	1	0.003	0.040			2/23/24 15:17:00	N	IV
2401363-006	Potassium, Total	N/A		Water	0.10 ppm	50 mL	2.0 mg/L U	1	0.4	2.0			2/23/24 15:17:00	N	IV
2401363-006	Selenium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.007	0.010			2/23/24 15:17:00	N	IV
2401363-006	Silver, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.0006	0.010			2/23/24 15:17:00	N	IV
2401363-006	Sodium, Total	N/A		Water	0.07 ppm	50 mL	1.0 mg/L U	1	0.3	1.0			2/23/24 15:17:00	N	IV
2401363-006	Strontium, Total	N/A		Water	0.00 ppm	50 mL	0.003 mg/L J	1	0.002	0.10			2/23/24 15:17:00	N	IV
2401363-006	Tin, Total	N/A		Water	0.00 ppm	50 mL	0.50 mg/L U	1	0.008	0.50			2/23/24 15:17:00	N	IV
2401363-006	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.0007	0.050			2/23/24 15:17:00	N	IV
2401363-006	Zinc, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.003	0.020			2/23/24 15:17:00	N	IV
2401363-007	Aluminum, Total	N/A		Water	0.00 ppm	50 mL	0.10 mg/L U	1	0.03	0.10			2/23/24 15:20:00	N	IV
2401363-007	Barium, Total	N/A		Water	0.03 ppm	50 mL	0.032 mg/L	1	0.003	0.020			2/23/24 15:20:00	N	IV
2401363-007	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	0.0030 mg/L U	1	0.0002	0.0030			2/23/24 15:20:00	N	IV
2401363-007	Boron, Total	N/A		Water	0.07 ppm	50 mL	0.07 mg/L J	1	0.02	0.20			2/23/24 15:20:00	N	IV
2401363-007	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0004	0.0050			2/23/24 15:20:00	N	IV
2401363-007	Calcium, Total	N/A		Water	129.74 ppm	50 mL	130 mg/L	1	0.3	1.0			2/23/24 15:20:00	N	IV
2401363-007	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			2/23/24 15:20:00	N	IV
2401363-007	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.0009	0.050			2/23/24 15:20:00	N	IV
2401363-007	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.004	0.020			2/23/24 15:20:00	N	IV
2401363-007	Iron, Total	N/A		Water	0.00 ppm	50 mL	0.10 mg/L U	1	0.07	0.10			2/23/24 15:20:00	N	IV
2401363-007	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			2/23/24 15:20:00	N	IV
2401363-007	Magnesium, Total	N/A		Water	68.63 ppm	50 mL	68.6 mg/L	1	0.03	1.0			2/23/24 15:20:00	N	IV
2401363-007	Manganese, Total	N/A		Water	0.01 ppm	50 mL	0.006 mg/L J	1	0.004	0.010			2/23/24 15:20:00	N	IV
2401363-007	Molybdenum, Total	N/A		Water	0.01 ppm	50 mL	0.013 mg/L J	1	0.003	0.025			2/23/24 15:20:00	N	IV
2401363-007	Nickel, Total	N/A		Water	0.00 ppm	50 mL	0.040 mg/L U	1	0.003	0.040			2/23/24 15:20:00	N	IV
2401363-007	Potassium, Total	N/A		Water	2.80 ppm	50 mL	2.8 mg/L	1	0.4	2.0			2/23/24 15:20:00	N	IV
2401363-007	Selenium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.007	0.010			2/23/24 15:20:00	N	IV
2401363-007	Silver, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.0006	0.010			2/23/24 15:20:00	N	IV
2401363-007	Sodium, Total	N/A		Water	41.28 ppm	50 mL	41.3 mg/L	1	0.3	1.0			2/23/24 15:20:00	N	IV
2401363-007	Strontium, Total	N/A		Water	2.58 ppm	50 mL	2.58 mg/L	1	0.002	0.10			2/23/24 15:20:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833321 **Method/Testcode:** 6010C/Sn T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2401363-007	Tin, Total	N/A		Water	0.00 ppm	50 mL	0.50 mg/L U	1	0.008	0.50			2/23/24 15:20:00	N	IV
2401363-007	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.0007	0.050			2/23/24 15:20:00	N	IV
2401363-007	Zinc, Total	N/A		Water	0.01 ppm	50 mL	0.011 mg/L J	1	0.003	0.020			2/23/24 15:20:00	N	IV
2401363-008	Aluminum, Total	N/A		Water	0.01 ppm	50 mL	0.10 mg/L U	1	0.03	0.10			2/23/24 15:24:00	N	IV
2401363-008	Barium, Total	N/A		Water	0.02 ppm	50 mL	0.017 mg/L J	1	0.003	0.020			2/23/24 15:24:00	N	IV
2401363-008	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	0.0030 mg/L U	1	0.0002	0.0030			2/23/24 15:24:00	N	IV
2401363-008	Boron, Total	N/A		Water	0.18 ppm	50 mL	0.18 mg/L J	1	0.02	0.20			2/23/24 15:24:00	N	IV
2401363-008	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0004	0.0050			2/23/24 15:24:00	N	IV
2401363-008	Calcium, Total	N/A		Water	52.37 ppm	50 mL	52.4 mg/L	1	0.3	1.0			2/23/24 15:24:00	N	IV
2401363-008	Chromium, Total	N/A		Water	0.03 ppm	50 mL	0.030 mg/L	1	0.002	0.010			2/23/24 15:24:00	N	IV
2401363-008	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.0009	0.050			2/23/24 15:24:00	N	IV
2401363-008	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.004	0.020			2/23/24 15:24:00	N	IV
2401363-008	Iron, Total	N/A		Water	0.02 ppm	50 mL	0.10 mg/L U	1	0.07	0.10			2/23/24 15:24:00	N	IV
2401363-008	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			2/23/24 15:24:00	N	IV
2401363-008	Magnesium, Total	N/A		Water	8.83 ppm	50 mL	8.8 mg/L	1	0.03	1.0			2/23/24 15:24:00	N	IV
2401363-008	Manganese, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.004	0.010			2/23/24 15:24:00	N	IV
2401363-008	Molybdenum, Total	N/A		Water	0.03 ppm	50 mL	0.027 mg/L	1	0.003	0.025			2/23/24 15:24:00	N	IV
2401363-008	Nickel, Total	N/A		Water	0.00 ppm	50 mL	0.040 mg/L U	1	0.003	0.040			2/23/24 15:24:00	N	IV
2401363-008	Potassium, Total	N/A		Water	1.70 ppm	50 mL	1.7 mg/L J	1	0.4	2.0			2/23/24 15:24:00	N	IV
2401363-008	Selenium, Total	N/A		Water	0.01 ppm	50 mL	0.007 mg/L J	1	0.007	0.010			2/23/24 15:24:00	N	IV
2401363-008	Silver, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.0006	0.010			2/23/24 15:24:00	N	IV
2401363-008	Sodium, Total	N/A		Water	110.90 ppm	50 mL	111 mg/L	1	0.3	1.0			2/23/24 15:24:00	N	IV
2401363-008	Strontium, Total	N/A		Water	2.37 ppm	50 mL	2.37 mg/L	1	0.002	0.10			2/23/24 15:24:00	N	IV
2401363-008	Tin, Total	N/A		Water	0.00 ppm	50 mL	0.50 mg/L U	1	0.008	0.50			2/23/24 15:24:00	N	IV
2401363-008	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	0.005 mg/L J	1	0.0007	0.050			2/23/24 15:24:00	N	IV
2401363-008	Zinc, Total	N/A		Water	0.00 ppm	50 mL	0.004 mg/L J	1	0.003	0.020			2/23/24 15:24:00	N	IV
2401363-015	Aluminum, Total	N/A		Water	0.07 ppm	50 mL	0.07 mg/L J	1	0.03	0.10			2/23/24 15:27:00	N	IV
2401363-015	Barium, Total	N/A		Water	0.05 ppm	50 mL	0.045 mg/L	1	0.003	0.020			2/23/24 15:27:00	N	IV
2401363-015	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	0.0030 mg/L U	1	0.0002	0.0030			2/23/24 15:27:00	N	IV
2401363-015	Boron, Total	N/A		Water	0.22 ppm	50 mL	0.22 mg/L	1	0.02	0.20			2/23/24 15:27:00	N	IV
2401363-015	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0004	0.0050			2/23/24 15:27:00	N	IV
2401363-015	Calcium, Total	N/A		Water	91.04 ppm	50 mL	91.0 mg/L	1	0.3	1.0			2/23/24 15:27:00	N	IV
2401363-015	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			2/23/24 15:27:00	N	IV
2401363-015	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.0009	0.050			2/23/24 15:27:00	N	IV
2401363-015	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.004	0.020			2/23/24 15:27:00	N	IV
2401363-015	Iron, Total	N/A		Water	0.03 ppm	50 mL	0.10 mg/L U	1	0.07	0.10			2/23/24 15:27:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833321 **Method/Testcode:** 6010C/Pb T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2401363-015	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			2/23/24 15:27:00	N	IV
2401363-015	Magnesium, Total	N/A		Water	22.55 ppm	50 mL	22.5 mg/L	1	0.03	1.0			2/23/24 15:27:00	N	IV
2401363-015	Manganese, Total	N/A		Water	0.01 ppm	50 mL	0.013 mg/L	1	0.004	0.010			2/23/24 15:27:00	N	IV
2401363-015	Molybdenum, Total	N/A		Water	0.01 ppm	50 mL	0.012 mg/L J	1	0.003	0.025			2/23/24 15:27:00	N	IV
2401363-015	Nickel, Total	N/A		Water	0.00 ppm	50 mL	0.040 mg/L U	1	0.003	0.040			2/23/24 15:27:00	N	IV
2401363-015	Potassium, Total	N/A		Water	3.12 ppm	50 mL	3.1 mg/L	1	0.4	2.0			2/23/24 15:27:00	N	IV
2401363-015	Selenium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.007	0.010			2/23/24 15:27:00	N	IV
2401363-015	Silver, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.0006	0.010			2/23/24 15:27:00	N	IV
2401363-015	Sodium, Total	N/A		Water	118.44 ppm	50 mL	118 mg/L	1	0.3	1.0			2/23/24 15:27:00	N	IV
2401363-015	Strontium, Total	N/A		Water	4.43 ppm	50 mL	4.43 mg/L	1	0.002	0.10			2/23/24 15:27:00	N	IV
2401363-015	Tin, Total	N/A		Water	0.00 ppm	50 mL	0.50 mg/L U	1	0.008	0.50			2/23/24 15:27:00	N	IV
2401363-015	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	0.005 mg/L J	1	0.0007	0.050			2/23/24 15:27:00	N	IV
2401363-015	Zinc, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.003	0.020			2/23/24 15:27:00	N	IV
2401363-018	Aluminum, Total	N/A		Water	0.00 ppm	50 mL	0.10 mg/L U	1	0.03	0.10			2/23/24 15:30:00	N	IV
2401363-018	Barium, Total	N/A		Water	0.02 ppm	50 mL	0.024 mg/L	1	0.003	0.020			2/23/24 15:30:00	N	IV
2401363-018	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	0.0030 mg/L U	1	0.0002	0.0030			2/23/24 15:30:00	N	IV
2401363-018	Boron, Total	N/A		Water	0.22 ppm	50 mL	0.22 mg/L	1	0.02	0.20			2/23/24 15:30:00	N	IV
2401363-018	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0004	0.0050			2/23/24 15:30:00	N	IV
2401363-018	Calcium, Total	N/A		Water	91.25 ppm	50 mL	91.2 mg/L	1	0.3	1.0			2/23/24 15:30:00	N	IV
2401363-018	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			2/23/24 15:30:00	N	IV
2401363-018	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.0009	0.050			2/23/24 15:30:00	N	IV
2401363-018	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.004	0.020			2/23/24 15:30:00	N	IV
2401363-018	Iron, Total	N/A		Water	0.01 ppm	50 mL	0.10 mg/L U	1	0.07	0.10			2/23/24 15:30:00	N	IV
2401363-018	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			2/23/24 15:30:00	N	IV
2401363-018	Magnesium, Total	N/A		Water	58.23 ppm	50 mL	58.2 mg/L	1	0.03	1.0			2/23/24 15:30:00	N	IV
2401363-018	Manganese, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.004	0.010			2/23/24 15:30:00	N	IV
2401363-018	Molybdenum, Total	N/A		Water	0.01 ppm	50 mL	0.007 mg/L J	1	0.003	0.025			2/23/24 15:30:00	N	IV
2401363-018	Nickel, Total	N/A		Water	0.00 ppm	50 mL	0.040 mg/L U	1	0.003	0.040			2/23/24 15:30:00	N	IV
2401363-018	Potassium, Total	N/A		Water	2.51 ppm	50 mL	2.5 mg/L	1	0.4	2.0			2/23/24 15:30:00	N	IV
2401363-018	Selenium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.007	0.010			2/23/24 15:30:00	N	IV
2401363-018	Silver, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.0006	0.010			2/23/24 15:30:00	N	IV
2401363-018	Sodium, Total	N/A		Water	99.10 ppm	50 mL	99.1 mg/L	1	0.3	1.0			2/23/24 15:30:00	N	IV
2401363-018	Strontium, Total	N/A		Water	1.69 ppm	50 mL	1.69 mg/L	1	0.002	0.10			2/23/24 15:30:00	N	IV
2401363-018	Tin, Total	N/A		Water	0.00 ppm	50 mL	0.50 mg/L U	1	0.008	0.50			2/23/24 15:30:00	N	IV
2401363-018	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	0.002 mg/L J	1	0.0007	0.050			2/23/24 15:30:00	N	IV
2401363-018	Zinc, Total	N/A		Water	0.01 ppm	50 mL	0.013 mg/L J	1	0.003	0.020			2/23/24 15:30:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833321 **Method/Testcode:** 6010C/Al T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2401363-019	Aluminum, Total	N/A		Water	0.03 ppm	50 mL	0.03 mg/L J	1	0.03	0.10			2/23/24 15:33:00	N	IV
2401363-019	Barium, Total	N/A		Water	0.03 ppm	50 mL	0.032 mg/L	1	0.003	0.020			2/23/24 15:33:00	N	IV
2401363-019	Beryllium, Total	N/A		Water	0.03 ppm	50 mL	0.0291 mg/L	1	0.0002	0.0030			2/23/24 15:33:00	N	IV
2401363-019	Boron, Total	N/A		Water	0.03 ppm	50 mL	0.03 mg/L J	1	0.02	0.20			2/23/24 15:33:00	N	IV
2401363-019	Cadmium, Total	N/A		Water	0.03 ppm	50 mL	0.0313 mg/L	1	0.0004	0.0050			2/23/24 15:33:00	N	IV
2401363-019	Calcium, Total	N/A		Water	0.04 ppm	50 mL	1.0 mg/L U	1	0.3	1.0			2/23/24 15:33:00	N	IV
2401363-019	Chromium, Total	N/A		Water	0.03 ppm	50 mL	0.032 mg/L	1	0.002	0.010			2/23/24 15:33:00	N	IV
2401363-019	Cobalt, Total	N/A		Water	0.03 ppm	50 mL	0.032 mg/L J	1	0.0009	0.050			2/23/24 15:33:00	N	IV
2401363-019	Copper, Total	N/A		Water	0.03 ppm	50 mL	0.031 mg/L	1	0.004	0.020			2/23/24 15:33:00	N	IV
2401363-019	Iron, Total	N/A		Water	0.04 ppm	50 mL	0.10 mg/L U	1	0.07	0.10			2/23/24 15:33:00	N	IV
2401363-019	Lead, Total	N/A		Water	0.03 ppm	50 mL	0.031 mg/L J	1	0.004	0.050			2/23/24 15:33:00	N	IV
2401363-019	Magnesium, Total	N/A		Water	0.03 ppm	50 mL	0.03 mg/L J	1	0.03	1.0			2/23/24 15:33:00	N	IV
2401363-019	Manganese, Total	N/A		Water	0.03 ppm	50 mL	0.032 mg/L	1	0.004	0.010			2/23/24 15:33:00	N	IV
2401363-019	Molybdenum, Total	N/A		Water	0.00 ppm	50 mL	0.025 mg/L U	1	0.003	0.025			2/23/24 15:33:00	N	IV
2401363-019	Nickel, Total	N/A		Water	0.03 ppm	50 mL	0.032 mg/L J	1	0.003	0.040			2/23/24 15:33:00	N	IV
2401363-019	Potassium, Total	N/A		Water	0.10 ppm	50 mL	2.0 mg/L U	1	0.4	2.0			2/23/24 15:33:00	N	IV
2401363-019	Selenium, Total	N/A		Water	0.02 ppm	50 mL	0.023 mg/L	1	0.007	0.010			2/23/24 15:33:00	N	IV
2401363-019	Silver, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.0006	0.010			2/23/24 15:33:00	N	IV
2401363-019	Sodium, Total	N/A		Water	0.16 ppm	50 mL	1.0 mg/L U	1	0.3	1.0			2/23/24 15:33:00	N	IV
2401363-019	Strontium, Total	N/A		Water	0.03 ppm	50 mL	0.03 mg/L J	1	0.002	0.10			2/23/24 15:33:00	N	IV
2401363-019	Tin, Total	N/A		Water	0.00 ppm	50 mL	0.50 mg/L U	1	0.008	0.50			2/23/24 15:33:00	N	IV
2401363-019	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.0007	0.050			2/23/24 15:33:00	N	IV
2401363-019	Zinc, Total	N/A		Water	0.03 ppm	50 mL	0.031 mg/L	1	0.003	0.020			2/23/24 15:33:00	N	IV
2401363-023	Aluminum, Total	N/A		Water	0.00 ppm	50 mL	0.10 mg/L U	1	0.03	0.10			2/23/24 15:43:00	N	IV
2401363-023	Barium, Total	N/A		Water	0.02 ppm	50 mL	0.024 mg/L	1	0.003	0.020			2/23/24 15:43:00	N	IV
2401363-023	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	0.0030 mg/L U	1	0.0002	0.0030			2/23/24 15:43:00	N	IV
2401363-023	Boron, Total	N/A		Water	0.08 ppm	50 mL	0.08 mg/L J	1	0.02	0.20			2/23/24 15:43:00	N	IV
2401363-023	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0004	0.0050			2/23/24 15:43:00	N	IV
2401363-023	Calcium, Total	N/A		Water	143.23 ppm	50 mL	143 mg/L	1	0.3	1.0			2/23/24 15:43:00	N	IV
2401363-023	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			2/23/24 15:43:00	N	IV
2401363-023	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.0009	0.050			2/23/24 15:43:00	N	IV
2401363-023	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.004	0.020			2/23/24 15:43:00	N	IV
2401363-023	Iron, Total	N/A		Water	0.46 ppm	50 mL	0.46 mg/L	1	0.07	0.10			2/23/24 15:43:00	N	IV
2401363-023	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			2/23/24 15:43:00	N	IV
2401363-023	Magnesium, Total	N/A		Water	78.51 ppm	50 mL	78.5 mg/L	1	0.03	1.0			2/23/24 15:43:00	N	IV
2401363-023	Manganese, Total	N/A		Water	0.01 ppm	50 mL	0.005 mg/L J	1	0.004	0.010			2/23/24 15:43:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833321 **Method/Testcode:** 6010C/Mo T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2401363-023	Molybdenum, Total	N/A		Water	0.01 ppm	50 mL	0.006 mg/L J	1	0.003	0.025			2/23/24 15:43:00	N	IV
2401363-023	Nickel, Total	N/A		Water	0.00 ppm	50 mL	0.040 mg/L U	1	0.003	0.040			2/23/24 15:43:00	N	IV
2401363-023	Potassium, Total	N/A		Water	2.72 ppm	50 mL	2.7 mg/L	1	0.4	2.0			2/23/24 15:43:00	N	IV
2401363-023	Selenium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.007	0.010			2/23/24 15:43:00	N	IV
2401363-023	Silver, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.0006	0.010			2/23/24 15:43:00	N	IV
2401363-023	Sodium, Total	N/A		Water	19.54 ppm	50 mL	19.5 mg/L	1	0.3	1.0			2/23/24 15:43:00	N	IV
2401363-023	Tin, Total	N/A		Water	0.00 ppm	50 mL	0.50 mg/L U	1	0.008	0.50			2/23/24 15:43:00	N	IV
2401363-023	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.0007	0.050			2/23/24 15:43:00	N	IV
2401363-023	Zinc, Total	N/A		Water	0.01 ppm	50 mL	0.015 mg/L J	1	0.003	0.020			2/23/24 15:43:00	N	IV
2401372-001	Aluminum, Total	N/A		Water	0.03 ppm	50 mL	30 µg/L J	1	30	100			2/23/24 15:46:00	N	IV
2401372-001	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	11	60			2/23/24 15:46:00	N	IV
2401372-001	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/23/24 15:46:00	N	IV
2401372-001	Barium, Total	N/A		Water	0.62 ppm	50 mL	617 µg/L	1	3	20			2/23/24 15:46:00	N	IV
2401372-001	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.2	3.0			2/23/24 15:46:00	N	IV
2401372-001	Boron, Total	N/A		Water	0.03 ppm	50 mL	30 µg/L J	1	20	200			2/23/24 15:46:00	N	IV
2401372-001	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.4	5.0			2/23/24 15:46:00	N	IV
2401372-001	Chromium, Total	N/A		Water	0.01 ppm	50 mL	9 µg/L J	1	2	10			2/23/24 15:46:00	N	IV
2401372-001	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	2 µg/L J	1	0.9	50			2/23/24 15:46:00	N	IV
2401372-001	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	4	20			2/23/24 15:46:00	N	IV
2401372-001	Iron, Total	N/A		Water	0.12 ppm	50 mL	120 µg/L	1	70	100			2/23/24 15:46:00	N	IV
2401372-001	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			2/23/24 15:46:00	N	IV
2401372-001	Magnesium, Total	N/A		Water	19.12 ppm	50 mL	19100 µg/L	1	30	1000			2/23/24 15:46:00	N	IV
2401372-001	Manganese, Total	N/A		Water	0.02 ppm	50 mL	16 µg/L	1	4	10			2/23/24 15:46:00	N	IV
2401372-001	Nickel, Total	N/A		Water	0.01 ppm	50 mL	11 µg/L J	1	3	40			2/23/24 15:46:00	N	IV
2401372-001	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	7	10			2/23/24 15:46:00	N	IV
2401372-001	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	0.6	10			2/23/24 15:46:00	N	IV
2401372-001	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	8	10			2/23/24 15:46:00	N	IV
2401372-001	Tin, Total	N/A		Water	0.00 ppm	50 mL	500 µg/L U	1	8	500			2/23/24 15:46:00	N	IV
2401372-001	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	0.7	50			2/23/24 15:46:00	N	IV
2401372-001	Zinc, Total	N/A		Water	0.00 ppm	50 mL	3 µg/L J	1	3	20			2/23/24 15:46:00	N	IV
2401372-002	Aluminum, Total	N/A		Water	0.01 ppm	50 mL	100 µg/L U	1	30	100			2/23/24 15:50:00	N	IV
2401372-002	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	11	60			2/23/24 15:50:00	N	IV
2401372-002	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/23/24 15:50:00	N	IV
2401372-002	Barium, Total	N/A		Water	0.04 ppm	50 mL	39 µg/L	1	3	20			2/23/24 15:50:00	N	IV
2401372-002	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.2	3.0			2/23/24 15:50:00	N	IV
2401372-002	Boron, Total	N/A		Water	0.05 ppm	50 mL	50 µg/L J	1	20	200			2/23/24 15:50:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833321 **Method/Testcode:** 6010C/Cd T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2401372-002	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.4	5.0			2/23/24 15:50:00	N	IV
2401372-002	Calcium, Total	N/A		Water	239.45 ppm	50 mL	239000 µg/L	1	300	1000			2/23/24 15:50:00	N	IV
2401372-002	Chromium, Total	N/A		Water	0.00 ppm	50 mL	3 µg/L J	1	2	10			2/23/24 15:50:00	N	IV
2401372-002	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	0.9	50			2/23/24 15:50:00	N	IV
2401372-002	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	4	20			2/23/24 15:50:00	N	IV
2401372-002	Iron, Total	N/A		Water	0.02 ppm	50 mL	100 µg/L U	1	70	100			2/23/24 15:50:00	N	IV
2401372-002	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			2/23/24 15:50:00	N	IV
2401372-002	Magnesium, Total	N/A		Water	33.70 ppm	50 mL	33700 µg/L	1	30	1000			2/23/24 15:50:00	N	IV
2401372-002	Manganese, Total	N/A		Water	0.10 ppm	50 mL	103 µg/L	1	4	10			2/23/24 15:50:00	N	IV
2401372-002	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	3	40			2/23/24 15:50:00	N	IV
2401372-002	Potassium, Total	N/A		Water	6.97 ppm	50 mL	7000 µg/L	1	400	2000			2/23/24 15:50:00	N	IV
2401372-002	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	7	10			2/23/24 15:50:00	N	IV
2401372-002	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	0.6	10			2/23/24 15:50:00	N	IV
2401372-002	Sodium, Total	N/A		Water	147.87 ppm	50 mL	148000 µg/L	1	300	1000			2/23/24 15:50:00	N	IV
2401372-002	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	8	10			2/23/24 15:50:00	N	IV
2401372-002	Tin, Total	N/A		Water	0.00 ppm	50 mL	500 µg/L U	1	8	500			2/23/24 15:50:00	N	IV
2401372-002	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	0.7	50			2/23/24 15:50:00	N	IV
2401372-002	Zinc, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	3	20			2/23/24 15:50:00	N	IV
2401372-005	Aluminum, Total	N/A		Water	0.14 ppm	50 mL	140 µg/L	1	30	100			2/23/24 15:53:00	N	IV
2401372-005	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	11	60			2/23/24 15:53:00	N	IV
2401372-005	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/23/24 15:53:00	N	IV
2401372-005	Barium, Total	N/A		Water	0.49 ppm	50 mL	493 µg/L	1	3	20			2/23/24 15:53:00	N	IV
2401372-005	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.2	3.0			2/23/24 15:53:00	N	IV
2401372-005	Boron, Total	N/A		Water	0.09 ppm	50 mL	90 µg/L J	1	20	200			2/23/24 15:53:00	N	IV
2401372-005	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.4	5.0			2/23/24 15:53:00	N	IV
2401372-005	Chromium, Total	N/A		Water	0.01 ppm	50 mL	7 µg/L J	1	2	10			2/23/24 15:53:00	N	IV
2401372-005	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	1 µg/L J	1	0.9	50			2/23/24 15:53:00	N	IV
2401372-005	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	4	20			2/23/24 15:53:00	N	IV
2401372-005	Iron, Total	N/A		Water	0.22 ppm	50 mL	220 µg/L	1	70	100			2/23/24 15:53:00	N	IV
2401372-005	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			2/23/24 15:53:00	N	IV
2401372-005	Magnesium, Total	N/A		Water	2.71 ppm	50 mL	2700 µg/L	1	30	1000			2/23/24 15:53:00	N	IV
2401372-005	Manganese, Total	N/A		Water	0.01 ppm	50 mL	6 µg/L J	1	4	10			2/23/24 15:53:00	N	IV
2401372-005	Nickel, Total	N/A		Water	0.02 ppm	50 mL	15 µg/L J	1	3	40			2/23/24 15:53:00	N	IV
2401372-005	Potassium, Total	N/A		Water	29.27 ppm	50 mL	29300 µg/L	1	400	2000			2/23/24 15:53:00	N	IV
2401372-005	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	7	10			2/23/24 15:53:00	N	IV
2401372-005	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	0.6	10			2/23/24 15:53:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833321 **Method/Testcode:** 6010C/Tl T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2401372-005	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	8	10			2/23/24 15:53:00	N	IV
2401372-005	Tin, Total	N/A		Water	0.00 ppm	50 mL	500 µg/L U	1	8	500			2/23/24 15:53:00	N	IV
2401372-005	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	2 µg/L J	1	0.7	50			2/23/24 15:53:00	N	IV
2401372-005	Zinc, Total	N/A		Water	0.01 ppm	50 mL	12 µg/L J	1	3	20			2/23/24 15:53:00	N	IV
2401372-006	Aluminum, Total	N/A		Water	0.00 ppm	50 mL	100 µg/L U	1	30	100			2/23/24 15:56:00	N	IV
2401372-006	Antimony, Total	N/A		Water	0.01 ppm	50 mL	60 µg/L U	1	11	60			2/23/24 15:56:00	N	IV
2401372-006	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/23/24 15:56:00	N	IV
2401372-006	Barium, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	3	20			2/23/24 15:56:00	N	IV
2401372-006	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.2	3.0			2/23/24 15:56:00	N	IV
2401372-006	Boron, Total	N/A		Water	0.00 ppm	50 mL	200 µg/L U	1	20	200			2/23/24 15:56:00	N	IV
2401372-006	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.4	5.0			2/23/24 15:56:00	N	IV
2401372-006	Calcium, Total	N/A		Water	0.05 ppm	50 mL	1000 µg/L U	1	300	1000			2/23/24 15:56:00	N	IV
2401372-006	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			2/23/24 15:56:00	N	IV
2401372-006	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	0.9	50			2/23/24 15:56:00	N	IV
2401372-006	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	4	20			2/23/24 15:56:00	N	IV
2401372-006	Iron, Total	N/A		Water	0.00 ppm	50 mL	100 µg/L U	1	70	100			2/23/24 15:56:00	N	IV
2401372-006	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			2/23/24 15:56:00	N	IV
2401372-006	Magnesium, Total	N/A		Water	0.00 ppm	50 mL	1000 µg/L U	1	30	1000			2/23/24 15:56:00	N	IV
2401372-006	Manganese, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			2/23/24 15:56:00	N	IV
2401372-006	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	3	40			2/23/24 15:56:00	N	IV
2401372-006	Potassium, Total	N/A		Water	0.44 ppm	50 mL	400 µg/L J	1	400	2000			2/23/24 15:56:00	N	IV
2401372-006	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	7	10			2/23/24 15:56:00	N	IV
2401372-006	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	0.6	10			2/23/24 15:56:00	N	IV
2401372-006	Sodium, Total	N/A		Water	0.53 ppm	50 mL	500 µg/L J	1	300	1000			2/23/24 15:56:00	N	IV
2401372-006	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	8	10			2/23/24 15:56:00	N	IV
2401372-006	Tin, Total	N/A		Water	0.00 ppm	50 mL	500 µg/L U	1	8	500			2/23/24 15:56:00	N	IV
2401372-006	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	0.7	50			2/23/24 15:56:00	N	IV
2401372-006	Zinc, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	3	20			2/23/24 15:56:00	N	IV
2401372-007	Aluminum, Total	N/A		Water	0.01 ppm	50 mL	100 µg/L U	1	30	100			2/23/24 15:59:00	N	IV
2401372-007	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	11	60			2/23/24 15:59:00	N	IV
2401372-007	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/23/24 15:59:00	N	IV
2401372-007	Barium, Total	N/A		Water	0.14 ppm	50 mL	143 µg/L	1	3	20			2/23/24 15:59:00	N	IV
2401372-007	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.2	3.0			2/23/24 15:59:00	N	IV
2401372-007	Boron, Total	N/A		Water	0.05 ppm	50 mL	50 µg/L J	1	20	200			2/23/24 15:59:00	N	IV
2401372-007	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.4	5.0			2/23/24 15:59:00	N	IV
2401372-007	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			2/23/24 15:59:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833321 **Method/Testcode:** 6010C/Co T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2401372-007	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	1 µg/L J	1	0.9	50			2/23/24 15:59:00	N	IV
2401372-007	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	4	20			2/23/24 15:59:00	N	IV
2401372-007	Iron, Total	N/A		Water	0.31 ppm	50 mL	310 µg/L	1	70	100			2/23/24 15:59:00	N	IV
2401372-007	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			2/23/24 15:59:00	N	IV
2401372-007	Magnesium, Total	N/A		Water	44.92 ppm	50 mL	44900 µg/L	1	30	1000			2/23/24 15:59:00	N	IV
2401372-007	Manganese, Total	N/A		Water	0.40 ppm	50 mL	401 µg/L	1	4	10			2/23/24 15:59:00	N	IV
2401372-007	Nickel, Total	N/A		Water	0.01 ppm	50 mL	8 µg/L J	1	3	40			2/23/24 15:59:00	N	IV
2401372-007	Potassium, Total	N/A		Water	26.89 ppm	50 mL	26900 µg/L	1	400	2000			2/23/24 15:59:00	N	IV
2401372-007	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	7	10			2/23/24 15:59:00	N	IV
2401372-007	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	0.6	10			2/23/24 15:59:00	N	IV
2401372-007	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	8	10			2/23/24 15:59:00	N	IV
2401372-007	Tin, Total	N/A		Water	0.00 ppm	50 mL	500 µg/L U	1	8	500			2/23/24 15:59:00	N	IV
2401372-007	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	0.7	50			2/23/24 15:59:00	N	IV
2401372-007	Zinc, Total	N/A		Water	0.00 ppm	50 mL	3 µg/L J	1	3	20			2/23/24 15:59:00	N	IV
2401372-008	Aluminum, Total	N/A		Water	0.01 ppm	50 mL	100 µg/L U	1	30	100			2/23/24 16:02:00	N	IV
2401372-008	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	11	60			2/23/24 16:02:00	N	IV
2401372-008	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/23/24 16:02:00	N	IV
2401372-008	Barium, Total	N/A		Water	0.13 ppm	50 mL	129 µg/L	1	3	20			2/23/24 16:02:00	N	IV
2401372-008	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.2	3.0			2/23/24 16:02:00	N	IV
2401372-008	Boron, Total	N/A		Water	0.06 ppm	50 mL	60 µg/L J	1	20	200			2/23/24 16:02:00	N	IV
2401372-008	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.4	5.0			2/23/24 16:02:00	N	IV
2401372-008	Chromium, Total	N/A		Water	0.00 ppm	50 mL	3 µg/L J	1	2	10			2/23/24 16:02:00	N	IV
2401372-008	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	1 µg/L J	1	0.9	50			2/23/24 16:02:00	N	IV
2401372-008	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	4	20			2/23/24 16:02:00	N	IV
2401372-008	Iron, Total	N/A		Water	0.26 ppm	50 mL	260 µg/L	1	70	100			2/23/24 16:02:00	N	IV
2401372-008	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			2/23/24 16:02:00	N	IV
2401372-008	Magnesium, Total	N/A		Water	44.16 ppm	50 mL	44200 µg/L	1	30	1000			2/23/24 16:02:00	N	IV
2401372-008	Manganese, Total	N/A		Water	0.39 ppm	50 mL	390 µg/L	1	4	10			2/23/24 16:02:00	N	IV
2401372-008	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	3	40			2/23/24 16:02:00	N	IV
2401372-008	Potassium, Total	N/A		Water	25.10 ppm	50 mL	25100 µg/L	1	400	2000			2/23/24 16:02:00	N	IV
2401372-008	Selenium, Total	N/A		Water	-0.01 ppm	50 mL	10 µg/L U	1	7	10			2/23/24 16:02:00	N	IV
2401372-008	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	0.6	10			2/23/24 16:02:00	N	IV
2401372-008	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	8	10			2/23/24 16:02:00	N	IV
2401372-008	Tin, Total	N/A		Water	0.00 ppm	50 mL	500 µg/L U	1	8	500			2/23/24 16:02:00	N	IV
2401372-008	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	0.7	50			2/23/24 16:02:00	N	IV
2401372-008	Zinc, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	3	20			2/23/24 16:02:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833321 **Method/Testcode:** 6010C/Al T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2401414-001	Aluminum, Total	N/A		Water	0.45 ppm	50 mL	450 µg/L	1	30	100			2/23/24 16:06:00	N	IV
2401414-001	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	11	60			2/23/24 16:06:00	N	IV
2401414-001	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/23/24 16:06:00	N	IV
2401414-001	Barium, Total	N/A		Water	0.04 ppm	50 mL	39 µg/L	1	3	20			2/23/24 16:06:00	N	IV
2401414-001	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.2	3.0			2/23/24 16:06:00	N	IV
2401414-001	Boron, Total	N/A		Water	0.07 ppm	50 mL	70 µg/L J	1	20	200			2/23/24 16:06:00	N	IV
2401414-001	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.4	5.0			2/23/24 16:06:00	N	IV
2401414-001	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			2/23/24 16:06:00	N	IV
2401414-001	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	3 µg/L J	1	0.9	50			2/23/24 16:06:00	N	IV
2401414-001	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	4	20			2/23/24 16:06:00	N	IV
2401414-001	Iron, Total	N/A		Water	2.60 ppm	50 mL	2600 µg/L	1	70	100			2/23/24 16:06:00	N	IV
2401414-001	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			2/23/24 16:06:00	N	IV
2401414-001	Magnesium, Total	N/A		Water	65.06 ppm	50 mL	65100 µg/L	1	30	1000			2/23/24 16:06:00	N	IV
2401414-001	Manganese, Total	N/A		Water	0.49 ppm	50 mL	489 µg/L	1	4	10			2/23/24 16:06:00	N	IV
2401414-001	Nickel, Total	N/A		Water	0.00 ppm	50 mL	4 µg/L J	1	3	40			2/23/24 16:06:00	N	IV
2401414-001	Potassium, Total	N/A		Water	13.56 ppm	50 mL	13600 µg/L	1	400	2000			2/23/24 16:06:00	N	IV
2401414-001	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	7	10			2/23/24 16:06:00	N	IV
2401414-001	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	0.6	10			2/23/24 16:06:00	N	IV
2401414-001	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	8	10			2/23/24 16:06:00	N	IV
2401414-001	Tin, Total	N/A		Water	0.00 ppm	50 mL	500 µg/L U	1	8	500			2/23/24 16:06:00	N	IV
2401414-001	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	0.7	50			2/23/24 16:06:00	N	IV
2401414-001	Zinc, Total	N/A		Water	0.00 ppm	50 mL	4 µg/L J	1	3	20			2/23/24 16:06:00	N	IV
2401414-002	Aluminum, Total	N/A		Water	0.00 ppm	50 mL	100 µg/L U	1	30	100			2/23/24 16:09:00	N	IV
2401414-002	Antimony, Total	N/A		Water	0.01 ppm	50 mL	60 µg/L U	1	11	60			2/23/24 16:09:00	N	IV
2401414-002	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/23/24 16:09:00	N	IV
2401414-002	Barium, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	3	20			2/23/24 16:09:00	N	IV
2401414-002	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.2	3.0			2/23/24 16:09:00	N	IV
2401414-002	Boron, Total	N/A		Water	0.00 ppm	50 mL	200 µg/L U	1	20	200			2/23/24 16:09:00	N	IV
2401414-002	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.4	5.0			2/23/24 16:09:00	N	IV
2401414-002	Calcium, Total	N/A		Water	0.04 ppm	50 mL	1000 µg/L U	1	300	1000			2/23/24 16:09:00	N	IV
2401414-002	Chromium, Total	N/A		Water	0.00 ppm	50 mL	5 µg/L J	1	2	10			2/23/24 16:09:00	N	IV
2401414-002	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	0.9	50			2/23/24 16:09:00	N	IV
2401414-002	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	4	20			2/23/24 16:09:00	N	IV
2401414-002	Iron, Total	N/A		Water	0.04 ppm	50 mL	100 µg/L U	1	70	100			2/23/24 16:09:00	N	IV
2401414-002	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			2/23/24 16:09:00	N	IV
2401414-002	Magnesium, Total	N/A		Water	0.00 ppm	50 mL	1000 µg/L U	1	30	1000			2/23/24 16:09:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833321 **Method/Testcode:** 6010C/Mn T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2401414-002	Manganese, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			2/23/24 16:09:00	N	IV
2401414-002	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	3	40			2/23/24 16:09:00	N	IV
2401414-002	Potassium, Total	N/A		Water	0.39 ppm	50 mL	2000 µg/L U	1	400	2000			2/23/24 16:09:00	N	IV
2401414-002	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	7	10			2/23/24 16:09:00	N	IV
2401414-002	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	0.6	10			2/23/24 16:09:00	N	IV
2401414-002	Sodium, Total	N/A		Water	0.59 ppm	50 mL	600 µg/L J	1	300	1000			2/23/24 16:09:00	N	IV
2401414-002	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	8	10			2/23/24 16:09:00	N	IV
2401414-002	Tin, Total	N/A		Water	0.00 ppm	50 mL	500 µg/L U	1	8	500			2/23/24 16:09:00	N	IV
2401414-002	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	0.7	50			2/23/24 16:09:00	N	IV
2401414-002	Zinc, Total	N/A		Water	0.00 ppm	50 mL	4 µg/L J	1	3	20			2/23/24 16:09:00	N	IV
2401414-003	Aluminum, Total	N/A		Water	0.06 ppm	50 mL	60 µg/L J	1	30	100			2/23/24 16:12:00	N	IV
2401414-003	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	11	60			2/23/24 16:12:00	N	IV
2401414-003	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/23/24 16:12:00	N	IV
2401414-003	Barium, Total	N/A		Water	0.05 ppm	50 mL	46 µg/L	1	3	20			2/23/24 16:12:00	N	IV
2401414-003	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.2	3.0			2/23/24 16:12:00	N	IV
2401414-003	Boron, Total	N/A		Water	0.09 ppm	50 mL	90 µg/L J	1	20	200			2/23/24 16:12:00	N	IV
2401414-003	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.4	5.0			2/23/24 16:12:00	N	IV
2401414-003	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			2/23/24 16:12:00	N	IV
2401414-003	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	2 µg/L J	1	0.9	50			2/23/24 16:12:00	N	IV
2401414-003	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	4	20			2/23/24 16:12:00	N	IV
2401414-003	Iron, Total	N/A		Water	2.24 ppm	50 mL	2240 µg/L	1	70	100			2/23/24 16:12:00	N	IV
2401414-003	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			2/23/24 16:12:00	N	IV
2401414-003	Magnesium, Total	N/A		Water	72.55 ppm	50 mL	72600 µg/L	1	30	1000			2/23/24 16:12:00	N	IV
2401414-003	Manganese, Total	N/A		Water	0.59 ppm	50 mL	593 µg/L	1	4	10			2/23/24 16:12:00	N	IV
2401414-003	Nickel, Total	N/A		Water	0.00 ppm	50 mL	5 µg/L J	1	3	40			2/23/24 16:12:00	N	IV
2401414-003	Potassium, Total	N/A		Water	16.82 ppm	50 mL	16800 µg/L	1	400	2000			2/23/24 16:12:00	N	IV
2401414-003	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	7	10			2/23/24 16:12:00	N	IV
2401414-003	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	0.6	10			2/23/24 16:12:00	N	IV
2401414-003	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	8	10			2/23/24 16:12:00	N	IV
2401414-003	Tin, Total	N/A		Water	0.00 ppm	50 mL	500 µg/L U	1	8	500			2/23/24 16:12:00	N	IV
2401414-003	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	0.7	50			2/23/24 16:12:00	N	IV
2401414-003	Zinc, Total	N/A		Water	0.01 ppm	50 mL	8 µg/L J	1	3	20			2/23/24 16:12:00	N	IV
2401415-001	Sodium, Total	N/A		Water	79.41 ppm	50 mL	79400 µg/L	1	300	1000			2/23/24 16:22:00	N	IV
2401415-002	Sodium, Total	N/A		Water	79.92 ppm	50 mL	79900 µg/L	1	300	1000			2/23/24 16:25:00	N	IV
2401458-001	Aluminum, Total	N/A		Water	0.02 ppm	50 mL	100 µg/L U	1	30	100			2/23/24 16:28:00	N	II
2401458-001	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	4	20			2/23/24 16:28:00	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833321 **Method/Testcode:** 6010C/Pb T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2401458-001	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			2/23/24 16:28:00	N	II
2401458-001	Zinc, Total	N/A		Water	0.07 ppm	50 mL	71 µg/L	1	3	20			2/23/24 16:28:00	N	II
2401372-001	Calcium, Total	N/A		Water	223.96 ppm	50 mL	2240000 µg/L	10	3000	10000			2/23/24 16:32:00	N	IV
2401372-001	Potassium, Total	N/A		Water	6.87 ppm	50 mL	69000 µg/L	10	4000	20000			2/23/24 16:32:00	N	IV
2401372-001	Sodium, Total	N/A		Water	167.63 ppm	50 mL	1680000 µg/L	10	3000	10000			2/23/24 16:32:00	N	IV
2401372-005	Calcium, Total	N/A		Water	73.84 ppm	50 mL	738000 µg/L	10	3000	10000			2/23/24 16:38:00	N	IV
2401372-005	Sodium, Total	N/A		Water	45.49 ppm	50 mL	455000 µg/L	10	3000	10000			2/23/24 16:38:00	N	IV
2401372-007	Calcium, Total	N/A		Water	74.83 ppm	50 mL	748000 µg/L	10	3000	10000			2/23/24 16:45:00	N	IV
2401372-007	Sodium, Total	N/A		Water	41.78 ppm	50 mL	418000 µg/L	10	3000	10000			2/23/24 16:45:00	N	IV
2401372-008	Calcium, Total	N/A		Water	71.46 ppm	50 mL	715000 µg/L	10	3000	10000			2/23/24 16:48:00	N	IV
2401372-008	Sodium, Total	N/A		Water	40.10 ppm	50 mL	401000 µg/L	10	3000	10000			2/23/24 16:48:00	N	IV
2401414-001	Calcium, Total	N/A		Water	58.40 ppm	50 mL	584000 µg/L	10	3000	10000			2/23/24 16:51:00	N	IV
2401414-001	Sodium, Total	N/A		Water	38.66 ppm	50 mL	387000 µg/L	10	3000	10000			2/23/24 16:51:00	N	IV
2401414-003	Calcium, Total	N/A		Water	58.01 ppm	50 mL	580000 µg/L	10	3000	10000			2/23/24 17:04:00	N	IV
2401414-003	Sodium, Total	N/A		Water	38.77 ppm	50 mL	388000 µg/L	10	3000	10000			2/23/24 17:04:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833322 **Method/Testcode:** 6010C/Al T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2401939-01	Aluminum, Total	MB		Soil	0.00 ppm	0.5 g	20 mg/Kg U	1	12	20			2/23/24 17:36:00	N	IV
KQ2401939-01	Antimony, Total	MB		Soil	0.01 ppm	0.5 g	6.0 mg/Kg U	1	0.6	6.0			2/23/24 17:36:00	N	IV
KQ2401939-01	Arsenic, Total	MB		Soil	0.00 ppm	0.5 g	1.0 mg/Kg U	1	0.7	1.0			2/23/24 17:36:00	N	IV
KQ2401939-01	Barium, Total	MB		Soil	0.00 ppm	0.5 g	2.0 mg/Kg U	1	0.3	2.0			2/23/24 17:36:00	N	IV
KQ2401939-01	Beryllium, Total	MB		Soil	0.00 ppm	0.5 g	0.30 mg/Kg U	1	0.03	0.30			2/23/24 17:36:00	N	IV
KQ2401939-01	Boron, Total	MB		Soil	0.00 ppm	0.5 g	20 mg/Kg U	1	2	20			2/23/24 17:36:00	N	IV
KQ2401939-01	Cadmium, Total	MB		Soil	0.00 ppm	0.5 g	0.50 mg/Kg U	1	0.09	0.50			2/23/24 17:36:00	N	IV
KQ2401939-01	Calcium, Total	MB		Soil	0.01 ppm	0.5 g	100 mg/Kg U	1	40	100			2/23/24 17:36:00	N	IV
KQ2401939-01	Chromium, Total	MB		Soil	0.00 ppm	0.5 g	1.0 mg/Kg U	1	0.4	1.0			2/23/24 17:36:00	N	IV
KQ2401939-01	Cobalt, Total	MB		Soil	0.00 ppm	0.5 g	5.0 mg/Kg U	1	0.09	5.0			2/23/24 17:36:00	N	IV
KQ2401939-01	Copper, Total	MB		Soil	0.00 ppm	0.5 g	2.0 mg/Kg U	1	0.3	2.0			2/23/24 17:36:00	N	IV
KQ2401939-01	Iron, Total	MB		Soil	0.04 ppm	0.5 g	20 mg/Kg U	1	13	20			2/23/24 17:36:00	N	IV
KQ2401939-01	Lead, Total	MB		Soil	0.00 ppm	0.5 g	5.0 mg/Kg U	1	0.4	5.0			2/23/24 17:36:00	N	IV
KQ2401939-01	Magnesium, Total	MB		Soil	0.00 ppm	0.5 g	100 mg/Kg U	1	20	100			2/23/24 17:36:00	N	IV
KQ2401939-01	Manganese, Total	MB		Soil	0.00 ppm	0.5 g	2.0 mg/Kg U	1	0.5	2.0			2/23/24 17:36:00	N	IV
KQ2401939-01	Nickel, Total	MB		Soil	0.02 ppm	0.5 g	2.4 mg/Kg J	1	0.7	4.0			2/23/24 17:36:00	N	IV
KQ2401939-01	Potassium, Total	MB		Soil	0.04 ppm	0.5 g	200 mg/Kg U	1	50	200			2/23/24 17:36:00	N	IV
KQ2401939-01	Selenium, Total	MB		Soil	0.00 ppm	0.5 g	1.0 mg/Kg U	1	0.6	1.0			2/23/24 17:36:00	N	IV
KQ2401939-01	Silver, Total	MB		Soil	0.00 ppm	0.5 g	1.0 mg/Kg U	1	0.09	1.0			2/23/24 17:36:00	N	IV
KQ2401939-01	Sodium, Total	MB		Soil	0.08 ppm	0.5 g	100 mg/Kg U	1	20	100			2/23/24 17:36:00	N	IV
KQ2401939-01	Thallium, Total	MB		Soil	0.00 ppm	0.5 g	1.0 mg/Kg U	1	0.7	1.0			2/23/24 17:36:00	N	IV
KQ2401939-01	Vanadium, Total	MB		Soil	0.00 ppm	0.5 g	5.0 mg/Kg U	1	0.07	5.0			2/23/24 17:36:00	N	IV
KQ2401939-01	Zinc, Total	MB		Soil	0.00 ppm	0.5 g	2.0 mg/Kg U	1	1.4	2.0			2/23/24 17:36:00	N	IV
KQ2401939-02	Aluminum, Total	LCS		Soil	1.91 ppm	0.5 g	191 mg/Kg	1	12	20	96		2/23/24 17:39:00	N	IV
KQ2401939-02	Antimony, Total	LCS		Soil	0.48 ppm	0.5 g	48.4 mg/Kg	1	0.6	6.0	97		2/23/24 17:39:00	N	IV
KQ2401939-02	Arsenic, Total	LCS		Soil	0.04 ppm	0.5 g	4.00 mg/Kg	1	0.7	1.0	100		2/23/24 17:39:00	N	IV
KQ2401939-02	Barium, Total	LCS		Soil	2.06 ppm	0.5 g	206 mg/Kg	1	0.3	2.0	103		2/23/24 17:39:00	N	IV
KQ2401939-02	Beryllium, Total	LCS		Soil	0.05 ppm	0.5 g	4.76 mg/Kg	1	0.03	0.30	95		2/23/24 17:39:00	N	IV
KQ2401939-02	Boron, Total	LCS		Soil	0.94 ppm	0.5 g	94.3 mg/Kg	1	2	20	94		2/23/24 17:39:00	N	IV
KQ2401939-02	Cadmium, Total	LCS		Soil	0.05 ppm	0.5 g	5.11 mg/Kg	1	0.09	0.50	102		2/23/24 17:39:00	N	IV
KQ2401939-02	Calcium, Total	LCS		Soil	2.04 ppm	0.5 g	204 mg/Kg	1	40	100	102		2/23/24 17:39:00	N	IV
KQ2401939-02	Chromium, Total	LCS		Soil	0.21 ppm	0.5 g	20.6 mg/Kg	1	0.4	1.0	103		2/23/24 17:39:00	N	IV
KQ2401939-02	Cobalt, Total	LCS		Soil	0.52 ppm	0.5 g	51.6 mg/Kg	1	0.09	5.0	103		2/23/24 17:39:00	N	IV
KQ2401939-02	Copper, Total	LCS		Soil	0.25 ppm	0.5 g	25.5 mg/Kg	1	0.3	2.0	102		2/23/24 17:39:00	N	IV
KQ2401939-02	Iron, Total	LCS		Soil	1.01 ppm	0.5 g	101 mg/Kg	1	13	20	101		2/23/24 17:39:00	N	IV
KQ2401939-02	Lead, Total	LCS		Soil	0.51 ppm	0.5 g	50.6 mg/Kg	1	0.4	5.0	101		2/23/24 17:39:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833322 **Method/Testcode:** 6010C/Mg T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2401939-02	Magnesium, Total	LCS		Soil	1.96 ppm	0.5 g	196 mg/Kg	1	20	100	98		2/23/24 17:39:00	N	IV
KQ2401939-02	Manganese, Total	LCS		Soil	0.50 ppm	0.5 g	49.7 mg/Kg	1	0.5	2.0	99		2/23/24 17:39:00	N	IV
KQ2401939-02	Nickel, Total	LCS		Soil	0.53 ppm	0.5 g	52.8 mg/Kg	1	0.7	4.0	106		2/23/24 17:39:00	N	IV
KQ2401939-02	Potassium, Total	LCS		Soil	19.05 ppm	0.5 g	1900 mg/Kg	1	50	200	95		2/23/24 17:39:00	N	IV
KQ2401939-02	Selenium, Total	LCS		Soil	0.92 ppm	0.5 g	91.6 mg/Kg	1	0.6	1.0	91		2/23/24 17:39:00	N	IV
KQ2401939-02	Silver, Total	LCS		Soil	0.05 ppm	0.5 g	5.09 mg/Kg	1	0.09	1.0	102		2/23/24 17:39:00	N	IV
KQ2401939-02	Sodium, Total	LCS		Soil	19.81 ppm	0.5 g	1980 mg/Kg	1	20	100	99		2/23/24 17:39:00	N	IV
KQ2401939-02	Thallium, Total	LCS		Soil	1.99 ppm	0.5 g	199 mg/Kg	1	0.7	1.0	99		2/23/24 17:39:00	N	IV
KQ2401939-02	Vanadium, Total	LCS		Soil	0.50 ppm	0.5 g	50.1 mg/Kg	1	0.07	5.0	100		2/23/24 17:39:00	N	IV
KQ2401939-02	Zinc, Total	LCS		Soil	0.50 ppm	0.5 g	49.7 mg/Kg	1	1.4	2.0	99		2/23/24 17:39:00	N	IV
K2401379-001	Aluminum, Total	N/A		Soil	68.28 ppm	0.5500 g	6210 mg/Kg #	1	12	18			2/23/24 17:43:00	N	IV
K2401379-001	Antimony, Total	N/A		Soil	0.00 ppm	0.5500 g	5.5 mg/Kg # U	1	0.6	5.5			2/23/24 17:43:00	N	IV
K2401379-001	Arsenic, Total	N/A		Soil	0.05 ppm	0.5500 g	4.27 mg/Kg #	1	0.70	0.91			2/23/24 17:43:00	N	IV
K2401379-001	Barium, Total	N/A		Soil	0.43 ppm	0.5500 g	39.2 mg/Kg #	1	0.3	1.8			2/23/24 17:43:00	N	IV
K2401379-001	Beryllium, Total	N/A		Soil	0.01 ppm	0.5500 g	0.73 mg/Kg #	1	0.03	0.27			2/23/24 17:43:00	N	IV
K2401379-001	Cadmium, Total	N/A		Soil	0.00 ppm	0.5500 g	0.19 mg/Kg # J	1	0.09	0.45			2/23/24 17:43:00	N	IV
K2401379-001	Calcium, Total	N/A		Soil	162.48 ppm	0.5500 g	14800 mg/Kg #	1	32	91			2/23/24 17:43:00	N	IV
K2401379-001	Chromium, Total	N/A		Soil	0.10 ppm	0.5500 g	8.80 mg/Kg #	1	0.35	0.91			2/23/24 17:43:00	N	IV
K2401379-001	Cobalt, Total	N/A		Soil	0.04 ppm	0.5500 g	3.7 mg/Kg # J	1	0.09	4.5			2/23/24 17:43:00	N	IV
K2401379-001	Copper, Total	N/A		Soil	0.08 ppm	0.5500 g	7.7 mg/Kg #	1	0.3	1.8			2/23/24 17:43:00	N	IV
K2401379-001	Lead, Total	N/A		Soil	0.12 ppm	0.5500 g	10.9 mg/Kg #	1	0.4	4.5			2/23/24 17:43:00	N	IV
K2401379-001	Magnesium, Total	N/A		Soil	30.98 ppm	0.5500 g	2820 mg/Kg #	1	13	91			2/23/24 17:43:00	N	IV
K2401379-001	Manganese, Total	N/A		Soil	1.40 ppm	0.5500 g	127 mg/Kg #	1	0.5	1.8			2/23/24 17:43:00	N	IV
K2401379-001	Nickel, Total	N/A		Soil	0.09 ppm	0.5500 g	8.0 mg/Kg # B	1	0.7	3.6			2/23/24 17:43:00	N	IV
K2401379-001	Potassium, Total	N/A		Soil	12.68 ppm	0.5500 g	1150 mg/Kg #	1	50	180			2/23/24 17:43:00	N	IV
K2401379-001	Selenium, Total	N/A		Soil	0.00 ppm	0.5500 g	0.91 mg/Kg # U	1	0.54	0.91			2/23/24 17:43:00	N	IV
K2401379-001	Silver, Total	N/A		Soil	0.00 ppm	0.5500 g	0.91 mg/Kg # U	1	0.09	0.91			2/23/24 17:43:00	N	IV
K2401379-001	Sodium, Total	N/A		Soil	3.29 ppm	0.5500 g	299 mg/Kg #	1	19	91			2/23/24 17:43:00	N	IV
K2401379-001	Thallium, Total	N/A		Soil	0.00 ppm	0.5500 g	0.91 mg/Kg # U	1	0.65	0.91			2/23/24 17:43:00	N	IV
K2401379-001	Vanadium, Total	N/A		Soil	0.09 ppm	0.5500 g	8.1 mg/Kg #	1	0.07	4.5			2/23/24 17:43:00	N	IV
K2401379-001	Zinc, Total	N/A		Soil	0.33 ppm	0.5500 g	29.6 mg/Kg #	1	1.4	1.8			2/23/24 17:43:00	N	IV
K2401435-001	Cadmium, Total	N/A		Soil	0.02 ppm	0.5200 g	1.81 mg/Kg #	1	0.09	0.48			2/23/24 17:46:00	N	II
K2401435-001	Lead, Total	N/A		Soil	0.90 ppm	0.5200 g	86.6 mg/Kg #	1	0.4	4.8			2/23/24 17:46:00	N	II
K2401439-001	Aluminum, Total	N/A		Soil	115.04 ppm	0.5500 g	10500 mg/Kg #	1	12	18			2/23/24 17:49:00	N	IV
K2401439-001	Antimony, Total	N/A		Soil	0.00 ppm	0.5500 g	5.5 mg/Kg # U	1	0.6	5.5			2/23/24 17:49:00	N	IV
K2401439-001	Arsenic, Total	N/A		Soil	0.11 ppm	0.5500 g	10.4 mg/Kg #	1	0.70	0.91			2/23/24 17:49:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833322 **Method/Testcode:** 6010C/Ba T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2401439-001	Barium, Total	N/A		Soil	0.81 ppm	0.5500 g	74.0 mg/Kg #	1	0.3	1.8			2/23/24 17:49:00	N	IV
2401439-001	Beryllium, Total	N/A		Soil	0.01 ppm	0.5500 g	0.50 mg/Kg #	1	0.03	0.27			2/23/24 17:49:00	N	IV
2401439-001	Cadmium, Total	N/A		Soil	0.01 ppm	0.5500 g	0.46 mg/Kg #	1	0.09	0.45			2/23/24 17:49:00	N	IV
2401439-001	Chromium, Total	N/A		Soil	0.83 ppm	0.5500 g	75.4 mg/Kg #	1	0.35	0.91			2/23/24 17:49:00	N	IV
2401439-001	Cobalt, Total	N/A		Soil	0.11 ppm	0.5500 g	9.8 mg/Kg #	1	0.09	4.5			2/23/24 17:49:00	N	IV
2401439-001	Copper, Total	N/A		Soil	0.55 ppm	0.5500 g	50.2 mg/Kg #	1	0.3	1.8			2/23/24 17:49:00	N	IV
2401439-001	Lead, Total	N/A		Soil	2.12 ppm	0.5500 g	193 mg/Kg #	1	0.4	4.5			2/23/24 17:49:00	N	IV
2401439-001	Magnesium, Total	N/A		Soil	78.12 ppm	0.5500 g	7100 mg/Kg #	1	13	91			2/23/24 17:49:00	N	IV
2401439-001	Manganese, Total	N/A		Soil	2.65 ppm	0.5500 g	241 mg/Kg #	1	0.5	1.8			2/23/24 17:49:00	N	IV
2401439-001	Nickel, Total	N/A		Soil	0.77 ppm	0.5500 g	69.6 mg/Kg #	1	0.7	3.6			2/23/24 17:49:00	N	IV
2401439-001	Potassium, Total	N/A		Soil	14.24 ppm	0.5500 g	1290 mg/Kg #	1	50	180			2/23/24 17:49:00	N	IV
2401439-001	Selenium, Total	N/A		Soil	-0.02 ppm	0.5500 g	0.91 mg/Kg # U	1	0.54	0.91			2/23/24 17:49:00	N	IV
2401439-001	Silver, Total	N/A		Soil	0.00 ppm	0.5500 g	0.91 mg/Kg # U	1	0.09	0.91			2/23/24 17:49:00	N	IV
2401439-001	Sodium, Total	N/A		Soil	5.42 ppm	0.5500 g	493 mg/Kg #	1	19	91			2/23/24 17:49:00	N	IV
2401439-001	Thallium, Total	N/A		Soil	0.00 ppm	0.5500 g	0.91 mg/Kg # U	1	0.65	0.91			2/23/24 17:49:00	N	IV
2401439-001	Vanadium, Total	N/A		Soil	0.28 ppm	0.5500 g	25.1 mg/Kg #	1	0.07	4.5			2/23/24 17:49:00	N	IV
2401439-001	Zinc, Total	N/A		Soil	0.85 ppm	0.5500 g	77.3 mg/Kg #	1	1.4	1.8			2/23/24 17:49:00	N	IV
2401442-002	Aluminum, Total	N/A		Soil	96.24 ppm	0.5500 g	8750 mg/Kg #	1	12	18			2/23/24 17:52:00	N	IV
2401442-002	Antimony, Total	N/A		Soil	0.01 ppm	0.5500 g	0.7 mg/Kg # J	1	0.6	5.5			2/23/24 17:52:00	N	IV
2401442-002	Arsenic, Total	N/A		Soil	0.10 ppm	0.5500 g	9.35 mg/Kg #	1	0.70	0.91			2/23/24 17:52:00	N	IV
2401442-002	Barium, Total	N/A		Soil	2.03 ppm	0.5500 g	185 mg/Kg #	1	0.3	1.8			2/23/24 17:52:00	N	IV
2401442-002	Beryllium, Total	N/A		Soil	0.00 ppm	0.5500 g	0.37 mg/Kg #	1	0.03	0.27			2/23/24 17:52:00	N	IV
2401442-002	Boron, Total	N/A		Soil	0.25 ppm	0.5500 g	23 mg/Kg #	1	2	18			2/23/24 17:52:00	N	IV
2401442-002	Cadmium, Total	N/A		Soil	0.01 ppm	0.5500 g	0.69 mg/Kg #	1	0.09	0.45			2/23/24 17:52:00	N	IV
2401442-002	Calcium, Total	N/A		Soil	16.35 ppm	0.5500 g	1490 mg/Kg #	1	32	91			2/23/24 17:52:00	N	IV
2401442-002	Chromium, Total	N/A		Soil	0.28 ppm	0.5500 g	25.1 mg/Kg #	1	0.35	0.91			2/23/24 17:52:00	N	IV
2401442-002	Cobalt, Total	N/A		Soil	0.09 ppm	0.5500 g	8.0 mg/Kg #	1	0.09	4.5			2/23/24 17:52:00	N	IV
2401442-002	Copper, Total	N/A		Soil	0.20 ppm	0.5500 g	17.8 mg/Kg #	1	0.3	1.8			2/23/24 17:52:00	N	IV
2401442-002	Lead, Total	N/A		Soil	1.45 ppm	0.5500 g	132 mg/Kg #	1	0.4	4.5			2/23/24 17:52:00	N	IV
2401442-002	Magnesium, Total	N/A		Soil	26.89 ppm	0.5500 g	2440 mg/Kg #	1	13	91			2/23/24 17:52:00	N	IV
2401442-002	Manganese, Total	N/A		Soil	5.06 ppm	0.5500 g	460 mg/Kg #	1	0.5	1.8			2/23/24 17:52:00	N	IV
2401442-002	Nickel, Total	N/A		Soil	0.28 ppm	0.5500 g	25.4 mg/Kg #	1	0.7	3.6			2/23/24 17:52:00	N	IV
2401442-002	Potassium, Total	N/A		Soil	9.70 ppm	0.5500 g	880 mg/Kg #	1	50	180			2/23/24 17:52:00	N	IV
2401442-002	Selenium, Total	N/A		Soil	-0.01 ppm	0.5500 g	0.91 mg/Kg # U	1	0.54	0.91			2/23/24 17:52:00	N	IV
2401442-002	Silver, Total	N/A		Soil	0.00 ppm	0.5500 g	0.91 mg/Kg # U	1	0.09	0.91			2/23/24 17:52:00	N	IV
2401442-002	Sodium, Total	N/A		Soil	0.69 ppm	0.5500 g	62 mg/Kg # J	1	19	91			2/23/24 17:52:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833322 **Method/Testcode:** 6010C/Tl T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R2401442-002	Thallium, Total	N/A		Soil	0.00 ppm	0.5500 g	0.91 mg/Kg # U	1	0.65	0.91			2/23/24 17:52:00	N	IV
R2401442-002	Vanadium, Total	N/A		Soil	0.15 ppm	0.5500 g	13.4 mg/Kg #	1	0.07	4.5			2/23/24 17:52:00	N	IV
R2401442-002	Zinc, Total	N/A		Soil	0.85 ppm	0.5500 g	77.0 mg/Kg #	1	1.4	1.8			2/23/24 17:52:00	N	IV
R2401442-003	Aluminum, Total	N/A		Soil	313.01 ppm	0.5 g	31300 mg/Kg #	1	12	20			2/23/24 17:56:00	N	IV
R2401442-003	Antimony, Total	N/A		Soil	0.99 ppm	0.5 g	98.6 mg/Kg #	1	0.6	6.0			2/23/24 17:56:00	N	IV
R2401442-003	Arsenic, Total	N/A		Soil	0.35 ppm	0.5 g	35.4 mg/Kg #	1	0.7	1.0			2/23/24 17:56:00	N	IV
R2401442-003	Barium, Total	N/A		Soil	6.57 ppm	0.5 g	657 mg/Kg #	1	0.3	2.0			2/23/24 17:56:00	N	IV
R2401442-003	Beryllium, Total	N/A		Soil	0.00 ppm	0.5 g	0.12 mg/Kg # J	1	0.03	0.30			2/23/24 17:56:00	N	IV
R2401442-003	Boron, Total	N/A		Soil	2.06 ppm	0.5 g	206 mg/Kg #	1	2	20			2/23/24 17:56:00	N	IV
R2401442-003	Cadmium, Total	N/A		Soil	0.32 ppm	0.5 g	32.3 mg/Kg #	1	0.09	0.50			2/23/24 17:56:00	N	IV
R2401442-003	Calcium, Total	N/A		Soil	75.48 ppm	0.5 g	7550 mg/Kg #	1	40	100			2/23/24 17:56:00	N	IV
R2401442-003	Chromium, Total	N/A		Soil	0.26 ppm	0.5 g	26.1 mg/Kg #	1	0.4	1.0			2/23/24 17:56:00	N	IV
R2401442-003	Cobalt, Total	N/A		Soil	0.07 ppm	0.5 g	6.8 mg/Kg #	1	0.09	5.0			2/23/24 17:56:00	N	IV
R2401442-003	Copper, Total	N/A		Soil	6.64 ppm	0.5 g	664 mg/Kg #	1	0.3	2.0			2/23/24 17:56:00	N	IV
R2401442-003	Magnesium, Total	N/A		Soil	12.30 ppm	0.5 g	1230 mg/Kg #	1	20	100			2/23/24 17:56:00	N	IV
R2401442-003	Manganese, Total	N/A		Soil	5.23 ppm	0.5 g	523 mg/Kg #	1	0.5	2.0			2/23/24 17:56:00	N	IV
R2401442-003	Nickel, Total	N/A		Soil	1.41 ppm	0.5 g	141 mg/Kg #	1	0.7	4.0			2/23/24 17:56:00	N	IV
R2401442-003	Potassium, Total	N/A		Soil	6.03 ppm	0.5 g	600 mg/Kg #	1	50	200			2/23/24 17:56:00	N	IV
R2401442-003	Selenium, Total	N/A		Soil	0.05 ppm	0.5 g	4.7 mg/Kg #	1	0.6	1.0			2/23/24 17:56:00	N	IV
R2401442-003	Silver, Total	N/A		Soil	0.02 ppm	0.5 g	2.1 mg/Kg #	1	0.09	1.0			2/23/24 17:56:00	N	IV
R2401442-003	Sodium, Total	N/A		Soil	5.39 ppm	0.5 g	540 mg/Kg #	1	20	100			2/23/24 17:56:00	N	IV
R2401442-003	Thallium, Total	N/A		Soil	0.00 ppm	0.5 g	1.0 mg/Kg # U	1	0.7	1.0			2/23/24 17:56:00	N	IV
R2401442-003	Vanadium, Total	N/A		Soil	0.09 ppm	0.5 g	9.1 mg/Kg #	1	0.07	5.0			2/23/24 17:56:00	N	IV
R2Q2401939-03	Aluminum, Total	MS	R2401442-003	Soil	166.30 ppm	0.5500 g	15100 mg/Kg #	1	12	18	-8901*		2/23/24 17:59:00	N	IV
R2Q2401939-03	Antimony, Total	MS	R2401442-003	Soil	1.43 ppm	0.5500 g	130 mg/Kg #	1	0.6	5.5	69*		2/23/24 17:59:00	N	IV
R2Q2401939-03	Arsenic, Total	MS	R2401442-003	Soil	0.44 ppm	0.5500 g	39.6 mg/Kg #	1	0.70	0.91	114		2/23/24 17:59:00	N	IV
R2Q2401939-03	Barium, Total	MS	R2401442-003	Soil	9.59 ppm	0.5500 g	872 mg/Kg #	1	0.3	1.8	118		2/23/24 17:59:00	N	IV
R2Q2401939-03	Beryllium, Total	MS	R2401442-003	Soil	0.05 ppm	0.5500 g	4.49 mg/Kg #	1	0.03	0.27	96		2/23/24 17:59:00	N	IV
R2Q2401939-03	Boron, Total	MS	R2401442-003	Soil	3.03 ppm	0.5500 g	276 mg/Kg #	1	2	18	77		2/23/24 17:59:00	N	IV
R2Q2401939-03	Cadmium, Total	MS	R2401442-003	Soil	0.39 ppm	0.5500 g	35.3 mg/Kg #	1	0.09	0.45	67*		2/23/24 17:59:00	N	IV
R2Q2401939-03	Calcium, Total	MS	R2401442-003	Soil	80.35 ppm	0.5500 g	7300 mg/Kg #	1	32	91	-134*		2/23/24 17:59:00	N	IV
R2Q2401939-03	Chromium, Total	MS	R2401442-003	Soil	0.48 ppm	0.5500 g	43.8 mg/Kg #	1	0.35	0.91	97		2/23/24 17:59:00	N	IV
R2Q2401939-03	Cobalt, Total	MS	R2401442-003	Soil	0.61 ppm	0.5500 g	55.6 mg/Kg #	1	0.09	4.5	107		2/23/24 17:59:00	N	IV
R2Q2401939-03	Copper, Total	MS	R2401442-003	Soil	2.82 ppm	0.5500 g	257 mg/Kg #	1	0.3	1.8	-1793*		2/23/24 17:59:00	N	IV
R2Q2401939-03	Magnesium, Total	MS	R2401442-003	Soil	19.97 ppm	0.5500 g	1820 mg/Kg #	1	13	91	322*		2/23/24 17:59:00	N	IV
R2Q2401939-03	Manganese, Total	MS	R2401442-003	Soil	4.58 ppm	0.5500 g	416 mg/Kg #	1	0.5	1.8	-234*		2/23/24 17:59:00	N	IV

SPK too low

SPK too low

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833322 **Method/Testcode:** 6010C/Ni T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ2401939-03	Nickel, Total	MS	R2401442-003	Soil	1.16 ppm	0.5500 g	106 mg/Kg #	1	0.7	3.6	-79*		2/23/24 17:59:00	N	IV
RQ2401939-03	Potassium, Total	MS	R2401442-003	Soil	27.98 ppm	0.5500 g	2540 mg/Kg #	1	50	180	107		2/23/24 17:59:00	N	IV
RQ2401939-03	Selenium, Total	MS	R2401442-003	Soil	0.96 ppm	0.5500 g	87.5 mg/Kg #	1	0.54	0.91	90		2/23/24 17:59:00	N	IV
RQ2401939-03	Silver, Total	MS	R2401442-003	Soil	0.09 ppm	0.5500 g	8.04 mg/Kg #	1	0.09	0.91	131*		2/23/24 17:59:00	N	IV
RQ2401939-03	Sodium, Total	MS	R2401442-003	Soil	28.13 ppm	0.5500 g	2560 mg/Kg #	1	19	91	111		2/23/24 17:59:00	N	IV
RQ2401939-03	Thallium, Total	MS	R2401442-003	Soil	1.89 ppm	0.5500 g	172 mg/Kg #	1	0.65	0.91	95		2/23/24 17:59:00	N	IV
RQ2401939-03	Vanadium, Total	MS	R2401442-003	Soil	0.61 ppm	0.5500 g	55.2 mg/Kg #	1	0.07	4.5	101		2/23/24 17:59:00	N	IV
RQ2401939-04	Aluminum, Total	DMS	R2401442-003	Soil	162.38 ppm	0.5500 g	14800 mg/Kg #	1	12	18	-9097*	2	2/23/24 18:02:00	N	IV
RQ2401939-04	Antimony, Total	DMS	R2401442-003	Soil	1.62 ppm	0.5500 g	148 mg/Kg #	1	0.6	5.5	108	13	2/23/24 18:02:00	N	IV
RQ2401939-04	Arsenic, Total	DMS	R2401442-003	Soil	0.44 ppm	0.5500 g	39.6 mg/Kg #	1	0.70	0.91	115	<1	2/23/24 18:02:00	N	IV
RQ2401939-04	Barium, Total	DMS	R2401442-003	Soil	9.76 ppm	0.5500 g	888 mg/Kg #	1	0.3	1.8	127*	2	2/23/24 18:02:00	N	IV
RQ2401939-04	Beryllium, Total	DMS	R2401442-003	Soil	0.05 ppm	0.5500 g	4.45 mg/Kg #	1	0.03	0.27	95	<1	2/23/24 18:02:00	N	IV
RQ2401939-04	Boron, Total	DMS	R2401442-003	Soil	3.38 ppm	0.5500 g	307 mg/Kg #	1	2	18	111	11	2/23/24 18:02:00	N	IV
RQ2401939-04	Cadmium, Total	DMS	R2401442-003	Soil	0.34 ppm	0.5500 g	30.9 mg/Kg #	1	0.09	0.45	-31*	13	2/23/24 18:02:00	N	IV
RQ2401939-04	Calcium, Total	DMS	R2401442-003	Soil	131.84 ppm	0.5500 g	12000 mg/Kg #	1	32	91	2440*	49*	2/23/24 18:02:00	N	IV
RQ2401939-04	Chromium, Total	DMS	R2401442-003	Soil	0.49 ppm	0.5500 g	44.8 mg/Kg #	1	0.35	0.91	103	2	2/23/24 18:02:00	N	IV
RQ2401939-04	Cobalt, Total	DMS	R2401442-003	Soil	0.59 ppm	0.5500 g	53.6 mg/Kg #	1	0.09	4.5	103	4	2/23/24 18:02:00	N	IV
RQ2401939-04	Copper, Total	DMS	R2401442-003	Soil	2.92 ppm	0.5500 g	266 mg/Kg #	1	0.3	1.8	-1753*	3	2/23/24 18:02:00	N	IV
RQ2401939-04	Magnesium, Total	DMS	R2401442-003	Soil	20.09 ppm	0.5500 g	1830 mg/Kg #	1	13	91	328*	<1	2/23/24 18:02:00	N	IV
RQ2401939-04	Manganese, Total	DMS	R2401442-003	Soil	4.39 ppm	0.5500 g	399 mg/Kg #	1	0.5	1.8	-272*	4	2/23/24 18:02:00	N	IV
RQ2401939-04	Nickel, Total	DMS	R2401442-003	Soil	1.31 ppm	0.5500 g	119 mg/Kg #	1	0.7	3.6	-50*	12	2/23/24 18:02:00	N	IV
RQ2401939-04	Potassium, Total	DMS	R2401442-003	Soil	27.88 ppm	0.5500 g	2530 mg/Kg #	1	50	180	106	<1	2/23/24 18:02:00	N	IV
RQ2401939-04	Selenium, Total	DMS	R2401442-003	Soil	0.94 ppm	0.5500 g	85.4 mg/Kg #	1	0.54	0.91	88	2	2/23/24 18:02:00	N	IV
RQ2401939-04	Silver, Total	DMS	R2401442-003	Soil	0.07 ppm	0.5500 g	6.72 mg/Kg #	1	0.09	0.91	102	18	2/23/24 18:02:00	N	IV
RQ2401939-04	Sodium, Total	DMS	R2401442-003	Soil	26.98 ppm	0.5500 g	2450 mg/Kg #	1	19	91	105	4	2/23/24 18:02:00	N	IV
RQ2401939-04	Thallium, Total	DMS	R2401442-003	Soil	1.86 ppm	0.5500 g	169 mg/Kg #	1	0.65	0.91	93	2	2/23/24 18:02:00	N	IV
RQ2401939-04	Vanadium, Total	DMS	R2401442-003	Soil	0.61 ppm	0.5500 g	55.8 mg/Kg #	1	0.07	4.5	103	<1	2/23/24 18:02:00	N	IV
R2401379-001	Iron, Total	N/A		Soil	11.60 ppm	0.5500 g	10500 mg/Kg #	10	130	180			2/23/24 18:18:00	N	IV
R2401435-001	Zinc, Total	N/A		Soil	0.55 ppm	0.5200 g	528 mg/Kg #	10	14	19			2/23/24 18:21:00	N	II
R2401439-001	Calcium, Total	N/A		Soil	50.50 ppm	0.5500 g	45900 mg/Kg #	10	320	910			2/23/24 18:25:00	N	IV
R2401439-001	Iron, Total	N/A		Soil	31.27 ppm	0.5500 g	28400 mg/Kg #	10	130	180			2/23/24 18:25:00	N	IV
R2401442-002	Iron, Total	N/A		Soil	21.03 ppm	0.5500 g	19100 mg/Kg #	10	130	180			2/23/24 18:28:00	N	IV
R2401442-003	Iron, Total	N/A		Soil	18.75 ppm	0.5 g	18700 mg/Kg #	10	130	200			2/23/24 18:31:00	N	IV
R2401442-003	Lead, Total	N/A		Soil	4.64 ppm	0.5 g	4640 mg/Kg #	10	4	50			2/23/24 18:31:00	N	IV
R2401442-003	Zinc, Total	N/A		Soil	0.98 ppm	0.5 g	976 mg/Kg #	10	14	20			2/23/24 18:31:00	N	IV
RQ2401939-03	Iron, Total	MS	R2401442-003	Soil	27.25 ppm	0.5500 g	24800 mg/Kg #	10	130	180	6633*		2/23/24 18:34:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833322 **Method/Testcode:** 6010C/Pb T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2401939-03	Lead, Total	MS	R2401442-003	Soil	1.01 ppm	0.5500 g	921 mg/Kg #	10	4	45	-8180*	SPK too low	2/23/24 18:34:00	N	IV
KQ2401939-03	Zinc, Total	MS	R2401442-003	Soil	1.13 ppm	0.5500 g	1030 mg/Kg #	10	14	18	122		2/23/24 18:34:00	N	IV
KQ2401939-04	Iron, Total	DMS	R2401442-003	Soil	32.04 ppm	0.5500 g	29100 mg/Kg #	10	130	180	11419*	16	2/23/24 18:38:00	N	IV
KQ2401939-04	Lead, Total	DMS	R2401442-003	Soil	0.93 ppm	0.5500 g	844 mg/Kg #	10	4	45	-8350*	9	2/23/24 18:38:00	N	IV
KQ2401939-04	Zinc, Total	DMS	R2401442-003	Soil	0.94 ppm	0.5500 g	857 mg/Kg #	10	14	18	-260*	18	2/23/24 18:38:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833323 **Method/Testcode:** 6010C/As TCLP

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2401913-01	Arsenic	MB		Water	0.00 ppm	50 mL	0.50 mg/L U	1	0.25	0.50			2/23/24 19:10:00	N	II
KQ2401913-01	Barium	MB		Water	0.00 ppm	50 mL	1.0 mg/L U	1	0.5	1.0			2/23/24 19:10:00	N	II
KQ2401913-01	Cadmium	MB		Water	0.00 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			2/23/24 19:10:00	N	II
KQ2401913-01	Chromium	MB		Water	0.00 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			2/23/24 19:10:00	N	II
KQ2401913-01	Lead	MB		Water	0.00 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			2/23/24 19:10:00	N	II
KQ2401913-01	Selenium	MB		Water	0.00 ppm	50 mL	0.50 mg/L U	1	0.25	0.50			2/23/24 19:10:00	N	II
KQ2401913-01	Silver	MB		Water	0.00 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			2/23/24 19:10:00	N	II
KQ2401913-05	Arsenic	MB		Soil	0.00 ppm	50 mL	0.50 mg/L U	1	0.25	0.50			2/23/24 19:10:00	N	IV
KQ2401913-05	Barium	MB		Soil	0.00 ppm	50 mL	1.0 mg/L U	1	0.5	1.0			2/23/24 19:10:00	N	IV
KQ2401913-05	Cadmium	MB		Soil	0.00 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			2/23/24 19:10:00	N	IV
KQ2401913-05	Chromium	MB		Soil	0.00 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			2/23/24 19:10:00	N	IV
KQ2401913-05	Lead	MB		Soil	0.00 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			2/23/24 19:10:00	N	IV
KQ2401913-05	Selenium	MB		Soil	0.00 ppm	50 mL	0.50 mg/L U	1	0.25	0.50			2/23/24 19:10:00	N	IV
KQ2401913-05	Silver	MB		Soil	0.00 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			2/23/24 19:10:00	N	IV
KQ2401913-02	Arsenic	LCS		Water	0.98 ppm	50 mL	0.977 mg/L	1	0.25	0.50	98		2/23/24 19:13:00	N	II
KQ2401913-02	Barium	LCS		Water	2.10 ppm	50 mL	2.10 mg/L	1	0.5	1.0	105		2/23/24 19:13:00	N	II
KQ2401913-02	Cadmium	LCS		Water	0.53 ppm	50 mL	0.530 mg/L	1	0.05	0.10	106		2/23/24 19:13:00	N	II
KQ2401913-02	Chromium	LCS		Water	0.53 ppm	50 mL	0.528 mg/L	1	0.05	0.10	106		2/23/24 19:13:00	N	II
KQ2401913-02	Lead	LCS		Water	0.53 ppm	50 mL	0.533 mg/L	1	0.05	0.10	107		2/23/24 19:13:00	N	II
KQ2401913-02	Selenium	LCS		Water	0.98 ppm	50 mL	0.981 mg/L	1	0.25	0.50	98		2/23/24 19:13:00	N	II
KQ2401913-02	Silver	LCS		Water	0.27 ppm	50 mL	0.271 mg/L	1	0.05	0.10	108		2/23/24 19:13:00	N	II
KQ2401913-06	Arsenic	LCS		Soil	0.98 ppm	50 mL	0.977 mg/L	1	0.25	0.50	98		2/23/24 19:13:00	N	IV
KQ2401913-06	Barium	LCS		Soil	2.10 ppm	50 mL	2.10 mg/L	1	0.5	1.0	105		2/23/24 19:13:00	N	IV
KQ2401913-06	Cadmium	LCS		Soil	0.53 ppm	50 mL	0.530 mg/L	1	0.05	0.10	106		2/23/24 19:13:00	N	IV
KQ2401913-06	Chromium	LCS		Soil	0.53 ppm	50 mL	0.528 mg/L	1	0.05	0.10	106		2/23/24 19:13:00	N	IV
KQ2401913-06	Lead	LCS		Soil	0.53 ppm	50 mL	0.533 mg/L	1	0.05	0.10	107		2/23/24 19:13:00	N	IV
KQ2401913-06	Selenium	LCS		Soil	0.98 ppm	50 mL	0.981 mg/L	1	0.25	0.50	98		2/23/24 19:13:00	N	IV
KQ2401913-06	Silver	LCS		Soil	0.27 ppm	50 mL	0.271 mg/L	1	0.05	0.10	108		2/23/24 19:13:00	N	IV
KQ2401817-01	Arsenic	MB		Soil	0.01 ppm	50 mL	0.50 mg/L U	1	0.25	0.50			2/23/24 19:16:00	N	IV
KQ2401817-01	Barium	MB		Soil	0.00 ppm	50 mL	1.0 mg/L U	1	0.5	1.0			2/23/24 19:16:00	N	IV
KQ2401817-01	Cadmium	MB		Soil	0.00 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			2/23/24 19:16:00	N	IV
KQ2401817-01	Chromium	MB		Soil	0.00 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			2/23/24 19:16:00	N	IV
KQ2401817-01	Lead	MB		Soil	0.00 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			2/23/24 19:16:00	N	IV
KQ2401817-01	Selenium	MB		Soil	0.00 ppm	50 mL	0.50 mg/L U	1	0.25	0.50			2/23/24 19:16:00	N	IV
KQ2401817-01	Silver	MB		Soil	0.00 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			2/23/24 19:16:00	N	IV
KQ2401820-01	Arsenic	MB		Water	0.00 ppm	50 mL	0.50 mg/L U	1	0.25	0.50			2/23/24 19:20:00	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833323 **Method/Testcode:** 6010C/Ba TCLP

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2401820-01	Barium	MB		Water	0.00 ppm	50 mL	1.0 mg/L U	1	0.5	1.0			2/23/24 19:20:00	N	II
KQ2401820-01	Cadmium	MB		Water	0.00 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			2/23/24 19:20:00	N	II
KQ2401820-01	Chromium	MB		Water	0.00 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			2/23/24 19:20:00	N	II
KQ2401820-01	Lead	MB		Water	0.00 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			2/23/24 19:20:00	N	II
KQ2401820-01	Selenium	MB		Water	0.00 ppm	50 mL	0.50 mg/L U	1	0.25	0.50			2/23/24 19:20:00	N	II
KQ2401820-01	Silver	MB		Water	0.00 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			2/23/24 19:20:00	N	II
K2401202-001	Arsenic	N/A		Water	0.16 ppm	50 mL	0.50 mg/L U	1	0.25	0.50			2/23/24 19:23:00	N	II
K2401202-001	Barium	N/A		Water	0.04 ppm	50 mL	1.0 mg/L U	1	0.5	1.0			2/23/24 19:23:00	N	II
K2401202-001	Cadmium	N/A		Water	0.00 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			2/23/24 19:23:00	N	II
K2401202-001	Chromium	N/A		Water	0.05 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			2/23/24 19:23:00	N	II
K2401202-001	Lead	N/A		Water	0.05 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			2/23/24 19:23:00	N	II
K2401202-001	Selenium	N/A		Water	-0.28 ppm	50 mL	0.50 mg/L U	1	0.25	0.50			2/23/24 19:23:00	N	II
K2401202-001	Silver	N/A		Water	0.00 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			2/23/24 19:23:00	N	II
K2401202-002	Arsenic	N/A		Water	0.12 ppm	50 mL	0.50 mg/L U	1	0.25	0.50			2/23/24 19:26:00	N	II
K2401202-002	Barium	N/A		Water	0.01 ppm	50 mL	1.0 mg/L U	1	0.5	1.0			2/23/24 19:26:00	N	II
K2401202-002	Cadmium	N/A		Water	0.00 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			2/23/24 19:26:00	N	II
K2401202-002	Chromium	N/A		Water	0.04 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			2/23/24 19:26:00	N	II
K2401202-002	Lead	N/A		Water	0.03 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			2/23/24 19:26:00	N	II
K2401202-002	Selenium	N/A		Water	-0.23 ppm	50 mL	0.50 mg/L U	1	0.25	0.50			2/23/24 19:26:00	N	II
K2401202-002	Silver	N/A		Water	0.00 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			2/23/24 19:26:00	N	II
K2401278-001	Arsenic	N/A		Soil	0.01 ppm	50 mL	0.50 mg/L U	1	0.25	0.50			2/23/24 19:29:00	N	IV
K2401278-001	Barium	N/A		Soil	1.22 ppm	50 mL	1.2 mg/L	1	0.5	1.0			2/23/24 19:29:00	N	IV
K2401278-001	Cadmium	N/A		Soil	0.01 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			2/23/24 19:29:00	N	IV
K2401278-001	Chromium	N/A		Soil	0.00 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			2/23/24 19:29:00	N	IV
K2401278-001	Lead	N/A		Soil	0.19 ppm	50 mL	0.19 mg/L	1	0.05	0.10			2/23/24 19:29:00	N	IV
K2401278-001	Selenium	N/A		Soil	0.00 ppm	50 mL	0.50 mg/L U	1	0.25	0.50			2/23/24 19:29:00	N	IV
K2401278-001	Silver	N/A		Soil	0.00 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			2/23/24 19:29:00	N	IV
KQ2401913-03	Arsenic	MS	R2401278-001	Soil	1.15 ppm	50 mL	1.15 mg/L	1	0.25	0.50	115		2/23/24 19:32:00	N	IV
KQ2401913-03	Barium	MS	R2401278-001	Soil	3.46 ppm	50 mL	3.5 mg/L	1	0.5	1.0	112		2/23/24 19:32:00	N	IV
KQ2401913-03	Cadmium	MS	R2401278-001	Soil	0.55 ppm	50 mL	0.55 mg/L	1	0.05	0.10	110		2/23/24 19:32:00	N	IV
KQ2401913-03	Chromium	MS	R2401278-001	Soil	0.52 ppm	50 mL	0.52 mg/L	1	0.05	0.10	104		2/23/24 19:32:00	N	IV
KQ2401913-03	Lead	MS	R2401278-001	Soil	0.72 ppm	50 mL	0.72 mg/L	1	0.05	0.10	107		2/23/24 19:32:00	N	IV
KQ2401913-03	Selenium	MS	R2401278-001	Soil	1.15 ppm	50 mL	1.15 mg/L	1	0.25	0.50	115		2/23/24 19:32:00	N	IV
KQ2401913-03	Silver	MS	R2401278-001	Soil	0.29 ppm	50 mL	0.29 mg/L	1	0.05	0.10	116		2/23/24 19:32:00	N	IV
KQ2401913-04	Arsenic	DMS	R2401278-001	Soil	1.09 ppm	50 mL	1.09 mg/L	1	0.25	0.50	109	5	2/23/24 19:36:00	N	IV
KQ2401913-04	Barium	DMS	R2401278-001	Soil	3.28 ppm	50 mL	3.3 mg/L	1	0.5	1.0	103	5	2/23/24 19:36:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833323 **Method/Testcode:** 6010C/Cd TCLP

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ2401913-04	Cadmium	DMS	R2401278-001	Soil	0.53 ppm	50 mL	0.53 mg/L	1	0.05	0.10	105	5	2/23/24 19:36:00	N	IV
RQ2401913-04	Chromium	DMS	R2401278-001	Soil	0.50 ppm	50 mL	0.50 mg/L	1	0.05	0.10	99	5	2/23/24 19:36:00	N	IV
RQ2401913-04	Lead	DMS	R2401278-001	Soil	0.69 ppm	50 mL	0.69 mg/L	1	0.05	0.10	100	4	2/23/24 19:36:00	N	IV
RQ2401913-04	Selenium	DMS	R2401278-001	Soil	1.09 ppm	50 mL	1.09 mg/L	1	0.25	0.50	109	6	2/23/24 19:36:00	N	IV
RQ2401913-04	Silver	DMS	R2401278-001	Soil	0.27 ppm	50 mL	0.27 mg/L	1	0.05	0.10	110	5	2/23/24 19:36:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

SCAN DATA TO LIMS
RUN NUMBERS:

Tier IV: X Yes ___ No

833053-022124-1CR7

833054

833055

833056

833057

833058

METALS DEPARTMENT
DATA QUALITY CHECKLIST

Data File: 7FEB21 Run Date: 2/21/24 Instrument: ICP7

ICP- 200.7 / (6010C) CVAF- 1631E CVAA- 245.1 // SW846

Batch ID / Metals Reviewed: _____

Yes	No	NA			Yes	No	NA
☒	☐	☐	1.	**Holding Times met method requirements?** ICP - 6mths from sampling to analysis CVAA- 28 days from sampling to analysis 1631 – 28 days to preservation – 90 days from sampling to analysis	☑	☐	☐
☐	☒	☐	2.	**ICAL met method requirements?** Correlation Coefficient ≥ 0.998 ICP High Level CCV1/2= 90-110% 1631 – Cal RSD≤15% and low std 75-125% of TV Standard Concentrations correct for all analytes? Requant of MRL 50-150%. Requant of mid level 90-110% (ICP=Std4, CVAA=5ppb)	☐	☑	☐
☒	☐	☐	3.	**ICV acceptable?** ICP: 200.7= 95-105% ; 6010C= 90-110% 1631- ICV 79-121% Hg: EPA 200 Series= 95-105% ; SW846= 90-110%	☑	☐	☐
☒	☐	☐	4.	**CCVs acceptable? Analyzed per 10 samples?** ICP: 200.7 / 6010C = 90-110% 1631- CCV 77-123% Hg: EPA 200 Series= 90-110% ; SW846= 80-120%	☑	☐	☐
☐	☒	☐	5.	**CRDL acceptable?** ICP / HG: 70-130%; DOD and GE 80-120%	☐	☑	☐
☐	☒	☐	6.	**CCBs acceptable? Analyzed per 10 samples?** Concentrations < RL; <1/2LOQ for DOD; <1/2MRL for NC?	☐	☑	☐
☒	☐	☐	7.	**Method Blank results <RL?** <1/2LOQ for DOD? <1/2MRL for NC?	☑	☐	☐
☒	☐	☐	8.	**LCS recoveries within QC limits?** ICP: 200.7= 85-115% ; 6010C = 80-120%; DOD=QSM limits 1631: DQO Hg: EPA 200 Series= 85-115% ; SW846 = 80-120%; DOD=QSM limits LCSS (soil) 80-120% or Certificate of Analysis QC limits per manufacturer (MassCAM)	☑	☐	☐
☐	☒	☐	9.	**All sample concentrations within LR?**	☐	☑	☐
☐	☒	☐	10.	**MS recoveries within QC limits?** ICP: 200.7= 70-130% ; 6010C = 75-125%; DOD= 80-120% 1631- 1 per 10 samples. 71-125% Hg: EPA 200 Series= 70-130% ; 7470A= 75-125% ; 7471B= 80-120%; DOD=LCS limits	☐	☑	☐
☐	☒	☐	11.	**Duplicate RPD within QC limits?** 20% for RPD shall be used for samples > or = 5 times the RL. RL shall be used for samples < 5 times the RL. 1631 - MS/MSD RPD 24%	☐	☑	☐
☒	☐	☐	12.	**Dilution factors verified and calculated correctly?**	☑	☐	☐
☒	☐	☐	13.	**Bench Sheet complete, initials, date, and time:** • Are standards and reagents traceable? • Is unused space on the sheet crossed out?	☑	☐	☐
☒	☐	☐	14.	**Data Transfer into LIMs accurate and complete?**	☑	☐	☐
☒	☐	☐	15.	**Were all steps performed as described in the applicable SOPs?** Submit Permanent changes by SOP change form: Note Temporary changes below			

Primary Review: NM
Date: 2/22/24

Secondary Review: CK
Date: 2/22/24

COMMENTS: **Comments must be provided for any items noted above as "No"

HLCW2/3 TK → use HLCW1 FOR TR
CCBs TLL Sb → RL OK
CRDL 0156 1924 <80% I. Se → 70% I. OK
0159 2314 0035 ICSA 2427 1928 ↓ LLCd → RL OK
CRDL 0031 >120% I. Se → <130% I. OK

R2401333-003 MS ↓SbNi, MSD ↓Sb
R2401277-001 ↓SbBaPbZn, MSD ↓SbBaZn, RPD ↑PbMgZn
R2401277-001 Se ↑RSD

TLR: R2401218-002 KNa 20X
↓ -003 KNa 10X
R2401217-01 DMn 10X
R2401280-011 Mn 100X
↓ -017 Mn 20X
R2401252-003 CuZn 10X
↓ -004 CuZn 10X
R2401281-001 Zn 10X
R2401312-001 Fe 10X
R2401333-001 Fe 10X
↓ -002 Fe 10X
R2401333-003 Fe 10X
R2401334-001 Fe 10X
↓ -003 Fe Pb 10X
R2401277-001 Ca Fe 10X
R2401128-018 Fe 20X

Metals Cover Page

Analyst: MFM **Date:** 2/21/24 **Instrument:** ICP7

Data File: 7FEB21 **Reviewed By:** NM **Entered By:** NM

Starlims Run #	Analytes Used	Batch ID	Method	Failed Analytes	Repeats	
833053	AlAsCaCdCrCuFeKMgMn	434252	6010C		R2401218-002,003 KNa 10x	TZ
	NaNiPb				R2401217-01D Mn 10x	
833054	TALtBMoSnSr	434253	6010C			CW5 only TZ
833055	AsFeMn	434254	6010C		R2401280-011 Mn 100x	CW6
					R2401280-017 Mn 20x	
833056	TALtBMoSnSr	434255 ~~435~~ MM 2/21/24	6010C			CW6
833057	TALtBMo	434308	6010C Soil		R2401334-001 Fe 10x	
					R2401252-003,004 Cu,Zn 10x	CW5
					R2401281-001 Zn 10x	
					R2401312-001 Fe 10x	
					R2401333 ③ Fe 10x	
					R2401333-003 Fe 10x	
					R2401334-003 Fe,Pb 10x	
833058	TALtB	434309	6010C Soil		R2401277-001 Cu,Fe 10x	CW5

ICP-7 Run Log

Serial number: MY2309CQ22

Analyst: MFM Date: 2/21/24 Data File: 7FEB21

	Prep Date	Lot #		Prep Date	Lot #
MRL	2/8/24	M844011 9A	Cal Std 1	10/2/23	M844000 88
ICSA	2/12/24	M844013 2F	Cal Std 2	10/2/23	M844002 3B
ICSAB	2/12/24	M844014 0G	Cal Std 5/ HLCCV1	1/31/24	M844003 9B
Int. Std	2/13/24	M844014 9C	HLCCV2	1/31/24	M844007 6B
ICV/CCV	2/21/24	M844005 8G	HLCCV3	12/6/23	M844009 6C

filters: 233250 (Cal Std 4 is a 1/5 and Cal Std 3 is a 1/100 dilution of Cal Std 5)

Blank Prep - Daily	NHO3	HCl	Pipet Used	DOD Pipet - Verification	IEC Date
Lot	231748	232049	M36, M37	—	—

1:1	PBW1 - 3 HOUR	1:29	R2401217-004A	1:60	R2401216-006	2:31	R2401280-024
1:2	PBW2 - 3 HOUR	1:30	R2401217-004L 5X	2:1	R2401216-007	S1:8	Continuing Calibration Verification1
1:3	PBW3 - 3 HOUR	1:31	R2401217-005	2:2	R2401216-008	S1:9	Continuing Calibration Blank1
1:4	PBW4 - 4 HOUR	1:32	R2401217-006	2:3	R2401241-005	S1:3	Contract Required Detection Limit
1:5	PBW1 - 4 HOUR	1:33	R2401217-007	2:4	R2401325-001	S1:4	Interference Check Solution A
1:6	PBW2 - 4 HOUR	1:34	R2401217-008	2:5	R2401325-002	S1:5	Interference Check Solution AB
1:7	PBW3 - 4 HOUR	1:35	R2401217-009	S1:8	Continuing Calibration Verification1	S1:8	Continuing Calibration Verification1
1:8	PBW4 - 4 HOUR	1:36	R2401217-010	S1:9	Continuing Calibration Blank1	S1:9	Continuing Calibration Blank1
1:9	LCSW1 - 3 HOUR	S1:6	Continuing Calibration Verification	S1:3	Contract Required Detection Limit	2:32	PBW-434255
1:10	LCSW2 - 3 HOUR	S1:7	Continuing Calibration Blank	S1:4	Interference Check Solution A	2:33	LCSW-434255
S1:6	Continuing Calibration Verificatior	1:37	R2401217-011	S1:5	Interference Check Solution AB	2:34	R2401280-025
S1:7	Continuing Calibration Blank	1:38	R2401217-012	S1:8	Continuing Calibration Verification1	2:35	R2401303-001
1:11	LCSW3 - 3 HOUR	1:39	R2401217-013	S1:9	Continuing Calibration Blank1	2:36	R2401303-002
1:12	LCSW4 - 3 HOUR	1:40	R2401217-014	2:6	PBW-434254	2:37	R2401306-001
1:13	LCSW1 - 4 HOUR	1:41	R2401217-015	2:7	LCSW-434254	2:38	R2401306-002
1:14	LCSW2 - 4 HOUR	1:42	R2401217-016	2:8	R2401280-002	2:39	R2401306-007
1:15	LCSW3 - 4 HOUR	1:43	R2401217-017	2:9	R2401280-003	2:40	R2401306-008
1:16	LCSW4 - 4 HOUR	1:44	R2401218-001 20X	2:10	R2401280-004	2:41	R2401306-009
S1:6	Continuing Calibration Verification	1:45	R2401218-002 100X	2:11	R2401280-006	S1:8	Continuing Calibration Verification1
S1:7	Continuing Calibration Blank	1:46	R2401218-003 100X	2:12	R2401280-008	S1:9	Continuing Calibration Blank1
S1:3	Contract Required Detection Limit	S1:6	Continuing Calibration Verification	2:13	R2401280-009	2:42	R2401306-010
S1:4	Interference Check Solution A	S1:7	Continuing Calibration Blank	2:14	R2401280-010	2:43	R2401340-001
S1:5	Interference Check Solution AB	S1:3	Contract Required Detection Limit	2:15	R2401280-011	2:44	R2401340-001S
S1:21	HLCCV2	S1:4	Interference Check Solution A	S1:8	Continuing Calibration Verification1	2:45	R2401340-001SD
S1:22	HLCCV3	S1:5	Interference Check Solution AB	S1:9	Continuing Calibration Blank1	2:46	R2401340-001A
S1:18	HLCCV1	S1:6	Continuing Calibration Verification	2:16	R2401280-012	2:47	R2401340-001L 5X
S1:6	Continuing Calibration Verification	S1:7	Continuing Calibration Blank	2:17	R2401280-013	2:48	R2401340-002
S1:7	Continuing Calibration Blank	1:47	PBW-434253	2:18	R2401280-014	2:49	R2401340-003
1:17	PBW-434252	1:48	LCSW-434253	2:19	R2401280-015		
1:18	FBLK-434252	1:49	R2401215-001	2:20	R2401280-016		
1:19	LCSW-434252	1:50	R2401215-001S	2:21	R2401280-017		
1:20	R2401218-001	1:51	R2401215-001SD	2:22	R2401280-018		
1:21	R2401218-002	1:52	R2401215-001A	2:23	R2401280-018S		
1:22	R2401218-003	1:53	R2401215-001L 5X	2:24	R2401280-018SD		
1:23	R2401217-001	1:54	R2401215-002	2:25	R2401280-018A		
1:24	R2401217-002	1:55	R2401216-001	S1:8	Continuing Calibration Verification1		
1:25	R2401217-003	1:56	R2401216-002	S1:9	Continuing Calibration Blank1		
1:26	R2401217-004	S1:8	Continuing Calibration Verification1	2:26	R2401280-018L 5X		
S1:6	Continuing Calibration Verification	S1:9	Continuing Calibration Blank1	2:27	R2401280-019		
S1:7	Continuing Calibration Blank	1:57	R2401216-003	2:28	R2401280-020		
1:27	R2401217-004S	1:58	R2401216-004	2:29	R2401280-022		
1:28	R2401217-004SD	1:59	R2401216-005	2:30	R2401280-023		

MFM 2/21/24 pg 1/2

ICP-7 Run Log

Serial number: MY2309CQ22

Analyst: MFM Date: 2/21/24 Data File: 7FEB21

	Prep Date	Lot #		Prep Date	Lot #
MRL			~~Cal Std 1~~		
ICSA			~~Cal Std 2~~		
ICSAB			Cal Std 5/ HLCCV1		
Int. Std			HLCCV2		
ICV/CCV			HLCCV3		

(Cal Std 4 is a 1/5 and Cal Std 3 is a 1/100 dilution of Cal Std 5)

Blank Prep - Daily	NHO3	HCl	Pipet Used	DOD Pipet Verification	IEC Date
Lot					MFM 2/21/24

2:50	R2401340-004
2:51	R2401340-005
S1:8	Continuing Calibration Verification1
S1:9	Continuing Calibration Blank1
2:52	R2401303-001 10X
2:53	R2401303-002 10X
S1:8	Continuing Calibration Verification1
S1:9	Continuing Calibration Blank1
S1:3	Contract Required Detection Limit
S1:4	Interference Check Solution A
S1:5	Interference Check Solution AB
S1:8	Continuing Calibration Verification1
S1:9	Continuing Calibration Blank1
2:54	PBS-434308
2:55	LCSS-434308
2:56	R2401222-001
2:57	R2401252-003
2:58	R2401252-004
2:59	R2401281-001
2:60	R2401312-001
3:1	R2401333-001
3:2	R2401333-002
3:3	R2401333-003
S1:10	Continuing Calibration Verification2
S1:11	Continuing Calibration Blank2
3:4	R2401333-003S
3:5	R2401333-003SD
3:6	R2401333-003A
3:7	R2401333-003L 5X
3:8	R2401334-001
3:9	R2401334-003
S1:10	Continuing Calibration Verification2
S1:11	Continuing Calibration Blank2
S1:3	Contract Required Detection Limit
S1:4	Interference Check Solution A
S1:5	Interference Check Solution AB
S1:10	Continuing Calibration Verification2
S1:11	Continuing Calibration Blank2

3:10	PBS-434309 F
3:11	LCSS-434309 F
3:12	R2401277-001
3:13	R2401277-001S
3:14	R2401277-001SD
3:15	R2401277-001A
3:16	R2401277-001L 5X
3:17	R2401345-001 F
3:18	R2401345-002 F
3:19	R2401345-003 F
S1:10	Continuing Calibration Verification2
S1:11	Continuing Calibration Blank2
3:20	R2401345-004 F
3:21	R2401345-005 F
3:22	R2401345-006 F
3:23	R2401345-007
3:24	R2401345-008
3:25	R2401345-009

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3:26	R2401345-010
S1:10	Continuing Calibration Verification2
S1:11	Continuing Calibration Blank2
S1:3	Contract Required Detection Limit
S1:4	Interference Check Solution A
S1:5	Interference Check Solution AB
S1:10	Continuing Calibration Verification2
S1:11	Continuing Calibration Blank2

Created Date/Time	2/21/2024 12:27:14	Software Version	7.6.1.12212
Instrument Name	MY2309CQ22	Firmware Version	5590
File Path	C:\Agilent\ICP Expert\My Results\2024\7FEB21.esws		

Notes MFM 2/21/24

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
2/21/2024 13:45:01	Blank	Ag (328.068 nm)	0.0000	N/A	-274.7311
	Blank	Al (237.312 nm)	0.0000	N/A	86.1553
	Blank	As (188.980 nm)	0.0000	N/A	-13.9095
	Blank	B (249.772 nm)	0.0000	N/A	71.0834
	Blank	Ba (230.424 nm)	0.0000	N/A	-14.2387
	Blank	Be (313.107 nm)	0.0000	N/A	-230.3984
	Blank	Ca (317.933 nm)	0.0000	N/A	2646.2595
	Blank	Cd (214.439 nm)	0.0000	N/A	-16.9005
	Blank	Co (230.786 nm)	0.0000	N/A	49.4310
	Blank	Cr (267.716 nm)	0.0000	N/A	-71.2589
	Blank	Cu (327.395 nm)	0.0000	N/A	-34.4171
	Blank	Fe (234.350 nm)	0.0000	N/A	30.4579
	Blank	K (766.491 nm)	0.0000	N/A	-335.3865
	Blank	Mg (279.078 nm)	0.0000	N/A	-15.0958
	Blank	Mn (257.610 nm)	0.0000	N/A	-35.1055
	Blank	Mo (202.032 nm)	0.0000	N/A	-13.4906
	Blank	Na (588.995 nm)	0.0000	N/A	-16098.4920
	Blank	Ni (230.299 nm)	0.0000	N/A	77.1164
	Blank	Pb (220.353 nm)	0.0000	N/A	-15.8487
	Blank	Sb (217.582 nm)	0.0000	N/A	16.8552
	Blank	Se (196.026 nm)	0.0000	N/A	-6.6326
	Blank	Sn (189.925 nm)	0.0000	N/A	5.9394
	Blank	Sr (216.596 nm)	0.0000	N/A	-53.1539
	Blank	Ti (336.122 nm)	0.0000	N/A	-142.6933
	Blank	Tl (190.794 nm)	0.0000	N/A	-4.1720
	Blank	V (292.401 nm)	0.0000	N/A	-74.1586
	Blank	Y (360.074 nm)	1.00	0.00	492509.74
	Blank	Y_R (360.074 nm)	1.00	0.00	492522.91
	Blank	Zn (213.857 nm)	0.0000	N/A	-53.8541
2/21/2024 13:48:17	Standard 1	Ag (328.068 nm)		N/A	-282.1271
	Standard 1	Al (237.312 nm)		N/A	130.3714
	Standard 1	As (188.980 nm)	0.0050	N/A	-3.8622
	Standard 1	B (249.772 nm)		N/A	80.6764
	Standard 1	Ba (230.424 nm)	0.0200	N/A	1009.0715
	Standard 1	Be (313.107 nm)		N/A	-220.4289
	Standard 1	Ca (317.933 nm)		N/A	23563.5199
	Standard 1	Cd (214.439 nm)	0.0010	N/A	61.5248
	Standard 1	Co (230.786 nm)	0.0030	N/A	97.7574
	Standard 1	Cr (267.716 nm)	0.0050	N/A	160.7640
	Standard 1	Cu (327.395 nm)	0.0100	N/A	372.6224
	Standard 1	Fe (234.350 nm)		N/A	379.5204
	Standard 1	K (766.491 nm)		N/A	1724.3468
	Standard 1	Mg (279.078 nm)		N/A	1631.6592
	Standard 1	Mn (257.610 nm)	0.0100	N/A	3484.9851
	Standard 1	Mo (202.032 nm)	0.0250	N/A	191.5391
	Standard 1	Na (588.995 nm)		N/A	-9888.4139
	Standard 1	Ni (230.299 nm)		N/A	66.5958
	Standard 1	Pb (220.353 nm)	0.0050	N/A	19.6618
	Standard 1	Sb (217.582 nm)	0.0100	N/A	41.5581
	Standard 1	Se (196.026 nm)		N/A	-6.3722
	Standard 1	Sn (189.925 nm)		N/A	9.1006
	Standard 1	Sr (216.596 nm)		N/A	-49.7723

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Standard 1	Ti (336.122 nm)		N/A	-234.0914
	Standard 1	Tl (190.794 nm)	0.0100	N/A	5.4625
	Standard 1	V (292.401 nm)	0.0030	N/A	45.2329
	Standard 1	Y (360.074 nm)	0.99	0.44	489029.77
	Standard 1	Y_R (360.074 nm)	0.99	0.44	488960.79
	Standard 1	Zn (213.857 nm)	0.0100	N/A	508.3181
2/21/2024 13:51:32	Standard 2	Ag (328.068 nm)		N/A	-271.4986
	Standard 2	Al (237.312 nm)	0.1000	N/A	331.1257
	Standard 2	As (188.980 nm)	0.0100	N/A	4.8313
	Standard 2	B (249.772 nm)	0.2000	N/A	6626.2544
	Standard 2	Ba (230.424 nm)		N/A	-11.9087
	Standard 2	Be (313.107 nm)	0.0030	N/A	3050.7640
	Standard 2	Ca (317.933 nm)	1.0000	N/A	43561.4662
	Standard 2	Cd (214.439 nm)	0.0050	N/A	321.9564
	Standard 2	Co (230.786 nm)		N/A	44.4525
	Standard 2	Cr (267.716 nm)		N/A	-63.0412
	Standard 2	Cu (327.395 nm)	0.0200	N/A	771.0189
	Standard 2	Fe (234.350 nm)		N/A	93.8304
	Standard 2	K (766.491 nm)	2.0000	N/A	1758.7965
	Standard 2	Mg (279.078 nm)	1.0000	N/A	3272.0372
	Standard 2	Mn (257.610 nm)		N/A	-10.5797
	Standard 2	Mo (202.032 nm)		N/A	-11.8420
	Standard 2	Na (588.995 nm)	1.0000	N/A	-3518.7034
	Standard 2	Ni (230.299 nm)		N/A	69.9066
	Standard 2	Pb (220.353 nm)	0.0500	N/A	286.1508
	Standard 2	Sb (217.582 nm)	0.0600	N/A	158.7991
	Standard 2	Se (196.026 nm)	0.0100	N/A	-0.1372
	Standard 2	Sn (189.925 nm)	0.5000	N/A	1532.7731
	Standard 2	Sr (216.596 nm)		N/A	-50.2242
	Standard 2	Ti (336.122 nm)		N/A	-228.2020
	Standard 2	Tl (190.794 nm)		N/A	-9.5790
	Standard 2	V (292.401 nm)		N/A	-75.1260
	Standard 2	Y (360.074 nm)	0.99	0.78	488911.25
	Standard 2	Y_R (360.074 nm)	0.99	0.79	488956.77
	Standard 2	Zn (213.857 nm)		N/A	-80.2622
2/21/2024 13:54:47	Standard 3	Ag (328.068 nm)	0.0100	N/A	361.6082
	Standard 3	Al (237.312 nm)		N/A	618.1261
	Standard 3	As (188.980 nm)		N/A	21.9048
	Standard 3	B (249.772 nm)		N/A	1779.0313
	Standard 3	Ba (230.424 nm)		N/A	10262.8560
	Standard 3	Be (313.107 nm)	0.0050	N/A	5590.7477
	Standard 3	Ca (317.933 nm)	0.5000	N/A	24320.7553
	Standard 3	Cd (214.439 nm)		N/A	656.8628
	Standard 3	Co (230.786 nm)	0.0500	N/A	893.1448
	Standard 3	Cr (267.716 nm)	0.0100	N/A	427.1062
	Standard 3	Cu (327.395 nm)		N/A	928.1666
	Standard 3	Fe (234.350 nm)	0.1000	N/A	2441.5575
	Standard 3	K (766.491 nm)	0.5000	N/A	219.5478
	Standard 3	Mg (279.078 nm)	0.5000	N/A	1701.0818
	Standard 3	Mn (257.610 nm)		N/A	5308.9068
	Standard 3	Mo (202.032 nm)		N/A	374.7572
	Standard 3	Na (588.995 nm)	0.5000	N/A	-9308.8518
	Standard 3	Ni (230.299 nm)	0.0400	N/A	599.7505
	Standard 3	Pb (220.353 nm)		N/A	49.1841
	Standard 3	Sb (217.582 nm)		N/A	256.4669
	Standard 3	Se (196.026 nm)		N/A	3.7394
	Standard 3	Sn (189.925 nm)		N/A	318.0491

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Standard 3	Sr (216.596 nm)	0.0500	N/A	989.0084
	Standard 3	Ti (336.122 nm)	0.0500	N/A	6491.1586
	Standard 3	Tl (190.794 nm)	0.0200	N/A	21.3492
	Standard 3	V (292.401 nm)	0.0500	N/A	1948.0294
	Standard 3	Y (360.074 nm)	1.00	0.24	491193.65
	Standard 3	Y_R (360.074 nm)	1.00	0.24	491268.64
	Standard 3	Zn (213.857 nm)	0.0200	N/A	1186.8138
2/21/2024 13:58:02	Standard 4	Ag (328.068 nm)	0.2000	N/A	11726.4837
	Standard 4	Al (237.312 nm)	4.0000	N/A	10117.6557
	Standard 4	As (188.980 nm)	0.4000	N/A	694.7459
	Standard 4	B (249.772 nm)	1.0000	N/A	32527.4994
	Standard 4	Ba (230.424 nm)	4.0000	N/A	199496.1009
	Standard 4	Be (313.107 nm)	0.1000	N/A	112234.6577
	Standard 4	Ca (317.933 nm)	10.0000	N/A	408062.0736
	Standard 4	Cd (214.439 nm)	0.2000	N/A	12824.3806
	Standard 4	Co (230.786 nm)	1.0000	N/A	16368.0272
	Standard 4	Cr (267.716 nm)	0.2000	N/A	9088.3877
	Standard 4	Cu (327.395 nm)	0.5000	N/A	18933.4070
	Standard 4	Fe (234.350 nm)	2.0000	N/A	44950.4338
	Standard 4	K (766.491 nm)	10.0000	N/A	9812.0618
	Standard 4	Mg (279.078 nm)	10.0000	N/A	32546.0838
	Standard 4	Mn (257.610 nm)	0.3000	N/A	101699.6015
	Standard 4	Mo (202.032 nm)	1.0000	N/A	8090.7355
	Standard 4	Na (588.995 nm)	10.0000	N/A	109757.8809
	Standard 4	Ni (230.299 nm)	0.8000	N/A	9871.2209
	Standard 4	Pb (220.353 nm)	0.2000	N/A	1157.1447
	Standard 4	Sb (217.582 nm)	2.0000	N/A	4772.9665
	Standard 4	Se (196.026 nm)	0.2000	N/A	154.5118
	Standard 4	Sn (189.925 nm)	2.0000	N/A	6088.5044
	Standard 4	Sr (216.596 nm)	1.0000	N/A	20153.1786
	Standard 4	Ti (336.122 nm)	1.0000	N/A	132657.7839
	Standard 4	Tl (190.794 nm)	0.4000	N/A	510.1330
	Standard 4	V (292.401 nm)	1.0000	N/A	40569.2624
	Standard 4	Y (360.074 nm)	0.97	0.51	477615.34
	Standard 4	Y_R (360.074 nm)	0.97	0.51	477738.03
	Standard 4	Zn (213.857 nm)	0.4000	N/A	23006.8391
2/21/2024 14:01:17	Standard 5	Ag (328.068 nm)	1.0000	N/A	61040.7407
	Standard 5	Al (237.312 nm)	20.0000	N/A	51456.1674
	Standard 5	As (188.980 nm)	2.0000	N/A	3704.4214
	Standard 5	B (249.772 nm)	5.0000	N/A	169750.5709
	Standard 5	Ba (230.424 nm)	20.0000	N/A	978222.5213
	Standard 5	Be (313.107 nm)	0.5000	N/A	571925.5772
	Standard 5	Ca (317.933 nm)	50.0000	N/A	2014787.2440
	Standard 5	Cd (214.439 nm)	1.0000	N/A	63983.1576
	Standard 5	Co (230.786 nm)	5.0000	N/A	80972.3970
	Standard 5	Cr (267.716 nm)	1.0000	N/A	45814.6929
	Standard 5	Cu (327.395 nm)	2.5000	N/A	97058.0639
	Standard 5	Fe (234.350 nm)	10.0000	N/A	225166.9502
	Standard 5	K (766.491 nm)	50.0000	N/A	53409.8042
	Standard 5	Mg (279.078 nm)	50.0000	N/A	166322.3506
	Standard 5	Mn (257.610 nm)	1.5000	N/A	508182.1198
	Standard 5	Mo (202.032 nm)	5.0000	N/A	41460.5691
	Standard 5	Na (588.995 nm)	50.0000	N/A	626811.1187
	Standard 5	Ni (230.299 nm)	4.0000	N/A	48586.7861
	Standard 5	Pb (220.353 nm)	1.0000	N/A	5746.7822
	Standard 5	Sb (217.582 nm)	10.0000	N/A	24662.2428
	Standard 5	Se (196.026 nm)	1.0000	N/A	827.1151

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Standard 5	Sn (189.925 nm)	10.0000	N/A	30468.1717
	Standard 5	Sr (216.596 nm)	5.0000	N/A	100179.2249
	Standard 5	Ti (336.122 nm)	5.0000	N/A	672524.0063
	Standard 5	Tl (190.794 nm)	2.0000	N/A	2550.4241
	Standard 5	V (292.401 nm)	5.0000	N/A	207249.8516
	Standard 5	Y (360.074 nm)	0.93	0.34	457424.57
	Standard 5	Y_R (360.074 nm)	0.93	0.33	457601.03
	Standard 5	Zn (213.857 nm)	2.0000	N/A	117705.9839
2/21/2024 14:05:01	Initial Calibration Verification	Ag (328.068 nm)	0.5134	0.19	31179.1296
	Initial Calibration Verification	Al (237.312 nm)	9.9865	0.19	25713.2916
	Initial Calibration Verification	As (188.980 nm)	0.9943	0.34	1831.4048
	Initial Calibration Verification	B (249.772 nm)	2.4174	0.13	81964.9829
	Initial Calibration Verification	Ba (230.424 nm)	10.2732	0.19	502850.5108
	Initial Calibration Verification	Be (313.107 nm)	0.2418	0.09	276285.5703
	Initial Calibration Verification	Ca (317.933 nm)	25.6901	0.07	1036796.9802
	Initial Calibration Verification	Cd (214.439 nm)	0.5078	0.09	32485.4037
	Initial Calibration Verification	Co (230.786 nm)	2.5466	0.14	41279.1707
	Initial Calibration Verification	Cr (267.716 nm)	0.5157	0.10	23590.8134
	Initial Calibration Verification	Cu (327.395 nm)	1.2387	0.22	48030.7795
	Initial Calibration Verification	Fe (234.350 nm)	5.0225	0.06	113094.6382
	Initial Calibration Verification	K (766.491 nm)	24.2762	0.62	25702.1657
	Initial Calibration Verification	Mg (279.078 nm)	25.2354	0.05	83868.0563
	Initial Calibration Verification	Mn (257.610 nm)	0.7455	0.03	252549.3090
	Initial Calibration Verification	Mo (202.032 nm)	2.5371	0.25	21012.3237
	Initial Calibration Verification	Na (588.995 nm)	25.0980	0.41	306352.5750
	Initial Calibration Verification	Ni (230.299 nm)	2.0915	0.01	25451.3492
	Initial Calibration Verification	Pb (220.353 nm)	0.5093	0.07	2921.3014
	Initial Calibration Verification	Sb (217.582 nm)	4.9596	0.13	12223.5564
	Initial Calibration Verification	Se (196.026 nm)	0.4846	0.49	396.8902
	Initial Calibration Verification	Sn (189.925 nm)	5.0657	0.04	15436.1771
	Initial Calibration Verification	Sr (216.596 nm)	2.4945	0.17	49968.1421
	Initial Calibration Verification	Ti (336.122 nm)	2.5183	0.04	338479.8179
	Initial Calibration Verification	Tl (190.794 nm)	1.0326	0.41	1315.1404
	Initial Calibration Verification	V (292.401 nm)	2.5120	0.04	104004.8115
	Initial Calibration Verification	Y (360.074 nm)	0.95	0.31	469697.55
	Initial Calibration Verification	Y_R (360.074 nm)	0.95	0.31	469866.67
	Initial Calibration Verification	Zn (213.857 nm)	0.9891	0.27	58138.4431
2/21/2024 14:08:15	Initial Calibration Blank	Ag (328.068 nm)	-0.0002 u	56.94	-284.3155
	Initial Calibration Blank	Al (237.312 nm)	-0.0002 u	> 100.00	85.6822
	Initial Calibration Blank	As (188.980 nm)	0.0034	64.56	-7.5755
	Initial Calibration Blank	B (249.772 nm)	0.0021	4.91	142.1087
	Initial Calibration Blank	Ba (230.424 nm)	0.0001	99.05	-8.8051
	Initial Calibration Blank	Be (313.107 nm)	0.0000	> 100.00	-220.1327
	Initial Calibration Blank	Ca (317.933 nm)	0.0008	16.54	2676.6787
	Initial Calibration Blank	Cd (214.439 nm)	0.0000	81.11	-15.2124
	Initial Calibration Blank	Co (230.786 nm)	-0.0001 u	> 100.00	47.3452
	Initial Calibration Blank	Cr (267.716 nm)	0.0000 u	> 100.00	-72.6624
	Initial Calibration Blank	Cu (327.395 nm)	0.0001 u	> 100.00	-31.2084
	Initial Calibration Blank	Fe (234.350 nm)	0.0018	24.85	70.8596
	Initial Calibration Blank	K (766.491 nm)	0.0754	37.47	-254.5069
	Initial Calibration Blank	Mg (279.078 nm)	-0.0024 u	37.50	-23.0143
	Initial Calibration Blank	Mn (257.610 nm)	0.0000	64.03	-30.9645
	Initial Calibration Blank	Mo (202.032 nm)	0.0047	18.63	25.5212
	Initial Calibration Blank	Na (588.995 nm)	0.0277	10.70	-15742.4422
	Initial Calibration Blank	Ni (230.299 nm)	0.0003	50.21	81.1783
	Initial Calibration Blank	Pb (220.353 nm)	-0.0005 u	98.22	-18.7847
	Initial Calibration Blank	Sb (217.582 nm)	0.0090	33.69	38.9564

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Initial Calibration Blank	Se (196.026 nm)	0.0000 u	> 100.00	-6.6476
	Initial Calibration Blank	Sn (189.925 nm)	0.0024	6.64	13.1774
	Initial Calibration Blank	Sr (216.596 nm)	0.0003	32.73	-46.8219
	Initial Calibration Blank	Ti (336.122 nm)	0.0041	32.80	404.2438
	Initial Calibration Blank	Tl (190.794 nm)	-0.0015 u	77.76	-6.1118
	Initial Calibration Blank	V (292.401 nm)	0.0001 u	> 100.00	-71.1090
	Initial Calibration Blank	Y (360.074 nm)	1.00	0.23	490993.04
	Initial Calibration Blank	Y_R (360.074 nm)	1.00	0.24	491216.67
	Initial Calibration Blank	Zn (213.857 nm)	0.0001	> 100.00	-50.5266
2/21/2024 14:11:28	Contract Required Detection Limit	Ag (328.068 nm)	0.0097	1.09	322.0268
	Contract Required Detection Limit	Al (237.312 nm)	0.1979	1.00	593.9196
	Contract Required Detection Limit	As (188.980 nm)	0.0210	6.55	24.9724
	Contract Required Detection Limit	B (249.772 nm)	0.1908	0.18	6534.1752
	Contract Required Detection Limit	Ba (230.424 nm)	0.2061	0.05	10073.8042
	Contract Required Detection Limit	Be (313.107 nm)	0.0048	0.53	5306.1123
	Contract Required Detection Limit	Ca (317.933 nm)	1.0172	0.04	43591.8633
	Contract Required Detection Limit	Cd (214.439 nm)	0.0103	0.26	643.3219
	Contract Required Detection Limit	Co (230.786 nm)	0.0506	0.34	868.4865
	Contract Required Detection Limit	Cr (267.716 nm)	0.0102	0.62	396.5712
	Contract Required Detection Limit	Cu (327.395 nm)	0.0244	1.57	913.4949
	Contract Required Detection Limit	Fe (234.350 nm)	0.1090	0.13	2484.2119
	Contract Required Detection Limit	K (766.491 nm)	0.9367	4.00	669.3276
	Contract Required Detection Limit	Mg (279.078 nm)	0.9818	0.03	3248.4939
	Contract Required Detection Limit	Mn (257.610 nm)	0.0153	0.27	5154.3049
	Contract Required Detection Limit	Mo (202.032 nm)	0.0253	0.52	195.9708
	Contract Required Detection Limit	Na (588.995 nm)	0.9695	0.66	-3642.7668
	Contract Required Detection Limit	Ni (230.299 nm)	0.0400	0.73	561.9494
	Contract Required Detection Limit	Pb (220.353 nm)	0.0111	6.21	48.1536
	Contract Required Detection Limit	Sb (217.582 nm)	0.0604	2.93	165.5768
	Contract Required Detection Limit	Se (196.026 nm)	0.0093	36.74	1.0862
	Contract Required Detection Limit	Sn (189.925 nm)	0.5004	0.13	1530.1513
	Contract Required Detection Limit	Sr (216.596 nm)	0.1007	0.40	1965.3264
	Contract Required Detection Limit	Ti (336.122 nm)	0.0502	1.06	6606.5917
	Contract Required Detection Limit	Tl (190.794 nm)	0.0179	4.01	18.6494
	Contract Required Detection Limit	V (292.401 nm)	0.0490	0.51	1956.9994
	Contract Required Detection Limit	Y (360.074 nm)	0.99	0.40	487338.95
	Contract Required Detection Limit	Y_R (360.074 nm)	0.99	0.40	487518.63
	Contract Required Detection Limit	Zn (213.857 nm)	0.0199	0.59	1117.4728
2/21/2024 14:14:42	Interference Check Solution A	Ag (328.068 nm)	-0.0004 u	70.94	-299.0553
	Interference Check Solution A	Al (237.312 nm)	253.0954 o	0.13	649570.8915
	Interference Check Solution A	As (188.980 nm)	-0.0055 Ku +LOD	5.70	-24.0884 K
	Interference Check Solution A	B (249.772 nm)	0.1173	0.28	4046.5532
	Interference Check Solution A	Ba (230.424 nm)	0.0004	26.99	6.8157
	Interference Check Solution A	Be (313.107 nm)	0.0000 u	> 100.00	-245.4166
	Interference Check Solution A	Ca (317.933 nm)	240.8417 o	0.08	9697696.1553
	Interference Check Solution A	Cd (214.439 nm)	-0.0018 Ku +-0.07	6.90	-133.2856 K
	Interference Check Solution A	Co (230.786 nm)	0.0014	31.06	72.0273
	Interference Check Solution A	Cr (267.716 nm)	0.0009	24.92	-31.5267
	Interference Check Solution A	Cu (327.395 nm)	0.0009	19.44	-1.3582
	Interference Check Solution A	Fe (234.350 nm)	94.2852 o	0.05	2122555.3334
	Interference Check Solution A	K (766.491 nm)	0.0441	52.01	-288.1091
	Interference Check Solution A	Mg (279.078 nm)	263.0401 o	0.06	874337.7554
	Interference Check Solution A	Mn (257.610 nm)	0.0013	1.00	420.9098
	Interference Check Solution A	Mo (202.032 nm)	-0.0021 u	28.66	-31.0465
	Interference Check Solution A	Na (588.995 nm)	-0.0645 u	13.62	-16926.8443
	Interference Check Solution A	Ni (230.299 nm)	0.0019	6.72	100.7005
	Interference Check Solution A	Pb (220.353 nm)	-0.0031 u	11.72	-33.9948

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Interference Check Solution A	Sb (217.582 nm)	-0.0025 u	> 100.00	10.6786
	Interference Check Solution A	Se (196.026 nm)	0.0045	62.77	-2.8759
	Interference Check Solution A	Sn (189.925 nm)	0.0037	33.92	17.3187
	Interference Check Solution A	Sr (216.596 nm)	0.0101	3.66	148.8324
	Interference Check Solution A	Ti (336.122 nm)	0.0024	18.12	175.7748
	Interference Check Solution A	Tl (190.794 nm)	-0.0017 u	> 100.00	-6.3916
	Interference Check Solution A	V (292.401 nm)	0.0020	4.77	7.4953
	Interference Check Solution A	Y (360.074 nm)	0.88	0.55	431824.58
	Interference Check Solution A	Y_R (360.074 nm)	0.88	0.55	432115.97
	Interference Check Solution A	Zn (213.857 nm)	0.0119 K +/- 0.02	1.17	643.7743 K
2/21/2024 14:17:56	Interference Check Solution AB	Ag (328.068 nm)	0.2057	0.16	12326.1892
	Interference Check Solution AB	Al (237.312 nm)	255.6058 o	0.10	656012.9932
	Interference Check Solution AB	As (188.980 nm)	0.0896	0.39	152.3411
	Interference Check Solution AB	B (249.772 nm)	0.1325	0.19	4559.7071
	Interference Check Solution AB	Ba (230.424 nm)	0.5273	0.01	25797.6182
	Interference Check Solution AB	Be (313.107 nm)	0.4830	0.06	552117.8381
	Interference Check Solution AB	Ca (317.933 nm)	242.8873 o	0.07	9780041.3265
	Interference Check Solution AB	Cd (214.439 nm)	0.9816	0.14	62810.6456
	Interference Check Solution AB	Co (230.786 nm)	0.4887	0.09	7962.0165
	Interference Check Solution AB	Cr (267.716 nm)	0.5115	0.14	23399.8123
	Interference Check Solution AB	Cu (327.395 nm)	0.5294	0.15	20508.2969
	Interference Check Solution AB	Fe (234.350 nm)	95.2039 o	0.02	2143235.8858
	Interference Check Solution AB	K (766.491 nm)	0.0402 u	> 100.00	-292.2613
	Interference Check Solution AB	Mg (279.078 nm)	265.4636 o	0.07	882393.4635
	Interference Check Solution AB	Mn (257.610 nm)	0.4934	0.06	167154.2001
	Interference Check Solution AB	Mo (202.032 nm)	-0.0027 u	2.99	-35.6338
	Interference Check Solution AB	Na (588.995 nm)	-0.0520 u	5.21	-16766.7718
	Interference Check Solution AB	Ni (230.299 nm)	0.9971	0.22	12174.1822
	Interference Check Solution AB	Pb (220.353 nm)	0.0468	2.24	254.3406
	Interference Check Solution AB	Sb (217.582 nm)	0.6079	0.46	1513.1295
	Interference Check Solution AB	Se (196.026 nm)	0.0515	8.57	36.2255
	Interference Check Solution AB	Sn (189.925 nm)	0.0041	11.37	18.3474
	Interference Check Solution AB	Sr (216.596 nm)	0.0098	1.18	143.2715
	Interference Check Solution AB	Ti (336.122 nm)	0.0021	12.07	138.5488
	Interference Check Solution AB	Tl (190.794 nm)	0.1007	3.37	124.4205
	Interference Check Solution AB	V (292.401 nm)	0.5083	0.05	20984.5885
	Interference Check Solution AB	Y (360.074 nm)	0.88	0.35	432234.53
	Interference Check Solution AB	Y_R (360.074 nm)	0.88	0.35	432523.42
	Interference Check Solution AB	Zn (213.857 nm)	1.0228	0.08	60118.7463
2/21/2024 14:21:10	Continuing Calibration Verification	Ag (328.068 nm)	0.5138	0.11	31203.6273
	Continuing Calibration Verification	Al (237.312 nm)	10.0281	0.27	25820.0495
	Continuing Calibration Verification	As (188.980 nm)	0.9825	0.40	1809.4189
	Continuing Calibration Verification	B (249.772 nm)	2.4169	0.03	81949.6914
	Continuing Calibration Verification	Ba (230.424 nm)	10.2826	0.06	503309.8843
	Continuing Calibration Verification	Be (313.107 nm)	0.2425	0.05	277092.6062
	Continuing Calibration Verification	Ca (317.933 nm)	25.8273	0.05	1042320.2244
	Continuing Calibration Verification	Cd (214.439 nm)	0.5092	0.10	32579.0001
	Continuing Calibration Verification	Co (230.786 nm)	2.5487	0.03	41312.4751
	Continuing Calibration Verification	Cr (267.716 nm)	0.5165	0.11	23628.2949
	Continuing Calibration Verification	Cu (327.395 nm)	1.2389	0.16	48036.0126
	Continuing Calibration Verification	Fe (234.350 nm)	5.0579	0.00	113893.3156
	Continuing Calibration Verification	K (766.491 nm)	24.1270	0.18	25542.1702
	Continuing Calibration Verification	Mg (279.078 nm)	25.3374	0.09	84207.0039
	Continuing Calibration Verification	Mn (257.610 nm)	0.7467	0.05	252978.9493
	Continuing Calibration Verification	Mo (202.032 nm)	2.5374	0.32	21015.1733
	Continuing Calibration Verification	Na (588.995 nm)	25.0421	0.29	305634.1190
	Continuing Calibration Verification	Ni (230.299 nm)	2.0938	0.15	25478.6397

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	Pb (220.353 nm)	0.5109	0.24	2930.4883
	Continuing Calibration Verification	Sb (217.582 nm)	4.9541	0.19	12210.0191
	Continuing Calibration Verification	Se (196.026 nm)	0.4852	0.48	397.3759
	Continuing Calibration Verification	Sn (189.925 nm)	5.0698	0.12	15448.9209
	Continuing Calibration Verification	Sr (216.596 nm)	2.5046	0.08	50170.1194
	Continuing Calibration Verification	Ti (336.122 nm)	2.5152	0.06	338070.7340
	Continuing Calibration Verification	Tl (190.794 nm)	1.0326	0.12	1315.0351
	Continuing Calibration Verification	V (292.401 nm)	2.5183	0.06	104267.9336
	Continuing Calibration Verification	Y (360.074 nm)	0.96	0.35	470979.96
	Continuing Calibration Verification	Y_R (360.074 nm)	0.96	0.34	471100.18
	Continuing Calibration Verification	Zn (213.857 nm)	0.9900	0.23	58189.3061
2/21/2024 14:24:23	Continuing Calibration Blank	Ag (328.068 nm)	-0.0002 u	77.77	-288.6491
	Continuing Calibration Blank	Al (237.312 nm)	0.0009	50.02	88.4621
	Continuing Calibration Blank	As (188.980 nm)	0.0041	22.73	-6.3011
	Continuing Calibration Blank	B (249.772 nm)	0.0012	32.37	113.1336
	Continuing Calibration Blank	Ba (230.424 nm)	0.0001 u	> 100.00	-11.4656
	Continuing Calibration Blank	Be (313.107 nm)	0.0000 u	94.99	-223.8682
	Continuing Calibration Blank	Ca (317.933 nm)	-0.0003 u	88.70	2636.0631
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	-15.1620
	Continuing Calibration Blank	Co (230.786 nm)	-0.0001 u	66.85	47.2008
	Continuing Calibration Blank	Cr (267.716 nm)	-0.0001 u	> 100.00	-74.1646
	Continuing Calibration Blank	Cu (327.395 nm)	-0.0002 u	> 100.00	-41.3474
	Continuing Calibration Blank	Fe (234.350 nm)	0.0022	28.50	79.6784
	Continuing Calibration Blank	K (766.491 nm)	0.0771	25.51	-252.6956
	Continuing Calibration Blank	Mg (279.078 nm)	-0.0012 u	64.28	-18.9518
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000 u	> 100.00	-35.0335
	Continuing Calibration Blank	Mo (202.032 nm)	0.0041	8.27	20.6349
	Continuing Calibration Blank	Na (588.995 nm)	0.0159	47.40	-15894.7616
	Continuing Calibration Blank	Ni (230.299 nm)	0.0005	40.24	82.6763
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0004 u	80.44	-18.2438
	Continuing Calibration Blank	Sb (217.582 nm)	0.0081	22.06	36.8002
	Continuing Calibration Blank	Se (196.026 nm)	0.0010 u	> 100.00	-5.8073
	Continuing Calibration Blank	Sn (189.925 nm)	0.0013	59.15	9.9113
	Continuing Calibration Blank	Sr (216.596 nm)	0.0000 u	> 100.00	-53.0781
	Continuing Calibration Blank	Ti (336.122 nm)	0.0033	29.94	304.2381
	Continuing Calibration Blank	Tl (190.794 nm)	-0.0025 u	40.86	-7.3687
	Continuing Calibration Blank	V (292.401 nm)	0.0000 u	> 100.00	-74.4807
	Continuing Calibration Blank	Y (360.074 nm)	1.00	0.39	492920.04
	Continuing Calibration Blank	Y_R (360.074 nm)	1.00	0.39	492929.83
	Continuing Calibration Blank	Zn (213.857 nm)	-0.0002 u	19.40	-63.0433
2/21/2024 14:27:37	PBW1 - 3 HOUR	Ag (328.068 nm)	-0.0002 u	59.87	-289.4165
	PBW1 - 3 HOUR	Al (237.312 nm)	0.0008 u	> 100.00	88.2134
	PBW1 - 3 HOUR	As (188.980 nm)	0.0014	40.99	-11.3229
	PBW1 - 3 HOUR	B (249.772 nm)	0.0008	23.31	97.6864
	PBW1 - 3 HOUR	Ba (230.424 nm)	0.0000 u	> 100.00	-13.9089
	PBW1 - 3 HOUR	Be (313.107 nm)	0.0000	20.95	-221.7124
	PBW1 - 3 HOUR	Ca (317.933 nm)	0.0073	1.55	2938.1965
	PBW1 - 3 HOUR	Cd (214.439 nm)	0.0001	38.23	-10.2042
	PBW1 - 3 HOUR	Co (230.786 nm)	-0.0001 u	> 100.00	48.3632
	PBW1 - 3 HOUR	Cr (267.716 nm)	0.0000 u	> 100.00	-72.2926
	PBW1 - 3 HOUR	Cu (327.395 nm)	0.0002 u	> 100.00	-26.5877
	PBW1 - 3 HOUR	Fe (234.350 nm)	0.0071	2.76	189.9418
	PBW1 - 3 HOUR	K (766.491 nm)	0.0347	54.53	-298.1504
	PBW1 - 3 HOUR	Mg (279.078 nm)	-0.0001 u	> 100.00	-15.4463
	PBW1 - 3 HOUR	Mn (257.610 nm)	0.0001	16.21	-10.7090
	PBW1 - 3 HOUR	Mo (202.032 nm)	0.0008	31.95	-6.9551
	PBW1 - 3 HOUR	Na (588.995 nm)	0.0396	6.19	-15589.1305

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	PBW1 - 3 HOUR	Ni (230.299 nm)	-0.0006 u	41.59	70.3654
	PBW1 - 3 HOUR	Pb (220.353 nm)	0.0006	> 100.00	-12.5827
	PBW1 - 3 HOUR	Sb (217.582 nm)	0.0060	15.57	31.5358
	PBW1 - 3 HOUR	Se (196.026 nm)	-0.0004 u	> 100.00	-6.9863
	PBW1 - 3 HOUR	Sn (189.925 nm)	0.0010	35.84	9.0312
	PBW1 - 3 HOUR	Sr (216.596 nm)	0.0002	83.50	-48.5526
	PBW1 - 3 HOUR	Ti (336.122 nm)	0.0008	66.35	-29.3064
	PBW1 - 3 HOUR	Tl (190.794 nm)	-0.0023 u	26.42	-7.0930
	PBW1 - 3 HOUR	V (292.401 nm)	0.0001	32.67	-68.5103
	PBW1 - 3 HOUR	Y (360.074 nm)	1.01	0.33	497087.66
	PBW1 - 3 HOUR	Y_R (360.074 nm)	1.01	0.33	497185.78
	PBW1 - 3 HOUR	Zn (213.857 nm)	0.0001	37.92	-49.3895
2/21/2024 14:30:51	PBW2 - 3 HOUR	Ag (328.068 nm)	-0.0001 u	69.81	-281.4939
	PBW2 - 3 HOUR	Al (237.312 nm)	0.0013	48.18	89.3801
	PBW2 - 3 HOUR	As (188.980 nm)	0.0007	38.94	-12.6194
	PBW2 - 3 HOUR	B (249.772 nm)	0.0006	38.52	90.8605
	PBW2 - 3 HOUR	Ba (230.424 nm)	0.0001 u	> 100.00	-10.7379
	PBW2 - 3 HOUR	Be (313.107 nm)	0.0000	81.35	-210.2337
	PBW2 - 3 HOUR	Ca (317.933 nm)	0.0153	0.13	3263.6195
	PBW2 - 3 HOUR	Cd (214.439 nm)	0.0001	29.00	-10.6268
	PBW2 - 3 HOUR	Co (230.786 nm)	-0.0003 u	80.83	44.5121
	PBW2 - 3 HOUR	Cr (267.716 nm)	0.0000 u	> 100.00	-69.9397
	PBW2 - 3 HOUR	Cu (327.395 nm)	0.0001 u	> 100.00	-28.9974
	PBW2 - 3 HOUR	Fe (234.350 nm)	0.0021	12.14	77.0389
	PBW2 - 3 HOUR	K (766.491 nm)	0.0608	25.84	-270.1507
	PBW2 - 3 HOUR	Mg (279.078 nm)	0.0001 u	> 100.00	-14.7281
	PBW2 - 3 HOUR	Mn (257.610 nm)	0.0001	39.24	-13.7943
	PBW2 - 3 HOUR	Mo (202.032 nm)	0.0003	81.03	-10.7329
	PBW2 - 3 HOUR	Na (588.995 nm)	0.0404	20.15	-15579.0388
	PBW2 - 3 HOUR	Ni (230.299 nm)	-0.0008 u	9.53	67.2349
	PBW2 - 3 HOUR	Pb (220.353 nm)	0.0003 u	> 100.00	-13.9769
	PBW2 - 3 HOUR	Sb (217.582 nm)	0.0071	17.70	34.4080
	PBW2 - 3 HOUR	Se (196.026 nm)	-0.0004 u	> 100.00	-6.9931
	PBW2 - 3 HOUR	Sn (189.925 nm)	0.0000 u	> 100.00	5.8804
	PBW2 - 3 HOUR	Sr (216.596 nm)	0.0001 u	> 100.00	-51.7228
	PBW2 - 3 HOUR	Ti (336.122 nm)	0.0001 u	> 100.00	-122.8773
	PBW2 - 3 HOUR	Tl (190.794 nm)	-0.0034 u	27.20	-8.5705
	PBW2 - 3 HOUR	V (292.401 nm)	0.0001	> 100.00	-69.8861
	PBW2 - 3 HOUR	Y (360.074 nm)	1.01	0.46	497546.26
	PBW2 - 3 HOUR	Y_R (360.074 nm)	1.01	0.46	497655.85
	PBW2 - 3 HOUR	Zn (213.857 nm)	0.0001	14.68	-46.1425
2/21/2024 14:34:05	PBW3 - 3 HOUR	Ag (328.068 nm)	-0.0001 u	> 100.00	-283.4523
	PBW3 - 3 HOUR	Al (237.312 nm)	-0.0001 u	> 100.00	86.0056
	PBW3 - 3 HOUR	As (188.980 nm)	0.0013	95.13	-11.5527
	PBW3 - 3 HOUR	B (249.772 nm)	0.0001 u	> 100.00	75.2251
	PBW3 - 3 HOUR	Ba (230.424 nm)	0.0001	45.81	-9.1471
	PBW3 - 3 HOUR	Be (313.107 nm)	0.0000 u	> 100.00	-223.3065
	PBW3 - 3 HOUR	Ca (317.933 nm)	0.0068	2.51	2921.7775
	PBW3 - 3 HOUR	Cd (214.439 nm)	0.0001	63.66	-10.8964
	PBW3 - 3 HOUR	Co (230.786 nm)	-0.0001 u	31.28	47.9219
	PBW3 - 3 HOUR	Cr (267.716 nm)	0.0001 u	> 100.00	-66.3303
	PBW3 - 3 HOUR	Cu (327.395 nm)	0.0002	77.61	-26.2459
	PBW3 - 3 HOUR	Fe (234.350 nm)	0.0039	5.35	117.3618
	PBW3 - 3 HOUR	K (766.491 nm)	0.0019 u	> 100.00	-333.2970
	PBW3 - 3 HOUR	Mg (279.078 nm)	-0.0001 u	> 100.00	-15.3359
	PBW3 - 3 HOUR	Mn (257.610 nm)	0.0001	17.96	-2.2196
	PBW3 - 3 HOUR	Mo (202.032 nm)	-0.0001 u	> 100.00	-14.0316

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	PBW3 - 3 HOUR	Na (588.995 nm)	0.0353	13.88	-15645.4947
	PBW3 - 3 HOUR	Ni (230.299 nm)	-0.0007 u	20.41	68.1061
	PBW3 - 3 HOUR	Pb (220.353 nm)	0.0010	56.17	-9.9550
	PBW3 - 3 HOUR	Sb (217.582 nm)	0.0052	5.81	29.7172
	PBW3 - 3 HOUR	Se (196.026 nm)	0.0010 u	> 100.00	-5.7659
	PBW3 - 3 HOUR	Sn (189.925 nm)	0.0006 u	> 100.00	7.8490
	PBW3 - 3 HOUR	Sr (216.596 nm)	0.0000 u	> 100.00	-52.9136
	PBW3 - 3 HOUR	Ti (336.122 nm)	-0.0002 u	> 100.00	-162.8704
	PBW3 - 3 HOUR	Tl (190.794 nm)	-0.0034 u	11.94	-8.4798
	PBW3 - 3 HOUR	V (292.401 nm)	0.0003	54.80	-62.6546
	PBW3 - 3 HOUR	Y (360.074 nm)	1.01	0.52	498387.72
	PBW3 - 3 HOUR	Y_R (360.074 nm)	1.01	0.52	498482.06
	PBW3 - 3 HOUR	Zn (213.857 nm)	0.0003	16.66	-37.0914
2/21/2024 14:37:19	PBW4 - 4 HOUR	Ag (328.068 nm)	0.0000 u	> 100.00	-276.4421
	PBW4 - 4 HOUR	Al (237.312 nm)	0.0009 u	> 100.00	88.4200
	PBW4 - 4 HOUR	As (188.980 nm)	0.0000 u	> 100.00	-13.8453
	PBW4 - 4 HOUR	B (249.772 nm)	0.0000 u	> 100.00	71.8967
	PBW4 - 4 HOUR	Ba (230.424 nm)	0.0000 u	> 100.00	-13.3246
	PBW4 - 4 HOUR	Be (313.107 nm)	0.0000	76.41	-215.6477
	PBW4 - 4 HOUR	Ca (317.933 nm)	0.0082	0.59	2976.2226
	PBW4 - 4 HOUR	Cd (214.439 nm)	0.0001	73.56	-11.3685
	PBW4 - 4 HOUR	Co (230.786 nm)	-0.0002 u	12.58	46.1129
	PBW4 - 4 HOUR	Cr (267.716 nm)	0.0000 u	> 100.00	-71.4971
	PBW4 - 4 HOUR	Cu (327.395 nm)	0.0002 u	> 100.00	-27.4421
	PBW4 - 4 HOUR	Fe (234.350 nm)	0.0018	9.95	71.5240
	PBW4 - 4 HOUR	K (766.491 nm)	0.0265 u	> 100.00	-307.0141
	PBW4 - 4 HOUR	Mg (279.078 nm)	-0.0003 u	> 100.00	-16.2155
	PBW4 - 4 HOUR	Mn (257.610 nm)	0.0001	10.75	-1.9432
	PBW4 - 4 HOUR	Mo (202.032 nm)	0.0000 u	> 100.00	-13.1180
	PBW4 - 4 HOUR	Na (588.995 nm)	0.0386	1.57	-15602.0115
	PBW4 - 4 HOUR	Ni (230.299 nm)	-0.0006 u	82.95	70.0771
	PBW4 - 4 HOUR	Pb (220.353 nm)	0.0003	81.73	-14.3782
	PBW4 - 4 HOUR	Sb (217.582 nm)	0.0048	12.16	28.6480
	PBW4 - 4 HOUR	Se (196.026 nm)	-0.0009 u	> 100.00	-7.4218
	PBW4 - 4 HOUR	Sn (189.925 nm)	0.0010	78.99	8.9816
	PBW4 - 4 HOUR	Sr (216.596 nm)	0.0000 u	> 100.00	-52.3954
	PBW4 - 4 HOUR	Ti (336.122 nm)	-0.0002 u	> 100.00	-171.1353
	PBW4 - 4 HOUR	Tl (190.794 nm)	-0.0018 u	28.25	-6.4558
	PBW4 - 4 HOUR	V (292.401 nm)	0.0002	35.26	-66.6069
	PBW4 - 4 HOUR	Y (360.074 nm)	1.01	0.33	498458.44
	PBW4 - 4 HOUR	Y_R (360.074 nm)	1.01	0.33	498541.55
	PBW4 - 4 HOUR	Zn (213.857 nm)	0.0012	8.56	14.4365
2/21/2024 14:40:33	PBW1 - 4 HOUR	Ag (328.068 nm)	0.0000 u	> 100.00	-273.7390
	PBW1 - 4 HOUR	Al (237.312 nm)	0.0004 u	> 100.00	87.0649
	PBW1 - 4 HOUR	As (188.980 nm)	0.0009	62.14	-12.2783
	PBW1 - 4 HOUR	B (249.772 nm)	0.0000 u	> 100.00	72.6208
	PBW1 - 4 HOUR	Ba (230.424 nm)	0.0000 u	> 100.00	-14.4417
	PBW1 - 4 HOUR	Be (313.107 nm)	0.0000	27.50	-212.3704
	PBW1 - 4 HOUR	Ca (317.933 nm)	0.0120	1.51	3131.2980
	PBW1 - 4 HOUR	Cd (214.439 nm)	0.0000	92.79	-14.8985
	PBW1 - 4 HOUR	Co (230.786 nm)	-0.0006 u	49.26	40.0343
	PBW1 - 4 HOUR	Cr (267.716 nm)	0.0001 u	> 100.00	-66.2569
	PBW1 - 4 HOUR	Cu (327.395 nm)	0.0002 u	98.54	-26.7340
	PBW1 - 4 HOUR	Fe (234.350 nm)	0.0027	9.81	90.1291
	PBW1 - 4 HOUR	K (766.491 nm)	0.0357 u	> 100.00	-297.0969
	PBW1 - 4 HOUR	Mg (279.078 nm)	0.0008 u	88.34	-12.2783
	PBW1 - 4 HOUR	Mn (257.610 nm)	0.0000	46.42	-20.4289

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	PBW1 - 4 HOUR	Mo (202.032 nm)	-0.0001 u	> 100.00	-13.9263
	PBW1 - 4 HOUR	Na (588.995 nm)	0.0416	17.72	-15563.5494
	PBW1 - 4 HOUR	Ni (230.299 nm)	-0.0004 u	93.03	72.3456
	PBW1 - 4 HOUR	Pb (220.353 nm)	0.0002 u	> 100.00	-14.5333
	PBW1 - 4 HOUR	Sb (217.582 nm)	0.0041	59.58	26.8699
	PBW1 - 4 HOUR	Se (196.026 nm)	0.0001 u	> 100.00	-6.5756
	PBW1 - 4 HOUR	Sn (189.925 nm)	0.0007	47.62	8.1954
	PBW1 - 4 HOUR	Sr (216.596 nm)	0.0002	77.33	-49.2224
	PBW1 - 4 HOUR	Ti (336.122 nm)	-0.0003 u	45.52	-187.9294
	PBW1 - 4 HOUR	Tl (190.794 nm)	-0.0035 u	22.60	-8.5895
	PBW1 - 4 HOUR	V (292.401 nm)	-0.0001 u	> 100.00	-77.4333
	PBW1 - 4 HOUR	Y (360.074 nm)	1.01	0.60	498068.48
	PBW1 - 4 HOUR	Y_R (360.074 nm)	1.01	0.60	498109.00
	PBW1 - 4 HOUR	Zn (213.857 nm)	0.0000 u	> 100.00	-53.1228
2/21/2024 14:43:47	PBW2 - 4 HOUR	Ag (328.068 nm)	0.0000 u	> 100.00	-277.1379
	PBW2 - 4 HOUR	Al (237.312 nm)	0.0004 u	> 100.00	87.0975
	PBW2 - 4 HOUR	As (188.980 nm)	0.0008 u	> 100.00	-12.3656
	PBW2 - 4 HOUR	B (249.772 nm)	0.0000 u	> 100.00	72.4193
	PBW2 - 4 HOUR	Ba (230.424 nm)	0.0001	76.90	-11.3385
	PBW2 - 4 HOUR	Be (313.107 nm)	0.0000	38.66	-213.0260
	PBW2 - 4 HOUR	Ca (317.933 nm)	0.0082	2.98	2978.2582
	PBW2 - 4 HOUR	Cd (214.439 nm)	0.0000 u	> 100.00	-15.2922
	PBW2 - 4 HOUR	Co (230.786 nm)	-0.0004 u	> 100.00	43.1746
	PBW2 - 4 HOUR	Cr (267.716 nm)	0.0000 u	> 100.00	-69.0438
	PBW2 - 4 HOUR	Cu (327.395 nm)	0.0000 u	> 100.00	-34.2134
	PBW2 - 4 HOUR	Fe (234.350 nm)	0.0018	4.41	69.9135
	PBW2 - 4 HOUR	K (766.491 nm)	0.0277 u	> 100.00	-305.6328
	PBW2 - 4 HOUR	Mg (279.078 nm)	0.0003	7.86	-14.0412
	PBW2 - 4 HOUR	Mn (257.610 nm)	0.0001	21.84	-16.4481
	PBW2 - 4 HOUR	Mo (202.032 nm)	-0.0001 u	28.40	-14.4139
	PBW2 - 4 HOUR	Na (588.995 nm)	0.0399	23.89	-15586.0956
	PBW2 - 4 HOUR	Ni (230.299 nm)	-0.0004 u	> 100.00	72.8427
	PBW2 - 4 HOUR	Pb (220.353 nm)	0.0004 u	> 100.00	-13.6233
	PBW2 - 4 HOUR	Sb (217.582 nm)	0.0034	33.75	25.1611
	PBW2 - 4 HOUR	Se (196.026 nm)	0.0011 u	> 100.00	-5.7123
	PBW2 - 4 HOUR	Sn (189.925 nm)	0.0003	93.69	6.7343
	PBW2 - 4 HOUR	Sr (216.596 nm)	0.0000 u	> 100.00	-52.2884
	PBW2 - 4 HOUR	Ti (336.122 nm)	-0.0004 u	44.24	-196.6385
	PBW2 - 4 HOUR	Tl (190.794 nm)	-0.0016 u	97.44	-6.2390
	PBW2 - 4 HOUR	V (292.401 nm)	-0.0001 u	> 100.00	-76.3318
	PBW2 - 4 HOUR	Y (360.074 nm)	1.01	0.35	497130.15
	PBW2 - 4 HOUR	Y_R (360.074 nm)	1.01	0.35	497204.24
	PBW2 - 4 HOUR	Zn (213.857 nm)	0.0002	9.70	-39.7531
2/21/2024 14:47:01	PBW3 - 4 HOUR	Ag (328.068 nm)	0.0000 u	> 100.00	-277.7589
	PBW3 - 4 HOUR	Al (237.312 nm)	0.0018	45.20	90.8917
	PBW3 - 4 HOUR	As (188.980 nm)	0.0000 u	> 100.00	-13.8484
	PBW3 - 4 HOUR	B (249.772 nm)	-0.0002 u	> 100.00	65.2779
	PBW3 - 4 HOUR	Ba (230.424 nm)	0.0001	79.83	-9.8507
	PBW3 - 4 HOUR	Be (313.107 nm)	0.0000	1.93	-217.9588
	PBW3 - 4 HOUR	Ca (317.933 nm)	0.0165	0.54	3309.3547
	PBW3 - 4 HOUR	Cd (214.439 nm)	0.0000 u	> 100.00	-17.4967
	PBW3 - 4 HOUR	Co (230.786 nm)	-0.0004 u	64.31	42.7654
	PBW3 - 4 HOUR	Cr (267.716 nm)	0.0001 u	> 100.00	-65.8318
	PBW3 - 4 HOUR	Cu (327.395 nm)	0.0000 u	> 100.00	-33.3730
	PBW3 - 4 HOUR	Fe (234.350 nm)	0.0038	6.89	116.6337
	PBW3 - 4 HOUR	K (766.491 nm)	0.0316 u	> 100.00	-301.5017
	PBW3 - 4 HOUR	Mg (279.078 nm)	0.0018	77.41	-8.9828

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	PBW3 - 4 HOUR	Mn (257.610 nm)	0.0002	23.42	20.1712
	PBW3 - 4 HOUR	Mo (202.032 nm)	-0.0003 u	73.62	-15.9465
	PBW3 - 4 HOUR	Na (588.995 nm)	0.0385	29.02	-15604.0216
	PBW3 - 4 HOUR	Ni (230.299 nm)	-0.0006 u	87.79	70.0991
	PBW3 - 4 HOUR	Pb (220.353 nm)	0.0006 u	> 100.00	-12.6236
	PBW3 - 4 HOUR	Sb (217.582 nm)	0.0047	20.08	28.4283
	PBW3 - 4 HOUR	Se (196.026 nm)	0.0020	37.84	-4.9513
	PBW3 - 4 HOUR	Sn (189.925 nm)	0.0009	35.58	8.6223
	PBW3 - 4 HOUR	Sr (216.596 nm)	0.0003	87.33	-46.6611
	PBW3 - 4 HOUR	Ti (336.122 nm)	-0.0004 u	40.80	-195.1188
	PBW3 - 4 HOUR	Tl (190.794 nm)	-0.0034 u	39.17	-8.5441
	PBW3 - 4 HOUR	V (292.401 nm)	0.0000 u	> 100.00	-74.3404
	PBW3 - 4 HOUR	Y (360.074 nm)	1.01	0.57	497860.96
	PBW3 - 4 HOUR	Y_R (360.074 nm)	1.01	0.57	497915.27
	PBW3 - 4 HOUR	Zn (213.857 nm)	0.0020	1.35	60.8835
2/21/2024 14:50:15	PBW4 - 4 HOUR	Ag (328.068 nm)	0.0000 u	> 100.00	-275.6261
	PBW4 - 4 HOUR	Al (237.312 nm)	0.0007	86.20	87.9015
	PBW4 - 4 HOUR	As (188.980 nm)	0.0012 u	> 100.00	-11.7127
	PBW4 - 4 HOUR	B (249.772 nm)	-0.0002 u	94.76	65.6934
	PBW4 - 4 HOUR	Ba (230.424 nm)	0.0000 u	> 100.00	-13.7057
	PBW4 - 4 HOUR	Be (313.107 nm)	0.0000 u	> 100.00	-221.1402
	PBW4 - 4 HOUR	Ca (317.933 nm)	0.0092	3.06	3014.9934
	PBW4 - 4 HOUR	Cd (214.439 nm)	0.0001	86.79	-13.4646
	PBW4 - 4 HOUR	Co (230.786 nm)	-0.0003 u	67.79	44.2188
	PBW4 - 4 HOUR	Cr (267.716 nm)	-0.0001 u	> 100.00	-75.0029
	PBW4 - 4 HOUR	Cu (327.395 nm)	0.0000 u	> 100.00	-34.8128
	PBW4 - 4 HOUR	Fe (234.350 nm)	0.0019	11.89	73.3029
	PBW4 - 4 HOUR	K (766.491 nm)	0.0391	70.12	-293.4242
	PBW4 - 4 HOUR	Mg (279.078 nm)	0.0000 u	> 100.00	-15.0330
	PBW4 - 4 HOUR	Mn (257.610 nm)	0.0001	27.83	-16.5403
	PBW4 - 4 HOUR	Mo (202.032 nm)	-0.0003 u	> 100.00	-15.5952
	PBW4 - 4 HOUR	Na (588.995 nm)	0.0380	20.45	-15610.7772
	PBW4 - 4 HOUR	Ni (230.299 nm)	-0.0003 u	> 100.00	73.0021
	PBW4 - 4 HOUR	Pb (220.353 nm)	0.0001 u	> 100.00	-15.5172
	PBW4 - 4 HOUR	Sb (217.582 nm)	0.0032	36.59	24.7398
	PBW4 - 4 HOUR	Se (196.026 nm)	-0.0013 u	> 100.00	-7.7079
	PBW4 - 4 HOUR	Sn (189.925 nm)	0.0012	74.07	9.5091
	PBW4 - 4 HOUR	Sr (216.596 nm)	0.0002 u	> 100.00	-49.9794
	PBW4 - 4 HOUR	Ti (336.122 nm)	-0.0005 u	12.35	-212.8048
	PBW4 - 4 HOUR	Tl (190.794 nm)	-0.0040 u	61.54	-9.2520
	PBW4 - 4 HOUR	V (292.401 nm)	0.0001	58.58	-68.6705
	PBW4 - 4 HOUR	Y (360.074 nm)	1.01	0.35	498365.66
	PBW4 - 4 HOUR	Y_R (360.074 nm)	1.01	0.35	498418.64
	PBW4 - 4 HOUR	Zn (213.857 nm)	0.0003	12.25	-34.0830
2/21/2024 14:53:29	LCSW1 - 3 HOUR	Ag (328.068 nm)	0.0523	0.30	2928.4397
	LCSW1 - 3 HOUR	Al (237.312 nm)	1.9840	0.16	5177.4008
	LCSW1 - 3 HOUR	As (188.980 nm)	0.0386	1.19	57.6702
	LCSW1 - 3 HOUR	B (249.772 nm)	0.9990	0.05	33915.1563
	LCSW1 - 3 HOUR	Ba (230.424 nm)	2.0799	0.45	101793.5327
	LCSW1 - 3 HOUR	Be (313.107 nm)	0.0494	0.04	56288.0112
	LCSW1 - 3 HOUR	Ca (317.933 nm)	2.0638	0.03	85724.2153
	LCSW1 - 3 HOUR	Cd (214.439 nm)	0.0528	0.13	3362.7327
	LCSW1 - 3 HOUR	Co (230.786 nm)	0.5249	0.13	8547.1284
	LCSW1 - 3 HOUR	Cr (267.716 nm)	0.2053	0.10	9348.7953
	LCSW1 - 3 HOUR	Cu (327.395 nm)	0.2548	0.18	9853.1901
	LCSW1 - 3 HOUR	Fe (234.350 nm)	1.0163	0.05	22910.2152
	LCSW1 - 3 HOUR	K (766.491 nm)	19.0633	0.31	20110.9969

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	LCSW1 - 3 HOUR	Mg (279.078 nm)	2.0072	0.13	6656.8627
	LCSW1 - 3 HOUR	Mn (257.610 nm)	0.5024	0.01	170199.6684
	LCSW1 - 3 HOUR	Mo (202.032 nm)	0.4965	0.59	4101.1938
	LCSW1 - 3 HOUR	Na (588.995 nm)	19.8365	0.23	238753.9994
	LCSW1 - 3 HOUR	Ni (230.299 nm)	0.5379	0.09	6603.2165
	LCSW1 - 3 HOUR	Pb (220.353 nm)	0.5220	0.17	2994.5255
	LCSW1 - 3 HOUR	Sb (217.582 nm)	0.5007	1.17	1249.2550
	LCSW1 - 3 HOUR	Se (196.026 nm)	1.0510	0.79	868.4724
	LCSW1 - 3 HOUR	Sn (189.925 nm)	5.2780	0.07	16083.0881
	LCSW1 - 3 HOUR	Sr (216.596 nm)	2.1281	0.40	42620.9282
	LCSW1 - 3 HOUR	Ti (336.122 nm)	0.5049	0.11	67747.8186
	LCSW1 - 3 HOUR	Tl (190.794 nm)	2.0603	0.20	2628.1540
	LCSW1 - 3 HOUR	V (292.401 nm)	0.5007	0.07	20672.2564
	LCSW1 - 3 HOUR	Y (360.074 nm)	0.99	0.37	486217.75
	LCSW1 - 3 HOUR	Y_R (360.074 nm)	0.99	0.36	486274.17
	LCSW1 - 3 HOUR	Zn (213.857 nm)	0.5235	0.10	30742.7062
2/21/2024 14:56:43	LCSW2 - 3 HOUR	Ag (328.068 nm)	0.0526	0.21	2946.3527
	LCSW2 - 3 HOUR	Al (237.312 nm)	1.9869	0.09	5184.8272
	LCSW2 - 3 HOUR	As (188.980 nm)	0.0370	1.85	54.7384
	LCSW2 - 3 HOUR	B (249.772 nm)	1.0012	0.12	33990.0971
	LCSW2 - 3 HOUR	Ba (230.424 nm)	2.0839	0.29	101991.7866
	LCSW2 - 3 HOUR	Be (313.107 nm)	0.0495	0.03	56352.0973
	LCSW2 - 3 HOUR	Ca (317.933 nm)	2.0764	0.03	86231.3067
	LCSW2 - 3 HOUR	Cd (214.439 nm)	0.0530	0.22	3373.0708
	LCSW2 - 3 HOUR	Co (230.786 nm)	0.5251	0.13	8550.0771
	LCSW2 - 3 HOUR	Cr (267.716 nm)	0.2060	0.11	9378.8807
	LCSW2 - 3 HOUR	Cu (327.395 nm)	0.2558	0.27	9889.3259
	LCSW2 - 3 HOUR	Fe (234.350 nm)	1.0202	0.01	22997.0276
	LCSW2 - 3 HOUR	K (766.491 nm)	19.1667	0.35	20221.9895
	LCSW2 - 3 HOUR	Mg (279.078 nm)	2.0101	0.08	6666.5157
	LCSW2 - 3 HOUR	Mn (257.610 nm)	0.5036	0.02	170590.0289
	LCSW2 - 3 HOUR	Mo (202.032 nm)	0.5029	0.57	4154.0884
	LCSW2 - 3 HOUR	Na (588.995 nm)	19.9157	0.29	239771.8879
	LCSW2 - 3 HOUR	Ni (230.299 nm)	0.5393	0.07	6620.4349
	LCSW2 - 3 HOUR	Pb (220.353 nm)	0.5234	0.25	3002.9956
	LCSW2 - 3 HOUR	Sb (217.582 nm)	0.5071	0.93	1264.8733
	LCSW2 - 3 HOUR	Se (196.026 nm)	1.0682	0.23	882.7937
	LCSW2 - 3 HOUR	Sn (189.925 nm)	5.3012	0.12	16153.6981
	LCSW2 - 3 HOUR	Sr (216.596 nm)	2.1278	0.03	42615.4733
	LCSW2 - 3 HOUR	Ti (336.122 nm)	0.5080	0.09	68162.9920
	LCSW2 - 3 HOUR	Tl (190.794 nm)	2.0617	0.32	2629.8652
	LCSW2 - 3 HOUR	V (292.401 nm)	0.5021	0.07	20728.2596
	LCSW2 - 3 HOUR	Y (360.074 nm)	0.99	0.33	486055.50
	LCSW2 - 3 HOUR	Y_R (360.074 nm)	0.99	0.33	486126.31
	LCSW2 - 3 HOUR	Zn (213.857 nm)	0.5258	0.04	30880.3631
2/21/2024 14:59:57	Continuing Calibration Verification	Ag (328.068 nm)	0.5151	0.24	31282.6154
	Continuing Calibration Verification	Al (237.312 nm)	10.0532	0.21	25884.3251
	Continuing Calibration Verification	As (188.980 nm)	0.9821	0.52	1808.6657
	Continuing Calibration Verification	B (249.772 nm)	2.4306	0.06	82412.4355
	Continuing Calibration Verification	Ba (230.424 nm)	10.3272	0.24	505491.1592
	Continuing Calibration Verification	Be (313.107 nm)	0.2432	0.06	277931.1257
	Continuing Calibration Verification	Ca (317.933 nm)	25.8252	0.03	1042237.6449
	Continuing Calibration Verification	Cd (214.439 nm)	0.5112	0.16	32702.6733
	Continuing Calibration Verification	Co (230.786 nm)	2.5598	0.23	41492.2734
	Continuing Calibration Verification	Cr (267.716 nm)	0.5174	0.10	23669.7430
	Continuing Calibration Verification	Cu (327.395 nm)	1.2430	0.28	48198.1683
	Continuing Calibration Verification	Fe (234.350 nm)	5.0537	0.05	113798.8097

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	K (766.491 nm)	24.2349	0.44	25657.8141
	Continuing Calibration Verification	Mg (279.078 nm)	25.3434	0.02	84227.1442
	Continuing Calibration Verification	Mn (257.610 nm)	0.7502	0.04	254134.1184
	Continuing Calibration Verification	Mo (202.032 nm)	2.5574	0.33	21181.2946
	Continuing Calibration Verification	Na (588.995 nm)	25.0833	0.45	306164.0314
	Continuing Calibration Verification	Ni (230.299 nm)	2.1032	0.10	25592.4896
	Continuing Calibration Verification	Pb (220.353 nm)	0.5126	0.50	2940.6160
	Continuing Calibration Verification	Sb (217.582 nm)	4.9920	0.16	12303.3204
	Continuing Calibration Verification	Se (196.026 nm)	0.4926	0.07	403.5152
	Continuing Calibration Verification	Sn (189.925 nm)	5.0907	0.10	15512.3818
	Continuing Calibration Verification	Sr (216.596 nm)	2.5161	0.32	50401.7064
	Continuing Calibration Verification	Ti (336.122 nm)	2.5244	0.11	339302.6062
	Continuing Calibration Verification	Tl (190.794 nm)	1.0354	0.55	1318.6512
	Continuing Calibration Verification	V (292.401 nm)	2.5234	0.07	104479.3125
	Continuing Calibration Verification	Y (360.074 nm)	0.95	0.39	469556.10
	Continuing Calibration Verification	Y_R (360.074 nm)	0.95	0.39	469613.50
	Continuing Calibration Verification	Zn (213.857 nm)	0.9957	0.31	58523.2422
2/21/2024 15:03:11	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u	> 100.00	-274.4042
	Continuing Calibration Blank	Al (237.312 nm)	0.0003 u	> 100.00	87.0534
	Continuing Calibration Blank	As (188.980 nm)	0.0039	25.33	-6.7237
	Continuing Calibration Blank	B (249.772 nm)	0.0013	10.04	114.6802
	Continuing Calibration Blank	Ba (230.424 nm)	0.0001	58.92	-8.4963
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	52.18	-222.3029
	Continuing Calibration Blank	Ca (317.933 nm)	-0.0003 u	34.44	2634.6088
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	-16.9965
	Continuing Calibration Blank	Co (230.786 nm)	0.0002 u	> 100.00	52.0785
	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u	> 100.00	-71.1100
	Continuing Calibration Blank	Cu (327.395 nm)	0.0001	76.56	-28.6327
	Continuing Calibration Blank	Fe (234.350 nm)	0.0016	13.94	66.8460
	Continuing Calibration Blank	K (766.491 nm)	0.0361	29.57	-296.6587
	Continuing Calibration Blank	Mg (279.078 nm)	-0.0008 u	> 100.00	-17.7042
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000	> 100.00	-30.9931
	Continuing Calibration Blank	Mo (202.032 nm)	0.0045	15.44	24.1618
	Continuing Calibration Blank	Na (588.995 nm)	0.0145	24.99	-15911.7065
	Continuing Calibration Blank	Ni (230.299 nm)	0.0001 u	> 100.00	78.8111
	Continuing Calibration Blank	Pb (220.353 nm)	0.0003 u	> 100.00	-14.0814
	Continuing Calibration Blank	Sb (217.582 nm)	0.0086	14.07	38.0782
	Continuing Calibration Blank	Se (196.026 nm)	0.0014	93.40	-5.4714
	Continuing Calibration Blank	Sn (189.925 nm)	0.0018	73.51	11.3596
	Continuing Calibration Blank	Sr (216.596 nm)	0.0001	66.75	-50.5655
	Continuing Calibration Blank	Ti (336.122 nm)	0.0035	32.40	321.9135
	Continuing Calibration Blank	Tl (190.794 nm)	-0.0005 u	> 100.00	-4.8011
	Continuing Calibration Blank	V (292.401 nm)	0.0000 u	> 100.00	-74.1951
	Continuing Calibration Blank	Y (360.074 nm)	1.00	0.38	491367.50
	Continuing Calibration Blank	Y_R (360.074 nm)	1.00	0.38	491418.35
	Continuing Calibration Blank	Zn (213.857 nm)	0.0000 u	> 100.00	-55.1696
2/21/2024 15:06:25	LCSW3 - 3 HOUR	Ag (328.068 nm)	0.0523	0.37	2928.4416
	LCSW3 - 3 HOUR	Al (237.312 nm)	1.9865	0.20	5183.8189
	LCSW3 - 3 HOUR	As (188.980 nm)	0.0398	2.80	59.9036
	LCSW3 - 3 HOUR	B (249.772 nm)	1.0018	0.11	34008.8112
	LCSW3 - 3 HOUR	Ba (230.424 nm)	2.0824	0.12	101915.4324
	LCSW3 - 3 HOUR	Be (313.107 nm)	0.0494	0.11	56311.2798
	LCSW3 - 3 HOUR	Ca (317.933 nm)	2.0721	0.07	86058.5398
	LCSW3 - 3 HOUR	Cd (214.439 nm)	0.0530	0.11	3372.7242
	LCSW3 - 3 HOUR	Co (230.786 nm)	0.5258	0.08	8561.6993
	LCSW3 - 3 HOUR	Cr (267.716 nm)	0.2056	0.05	9360.9295
	LCSW3 - 3 HOUR	Cu (327.395 nm)	0.2562	0.28	9905.4700

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	LCSW3 - 3 HOUR	Fe (234.350 nm)	1.0197	0.09	22984.7730
	LCSW3 - 3 HOUR	K (766.491 nm)	19.1165	0.37	20168.1135
	LCSW3 - 3 HOUR	Mg (279.078 nm)	2.0072	0.08	6656.9005
	LCSW3 - 3 HOUR	Mn (257.610 nm)	0.5032	0.08	170463.1646
	LCSW3 - 3 HOUR	Mo (202.032 nm)	0.4990	0.60	4122.0781
	LCSW3 - 3 HOUR	Na (588.995 nm)	19.8247	0.29	238602.7286
	LCSW3 - 3 HOUR	Ni (230.299 nm)	0.5393	0.20	6619.5415
	LCSW3 - 3 HOUR	Pb (220.353 nm)	0.5237	0.19	3004.4573
	LCSW3 - 3 HOUR	Sb (217.582 nm)	0.5067	0.89	1263.9109
	LCSW3 - 3 HOUR	Se (196.026 nm)	1.0503	0.41	867.8628
	LCSW3 - 3 HOUR	Sn (189.925 nm)	5.2758	0.19	16076.3497
	LCSW3 - 3 HOUR	Sr (216.596 nm)	2.1266	0.15	42591.5506
	LCSW3 - 3 HOUR	Ti (336.122 nm)	0.5064	0.08	67956.8892
	LCSW3 - 3 HOUR	Tl (190.794 nm)	2.0597	0.24	2627.3169
	LCSW3 - 3 HOUR	V (292.401 nm)	0.5007	0.05	20669.8376
	LCSW3 - 3 HOUR	Y (360.074 nm)	0.98	0.55	484992.84
	LCSW3 - 3 HOUR	Y_R (360.074 nm)	0.98	0.55	485056.29
	LCSW3 - 3 HOUR	Zn (213.857 nm)	0.5239	0.12	30767.5810
2/21/2024 15:09:40	LCSW4 - 3 HOUR	Ag (328.068 nm)	0.0513	0.39	2869.6358
	LCSW4 - 3 HOUR	Al (237.312 nm)	1.9422	0.05	5070.1886
	LCSW4 - 3 HOUR	As (188.980 nm)	0.0390	3.17	58.4857
	LCSW4 - 3 HOUR	B (249.772 nm)	0.9807	0.08	33294.1010
	LCSW4 - 3 HOUR	Ba (230.424 nm)	2.0366	0.09	99673.9946
	LCSW4 - 3 HOUR	Be (313.107 nm)	0.0484	0.04	55105.0368
	LCSW4 - 3 HOUR	Ca (317.933 nm)	2.0320	0.06	84442.8577
	LCSW4 - 3 HOUR	Cd (214.439 nm)	0.0517	0.23	3289.1767
	LCSW4 - 3 HOUR	Co (230.786 nm)	0.5136	0.07	8364.5029
	LCSW4 - 3 HOUR	Cr (267.716 nm)	0.2010	0.13	9150.9691
	LCSW4 - 3 HOUR	Cu (327.395 nm)	0.2498	0.17	9658.6074
	LCSW4 - 3 HOUR	Fe (234.350 nm)	0.9979	0.03	22494.5748
	LCSW4 - 3 HOUR	K (766.491 nm)	18.7020	0.27	19723.5601
	LCSW4 - 3 HOUR	Mg (279.078 nm)	1.9619	0.11	6506.4226
	LCSW4 - 3 HOUR	Mn (257.610 nm)	0.4923	0.04	166778.2559
	LCSW4 - 3 HOUR	Mo (202.032 nm)	0.4912	0.53	4056.9600
	LCSW4 - 3 HOUR	Na (588.995 nm)	19.4152	0.22	233342.2990
	LCSW4 - 3 HOUR	Ni (230.299 nm)	0.5274	0.11	6475.3262
	LCSW4 - 3 HOUR	Pb (220.353 nm)	0.5121	0.08	2937.8214
	LCSW4 - 3 HOUR	Sb (217.582 nm)	0.4969	0.65	1239.7887
	LCSW4 - 3 HOUR	Se (196.026 nm)	1.0385	0.21	858.1160
	LCSW4 - 3 HOUR	Sn (189.925 nm)	5.1653	0.03	15739.7309
	LCSW4 - 3 HOUR	Sr (216.596 nm)	2.0800	0.12	41656.7298
	LCSW4 - 3 HOUR	Ti (336.122 nm)	0.4962	0.03	66583.8100
	LCSW4 - 3 HOUR	Tl (190.794 nm)	2.0178	0.09	2573.7742
	LCSW4 - 3 HOUR	V (292.401 nm)	0.4901	0.04	20230.1597
	LCSW4 - 3 HOUR	Y (360.074 nm)	0.98	0.31	484868.29
	LCSW4 - 3 HOUR	Y_R (360.074 nm)	0.98	0.31	484912.22
	LCSW4 - 3 HOUR	Zn (213.857 nm)	0.5166	0.00	30339.1608
2/21/2024 15:12:54	LCSW1 - 4 HOUR	Ag (328.068 nm)	0.0523	0.12	2929.5718
	LCSW1 - 4 HOUR	Al (237.312 nm)	2.0272	0.61	5288.1942
	LCSW1 - 4 HOUR	As (188.980 nm)	0.0403	5.90	60.8146
	LCSW1 - 4 HOUR	B (249.772 nm)	1.0097	0.23	34278.0552
	LCSW1 - 4 HOUR	Ba (230.424 nm)	2.1153	0.39	103525.7993
	LCSW1 - 4 HOUR	Be (313.107 nm)	0.0503	0.46	57329.2804
	LCSW1 - 4 HOUR	Ca (317.933 nm)	2.0973	0.34	87073.5109
	LCSW1 - 4 HOUR	Cd (214.439 nm)	0.0533	0.39	3392.9529
	LCSW1 - 4 HOUR	Co (230.786 nm)	0.5343	0.56	8699.0191
	LCSW1 - 4 HOUR	Cr (267.716 nm)	0.2097	0.51	9549.5394

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	LCSW1 - 4 HOUR	Cu (327.395 nm)	0.2593	0.54	10028.9795
	LCSW1 - 4 HOUR	Fe (234.350 nm)	1.0374	0.52	23384.3251
	LCSW1 - 4 HOUR	K (766.491 nm)	19.2315	0.35	20291.4208
	LCSW1 - 4 HOUR	Mg (279.078 nm)	2.0388	0.42	6761.8495
	LCSW1 - 4 HOUR	Mn (257.610 nm)	0.5117	0.45	173344.9030
	LCSW1 - 4 HOUR	Mo (202.032 nm)	0.5097	0.16	4210.3033
	LCSW1 - 4 HOUR	Na (588.995 nm)	20.0278	0.46	241212.4191
	LCSW1 - 4 HOUR	Ni (230.299 nm)	0.5486	0.46	6733.2323
	LCSW1 - 4 HOUR	Pb (220.353 nm)	0.5280	0.70	3029.1559
	LCSW1 - 4 HOUR	Sb (217.582 nm)	0.5162	1.43	1287.4126
	LCSW1 - 4 HOUR	Se (196.026 nm)	1.0678	1.00	882.4588
	LCSW1 - 4 HOUR	Sn (189.925 nm)	5.3425	0.37	16279.6043
	LCSW1 - 4 HOUR	Sr (216.596 nm)	2.1530	0.49	43119.5710
	LCSW1 - 4 HOUR	Ti (336.122 nm)	0.5159	0.44	69232.6385
	LCSW1 - 4 HOUR	Tl (190.794 nm)	2.0719	0.31	2642.9514
	LCSW1 - 4 HOUR	V (292.401 nm)	0.5085	0.35	20996.4076
	LCSW1 - 4 HOUR	Y (360.074 nm)	0.98	0.30	484475.90
	LCSW1 - 4 HOUR	Y_R (360.074 nm)	0.98	0.30	484471.49
	LCSW1 - 4 HOUR	Zn (213.857 nm)	0.5309	0.49	31179.3262
2/21/2024 15:16:08	LCSW2 - 4 HOUR	Ag (328.068 nm)	0.0519	0.04	2905.7299
	LCSW2 - 4 HOUR	Al (237.312 nm)	1.9739	0.11	5151.5157
	LCSW2 - 4 HOUR	As (188.980 nm)	0.0392	3.08	58.7926
	LCSW2 - 4 HOUR	B (249.772 nm)	0.9913	0.16	33653.0104
	LCSW2 - 4 HOUR	Ba (230.424 nm)	2.0611	0.08	100872.7942
	LCSW2 - 4 HOUR	Be (313.107 nm)	0.0490	0.12	55782.4580
	LCSW2 - 4 HOUR	Ca (317.933 nm)	2.0427	0.03	84873.9787
	LCSW2 - 4 HOUR	Cd (214.439 nm)	0.0523	0.11	3328.2821
	LCSW2 - 4 HOUR	Co (230.786 nm)	0.5196	0.09	8462.1514
	LCSW2 - 4 HOUR	Cr (267.716 nm)	0.2035	0.05	9267.4480
	LCSW2 - 4 HOUR	Cu (327.395 nm)	0.2528	0.37	9776.1769
	LCSW2 - 4 HOUR	Fe (234.350 nm)	1.0092	0.15	22748.2689
	LCSW2 - 4 HOUR	K (766.491 nm)	18.9435	0.54	19982.5700
	LCSW2 - 4 HOUR	Mg (279.078 nm)	1.9844	0.28	6581.1530
	LCSW2 - 4 HOUR	Mn (257.610 nm)	0.4984	0.11	168834.4022
	LCSW2 - 4 HOUR	Mo (202.032 nm)	0.4974	0.76	4108.4862
	LCSW2 - 4 HOUR	Na (588.995 nm)	19.6817	0.32	236765.1819
	LCSW2 - 4 HOUR	Ni (230.299 nm)	0.5347	0.05	6564.5867
	LCSW2 - 4 HOUR	Pb (220.353 nm)	0.5187	0.14	2975.7230
	LCSW2 - 4 HOUR	Sb (217.582 nm)	0.5024	0.81	1253.4755
	LCSW2 - 4 HOUR	Se (196.026 nm)	1.0541	0.29	871.0444
	LCSW2 - 4 HOUR	Sn (189.925 nm)	5.2229	0.16	15915.0914
	LCSW2 - 4 HOUR	Sr (216.596 nm)	2.0975	0.09	42006.9535
	LCSW2 - 4 HOUR	Ti (336.122 nm)	0.5028	0.09	67464.5069
	LCSW2 - 4 HOUR	Tl (190.794 nm)	2.0439	0.32	2607.1751
	LCSW2 - 4 HOUR	V (292.401 nm)	0.4958	0.20	20467.9615
	LCSW2 - 4 HOUR	Y (360.074 nm)	0.98	0.30	484521.50
	LCSW2 - 4 HOUR	Y_R (360.074 nm)	0.98	0.31	484531.98
	LCSW2 - 4 HOUR	Zn (213.857 nm)	0.5179	0.12	30415.3459
2/21/2024 15:19:21	LCSW3 - 4 HOUR	Ag (328.068 nm)	0.0530	0.08	2969.7714
	LCSW3 - 4 HOUR	Al (237.312 nm)	2.0170	0.32	5262.2286
	LCSW3 - 4 HOUR	As (188.980 nm)	0.0394	2.62	59.1710
	LCSW3 - 4 HOUR	B (249.772 nm)	1.0154	0.17	34471.1080
	LCSW3 - 4 HOUR	Ba (230.424 nm)	2.1140	0.29	103465.4691
	LCSW3 - 4 HOUR	Be (313.107 nm)	0.0502	0.07	57165.0804
	LCSW3 - 4 HOUR	Ca (317.933 nm)	2.0948	0.03	86973.5778
	LCSW3 - 4 HOUR	Cd (214.439 nm)	0.0535	0.14	3406.4231
	LCSW3 - 4 HOUR	Co (230.786 nm)	0.5325	0.18	8669.8337

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	LCSW3 - 4 HOUR	Cr (267.716 nm)	0.2086	0.10	9497.8007
	LCSW3 - 4 HOUR	Cu (327.395 nm)	0.2588	0.13	10006.3235
	LCSW3 - 4 HOUR	Fe (234.350 nm)	1.0340	0.02	23307.9624
	LCSW3 - 4 HOUR	K (766.491 nm)	19.3973	0.52	20469.2328
	LCSW3 - 4 HOUR	Mg (279.078 nm)	2.0347	0.20	6748.3052
	LCSW3 - 4 HOUR	Mn (257.610 nm)	0.5105	0.07	172927.8036
	LCSW3 - 4 HOUR	Mo (202.032 nm)	0.5097	0.78	4210.8619
	LCSW3 - 4 HOUR	Na (588.995 nm)	20.1589	0.35	242895.9058
	LCSW3 - 4 HOUR	Ni (230.299 nm)	0.5460	0.16	6701.3012
	LCSW3 - 4 HOUR	Pb (220.353 nm)	0.5308	0.39	3045.2974
	LCSW3 - 4 HOUR	Sb (217.582 nm)	0.5164	0.59	1287.7719
	LCSW3 - 4 HOUR	Se (196.026 nm)	1.0735	0.36	887.1814
	LCSW3 - 4 HOUR	Sn (189.925 nm)	5.3514	0.12	16306.4449
	LCSW3 - 4 HOUR	Sr (216.596 nm)	2.1523	0.24	43105.4812
	LCSW3 - 4 HOUR	Ti (336.122 nm)	0.5143	0.08	69008.9697
	LCSW3 - 4 HOUR	Tl (190.794 nm)	2.0900	0.19	2666.0104
	LCSW3 - 4 HOUR	V (292.401 nm)	0.5080	0.08	20973.9798
	LCSW3 - 4 HOUR	Y (360.074 nm)	0.98	0.42	483254.05
	LCSW3 - 4 HOUR	Y_R (360.074 nm)	0.98	0.42	483288.12
	LCSW3 - 4 HOUR	Zn (213.857 nm)	0.5303	0.06	31142.4469
2/21/2024 15:22:35	LCSW4 - 4 HOUR	Ag (328.068 nm)	0.0533	0.27	2990.2624
	LCSW4 - 4 HOUR	Al (237.312 nm)	2.0248	0.17	5282.1857
	LCSW4 - 4 HOUR	As (188.980 nm)	0.0380	3.45	56.6126
	LCSW4 - 4 HOUR	B (249.772 nm)	1.0264	0.06	34841.7026
	LCSW4 - 4 HOUR	Ba (230.424 nm)	2.1054	0.22	103041.6969
	LCSW4 - 4 HOUR	Be (313.107 nm)	0.0504	0.09	57410.2245
	LCSW4 - 4 HOUR	Ca (317.933 nm)	2.1019	0.09	87259.0654
	LCSW4 - 4 HOUR	Cd (214.439 nm)	0.0537	0.23	3423.0676
	LCSW4 - 4 HOUR	Co (230.786 nm)	0.5331	0.17	8680.0383
	LCSW4 - 4 HOUR	Cr (267.716 nm)	0.2077	0.12	9456.4924
	LCSW4 - 4 HOUR	Cu (327.395 nm)	0.2581	0.36	9981.5389
	LCSW4 - 4 HOUR	Fe (234.350 nm)	1.0294	0.10	23203.9689
	LCSW4 - 4 HOUR	K (766.491 nm)	19.3449	0.24	20413.0711
	LCSW4 - 4 HOUR	Mg (279.078 nm)	2.0388	0.25	6761.8726
	LCSW4 - 4 HOUR	Mn (257.610 nm)	0.5092	0.05	172496.0494
	LCSW4 - 4 HOUR	Mo (202.032 nm)	0.4720	0.83	3898.1284
	LCSW4 - 4 HOUR	Na (588.995 nm)	20.0901	0.20	242012.3100
	LCSW4 - 4 HOUR	Ni (230.299 nm)	0.5478	0.18	6723.1245
	LCSW4 - 4 HOUR	Pb (220.353 nm)	0.5318	0.19	3051.3671
	LCSW4 - 4 HOUR	Sb (217.582 nm)	0.4922	0.93	1228.2673
	LCSW4 - 4 HOUR	Se (196.026 nm)	1.1000 o	0.35	909.3212
	LCSW4 - 4 HOUR	Sn (189.925 nm)	5.0303	0.10	15328.6416
	LCSW4 - 4 HOUR	Sr (216.596 nm)	2.1437	0.15	42933.7456
	LCSW4 - 4 HOUR	Ti (336.122 nm)	0.5096	0.11	68381.0499
	LCSW4 - 4 HOUR	Tl (190.794 nm)	2.0945	0.10	2671.7373
	LCSW4 - 4 HOUR	V (292.401 nm)	0.5053	0.22	20860.7108
	LCSW4 - 4 HOUR	Y (360.074 nm)	0.98	0.47	484935.38
	LCSW4 - 4 HOUR	Y_R (360.074 nm)	0.98	0.47	484926.56
	LCSW4 - 4 HOUR	Zn (213.857 nm)	0.5399	0.16	31710.0779
2/21/2024 15:25:49	Continuing Calibration Verification	Ag (328.068 nm)	0.5139	0.11	31207.7020
	Continuing Calibration Verification	Al (237.312 nm)	10.0540	0.17	25886.4132
	Continuing Calibration Verification	As (188.980 nm)	0.9808	0.24	1806.1904
	Continuing Calibration Verification	B (249.772 nm)	2.4294	0.11	82371.0851
	Continuing Calibration Verification	Ba (230.424 nm)	10.2935	0.64	503843.7220
	Continuing Calibration Verification	Be (313.107 nm)	0.2432	0.04	277937.1797
	Continuing Calibration Verification	Ca (317.933 nm)	25.8167	0.06	1041894.3247
	Continuing Calibration Verification	Cd (214.439 nm)	0.5106	0.04	32663.8702

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	Co (230.786 nm)	2.5594	0.21	41486.2407
	Continuing Calibration Verification	Cr (267.716 nm)	0.5168	0.06	23639.0853
	Continuing Calibration Verification	Cu (327.395 nm)	1.2413	0.16	48131.2165
	Continuing Calibration Verification	Fe (234.350 nm)	5.0494	0.03	113701.1250
	Continuing Calibration Verification	K (766.491 nm)	24.2210	0.39	25642.9413
	Continuing Calibration Verification	Mg (279.078 nm)	25.2980	0.02	84076.2078
	Continuing Calibration Verification	Mn (257.610 nm)	0.7504	0.06	254204.6926
	Continuing Calibration Verification	Mo (202.032 nm)	2.5552	0.44	21162.6713
	Continuing Calibration Verification	Na (588.995 nm)	25.0243	0.35	305405.7292
	Continuing Calibration Verification	Ni (230.299 nm)	2.1031	0.07	25592.2495
	Continuing Calibration Verification	Pb (220.353 nm)	0.5124	0.17	2939.3934
	Continuing Calibration Verification	Sb (217.582 nm)	4.9876	0.10	12292.4403
	Continuing Calibration Verification	Se (196.026 nm)	0.4925	0.86	403.4503
	Continuing Calibration Verification	Sn (189.925 nm)	5.0844	0.06	15493.1453
	Continuing Calibration Verification	Sr (216.596 nm)	2.5202	0.24	50482.9459
	Continuing Calibration Verification	Ti (336.122 nm)	2.5246	0.03	339330.1392
	Continuing Calibration Verification	Tl (190.794 nm)	1.0350	0.11	1318.1341
	Continuing Calibration Verification	V (292.401 nm)	2.5227	0.03	104447.9911
	Continuing Calibration Verification	Y (360.074 nm)	0.96	0.39	470620.01
	Continuing Calibration Verification	Y_R (360.074 nm)	0.96	0.39	470607.54
	Continuing Calibration Verification	Zn (213.857 nm)	0.9918	0.19	58298.4792
2/21/2024 15:29:03	Continuing Calibration Blank	Ag (328.068 nm)	-0.0001 u	> 100.00	-278.4617
	Continuing Calibration Blank	Al (237.312 nm)	0.0004 u	> 100.00	87.1928
	Continuing Calibration Blank	As (188.980 nm)	0.0036	39.38	-7.2487
	Continuing Calibration Blank	B (249.772 nm)	0.0014	7.56	116.8844
	Continuing Calibration Blank	Ba (230.424 nm)	0.0001 u	> 100.00	-9.3696
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	52.49	-221.1618
	Continuing Calibration Blank	Ca (317.933 nm)	-0.0004 u	24.83	2628.3822
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	-17.1540
	Continuing Calibration Blank	Co (230.786 nm)	0.0002	32.08	52.8812
	Continuing Calibration Blank	Cr (267.716 nm)	-0.0002 u	20.14	-79.7821
	Continuing Calibration Blank	Cu (327.395 nm)	-0.0002 u	> 100.00	-40.7622
	Continuing Calibration Blank	Fe (234.350 nm)	0.0018	13.84	70.5564
	Continuing Calibration Blank	K (766.491 nm)	0.0650	49.24	-265.6573
	Continuing Calibration Blank	Mg (279.078 nm)	0.0005 u	> 100.00	-13.4138
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000	42.73	-30.2452
	Continuing Calibration Blank	Mo (202.032 nm)	0.0051	12.43	28.9237
	Continuing Calibration Blank	Na (588.995 nm)	0.0213	34.22	-15825.1587
	Continuing Calibration Blank	Ni (230.299 nm)	0.0000 u	> 100.00	76.8606
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0002 u	> 100.00	-17.2566
	Continuing Calibration Blank	Sb (217.582 nm)	0.0100	35.90	41.4462
	Continuing Calibration Blank	Se (196.026 nm)	0.0022 u	> 100.00	-4.8190
	Continuing Calibration Blank	Sn (189.925 nm)	0.0016	24.88	10.8999
	Continuing Calibration Blank	Sr (216.596 nm)	0.0001	49.04	-50.6442
	Continuing Calibration Blank	Ti (336.122 nm)	0.0036	31.21	340.5035
	Continuing Calibration Blank	Tl (190.794 nm)	-0.0031 u	14.12	-8.1210
	Continuing Calibration Blank	V (292.401 nm)	0.0001	77.37	-70.5814
	Continuing Calibration Blank	Y (360.074 nm)	1.00	0.31	492531.40
	Continuing Calibration Blank	Y_R (360.074 nm)	1.00	0.31	492497.04
	Continuing Calibration Blank	Zn (213.857 nm)	0.0000 u	87.93	-56.4481
2/21/2024 15:32:16	Contract Required Detection Limit	Ag (328.068 nm)	0.0097	2.09	318.7150
	Contract Required Detection Limit	Al (237.312 nm)	0.1976	0.48	593.2229
	Contract Required Detection Limit	As (188.980 nm)	0.0197	6.17	22.6052
	Contract Required Detection Limit	B (249.772 nm)	0.1917	0.19	6565.0995
	Contract Required Detection Limit	Ba (230.424 nm)	0.2064	0.23	10091.0022
	Contract Required Detection Limit	Be (313.107 nm)	0.0048	0.17	5314.2960
	Contract Required Detection Limit	Ca (317.933 nm)	1.0174	0.08	43600.1298

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Contract Required Detection Limit	Cd (214.439 nm)	0.0103	1.12	643.3224
	Contract Required Detection Limit	Co (230.786 nm)	0.0507	0.62	869.8006
	Contract Required Detection Limit	Cr (267.716 nm)	0.0102	0.16	397.9686
	Contract Required Detection Limit	Cu (327.395 nm)	0.0246	0.87	921.9127
	Contract Required Detection Limit	Fe (234.350 nm)	0.1094	0.16	2492.2492
	Contract Required Detection Limit	K (766.491 nm)	0.9773	0.85	712.8610
	Contract Required Detection Limit	Mg (279.078 nm)	0.9785	0.08	3237.6135
	Contract Required Detection Limit	Mn (257.610 nm)	0.0153	0.07	5164.0309
	Contract Required Detection Limit	Mo (202.032 nm)	0.0251	0.80	194.7997
	Contract Required Detection Limit	Na (588.995 nm)	0.9670	0.52	-3675.1779
	Contract Required Detection Limit	Ni (230.299 nm)	0.0401	1.56	563.9968
	Contract Required Detection Limit	Pb (220.353 nm)	0.0115	5.95	50.3020
	Contract Required Detection Limit	Sb (217.582 nm)	0.0623	4.23	170.2499
	Contract Required Detection Limit	Se (196.026 nm)	0.0099	9.63	1.6312
	Contract Required Detection Limit	Sn (189.925 nm)	0.5036	0.33	1540.0385
	Contract Required Detection Limit	Sr (216.596 nm)	0.1011	0.05	1973.6235
	Contract Required Detection Limit	Ti (336.122 nm)	0.0501	1.06	6588.0812
	Contract Required Detection Limit	Tl (190.794 nm)	0.0169	16.98	17.4211
	Contract Required Detection Limit	V (292.401 nm)	0.0492	0.35	1964.9390
	Contract Required Detection Limit	Y (360.074 nm)	0.99	0.45	488305.57
	Contract Required Detection Limit	Y_R (360.074 nm)	0.99	0.45	488268.61
	Contract Required Detection Limit	Zn (213.857 nm)	0.0199	0.33	1118.2662
2/21/2024 15:35:30	Interference Check Solution A	Ag (328.068 nm)	-0.0001 u	71.56	-281.7826
	Interference Check Solution A	Al (237.312 nm)	255.2836 o	0.03	655186.2905
	Interference Check Solution A	As (188.980 nm)	-0.0065 Ku+/-0.01	27.34	-25.9453 K
	Interference Check Solution A	B (249.772 nm)	0.1167	0.49	4025.1171
	Interference Check Solution A	Ba (230.424 nm)	0.0004	22.13	5.1639
	Interference Check Solution A	Be (313.107 nm)	0.0000 u	38.79	-247.7745
	Interference Check Solution A	Ca (317.933 nm)	241.7757 o	0.15	9735291.9350
	Interference Check Solution A	Cd (214.439 nm)	-0.0020 Ku+/-0.002	4.44	-142.3170 K
	Interference Check Solution A	Co (230.786 nm)	0.0018	16.37	77.8433
	Interference Check Solution A	Cr (267.716 nm)	0.0007	22.03	-38.1983
	Interference Check Solution A	Cu (327.395 nm)	0.0008	26.29	-4.7799
	Interference Check Solution A	Fe (234.350 nm)	94.8231 o	0.15	2134662.7871
	Interference Check Solution A	K (766.491 nm)	0.0359 u	> 100.00	-296.8764
	Interference Check Solution A	Mg (279.078 nm)	263.1515 o	0.11	874708.0094
	Interference Check Solution A	Mn (257.610 nm)	0.0013	0.95	422.2658
	Interference Check Solution A	Mo (202.032 nm)	-0.0024 u	14.05	-32.9705
	Interference Check Solution A	Na (588.995 nm)	-0.0726 u	5.44	-17031.1177
	Interference Check Solution A	Ni (230.299 nm)	0.0023	27.64	105.4977
	Interference Check Solution A	Pb (220.353 nm)	-0.0037 u	5.83	-36.9897
	Interference Check Solution A	Sb (217.582 nm)	-0.0019 u	> 100.00	12.0939
	Interference Check Solution A	Se (196.026 nm)	0.0033 u	> 100.00	-3.8900
	Interference Check Solution A	Sn (189.925 nm)	0.0047	5.37	20.3850
	Interference Check Solution A	Sr (216.596 nm)	0.0100	0.61	146.6730
	Interference Check Solution A	Ti (336.122 nm)	0.0023	17.33	164.6461
	Interference Check Solution A	Tl (190.794 nm)	0.0019 u	> 100.00	-1.6918
	Interference Check Solution A	V (292.401 nm)	0.0019	13.58	5.2027
	Interference Check Solution A	Y (360.074 nm)	0.87	0.37	429830.87
	Interference Check Solution A	Y_R (360.074 nm)	0.87	0.37	429873.26
	Interference Check Solution A	Zn (213.857 nm)	0.0117 K+/-0.02	0.69	633.8994 K
2/21/2024 15:38:44	Interference Check Solution AB	Ag (328.068 nm)	0.2057	0.19	12325.5475
	Interference Check Solution AB	Al (237.312 nm)	257.1862 o	0.05	660068.6688
	Interference Check Solution AB	As (188.980 nm)	0.0903	1.72	153.7565
	Interference Check Solution AB	B (249.772 nm)	0.1317	0.11	4531.6783
	Interference Check Solution AB	Ba (230.424 nm)	0.5298	0.08	25919.8894
	Interference Check Solution AB	Be (313.107 nm)	0.4856	0.14	555084.3716

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Interference Check Solution AB	Ca (317.933 nm)	243.3023 o	0.25	9796745.4078
	Interference Check Solution AB	Cd (214.439 nm)	0.9839	0.06	62961.9221
	Interference Check Solution AB	Co (230.786 nm)	0.4912	0.25	8001.4742
	Interference Check Solution AB	Cr (267.716 nm)	0.5103	0.11	23341.9227
	Interference Check Solution AB	Cu (327.395 nm)	0.5317	0.17	20598.0719
	Interference Check Solution AB	Fe (234.350 nm)	95.4557 o	0.09	2148903.5692
	Interference Check Solution AB	K (766.491 nm)	0.0137 u	> 100.00	-320.6824
	Interference Check Solution AB	Mg (279.078 nm)	265.0468 o	0.09	881008.0103
	Interference Check Solution AB	Mn (257.610 nm)	0.4953	0.05	167786.1584
	Interference Check Solution AB	Mo (202.032 nm)	-0.0036 u	15.10	-43.3751
	Interference Check Solution AB	Na (588.995 nm)	-0.0600 u	8.19	-16869.7232
	Interference Check Solution AB	Ni (230.299 nm)	0.9989	0.03	12195.1634
	Interference Check Solution AB	Pb (220.353 nm)	0.0468	1.10	254.0808
	Interference Check Solution AB	Sb (217.582 nm)	0.6116	0.68	1522.0185
	Interference Check Solution AB	Se (196.026 nm)	0.0545	8.78	38.7772
	Interference Check Solution AB	Sn (189.925 nm)	0.0033	34.77	16.0366
	Interference Check Solution AB	Sr (216.596 nm)	0.0104	1.19	155.1218
	Interference Check Solution AB	Ti (336.122 nm)	0.0021	10.96	134.9715
	Interference Check Solution AB	Tl (190.794 nm)	0.1009	1.24	124.8029
	Interference Check Solution AB	V (292.401 nm)	0.5083	0.06	20984.2351
	Interference Check Solution AB	Y (360.074 nm)	0.87	0.39	430849.45
	Interference Check Solution AB	Y_R (360.074 nm)	0.87	0.39	430930.46
	Interference Check Solution AB	Zn (213.857 nm)	1.0239	0.14	60186.1934
2/21/2024 15:41:58	HLCCV2	Ag (328.068 nm)	2.1963 o	0.12	134283.7265
	HLCCV2	Al (237.312 nm)	515.0803 o	0.02	1321867.6989
	HLCCV2	As (188.980 nm)	4.1382 o	0.18	7665.8418
	HLCCV2	B (249.772 nm)	10.8217 o	0.04	366679.4077
	HLCCV2	Ba (230.424 nm)	39.7510 o	0.07	1945755.1119
	HLCCV2	Be (313.107 nm)	1.0143 o	0.01	1159652.5699
	HLCCV2	Ca (317.933 nm)	239.6520 o	0.05	9649803.9234
	HLCCV2	Cd (214.439 nm)	1.9473 o	0.05	124627.3624
	HLCCV2	Co (230.786 nm)	9.7099 o	0.06	157251.5144
	HLCCV2	Cr (267.716 nm)	10.0870 o	0.05	462751.9299
	HLCCV2	Cu (327.395 nm)	5.4498 o	0.10	211430.3264
	HLCCV2	Fe (234.350 nm)	48.1694 o	0.04	1084408.1066
	HLCCV2	K (766.491 nm)	172.2318 Qo	0.05	184392.5912 Q
	HLCCV2	Mg (279.078 nm)	521.6419 o	0.04	1733937.4922
	HLCCV2	Mn (257.610 nm)	9.7401 o	0.06	3300141.6542
	HLCCV2	Mo (202.032 nm)	10.1380 o	0.24	84004.5655
	HLCCV2	Na (588.995 nm)	210.6229 o	0.29	2689916.8558
	HLCCV2	Ni (230.299 nm)	7.6920 o	0.10	93396.5431
	HLCCV2	Pb (220.353 nm)	9.7827 o	0.09	56403.5234
	HLCCV2	Sb (217.582 nm)	0.0208	11.45	68.1133
	HLCCV2	Se (196.026 nm)	2.0821 o	0.15	1727.0546
	HLCCV2	Sn (189.925 nm)	-0.0055 u	16.93	-10.8482
	HLCCV2	Sr (216.596 nm)	10.0912 o	0.11	202302.4290
	HLCCV2	Ti (336.122 nm)	10.2977 o	0.06	1384552.6361
	HLCCV2	Tl (190.794 nm)	3.8133 o	0.08	4867.8114
	HLCCV2	V (292.401 nm)	10.1072 o	0.02	418699.9245
	HLCCV2	Y (360.074 nm)	0.83	0.53	408058.97
	HLCCV2	Y_R (360.074 nm)	0.83	0.53	408142.83
	HLCCV2	Zn (213.857 nm)	4.2047 o	0.07	247323.5209
2/21/2024 15:45:13	HLCCV3	Ag (328.068 nm)	0.0019	8.40	-161.0678
	HLCCV3	Al (237.312 nm)	0.0552	6.20	227.9142
	HLCCV3	As (188.980 nm)	0.0302	20.85	42.1585
	HLCCV3	B (249.772 nm)	0.0604	1.42	2115.6590
	HLCCV3	Ba (230.424 nm)	0.0271	0.31	1310.9260

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	HLCCV3	Be (313.107 nm)	0.0006	0.65	485.2309
	HLCCV3	Ca (317.933 nm)	190.2454 o	0.14	7660949.6414
	HLCCV3	Cd (214.439 nm)	0.0014	4.15	69.7962
	HLCCV3	Co (230.786 nm)	0.0075	5.42	170.1090
	HLCCV3	Cr (267.716 nm)	0.0017	7.01	5.8579
	HLCCV3	Cu (327.395 nm)	4.1781 o	0.32	162084.6832
	HLCCV3	Fe (234.350 nm)	38.5205 o	0.13	867194.0216
	HLCCV3	K (766.491 nm)	110.0736 Qo	0.08	117724.5917 Q
	HLCCV3	Mg (279.078 nm)	411.8580 o	0.18	1369012.7126
	HLCCV3	Mn (257.610 nm)	0.0133	0.37	4486.8267
	HLCCV3	Mo (202.032 nm)	0.0199	3.87	151.4731
	HLCCV3	Na (588.995 nm)	153.8372 o	0.26	1960351.9473
	HLCCV3	Ni (230.299 nm)	-0.0146 u	1.72	-99.8508
	HLCCV3	Pb (220.353 nm)	0.0016	38.44	-6.8252
	HLCCV3	Sb (217.582 nm)	0.0099	15.80	41.2443
	HLCCV3	Se (196.026 nm)	0.0075	50.45	-0.3987
	HLCCV3	Sn (189.925 nm)	0.0150	7.46	51.5115
	HLCCV3	Sr (216.596 nm)	0.0140	3.05	226.9082
	HLCCV3	Ti (336.122 nm)	0.0315	9.09	4093.4240
	HLCCV3	Tl (190.794 nm)	2.8662 o	0.15	3657.7078
	HLCCV3	V (292.401 nm)	0.0077	0.79	245.1048
	HLCCV3	Y (360.074 nm)	0.87	0.51	427409.59
	HLCCV3	Y_R (360.074 nm)	0.87	0.51	427446.91
	HLCCV3	Zn (213.857 nm)	0.0095	0.25	507.5302
2/21/2024 15:48:28	HLCCV1	Ag (328.068 nm)	0.9992	0.21	60943.8209
	HLCCV1	Al (237.312 nm)	20.1544	0.16	51805.6812
	HLCCV1	As (188.980 nm)	1.9950	0.06	3688.4235
	HLCCV1	B (249.772 nm)	5.0310	0.03	170506.1794
	HLCCV1	Ba (230.424 nm)	20.0832	0.12	983038.2797
	HLCCV1	Be (313.107 nm)	0.5023	0.04	574218.5713
	HLCCV1	Ca (317.933 nm)	50.2274	0.02	2024543.0592
	HLCCV1	Cd (214.439 nm)	1.0020	0.10	64120.5098
	HLCCV1	Co (230.786 nm)	5.0164	0.06	81263.4420
	HLCCV1	Cr (267.716 nm)	0.9997	0.10	45796.6291
	HLCCV1	Cu (327.395 nm)	2.5016	0.17	97034.3764
	HLCCV1	Fe (234.350 nm)	10.0602	0.03	226502.4798
	HLCCV1	K (766.491 nm)	50.1137	0.27	53414.2664
	HLCCV1	Mg (279.078 nm)	50.1127	0.10	166560.8710
	HLCCV1	Mn (257.610 nm)	1.5065	0.06	510387.3465
	HLCCV1	Mo (202.032 nm)	5.0343	0.33	41708.1283
	HLCCV1	Na (588.995 nm)	49.6453	0.36	621728.0054
	HLCCV1	Ni (230.299 nm)	4.0048	0.03	48662.7855
	HLCCV1	Pb (220.353 nm)	1.0035	0.14	5771.3365
	HLCCV1	Sb (217.582 nm)	10.0219	0.33	24682.9345
	HLCCV1	Se (196.026 nm)	1.0022	0.52	827.8892
	HLCCV1	Sn (189.925 nm)	9.9984	0.14	30461.6204
	HLCCV1	Sr (216.596 nm)	5.0372	0.15	100955.4875
	HLCCV1	Ti (336.122 nm)	5.0264	0.06	675735.5262
	HLCCV1	Tl (190.794 nm)	2.0024	0.02	2554.1196
	HLCCV1	V (292.401 nm)	5.0123	0.06	207599.5124
	HLCCV1	Y (360.074 nm)	0.93	0.38	459147.91
	HLCCV1	Y_R (360.074 nm)	0.93	0.38	459152.94
	HLCCV1	Zn (213.857 nm)	1.9987	0.09	117534.1472
2/21/2024 15:51:42	Continuing Calibration Verification	Ag (328.068 nm)	0.5164	0.17	31359.7682
	Continuing Calibration Verification	Al (237.312 nm)	10.1165	0.19	26046.8977
	Continuing Calibration Verification	As (188.980 nm)	1.0015	0.15	1844.6492
	Continuing Calibration Verification	B (249.772 nm)	2.4494	0.07	83049.3647

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	Ba (230.424 nm)	10.3772	0.27	507939.8062
	Continuing Calibration Verification	Be (313.107 nm)	0.2448	0.05	279705.8063
	Continuing Calibration Verification	Ca (317.933 nm)	25.9970	0.09	1049150.4453
	Continuing Calibration Verification	Cd (214.439 nm)	0.5135	0.03	32850.9379
	Continuing Calibration Verification	Co (230.786 nm)	2.5755	0.18	41746.4592
	Continuing Calibration Verification	Cr (267.716 nm)	0.5184	0.11	23716.4772
	Continuing Calibration Verification	Cu (327.395 nm)	1.2475	0.10	48371.5053
	Continuing Calibration Verification	Fe (234.350 nm)	5.0895	0.06	114603.7922
	Continuing Calibration Verification	K (766.491 nm)	24.4285	0.38	25865.5380
	Continuing Calibration Verification	Mg (279.078 nm)	25.4562	0.06	84601.9908
	Continuing Calibration Verification	Mn (257.610 nm)	0.7543	0.06	255553.9742
	Continuing Calibration Verification	Mo (202.032 nm)	2.5735	0.20	21314.5018
	Continuing Calibration Verification	Na (588.995 nm)	25.1175	0.29	306603.5973
	Continuing Calibration Verification	Ni (230.299 nm)	2.1146	0.07	25731.7582
	Continuing Calibration Verification	Pb (220.353 nm)	0.5145	0.21	2951.5665
	Continuing Calibration Verification	Sb (217.582 nm)	5.0088	0.11	12344.4809
	Continuing Calibration Verification	Se (196.026 nm)	0.4864	0.20	398.3559
	Continuing Calibration Verification	Sn (189.925 nm)	5.1207	0.12	15603.8115
	Continuing Calibration Verification	Sr (216.596 nm)	2.5352	0.40	50783.9301
	Continuing Calibration Verification	Ti (336.122 nm)	2.5445	0.03	342005.2489
	Continuing Calibration Verification	Tl (190.794 nm)	1.0404	0.18	1325.0169
	Continuing Calibration Verification	V (292.401 nm)	2.5348	0.07	104950.0306
	Continuing Calibration Verification	Y (360.074 nm)	0.95	0.48	468715.88
	Continuing Calibration Verification	Y_R (360.074 nm)	0.95	0.48	468602.59
	Continuing Calibration Verification	Zn (213.857 nm)	0.9963	0.33	58562.0617
2/21/2024 15:54:56	Continuing Calibration Blank	Ag (328.068 nm)	-0.0001 u	> 100.00	-280.3482
	Continuing Calibration Blank	Al (237.312 nm)	0.0005 u	> 100.00	87.5264
	Continuing Calibration Blank	As (188.980 nm)	0.0040	39.75	-6.5340
	Continuing Calibration Blank	B (249.772 nm)	0.0028	8.95	167.6318
	Continuing Calibration Blank	Ba (230.424 nm)	0.0002	21.60	-2.9161
	Continuing Calibration Blank	Be (313.107 nm)	0.0000 u	> 100.00	-222.5411
	Continuing Calibration Blank	Ca (317.933 nm)	0.0000 u	> 100.00	2647.7136
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	-18.0943
	Continuing Calibration Blank	Co (230.786 nm)	-0.0001 u	90.50	47.9552
	Continuing Calibration Blank	Cr (267.716 nm)	-0.0001 u	> 100.00	-75.2358
	Continuing Calibration Blank	Cu (327.395 nm)	0.0002	70.50	-26.8489
	Continuing Calibration Blank	Fe (234.350 nm)	0.0020	16.61	75.2981
	Continuing Calibration Blank	K (766.491 nm)	0.1228	29.19	-203.6768
	Continuing Calibration Blank	Mg (279.078 nm)	0.0007 u	> 100.00	-12.8197
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000	53.31	-25.2868
	Continuing Calibration Blank	Mo (202.032 nm)	0.0054	24.34	31.3974
	Continuing Calibration Blank	Na (588.995 nm)	0.0725	4.58	-15166.6598
	Continuing Calibration Blank	Ni (230.299 nm)	0.0001 u	> 100.00	77.8619
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0002 u	> 100.00	-16.7426
	Continuing Calibration Blank	Sb (217.582 nm)	0.0125 Z 0.06M	16.41	47.6892 Z
	Continuing Calibration Blank	Se (196.026 nm)	0.0012 u	> 100.00	-5.6140
	Continuing Calibration Blank	Sn (189.925 nm)	0.0011	14.20	9.2351
	Continuing Calibration Blank	Sr (216.596 nm)	0.0000 u	> 100.00	-53.0203
	Continuing Calibration Blank	Ti (336.122 nm)	0.0045	32.82	463.9300
	Continuing Calibration Blank	Tl (190.794 nm)	-0.0007 u	> 100.00	-5.1032
	Continuing Calibration Blank	V (292.401 nm)	0.0002	52.70	-65.6334
	Continuing Calibration Blank	Y (360.074 nm)	1.00	0.39	491100.82
	Continuing Calibration Blank	Y_R (360.074 nm)	1.00	0.39	491021.54
	Continuing Calibration Blank	Zn (213.857 nm)	0.0000 u	> 100.00	-51.6603
2/21/2024 15:58:10	PBW-434252	Ag (328.068 nm)	0.0000 u	> 100.00	-275.2996
	PBW-434252	Al (237.312 nm)	0.0003 u	> 100.00	87.0483
	PBW-434252	As (188.980 nm)	0.0032	34.06	-8.0206

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	PBW-434252	B (249.772 nm)	0.0019	4.39	135.0588
	PBW-434252	Ba (230.424 nm)	0.0001	77.85	-7.0059
	PBW-434252	Be (313.107 nm)	0.0000	78.82	-214.0569
	PBW-434252	Ca (317.933 nm)	0.0067	0.76	2914.4758
	PBW-434252	Cd (214.439 nm)	0.0000 u	> 100.00	-16.9804
	PBW-434252	Co (230.786 nm)	-0.0003 u	> 100.00	45.2543
	PBW-434252	Cr (267.716 nm)	0.0002	46.80	-64.1413
	PBW-434252	Cu (327.395 nm)	0.0002	31.77	-27.8318
	PBW-434252	Fe (234.350 nm)	0.0051	6.02	144.6909
	PBW-434252	K (766.491 nm)	0.0822	35.37	-247.2346
	PBW-434252	Mg (279.078 nm)	-0.0002 u	> 100.00	-15.6632
	PBW-434252	Mn (257.610 nm)	0.0001	33.92	-6.8045
	PBW-434252	Mo (202.032 nm)	0.0012	38.45	-3.4531
	PBW-434252	Na (588.995 nm)	0.0708	4.72	-15189.4077
	PBW-434252	Ni (230.299 nm)	-0.0003 u	> 100.00	73.2013
	PBW-434252	Pb (220.353 nm)	0.0000 u	> 100.00	-15.7940
	PBW-434252	Sb (217.582 nm)	0.0107	40.20	43.2190
	PBW-434252	Se (196.026 nm)	0.0017 u	> 100.00	-5.2430
	PBW-434252	Sn (189.925 nm)	0.0010	49.71	9.0093
	PBW-434252	Sr (216.596 nm)	0.0001	77.86	-51.1423
	PBW-434252	Ti (336.122 nm)	0.0015	57.01	56.3402
	PBW-434252	Tl (190.794 nm)	-0.0022 u	15.37	-6.9793
	PBW-434252	V (292.401 nm)	0.0003 u	> 100.00	-63.1922
	PBW-434252	Y (360.074 nm)	1.01	0.41	495566.13
	PBW-434252	Y_R (360.074 nm)	1.01	0.40	495414.31
	PBW-434252	Zn (213.857 nm)	0.0025	3.83	90.4449
2/21/2024 16:01:24	FBLK-434252	Ag (328.068 nm)	0.0000 u	> 100.00	-275.1224
	FBLK-434252	Al (237.312 nm)	0.0009	18.45	88.4807
	FBLK-434252	As (188.980 nm)	0.0021 u	> 100.00	-9.9325
	FBLK-434252	B (249.772 nm)	0.0013	9.41	115.4762
	FBLK-434252	Ba (230.424 nm)	0.0001	12.70	-11.1027
	FBLK-434252	Be (313.107 nm)	0.0000	> 100.00	-221.0635
	FBLK-434252	Ca (317.933 nm)	0.0114	0.92	3104.2659
	FBLK-434252	Cd (214.439 nm)	0.0000	9.97	-14.4284
	FBLK-434252	Co (230.786 nm)	-0.0001 u	71.86	47.0906
	FBLK-434252	Cr (267.716 nm)	0.0001	68.34	-66.4044
	FBLK-434252	Cu (327.395 nm)	0.0006	19.27	-12.7815
	FBLK-434252	Fe (234.350 nm)	0.0052	4.70	147.0709
	FBLK-434252	K (766.491 nm)	0.0906	15.92	-238.2618
	FBLK-434252	Mg (279.078 nm)	0.0021	42.25	-8.1450
	FBLK-434252	Mn (257.610 nm)	0.0001	23.49	10.0076
	FBLK-434252	Mo (202.032 nm)	0.0005	43.84	-9.0359
	FBLK-434252	Na (588.995 nm)	0.1098	5.11	-14687.2049
	FBLK-434252	Ni (230.299 nm)	-0.0003 u	> 100.00	73.8482
	FBLK-434252	Pb (220.353 nm)	-0.0007 u	> 100.00	-19.9016
	FBLK-434252	Sb (217.582 nm)	0.0085	5.17	37.7119
	FBLK-434252	Se (196.026 nm)	-0.0018 u	> 100.00	-8.1349
	FBLK-434252	Sn (189.925 nm)	0.0005	18.01	7.5688
	FBLK-434252	Sr (216.596 nm)	0.0001 u	> 100.00	-51.1331
	FBLK-434252	Ti (336.122 nm)	0.0006 u	> 100.00	-65.0040
	FBLK-434252	Tl (190.794 nm)	-0.0033 u	30.27	-8.3841
	FBLK-434252	V (292.401 nm)	0.0002 u	> 100.00	-67.5587
	FBLK-434252	Y (360.074 nm)	1.01	0.23	497393.01
	FBLK-434252	Y_R (360.074 nm)	1.01	0.22	497183.31
	FBLK-434252	Zn (213.857 nm)	0.0018	1.45	50.4663
2/21/2024 16:04:38	LCSW-434252	Ag (328.068 nm)	0.0510	0.22	2848.1954
	LCSW-434252	Al (237.312 nm)	1.9373	0.28	5057.6452

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	LCSW-434252	As (188.980 nm)	0.0389	2.37	58.2808
	LCSW-434252	B (249.772 nm)	0.9681	0.22	32866.9478
	LCSW-434252	Ba (230.424 nm)	2.0357	0.24	99629.2334
	LCSW-434252	Be (313.107 nm)	0.0483	0.15	54958.0239
	LCSW-434252	Ca (317.933 nm)	2.0132	0.07	83685.7165
	LCSW-434252	Cd (214.439 nm)	0.0514	0.20	3272.5201
	LCSW-434252	Co (230.786 nm)	0.5129	0.14	8353.6873
	LCSW-434252	Cr (267.716 nm)	0.2001	0.26	9111.4994
	LCSW-434252	Cu (327.395 nm)	0.2488	0.28	9619.7465
	LCSW-434252	Fe (234.350 nm)	0.9942	0.05	22410.9248
	LCSW-434252	K (766.491 nm)	18.5721	0.20	19584.1560
	LCSW-434252	Mg (279.078 nm)	1.9540	0.13	6480.1292
	LCSW-434252	Mn (257.610 nm)	0.4911	0.10	166374.0840
	LCSW-434252	Mo (202.032 nm)	0.4853	0.70	4008.7142
	LCSW-434252	Na (588.995 nm)	19.2585	0.31	231328.8512
	LCSW-434252	Ni (230.299 nm)	0.5249	0.21	6445.7243
	LCSW-434252	Pb (220.353 nm)	0.5123	0.26	2938.7534
	LCSW-434252	Sb (217.582 nm)	0.4909	1.01	1225.1125
	LCSW-434252	Se (196.026 nm)	0.9785	0.30	808.1445
	LCSW-434252	Sn (189.925 nm)	4.9686	0.18	15140.4345
	LCSW-434252	Sr (216.596 nm)	2.0162	0.12	40376.7642
	LCSW-434252	Ti (336.122 nm)	0.4918	0.15	65989.2758
	LCSW-434252	Tl (190.794 nm)	2.0105	0.28	2564.4400
	LCSW-434252	V (292.401 nm)	0.4891	0.07	20188.9661
	LCSW-434252	Y (360.074 nm)	0.99	0.42	485930.52
	LCSW-434252	Y_R (360.074 nm)	0.99	0.42	485776.44
	LCSW-434252	Zn (213.857 nm)	0.5085	0.15	29861.1639
2/21/2024 16:07:52	R2401218-001	Ag (328.068 nm)	-0.0003 u	48.31	-291.4109
	R2401218-001	Al (237.312 nm)	0.0076	23.07	105.6812
	R2401218-001	As (188.980 nm)	0.0088	16.15	2.4862
	R2401218-001	B (249.772 nm)	0.6009	0.14	20428.3340
	R2401218-001	Ba (230.424 nm)	0.1642	0.21	8025.1193
	R2401218-001	Be (313.107 nm)	0.0000	46.10	-211.6430
	R2401218-001	Ca (317.933 nm)	137.2862 o	0.12	5529081.3490
	R2401218-001	Cd (214.439 nm)	0.0001	47.48	-9.4418
	R2401218-001	Co (230.786 nm)	0.0043	4.34	118.6619
	R2401218-001	Cr (267.716 nm)	-0.0033 u	1.98	-220.9357
	R2401218-001	Cu (327.395 nm)	0.0240	0.59	897.7645
	R2401218-001	Fe (234.350 nm)	1.6574	0.14	37341.0626
	R2401218-001	K (766.491 nm)	25.2923	0.24	26791.9304
	R2401218-001	Mg (279.078 nm)	18.8175	0.09	62534.9662
	R2401218-001	Mn (257.610 nm)	12.5580 o	0.07	4254922.7703
	R2401218-001	Mo (202.032 nm)	0.0034	6.81	14.9178
	R2401218-001	Na (588.995 nm)	140.3400 o	0.45	1786944.8843
	R2401218-001	Ni (230.299 nm)	0.0160	3.92	270.6458
	R2401218-001	Pb (220.353 nm)	0.0039	27.22	6.8950
	R2401218-001	Sb (217.582 nm)	0.0070	45.24	34.0568
	R2401218-001	Se (196.026 nm)	0.0113	36.64	2.7407
	R2401218-001	Sn (189.925 nm)	0.0031	7.71	15.3677
	R2401218-001	Sr (216.596 nm)	0.3364	0.29	6693.4190
	R2401218-001	Ti (336.122 nm)	0.0031	13.64	280.0942
	R2401218-001	Tl (190.794 nm)	0.0004 u	> 100.00	-3.6411
	R2401218-001	V (292.401 nm)	0.0005	50.20	-51.5323
	R2401218-001	Y (360.074 nm)	0.93	0.44	459491.09
	R2401218-001	Y_R (360.074 nm)	0.93	0.44	459487.21
	R2401218-001	Zn (213.857 nm)	0.0221	0.28	1243.6210
2/21/2024 16:11:06	R2401218-002	Ag (328.068 nm)	-0.0001 u	97.17	-278.5078

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401218-002	Al (237.312 nm)	0.3494	0.42	982.8782
	R2401218-002	As (188.980 nm)	0.0210	0.39	25.0208
	R2401218-002	B (249.772 nm)	4.5373	0.03	153782.5375
	R2401218-002	Ba (230.424 nm)	0.2394	0.06	11702.5427
	R2401218-002	Be (313.107 nm)	0.0000	21.76	-191.1291
	R2401218-002	Ca (317.933 nm)	152.1636 o	0.09	6127969.8579
	R2401218-002	Cd (214.439 nm)	0.0003	11.43	1.5982
	R2401218-002	Co (230.786 nm)	0.0106	3.37	221.1762
	R2401218-002	Cr (267.716 nm)	0.0710	0.41	3184.8962
	R2401218-002	Cu (327.395 nm)	0.4320	0.10	16727.0649
	R2401218-002	Fe (234.350 nm)	12.6039 o	0.10	283767.0726
	R2401218-002	K (766.491 nm)	215.2233 o VR	0.13	230503.3252
	R2401218-002	Mg (279.078 nm)	50.3175	0.05	167241.7455
	R2401218-002	Mn (257.610 nm)	3.2931 o	0.04	1115752.0405
	R2401218-002	Mo (202.032 nm)	0.0025	9.27	7.4544
	R2401218-002	Na (588.995 nm)	508.1274 o VR	0.52	6512158.1975
	R2401218-002	Ni (230.299 nm)	0.0651	0.39	866.7063
	R2401218-002	Pb (220.353 nm)	0.0329	2.36	173.6712
	R2401218-002	Sb (217.582 nm)	0.0071	25.74	34.4241
	R2401218-002	Se (196.026 nm)	0.0064	34.53	-1.2891
	R2401218-002	Sn (189.925 nm)	0.0119	2.07	42.2710
	R2401218-002	Sr (216.596 nm)	0.6263	0.15	12506.3454
	R2401218-002	Ti (336.122 nm)	0.0199	1.76	2535.7695
	R2401218-002	Tl (190.794 nm)	0.0001 u	> 100.00	-4.0526
	R2401218-002	V (292.401 nm)	0.0106	2.48	363.9891
	R2401218-002	Y (360.074 nm)	0.88	0.28	432654.85
	R2401218-002	Y_R (360.074 nm)	0.88	0.28	432637.27
	R2401218-002	Zn (213.857 nm)	0.2355	0.02	13798.7490
2/21/2024 16:14:20	R2401218-003	Ag (328.068 nm)	0.0001 u	> 100.00	-269.9809
	R2401218-003	Al (237.312 nm)	0.1566	1.65	487.9169
	R2401218-003	As (188.980 nm)	0.0155	15.48	14.8962
	R2401218-003	B (249.772 nm)	4.7669	0.06	161560.5420
	R2401218-003	Ba (230.424 nm)	0.2848	0.13	13926.9005
	R2401218-003	Be (313.107 nm)	0.0000	36.72	-204.3780
	R2401218-003	Ca (317.933 nm)	230.1476 o	0.08	9267206.0690
	R2401218-003	Cd (214.439 nm)	0.0006	16.19	22.0058
	R2401218-003	Co (230.786 nm)	0.0101	2.98	213.3509
	R2401218-003	Cr (267.716 nm)	0.0440	0.47	1947.7774
	R2401218-003	Cu (327.395 nm)	0.0660	0.51	2528.0699
	R2401218-003	Fe (234.350 nm)	5.2168	0.04	117470.7666
	R2401218-003	K (766.491 nm)	184.8317 o VR	0.23	197906.6450
	R2401218-003	Mg (279.078 nm)	58.4319 o	0.02	194214.3190
	R2401218-003	Mn (257.610 nm)	4.1784 o	0.04	1415717.4193
	R2401218-003	Mo (202.032 nm)	0.0028	11.13	9.8881
	R2401218-003	Na (588.995 nm)	453.6043 o VR	0.37	5811662.9217
	R2401218-003	Ni (230.299 nm)	0.0640	0.43	854.0872
	R2401218-003	Pb (220.353 nm)	0.0076	11.44	28.0366
	R2401218-003	Sb (217.582 nm)	0.0067	37.25	33.4085
	R2401218-003	Se (196.026 nm)	0.0061	64.54	-1.5826
	R2401218-003	Sn (189.925 nm)	0.0061	6.24	24.6011
	R2401218-003	Sr (216.596 nm)	1.4041	0.09	28102.6036
	R2401218-003	Ti (336.122 nm)	0.0117	2.16	1425.0654
	R2401218-003	Tl (190.794 nm)	-0.0001 u	> 100.00	-4.2703
	R2401218-003	V (292.401 nm)	0.0063	3.10	188.4238
	R2401218-003	Y (360.074 nm)	0.88	0.28	433453.93
	R2401218-003	Y_R (360.074 nm)	0.88	0.28	433437.55
	R2401218-003	Zn (213.857 nm)	0.1309	0.16	7645.5064

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
2/21/2024 16:17:34	R2401217-001	Ag (328.068 nm)	0.0001 u	> 100.00	-270.7710
	R2401217-001	Al (237.312 nm)	0.1542	0.76	481.8990
	R2401217-001	As (188.980 nm)	-0.0010 u	> 100.00	-15.6835
	R2401217-001	B (249.772 nm)	0.0163	3.61	623.1667
	R2401217-001	Ba (230.424 nm)	0.0829	0.10	4043.2130
	R2401217-001	Be (313.107 nm)	0.0000	6.11	-212.2257
	R2401217-001	Ca (317.933 nm)	23.6306	0.08	953892.0082
	R2401217-001	Cd (214.439 nm)	0.0001	40.52	-7.3526
	R2401217-001	Co (230.786 nm)	0.0001 u	97.38	51.5961
	R2401217-001	Cr (267.716 nm)	0.0004	40.70	-51.3616
	R2401217-001	Cu (327.395 nm)	0.0006	39.50	-10.7621
	R2401217-001	Fe (234.350 nm)	0.2311	0.25	5232.7014
	R2401217-001	K (766.491 nm)	4.0108	1.51	3966.4537
	R2401217-001	Mg (279.078 nm)	6.7443	0.05	22403.1123
	R2401217-001	Mn (257.610 nm)	0.0099	0.14	3306.6191
	R2401217-001	Mo (202.032 nm)	0.0003 u	> 100.00	-11.1022
	R2401217-001	Na (588.995 nm)	92.1812 o	0.14	1168215.8021
	R2401217-001	Ni (230.299 nm)	0.0000 u	> 100.00	76.9503
	R2401217-001	Pb (220.353 nm)	0.0001 u	> 100.00	-15.3542
	R2401217-001	Sb (217.582 nm)	0.0040	29.62	26.7004
	R2401217-001	Se (196.026 nm)	0.0001 u	> 100.00	-6.5642
	R2401217-001	Sn (189.925 nm)	0.0013	30.69	9.8463
	R2401217-001	Sr (216.596 nm)	0.0571	0.91	1092.7364
	R2401217-001	Ti (336.122 nm)	0.0033	15.01	306.2442
	R2401217-001	Tl (190.794 nm)	-0.0016 u	87.76	-6.1913
	R2401217-001	V (292.401 nm)	0.0004	26.51	-57.6286
	R2401217-001	Y (360.074 nm)	0.96	0.38	471598.75
	R2401217-001	Y_R (360.074 nm)	0.96	0.38	471419.93
	R2401217-001	Zn (213.857 nm)	0.0061	2.36	304.2077
2/21/2024 16:20:49	R2401217-002	Ag (328.068 nm)	0.0000 u	> 100.00	-276.3945
	R2401217-002	Al (237.312 nm)	0.1711	1.85	525.1597
	R2401217-002	As (188.980 nm)	0.0008 u	> 100.00	-12.3490
	R2401217-002	B (249.772 nm)	0.0071	2.33	311.1157
	R2401217-002	Ba (230.424 nm)	0.0185	0.25	891.6835
	R2401217-002	Be (313.107 nm)	0.0000	49.88	-212.2639
	R2401217-002	Ca (317.933 nm)	6.7649	0.03	274967.6436
	R2401217-002	Cd (214.439 nm)	0.0002	16.11	-0.9262
	R2401217-002	Co (230.786 nm)	-0.0002 u	> 100.00	46.6250
	R2401217-002	Cr (267.716 nm)	0.0007	36.96	-39.4426
	R2401217-002	Cu (327.395 nm)	0.0011	8.83	6.3941
	R2401217-002	Fe (234.350 nm)	0.2223	0.13	5035.5258
	R2401217-002	K (766.491 nm)	0.9283	3.92	660.2501
	R2401217-002	Mg (279.078 nm)	1.8883	0.21	6261.7468
	R2401217-002	Mn (257.610 nm)	0.0135	0.32	4541.0117
	R2401217-002	Mo (202.032 nm)	0.0001	39.04	-12.4455
	R2401217-002	Na (588.995 nm)	4.5430	0.35	42268.8380
	R2401217-002	Ni (230.299 nm)	-0.0003 u	> 100.00	72.9209
	R2401217-002	Pb (220.353 nm)	0.0015	12.35	-7.2565
	R2401217-002	Sb (217.582 nm)	0.0044	39.67	27.7861
	R2401217-002	Se (196.026 nm)	-0.0003 u	> 100.00	-6.8726
	R2401217-002	Sn (189.925 nm)	0.0007	53.92	8.2022
	R2401217-002	Sr (216.596 nm)	0.0174	2.17	296.4021
	R2401217-002	Ti (336.122 nm)	0.0040	5.96	392.3459
	R2401217-002	Tl (190.794 nm)	-0.0024 u	26.88	-7.1985
	R2401217-002	V (292.401 nm)	0.0004	36.13	-58.5571
	R2401217-002	Y (360.074 nm)	1.00	0.38	491973.51
	R2401217-002	Y_R (360.074 nm)	1.00	0.38	491711.18

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401217-002	Zn (213.857 nm)	0.0071	0.66	361.1709
2/21/2024 16:24:03	R2401217-003	Ag (328.068 nm)	0.0000 u	> 100.00	-277.3494
	R2401217-003	Al (237.312 nm)	0.0805	1.29	292.6141
	R2401217-003	As (188.980 nm)	0.0004 u	> 100.00	-13.1344
	R2401217-003	B (249.772 nm)	0.0064	0.67	288.5675
	R2401217-003	Ba (230.424 nm)	0.0183	0.61	880.2709
	R2401217-003	Be (313.107 nm)	0.0000	25.18	-206.0816
	R2401217-003	Ca (317.933 nm)	6.9544	0.07	282595.5517
	R2401217-003	Cd (214.439 nm)	0.0000 u	> 100.00	-15.6732
	R2401217-003	Co (230.786 nm)	-0.0001 u	> 100.00	48.5844
	R2401217-003	Cr (267.716 nm)	0.0006	37.53	-43.4148
	R2401217-003	Cu (327.395 nm)	0.0002	66.06	-27.4597
	R2401217-003	Fe (234.350 nm)	0.0967	0.23	2206.7915
	R2401217-003	K (766.491 nm)	0.8936	5.76	623.0675
	R2401217-003	Mg (279.078 nm)	2.1389	0.11	7094.7562
	R2401217-003	Mn (257.610 nm)	0.0064	0.14	2136.1666
	R2401217-003	Mo (202.032 nm)	0.0000 u	> 100.00	-13.3326
	R2401217-003	Na (588.995 nm)	5.4491	0.32	53909.7498
	R2401217-003	Ni (230.299 nm)	-0.0009 u	26.05	65.9503
	R2401217-003	Pb (220.353 nm)	-0.0002 u	> 100.00	-17.0483
	R2401217-003	Sb (217.582 nm)	0.0044	53.59	27.5807
	R2401217-003	Se (196.026 nm)	-0.0023 u	> 100.00	-8.5248
	R2401217-003	Sn (189.925 nm)	0.0010	52.35	8.9387
	R2401217-003	Sr (216.596 nm)	0.0174	1.95	295.4767
	R2401217-003	Ti (336.122 nm)	0.0014	26.72	40.9290
	R2401217-003	Tl (190.794 nm)	-0.0037 u	11.47	-8.8629
	R2401217-003	V (292.401 nm)	0.0003	79.74	-62.8749
	R2401217-003	Y (360.074 nm)	1.00	0.40	491422.51
	R2401217-003	Y_R (360.074 nm)	1.00	0.40	491176.31
	R2401217-003	Zn (213.857 nm)	0.0035	1.39	152.8276
2/21/2024 16:27:17	R2401217-004	Ag (328.068 nm)	0.0001	25.70	-266.4794
	R2401217-004	Al (237.312 nm)	0.0245	2.97	148.9433
	R2401217-004	As (188.980 nm)	-0.0006 u	> 100.00	-15.1153
	R2401217-004	B (249.772 nm)	0.0808	0.20	2806.8216
	R2401217-004	Ba (230.424 nm)	0.0329	0.15	1597.4886
	R2401217-004	Be (313.107 nm)	0.0000	69.79	-218.4665
	R2401217-004	Ca (317.933 nm)	12.0942	0.07	489495.1661
	R2401217-004	Cd (214.439 nm)	0.0001	65.93	-10.9183
	R2401217-004	Co (230.786 nm)	-0.0001 u	> 100.00	48.2576
	R2401217-004	Cr (267.716 nm)	0.0004	44.39	-51.9302
	R2401217-004	Cu (327.395 nm)	0.0015	18.55	25.1840
	R2401217-004	Fe (234.350 nm)	0.1189	0.09	2706.4513
	R2401217-004	K (766.491 nm)	3.1322	1.58	3024.0412
	R2401217-004	Mg (279.078 nm)	3.3921	0.09	11260.1854
	R2401217-004	Mn (257.610 nm)	0.0032	0.44	1064.9157
	R2401217-004	Mo (202.032 nm)	-0.0002 u	47.88	-14.9540
	R2401217-004	Na (588.995 nm)	16.3218	0.33	193598.9566
	R2401217-004	Ni (230.299 nm)	-0.0004 u	48.93	72.2962
	R2401217-004	Pb (220.353 nm)	0.0006	87.77	-12.3632
	R2401217-004	Sb (217.582 nm)	0.0024	14.75	22.6652
	R2401217-004	Se (196.026 nm)	0.0001 u	> 100.00	-6.5868
	R2401217-004	Sn (189.925 nm)	0.0005 u	> 100.00	7.4147
	R2401217-004	Sr (216.596 nm)	0.0302	0.80	553.2758
	R2401217-004	Ti (336.122 nm)	0.0001 u	> 100.00	-132.4422
	R2401217-004	Tl (190.794 nm)	-0.0032 u	27.09	-8.3229
	R2401217-004	V (292.401 nm)	0.0002 u	88.85	-67.6337
	R2401217-004	Y (360.074 nm)	0.99	0.39	486710.63

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401217-004	Y_R (360.074 nm)	0.99	0.38	486471.79
	R2401217-004	Zn (213.857 nm)	0.0049	1.42	234.1004
2/21/2024 16:30:31	Continuing Calibration Verification	Ag (328.068 nm)	0.5162	0.17	31348.1903
	Continuing Calibration Verification	Al (237.312 nm)	10.0613	0.14	25905.1535
	Continuing Calibration Verification	As (188.980 nm)	0.9859	0.34	1815.6972
	Continuing Calibration Verification	B (249.772 nm)	2.4445	0.15	82882.5682
	Continuing Calibration Verification	Ba (230.424 nm)	10.3449	0.14	506356.6772
	Continuing Calibration Verification	Be (313.107 nm)	0.2446	0.09	279493.6098
	Continuing Calibration Verification	Ca (317.933 nm)	25.9335	0.04	1046596.3811
	Continuing Calibration Verification	Cd (214.439 nm)	0.5121	0.08	32762.4480
	Continuing Calibration Verification	Co (230.786 nm)	2.5662	0.57	41595.8188
	Continuing Calibration Verification	Cr (267.716 nm)	0.5166	0.09	23631.7411
	Continuing Calibration Verification	Cu (327.395 nm)	1.2471	0.31	48355.2471
	Continuing Calibration Verification	Fe (234.350 nm)	5.0648	0.05	114048.9169
	Continuing Calibration Verification	K (766.491 nm)	24.2942	0.48	25721.4827
	Continuing Calibration Verification	Mg (279.078 nm)	25.3430	0.12	84225.7358
	Continuing Calibration Verification	Mn (257.610 nm)	0.7522	0.05	254828.7248
	Continuing Calibration Verification	Mo (202.032 nm)	2.5598	0.35	21200.8178
	Continuing Calibration Verification	Na (588.995 nm)	25.0806	0.43	306128.3378
	Continuing Calibration Verification	Ni (230.299 nm)	2.1095	0.08	25669.6960
	Continuing Calibration Verification	Pb (220.353 nm)	0.5143	0.36	2950.2173
	Continuing Calibration Verification	Sb (217.582 nm)	4.9865	0.24	12289.7614
	Continuing Calibration Verification	Se (196.026 nm)	0.4817	0.38	394.4478
	Continuing Calibration Verification	Sn (189.925 nm)	5.0934	0.06	15520.8404
	Continuing Calibration Verification	Sr (216.596 nm)	2.5162	0.45	50402.8854
	Continuing Calibration Verification	Ti (336.122 nm)	2.5286	0.13	339870.8821
	Continuing Calibration Verification	Tl (190.794 nm)	1.0381	0.11	1322.1542
	Continuing Calibration Verification	V (292.401 nm)	2.5289	0.07	104705.0588
	Continuing Calibration Verification	Y (360.074 nm)	0.95	0.45	469134.24
	Continuing Calibration Verification	Y_R (360.074 nm)	0.95	0.45	468873.75
	Continuing Calibration Verification	Zn (213.857 nm)	0.9909	0.51	58240.9012
2/21/2024 16:33:44	Continuing Calibration Blank	Ag (328.068 nm)	0.0001	31.38	-267.8198
	Continuing Calibration Blank	Al (237.312 nm)	0.0000 u	> 100.00	86.1946
	Continuing Calibration Blank	As (188.980 nm)	0.0015 u	> 100.00	-11.1771
	Continuing Calibration Blank	B (249.772 nm)	0.0016	23.88	125.5973
	Continuing Calibration Blank	Ba (230.424 nm)	0.0003	41.11	-1.5302
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	45.64	-216.5990
	Continuing Calibration Blank	Ca (317.933 nm)	-0.0009 u	18.57	2611.1369
	Continuing Calibration Blank	Cd (214.439 nm)	-0.0001 u	> 100.00	-20.2565
	Continuing Calibration Blank	Co (230.786 nm)	-0.0002 u	33.85	45.8323
	Continuing Calibration Blank	Cr (267.716 nm)	-0.0001 u	95.46	-75.7895
	Continuing Calibration Blank	Cu (327.395 nm)	0.0001 u	> 100.00	-30.7214
	Continuing Calibration Blank	Fe (234.350 nm)	0.0019	14.34	74.0106
	Continuing Calibration Blank	K (766.491 nm)	0.1586	27.27	-165.2354
	Continuing Calibration Blank	Mg (279.078 nm)	0.0004 u	> 100.00	-13.6224
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000	70.14	-25.6769
	Continuing Calibration Blank	Mo (202.032 nm)	0.0049	16.51	27.4245
	Continuing Calibration Blank	Na (588.995 nm)	0.1153	3.72	-14616.5224
	Continuing Calibration Blank	Ni (230.299 nm)	0.0006	72.99	83.8117
	Continuing Calibration Blank	Pb (220.353 nm)	0.0002 u	> 100.00	-14.7968
	Continuing Calibration Blank	Sb (217.582 nm)	0.0091	27.91	39.1574
	Continuing Calibration Blank	Se (196.026 nm)	0.0039	59.22	-3.4081
	Continuing Calibration Blank	Sn (189.925 nm)	0.0019	46.72	11.6697
	Continuing Calibration Blank	Sr (216.596 nm)	0.0002	60.24	-49.8374
	Continuing Calibration Blank	Ti (336.122 nm)	0.0035	29.73	324.0216
	Continuing Calibration Blank	Tl (190.794 nm)	-0.0006 u	> 100.00	-4.9877
	Continuing Calibration Blank	V (292.401 nm)	0.0000 u	> 100.00	-73.5600

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Y (360.074 nm)	1.00	0.31	491652.70
	Continuing Calibration Blank	Y_R (360.074 nm)	1.00	0.31	491312.05
	Continuing Calibration Blank	Zn (213.857 nm)	0.0000 u	> 100.00	-53.6547
2/21/2024 16:36:58	R2401217-004S	Ag (328.068 nm)	0.0511	0.35	2853.9045
	R2401217-004S	Al (237.312 nm)	1.9691	0.32	5139.1094
	R2401217-004S	As (188.980 nm)	0.0385	5.76	57.4727
	R2401217-004S	B (249.772 nm)	1.0616	0.08	36035.5493
	R2401217-004S	Ba (230.424 nm)	2.0613	0.08	100885.4062
	R2401217-004S	Be (313.107 nm)	0.0488	0.04	55546.2650
	R2401217-004S	Ca (317.933 nm)	14.0853	0.09	569648.8103
	R2401217-004S	Cd (214.439 nm)	0.0510	0.40	3247.0969
	R2401217-004S	Co (230.786 nm)	0.5112	0.16	8325.4728
	R2401217-004S	Cr (267.716 nm)	0.2008	0.03	9142.9434
	R2401217-004S	Cu (327.395 nm)	0.2509	0.24	9700.0098
	R2401217-004S	Fe (234.350 nm)	1.1554	0.07	26040.7982
	R2401217-004S	K (766.491 nm)	21.9446	0.21	23201.4041
	R2401217-004S	Mg (279.078 nm)	5.3574	0.05	17792.9590
	R2401217-004S	Mn (257.610 nm)	0.4971	0.07	168406.2520
	R2401217-004S	Mo (202.032 nm)	0.4872	0.45	4024.1869
	R2401217-004S	Na (588.995 nm)	35.1706	0.31	435761.7870
	R2401217-004S	Ni (230.299 nm)	0.5231	0.27	6422.9177
	R2401217-004S	Pb (220.353 nm)	0.5052	0.27	2897.9704
	R2401217-004S	Sb (217.582 nm)	0.4966	1.13	1239.1201
	R2401217-004S	Se (196.026 nm)	0.9886	0.68	816.5440
	R2401217-004S	Sn (189.925 nm)	4.9735	0.23	15155.3829
	R2401217-004S	Sr (216.596 nm)	2.0294	0.14	40641.4839
	R2401217-004S	Ti (336.122 nm)	0.4939	0.13	66263.6724
	R2401217-004S	Tl (190.794 nm)	2.0022	0.13	2553.8352
	R2401217-004S	V (292.401 nm)	0.4924	0.19	20326.3127
	R2401217-004S	Y (360.074 nm)	0.97	0.31	478493.78
	R2401217-004S	Y_R (360.074 nm)	0.97	0.31	478185.30
	R2401217-004S	Zn (213.857 nm)	0.5096	0.11	29925.2429
2/21/2024 16:40:12	R2401217-004SD	Ag (328.068 nm)	0.0509	0.17	2842.7762
	R2401217-004SD	Al (237.312 nm)	1.9516	0.23	5094.3048
	R2401217-004SD	As (188.980 nm)	0.0393	0.96	58.9611
	R2401217-004SD	B (249.772 nm)	1.0593	0.08	35957.2872
	R2401217-004SD	Ba (230.424 nm)	2.0535	0.25	100502.0593
	R2401217-004SD	Be (313.107 nm)	0.0486	0.15	55373.1493
	R2401217-004SD	Ca (317.933 nm)	14.0655	0.10	568851.3515
	R2401217-004SD	Cd (214.439 nm)	0.0509	0.07	3240.1743
	R2401217-004SD	Co (230.786 nm)	0.5087	0.05	8285.9924
	R2401217-004SD	Cr (267.716 nm)	0.2001	0.17	9108.2778
	R2401217-004SD	Cu (327.395 nm)	0.2505	0.15	9684.0370
	R2401217-004SD	Fe (234.350 nm)	1.0850	0.07	24455.2415
	R2401217-004SD	K (766.491 nm)	21.8725	0.04	23124.0527
	R2401217-004SD	Mg (279.078 nm)	5.3494	0.13	17766.6136
	R2401217-004SD	Mn (257.610 nm)	0.4952	0.11	167749.7463
	R2401217-004SD	Mo (202.032 nm)	0.4889	0.45	4038.2814
	R2401217-004SD	Na (588.995 nm)	35.1781	0.37	435858.6666
	R2401217-004SD	Ni (230.299 nm)	0.5205	0.32	6391.8525
	R2401217-004SD	Pb (220.353 nm)	0.5029	0.27	2884.4649
	R2401217-004SD	Sb (217.582 nm)	0.4944	0.35	1233.5572
	R2401217-004SD	Se (196.026 nm)	0.9904	0.63	818.0340
	R2401217-004SD	Sn (189.925 nm)	4.9554	0.20	15100.1952
	R2401217-004SD	Sr (216.596 nm)	2.0231	0.36	40516.0231
	R2401217-004SD	Ti (336.122 nm)	0.4929	0.13	66135.5359
	R2401217-004SD	Tl (190.794 nm)	1.9961	0.25	2546.0467

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401217-004SD	V (292.401 nm)	0.4905	0.15	20247.4758
	R2401217-004SD	Y (360.074 nm)	0.97	0.45	478799.51
	R2401217-004SD	Y_R (360.074 nm)	0.97	0.45	478465.37
	R2401217-004SD	Zn (213.857 nm)	0.5078	0.17	29819.6062
2/21/2024 16:43:26	R2401217-004A	Ag (328.068 nm)	0.0499	0.19	2781.6921
	R2401217-004A	Al (237.312 nm)	1.9140	0.37	4997.7780
	R2401217-004A	As (188.980 nm)	0.0374	5.37	55.5843
	R2401217-004A	B (249.772 nm)	1.0464	0.14	35519.8677
	R2401217-004A	Ba (230.424 nm)	2.0150	0.09	98617.7443
	R2401217-004A	Be (313.107 nm)	0.0478	0.11	54383.9603
	R2401217-004A	Ca (317.933 nm)	13.8051	0.07	558369.7554
	R2401217-004A	Cd (214.439 nm)	0.0498	0.09	3169.5246
	R2401217-004A	Co (230.786 nm)	0.4998	0.09	8140.5327
	R2401217-004A	Cr (267.716 nm)	0.1963	0.10	8936.5174
	R2401217-004A	Cu (327.395 nm)	0.2455	0.09	9491.2748
	R2401217-004A	Fe (234.350 nm)	1.0897	0.02	24561.1370
	R2401217-004A	K (766.491 nm)	21.3691	0.15	22584.1074
	R2401217-004A	Mg (279.078 nm)	5.2062	0.23	17290.5502
	R2401217-004A	Mn (257.610 nm)	0.4854	0.07	164432.1673
	R2401217-004A	Mo (202.032 nm)	0.4798	0.58	3962.6714
	R2401217-004A	Na (588.995 nm)	34.4868	0.56	426976.3577
	R2401217-004A	Ni (230.299 nm)	0.5110	0.17	6276.7647
	R2401217-004A	Pb (220.353 nm)	0.4940	0.16	2833.2708
	R2401217-004A	Sb (217.582 nm)	0.4859	0.32	1212.7286
	R2401217-004A	Se (196.026 nm)	0.9787	0.65	808.3021
	R2401217-004A	Sn (189.925 nm)	4.8943	0.08	14914.3382
	R2401217-004A	Sr (216.596 nm)	1.9749	0.41	39549.2720
	R2401217-004A	Ti (336.122 nm)	0.4825	0.08	64732.2303
	R2401217-004A	Tl (190.794 nm)	1.9571	0.13	2496.2582
	R2401217-004A	V (292.401 nm)	0.4810	0.06	19854.7602
	R2401217-004A	Y (360.074 nm)	0.97	0.37	478113.17
	R2401217-004A	Y_R (360.074 nm)	0.97	0.37	477717.49
	R2401217-004A	Zn (213.857 nm)	0.5032	0.14	29548.8524
2/21/2024 16:46:39	R2401217-004L 5X	Ag (328.068 nm)	0.0001	27.40	-269.7343
	R2401217-004L 5X	Al (237.312 nm)	0.0043	18.71	97.1622
	R2401217-004L 5X	As (188.980 nm)	0.0003 u	> 100.00	-13.2695
	R2401217-004L 5X	B (249.772 nm)	0.0174	2.76	660.3757
	R2401217-004L 5X	Ba (230.424 nm)	0.0065	1.87	303.4427
	R2401217-004L 5X	Be (313.107 nm)	0.0000	18.06	-214.9744
	R2401217-004L 5X	Ca (317.933 nm)	2.4157	1.05	99888.4851
	R2401217-004L 5X	Cd (214.439 nm)	0.0000 u	> 100.00	-16.3867
	R2401217-004L 5X	Co (230.786 nm)	-0.0002 u	> 100.00	46.5473
	R2401217-004L 5X	Cr (267.716 nm)	0.0001	21.62	-68.2061
	R2401217-004L 5X	Cu (327.395 nm)	0.0001 u	> 100.00	-30.8133
	R2401217-004L 5X	Fe (234.350 nm)	0.0249	0.51	591.1816
	R2401217-004L 5X	K (766.491 nm)	0.7261	0.90	443.4080
	R2401217-004L 5X	Mg (279.078 nm)	0.6857	1.44	2264.3006
	R2401217-004L 5X	Mn (257.610 nm)	0.0007	1.34	194.9303
	R2401217-004L 5X	Mo (202.032 nm)	0.0030	16.72	11.5433
	R2401217-004L 5X	Na (588.995 nm)	3.3034	1.08	26342.7603
	R2401217-004L 5X	Ni (230.299 nm)	0.0001 u	> 100.00	78.3615
	R2401217-004L 5X	Pb (220.353 nm)	0.0004 u	> 100.00	-13.6903
	R2401217-004L 5X	Sb (217.582 nm)	0.0060	15.02	31.5690
	R2401217-004L 5X	Se (196.026 nm)	0.0062	32.09	-1.4878
	R2401217-004L 5X	Sn (189.925 nm)	0.0025	15.45	13.6765
	R2401217-004L 5X	Sr (216.596 nm)	0.0061	4.01	69.6609
	R2401217-004L 5X	Ti (336.122 nm)	0.0011	44.37	9.3302

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401217-004L 5X	Tl (190.794 nm)	-0.0013 u	> 100.00	-5.8172
	R2401217-004L 5X	V (292.401 nm)	0.0002	41.66	-65.1958
	R2401217-004L 5X	Y (360.074 nm)	1.00	0.21	492464.58
	R2401217-004L 5X	Y_R (360.074 nm)	1.00	0.21	492057.16
	R2401217-004L 5X	Zn (213.857 nm)	0.0009	6.82	-0.6317
2/21/2024 16:49:53	R2401217-005	Ag (328.068 nm)	0.0000 u	> 100.00	-277.2199
	R2401217-005	Al (237.312 nm)	10.9166	0.27	28099.9425
	R2401217-005	As (188.980 nm)	0.0071	21.16	-0.8166
	R2401217-005	B (249.772 nm)	0.1345	0.32	4626.9366
	R2401217-005	Ba (230.424 nm)	0.0896	0.28	4374.0239
	R2401217-005	Be (313.107 nm)	0.0004	1.90	187.5247
	R2401217-005	Ca (317.933 nm)	27.7367	0.10	1119184.7045
	R2401217-005	Cd (214.439 nm)	0.0001	73.07	-11.7386
	R2401217-005	Co (230.786 nm)	0.0034	9.17	105.2510
	R2401217-005	Cr (267.716 nm)	0.0057	1.62	191.6324
	R2401217-005	Cu (327.395 nm)	0.0101	1.27	358.7050
	R2401217-005	Fe (234.350 nm)	9.4386	0.04	212510.6522
	R2401217-005	K (766.491 nm)	4.5605	0.85	4555.9493
	R2401217-005	Mg (279.078 nm)	11.7189	0.10	38938.8701
	R2401217-005	Mn (257.610 nm)	0.2933	0.11	99325.0523
	R2401217-005	Mo (202.032 nm)	0.0007	22.41	-7.2910
	R2401217-005	Na (588.995 nm)	21.2974	0.38	257524.2583
	R2401217-005	Ni (230.299 nm)	0.0019	58.77	99.6890
	R2401217-005	Pb (220.353 nm)	0.0125	7.60	56.5239
	R2401217-005	Sb (217.582 nm)	0.0016	15.34	20.8565
	R2401217-005	Se (196.026 nm)	0.0015 u	> 100.00	-5.3994
	R2401217-005	Sn (189.925 nm)	0.0023	58.04	12.8516
	R2401217-005	Sr (216.596 nm)	0.0641	0.26	1232.9859
	R2401217-005	Ti (336.122 nm)	0.0849	0.54	11273.2463
	R2401217-005	Tl (190.794 nm)	-0.0010 u	> 100.00	-5.4308
	R2401217-005	V (292.401 nm)	0.0074	1.39	230.8652
	R2401217-005	Y (360.074 nm)	0.98	0.40	481540.16
	R2401217-005	Y_R (360.074 nm)	0.98	0.41	481130.75
	R2401217-005	Zn (213.857 nm)	0.0309	0.44	1764.5221
2/21/2024 16:53:07	R2401217-006	Ag (328.068 nm)	0.0001 u	> 100.00	-271.6598
	R2401217-006	Al (237.312 nm)	0.0276	3.20	157.0700
	R2401217-006	As (188.980 nm)	0.0002 u	> 100.00	-13.5394
	R2401217-006	B (249.772 nm)	0.0546	0.35	1920.2162
	R2401217-006	Ba (230.424 nm)	0.0307	0.64	1490.4637
	R2401217-006	Be (313.107 nm)	0.0000 u	> 100.00	-222.7087
	R2401217-006	Ca (317.933 nm)	14.2378	0.06	575788.6410
	R2401217-006	Cd (214.439 nm)	0.0002	29.90	-5.7328
	R2401217-006	Co (230.786 nm)	0.0001 u	> 100.00	50.9876
	R2401217-006	Cr (267.716 nm)	0.0002	97.19	-62.3925
	R2401217-006	Cu (327.395 nm)	0.0013	16.16	14.5735
	R2401217-006	Fe (234.350 nm)	0.0559	0.44	1287.7421
	R2401217-006	K (766.491 nm)	1.7526	1.04	1544.4044
	R2401217-006	Mg (279.078 nm)	4.1260	0.11	13699.7753
	R2401217-006	Mn (257.610 nm)	0.1075	0.16	36375.9278
	R2401217-006	Mo (202.032 nm)	0.0003	60.90	-10.7068
	R2401217-006	Na (588.995 nm)	24.7065	0.28	301323.1375
	R2401217-006	Ni (230.299 nm)	0.0002 u	> 100.00	79.4316
	R2401217-006	Pb (220.353 nm)	0.0006	> 100.00	-12.5612
	R2401217-006	Sb (217.582 nm)	0.0037	51.40	26.0348
	R2401217-006	Se (196.026 nm)	0.0000 u	> 100.00	-6.6540
	R2401217-006	Sn (189.925 nm)	0.0014	29.45	10.1138
	R2401217-006	Sr (216.596 nm)	0.0347	0.51	641.7867

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401217-006	Ti (336.122 nm)	0.0007	49.23	-52.0209
	R2401217-006	Tl (190.794 nm)	-0.0015 u	39.01	-6.1330
	R2401217-006	V (292.401 nm)	0.0002	75.87	-64.3791
	R2401217-006	Y (360.074 nm)	0.98	0.40	483455.71
	R2401217-006	Y_R (360.074 nm)	0.98	0.40	483028.97
	R2401217-006	Zn (213.857 nm)	0.0039	0.82	177.9660
2/21/2024 16:56:21	R2401217-007	Ag (328.068 nm)	-0.0001 u	> 100.00	-278.7639
	R2401217-007	Al (237.312 nm)	2.2895	0.22	5961.3878
	R2401217-007	As (188.980 nm)	0.0011	> 100.00	-11.8971
	R2401217-007	B (249.772 nm)	0.0261	0.80	955.0633
	R2401217-007	Ba (230.424 nm)	0.0883	0.21	4306.5624
	R2401217-007	Be (313.107 nm)	0.0001	4.74	-139.2584
	R2401217-007	Ca (317.933 nm)	38.9401	0.10	1570175.3074
	R2401217-007	Cd (214.439 nm)	0.0003	19.34	0.5650
	R2401217-007	Co (230.786 nm)	0.0014	14.60	72.6793
	R2401217-007	Cr (267.716 nm)	0.0019	2.68	15.8965
	R2401217-007	Cu (327.395 nm)	0.0030	7.91	82.2079
	R2401217-007	Fe (234.350 nm)	2.5201	0.07	56762.8981
	R2401217-007	K (766.491 nm)	2.3829	2.37	2220.4013
	R2401217-007	Mg (279.078 nm)	12.4088	0.22	41232.1427
	R2401217-007	Mn (257.610 nm)	1.3393	0.07	453766.6270
	R2401217-007	Mo (202.032 nm)	-0.0002 u	98.66	-15.1476
	R2401217-007	Na (588.995 nm)	46.4431	0.28	580587.2164
	R2401217-007	Ni (230.299 nm)	0.0014	18.08	94.6866
	R2401217-007	Pb (220.353 nm)	0.0035	18.01	4.3237
	R2401217-007	Sb (217.582 nm)	0.0013 u	> 100.00	20.1643
	R2401217-007	Se (196.026 nm)	0.0017	40.51	-5.1937
	R2401217-007	Sn (189.925 nm)	0.0005	> 100.00	7.5411
	R2401217-007	Sr (216.596 nm)	0.0849	0.30	1648.7138
	R2401217-007	Ti (336.122 nm)	0.0468	5.34	6149.9939
	R2401217-007	Tl (190.794 nm)	-0.0016 u	12.53	-6.2075
	R2401217-007	V (292.401 nm)	0.0037	7.56	77.5135
	R2401217-007	Y (360.074 nm)	0.96	0.44	474487.92
	R2401217-007	Y_R (360.074 nm)	0.96	0.44	474029.80
	R2401217-007	Zn (213.857 nm)	0.0135	0.50	740.9346
2/21/2024 16:59:35	R2401217-008	Ag (328.068 nm)	0.0000	> 100.00	-273.2666
	R2401217-008	Al (237.312 nm)	0.0005 u	> 100.00	87.3274
	R2401217-008	As (188.980 nm)	0.0003 u	> 100.00	-13.3085
	R2401217-008	B (249.772 nm)	0.0000 u	> 100.00	72.0060
	R2401217-008	Ba (230.424 nm)	0.0000 u	> 100.00	-12.5769
	R2401217-008	Be (313.107 nm)	0.0000	41.02	-216.7403
	R2401217-008	Ca (317.933 nm)	0.0146	0.86	3234.7737
	R2401217-008	Cd (214.439 nm)	0.0000	14.82	-14.5406
	R2401217-008	Co (230.786 nm)	0.0000 u	> 100.00	49.0019
	R2401217-008	Cr (267.716 nm)	0.0002	31.08	-60.3341
	R2401217-008	Cu (327.395 nm)	0.0007	23.69	-7.9266
	R2401217-008	Fe (234.350 nm)	0.0077	5.33	204.7687
	R2401217-008	K (766.491 nm)	0.0880	45.17	-241.0229
	R2401217-008	Mg (279.078 nm)	0.0020	69.76	-8.3596
	R2401217-008	Mn (257.610 nm)	0.0002	7.21	33.6954
	R2401217-008	Mo (202.032 nm)	0.0001 u	> 100.00	-12.8696
	R2401217-008	Na (588.995 nm)	0.0865	4.75	-14987.6341
	R2401217-008	Ni (230.299 nm)	-0.0005 u	16.94	71.0817
	R2401217-008	Pb (220.353 nm)	0.0003 u	> 100.00	-14.3323
	R2401217-008	Sb (217.582 nm)	0.0042	47.06	27.2454
	R2401217-008	Se (196.026 nm)	0.0000 u	> 100.00	-6.6304
	R2401217-008	Sn (189.925 nm)	0.0008	19.95	8.4857

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401217-008	Sr (216.596 nm)	0.0003	> 100.00	-47.6106
	R2401217-008	Ti (336.122 nm)	-0.0002 u	> 100.00	-164.7330
	R2401217-008	Tl (190.794 nm)	-0.0027 u	51.63	-7.5663
	R2401217-008	V (292.401 nm)	0.0001	12.28	-69.5752
	R2401217-008	Y (360.074 nm)	1.00	0.21	494741.82
	R2401217-008	Y_R (360.074 nm)	1.00	0.21	494181.08
	R2401217-008	Zn (213.857 nm)	0.0033	3.15	141.7245
2/21/2024 17:02:49	R2401217-009	Ag (328.068 nm)	0.0000 u	> 100.00	-274.9781
	R2401217-009	Al (237.312 nm)	0.0066	41.39	103.1475
	R2401217-009	As (188.980 nm)	-0.0008 u	79.17	-15.3877
	R2401217-009	B (249.772 nm)	0.0137	1.26	535.1952
	R2401217-009	Ba (230.424 nm)	0.0832	0.16	4057.5855
	R2401217-009	Be (313.107 nm)	0.0000 u	> 100.00	-232.4535
	R2401217-009	Ca (317.933 nm)	30.8693	0.02	1245287.4379
	R2401217-009	Cd (214.439 nm)	0.0001	0.79	-8.2865
	R2401217-009	Co (230.786 nm)	0.0002 u	> 100.00	53.2530
	R2401217-009	Cr (267.716 nm)	0.0001	88.67	-66.5672
	R2401217-009	Cu (327.395 nm)	0.0006	40.17	-11.6260
	R2401217-009	Fe (234.350 nm)	0.0155	1.61	380.4756
	R2401217-009	K (766.491 nm)	3.1204	0.96	3011.3678
	R2401217-009	Mg (279.078 nm)	9.3459	0.17	31050.9246
	R2401217-009	Mn (257.610 nm)	0.1432	0.08	48486.6008
	R2401217-009	Mo (202.032 nm)	0.0000 u	> 100.00	-13.6636
	R2401217-009	Na (588.995 nm)	87.0735 o	0.39	1102593.9875
	R2401217-009	Ni (230.299 nm)	-0.0010 u	66.55	65.0963
	R2401217-009	Pb (220.353 nm)	0.0005 u	> 100.00	-12.7015
	R2401217-009	Sb (217.582 nm)	0.0037	36.29	25.9801
	R2401217-009	Se (196.026 nm)	0.0011 u	> 100.00	-5.7445
	R2401217-009	Sn (189.925 nm)	0.0002 u	> 100.00	6.6248
	R2401217-009	Sr (216.596 nm)	0.0792	0.15	1534.5083
	R2401217-009	Ti (336.122 nm)	0.0001 u	> 100.00	-125.5135
	R2401217-009	Tl (190.794 nm)	-0.0015 u	> 100.00	-6.0765
	R2401217-009	V (292.401 nm)	0.0000 u	> 100.00	-73.5045
	R2401217-009	Y (360.074 nm)	0.95	0.41	468901.38
	R2401217-009	Y_R (360.074 nm)	0.95	0.41	468451.07
	R2401217-009	Zn (213.857 nm)	0.0012	7.79	18.9219
2/21/2024 17:06:04	R2401217-010	Ag (328.068 nm)	-0.0002 u	82.97	-285.6045
	R2401217-010	Al (237.312 nm)	0.1232	1.85	402.3367
	R2401217-010	As (188.980 nm)	0.0007 u	> 100.00	-12.5830
	R2401217-010	B (249.772 nm)	0.0090	1.23	375.8632
	R2401217-010	Ba (230.424 nm)	0.0797	0.15	3888.1458
	R2401217-010	Be (313.107 nm)	0.0000	26.27	-205.5128
	R2401217-010	Ca (317.933 nm)	29.2977	0.05	1182022.2706
	R2401217-010	Cd (214.439 nm)	0.0002	6.19	-5.7026
	R2401217-010	Co (230.786 nm)	0.0052	5.30	133.2460
	R2401217-010	Cr (267.716 nm)	-0.0023 u	5.03	-175.4589
	R2401217-010	Cu (327.395 nm)	0.0004	73.43	-18.8919
	R2401217-010	Fe (234.350 nm)	0.2584	0.11	5848.4464
	R2401217-010	K (766.491 nm)	1.6979	1.68	1485.6529
	R2401217-010	Mg (279.078 nm)	8.9125	0.08	29610.4166
	R2401217-010	Mn (257.610 nm)	10.4285 o	0.10	3533386.3245
	R2401217-010	Mo (202.032 nm)	0.0000 u	> 100.00	-13.3981
	R2401217-010	Na (588.995 nm)	49.0888	0.30	614578.6049
	R2401217-010	Ni (230.299 nm)	0.0059	7.99	148.1291
	R2401217-010	Pb (220.353 nm)	0.0019	35.47	-4.8316
	R2401217-010	Sb (217.582 nm)	0.0013 u	> 100.00	20.0313
	R2401217-010	Se (196.026 nm)	0.0027 u	> 100.00	-4.4071

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401217-010	Sn (189.925 nm)	0.0011	98.63	9.4352
	R2401217-010	Sr (216.596 nm)	0.0889	0.05	1729.3821
	R2401217-010	Ti (336.122 nm)	0.0027	17.00	216.1831
	R2401217-010	Tl (190.794 nm)	-0.0016 u	78.05	-6.2146
	R2401217-010	V (292.401 nm)	0.0003	68.11	-60.8787
	R2401217-010	Y (360.074 nm)	0.96	0.28	474420.13
	R2401217-010	Y_R (360.074 nm)	0.96	0.28	473952.52
	R2401217-010	Zn (213.857 nm)	0.0139	0.89	766.3949
2/21/2024 17:09:18	Continuing Calibration Verification	Ag (328.068 nm)	0.5164	0.06	31363.4552
	Continuing Calibration Verification	Al (237.312 nm)	10.0522	0.28	25881.7366
	Continuing Calibration Verification	As (188.980 nm)	0.9821	0.32	1808.6098
	Continuing Calibration Verification	B (249.772 nm)	2.4489	0.09	83033.2311
	Continuing Calibration Verification	Ba (230.424 nm)	10.3459	0.25	506408.2593
	Continuing Calibration Verification	Be (313.107 nm)	0.2454	0.10	280373.1296
	Continuing Calibration Verification	Ca (317.933 nm)	25.9262	0.10	1046301.9117
	Continuing Calibration Verification	Cd (214.439 nm)	0.5123	0.05	32775.3618
	Continuing Calibration Verification	Co (230.786 nm)	2.5617	0.21	41522.3366
	Continuing Calibration Verification	Cr (267.716 nm)	0.5151	0.04	23561.5473
	Continuing Calibration Verification	Cu (327.395 nm)	1.2504	0.09	48482.9805
	Continuing Calibration Verification	Fe (234.350 nm)	5.0661	0.07	114076.3903
	Continuing Calibration Verification	K (766.491 nm)	24.2656	0.20	25690.7882
	Continuing Calibration Verification	Mg (279.078 nm)	25.3071	0.07	84106.4969
	Continuing Calibration Verification	Mn (257.610 nm)	0.7534	0.08	255225.3447
	Continuing Calibration Verification	Mo (202.032 nm)	2.5644	0.50	21239.0622
	Continuing Calibration Verification	Na (588.995 nm)	25.0511	0.38	305749.8390
	Continuing Calibration Verification	Ni (230.299 nm)	2.1073	0.05	25642.4664
	Continuing Calibration Verification	Pb (220.353 nm)	0.5133	0.10	2944.3012
	Continuing Calibration Verification	Sb (217.582 nm)	4.9918	0.24	12302.8007
	Continuing Calibration Verification	Se (196.026 nm)	0.4881	1.56	399.8228
	Continuing Calibration Verification	Sn (189.925 nm)	5.1074	0.06	15563.2065
	Continuing Calibration Verification	Sr (216.596 nm)	2.5212	0.34	50503.3679
	Continuing Calibration Verification	Ti (336.122 nm)	2.5289	0.08	339916.1567
	Continuing Calibration Verification	Tl (190.794 nm)	1.0366	0.20	1320.1524
	Continuing Calibration Verification	V (292.401 nm)	2.5281	0.09	104674.4535
	Continuing Calibration Verification	Y (360.074 nm)	0.95	0.44	467079.18
	Continuing Calibration Verification	Y_R (360.074 nm)	0.95	0.44	466594.97
	Continuing Calibration Verification	Zn (213.857 nm)	0.9891	0.36	58136.9927
2/21/2024 17:12:32	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u	> 100.00	-274.0612
	Continuing Calibration Blank	Al (237.312 nm)	0.0017 u	97.51	90.5800
	Continuing Calibration Blank	As (188.980 nm)	0.0028	17.38	-8.7726
	Continuing Calibration Blank	B (249.772 nm)	0.0010	24.82	103.8693
	Continuing Calibration Blank	Ba (230.424 nm)	0.0004	8.43	6.0925
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	63.45	-219.4466
	Continuing Calibration Blank	Ca (317.933 nm)	-0.0011 u	12.15	2600.8616
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	-16.0304
	Continuing Calibration Blank	Co (230.786 nm)	-0.0001 u	> 100.00	48.5454
	Continuing Calibration Blank	Cr (267.716 nm)	-0.0002 u	34.46	-78.6360
	Continuing Calibration Blank	Cu (327.395 nm)	-0.0001 u	> 100.00	-37.7322
	Continuing Calibration Blank	Fe (234.350 nm)	0.0020	17.74	75.1127
	Continuing Calibration Blank	K (766.491 nm)	0.0888	13.44	-240.0937
	Continuing Calibration Blank	Mg (279.078 nm)	-0.0011 u	65.21	-18.8411
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000	46.20	-20.9816
	Continuing Calibration Blank	Mo (202.032 nm)	0.0053	9.96	30.0563
	Continuing Calibration Blank	Na (588.995 nm)	0.0599	7.87	-15328.6473
	Continuing Calibration Blank	Ni (230.299 nm)	0.0002	47.25	79.7912
	Continuing Calibration Blank	Pb (220.353 nm)	0.0003	44.06	-14.0569
	Continuing Calibration Blank	Sb (217.582 nm)	0.0094	9.64	39.9243

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Se (196.026 nm)	0.0026 u	> 100.00	-4.4962
	Continuing Calibration Blank	Sn (189.925 nm)	0.0014	42.13	10.2129
	Continuing Calibration Blank	Sr (216.596 nm)	0.0002 u	> 100.00	-49.0443
	Continuing Calibration Blank	Ti (336.122 nm)	0.0034	30.82	315.7744
	Continuing Calibration Blank	Tl (190.794 nm)	-0.0006 u	> 100.00	-4.9306
	Continuing Calibration Blank	V (292.401 nm)	0.0001 u	> 100.00	-69.8310
	Continuing Calibration Blank	Y (360.074 nm)	0.99	0.20	489808.51
	Continuing Calibration Blank	Y_R (360.074 nm)	0.99	0.20	489237.79
	Continuing Calibration Blank	Zn (213.857 nm)	0.0000 u	> 100.00	-54.4229
2/21/2024 17:15:46	R2401217-011	Ag (328.068 nm)	0.0000 u	> 100.00	-275.1626
	R2401217-011	Al (237.312 nm)	0.9875	0.79	2620.1419
	R2401217-011	As (188.980 nm)	0.0015 u	> 100.00	-11.0368
	R2401217-011	B (249.772 nm)	0.3023	0.11	10313.0370
	R2401217-011	Ba (230.424 nm)	0.0775	0.20	3778.2664
	R2401217-011	Be (313.107 nm)	0.0000	26.68	-180.4604
	R2401217-011	Ca (317.933 nm)	32.2710	0.07	1301709.3457
	R2401217-011	Cd (214.439 nm)	0.0000 u	> 100.00	-16.4988
	R2401217-011	Co (230.786 nm)	0.0005	28.67	57.8575
	R2401217-011	Cr (267.716 nm)	0.0016	4.73	-0.0720
	R2401217-011	Cu (327.395 nm)	0.0022	7.49	52.2392
	R2401217-011	Fe (234.350 nm)	1.1435	0.20	25771.5940
	R2401217-011	K (766.491 nm)	3.1674	2.25	3061.8242
	R2401217-011	Mg (279.078 nm)	8.0497	0.16	26742.4343
	R2401217-011	Mn (257.610 nm)	0.0437	0.22	14771.6309
	R2401217-011	Mo (202.032 nm)	0.0004	> 100.00	-10.1823
	R2401217-011	Na (588.995 nm)	49.4213	0.38	618850.5221
	R2401217-011	Ni (230.299 nm)	0.0000 u	> 100.00	77.0189
	R2401217-011	Pb (220.353 nm)	0.0009 u	> 100.00	-10.7124
	R2401217-011	Sb (217.582 nm)	0.0022	85.45	22.2598
	R2401217-011	Se (196.026 nm)	0.0026	66.43	-4.4997
	R2401217-011	Sn (189.925 nm)	0.0006	37.08	7.9180
	R2401217-011	Sr (216.596 nm)	0.1472	0.17	2898.4725
	R2401217-011	Ti (336.122 nm)	0.0254	3.97	3268.7992
	R2401217-011	Tl (190.794 nm)	-0.0035 u	53.08	-8.6846
	R2401217-011	V (292.401 nm)	0.0017	4.70	-2.1549
	R2401217-011	Y (360.074 nm)	0.96	0.38	474354.57
	R2401217-011	Y_R (360.074 nm)	0.96	0.38	473863.05
	R2401217-011	Zn (213.857 nm)	0.0077	0.76	400.2936
2/21/2024 17:19:00	R2401217-012	Ag (328.068 nm)	-0.0001 u	> 100.00	-277.8965
	R2401217-012	Al (237.312 nm)	0.0323	7.37	169.1302
	R2401217-012	As (188.980 nm)	0.0000 u	> 100.00	-13.8441
	R2401217-012	B (249.772 nm)	0.0144	1.02	560.2851
	R2401217-012	Ba (230.424 nm)	0.0375	0.34	1820.7713
	R2401217-012	Be (313.107 nm)	0.0000 u	> 100.00	-229.5510
	R2401217-012	Ca (317.933 nm)	25.5658	0.03	1031793.5811
	R2401217-012	Cd (214.439 nm)	0.0001	60.94	-11.9945
	R2401217-012	Co (230.786 nm)	0.0000 u	> 100.00	48.9096
	R2401217-012	Cr (267.716 nm)	0.0004	9.69	-50.9286
	R2401217-012	Cu (327.395 nm)	0.0006	12.99	-11.4173
	R2401217-012	Fe (234.350 nm)	0.0431	1.11	999.8828
	R2401217-012	K (766.491 nm)	1.0162	3.39	754.5457
	R2401217-012	Mg (279.078 nm)	7.7968	0.06	25901.8232
	R2401217-012	Mn (257.610 nm)	0.0035	0.50	1160.9482
	R2401217-012	Mo (202.032 nm)	0.0004	97.79	-10.5728
	R2401217-012	Na (588.995 nm)	20.2933	0.31	244623.7913
	R2401217-012	Ni (230.299 nm)	-0.0008 u	46.74	67.3710
	R2401217-012	Pb (220.353 nm)	0.0000 u	> 100.00	-16.1134

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401217-012	Sb (217.582 nm)	0.0030	39.85	24.2185
	R2401217-012	Se (196.026 nm)	-0.0006 u	> 100.00	-7.1681
	R2401217-012	Sn (189.925 nm)	0.0009	24.71	8.5485
	R2401217-012	Sr (216.596 nm)	0.0516	0.73	982.5381
	R2401217-012	Ti (336.122 nm)	0.0011	25.10	3.5539
	R2401217-012	Tl (190.794 nm)	-0.0021 u	10.69	-6.8638
	R2401217-012	V (292.401 nm)	0.0002 u	> 100.00	-66.4615
	R2401217-012	Y (360.074 nm)	0.97	0.26	479607.50
	R2401217-012	Y_R (360.074 nm)	0.97	0.27	479135.83
	R2401217-012	Zn (213.857 nm)	0.0048	1.28	228.4696
2/21/2024 17:22:13	R2401217-013	Ag (328.068 nm)	-0.0002 u	59.60	-289.4848
	R2401217-013	Al (237.312 nm)	2.5332	1.06	6586.8788
	R2401217-013	As (188.980 nm)	0.0019	> 100.00	-10.3502
	R2401217-013	B (249.772 nm)	0.0299	0.82	1084.8386
	R2401217-013	Ba (230.424 nm)	0.0652	0.51	3175.9111
	R2401217-013	Be (313.107 nm)	0.0001	6.36	-130.7857
	R2401217-013	Ca (317.933 nm)	24.2721	0.08	979716.3632
	R2401217-013	Cd (214.439 nm)	0.0002	40.09	-7.0235
	R2401217-013	Co (230.786 nm)	0.0044	3.52	120.8651
	R2401217-013	Cr (267.716 nm)	0.0020	3.88	22.6213
	R2401217-013	Cu (327.395 nm)	0.0045	4.21	139.1373
	R2401217-013	Fe (234.350 nm)	3.5081	0.11	79004.0325
	R2401217-013	K (766.491 nm)	1.8632	2.82	1663.0068
	R2401217-013	Mg (279.078 nm)	3.3653	0.11	11171.1389
	R2401217-013	Mn (257.610 nm)	2.3661 o	0.06	801661.5843
	R2401217-013	Mo (202.032 nm)	0.0002	70.78	-11.5566
	R2401217-013	Na (588.995 nm)	2.5833	0.31	17091.3992
	R2401217-013	Ni (230.299 nm)	0.0026	9.62	108.6217
	R2401217-013	Pb (220.353 nm)	0.0020	4.22	-4.5841
	R2401217-013	Sb (217.582 nm)	0.0019 u	> 100.00	21.5388
	R2401217-013	Se (196.026 nm)	0.0024 u	> 100.00	-4.6103
	R2401217-013	Sn (189.925 nm)	0.0009	48.48	8.6675
	R2401217-013	Sr (216.596 nm)	0.0798	0.65	1547.5106
	R2401217-013	Ti (336.122 nm)	0.0654	4.25	8656.8680
	R2401217-013	Tl (190.794 nm)	-0.0014 u	91.83	-6.0205
	R2401217-013	V (292.401 nm)	0.0038	5.30	85.1313
	R2401217-013	Y (360.074 nm)	0.99	0.46	486280.08
	R2401217-013	Y_R (360.074 nm)	0.99	0.47	485873.95
	R2401217-013	Zn (213.857 nm)	0.0156	0.29	864.1435
2/21/2024 17:25:27	R2401217-014	Ag (328.068 nm)	-0.0001 u	47.76	-282.7812
	R2401217-014	Al (237.312 nm)	0.0358	1.44	177.9002
	R2401217-014	As (188.980 nm)	-0.0005 u	> 100.00	-14.7931
	R2401217-014	B (249.772 nm)	0.0065	2.92	289.8683
	R2401217-014	Ba (230.424 nm)	0.0184	0.24	886.7507
	R2401217-014	Be (313.107 nm)	0.0000	20.66	-217.0798
	R2401217-014	Ca (317.933 nm)	12.5958	0.02	509688.0403
	R2401217-014	Cd (214.439 nm)	0.0001	63.17	-11.2919
	R2401217-014	Co (230.786 nm)	-0.0001 u	> 100.00	47.9338
	R2401217-014	Cr (267.716 nm)	0.0008	13.98	-35.9681
	R2401217-014	Cu (327.395 nm)	0.0000 u	> 100.00	-35.6857
	R2401217-014	Fe (234.350 nm)	0.0897	0.46	2050.6058
	R2401217-014	K (766.491 nm)	0.5449	5.54	249.0431
	R2401217-014	Mg (279.078 nm)	5.5068	0.19	18289.8034
	R2401217-014	Mn (257.610 nm)	0.0015	0.90	488.5371
	R2401217-014	Mo (202.032 nm)	-0.0002 u	> 100.00	-15.1676
	R2401217-014	Na (588.995 nm)	5.5120	0.19	54717.6653
	R2401217-014	Ni (230.299 nm)	-0.0009 u	33.98	66.6606

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401217-014	Pb (220.353 nm)	-0.0005 u	> 100.00	-18.7705
	R2401217-014	Sb (217.582 nm)	0.0037	32.25	25.8642
	R2401217-014	Se (196.026 nm)	0.0002 u	> 100.00	-6.4796
	R2401217-014	Sn (189.925 nm)	0.0007	62.46	8.0830
	R2401217-014	Sr (216.596 nm)	0.0260	1.12	467.6139
	R2401217-014	Ti (336.122 nm)	0.0003 u	89.31	-104.2373
	R2401217-014	Tl (190.794 nm)	-0.0020 u	45.36	-6.6808
	R2401217-014	V (292.401 nm)	0.0003	29.00	-63.3528
	R2401217-014	Y (360.074 nm)	0.99	0.46	485333.66
	R2401217-014	Y_R (360.074 nm)	0.98	0.46	484970.85
	R2401217-014	Zn (213.857 nm)	0.0072	0.91	369.1754
2/21/2024 17:28:41	R2401217-015	Ag (328.068 nm)	0.0000 u	> 100.00	-274.3572
	R2401217-015	Al (237.312 nm)	0.0324	4.69	169.3229
	R2401217-015	As (188.980 nm)	-0.0019 u	> 100.00	-17.3434
	R2401217-015	B (249.772 nm)	0.0064	5.72	288.2118
	R2401217-015	Ba (230.424 nm)	0.0184	1.12	884.4870
	R2401217-015	Be (313.107 nm)	0.0000	57.66	-220.7518
	R2401217-015	Ca (317.933 nm)	12.6097	0.06	510248.9913
	R2401217-015	Cd (214.439 nm)	0.0001	84.60	-9.7579
	R2401217-015	Co (230.786 nm)	-0.0004 u	19.61	43.5390
	R2401217-015	Cr (267.716 nm)	0.0009	16.12	-30.3209
	R2401217-015	Cu (327.395 nm)	0.0001 u	> 100.00	-29.6778
	R2401217-015	Fe (234.350 nm)	0.1035	0.33	2361.0023
	R2401217-015	K (766.491 nm)	0.5508	3.86	255.3810
	R2401217-015	Mg (279.078 nm)	5.5199	0.02	18333.1341
	R2401217-015	Mn (257.610 nm)	0.0016	1.87	509.9048
	R2401217-015	Mo (202.032 nm)	0.0000 u	> 100.00	-13.1749
	R2401217-015	Na (588.995 nm)	5.5234	0.36	54864.3004
	R2401217-015	Ni (230.299 nm)	-0.0010 u	50.96	65.0078
	R2401217-015	Pb (220.353 nm)	0.0008	36.66	-11.0246
	R2401217-015	Sb (217.582 nm)	0.0016	70.05	20.7489
	R2401217-015	Se (196.026 nm)	-0.0006 u	> 100.00	-7.1221
	R2401217-015	Sn (189.925 nm)	0.0009	64.26	8.8253
	R2401217-015	Sr (216.596 nm)	0.0264	0.42	476.2114
	R2401217-015	Ti (336.122 nm)	0.0001 u	> 100.00	-122.7189
	R2401217-015	Tl (190.794 nm)	-0.0019 u	25.07	-6.6128
	R2401217-015	V (292.401 nm)	0.0001	26.98	-70.4003
	R2401217-015	Y (360.074 nm)	0.98	0.29	484418.44
	R2401217-015	Y_R (360.074 nm)	0.98	0.29	484009.50
	R2401217-015	Zn (213.857 nm)	0.0039	2.45	176.0462
2/21/2024 17:31:55	R2401217-016	Ag (328.068 nm)	-0.0001 u	> 100.00	-280.3722
	R2401217-016	Al (237.312 nm)	0.0200	9.21	137.4797
	R2401217-016	As (188.980 nm)	-0.0004 u	> 100.00	-14.6883
	R2401217-016	B (249.772 nm)	0.0082	2.50	348.6242
	R2401217-016	Ba (230.424 nm)	0.0342	0.24	1657.9859
	R2401217-016	Be (313.107 nm)	0.0000	72.94	-210.5161
	R2401217-016	Ca (317.933 nm)	9.5408	0.07	386710.8760
	R2401217-016	Cd (214.439 nm)	0.0001	88.35	-12.9447
	R2401217-016	Co (230.786 nm)	0.0001	13.76	50.6511
	R2401217-016	Cr (267.716 nm)	0.0004	24.04	-52.9436
	R2401217-016	Cu (327.395 nm)	0.0003 u	> 100.00	-21.2268
	R2401217-016	Fe (234.350 nm)	0.0248	1.07	588.0754
	R2401217-016	K (766.491 nm)	0.7758	4.17	496.6572
	R2401217-016	Mg (279.078 nm)	3.0166	0.13	10012.2345
	R2401217-016	Mn (257.610 nm)	0.0161	0.24	5419.6760
	R2401217-016	Mo (202.032 nm)	-0.0003 u	99.85	-15.8586
	R2401217-016	Na (588.995 nm)	10.6352	0.45	120539.5316

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401217-016	Ni (230.299 nm)	-0.0006 u	58.75	69.2970
	R2401217-016	Pb (220.353 nm)	-0.0004 u	83.22	-18.4031
	R2401217-016	Sb (217.582 nm)	0.0028	31.58	23.7959
	R2401217-016	Se (196.026 nm)	0.0011 u	> 100.00	-5.6835
	R2401217-016	Sn (189.925 nm)	0.0003	37.30	6.9153
	R2401217-016	Sr (216.596 nm)	0.0234	0.58	415.8042
	R2401217-016	Ti (336.122 nm)	0.0003 u	> 100.00	-106.0839
	R2401217-016	Tl (190.794 nm)	-0.0021 u	48.44	-6.8502
	R2401217-016	V (292.401 nm)	0.0001 u	95.45	-69.5644
	R2401217-016	Y (360.074 nm)	0.98	0.40	484823.24
	R2401217-016	Y_R (360.074 nm)	0.98	0.40	484472.61
	R2401217-016	Zn (213.857 nm)	0.0097	0.69	516.8502
2/21/2024 17:35:09	R2401217-017	Ag (328.068 nm)	0.0000 u	> 100.00	-272.9028
	R2401217-017	Al (237.312 nm)	-0.0006 u	> 100.00	84.5788
	R2401217-017	As (188.980 nm)	-0.0017 u	> 100.00	-17.1392
	R2401217-017	B (249.772 nm)	0.0248	0.44	912.1133
	R2401217-017	Ba (230.424 nm)	0.0457	0.26	2221.0249
	R2401217-017	Be (313.107 nm)	0.0000	22.47	-209.1366
	R2401217-017	Ca (317.933 nm)	24.9793	0.08	1008186.4154
	R2401217-017	Cd (214.439 nm)	0.0003	6.17	1.2014
	R2401217-017	Co (230.786 nm)	0.0035	4.87	106.1352
	R2401217-017	Cr (267.716 nm)	-0.0010 u	5.40	-115.8322
	R2401217-017	Cu (327.395 nm)	0.0044	2.02	136.5208
	R2401217-017	Fe (234.350 nm)	0.0126	1.80	314.0969
	R2401217-017	K (766.491 nm)	1.0581	3.64	799.4870
	R2401217-017	Mg (279.078 nm)	3.1537	0.09	10467.9868
	R2401217-017	Mn (257.610 nm)	2.3278 o	0.05	788666.4345
	R2401217-017	Mo (202.032 nm)	0.0002 u	> 100.00	-11.5798
	R2401217-017	Na (588.995 nm)	2.9215	0.37	21435.7583
	R2401217-017	Ni (230.299 nm)	0.0014	21.98	93.6890
	R2401217-017	Pb (220.353 nm)	0.0011	28.70	-9.2404
	R2401217-017	Sb (217.582 nm)	0.0022	38.35	22.3294
	R2401217-017	Se (196.026 nm)	-0.0015 u	88.01	-7.8439
	R2401217-017	Sn (189.925 nm)	0.0003	53.44	6.8831
	R2401217-017	Sr (216.596 nm)	0.0802	0.26	1554.7694
	R2401217-017	Ti (336.122 nm)	-0.0003 u	46.63	-176.5129
	R2401217-017	Tl (190.794 nm)	-0.0008 u	> 100.00	-5.2233
	R2401217-017	V (292.401 nm)	0.0001	81.26	-68.6418
	R2401217-017	Y (360.074 nm)	0.99	0.50	485903.62
	R2401217-017	Y_R (360.074 nm)	0.99	0.50	485596.47
	R2401217-017	Zn (213.857 nm)	0.0095	0.88	503.3741
2/21/2024 17:38:23	R2401218-001 20X	Ag (328.068 nm)	-0.0001 u	> 100.00	-280.0911
	R2401218-001 20X	Al (237.312 nm)	0.0001 u	> 100.00	86.4703
	R2401218-001 20X	As (188.980 nm)	-0.0014 u	44.45	-16.5076
	R2401218-001 20X	B (249.772 nm)	0.0296	0.76	1072.2415
	R2401218-001 20X	Ba (230.424 nm)	0.0086	1.13	405.2510
	R2401218-001 20X	Be (313.107 nm)	0.0000 u	> 100.00	-227.4448
	R2401218-001 20X	Ca (317.933 nm)	7.2612	0.12	294943.9298
	R2401218-001 20X	Cd (214.439 nm)	0.0000 u	> 100.00	-16.9128
	R2401218-001 20X	Co (230.786 nm)	0.0002 u	> 100.00	52.9062
	R2401218-001 20X	Cr (267.716 nm)	-0.0003 u	23.93	-84.0229
	R2401218-001 20X	Cu (327.395 nm)	0.0010	26.89	5.1066
	R2401218-001 20X	Fe (234.350 nm)	0.0861	0.21	1969.3709
	R2401218-001 20X	K (766.491 nm)	1.2029	1.25	954.7576
	R2401218-001 20X	Mg (279.078 nm)	0.9713	0.03	3213.6987
	R2401218-001 20X	Mn (257.610 nm)	0.6794	0.14	230161.3554
	R2401218-001 20X	Mo (202.032 nm)	-0.0005 u	90.95	-17.3878

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401218-001 20X	Na (588.995 nm)	7.1382	0.37	75610.6436
	R2401218-001 20X	Ni (230.299 nm)	0.0014	14.14	94.4640
	R2401218-001 20X	Pb (220.353 nm)	0.0007	61.46	-11.9384
	R2401218-001 20X	Sb (217.582 nm)	0.0008 u	> 100.00	18.8373
	R2401218-001 20X	Se (196.026 nm)	-0.0002 u	> 100.00	-6.8322
	R2401218-001 20X	Sn (189.925 nm)	0.0007 u	> 100.00	7.9272
	R2401218-001 20X	Sr (216.596 nm)	0.0176	0.34	299.4690
	R2401218-001 20X	Ti (336.122 nm)	-0.0001 u	> 100.00	-151.8228
	R2401218-001 20X	Tl (190.794 nm)	-0.0014 u	90.88	-5.9278
	R2401218-001 20X	V (292.401 nm)	0.0002	53.59	-67.8163
	R2401218-001 20X	Y (360.074 nm)	0.98	0.38	484973.52
	R2401218-001 20X	Y_R (360.074 nm)	0.98	0.38	484650.68
	R2401218-001 20X	Zn (213.857 nm)	0.0011	3.03	8.6587
2/21/2024 17:41:37	R2401218-002 100X	Ag (328.068 nm)	0.0001 u	> 100.00	-271.6566
	R2401218-002 100X	Al (237.312 nm)	0.0045	32.16	97.7394
	R2401218-002 100X	As (188.980 nm)	-0.0017 u	> 100.00	-17.0268
	R2401218-002 100X	B (249.772 nm)	0.0439	0.47	1557.4489
	R2401218-002 100X	Ba (230.424 nm)	0.0025	3.48	107.2074
	R2401218-002 100X	Be (313.107 nm)	0.0000	> 100.00	-224.2377
	R2401218-002 100X	Ca (317.933 nm)	1.6342	0.13	68428.9375
	R2401218-002 100X	Cd (214.439 nm)	-0.0001 u	29.63	-21.4434
	R2401218-002 100X	Co (230.786 nm)	-0.0002 u	> 100.00	46.4959
	R2401218-002 100X	Cr (267.716 nm)	0.0006	19.80	-45.9433
	R2401218-002 100X	Cu (327.395 nm)	0.0039	10.80	117.6185
	R2401218-002 100X	Fe (234.350 nm)	0.1320	0.20	3002.5941
	R2401218-002 100X	K (766.491 nm)	1.9413	2.12	1746.7534
	R2401218-002 100X	Mg (279.078 nm)	0.5237	0.03	1725.7747
	R2401218-002 100X	Mn (257.610 nm)	0.0350	0.16	11840.6096
	R2401218-002 100X	Mo (202.032 nm)	-0.0003 u	35.98	-16.2207
	R2401218-002 100X	Na (588.995 nm)	5.6190	0.35	56092.2468
	R2401218-002 100X	Ni (230.299 nm)	0.0006 u	> 100.00	84.1745
	R2401218-002 100X	Pb (220.353 nm)	0.0000 u	> 100.00	-15.8061
	R2401218-002 100X	Sb (217.582 nm)	-0.0006 u	> 100.00	15.2853
	R2401218-002 100X	Se (196.026 nm)	0.0013 u	> 100.00	-5.5849
	R2401218-002 100X	Sn (189.925 nm)	0.0006	81.20	7.7996
	R2401218-002 100X	Sr (216.596 nm)	0.0067	3.23	80.2339
	R2401218-002 100X	Ti (336.122 nm)	0.0000 u	> 100.00	-144.2565
	R2401218-002 100X	Tl (190.794 nm)	-0.0008 u	> 100.00	-5.1564
	R2401218-002 100X	V (292.401 nm)	0.0002	1.16	-65.6961
	R2401218-002 100X	Y (360.074 nm)	0.99	0.25	488577.22
	R2401218-002 100X	Y_R (360.074 nm)	0.99	0.24	488240.46
	R2401218-002 100X	Zn (213.857 nm)	0.0051	1.72	247.5364
2/21/2024 17:44:51	R2401218-003 100X	Ag (328.068 nm)	0.0001 u	> 100.00	-270.0368
	R2401218-003 100X	Al (237.312 nm)	0.0009	76.48	88.4506
	R2401218-003 100X	As (188.980 nm)	0.0003 u	> 100.00	-13.3541
	R2401218-003 100X	B (249.772 nm)	0.0446	0.43	1581.5530
	R2401218-003 100X	Ba (230.424 nm)	0.0028	3.05	123.0302
	R2401218-003 100X	Be (313.107 nm)	0.0000 u	> 100.00	-221.2561
	R2401218-003 100X	Ca (317.933 nm)	2.4724	0.18	102173.0760
	R2401218-003 100X	Cd (214.439 nm)	0.0000 u	30.74	-18.6348
	R2401218-003 100X	Co (230.786 nm)	-0.0002 u	> 100.00	45.9876
	R2401218-003 100X	Cr (267.716 nm)	0.0002	69.78	-59.9935
	R2401218-003 100X	Cu (327.395 nm)	0.0008	18.02	-4.1031
	R2401218-003 100X	Fe (234.350 nm)	0.0544	0.35	1254.9695
	R2401218-003 100X	K (766.491 nm)	1.6199	1.96	1402.0759
	R2401218-003 100X	Mg (279.078 nm)	0.5929	0.70	1955.6955
	R2401218-003 100X	Mn (257.610 nm)	0.0439	0.19	14828.7205

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401218-003 100X	Mo (202.032 nm)	-0.0003 u	43.57	-15.5876
	R2401218-003 100X	Na (588.995 nm)	4.8250	0.27	45891.5560
	R2401218-003 100X	Ni (230.299 nm)	0.0011	26.81	90.2879
	R2401218-003 100X	Pb (220.353 nm)	-0.0001 u	> 100.00	-16.1610
	R2401218-003 100X	Sb (217.582 nm)	-0.0007 u	> 100.00	15.0881
	R2401218-003 100X	Se (196.026 nm)	-0.0031 u	96.16	-9.1740
	R2401218-003 100X	Sn (189.925 nm)	0.0005 u	> 100.00	7.5929
	R2401218-003 100X	Sr (216.596 nm)	0.0145	0.70	237.5091
	R2401218-003 100X	Ti (336.122 nm)	-0.0001 u	81.18	-153.7195
	R2401218-003 100X	Tl (190.794 nm)	-0.0009 u	> 100.00	-5.3473
	R2401218-003 100X	V (292.401 nm)	0.0000 u	> 100.00	-75.3899
	R2401218-003 100X	Y (360.074 nm)	0.99	0.31	489099.15
	R2401218-003 100X	Y_R (360.074 nm)	0.99	0.31	488751.83
	R2401218-003 100X	Zn (213.857 nm)	0.0012	5.98	15.3366
2/21/2024 17:48:05	Continuing Calibration Verification	Ag (328.068 nm)	0.5171	0.14	31405.6984
	Continuing Calibration Verification	Al (237.312 nm)	10.1009	0.27	26006.7452
	Continuing Calibration Verification	As (188.980 nm)	0.9848	0.50	1813.6257
	Continuing Calibration Verification	B (249.772 nm)	2.4496	0.13	83055.8017
	Continuing Calibration Verification	Ba (230.424 nm)	10.3507	0.28	506640.5115
	Continuing Calibration Verification	Be (313.107 nm)	0.2452	0.06	280149.6714
	Continuing Calibration Verification	Ca (317.933 nm)	25.9348	0.05	1046646.5426
	Continuing Calibration Verification	Cd (214.439 nm)	0.5124	0.04	32779.1797
	Continuing Calibration Verification	Co (230.786 nm)	2.5684	0.14	41630.6877
	Continuing Calibration Verification	Cr (267.716 nm)	0.5171	0.06	23653.6108
	Continuing Calibration Verification	Cu (327.395 nm)	1.2512	0.24	48515.2924
	Continuing Calibration Verification	Fe (234.350 nm)	5.0757	0.06	114293.1442
	Continuing Calibration Verification	K (766.491 nm)	24.2785	0.40	25704.6292
	Continuing Calibration Verification	Mg (279.078 nm)	25.3228	0.11	84158.4844
	Continuing Calibration Verification	Mn (257.610 nm)	0.7537	0.05	255321.1894
	Continuing Calibration Verification	Mo (202.032 nm)	2.5662	0.43	21254.0404
	Continuing Calibration Verification	Na (588.995 nm)	25.1135	0.43	306551.3583
	Continuing Calibration Verification	Ni (230.299 nm)	2.1123	0.14	25702.8936
	Continuing Calibration Verification	Pb (220.353 nm)	0.5149	0.33	2953.8757
	Continuing Calibration Verification	Sb (217.582 nm)	4.9960	0.26	12313.1642
	Continuing Calibration Verification	Se (196.026 nm)	0.4909	0.33	402.1014
	Continuing Calibration Verification	Sn (189.925 nm)	5.1119	0.17	15577.0740
	Continuing Calibration Verification	Sr (216.596 nm)	2.5212	0.26	50503.5737
	Continuing Calibration Verification	Ti (336.122 nm)	2.5350	0.09	340724.1369
	Continuing Calibration Verification	Tl (190.794 nm)	1.0405	0.50	1325.1561
	Continuing Calibration Verification	V (292.401 nm)	2.5315	0.06	104814.0810
	Continuing Calibration Verification	Y (360.074 nm)	0.95	0.46	467880.12
	Continuing Calibration Verification	Y_R (360.074 nm)	0.95	0.46	467539.72
	Continuing Calibration Verification	Zn (213.857 nm)	0.9898	0.16	58177.4750
2/21/2024 17:51:19	Continuing Calibration Blank	Ag (328.068 nm)	0.0001 u	> 100.00	-269.1524
	Continuing Calibration Blank	Al (237.312 nm)	0.0002 u	> 100.00	86.7553
	Continuing Calibration Blank	As (188.980 nm)	0.0039	36.85	-6.7616
	Continuing Calibration Blank	B (249.772 nm)	0.0012	14.02	112.4857
	Continuing Calibration Blank	Ba (230.424 nm)	0.0005	17.07	9.7642
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	31.49	-211.9647
	Continuing Calibration Blank	Ca (317.933 nm)	-0.0003 u	45.64	2635.8951
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	-19.3529
	Continuing Calibration Blank	Co (230.786 nm)	0.0002	98.22	53.0335
	Continuing Calibration Blank	Cr (267.716 nm)	-0.0001 u	> 100.00	-74.5858
	Continuing Calibration Blank	Cu (327.395 nm)	-0.0002 u	> 100.00	-41.6632
	Continuing Calibration Blank	Fe (234.350 nm)	0.0020	29.13	75.3487
	Continuing Calibration Blank	K (766.491 nm)	0.0517	66.52	-279.9380
	Continuing Calibration Blank	Mg (279.078 nm)	-0.0015 u	60.98	-20.0050

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Mn (257.610 nm)	0.0001	23.37	-17.5425
	Continuing Calibration Blank	Mo (202.032 nm)	0.0053	13.90	30.1662
	Continuing Calibration Blank	Na (588.995 nm)	0.0331	14.40	-15673.8072
	Continuing Calibration Blank	Ni (230.299 nm)	0.0006	65.72	84.3183
	Continuing Calibration Blank	Pb (220.353 nm)	0.0003	> 100.00	-14.1259
	Continuing Calibration Blank	Sb (217.582 nm)	0.0091	15.49	39.2884
	Continuing Calibration Blank	Se (196.026 nm)	0.0012 u	> 100.00	-5.6217
	Continuing Calibration Blank	Sn (189.925 nm)	0.0014	8.84	10.3050
	Continuing Calibration Blank	Sr (216.596 nm)	0.0001	28.27	-50.3669
	Continuing Calibration Blank	Ti (336.122 nm)	0.0035	27.95	326.0557
	Continuing Calibration Blank	Tl (190.794 nm)	-0.0005 u	> 100.00	-4.8708
	Continuing Calibration Blank	V (292.401 nm)	0.0003	23.53	-61.4812
	Continuing Calibration Blank	Y (360.074 nm)	1.00	0.30	490729.17
	Continuing Calibration Blank	Y_R (360.074 nm)	1.00	0.30	490326.31
	Continuing Calibration Blank	Zn (213.857 nm)	0.0000 u	> 100.00	-53.4136
2/21/2024 17:54:33	Contract Required Detection Limit	Ag (328.068 nm)	0.0098	3.05	325.2244
	Contract Required Detection Limit	Al (237.312 nm)	0.1971	0.93	591.9041
	Contract Required Detection Limit	As (188.980 nm)	0.0201	6.20	23.3500
	Contract Required Detection Limit	B (249.772 nm)	0.1924	0.10	6590.3107
	Contract Required Detection Limit	Ba (230.424 nm)	0.2072	0.28	10128.5786
	Contract Required Detection Limit	Be (313.107 nm)	0.0049	0.13	5383.1457
	Contract Required Detection Limit	Ca (317.933 nm)	1.0220	0.04	43788.0066
	Contract Required Detection Limit	Cd (214.439 nm)	0.0103	0.89	644.1836
	Contract Required Detection Limit	Co (230.786 nm)	0.0512	0.34	878.4045
	Contract Required Detection Limit	Cr (267.716 nm)	0.0103	0.97	401.3134
	Contract Required Detection Limit	Cu (327.395 nm)	0.0247	0.23	925.7042
	Contract Required Detection Limit	Fe (234.350 nm)	0.1100	0.27	2506.5898
	Contract Required Detection Limit	K (766.491 nm)	0.9567	2.78	690.7540
	Contract Required Detection Limit	Mg (279.078 nm)	0.9813	0.21	3246.9007
	Contract Required Detection Limit	Mn (257.610 nm)	0.0154	0.21	5192.2608
	Contract Required Detection Limit	Mo (202.032 nm)	0.0250	1.22	193.7134
	Contract Required Detection Limit	Na (588.995 nm)	0.9718	0.08	-3613.3040
	Contract Required Detection Limit	Ni (230.299 nm)	0.0404	0.58	566.7591
	Contract Required Detection Limit	Pb (220.353 nm)	0.0118	5.27	51.9804
	Contract Required Detection Limit	Sb (217.582 nm)	0.0592	3.06	162.5112
	Contract Required Detection Limit	Se (196.026 nm)	0.0086	14.19	0.5349
	Contract Required Detection Limit	Sn (189.925 nm)	0.5052	0.21	1544.7179
	Contract Required Detection Limit	Sr (216.596 nm)	0.1014	0.43	1980.9277
	Contract Required Detection Limit	Ti (336.122 nm)	0.0501	0.85	6593.4735
	Contract Required Detection Limit	Tl (190.794 nm)	0.0177	10.36	18.4012
	Contract Required Detection Limit	V (292.401 nm)	0.0492	0.22	1966.3583
	Contract Required Detection Limit	Y (360.074 nm)	0.99	0.58	486730.18
	Contract Required Detection Limit	Y_R (360.074 nm)	0.99	0.58	486286.21
	Contract Required Detection Limit	Zn (213.857 nm)	0.0199	0.20	1114.6292
2/21/2024 17:57:46	Interference Check Solution A	Ag (328.068 nm)	-0.0001 u	> 100.00	-281.6290
	Interference Check Solution A	Al (237.312 nm)	255.0883 o	0.19	654685.1196
	Interference Check Solution A	As (188.980 nm)	-0.0087 Ku +/-0.01	22.48	-30.0943 K
	Interference Check Solution A	B (249.772 nm)	0.1153	0.41	3977.5102
	Interference Check Solution A	Ba (230.424 nm)	0.0004	31.94	4.9924
	Interference Check Solution A	Be (313.107 nm)	0.0000 u	31.95	-246.8970
	Interference Check Solution A	Ca (317.933 nm)	242.3477 o	0.05	9758320.5212
	Interference Check Solution A	Cd (214.439 nm)	-0.0020 Ku +/-0.002	2.41	-146.9206 K
	Interference Check Solution A	Co (230.786 nm)	0.0017	12.72	77.1554
	Interference Check Solution A	Cr (267.716 nm)	0.0010	1.70	-25.9676
	Interference Check Solution A	Cu (327.395 nm)	0.0007	29.19	-8.7196
	Interference Check Solution A	Fe (234.350 nm)	95.0681 o	0.10	2140178.0616
	Interference Check Solution A	K (766.491 nm)	0.0174 u	> 100.00	-316.7423

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Interference Check Solution A	Mg (279.078 nm)	263.2001 o	0.04	874869.5670
	Interference Check Solution A	Mn (257.610 nm)	0.0014	0.81	430.9625
	Interference Check Solution A	Mo (202.032 nm)	-0.0025 u	24.92	-33.8780
	Interference Check Solution A	Na (588.995 nm)	-0.0596 u	8.87	-16863.8672
	Interference Check Solution A	Ni (230.299 nm)	0.0015	47.73	95.9095
	Interference Check Solution A	Pb (220.353 nm)	-0.0027 u	20.44	-31.3641
	Interference Check Solution A	Sb (217.582 nm)	-0.0036 u	54.98	8.0227
	Interference Check Solution A	Se (196.026 nm)	0.0070 u	> 100.00	-0.8172
	Interference Check Solution A	Sn (189.925 nm)	0.0021	54.87	12.3518
	Interference Check Solution A	Sr (216.596 nm)	0.0100	0.80	146.4489
	Interference Check Solution A	Ti (336.122 nm)	0.0021	18.45	136.3937
	Interference Check Solution A	Tl (190.794 nm)	0.0009 u	> 100.00	-3.0271
	Interference Check Solution A	V (292.401 nm)	0.0021	6.66	14.4269
	Interference Check Solution A	Y (360.074 nm)	0.87	0.47	429452.10
	Interference Check Solution A	Y_R (360.074 nm)	0.87	0.47	429225.55
	Interference Check Solution A	Zn (213.857 nm)	0.0117 K +/- 0.02	0.90	631.7700 K
2/21/2024 18:01:00	Interference Check Solution AB	Ag (328.068 nm)	0.2070	0.03	12406.4169
	Interference Check Solution AB	Al (237.312 nm)	257.6904 o	0.13	661362.4415
	Interference Check Solution AB	As (188.980 nm)	0.0922	1.30	157.1955
	Interference Check Solution AB	B (249.772 nm)	0.1307	0.20	4497.8379
	Interference Check Solution AB	Ba (230.424 nm)	0.5316	0.17	26007.1083
	Interference Check Solution AB	Be (313.107 nm)	0.4896	0.22	559706.8526
	Interference Check Solution AB	Ca (317.933 nm)	244.5282 o	0.16	9846096.8152
	Interference Check Solution AB	Cd (214.439 nm)	0.9871	0.09	63168.1530
	Interference Check Solution AB	Co (230.786 nm)	0.4922	0.16	8017.3114
	Interference Check Solution AB	Cr (267.716 nm)	0.5105	0.04	23350.2943
	Interference Check Solution AB	Cu (327.395 nm)	0.5348	0.29	20715.5547
	Interference Check Solution AB	Fe (234.350 nm)	95.9119 o	0.11	2159174.2229
	Interference Check Solution AB	K (766.491 nm)	0.0100 u	> 100.00	-324.6277
	Interference Check Solution AB	Mg (279.078 nm)	265.8028 o	0.07	883520.9684
	Interference Check Solution AB	Mn (257.610 nm)	0.4972	0.17	168418.1989
	Interference Check Solution AB	Mo (202.032 nm)	-0.0032 u	6.23	-39.7370
	Interference Check Solution AB	Na (588.995 nm)	-0.0499 u	14.15	-16739.5865
	Interference Check Solution AB	Ni (230.299 nm)	1.0026	0.16	12241.0653
	Interference Check Solution AB	Pb (220.353 nm)	0.0467	1.72	253.2525
	Interference Check Solution AB	Sb (217.582 nm)	0.6113	0.68	1521.4417
	Interference Check Solution AB	Se (196.026 nm)	0.0589	15.36	42.4446
	Interference Check Solution AB	Sn (189.925 nm)	0.0038	35.43	17.4603
	Interference Check Solution AB	Sr (216.596 nm)	0.0102	2.91	151.1925
	Interference Check Solution AB	Ti (336.122 nm)	0.0019	7.86	116.1374
	Interference Check Solution AB	Tl (190.794 nm)	0.1000	3.46	123.5898
	Interference Check Solution AB	V (292.401 nm)	0.5106	0.18	21079.8158
	Interference Check Solution AB	Y (360.074 nm)	0.87	0.55	429612.14
	Interference Check Solution AB	Y_R (360.074 nm)	0.87	0.55	429344.00
	Interference Check Solution AB	Zn (213.857 nm)	1.0240	0.22	60191.0800
2/21/2024 18:04:14	Continuing Calibration Verification	Ag (328.068 nm)	0.5166	0.25	31374.4446
	Continuing Calibration Verification	Al (237.312 nm)	10.0848	0.33	25965.4544
	Continuing Calibration Verification	As (188.980 nm)	0.9799	0.30	1804.5582
	Continuing Calibration Verification	B (249.772 nm)	2.4459	0.09	82932.4482
	Continuing Calibration Verification	Ba (230.424 nm)	10.3676	0.23	507471.5735
	Continuing Calibration Verification	Be (313.107 nm)	0.2454	0.08	280343.4720
	Continuing Calibration Verification	Ca (317.933 nm)	25.9765	0.11	1048327.1433
	Continuing Calibration Verification	Cd (214.439 nm)	0.5127	0.12	32798.2646
	Continuing Calibration Verification	Co (230.786 nm)	2.5735	0.08	41714.5609
	Continuing Calibration Verification	Cr (267.716 nm)	0.5162	0.09	23614.3081
	Continuing Calibration Verification	Cu (327.395 nm)	1.2473	0.13	48362.5280
	Continuing Calibration Verification	Fe (234.350 nm)	5.0988	0.06	114813.1256

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	K (766.491 nm)	24.1658	0.18	25583.7117
	Continuing Calibration Verification	Mg (279.078 nm)	25.3523	0.12	84256.8381
	Continuing Calibration Verification	Mn (257.610 nm)	0.7519	0.05	254721.9086
	Continuing Calibration Verification	Mo (202.032 nm)	2.5626	0.38	21223.7723
	Continuing Calibration Verification	Na (588.995 nm)	24.9399	0.37	304321.4375
	Continuing Calibration Verification	Ni (230.299 nm)	2.1083	0.03	25655.3606
	Continuing Calibration Verification	Pb (220.353 nm)	0.5144	0.33	2950.5519
	Continuing Calibration Verification	Sb (217.582 nm)	4.9788	0.17	12270.8413
	Continuing Calibration Verification	Se (196.026 nm)	0.4863	0.91	398.3143
	Continuing Calibration Verification	Sn (189.925 nm)	5.1097	0.13	15570.4629
	Continuing Calibration Verification	Sr (216.596 nm)	2.5231	0.06	50542.6539
	Continuing Calibration Verification	Ti (336.122 nm)	2.5309	0.08	340181.1772
	Continuing Calibration Verification	Tl (190.794 nm)	1.0367	0.16	1320.3058
	Continuing Calibration Verification	V (292.401 nm)	2.5301	0.08	104754.2352
	Continuing Calibration Verification	Y (360.074 nm)	0.95	0.35	468312.61
	Continuing Calibration Verification	Y_R (360.074 nm)	0.95	0.35	467895.99
	Continuing Calibration Verification	Zn (213.857 nm)	0.9916	0.18	58287.7398
2/21/2024 18:07:28	Continuing Calibration Blank	Ag (328.068 nm)	0.0002 u	> 100.00	-263.2068
	Continuing Calibration Blank	Al (237.312 nm)	0.0011 u	> 100.00	88.8845
	Continuing Calibration Blank	As (188.980 nm)	0.0025	38.59	-9.2457
	Continuing Calibration Blank	B (249.772 nm)	0.0009	33.94	102.4855
	Continuing Calibration Blank	Ba (230.424 nm)	0.0007	11.19	17.6048
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	63.66	-199.9342
	Continuing Calibration Blank	Ca (317.933 nm)	0.0001 u	> 100.00	2651.3505
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	-16.2503
	Continuing Calibration Blank	Co (230.786 nm)	-0.0001 u	> 100.00	47.4417
	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u	> 100.00	-71.7172
	Continuing Calibration Blank	Cu (327.395 nm)	0.0000 u	> 100.00	-34.6288
	Continuing Calibration Blank	Fe (234.350 nm)	0.0028	23.49	94.2661
	Continuing Calibration Blank	K (766.491 nm)	0.0419	30.50	-290.4413
	Continuing Calibration Blank	Mg (279.078 nm)	-0.0003 u	> 100.00	-16.0324
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000	26.25	-19.2075
	Continuing Calibration Blank	Mo (202.032 nm)	0.0050	6.79	27.9779
	Continuing Calibration Blank	Na (588.995 nm)	0.0212	9.16	-15826.7108
	Continuing Calibration Blank	Ni (230.299 nm)	0.0002 u	> 100.00	79.8052
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0004 u	> 100.00	-18.1318
	Continuing Calibration Blank	Sb (217.582 nm)	0.0096	11.46	40.6002
	Continuing Calibration Blank	Se (196.026 nm)	0.0017 u	> 100.00	-5.1792
	Continuing Calibration Blank	Sn (189.925 nm)	0.0016	84.68	10.6911
	Continuing Calibration Blank	Sr (216.596 nm)	0.0001 u	> 100.00	-51.2823
	Continuing Calibration Blank	Ti (336.122 nm)	0.0035	27.48	332.9179
	Continuing Calibration Blank	Tl (190.794 nm)	-0.0002 u	> 100.00	-4.4647
	Continuing Calibration Blank	V (292.401 nm)	0.0001 u	> 100.00	-69.3824
	Continuing Calibration Blank	Y (360.074 nm)	1.00	0.32	490896.91
	Continuing Calibration Blank	Y_R (360.074 nm)	1.00	0.32	490458.22
	Continuing Calibration Blank	Zn (213.857 nm)	0.0001 u	> 100.00	-50.2354
2/21/2024 18:10:42	PBW-434253	Ag (328.068 nm)	0.0000	32.57	-272.5193
	PBW-434253	Al (237.312 nm)	-0.0007 u	> 100.00	84.4324
	PBW-434253	As (188.980 nm)	0.0012	83.70	-11.7309
	PBW-434253	B (249.772 nm)	0.0004	76.39	83.9547
	PBW-434253	Ba (230.424 nm)	-0.0001 u	10.53	-17.4036
	PBW-434253	Be (313.107 nm)	0.0000	48.71	-212.3945
	PBW-434253	Ca (317.933 nm)	0.0040	3.27	2809.0999
	PBW-434253	Cd (214.439 nm)	0.0001	64.51	-13.5484
	PBW-434253	Co (230.786 nm)	-0.0002 u	> 100.00	46.4223
	PBW-434253	Cr (267.716 nm)	0.0001 u	> 100.00	-68.6756
	PBW-434253	Cu (327.395 nm)	-0.0002 u	26.98	-41.7866

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	PBW-434253	Fe (234.350 nm)	0.0036	12.11	112.5857
	PBW-434253	K (766.491 nm)	0.0364	94.91	-296.3816
	PBW-434253	Mg (279.078 nm)	0.0005 u	> 100.00	-13.5923
	PBW-434253	Mn (257.610 nm)	0.0001	41.92	-17.1428
	PBW-434253	Mo (202.032 nm)	0.0010	55.90	-5.5369
	PBW-434253	Na (588.995 nm)	0.0336	19.76	-15667.1059
	PBW-434253	Ni (230.299 nm)	-0.0004 u	> 100.00	72.6033
	PBW-434253	Pb (220.353 nm)	0.0006	40.10	-12.6670
	PBW-434253	Sb (217.582 nm)	0.0073	10.04	34.8540
	PBW-434253	Se (196.026 nm)	0.0007 u	> 100.00	-6.0217
	PBW-434253	Sn (189.925 nm)	0.0013	57.85	9.8790
	PBW-434253	Sr (216.596 nm)	0.0001	69.53	-51.9102
	PBW-434253	Ti (336.122 nm)	0.0007	71.05	-42.5262
	PBW-434253	Tl (190.794 nm)	-0.0026 u	59.69	-7.4315
	PBW-434253	V (292.401 nm)	0.0001	3.98	-68.7359
	PBW-434253	Y (360.074 nm)	1.01	0.33	495454.72
	PBW-434253	Y_R (360.074 nm)	1.00	0.33	494934.75
	PBW-434253	Zn (213.857 nm)	0.0004	11.35	-31.1230
2/21/2024 18:13:56	LCSW-434253	Ag (328.068 nm)	0.0503	0.37	2804.6791
	LCSW-434253	Al (237.312 nm)	1.9008	0.14	4963.8614
	LCSW-434253	As (188.980 nm)	0.0366	4.64	53.9699
	LCSW-434253	B (249.772 nm)	0.9530	0.22	32356.2289
	LCSW-434253	Ba (230.424 nm)	1.9969	0.07	97732.3444
	LCSW-434253	Be (313.107 nm)	0.0475	0.12	54117.7080
	LCSW-434253	Ca (317.933 nm)	1.9754	0.05	82166.3246
	LCSW-434253	Cd (214.439 nm)	0.0505	0.16	3215.5910
	LCSW-434253	Co (230.786 nm)	0.5034	0.23	8198.6449
	LCSW-434253	Cr (267.716 nm)	0.1960	0.25	8921.2578
	LCSW-434253	Cu (327.395 nm)	0.2445	0.23	9453.6703
	LCSW-434253	Fe (234.350 nm)	0.9773	0.17	22030.0990
	LCSW-434253	K (766.491 nm)	18.1975	0.39	19182.4399
	LCSW-434253	Mg (279.078 nm)	1.9148	0.31	6349.8836
	LCSW-434253	Mn (257.610 nm)	0.4816	0.16	163131.9933
	LCSW-434253	Mo (202.032 nm)	0.4763	0.68	3933.8303
	LCSW-434253	Na (588.995 nm)	18.8685	0.31	226317.9478
	LCSW-434253	Ni (230.299 nm)	0.5159	0.07	6336.4853
	LCSW-434253	Pb (220.353 nm)	0.5010	0.16	2873.6788
	LCSW-434253	Sb (217.582 nm)	0.4788	0.90	1195.1653
	LCSW-434253	Se (196.026 nm)	0.9664	0.47	798.0502
	LCSW-434253	Sn (189.925 nm)	4.8721	0.26	14846.6581
	LCSW-434253	Sr (216.596 nm)	1.9766	0.24	39582.5951
	LCSW-434253	Ti (336.122 nm)	0.4829	0.14	64795.2018
	LCSW-434253	Tl (190.794 nm)	1.9715	0.35	2514.6194
	LCSW-434253	V (292.401 nm)	0.4797	0.21	19802.7958
	LCSW-434253	Y (360.074 nm)	0.98	0.44	484302.68
	LCSW-434253	Y_R (360.074 nm)	0.98	0.44	483856.64
	LCSW-434253	Zn (213.857 nm)	0.4992	0.13	29318.1181
2/21/2024 18:17:10	R2401215-001	Ag (328.068 nm)	0.0002	13.10	-263.8211
	R2401215-001	Al (237.312 nm)	0.0796	2.70	290.4038
	R2401215-001	As (188.980 nm)	0.0010 u	> 100.00	-11.9658
	R2401215-001	B (249.772 nm)	0.0065	2.35	290.0314
	R2401215-001	Ba (230.424 nm)	0.0181	0.10	872.4338
	R2401215-001	Be (313.107 nm)	0.0000	5.35	-211.1638
	R2401215-001	Ca (317.933 nm)	7.6839	0.10	311959.6151
	R2401215-001	Cd (214.439 nm)	0.0000 u	> 100.00	-14.7630
	R2401215-001	Co (230.786 nm)	-0.0002 u	92.96	46.8316
	R2401215-001	Cr (267.716 nm)	0.0003	52.46	-56.8642

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401215-001	Cu (327.395 nm)	0.0007	10.87	-6.2940
	R2401215-001	Fe (234.350 nm)	0.1204	0.24	2740.9618
	R2401215-001	K (766.491 nm)	0.7839	2.53	505.3920
	R2401215-001	Mg (279.078 nm)	1.7041	0.23	5649.2391
	R2401215-001	Mn (257.610 nm)	0.0205	0.05	6894.8149
	R2401215-001	Mo (202.032 nm)	0.0030	22.15	11.1034
	R2401215-001	Na (588.995 nm)	7.9560	0.18	86117.2485
	R2401215-001	Ni (230.299 nm)	-0.0007 u	72.65	68.9022
	R2401215-001	Pb (220.353 nm)	0.0003 u	> 100.00	-14.0804
	R2401215-001	Sb (217.582 nm)	0.0078	13.21	36.0133
	R2401215-001	Se (196.026 nm)	0.0090	25.37	0.8850
	R2401215-001	Sn (189.925 nm)	0.0022	53.04	12.6960
	R2401215-001	Sr (216.596 nm)	0.0214	2.14	374.9972
	R2401215-001	Ti (336.122 nm)	0.0025	15.78	193.4865
	R2401215-001	Tl (190.794 nm)	-0.0020 u	79.42	-6.7628
	R2401215-001	V (292.401 nm)	0.0003	70.64	-60.3148
	R2401215-001	Y (360.074 nm)	0.99	0.46	489114.83
	R2401215-001	Y_R (360.074 nm)	0.99	0.46	488600.13
	R2401215-001	Zn (213.857 nm)	0.0055	1.31	272.2264
2/21/2024 18:20:24	R2401215-001S	Ag (328.068 nm)	0.0509	0.24	2842.6819
	R2401215-001S	Al (237.312 nm)	1.9925	0.37	5199.2460
	R2401215-001S	As (188.980 nm)	0.0389	2.85	58.3345
	R2401215-001S	B (249.772 nm)	0.9811	0.08	33306.5936
	R2401215-001S	Ba (230.424 nm)	2.0423	0.30	99955.2527
	R2401215-001S	Be (313.107 nm)	0.0486	0.08	55348.0208
	R2401215-001S	Ca (317.933 nm)	9.6869	0.06	392592.4994
	R2401215-001S	Cd (214.439 nm)	0.0509	0.09	3243.0635
	R2401215-001S	Co (230.786 nm)	0.5094	0.19	8296.8341
	R2401215-001S	Cr (267.716 nm)	0.1995	0.16	9082.0316
	R2401215-001S	Cu (327.395 nm)	0.2495	0.28	9645.7303
	R2401215-001S	Fe (234.350 nm)	1.0967	0.08	24718.6738
	R2401215-001S	K (766.491 nm)	19.3824	0.44	20453.3213
	R2401215-001S	Mg (279.078 nm)	3.6349	0.09	12067.4231
	R2401215-001S	Mn (257.610 nm)	0.5106	0.03	172957.6912
	R2401215-001S	Mo (202.032 nm)	0.4859	0.52	4013.1624
	R2401215-001S	Na (588.995 nm)	27.2025	0.23	333390.4844
	R2401215-001S	Ni (230.299 nm)	0.5220	0.22	6409.7932
	R2401215-001S	Pb (220.353 nm)	0.5043	0.31	2892.3632
	R2401215-001S	Sb (217.582 nm)	0.4901	1.02	1223.2150
	R2401215-001S	Se (196.026 nm)	0.9834	0.15	812.2177
	R2401215-001S	Sn (189.925 nm)	4.9670	0.07	15135.7086
	R2401215-001S	Sr (216.596 nm)	2.0219	0.11	40490.9254
	R2401215-001S	Ti (336.122 nm)	0.4931	0.15	66156.3818
	R2401215-001S	Tl (190.794 nm)	1.9911	0.18	2539.6929
	R2401215-001S	V (292.401 nm)	0.4900	0.14	20226.3190
	R2401215-001S	Y (360.074 nm)	0.97	0.36	480161.21
	R2401215-001S	Y_R (360.074 nm)	0.97	0.36	479675.67
	R2401215-001S	Zn (213.857 nm)	0.5066	0.09	29750.8258
2/21/2024 18:23:38	R2401215-001SD	Ag (328.068 nm)	0.0509	0.19	2843.1912
	R2401215-001SD	Al (237.312 nm)	1.9804	0.25	5168.2440
	R2401215-001SD	As (188.980 nm)	0.0374	2.05	55.4169
	R2401215-001SD	B (249.772 nm)	0.9789	0.02	33233.0532
	R2401215-001SD	Ba (230.424 nm)	2.0389	0.25	99788.6105
	R2401215-001SD	Be (313.107 nm)	0.0485	0.05	55238.4804
	R2401215-001SD	Ca (317.933 nm)	9.6745	0.02	392090.1306
	R2401215-001SD	Cd (214.439 nm)	0.0508	0.22	3233.6294
	R2401215-001SD	Co (230.786 nm)	0.5081	0.09	8276.1607

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401215-001SD	Cr (267.716 nm)	0.1989	0.12	9056.3309
	R2401215-001SD	Cu (327.395 nm)	0.2486	0.12	9611.5940
	R2401215-001SD	Fe (234.350 nm)	1.0927	0.04	24629.2590
	R2401215-001SD	K (766.491 nm)	19.3089	0.35	20374.4314
	R2401215-001SD	Mg (279.078 nm)	3.6242	0.04	12031.9466
	R2401215-001SD	Mn (257.610 nm)	0.5091	0.12	172450.0008
	R2401215-001SD	Mo (202.032 nm)	0.4907	0.25	4053.4290
	R2401215-001SD	Na (588.995 nm)	27.1135	0.19	332246.7344
	R2401215-001SD	Ni (230.299 nm)	0.5202	0.18	6388.2816
	R2401215-001SD	Pb (220.353 nm)	0.5023	0.21	2881.0000
	R2401215-001SD	Sb (217.582 nm)	0.4950	0.88	1235.0975
	R2401215-001SD	Se (196.026 nm)	0.9906	0.24	818.1771
	R2401215-001SD	Sn (189.925 nm)	4.9639	0.12	15126.1086
	R2401215-001SD	Sr (216.596 nm)	2.0261	0.15	40575.3845
	R2401215-001SD	Ti (336.122 nm)	0.4955	0.08	66488.1156
	R2401215-001SD	Tl (190.794 nm)	1.9882	0.10	2535.9930
	R2401215-001SD	V (292.401 nm)	0.4884	0.10	20162.1133
	R2401215-001SD	Y (360.074 nm)	0.97	0.36	479726.70
	R2401215-001SD	Y_R (360.074 nm)	0.97	0.36	479212.94
	R2401215-001SD	Zn (213.857 nm)	0.5044	0.05	29622.3893
2/21/2024 18:26:51	R2401215-001A	Ag (328.068 nm)	0.0498	0.48	2774.4327
	R2401215-001A	Al (237.312 nm)	1.9767	0.49	5158.5814
	R2401215-001A	As (188.980 nm)	0.0386	4.02	57.7623
	R2401215-001A	B (249.772 nm)	0.9689	0.37	32894.5502
	R2401215-001A	Ba (230.424 nm)	1.9999	0.50	97878.4176
	R2401215-001A	Be (313.107 nm)	0.0476	0.28	54242.2731
	R2401215-001A	Ca (317.933 nm)	9.5842	0.27	388456.8545
	R2401215-001A	Cd (214.439 nm)	0.0499	0.34	3179.1606
	R2401215-001A	Co (230.786 nm)	0.4989	0.34	8126.1306
	R2401215-001A	Cr (267.716 nm)	0.1954	0.09	8894.5972
	R2401215-001A	Cu (327.395 nm)	0.2452	0.19	9478.2491
	R2401215-001A	Fe (234.350 nm)	1.0861	0.35	24480.3266
	R2401215-001A	K (766.491 nm)	19.0394	0.37	20085.4536
	R2401215-001A	Mg (279.078 nm)	3.5519	0.28	11791.3617
	R2401215-001A	Mn (257.610 nm)	0.5001	0.28	169422.7091
	R2401215-001A	Mo (202.032 nm)	0.4805	0.55	3968.8177
	R2401215-001A	Na (588.995 nm)	26.6380	0.45	326138.4571
	R2401215-001A	Ni (230.299 nm)	0.5110	0.39	6276.2497
	R2401215-001A	Pb (220.353 nm)	0.4939	0.36	2832.7138
	R2401215-001A	Sb (217.582 nm)	0.4850	1.28	1210.4452
	R2401215-001A	Se (196.026 nm)	0.9817	0.62	810.7903
	R2401215-001A	Sn (189.925 nm)	4.9087	0.34	14957.9522
	R2401215-001A	Sr (216.596 nm)	1.9820	0.64	39690.7703
	R2401215-001A	Ti (336.122 nm)	0.4864	0.36	65263.1387
	R2401215-001A	Tl (190.794 nm)	1.9520	0.23	2489.7002
	R2401215-001A	V (292.401 nm)	0.4795	0.31	19792.1401
	R2401215-001A	Y (360.074 nm)	0.97	0.51	479844.36
	R2401215-001A	Y_R (360.074 nm)	0.97	0.50	479313.17
	R2401215-001A	Zn (213.857 nm)	0.5030	0.40	29536.5578
2/21/2024 18:30:05	R2401215-001L 5X	Ag (328.068 nm)	0.0000 u	> 100.00	-272.6100
	R2401215-001L 5X	Al (237.312 nm)	0.0176	11.63	131.3858
	R2401215-001L 5X	As (188.980 nm)	0.0017	67.57	-10.8044
	R2401215-001L 5X	B (249.772 nm)	0.0015	10.43	122.5323
	R2401215-001L 5X	Ba (230.424 nm)	0.0036	3.25	162.9031
	R2401215-001L 5X	Be (313.107 nm)	0.0000	50.63	-214.0491
	R2401215-001L 5X	Ca (317.933 nm)	1.5405	0.39	64659.0560
	R2401215-001L 5X	Cd (214.439 nm)	0.0000 u	> 100.00	-18.3723

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401215-001L 5X	Co (230.786 nm)	0.0000 u	> 100.00	49.4505
	R2401215-001L 5X	Cr (267.716 nm)	0.0001 u	> 100.00	-67.3852
	R2401215-001L 5X	Cu (327.395 nm)	0.0002 u	> 100.00	-28.3624
	R2401215-001L 5X	Fe (234.350 nm)	0.0256	0.80	606.0403
	R2401215-001L 5X	K (766.491 nm)	0.2074	4.77	-112.9784
	R2401215-001L 5X	Mg (279.078 nm)	0.3472	1.09	1138.9679
	R2401215-001L 5X	Mn (257.610 nm)	0.0042	0.17	1381.5882
	R2401215-001L 5X	Mo (202.032 nm)	0.0029	4.97	10.8101
	R2401215-001L 5X	Na (588.995 nm)	1.6219	0.43	4739.7055
	R2401215-001L 5X	Ni (230.299 nm)	0.0000 u	> 100.00	77.6074
	R2401215-001L 5X	Pb (220.353 nm)	0.0003 u	> 100.00	-14.2677
	R2401215-001L 5X	Sb (217.582 nm)	0.0055	20.92	30.3005
	R2401215-001L 5X	Se (196.026 nm)	0.0101	33.06	1.8187
	R2401215-001L 5X	Sn (189.925 nm)	0.0038	26.44	17.4208
	R2401215-001L 5X	Sr (216.596 nm)	0.0043	3.60	33.7456
	R2401215-001L 5X	Ti (336.122 nm)	0.0014	29.66	47.6883
	R2401215-001L 5X	Tl (190.794 nm)	-0.0014 u	> 100.00	-5.9400
	R2401215-001L 5X	V (292.401 nm)	0.0000 u	> 100.00	-72.9252
	R2401215-001L 5X	Y (360.074 nm)	1.00	0.20	491277.10
	R2401215-001L 5X	Y_R (360.074 nm)	1.00	0.20	490764.51
	R2401215-001L 5X	Zn (213.857 nm)	0.0011	4.52	8.1499
2/21/2024 18:33:19	R2401215-002	Ag (328.068 nm)	0.0001 u	97.79	-266.2840
	R2401215-002	Al (237.312 nm)	0.0719	4.44	270.5813
	R2401215-002	As (188.980 nm)	0.0001 u	> 100.00	-13.7676
	R2401215-002	B (249.772 nm)	0.0056	3.65	259.2598
	R2401215-002	Ba (230.424 nm)	0.0180	0.34	869.0658
	R2401215-002	Be (313.107 nm)	0.0000	86.25	-221.0530
	R2401215-002	Ca (317.933 nm)	7.5726	0.04	307482.0004
	R2401215-002	Cd (214.439 nm)	0.0000 u	> 100.00	-15.5654
	R2401215-002	Co (230.786 nm)	-0.0003 u	26.43	44.0150
	R2401215-002	Cr (267.716 nm)	0.0004	19.39	-52.0821
	R2401215-002	Cu (327.395 nm)	0.0008	23.89	-4.7124
	R2401215-002	Fe (234.350 nm)	0.1060	0.13	2417.3474
	R2401215-002	K (766.491 nm)	0.7901	3.97	512.0061
	R2401215-002	Mg (279.078 nm)	1.6556	0.11	5488.1542
	R2401215-002	Mn (257.610 nm)	0.0150	0.08	5050.5696
	R2401215-002	Mo (202.032 nm)	0.0009	46.85	-5.8211
	R2401215-002	Na (588.995 nm)	8.0115	0.24	86831.1796
	R2401215-002	Ni (230.299 nm)	-0.0009 u	74.68	66.5995
	R2401215-002	Pb (220.353 nm)	-0.0001 u	> 100.00	-16.1489
	R2401215-002	Sb (217.582 nm)	0.0036	24.36	25.7978
	R2401215-002	Se (196.026 nm)	0.0005 u	> 100.00	-6.2517
	R2401215-002	Sn (189.925 nm)	0.0015	50.67	10.3961
	R2401215-002	Sr (216.596 nm)	0.0215	0.36	377.6705
	R2401215-002	Ti (336.122 nm)	0.0013	26.57	28.1345
	R2401215-002	Tl (190.794 nm)	-0.0012 u	> 100.00	-5.7447
	R2401215-002	V (292.401 nm)	0.0002	75.04	-67.2959
	R2401215-002	Y (360.074 nm)	0.99	0.37	486677.35
	R2401215-002	Y_R (360.074 nm)	0.99	0.37	486172.76
	R2401215-002	Zn (213.857 nm)	0.0032	2.94	132.4367
2/21/2024 18:36:33	R2401216-001	Ag (328.068 nm)	0.0000 u	> 100.00	-272.9439
	R2401216-001	Al (237.312 nm)	0.0030	27.22	93.9730
	R2401216-001	As (188.980 nm)	-0.0023 u	35.04	-18.0925
	R2401216-001	B (249.772 nm)	0.0071	2.14	313.1235
	R2401216-001	Ba (230.424 nm)	0.0255	0.31	1235.9050
	R2401216-001	Be (313.107 nm)	0.0000 u	> 100.00	-223.5393
	R2401216-001	Ca (317.933 nm)	7.4273	0.05	301632.0985

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401216-001	Cd (214.439 nm)	0.0001	31.97	-11.3215
	R2401216-001	Co (230.786 nm)	-0.0001 u	> 100.00	48.2908
	R2401216-001	Cr (267.716 nm)	0.0004	34.97	-53.7806
	R2401216-001	Cu (327.395 nm)	0.0006	43.24	-10.4153
	R2401216-001	Fe (234.350 nm)	0.0082	1.07	214.4777
	R2401216-001	K (766.491 nm)	1.2243	1.15	977.7201
	R2401216-001	Mg (279.078 nm)	1.9107	0.11	6336.0893
	R2401216-001	Mn (257.610 nm)	0.0003	9.39	53.7609
	R2401216-001	Mo (202.032 nm)	0.0001 u	> 100.00	-12.8043
	R2401216-001	Na (588.995 nm)	37.0329	0.41	459688.5652
	R2401216-001	Ni (230.299 nm)	-0.0010 u	13.28	64.6697
	R2401216-001	Pb (220.353 nm)	0.0004	> 100.00	-13.3176
	R2401216-001	Sb (217.582 nm)	0.0033	25.57	24.9344
	R2401216-001	Se (196.026 nm)	0.0035	85.77	-3.7374
	R2401216-001	Sn (189.925 nm)	0.0017	31.99	11.1575
	R2401216-001	Sr (216.596 nm)	0.0333	1.04	615.1566
	R2401216-001	Ti (336.122 nm)	0.0000 u	> 100.00	-140.3942
	R2401216-001	Tl (190.794 nm)	-0.0008 u	75.13	-5.1660
	R2401216-001	V (292.401 nm)	0.0000 u	> 100.00	-73.7886
	R2401216-001	Y (360.074 nm)	0.97	0.42	478235.48
	R2401216-001	Y_R (360.074 nm)	0.97	0.43	477780.73
	R2401216-001	Zn (213.857 nm)	0.0057	1.66	279.3435
2/21/2024 18:39:46	R2401216-002	Ag (328.068 nm)	0.0001 u	> 100.00	-269.9832
	R2401216-002	Al (237.312 nm)	0.0047	21.84	98.2574
	R2401216-002	As (188.980 nm)	-0.0015 u	16.69	-16.7061
	R2401216-002	B (249.772 nm)	0.0074	2.76	321.8885
	R2401216-002	Ba (230.424 nm)	0.0238	0.58	1150.6816
	R2401216-002	Be (313.107 nm)	0.0000 u	> 100.00	-228.5405
	R2401216-002	Ca (317.933 nm)	7.3819	0.05	299804.8658
	R2401216-002	Cd (214.439 nm)	0.0001	81.62	-9.5941
	R2401216-002	Co (230.786 nm)	0.0000 u	> 100.00	49.6707
	R2401216-002	Cr (267.716 nm)	0.0002 u	> 100.00	-63.8091
	R2401216-002	Cu (327.395 nm)	0.0011	6.86	9.2870
	R2401216-002	Fe (234.350 nm)	0.0038	5.28	115.0980
	R2401216-002	K (766.491 nm)	1.2302	4.06	984.0658
	R2401216-002	Mg (279.078 nm)	1.9105	0.10	6335.6198
	R2401216-002	Mn (257.610 nm)	0.0006	1.42	180.3990
	R2401216-002	Mo (202.032 nm)	0.0000 u	> 100.00	-13.2736
	R2401216-002	Na (588.995 nm)	36.5223	0.43	453128.2228
	R2401216-002	Ni (230.299 nm)	-0.0009 u	47.80	66.4383
	R2401216-002	Pb (220.353 nm)	0.0000 u	> 100.00	-16.1274
	R2401216-002	Sb (217.582 nm)	0.0029	48.41	24.0054
	R2401216-002	Se (196.026 nm)	0.0025 u	> 100.00	-4.5600
	R2401216-002	Sn (189.925 nm)	0.0010	57.16	8.8793
	R2401216-002	Sr (216.596 nm)	0.0232	1.18	411.5416
	R2401216-002	Ti (336.122 nm)	-0.0003 u	81.91	-181.8949
	R2401216-002	Tl (190.794 nm)	-0.0022 u	35.92	-6.9562
	R2401216-002	V (292.401 nm)	0.0003	52.42	-63.6244
	R2401216-002	Y (360.074 nm)	0.97	0.41	478131.87
	R2401216-002	Y_R (360.074 nm)	0.97	0.41	477713.67
	R2401216-002	Zn (213.857 nm)	0.0059	1.57	293.1954
2/21/2024 18:43:00	Continuing Calibration Verification1	Ag (328.068 nm)	0.5218	0.08	31695.5821
	Continuing Calibration Verification1	Al (237.312 nm)	10.1994	0.11	26259.3820
	Continuing Calibration Verification1	As (188.980 nm)	0.9942	0.20	1831.1881
	Continuing Calibration Verification1	B (249.772 nm)	2.4704	0.07	83762.4243
	Continuing Calibration Verification1	Ba (230.424 nm)	10.4413	0.12	511078.4751
	Continuing Calibration Verification1	Be (313.107 nm)	0.2475	0.06	282777.8411

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification1	Ca (317.933 nm)	26.1298	0.03	1054498.3829
	Continuing Calibration Verification1	Cd (214.439 nm)	0.5172	0.10	33087.2500
	Continuing Calibration Verification1	Co (230.786 nm)	2.5833	0.29	41873.2554
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5207	0.09	23819.3721
	Continuing Calibration Verification1	Cu (327.395 nm)	1.2638	0.14	49002.8106
	Continuing Calibration Verification1	Fe (234.350 nm)	5.1179	0.05	115243.7273
	Continuing Calibration Verification1	K (766.491 nm)	24.5851	0.29	26033.5163
	Continuing Calibration Verification1	Mg (279.078 nm)	25.5199	0.03	84813.9363
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7591	0.03	257177.7722
	Continuing Calibration Verification1	Mo (202.032 nm)	2.5937	0.42	21481.6338
	Continuing Calibration Verification1	Na (588.995 nm)	25.3806	0.39	309983.4331
	Continuing Calibration Verification1	Ni (230.299 nm)	2.1298	0.13	25915.9177
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5192	0.21	2978.6639
	Continuing Calibration Verification1	Sb (217.582 nm)	5.0573	0.25	12464.0509
	Continuing Calibration Verification1	Se (196.026 nm)	0.4931	0.81	403.9625
	Continuing Calibration Verification1	Sn (189.925 nm)	5.1636	0.19	15734.5520
	Continuing Calibration Verification1	Sr (216.596 nm)	2.5392	0.24	50864.1239
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5577	0.08	343784.9109
	Continuing Calibration Verification1	Tl (190.794 nm)	1.0436	0.33	1329.1686
	Continuing Calibration Verification1	V (292.401 nm)	2.5531	0.06	105710.4778
	Continuing Calibration Verification1	Y (360.074 nm)	0.94	0.48	464276.97
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.94	0.49	463898.12
	Continuing Calibration Verification1	Zn (213.857 nm)	1.0002	0.11	58789.3173
2/21/2024 18:46:14	Continuing Calibration Blank1	Ag (328.068 nm)	0.0000 u	> 100.00	-273.6397
	Continuing Calibration Blank1	Al (237.312 nm)	0.0015	54.00	90.1276
	Continuing Calibration Blank1	As (188.980 nm)	0.0031	48.79	-8.1323
	Continuing Calibration Blank1	B (249.772 nm)	0.0010	17.54	105.2344
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0002	56.10	-4.5895
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000 u	> 100.00	-224.7366
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0010	13.85	2686.6038
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000 u	> 100.00	-15.2247
	Continuing Calibration Blank1	Co (230.786 nm)	-0.0001 u	> 100.00	48.4632
	Continuing Calibration Blank1	Cr (267.716 nm)	-0.0001 u	51.53	-77.2561
	Continuing Calibration Blank1	Cu (327.395 nm)	-0.0001 u	> 100.00	-38.9218
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0022	20.11	80.4546
	Continuing Calibration Blank1	K (766.491 nm)	0.0797	26.70	-249.9266
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0004 u	> 100.00	-13.7817
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0000	55.75	-26.4518
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0045	13.75	24.0744
	Continuing Calibration Blank1	Na (588.995 nm)	0.0248	27.59	-15780.4362
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0006	37.64	84.8595
	Continuing Calibration Blank1	Pb (220.353 nm)	-0.0005 u	94.56	-18.7477
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0079	13.39	36.2420
	Continuing Calibration Blank1	Se (196.026 nm)	0.0014	36.60	-5.4390
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0019	38.13	11.6124
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0001	92.20	-50.8712
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0033	31.42	302.7970
	Continuing Calibration Blank1	Tl (190.794 nm)	-0.0023 u	41.41	-7.1070
	Continuing Calibration Blank1	V (292.401 nm)	0.0001 u	> 100.00	-71.0243
	Continuing Calibration Blank1	Y (360.074 nm)	0.99	0.27	487268.75
	Continuing Calibration Blank1	Y_R (360.074 nm)	0.99	0.27	486887.18
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0007	3.33	-11.4204
2/21/2024 18:49:27	R2401216-003	Ag (328.068 nm)	0.0000 u	> 100.00	-276.5330
	R2401216-003	Al (237.312 nm)	0.0115	19.51	115.6130
	R2401216-003	As (188.980 nm)	0.0007	73.38	-12.5401
	R2401216-003	B (249.772 nm)	0.0123	1.25	488.0474
	R2401216-003	Ba (230.424 nm)	0.0889	0.33	4335.7214

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401216-003	Be (313.107 nm)	0.0000 u	> 100.00	-228.7461
	R2401216-003	Ca (317.933 nm)	21.0985	0.06	851964.6664
	R2401216-003	Cd (214.439 nm)	0.0001	75.02	-13.5932
	R2401216-003	Co (230.786 nm)	0.0000 u	> 100.00	49.0722
	R2401216-003	Cr (267.716 nm)	0.0002	52.42	-60.3606
	R2401216-003	Cu (327.395 nm)	0.0004	29.73	-17.2307
	R2401216-003	Fe (234.350 nm)	0.0108	3.53	274.4462
	R2401216-003	K (766.491 nm)	3.0528	1.00	2938.9418
	R2401216-003	Mg (279.078 nm)	5.9067	0.10	19619.0112
	R2401216-003	Mn (257.610 nm)	0.0019	1.35	622.2386
	R2401216-003	Mo (202.032 nm)	0.0005	82.32	-9.5407
	R2401216-003	Na (588.995 nm)	94.5618 o	0.30	1198800.9546
	R2401216-003	Ni (230.299 nm)	-0.0005 u	78.21	71.1290
	R2401216-003	Pb (220.353 nm)	0.0005 u	> 100.00	-12.9253
	R2401216-003	Sb (217.582 nm)	0.0030	80.34	24.2254
	R2401216-003	Se (196.026 nm)	0.0030 u	> 100.00	-4.1644
	R2401216-003	Sn (189.925 nm)	0.0009	99.91	8.6104
	R2401216-003	Sr (216.596 nm)	0.0551	0.43	1051.9669
	R2401216-003	Ti (336.122 nm)	0.0013	44.30	28.2309
	R2401216-003	Tl (190.794 nm)	-0.0014 u	> 100.00	-5.9219
	R2401216-003	V (292.401 nm)	0.0001	46.54	-69.4529
	R2401216-003	Y (360.074 nm)	0.95	0.47	469176.50
	R2401216-003	Y_R (360.074 nm)	0.95	0.47	468882.80
	R2401216-003	Zn (213.857 nm)	0.0104	1.06	558.0590
2/21/2024 18:52:41	R2401216-004	Ag (328.068 nm)	0.0000 u	> 100.00	-274.8391
	R2401216-004	Al (237.312 nm)	0.0043	32.92	97.1610
	R2401216-004	As (188.980 nm)	0.0008 u	> 100.00	-12.4226
	R2401216-004	B (249.772 nm)	0.0125	0.98	495.2109
	R2401216-004	Ba (230.424 nm)	0.0884	0.07	4314.5387
	R2401216-004	Be (313.107 nm)	0.0000 u	> 100.00	-221.0084
	R2401216-004	Ca (317.933 nm)	21.2294	0.03	857233.5939
	R2401216-004	Cd (214.439 nm)	0.0001	52.13	-11.2128
	R2401216-004	Co (230.786 nm)	-0.0002 u	75.25	46.0503
	R2401216-004	Cr (267.716 nm)	-0.0001 u	> 100.00	-73.5882
	R2401216-004	Cu (327.395 nm)	0.0011	38.81	7.6039
	R2401216-004	Fe (234.350 nm)	0.0032	4.90	103.1359
	R2401216-004	K (766.491 nm)	3.0847	0.89	2973.0886
	R2401216-004	Mg (279.078 nm)	5.9244	0.09	19677.7339
	R2401216-004	Mn (257.610 nm)	0.0015	2.14	465.7471
	R2401216-004	Mo (202.032 nm)	0.0001 u	> 100.00	-12.2513
	R2401216-004	Na (588.995 nm)	95.0179 o	0.36	1204660.7803
	R2401216-004	Ni (230.299 nm)	-0.0010 u	5.64	64.5983
	R2401216-004	Pb (220.353 nm)	0.0008	82.11	-11.3797
	R2401216-004	Sb (217.582 nm)	0.0034	57.82	25.2528
	R2401216-004	Se (196.026 nm)	-0.0004 u	> 100.00	-6.9635
	R2401216-004	Sn (189.925 nm)	0.0016	29.89	10.6830
	R2401216-004	Sr (216.596 nm)	0.0560	0.60	1069.2260
	R2401216-004	Ti (336.122 nm)	0.0003 u	> 100.00	-105.6400
	R2401216-004	Tl (190.794 nm)	-0.0035 u	20.42	-8.5866
	R2401216-004	V (292.401 nm)	0.0000 u	> 100.00	-72.2844
	R2401216-004	Y (360.074 nm)	0.95	0.41	469709.64
	R2401216-004	Y_R (360.074 nm)	0.95	0.41	469393.19
	R2401216-004	Zn (213.857 nm)	0.0140	0.81	767.5555
2/21/2024 18:55:56	R2401216-005	Ag (328.068 nm)	0.0001 u	> 100.00	-270.4333
	R2401216-005	Al (237.312 nm)	0.0228	11.81	144.5473
	R2401216-005	As (188.980 nm)	0.0027	35.49	-8.8595
	R2401216-005	B (249.772 nm)	0.1761	0.34	6036.1177

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401216-005	Ba (230.424 nm)	0.0782	0.16	3813.0679
	R2401216-005	Be (313.107 nm)	0.0000	25.73	-214.3300
	R2401216-005	Ca (317.933 nm)	4.9701	0.18	202717.6268
	R2401216-005	Cd (214.439 nm)	0.0001	32.18	-12.2620
	R2401216-005	Co (230.786 nm)	-0.0002 u	64.13	46.2244
	R2401216-005	Cr (267.716 nm)	0.0006	12.12	-42.0691
	R2401216-005	Cu (327.395 nm)	0.0037	4.71	108.7899
	R2401216-005	Fe (234.350 nm)	0.0413	0.41	959.9399
	R2401216-005	K (766.491 nm)	0.8602	3.71	587.2366
	R2401216-005	Mg (279.078 nm)	1.3964	0.18	4626.5361
	R2401216-005	Mn (257.610 nm)	0.0226	0.16	7614.5932
	R2401216-005	Mo (202.032 nm)	0.0005	62.33	-8.9961
	R2401216-005	Na (588.995 nm)	72.9409 o	0.29	921022.8898
	R2401216-005	Ni (230.299 nm)	-0.0011 u	31.34	64.1304
	R2401216-005	Pb (220.353 nm)	0.0000 u	> 100.00	-15.5822
	R2401216-005	Sb (217.582 nm)	0.0026	38.56	23.3661
	R2401216-005	Se (196.026 nm)	-0.0008 u	> 100.00	-7.3333
	R2401216-005	Sn (189.925 nm)	0.0016	33.85	10.8577
	R2401216-005	Sr (216.596 nm)	0.1543	0.30	3040.3789
	R2401216-005	Ti (336.122 nm)	0.0001	84.72	-123.5195
	R2401216-005	Tl (190.794 nm)	-0.0020 u	19.98	-6.7440
	R2401216-005	V (292.401 nm)	0.0002	97.95	-64.0558
	R2401216-005	Y (360.074 nm)	0.96	0.53	474633.81
	R2401216-005	Y_R (360.074 nm)	0.96	0.53	474321.83
	R2401216-005	Zn (213.857 nm)	0.0049	2.35	236.8021
2/21/2024 18:59:10	R2401216-006	Ag (328.068 nm)	-0.0001 u	> 100.00	-278.9960
	R2401216-006	Al (237.312 nm)	0.0056	14.38	100.4369
	R2401216-006	As (188.980 nm)	0.0021	41.22	-10.0586
	R2401216-006	B (249.772 nm)	0.1758	0.09	6027.2719
	R2401216-006	Ba (230.424 nm)	0.0759	0.25	3702.5168
	R2401216-006	Be (313.107 nm)	0.0000 u	> 100.00	-223.9145
	R2401216-006	Ca (317.933 nm)	5.0479	0.07	205849.2930
	R2401216-006	Cd (214.439 nm)	0.0000 u	> 100.00	-16.0600
	R2401216-006	Co (230.786 nm)	-0.0002 u	13.79	45.6650
	R2401216-006	Cr (267.716 nm)	0.0001 u	> 100.00	-66.4323
	R2401216-006	Cu (327.395 nm)	0.0020	11.46	44.6209
	R2401216-006	Fe (234.350 nm)	0.0065	0.30	176.0620
	R2401216-006	K (766.491 nm)	0.8506	0.56	576.9112
	R2401216-006	Mg (279.078 nm)	1.4127	0.13	4680.6569
	R2401216-006	Mn (257.610 nm)	0.0217	0.09	7330.6621
	R2401216-006	Mo (202.032 nm)	0.0004 u	> 100.00	-9.7709
	R2401216-006	Na (588.995 nm)	72.6412 o	0.48	917171.6642
	R2401216-006	Ni (230.299 nm)	-0.0010 u	53.22	64.7824
	R2401216-006	Pb (220.353 nm)	-0.0004 u	> 100.00	-18.0021
	R2401216-006	Sb (217.582 nm)	0.0042	21.07	27.1585
	R2401216-006	Se (196.026 nm)	0.0009 u	> 100.00	-5.8484
	R2401216-006	Sn (189.925 nm)	0.0011	55.18	9.3256
	R2401216-006	Sr (216.596 nm)	0.1528	0.24	3011.6475
	R2401216-006	Ti (336.122 nm)	-0.0002 u	78.15	-171.6685
	R2401216-006	Tl (190.794 nm)	-0.0025 u	63.13	-7.3298
	R2401216-006	V (292.401 nm)	0.0001	> 100.00	-68.5527
	R2401216-006	Y (360.074 nm)	0.97	0.34	475517.18
	R2401216-006	Y_R (360.074 nm)	0.96	0.34	475210.20
	R2401216-006	Zn (213.857 nm)	0.0016	4.16	39.1903
2/21/2024 19:02:24	R2401216-007	Ag (328.068 nm)	0.0000 u	> 100.00	-273.5331
	R2401216-007	Al (237.312 nm)	0.0413	2.23	192.0536
	R2401216-007	As (188.980 nm)	-0.0004 u	> 100.00	-14.6763

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401216-007	B (249.772 nm)	0.0042	7.03	213.6991
	R2401216-007	Ba (230.424 nm)	0.0134	1.23	639.4730
	R2401216-007	Be (313.107 nm)	0.0000 u	> 100.00	-231.0469
	R2401216-007	Ca (317.933 nm)	5.6683	0.06	230822.0412
	R2401216-007	Cd (214.439 nm)	0.0000	76.82	-15.5501
	R2401216-007	Co (230.786 nm)	-0.0001 u	> 100.00	47.5678
	R2401216-007	Cr (267.716 nm)	0.0005	16.54	-50.0796
	R2401216-007	Cu (327.395 nm)	0.0004	75.55	-18.5047
	R2401216-007	Fe (234.350 nm)	0.0737	0.42	1688.9856
	R2401216-007	K (766.491 nm)	0.4973	6.13	197.9468
	R2401216-007	Mg (279.078 nm)	1.5402	0.32	5104.6339
	R2401216-007	Mn (257.610 nm)	0.0020	0.99	631.2289
	R2401216-007	Mo (202.032 nm)	-0.0001 u	> 100.00	-13.9897
	R2401216-007	Na (588.995 nm)	3.9068	0.42	34094.6684
	R2401216-007	Ni (230.299 nm)	-0.0011 u	55.37	63.7044
	R2401216-007	Pb (220.353 nm)	0.0003 u	> 100.00	-14.2552
	R2401216-007	Sb (217.582 nm)	0.0037	29.91	25.9923
	R2401216-007	Se (196.026 nm)	0.0018 u	> 100.00	-5.1522
	R2401216-007	Sn (189.925 nm)	0.0008 u	> 100.00	8.4857
	R2401216-007	Sr (216.596 nm)	0.0195	1.35	337.5094
	R2401216-007	Ti (336.122 nm)	0.0003	15.96	-96.3603
	R2401216-007	Tl (190.794 nm)	-0.0017 u	97.17	-6.3975
	R2401216-007	V (292.401 nm)	0.0001 u	> 100.00	-69.4692
	R2401216-007	Y (360.074 nm)	1.00	0.32	492417.17
	R2401216-007	Y_R (360.074 nm)	1.00	0.32	492010.70
	R2401216-007	Zn (213.857 nm)	0.0046	1.50	218.9470
2/21/2024 19:05:38	R2401216-008	Ag (328.068 nm)	-0.0001 u	> 100.00	-280.6231
	R2401216-008	Al (237.312 nm)	0.0020 u	> 100.00	91.2582
	R2401216-008	As (188.980 nm)	-0.0015 u	> 100.00	-16.6179
	R2401216-008	B (249.772 nm)	0.0047	4.28	228.8446
	R2401216-008	Ba (230.424 nm)	0.0122	0.58	582.0915
	R2401216-008	Be (313.107 nm)	0.0000	94.66	-228.7713
	R2401216-008	Ca (317.933 nm)	5.6654	0.10	230705.4036
	R2401216-008	Cd (214.439 nm)	0.0001	20.04	-11.5026
	R2401216-008	Co (230.786 nm)	0.0002	27.20	52.6634
	R2401216-008	Cr (267.716 nm)	0.0002	23.00	-63.6698
	R2401216-008	Cu (327.395 nm)	0.0012	2.11	11.4308
	R2401216-008	Fe (234.350 nm)	0.0042	2.11	125.4267
	R2401216-008	K (766.491 nm)	0.4975	3.76	198.1630
	R2401216-008	Mg (279.078 nm)	1.5280	0.10	5064.1365
	R2401216-008	Mn (257.610 nm)	0.0005	4.44	122.0628
	R2401216-008	Mo (202.032 nm)	0.0002	60.23	-11.5737
	R2401216-008	Na (588.995 nm)	4.0798	0.34	36316.8800
	R2401216-008	Ni (230.299 nm)	-0.0006 u	83.62	69.9971
	R2401216-008	Pb (220.353 nm)	-0.0006 u	19.80	-19.4325
	R2401216-008	Sb (217.582 nm)	0.0039	48.28	26.5473
	R2401216-008	Se (196.026 nm)	0.0011 u	> 100.00	-5.6937
	R2401216-008	Sn (189.925 nm)	0.0004	> 100.00	7.2430
	R2401216-008	Sr (216.596 nm)	0.0198	1.23	343.3828
	R2401216-008	Ti (336.122 nm)	-0.0003 u	25.30	-187.9388
	R2401216-008	Tl (190.794 nm)	-0.0030 u	26.98	-8.0226
	R2401216-008	V (292.401 nm)	0.0001	> 100.00	-68.7428
	R2401216-008	Y (360.074 nm)	1.00	0.46	492023.17
	R2401216-008	Y_R (360.074 nm)	1.00	0.45	491520.57
	R2401216-008	Zn (213.857 nm)	0.0048	1.56	227.2470
2/21/2024 19:08:51	R2401241-005	Ag (328.068 nm)	0.0002	> 100.00	-262.1967
	R2401241-005	Al (237.312 nm)	0.0070	33.78	104.1241

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401241-005	As (188.980 nm)	-0.0013 u	98.27	-16.4109
	R2401241-005	B (249.772 nm)	0.0695	0.36	2426.5874
	R2401241-005	Ba (230.424 nm)	0.0273	0.47	1322.8788
	R2401241-005	Be (313.107 nm)	0.0000	22.66	-200.0332
	R2401241-005	Ca (317.933 nm)	142.1527 o	0.11	5724981.9065
	R2401241-005	Cd (214.439 nm)	0.0002	42.54	-5.3624
	R2401241-005	Co (230.786 nm)	0.0003	53.85	53.7656
	R2401241-005	Cr (267.716 nm)	0.0046	1.95	138.1564
	R2401241-005	Cu (327.395 nm)	0.0004	51.28	-18.4394
	R2401241-005	Fe (234.350 nm)	0.0115	1.18	288.4845
	R2401241-005	K (766.491 nm)	2.6241	1.12	2479.1242
	R2401241-005	Mg (279.078 nm)	70.8038 o	0.08	235338.7860
	R2401241-005	Mn (257.610 nm)	0.0004	4.36	103.0100
	R2401241-005	Mo (202.032 nm)	0.0099	3.07	68.4324
	R2401241-005	Na (588.995 nm)	35.7008	0.97	442573.2464
	R2401241-005	Ni (230.299 nm)	-0.0008 u	17.04	68.0119
	R2401241-005	Pb (220.353 nm)	0.0004 u	> 100.00	-13.4416
	R2401241-005	Sb (217.582 nm)	0.0029	69.97	24.0854
	R2401241-005	Se (196.026 nm)	0.0027	> 100.00	-4.3462
	R2401241-005	Sn (189.925 nm)	0.0007	63.75	8.1366
	R2401241-005	Sr (216.596 nm)	3.4350	0.13	68826.9872
	R2401241-005	Tl (336.122 nm)	0.0007	13.90	-42.0231
	R2401241-005	Tl (190.794 nm)	-0.0001 u	> 100.00	-4.2964
	R2401241-005	V (292.401 nm)	0.0007	18.77	-43.2042
	R2401241-005	Y (360.074 nm)	0.94	0.47	463819.76
	R2401241-005	Y_R (360.074 nm)	0.94	0.47	463377.06
	R2401241-005	Zn (213.857 nm)	0.0220	0.28	1240.8352
2/21/2024 19:12:05	R2401325-001	Ag (328.068 nm)	0.0001	49.78	-268.2867
	R2401325-001	Al (237.312 nm)	0.7062	0.67	1898.3779
	R2401325-001	As (188.980 nm)	0.0000 u	> 100.00	-13.8944
	R2401325-001	B (249.772 nm)	0.1001	0.31	3462.8747
	R2401325-001	Ba (230.424 nm)	0.0664	0.10	3235.1689
	R2401325-001	Be (313.107 nm)	0.0001	7.25	-171.0672
	R2401325-001	Ca (317.933 nm)	142.0568 o	0.04	5721123.8668
	R2401325-001	Cd (214.439 nm)	0.0001	51.11	-9.3136
	R2401325-001	Co (230.786 nm)	0.0002	37.11	52.0112
	R2401325-001	Cr (267.716 nm)	0.0018	6.82	11.8155
	R2401325-001	Cu (327.395 nm)	0.0012	9.20	12.0187
	R2401325-001	Fe (234.350 nm)	0.6126	0.15	13822.0935
	R2401325-001	K (766.491 nm)	2.1164	1.15	1934.5705
	R2401325-001	Mg (279.078 nm)	56.1683 o	0.05	186689.7936
	R2401325-001	Mn (257.610 nm)	0.0254	0.11	8558.9640
	R2401325-001	Mo (202.032 nm)	-0.0003 u	> 100.00	-15.6571
	R2401325-001	Na (588.995 nm)	18.2405	0.28	218249.3399
	R2401325-001	Ni (230.299 nm)	0.0112	1.87	213.3709
	R2401325-001	Pb (220.353 nm)	0.0004	76.74	-13.2718
	R2401325-001	Sb (217.582 nm)	0.0022	52.27	22.2684
	R2401325-001	Se (196.026 nm)	-0.0006 u	> 100.00	-7.1350
	R2401325-001	Sn (189.925 nm)	0.0002 u	> 100.00	6.4321
	R2401325-001	Sr (216.596 nm)	3.0712	0.13	61533.1091
	R2401325-001	Ti (336.122 nm)	0.0111	6.71	1349.3204
	R2401325-001	Tl (190.794 nm)	-0.0018 u	46.43	-6.4595
	R2401325-001	V (292.401 nm)	0.0018	9.70	-0.8112
	R2401325-001	Y (360.074 nm)	0.95	0.27	467186.32
	R2401325-001	Y_R (360.074 nm)	0.95	0.27	466741.94
	R2401325-001	Zn (213.857 nm)	0.0078	0.50	403.0355
2/21/2024 19:15:19	R2401325-002	Ag (328.068 nm)	0.0002	59.67	-264.8379

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401325-002	Al (237.312 nm)	0.4948	0.58	1355.7772
	R2401325-002	As (188.980 nm)	-0.0018 u	82.01	-17.2268
	R2401325-002	B (249.772 nm)	0.0855	0.33	2966.4750
	R2401325-002	Ba (230.424 nm)	0.1702	0.11	8315.5921
	R2401325-002	Be (313.107 nm)	0.0000	33.56	-193.3883
	R2401325-002	Ca (317.933 nm)	113.6880 o	0.09	4579139.9889
	R2401325-002	Cd (214.439 nm)	0.0001	32.12	-11.1784
	R2401325-002	Co (230.786 nm)	0.0008	28.07	61.7736
	R2401325-002	Cr (267.716 nm)	0.0022	7.89	30.5486
	R2401325-002	Cu (327.395 nm)	0.0011	5.16	7.2048
	R2401325-002	Fe (234.350 nm)	0.3060	0.22	6918.2482
	R2401325-002	K (766.491 nm)	1.8363	2.17	1634.1182
	R2401325-002	Mg (279.078 nm)	51.0380	0.12	169636.8040
	R2401325-002	Mn (257.610 nm)	0.0049	0.25	1634.4076
	R2401325-002	Mo (202.032 nm)	0.0028	10.50	9.9910
	R2401325-002	Na (588.995 nm)	21.3405	0.36	258077.9921
	R2401325-002	Ni (230.299 nm)	0.0012	51.54	91.3477
	R2401325-002	Pb (220.353 nm)	0.0010	85.53	-10.0017
	R2401325-002	Sb (217.582 nm)	0.0006 u	> 100.00	18.3532
	R2401325-002	Se (196.026 nm)	0.0001 u	> 100.00	-6.5800
	R2401325-002	Sn (189.925 nm)	0.0012	17.19	9.5952
	R2401325-002	Sr (216.596 nm)	1.4854	0.16	29733.1928
	R2401325-002	Ti (336.122 nm)	0.0124	3.11	1528.0400
	R2401325-002	Tl (190.794 nm)	-0.0010 u	> 100.00	-5.4684
	R2401325-002	V (292.401 nm)	0.0010	21.10	-33.0707
	R2401325-002	Y (360.074 nm)	0.95	0.30	467356.41
	R2401325-002	Y_R (360.074 nm)	0.95	0.30	466865.71
	R2401325-002	Zn (213.857 nm)	0.0086	0.18	451.1980
2/21/2024 19:18:32	Continuing Calibration Verification1	Ag (328.068 nm)	0.5203	0.09	31604.3979
	Continuing Calibration Verification1	Al (237.312 nm)	10.1273	0.25	26074.5294
	Continuing Calibration Verification1	As (188.980 nm)	0.9845	0.23	1813.1723
	Continuing Calibration Verification1	B (249.772 nm)	2.4702	0.04	83753.4582
	Continuing Calibration Verification1	Ba (230.424 nm)	10.3704	0.87	507604.3244
	Continuing Calibration Verification1	Be (313.107 nm)	0.2474	0.07	282672.9858
	Continuing Calibration Verification1	Ca (317.933 nm)	26.1413	0.08	1054961.5196
	Continuing Calibration Verification1	Cd (214.439 nm)	0.5154	0.10	32971.1981
	Continuing Calibration Verification1	Co (230.786 nm)	2.5799	0.23	41817.8584
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5185	0.12	23717.5141
	Continuing Calibration Verification1	Cu (327.395 nm)	1.2605	0.14	48877.7924
	Continuing Calibration Verification1	Fe (234.350 nm)	5.1038	0.04	114926.2779
	Continuing Calibration Verification1	K (766.491 nm)	24.3474	0.39	25778.4950
	Continuing Calibration Verification1	Mg (279.078 nm)	25.4565	0.11	84602.9325
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7572	0.09	256507.4583
	Continuing Calibration Verification1	Mo (202.032 nm)	2.5896	0.38	21447.7248
	Continuing Calibration Verification1	Na (588.995 nm)	25.1553	0.37	307089.1145
	Continuing Calibration Verification1	Ni (230.299 nm)	2.1231	0.15	25834.5715
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5173	0.31	2967.4094
	Continuing Calibration Verification1	Sb (217.582 nm)	5.0237	0.22	12381.2570
	Continuing Calibration Verification1	Se (196.026 nm)	0.4882	0.72	399.8933
	Continuing Calibration Verification1	Sn (189.925 nm)	5.1382	0.10	15657.2682
	Continuing Calibration Verification1	Sr (216.596 nm)	2.5375	0.15	50831.4899
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5523	0.11	343059.5809
	Continuing Calibration Verification1	Tl (190.794 nm)	1.0434	0.46	1328.8912
	Continuing Calibration Verification1	V (292.401 nm)	2.5479	0.09	105493.5469
	Continuing Calibration Verification1	Y (360.074 nm)	0.95	0.45	468263.24
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.95	0.45	467685.79
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9950	0.11	58485.2768

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
2/21/2024 19:21:46	Continuing Calibration Blank1	Ag (328.068 nm)	0.0002	> 100.00	-264.1700
	Continuing Calibration Blank1	Al (237.312 nm)	0.0005 u	> 100.00	87.5611
	Continuing Calibration Blank1	As (188.980 nm)	0.0019	> 100.00	-10.3398
	Continuing Calibration Blank1	B (249.772 nm)	0.0008	40.53	98.1593
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0001	73.84	-10.8761
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000	60.74	-218.3675
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0006	18.63	2672.2488
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000 u	> 100.00	-19.0710
	Continuing Calibration Blank1	Co (230.786 nm)	-0.0001 u	> 100.00	48.4663
	Continuing Calibration Blank1	Cr (267.716 nm)	-0.0002 u	20.13	-79.4684
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0002 u	> 100.00	-26.6158
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0021	28.70	78.5891
	Continuing Calibration Blank1	K (766.491 nm)	0.0285	4.32	-304.7993
	Continuing Calibration Blank1	Mg (279.078 nm)	-0.0001 u	> 100.00	-15.5625
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0000	32.00	-22.6173
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0049	7.77	27.5217
	Continuing Calibration Blank1	Na (588.995 nm)	0.0307	5.75	-15704.0175
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0001 u	> 100.00	78.5726
	Continuing Calibration Blank1	Pb (220.353 nm)	0.0001 u	> 100.00	-14.9845
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0067	3.85	33.2436
	Continuing Calibration Blank1	Se (196.026 nm)	-0.0010 u	> 100.00	-7.4652
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0016	19.20	10.6865
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0000 u	> 100.00	-53.4051
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0034	29.11	308.7028
	Continuing Calibration Blank1	Tl (190.794 nm)	-0.0028 u	44.63	-7.7957
	Continuing Calibration Blank1	V (292.401 nm)	0.0000 u	> 100.00	-72.6177
	Continuing Calibration Blank1	Y (360.074 nm)	1.00	0.28	490482.65
	Continuing Calibration Blank1	Y_R (360.074 nm)	0.99	0.28	489767.24
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0007	6.00	-11.1292
2/21/2024 19:24:59	Contract Required Detection Limit	Ag (328.068 nm)	0.0100	0.93	338.1347
	Contract Required Detection Limit	Al (237.312 nm)	0.1954	1.27	587.6213
	Contract Required Detection Limit	As (188.980 nm)	0.0199	2.52	23.0210
	Contract Required Detection Limit	B (249.772 nm)	0.1941	0.13	6645.1176
	Contract Required Detection Limit	Ba (230.424 nm)	0.2072	0.09	10130.3535
	Contract Required Detection Limit	Be (313.107 nm)	0.0049	0.39	5412.0786
	Contract Required Detection Limit	Ca (317.933 nm)	1.0236	0.03	43849.6780
	Contract Required Detection Limit	Cd (214.439 nm)	0.0103	0.80	643.5916
	Contract Required Detection Limit	Co (230.786 nm)	0.0515	0.80	882.5078
	Contract Required Detection Limit	Cr (267.716 nm)	0.0103	0.71	401.0684
	Contract Required Detection Limit	Cu (327.395 nm)	0.0250	0.95	937.1813
	Contract Required Detection Limit	Fe (234.350 nm)	0.1105	0.56	2517.3792
	Contract Required Detection Limit	K (766.491 nm)	0.9004	6.16	630.3859
	Contract Required Detection Limit	Mg (279.078 nm)	0.9809	0.16	3245.3991
	Contract Required Detection Limit	Mn (257.610 nm)	0.0155	0.08	5207.1554
	Contract Required Detection Limit	Mo (202.032 nm)	0.0253	3.13	196.0368
	Contract Required Detection Limit	Na (588.995 nm)	0.9727	0.46	-3601.9653
	Contract Required Detection Limit	Ni (230.299 nm)	0.0407	0.95	570.5359
	Contract Required Detection Limit	Pb (220.353 nm)	0.0105	3.05	44.6992
	Contract Required Detection Limit	Sb (217.582 nm)	0.0615	2.39	168.1108
	Contract Required Detection Limit	Se (196.026 nm)	0.0076 R 761.	53.39	-0.3221 R
	Contract Required Detection Limit	Sn (189.925 nm)	0.5050	0.24	1544.2257
	Contract Required Detection Limit	Sr (216.596 nm)	0.1016	0.50	1984.8639
	Contract Required Detection Limit	Ti (336.122 nm)	0.0502	0.76	6612.3593
	Contract Required Detection Limit	Tl (190.794 nm)	0.0172	4.73	17.8025
	Contract Required Detection Limit	V (292.401 nm)	0.0494	0.47	1971.7306
	Contract Required Detection Limit	Y (360.074 nm)	0.99	0.38	485568.05
	Contract Required Detection Limit	Y_R (360.074 nm)	0.98	0.37	484825.70

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Contract Required Detection Limit	Zn (213.857 nm)	0.0199	0.36	1116.2403
2/21/2024 19:28:13	Interference Check Solution A	Ag (328.068 nm)	-0.0002 u	> 100.00	-286.2611
	Interference Check Solution A	Al (237.312 nm)	256.3597 o	0.13	657947.6339
	Interference Check Solution A	As (188.980 nm)	-0.0062 Ku +/-0.01	28.49	-25.3350 K
	Interference Check Solution A	B (249.772 nm)	0.1148	0.18	3960.9286
	Interference Check Solution A	Ba (230.424 nm)	0.0004	32.93	7.0464
	Interference Check Solution A	Be (313.107 nm)	0.0000 u	> 100.00	-237.0804
	Interference Check Solution A	Ca (317.933 nm)	243.0297 o	0.20	9785775.1297
	Interference Check Solution A	Cd (214.439 nm)	-0.0021 Ku	8.81	-153.7054 K
	Interference Check Solution A	Co (230.786 nm)	0.0012	22.64	68.7710
	Interference Check Solution A	Cr (267.716 nm)	0.0010	10.61	-25.5115
	Interference Check Solution A	Cu (327.395 nm)	0.0009	20.43	0.0340
	Interference Check Solution A	Fe (234.350 nm)	95.3590 o	0.10	2146726.9740
	Interference Check Solution A	K (766.491 nm)	0.0010 u	> 100.00	-334.2634
	Interference Check Solution A	Mg (279.078 nm)	263.5400 o	0.12	875999.2368
	Interference Check Solution A	Mn (257.610 nm)	0.0014	1.06	431.4958
	Interference Check Solution A	Mo (202.032 nm)	-0.0022 u	34.96	-31.3535
	Interference Check Solution A	Na (588.995 nm)	-0.0711 u	4.77	-17012.4031
	Interference Check Solution A	Ni (230.299 nm)	0.0021	18.16	102.9969
	Interference Check Solution A	Pb (220.353 nm)	-0.0024 u	68.57	-29.9292
	Interference Check Solution A	Sb (217.582 nm)	-0.0063 u	19.80	1.4639
	Interference Check Solution A	Se (196.026 nm)	0.0036 u	> 100.00	-3.6696
	Interference Check Solution A	Sn (189.925 nm)	0.0035	23.36	16.6349
	Interference Check Solution A	Sr (216.596 nm)	0.0101	2.43	149.6605
	Interference Check Solution A	Ti (336.122 nm)	0.0021	14.42	141.8186
	Interference Check Solution A	Tl (190.794 nm)	-0.0038 u	40.60	-9.0201
	Interference Check Solution A	V (292.401 nm)	0.0021	14.21	11.3787
	Interference Check Solution A	Y (360.074 nm)	0.87	0.43	427397.28
	Interference Check Solution A	Y_R (360.074 nm)	0.87	0.44	426890.33
	Interference Check Solution A	Zn (213.857 nm)	0.0116 K +/-0.02	0.54	628.1474 K
2/21/2024 19:31:27	Interference Check Solution AB	Ag (328.068 nm)	0.2076	0.25	12443.8186
	Interference Check Solution AB	Al (237.312 nm)	258.9250 o	0.15	664530.7482
	Interference Check Solution AB	As (188.980 nm)	0.0899	3.01	153.0138
	Interference Check Solution AB	B (249.772 nm)	0.1304	0.27	4488.9494
	Interference Check Solution AB	Ba (230.424 nm)	0.5336	0.03	26105.6166
	Interference Check Solution AB	Be (313.107 nm)	0.4934	0.21	564041.1288
	Interference Check Solution AB	Ca (317.933 nm)	245.1409 o	0.05	9870760.1971
	Interference Check Solution AB	Cd (214.439 nm)	0.9916	0.10	63455.6489
	Interference Check Solution AB	Co (230.786 nm)	0.4944	0.04	8054.3966
	Interference Check Solution AB	Cr (267.716 nm)	0.5103	0.11	23340.8581
	Interference Check Solution AB	Cu (327.395 nm)	0.5383	0.22	20851.1637
	Interference Check Solution AB	Fe (234.350 nm)	96.2802 o	0.03	2167466.0501
	Interference Check Solution AB	K (766.491 nm)	0.0132 u	> 100.00	-321.2513
	Interference Check Solution AB	Mg (279.078 nm)	266.0891 o	0.04	884472.7488
	Interference Check Solution AB	Mn (257.610 nm)	0.4987	0.09	168937.4485
	Interference Check Solution AB	Mo (202.032 nm)	-0.0029 u	22.15	-37.9154
	Interference Check Solution AB	Na (588.995 nm)	-0.0618 u	0.51	-16892.9371
	Interference Check Solution AB	Ni (230.299 nm)	1.0073	0.13	12297.4434
	Interference Check Solution AB	Pb (220.353 nm)	0.0465	0.47	252.5309
	Interference Check Solution AB	Sb (217.582 nm)	0.6137	1.27	1527.3833
	Interference Check Solution AB	Se (196.026 nm)	0.0536	4.24	37.9943
	Interference Check Solution AB	Sn (189.925 nm)	0.0037	31.20	17.2497
	Interference Check Solution AB	Sr (216.596 nm)	0.0104	0.37	154.4317
	Interference Check Solution AB	Ti (336.122 nm)	0.0020	14.07	119.5358
	Interference Check Solution AB	Tl (190.794 nm)	0.1036	2.62	128.2016
	Interference Check Solution AB	V (292.401 nm)	0.5124	0.08	21155.0588
	Interference Check Solution AB	Y (360.074 nm)	0.87	0.30	426610.58

+/- 0.005

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Interference Check Solution AB	Y_R (360.074 nm)	0.87	0.30	426118.14
	Interference Check Solution AB	Zn (213.857 nm)	1.0271	0.14	60375.6603
2/21/2024 19:34:40	Continuing Calibration Verification1	Ag (328.068 nm)	0.5220	0.09	31704.0706
	Continuing Calibration Verification1	Al (237.312 nm)	10.2116	0.13	26290.8013
	Continuing Calibration Verification1	As (188.980 nm)	0.9970	0.24	1836.2448
	Continuing Calibration Verification1	B (249.772 nm)	2.4802	0.07	84093.3978
	Continuing Calibration Verification1	Ba (230.424 nm)	10.4446	0.20	511237.5795
	Continuing Calibration Verification1	Be (313.107 nm)	0.2485	0.06	283988.2736
	Continuing Calibration Verification1	Ca (317.933 nm)	26.2285	0.11	1058471.9153
	Continuing Calibration Verification1	Cd (214.439 nm)	0.5178	0.11	33128.1966
	Continuing Calibration Verification1	Co (230.786 nm)	2.5913	0.12	42002.0004
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5194	0.06	23762.2177
	Continuing Calibration Verification1	Cu (327.395 nm)	1.2653	0.11	49062.6017
	Continuing Calibration Verification1	Fe (234.350 nm)	5.1523	0.04	116018.1544
	Continuing Calibration Verification1	K (766.491 nm)	24.4690	0.34	25908.9620
	Continuing Calibration Verification1	Mg (279.078 nm)	25.5550	0.10	84930.4310
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7596	0.08	257335.2748
	Continuing Calibration Verification1	Mo (202.032 nm)	2.5989	0.47	21524.7523
	Continuing Calibration Verification1	Na (588.995 nm)	25.2906	0.32	308827.4057
	Continuing Calibration Verification1	Ni (230.299 nm)	2.1331	0.05	25955.5007
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5192	0.02	2978.4747
	Continuing Calibration Verification1	Sb (217.582 nm)	5.0487	0.20	12442.8325
	Continuing Calibration Verification1	Se (196.026 nm)	0.4914	0.13	402.5534
	Continuing Calibration Verification1	Sn (189.925 nm)	5.1681	0.05	15748.2620
	Continuing Calibration Verification1	Sr (216.596 nm)	2.5434	0.30	50949.1032
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5590	0.08	343958.9186
	Continuing Calibration Verification1	Tl (190.794 nm)	1.0502	0.22	1337.6344
	Continuing Calibration Verification1	V (292.401 nm)	2.5552	0.07	105796.2960
	Continuing Calibration Verification1	Y (360.074 nm)	0.94	0.45	464295.52
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.94	0.45	463664.66
	Continuing Calibration Verification1	Zn (213.857 nm)	1.0002	0.14	58789.8894
2/21/2024 19:37:54	Continuing Calibration Blank1	Ag (328.068 nm)	0.0000	29.44	-272.8132
	Continuing Calibration Blank1	Al (237.312 nm)	0.0010 u	> 100.00	88.7356
	Continuing Calibration Blank1	As (188.980 nm)	0.0028	44.91	-8.6339
	Continuing Calibration Blank1	B (249.772 nm)	0.0012	25.58	111.1763
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0002	26.89	-6.5899
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000	24.71	-220.2909
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0008	19.02	2676.5684
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000 u	> 100.00	-18.1251
	Continuing Calibration Blank1	Co (230.786 nm)	0.0000 u	> 100.00	48.9085
	Continuing Calibration Blank1	Cr (267.716 nm)	-0.0001 u	> 100.00	-73.8832
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0001 u	> 100.00	-31.2614
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0029	19.07	95.7854
	Continuing Calibration Blank1	K (766.491 nm)	0.0249 u	> 100.00	-308.6566
	Continuing Calibration Blank1	Mg (279.078 nm)	-0.0004 u	59.74	-16.5507
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0000	73.04	-28.7279
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0044	7.32	23.1826
	Continuing Calibration Blank1	Na (588.995 nm)	0.0136	23.78	-15924.2561
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0003 u	> 100.00	80.4586
	Continuing Calibration Blank1	Pb (220.353 nm)	0.0006	91.80	-12.5949
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0084	25.57	37.4904
	Continuing Calibration Blank1	Se (196.026 nm)	0.0004 u	> 100.00	-6.2931
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0007	82.46	8.1981
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0000 u	> 100.00	-53.0398
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0034	30.24	314.3141
	Continuing Calibration Blank1	Tl (190.794 nm)	-0.0006 u	> 100.00	-4.9930
	Continuing Calibration Blank1	V (292.401 nm)	0.0001 u	> 100.00	-70.6795

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank1	Y (360.074 nm)	0.99	0.37	486316.88
	Continuing Calibration Blank1	Y_R (360.074 nm)	0.99	0.37	485692.56
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0007	2.25	-11.3229
2/21/2024 19:41:08	PBW-434254	Ag (328.068 nm)	-0.0001 u	87.49	-279.9819
	PBW-434254	Al (237.312 nm)	-0.0008 u	39.03	84.0966
	PBW-434254	As (188.980 nm)	0.0027	66.24	-8.8136
	PBW-434254	B (249.772 nm)	0.0009	10.97	100.2170
	PBW-434254	Ba (230.424 nm)	0.0000 u	> 100.00	-14.8500
	PBW-434254	Be (313.107 nm)	0.0000	38.18	-216.6297
	PBW-434254	Ca (317.933 nm)	0.0058	0.79	2880.2430
	PBW-434254	Cd (214.439 nm)	0.0001	43.21	-13.6165
	PBW-434254	Co (230.786 nm)	-0.0005 u	47.31	40.6490
	PBW-434254	Cr (267.716 nm)	0.0001	84.57	-68.3622
	PBW-434254	Cu (327.395 nm)	0.0001 u	> 100.00	-31.0028
	PBW-434254	Fe (234.350 nm)	0.0033	6.77	104.4970
	PBW-434254	K (766.491 nm)	0.0466	67.09	-285.4191
	PBW-434254	Mg (279.078 nm)	0.0014	74.77	-10.5927
	PBW-434254	Mn (257.610 nm)	0.0001	10.83	-16.5682
	PBW-434254	Mo (202.032 nm)	0.0010	79.43	-5.4653
	PBW-434254	Na (588.995 nm)	0.0390	8.27	-15596.9092
	PBW-434254	Ni (230.299 nm)	-0.0003 u	25.04	73.8239
	PBW-434254	Pb (220.353 nm)	0.0003 u	> 100.00	-13.9121
	PBW-434254	Sb (217.582 nm)	0.0072	33.11	34.5165
	PBW-434254	Se (196.026 nm)	0.0005 u	> 100.00	-6.2566
	PBW-434254	Sn (189.925 nm)	0.0005 u	> 100.00	7.4605
	PBW-434254	Sr (216.596 nm)	0.0002	90.70	-49.6092
	PBW-434254	Ti (336.122 nm)	0.0008	65.33	-35.5378
	PBW-434254	Tl (190.794 nm)	-0.0039 u	28.24	-9.1699
	PBW-434254	V (292.401 nm)	0.0001 u	> 100.00	-70.8701
	PBW-434254	Y (360.074 nm)	1.00	0.39	491998.28
	PBW-434254	Y_R (360.074 nm)	1.00	0.39	491389.22
	PBW-434254	Zn (213.857 nm)	0.0007	3.72	-14.2437
2/21/2024 19:44:22	LCSW-434254	Ag (328.068 nm)	0.0513	0.10	2868.3337
	LCSW-434254	Al (237.312 nm)	1.9471	0.08	5082.8070
	LCSW-434254	As (188.980 nm)	0.0378	3.00	56.2913
	LCSW-434254	B (249.772 nm)	0.9764	0.14	33147.2136
	LCSW-434254	Ba (230.424 nm)	2.0318	0.28	99439.0910
	LCSW-434254	Be (313.107 nm)	0.0484	0.11	55163.4652
	LCSW-434254	Ca (317.933 nm)	2.0072	0.04	83446.7234
	LCSW-434254	Cd (214.439 nm)	0.0513	0.38	3264.7589
	LCSW-434254	Co (230.786 nm)	0.5124	0.12	8344.9793
	LCSW-434254	Cr (267.716 nm)	0.1993	0.10	9071.3321
	LCSW-434254	Cu (327.395 nm)	0.2497	0.16	9653.2955
	LCSW-434254	Fe (234.350 nm)	0.9957	0.04	22444.4481
	LCSW-434254	K (766.491 nm)	18.5940	0.23	19607.6824
	LCSW-434254	Mg (279.078 nm)	1.9436	0.04	6445.6162
	LCSW-434254	Mn (257.610 nm)	0.4908	0.01	166255.2545
	LCSW-434254	Mo (202.032 nm)	0.4863	0.53	4016.3004
	LCSW-434254	Na (588.995 nm)	19.3047	0.26	231921.7846
	LCSW-434254	Ni (230.299 nm)	0.5259	0.38	6457.6097
	LCSW-434254	Pb (220.353 nm)	0.5113	0.01	2932.7476
	LCSW-434254	Sb (217.582 nm)	0.4896	0.73	1221.8402
	LCSW-434254	Se (196.026 nm)	0.9843	0.28	812.9602
	LCSW-434254	Sn (189.925 nm)	4.9597	0.19	15113.3715
	LCSW-434254	Sr (216.596 nm)	2.0061	0.13	40174.3806
	LCSW-434254	Ti (336.122 nm)	0.4918	0.15	65992.0688
	LCSW-434254	Tl (190.794 nm)	2.0120	0.20	2566.3596

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	LCSW-434254	V (292.401 nm)	0.4879	0.13	20140.9850
	LCSW-434254	Y (360.074 nm)	0.98	0.29	480392.77
	LCSW-434254	Y_R (360.074 nm)	0.97	0.29	479892.22
	LCSW-434254	Zn (213.857 nm)	0.5069	0.10	29765.9592
2/21/2024 19:47:35	R2401280-002	Ag (328.068 nm)	0.0000 u	> 100.00	-275.2471
	R2401280-002	Al (237.312 nm)	0.0021	61.92	91.4275
	R2401280-002	As (188.980 nm)	0.0006 u	> 100.00	-12.7529
	R2401280-002	B (249.772 nm)	0.0505	0.49	1782.7550
	R2401280-002	Ba (230.424 nm)	0.0411	0.56	1996.0476
	R2401280-002	Be (313.107 nm)	0.0000	44.27	-217.5749
	R2401280-002	Ca (317.933 nm)	96.8243 o	0.05	3900296.6689
	R2401280-002	Cd (214.439 nm)	0.0001	46.25	-12.9231
	R2401280-002	Co (230.786 nm)	0.0008	22.77	62.2012
	R2401280-002	Cr (267.716 nm)	0.0013	4.06	-11.7269
	R2401280-002	Cu (327.395 nm)	-0.0001 u	> 100.00	-38.4424
	R2401280-002	Fe (234.350 nm)	6.2308	0.03	140297.1592
	R2401280-002	K (766.491 nm)	2.6659	0.22	2523.9121
	R2401280-002	Mg (279.078 nm)	20.0881	0.16	66758.3735
	R2401280-002	Mn (257.610 nm)	0.3618	0.09	122539.9828
	R2401280-002	Mo (202.032 nm)	0.0038	17.86	17.9564
	R2401280-002	Na (588.995 nm)	51.8266	0.40	649752.4874
	R2401280-002	Ni (230.299 nm)	0.0028	12.67	110.9594
	R2401280-002	Pb (220.353 nm)	-0.0002 u	> 100.00	-17.2614
	R2401280-002	Sb (217.582 nm)	0.0076	18.95	35.4828
	R2401280-002	Se (196.026 nm)	0.0067	75.32	-1.0477
	R2401280-002	Sn (189.925 nm)	0.0025	6.26	13.6276
	R2401280-002	Sr (216.596 nm)	0.1919	0.14	3795.2450
	R2401280-002	Ti (336.122 nm)	0.0020	26.19	126.0554
	R2401280-002	Tl (190.794 nm)	-0.0005 u	> 100.00	-4.8188
	R2401280-002	V (292.401 nm)	0.0002 u	> 100.00	-65.4642
	R2401280-002	Y (360.074 nm)	0.94	0.45	465309.99
	R2401280-002	Y_R (360.074 nm)	0.94	0.45	464904.69
	R2401280-002	Zn (213.857 nm)	0.0027	2.45	104.6152
2/21/2024 19:50:49	R2401280-003	Ag (328.068 nm)	0.0002	46.15	-264.4740
	R2401280-003	Al (237.312 nm)	0.0009 u	> 100.00	88.4416
	R2401280-003	As (188.980 nm)	0.0054	20.97	-3.8491
	R2401280-003	B (249.772 nm)	0.0696	0.20	2427.3408
	R2401280-003	Ba (230.424 nm)	0.2001	0.19	9781.7708
	R2401280-003	Be (313.107 nm)	0.0000	31.38	-212.7299
	R2401280-003	Ca (317.933 nm)	48.4009	0.07	1951017.9744
	R2401280-003	Cd (214.439 nm)	0.0004	18.35	5.7544
	R2401280-003	Co (230.786 nm)	0.0038	4.06	110.7742
	R2401280-003	Cr (267.716 nm)	-0.0003 u	28.43	-86.3280
	R2401280-003	Cu (327.395 nm)	0.0050	0.50	160.2576
	R2401280-003	Fe (234.350 nm)	3.6670	0.02	82580.1592
	R2401280-003	K (766.491 nm)	1.2197	4.52	972.8085
	R2401280-003	Mg (279.078 nm)	5.9863	0.03	19883.3934
	R2401280-003	Mn (257.610 nm)	2.8995 o	0.05	982373.8324
	R2401280-003	Mo (202.032 nm)	0.0004	45.56	-9.9375
	R2401280-003	Na (588.995 nm)	4.6816	0.37	44048.7020
	R2401280-003	Ni (230.299 nm)	0.0016	23.82	96.8759
	R2401280-003	Pb (220.353 nm)	0.0009	58.92	-10.7455
	R2401280-003	Sb (217.582 nm)	0.0048	38.70	28.5528
	R2401280-003	Se (196.026 nm)	0.0044	69.90	-3.0070
	R2401280-003	Sn (189.925 nm)	0.0013	76.91	9.8303
	R2401280-003	Sr (216.596 nm)	0.1301	0.30	2555.4612
	R2401280-003	Ti (336.122 nm)	0.0007	37.48	-53.0028

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401280-003	Tl (190.794 nm)	-0.0015 u	> 100.00	-6.0843
	R2401280-003	V (292.401 nm)	0.0003	32.64	-62.4974
	R2401280-003	Y (360.074 nm)	0.98	0.44	482480.21
	R2401280-003	Y_R (360.074 nm)	0.98	0.44	481998.26
	R2401280-003	Zn (213.857 nm)	0.0347	0.16	1988.2563
2/21/2024 19:54:03	R2401280-004	Ag (328.068 nm)	0.0000 u	> 100.00	-273.9331
	R2401280-004	Al (237.312 nm)	0.0032	67.42	94.3463
	R2401280-004	As (188.980 nm)	0.0000 u	> 100.00	-13.9560
	R2401280-004	B (249.772 nm)	0.0011	12.29	109.2053
	R2401280-004	Ba (230.424 nm)	0.0001	62.91	-10.5193
	R2401280-004	Be (313.107 nm)	0.0000	80.80	-220.8113
	R2401280-004	Ca (317.933 nm)	0.0222	1.52	3539.9142
	R2401280-004	Cd (214.439 nm)	0.0000 u	> 100.00	-15.6887
	R2401280-004	Co (230.786 nm)	-0.0002 u	> 100.00	46.5801
	R2401280-004	Cr (267.716 nm)	0.0004	34.56	-50.6789
	R2401280-004	Cu (327.395 nm)	0.0008	13.96	-1.6599
	R2401280-004	Fe (234.350 nm)	0.0105	3.86	267.4243
	R2401280-004	K (766.491 nm)	0.0216	85.12	-312.2619
	R2401280-004	Mg (279.078 nm)	0.0019	60.67	-8.8182
	R2401280-004	Mn (257.610 nm)	0.0004	1.80	88.6748
	R2401280-004	Mo (202.032 nm)	0.0005	46.03	-9.6327
	R2401280-004	Na (588.995 nm)	0.0555	8.94	-15385.3774
	R2401280-004	Ni (230.299 nm)	0.0001 u	> 100.00	77.9593
	R2401280-004	Pb (220.353 nm)	0.0008	68.44	-11.3941
	R2401280-004	Sb (217.582 nm)	0.0077	11.30	35.7073
	R2401280-004	Se (196.026 nm)	-0.0005 u	> 100.00	-7.0686
	R2401280-004	Sn (189.925 nm)	0.0009	48.36	8.7798
	R2401280-004	Sr (216.596 nm)	0.0001 u	> 100.00	-51.4039
	R2401280-004	Ti (336.122 nm)	-0.0001 u	> 100.00	-152.8404
	R2401280-004	Tl (190.794 nm)	-0.0022 u	53.69	-6.9278
	R2401280-004	V (292.401 nm)	0.0000 u	> 100.00	-72.0902
	R2401280-004	Y (360.074 nm)	1.00	0.48	492520.94
	R2401280-004	Y_R (360.074 nm)	1.00	0.48	492001.05
	R2401280-004	Zn (213.857 nm)	0.0058	1.87	287.9275
2/21/2024 19:57:17	R2401280-006	Ag (328.068 nm)	0.0001 u	92.97	-266.4339
	R2401280-006	Al (237.312 nm)	0.0043	35.44	97.2101
	R2401280-006	As (188.980 nm)	0.0002 u	> 100.00	-13.4526
	R2401280-006	B (249.772 nm)	0.0239	0.15	881.8980
	R2401280-006	Ba (230.424 nm)	0.0323	0.63	1568.2438
	R2401280-006	Be (313.107 nm)	0.0000	26.66	-210.4138
	R2401280-006	Ca (317.933 nm)	66.6066 o	0.08	2683885.0269
	R2401280-006	Cd (214.439 nm)	0.0000 u	> 100.00	-16.3965
	R2401280-006	Co (230.786 nm)	0.0000 u	> 100.00	49.1623
	R2401280-006	Cr (267.716 nm)	0.0005	10.34	-46.2522
	R2401280-006	Cu (327.395 nm)	0.0333	0.33	1258.8302
	R2401280-006	Fe (234.350 nm)	0.0065	4.81	176.5639
	R2401280-006	K (766.491 nm)	1.1983	2.08	949.8366
	R2401280-006	Mg (279.078 nm)	11.7620	0.08	39082.0602
	R2401280-006	Mn (257.610 nm)	0.0111	0.25	3722.8107
	R2401280-006	Mo (202.032 nm)	-0.0001 u	> 100.00	-14.3103
	R2401280-006	Na (588.995 nm)	23.5613	0.51	286609.5631
	R2401280-006	Ni (230.299 nm)	-0.0014 u	28.26	60.5350
	R2401280-006	Pb (220.353 nm)	0.0031	18.93	1.8637
	R2401280-006	Sb (217.582 nm)	0.0057	17.33	30.8587
	R2401280-006	Se (196.026 nm)	0.0000 u	> 100.00	-6.5988
	R2401280-006	Sn (189.925 nm)	0.0014	41.19	10.2344
	R2401280-006	Sr (216.596 nm)	0.1183	0.16	2318.1301

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401280-006	Ti (336.122 nm)	0.0004	23.38	-91.1894
	R2401280-006	Tl (190.794 nm)	-0.0016 u	64.81	-6.2093
	R2401280-006	V (292.401 nm)	0.0002	78.27	-66.4880
	R2401280-006	Y (360.074 nm)	0.96	0.27	472498.54
	R2401280-006	Y_R (360.074 nm)	0.96	0.28	472049.35
	R2401280-006	Zn (213.857 nm)	0.0228	0.25	1288.6962
2/21/2024 20:00:31	R2401280-008	Ag (328.068 nm)	0.0000 u	> 100.00	-274.2875
	R2401280-008	Al (237.312 nm)	0.0049	42.20	98.6448
	R2401280-008	As (188.980 nm)	-0.0004 u	> 100.00	-14.7154
	R2401280-008	B (249.772 nm)	0.1515	0.34	5202.8385
	R2401280-008	Ba (230.424 nm)	0.1043	0.14	5090.5177
	R2401280-008	Be (313.107 nm)	0.0000 u	> 100.00	-222.8891
	R2401280-008	Ca (317.933 nm)	62.7281 o	0.12	2527757.8957
	R2401280-008	Cd (214.439 nm)	0.0000	62.12	-15.1129
	R2401280-008	Co (230.786 nm)	-0.0002 u	> 100.00	46.6619
	R2401280-008	Cr (267.716 nm)	0.0006	23.07	-41.5770
	R2401280-008	Cu (327.395 nm)	0.0009	48.99	-0.1225
	R2401280-008	Fe (234.350 nm)	0.0063	2.27	173.2097
	R2401280-008	K (766.491 nm)	1.1267	1.49	873.0829
	R2401280-008	Mg (279.078 nm)	7.0185	0.07	23314.6951
	R2401280-008	Mn (257.610 nm)	0.0006	2.91	162.2348
	R2401280-008	Mo (202.032 nm)	-0.0003 u	> 100.00	-16.2163
	R2401280-008	Na (588.995 nm)	35.2273	0.96	436490.3461
	R2401280-008	Ni (230.299 nm)	0.0003 u	> 100.00	80.2644
	R2401280-008	Pb (220.353 nm)	0.0007	73.38	-11.9581
	R2401280-008	Sb (217.582 nm)	0.0043	44.20	27.3219
	R2401280-008	Se (196.026 nm)	0.0014 u	> 100.00	-5.5072
	R2401280-008	Sn (189.925 nm)	0.0008	75.16	8.2646
	R2401280-008	Sr (216.596 nm)	0.1317	0.13	2586.8768
	R2401280-008	Ti (336.122 nm)	0.0005	25.29	-68.9160
	R2401280-008	Tl (190.794 nm)	0.0003 u	> 100.00	-3.7737
	R2401280-008	V (292.401 nm)	0.0001 u	> 100.00	-71.4657
	R2401280-008	Y (360.074 nm)	0.96	0.30	474536.18
	R2401280-008	Y_R (360.074 nm)	0.96	0.30	474120.05
	R2401280-008	Zn (213.857 nm)	0.0040	2.23	180.0503
2/21/2024 20:03:45	R2401280-009	Ag (328.068 nm)	0.0002	62.02	-262.4898
	R2401280-009	Al (237.312 nm)	0.0060	22.34	101.5441
	R2401280-009	As (188.980 nm)	-0.0005 u	> 100.00	-14.7465
	R2401280-009	B (249.772 nm)	0.0351	0.35	1258.6238
	R2401280-009	Ba (230.424 nm)	0.0809	0.19	3944.9312
	R2401280-009	Be (313.107 nm)	0.0000 u	> 100.00	-227.5588
	R2401280-009	Ca (317.933 nm)	25.8602	0.08	1043644.3490
	R2401280-009	Cd (214.439 nm)	0.0001	19.09	-9.0886
	R2401280-009	Co (230.786 nm)	-0.0003 u	61.62	45.2189
	R2401280-009	Cr (267.716 nm)	0.0011	6.17	-21.9406
	R2401280-009	Cu (327.395 nm)	0.0009	9.74	0.6186
	R2401280-009	Fe (234.350 nm)	0.0073	3.86	193.7160
	R2401280-009	K (766.491 nm)	0.6316	4.76	342.0413
	R2401280-009	Mg (279.078 nm)	6.8032	0.13	22598.9667
	R2401280-009	Mn (257.610 nm)	0.0007	2.96	196.8304
	R2401280-009	Mo (202.032 nm)	-0.0003 u	56.83	-15.8867
	R2401280-009	Na (588.995 nm)	3.2275	0.20	25367.0153
	R2401280-009	Ni (230.299 nm)	-0.0009 u	42.71	66.0659
	R2401280-009	Pb (220.353 nm)	0.0023	28.42	-2.7742
	R2401280-009	Sb (217.582 nm)	0.0020	74.16	21.7595
	R2401280-009	Se (196.026 nm)	0.0007 u	> 100.00	-6.0120
	R2401280-009	Sn (189.925 nm)	0.0011 u	> 100.00	9.2196

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401280-009	Sr (216.596 nm)	0.0869	0.48	1688.9347
	R2401280-009	Ti (336.122 nm)	0.0000 u	> 100.00	-139.9035
	R2401280-009	Tl (190.794 nm)	-0.0028 u	59.17	-7.7080
	R2401280-009	V (292.401 nm)	0.0005	6.01	-55.4103
	R2401280-009	Y (360.074 nm)	0.99	0.46	487202.34
	R2401280-009	Y_R (360.074 nm)	0.99	0.46	486647.06
	R2401280-009	Zn (213.857 nm)	0.0036	0.62	155.7910
2/21/2024 20:06:58	R2401280-010	Ag (328.068 nm)	0.0001	76.10	-266.1324
	R2401280-010	Al (237.312 nm)	0.0035	83.33	95.0748
	R2401280-010	As (188.980 nm)	0.0019	86.75	-10.4264
	R2401280-010	B (249.772 nm)	0.0166	0.46	632.2704
	R2401280-010	Ba (230.424 nm)	0.2898	0.16	14169.3051
	R2401280-010	Be (313.107 nm)	0.0000	86.06	-216.4090
	R2401280-010	Ca (317.933 nm)	86.3748 o	0.05	3479651.2151
	R2401280-010	Cd (214.439 nm)	0.0001	99.04	-12.1879
	R2401280-010	Co (230.786 nm)	0.0001 u	> 100.00	51.8569
	R2401280-010	Cr (267.716 nm)	0.0008	22.15	-35.9332
	R2401280-010	Cu (327.395 nm)	0.0011	17.70	8.4267
	R2401280-010	Fe (234.350 nm)	0.2252	0.12	5100.7579
	R2401280-010	K (766.491 nm)	1.3951	2.23	1160.9544
	R2401280-010	Mg (279.078 nm)	17.7324	0.12	58928.0549
	R2401280-010	Mn (257.610 nm)	0.7671	0.08	259876.1502
	R2401280-010	Mo (202.032 nm)	0.0000 u	> 100.00	-13.2724
	R2401280-010	Na (588.995 nm)	4.5394	0.13	42222.2856
	R2401280-010	Ni (230.299 nm)	-0.0017 u	4.45	56.4477
	R2401280-010	Pb (220.353 nm)	-0.0003 u	> 100.00	-17.7576
	R2401280-010	Sb (217.582 nm)	0.0014 u	> 100.00	20.2762
	R2401280-010	Se (196.026 nm)	0.0014	> 100.00	-5.4585
	R2401280-010	Sn (189.925 nm)	0.0001 u	> 100.00	6.3363
	R2401280-010	Sr (216.596 nm)	0.1349	0.13	2651.6909
	R2401280-010	Ti (336.122 nm)	0.0003	15.44	-109.0473
	R2401280-010	Tl (190.794 nm)	-0.0011 u	> 100.00	-5.5836
	R2401280-010	V (292.401 nm)	-0.0001 u	> 100.00	-77.4507
	R2401280-010	Y (360.074 nm)	0.96	0.53	475149.85
	R2401280-010	Y_R (360.074 nm)	0.96	0.53	474486.28
	R2401280-010	Zn (213.857 nm)	0.0029	2.00	116.6338
2/21/2024 20:10:11	R2401280-011	Ag (328.068 nm)	-0.0019 u	5.47	-392.5025
	R2401280-011	Al (237.312 nm)	-0.3052 u	0.44	-697.1434
	R2401280-011	As (188.980 nm)	0.0181	10.06	19.7308
	R2401280-011	B (249.772 nm)	0.0603	0.24	2113.5015
	R2401280-011	Ba (230.424 nm)	0.2452	0.05	11987.9879
	R2401280-011	Be (313.107 nm)	0.0001	15.04	-160.3834
	R2401280-011	Ca (317.933 nm)	75.5026 o	0.07	3041994.9653
	R2401280-011	Cd (214.439 nm)	-0.0001 u	54.50	-25.7713
	R2401280-011	Co (230.786 nm)	0.1298	0.52	2151.0254
	R2401280-011	Cr (267.716 nm)	-0.0523 u	0.15	-2470.4661
	R2401280-011	Cu (327.395 nm)	0.0012	28.79	10.2125
	R2401280-011	Fe (234.350 nm)	42.3299 o	0.04	952949.5269
	R2401280-011	K (766.491 nm)	0.3465	4.58	36.2962
	R2401280-011	Mg (279.078 nm)	17.3036	0.13	57502.5145
	R2401280-011	Mn (257.610 nm)	79.8618 o LR	0.05	27059032.3346
	R2401280-011	Mo (202.032 nm)	-0.0003 u	> 100.00	-15.9377
	R2401280-011	Na (588.995 nm)	1.0746	0.43	-2292.6107
	R2401280-011	Ni (230.299 nm)	0.0466	0.56	642.4159
	R2401280-011	Pb (220.353 nm)	0.0135	4.83	62.2279
	R2401280-011	Sb (217.582 nm)	0.0002 u	> 100.00	17.4063
	R2401280-011	Se (196.026 nm)	0.0615	6.19	44.5405

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401280-011	Sn (189.925 nm)	0.0008	57.68	8.4730
	R2401280-011	Sr (216.596 nm)	0.1462	0.40	2878.7650
	R2401280-011	Ti (336.122 nm)	-0.0003 u	41.37	-180.2400
	R2401280-011	Tl (190.794 nm)	-0.0043 u	31.72	-9.6743
	R2401280-011	V (292.401 nm)	0.0008	36.54	-40.1132
	R2401280-011	Y (360.074 nm)	0.96	0.49	472301.31
	R2401280-011	Y_R (360.074 nm)	0.96	0.49	471718.27
	R2401280-011	Zn (213.857 nm)	0.0101	0.02	539.4250
2/21/2024 20:13:25	Continuing Calibration Verification1	Ag (328.068 nm)	0.5215	0.14	31672.9402
	Continuing Calibration Verification1	Al (237.312 nm)	10.1656	0.29	26172.7118
	Continuing Calibration Verification1	As (188.980 nm)	0.9915	0.25	1826.1678
	Continuing Calibration Verification1	B (249.772 nm)	2.4757	0.07	83940.1581
	Continuing Calibration Verification1	Ba (230.424 nm)	10.4498	0.14	511494.5353
	Continuing Calibration Verification1	Be (313.107 nm)	0.2483	0.08	283700.2920
	Continuing Calibration Verification1	Ca (317.933 nm)	26.2343	0.09	1058704.9181
	Continuing Calibration Verification1	Cd (214.439 nm)	0.5173	0.11	33096.1533
	Continuing Calibration Verification1	Co (230.786 nm)	2.5895	0.08	41973.0286
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5204	0.06	23805.4434
	Continuing Calibration Verification1	Cu (327.395 nm)	1.2627	0.29	48962.2366
	Continuing Calibration Verification1	Fe (234.350 nm)	5.1431	0.07	115810.9764
	Continuing Calibration Verification1	K (766.491 nm)	24.3816	0.42	25815.2160
	Continuing Calibration Verification1	Mg (279.078 nm)	25.5383	0.10	84874.9881
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7634	0.13	258614.3770
	Continuing Calibration Verification1	Mo (202.032 nm)	2.5965	0.34	21505.0504
	Continuing Calibration Verification1	Na (588.995 nm)	25.1754	0.37	307347.4502
	Continuing Calibration Verification1	Ni (230.299 nm)	2.1292	0.12	25908.9340
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5186	0.16	2975.0273
	Continuing Calibration Verification1	Sb (217.582 nm)	5.0445	0.46	12432.3108
	Continuing Calibration Verification1	Se (196.026 nm)	0.4924	0.88	403.3854
	Continuing Calibration Verification1	Sn (189.925 nm)	5.1540	0.11	15705.2191
	Continuing Calibration Verification1	Sr (216.596 nm)	2.5450	0.18	50980.8226
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5608	0.17	344197.3285
	Continuing Calibration Verification1	Tl (190.794 nm)	1.0478	0.31	1334.5019
	Continuing Calibration Verification1	V (292.401 nm)	2.5561	0.12	105831.5210
	Continuing Calibration Verification1	Y (360.074 nm)	0.95	0.47	466744.52
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.95	0.47	466168.47
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9968	0.06	58589.6009
2/21/2024 20:16:38	Continuing Calibration Blank1	Ag (328.068 nm)	0.0001 u	> 100.00	-269.0579
	Continuing Calibration Blank1	Al (237.312 nm)	-0.0013 u	54.99	82.7482
	Continuing Calibration Blank1	As (188.980 nm)	0.0028	55.10	-8.6427
	Continuing Calibration Blank1	B (249.772 nm)	0.0007	35.52	94.2891
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0002	23.44	-2.1130
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000 u	> 100.00	-225.8767
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0006	29.38	2669.0665
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000 u	> 100.00	-15.4001
	Continuing Calibration Blank1	Co (230.786 nm)	-0.0001 u	> 100.00	48.4696
	Continuing Calibration Blank1	Cr (267.716 nm)	-0.0001 u	16.83	-77.7063
	Continuing Calibration Blank1	Cu (327.395 nm)	-0.0001 u	> 100.00	-39.2167
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0024	21.39	84.1276
	Continuing Calibration Blank1	K (766.491 nm)	0.0436	13.02	-288.6441
	Continuing Calibration Blank1	Mg (279.078 nm)	-0.0009 u	57.60	-18.2483
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0001	1.24	-11.5886
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0053	7.73	30.2538
	Continuing Calibration Blank1	Na (588.995 nm)	0.0070 u	95.85	-16008.8433
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0007	26.10	85.4019
	Continuing Calibration Blank1	Pb (220.353 nm)	0.0004	74.31	-13.3369
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0078	18.35	35.9726

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank1	Se (196.026 nm)	-0.0015 u	> 100.00	-7.8830
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0013	11.32	9.8444
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0001 u	> 100.00	-51.1452
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0032	29.65	292.9790
	Continuing Calibration Blank1	Tl (190.794 nm)	-0.0017 u	> 100.00	-6.4019
	Continuing Calibration Blank1	V (292.401 nm)	0.0002	38.70	-65.0723
	Continuing Calibration Blank1	Y (360.074 nm)	1.00	0.31	490494.16
	Continuing Calibration Blank1	Y_R (360.074 nm)	0.99	0.31	489766.67
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0008	9.31	-5.6242
2/21/2024 20:19:52	R2401280-012	Ag (328.068 nm)	-0.0001 u	82.08	-278.1622
	R2401280-012	Al (237.312 nm)	-0.0009 u	> 100.00	83.8567
	R2401280-012	As (188.980 nm)	0.0001 u	> 100.00	-13.7834
	R2401280-012	B (249.772 nm)	0.0010	15.73	105.7496
	R2401280-012	Ba (230.424 nm)	0.0001	43.94	-11.2390
	R2401280-012	Be (313.107 nm)	0.0000	44.10	-209.5293
	R2401280-012	Ca (317.933 nm)	0.0069	1.17	2924.5488
	R2401280-012	Cd (214.439 nm)	0.0001	55.46	-11.8273
	R2401280-012	Co (230.786 nm)	-0.0005 u	7.50	40.5862
	R2401280-012	Cr (267.716 nm)	0.0003	18.75	-57.5759
	R2401280-012	Cu (327.395 nm)	0.0001 u	> 100.00	-30.3141
	R2401280-012	Fe (234.350 nm)	0.0040	12.89	120.5059
	R2401280-012	K (766.491 nm)	0.0279	78.20	-305.4583
	R2401280-012	Mg (279.078 nm)	-0.0001 u	> 100.00	-15.5527
	R2401280-012	Mn (257.610 nm)	0.0001	8.94	0.9041
	R2401280-012	Mo (202.032 nm)	0.0008	55.27	-7.0767
	R2401280-012	Na (588.995 nm)	0.0258	13.12	-15766.8564
	R2401280-012	Ni (230.299 nm)	-0.0006 u	19.12	70.1626
	R2401280-012	Pb (220.353 nm)	0.0001 u	> 100.00	-15.2545
	R2401280-012	Sb (217.582 nm)	0.0063	28.86	32.4402
	R2401280-012	Se (196.026 nm)	-0.0024 u	> 100.00	-8.5929
	R2401280-012	Sn (189.925 nm)	0.0008	89.82	8.3114
	R2401280-012	Sr (216.596 nm)	0.0001 u	> 100.00	-50.6833
	R2401280-012	Ti (336.122 nm)	0.0008	55.71	-29.1927
	R2401280-012	Tl (190.794 nm)	-0.0028 u	61.44	-7.7309
	R2401280-012	V (292.401 nm)	0.0002 u	> 100.00	-64.7153
	R2401280-012	Y (360.074 nm)	1.01	0.37	495116.97
	R2401280-012	Y_R (360.074 nm)	1.00	0.37	494366.21
	R2401280-012	Zn (213.857 nm)	0.0005	6.02	-27.0799
2/21/2024 20:23:05	R2401280-013	Ag (328.068 nm)	0.0003	42.79	-256.9290
	R2401280-013	Al (237.312 nm)	0.0175	8.48	131.1508
	R2401280-013	As (188.980 nm)	0.0016	79.49	-10.8715
	R2401280-013	B (249.772 nm)	0.1117	0.28	3856.4693
	R2401280-013	Ba (230.424 nm)	0.0846	0.23	4125.1683
	R2401280-013	Be (313.107 nm)	0.0000	4.90	-182.5646
	R2401280-013	Ca (317.933 nm)	39.7774	0.06	1603879.8497
	R2401280-013	Cd (214.439 nm)	0.0002	33.92	-4.1568
	R2401280-013	Co (230.786 nm)	0.0032	3.31	101.7531
	R2401280-013	Cr (267.716 nm)	0.0009	20.85	-32.0929
	R2401280-013	Cu (327.395 nm)	0.0037	8.14	110.3237
	R2401280-013	Fe (234.350 nm)	5.4852	0.01	123512.6288
	R2401280-013	K (766.491 nm)	1.1157	2.29	861.3112
	R2401280-013	Mg (279.078 nm)	7.0031	0.07	23263.5119
	R2401280-013	Mn (257.610 nm)	1.1746	0.04	397963.2855
	R2401280-013	Mo (202.032 nm)	0.0003 u	> 100.00	-11.1048
	R2401280-013	Na (588.995 nm)	9.0253	0.23	99855.4989
	R2401280-013	Ni (230.299 nm)	0.0047	7.90	134.4696
	R2401280-013	Pb (220.353 nm)	0.0006 u	> 100.00	-12.3412

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401280-013	Sb (217.582 nm)	0.0045	8.18	28.0260
	R2401280-013	Se (196.026 nm)	-0.0017 u	> 100.00	-8.0258
	R2401280-013	Sn (189.925 nm)	0.0003	> 100.00	6.9867
	R2401280-013	Sr (216.596 nm)	0.1183	0.30	2319.9459
	R2401280-013	Ti (336.122 nm)	0.0011	29.22	1.6252
	R2401280-013	Tl (190.794 nm)	-0.0027 u	71.24	-7.5691
	R2401280-013	V (292.401 nm)	0.0011	12.53	-28.0834
	R2401280-013	Y (360.074 nm)	0.98	0.33	482710.79
	R2401280-013	Y_R (360.074 nm)	0.98	0.33	482019.70
	R2401280-013	Zn (213.857 nm)	0.0075	0.21	385.0551
2/21/2024 20:26:18	R2401280-014	Ag (328.068 nm)	0.0001 u	95.29	-266.4053
	R2401280-014	Al (237.312 nm)	0.0633	4.97	248.4706
	R2401280-014	As (188.980 nm)	0.0005 u	> 100.00	-12.9558
	R2401280-014	B (249.772 nm)	0.2207	0.13	7547.4303
	R2401280-014	Ba (230.424 nm)	0.1152	0.32	5622.8592
	R2401280-014	Be (313.107 nm)	0.0000	29.05	-189.7466
	R2401280-014	Ca (317.933 nm)	55.3457 o	0.13	2230581.6898
	R2401280-014	Cd (214.439 nm)	0.0002	44.07	-6.3940
	R2401280-014	Co (230.786 nm)	0.0010	5.21	65.6674
	R2401280-014	Cr (267.716 nm)	0.0005	14.84	-46.4917
	R2401280-014	Cu (327.395 nm)	0.0033	6.54	93.5513
	R2401280-014	Fe (234.350 nm)	0.0610	1.08	1403.3606
	R2401280-014	K (766.491 nm)	2.9115	1.75	2787.3459
	R2401280-014	Mg (279.078 nm)	5.9568	0.21	19785.4006
	R2401280-014	Mn (257.610 nm)	0.2383	0.11	80695.1888
	R2401280-014	Mo (202.032 nm)	0.0002 u	> 100.00	-11.9625
	R2401280-014	Na (588.995 nm)	23.7180	0.30	288623.3442
	R2401280-014	Ni (230.299 nm)	0.0013	34.83	92.5306
	R2401280-014	Pb (220.353 nm)	0.0013	11.21	-8.6310
	R2401280-014	Sb (217.582 nm)	0.0026	85.18	23.2873
	R2401280-014	Se (196.026 nm)	0.0007 u	> 100.00	-6.0136
	R2401280-014	Sn (189.925 nm)	0.0097	2.69	35.3544
	R2401280-014	Sr (216.596 nm)	0.1691	0.47	3336.9352
	R2401280-014	Ti (336.122 nm)	0.0008	13.83	-34.1895
	R2401280-014	Tl (190.794 nm)	-0.0026 u	49.81	-7.5515
	R2401280-014	V (292.401 nm)	0.0003	60.36	-63.0455
	R2401280-014	Y (360.074 nm)	0.97	0.48	477526.75
	R2401280-014	Y_R (360.074 nm)	0.97	0.49	476874.27
	R2401280-014	Zn (213.857 nm)	0.0135	0.79	738.3547
2/21/2024 20:29:32	R2401280-015	Ag (328.068 nm)	0.0001	46.96	-266.4314
	R2401280-015	Al (237.312 nm)	0.0171	14.97	129.9372
	R2401280-015	As (188.980 nm)	-0.0009 u	40.37	-15.5079
	R2401280-015	B (249.772 nm)	0.1106	0.15	3816.9479
	R2401280-015	Ba (230.424 nm)	0.0846	0.17	4127.3870
	R2401280-015	Be (313.107 nm)	0.0000	7.02	-182.3339
	R2401280-015	Ca (317.933 nm)	39.7142	0.06	1601336.6125
	R2401280-015	Cd (214.439 nm)	0.0002	42.67	-5.4869
	R2401280-015	Co (230.786 nm)	0.0031	12.83	100.2898
	R2401280-015	Cr (267.716 nm)	0.0009	11.34	-29.1618
	R2401280-015	Cu (327.395 nm)	0.0041	11.08	123.0842
	R2401280-015	Fe (234.350 nm)	5.4681	0.02	123127.9792
	R2401280-015	K (766.491 nm)	1.1233	1.30	869.4033
	R2401280-015	Mg (279.078 nm)	6.9826	0.06	23195.1178
	R2401280-015	Mn (257.610 nm)	1.1735	0.03	397588.1905
	R2401280-015	Mo (202.032 nm)	-0.0002 u	> 100.00	-15.1251
	R2401280-015	Na (588.995 nm)	9.0482	0.34	100150.1427
	R2401280-015	Ni (230.299 nm)	0.0049	6.87	137.1525

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401280-015	Pb (220.353 nm)	0.0004	45.68	-13.4507
	R2401280-015	Sb (217.582 nm)	0.0025	61.73	22.9954
	R2401280-015	Se (196.026 nm)	0.0046	79.36	-2.8277
	R2401280-015	Sn (189.925 nm)	0.0007	71.12	7.9958
	R2401280-015	Sr (216.596 nm)	0.1182	0.10	2317.9962
	R2401280-015	Ti (336.122 nm)	0.0007	27.73	-47.5866
	R2401280-015	Tl (190.794 nm)	-0.0037 u	31.07	-8.8758
	R2401280-015	V (292.401 nm)	0.0010	17.94	-32.4877
	R2401280-015	Y (360.074 nm)	0.98	0.34	482947.32
	R2401280-015	Y_R (360.074 nm)	0.98	0.34	482328.24
	R2401280-015	Zn (213.857 nm)	0.0082	0.93	431.0908
2/21/2024 20:32:46	R2401280-016	Ag (328.068 nm)	0.0000 u	> 100.00	-272.1453
	R2401280-016	Al (237.312 nm)	0.0016 u	> 100.00	90.3676
	R2401280-016	As (188.980 nm)	0.0028	33.94	-8.7651
	R2401280-016	B (249.772 nm)	0.1125	0.14	3883.3863
	R2401280-016	Ba (230.424 nm)	0.1751	0.27	8558.1778
	R2401280-016	Be (313.107 nm)	0.0000	42.60	-222.4705
	R2401280-016	Ca (317.933 nm)	114.7686 o	0.06	4622641.8339
	R2401280-016	Cd (214.439 nm)	0.0001	38.62	-9.5233
	R2401280-016	Co (230.786 nm)	0.0001 u	> 100.00	50.9312
	R2401280-016	Cr (267.716 nm)	-0.0005 u	9.25	-96.1485
	R2401280-016	Cu (327.395 nm)	0.0003 u	> 100.00	-24.6921
	R2401280-016	Fe (234.350 nm)	0.8333	0.03	18789.1494
	R2401280-016	K (766.491 nm)	1.9942	2.05	1803.4954
	R2401280-016	Mg (279.078 nm)	16.1564	0.11	53689.3117
	R2401280-016	Mn (257.610 nm)	1.1657	0.08	394925.3938
	R2401280-016	Mo (202.032 nm)	0.0013	10.45	-2.6913
	R2401280-016	Na (588.995 nm)	32.6240	0.40	403043.7610
	R2401280-016	Ni (230.299 nm)	-0.0019 u	27.58	54.6219
	R2401280-016	Pb (220.353 nm)	0.0011 u	99.59	-9.4024
	R2401280-016	Sb (217.582 nm)	0.0021	58.10	22.1372
	R2401280-016	Se (196.026 nm)	0.0030 u	> 100.00	-4.1494
	R2401280-016	Sn (189.925 nm)	0.0010	83.97	8.8873
	R2401280-016	Sr (216.596 nm)	0.2433	0.12	4825.2773
	R2401280-016	Ti (336.122 nm)	0.0006	21.60	-66.2371
	R2401280-016	Tl (190.794 nm)	0.0002 u	> 100.00	-3.9294
	R2401280-016	V (292.401 nm)	0.0001	68.11	-71.6356
	R2401280-016	Y (360.074 nm)	0.95	0.34	467429.37
	R2401280-016	Y_R (360.074 nm)	0.95	0.34	466905.60
	R2401280-016	Zn (213.857 nm)	0.0013	2.91	20.4975
2/21/2024 20:35:59	R2401280-017	Ag (328.068 nm)	-0.0002 u	6.39	-288.0744
	R2401280-017	Al (237.312 nm)	-0.0111 u	17.87	57.5877
	R2401280-017	As (188.980 nm)	0.0040	29.30	-6.4953
	R2401280-017	B (249.772 nm)	0.2881	0.16	9830.1461
	R2401280-017	Ba (230.424 nm)	0.3532	0.04	17272.1583
	R2401280-017	Be (313.107 nm)	0.0000	10.84	-191.2541
	R2401280-017	Ca (317.933 nm)	256.3843 o	0.09	10323362.3081
	R2401280-017	Cd (214.439 nm)	-0.0001 u	> 100.00	-21.1354
	R2401280-017	Co (230.786 nm)	0.0041	9.30	115.1347
	R2401280-017	Cr (267.716 nm)	-0.0059 u	1.83	-342.9064
	R2401280-017	Cu (327.395 nm)	0.0001 u	> 100.00	-30.9514
	R2401280-017	Fe (234.350 nm)	29.8484 o	0.11	671968.9801
	R2401280-017	K (766.491 nm)	2.2752	0.74	2104.8423
	R2401280-017	Mg (279.078 nm)	45.4049	0.04	150912.2500
	R2401280-017	Mn (257.610 nm)	12.9355 o LR	0.13	4382805.1467
	R2401280-017	Mo (202.032 nm)	-0.0006 u	30.05	-18.3839
	R2401280-017	Na (588.995 nm)	61.9292 o	0.33	779548.0643

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401280-017	Ni (230.299 nm)	-0.0001 u	> 100.00	76.0424
	R2401280-017	Pb (220.353 nm)	0.0024	61.23	-1.9700
	R2401280-017	Sb (217.582 nm)	0.0183	15.64	61.9090
	R2401280-017	Se (196.026 nm)	0.0066	62.13	-1.1369
	R2401280-017	Sn (189.925 nm)	0.0011	38.04	9.1936
	R2401280-017	Sr (216.596 nm)	0.3316	0.15	6595.3847
	R2401280-017	Ti (336.122 nm)	0.0021	7.92	140.4174
	R2401280-017	Tl (190.794 nm)	-0.0004 u	85.79	-4.6691
	R2401280-017	V (292.401 nm)	0.0009	20.69	-37.1518
	R2401280-017	Y (360.074 nm)	0.92	0.43	453574.43
	R2401280-017	Y_R (360.074 nm)	0.92	0.43	453055.82
	R2401280-017	Zn (213.857 nm)	0.0038	0.99	166.8715
2/21/2024 20:39:13	R2401280-018	Ag (328.068 nm)	0.0000 u	> 100.00	-275.0477
	R2401280-018	Al (237.312 nm)	-0.0012 u	> 100.00	83.1242
	R2401280-018	As (188.980 nm)	0.0759	3.69	126.9786
	R2401280-018	B (249.772 nm)	0.2627	0.06	8970.7640
	R2401280-018	Ba (230.424 nm)	0.7156	0.48	35013.9769
	R2401280-018	Be (313.107 nm)	0.0000	13.16	-200.1447
	R2401280-018	Ca (317.933 nm)	200.7640 o	0.05	8084371.8775
	R2401280-018	Cd (214.439 nm)	-0.0001 u	39.23	-22.9291
	R2401280-018	Co (230.786 nm)	0.0079	4.69	176.8435
	R2401280-018	Cr (267.716 nm)	-0.0015 u	9.16	-138.4453
	R2401280-018	Cu (327.395 nm)	0.0001 u	> 100.00	-30.2535
	R2401280-018	Fe (234.350 nm)	55.3078 o VR	0.06	1245105.4332
	R2401280-018	K (766.491 nm)	1.6892	1.51	1476.3728
	R2401280-018	Mg (279.078 nm)	34.9084	0.10	116021.3862
	R2401280-018	Mn (257.610 nm)	4.7391 o	0.05	1605671.5162
	R2401280-018	Mo (202.032 nm)	-0.0002 u	> 100.00	-15.2741
	R2401280-018	Na (588.995 nm)	39.1153	0.41	486442.3994
	R2401280-018	Ni (230.299 nm)	0.0057	10.16	146.7052
	R2401280-018	Pb (220.353 nm)	0.0000 u	> 100.00	-15.6983
	R2401280-018	Sb (217.582 nm)	-0.0006 u	> 100.00	15.3169
	R2401280-018	Se (196.026 nm)	0.0028	19.94	-4.2769
	R2401280-018	Sn (189.925 nm)	0.0007	42.26	7.9836
	R2401280-018	Sr (216.596 nm)	0.2922	0.08	5806.6760
	R2401280-018	Ti (336.122 nm)	0.0015	8.52	60.9999
	R2401280-018	Tl (190.794 nm)	0.0010	49.29	-2.8723
	R2401280-018	V (292.401 nm)	0.0014	1.37	-17.2109
	R2401280-018	Y (360.074 nm)	0.93	0.28	456967.88
	R2401280-018	Y_R (360.074 nm)	0.93	0.28	456481.96
	R2401280-018	Zn (213.857 nm)	0.0096	0.85	508.2240
2/21/2024 20:42:27	R2401280-018S	Ag (328.068 nm)	0.0525	0.19	2943.7737
	R2401280-018S	Al (237.312 nm)	2.0113	0.37	5247.3731
	R2401280-018S	As (188.980 nm)	0.1162	2.43	201.8130
	R2401280-018S	B (249.772 nm)	1.2883	0.21	43714.0092
	R2401280-018S	Ba (230.424 nm)	2.7278	0.23	133507.5250
	R2401280-018S	Be (313.107 nm)	0.0487	0.29	55418.1393
	R2401280-018S	Ca (317.933 nm)	200.1640 o	0.12	8060218.7958
	R2401280-018S	Cd (214.439 nm)	0.0492	0.17	3133.3964
	R2401280-018S	Co (230.786 nm)	0.5080	0.06	8274.3406
	R2401280-018S	Cr (267.716 nm)	0.1971	0.29	8971.6829
	R2401280-018S	Cu (327.395 nm)	0.2546	0.25	9846.3947
	R2401280-018S	Fe (234.350 nm)	55.6238 o	0.11	1252218.8317
	R2401280-018S	K (766.491 nm)	22.1433	0.29	23414.5259
	R2401280-018S	Mg (279.078 nm)	36.4427	0.09	121121.4783
	R2401280-018S	Mn (257.610 nm)	5.1586 o	0.09	1747814.3431
	R2401280-018S	Mo (202.032 nm)	0.4984	0.14	4116.7756

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401280-018S	Na (588.995 nm)	58.5808 o	0.35	736528.0484
	R2401280-018S	Ni (230.299 nm)	0.5162	0.24	6339.9152
	R2401280-018S	Pb (220.353 nm)	0.4945	0.18	2835.8381
	R2401280-018S	Sb (217.582 nm)	0.5078	1.28	1266.5806
	R2401280-018S	Se (196.026 nm)	1.0298	0.58	850.8274
	R2401280-018S	Sn (189.925 nm)	5.0001	0.11	15236.5881
	R2401280-018S	Sr (216.596 nm)	2.2594	0.22	45253.8269
	R2401280-018S	Ti (336.122 nm)	0.5036	0.25	67570.6806
	R2401280-018S	Tl (190.794 nm)	1.9366	0.27	2470.0829
	R2401280-018S	V (292.401 nm)	0.4980	0.17	20560.4106
	R2401280-018S	Y (360.074 nm)	0.92	0.52	454098.33
	R2401280-018S	Y_R (360.074 nm)	0.92	0.53	453655.91
	R2401280-018S	Zn (213.857 nm)	0.5129	0.22	30121.2596
2/21/2024 20:45:41	R2401280-018SD	Ag (328.068 nm)	0.0499	0.33	2779.6020
	R2401280-018SD	Al (237.312 nm)	1.9041	0.17	4972.2912
	R2401280-018SD	As (188.980 nm)	0.1106	0.87	191.2966
	R2401280-018SD	B (249.772 nm)	1.2190	0.14	41367.5451
	R2401280-018SD	Ba (230.424 nm)	2.5813	0.22	126337.3693
	R2401280-018SD	Be (313.107 nm)	0.0460	0.16	52317.4890
	R2401280-018SD	Ca (317.933 nm)	190.9705 o	0.09	7690139.2126
	R2401280-018SD	Cd (214.439 nm)	0.0468	0.16	2977.0922
	R2401280-018SD	Co (230.786 nm)	0.4817	0.29	7848.7900
	R2401280-018SD	Cr (267.716 nm)	0.1882	0.11	8564.5459
	R2401280-018SD	Cu (327.395 nm)	0.2399	0.22	9272.4211
	R2401280-018SD	Fe (234.350 nm)	53.0117 o	0.12	1193416.9629
	R2401280-018SD	K (766.491 nm)	20.9914	0.29	22178.9821
	R2401280-018SD	Mg (279.078 nm)	34.7601	0.10	115528.3691
	R2401280-018SD	Mn (257.610 nm)	4.9116 o	0.07	1664125.8808
	R2401280-018SD	Mo (202.032 nm)	0.4744	0.34	3918.4501
	R2401280-018SD	Na (588.995 nm)	55.7473 o	0.45	700124.5008
	R2401280-018SD	Ni (230.299 nm)	0.4899	0.33	6020.2018
	R2401280-018SD	Pb (220.353 nm)	0.4705	0.06	2697.8525
	R2401280-018SD	Sb (217.582 nm)	0.4823	0.53	1203.8035
	R2401280-018SD	Se (196.026 nm)	0.9806	0.12	809.8636
	R2401280-018SD	Sn (189.925 nm)	4.7363	0.18	14433.0845
	R2401280-018SD	Sr (216.596 nm)	2.1380	0.18	42818.5459
	R2401280-018SD	Ti (336.122 nm)	0.4779	0.16	64114.9654
	R2401280-018SD	Tl (190.794 nm)	1.8407	0.29	2347.5397
	R2401280-018SD	V (292.401 nm)	0.4718	0.10	19472.8549
	R2401280-018SD	Y (360.074 nm)	0.93	0.55	456304.04
	R2401280-018SD	Y_R (360.074 nm)	0.93	0.55	456149.58
	R2401280-018SD	Zn (213.857 nm)	0.4875	0.18	28626.0332
2/21/2024 20:48:55	R2401280-018A	Ag (328.068 nm)	0.0520	0.21	2908.3212
	R2401280-018A	Al (237.312 nm)	2.0137	0.15	5253.6271
	R2401280-018A	As (188.980 nm)	0.1174	2.01	203.9741
	R2401280-018A	B (249.772 nm)	1.2859	0.09	43634.4395
	R2401280-018A	Ba (230.424 nm)	2.7057	0.11	132429.4674
	R2401280-018A	Be (313.107 nm)	0.0484	0.06	55153.4545
	R2401280-018A	Ca (317.933 nm)	196.8295 o	0.05	7925990.5481
	R2401280-018A	Cd (214.439 nm)	0.0492	0.30	3134.1744
	R2401280-018A	Co (230.786 nm)	0.5085	0.15	8282.5845
	R2401280-018A	Cr (267.716 nm)	0.1983	0.06	9025.6930
	R2401280-018A	Cu (327.395 nm)	0.2535	0.13	9801.8056
	R2401280-018A	Fe (234.350 nm)	54.6692 o	0.06	1230728.2638
	R2401280-018A	K (766.491 nm)	22.1087	0.34	23377.3901
	R2401280-018A	Mg (279.078 nm)	35.8561	0.11	119171.4834
	R2401280-018A	Mn (257.610 nm)	5.0721 o	0.04	1718496.4261

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401280-018A	Mo (202.032 nm)	0.5023	0.62	4149.2045
	R2401280-018A	Na (588.995 nm)	57.8470 o	0.48	727101.1980
	R2401280-018A	Ni (230.299 nm)	0.5177	0.13	6357.4741
	R2401280-018A	Pb (220.353 nm)	0.4939	0.36	2832.7332
	R2401280-018A	Sb (217.582 nm)	0.5122	0.54	1277.5412
	R2401280-018A	Se (196.026 nm)	1.0432	0.56	862.0226
	R2401280-018A	Sn (189.925 nm)	5.0528	0.05	15397.0203
	R2401280-018A	Sr (216.596 nm)	2.2487	0.14	45039.6872
	R2401280-018A	Ti (336.122 nm)	0.5047	0.14	67726.1044
	R2401280-018A	Tl (190.794 nm)	1.9485	0.19	2485.2486
	R2401280-018A	V (292.401 nm)	0.4977	0.10	20546.3413
	R2401280-018A	Y (360.074 nm)	0.92	0.46	454072.20
	R2401280-018A	Y_R (360.074 nm)	0.92	0.45	453887.46
	R2401280-018A	Zn (213.857 nm)	0.5175	0.16	30390.5593
2/21/2024 20:52:09	Continuing Calibration Verification1	Ag (328.068 nm)	0.5173	0.47	31420.6262
	Continuing Calibration Verification1	Al (237.312 nm)	10.1546	0.47	26144.4515
	Continuing Calibration Verification1	As (188.980 nm)	0.9901	0.77	1823.5330
	Continuing Calibration Verification1	B (249.772 nm)	2.4556	0.35	83261.0585
	Continuing Calibration Verification1	Ba (230.424 nm)	10.3871	0.29	508423.6282
	Continuing Calibration Verification1	Be (313.107 nm)	0.2456	0.29	280670.3550
	Continuing Calibration Verification1	Ca (317.933 nm)	26.0402	0.27	1050892.2137
	Continuing Calibration Verification1	Cd (214.439 nm)	0.5145	0.33	32912.9352
	Continuing Calibration Verification1	Co (230.786 nm)	2.5756	0.39	41748.3620
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5174	0.32	23669.2347
	Continuing Calibration Verification1	Cu (327.395 nm)	1.2531	0.41	48589.0160
	Continuing Calibration Verification1	Fe (234.350 nm)	5.1126	0.31	115123.0811
	Continuing Calibration Verification1	K (766.491 nm)	24.3677	0.73	25800.3380
	Continuing Calibration Verification1	Mg (279.078 nm)	25.3389	0.38	84212.2406
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7573	0.35	256556.1671
	Continuing Calibration Verification1	Mo (202.032 nm)	2.5817	0.24	21382.4463
	Continuing Calibration Verification1	Na (588.995 nm)	25.1649	0.65	307212.1931
	Continuing Calibration Verification1	Ni (230.299 nm)	2.1208	0.36	25807.0493
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5165	0.35	2962.9208
	Continuing Calibration Verification1	Sb (217.582 nm)	5.0238	0.51	12381.5681
	Continuing Calibration Verification1	Se (196.026 nm)	0.4946	1.19	405.1923
	Continuing Calibration Verification1	Sn (189.925 nm)	5.1262	0.42	15620.4683
	Continuing Calibration Verification1	Sr (216.596 nm)	2.5305	0.10	50689.2196
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5424	0.34	341720.0605
	Continuing Calibration Verification1	Tl (190.794 nm)	1.0424	0.38	1327.6366
	Continuing Calibration Verification1	V (292.401 nm)	2.5355	0.37	104980.6465
	Continuing Calibration Verification1	Y (360.074 nm)	0.95	0.75	467684.58
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.95	0.75	467318.25
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9928	0.26	58356.3921
2/21/2024 20:55:23	Continuing Calibration Blank1	Ag (328.068 nm)	0.0001	64.36	-269.3067
	Continuing Calibration Blank1	Al (237.312 nm)	0.0009	75.65	88.3543
	Continuing Calibration Blank1	As (188.980 nm)	0.0006 u	> 100.00	-12.7153
	Continuing Calibration Blank1	B (249.772 nm)	0.0013	40.74	113.6779
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0002	18.56	-2.7289
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000	35.29	-204.5039
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0017	5.57	2713.9120
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000	89.26	-13.8068
	Continuing Calibration Blank1	Co (230.786 nm)	0.0000 u	> 100.00	49.4605
	Continuing Calibration Blank1	Cr (267.716 nm)	-0.0001 u	> 100.00	-73.9872
	Continuing Calibration Blank1	Cu (327.395 nm)	-0.0002 u	> 100.00	-40.6279
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0030	19.43	97.9616
	Continuing Calibration Blank1	K (766.491 nm)	0.0805	28.92	-249.0091
	Continuing Calibration Blank1	Mg (279.078 nm)	-0.0007 u	> 100.00	-17.3815

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0000	22.70	-19.5270
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0050	19.14	27.5937
	Continuing Calibration Blank1	Na (588.995 nm)	0.0450	1.96	-15520.9409
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0001 u	> 100.00	77.8301
	Continuing Calibration Blank1	Pb (220.353 nm)	0.0007	> 100.00	-11.6196
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0087	14.34	38.2726
	Continuing Calibration Blank1	Se (196.026 nm)	0.0040	25.87	-3.3169
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0014	62.93	10.3520
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0000 u	> 100.00	-53.5821
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0034	29.06	308.8886
	Continuing Calibration Blank1	Tl (190.794 nm)	-0.0004 u	> 100.00	-4.6428
	Continuing Calibration Blank1	V (292.401 nm)	-0.0001 u	61.24	-76.8353
	Continuing Calibration Blank1	Y (360.074 nm)	0.99	0.36	487265.45
	Continuing Calibration Blank1	Y_R (360.074 nm)	0.99	0.36	486791.83
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0008	3.29	-6.5973
2/21/2024 20:58:36	R2401280-018L 5X	Ag (328.068 nm)	-0.0001 u	> 100.00	-279.0951
	R2401280-018L 5X	Al (237.312 nm)	-0.0012 u	> 100.00	82.9653
	R2401280-018L 5X	As (188.980 nm)	0.0163	3.51	16.3015
	R2401280-018L 5X	B (249.772 nm)	0.0535	0.85	1883.3497
	R2401280-018L 5X	Ba (230.424 nm)	0.1461	0.26	7135.5186
	R2401280-018L 5X	Be (313.107 nm)	0.0000	87.47	-222.3422
	R2401280-018L 5X	Ca (317.933 nm)	42.6115	0.28	1717964.7022
	R2401280-018L 5X	Cd (214.439 nm)	0.0000 u	> 100.00	-15.7719
	R2401280-018L 5X	Co (230.786 nm)	0.0017	13.44	77.3427
	R2401280-018L 5X	Cr (267.716 nm)	-0.0004 u	32.00	-91.2231
	R2401280-018L 5X	Cu (327.395 nm)	0.0001 u	> 100.00	-30.5042
	R2401280-018L 5X	Fe (234.350 nm)	11.5468 o	0.25	259969.3343
	R2401280-018L 5X	K (766.491 nm)	0.3405	9.41	29.8439
	R2401280-018L 5X	Mg (279.078 nm)	7.1600	0.32	23784.9977
	R2401280-018L 5X	Mn (257.610 nm)	0.9857	0.29	333942.9417
	R2401280-018L 5X	Mo (202.032 nm)	0.0011	41.53	-4.3999
	R2401280-018L 5X	Na (588.995 nm)	7.7014	0.43	82846.6537
	R2401280-018L 5X	Ni (230.299 nm)	0.0012	43.79	91.5595
	R2401280-018L 5X	Pb (220.353 nm)	0.0002 u	> 100.00	-14.4510
	R2401280-018L 5X	Sb (217.582 nm)	0.0017	76.01	21.0923
	R2401280-018L 5X	Se (196.026 nm)	0.0018 u	> 100.00	-5.1668
	R2401280-018L 5X	Sn (189.925 nm)	0.0010	45.01	8.9950
	R2401280-018L 5X	Sr (216.596 nm)	0.0605	0.10	1160.2145
	R2401280-018L 5X	Ti (336.122 nm)	0.0011	45.78	7.5754
	R2401280-018L 5X	Tl (190.794 nm)	-0.0007 u	> 100.00	-5.0681
	R2401280-018L 5X	V (292.401 nm)	0.0003	43.76	-60.6808
	R2401280-018L 5X	Y (360.074 nm)	0.98	0.51	480822.85
	R2401280-018L 5X	Y_R (360.074 nm)	0.98	0.51	480432.54
	R2401280-018L 5X	Zn (213.857 nm)	0.0018	1.51	51.8053
2/21/2024 21:01:50	R2401280-019	Ag (328.068 nm)	0.0000 u	> 100.00	-273.0461
	R2401280-019	Al (237.312 nm)	0.0117	21.80	116.0590
	R2401280-019	As (188.980 nm)	0.0006 u	> 100.00	-12.7889
	R2401280-019	B (249.772 nm)	0.1057	0.39	3650.5196
	R2401280-019	Ba (230.424 nm)	0.0593	0.14	2889.5163
	R2401280-019	Be (313.107 nm)	0.0000 u	> 100.00	-211.2191
	R2401280-019	Ca (317.933 nm)	44.0015	0.03	1773921.5310
	R2401280-019	Cd (214.439 nm)	0.0001	9.88	-8.8810
	R2401280-019	Co (230.786 nm)	0.0003 u	> 100.00	54.4641
	R2401280-019	Cr (267.716 nm)	0.0009	15.20	-30.5933
	R2401280-019	Cu (327.395 nm)	0.0005	48.28	-15.1919
	R2401280-019	Fe (234.350 nm)	0.1178	0.72	2682.9071
	R2401280-019	K (766.491 nm)	1.4078	0.82	1174.5734

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401280-019	Mg (279.078 nm)	4.3270	0.04	14368.0383
	R2401280-019	Mn (257.610 nm)	0.0457	0.08	15455.5403
	R2401280-019	Mo (202.032 nm)	0.0004	87.34	-10.5320
	R2401280-019	Na (588.995 nm)	11.0115	0.42	125374.0502
	R2401280-019	Ni (230.299 nm)	0.0000 u	> 100.00	77.0951
	R2401280-019	Pb (220.353 nm)	0.0009	69.95	-10.5561
	R2401280-019	Sb (217.582 nm)	0.0033	4.93	24.9955
	R2401280-019	Se (196.026 nm)	-0.0018 u	> 100.00	-8.1254
	R2401280-019	Sn (189.925 nm)	0.0009	51.66	8.7402
	R2401280-019	Sr (216.596 nm)	0.1320	0.34	2593.5854
	R2401280-019	Ti (336.122 nm)	0.0006	57.64	-60.9166
	R2401280-019	Tl (190.794 nm)	-0.0017 u	52.10	-6.3884
	R2401280-019	V (292.401 nm)	0.0003	36.05	-62.8353
	R2401280-019	Y (360.074 nm)	0.97	0.46	479194.77
	R2401280-019	Y_R (360.074 nm)	0.97	0.46	478793.71
	R2401280-019	Zn (213.857 nm)	0.0045	0.45	212.8146
2/21/2024 21:05:03	R2401280-020	Ag (328.068 nm)	0.0001	84.65	-268.8165
	R2401280-020	Al (237.312 nm)	0.0009	51.22	88.5413
	R2401280-020	As (188.980 nm)	0.0013	76.25	-11.4255
	R2401280-020	B (249.772 nm)	0.0016	3.72	126.4082
	R2401280-020	Ba (230.424 nm)	0.0001	10.23	-8.6296
	R2401280-020	Be (313.107 nm)	0.0000	82.45	-224.8881
	R2401280-020	Ca (317.933 nm)	0.0166	1.16	3315.2578
	R2401280-020	Cd (214.439 nm)	0.0000 u	> 100.00	-16.3712
	R2401280-020	Co (230.786 nm)	-0.0004 u	31.51	42.4239
	R2401280-020	Cr (267.716 nm)	0.0003	26.86	-55.4400
	R2401280-020	Cu (327.395 nm)	0.0000 u	> 100.00	-35.0721
	R2401280-020	Fe (234.350 nm)	0.0071	7.12	190.5982
	R2401280-020	K (766.491 nm)	0.0326 u	98.77	-300.4343
	R2401280-020	Mg (279.078 nm)	0.0015	37.93	-10.0768
	R2401280-020	Mn (257.610 nm)	0.0003	2.11	81.1877
	R2401280-020	Mo (202.032 nm)	0.0005 u	> 100.00	-9.6931
	R2401280-020	Na (588.995 nm)	0.0572	13.93	-15363.4312
	R2401280-020	Ni (230.299 nm)	0.0001 u	> 100.00	78.0381
	R2401280-020	Pb (220.353 nm)	0.0017	48.57	-5.9563
	R2401280-020	Sb (217.582 nm)	0.0061	41.88	31.9874
	R2401280-020	Se (196.026 nm)	-0.0006 u	> 100.00	-7.1058
	R2401280-020	Sn (189.925 nm)	0.0008	59.40	8.2391
	R2401280-020	Sr (216.596 nm)	0.0001 u	> 100.00	-51.0615
	R2401280-020	Ti (336.122 nm)	-0.0001 u	> 100.00	-150.7558
	R2401280-020	Tl (190.794 nm)	-0.0026 u	31.55	-7.4481
	R2401280-020	V (292.401 nm)	0.0002	66.63	-63.8640
	R2401280-020	Y (360.074 nm)	1.00	0.57	492460.51
	R2401280-020	Y_R (360.074 nm)	1.00	0.57	492027.33
	R2401280-020	Zn (213.857 nm)	0.0037	0.80	161.2094
2/21/2024 21:08:16	R2401280-022	Ag (328.068 nm)	0.0000 u	> 100.00	-274.9168
	R2401280-022	Al (237.312 nm)	0.0896	0.76	315.9652
	R2401280-022	As (188.980 nm)	0.0064	14.01	-2.0007
	R2401280-022	B (249.772 nm)	0.0346	0.71	1241.9231
	R2401280-022	Ba (230.424 nm)	0.0581	0.44	2830.9210
	R2401280-022	Be (313.107 nm)	0.0000	15.71	-188.1439
	R2401280-022	Ca (317.933 nm)	16.3231	0.15	659729.3424
	R2401280-022	Cd (214.439 nm)	0.0001	57.70	-7.5330
	R2401280-022	Co (230.786 nm)	0.0016	15.40	75.4276
	R2401280-022	Cr (267.716 nm)	0.0005	37.17	-46.1409
	R2401280-022	Cu (327.395 nm)	0.0034	3.45	99.0541
	R2401280-022	Fe (234.350 nm)	1.5475	0.13	34866.8793

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401280-022	K (766.491 nm)	2.2091	1.27	2033.9800
	R2401280-022	Mg (279.078 nm)	1.4731	0.25	4881.5339
	R2401280-022	Mn (257.610 nm)	0.2459	0.06	83295.2154
	R2401280-022	Mo (202.032 nm)	0.0003 u	> 100.00	-11.3325
	R2401280-022	Na (588.995 nm)	5.3292	0.32	52368.7885
	R2401280-022	Ni (230.299 nm)	0.0020	19.97	101.5851
	R2401280-022	Pb (220.353 nm)	0.0014	14.17	-7.7766
	R2401280-022	Sb (217.582 nm)	0.0042	56.49	27.3144
	R2401280-022	Se (196.026 nm)	0.0011 u	> 100.00	-5.7283
	R2401280-022	Sn (189.925 nm)	0.0007	18.89	8.0933
	R2401280-022	Sr (216.596 nm)	0.0494	0.70	937.9383
	R2401280-022	Ti (336.122 nm)	0.0013	13.18	33.7551
	R2401280-022	Tl (190.794 nm)	-0.0013 u	78.54	-5.8921
	R2401280-022	V (292.401 nm)	0.0012	12.27	-24.0094
	R2401280-022	Y (360.074 nm)	0.99	0.53	486930.81
	R2401280-022	Y_R (360.074 nm)	0.99	0.53	486514.79
	R2401280-022	Zn (213.857 nm)	0.0137	0.34	749.2229
2/21/2024 21:11:29	R2401280-023	Ag (328.068 nm)	0.0002	33.71	-262.7081
	R2401280-023	Al (237.312 nm)	0.0040	14.39	96.4586
	R2401280-023	As (188.980 nm)	0.0002 u	> 100.00	-13.6051
	R2401280-023	B (249.772 nm)	0.0753	0.29	2623.4140
	R2401280-023	Ba (230.424 nm)	0.0970	0.10	4736.0302
	R2401280-023	Be (313.107 nm)	0.0000	27.31	-212.3902
	R2401280-023	Ca (317.933 nm)	109.7515 o	0.04	4420677.5037
	R2401280-023	Cd (214.439 nm)	0.0000 u	> 100.00	-15.3849
	R2401280-023	Co (230.786 nm)	0.0002	> 100.00	52.6255
	R2401280-023	Cr (267.716 nm)	-0.0001 u	56.52	-73.5793
	R2401280-023	Cu (327.395 nm)	0.0007	51.18	-6.2271
	R2401280-023	Fe (234.350 nm)	0.0092	4.12	236.6605
	R2401280-023	K (766.491 nm)	1.5372	1.70	1313.3256
	R2401280-023	Mg (279.078 nm)	22.8651	0.08	75989.0509
	R2401280-023	Mn (257.610 nm)	0.2340	0.09	79256.9473
	R2401280-023	Mo (202.032 nm)	0.0003	57.93	-11.2090
	R2401280-023	Na (588.995 nm)	13.0682	0.49	151797.7462
	R2401280-023	Ni (230.299 nm)	-0.0016 u	10.33	57.3200
	R2401280-023	Pb (220.353 nm)	0.0008	53.31	-10.9901
	R2401280-023	Sb (217.582 nm)	0.0035	36.85	25.4067
	R2401280-023	Se (196.026 nm)	-0.0002 u	> 100.00	-6.7885
	R2401280-023	Sn (189.925 nm)	0.0006 u	> 100.00	7.6302
	R2401280-023	Sr (216.596 nm)	0.1610	0.40	3174.5898
	R2401280-023	Ti (336.122 nm)	0.0031	5.91	270.2357
	R2401280-023	Tl (190.794 nm)	-0.0013 u	59.99	-5.8958
	R2401280-023	V (292.401 nm)	0.0000 u	> 100.00	-73.9515
	R2401280-023	Y (360.074 nm)	0.95	0.29	469447.28
	R2401280-023	Y_R (360.074 nm)	0.95	0.29	468884.52
	R2401280-023	Zn (213.857 nm)	0.0032	2.09	133.2858
2/21/2024 21:14:43	R2401280-024	Ag (328.068 nm)	0.0001 u	> 100.00	-268.8277
	R2401280-024	Al (237.312 nm)	-0.0001 u	> 100.00	85.8838
	R2401280-024	As (188.980 nm)	-0.0007 u	> 100.00	-15.1687
	R2401280-024	B (249.772 nm)	0.0007	31.59	93.6796
	R2401280-024	Ba (230.424 nm)	0.0000 u	> 100.00	-14.3946
	R2401280-024	Be (313.107 nm)	0.0000	39.24	-215.6403
	R2401280-024	Ca (317.933 nm)	0.0067	4.90	2916.3384
	R2401280-024	Cd (214.439 nm)	0.0000	95.29	-13.9097
	R2401280-024	Co (230.786 nm)	-0.0003 u	> 100.00	45.3547
	R2401280-024	Cr (267.716 nm)	0.0003	27.58	-56.5617
	R2401280-024	Cu (327.395 nm)	0.0000 u	> 100.00	-35.5367

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401280-024	Fe (234.350 nm)	0.0041	3.72	123.7605
	R2401280-024	K (766.491 nm)	0.0309 u	> 100.00	-302.2457
	R2401280-024	Mg (279.078 nm)	0.0008 u	> 100.00	-12.2939
	R2401280-024	Mn (257.610 nm)	0.0001	12.52	-3.0376
	R2401280-024	Mo (202.032 nm)	0.0000 u	> 100.00	-13.8618
	R2401280-024	Na (588.995 nm)	0.0354	17.55	-15643.2545
	R2401280-024	Ni (230.299 nm)	0.0001 u	> 100.00	78.4057
	R2401280-024	Pb (220.353 nm)	0.0008	52.70	-11.4845
	R2401280-024	Sb (217.582 nm)	0.0049	29.35	28.8846
	R2401280-024	Se (196.026 nm)	-0.0020 u	> 100.00	-8.2933
	R2401280-024	Sn (189.925 nm)	0.0008	58.04	8.3595
	R2401280-024	Sr (216.596 nm)	0.0003	55.77	-48.0580
	R2401280-024	Ti (336.122 nm)	-0.0002 u	85.25	-166.6157
	R2401280-024	Tl (190.794 nm)	-0.0027 u	23.23	-7.6698
	R2401280-024	V (292.401 nm)	0.0000 u	> 100.00	-73.3329
	R2401280-024	Y (360.074 nm)	1.01	0.56	495081.87
	R2401280-024	Y_R (360.074 nm)	1.00	0.57	494435.24
	R2401280-024	Zn (213.857 nm)	0.0035	2.29	150.9729
2/21/2024 21:17:57	Continuing Calibration Verification1	Ag (328.068 nm)	0.5210	0.12	31642.5745
	Continuing Calibration Verification1	Al (237.312 nm)	10.1862	0.20	26225.6914
	Continuing Calibration Verification1	As (188.980 nm)	0.9881	0.56	1819.7788
	Continuing Calibration Verification1	B (249.772 nm)	2.4785	0.03	84037.0645
	Continuing Calibration Verification1	Ba (230.424 nm)	10.4604	0.15	512009.4297
	Continuing Calibration Verification1	Be (313.107 nm)	0.2481	0.06	283503.8797
	Continuing Calibration Verification1	Ca (317.933 nm)	26.2077	0.03	1057635.2979
	Continuing Calibration Verification1	Cd (214.439 nm)	0.5175	0.13	33104.1104
	Continuing Calibration Verification1	Co (230.786 nm)	2.5921	0.47	42015.4392
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5200	0.20	23789.5472
	Continuing Calibration Verification1	Cu (327.395 nm)	1.2624	0.23	48950.7555
	Continuing Calibration Verification1	Fe (234.350 nm)	5.1294	0.01	115501.6998
	Continuing Calibration Verification1	K (766.491 nm)	24.3449	0.40	25775.8412
	Continuing Calibration Verification1	Mg (279.078 nm)	25.4869	0.13	84704.1120
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7608	0.06	257751.5088
	Continuing Calibration Verification1	Mo (202.032 nm)	2.6003	0.34	21536.7841
	Continuing Calibration Verification1	Na (588.995 nm)	25.1302	0.36	306765.8006
	Continuing Calibration Verification1	Ni (230.299 nm)	2.1319	0.13	25940.8760
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5201	0.16	2983.8448
	Continuing Calibration Verification1	Sb (217.582 nm)	5.0463	0.29	12436.9726
	Continuing Calibration Verification1	Se (196.026 nm)	0.4877	0.13	399.4340
	Continuing Calibration Verification1	Sn (189.925 nm)	5.1597	0.13	15722.6817
	Continuing Calibration Verification1	Sr (216.596 nm)	2.5471	0.28	51022.3208
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5605	0.16	344156.4991
	Continuing Calibration Verification1	Tl (190.794 nm)	1.0463	0.29	1332.5541
	Continuing Calibration Verification1	V (292.401 nm)	2.5549	0.10	105783.3429
	Continuing Calibration Verification1	Y (360.074 nm)	0.95	0.55	466592.16
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.95	0.54	465990.11
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9967	0.35	58584.1687
2/21/2024 21:21:10	Continuing Calibration Blank1	Ag (328.068 nm)	0.0002	27.00	-259.7039
	Continuing Calibration Blank1	Al (237.312 nm)	0.0022	33.76	91.8639
	Continuing Calibration Blank1	As (188.980 nm)	0.0027	52.52	-8.9218
	Continuing Calibration Blank1	B (249.772 nm)	0.0009	34.58	100.0833
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0004	36.52	4.5559
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000	57.27	-215.5727
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0008	44.97	2677.9563
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000 u	> 100.00	-15.5469
	Continuing Calibration Blank1	Co (230.786 nm)	0.0000 u	> 100.00	49.6718
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0000 u	> 100.00	-71.4776

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0000 u	> 100.00	-35.8736
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0027	19.02	91.0586
	Continuing Calibration Blank1	K (766.491 nm)	0.0183	78.58	-315.7700
	Continuing Calibration Blank1	Mg (279.078 nm)	-0.0003 u	> 100.00	-15.9959
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0000	50.69	-19.6329
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0055	15.16	31.7158
	Continuing Calibration Blank1	Na (588.995 nm)	0.0070	83.39	-16009.1812
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0000 u	> 100.00	77.4200
	Continuing Calibration Blank1	Pb (220.353 nm)	0.0011 u	> 100.00	-9.3702
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0104 Z 0.061	14.30	42.5238 Z
	Continuing Calibration Blank1	Se (196.026 nm)	0.0013	60.64	-5.5645
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0016 u	94.74	10.7488
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0001 u	> 100.00	-51.5780
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0035	28.43	321.9959
	Continuing Calibration Blank1	Tl (190.794 nm)	-0.0017 u	54.29	-6.3877
	Continuing Calibration Blank1	V (292.401 nm)	0.0002 u	> 100.00	-66.2390
	Continuing Calibration Blank1	Y (360.074 nm)	0.99	0.32	489595.36
	Continuing Calibration Blank1	Y_R (360.074 nm)	0.99	0.32	488686.62
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0008	4.21	-9.3355
2/21/2024 21:24:24	Contract Required Detection Limit	Ag (328.068 nm)	0.0099	1.50	329.8276
	Contract Required Detection Limit	Al (237.312 nm)	0.1973	0.31	592.4421
	Contract Required Detection Limit	As (188.980 nm)	0.0204	4.77	23.8782
	Contract Required Detection Limit	B (249.772 nm)	0.1937	0.27	6633.6564
	Contract Required Detection Limit	Ba (230.424 nm)	0.2082	0.11	10175.8598
	Contract Required Detection Limit	Be (313.107 nm)	0.0049	0.43	5413.5451
	Contract Required Detection Limit	Ca (317.933 nm)	1.0258	0.14	43941.4840
	Contract Required Detection Limit	Cd (214.439 nm)	0.0104	0.75	648.3795
	Contract Required Detection Limit	Co (230.786 nm)	0.0514	0.52	881.4920
	Contract Required Detection Limit	Cr (267.716 nm)	0.0101	1.67	390.6129
	Contract Required Detection Limit	Cu (327.395 nm)	0.0249	1.10	932.8583
	Contract Required Detection Limit	Fe (234.350 nm)	0.1108	0.28	2523.8140
	Contract Required Detection Limit	K (766.491 nm)	0.9257	0.29	657.5263
	Contract Required Detection Limit	Mg (279.078 nm)	0.9817	0.26	3247.9980
	Contract Required Detection Limit	Mn (257.610 nm)	0.0155	0.19	5217.0720
	Contract Required Detection Limit	Mo (202.032 nm)	0.0254	1.54	196.7300
	Contract Required Detection Limit	Na (588.995 nm)	0.9532	0.56	-3852.2662
	Contract Required Detection Limit	Ni (230.299 nm)	0.0408	0.64	572.4144
	Contract Required Detection Limit	Pb (220.353 nm)	0.0115	2.39	50.4243
	Contract Required Detection Limit	Sb (217.582 nm)	0.0625	3.35	170.5620
	Contract Required Detection Limit	Se (196.026 nm)	0.0109	38.41	2.4074
	Contract Required Detection Limit	Sn (189.925 nm)	0.5065	0.52	1548.6518
	Contract Required Detection Limit	Sr (216.596 nm)	0.1019	0.34	1989.7669
	Contract Required Detection Limit	Ti (336.122 nm)	0.0504	0.79	6634.6113
	Contract Required Detection Limit	Tl (190.794 nm)	0.0168	4.79	17.2291
	Contract Required Detection Limit	V (292.401 nm)	0.0497	0.09	1986.4767
	Contract Required Detection Limit	Y (360.074 nm)	0.99	0.58	485336.53
	Contract Required Detection Limit	Y_R (360.074 nm)	0.98	0.58	484723.64
	Contract Required Detection Limit	Zn (213.857 nm)	0.0199	0.42	1117.6785
2/21/2024 21:27:37	Interference Check Solution A	Ag (328.068 nm)	-0.0002 u	55.03	-288.7464
	Interference Check Solution A	Al (237.312 nm)	257.0036 o	0.16	659600.1832
	Interference Check Solution A	As (188.980 nm)	-0.0059 Ku +/-0.01	49.37	-24.7783 K
	Interference Check Solution A	B (249.772 nm)	0.1152	0.11	3973.1517
	Interference Check Solution A	Ba (230.424 nm)	0.0003	32.35	-0.7721
	Interference Check Solution A	Be (313.107 nm)	0.0000 u	> 100.00	-242.7288
	Interference Check Solution A	Ca (317.933 nm)	243.4680 o	0.06	9803418.6639
	Interference Check Solution A	Cd (214.439 nm)	-0.0021 Ku	3.28	-148.5100 K
	Interference Check Solution A	Co (230.786 nm)	0.0015	27.52	73.9756

+/- 0.005D

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Interference Check Solution A	Cr (267.716 nm)	0.0011	13.16	-19.6579
	Interference Check Solution A	Cu (327.395 nm)	0.0007	15.32	-8.4000
	Interference Check Solution A	Fe (234.350 nm)	95.5986 o	0.03	2152120.1042
	Interference Check Solution A	K (766.491 nm)	0.0052 u	> 100.00	-329.8001
	Interference Check Solution A	Mg (279.078 nm)	263.9286 o	0.04	877291.0139
	Interference Check Solution A	Mn (257.610 nm)	0.0014	0.44	428.3767
	Interference Check Solution A	Mo (202.032 nm)	-0.0027 u	20.32	-35.9729
	Interference Check Solution A	Na (588.995 nm)	-0.0838 u	2.31	-17175.1669
	Interference Check Solution A	Ni (230.299 nm)	0.0018	19.76	99.1005
	Interference Check Solution A	Pb (220.353 nm)	-0.0037 u	30.57	-37.2561
	Interference Check Solution A	Sb (217.582 nm)	-0.0041 u	52.78	6.6516
	Interference Check Solution A	Se (196.026 nm)	0.0111 K +/-0.007	74.38	2.5870 K
	Interference Check Solution A	Sn (189.925 nm)	0.0035	14.19	16.5888
	Interference Check Solution A	Sr (216.596 nm)	0.0102	2.21	151.4519
	Interference Check Solution A	Ti (336.122 nm)	0.0021	17.48	136.0301
	Interference Check Solution A	Tl (190.794 nm)	-0.0004 u	> 100.00	-4.6763
	Interference Check Solution A	V (292.401 nm)	0.0021	5.19	11.2604
	Interference Check Solution A	Y (360.074 nm)	0.87	0.52	426922.90
	Interference Check Solution A	Y_R (360.074 nm)	0.87	0.51	426535.62
	Interference Check Solution A	Zn (213.857 nm)	0.0115 K +/-0.02	0.83	625.1874 K
2/21/2024 21:30:51	Interference Check Solution AB	Ag (328.068 nm)	0.2082	0.20	12481.1558
	Interference Check Solution AB	Al (237.312 nm)	260.1431 o	0.10	667656.4756
	Interference Check Solution AB	As (188.980 nm)	0.0892	5.53	151.6352
	Interference Check Solution AB	B (249.772 nm)	0.1307	0.15	4498.6137
	Interference Check Solution AB	Ba (230.424 nm)	0.5352	0.12	26184.6743
	Interference Check Solution AB	Be (313.107 nm)	0.4960	0.43	566937.6146
	Interference Check Solution AB	Ca (317.933 nm)	245.7093 o	0.11	9893641.2784
	Interference Check Solution AB	Cd (214.439 nm)	0.9949	0.10	63664.1859
	Interference Check Solution AB	Co (230.786 nm)	0.4973	0.12	8100.7867
	Interference Check Solution AB	Cr (267.716 nm)	0.5117	0.09	23406.3688
	Interference Check Solution AB	Cu (327.395 nm)	0.5400	0.18	20917.7961
	Interference Check Solution AB	Fe (234.350 nm)	96.6482 o	0.09	2175750.3060
	Interference Check Solution AB	K (766.491 nm)	-0.0230 u	> 100.00	-360.0947
	Interference Check Solution AB	Mg (279.078 nm)	266.5202 o	0.09	885905.7564
	Interference Check Solution AB	Mn (257.610 nm)	0.5006	0.07	169594.8537
	Interference Check Solution AB	Mo (202.032 nm)	-0.0026 u	15.67	-35.2988
	Interference Check Solution AB	Na (588.995 nm)	-0.0797 u	7.40	-17122.8919
	Interference Check Solution AB	Ni (230.299 nm)	1.0110	0.17	12341.9734
	Interference Check Solution AB	Pb (220.353 nm)	0.0474	1.84	257.6043
	Interference Check Solution AB	Sb (217.582 nm)	0.6168	0.23	1534.9084
	Interference Check Solution AB	Se (196.026 nm)	0.0548	15.52	38.9839
	Interference Check Solution AB	Sn (189.925 nm)	0.0025	41.08	13.6786
	Interference Check Solution AB	Sr (216.596 nm)	0.0101	1.09	149.8523
	Interference Check Solution AB	Ti (336.122 nm)	0.0020	11.80	127.4894
	Interference Check Solution AB	Tl (190.794 nm)	0.1020	3.11	126.1785
	Interference Check Solution AB	V (292.401 nm)	0.5132	0.09	21189.3254
	Interference Check Solution AB	Y (360.074 nm)	0.86	0.51	425067.62
	Interference Check Solution AB	Y_R (360.074 nm)	0.86	0.51	424549.17
	Interference Check Solution AB	Zn (213.857 nm)	1.0299	0.16	60538.1344
2/21/2024 21:34:05	Continuing Calibration Verification1	Ag (328.068 nm)	0.5214	0.19	31669.8741
	Continuing Calibration Verification1	Al (237.312 nm)	10.2366	0.24	26354.8996
	Continuing Calibration Verification1	As (188.980 nm)	0.9953	0.42	1833.1442
	Continuing Calibration Verification1	B (249.772 nm)	2.4805	0.10	84102.2184
	Continuing Calibration Verification1	Ba (230.424 nm)	10.4906	0.15	513489.4280
	Continuing Calibration Verification1	Be (313.107 nm)	0.2485	0.09	283889.5176
	Continuing Calibration Verification1	Ca (317.933 nm)	26.2379	0.02	1058850.1744
	Continuing Calibration Verification1	Cd (214.439 nm)	0.5185	0.07	33172.7948

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification1	Co (230.786 nm)	2.5943	0.19	42050.5378
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5195	0.03	23766.6874
	Continuing Calibration Verification1	Cu (327.395 nm)	1.2647	0.20	49038.1944
	Continuing Calibration Verification1	Fe (234.350 nm)	5.1583	0.07	116151.9645
	Continuing Calibration Verification1	K (766.491 nm)	24.4762	0.53	25916.6393
	Continuing Calibration Verification1	Mg (279.078 nm)	25.5352	0.05	84864.6394
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7607	0.03	257718.3691
	Continuing Calibration Verification1	Mo (202.032 nm)	2.6010	0.24	21542.0474
	Continuing Calibration Verification1	Na (588.995 nm)	25.2284	0.45	308028.3880
	Continuing Calibration Verification1	Ni (230.299 nm)	2.1344	0.11	25971.8044
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5195	0.21	2980.3309
	Continuing Calibration Verification1	Sb (217.582 nm)	5.0547	0.18	12457.5386
	Continuing Calibration Verification1	Se (196.026 nm)	0.4982	0.53	408.2079
	Continuing Calibration Verification1	Sn (189.925 nm)	5.1720	0.13	15760.1528
	Continuing Calibration Verification1	Sr (216.596 nm)	2.5523	0.17	51127.3685
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5605	0.14	344152.5886
	Continuing Calibration Verification1	Tl (190.794 nm)	1.0481	0.29	1334.9323
	Continuing Calibration Verification1	V (292.401 nm)	2.5554	0.07	105803.3974
	Continuing Calibration Verification1	Y (360.074 nm)	0.94	0.39	463851.19
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.94	0.40	463242.86
	Continuing Calibration Verification1	Zn (213.857 nm)	1.0005	0.14	58808.3283
2/21/2024 21:37:19	Continuing Calibration Blank1	Ag (328.068 nm)	0.0001	70.76	-266.4395
	Continuing Calibration Blank1	Al (237.312 nm)	0.0009 u	> 100.00	88.4134
	Continuing Calibration Blank1	As (188.980 nm)	0.0020	41.91	-10.1291
	Continuing Calibration Blank1	B (249.772 nm)	0.0011	27.79	108.0563
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0005	7.82	9.6227
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000	40.77	-210.6736
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0020	0.83	2728.7750
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000 u	33.96	-18.9563
	Continuing Calibration Blank1	Co (230.786 nm)	-0.0002 u	> 100.00	46.2463
	Continuing Calibration Blank1	Cr (267.716 nm)	-0.0003 u	38.50	-84.5857
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0000 u	> 100.00	-33.9499
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0032	15.18	102.4616
	Continuing Calibration Blank1	K (766.491 nm)	0.0317	41.11	-301.3935
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0006 u	> 100.00	-13.0181
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0001	33.34	-12.0836
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0044	14.92	23.1474
	Continuing Calibration Blank1	Na (588.995 nm)	0.0086	78.00	-15988.1995
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0004	15.12	81.3960
	Continuing Calibration Blank1	Pb (220.353 nm)	0.0000 u	> 100.00	-15.5769
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0079	11.72	36.3063
	Continuing Calibration Blank1	Se (196.026 nm)	0.0028	66.55	-4.2930
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0011	59.65	9.2150
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0002	96.31	-49.9470
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0034	28.96	320.9058
	Continuing Calibration Blank1	Tl (190.794 nm)	-0.0019 u	> 100.00	-6.5420
	Continuing Calibration Blank1	V (292.401 nm)	0.0002 u	> 100.00	-65.8549
	Continuing Calibration Blank1	Y (360.074 nm)	0.99	0.33	486598.76
	Continuing Calibration Blank1	Y_R (360.074 nm)	0.99	0.32	485995.12
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0008	3.92	-6.2885
2/21/2024 21:40:32	PBW-434255	Ag (328.068 nm)	0.0001	> 100.00	-269.2267
	PBW-434255	Al (237.312 nm)	-0.0013 u	88.76	82.7946
	PBW-434255	As (188.980 nm)	0.0013	83.14	-11.4731
	PBW-434255	B (249.772 nm)	0.0023	5.17	148.2216
	PBW-434255	Ba (230.424 nm)	0.0001	80.61	-11.0580
	PBW-434255	Be (313.107 nm)	0.0000	36.06	-222.4221
	PBW-434255	Ca (317.933 nm)	0.0034	7.34	2782.5930

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	PBW-434255	Cd (214.439 nm)	0.0001	70.74	-12.7536
	PBW-434255	Co (230.786 nm)	-0.0002 u	91.95	45.7476
	PBW-434255	Cr (267.716 nm)	0.0000 u	> 100.00	-70.8746
	PBW-434255	Cu (327.395 nm)	0.0007	19.23	-9.1942
	PBW-434255	Fe (234.350 nm)	0.0031	7.99	100.8052
	PBW-434255	K (766.491 nm)	0.0010 u	> 100.00	-334.2794
	PBW-434255	Mg (279.078 nm)	-0.0001 u	> 100.00	-15.4256
	PBW-434255	Mn (257.610 nm)	0.0002	1.38	22.4729
	PBW-434255	Mo (202.032 nm)	0.0020	7.45	2.9925
	PBW-434255	Na (588.995 nm)	0.0424	9.77	-15553.3440
	PBW-434255	Ni (230.299 nm)	0.0009	54.56	87.7247
	PBW-434255	Pb (220.353 nm)	0.0006 u	> 100.00	-12.5534
	PBW-434255	Sb (217.582 nm)	0.0068	5.95	33.5681
	PBW-434255	Se (196.026 nm)	-0.0008 u	> 100.00	-7.2757
	PBW-434255	Sn (189.925 nm)	0.0006 u	> 100.00	7.6969
	PBW-434255	Sr (216.596 nm)	0.0000 u	> 100.00	-52.5652
	PBW-434255	Ti (336.122 nm)	0.0008	59.66	-31.2225
	PBW-434255	Tl (190.794 nm)	-0.0025 u	24.85	-7.3541
	PBW-434255	V (292.401 nm)	0.0001 u	> 100.00	-70.2027
	PBW-434255	Y (360.074 nm)	1.00	0.57	491520.96
	PBW-434255	Y_R (360.074 nm)	1.00	0.57	490868.36
	PBW-434255	Zn (213.857 nm)	0.0002	19.82	-41.8556
2/21/2024 21:43:46	LCSW-434255	Ag (328.068 nm)	0.0516	0.25	2885.5114
	LCSW-434255	Al (237.312 nm)	1.9703	0.35	5142.1441
	LCSW-434255	As (188.980 nm)	0.0393	3.99	59.0609
	LCSW-434255	B (249.772 nm)	0.9864	0.13	33487.3580
	LCSW-434255	Ba (230.424 nm)	2.0608	0.35	100858.2128
	LCSW-434255	Be (313.107 nm)	0.0489	0.16	55698.2899
	LCSW-434255	Ca (317.933 nm)	2.0263	0.05	84214.6018
	LCSW-434255	Cd (214.439 nm)	0.0518	0.18	3301.5500
	LCSW-434255	Co (230.786 nm)	0.5189	0.09	8449.8343
	LCSW-434255	Cr (267.716 nm)	0.2010	0.14	9149.4713
	LCSW-434255	Cu (327.395 nm)	0.2527	0.18	9772.4872
	LCSW-434255	Fe (234.350 nm)	1.0058	0.08	22673.6155
	LCSW-434255	K (766.491 nm)	18.7575	0.33	19783.0110
	LCSW-434255	Mg (279.078 nm)	1.9573	0.19	6491.0394
	LCSW-434255	Mn (257.610 nm)	0.4959	0.10	167999.7983
	LCSW-434255	Mo (202.032 nm)	0.4918	0.45	4062.6295
	LCSW-434255	Na (588.995 nm)	19.4409	0.38	233671.3228
	LCSW-434255	Ni (230.299 nm)	0.5310	0.11	6518.9264
	LCSW-434255	Pb (220.353 nm)	0.5177	0.18	2969.7283
	LCSW-434255	Sb (217.582 nm)	0.4966	0.79	1238.9899
	LCSW-434255	Se (196.026 nm)	0.9976	0.35	824.0503
	LCSW-434255	Sn (189.925 nm)	5.0145	0.15	15280.2896
	LCSW-434255	Sr (216.596 nm)	2.0299	0.28	40652.6060
	LCSW-434255	Ti (336.122 nm)	0.4959	0.20	66543.6460
	LCSW-434255	Tl (190.794 nm)	2.0369	0.08	2598.1487
	LCSW-434255	V (292.401 nm)	0.4921	0.18	20315.3419
	LCSW-434255	Y (360.074 nm)	0.97	0.42	479828.23
	LCSW-434255	Y_R (360.074 nm)	0.97	0.42	479221.67
	LCSW-434255	Zn (213.857 nm)	0.5126	0.19	30101.8626
2/21/2024 21:47:00	R2401280-025	Ag (328.068 nm)	0.0002	79.22	-262.9079
	R2401280-025	Al (237.312 nm)	0.0009	16.10	88.5247
	R2401280-025	As (188.980 nm)	-0.0005 u	> 100.00	-14.8100
	R2401280-025	B (249.772 nm)	0.0751	0.41	2615.3118
	R2401280-025	Ba (230.424 nm)	0.0963	0.14	4701.0966
	R2401280-025	Be (313.107 nm)	0.0000	58.09	-216.3617

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401280-025	Ca (317.933 nm)	108.5387 o	0.14	4371858.0929
	R2401280-025	Cd (214.439 nm)	0.0001	19.53	-9.8214
	R2401280-025	Co (230.786 nm)	0.0002 u	> 100.00	53.2297
	R2401280-025	Cr (267.716 nm)	0.0001	89.38	-67.2651
	R2401280-025	Cu (327.395 nm)	0.0004 u	> 100.00	-19.3295
	R2401280-025	Fe (234.350 nm)	0.0067	8.75	180.6612
	R2401280-025	K (766.491 nm)	1.5014	1.07	1274.9894
	R2401280-025	Mg (279.078 nm)	22.6220	0.15	75181.1328
	R2401280-025	Mn (257.610 nm)	0.2321	0.09	78604.8163
	R2401280-025	Mo (202.032 nm)	0.0029	21.64	10.6168
	R2401280-025	Na (588.995 nm)	12.9929	0.37	150830.0136
	R2401280-025	Ni (230.299 nm)	-0.0022 u	6.09	49.8543
	R2401280-025	Pb (220.353 nm)	0.0002	86.77	-14.4811
	R2401280-025	Sb (217.582 nm)	0.0062	42.29	32.0042
	R2401280-025	Se (196.026 nm)	0.0048	19.83	-2.6658
	R2401280-025	Sn (189.925 nm)	0.0030	29.44	15.1846
	R2401280-025	Sr (216.596 nm)	0.1591	0.16	3136.6284
	R2401280-025	Ti (336.122 nm)	0.0020	23.05	125.0090
	R2401280-025	Tl (190.794 nm)	-0.0001 u	> 100.00	-4.3058
	R2401280-025	V (292.401 nm)	0.0002	55.23	-67.0345
	R2401280-025	Y (360.074 nm)	0.95	0.37	468163.67
	R2401280-025	Y_R (360.074 nm)	0.95	0.36	467629.01
	R2401280-025	Zn (213.857 nm)	0.0030	2.21	124.7496
2/21/2024 21:50:14	R2401303-001	Ag (328.068 nm)	0.0001 u	> 100.00	-270.8403
	R2401303-001	Al (237.312 nm)	0.1385	1.47	441.5024
	R2401303-001	As (188.980 nm)	-0.0010 u	> 100.00	-15.8168
	R2401303-001	B (249.772 nm)	0.0165	1.27	628.5990
	R2401303-001	Ba (230.424 nm)	0.1249	0.12	6100.8641
	R2401303-001	Be (313.107 nm)	0.0000	7.38	-221.6841
	R2401303-001	Ca (317.933 nm)	264.2028 o	0.04	10638091.7722
	R2401303-001	Cd (214.439 nm)	0.0000 u	> 100.00	-14.4634
	R2401303-001	Co (230.786 nm)	0.0038	8.38	111.3574
	R2401303-001	Cr (267.716 nm)	0.0005	22.12	-46.6808
	R2401303-001	Cu (327.395 nm)	0.0011	11.50	8.6540
	R2401303-001	Fe (234.350 nm)	0.1954	0.06	4428.8311
	R2401303-001	K (766.491 nm)	4.3539	0.63	4334.4227
	R2401303-001	Mg (279.078 nm)	44.3880	0.11	147531.9080
	R2401303-001	Mn (257.610 nm)	2.2715 o	0.08	769592.7188
	R2401303-001	Mo (202.032 nm)	0.0002 u	> 100.00	-12.1716
	R2401303-001	Na (588.995 nm)	121.2020 o	0.34	1541065.1749
	R2401303-001	Ni (230.299 nm)	0.0014	19.19	93.8888
	R2401303-001	Pb (220.353 nm)	0.0010	46.30	-10.2292
	R2401303-001	Sb (217.582 nm)	0.0010 u	> 100.00	19.2755
	R2401303-001	Se (196.026 nm)	0.0012 u	> 100.00	-5.6600
	R2401303-001	Sn (189.925 nm)	0.0012	54.62	9.5809
	R2401303-001	Sr (216.596 nm)	1.2506	0.13	25023.8631
	R2401303-001	Ti (336.122 nm)	0.0057	7.35	620.9843
	R2401303-001	Tl (190.794 nm)	0.0000 u	> 100.00	-4.2340
	R2401303-001	V (292.401 nm)	0.0002	76.90	-66.2754
	R2401303-001	Y (360.074 nm)	0.90	0.59	445142.46
	R2401303-001	Y_R (360.074 nm)	0.90	0.59	444396.66
	R2401303-001	Zn (213.857 nm)	0.0053	0.52	257.3783
2/21/2024 21:53:28	R2401303-002	Ag (328.068 nm)	0.0000 u	> 100.00	-275.2294
	R2401303-002	Al (237.312 nm)	0.2448	0.87	714.4635
	R2401303-002	As (188.980 nm)	-0.0004 u	> 100.00	-14.5855
	R2401303-002	B (249.772 nm)	0.0461	0.63	1634.5112
	R2401303-002	Ba (230.424 nm)	0.0784	0.35	3822.5183

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401303-002	Be (313.107 nm)	0.0000	62.48	-217.9014
	R2401303-002	Ca (317.933 nm)	155.6561 o	0.12	6268562.2338
	R2401303-002	Cd (214.439 nm)	0.0000	> 100.00	-14.0743
	R2401303-002	Co (230.786 nm)	0.0008	47.90	62.9443
	R2401303-002	Cr (267.716 nm)	0.0005	45.90	-49.6827
	R2401303-002	Cu (327.395 nm)	0.0012	4.46	13.6152
	R2401303-002	Fe (234.350 nm)	0.2846	0.21	6438.4145
	R2401303-002	K (766.491 nm)	8.8449	0.23	9151.2382
	R2401303-002	Mg (279.078 nm)	28.2922	0.14	94028.9868
	R2401303-002	Mn (257.610 nm)	0.2077	0.15	70329.9357
	R2401303-002	Mo (202.032 nm)	0.0041	12.33	20.1431
	R2401303-002	Na (588.995 nm)	96.6785 o	0.34	1225995.6194
	R2401303-002	Ni (230.299 nm)	0.0002	> 100.00	79.3083
	R2401303-002	Pb (220.353 nm)	0.0003 u	> 100.00	-14.1943
	R2401303-002	Sb (217.582 nm)	0.0015	80.21	20.4258
	R2401303-002	Se (196.026 nm)	0.0005 u	> 100.00	-6.2427
	R2401303-002	Sn (189.925 nm)	0.0004 u	> 100.00	7.2856
	R2401303-002	Sr (216.596 nm)	1.4480	0.12	28983.0236
	R2401303-002	Ti (336.122 nm)	0.0046	3.43	473.6924
	R2401303-002	Tl (190.794 nm)	-0.0006 u	> 100.00	-4.8809
	R2401303-002	V (292.401 nm)	0.0004	38.49	-56.3331
	R2401303-002	Y (360.074 nm)	0.92	0.45	454021.13
	R2401303-002	Y_R (360.074 nm)	0.92	0.46	453324.18
	R2401303-002	Zn (213.857 nm)	0.0039	1.39	172.6611
2/21/2024 21:56:42	R2401306-001	Ag (328.068 nm)	0.0000 u	> 100.00	-274.8975
	R2401306-001	Al (237.312 nm)	0.0249	5.34	150.0587
	R2401306-001	As (188.980 nm)	-0.0010 u	> 100.00	-15.8059
	R2401306-001	B (249.772 nm)	0.0641	0.24	2243.2816
	R2401306-001	Ba (230.424 nm)	0.0214	0.67	1034.6989
	R2401306-001	Be (313.107 nm)	0.0000	30.63	-216.3918
	R2401306-001	Ca (317.933 nm)	98.9887 o	0.13	3987423.0408
	R2401306-001	Cd (214.439 nm)	0.0001	38.75	-11.8577
	R2401306-001	Co (230.786 nm)	-0.0001 u	> 100.00	48.1174
	R2401306-001	Cr (267.716 nm)	0.0023	7.81	33.4541
	R2401306-001	Cu (327.395 nm)	0.0011	17.27	6.8430
	R2401306-001	Fe (234.350 nm)	0.0614	0.41	1411.7390
	R2401306-001	K (766.491 nm)	3.1380	1.78	3030.3292
	R2401306-001	Mg (279.078 nm)	69.1507 o	0.10	229843.7908
	R2401306-001	Mn (257.610 nm)	0.0055	0.70	1844.3760
	R2401306-001	Mo (202.032 nm)	0.0062	3.71	37.5626
	R2401306-001	Na (588.995 nm)	38.1561	0.34	474119.3447
	R2401306-001	Ni (230.299 nm)	-0.0047 u	19.18	19.9328
	R2401306-001	Pb (220.353 nm)	0.0006 u	> 100.00	-12.1910
	R2401306-001	Sb (217.582 nm)	0.0019	49.95	21.4446
	R2401306-001	Se (196.026 nm)	-0.0008 u	> 100.00	-7.3072
	R2401306-001	Sn (189.925 nm)	0.0007	71.31	7.9941
	R2401306-001	Sr (216.596 nm)	2.3457	0.16	46984.6450
	R2401306-001	Ti (336.122 nm)	0.0009	24.28	-17.3451
	R2401306-001	Tl (190.794 nm)	0.0006	55.78	-3.3902
	R2401306-001	V (292.401 nm)	0.0042	5.71	98.6377
	R2401306-001	Y (360.074 nm)	0.94	0.52	462858.76
	R2401306-001	Y_R (360.074 nm)	0.94	0.53	462173.27
	R2401306-001	Zn (213.857 nm)	0.0092	0.94	490.2138
2/21/2024 21:59:55	R2401306-002	Ag (328.068 nm)	0.0001	> 100.00	-268.6425
	R2401306-002	Al (237.312 nm)	0.0225	6.07	143.9617
	R2401306-002	As (188.980 nm)	0.0002 u	> 100.00	-13.5721
	R2401306-002	B (249.772 nm)	0.0632	0.33	2213.2998

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401306-002	Ba (230.424 nm)	0.0211	1.05	1017.9389
	R2401306-002	Be (313.107 nm)	0.0000 u	> 100.00	-224.6209
	R2401306-002	Ca (317.933 nm)	97.6702 o	0.09	3934345.7663
	R2401306-002	Cd (214.439 nm)	0.0000 u	> 100.00	-15.4373
	R2401306-002	Co (230.786 nm)	0.0001 u	> 100.00	51.3885
	R2401306-002	Cr (267.716 nm)	0.0020	4.08	18.8630
	R2401306-002	Cu (327.395 nm)	0.0008	44.73	-2.5634
	R2401306-002	Fe (234.350 nm)	0.0533	0.10	1230.0309
	R2401306-002	K (766.491 nm)	3.1105	1.10	3000.7448
	R2401306-002	Mg (279.078 nm)	68.2588 o	0.04	226878.9917
	R2401306-002	Mn (257.610 nm)	0.0043	0.55	1415.6078
	R2401306-002	Mo (202.032 nm)	0.0055	2.98	32.4792
	R2401306-002	Na (588.995 nm)	37.6910	0.33	468142.9327
	R2401306-002	Ni (230.299 nm)	-0.0042 u	24.56	26.3239
	R2401306-002	Pb (220.353 nm)	0.0000 u	> 100.00	-16.0281
	R2401306-002	Sb (217.582 nm)	0.0023	68.72	22.4615
	R2401306-002	Se (196.026 nm)	0.0023	59.12	-4.6780
	R2401306-002	Sn (189.925 nm)	0.0002 u	> 100.00	6.6776
	R2401306-002	Sr (216.596 nm)	2.3187	0.13	46442.2899
	R2401306-002	Ti (336.122 nm)	0.0007	30.96	-49.0783
	R2401306-002	Tl (190.794 nm)	-0.0016 u	35.59	-6.2712
	R2401306-002	V (292.401 nm)	0.0039	5.34	88.4226
	R2401306-002	Y (360.074 nm)	0.94	0.29	464248.02
	R2401306-002	Y_R (360.074 nm)	0.94	0.29	463601.83
	R2401306-002	Zn (213.857 nm)	0.0086	1.24	451.7363
2/21/2024 22:03:08	R2401306-007	Ag (328.068 nm)	0.0002	30.87	-259.7003
	R2401306-007	Al (237.312 nm)	0.0081	12.95	106.8515
	R2401306-007	As (188.980 nm)	0.0016	38.16	-11.0311
	R2401306-007	B (249.772 nm)	0.0941	0.31	3257.2599
	R2401306-007	Ba (230.424 nm)	0.0280	0.35	1356.2418
	R2401306-007	Be (313.107 nm)	0.0000	32.64	-214.3627
	R2401306-007	Ca (317.933 nm)	134.7150 o	0.03	5425578.3569
	R2401306-007	Cd (214.439 nm)	0.0001	3.75	-8.4206
	R2401306-007	Co (230.786 nm)	0.0005	55.67	57.2065
	R2401306-007	Cr (267.716 nm)	0.0005	39.55	-46.1529
	R2401306-007	Cu (327.395 nm)	0.0023	9.68	53.8540
	R2401306-007	Fe (234.350 nm)	0.0080	2.81	209.7767
	R2401306-007	K (766.491 nm)	4.0356	0.44	3992.9626
	R2401306-007	Mg (279.078 nm)	67.8517 o	0.08	225525.9753
	R2401306-007	Mn (257.610 nm)	0.0003	2.24	51.9361
	R2401306-007	Mo (202.032 nm)	0.0098	2.82	67.5032
	R2401306-007	Na (588.995 nm)	43.9449	0.37	548491.5477
	R2401306-007	Ni (230.299 nm)	-0.0023 u	22.99	49.2364
	R2401306-007	Pb (220.353 nm)	0.0005	59.22	-12.9855
	R2401306-007	Sb (217.582 nm)	-0.0001 u	> 100.00	16.5691
	R2401306-007	Se (196.026 nm)	0.0030 u	> 100.00	-4.1711
	R2401306-007	Sn (189.925 nm)	0.0007	14.03	8.0758
	R2401306-007	Sr (216.596 nm)	2.2356	0.16	44776.6008
	R2401306-007	Ti (336.122 nm)	0.0007	16.44	-48.4997
	R2401306-007	Tl (190.794 nm)	-0.0014 u	70.47	-5.9991
	R2401306-007	V (292.401 nm)	0.0011	10.05	-28.9526
	R2401306-007	Y (360.074 nm)	0.93	0.38	460398.77
	R2401306-007	Y_R (360.074 nm)	0.93	0.37	459788.02
	R2401306-007	Zn (213.857 nm)	0.0277	0.15	1576.3924
2/21/2024 22:06:22	R2401306-008	Ag (328.068 nm)	0.0001 u	> 100.00	-271.6534
	R2401306-008	Al (237.312 nm)	0.0131	19.78	119.6847
	R2401306-008	As (188.980 nm)	0.0002 u	> 100.00	-13.5685

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401306-008	B (249.772 nm)	0.1443	0.05	4959.0885
	R2401306-008	Ba (230.424 nm)	0.0412	0.42	2003.1677
	R2401306-008	Be (313.107 nm)	0.0000	22.41	-216.7393
	R2401306-008	Ca (317.933 nm)	83.6542 o	0.05	3370132.6772
	R2401306-008	Cd (214.439 nm)	0.0001	62.10	-11.9330
	R2401306-008	Co (230.786 nm)	0.0016	15.67	75.0575
	R2401306-008	Cr (267.716 nm)	0.0585	0.06	2613.6924
	R2401306-008	Cu (327.395 nm)	0.0031	3.95	87.1336
	R2401306-008	Fe (234.350 nm)	0.6701	0.08	15116.0214
	R2401306-008	K (766.491 nm)	2.4908	0.72	2336.1197
	R2401306-008	Mg (279.078 nm)	55.7042 o	0.08	185147.2055
	R2401306-008	Mn (257.610 nm)	0.0216	0.12	7291.3062
	R2401306-008	Mo (202.032 nm)	0.0090	0.63	61.3998
	R2401306-008	Na (588.995 nm)	51.5654	0.35	646397.2570
	R2401306-008	Ni (230.299 nm)	0.0631	0.24	842.0904
	R2401306-008	Pb (220.353 nm)	-0.0002 u	> 100.00	-16.9969
	R2401306-008	Sb (217.582 nm)	0.0018	46.01	21.3429
	R2401306-008	Se (196.026 nm)	0.0038 u	> 100.00	-3.4930
	R2401306-008	Sn (189.925 nm)	0.0014	34.15	10.0550
	R2401306-008	Sr (216.596 nm)	2.0904	0.31	41864.4287
	R2401306-008	Ti (336.122 nm)	0.0004	15.60	-90.0837
	R2401306-008	Tl (190.794 nm)	0.0011 u	> 100.00	-2.7082
	R2401306-008	V (292.401 nm)	0.0023	2.91	22.6692
	R2401306-008	Y (360.074 nm)	0.94	0.40	464592.80
	R2401306-008	Y_R (360.074 nm)	0.94	0.40	463966.55
	R2401306-008	Zn (213.857 nm)	0.0056	1.21	273.9169
2/21/2024 22:09:35	R2401306-009	Ag (328.068 nm)	0.0004	14.03	-252.3719
	R2401306-009	Al (237.312 nm)	0.0123	22.40	117.8246
	R2401306-009	As (188.980 nm)	-0.0010 u	> 100.00	-15.7840
	R2401306-009	B (249.772 nm)	0.1448	0.21	4975.5496
	R2401306-009	Ba (230.424 nm)	0.0412	0.34	2002.0811
	R2401306-009	Be (313.107 nm)	0.0000 u	> 100.00	-224.4158
	R2401306-009	Ca (317.933 nm)	83.5632 o	0.05	3366470.8775
	R2401306-009	Cd (214.439 nm)	0.0001	81.17	-12.4131
	R2401306-009	Co (230.786 nm)	0.0017	20.92	76.2027
	R2401306-009	Cr (267.716 nm)	0.0575	0.25	2566.0037
	R2401306-009	Cu (327.395 nm)	0.0028	4.78	72.9930
	R2401306-009	Fe (234.350 nm)	0.6914	0.05	15595.1907
	R2401306-009	K (766.491 nm)	2.5040	1.30	2350.2595
	R2401306-009	Mg (279.078 nm)	55.6757 o	0.04	185052.3990
	R2401306-009	Mn (257.610 nm)	0.0180	0.40	6070.2103
	R2401306-009	Mo (202.032 nm)	0.0087	2.46	58.2892
	R2401306-009	Na (588.995 nm)	51.4611	0.29	645057.4239
	R2401306-009	Ni (230.299 nm)	0.0619	0.45	827.9156
	R2401306-009	Pb (220.353 nm)	0.0002 u	> 100.00	-14.5839
	R2401306-009	Sb (217.582 nm)	0.0007 u	> 100.00	18.6288
	R2401306-009	Se (196.026 nm)	0.0018	> 100.00	-5.1551
	R2401306-009	Sn (189.925 nm)	0.0009	88.98	8.6600
	R2401306-009	Sr (216.596 nm)	2.0855	0.19	41765.8120
	R2401306-009	Ti (336.122 nm)	0.0004	12.11	-95.2995
	R2401306-009	Tl (190.794 nm)	-0.0004 u	52.02	-4.7248
	R2401306-009	V (292.401 nm)	0.0021	5.07	14.3851
	R2401306-009	Y (360.074 nm)	0.94	0.38	464926.00
	R2401306-009	Y_R (360.074 nm)	0.94	0.38	464259.59
	R2401306-009	Zn (213.857 nm)	0.0046	1.73	219.5714
2/21/2024 22:12:48	Continuing Calibration Verification1	Ag (328.068 nm)	0.5207	0.22	31623.1634
	Continuing Calibration Verification1	Al (237.312 nm)	10.2119	0.32	26291.5577

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification1	As (188.980 nm)	0.9906	0.16	1824.4183
	Continuing Calibration Verification1	B (249.772 nm)	2.4798	0.14	84081.4332
	Continuing Calibration Verification1	Ba (230.424 nm)	10.4314	0.21	510593.0666
	Continuing Calibration Verification1	Be (313.107 nm)	0.2480	0.13	283323.8219
	Continuing Calibration Verification1	Ca (317.933 nm)	26.1316	0.13	1054570.7188
	Continuing Calibration Verification1	Cd (214.439 nm)	0.5151	0.13	32956.3823
	Continuing Calibration Verification1	Co (230.786 nm)	2.5928	0.08	42027.0816
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5176	0.21	23676.5581
	Continuing Calibration Verification1	Cu (327.395 nm)	1.2640	0.30	49011.9573
	Continuing Calibration Verification1	Fe (234.350 nm)	5.1186	0.11	115258.3140
	Continuing Calibration Verification1	K (766.491 nm)	24.5094	0.46	25952.3221
	Continuing Calibration Verification1	Mg (279.078 nm)	25.4180	0.11	84475.1836
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7593	0.12	257248.6557
	Continuing Calibration Verification1	Mo (202.032 nm)	2.5968	0.24	21507.4783
	Continuing Calibration Verification1	Na (588.995 nm)	25.3007	0.49	308956.8339
	Continuing Calibration Verification1	Ni (230.299 nm)	2.1265	0.17	25876.2632
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5169	0.26	2965.2190
	Continuing Calibration Verification1	Sb (217.582 nm)	5.0399	0.36	12421.0397
	Continuing Calibration Verification1	Se (196.026 nm)	0.4964	0.57	406.6862
	Continuing Calibration Verification1	Sn (189.925 nm)	5.1392	0.09	15660.1353
	Continuing Calibration Verification1	Sr (216.596 nm)	2.5455	0.15	50990.3212
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5586	0.18	343909.8556
	Continuing Calibration Verification1	Tl (190.794 nm)	1.0480	0.23	1334.7136
	Continuing Calibration Verification1	V (292.401 nm)	2.5498	0.11	105573.0245
	Continuing Calibration Verification1	Y (360.074 nm)	0.95	0.58	466263.09
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.95	0.58	465563.84
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9968	0.14	58588.3212
2/21/2024 22:16:02	Continuing Calibration Blank1	Ag (328.068 nm)	0.0001 u	> 100.00	-269.3525
	Continuing Calibration Blank1	Al (237.312 nm)	0.0029	26.97	93.5873
	Continuing Calibration Blank1	As (188.980 nm)	0.0019	23.87	-10.3038
	Continuing Calibration Blank1	B (249.772 nm)	0.0010	25.76	106.1039
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0005	9.36	10.9093
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000	37.33	-198.0811
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0021	8.92	2729.6433
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000 u	> 100.00	-17.0089
	Continuing Calibration Blank1	Co (230.786 nm)	0.0001 u	> 100.00	51.2876
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0000 u	> 100.00	-72.8499
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0004	33.49	-20.7355
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0025	16.28	87.2367
	Continuing Calibration Blank1	K (766.491 nm)	0.0329 u	> 100.00	-300.1006
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0010 u	> 100.00	-11.7062
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0001	20.05	-10.8722
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0045	7.89	24.1714
	Continuing Calibration Blank1	Na (588.995 nm)	0.0482	5.25	-15478.8222
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0002	> 100.00	79.5931
	Continuing Calibration Blank1	Pb (220.353 nm)	0.0008	48.89	-11.1150
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0076	25.28	35.6132
	Continuing Calibration Blank1	Se (196.026 nm)	-0.0004 u	> 100.00	-6.9465
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0016	74.63	10.9537
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0002 u	> 100.00	-49.9090
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0033	29.64	301.9315
	Continuing Calibration Blank1	Tl (190.794 nm)	-0.0023 u	56.46	-7.0633
	Continuing Calibration Blank1	V (292.401 nm)	0.0002	85.40	-66.2910
	Continuing Calibration Blank1	Y (360.074 nm)	0.99	0.39	488641.99
	Continuing Calibration Blank1	Y_R (360.074 nm)	0.99	0.39	487939.32
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0008	1.52	-8.8601
2/21/2024 22:19:15	R2401306-010	Ag (328.068 nm)	0.0001 u	> 100.00	-270.3363

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401306-010	Al (237.312 nm)	0.0008 u	> 100.00	88.0887
	R2401306-010	As (188.980 nm)	0.0015	21.12	-11.1409
	R2401306-010	B (249.772 nm)	0.0025	6.03	155.0323
	R2401306-010	Ba (230.424 nm)	0.0001	85.21	-10.1940
	R2401306-010	Be (313.107 nm)	0.0000	57.66	-211.8325
	R2401306-010	Ca (317.933 nm)	0.0190	0.75	3411.2538
	R2401306-010	Cd (214.439 nm)	0.0000 u	> 100.00	-14.7254
	R2401306-010	Co (230.786 nm)	-0.0004 u	69.90	43.1047
	R2401306-010	Cr (267.716 nm)	0.0003	22.72	-57.7270
	R2401306-010	Cu (327.395 nm)	0.0001 u	> 100.00	-28.9478
	R2401306-010	Fe (234.350 nm)	0.0046	11.60	133.5763
	R2401306-010	K (766.491 nm)	0.0092 u	> 100.00	-325.4701
	R2401306-010	Mg (279.078 nm)	-0.0003 u	> 100.00	-16.0456
	R2401306-010	Mn (257.610 nm)	0.0001	7.69	10.5171
	R2401306-010	Mo (202.032 nm)	0.0010	57.23	-4.8664
	R2401306-010	Na (588.995 nm)	0.0701	4.16	-15198.1080
	R2401306-010	Ni (230.299 nm)	-0.0006 u	36.40	69.3241
	R2401306-010	Pb (220.353 nm)	0.0006	42.90	-12.1556
	R2401306-010	Sb (217.582 nm)	0.0049	55.12	29.0030
	R2401306-010	Se (196.026 nm)	0.0002 u	> 100.00	-6.5066
	R2401306-010	Sn (189.925 nm)	0.0000 u	> 100.00	6.0804
	R2401306-010	Sr (216.596 nm)	0.0003	39.94	-46.7412
	R2401306-010	Ti (336.122 nm)	0.0009	59.54	-24.7313
	R2401306-010	Tl (190.794 nm)	-0.0014 u	84.84	-5.9998
	R2401306-010	V (292.401 nm)	0.0002	18.24	-64.0954
	R2401306-010	Y (360.074 nm)	1.00	0.50	494648.29
	R2401306-010	Y_R (360.074 nm)	1.00	0.50	493924.89
	R2401306-010	Zn (213.857 nm)	0.0009	0.84	0.7575
2/21/2024 22:22:29	R2401340-001	Ag (328.068 nm)	0.0002	> 100.00	-263.4330
	R2401340-001	Al (237.312 nm)	0.7390	0.48	1982.4871
	R2401340-001	As (188.980 nm)	0.0015 u	> 100.00	-11.0983
	R2401340-001	B (249.772 nm)	0.0528	0.30	1858.1639
	R2401340-001	Ba (230.424 nm)	0.0333	0.07	1614.6088
	R2401340-001	Be (313.107 nm)	0.0000	22.96	-179.3220
	R2401340-001	Ca (317.933 nm)	45.4059	0.09	1830453.0781
	R2401340-001	Cd (214.439 nm)	0.0001	84.62	-11.0056
	R2401340-001	Co (230.786 nm)	0.0003 u	> 100.00	53.8179
	R2401340-001	Cr (267.716 nm)	0.0231	0.79	988.3031
	R2401340-001	Cu (327.395 nm)	0.0017	26.80	32.3046
	R2401340-001	Fe (234.350 nm)	1.2462	0.25	28085.1939
	R2401340-001	K (766.491 nm)	3.0461	1.56	2931.7540
	R2401340-001	Mg (279.078 nm)	9.7186	0.15	32289.8657
	R2401340-001	Mn (257.610 nm)	0.0500	0.18	16910.0493
	R2401340-001	Mo (202.032 nm)	0.0011	53.50	-4.7257
	R2401340-001	Na (588.995 nm)	37.1231	0.38	460846.8985
	R2401340-001	Ni (230.299 nm)	0.0000 u	> 100.00	77.2036
	R2401340-001	Pb (220.353 nm)	0.0013	30.14	-8.4614
	R2401340-001	Sb (217.582 nm)	0.0035	36.92	25.4725
	R2401340-001	Se (196.026 nm)	0.0025 u	> 100.00	-4.5518
	R2401340-001	Sn (189.925 nm)	0.0008	18.55	8.4276
	R2401340-001	Sr (216.596 nm)	0.1449	0.20	2853.2357
	R2401340-001	Ti (336.122 nm)	0.0130	2.16	1610.4765
	R2401340-001	Tl (190.794 nm)	-0.0007 u	89.97	-5.0826
	R2401340-001	V (292.401 nm)	0.0016	17.93	-9.6113
	R2401340-001	Y (360.074 nm)	0.96	0.50	475071.08
	R2401340-001	Y_R (360.074 nm)	0.96	0.50	474408.03
	R2401340-001	Zn (213.857 nm)	0.0055	0.72	271.0473

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
2/21/2024 22:25:43	R2401340-001S	Ag (328.068 nm)	0.0515	0.09	2880.3988
	R2401340-001S	Al (237.312 nm)	2.6358	0.30	6850.1610
	R2401340-001S	As (188.980 nm)	0.0418	0.80	63.6742
	R2401340-001S	B (249.772 nm)	1.0546	0.20	35799.7697
	R2401340-001S	Ba (230.424 nm)	2.0574	0.08	100694.2720
	R2401340-001S	Be (313.107 nm)	0.0494	0.13	56245.3941
	R2401340-001S	Ca (317.933 nm)	47.4050	0.01	1910926.7327
	R2401340-001S	Cd (214.439 nm)	0.0506	0.07	3224.1475
	R2401340-001S	Co (230.786 nm)	0.5121	0.09	8339.4491
	R2401340-001S	Cr (267.716 nm)	0.2230	0.10	10159.7891
	R2401340-001S	Cu (327.395 nm)	0.2537	0.19	9808.9112
	R2401340-001S	Fe (234.350 nm)	2.2235	0.09	50085.9735
	R2401340-001S	K (766.491 nm)	22.4525	0.38	23746.1130
	R2401340-001S	Mg (279.078 nm)	11.6453	0.12	38694.1072
	R2401340-001S	Mn (257.610 nm)	0.5441	0.09	184310.4740
	R2401340-001S	Mo (202.032 nm)	0.4971	0.57	4106.1099
	R2401340-001S	Na (588.995 nm)	56.4561 o	0.41	709231.2657
	R2401340-001S	Ni (230.299 nm)	0.5229	0.08	6421.0825
	R2401340-001S	Pb (220.353 nm)	0.5029	0.13	2884.5556
	R2401340-001S	Sb (217.582 nm)	0.5031	0.72	1255.2109
	R2401340-001S	Se (196.026 nm)	1.0099	0.44	834.2594
	R2401340-001S	Sn (189.925 nm)	5.0078	0.18	15260.0980
	R2401340-001S	Sr (216.596 nm)	2.1288	0.18	42635.9429
	R2401340-001S	Ti (336.122 nm)	0.5110	0.20	68572.8313
	R2401340-001S	Tl (190.794 nm)	1.9972	0.01	2547.4813
	R2401340-001S	V (292.401 nm)	0.4964	0.14	20494.3807
	R2401340-001S	Y (360.074 nm)	0.95	0.36	470131.95
	R2401340-001S	Y_R (360.074 nm)	0.95	0.36	469534.38
	R2401340-001S	Zn (213.857 nm)	0.5098	0.15	29940.9868
2/21/2024 22:28:56	R2401340-001SD	Ag (328.068 nm)	0.0514	0.27	2871.5566
	R2401340-001SD	Al (237.312 nm)	2.6073	0.29	6776.9047
	R2401340-001SD	As (188.980 nm)	0.0414	4.41	62.9314
	R2401340-001SD	B (249.772 nm)	1.0543	0.12	35786.5098
	R2401340-001SD	Ba (230.424 nm)	2.0505	0.07	100357.3670
	R2401340-001SD	Be (313.107 nm)	0.0493	0.05	56184.5510
	R2401340-001SD	Ca (317.933 nm)	47.5156	0.02	1915379.4000
	R2401340-001SD	Cd (214.439 nm)	0.0506	0.05	3220.7564
	R2401340-001SD	Co (230.786 nm)	0.5109	0.09	8320.2900
	R2401340-001SD	Cr (267.716 nm)	0.2224	0.06	10131.3216
	R2401340-001SD	Cu (327.395 nm)	0.2540	0.16	9821.6883
	R2401340-001SD	Fe (234.350 nm)	2.2120	0.06	49826.1684
	R2401340-001SD	K (766.491 nm)	22.4645	0.23	23759.0228
	R2401340-001SD	Mg (279.078 nm)	11.6511	0.10	38713.5198
	R2401340-001SD	Mn (257.610 nm)	0.5435	0.04	184126.2642
	R2401340-001SD	Mo (202.032 nm)	0.5006	0.83	4135.4128
	R2401340-001SD	Na (588.995 nm)	56.5585 o	0.33	710547.4337
	R2401340-001SD	Ni (230.299 nm)	0.5208	0.16	6395.8291
	R2401340-001SD	Pb (220.353 nm)	0.5020	0.27	2879.3750
	R2401340-001SD	Sb (217.582 nm)	0.5054	0.21	1260.6994
	R2401340-001SD	Se (196.026 nm)	1.0197	0.09	842.4288
	R2401340-001SD	Sn (189.925 nm)	5.0191	0.05	15294.3891
	R2401340-001SD	Sr (216.596 nm)	2.1350	0.20	42758.9198
	R2401340-001SD	Ti (336.122 nm)	0.5123	0.14	68750.6674
	R2401340-001SD	Tl (190.794 nm)	1.9960	0.41	2545.9667
	R2401340-001SD	V (292.401 nm)	0.4954	0.09	20452.2955
	R2401340-001SD	Y (360.074 nm)	0.95	0.42	470103.41
	R2401340-001SD	Y_R (360.074 nm)	0.95	0.42	469459.41

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401340-001SD	Zn (213.857 nm)	0.5089	0.10	29887.8207
2/21/2024 22:32:10	R2401340-001A	Ag (328.068 nm)	0.0515	0.39	2879.6246
	R2401340-001A	Al (237.312 nm)	2.6964	0.27	7005.5347
	R2401340-001A	As (188.980 nm)	0.0386	0.94	57.7840
	R2401340-001A	B (249.772 nm)	1.0598	0.11	35973.5177
	R2401340-001A	Ba (230.424 nm)	2.0529	0.35	100472.4954
	R2401340-001A	Be (313.107 nm)	0.0493	0.18	56178.5593
	R2401340-001A	Ca (317.933 nm)	46.2498	0.02	1864426.5550
	R2401340-001A	Cd (214.439 nm)	0.0505	0.06	3214.1830
	R2401340-001A	Co (230.786 nm)	0.5102	0.22	8310.1572
	R2401340-001A	Cr (267.716 nm)	0.2215	0.11	10092.1495
	R2401340-001A	Cu (327.395 nm)	0.2530	0.20	9783.5618
	R2401340-001A	Fe (234.350 nm)	2.1999	0.09	49553.8698
	R2401340-001A	K (766.491 nm)	22.4199	0.28	23711.1515
	R2401340-001A	Mg (279.078 nm)	11.3510	0.13	37716.0152
	R2401340-001A	Mn (257.610 nm)	0.5416	0.10	183479.9281
	R2401340-001A	Mo (202.032 nm)	0.4988	0.39	4120.3900
	R2401340-001A	Na (588.995 nm)	55.1811 o	0.37	692850.3630
	R2401340-001A	Ni (230.299 nm)	0.5205	0.16	6391.3077
	R2401340-001A	Pb (220.353 nm)	0.5008	0.14	2872.6712
	R2401340-001A	Sb (217.582 nm)	0.5031	0.31	1255.1705
	R2401340-001A	Se (196.026 nm)	1.0265	0.32	848.0869
	R2401340-001A	Sn (189.925 nm)	5.0170	0.18	15287.9228
	R2401340-001A	Sr (216.596 nm)	2.1201	0.15	42460.3441
	R2401340-001A	Ti (336.122 nm)	0.5105	0.15	68505.2280
	R2401340-001A	Tl (190.794 nm)	1.9934	0.16	2542.6376
	R2401340-001A	V (292.401 nm)	0.4950	0.15	20435.4018
	R2401340-001A	Y (360.074 nm)	0.95	0.42	469084.58
	R2401340-001A	Y_R (360.074 nm)	0.95	0.42	468408.36
	R2401340-001A	Zn (213.857 nm)	0.5114	0.05	30032.0799
2/21/2024 22:35:24	R2401340-001L 5X	Ag (328.068 nm)	0.0002	57.12	-261.9832
	R2401340-001L 5X	Al (237.312 nm)	0.1490	1.09	468.4084
	R2401340-001L 5X	As (188.980 nm)	0.0003 u	> 100.00	-13.4104
	R2401340-001L 5X	B (249.772 nm)	0.0119	1.48	474.0261
	R2401340-001L 5X	Ba (230.424 nm)	0.0067	1.97	313.1615
	R2401340-001L 5X	Be (313.107 nm)	0.0000	81.85	-213.3246
	R2401340-001L 5X	Ca (317.933 nm)	9.2829	0.35	376327.5924
	R2401340-001L 5X	Cd (214.439 nm)	0.0000 u	> 100.00	-17.7230
	R2401340-001L 5X	Co (230.786 nm)	-0.0001 u	> 100.00	48.0032
	R2401340-001L 5X	Cr (267.716 nm)	0.0047	4.95	143.2442
	R2401340-001L 5X	Cu (327.395 nm)	0.0001 u	> 100.00	-30.9011
	R2401340-001L 5X	Fe (234.350 nm)	0.2538	0.18	5743.4640
	R2401340-001L 5X	K (766.491 nm)	0.6638	6.30	376.6224
	R2401340-001L 5X	Mg (279.078 nm)	1.9837	0.47	6578.7791
	R2401340-001L 5X	Mn (257.610 nm)	0.0102	0.33	3422.6402
	R2401340-001L 5X	Mo (202.032 nm)	0.0025	14.36	7.1482
	R2401340-001L 5X	Na (588.995 nm)	7.5351	0.53	80710.2998
	R2401340-001L 5X	Ni (230.299 nm)	-0.0002 u	> 100.00	75.1864
	R2401340-001L 5X	Pb (220.353 nm)	0.0004 u	> 100.00	-13.5350
	R2401340-001L 5X	Sb (217.582 nm)	0.0069	15.21	33.8596
	R2401340-001L 5X	Se (196.026 nm)	0.0041	60.82	-3.1932
	R2401340-001L 5X	Sn (189.925 nm)	0.0026	42.86	13.7349
	R2401340-001L 5X	Sr (216.596 nm)	0.0296	0.33	540.9160
	R2401340-001L 5X	Ti (336.122 nm)	0.0031	8.62	276.7173
	R2401340-001L 5X	Tl (190.794 nm)	-0.0012 u	> 100.00	-5.7084
	R2401340-001L 5X	V (292.401 nm)	0.0005	20.70	-54.6601
	R2401340-001L 5X	Y (360.074 nm)	0.99	0.38	487035.60

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401340-001L 5X	Y_R (360.074 nm)	0.99	0.38	486377.49
	R2401340-001L 5X	Zn (213.857 nm)	0.0011	2.82	13.4512
2/21/2024 22:38:38	R2401340-002	Ag (328.068 nm)	-0.0001 u	> 100.00	-277.8477
	R2401340-002	Al (237.312 nm)	0.6141	0.16	1661.9558
	R2401340-002	As (188.980 nm)	0.0011 u	> 100.00	-11.9129
	R2401340-002	B (249.772 nm)	0.0532	0.43	1874.1558
	R2401340-002	Ba (230.424 nm)	0.0327	0.14	1587.8721
	R2401340-002	Be (313.107 nm)	0.0000	11.86	-197.1034
	R2401340-002	Ca (317.933 nm)	46.0223	0.10	1855265.8463
	R2401340-002	Cd (214.439 nm)	0.0001 u	> 100.00	-13.3052
	R2401340-002	Co (230.786 nm)	0.0000 u	> 100.00	49.0848
	R2401340-002	Cr (267.716 nm)	0.0223	0.16	952.2839
	R2401340-002	Cu (327.395 nm)	0.0018	25.30	34.4030
	R2401340-002	Fe (234.350 nm)	1.1218	0.10	25283.8436
	R2401340-002	K (766.491 nm)	3.0525	0.26	2938.5373
	R2401340-002	Mg (279.078 nm)	9.6191	0.16	31959.0992
	R2401340-002	Mn (257.610 nm)	0.0496	0.22	16776.0929
	R2401340-002	Mo (202.032 nm)	0.0014	49.76	-2.1273
	R2401340-002	Na (588.995 nm)	37.8115	0.44	469691.8357
	R2401340-002	Ni (230.299 nm)	0.0000 u	> 100.00	77.4991
	R2401340-002	Pb (220.353 nm)	0.0015 u	> 100.00	-7.4394
	R2401340-002	Sb (217.582 nm)	0.0034	21.17	25.1705
	R2401340-002	Se (196.026 nm)	0.0016 u	> 100.00	-5.3416
	R2401340-002	Sn (189.925 nm)	0.0007	75.67	8.0680
	R2401340-002	Sr (216.596 nm)	0.1485	0.33	2924.0971
	R2401340-002	Ti (336.122 nm)	0.0109	8.05	1328.9946
	R2401340-002	Tl (190.794 nm)	-0.0008 u	> 100.00	-5.2469
	R2401340-002	V (292.401 nm)	0.0012	13.66	-22.5020
	R2401340-002	Y (360.074 nm)	0.96	0.55	473680.78
	R2401340-002	Y_R (360.074 nm)	0.96	0.55	473008.24
	R2401340-002	Zn (213.857 nm)	0.0046	1.15	214.5452
2/21/2024 22:41:52	R2401340-003	Ag (328.068 nm)	0.0001 u	> 100.00	-269.8062
	R2401340-003	Al (237.312 nm)	0.4736	0.53	1301.4320
	R2401340-003	As (188.980 nm)	-0.0001 u	> 100.00	-14.0615
	R2401340-003	B (249.772 nm)	0.0533	0.27	1876.7589
	R2401340-003	Ba (230.424 nm)	0.0286	0.29	1387.4149
	R2401340-003	Be (313.107 nm)	0.0000	13.00	-207.5279
	R2401340-003	Ca (317.933 nm)	39.6315	0.07	1598004.9576
	R2401340-003	Cd (214.439 nm)	0.0001 u	> 100.00	-13.4586
	R2401340-003	Co (230.786 nm)	0.0001 u	> 100.00	51.5078
	R2401340-003	Cr (267.716 nm)	0.1431	0.23	6495.3107
	R2401340-003	Cu (327.395 nm)	0.0017	18.61	31.2393
	R2401340-003	Fe (234.350 nm)	0.9164	0.10	20659.4353
	R2401340-003	K (766.491 nm)	2.8719	0.46	2744.9190
	R2401340-003	Mg (279.078 nm)	9.5918	0.13	31868.1852
	R2401340-003	Mn (257.610 nm)	0.0352	0.20	11901.0507
	R2401340-003	Mo (202.032 nm)	0.0009	12.32	-6.3920
	R2401340-003	Na (588.995 nm)	34.1045	0.33	422065.3593
	R2401340-003	Ni (230.299 nm)	0.0000 u	> 100.00	77.6764
	R2401340-003	Pb (220.353 nm)	0.0015	27.00	-7.3984
	R2401340-003	Sb (217.582 nm)	0.0035	31.94	25.4069
	R2401340-003	Se (196.026 nm)	0.0026 u	> 100.00	-4.4962
	R2401340-003	Sn (189.925 nm)	0.0015	13.17	10.4872
	R2401340-003	Sr (216.596 nm)	0.1152	0.35	2257.3008
	R2401340-003	Ti (336.122 nm)	0.0086	0.53	1008.3337
	R2401340-003	Tl (190.794 nm)	-0.0016 u	29.34	-6.2536
	R2401340-003	V (292.401 nm)	0.0010	17.81	-33.4968

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401340-003	Y (360.074 nm)	0.97	0.41	477776.99
	R2401340-003	Y_R (360.074 nm)	0.97	0.43	477113.75
	R2401340-003	Zn (213.857 nm)	0.0047	2.55	220.4348
2/21/2024 22:45:05	R2401340-004	Ag (328.068 nm)	0.0001 u	> 100.00	-271.5663
	R2401340-004	Al (237.312 nm)	0.5367	0.20	1463.4314
	R2401340-004	As (188.980 nm)	0.0008	65.13	-12.4342
	R2401340-004	B (249.772 nm)	0.0547	0.23	1924.7740
	R2401340-004	Ba (230.424 nm)	0.0293	0.41	1418.0308
	R2401340-004	Be (313.107 nm)	0.0000	27.51	-197.7659
	R2401340-004	Ca (317.933 nm)	38.5294	0.03	1553643.1634
	R2401340-004	Cd (214.439 nm)	0.0001	27.47	-10.8636
	R2401340-004	Co (230.786 nm)	0.0004	77.97	55.5773
	R2401340-004	Cr (267.716 nm)	0.0017	4.25	8.8084
	R2401340-004	Cu (327.395 nm)	0.0018	11.66	34.9486
	R2401340-004	Fe (234.350 nm)	1.0395	0.01	23430.7174
	R2401340-004	K (766.491 nm)	2.7498	2.51	2613.9122
	R2401340-004	Mg (279.078 nm)	9.6899	0.16	32194.2814
	R2401340-004	Mn (257.610 nm)	0.0377	0.06	12749.6349
	R2401340-004	Mo (202.032 nm)	0.0009	56.04	-5.8673
	R2401340-004	Na (588.995 nm)	31.1849	0.36	384554.5752
	R2401340-004	Ni (230.299 nm)	0.0009	49.12	87.8199
	R2401340-004	Pb (220.353 nm)	0.0006	13.60	-12.3665
	R2401340-004	Sb (217.582 nm)	0.0037	25.54	25.9198
	R2401340-004	Se (196.026 nm)	-0.0023 u	> 100.00	-8.5373
	R2401340-004	Sn (189.925 nm)	0.0008	41.70	8.2569
	R2401340-004	Sr (216.596 nm)	0.1113	0.62	2179.3635
	R2401340-004	Ti (336.122 nm)	0.0095	1.23	1139.8743
	R2401340-004	Tl (190.794 nm)	-0.0017 u	18.60	-6.3450
	R2401340-004	V (292.401 nm)	0.0011	3.63	-28.8262
	R2401340-004	Y (360.074 nm)	0.97	0.44	479266.12
	R2401340-004	Y_R (360.074 nm)	0.97	0.44	478843.81
	R2401340-004	Zn (213.857 nm)	0.0064	0.26	324.8308
2/21/2024 22:48:18	R2401340-005	Ag (328.068 nm)	0.0003	60.39	-259.0014
	R2401340-005	Al (237.312 nm)	0.0014	44.25	89.7022
	R2401340-005	As (188.980 nm)	-0.0006 u	> 100.00	-15.0002
	R2401340-005	B (249.772 nm)	0.0010	13.47	104.3325
	R2401340-005	Ba (230.424 nm)	0.0000 u	> 100.00	-14.5885
	R2401340-005	Be (313.107 nm)	0.0000	7.54	-217.1679
	R2401340-005	Ca (317.933 nm)	0.0239	1.18	3606.8137
	R2401340-005	Cd (214.439 nm)	0.0001	2.01	-7.7645
	R2401340-005	Co (230.786 nm)	-0.0002 u	> 100.00	46.4849
	R2401340-005	Cr (267.716 nm)	0.0004	42.81	-52.9209
	R2401340-005	Cu (327.395 nm)	-0.0001 u	> 100.00	-38.0873
	R2401340-005	Fe (234.350 nm)	0.0075	2.70	199.3284
	R2401340-005	K (766.491 nm)	0.0336 u	> 100.00	-299.3898
	R2401340-005	Mg (279.078 nm)	0.0017	40.32	-9.3114
	R2401340-005	Mn (257.610 nm)	0.0006	4.54	152.8596
	R2401340-005	Mo (202.032 nm)	0.0003 u	> 100.00	-11.0849
	R2401340-005	Na (588.995 nm)	0.0806	6.64	-15062.4532
	R2401340-005	Ni (230.299 nm)	0.0001 u	> 100.00	78.0523
	R2401340-005	Pb (220.353 nm)	0.0002 u	> 100.00	-14.6212
	R2401340-005	Sb (217.582 nm)	0.0045	19.24	27.9535
	R2401340-005	Se (196.026 nm)	-0.0006 u	> 100.00	-7.1338
	R2401340-005	Sn (189.925 nm)	0.0011	22.80	9.2926
	R2401340-005	Sr (216.596 nm)	0.0002	48.98	-49.7060
	R2401340-005	Ti (336.122 nm)	-0.0002 u	45.36	-173.3928
	R2401340-005	Tl (190.794 nm)	-0.0035 u	19.70	-8.7052

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401340-005	V (292.401 nm)	0.0001 u	> 100.00	-70.6931
	R2401340-005	Y (360.074 nm)	1.01	0.40	495507.63
	R2401340-005	Y_R (360.074 nm)	1.00	0.39	494556.19
	R2401340-005	Zn (213.857 nm)	0.0036	1.64	155.2657
2/21/2024 22:51:31	Continuing Calibration Verification1	Ag (328.068 nm)	0.5205	0.45	31612.9991
	Continuing Calibration Verification1	Al (237.312 nm)	10.1416	0.31	26111.2668
	Continuing Calibration Verification1	As (188.980 nm)	0.9821	0.25	1808.6273
	Continuing Calibration Verification1	B (249.772 nm)	2.4771	0.18	83986.9326
	Continuing Calibration Verification1	Ba (230.424 nm)	10.3831	0.73	508227.6743
	Continuing Calibration Verification1	Be (313.107 nm)	0.2479	0.15	283211.2032
	Continuing Calibration Verification1	Ca (317.933 nm)	26.0798	0.10	1052483.9348
	Continuing Calibration Verification1	Cd (214.439 nm)	0.5145	0.16	32917.9477
	Continuing Calibration Verification1	Co (230.786 nm)	2.5849	0.31	41898.7028
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5158	0.12	23593.4998
	Continuing Calibration Verification1	Cu (327.395 nm)	1.2581	0.45	48782.8430
	Continuing Calibration Verification1	Fe (234.350 nm)	5.1033	0.11	114915.5024
	Continuing Calibration Verification1	K (766.491 nm)	24.3017	0.34	25729.4987
	Continuing Calibration Verification1	Mg (279.078 nm)	25.2897	0.15	84048.5169
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7568	0.12	256373.7514
	Continuing Calibration Verification1	Mo (202.032 nm)	2.5933	0.26	21478.3883
	Continuing Calibration Verification1	Na (588.995 nm)	25.0680	0.36	305967.3601
	Continuing Calibration Verification1	Ni (230.299 nm)	2.1198	0.13	25794.5393
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5168	0.09	2964.8744
	Continuing Calibration Verification1	Sb (217.582 nm)	5.0349	0.28	12408.7737
	Continuing Calibration Verification1	Se (196.026 nm)	0.4913	0.57	402.4371
	Continuing Calibration Verification1	Sn (189.925 nm)	5.1321	0.12	15638.4282
	Continuing Calibration Verification1	Sr (216.596 nm)	2.5323	0.20	50726.4886
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5549	0.14	343399.6523
	Continuing Calibration Verification1	Tl (190.794 nm)	1.0424	0.26	1327.6604
	Continuing Calibration Verification1	V (292.401 nm)	2.5438	0.10	105322.0026
	Continuing Calibration Verification1	Y (360.074 nm)	0.95	0.57	468659.94
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.95	0.57	467736.80
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9900	0.10	58190.3678
2/21/2024 22:54:45	Continuing Calibration Blank1	Ag (328.068 nm)	0.0002	16.57	-263.7405
	Continuing Calibration Blank1	Al (237.312 nm)	0.0008 u	> 100.00	88.3068
	Continuing Calibration Blank1	As (188.980 nm)	0.0036	26.91	-7.2790
	Continuing Calibration Blank1	B (249.772 nm)	0.0010	17.25	103.4738
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0006	13.92	16.6182
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000	69.65	-205.1853
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0013	20.24	2697.8416
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000 u	> 100.00	-17.9252
	Continuing Calibration Blank1	Co (230.786 nm)	0.0002 u	> 100.00	52.0562
	Continuing Calibration Blank1	Cr (267.716 nm)	-0.0001 u	79.37	-77.4759
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0002 u	> 100.00	-27.4203
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0026	10.63	88.4558
	Continuing Calibration Blank1	K (766.491 nm)	0.0537	29.92	-277.7574
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0008	55.08	-12.3047
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0001	9.30	-11.6082
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0054	8.87	31.3360
	Continuing Calibration Blank1	Na (588.995 nm)	0.0238	7.86	-15793.3370
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0003	> 100.00	81.3013
	Continuing Calibration Blank1	Pb (220.353 nm)	0.0002 u	> 100.00	-14.7447
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0094	26.36	39.8851
	Continuing Calibration Blank1	Se (196.026 nm)	0.0007 u	> 100.00	-6.0228
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0017	22.40	11.1814
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0001	69.62	-51.6774
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0036	25.09	343.1321

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank1	Tl (190.794 nm)	-0.0015 u	16.04	-6.0452
	Continuing Calibration Blank1	V (292.401 nm)	0.0001 u	> 100.00	-69.4140
	Continuing Calibration Blank1	Y (360.074 nm)	1.00	0.13	490462.43
	Continuing Calibration Blank1	Y_R (360.074 nm)	0.99	0.13	489509.85
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0008	9.65	-5.8108
2/21/2024 22:57:59	R2401303-001 10X	Ag (328.068 nm)	0.0000 u	> 100.00	-275.4220
	R2401303-001 10X	Al (237.312 nm)	0.0127	10.33	118.6701
	R2401303-001 10X	As (188.980 nm)	-0.0004 u	> 100.00	-14.6375
	R2401303-001 10X	B (249.772 nm)	0.0017	21.33	129.1673
	R2401303-001 10X	Ba (230.424 nm)	0.0126	1.21	600.6809
	R2401303-001 10X	Be (313.107 nm)	0.0000	13.83	-223.6322
	R2401303-001 10X	Ca (317.933 nm)	28.5332	0.17	1151246.8667
	R2401303-001 10X	Cd (214.439 nm)	0.0000 u	> 100.00	-17.6401
	R2401303-001 10X	Co (230.786 nm)	0.0005	68.79	57.5898
	R2401303-001 10X	Cr (267.716 nm)	-0.0001 u	> 100.00	-73.9573
	R2401303-001 10X	Cu (327.395 nm)	0.0001 u	> 100.00	-29.3405
	R2401303-001 10X	Fe (234.350 nm)	0.0204	0.15	488.9568
	R2401303-001 10X	K (766.491 nm)	0.4075	3.72	101.6532
	R2401303-001 10X	Mg (279.078 nm)	4.5113	0.23	14980.4536
	R2401303-001 10X	Mn (257.610 nm)	0.2338	0.19	79183.9527
	R2401303-001 10X	Mo (202.032 nm)	0.0009	39.37	-5.9472
	R2401303-001 10X	Na (588.995 nm)	11.9575	0.35	137527.4568
	R2401303-001 10X	Ni (230.299 nm)	0.0010	26.24	88.7394
	R2401303-001 10X	Pb (220.353 nm)	0.0000 u	> 100.00	-15.9549
	R2401303-001 10X	Sb (217.582 nm)	0.0022 u	88.04	22.2744
	R2401303-001 10X	Se (196.026 nm)	0.0007 u	> 100.00	-6.0086
	R2401303-001 10X	Sn (189.925 nm)	0.0003	66.03	6.9168
	R2401303-001 10X	Sr (216.596 nm)	0.1293	0.15	2540.2953
	R2401303-001 10X	Ti (336.122 nm)	0.0014	31.02	42.9543
	R2401303-001 10X	Tl (190.794 nm)	-0.0009 u	> 100.00	-5.2704
	R2401303-001 10X	V (292.401 nm)	0.0002	55.33	-66.2120
	R2401303-001 10X	Y (360.074 nm)	0.98	0.30	480623.24
	R2401303-001 10X	Y_R (360.074 nm)	0.97	0.30	479635.98
	R2401303-001 10X	Zn (213.857 nm)	0.0004	17.51	-28.1981
2/21/2024 23:01:12	R2401303-002 10X	Ag (328.068 nm)	0.0002	76.60	-262.7819
	R2401303-002 10X	Al (237.312 nm)	0.0277	3.78	157.1726
	R2401303-002 10X	As (188.980 nm)	0.0016 u	> 100.00	-10.9864
	R2401303-002 10X	B (249.772 nm)	0.0075	0.98	325.9102
	R2401303-002 10X	Ba (230.424 nm)	0.0083	0.82	390.6617
	R2401303-002 10X	Be (313.107 nm)	0.0000 u	> 100.00	-227.1155
	R2401303-002 10X	Ca (317.933 nm)	16.5114	0.08	667311.0990
	R2401303-002 10X	Cd (214.439 nm)	-0.0001 u	97.30	-21.3143
	R2401303-002 10X	Co (230.786 nm)	0.0000 u	> 100.00	49.2124
	R2401303-002 10X	Cr (267.716 nm)	0.0002	30.73	-61.0316
	R2401303-002 10X	Cu (327.395 nm)	-0.0003 u	43.42	-44.6888
	R2401303-002 10X	Fe (234.350 nm)	0.0314	0.84	736.3985
	R2401303-002 10X	K (766.491 nm)	0.8290	1.75	553.7776
	R2401303-002 10X	Mg (279.078 nm)	2.9187	0.12	9686.7984
	R2401303-002 10X	Mn (257.610 nm)	0.0216	0.19	7267.5171
	R2401303-002 10X	Mo (202.032 nm)	0.0006	54.62	-8.1468
	R2401303-002 10X	Na (588.995 nm)	9.7441	0.35	109090.6635
	R2401303-002 10X	Ni (230.299 nm)	0.0008	15.41	86.9301
	R2401303-002 10X	Pb (220.353 nm)	0.0008 u	> 100.00	-11.1967
	R2401303-002 10X	Sb (217.582 nm)	0.0001 u	> 100.00	17.0147
	R2401303-002 10X	Se (196.026 nm)	0.0023	87.52	-4.7408
	R2401303-002 10X	Sn (189.925 nm)	0.0003	26.86	6.7483
	R2401303-002 10X	Sr (216.596 nm)	0.1504	0.22	2962.3004

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401303-002 10X	Ti (336.122 nm)	0.0009	26.84	-26.3589
	R2401303-002 10X	Tl (190.794 nm)	-0.0018 u	32.89	-6.4589
	R2401303-002 10X	V (292.401 nm)	0.0001 u	> 100.00	-68.0666
	R2401303-002 10X	Y (360.074 nm)	0.98	0.31	481759.12
	R2401303-002 10X	Y_R (360.074 nm)	0.98	0.31	480753.29
	R2401303-002 10X	Zn (213.857 nm)	0.0005	14.30	-23.9604
2/21/2024 23:04:26	Continuing Calibration Verification1	Ag (328.068 nm)	0.5214	0.25	31671.6900
	Continuing Calibration Verification1	Al (237.312 nm)	10.1951	0.32	26248.3468
	Continuing Calibration Verification1	As (188.980 nm)	0.9927	0.35	1828.4239
	Continuing Calibration Verification1	B (249.772 nm)	2.4901	0.15	84427.5082
	Continuing Calibration Verification1	Ba (230.424 nm)	10.4581	0.15	511900.1876
	Continuing Calibration Verification1	Be (313.107 nm)	0.2487	0.10	284203.4462
	Continuing Calibration Verification1	Ca (317.933 nm)	26.1168	0.05	1053975.5649
	Continuing Calibration Verification1	Cd (214.439 nm)	0.5165	0.05	33045.2982
	Continuing Calibration Verification1	Co (230.786 nm)	2.5906	0.11	41991.3646
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5162	0.09	23612.3845
	Continuing Calibration Verification1	Cu (327.395 nm)	1.2662	0.34	49096.3555
	Continuing Calibration Verification1	Fe (234.350 nm)	5.1204	0.09	115300.0062
	Continuing Calibration Verification1	K (766.491 nm)	24.4654	0.49	25905.0365
	Continuing Calibration Verification1	Mg (279.078 nm)	25.3637	0.07	84294.5080
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7590	0.08	257118.6686
	Continuing Calibration Verification1	Mo (202.032 nm)	2.6005	0.36	21537.7054
	Continuing Calibration Verification1	Na (588.995 nm)	25.2595	0.61	308427.9032
	Continuing Calibration Verification1	Ni (230.299 nm)	2.1288	0.01	25903.3568
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5182	0.22	2972.7017
	Continuing Calibration Verification1	Sb (217.582 nm)	5.0524	0.30	12451.9849
	Continuing Calibration Verification1	Se (196.026 nm)	0.4948	1.24	405.3892
	Continuing Calibration Verification1	Sn (189.925 nm)	5.1503	0.05	15694.0902
	Continuing Calibration Verification1	Sr (216.596 nm)	2.5401	0.17	50883.0883
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5582	0.08	343844.5117
	Continuing Calibration Verification1	Tl (190.794 nm)	1.0456	0.15	1331.7064
	Continuing Calibration Verification1	V (292.401 nm)	2.5499	0.13	105575.6035
	Continuing Calibration Verification1	Y (360.074 nm)	0.94	0.40	463473.87
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.94	0.41	462525.06
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9948	0.11	58474.0168
2/21/2024 23:07:39	Continuing Calibration Blank1	Ag (328.068 nm)	0.0001	55.27	-268.3531
	Continuing Calibration Blank1	Al (237.312 nm)	0.0009 u	> 100.00	88.3522
	Continuing Calibration Blank1	As (188.980 nm)	0.0033	44.31	-7.8190
	Continuing Calibration Blank1	B (249.772 nm)	0.0013	12.09	115.0699
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0006	17.23	15.4749
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000	24.44	-205.4625
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0015	13.63	2705.7206
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000 u	> 100.00	-17.2176
	Continuing Calibration Blank1	Co (230.786 nm)	0.0001 u	> 100.00	51.8473
	Continuing Calibration Blank1	Cr (267.716 nm)	-0.0001 u	28.74	-76.6399
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0003	28.37	-22.9513
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0027	19.13	91.7943
	Continuing Calibration Blank1	K (766.491 nm)	0.0310	79.37	-302.1005
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0011	74.93	-11.3562
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0001	29.68	-6.7462
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0052	7.91	29.8110
	Continuing Calibration Blank1	Na (588.995 nm)	0.0194	29.69	-15848.9622
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0000 u	> 100.00	77.4486
	Continuing Calibration Blank1	Pb (220.353 nm)	0.0006	> 100.00	-12.4759
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0086	7.51	37.9432
	Continuing Calibration Blank1	Se (196.026 nm)	0.0015	50.11	-5.4065
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0017	36.83	11.1525

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0004	54.01	-46.1103
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0037	29.21	348.8859
	Continuing Calibration Blank1	Tl (190.794 nm)	-0.0002 u	> 100.00	-4.4625
	Continuing Calibration Blank1	V (292.401 nm)	0.0002 u	99.69	-64.4290
	Continuing Calibration Blank1	Y (360.074 nm)	0.99	0.31	487038.94
	Continuing Calibration Blank1	Y_R (360.074 nm)	0.99	0.31	486118.01
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0008	9.27	-6.7437
2/21/2024 23:10:53	Contract Required Detection Limit	Ag (328.068 nm)	0.0100	0.62	338.5648
	Contract Required Detection Limit	Al (237.312 nm)	0.1981	0.52	594.6294
	Contract Required Detection Limit	As (188.980 nm)	0.0197	14.54	22.6393
	Contract Required Detection Limit	B (249.772 nm)	0.1960	0.05	6710.4661
	Contract Required Detection Limit	Ba (230.424 nm)	0.2090	0.17	10214.4561
	Contract Required Detection Limit	Be (313.107 nm)	0.0050	0.11	5456.0509
	Contract Required Detection Limit	Ca (317.933 nm)	1.0260	0.02	43945.8171
	Contract Required Detection Limit	Cd (214.439 nm)	0.0104	0.64	646.7853
	Contract Required Detection Limit	Co (230.786 nm)	0.0518	1.00	887.2707
	Contract Required Detection Limit	Cr (267.716 nm)	0.0101	0.58	394.4052
	Contract Required Detection Limit	Cu (327.395 nm)	0.0251	1.38	940.1884
	Contract Required Detection Limit	Fe (234.350 nm)	0.1110	0.28	2530.1720
	Contract Required Detection Limit	K (766.491 nm)	0.9434	4.71	676.4648
	Contract Required Detection Limit	Mg (279.078 nm)	0.9812	0.22	3246.5078
	Contract Required Detection Limit	Mn (257.610 nm)	0.0155	0.30	5228.9390
	Contract Required Detection Limit	Mo (202.032 nm)	0.0255	2.31	198.0452
	Contract Required Detection Limit	Na (588.995 nm)	0.9570	0.76	-3803.1790
	Contract Required Detection Limit	Ni (230.299 nm)	0.0408	0.85	571.6588
	Contract Required Detection Limit	Pb (220.353 nm)	0.0106	7.64	45.5617
	Contract Required Detection Limit	Sb (217.582 nm)	0.0613	1.65	167.6235
	Contract Required Detection Limit	Se (196.026 nm)	0.0116	36.39	2.9987
	Contract Required Detection Limit	Sn (189.925 nm)	0.5077	0.27	1552.3726
	Contract Required Detection Limit	Sr (216.596 nm)	0.1026	0.22	2004.4263
	Contract Required Detection Limit	Ti (336.122 nm)	0.0505	1.00	6648.4279
	Contract Required Detection Limit	Tl (190.794 nm)	0.0176	6.03	18.2550
	Contract Required Detection Limit	V (292.401 nm)	0.0495	0.42	1978.1930
	Contract Required Detection Limit	Y (360.074 nm)	0.98	0.55	481435.53
	Contract Required Detection Limit	Y_R (360.074 nm)	0.98	0.54	480356.99
	Contract Required Detection Limit	Zn (213.857 nm)	0.0200	0.20	1124.9452
2/21/2024 23:14:07	Interference Check Solution A	Ag (328.068 nm)	0.0000 u	> 100.00	-274.0231
	Interference Check Solution A	Al (237.312 nm)	258.0389 o	0.15	662256.7989
	Interference Check Solution A	As (188.980 nm)	-0.0083 Ku +/-0.01	5.94	-29.3933 K
	Interference Check Solution A	B (249.772 nm)	0.1139	0.28	3928.5639
	Interference Check Solution A	Ba (230.424 nm)	0.0004	13.89	3.7192
	Interference Check Solution A	Be (313.107 nm)	0.0000 u	75.67	-244.4958
	Interference Check Solution A	Ca (317.933 nm)	243.2225 o	0.09	9793535.8922
	Interference Check Solution A	Cd (214.439 nm)	-0.0022 Ku	5.19	-157.5536 K
	Interference Check Solution A	Co (230.786 nm)	0.0015	14.97	74.0871
	Interference Check Solution A	Cr (267.716 nm)	0.0010	15.25	-25.9531
	Interference Check Solution A	Cu (327.395 nm)	0.0002	49.52	-24.7567
	Interference Check Solution A	Fe (234.350 nm)	95.7027 o	0.03	2154464.3631
	Interference Check Solution A	K (766.491 nm)	0.0024 u	> 100.00	-332.8051
	Interference Check Solution A	Mg (279.078 nm)	262.8893 o	0.04	873836.3361
	Interference Check Solution A	Mn (257.610 nm)	0.0014	0.80	439.5194
	Interference Check Solution A	Mo (202.032 nm)	-0.0026 u	22.38	-35.3584
	Interference Check Solution A	Na (588.995 nm)	-0.0881 u	5.27	-17230.0170
	Interference Check Solution A	Ni (230.299 nm)	0.0018	26.75	98.7104
	Interference Check Solution A	Pb (220.353 nm)	-0.0018 u	16.79	-26.5148
	Interference Check Solution A	Sb (217.582 nm)	-0.0053 u	17.75	3.9023
	Interference Check Solution A	Se (196.026 nm)	0.0078	44.26	-0.1675

+/-0.0050

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Interference Check Solution A	Sn (189.925 nm)	0.0031	29.05	15.3968
	Interference Check Solution A	Sr (216.596 nm)	0.0101	4.07	148.9985
	Interference Check Solution A	Ti (336.122 nm)	0.0022	13.31	148.5840
	Interference Check Solution A	Tl (190.794 nm)	-0.0012 u	> 100.00	-5.7237
	Interference Check Solution A	V (292.401 nm)	0.0022	4.67	17.1470
	Interference Check Solution A	Y (360.074 nm)	0.86	0.43	425111.98
	Interference Check Solution A	Y_R (360.074 nm)	0.86	0.43	424292.62
	Interference Check Solution A	Zn (213.857 nm)	0.0116 K +/- 0.02	0.93	628.9191 K
2/21/2024 23:17:21	Interference Check Solution AB	Ag (328.068 nm)	0.2080	0.13	12467.4471
	Interference Check Solution AB	Al (237.312 nm)	260.2355 o	0.17	667893.6312
	Interference Check Solution AB	As (188.980 nm)	0.0916	1.26	156.0653
	Interference Check Solution AB	B (249.772 nm)	0.1298	0.28	4468.5048
	Interference Check Solution AB	Ba (230.424 nm)	0.5358	0.10	26212.0419
	Interference Check Solution AB	Be (313.107 nm)	0.4989	0.30	570276.2497
	Interference Check Solution AB	Ca (317.933 nm)	245.3122 o	0.11	9877655.4505
	Interference Check Solution AB	Cd (214.439 nm)	0.9928	0.19	63530.5810
	Interference Check Solution AB	Co (230.786 nm)	0.4965	0.15	8087.5663
	Interference Check Solution AB	Cr (267.716 nm)	0.5081	0.16	23242.9647
	Interference Check Solution AB	Cu (327.395 nm)	0.5401	0.29	20922.5098
	Interference Check Solution AB	Fe (234.350 nm)	96.5661 o	0.14	2173901.7765
	Interference Check Solution AB	K (766.491 nm)	-0.0173 u	> 100.00	-353.9289
	Interference Check Solution AB	Mg (279.078 nm)	265.2075 o	0.13	881542.1583
	Interference Check Solution AB	Mn (257.610 nm)	0.5001	0.18	169410.9387
	Interference Check Solution AB	Mo (202.032 nm)	-0.0032 u	2.31	-39.8451
	Interference Check Solution AB	Na (588.995 nm)	-0.0836 u	9.37	-17172.0733
	Interference Check Solution AB	Ni (230.299 nm)	1.0105	0.15	12336.8825
	Interference Check Solution AB	Pb (220.353 nm)	0.0477	2.35	259.5170
	Interference Check Solution AB	Sb (217.582 nm)	0.6159	0.91	1532.6590
	Interference Check Solution AB	Se (196.026 nm)	0.0599	8.69	43.2438
	Interference Check Solution AB	Sn (189.925 nm)	0.0033	4.29	15.9675
	Interference Check Solution AB	Sr (216.596 nm)	0.0106	4.75	158.7228
	Interference Check Solution AB	Ti (336.122 nm)	0.0021	11.77	133.7321
	Interference Check Solution AB	Tl (190.794 nm)	0.1018	1.82	125.9298
	Interference Check Solution AB	V (292.401 nm)	0.5126	0.14	21164.3863
	Interference Check Solution AB	Y (360.074 nm)	0.86	0.68	424638.59
	Interference Check Solution AB	Y_R (360.074 nm)	0.86	0.68	423815.42
	Interference Check Solution AB	Zn (213.857 nm)	1.0241	0.21	60198.8811
2/21/2024 23:20:34	Continuing Calibration Verification1	Ag (328.068 nm)	0.5218	0.50	31691.1517
	Continuing Calibration Verification1	Al (237.312 nm)	10.2306	0.26	26339.6116
	Continuing Calibration Verification1	As (188.980 nm)	0.9928	0.10	1828.5017
	Continuing Calibration Verification1	B (249.772 nm)	2.4882	0.06	84364.9265
	Continuing Calibration Verification1	Ba (230.424 nm)	10.4642	0.25	512196.3962
	Continuing Calibration Verification1	Be (313.107 nm)	0.2491	0.06	284641.9773
	Continuing Calibration Verification1	Ca (317.933 nm)	26.1707	0.05	1056144.8508
	Continuing Calibration Verification1	Cd (214.439 nm)	0.5164	0.12	33035.2457
	Continuing Calibration Verification1	Co (230.786 nm)	2.5926	0.19	42022.4925
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5156	0.03	23587.6364
	Continuing Calibration Verification1	Cu (327.395 nm)	1.2640	0.12	49011.2097
	Continuing Calibration Verification1	Fe (234.350 nm)	5.1491	0.05	115945.0479
	Continuing Calibration Verification1	K (766.491 nm)	24.4299	0.40	25867.0352
	Continuing Calibration Verification1	Mg (279.078 nm)	25.3872	0.05	84372.8319
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7590	0.06	257145.6513
	Continuing Calibration Verification1	Mo (202.032 nm)	2.6001	0.38	21535.0886
	Continuing Calibration Verification1	Na (588.995 nm)	25.1787	0.43	307389.2400
	Continuing Calibration Verification1	Ni (230.299 nm)	2.1283	0.02	25898.0645
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5196	0.24	2981.0559
	Continuing Calibration Verification1	Sb (217.582 nm)	5.0517	0.26	12450.0611

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification1	Se (196.026 nm)	0.4993	1.18	409.1310
	Continuing Calibration Verification1	Sn (189.925 nm)	5.1542	0.06	15705.9595
	Continuing Calibration Verification1	Sr (216.596 nm)	2.5461	0.15	51002.7161
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5586	0.14	343905.7488
	Continuing Calibration Verification1	Tl (190.794 nm)	1.0483	0.06	1335.0925
	Continuing Calibration Verification1	V (292.401 nm)	2.5506	0.10	105606.1941
	Continuing Calibration Verification1	Y (360.074 nm)	0.94	0.39	463773.44
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.94	0.39	462799.75
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9944	0.07	58451.2211
2/21/2024 23:23:48	Continuing Calibration Blank1	Ag (328.068 nm)	0.0003	45.95	-255.0454
	Continuing Calibration Blank1	Al (237.312 nm)	0.0034	70.03	94.9399
	Continuing Calibration Blank1	As (188.980 nm)	0.0033	> 100.00	-7.7265
	Continuing Calibration Blank1	B (249.772 nm)	0.0011	27.71	109.9498
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0007	9.04	20.1493
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000	58.90	-213.8075
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0015	21.00	2708.3544
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000 u	> 100.00	-15.2311
	Continuing Calibration Blank1	Co (230.786 nm)	-0.0001 u	> 100.00	48.4167
	Continuing Calibration Blank1	Cr (267.716 nm)	-0.0002 u	86.85	-80.0793
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0001 u	> 100.00	-30.6696
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0034	9.04	106.5033
	Continuing Calibration Blank1	K (766.491 nm)	0.0288 u	> 100.00	-304.5229
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0015	60.44	-10.0166
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0001	23.78	-10.2376
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0052	14.49	29.8368
	Continuing Calibration Blank1	Na (588.995 nm)	0.0054 u	> 100.00	-16029.6200
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0004	92.94	82.5488
	Continuing Calibration Blank1	Pb (220.353 nm)	0.0007	44.51	-11.8463
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0089	15.02	38.7237
	Continuing Calibration Blank1	Se (196.026 nm)	0.0007 u	> 100.00	-6.0140
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0019	55.77	11.8319
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0002	72.46	-49.4715
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0037	25.34	351.0654
	Continuing Calibration Blank1	Tl (190.794 nm)	-0.0009 u	71.10	-5.3037
	Continuing Calibration Blank1	V (292.401 nm)	0.0003	19.05	-61.3007
	Continuing Calibration Blank1	Y (360.074 nm)	0.98	0.44	484774.20
	Continuing Calibration Blank1	Y_R (360.074 nm)	0.98	0.44	483688.10
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0008	3.61	-4.8998
2/21/2024 23:27:02	PBS-434308	Ag (328.068 nm)	0.0000 u	> 100.00	-275.2155
	PBS-434308	Al (237.312 nm)	0.0000 u	> 100.00	86.1139
	PBS-434308	As (188.980 nm)	0.0024	50.78	-9.4189
	PBS-434308	B (249.772 nm)	0.0019	3.01	134.7312
	PBS-434308	Ba (230.424 nm)	0.0000 u	> 100.00	-14.8874
	PBS-434308	Be (313.107 nm)	0.0000	56.99	-221.9881
	PBS-434308	Ca (317.933 nm)	0.0060	4.94	2886.9031
	PBS-434308	Cd (214.439 nm)	0.0001	66.19	-8.4484
	PBS-434308	Co (230.786 nm)	-0.0004 u	34.80	42.8934
	PBS-434308	Cr (267.716 nm)	0.0004	18.06	-50.8724
	PBS-434308	Cu (327.395 nm)	0.0000 u	> 100.00	-34.6214
	PBS-434308	Fe (234.350 nm)	0.0082	8.67	215.4877
	PBS-434308	K (766.491 nm)	0.0094 u	> 100.00	-325.2901
	PBS-434308	Mg (279.078 nm)	0.0004 u	> 100.00	-13.6695
	PBS-434308	Mn (257.610 nm)	0.0002	3.39	22.3489
	PBS-434308	Mo (202.032 nm)	0.0009	15.51	-6.2305
	PBS-434308	Na (588.995 nm)	0.0154	41.09	-15900.0067
	PBS-434308	Ni (230.299 nm)	-0.0008 u	10.64	67.7656
	PBS-434308	Pb (220.353 nm)	0.0001 u	> 100.00	-15.5042

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	PBS-434308	Sb (217.582 nm)	0.0024	68.46	22.8209
	PBS-434308	Se (196.026 nm)	-0.0009 u	> 100.00	-7.3914
	PBS-434308	Sn (189.925 nm)	0.0075	14.52	28.6692
	PBS-434308	Sr (216.596 nm)	0.0001 u	> 100.00	-51.6881
	PBS-434308	Ti (336.122 nm)	0.0010	75.41	-14.6707
	PBS-434308	Tl (190.794 nm)	-0.0034 u	43.59	-8.5787
	PBS-434308	V (292.401 nm)	0.0000	65.20	-72.1715
	PBS-434308	Y (360.074 nm)	0.98	0.72	484677.08
	PBS-434308	Y_R (360.074 nm)	0.98	0.72	483552.97
	PBS-434308	Zn (213.857 nm)	0.0005	8.39	-24.2896
2/21/2024 23:30:15	LCSS-434308	Ag (328.068 nm)	0.0504	0.23	2813.0383
	LCSS-434308	Al (237.312 nm)	1.9246	0.47	5024.9327
	LCSS-434308	As (188.980 nm)	0.0375	4.60	55.6322
	LCSS-434308	B (249.772 nm)	0.9537	0.09	32378.8274
	LCSS-434308	Ba (230.424 nm)	2.0492	0.12	100291.7142
	LCSS-434308	Be (313.107 nm)	0.0481	0.08	54772.9282
	LCSS-434308	Ca (317.933 nm)	2.0396	0.02	84748.2806
	LCSS-434308	Cd (214.439 nm)	0.0508	0.38	3231.9956
	LCSS-434308	Co (230.786 nm)	0.5151	0.10	8389.4609
	LCSS-434308	Cr (267.716 nm)	0.2003	0.10	9118.5252
	LCSS-434308	Cu (327.395 nm)	0.2527	0.43	9772.3482
	LCSS-434308	Fe (234.350 nm)	1.0105	0.04	22778.4701
	LCSS-434308	K (766.491 nm)	18.5925	0.48	19606.0700
	LCSS-434308	Mg (279.078 nm)	1.9137	0.12	6346.2290
	LCSS-434308	Mn (257.610 nm)	0.4951	0.03	167707.1758
	LCSS-434308	Mo (202.032 nm)	0.4978	0.40	4111.6257
	LCSS-434308	Na (588.995 nm)	19.2118	0.52	230728.7627
	LCSS-434308	Ni (230.299 nm)	0.5249	0.12	6444.6449
	LCSS-434308	Pb (220.353 nm)	0.5076	0.07	2911.5081
	LCSS-434308	Sb (217.582 nm)	0.4818	0.85	1202.6227
	LCSS-434308	Se (196.026 nm)	0.9271	0.77	765.3355
	LCSS-434308	Sn (189.925 nm)	5.0160	0.08	15285.0706
	LCSS-434308	Sr (216.596 nm)	2.0391	0.02	40836.3812
	LCSS-434308	Ti (336.122 nm)	0.4998	0.05	67064.9222
	LCSS-434308	Tl (190.794 nm)	1.9915	0.27	2540.2028
	LCSS-434308	V (292.401 nm)	0.4951	0.13	20440.4266
	LCSS-434308	Y (360.074 nm)	0.96	0.44	474037.89
	LCSS-434308	Y_R (360.074 nm)	0.96	0.44	473036.95
	LCSS-434308	Zn (213.857 nm)	0.4979	0.15	29237.7350
2/21/2024 23:33:29	R2401222-001	Ag (328.068 nm)	-0.0095 u	1.37	-857.6381
	R2401222-001	Al (237.312 nm)	4.5964	0.33	11881.1602
	R2401222-001	As (188.980 nm)	0.3475	0.71	630.9079
	R2401222-001	B (249.772 nm)	0.1199	0.25	4131.8228
	R2401222-001	Ba (230.424 nm)	0.8337	0.32	40795.3980
	R2401222-001	Be (313.107 nm)	-0.0058 u	0.20	-6826.7011
	R2401222-001	Ca (317.933 nm)	56.6467 o	0.12	2282952.5856
	R2401222-001	Cd (214.439 nm)	0.0012	3.56	60.9909
	R2401222-001	Co (230.786 nm)	0.0052	6.94	133.3005
	R2401222-001	Cr (267.716 nm)	0.0949	0.31	4283.5654
	R2401222-001	Cu (327.395 nm)	1.0697	0.39	41471.0524
	R2401222-001	Fe (234.350 nm)	75.0859 o	0.08	1690344.6208
	R2401222-001	K (766.491 nm)	2.9354	0.79	2813.0049
	R2401222-001	Mg (279.078 nm)	6.5856	0.13	21875.4784
	R2401222-001	Mn (257.610 nm)	0.4149	0.03	140539.3270
	R2401222-001	Mo (202.032 nm)	0.0167	4.21	125.0364
	R2401222-001	Na (588.995 nm)	1.2613	0.18	106.1943
	R2401222-001	Ni (230.299 nm)	0.0210	2.64	332.1617

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401222-001	Pb (220.353 nm)	0.0452	1.18	244.7801
	R2401222-001	Sb (217.582 nm)	0.0342	19.18	100.9347
	R2401222-001	Se (196.026 nm)	0.0073	42.94	-0.5595
	R2401222-001	Sn (189.925 nm)	0.0855	2.16	266.2816
	R2401222-001	Sr (216.596 nm)	0.2778	0.07	5518.1500
	R2401222-001	Ti (336.122 nm)	0.1783	0.08	23829.8076
	R2401222-001	Tl (190.794 nm)	-0.0811 u	0.96	-107.8420
	R2401222-001	V (292.401 nm)	0.0154	0.93	563.6900
	R2401222-001	Y (360.074 nm)	0.96	0.45	470646.62
	R2401222-001	Y_R (360.074 nm)	0.95	0.45	469755.62
	R2401222-001	Zn (213.857 nm)	1.5453	0.39	90857.7963
2/21/2024 23:36:43	R2401252-003	Ag (328.068 nm)	0.0114	1.52	425.0712
	R2401252-003	Al (237.312 nm)	22.9300 o	0.25	58928.4610
	R2401252-003	As (188.980 nm)	0.0154	11.82	14.6075
	R2401252-003	B (249.772 nm)	0.2140	0.35	7322.2642
	R2401252-003	Ba (230.424 nm)	2.4575	0.37	120279.1566
	R2401252-003	Be (313.107 nm)	0.0006	1.72	501.6180
	R2401252-003	Ca (317.933 nm)	161.2972 o	0.11	6495643.7944
	R2401252-003	Cd (214.439 nm)	0.0110	0.50	684.1930
	R2401252-003	Co (230.786 nm)	0.0183	2.15	346.1979
	R2401252-003	Cr (267.716 nm)	0.1302	0.07	5902.8481
	R2401252-003	Cu (327.395 nm)	4.2932 o	0.64	166550.9150
	R2401252-003	Fe (234.350 nm)	47.6052 o	0.02	1071707.2786
	R2401252-003	K (766.491 nm)	20.3993	0.43	21543.9221
	R2401252-003	Mg (279.078 nm)	20.9551	0.06	69640.3721
	R2401252-003	Mn (257.610 nm)	1.5206	0.02	515196.9527
	R2401252-003	Mo (202.032 nm)	0.0811	1.12	658.3862
	R2401252-003	Na (588.995 nm)	6.0736	0.32	61933.6862
	R2401252-003	Ni (230.299 nm)	0.0683	0.66	905.9654
	R2401252-003	Pb (220.353 nm)	0.1859	0.38	1056.5291
	R2401252-003	Sb (217.582 nm)	0.0466	8.93	131.5756
	R2401252-003	Se (196.026 nm)	0.0430	3.50	29.1725
	R2401252-003	Sn (189.925 nm)	0.2994	0.42	917.9430
	R2401252-003	Sr (216.596 nm)	0.3534	0.04	7034.2664
	R2401252-003	Ti (336.122 nm)	0.4589	0.70	61569.6329
	R2401252-003	Tl (190.794 nm)	-0.0024 u	17.04	-7.2803
	R2401252-003	V (292.401 nm)	0.0355	0.61	1394.7002
	R2401252-003	Y (360.074 nm)	0.94	0.50	463959.54
	R2401252-003	Y_R (360.074 nm)	0.94	0.50	463068.61
	R2401252-003	Zn (213.857 nm)	6.8964 o	0.31	405683.8737
2/21/2024 23:39:56	R2401252-004	Ag (328.068 nm)	0.0124	2.31	483.5533
	R2401252-004	Al (237.312 nm)	23.3348 o	0.30	59967.0796
	R2401252-004	As (188.980 nm)	0.0189	8.18	21.2344
	R2401252-004	B (249.772 nm)	0.2374	0.11	8112.7596
	R2401252-004	Ba (230.424 nm)	2.5517	0.46	124888.5356
	R2401252-004	Be (313.107 nm)	0.0006	0.49	495.0500
	R2401252-004	Ca (317.933 nm)	174.5028 o	0.04	7027231.7689
	R2401252-004	Cd (214.439 nm)	0.0124	0.76	776.9341
	R2401252-004	Co (230.786 nm)	0.0184	0.32	347.3879
	R2401252-004	Cr (267.716 nm)	0.1321	0.27	5989.1928
	R2401252-004	Cu (327.395 nm)	4.4621 o	0.54	173105.9545
	R2401252-004	Fe (234.350 nm)	45.9719 o	0.05	1034938.2126
	R2401252-004	K (766.491 nm)	23.9303	0.28	25331.1412
	R2401252-004	Mg (279.078 nm)	22.7910	0.06	75742.6772
	R2401252-004	Mn (257.610 nm)	1.6389	0.10	555269.8016
	R2401252-004	Mo (202.032 nm)	0.0786	0.90	638.1472
	R2401252-004	Na (588.995 nm)	6.0182	0.32	61220.9331

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401252-004	Ni (230.299 nm)	0.0675	1.08	895.5334
	R2401252-004	Pb (220.353 nm)	0.1792	0.24	1017.3677
	R2401252-004	Sb (217.582 nm)	0.0582	14.30	160.0361
	R2401252-004	Se (196.026 nm)	0.0429	16.22	29.0649
	R2401252-004	Sn (189.925 nm)	0.2988	0.29	916.1451
	R2401252-004	Sr (216.596 nm)	0.3711	0.06	7389.3084
	R2401252-004	Ti (336.122 nm)	0.5739	0.37	77033.5384
	R2401252-004	Tl (190.794 nm)	-0.0048 u	28.76	-10.2532
	R2401252-004	V (292.401 nm)	0.0354	0.34	1394.3958
	R2401252-004	Y (360.074 nm)	0.94	0.65	463377.59
	R2401252-004	Y_R (360.074 nm)	0.94	0.65	462506.18
	R2401252-004	Zn (213.857 nm)	7.0473 o	0.31	414560.8206
2/21/2024 23:43:10	R2401281-001	Ag (328.068 nm)	0.0098	1.95	325.9989
	R2401281-001	Al (237.312 nm)	214.1798 o	0.09	549707.0456
	R2401281-001	As (188.980 nm)	0.0295	12.55	40.9032
	R2401281-001	B (249.772 nm)	0.5680	0.10	19311.7858
	R2401281-001	Ba (230.424 nm)	1.3428	0.23	65713.9175
	R2401281-001	Be (313.107 nm)	0.0019	0.48	1967.6166
	R2401281-001	Ca (317.933 nm)	370.7007 o	0.14	14925151.0514
	R2401281-001	Cd (214.439 nm)	0.0154	0.71	968.1333
	R2401281-001	Co (230.786 nm)	0.0924	0.40	1544.6421
	R2401281-001	Cr (267.716 nm)	0.2789	0.02	12724.9864
	R2401281-001	Cu (327.395 nm)	2.7500 o	0.58	106670.8729
	R2401281-001	Fe (234.350 nm)	68.8051 o	0.05	1548953.9898
	R2401281-001	K (766.491 nm)	36.5431	0.26	38859.1139
	R2401281-001	Mg (279.078 nm)	22.5600	0.08	74975.0360
	R2401281-001	Mn (257.610 nm)	2.5519 o	0.03	864596.0363
	R2401281-001	Mo (202.032 nm)	0.0276	2.40	215.3351
	R2401281-001	Na (588.995 nm)	64.5611 o	0.36	813361.1606
	R2401281-001	Ni (230.299 nm)	0.2621	0.31	3257.1574
	R2401281-001	Pb (220.353 nm)	0.8808	0.13	5064.0810
	R2401281-001	Sb (217.582 nm)	0.0676	4.05	183.1572
	R2401281-001	Se (196.026 nm)	0.0067	78.11	-1.0186
	R2401281-001	Sn (189.925 nm)	0.3100	0.62	950.1497
	R2401281-001	Sr (216.596 nm)	0.7336	0.01	14656.6012
	R2401281-001	Ti (336.122 nm)	0.4230	0.24	56736.3883
	R2401281-001	Tl (190.794 nm)	-0.0047 u	28.18	-10.1887
	R2401281-001	V (292.401 nm)	0.0569	0.32	2285.0718
	R2401281-001	Y (360.074 nm)	0.91	0.58	446281.61
	R2401281-001	Y_R (360.074 nm)	0.90	0.58	445424.94
	R2401281-001	Zn (213.857 nm)	6.2304 o	0.37	366497.9945
2/21/2024 23:46:24	R2401312-001	Ag (328.068 nm)	0.0013	12.37	-195.5407
	R2401312-001	Al (237.312 nm)	105.7072 o	0.20	271348.5040
	R2401312-001	As (188.980 nm)	0.1049	1.43	180.6896
	R2401312-001	B (249.772 nm)	0.2739	0.10	9350.0124
	R2401312-001	Ba (230.424 nm)	1.8871	0.20	92355.6466
	R2401312-001	Be (313.107 nm)	0.0050	0.14	5520.7488
	R2401312-001	Ca (317.933 nm)	35.6714	0.10	1438591.8075
	R2401312-001	Cd (214.439 nm)	0.0251	0.82	1590.9663
	R2401312-001	Co (230.786 nm)	0.0913	0.80	1527.5311
	R2401312-001	Cr (267.716 nm)	0.1819	0.11	8275.4531
	R2401312-001	Cu (327.395 nm)	0.2091	0.19	8078.2656
	R2401312-001	Fe (234.350 nm)	190.9549 o	0.13	4298757.2271
	R2401312-001	K (766.491 nm)	10.4654	0.66	10889.2813
	R2401312-001	Mg (279.078 nm)	29.4285	0.08	97806.0119
	R2401312-001	Mn (257.610 nm)	4.9051 o	0.08	1661928.5831
	R2401312-001	Mo (202.032 nm)	0.0012	37.56	-3.3986

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401312-001	Na (588.995 nm)	0.4771	0.23	-9968.4782
	R2401312-001	Ni (230.299 nm)	0.2067	0.22	2584.3661
	R2401312-001	Pb (220.353 nm)	1.5208 o	0.08	8754.7758
	R2401312-001	Sb (217.582 nm)	0.0129	24.11	48.6936
	R2401312-001	Se (196.026 nm)	0.0109	18.21	2.4217
	R2401312-001	Sn (189.925 nm)	0.5212	0.13	1593.6264
	R2401312-001	Sr (216.596 nm)	0.1767	0.12	3489.9656
	R2401312-001	Ti (336.122 nm)	0.7206	0.59	96750.4009
	R2401312-001	Tl (190.794 nm)	-0.0040 u	33.93	-9.3157
	R2401312-001	V (292.401 nm)	0.1969	0.21	8084.1307
	R2401312-001	Y (360.074 nm)	1.00	0.50	490428.00
	R2401312-001	Y_R (360.074 nm)	0.99	0.50	489423.64
	R2401312-001	Zn (213.857 nm)	1.9224	0.28	113048.6239
2/21/2024 23:49:39	R2401333-001	Ag (328.068 nm)	0.0000 u	> 100.00	-272.3940
	R2401333-001	Al (237.312 nm)	47.7421 o	0.27	122600.4079
	R2401333-001	As (188.980 nm)	0.0209	4.72	24.8127
	R2401333-001	B (249.772 nm)	0.1588	0.19	5450.2629
	R2401333-001	Ba (230.424 nm)	0.2935	0.10	14350.3131
	R2401333-001	Be (313.107 nm)	0.0028	0.74	2915.5479
	R2401333-001	Ca (317.933 nm)	11.3174	0.05	458225.4606
	R2401333-001	Cd (214.439 nm)	-0.0003 u	35.87	-36.3840
	R2401333-001	Co (230.786 nm)	0.0669	0.80	1132.4528
	R2401333-001	Cr (267.716 nm)	0.1065	0.11	4814.8174
	R2401333-001	Cu (327.395 nm)	0.1250	0.26	4817.2494
	R2401333-001	Fe (234.350 nm)	122.4797 o	0.04	2757261.8898
	R2401333-001	K (766.491 nm)	5.6849	0.76	5761.9361
	R2401333-001	Mg (279.078 nm)	28.8342	0.09	95830.6754
	R2401333-001	Mn (257.610 nm)	2.9671 o	0.06	1005296.2383
	R2401333-001	Mo (202.032 nm)	0.0002 u	> 100.00	-11.5270
	R2401333-001	Na (588.995 nm)	0.6913	0.45	-7216.8460
	R2401333-001	Ni (230.299 nm)	0.5604	0.29	6876.3785
	R2401333-001	Pb (220.353 nm)	0.1364	0.42	770.7202
	R2401333-001	Sb (217.582 nm)	-0.0021 u	40.33	11.5889
	R2401333-001	Se (196.026 nm)	0.0000 u	> 100.00	-6.6098
	R2401333-001	Sn (189.925 nm)	0.0166	4.18	56.6492
	R2401333-001	Sr (216.596 nm)	0.0652	0.31	1254.6317
	R2401333-001	Ti (336.122 nm)	2.3714	0.26	318735.9859
	R2401333-001	Tl (190.794 nm)	-0.0112 u	7.43	-18.4411
	R2401333-001	V (292.401 nm)	0.1536	0.27	6288.9621
	R2401333-001	Y (360.074 nm)	0.99	0.45	489906.72
	R2401333-001	Y_R (360.074 nm)	0.99	0.45	488867.12
	R2401333-001	Zn (213.857 nm)	0.5569	0.18	32707.3960
2/21/2024 23:52:55	R2401333-002	Ag (328.068 nm)	0.0003	11.21	-254.1288
	R2401333-002	Al (237.312 nm)	75.0659 o	0.24	192717.6516
	R2401333-002	As (188.980 nm)	0.0343	9.34	49.8256
	R2401333-002	B (249.772 nm)	0.1910	0.16	6541.7189
	R2401333-002	Ba (230.424 nm)	0.6240	0.04	30528.4609
	R2401333-002	Be (313.107 nm)	0.0036	0.26	3929.8572
	R2401333-002	Ca (317.933 nm)	13.1605	0.33	532421.6484
	R2401333-002	Cd (214.439 nm)	0.0000 u	> 100.00	-17.7456
	R2401333-002	Co (230.786 nm)	0.0818	0.36	1374.2962
	R2401333-002	Cr (267.716 nm)	0.2071	0.06	9433.1138
	R2401333-002	Cu (327.395 nm)	0.1922	0.08	7423.9579
	R2401333-002	Fe (234.350 nm)	145.9081 o	0.05	3284674.7331
	R2401333-002	K (766.491 nm)	8.3001	0.27	8566.9440
	R2401333-002	Mg (279.078 nm)	37.0086	0.04	123002.6011
	R2401333-002	Mn (257.610 nm)	3.1121 o	0.01	1054430.8227

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401333-002	Mo (202.032 nm)	0.0017	6.56	0.3130
	R2401333-002	Na (588.995 nm)	0.8639	0.37	-4999.0196
	R2401333-002	Ni (230.299 nm)	0.8135	0.04	9946.7508
	R2401333-002	Pb (220.353 nm)	0.5963	0.28	3423.0707
	R2401333-002	Sb (217.582 nm)	-0.0057 u	40.40	2.9052
	R2401333-002	Se (196.026 nm)	0.0071	24.94	-0.7337
	R2401333-002	Sn (189.925 nm)	0.0291	1.91	94.4620
	R2401333-002	Sr (216.596 nm)	0.1069	0.55	2090.0869
	R2401333-002	Ti (336.122 nm)	3.9883	0.04	536150.4589
	R2401333-002	Tl (190.794 nm)	-0.0141 u	8.00	-22.2131
	R2401333-002	V (292.401 nm)	0.2306	0.13	9481.7963
	R2401333-002	Y (360.074 nm)	0.99	0.49	486932.60
	R2401333-002	Y_R (360.074 nm)	0.99	0.48	485903.26
	R2401333-002	Zn (213.857 nm)	0.6757	0.33	39696.9382
2/21/2024 23:56:10	R2401333-003	Ag (328.068 nm)	0.0010	8.21	-211.2782
	R2401333-003	Al (237.312 nm)	76.5092 o	0.23	196421.4808
	R2401333-003	As (188.980 nm)	0.0327	7.08	46.6888
	R2401333-003	B (249.772 nm)	0.1701	0.07	5832.5264
	R2401333-003	Ba (230.424 nm)	0.6213	0.12	30396.9376
	R2401333-003	Be (313.107 nm)	0.0036	0.21	3838.6926
	R2401333-003	Ca (317.933 nm)	12.8799	0.07	521123.9445
	R2401333-003	Cd (214.439 nm)	0.0002	34.08	-5.3537
	R2401333-003	Co (230.786 nm)	0.0756	0.12	1273.3177
	R2401333-003	Cr (267.716 nm)	0.1775	0.08	8075.2288
	R2401333-003	Cu (327.395 nm)	0.1834	0.03	7082.3994
	R2401333-003	Fe (234.350 nm)	129.2752 o	0.03	2910239.4286
	R2401333-003	K (766.491 nm)	6.5411	0.27	6680.2682
	R2401333-003	Mg (279.078 nm)	29.8885	0.12	99335.1859
	R2401333-003	Mn (257.610 nm)	2.2910 o	0.06	776202.8591
	R2401333-003	Mo (202.032 nm)	0.0016	11.69	-0.1551
	R2401333-003	Na (588.995 nm)	0.7645	0.24	-6276.1353
	R2401333-003	Ni (230.299 nm)	0.5174	0.35	6354.2653
	R2401333-003	Pb (220.353 nm)	0.6915	0.25	3972.1027
	R2401333-003	Sb (217.582 nm)	-0.0046 u	37.98	5.4652
	R2401333-003	Se (196.026 nm)	0.0073	29.86	-0.5133
	R2401333-003	Sn (189.925 nm)	0.0396	1.31	126.6383
	R2401333-003	Sr (216.596 nm)	0.0975	0.40	1902.8404
	R2401333-003	Ti (336.122 nm)	2.9044	0.14	390408.1184
	R2401333-003	Tl (190.794 nm)	-0.0118 u	3.58	-19.2269
	R2401333-003	V (292.401 nm)	0.2027	0.13	8322.5406
	R2401333-003	Y (360.074 nm)	0.99	0.46	488177.61
	R2401333-003	Y_R (360.074 nm)	0.99	0.46	487106.26
	R2401333-003	Zn (213.857 nm)	0.7202	0.22	42314.8012
2/21/2024 23:59:25	Continuing Calibration Verification2	Ag (328.068 nm)	0.5239	0.20	31822.6888
	Continuing Calibration Verification2	Al (237.312 nm)	10.3041	0.31	26528.2088
	Continuing Calibration Verification2	As (188.980 nm)	0.9985	0.29	1839.1444
	Continuing Calibration Verification2	B (249.772 nm)	2.4998	0.09	84756.4067
	Continuing Calibration Verification2	Ba (230.424 nm)	10.4971	0.21	513809.4263
	Continuing Calibration Verification2	Be (313.107 nm)	0.2504	0.07	286166.3345
	Continuing Calibration Verification2	Ca (317.933 nm)	26.2992	0.06	1061318.4596
	Continuing Calibration Verification2	Cd (214.439 nm)	0.5196	0.10	33242.1697
	Continuing Calibration Verification2	Co (230.786 nm)	2.6062	0.17	42242.6259
	Continuing Calibration Verification2	Cr (267.716 nm)	0.5189	0.11	23739.0870
	Continuing Calibration Verification2	Cu (327.395 nm)	1.2733	0.28	49370.8107
	Continuing Calibration Verification2	Fe (234.350 nm)	5.1998	0.04	117087.1843
	Continuing Calibration Verification2	K (766.491 nm)	24.6186	0.26	26069.3976
	Continuing Calibration Verification2	Mg (279.078 nm)	25.4785	0.06	84676.1569

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification2	Mn (257.610 nm)	0.7652	0.09	259222.1639
	Continuing Calibration Verification2	Mo (202.032 nm)	2.6165	0.49	21670.3481
	Continuing Calibration Verification2	Na (588.995 nm)	25.3223	0.36	309234.8132
	Continuing Calibration Verification2	Ni (230.299 nm)	2.1436	0.14	26083.4389
	Continuing Calibration Verification2	Pb (220.353 nm)	0.5228	0.19	2999.4684
	Continuing Calibration Verification2	Sb (217.582 nm)	5.0751	0.19	12507.8220
	Continuing Calibration Verification2	Se (196.026 nm)	0.4939	0.42	404.6309
	Continuing Calibration Verification2	Sn (189.925 nm)	5.1846	0.11	15798.3732
	Continuing Calibration Verification2	Sr (216.596 nm)	2.5622	0.23	51326.1502
	Continuing Calibration Verification2	Ti (336.122 nm)	2.5770	0.04	346374.9255
	Continuing Calibration Verification2	Tl (190.794 nm)	1.0563	0.41	1345.3748
	Continuing Calibration Verification2	V (292.401 nm)	2.5648	0.08	106193.0170
	Continuing Calibration Verification2	Y (360.074 nm)	0.95	0.49	465588.37
	Continuing Calibration Verification2	Y_R (360.074 nm)	0.94	0.49	464599.29
	Continuing Calibration Verification2	Zn (213.857 nm)	0.9998	0.12	58765.4410
2/22/2024 00:02:39	Continuing Calibration Blank2	Ag (328.068 nm)	0.0001 u	> 100.00	-268.8247
	Continuing Calibration Blank2	Al (237.312 nm)	0.0008 u	91.34	88.2907
	Continuing Calibration Blank2	As (188.980 nm)	0.0023	32.86	-9.5918
	Continuing Calibration Blank2	B (249.772 nm)	0.0010	33.37	105.4167
	Continuing Calibration Blank2	Ba (230.424 nm)	0.0001	64.69	-9.8262
	Continuing Calibration Blank2	Be (313.107 nm)	0.0000 u	> 100.00	-225.6634
	Continuing Calibration Blank2	Ca (317.933 nm)	-0.0012 u	13.65	2599.6948
	Continuing Calibration Blank2	Cd (214.439 nm)	0.0000 u	40.24	-20.0879
	Continuing Calibration Blank2	Co (230.786 nm)	-0.0001 u	> 100.00	47.4067
	Continuing Calibration Blank2	Cr (267.716 nm)	-0.0001 u	> 100.00	-75.3945
	Continuing Calibration Blank2	Cu (327.395 nm)	0.0000 u	> 100.00	-34.8119
	Continuing Calibration Blank2	Fe (234.350 nm)	0.0093	26.91	239.3517
	Continuing Calibration Blank2	K (766.491 nm)	0.0257 u	> 100.00	-307.8466
	Continuing Calibration Blank2	Mg (279.078 nm)	-0.0016 u	67.57	-20.4294
	Continuing Calibration Blank2	Mn (257.610 nm)	0.0000	38.00	-20.1096
	Continuing Calibration Blank2	Mo (202.032 nm)	0.0057	12.16	33.5967
	Continuing Calibration Blank2	Na (588.995 nm)	0.0113	7.41	-15953.2375
	Continuing Calibration Blank2	Ni (230.299 nm)	0.0002 u	> 100.00	79.7855
	Continuing Calibration Blank2	Pb (220.353 nm)	0.0004	53.36	-13.5610
	Continuing Calibration Blank2	Sb (217.582 nm)	0.0072	13.66	34.6026
	Continuing Calibration Blank2	Se (196.026 nm)	-0.0008 u	> 100.00	-7.3398
	Continuing Calibration Blank2	Sn (189.925 nm)	0.0015	55.63	10.6550
	Continuing Calibration Blank2	Sr (216.596 nm)	0.0001 u	> 100.00	-51.6927
	Continuing Calibration Blank2	Ti (336.122 nm)	0.0099	29.23	1190.9377
	Continuing Calibration Blank2	Tl (190.794 nm)	-0.0020 u	76.12	-6.7767
	Continuing Calibration Blank2	V (292.401 nm)	0.0002	61.42	-64.4808
	Continuing Calibration Blank2	Y (360.074 nm)	0.99	0.19	486731.60
	Continuing Calibration Blank2	Y_R (360.074 nm)	0.99	0.19	485649.46
	Continuing Calibration Blank2	Zn (213.857 nm)	0.0009	6.31	-2.1663
2/22/2024 00:05:53	R2401333-003S	Ag (328.068 nm)	0.0488	0.43	2716.9210
	R2401333-003S	Al (237.312 nm)	84.2888 o	0.25	216385.2554
	R2401333-003S	As (188.980 nm)	0.0753	3.29	125.9174
	R2401333-003S	B (249.772 nm)	1.0297	0.13	34953.5621
	R2401333-003S	Ba (230.424 nm)	2.7369	0.04	133954.1146
	R2401333-003S	Be (313.107 nm)	0.0503	0.08	57271.8687
	R2401333-003S	Ca (317.933 nm)	14.9215	0.04	603309.5930
	R2401333-003S	Cd (214.439 nm)	0.0481	0.19	3059.3741
	R2401333-003S	Co (230.786 nm)	0.5480	0.12	8921.3063
	R2401333-003S	Cr (267.716 nm)	0.3276	0.04	14958.7827
	R2401333-003S	Cu (327.395 nm)	0.4153	0.19	16081.5611
	R2401333-003S	Fe (234.350 nm)	120.3369 o	0.07	2709023.8385
	R2401333-003S	K (766.491 nm)	23.9087	0.33	25307.9879

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401333-003S	Mg (279.078 nm)	23.4320	0.08	77873.4492
	R2401333-003S	Mn (257.610 nm)	3.0452 o	0.04	1031766.7846
	R2401333-003S	Mo (202.032 nm)	0.4736	0.35	3911.2638
	R2401333-003S	Na (588.995 nm)	19.5672	0.39	235294.0347
	R2401333-003S	Ni (230.299 nm)	0.8635	0.21	10552.5780
	R2401333-003S	Pb (220.353 nm)	1.1428 o	0.28	6575.1832
	R2401333-003S	Sb (217.582 nm)	0.3437	0.10	862.6630
	R2401333-003S	Se (196.026 nm)	0.9044	1.12	746.4184
	R2401333-003S	Sn (189.925 nm)	4.8242	0.12	14700.7903
	R2401333-003S	Sr (216.596 nm)	2.0488	0.05	41030.8236
	R2401333-003S	Ti (336.122 nm)	3.0965	0.12	416238.7405
	R2401333-003S	Tl (190.794 nm)	1.8456	0.27	2353.8213
	R2401333-003S	V (292.401 nm)	0.6593	0.08	27242.4116
	R2401333-003S	Y (360.074 nm)	0.99	0.69	487621.65
	R2401333-003S	Y_R (360.074 nm)	0.99	0.70	486570.61
	R2401333-003S	Zn (213.857 nm)	1.2853	0.19	75562.1257
2/22/2024 00:09:08	R2401333-003SD	Ag (328.068 nm)	0.0490	0.16	2728.2552
	R2401333-003SD	Al (237.312 nm)	79.7516 o	0.26	204742.0180
	R2401333-003SD	As (188.980 nm)	0.0751	1.66	125.4329
	R2401333-003SD	B (249.772 nm)	1.0411	0.12	35342.3789
	R2401333-003SD	Ba (230.424 nm)	2.6076	0.10	127623.4591
	R2401333-003SD	Be (313.107 nm)	0.0502	0.10	57217.0351
	R2401333-003SD	Ca (317.933 nm)	13.5044	0.06	546264.6537
	R2401333-003SD	Cd (214.439 nm)	0.0477	0.11	3037.9626
	R2401333-003SD	Co (230.786 nm)	0.5501	0.25	8955.2181
	R2401333-003SD	Cr (267.716 nm)	0.3469	0.12	15845.4800
	R2401333-003SD	Cu (327.395 nm)	0.4192	0.19	16231.9103
	R2401333-003SD	Fe (234.350 nm)	124.9074 o	0.03	2811912.1850
	R2401333-003SD	K (766.491 nm)	24.5544	0.37	26000.5373
	R2401333-003SD	Mg (279.078 nm)	25.8212	0.13	85815.3308
	R2401333-003SD	Mn (257.610 nm)	2.9275 o	0.04	991854.7172
	R2401333-003SD	Mo (202.032 nm)	0.4746	0.27	3920.0115
	R2401333-003SD	Na (588.995 nm)	19.5609	0.37	235212.9916
	R2401333-003SD	Ni (230.299 nm)	0.9224	0.21	11267.9150
	R2401333-003SD	Pb (220.353 nm)	1.1047 o	0.19	6355.4098
	R2401333-003SD	Sb (217.582 nm)	0.3526	0.53	884.6914
	R2401333-003SD	Se (196.026 nm)	0.9074	0.61	748.8853
	R2401333-003SD	Sn (189.925 nm)	4.8249	0.13	14702.9135
	R2401333-003SD	Sr (216.596 nm)	2.0376	0.09	40806.1115
	R2401333-003SD	Ti (336.122 nm)	3.1894	0.21	428730.3128
	R2401333-003SD	Tl (190.794 nm)	1.8400	0.32	2346.6348
	R2401333-003SD	V (292.401 nm)	0.6626	0.06	27378.0213
	R2401333-003SD	Y (360.074 nm)	0.99	0.58	487662.24
	R2401333-003SD	Y_R (360.074 nm)	0.99	0.58	486680.30
	R2401333-003SD	Zn (213.857 nm)	1.1910	0.10	70014.6550
2/22/2024 00:12:23	R2401333-003A	Ag (328.068 nm)	0.0490	0.49	2730.2494
	R2401333-003A	Al (237.312 nm)	76.3715 o	0.28	196068.0689
	R2401333-003A	As (188.980 nm)	0.0694	1.09	114.9585
	R2401333-003A	B (249.772 nm)	1.0780	0.10	36591.3247
	R2401333-003A	Ba (230.424 nm)	2.5514	0.14	124875.4506
	R2401333-003A	Be (313.107 nm)	0.0495	0.06	56402.6728
	R2401333-003A	Ca (317.933 nm)	14.4862	0.06	585784.2415
	R2401333-003A	Cd (214.439 nm)	0.0473	0.40	3012.2667
	R2401333-003A	Co (230.786 nm)	0.5526	0.15	8995.7569
	R2401333-003A	Cr (267.716 nm)	0.3612	0.11	16503.7557
	R2401333-003A	Cu (327.395 nm)	0.4179	0.13	16181.1519
	R2401333-003A	Fe (234.350 nm)	126.8373 o	0.01	2855359.6063

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401333-003A	K (766.491 nm)	24.5963	0.34	26045.4742
	R2401333-003A	Mg (279.078 nm)	30.7602	0.05	102232.5594
	R2401333-003A	Mn (257.610 nm)	2.6811 o	0.09	908374.2505
	R2401333-003A	Mo (202.032 nm)	0.4760	0.58	3931.0932
	R2401333-003A	Na (588.995 nm)	19.5477	0.50	235043.5087
	R2401333-003A	Ni (230.299 nm)	0.9929	0.06	12123.3800
	R2401333-003A	Pb (220.353 nm)	1.1411 o	0.13	6565.0364
	R2401333-003A	Sb (217.582 nm)	0.4573	0.29	1142.4638
	R2401333-003A	Se (196.026 nm)	0.9138	0.21	754.2346
	R2401333-003A	Sn (189.925 nm)	4.7813	0.12	14570.1166
	R2401333-003A	Sr (216.596 nm)	1.9967	0.13	39985.2643
	R2401333-003A	Ti (336.122 nm)	3.3055	0.17	444342.5502
	R2401333-003A	Tl (190.794 nm)	1.8335	0.17	2338.3374
	R2401333-003A	V (292.401 nm)	0.6626	0.10	27380.2331
	R2401333-003A	Y (360.074 nm)	0.98	0.51	482388.96
	R2401333-003A	Y_R (360.074 nm)	0.98	0.51	481388.63
	R2401333-003A	Zn (213.857 nm)	1.1682	0.27	68672.0970
2/22/2024 00:15:39	R2401333-003L 5X	Ag (328.068 nm)	0.0004	51.85	-247.4303
	R2401333-003L 5X	Al (237.312 nm)	16.1419	0.58	41508.9879
	R2401333-003L 5X	As (188.980 nm)	0.0063	26.60	-2.2303
	R2401333-003L 5X	B (249.772 nm)	0.0366	1.05	1312.3273
	R2401333-003L 5X	Ba (230.424 nm)	0.1296	0.28	6329.4954
	R2401333-003L 5X	Be (313.107 nm)	0.0008	1.30	638.4812
	R2401333-003L 5X	Ca (317.933 nm)	2.7164	0.35	111994.4929
	R2401333-003L 5X	Cd (214.439 nm)	0.0000 u	> 100.00	-14.6044
	R2401333-003L 5X	Co (230.786 nm)	0.0161	1.20	310.4865
	R2401333-003L 5X	Cr (267.716 nm)	0.0370	0.08	1626.2694
	R2401333-003L 5X	Cu (327.395 nm)	0.0375	0.70	1422.3489
	R2401333-003L 5X	Fe (234.350 nm)	28.4988 o	0.30	641588.4726
	R2401333-003L 5X	K (766.491 nm)	1.3842	1.47	1149.2226
	R2401333-003L 5X	Mg (279.078 nm)	6.3885	0.50	21220.3407
	R2401333-003L 5X	Mn (257.610 nm)	0.4895	0.39	165824.7423
	R2401333-003L 5X	Mo (202.032 nm)	0.0025	23.29	7.0386
	R2401333-003L 5X	Na (588.995 nm)	0.1825	0.76	-13753.5422
	R2401333-003L 5X	Ni (230.299 nm)	0.1115	0.53	1429.4827
	R2401333-003L 5X	Pb (220.353 nm)	0.1511	0.61	855.3902
	R2401333-003L 5X	Sb (217.582 nm)	-0.0001 u	> 100.00	16.7241
	R2401333-003L 5X	Se (196.026 nm)	0.0045	38.31	-2.8626
	R2401333-003L 5X	Sn (189.925 nm)	0.0094	1.69	34.7172
	R2401333-003L 5X	Sr (216.596 nm)	0.0208	0.15	364.7134
	R2401333-003L 5X	Ti (336.122 nm)	0.5946	0.08	79812.2865
	R2401333-003L 5X	Tl (190.794 nm)	-0.0024 u	87.45	-7.2813
	R2401333-003L 5X	V (292.401 nm)	0.0417	1.03	1654.5175
	R2401333-003L 5X	Y (360.074 nm)	1.00	0.22	490688.11
	R2401333-003L 5X	Y_R (360.074 nm)	0.99	0.22	489661.52
	R2401333-003L 5X	Zn (213.857 nm)	0.1559	0.50	9117.0480
2/22/2024 00:18:54	R2401334-001	Ag (328.068 nm)	0.0003	19.39	-256.9263
	R2401334-001	Al (237.312 nm)	69.7262 o	0.36	179015.2481
	R2401334-001	As (188.980 nm)	0.0575	1.76	92.8904
	R2401334-001	B (249.772 nm)	0.2307	0.30	7887.4886
	R2401334-001	Ba (230.424 nm)	0.6638	0.12	32477.5763
	R2401334-001	Be (313.107 nm)	0.0029	0.13	3054.6012
	R2401334-001	Ca (317.933 nm)	107.5542 o	0.02	4332227.1196
	R2401334-001	Cd (214.439 nm)	0.0026	3.45	146.4051
	R2401334-001	Co (230.786 nm)	0.0635	0.99	1077.8723
	R2401334-001	Cr (267.716 nm)	0.1344	0.12	6097.1431
	R2401334-001	Cu (327.395 nm)	0.2656	0.33	10272.1801

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401334-001	Fe (234.350 nm)	154.2529 o	0.05	3472531.3407
	R2401334-001	K (766.491 nm)	6.6727	0.39	6821.4948
	R2401334-001	Mg (279.078 nm)	44.4675	0.11	147796.1503
	R2401334-001	Mn (257.610 nm)	3.9096 o	0.07	1324629.5013
	R2401334-001	Mo (202.032 nm)	0.0042	4.60	21.2611
	R2401334-001	Na (588.995 nm)	2.0578	0.39	10339.0635
	R2401334-001	Ni (230.299 nm)	0.1764	0.16	2216.9576
	R2401334-001	Pb (220.353 nm)	0.7811	0.17	4488.7865
	R2401334-001	Sb (217.582 nm)	-0.0012 u	50.32	13.7789
	R2401334-001	Se (196.026 nm)	0.0056	77.18	-1.9797
	R2401334-001	Sn (189.925 nm)	0.0329	2.13	106.2598
	R2401334-001	Sr (216.596 nm)	0.2133	0.24	4224.2383
	R2401334-001	Ti (336.122 nm)	0.5045	0.16	67694.4336
	R2401334-001	Tl (190.794 nm)	-0.0027 u	75.72	-7.6643
	R2401334-001	V (292.401 nm)	0.1980	0.13	8128.5965
	R2401334-001	Y (360.074 nm)	0.96	0.63	472787.75
	R2401334-001	Y_R (360.074 nm)	0.96	0.63	471800.34
	R2401334-001	Zn (213.857 nm)	1.0503	0.16	61737.3122
2/22/2024 00:22:09	R2401334-003	Ag (328.068 nm)	0.0069	2.06	148.4168
	R2401334-003	Al (237.312 nm)	56.8992 o	0.31	146098.9416
	R2401334-003	As (188.980 nm)	0.5617	0.12	1028.5728
	R2401334-003	B (249.772 nm)	0.2822	0.20	9630.4526
	R2401334-003	Ba (230.424 nm)	1.2922	0.21	63238.4361
	R2401334-003	Be (313.107 nm)	0.0030	0.39	3231.6527
	R2401334-003	Ca (317.933 nm)	48.5558	0.05	1957252.1209
	R2401334-003	Cd (214.439 nm)	0.0682	0.12	4345.3108
	R2401334-003	Co (230.786 nm)	0.0502	0.32	862.9487
	R2401334-003	Cr (267.716 nm)	0.1042	0.24	4711.4615
	R2401334-003	Cu (327.395 nm)	0.4988	0.25	19322.0249
	R2401334-003	Fe (234.350 nm)	137.3869 o	0.12	3092848.4221
	R2401334-003	K (766.491 nm)	6.6564	0.77	6804.0014
	R2401334-003	Mg (279.078 nm)	16.8092	0.17	55859.2659
	R2401334-003	Mn (257.610 nm)	2.6934 o	0.10	912546.1557
	R2401334-003	Mo (202.032 nm)	0.0077	5.74	49.9440
	R2401334-003	Na (588.995 nm)	1.2703	0.18	221.7178
	R2401334-003	Ni (230.299 nm)	0.1229	0.78	1567.6370
	R2401334-003	Pb (220.353 nm)	17.5484 o	0.16	101189.9625
	R2401334-003	Sb (217.582 nm)	0.0312	4.15	93.5408
	R2401334-003	Se (196.026 nm)	0.0530	2.46	37.4899
	R2401334-003	Sn (189.925 nm)	0.2359	0.54	724.6466
	R2401334-003	Sr (216.596 nm)	0.3890	0.17	7746.6911
	R2401334-003	Ti (336.122 nm)	0.8417	0.31	113043.9368
	R2401334-003	Tl (190.794 nm)	-0.0034 u	50.18	-8.5692
	R2401334-003	V (292.401 nm)	0.1220	0.17	4981.4582
	R2401334-003	Y (360.074 nm)	0.98	0.64	481156.80
	R2401334-003	Y_R (360.074 nm)	0.97	0.64	480124.44
	R2401334-003	Zn (213.857 nm)	1.9442	0.31	114331.8456
2/22/2024 00:25:23	Continuing Calibration Verification2	Ag (328.068 nm)	0.5239	0.15	31824.2407
	Continuing Calibration Verification2	Al (237.312 nm)	10.3201	0.23	26569.2707
	Continuing Calibration Verification2	As (188.980 nm)	1.0027	0.10	1846.8998
	Continuing Calibration Verification2	B (249.772 nm)	2.5062	0.16	84974.0297
	Continuing Calibration Verification2	Ba (230.424 nm)	10.5330	0.13	515564.9351
	Continuing Calibration Verification2	Be (313.107 nm)	0.2509	0.07	286731.3689
	Continuing Calibration Verification2	Ca (317.933 nm)	26.3346	0.04	1062742.3577
	Continuing Calibration Verification2	Cd (214.439 nm)	0.5203	0.06	33289.1057
	Continuing Calibration Verification2	Co (230.786 nm)	2.6200	0.29	42466.2190
	Continuing Calibration Verification2	Cr (267.716 nm)	0.5194	0.05	23761.5432

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification2	Cu (327.395 nm)	1.2743	0.14	49410.0159
	Continuing Calibration Verification2	Fe (234.350 nm)	5.2093	0.07	117301.8853
	Continuing Calibration Verification2	K (766.491 nm)	24.5622	0.18	26008.9245
	Continuing Calibration Verification2	Mg (279.078 nm)	25.4924	0.05	84722.4597
	Continuing Calibration Verification2	Mn (257.610 nm)	0.7665	0.09	259676.4309
	Continuing Calibration Verification2	Mo (202.032 nm)	2.6218	0.40	21715.0230
	Continuing Calibration Verification2	Na (588.995 nm)	25.3056	0.35	309019.2397
	Continuing Calibration Verification2	Ni (230.299 nm)	2.1466	0.11	26120.0512
	Continuing Calibration Verification2	Pb (220.353 nm)	0.5229	0.24	3000.0213
	Continuing Calibration Verification2	Sb (217.582 nm)	5.0815	0.15	12523.4391
	Continuing Calibration Verification2	Se (196.026 nm)	0.5020	0.41	411.3574
	Continuing Calibration Verification2	Sn (189.925 nm)	5.1953	0.13	15831.1466
	Continuing Calibration Verification2	Sr (216.596 nm)	2.5666	0.24	51413.4275
	Continuing Calibration Verification2	Ti (336.122 nm)	2.5716	0.07	345652.8898
	Continuing Calibration Verification2	Tl (190.794 nm)	1.0522	0.41	1340.1545
	Continuing Calibration Verification2	V (292.401 nm)	2.5695	0.07	106386.2395
	Continuing Calibration Verification2	Y (360.074 nm)	0.95	0.47	465470.02
	Continuing Calibration Verification2	Y_R (360.074 nm)	0.94	0.46	464432.83
	Continuing Calibration Verification2	Zn (213.857 nm)	1.0019	0.37	58888.7398
2/22/2024 00:28:37	Continuing Calibration Blank2	Ag (328.068 nm)	0.0003	21.40	-259.3919
	Continuing Calibration Blank2	Al (237.312 nm)	0.0008	> 100.00	88.0847
	Continuing Calibration Blank2	As (188.980 nm)	0.0021	48.63	-9.9879
	Continuing Calibration Blank2	B (249.772 nm)	0.0011	33.21	108.7672
	Continuing Calibration Blank2	Ba (230.424 nm)	0.0002	27.86	-5.2879
	Continuing Calibration Blank2	Be (313.107 nm)	0.0000	23.99	-222.6371
	Continuing Calibration Blank2	Ca (317.933 nm)	-0.0011 u	15.95	2602.1240
	Continuing Calibration Blank2	Cd (214.439 nm)	0.0000 u	> 100.00	-15.5581
	Continuing Calibration Blank2	Co (230.786 nm)	-0.0002 u	49.19	45.4773
	Continuing Calibration Blank2	Cr (267.716 nm)	0.0000 u	> 100.00	-70.8975
	Continuing Calibration Blank2	Cu (327.395 nm)	0.0001 u	> 100.00	-32.4507
	Continuing Calibration Blank2	Fe (234.350 nm)	0.0087	29.74	226.0859
	Continuing Calibration Blank2	K (766.491 nm)	0.0337	17.82	-299.2916
	Continuing Calibration Blank2	Mg (279.078 nm)	-0.0009 u	28.46	-18.0826
	Continuing Calibration Blank2	Mn (257.610 nm)	0.0000	91.15	-29.6863
	Continuing Calibration Blank2	Mo (202.032 nm)	0.0057	15.56	33.9378
	Continuing Calibration Blank2	Na (588.995 nm)	0.0129	41.32	-15933.3236
	Continuing Calibration Blank2	Ni (230.299 nm)	-0.0001 u	> 100.00	76.2607
	Continuing Calibration Blank2	Pb (220.353 nm)	0.0008	30.89	-11.1968
	Continuing Calibration Blank2	Sb (217.582 nm)	0.0060	18.67	31.6793
	Continuing Calibration Blank2	Se (196.026 nm)	0.0006 u	> 100.00	-6.1276
	Continuing Calibration Blank2	Sn (189.925 nm)	0.0024	21.39	13.2083
	Continuing Calibration Blank2	Sr (216.596 nm)	0.0002 u	> 100.00	-49.8895
	Continuing Calibration Blank2	Ti (336.122 nm)	0.0089	29.75	1050.4279
	Continuing Calibration Blank2	Tl (190.794 nm)	-0.0016 u	73.09	-6.2532
	Continuing Calibration Blank2	V (292.401 nm)	0.0001 u	> 100.00	-70.8739
	Continuing Calibration Blank2	Y (360.074 nm)	0.99	0.30	487808.03
	Continuing Calibration Blank2	Y_R (360.074 nm)	0.99	0.30	486676.80
	Continuing Calibration Blank2	Zn (213.857 nm)	0.0008	6.18	-6.5298
2/22/2024 00:31:51	Contract Required Detection Limit	Ag (328.068 nm)	0.0100	0.55	340.6297
	Contract Required Detection Limit	Al (237.312 nm)	0.2004	1.38	600.3919
	Contract Required Detection Limit	As (188.980 nm)	0.0191	0.89	21.5252
	Contract Required Detection Limit	B (249.772 nm)	0.1951	0.26	6681.8492
	Contract Required Detection Limit	Ba (230.424 nm)	0.2091	0.06	10219.2822
	Contract Required Detection Limit	Be (313.107 nm)	0.0050	0.24	5446.1187
	Contract Required Detection Limit	Ca (317.933 nm)	1.0237	0.09	43854.7734
	Contract Required Detection Limit	Cd (214.439 nm)	0.0104	0.18	647.0084
	Contract Required Detection Limit	Co (230.786 nm)	0.0516	0.53	884.2233

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Contract Required Detection Limit	Cr (267.716 nm)	0.0101	1.36	391.6541
	Contract Required Detection Limit	Cu (327.395 nm)	0.0249	0.97	932.5065
	Contract Required Detection Limit	Fe (234.350 nm)	0.1179	1.47	2684.0613
	Contract Required Detection Limit	K (766.491 nm)	0.9055	5.43	635.8084
	Contract Required Detection Limit	Mg (279.078 nm)	0.9770	0.23	3232.5385
	Contract Required Detection Limit	Mn (257.610 nm)	0.0156	0.25	5236.4302
	Contract Required Detection Limit	Mo (202.032 nm)	0.0259	2.52	200.7658
	Contract Required Detection Limit	Na (588.995 nm)	0.9575	0.52	-3797.1243
	Contract Required Detection Limit	Ni (230.299 nm)	0.0400	2.33	562.6091
	Contract Required Detection Limit	Pb (220.353 nm)	0.0106	7.91	45.2322
	Contract Required Detection Limit	Sb (217.582 nm)	0.0614	1.46	167.8727
	Contract Required Detection Limit	Se (196.026 nm)	0.0124 R 12%	45.64	3.7298 R
	Contract Required Detection Limit	Sn (189.925 nm)	0.5099	0.52	1559.1059
	Contract Required Detection Limit	Sr (216.596 nm)	0.1023	0.05	1997.7660
	Contract Required Detection Limit	Ti (336.122 nm)	0.0532	2.58	7007.5916
	Contract Required Detection Limit	Tl (190.794 nm)	0.0180	4.71	18.8815
	Contract Required Detection Limit	V (292.401 nm)	0.0495	0.20	1978.2090
	Contract Required Detection Limit	Y (360.074 nm)	0.98	0.64	483964.06
	Contract Required Detection Limit	Y_R (360.074 nm)	0.98	0.64	482782.06
	Contract Required Detection Limit	Zn (213.857 nm)	0.0199	0.11	1117.5446
2/22/2024 00:35:04	Interference Check Solution A	Ag (328.068 nm)	0.0001 u	> 100.00	-267.7788
	Interference Check Solution A	Al (237.312 nm)	258.8174 o	0.19	664254.6355
	Interference Check Solution A	As (188.980 nm)	-0.0078 Ku +/-0.01	43.04	-28.3034 K
	Interference Check Solution A	B (249.772 nm)	0.1137	0.71	3924.1236
	Interference Check Solution A	Ba (230.424 nm)	0.0004	22.07	3.8157
	Interference Check Solution A	Be (313.107 nm)	0.0000 u	30.18	-249.6861
	Interference Check Solution A	Ca (317.933 nm)	243.2764 o	0.05	9795704.6230
	Interference Check Solution A	Cd (214.439 nm)	-0.0023 Ku	4.11	-166.8025 K
	Interference Check Solution A	Co (230.786 nm)	0.0015	25.77	73.1914
	Interference Check Solution A	Cr (267.716 nm)	0.0010	21.68	-25.5907
	Interference Check Solution A	Cu (327.395 nm)	0.0005	59.17	-15.8473
	Interference Check Solution A	Fe (234.350 nm)	95.8837 o	0.05	2158539.4872
	Interference Check Solution A	K (766.491 nm)	0.0297	17.70	-303.5503
	Interference Check Solution A	Mg (279.078 nm)	262.4749 o	0.04	872458.9167
	Interference Check Solution A	Mn (257.610 nm)	0.0014	0.80	432.8204
	Interference Check Solution A	Mo (202.032 nm)	-0.0020 u	18.05	-30.1784
	Interference Check Solution A	Na (588.995 nm)	-0.0839 u	4.82	-17175.9745
	Interference Check Solution A	Ni (230.299 nm)	0.0021	32.19	103.0640
	Interference Check Solution A	Pb (220.353 nm)	-0.0024 u	40.04	-29.8502
	Interference Check Solution A	Sb (217.582 nm)	-0.0051 u	31.86	4.2851
	Interference Check Solution A	Se (196.026 nm)	0.0075	62.46	-0.3908
	Interference Check Solution A	Sn (189.925 nm)	0.0037	20.56	17.1655
	Interference Check Solution A	Sr (216.596 nm)	0.0102	0.94	150.7401
	Interference Check Solution A	Ti (336.122 nm)	0.0040	23.03	389.3820
	Interference Check Solution A	Tl (190.794 nm)	0.0005 u	> 100.00	-3.5310
	Interference Check Solution A	V (292.401 nm)	0.0022	13.01	17.4623
	Interference Check Solution A	Y (360.074 nm)	0.87	0.44	426281.09
	Interference Check Solution A	Y_R (360.074 nm)	0.86	0.43	425377.11
	Interference Check Solution A	Zn (213.857 nm)	0.0115 K +/-0.02	0.85	624.8267 K
2/22/2024 00:38:18	Interference Check Solution AB	Ag (328.068 nm)	0.2078	0.06	12457.0571
	Interference Check Solution AB	Al (237.312 nm)	260.9840 o	0.13	669814.3685
	Interference Check Solution AB	As (188.980 nm)	0.0934	4.14	159.3847
	Interference Check Solution AB	B (249.772 nm)	0.1294	0.04	4454.1571
	Interference Check Solution AB	Ba (230.424 nm)	0.5361	0.18	26227.5182
	Interference Check Solution AB	Be (313.107 nm)	0.4986	0.21	569954.9073
	Interference Check Solution AB	Ca (317.933 nm)	245.2629 o	0.05	9875669.9690
	Interference Check Solution AB	Cd (214.439 nm)	0.9929	0.05	63535.1134

+/-0.0050

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Interference Check Solution AB	Co (230.786 nm)	0.4969	0.10	8094.5564
	Interference Check Solution AB	Cr (267.716 nm)	0.5077	0.11	23221.4103
	Interference Check Solution AB	Cu (327.395 nm)	0.5407	0.11	20947.2748
	Interference Check Solution AB	Fe (234.350 nm)	96.6422 o	0.06	2175615.0176
	Interference Check Solution AB	K (766.491 nm)	0.0068 u	> 100.00	-328.0700
	Interference Check Solution AB	Mg (279.078 nm)	264.6656 o	0.05	879740.7822
	Interference Check Solution AB	Mn (257.610 nm)	0.5008	0.08	169655.0972
	Interference Check Solution AB	Mo (202.032 nm)	-0.0030 u	34.94	-38.5403
	Interference Check Solution AB	Na (588.995 nm)	-0.0743 u	4.10	-17053.2948
	Interference Check Solution AB	Ni (230.299 nm)	1.0102	0.11	12333.1188
	Interference Check Solution AB	Pb (220.353 nm)	0.0460	2.65	249.2841
	Interference Check Solution AB	Sb (217.582 nm)	0.6201	0.60	1543.1145
	Interference Check Solution AB	Se (196.026 nm)	0.0511	12.35	35.9291
	Interference Check Solution AB	Sn (189.925 nm)	0.0030	44.04	15.0997
	Interference Check Solution AB	Sr (216.596 nm)	0.0105	0.84	157.1956
	Interference Check Solution AB	Ti (336.122 nm)	0.0032	22.09	289.9290
	Interference Check Solution AB	Tl (190.794 nm)	0.1016	0.25	125.6957
	Interference Check Solution AB	V (292.401 nm)	0.5132	0.04	21187.3473
	Interference Check Solution AB	Y (360.074 nm)	0.87	0.32	426242.09
	Interference Check Solution AB	Y_R (360.074 nm)	0.86	0.32	425313.46
	Interference Check Solution AB	Zn (213.857 nm)	1.0235	0.10	60163.3372
2/22/2024 00:41:32	Continuing Calibration Verification2	Ag (328.068 nm)	0.5238	0.19	31815.4377
	Continuing Calibration Verification2	Al (237.312 nm)	10.3225	0.28	26575.4762
	Continuing Calibration Verification2	As (188.980 nm)	0.9995	0.39	1841.0142
	Continuing Calibration Verification2	B (249.772 nm)	2.5085	0.03	85053.4260
	Continuing Calibration Verification2	Ba (230.424 nm)	10.4923	0.13	513570.8782
	Continuing Calibration Verification2	Be (313.107 nm)	0.2511	0.04	286944.6613
	Continuing Calibration Verification2	Ca (317.933 nm)	26.3650	0.04	1063965.6536
	Continuing Calibration Verification2	Cd (214.439 nm)	0.5210	0.07	33333.7194
	Continuing Calibration Verification2	Co (230.786 nm)	2.6163	0.32	42406.7556
	Continuing Calibration Verification2	Cr (267.716 nm)	0.5193	0.12	23757.3900
	Continuing Calibration Verification2	Cu (327.395 nm)	1.2742	0.18	49406.9095
	Continuing Calibration Verification2	Fe (234.350 nm)	5.2034	0.02	117168.4793
	Continuing Calibration Verification2	K (766.491 nm)	24.5958	0.20	26044.9379
	Continuing Calibration Verification2	Mg (279.078 nm)	25.5183	0.09	84808.5133
	Continuing Calibration Verification2	Mn (257.610 nm)	0.7657	0.02	259404.6896
	Continuing Calibration Verification2	Mo (202.032 nm)	2.6238	0.41	21731.2598
	Continuing Calibration Verification2	Na (588.995 nm)	25.2410	0.35	308189.6780
	Continuing Calibration Verification2	Ni (230.299 nm)	2.1465	0.12	26118.8017
	Continuing Calibration Verification2	Pb (220.353 nm)	0.5231	0.17	3001.1809
	Continuing Calibration Verification2	Sb (217.582 nm)	5.0924	0.18	12550.2398
	Continuing Calibration Verification2	Se (196.026 nm)	0.4985	0.49	408.4596
	Continuing Calibration Verification2	Sn (189.925 nm)	5.1970	0.08	15836.3551
	Continuing Calibration Verification2	Sr (216.596 nm)	2.5670	0.09	51421.6148
	Continuing Calibration Verification2	Ti (336.122 nm)	2.5659	0.12	344878.7181
	Continuing Calibration Verification2	Tl (190.794 nm)	1.0549	0.23	1343.5948
	Continuing Calibration Verification2	V (292.401 nm)	2.5680	0.10	106325.1140
	Continuing Calibration Verification2	Y (360.074 nm)	0.94	0.47	464472.91
	Continuing Calibration Verification2	Y_R (360.074 nm)	0.94	0.47	463361.20
	Continuing Calibration Verification2	Zn (213.857 nm)	0.9999	0.02	58771.1914
2/22/2024 00:44:46	Continuing Calibration Blank2	Ag (328.068 nm)	0.0001	32.09	-268.6897
	Continuing Calibration Blank2	Al (237.312 nm)	-0.0012 u	12.96	83.1809
	Continuing Calibration Blank2	As (188.980 nm)	0.0012 u	> 100.00	-11.7289
	Continuing Calibration Blank2	B (249.772 nm)	0.0011	37.57	107.9492
	Continuing Calibration Blank2	Ba (230.424 nm)	0.0003	60.49	-1.4839
	Continuing Calibration Blank2	Be (313.107 nm)	0.0000	52.74	-214.7852
	Continuing Calibration Blank2	Ca (317.933 nm)	-0.0009 u	14.12	2611.8671

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank2	Cd (214.439 nm)	0.0000 u	> 100.00	-18.3736
	Continuing Calibration Blank2	Co (230.786 nm)	-0.0001 u	79.40	48.6213
	Continuing Calibration Blank2	Cr (267.716 nm)	-0.0001 u	72.82	-76.9131
	Continuing Calibration Blank2	Cu (327.395 nm)	-0.0001 u	67.94	-39.9438
	Continuing Calibration Blank2	Fe (234.350 nm)	0.0076	24.46	201.4124
	Continuing Calibration Blank2	K (766.491 nm)	0.0113 u	> 100.00	-323.2490
	Continuing Calibration Blank2	Mg (279.078 nm)	0.0000 u	> 100.00	-15.0021
	Continuing Calibration Blank2	Mn (257.610 nm)	0.0000	29.63	-18.3402
	Continuing Calibration Blank2	Mo (202.032 nm)	0.0062	13.43	37.8775
	Continuing Calibration Blank2	Na (588.995 nm)	0.0022 u	> 100.00	-16069.9537
	Continuing Calibration Blank2	Ni (230.299 nm)	-0.0001 u	> 100.00	75.9812
	Continuing Calibration Blank2	Pb (220.353 nm)	0.0005 u	> 100.00	-13.0504
	Continuing Calibration Blank2	Sb (217.582 nm)	0.0082	13.98	36.9246
	Continuing Calibration Blank2	Se (196.026 nm)	0.0008 u	> 100.00	-5.9974
	Continuing Calibration Blank2	Sn (189.925 nm)	0.0017	5.41	11.0744
	Continuing Calibration Blank2	Sr (216.596 nm)	0.0001	> 100.00	-50.4982
	Continuing Calibration Blank2	Ti (336.122 nm)	0.0079	28.32	914.6822
	Continuing Calibration Blank2	Tl (190.794 nm)	-0.0020 u	82.03	-6.6896
	Continuing Calibration Blank2	V (292.401 nm)	-0.0001 u	> 100.00	-77.5398
	Continuing Calibration Blank2	Y (360.074 nm)	0.99	0.31	486418.19
	Continuing Calibration Blank2	Y_R (360.074 nm)	0.99	0.31	485208.25
	Continuing Calibration Blank2	Zn (213.857 nm)	0.0008	4.68	-4.0240
2/22/2024 00:48:01	PBS-434309	Ag (328.068 nm)	0.0002	44.71	-259.9911
	PBS-434309	Al (237.312 nm)	0.0018	31.56	90.8188
	PBS-434309	As (188.980 nm)	0.0016	75.97	-10.8848
	PBS-434309	B (249.772 nm)	0.0009	1.60	100.4661
	PBS-434309	Ba (230.424 nm)	0.0000 u	> 100.00	-14.5832
	PBS-434309	Be (313.107 nm)	0.0000 u	> 100.00	-219.7325
	PBS-434309	Ca (317.933 nm)	0.0154	1.19	3266.5879
	PBS-434309	Cd (214.439 nm)	0.0002	7.47	-7.1574
	PBS-434309	Co (230.786 nm)	-0.0002 u	90.23	46.2617
	PBS-434309	Cr (267.716 nm)	0.0004	17.06	-51.3405
	PBS-434309	Cu (327.395 nm)	0.0002	56.52	-25.1077
	PBS-434309	Fe (234.350 nm)	0.0193	11.24	465.8186
	PBS-434309	K (766.491 nm)	0.0199	93.46	-314.0063
	PBS-434309	Mg (279.078 nm)	0.0019	> 100.00	-8.8922
	PBS-434309	Mn (257.610 nm)	0.0003	5.22	56.5714
	PBS-434309	Mo (202.032 nm)	0.0014	50.11	-1.7100
	PBS-434309	Na (588.995 nm)	0.0219	5.55	-15817.0557
	PBS-434309	Ni (230.299 nm)	-0.0011 u	33.58	63.8194
	PBS-434309	Pb (220.353 nm)	0.0007	69.58	-11.5472
	PBS-434309	Sb (217.582 nm)	0.0055	42.71	30.3138
	PBS-434309	Se (196.026 nm)	0.0002 u	> 100.00	-6.4420
	PBS-434309	Sn (189.925 nm)	0.0135	4.30	47.1545
	PBS-434309	Sr (216.596 nm)	0.0002 u	> 100.00	-48.5788
	PBS-434309	Ti (336.122 nm)	0.0037	39.55	353.8212
	PBS-434309	Tl (190.794 nm)	-0.0044 u	26.56	-9.7643
	PBS-434309	V (292.401 nm)	0.0003	66.12	-61.9750
	PBS-434309	Y (360.074 nm)	0.99	0.47	486775.08
	PBS-434309	Y_R (360.074 nm)	0.99	0.47	485433.26
	PBS-434309	Zn (213.857 nm)	0.0008	2.71	-6.4662
2/22/2024 00:51:15	LCSS-434309	Ag (328.068 nm)	0.0504	0.19	2813.9125
	LCSS-434309	Al (237.312 nm)	1.9122	0.46	4993.2719
	LCSS-434309	As (188.980 nm)	0.0402	3.04	60.7410
	LCSS-434309	B (249.772 nm)	0.9526	0.12	32341.4782
	LCSS-434309	Ba (230.424 nm)	2.0578	0.21	100711.2230
	LCSS-434309	Be (313.107 nm)	0.0482	0.07	54873.4225

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	LCSS-434309	Ca (317.933 nm)	2.0203	0.05	83974.4226
	LCSS-434309	Cd (214.439 nm)	0.0508	0.20	3236.5181
	LCSS-434309	Co (230.786 nm)	0.5150	0.12	8387.1565
	LCSS-434309	Cr (267.716 nm)	0.1998	0.08	9097.2279
	LCSS-434309	Cu (327.395 nm)	0.2528	0.24	9773.7512
	LCSS-434309	Fe (234.350 nm)	1.0059	0.11	22675.1428
	LCSS-434309	K (766.491 nm)	18.4231	0.40	19424.3483
	LCSS-434309	Mg (279.078 nm)	1.9029	0.08	6310.2919
	LCSS-434309	Mn (257.610 nm)	0.4949	0.05	167651.2536
	LCSS-434309	Mo (202.032 nm)	0.4962	0.42	4099.0978
	LCSS-434309	Na (588.995 nm)	19.0596	0.43	228773.4452
	LCSS-434309	Ni (230.299 nm)	0.5243	0.17	6437.4323
	LCSS-434309	Pb (220.353 nm)	0.5062	0.39	2903.5256
	LCSS-434309	Sb (217.582 nm)	0.4831	0.60	1205.8667
	LCSS-434309	Se (196.026 nm)	0.9318	0.92	769.2078
	LCSS-434309	Sn (189.925 nm)	5.0332	0.04	15337.4066
	LCSS-434309	Sr (216.596 nm)	2.0521	0.16	41096.1480
	LCSS-434309	Ti (336.122 nm)	0.4967	0.09	66640.5336
	LCSS-434309	Tl (190.794 nm)	1.9878	0.22	2535.4728
	LCSS-434309	V (292.401 nm)	0.4943	0.08	20407.3129
	LCSS-434309	Y (360.074 nm)	0.96	0.42	474970.54
	LCSS-434309	Y_R (360.074 nm)	0.96	0.42	473755.52
	LCSS-434309	Zn (213.857 nm)	0.4878	0.21	28644.0934
2/22/2024 00:54:30	R2401277-001	Ag (328.068 nm)	0.0016	2.95	-175.0163
	R2401277-001	Al (237.312 nm)	85.4104 o	0.18	219263.5200
	R2401277-001	As (188.980 nm)	0.0880	0.55	149.4516
	R2401277-001	B (249.772 nm)	0.2661	0.26	9085.8452
	R2401277-001	Ba (230.424 nm)	2.7540	0.21	134789.2244
	R2401277-001	Be (313.107 nm)	0.0043	0.30	4668.6967
	R2401277-001	Ca (317.933 nm)	333.1543 o	0.13	13413726.1591
	R2401277-001	Cd (214.439 nm)	0.0069	0.23	426.1664
	R2401277-001	Co (230.786 nm)	0.0741	0.78	1249.3389
	R2401277-001	Cr (267.716 nm)	0.1413	0.14	6410.4413
	R2401277-001	Cu (327.395 nm)	0.2983	0.30	11538.7149
	R2401277-001	Fe (234.350 nm)	176.2088 o	0.14	3966797.0402
	R2401277-001	K (766.491 nm)	9.2186	0.32	9552.0222
	R2401277-001	Mg (279.078 nm)	66.6887 o	0.03	221660.0082
	R2401277-001	Mn (257.610 nm)	4.9225 o	0.09	1667840.1890
	R2401277-001	Mo (202.032 nm)	0.0128	4.53	92.5754
	R2401277-001	Na (588.995 nm)	1.1418	0.22	-1428.9393
	R2401277-001	Ni (230.299 nm)	0.1735	0.46	2181.8707
	R2401277-001	Pb (220.353 nm)	1.8290 o	0.11	10532.6993
	R2401277-001	Sb (217.582 nm)	-0.0041 u	29.62	6.8415
	R2401277-001	Se (196.026 nm)	0.0109	23.17	2.4070
	R2401277-001	Sn (189.925 nm)	0.0963	0.96	299.1482
	R2401277-001	Sr (216.596 nm)	0.6305	0.13	12590.7043
	R2401277-001	Ti (336.122 nm)	0.7485	0.20	100498.8968
	R2401277-001	Tl (190.794 nm)	0.0001 u	> 100.00	-4.0974
	R2401277-001	V (292.401 nm)	0.1746	0.11	7161.2804
	R2401277-001	Y (360.074 nm)	0.93	0.50	460278.32
	R2401277-001	Y_R (360.074 nm)	0.93	0.50	459186.19
	R2401277-001	Zn (213.857 nm)	2.4716 o	0.10	145357.7384
2/22/2024 00:57:45	R2401277-001S	Ag (328.068 nm)	0.0507	0.32	2828.4459
	R2401277-001S	Al (237.312 nm)	88.0576 o	0.32	226056.4974
	R2401277-001S	As (188.980 nm)	0.1250	0.78	218.0320
	R2401277-001S	B (249.772 nm)	1.1334	0.10	38468.2828
	R2401277-001S	Ba (230.424 nm)	3.7055	0.09	181368.2315

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401277-001S	Be (313.107 nm)	0.0518	0.10	59044.8428
	R2401277-001S	Ca (317.933 nm)	90.0656 o	0.05	3628225.1007
	R2401277-001S	Cd (214.439 nm)	0.0524	0.41	3339.8798
	R2401277-001S	Co (230.786 nm)	0.5678	0.15	9241.5591
	R2401277-001S	Cr (267.716 nm)	0.3197	0.04	14599.3865
	R2401277-001S	Cu (327.395 nm)	0.5249	0.25	20332.5063
	R2401277-001S	Fe (234.350 nm)	175.4494 o	0.06	3949701.7424
	R2401277-001S	K (766.491 nm)	26.0598	0.62	27615.1310
	R2401277-001S	Mg (279.078 nm)	31.8449	0.11	105838.3370
	R2401277-001S	Mn (257.610 nm)	4.5922 o	0.08	1555911.7166
	R2401277-001S	Mo (202.032 nm)	0.4859	0.35	4013.2163
	R2401277-001S	Na (588.995 nm)	20.4154	0.39	246192.4090
	R2401277-001S	Ni (230.299 nm)	0.6757	0.07	8274.5669
	R2401277-001S	Pb (220.353 nm)	1.7737 o	0.10	10213.6581
	R2401277-001S	Sb (217.582 nm)	0.3190	0.23	801.8992
	R2401277-001S	Se (196.026 nm)	0.9340	0.61	771.0630
	R2401277-001S	Sn (189.925 nm)	4.9387	0.02	15049.6145
	R2401277-001S	Sr (216.596 nm)	2.3807	0.12	47685.6504
	R2401277-001S	Ti (336.122 nm)	1.1450	0.72	153819.5607
	R2401277-001S	Tl (190.794 nm)	1.8743	0.17	2390.4521
	R2401277-001S	V (292.401 nm)	0.6415	0.10	26505.9559
	R2401277-001S	Y (360.074 nm)	0.96	0.50	473371.57
	R2401277-001S	Y_R (360.074 nm)	0.96	0.50	472208.09
	R2401277-001S	Zn (213.857 nm)	1.7303	0.19	101744.9458
2/22/2024 01:01:01	R2401277-001SD	Ag (328.068 nm)	0.0519	0.47	2905.7884
	R2401277-001SD	Al (237.312 nm)	87.0358 o	0.27	223434.3743
	R2401277-001SD	As (188.980 nm)	0.1319	1.56	230.8741
	R2401277-001SD	B (249.772 nm)	1.1481	0.11	38966.4940
	R2401277-001SD	Ba (230.424 nm)	3.9297	0.20	192338.5560
	R2401277-001SD	Be (313.107 nm)	0.0516	0.10	58770.2778
	R2401277-001SD	Ca (317.933 nm)	219.5734 o	0.10	8841545.0069
	R2401277-001SD	Cd (214.439 nm)	0.0546	0.15	3479.0304
	R2401277-001SD	Co (230.786 nm)	0.5513	0.11	8975.1030
	R2401277-001SD	Cr (267.716 nm)	0.3176	0.12	14502.3642
	R2401277-001SD	Cu (327.395 nm)	0.5742	0.24	22246.6320
	R2401277-001SD	Fe (234.350 nm)	177.4386 o	0.08	3994482.8622
	R2401277-001SD	K (766.491 nm)	27.2033	0.56	28841.6630
	R2401277-001SD	Mg (279.078 nm)	51.4878	0.07	171131.8683
	R2401277-001SD	Mn (257.610 nm)	4.6098 o	0.06	1561878.8248
	R2401277-001SD	Mo (202.032 nm)	0.4848	0.31	4004.0238
	R2401277-001SD	Na (588.995 nm)	21.0201	0.40	253961.2822
	R2401277-001SD	Ni (230.299 nm)	0.6535	0.22	8005.2202
	R2401277-001SD	Pb (220.353 nm)	2.3160 o	0.23	13341.1047
	R2401277-001SD	Sb (217.582 nm)	0.3031	1.03	762.9676
	R2401277-001SD	Se (196.026 nm)	0.9361	0.64	772.8182
	R2401277-001SD	Sn (189.925 nm)	4.9475	0.10	15076.4236
	R2401277-001SD	Sr (216.596 nm)	2.4783	0.14	49644.3434
	R2401277-001SD	Ti (336.122 nm)	1.0703	0.51	143774.3481
	R2401277-001SD	Tl (190.794 nm)	1.8249	0.17	2327.3553
	R2401277-001SD	V (292.401 nm)	0.6447	0.16	26639.2855
	R2401277-001SD	Y (360.074 nm)	0.95	0.48	467574.83
	R2401277-001SD	Y_R (360.074 nm)	0.95	0.48	466427.84
	R2401277-001SD	Zn (213.857 nm)	2.2360 o	0.36	131499.0340
2/22/2024 01:04:16	R2401277-001A	Ag (328.068 nm)	0.0514	0.48	2875.8274
	R2401277-001A	Al (237.312 nm)	85.0326 o	0.27	218293.9740
	R2401277-001A	As (188.980 nm)	0.1236	1.69	215.4293
	R2401277-001A	B (249.772 nm)	1.2080	0.09	40993.9793

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401277-001A	Ba (230.424 nm)	4.5744	0.14	223896.7005
	R2401277-001A	Be (313.107 nm)	0.0505	0.10	57464.8970
	R2401277-001A	Ca (317.933 nm)	326.5610 o	0.07	13148316.0157
	R2401277-001A	Cd (214.439 nm)	0.0524	0.14	3335.5758
	R2401277-001A	Co (230.786 nm)	0.5372	0.15	8746.0214
	R2401277-001A	Cr (267.716 nm)	0.3232	0.19	14758.6075
	R2401277-001A	Cu (327.395 nm)	0.5365	0.04	20781.4040
	R2401277-001A	Fe (234.350 nm)	172.6174 o	0.03	3885948.2830
	R2401277-001A	K (766.491 nm)	28.6590	0.33	30402.9319
	R2401277-001A	Mg (279.078 nm)	66.4490 o	0.02	220863.2697
	R2401277-001A	Mn (257.610 nm)	5.2292 o	0.06	1771754.8342
	R2401277-001A	Mo (202.032 nm)	0.4847	0.26	4003.1257
	R2401277-001A	Na (588.995 nm)	21.4362	0.45	259306.7904
	R2401277-001A	Ni (230.299 nm)	0.6396	0.14	7836.7544
	R2401277-001A	Pb (220.353 nm)	2.2330 o	0.08	12862.3027
	R2401277-001A	Sb (217.582 nm)	0.4679	0.31	1168.5651
	R2401277-001A	Se (196.026 nm)	0.9450	0.46	780.2498
	R2401277-001A	Sn (189.925 nm)	4.7556	0.03	14491.6353
	R2401277-001A	Sr (216.596 nm)	2.4482	0.14	49040.3837
	R2401277-001A	Ti (336.122 nm)	1.1964	0.36	160736.4646
	R2401277-001A	Tl (190.794 nm)	1.8012	0.25	2297.0651
	R2401277-001A	V (292.401 nm)	0.6397	0.13	26430.0413
	R2401277-001A	Y (360.074 nm)	0.93	0.42	458088.62
	R2401277-001A	Y_R (360.074 nm)	0.93	0.42	456951.00
	R2401277-001A	Zn (213.857 nm)	2.8796 o	0.18	169360.8915
2/22/2024 01:07:31	R2401277-001L 5X	Ag (328.068 nm)	0.0005	11.62	-244.3392
	R2401277-001L 5X	Al (237.312 nm)	17.2641	0.89	44388.5887
	R2401277-001L 5X	As (188.980 nm)	0.0188	7.06	21.0400
	R2401277-001L 5X	B (249.772 nm)	0.0564	0.65	1981.8953
	R2401277-001L 5X	Ba (230.424 nm)	0.5777	0.60	28264.1850
	R2401277-001L 5X	Be (313.107 nm)	0.0009	0.56	799.2196
	R2401277-001L 5X	Ca (317.933 nm)	75.6428 o	0.57	3047638.0710
	R2401277-001L 5X	Cd (214.439 nm)	0.0015	5.95	77.0632
	R2401277-001L 5X	Co (230.786 nm)	0.0155	0.73	300.3645
	R2401277-001L 5X	Cr (267.716 nm)	0.0292	0.87	1267.8289
	R2401277-001L 5X	Cu (327.395 nm)	0.0588	0.78	2247.2579
	R2401277-001L 5X	Fe (234.350 nm)	39.3369 o	0.59	885573.2215
	R2401277-001L 5X	K (766.491 nm)	1.7515	2.43	1543.2037
	R2401277-001L 5X	Mg (279.078 nm)	13.9764	0.65	46442.7747
	R2401277-001L 5X	Mn (257.610 nm)	1.0509	0.62	356050.3394
	R2401277-001L 5X	Mo (202.032 nm)	0.0039	20.80	19.0640
	R2401277-001L 5X	Na (588.995 nm)	0.2086	2.00	-13418.2504
	R2401277-001L 5X	Ni (230.299 nm)	0.0380	0.72	538.3939
	R2401277-001L 5X	Pb (220.353 nm)	0.4001	0.74	2291.4457
	R2401277-001L 5X	Sb (217.582 nm)	-0.0001 u	> 100.00	16.5808
	R2401277-001L 5X	Se (196.026 nm)	0.0046	64.65	-2.8197
	R2401277-001L 5X	Sn (189.925 nm)	0.0207	3.87	69.0015
	R2401277-001L 5X	Sr (216.596 nm)	0.1330	0.58	2614.4188
	R2401277-001L 5X	Ti (336.122 nm)	0.1450	0.90	19353.5886
	R2401277-001L 5X	Tl (190.794 nm)	-0.0007 u	> 100.00	-5.0571
	R2401277-001L 5X	V (292.401 nm)	0.0352	0.74	1385.6802
	R2401277-001L 5X	Y (360.074 nm)	0.97	0.26	477177.14
	R2401277-001L 5X	Y_R (360.074 nm)	0.97	0.26	475863.29
	R2401277-001L 5X	Zn (213.857 nm)	0.5233	0.66	30732.9925
2/22/2024 01:10:47	R2401345-001	Ag (328.068 nm)	-0.0003 u	8.60	-291.9584
	R2401345-001	Al (237.312 nm)	78.3769 o	0.23	201214.2638
	R2401345-001	As (188.980 nm)	0.0213	8.63	25.5408

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401345-001	B (249.772 nm)	0.2519	0.04	8603.4405
	R2401345-001	Ba (230.424 nm)	0.8462	0.09	41405.0079
	R2401345-001	Be (313.107 nm)	0.0032	0.33	3423.9215
	R2401345-001	Ca (317.933 nm)	308.7780 o	0.10	12432461.5544
	R2401345-001	Cd (214.439 nm)	-0.0009 u	2.62	-77.4784
	R2401345-001	Co (230.786 nm)	0.0740	0.70	1247.5076
	R2401345-001	Cr (267.716 nm)	0.1374	0.08	6233.6599
	R2401345-001	Cu (327.395 nm)	0.1067	0.28	4104.2450
	R2401345-001	Fe (234.350 nm)	158.3349 o	0.02	3564425.3549
	R2401345-001	K (766.491 nm)	15.7537	0.53	16561.3042
	R2401345-001	Mg (279.078 nm)	102.4243 o	0.06	340446.1989
	R2401345-001	Mn (257.610 nm)	3.7373 o	0.00	1266238.5583
	R2401345-001	Mo (202.032 nm)	0.0018	12.54	1.1222
	R2401345-001	Na (588.995 nm)	2.5666	0.64	16876.3547
	R2401345-001	Ni (230.299 nm)	0.1586	0.11	2000.9442
	R2401345-001	Pb (220.353 nm)	0.0435	4.40	234.8797
	R2401345-001	Sb (217.582 nm)	-0.0122 u	19.65	-13.2171
	R2401345-001	Se (196.026 nm)	0.0026 u	> 100.00	-4.4652
	R2401345-001	Sn (189.925 nm)	0.0151	2.48	51.9452
	R2401345-001	Sr (216.596 nm)	0.6830	0.06	13642.5438
	R2401345-001	Ti (336.122 nm)	2.5123	0.18	337680.8706
	R2401345-001	Tl (190.794 nm)	-0.0051 u	3.74	-10.7053
	R2401345-001	V (292.401 nm)	0.2114	0.11	8685.4070
	R2401345-001	Y (360.074 nm)	0.95	0.54	465550.35
	R2401345-001	Y_R (360.074 nm)	0.94	0.54	464378.05
	R2401345-001	Zn (213.857 nm)	0.3502	0.10	20547.5879
2/22/2024 01:14:02	R2401345-002	Ag (328.068 nm)	-0.0003 u	32.42	-291.5747
	R2401345-002	Al (237.312 nm)	57.2401 o	0.21	146973.7611
	R2401345-002	As (188.980 nm)	0.0461	0.45	71.5749
	R2401345-002	B (249.772 nm)	0.1940	0.18	6644.4991
	R2401345-002	Ba (230.424 nm)	1.2995	0.31	63593.1045
	R2401345-002	Be (313.107 nm)	0.0023	0.23	2397.2665
	R2401345-002	Ca (317.933 nm)	388.7939 o	0.09	15653491.9495
	R2401345-002	Cd (214.439 nm)	0.0006	15.90	24.6434
	R2401345-002	Co (230.786 nm)	0.0517	1.13	886.2713
	R2401345-002	Cr (267.716 nm)	0.0818	0.22	3680.6570
	R2401345-002	Cu (327.395 nm)	0.1608	0.20	6204.6022
	R2401345-002	Fe (234.350 nm)	121.9940 o	0.05	2746327.2027
	R2401345-002	K (766.491 nm)	10.9895	0.29	11451.4671
	R2401345-002	Mg (279.078 nm)	156.3884 o	0.08	519824.2755
	R2401345-002	Mn (257.610 nm)	8.0604 o	0.05	2731029.0193
	R2401345-002	Mo (202.032 nm)	0.0027	5.13	8.7734
	R2401345-002	Na (588.995 nm)	1.7166	0.57	5956.1381
	R2401345-002	Ni (230.299 nm)	0.1074	1.09	1379.9204
	R2401345-002	Pb (220.353 nm)	0.0984	0.54	551.8673
	R2401345-002	Sb (217.582 nm)	-0.0090 u	12.14	-5.3301
	R2401345-002	Se (196.026 nm)	0.0075	54.52	-0.4147
	R2401345-002	Sn (189.925 nm)	0.0140	4.14	48.6472
	R2401345-002	Sr (216.596 nm)	0.5716	0.20	11408.9661
	R2401345-002	Ti (336.122 nm)	1.5243	0.11	204826.3421
	R2401345-002	Tl (190.794 nm)	-0.0037 u	20.66	-8.8438
	R2401345-002	V (292.401 nm)	0.1516	0.17	6208.4967
	R2401345-002	Y (360.074 nm)	0.92	0.46	454076.92
	R2401345-002	Y_R (360.074 nm)	0.92	0.46	452886.42
	R2401345-002	Zn (213.857 nm)	0.7210	0.31	42361.9667
2/22/2024 01:17:17	R2401345-003	Ag (328.068 nm)	-0.0001 u	56.61	-282.5054
	R2401345-003	Al (237.312 nm)	26.5337 o	0.18	68175.9324

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401345-003	As (188.980 nm)	0.0277	4.77	37.5753
	R2401345-003	B (249.772 nm)	0.3500	0.22	11928.7934
	R2401345-003	Ba (230.424 nm)	0.3356	0.04	16414.3489
	R2401345-003	Be (313.107 nm)	0.0009	0.72	826.4238
	R2401345-003	Ca (317.933 nm)	196.1842 o	0.01	7900014.2593
	R2401345-003	Cd (214.439 nm)	-0.0013 u	3.82	-102.6178
	R2401345-003	Co (230.786 nm)	0.0576	1.75	982.6042
	R2401345-003	Cr (267.716 nm)	0.1535	0.17	6972.9786
	R2401345-003	Cu (327.395 nm)	0.1242	0.05	4784.3377
	R2401345-003	Fe (234.350 nm)	257.2135 o	0.08	5790353.1886
	R2401345-003	K (766.491 nm)	5.3036	1.00	5353.0620
	R2401345-003	Mg (279.078 nm)	49.6255	0.07	164941.4456
	R2401345-003	Mn (257.610 nm)	2.0175 o	0.04	683528.3704
	R2401345-003	Mo (202.032 nm)	0.0035	17.53	15.1089
	R2401345-003	Na (588.995 nm)	0.9669	0.69	-3676.0892
	R2401345-003	Ni (230.299 nm)	0.0651	0.39	866.3212
	R2401345-003	Pb (220.353 nm)	0.0847	0.62	472.6607
	R2401345-003	Sb (217.582 nm)	-0.0164 u	17.77	-23.5470
	R2401345-003	Se (196.026 nm)	0.0066	55.50	-1.1608
	R2401345-003	Sn (189.925 nm)	0.0156	5.23	53.4710
	R2401345-003	Sr (216.596 nm)	0.3360	0.05	6685.1310
	R2401345-003	Ti (336.122 nm)	2.8641	0.12	384980.8444
	R2401345-003	Tl (190.794 nm)	-0.0082 u	22.27	-14.6618
	R2401345-003	V (292.401 nm)	0.6266	0.06	25888.2126
	R2401345-003	Y (360.074 nm)	0.95	0.62	469321.85
	R2401345-003	Y_R (360.074 nm)	0.95	0.62	468064.12
	R2401345-003	Zn (213.857 nm)	0.2895	0.09	16979.0572
2/22/2024 01:20:31	Continuing Calibration Verification2	Ag (328.068 nm)	0.5241	0.13	31832.2251
	Continuing Calibration Verification2	Al (237.312 nm)	10.3159	0.24	26558.3897
	Continuing Calibration Verification2	As (188.980 nm)	1.0001	0.25	1842.1576
	Continuing Calibration Verification2	B (249.772 nm)	2.5153	0.07	85283.9624
	Continuing Calibration Verification2	Ba (230.424 nm)	10.5559	0.17	516687.0868
	Continuing Calibration Verification2	Be (313.107 nm)	0.2517	0.11	287568.9321
	Continuing Calibration Verification2	Ca (317.933 nm)	26.3896	0.09	1064956.3704
	Continuing Calibration Verification2	Cd (214.439 nm)	0.5214	0.21	33356.1297
	Continuing Calibration Verification2	Co (230.786 nm)	2.6248	0.39	42545.2543
	Continuing Calibration Verification2	Cr (267.716 nm)	0.5179	0.04	23693.2574
	Continuing Calibration Verification2	Cu (327.395 nm)	1.2748	0.25	49429.0531
	Continuing Calibration Verification2	Fe (234.350 nm)	5.2188	0.08	117515.1825
	Continuing Calibration Verification2	K (766.491 nm)	24.4987	0.33	25940.7492
	Continuing Calibration Verification2	Mg (279.078 nm)	25.4762	0.10	84668.6585
	Continuing Calibration Verification2	Mn (257.610 nm)	0.7675	0.09	260011.6592
	Continuing Calibration Verification2	Mo (202.032 nm)	2.6278	0.48	21763.9925
	Continuing Calibration Verification2	Na (588.995 nm)	25.1738	0.40	307325.8377
	Continuing Calibration Verification2	Ni (230.299 nm)	2.1473	0.22	26127.4231
	Continuing Calibration Verification2	Pb (220.353 nm)	0.5232	0.17	3001.7262
	Continuing Calibration Verification2	Sb (217.582 nm)	5.0855	0.24	12533.2123
	Continuing Calibration Verification2	Se (196.026 nm)	0.5001	0.30	409.8020
	Continuing Calibration Verification2	Sn (189.925 nm)	5.2037	0.11	15856.7230
	Continuing Calibration Verification2	Sr (216.596 nm)	2.5677	0.22	51435.1841
	Continuing Calibration Verification2	Ti (336.122 nm)	2.5800	0.07	346780.0904
	Continuing Calibration Verification2	Tl (190.794 nm)	1.0571	0.49	1346.4081
	Continuing Calibration Verification2	V (292.401 nm)	2.5690	0.07	106366.5541
	Continuing Calibration Verification2	Y (360.074 nm)	0.94	0.47	464479.81
	Continuing Calibration Verification2	Y_R (360.074 nm)	0.94	0.47	463185.01
	Continuing Calibration Verification2	Zn (213.857 nm)	0.9983	0.23	58678.1032
2/22/2024 01:23:45	Continuing Calibration Blank2	Ag (328.068 nm)	0.0002	> 100.00	-261.1750

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank2	Al (237.312 nm)	-0.0001 u	> 100.00	85.9009
	Continuing Calibration Blank2	As (188.980 nm)	0.0007 u	> 100.00	-12.6626
	Continuing Calibration Blank2	B (249.772 nm)	0.0011	20.03	109.7099
	Continuing Calibration Blank2	Ba (230.424 nm)	0.0003	26.21	1.7406
	Continuing Calibration Blank2	Be (313.107 nm)	0.0000	70.03	-213.6737
	Continuing Calibration Blank2	Ca (317.933 nm)	-0.0011 u	13.44	2600.9997
	Continuing Calibration Blank2	Cd (214.439 nm)	0.0001	12.45	-13.1687
	Continuing Calibration Blank2	Co (230.786 nm)	-0.0001 u	> 100.00	48.4259
	Continuing Calibration Blank2	Cr (267.716 nm)	0.0000 u	> 100.00	-71.0415
	Continuing Calibration Blank2	Cu (327.395 nm)	0.0001 u	> 100.00	-29.6634
	Continuing Calibration Blank2	Fe (234.350 nm)	0.0085	22.98	221.7166
	Continuing Calibration Blank2	K (766.491 nm)	0.0411	57.59	-291.3420
	Continuing Calibration Blank2	Mg (279.078 nm)	0.0002 u	> 100.00	-14.4456
	Continuing Calibration Blank2	Mn (257.610 nm)	0.0000	46.41	-19.3239
	Continuing Calibration Blank2	Mo (202.032 nm)	0.0062	10.12	37.6046
	Continuing Calibration Blank2	Na (588.995 nm)	0.0046	> 100.00	-16039.4606
	Continuing Calibration Blank2	Ni (230.299 nm)	-0.0002 u	> 100.00	74.6969
	Continuing Calibration Blank2	Pb (220.353 nm)	-0.0001 u	> 100.00	-16.6456
	Continuing Calibration Blank2	Sb (217.582 nm)	0.0079	20.69	36.2288
	Continuing Calibration Blank2	Se (196.026 nm)	0.0005 u	> 100.00	-6.1983
	Continuing Calibration Blank2	Sn (189.925 nm)	0.0019	21.23	11.6754
	Continuing Calibration Blank2	Sr (216.596 nm)	0.0001 u	> 100.00	-50.1786
	Continuing Calibration Blank2	Ti (336.122 nm)	0.0090	28.43	1065.1309
	Continuing Calibration Blank2	Tl (190.794 nm)	-0.0029 u	23.17	-7.8386
	Continuing Calibration Blank2	V (292.401 nm)	0.0002	> 100.00	-65.2642
	Continuing Calibration Blank2	Y (360.074 nm)	0.99	0.36	485858.64
	Continuing Calibration Blank2	Y_R (360.074 nm)	0.98	0.36	484468.38
	Continuing Calibration Blank2	Zn (213.857 nm)	0.0008	3.96	-7.3172
2/22/2024 01:27:00	R2401345-004	Ag (328.068 nm)	0.0001	53.22	-268.6902
	R2401345-004	Al (237.312 nm)	69.8789 o	0.31	179406.9154
	R2401345-004	As (188.980 nm)	0.0245	7.22	31.4863
	R2401345-004	B (249.772 nm)	0.2071	0.20	7086.8017
	R2401345-004	Ba (230.424 nm)	0.7514	0.54	36768.1332
	R2401345-004	Be (313.107 nm)	0.0027	0.35	2837.6408
	R2401345-004	Ca (317.933 nm)	267.1342 o	0.10	10756098.6127
	R2401345-004	Cd (214.439 nm)	-0.0007 u	14.92	-59.2178
	R2401345-004	Co (230.786 nm)	0.0568	0.26	969.2613
	R2401345-004	Cr (267.716 nm)	0.1153	0.19	5220.8191
	R2401345-004	Cu (327.395 nm)	0.1237	0.58	4766.6538
	R2401345-004	Fe (234.350 nm)	134.3015 o	0.12	3023390.7326
	R2401345-004	K (766.491 nm)	13.9489	0.71	14625.5339
	R2401345-004	Mg (279.078 nm)	81.5297 o	0.15	270991.8771
	R2401345-004	Mn (257.610 nm)	3.1478 o	0.10	1066531.1211
	R2401345-004	Mo (202.032 nm)	0.0012	52.12	-3.3756
	R2401345-004	Na (588.995 nm)	1.2690	0.67	205.6266
	R2401345-004	Ni (230.299 nm)	0.1165	0.40	1490.9120
	R2401345-004	Pb (220.353 nm)	0.0394	0.11	211.2190
	R2401345-004	Sb (217.582 nm)	-0.0088 u	22.25	-4.7051
	R2401345-004	Se (196.026 nm)	0.0066	80.82	-1.1513
	R2401345-004	Sn (189.925 nm)	0.0140	6.06	48.4474
	R2401345-004	Sr (216.596 nm)	0.5888	0.05	11754.2867
	R2401345-004	Ti (336.122 nm)	2.4912	0.24	334843.7160
	R2401345-004	Tl (190.794 nm)	-0.0082 u	32.23	-14.6735
	R2401345-004	V (292.401 nm)	0.1916	0.20	7863.0475
	R2401345-004	Y (360.074 nm)	0.94	0.65	465147.73
	R2401345-004	Y_R (360.074 nm)	0.94	0.65	463867.37
	R2401345-004	Zn (213.857 nm)	0.3666	0.18	21516.9143

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
2/22/2024 01:30:15	R2401345-005	Ag (328.068 nm)	-0.0001 u	> 100.00	-280.9174
	R2401345-005	Al (237.312 nm)	41.5324 o	0.31	106665.0941
	R2401345-005	As (188.980 nm)	0.0210	17.38	25.0507
	R2401345-005	B (249.772 nm)	0.1519	0.27	5217.4507
	R2401345-005	Ba (230.424 nm)	0.3893	0.13	19039.4802
	R2401345-005	Be (313.107 nm)	0.0015	0.66	1539.8839
	R2401345-005	Ca (317.933 nm)	381.7930 o	0.12	15371672.3199
	R2401345-005	Cd (214.439 nm)	0.0000 u	> 100.00	-14.2810
	R2401345-005	Co (230.786 nm)	0.0372	0.38	651.0171
	R2401345-005	Cr (267.716 nm)	0.0584	0.20	2610.2444
	R2401345-005	Cu (327.395 nm)	0.1206	0.19	4644.1435
	R2401345-005	Fe (234.350 nm)	91.1837 o	0.10	2052733.1231
	R2401345-005	K (766.491 nm)	9.2387	0.75	9573.6268
	R2401345-005	Mg (279.078 nm)	119.0494 o	0.13	395708.5381
	R2401345-005	Mn (257.610 nm)	4.3546 o	0.08	1475422.7942
	R2401345-005	Mo (202.032 nm)	0.0006	39.54	-8.3927
	R2401345-005	Na (588.995 nm)	0.7664	0.87	-6251.8165
	R2401345-005	Ni (230.299 nm)	0.0721	1.07	951.8391
	R2401345-005	Pb (220.353 nm)	0.0494	2.75	269.2622
	R2401345-005	Sb (217.582 nm)	-0.0052 u	36.05	3.9449
	R2401345-005	Se (196.026 nm)	0.0075	17.13	-0.4267
	R2401345-005	Sn (189.925 nm)	0.0135	6.18	47.0109
	R2401345-005	Sr (216.596 nm)	0.4650	0.12	9270.8511
	R2401345-005	Ti (336.122 nm)	1.0883	0.44	146196.1366
	R2401345-005	Tl (190.794 nm)	-0.0022 u	81.81	-6.9866
	R2401345-005	V (292.401 nm)	0.1044	0.19	4250.6626
	R2401345-005	Y (360.074 nm)	0.92	0.53	455569.98
	R2401345-005	Y_R (360.074 nm)	0.92	0.53	454362.88
	R2401345-005	Zn (213.857 nm)	0.3498	0.19	20528.2293
2/22/2024 01:33:30	R2401345-006	Ag (328.068 nm)	0.0000 u	> 100.00	-276.6844
	R2401345-006	Al (237.312 nm)	39.3584 o	0.22	101086.3788
	R2401345-006	As (188.980 nm)	0.0172	2.41	18.0732
	R2401345-006	B (249.772 nm)	0.1274	0.17	4386.0126
	R2401345-006	Ba (230.424 nm)	0.3275	0.10	16016.0085
	R2401345-006	Be (313.107 nm)	0.0016	0.83	1591.0679
	R2401345-006	Ca (317.933 nm)	241.5300 o	0.04	9725402.5970
	R2401345-006	Cd (214.439 nm)	-0.0002 u	36.02	-32.4480
	R2401345-006	Co (230.786 nm)	0.0352	0.14	618.9831
	R2401345-006	Cr (267.716 nm)	0.0525	0.19	2337.2009
	R2401345-006	Cu (327.395 nm)	0.1282	0.09	4940.6958
	R2401345-006	Fe (234.350 nm)	82.6393 o	0.05	1860383.8129
	R2401345-006	K (766.491 nm)	7.8346	0.47	8067.6378
	R2401345-006	Mg (279.078 nm)	44.6947	0.13	148551.5258
	R2401345-006	Mn (257.610 nm)	2.5304 o	0.02	857309.1053
	R2401345-006	Mo (202.032 nm)	0.0006	> 100.00	-8.6381
	R2401345-006	Na (588.995 nm)	0.6987	0.11	-7122.3377
	R2401345-006	Ni (230.299 nm)	0.0693	1.32	917.3944
	R2401345-006	Pb (220.353 nm)	0.0264	1.21	136.2056
	R2401345-006	Sb (217.582 nm)	-0.0069 u	22.78	-0.0564
	R2401345-006	Se (196.026 nm)	0.0027	57.47	-4.4224
	R2401345-006	Sn (189.925 nm)	0.0132	2.55	46.0711
	R2401345-006	Sr (216.596 nm)	0.4287	0.17	8543.2920
	R2401345-006	Ti (336.122 nm)	0.9189	0.25	123414.9303
	R2401345-006	Tl (190.794 nm)	-0.0026 u	30.76	-7.4617
	R2401345-006	V (292.401 nm)	0.0932	0.48	3788.5802
	R2401345-006	Y (360.074 nm)	0.94	0.41	462521.97
	R2401345-006	Y_R (360.074 nm)	0.94	0.40	461235.17

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401345-006	Zn (213.857 nm)	0.2850	0.16	16714.3424
2/22/2024 01:36:45	R2401345-007	Ag (328.068 nm)	-0.0002 u	67.75	-285.1592
	R2401345-007	Al (237.312 nm)	53.3374 o	0.32	136958.8883
	R2401345-007	As (188.980 nm)	0.0198	6.54	22.7615
	R2401345-007	B (249.772 nm)	0.1875	0.21	6424.2649
	R2401345-007	Ba (230.424 nm)	0.4523	0.17	22125.4830
	R2401345-007	Be (313.107 nm)	0.0024	0.31	2509.9859
	R2401345-007	Ca (317.933 nm)	475.7575 o	0.16	19154200.4862
	R2401345-007	Cd (214.439 nm)	0.0006	13.72	19.8538
	R2401345-007	Co (230.786 nm)	0.0629	0.21	1067.6790
	R2401345-007	Cr (267.716 nm)	0.0794	0.21	3572.2946
	R2401345-007	Cu (327.395 nm)	0.2209	0.46	8535.3495
	R2401345-007	Fe (234.350 nm)	100.1292 o	0.12	2254113.5901
	R2401345-007	K (766.491 nm)	14.0248	0.62	14706.9566
	R2401345-007	Mg (279.078 nm)	203.1985 o	0.10	675422.6349
	R2401345-007	Mn (257.610 nm)	4.1366 o	0.15	1401528.0967
	R2401345-007	Mo (202.032 nm)	0.0013	26.14	-2.3576
	R2401345-007	Na (588.995 nm)	1.1415	0.28	-1432.7262
	R2401345-007	Ni (230.299 nm)	0.0903	1.13	1172.1107
	R2401345-007	Pb (220.353 nm)	0.1065	0.50	598.5413
	R2401345-007	Sb (217.582 nm)	-0.0081 u	25.71	-3.1427
	R2401345-007	Se (196.026 nm)	0.0027 u	> 100.00	-4.3572
	R2401345-007	Sn (189.925 nm)	0.0137	3.78	47.6289
	R2401345-007	Sr (216.596 nm)	0.5939	0.19	11855.2521
	R2401345-007	Ti (336.122 nm)	1.1729	0.43	157577.0316
	R2401345-007	Tl (190.794 nm)	-0.0039 u	18.56	-9.1526
	R2401345-007	V (292.401 nm)	0.1139	0.24	4646.8322
	R2401345-007	Y (360.074 nm)	0.91	0.61	445776.93
	R2401345-007	Y_R (360.074 nm)	0.90	0.61	444538.00
	R2401345-007	Zn (213.857 nm)	0.5907	0.20	34700.0963
2/22/2024 01:40:00	R2401345-008	Ag (328.068 nm)	0.0000 u	> 100.00	-274.0584
	R2401345-008	Al (237.312 nm)	50.7153 o	0.24	130230.0489
	R2401345-008	As (188.980 nm)	0.0441	4.19	67.9405
	R2401345-008	B (249.772 nm)	0.2011	0.37	6882.3471
	R2401345-008	Ba (230.424 nm)	0.6869	0.17	33609.2515
	R2401345-008	Be (313.107 nm)	0.0022	0.11	2266.4509
	R2401345-008	Ca (317.933 nm)	521.3957 o	0.05	20991358.1630
	R2401345-008	Cd (214.439 nm)	0.0000	85.14	-14.4249
	R2401345-008	Co (230.786 nm)	0.0473	1.93	814.7441
	R2401345-008	Cr (267.716 nm)	0.0946	0.29	4268.1619
	R2401345-008	Cu (327.395 nm)	0.1283	0.21	4945.2654
	R2401345-008	Fe (234.350 nm)	105.8415 o	0.11	2382706.2145
	R2401345-008	K (766.491 nm)	14.2268	0.54	14923.6029
	R2401345-008	Mg (279.078 nm)	245.2065 o	0.03	815058.1974
	R2401345-008	Mn (257.610 nm)	3.4812 o	0.07	1179475.9417
	R2401345-008	Mo (202.032 nm)	0.0035	12.25	15.7397
	R2401345-008	Na (588.995 nm)	1.8038	0.54	7075.8532
	R2401345-008	Ni (230.299 nm)	0.0920	0.40	1192.8326
	R2401345-008	Pb (220.353 nm)	0.0608	1.27	334.7649
	R2401345-008	Sb (217.582 nm)	-0.0089 u	15.47	-4.9991
	R2401345-008	Se (196.026 nm)	0.0062 u	94.97	-1.5077
	R2401345-008	Sn (189.925 nm)	0.0140	2.38	48.5456
	R2401345-008	Sr (216.596 nm)	0.6562	0.03	13104.8644
	R2401345-008	Ti (336.122 nm)	1.5457	0.23	207696.4268
	R2401345-008	Tl (190.794 nm)	-0.0025 u	49.79	-7.3693
	R2401345-008	V (292.401 nm)	0.1404	0.07	5744.5711
	R2401345-008	Y (360.074 nm)	0.90	0.60	441577.98

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401345-008	Y_R (360.074 nm)	0.89	0.60	440342.76
	R2401345-008	Zn (213.857 nm)	0.4374	0.14	25679.2415
2/22/2024 01:43:15	R2401345-009	Ag (328.068 nm)	-0.0002 u	46.28	-286.5093
	R2401345-009	Al (237.312 nm)	62.7016 o	0.30	160988.8668
	R2401345-009	As (188.980 nm)	0.0192	7.14	21.6793
	R2401345-009	B (249.772 nm)	0.1924	0.10	6587.7112
	R2401345-009	Ba (230.424 nm)	0.3651	0.18	17856.5229
	R2401345-009	Be (313.107 nm)	0.0022	0.39	2292.0625
	R2401345-009	Ca (317.933 nm)	496.7040 o	0.02	19997397.0397
	R2401345-009	Cd (214.439 nm)	-0.0005 u	16.15	-49.0673
	R2401345-009	Co (230.786 nm)	0.0531	0.41	909.6799
	R2401345-009	Cr (267.716 nm)	0.0753	0.47	3385.1215
	R2401345-009	Cu (327.395 nm)	0.2679	0.15	10360.6760
	R2401345-009	Fe (234.350 nm)	127.4541 o	0.06	2869243.6463
	R2401345-009	K (766.491 nm)	9.7939	0.36	10169.0965
	R2401345-009	Mg (279.078 nm)	109.0542 o	0.08	362484.1098
	R2401345-009	Mn (257.610 nm)	5.4643 o	0.02	1851404.6300
	R2401345-009	Mo (202.032 nm)	-0.0002 u	> 100.00	-15.3616
	R2401345-009	Na (588.995 nm)	1.8926	0.43	8217.6335
	R2401345-009	Ni (230.299 nm)	0.1171	0.56	1498.1340
	R2401345-009	Pb (220.353 nm)	0.0413	0.45	222.5151
	R2401345-009	Sb (217.582 nm)	-0.0120 u	14.31	-12.7178
	R2401345-009	Se (196.026 nm)	0.0075	61.31	-0.4045
	R2401345-009	Sn (189.925 nm)	0.0149	2.23	51.4763
	R2401345-009	Sr (216.596 nm)	0.8366	0.05	16723.7932
	R2401345-009	Ti (336.122 nm)	0.7741	0.38	103943.8653
	R2401345-009	Tl (190.794 nm)	-0.0038 u	57.80	-9.0267
	R2401345-009	V (292.401 nm)	0.1229	0.11	5017.3113
	R2401345-009	Y (360.074 nm)	0.92	0.51	450981.39
	R2401345-009	Y_R (360.074 nm)	0.91	0.51	449689.82
	R2401345-009	Zn (213.857 nm)	0.4135	0.19	24274.7067
2/22/2024 01:46:30	R2401345-010	Ag (328.068 nm)	-0.0001 u	> 100.00	-278.3048
	R2401345-010	Al (237.312 nm)	54.7535 o	0.32	140592.6616
	R2401345-010	As (188.980 nm)	0.0160	14.74	15.8719
	R2401345-010	B (249.772 nm)	0.1590	0.29	5459.2338
	R2401345-010	Ba (230.424 nm)	0.5692	0.20	27848.2541
	R2401345-010	Be (313.107 nm)	0.0019	0.40	1944.6726
	R2401345-010	Ca (317.933 nm)	434.7268 o	0.09	17502514.9326
	R2401345-010	Cd (214.439 nm)	0.0000 u	> 100.00	-17.6758
	R2401345-010	Co (230.786 nm)	0.0292	0.76	522.6917
	R2401345-010	Cr (267.716 nm)	0.0848	0.35	3819.6227
	R2401345-010	Cu (327.395 nm)	0.0677	0.80	2593.2579
	R2401345-010	Fe (234.350 nm)	91.5736 o	0.09	2061511.2277
	R2401345-010	K (766.491 nm)	12.4444	0.64	13011.8635
	R2401345-010	Mg (279.078 nm)	182.0680 o	0.11	605184.2522
	R2401345-010	Mn (257.610 nm)	2.4740 o	0.07	838226.7245
	R2401345-010	Mo (202.032 nm)	0.0000 u	> 100.00	-13.6767
	R2401345-010	Na (588.995 nm)	1.6634	1.04	5272.9603
	R2401345-010	Ni (230.299 nm)	0.0712	0.86	941.3636
	R2401345-010	Pb (220.353 nm)	0.0508	0.54	277.1078
	R2401345-010	Sb (217.582 nm)	-0.0080 u	32.29	-2.7892
	R2401345-010	Se (196.026 nm)	0.0044	> 100.00	-2.9717
	R2401345-010	Sn (189.925 nm)	0.0131	0.63	45.9852
	R2401345-010	Sr (216.596 nm)	0.6580	0.08	13141.5820
	R2401345-010	Ti (336.122 nm)	1.9361	0.33	260191.7389
	R2401345-010	Tl (190.794 nm)	-0.0030 u	85.62	-8.0642
	R2401345-010	V (292.401 nm)	0.1172	0.12	4780.9751

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2401345-010	Y (360.074 nm)	0.91	0.44	448047.17
	R2401345-010	Y_R (360.074 nm)	0.91	0.44	446730.48
	R2401345-010	Zn (213.857 nm)	0.5178	0.09	30410.3163
2/22/2024 01:49:45	Continuing Calibration Verification2	Ag (328.068 nm)	0.5244	0.21	31851.4783
	Continuing Calibration Verification2	Al (237.312 nm)	10.3441	0.23	26630.7166
	Continuing Calibration Verification2	As (188.980 nm)	1.0011	0.27	1843.9587
	Continuing Calibration Verification2	B (249.772 nm)	2.5219	0.09	85507.4685
	Continuing Calibration Verification2	Ba (230.424 nm)	10.5556	0.44	516672.2329
	Continuing Calibration Verification2	Be (313.107 nm)	0.2522	0.08	288131.1740
	Continuing Calibration Verification2	Ca (317.933 nm)	26.4274	0.06	1066478.1831
	Continuing Calibration Verification2	Cd (214.439 nm)	0.5216	0.16	33366.9197
	Continuing Calibration Verification2	Co (230.786 nm)	2.6288	0.24	42609.8790
	Continuing Calibration Verification2	Cr (267.716 nm)	0.5172	0.06	23661.2164
	Continuing Calibration Verification2	Cu (327.395 nm)	1.2773	0.23	49526.6170
	Continuing Calibration Verification2	Fe (234.350 nm)	5.2123	0.05	117369.0672
	Continuing Calibration Verification2	K (766.491 nm)	24.5445	0.41	25989.9242
	Continuing Calibration Verification2	Mg (279.078 nm)	25.4774	0.08	84672.4868
	Continuing Calibration Verification2	Mn (257.610 nm)	0.7685	0.07	260362.2484
	Continuing Calibration Verification2	Mo (202.032 nm)	2.6332	0.34	21809.0167
	Continuing Calibration Verification2	Na (588.995 nm)	25.1950	0.33	307598.5621
	Continuing Calibration Verification2	Ni (230.299 nm)	2.1509	0.12	26171.5680
	Continuing Calibration Verification2	Pb (220.353 nm)	0.5228	0.19	2999.1586
	Continuing Calibration Verification2	Sb (217.582 nm)	5.0933	0.34	12552.5905
	Continuing Calibration Verification2	Se (196.026 nm)	0.5004	0.29	410.0289
	Continuing Calibration Verification2	Sn (189.925 nm)	5.2080	0.05	15869.8192
	Continuing Calibration Verification2	Sr (216.596 nm)	2.5753	0.13	51589.0741
	Continuing Calibration Verification2	Ti (336.122 nm)	2.5817	0.07	347004.1303
	Continuing Calibration Verification2	Tl (190.794 nm)	1.0600	0.36	1350.1516
	Continuing Calibration Verification2	V (292.401 nm)	2.5712	0.04	106457.7026
	Continuing Calibration Verification2	Y (360.074 nm)	0.94	0.55	463387.19
	Continuing Calibration Verification2	Y_R (360.074 nm)	0.94	0.54	461984.80
	Continuing Calibration Verification2	Zn (213.857 nm)	1.0001	0.23	58783.4881
2/22/2024 01:52:59	Continuing Calibration Blank2	Ag (328.068 nm)	0.0002	71.57	-262.3037
	Continuing Calibration Blank2	Al (237.312 nm)	0.0019	18.75	91.1350
	Continuing Calibration Blank2	As (188.980 nm)	0.0012 u	> 100.00	-11.6832
	Continuing Calibration Blank2	B (249.772 nm)	0.0008	47.84	99.2250
	Continuing Calibration Blank2	Ba (230.424 nm)	0.0004	24.58	5.5907
	Continuing Calibration Blank2	Be (313.107 nm)	0.0000	> 100.00	-220.0976
	Continuing Calibration Blank2	Ca (317.933 nm)	-0.0012 u	10.16	2599.3283
	Continuing Calibration Blank2	Cd (214.439 nm)	0.0000 u	> 100.00	-16.1518
	Continuing Calibration Blank2	Co (230.786 nm)	-0.0001 u	> 100.00	47.0091
	Continuing Calibration Blank2	Cr (267.716 nm)	-0.0001 u	88.04	-74.3915
	Continuing Calibration Blank2	Cu (327.395 nm)	-0.0001 u	> 100.00	-39.7537
	Continuing Calibration Blank2	Fe (234.350 nm)	0.0081	26.26	213.5037
	Continuing Calibration Blank2	K (766.491 nm)	0.0660	23.83	-264.6028
	Continuing Calibration Blank2	Mg (279.078 nm)	0.0002 u	> 100.00	-14.3665
	Continuing Calibration Blank2	Mn (257.610 nm)	0.0001	20.13	-16.3665
	Continuing Calibration Blank2	Mo (202.032 nm)	0.0063	13.67	38.5881
	Continuing Calibration Blank2	Na (588.995 nm)	-0.0013 u	> 100.00	-16115.5286
	Continuing Calibration Blank2	Ni (230.299 nm)	0.0000 u	> 100.00	76.9780
	Continuing Calibration Blank2	Pb (220.353 nm)	0.0005 u	> 100.00	-12.7373
	Continuing Calibration Blank2	Sb (217.582 nm)	0.0074	13.78	34.9453
	Continuing Calibration Blank2	Se (196.026 nm)	0.0009 u	> 100.00	-5.9036
	Continuing Calibration Blank2	Sn (189.925 nm)	0.0019	6.26	11.6908
	Continuing Calibration Blank2	Sr (216.596 nm)	0.0003	74.94	-47.8752
	Continuing Calibration Blank2	Ti (336.122 nm)	0.0086	29.30	1013.5580
	Continuing Calibration Blank2	Tl (190.794 nm)	-0.0021 u	> 100.00	-6.8864

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank2	V (292.401 nm)	0.0002	67.98	-66.0526
	Continuing Calibration Blank2	Y (360.074 nm)	0.99	0.40	485368.96
	Continuing Calibration Blank2	Y_R (360.074 nm)	0.98	0.40	483833.74
	Continuing Calibration Blank2	Zn (213.857 nm)	0.0008	4.38	-9.3811
2/22/2024 01:56:13	Contract Required Detection Limit	Ag (328.068 nm)	0.0102	1.27	349.2025
	Contract Required Detection Limit	Al (237.312 nm)	0.1985	0.47	595.4492
	Contract Required Detection Limit	As (188.980 nm)	0.0195	8.37	22.2257
	Contract Required Detection Limit	B (249.772 nm)	0.1972	0.22	6751.9690
	Contract Required Detection Limit	Ba (230.424 nm)	0.2107	0.07	10298.1513
	Contract Required Detection Limit	Be (313.107 nm)	0.0050	0.07	5506.8166
	Contract Required Detection Limit	Ca (317.933 nm)	1.0298	0.12	44102.6750
	Contract Required Detection Limit	Cd (214.439 nm)	0.0104	0.63	648.8266
	Contract Required Detection Limit	Co (230.786 nm)	0.0521	0.30	892.4690
	Contract Required Detection Limit	Cr (267.716 nm)	0.0101	0.94	390.9532
	Contract Required Detection Limit	Cu (327.395 nm)	0.0253	1.78	947.0623
	Contract Required Detection Limit	Fe (234.350 nm)	0.1179	1.73	2683.8237
	Contract Required Detection Limit	K (766.491 nm)	0.9140	2.25	644.9226
	Contract Required Detection Limit	Mg (279.078 nm)	0.9787	0.20	3237.9809
	Contract Required Detection Limit	Mn (257.610 nm)	0.0157	0.17	5278.0474
	Contract Required Detection Limit	Mo (202.032 nm)	0.0256	1.64	198.9669
	Contract Required Detection Limit	Na (588.995 nm)	0.9462	0.26	-3942.2844
	Contract Required Detection Limit	Ni (230.299 nm)	0.0408	0.64	571.7108
	Contract Required Detection Limit	Pb (220.353 nm)	0.0113	5.78	49.4652
	Contract Required Detection Limit	Sb (217.582 nm)	0.0622	1.63	169.9276
	Contract Required Detection Limit	Se (196.026 nm)	0.0072 R 72	31.42	-0.6000 R
	Contract Required Detection Limit	Sn (189.925 nm)	0.5120	0.26	1565.4696
	Contract Required Detection Limit	Sr (216.596 nm)	0.1030	0.46	2012.7383
	Contract Required Detection Limit	Ti (336.122 nm)	0.0533	2.54	7026.5465
	Contract Required Detection Limit	Tl (190.794 nm)	0.0174	8.41	18.1200
	Contract Required Detection Limit	V (292.401 nm)	0.0499	0.19	1993.7736
	Contract Required Detection Limit	Y (360.074 nm)	0.98	0.45	480882.31
	Contract Required Detection Limit	Y_R (360.074 nm)	0.97	0.45	479328.20
	Contract Required Detection Limit	Zn (213.857 nm)	0.0199	0.43	1116.5397
2/22/2024 01:59:26	Interference Check Solution A	Ag (328.068 nm)	0.0000 u	> 100.00	-271.7990
	Interference Check Solution A	Al (237.312 nm)	260.4557 o	0.19	668458.7071
	Interference Check Solution A	As (188.980 nm)	-0.0072 Ku +/-0.01	18.18	-27.2954 K
	Interference Check Solution A	B (249.772 nm)	0.1127	0.34	3890.0130
	Interference Check Solution A	Ba (230.424 nm)	0.0004	19.40	5.0618
	Interference Check Solution A	Be (313.107 nm)	0.0000 u	69.28	-247.9851
	Interference Check Solution A	Ca (317.933 nm)	244.6197 o	0.09	9849779.3945
	Interference Check Solution A	Cd (214.439 nm)	-0.0025 Ku	0.37	-177.5456 K
	Interference Check Solution A	Co (230.786 nm)	0.0016	14.06	75.7188
	Interference Check Solution A	Cr (267.716 nm)	0.0009	4.62	-28.1679
	Interference Check Solution A	Cu (327.395 nm)	0.0009	48.35	-0.2804
	Interference Check Solution A	Fe (234.350 nm)	96.3596 o	0.04	2169252.1234
	Interference Check Solution A	K (766.491 nm)	-0.0099 u	> 100.00	-345.9907
	Interference Check Solution A	Mg (279.078 nm)	262.8228 o	0.10	873615.5627
	Interference Check Solution A	Mn (257.610 nm)	0.0014	1.58	445.7132
	Interference Check Solution A	Mo (202.032 nm)	-0.0023 u	6.26	-32.4519
	Interference Check Solution A	Na (588.995 nm)	-0.1057 u	3.17	-17456.3406
	Interference Check Solution A	Ni (230.299 nm)	0.0022	16.63	104.0835
	Interference Check Solution A	Pb (220.353 nm)	-0.0025 u	32.73	-30.2060
	Interference Check Solution A	Sb (217.582 nm)	-0.0048 u	21.60	5.1116
	Interference Check Solution A	Se (196.026 nm)	0.0049	63.52	-2.5242
	Interference Check Solution A	Sn (189.925 nm)	0.0028	23.74	14.3482
	Interference Check Solution A	Sr (216.596 nm)	0.0104	3.32	155.9549
	Interference Check Solution A	Ti (336.122 nm)	0.0039	22.04	383.3806

+/- 0.0050

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Interference Check Solution A	Tl (190.794 nm)	0.0000 u	> 100.00	-4.1333
	Interference Check Solution A	V (292.401 nm)	0.0023	4.98	20.9890
	Interference Check Solution A	Y (360.074 nm)	0.86	0.54	423401.72
	Interference Check Solution A	Y_R (360.074 nm)	0.86	0.54	422096.97
	Interference Check Solution A	Zn (213.857 nm)	0.0113 K +/- 0.02	0.57	611.0584 K
2/22/2024 02:02:40	Interference Check Solution AB	Ag (328.068 nm)	0.2089	0.22	12524.2162
	Interference Check Solution AB	Al (237.312 nm)	262.9014 o	0.10	674734.8598
	Interference Check Solution AB	As (188.980 nm)	0.0935	2.79	159.7002
	Interference Check Solution AB	B (249.772 nm)	0.1285	0.26	4423.8444
	Interference Check Solution AB	Ba (230.424 nm)	0.5401	0.10	26424.8303
	Interference Check Solution AB	Be (313.107 nm)	0.5036	0.56	575616.3983
	Interference Check Solution AB	Ca (317.933 nm)	246.7674 o	0.08	9936233.1673
	Interference Check Solution AB	Cd (214.439 nm)	0.9983	0.06	63881.2038
	Interference Check Solution AB	Co (230.786 nm)	0.5004	0.31	8150.1965
	Interference Check Solution AB	Cr (267.716 nm)	0.5068	0.13	23183.0407
	Interference Check Solution AB	Cu (327.395 nm)	0.5438	0.14	21065.8869
	Interference Check Solution AB	Fe (234.350 nm)	97.2136 o	0.06	2188477.4917
	Interference Check Solution AB	K (766.491 nm)	-0.0146 u	> 100.00	-351.0585
	Interference Check Solution AB	Mg (279.078 nm)	265.0990 o	0.06	881181.5141
	Interference Check Solution AB	Mn (257.610 nm)	0.5039	0.06	170703.4811
	Interference Check Solution AB	Mo (202.032 nm)	-0.0030 u	25.27	-38.7581
	Interference Check Solution AB	Na (588.995 nm)	-0.0986 u	4.38	-17364.9951
	Interference Check Solution AB	Ni (230.299 nm)	1.0157	0.16	12399.0242
	Interference Check Solution AB	Pb (220.353 nm)	0.0473	2.72	256.9951
	Interference Check Solution AB	Sb (217.582 nm)	0.6260	0.95	1557.6700
	Interference Check Solution AB	Se (196.026 nm)	0.0549	14.92	39.0597
	Interference Check Solution AB	Sn (189.925 nm)	0.0029	14.58	14.6466
	Interference Check Solution AB	Sr (216.596 nm)	0.0107	2.16	160.6907
	Interference Check Solution AB	Ti (336.122 nm)	0.0032	19.94	286.9762
	Interference Check Solution AB	Tl (190.794 nm)	0.1030	4.66	127.4699
	Interference Check Solution AB	V (292.401 nm)	0.5152	0.14	21273.7284
	Interference Check Solution AB	Y (360.074 nm)	0.86	0.51	422653.66
	Interference Check Solution AB	Y_R (360.074 nm)	0.86	0.51	421346.94
	Interference Check Solution AB	Zn (213.857 nm)	1.0246	0.01	60226.7880
2/22/2024 02:05:54	Continuing Calibration Verification2	Ag (328.068 nm)	0.5251	0.42	31896.6699
	Continuing Calibration Verification2	Al (237.312 nm)	10.3657	0.27	26686.2424
	Continuing Calibration Verification2	As (188.980 nm)	1.0033	0.28	1848.0068
	Continuing Calibration Verification2	B (249.772 nm)	2.5250	0.04	85609.6030
	Continuing Calibration Verification2	Ba (230.424 nm)	10.5723	0.59	517491.1505
	Continuing Calibration Verification2	Be (313.107 nm)	0.2525	0.05	288527.4176
	Continuing Calibration Verification2	Ca (317.933 nm)	26.4163	0.10	1066030.2774
	Continuing Calibration Verification2	Cd (214.439 nm)	0.5221	0.10	33400.8597
	Continuing Calibration Verification2	Co (230.786 nm)	2.6262	0.34	42567.6369
	Continuing Calibration Verification2	Cr (267.716 nm)	0.5174	0.09	23666.9605
	Continuing Calibration Verification2	Cu (327.395 nm)	1.2773	0.19	49528.3038
	Continuing Calibration Verification2	Fe (234.350 nm)	5.2156	0.10	117441.5962
	Continuing Calibration Verification2	K (766.491 nm)	24.5932	0.35	26042.1996
	Continuing Calibration Verification2	Mg (279.078 nm)	25.4887	0.06	84709.9630
	Continuing Calibration Verification2	Mn (257.610 nm)	0.7677	0.04	260089.7961
	Continuing Calibration Verification2	Mo (202.032 nm)	2.6342	0.51	21817.3011
	Continuing Calibration Verification2	Na (588.995 nm)	25.1977	0.43	307633.9875
	Continuing Calibration Verification2	Ni (230.299 nm)	2.1511	0.12	26173.6305
	Continuing Calibration Verification2	Pb (220.353 nm)	0.5228	0.36	2999.0580
	Continuing Calibration Verification2	Sb (217.582 nm)	5.1061	0.09	12584.0724
	Continuing Calibration Verification2	Se (196.026 nm)	0.5000	1.51	409.6664
	Continuing Calibration Verification2	Sn (189.925 nm)	5.2144	0.13	15889.1832
	Continuing Calibration Verification2	Sr (216.596 nm)	2.5728	0.01	51537.6382

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification2	Ti (336.122 nm)	2.5735	0.12	345909.5920
	Continuing Calibration Verification2	Tl (190.794 nm)	1.0631	0.20	1354.1015
	Continuing Calibration Verification2	V (292.401 nm)	2.5722	0.12	106500.3304
	Continuing Calibration Verification2	Y (360.074 nm)	0.94	0.39	461906.93
	Continuing Calibration Verification2	Y_R (360.074 nm)	0.93	0.40	460465.23
	Continuing Calibration Verification2	Zn (213.857 nm)	0.9998	0.34	58765.6922
2/22/2024 02:09:08	Continuing Calibration Blank2	Ag (328.068 nm)	0.0002 u	95.72	-264.3818
	Continuing Calibration Blank2	Al (237.312 nm)	0.0002 u	> 100.00	86.6474
	Continuing Calibration Blank2	As (188.980 nm)	0.0013	55.60	-11.5336
	Continuing Calibration Blank2	B (249.772 nm)	0.0011	28.40	107.2633
	Continuing Calibration Blank2	Ba (230.424 nm)	0.0005	38.17	9.1555
	Continuing Calibration Blank2	Be (313.107 nm)	0.0000 u	> 100.00	-220.5538
	Continuing Calibration Blank2	Ca (317.933 nm)	-0.0009 u	19.35	2610.8605
	Continuing Calibration Blank2	Cd (214.439 nm)	0.0000 u	> 100.00	-18.7497
	Continuing Calibration Blank2	Co (230.786 nm)	0.0000 u	> 100.00	49.2643
	Continuing Calibration Blank2	Cr (267.716 nm)	-0.0001 u	88.39	-75.0483
	Continuing Calibration Blank2	Cu (327.395 nm)	-0.0001 u	> 100.00	-38.5940
	Continuing Calibration Blank2	Fe (234.350 nm)	0.0076	23.81	201.2256
	Continuing Calibration Blank2	K (766.491 nm)	0.0420	27.83	-290.3694
	Continuing Calibration Blank2	Mg (279.078 nm)	-0.0004 u	> 100.00	-16.4342
	Continuing Calibration Blank2	Mn (257.610 nm)	0.0001	31.47	-14.4357
	Continuing Calibration Blank2	Mo (202.032 nm)	0.0059	9.23	35.7348
	Continuing Calibration Blank2	Na (588.995 nm)	-0.0045 u	> 100.00	-16156.2033
	Continuing Calibration Blank2	Ni (230.299 nm)	0.0000 u	> 100.00	77.3017
	Continuing Calibration Blank2	Pb (220.353 nm)	0.0008	12.54	-11.3684
	Continuing Calibration Blank2	Sb (217.582 nm)	0.0090	9.06	39.0044
	Continuing Calibration Blank2	Se (196.026 nm)	-0.0001 u	> 100.00	-6.7526
	Continuing Calibration Blank2	Sn (189.925 nm)	0.0020	15.52	12.1058
	Continuing Calibration Blank2	Sr (216.596 nm)	0.0002	71.37	-49.4738
	Continuing Calibration Blank2	Ti (336.122 nm)	0.0076	27.96	880.9947
	Continuing Calibration Blank2	Tl (190.794 nm)	-0.0016 u	> 100.00	-6.1717
	Continuing Calibration Blank2	V (292.401 nm)	0.0003	61.78	-62.1517
	Continuing Calibration Blank2	Y (360.074 nm)	0.98	0.36	483571.12
	Continuing Calibration Blank2	Y_R (360.074 nm)	0.98	0.36	481996.28
	Continuing Calibration Blank2	Zn (213.857 nm)	0.0008	6.39	-7.3645

Summary Calibration Results

Element and wavelength	Type	Units	Equation	Correlation Coefficient	%RSE
Ag (328.068 nm)	Analyte	ppm	61265.33810659 * Concentration - 274.73112268	0.99999	4.37931052
Al (237.312 nm)	Analyte	ppm	2566.16605602 * Concentration + 86.15526572	0.99999	5.07589327
As (188.980 nm)	Analyte	ppm	1855.80039424 * Concentration - 13.90946955	0.99995	6.71293631
B (249.772 nm)	Analyte	ppm	33877.29982316 * Concentration + 71.08341036	0.99996	5.30962249
Ba (230.424 nm)	Analyte	ppm	48948.98424356 * Concentration - 14.23867282	0.99999	4.91014984
Be (313.107 nm)	Analyte	ppm	1143556.00661975 * Concentration - 230.39842661	0.99999	3.53532570
Ca (317.933 nm)	Analyte	ppm	40254.86201598 * Concentration + 2646.25952338	1.00000	5.58028351
Cd (214.439 nm)	Analyte	ppm	64008.09891447 * Concentration - 16.90050568	1.00000	16.461983 19
Co (230.786 nm)	Analyte	ppm	16189.81293490 * Concentration + 49.43101575	1.00000	3.06251427
Cr (267.716 nm)	Analyte	ppm	45882.97071992 * Concentration - 71.25892342	1.00000	6.14702987
Cu (327.395 nm)	Analyte	ppm	38802.44500565 * Concentration - 34.41711834	0.99999	4.65576271
Fe (234.350 nm)	Analyte	ppm	22511.73911091 * Concentration + 30.45788539	1.00000	7.10782711
K (766.491 nm)	Analyte	ppm	1072.55442207 * Concentration - 335.38653755	0.99993	4.83934752
Mg (279.078 nm)	Analyte	ppm	3324.02857656 * Concentration - 15.09575642	0.99999	2.83134764
Mn (257.610 nm)	Analyte	ppm	338823.74730706 * Concentration - 35.10554771	1.00000	3.89245386
Mo (202.032 nm)	Analyte	ppm	8287.47963862 * Concentration - 13.49062569	0.99999	2.44568383
Na (588.995 nm)	Analyte	ppm	12847.67664481 * Concentration - 16098.49199950	0.99999	4.52443255
Ni (230.299 nm)	Analyte	ppm	12131.93848640 * Concentration + 77.11641192	1.00000	7.75195210
Pb (220.353 nm)	Analyte	ppm	5767.25457325 * Concentration - 15.84870368	0.99999	16.747249 59
Sb (217.582 nm)	Analyte	ppm	2461.20919757 * Concentration + 16.85515442	0.99997	3.64814509
Se (196.026 nm)	Analyte	ppm	832.65215587 * Concentration - 6.63257131	0.99998	22.229168 95
Sn (189.925 nm)	Analyte	ppm	3046.05151277 * Concentration + 5.93936189	1.00000	0.29505432
Sr (216.596 nm)	Analyte	ppm	20052.70012569 * Concentration - 53.15393896	1.00000	4.01621845
Ti (336.122 nm)	Analyte	ppm	134466.51927833 * Concentration - 142.69329696	1.00000	1.81896284
Tl (190.794 nm)	Analyte	ppm	1277.61589710 * Concentration - 4.17201277	1.00000	17.393823 75
V (292.401 nm)	Analyte	ppm	41433.11474572 * Concentration - 74.15855572	0.99999	3.53062417
Zn (213.857 nm)	Analyte	ppm	58832.92596149 * Concentration - 53.85410477	0.99999	5.16705529

Detailed Calibration Results

Ag (328.068 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-274.7311	0.0000	0.0000	N/A
Standard 3	361.6082	0.0100	0.0104	3.8661
Standard 4	11726.4837	0.2000	0.1959	2.0554
Standard 5	61040.7407	1.0000	1.0008	0.0818

Al (237.312 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	86.1553	0.0000	0.0000	N/A
Standard 2	331.1257	0.1000	0.0955	4.5383
Standard 4	10117.6557	4.0000	3.9091	2.2715
Standard 5	51456.1674	20.0000	20.0182	0.0910

As (188.980 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-13.9095	0.0000	0.0000	N/A
Standard 1	-3.8622	0.0050	0.0054	8.2799

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Standard 2	4.8313	0.0100	0.0101	0.9849
Standard 4	694.7459	0.4000	0.3819	4.5351
Standard 5	3704.4214	2.0000	2.0036	0.1813

B (249.772 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	71.0834	0.0000	0.0000	N/A
Standard 2	6626.2544	0.2000	0.1935	3.2513
Standard 4	32527.4994	1.0000	0.9581	4.1942
Standard 5	169750.5709	5.0000	5.0086	0.1730

Ba (230.424 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-14.2387	0.0000	0.0000	N/A
Standard 1	1009.0715	0.0200	0.0209	4.5282
Standard 4	199496.1009	4.0000	4.0759	1.8971
Standard 5	978222.5213	20.0000	19.9848	0.0759

Be (313.107 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-230.3984	0.0000	0.0000	N/A
Standard 2	3050.7640	0.0030	0.0029	4.3579
Standard 3	5590.7477	0.0050	0.0051	1.8078
Standard 4	112234.6577	0.1000	0.0983	1.6532
Standard 5	571925.5772	0.5000	0.5003	0.0661

Ca (317.933 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	2646.2595	0.0000	0.0000	N/A
Standard 2	43561.4662	1.0000	1.0164	1.6404
Standard 3	24320.7553	0.5000	0.5384	7.6863
Standard 4	408062.0736	10.0000	10.0712	0.7123
Standard 5	2014787.2440	50.0000	49.9850	0.0299

Cd (214.439 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-16.9005	0.0000	0.0000	N/A
Standard 1	61.5248	0.0010	0.0012	22.5240
Standard 2	321.9564	0.0050	0.0053	5.8794
Standard 4	12824.3806	0.2000	0.2006	0.3098
Standard 5	63983.1576	1.0000	0.9999	0.0126

Co (230.786 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	49.4310	0.0000	0.0000	N/A
Standard 1	97.7574	0.0030	0.0030	0.5004
Standard 3	893.1448	0.0500	0.0521	4.2277
Standard 4	16368.0272	1.0000	1.0080	0.7955
Standard 5	80972.3970	5.0000	4.9984	0.0322

Cr (267.716 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-71.2589	0.0000	0.0000	N/A
Standard 1	160.7640	0.0050	0.0051	1.1368
Standard 3	427.1062	0.0100	0.0109	8.6166
Standard 4	9088.3877	0.2000	0.1996	0.1847
Standard 5	45814.6929	1.0000	1.0001	0.0065

Cu (327.395 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-34.4171	0.0000	0.0000	N/A
Standard 1	372.6224	0.0100	0.0105	4.9005
Standard 2	771.0189	0.0200	0.0208	3.7868
Standard 4	18933.4070	0.5000	0.4888	2.2339
Standard 5	97058.0639	2.5000	2.5022	0.0890

Fe (234.350 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	30.4579	0.0000	0.0000	N/A
Standard 3	2441.5575	0.1000	0.1071	7.1041
Standard 4	44950.4338	2.0000	1.9954	0.2299
Standard 5	225166.9502	10.0000	10.0008	0.0085

K (766.491 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-335.3865	0.0000	0.0000	N/A
Standard 2	1758.7965	2.0000	1.9525	2.3740
Standard 3	219.5478	0.5000	0.5174	3.4790
Standard 4	9812.0618	10.0000	9.4610	5.3899
Standard 5	53409.8042	50.0000	50.1095	0.2190

Mg (279.078 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-15.0958	0.0000	0.0000	N/A
Standard 2	3272.0372	1.0000	0.9889	1.1100
Standard 3	1701.0818	0.5000	0.5163	3.2589
Standard 4	32546.0838	10.0000	9.7957	2.0430
Standard 5	166322.3506	50.0000	50.0409	0.0818

Mn (257.610 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-35.1055	0.0000	0.0000	N/A
Standard 1	3484.9851	0.0100	0.0104	3.8915
Standard 4	101699.6015	0.3000	0.3003	0.0862
Standard 5	508182.1198	1.5000	1.4999	0.0036

Mo (202.032 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-13.4906	0.0000	0.0000	N/A
Standard 1	191.5391	0.0250	0.0247	1.0412
Standard 4	8090.7355	1.0000	0.9779	2.2112
Standard 5	41460.5691	5.0000	5.0044	0.0885

Na (588.995 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-16098.4920	0.0000	0.0000	N/A
Standard 2	-3518.7034	1.0000	0.9791	2.0851
Standard 3	-9308.8518	0.5000	0.5285	5.6944
Standard 4	109757.8809	10.0000	9.7960	2.0396
Standard 5	626811.1187	50.0000	50.0409	0.0818

Ni (230.299 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	77.1164	0.0000	0.0000	N/A
Standard 3	599.7505	0.0400	0.0431	7.6980
Standard 4	9871.2209	0.8000	0.8073	0.9124
Standard 5	48586.7861	4.0000	3.9985	0.0373

Pb (220.353 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-15.8487	0.0000	0.0000	N/A
Standard 1	19.6618	0.0050	0.0062	23.1452
Standard 2	286.1508	0.0500	0.0524	4.7290
Standard 4	1157.1447	0.2000	0.2034	1.6943
Standard 5	5746.7822	1.0000	0.9992	0.0802

Sb (217.582 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	16.8552	0.0000	0.0000	N/A
Standard 1	41.5581	0.0100	0.0100	0.3693
Standard 2	158.7991	0.0600	0.0577	3.8792
Standard 4	4772.9665	2.0000	1.9324	3.3786
Standard 5	24662.2428	10.0000	10.0135	0.1353

Se (196.026 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-6.6326	0.0000	0.0000	N/A
Standard 2	-0.1372	0.0100	0.0078	21.9922
Standard 4	154.5118	0.2000	0.1935	3.2343
Standard 5	827.1151	1.0000	1.0013	0.1316

Sn (189.925 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	5.9394	0.0000	0.0000	N/A
Standard 2	1532.7731	0.5000	0.5013	0.2500
Standard 4	6088.5044	2.0000	1.9969	0.1566
Standard 5	30468.1717	10.0000	10.0006	0.0056

Sr (216.596 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-53.1539	0.0000	0.0000	N/A
Standard 3	989.0084	0.0500	0.0520	3.9423
Standard 4	20153.1786	1.0000	1.0077	0.7661
Standard 5	100179.2249	5.0000	4.9984	0.0310

Ti (336.122 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-142.6933	0.0000	0.0000	N/A
Standard 3	6491.1586	0.0500	0.0493	1.3308
Standard 4	132657.7839	1.0000	0.9876	1.2390
Standard 5	672524.0063	5.0000	5.0025	0.0497

Tl (190.794 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-4.1720	0.0000	0.0000	N/A
Standard 1	5.4625	0.0100	0.0075	24.5900
Standard 3	21.3492	0.0200	0.0200	0.1219
Standard 4	510.1330	0.4000	0.4026	0.6376
Standard 5	2550.4241	2.0000	1.9995	0.0249

V (292.401 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-74.1586	0.0000	0.0000	N/A
Standard 1	45.2329	0.0030	0.0029	3.9485
Standard 3	1948.0294	0.0500	0.0488	2.3878
Standard 4	40569.2624	1.0000	0.9809	1.9059
Standard 5	207249.8516	5.0000	5.0038	0.0765

Zn (213.857 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-53.8541	0.0000	0.0000	N/A
Standard 1	508.3181	0.0100	0.0096	4.4460
Standard 3	1186.8138	0.0200	0.0211	5.4399
Standard 4	23006.8391	0.4000	0.3920	2.0077
Standard 5	117705.9839	2.0000	2.0016	0.0799

Preparation Information Benchsheet

Prep Run#: 434252
Team: Metals/ECASTROVINCI

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 2/20/24 12:51

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2401787-01	MB		50mL	6010C/Al D, Al T, As D, As T, Ca D, Ca T, Cd D, Cd T, Cr D, Cr T, Cu D, Cu T, Fe D, Fe T, K D, K T, Mg D, Mg T, Mn D, Mn T, Na D, Na T, Ni D, Ni T, Pb D, Pb T	<2			50.00mL	Colorless-Clear		HB: 11 Well: F5 Temp: 90.8C
2	RQ2401787-05	MB		50mL	6010C/Al D, As D, Ca D, Cd D, Cr D, Cu D, Fe D, K D, Mg D, Mn D, Na D, Ni D, Pb D	<2			50.00mL	Colorless-Clear		Filter Blank R2401216, R2401217 2/20/24
3	RQ2401787-02	LCS		50mL	6010C/Al D, Al T, As D, As T, Ca D, Ca T, Cd D, Cd T, Cr D, Cr T, Cu D, Cu T, Fe D, Fe T, K D, K T, Mg D, Mg T, Mn D, Mn T, Na D, Na T, Ni D, Ni T, Pb D, Pb T	<2			50.00mL	Colorless-Clear	0.5000 mL/230954; 0.5000 mL/230955; 0.5000 mL/233441	On HB: 16:50 HB Shutoff: 02:50 Pipets: M340,MA100,M23
4	R2401217-001	MW-1S	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
5	R2401217-002	MW-17I	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
6	R2401217-003	MW-17S	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
7	R2401217-004	MW-7I	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
8	RQ2401787-03	R2401217-004 MS	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear	0.5000 mL/230955; 0.5000 mL/233441; 0.5000 mL/230954	
9	RQ2401787-04	R2401217-004 DMS	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear	0.5000 mL/233441; 0.5000 mL/230954; 0.5000 mL/230955	
10	R2401217-005	MW-7	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
11	R2401217-006	MW-6I	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear		
12	R2401217-007	MW-6S	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Cloudy		
13	R2401217-008	Equipment Blank - Bailer	.07	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear		
14	R2401217-009	MW-15D	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear		
15	R2401217-010	MW-2	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 434252
Team: Metals/ECASTROVINCI
Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A
Status: Prepped
Prep Date/Time: 2/20/24 12:51

16	R2401217-011	MW-12	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
17	R2401217-012	MW-18I	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
18	R2401217-013	MW-18S	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
19	R2401217-014	MW-5XI	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear		
20	R2401217-015	MW-5XI DUP	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear		
21	R2401217-016	MW-5XS	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear		
22	R2401217-017	MW-18S Diss	.02	50mL	6010C/Al D, As D, Ca D, Cd D, Cr D, Cu D, Fe D, K D, Mg D, Mn D, Na D, Ni D, Pb D	<2			50.00mL	Colorless-Clear		
23	R2401218-001	Secondary Leachate Cell 6	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
24	R2401218-002	Primary Leachate Cell 6	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Brown-Cloudy/Colorless-Clear		
25	R2401218-003	Total Leachate	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Brown-Cloudy/Colorless-Clear		

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	230954	Logbook Ref:	230954	Expires On:	02/28/2025	Lot #: 2320923-5
Name:	Custom LCS STD B Metals	Inventory ID	230955	Logbook Ref:	230955	Expires On:	02/28/2025	Lot #: 2320908-5
Name:	C Spike	Inventory ID	233441	Logbook Ref:	233441	Expires On:	06/30/2024	

Preparation Materials

1:1 HCl Metals Grade	1:1 232049 (232050)	Hot Block Cups	50mL Lot 2304355 (232860)	Nitric Acid Metals Grade HNO3 231748 (231748)
Thermometer	461 (230831)			

Preparation Steps

Step: Digestion
Started: 2/20/24 12:51
Finished: 2/21/24 11:08
By: ECASTROVINCI
Comments

1217 - 2123
1218 - 2123

20
100

Preparation Information Benchsheet

Prep Run#: 434252
Team: Metals/ECASTROVINCI

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 2/20/24 12:51

Comments: _____

Reviewed By: Molly Millahn Date: 2/21/24

Chain of Custody

Relinquished By: _____ Date: 2/21/24

Received By: RAD1 Date: 2/21/24

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 434253
Team: Metals/ECASTROVINCI

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 2/20/24 12:51

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2401788-01	MB		50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca D, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		HB: 11 Well: F5 Temp: 90.8C
2	RQ2401788-02	LCS		50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca D, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/230955; 0.5000 mL/230954; 0.5000 mL/233441	On HB: 16:50 HB Shutoff: 02:50 Pipets: M340,MA100,M23
3	R2401215-001	River Downstream	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear		
4	RQ2401788-03	R2401215-001 MS	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear	0.5000 mL/230954; 0.5000 mL/233441; 0.5000 mL/230955	
5	RQ2401788-04	R2401215-001 DMS	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear	0.5000 mL/230955; 0.5000 mL/233441; 0.5000 mL/230954	
6	R2401215-002	River Upstream	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear		
7	R2401216-001	MW-13	.05	50mL	6010C/Ca T, K T, Mg T, Na T	<2			50.00mL	Colorless-Clear		
8	R2401216-002	MW-13 Diss	.01	50mL	6010C/Ca D	<2			50.00mL	Colorless-Clear		
9	R2401216-003	MW-15S	.05	50mL	6010C/Ca T, K T, Mg T, Na T	<2			50.00mL	Colorless-Clear		
10	R2401216-004	MW-15S Diss	.01	50mL	6010C/Ca D	<2			50.00mL	Colorless-Clear		
11	R2401216-005	Landfill Shop Well	.05	50mL	6010C/Ca T, K T, Mg T, Na T	<2			50.00mL	Colorless-Clear		
12	R2401216-006	Landfill Shop Well Diss	.01	50mL	6010C/Ca D	<2			50.00mL	Colorless-Clear		
13	R2401216-007	MW-8	.05	50mL	6010C/Ca T, K T, Mg T, Na T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
14	R2401216-008	MW-8 Diss	.01	50mL	6010C/Ca D	<2			50.00mL	Colorless-Clear		
15	R2401241-005	2402120946C-100-A-182	.02	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
16	R2401325-001	MW-25D	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
17	R2401325-002	MW-25S	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	230954	Logbook Ref:	230954	Expires On:	02/28/2025	Lot #:	2320923-5
Name:	Custom LCS STD B Metals	Inventory ID	230955	Logbook Ref:	230955	Expires On:	02/28/2025	Lot #:	2320908-5
Name:	C Spike	Inventory ID	233441	Logbook Ref:	233441	Expires On:	06/30/2024		

Preparation Information Benchsheet

Prep Run#: 434253
Team: Metals/ECASTROVINCI

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 2/20/24 12:51

Preparation Materials

1:1 HCl Metals Grade	1:1 232049 (232050)	Hot Block Cups	50mL Lot 2304355 (232860)	Nitric Acid Metals Grade HNO3	231748 (231748)
Thermometer	461 (230831)				

Preparation Steps

Step: Digestion
Started: 2/20/24 12:51
Finished: 2/21/24 11:19
By: ECASTROVINCI
Comments

1215 - 2/23
1216 - 2/23
1325 - 2/27
1241 - 2/26

Comments: _____

Reviewed By: Molly McMahon Date: 2/21/24

Chain of Custody

Relinquished By: Eric Castrovinci Date: 2/21/24

Received By: RAO1 Date: 2/21/24

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 434254
Team: Metals/ECASTROVINCI

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 2/20/24 12:51

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2401789-01	MB		50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		HB: 1 Well: F5 Temp: 93.1C
2	RQ2401789-02	LCS		50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear	0.5000 mL/233441; 0.5000 mL/230955; 0.5000 mL/230954	On HB: 16:50 HB Shutoff: 02:50 Pipets: M340,MA100,M23
3	R2401280-002	OLN-CW013-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		Tier IV
4	R2401280-003	OLN-CW13A-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
5	R2401280-004	OLN-FB001-B007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
6	R2401280-006	OLN-WW18m-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
7	R2401280-008	OLN-RU009-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
8	R2401280-009	OLN-RU028-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
9	R2401280-010	OLN-RU011-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
10	R2401280-011	OLN-RU27A-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
11	R2401280-012	OLN-FB002-B007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
12	R2401280-013	OLN-RU015-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
13	R2401280-014	OLN-RU016-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
14	R2401280-015	OLN-FD001-D007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
15	R2401280-016	OLN-RU020-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
16	R2401280-017	OLN-RU019-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
17	R2401280-018	OLN-RU021-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
18	RQ2401789-03	R2401280-018 MS	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear	0.5000 mL/230955; 0.5000 mL/233441; 0.5000 mL/230954	
19	RQ2401789-04	R2401280-018 DMS	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear	0.5000 mL/230954; 0.5000 mL/230955; 0.5000 mL/233441	
20	R2401280-019	OLN-UA002-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
21	R2401280-020	OLN-EB001-E007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
22	R2401280-022	OLN-UA003-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
23	R2401280-023	OLN-RU008-F007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
24	R2401280-024	OLN-FB003-B007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	230954	Logbook Ref:	230954	Expires On:	02/28/2025	Lot #: 2320923-5
Name:	Custom LCS STD B Metals	Inventory ID	230955	Logbook Ref:	230955	Expires On:	02/28/2025	Lot #: 2320908-5
Name:	C Spike	Inventory ID	233441	Logbook Ref:	233441	Expires On:	06/30/2024	

Preparation Materials

1:1 HCl Metals Grade	1:1 232049 (232050)	Hot Block Cups	50mL Lot 2304355 (232860)	Nitric Acid Metals Grade HNO3 231748 (231748)
Thermometer	460 (230830)			

Preparation Information Benchsheet

Prep Run#: 434254
Team: Metals/ECASTROVINCI

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 2/20/24 12:51

Preparation Steps

Step: Digestion
Started: 2/20/24 12:51
Finished: 2/21/24 11:19
By: ECASTROVINCI
Comments

1280 - 3/1 (IV)

Comments: _____

Reviewed By: _____ Date: 2/21/24

Chain of Custody

Relinquished By: _____ Date: 2/21/24

Received By: RAJ Date: 2/21/24

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 434255
Team: Metals/ECASTROVINCI

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 2/20/24 12:51

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2401790-01	MB		50mL	6010C/Ag T, Al T, As D, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe D, Fe T, K T, Mg T, Mn D, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Sr T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		HB: 1 Well: F5 Temp: 93.1C
2	RQ2401790-02	LCS		50mL	6010C/Ag T, Al T, As D, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe D, Fe T, K T, Mg T, Mn D, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Sr T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/230954; 0.5000 mL/230955; 0.5000 mL/233441	On HB: 16:50 HB Shutoff: 02:50 Pipets: M340,MA100,M23
3	R2401280-025	OLN-FD002-D007	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		Tier IV
4	R2401303-001	SCA-PAR0026-01	.07	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		Tier IV
5	R2401303-002	SCA-PAR0026-02	.07	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
6	R2401306-001	2402141020C ST-5-481	.02	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		Tier IV
7	R2401306-002	2402141021C ST-5-481	.02	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		
8	R2401306-007	2402141336X 200-C-270	.02	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
9	R2401306-008	2402141449C 300-A-170	.02	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		
10	R2401306-009	2402141450C 300-A-170	.02	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 434255 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/ECASTROVINCI **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 2/20/24 12:51

11	R2401306-010	2402141451C 300-A-170	.02	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		
12	R2401340-001	ACODOWN-021924-1430	.02	50mL	6010C/Cr T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		Tier IV
13	RQ2401790-03	R2401340-001 MS	.02	50mL	6010C/Cr T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear	0.5000 mL/230955; 0.5000 mL/230954; 0.5000 mL/233441	
14	RQ2401790-04	R2401340-001 DMS	.02	50mL	6010C/Cr T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear	0.5000 mL/233441; 0.5000 mL/230954; 0.5000 mL/230955	
15	R2401340-002	20610-021924-0001	.02	50mL	6010C/Cr T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
16	R2401340-003	UP00800-021924-1530	.02	50mL	6010C/Cr T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
17	R2401340-004	UP02450-021924-1630	.02	50mL	6010C/Cr T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
18	R2401340-005	20610-021924-0002	.02	50mL	6010C/Cr T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	230954	Logbook Ref:	230954	Expires On:	02/28/2025	Lot #: 2320923-5
Name:	Custom LCS STD B Metals	Inventory ID	230955	Logbook Ref:	230955	Expires On:	02/28/2025	Lot #: 2320908-5
Name:	C Spike	Inventory ID	233441	Logbook Ref:	233441	Expires On:	06/30/2024	

Preparation Materials

1:1 HCl Metals Grade 1:1 232049 (232050) Hot Block Cups 50mL Lot 2304355 (232860) Nitric Acid Metals Grade HNO3 231748 (231748)
Thermometer 460 (230830)

Preparation Steps

Step: Digestion
Started: 2/20/24 12:51
Finished: 2/21/24 11:19
By: ECASTROVINCI
Comments

1280 - 3/1 (IV)
1303 - 3/1 (IV)
1340 - 3/1 (IV)
1306 - ~~2/27~~ 2/26 (IV)

Comments: _____

Reviewed By: Molly McMahon Date: 2/21/24

Chain of Custody

Relinquished By: Em Cot Date: 2/21/24 Extracts Examined
Received By: RACR Date: 2/21/24 Yes No

Preparation Information Benchsheet

Prep Run#: 434308 **Prep WorkFlow:** MetDigSICP **Status:** Prepped
Team: Metals/NMANSEN **Prep Method:** EPA 3050B **Prep Date/Time:** 2/21/24 07:45

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2401818-01	MB		0.5g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	White-Coarse/Colorless-Clear		HB: 12 Well: G6 Temp: 90.8C/93.9C
2	RQ2401818-02	LCS		0.5g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	White-Coarse/Colorless-Clear	0.5000 mL/230954; 0.5000 mL/230955; 0.5000 mL/233441	On HB:9:50-10:05,10:10-10:40, 10:45-11:15,12:00-12:15,12: 20:12:35 Pipets:M23,M33,M38,M380 ,MA100,M340
3	R2401222-001	Biosolids	.01	0.5200g	6010C/As T, Cd T, Cr T, Cu T, Mo T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Tan-Clear		
4	R2401252-003	Compost Pile 2023-10	.01	0.5500g	6010C/As T, Cd T, Cr T, Cu T, K T, Mo T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
5	R2401252-004	Compost Pile 2023-11	.01	0.5400g	6010C/As T, Cd T, Cr T, Cu T, K T, Mo T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
6	R2401281-001	800 Stockpile	.02	0.5100g	6010C/Cd T, Pb T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
7	R2401312-001	Post-SS-15-0.5-1	.01	0.5300g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		Tier IV
8	R2401333-001	Front Driver Side	.01	0.5300g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Brownish Red-Medium/Yellow-Clear		Tier IV
9	R2401333-002	Back Driver Side	.01	0.5500g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
10	R2401333-003	Passenger Side Middle	.01	0.5400g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Brown-Medium/BrownClear		
11	RQ2401818-03	R2401333-003 MS	.01	0.5400g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Brown-Medium/Yellow-Clear	0.5000 mL/233441; 0.5000 mL/230955; 0.5000 mL/230954	
12	RQ2401818-04	R2401333-003 DMS	.01	0.5300g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Brown-Medium/Yellow-Clear	0.5000 mL/233441; 0.5000 mL/230954; 0.5000 mL/230955	

Preparation Information Benchsheet

Prep Run#: 434308
Team: Metals/NMANSEN
Prep WorkFlow: MetDigSICP
Prep Method: EPA 3050B
Status: Prepped
Prep Date/Time: 2/21/24 07:45

13	R2401334-001	POST-SS-08-0-0.5	.01	0.5200g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		Tier IV
14	R2401334-003	POST-SS-03-1-2	.01	0.5100g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		Tier IV

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	230954	Logbook Ref:	230954	Expires On:	02/28/2025 Lot #: 2320923-
Name:	Custom LCS STD B Metals	Inventory ID	230955	Logbook Ref:	230955	Expires On:	02/28/2025 Lot #: 2320908-
Name:	C Spike	Inventory ID	233441	Logbook Ref:	233441	Expires On:	06/30/2024

Preparation Materials

1:1 HCl Metals Grade	1:1 232049 (232050)	1:1 Nitric Acid Metals Grade	1:1 231748 (232391)	Hot Block Cups	50mL Lot 2304355 (232860)
Hydrogen Peroxide 30% Reagent Grade H2O2	222889 (222889)	Nitric Acid Metals Grade HNO3	231748 (231748)	Thermometer	462 (230832)

Preparation Steps

Step: Digestion
Started: 2/21/24 07:45
Finished: 2/21/24 13:09
By: ECASTROVINCI
Comments

Comments:

Reviewed By: Holly Wellah Date: 2/21/24

Chain of Custody

Relinquished By: Nicole Mansen Date: 2/21/24
Received By: RAO1 Date: 2/21/24

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 434309
Team: Metals/NMANSEN

Prep WorkFlow: MetDigSICP
Prep Method: EPA 3050B

Status: Prepped
Prep Date/Time: 2/21/24 07:45

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2401819-01	MB		0.5g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	White-Coarse/Colorless-Clear		HB: 12 Well: G6 Temp: 90.8C/93.9C
2	RQ2401819-02	LCS		0.5g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	White-Coarse/Colorless-Clear		On HB:9:50-10:05,10:10-10:40,10:45-11:15,12:00-12:15,12:20:12:35 Pipets:M23,M33,M38,M380,MA100,M340
3	R2401277-001	Post-SB-09-0-5.7	.01	0.5200g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		Tier IV
4	RQ2401819-03	R2401277-001 MS	.01	0.5100g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
5	RQ2401819-04	R2401277-001 DMS	.01	0.5200g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
6	R2401345-001	B01	.01	0.5200g	6010C/Ag T, As T, Ba T, Be T, Cd T, Cr T, Cu T, Mn T, Ni T, Pb T, Se T, Zn T				50.00mL	Brownish Red-Medium/Yellow-Clear		Tier IV
7	R2401345-002	B02	.01	0.5100g	6010C/Ag T, As T, Ba T, Be T, Cd T, Cr T, Cu T, Mn T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
8	R2401345-003	B03	.01	0.5400g	6010C/Ag T, As T, Ba T, Be T, Cd T, Cr T, Cu T, Mn T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
9	R2401345-004	B04	.01	0.5500g	6010C/Ag T, As T, Ba T, Be T, Cd T, Cr T, Cu T, Mn T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
10	R2401345-005	B05	.01	0.5100g	6010C/Ag T, As T, Ba T, Be T, Cd T, Cr T, Cu T, Mn T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
11	R2401345-006	B06	.01	0.5200g	6010C/Ag T, As T, Ba T, Be T, Cd T, Cr T, Cu T, Mn T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
12	R2401345-007	B07	.01	0.5400g	6010C/Ag T, As T, Ba T, Be T, Cd T, Cr T, Cu T, Mn T, Ni T, Pb T, Se T, Zn T				50.00mL	Brownish Red-Medium/Yellow-Clear		
13	R2401345-008	B08	.01	0.5500g	6010C/Ag T, As T, Ba T, Be T, Cd T, Cr T, Cu T, Mn T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		

Preparation Information Benchsheet

Prep Run#: 434309
Team: Metals/NMANSEN

Prep WorkFlow: MetDigSICP
Prep Method: EPA 3050B

Status: Prepped
Prep Date/Time: 2/21/24 07:45

14	R2401345-009	B09	.01	0.5100g	6010C/Ag T, As T, Ba T, Be T, Cd T, Cr T, Cu T, Mn T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
15	R2401345-010	B10	.01	0.5g	6010C/Ag T, As T, Ba T, Be T, Cd T, Cr T, Cu T, Mn T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		

Preparation Materials

1:1 HCl Metals Grade	1:1 232049 (232050)	1:1 Nitric Acid Metals Grade	1:1 231748 (232391)	Hot Block Cups	50mL Lot 2304355 (232860)
Hydrogen Peroxide 30% Reagent Grade H2O2	222889 (222889)	Nitric Acid Metals Grade HNO3	231748 (231748)	Thermometer	462 (230832)

Preparation Steps

Step: Digestion
Started: 2/21/24 07:45
Finished: 2/21/24 13:15
By: ECASTROVINCI
Comments

Comments: _____

Reviewed By: Holly Wheeler Date: 2/21/24

Chain of Custody

Relinquished By: Nicole Mansen Date: 2/21/24

Received By: RAOI Date: 2/21/24

Extracts Examined
Yes No

Date: 2/21/24 Analyst: EC (weights)

Prep Number: 434308, 434309 Balance ID: R-Balance-03

Sample	ICP (g)	Hg (g)	Sample Description
R2401222-01	0.52		B-M
1252-03	0.55		
04	0.54		
1277-01	0.52 → MS-0.51		
1312-01	0.53	MSD-0.52	
1333-01	0.53		B-red-M
02	0.55		
03	0.54		B-M
3MS	0.54		
3MSD	0.53		
1334-01	0.52		
03	0.51		
1345-01	0.52		B-red-M
2	0.51		B-M
3	0.54		
4	0.55		
5	0.51		
6	0.52		
7	0.54		B-red-M
8	0.55		B-M
9	0.51		
10	0.50		
1281-01	0.51		

NM 2/21/24

1222-1 2/23 ICP SOILS

1252-3,4 2/26

1277-1 3/1 (IV)

1281-1 2/26

1333-1,2,3 3/5 (IV)

1334-1,3 3/8 (IV)

1312-1 3/4 (IV)

1345-1→10 3/8 (IV)

ICP ICV/CCV (Standard is prepared daily)
(ICV FOR ILM5.3 IS A ½ DILUTION OF THIS STANDARD)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 1	CA	231799	5000	1.00	200	25.0
	MG		5000			25.0
	K		5000			25.0
	NA		5000			25.0
Cal Std 2	AG	231800	100	1.00		0.500
	CR		100			0.500
	MN		150			0.750
	NI		400			2.00
	ZN		200			1.00
Cal Std 3	AL	230757	2000	1.00		10.0
	BA		2000			10.0
	BE		50			0.250
	CO		500			2.50
	CU		250			1.25
	FE		1000			5.00
	V		500			2.50
Cal Std 4	AS	230300	100	2.00		1.00
	CD		50			0.500
	PB		50			0.500
	SE		50			0.500
	TL		100			1.00
Single Metals	SB	230314	1000	1.00		5.00
	SN	230319	1000	1.00		5.00
	B	231910	1000	0.500		2.50
	MO	230303	1000	0.500		2.50
	TI	225912	1000	0.500		2.50
	SR	230304	1000	0.500		2.50
	P	—	1000	1.00		5.00

Analyst/ Date	Letter ID	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Pipet ID
MFM 2/12/24	A	231748 10%	232049 5%	M36
NM 2/13/24	B	231748 10%	232049 5%	M40
MFM 2/14/24	C	231748 2%	232049 5%	M40
MFM 2/15/24	D	231748 10%	232049 5%	M40
MFM 2/16/24	E	231748 2%	232049 5%	M40
NM 2/20/24	F	231748 10%	232049 5%	M40
MFM 2/21/24	G	231748 10%	232049 5%	M40
	H			
	I			
	J			
	K			
	L			
	M			
	N			
	O			
	P			
	Q			
	R			
	S			
	T			
	U			
	V			
	W			
	X			
	Y			
	Z			
	AA			
	BB			

ICP CALIBRATION STANDARD #1 (Standard is prepared every 6 months or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std.1 Int.	AL	M8440003A	20.0	1.00	1000	0.020
	AS		5.00			0.0050
	CD		1.00			0.0010
	CO		3.00			0.0030
	CR		5.00			0.0050
	PB		5.00			0.0050
	V		3.00			0.0030
Cal Std. 1	CA	226704	5000	0.100		0.500
	K		5000			BELOW
	MG		5000			0.500
	NA		5000			0.500
Single Element	BA	227183	1000	0.020		0.020
	CU	230454	1000	0.010		0.010
	K	229196	10000	0.150		2.00
	MN	227184	1000	0.010		0.010
	MO	226706	1000	0.025		0.025
	SB	230313	1000	0.010		0.010
	TL	226708	1000	0.010		0.010
	ZN	227186	1000	0.010		0.010
	P	–	1000	0.100		0.100

Analyst/ Date	Letter ID	Nitric Acid Lot#/ Concentration	Hydrochloric Acid Lot #/ Concentration	Expiration Date	Pipet ID
NM 10/2/23	A	229709 2%	231167 5%	3/28/24	M37 M36
NM 10/2/23	B	229709 10%	231167 5%	3/28/24	M37 M36
	C				
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				

ICP CALIBRATION STANDARD #2
(Standard is prepared every 6 months or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Single Element	AL	199356	1000	0.100	1000	0.100
	AS	230302	1000	0.010		0.010
	B	226705	1000	0.200		0.200
	BE	230311 (1/10)	100	0.030		0.003
	CA	230305	10000	0.100		1.00
	CD	227603 (1/10)	100	0.050		0.005
	CU	230454	1000	0.020		0.020
	K	229196	10000	0.200		2.00
	MG	230307	10000	0.100		1.00
	NA	230308	10000	0.100		1.00
	PB	227185	1000	0.050		0.050
	SB	230313	1000	0.060		0.060
	SE	230309	1000	0.010		0.010
	SN	229641	1000	0.500		0.500

Analyst/ Date	Letter ID	Nitric Acid Lot#	Hydrochloric Acid Lot #	Expiration Date	Pipet ID
NM 10/2/23	A	229709 2%	231167 5%	4/2/24	M37 M36
NM 10/2/23	B	229709 10%	231167 5%	4/2/24	M37 M36
	C				
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				

ICP CALIBRATION STANDARD #5 / HLCCV1 (Standard is prepared every 6 months or as necessary)

(CALIBRATION STANDARD #3 IS A 1/100 DILUTION OF THIS STANDARD)
(CALIBRATION STANDARD #4 IS A 1/5 DILUTION OF THIS STANDARD)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 2	AG	230301	100	~~2.00~~	~~200~~	1.00
	CR		100	5.00	500	1.00
	MN		150			1.50
	NI		400			4.00
	ZN		200			2.00
Cal Std 3	AL	233055	2000	~~2.00~~		20.0
	BA		2000	5.00		20.0
	BE		50			0.500
	CO		500			5.00
	CU		250			2.50
	FE		1000			10.0
	V		500			5.00
Cal Std 4	AS	231798	100	~~1.00~~		2.00
	CD		50	10.00		1.00
	PB		50			1.00
	SE		50			1.00
	TL		100			2.00
Single Metals	CA	230305	10000	~~1.00~~	2.50	50.0
	MG	230307	10000	~~1.00~~	2.50	50.0
	K	229196	10000	~~1.00~~	2.50	50.0
	NA	230308	10000	~~1.00~~	2.50	50.0
	SB	230313	1000	~~2.00~~	5.00	10.0
	SN	231915	1000	~~2.00~~	5.00	10.0
	B	226705	1000	~~1.00~~	2.50	5.00
	MO	226706	1000	~~1.00~~	2.50	5.00
	TI	230316	1000	~~1.00~~	2.50	5.00
	SR	230310	1000	~~1.00~~	2.50	5.00

Analyst/ Date	Letter ID	Nitric Acid Lot#/ Concentration	Hydrochloric Acid Lot #/ Concentration	Expiration Date	Pipet ID
NM 1/31/24	A	231748 2%	232049 5%	6/30/24	M38
NM 1/31/24	B	231748 10%	232049 5%	6/30/24	M38
	C				
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				
	BB				

ICP HLCCV2 (Standard is prepared every 6 months or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 2	AG	230301	100	~~2.00~~	100	2.00
	CR		100	4.00	200	Below
	MN		150			Below
	NI		400			8.00
	ZN		200			4.00
Cal Std 3	AL	233055	2000	~~2.00~~		Below
	BA		2000	4.00		40.0
	BE		50			1.00
	CO, V		500			10.0
	CU		250			5.00
	FE		1000			Below
Cal Std 4	AS, TL	231798	100	~~4.00~~		4.00
	CD, SE		50	8.00		2.00
	PB		50			Below
Single Metals	B	226705	1000	~~1.00~~	2.00	10.0
	MO	226706	1000	~~1.00~~	2.00	10.0
	TI	230316	1000	~~1.00~~	2.00	10.0
	SR	230310	1000	~~1.00~~	2.00	10.0
	CA	230305	10000	~~2.50~~	5.00	250
	MG	230307	10000	~~5.00~~	10.00	500
	NA	230308	10000	~~2.00~~	4.00	~~150~~ 200
	CR	230312	1000	~~0.800~~	1.60	10.0
	FE	230306	10000	~~0.300~~	0.60	50
	AL	226846	10000	~~4.60~~	9.20	500
	MN	227184	1000	~~0.700~~	1.40	10.00
	PB	227185	1000	~~0.800~~	1.60	10.0
	K	229196	10000	~~1.50~~	3.00	150

MFM 1/8/24

Analyst/ Date	Letter ID	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
MFM 1/8/24	A	231748 2%	232049 5%	6/8/24	M36 M38
MFM 1/31/24	B	231748 10%	232049 5%	6/30/24	M36 M38
	C				
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				

ICP HLCCV3 (Standard is prepared every 6 months or as necessary)

Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)
CA	230305	10,000	~~2.000~~ 4.00	~~100~~ 200
CU	230454	1000	~~0.400~~ 0.800	
FE	230306	10,000	~~0.400~~ 0.800	
K	229196	10,000	~~1.000~~ 2.00	
TL	226708	1000	~~0.300~~ 0.600	
NA	230308	10,000	~~1.500~~ 3.00	
MG	230307	10,000	~~4.000~~ 8.00	

Final Conc. (ppm)	Matrix	Analyst / Date	Letter ID	Nitric Acid Lot #	HCL Lot #	Expiration Date	Pipet ID
200.00	2% HNO3 5% HCl	NM 9/13/23	A	229709	229711	3/13/24	M36 #38
4.00	10% HNO3 5% HCl	NM 9/13/23	B	229709	229711	3/13/24	M36 #38
40.00	10% HNO3 5% HCl	NM 12/6/23	C	231748	232009	6/6/24	M36 #38
100.00			D				
3.00			E				
150.00			F				
400.00			G				
			H				
			I				
			J				
			K				
			L				
			M				
			N				
			O				
			P				
			Q				
			R				
			S				
			T				
			U				

ICP MRL (Standard is prepared every 6 months or as needed)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 1	CA	226704	5000	0.200	1000	1.00
	MG		5000			1.00
	K		5000			1.00
	NA		5000			1.00
Cal Std 2	AG	230301	100	0.100		0.0100
	CR		100			0.0100
	MN		150			0.0150
	NI		400			0.0400
	ZN		200			0.0200
Cal Std 3	AL	233055	2000	0.100		0.200
	BA		2000			0.200
	BE		50			0.0050
	CO		500			0.0500
	CU		250			0.0250
	FE		1000			0.100
	V		500			0.0500
Cal Std 4	AS	231798	100	0.200		0.0200
	CD		50			0.0100
	PB		50			0.0100
	SE		50			0.0100
	TL		100			0.0200
Single Metals	B	226705	1000	0.200		0.200
	MO	226706	1000	0.025		0.0250
	SN	231915	1000	0.500		0.500
	TI	230316	1000	0.050		0.0500
	SB	230313	1000	0.060		0.0600
	SR	230310	1000	0.100		0.100
	P	—	1000	0.100		0.100

Analyst/ Date	Letter ID	Nitric Acid Lot# / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
MFM 2/8/24	A	231748 10%	232049 8%	3/28/24	M36 M37
	B				
	C				
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				
	BB				

ICP ICSA STANDARD (Standard is prepared every 6 months or as necessary)

Element	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Int. A Sol'n	230960	Multi	50	1000	Multi
AL		5000			250
CA		5000			250
FE		2000			100
MG		5000			250

Analyst/ Date	ID Letter	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 10/17/23	A	229709 2%	231167 5%	4/17/24	dispo
NM 10/17/23	B	229709 10%	231167 5%	4/17/24	dispo
NM 12/6/23	C	231748 10%	232049 5%	6/6/24	dispo
NM 12/7/23	D	231748 10%	232049 5%	6/7/24	dispo
NM 12/21/23	E	231748 2%	232049 5%	6/21/24	dispo
MFM 2/12/24	F	231748 10%	232049 5%	8/12/24	dispo
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				

ICP ICSAB STANDARD (Standard is prepared every 6 months or as necessary)

Element	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Int. A Sol'n	228413	Multi	~~25~~ 50	~~500~~ 1000	Multi
AL		5000			250
CA		5000			250
FE		2000			100
MG		5000			250
Int. B Sol'n	228979	Multi	~~5~~ 10		Multi
AG		20			0.200
BA		50			0.500
BE		50			0.500
CD		100			1.00
CO		50			0.500
CR		50			0.500
CU		50			0.500
MN		50			0.500
NI		100			1.00
PB		5			0.0500
V		50			0.500
ZN		100			1.00
AS		10			0.100
SB		60			0.600
SE		5			0.0500
TL		10			0.100

Analyst/ Date	ID Letter	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 6/30/23	A	228400 2%	229711 5%	12/30/23	M38
NM 6/30/23	B	228400 10%	229711 5%	12/30/23	M38
NM 9/13/23	C	229709 2%	229711 5%	3/13/24	M38
NM 9/13/23	D	229709 10%	229711 5%	3/13/24	M38
NM 11/14/23	E	229709 10%	231167 5%	3/13/24	disp
NM 12/21/23	F	231748 2%	~~231167~~ 232099 5%	6/21/24	disp
NM 12/21/23	G	231748 10%	232099 5%	6/21/24	disp
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				

MFM 1/12/24

ICP INTERNAL STANDARD (ADDED ON-LINE)

Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot #	Hydro-chloric Acid Lot #	Expiration Date	Pipet ID
Y	226709	10000	2.0	2000	10.0	5 % HCl 2%HNO3	MFM 1/25/24	A	231748	232049	6/30/24	M40
CS	226847	10000	2.0		10.0		MFM 1/25/24	B	231748	232049	6/30/24	M40
							MFM 2/13/24	C	231748	232049	6/30/24	M40
							MFM 2/13/24	D	231748	232049	6/30/24	M40
								E				
								F				
								G				
								H				
								I				
								J				
								K				
								L				
								M				
								N				
								O				
								P				
								Q				
								R				
								S				
								T				
								V				

Sample Dilutions

Final Volume: 8-10mL

Analyst: MFM
Instrument: ICP-7

Date 2/21/24
Analysis 6010C

Common Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor
1/2	DI	4.5	4.5	1/2												
1/3	DI	3	6	1/3												
1/4	DI	2	6	1/4												
1/5	DI	2	8	1/5												
1/10	DI	1	9	1/10												
1/20	DI	3	3	1/2	1	9	1/20									
1/30	DI	3	6	1/3	1	9	1/30									
1/40	DI	1	3	1/4	1	9	1/40									
1/50	DI	1	4	1/5	1	9	1/50									
1/100	DI	1	9	1/10	1	9	1/100									
1/200	DI	3	3	1/2	1	9	1/20	1	9	1/200						
1/300	DI	3	6	1/3	1	9	1/30	1	9	1/300						
1/400	DI	1	3	1/4	1	9	1/40	1	9	1/400						
1/500	DI	1	4	1/5	1	9	1/50	1	9	1/500						
1/1000	DI	1	9	1/10	1	9	1/100	1	9	1/1000						
1/2000	DI	3	3	1/2	1	9	1/20	1	9	1/200	1	9	1/2000			
1/3000	DI	3	6	1/3	1	9	1/30	1	9	1/300	1	9	1/3000			
1/4000	DI	1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000			
1/10000	DI	1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000			
1/20000	DI	1	1	1/2	1	9	1/20	1	9	1/200	1	9	1/2000	1	9	1/20000
1/40000	DI	1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000	1	9	1/40000
1/100000	DI	1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000	1	9	1/100000

Special Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833053 **Method/Testcode:** 6010C/Al D

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2401787-01	Aluminum, Dissolved	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	30	100			2/21/24 15:58:00	N	II
KQ2401787-01	Aluminum, Total	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	30	100			2/21/24 15:58:00	N	II
KQ2401787-01	Arsenic, Dissolved	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/21/24 15:58:00	N	II
KQ2401787-01	Arsenic, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/21/24 15:58:00	N	II
KQ2401787-01	Cadmium, Dissolved	MB		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.4	5.0			2/21/24 15:58:00	N	II
KQ2401787-01	Cadmium, Total	MB		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.4	5.0			2/21/24 15:58:00	N	II
KQ2401787-01	Calcium, Dissolved	MB		Water	0.01 ppm	50 mL	1000 µg/L U	1	300	1000			2/21/24 15:58:00	N	II
KQ2401787-01	Calcium, Total	MB		Water	0.01 ppm	50 mL	1000 µg/L U	1	300	1000			2/21/24 15:58:00	N	II
KQ2401787-01	Chromium, Dissolved	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			2/21/24 15:58:00	N	II
KQ2401787-01	Chromium, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			2/21/24 15:58:00	N	II
KQ2401787-01	Copper, Dissolved	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	4	20			2/21/24 15:58:00	N	II
KQ2401787-01	Copper, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	4	20			2/21/24 15:58:00	N	II
KQ2401787-01	Iron, Dissolved	MB		Water	0.01 ppm	50 mL	100 µg/L U	1	70	100			2/21/24 15:58:00	N	II
KQ2401787-01	Iron, Total	MB		Water	0.01 ppm	50 mL	100 µg/L U	1	70	100			2/21/24 15:58:00	N	II
KQ2401787-01	Lead, Dissolved	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			2/21/24 15:58:00	N	II
KQ2401787-01	Lead, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			2/21/24 15:58:00	N	II
KQ2401787-01	Magnesium, Dissolved	MB		Water	0.00 ppm	50 mL	1000 µg/L U	1	30	1000			2/21/24 15:58:00	N	II
KQ2401787-01	Magnesium, Total	MB		Water	0.00 ppm	50 mL	1000 µg/L U	1	30	1000			2/21/24 15:58:00	N	II
KQ2401787-01	Manganese, Dissolved	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			2/21/24 15:58:00	N	II
KQ2401787-01	Manganese, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			2/21/24 15:58:00	N	II
KQ2401787-01	Nickel, Dissolved	MB		Water	0.00 ppm	50 mL	40 µg/L U	1	3	40			2/21/24 15:58:00	N	II
KQ2401787-01	Nickel, Total	MB		Water	0.00 ppm	50 mL	40 µg/L U	1	3	40			2/21/24 15:58:00	N	II
KQ2401787-01	Potassium, Dissolved	MB		Water	0.08 ppm	50 mL	2000 µg/L U	1	400	2000			2/21/24 15:58:00	N	II
KQ2401787-01	Potassium, Total	MB		Water	0.08 ppm	50 mL	2000 µg/L U	1	400	2000			2/21/24 15:58:00	N	II
KQ2401787-01	Sodium, Dissolved	MB		Water	0.07 ppm	50 mL	1000 µg/L U	1	300	1000			2/21/24 15:58:00	N	II
KQ2401787-01	Sodium, Total	MB		Water	0.07 ppm	50 mL	1000 µg/L U	1	300	1000			2/21/24 15:58:00	N	II
KQ2401787-05	Aluminum, Dissolved	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	30	100			2/21/24 16:01:00	N	II
KQ2401787-05	Arsenic, Dissolved	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/21/24 16:01:00	N	II
KQ2401787-05	Cadmium, Dissolved	MB		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.4	5.0			2/21/24 16:01:00	N	II
KQ2401787-05	Calcium, Dissolved	MB		Water	0.01 ppm	50 mL	1000 µg/L U	1	300	1000			2/21/24 16:01:00	N	II
KQ2401787-05	Chromium, Dissolved	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			2/21/24 16:01:00	N	II
KQ2401787-05	Copper, Dissolved	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	4	20			2/21/24 16:01:00	N	II
KQ2401787-05	Iron, Dissolved	MB		Water	0.01 ppm	50 mL	100 µg/L U	1	70	100			2/21/24 16:01:00	N	II
KQ2401787-05	Lead, Dissolved	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			2/21/24 16:01:00	N	II
KQ2401787-05	Magnesium, Dissolved	MB		Water	0.00 ppm	50 mL	1000 µg/L U	1	30	1000			2/21/24 16:01:00	N	II
KQ2401787-05	Manganese, Dissolved	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			2/21/24 16:01:00	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833053 **Method/Testcode:** 6010C/Ni D

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2401787-05	Nickel, Dissolved	MB		Water	0.00 ppm	50 mL	40 µg/L U	1	3	40			2/21/24 16:01:00	N	II
KQ2401787-05	Potassium, Dissolved	MB		Water	0.09 ppm	50 mL	2000 µg/L U	1	400	2000			2/21/24 16:01:00	N	II
KQ2401787-05	Sodium, Dissolved	MB		Water	0.11 ppm	50 mL	1000 µg/L U	1	300	1000			2/21/24 16:01:00	N	II
KQ2401787-02	Aluminum, Dissolved	LCS		Water	1.94 ppm	50 mL	1940 µg/L	1	30	100	97		2/21/24 16:04:00	N	II
KQ2401787-02	Aluminum, Total	LCS		Water	1.94 ppm	50 mL	1940 µg/L	1	30	100	97		2/21/24 16:04:00	N	II
KQ2401787-02	Arsenic, Dissolved	LCS		Water	0.04 ppm	50 mL	38.9 µg/L	1	6	10	97		2/21/24 16:04:00	N	II
KQ2401787-02	Arsenic, Total	LCS		Water	0.04 ppm	50 mL	38.9 µg/L	1	6	10	97		2/21/24 16:04:00	N	II
KQ2401787-02	Cadmium, Dissolved	LCS		Water	0.05 ppm	50 mL	51.4 µg/L	1	0.4	5.0	103		2/21/24 16:04:00	N	II
KQ2401787-02	Cadmium, Total	LCS		Water	0.05 ppm	50 mL	51.4 µg/L	1	0.4	5.0	103		2/21/24 16:04:00	N	II
KQ2401787-02	Calcium, Dissolved	LCS		Water	2.01 ppm	50 mL	2010 µg/L	1	300	1000	101		2/21/24 16:04:00	N	II
KQ2401787-02	Calcium, Total	LCS		Water	2.01 ppm	50 mL	2010 µg/L	1	300	1000	101		2/21/24 16:04:00	N	II
KQ2401787-02	Chromium, Dissolved	LCS		Water	0.20 ppm	50 mL	200 µg/L	1	2	10	100		2/21/24 16:04:00	N	II
KQ2401787-02	Chromium, Total	LCS		Water	0.20 ppm	50 mL	200 µg/L	1	2	10	100		2/21/24 16:04:00	N	II
KQ2401787-02	Copper, Dissolved	LCS		Water	0.25 ppm	50 mL	249 µg/L	1	4	20	100		2/21/24 16:04:00	N	II
KQ2401787-02	Copper, Total	LCS		Water	0.25 ppm	50 mL	249 µg/L	1	4	20	100		2/21/24 16:04:00	N	II
KQ2401787-02	Iron, Dissolved	LCS		Water	0.99 ppm	50 mL	994 µg/L	1	70	100	99		2/21/24 16:04:00	N	II
KQ2401787-02	Iron, Total	LCS		Water	0.99 ppm	50 mL	994 µg/L	1	70	100	99		2/21/24 16:04:00	N	II
KQ2401787-02	Lead, Dissolved	LCS		Water	0.51 ppm	50 mL	512 µg/L	1	4	50	102		2/21/24 16:04:00	N	II
KQ2401787-02	Lead, Total	LCS		Water	0.51 ppm	50 mL	512 µg/L	1	4	50	102		2/21/24 16:04:00	N	II
KQ2401787-02	Magnesium, Dissolved	LCS		Water	1.95 ppm	50 mL	1950 µg/L	1	30	1000	98		2/21/24 16:04:00	N	II
KQ2401787-02	Magnesium, Total	LCS		Water	1.95 ppm	50 mL	1950 µg/L	1	30	1000	98		2/21/24 16:04:00	N	II
KQ2401787-02	Manganese, Dissolved	LCS		Water	0.49 ppm	50 mL	491 µg/L	1	4	10	98		2/21/24 16:04:00	N	II
KQ2401787-02	Manganese, Total	LCS		Water	0.49 ppm	50 mL	491 µg/L	1	4	10	98		2/21/24 16:04:00	N	II
KQ2401787-02	Nickel, Dissolved	LCS		Water	0.52 ppm	50 mL	525 µg/L	1	3	40	105		2/21/24 16:04:00	N	II
KQ2401787-02	Nickel, Total	LCS		Water	0.52 ppm	50 mL	525 µg/L	1	3	40	105		2/21/24 16:04:00	N	II
KQ2401787-02	Potassium, Dissolved	LCS		Water	18.57 ppm	50 mL	18600 µg/L	1	400	2000	93		2/21/24 16:04:00	N	II
KQ2401787-02	Potassium, Total	LCS		Water	18.57 ppm	50 mL	18600 µg/L	1	400	2000	93		2/21/24 16:04:00	N	II
KQ2401787-02	Sodium, Dissolved	LCS		Water	19.26 ppm	50 mL	19300 µg/L	1	300	1000	96		2/21/24 16:04:00	N	II
KQ2401787-02	Sodium, Total	LCS		Water	19.26 ppm	50 mL	19300 µg/L	1	300	1000	96		2/21/24 16:04:00	N	II
K2401218-001	Aluminum, Total	N/A		Water	0.01 ppm	50 mL	0.10 mg/L U	1	0.03	0.10			2/21/24 16:07:00	N	II
K2401218-001	Arsenic, Total	N/A		Water	0.01 ppm	50 mL	0.010 mg/L U	1	0.006	0.010			2/21/24 16:07:00	N	II
K2401218-001	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0004	0.0050			2/21/24 16:07:00	N	II
K2401218-001	Calcium, Total	N/A		Water	137.29 ppm	50 mL	137 mg/L	1	0.3	1.0			2/21/24 16:07:00	N	II
K2401218-001	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			2/21/24 16:07:00	N	II
K2401218-001	Copper, Total	N/A		Water	0.02 ppm	50 mL	0.024 mg/L	1	0.004	0.020			2/21/24 16:07:00	N	II
K2401218-001	Iron, Total	N/A		Water	1.66 ppm	50 mL	1.66 mg/L	1	0.07	0.10			2/21/24 16:07:00	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833053 **Method/Testcode:** 6010C/Pb T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2401218-001	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			2/21/24 16:07:00	N	II
2401218-001	Magnesium, Total	N/A		Water	18.82 ppm	50 mL	18.8 mg/L	1	0.03	1.0			2/21/24 16:07:00	N	II
2401218-001	Nickel, Total	N/A		Water	0.02 ppm	50 mL	0.040 mg/L U	1	0.003	0.040			2/21/24 16:07:00	N	II
2401218-001	Potassium, Total	N/A		Water	25.29 ppm	50 mL	25.3 mg/L	1	0.4	2.0			2/21/24 16:07:00	N	II
2401218-001	Sodium, Total	N/A		Water	140.34 ppm	50 mL	140 mg/L	1	0.3	1.0			2/21/24 16:07:00	N	II
2401218-002	Aluminum, Total	N/A		Water	0.35 ppm	50 mL	0.35 mg/L	1	0.03	0.10			2/21/24 16:11:00	N	II
2401218-002	Arsenic, Total	N/A		Water	0.02 ppm	50 mL	0.021 mg/L	1	0.006	0.010			2/21/24 16:11:00	N	II
2401218-002	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0004	0.0050			2/21/24 16:11:00	N	II
2401218-002	Calcium, Total	N/A		Water	152.16 ppm	50 mL	152 mg/L	1	0.3	1.0			2/21/24 16:11:00	N	II
2401218-002	Chromium, Total	N/A		Water	0.07 ppm	50 mL	0.071 mg/L	1	0.002	0.010			2/21/24 16:11:00	N	II
2401218-002	Copper, Total	N/A		Water	0.43 ppm	50 mL	0.432 mg/L	1	0.004	0.020			2/21/24 16:11:00	N	II
2401218-002	Iron, Total	N/A		Water	12.60 ppm	50 mL	12.6 mg/L	1	0.07	0.10			2/21/24 16:11:00	N	II
2401218-002	Lead, Total	N/A		Water	0.03 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			2/21/24 16:11:00	N	II
2401218-002	Magnesium, Total	N/A		Water	50.32 ppm	50 mL	50.3 mg/L	1	0.03	1.0			2/21/24 16:11:00	N	II
2401218-002	Manganese, Total	N/A		Water	3.29 ppm	50 mL	3.29 mg/L	1	0.004	0.010			2/21/24 16:11:00	N	II
2401218-002	Nickel, Total	N/A		Water	0.07 ppm	50 mL	0.065 mg/L	1	0.003	0.040			2/21/24 16:11:00	N	II
2401218-003	Aluminum, Total	N/A		Water	0.16 ppm	50 mL	0.16 mg/L	1	0.03	0.10			2/21/24 16:14:00	N	II
2401218-003	Arsenic, Total	N/A		Water	0.02 ppm	50 mL	0.016 mg/L	1	0.006	0.010			2/21/24 16:14:00	N	II
2401218-003	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0004	0.0050			2/21/24 16:14:00	N	II
2401218-003	Calcium, Total	N/A		Water	230.15 ppm	50 mL	230 mg/L	1	0.3	1.0			2/21/24 16:14:00	N	II
2401218-003	Chromium, Total	N/A		Water	0.04 ppm	50 mL	0.044 mg/L	1	0.002	0.010			2/21/24 16:14:00	N	II
2401218-003	Copper, Total	N/A		Water	0.07 ppm	50 mL	0.066 mg/L	1	0.004	0.020			2/21/24 16:14:00	N	II
2401218-003	Iron, Total	N/A		Water	5.22 ppm	50 mL	5.22 mg/L	1	0.07	0.10			2/21/24 16:14:00	N	II
2401218-003	Lead, Total	N/A		Water	0.01 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			2/21/24 16:14:00	N	II
2401218-003	Magnesium, Total	N/A		Water	58.43 ppm	50 mL	58.4 mg/L	1	0.03	1.0			2/21/24 16:14:00	N	II
2401218-003	Manganese, Total	N/A		Water	4.18 ppm	50 mL	4.18 mg/L	1	0.004	0.010			2/21/24 16:14:00	N	II
2401218-003	Nickel, Total	N/A		Water	0.06 ppm	50 mL	0.064 mg/L	1	0.003	0.040			2/21/24 16:14:00	N	II
2401217-001	Aluminum, Total	N/A		Water	0.15 ppm	50 mL	0.15 mg/L	1	0.03	0.10			2/21/24 16:17:00	N	II
2401217-001	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.006	0.010			2/21/24 16:17:00	N	II
2401217-001	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0004	0.0050			2/21/24 16:17:00	N	II
2401217-001	Calcium, Total	N/A		Water	23.63 ppm	50 mL	23.6 mg/L	1	0.3	1.0			2/21/24 16:17:00	N	II
2401217-001	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			2/21/24 16:17:00	N	II
2401217-001	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.004	0.020			2/21/24 16:17:00	N	II
2401217-001	Iron, Total	N/A		Water	0.23 ppm	50 mL	0.23 mg/L	1	0.07	0.10			2/21/24 16:17:00	N	II
2401217-001	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			2/21/24 16:17:00	N	II
2401217-001	Magnesium, Total	N/A		Water	6.74 ppm	50 mL	6.7 mg/L	1	0.03	1.0			2/21/24 16:17:00	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833053 **Method/Testcode:** 6010C/Mn T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2401217-001	Manganese, Total	N/A		Water	0.01 ppm	50 mL	0.010 mg/L U	1	0.004	0.010			2/21/24 16:17:00	N	II
2401217-001	Nickel, Total	N/A		Water	0.00 ppm	50 mL	0.040 mg/L U	1	0.003	0.040			2/21/24 16:17:00	N	II
2401217-001	Potassium, Total	N/A		Water	4.01 ppm	50 mL	4.0 mg/L	1	0.4	2.0			2/21/24 16:17:00	N	II
2401217-001	Sodium, Total	N/A		Water	92.18 ppm	50 mL	92.2 mg/L	1	0.3	1.0			2/21/24 16:17:00	N	II
2401217-002	Aluminum, Total	N/A		Water	0.17 ppm	50 mL	0.17 mg/L	1	0.03	0.10			2/21/24 16:20:00	N	II
2401217-002	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.006	0.010			2/21/24 16:20:00	N	II
2401217-002	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0004	0.0050			2/21/24 16:20:00	N	II
2401217-002	Calcium, Total	N/A		Water	6.76 ppm	50 mL	6.8 mg/L	1	0.3	1.0			2/21/24 16:20:00	N	II
2401217-002	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			2/21/24 16:20:00	N	II
2401217-002	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.004	0.020			2/21/24 16:20:00	N	II
2401217-002	Iron, Total	N/A		Water	0.22 ppm	50 mL	0.22 mg/L	1	0.07	0.10			2/21/24 16:20:00	N	II
2401217-002	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			2/21/24 16:20:00	N	II
2401217-002	Magnesium, Total	N/A		Water	1.89 ppm	50 mL	1.9 mg/L	1	0.03	1.0			2/21/24 16:20:00	N	II
2401217-002	Manganese, Total	N/A		Water	0.01 ppm	50 mL	0.014 mg/L	1	0.004	0.010			2/21/24 16:20:00	N	II
2401217-002	Nickel, Total	N/A		Water	0.00 ppm	50 mL	0.040 mg/L U	1	0.003	0.040			2/21/24 16:20:00	N	II
2401217-002	Potassium, Total	N/A		Water	0.93 ppm	50 mL	2.0 mg/L U	1	0.4	2.0			2/21/24 16:20:00	N	II
2401217-002	Sodium, Total	N/A		Water	4.54 ppm	50 mL	4.5 mg/L	1	0.3	1.0			2/21/24 16:20:00	N	II
2401217-003	Aluminum, Total	N/A		Water	0.08 ppm	50 mL	0.10 mg/L U	1	0.03	0.10			2/21/24 16:24:00	N	II
2401217-003	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.006	0.010			2/21/24 16:24:00	N	II
2401217-003	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0004	0.0050			2/21/24 16:24:00	N	II
2401217-003	Calcium, Total	N/A		Water	6.95 ppm	50 mL	7.0 mg/L	1	0.3	1.0			2/21/24 16:24:00	N	II
2401217-003	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			2/21/24 16:24:00	N	II
2401217-003	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.004	0.020			2/21/24 16:24:00	N	II
2401217-003	Iron, Total	N/A		Water	0.10 ppm	50 mL	0.10 mg/L U	1	0.07	0.10			2/21/24 16:24:00	N	II
2401217-003	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			2/21/24 16:24:00	N	II
2401217-003	Magnesium, Total	N/A		Water	2.14 ppm	50 mL	2.1 mg/L	1	0.03	1.0			2/21/24 16:24:00	N	II
2401217-003	Manganese, Total	N/A		Water	0.01 ppm	50 mL	0.010 mg/L U	1	0.004	0.010			2/21/24 16:24:00	N	II
2401217-003	Nickel, Total	N/A		Water	0.00 ppm	50 mL	0.040 mg/L U	1	0.003	0.040			2/21/24 16:24:00	N	II
2401217-003	Potassium, Total	N/A		Water	0.89 ppm	50 mL	2.0 mg/L U	1	0.4	2.0			2/21/24 16:24:00	N	II
2401217-003	Sodium, Total	N/A		Water	5.45 ppm	50 mL	5.4 mg/L	1	0.3	1.0			2/21/24 16:24:00	N	II
2401217-004	Aluminum, Total	N/A		Water	0.02 ppm	50 mL	0.10 mg/L U	1	0.03	0.10			2/21/24 16:27:00	Y	II
2401217-004	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.006	0.010			2/21/24 16:27:00	Y	II
2401217-004	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0004	0.0050			2/21/24 16:27:00	Y	II
2401217-004	Calcium, Total	N/A		Water	12.09 ppm	50 mL	12.1 mg/L	1	0.3	1.0			2/21/24 16:27:00	Y	II
2401217-004	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			2/21/24 16:27:00	Y	II
2401217-004	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.004	0.020			2/21/24 16:27:00	Y	II

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Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833053 **Method/Testcode:** 6010C/Fe T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R2401217-004	Iron, Total	N/A		Water	0.12 ppm	50 mL	0.12 mg/L	1	0.07	0.10			2/21/24 16:27:00	Y	II
R2401217-004	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			2/21/24 16:27:00	Y	II
R2401217-004	Magnesium, Total	N/A		Water	3.39 ppm	50 mL	3.4 mg/L	1	0.03	1.0			2/21/24 16:27:00	Y	II
R2401217-004	Manganese, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.004	0.010			2/21/24 16:27:00	Y	II
R2401217-004	Nickel, Total	N/A		Water	0.00 ppm	50 mL	0.040 mg/L U	1	0.003	0.040			2/21/24 16:27:00	Y	II
R2401217-004	Potassium, Total	N/A		Water	3.13 ppm	50 mL	3.1 mg/L	1	0.4	2.0			2/21/24 16:27:00	Y	II
R2401217-004	Sodium, Total	N/A		Water	16.32 ppm	50 mL	16.3 mg/L	1	0.3	1.0			2/21/24 16:27:00	Y	II
RQ2401787-03	Aluminum, Total	MS	R2401217-004	Water	1.97 ppm	50 mL	1970 µg/L	1	30	100	98		2/21/24 16:36:00	N	II
RQ2401787-03	Arsenic, Total	MS	R2401217-004	Water	0.04 ppm	50 mL	39 µg/L	1	6	10	96		2/21/24 16:36:00	N	II
RQ2401787-03	Cadmium, Total	MS	R2401217-004	Water	0.05 ppm	50 mL	51.0 µg/L	1	0.4	5.0	102		2/21/24 16:36:00	N	II
RQ2401787-03	Calcium, Total	MS	R2401217-004	Water	14.09 ppm	50 mL	14100 µg/L	1	300	1000	100		2/21/24 16:36:00	N	II
RQ2401787-03	Chromium, Total	MS	R2401217-004	Water	0.20 ppm	50 mL	201 µg/L	1	2	10	100		2/21/24 16:36:00	N	II
RQ2401787-03	Copper, Total	MS	R2401217-004	Water	0.25 ppm	50 mL	251 µg/L	1	4	20	100		2/21/24 16:36:00	N	II
RQ2401787-03	Iron, Total	MS	R2401217-004	Water	1.16 ppm	50 mL	1160 µg/L	1	70	100	104		2/21/24 16:36:00	N	II
RQ2401787-03	Lead, Total	MS	R2401217-004	Water	0.51 ppm	50 mL	505 µg/L	1	4	50	101		2/21/24 16:36:00	N	II
RQ2401787-03	Magnesium, Total	MS	R2401217-004	Water	5.36 ppm	50 mL	5400 µg/L	1	30	1000	98		2/21/24 16:36:00	N	II
RQ2401787-03	Manganese, Total	MS	R2401217-004	Water	0.50 ppm	50 mL	497 µg/L	1	4	10	99		2/21/24 16:36:00	N	II
RQ2401787-03	Nickel, Total	MS	R2401217-004	Water	0.52 ppm	50 mL	523 µg/L	1	3	40	105		2/21/24 16:36:00	N	II
RQ2401787-03	Potassium, Total	MS	R2401217-004	Water	21.94 ppm	50 mL	21900 µg/L	1	400	2000	94		2/21/24 16:36:00	N	II
RQ2401787-03	Sodium, Total	MS	R2401217-004	Water	35.17 ppm	50 mL	35200 µg/L	1	300	1000	94		2/21/24 16:36:00	N	II
RQ2401787-04	Aluminum, Total	DMS	R2401217-004	Water	1.95 ppm	50 mL	1950 µg/L	1	30	100	98	<1	2/21/24 16:40:00	N	II
RQ2401787-04	Arsenic, Total	DMS	R2401217-004	Water	0.04 ppm	50 mL	39 µg/L	1	6	10	98	2	2/21/24 16:40:00	N	II
RQ2401787-04	Cadmium, Total	DMS	R2401217-004	Water	0.05 ppm	50 mL	50.9 µg/L	1	0.4	5.0	102	<1	2/21/24 16:40:00	N	II
RQ2401787-04	Calcium, Total	DMS	R2401217-004	Water	14.07 ppm	50 mL	14100 µg/L	1	300	1000	99	<1	2/21/24 16:40:00	N	II
RQ2401787-04	Chromium, Total	DMS	R2401217-004	Water	0.20 ppm	50 mL	200 µg/L	1	2	10	100	<1	2/21/24 16:40:00	N	II
RQ2401787-04	Copper, Total	DMS	R2401217-004	Water	0.25 ppm	50 mL	251 µg/L	1	4	20	100	<1	2/21/24 16:40:00	N	II
RQ2401787-04	Iron, Total	DMS	R2401217-004	Water	1.09 ppm	50 mL	1090 µg/L	1	70	100	97	6	2/21/24 16:40:00	N	II
RQ2401787-04	Lead, Total	DMS	R2401217-004	Water	0.50 ppm	50 mL	503 µg/L	1	4	50	101	<1	2/21/24 16:40:00	N	II
RQ2401787-04	Magnesium, Total	DMS	R2401217-004	Water	5.35 ppm	50 mL	5300 µg/L	1	30	1000	98	<1	2/21/24 16:40:00	N	II
RQ2401787-04	Manganese, Total	DMS	R2401217-004	Water	0.50 ppm	50 mL	495 µg/L	1	4	10	99	<1	2/21/24 16:40:00	N	II
RQ2401787-04	Nickel, Total	DMS	R2401217-004	Water	0.52 ppm	50 mL	521 µg/L	1	3	40	104	<1	2/21/24 16:40:00	N	II
RQ2401787-04	Potassium, Total	DMS	R2401217-004	Water	21.87 ppm	50 mL	21900 µg/L	1	400	2000	94	<1	2/21/24 16:40:00	N	II
RQ2401787-04	Sodium, Total	DMS	R2401217-004	Water	35.18 ppm	50 mL	35200 µg/L	1	300	1000	94	<1	2/21/24 16:40:00	N	II
R2401217-005	Aluminum, Total	N/A		Water	10.92 ppm	50 mL	10.9 mg/L	1	0.03	0.10			2/21/24 16:49:00	N	II
R2401217-005	Arsenic, Total	N/A		Water	0.01 ppm	50 mL	0.010 mg/L U	1	0.006	0.010			2/21/24 16:49:00	N	II
R2401217-005	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0004	0.0050			2/21/24 16:49:00	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833053 **Method/Testcode:** 6010C/Ca T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2401217-005	Calcium, Total	N/A		Water	27.74 ppm	50 mL	27.7 mg/L	1	0.3	1.0			2/21/24 16:49:00	N	II
2401217-005	Chromium, Total	N/A		Water	0.01 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			2/21/24 16:49:00	N	II
2401217-005	Copper, Total	N/A		Water	0.01 ppm	50 mL	0.020 mg/L U	1	0.004	0.020			2/21/24 16:49:00	N	II
2401217-005	Iron, Total	N/A		Water	9.44 ppm	50 mL	9.44 mg/L	1	0.07	0.10			2/21/24 16:49:00	N	II
2401217-005	Lead, Total	N/A		Water	0.01 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			2/21/24 16:49:00	N	II
2401217-005	Magnesium, Total	N/A		Water	11.72 ppm	50 mL	11.7 mg/L	1	0.03	1.0			2/21/24 16:49:00	N	II
2401217-005	Manganese, Total	N/A		Water	0.29 ppm	50 mL	0.293 mg/L	1	0.004	0.010			2/21/24 16:49:00	N	II
2401217-005	Nickel, Total	N/A		Water	0.00 ppm	50 mL	0.040 mg/L U	1	0.003	0.040			2/21/24 16:49:00	N	II
2401217-005	Potassium, Total	N/A		Water	4.56 ppm	50 mL	4.6 mg/L	1	0.4	2.0			2/21/24 16:49:00	N	II
2401217-005	Sodium, Total	N/A		Water	21.30 ppm	50 mL	21.3 mg/L	1	0.3	1.0			2/21/24 16:49:00	N	II
2401217-006	Aluminum, Total	N/A		Water	0.03 ppm	50 mL	0.10 mg/L U	1	0.03	0.10			2/21/24 16:53:00	N	II
2401217-006	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.006	0.010			2/21/24 16:53:00	N	II
2401217-006	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0004	0.0050			2/21/24 16:53:00	N	II
2401217-006	Calcium, Total	N/A		Water	14.24 ppm	50 mL	14.2 mg/L	1	0.3	1.0			2/21/24 16:53:00	N	II
2401217-006	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			2/21/24 16:53:00	N	II
2401217-006	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.004	0.020			2/21/24 16:53:00	N	II
2401217-006	Iron, Total	N/A		Water	0.06 ppm	50 mL	0.10 mg/L U	1	0.07	0.10			2/21/24 16:53:00	N	II
2401217-006	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			2/21/24 16:53:00	N	II
2401217-006	Magnesium, Total	N/A		Water	4.13 ppm	50 mL	4.1 mg/L	1	0.03	1.0			2/21/24 16:53:00	N	II
2401217-006	Manganese, Total	N/A		Water	0.11 ppm	50 mL	0.108 mg/L	1	0.004	0.010			2/21/24 16:53:00	N	II
2401217-006	Nickel, Total	N/A		Water	0.00 ppm	50 mL	0.040 mg/L U	1	0.003	0.040			2/21/24 16:53:00	N	II
2401217-006	Potassium, Total	N/A		Water	1.75 ppm	50 mL	2.0 mg/L U	1	0.4	2.0			2/21/24 16:53:00	N	II
2401217-006	Sodium, Total	N/A		Water	24.71 ppm	50 mL	24.7 mg/L	1	0.3	1.0			2/21/24 16:53:00	N	II
2401217-007	Aluminum, Total	N/A		Water	2.29 ppm	50 mL	2.29 mg/L	1	0.03	0.10			2/21/24 16:56:00	N	II
2401217-007	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.006	0.010			2/21/24 16:56:00	N	II
2401217-007	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0004	0.0050			2/21/24 16:56:00	N	II
2401217-007	Calcium, Total	N/A		Water	38.94 ppm	50 mL	38.9 mg/L	1	0.3	1.0			2/21/24 16:56:00	N	II
2401217-007	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			2/21/24 16:56:00	N	II
2401217-007	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.004	0.020			2/21/24 16:56:00	N	II
2401217-007	Iron, Total	N/A		Water	2.52 ppm	50 mL	2.52 mg/L	1	0.07	0.10			2/21/24 16:56:00	N	II
2401217-007	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			2/21/24 16:56:00	N	II
2401217-007	Magnesium, Total	N/A		Water	12.41 ppm	50 mL	12.4 mg/L	1	0.03	1.0			2/21/24 16:56:00	N	II
2401217-007	Manganese, Total	N/A		Water	1.34 ppm	50 mL	1.34 mg/L	1	0.004	0.010			2/21/24 16:56:00	N	II
2401217-007	Nickel, Total	N/A		Water	0.00 ppm	50 mL	0.040 mg/L U	1	0.003	0.040			2/21/24 16:56:00	N	II
2401217-007	Potassium, Total	N/A		Water	2.38 ppm	50 mL	2.4 mg/L	1	0.4	2.0			2/21/24 16:56:00	N	II
2401217-007	Sodium, Total	N/A		Water	46.44 ppm	50 mL	46.4 mg/L	1	0.3	1.0			2/21/24 16:56:00	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833053 **Method/Testcode:** 6010C/Al T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2401217-008	Aluminum, Total	N/A		Water	0.00 ppm	50 mL	0.10 mg/L U	1	0.03	0.10			2/21/24 16:59:00	N	II
2401217-008	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.006	0.010			2/21/24 16:59:00	N	II
2401217-008	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0004	0.0050			2/21/24 16:59:00	N	II
2401217-008	Calcium, Total	N/A		Water	0.01 ppm	50 mL	1.0 mg/L U	1	0.3	1.0			2/21/24 16:59:00	N	II
2401217-008	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			2/21/24 16:59:00	N	II
2401217-008	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.004	0.020			2/21/24 16:59:00	N	II
2401217-008	Iron, Total	N/A		Water	0.01 ppm	50 mL	0.10 mg/L U	1	0.07	0.10			2/21/24 16:59:00	N	II
2401217-008	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			2/21/24 16:59:00	N	II
2401217-008	Magnesium, Total	N/A		Water	0.00 ppm	50 mL	1.0 mg/L U	1	0.03	1.0			2/21/24 16:59:00	N	II
2401217-008	Manganese, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.004	0.010			2/21/24 16:59:00	N	II
2401217-008	Nickel, Total	N/A		Water	0.00 ppm	50 mL	0.040 mg/L U	1	0.003	0.040			2/21/24 16:59:00	N	II
2401217-008	Potassium, Total	N/A		Water	0.09 ppm	50 mL	2.0 mg/L U	1	0.4	2.0			2/21/24 16:59:00	N	II
2401217-008	Sodium, Total	N/A		Water	0.09 ppm	50 mL	1.0 mg/L U	1	0.3	1.0			2/21/24 16:59:00	N	II
2401217-009	Aluminum, Total	N/A		Water	0.01 ppm	50 mL	0.10 mg/L U	1	0.03	0.10			2/21/24 17:02:00	N	II
2401217-009	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.006	0.010			2/21/24 17:02:00	N	II
2401217-009	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0004	0.0050			2/21/24 17:02:00	N	II
2401217-009	Calcium, Total	N/A		Water	30.87 ppm	50 mL	30.9 mg/L	1	0.3	1.0			2/21/24 17:02:00	N	II
2401217-009	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			2/21/24 17:02:00	N	II
2401217-009	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.004	0.020			2/21/24 17:02:00	N	II
2401217-009	Iron, Total	N/A		Water	0.02 ppm	50 mL	0.10 mg/L U	1	0.07	0.10			2/21/24 17:02:00	N	II
2401217-009	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			2/21/24 17:02:00	N	II
2401217-009	Magnesium, Total	N/A		Water	9.35 ppm	50 mL	9.3 mg/L	1	0.03	1.0			2/21/24 17:02:00	N	II
2401217-009	Manganese, Total	N/A		Water	0.14 ppm	50 mL	0.143 mg/L	1	0.004	0.010			2/21/24 17:02:00	N	II
2401217-009	Nickel, Total	N/A		Water	0.00 ppm	50 mL	0.040 mg/L U	1	0.003	0.040			2/21/24 17:02:00	N	II
2401217-009	Potassium, Total	N/A		Water	3.12 ppm	50 mL	3.1 mg/L	1	0.4	2.0			2/21/24 17:02:00	N	II
2401217-009	Sodium, Total	N/A		Water	87.07 ppm	50 mL	87.1 mg/L	1	0.3	1.0			2/21/24 17:02:00	N	II
2401217-010	Aluminum, Total	N/A		Water	0.12 ppm	50 mL	0.12 mg/L	1	0.03	0.10			2/21/24 17:06:00	N	II
2401217-010	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.006	0.010			2/21/24 17:06:00	N	II
2401217-010	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0004	0.0050			2/21/24 17:06:00	N	II
2401217-010	Calcium, Total	N/A		Water	29.30 ppm	50 mL	29.3 mg/L	1	0.3	1.0			2/21/24 17:06:00	N	II
2401217-010	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			2/21/24 17:06:00	N	II
2401217-010	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.004	0.020			2/21/24 17:06:00	N	II
2401217-010	Iron, Total	N/A		Water	0.26 ppm	50 mL	0.26 mg/L	1	0.07	0.10			2/21/24 17:06:00	N	II
2401217-010	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			2/21/24 17:06:00	N	II
2401217-010	Magnesium, Total	N/A		Water	8.91 ppm	50 mL	8.9 mg/L	1	0.03	1.0			2/21/24 17:06:00	N	II
2401217-010	Manganese, Total	N/A		Water	10.43 ppm	50 mL	10.4 mg/L	1	0.004	0.010			2/21/24 17:06:00	N	II

CK 2/22/24

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833053 **Method/Testcode:** 6010C/Ni T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2401217-010	Nickel, Total	N/A		Water	0.01 ppm	50 mL	0.040 mg/L U	1	0.003	0.040			2/21/24 17:06:00	N	II
2401217-010	Potassium, Total	N/A		Water	1.70 ppm	50 mL	2.0 mg/L U	1	0.4	2.0			2/21/24 17:06:00	N	II
2401217-010	Sodium, Total	N/A		Water	49.09 ppm	50 mL	49.1 mg/L	1	0.3	1.0			2/21/24 17:06:00	N	II
2401217-011	Aluminum, Total	N/A		Water	0.99 ppm	50 mL	0.99 mg/L	1	0.03	0.10			2/21/24 17:15:00	N	II
2401217-011	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.006	0.010			2/21/24 17:15:00	N	II
2401217-011	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0004	0.0050			2/21/24 17:15:00	N	II
2401217-011	Calcium, Total	N/A		Water	32.27 ppm	50 mL	32.3 mg/L	1	0.3	1.0			2/21/24 17:15:00	N	II
2401217-011	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			2/21/24 17:15:00	N	II
2401217-011	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.004	0.020			2/21/24 17:15:00	N	II
2401217-011	Iron, Total	N/A		Water	1.14 ppm	50 mL	1.14 mg/L	1	0.07	0.10			2/21/24 17:15:00	N	II
2401217-011	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			2/21/24 17:15:00	N	II
2401217-011	Magnesium, Total	N/A		Water	8.05 ppm	50 mL	8.0 mg/L	1	0.03	1.0			2/21/24 17:15:00	N	II
2401217-011	Nickel, Total	N/A		Water	0.00 ppm	50 mL	0.040 mg/L U	1	0.003	0.040			2/21/24 17:15:00	N	II
2401217-011	Potassium, Total	N/A		Water	3.17 ppm	50 mL	3.2 mg/L	1	0.4	2.0			2/21/24 17:15:00	N	II
2401217-011	Sodium, Total	N/A		Water	49.42 ppm	50 mL	49.4 mg/L	1	0.3	1.0			2/21/24 17:15:00	N	II
2401217-012	Aluminum, Total	N/A		Water	0.03 ppm	50 mL	0.10 mg/L U	1	0.03	0.10			2/21/24 17:19:00	N	II
2401217-012	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.006	0.010			2/21/24 17:19:00	N	II
2401217-012	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0004	0.0050			2/21/24 17:19:00	N	II
2401217-012	Calcium, Total	N/A		Water	25.57 ppm	50 mL	25.6 mg/L	1	0.3	1.0			2/21/24 17:19:00	N	II
2401217-012	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			2/21/24 17:19:00	N	II
2401217-012	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.004	0.020			2/21/24 17:19:00	N	II
2401217-012	Iron, Total	N/A		Water	0.04 ppm	50 mL	0.10 mg/L U	1	0.07	0.10			2/21/24 17:19:00	N	II
2401217-012	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			2/21/24 17:19:00	N	II
2401217-012	Magnesium, Total	N/A		Water	7.80 ppm	50 mL	7.8 mg/L	1	0.03	1.0			2/21/24 17:19:00	N	II
2401217-012	Manganese, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.004	0.010			2/21/24 17:19:00	N	II
2401217-012	Nickel, Total	N/A		Water	0.00 ppm	50 mL	0.040 mg/L U	1	0.003	0.040			2/21/24 17:19:00	N	II
2401217-012	Potassium, Total	N/A		Water	1.02 ppm	50 mL	2.0 mg/L U	1	0.4	2.0			2/21/24 17:19:00	N	II
2401217-012	Sodium, Total	N/A		Water	20.29 ppm	50 mL	20.3 mg/L	1	0.3	1.0			2/21/24 17:19:00	N	II
2401217-013	Aluminum, Total	N/A		Water	2.53 ppm	50 mL	2.53 mg/L	1	0.03	0.10			2/21/24 17:22:00	N	II
2401217-013	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.006	0.010			2/21/24 17:22:00	N	II
2401217-013	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0004	0.0050			2/21/24 17:22:00	N	II
2401217-013	Calcium, Total	N/A		Water	24.27 ppm	50 mL	24.3 mg/L	1	0.3	1.0			2/21/24 17:22:00	N	II
2401217-013	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			2/21/24 17:22:00	N	II
2401217-013	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.004	0.020			2/21/24 17:22:00	N	II
2401217-013	Iron, Total	N/A		Water	3.51 ppm	50 mL	3.51 mg/L	1	0.07	0.10			2/21/24 17:22:00	N	II
2401217-013	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			2/21/24 17:22:00	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833053 **Method/Testcode:** 6010C/Mg T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2401217-013	Magnesium, Total	N/A		Water	3.37 ppm	50 mL	3.4 mg/L	1	0.03	1.0			2/21/24 17:22:00	N	II
2401217-013	Manganese, Total	N/A		Water	2.37 ppm	50 mL	2.37 mg/L	1	0.004	0.010			2/21/24 17:22:00	N	II
2401217-013	Nickel, Total	N/A		Water	0.00 ppm	50 mL	0.040 mg/L U	1	0.003	0.040			2/21/24 17:22:00	N	II
2401217-013	Potassium, Total	N/A		Water	1.86 ppm	50 mL	2.0 mg/L U	1	0.4	2.0			2/21/24 17:22:00	N	II
2401217-013	Sodium, Total	N/A		Water	2.58 ppm	50 mL	2.6 mg/L	1	0.3	1.0			2/21/24 17:22:00	N	II
2401217-014	Aluminum, Total	N/A		Water	0.04 ppm	50 mL	0.10 mg/L U	1	0.03	0.10			2/21/24 17:25:00	N	II
2401217-014	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.006	0.010			2/21/24 17:25:00	N	II
2401217-014	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0004	0.0050			2/21/24 17:25:00	N	II
2401217-014	Calcium, Total	N/A		Water	12.60 ppm	50 mL	12.6 mg/L	1	0.3	1.0			2/21/24 17:25:00	N	II
2401217-014	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			2/21/24 17:25:00	N	II
2401217-014	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.004	0.020			2/21/24 17:25:00	N	II
2401217-014	Iron, Total	N/A		Water	0.09 ppm	50 mL	0.10 mg/L U	1	0.07	0.10			2/21/24 17:25:00	N	II
2401217-014	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			2/21/24 17:25:00	N	II
2401217-014	Magnesium, Total	N/A		Water	5.51 ppm	50 mL	5.5 mg/L	1	0.03	1.0			2/21/24 17:25:00	N	II
2401217-014	Manganese, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.004	0.010			2/21/24 17:25:00	N	II
2401217-014	Nickel, Total	N/A		Water	0.00 ppm	50 mL	0.040 mg/L U	1	0.003	0.040			2/21/24 17:25:00	N	II
2401217-014	Potassium, Total	N/A		Water	0.54 ppm	50 mL	2.0 mg/L U	1	0.4	2.0			2/21/24 17:25:00	N	II
2401217-014	Sodium, Total	N/A		Water	5.51 ppm	50 mL	5.5 mg/L	1	0.3	1.0			2/21/24 17:25:00	N	II
2401217-015	Aluminum, Total	N/A		Water	0.03 ppm	50 mL	0.10 mg/L U	1	0.03	0.10			2/21/24 17:28:00	N	II
2401217-015	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.006	0.010			2/21/24 17:28:00	N	II
2401217-015	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0004	0.0050			2/21/24 17:28:00	N	II
2401217-015	Calcium, Total	N/A		Water	12.61 ppm	50 mL	12.6 mg/L	1	0.3	1.0			2/21/24 17:28:00	N	II
2401217-015	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			2/21/24 17:28:00	N	II
2401217-015	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.004	0.020			2/21/24 17:28:00	N	II
2401217-015	Iron, Total	N/A		Water	0.10 ppm	50 mL	0.10 mg/L	1	0.07	0.10			2/21/24 17:28:00	N	II
2401217-015	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			2/21/24 17:28:00	N	II
2401217-015	Magnesium, Total	N/A		Water	5.52 ppm	50 mL	5.5 mg/L	1	0.03	1.0			2/21/24 17:28:00	N	II
2401217-015	Manganese, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.004	0.010			2/21/24 17:28:00	N	II
2401217-015	Nickel, Total	N/A		Water	0.00 ppm	50 mL	0.040 mg/L U	1	0.003	0.040			2/21/24 17:28:00	N	II
2401217-015	Potassium, Total	N/A		Water	0.55 ppm	50 mL	2.0 mg/L U	1	0.4	2.0			2/21/24 17:28:00	N	II
2401217-015	Sodium, Total	N/A		Water	5.52 ppm	50 mL	5.5 mg/L	1	0.3	1.0			2/21/24 17:28:00	N	II
2401217-016	Aluminum, Total	N/A		Water	0.02 ppm	50 mL	0.10 mg/L U	1	0.03	0.10			2/21/24 17:31:00	N	II
2401217-016	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.006	0.010			2/21/24 17:31:00	N	II
2401217-016	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0004	0.0050			2/21/24 17:31:00	N	II
2401217-016	Calcium, Total	N/A		Water	9.54 ppm	50 mL	9.5 mg/L	1	0.3	1.0			2/21/24 17:31:00	N	II
2401217-016	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			2/21/24 17:31:00	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833053 **Method/Testcode:** 6010C/Cu T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2401217-016	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.004	0.020			2/21/24 17:31:00	N	II
2401217-016	Iron, Total	N/A		Water	0.02 ppm	50 mL	0.10 mg/L U	1	0.07	0.10			2/21/24 17:31:00	N	II
2401217-016	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			2/21/24 17:31:00	N	II
2401217-016	Magnesium, Total	N/A		Water	3.02 ppm	50 mL	3.0 mg/L	1	0.03	1.0			2/21/24 17:31:00	N	II
2401217-016	Manganese, Total	N/A		Water	0.02 ppm	50 mL	0.016 mg/L	1	0.004	0.010			2/21/24 17:31:00	N	II
2401217-016	Nickel, Total	N/A		Water	0.00 ppm	50 mL	0.040 mg/L U	1	0.003	0.040			2/21/24 17:31:00	N	II
2401217-016	Potassium, Total	N/A		Water	0.78 ppm	50 mL	2.0 mg/L U	1	0.4	2.0			2/21/24 17:31:00	N	II
2401217-016	Sodium, Total	N/A		Water	10.64 ppm	50 mL	10.6 mg/L	1	0.3	1.0			2/21/24 17:31:00	N	II
2401217-017	Aluminum, Dissolved	N/A		Water	0.00 ppm	50 mL	100 µg/L U	1	30	100			2/21/24 17:35:00	N	II
2401217-017	Arsenic, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/21/24 17:35:00	N	II
2401217-017	Cadmium, Dissolved	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.4	5.0			2/21/24 17:35:00	N	II
2401217-017	Calcium, Dissolved	N/A		Water	24.98 ppm	50 mL	25000 µg/L	1	300	1000			2/21/24 17:35:00	N	II
2401217-017	Chromium, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			2/21/24 17:35:00	N	II
2401217-017	Copper, Dissolved	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	4	20			2/21/24 17:35:00	N	II
2401217-017	Iron, Dissolved	N/A		Water	0.01 ppm	50 mL	100 µg/L U	1	70	100			2/21/24 17:35:00	N	II
2401217-017	Lead, Dissolved	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			2/21/24 17:35:00	N	II
2401217-017	Magnesium, Dissolved	N/A		Water	3.15 ppm	50 mL	3200 µg/L	1	30	1000			2/21/24 17:35:00	N	II
2401217-017	Manganese, Dissolved	N/A		Water	2.33 ppm	50 mL	2330 µg/L	1	4	10			2/21/24 17:35:00	N	II
2401217-017	Nickel, Dissolved	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	3	40			2/21/24 17:35:00	N	II
2401217-017	Potassium, Dissolved	N/A		Water	1.06 ppm	50 mL	2000 µg/L U	1	400	2000			2/21/24 17:35:00	N	II
2401217-017	Sodium, Dissolved	N/A		Water	2.92 ppm	50 mL	2900 µg/L	1	300	1000			2/21/24 17:35:00	N	II
2401218-001	Manganese, Total	N/A		Water	0.68 ppm	50 mL	13.6 mg/L	20	0.08	0.20			2/21/24 17:38:00	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833054 **Method/Testcode:** 6010C/Al T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2401788-01	Aluminum, Total	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	30	100			2/21/24 18:10:00	N	II
KQ2401788-01	Arsenic, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/21/24 18:10:00	N	II
KQ2401788-01	Barium, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	3	20			2/21/24 18:10:00	N	II
KQ2401788-01	Beryllium, Total	MB		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.2	3.0			2/21/24 18:10:00	N	II
KQ2401788-01	Boron, Total	MB		Water	0.00 ppm	50 mL	200 µg/L U	1	20	200			2/21/24 18:10:00	N	II
KQ2401788-01	Cadmium, Total	MB		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.4	5.0			2/21/24 18:10:00	N	II
KQ2401788-01	Calcium, Dissolved	MB		Water	0.00 ppm	50 mL	1000 µg/L U	1	300	1000			2/21/24 18:10:00	N	II
KQ2401788-01	Calcium, Total	MB		Water	0.00 ppm	50 mL	1000 µg/L U	1	300	1000			2/21/24 18:10:00	N	II
KQ2401788-01	Chromium, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			2/21/24 18:10:00	N	II
KQ2401788-01	Cobalt, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	0.9	50			2/21/24 18:10:00	N	II
KQ2401788-01	Copper, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	4	20			2/21/24 18:10:00	N	II
KQ2401788-01	Iron, Total	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	70	100			2/21/24 18:10:00	N	II
KQ2401788-01	Lead, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			2/21/24 18:10:00	N	II
KQ2401788-01	Magnesium, Total	MB		Water	0.00 ppm	50 mL	1000 µg/L U	1	30	1000			2/21/24 18:10:00	N	II
KQ2401788-01	Manganese, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			2/21/24 18:10:00	N	II
KQ2401788-01	Molybdenum, Total	MB		Water	0.00 ppm	50 mL	25 µg/L U	1	3	25			2/21/24 18:10:00	N	II
KQ2401788-01	Nickel, Total	MB		Water	0.00 ppm	50 mL	40 µg/L U	1	3	40			2/21/24 18:10:00	N	II
KQ2401788-01	Potassium, Total	MB		Water	0.04 ppm	50 mL	2000 µg/L U	1	400	2000			2/21/24 18:10:00	N	II
KQ2401788-01	Selenium, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	7	10			2/21/24 18:10:00	N	II
KQ2401788-01	Silver, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	0.6	10			2/21/24 18:10:00	N	II
KQ2401788-01	Sodium, Total	MB		Water	0.03 ppm	50 mL	1000 µg/L U	1	300	1000			2/21/24 18:10:00	N	II
KQ2401788-01	Strontium, Total	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	2	100			2/21/24 18:10:00	N	II
KQ2401788-01	Tin, Total	MB		Water	0.00 ppm	50 mL	500 µg/L U	1	8	500			2/21/24 18:10:00	N	II
KQ2401788-01	Vanadium, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	0.7	50			2/21/24 18:10:00	N	II
KQ2401788-01	Zinc, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	3	20			2/21/24 18:10:00	N	II
KQ2401788-02	Aluminum, Total	LCS		Water	1.90 ppm	50 mL	1900 µg/L	1	30	100	95		2/21/24 18:13:00	N	II
KQ2401788-02	Arsenic, Total	LCS		Water	0.04 ppm	50 mL	36.6 µg/L	1	6	10	92		2/21/24 18:13:00	N	II
KQ2401788-02	Barium, Total	LCS		Water	2.00 ppm	50 mL	2000 µg/L	1	3	20	100		2/21/24 18:13:00	N	II
KQ2401788-02	Beryllium, Total	LCS		Water	0.05 ppm	50 mL	47.5 µg/L	1	0.2	3.0	95		2/21/24 18:13:00	N	II
KQ2401788-02	Boron, Total	LCS		Water	0.95 ppm	50 mL	953 µg/L	1	20	200	95		2/21/24 18:13:00	N	II
KQ2401788-02	Cadmium, Total	LCS		Water	0.05 ppm	50 mL	50.5 µg/L	1	0.4	5.0	101		2/21/24 18:13:00	N	II
KQ2401788-02	Calcium, Dissolved	LCS		Water	1.98 ppm	50 mL	1980 µg/L	1	300	1000	99		2/21/24 18:13:00	N	II
KQ2401788-02	Calcium, Total	LCS		Water	1.98 ppm	50 mL	1980 µg/L	1	300	1000	99		2/21/24 18:13:00	N	II
KQ2401788-02	Chromium, Total	LCS		Water	0.20 ppm	50 mL	196 µg/L	1	2	10	98		2/21/24 18:13:00	N	II
KQ2401788-02	Cobalt, Total	LCS		Water	0.50 ppm	50 mL	503 µg/L	1	0.9	50	101		2/21/24 18:13:00	N	II
KQ2401788-02	Copper, Total	LCS		Water	0.24 ppm	50 mL	245 µg/L	1	4	20	98		2/21/24 18:13:00	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833054 **Method/Testcode:** 6010C/Fe T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
‹Q2401788-02	Iron, Total	LCS		Water	0.98 ppm	50 mL	977 µg/L	1	70	100	98		2/21/24 18:13:00	N	II
‹Q2401788-02	Lead, Total	LCS		Water	0.50 ppm	50 mL	501 µg/L	1	4	50	100		2/21/24 18:13:00	N	II
‹Q2401788-02	Magnesium, Total	LCS		Water	1.91 ppm	50 mL	1910 µg/L	1	30	1000	96		2/21/24 18:13:00	N	II
‹Q2401788-02	Manganese, Total	LCS		Water	0.48 ppm	50 mL	482 µg/L	1	4	10	96		2/21/24 18:13:00	N	II
‹Q2401788-02	Molybdenum, Total	LCS		Water	0.48 ppm	50 mL	476 µg/L	1	3	25	95		2/21/24 18:13:00	N	II
‹Q2401788-02	Nickel, Total	LCS		Water	0.52 ppm	50 mL	516 µg/L	1	3	40	103		2/21/24 18:13:00	N	II
‹Q2401788-02	Potassium, Total	LCS		Water	18.20 ppm	50 mL	18200 µg/L	1	400	2000	91		2/21/24 18:13:00	N	II
‹Q2401788-02	Selenium, Total	LCS		Water	0.97 ppm	50 mL	966 µg/L	1	7	10	96		2/21/24 18:13:00	N	II
‹Q2401788-02	Silver, Total	LCS		Water	0.05 ppm	50 mL	50.3 µg/L	1	0.6	10	101		2/21/24 18:13:00	N	II
‹Q2401788-02	Sodium, Total	LCS		Water	18.87 ppm	50 mL	18900 µg/L	1	300	1000	94		2/21/24 18:13:00	N	II
‹Q2401788-02	Strontium, Total	LCS		Water	1.98 ppm	50 mL	1980 µg/L	1	2	100	99		2/21/24 18:13:00	N	II
‹Q2401788-02	Tin, Total	LCS		Water	4.87 ppm	50 mL	4870 µg/L	1	8	500	97		2/21/24 18:13:00	N	II
‹Q2401788-02	Vanadium, Total	LCS		Water	0.48 ppm	50 mL	480 µg/L	1	0.7	50	96		2/21/24 18:13:00	N	II
‹Q2401788-02	Zinc, Total	LCS		Water	0.50 ppm	50 mL	499 µg/L	1	3	20	100		2/21/24 18:13:00	N	II
‹2401215-001	Aluminum, Total	N/A		Water	0.08 ppm	50 mL	0.10 mg/L U	1	0.03	0.10			2/21/24 18:17:00	N	II
‹2401215-001	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.006	0.010			2/21/24 18:17:00	N	II
‹2401215-001	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0004	0.0050			2/21/24 18:17:00	N	II
‹2401215-001	Calcium, Total	N/A		Water	7.68 ppm	50 mL	7.7 mg/L	1	0.3	1.0			2/21/24 18:17:00	N	II
‹2401215-001	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			2/21/24 18:17:00	N	II
‹2401215-001	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.004	0.020			2/21/24 18:17:00	N	II
‹2401215-001	Iron, Total	N/A		Water	0.12 ppm	50 mL	0.12 mg/L	1	0.07	0.10			2/21/24 18:17:00	N	II
‹2401215-001	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			2/21/24 18:17:00	N	II
‹2401215-001	Magnesium, Total	N/A		Water	1.70 ppm	50 mL	1.7 mg/L	1	0.03	1.0			2/21/24 18:17:00	N	II
‹2401215-001	Manganese, Total	N/A		Water	0.02 ppm	50 mL	0.021 mg/L	1	0.004	0.010			2/21/24 18:17:00	N	II
‹2401215-001	Nickel, Total	N/A		Water	0.00 ppm	50 mL	0.040 mg/L U	1	0.003	0.040			2/21/24 18:17:00	N	II
‹2401215-001	Potassium, Total	N/A		Water	0.78 ppm	50 mL	2.0 mg/L U	1	0.4	2.0			2/21/24 18:17:00	N	II
‹2401215-001	Sodium, Total	N/A		Water	7.96 ppm	50 mL	8.0 mg/L	1	0.3	1.0			2/21/24 18:17:00	N	II
‹Q2401788-03	Aluminum, Total	MS	R2401215-001	Water	1.99 ppm	50 mL	1990 µg/L	1	30	100	100		2/21/24 18:20:00	N	II
‹Q2401788-03	Arsenic, Total	MS	R2401215-001	Water	0.04 ppm	50 mL	39 µg/L	1	6	10	97		2/21/24 18:20:00	N	II
‹Q2401788-03	Cadmium, Total	MS	R2401215-001	Water	0.05 ppm	50 mL	50.9 µg/L	1	0.4	5.0	102		2/21/24 18:20:00	N	II
‹Q2401788-03	Calcium, Total	MS	R2401215-001	Water	9.69 ppm	50 mL	9700 µg/L	1	300	1000	100		2/21/24 18:20:00	N	II
‹Q2401788-03	Chromium, Total	MS	R2401215-001	Water	0.20 ppm	50 mL	200 µg/L	1	2	10	100		2/21/24 18:20:00	N	II
‹Q2401788-03	Copper, Total	MS	R2401215-001	Water	0.25 ppm	50 mL	250 µg/L	1	4	20	100		2/21/24 18:20:00	N	II
‹Q2401788-03	Iron, Total	MS	R2401215-001	Water	1.10 ppm	50 mL	1100 µg/L	1	70	100	98		2/21/24 18:20:00	N	II
‹Q2401788-03	Lead, Total	MS	R2401215-001	Water	0.50 ppm	50 mL	504 µg/L	1	4	50	101		2/21/24 18:20:00	N	II
‹Q2401788-03	Magnesium, Total	MS	R2401215-001	Water	3.63 ppm	50 mL	3600 µg/L	1	30	1000	97		2/21/24 18:20:00	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833054 **Method/Testcode:** 6010C/Mn T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2401788-03	Manganese, Total	MS	R2401215-001	Water	0.51 ppm	50 mL	511 µg/L	1	4	10	98		2/21/24 18:20:00	N	II
KQ2401788-03	Nickel, Total	MS	R2401215-001	Water	0.52 ppm	50 mL	522 µg/L	1	3	40	104		2/21/24 18:20:00	N	II
KQ2401788-03	Potassium, Total	MS	R2401215-001	Water	19.38 ppm	50 mL	19400 µg/L	1	400	2000	97		2/21/24 18:20:00	N	II
KQ2401788-03	Sodium, Total	MS	R2401215-001	Water	27.20 ppm	50 mL	27200 µg/L	1	300	1000	96		2/21/24 18:20:00	N	II
KQ2401788-04	Aluminum, Total	DMS	R2401215-001	Water	1.98 ppm	50 mL	1980 µg/L	1	30	100	99	<1	2/21/24 18:23:00	N	II
KQ2401788-04	Arsenic, Total	DMS	R2401215-001	Water	0.04 ppm	50 mL	37 µg/L	1	6	10	94	4	2/21/24 18:23:00	N	II
KQ2401788-04	Cadmium, Total	DMS	R2401215-001	Water	0.05 ppm	50 mL	50.8 µg/L	1	0.4	5.0	102	<1	2/21/24 18:23:00	N	II
KQ2401788-04	Calcium, Total	DMS	R2401215-001	Water	9.67 ppm	50 mL	9700 µg/L	1	300	1000	100	<1	2/21/24 18:23:00	N	II
KQ2401788-04	Chromium, Total	DMS	R2401215-001	Water	0.20 ppm	50 mL	199 µg/L	1	2	10	99	<1	2/21/24 18:23:00	N	II
KQ2401788-04	Copper, Total	DMS	R2401215-001	Water	0.25 ppm	50 mL	249 µg/L	1	4	20	99	<1	2/21/24 18:23:00	N	II
KQ2401788-04	Iron, Total	DMS	R2401215-001	Water	1.09 ppm	50 mL	1090 µg/L	1	70	100	97	<1	2/21/24 18:23:00	N	II
KQ2401788-04	Lead, Total	DMS	R2401215-001	Water	0.50 ppm	50 mL	502 µg/L	1	4	50	100	<1	2/21/24 18:23:00	N	II
KQ2401788-04	Magnesium, Total	DMS	R2401215-001	Water	3.62 ppm	50 mL	3600 µg/L	1	30	1000	96	<1	2/21/24 18:23:00	N	II
KQ2401788-04	Manganese, Total	DMS	R2401215-001	Water	0.51 ppm	50 mL	509 µg/L	1	4	10	98	<1	2/21/24 18:23:00	N	II
KQ2401788-04	Nickel, Total	DMS	R2401215-001	Water	0.52 ppm	50 mL	520 µg/L	1	3	40	104	<1	2/21/24 18:23:00	N	II
KQ2401788-04	Potassium, Total	DMS	R2401215-001	Water	19.31 ppm	50 mL	19300 µg/L	1	400	2000	97	<1	2/21/24 18:23:00	N	II
KQ2401788-04	Sodium, Total	DMS	R2401215-001	Water	27.11 ppm	50 mL	27100 µg/L	1	300	1000	96	<1	2/21/24 18:23:00	N	II
K2401215-002	Aluminum, Total	N/A		Water	0.07 ppm	50 mL	0.10 mg/L U	1	0.03	0.10			2/21/24 18:33:00	N	II
K2401215-002	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.006	0.010			2/21/24 18:33:00	N	II
K2401215-002	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0004	0.0050			2/21/24 18:33:00	N	II
K2401215-002	Calcium, Total	N/A		Water	7.57 ppm	50 mL	7.6 mg/L	1	0.3	1.0			2/21/24 18:33:00	N	II
K2401215-002	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			2/21/24 18:33:00	N	II
K2401215-002	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.004	0.020			2/21/24 18:33:00	N	II
K2401215-002	Iron, Total	N/A		Water	0.11 ppm	50 mL	0.11 mg/L	1	0.07	0.10			2/21/24 18:33:00	N	II
K2401215-002	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			2/21/24 18:33:00	N	II
K2401215-002	Magnesium, Total	N/A		Water	1.66 ppm	50 mL	1.7 mg/L	1	0.03	1.0			2/21/24 18:33:00	N	II
K2401215-002	Manganese, Total	N/A		Water	0.02 ppm	50 mL	0.015 mg/L	1	0.004	0.010			2/21/24 18:33:00	N	II
K2401215-002	Nickel, Total	N/A		Water	0.00 ppm	50 mL	0.040 mg/L U	1	0.003	0.040			2/21/24 18:33:00	N	II
K2401215-002	Potassium, Total	N/A		Water	0.79 ppm	50 mL	2.0 mg/L U	1	0.4	2.0			2/21/24 18:33:00	N	II
K2401215-002	Sodium, Total	N/A		Water	8.01 ppm	50 mL	8.0 mg/L	1	0.3	1.0			2/21/24 18:33:00	N	II
K2401216-001	Calcium, Total	N/A		Water	7.43 ppm	50 mL	7.4 mg/L	1	0.3	1.0			2/21/24 18:36:00	N	II
K2401216-001	Magnesium, Total	N/A		Water	1.91 ppm	50 mL	1.9 mg/L	1	0.03	1.0			2/21/24 18:36:00	N	II
K2401216-001	Potassium, Total	N/A		Water	1.22 ppm	50 mL	2.0 mg/L U	1	0.4	2.0			2/21/24 18:36:00	N	II
K2401216-001	Sodium, Total	N/A		Water	37.03 ppm	50 mL	37.0 mg/L	1	0.3	1.0			2/21/24 18:36:00	N	II
K2401216-002	Calcium, Dissolved	N/A		Water	7.38 ppm	50 mL	7.4 mg/L	1	0.3	1.0			2/21/24 18:39:00	N	II
K2401216-003	Calcium, Total	N/A		Water	21.10 ppm	50 mL	21.1 mg/L	1	0.3	1.0			2/21/24 18:49:00	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833054 **Method/Testcode:** 6010C/Mg T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2401216-003	Magnesium, Total	N/A		Water	5.91 ppm	50 mL	5.9 mg/L	1	0.03	1.0			2/21/24 18:49:00	N	II
2401216-003	Potassium, Total	N/A		Water	3.05 ppm	50 mL	3.1 mg/L	1	0.4	2.0			2/21/24 18:49:00	N	II
2401216-003	Sodium, Total	N/A		Water	94.56 ppm	50 mL	94.6 mg/L	1	0.3	1.0			2/21/24 18:49:00	N	II
2401216-004	Calcium, Dissolved	N/A		Water	21.23 ppm	50 mL	21.2 mg/L	1	0.3	1.0			2/21/24 18:52:00	N	II
2401216-005	Calcium, Total	N/A		Water	4.97 ppm	50 mL	5.0 mg/L	1	0.3	1.0			2/21/24 18:55:00	N	II
2401216-005	Magnesium, Total	N/A		Water	1.40 ppm	50 mL	1.4 mg/L	1	0.03	1.0			2/21/24 18:55:00	N	II
2401216-005	Potassium, Total	N/A		Water	0.86 ppm	50 mL	2.0 mg/L U	1	0.4	2.0			2/21/24 18:55:00	N	II
2401216-005	Sodium, Total	N/A		Water	72.94 ppm	50 mL	72.9 mg/L	1	0.3	1.0			2/21/24 18:55:00	N	II
2401216-006	Calcium, Dissolved	N/A		Water	5.05 ppm	50 mL	5.0 mg/L	1	0.3	1.0			2/21/24 18:59:00	N	II
2401216-007	Calcium, Total	N/A		Water	5.67 ppm	50 mL	5.7 mg/L	1	0.3	1.0			2/21/24 19:02:00	N	II
2401216-007	Magnesium, Total	N/A		Water	1.54 ppm	50 mL	1.5 mg/L	1	0.03	1.0			2/21/24 19:02:00	N	II
2401216-007	Potassium, Total	N/A		Water	0.50 ppm	50 mL	2.0 mg/L U	1	0.4	2.0			2/21/24 19:02:00	N	II
2401216-007	Sodium, Total	N/A		Water	3.91 ppm	50 mL	3.9 mg/L	1	0.3	1.0			2/21/24 19:02:00	N	II
2401216-008	Calcium, Dissolved	N/A		Water	5.67 ppm	50 mL	5.7 mg/L	1	0.3	1.0			2/21/24 19:05:00	N	II
2401241-005	Aluminum, Total	N/A		Water	0.01 ppm	50 mL	0.10 mg/L U	1	0.03	0.10			2/21/24 19:08:00	N	IV
2401241-005	Barium, Total	N/A		Water	0.03 ppm	50 mL	0.027 mg/L	1	0.003	0.020			2/21/24 19:08:00	N	IV
2401241-005	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	0.0030 mg/L U	1	0.0002	0.0030			2/21/24 19:08:00	N	IV
2401241-005	Boron, Total	N/A		Water	0.07 ppm	50 mL	0.07 mg/L J	1	0.02	0.20			2/21/24 19:08:00	N	IV
2401241-005	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0004	0.0050			2/21/24 19:08:00	N	IV
2401241-005	Calcium, Total	N/A		Water	142.15 ppm	50 mL	142 mg/L	1	0.3	1.0			2/21/24 19:08:00	N	IV
2401241-005	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.005 mg/L J	1	0.002	0.010			2/21/24 19:08:00	N	IV
2401241-005	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.0009	0.050			2/21/24 19:08:00	N	IV
2401241-005	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.004	0.020			2/21/24 19:08:00	N	IV
2401241-005	Iron, Total	N/A		Water	0.01 ppm	50 mL	0.10 mg/L U	1	0.07	0.10			2/21/24 19:08:00	N	IV
2401241-005	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			2/21/24 19:08:00	N	IV
2401241-005	Magnesium, Total	N/A		Water	70.80 ppm	50 mL	70.8 mg/L	1	0.03	1.0			2/21/24 19:08:00	N	IV
2401241-005	Manganese, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.004	0.010			2/21/24 19:08:00	N	IV
2401241-005	Molybdenum, Total	N/A		Water	0.01 ppm	50 mL	0.01 mg/L J	1	0.003	0.025			2/21/24 19:08:00	N	IV
2401241-005	Nickel, Total	N/A		Water	0.00 ppm	50 mL	0.040 mg/L U	1	0.003	0.040			2/21/24 19:08:00	N	IV
2401241-005	Potassium, Total	N/A		Water	2.62 ppm	50 mL	2.6 mg/L	1	0.4	2.0			2/21/24 19:08:00	N	IV
2401241-005	Selenium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.007	0.010			2/21/24 19:08:00	N	IV
2401241-005	Silver, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.0006	0.010			2/21/24 19:08:00	N	IV
2401241-005	Sodium, Total	N/A		Water	35.70 ppm	50 mL	35.7 mg/L	1	0.3	1.0			2/21/24 19:08:00	N	IV
2401241-005	Strontium, Total	N/A		Water	3.44 ppm	50 mL	3.44 mg/L	1	0.002	0.10			2/21/24 19:08:00	N	IV
2401241-005	Tin, Total	N/A		Water	0.00 ppm	50 mL	0.50 mg/L U	1	0.008	0.50			2/21/24 19:08:00	N	IV
2401241-005	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	0.0007 mg/L J	1	0.0007	0.050			2/21/24 19:08:00	N	IV

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Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833054 **Method/Testcode:** 6010C/Zn T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2401241-005	Zinc, Total	N/A		Water	0.02 ppm	50 mL	0.022 mg/L	1	0.003	0.020			2/21/24 19:08:00	N	IV
2401325-001	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.4	5.0			2/21/24 19:12:00	N	II
2401325-001	Calcium, Total	N/A		Water	142.06 ppm	50 mL	142000 µg/L	1	300	1000			2/21/24 19:12:00	N	II
2401325-001	Iron, Total	N/A		Water	0.61 ppm	50 mL	610 µg/L	1	70	100			2/21/24 19:12:00	N	II
2401325-001	Lead, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	3.2	5.0			2/21/24 19:12:00	N	II
2401325-001	Magnesium, Total	N/A		Water	56.17 ppm	50 mL	56200 µg/L	1	30	1000			2/21/24 19:12:00	N	II
2401325-001	Manganese, Total	N/A		Water	0.03 ppm	50 mL	25 µg/L	1	4	10			2/21/24 19:12:00	N	II
2401325-001	Potassium, Total	N/A		Water	2.12 ppm	50 mL	2100 µg/L	1	400	2000			2/21/24 19:12:00	N	II
2401325-001	Sodium, Total	N/A		Water	18.24 ppm	50 mL	18200 µg/L	1	300	1000			2/21/24 19:12:00	N	II
2401325-002	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.4	5.0			2/21/24 19:15:00	N	II
2401325-002	Calcium, Total	N/A		Water	113.69 ppm	50 mL	114000 µg/L	1	300	1000			2/21/24 19:15:00	N	II
2401325-002	Iron, Total	N/A		Water	0.31 ppm	50 mL	310 µg/L	1	70	100			2/21/24 19:15:00	N	II
2401325-002	Lead, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	3.2	5.0			2/21/24 19:15:00	N	II
2401325-002	Magnesium, Total	N/A		Water	51.04 ppm	50 mL	51000 µg/L	1	30	1000			2/21/24 19:15:00	N	II
2401325-002	Manganese, Total	N/A		Water	0.00 ppm	50 mL	5 µg/L J	1	4	10			2/21/24 19:15:00	N	II
2401325-002	Potassium, Total	N/A		Water	1.84 ppm	50 mL	1800 µg/L J	1	400	2000			2/21/24 19:15:00	N	II
2401325-002	Sodium, Total	N/A		Water	21.34 ppm	50 mL	21300 µg/L	1	300	1000			2/21/24 19:15:00	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833055 **Method/Testcode:** 6010C/As D

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2401789-01	Arsenic, Dissolved	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/21/24 19:41:00	N	IV
KQ2401789-01	Iron, Dissolved	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	70	100			2/21/24 19:41:00	N	IV
KQ2401789-01	Manganese, Dissolved	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			2/21/24 19:41:00	N	IV
KQ2401789-02	Arsenic, Dissolved	LCS		Water	0.04 ppm	50 mL	37.8 µg/L	1	6	10	95		2/21/24 19:44:00	N	IV
KQ2401789-02	Iron, Dissolved	LCS		Water	1.00 ppm	50 mL	996 µg/L	1	70	100	100		2/21/24 19:44:00	N	IV
KQ2401789-02	Manganese, Dissolved	LCS		Water	0.49 ppm	50 mL	491 µg/L	1	4	10	98		2/21/24 19:44:00	N	IV
K2401280-002	Arsenic, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/21/24 19:47:00	N	IV
K2401280-002	Iron, Dissolved	N/A		Water	6.23 ppm	50 mL	6230 µg/L	1	70	100			2/21/24 19:47:00	N	IV
K2401280-002	Manganese, Dissolved	N/A		Water	0.36 ppm	50 mL	362 µg/L	1	4	10			2/21/24 19:47:00	N	IV
K2401280-003	Arsenic, Dissolved	N/A		Water	0.01 ppm	50 mL	10 µg/L U	1	6	10			2/21/24 19:50:00	N	IV
K2401280-003	Iron, Dissolved	N/A		Water	3.67 ppm	50 mL	3670 µg/L	1	70	100			2/21/24 19:50:00	N	IV
K2401280-003	Manganese, Dissolved	N/A		Water	2.90 ppm	50 mL	2900 µg/L	1	4	10			2/21/24 19:50:00	N	IV
K2401280-004	Arsenic, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/21/24 19:54:00	N	IV
K2401280-004	Iron, Dissolved	N/A		Water	0.01 ppm	50 mL	100 µg/L U	1	70	100			2/21/24 19:54:00	N	IV
K2401280-004	Manganese, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			2/21/24 19:54:00	N	IV
K2401280-006	Arsenic, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/21/24 19:57:00	N	IV
K2401280-006	Iron, Dissolved	N/A		Water	0.01 ppm	50 mL	100 µg/L U	1	70	100			2/21/24 19:57:00	N	IV
K2401280-006	Manganese, Dissolved	N/A		Water	0.01 ppm	50 mL	11 µg/L	1	4	10			2/21/24 19:57:00	N	IV
K2401280-008	Arsenic, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/21/24 20:00:00	N	IV
K2401280-008	Iron, Dissolved	N/A		Water	0.01 ppm	50 mL	100 µg/L U	1	70	100			2/21/24 20:00:00	N	IV
K2401280-008	Manganese, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			2/21/24 20:00:00	N	IV
K2401280-009	Arsenic, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/21/24 20:03:00	N	IV
K2401280-009	Iron, Dissolved	N/A		Water	0.01 ppm	50 mL	100 µg/L U	1	70	100			2/21/24 20:03:00	N	IV
K2401280-009	Manganese, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			2/21/24 20:03:00	N	IV
K2401280-010	Arsenic, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/21/24 20:06:00	N	IV
K2401280-010	Iron, Dissolved	N/A		Water	0.23 ppm	50 mL	230 µg/L	1	70	100			2/21/24 20:06:00	N	IV
K2401280-010	Manganese, Dissolved	N/A		Water	0.77 ppm	50 mL	767 µg/L	1	4	10			2/21/24 20:06:00	N	IV
K2401280-011	Arsenic, Dissolved	N/A		Water	0.02 ppm	50 mL	18 µg/L	1	6	10			2/21/24 20:10:00	N	IV
K2401280-011	Iron, Dissolved	N/A		Water	42.33 ppm	50 mL	42300 µg/L	1	70	100			2/21/24 20:10:00	N	IV
K2401280-012	Arsenic, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/21/24 20:19:00	N	IV
K2401280-012	Iron, Dissolved	N/A		Water	0.00 ppm	50 mL	100 µg/L U	1	70	100			2/21/24 20:19:00	N	IV
K2401280-012	Manganese, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			2/21/24 20:19:00	N	IV
K2401280-013	Arsenic, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/21/24 20:23:00	N	IV
K2401280-013	Iron, Dissolved	N/A		Water	5.49 ppm	50 mL	5490 µg/L	1	70	100			2/21/24 20:23:00	N	IV
K2401280-013	Manganese, Dissolved	N/A		Water	1.17 ppm	50 mL	1170 µg/L	1	4	10			2/21/24 20:23:00	N	IV
K2401280-014	Arsenic, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/21/24 20:26:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833055 **Method/Testcode:** 6010C/Fe D

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R2401280-014	Iron, Dissolved	N/A		Water	0.06 ppm	50 mL	100 µg/L U	1	70	100			2/21/24 20:26:00	N	IV
R2401280-014	Manganese, Dissolved	N/A		Water	0.24 ppm	50 mL	238 µg/L	1	4	10			2/21/24 20:26:00	N	IV
R2401280-015	Arsenic, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/21/24 20:29:00	N	IV
R2401280-015	Iron, Dissolved	N/A		Water	5.47 ppm	50 mL	5470 µg/L	1	70	100			2/21/24 20:29:00	N	IV
R2401280-015	Manganese, Dissolved	N/A		Water	1.17 ppm	50 mL	1170 µg/L	1	4	10			2/21/24 20:29:00	N	IV
R2401280-016	Arsenic, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/21/24 20:32:00	N	IV
R2401280-016	Iron, Dissolved	N/A		Water	0.83 ppm	50 mL	830 µg/L	1	70	100			2/21/24 20:32:00	N	IV
R2401280-016	Manganese, Dissolved	N/A		Water	1.17 ppm	50 mL	1170 µg/L	1	4	10			2/21/24 20:32:00	N	IV
R2401280-017	Arsenic, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/21/24 20:35:00	N	IV
R2401280-017	Iron, Dissolved	N/A		Water	29.85 ppm	50 mL	29800 µg/L	1	70	100			2/21/24 20:35:00	N	IV
R2401280-018	Arsenic, Dissolved	N/A		Water	0.08 ppm	50 mL	76 µg/L	1	6	10			2/21/24 20:39:00	Y	IV
R2401280-018	Manganese, Dissolved	N/A		Water	4.74 ppm	50 mL	4740 µg/L	1	4	10			2/21/24 20:39:00	Y	IV
RQ2401789-03	Arsenic, Dissolved	MS	R2401280-018	Water	0.12 ppm	50 mL	116 µg/L	1	6	10	101		2/21/24 20:42:00	N	IV
RQ2401789-03	Manganese, Dissolved	MS	R2401280-018	Water	5.16 ppm	50 mL	5160 µg/L	1	4	10	84		2/21/24 20:42:00	N	IV
RQ2401789-04	Arsenic, Dissolved	DMS	R2401280-018	Water	0.11 ppm	50 mL	111 µg/L	1	6	10	87	5	2/21/24 20:45:00	N	IV
RQ2401789-04	Manganese, Dissolved	DMS	R2401280-018	Water	4.91 ppm	50 mL	4910 µg/L	1	4	10	35*	5	2/21/24 20:45:00	N	IV
R2401280-019	Arsenic, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10	Spk too low		2/21/24 21:01:00	N	IV
R2401280-019	Iron, Dissolved	N/A		Water	0.12 ppm	50 mL	120 µg/L	1	70	100			2/21/24 21:01:00	N	IV
R2401280-019	Manganese, Dissolved	N/A		Water	0.05 ppm	50 mL	46 µg/L	1	4	10			2/21/24 21:01:00	N	IV
R2401280-020	Arsenic, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/21/24 21:05:00	N	IV
R2401280-020	Iron, Dissolved	N/A		Water	0.01 ppm	50 mL	100 µg/L U	1	70	100			2/21/24 21:05:00	N	IV
R2401280-020	Manganese, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			2/21/24 21:05:00	N	IV
R2401280-022	Arsenic, Dissolved	N/A		Water	0.01 ppm	50 mL	6 µg/L J	1	6	10			2/21/24 21:08:00	N	IV
R2401280-022	Iron, Dissolved	N/A		Water	1.55 ppm	50 mL	1550 µg/L	1	70	100			2/21/24 21:08:00	N	IV
R2401280-022	Manganese, Dissolved	N/A		Water	0.25 ppm	50 mL	246 µg/L	1	4	10			2/21/24 21:08:00	N	IV
R2401280-023	Arsenic, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/21/24 21:11:00	N	IV
R2401280-023	Iron, Dissolved	N/A		Water	0.01 ppm	50 mL	100 µg/L U	1	70	100			2/21/24 21:11:00	N	IV
R2401280-023	Manganese, Dissolved	N/A		Water	0.23 ppm	50 mL	234 µg/L	1	4	10			2/21/24 21:11:00	N	IV
R2401280-024	Arsenic, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/21/24 21:14:00	N	IV
R2401280-024	Iron, Dissolved	N/A		Water	0.00 ppm	50 mL	100 µg/L U	1	70	100			2/21/24 21:14:00	N	IV
R2401280-024	Manganese, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			2/21/24 21:14:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833056 **Method/Testcode:** 6010C/Al T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2401790-01	Aluminum, Total	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	30	100			2/21/24 21:40:00	N	IV
KQ2401790-01	Antimony, Total	MB		Water	0.01 ppm	50 mL	60 µg/L U	1	11	60			2/21/24 21:40:00	N	IV
KQ2401790-01	Arsenic, Dissolved	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/21/24 21:40:00	N	IV
KQ2401790-01	Arsenic, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/21/24 21:40:00	N	IV
KQ2401790-01	Barium, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	3	20			2/21/24 21:40:00	N	IV
KQ2401790-01	Beryllium, Total	MB		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.2	3.0			2/21/24 21:40:00	N	IV
KQ2401790-01	Boron, Total	MB		Water	0.00 ppm	50 mL	200 µg/L U	1	20	200			2/21/24 21:40:00	N	IV
KQ2401790-01	Cadmium, Total	MB		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.4	5.0			2/21/24 21:40:00	N	IV
KQ2401790-01	Calcium, Total	MB		Water	0.00 ppm	50 mL	1000 µg/L U	1	300	1000			2/21/24 21:40:00	N	IV
KQ2401790-01	Chromium, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			2/21/24 21:40:00	N	IV
KQ2401790-01	Cobalt, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	0.9	50			2/21/24 21:40:00	N	IV
KQ2401790-01	Copper, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	4	20			2/21/24 21:40:00	N	IV
KQ2401790-01	Iron, Dissolved	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	70	100			2/21/24 21:40:00	N	IV
KQ2401790-01	Iron, Total	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	70	100			2/21/24 21:40:00	N	IV
KQ2401790-01	Lead, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			2/21/24 21:40:00	N	IV
KQ2401790-01	Magnesium, Total	MB		Water	0.00 ppm	50 mL	1000 µg/L U	1	30	1000			2/21/24 21:40:00	N	IV
KQ2401790-01	Manganese, Dissolved	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			2/21/24 21:40:00	N	IV
KQ2401790-01	Manganese, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			2/21/24 21:40:00	N	IV
KQ2401790-01	Molybdenum, Total	MB		Water	0.00 ppm	50 mL	25 µg/L U	1	3	25			2/21/24 21:40:00	N	IV
KQ2401790-01	Nickel, Total	MB		Water	0.00 ppm	50 mL	40 µg/L U	1	3	40			2/21/24 21:40:00	N	IV
KQ2401790-01	Potassium, Total	MB		Water	0.00 ppm	50 mL	2000 µg/L U	1	400	2000			2/21/24 21:40:00	N	IV
KQ2401790-01	Selenium, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	7	10			2/21/24 21:40:00	N	IV
KQ2401790-01	Silver, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	0.6	10			2/21/24 21:40:00	N	IV
KQ2401790-01	Sodium, Total	MB		Water	0.04 ppm	50 mL	1000 µg/L U	1	300	1000			2/21/24 21:40:00	N	IV
KQ2401790-01	Strontium, Total	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	2	100			2/21/24 21:40:00	N	IV
KQ2401790-01	Thallium, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	8	10			2/21/24 21:40:00	N	IV
KQ2401790-01	Tin, Total	MB		Water	0.00 ppm	50 mL	500 µg/L U	1	8	500			2/21/24 21:40:00	N	IV
KQ2401790-01	Vanadium, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	0.7	50			2/21/24 21:40:00	N	IV
KQ2401790-01	Zinc, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	3	20			2/21/24 21:40:00	N	IV
KQ2401790-02	Aluminum, Total	LCS		Water	1.97 ppm	50 mL	1970 µg/L	1	30	100	99		2/21/24 21:43:00	N	IV
KQ2401790-02	Antimony, Total	LCS		Water	0.50 ppm	50 mL	497 µg/L	1	11	60	99		2/21/24 21:43:00	N	IV
KQ2401790-02	Arsenic, Dissolved	LCS		Water	0.04 ppm	50 mL	39.3 µg/L	1	6	10	98		2/21/24 21:43:00	N	IV
KQ2401790-02	Arsenic, Total	LCS		Water	0.04 ppm	50 mL	39.3 µg/L	1	6	10	98		2/21/24 21:43:00	N	IV
KQ2401790-02	Barium, Total	LCS		Water	2.06 ppm	50 mL	2060 µg/L	1	3	20	103		2/21/24 21:43:00	N	IV
KQ2401790-02	Beryllium, Total	LCS		Water	0.05 ppm	50 mL	48.9 µg/L	1	0.2	3.0	98		2/21/24 21:43:00	N	IV
KQ2401790-02	Boron, Total	LCS		Water	0.99 ppm	50 mL	986 µg/L	1	20	200	99		2/21/24 21:43:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833056 **Method/Testcode:** 6010C/Cd T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2401790-02	Cadmium, Total	LCS		Water	0.05 ppm	50 mL	51.8 µg/L	1	0.4	5.0	104		2/21/24 21:43:00	N	IV
KQ2401790-02	Calcium, Total	LCS		Water	2.03 ppm	50 mL	2030 µg/L	1	300	1000	101		2/21/24 21:43:00	N	IV
KQ2401790-02	Chromium, Total	LCS		Water	0.20 ppm	50 mL	201 µg/L	1	2	10	101		2/21/24 21:43:00	N	IV
KQ2401790-02	Cobalt, Total	LCS		Water	0.52 ppm	50 mL	519 µg/L	1	0.9	50	104		2/21/24 21:43:00	N	IV
KQ2401790-02	Copper, Total	LCS		Water	0.25 ppm	50 mL	253 µg/L	1	4	20	101		2/21/24 21:43:00	N	IV
KQ2401790-02	Iron, Dissolved	LCS		Water	1.01 ppm	50 mL	1010 µg/L	1	70	100	101		2/21/24 21:43:00	N	IV
KQ2401790-02	Iron, Total	LCS		Water	1.01 ppm	50 mL	1010 µg/L	1	70	100	101		2/21/24 21:43:00	N	IV
KQ2401790-02	Lead, Total	LCS		Water	0.52 ppm	50 mL	518 µg/L	1	4	50	104		2/21/24 21:43:00	N	IV
KQ2401790-02	Magnesium, Total	LCS		Water	1.96 ppm	50 mL	1960 µg/L	1	30	1000	98		2/21/24 21:43:00	N	IV
KQ2401790-02	Manganese, Dissolved	LCS		Water	0.50 ppm	50 mL	496 µg/L	1	4	10	99		2/21/24 21:43:00	N	IV
KQ2401790-02	Manganese, Total	LCS		Water	0.50 ppm	50 mL	496 µg/L	1	4	10	99		2/21/24 21:43:00	N	IV
KQ2401790-02	Molybdenum, Total	LCS		Water	0.49 ppm	50 mL	492 µg/L	1	3	25	98		2/21/24 21:43:00	N	IV
KQ2401790-02	Nickel, Total	LCS		Water	0.53 ppm	50 mL	531 µg/L	1	3	40	106		2/21/24 21:43:00	N	IV
KQ2401790-02	Potassium, Total	LCS		Water	18.76 ppm	50 mL	18800 µg/L	1	400	2000	94		2/21/24 21:43:00	N	IV
KQ2401790-02	Selenium, Total	LCS		Water	1.00 ppm	50 mL	998 µg/L	1	7	10	99		2/21/24 21:43:00	N	IV
KQ2401790-02	Silver, Total	LCS		Water	0.05 ppm	50 mL	51.6 µg/L	1	0.6	10	103		2/21/24 21:43:00	N	IV
KQ2401790-02	Sodium, Total	LCS		Water	19.44 ppm	50 mL	19400 µg/L	1	300	1000	97		2/21/24 21:43:00	N	IV
KQ2401790-02	Strontium, Total	LCS		Water	2.03 ppm	50 mL	2030 µg/L	1	2	100	101		2/21/24 21:43:00	N	IV
KQ2401790-02	Thallium, Total	LCS		Water	2.04 ppm	50 mL	2040 µg/L	1	8	10	102		2/21/24 21:43:00	N	IV
KQ2401790-02	Tin, Total	LCS		Water	5.01 ppm	50 mL	5010 µg/L	1	8	500	100		2/21/24 21:43:00	N	IV
KQ2401790-02	Vanadium, Total	LCS		Water	0.49 ppm	50 mL	492 µg/L	1	0.7	50	98		2/21/24 21:43:00	N	IV
KQ2401790-02	Zinc, Total	LCS		Water	0.51 ppm	50 mL	513 µg/L	1	3	20	103		2/21/24 21:43:00	N	IV
K2401280-025	Arsenic, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/21/24 21:47:00	N	IV
K2401280-025	Iron, Dissolved	N/A		Water	0.01 ppm	50 mL	100 µg/L U	1	70	100			2/21/24 21:47:00	N	IV
K2401280-025	Manganese, Dissolved	N/A		Water	0.23 ppm	50 mL	232 µg/L	1	4	10			2/21/24 21:47:00	N	IV
K2401303-001	Aluminum, Total	N/A		Water	0.14 ppm	50 mL	140 µg/L	1	30	100			2/21/24 21:50:00	N	IV
K2401303-001	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	11	60			2/21/24 21:50:00	N	IV
K2401303-001	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/21/24 21:50:00	N	IV
K2401303-001	Barium, Total	N/A		Water	0.12 ppm	50 mL	125 µg/L	1	3	20			2/21/24 21:50:00	N	IV
K2401303-001	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.2	3.0			2/21/24 21:50:00	N	IV
K2401303-001	Boron, Total	N/A		Water	0.02 ppm	50 mL	200 µg/L U	1	20	200			2/21/24 21:50:00	N	IV
K2401303-001	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.4	5.0			2/21/24 21:50:00	N	IV
K2401303-001	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			2/21/24 21:50:00	N	IV
K2401303-001	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	4 µg/L J	1	0.9	50			2/21/24 21:50:00	N	IV
K2401303-001	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	4	20			2/21/24 21:50:00	N	IV
K2401303-001	Iron, Total	N/A		Water	0.20 ppm	50 mL	200 µg/L	1	70	100			2/21/24 21:50:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833056 **Method/Testcode:** 6010C/Pb T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2401303-001	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			2/21/24 21:50:00	N	IV
2401303-001	Magnesium, Total	N/A		Water	44.39 ppm	50 mL	44400 µg/L	1	30	1000			2/21/24 21:50:00	N	IV
2401303-001	Manganese, Total	N/A		Water	2.27 ppm	50 mL	2270 µg/L	1	4	10			2/21/24 21:50:00	N	IV
2401303-001	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	3	40			2/21/24 21:50:00	N	IV
2401303-001	Potassium, Total	N/A		Water	4.35 ppm	50 mL	4400 µg/L	1	400	2000			2/21/24 21:50:00	N	IV
2401303-001	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	7	10			2/21/24 21:50:00	N	IV
2401303-001	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	0.6	10			2/21/24 21:50:00	N	IV
2401303-001	Sodium, Total	N/A		Water	121.20 ppm	50 mL	121000 µg/L	1	300	1000			2/21/24 21:50:00	N	IV
2401303-001	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	8	10			2/21/24 21:50:00	N	IV
2401303-001	Tin, Total	N/A		Water	0.00 ppm	50 mL	500 µg/L U	1	8	500			2/21/24 21:50:00	N	IV
2401303-001	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	0.7	50			2/21/24 21:50:00	N	IV
2401303-001	Zinc, Total	N/A		Water	0.01 ppm	50 mL	5 µg/L J	1	3	20			2/21/24 21:50:00	N	IV
2401303-002	Aluminum, Total	N/A		Water	0.24 ppm	50 mL	240 µg/L	1	30	100			2/21/24 21:53:00	N	IV
2401303-002	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	11	60			2/21/24 21:53:00	N	IV
2401303-002	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/21/24 21:53:00	N	IV
2401303-002	Barium, Total	N/A		Water	0.08 ppm	50 mL	78 µg/L	1	3	20			2/21/24 21:53:00	N	IV
2401303-002	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.2	3.0			2/21/24 21:53:00	N	IV
2401303-002	Boron, Total	N/A		Water	0.05 ppm	50 mL	50 µg/L J	1	20	200			2/21/24 21:53:00	N	IV
2401303-002	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.4	5.0			2/21/24 21:53:00	N	IV
2401303-002	Calcium, Total	N/A		Water	155.66 ppm	50 mL	156000 µg/L	1	300	1000			2/21/24 21:53:00	N	IV
2401303-002	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			2/21/24 21:53:00	N	IV
2401303-002	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	0.9	50			2/21/24 21:53:00	N	IV
2401303-002	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	4	20			2/21/24 21:53:00	N	IV
2401303-002	Iron, Total	N/A		Water	0.28 ppm	50 mL	280 µg/L	1	70	100			2/21/24 21:53:00	N	IV
2401303-002	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			2/21/24 21:53:00	N	IV
2401303-002	Magnesium, Total	N/A		Water	28.29 ppm	50 mL	28300 µg/L	1	30	1000			2/21/24 21:53:00	N	IV
2401303-002	Manganese, Total	N/A		Water	0.21 ppm	50 mL	208 µg/L	1	4	10			2/21/24 21:53:00	N	IV
2401303-002	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	3	40			2/21/24 21:53:00	N	IV
2401303-002	Potassium, Total	N/A		Water	8.84 ppm	50 mL	8800 µg/L	1	400	2000			2/21/24 21:53:00	N	IV
2401303-002	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	7	10			2/21/24 21:53:00	N	IV
2401303-002	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	0.6	10			2/21/24 21:53:00	N	IV
2401303-002	Sodium, Total	N/A		Water	96.68 ppm	50 mL	96700 µg/L	1	300	1000			2/21/24 21:53:00	N	IV
2401303-002	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	8	10			2/21/24 21:53:00	N	IV
2401303-002	Tin, Total	N/A		Water	0.00 ppm	50 mL	500 µg/L U	1	8	500			2/21/24 21:53:00	N	IV
2401303-002	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	0.7	50			2/21/24 21:53:00	N	IV
2401303-002	Zinc, Total	N/A		Water	0.00 ppm	50 mL	4 µg/L J	1	3	20			2/21/24 21:53:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833056 **Method/Testcode:** 6010C/Al T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2401306-001	Aluminum, Total	N/A		Water	0.02 ppm	50 mL	0.10 mg/L U	1	0.03	0.10			2/21/24 21:56:00	N	IV
2401306-001	Barium, Total	N/A		Water	0.02 ppm	50 mL	0.021 mg/L	1	0.003	0.020			2/21/24 21:56:00	N	IV
2401306-001	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	0.0030 mg/L U	1	0.0002	0.0030			2/21/24 21:56:00	N	IV
2401306-001	Boron, Total	N/A		Water	0.06 ppm	50 mL	0.06 mg/L J	1	0.02	0.20			2/21/24 21:56:00	N	IV
2401306-001	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0004	0.0050			2/21/24 21:56:00	N	IV
2401306-001	Calcium, Total	N/A		Water	98.99 ppm	50 mL	99.0 mg/L	1	0.3	1.0			2/21/24 21:56:00	N	IV
2401306-001	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.002 mg/L J	1	0.002	0.010			2/21/24 21:56:00	N	IV
2401306-001	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.0009	0.050			2/21/24 21:56:00	N	IV
2401306-001	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.004	0.020			2/21/24 21:56:00	N	IV
2401306-001	Iron, Total	N/A		Water	0.06 ppm	50 mL	0.10 mg/L U	1	0.07	0.10			2/21/24 21:56:00	N	IV
2401306-001	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			2/21/24 21:56:00	N	IV
2401306-001	Magnesium, Total	N/A		Water	69.15 ppm	50 mL	69.2 mg/L	1	0.03	1.0			2/21/24 21:56:00	N	IV
2401306-001	Manganese, Total	N/A		Water	0.01 ppm	50 mL	0.006 mg/L J	1	0.004	0.010			2/21/24 21:56:00	N	IV
2401306-001	Molybdenum, Total	N/A		Water	0.01 ppm	50 mL	0.006 mg/L J	1	0.003	0.025			2/21/24 21:56:00	N	IV
2401306-001	Nickel, Total	N/A		Water	0.00 ppm	50 mL	0.040 mg/L U	1	0.003	0.040			2/21/24 21:56:00	N	IV
2401306-001	Potassium, Total	N/A		Water	3.14 ppm	50 mL	3.1 mg/L	1	0.4	2.0			2/21/24 21:56:00	N	IV
2401306-001	Selenium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.007	0.010			2/21/24 21:56:00	N	IV
2401306-001	Silver, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.0006	0.010			2/21/24 21:56:00	N	IV
2401306-001	Sodium, Total	N/A		Water	38.16 ppm	50 mL	38.2 mg/L	1	0.3	1.0			2/21/24 21:56:00	N	IV
2401306-001	Strontium, Total	N/A		Water	2.35 ppm	50 mL	2.35 mg/L	1	0.002	0.10			2/21/24 21:56:00	N	IV
2401306-001	Tin, Total	N/A		Water	0.00 ppm	50 mL	0.50 mg/L U	1	0.008	0.50			2/21/24 21:56:00	N	IV
2401306-001	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	0.004 mg/L J	1	0.0007	0.050			2/21/24 21:56:00	N	IV
2401306-001	Zinc, Total	N/A		Water	0.01 ppm	50 mL	0.009 mg/L J	1	0.003	0.020			2/21/24 21:56:00	N	IV
2401306-002	Aluminum, Total	N/A		Water	0.02 ppm	50 mL	0.10 mg/L U	1	0.03	0.10			2/21/24 21:59:00	N	IV
2401306-002	Barium, Total	N/A		Water	0.02 ppm	50 mL	0.021 mg/L	1	0.003	0.020			2/21/24 21:59:00	N	IV
2401306-002	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	0.0030 mg/L U	1	0.0002	0.0030			2/21/24 21:59:00	N	IV
2401306-002	Boron, Total	N/A		Water	0.06 ppm	50 mL	0.06 mg/L J	1	0.02	0.20			2/21/24 21:59:00	N	IV
2401306-002	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0004	0.0050			2/21/24 21:59:00	N	IV
2401306-002	Calcium, Total	N/A		Water	97.67 ppm	50 mL	97.7 mg/L	1	0.3	1.0			2/21/24 21:59:00	N	IV
2401306-002	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.002 mg/L J	1	0.002	0.010			2/21/24 21:59:00	N	IV
2401306-002	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.0009	0.050			2/21/24 21:59:00	N	IV
2401306-002	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.004	0.020			2/21/24 21:59:00	N	IV
2401306-002	Iron, Total	N/A		Water	0.05 ppm	50 mL	0.10 mg/L U	1	0.07	0.10			2/21/24 21:59:00	N	IV
2401306-002	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			2/21/24 21:59:00	N	IV
2401306-002	Magnesium, Total	N/A		Water	68.26 ppm	50 mL	68.3 mg/L	1	0.03	1.0			2/21/24 21:59:00	N	IV
2401306-002	Manganese, Total	N/A		Water	0.00 ppm	50 mL	0.004 mg/L J	1	0.004	0.010			2/21/24 21:59:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833056 **Method/Testcode:** 6010C/Mo T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2401306-002	Molybdenum, Total	N/A		Water	0.01 ppm	50 mL	0.006 mg/L J	1	0.003	0.025			2/21/24 21:59:00	N	IV
2401306-002	Nickel, Total	N/A		Water	0.00 ppm	50 mL	0.040 mg/L U	1	0.003	0.040			2/21/24 21:59:00	N	IV
2401306-002	Potassium, Total	N/A		Water	3.11 ppm	50 mL	3.1 mg/L	1	0.4	2.0			2/21/24 21:59:00	N	IV
2401306-002	Selenium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.007	0.010			2/21/24 21:59:00	N	IV
2401306-002	Silver, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.0006	0.010			2/21/24 21:59:00	N	IV
2401306-002	Sodium, Total	N/A		Water	37.69 ppm	50 mL	37.7 mg/L	1	0.3	1.0			2/21/24 21:59:00	N	IV
2401306-002	Strontium, Total	N/A		Water	2.32 ppm	50 mL	2.32 mg/L	1	0.002	0.10			2/21/24 21:59:00	N	IV
2401306-002	Tin, Total	N/A		Water	0.00 ppm	50 mL	0.50 mg/L U	1	0.008	0.50			2/21/24 21:59:00	N	IV
2401306-002	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	0.004 mg/L J	1	0.0007	0.050			2/21/24 21:59:00	N	IV
2401306-002	Zinc, Total	N/A		Water	0.01 ppm	50 mL	0.009 mg/L J	1	0.003	0.020			2/21/24 21:59:00	N	IV
2401306-007	Aluminum, Total	N/A		Water	0.01 ppm	50 mL	0.10 mg/L U	1	0.03	0.10			2/21/24 22:03:00	N	IV
2401306-007	Barium, Total	N/A		Water	0.03 ppm	50 mL	0.028 mg/L	1	0.003	0.020			2/21/24 22:03:00	N	IV
2401306-007	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	0.0030 mg/L U	1	0.0002	0.0030			2/21/24 22:03:00	N	IV
2401306-007	Boron, Total	N/A		Water	0.09 ppm	50 mL	0.09 mg/L J	1	0.02	0.20			2/21/24 22:03:00	N	IV
2401306-007	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0004	0.0050			2/21/24 22:03:00	N	IV
2401306-007	Calcium, Total	N/A		Water	134.72 ppm	50 mL	135 mg/L	1	0.3	1.0			2/21/24 22:03:00	N	IV
2401306-007	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			2/21/24 22:03:00	N	IV
2401306-007	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.0009	0.050			2/21/24 22:03:00	N	IV
2401306-007	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.004	0.020			2/21/24 22:03:00	N	IV
2401306-007	Iron, Total	N/A		Water	0.01 ppm	50 mL	0.10 mg/L U	1	0.07	0.10			2/21/24 22:03:00	N	IV
2401306-007	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			2/21/24 22:03:00	N	IV
2401306-007	Magnesium, Total	N/A		Water	67.85 ppm	50 mL	67.9 mg/L	1	0.03	1.0			2/21/24 22:03:00	N	IV
2401306-007	Manganese, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.004	0.010			2/21/24 22:03:00	N	IV
2401306-007	Molybdenum, Total	N/A		Water	0.01 ppm	50 mL	0.01 mg/L J	1	0.003	0.025			2/21/24 22:03:00	N	IV
2401306-007	Nickel, Total	N/A		Water	0.00 ppm	50 mL	0.040 mg/L U	1	0.003	0.040			2/21/24 22:03:00	N	IV
2401306-007	Potassium, Total	N/A		Water	4.04 ppm	50 mL	4.0 mg/L	1	0.4	2.0			2/21/24 22:03:00	N	IV
2401306-007	Selenium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.007	0.010			2/21/24 22:03:00	N	IV
2401306-007	Silver, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.0006	0.010			2/21/24 22:03:00	N	IV
2401306-007	Sodium, Total	N/A		Water	43.94 ppm	50 mL	43.9 mg/L	1	0.3	1.0			2/21/24 22:03:00	N	IV
2401306-007	Strontium, Total	N/A		Water	2.24 ppm	50 mL	2.24 mg/L	1	0.002	0.10			2/21/24 22:03:00	N	IV
2401306-007	Tin, Total	N/A		Water	0.00 ppm	50 mL	0.50 mg/L U	1	0.008	0.50			2/21/24 22:03:00	N	IV
2401306-007	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	0.001 mg/L J	1	0.0007	0.050			2/21/24 22:03:00	N	IV
2401306-007	Zinc, Total	N/A		Water	0.03 ppm	50 mL	0.028 mg/L	1	0.003	0.020			2/21/24 22:03:00	N	IV
2401306-008	Aluminum, Total	N/A		Water	0.01 ppm	50 mL	0.10 mg/L U	1	0.03	0.10			2/21/24 22:06:00	N	IV
2401306-008	Barium, Total	N/A		Water	0.04 ppm	50 mL	0.041 mg/L	1	0.003	0.020			2/21/24 22:06:00	N	IV
2401306-008	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	0.0030 mg/L U	1	0.0002	0.0030			2/21/24 22:06:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833056 **Method/Testcode:** 6010C/B T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2401306-008	Boron, Total	N/A		Water	0.14 ppm	50 mL	0.14 mg/L J	1	0.02	0.20			2/21/24 22:06:00	N	IV
2401306-008	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0004	0.0050			2/21/24 22:06:00	N	IV
2401306-008	Calcium, Total	N/A		Water	83.65 ppm	50 mL	83.7 mg/L	1	0.3	1.0			2/21/24 22:06:00	N	IV
2401306-008	Chromium, Total	N/A		Water	0.06 ppm	50 mL	0.059 mg/L	1	0.002	0.010			2/21/24 22:06:00	N	IV
2401306-008	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	0.002 mg/L J	1	0.0009	0.050			2/21/24 22:06:00	N	IV
2401306-008	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.004	0.020			2/21/24 22:06:00	N	IV
2401306-008	Iron, Total	N/A		Water	0.67 ppm	50 mL	0.67 mg/L	1	0.07	0.10			2/21/24 22:06:00	N	IV
2401306-008	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			2/21/24 22:06:00	N	IV
2401306-008	Magnesium, Total	N/A		Water	55.70 ppm	50 mL	55.7 mg/L	1	0.03	1.0			2/21/24 22:06:00	N	IV
2401306-008	Manganese, Total	N/A		Water	0.02 ppm	50 mL	0.022 mg/L	1	0.004	0.010			2/21/24 22:06:00	N	IV
2401306-008	Molybdenum, Total	N/A		Water	0.01 ppm	50 mL	0.009 mg/L J	1	0.003	0.025			2/21/24 22:06:00	N	IV
2401306-008	Nickel, Total	N/A		Water	0.06 ppm	50 mL	0.063 mg/L	1	0.003	0.040			2/21/24 22:06:00	N	IV
2401306-008	Potassium, Total	N/A		Water	2.49 ppm	50 mL	2.5 mg/L	1	0.4	2.0			2/21/24 22:06:00	N	IV
2401306-008	Selenium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.007	0.010			2/21/24 22:06:00	N	IV
2401306-008	Silver, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.0006	0.010			2/21/24 22:06:00	N	IV
2401306-008	Sodium, Total	N/A		Water	51.57 ppm	50 mL	51.6 mg/L	1	0.3	1.0			2/21/24 22:06:00	N	IV
2401306-008	Strontium, Total	N/A		Water	2.09 ppm	50 mL	2.09 mg/L	1	0.002	0.10			2/21/24 22:06:00	N	IV
2401306-008	Tin, Total	N/A		Water	0.00 ppm	50 mL	0.50 mg/L U	1	0.008	0.50			2/21/24 22:06:00	N	IV
2401306-008	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	0.002 mg/L J	1	0.0007	0.050			2/21/24 22:06:00	N	IV
2401306-008	Zinc, Total	N/A		Water	0.01 ppm	50 mL	0.006 mg/L J	1	0.003	0.020			2/21/24 22:06:00	N	IV
2401306-009	Aluminum, Total	N/A		Water	0.01 ppm	50 mL	0.10 mg/L U	1	0.03	0.10			2/21/24 22:09:00	N	IV
2401306-009	Barium, Total	N/A		Water	0.04 ppm	50 mL	0.041 mg/L	1	0.003	0.020			2/21/24 22:09:00	N	IV
2401306-009	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	0.0030 mg/L U	1	0.0002	0.0030			2/21/24 22:09:00	N	IV
2401306-009	Boron, Total	N/A		Water	0.14 ppm	50 mL	0.14 mg/L J	1	0.02	0.20			2/21/24 22:09:00	N	IV
2401306-009	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0004	0.0050			2/21/24 22:09:00	N	IV
2401306-009	Calcium, Total	N/A		Water	83.56 ppm	50 mL	83.6 mg/L	1	0.3	1.0			2/21/24 22:09:00	N	IV
2401306-009	Chromium, Total	N/A		Water	0.06 ppm	50 mL	0.058 mg/L	1	0.002	0.010			2/21/24 22:09:00	N	IV
2401306-009	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	0.002 mg/L J	1	0.0009	0.050			2/21/24 22:09:00	N	IV
2401306-009	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.004	0.020			2/21/24 22:09:00	N	IV
2401306-009	Iron, Total	N/A		Water	0.69 ppm	50 mL	0.69 mg/L	1	0.07	0.10			2/21/24 22:09:00	N	IV
2401306-009	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			2/21/24 22:09:00	N	IV
2401306-009	Magnesium, Total	N/A		Water	55.68 ppm	50 mL	55.7 mg/L	1	0.03	1.0			2/21/24 22:09:00	N	IV
2401306-009	Manganese, Total	N/A		Water	0.02 ppm	50 mL	0.018 mg/L	1	0.004	0.010			2/21/24 22:09:00	N	IV
2401306-009	Molybdenum, Total	N/A		Water	0.01 ppm	50 mL	0.009 mg/L J	1	0.003	0.025			2/21/24 22:09:00	N	IV
2401306-009	Nickel, Total	N/A		Water	0.06 ppm	50 mL	0.062 mg/L	1	0.003	0.040			2/21/24 22:09:00	N	IV
2401306-009	Potassium, Total	N/A		Water	2.50 ppm	50 mL	2.5 mg/L	1	0.4	2.0			2/21/24 22:09:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833056 **Method/Testcode:** 6010C/Se T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R2401306-009	Selenium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.007	0.010			2/21/24 22:09:00	N	IV
R2401306-009	Silver, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.0006	0.010			2/21/24 22:09:00	N	IV
R2401306-009	Sodium, Total	N/A		Water	51.46 ppm	50 mL	51.5 mg/L	1	0.3	1.0			2/21/24 22:09:00	N	IV
R2401306-009	Strontium, Total	N/A		Water	2.09 ppm	50 mL	2.09 mg/L	1	0.002	0.10			2/21/24 22:09:00	N	IV
R2401306-009	Tin, Total	N/A		Water	0.00 ppm	50 mL	0.50 mg/L U	1	0.008	0.50			2/21/24 22:09:00	N	IV
R2401306-009	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	0.002 mg/L J	1	0.0007	0.050			2/21/24 22:09:00	N	IV
R2401306-009	Zinc, Total	N/A		Water	0.00 ppm	50 mL	0.005 mg/L J	1	0.003	0.020			2/21/24 22:09:00	N	IV
R2401306-010	Aluminum, Total	N/A		Water	0.00 ppm	50 mL	0.10 mg/L U	1	0.03	0.10			2/21/24 22:19:00	N	IV
R2401306-010	Barium, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.003	0.020			2/21/24 22:19:00	N	IV
R2401306-010	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	0.0030 mg/L U	1	0.0002	0.0030			2/21/24 22:19:00	N	IV
R2401306-010	Boron, Total	N/A		Water	0.00 ppm	50 mL	0.20 mg/L U	1	0.02	0.20			2/21/24 22:19:00	N	IV
R2401306-010	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0004	0.0050			2/21/24 22:19:00	N	IV
R2401306-010	Calcium, Total	N/A		Water	0.02 ppm	50 mL	1.0 mg/L U	1	0.3	1.0			2/21/24 22:19:00	N	IV
R2401306-010	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			2/21/24 22:19:00	N	IV
R2401306-010	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.0009	0.050			2/21/24 22:19:00	N	IV
R2401306-010	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.004	0.020			2/21/24 22:19:00	N	IV
R2401306-010	Iron, Total	N/A		Water	0.00 ppm	50 mL	0.10 mg/L U	1	0.07	0.10			2/21/24 22:19:00	N	IV
R2401306-010	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			2/21/24 22:19:00	N	IV
R2401306-010	Magnesium, Total	N/A		Water	0.00 ppm	50 mL	1.0 mg/L U	1	0.03	1.0			2/21/24 22:19:00	N	IV
R2401306-010	Manganese, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.004	0.010			2/21/24 22:19:00	N	IV
R2401306-010	Molybdenum, Total	N/A		Water	0.00 ppm	50 mL	0.025 mg/L U	1	0.003	0.025			2/21/24 22:19:00	N	IV
R2401306-010	Nickel, Total	N/A		Water	0.00 ppm	50 mL	0.040 mg/L U	1	0.003	0.040			2/21/24 22:19:00	N	IV
R2401306-010	Potassium, Total	N/A		Water	0.01 ppm	50 mL	2.0 mg/L U	1	0.4	2.0			2/21/24 22:19:00	N	IV
R2401306-010	Selenium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.007	0.010			2/21/24 22:19:00	N	IV
R2401306-010	Silver, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.0006	0.010			2/21/24 22:19:00	N	IV
R2401306-010	Sodium, Total	N/A		Water	0.07 ppm	50 mL	1.0 mg/L U	1	0.3	1.0			2/21/24 22:19:00	N	IV
R2401306-010	Strontium, Total	N/A		Water	0.00 ppm	50 mL	0.10 mg/L U	1	0.002	0.10			2/21/24 22:19:00	N	IV
R2401306-010	Tin, Total	N/A		Water	0.00 ppm	50 mL	0.50 mg/L U	1	0.008	0.50			2/21/24 22:19:00	N	IV
R2401306-010	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.0007	0.050			2/21/24 22:19:00	N	IV
R2401306-010	Zinc, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.003	0.020			2/21/24 22:19:00	N	IV
R2401340-001	Chromium, Total	N/A		Water	0.02 ppm	50 mL	23 µg/L	1	2	10			2/21/24 22:22:00	Y	IV
RQ2401790-03	Chromium, Total	MS	R2401340-001	Water	0.22 ppm	50 mL	223 µg/L	1	2	10	100		2/21/24 22:25:00	N	IV
RQ2401790-04	Chromium, Total	DMS	R2401340-001	Water	0.22 ppm	50 mL	222 µg/L	1	2	10	100	<1	2/21/24 22:28:00	N	IV
R2401340-002	Chromium, Total	N/A		Water	0.02 ppm	50 mL	22 µg/L	1	2	10			2/21/24 22:38:00	N	IV
R2401340-003	Chromium, Total	N/A		Water	0.14 ppm	50 mL	143 µg/L	1	2	10			2/21/24 22:41:00	N	IV
R2401340-004	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			2/21/24 22:45:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833056 **Method/Testcode:** 6010C/Cr T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R2401340-005	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			2/21/24 22:48:00	N	IV
R2401303-001	Calcium, Total	N/A		Water	28.53 ppm	50 mL	285000 µg/L	10	3000	10000			2/21/24 22:57:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833057 **Method/Testcode:** 6010C/Al T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2401818-01	Aluminum, Total	MB		Soil	0.00 ppm	0.5 g	20 mg/Kg U	1	12	20			2/21/24 23:27:00	N	II
KQ2401818-01	Antimony, Total	MB		Soil	0.00 ppm	0.5 g	6.0 mg/Kg U	1	0.6	6.0			2/21/24 23:27:00	N	II
KQ2401818-01	Arsenic, Total	MB		Soil	0.00 ppm	0.5 g	1.0 mg/Kg U	1	0.7	1.0			2/21/24 23:27:00	N	II
KQ2401818-01	Barium, Total	MB		Soil	0.00 ppm	0.5 g	2.0 mg/Kg U	1	0.3	2.0			2/21/24 23:27:00	N	II
KQ2401818-01	Beryllium, Total	MB		Soil	0.00 ppm	0.5 g	0.30 mg/Kg U	1	0.03	0.30			2/21/24 23:27:00	N	II
KQ2401818-01	Boron, Total	MB		Soil	0.00 ppm	0.5 g	20 mg/Kg U	1	2	20			2/21/24 23:27:00	N	II
KQ2401818-01	Cadmium, Total	MB		Soil	0.00 ppm	0.5 g	0.50 mg/Kg U	1	0.09	0.50			2/21/24 23:27:00	N	II
KQ2401818-01	Calcium, Total	MB		Soil	0.01 ppm	0.5 g	100 mg/Kg U	1	40	100			2/21/24 23:27:00	N	II
KQ2401818-01	Chromium, Total	MB		Soil	0.00 ppm	0.5 g	1.0 mg/Kg U	1	0.4	1.0			2/21/24 23:27:00	N	II
KQ2401818-01	Cobalt, Total	MB		Soil	0.00 ppm	0.5 g	5.0 mg/Kg U	1	0.09	5.0			2/21/24 23:27:00	N	II
KQ2401818-01	Copper, Total	MB		Soil	0.00 ppm	0.5 g	2.0 mg/Kg U	1	0.3	2.0			2/21/24 23:27:00	N	II
KQ2401818-01	Iron, Total	MB		Soil	0.01 ppm	0.5 g	20 mg/Kg U	1	13	20			2/21/24 23:27:00	N	II
KQ2401818-01	Lead, Total	MB		Soil	0.00 ppm	0.5 g	5.0 mg/Kg U	1	0.4	5.0			2/21/24 23:27:00	N	II
KQ2401818-01	Magnesium, Total	MB		Soil	0.00 ppm	0.5 g	100 mg/Kg U	1	20	100			2/21/24 23:27:00	N	II
KQ2401818-01	Manganese, Total	MB		Soil	0.00 ppm	0.5 g	2.0 mg/Kg U	1	0.5	2.0			2/21/24 23:27:00	N	II
KQ2401818-01	Molybdenum, Total	MB		Soil	0.00 ppm	0.5 g	2.5 mg/Kg U	1	0.6	2.5			2/21/24 23:27:00	N	II
KQ2401818-01	Nickel, Total	MB		Soil	0.00 ppm	0.5 g	4.0 mg/Kg U	1	0.7	4.0			2/21/24 23:27:00	N	II
KQ2401818-01	Potassium, Total	MB		Soil	0.01 ppm	0.5 g	200 mg/Kg U	1	50	200			2/21/24 23:27:00	N	II
KQ2401818-01	Selenium, Total	MB		Soil	0.00 ppm	0.5 g	1.0 mg/Kg U	1	0.6	1.0			2/21/24 23:27:00	N	II
KQ2401818-01	Silver, Total	MB		Soil	0.00 ppm	0.5 g	1.0 mg/Kg U	1	0.09	1.0			2/21/24 23:27:00	N	II
KQ2401818-01	Sodium, Total	MB		Soil	0.02 ppm	0.5 g	100 mg/Kg U	1	20	100			2/21/24 23:27:00	N	II
KQ2401818-01	Thallium, Total	MB		Soil	0.00 ppm	0.5 g	1.0 mg/Kg U	1	0.7	1.0			2/21/24 23:27:00	N	II
KQ2401818-01	Vanadium, Total	MB		Soil	0.00 ppm	0.5 g	5.0 mg/Kg U	1	0.07	5.0			2/21/24 23:27:00	N	II
KQ2401818-01	Zinc, Total	MB		Soil	0.00 ppm	0.5 g	2.0 mg/Kg U	1	1.4	2.0			2/21/24 23:27:00	N	II
KQ2401818-02	Aluminum, Total	LCS		Soil	1.92 ppm	0.5 g	192 mg/Kg	1	12	20	96		2/21/24 23:30:00	N	II
KQ2401818-02	Antimony, Total	LCS		Soil	0.48 ppm	0.5 g	48.2 mg/Kg	1	0.6	6.0	96		2/21/24 23:30:00	N	II
KQ2401818-02	Arsenic, Total	LCS		Soil	0.04 ppm	0.5 g	3.75 mg/Kg	1	0.7	1.0	94		2/21/24 23:30:00	N	II
KQ2401818-02	Barium, Total	LCS		Soil	2.05 ppm	0.5 g	205 mg/Kg	1	0.3	2.0	102		2/21/24 23:30:00	N	II
KQ2401818-02	Beryllium, Total	LCS		Soil	0.05 ppm	0.5 g	4.81 mg/Kg	1	0.03	0.30	96		2/21/24 23:30:00	N	II
KQ2401818-02	Boron, Total	LCS		Soil	0.95 ppm	0.5 g	95.4 mg/Kg	1	2	20	95		2/21/24 23:30:00	N	II
KQ2401818-02	Cadmium, Total	LCS		Soil	0.05 ppm	0.5 g	5.08 mg/Kg	1	0.09	0.50	102		2/21/24 23:30:00	N	II
KQ2401818-02	Calcium, Total	LCS		Soil	2.04 ppm	0.5 g	204 mg/Kg	1	40	100	102		2/21/24 23:30:00	N	II
KQ2401818-02	Chromium, Total	LCS		Soil	0.20 ppm	0.5 g	20.0 mg/Kg	1	0.4	1.0	100		2/21/24 23:30:00	N	II
KQ2401818-02	Cobalt, Total	LCS		Soil	0.52 ppm	0.5 g	51.5 mg/Kg	1	0.09	5.0	103		2/21/24 23:30:00	N	II
KQ2401818-02	Copper, Total	LCS		Soil	0.25 ppm	0.5 g	25.3 mg/Kg	1	0.3	2.0	101		2/21/24 23:30:00	N	II
KQ2401818-02	Iron, Total	LCS		Soil	1.01 ppm	0.5 g	101 mg/Kg	1	13	20	101		2/21/24 23:30:00	N	II

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Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833057 **Method/Testcode:** 6010C/Pb T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2401818-02	Lead, Total	LCS		Soil	0.51 ppm	0.5 g	50.8 mg/Kg	1	0.4	5.0	102		2/21/24 23:30:00	N	II
KQ2401818-02	Magnesium, Total	LCS		Soil	1.91 ppm	0.5 g	191 mg/Kg	1	20	100	96		2/21/24 23:30:00	N	II
KQ2401818-02	Manganese, Total	LCS		Soil	0.50 ppm	0.5 g	49.5 mg/Kg	1	0.5	2.0	99		2/21/24 23:30:00	N	II
KQ2401818-02	Molybdenum, Total	LCS		Soil	0.50 ppm	0.5 g	49.8 mg/Kg	1	0.6	2.5	100		2/21/24 23:30:00	N	II
KQ2401818-02	Nickel, Total	LCS		Soil	0.52 ppm	0.5 g	52.5 mg/Kg	1	0.7	4.0	105		2/21/24 23:30:00	N	II
KQ2401818-02	Potassium, Total	LCS		Soil	18.59 ppm	0.5 g	1860 mg/Kg	1	50	200	93		2/21/24 23:30:00	N	II
KQ2401818-02	Selenium, Total	LCS		Soil	0.93 ppm	0.5 g	92.7 mg/Kg	1	0.6	1.0	92		2/21/24 23:30:00	N	II
KQ2401818-02	Silver, Total	LCS		Soil	0.05 ppm	0.5 g	5.04 mg/Kg	1	0.09	1.0	101		2/21/24 23:30:00	N	II
KQ2401818-02	Sodium, Total	LCS		Soil	19.21 ppm	0.5 g	1920 mg/Kg	1	20	100	96		2/21/24 23:30:00	N	II
KQ2401818-02	Thallium, Total	LCS		Soil	1.99 ppm	0.5 g	199 mg/Kg	1	0.7	1.0	100		2/21/24 23:30:00	N	II
KQ2401818-02	Vanadium, Total	LCS		Soil	0.50 ppm	0.5 g	49.5 mg/Kg	1	0.07	5.0	99		2/21/24 23:30:00	N	II
KQ2401818-02	Zinc, Total	LCS		Soil	0.50 ppm	0.5 g	49.8 mg/Kg	1	1.4	2.0	100		2/21/24 23:30:00	N	II
K2401222-001	Arsenic, Total	N/A		Soil	0.35 ppm	0.5200 g	33.4 mg/Kg #	1	0.70	0.96			2/21/24 23:33:00	N	II
K2401222-001	Cadmium, Total	N/A		Soil	0.00 ppm	0.5200 g	0.48 mg/Kg # U	1	0.09	0.48			2/21/24 23:33:00	N	II
K2401222-001	Chromium, Total	N/A		Soil	0.09 ppm	0.5200 g	9.13 mg/Kg #	1	0.35	0.96			2/21/24 23:33:00	N	II
K2401222-001	Copper, Total	N/A		Soil	1.07 ppm	0.5200 g	103 mg/Kg #	1	0.3	1.9			2/21/24 23:33:00	N	II
K2401222-001	Lead, Total	N/A		Soil	0.05 ppm	0.5200 g	4.8 mg/Kg # U	1	0.4	4.8			2/21/24 23:33:00	N	II
K2401222-001	Molybdenum, Total	N/A		Soil	0.02 ppm	0.5200 g	2.4 mg/Kg # U	1	0.6	2.4			2/21/24 23:33:00	N	II
K2401222-001	Nickel, Total	N/A		Soil	0.02 ppm	0.5200 g	3.8 mg/Kg # U	1	0.7	3.8			2/21/24 23:33:00	N	II
K2401222-001	Selenium, Total	N/A		Soil	0.01 ppm	0.5200 g	0.96 mg/Kg # U	1	0.54	0.96			2/21/24 23:33:00	N	II
K2401222-001	Zinc, Total	N/A		Soil	1.55 ppm	0.5200 g	149 mg/Kg #	1	1.4	1.9			2/21/24 23:33:00	N	II
K2401252-003	Arsenic, Total	N/A		Sludge, Solid	0.02 ppm	0.5500 g	1.40 mg/Kg #	1	0.70	0.91			2/21/24 23:36:00	N	II
K2401252-003	Cadmium, Total	N/A		Sludge, Solid	0.01 ppm	0.5500 g	1.00 mg/Kg #	1	0.09	0.45			2/21/24 23:36:00	N	II
K2401252-003	Chromium, Total	N/A		Sludge, Solid	0.13 ppm	0.5500 g	11.8 mg/Kg #	1	0.35	0.91			2/21/24 23:36:00	N	II
K2401252-003	Lead, Total	N/A		Sludge, Solid	0.19 ppm	0.5500 g	16.9 mg/Kg #	1	0.4	4.5			2/21/24 23:36:00	N	II
K2401252-003	Molybdenum, Total	N/A		Sludge, Solid	0.08 ppm	0.5500 g	7.4 mg/Kg #	1	0.6	2.3			2/21/24 23:36:00	N	II
K2401252-003	Nickel, Total	N/A		Sludge, Solid	0.07 ppm	0.5500 g	6.2 mg/Kg #	1	0.7	3.6			2/21/24 23:36:00	N	II
K2401252-003	Potassium, Total	N/A		Sludge, Solid	20.40 ppm	0.5500 g	1850 mg/Kg #	1	50	180			2/21/24 23:36:00	N	II
K2401252-003	Selenium, Total	N/A		Sludge, Solid	0.04 ppm	0.5500 g	3.91 mg/Kg #	1	0.54	0.91			2/21/24 23:36:00	N	II
K2401252-004	Arsenic, Total	N/A		Sludge, Solid	0.02 ppm	0.5400 g	1.75 mg/Kg #	1	0.70	0.93			2/21/24 23:39:00	N	II
K2401252-004	Cadmium, Total	N/A		Sludge, Solid	0.01 ppm	0.5400 g	1.15 mg/Kg #	1	0.09	0.46			2/21/24 23:39:00	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833057 **Method/Testcode:** 6010C/Cr T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2401252-004	Chromium, Total	N/A		Sludge, Solid	0.13 ppm	0.5400 g	12.2 mg/Kg #	1	0.35	0.93			2/21/24 23:39:00	N	II
2401252-004	Lead, Total	N/A		Sludge, Solid	0.18 ppm	0.5400 g	16.6 mg/Kg #	1	0.4	4.6			2/21/24 23:39:00	N	II
2401252-004	Molybdenum, Total	N/A		Sludge, Solid	0.08 ppm	0.5400 g	7.3 mg/Kg #	1	0.6	2.3			2/21/24 23:39:00	N	II
2401252-004	Nickel, Total	N/A		Sludge, Solid	0.07 ppm	0.5400 g	6.3 mg/Kg #	1	0.7	3.7			2/21/24 23:39:00	N	II
2401252-004	Potassium, Total	N/A		Sludge, Solid	23.93 ppm	0.5400 g	2220 mg/Kg #	1	50	190			2/21/24 23:39:00	N	II
2401252-004	Selenium, Total	N/A		Sludge, Solid	0.04 ppm	0.5400 g	3.97 mg/Kg #	1	0.54	0.93			2/21/24 23:39:00	N	II
2401281-001	Cadmium, Total	N/A		Soil	0.02 ppm	0.5100 g	2.00 mg/Kg	1	0.12	0.65			2/21/24 23:43:00	N	II
2401281-001	Lead, Total	N/A		Soil	0.88 ppm	0.5100 g	114 mg/Kg	1	0.6	6.5			2/21/24 23:43:00	N	II
2401312-001	Aluminum, Total	N/A		Soil	105.71 ppm	0.5300 g	9970 mg/Kg #	1	12	19			2/21/24 23:46:00	N	IV
2401312-001	Antimony, Total	N/A		Soil	0.01 ppm	0.5300 g	1.2 mg/Kg # J	1	0.6	5.7			2/21/24 23:46:00	N	IV
2401312-001	Arsenic, Total	N/A		Soil	0.10 ppm	0.5300 g	9.90 mg/Kg #	1	0.70	0.94			2/21/24 23:46:00	N	IV
2401312-001	Barium, Total	N/A		Soil	1.89 ppm	0.5300 g	178 mg/Kg #	1	0.3	1.9			2/21/24 23:46:00	N	IV
2401312-001	Beryllium, Total	N/A		Soil	0.01 ppm	0.5300 g	0.47 mg/Kg #	1	0.03	0.28			2/21/24 23:46:00	N	IV
2401312-001	Boron, Total	N/A		Soil	0.27 ppm	0.5300 g	26 mg/Kg #	1	2	19			2/21/24 23:46:00	N	IV
2401312-001	Cadmium, Total	N/A		Soil	0.03 ppm	0.5300 g	2.37 mg/Kg #	1	0.09	0.47			2/21/24 23:46:00	N	IV
2401312-001	Calcium, Total	N/A		Soil	35.67 ppm	0.5300 g	3370 mg/Kg #	1	32	94			2/21/24 23:46:00	N	IV
2401312-001	Chromium, Total	N/A		Soil	0.18 ppm	0.5300 g	17.2 mg/Kg #	1	0.35	0.94			2/21/24 23:46:00	N	IV
2401312-001	Cobalt, Total	N/A		Soil	0.09 ppm	0.5300 g	8.6 mg/Kg #	1	0.09	4.7			2/21/24 23:46:00	N	IV
2401312-001	Copper, Total	N/A		Soil	0.21 ppm	0.5300 g	19.7 mg/Kg #	1	0.3	1.9			2/21/24 23:46:00	N	IV
2401312-001	Lead, Total	N/A		Soil	1.52 ppm	0.5300 g	143 mg/Kg #	1	0.4	4.7			2/21/24 23:46:00	N	IV
2401312-001	Magnesium, Total	N/A		Soil	29.43 ppm	0.5300 g	2780 mg/Kg #	1	13	94			2/21/24 23:46:00	N	IV
2401312-001	Manganese, Total	N/A		Soil	4.91 ppm	0.5300 g	463 mg/Kg #	1	0.5	1.9			2/21/24 23:46:00	N	IV
2401312-001	Nickel, Total	N/A		Soil	0.21 ppm	0.5300 g	19.5 mg/Kg #	1	0.7	3.8			2/21/24 23:46:00	N	IV
2401312-001	Potassium, Total	N/A		Soil	10.47 ppm	0.5300 g	990 mg/Kg #	1	50	190			2/21/24 23:46:00	N	IV
2401312-001	Selenium, Total	N/A		Soil	0.01 ppm	0.5300 g	1.03 mg/Kg #	1	0.54	0.94			2/21/24 23:46:00	N	IV
2401312-001	Silver, Total	N/A		Soil	0.00 ppm	0.5300 g	0.12 mg/Kg # J	1	0.09	0.94			2/21/24 23:46:00	N	IV
2401312-001	Sodium, Total	N/A		Soil	0.48 ppm	0.5300 g	45 mg/Kg # J	1	19	94			2/21/24 23:46:00	N	IV
2401312-001	Thallium, Total	N/A		Soil	0.00 ppm	0.5300 g	0.94 mg/Kg # U	1	0.65	0.94			2/21/24 23:46:00	N	IV
2401312-001	Vanadium, Total	N/A		Soil	0.20 ppm	0.5300 g	18.6 mg/Kg #	1	0.07	4.7			2/21/24 23:46:00	N	IV
2401312-001	Zinc, Total	N/A		Soil	1.92 ppm	0.5300 g	181 mg/Kg #	1	1.4	1.9			2/21/24 23:46:00	N	IV
2401333-001	Aluminum, Total	N/A		Soil	47.74 ppm	0.5300 g	4500 mg/Kg #	1	12	19			2/21/24 23:49:00	N	IV
2401333-001	Antimony, Total	N/A		Soil	0.00 ppm	0.5300 g	5.7 mg/Kg # U	1	0.6	5.7			2/21/24 23:49:00	N	IV
2401333-001	Arsenic, Total	N/A		Soil	0.02 ppm	0.5300 g	1.97 mg/Kg #	1	0.70	0.94			2/21/24 23:49:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833057 **Method/Testcode:** 6010C/Ba T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2401333-001	Barium, Total	N/A		Soil	0.29 ppm	0.5300 g	27.7 mg/Kg #	1	0.3	1.9			2/21/24 23:49:00	N	IV
2401333-001	Beryllium, Total	N/A		Soil	0.00 ppm	0.5300 g	0.26 mg/Kg # J	1	0.03	0.28			2/21/24 23:49:00	N	IV
2401333-001	Cadmium, Total	N/A		Soil	0.00 ppm	0.5300 g	0.47 mg/Kg # U	1	0.09	0.47			2/21/24 23:49:00	N	IV
2401333-001	Calcium, Total	N/A		Soil	11.32 ppm	0.5300 g	1070 mg/Kg #	1	32	94			2/21/24 23:49:00	N	IV
2401333-001	Chromium, Total	N/A		Soil	0.11 ppm	0.5300 g	10.0 mg/Kg #	1	0.35	0.94			2/21/24 23:49:00	N	IV
2401333-001	Cobalt, Total	N/A		Soil	0.07 ppm	0.5300 g	6.3 mg/Kg #	1	0.09	4.7			2/21/24 23:49:00	N	IV
2401333-001	Copper, Total	N/A		Soil	0.13 ppm	0.5300 g	11.8 mg/Kg #	1	0.3	1.9			2/21/24 23:49:00	N	IV
2401333-001	Lead, Total	N/A		Soil	0.14 ppm	0.5300 g	12.9 mg/Kg #	1	0.4	4.7			2/21/24 23:49:00	N	IV
2401333-001	Magnesium, Total	N/A		Soil	28.83 ppm	0.5300 g	2720 mg/Kg #	1	13	94			2/21/24 23:49:00	N	IV
2401333-001	Manganese, Total	N/A		Soil	2.97 ppm	0.5300 g	280 mg/Kg #	1	0.5	1.9			2/21/24 23:49:00	N	IV
2401333-001	Nickel, Total	N/A		Soil	0.56 ppm	0.5300 g	52.9 mg/Kg #	1	0.7	3.8			2/21/24 23:49:00	N	IV
2401333-001	Potassium, Total	N/A		Soil	5.68 ppm	0.5300 g	540 mg/Kg #	1	50	190			2/21/24 23:49:00	N	IV
2401333-001	Selenium, Total	N/A		Soil	0.00 ppm	0.5300 g	0.94 mg/Kg # U	1	0.54	0.94			2/21/24 23:49:00	N	IV
2401333-001	Silver, Total	N/A		Soil	0.00 ppm	0.5300 g	0.94 mg/Kg # U	1	0.09	0.94			2/21/24 23:49:00	N	IV
2401333-001	Sodium, Total	N/A		Soil	0.69 ppm	0.5300 g	65 mg/Kg # J	1	19	94			2/21/24 23:49:00	N	IV
2401333-001	Thallium, Total	N/A		Soil	-0.01 ppm	0.5300 g	0.94 mg/Kg # U	1	0.65	0.94			2/21/24 23:49:00	N	IV
2401333-001	Vanadium, Total	N/A		Soil	0.15 ppm	0.5300 g	14.5 mg/Kg #	1	0.07	4.7			2/21/24 23:49:00	N	IV
2401333-001	Zinc, Total	N/A		Soil	0.56 ppm	0.5300 g	52.5 mg/Kg #	1	1.4	1.9			2/21/24 23:49:00	N	IV
2401333-002	Aluminum, Total	N/A		Soil	75.07 ppm	0.5500 g	6820 mg/Kg #	1	12	18			2/21/24 23:52:00	N	IV
2401333-002	Antimony, Total	N/A		Soil	-0.01 ppm	0.5500 g	5.5 mg/Kg # U	1	0.6	5.5			2/21/24 23:52:00	N	IV
2401333-002	Arsenic, Total	N/A		Soil	0.03 ppm	0.5500 g	3.12 mg/Kg #	1	0.70	0.91			2/21/24 23:52:00	N	IV
2401333-002	Barium, Total	N/A		Soil	0.62 ppm	0.5500 g	56.7 mg/Kg #	1	0.3	1.8			2/21/24 23:52:00	N	IV
2401333-002	Beryllium, Total	N/A		Soil	0.00 ppm	0.5500 g	0.33 mg/Kg #	1	0.03	0.27			2/21/24 23:52:00	N	IV
2401333-002	Cadmium, Total	N/A		Soil	0.00 ppm	0.5500 g	0.45 mg/Kg # U	1	0.09	0.45			2/21/24 23:52:00	N	IV
2401333-002	Calcium, Total	N/A		Soil	13.16 ppm	0.5500 g	1200 mg/Kg #	1	32	91			2/21/24 23:52:00	N	IV
2401333-002	Chromium, Total	N/A		Soil	0.21 ppm	0.5500 g	18.8 mg/Kg #	1	0.35	0.91			2/21/24 23:52:00	N	IV
2401333-002	Cobalt, Total	N/A		Soil	0.08 ppm	0.5500 g	7.4 mg/Kg #	1	0.09	4.5			2/21/24 23:52:00	N	IV
2401333-002	Copper, Total	N/A		Soil	0.19 ppm	0.5500 g	17.5 mg/Kg #	1	0.3	1.8			2/21/24 23:52:00	N	IV
2401333-002	Lead, Total	N/A		Soil	0.60 ppm	0.5500 g	54.2 mg/Kg #	1	0.4	4.5			2/21/24 23:52:00	N	IV
2401333-002	Magnesium, Total	N/A		Soil	37.01 ppm	0.5500 g	3360 mg/Kg #	1	13	91			2/21/24 23:52:00	N	IV
2401333-002	Manganese, Total	N/A		Soil	3.11 ppm	0.5500 g	283 mg/Kg #	1	0.5	1.8			2/21/24 23:52:00	N	IV
2401333-002	Nickel, Total	N/A		Soil	0.81 ppm	0.5500 g	74.0 mg/Kg #	1	0.7	3.6			2/21/24 23:52:00	N	IV
2401333-002	Potassium, Total	N/A		Soil	8.30 ppm	0.5500 g	750 mg/Kg #	1	50	180			2/21/24 23:52:00	N	IV
2401333-002	Selenium, Total	N/A		Soil	0.01 ppm	0.5500 g	0.65 mg/Kg # J	1	0.54	0.91			2/21/24 23:52:00	N	IV
2401333-002	Silver, Total	N/A		Soil	0.00 ppm	0.5500 g	0.91 mg/Kg # U	1	0.09	0.91			2/21/24 23:52:00	N	IV
2401333-002	Sodium, Total	N/A		Soil	0.86 ppm	0.5500 g	79 mg/Kg # J	1	19	91			2/21/24 23:52:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833057 **Method/Testcode:** 6010C/Tl T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R2401333-002	Thallium, Total	N/A		Soil	-0.01 ppm	0.5500 g	0.91 mg/Kg # U	1	0.65	0.91			2/21/24 23:52:00	N	IV
R2401333-002	Vanadium, Total	N/A		Soil	0.23 ppm	0.5500 g	21.0 mg/Kg #	1	0.07	4.5			2/21/24 23:52:00	N	IV
R2401333-002	Zinc, Total	N/A		Soil	0.68 ppm	0.5500 g	61.4 mg/Kg #	1	1.4	1.8			2/21/24 23:52:00	N	IV
R2401333-003	Aluminum, Total	N/A		Soil	76.51 ppm	0.5400 g	7080 mg/Kg #	1	12	19			2/21/24 23:56:00	Y	IV
R2401333-003	Antimony, Total	N/A		Soil	0.00 ppm	0.5400 g	5.6 mg/Kg # U	1	0.6	5.6			2/21/24 23:56:00	Y	IV
R2401333-003	Arsenic, Total	N/A		Soil	0.03 ppm	0.5400 g	3.03 mg/Kg #	1	0.70	0.93			2/21/24 23:56:00	Y	IV
R2401333-003	Barium, Total	N/A		Soil	0.62 ppm	0.5400 g	57.5 mg/Kg #	1	0.3	1.9			2/21/24 23:56:00	Y	IV
R2401333-003	Beryllium, Total	N/A		Soil	0.00 ppm	0.5400 g	0.33 mg/Kg #	1	0.03	0.28			2/21/24 23:56:00	Y	IV
R2401333-003	Cadmium, Total	N/A		Soil	0.00 ppm	0.5400 g	0.46 mg/Kg # U	1	0.09	0.46			2/21/24 23:56:00	Y	IV
R2401333-003	Calcium, Total	N/A		Soil	12.88 ppm	0.5400 g	1190 mg/Kg #	1	32	93			2/21/24 23:56:00	Y	IV
R2401333-003	Chromium, Total	N/A		Soil	0.18 ppm	0.5400 g	16.4 mg/Kg #	1	0.35	0.93			2/21/24 23:56:00	Y	IV
R2401333-003	Cobalt, Total	N/A		Soil	0.08 ppm	0.5400 g	7.0 mg/Kg #	1	0.09	4.6			2/21/24 23:56:00	Y	IV
R2401333-003	Copper, Total	N/A		Soil	0.18 ppm	0.5400 g	17.0 mg/Kg #	1	0.3	1.9			2/21/24 23:56:00	Y	IV
R2401333-003	Lead, Total	N/A		Soil	0.69 ppm	0.5400 g	64.0 mg/Kg #	1	0.4	4.6			2/21/24 23:56:00	Y	IV
R2401333-003	Magnesium, Total	N/A		Soil	29.89 ppm	0.5400 g	2770 mg/Kg #	1	13	93			2/21/24 23:56:00	Y	IV
R2401333-003	Manganese, Total	N/A		Soil	2.29 ppm	0.5400 g	212 mg/Kg #	1	0.5	1.9			2/21/24 23:56:00	Y	IV
R2401333-003	Nickel, Total	N/A		Soil	0.52 ppm	0.5400 g	47.9 mg/Kg #	1	0.7	3.7			2/21/24 23:56:00	Y	IV
R2401333-003	Potassium, Total	N/A		Soil	6.54 ppm	0.5400 g	610 mg/Kg #	1	50	190			2/21/24 23:56:00	Y	IV
R2401333-003	Selenium, Total	N/A		Soil	0.01 ppm	0.5400 g	0.68 mg/Kg # J	1	0.54	0.93			2/21/24 23:56:00	Y	IV
R2401333-003	Silver, Total	N/A		Soil	0.00 ppm	0.5400 g	0.09 mg/Kg # J	1	0.09	0.93			2/21/24 23:56:00	Y	IV
R2401333-003	Sodium, Total	N/A		Soil	0.76 ppm	0.5400 g	71 mg/Kg # J	1	19	93			2/21/24 23:56:00	Y	IV
R2401333-003	Thallium, Total	N/A		Soil	-0.01 ppm	0.5400 g	0.93 mg/Kg # U	1	0.65	0.93			2/21/24 23:56:00	Y	IV
R2401333-003	Vanadium, Total	N/A		Soil	0.20 ppm	0.5400 g	18.8 mg/Kg #	1	0.07	4.6			2/21/24 23:56:00	Y	IV
R2401333-003	Zinc, Total	N/A		Soil	0.72 ppm	0.5400 g	66.7 mg/Kg #	1	1.4	1.9			2/21/24 23:56:00	Y	IV
RQ2401818-03	Aluminum, Total	MS	R2401333-003	Soil	84.29 ppm	0.5400 g	7800 mg/Kg #	1	12	19	389*		2/22/24 00:05:00	N	IV
RQ2401818-03	Antimony, Total	MS	R2401333-003	Soil	0.34 ppm	0.5400 g	31.8 mg/Kg #	1	0.6	5.6	69*		2/22/24 00:05:00	N	IV
RQ2401818-03	Arsenic, Total	MS	R2401333-003	Soil	0.08 ppm	0.5400 g	6.97 mg/Kg #	1	0.70	0.93	107		2/22/24 00:05:00	N	IV
RQ2401818-03	Barium, Total	MS	R2401333-003	Soil	2.74 ppm	0.5400 g	253 mg/Kg #	1	0.3	1.9	106		2/22/24 00:05:00	N	IV
RQ2401818-03	Beryllium, Total	MS	R2401333-003	Soil	0.05 ppm	0.5400 g	4.66 mg/Kg #	1	0.03	0.28	93		2/22/24 00:05:00	N	IV
RQ2401818-03	Cadmium, Total	MS	R2401333-003	Soil	0.05 ppm	0.5400 g	4.45 mg/Kg #	1	0.09	0.46	96		2/22/24 00:05:00	N	IV
RQ2401818-03	Calcium, Total	MS	R2401333-003	Soil	14.92 ppm	0.5400 g	1380 mg/Kg #	1	32	93	102		2/22/24 00:05:00	N	IV
RQ2401818-03	Chromium, Total	MS	R2401333-003	Soil	0.33 ppm	0.5400 g	30.3 mg/Kg #	1	0.35	0.93	75		2/22/24 00:05:00	N	IV
RQ2401818-03	Cobalt, Total	MS	R2401333-003	Soil	0.55 ppm	0.5400 g	50.7 mg/Kg #	1	0.09	4.6	94		2/22/24 00:05:00	N	IV
RQ2401818-03	Copper, Total	MS	R2401333-003	Soil	0.42 ppm	0.5400 g	38.5 mg/Kg #	1	0.3	1.9	93		2/22/24 00:05:00	N	IV
RQ2401818-03	Lead, Total	MS	R2401333-003	Soil	1.14 ppm	0.5400 g	106 mg/Kg #	1	0.4	4.6	90		2/22/24 00:05:00	N	IV
RQ2401818-03	Magnesium, Total	MS	R2401333-003	Soil	23.43 ppm	0.5400 g	2170 mg/Kg #	1	13	93	-323*		2/22/24 00:05:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833057 **Method/Testcode:** 6010C/Mn T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2401818-03	Manganese, Total	MS	R2401333-003	Soil	3.05 ppm	0.5400 g	282 mg/Kg #	1	0.5	1.9	151*	SPK too low	2/22/24 00:05:00	N	IV
KQ2401818-03	Nickel, Total	MS	R2401333-003	Soil	0.86 ppm	0.5400 g	80.0 mg/Kg #	1	0.7	3.7	69*		2/22/24 00:05:00	N	IV
KQ2401818-03	Potassium, Total	MS	R2401333-003	Soil	23.91 ppm	0.5400 g	2210 mg/Kg #	1	50	190	87		2/22/24 00:05:00	N	IV
KQ2401818-03	Selenium, Total	MS	R2401333-003	Soil	0.90 ppm	0.5400 g	83.7 mg/Kg #	1	0.54	0.93	89		2/22/24 00:05:00	N	IV
KQ2401818-03	Silver, Total	MS	R2401333-003	Soil	0.05 ppm	0.5400 g	4.52 mg/Kg #	1	0.09	0.93	96		2/22/24 00:05:00	N	IV
KQ2401818-03	Sodium, Total	MS	R2401333-003	Soil	19.57 ppm	0.5400 g	1810 mg/Kg #	1	19	93	94		2/22/24 00:05:00	N	IV
KQ2401818-03	Thallium, Total	MS	R2401333-003	Soil	1.85 ppm	0.5400 g	171 mg/Kg #	1	0.65	0.93	92		2/22/24 00:05:00	N	IV
KQ2401818-03	Vanadium, Total	MS	R2401333-003	Soil	0.66 ppm	0.5400 g	61.0 mg/Kg #	1	0.07	4.6	91		2/22/24 00:05:00	N	IV
KQ2401818-03	Zinc, Total	MS	R2401333-003	Soil	1.29 ppm	0.5400 g	119 mg/Kg #	1	1.4	1.9	113		2/22/24 00:05:00	N	IV
KQ2401818-04	Aluminum, Total	DMS	R2401333-003	Soil	79.75 ppm	0.5300 g	7520 mg/Kg #	1	12	19	233*	SPK too low 4	2/22/24 00:09:00	N	IV
KQ2401818-04	Antimony, Total	DMS	R2401333-003	Soil	0.35 ppm	0.5300 g	33.3 mg/Kg #	1	0.6	5.7	71*	4	2/22/24 00:09:00	N	IV
KQ2401818-04	Arsenic, Total	DMS	R2401333-003	Soil	0.08 ppm	0.5300 g	7.08 mg/Kg #	1	0.70	0.94	108	2	2/22/24 00:09:00	N	IV
KQ2401818-04	Barium, Total	DMS	R2401333-003	Soil	2.61 ppm	0.5300 g	246 mg/Kg #	1	0.3	1.9	100	3	2/22/24 00:09:00	N	IV
KQ2401818-04	Beryllium, Total	DMS	R2401333-003	Soil	0.05 ppm	0.5300 g	4.74 mg/Kg #	1	0.03	0.28	93	2	2/22/24 00:09:00	N	IV
KQ2401818-04	Cadmium, Total	DMS	R2401333-003	Soil	0.05 ppm	0.5300 g	4.50 mg/Kg #	1	0.09	0.47	95	1	2/22/24 00:09:00	N	IV
KQ2401818-04	Calcium, Total	DMS	R2401333-003	Soil	13.50 ppm	0.5300 g	1270 mg/Kg #	1	32	94	43*	SPK too low 8	2/22/24 00:09:00	N	IV
KQ2401818-04	Chromium, Total	DMS	R2401333-003	Soil	0.35 ppm	0.5300 g	32.7 mg/Kg #	1	0.35	0.94	86	8	2/22/24 00:09:00	N	IV
KQ2401818-04	Cobalt, Total	DMS	R2401333-003	Soil	0.55 ppm	0.5300 g	51.9 mg/Kg #	1	0.09	4.7	95	2	2/22/24 00:09:00	N	IV
KQ2401818-04	Copper, Total	DMS	R2401333-003	Soil	0.42 ppm	0.5300 g	39.5 mg/Kg #	1	0.3	1.9	96	3	2/22/24 00:09:00	N	IV
KQ2401818-04	Lead, Total	DMS	R2401333-003	Soil	1.10 ppm	0.5300 g	104 mg/Kg #	1	0.4	4.7	85	2	2/22/24 00:09:00	N	IV
KQ2401818-04	Magnesium, Total	DMS	R2401333-003	Soil	25.82 ppm	0.5300 g	2440 mg/Kg #	1	13	94	-176*	SPK too low 12	2/22/24 00:09:00	N	IV
KQ2401818-04	Manganese, Total	DMS	R2401333-003	Soil	2.93 ppm	0.5300 g	276 mg/Kg #	1	0.5	1.9	136*	2	2/22/24 00:09:00	N	IV
KQ2401818-04	Nickel, Total	DMS	R2401333-003	Soil	0.92 ppm	0.5300 g	87.0 mg/Kg #	1	0.7	3.8	83	8	2/22/24 00:09:00	N	IV
KQ2401818-04	Potassium, Total	DMS	R2401333-003	Soil	24.55 ppm	0.5300 g	2320 mg/Kg #	1	50	190	91	5	2/22/24 00:09:00	N	IV
KQ2401818-04	Selenium, Total	DMS	R2401333-003	Soil	0.91 ppm	0.5300 g	85.6 mg/Kg #	1	0.54	0.94	89	2	2/22/24 00:09:00	N	IV
KQ2401818-04	Silver, Total	DMS	R2401333-003	Soil	0.05 ppm	0.5300 g	4.62 mg/Kg #	1	0.09	0.94	96	2	2/22/24 00:09:00	N	IV
KQ2401818-04	Sodium, Total	DMS	R2401333-003	Soil	19.56 ppm	0.5300 g	1850 mg/Kg #	1	19	94	94	2	2/22/24 00:09:00	N	IV
KQ2401818-04	Thallium, Total	DMS	R2401333-003	Soil	1.84 ppm	0.5300 g	174 mg/Kg #	1	0.65	0.94	92	2	2/22/24 00:09:00	N	IV
KQ2401818-04	Vanadium, Total	DMS	R2401333-003	Soil	0.66 ppm	0.5300 g	62.5 mg/Kg #	1	0.07	4.7	93	2	2/22/24 00:09:00	N	IV
KQ2401818-04	Zinc, Total	DMS	R2401333-003	Soil	1.19 ppm	0.5300 g	112 mg/Kg #	1	1.4	1.9	97	6	2/22/24 00:09:00	N	IV
KQ2401334-001	Aluminum, Total	N/A		Soil	69.73 ppm	0.5200 g	6700 mg/Kg #	1	12	19			2/22/24 00:18:00	N	IV
KQ2401334-001	Antimony, Total	N/A		Soil	0.00 ppm	0.5200 g	5.8 mg/Kg # U	1	0.6	5.8			2/22/24 00:18:00	N	IV
KQ2401334-001	Arsenic, Total	N/A		Soil	0.06 ppm	0.5200 g	5.53 mg/Kg #	1	0.70	0.96			2/22/24 00:18:00	N	IV
KQ2401334-001	Barium, Total	N/A		Soil	0.66 ppm	0.5200 g	63.8 mg/Kg #	1	0.3	1.9			2/22/24 00:18:00	N	IV
KQ2401334-001	Beryllium, Total	N/A		Soil	0.00 ppm	0.5200 g	0.28 mg/Kg # J	1	0.03	0.29			2/22/24 00:18:00	N	IV
KQ2401334-001	Boron, Total	N/A		Soil	0.23 ppm	0.5200 g	22 mg/Kg #	1	2	19			2/22/24 00:18:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833057 **Method/Testcode:** 6010C/Cd T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2401334-001	Cadmium, Total	N/A		Soil	0.00 ppm	0.5200 g	0.25 mg/Kg # J	1	0.09	0.48			2/22/24 00:18:00	N	IV
2401334-001	Calcium, Total	N/A		Soil	107.55 ppm	0.5200 g	10300 mg/Kg #	1	32	96			2/22/24 00:18:00	N	IV
2401334-001	Chromium, Total	N/A		Soil	0.13 ppm	0.5200 g	12.9 mg/Kg #	1	0.35	0.96			2/22/24 00:18:00	N	IV
2401334-001	Cobalt, Total	N/A		Soil	0.06 ppm	0.5200 g	6.1 mg/Kg #	1	0.09	4.8			2/22/24 00:18:00	N	IV
2401334-001	Copper, Total	N/A		Soil	0.27 ppm	0.5200 g	25.5 mg/Kg #	1	0.3	1.9			2/22/24 00:18:00	N	IV
2401334-001	Lead, Total	N/A		Soil	0.78 ppm	0.5200 g	75.1 mg/Kg #	1	0.4	4.8			2/22/24 00:18:00	N	IV
2401334-001	Magnesium, Total	N/A		Soil	44.47 ppm	0.5200 g	4280 mg/Kg #	1	13	96			2/22/24 00:18:00	N	IV
2401334-001	Manganese, Total	N/A		Soil	3.91 ppm	0.5200 g	376 mg/Kg #	1	0.5	1.9			2/22/24 00:18:00	N	IV
2401334-001	Nickel, Total	N/A		Soil	0.18 ppm	0.5200 g	17.0 mg/Kg #	1	0.7	3.8			2/22/24 00:18:00	N	IV
2401334-001	Potassium, Total	N/A		Soil	6.67 ppm	0.5200 g	640 mg/Kg #	1	50	190			2/22/24 00:18:00	N	IV
2401334-001	Selenium, Total	N/A		Soil	0.01 ppm	0.5200 g	0.96 mg/Kg # U	1	0.54	0.96			2/22/24 00:18:00	N	IV
2401334-001	Silver, Total	N/A		Soil	0.00 ppm	0.5200 g	0.96 mg/Kg # U	1	0.09	0.96			2/22/24 00:18:00	N	IV
2401334-001	Sodium, Total	N/A		Soil	2.06 ppm	0.5200 g	198 mg/Kg #	1	19	96			2/22/24 00:18:00	N	IV
2401334-001	Thallium, Total	N/A		Soil	0.00 ppm	0.5200 g	0.96 mg/Kg # U	1	0.65	0.96			2/22/24 00:18:00	N	IV
2401334-001	Vanadium, Total	N/A		Soil	0.20 ppm	0.5200 g	19.0 mg/Kg #	1	0.07	4.8			2/22/24 00:18:00	N	IV
2401334-001	Zinc, Total	N/A		Soil	1.05 ppm	0.5200 g	101 mg/Kg #	1	1.4	1.9			2/22/24 00:18:00	N	IV
2401334-003	Aluminum, Total	N/A		Soil	56.90 ppm	0.5100 g	5580 mg/Kg #	1	12	20			2/22/24 00:22:00	N	IV
2401334-003	Antimony, Total	N/A		Soil	0.03 ppm	0.5100 g	3.1 mg/Kg # J	1	0.6	5.9			2/22/24 00:22:00	N	IV
2401334-003	Arsenic, Total	N/A		Soil	0.56 ppm	0.5100 g	55.1 mg/Kg #	1	0.70	0.98			2/22/24 00:22:00	N	IV
2401334-003	Barium, Total	N/A		Soil	1.29 ppm	0.5100 g	127 mg/Kg #	1	0.3	2.0			2/22/24 00:22:00	N	IV
2401334-003	Beryllium, Total	N/A		Soil	0.00 ppm	0.5100 g	0.29 mg/Kg #	1	0.03	0.29			2/22/24 00:22:00	N	IV
2401334-003	Boron, Total	N/A		Soil	0.28 ppm	0.5100 g	28 mg/Kg #	1	2	20			2/22/24 00:22:00	N	IV
2401334-003	Cadmium, Total	N/A		Soil	0.07 ppm	0.5100 g	6.69 mg/Kg #	1	0.09	0.49			2/22/24 00:22:00	N	IV
2401334-003	Calcium, Total	N/A		Soil	48.56 ppm	0.5100 g	4760 mg/Kg #	1	32	98			2/22/24 00:22:00	N	IV
2401334-003	Chromium, Total	N/A		Soil	0.10 ppm	0.5100 g	10.2 mg/Kg #	1	0.35	0.98			2/22/24 00:22:00	N	IV
2401334-003	Cobalt, Total	N/A		Soil	0.05 ppm	0.5100 g	4.9 mg/Kg #	1	0.09	4.9			2/22/24 00:22:00	N	IV
2401334-003	Copper, Total	N/A		Soil	0.50 ppm	0.5100 g	48.9 mg/Kg #	1	0.3	2.0			2/22/24 00:22:00	N	IV
2401334-003	Magnesium, Total	N/A		Soil	16.81 ppm	0.5100 g	1650 mg/Kg #	1	13	98			2/22/24 00:22:00	N	IV
2401334-003	Manganese, Total	N/A		Soil	2.69 ppm	0.5100 g	264 mg/Kg #	1	0.5	2.0			2/22/24 00:22:00	N	IV
2401334-003	Nickel, Total	N/A		Soil	0.12 ppm	0.5100 g	12.0 mg/Kg #	1	0.7	3.9			2/22/24 00:22:00	N	IV
2401334-003	Potassium, Total	N/A		Soil	6.66 ppm	0.5100 g	650 mg/Kg #	1	50	200			2/22/24 00:22:00	N	IV
2401334-003	Selenium, Total	N/A		Soil	0.05 ppm	0.5100 g	5.20 mg/Kg #	1	0.54	0.98			2/22/24 00:22:00	N	IV
2401334-003	Silver, Total	N/A		Soil	0.01 ppm	0.5100 g	0.68 mg/Kg # J	1	0.09	0.98			2/22/24 00:22:00	N	IV
2401334-003	Sodium, Total	N/A		Soil	1.27 ppm	0.5100 g	125 mg/Kg #	1	19	98			2/22/24 00:22:00	N	IV
2401334-003	Thallium, Total	N/A		Soil	0.00 ppm	0.5100 g	0.98 mg/Kg # U	1	0.65	0.98			2/22/24 00:22:00	N	IV
2401334-003	Vanadium, Total	N/A		Soil	0.12 ppm	0.5100 g	12.0 mg/Kg #	1	0.07	4.9			2/22/24 00:22:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833057 **Method/Testcode:** 6010C/Zn T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
22401334-003	Zinc, Total	N/A		Soil	1.94 ppm	0.5100 g	191 mg/Kg #	1	1.4	2.0			2/22/24 00:22:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833058 **Method/Testcode:** 6010C/Al T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2401819-01	Aluminum, Total	MB		Soil	0.00 ppm	0.5 g	20 mg/Kg U	1	12	20			2/22/24 00:48:00	N	IV
KQ2401819-01	Antimony, Total	MB		Soil	0.01 ppm	0.5 g	6.0 mg/Kg U	1	0.6	6.0			2/22/24 00:48:00	N	IV
KQ2401819-01	Arsenic, Total	MB		Soil	0.00 ppm	0.5 g	1.0 mg/Kg U	1	0.7	1.0			2/22/24 00:48:00	N	IV
KQ2401819-01	Barium, Total	MB		Soil	0.00 ppm	0.5 g	2.0 mg/Kg U	1	0.3	2.0			2/22/24 00:48:00	N	IV
KQ2401819-01	Beryllium, Total	MB		Soil	0.00 ppm	0.5 g	0.30 mg/Kg U	1	0.03	0.30			2/22/24 00:48:00	N	IV
KQ2401819-01	Boron, Total	MB		Soil	0.00 ppm	0.5 g	20 mg/Kg U	1	2	20			2/22/24 00:48:00	N	IV
KQ2401819-01	Cadmium, Total	MB		Soil	0.00 ppm	0.5 g	0.50 mg/Kg U	1	0.09	0.50			2/22/24 00:48:00	N	IV
KQ2401819-01	Calcium, Total	MB		Soil	0.02 ppm	0.5 g	100 mg/Kg U	1	40	100			2/22/24 00:48:00	N	IV
KQ2401819-01	Chromium, Total	MB		Soil	0.00 ppm	0.5 g	1.0 mg/Kg U	1	0.4	1.0			2/22/24 00:48:00	N	IV
KQ2401819-01	Cobalt, Total	MB		Soil	0.00 ppm	0.5 g	5.0 mg/Kg U	1	0.09	5.0			2/22/24 00:48:00	N	IV
KQ2401819-01	Copper, Total	MB		Soil	0.00 ppm	0.5 g	2.0 mg/Kg U	1	0.3	2.0			2/22/24 00:48:00	N	IV
KQ2401819-01	Iron, Total	MB		Soil	0.02 ppm	0.5 g	20 mg/Kg U	1	13	20			2/22/24 00:48:00	N	IV
KQ2401819-01	Lead, Total	MB		Soil	0.00 ppm	0.5 g	5.0 mg/Kg U	1	0.4	5.0			2/22/24 00:48:00	N	IV
KQ2401819-01	Magnesium, Total	MB		Soil	0.00 ppm	0.5 g	100 mg/Kg U	1	20	100			2/22/24 00:48:00	N	IV
KQ2401819-01	Manganese, Total	MB		Soil	0.00 ppm	0.5 g	2.0 mg/Kg U	1	0.5	2.0			2/22/24 00:48:00	N	IV
KQ2401819-01	Nickel, Total	MB		Soil	0.00 ppm	0.5 g	4.0 mg/Kg U	1	0.7	4.0			2/22/24 00:48:00	N	IV
KQ2401819-01	Potassium, Total	MB		Soil	0.02 ppm	0.5 g	200 mg/Kg U	1	50	200			2/22/24 00:48:00	N	IV
KQ2401819-01	Selenium, Total	MB		Soil	0.00 ppm	0.5 g	1.0 mg/Kg U	1	0.6	1.0			2/22/24 00:48:00	N	IV
KQ2401819-01	Silver, Total	MB		Soil	0.00 ppm	0.5 g	1.0 mg/Kg U	1	0.09	1.0			2/22/24 00:48:00	N	IV
KQ2401819-01	Sodium, Total	MB		Soil	0.02 ppm	0.5 g	100 mg/Kg U	1	20	100			2/22/24 00:48:00	N	IV
KQ2401819-01	Thallium, Total	MB		Soil	0.00 ppm	0.5 g	1.0 mg/Kg U	1	0.7	1.0			2/22/24 00:48:00	N	IV
KQ2401819-01	Vanadium, Total	MB		Soil	0.00 ppm	0.5 g	5.0 mg/Kg U	1	0.07	5.0			2/22/24 00:48:00	N	IV
KQ2401819-01	Zinc, Total	MB		Soil	0.00 ppm	0.5 g	2.0 mg/Kg U	1	1.4	2.0			2/22/24 00:48:00	N	IV
KQ2401819-02	Aluminum, Total	LCS		Soil	1.91 ppm	0.5 g	191 mg/Kg	1	12	20	96		2/22/24 00:51:00	N	IV
KQ2401819-02	Antimony, Total	LCS		Soil	0.48 ppm	0.5 g	48.3 mg/Kg	1	0.6	6.0	97		2/22/24 00:51:00	N	IV
KQ2401819-02	Arsenic, Total	LCS		Soil	0.04 ppm	0.5 g	4.02 mg/Kg	1	0.7	1.0	101		2/22/24 00:51:00	N	IV
KQ2401819-02	Barium, Total	LCS		Soil	2.06 ppm	0.5 g	206 mg/Kg	1	0.3	2.0	103		2/22/24 00:51:00	N	IV
KQ2401819-02	Beryllium, Total	LCS		Soil	0.05 ppm	0.5 g	4.82 mg/Kg	1	0.03	0.30	96		2/22/24 00:51:00	N	IV
KQ2401819-02	Boron, Total	LCS		Soil	0.95 ppm	0.5 g	95.3 mg/Kg	1	2	20	95		2/22/24 00:51:00	N	IV
KQ2401819-02	Cadmium, Total	LCS		Soil	0.05 ppm	0.5 g	5.08 mg/Kg	1	0.09	0.50	102		2/22/24 00:51:00	N	IV
KQ2401819-02	Calcium, Total	LCS		Soil	2.02 ppm	0.5 g	202 mg/Kg	1	40	100	101		2/22/24 00:51:00	N	IV
KQ2401819-02	Chromium, Total	LCS		Soil	0.20 ppm	0.5 g	20.0 mg/Kg	1	0.4	1.0	100		2/22/24 00:51:00	N	IV
KQ2401819-02	Cobalt, Total	LCS		Soil	0.52 ppm	0.5 g	51.5 mg/Kg	1	0.09	5.0	103		2/22/24 00:51:00	N	IV
KQ2401819-02	Copper, Total	LCS		Soil	0.25 ppm	0.5 g	25.3 mg/Kg	1	0.3	2.0	101		2/22/24 00:51:00	N	IV
KQ2401819-02	Iron, Total	LCS		Soil	1.01 ppm	0.5 g	101 mg/Kg	1	13	20	101		2/22/24 00:51:00	N	IV
KQ2401819-02	Lead, Total	LCS		Soil	0.51 ppm	0.5 g	50.6 mg/Kg	1	0.4	5.0	101		2/22/24 00:51:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833058 **Method/Testcode:** 6010C/Mg T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2401819-02	Magnesium, Total	LCS		Soil	1.90 ppm	0.5 g	190 mg/Kg	1	20	100	95		2/22/24 00:51:00	N	IV
KQ2401819-02	Manganese, Total	LCS		Soil	0.49 ppm	0.5 g	49.5 mg/Kg	1	0.5	2.0	99		2/22/24 00:51:00	N	IV
KQ2401819-02	Nickel, Total	LCS		Soil	0.52 ppm	0.5 g	52.4 mg/Kg	1	0.7	4.0	105		2/22/24 00:51:00	N	IV
KQ2401819-02	Potassium, Total	LCS		Soil	18.42 ppm	0.5 g	1840 mg/Kg	1	50	200	92		2/22/24 00:51:00	N	IV
KQ2401819-02	Selenium, Total	LCS		Soil	0.93 ppm	0.5 g	93.2 mg/Kg	1	0.6	1.0	92		2/22/24 00:51:00	N	IV
KQ2401819-02	Silver, Total	LCS		Soil	0.05 ppm	0.5 g	5.04 mg/Kg	1	0.09	1.0	101		2/22/24 00:51:00	N	IV
KQ2401819-02	Sodium, Total	LCS		Soil	19.06 ppm	0.5 g	1910 mg/Kg	1	20	100	95		2/22/24 00:51:00	N	IV
KQ2401819-02	Thallium, Total	LCS		Soil	1.99 ppm	0.5 g	199 mg/Kg	1	0.7	1.0	99		2/22/24 00:51:00	N	IV
KQ2401819-02	Vanadium, Total	LCS		Soil	0.49 ppm	0.5 g	49.4 mg/Kg	1	0.07	5.0	99		2/22/24 00:51:00	N	IV
KQ2401819-02	Zinc, Total	LCS		Soil	0.49 ppm	0.5 g	48.8 mg/Kg	1	1.4	2.0	98		2/22/24 00:51:00	N	IV
KQ2401277-001	Aluminum, Total	N/A		Soil	85.41 ppm	0.5200 g	8210 mg/Kg #	1	12	19			2/22/24 00:54:00	N	IV
KQ2401277-001	Antimony, Total	N/A		Soil	0.00 ppm	0.5200 g	5.8 mg/Kg # U	1	0.6	5.8			2/22/24 00:54:00	N	IV
KQ2401277-001	Arsenic, Total	N/A		Soil	0.09 ppm	0.5200 g	8.46 mg/Kg #	1	0.70	0.96			2/22/24 00:54:00	N	IV
KQ2401277-001	Barium, Total	N/A		Soil	2.75 ppm	0.5200 g	265 mg/Kg #	1	0.3	1.9			2/22/24 00:54:00	N	IV
KQ2401277-001	Beryllium, Total	N/A		Soil	0.00 ppm	0.5200 g	0.41 mg/Kg #	1	0.03	0.29			2/22/24 00:54:00	N	IV
KQ2401277-001	Boron, Total	N/A		Soil	0.27 ppm	0.5200 g	26 mg/Kg #	1	2	19			2/22/24 00:54:00	N	IV
KQ2401277-001	Cadmium, Total	N/A		Soil	0.01 ppm	0.5200 g	0.66 mg/Kg #	1	0.09	0.48			2/22/24 00:54:00	N	IV
KQ2401277-001	Chromium, Total	N/A		Soil	0.14 ppm	0.5200 g	13.6 mg/Kg #	1	0.35	0.96			2/22/24 00:54:00	N	IV
KQ2401277-001	Cobalt, Total	N/A		Soil	0.07 ppm	0.5200 g	7.1 mg/Kg #	1	0.09	4.8			2/22/24 00:54:00	N	IV
KQ2401277-001	Copper, Total	N/A		Soil	0.30 ppm	0.5200 g	28.7 mg/Kg #	1	0.3	1.9			2/22/24 00:54:00	N	IV
KQ2401277-001	Lead, Total	N/A		Soil	1.83 ppm	0.5200 g	176 mg/Kg #	1	0.4	4.8			2/22/24 00:54:00	N	IV
KQ2401277-001	Magnesium, Total	N/A		Soil	66.69 ppm	0.5200 g	6410 mg/Kg #	1	13	96			2/22/24 00:54:00	N	IV
KQ2401277-001	Manganese, Total	N/A		Soil	4.92 ppm	0.5200 g	473 mg/Kg #	1	0.5	1.9			2/22/24 00:54:00	N	IV
KQ2401277-001	Nickel, Total	N/A		Soil	0.17 ppm	0.5200 g	16.7 mg/Kg #	1	0.7	3.8			2/22/24 00:54:00	N	IV
KQ2401277-001	Potassium, Total	N/A		Soil	9.22 ppm	0.5200 g	890 mg/Kg #	1	50	190			2/22/24 00:54:00	N	IV
KQ2401277-001	Silver, Total	N/A		Soil	0.00 ppm	0.5200 g	0.15 mg/Kg # J	1	0.09	0.96			2/22/24 00:54:00	N	IV
KQ2401277-001	Sodium, Total	N/A		Soil	1.14 ppm	0.5200 g	110 mg/Kg #	1	19	96			2/22/24 00:54:00	N	IV
KQ2401277-001	Thallium, Total	N/A		Soil	0.00 ppm	0.5200 g	0.96 mg/Kg # U	1	0.65	0.96			2/22/24 00:54:00	N	IV
KQ2401277-001	Vanadium, Total	N/A		Soil	0.17 ppm	0.5200 g	16.8 mg/Kg #	1	0.07	4.8			2/22/24 00:54:00	N	IV
KQ2401277-001	Zinc, Total	N/A		Soil	2.47 ppm	0.5200 g	238 mg/Kg #	1	1.4	1.9			2/22/24 00:54:00	N	IV
KQ2401819-03	Aluminum, Total	MS	R2401277-001	Soil	88.06 ppm	0.5100 g	8630 mg/Kg #	1	12	20	214*		2/22/24 00:57:00	N	IV
KQ2401819-03	Antimony, Total	MS	R2401277-001	Soil	0.32 ppm	0.5100 g	31.3 mg/Kg #	1	0.6	5.9	64*		2/22/24 00:57:00	N	IV
KQ2401819-03	Arsenic, Total	MS	R2401277-001	Soil	0.13 ppm	0.5100 g	12.3 mg/Kg #	1	0.70	0.98	97		2/22/24 00:57:00	N	IV
KQ2401819-03	Barium, Total	MS	R2401277-001	Soil	3.71 ppm	0.5100 g	363 mg/Kg #	1	0.3	2.0	50*		2/22/24 00:57:00	N	IV
KQ2401819-03	Beryllium, Total	MS	R2401277-001	Soil	0.05 ppm	0.5100 g	5.08 mg/Kg #	1	0.03	0.29	95		2/22/24 00:57:00	N	IV
KQ2401819-03	Boron, Total	MS	R2401277-001	Soil	1.13 ppm	0.5100 g	111 mg/Kg #	1	2	20	87		2/22/24 00:57:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833058 **Method/Testcode:** 6010C/Cd T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2401819-03	Cadmium, Total	MS	R2401277-001	Soil	0.05 ppm	0.5100 g	5.14 mg/Kg #	1	0.09	0.49	91		2/22/24 00:57:00	N	IV
KQ2401819-03	Chromium, Total	MS	R2401277-001	Soil	0.32 ppm	0.5100 g	31.3 mg/Kg #	1	0.35	0.98	91		2/22/24 00:57:00	N	IV
KQ2401819-03	Cobalt, Total	MS	R2401277-001	Soil	0.57 ppm	0.5100 g	55.7 mg/Kg #	1	0.09	4.9	99		2/22/24 00:57:00	N	IV
KQ2401819-03	Copper, Total	MS	R2401277-001	Soil	0.52 ppm	0.5100 g	51.5 mg/Kg #	1	0.3	2.0	93		2/22/24 00:57:00	N	IV
KQ2401819-03	Lead, Total	MS	R2401277-001	Soil	1.77 ppm	0.5100 g	174 mg/Kg #	1	0.4	4.9	-4*		2/22/24 00:57:00	N	IV
KQ2401819-03	Magnesium, Total	MS	R2401277-001	Soil	31.84 ppm	0.5100 g	3120 mg/Kg #	1	13	98	-1678*		2/22/24 00:57:00	N	IV
KQ2401819-03	Manganese, Total	MS	R2401277-001	Soil	4.59 ppm	0.5100 g	450 mg/Kg #	1	0.5	2.0	-47*		2/22/24 00:57:00	N	IV
KQ2401819-03	Nickel, Total	MS	R2401277-001	Soil	0.68 ppm	0.5100 g	66.2 mg/Kg #	1	0.7	3.9	101		2/22/24 00:57:00	N	IV
KQ2401819-03	Potassium, Total	MS	R2401277-001	Soil	26.06 ppm	0.5100 g	2550 mg/Kg #	1	50	200	85		2/22/24 00:57:00	N	IV
KQ2401819-03	Silver, Total	MS	R2401277-001	Soil	0.05 ppm	0.5100 g	4.97 mg/Kg #	1	0.09	0.98	98		2/22/24 00:57:00	N	IV
KQ2401819-03	Sodium, Total	MS	R2401277-001	Soil	20.42 ppm	0.5100 g	2000 mg/Kg #	1	19	98	96		2/22/24 00:57:00	N	IV
KQ2401819-03	Thallium, Total	MS	R2401277-001	Soil	1.87 ppm	0.5100 g	184 mg/Kg #	1	0.65	0.98	94		2/22/24 00:57:00	N	IV
KQ2401819-03	Vanadium, Total	MS	R2401277-001	Soil	0.64 ppm	0.5100 g	62.9 mg/Kg #	1	0.07	4.9	94		2/22/24 00:57:00	N	IV
KQ2401819-03	Zinc, Total	MS	R2401277-001	Soil	1.73 ppm	0.5100 g	170 mg/Kg #	1	1.4	2.0	-139*		2/22/24 00:57:00	N	IV
KQ2401819-04	Aluminum, Total	DMS	R2401277-001	Soil	87.04 ppm	0.5200 g	8370 mg/Kg #	1	12	19	81	3	2/22/24 01:01:00	N	IV
KQ2401819-04	Antimony, Total	DMS	R2401277-001	Soil	0.30 ppm	0.5200 g	29.1 mg/Kg #	1	0.6	5.8	61*	7	2/22/24 01:01:00	N	IV
KQ2401819-04	Arsenic, Total	DMS	R2401277-001	Soil	0.13 ppm	0.5200 g	12.7 mg/Kg #	1	0.70	0.96	110	3	2/22/24 01:01:00	N	IV
KQ2401819-04	Barium, Total	DMS	R2401277-001	Soil	3.93 ppm	0.5200 g	378 mg/Kg #	1	0.3	1.9	59*	4	2/22/24 01:01:00	N	IV
KQ2401819-04	Beryllium, Total	DMS	R2401277-001	Soil	0.05 ppm	0.5200 g	4.96 mg/Kg #	1	0.03	0.29	95	2	2/22/24 01:01:00	N	IV
KQ2401819-04	Boron, Total	DMS	R2401277-001	Soil	1.15 ppm	0.5200 g	110 mg/Kg #	1	2	19	88	<1	2/22/24 01:01:00	N	IV
KQ2401819-04	Cadmium, Total	DMS	R2401277-001	Soil	0.05 ppm	0.5200 g	5.25 mg/Kg #	1	0.09	0.48	95	2	2/22/24 01:01:00	N	IV
KQ2401819-04	Chromium, Total	DMS	R2401277-001	Soil	0.32 ppm	0.5200 g	30.5 mg/Kg #	1	0.35	0.96	88	3	2/22/24 01:01:00	N	IV
KQ2401819-04	Cobalt, Total	DMS	R2401277-001	Soil	0.55 ppm	0.5200 g	53.0 mg/Kg #	1	0.09	4.8	95	5	2/22/24 01:01:00	N	IV
KQ2401819-04	Copper, Total	DMS	R2401277-001	Soil	0.57 ppm	0.5200 g	55.2 mg/Kg #	1	0.3	1.9	110	7	2/22/24 01:01:00	N	IV
KQ2401819-04	Lead, Total	DMS	R2401277-001	Soil	2.32 ppm	0.5200 g	223 mg/Kg #	1	0.4	4.8	97	25*	2/22/24 01:01:00	N	IV
KQ2401819-04	Magnesium, Total	DMS	R2401277-001	Soil	51.49 ppm	0.5200 g	4950 mg/Kg #	1	13	96	-760*	45*	2/22/24 01:01:00	N	IV
KQ2401819-04	Manganese, Total	DMS	R2401277-001	Soil	4.61 ppm	0.5200 g	443 mg/Kg #	1	0.5	1.9	-63*	2	2/22/24 01:01:00	N	IV
KQ2401819-04	Nickel, Total	DMS	R2401277-001	Soil	0.65 ppm	0.5200 g	62.8 mg/Kg #	1	0.7	3.8	96	5	2/22/24 01:01:00	N	IV
KQ2401819-04	Potassium, Total	DMS	R2401277-001	Soil	27.20 ppm	0.5200 g	2620 mg/Kg #	1	50	190	90	2	2/22/24 01:01:00	N	IV
KQ2401819-04	Silver, Total	DMS	R2401277-001	Soil	0.05 ppm	0.5200 g	4.99 mg/Kg #	1	0.09	0.96	101	<1	2/22/24 01:01:00	N	IV
KQ2401819-04	Sodium, Total	DMS	R2401277-001	Soil	21.02 ppm	0.5200 g	2020 mg/Kg #	1	19	96	99	<1	2/22/24 01:01:00	N	IV
KQ2401819-04	Thallium, Total	DMS	R2401277-001	Soil	1.82 ppm	0.5200 g	175 mg/Kg #	1	0.65	0.96	91	5	2/22/24 01:01:00	N	IV
KQ2401819-04	Vanadium, Total	DMS	R2401277-001	Soil	0.64 ppm	0.5200 g	62.0 mg/Kg #	1	0.07	4.8	94	1	2/22/24 01:01:00	N	IV
KQ2401819-04	Zinc, Total	DMS	R2401277-001	Soil	2.24 ppm	0.5200 g	215 mg/Kg #	1	1.4	1.9	-47*	24*	2/22/24 01:01:00	N	IV
KQ2401345-001	Arsenic, Total	N/A		Soil	0.02 ppm	0.5200 g	2.05 mg/Kg #	1	0.70	0.96			2/22/24 01:10:00	N	IV
KQ2401345-001	Barium, Total	N/A		Soil	0.85 ppm	0.5200 g	81.4 mg/Kg #	1	0.3	1.9			2/22/24 01:10:00	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833058 **Method/Testcode:** 6010C/Be T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2401345-001	Beryllium, Total	N/A		Soil	0.00 ppm	0.5200 g	0.31 mg/Kg #	1	0.03	0.29			2/22/24 01:10:00	N	IV
2401345-001	Cadmium, Total	N/A		Soil	0.00 ppm	0.5200 g	0.48 mg/Kg # U	1	0.09	0.48			2/22/24 01:10:00	N	IV
2401345-001	Chromium, Total	N/A		Soil	0.14 ppm	0.5200 g	13.2 mg/Kg #	1	0.35	0.96			2/22/24 01:10:00	N	IV
2401345-001	Copper, Total	N/A		Soil	0.11 ppm	0.5200 g	10.3 mg/Kg #	1	0.3	1.9			2/22/24 01:10:00	N	IV
2401345-001	Lead, Total	N/A		Soil	0.04 ppm	0.5200 g	4.2 mg/Kg # J	1	0.4	4.8			2/22/24 01:10:00	N	IV
2401345-001	Manganese, Total	N/A		Soil	3.74 ppm	0.5200 g	359 mg/Kg #	1	0.5	1.9			2/22/24 01:10:00	N	IV
2401345-001	Nickel, Total	N/A		Soil	0.16 ppm	0.5200 g	15.3 mg/Kg #	1	0.7	3.8			2/22/24 01:10:00	N	IV
2401345-001	Selenium, Total	N/A		Soil	0.00 ppm	0.5200 g	0.96 mg/Kg # U	1	0.54	0.96			2/22/24 01:10:00	N	IV
2401345-001	Silver, Total	N/A		Soil	0.00 ppm	0.5200 g	0.96 mg/Kg # U	1	0.09	0.96			2/22/24 01:10:00	N	IV
2401345-001	Zinc, Total	N/A		Soil	0.35 ppm	0.5200 g	33.7 mg/Kg #	1	1.4	1.9			2/22/24 01:10:00	N	IV
2401345-002	Arsenic, Total	N/A		Soil	0.05 ppm	0.5100 g	4.52 mg/Kg #	1	0.70	0.98			2/22/24 01:14:00	N	IV
2401345-002	Barium, Total	N/A		Soil	1.30 ppm	0.5100 g	127 mg/Kg #	1	0.3	2.0			2/22/24 01:14:00	N	IV
2401345-002	Beryllium, Total	N/A		Soil	0.00 ppm	0.5100 g	0.23 mg/Kg # J	1	0.03	0.29			2/22/24 01:14:00	N	IV
2401345-002	Cadmium, Total	N/A		Soil	0.00 ppm	0.5100 g	0.49 mg/Kg # U	1	0.09	0.49			2/22/24 01:14:00	N	IV
2401345-002	Chromium, Total	N/A		Soil	0.08 ppm	0.5100 g	8.02 mg/Kg #	1	0.35	0.98			2/22/24 01:14:00	N	IV
2401345-002	Copper, Total	N/A		Soil	0.16 ppm	0.5100 g	15.8 mg/Kg #	1	0.3	2.0			2/22/24 01:14:00	N	IV
2401345-002	Lead, Total	N/A		Soil	0.10 ppm	0.5100 g	9.6 mg/Kg #	1	0.4	4.9			2/22/24 01:14:00	N	IV
2401345-002	Manganese, Total	N/A		Soil	8.06 ppm	0.5100 g	790 mg/Kg #	1	0.5	2.0			2/22/24 01:14:00	N	IV
2401345-002	Nickel, Total	N/A		Soil	0.11 ppm	0.5100 g	10.5 mg/Kg #	1	0.7	3.9			2/22/24 01:14:00	N	IV
2401345-002	Selenium, Total	N/A		Soil	0.01 ppm	0.5100 g	0.74 mg/Kg # J	1	0.54	0.98			2/22/24 01:14:00	N	IV
2401345-002	Silver, Total	N/A		Soil	0.00 ppm	0.5100 g	0.98 mg/Kg # U	1	0.09	0.98			2/22/24 01:14:00	N	IV
2401345-002	Zinc, Total	N/A		Soil	0.72 ppm	0.5100 g	70.7 mg/Kg #	1	1.4	2.0			2/22/24 01:14:00	N	IV
2401345-003	Arsenic, Total	N/A		Soil	0.03 ppm	0.5400 g	2.56 mg/Kg #	1	0.70	0.93			2/22/24 01:17:00	N	IV
2401345-003	Barium, Total	N/A		Soil	0.34 ppm	0.5400 g	31.1 mg/Kg #	1	0.3	1.9			2/22/24 01:17:00	N	IV
2401345-003	Beryllium, Total	N/A		Soil	0.00 ppm	0.5400 g	0.08 mg/Kg # J	1	0.03	0.28			2/22/24 01:17:00	N	IV
2401345-003	Cadmium, Total	N/A		Soil	0.00 ppm	0.5400 g	0.46 mg/Kg # U	1	0.09	0.46			2/22/24 01:17:00	N	IV
2401345-003	Chromium, Total	N/A		Soil	0.15 ppm	0.5400 g	14.2 mg/Kg #	1	0.35	0.93			2/22/24 01:17:00	N	IV
2401345-003	Copper, Total	N/A		Soil	0.12 ppm	0.5400 g	11.5 mg/Kg #	1	0.3	1.9			2/22/24 01:17:00	N	IV
2401345-003	Lead, Total	N/A		Soil	0.08 ppm	0.5400 g	7.8 mg/Kg #	1	0.4	4.6			2/22/24 01:17:00	N	IV
2401345-003	Manganese, Total	N/A		Soil	2.02 ppm	0.5400 g	187 mg/Kg #	1	0.5	1.9			2/22/24 01:17:00	N	IV
2401345-003	Nickel, Total	N/A		Soil	0.07 ppm	0.5400 g	6.0 mg/Kg #	1	0.7	3.7			2/22/24 01:17:00	N	IV
2401345-003	Selenium, Total	N/A		Soil	0.01 ppm	0.5400 g	0.61 mg/Kg # J	1	0.54	0.93			2/22/24 01:17:00	N	IV
2401345-003	Silver, Total	N/A		Soil	0.00 ppm	0.5400 g	0.93 mg/Kg # U	1	0.09	0.93			2/22/24 01:17:00	N	IV
2401345-003	Zinc, Total	N/A		Soil	0.29 ppm	0.5400 g	26.8 mg/Kg #	1	1.4	1.9			2/22/24 01:17:00	N	IV
2401345-004	Arsenic, Total	N/A		Soil	0.02 ppm	0.5500 g	2.23 mg/Kg #	1	0.70	0.91			2/22/24 01:27:00	N	IV
2401345-004	Barium, Total	N/A		Soil	0.75 ppm	0.5500 g	68.3 mg/Kg #	1	0.3	1.8			2/22/24 01:27:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833058 **Method/Testcode:** 6010C/Be T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2401345-004	Beryllium, Total	N/A		Soil	0.00 ppm	0.5500 g	0.25 mg/Kg # J	1	0.03	0.27			2/22/24 01:27:00	N	IV
2401345-004	Cadmium, Total	N/A		Soil	0.00 ppm	0.5500 g	0.45 mg/Kg # U	1	0.09	0.45			2/22/24 01:27:00	N	IV
2401345-004	Chromium, Total	N/A		Soil	0.12 ppm	0.5500 g	10.5 mg/Kg #	1	0.35	0.91			2/22/24 01:27:00	N	IV
2401345-004	Copper, Total	N/A		Soil	0.12 ppm	0.5500 g	11.2 mg/Kg #	1	0.3	1.8			2/22/24 01:27:00	N	IV
2401345-004	Lead, Total	N/A		Soil	0.04 ppm	0.5500 g	3.6 mg/Kg # J	1	0.4	4.5			2/22/24 01:27:00	N	IV
2401345-004	Manganese, Total	N/A		Soil	3.15 ppm	0.5500 g	286 mg/Kg #	1	0.5	1.8			2/22/24 01:27:00	N	IV
2401345-004	Nickel, Total	N/A		Soil	0.12 ppm	0.5500 g	10.6 mg/Kg #	1	0.7	3.6			2/22/24 01:27:00	N	IV
2401345-004	Selenium, Total	N/A		Soil	0.01 ppm	0.5500 g	0.60 mg/Kg # J	1	0.54	0.91			2/22/24 01:27:00	N	IV
2401345-004	Silver, Total	N/A		Soil	0.00 ppm	0.5500 g	0.91 mg/Kg # U	1	0.09	0.91			2/22/24 01:27:00	N	IV
2401345-004	Zinc, Total	N/A		Soil	0.37 ppm	0.5500 g	33.3 mg/Kg #	1	1.4	1.8			2/22/24 01:27:00	N	IV
2401345-005	Arsenic, Total	N/A		Soil	0.02 ppm	0.5100 g	2.06 mg/Kg #	1	0.70	0.98			2/22/24 01:30:00	N	IV
2401345-005	Barium, Total	N/A		Soil	0.39 ppm	0.5100 g	38.2 mg/Kg #	1	0.3	2.0			2/22/24 01:30:00	N	IV
2401345-005	Beryllium, Total	N/A		Soil	0.00 ppm	0.5100 g	0.15 mg/Kg # J	1	0.03	0.29			2/22/24 01:30:00	N	IV
2401345-005	Cadmium, Total	N/A		Soil	0.00 ppm	0.5100 g	0.49 mg/Kg # U	1	0.09	0.49			2/22/24 01:30:00	N	IV
2401345-005	Chromium, Total	N/A		Soil	0.06 ppm	0.5100 g	5.73 mg/Kg #	1	0.35	0.98			2/22/24 01:30:00	N	IV
2401345-005	Copper, Total	N/A		Soil	0.12 ppm	0.5100 g	11.8 mg/Kg #	1	0.3	2.0			2/22/24 01:30:00	N	IV
2401345-005	Lead, Total	N/A		Soil	0.05 ppm	0.5100 g	4.8 mg/Kg # J	1	0.4	4.9			2/22/24 01:30:00	N	IV
2401345-005	Manganese, Total	N/A		Soil	4.35 ppm	0.5100 g	427 mg/Kg #	1	0.5	2.0			2/22/24 01:30:00	N	IV
2401345-005	Nickel, Total	N/A		Soil	0.07 ppm	0.5100 g	7.1 mg/Kg #	1	0.7	3.9			2/22/24 01:30:00	N	IV
2401345-005	Selenium, Total	N/A		Soil	0.01 ppm	0.5100 g	0.74 mg/Kg # J	1	0.54	0.98			2/22/24 01:30:00	N	IV
2401345-005	Silver, Total	N/A		Soil	0.00 ppm	0.5100 g	0.98 mg/Kg # U	1	0.09	0.98			2/22/24 01:30:00	N	IV
2401345-005	Zinc, Total	N/A		Soil	0.35 ppm	0.5100 g	34.3 mg/Kg #	1	1.4	2.0			2/22/24 01:30:00	N	IV
2401345-006	Arsenic, Total	N/A		Soil	0.02 ppm	0.5200 g	1.65 mg/Kg #	1	0.70	0.96			2/22/24 01:33:00	N	IV
2401345-006	Barium, Total	N/A		Soil	0.33 ppm	0.5200 g	31.5 mg/Kg #	1	0.3	1.9			2/22/24 01:33:00	N	IV
2401345-006	Beryllium, Total	N/A		Soil	0.00 ppm	0.5200 g	0.15 mg/Kg # J	1	0.03	0.29			2/22/24 01:33:00	N	IV
2401345-006	Cadmium, Total	N/A		Soil	0.00 ppm	0.5200 g	0.48 mg/Kg # U	1	0.09	0.48			2/22/24 01:33:00	N	IV
2401345-006	Chromium, Total	N/A		Soil	0.05 ppm	0.5200 g	5.05 mg/Kg #	1	0.35	0.96			2/22/24 01:33:00	N	IV
2401345-006	Copper, Total	N/A		Soil	0.13 ppm	0.5200 g	12.3 mg/Kg #	1	0.3	1.9			2/22/24 01:33:00	N	IV
2401345-006	Lead, Total	N/A		Soil	0.03 ppm	0.5200 g	2.5 mg/Kg # J	1	0.4	4.8			2/22/24 01:33:00	N	IV
2401345-006	Manganese, Total	N/A		Soil	2.53 ppm	0.5200 g	243 mg/Kg #	1	0.5	1.9			2/22/24 01:33:00	N	IV
2401345-006	Nickel, Total	N/A		Soil	0.07 ppm	0.5200 g	6.7 mg/Kg #	1	0.7	3.8			2/22/24 01:33:00	N	IV
2401345-006	Selenium, Total	N/A		Soil	0.00 ppm	0.5200 g	0.96 mg/Kg # U	1	0.54	0.96			2/22/24 01:33:00	N	IV
2401345-006	Silver, Total	N/A		Soil	0.00 ppm	0.5200 g	0.96 mg/Kg # U	1	0.09	0.96			2/22/24 01:33:00	N	IV
2401345-006	Zinc, Total	N/A		Soil	0.29 ppm	0.5200 g	27.4 mg/Kg #	1	1.4	1.9			2/22/24 01:33:00	N	IV
2401345-007	Arsenic, Total	N/A		Soil	0.02 ppm	0.5400 g	1.83 mg/Kg #	1	0.70	0.93			2/22/24 01:36:00	N	IV
2401345-007	Barium, Total	N/A		Soil	0.45 ppm	0.5400 g	41.9 mg/Kg #	1	0.3	1.9			2/22/24 01:36:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833058 **Method/Testcode:** 6010C/Be T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2401345-007	Beryllium, Total	N/A		Soil	0.00 ppm	0.5400 g	0.22 mg/Kg # J	1	0.03	0.28			2/22/24 01:36:00	N	IV
2401345-007	Cadmium, Total	N/A		Soil	0.00 ppm	0.5400 g	0.46 mg/Kg # U	1	0.09	0.46			2/22/24 01:36:00	N	IV
2401345-007	Chromium, Total	N/A		Soil	0.08 ppm	0.5400 g	7.35 mg/Kg #	1	0.35	0.93			2/22/24 01:36:00	N	IV
2401345-007	Copper, Total	N/A		Soil	0.22 ppm	0.5400 g	20.5 mg/Kg #	1	0.3	1.9			2/22/24 01:36:00	N	IV
2401345-007	Lead, Total	N/A		Soil	0.11 ppm	0.5400 g	9.9 mg/Kg #	1	0.4	4.6			2/22/24 01:36:00	N	IV
2401345-007	Manganese, Total	N/A		Soil	4.14 ppm	0.5400 g	383 mg/Kg #	1	0.5	1.9			2/22/24 01:36:00	N	IV
2401345-007	Nickel, Total	N/A		Soil	0.09 ppm	0.5400 g	8.4 mg/Kg #	1	0.7	3.7			2/22/24 01:36:00	N	IV
2401345-007	Selenium, Total	N/A		Soil	0.00 ppm	0.5400 g	0.93 mg/Kg # U	1	0.54	0.93			2/22/24 01:36:00	N	IV
2401345-007	Silver, Total	N/A		Soil	0.00 ppm	0.5400 g	0.93 mg/Kg # U	1	0.09	0.93			2/22/24 01:36:00	N	IV
2401345-007	Zinc, Total	N/A		Soil	0.59 ppm	0.5400 g	54.7 mg/Kg #	1	1.4	1.9			2/22/24 01:36:00	N	IV
2401345-008	Arsenic, Total	N/A		Soil	0.04 ppm	0.5500 g	4.01 mg/Kg #	1	0.70	0.91			2/22/24 01:40:00	N	IV
2401345-008	Barium, Total	N/A		Soil	0.69 ppm	0.5500 g	62.4 mg/Kg #	1	0.3	1.8			2/22/24 01:40:00	N	IV
2401345-008	Beryllium, Total	N/A		Soil	0.00 ppm	0.5500 g	0.20 mg/Kg # J	1	0.03	0.27			2/22/24 01:40:00	N	IV
2401345-008	Cadmium, Total	N/A		Soil	0.00 ppm	0.5500 g	0.45 mg/Kg # U	1	0.09	0.45			2/22/24 01:40:00	N	IV
2401345-008	Chromium, Total	N/A		Soil	0.09 ppm	0.5500 g	8.60 mg/Kg #	1	0.35	0.91			2/22/24 01:40:00	N	IV
2401345-008	Copper, Total	N/A		Soil	0.13 ppm	0.5500 g	11.7 mg/Kg #	1	0.3	1.8			2/22/24 01:40:00	N	IV
2401345-008	Lead, Total	N/A		Soil	0.06 ppm	0.5500 g	5.5 mg/Kg #	1	0.4	4.5			2/22/24 01:40:00	N	IV
2401345-008	Manganese, Total	N/A		Soil	3.48 ppm	0.5500 g	316 mg/Kg #	1	0.5	1.8			2/22/24 01:40:00	N	IV
2401345-008	Nickel, Total	N/A		Soil	0.09 ppm	0.5500 g	8.4 mg/Kg #	1	0.7	3.6			2/22/24 01:40:00	N	IV
2401345-008	Selenium, Total	N/A		Soil	0.01 ppm	0.5500 g	0.56 mg/Kg # J	1	0.54	0.91			2/22/24 01:40:00	N	IV
2401345-008	Silver, Total	N/A		Soil	0.00 ppm	0.5500 g	0.91 mg/Kg # U	1	0.09	0.91			2/22/24 01:40:00	N	IV
2401345-008	Zinc, Total	N/A		Soil	0.44 ppm	0.5500 g	39.8 mg/Kg #	1	1.4	1.8			2/22/24 01:40:00	N	IV
2401345-009	Arsenic, Total	N/A		Soil	0.02 ppm	0.5100 g	1.88 mg/Kg #	1	0.70	0.98			2/22/24 01:43:00	N	IV
2401345-009	Barium, Total	N/A		Soil	0.37 ppm	0.5100 g	35.8 mg/Kg #	1	0.3	2.0			2/22/24 01:43:00	N	IV
2401345-009	Beryllium, Total	N/A		Soil	0.00 ppm	0.5100 g	0.22 mg/Kg # J	1	0.03	0.29			2/22/24 01:43:00	N	IV
2401345-009	Cadmium, Total	N/A		Soil	0.00 ppm	0.5100 g	0.49 mg/Kg # U	1	0.09	0.49			2/22/24 01:43:00	N	IV
2401345-009	Chromium, Total	N/A		Soil	0.08 ppm	0.5100 g	7.38 mg/Kg #	1	0.35	0.98			2/22/24 01:43:00	N	IV
2401345-009	Copper, Total	N/A		Soil	0.27 ppm	0.5100 g	26.3 mg/Kg #	1	0.3	2.0			2/22/24 01:43:00	N	IV
2401345-009	Lead, Total	N/A		Soil	0.04 ppm	0.5100 g	4.0 mg/Kg # J	1	0.4	4.9			2/22/24 01:43:00	N	IV
2401345-009	Manganese, Total	N/A		Soil	5.46 ppm	0.5100 g	536 mg/Kg #	1	0.5	2.0			2/22/24 01:43:00	N	IV
2401345-009	Nickel, Total	N/A		Soil	0.12 ppm	0.5100 g	11.5 mg/Kg #	1	0.7	3.9			2/22/24 01:43:00	N	IV
2401345-009	Selenium, Total	N/A		Soil	0.01 ppm	0.5100 g	0.74 mg/Kg # J	1	0.54	0.98			2/22/24 01:43:00	N	IV
2401345-009	Silver, Total	N/A		Soil	0.00 ppm	0.5100 g	0.98 mg/Kg # U	1	0.09	0.98			2/22/24 01:43:00	N	IV
2401345-009	Zinc, Total	N/A		Soil	0.41 ppm	0.5100 g	40.5 mg/Kg #	1	1.4	2.0			2/22/24 01:43:00	N	IV
2401345-010	Arsenic, Total	N/A		Soil	0.02 ppm	0.5 g	1.6 mg/Kg #	1	0.7	1.0			2/22/24 01:46:00	N	IV
2401345-010	Barium, Total	N/A		Soil	0.57 ppm	0.5 g	56.9 mg/Kg #	1	0.3	2.0			2/22/24 01:46:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-07 **Analyst:** MMCMAHON **Analysis Lot:** 833058 **Method/Testcode:** 6010C/Be T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2401345-010	Beryllium, Total	N/A		Soil	0.00 ppm	0.5 g	0.19 mg/Kg # J	1	0.03	0.30			2/22/24 01:46:00	N	IV
2401345-010	Cadmium, Total	N/A		Soil	0.00 ppm	0.5 g	0.50 mg/Kg # U	1	0.09	0.50			2/22/24 01:46:00	N	IV
2401345-010	Chromium, Total	N/A		Soil	0.08 ppm	0.5 g	8.5 mg/Kg #	1	0.4	1.0			2/22/24 01:46:00	N	IV
2401345-010	Copper, Total	N/A		Soil	0.07 ppm	0.5 g	6.8 mg/Kg #	1	0.3	2.0			2/22/24 01:46:00	N	IV
2401345-010	Lead, Total	N/A		Soil	0.05 ppm	0.5 g	5.1 mg/Kg #	1	0.4	5.0			2/22/24 01:46:00	N	IV
2401345-010	Manganese, Total	N/A		Soil	2.47 ppm	0.5 g	247 mg/Kg #	1	0.5	2.0			2/22/24 01:46:00	N	IV
2401345-010	Nickel, Total	N/A		Soil	0.07 ppm	0.5 g	7.1 mg/Kg #	1	0.7	4.0			2/22/24 01:46:00	N	IV
2401345-010	Selenium, Total	N/A		Soil	0.00 ppm	0.5 g	1.0 mg/Kg # U	1	0.6	1.0			2/22/24 01:46:00	N	IV
2401345-010	Silver, Total	N/A		Soil	0.00 ppm	0.5 g	1.0 mg/Kg # U	1	0.09	1.0			2/22/24 01:46:00	N	IV
2401345-010	Zinc, Total	N/A		Soil	0.52 ppm	0.5 g	51.8 mg/Kg #	1	1.4	2.0			2/22/24 01:46:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Form 2

Calibration Verifications

Metals by EPA 6010C

Workorder

R2401280

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 - 6 Month Sampling 2024

06/07/2024

ALS Environmental–Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Form 2 - Calibration Verifications

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

R-ICP-AES-07_833055		ICV			CCV			LLCCV			CCV			CCV			CCV		
Units ug/L	**Run Date**	02/21/24			02/21/24			02/21/24			02/21/24			02/21/24			02/21/24		
	Run Time	14:05			19:18			19:24			19:34			20:13			20:52		
Analyte		Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q
Arsenic		0.994	**99**		0.985	**98**		0.0199	**100**		0.997	**100**		0.992	**99**		0.990	**99**	
Iron		5.02	**100**		5.10	**102**		0.111	**111**		5.15	**103**		5.14	**103**		5.11	**102**	
Manganese		0.746	**99**		0.757	**101**		0.0155	**103**		0.760	**101**		0.763	**102**		0.757	**101**	

R-ICP-AES-07_833055		CCV			LLCCV			CCV					
Units ppm	**Run Date**	02/21/24			02/21/24			02/21/24					
	Run Time	21:17			21:24			21:34					
Analyte		Found	%R	Q	Found	%R	Q	Found	%R	Q			
Arsenic		0.988	**99**		0.0204	**102**		0.995	**100**				
Iron		5.13	**103**		0.111	**111**		5.16	**103**				
Manganese		0.761	**101**		0.0155	**103**		0.761	**101**				

QC ID	%R Limits	
CCV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn
ICV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn
ICV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn
LLCCV	70 - 130	**0.02** - As; **0.1** - Fe; **0.0150** - Mn

Form 2 - Calibration Verifications

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

R-ICP-AES-07_833056		ICV			CCV			LLCCV			CCV			CCV			CCV		
Units ug/L	**Run Date**	02/21/24			02/21/24			02/21/24			02/21/24			02/21/24			02/21/24		
	Run Time	14:05			21:17			21:24			21:34			22:12			22:51		
Analyte		Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q
Arsenic		0.994	**99**		0.988	**99**		0.0204	**102**		0.995	**100**		0.991	**99**		0.982	**98**	
Iron		5.02	**100**		5.13	**103**		0.111	**111**		5.16	**103**		5.12	**102**		5.10	**102**	
Manganese		0.746	**99**		0.761	**101**		0.0155	**103**		0.761	**101**		0.759	**101**		0.757	**101**	

R-ICP-AES-07_833056		CCV			LLCCV			CCV		
Units ppm	**Run Date**	02/21/24			02/21/24			02/21/24		
	Run Time	23:04			23:10			23:20		
Analyte		Found	%R	Q	Found	%R	Q	Found	%R	Q
Arsenic		0.993	**99**		0.0197	**99**		0.993	**99**	
Iron		5.12	**102**		0.111	**111**		5.15	**103**	
Manganese		0.759	**101**		0.0155	**103**		0.759	**101**	

QC ID	%R Limits	
CCV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn
ICV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn
ICV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn
LLCCV	70 - 130	**0.02** - As; **0.1** - Fe; **0.0150** - Mn

Form 2 - Calibration Verifications

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

R-ICP-AES-07_833186		ICV			LLCCV			CCV			CCV			CCV			CCV		
Units ppm	**Run Date**	02/22/24			02/22/24			02/22/24			02/22/24			02/22/24			02/22/24		
	Run Time	15:21			15:28			15:38			16:03			16:39			17:08		
Analyte		Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q
Manganese		0.742	**99**		0.0153	**102**		0.744	**99**		0.744	**99**		0.746	**99**		0.748	**100**	

R-ICP-AES-07_833186		CCV			LLCCV			CCV		
Units ppm	**Run Date**	02/22/24			02/22/24			02/22/24		
	Run Time	17:47			17:53			18:13		
Analyte		Found	%R	Q	Found	%R	Q	Found	%R	Q
Manganese		0.748	**100**		0.0154	**103**		0.749	**100**	

QC ID	%R Limits	
CCV	90 - 110	**0.750** - Mn
ICV	90 - 110	**0.750** - Mn
LLCCV	70 - 130	**0.0150** - Mn

Form 2 - Calibration Verifications

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

R-ICP-AES-07_833320		ICV			LLCCV			CCV			CCV			LLCCV			CCV		
Units ppm	**Run Date**	02/23/24			02/23/24			02/23/24			02/23/24			02/23/24			02/23/24		
	Run Time	13:37			13:43			13:53			14:32			14:38			14:58		
Analyte		Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q
Iron		5.01	**100**		0.108	**108**		5.03	**101**		5.01	**100**		0.108	**108**		5.02	**100**	

QC ID	%R Limits	
CCV	90 - 110	**5.0** - Fe
ICV	90 - 110	**5.0** - Fe
LLCCV	70 - 130	**0.1** - Fe

Form 3

Blanks

Metals by EPA 6010C

Workorder

R2401280

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 - 6 Month Sampling 2024

06/07/2024

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www.alsglobal.com

Form 3 - Blanks

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

R-ICP-AES-07_833055			ICB		CCB		CCB		CCB		CCB		CCB	
		Run Date	02/21/24		02/21/24		02/21/24		02/21/24		02/21/24		02/21/24	
		Run Time	14:08		19:21		19:37		20:16		20:55		21:21	
		Units	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Analyte	DL	LOQ	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Arsenic	6	10	6	U	6	U	6	U	6	U	6	U	6	U
Iron	70	100	70	U	70	U	70	U	70	U	70	U	70	U
Manganese	4	10	4	U	4	U	4	U	4	U	4	U	4	U

R-ICP-AES-07_833055			CCB		
		Run Date	02/21/24		
		Run Time	21:37		
		Units	ug/L		
Analyte	DL	LOQ	Result	Q	
Arsenic	6	10	6	U	
Iron	70	100	70	U	
Manganese	4	10	4	U	

Q - Result Flag * - Result Outside Limits

Form 3 - Blanks

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

R-ICP-AES-07_833056			ICB		CCB		CCB		CCB		CCB		CCB	
		Run Date	02/21/24		02/21/24		02/21/24		02/21/24		02/21/24		02/21/24	
		Run Time	14:08		21:21		21:37		22:16		22:54		23:07	
		Units	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Analyte	DL	LOQ	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Arsenic	6	10	6	U	6	U	6	U	6	U	6	U	6	U
Iron	70	100	70	U	70	U	70	U	70	U	70	U	70	U
Manganese	4	10	4	U	4	U	4	U	4	U	4	U	4	U

R-ICP-AES-07_833056			CCB		
		Run Date	02/21/24		
		Run Time	23:23		
		Units	ug/L		
Analyte	DL	LOQ	Result	Q	
Arsenic	6	10	6	U	
Iron	70	100	70	U	
Manganese	4	10	4	U	

Form 3 - Blanks

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

R-ICP-AES-07_833186			ICB		CCB		CCB		CCB		CCB		CCB	
		Run Date	02/22/24		02/22/24		02/22/24		02/22/24		02/22/24		02/22/24	
		Run Time	15:25		15:41		16:07		16:42		17:11		17:50	
		Units	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Analyte	DL	LOQ	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Manganese	4	10	4	U	4	U	4	U	4	U	4	U	4	U

R-ICP-AES-07_833186			CCB		
		Run Date	02/22/24		
		Run Time	18:16		
		Units	ug/L		
Analyte	DL	LOQ	Result	Q	
Manganese	4	10	4	U	

Form 3 - Blanks

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

R-ICP-AES-07_833320			ICB		CCB		CCB		CCB		
		Run Date	02/23/24		02/23/24		02/23/24		02/23/24		
		Run Time	13:40		13:56		14:35		15:01		
		Units	ug/L		ug/L		ug/L		ug/L		
Analyte	DL	LOQ	Result	Q	Result	Q	Result	Q	Result	Q	
Iron	70	100	70	U	70	U	70	U	70	U	

right solutions.
right partner.

Analysis Run Log

Metals by EPA 6010C

Workorder

R2401280

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 - 6 Month Sampling 2024

06/07/2024

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www.alsglobal.com

Form 14 - Analysis Run Log

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

R-ICP-AES-07_833055	Instrument ID	Start Date	End Date
	R-ICP-AES-07	02/21/24	02/21/24

Time	Sample ID	DF	Analytes
14:05	Initial Cal. Verif. (ICV)	1	As,Fe,Mn
14:08	Initial Cal. Blank (ICB)	1	As,Fe,Mn
19:18	Cont. Cal. Verif. (CCV)	1	As,Fe,Mn
19:21	Cont. Cal. Blank (CCB)	1	As,Fe,Mn
19:24	Low-Level Cont. Cal. (LLCCV)	1	As,Fe,Mn
19:28	Interf. Check Sol. A (ICSA)	1	As,Fe,Mn
19:31	Interf. Check Sol. AB (ICSAB)	1	As,Fe,Mn
19:34	Cont. Cal. Verif. (CCV)	1	As,Fe,Mn
19:37	Cont. Cal. Blank (CCB)	1	As,Fe,Mn
19:41	Method Blank (MB)	1	As,Fe,Mn
19:44	Lab Control Sample (LCS)	1	As,Fe,Mn
19:47	R2401280-002-OLN-CW013-F007-SMPL	1	As,Fe,Mn
19:50	R2401280-003-OLN-CW13A-F007-SMPL	1	As,Fe,Mn
19:54	R2401280-004-OLN-FB001-B007-SMPL	1	As,Fe,Mn
19:57	R2401280-006-OLN-WW18M-F007-SMPL	1	As,Fe,Mn
20:00	R2401280-008-OLN-RU009-F007-SMPL	1	As,Fe,Mn
20:03	R2401280-009-OLN-RU028-F007-SMPL	1	As,Fe,Mn
20:06	R2401280-010-OLN-RU011-F007-SMPL	1	As,Fe,Mn
20:10	R2401280-011-OLN-RU27A-F007-SMPL	1	As,Fe
20:13	Cont. Cal. Verif. (CCV)	1	As,Fe,Mn
20:16	Cont. Cal. Blank (CCB)	1	As,Fe,Mn
20:19	R2401280-012-OLN-FB002-B007-SMPL	1	As,Fe,Mn
20:23	R2401280-013-OLN-RU015-F007-SMPL	1	As,Fe,Mn
20:26	R2401280-014-OLN-RU016-F007-SMPL	1	As,Fe,Mn
20:29	R2401280-015-OLN-FD001-D007-SMPL	1	As,Fe,Mn
20:32	R2401280-016-OLN-RU020-F007-SMPL	1	As,Fe,Mn
20:35	R2401280-017-OLN-RU019-F007-SMPL	1	As,Fe

Form 14 - Analysis Run Log

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

R-ICP-AES-07_833055	**Instrument ID**	**Start Date**	**End Date**
	R-ICP-AES-07	02/21/24	02/21/24

Time	Sample ID	DF	Analytes
20:39	R2401280-018-OLN-RU021-F007-SMPL	1	As,Mn
20:42	Matrix Spike (MS)	1	As,Mn
20:45	Matrix Spike Duplicate (DMS)	1	As,Mn
20:48	Post-Digestion Spike (PS)	1	As,Mn
20:52	Cont. Cal. Verif. (CCV)	1	As,Fe,Mn
20:55	Cont. Cal. Blank (CCB)	1	As,Fe,Mn
20:58	Serial Dilution (SD)	5	As,Mn
21:01	R2401280-019-OLN-UA002-F007-SMPL	1	As,Fe,Mn
21:05	R2401280-020-OLN-EB001-E007-SMPL	1	As,Fe,Mn
21:08	R2401280-022-OLN-UA003-F007-SMPL	1	As,Fe,Mn
21:11	R2401280-023-OLN-RU008-F007-SMPL	1	As,Fe,Mn
21:14	R2401280-024-OLN-FB003-B007-SMPL	1	As,Fe,Mn
21:17	Cont. Cal. Verif. (CCV)	1	As,Fe,Mn
21:21	Cont. Cal. Blank (CCB)	1	As,Fe,Mn
21:24	Low-Level Cont. Cal. (LLCCV)	1	As,Fe,Mn
21:27	Interf. Check Sol. A (ICSA)	1	As,Fe,Mn
21:30	Interf. Check Sol. AB (ICSAB)	1	As,Fe,Mn
21:34	Cont. Cal. Verif. (CCV)	1	As,Fe,Mn
21:37	Cont. Cal. Blank (CCB)	1	As,Fe,Mn

Form 14 - Analysis Run Log

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

R-ICP-AES-07_833056	**Instrument ID**	**Start Date**	**End Date**
	R-ICP-AES-07	02/21/24	02/21/24

Time	Sample ID	DF	Analytes
14:05	Initial Cal. Verif. (ICV)	1	As,Fe,Mn
14:08	Initial Cal. Blank (ICB)	1	As,Fe,Mn
21:17	Cont. Cal. Verif. (CCV)	1	As,Fe,Mn
21:21	Cont. Cal. Blank (CCB)	1	As,Fe,Mn
21:24	Low-Level Cont. Cal. (LLCCV)	1	As,Fe,Mn
21:27	Interf. Check Sol. A (ICSA)	1	As,Fe,Mn
21:30	Interf. Check Sol. AB (ICSAB)	1	As,Fe,Mn
21:34	Cont. Cal. Verif. (CCV)	1	As,Fe,Mn
21:37	Cont. Cal. Blank (CCB)	1	As,Fe,Mn
21:40	Method Blank (MB)	1	As,Fe,Mn
21:43	Lab Control Sample (LCS)	1	As,Fe,Mn
21:47	R2401280-025-OLN-FD002-D007-SMPL	1	As,Fe,Mn
22:12	Cont. Cal. Verif. (CCV)	1	As,Fe,Mn
22:16	Cont. Cal. Blank (CCB)	1	As,Fe,Mn
22:51	Cont. Cal. Verif. (CCV)	1	As,Fe,Mn
22:54	Cont. Cal. Blank (CCB)	1	As,Fe,Mn
23:04	Cont. Cal. Verif. (CCV)	1	As,Fe,Mn
23:07	Cont. Cal. Blank (CCB)	1	As,Fe,Mn
23:10	Low-Level Cont. Cal. (LLCCV)	1	As,Fe,Mn
23:14	Interf. Check Sol. A (ICSA)	1	As,Fe,Mn
23:17	Interf. Check Sol. AB (ICSAB)	1	As,Fe,Mn
23:20	Cont. Cal. Verif. (CCV)	1	As,Fe,Mn
23:23	Cont. Cal. Blank (CCB)	1	As,Fe,Mn

Form 14 - Analysis Run Log

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

R-ICP-AES-07_833186	Instrument ID	Start Date	End Date
	R-ICP-AES-07	02/22/24	02/22/24

Time	Sample ID	DF	Analytes
15:21	Initial Cal. Verif. (ICV)	1	Mn
15:25	Initial Cal. Blank (ICB)	1	Mn
15:28	Low-Level Cont. Cal. (LLCCV)	1	Mn
15:31	Interf. Check Sol. A (ICSA)	1	Mn
15:34	Interf. Check Sol. AB (ICSAB)	1	Mn
15:38	Cont. Cal. Verif. (CCV)	1	Mn
15:41	Cont. Cal. Blank (CCB)	1	Mn
16:03	Cont. Cal. Verif. (CCV)	1	Mn
16:07	Cont. Cal. Blank (CCB)	1	Mn
16:39	Cont. Cal. Verif. (CCV)	1	Mn
16:42	Cont. Cal. Blank (CCB)	1	Mn
17:08	Cont. Cal. Verif. (CCV)	1	Mn
17:11	Cont. Cal. Blank (CCB)	1	Mn
17:21	R2401280-011-OLN-RU27A-F007-SMPL	100	Mn
17:24	R2401280-017-OLN-RU019-F007-SMPL	20	Mn
17:27	Serial Dilution (SD)	100	Mn
17:47	Cont. Cal. Verif. (CCV)	1	Mn
17:50	Cont. Cal. Blank (CCB)	1	Mn
17:53	Low-Level Cont. Cal. (LLCCV)	1	Mn
17:57	Interf. Check Sol. A (ICSA)	1	Mn
18:00	Interf. Check Sol. AB (ICSAB)	1	Mn
18:13	Cont. Cal. Verif. (CCV)	1	Mn
18:16	Cont. Cal. Blank (CCB)	1	Mn

Form 14 - Analysis Run Log

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**

Metals by EPA 6010C (P)

R-ICP-AES-07_833320	**Instrument ID**	**Start Date**	**End Date**
	R-ICP-AES-07	02/23/24	02/23/24

Time	Sample ID	DF	Analytes
13:37	Initial Cal. Verif. (ICV)	1	Fe
13:40	Initial Cal. Blank (ICB)	1	Fe
13:43	Low-Level Cont. Cal. (LLCCV)	1	Fe
13:47	Interf. Check Sol. A (ICSA)	1	Fe
13:50	Interf. Check Sol. AB (ICSAB)	1	Fe
13:53	Cont. Cal. Verif. (CCV)	1	Fe
13:56	Cont. Cal. Blank (CCB)	1	Fe
14:16	R2401280-018-OLN-RU021-F007-SMPL	20	Fe
14:19	Matrix Spike (MS)	20	Fe
14:22	Matrix Spike Duplicate (DMS)	20	Fe
14:25	Post-Digestion Spike (PS)	20	Fe
14:29	Serial Dilution (SD)	100	Fe
14:32	Cont. Cal. Verif. (CCV)	1	Fe
14:35	Cont. Cal. Blank (CCB)	1	Fe
14:38	Low-Level Cont. Cal. (LLCCV)	1	Fe
14:42	Interf. Check Sol. A (ICSA)	1	Fe
14:45	Interf. Check Sol. AB (ICSAB)	1	Fe
14:58	Cont. Cal. Verif. (CCV)	1	Fe
15:01	Cont. Cal. Blank (CCB)	1	Fe

right solutions.
right partner.

Preparation Log

EPA 3005A/3010A

Workorder

R2401280

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 - 6 Month Sampling 2024

06/07/2024

ALS Environmental–Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Form 13 - Preparation Log

Client Civil & Environmental Consultants, Incorporated (CEC)

Project Olean OU3 - 6 Month Sampling 2024

Workorder **R2401280**

Metals by EPA 6010C (P)

Prep Batch 434254 **Prep Date** 02/20/24

	Matrix	Type	Lab Sample ID	Initial Amt mL	Final Amt mL	Client Sample ID
1	Water	MB	R2401280-MB1	50	50	Method Blank
2	Water	LCS	R2401280-LCS1	50	50	Lab Control Sample
3	Water	SMPL	R2401280-002	50	50	OLN-CW013-F007
4	Water	SMPL	R2401280-003	50	50	OLN-CW13A-F007
5	Water	SMPL	R2401280-004	50	50	OLN-FB001-B007
6	Water	SMPL	R2401280-006	50	50	OLN-WW18M-F007
7	Water	SMPL	R2401280-008	50	50	OLN-RU009-F007
8	Water	SMPL	R2401280-009	50	50	OLN-RU028-F007
9	Water	SMPL	R2401280-010	50	50	OLN-RU011-F007
10	Water	SMPL	R2401280-011	50	50	OLN-RU27A-F007
11	Water	SMPL	R2401280-012	50	50	OLN-FB002-B007
12	Water	SMPL	R2401280-013	50	50	OLN-RU015-F007
13	Water	SMPL	R2401280-014	50	50	OLN-RU016-F007
14	Water	SMPL	R2401280-015	50	50	OLN-FD001-D007
15	Water	SMPL	R2401280-016	50	50	OLN-RU020-F007
16	Water	SMPL	R2401280-017	50	50	OLN-RU019-F007
17	Water	SMPL	R2401280-018	50	50	OLN-RU021-F007
18	Water	DMS	R2401280-018DMS	50	50	OLN-RU021-F007
19	Water	MS	R2401280-018MS	50	50	OLN-RU021-F007
20	Water	SMPL	R2401280-019	50	50	OLN-UA002-F007
21	Water	SMPL	R2401280-020	50	50	OLN-EB001-E007
22	Water	SMPL	R2401280-022	50	50	OLN-UA003-F007
23	Water	SMPL	R2401280-023	50	50	OLN-RU008-F007
24	Water	SMPL	R2401280-024	50	50	OLN-FB003-B007

Form 13 - Preparation Log

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 - 6 Month Sampling 2024	**R2401280**	

Metals by EPA 6010C (P)

Prep Batch 434255 **Prep Date** 02/20/24

	Matrix	Type	Lab Sample ID	Initial Amt mL	Final Amt mL	Client Sample ID
1	Water	MB	R2401280-MB2	50	50	Method Blank
2	Water	LCS	R2401280-LCS2	50	50	Lab Control Sample
3	Water	SMPL	R2401280-025	50	50	OLN-FD002-D007

General Chemistry

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/12/24 14:32
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-CW013-F007	**Basis:**	NA
Lab Code:	R2401280-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	**13.2**	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	**33.4**	mg/L	4.0	0.8	20	02/27/24 13:59	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/12/24 14:52
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-CW13A-F007	**Basis:**	NA
Lab Code:	R2401280-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	**22.6**	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	**80.9**	mg/L	2.0	0.4	10	02/26/24 19:43	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/12/24 15:15
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FB001-B007	**Basis:**	NA
Lab Code:	R2401280-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	**3.8 J**	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	2.0 U	mg/L	2.0	0.4	10	02/26/24 20:10	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 08:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-WW18M-F007	**Basis:**	NA
Lab Code:	R2401280-006		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	5.0 U	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	**23.6**	mg/L	2.0	0.4	10	02/26/24 20:17	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 11:36
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU009-F007	**Basis:**	NA
Lab Code:	R2401280-008		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	**6.5**	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	**42.6**	mg/L	2.0	0.4	10	02/26/24 20:39	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 12:27
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU028-F007	**Basis:**	NA
Lab Code:	R2401280-009		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	**6.2**	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	**23.4**	mg/L	2.0	0.4	10	02/26/24 20:46	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 13:32
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU011-F007	**Basis:**	NA
Lab Code:	R2401280-010		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	**4.8 J**	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	**33.7**	mg/L	2.0	0.4	10	02/26/24 20:53	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 14:41
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU27A-F007	**Basis:**	NA
Lab Code:	R2401280-011		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	**749**	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	2.0 U	mg/L	2.0	0.4	10	02/26/24 21:00	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 15:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FB002-B007	**Basis:**	NA
Lab Code:	R2401280-012		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	**4.8 J**	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	2.0 U	mg/L	2.0	0.4	10	02/26/24 21:07	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 15:45
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU015-F007	**Basis:**	NA
Lab Code:	R2401280-013		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	**27.3**	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	**28.5**	mg/L	2.0	0.4	10	02/27/24 06:43	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 17:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU016-F007	**Basis:**	NA
Lab Code:	R2401280-014		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	**27.6**	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	**63.2**	mg/L	2.0	0.4	10	02/27/24 06:50	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 22:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FD001-D007	**Basis:**	NA
Lab Code:	R2401280-015		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	**26.2**	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	**28.2**	mg/L	2.0	0.4	10	02/27/24 06:57	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 12:25
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU020-F007	**Basis:**	NA
Lab Code:	R2401280-016		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	**38.9**	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	**65.7**	mg/L	2.0	0.4	10	02/27/24 07:04	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 13:30
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU019-F007	**Basis:**	NA
Lab Code:	R2401280-017		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	**614**	mg/L	5.0	3.8	1	02/22/24 13:38	
Sulfate	300.0	**370**	mg/L	8.0	1.6	40	02/28/24 10:14	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 15:38
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU021-F007	**Basis:**	NA
Lab Code:	R2401280-018		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	**259**	mg/L	5.0	3.8	1	02/22/24 13:38	
Sulfate	300.0	**248**	mg/L	8.0	1.6	40	02/28/24 10:21	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 17:03
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-UA002-F007	**Basis:**	NA
Lab Code:	R2401280-019		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	**8.6**	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	**46.1**	mg/L	2.0	0.4	10	02/27/24 07:38	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/13/24 17:30
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-EB001-E007	**Basis:**	NA
Lab Code:	R2401280-020		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	5.0 U	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	**0.5 J**	mg/L	2.0	0.4	10	02/27/24 07:58	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/14/24 09:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-UA003-F007	**Basis:**	NA
Lab Code:	R2401280-022		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	**24.4**	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	**9.6**	mg/L	2.0	0.4	10	02/27/24 08:05	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/14/24 08:31
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-RU008-F007	**Basis:**	NA
Lab Code:	R2401280-023		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	5.0 U	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	**35.9**	mg/L	2.0	0.4	10	02/27/24 08:12	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/14/24 09:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FB003-B007	**Basis:**	NA
Lab Code:	R2401280-024		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	5.0 U	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	2.0 U	mg/L	2.0	0.4	10	02/27/24 08:19	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2401280
Project:	Olean OU3 - 6 Month Sampling 2024/300-082.0041	**Date Collected:**	02/14/24 22:00
Sample Matrix:	Water	**Date Received:**	02/15/24 10:56
Sample Name:	OLN-FD002-D007	**Basis:**	NA
Lab Code:	R2401280-025		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	410.4	**3.8 J**	mg/L	5.0	3.8	1	02/21/24 16:18	
Sulfate	300.0	**35.3**	mg/L	2.0	0.4	10	02/27/24 08:26	

Analytical Results Summary

Instrument Name: R-UV-VIS-06 **Analyst:** SDUBE **Analysis Lot:** 832646 **Method/Testcode:** 410.4/COD T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ2401903-01	Chemical Oxygen Demand, Total	CCV		Water	510.61 mg/L	2 mL	511 mg/L	1					2/21/24 16:18	N	II
RQ2401903-02	Chemical Oxygen Demand, Total	CCB		Water	-2.67 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			2/21/24 16:18	N	II
RQ2401903-03	Chemical Oxygen Demand, Total	LCS		Water	510.61 mg/L	2 mL	511 mg/L	1	3.8	5.0	102		2/21/24 16:18	N	II
RQ2401903-04	Chemical Oxygen Demand, Total	MB		Water	-2.67 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			2/21/24 16:18	N	II
R2401327-001	Chemical Oxygen Demand, Total	N/A		Water	797.06 mg/L	2 mL	797 mg/L	1	3.8	5.0			2/21/24 16:18	N	II
R2401371-001	Chemical Oxygen Demand, Total	N/A		Water	233.41 mg/L	2 mL	233 mg/L	1	3.8	5.0			2/21/24 16:18	N	II
R2401194-001	Chemical Oxygen Demand, Total	N/A		Water	156.57 mg/L	2 mL	157 mg/L	1	3.8	5.0			2/21/24 16:18	N	II
R2401254-001	Chemical Oxygen Demand, Total	N/A		Water	667.84 mg/L	2 mL	668 mg/L	10	38	50			2/21/24 16:18	N	II
R2401257-001	Chemical Oxygen Demand, Total	N/A		Water	157.74 mg/L	2 mL	158 mg/L	1	3.8	5.0			2/21/24 16:18	N	II
RQ2401903-05	Chemical Oxygen Demand, Total	MS	R2401257-001	Water	517.32 mg/L	2 mL	517 mg/L	1	3.8	5.0	96		2/21/24 16:18	N	II
RQ2401903-06	Chemical Oxygen Demand, Total	DMS	R2401257-001	Water	520.69 mg/L	2 mL	521 mg/L	1	3.8	5.0	97	<1	2/21/24 16:18	N	II
RQ2401903-07	Chemical Oxygen Demand, Total	CCV		Water	513.96 mg/L	2 mL	514 mg/L	1					2/21/24 16:18	N	II
RQ2401903-08	Chemical Oxygen Demand, Total	CCB		Water	-4.67 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			2/21/24 16:18	N	II
R2401258-001	Chemical Oxygen Demand, Total	N/A		Water	1904.05 mg/L	2 mL	1900 mg/L	1	3.8	5.0			2/21/24 16:18	N	II
R2401258-002	Chemical Oxygen Demand, Total	N/A		Water	565.59 mg/L	2 mL	566 mg/L	1	3.8	5.0			2/21/24 16:18	N	II
R2401259-002	Chemical Oxygen Demand, Total	N/A		Water	250.03 mg/L	2 mL	250 mg/L	1	3.8	5.0			2/21/24 16:18	N	II
RQ2401903-09	Chemical Oxygen Demand, Total	MS	R2401259-002	Water	612.60 mg/L	2 mL	613 mg/L	1	3.8	5.0	97		2/21/24 16:18	N	II
RQ2401903-10	Chemical Oxygen Demand, Total	DMS	R2401259-002	Water	610.76 mg/L	2 mL	611 mg/L	1	3.8	5.0	96	<1	2/21/24 16:18	N	II
R2401279-001	Chemical Oxygen Demand, Total	N/A		Water	4149.98 mg/L	2 mL	4150 mg/L	10	38	50			2/21/24 16:18	N	II
R2401282-001	Chemical Oxygen Demand, Total	N/A		Water	640.77 mg/L	2 mL	641 mg/L	1	3.8	5.0			2/21/24 16:18	N	II
R2401311-001	Chemical Oxygen Demand, Total	N/A		Water	4180.43 mg/L	2 mL	4180 mg/L	10	38	50			2/21/24 16:18	N	II
R2401360-001	Chemical Oxygen Demand, Total	N/A		Water	578.03 mg/L	2 mL	578 mg/L	1	3.8	5.0			2/21/24 16:18	N	II
R2401280-011	Chemical Oxygen Demand, Total	N/A		Water	749.25 mg/L	2 mL	749 mg/L	1	3.8	5.0			2/21/24 16:18	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-UV-VIS-06 **Analyst:** SDUBE **Analysis Lot:** 832646 **Method/Testcode:** 410.4/COD T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ2401903-11	Chemical Oxygen Demand, Total	CCV		Water	507.27 mg/L	2 mL	507 mg/L	1					2/21/24 16:18	N	IV
RQ2401903-12	Chemical Oxygen Demand, Total	CCB		Water	-2.67 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			2/21/24 16:18	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-UV-VIS-06 **Analyst:** SDUBE **Analysis Lot:** 832925 **Method/Testcode:** 410.4/COD T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ2401904-01	Chemical Oxygen Demand, Total	CCV		Water	49.82 mg/L	2 mL	49.8 mg/L	1					2/21/24 16:18	N	II
RQ2401904-02	Chemical Oxygen Demand, Total	CCB		Water	-1.12 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			2/21/24 16:18	N	II
RQ2401904-03	Chemical Oxygen Demand, Total	LCS		Water	49.82 mg/L	2 mL	49.8 mg/L	1	3.8	5.0	100		2/21/24 16:18	N	II
RQ2401904-04	Chemical Oxygen Demand, Total	MB		Water	-1.12 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			2/21/24 16:18	N	II
R2401295-001	Chemical Oxygen Demand, Total	N/A		Water	37.52 mg/L	2 mL	37.5 mg/L	1	3.8	5.0			2/21/24 16:18	N	II
R2401282-002	Chemical Oxygen Demand, Total	N/A		Water	43.15 mg/L	2 mL	43.1 mg/L	1	3.8	5.0			2/21/24 16:18	N	II
R2401360-002	Chemical Oxygen Demand, Total	N/A		Water	54.26 mg/L	2 mL	54.3 mg/L	1	3.8	5.0			2/21/24 16:18	N	II
R2401289-002	Chemical Oxygen Demand, Total	N/A		Water	17.11 mg/L	2 mL	50 mg/L U	10	38	50			2/21/24 16:18	N	II
R2401296-001	Chemical Oxygen Demand, Total	N/A		Water	30.81 mg/L	2 mL	30.8 mg/L	1	3.8	5.0			2/21/24 16:18	N	II
R2401293-001	Chemical Oxygen Demand, Total	N/A		Water	0.30 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			2/21/24 16:18	N	II
RQ2401904-05	Chemical Oxygen Demand, Total	MS	R2401293-001	Water	25.27 mg/L	2 mL	25.3 mg/L	1	3.8	5.0	101		2/21/24 16:18	N	II
RQ2401904-06	Chemical Oxygen Demand, Total	DMS	R2401293-001	Water	27.92 mg/L	2 mL	27.9 mg/L	1	3.8	5.0	112*	10	2/21/24 16:18	N	II
RQ2401904-07	Chemical Oxygen Demand, Total	CCV		Water	49.32 mg/L	2 mL	49.3 mg/L	1					2/21/24 16:18	N	II
RQ2401904-08	Chemical Oxygen Demand, Total	CCB		Water	0.30 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			2/21/24 16:18	N	II
R2401294-001	Chemical Oxygen Demand, Total	N/A		Water	-3.65 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			2/21/24 16:18	N	II
R2401325-001	Chemical Oxygen Demand, Total	N/A		Water	1.71 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			2/21/24 16:18	N	II
R2401325-002	Chemical Oxygen Demand, Total	N/A		Water	0.65 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			2/21/24 16:18	N	II
R2401280-002	Chemical Oxygen Demand, Total	N/A		Water	13.17 mg/L	2 mL	13.2 mg/L	1	3.8	5.0			2/21/24 16:18	N	IV
R2401280-003	Chemical Oxygen Demand, Total	N/A		Water	22.57 mg/L	2 mL	22.6 mg/L	1	3.8	5.0			2/21/24 16:18	N	IV
R2401280-004	Chemical Oxygen Demand, Total	N/A		Water	3.80 mg/L	2 mL	3.8 mg/L J	1	3.8	5.0			2/21/24 16:18	N	IV
R2401280-006	Chemical Oxygen Demand, Total	N/A		Water	3.11 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			2/21/24 16:18	N	IV
R2401280-008	Chemical Oxygen Demand, Total	N/A		Water	6.54 mg/L	2 mL	6.5 mg/L	1	3.8	5.0			2/21/24 16:18	N	IV
RQ2401904-09	Chemical Oxygen Demand, Total	MS	R2401280-008	Water	31.10 mg/L	2 mL	31.1 mg/L	1	3.8	5.0	98		2/21/24 16:18	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-UV-VIS-06 **Analyst:** SDUBE **Analysis Lot:** 832925 **Method/Testcode:** 410.4/COD T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ2401904-10	Chemical Oxygen Demand, Total	DMS	R2401280-008	Water	28.21 mg/L	2 mL	28.2 mg/L	1	3.8	5.0	87*	10	2/21/24 16:18	N	IV
RQ2401904-11	Chemical Oxygen Demand, Total	CCV		Water	51.31 mg/L	2 mL	51.3 mg/L	1					2/21/24 16:18	N	IV
RQ2401904-12	Chemical Oxygen Demand, Total	CCB		Water	0.30 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			2/21/24 16:18	N	IV
R2401280-009	Chemical Oxygen Demand, Total	N/A		Water	6.20 mg/L	2 mL	6.2 mg/L	1	3.8	5.0			2/21/24 16:18	N	IV
R2401280-010	Chemical Oxygen Demand, Total	N/A		Water	4.83 mg/L	2 mL	4.8 mg/L J	1	3.8	5.0			2/21/24 16:18	N	IV
R2401280-012	Chemical Oxygen Demand, Total	N/A		Water	4.83 mg/L	2 mL	4.8 mg/L J	1	3.8	5.0			2/21/24 16:18	N	IV
R2401280-013	Chemical Oxygen Demand, Total	N/A		Water	27.34 mg/L	2 mL	27.3 mg/L	1	3.8	5.0			2/21/24 16:18	N	IV
R2401280-014	Chemical Oxygen Demand, Total	N/A		Water	27.63 mg/L	2 mL	27.6 mg/L	1	3.8	5.0			2/21/24 16:18	N	IV
RQ2401904-13	Chemical Oxygen Demand, Total	CCV		Water	51.56 mg/L	2 mL	51.6 mg/L	1					2/21/24 16:18	N	IV
RQ2401904-14	Chemical Oxygen Demand, Total	CCB		Water	-1.48 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			2/21/24 16:18	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-UV-VIS-06 **Analyst:** SDUBE **Analysis Lot:** 832926 **Method/Testcode:** 410.4/COD T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2401909-01	Chemical Oxygen Demand, Total	CCV		Water	51.31 mg/L	2 mL	51.3 mg/L	1					2/21/24 16:18	N	IV
KQ2401909-02	Chemical Oxygen Demand, Total	CCB		Water	0.30 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			2/21/24 16:18	N	IV
KQ2401909-03	Chemical Oxygen Demand, Total	LCS		Water	51.31 mg/L	2 mL	51.3 mg/L	1	3.8	5.0	103		2/21/24 16:18	N	IV
KQ2401909-04	Chemical Oxygen Demand, Total	MB		Water	0.30 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			2/21/24 16:18	N	IV
K2401280-015	Chemical Oxygen Demand, Total	N/A		Water	26.16 mg/L	2 mL	26.2 mg/L	1	3.8	5.0			2/21/24 16:18	N	IV
K2401280-016	Chemical Oxygen Demand, Total	N/A		Water	38.88 mg/L	2 mL	38.9 mg/L	1	3.8	5.0			2/21/24 16:18	N	IV
KQ2401909-05	Chemical Oxygen Demand, Total	MS	R2401280-016	Water	57.15 mg/L	2 mL	57.1 mg/L	1	3.8	5.0	73*		2/21/24 16:18	N	IV
KQ2401909-06	Chemical Oxygen Demand, Total	DMS	R2401280-016	Water	54.99 mg/L	2 mL	55.0 mg/L	1	3.8	5.0	64*	4	2/21/24 16:18	N	IV
KQ2401909-07	Chemical Oxygen Demand, Total	CCV		Water	51.56 mg/L	2 mL	51.6 mg/L	1					2/21/24 16:18	N	IV
KQ2401909-08	Chemical Oxygen Demand, Total	CCB		Water	-1.48 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			2/21/24 16:18	N	IV
K2401280-019	Chemical Oxygen Demand, Total	N/A		Water	8.56 mg/L	2 mL	8.6 mg/L	1	3.8	5.0			2/21/24 16:18	N	IV
K2401280-020	Chemical Oxygen Demand, Total	N/A		Water	2.76 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			2/21/24 16:18	N	IV
K2401280-022	Chemical Oxygen Demand, Total	N/A		Water	24.37 mg/L	2 mL	24.4 mg/L	1	3.8	5.0			2/21/24 16:18	N	IV
K2401280-023	Chemical Oxygen Demand, Total	N/A		Water	-0.41 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			2/21/24 16:18	N	IV
K2401280-024	Chemical Oxygen Demand, Total	N/A		Water	-0.05 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			2/21/24 16:18	N	IV
K2401280-025	Chemical Oxygen Demand, Total	N/A		Water	3.80 mg/L	2 mL	3.8 mg/L J	1	3.8	5.0			2/21/24 16:18	N	IV
KQ2401909-09	Chemical Oxygen Demand, Total	CCV		Water	49.57 mg/L	2 mL	49.6 mg/L	1					2/21/24 16:18	N	IV
KQ2401909-10	Chemical Oxygen Demand, Total	CCB		Water	-2.56 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			2/21/24 16:18	N	IV
K2401303-001	Chemical Oxygen Demand, Total	N/A		Water	-9.20 mg/L	2 mL	25 mg/L U	5	19	25			2/21/24 16:18	N	IV
K2401303-002	Chemical Oxygen Demand, Total	N/A		Water	-2.05 mg/L	2 mL	25 mg/L U	5	19	25			2/21/24 16:18	N	IV
K2401372-001	Chemical Oxygen Demand, Total	N/A		Water	15.54 mg/L	2 mL	25 mg/L U	5	19	25			2/21/24 16:18	N	IV
K2401372-002	Chemical Oxygen Demand, Total	N/A		Water	-9.20 mg/L	2 mL	25 mg/L U	5	19	25			2/21/24 16:18	N	IV
K2401372-005	Chemical Oxygen Demand, Total	N/A		Water	-2.05 mg/L	2 mL	25 mg/L U	5	19	25			2/21/24 16:18	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-UV-VIS-06 **Analyst:** SDUBE **Analysis Lot:** 832926 **Method/Testcode:** 410.4/COD T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R2401372-006	Chemical Oxygen Demand, Total	N/A		Water	-5.62 mg/L	2 mL	25 mg/L U	5	19	25			2/21/24 16:18	N	IV
R2401372-007	Chemical Oxygen Demand, Total	N/A		Water	-7.41 mg/L	2 mL	25 mg/L U	5	19	25			2/21/24 16:18	N	IV
R2401372-008	Chemical Oxygen Demand, Total	N/A		Water	-2.05 mg/L	2 mL	25 mg/L U	5	19	25			2/21/24 16:18	N	IV
RQ2401909-11	Chemical Oxygen Demand, Total	CCV		Water	49.06 mg/L	2 mL	49.1 mg/L	1					2/21/24 16:18	N	IV
RQ2401909-12	Chemical Oxygen Demand, Total	CCB		Water	-2.56 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			2/21/24 16:18	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Sample Dilutions

Final Volume: 8-10mL - COD

Analyst: SD
Instrument: ~~GF~~ R-WW-VIS-06
SD 2/21/24

Date 2/21/24
Analysis COD

Common Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor
1/2		4	4	1/2												
1/3		3	6	1/3												
1/4		2	6	1/4												
1/5		2	8	1/5												
1/10		1	9	1/10												
1/20		1	1	1/2	1	9	1/20									
1/30		3	6	1/3	1	9	1/30									
1/40		1	3	1/4	1	9	1/40									
1/50		1	4	1/5	1	9	1/50									
1/100		1	9	1/10	1	9	1/100									
1/200		1	1	1/2	1	9	1/20	1	9	1/200						
1/300		3	6	1/3	1	9	1/30	1	9	1/300						
1/400		1	3	1/4	1	9	1/40	1	9	1/400						
1/500		1	4	1/5	1	9	1/50	1	9	1/500						
1/1000		1	9	1/10	1	9	1/100	1	9	1/1000						
1/2000		1	1	1/2	1	9	1/20	1	9	1/200	1	9	1/2000			
1/3000		3	6	1/3	1	9	1/30	1	9	1/300	1	9	1/3000			
1/4000		1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000			
1/10000		1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000			
1/20000		1	1	1/2	1	9	1/20	1	9	1/200	1	9	1/2000	1	9	1/20000
1/40000		1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000	1	9	1/40000
1/100000		1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000	1	9	1/100000

Special Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor
1/5	DI	2	8	1/5												
1/10	DI	1	9	1/10												

Analyte: Chemical Oxygen Demand Analyst: SD

Method: 410.4 Manual Colorimetric Date: 2/21/2024

Spectrophotometer: MR21D Time: 16:18

Pipette(s): MAGNUS/HULK

Calibration: DOD Pipette Verification: N/A

Std	Conc.	% T.	Log % T.	mg/l
1	2000	13.7	1.137	1988.146
2	1500	22.1	1.344	1509.232
3	900	40.3	1.605	907.538
4	500	60.0	1.778	508.936
5	200	82.0	1.914	196.083
6	100	90.7	1.958	95.090
7	50	95.1	1.978	47.646
8	0	100.0	2.000	-2.672
9				
10				

Block 3 = 150°C. Verified Annually

Therm ID

COD Block 1: 272

COD Block 2: 273

Run Vial Lot #: 233178

Run Vial Check Date: 1/19/2024

Calibration Vial Lot #: 229115

C.C = -0.9999471 %RE low 4.7

y-int. = 1.9988414 %RE mid 0.6

Slope: -0.0004336

Wavelength: 620

Curve Date: 7/20/2023

Last LCR Verif: 1/17/2024 (due 6 months)

	1	2	3
Start Time:	14:18		
End Time:	16:18		
Block 1 (°C):	150		
Block 2 (°C):	150		

Block ID	Vial ID	Misc.	Order #	% T.	Log % T.	Result mg/L	Dilution	Final Result mg/L	Comments
		TV=500	ICV	60.3	1.780	503.9407	1.00	503.941	100.8
			ICB	100.0	2.000	-2.6718	1.00	-2.672	
2	1	TV=500	CCV/LCS	59.9	1.777	510.6065	1.00	510.607	102.1
2	2		CCB/MB	100.0	2.000	-2.6718	1.00	-2.672	
2	3	RAN LL	R2401295-001	96.4	1.984	34.0483	1.00	34.048	
2	4		R2401327-001	45.0	1.653	797.0584	1.00	797.058	
2	5	RAN LL	R2401282-002	95.8	1.981	40.3014	1.00	40.301	
2	6		R2401371-001	79.0	1.898	233.4114	1.00	233.411	
2	7	RAN LL	R2401360-002	94.2	1.974	57.1697	1.00	57.170	
2	8		R2401194-001	85.3	1.931	156.5674	1.00	156.567	
2	9		R2401254-001	93.3	1.970	66.7845	10.00	667.845	
2	10		R2401257-001	85.2	1.930	157.7422	1.00	157.742	
2	11		R2401257-001 MS	59.5	1.775	517.3170	1.00	517.317	
2	12		R2401257-001 DMS	59.3	1.773	520.6891	1.00	520.689	
2	13	TV=500	CCV/LCS	59.7	1.776	513.9561	1.00	513.956	102.8
2	14		CCB/MB	100.2	2.001	-4.6729	1.00	-4.673	
2	15		R2401258-001	14.9	1.173	1904.0519	1.00	1904.052	
2	16		R2401258-002	56.7	1.754	565.5929	1.00	565.593	
2	17		R2401259-002	77.7	1.890	250.0294	1.00	250.029	
2	18		R2401259-002 MS	54.1	1.733	612.6047	1.00	612.605	
2	19		R2401259-002 DMS	54.2	1.734	610.7552	1.00	610.755	
2	20		R2401279-001	65.9	1.819	414.9984	10.00	4149.984	
2	21		R2401282-001	52.6	1.721	640.7659	1.00	640.766	
2	22		R2401311-001	65.7	1.818	418.0426	10.00	4180.426	
2	23		R2401360-001	56.0	1.748	578.0344	1.00	578.034	
1	24		R2401280-011	47.2	1.674	749.2539	1.00	749.254	
2	25	TV=500	CCV/LCS	60.1	1.779	507.2681	1.00	507.268	101.5
2	26		CCB/MB	100.0	2.000	-2.6718	1.00	-2.672	

Analyte: Chemical Oxygen Demand
Method: 410.4 Manual Colorimetric
Spectrophotometer: MR21D

Analyst: SD
Date: 2/21/2024
Time: 16:18
Pipette(s): MAGNUS/HULK
DOD Pipette Verification: N/A

Therm ID
COD Block 1: 272
COD Block 2: 273
Run Vial Lot #: 233066
Date of Run Lot Check: 1/17/2024
Calibration Vial Lot: 229608
C.C = 0.998170 %RE low 37.9
y-int. = 1.605469 %RE mid 1.4
Slope: 0.003034
Wavelength: 420
Curve Date: 7/20/2023
Last LCR Verif: 1/17/2024 (due 6 months)

Calibration:

Std	Conc.	% T.	Log % T.	mg/l
1	100	81.1	1.909	100.037
2	70	65.3	1.815	69.023
3	40	53.9	1.732	41.563
4	20	45.8	1.661	18.256
5	10	44.7	1.650	14.777
6	5	41.2	1.615	3.107
7	2	40.7	1.610	1.360
8	0	40.0	1.602	-1.123
9				
10				

Block 3 = 150°C Verified annually

	1	2	3
Start Time:	14:18		
End Time:	16:18		
Block 1 (°C):	150		
Block 2 (°C):			

Block ID	Vial ID	Misc.	Order #	% T.	Log % T.	Result mg/L	Dilution	Final Result mg/L	Comments
		TV=50	ICV	56.9	1.755	49.3156	1.00	49.316	98.6
			ICB	40.0	1.602	-1.1234	1.00	-1.123	
3	1		CCV/LCS	57.1	1.757	49.8178	1.00	49.818	99.6
3	2		CCB/MB	40.0	1.602	-1.1234	1.00	-1.123	
3	3		R2401295-001	52.4	1.719	37.5239	1.00	37.524	
3	4	RAN HL	R2401327-001	139.2	2.144	177.3563	1.00	177.356	Repeat
3	5		R2401282-002	54.5	1.736	43.1478	1.00	43.148	
3	6	RAN HL	R2401371-001	148.4	2.171	186.5162	1.00	186.516	Repeat
3	7		R2401360-002	58.9	1.770	54.2600	1.00	54.260	
3	8		R2401289-002	40.8	1.611	1.7108	10.00	17.108	
3	9		R2401296-001	50.0	1.699	30.8137	1.00	30.814	
3	10		R2401293-001	40.4	1.606	0.3008	1.00	0.301	
3	11		R2401293-001 MS	48.1	1.682	25.2690	1.00	25.269	
3	12		R2401293-001 DMS	49.0	1.690	27.9222	1.00	27.922	
3	13		CCV/LCS	56.9	1.755	49.3156	1.00	49.316	98.6
3	14		CCB/MB	40.4	1.606	0.3008	1.00	0.301	
3	15		R2401294-001	39.3	1.594	-3.6502	1.00	-3.650	
3	16		R2401325-001	40.8	1.611	1.7108	1.00	1.711	
3	17		R2401325-002	40.5	1.607	0.6546	1.00	0.655	
3	18		R2401280-002	44.2	1.645	13.1668	1.00	13.167	
3	19		R2401280-003	47.2	1.674	22.5656	1.00	22.566	
3	20		R2401280-004	41.4	1.617	3.8003	1.00	3.800	
3	21		R2401280-006	41.2	1.615	3.1072	1.00	3.107	
3	22		R2401280-008	42.2	1.625	6.5396	1.00	6.540	
3	23		R2401280-008 MS	50.1	1.700	31.0997	1.00	31.100	
3	24		R2401280-008 DMS	49.1	1.691	28.2140	1.00	28.214	
3	25		CCV/LCS	57.7	1.761	51.3139	1.00	51.314	102.6
3	26		CCB/MB	40.4	1.606	0.3008	1.00	0.301	
3	27		R2401280-009	42.1	1.624	6.2000	1.00	6.200	
3	28		R2401280-010	41.7	1.620	4.8337	1.00	4.834	
3	29	RAN HL	R2401280-011	147.3	2.168	185.4514	1.00	185.451	Repeat
3	30		R2401280-012	41.7	1.620	4.8337	1.00	4.834	
3	31		R2401280-013	48.8	1.688	27.3369	1.00	27.337	
3	32		R2401280-014	48.9	1.689	27.6299	1.00	27.630	
3	33		R2401280-015	48.4	1.685	26.1589	1.00	26.159	

Analyte: Chemical Oxygen Demand Analyst: SD
Method: 410.4 Manual Colorimetric Date: 2/21/2024
Spectrophotometer: MR21D Time: 16:18
Pipette(s): MAGNUS/HULK
Calibration: DOD Pipette Verification: N/A

Std	Conc.	% T.	Log % T.	mg/l
1	100	81.1	1.909	100.037
2	70	65.3	1.815	69.023
3	40	53.9	1.732	41.563
4	20	45.8	1.661	18.256
5	10	44.7	1.650	14.777
6	5	41.2	1.615	3.107
7	2	40.7	1.610	1.360
8	0	40.0	1.602	-1.123
9				
10				

Block 3 = 150°C Verified annually

Therm ID
COD Block 1: 272
COD Block 2: 273
Run Vial Lot #: 233066
Date of Run Lot Check: 1/17/2024
Calibration Vial Lot: 229608
C.C = 0.998170 %RE low 37.9
y-int. = 1.605469 %RE mid 1.4
Slope: 0.003034
Wavelength: 420
Curve Date: 7/20/2023
Last LCR Verif: 1/17/2024 (due 6 months)

	1	2	3
Start Time:	14:18		
End Time:	16:18		
Block 1 (°C):	150		
Block 2 (°C):			

Block ID	Vial ID	Misc.	Order #	% T.	Log % T.	Result mg/L	Dilution	Final Result mg/L	Comments
3	34		R2401280-016	52.9	1.723	38.8831	1.00	38.883	
3	35		R2401280-016 MS	60.1	1.779	57.1466	1.00	57.147	
3	36		R2401280-016 DMS	59.2	1.772	54.9871	1.00	54.987	
3	37		CCV/LCS	57.8	1.762	51.5617	1.00	51.562	103.1
3	38		CCB/MB	39.9	1.601	-1.4816	1.00	-1.482	
3	39	NEED HL	R2401280-017	147.6	2.169	185.7425	1.00	185.743	Repeat
3	40	NEED HL	R2401280-018	146.9	2.167	185.0622	1.00	185.062	Repeat
3	41	DNR	R2401280-018 MS!	147.1	2.168	185.2569	1.00	185.257	Repeat
3	42	DNR	R2401280-018 DMS!	147.3	2.168	185.4514	1.00	185.451	Repeat
3	43		R2401280-019	42.8	1.631	8.5602	1.00	8.560	
3	44		R2401280-020	41.1	1.614	2.7594	1.00	2.759	
3	45		R2401280-022	47.8	1.679	24.3735	1.00	24.374	
3	46		R2401280-023	40.2	1.604	-0.4095	1.00	-0.410	
3	47		R2401280-024	40.3	1.605	-0.0540	1.00	-0.054	
3	48		R2401280-025	41.4	1.617	3.8003	1.00	3.800	
3	49		CCV/LCS	57.0	1.756	49.5670	1.00	49.567	99.1
3	50		CCB/MB	39.6	1.598	-2.5618	1.00	-2.562	
3	51		R2401303-001	39.8	1.600	-1.8408	5.00	-9.204	
3	52		R2401303-002	40.2	1.604	-0.4095	5.00	-2.048	
3	53		R2401372-001	41.2	1.615	3.1072	5.00	15.536	
3	54		R2401372-002	39.8	1.600	-1.8408	5.00	-9.204	
3	55		R2401372-005	40.2	1.604	-0.4095	5.00	-2.048	
3	56		R2401372-006	40.0	1.602	-1.1234	5.00	-5.617	
1	57		R2401372-007	39.9	1.601	-1.4816	5.00	-7.408	
1	58		R2401372-008	40.2	1.604	-0.4095	5.00	-2.048	
1	59		CCV/LCS	56.8	1.754	49.0639	1.00	49.064	98.1
1	60		CCB/MB	39.6	1.598	-2.5618	1.00	-2.562	

(Ck for SD 2/22/24)

ALS Environmental
1565 Jefferson Rd., Rochester, NY 14623

General Chemistry Analytical Run Cover Sheet

Analyst: SD Date: 2/21/24

Analysis: COD High-Level Instrument: (R-UV-VIS-06) Milton-Roy Spec 21D

PRIMARY STOCKS	Log # Prep/Exp. Dates	Reagent	Weight (g)	Final Vol. (mLs)	Conc. (mg/L
Standard *	**230359** **Prep: 7/18/2023** **Expires: 7/18/2024**	KHP 230354 Exp: 6/21/27	8.5034	1000	10,000 (A)
Reference *	**230358** **Prep: 7/18/2023** **Expires: 7/18/2024**	KHP 210662 Exp: 2/11/25	4.2517	1000	5,000 (B)

Working Stock Prep	Serial Dilutions**			
	Stock Soln (mLs)	Stock Soln (mg/L)	Final Volume (mLs)	True Value (mg/L)
Reference	1	5,000	10	500 (D)

Quality Control					
	ICV/CCV/LCS	2.00	500 (D)	2	500
	MS/DMS	0.375	10,000 (A)	10	375

Standard Curve Prep	Concentration (mg/L)	mLs DI Water	mLs 10,000 mg/L Stock (A)
	2000.00	8.00	2.00
	1500.00	8.50	1.50
	900.00	9.10	0.90
	500.00	9.50	0.5
	200.000	9.80	0.2
	100.000	9.90	0.1
	50.000	1/10 dil'n of 500 mg/L Std.	

Comments:

For Standard Curve: Add 2.0 mL of each standard to a High Level COD vial
For ICV/CCV/LCS: Add 2.0 mL of Reference (D) to a High Level COD vial
For MS: Add 2.0 mL of the 10 mL solution to a High Level COD vial

** Prepare fresh daily

(Ck for SD 2/22/24)

ALS Environmental
1565 Jefferson Rd., Rochester, NY 14623

General Chemistry Analytical Run Cover Sheet

Analyst: SD Date: 2/21/24

Analysis: COD Low-Level Instrument: (R-UV-VIS-06) Milton-Roy Spec 21D

PRIMARY STOCKS	Log # Prep/Exp. Dates	Reagent	Weight (g)	Final Vol. (mLs)	Conc. (mg/L
Standard *	**230359** **Prep: 7/18/2023** **Expires: 7/18/2024**	KHP 230354 Exp: 6/21/27	8.5034	1000	10,000 (A)
Reference *	**230358** **Prep: 7/18/2023** **Expires: 7/18/2024**	KHP 210662 Exp: 2/11/25	4.2517	1000	5,000 (B)

Working Stock Prep	Serial Dilutions**			
	Stock Soln (mLs)	Stock Soln (mg/L)	Final Volume (mLs)	True Value (mg/L)
Standard	1	10,000	10	1000 (C)
Reference	1	5,000	100	50 (D)

Quality Control				
ICV/CCV/LCS	2.00	50 (D)	2	50.00
MS/DMS	0.25	1000 (C)	10	0.25

Standard Curve Prep		
Concentration (mg/L)	mLs DI Water	mLs 1000 mg/L Working Stock (C)
100.00	9.00	1.00
70.00	9.30	0.70
40.00	9.60	0.40
20.00	9.8	0.2
10.000	9.9	0.1
5.000	9.95	0.05
2.000	9.98	0.02

Comments:

For Standard Curve: Add 2.0 mL of each standard to a Low Level COD vial
For ICV/CCV/LCS: Add 2.0 mL of Reference (D) to a Low Level COD vial
For MS: Add 2.0 mL of the 10 mL solution to a Low Level COD vial

** Prepare fresh daily

Analytical Results Summary

Instrument Name: R-UV-VIS-06 **Analyst:** SDUBE **Analysis Lot:** 833045 **Method/Testcode:** 410.4/COD T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ2401917-01	Chemical Oxygen Demand, Total	CCV		Water	517.32 mg/L	2 mL	517 mg/L	1					2/22/24 13:38	N	II
RQ2401917-02	Chemical Oxygen Demand, Total	CCB		Water	-2.67 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			2/22/24 13:38	N	II
RQ2401917-03	Chemical Oxygen Demand, Total	LCS		Water	517.32 mg/L	2 mL	517 mg/L	1	3.8	5.0	103		2/22/24 13:38	N	II
RQ2401917-04	Chemical Oxygen Demand, Total	MB		Water	-2.67 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			2/22/24 13:38	N	II
R2401406-001	Chemical Oxygen Demand, Total	N/A		Water	112.92 mg/L	2 mL	113 mg/L	1	3.8	5.0			2/22/24 13:38	N	II
R2401280-017	Chemical Oxygen Demand, Total	N/A		Water	614.46 mg/L	2 mL	614 mg/L	1	3.8	5.0			2/22/24 13:38	N	IV
R2401280-018	Chemical Oxygen Demand, Total	N/A		Water	259.09 mg/L	2 mL	259 mg/L	1	3.8	5.0			2/22/24 13:38	Y	IV
RQ2401917-05	Chemical Oxygen Demand, Total	MS	R2401280-018	Water	610.76 mg/L	2 mL	611 mg/L	1	3.8	5.0	94		2/22/24 13:38	N	IV
RQ2401917-06	Chemical Oxygen Demand, Total	DMS	R2401280-018	Water	608.91 mg/L	2 mL	609 mg/L	1	3.8	5.0	93	<1	2/22/24 13:38	N	IV
R2401374-002	Chemical Oxygen Demand, Total	N/A		Water	2372.22 mg/L	2 mL	2370 mg/L	10	38	50			2/22/24 13:38	N	II
R2401394-002	Chemical Oxygen Demand, Total	N/A		Water	138174.68 mg/L	2 mL	138000 mg/L	100	380	500			2/22/24 13:38	N	II
R2401395-002	Chemical Oxygen Demand, Total	N/A		Water	54288.94 mg/L	2 mL	54300 mg/L	100	380	500			2/22/24 13:38	N	II
RQ2401917-07	Chemical Oxygen Demand, Total	CCV		Water	517.32 mg/L	2 mL	517 mg/L	1					2/22/24 13:38	N	II
RQ2401917-08	Chemical Oxygen Demand, Total	CCB		Water	0.34 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			2/22/24 13:38	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Sample Dilutions

Final Volume: 8-10mL - COD

Analyst: SD
Instrument: R-WW-VIS-06

Date 2/22/24
Analysis COD

Common Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor
1/2		4	4	1/2												
1/3		3	6	1/3												
1/4		2	6	1/4												
1/5		2	8	1/5												
1/10		1	9	1/10												
1/20		1	1	1/2	1	9	1/20									
1/30		3	6	1/3	1	9	1/30									
1/40		1	3	1/4	1	9	1/40									
1/50		1	4	1/5	1	9	1/50									
1/100		1	9	1/10	1	9	1/100									
1/200		1	1	1/2	1	9	1/20	1	9	1/200						
1/300		3	6	1/3	1	9	1/30	1	9	1/300						
1/400		1	3	1/4	1	9	1/40	1	9	1/400						
1/500		1	4	1/5	1	9	1/50	1	9	1/500						
1/1000		1	9	1/10	1	9	1/100	1	9	1/1000						
1/2000		1	1	1/2	1	9	1/20	1	9	1/200	1	9	1/2000			
1/3000		3	6	1/3	1	9	1/30	1	9	1/300	1	9	1/3000			
1/4000		1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000			
1/10000		1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000			
1/20000		1	1	1/2	1	9	1/20	1	9	1/200	1	9	1/2000	1	9	1/20000
1/40000		1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000	1	9	1/40000
1/100000		1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000	1	9	1/100000

Special Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor
1/10	DI	1	9	1/10												

C:\Users\samantha.dube\Downloads\Sample Dilution Sheets R2 (5)Final Vol. 8-10mL (COD) 9/18/15

Analyte: Chemical Oxygen Demand Analyst: SD

Method: 410.4 Manual Colorimetric Date: 2/22/2024

Spectrophotometer: MR21D Time: 13:38

Pipette(s): MAGNUS/HULK

Calibration: DOD Pipette Verification: N/A

Std	Conc.	% T.	Log % T.	mg/l
1	2000	13.7	1.137	1988.146
2	1500	22.1	1.344	1509.232
3	900	40.3	1.605	907.538
4	500	60.0	1.778	508.936
5	200	82.0	1.914	196.083
6	100	90.7	1.958	95.090
7	50	95.1	1.978	47.646
8	0	100.0	2.000	-2.672
9				
10				

Block 3 = 150°C. Verified Annually

	Therm ID
COD Block 1	272
COD Block 2	273

Run Vial Lot #: 233178

Run Vial Check Date: 1/19/2024

Calibration Vial Lot #: 229115

C.C = -0.9999471 %RE low 4.7

y-int. = 1.9988414 %RE mid 0.6

Slope: -0.0004336

Wavelength: 620

Curve Date: 7/20/2023

Last LCR Verif: 1/17/2024 (due 6 months)

	1	2	3
Start Time:	11:38		
End Time:	13:38		
Block 1 (°C):			
Block 2 (°C):	150		

Block ID	Vial ID	Misc.	Order #	% T.	Log % T.	Result mg/L	Dilution	Final Result mg/L	Comments
		TV=500	ICV	60.3	1.780	503.9407	1.00	503.941	100.8
			ICB	100.0	2.000	-2.6718	1.00	-2.672	
2	1	TV=500	CCV/LCS	59.5	1.775	517.3170	1.00	517.317	103.5
2	2		CCB/MB	100.0	2.000	-2.6718	1.00	-2.672	
2	3		R2401406-001	89.1	1.950	112.9157	1.00	112.916	
2	4		R2401280-017	54.0	1.732	614.4577	1.00	614.458	
2	5		R2401280-018	77.0	1.886	259.0931	1.00	259.093	
2	6		R2401280-018 MS	54.2	1.734	610.7552	1.00	610.755	
2	7		R2401280-018 DMS	54.3	1.735	608.9091	1.00	608.909	
2	8		R2401374-002	78.7	1.896	237.2219	10.00	2372.219	
2	9		R2401394-002	25.1	1.400	1381.7468	100.00	138174.684	
2	10		R2401395-002	58.0	1.763	542.8894	100.00	54288.935	
2	11		CCV/LCS	59.5	1.775	517.3170	1.00	517.317	103.5
2	12		CCB/MB	99.7	1.999	0.3373	1.00	0.337	

ALS Environmental
1565 Jefferson Rd., Rochester, NY 14623

General Chemistry Analytical Run Cover Sheet

Analyst: SD Date: 2/22/24

Analysis: COD High-Level Instrument: (R-UV-VIS-06) Milton-Roy Spec 21D

PRIMARY STOCKS	Log # Prep/Exp. Dates	Reagent	Weight (g)	Final Vol. (mLs)	Conc. (mg/L
Standard *	**230359** **Prep: 7/18/2023** **Expires: 7/18/2024**	KHP 230354 Exp: 6/21/27	8.5034	1000	10,000 (A)
Reference *	**230358** **Prep: 7/18/2023** **Expires: 7/18/2024**	KHP 210662 Exp: 2/11/25	4.2517	1000	5,000 (B)

Working Stock Prep	Serial Dilutions**			
	Stock Soln (mLs)	Stock Soln (mg/L)	Final Volume (mLs)	True Value (mg/L)
Reference	1	5,000	10	500 (D)

Quality Control					
	ICV/CCV/LCS	2.00	500 (D)	2	500
	MS/DMS	0.375	10,000 (A)	10	375

Standard Curve Prep	Concentration (mg/L)	mLs DI Water	mLs 10,000 mg/L Stock (A)
	2000.00	8.00	2.00
	1500.00	8.50	1.50
	900.00	9.10	0.90
	500.00	9.50	0.5
	200.000	9.80	0.2
	100.000	9.90	0.1
	50.000	1/10 dil'n of 500 mg/L Std.	

Comments:

For Standard Curve: Add 2.0 mL of each standard to a High Level COD vial
For ICV/CCV/LCS: Add 2.0 mL of Reference (D) to a High Level COD vial
For MS: Add 2.0 mL of the 10 mL solution to a High Level COD vial

** Prepare fresh daily

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 833468 **Method/Testcode:** 300.0/Chloride

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2402111-01	Chloride	CCV		Water	4.18 mg/L	10 mL	4.18 mg/L	1					2/27/24 06:18	N	IV
KQ2402111-01	Sulfate	CCV		Water	4.17 mg/L	10 mL	4.17 mg/L	1					2/27/24 06:18	N	IV
KQ2402111-02	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			2/27/24 06:25	N	IV
KQ2402111-02	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/27/24 06:25	N	IV
KQ2402111-03	Chloride	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			2/27/24 06:25	N	IV
KQ2402111-03	Sulfate	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/27/24 06:25	N	IV
KQ2402111-04	Chloride	LCS		Water	1.98 mg/L	10 mL	1.98 mg/L	1	0.05	0.20	99		2/27/24 06:32	N	IV
KQ2402111-04	Sulfate	LCS		Water	2.06 mg/L	10 mL	2.06 mg/L	1	0.04	0.20	103		2/27/24 06:32	N	IV
K2401280-013	Sulfate	N/A		Water	28.48 mg/L	10 mL	28.5 mg/L	10	0.4	2.0			2/27/24 06:43	N	IV
K2401280-014	Sulfate	N/A		Water	63.20 mg/L	10 mL	63.2 mg/L	10	0.4	2.0			2/27/24 06:50	N	IV
K2401280-015	Sulfate	N/A		Water	28.24 mg/L	10 mL	28.2 mg/L	10	0.4	2.0			2/27/24 06:57	N	IV
K2401280-016	Sulfate	N/A		Water	65.74 mg/L	10 mL	65.7 mg/L	10	0.4	2.0			2/27/24 07:04	N	IV
K2401280-019	Sulfate	N/A		Water	46.15 mg/L	10 mL	46.1 mg/L	10	0.4	2.0			2/27/24 07:38	N	IV
KQ2402111-07	Chloride	CCV		Water	4.17 mg/L	10 mL	4.17 mg/L	1					2/27/24 07:45	N	IV
KQ2402111-07	Sulfate	CCV		Water	4.11 mg/L	10 mL	4.11 mg/L	1					2/27/24 07:45	N	IV
KQ2402111-08	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			2/27/24 07:52	N	IV
KQ2402111-08	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/27/24 07:52	N	IV
K2401280-020	Sulfate	N/A		Water	0.46 mg/L	10 mL	0.5 mg/L J	10	0.4	2.0			2/27/24 07:58	N	IV
K2401280-022	Sulfate	N/A		Water	9.62 mg/L	10 mL	9.6 mg/L	10	0.4	2.0			2/27/24 08:05	N	IV
K2401280-023	Sulfate	N/A		Water	35.88 mg/L	10 mL	35.9 mg/L	10	0.4	2.0			2/27/24 08:12	N	IV
K2401280-024	Sulfate	N/A		Water	0.00 mg/L	10 mL	2.0 mg/L U	10	0.4	2.0			2/27/24 08:19	N	IV
K2401280-025	Sulfate	N/A		Water	35.32 mg/L	10 mL	35.3 mg/L	10	0.4	2.0			2/27/24 08:26	N	IV
KQ2402111-09	Sulfate	MS	R2401280-025	Water	53.22 mg/L	10 mL	53.2 mg/L	10	0.4	2.0	89*		2/27/24 08:33	N	IV
KQ2402111-10	Sulfate	DMS	R2401280-025	Water	53.71 mg/L	10 mL	53.7 mg/L	10	0.4	2.0	92	<1	2/27/24 08:40	N	IV
K2401306-003	Chloride	N/A		Water	39.31 mg/L	10 mL	39.3 mg/L	10	0.5	2.0			2/27/24 08:47	N	IV
K2401141-003	Chloride	N/A		Water	113.64 mg/L	10 mL	114 mg/L	20	0.9	4.0			2/27/24 08:53	N	IV
K2401141-005	Chloride	N/A		Water	8.82 mg/L	10 mL	8.8 mg/L	10	0.5	2.0			2/27/24 09:00	N	IV
KQ2402111-11	Chloride	CCV		Water	4.16 mg/L	10 mL	4.16 mg/L	1					2/27/24 09:07	N	IV
KQ2402111-11	Sulfate	CCV		Water	4.10 mg/L	10 mL	4.10 mg/L	1					2/27/24 09:07	N	IV
KQ2402111-12	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			2/27/24 09:14	N	IV
KQ2402111-12	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/27/24 09:14	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 833472 **Method/Testcode:** 300.0/Chloride

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2402127-01	Chloride	CCV		Water	4.16 mg/L	10 mL	4.16 mg/L	1					2/27/24 09:07	N	IV
KQ2402127-01	Fluoride, undistilled	CCV		Water	2.07 mg/L	10 mL	2.07 mg/L	1					2/27/24 09:07	N	IV
KQ2402127-01	Sulfate	CCV		Water	4.10 mg/L	10 mL	4.10 mg/L	1					2/27/24 09:07	N	IV
KQ2402127-02	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			2/27/24 09:14	N	IV
KQ2402127-02	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			2/27/24 09:14	N	IV
KQ2402127-02	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/27/24 09:14	N	IV
KQ2402127-03	Chloride	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			2/27/24 09:14	N	IV
KQ2402127-03	Fluoride, undistilled	MB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			2/27/24 09:14	N	IV
KQ2402127-03	Sulfate	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/27/24 09:14	N	IV
KQ2402127-04	Chloride	LCS		Water	1.97 mg/L	10 mL	1.97 mg/L	1	0.05	0.20	99		2/27/24 09:21	N	IV
KQ2402127-04	Fluoride, undistilled	LCS		Water	1.01 mg/L	10 mL	1.01 mg/L	1	0.010	0.10	101		2/27/24 09:21	N	IV
KQ2402127-04	Sulfate	LCS		Water	2.03 mg/L	10 mL	2.03 mg/L	1	0.04	0.20	102		2/27/24 09:21	N	IV
R2401141-006	Chloride	N/A		Water	164.39 mg/L	10 mL	164 mg/L	30	1.3	6.0			2/27/24 09:28	N	IV
R2401387-001	Fluoride, undistilled	N/A		Water	7.50 mg/L	10 mL	7.5 mg/L	10	0.10	1.0			2/27/24 09:42	N	II
R2401352-001	Chloride	N/A		Water	32.79 mg/L	10 mL	32.8 mg/L	10	0.5	2.0			2/27/24 09:49	N	II
R2401504-001	Sulfate	N/A		Water	1355.82 mg/L	10 mL	1360 mg/L	200	8	40			2/27/24 09:55	N	IV
KQ2402127-05	Sulfate	MS	R2401504-001	Water	1723.29 mg/L	10 mL	1720 mg/L	200	8	40	92		2/27/24 10:02	N	IV
KQ2402127-06	Sulfate	DMS	R2401504-001	Water	1730.76 mg/L	10 mL	1730 mg/L	200	8	40	94	<1	2/27/24 10:09	N	IV
R2401504-002	Sulfate	N/A		Water	1495.11 mg/L	10 mL	1500 mg/L	300	12	60			2/27/24 10:16	N	IV
R2401504-003	Sulfate	N/A		Water	1312.06 mg/L	10 mL	1310 mg/L	200	8	40			2/27/24 10:23	N	IV
KQ2402127-07	Chloride	CCV		Water	4.16 mg/L	10 mL	4.16 mg/L	1					2/27/24 10:30	N	IV
KQ2402127-07	Fluoride, undistilled	CCV		Water	2.08 mg/L	10 mL	2.08 mg/L	1					2/27/24 10:30	N	IV
KQ2402127-07	Sulfate	CCV		Water	4.12 mg/L	10 mL	4.12 mg/L	1					2/27/24 10:30	N	IV
KQ2402127-08	Chloride	CCB		Water	0.10 mg/L	10 mL	0.1 mg/L J	1	0.05	0.20			2/27/24 10:37	N	IV
KQ2402127-08	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			2/27/24 10:37	N	IV
KQ2402127-08	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/27/24 10:37	N	IV
R2401504-004	Sulfate	N/A		Water	1296.95 mg/L	10 mL	1300 mg/L	200	8	40			2/27/24 12:29	N	IV
R2401504-006	Sulfate	N/A		Water	146.98 mg/L	10 mL	147 mg/L	30	1.2	6.0			2/27/24 12:36	N	IV
R2401504-007	Sulfate	N/A		Water	889.93 mg/L	10 mL	890 mg/L	200	8	40			2/27/24 12:43	N	IV
R2401504-008	Sulfate	N/A		Water	1269.93 mg/L	10 mL	1270 mg/L	200	8	40			2/27/24 12:50	N	IV
R2401504-009	Chloride	N/A		Water	126.49 mg/L	10 mL	126 mg/L	30	1.3	6.0			2/27/24 12:57	N	IV
R2401504-012	Chloride	N/A		Water	1086.63 mg/L	10 mL	1090 mg/L	200	9	40			2/27/24 13:04	N	IV
R2401504-013	Sulfate	N/A		Water	1143.75 mg/L	10 mL	1140 mg/L	200	8	40			2/27/24 13:11	N	IV
R2401504-014	Sulfate	N/A		Water	1397.68 mg/L	10 mL	1400 mg/L	300	12	60			2/27/24 13:17	N	IV
KQ2402127-11	Sulfate	MS	R2401504-014	Water	1964.72 mg/L	10 mL	1960 mg/L	300	12	60	95		2/27/24 13:24	N	IV
KQ2402127-12	Sulfate	DMS	R2401504-014	Water	1949.35 mg/L	10 mL	1950 mg/L	300	12	60	92	<1	2/27/24 13:31	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 833472 **Method/Testcode:** 300.0/Chloride

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2402127-09	Chloride	CCV		Water	4.14 mg/L	10 mL	4.14 mg/L	1					2/27/24 13:38	N	IV
KQ2402127-09	Fluoride, undistilled	CCV		Water	2.08 mg/L	10 mL	2.08 mg/L	1					2/27/24 13:38	N	IV
KQ2402127-09	Sulfate	CCV		Water	4.13 mg/L	10 mL	4.13 mg/L	1					2/27/24 13:38	N	IV
KQ2402127-10	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			2/27/24 13:45	N	IV
KQ2402127-10	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			2/27/24 13:45	N	IV
KQ2402127-10	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/27/24 13:45	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 833551 **Method/Testcode:** 9056A/Br

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2402128-01	Bromide	CCV		Water	1.95 mg/L	10 mL	1.95 mg/L	1					2/27/24 13:38	N	IV
KQ2402128-01	Chloride	CCV		Water	4.14 mg/L	10 mL	4.14 mg/L	1					2/27/24 13:38	N	IV
KQ2402128-01	Chloride	CCV		Water	4.14 mg/L	10 mL	4.14 mg/L	1					2/27/24 13:38	N	IV
KQ2402128-01	Fluoride, undistilled	CCV		Water	2.08 mg/L	10 mL	2.08 mg/L	1					2/27/24 13:38	N	IV
KQ2402128-01	Nitrate as Nitrogen	CCV		Water	2.05 mg/L	10 mL	2.05 mg/L	1					2/27/24 13:38	N	IV
KQ2402128-01	Sulfate	CCV		Water	4.13 mg/L	10 mL	4.13 mg/L	1					2/27/24 13:38	N	IV
KQ2402128-01	Sulfate	CCV		Water	4.13 mg/L	10 mL	4.13 mg/L	1					2/27/24 13:38	N	IV
KQ2402128-02	Bromide	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.04	0.10			2/27/24 13:45	N	IV
KQ2402128-02	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			2/27/24 13:45	N	IV
KQ2402128-02	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			2/27/24 13:45	N	IV
KQ2402128-02	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			2/27/24 13:45	N	IV
KQ2402128-02	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			2/27/24 13:45	N	IV
KQ2402128-02	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/27/24 13:45	N	IV
KQ2402128-02	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/27/24 13:45	N	IV
KQ2402128-03	Bromide	MB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.04	0.10			2/27/24 13:45	N	IV
KQ2402128-03	Chloride	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			2/27/24 13:45	N	IV
KQ2402128-03	Chloride	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			2/27/24 13:45	N	IV
KQ2402128-03	Fluoride, undistilled	MB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			2/27/24 13:45	N	IV
KQ2402128-03	Nitrate as Nitrogen	MB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			2/27/24 13:45	N	IV
KQ2402128-03	Sulfate	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/27/24 13:45	N	IV
KQ2402128-03	Sulfate	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/27/24 13:45	N	IV
KQ2402128-04	Bromide	LCS		Water	0.98 mg/L	10 mL	0.975 mg/L	1	0.04	0.10	98		2/27/24 13:52	N	IV
KQ2402128-04	Chloride	LCS		Water	1.97 mg/L	10 mL	1.97 mg/L	1	0.05	0.20	98		2/27/24 13:52	N	IV
KQ2402128-04	Chloride	LCS		Water	1.97 mg/L	10 mL	1.97 mg/L	1	0.05	0.20	98		2/27/24 13:52	N	IV
KQ2402128-04	Fluoride, undistilled	LCS		Water	1.02 mg/L	10 mL	1.02 mg/L	1	0.010	0.10	102		2/27/24 13:52	N	IV
KQ2402128-04	Nitrate as Nitrogen	LCS		Water	1.00 mg/L	10 mL	0.995 mg/L	1	0.02	0.10	100		2/27/24 13:52	N	IV
KQ2402128-04	Sulfate	LCS		Water	2.03 mg/L	10 mL	2.03 mg/L	1	0.04	0.20	102		2/27/24 13:52	N	IV
KQ2402128-04	Sulfate	LCS		Water	2.03 mg/L	10 mL	2.03 mg/L	1	0.04	0.20	102		2/27/24 13:52	N	IV
K2401280-002	Sulfate	N/A		Water	33.43 mg/L	10 mL	33.4 mg/L	20	0.8	4.0			2/27/24 13:59	N	IV
K2401505-001	Chloride	N/A		Water	143.60 mg/L	10 mL	144 mg/L	20	0.9	4.0			2/27/24 14:06	N	IV
K2401532-001	Bromide	N/A		Water	8.25 mg/L	10 mL	8.2 mg/L	10	0.4	1.0			2/27/24 14:13	N	IV
K2401532-001	Nitrate as Nitrogen	N/A		Water	2.12 mg/L	10 mL	2.1 mg/L	10	0.2	1.0			2/27/24 14:13	N	IV
K2401530-001	Bromide	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.4	1.0			2/27/24 14:26	N	II
K2401530-001	Chloride	N/A		Water	0.82 mg/L	10 mL	2.0 mg/L U	10	0.5	2.0			2/27/24 14:26	N	II
K2401530-001	Nitrate as Nitrogen	N/A		Water	0.35 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			2/27/24 14:26	N	II
K2401530-001	Sulfate	N/A		Water	72.89 mg/L	10 mL	72.9 mg/L	10	0.4	2.0			2/27/24 14:26	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 833551 **Method/Testcode:** 9056A/Br

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2402128-05	Bromide	MS	R2401530-001	Water	9.73 mg/L	10 mL	9.7 mg/L	10	0.4	1.0	97		2/27/24 14:33	N	II
KQ2402128-05	Chloride	MS	R2401530-001	Water	20.00 mg/L	10 mL	20.0 mg/L	10	0.5	2.0	100		2/27/24 14:33	N	II
KQ2402128-05	Nitrate as Nitrogen	MS	R2401530-001	Water	10.05 mg/L	10 mL	10.1 mg/L	10	0.2	1.0	101		2/27/24 14:33	N	II
KQ2402128-05	Sulfate	MS	R2401530-001	Water	88.90 mg/L	10 mL	88.9 mg/L	10	0.4	2.0	80		2/27/24 14:33	N	II
KQ2402128-06	Bromide	DMS	R2401530-001	Water	9.76 mg/L	10 mL	9.8 mg/L	10	0.4	1.0	98	<1	2/27/24 14:40	N	II
KQ2402128-06	Chloride	DMS	R2401530-001	Water	20.05 mg/L	10 mL	20.1 mg/L	10	0.5	2.0	100	<1	2/27/24 14:40	N	II
KQ2402128-06	Nitrate as Nitrogen	DMS	R2401530-001	Water	10.08 mg/L	10 mL	10.1 mg/L	10	0.2	1.0	101	<1	2/27/24 14:40	N	II
KQ2402128-06	Sulfate	DMS	R2401530-001	Water	88.42 mg/L	10 mL	88.4 mg/L	10	0.4	2.0	78*	<1	2/27/24 14:40	N	II
K2401530-002	Bromide	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.4	1.0			2/27/24 14:47	N	II
K2401530-002	Chloride	N/A		Water	7.42 mg/L	10 mL	7.4 mg/L	10	0.5	2.0			2/27/24 14:47	N	II
K2401530-002	Nitrate as Nitrogen	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			2/27/24 14:47	N	II
K2401530-003	Bromide	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.4	1.0			2/27/24 14:54	N	II
K2401530-003	Chloride	N/A		Water	16.72 mg/L	10 mL	16.7 mg/L	10	0.5	2.0			2/27/24 14:54	N	II
K2401530-003	Nitrate as Nitrogen	N/A		Water	0.49 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			2/27/24 14:54	N	II
KQ2402128-07	Bromide	CCV		Water	1.96 mg/L	10 mL	1.96 mg/L	1					2/27/24 15:01	N	II
KQ2402128-07	Chloride	CCV		Water	4.15 mg/L	10 mL	4.15 mg/L	1					2/27/24 15:01	N	II
KQ2402128-07	Chloride	CCV		Water	4.15 mg/L	10 mL	4.15 mg/L	1					2/27/24 15:01	N	II
KQ2402128-07	Fluoride, undistilled	CCV		Water	2.07 mg/L	10 mL	2.07 mg/L	1					2/27/24 15:01	N	II
KQ2402128-07	Nitrate as Nitrogen	CCV		Water	2.05 mg/L	10 mL	2.05 mg/L	1					2/27/24 15:01	N	II
KQ2402128-07	Sulfate	CCV		Water	4.10 mg/L	10 mL	4.10 mg/L	1					2/27/24 15:01	N	II
KQ2402128-07	Sulfate	CCV		Water	4.10 mg/L	10 mL	4.10 mg/L	1					2/27/24 15:01	N	II
KQ2402128-08	Bromide	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.04	0.10			2/27/24 15:08	N	II
KQ2402128-08	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			2/27/24 15:08	N	II
KQ2402128-08	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			2/27/24 15:08	N	II
KQ2402128-08	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			2/27/24 15:08	N	II
KQ2402128-08	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			2/27/24 15:08	N	II
KQ2402128-08	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/27/24 15:08	N	II
KQ2402128-08	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/27/24 15:08	N	II
K2401530-004	Bromide	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.4	1.0			2/27/24 15:14	N	II
K2401530-004	Chloride	N/A		Water	6.02 mg/L	10 mL	6.0 mg/L	10	0.5	2.0			2/27/24 15:14	N	II
K2401530-004	Nitrate as Nitrogen	N/A		Water	1.91 mg/L	10 mL	1.9 mg/L	10	0.2	1.0			2/27/24 15:14	N	II
K2401530-004	Sulfate	N/A		Water	70.10 mg/L	10 mL	70.1 mg/L	10	0.4	2.0			2/27/24 15:14	N	II
K2401530-005	Bromide	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.4	1.0			2/27/24 15:21	N	II
K2401530-005	Chloride	N/A		Water	4.09 mg/L	10 mL	4.1 mg/L	10	0.5	2.0			2/27/24 15:21	N	II
K2401530-005	Nitrate as Nitrogen	N/A		Water	1.49 mg/L	10 mL	1.5 mg/L	10	0.2	1.0			2/27/24 15:21	N	II
K2401530-006	Bromide	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.4	1.0			2/27/24 15:28	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 833551 **Method/Testcode:** 9056A/Chloride

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R2401530-006	Chloride	N/A		Water	0.84 mg/L	10 mL	2.0 mg/L U	10	0.5	2.0			2/27/24 15:28	N	II
R2401530-006	Nitrate as Nitrogen	N/A		Water	0.33 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			2/27/24 15:28	N	II
R2401530-006	Sulfate	N/A		Water	72.03 mg/L	10 mL	72.0 mg/L	10	0.4	2.0			2/27/24 15:28	N	II
R2401141-008	Chloride	N/A		Water	9.34 mg/L	10 mL	9.3 mg/L	10	0.5	2.0			2/27/24 15:35	N	IV
RQ2402128-09	Chloride	MS	R2401141-008	Water	28.74 mg/L	10 mL	28.7 mg/L	10	0.5	2.0	97		2/27/24 15:42	N	IV
RQ2402128-10	Chloride	DMS	R2401141-008	Water	28.72 mg/L	10 mL	28.7 mg/L	10	0.5	2.0	97	<1	2/27/24 15:49	N	IV
R2401431-001	Fluoride, undistilled	N/A		Drinking Water	0.04 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			2/27/24 15:56	N	II
R2401398-003	Fluoride, undistilled	N/A		Water	1.59 mg/L	10 mL	1.59 mg/L	1	0.010	0.10			2/27/24 16:03	N	IV
R2401398-003	Chloride	N/A		Water	36.03 mg/L	10 mL	36.0 mg/L	10	0.5	2.0			2/27/24 16:10	N	IV
RQ2402128-11	Bromide	CCV		Water	1.95 mg/L	10 mL	1.95 mg/L	1					2/27/24 16:23	N	IV
RQ2402128-11	Chloride	CCV		Water	4.16 mg/L	10 mL	4.16 mg/L	1					2/27/24 16:23	N	IV
RQ2402128-11	Chloride	CCV		Water	4.16 mg/L	10 mL	4.16 mg/L	1					2/27/24 16:23	N	IV
RQ2402128-11	Fluoride, undistilled	CCV		Water	2.07 mg/L	10 mL	2.07 mg/L	1					2/27/24 16:23	N	IV
RQ2402128-11	Nitrate as Nitrogen	CCV		Water	2.05 mg/L	10 mL	2.05 mg/L	1					2/27/24 16:23	N	IV
RQ2402128-11	Sulfate	CCV		Water	4.10 mg/L	10 mL	4.10 mg/L	1					2/27/24 16:23	N	IV
RQ2402128-11	Sulfate	CCV		Water	4.10 mg/L	10 mL	4.10 mg/L	1					2/27/24 16:23	N	IV
RQ2402128-12	Bromide	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.04	0.10			2/27/24 16:30	N	IV
RQ2402128-12	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			2/27/24 16:30	N	IV
RQ2402128-12	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			2/27/24 16:30	N	IV
RQ2402128-12	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			2/27/24 16:30	N	IV
RQ2402128-12	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			2/27/24 16:30	N	IV
RQ2402128-12	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/27/24 16:30	N	IV
RQ2402128-12	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/27/24 16:30	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 833553 **Method/Testcode:** 9056A/Chloride

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2402129-01	Chloride	CCV		Water	4.16 mg/L	10 mL	4.16 mg/L	1					2/27/24 16:23	N	IV
KQ2402129-01	Sulfate	CCV		Water	4.10 mg/L	10 mL	4.10 mg/L	1					2/27/24 16:23	N	IV
KQ2402129-02	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			2/27/24 16:30	N	IV
KQ2402129-02	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/27/24 16:30	N	IV
KQ2402129-03	Chloride	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			2/27/24 16:30	N	IV
KQ2402129-03	Sulfate	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/27/24 16:30	N	IV
KQ2402129-04	Chloride	LCS		Water	1.98 mg/L	10 mL	1.98 mg/L	1	0.05	0.20	99		2/27/24 16:37	N	IV
KQ2402129-04	Sulfate	LCS		Water	2.01 mg/L	10 mL	2.01 mg/L	1	0.04	0.20	100		2/27/24 16:37	N	IV
K2401135-003	Chloride	N/A		Water	37615.69 mg/L	10 mL	37600 mg/L	10000	500	2000			2/27/24 16:44	N	IV
K2401135-004	Chloride	N/A		Water	2775.68 mg/L	10 mL	2780 mg/L	400	17	80			2/27/24 16:51	N	IV
K2401188-001	Chloride	N/A		Water	1588.66 mg/L	10 mL	1590 mg/L	200	9	40			2/27/24 16:58	Y	IV
KQ2402129-05	Chloride	MS	R2401188-001	Water	1919.85 mg/L	10 mL	1920 mg/L	200	9	40	83		2/27/24 17:05	N	IV
KQ2402129-06	Chloride	DMS	R2401188-001	Water	1919.86 mg/L	10 mL	1920 mg/L	200	9	40	83	<1	2/27/24 17:12	N	IV
K2401188-002	Chloride	N/A		Water	1567.17 mg/L	10 mL	1570 mg/L	200	9	40			2/27/24 17:19	N	IV
K2401153-001	Chloride	N/A		Water	630.08 mg/L	10 mL	630 mg/L	100	5	20			2/27/24 17:25	N	IV
K2401153-003	Chloride	N/A		Water	67292.33 mg/L	10 mL	67300 mg/L	10000	500	2000			2/27/24 17:32	N	IV
K2401372-001	Chloride	N/A		Water	6603.09 mg/L	10 mL	6600 mg/L	1000	50	200			2/27/24 17:39	N	IV
KQ2402129-07	Chloride	CCV		Water	4.15 mg/L	10 mL	4.15 mg/L	1					2/27/24 17:46	N	IV
KQ2402129-07	Sulfate	CCV		Water	4.15 mg/L	10 mL	4.15 mg/L	1					2/27/24 17:46	N	IV
KQ2402129-08	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			2/27/24 17:53	N	IV
KQ2402129-08	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/27/24 17:53	N	IV
K2401415-001	Chloride	N/A		Water	199.39 mg/L	10 mL	199 mg/L	30	1.3	6.0			2/27/24 18:00	N	IV
K2401415-002	Chloride	N/A		Water	202.89 mg/L	10 mL	203 mg/L	30	1.3	6.0			2/27/24 18:07	N	IV
K2401469-001	Chloride	N/A		Water	1062.67 mg/L	10 mL	1060 mg/L	200	9	40			2/27/24 18:14	Y	IV
K2401469-001	Sulfate	N/A		Water	551.22 mg/L	10 mL	551 mg/L	200	8	40			2/27/24 18:14	Y	IV
KQ2402129-09	Chloride	MS	R2401469-001	Water	1419.89 mg/L	10 mL	1420 mg/L	200	9	40	89		2/27/24 18:20	N	IV
KQ2402129-09	Sulfate	MS	R2401469-001	Water	937.74 mg/L	10 mL	938 mg/L	200	8	40	97		2/27/24 18:20	N	IV
KQ2402129-10	Chloride	DMS	R2401469-001	Water	1425.59 mg/L	10 mL	1430 mg/L	200	9	40	91	<1	2/27/24 18:27	N	IV
KQ2402129-10	Sulfate	DMS	R2401469-001	Water	944.50 mg/L	10 mL	945 mg/L	200	8	40	98	<1	2/27/24 18:27	N	IV
K2401485-001	Sulfate	N/A		Water	22.51 mg/L	10 mL	22.5 mg/L	10	0.4	2.0			2/27/24 18:34	N	II
K2401485-002	Sulfate	N/A		Water	30.79 mg/L	10 mL	30.8 mg/L	10	0.4	2.0			2/27/24 18:41	N	II
K2401485-003	Chloride	N/A		Water	2.99 mg/L	10 mL	3.0 mg/L	10	0.5	2.0			2/27/24 18:48	N	II
K2401485-004	Chloride	N/A		Water	15.93 mg/L	10 mL	15.9 mg/L	10	0.5	2.0			2/27/24 18:55	N	II
K2401485-004	Sulfate	N/A		Water	45.35 mg/L	10 mL	45.4 mg/L	10	0.4	2.0			2/27/24 18:55	N	II
K2401485-005	Chloride	N/A		Water	5.72 mg/L	10 mL	5.7 mg/L	10	0.5	2.0			2/27/24 19:02	N	II
KQ2402129-11	Chloride	CCV		Water	4.17 mg/L	10 mL	4.17 mg/L	1					2/27/24 19:09	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 833553 **Method/Testcode:** 9056A/SO4

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ2402129-11	Sulfate	CCV		Water	4.14 mg/L	10 mL	4.14 mg/L	1					2/27/24 19:09	N	II
RQ2402129-12	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			2/27/24 19:16	N	II
RQ2402129-12	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/27/24 19:16	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 833556 **Method/Testcode:** 9056A/Chloride

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2402131-01	Chloride	CCV		Water	4.17 mg/L	10 mL	4.17 mg/L	1					2/27/24 19:09	N	II
KQ2402131-01	Sulfate	CCV		Water	4.14 mg/L	10 mL	4.14 mg/L	1					2/27/24 19:09	N	II
KQ2402131-02	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			2/27/24 19:16	N	II
KQ2402131-02	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/27/24 19:16	N	II
KQ2402131-03	Chloride	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			2/27/24 19:16	N	II
KQ2402131-03	Sulfate	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/27/24 19:16	N	II
KQ2402131-04	Chloride	LCS		Water	1.97 mg/L	10 mL	1.97 mg/L	1	0.05	0.20	99		2/27/24 19:22	N	II
KQ2402131-04	Sulfate	LCS		Water	2.04 mg/L	10 mL	2.04 mg/L	1	0.04	0.20	102		2/27/24 19:22	N	II
K2401485-006	Chloride	N/A		Water	7.35 mg/L	10 mL	7.3 mg/L	10	0.5	2.0			2/27/24 19:29	N	II
K2401485-007	Chloride	N/A		Water	11.66 mg/L	10 mL	11.7 mg/L	10	0.5	2.0			2/27/24 19:36	N	II
KQ2402131-05	Chloride	MS	R2401485-007	Water	30.75 mg/L	10 mL	30.7 mg/L	10	0.5	2.0	95		2/27/24 19:43	N	II
KQ2402131-06	Chloride	DMS	R2401485-007	Water	30.77 mg/L	10 mL	30.8 mg/L	10	0.5	2.0	96	<1	2/27/24 19:50	N	II
K2401485-009	Sulfate	N/A		Water	58.50 mg/L	10 mL	58.5 mg/L	10	0.4	2.0			2/27/24 20:04	N	II
K2401485-010	Chloride	N/A		Water	5.54 mg/L	10 mL	5.5 mg/L	10	0.5	2.0			2/27/24 20:11	N	II
K2401485-011	Chloride	N/A		Water	21.21 mg/L	10 mL	21.2 mg/L	10	0.5	2.0			2/27/24 20:18	N	II
K2401485-012	Chloride	N/A		Water	3.31 mg/L	10 mL	3.3 mg/L	10	0.5	2.0			2/27/24 20:24	N	II
KQ2402131-07	Chloride	CCV		Water	4.18 mg/L	10 mL	4.18 mg/L	1					2/27/24 20:31	N	II
KQ2402131-07	Sulfate	CCV		Water	4.16 mg/L	10 mL	4.16 mg/L	1					2/27/24 20:31	N	II
KQ2402131-08	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			2/27/24 20:38	N	II
KQ2402131-08	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/27/24 20:38	N	II
K2401485-013	Chloride	N/A		Water	47.70 mg/L	10 mL	47.7 mg/L	10	0.5	2.0			2/27/24 20:45	N	II
K2401485-014	Chloride	N/A		Water	6.10 mg/L	10 mL	6.1 mg/L	10	0.5	2.0			2/27/24 20:52	N	II
K2401485-015	Chloride	N/A		Water	14.11 mg/L	10 mL	14.1 mg/L	10	0.5	2.0			2/27/24 20:59	N	II
K2401485-017	Chloride	N/A		Water	20.72 mg/L	10 mL	20.7 mg/L	10	0.5	2.0			2/27/24 21:06	N	II
K2401485-017	Sulfate	N/A		Water	45.80 mg/L	10 mL	45.8 mg/L	10	0.4	2.0			2/27/24 21:06	N	II
KQ2402131-09	Chloride	MS	R2401485-017	Water	39.72 mg/L	10 mL	39.7 mg/L	10	0.5	2.0	95		2/27/24 21:13	N	II
KQ2402131-09	Sulfate	MS	R2401485-017	Water	63.76 mg/L	10 mL	63.8 mg/L	10	0.4	2.0	90		2/27/24 21:13	N	II
KQ2402131-10	Chloride	DMS	R2401485-017	Water	39.67 mg/L	10 mL	39.7 mg/L	10	0.5	2.0	95	<1	2/27/24 21:19	N	II
KQ2402131-10	Sulfate	DMS	R2401485-017	Water	63.51 mg/L	10 mL	63.5 mg/L	10	0.4	2.0	89	<1	2/27/24 21:19	N	II
K2401485-018	Chloride	N/A		Water	16.76 mg/L	10 mL	16.8 mg/L	10	0.5	2.0			2/27/24 21:26	N	II
K2401485-018	Sulfate	N/A		Water	44.43 mg/L	10 mL	44.4 mg/L	10	0.4	2.0			2/27/24 21:26	N	II
K2401485-019	Chloride	N/A		Water	21.22 mg/L	10 mL	21.2 mg/L	10	0.5	2.0			2/27/24 21:33	N	II
K2401485-020	Chloride	N/A		Water	14.48 mg/L	10 mL	14.5 mg/L	10	0.5	2.0			2/27/24 21:40	N	II
KQ2402131-11	Chloride	CCV		Water	4.17 mg/L	10 mL	4.17 mg/L	1					2/27/24 21:47	N	II
KQ2402131-11	Sulfate	CCV		Water	4.12 mg/L	10 mL	4.12 mg/L	1					2/27/24 21:47	N	II
KQ2402131-12	Chloride	CCB		Water	0.06 mg/L	10 mL	0.06 mg/L J	1	0.05	0.20			2/27/24 21:54	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 833556 **Method/Testcode:** 9056A/SO4

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ2402131-12	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/27/24 21:54	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 833557 **Method/Testcode:** 300.0/Br

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ2402137-01	Bromide	CCV		Water	1.97 mg/L	10 mL	1.97 mg/L	1					2/27/24 21:47	N	IV
RQ2402137-01	Chloride	CCV		Water	4.17 mg/L	10 mL	4.17 mg/L	1					2/27/24 21:47	N	IV
RQ2402137-01	Nitrate as Nitrogen	CCV		Water	2.06 mg/L	10 mL	2.06 mg/L	1					2/27/24 21:47	N	IV
RQ2402137-02	Bromide	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.04	0.10			2/27/24 21:54	N	IV
RQ2402137-02	Chloride	CCB		Water	0.06 mg/L	10 mL	0.06 mg/L J	1	0.05	0.20			2/27/24 21:54	N	IV
RQ2402137-02	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			2/27/24 21:54	N	IV
RQ2402137-03	Bromide	MB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.04	0.10			2/27/24 21:54	N	IV
RQ2402137-03	Chloride	MB		Water	0.06 mg/L	10 mL	0.06 mg/L J	1	0.05	0.20			2/27/24 21:54	N	IV
RQ2402137-03	Nitrate as Nitrogen	MB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			2/27/24 21:54	N	IV
RQ2402137-04	Bromide	LCS		Water	0.98 mg/L	10 mL	0.982 mg/L	1	0.04	0.10	98		2/27/24 22:01	N	IV
RQ2402137-04	Chloride	LCS		Water	1.97 mg/L	10 mL	1.97 mg/L	1	0.05	0.20	99		2/27/24 22:01	N	IV
RQ2402137-04	Nitrate as Nitrogen	LCS		Water	1.00 mg/L	10 mL	1.00 mg/L	1	0.02	0.10	100		2/27/24 22:01	N	IV
R2401541-001	Bromide	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.4	1.0			2/27/24 22:08	N	IV
R2401541-001	Chloride	N/A		Water	29.89 mg/L	10 mL	29.9 mg/L	10	0.5	2.0			2/27/24 22:08	N	IV
R2401541-001	Nitrate as Nitrogen	N/A		Water	0.35 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			2/27/24 22:08	N	IV
RQ2402137-05	Bromide	MS	R2401541-001	Water	9.92 mg/L	10 mL	9.9 mg/L	10	0.4	1.0	99		2/27/24 22:15	N	IV
RQ2402137-05	Chloride	MS	R2401541-001	Water	48.91 mg/L	10 mL	48.9 mg/L	10	0.5	2.0	95		2/27/24 22:15	N	IV
RQ2402137-05	Nitrate as Nitrogen	MS	R2401541-001	Water	10.09 mg/L	10 mL	10.1 mg/L	10	0.2	1.0	101		2/27/24 22:15	N	IV
RQ2402137-06	Bromide	DMS	R2401541-001	Water	9.95 mg/L	10 mL	9.9 mg/L	10	0.4	1.0	99	<1	2/27/24 22:21	N	IV
RQ2402137-06	Chloride	DMS	R2401541-001	Water	48.90 mg/L	10 mL	48.9 mg/L	10	0.5	2.0	95	<1	2/27/24 22:21	N	IV
RQ2402137-06	Nitrate as Nitrogen	DMS	R2401541-001	Water	10.10 mg/L	10 mL	10.1 mg/L	10	0.2	1.0	101	<1	2/27/24 22:21	N	IV
R2401541-003	Bromide	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.4	1.0			2/27/24 22:28	N	IV
R2401541-003	Chloride	N/A		Water	1.17 mg/L	10 mL	2.0 mg/L U	10	0.5	2.0			2/27/24 22:28	N	IV
R2401541-003	Nitrate as Nitrogen	N/A		Water	0.42 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			2/27/24 22:28	N	IV
R2401541-005	Bromide	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.4	1.0			2/27/24 22:35	N	IV
R2401541-005	Chloride	N/A		Water	1.56 mg/L	10 mL	2.0 mg/L U	10	0.5	2.0			2/27/24 22:35	N	IV
R2401541-005	Nitrate as Nitrogen	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			2/27/24 22:35	N	IV
R2401541-007	Bromide	N/A		Water	3.29 mg/L	10 mL	3.3 mg/L	10	0.4	1.0			2/27/24 22:42	N	IV
R2401541-007	Nitrate as Nitrogen	N/A		Water	0.25 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			2/27/24 22:42	N	IV
R2401541-009	Bromide	N/A		Water	4.42 mg/L	10 mL	4.4 mg/L	10	0.4	1.0			2/27/24 22:49	N	IV
R2401541-009	Nitrate as Nitrogen	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			2/27/24 22:49	N	IV
R2401541-011	Bromide	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.4	1.0			2/27/24 22:56	N	IV
R2401541-011	Chloride	N/A		Water	85.33 mg/L	10 mL	85.3 mg/L	10	0.5	2.0			2/27/24 22:56	N	IV
R2401541-011	Nitrate as Nitrogen	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			2/27/24 22:56	N	IV
R2401541-013	Bromide	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.4	1.0			2/27/24 23:03	N	IV
R2401541-013	Chloride	N/A		Water	2.89 mg/L	10 mL	2.9 mg/L	10	0.5	2.0			2/27/24 23:03	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 833557 **Method/Testcode:** 300.0/NO3

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R2401541-013	Nitrate as Nitrogen	N/A		Water	0.23 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			2/27/24 23:03	N	IV
RQ2402137-07	Bromide	CCV		Water	1.97 mg/L	10 mL	1.97 mg/L	1					2/27/24 23:10	N	IV
RQ2402137-07	Chloride	CCV		Water	4.18 mg/L	10 mL	4.18 mg/L	1					2/27/24 23:10	N	IV
RQ2402137-07	Nitrate as Nitrogen	CCV		Water	2.06 mg/L	10 mL	2.06 mg/L	1					2/27/24 23:10	N	IV
RQ2402137-08	Bromide	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.04	0.10			2/27/24 23:17	N	IV
RQ2402137-08	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			2/27/24 23:17	N	IV
RQ2402137-08	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			2/27/24 23:17	N	IV
R2401541-015	Bromide	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.4	1.0			2/27/24 23:24	N	IV
R2401541-015	Chloride	N/A		Water	2.38 mg/L	10 mL	2.4 mg/L	10	0.5	2.0			2/27/24 23:24	N	IV
R2401541-015	Nitrate as Nitrogen	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			2/27/24 23:24	N	IV
RQ2402137-09	Bromide	MS	R2401541-015	Water	9.77 mg/L	10 mL	9.8 mg/L	10	0.4	1.0	98		2/27/24 23:31	N	IV
RQ2402137-09	Chloride	MS	R2401541-015	Water	21.63 mg/L	10 mL	21.6 mg/L	10	0.5	2.0	96		2/27/24 23:31	N	IV
RQ2402137-09	Nitrate as Nitrogen	MS	R2401541-015	Water	9.95 mg/L	10 mL	9.9 mg/L	10	0.2	1.0	99		2/27/24 23:31	N	IV
RQ2402137-10	Bromide	DMS	R2401541-015	Water	9.78 mg/L	10 mL	9.8 mg/L	10	0.4	1.0	98	<1	2/27/24 23:38	N	IV
RQ2402137-10	Chloride	DMS	R2401541-015	Water	21.68 mg/L	10 mL	21.7 mg/L	10	0.5	2.0	96	<1	2/27/24 23:38	N	IV
RQ2402137-10	Nitrate as Nitrogen	DMS	R2401541-015	Water	9.98 mg/L	10 mL	10.0 mg/L	10	0.2	1.0	100	<1	2/27/24 23:38	N	IV
R2401541-017	Bromide	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.4	1.0			2/27/24 23:45	N	IV
R2401541-017	Chloride	N/A		Water	3.10 mg/L	10 mL	3.1 mg/L	10	0.5	2.0			2/27/24 23:45	N	IV
R2401541-017	Nitrate as Nitrogen	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			2/27/24 23:45	N	IV
R2401541-019	Bromide	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.4	1.0			2/27/24 23:52	N	IV
R2401541-019	Chloride	N/A		Water	3.68 mg/L	10 mL	3.7 mg/L	10	0.5	2.0			2/27/24 23:52	N	IV
R2401541-019	Nitrate as Nitrogen	N/A		Water	0.33 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			2/27/24 23:52	N	IV
R2401541-021	Bromide	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.4	1.0			2/27/24 23:59	N	IV
R2401541-021	Chloride	N/A		Water	84.95 mg/L	10 mL	84.9 mg/L	10	0.5	2.0			2/27/24 23:59	N	IV
R2401541-021	Nitrate as Nitrogen	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			2/27/24 23:59	N	IV
RQ2402137-11	Bromide	CCV		Water	1.97 mg/L	10 mL	1.97 mg/L	1					2/28/24 00:06	N	IV
RQ2402137-11	Chloride	CCV		Water	4.17 mg/L	10 mL	4.17 mg/L	1					2/28/24 00:06	N	IV
RQ2402137-11	Nitrate as Nitrogen	CCV		Water	2.05 mg/L	10 mL	2.05 mg/L	1					2/28/24 00:06	N	IV
RQ2402137-12	Bromide	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.04	0.10			2/28/24 00:13	N	IV
RQ2402137-12	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			2/28/24 00:13	N	IV
RQ2402137-12	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			2/28/24 00:13	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Determination overview JC10 pipette: Bottom/athena 300.0/9056A 2/27/24 KW

	Method name	Determination start	Position	Ident	Dilution	Info 1	Info 2
1	10-122723FAST	2024-02-27 06:18:28 UTC-5	1	CCV	1	300.0/9056A	
2	10-122723FAST	2024-02-27 06:25:24 UTC-5	2	CCB	1	300.0/9056A	
3	10-122723FAST	2024-02-27 06:32:15 UTC-5	3	LCS	1	300.0/9056A	
4	10-122723FAST	2024-02-27 06:43:26 UTC-5	4	R2401280-013	10	300.0 S	
5	10-122723FAST	2024-02-27 06:50:17 UTC-5	5	R2401280-014	10	300.0 S	
6	10-122723FAST	2024-02-27 06:57:09 UTC-5	6	R2401280-015	10	300.0 S	
7	10-122723FAST	2024-02-27 07:04:01 UTC-5	7	R2401280-016	10	300.0 S	
8	10-122723FAST	2024-02-27 07:10:53 UTC-5	8	R2401280-017 DNR	10	300.0 S	
9	10-122723FAST	2024-02-27 07:17:45 UTC-5	9	R2401280-018 DNR	10	300.0 S	
10	10-122723FAST	2024-02-27 07:24:36 UTC-5	10	R2401280-018 MS! DNR	10	300.0 S	
11	10-122723FAST	2024-02-27 07:31:29 UTC-5	11	R2401280-018 MSD! DNR	10	300.0 S	
12	10-122723FAST	2024-02-27 07:38:22 UTC-5	12	R2401280-019	10	300.0 S	
13	10-122723FAST	2024-02-27 07:45:14 UTC-5	13	CCV	1	300.0/9056A	
14	10-122723FAST	2024-02-27 07:52:08 UTC-5	14	CCB	1	300.0/9056A	
15	10-122723FAST	2024-02-27 07:58:58 UTC-5	15	R2401280-020	10	300.0 S	
16	10-122723FAST	2024-02-27 08:05:52 UTC-5	16	R2401280-022	10	300.0 S	
17	10-122723FAST	2024-02-27 08:12:43 UTC-5	17	R2401280-023	10	300.0 S	
18	10-122723FAST	2024-02-27 08:19:34 UTC-5	18	R2401280-024	10	300.0 S	
19	10-122723FAST	2024-02-27 08:26:25 UTC-5	19	R2401280-025	10	300.0 S	
20	10-122723FAST	2024-02-27 08:33:17 UTC-5	20	R2401280-025 MS	10	300.0 S	
21	10-122723FAST	2024-02-27 08:40:12 UTC-5	21	R2401280-025 MSD	10	300.0 S	
22	10-122723FAST	2024-02-27 08:47:05 UTC-5	22	R2401306-003	10	300.0 C	
23	10-122723FAST	2024-02-27 08:53:58 UTC-5	23	R2401141-003	20	300.0 C	
24	10-122723FAST	2024-02-27 09:00:50 UTC-5	24	R2401141-005	10	300.0 C	
25	10-122723FAST	2024-02-27 09:07:43 UTC-5	25	CCV	1	300.0/9056A	
26	10-122723FAST	2024-02-27 09:14:36 UTC-5	26	CCB	1	300.0/9056A	
27	10-122723FAST	2024-02-27 09:21:26 UTC-5	27	LCS	1	300.0/9056A	
28	10-122723FAST	2024-02-27 09:28:20 UTC-5	28	R2401141-006	30	300.0 C	
29	10-122723FAST	2024-02-27 09:35:14 UTC-5	29	R2401387-001 DNR	1	300.0 F	
30	10-122723FAST	2024-02-27 09:42:07 UTC-5	30	R2401387-001	10	300.0 F	
31	10-122723FAST	2024-02-27 09:49:05 UTC-5	31	R2401352-001	10	300.0 C	
32	10-122723FAST	2024-02-27 09:55:57 UTC-5	32	R2401504-001	200	300.0 S	
33	10-122723FAST	2024-02-27 10:02:49 UTC-5	33	R2401504-001 MS	200	300.0 S	
34	10-122723FAST	2024-02-27 10:09:42 UTC-5	34	R2401504-001 MSD	200	300.0 S	
35	10-122723FAST	2024-02-27 10:16:35 UTC-5	35	R2401504-002	300	300.0 S	
36	10-122723FAST	2024-02-27 10:23:26 UTC-5	36	R2401504-003	200	300.0 S	
37	10-122723FAST	2024-02-27 10:30:17 UTC-5	37	CCV	1	300.0/9056A	
38	10-122723FAST	2024-02-27 10:37:10 UTC-5	38	CCB	1	300.0/9056A	
39	10-122723FAST	2024-02-27 12:29:45 UTC-5	39	R2401504-004	200	300.0 S	
40	10-122723FAST	2024-02-27 12:36:41 UTC-5	40	R2401504-006	30	300.0 S	
41	10-122723FAST	2024-02-27 12:43:33 UTC-5	41	R2401504-007	200	300.0 S	
42	10-122723FAST	2024-02-27 12:50:25 UTC-5	42	R2401504-008	200	300.0 S	
43	10-122723FAST	2024-02-27 12:57:17 UTC-5	43	R2401504-009	30	300.0 C	
44	10-122723FAST	2024-02-27 13:04:08 UTC-5	44	R2401504-012	200	300.0 C	
45	10-122723FAST	2024-02-27 13:11:00 UTC-5	45	R2401504-013	200	300.0 S	
46	10-122723FAST	2024-02-27 13:17:56 UTC-5	46	R2401504-014	300	300.0 S	
47	10-122723FAST	2024-02-27 13:24:48 UTC-5	47	R2401504-014 MS	300	300.0 S	
48	10-122723FAST	2024-02-27 13:31:41 UTC-5	48	R2401504-014 MSD	300	300.0 S	
49	10-122723FAST	2024-02-27 13:38:34 UTC-5	49	CCV	1	300.0/9056A	
50	10-122723FAST	2024-02-27 13:45:32 UTC-5	50	CCB	1	300.0/9056A	
51	10-122723FAST	2024-02-27 13:52:22 UTC-5	51	LCS	1	300.0/9056A	
52	10-122723FAST	2024-02-27 13:59:16 UTC-5	52	R2401280-002	20	300.0 S	
53	10-122723FAST	2024-02-27 14:06:08 UTC-5	53	R2401505-001	20	300.0 C	
54	10-122723FAST	2024-02-27 14:13:01 UTC-5	54	R2401532-001	10	300.0 BN	
55	10-122723FAST	2024-02-27 14:19:57 UTC-5	55	R2401532-001 DNR	40	300.0 CBNS	
56	10-122723FAST	2024-02-27 14:26:49 UTC-5	56	R2401530-001	10	300.0 CBNS	
57	10-122723FAST	2024-02-27 14:33:41 UTC-5	57	R2401530-001 MS	10	300.0 CBNS	
58	10-122723FAST	2024-02-27 14:40:34 UTC-5	58	R2401530-001 MSD	10	300.0 CBNS	
59	10-122723FAST	2024-02-27 14:47:27 UTC-5	59	R2401530-002	10	300.0 CBN	
60	10-122723FAST	2024-02-27 14:54:20 UTC-5	60	R2401530-003	10	300.0 CBN	
61	10-122723FAST	2024-02-27 15:01:12 UTC-5	61	CCV	1	300.0/9056A	
62	10-122723FAST	2024-02-27 15:08:05 UTC-5	62	CCB	1	300.0/9056A	
63	10-122723FAST	2024-02-27 15:14:55 UTC-5	63	R2401530-004	10	300.0 CBNS	

Determination overview

	Method name	Determination start	Position	Ident	Dilution	Info 1	Info 2
64	10-122723FAST	2024-02-27 15:21:47 UTC-5	64	R2401530-005	10	300.0 CBN	
65	10-122723FAST	2024-02-27 15:28:41 UTC-5	65	R2401530-006	10	300.0 CBNS	
66	10-122723FAST	2024-02-27 15:35:36 UTC-5	66	R2401141-008	10	300.0 C	
67	10-122723FAST	2024-02-27 15:42:30 UTC-5	67	R2401141-008 MS	10	300.0 C	
68	10-122723FAST	2024-02-27 15:49:23 UTC-5	68	R2401141-008 MSD	10	300.0 C	
69	10-122723FAST	2024-02-27 15:56:15 UTC-5	69	R2401431-001	1	300.0 F	
70	10-122723FAST	2024-02-27 16:03:08 UTC-5	70	R2401398-003	1	300.0 F	
71	10-122723FAST	2024-02-27 16:10:00 UTC-5	71	R2401398-003	10	300.0 C	
72	10-122723FAST	2024-02-27 16:16:52 UTC-5	72	R2401398-003 DNR	40	300.0 S	
73	10-122723FAST	2024-02-27 16:23:47 UTC-5	73	CCV	1	300.0/9056A	
74	10-122723FAST	2024-02-27 16:30:45 UTC-5	74	CCB	1	300.0/9056A	
75	10-122723FAST	2024-02-27 16:37:35 UTC-5	75	LCS	1	300.0/9056A	
76	10-122723FAST	2024-02-27 16:44:37 UTC-5	76	R2401135-003	10000	9056A C	
77	10-122723FAST	2024-02-27 16:51:29 UTC-5	77	R2401135-004	400	9056A C	
78	10-122723FAST	2024-02-27 16:58:21 UTC-5	78	R2401188-001	200	9056A C	
79	10-122723FAST	2024-02-27 17:05:17 UTC-5	79	R2401188-001 MS!	200	9056A C	
80	10-122723FAST	2024-02-27 17:12:11 UTC-5	80	R2401188-001 MSD!	200	9056A C	
81	10-122723FAST	2024-02-27 17:19:04 UTC-5	81	R2401188-002	200	9056A C	
82	10-122723FAST	2024-02-27 17:25:55 UTC-5	82	R2401153-001	100	9056A C	
83	10-122723FAST	2024-02-27 17:32:48 UTC-5	83	R2401153-003	10000	9056A C	
84	10-122723FAST	2024-02-27 17:39:40 UTC-5	84	R2401372-001	1000	9056A C	
85	10-122723FAST	2024-02-27 17:46:36 UTC-5	85	CCV	1	300.0/9056A	
86	10-122723FAST	2024-02-27 17:53:30 UTC-5	86	CCB	1	300.0/9056A	
87	10-122723FAST	2024-02-27 18:00:21 UTC-5	87	R2401415-001	30	9056A C	
88	10-122723FAST	2024-02-27 18:07:13 UTC-5	88	R2401415-002	30	9056A C	
89	10-122723FAST	2024-02-27 18:14:05 UTC-5	89	R2401469-001	200	9056A CS	
90	10-122723FAST	2024-02-27 18:20:58 UTC-5	90	R2401469-001 MS!	200	9056A CS	
91	10-122723FAST	2024-02-27 18:27:52 UTC-5	91	R2401469-001 MSD!	200	9056A CS	
92	10-122723FAST	2024-02-27 18:34:46 UTC-5	92	R2401485-001	10	9056A S	
93	10-122723FAST	2024-02-27 18:41:39 UTC-5	93	R2401485-002	10	9056A S	
94	10-122723FAST	2024-02-27 18:48:34 UTC-5	94	R2401485-003	10	9056A C	
95	10-122723FAST	2024-02-27 18:55:28 UTC-5	95	R2401485-004	10	9056A CS	
96	10-122723FAST	2024-02-27 19:02:20 UTC-5	96	R2401485-005	10	9056A C	
97	10-122723FAST	2024-02-27 19:09:12 UTC-5	97	CCV	1	300.0/9056A	
98	10-122723FAST	2024-02-27 19:16:06 UTC-5	98	CCB	1	300.0/9056A	
99	10-122723FAST	2024-02-27 19:22:57 UTC-5	99	LCS	1	300.0/9056A	
100	10-122723FAST	2024-02-27 19:29:50 UTC-5	100	R2401485-006	10	9056A C	
101	10-122723FAST	2024-02-27 19:36:43 UTC-5	101	R2401485-007	10	9056A C	
102	10-122723FAST	2024-02-27 19:43:35 UTC-5	102	R2401485-007 MS	10	9056A C	
103	10-122723FAST	2024-02-27 19:50:28 UTC-5	103	R2401485-007 MSD	10	9056A C	
104	10-122723FAST	2024-02-27 19:57:21 UTC-5	104	R2401485-008 DNR	10	9056A CS	
105	10-122723FAST	2024-02-27 20:04:14 UTC-5	105	R2401485-009	10	9056A S	
106	10-122723FAST	2024-02-27 20:11:09 UTC-5	106	R2401485-010	10	9056A C	
107	10-122723FAST	2024-02-27 20:18:02 UTC-5	107	R2401485-011	10	9056A C	
108	10-122723FAST	2024-02-27 20:24:54 UTC-5	108	R2401485-012	10	9056A C	
109	10-122723FAST	2024-02-27 20:31:46 UTC-5	109	CCV	1	300.0/9056A	
110	10-122723FAST	2024-02-27 20:38:40 UTC-5	110	CCB	1	300.0/9056A	
111	10-122723FAST	2024-02-27 20:45:31 UTC-5	111	R2401485-013	10	9056A C	
112	10-122723FAST	2024-02-27 20:52:24 UTC-5	112	R2401485-014	10	9056A C	
113	10-122723FAST	2024-02-27 20:59:16 UTC-5	113	R2401485-015	10	9056A C	
114	10-122723FAST	2024-02-27 21:06:09 UTC-5	114	R2401485-017	10	9056A CS	
115	10-122723FAST	2024-02-27 21:13:02 UTC-5	115	R2401485-017 MS	10	9056A CS	
116	10-122723FAST	2024-02-27 21:19:56 UTC-5	116	R2401485-017 MSD	10	9056A CS	
117	10-122723FAST	2024-02-27 21:26:48 UTC-5	117	R2401485-018	10	9056A CS	
118	10-122723FAST	2024-02-27 21:33:41 UTC-5	118	R2401485-019	10	9056A C	
119	10-122723FAST	2024-02-27 21:40:33 UTC-5	119	R2401485-020	10	9056A C	
120	10-122723FAST	2024-02-27 21:47:30 UTC-5	120	CCV	1	300.0/9056A	
121	10-122723FAST	2024-02-27 21:54:24 UTC-5	121	CCB	1	300.0/9056A	
122	10-122723FAST	2024-02-27 22:01:15 UTC-5	122	LCS	1	300.0/9056A	
123	10-122723FAST	2024-02-27 22:08:09 UTC-5	123	R2401541-001	10	300.0 CBN	
124	10-122723FAST	2024-02-27 22:15:02 UTC-5	124	R2401541-001 MS	10	300.0 CBN	
125	10-122723FAST	2024-02-27 22:21:55 UTC-5	125	R2401541-001 MSD	10	300.0 CBN	
126	10-122723FAST	2024-02-27 22:28:56 UTC-5	126	R2401541-003	10	300.0 CBN	

Determination overview

	Method name	Determination start	Position	Ident	Dilution	Info 1	Info 2
127	10-122723FAST	2024-02-27 22:35:54 UTC-5	127	R2401541-005	10	300.0 CBN	
128	10-122723FAST	2024-02-27 22:42:53 UTC-5	128	R2401541-007	10	300.0 BN	
129	10-122723FAST	2024-02-27 22:49:51 UTC-5	129	R2401541-009	10	300.0 BN	
130	10-122723FAST	2024-02-27 22:56:49 UTC-5	130	R2401541-011	10	300.0 CBN	
131	10-122723FAST	2024-02-27 23:03:48 UTC-5	131	R2401541-013	10	300.0 CBN	
132	10-122723FAST	2024-02-27 23:10:48 UTC-5	132	CCV	1	300.0/9056A	
133	10-122723FAST	2024-02-27 23:17:49 UTC-5	133	CCB	1	300.0/9056A	
134	10-122723FAST	2024-02-27 23:24:46 UTC-5	134	R2401541-015	10	300.0 CBN	
135	10-122723FAST	2024-02-27 23:31:46 UTC-5	135	R2401541-015 MS	10	300.0 CBN	
136	10-122723FAST	2024-02-27 23:38:47 UTC-5	136	R2401541-015 MSD	10	300.0 CBN	
137	10-122723FAST	2024-02-27 23:45:45 UTC-5	137	R2401541-017	10	300.0 CBN	
138	10-122723FAST	2024-02-27 23:52:43 UTC-5	138	R2401541-019	10	300.0 CBN	
139	10-122723FAST	2024-02-27 23:59:43 UTC-5	139	R2401541-021	10	300.0 CBN	
140	10-122723FAST	2024-02-28 00:06:39 UTC-5	140	CCV	1	300.0/9056A	
141	10-122723FAST	2024-02-28 00:13:39 UTC-5	141	CCB	1	300.0/9056A	

Sample Dilutions

Final Volume: 8-10mL - IC#3,10

Analyst: KW
Instrument: IC10

Date 2/27/24
Analysis 300.0/9056A

Common Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor
1/2	DI	4.5	4.5	1/2												
1/3	DI	3	6	1/3												
1/4	DI	2	6	1/4												
1/5	DI	2	8	1/5												
1/10	DI	1	9	1/10												
1/20	DI	3	3	1/2	1	9	1/20									
1/30	DI	3	6	1/3	1	9	1/30									
1/40	DI	1	3	1/4	1	9	1/40									
1/50	DI	1	4	1/5	1	9	1/50									
1/100	DI	1	9	1/10	1	9	1/100									
1/200	DI	3	3	1/2	1	9	1/20	1	9	1/200						
1/300	DI	3	6	1/3	1	9	1/30	1	9	1/300						
1/400	DI	1	3	1/4	1	9	1/40	1	9	1/400						
1/500	DI	1	4	1/5	1	9	1/50	1	9	1/500						
1/1000	DI	1	9	1/10	1	9	1/100	1	9	1/1000						
1/2000	DI	3	3	1/2	1	9	1/20	1	9	1/200	1	9	1/2000			
1/3000	DI	3	6	1/3	1	9	1/30	1	9	1/300	1	9	1/3000			
1/4000	DI	1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000			
1/10000	DI	1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000			
1/20000	DI	1	1	1/2	1	9	1/20	1	9	1/200	1	9	1/2000	1	9	1/20000
1/40000	DI	1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000	1	9	1/40000
1/100000	DI	1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000	1	9	1/100000

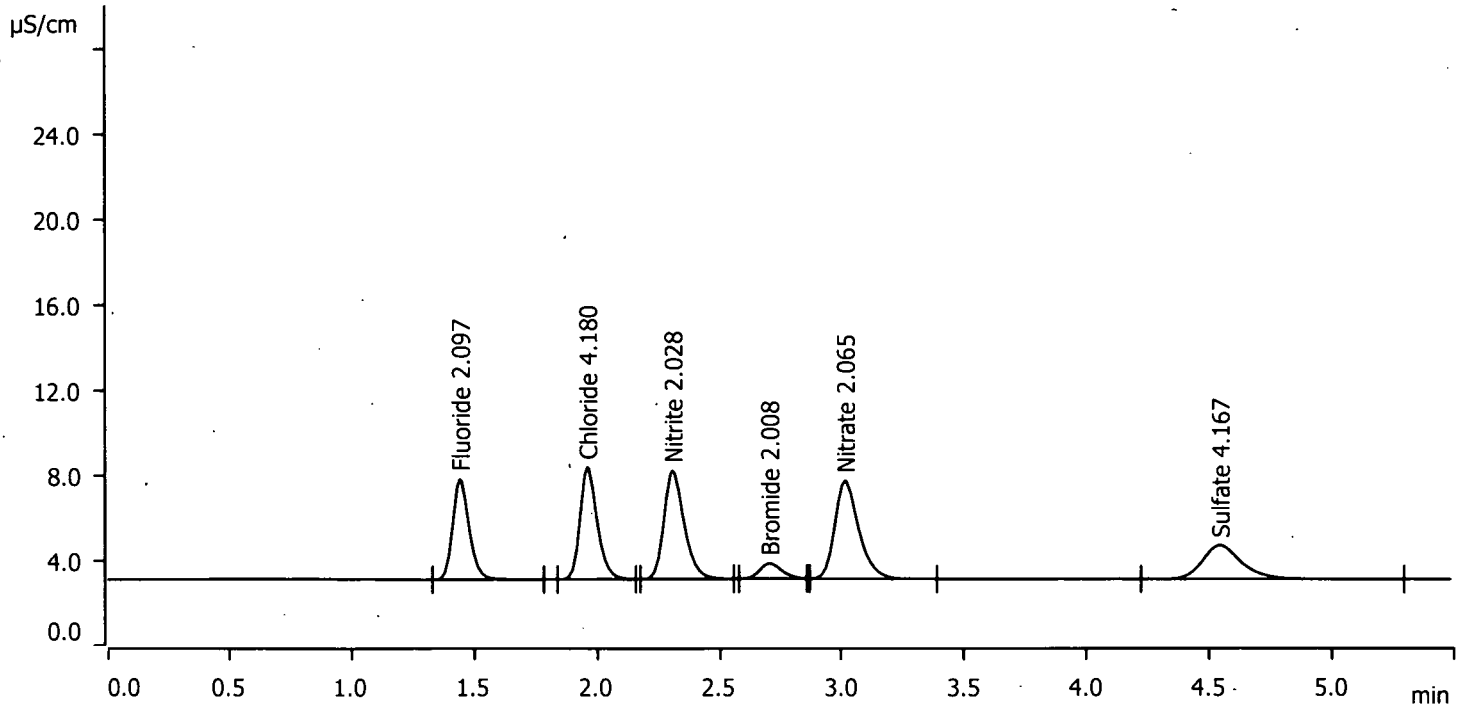
Special Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-02-27 06:18:28 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77080
Sample Position	1
Comment 1	300.0/9056A
Comment 2	

Anions



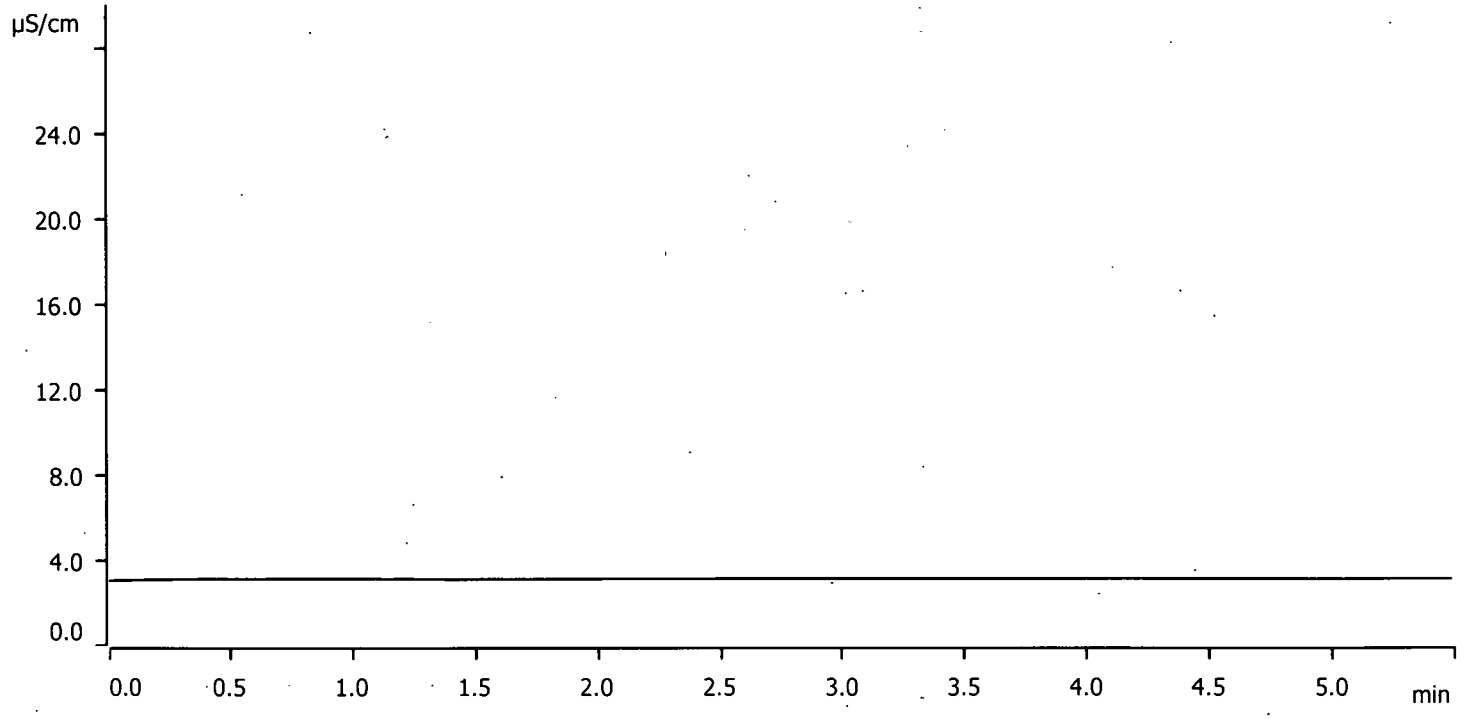
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.363	2.097	Fluoride	BB
2	1.96	0.428	4.180	Chloride	BB
3	2.31	0.489	2.028	Nitrite	BB
4	2.71	0.075	2.008	Bromide	BB
5	3.01	0.520	2.065	Nitrate	BB
6	4.54	0.291	4.167	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-02-27 06:25:24 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77081
Sample Position	2
Comment 1	300.0/9056A
Comment 2	

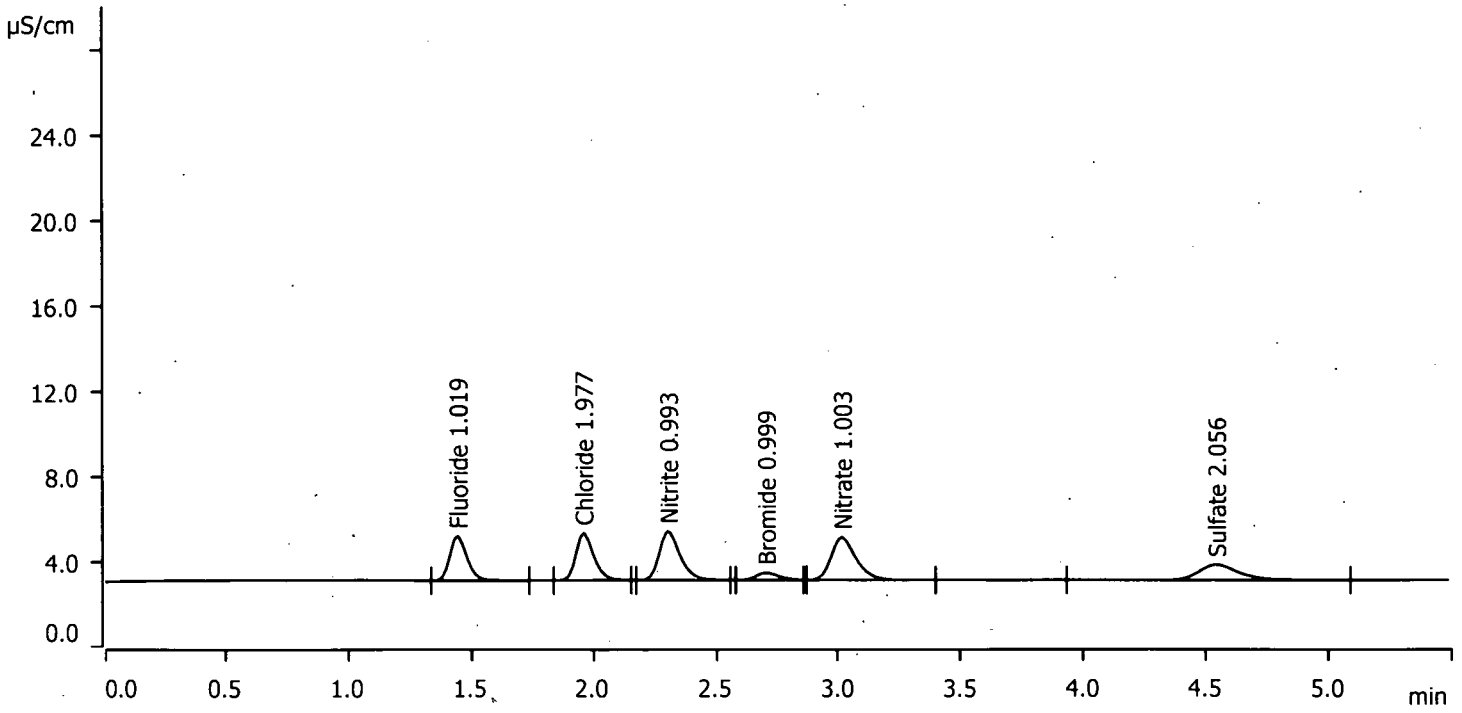
Anions



Sample data

Ident	LCS
Sample type	Check standard 2
Determination start	2024-02-27 06:32:15 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77082
Sample Position	3
Comment 1	300.0/9056A
Comment 2	

Anions



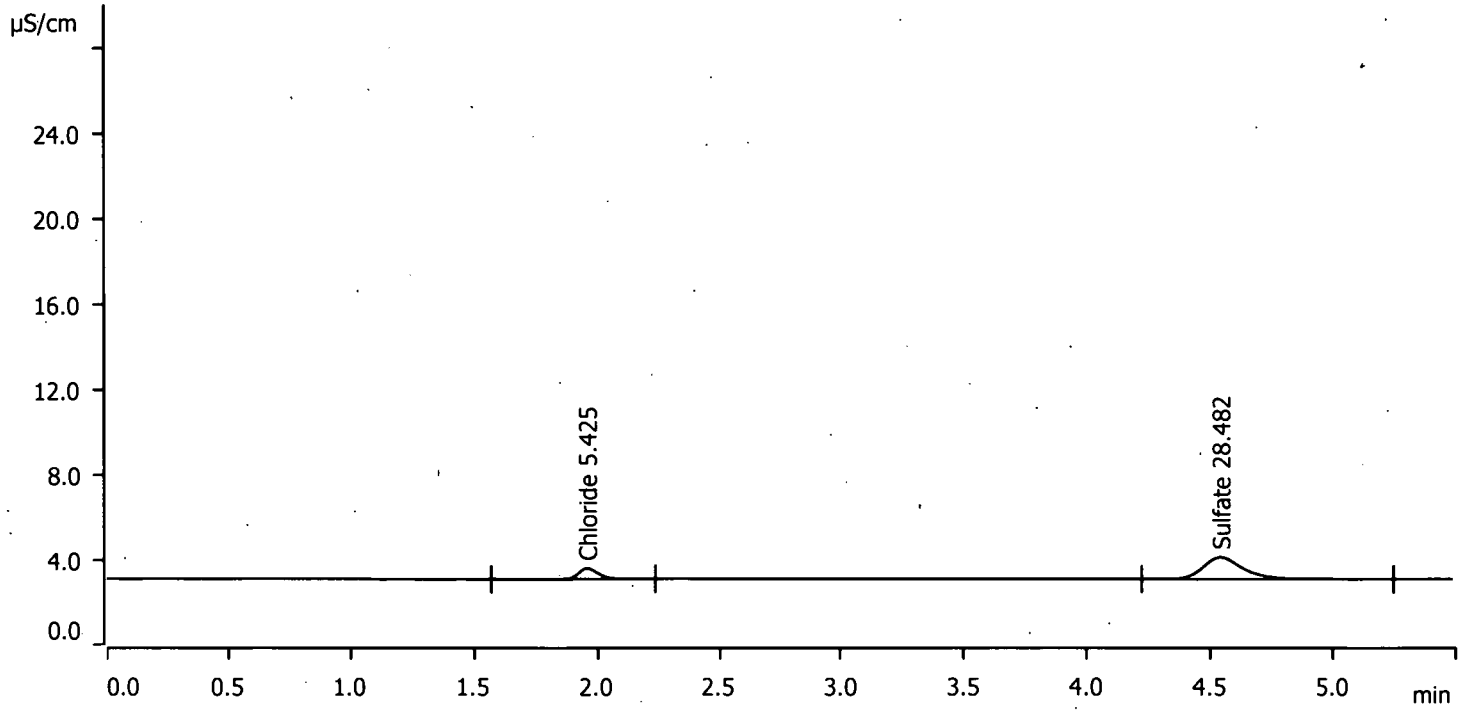
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.166	1.019	Fluoride	BB
2	1.96	0.187	1.977	Chloride	BB
3	2.31	0.225	0.993	Nitrite	BB
4	2.71	0.036	0.999	Bromide	BB
5	3.02	0.234	1.003	Nitrate	BB
6	4.54	0.138	2.056	Sulfate	BB

Sample data

Ident	R2401280-013
Sample type	Sample
Determination start	2024-02-27 06:43:26 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77083
Sample Position	4
Comment 1	300.0 S
Comment 2	

Anions



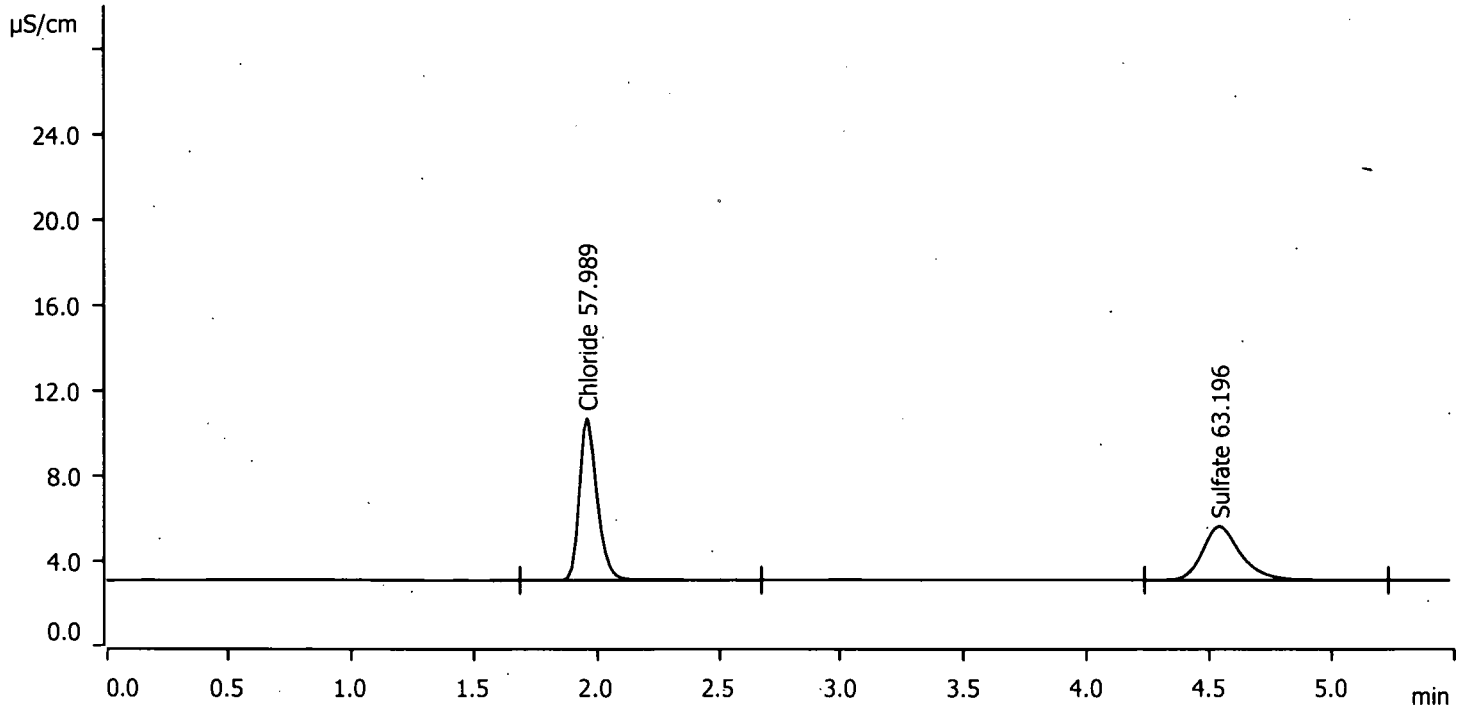
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.047	5.425	Chloride	BB
2	4.54	0.194	28.482	Sulfate	BB

Sample data

Ident	R2401280-014
Sample type	Sample
Determination start	2024-02-27 06:50:17 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77084
Sample Position	5
Comment 1	300.0 S
Comment 2	

Anions



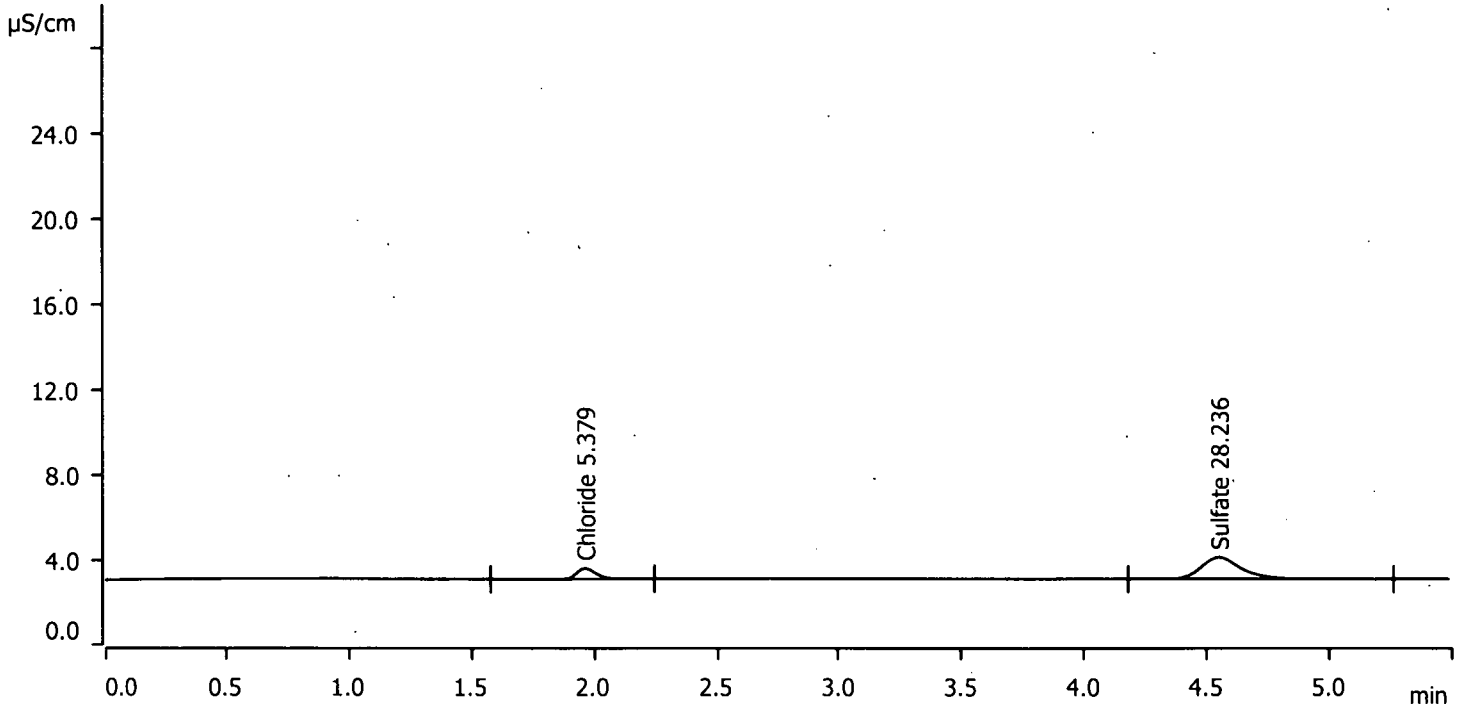
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.625	57.989	Chloride	BB
2	4.54	0.460	63.196	Sulfate	BB

Sample data

Ident	R2401280-015
Sample type	Sample
Determination start	2024-02-27 06:57:09 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77085
Sample Position	6
Comment 1	300.0 S
Comment 2	

Anions



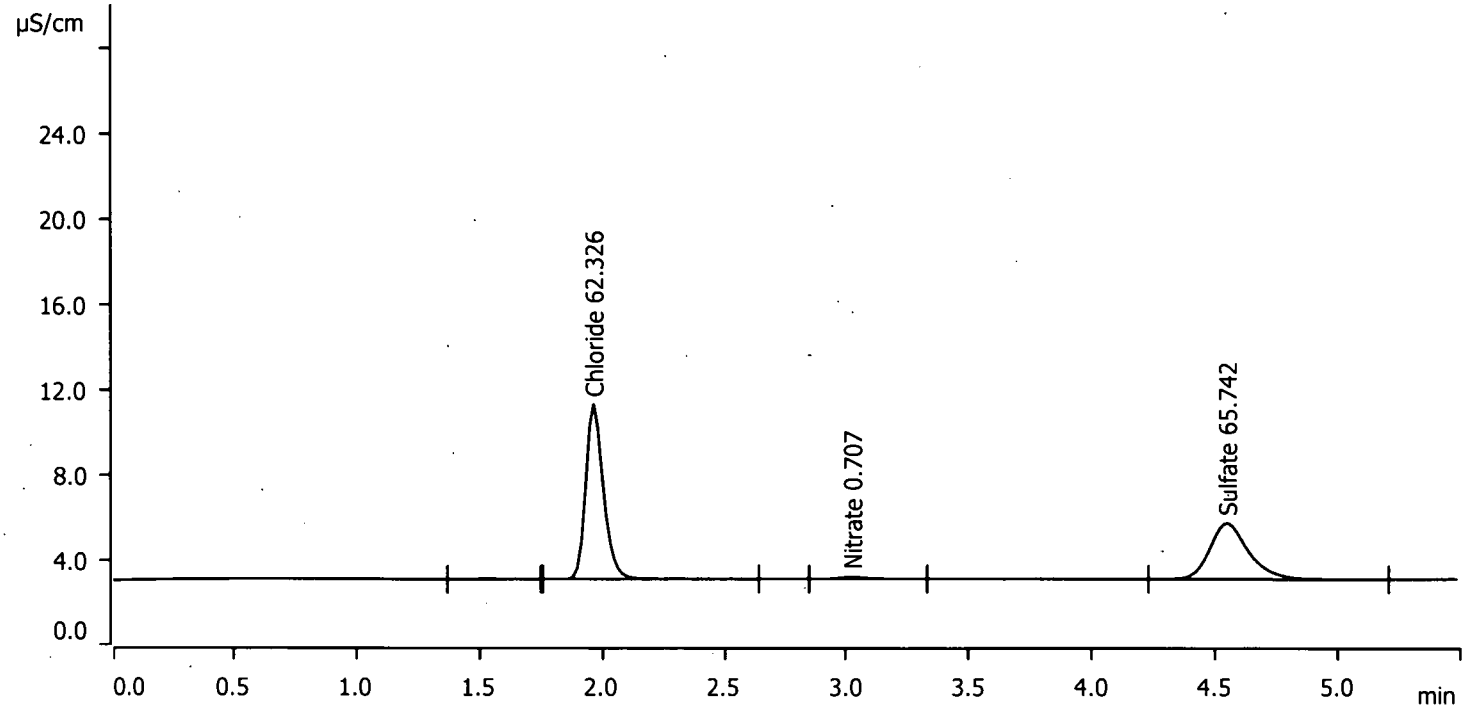
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.97	0.047	5.379	Chloride	BB
2	4.55	0.192	28.236	Sulfate	BB

Sample data

Ident	R2401280-016
Sample type	Sample
Determination start	2024-02-27 07:04:01 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77086
Sample Position	7
Comment 1	300.0 S
Comment 2	

Anions



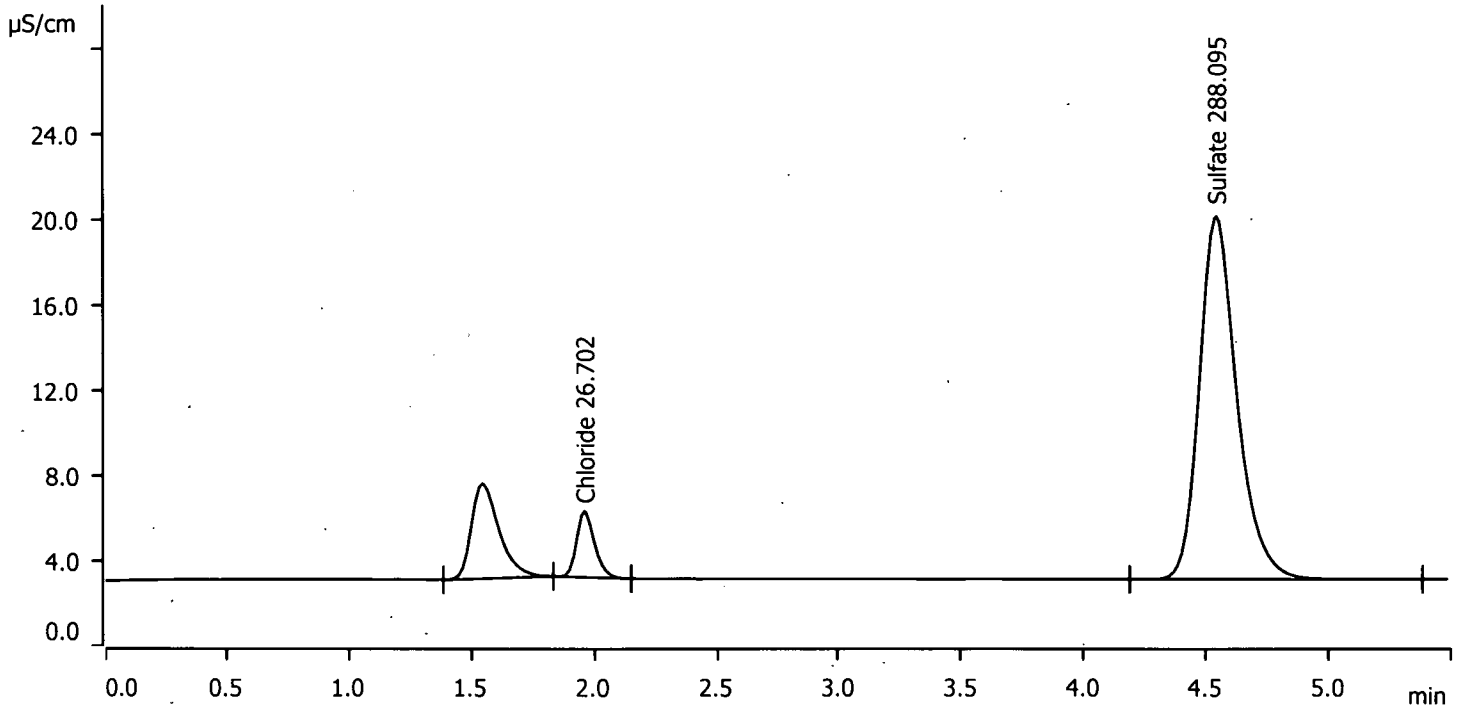
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.97	0.681	62.326	Chloride	BB
3	3.02	0.012	0.707	Nitrate	BB
4	4.55	0.481	65.742	Sulfate	BB

Sample data

Ident	R2401280-017 DNR
Sample type	Sample
Determination start	2024-02-27 07:10:53 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77087
Sample Position	8
Comment 1	300.0 S
Comment 2	

Anions



Anions

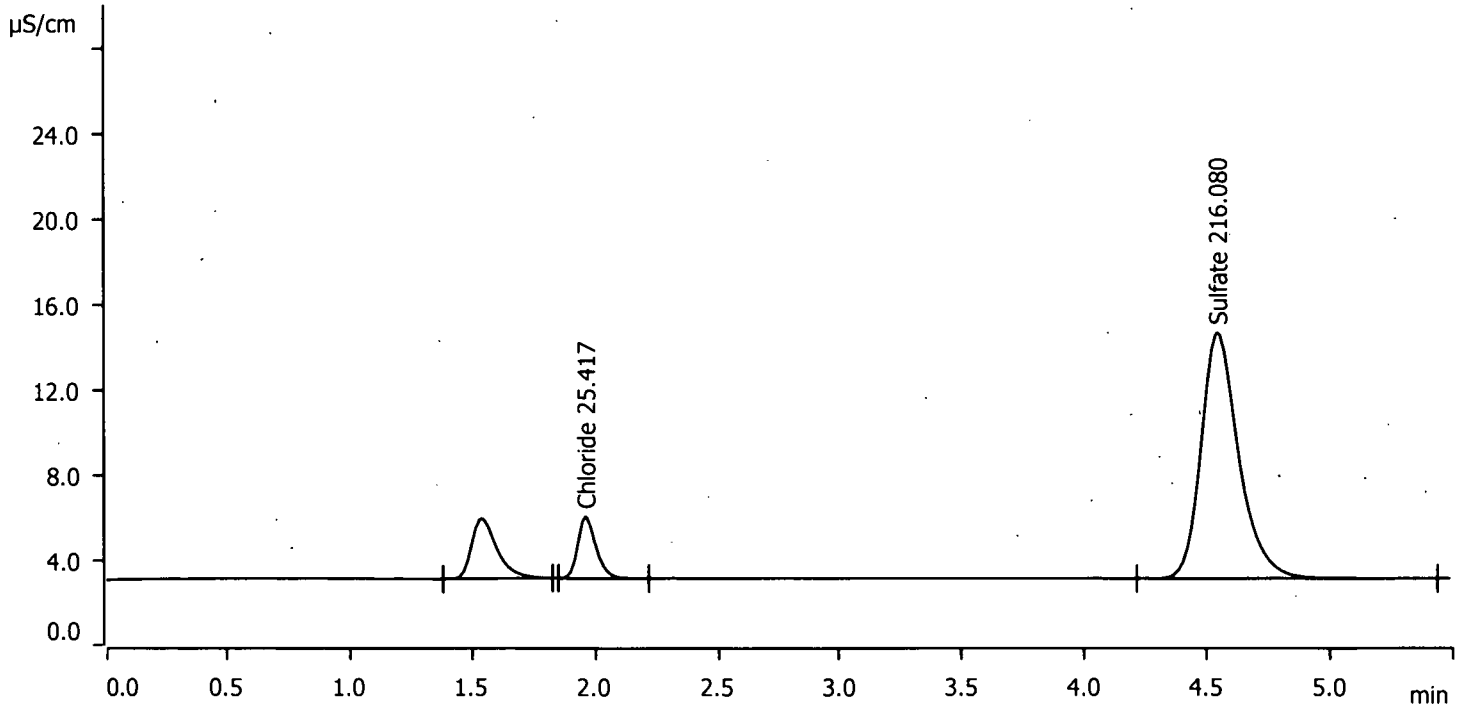
Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.260	26.702	Chloride	BB
3	4.54	3.012	288.095	Sulfate	BB

Page 1 of 1.

Sample data

Ident	R2401280-018 DNR
Sample type	Sample
Determination start	2024-02-27 07:17:45 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77088
Sample Position	9
Comment 1	300.0 S
Comment 2	

Anions



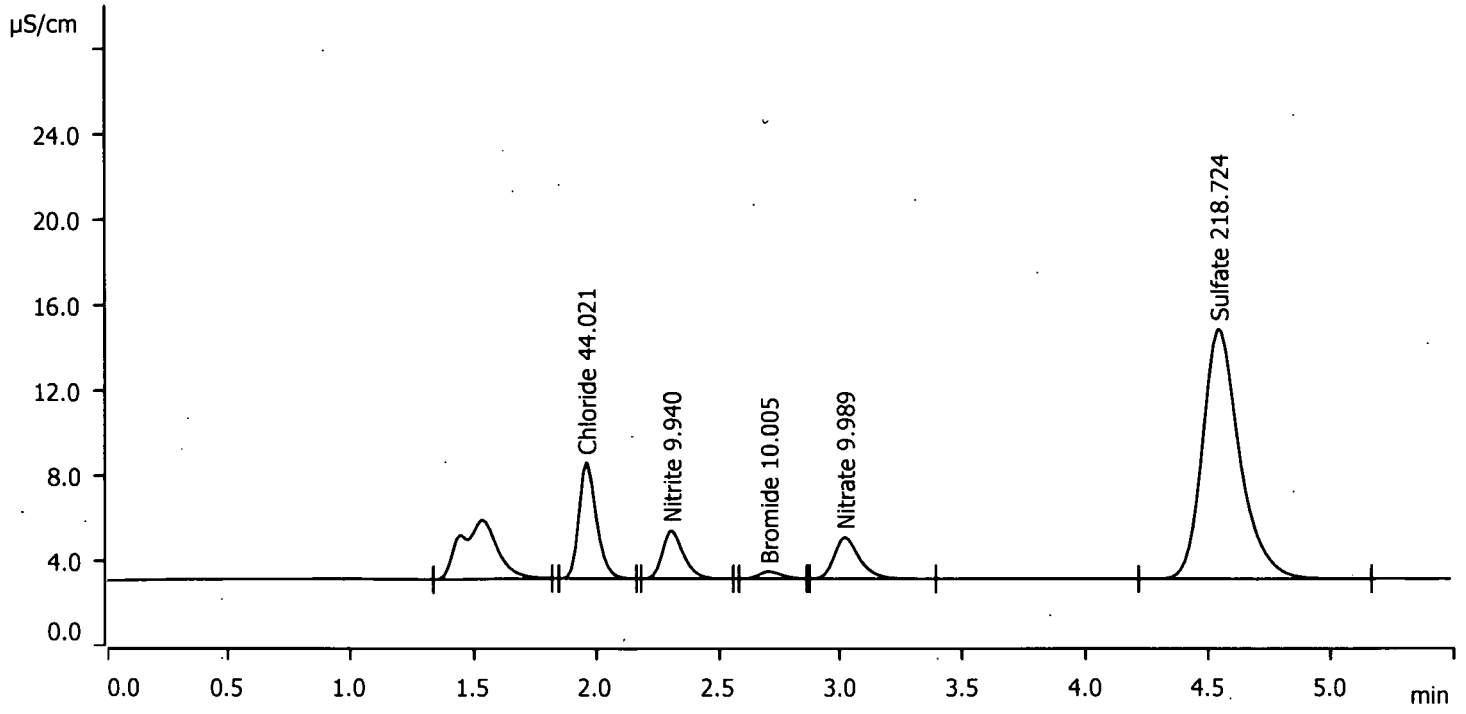
Anions

Peak number	Retention time	Area	Concentration	Component name	Type
	min	(µS/cm) x min	ppm		
2	1.96	0.246	25.417	Chloride	BB
3	4.54	2.039	216.080	Sulfate	BB

Sample data

Ident	R2401280-018 MS! DNR
Sample type	Sample
Determination start	2024-02-27 07:24:36 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77089
Sample Position	10
Comment 1	300.0 S
Comment 2	

Anions



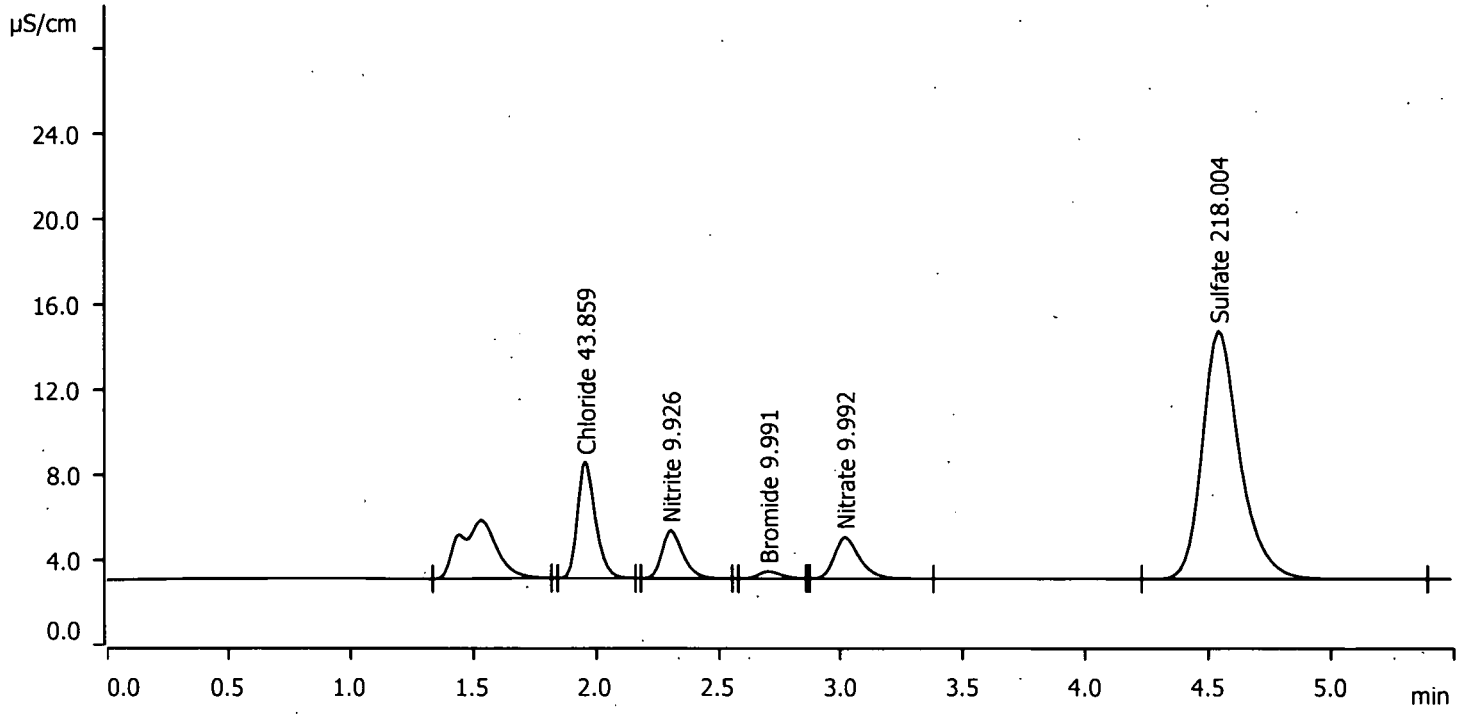
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.455	44.021	Chloride	BB
3	2.31	0.225	9.940	Nitrite	BB
4	2.71	0.036	10.005	Bromide	BB
5	3.02	0.233	9.989	Nitrate	BB
6	4.54	2.073	218.724	Sulfate	BB

Sample data

Ident	R2401280-018 MSD! DNR
Sample type	Sample
Determination start	2024-02-27 07:31:29 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77090
Sample Position	11
Comment 1	300.0 S
Comment 2	

Anions



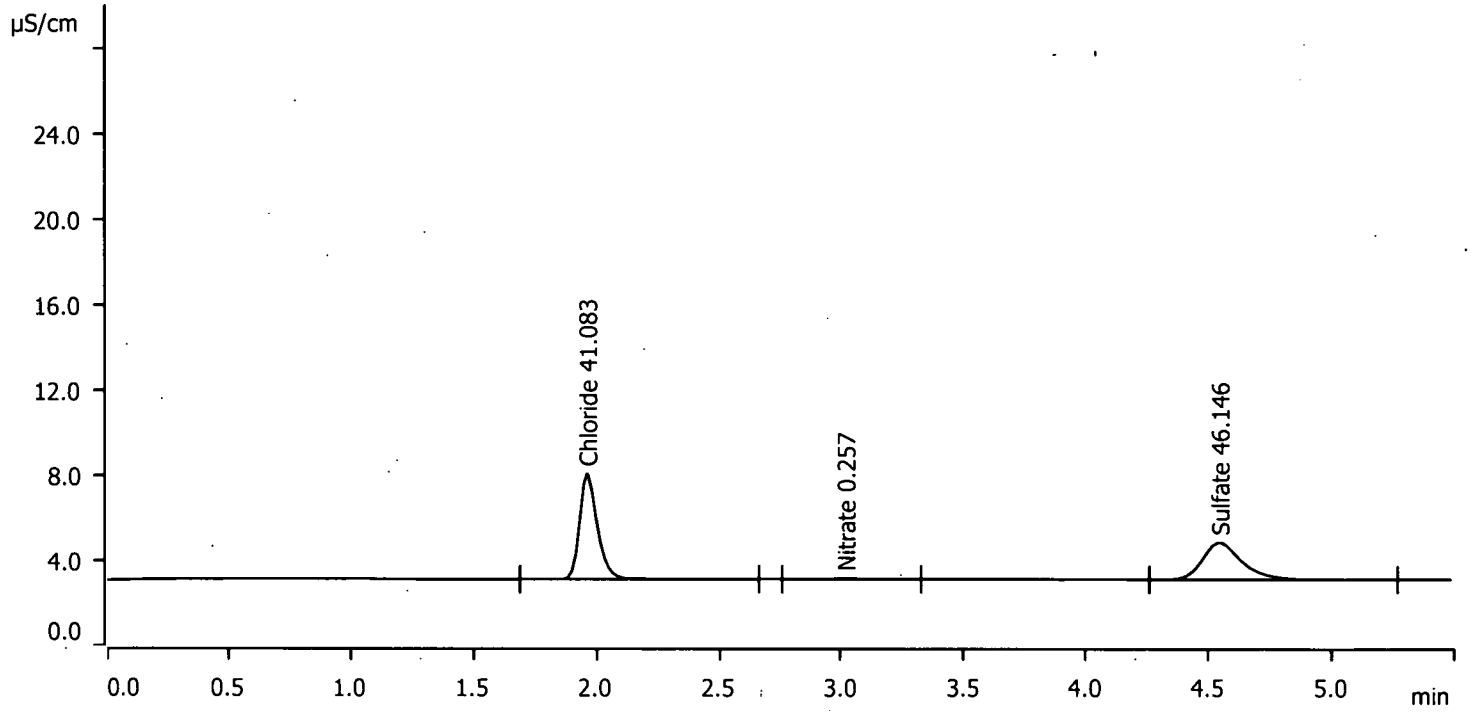
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.453	43.859	Chloride	BB
3	2.31	0.225	9.926	Nitrite	BB
4	2.70	0.036	9.991	Bromide	BB
5	3.02	0.233	9.992	Nitrate	BB
6	4.54	2.063	218.004	Sulfate	BB

Sample data

Ident	R2401280-019
Sample type	Sample
Determination start	2024-02-27 07:38:22 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77091
Sample Position	12
Comment 1	300.0 S
Comment 2	

Anions



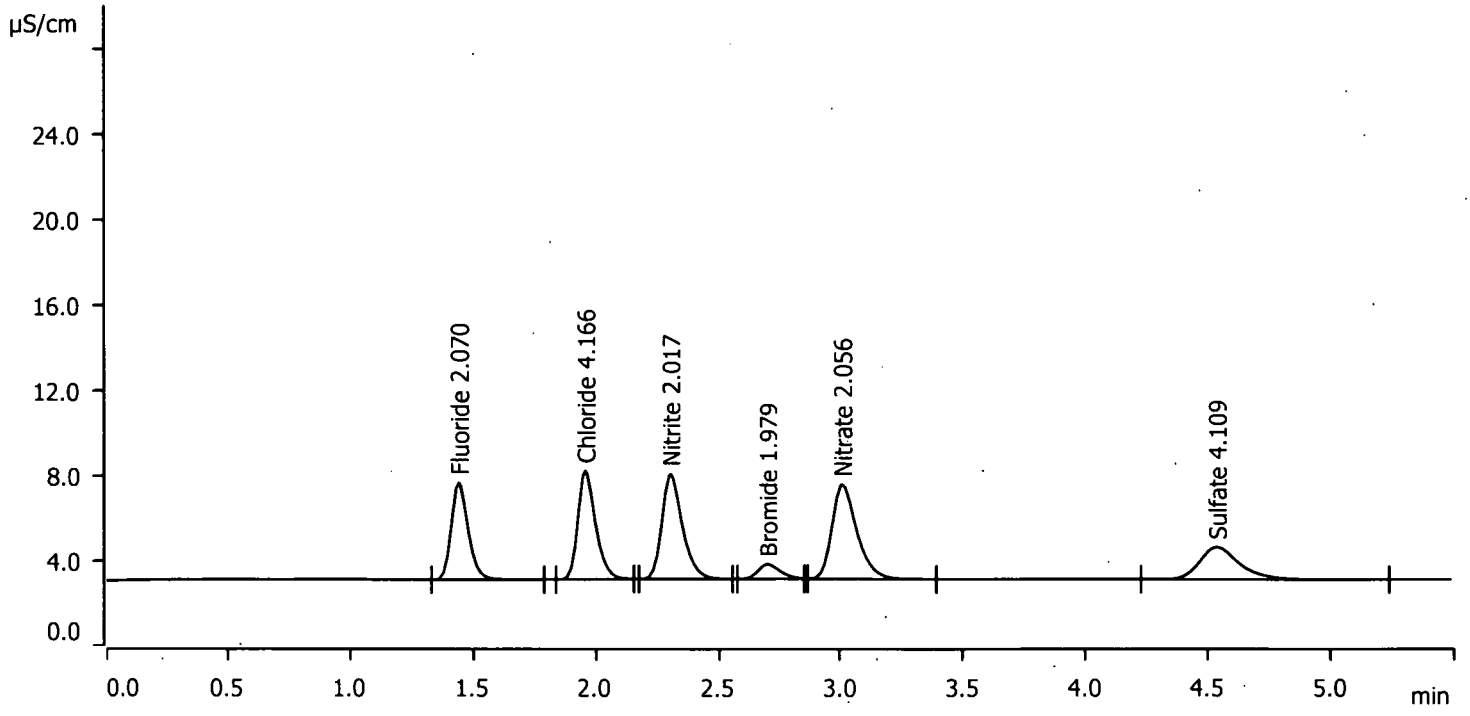
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.97	0.420	41.083	Chloride	BB
2	3.02	0.002	0.257	Nitrate	BB
3	4.54	0.325	46.146	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-02-27 07:45:14 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77092
Sample Position	13
Comment 1	300.0/9056A
Comment 2	

Anions



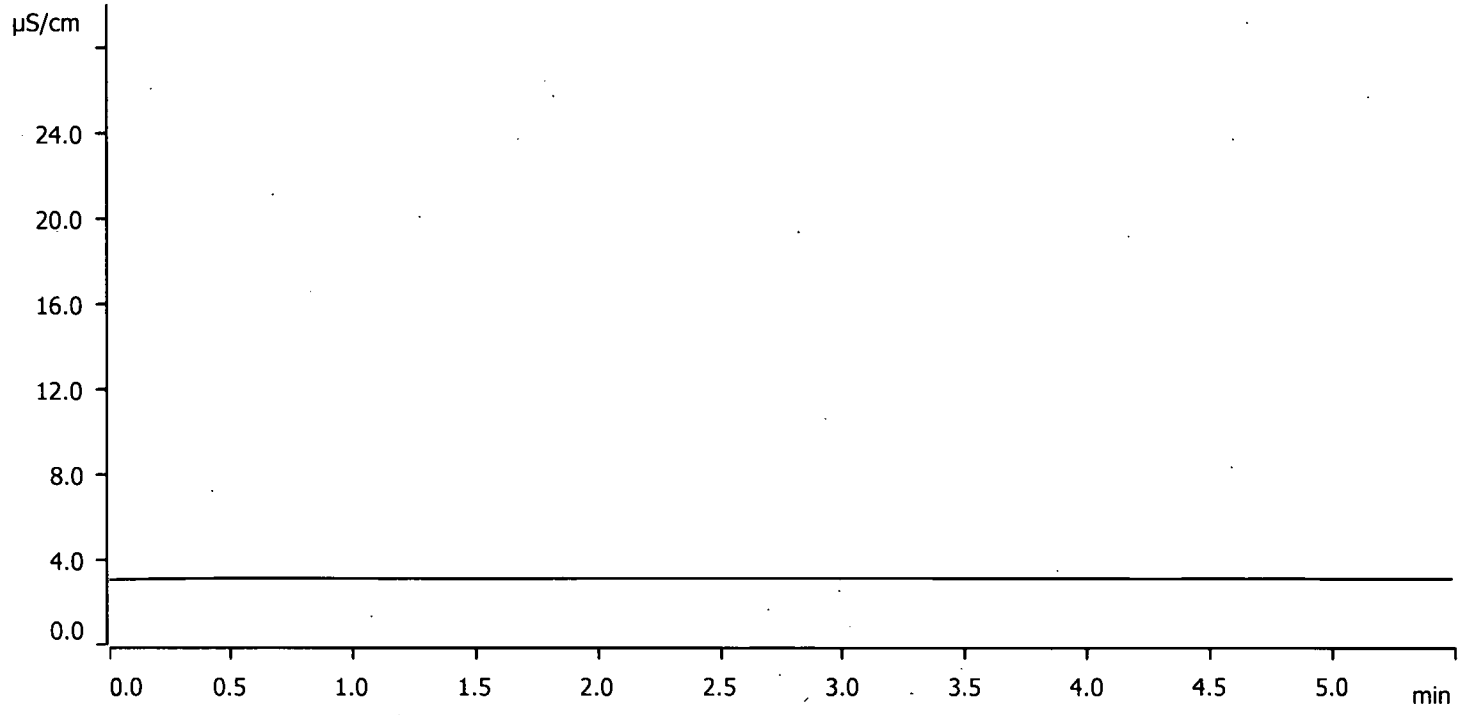
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.358	2.070	Fluoride	BB
2	1.96	0.427	4.166	Chloride	BB
3	2.31	0.486	2.017	Nitrite	BB
4	2.70	0.073	1.979	Bromide	BB
5	3.01	0.517	2.056	Nitrate	BB
6	4.53	0.287	4.109	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-02-27 07:52:08 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77093
Sample Position	14
Comment 1	300.0/9056A
Comment 2	

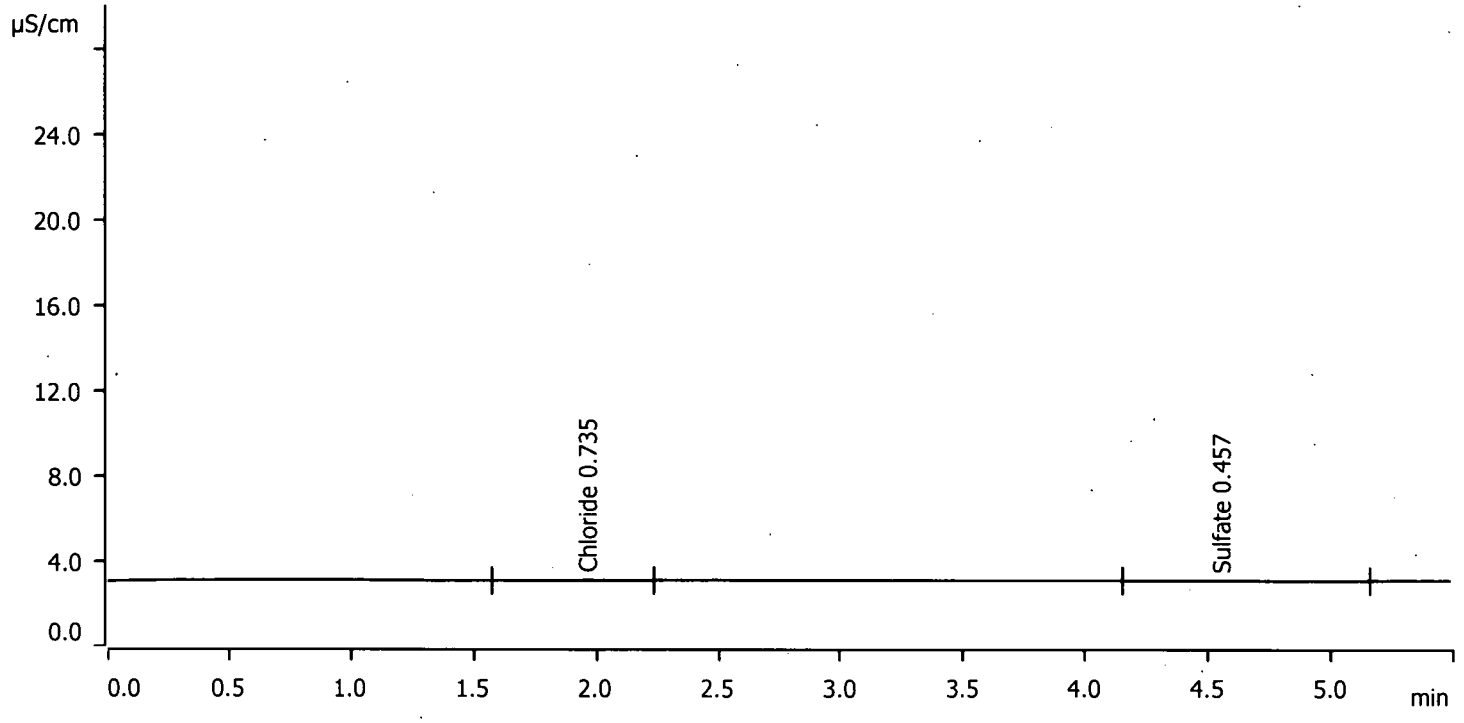
Anions



Sample data

Ident	R2401280-020
Sample type	Sample
Determination start	2024-02-27 07:58:58 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77094
Sample Position	15
Comment 1	300.0 S
Comment 2	

Anions



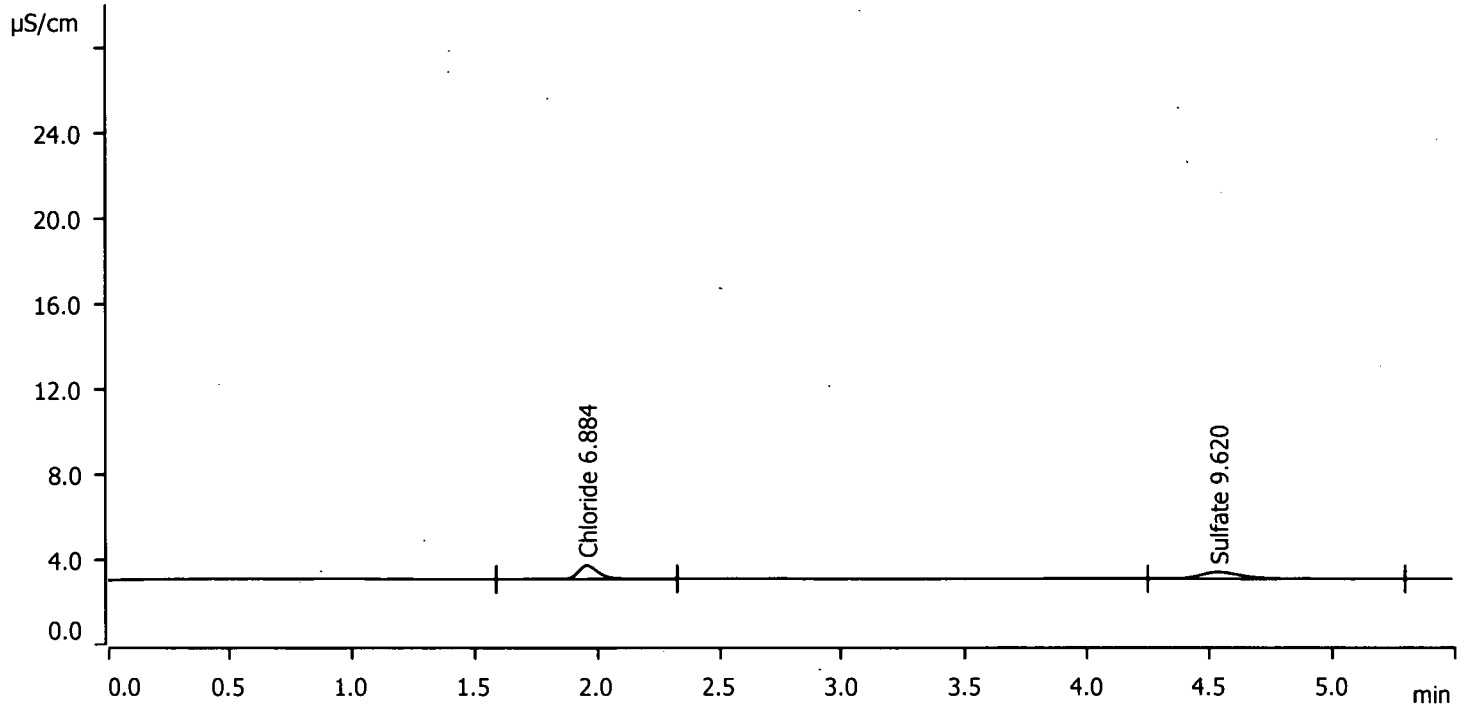
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.97	0.004	0.735	Chloride	BB
2	4.55	0.003	0.457	Sulfate	BBI

Sample data

Ident	R2401280-022
Sample type	Sample
Determination start	2024-02-27 08:05:52 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77095
Sample Position	16
Comment 1	300.0 S
Comment 2	

Anions



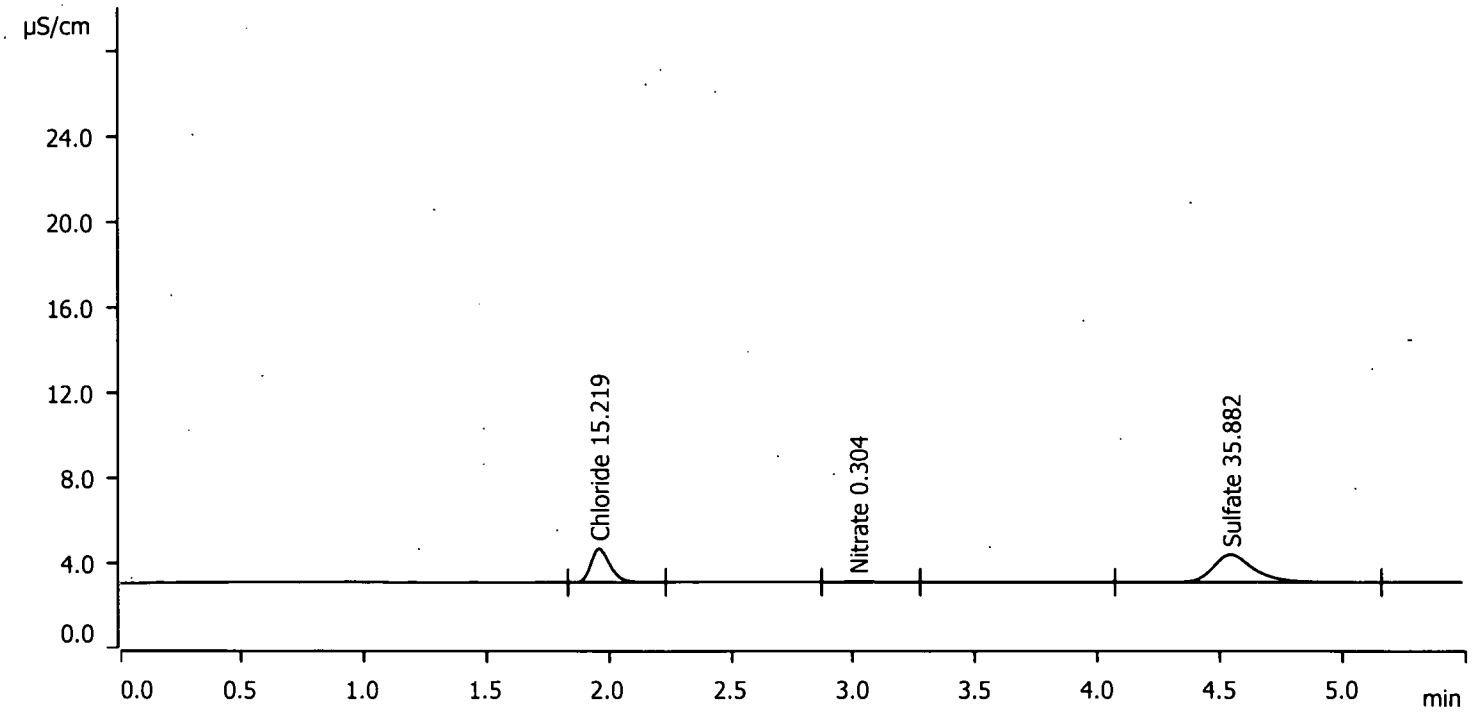
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.061	6.884	Chloride	BB
2	4.53	0.063	9.620	Sulfate	BB

Sample data

Ident	R2401280-023
Sample type	Sample
Determination start	2024-02-27 08:12:43 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77096
Sample Position	17
Comment 1	300.0 S
Comment 2	

Anions



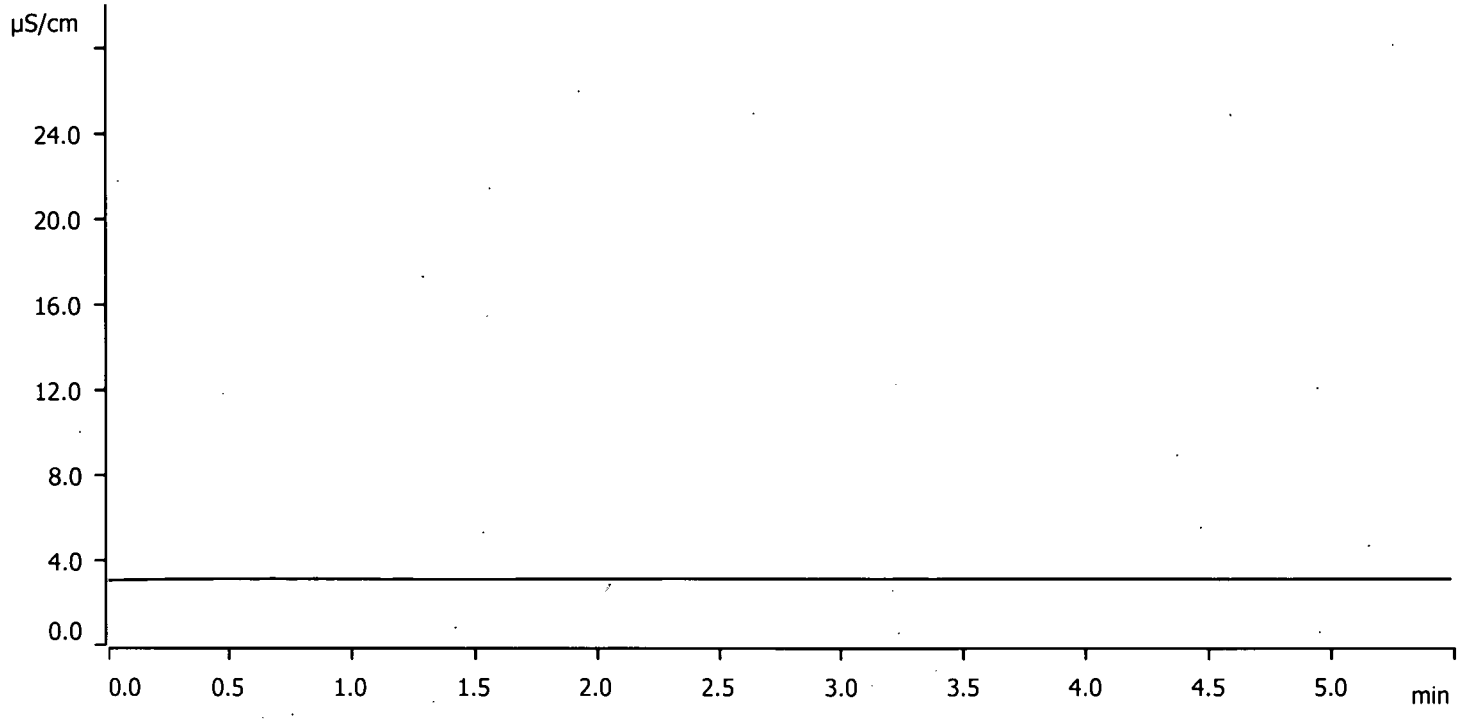
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.141	15.219	Chloride	BB
2	3.02	0.003	0.304	Nitrate	BB
3	4.54	0.248	35.882	Sulfate	BB

Sample data

Ident	R2401280-024
Sample type	Sample
Determination start	2024-02-27 08:19:34 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77097
Sample Position	18
Comment 1	300.0 S
Comment 2	

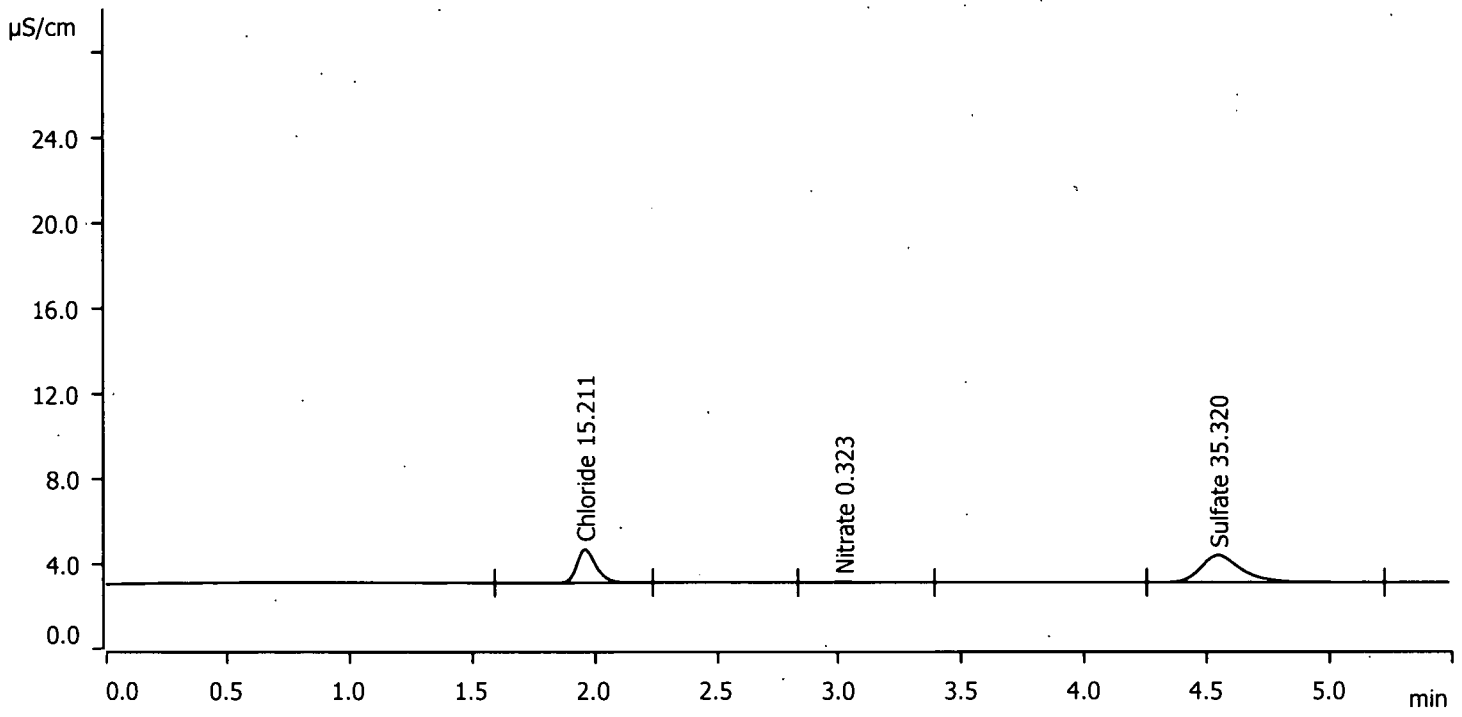
Anions



Sample data

Ident	R2401280-025
Sample type	Sample
Determination start	2024-02-27 08:26:25 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77098
Sample Position	19
Comment 1	300.0 S
Comment 2	

Anions



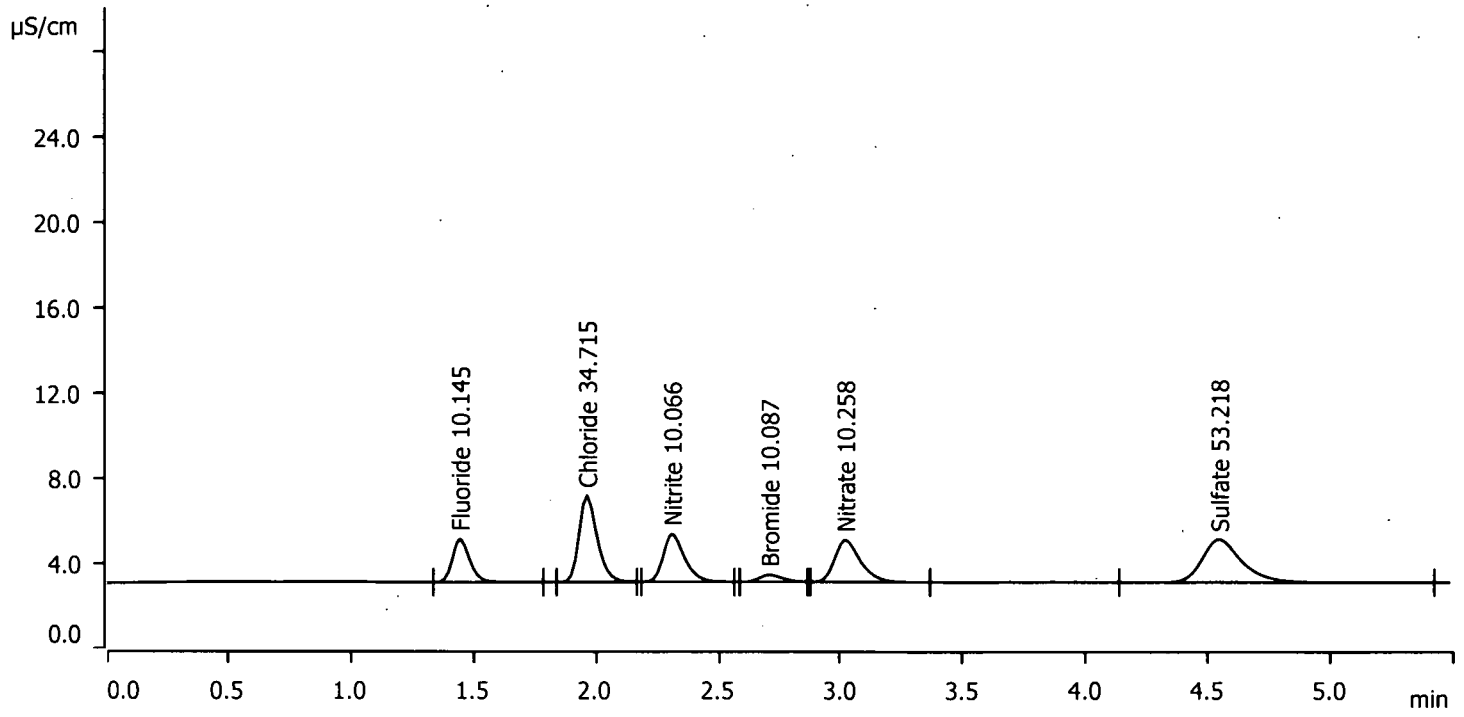
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.141	15.211	Chloride	BB
2	3.02	0.004	0.323	Nitrate	BB
3	4.54	0.244	35.320	Sulfate	BB

Sample data

Ident	R2401280-025 MS
Sample type	Sample
Determination start	2024-02-27 08:33:17 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77099
Sample Position	20
Comment 1	300.0 S
Comment 2	

Anions



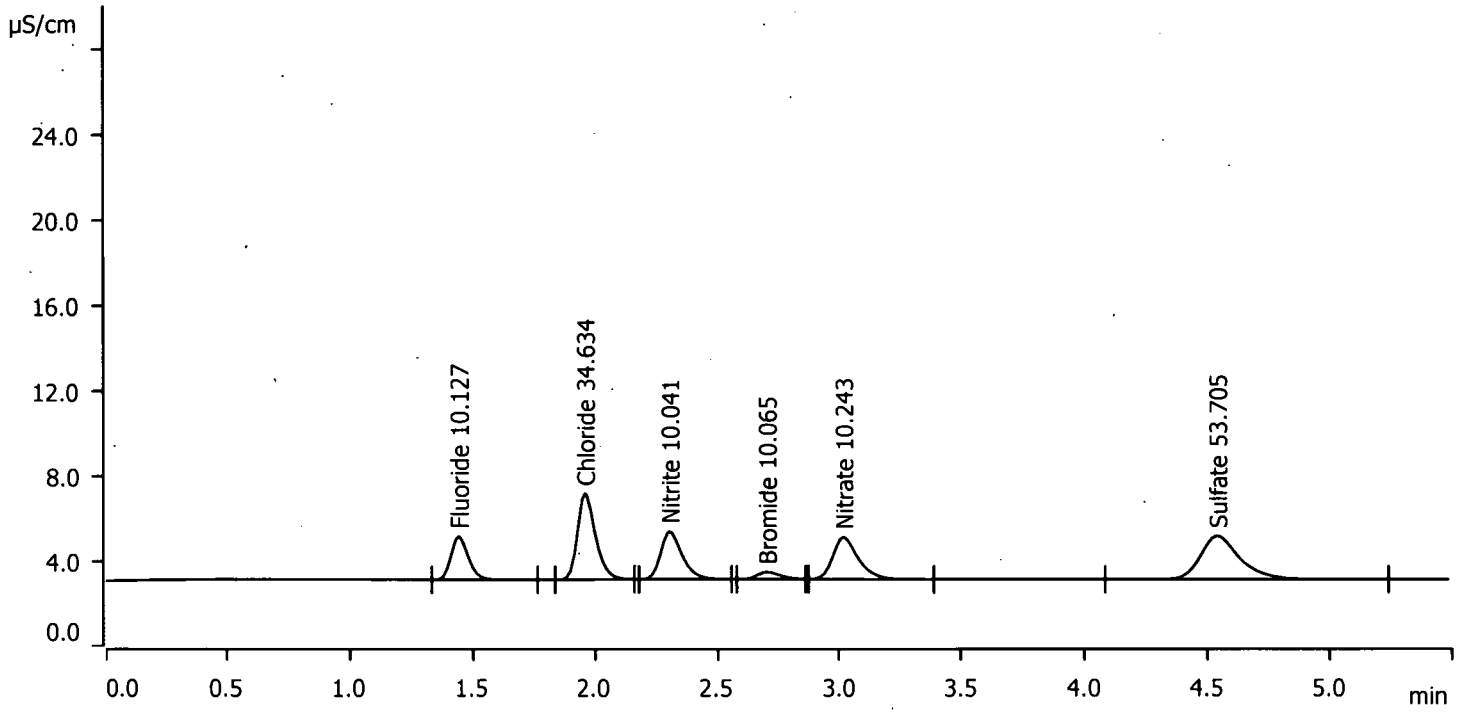
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.165	10.145	Fluoride	BB
2	1.97	0.348	34.715	Chloride	BB
3	2.31	0.228	10.066	Nitrite	BB
4	2.71	0.036	10.087	Bromide	BB
5	3.02	0.240	10.258	Nitrate	BB
6	4.54	0.380	53.218	Sulfate	BB

Sample data

Ident	R2401280-025 MSD
Sample type	Sample
Determination start	2024-02-27 08:40:12 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77100
Sample Position	21
Comment 1	300.0 S
Comment 2	

Anions



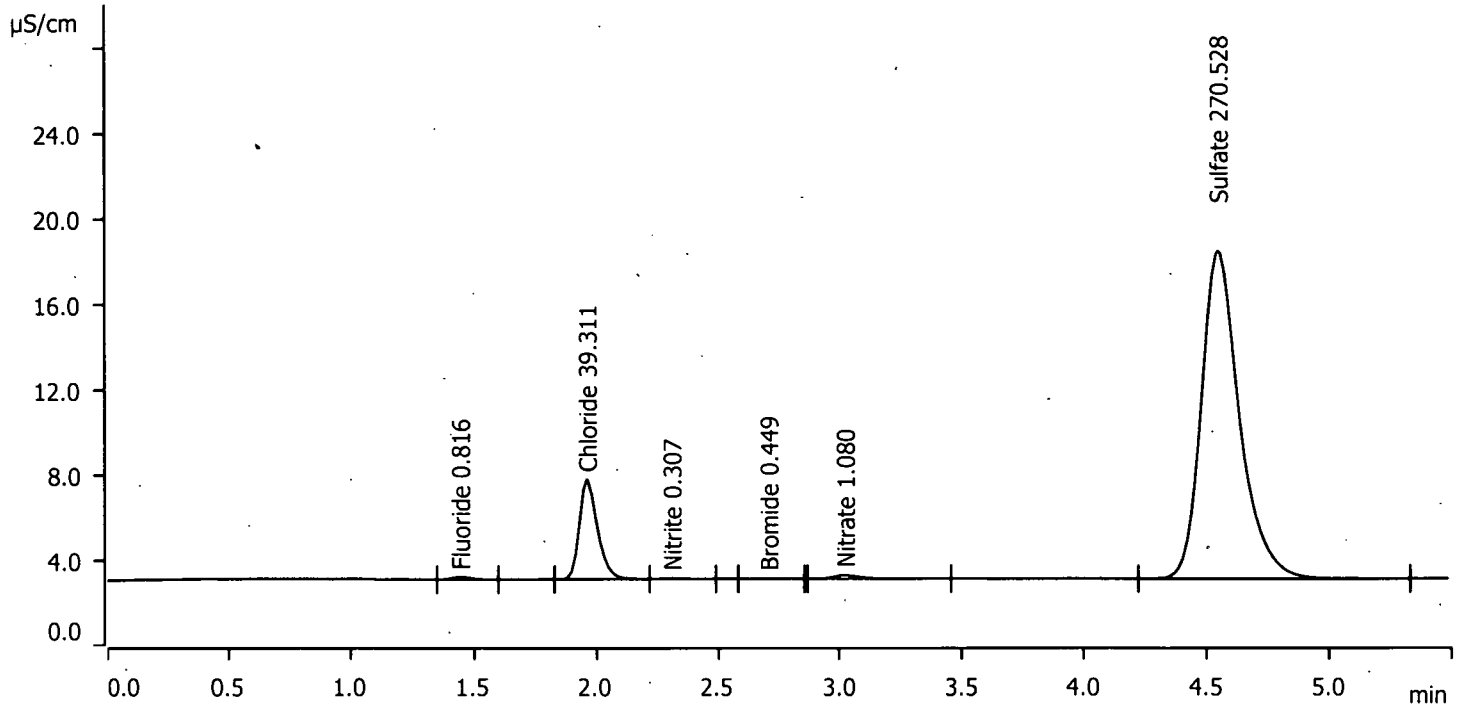
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.165	10.127	Fluoride	BB
2	1.96	0.347	34.634	Chloride	BB
3	2.31	0.228	10.041	Nitrite	BB
4	2.70	0.036	10.065	Bromide	BB
5	3.02	0.239	10.243	Nitrate	BB
6	4.54	0.384	53.705	Sulfate	BB

Sample data

Ident	R2401306-003
Sample type	Sample
Determination start	2024-02-27 08:47:05 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77101
Sample Position	22
Comment 1	300.0 C
Comment 2	

Anions



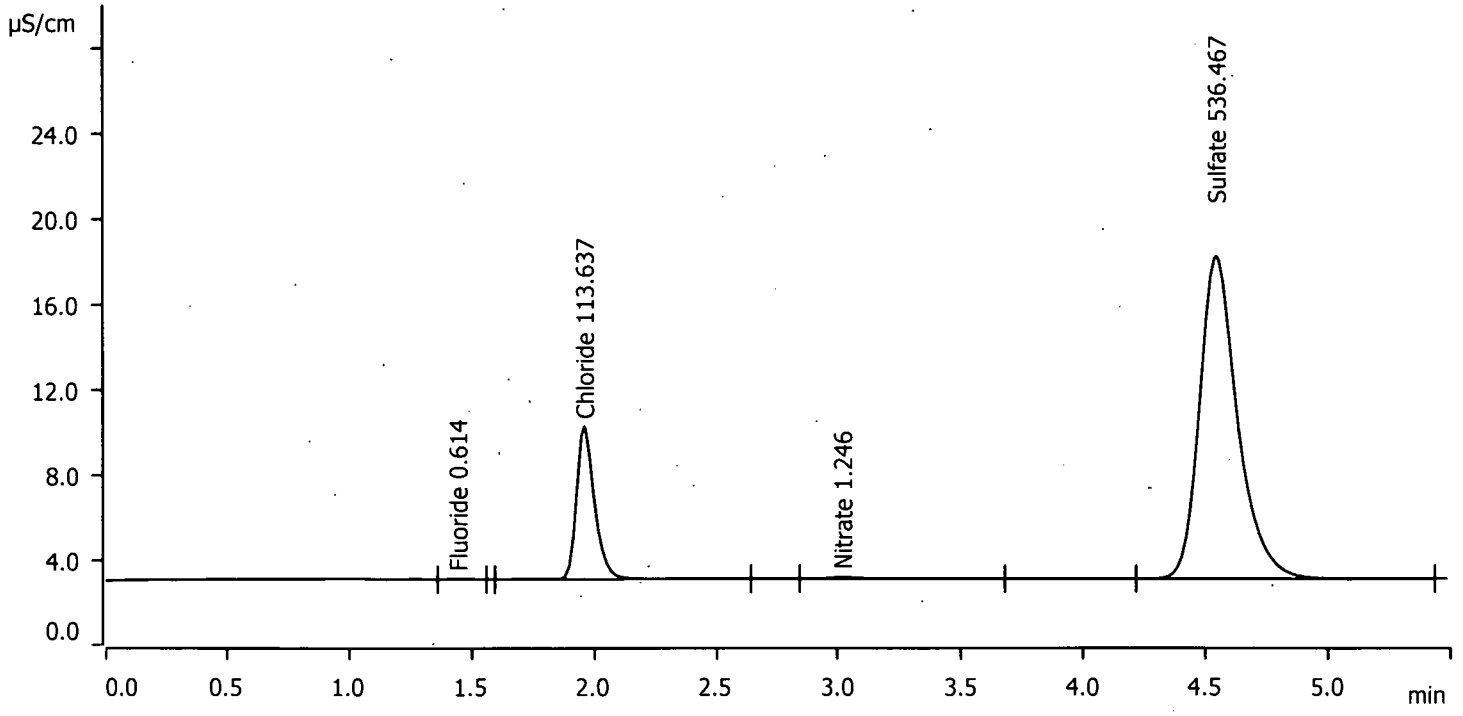
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.010	0.816	Fluoride	BB
2	1.97	0.400	39.311	Chloride	BB
3	2.31	0.003	0.307	Nitrite	BB
4	2.71	0.001	0.449	Bromide	BB
5	3.02	0.021	1.080	Nitrate	BB
6	4.54	2.761	270.528	Sulfate	BB

Sample data

Ident	R2401141-003
Sample type	Sample
Determination start	2024-02-27 08:53:58 UTC-5
Method	10-122723FAST
Dilution	20
Counter	77102
Sample Position	23
Comment 1	300.0 C
Comment 2	

Anions



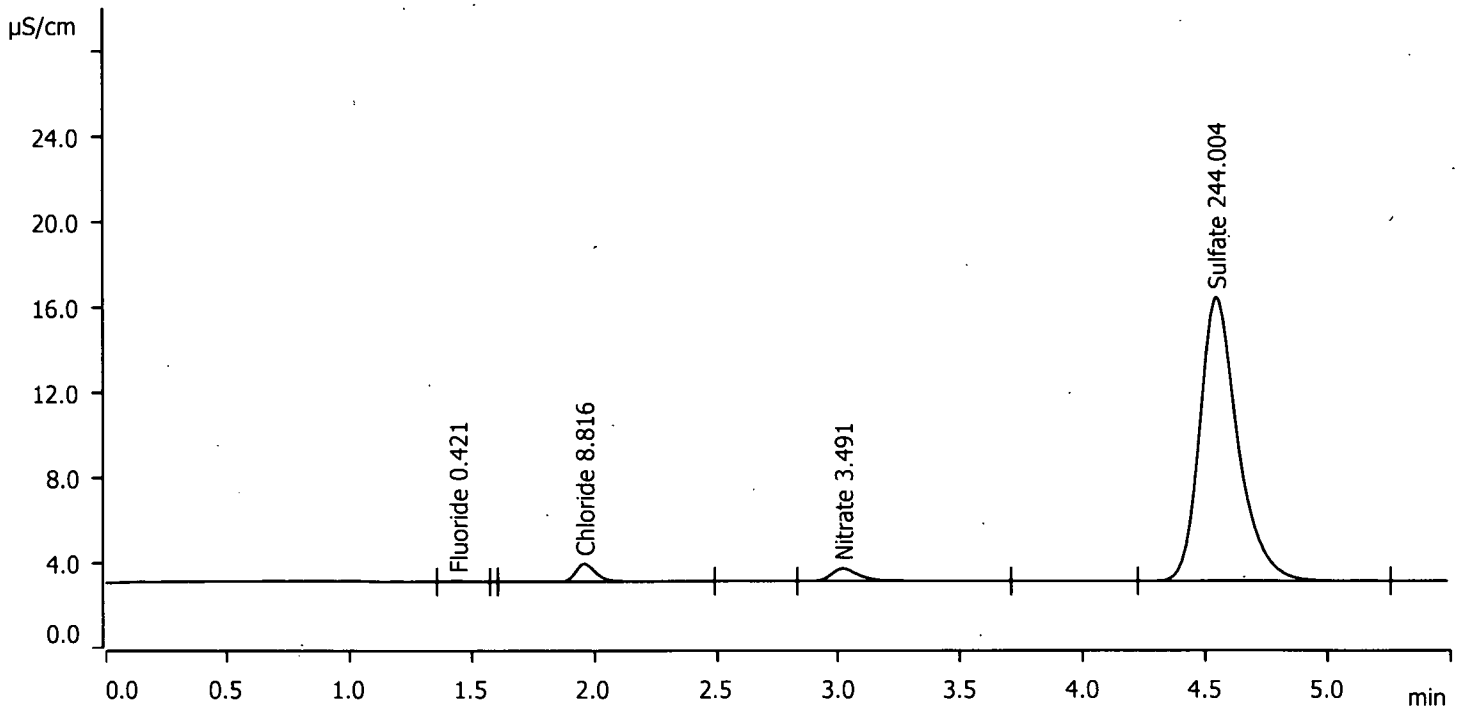
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.002	0.614	Fluoride	BB
2	1.96	0.611	113.637	Chloride	BB
3	3.02	0.010	1.246	Nitrate	BB
4	4.54	2.729	536.467	Sulfate	BB

Sample data

Ident	R2401141-005
Sample type	Sample
Determination start	2024-02-27 09:00:50 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77103
Sample Position	24
Comment 1	300.0 C
Comment 2	

Anions



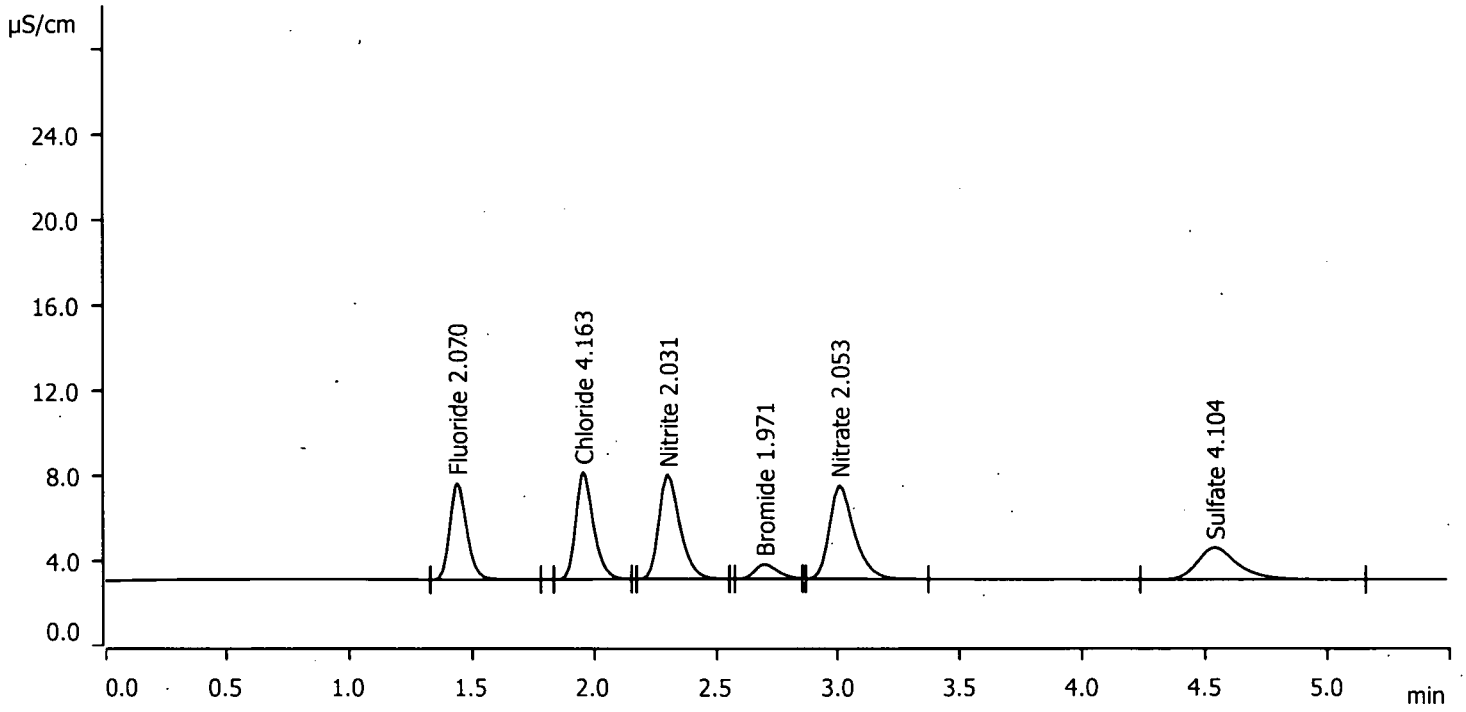
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.004	0.421	Fluoride	BB
2	1.96	0.079	8.816	Chloride	BB
3	3.02	0.076	3.491	Nitrate	BB
4	4.54	2.399	244.004	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-02-27 09:07:43 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77104
Sample Position	25
Comment 1	300.0/9056A
Comment 2	

Anions



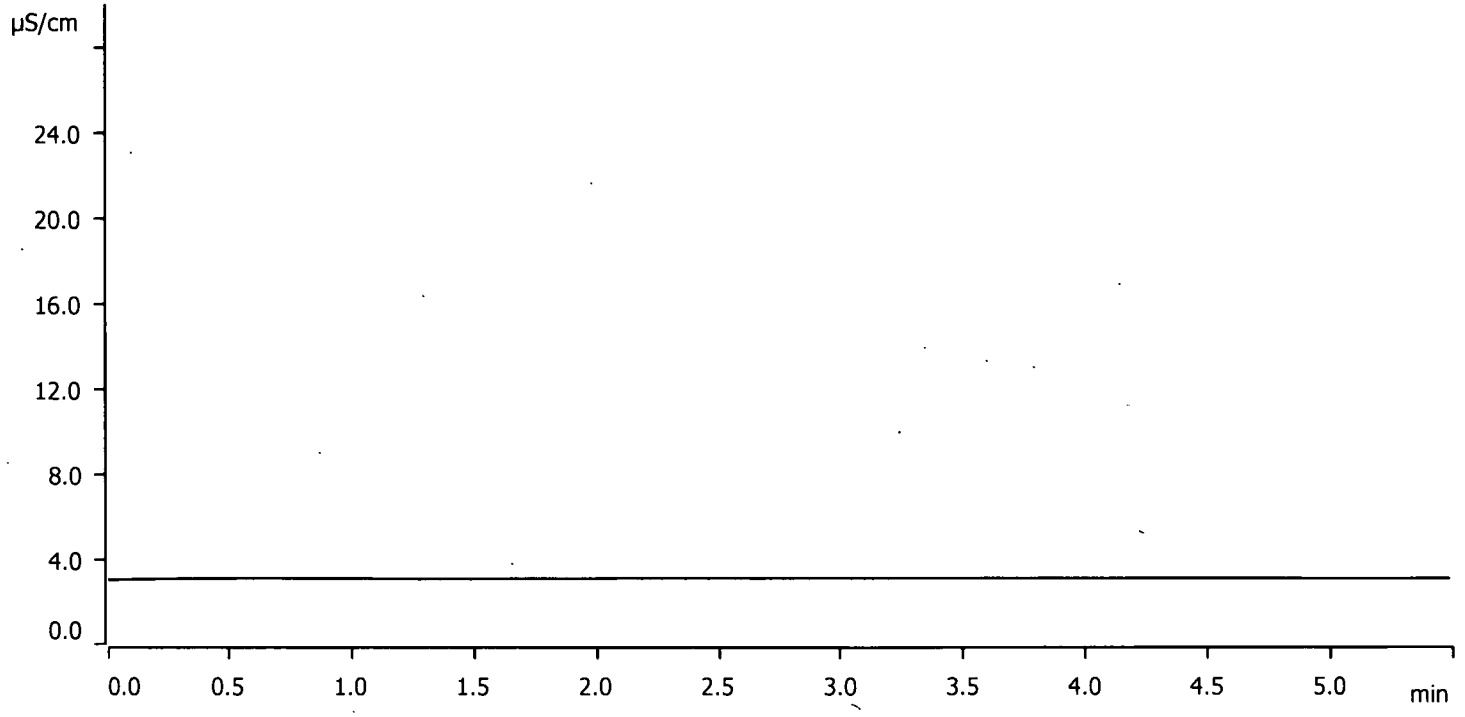
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.358	2.070	Fluoride	BB
2	1.96	0.427	4.163	Chloride	BB
3	2.31	0.490	2.031	Nitrite	BB
4	2.70	0.073	1.971	Bromide	BB
5	3.01	0.517	2.053	Nitrate	BB
6	4.54	0.286	4.104	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-02-27 09:14:36 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77105
Sample Position	26
Comment 1	300.0/9056A
Comment 2	

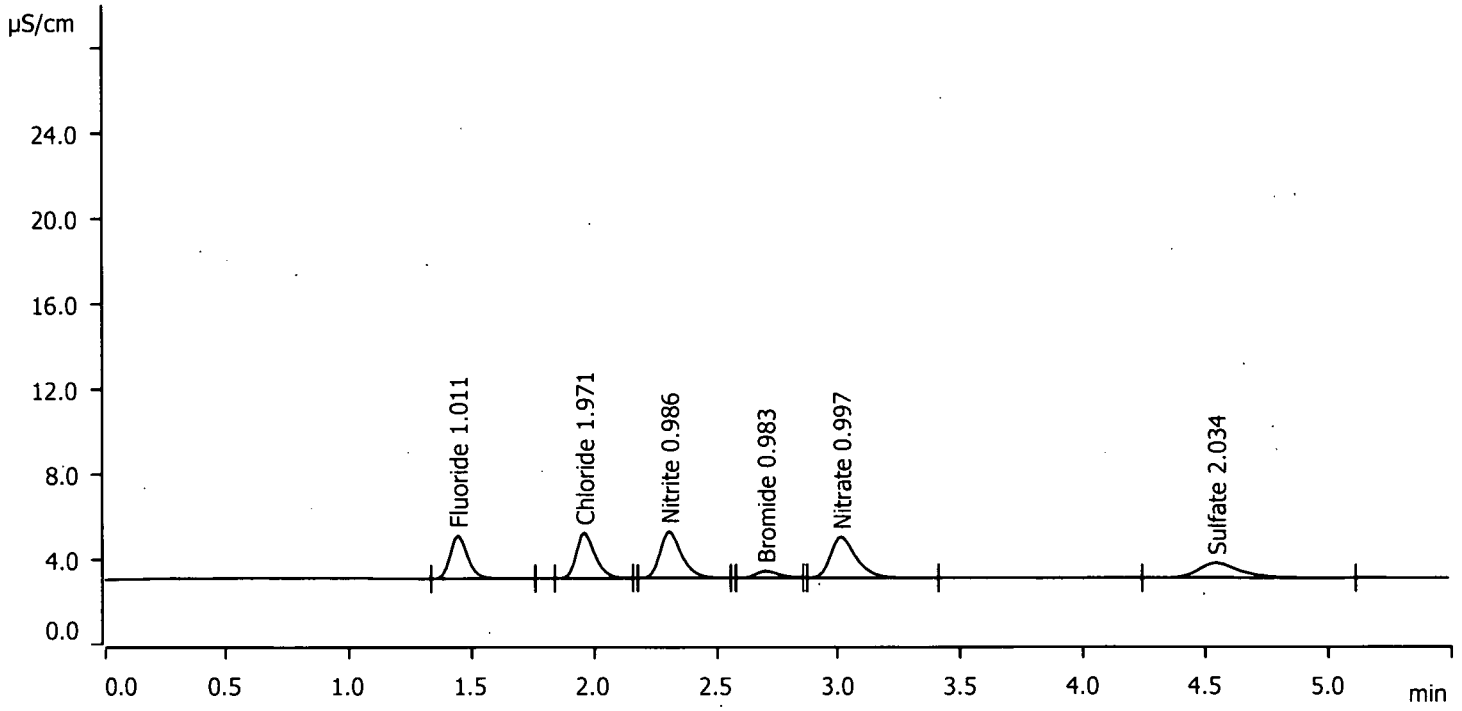
Anions



Sample data

Ident	LCS
Sample type	Check standard 2
Determination start	2024-02-27 09:21:26 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77106
Sample Position	27
Comment 1	300.0/9056A
Comment 2	

Anions



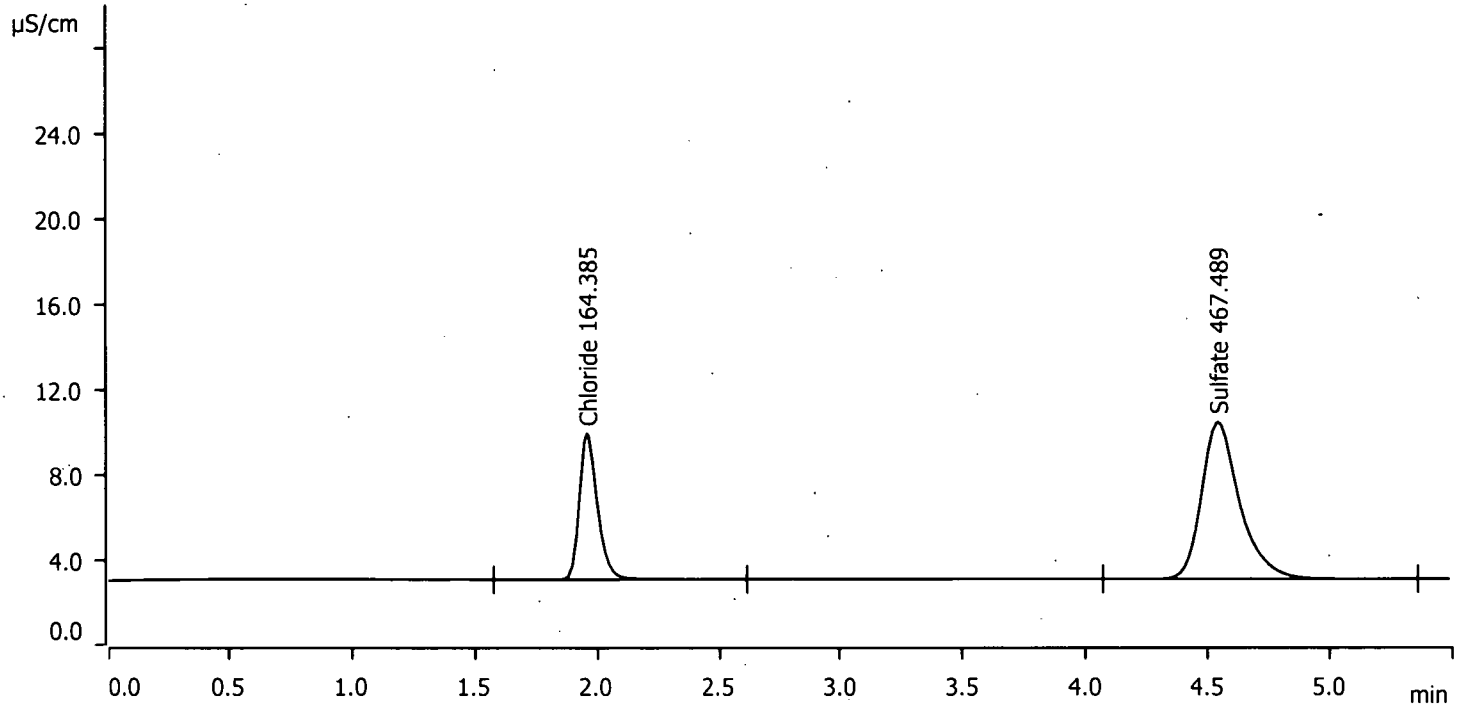
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.165	1.011	Fluoride	BB
2	1.96	0.187	1.971	Chloride	BB
3	2.31	0.224	0.986	Nitrite	BB
4	2.70	0.035	0.983	Bromide	BB
5	3.01	0.232	0.997	Nitrate	BB
6	4.54	0.136	2.034	Sulfate	BB

Sample data

Ident	R2401141-006
Sample type	Sample
Determination start	2024-02-27 09:28:20 UTC-5
Method	10-122723FAST
Dilution	30
Counter	77107
Sample Position	28
Comment 1	300.0 C
Comment 2	

Anions



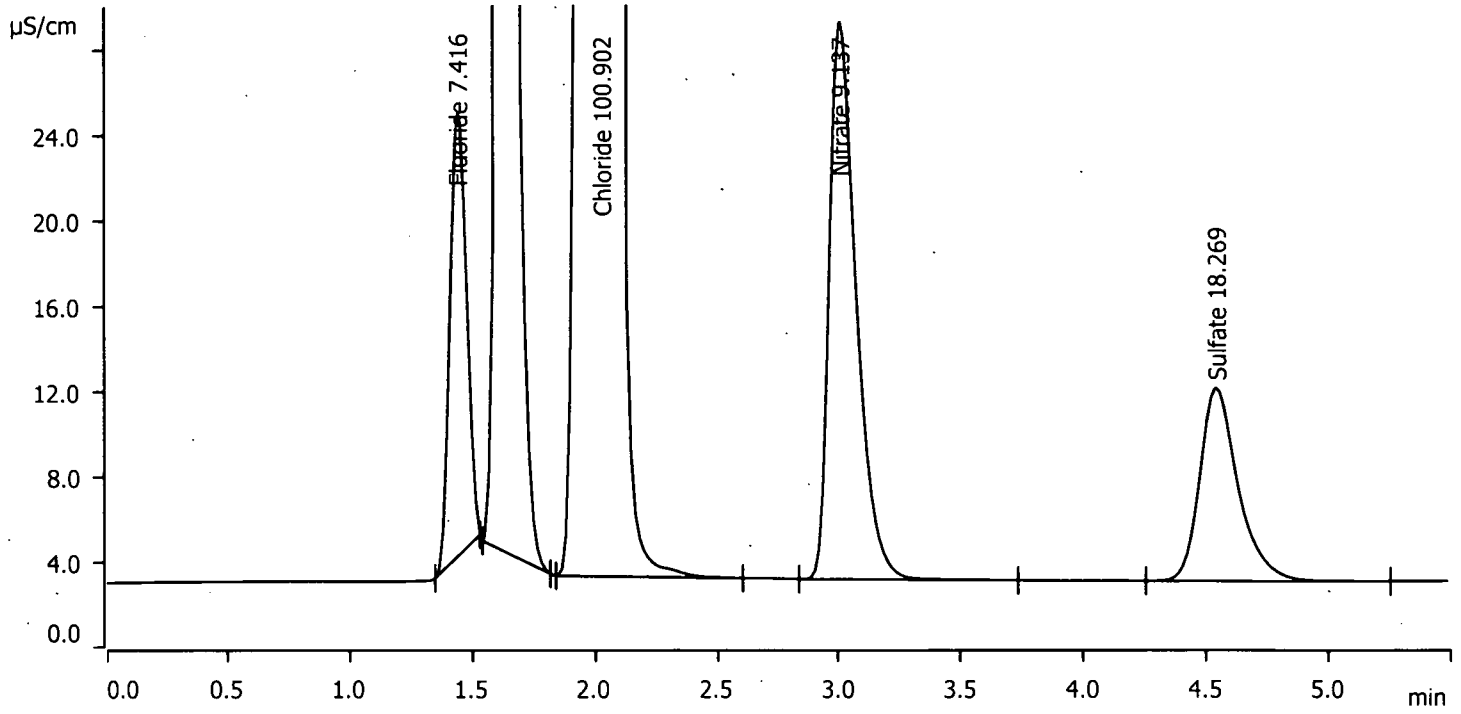
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.585	164.385	Chloride	BB
2	4.54	1.338	467.489	Sulfate	BB

Sample data

Ident	R2401387-001 DNR
Sample type	Sample
Determination start	2024-02-27 09:35:14 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77108
Sample Position	29
Comment 1	300.0 F
Comment 2	

Anions



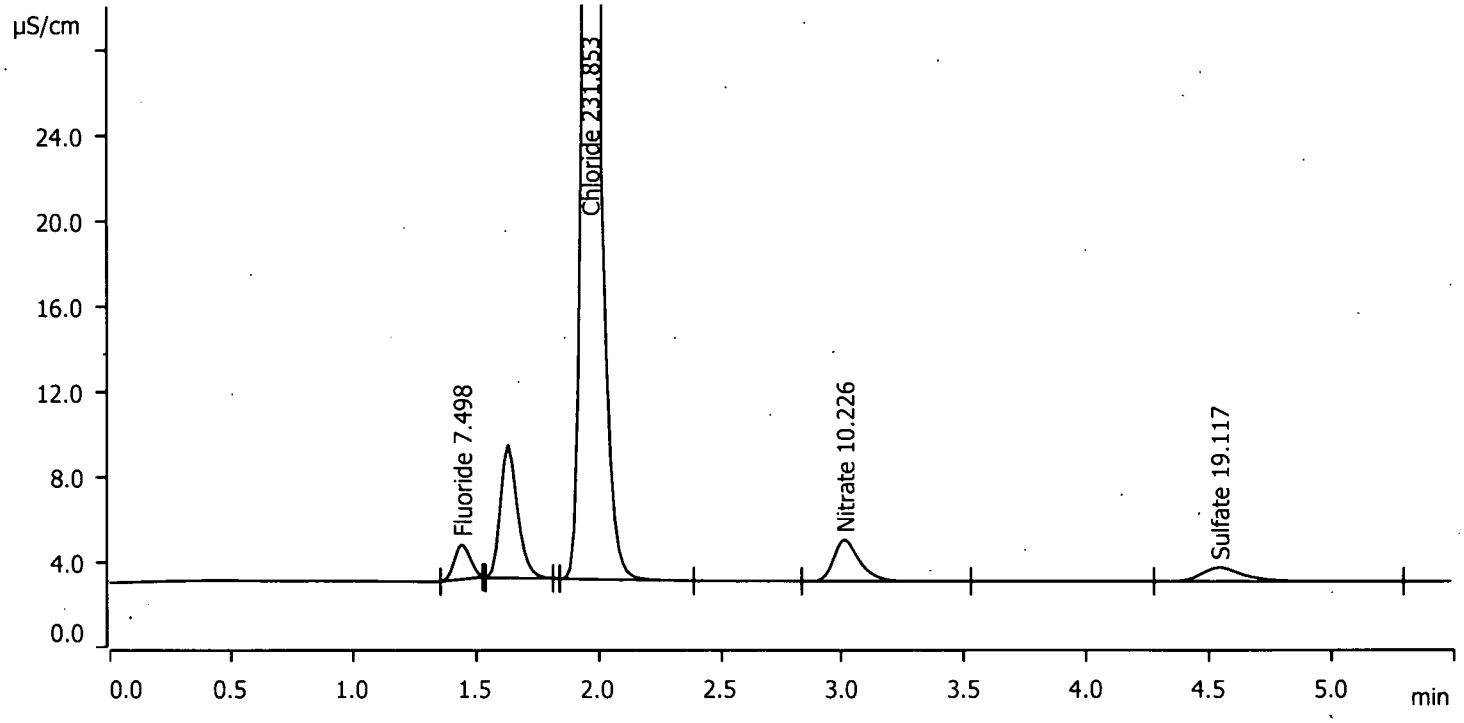
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	1.613	7.416	Fluoride	BB
3	2.03	41.362	100.902	Chloride	BB
4	3.01	3.337	9.137	Nitrate	BB
5	4.54	1.638	18.269	Sulfate	BB

Sample data

Ident	R2401387-001
Sample type	Sample
Determination start	2024-02-27 09:42:07 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77109
Sample Position	30
Comment 1	300.0 F
Comment 2	

Anions



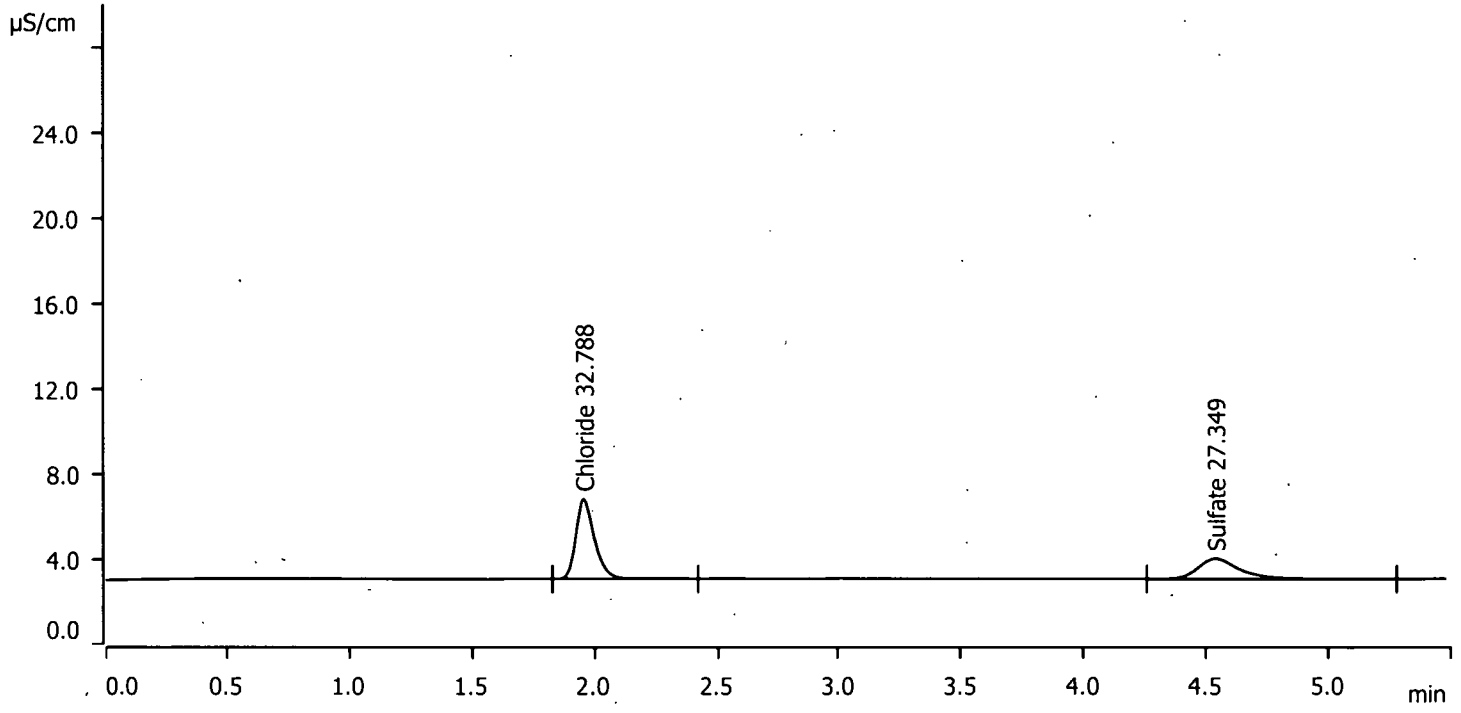
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.120	7.498	Fluoride	BB
3	1.97	3.787	231.853	Chloride	BB
4	3.01	0.239	10.226	Nitrate	BB
5	4.54	0.128	19.117	Sulfate	BB

Sample data

Ident	R2401352-001
Sample type	Sample
Determination start	2024-02-27 09:49:05 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77110
Sample Position	31
Comment 1	300.0 C
Comment 2	

Anions



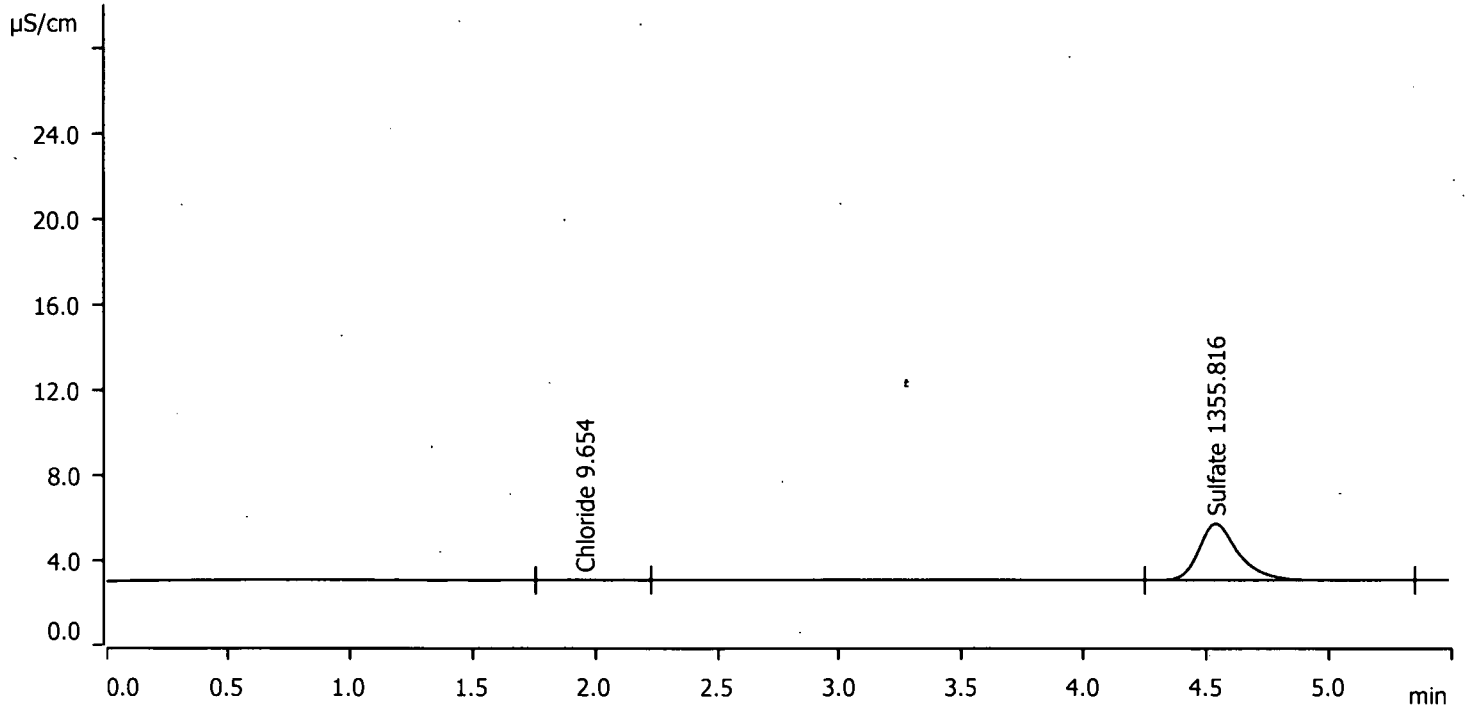
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.326	32.788	Chloride	BB
2	4.54	0.186	27.349	Sulfate	BB

Sample data

Ident	R2401504-001
Sample type	Sample
Determination start	2024-02-27 09:55:57 UTC-5
Method	10-122723FAST
Dilution	200
Counter	77111
Sample Position	32
Comment 1	300.0 S
Comment 2	

Anions



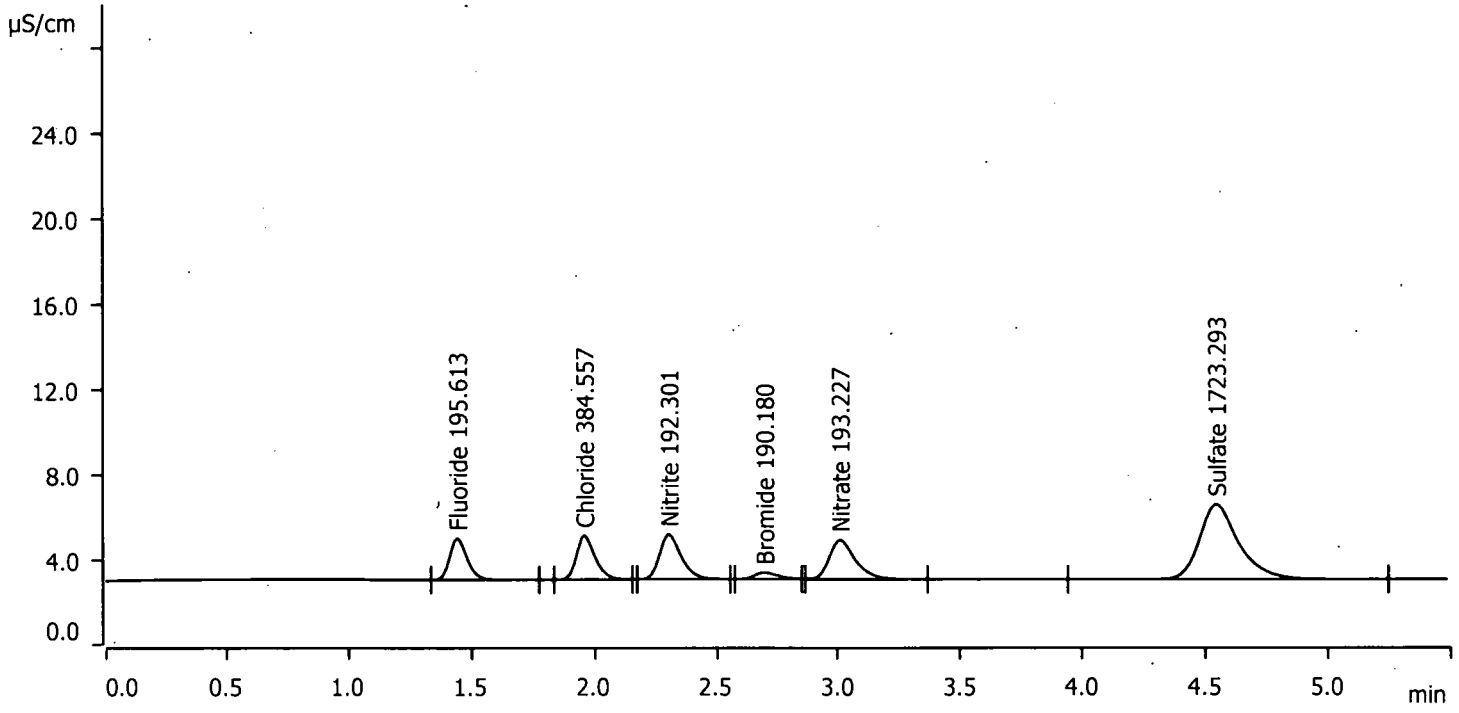
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.002	9.654	Chloride	BB
2	4.54	0.498	1355.816	Sulfate	BB

Sample data

Ident	R2401504-001 MS
Sample type	Sample
Determination start	2024-02-27 10:02:49 UTC-5
Method	10-122723FAST
Dilution	200
Counter	77112
Sample Position	33
Comment 1	300.0 S
Comment 2	

Anions



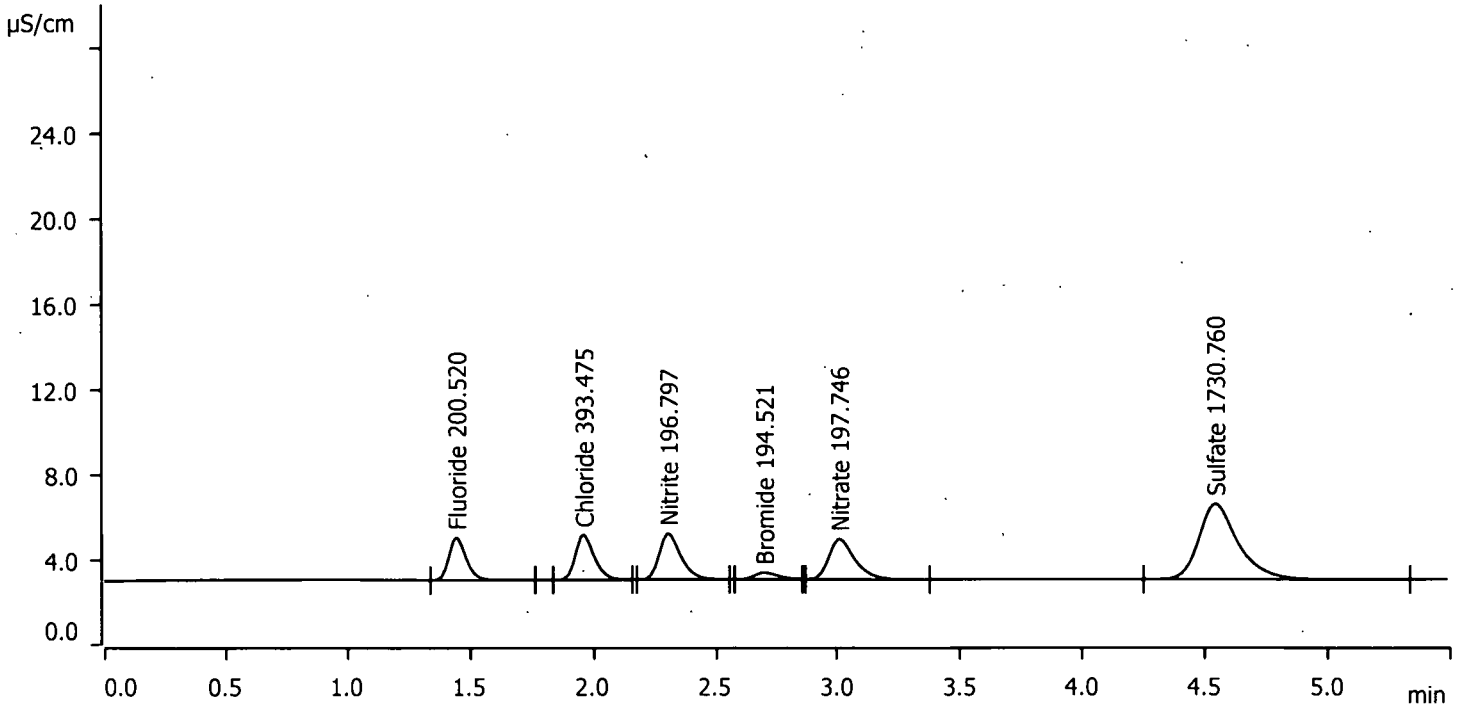
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.159	195.613	Fluoride	BB
2	1.96	0.182	384.557	Chloride	BB
3	2.31	0.218	192.301	Nitrite	BB
4	2.70	0.034	190.180	Bromide	BB
5	3.01	0.225	193.227	Nitrate	BB
6	4.54	0.656	1723.293	Sulfate	BB

Sample data

Ident	R2401504-001 MSD
Sample type	Sample
Determination start	2024-02-27 10:09:42 UTC-5
Method	10-122723FAST
Dilution	200
Counter	77113
Sample Position	34
Comment 1	300.0 S
Comment 2	

Anions



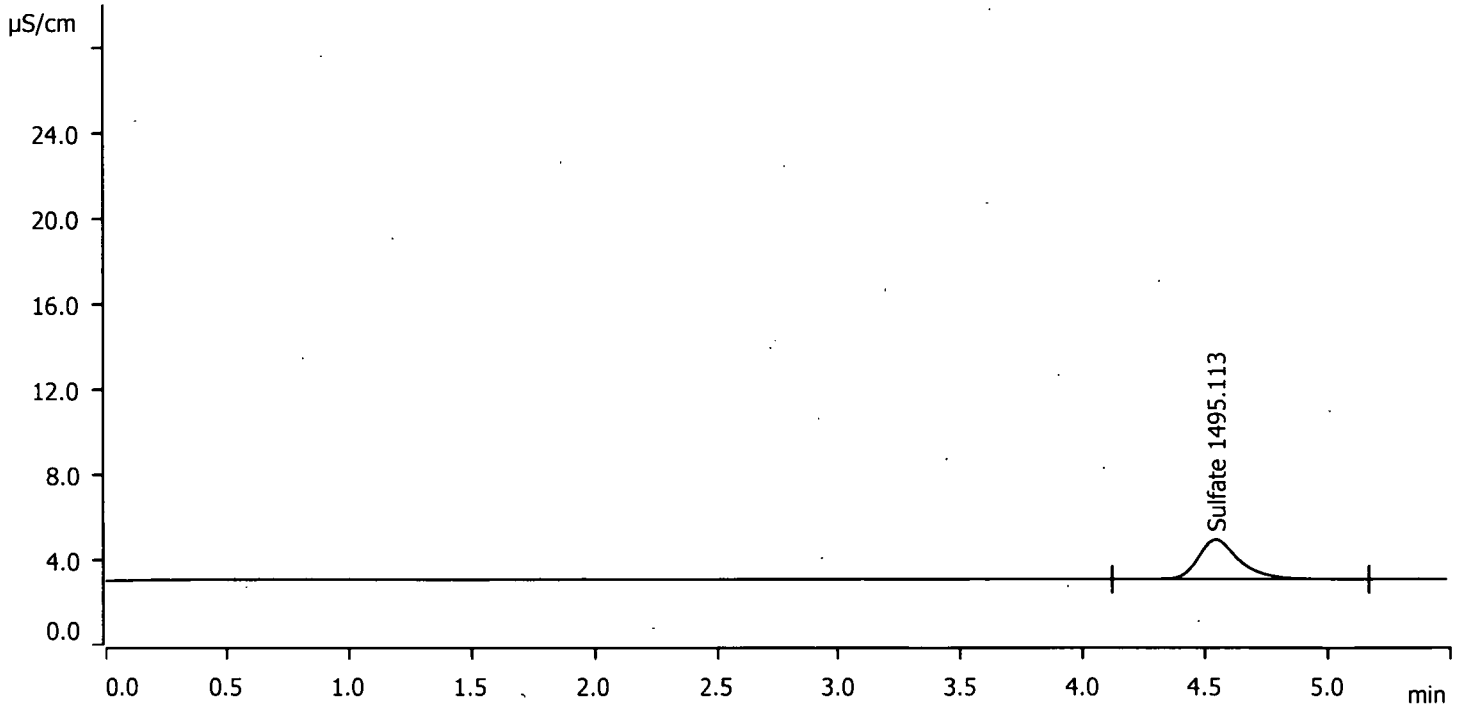
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.163	200.520	Fluoride	BB
2	1.96	0.186	393.475	Chloride	BB
3	2.31	0.223	196.797	Nitrite	BB
4	2.70	0.035	194.521	Bromide	BB
5	3.01	0.230	197.746	Nitrate	BB
6	4.54	0.659	1730.760	Sulfate	BB

Sample data

Ident	R2401504-002
Sample type	Sample
Determination start	2024-02-27 10:16:35 UTC-5
Method	10-122723FAST
Dilution	300
Counter	77114
Sample Position	35
Comment 1	300.0 S
Comment 2	

Anions



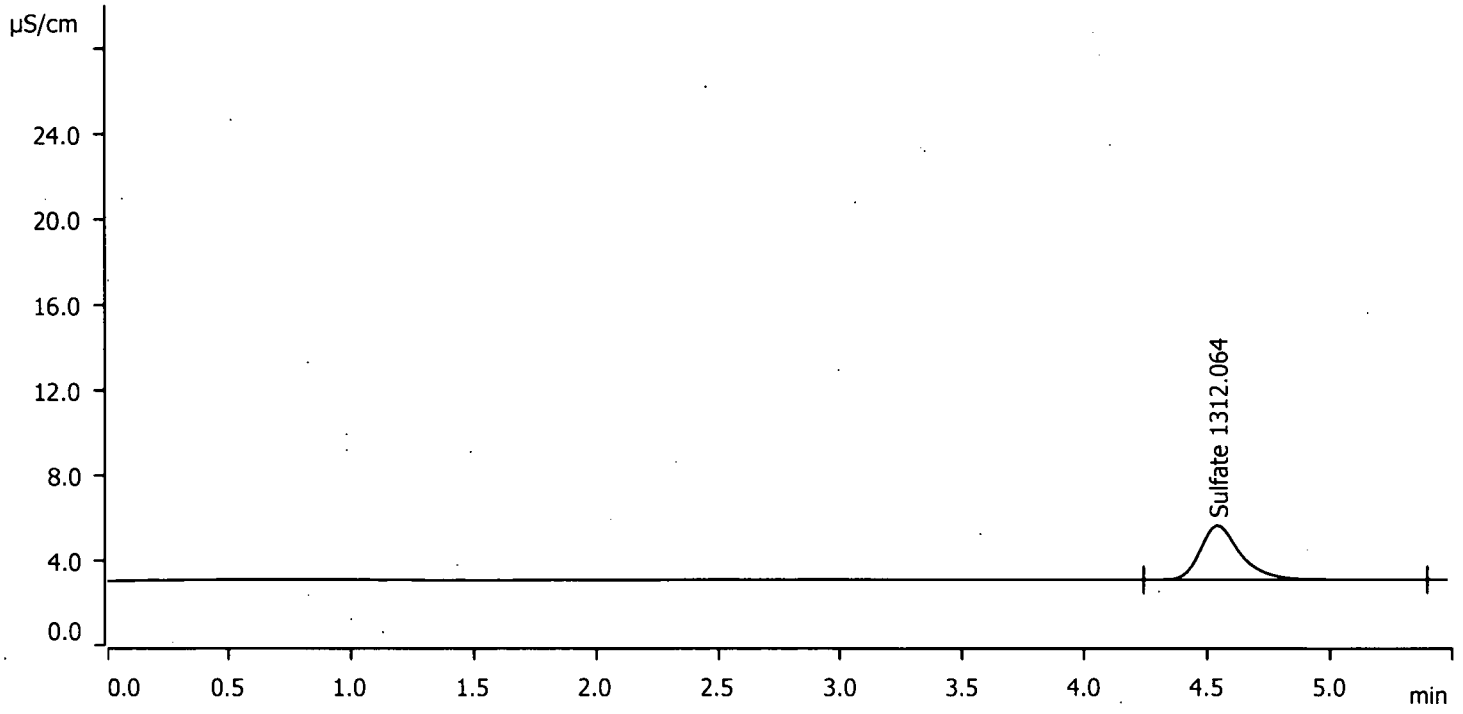
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	4.54	0.354	1495.113	Sulfate	BB

Sample data

Ident	R2401504-003
Sample type	Sample
Determination start	2024-02-27 10:23:26 UTC-5
Method	10-122723FAST
Dilution	200
Counter	77115
Sample Position	36
Comment 1	300.0 S
Comment 2	

Anions



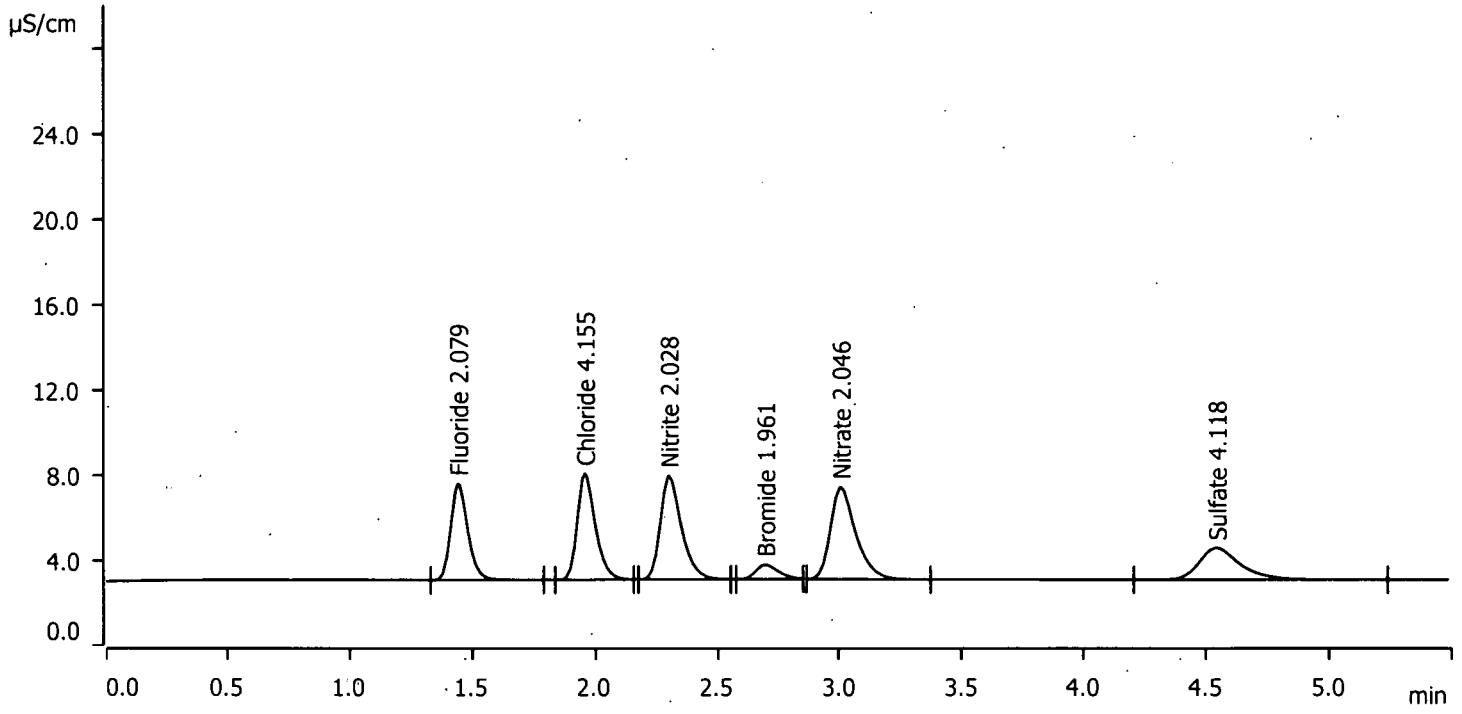
Anions

Peak number	Retention time	Area	Concentration	Component name	Type
	min	(µS/cm) x min	ppm		
1	4.54	0.480	1312.064	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-02-27 10:30:17 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77116
Sample Position	37
Comment 1	300.0/9056A
Comment 2	

Anions



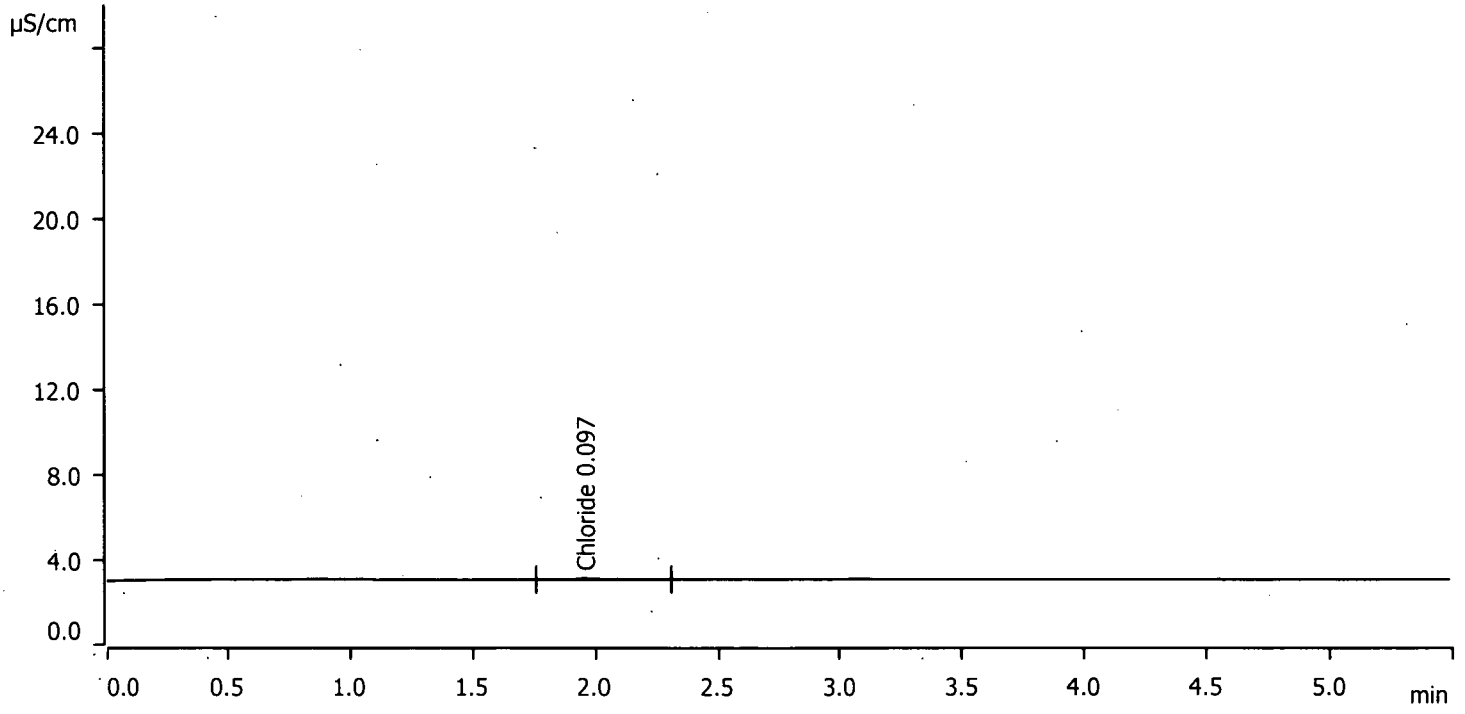
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.360	2.079	Fluoride	BB
2	1.96	0.426	4.155	Chloride	BB
3	2.31	0.489	2.028	Nitrite	BB
4	2.70	0.073	1.961	Bromide	BB
5	3.01	0.514	2.046	Nitrate	BB
6	4.54	0.287	4.118	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-02-27 10:37:10 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77117
Sample Position	38
Comment 1	300.0/9056A
Comment 2	

Anions



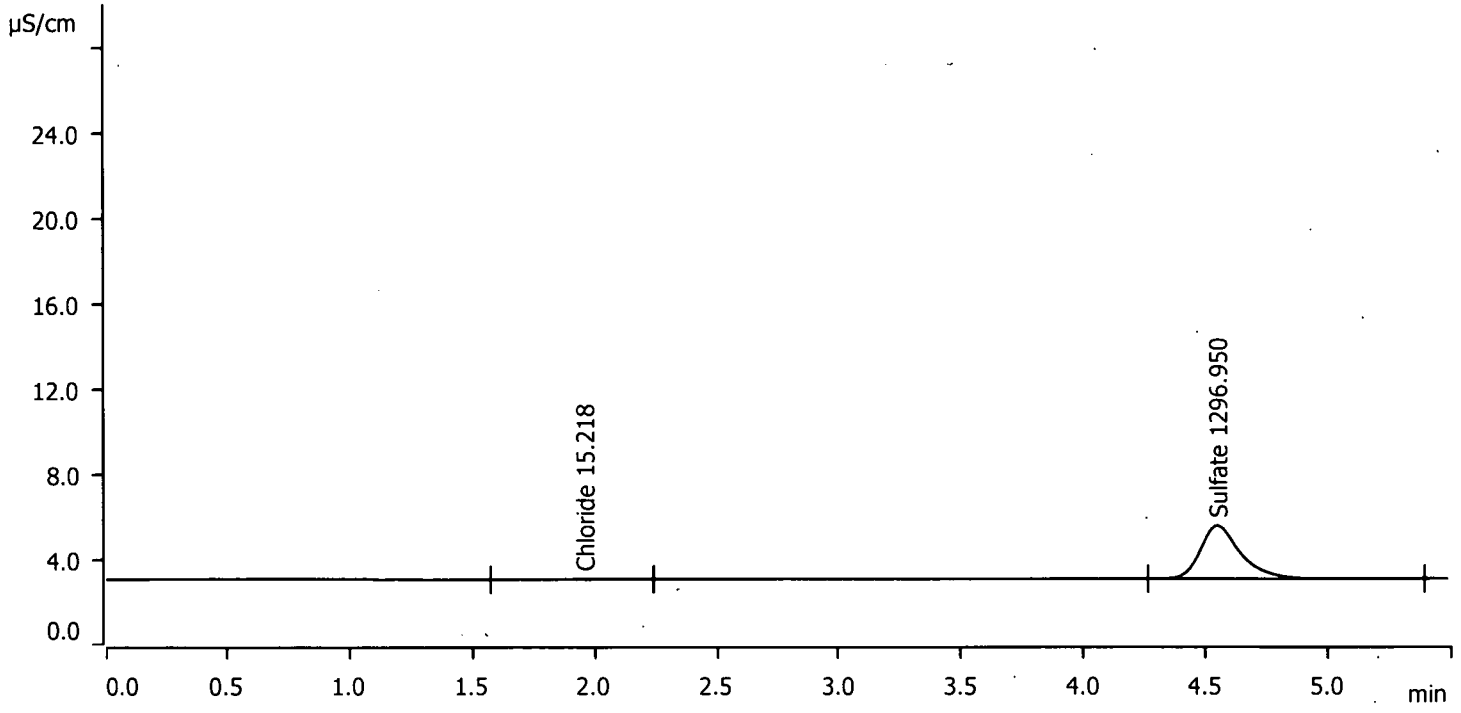
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.006	0.097	Chloride	BB

Sample data

Ident	R2401504-004
Sample type	Sample
Determination start	2024-02-27 12:29:45 UTC-5
Method	10-122723FAST
Dilution	200
Counter	77118
Sample Position	39
Comment 1	300.0 S
Comment 2	

Anions



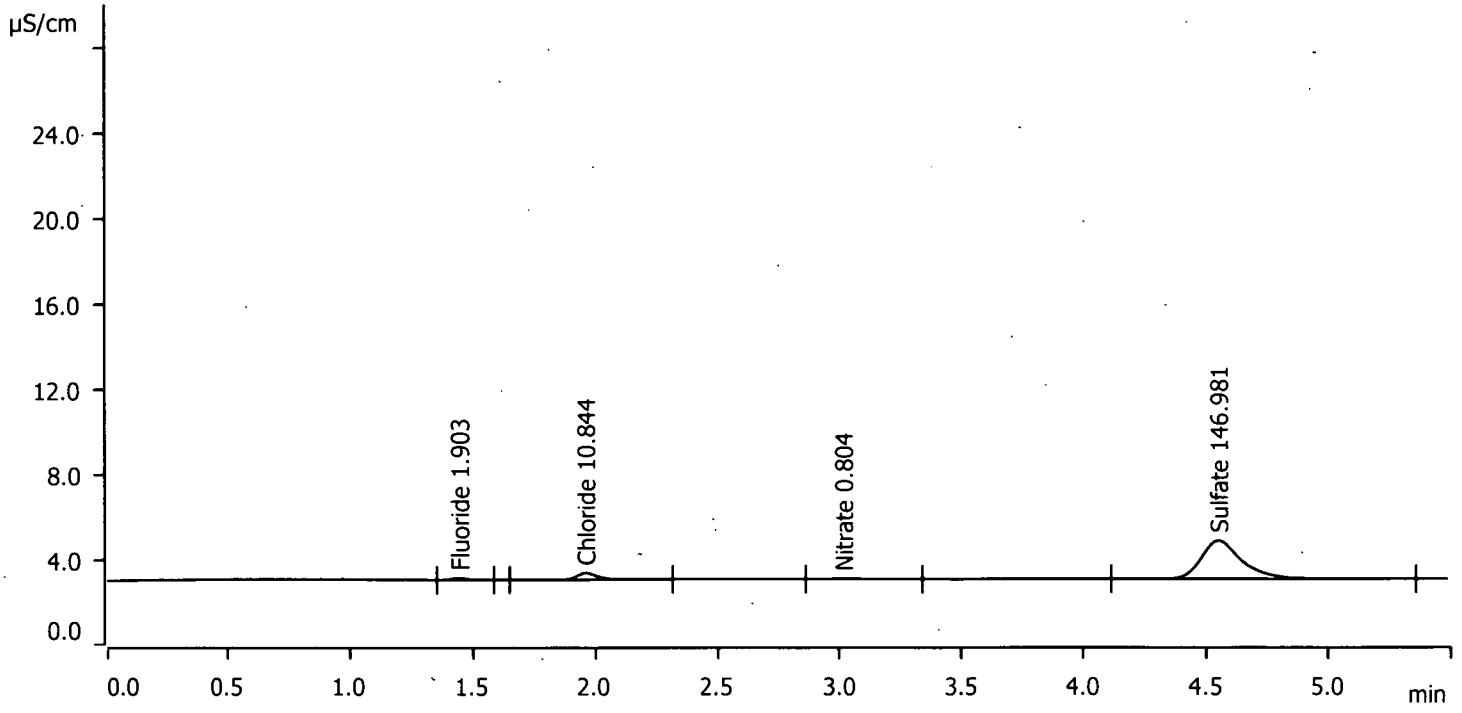
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.004	15.218	Chloride	BB
2	4.55	0.474	1296.950	Sulfate	BB

Sample data

Ident	R2401504-006
Sample type	Sample
Determination start	2024-02-27 12:36:41 UTC-5
Method	10-122723FAST
Dilution	30
Counter	77119
Sample Position	40
Comment 1	300.0 S
Comment 2	

Anions



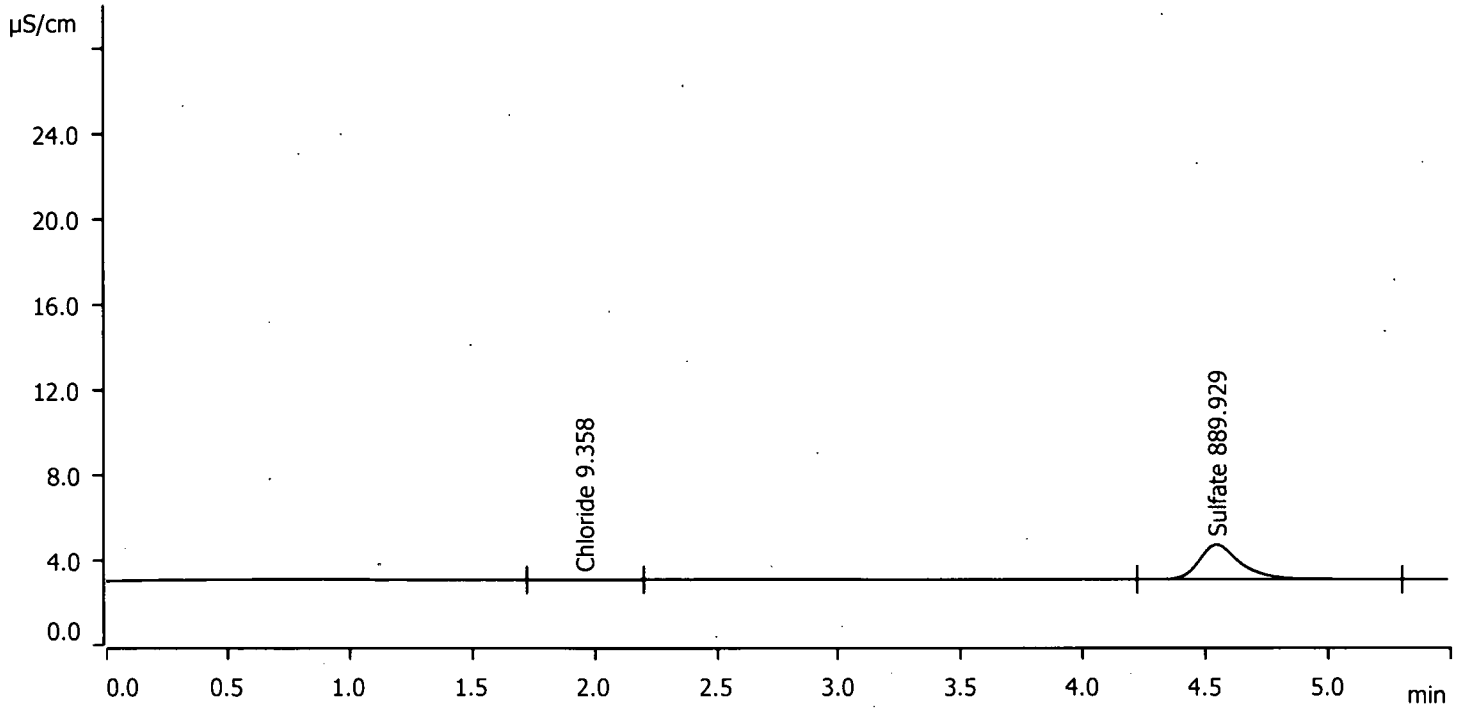
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.007	1.903	Fluoride	BB
2	1.96	0.030	10.844	Chloride	BB
3	3.01	0.003	0.804	Nitrate	BB
4	4.55	0.347	146.981	Sulfate	BB

Sample data

Ident	R2401504-007
Sample type	Sample
Determination start	2024-02-27 12:43:33 UTC-5
Method	10-122723FAST
Dilution	200
Counter	77120
Sample Position	41
Comment 1	300.0 S
Comment 2	

Anions



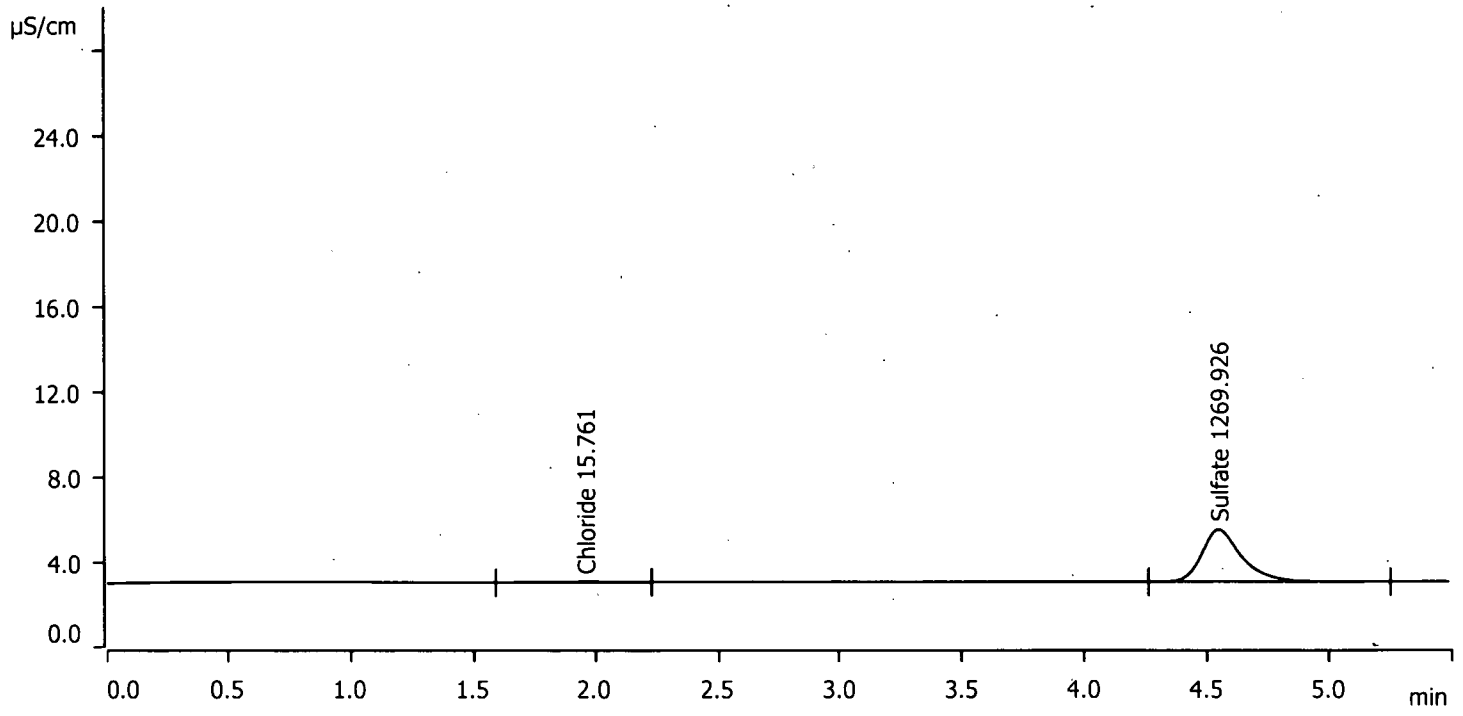
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.001	9.358	Chloride	BB
2	4.54	0.313	889.929	Sulfate	BB

Sample data

Ident	R2401504-008
Sample type	Sample
Determination start	2024-02-27 12:50:25 UTC-5
Method	10-122723FAST
Dilution	200
Counter	77121
Sample Position	42
Comment 1	300.0 S
Comment 2	

Anions



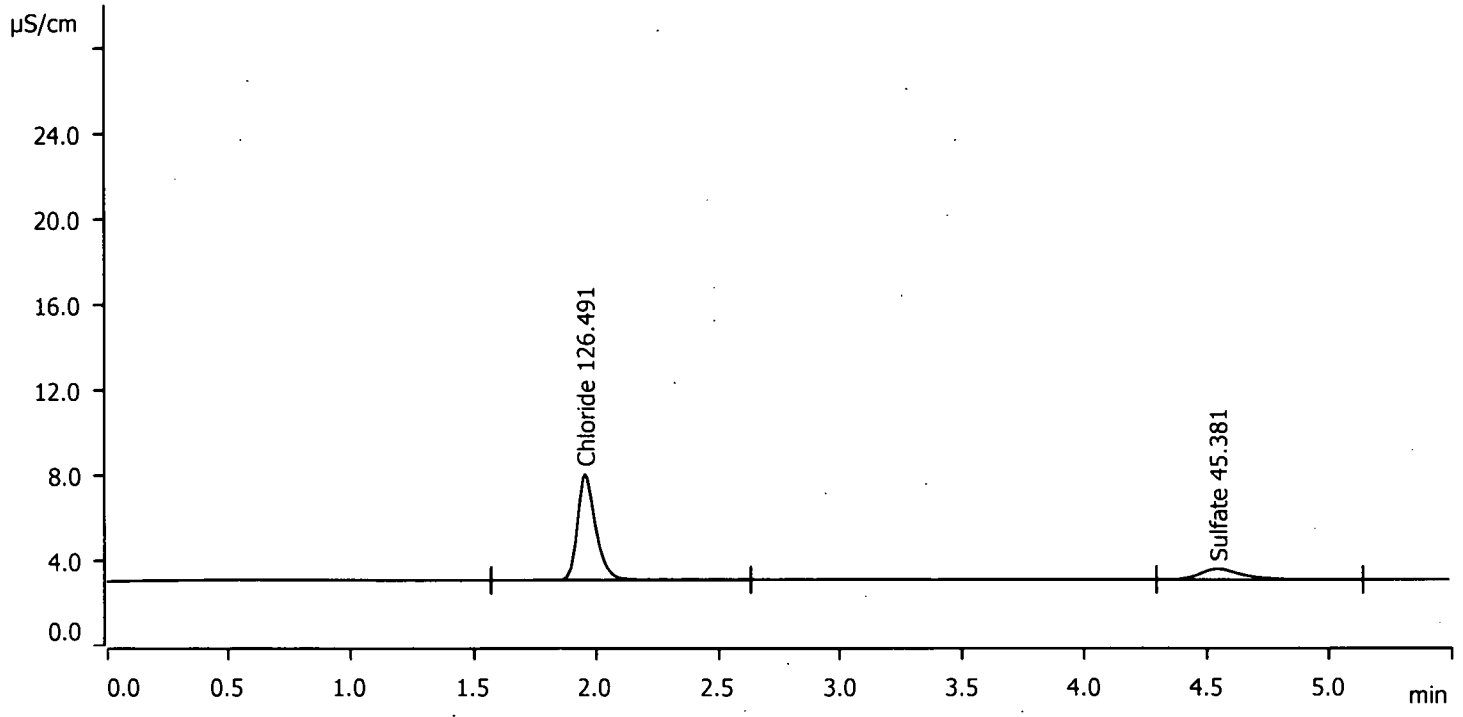
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.004	15.761	Chloride	BB
2	4.55	0.463	1269.926	Sulfate	BB

Sample data

Ident	R2401504-009
Sample type	Sample
Determination start	2024-02-27 12:57:17 UTC-5
Method	10-122723FAST
Dilution	30
Counter	77122
Sample Position	43
Comment 1	300.0 C
Comment 2	

Anions



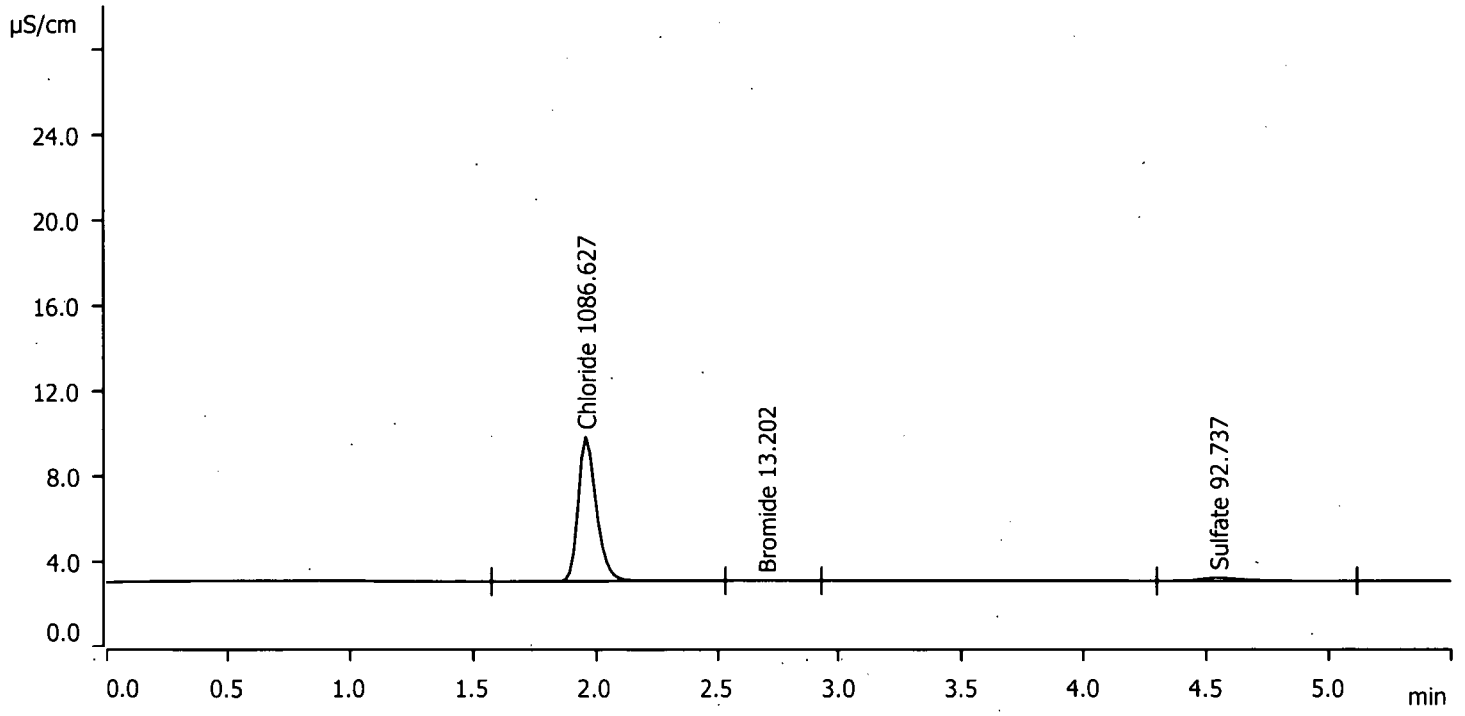
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.433	126.491	Chloride	BB
2	4.54	0.100	45.381	Sulfate	BB

Sample data

Ident	R2401504-012
Sample type	Sample
Determination start	2024-02-27 13:04:08 UTC-5
Method	10-122723FAST
Dilution	200
Counter	77123
Sample Position	44
Comment 1	300.0 C
Comment 2	

Anions



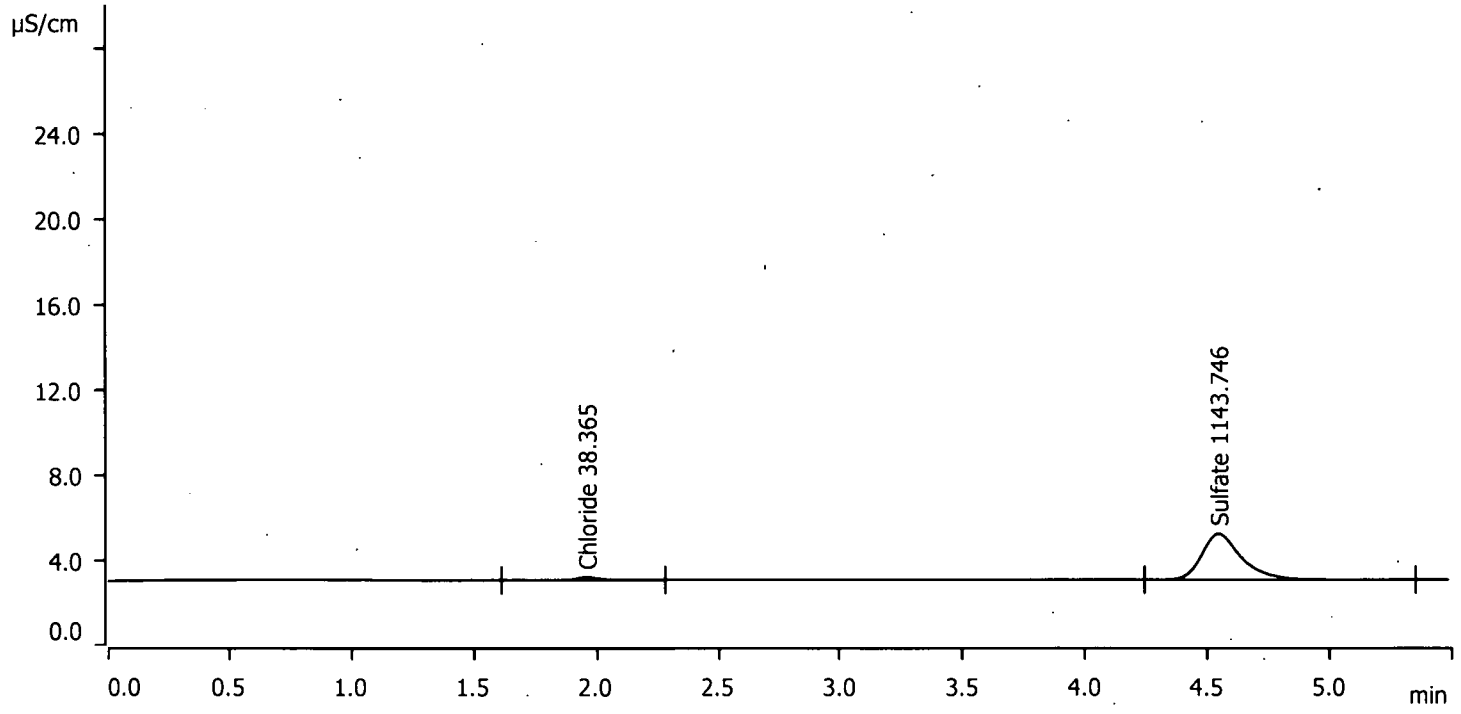
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.95	0.579	1086.627	Chloride	BB
2	2.69	0.002	13.202	Bromide	BB
3	4.53	0.030	92.737	Sulfate	BB

Sample data

Ident	R2401504-013
Sample type	Sample
Determination start	2024-02-27 13:11:00 UTC-5
Method	10-122723FAST
Dilution	200
Counter	77124
Sample Position	45
Comment 1	300.0 S
Comment 2	

Anions



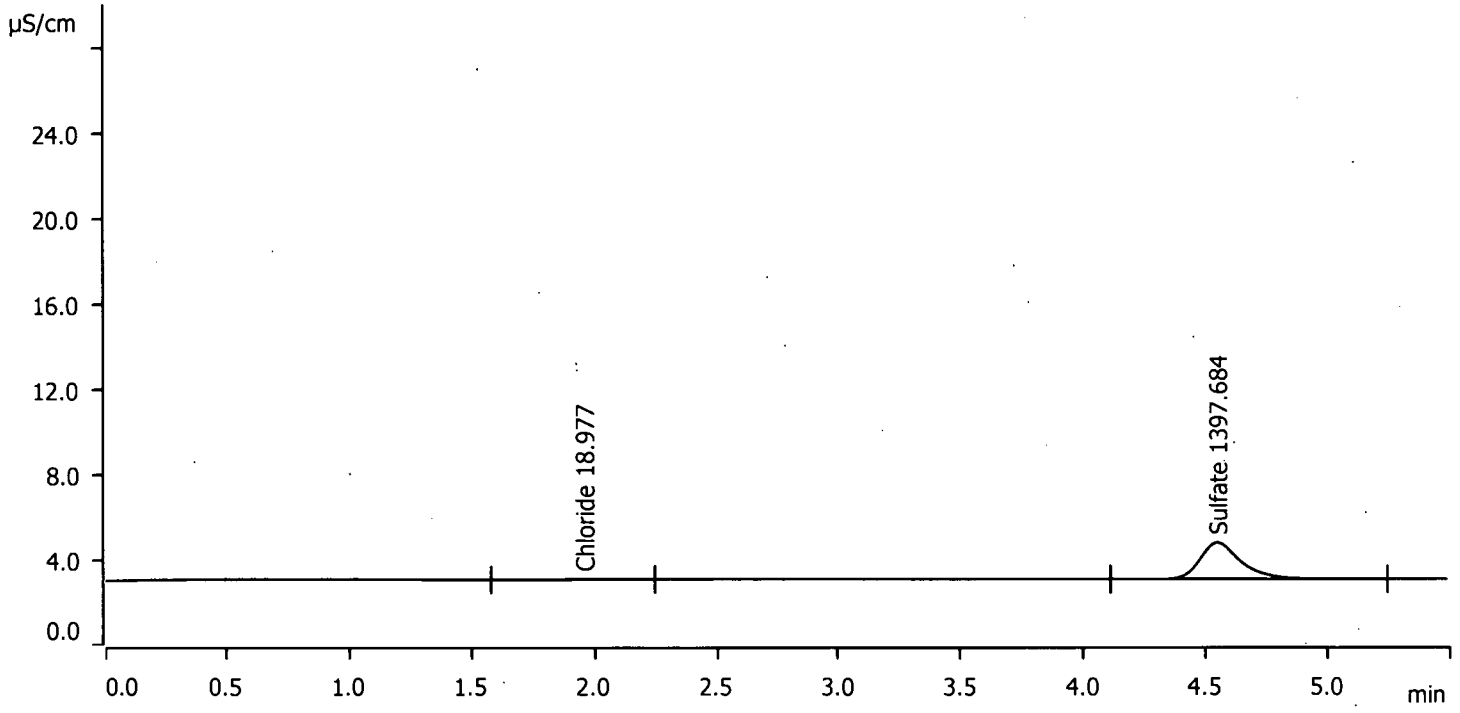
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.015	38.365	Chloride	BB
2	4.54	0.412	1143.746	Sulfate	BB

Sample data

Ident	R2401504-014
Sample type	Sample
Determination start	2024-02-27 13:17:56 UTC-5
Method	10-122723FAST
Dilution	300
Counter	77125
Sample Position	46
Comment 1	300.0 S
Comment 2	

Anions



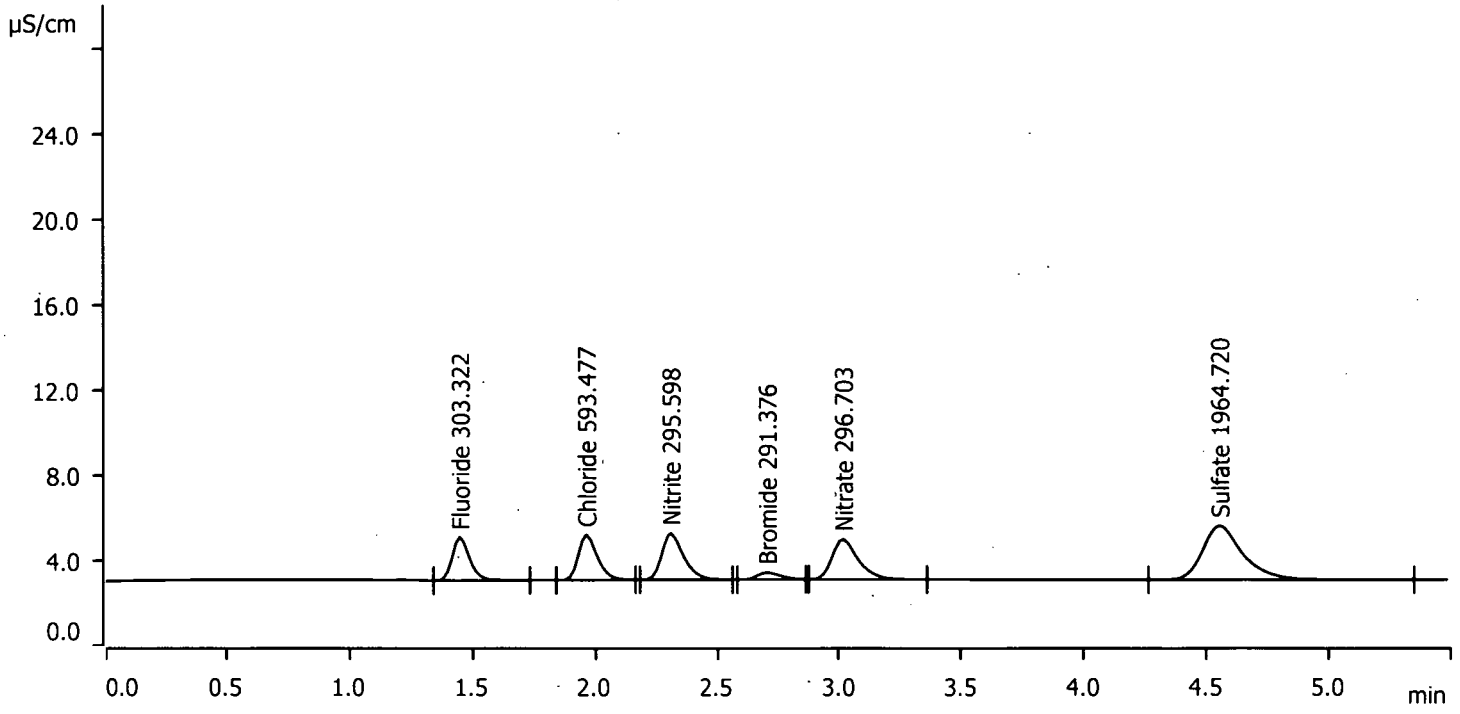
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.97	0.003	18.977	Chloride	BB
2	4.55	0.329	1397.684	Sulfate	BB

Sample data

Ident	R2401504-014 MS
Sample type	Sample
Determination start	2024-02-27 13:24:48 UTC-5
Method	10-122723FAST
Dilution	300
Counter	77126
Sample Position	47
Comment 1	300.0 S
Comment 2	

Anions



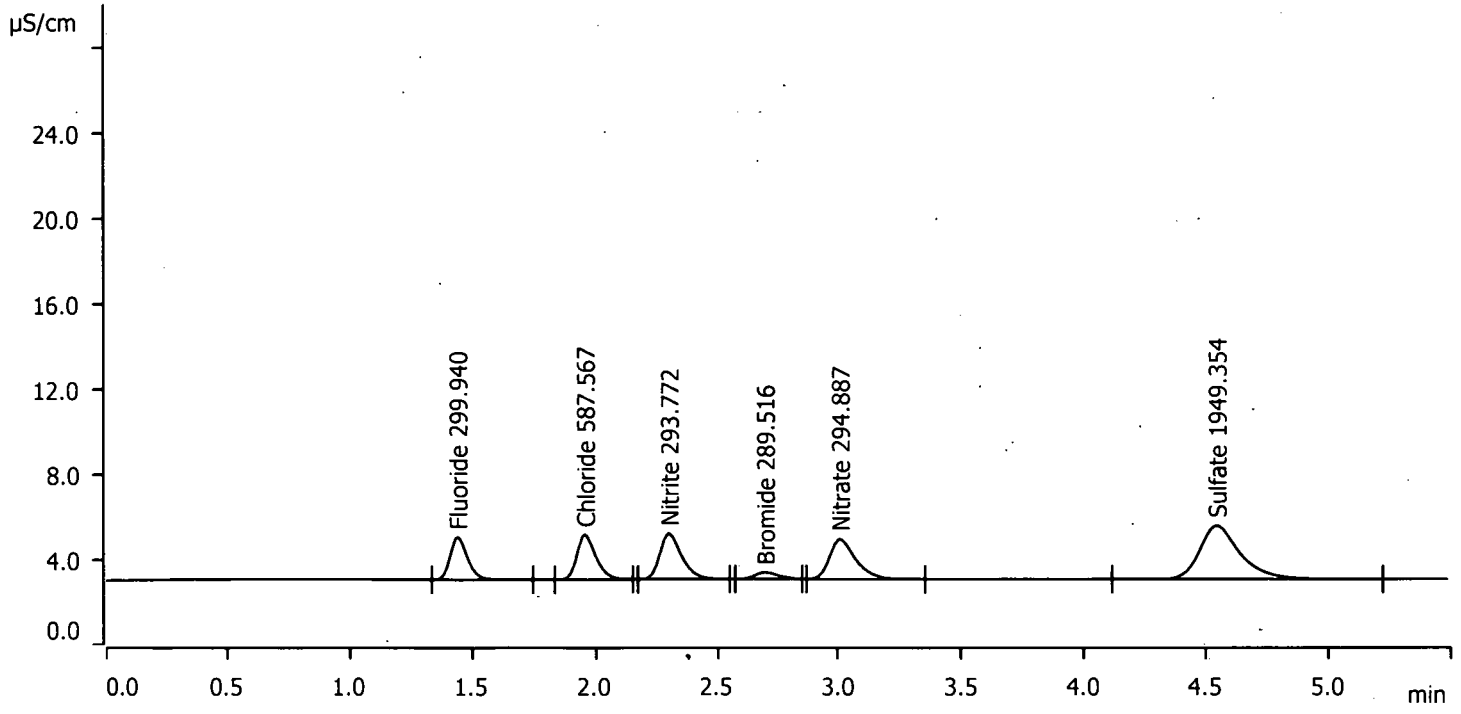
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.165	303.322	Fluoride	BB
2	1.97	0.188	593.477	Chloride	BB
3	2.31	0.223	295.598	Nitrite	BB
4	2.71	0.035	291.376	Bromide	BB
5	3.02	0.230	296.703	Nitrate	BB
6	4.55	0.479	1964.720	Sulfate	BB

Sample data

Ident	R2401504-014 MSD
Sample type	Sample
Determination start	2024-02-27 13:31:41 UTC-5
Method	10-122723FAST
Dilution	300
Counter	77127
Sample Position	48
Comment 1	300.0 S
Comment 2	

Anions



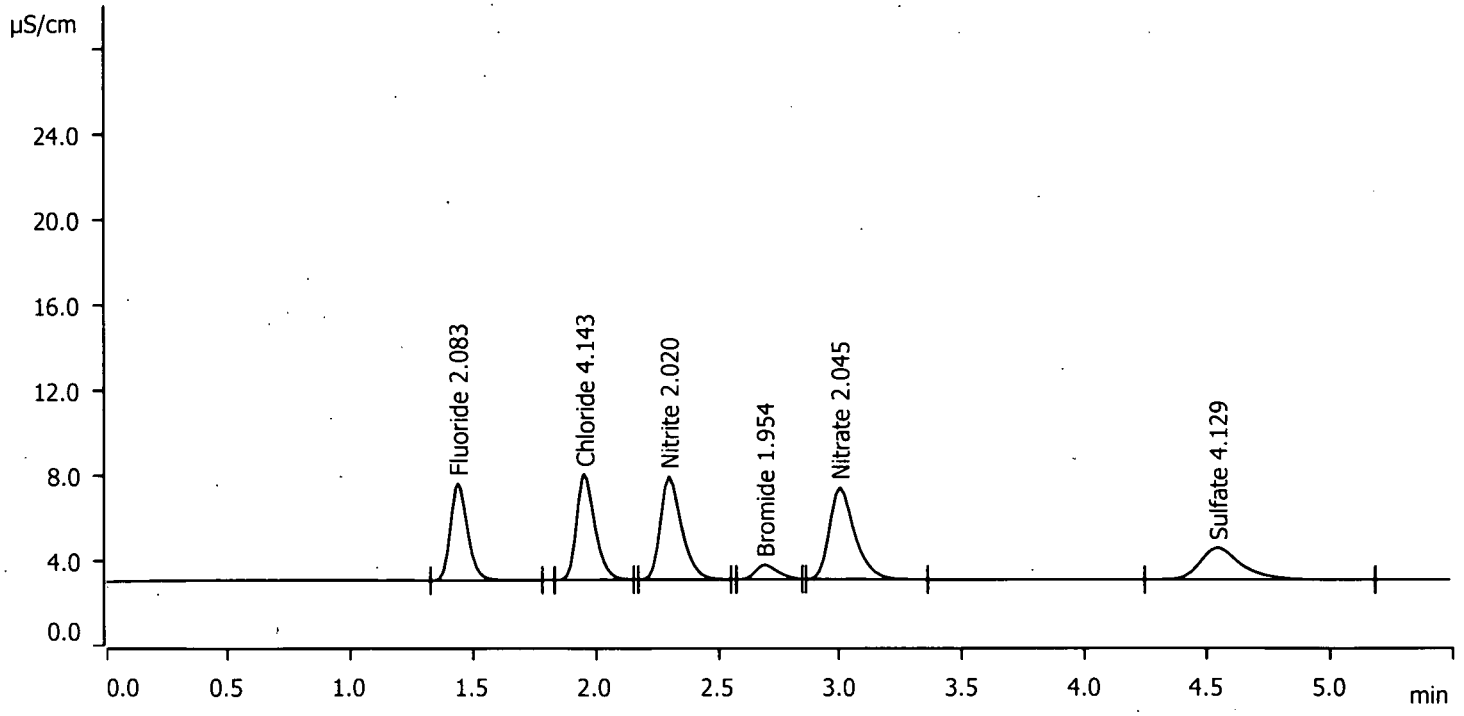
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.163	299.940	Fluoride	BB
2	1.96	0.186	587.567	Chloride	BB
3	2.30	0.222	293.772	Nitrite	BB
4	2.70	0.035	289.516	Bromide	BB
5	3.01	0.229	294.887	Nitrate	BB
6	4.54	0.475	1949.354	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-02-27 13:38:34 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77128
Sample Position	49
Comment 1	300.0/9056A
Comment 2	

Anions



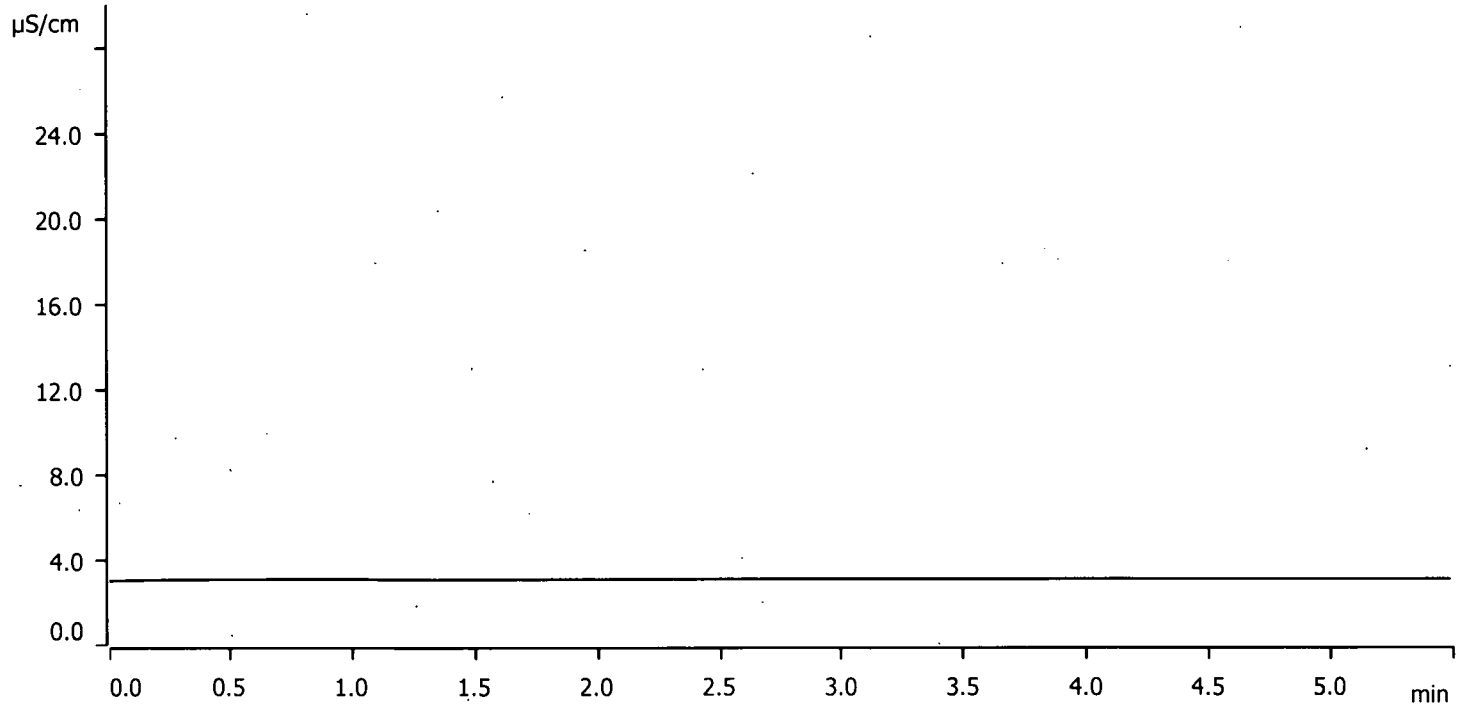
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.361	2.083	Fluoride	BB
2	1.96	0.424	4.143	Chloride	BB
3	2.30	0.487	2.020	Nitrite	BB
4	2.69	0.072	1.954	Bromide	BB
5	3.00	0.514	2.045	Nitrate	BB
6	4.54	0.288	4.129	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-02-27 13:45:32 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77129
Sample Position	50
Comment 1	300.0/9056A
Comment 2	

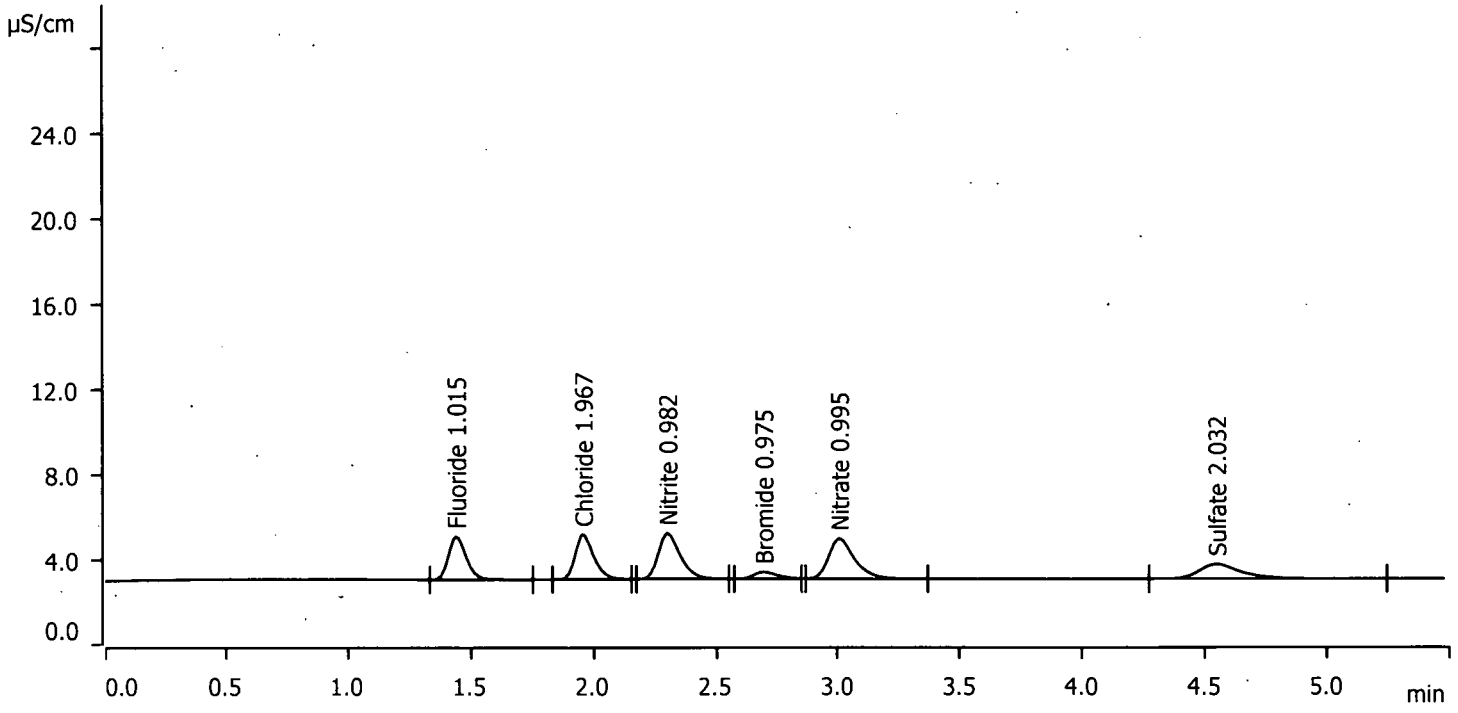
Anions



Sample data

Ident	LCS
Sample type	Check standard 2
Determination start	2024-02-27 13:52:22 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77130
Sample Position	51
Comment 1	300.0/9056A
Comment 2	

Anions



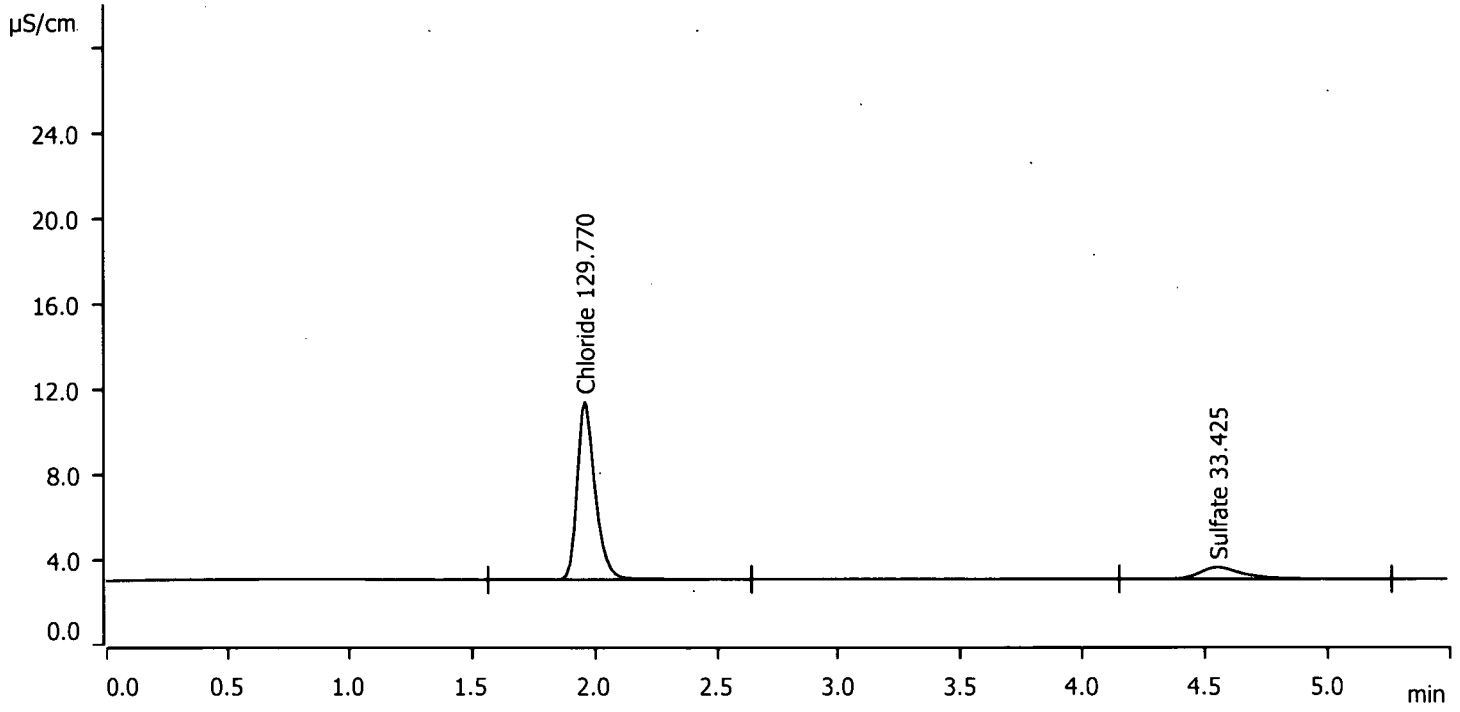
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.165	1.015	Fluoride	BB
2	1.96	0.186	1.967	Chloride	BB
3	2.30	0.222	0.982	Nitrite	BB
4	2.70	0.035	0.975	Bromide	BB
5	3.01	0.232	0.995	Nitrate	BB
6	4.55	0.136	2.032	Sulfate	BB

Sample data

Ident	R2401280-002
Sample type	Sample
Determination start	2024-02-27 13:59:16 UTC-5
Method	10-122723FAST
Dilution	20
Counter	77131
Sample Position	52
Comment 1	300.0 ~~G~~ S KW 2/28/24
Comment 2	

Anions



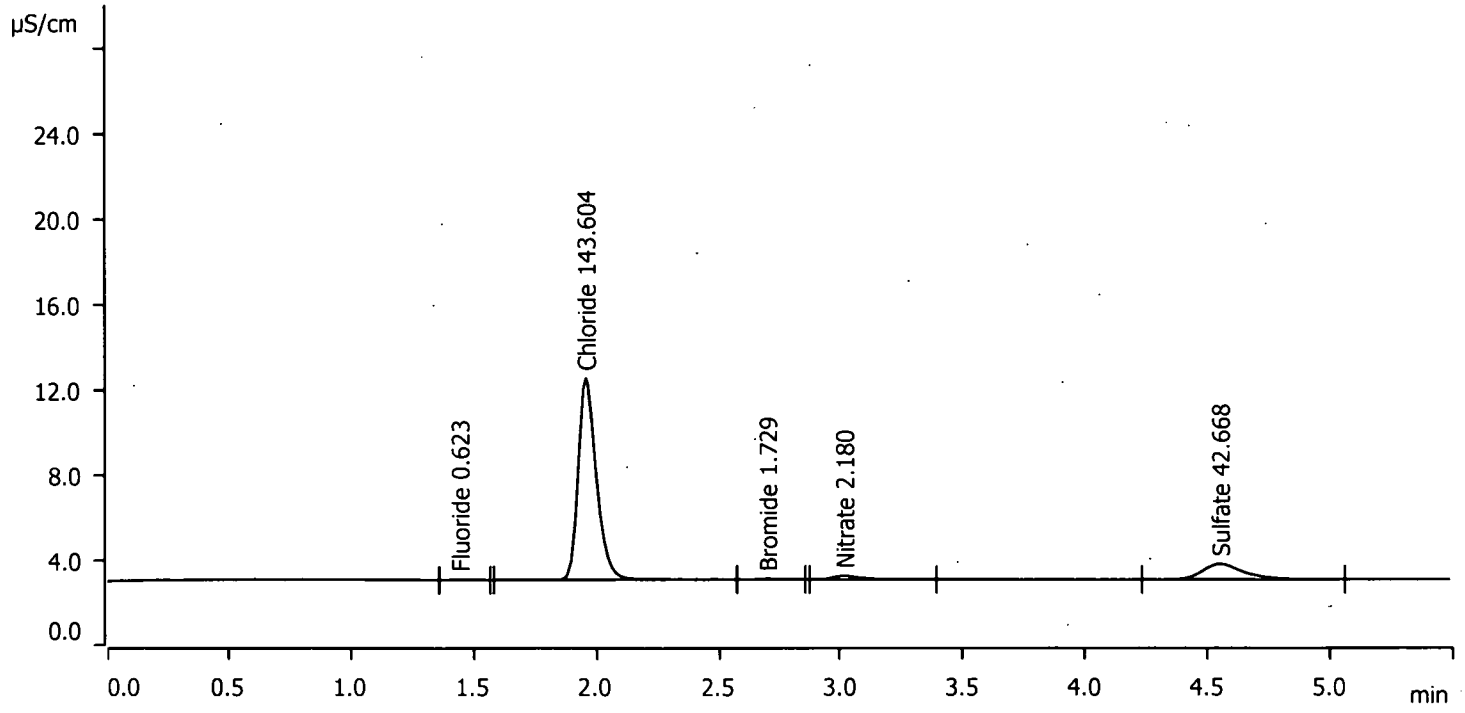
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.714	129.770	Chloride	BB
2	4.55	0.111	33.425	Sulfate	BB

Sample data

Ident	R2401505-001
Sample type	Sample
Determination start	2024-02-27 14:06:08 UTC-5
Method	10-122723FAST
Dilution	20
Counter	77132
Sample Position	53
Comment 1	300.0 C
Comment 2	

Anions



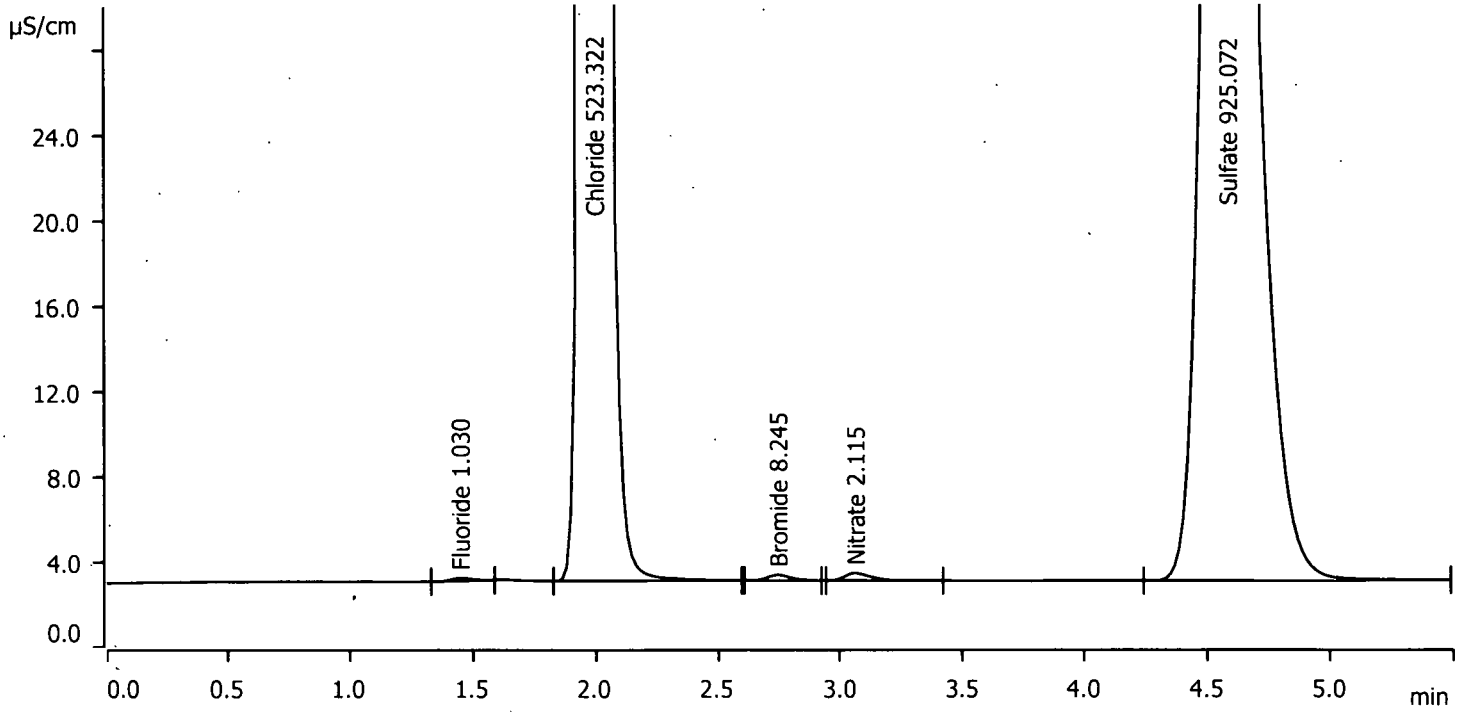
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.002	0.623	Fluoride	BB
2	1.96	0.806	143.604	Chloride	BB
3	2.70	0.003	1.729	Bromide	BB
4	3.02	0.021	2.180	Nitrate	BB
5	4.55	0.143	42.668	Sulfate	BB

Sample data

Ident	R2401532-001
Sample type	Sample
Determination start	2024-02-27 14:13:01 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77133
Sample Position	54
Comment 1	300.0 BN
Comment 2	

Anions



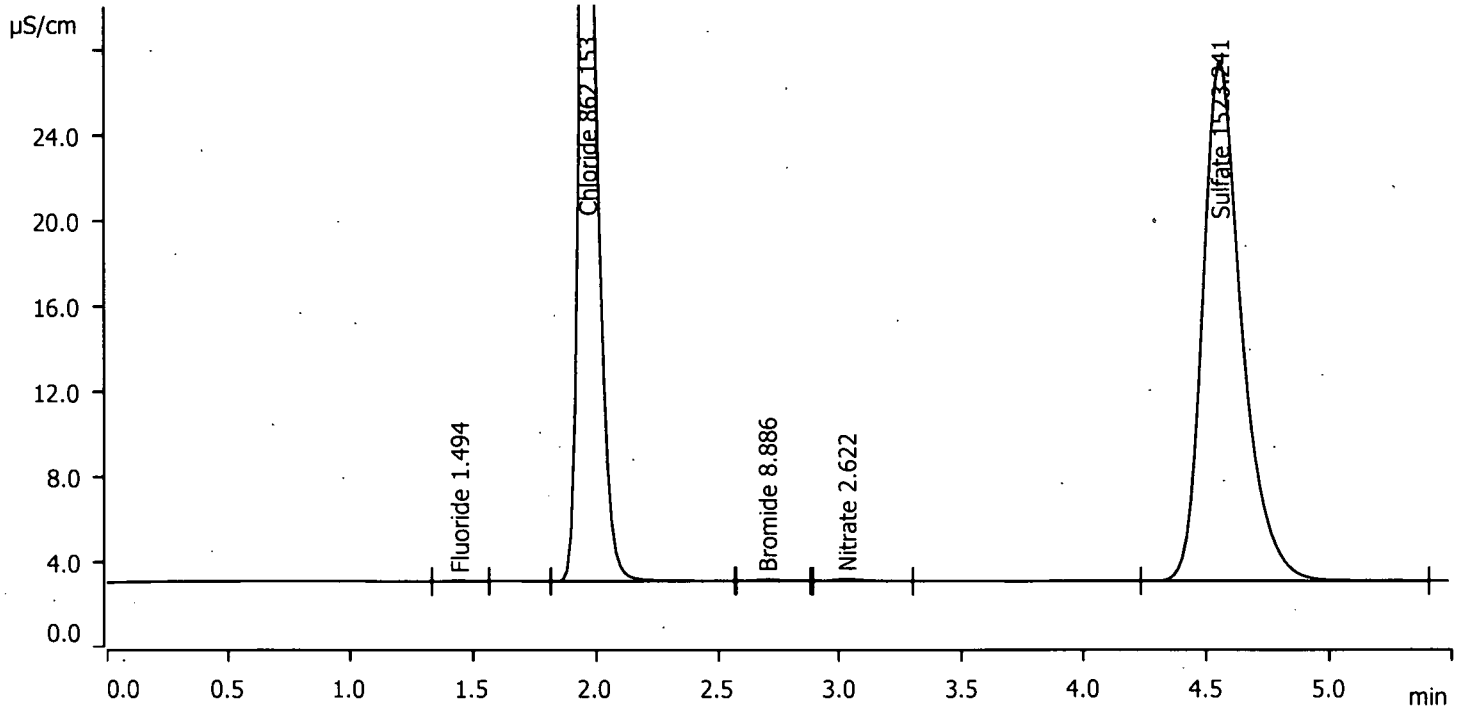
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.013	1.030	Fluoride	BB
2	2.00	13.389	523.322	Chloride	BB
3	2.75	0.029	8.245	Bromide	BB
4	3.06	0.044	2.115	Nitrate	BB
5	4.58	17.977	925.072	Sulfate	BB

Sample data

Ident	R2401532-001 DNR
Sample type	Sample
Determination start	2024-02-27 14:19:57 UTC-5
Method	10-122723FAST
Dilution	40
Counter	77134
Sample Position	55
Comment 1	300.0 CBNS
Comment 2	

Anions



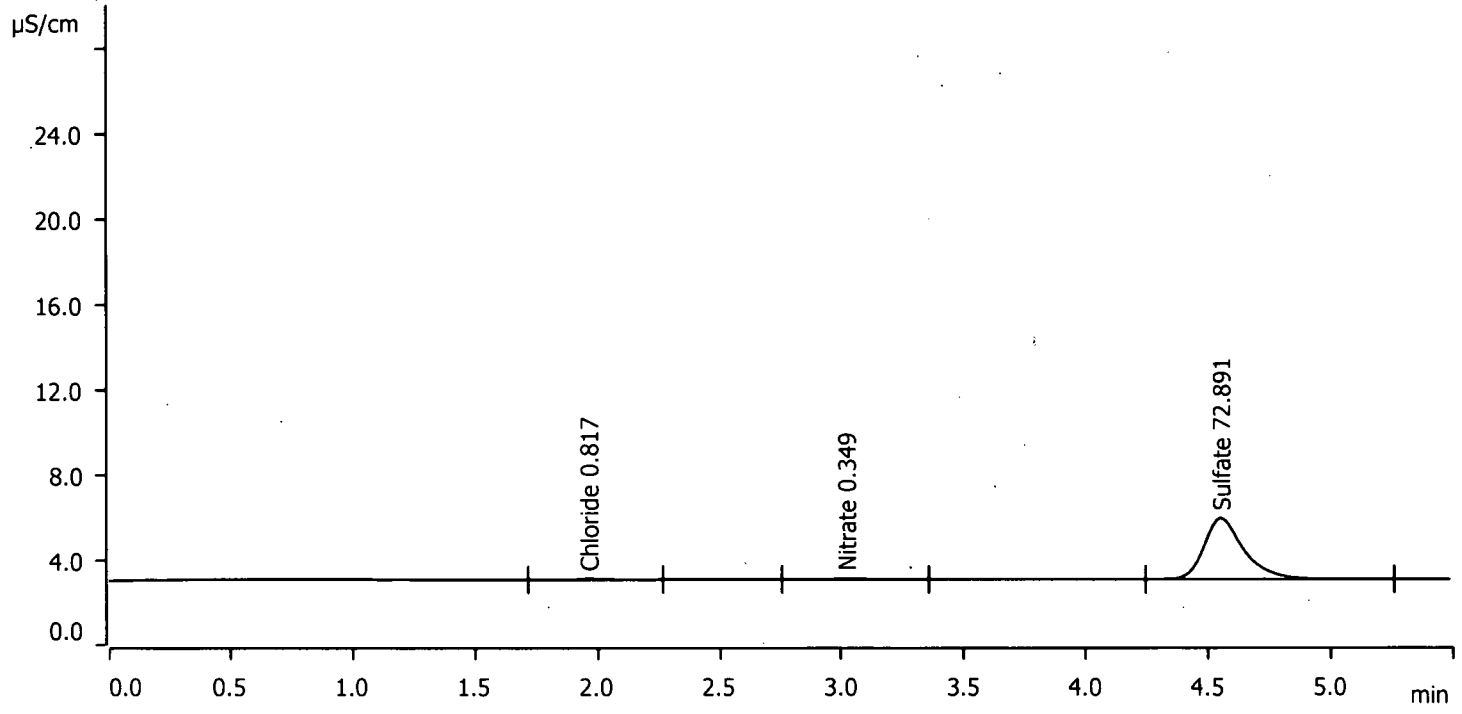
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.003	1.494	Fluoride	BB
2	1.97	3.409	862.153	Chloride	BB
3	2.71	0.008	8.886	Bromide	BB
4	3.03	0.011	2.622	Nitrate	BB
5	4.55	4.478	1523.241	Sulfate	BB

Sample data

Ident	R2401530-001
Sample type	Sample
Determination start	2024-02-27 14:26:49 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77135
Sample Position	56
Comment 1	300.0 CBNS
Comment 2	

Anions



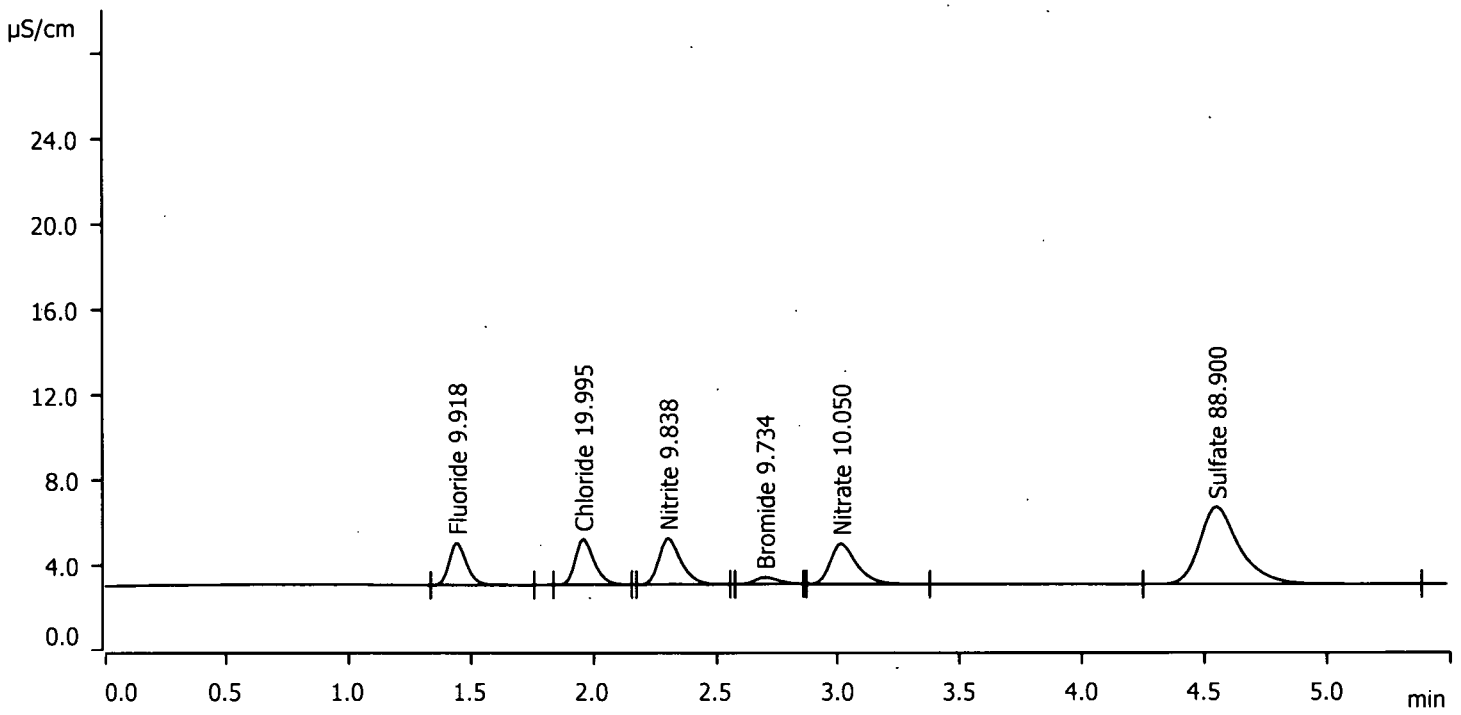
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.97	0.005	0.817	Chloride	BB
2	3.02	0.004	0.349	Nitrate	BB
3	4.55	0.541	72.891	Sulfate	BB

Sample data

Ident	R2401530-001 MS
Sample type	Sample
Determination start	2024-02-27 14:33:41 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77136
Sample Position	57
Comment 1	300.0 CBNS
Comment 2	

Anions



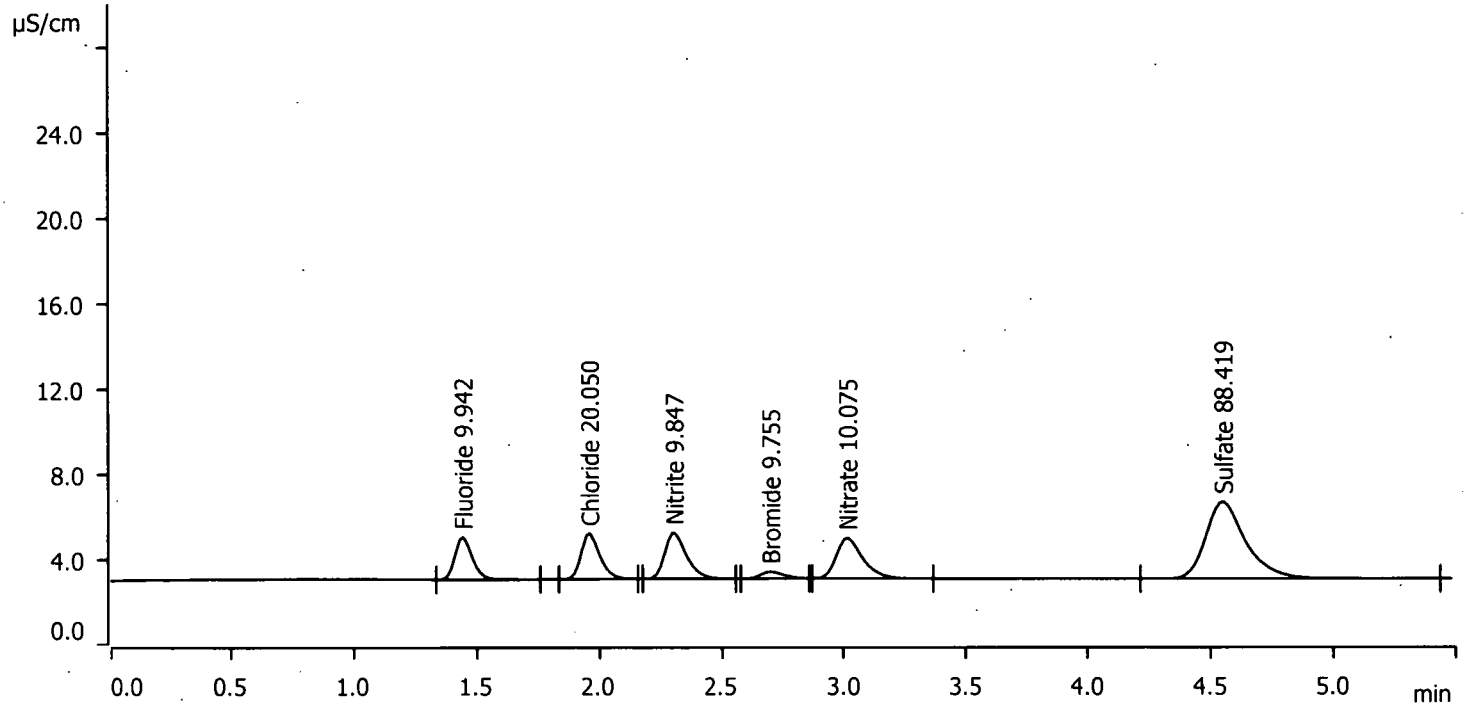
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.161	9.918	Fluoride	BB
2	1.96	0.190	19.995	Chloride	BB
3	2.31	0.223	9.838	Nitrite	BB
4	2.70	0.035	9.734	Bromide	BB
5	3.01	0.234	10.050	Nitrate	BB
6	4.55	0.680	88.900	Sulfate	BB

Sample data

Ident	R2401530-001 MSD
Sample type	Sample
Determination start	2024-02-27 14:40:34 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77137
Sample Position	58
Comment 1	300.0 CBNS
Comment 2	

Anions



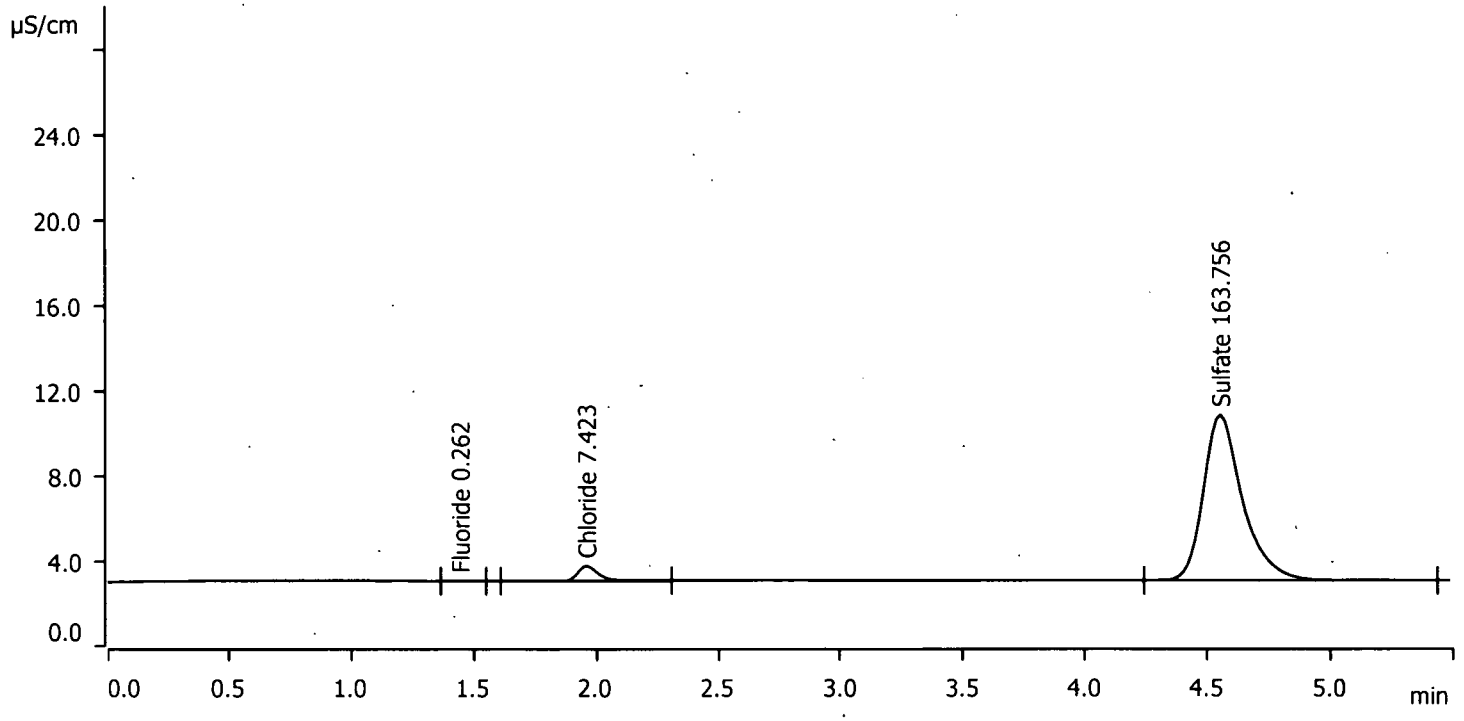
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.162	9.942	Fluoride	BB
2	1.96	0.190	20.050	Chloride	BB
3	2.31	0.223	9.847	Nitrite	BB
4	2.70	0.035	9.755	Bromide	BB
5	3.01	0.235	10.075	Nitrate	BB
6	4.55	0.676	88.419	Sulfate	BB

Sample data

Ident	R2401530-002
Sample type	Sample
Determination start	2024-02-27 14:47:27 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77138
Sample Position	59
Comment 1	300.0 CBN
Comment 2	

Anions



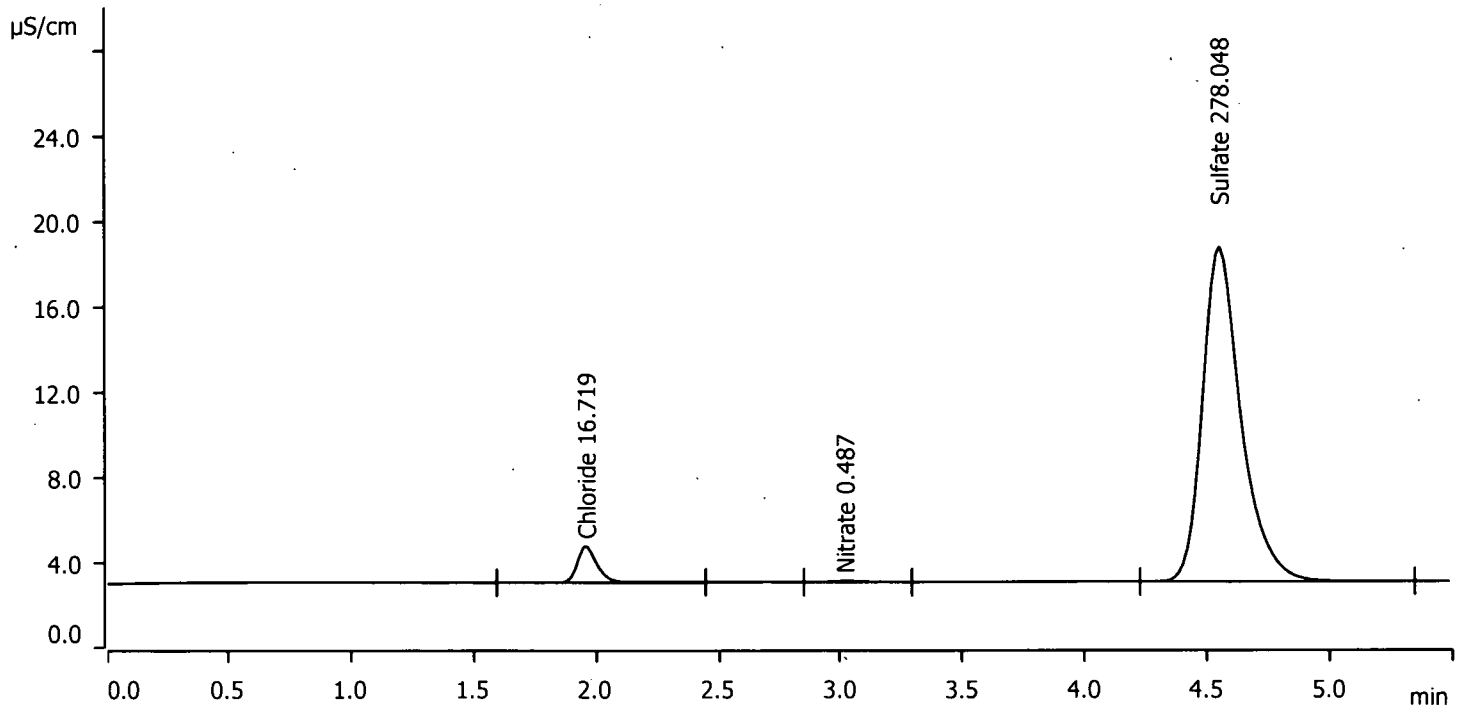
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.001	0.262	Fluoride	BB
2	1.96	0.066	7.423	Chloride	BB
3	4.55	1.425	163.756	Sulfate	BB

Sample data

Ident	R2401530-003
Sample type	Sample
Determination start	2024-02-27 14:54:20 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77139
Sample Position	60
Comment 1	300.0 CBN
Comment 2	

Anions



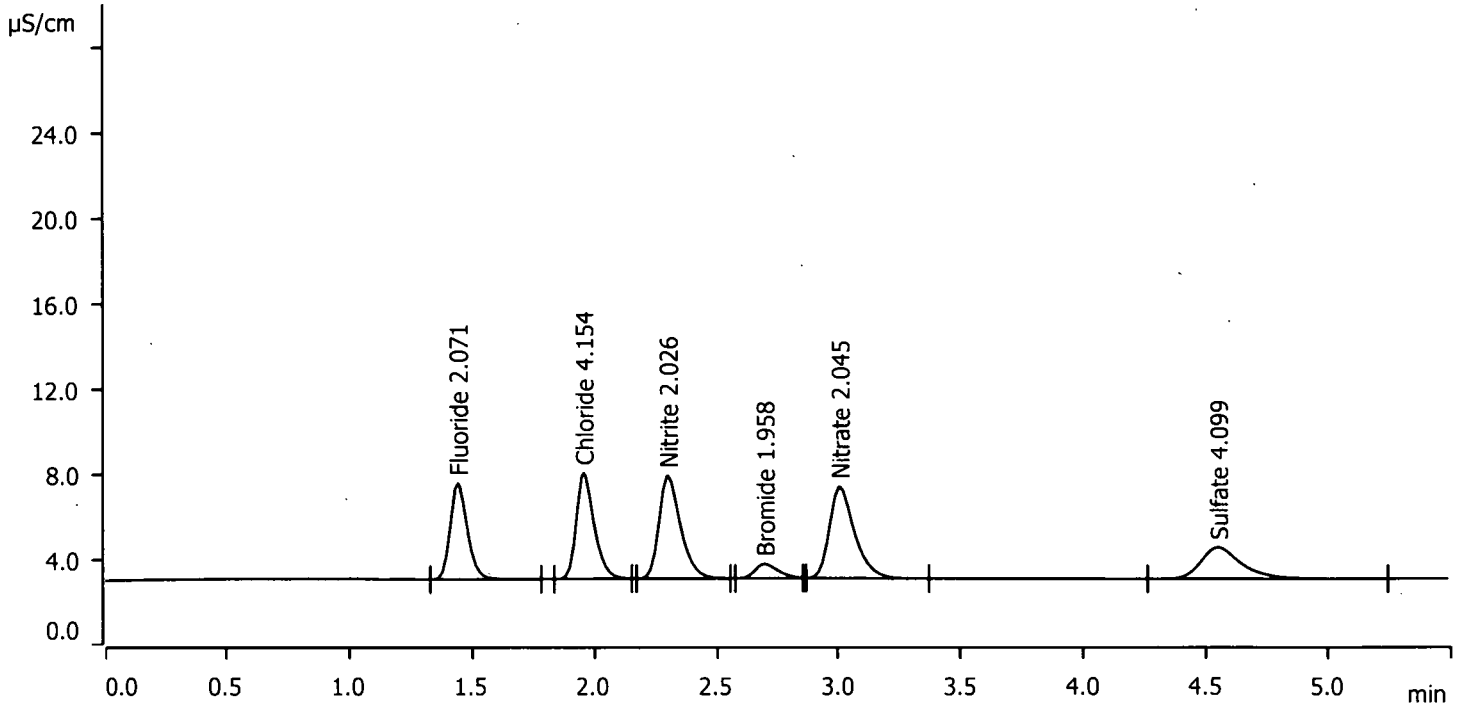
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.156	16.719	Chloride	BB
2	3.02	0.007	0.487	Nitrate	BB
3	4.55	2.867	278.048	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-02-27 15:01:12 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77140
Sample Position	61
Comment 1	300.0/9056A
Comment 2	

Anions



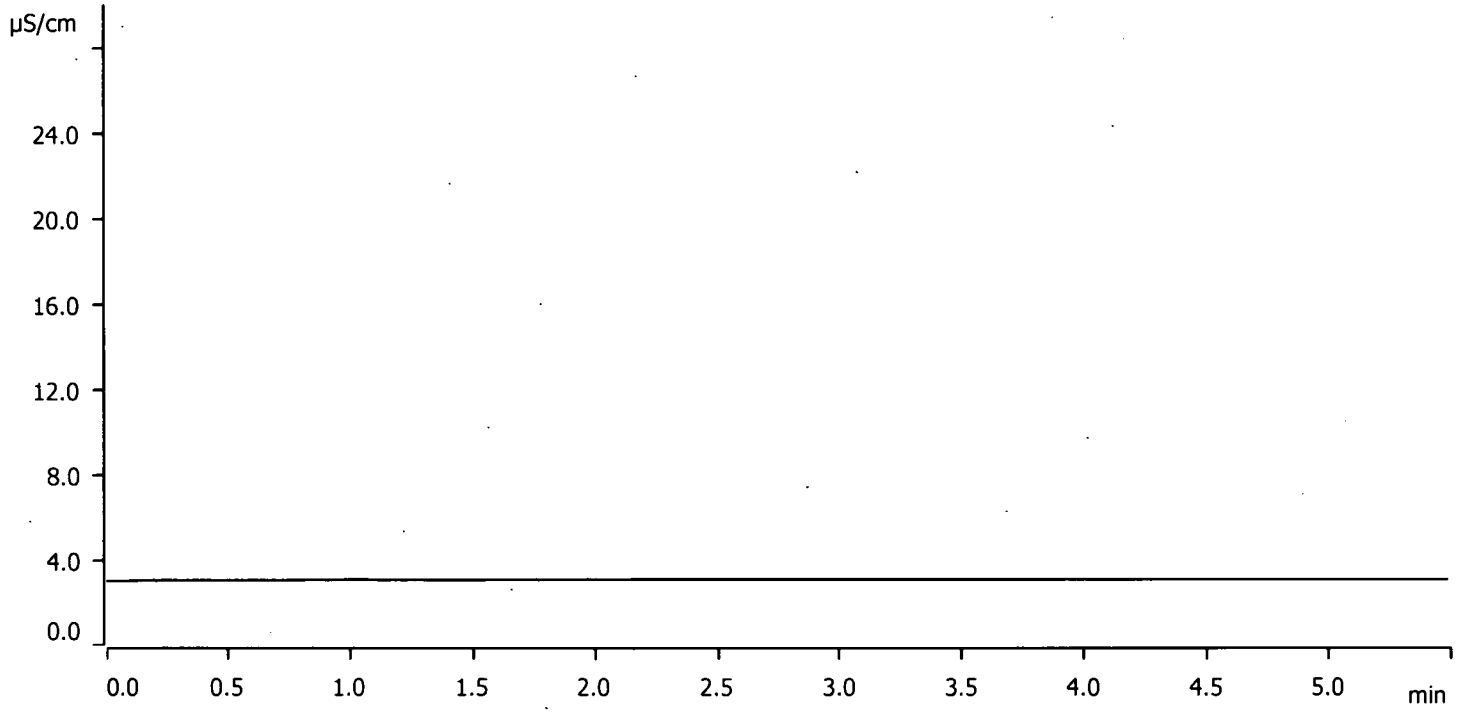
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.358	2.071	Fluoride	BB
2	1.96	0.425	4.154	Chloride	BB
3	2.31	0.488	2.026	Nitrite	BB
4	2.70	0.073	1.958	Bromide	BB
5	3.01	0.514	2.045	Nitrate	BB
6	4.55	0.286	4.099	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-02-27 15:08:05 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77141
Sample Position	62
Comment 1	300.0/9056A
Comment 2	

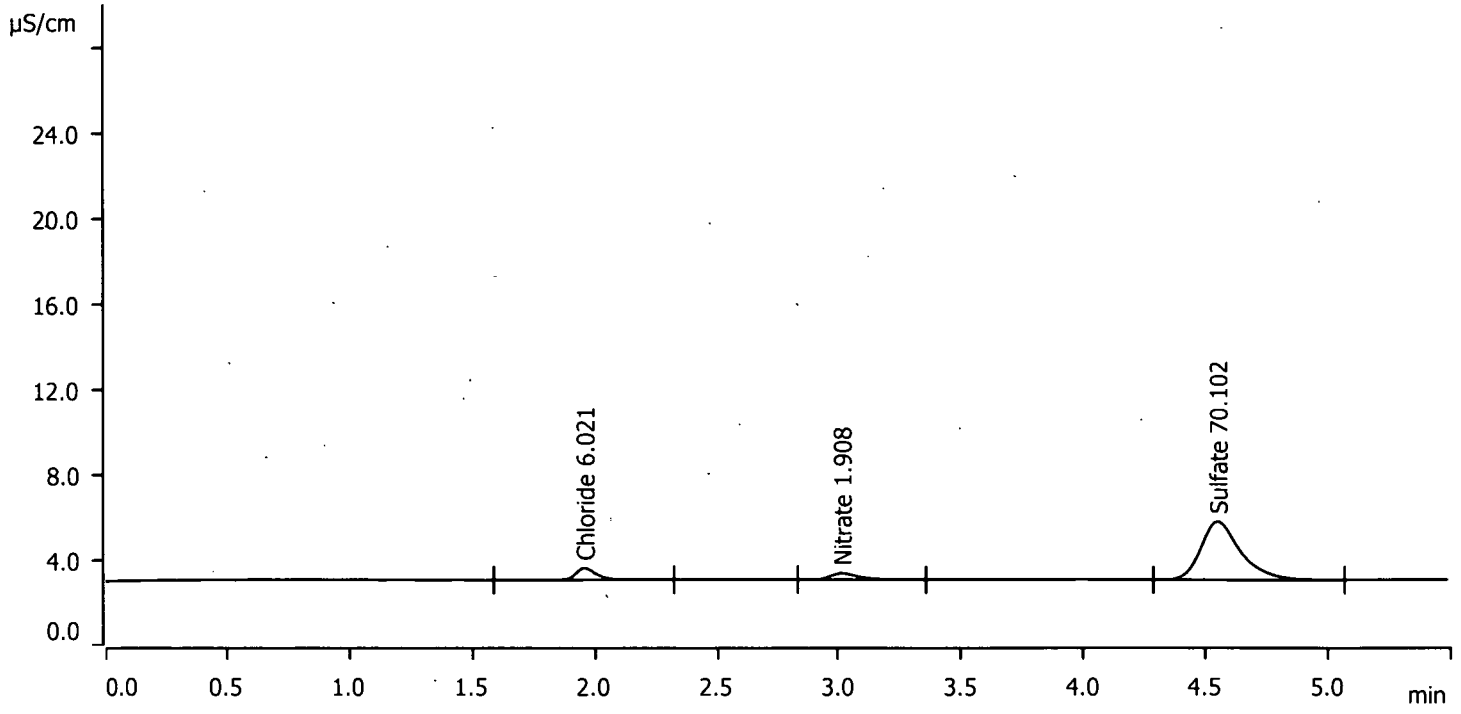
Anions



Sample data

Ident	R2401530-004
Sample type	Sample
Determination start	2024-02-27 15:14:55 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77142
Sample Position	63
Comment 1	300.0 CBNS
Comment 2	

Anions



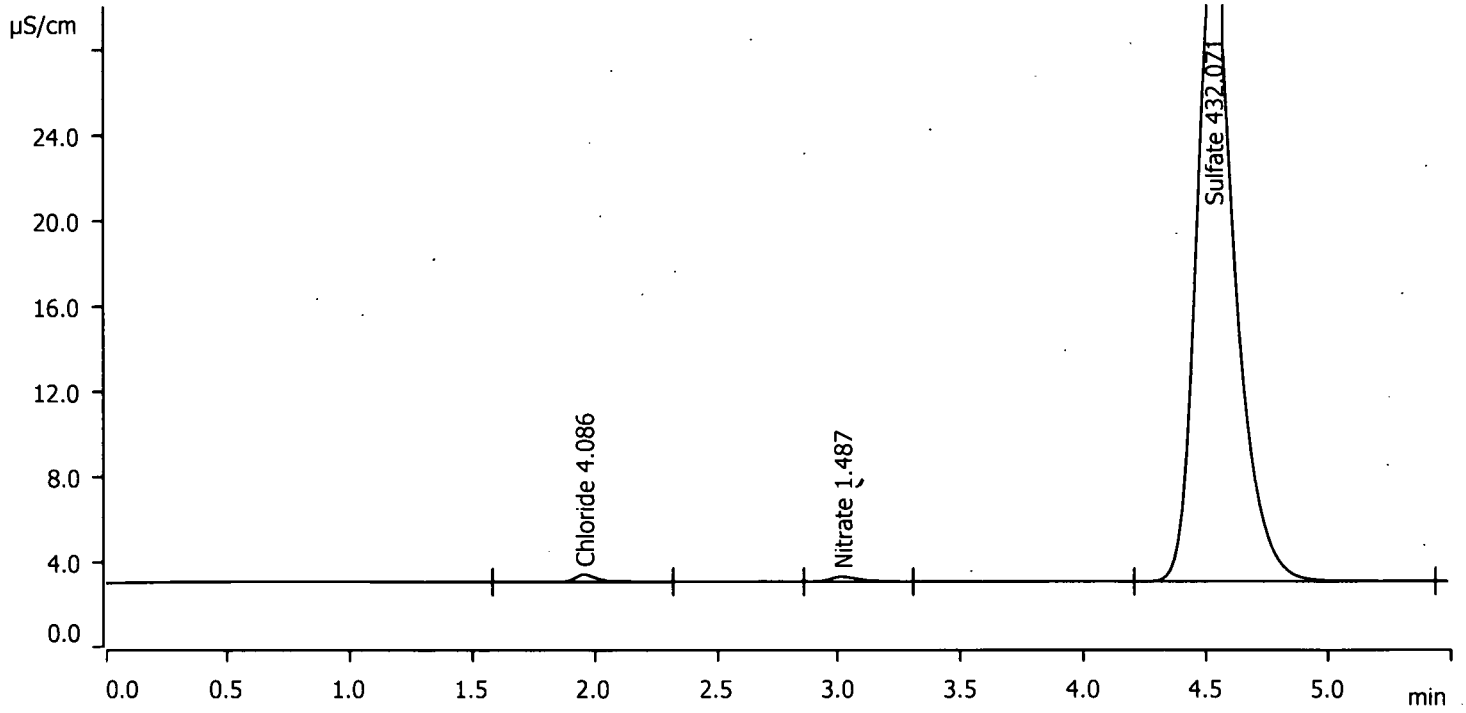
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.053	6.021	Chloride	BB
2	3.01	0.039	1.908	Nitrate	BB
3	4.55	0.518	70.102	Sulfate	BB

Sample data

Ident	R2401530-005
Sample type	Sample
Determination start	2024-02-27 15:21:47 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77143
Sample Position	64
Comment 1	300.0 CBN
Comment 2	

Anions



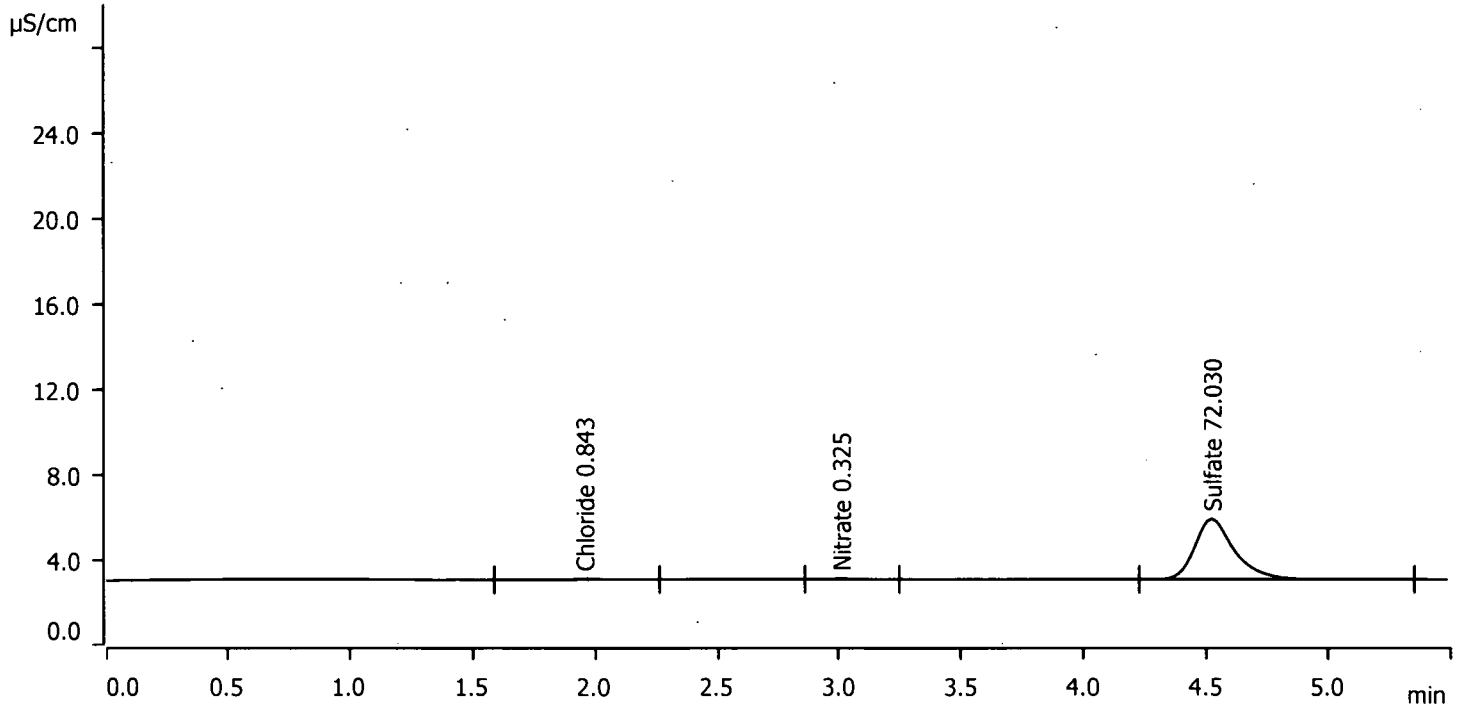
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.035	4.086	Chloride	BB
2	3.02	0.030	1.487	Nitrate	BB
3	4.53	5.393	432.071	Sulfate	BB

Sample data

Ident	R2401530-006
Sample type	Sample
Determination start	2024-02-27 15:28:41 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77144
Sample Position	65
Comment 1	300.0 CBNS
Comment 2	

Anions



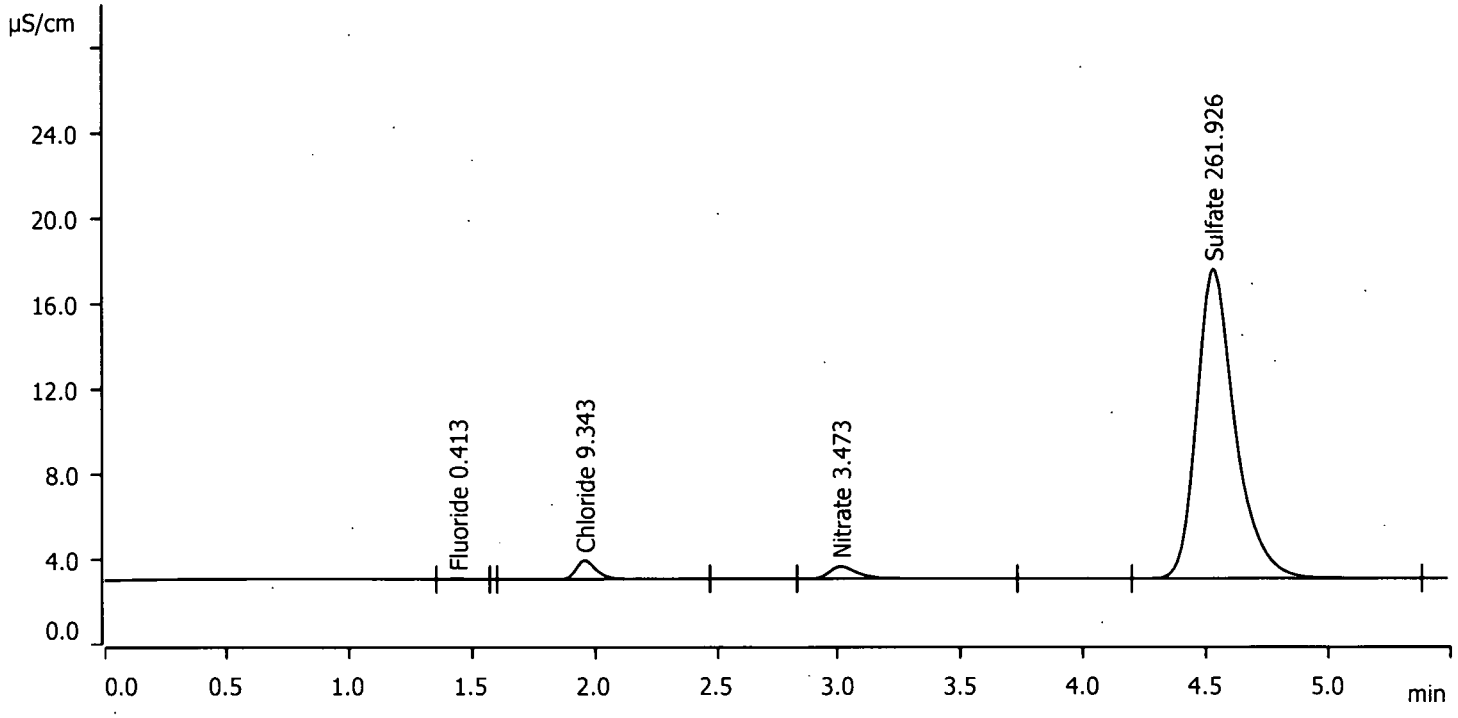
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.005	0.843	Chloride	BB
2	3.01	0.004	0.325	Nitrate	BB
3	4.52	0.534	72.030	Sulfate	BB

Sample data

Ident	R2401141-008
Sample type	Sample
Determination start	2024-02-27 15:35:36 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77145
Sample Position	66
Comment 1	300.0 C
Comment 2	

Anions



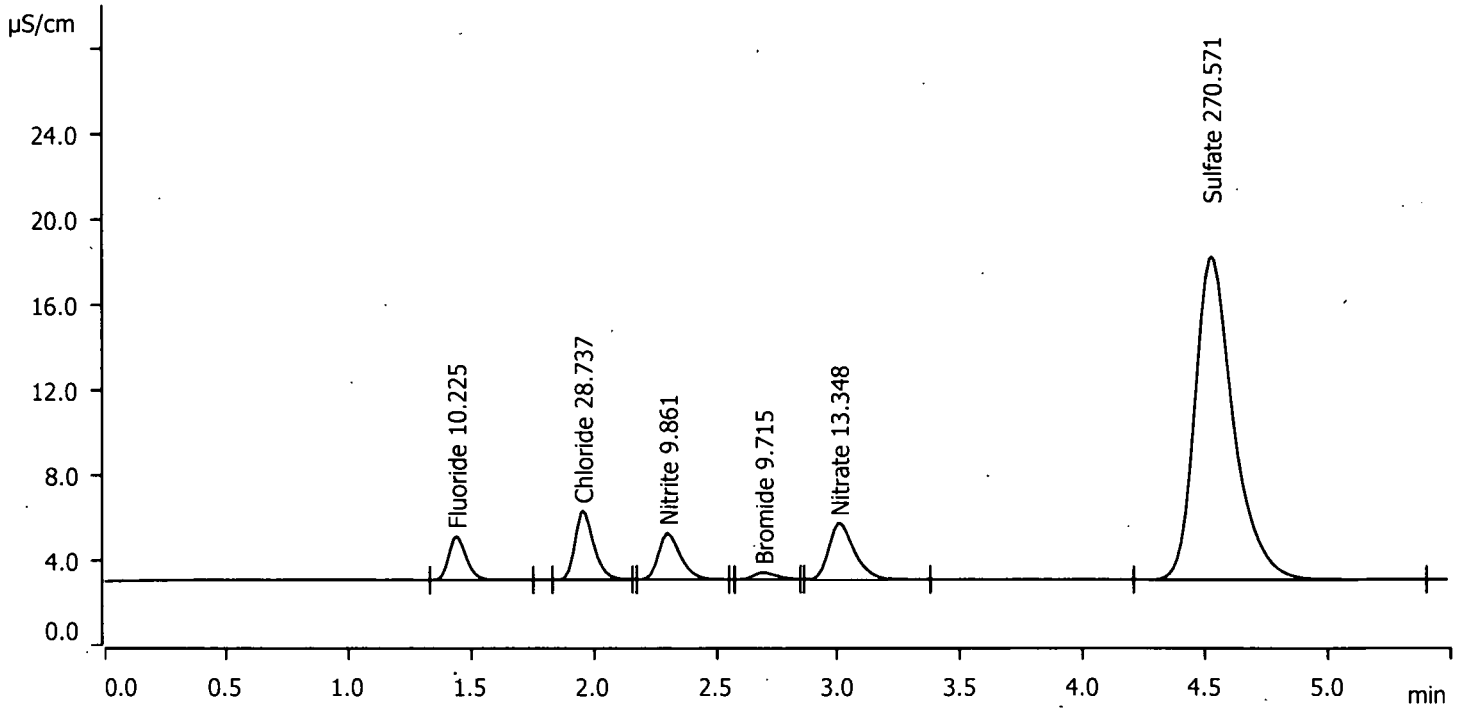
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.004	0.413	Fluoride	BB
2	1.96	0.084	9.343	Chloride	BB
3	3.01	0.075	3.473	Nitrate	BB
4	4.53	2.641	261.926	Sulfate	BB

Sample data

Ident	R2401141-008 MS
Sample type	Sample
Determination start	2024-02-27 15:42:30 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77146
Sample Position	67
Comment 1	300.0 C
Comment 2	

Anions



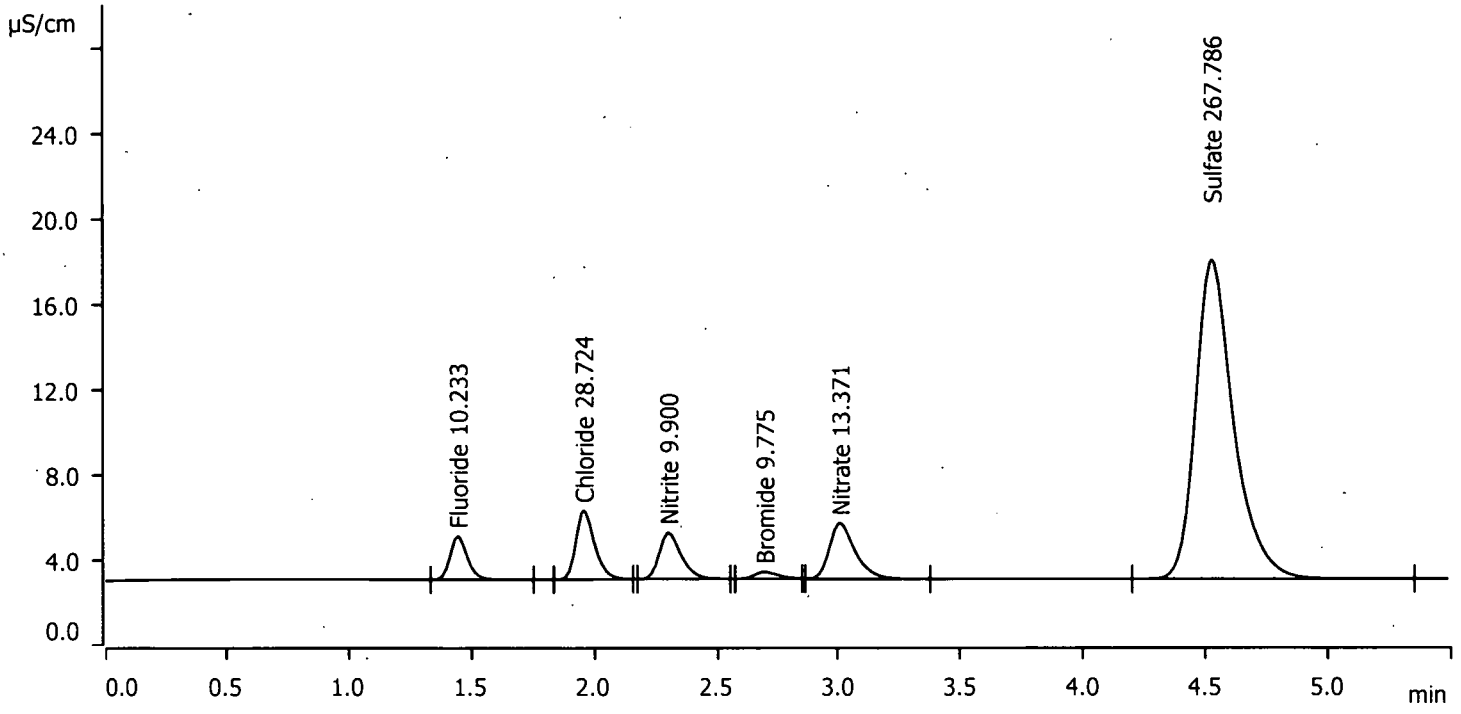
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.167	10.225	Fluoride	BB
2	1.96	0.282	28.737	Chloride	BB
3	2.30	0.224	9.861	Nitrite	BB
4	2.70	0.035	9.715	Bromide	BB
5	3.01	0.319	13.348	Nitrate	BB
6	4.53	2.761	270.571	Sulfate	BB

Sample data

Ident	R2401141-008 MSD
Sample type	Sample
Determination start	2024-02-27 15:49:23 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77147
Sample Position	68
Comment 1	300.0 C
Comment 2	

Anions



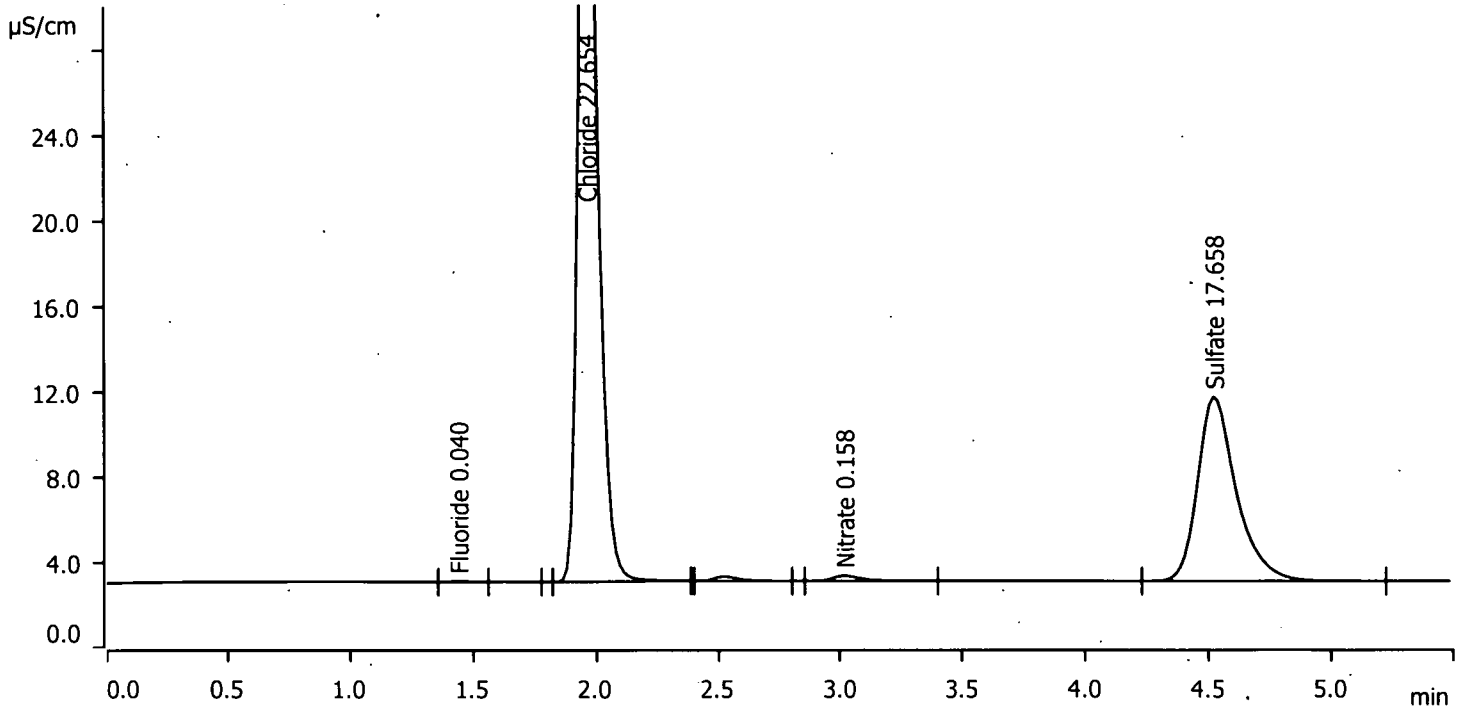
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.167	10.233	Fluoride	BB
2	1.96	0.282	28.724	Chloride	BB
3	2.30	0.224	9.900	Nitrite	BB
4	2.70	0.035	9.775	Bromide	BB
5	3.01	0.320	13.371	Nitrate	BB
6	4.53	2.723	267.786	Sulfate	BB

Sample data

Ident	R2401431-001
Sample type	Sample
Determination start	2024-02-27 15:56:15 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77148
Sample Position	69
Comment 1	300.0 F
Comment 2	

Anions



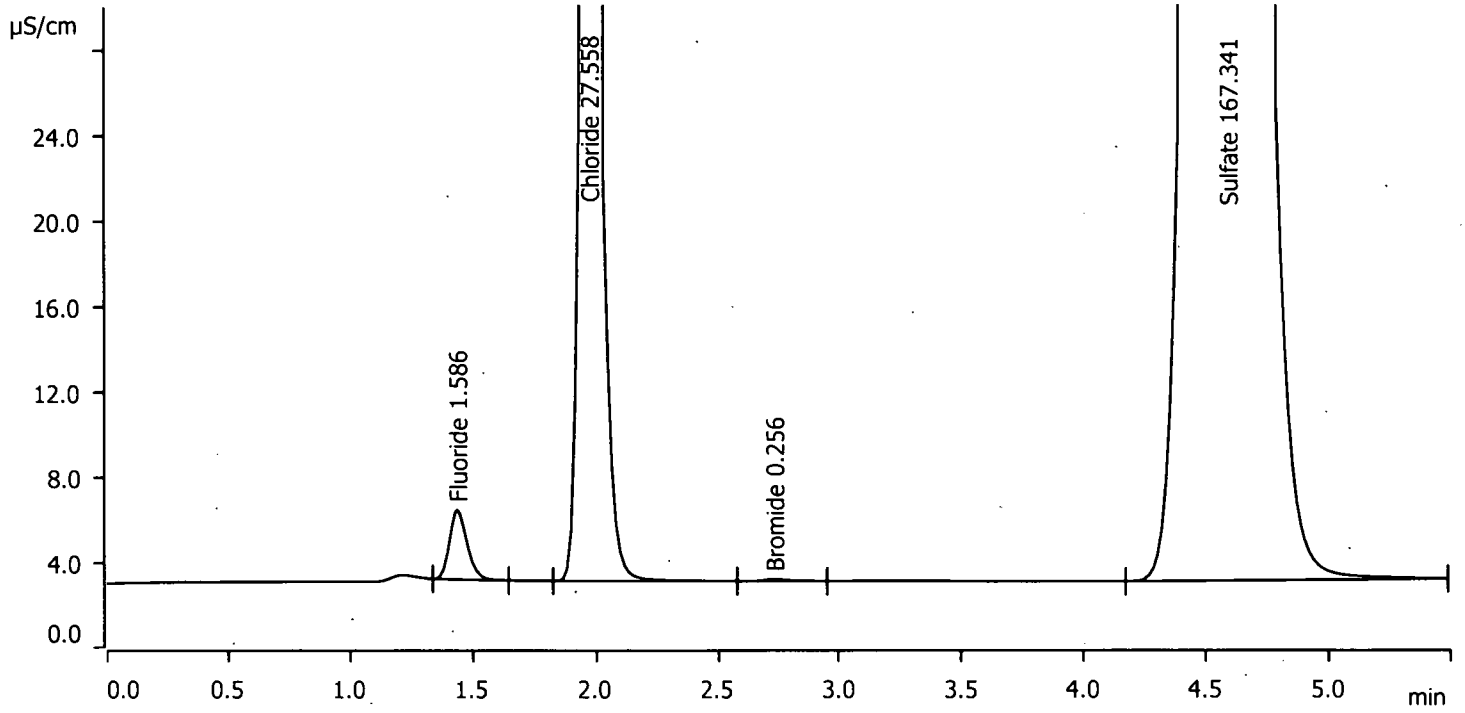
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.003	0.040	Fluoride	BB
3	1.97	3.662	22.654	Chloride	BB
5	3.02	0.032	0.158	Nitrate	BB
6	4.52	1.568	17.658	Sulfate	BB

Sample data

Ident	R2401398-003
Sample type	Sample
Determination start	2024-02-27 16:03:08 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77149
Sample Position	70
Comment 1	300.0 F
Comment 2	

Anions



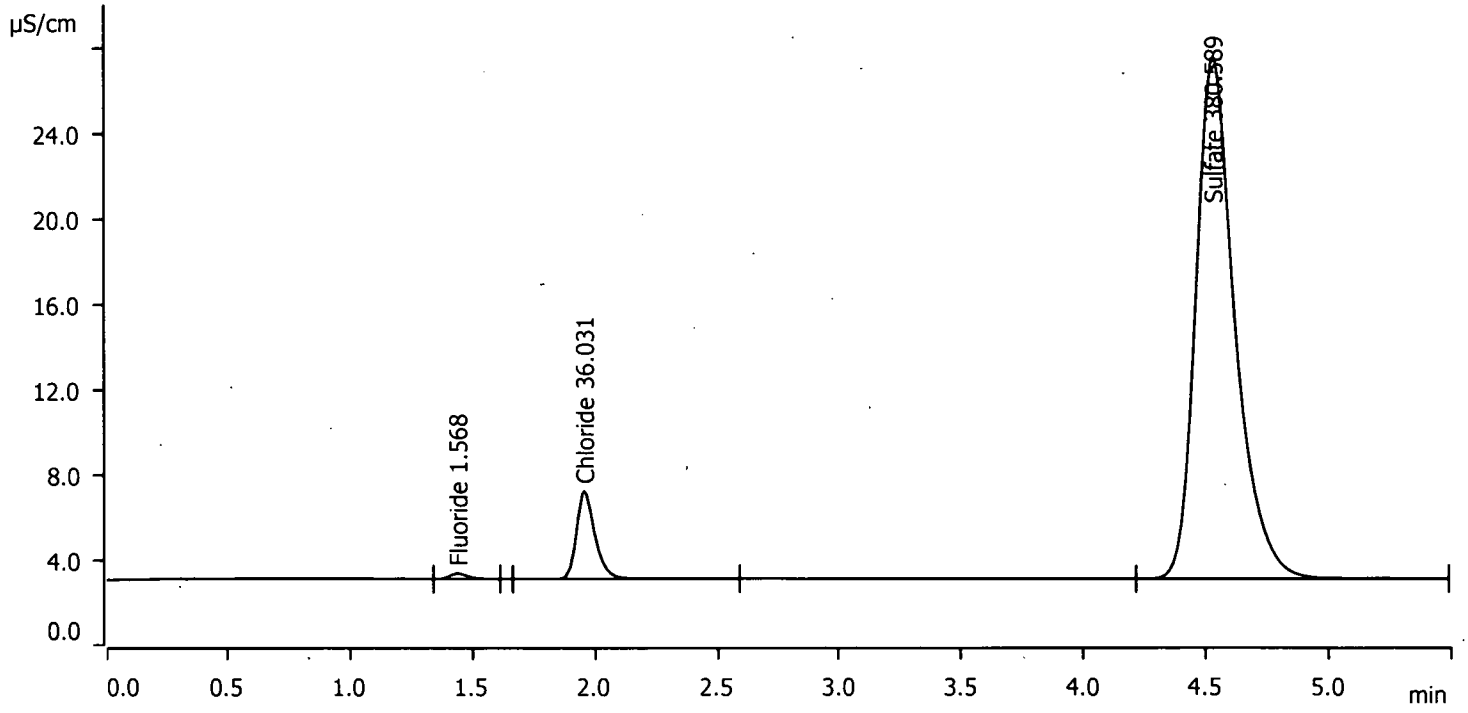
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.267	1.586	Fluoride	BB
2	1.98	4.884	27.558	Chloride	BB
3	2.73	0.009	0.256	Bromide	BB
4	4.59	50.175	167.341	Sulfate	BB

Sample data

Ident	R2401398-003
Sample type	Sample
Determination start	2024-02-27 16:10:00 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77150
Sample Position	71
Comment 1	300.0 C
Comment 2	

Anions



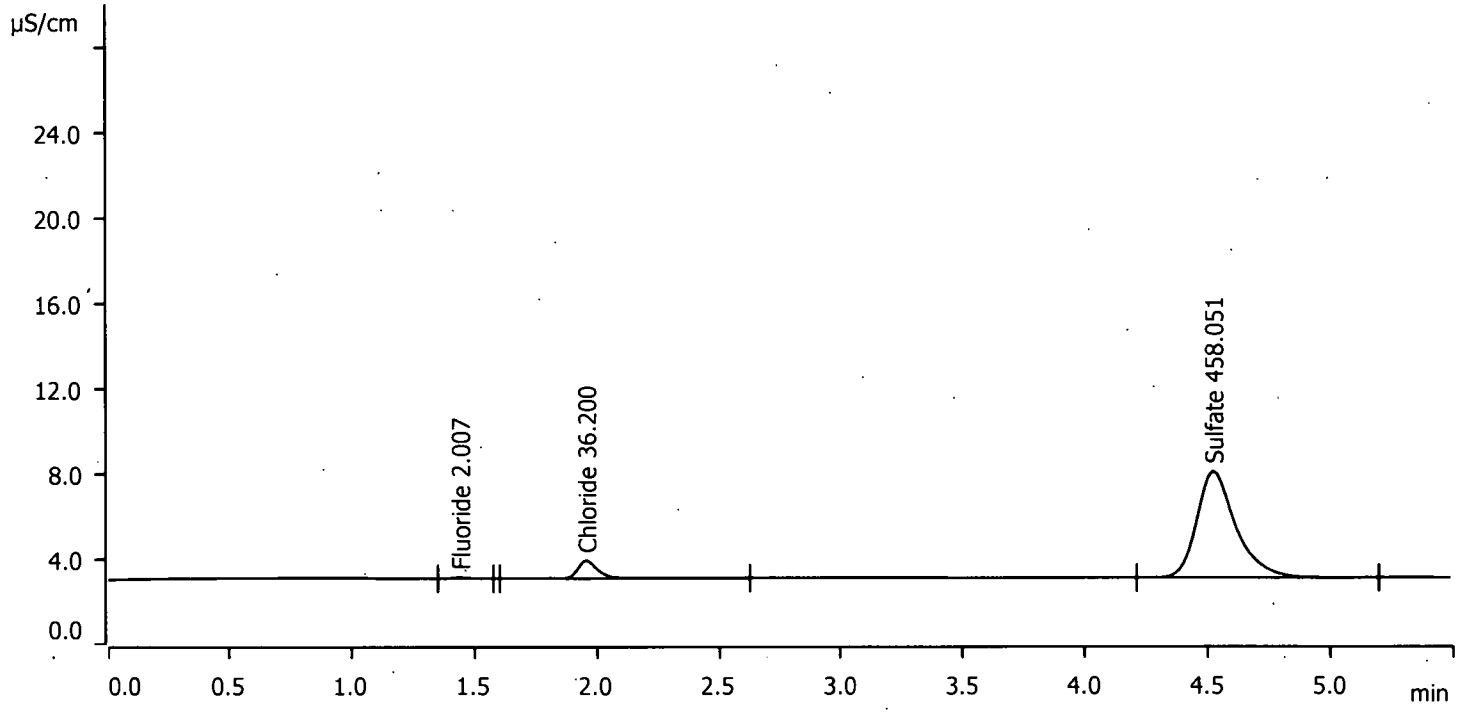
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.022	1.568	Fluoride	BB
2	1.96	0.362	36.031	Chloride	BB
3	4.53	4.475	380.589	Sulfate	BB

Sample data

Ident	R2401398-003 DNR
Sample type	Sample
Determination start	2024-02-27 16:16:52 UTC-5
Method	10-122723FAST
Dilution	40
Counter	77151
Sample Position	72
Comment 1	300.0 S
Comment 2	

Anions



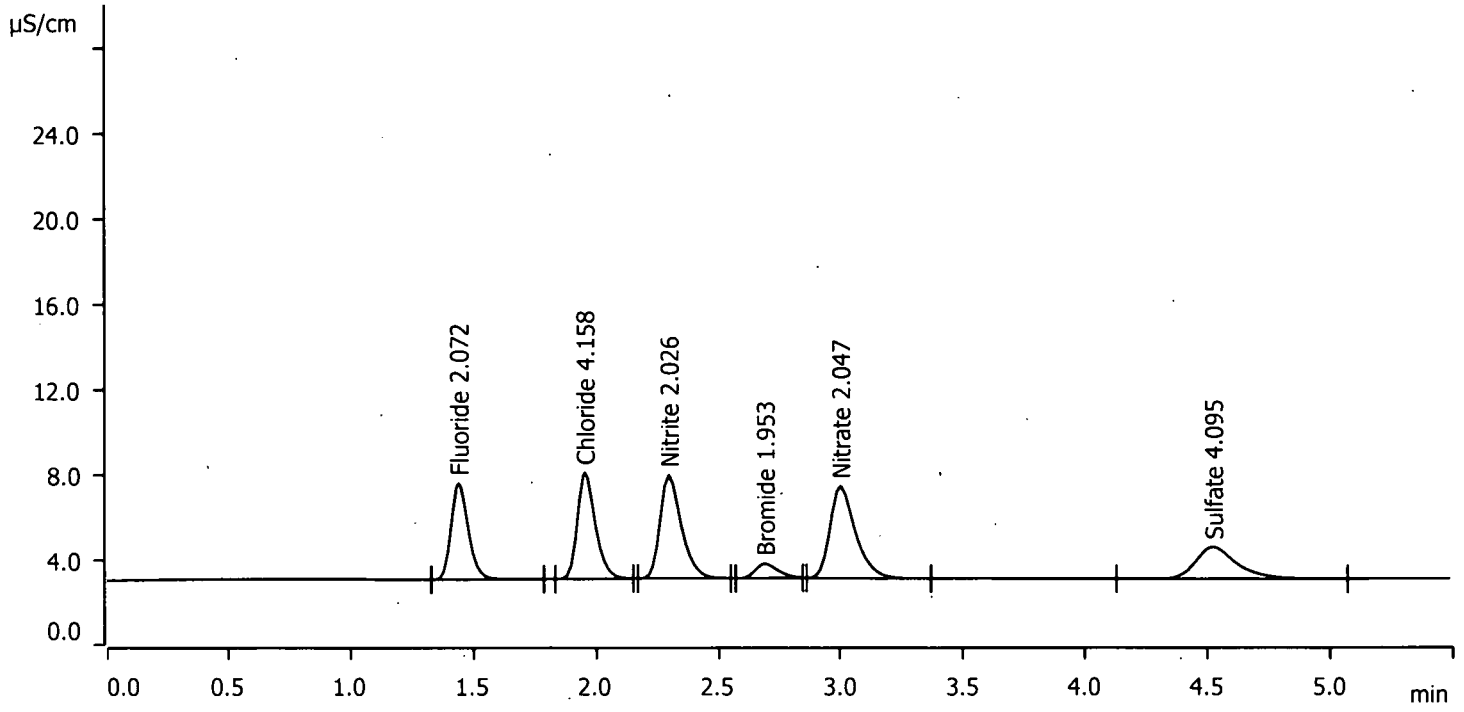
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.005	2.007	Fluoride	BB
2	1.96	0.081	36.200	Chloride	BB
3	4.52	0.917	458.051	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-02-27 16:23:47 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77152
Sample Position	73
Comment 1	300.0/9056A
Comment 2	

Anions



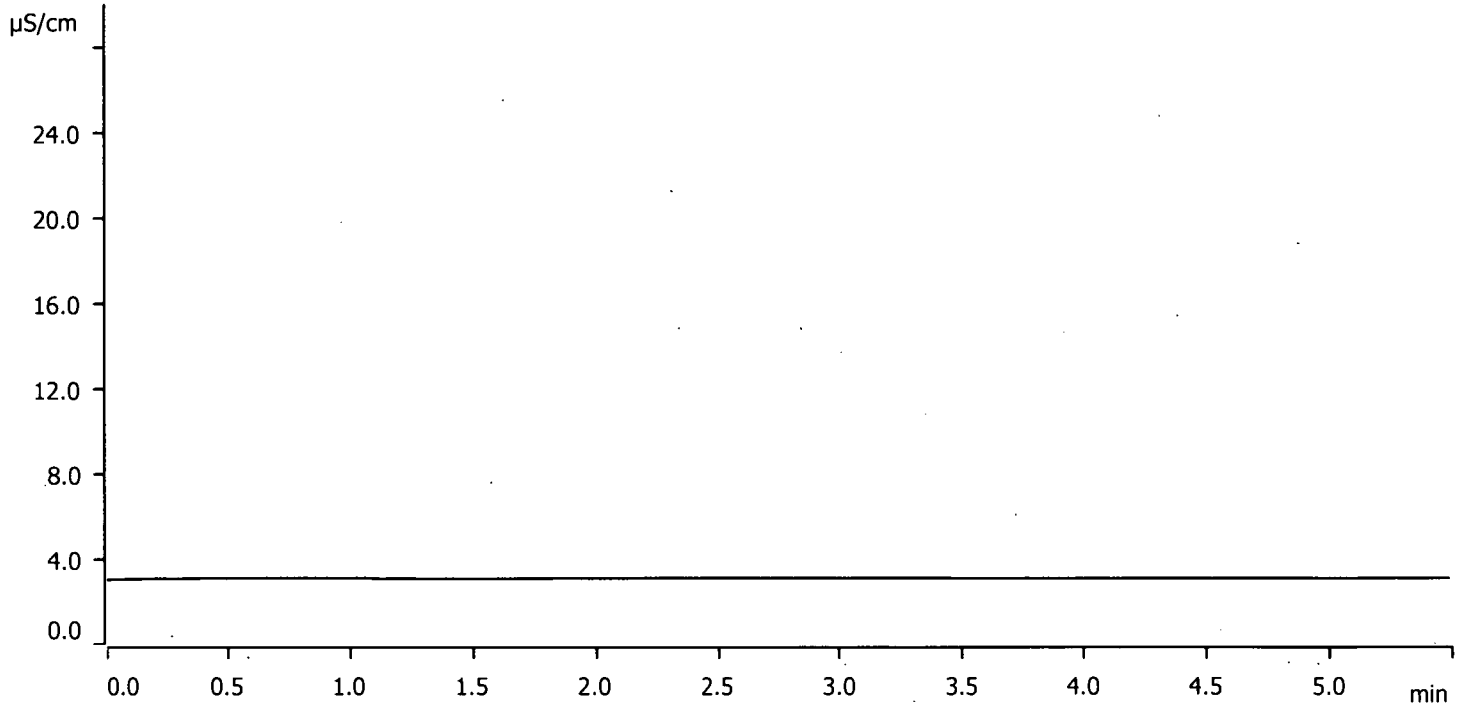
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.358	2.072	Fluoride	BB
2	1.96	0.426	4.158	Chloride	BB
3	2.30	0.488	2.026	Nitrite	BB
4	2.69	0.072	1.953	Bromide	BB
5	3.00	0.515	2.047	Nitrate	BB
6	4.52	0.286	4.095	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-02-27 16:30:45 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77153
Sample Position	74
Comment 1	300.0/9056A
Comment 2	

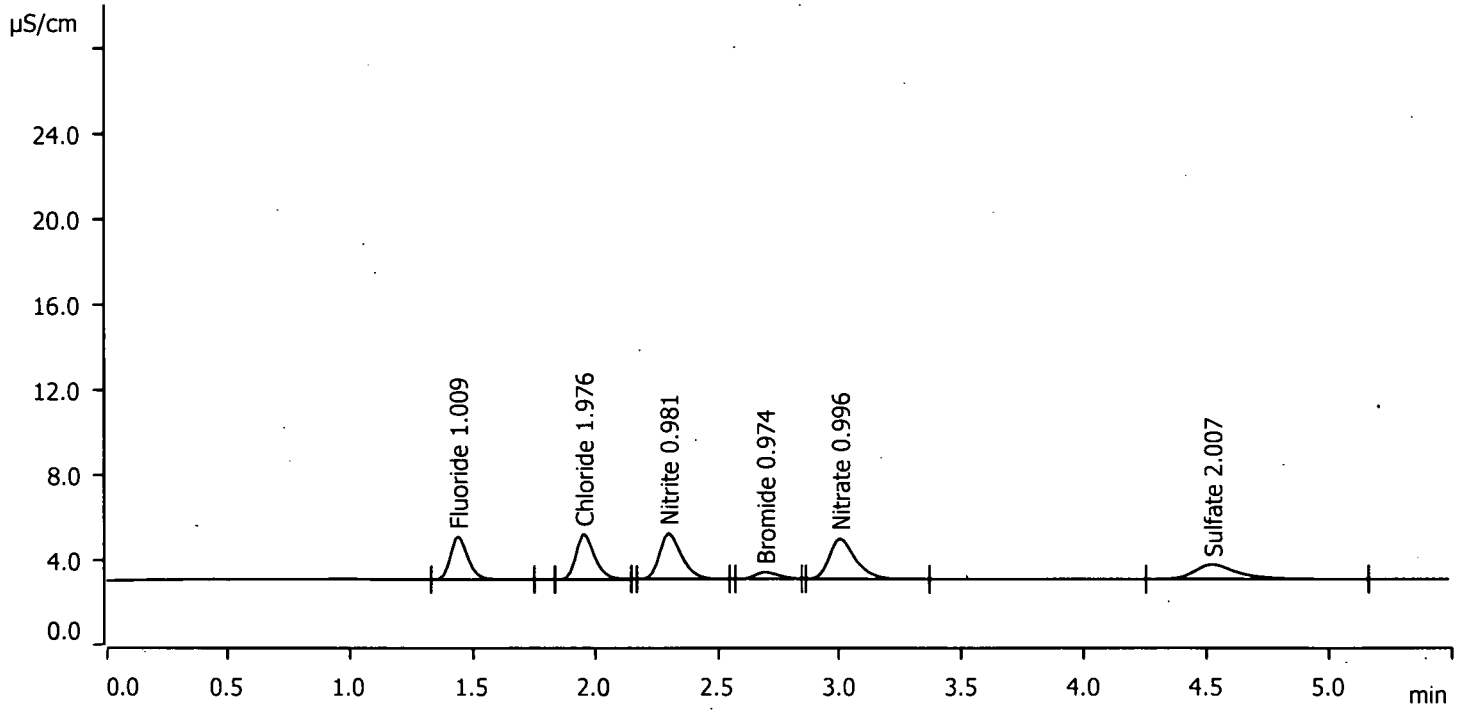
Anions



Sample data

Ident	LCS
Sample type	Check standard 2
Determination start	2024-02-27 16:37:35 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77154
Sample Position	75
Comment 1	300.0/9056A
Comment 2	

Anions



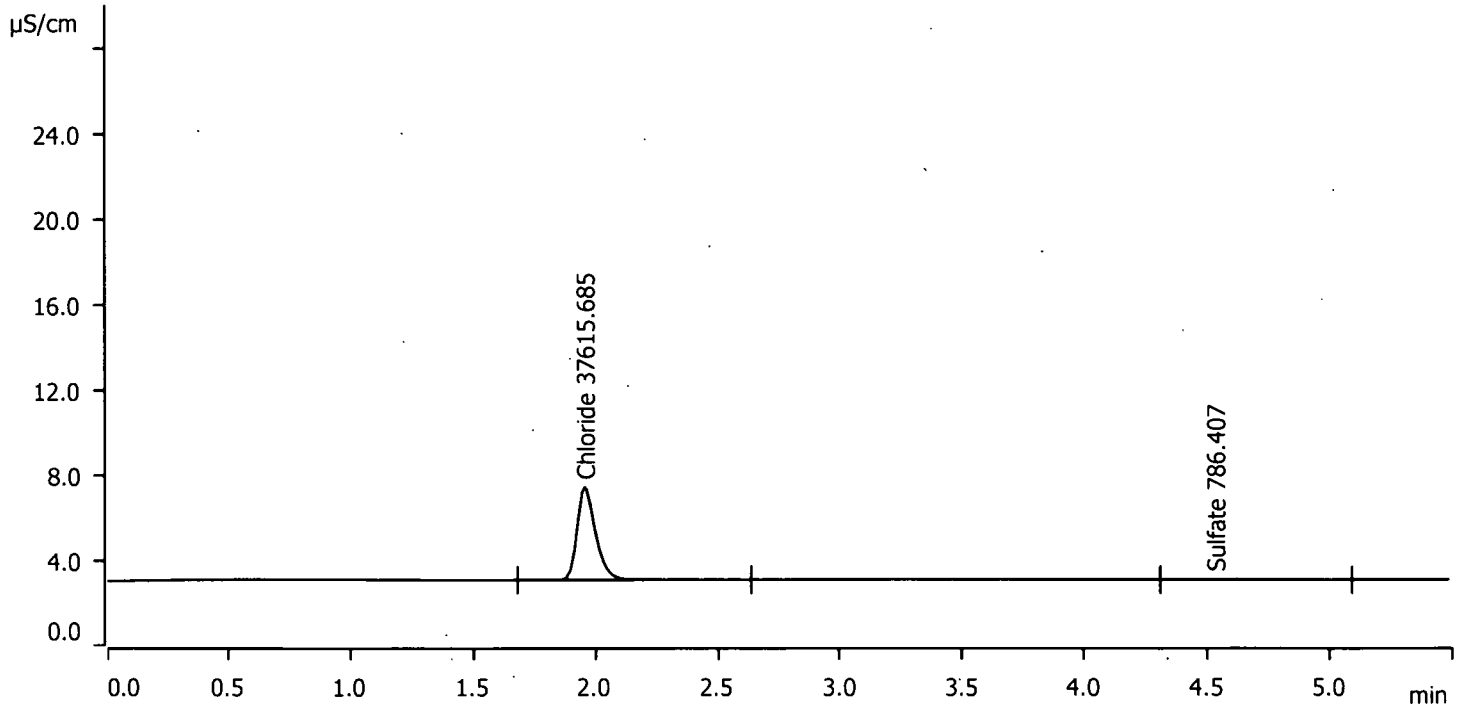
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.164	1.009	Fluoride	BB
2	1.96	0.187	1.976	Chloride	BB
3	2.30	0.222	0.981	Nitrite	BB
4	2.69	0.035	0.974	Bromide	BB
5	3.00	0.232	0.996	Nitrate	BB
6	4.52	0.134	2.007	Sulfate	BB

Sample data

Ident	R2401135-003
Sample type	Sample
Determination start	2024-02-27 16:44:37 UTC-5
Method	10-122723FAST
Dilution	10000
Counter	77155
Sample Position	76
Comment 1	9056A C
Comment 2	

Anions



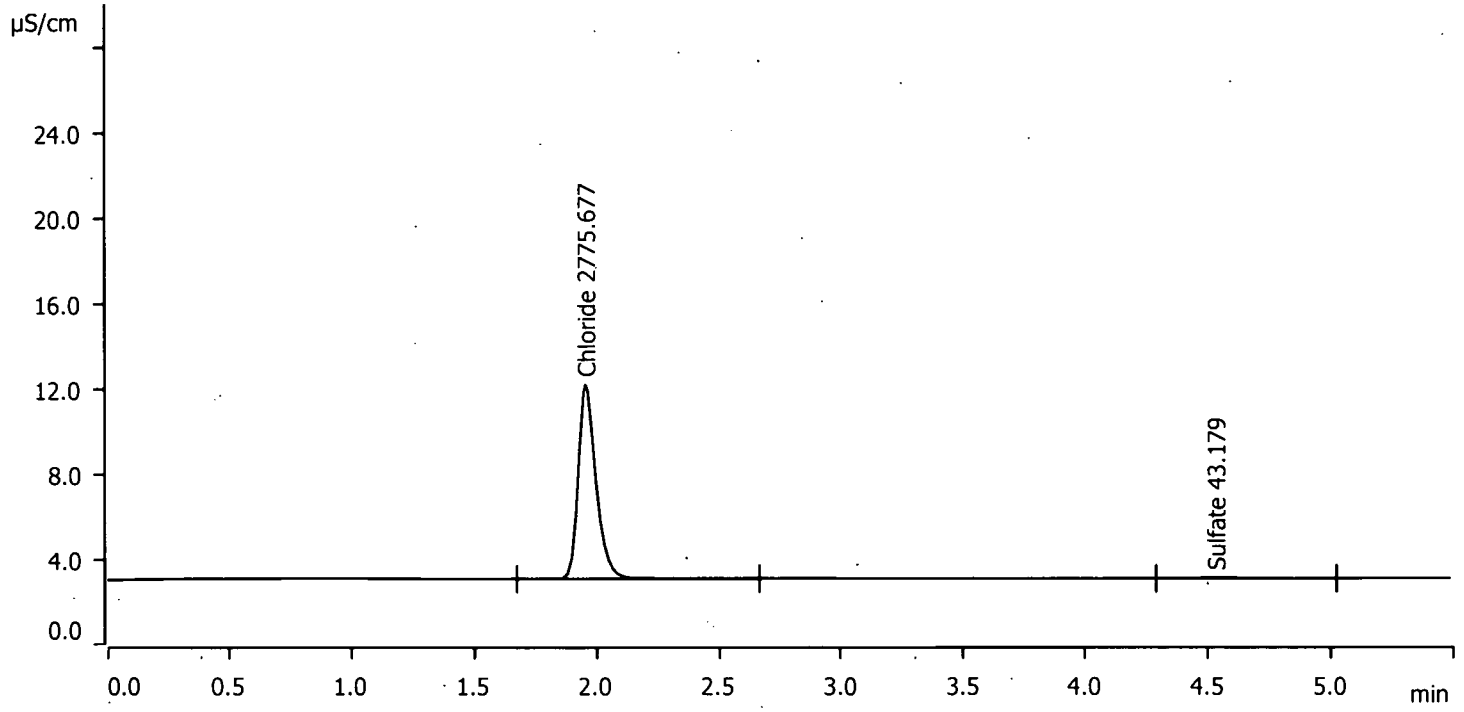
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.380	37615.685	Chloride	BB
2	4.53	0.005	786.407	Sulfate	BBI

Sample data

Ident	R2401135-004
Sample type	Sample
Determination start	2024-02-27 16:51:29 UTC-5
Method	10-122723FAST
Dilution	400
Counter	77156
Sample Position	77
Comment 1	9056A C
Comment 2	

Anions



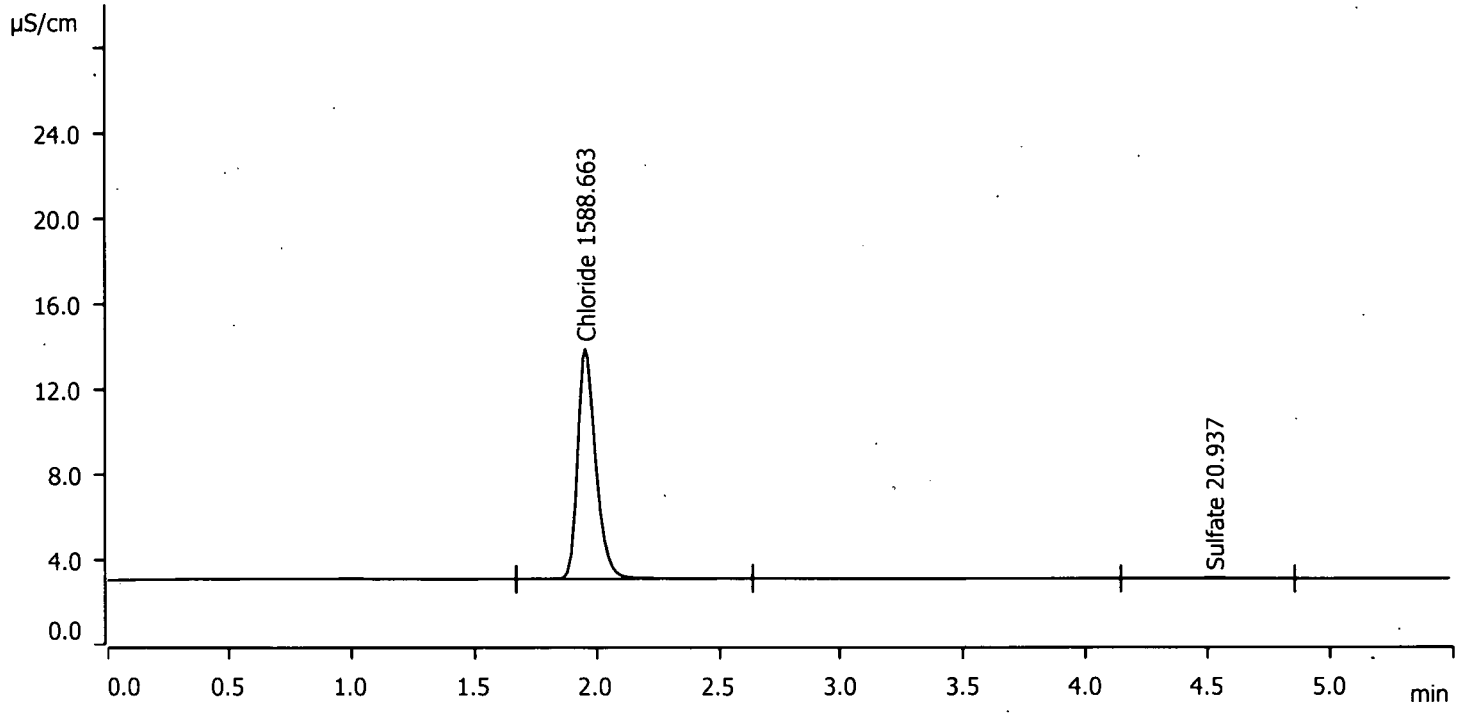
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.774	2775.677	Chloride	BB
2	4.53	0.007	43.179	Sulfate	BB

Sample data

Ident	R2401188-001
Sample type	Sample
Determination start	2024-02-27 16:58:21 UTC-5
Method	10-122723FAST
Dilution	200
Counter	77157
Sample Position	78
Comment 1	9056A C
Comment 2	

Anions



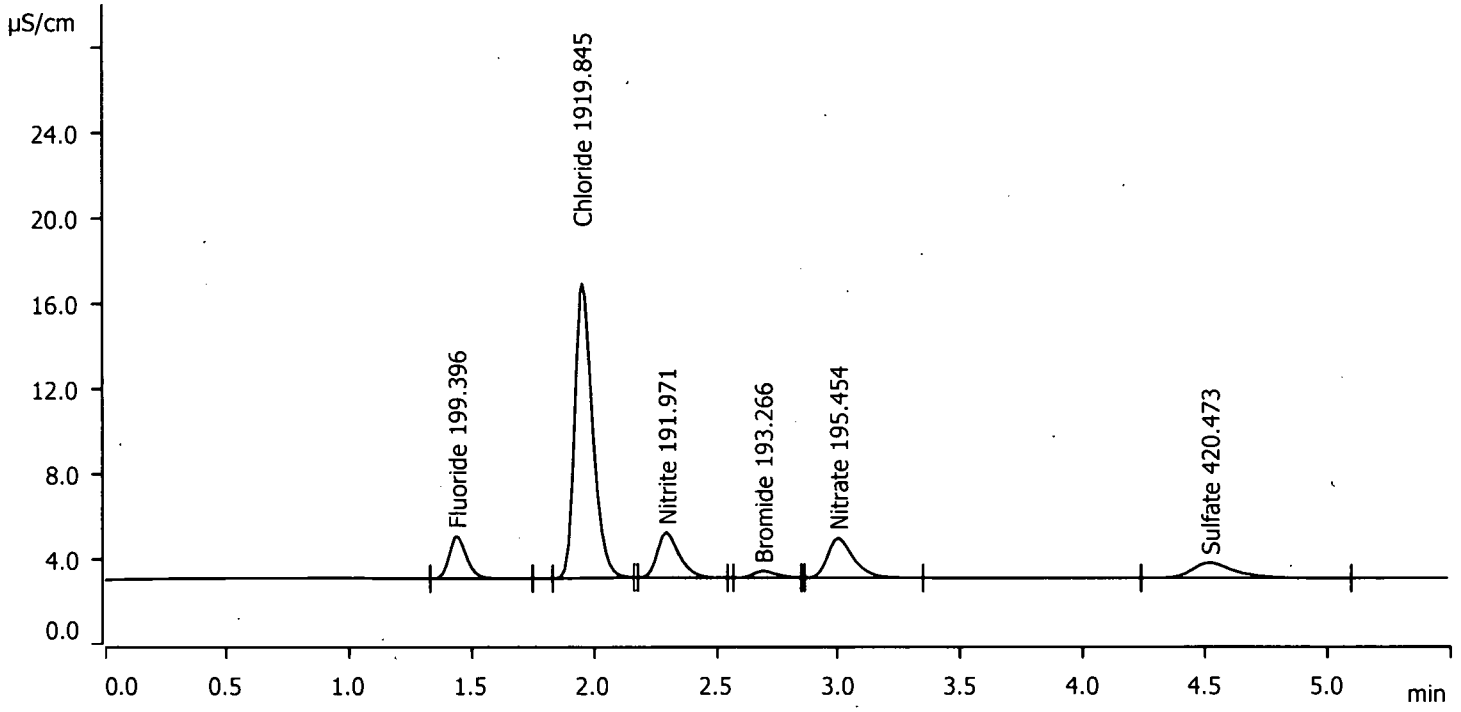
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.912	1588.663	Chloride	BB
2	4.52	0.007	20.937	Sulfate	BB

Sample data

Ident	R2401188-001 MS!
Sample type	Sample
Determination start	2024-02-27 17:05:17 UTC-5
Method	10-122723FAST
Dilution	200
Counter	77158
Sample Position	79
Comment 1	9056A C
Comment 2	

Anions



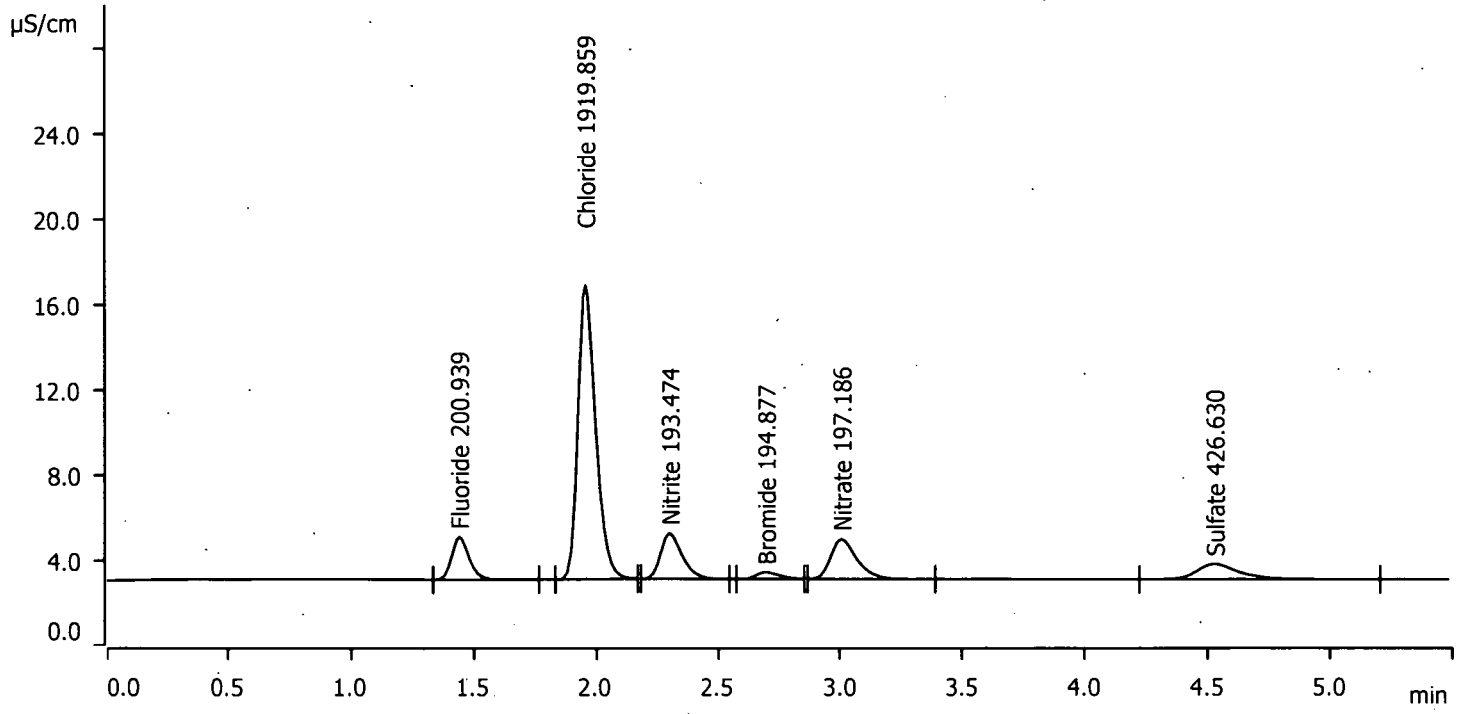
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.162	199.396	Fluoride	BB
2	1.96	1.153	1919.845	Chloride	BB
3	2.30	0.217	191.971	Nitrite	BB
4	2.69	0.035	193.266	Bromide	BB
5	3.00	0.227	195.454	Nitrate	BB
6	4.52	0.141	420.473	Sulfate	BB

Sample data

Ident	R2401188-001 MSD!
Sample type	Sample
Determination start	2024-02-27 17:12:11 UTC-5
Method	10-122723FAST
Dilution	200
Counter	77159
Sample Position	80
Comment 1	9056A C
Comment 2	

Anions



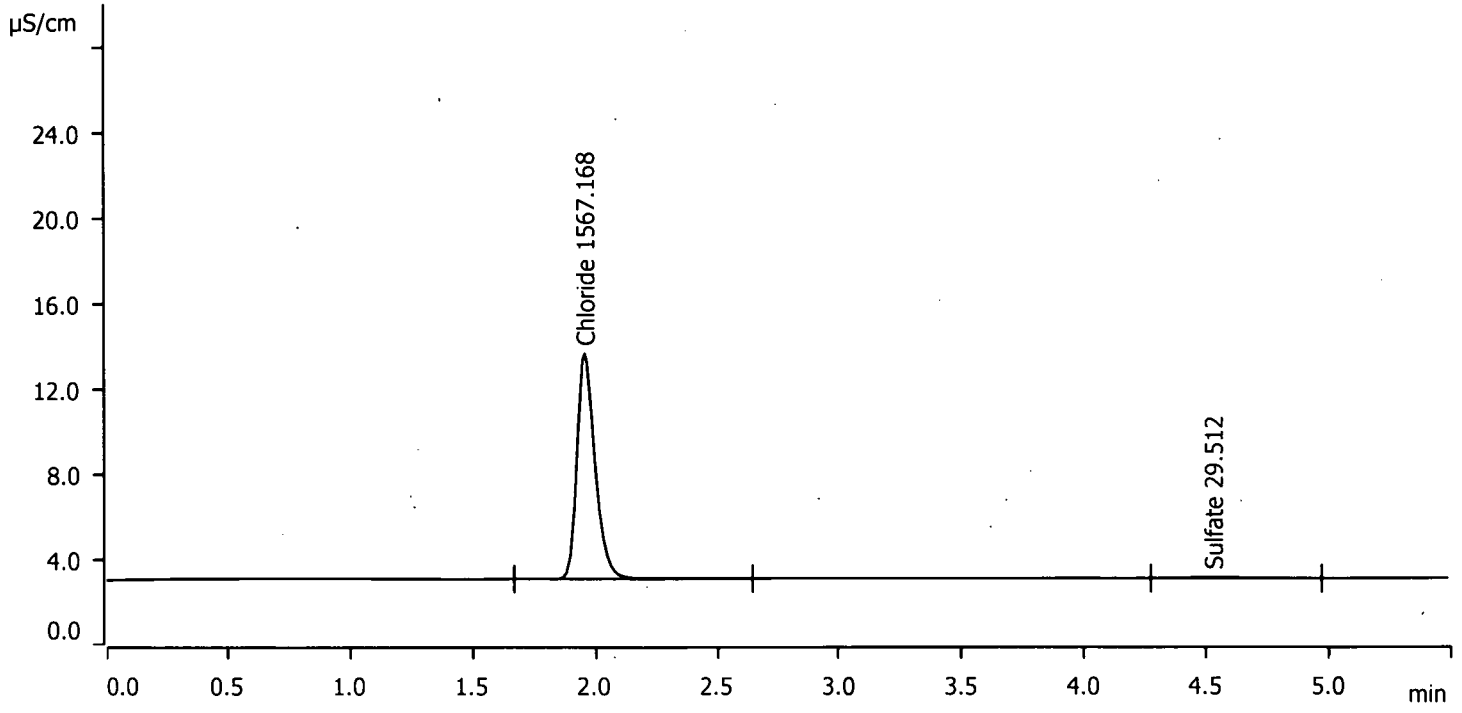
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.164	200.939	Fluoride	BB
2	1.96	1.153	1919.859	Chloride	BB
3	2.30	0.219	193.474	Nitrite	BB
4	2.70	0.035	194.877	Bromide	BB
5	3.00	0.230	197.186	Nitrate	BB
6	4.53	0.143	426.630	Sulfate	BB

Sample data

Ident	R2401188-002
Sample type	Sample
Determination start	2024-02-27 17:19:04 UTC-5
Method	10-122723FAST
Dilution	200
Counter	77160
Sample Position	81
Comment 1	9056A C
Comment 2	

Anions



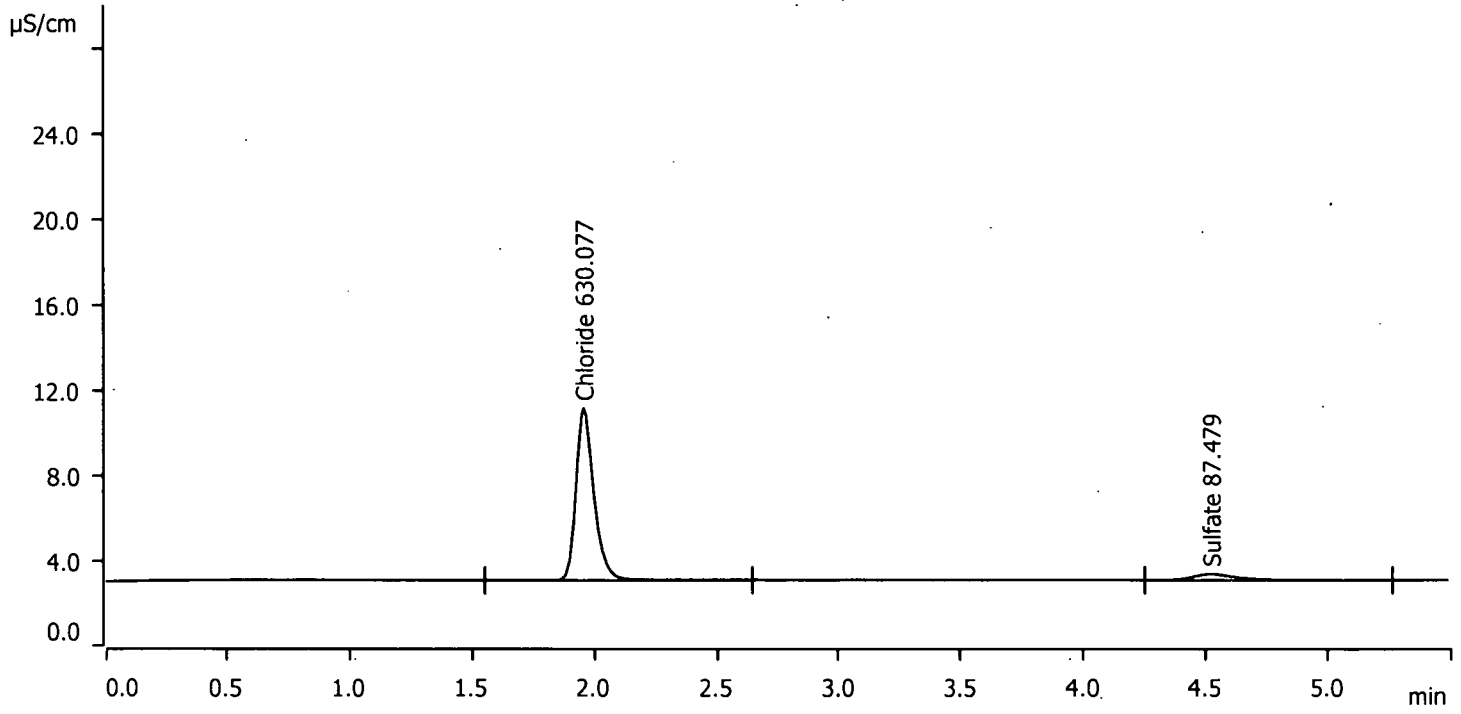
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.897	1567.168	Chloride	BB
2	4.52	0.010	29.512	Sulfate	BB

Sample data

Ident	R2401153-001
Sample type	Sample
Determination start	2024-02-27 17:25:55 UTC-5
Method	10-122723FAST
Dilution	100
Counter	77161
Sample Position	82
Comment 1	9056A C
Comment 2	

Anions



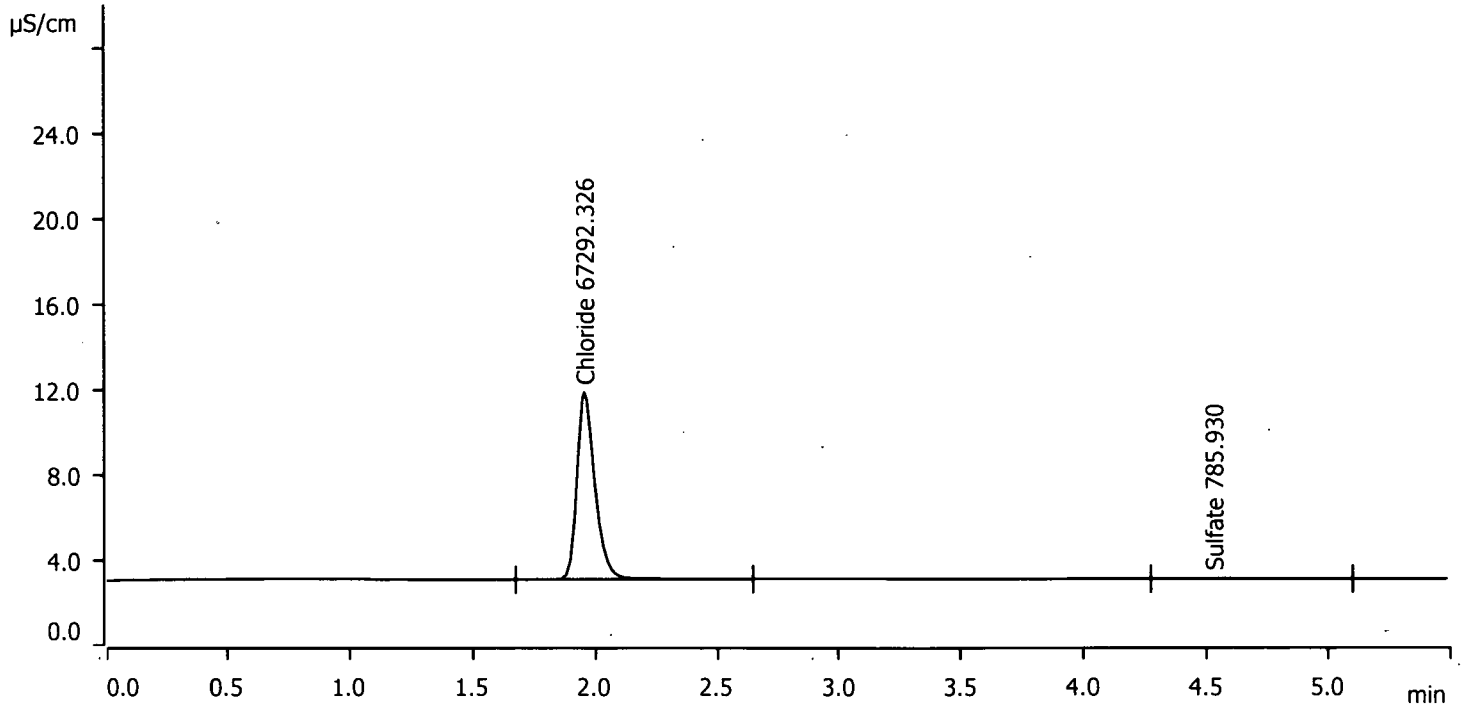
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.690	630.077	Chloride	BB
2	4.52	0.057	87.479	Sulfate	BB

Sample data

Ident	R2401153-003
Sample type	Sample
Determination start	2024-02-27 17:32:48 UTC-5
Method	10-122723FAST
Dilution	10000
Counter	77162
Sample Position	83
Comment 1	9056A C
Comment 2	

Anions



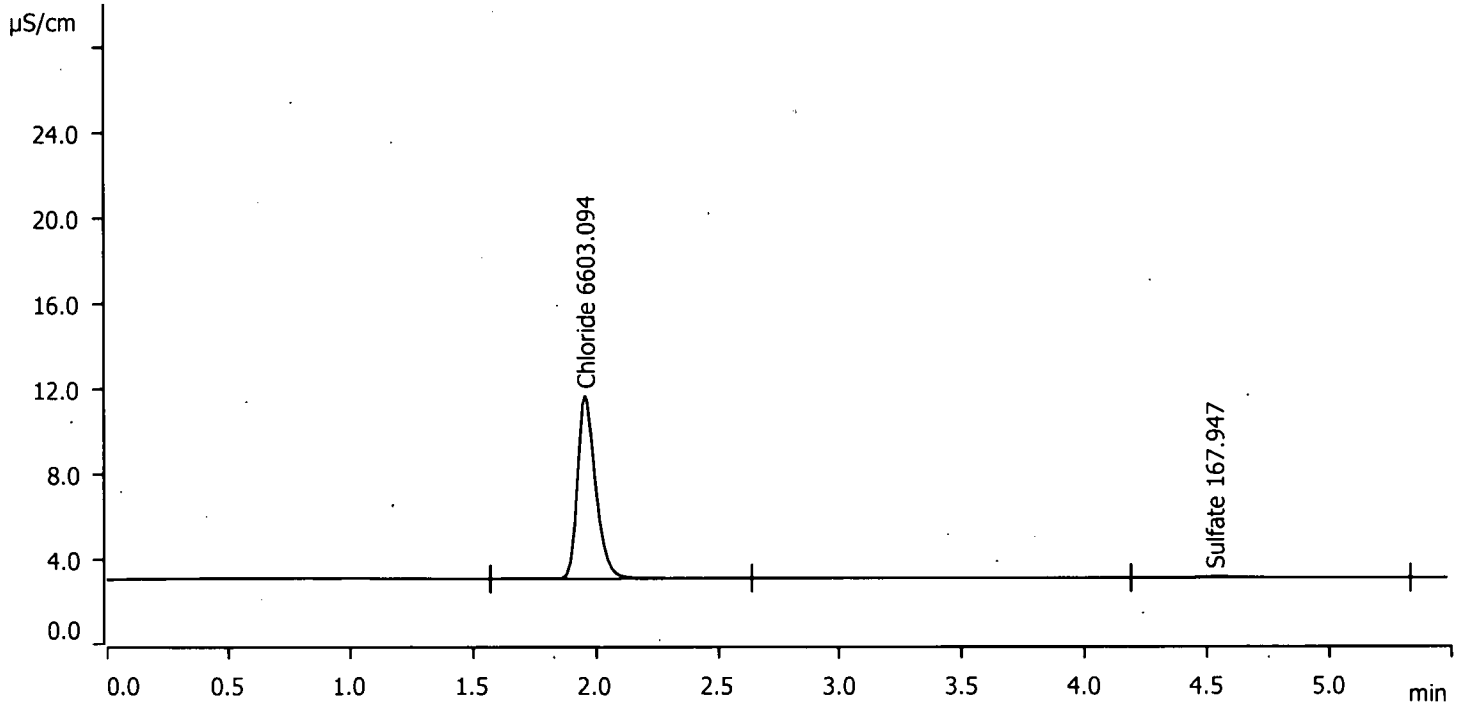
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.746	67292.326	Chloride	BB
2	4.53	0.005	785.930	Sulfate	BB

Sample data

Ident	R2401372-001
Sample type	Sample
Determination start	2024-02-27 17:39:40 UTC-5
Method	10-122723FAST
Dilution	1000
Counter	77163
Sample Position	84
Comment 1	9056A C
Comment 2	

Anions



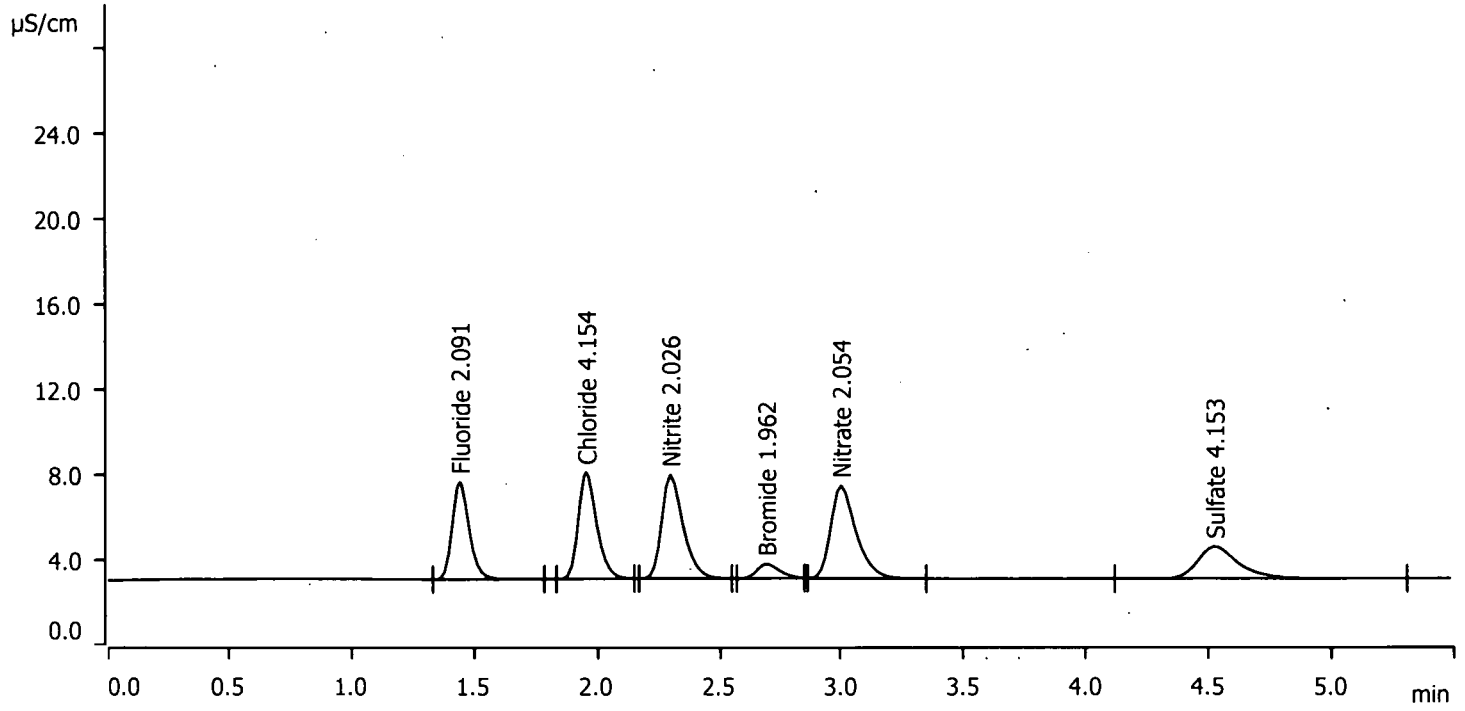
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.729	6603.094	Chloride	BB
2	4.53	0.011	167.947	Sulfate	BBI

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-02-27 17:46:36 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77164
Sample Position	85
Comment 1	300.0/9056A
Comment 2	

Anions



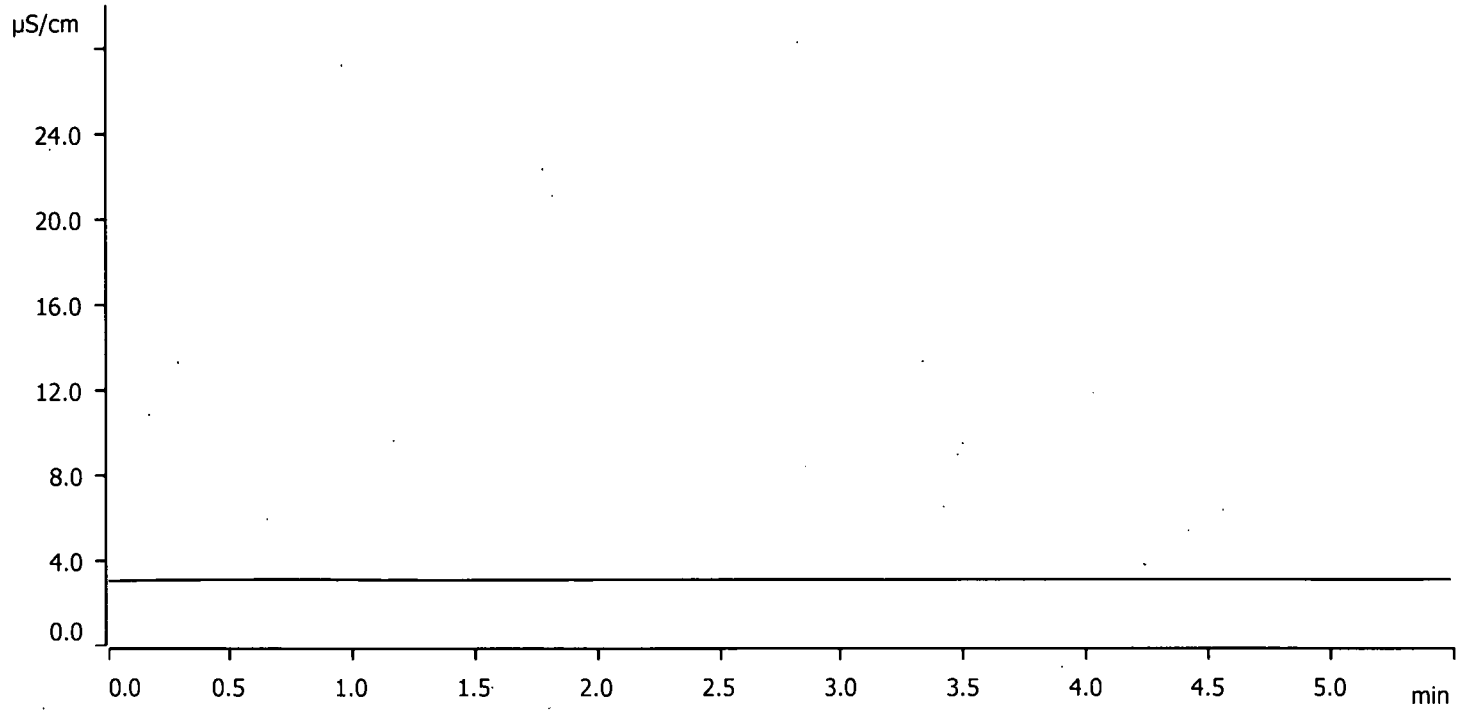
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.362	2.091	Fluoride	BB
2	1.96	0.426	4.154	Chloride	BB
3	2.30	0.488	2.026	Nitrite	BB
4	2.69	0.073	1.962	Bromide	BB
5	3.00	0.517	2.054	Nitrate	BB
6	4.52	0.290	4.153	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-02-27 17:53:30 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77165
Sample Position	86
Comment 1	300.0/9056A
Comment 2	

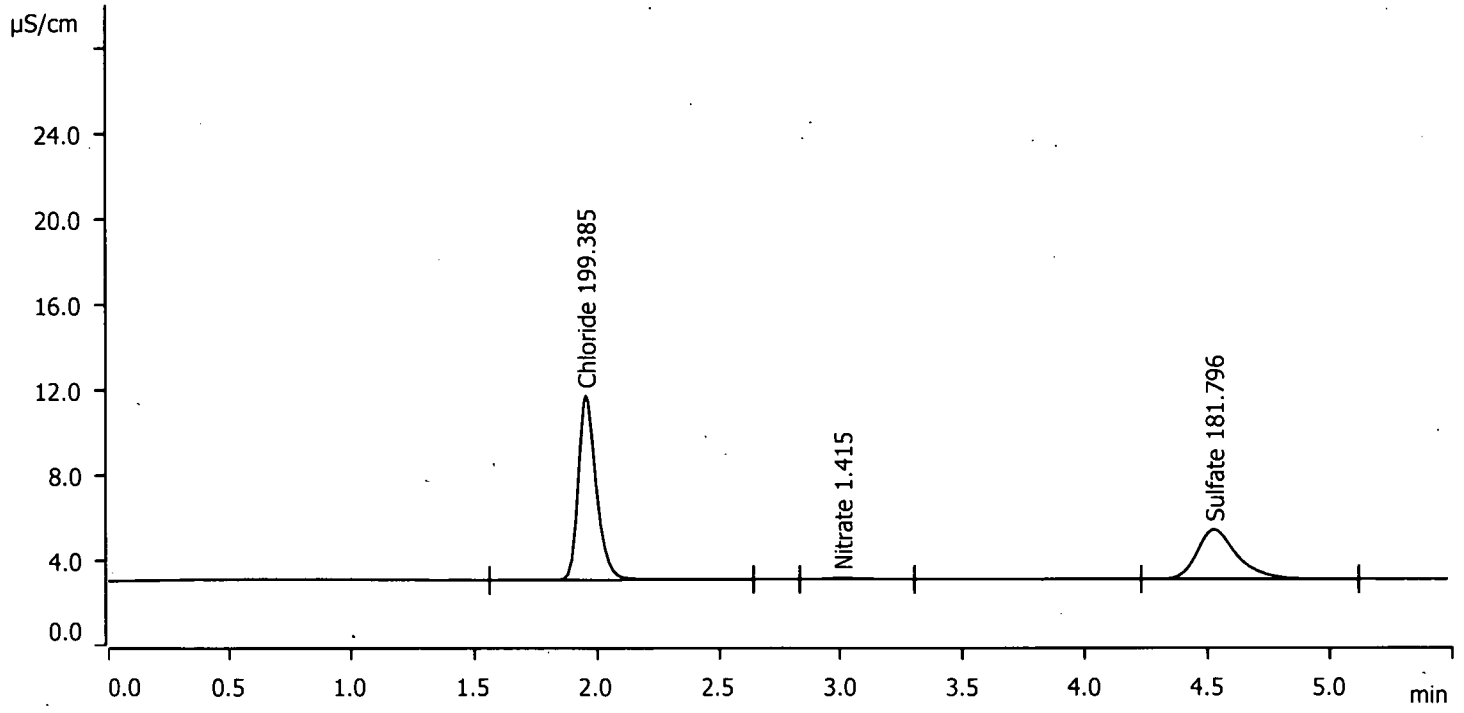
Anions



Sample data

Ident	R2401415-001
Sample type	Sample
Determination start	2024-02-27 18:00:21 UTC-5
Method	10-122723FAST
Dilution	30
Counter	77166
Sample Position	87
Comment 1	9056A C
Comment 2	

Anions



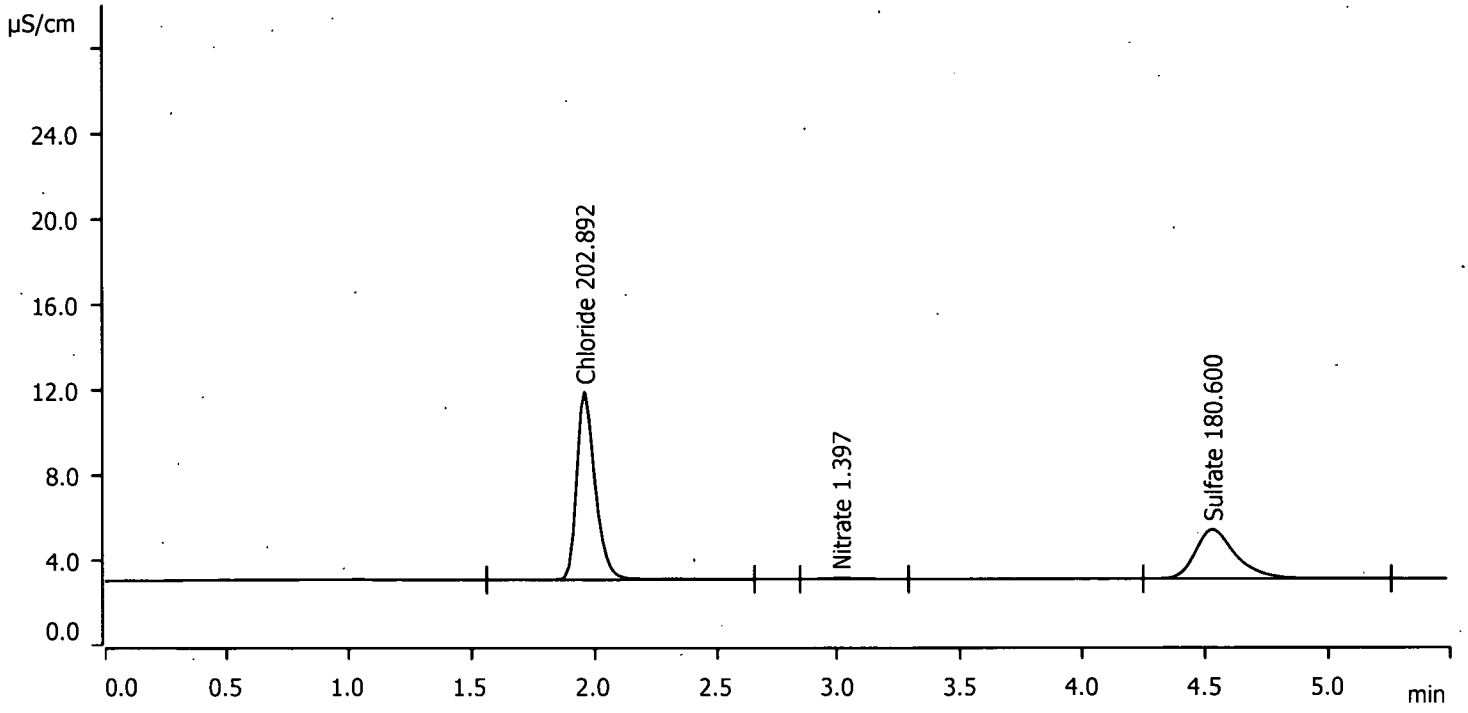
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.735	199.385	Chloride	BB
2	3.01	0.007	1.415	Nitrate	BB
3	4.52	0.439	181.796	Sulfate	BB

Sample data

Ident	R2401415-002
Sample type	Sample
Determination start	2024-02-27 18:07:13 UTC-5
Method	10-122723FAST
Dilution	30
Counter	77167
Sample Position	88
Comment 1	9056A C
Comment 2	

Anions



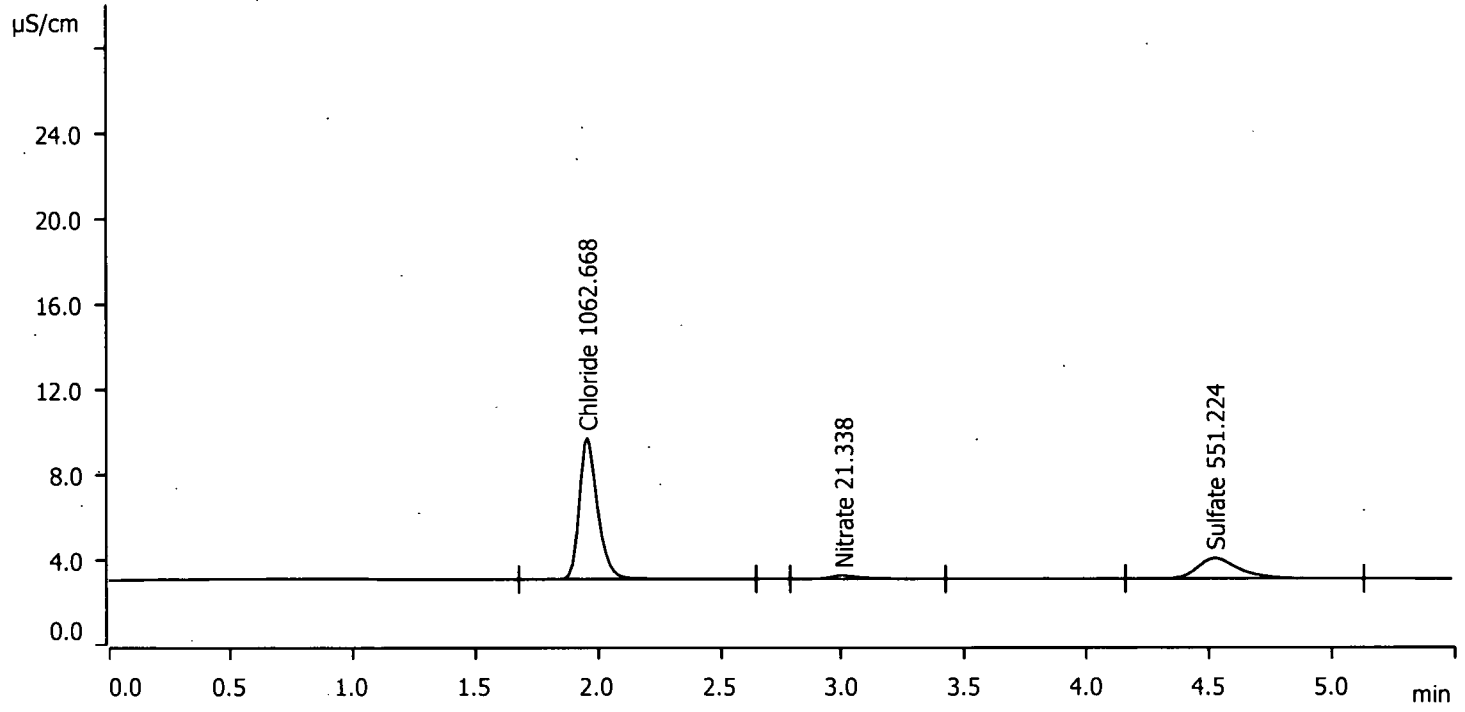
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.97	0.750	202.892	Chloride	BB
2	3.01	0.007	1.397	Nitrate	BB
3	4.53	0.436	180.600	Sulfate	BB

Sample data

Ident	R2401469-001
Sample type	Sample
Determination start	2024-02-27 18:14:05 UTC-5
Method	10-122723FAST
Dilution	200
Counter	77168
Sample Position	89
Comment 1	9056A CS
Comment 2	

Anions



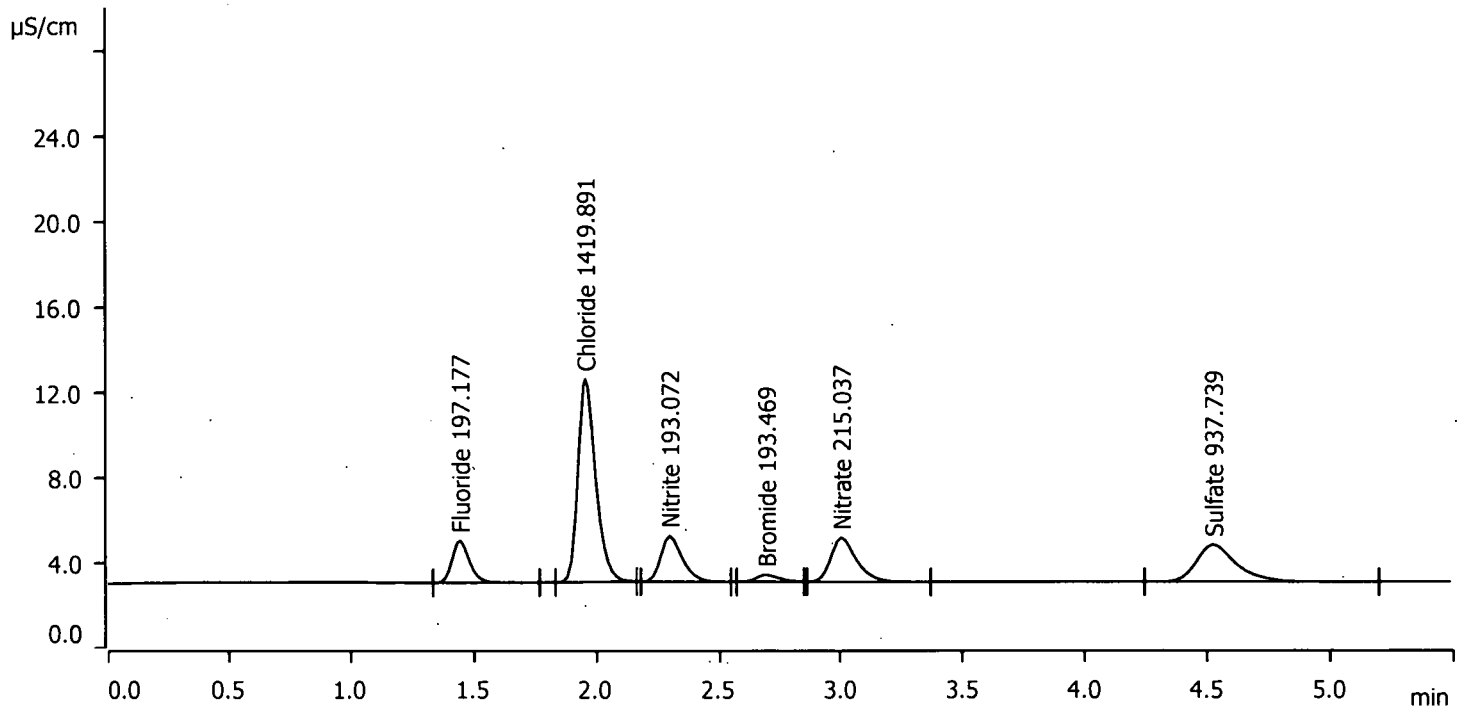
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.565	1062.668	Chloride	BB
2	3.01	0.020	21.338	Nitrate	BB
3	4.52	0.187	551.224	Sulfate	BB

Sample data

Ident	R2401469-001 MS!
Sample type	Sample
Determination start	2024-02-27 18:20:58 UTC-5
Method	10-122723FAST
Dilution	200
Counter	77169
Sample Position	90
Comment 1	9056A CS
Comment 2	

Anions



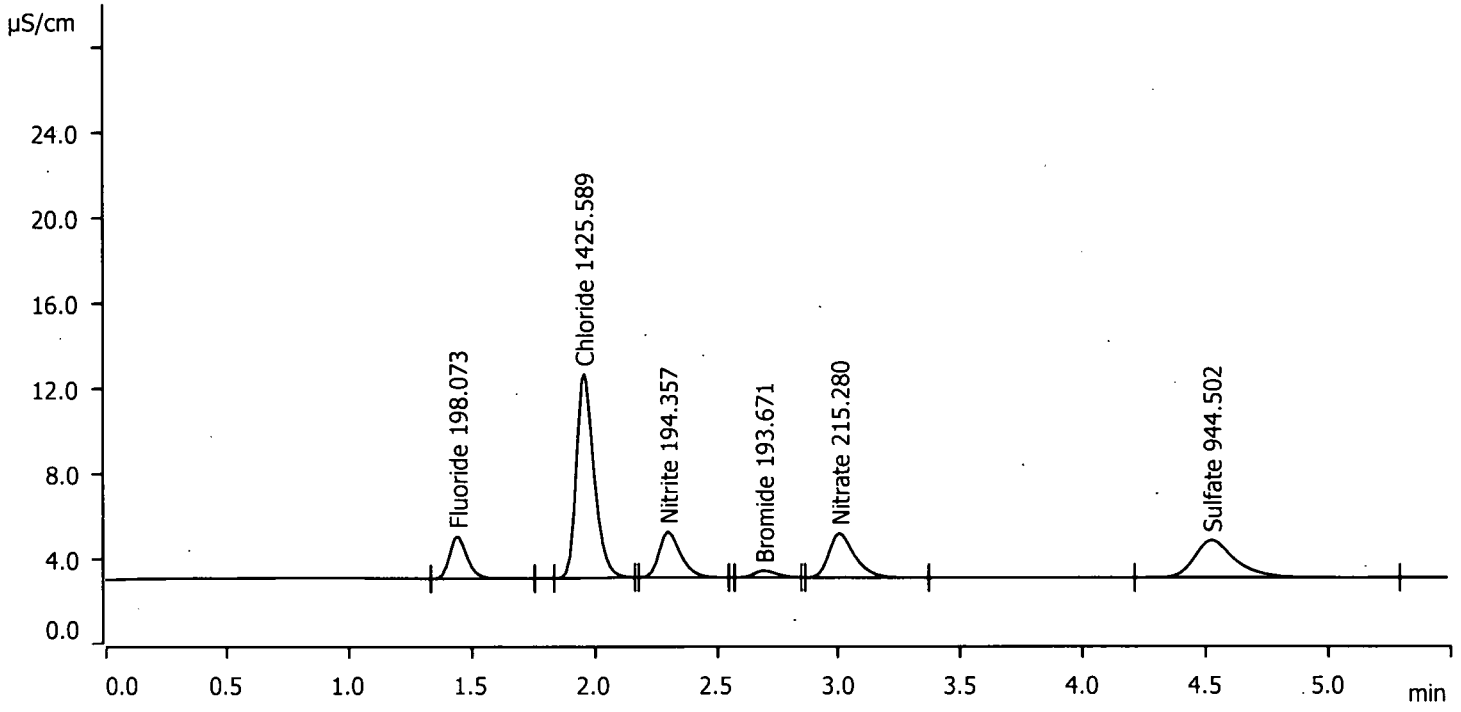
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.160	197.177	Fluoride	BB
2	1.96	0.795	1419.891	Chloride	BB
3	2.30	0.219	193.072	Nitrite	BB
4	2.70	0.035	193.469	Bromide	BB
5	3.00	0.252	215.037	Nitrate	BB
6	4.52	0.331	937.739	Sulfate	BB

Sample data

Ident	R2401469-001 MSD!
Sample type	Sample
Determination start	2024-02-27 18:27:52 UTC-5
Method	10-122723FAST
Dilution	200
Counter	77170
Sample Position	91
Comment 1	9056A CS
Comment 2	

Anions



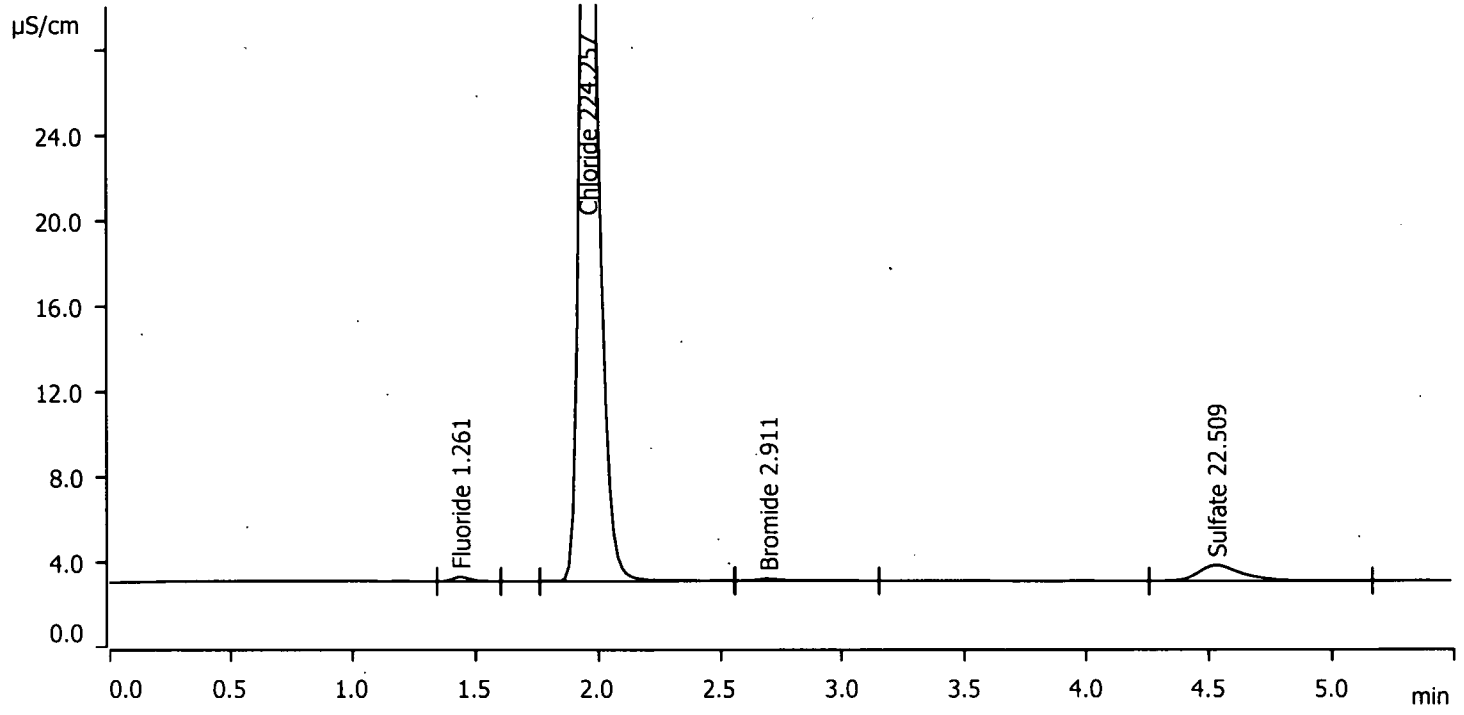
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.161	198.073	Fluoride	BB
2	1.96	0.799	1425.589	Chloride	BB
3	2.30	0.220	194.357	Nitrite	BB
4	2.70	0.035	193.671	Bromide	BB
5	3.00	0.253	215.280	Nitrate	BB
6	4.52	0.334	944.502	Sulfate	BB

Sample data

Ident	R2401485-001
Sample type	Sample
Determination start	2024-02-27 18:34:46 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77171
Sample Position	92
Comment 1	9056A S
Comment 2	

Anions



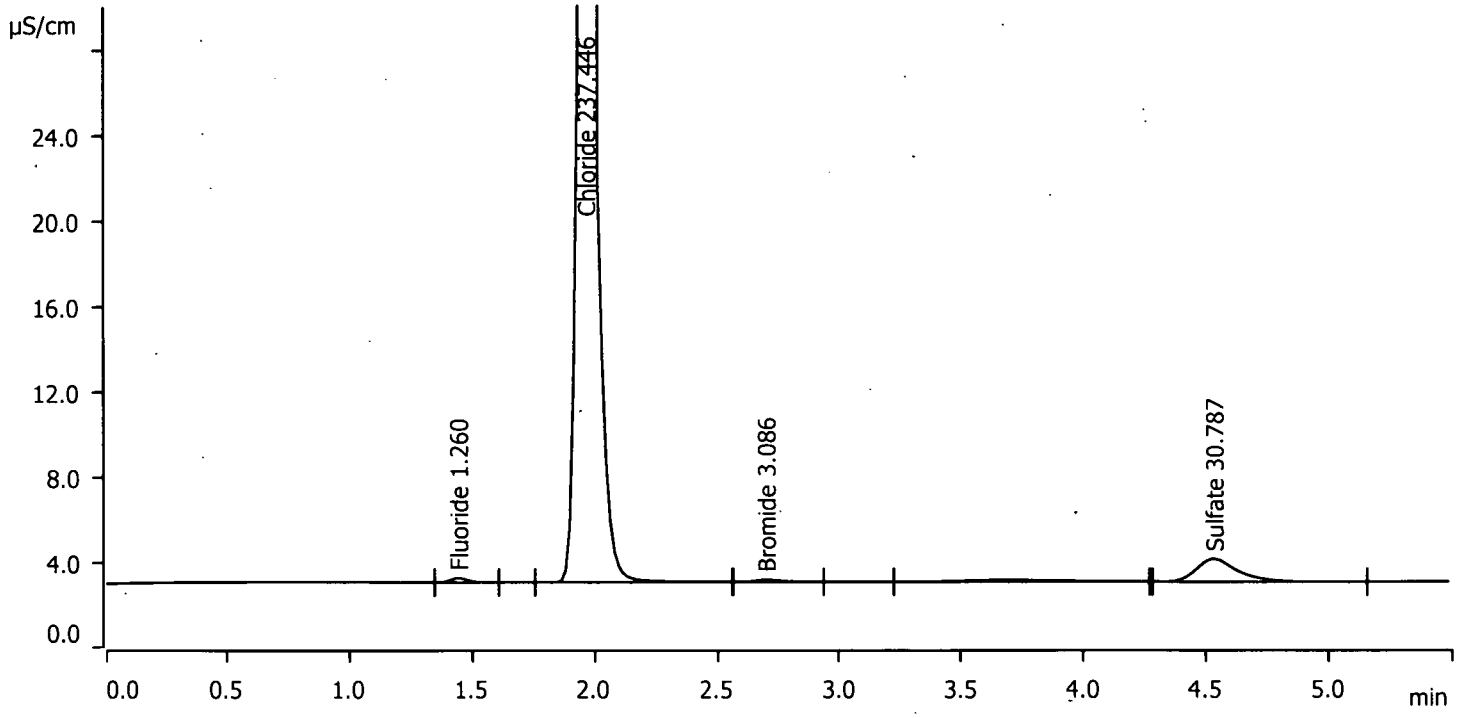
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.017	1.261	Fluoride	BB
2	1.96	3.609	224.257	Chloride	BB
3	2.70	0.010	2.911	Bromide	BBI
4	4.53	0.151	22.509	Sulfate	BB

Sample data

Ident	R2401485-002
Sample type	Sample
Determination start	2024-02-27 18:41:39 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77172
Sample Position	93
Comment 1	9056A S
Comment 2	

Anions



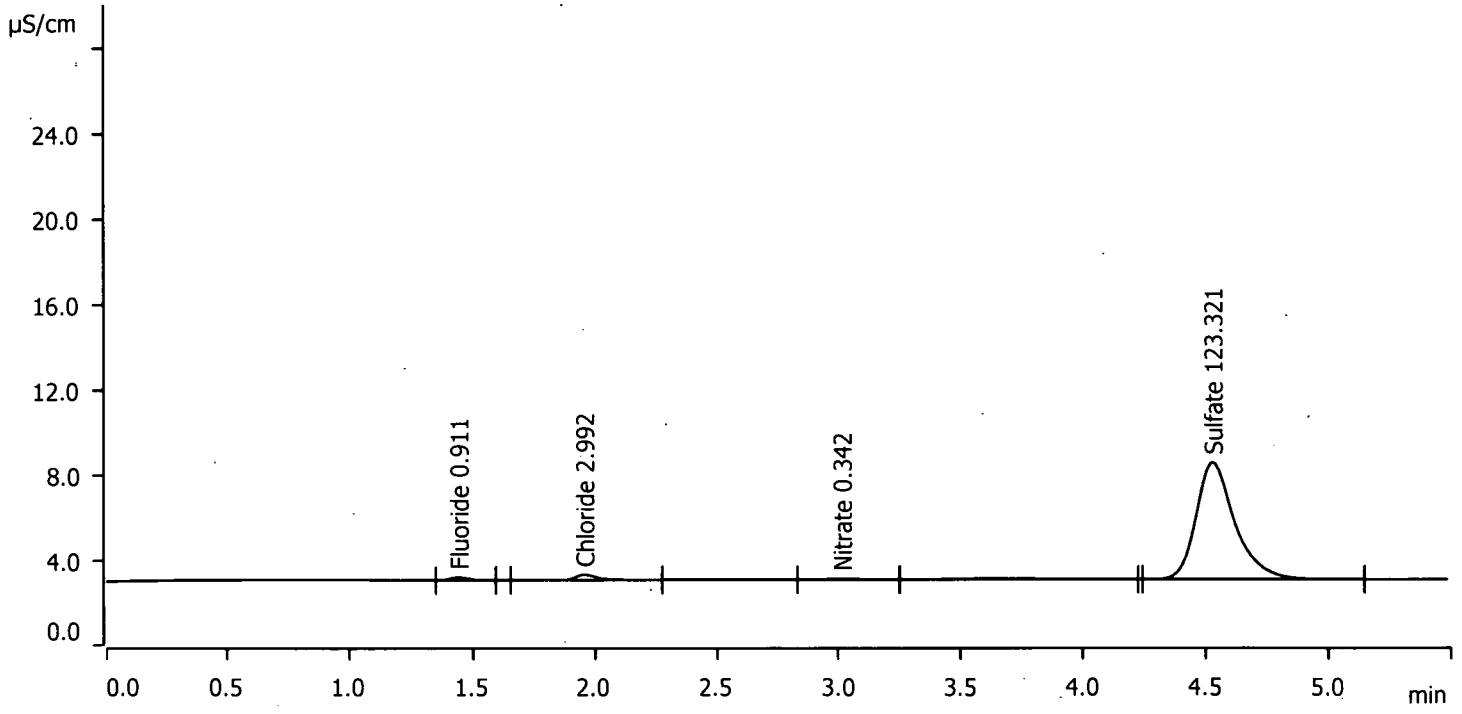
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.017	1.260	Fluoride	BB
2	1.97	3.920	237.446	Chloride	BB
3	2.70	0.011	3.086	Bromide	BB
5	4.53	0.210	30.787	Sulfate	BB

Sample data

Ident	R2401485-003
Sample type	Sample
Determination start	2024-02-27 18:48:34 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77173
Sample Position	94
Comment 1	9056A C
Comment 2	

Anions



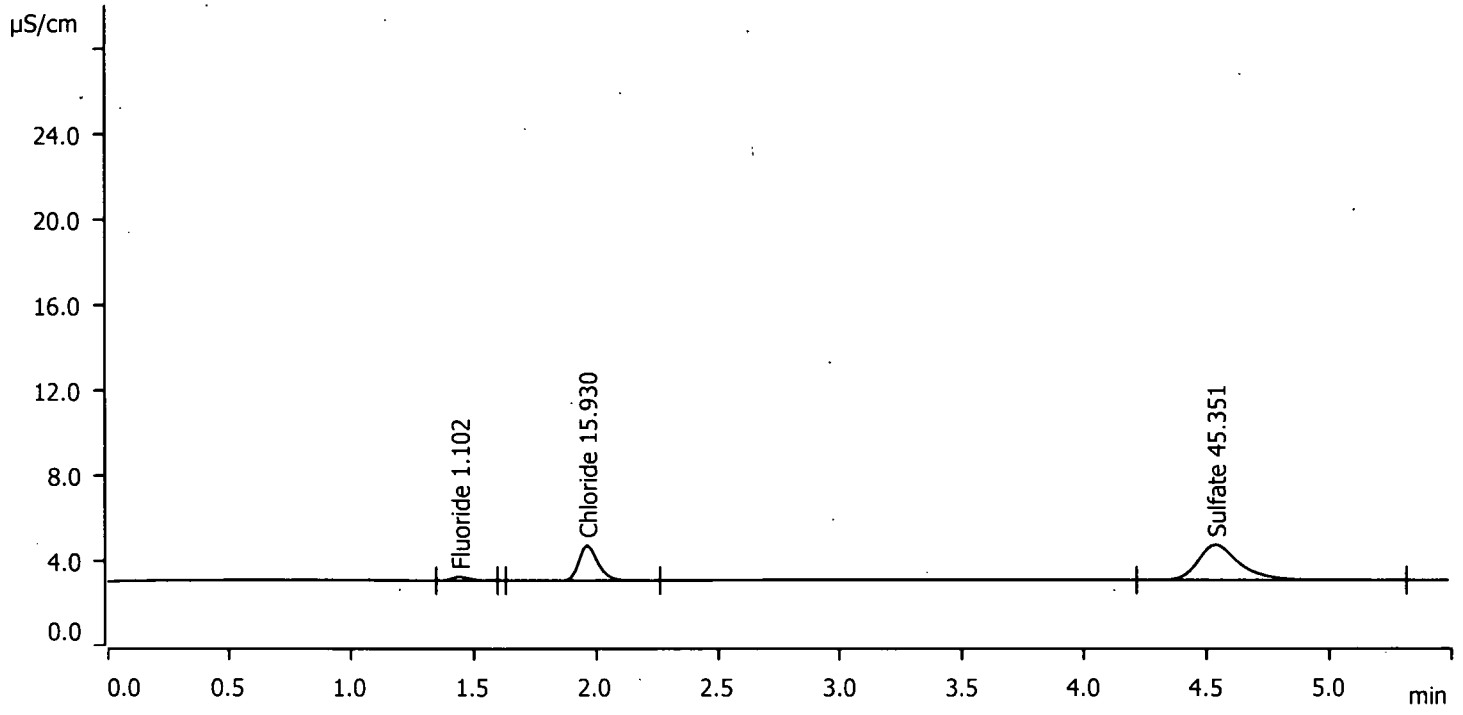
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.011	0.911	Fluoride	BB
2	1.96	0.024	2.992	Chloride	BB
3	3.01	0.004	0.342	Nitrate	BB
5	4.53	1.003	123.321	Sulfate	BB

Sample data

Ident	R2401485-004
Sample type	Sample
Determination start	2024-02-27 18:55:28 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77174
Sample Position	95
Comment 1	9056A CS
Comment 2	

Anions



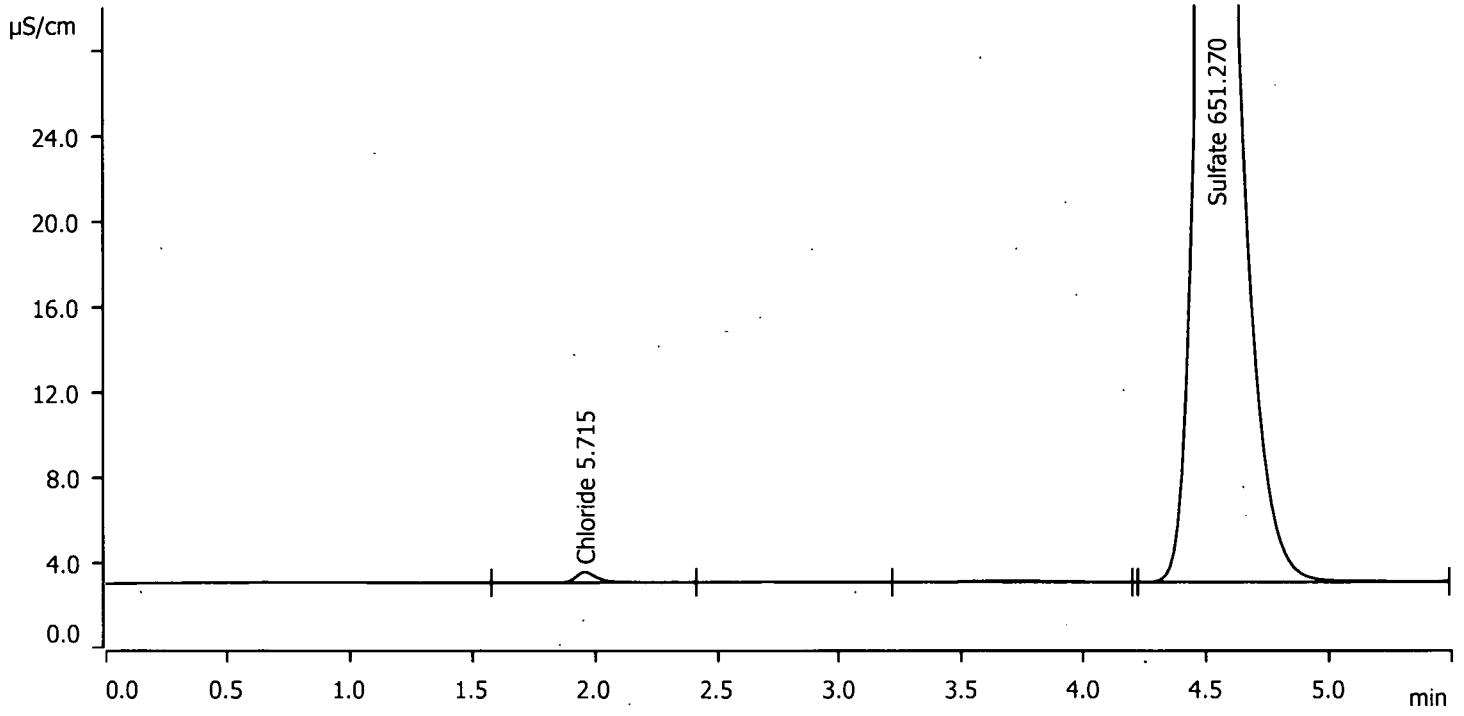
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.014	1.102	Fluoride	BB
2	1.97	0.149	15.930	Chloride	BB
3	4.53	0.319	45.351	Sulfate	BB

Sample data

Ident	R2401485-005
Sample type	Sample
Determination start	2024-02-27 19:02:20 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77175
Sample Position	96
Comment 1	9056A C
Comment 2	

Anions



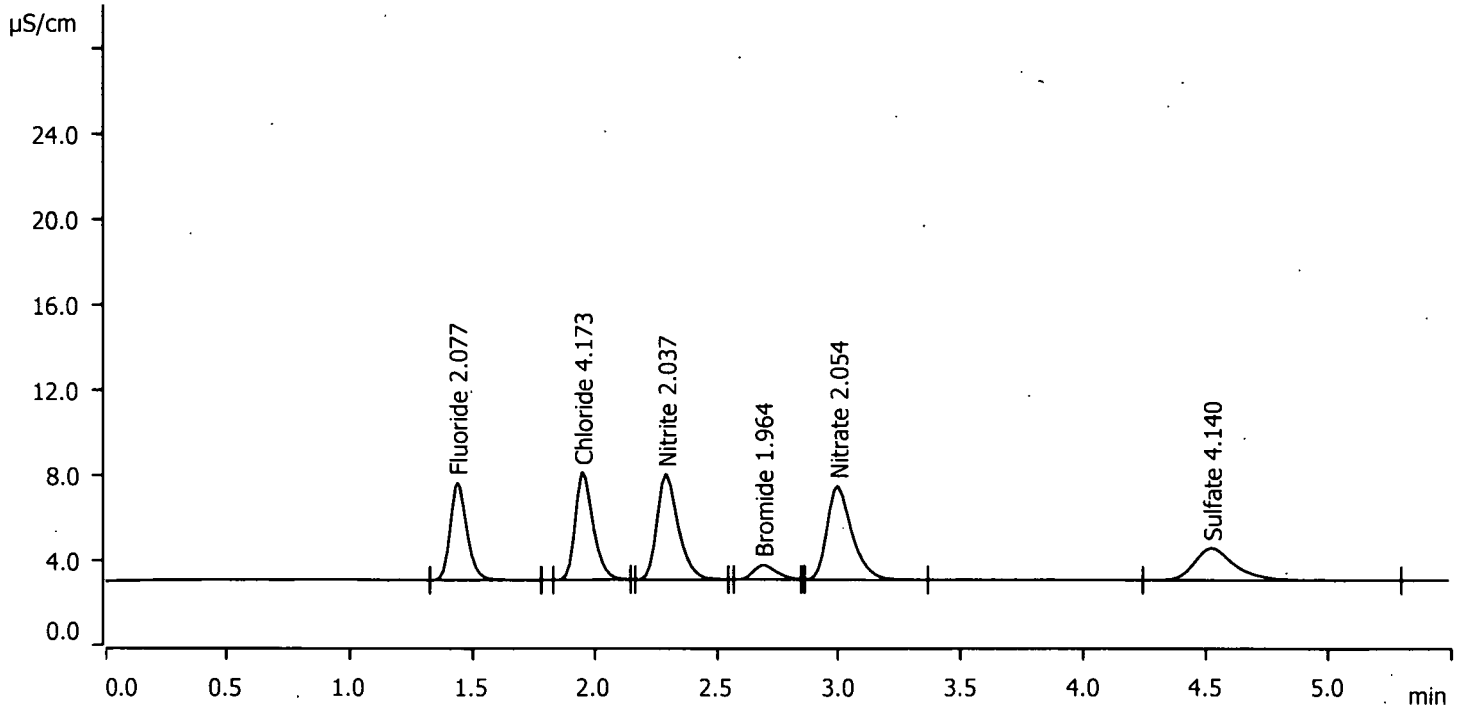
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.050	5.715	Chloride	BB
3	4.54	10.142	651.270	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-02-27 19:09:12 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77176
Sample Position	97
Comment 1	300.0/9056A
Comment 2	

Anions



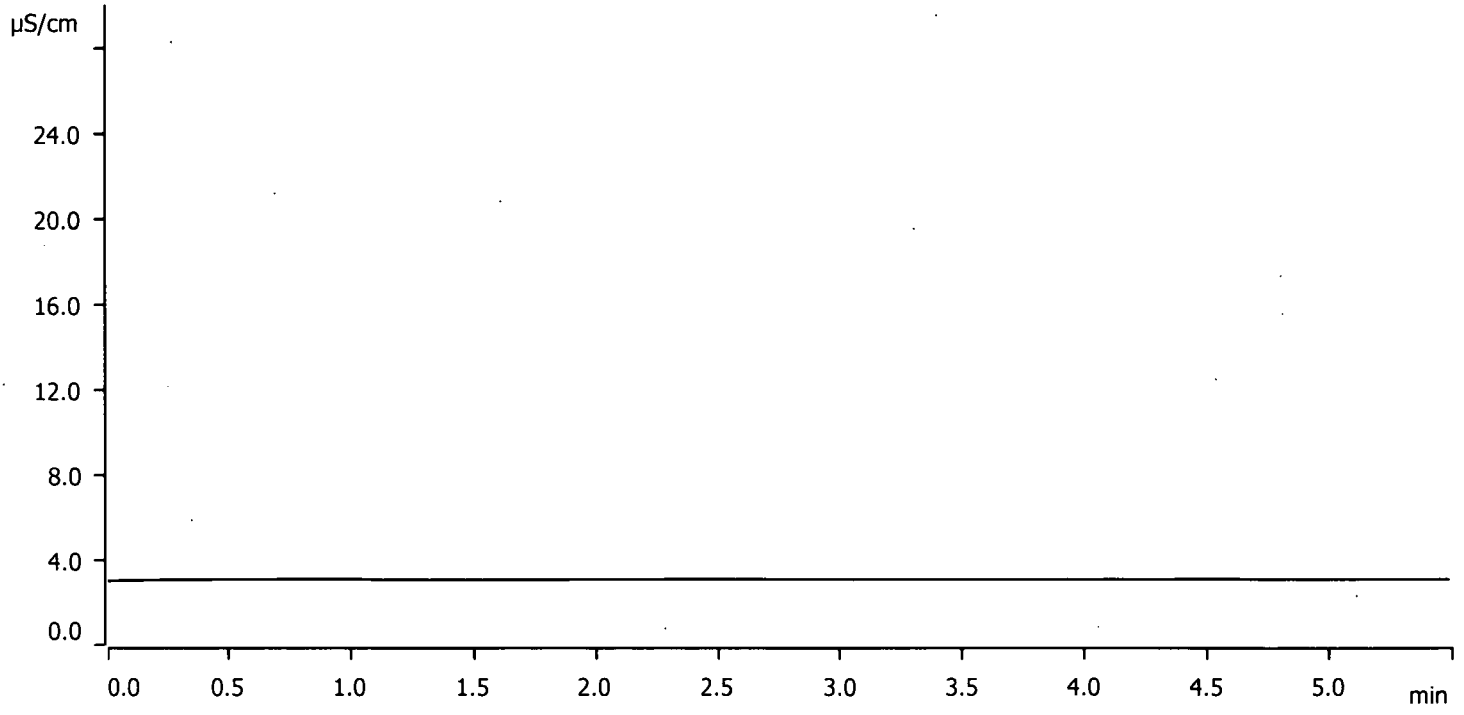
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.359	2.077	Fluoride	BB
2	1.96	0.428	4.173	Chloride	BB
3	2.30	0.491	2.037	Nitrite	BB
4	2.69	0.073	1.964	Bromide	BB
5	3.00	0.517	2.054	Nitrate	BB
6	4.52	0.289	4.140	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-02-27 19:16:06 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77177
Sample Position	98
Comment 1	300.0/9056A
Comment 2	

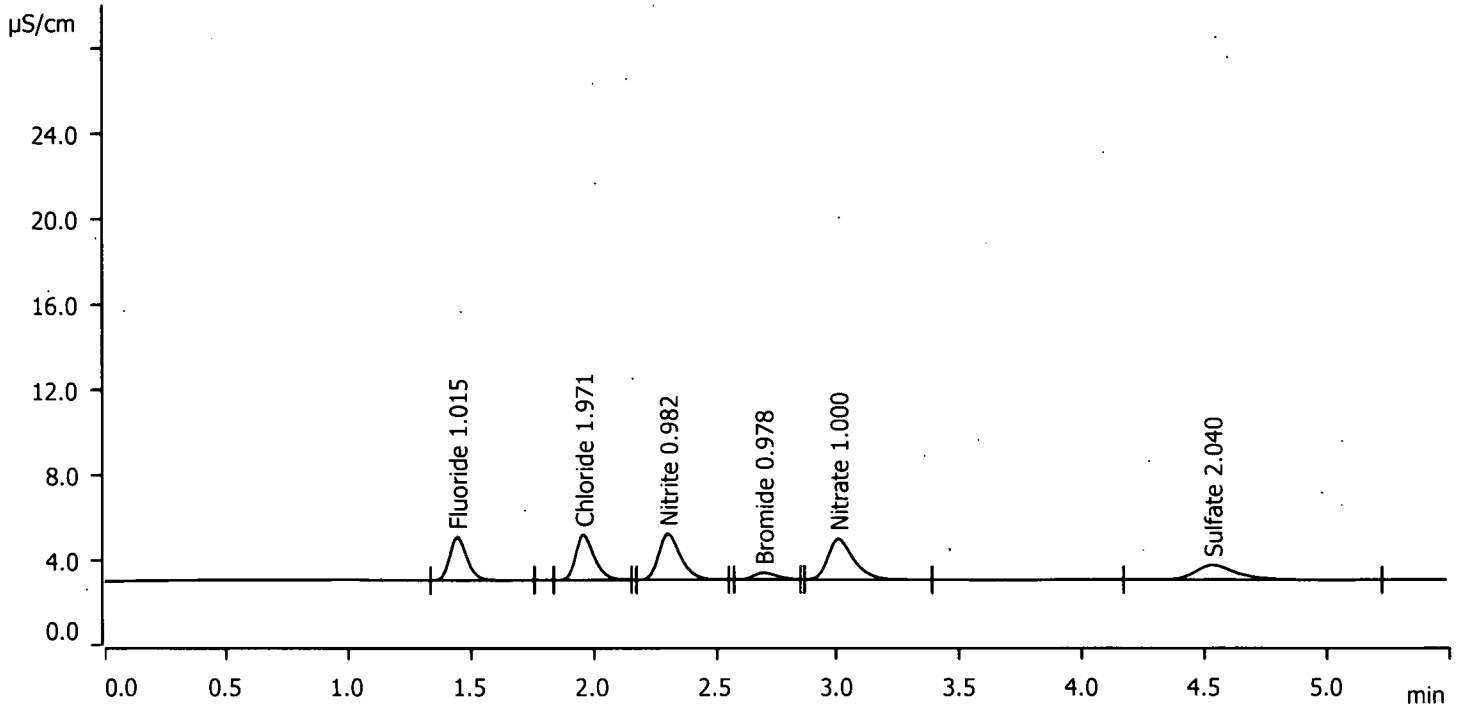
Anions



Sample data

Ident	LCS
Sample type	Check standard 2
Determination start	2024-02-27 19:22:57 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77178
Sample Position	99
Comment 1	300.0/9056A
Comment 2	

Anions



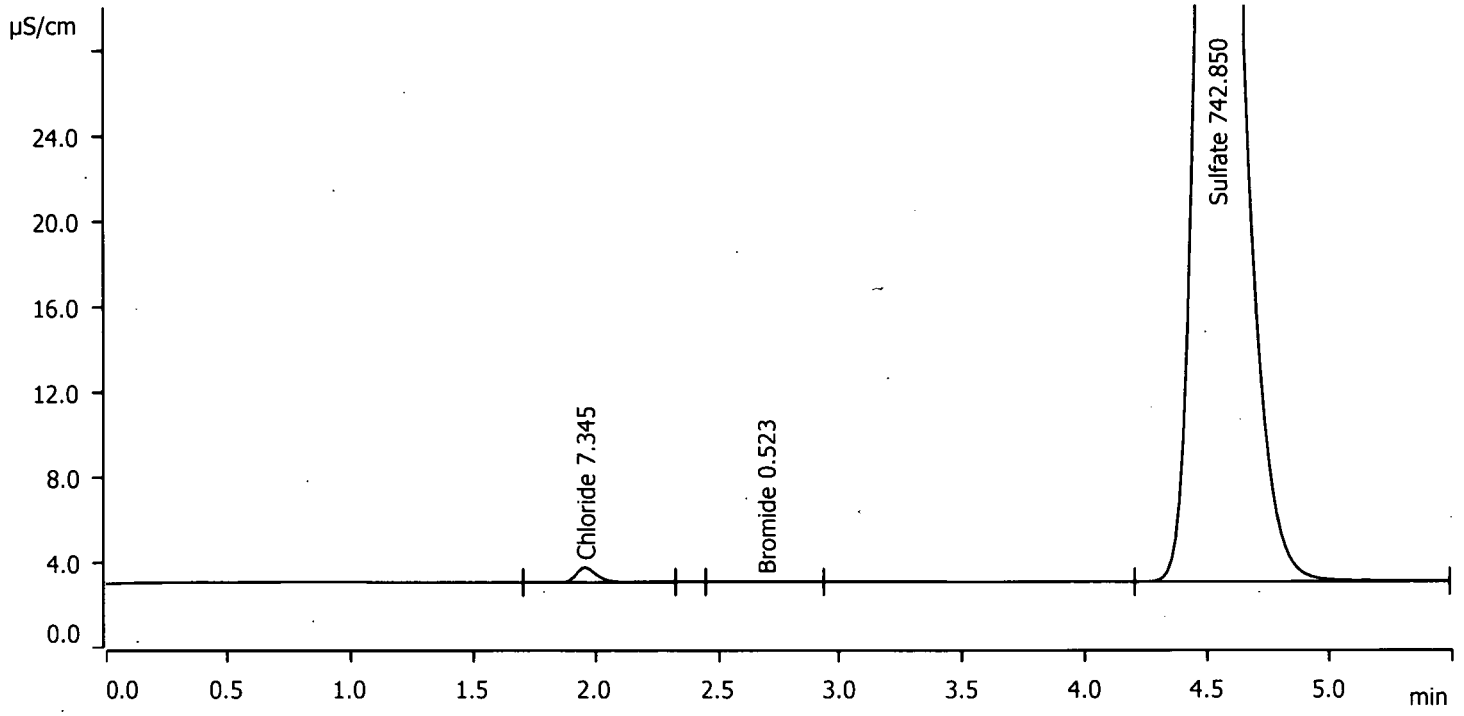
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.165	1.015	Fluoride	BB
2	1.96	0.187	1.971	Chloride	BB
3	2.31	0.222	0.982	Nitrite	BB
4	2.70	0.035	0.978	Bromide	BB
5	3.01	0.233	1.000	Nitrate	BB
6	4.53	0.137	2.040	Sulfate	BB

Sample data

Ident	R2401485-006
Sample type	Sample
Determination start	2024-02-27 19:29:50 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77179
Sample Position	100
Comment 1	9056A C
Comment 2	

Anions



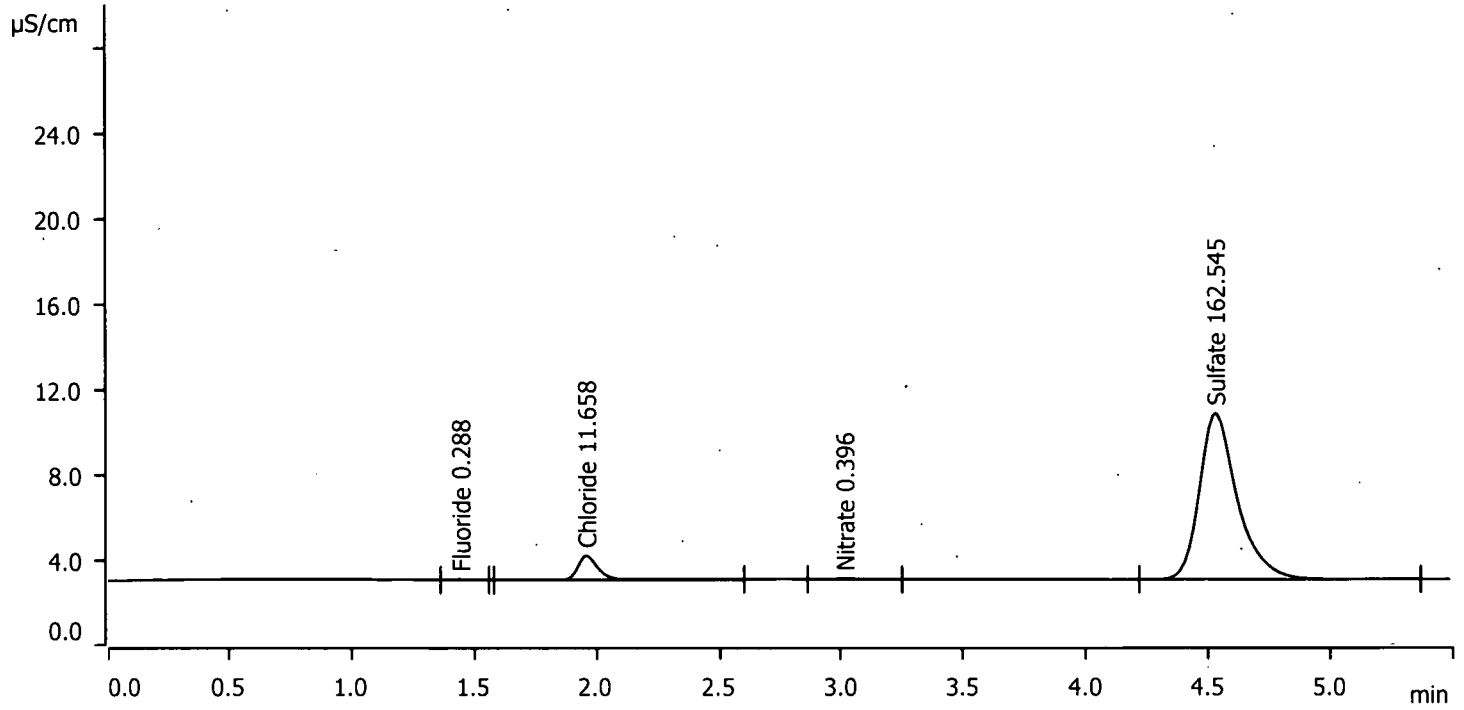
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.065	7.345	Chloride	BB
2	2.70	0.002	0.523	Bromide	BB
3	4.54	12.527	742.850	Sulfate	BB

Sample data

Ident	R2401485-007
Sample type	Sample
Determination start	2024-02-27 19:36:43 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77180
Sample Position	101
Comment 1	9056A C
Comment 2	

Anions



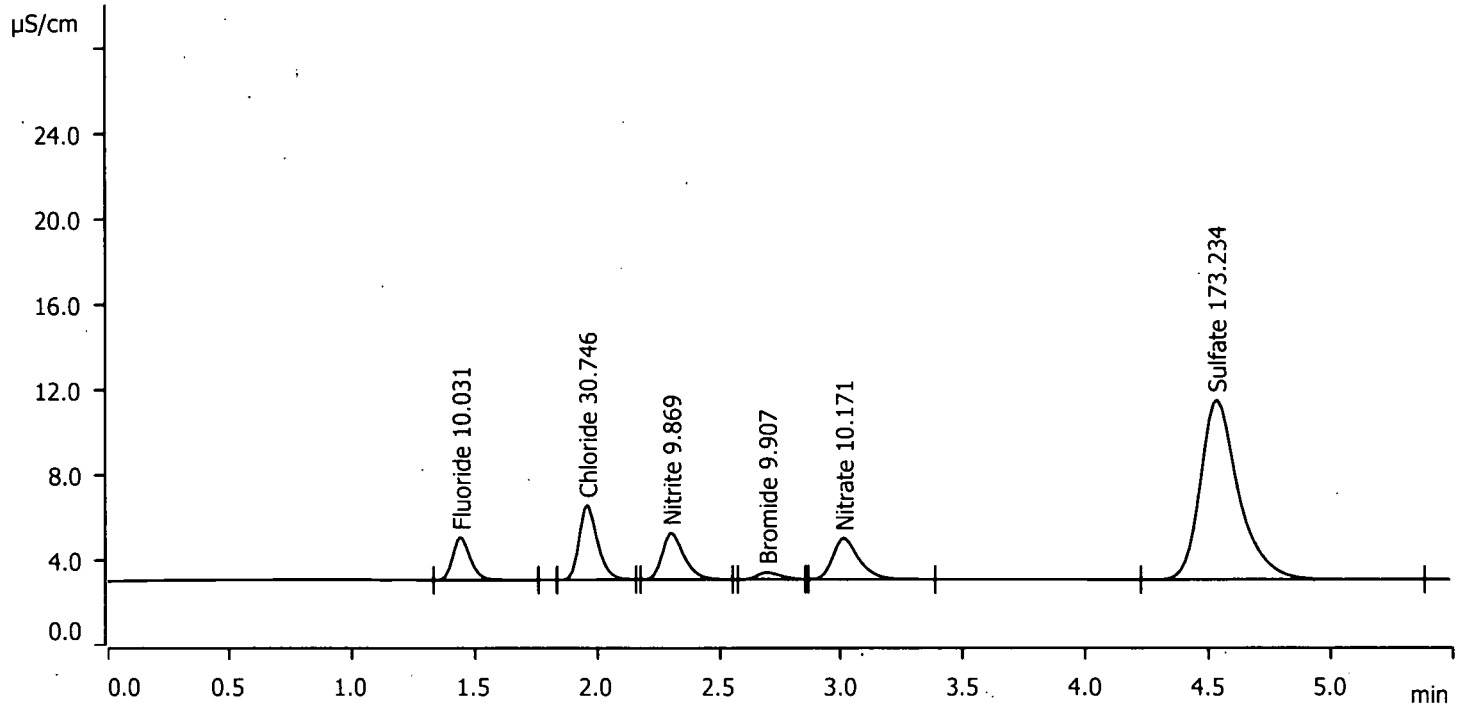
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.002	0.288	Fluoride	BB
2	1.96	0.106	11.658	Chloride	BB
3	3.01	0.005	0.396	Nitrate	BB
4	4.53	1.412	162.545	Sulfate	BB

Sample data

Ident	R2401485-007 MS
Sample type	Sample
Determination start	2024-02-27 19:43:35 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77181
Sample Position	102
Comment 1	9056A C
Comment 2	

Anions



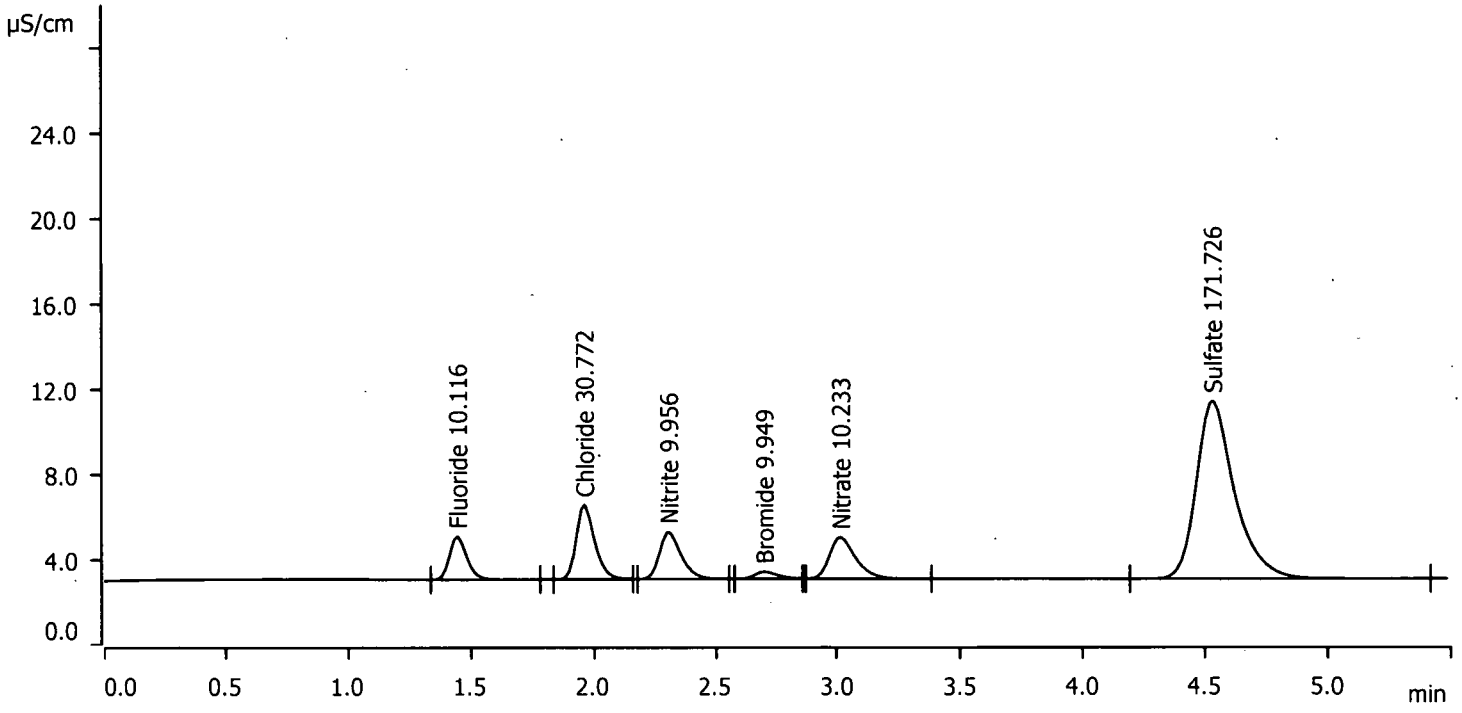
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.163	10.031	Fluoride	BB
2	1.96	0.304	30.746	Chloride	BB
3	2.31	0.224	9.869	Nitrite	BB
4	2.70	0.036	9.907	Bromide	BB
5	3.01	0.238	10.171	Nitrate	BB
6	4.53	1.530	173.234	Sulfate	BB

Sample data

Ident	R2401485-007 MSD
Sample type	Sample
Determination start	2024-02-27 19:50:28 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77182
Sample Position	103
Comment 1	9056A C
Comment 2	

Anions



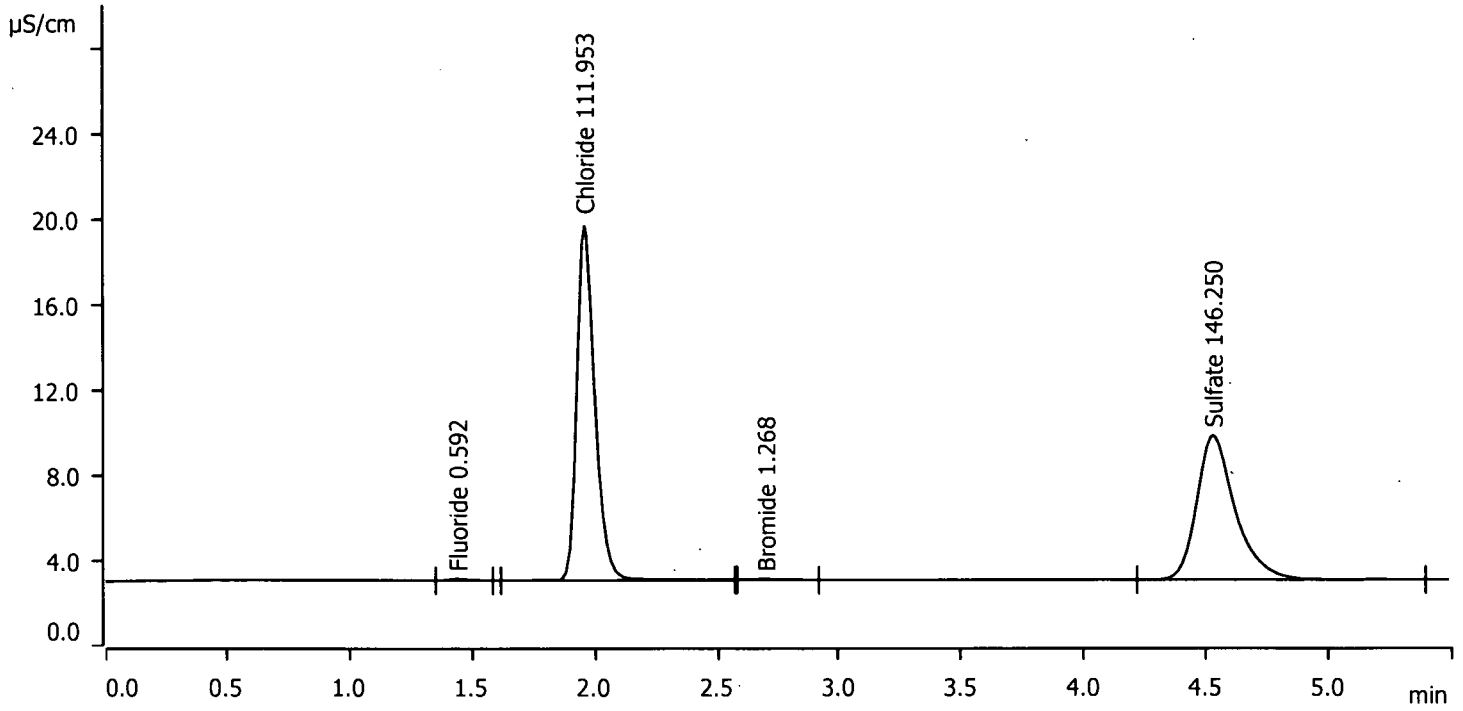
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.165	10.116	Fluoride	BB
2	1.96	0.304	30.772	Chloride	BB
3	2.31	0.226	9.956	Nitrite	BB
4	2.70	0.036	9.949	Bromide	BB
5	3.01	0.239	10.233	Nitrate	BB
6	4.53	1.513	171.726	Sulfate	BB

Sample data

Ident	R2401485-008 DNR
Sample type	Sample
Determination start	2024-02-27 19:57:21 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77183
Sample Position	104
Comment 1	9056A CS
Comment 2	

Anions



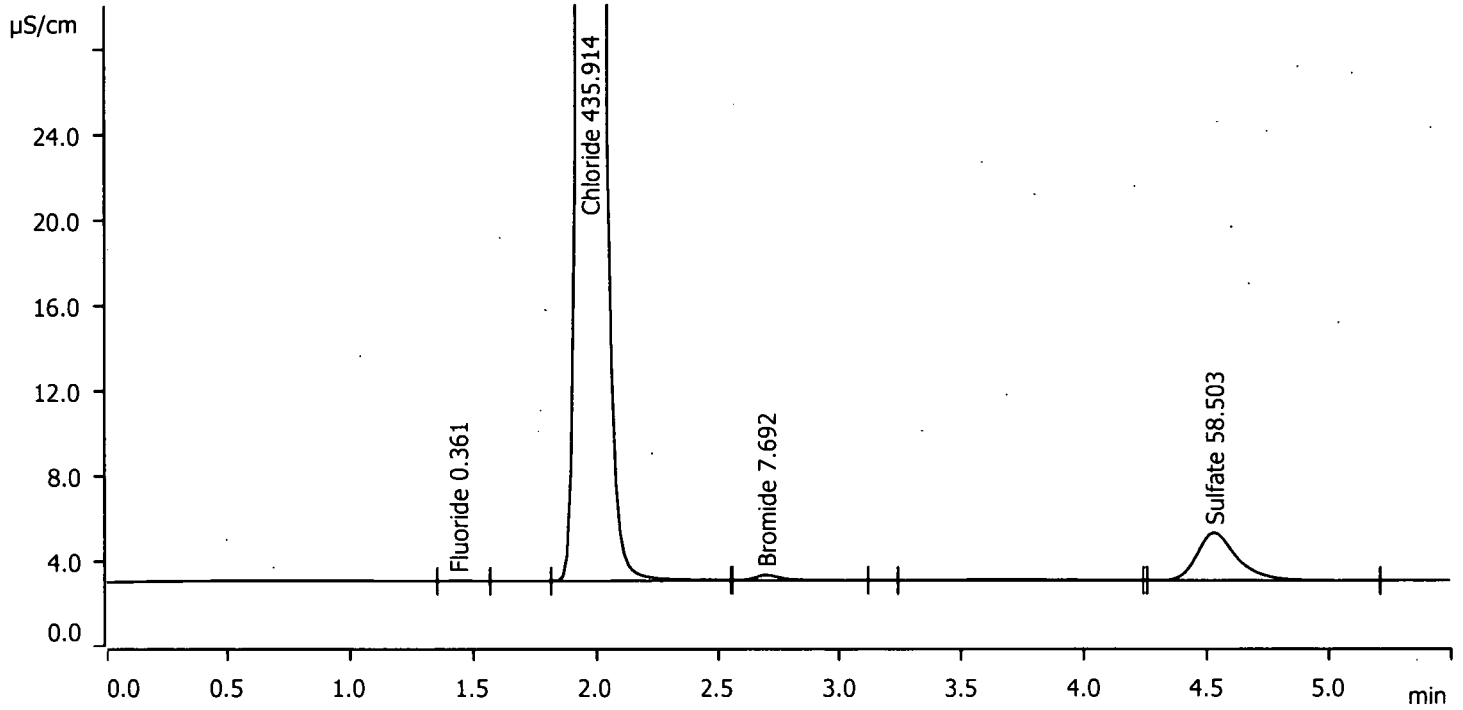
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.006	0.592	Fluoride	BB
2	1.96	1.401	111.953	Chloride	BB
3	2.70	0.004	1.268	Bromide	BB
4	4.53	1.236	146.250	Sulfate	BB

Sample data

Ident	R2401485-009
Sample type	Sample
Determination start	2024-02-27 20:04:14 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77184
Sample Position	105
Comment 1	9056A S
Comment 2	

Anions



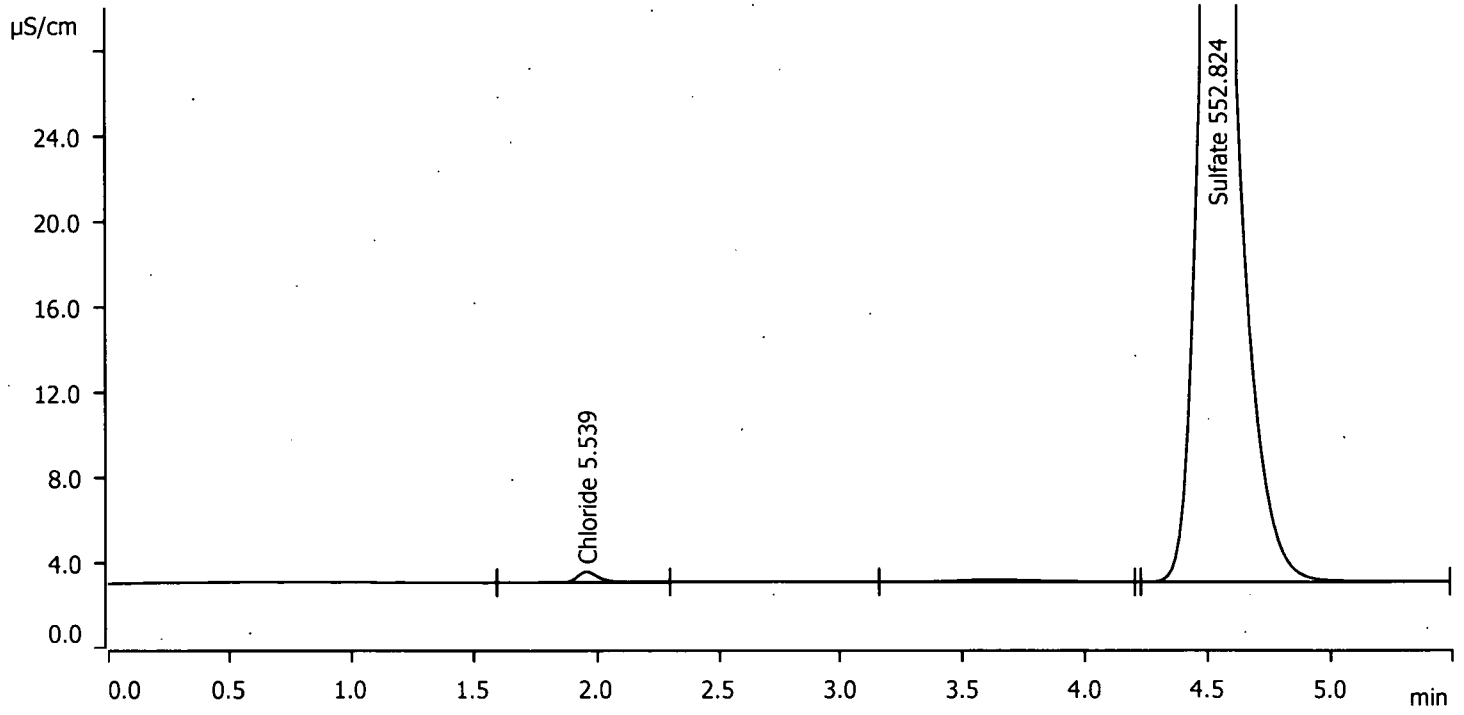
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.003	0.361	Fluoride	BB
2	1.98	9.944	435.914	Chloride	BB
3	2.70	0.027	7.692	Bromide	BB
5	4.52	0.422	58.503	Sulfate	BB

Sample data

Ident	R2401485-010
Sample type	Sample
Determination start	2024-02-27 20:11:09 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77185
Sample Position	106
Comment 1	9056A C
Comment 2	

Anions



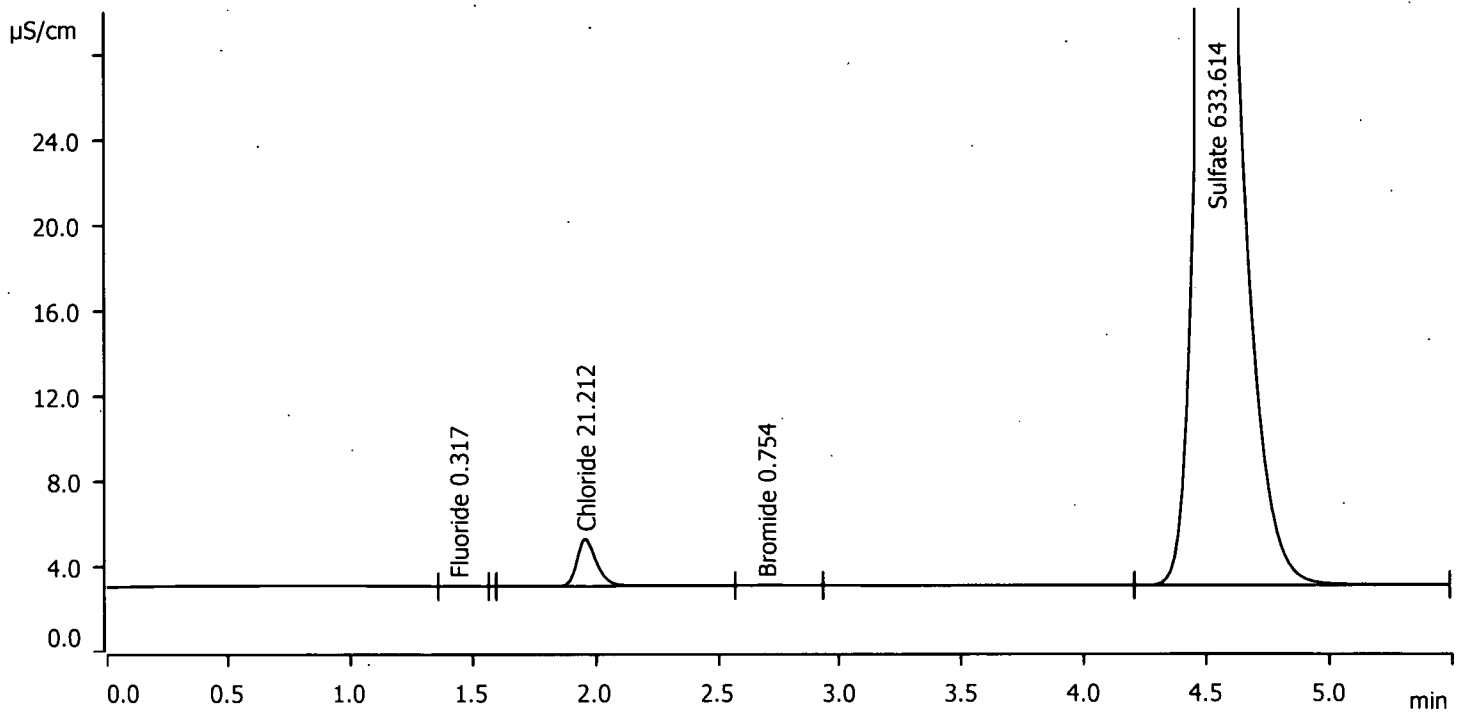
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.048	5.539	Chloride	BB
3	4.54	7.842	552.824	Sulfate	BB

Sample data

Ident	R2401485-011
Sample type	Sample
Determination start	2024-02-27 20:18:02 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77186
Sample Position	107
Comment 1	9056A C
Comment 2	

Anions



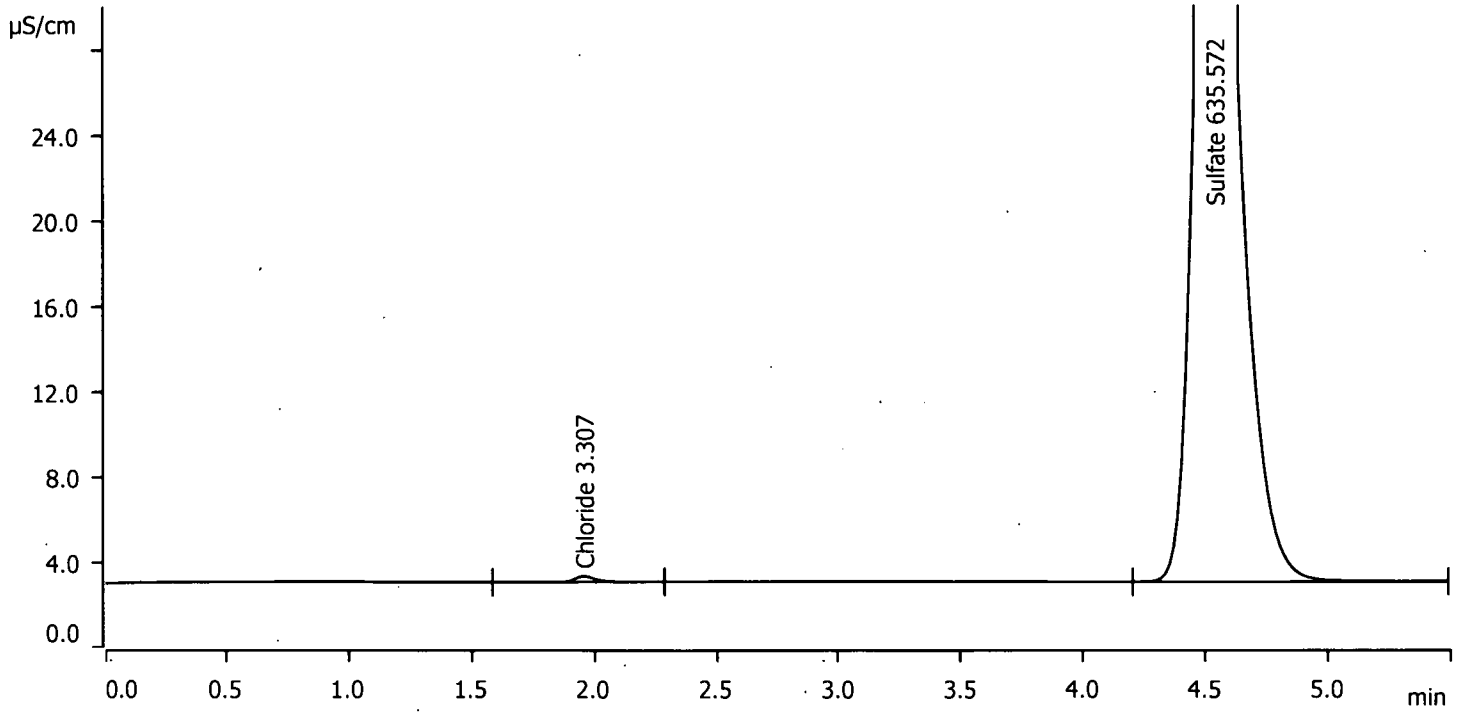
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.002	0.317	Fluoride	BB
2	1.96	0.202	21.212	Chloride	BB
3	2.70	0.003	0.754	Bromide	BB
4	4.54	9.710	633.614	Sulfate	BB

Sample data

Ident	R2401485-012
Sample type	Sample
Determination start	2024-02-27 20:24:54 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77187
Sample Position	108
Comment 1	9056A C
Comment 2	

Anions



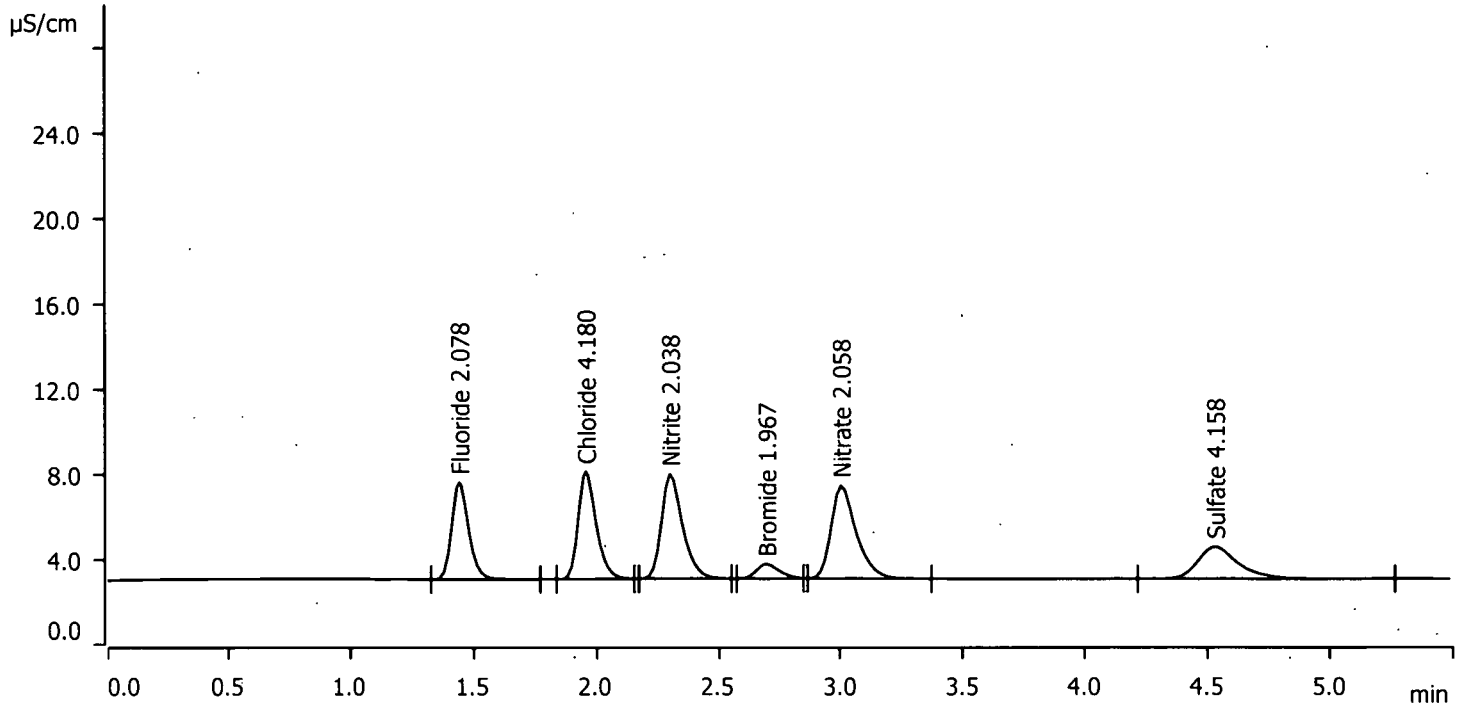
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.027	3.307	Chloride	BB
2	4.54	9.757	635.572	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-02-27 20:31:46 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77188
Sample Position	109
Comment 1	300.0/9056A
Comment 2	

Anions



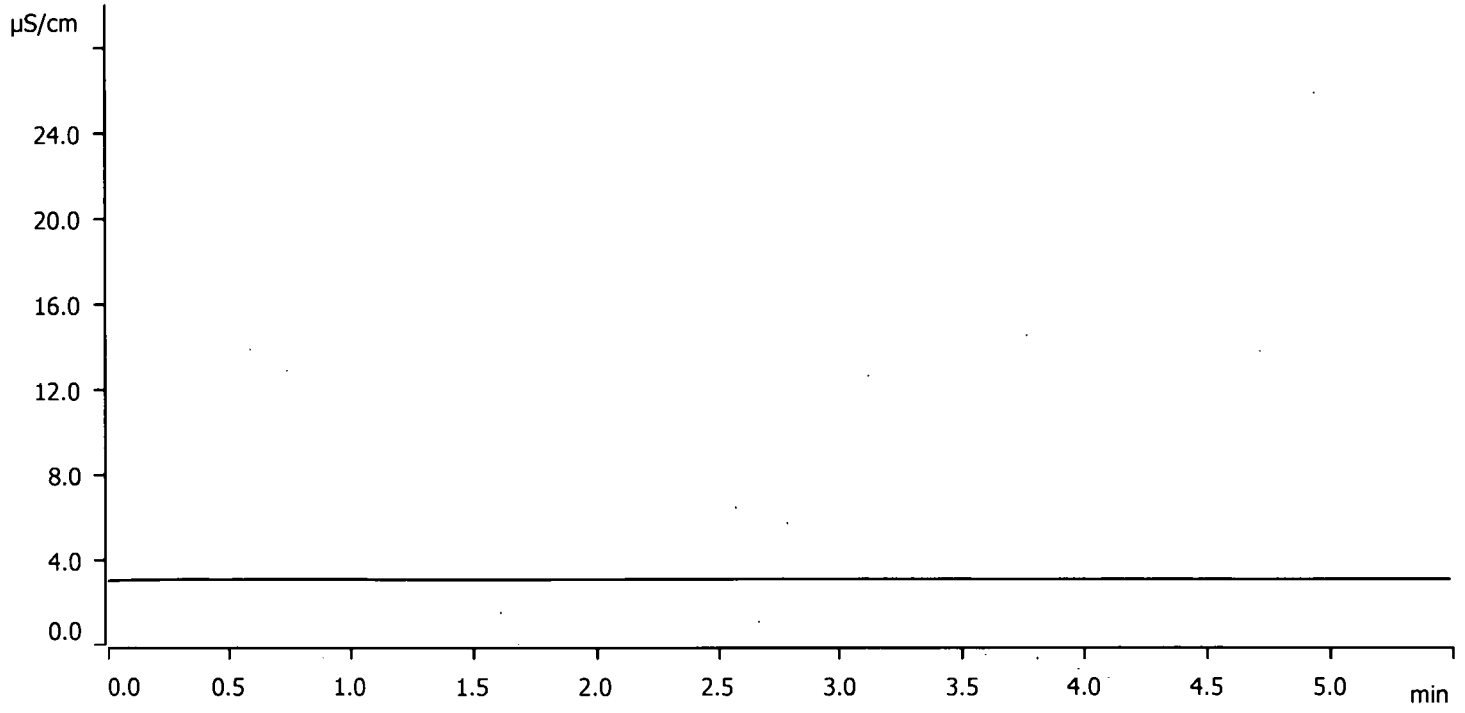
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.360	2.078	Fluoride	BB
2	1.96	0.429	4.180	Chloride	BB
3	2.30	0.491	2.038	Nitrite	BB
4	2.70	0.073	1.967	Bromide	BB
5	3.00	0.518	2.058	Nitrate	BB
6	4.53	0.290	4.158	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-02-27 20:38:40 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77189
Sample Position	110
Comment 1	300.0/9056A
Comment 2	

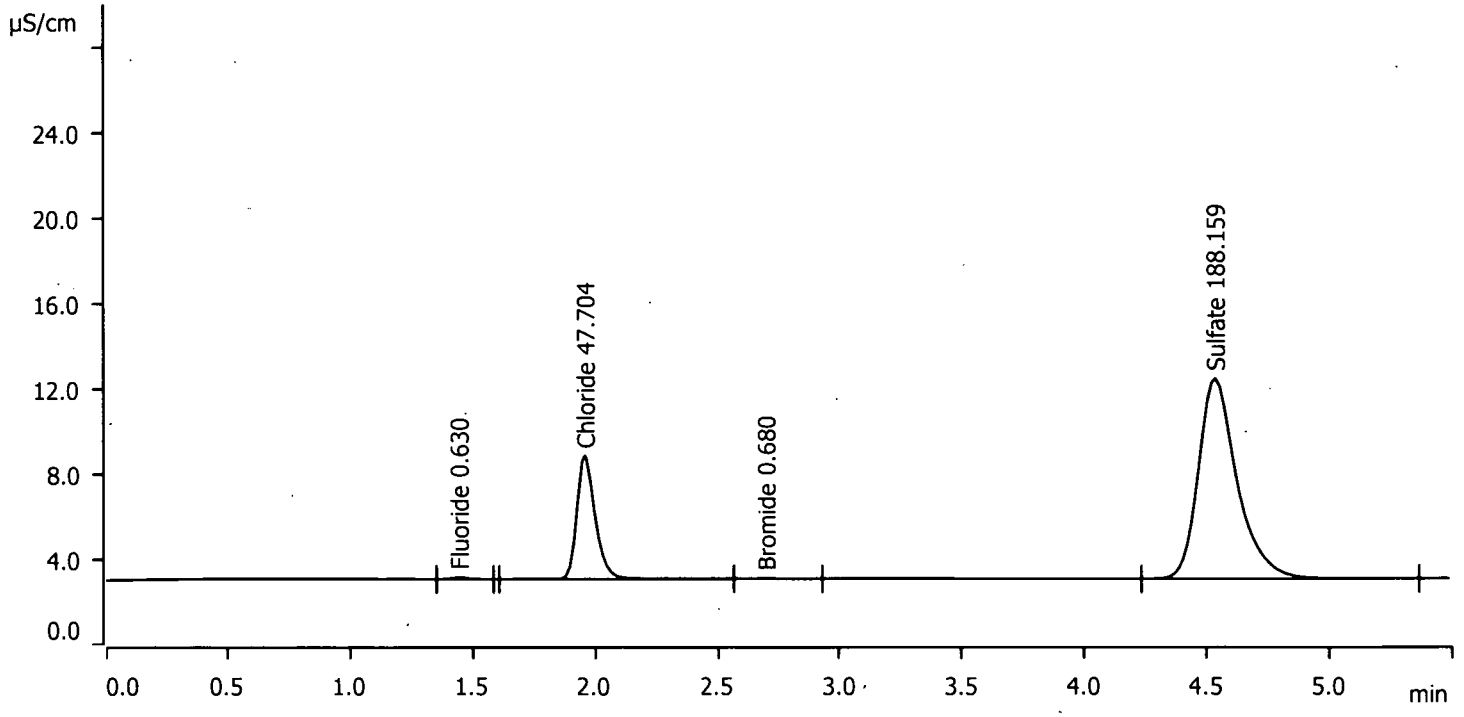
Anions



Sample data

Ident	R2401485-013
Sample type	Sample
Determination start	2024-02-27 20:45:31 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77190
Sample Position	111
Comment 1	9056A C
Comment 2	

Anions



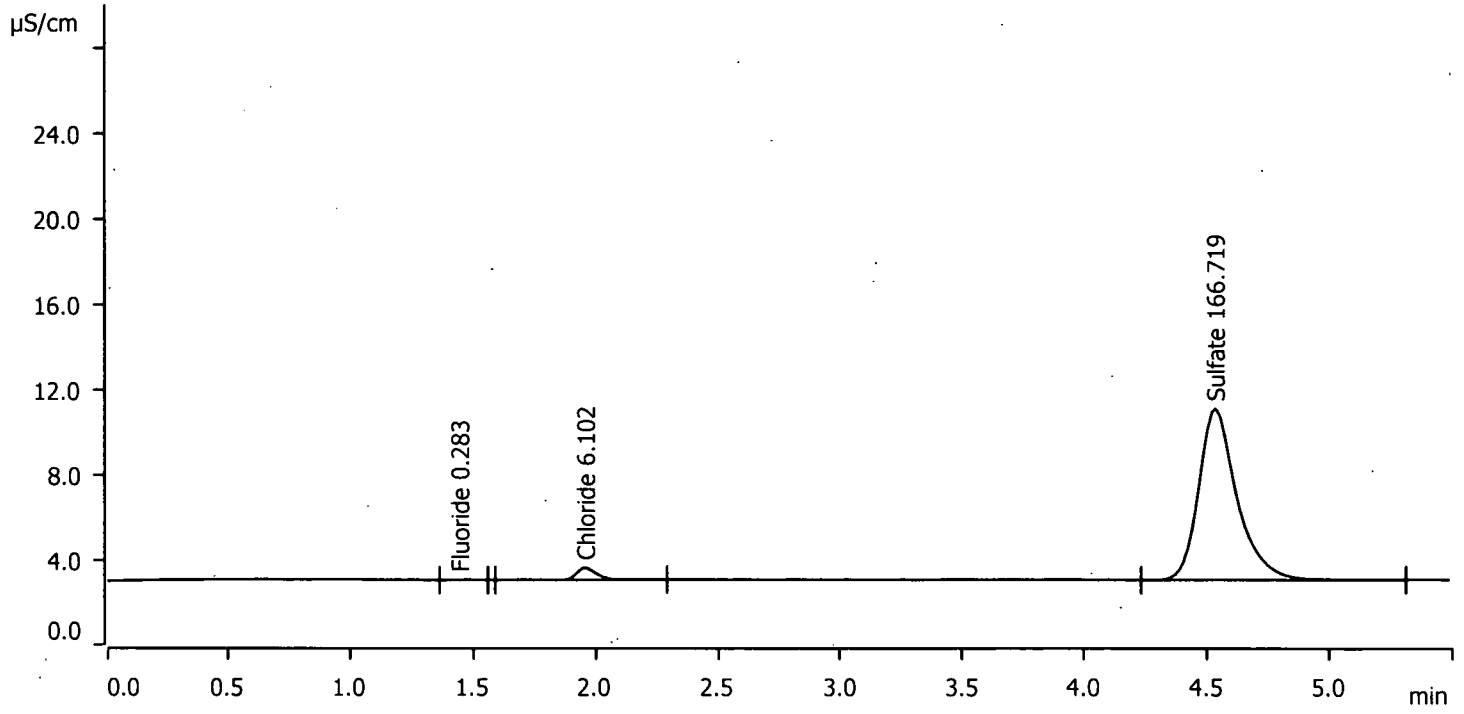
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.007	0.630	Fluoride	BB
2	1.96	0.498	47.704	Chloride	BB
3	2.70	0.002	0.680	Bromide	BB
4	4.53	1.702	188.159	Sulfate	BB

Sample data

Ident	R2401485-014
Sample type	Sample
Determination start	2024-02-27 20:52:24 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77191
Sample Position	112
Comment 1	9056A C
Comment 2	

Anions



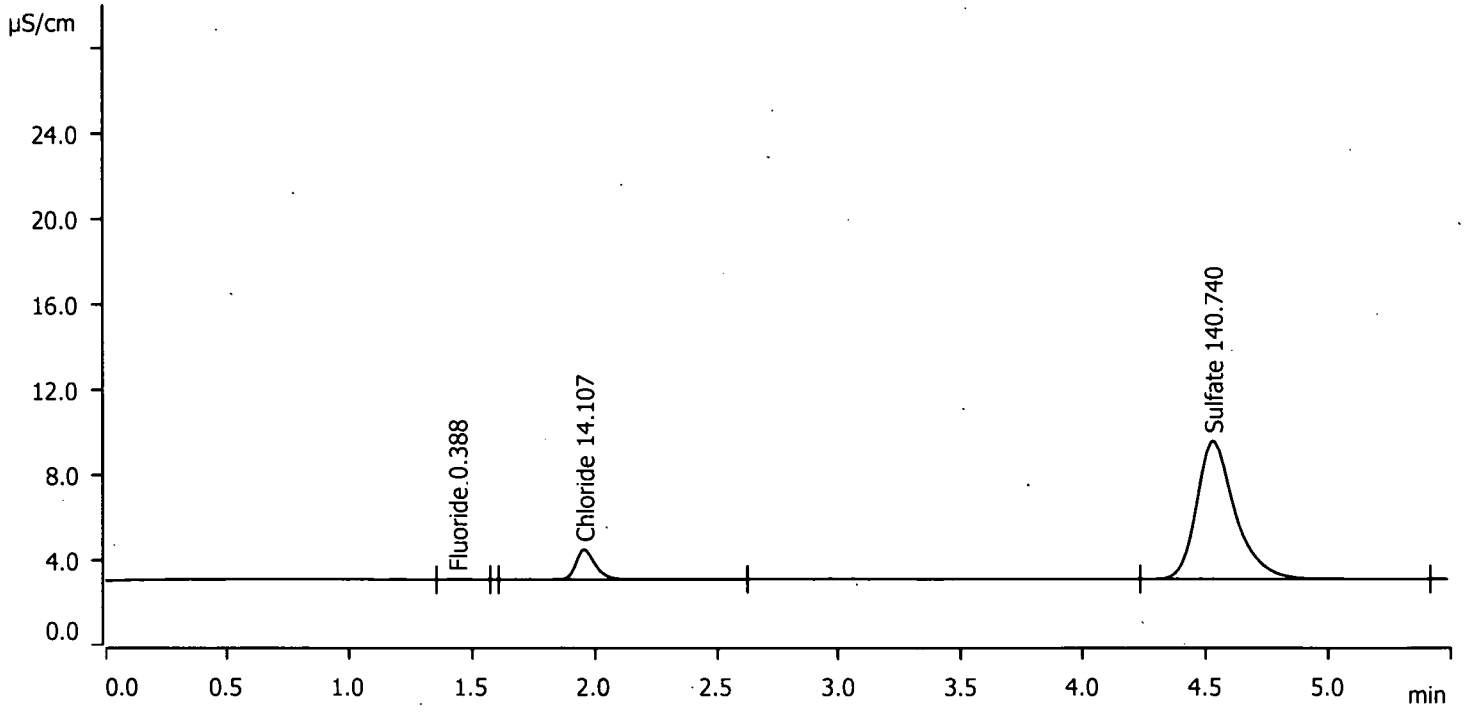
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.001	0.283	Fluoride	BB
2	1.96	0.053	6.102	Chloride	BB
3	4.53	1.458	166.719	Sulfate	BB

Sample data

Ident	R2401485-015
Sample type	Sample
Determination start	2024-02-27 20:59:16 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77192
Sample Position	113
Comment 1	9056A C
Comment 2	

Anions



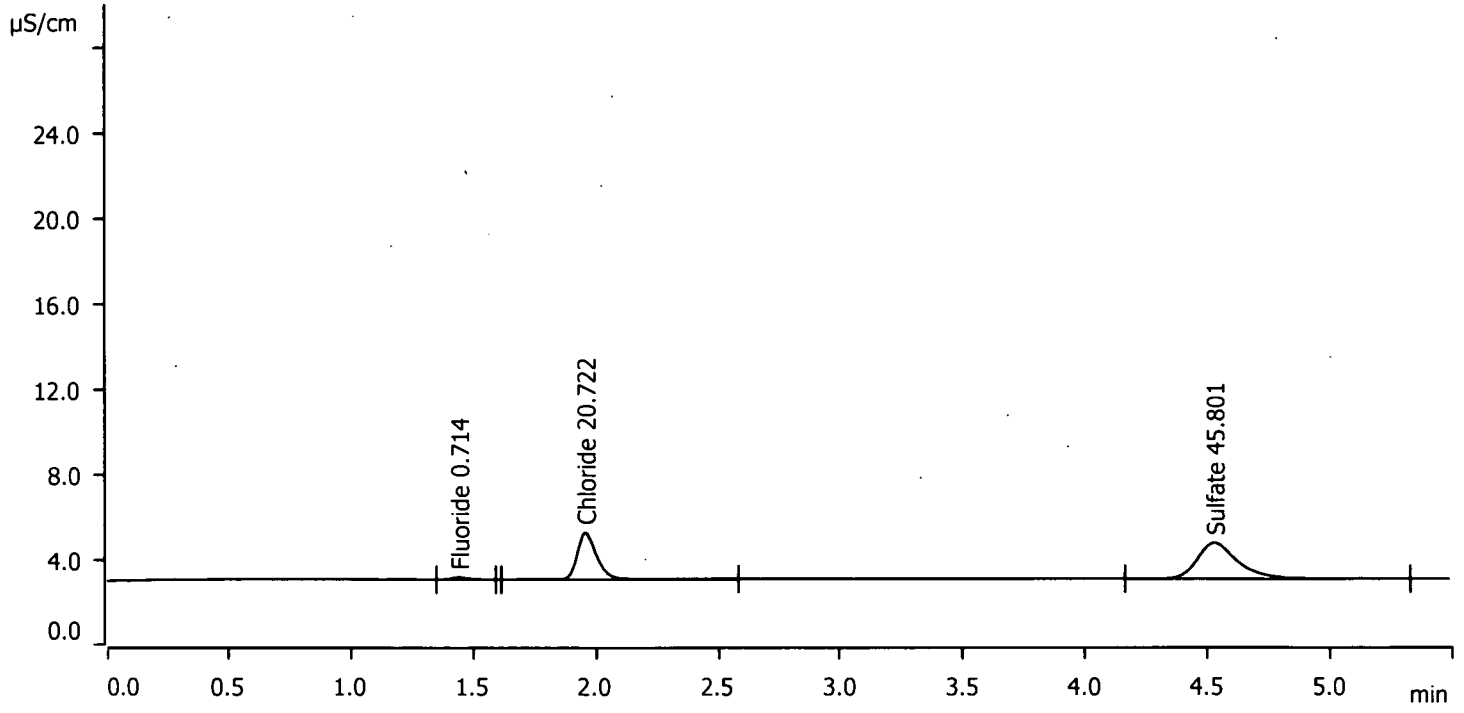
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.003	0.388	Fluoride	BB
2	1.96	0.130	14.107	Chloride	BB
3	4.53	1.179	140.740	Sulfate	BB

Sample data

Ident	R2401485-017
Sample type	Sample
Determination start	2024-02-27 21:06:09 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77193
Sample Position	114
Comment 1	9056A CS
Comment 2	

Anions



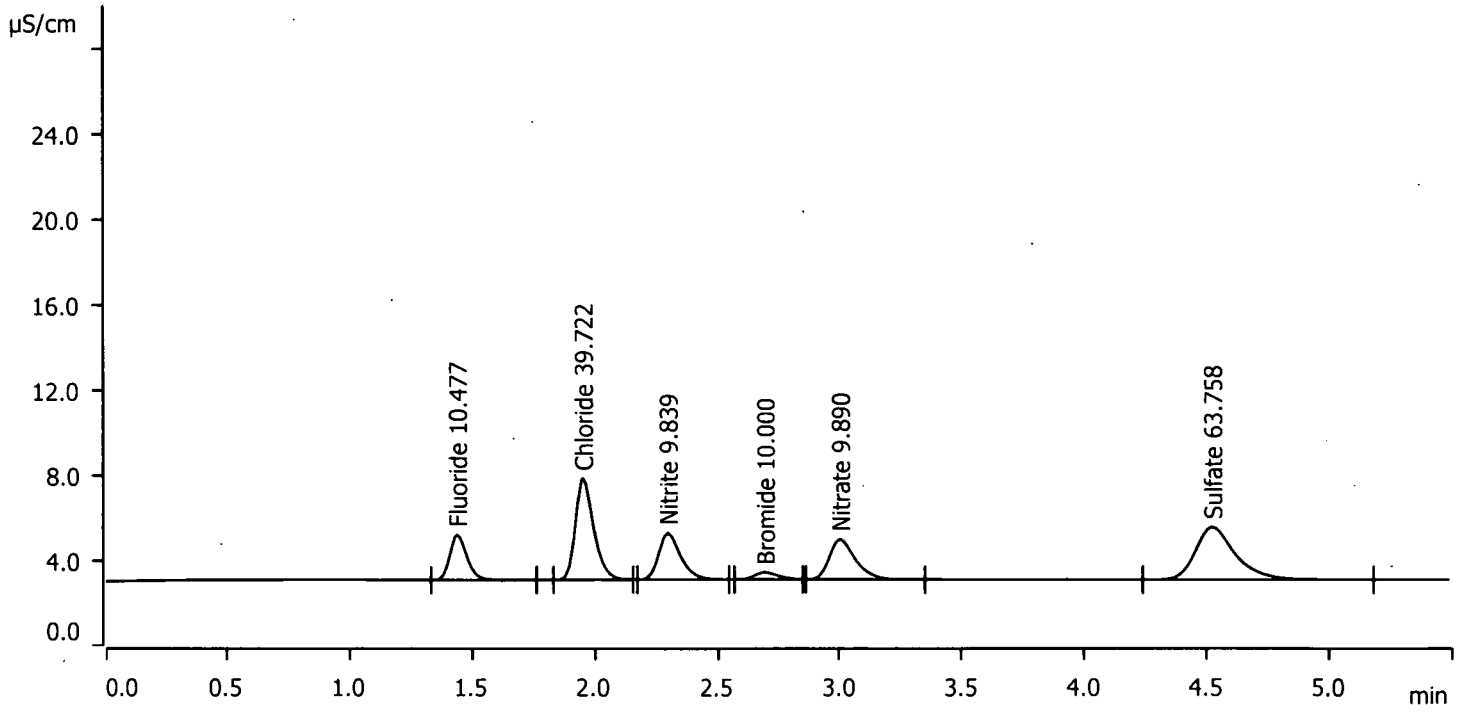
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.008	0.714	Fluoride	BB
2	1.96	0.197	20.722	Chloride	BB
3	4.53	0.323	45.801	Sulfate	BB

Sample data

Ident	R2401485-017 MS
Sample type	Sample
Determination start	2024-02-27 21:13:02 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77194
Sample Position	115
Comment 1	9056A CS
Comment 2	

Anions



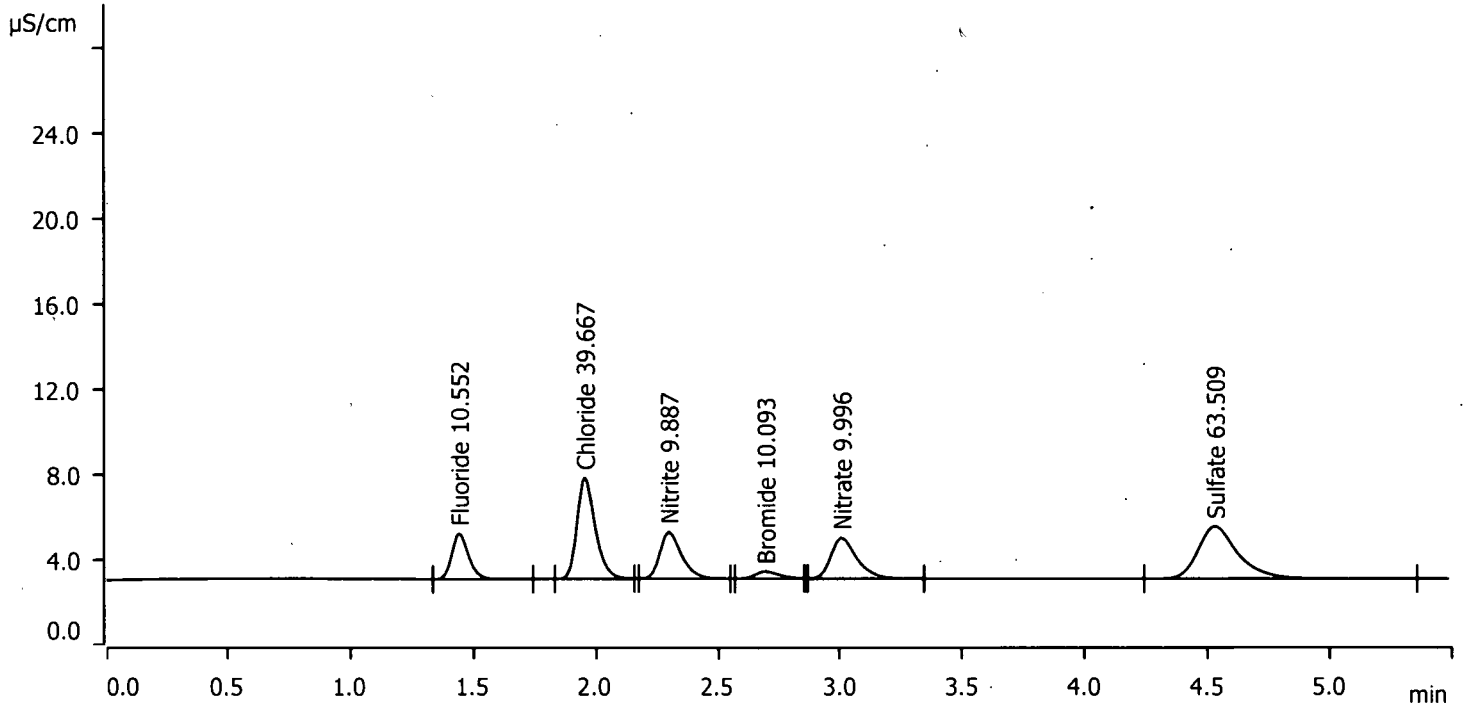
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.171	10.477	Fluoride	BB
2	1.96	0.404	39.722	Chloride	BB
3	2.30	0.223	9.839	Nitrite	BB
4	2.69	0.036	10.000	Bromide	BB
5	3.00	0.230	9.890	Nitrate	BB
6	4.52	0.465	63.758	Sulfate	BB

Sample data

Ident	R2401485-017 MSD
Sample type	Sample
Determination start	2024-02-27 21:19:56 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77195
Sample Position	116
Comment 1	9056A CS
Comment 2	

Anions



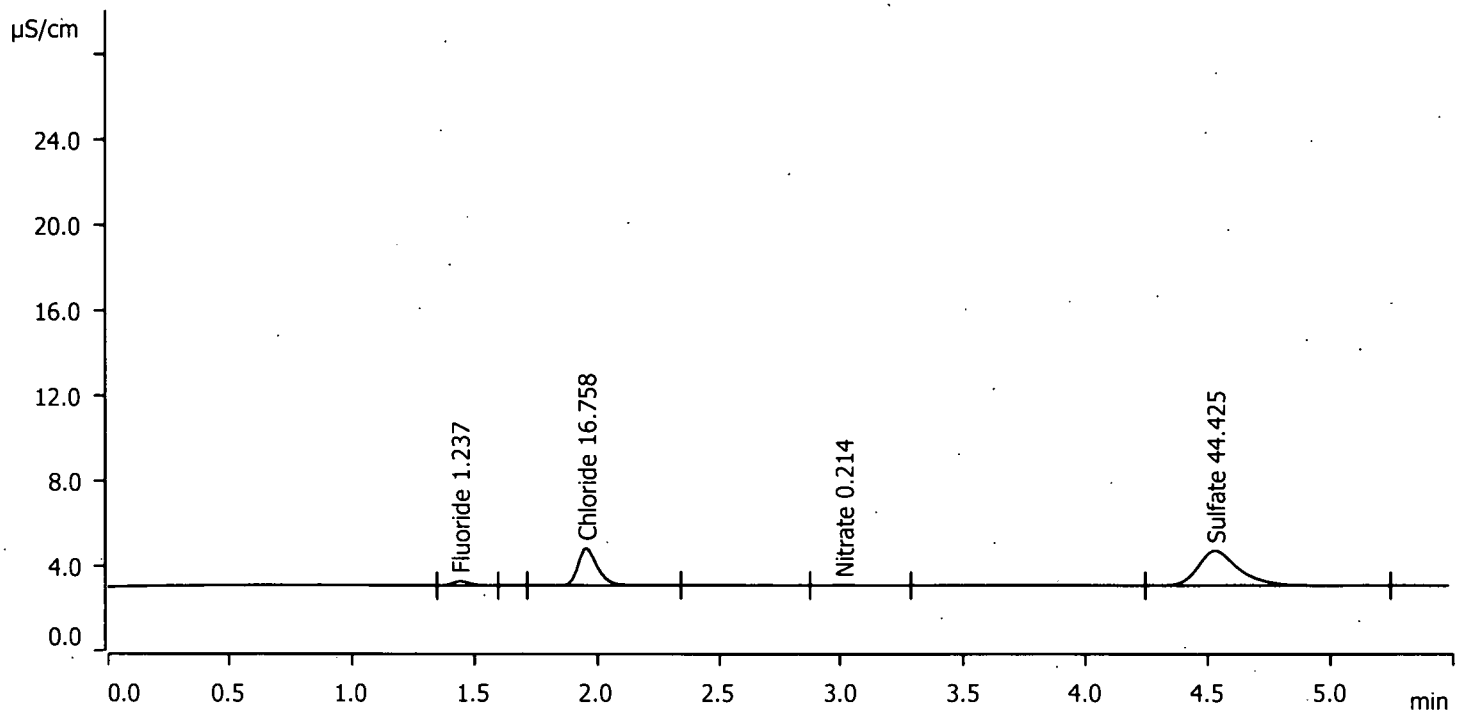
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.172	10.552	Fluoride	BB
2	1.96	0.404	39.667	Chloride	BB
3	2.30	0.224	9.887	Nitrite	BB
4	2.70	0.036	10.093	Bromide	BB
5	3.01	0.233	9.996	Nitrate	BB
6	4.53	0.463	63.509	Sulfate	BB

Sample data

Ident	R2401485-018
Sample type	Sample
Determination start	2024-02-27 21:26:48 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77196
Sample Position	117
Comment 1	9056A CS
Comment 2	

Anions



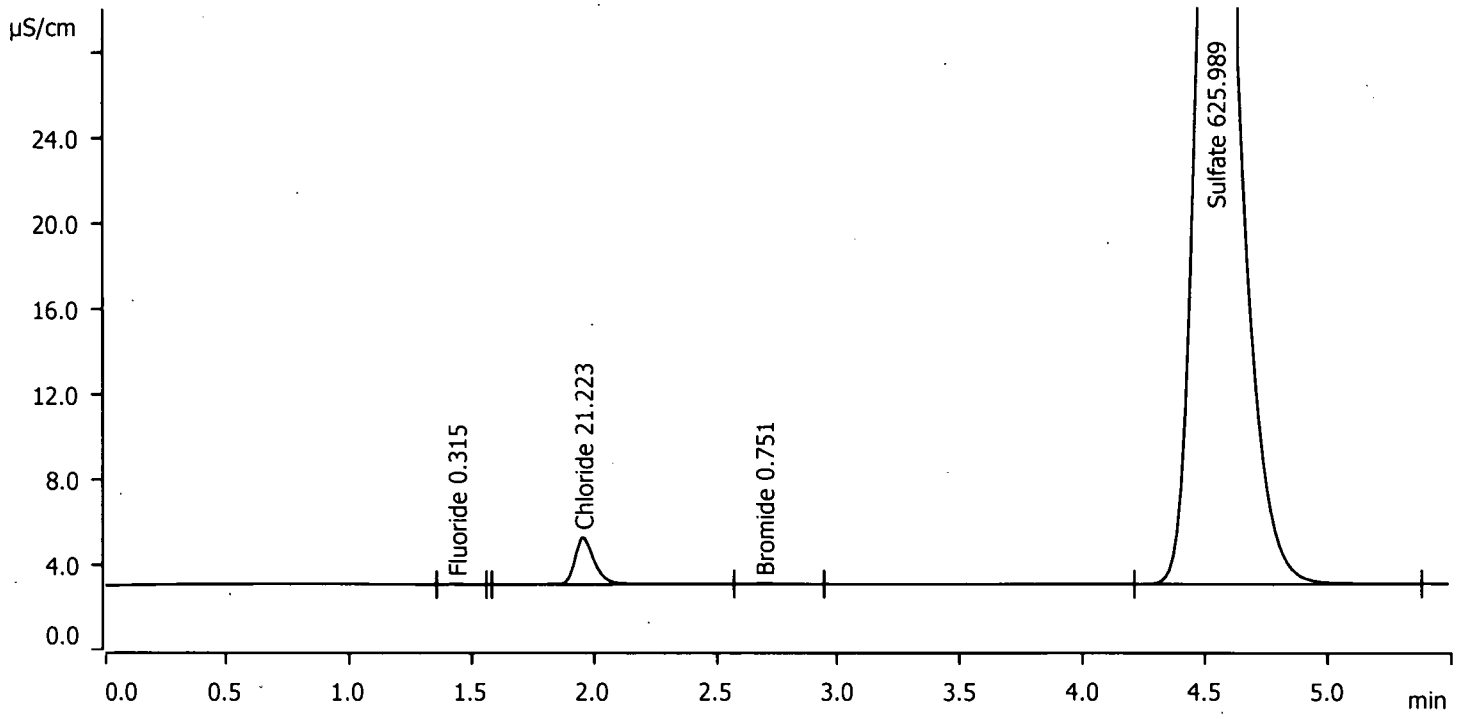
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.017	1.237	Fluoride	BB
2	1.96	0.157	16.758	Chloride	BB
3	3.01	0.001	0.214	Nitrate	BB
4	4.53	0.312	44.425	Sulfate	BB

Sample data

Ident	R2401485-019
Sample type	Sample
Determination start	2024-02-27 21:33:41 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77197
Sample Position	118
Comment 1	9056A C
Comment 2	

Anions



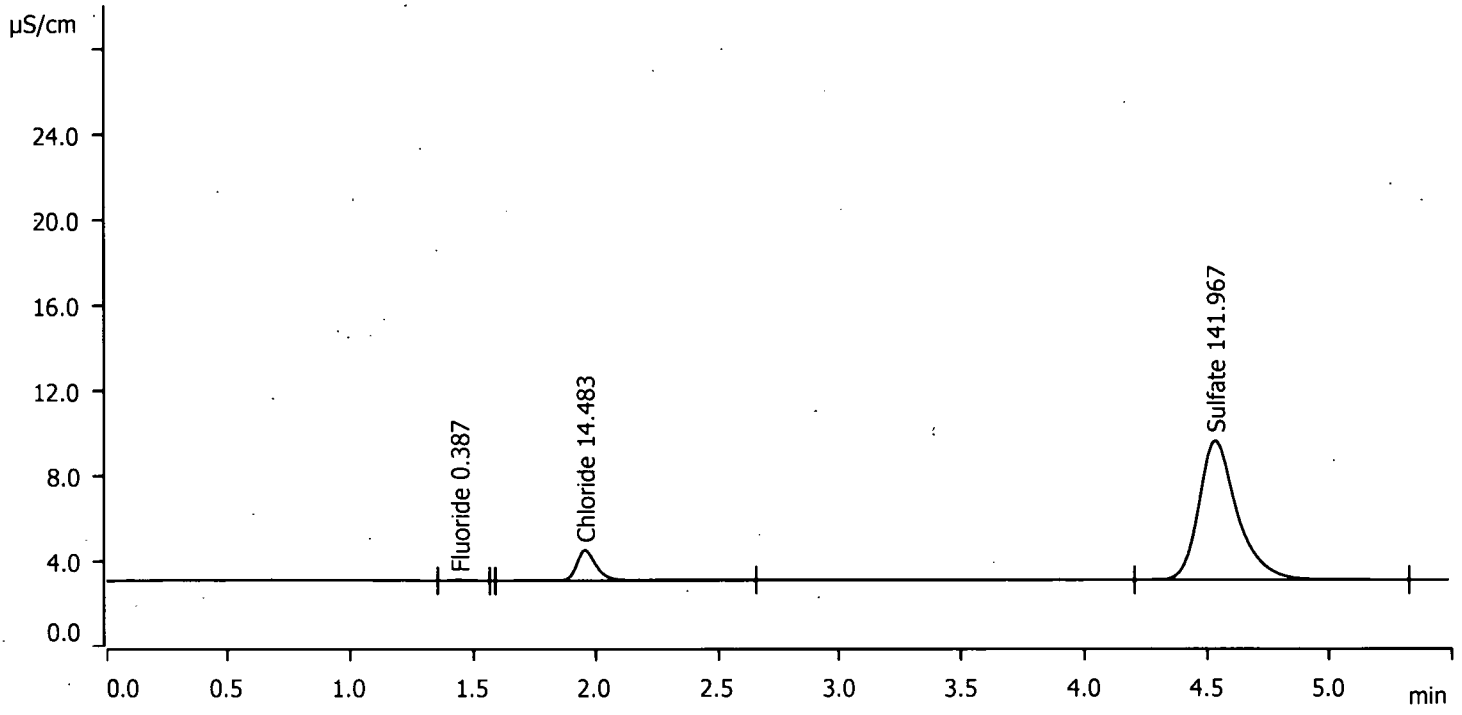
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.002	0.315	Fluoride	BB
2	1.96	0.202	21.223	Chloride	BB
3	2.70	0.003	0.751	Bromide	BB
4	4.54	9.525	625.989	Sulfate	BB

Sample data

Ident	R2401485-020
Sample type	Sample
Determination start	2024-02-27 21:40:33 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77198
Sample Position	119
Comment 1	9056A C
Comment 2	

Anions



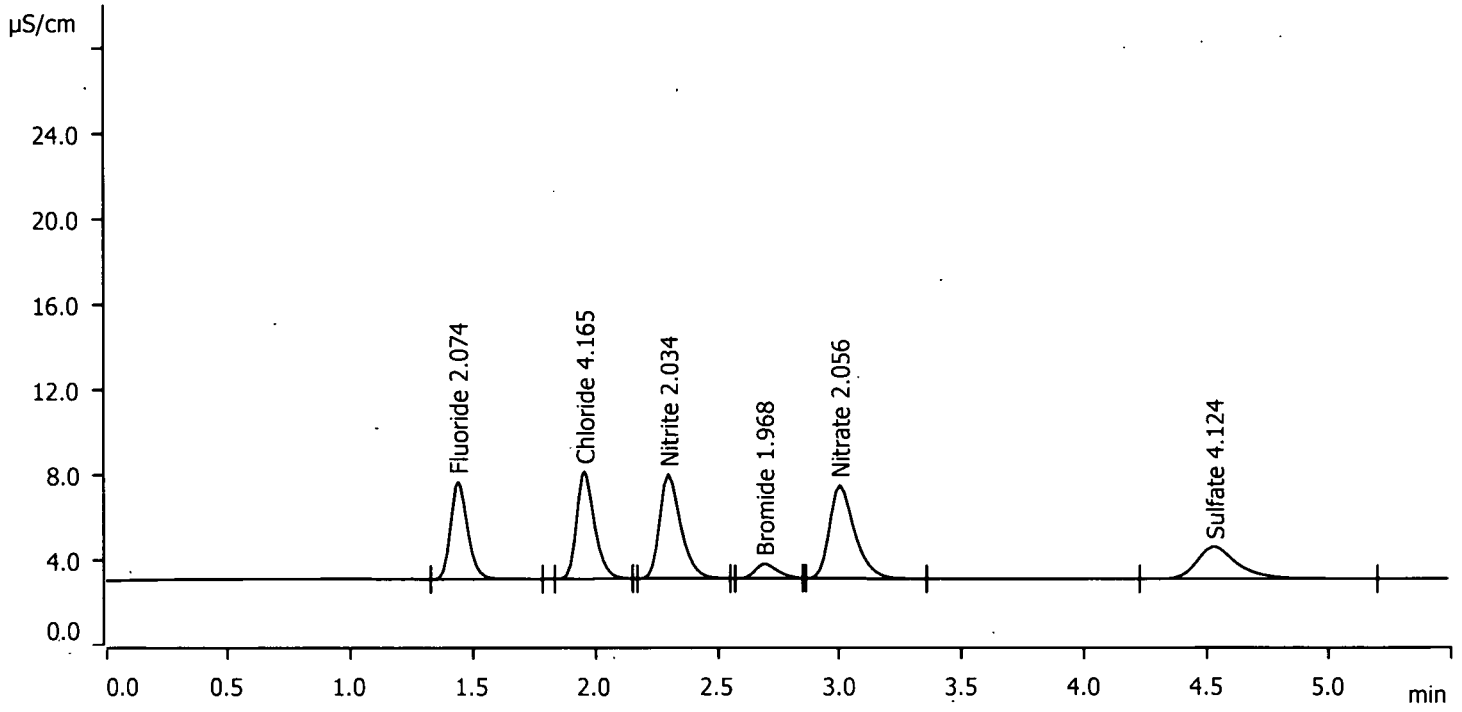
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.003	0.387	Fluoride	BB
2	1.96	0.134	14.483	Chloride	BB
3	4.53	1.192	141.967	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-02-27 21:47:30 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77199
Sample Position	120
Comment 1	300.0/9056A
Comment 2	

Anions



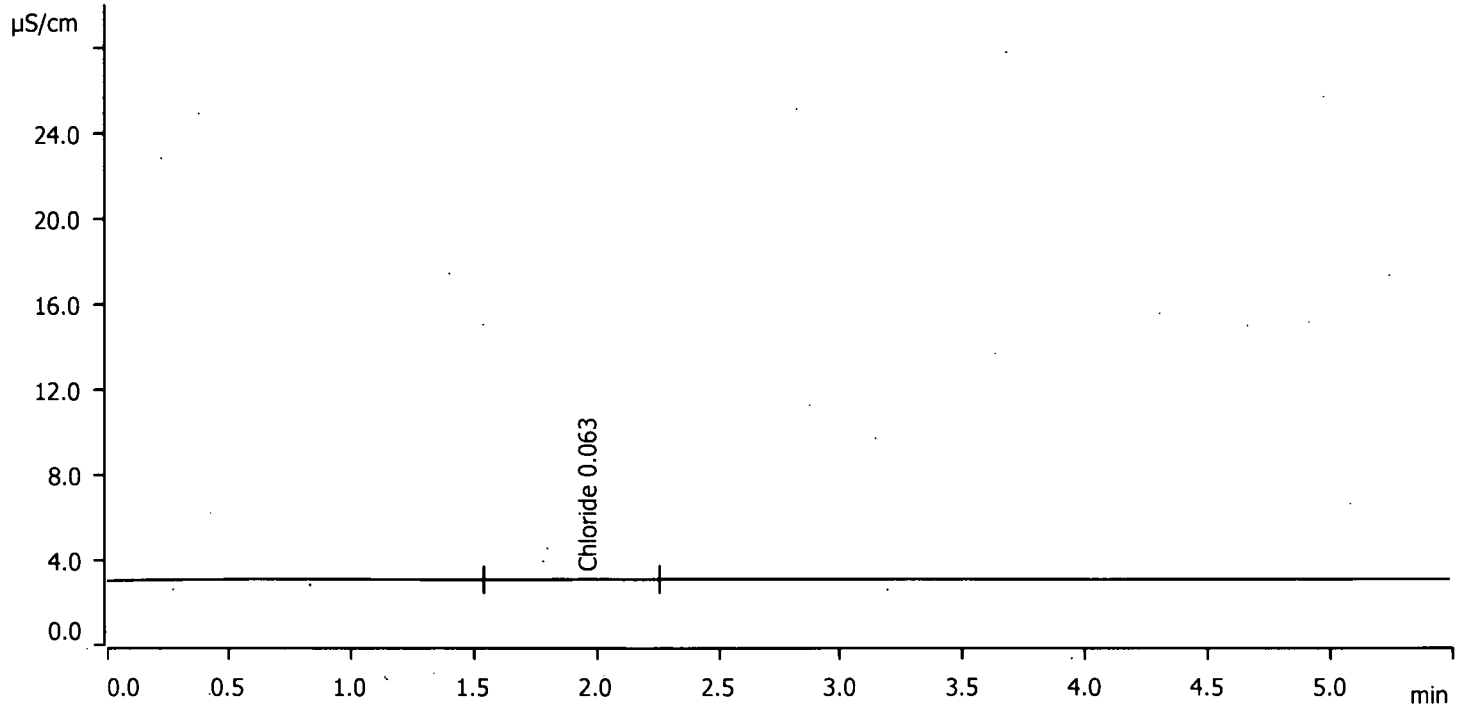
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.359	2.074	Fluoride	BB
2	1.96	0.427	4.165	Chloride	BB
3	2.30	0.490	2.034	Nitrite	BB
4	2.70	0.073	1.968	Bromide	BB
5	3.00	0.517	2.056	Nitrate	BB
6	4.53	0.288	4.124	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-02-27 21:54:24 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77200
Sample Position	121
Comment 1	300.0/9056A
Comment 2	

Anions



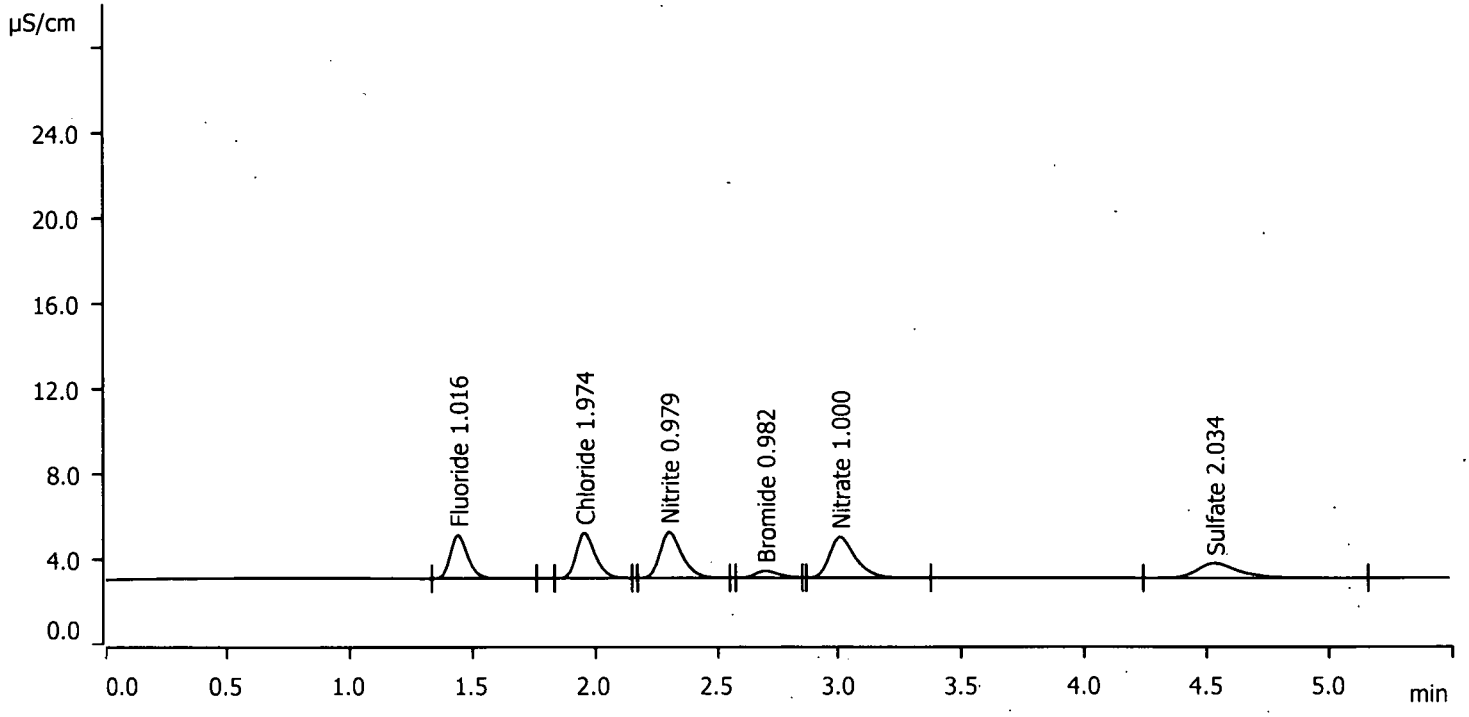
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.003	0.063	Chloride	BB

Sample data

Ident	LCS
Sample type	Check standard 2
Determination start	2024-02-27 22:01:15 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77201
Sample Position	122
Comment 1	300.0/9056A
Comment 2	

Anions



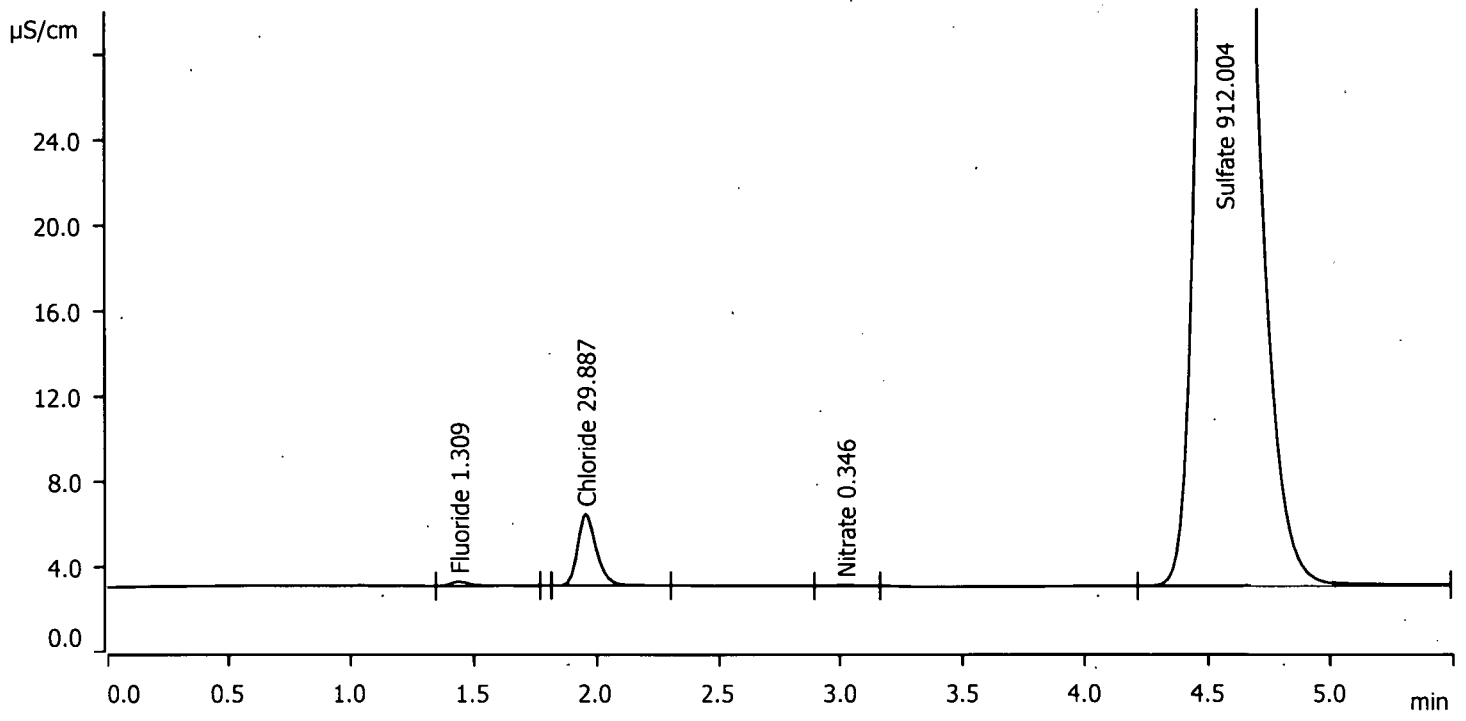
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.165	1.016	Fluoride	BB
2	1.96	0.187	1.974	Chloride	BB
3	2.30	0.222	0.979	Nitrite	BB
4	2.70	0.035	0.982	Bromide	BB
5	3.01	0.233	1.000	Nitrate	BB
6	4.53	0.136	2.034	Sulfate	BB

Sample data

Ident	R2401541-001
Sample type	Sample
Determination start	2024-02-27 22:08:09 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77202
Sample Position	123
Comment 1	300.0 CBN
Comment 2	

Anions



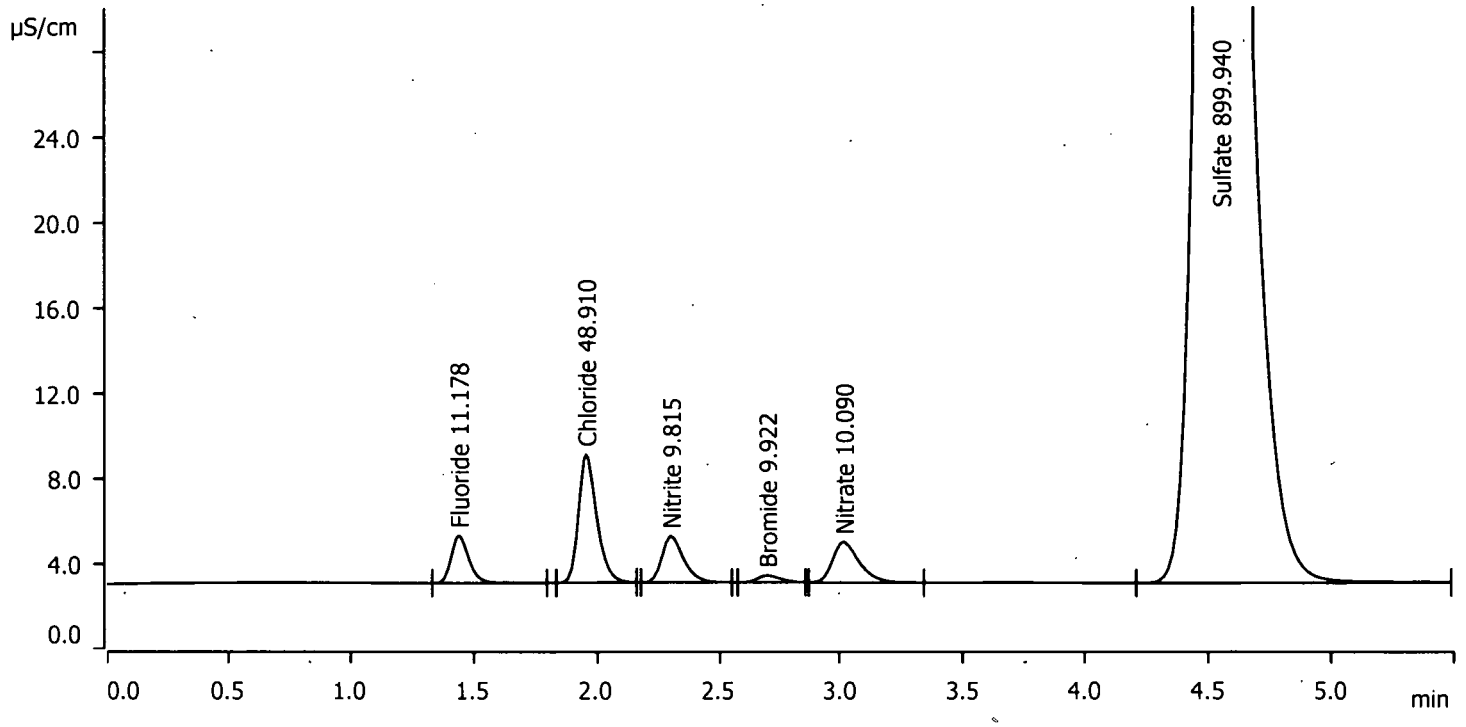
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.018	1.309	Fluoride	BB
2	1.96	0.294	29.887	Chloride	BB
3	3.02	0.004	0.346	Nitrate	BB
4	4.57	17.555	912.004	Sulfate	BB

Sample data

Ident	R2401541-001 MS
Sample type	Sample
Determination start	2024-02-27 22:15:02 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77203
Sample Position	124
Comment 1	300.0 CBN
Comment 2	

Anions



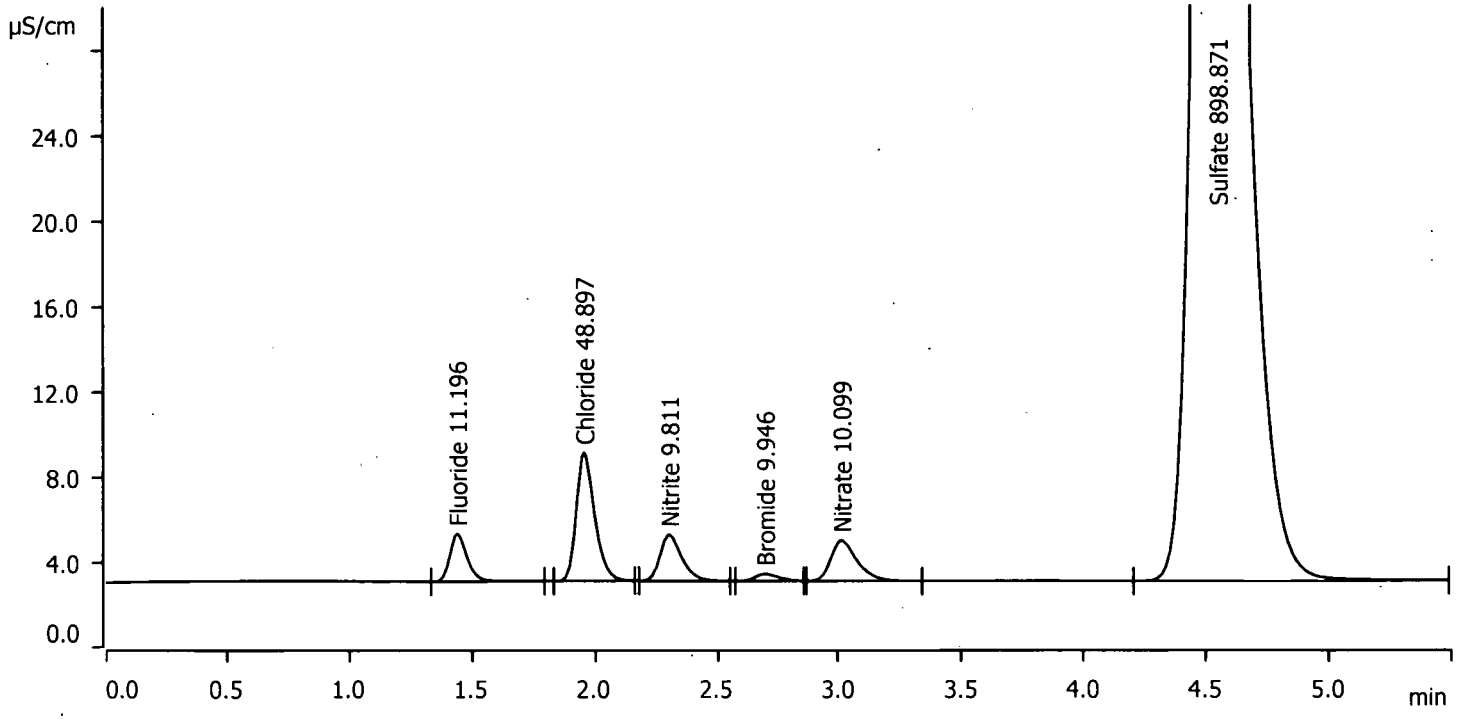
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.183	11.178	Fluoride	BB
2	1.96	0.513	48.910	Chloride	BB
3	2.31	0.222	9.815	Nitrite	BB
4	2.70	0.036	9.922	Bromide	BB
5	3.01	0.235	10.090	Nitrate	BB
6	4.55	17.170	899.940	Sulfate	BB

Sample data

Ident	R2401541-001 MSD
Sample type	Sample
Determination start	2024-02-27 22:21:55 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77204
Sample Position	125
Comment 1	300.0 CBN
Comment 2	

Anions



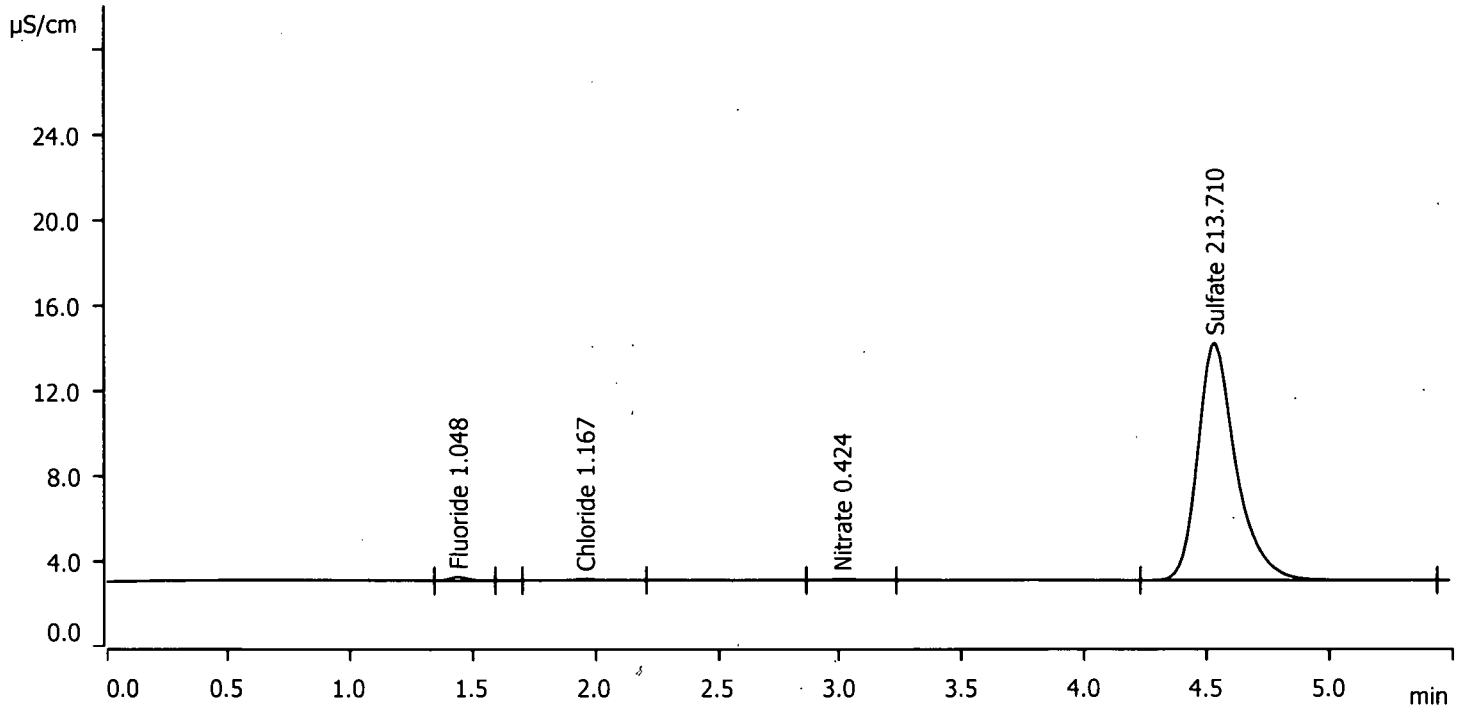
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.184	11.196	Fluoride	BB
2	1.96	0.513	48.897	Chloride	BB
3	2.31	0.222	9.811	Nitrite	BB
4	2.70	0.036	9.946	Bromide	BB
5	3.01	0.236	10.099	Nitrate	BB
6	4.55	17.136	898.871	Sulfate	BB

Sample data

Ident	R2401541-003
Sample type	Sample
Determination start	2024-02-27 22:28:56 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77205
Sample Position	126
Comment 1	300.0 CBN
Comment 2	

Anions



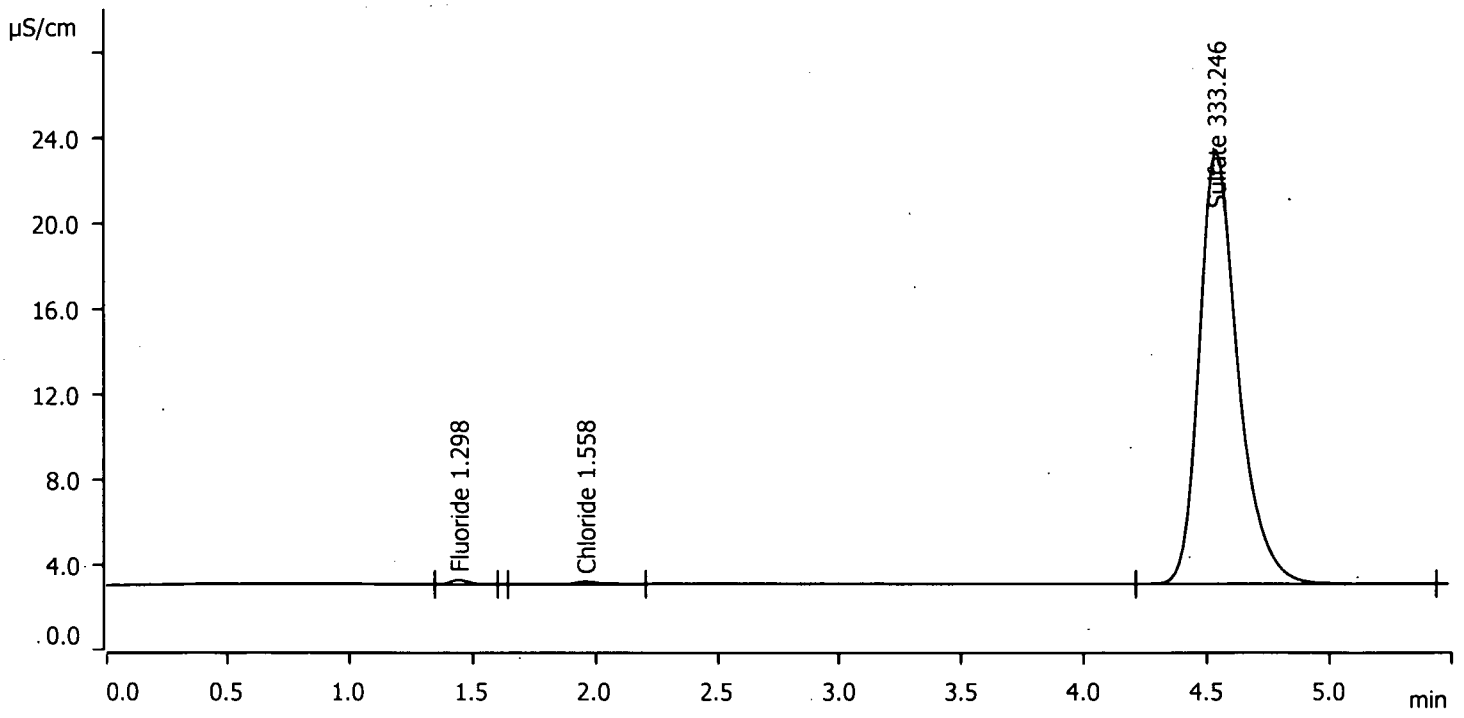
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.014	1.048	Fluoride	BB
2	1.96	0.008	1.167	Chloride	BB
3	3.01	0.006	0.424	Nitrate	BB
4	4.53	2.010	213.710	Sulfate	BB

Sample data

Ident	R2401541-005
Sample type	Sample
Determination start	2024-02-27 22:35:54 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77206
Sample Position	127
Comment 1	300.0 CBN
Comment 2	

Anions



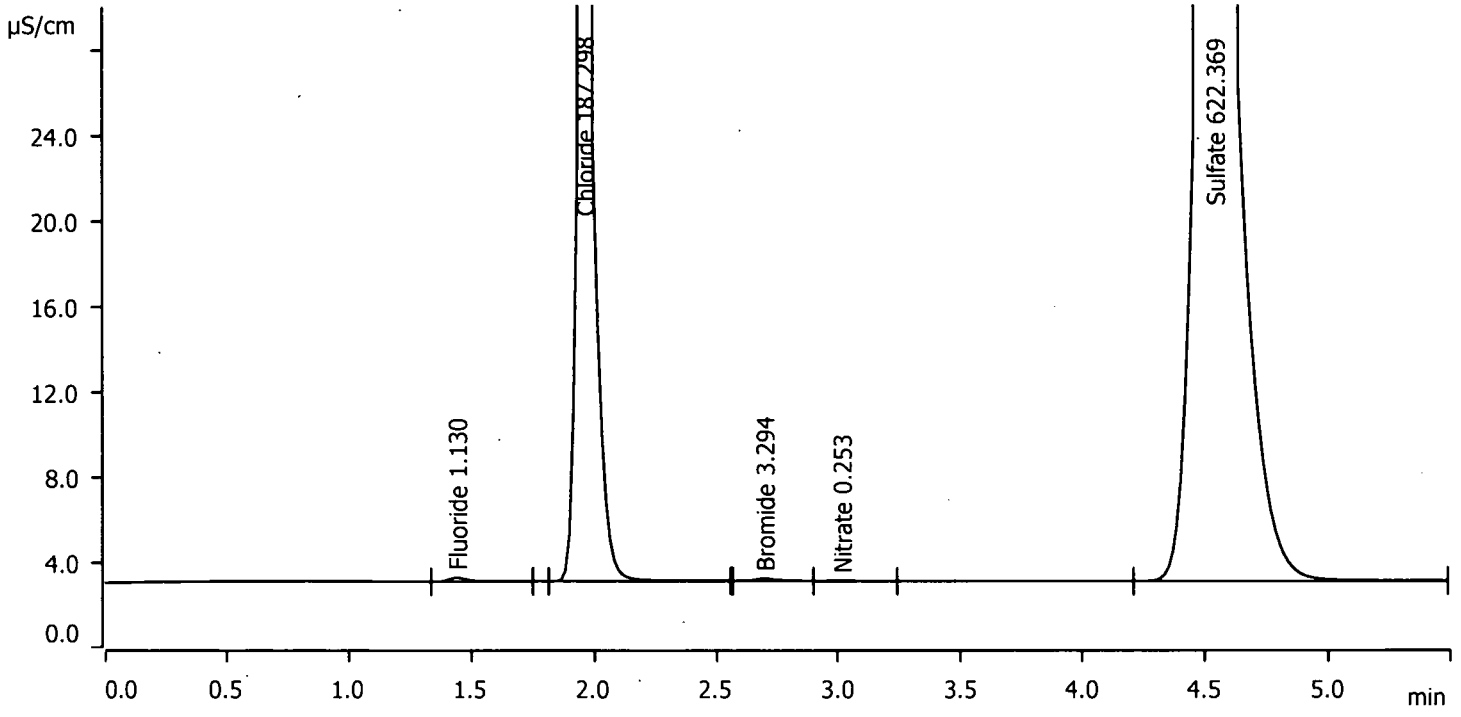
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.018	1.298	Fluoride	BB
2	1.96	0.011	1.558	Chloride	BB
3	4.54	3.696	333.246	Sulfate	BB

Sample data

Ident	R2401541-007
Sample type	Sample
Determination start	2024-02-27 22:42:53 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77207
Sample Position	128
Comment 1	300.0 BN
Comment 2	

Anions



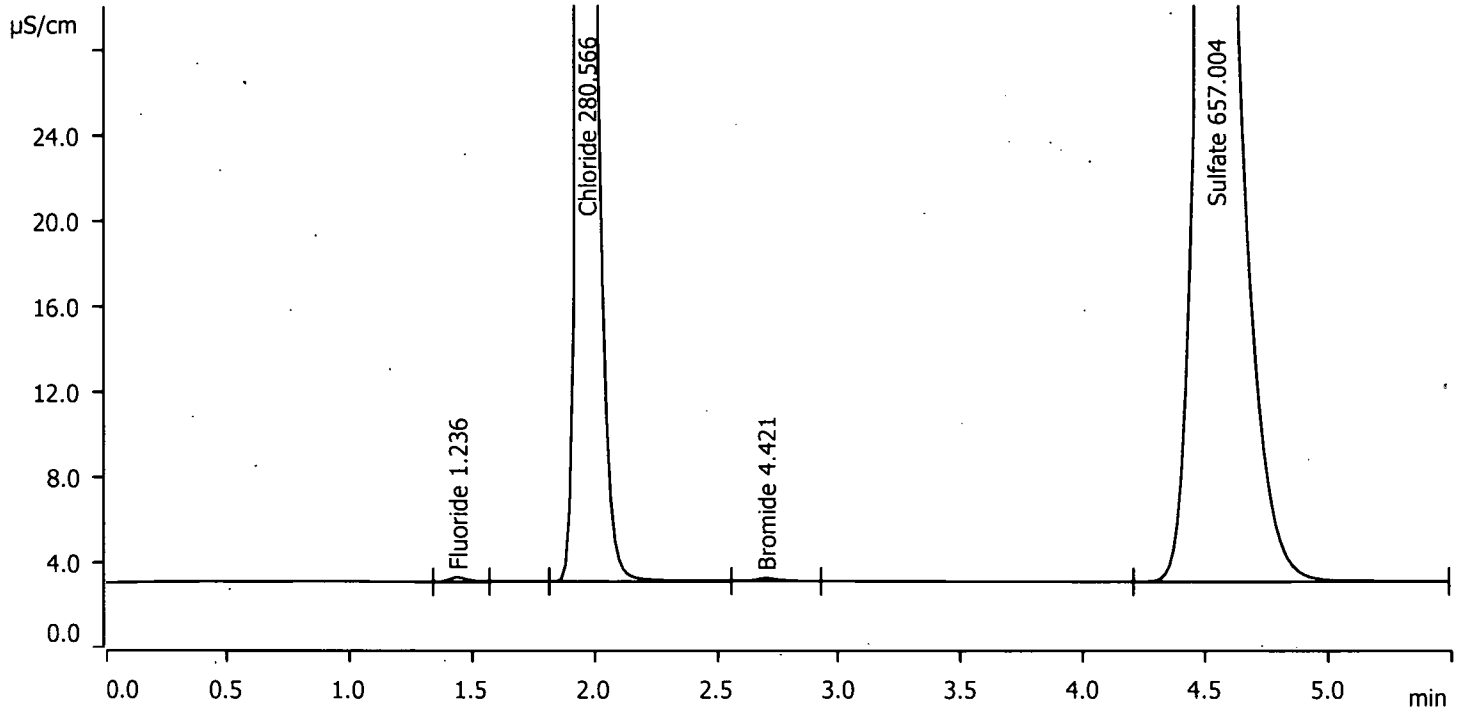
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.015	1.130	Fluoride	BB
2	1.97	2.794	187.298	Chloride	BB
3	2.70	0.011	3.294	Bromide	BB
4	3.01	0.002	0.253	Nitrate	BB
5	4.54	9.439	622.369	Sulfate	BB

Sample data

Ident	R2401541-009
Sample type	Sample
Determination start	2024-02-27 22:49:51 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77208
Sample Position	129
Comment 1	300.0 BN
Comment 2	

Anions



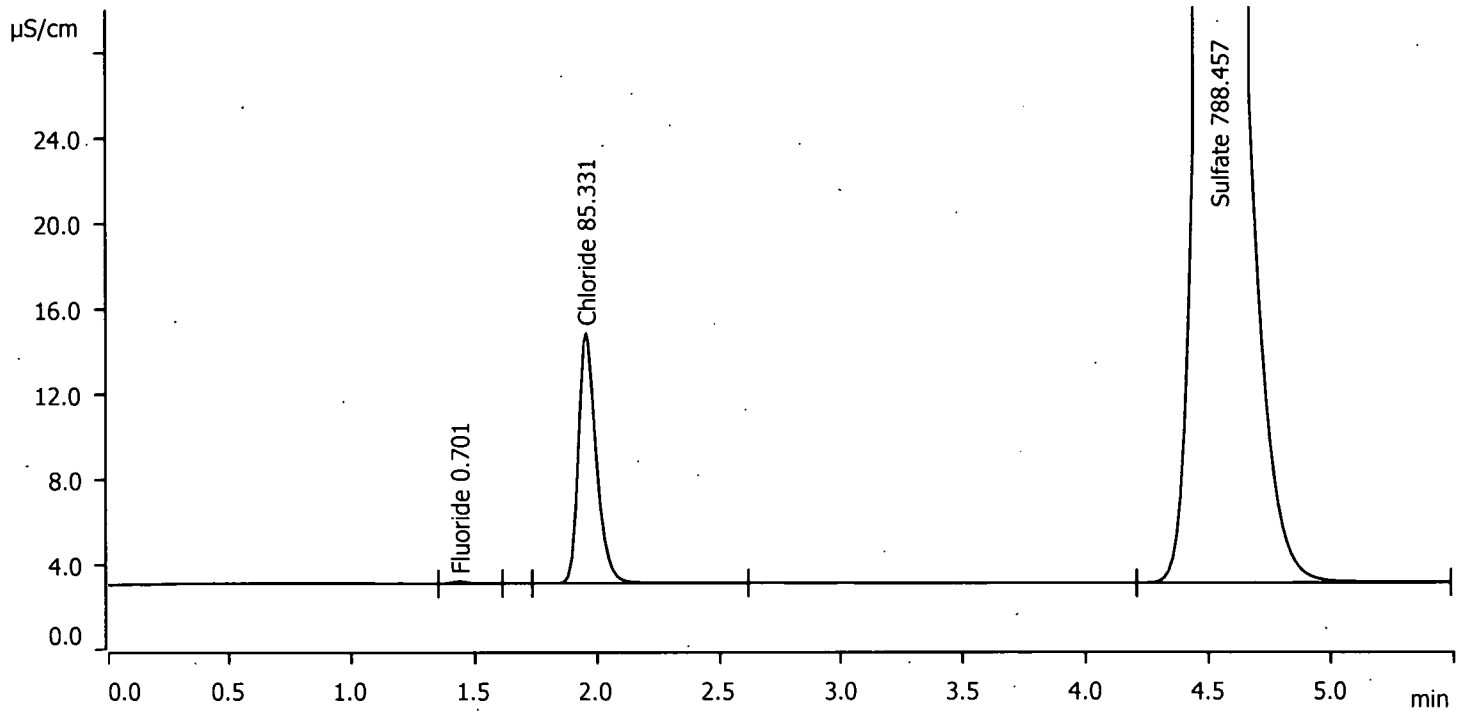
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.017	1.236	Fluoride	BB
2	1.97	5.017	280.566	Chloride	BB
3	2.70	0.016	4.421	Bromide	BB
4	4.54	10.285	657.004	Sulfate	BB

Sample data

Ident	R2401541-011
Sample type	Sample
Determination start	2024-02-27 22:56:49 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77209
Sample Position	130
Comment 1	300.0 CBN
Comment 2	

Anions



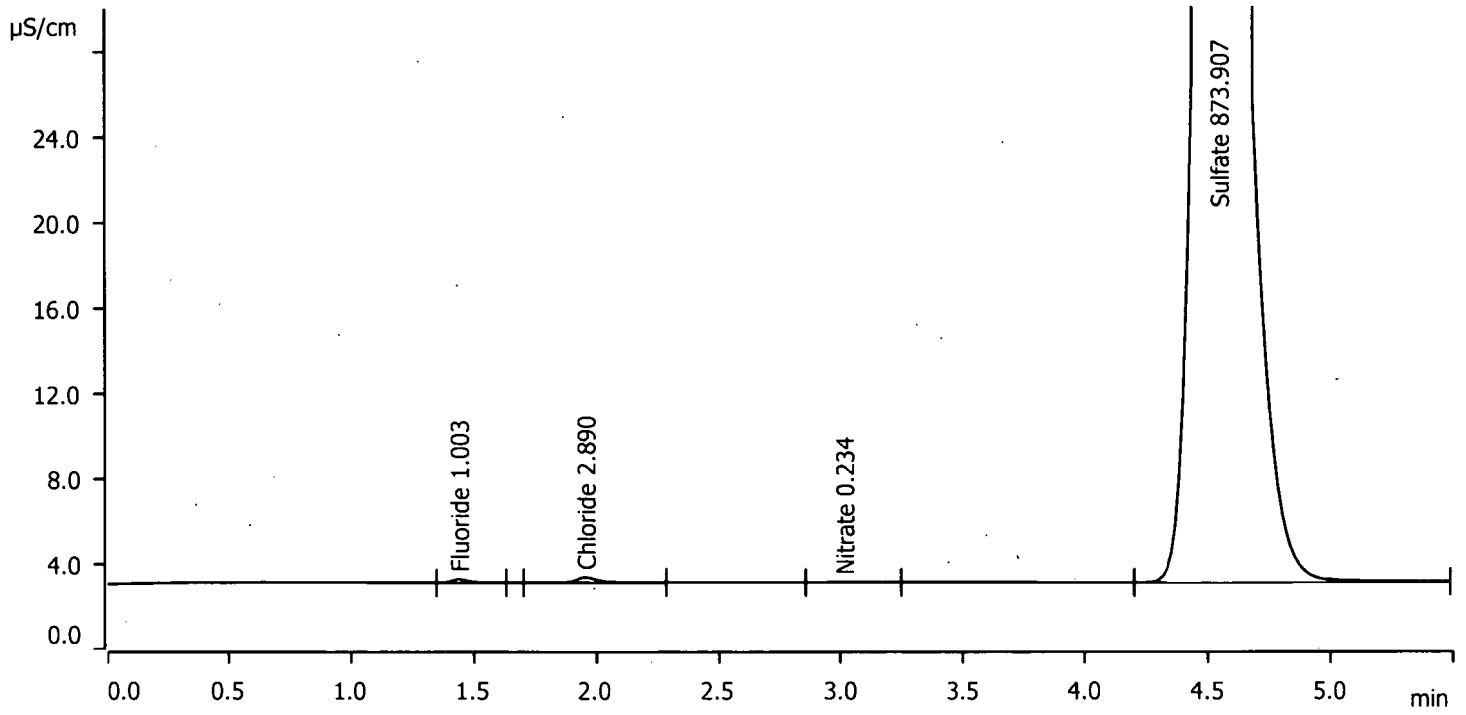
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.008	0.701	Fluoride	BB
2	1.96	0.995	85.331	Chloride	BB
3	4.54	13.804	788.457	Sulfate	BB

Sample data

Ident	R2401541-013
Sample type	Sample
Determination start	2024-02-27 23:03:48 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77210
Sample Position	131
Comment 1	300.0 CBN
Comment 2	

Anions



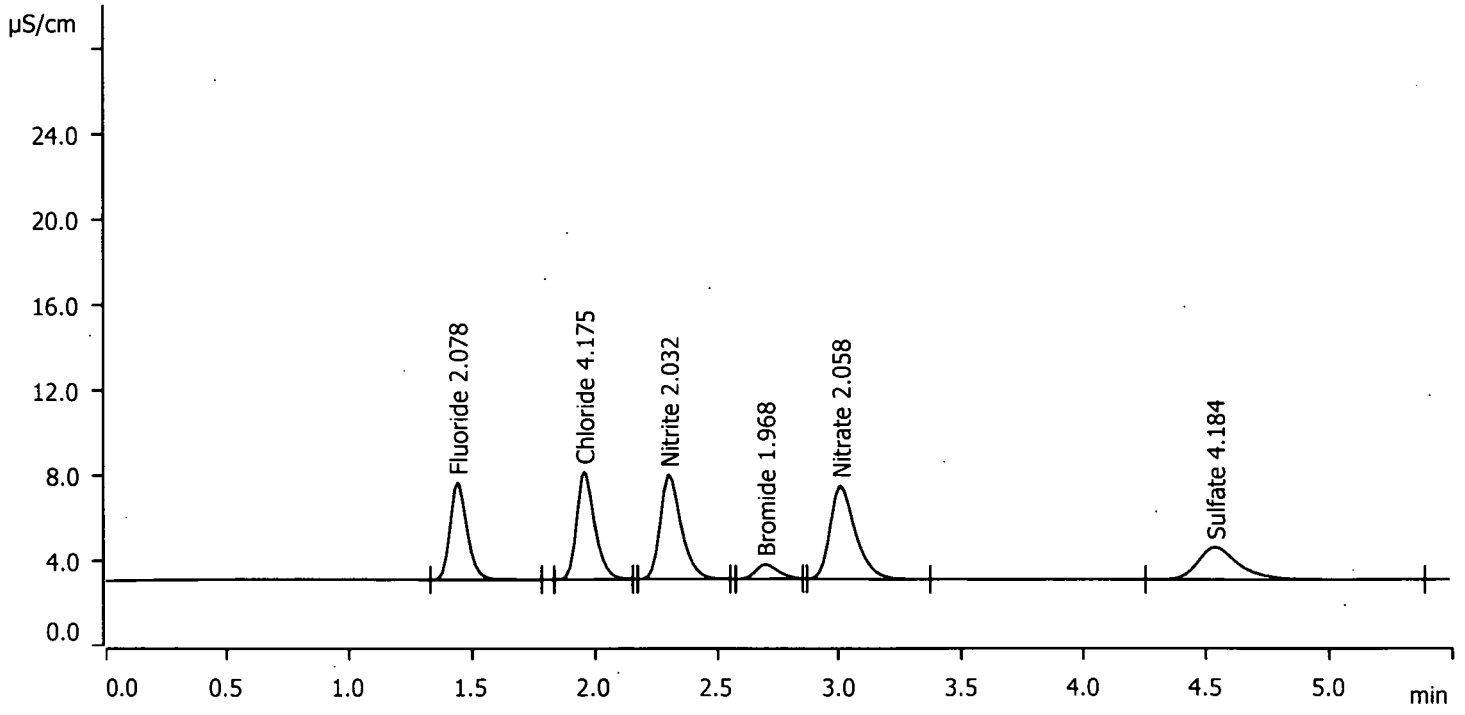
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.013	1.003	Fluoride	BB
2	1.96	0.024	2.890	Chloride	BB
3	3.01	0.002	0.234	Nitrate	BB
4	4.55	16.352	873.907	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-02-27 23:10:48 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77211
Sample Position	132
Comment 1	300.0/9056A
Comment 2	

Anions



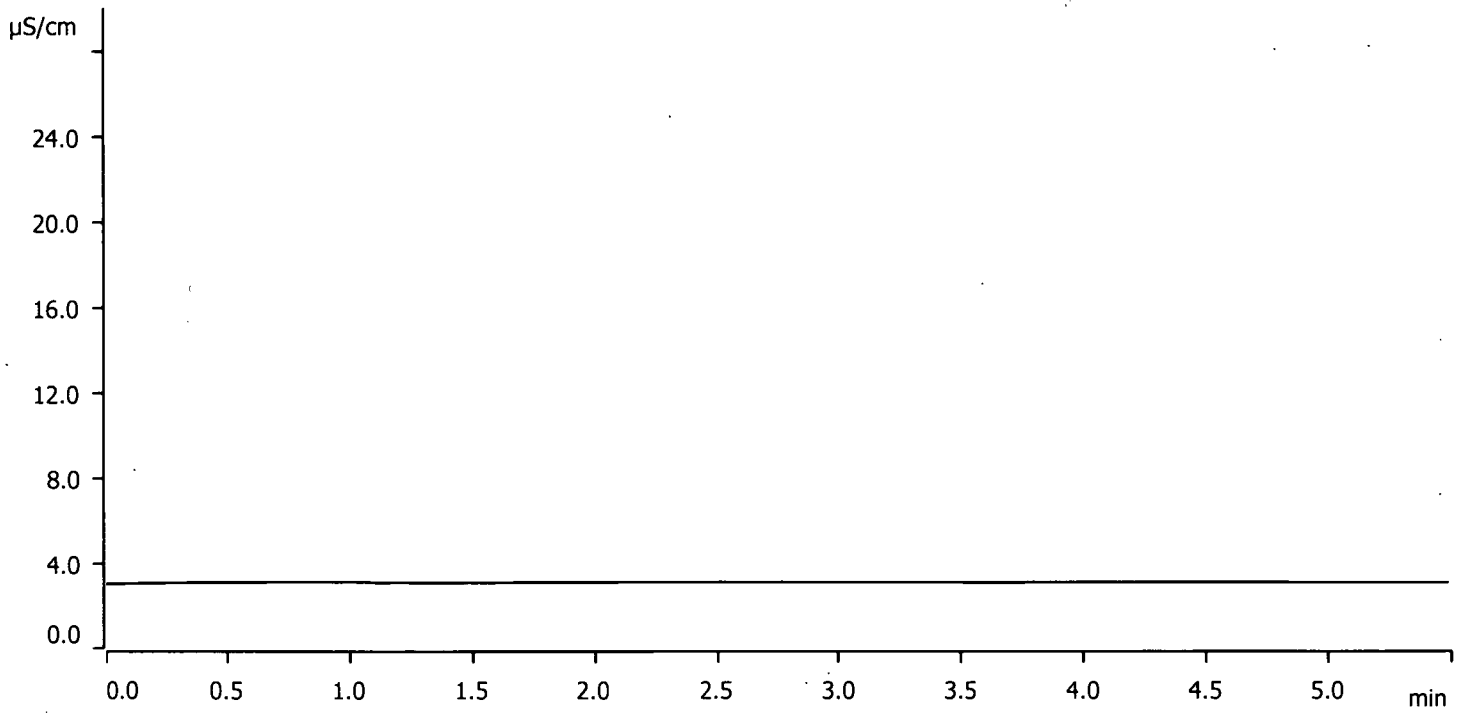
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.359	2.078	Fluoride	BB
2	1.96	0.428	4.175	Chloride	BB
3	2.31	0.490	2.032	Nitrite	BB
4	2.70	0.073	1.968	Bromide	BB
5	3.01	0.518	2.058	Nitrate	BB
6	4.53	0.292	4.184	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-02-27 23:17:49 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77212
Sample Position	133
Comment 1	300.0/9056A
Comment 2	

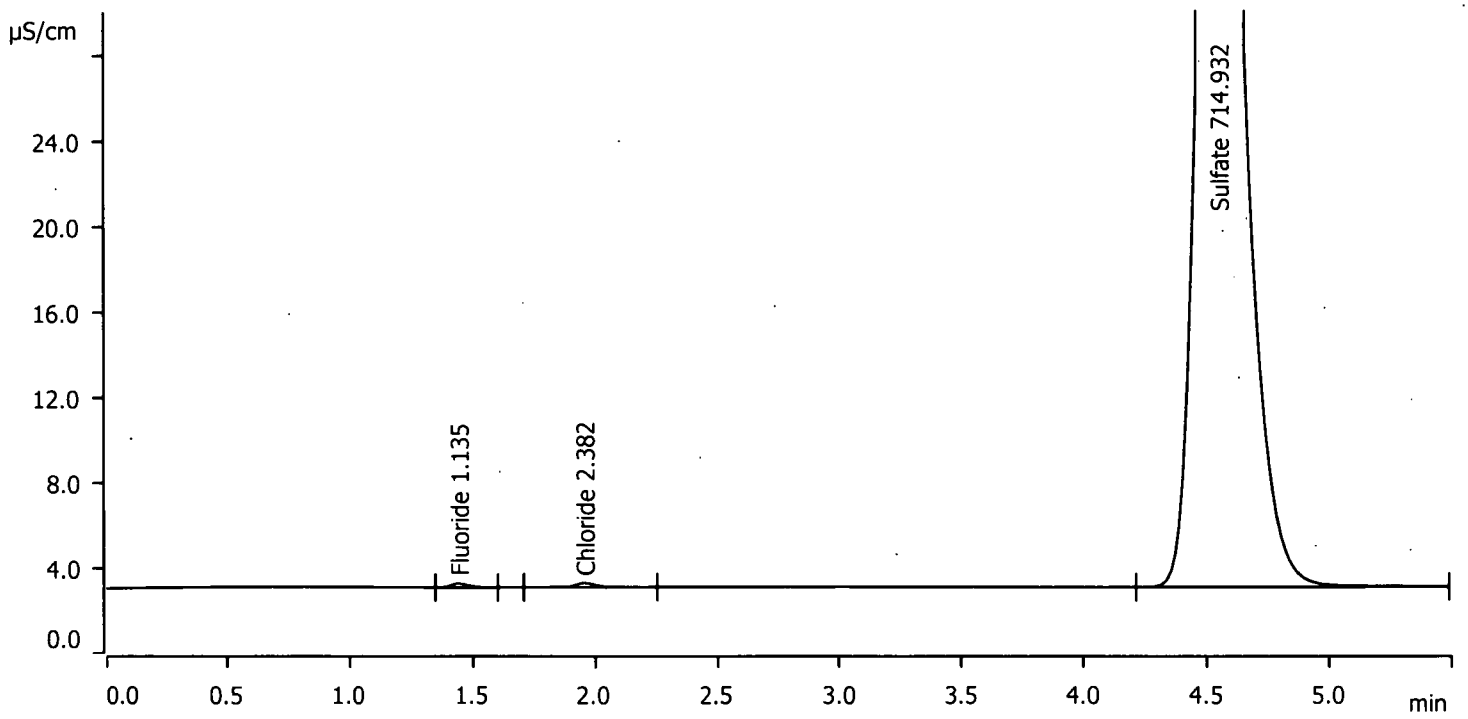
Anions



Sample data

Ident	R2401541-015
Sample type	Sample
Determination start	2024-02-27 23:24:46 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77213
Sample Position	134
Comment 1	300.0 CBN
Comment 2	

Anions



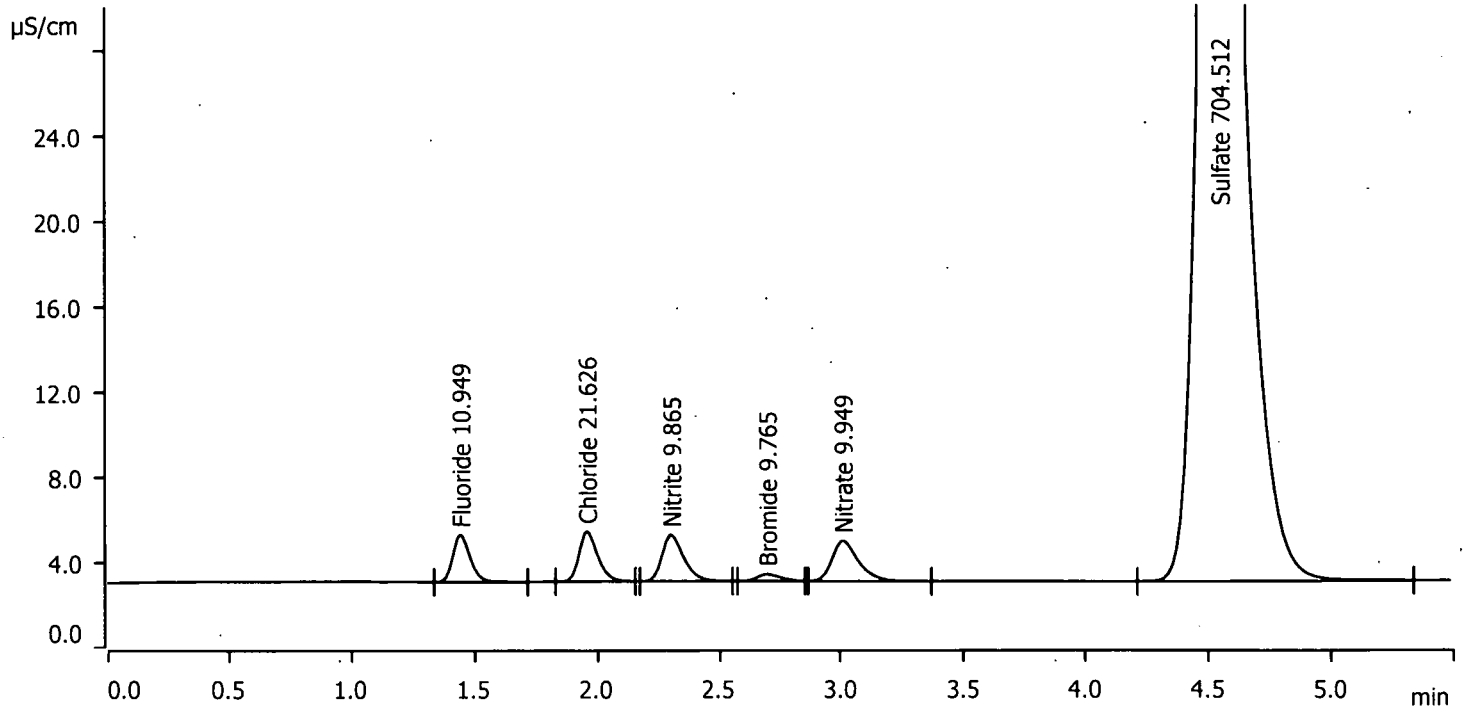
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.015	1.135	Fluoride	BB
2	1.96	0.019	2.382	Chloride	BB
3	4.55	11.775	714.932	Sulfate	BB

Sample data

Ident	R2401541-015 MS
Sample type	Sample
Determination start	2024-02-27 23:31:46 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77214
Sample Position	135
Comment 1	300.0 CBN
Comment 2	

Anions



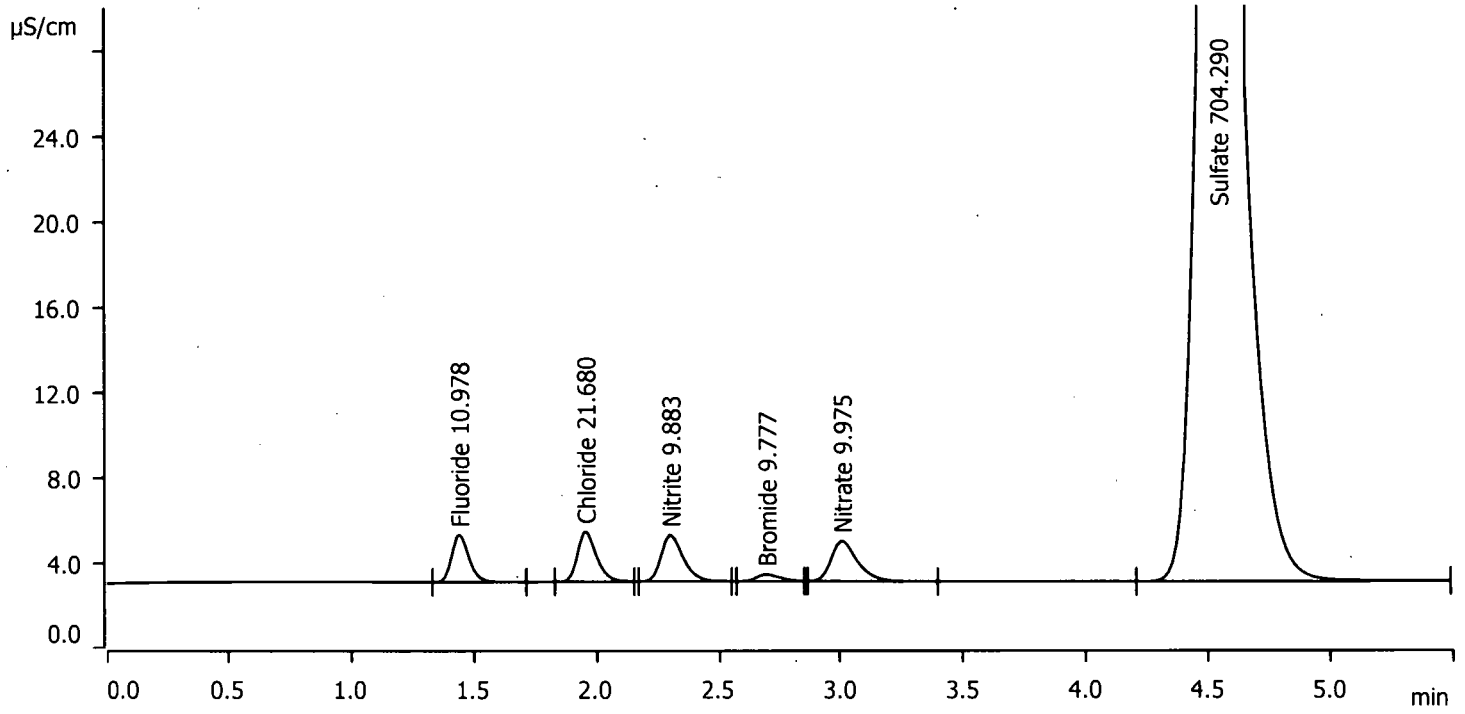
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.179	10.949	Fluoride	BB
2	1.96	0.207	21.626	Chloride	BB
3	2.31	0.224	9.865	Nitrite	BB
4	2.70	0.035	9.765	Bromide	BB
5	3.01	0.232	9.949	Nitrate	BB
6	4.55	11.500	704.512	Sulfate	BB

Sample data

Ident	R2401541-015 MSD
Sample type	Sample
Determination start	2024-02-27 23:38:47 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77215
Sample Position	136
Comment 1	300.0 CBN
Comment 2	

Anions



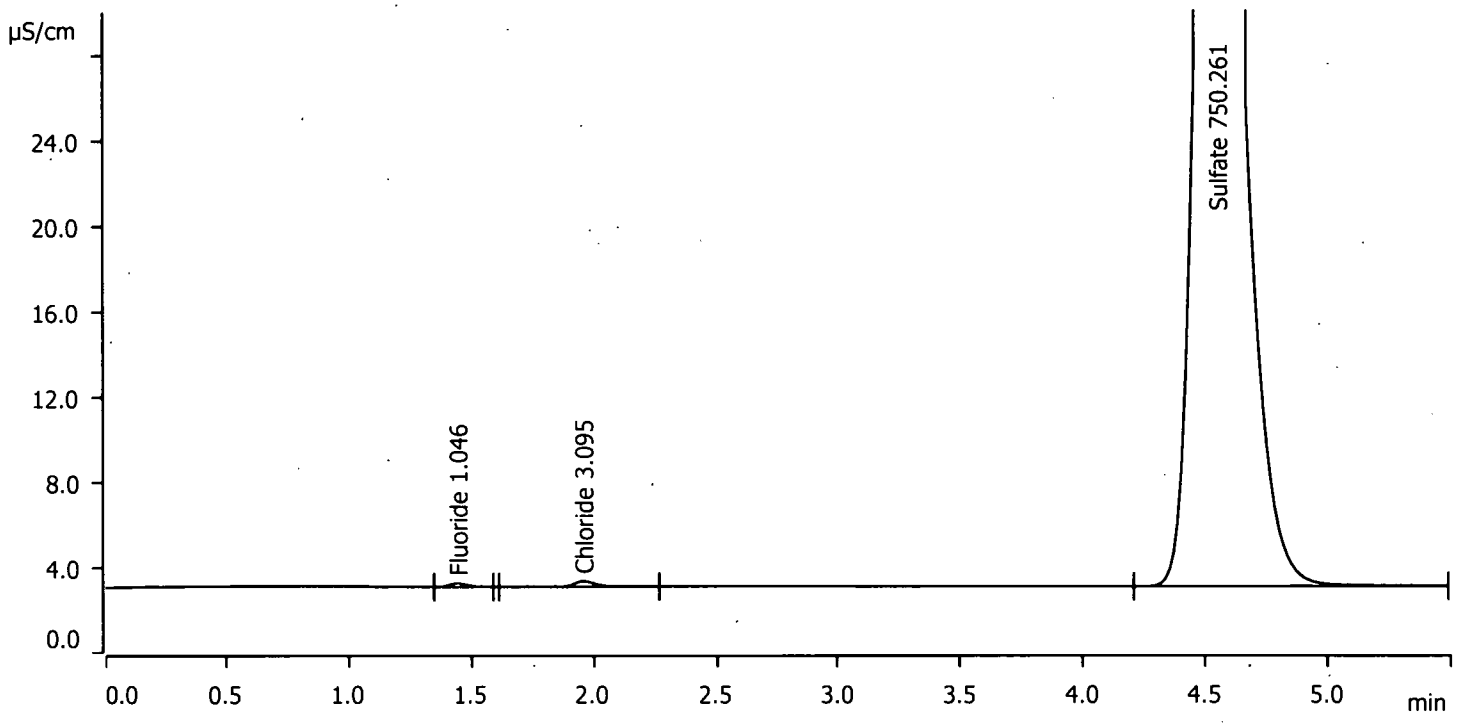
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.180	10.978	Fluoride	BB
2	1.96	0.207	21.680	Chloride	BB
3	2.30	0.224	9.883	Nitrite	BB
4	2.70	0.035	9.777	Bromide	BB
5	3.01	0.233	9.975	Nitrate	BB
6	4.54	11.494	704.290	Sulfate	BB

Sample data

Ident	R2401541-017
Sample type	Sample
Determination start	2024-02-27 23:45:45 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77216
Sample Position	137
Comment 1	300.0 CBN
Comment 2	

Anions



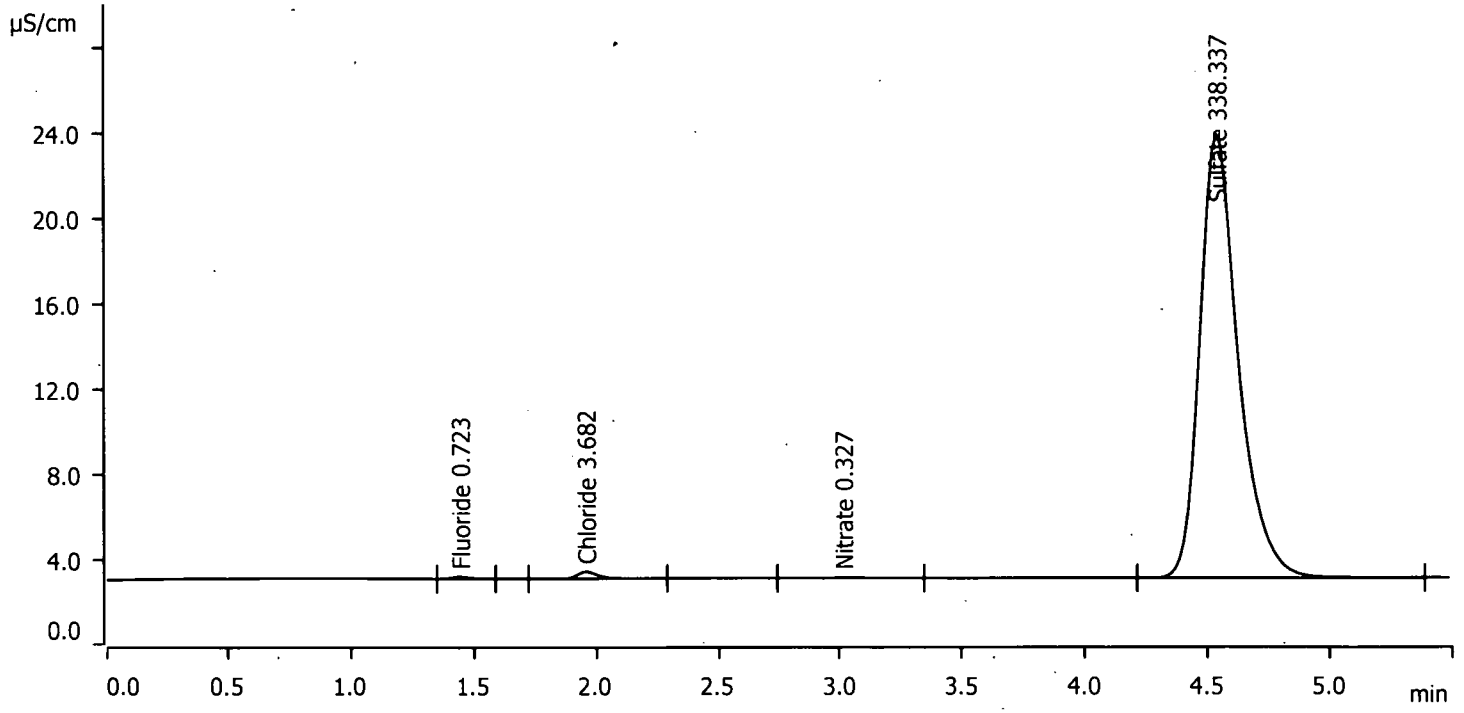
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.014	1.046	Fluoride	BB
2	1.96	0.025	3.095	Chloride	BB
3	4.55	12.731	750.261	Sulfate	BB

Sample data

Ident	R2401541-019
Sample type	Sample
Determination start	2024-02-27 23:52:43 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77217
Sample Position	138
Comment 1	300.0 CBN
Comment 2	

Anions



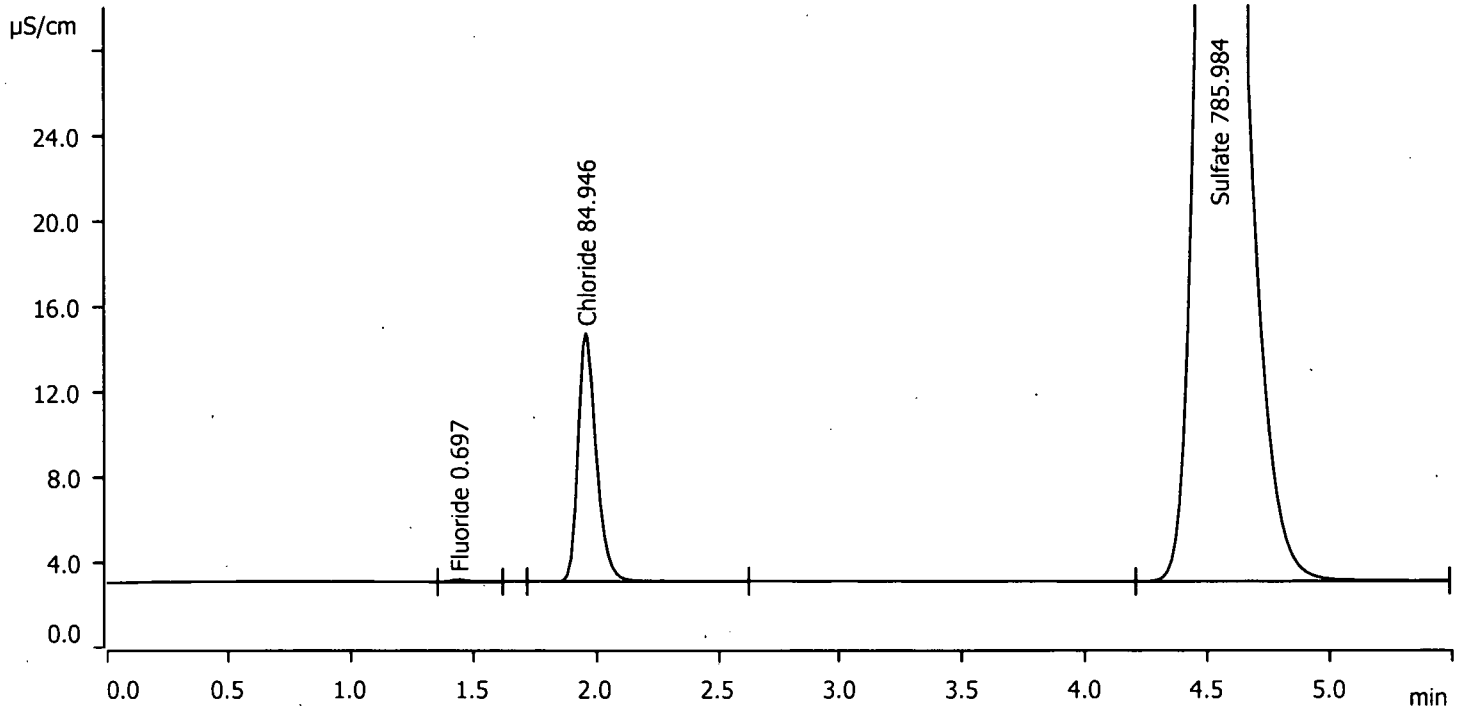
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.008	0.723	Fluoride	BB
2	1.96	0.031	3.682	Chloride	BB
3	3.01	0.004	0.327	Nitrate	BB
4	4.54	3.776	338.337	Sulfate	BB

Sample data

Ident	R2401541-021
Sample type	Sample
Determination start	2024-02-27 23:59:43 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77218
Sample Position	139
Comment 1	300.0 CBN
Comment 2	

Anions



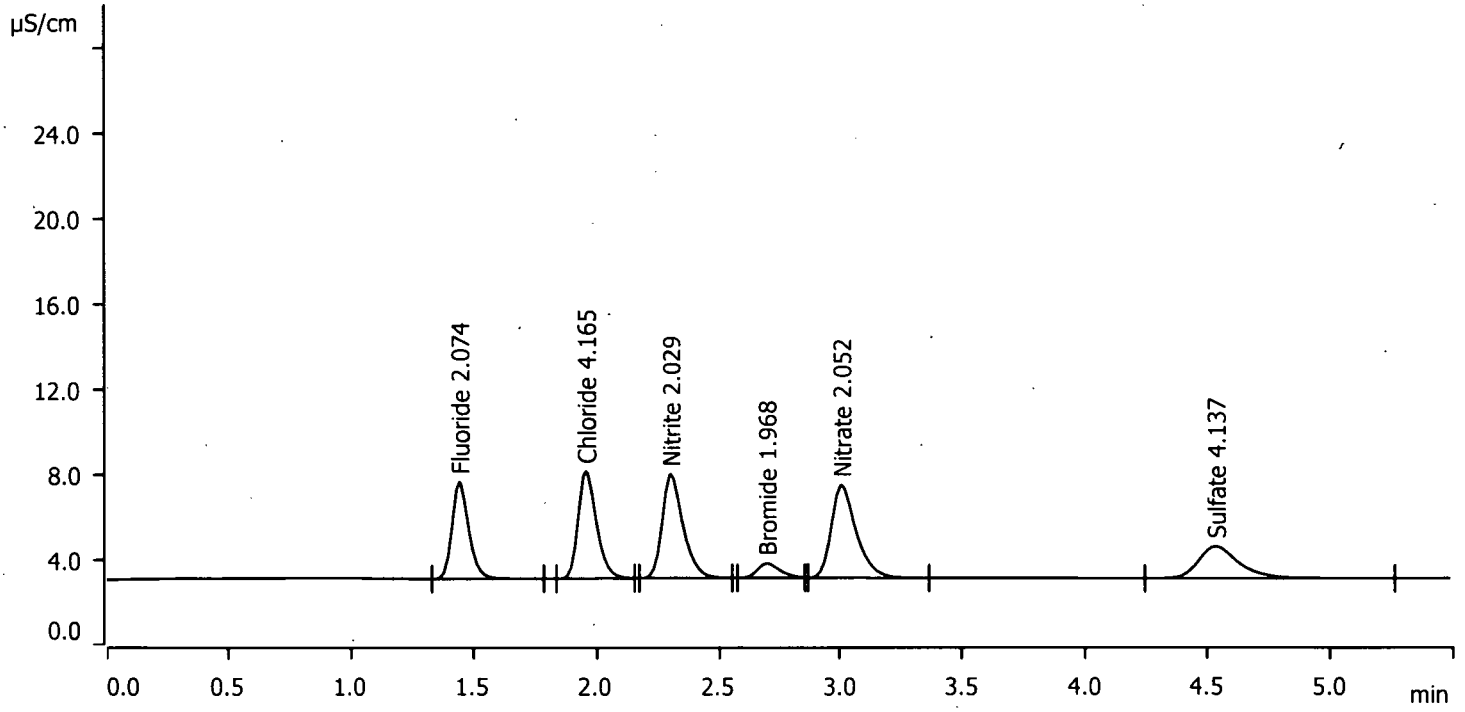
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.008	0.697	Fluoride	BB
2	1.96	0.990	84.946	Chloride	BB
3	4.55	13.733	785.984	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-02-28 00:06:39 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77219
Sample Position	140
Comment 1	300.0/9056A
Comment 2	

Anions



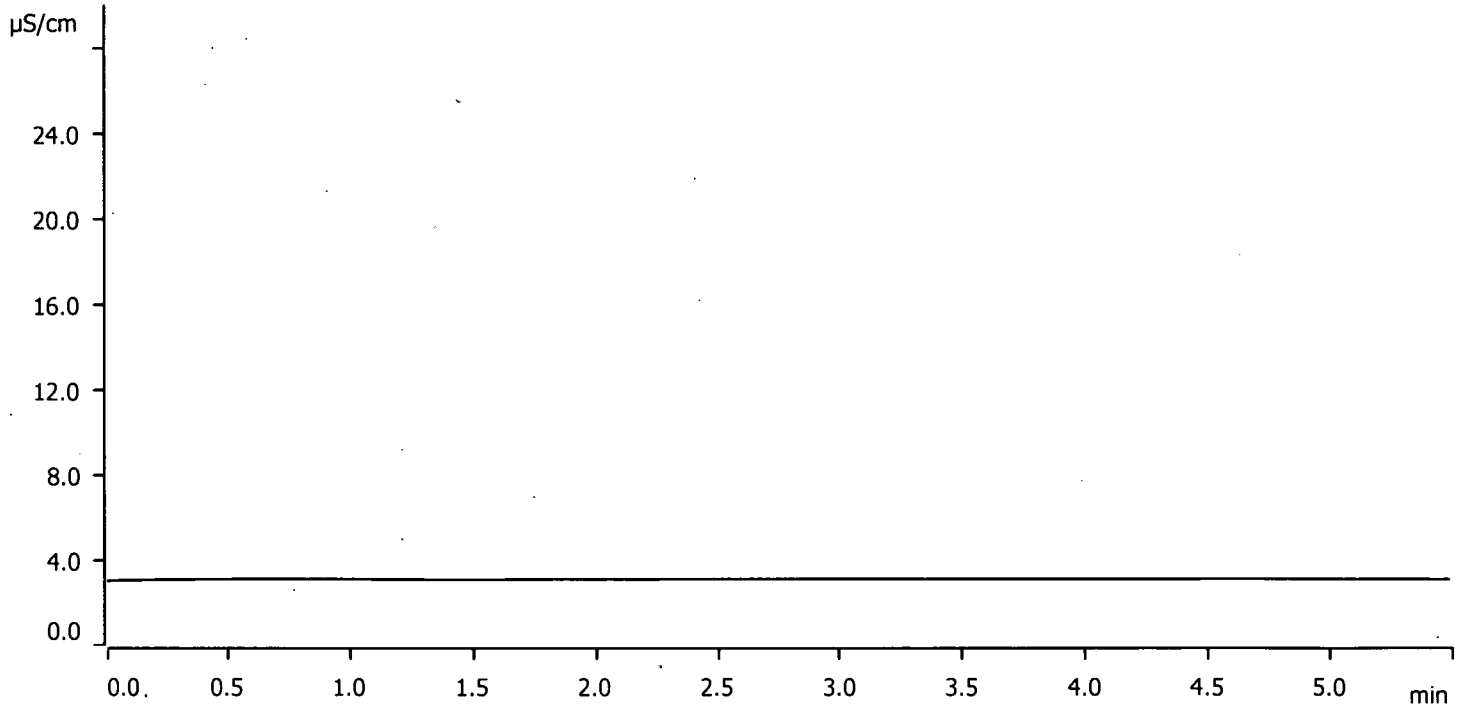
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.359	2.074	Fluoride	BB
2	1.96	0.427	4.165	Chloride	BB
3	2.31	0.489	2.029	Nitrite	BB
4	2.70	0.073	1.968	Bromide	BB
5	3.01	0.516	2.052	Nitrate	BB
6	4.53	0.289	4.137	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-02-28 00:13:39 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77220
Sample Position	141
Comment 1	300.0/9056A
Comment 2	

Anions



ALS Environmental

1575 Jefferson Road, Building 300, Suite 360, Rochester, New York 14623

Ion Chromatography Cover Sheet

Instrument: Metrohm IC 930 (IC#10)

Column: Dionex IonPac AS22-Fast (Installed 12/27/2023)

Curve Date: 12/27/23 **Loop size: 25 uL Loop**

Analyst: KW **Analysis Date:** 2/27/24

Balance ID for Soil Preparation: NA

Is copy of LCS attached to run? (YES) / NO

Method Filename: 10-122723FAST

Standards Prep Dates & Log ID's:

Std Type	*Prep Date*	*Log ID*		*Std Type*	*Prep Date*	*Log ID*
Calibration Intermediate	11/30/2023	232528		Working Calibration Stds	12/27/2023	WC236013D
LCS / MS Intermediate	1/30/2024	233462		Working LCS/MS Standard	02/27/2024	WC236088B
ICV Intermediate	12/06/2023	232572		Working ICV Standard	12/27/2023	WC236025A
CCV Intermediate	02/21/2024	233800		Working CCV Standard	02/27/2024	WC236028E

Original Retention Times for this method are based on Standard 6 and are as follows:

Fluoride: 1.45	Bromide: 2.76
Chloride: 1.99	Nitrate: 3.08
Nitrite: 2.35	Sulfate: 4.67

Additional Comments: Column Serial Number: 231004231
Linear Range Verification (High Standard) Analyzed: 08/29/2023 – Due Every Six Months

ICV / CCV PREP

(A 1:1 dilution of the Reference Intermediate Stock is done daily.)

Analyte	ICV / CCV Intermediate Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst / Date Prepped	Lot ID	Exp. Date	Matrix H_2SO_4 / NaOH / DI	H_2SO_4 / NaOH Lot #
F	233800	4.00	5.0	10.0	2.00	2/21/24 km	A	2/22/24	DI	—
Cl	exp: 8/8/24	8.00			4.00	2/22/24 km	B	2/23/24	DI	—
NO_2		4.00			2.00	2/23/24 km	C	2/24/24	DI	—
Br		4.00			2.00	2/26/24 km	D	2/27/24	DI	—
NO_3		4.00			2.00	2/27/24 km	E	2/28/24	DI	-
OPO_4		4.00			2.00		F			
SO_4		8.00			4.00		G			
							H			
							I			
							J			
							K			
							L			
							M			
							N			
							O			
							P			
							Q			
							R			

LCS Prep

(Stocks delivered using volumetric glassware and brought to volume with DI. LCS expires after 7 days; if NO_2 is needed, LCS must be prepared daily.)

(MS prepared fresh daily using same volume of intermediate stock added to 100mLs sample. MS not prepared volumetrically.)

Analyte	Calibration Intermediate Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst / Date Prepped	Lot ID	Exp. Date	Matrix H_2SO_4 / NaOH / DI	H_2SO_4 / NaOH Lot #
F	233462	50	2.0	200	1.0	KW 2/26/24	A	3/4/24	DI	–
Cl	exp 3/31/24	100			2.0	KW 2/27/24	B	3/5/24	DI	–
NO_2		50			1.0		C			
Br		50			1.0		D			
NO_3		50			1.0		E			
OPO_4		50			1.0		F			
SO_4		100			2.0		G			
							H			
							I			
							J			
							K			
							L			
							M			
							N			
							O			
							P			
							Q			
							R			

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 833417 **Method/Testcode:** 300.0/Chloride

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ2402066-01	Chloride	CCV		Water	4.21 mg/L	10 mL	4.21 mg/L	1					2/26/24 13:45	N	IV
RQ2402066-01	Fluoride, undistilled	CCV		Water	2.08 mg/L	10 mL	2.08 mg/L	1					2/26/24 13:45	N	IV
RQ2402066-01	Sulfate	CCV		Water	4.16 mg/L	10 mL	4.16 mg/L	1					2/26/24 13:45	N	IV
RQ2402066-02	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			2/26/24 13:52	N	IV
RQ2402066-02	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			2/26/24 13:52	N	IV
RQ2402066-02	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/26/24 13:52	N	IV
RQ2402066-03	Chloride	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			2/26/24 13:52	N	IV
RQ2402066-03	Fluoride, undistilled	MB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			2/26/24 13:52	N	IV
RQ2402066-03	Sulfate	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/26/24 13:52	N	IV
RQ2402066-04	Chloride	LCS		Water	1.99 mg/L	10 mL	1.99 mg/L	1	0.05	0.20	100		2/26/24 13:59	N	IV
RQ2402066-04	Fluoride, undistilled	LCS		Water	1.01 mg/L	10 mL	1.01 mg/L	1	0.010	0.10	101		2/26/24 13:59	N	IV
RQ2402066-04	Sulfate	LCS		Water	2.03 mg/L	10 mL	2.03 mg/L	1	0.04	0.20	101		2/26/24 13:59	N	IV
R2401306-003	Fluoride, undistilled	N/A		Water	0.56 mg/L	10 mL	0.56 mg/L	1	0.010	0.10			2/26/24 14:47	N	IV
R2401267-001	Chloride	N/A		Drinking Water	40.18 mg/L	10 mL	40.2 mg/L	10	0.5	2.0			2/26/24 14:53	N	II
R2401306-003	Sulfate	N/A		Water	394.86 mg/L	10 mL	395 mg/L	40	1.6	8.0			2/26/24 15:21	N	IV
R2401365-002	Fluoride, undistilled	N/A		Water	2.77 mg/L	10 mL	2.77 mg/L	1	0.010	0.10			2/26/24 15:28	N	II
R2401365-003	Fluoride, undistilled	N/A		Water	4.88 mg/L	10 mL	4.88 mg/L	3	0.03	0.30			2/26/24 15:35	N	II
RQ2402066-05	Chloride	CCV		Water	4.22 mg/L	10 mL	4.22 mg/L	1					2/26/24 15:42	N	II
RQ2402066-05	Fluoride, undistilled	CCV		Water	2.08 mg/L	10 mL	2.08 mg/L	1					2/26/24 15:42	N	II
RQ2402066-05	Sulfate	CCV		Water	4.17 mg/L	10 mL	4.17 mg/L	1					2/26/24 15:42	N	II
RQ2402066-06	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			2/26/24 15:49	N	II
RQ2402066-06	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			2/26/24 15:49	N	II
RQ2402066-06	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/26/24 15:49	N	II
R2401366-001	Fluoride, undistilled	N/A		Water	6.20 mg/L	10 mL	6.20 mg/L	2	0.02	0.20			2/26/24 15:55	Y	II
RQ2402066-09	Fluoride, undistilled	MS	R2401366-001	Water	8.08 mg/L	10 mL	8.08 mg/L	2	0.02	0.20	94		2/26/24 16:02	N	II
RQ2402066-10	Fluoride, undistilled	DMS	R2401366-001	Water	8.04 mg/L	10 mL	8.04 mg/L	2	0.02	0.20	92	<1	2/26/24 16:09	N	II
R2401141-002	Chloride	N/A		Water	9845.23 mg/L	10 mL	9850 mg/L	2000	90	400			2/26/24 16:16	N	IV
R2401141-004	Chloride	N/A		Water	408.87 mg/L	10 mL	409 mg/L	200	9	40			2/26/24 16:30	N	IV
R2401141-007	Chloride	N/A		Water	256.08 mg/L	10 mL	256 mg/L	50	3	10			2/26/24 16:51	N	IV
RQ2402066-07	Chloride	CCV		Water	4.19 mg/L	10 mL	4.19 mg/L	1					2/26/24 17:04	N	IV
RQ2402066-07	Fluoride, undistilled	CCV		Water	2.08 mg/L	10 mL	2.08 mg/L	1					2/26/24 17:04	N	IV
RQ2402066-07	Sulfate	CCV		Water	4.14 mg/L	10 mL	4.14 mg/L	1					2/26/24 17:04	N	IV
RQ2402066-08	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			2/26/24 17:11	N	IV
RQ2402066-08	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			2/26/24 17:11	N	IV
RQ2402066-08	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/26/24 17:11	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 833418 **Method/Testcode:** 300.0/Chloride

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2Q2402067-01	Chloride	CCV		Water	4.19 mg/L	10 mL	4.19 mg/L	1					2/26/24 17:04	N	IV
2Q2402067-01	Fluoride, undistilled	CCV		Water	2.08 mg/L	10 mL	2.08 mg/L	1					2/26/24 17:04	N	IV
2Q2402067-01	Sulfate	CCV		Water	4.14 mg/L	10 mL	4.14 mg/L	1					2/26/24 17:04	N	IV
2Q2402067-02	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			2/26/24 17:11	N	IV
2Q2402067-02	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			2/26/24 17:11	N	IV
2Q2402067-02	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/26/24 17:11	N	IV
2Q2402067-03	Chloride	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			2/26/24 17:11:00	N	IV
2Q2402067-03	Fluoride, undistilled	MB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			2/26/24 17:11:00	N	IV
2Q2402067-03	Sulfate	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/26/24 17:11:00	N	IV
2Q2402067-04	Chloride	LCS		Water	1.98 mg/L	10 mL	1.98 mg/L	1	0.05	0.20	99		2/26/24 17:18	N	IV
2Q2402067-04	Fluoride, undistilled	LCS		Water	1.02 mg/L	10 mL	1.02 mg/L	1	0.010	0.10	102		2/26/24 17:18	N	IV
2Q2402067-04	Sulfate	LCS		Water	2.03 mg/L	10 mL	2.03 mg/L	1	0.04	0.20	102		2/26/24 17:18	N	IV
2401141-009	Chloride	N/A		Water	0.00 mg/L	10 mL	2.0 mg/L U	10	0.5	2.0			2/26/24 17:25	N	IV
2401141-010	Chloride	N/A		Water	0.00 mg/L	10 mL	2.0 mg/L U	10	0.5	2.0			2/26/24 17:32	N	IV
2401141-001	Chloride	N/A		Water	6142.85 mg/L	10 mL	6140 mg/L	1000	50	200			2/26/24 17:39	Y	IV
2Q2402067-05	Chloride	MS	R2401141-001	Water	7894.98 mg/L	10 mL	7890 mg/L	1000	50	200	88*		2/26/24 17:46	N	IV
2Q2402067-06	Chloride	DMS	R2401141-001	Water	7947.26 mg/L	10 mL	7950 mg/L	1000	50	200	90	<1	2/26/24 17:53	N	IV
2401363-002	Fluoride, undistilled	N/A		Water	1.03 mg/L	10 mL	1.03 mg/L	1	0.010	0.10			2/26/24 18:06	N	IV
2401363-002	Chloride	N/A		Water	55.82 mg/L	10 mL	55.8 mg/L	10	0.5	2.0			2/26/24 18:13	N	IV
2401363-002	Sulfate	N/A		Water	331.76 mg/L	10 mL	332 mg/L	40	1.6	8.0			2/26/24 18:20	N	IV
2Q2402067-07	Chloride	CCV		Water	4.18 mg/L	10 mL	4.18 mg/L	1					2/26/24 18:27	N	IV
2Q2402067-07	Fluoride, undistilled	CCV		Water	2.08 mg/L	10 mL	2.08 mg/L	1					2/26/24 18:27	N	IV
2Q2402067-07	Sulfate	CCV		Water	4.14 mg/L	10 mL	4.14 mg/L	1					2/26/24 18:27	N	IV
2Q2402067-08	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			2/26/24 18:34	N	IV
2Q2402067-08	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			2/26/24 18:34	N	IV
2Q2402067-08	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/26/24 18:34	N	IV
2401363-020	Fluoride, undistilled	N/A		Water	0.79 mg/L	10 mL	0.79 mg/L	1	0.010	0.10			2/26/24 18:41	N	IV
2401363-020	Chloride	N/A		Water	73.78 mg/L	10 mL	73.8 mg/L	10	0.5	2.0			2/26/24 18:48	N	IV
2Q2402067-11	Chloride	MS	R2401363-020	Water	89.30 mg/L	10 mL	89.3 mg/L	10	0.5	2.0	78*		2/26/24 18:54	N	IV
2Q2402067-12	Chloride	DMS	R2401363-020	Water	89.89 mg/L	10 mL	89.9 mg/L	10	0.5	2.0	81*	<1	2/26/24 19:01	N	IV
2401363-020	Sulfate	N/A		Water	268.61 mg/L	10 mL	269 mg/L	40	1.6	8.0			2/26/24 19:08	N	IV
2401374-001	Chloride	N/A		Water	497.69 mg/L	10 mL	498 mg/L	100	5	20			2/26/24 19:15	N	II
2401374-001	Sulfate	N/A		Water	9292.24 mg/L	10 mL	9290 mg/L	1000	40	200			2/26/24 19:22	N	II
2401280-003	Sulfate	N/A		Water	80.94 mg/L	10 mL	80.9 mg/L	10	0.4	2.0			2/26/24 19:43	N	IV
2Q2402067-09	Chloride	CCV		Water	4.16 mg/L	10 mL	4.16 mg/L	1					2/26/24 19:50	N	IV
2Q2402067-09	Fluoride, undistilled	CCV		Water	2.07 mg/L	10 mL	2.07 mg/L	1					2/26/24 19:50	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 833418 **Method/Testcode:** 300.0/SO4

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2402067-09	Sulfate	CCV		Water	4.11 mg/L	10 mL	4.11 mg/L	1					2/26/24 19:50	N	IV
KQ2402067-10	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			2/26/24 19:56	N	IV
KQ2402067-10	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			2/26/24 19:56	N	IV
KQ2402067-10	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/26/24 19:56	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 833419 **Method/Testcode:** 300.0/SO4

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ2402068-01	Sulfate	CCV		Water	4.11 mg/L	10 mL	4.11 mg/L	1					2/26/24 19:50	N	IV
RQ2402068-02	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/26/24 19:56	N	IV
RQ2402068-03	Sulfate	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/26/24 19:56:00	N	IV
RQ2402068-04	Sulfate	LCS		Water	2.08 mg/L	10 mL	2.08 mg/L	1	0.04	0.20	104		2/26/24 20:03	N	IV
R2401280-004	Sulfate	N/A		Water	0.00 mg/L	10 mL	2.0 mg/L U	10	0.4	2.0			2/26/24 20:10	N	IV
R2401280-006	Sulfate	N/A		Water	23.58 mg/L	10 mL	23.6 mg/L	10	0.4	2.0			2/26/24 20:17	N	IV
RQ2402068-05	Sulfate	MS	R2401280-006	Water	42.23 mg/L	10 mL	42.2 mg/L	10	0.4	2.0	93		2/26/24 20:24	N	IV
RQ2402068-06	Sulfate	DMS	R2401280-006	Water	42.07 mg/L	10 mL	42.1 mg/L	10	0.4	2.0	92	<1	2/26/24 20:31	N	IV
R2401280-008	Sulfate	N/A		Water	42.59 mg/L	10 mL	42.6 mg/L	10	0.4	2.0			2/26/24 20:39	N	IV
R2401280-009	Sulfate	N/A		Water	23.40 mg/L	10 mL	23.4 mg/L	10	0.4	2.0			2/26/24 20:46	N	IV
R2401280-010	Sulfate	N/A		Water	33.73 mg/L	10 mL	33.7 mg/L	10	0.4	2.0			2/26/24 20:53	N	IV
R2401280-011	Sulfate	N/A		Water	0.00 mg/L	10 mL	2.0 mg/L U	10	0.4	2.0			2/26/24 21:00	N	IV
R2401280-012	Sulfate	N/A		Water	0.00 mg/L	10 mL	2.0 mg/L U	10	0.4	2.0			2/26/24 21:07	N	IV
RQ2402068-07	Sulfate	CCV		Water	4.16 mg/L	10 mL	4.16 mg/L	1					2/26/24 21:14	N	IV
RQ2402068-08	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/26/24 21:20	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Determination overview IC 10 pipette: Anions/Boron 300.0 2/26/24 KW

	Method name	Determination start	Position	Ident	Dilution	Info 1	Info 2
1	10-122723FAST	2024-02-26 13:45:20 UTC-5	1	CCV	1	300.0/9056A	
2	10-122723FAST	2024-02-26 13:52:20 UTC-5	2	CCB	1	300.0/9056A	
3	10-122723FAST	2024-02-26 13:59:15 UTC-5	3	LCS	1	300.0/9056A	
4	10-122723FAST	2024-02-26 14:40:12 UTC-5	7	R2401267-001 DNR	10	300.0 CS	
5	10-122723FAST	2024-02-26 14:47:04 UTC-5	5	R2401306-003	1	300.0 F	
6	10-122723FAST	2024-02-26 14:53:59 UTC-5	4	R2401267-001	10	300.0 CS	
7	10-122723FAST	2024-02-26 15:00:52 UTC-5	6	R2401306-003 DNR	10	300.0 C	
8	10-122723FAST	2024-02-26 15:07:45 UTC-5	7	R2401306-003 MS DNR	10	300.0 C	
9	10-122723FAST	2024-02-26 15:14:38 UTC-5	8	R2401306-003 MSD DNR	10	300.0 C	
10	10-122723FAST	2024-02-26 15:21:32 UTC-5	9	R2401306-003	40	300.0 S	
11	10-122723FAST	2024-02-26 15:28:24 UTC-5	10	R2401365-002	1	300.0 F	
12	10-122723FAST	2024-02-26 15:35:17 UTC-5	11	R2401365-003	3	300.0 F	
13	10-122723FAST	2024-02-26 15:42:09 UTC-5	12	CCV	1	300.0/9056A	
14	10-122723FAST	2024-02-26 15:49:06 UTC-5	13	CCB	1	300.0/9056A	
15	10-122723FAST	2024-02-26 15:55:57 UTC-5	14	R2401366-001	2	300.0 F	
16	10-122723FAST	2024-02-26 16:02:50 UTC-5	15	R2401366-001 MS!	2	300.0 F	
17	10-122723FAST	2024-02-26 16:09:43 UTC-5	16	R2401366-001 MSD!	2	300.0 F	
18	10-122723FAST	2024-02-26 16:16:37 UTC-5	17	R2401141-002	2000	300.0 C	
19	10-122723FAST	2024-02-26 16:23:28 UTC-5	18	R2401141-003 DNR	100	300.0 C	
20	10-122723FAST	2024-02-26 16:30:22 UTC-5	19	R2401141-004	200	300.0 C	
21	10-122723FAST	2024-02-26 16:37:17 UTC-5	20	R2401141-005 DNR	50	300.0 C	
22	10-122723FAST	2024-02-26 16:44:11 UTC-5	21	R2401141-006 DNR	100	300.0 C	
23	10-122723FAST	2024-02-26 16:51:02 UTC-5	22	R2401141-007	50	300.0 C	
24	10-122723FAST	2024-02-26 16:57:54 UTC-5	23	R2401141-008	50	300.0 C	
25	10-122723FAST	2024-02-26 17:04:46 UTC-5	24	CCV	1	300.0/9056A	
26	10-122723FAST	2024-02-26 17:11:43 UTC-5	25	CCB	1	300.0/9056A	
27	10-122723FAST	2024-02-26 17:18:34 UTC-5	26	LCS	1	300.0/9056A	
28	10-122723FAST	2024-02-26 17:25:31 UTC-5	27	R2401141-009	10	300.0 C	
29	10-122723FAST	2024-02-26 17:32:23 UTC-5	28	R2401141-010	10	300.0 C	
30	10-122723FAST	2024-02-26 17:39:14 UTC-5	29	R2401141-001	1000	300.0 C	
31	10-122723FAST	2024-02-26 17:46:07 UTC-5	30	R2401141-001 MS!	1000	300.0 C	
32	10-122723FAST	2024-02-26 17:53:03 UTC-5	31	R2401141-001 MSD!	1000	300.0 C	
33	10-122723FAST	2024-02-26 17:59:56 UTC-5	32	R2401352-001 DNR	40	300.0 C	
34	10-122723FAST	2024-02-26 18:06:47 UTC-5	33	R2401363-002	1	300.0 F	
35	10-122723FAST	2024-02-26 18:13:41 UTC-5	34	R2401363-002	10	300.0 C	
36	10-122723FAST	2024-02-26 18:20:35 UTC-5	35	R2401363-002	40	300.0 S	
37	10-122723FAST	2024-02-26 18:27:28 UTC-5	36	CCV	1	300.0/9056A	
38	10-122723FAST	2024-02-26 18:34:21 UTC-5	37	CCB	1	300.0/9056A	
39	10-122723FAST	2024-02-26 18:41:12 UTC-5	38	R2401363-020	1	300.0 F	
40	10-122723FAST	2024-02-26 18:48:05 UTC-5	39	R2401363-020	10	300.0 C	
41	10-122723FAST	2024-02-26 18:54:58 UTC-5	40	R2401363-020 MS	10	300.0 C	
42	10-122723FAST	2024-02-26 19:01:52 UTC-5	41	R2401363-020 MSD	10	300.0 C	
43	10-122723FAST	2024-02-26 19:08:45 UTC-5	42	R2401363-020	40	300.0 S	
44	10-122723FAST	2024-02-26 19:15:37 UTC-5	43	R2401374-001	100	300.0 C	
45	10-122723FAST	2024-02-26 19:22:29 UTC-5	44	R2401374-001	1000	300.0 S	
46	10-122723FAST	2024-02-26 19:29:21 UTC-5	45	R2401387-001 DNR	1	300.0 F	
47	10-122723FAST	2024-02-26 19:36:18 UTC-5	46	R2401280-002 DNR	10	300.0 C	
48	10-122723FAST	2024-02-26 19:43:09 UTC-5	47	R2401280-003	10	300.0 C	
49	10-122723FAST	2024-02-26 19:50:02 UTC-5	48	CCV	1	300.0/9056A	
50	10-122723FAST	2024-02-26 19:56:55 UTC-5	49	CCB	1	300.0/9056A	
51	10-122723FAST	2024-02-26 20:03:45 UTC-5	50	LCS	1	300.0/9056A	
52	10-122723FAST	2024-02-26 20:10:39 UTC-5	51	R2401280-004	10	300.0 C	
53	10-122723FAST	2024-02-26 20:17:30 UTC-5	52	R2401280-006	10	300.0 C	
54	10-122723FAST	2024-02-26 20:24:22 UTC-5	53	R2401280-006 MS	10	300.0 C	
55	10-122723FAST	2024-02-26 20:31:15 UTC-5	54	R2401280-006 MSD	10	300.0 C	
56	10-122723FAST	2024-02-26 20:39:32 UTC-5	55	R2401280-008	10	300.0 C	
57	10-122723FAST	2024-02-26 20:46:26 UTC-5	56	R2401280-009	10	300.0 C	
58	10-122723FAST	2024-02-26 20:53:21 UTC-5	57	R2401280-010	10	300.0 C	
59	10-122723FAST	2024-02-26 21:00:15 UTC-5	58	R2401280-011	10	300.0 C	
60	10-122723FAST	2024-02-26 21:07:09 UTC-5	59	R2401280-012	10	300.0 C	
61	10-122723FAST	2024-02-26 21:14:00 UTC-5	60	CCV	1	300.0/9056A	
62	10-122723FAST	2024-02-26 21:20:53 UTC-5	61	CCB	1	300.0/9056A	

Sample Dilutions

Final Volume: 8-10mL - IC#3,10

Analyst: KW Date 2/26/24

Instrument: IC10 Analysis 3000

Common Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor
1/2	DI	4.5	4.5	1/2												
1/3	DI	3	6	1/3												
1/4	DI	2	6	1/4												
1/5	DI	2	8	1/5												
1/10	DI	1	9	1/10												
1/20	DI	3	3	1/2	1	9	1/20									
1/30	DI	3	6	1/3	1	9	1/30									
1/40	DI	1	3	1/4	1	9	1/40									
1/50	DI	1	4	1/5	1	9	1/50									
1/100	DI	1	9	1/10	1	9	1/100									
1/200	DI	3	3	1/2	1	9	1/20	1	9	1/200						
1/300	DI	3	6	1/3	1	9	1/30	1	9	1/300						
1/400	DI	1	3	1/4	1	9	1/40	1	9	1/400						
1/500	DI	1	4	1/5	1	9	1/50	1	9	1/500						
1/1000	DI	1	9	1/10	1	9	1/100	1	9	1/1000						
1/2000	DI	3	3	1/2	1	9	1/20	1	9	1/200	1	9	1/2000			
1/3000	DI	3	6	1/3	1	9	1/30	1	9	1/300	1	9	1/3000			
1/4000	DI	1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000			
1/10000	DI	1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000			
1/20000	DI	1	1	1/2	1	9	1/20	1	9	1/200	1	9	1/2000	1	9	1/20000
1/40000	DI	1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000	1	9	1/40000
1/100000	DI	1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000	1	9	1/100000

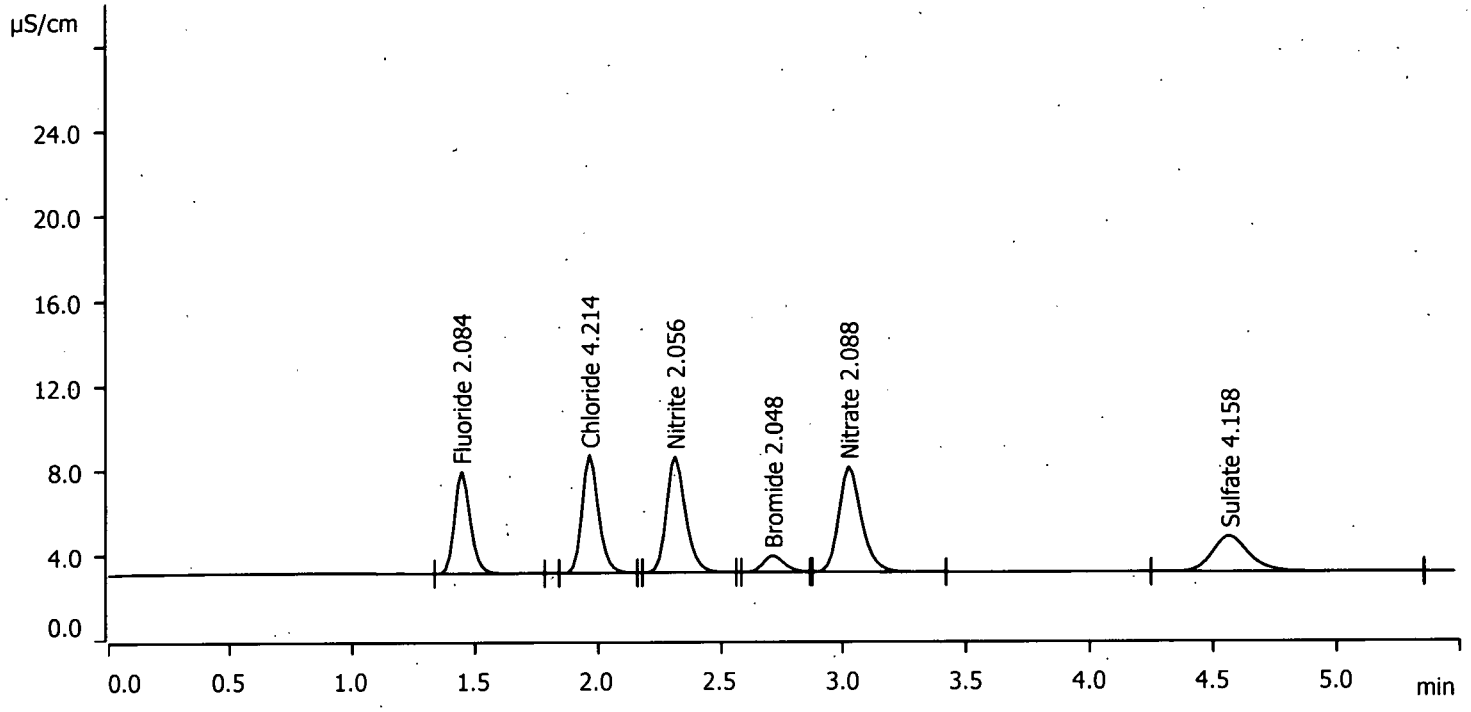
Special Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-02-26 13:45:20 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77006
Sample Position	1
Comment 1	300.0/9056A
Comment 2	

Anions



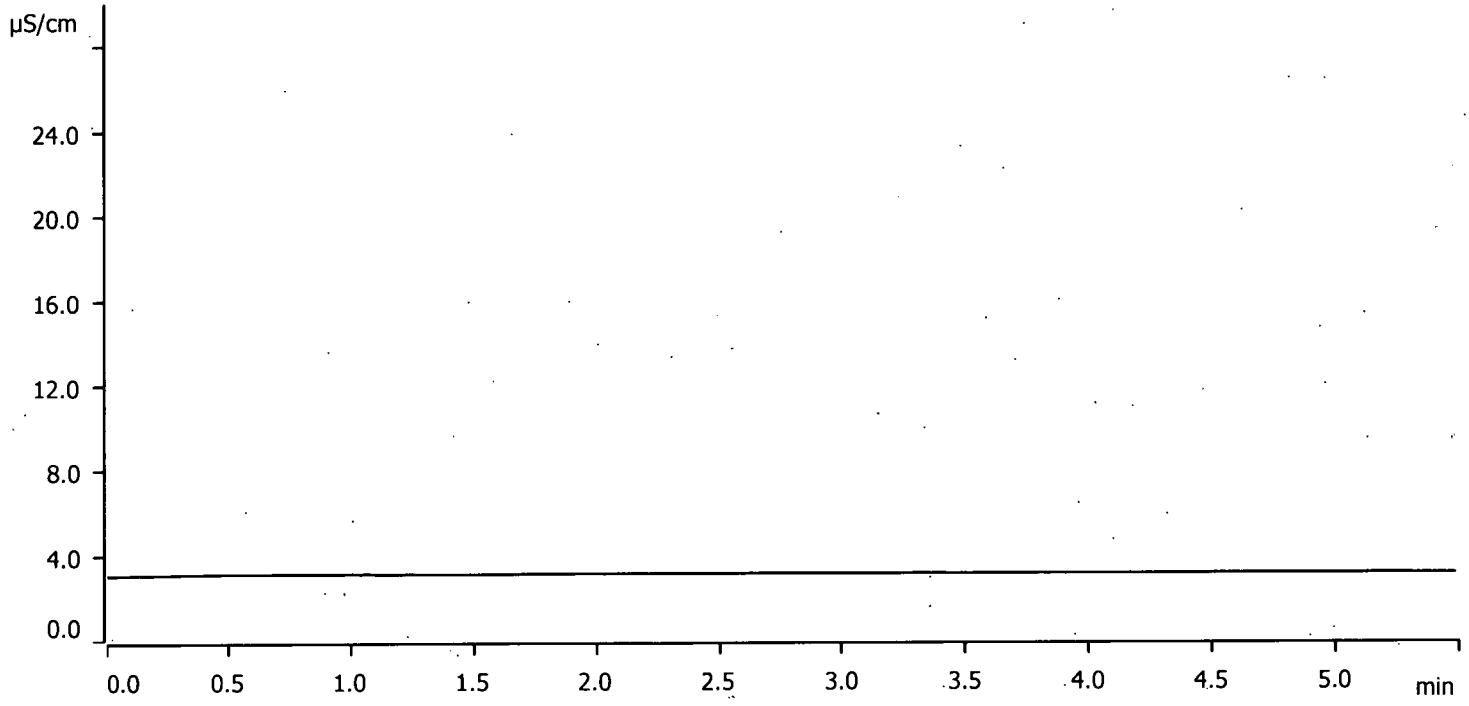
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.361	2.084	Fluoride	BB
2	1.97	0.432	4.214	Chloride	BB
3	2.32	0.496	2.056	Nitrite	BB
4	2.71	0.076	2.048	Bromide	BB
5	3.02	0.527	2.088	Nitrate	BB
6	4.56	0.290	4.158	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-02-26 13:52:20 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77007
Sample Position	2
Comment 1	300.0/9056A
Comment 2	

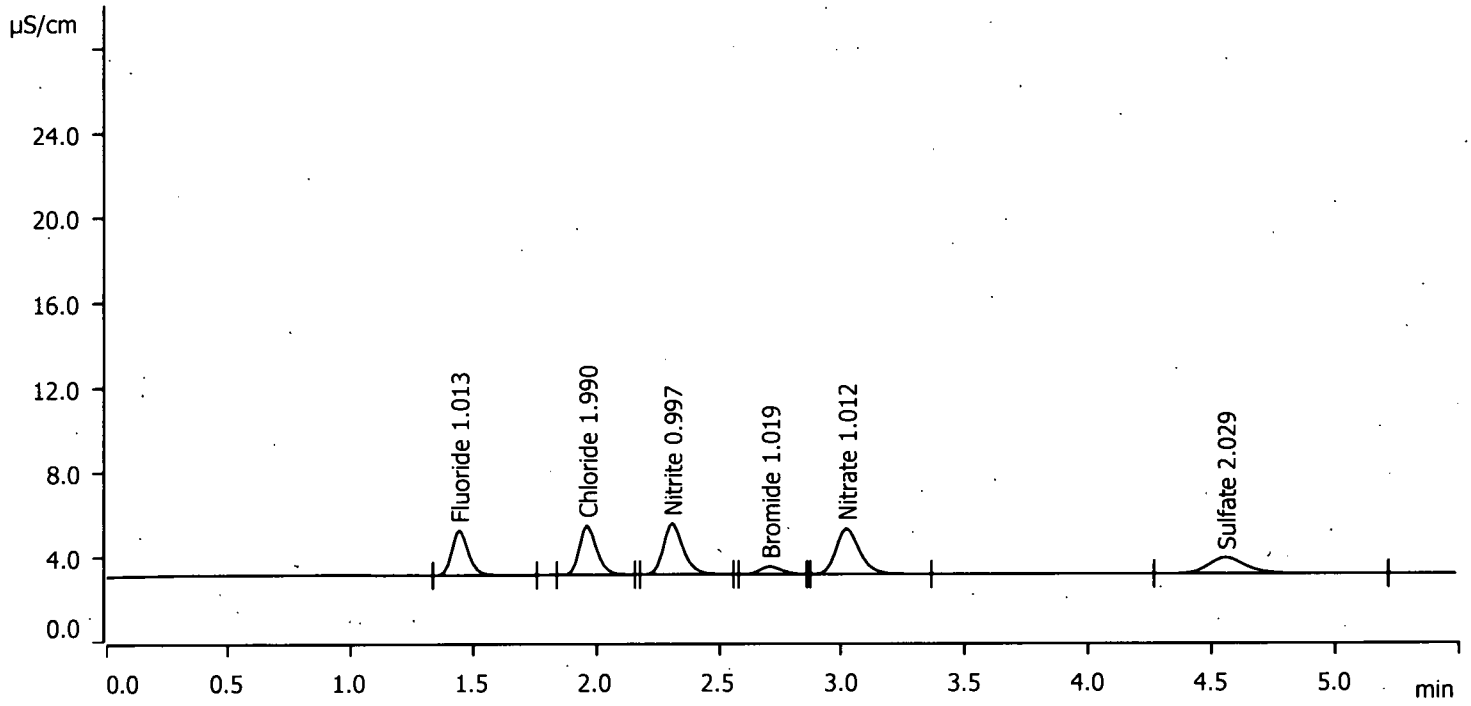
Anions



Sample data

Ident	LCS
Sample type	Check standard 2
Determination start	2024-02-26 13:59:15 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77008
Sample Position	3
Comment 1	300.0/9056A
Comment 2	

Anions



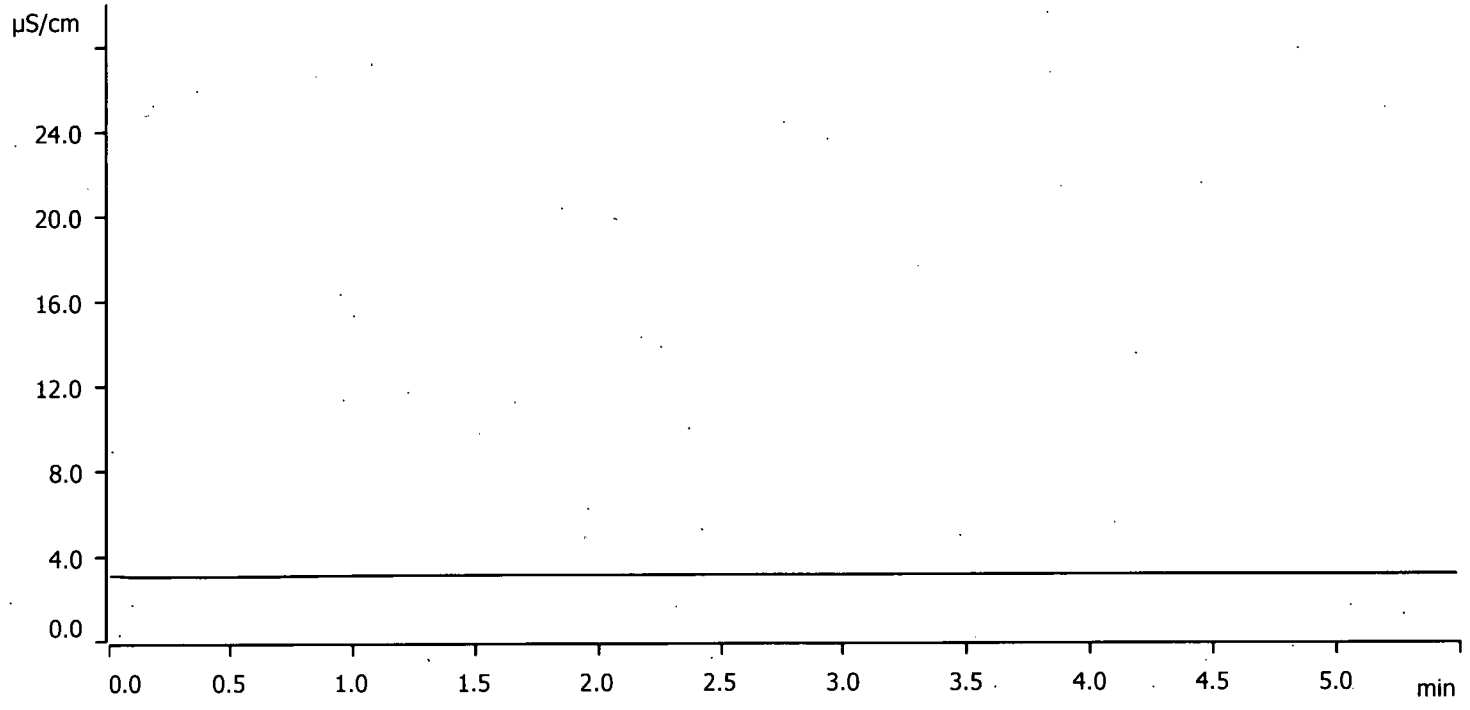
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.165	1.013	Fluoride	BB
2	1.97	0.189	1.990	Chloride	BB
3	2.31	0.226	0.997	Nitrite	BB
4	2.71	0.037	1.019	Bromide	BB
5	3.02	0.236	1.012	Nitrate	BB
6	4.55	0.136	2.029	Sulfate	BB

Sample data

Ident	R2401267-001 DNR
Sample type	Sample
Determination start	2024-02-26 14:40:12 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77009
Sample Position	7
Comment 1	300.0 CS
Comment 2	

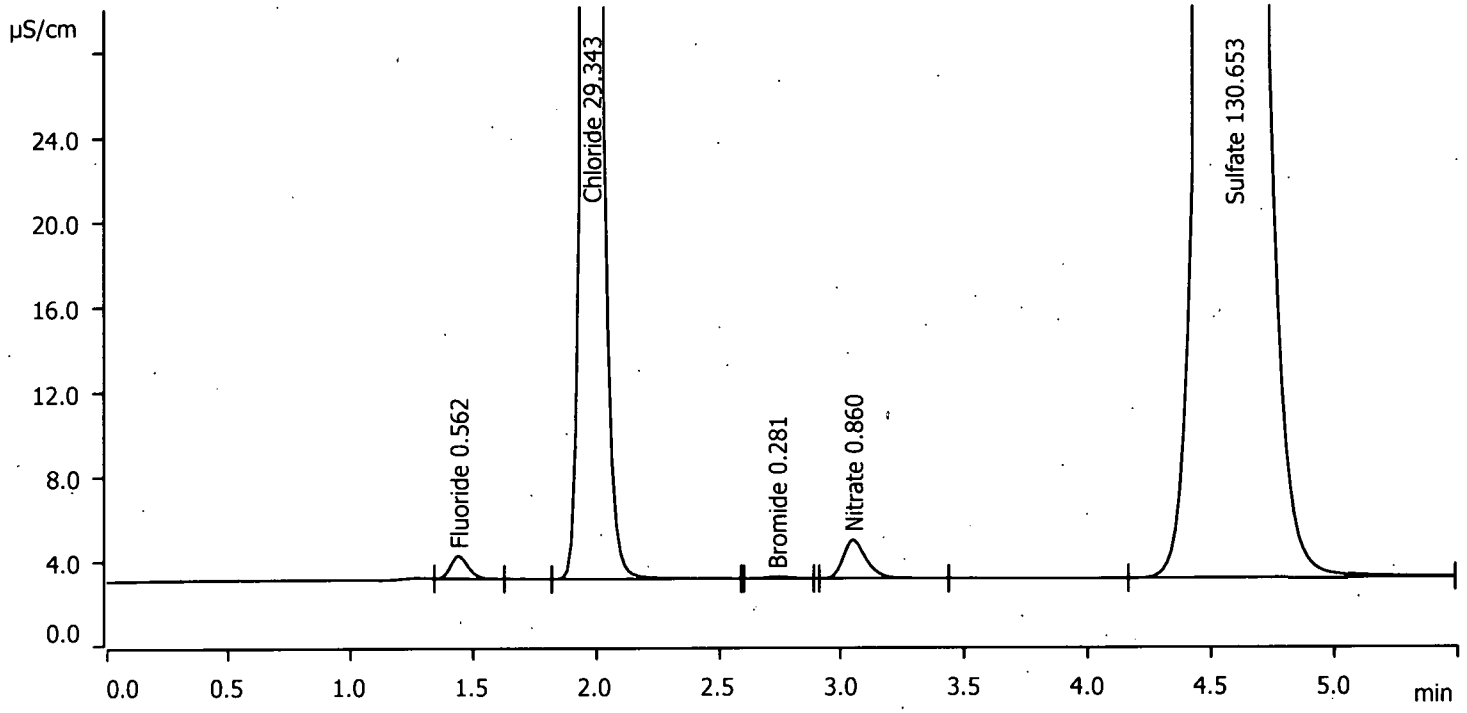
Anions



Sample data

Ident	R2401306-003
Sample type	Sample
Determination start	2024-02-26 14:47:04 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77010
Sample Position	5
Comment 1	300.0 F
Comment 2	

Anions



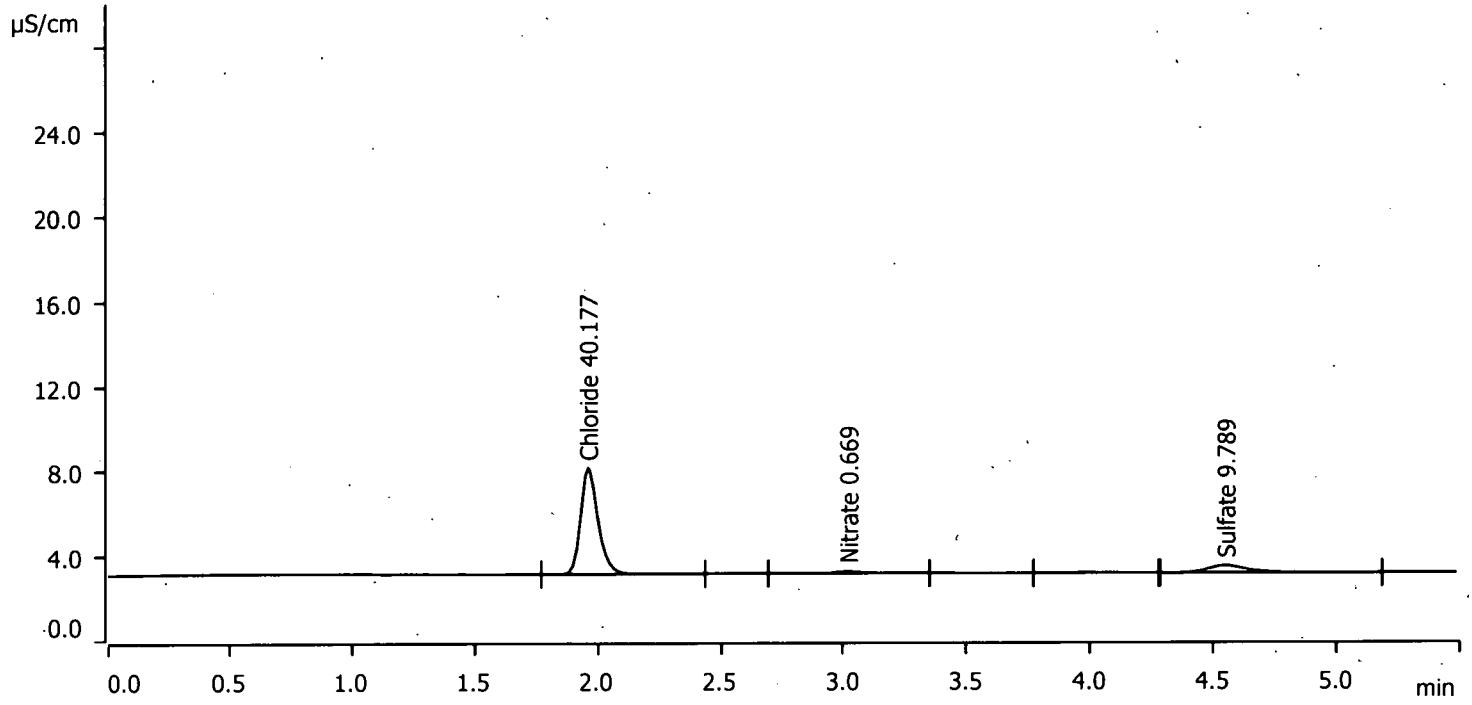
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.088	0.562	Fluoride	BB
2	1.98	5.366	29.343	Chloride	BB
3	2.74	0.010	0.281	Bromide	BB
4	3.05	0.198	0.860	Nitrate	BB
5	4.59	32.417	130.653	Sulfate	BB

Sample data

Ident	R2401267-001
Sample type	Sample
Determination start	2024-02-26 14:53:59 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77011
Sample Position	4
Comment 1	300.0 CS
Comment 2	

Anions



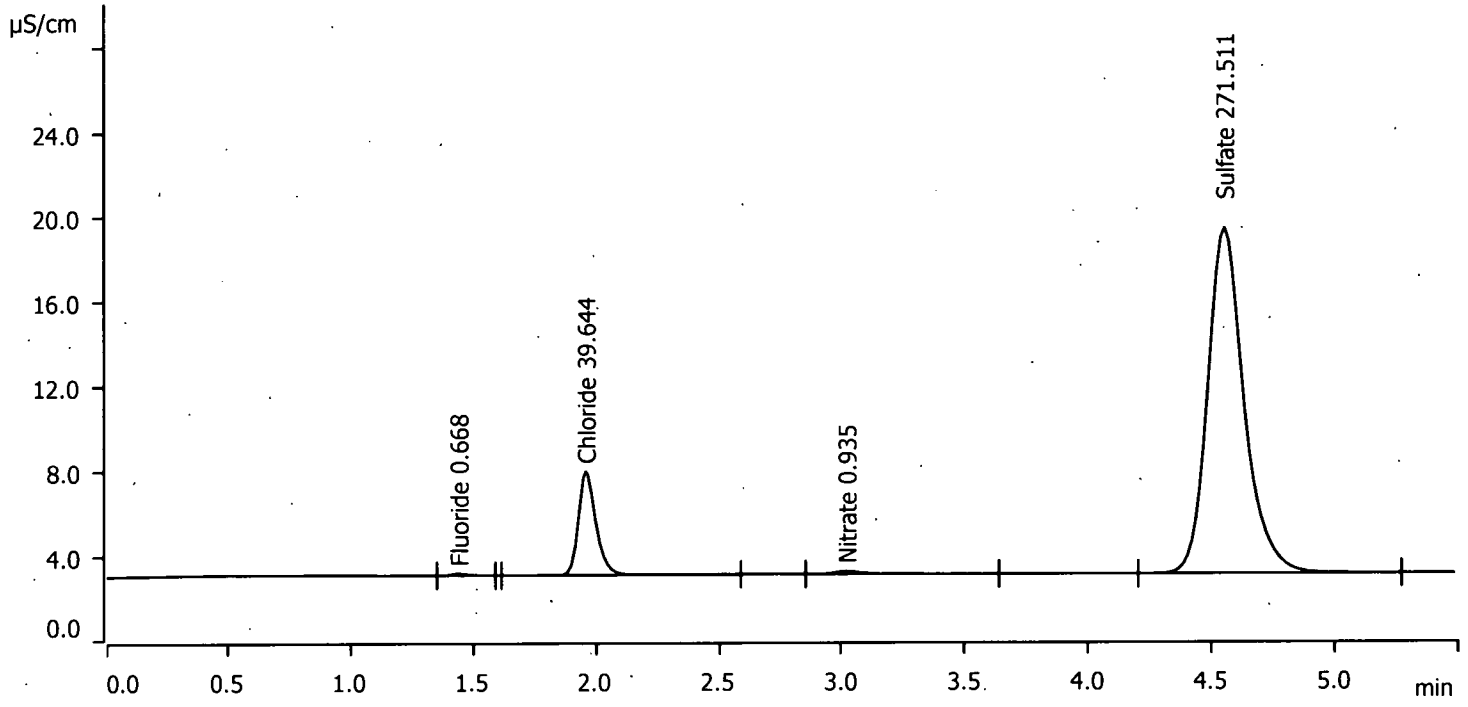
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.410	40.177	Chloride	BB
2	3.02	0.011	0.669	Nitrate	BB
4	4.55	0.064	9.789	Sulfate	BB

Sample data

Ident	R2401306-003 DNR
Sample type	Sample
Determination start	2024-02-26 15:00:52 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77012
Sample Position	6
Comment 1	300.0 C
Comment 2	

Anions



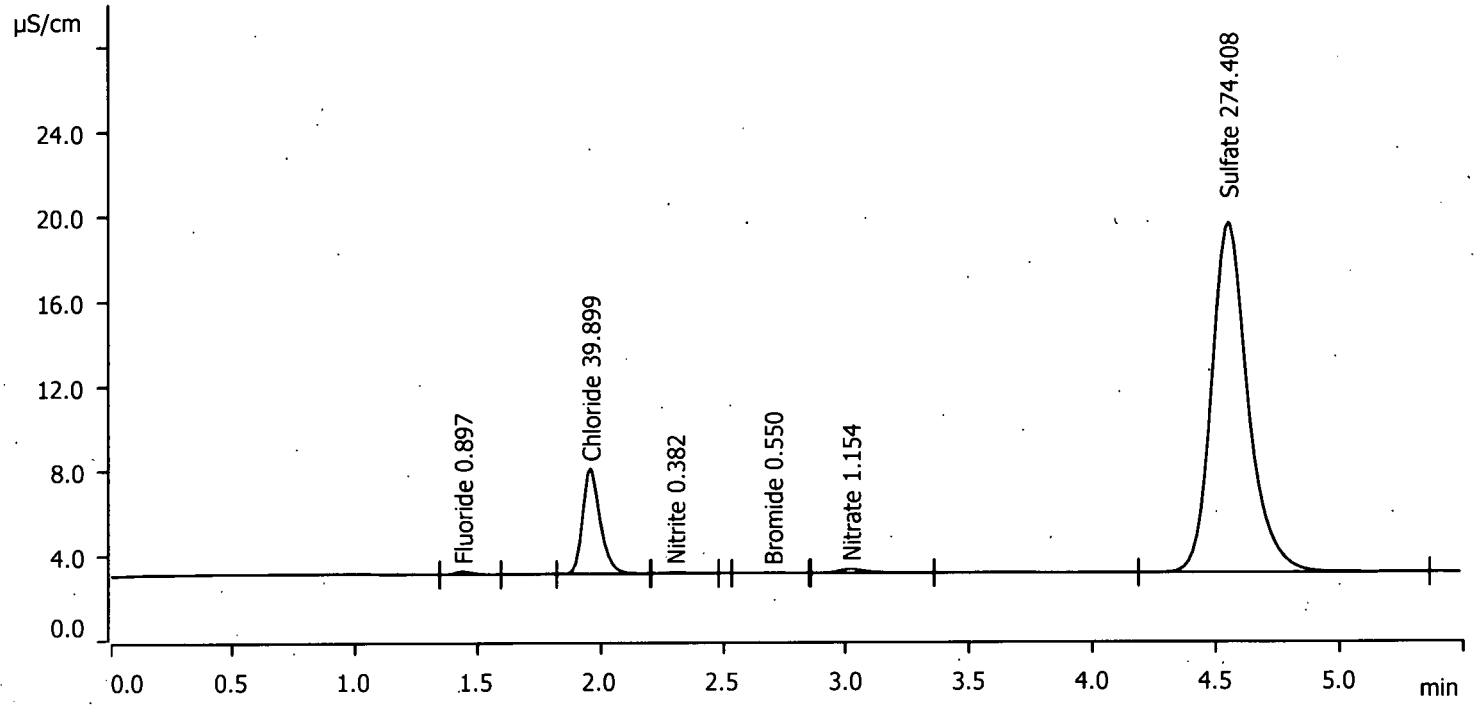
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.008	0.668	Fluoride	BB
2	1.96	0.404	39.644	Chloride	BB
3	3.02	0.017	0.935	Nitrate	BB
4	4.55	2.775	271.511	Sulfate	BB

Sample data

Ident	R2401306-003 MS DNR
Sample type	Sample
Determination start	2024-02-26 15:07:45 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77013
Sample Position	7
Comment 1	300.0 C
Comment 2	

Anions



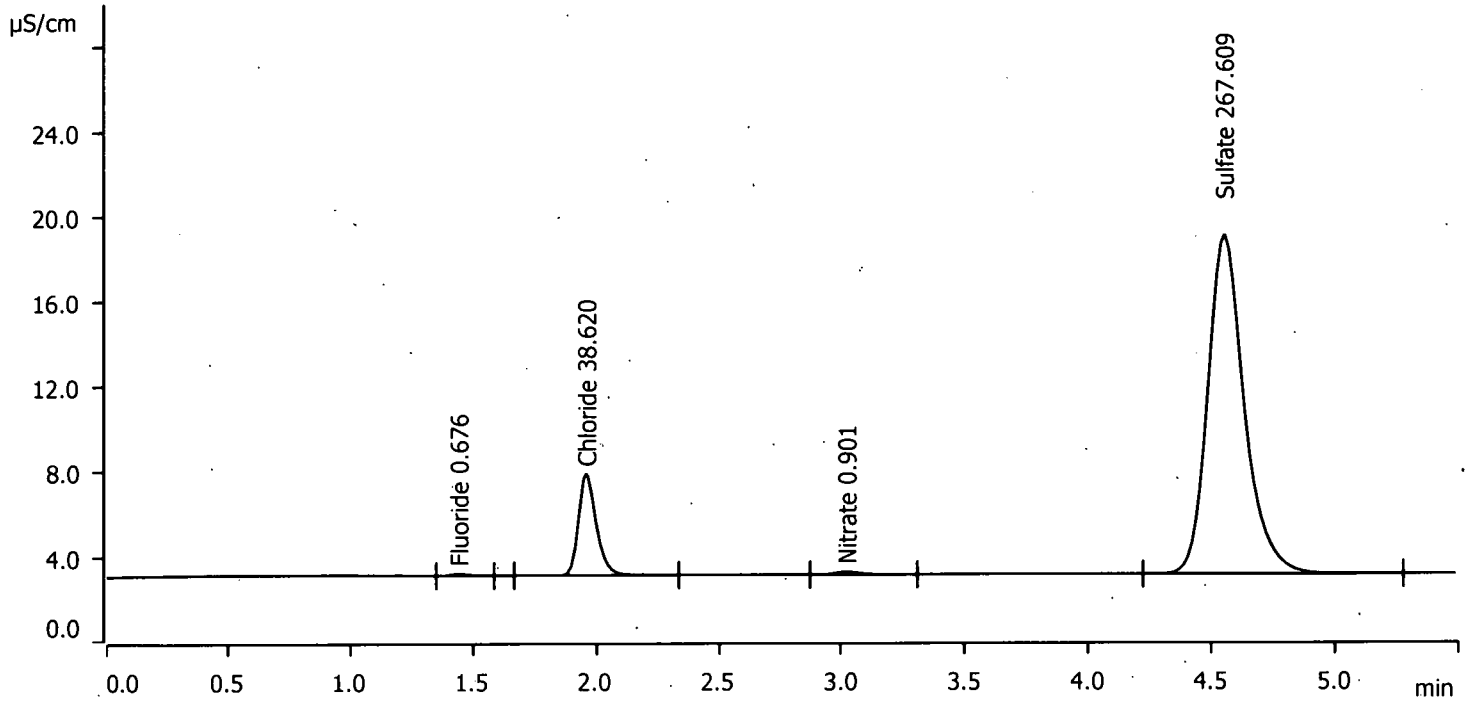
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.011	0.897	Fluoride	BB
2	1.96	0.406	39.899	Chloride	BB
3	2.31	0.004	0.382	Nitrite	BB
4	2.70	0.002	0.550	Bromide	BB
5	3.02	0.022	1.154	Nitrate	BB
6	4.55	2.815	274.408	Sulfate	BB

Sample data

Ident	R2401306-003 MSD DNR
Sample type	Sample
Determination start	2024-02-26 15:14:38 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77014
Sample Position	8
Comment 1	300.0 C
Comment 2	

Anions



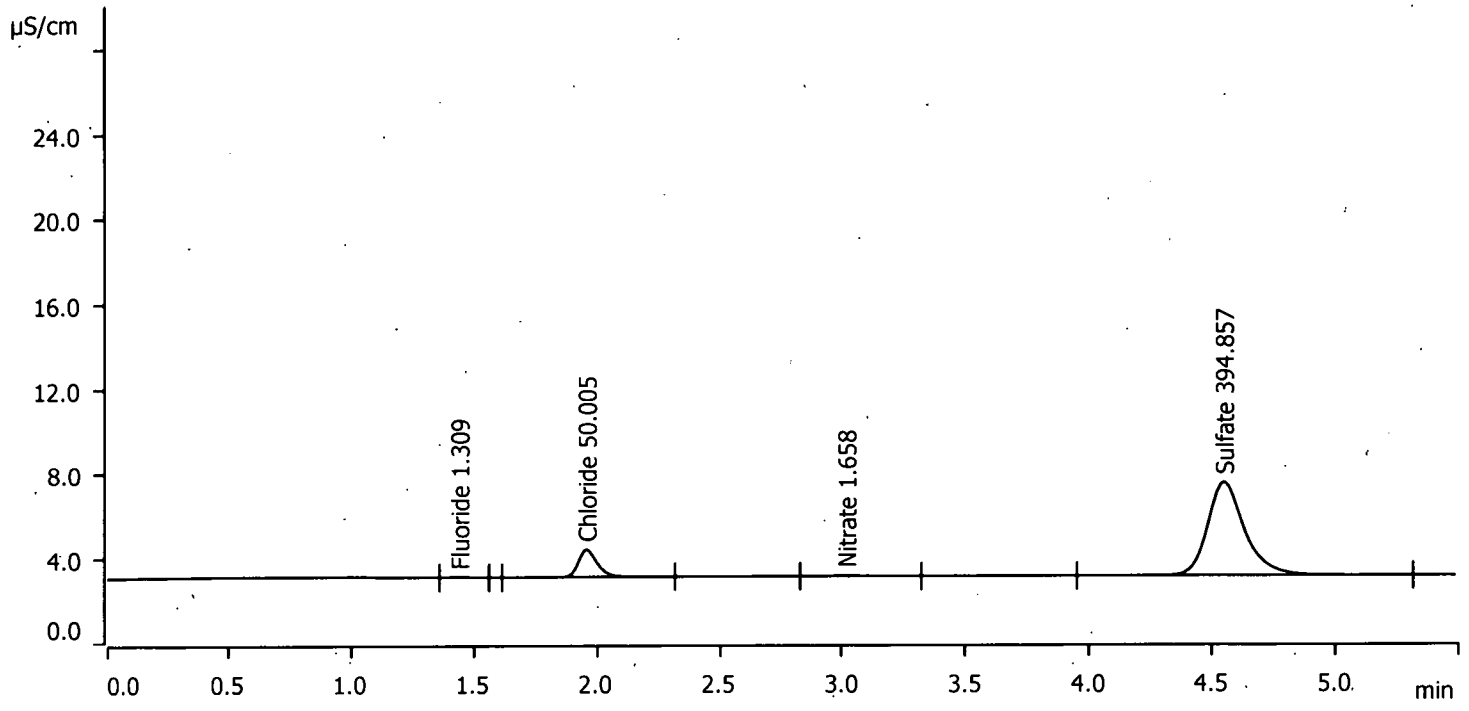
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.008	0.676	Fluoride	BB
2	1.96	0.392	38.620	Chloride	BB
3	3.02	0.017	0.901	Nitrate	BB
4	4.55	2.720	267.609	Sulfate	BB

Sample data

Ident	R2401306-003
Sample type	Sample
Determination start	2024-02-26 15:21:32 UTC-5
Method	10-122723FAST
Dilution	40
Counter	77015
Sample Position	9
Comment 1	300.0 S
Comment 2	

Anions



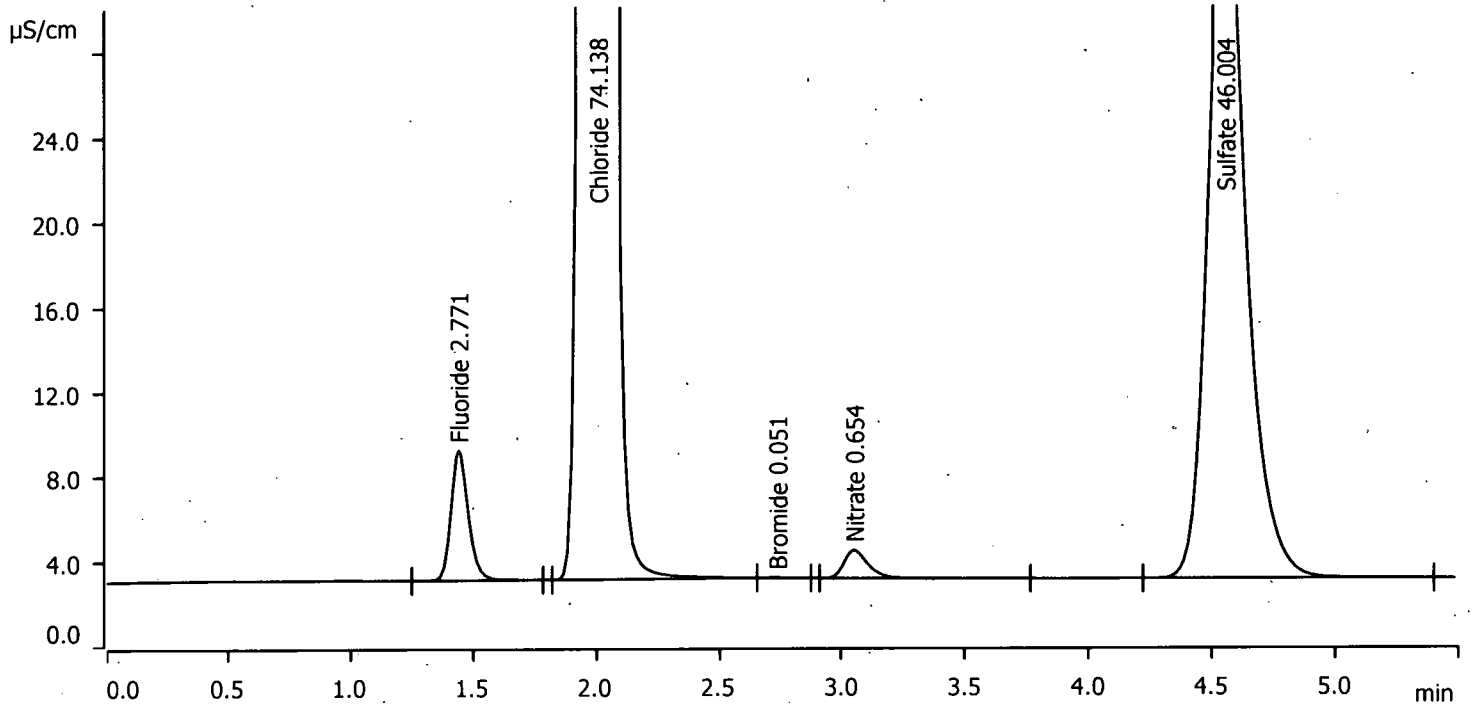
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.002	1.309	Fluoride	BB
2	1.96	0.115	50.005	Chloride	BB
3	3.01	0.006	1.658	Nitrate	BB
4	4.55	0.769	394.857	Sulfate	BB

Sample data

Ident	R2401365-002
Sample type	Sample
Determination start	2024-02-26 15:28:24 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77016
Sample Position	10
Comment 1	300.0 F
Comment 2	

Anions



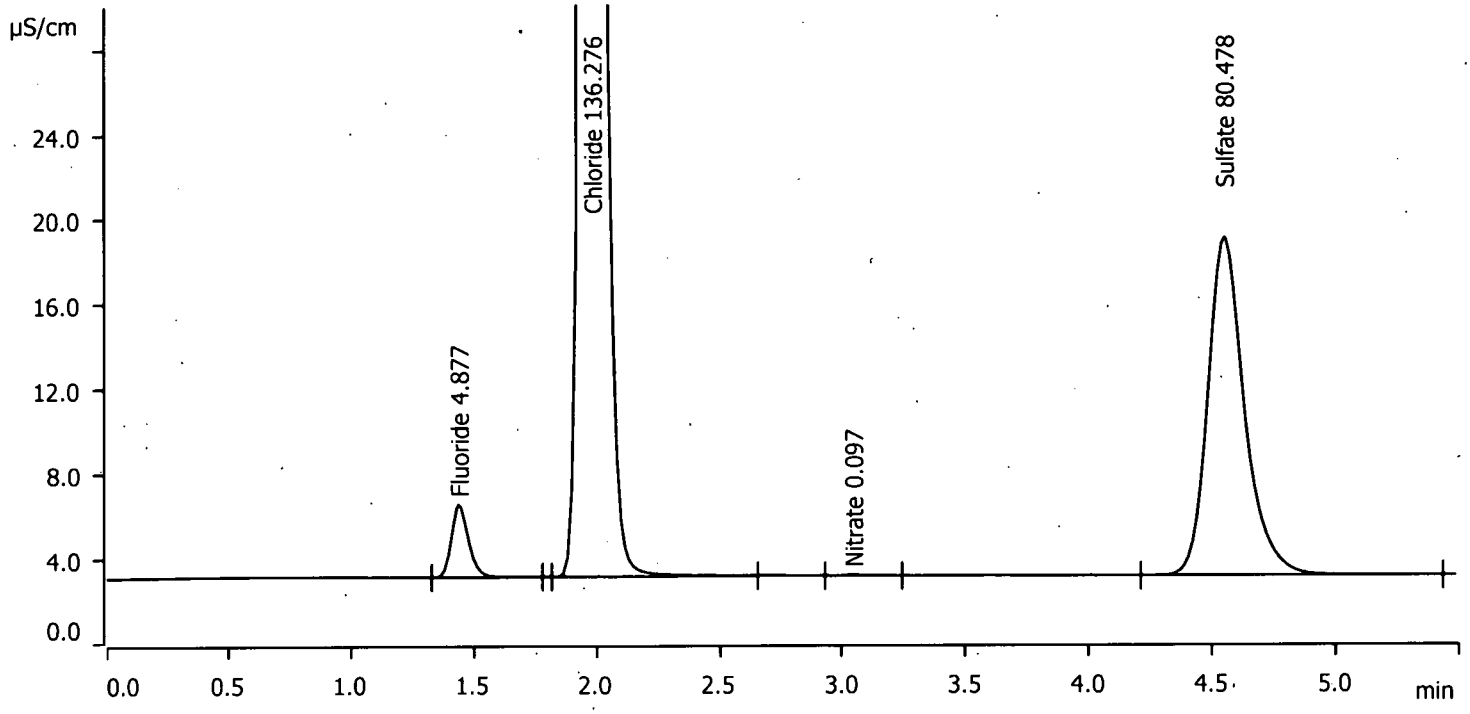
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.496	2.771	Fluoride	BB
2	2.01	24.097	74.138	Chloride	BB
3	2.73	0.002	0.051	Bromide	BB
4	3.05	0.148	0.654	Nitrate	BB
5	4.55	5.924	46.004	Sulfate	BB

Sample data

Ident	R2401365-003
Sample type	Sample
Determination start	2024-02-26 15:35:17 UTC-5
Method	10-122723FAST
Dilution	3
Counter	77017
Sample Position	11
Comment 1	300.0 F
Comment 2	

Anions



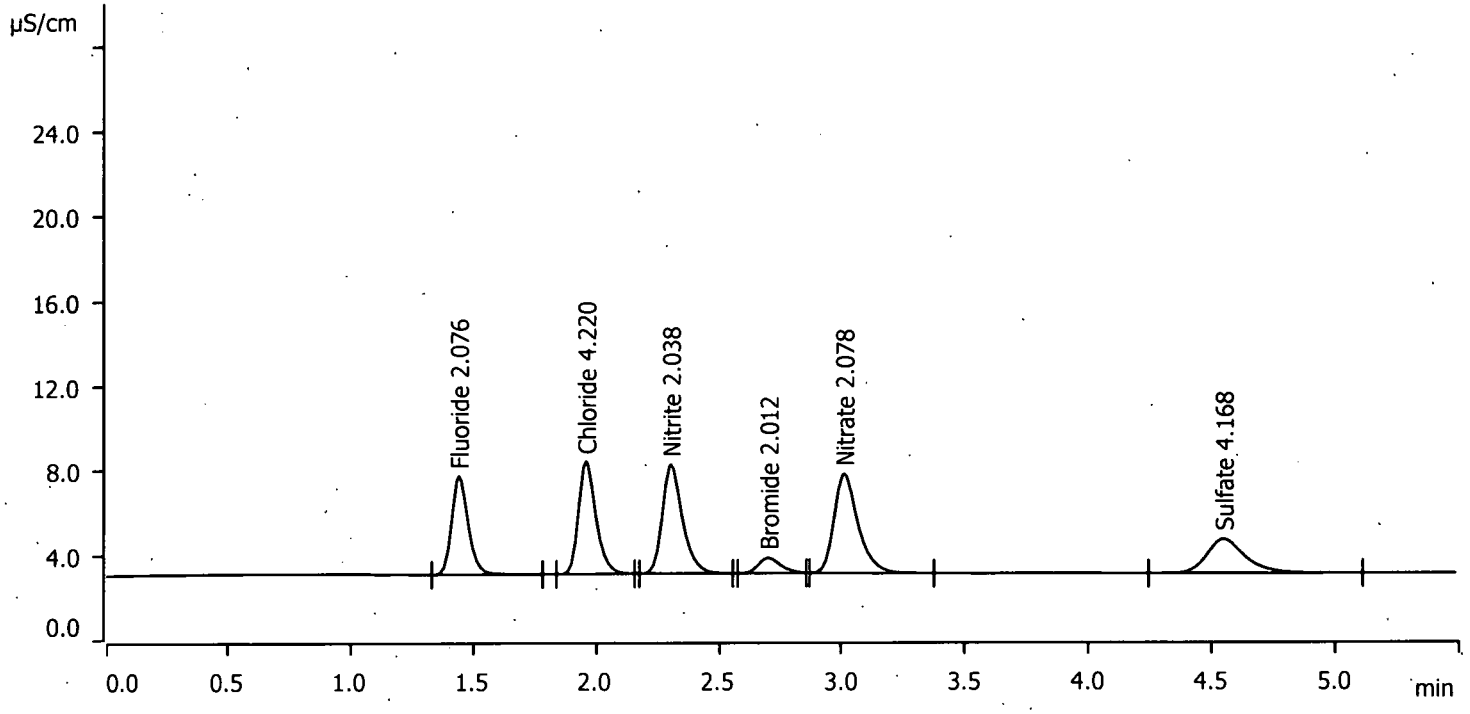
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.275	4.877	Fluoride	BB
2	1.99	10.626	136.276	Chloride	BB
3	3.04	0.004	0.097	Nitrate	BB
4	4.55	2.729	80.478	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-02-26 15:42:09 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77018
Sample Position	12
Comment 1	300.0/9056A
Comment 2	

Anions



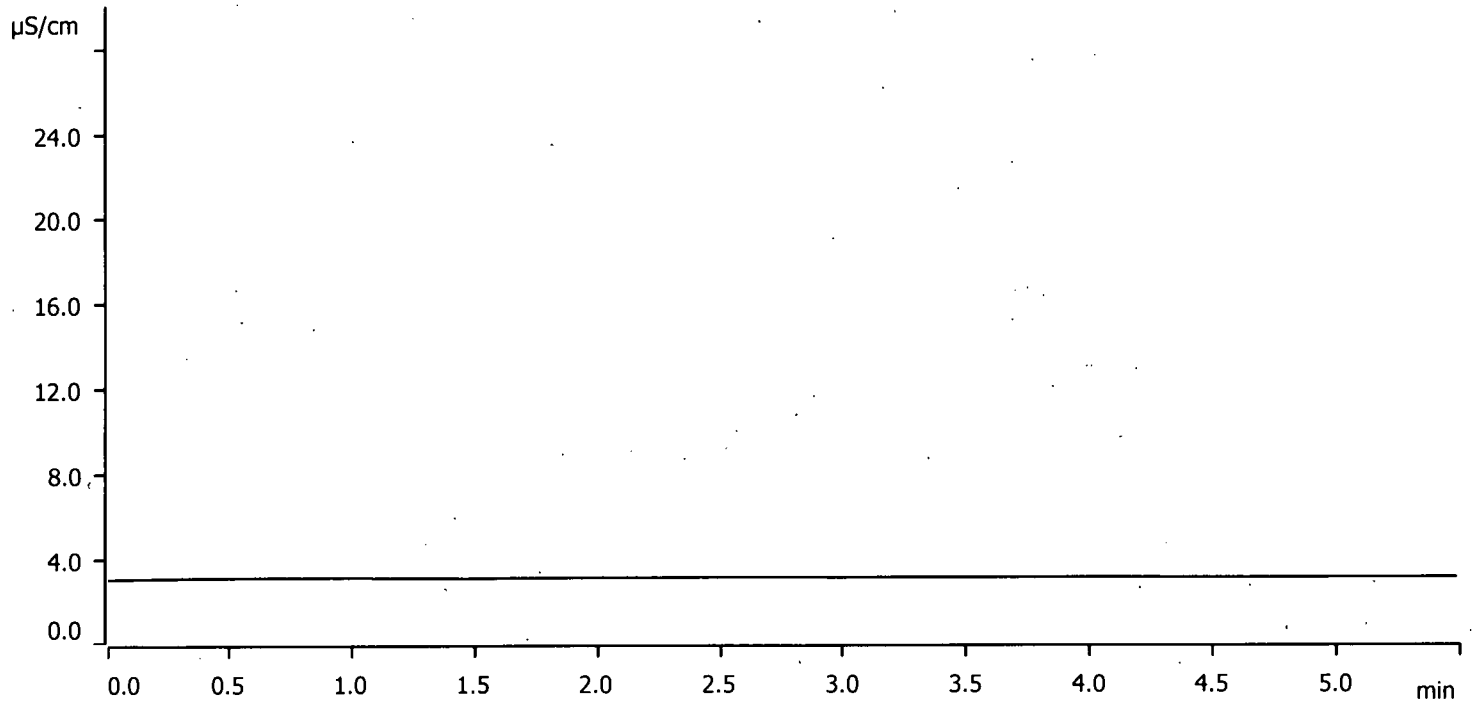
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.359	2.076	Fluoride	BB
2	1.96	0.433	4.220	Chloride	BB
3	2.31	0.491	2.038	Nitrite	BB
4	2.70	0.075	2.012	Bromide	BB
5	3.01	0.524	2.078	Nitrate	BB
6	4.55	0.291	4.168	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-02-26 15:49:06 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77019
Sample Position	13
Comment 1	300.0/9056A
Comment 2	

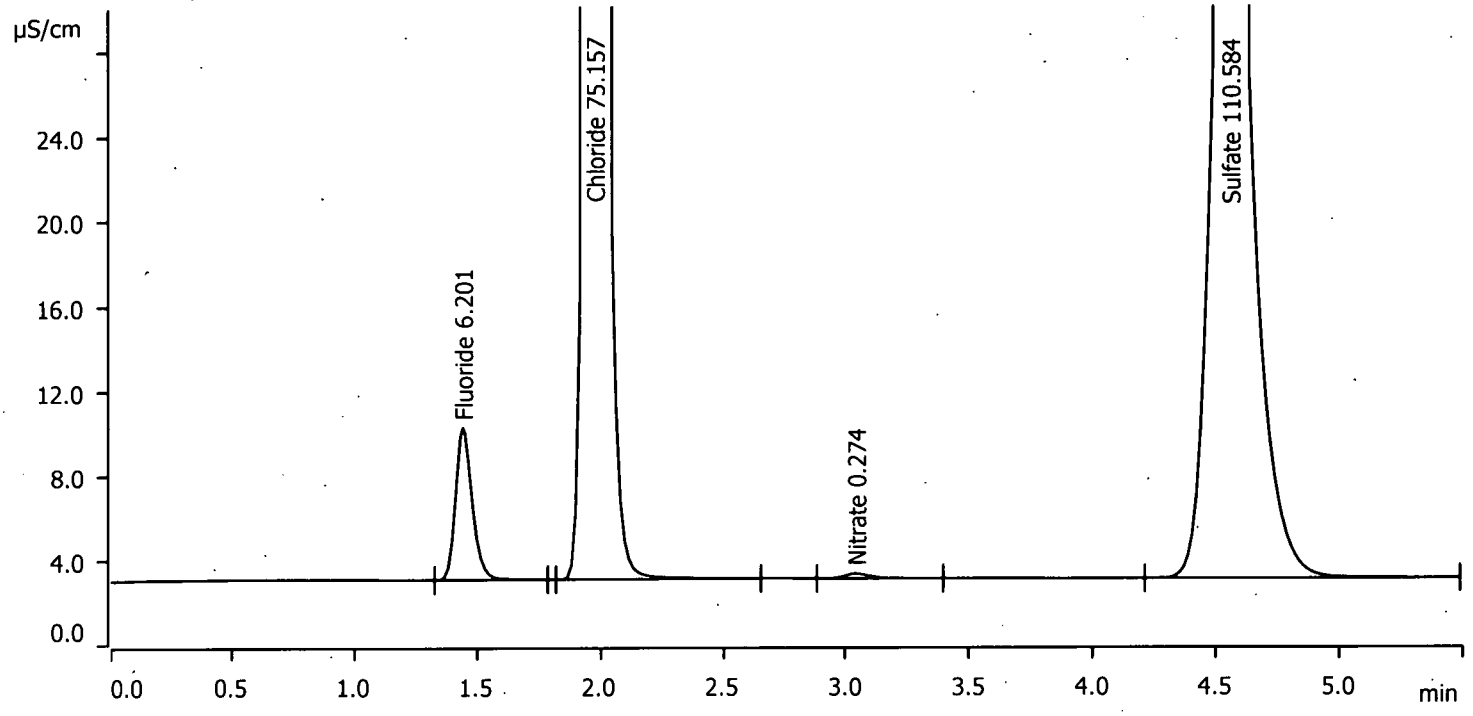
Anions



Sample data

Ident	R2401366-001
Sample type	Sample
Determination start	2024-02-26 15:55:57 UTC-5
Method	10-122723FAST
Dilution	2
Counter	77020
Sample Position	14
Comment 1	300.0 F
Comment 2	

Anions



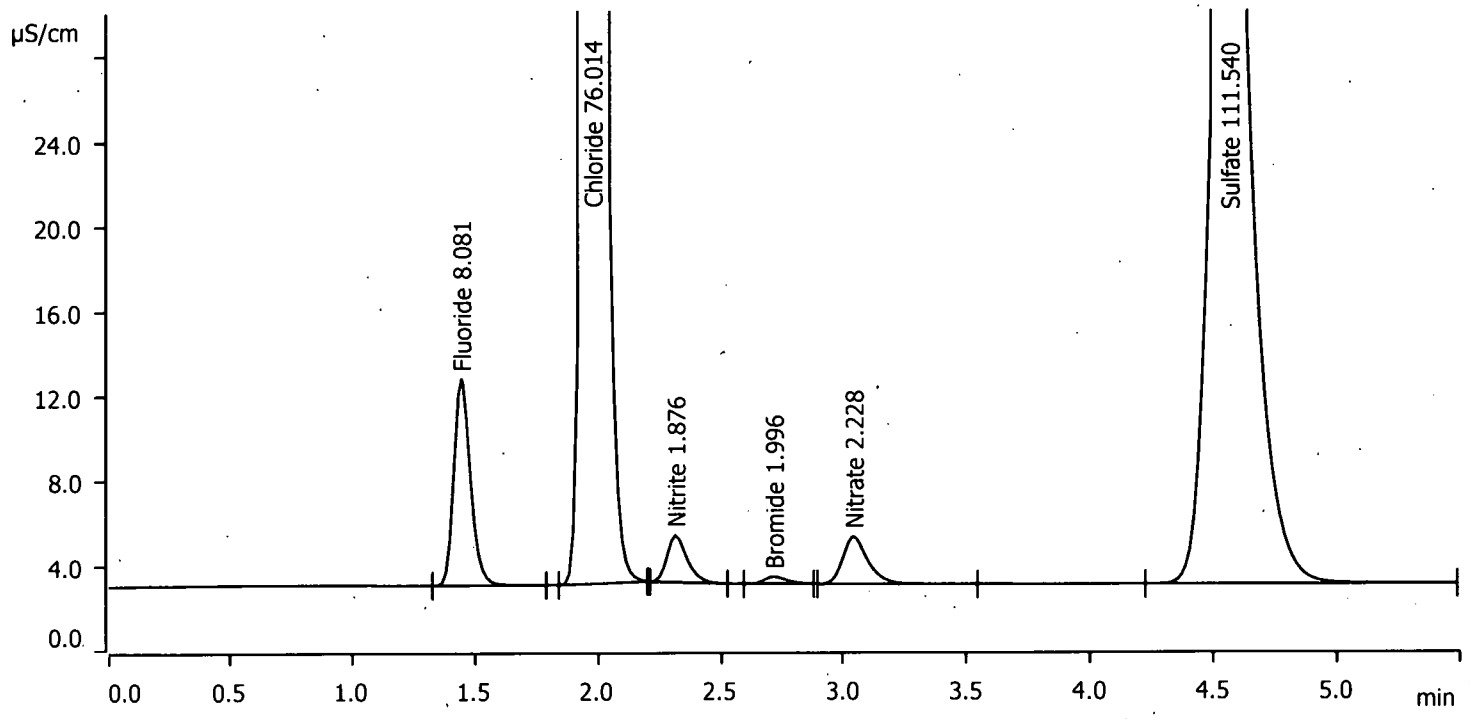
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.564	6.201	Fluoride	BB
2	1.98	7.855	75.157	Chloride	BB
3	3.04	0.027	0.274	Nitrate	BB
4	4.56	7.844	110.584	Sulfate	BB

Sample data

Ident	R2401366-001 MS!
Sample type	Sample
Determination start	2024-02-26 16:02:50 UTC-5
Method	10-122723FAST
Dilution	2
Counter	77021
Sample Position	15
Comment 1	300.0 F
Comment 2	

Anions



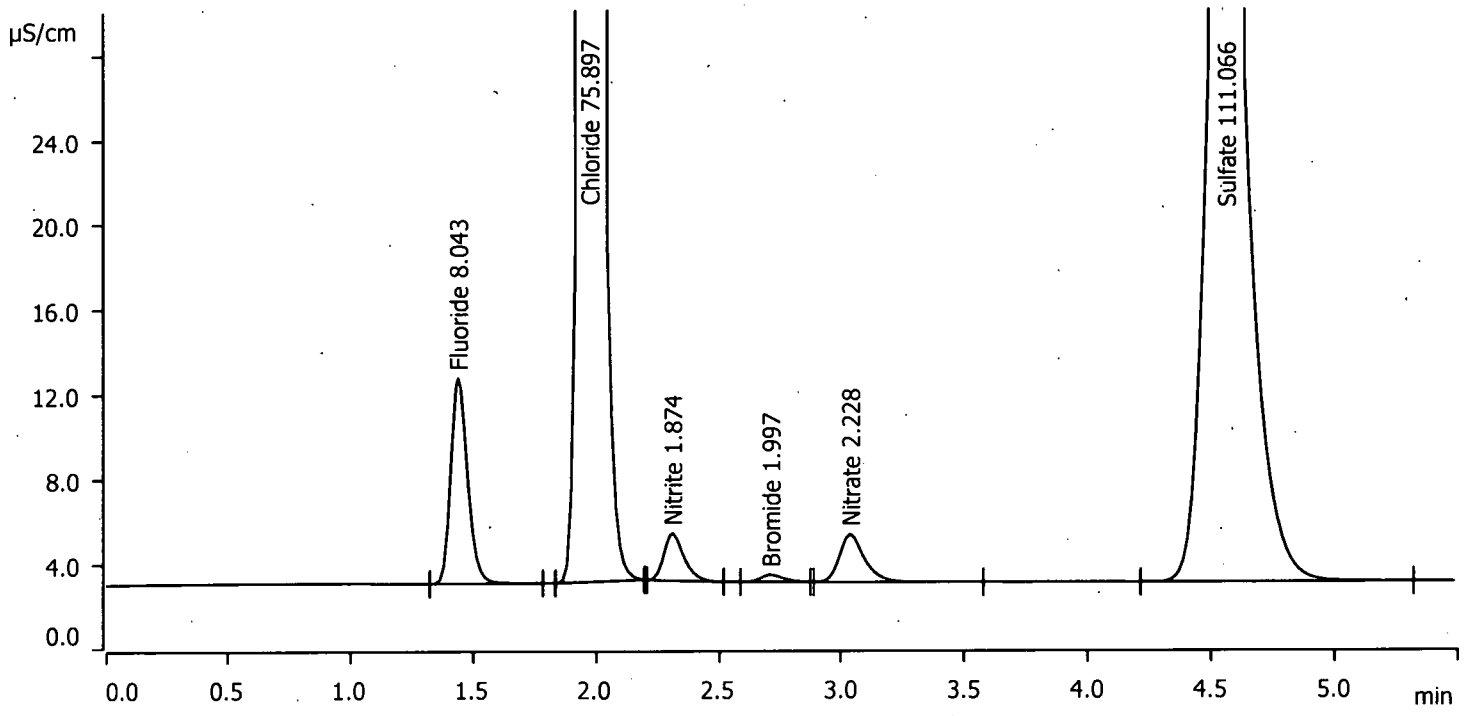
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.766	8.081	Fluoride	BB
2	1.98	7.996	76.014	Chloride	BB
3	2.32	0.212	1.876	Nitrite	BB
4	2.72	0.036	1.996	Bromide	BB
5	3.04	0.262	2.228	Nitrate	BB
6	4.56	7.949	111.540	Sulfate	BB

Sample data

Ident	R2401366-001 MSD!
Sample type	Sample
Determination start	2024-02-26 16:09:43 UTC-5
Method	10-122723FAST
Dilution	2
Counter	77022
Sample Position	16
Comment 1	300.0 F
Comment 2	

Anions



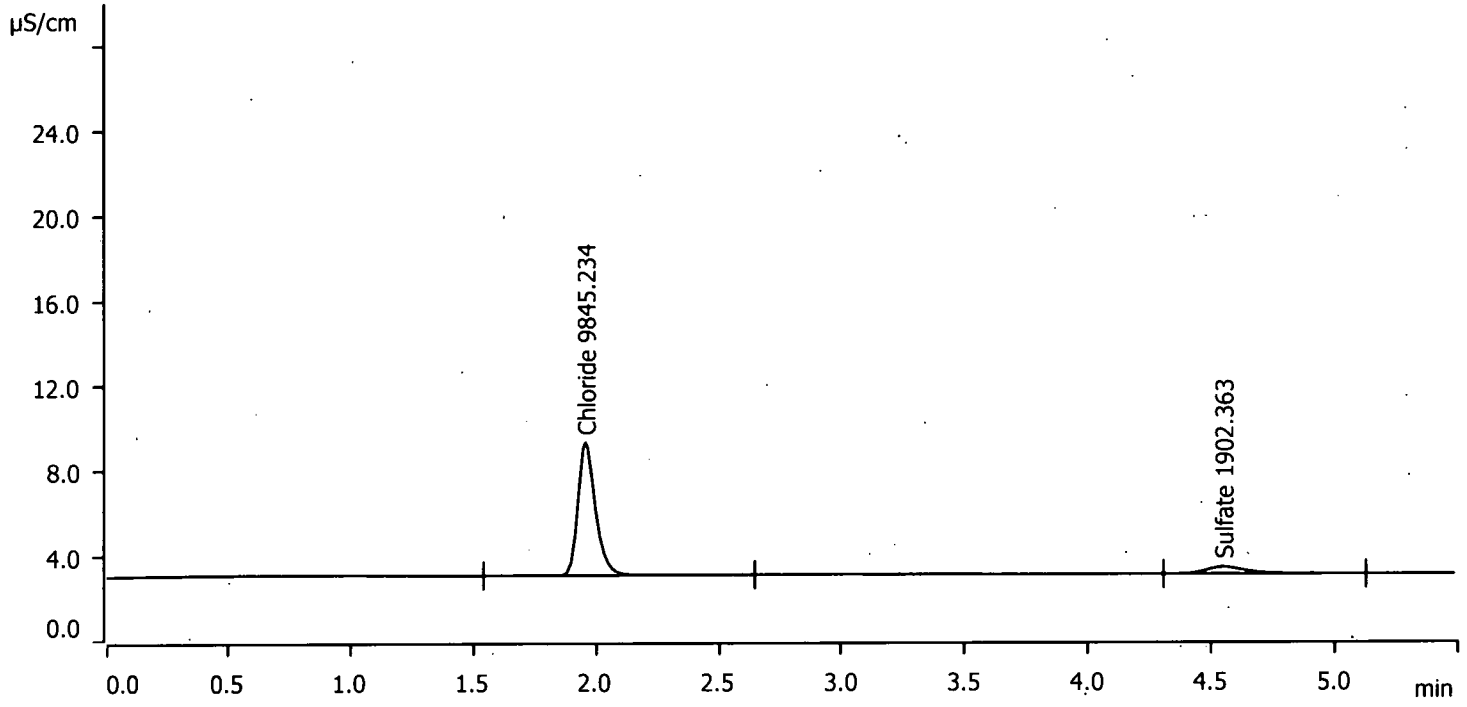
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.762	8.043	Fluoride	BB
2	1.98	7.977	75.897	Chloride	BB
3	2.31	0.212	1.874	Nitrite	BB
4	2.71	0.036	1.997	Bromide	BB
5	3.03	0.262	2.228	Nitrate	BB
6	4.56	7.897	111.066	Sulfate	BB

Sample data

Ident	R2401141-002
Sample type	Sample
Determination start	2024-02-26 16:16:37 UTC-5
Method	10-122723FAST
Dilution	2000
Counter	77023
Sample Position	17
Comment 1	300.0 C
Comment 2	

Anions



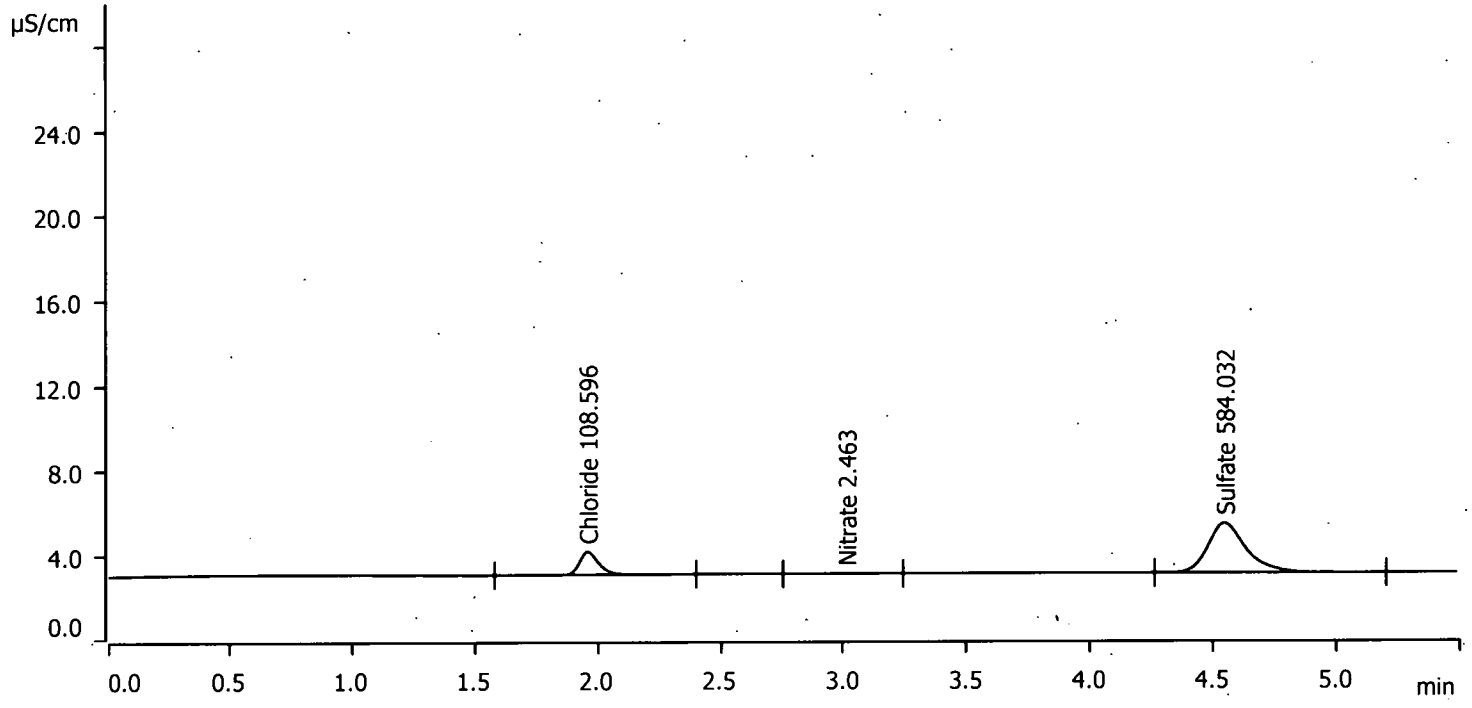
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.517	9845.234	Chloride	BB
2	4.55	0.062	1902.363	Sulfate	BB

Sample data

Ident	R2401141-003 DNR
Sample type	Sample
Determination start	2024-02-26 16:23:28 UTC-5
Method	10-122723FAST
Dilution	100
Counter	77024
Sample Position	18
Comment 1	300.0 C
Comment 2	

Anions



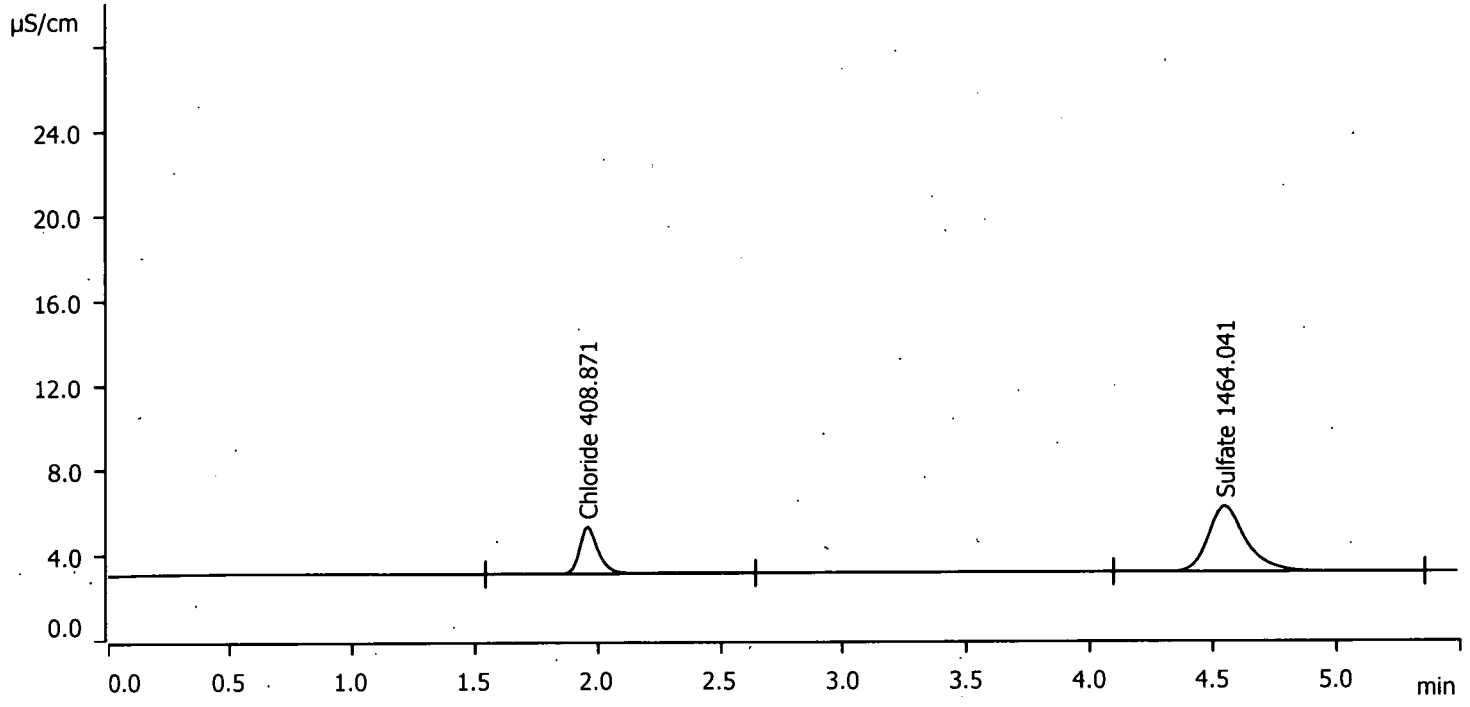
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.099	108.596	Chloride	BB
2	3.01	0.002	2.463	Nitrate	BB
3	4.55	0.422	584.032	Sulfate	BB

Sample data

Ident	R2401141-004
Sample type	Sample
Determination start	2024-02-26 16:30:22 UTC-5
Method	10-122723FAST
Dilution	200
Counter	77025
Sample Position	19
Comment 1	300.0 C
Comment 2	

Anions



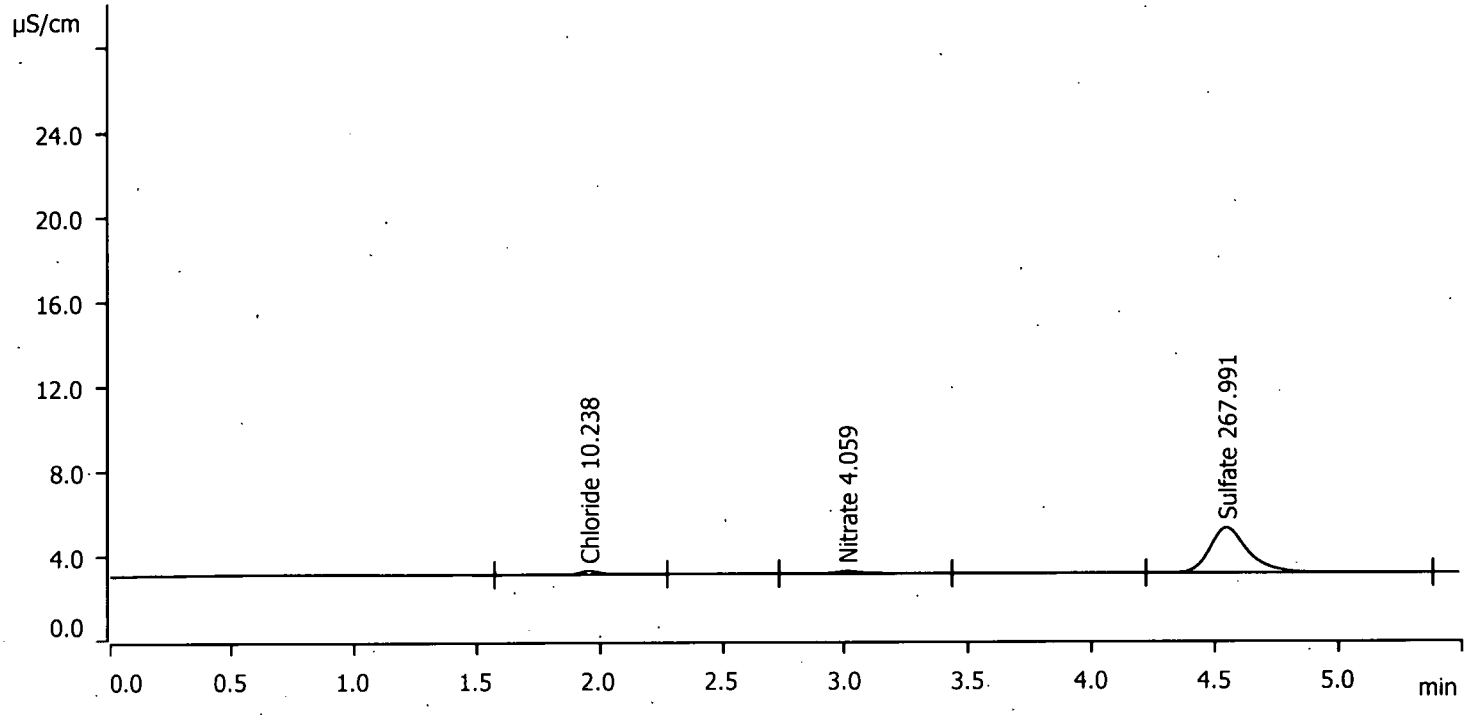
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.194	408.871	Chloride	BB
2	4.54	0.544	1464.041	Sulfate	BB

Sample data

Ident	R2401141-005 DNR
Sample type	Sample
Determination start	2024-02-26 16:37:17 UTC-5
Method	10-122723FAST
Dilution	50
Counter	77026
Sample Position	20
Comment 1	300.0 C
Comment 2	

Anions



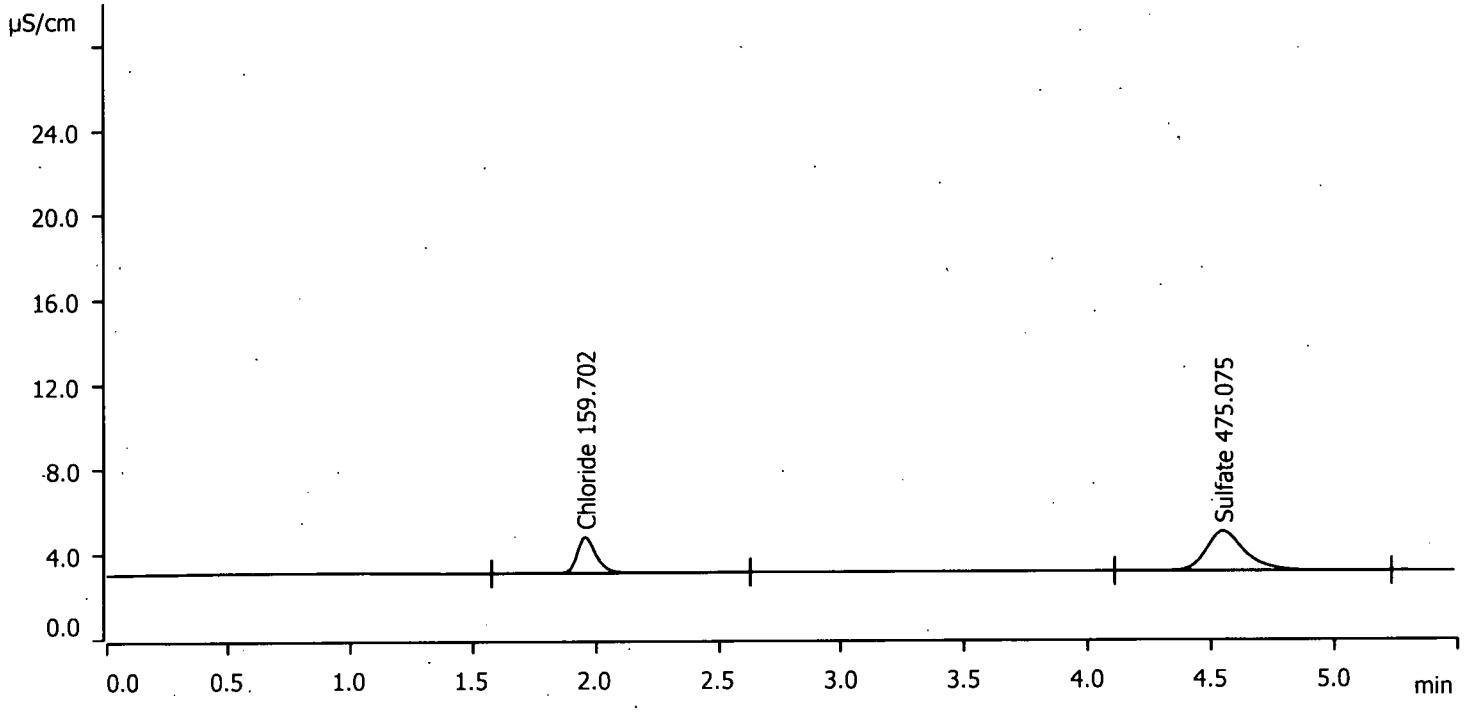
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.016	10.238	Chloride	BB
2	3.01	0.015	4.059	Nitrate	BB
3	4.54	0.383	267.991	Sulfate	BB

Sample data

Ident	R2401141-006 DNR
Sample type	Sample
Determination start	2024-02-26 16:44:11 UTC-5
Method	10-122723FAST
Dilution	100
Counter	77027
Sample Position	21
Comment 1	300.0 C
Comment 2	

Anions



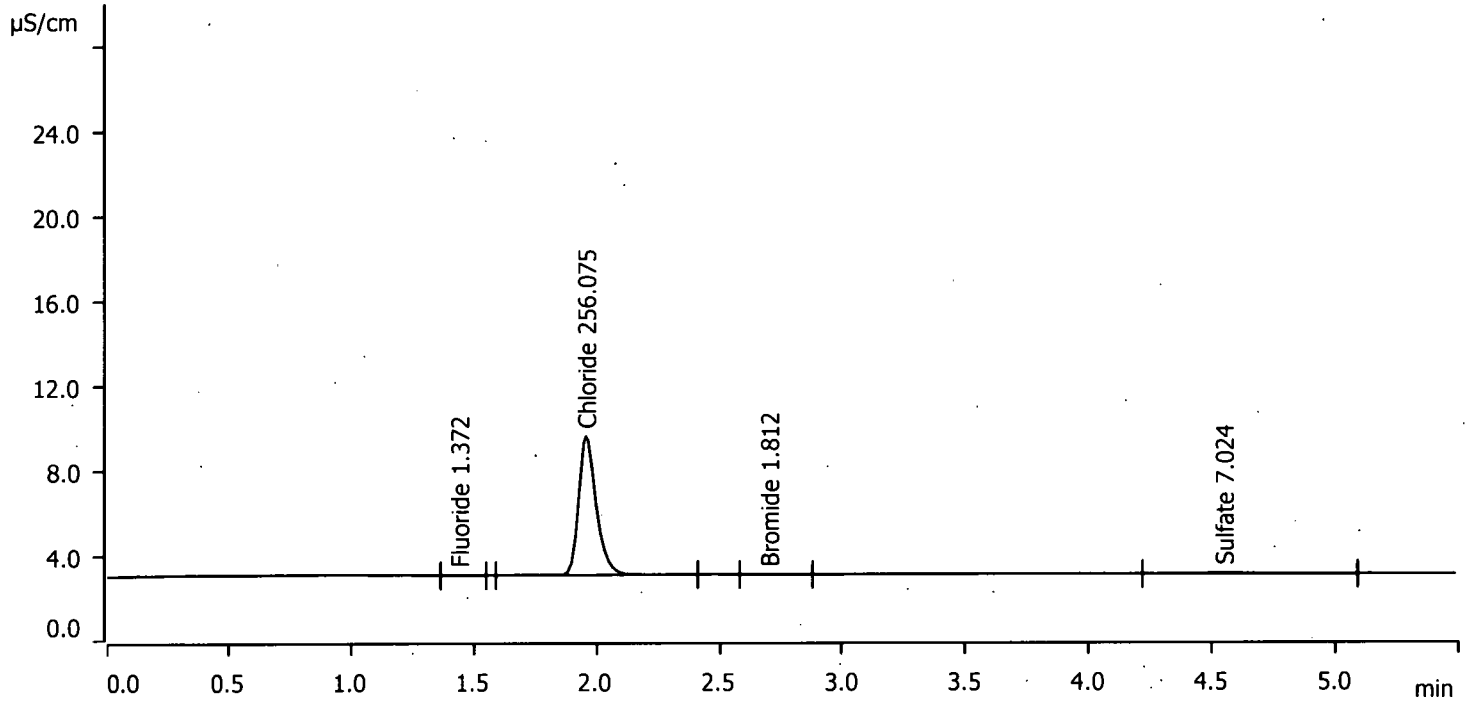
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.149	159.702	Chloride	BB
2	4.55	0.336	475.075	Sulfate	BB

Sample data

Ident	R2401141-007
Sample type	Sample
Determination start	2024-02-26 16:51:02 UTC-5
Method	10-122723FAST
Dilution	50
Counter	77028
Sample Position	22
Comment 1	300.0 C
Comment 2	

Anions



Anions

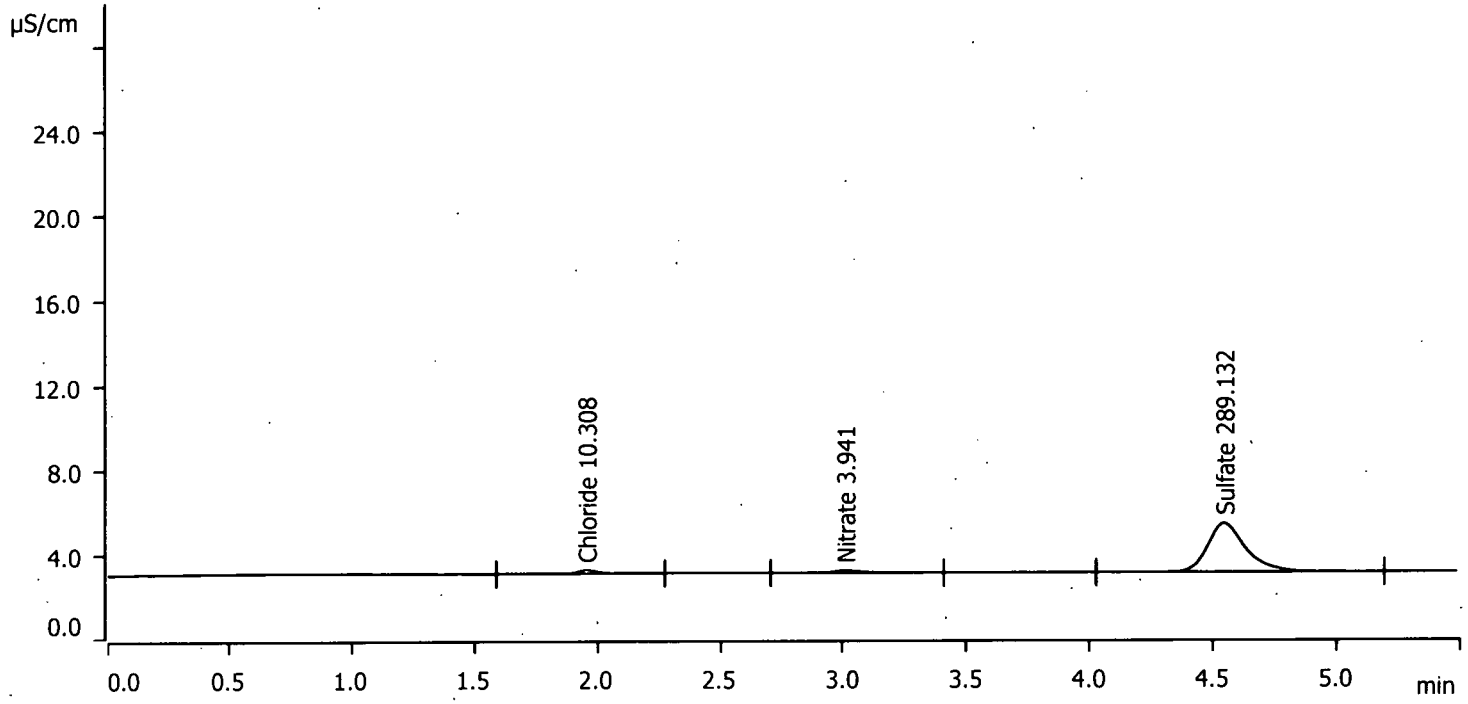
Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.001	1.372	Fluoride	BB
2	1.96	0.541	256.075	Chloride	BB
3	2.70	0.001	1.812	Bromide	BB
4	4.54	0.009	7.024	Sulfate	BB

Sample data

Ident	R2401141-008
Sample type	Sample
Determination start	2024-02-26 16:57:54 UTC-5
Method	10-122723FAST
Dilution	50
Counter	77029
Sample Position	23
Comment 1	300.0 C
Comment 2	

DNR KW 2/27/24

Anions



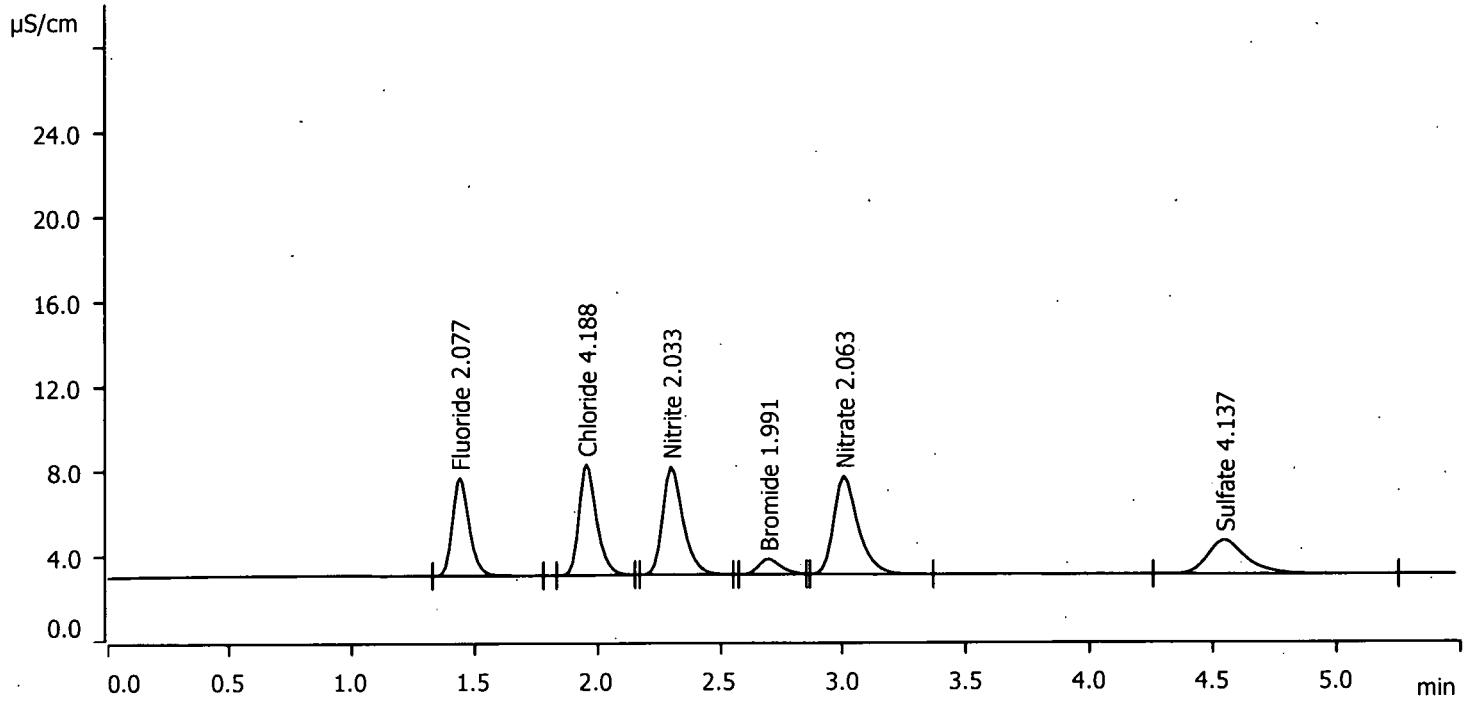
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.016	10.308	Chloride	BB
2	3.01	0.014	3.941	Nitrate	BB
3	4.54	0.417	289.132	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-02-26 17:04:46 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77030
Sample Position	24
Comment 1	300.0/9056A
Comment 2	

Anions



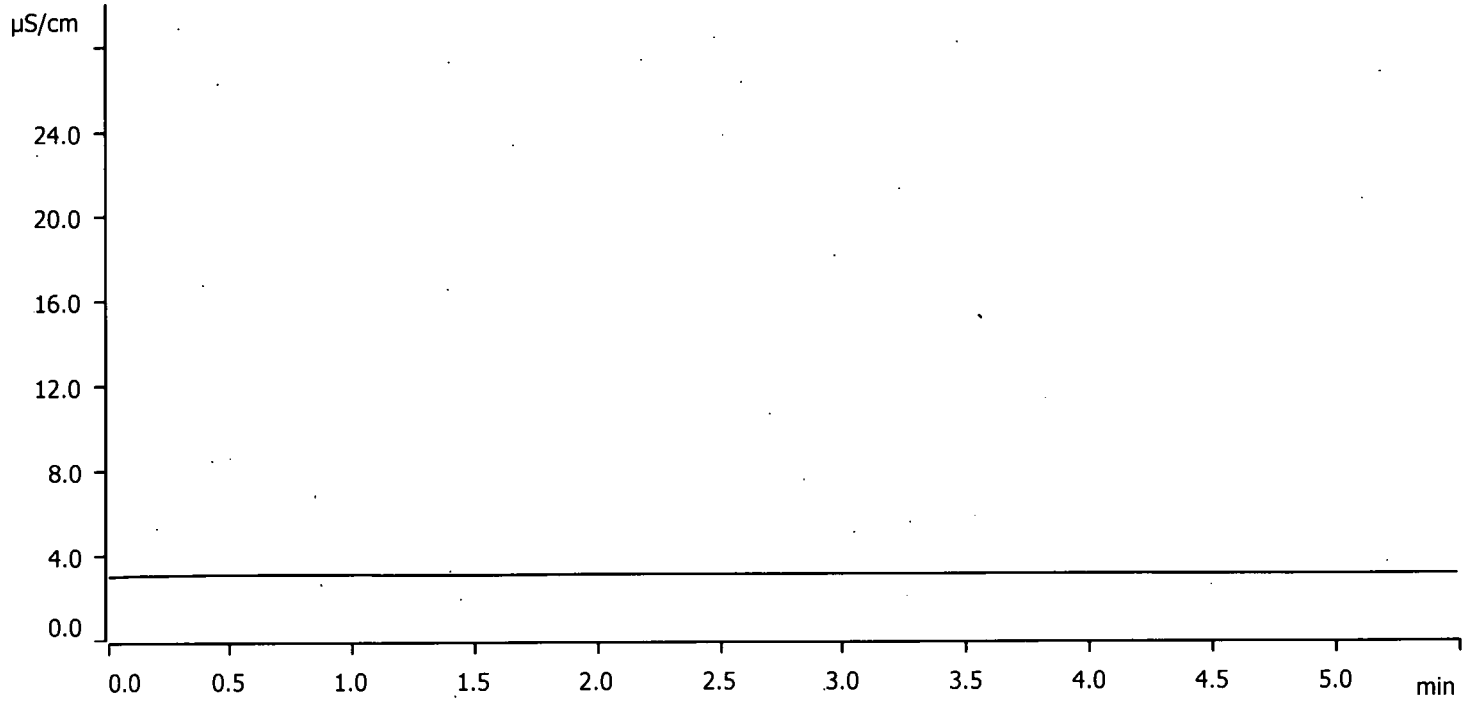
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.359	2.077	Fluoride	BB
2	1.96	0.429	4.188	Chloride	BB
3	2.30	0.490	2.033	Nitrite	BB
4	2.70	0.074	1.991	Bromide	BB
5	3.00	0.519	2.063	Nitrate	BB
6	4.54	0.289	4.137	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-02-26 17:11:43 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77031
Sample Position	25
Comment 1	300.0/9056A
Comment 2	

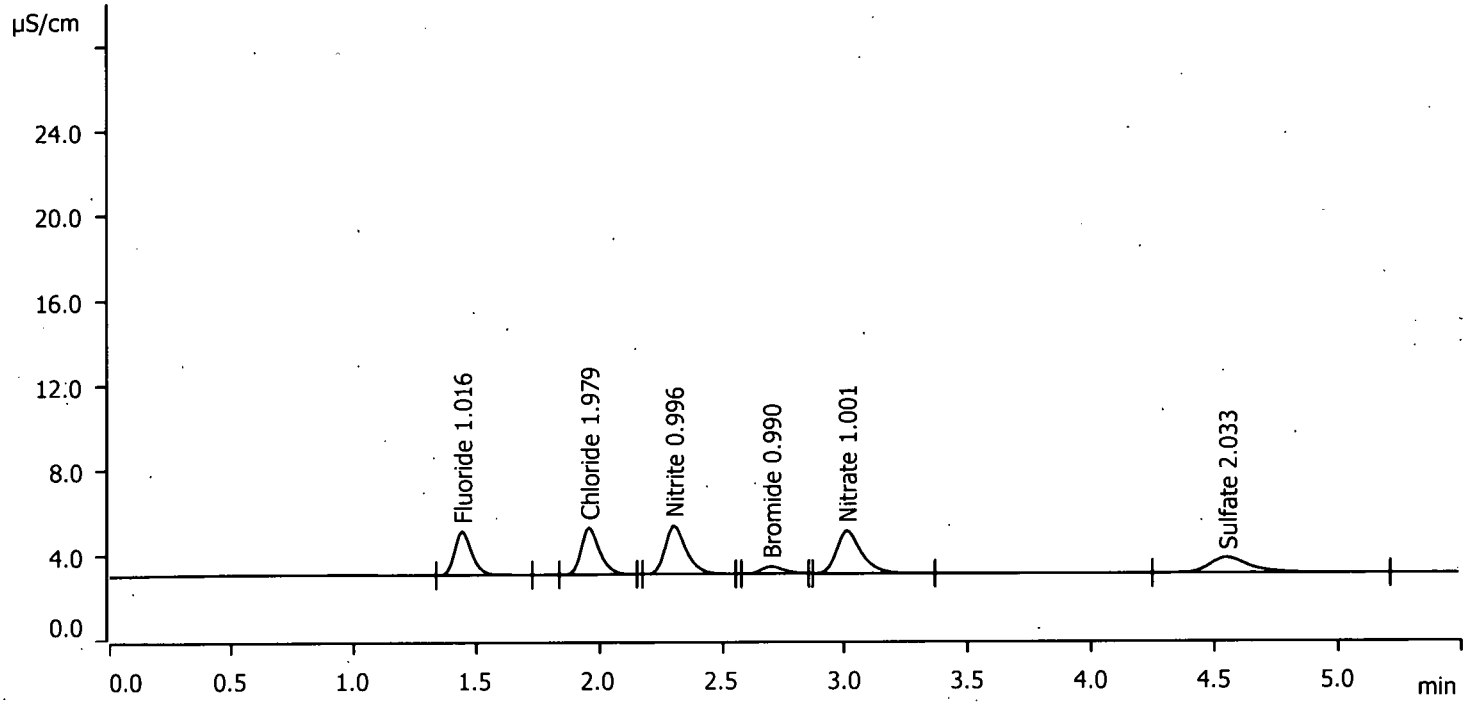
Anions



Sample data

Ident	LCS
Sample type	Check standard 2
Determination start	2024-02-26 17:18:34 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77032
Sample Position	26
Comment 1	300.0/9056A
Comment 2	

Anions



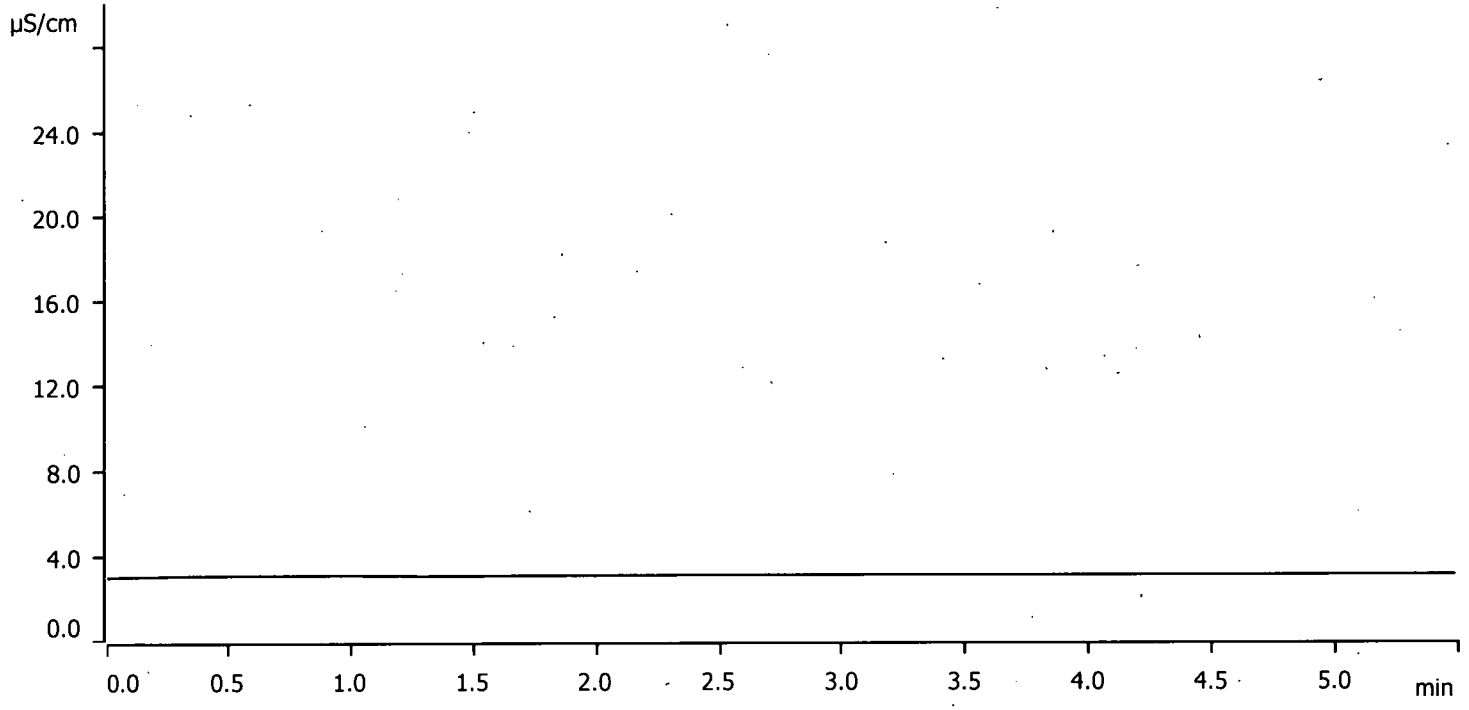
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.165	1.016	Fluoride	BB
2	1.96	0.188	1.979	Chloride	BB
3	2.31	0.226	0.996	Nitrite	BB
4	2.70	0.036	0.990	Bromide	BB
5	3.01	0.233	1.001	Nitrate	BB
6	4.55	0.136	2.033	Sulfate	BB

Sample data

Ident	R2401141-009
Sample type	Sample
Determination start	2024-02-26 17:25:31 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77033
Sample Position	27
Comment 1	300.0 C
Comment 2	

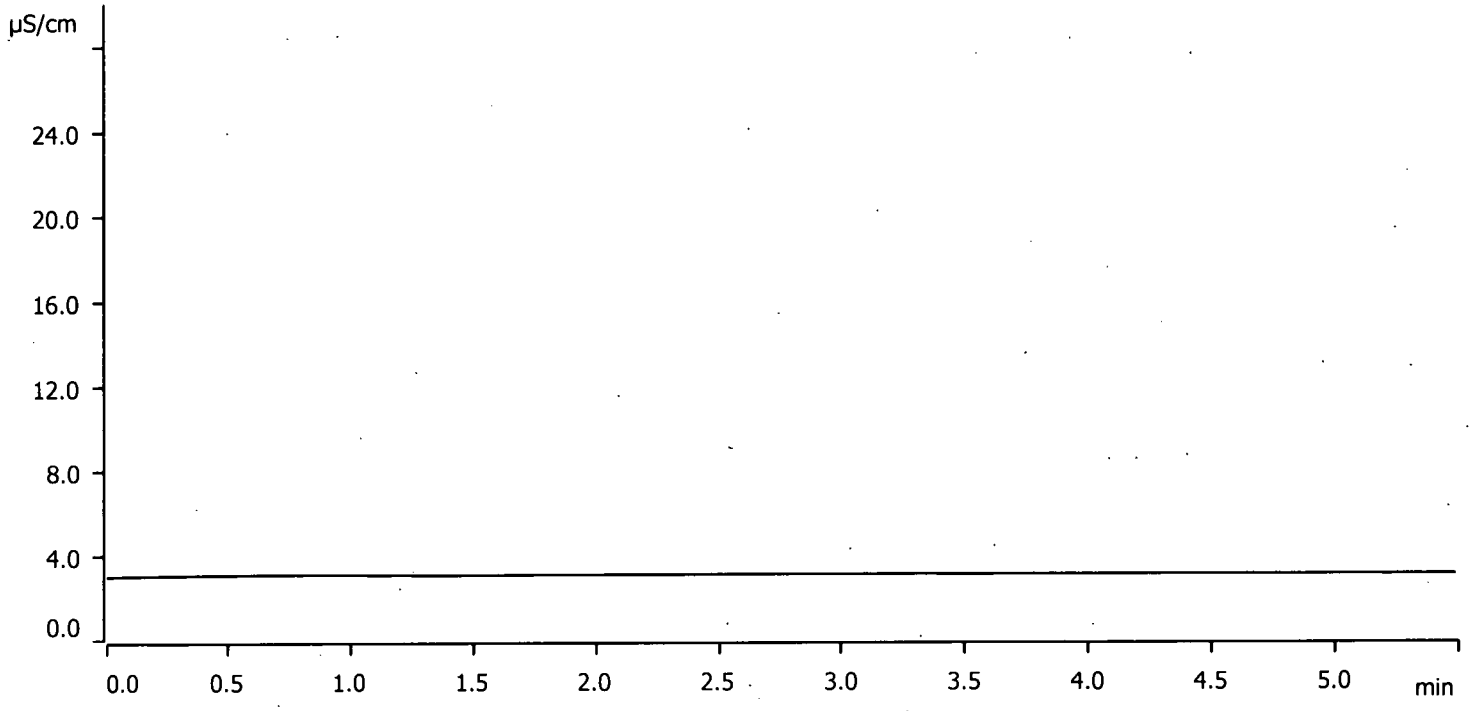
Anions



Sample data

Ident	R2401141-010
Sample type	Sample
Determination start	2024-02-26 17:32:23 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77034
Sample Position	28
Comment 1	300.0 C
Comment 2	

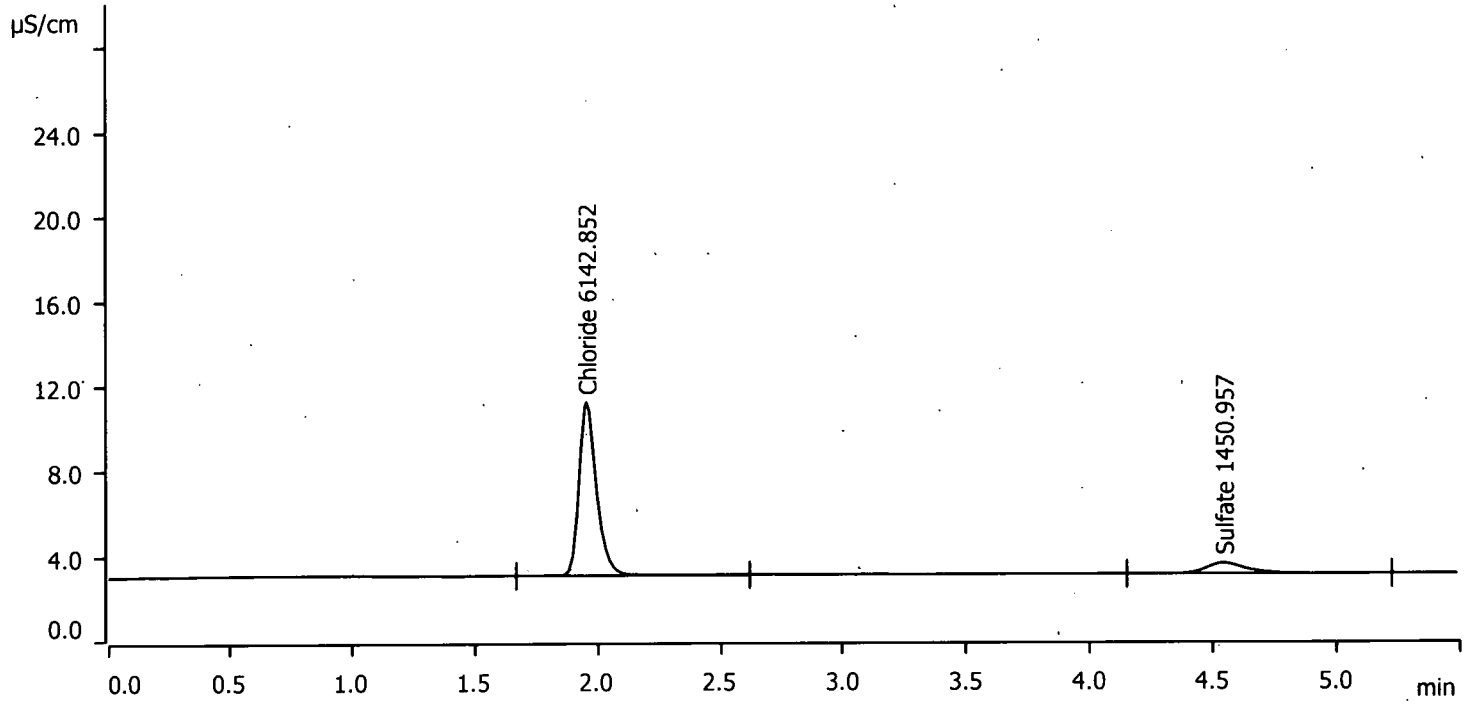
Anions



Sample data

Ident	R2401141-001
Sample type	Sample
Determination start	2024-02-26 17:39:14 UTC-5
Method	10-122723FAST
Dilution	1000
Counter	77035
Sample Position	29
Comment 1	300.0 C
Comment 2	

Anions



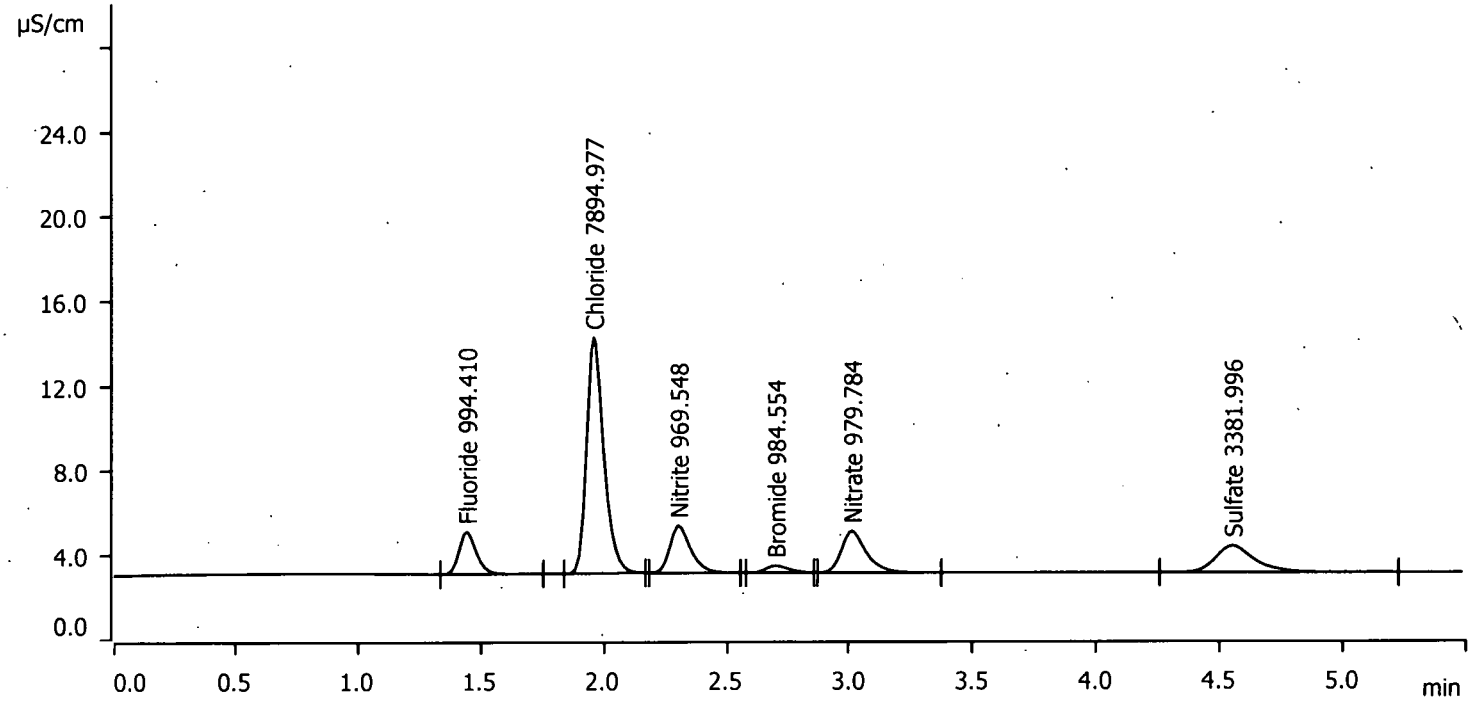
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.669	6142.852	Chloride	BB
2	4.54	0.096	1450.957	Sulfate	BB

Sample data

Ident	R2401141-001 MS!
Sample type	Sample
Determination start	2024-02-26 17:46:07 UTC-5
Method	10-122723FAST
Dilution	1000
Counter	77036
Sample Position	30
Comment 1	300.0 C
Comment 2	

Anions



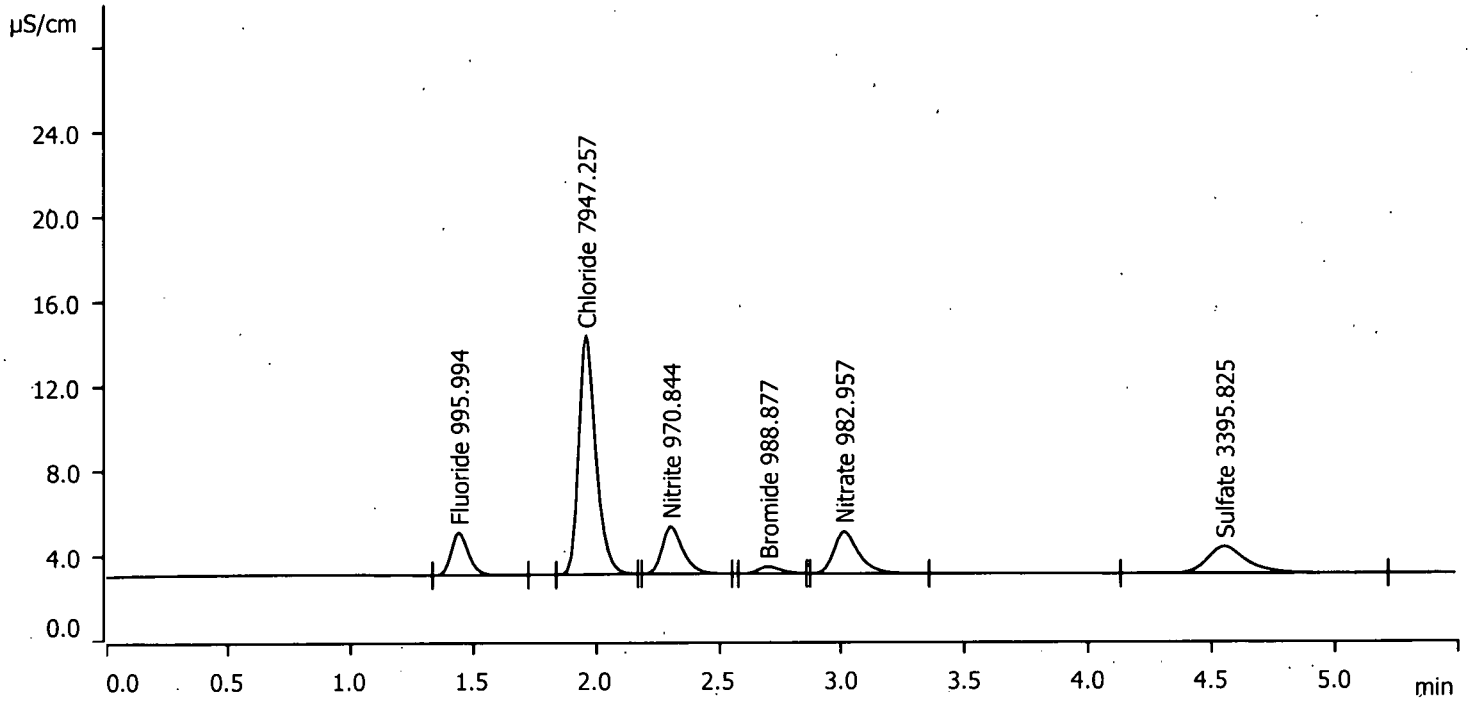
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.162	994.410	Fluoride	BB
2	1.96	0.905	7894.977	Chloride	BB
3	2.31	0.220	969.548	Nitrite	BB
4	2.70	0.035	984.554	Bromide	BB
5	3.01	0.228	979.784	Nitrate	BB
6	4.55	0.233	3381.996	Sulfate	BB

Sample data

Ident	R2401141-001 MSD!
Sample type	Sample
Determination start	2024-02-26 17:53:03 UTC-5
Method	10-122723FAST
Dilution	1000
Counter	77037
Sample Position	31
Comment 1	300.0 C
Comment 2	

Anions



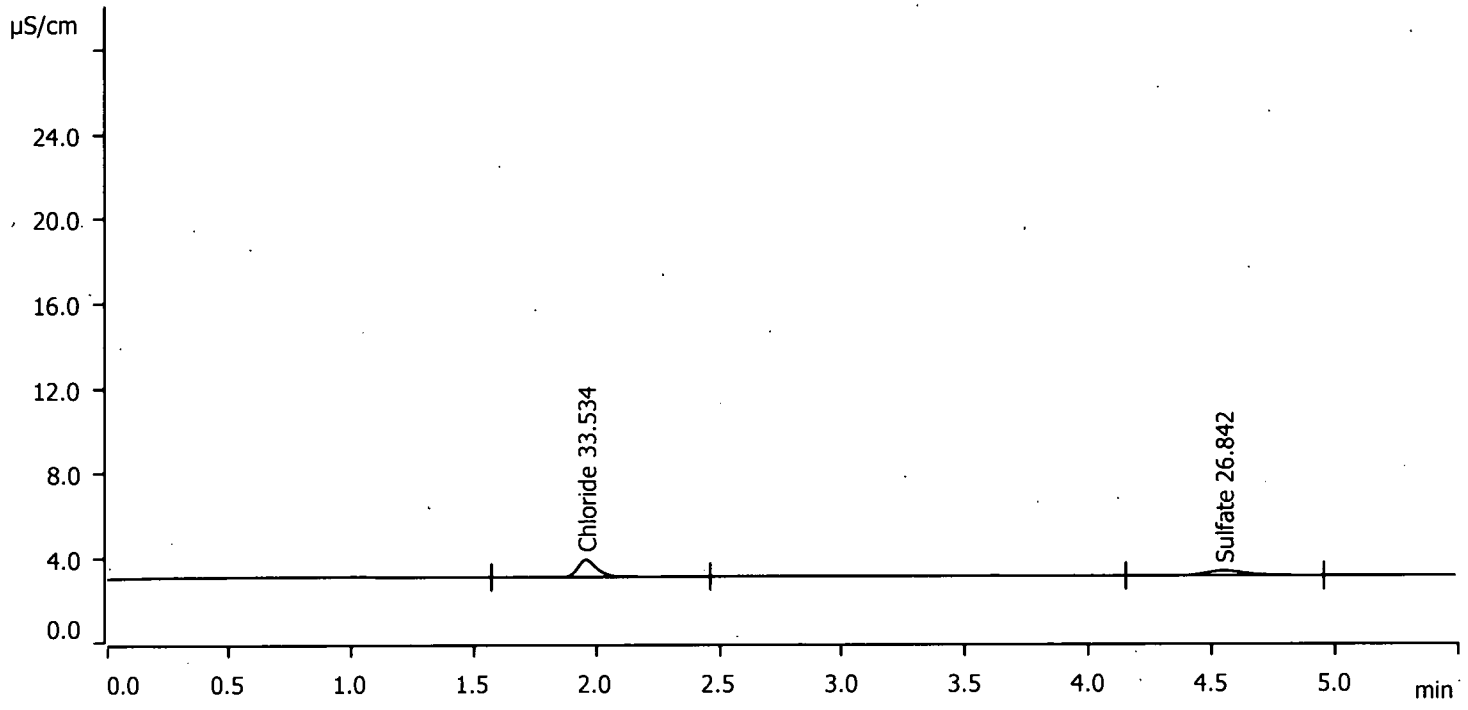
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.162	995.994	Fluoride	BB
2	1.96	0.912	7947.257	Chloride	BB
3	2.31	0.220	970.844	Nitrite	BB
4	2.70	0.035	988.877	Bromide	BB
5	3.01	0.229	982.957	Nitrate	BB
6	4.55	0.234	3395.825	Sulfate	BB

Sample data

Ident	R2401352-001 DNR
Sample type	Sample
Determination start	2024-02-26 17:59:56 UTC-5
Method	10-122723FAST
Dilution	40
Counter	77038
Sample Position	32
Comment 1	300.0 C
Comment 2	

Anions



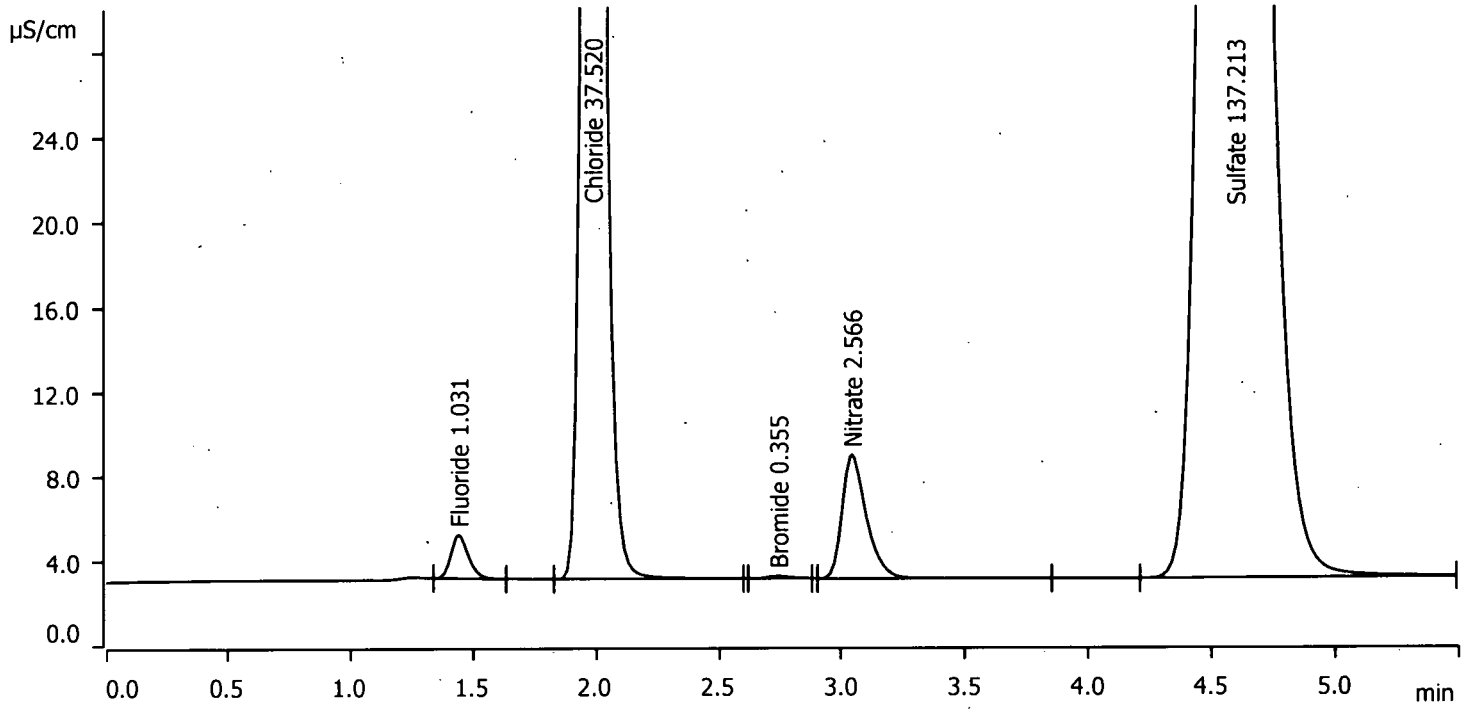
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.075	33.534	Chloride	BB
2	4.55	0.044	26.842	Sulfate	BB

Sample data

Ident	R2401363-002
Sample type	Sample
Determination start	2024-02-26 18:06:47 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77039
Sample Position	33
Comment 1	300.0 F
Comment 2	

Anions



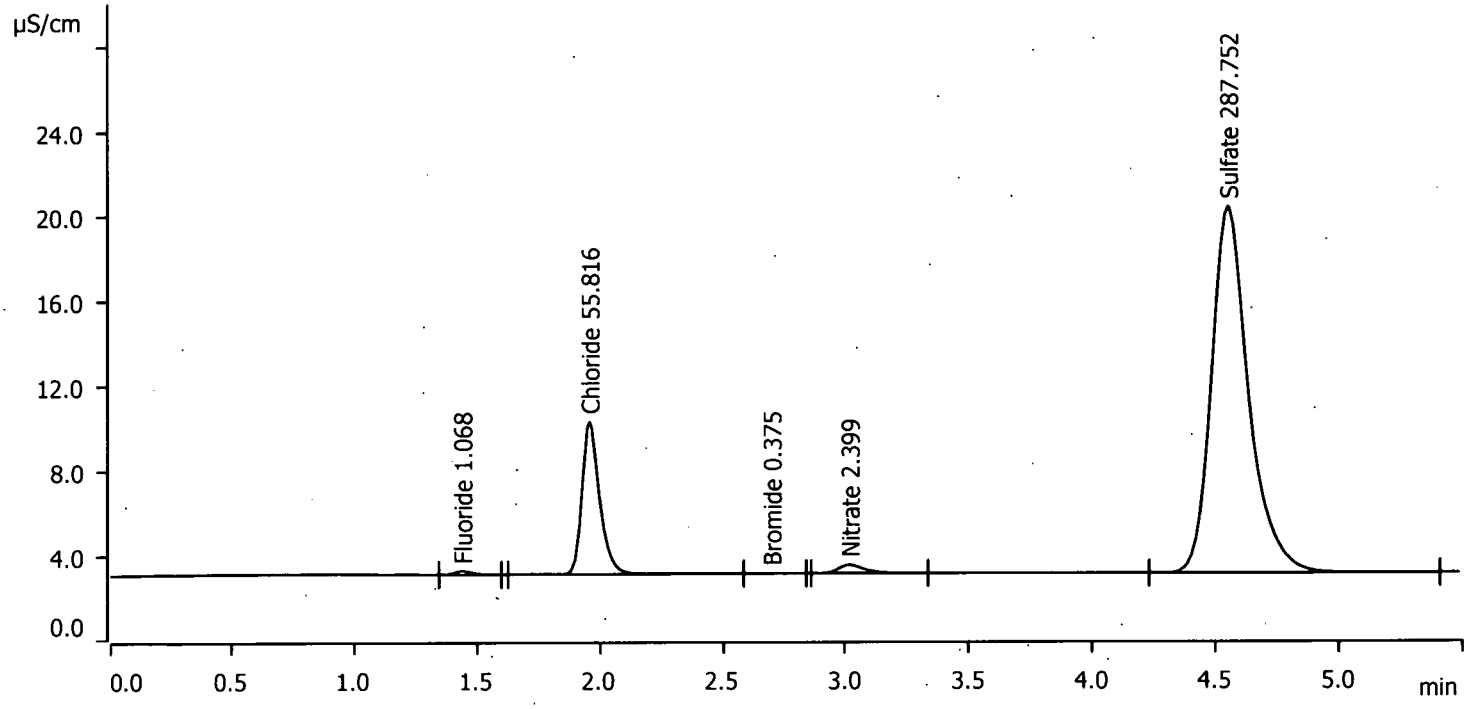
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.168	1.031	Fluoride	BB
2	1.99	7.836	37.520	Chloride	BB
3	2.74	0.012	0.355	Bromide	BB
4	3.04	0.667	2.566	Nitrate	BB
5	4.59	35.313	137.213	Sulfate	BB

Sample data

Ident	R2401363-002
Sample type	Sample
Determination start	2024-02-26 18:13:41 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77040
Sample Position	34
Comment 1	300.0 C
Comment 2	

Anions



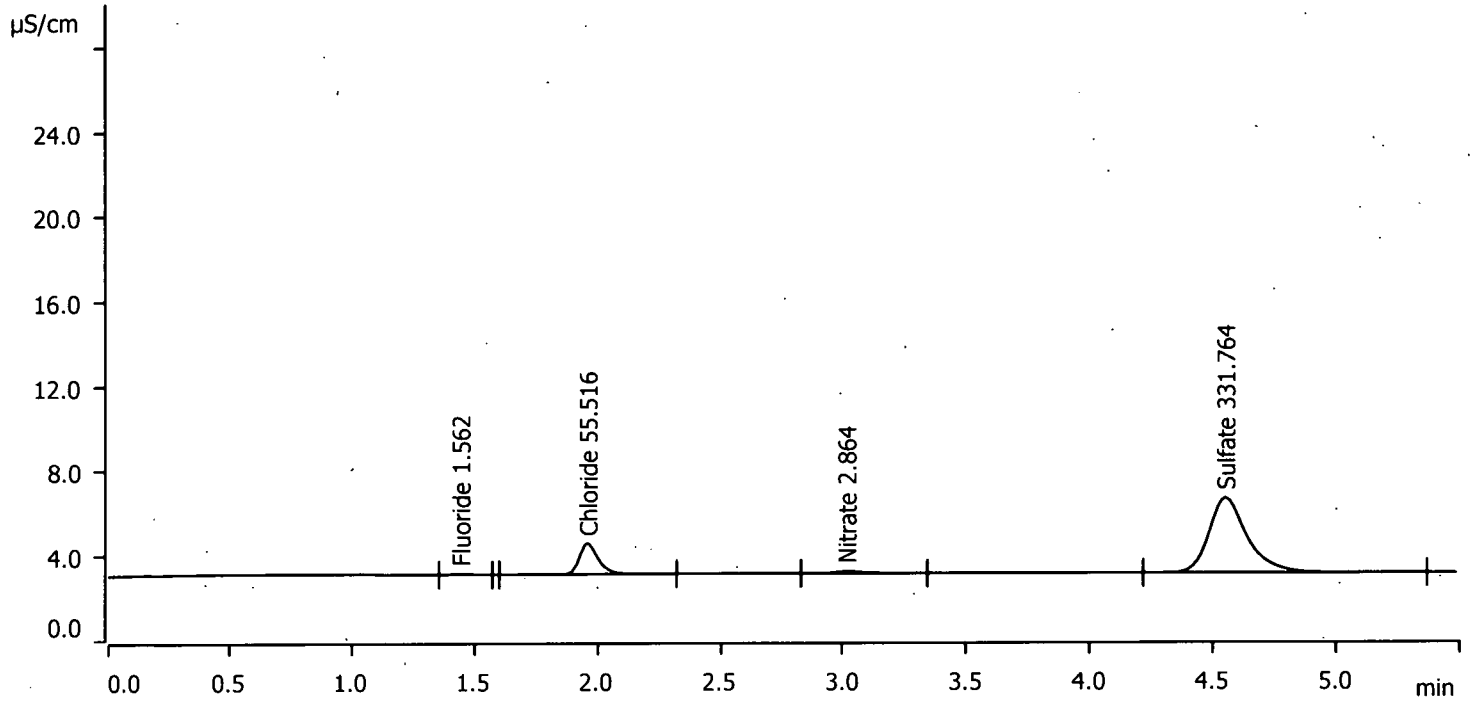
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.014	1.068	Fluoride	BB
2	1.96	0.598	55.816	Chloride	BB
3	2.70	0.001	0.375	Bromide	BB
4	3.02	0.051	2.399	Nitrate	BB
5	4.55	3.007	287.752	Sulfate	BB

Sample data

Ident	R2401363-002
Sample type	Sample
Determination start	2024-02-26 18:20:35 UTC-5
Method	10-122723FAST
Dilution	40
Counter	77041
Sample Position	35
Comment 1	300.0 S
Comment 2	

Anions



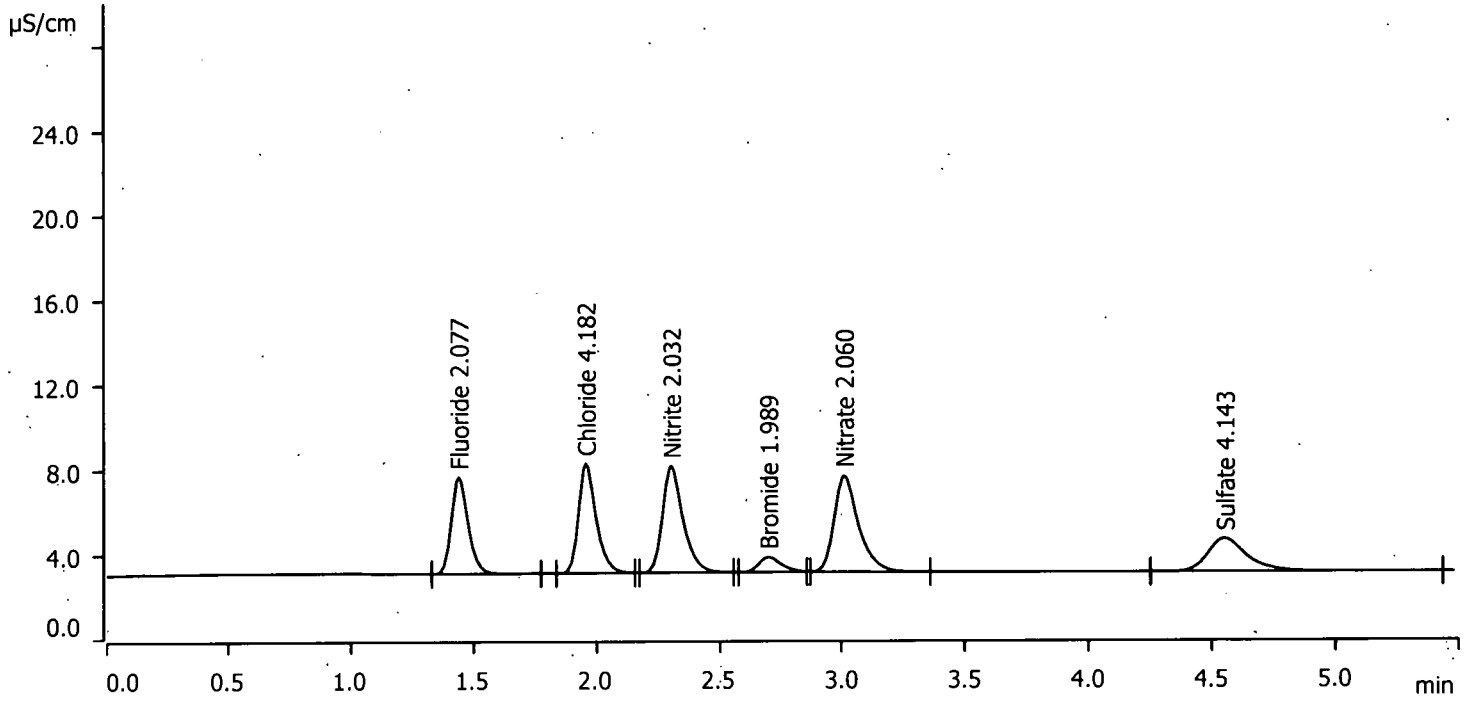
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.003	1.562	Fluoride	BB
2	1.96	0.128	55.516	Chloride	BB
3	3.01	0.013	2.864	Nitrate	BB
4	4.55	0.627	331.764	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-02-26 18:27:28 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77042
Sample Position	36
Comment 1	300.0/9056A
Comment 2	

Anions



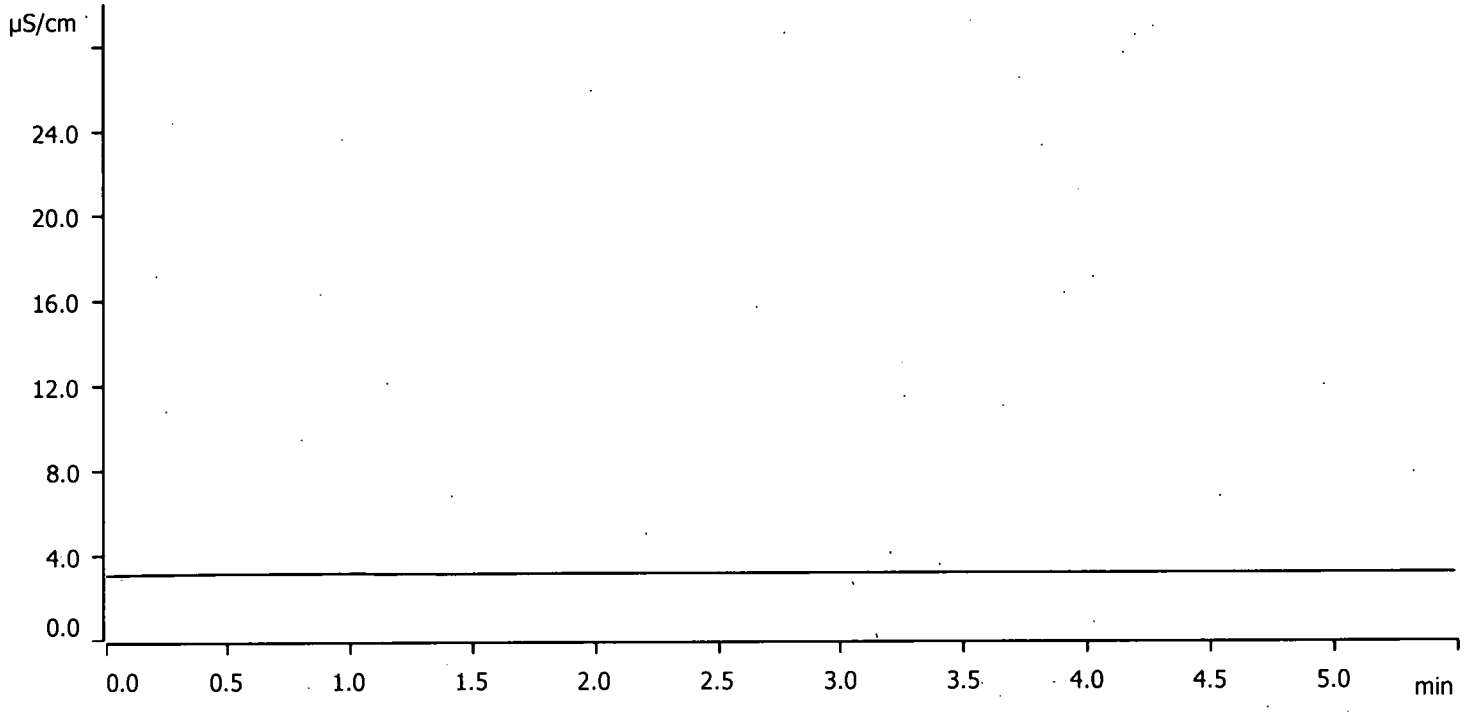
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.359	2.077	Fluoride	BB
2	1.96	0.429	4.182	Chloride	BB
3	2.31	0.490	2.032	Nitrite	BB
4	2.70	0.074	1.989	Bromide	BB
5	3.01	0.519	2.060	Nitrate	BB
6	4.55	0.289	4.143	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-02-26 18:34:21 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77043
Sample Position	37
Comment 1	300.0/9056A
Comment 2	

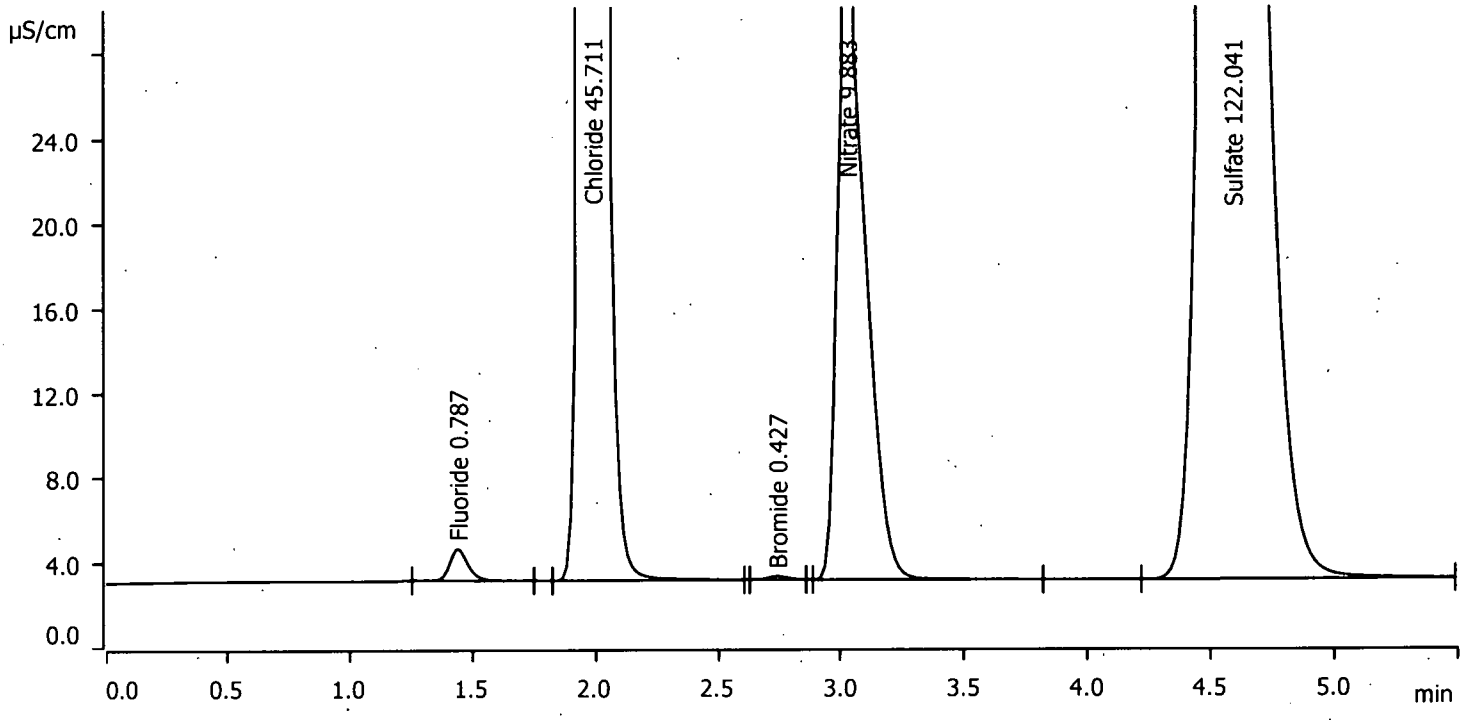
Anions



Sample data

Ident	R2401363-020
Sample type	Sample
Determination start	2024-02-26 18:41:12 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77044
Sample Position	38
Comment 1	300.0 F
Comment 2	

Anions



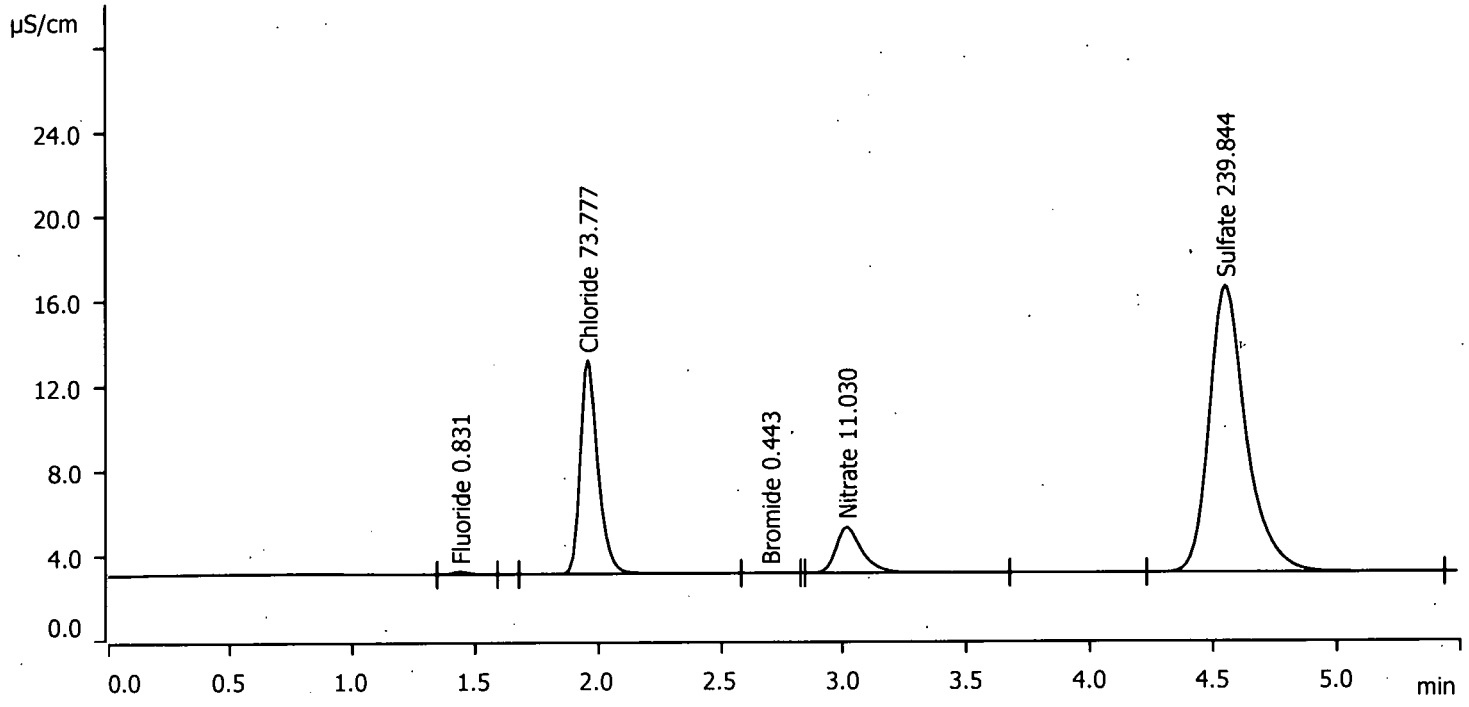
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.126	0.787	Fluoride	BB
2	1.99	10.735	45.711	Chloride	BB
3	2.74	0.015	0.427	Bromide	BB
4	3.03	3.727	9.883	Nitrate	BB
5	4.59	28.798	122.041	Sulfate	BB

Sample data

Ident	R2401363-020
Sample type	Sample
Determination start	2024-02-26 18:48:05 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77045
Sample Position	39
Comment 1	300.0 C
Comment 2	

Anions



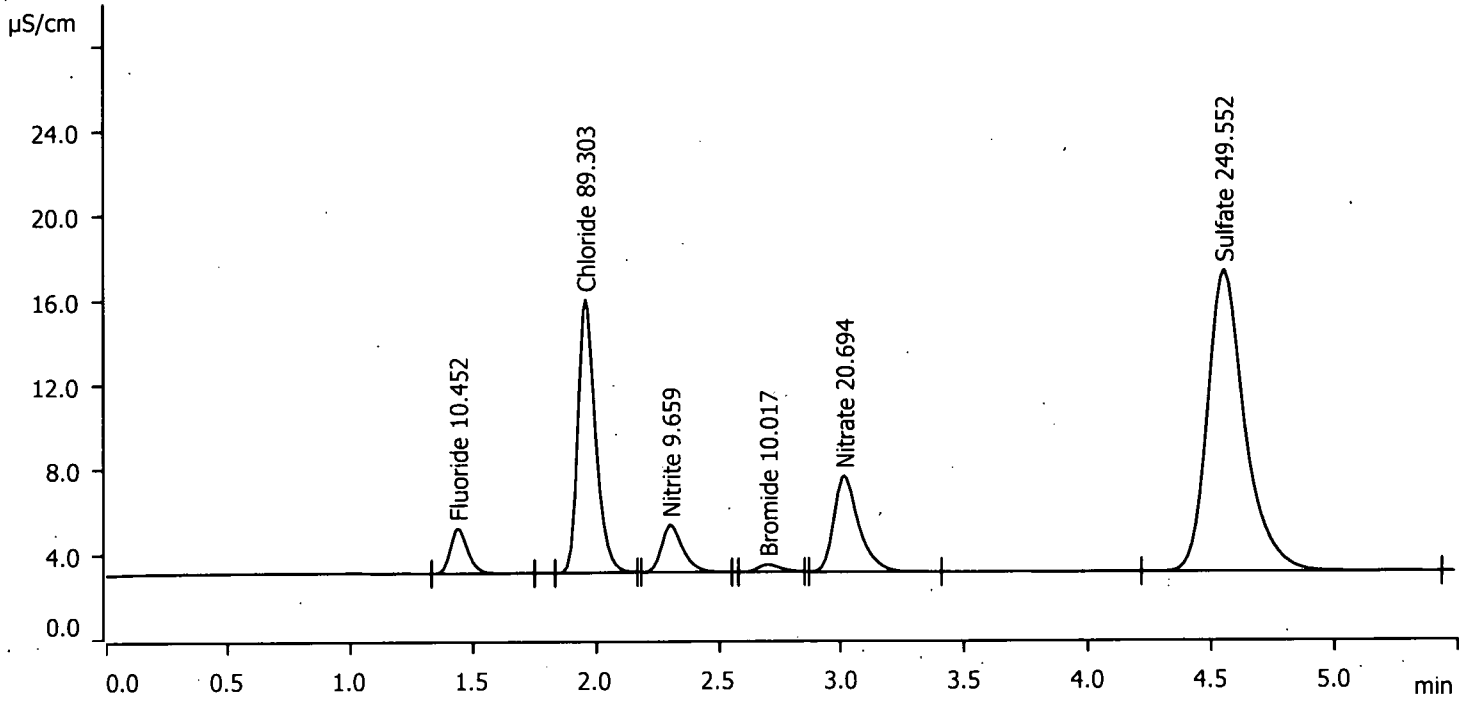
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.010	0.831	Fluoride	BB
2	1.96	0.833	73.777	Chloride	BB
3	2.70	0.001	0.443	Bromide	BB
4	3.01	0.259	11.030	Nitrate	BB
5	4.55	2.344	239.844	Sulfate	BB

Sample data

Ident	R2401363-020 MS
Sample type	Sample
Determination start	2024-02-26 18:54:58 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77046
Sample Position	40
Comment 1	300.0 C
Comment 2	

Anions



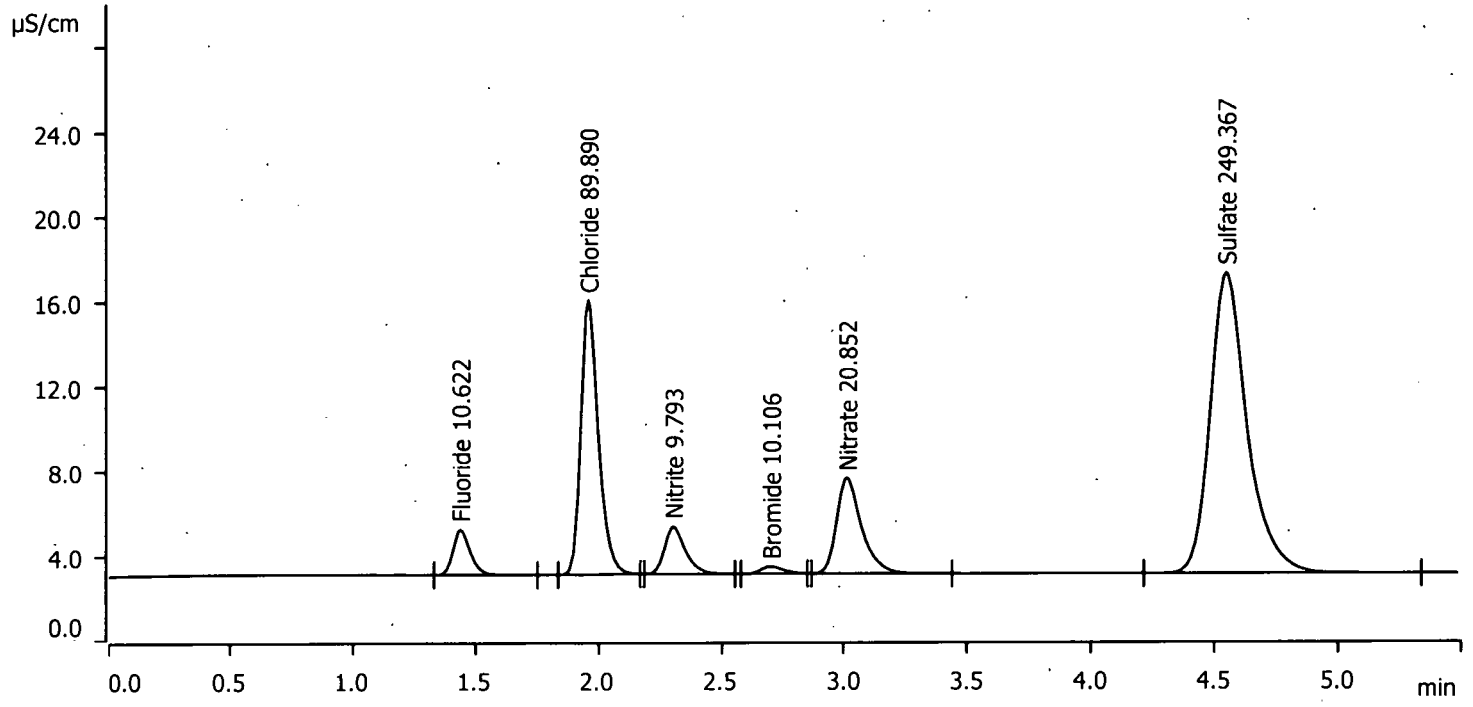
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.171	10.452	Fluoride	BB
2	1.96	1.053	89.303	Chloride	BB
3	2.31	0.219	9.659	Nitrite	BB
4	2.70	0.036	10.017	Bromide	BB
5	3.01	0.521	20.694	Nitrate	BB
6	4.55	2.473	249.552	Sulfate	BB

Sample data

Ident	R2401363-020 MSD
Sample type	Sample
Determination start	2024-02-26 19:01:52 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77047
Sample Position	41
Comment 1	300.0 C
Comment 2	

Anions



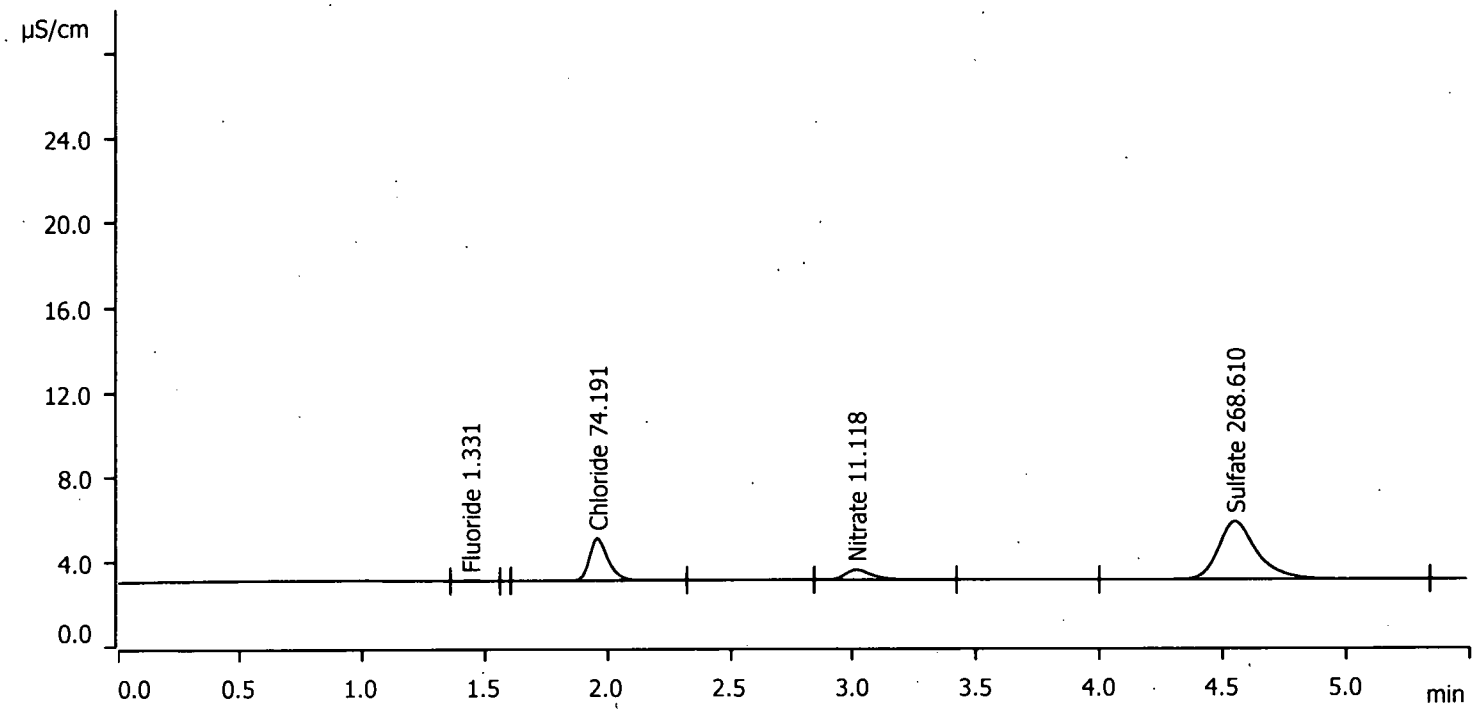
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.174	10.622	Fluoride	BB
2	1.96	1.062	89.890	Chloride	BB
3	2.31	0.222	9.793	Nitrite	BB
4	2.70	0.036	10.106	Bromide	BB
5	3.01	0.526	20.852	Nitrate	BB
6	4.55	2.471	249.367	Sulfate	BB

Sample data

Ident	R2401363-020
Sample type	Sample
Determination start	2024-02-26 19:08:45 UTC-5
Method	10-122723FAST
Dilution	40
Counter	77048
Sample Position	42
Comment 1	300.0 S
Comment 2	

Anions



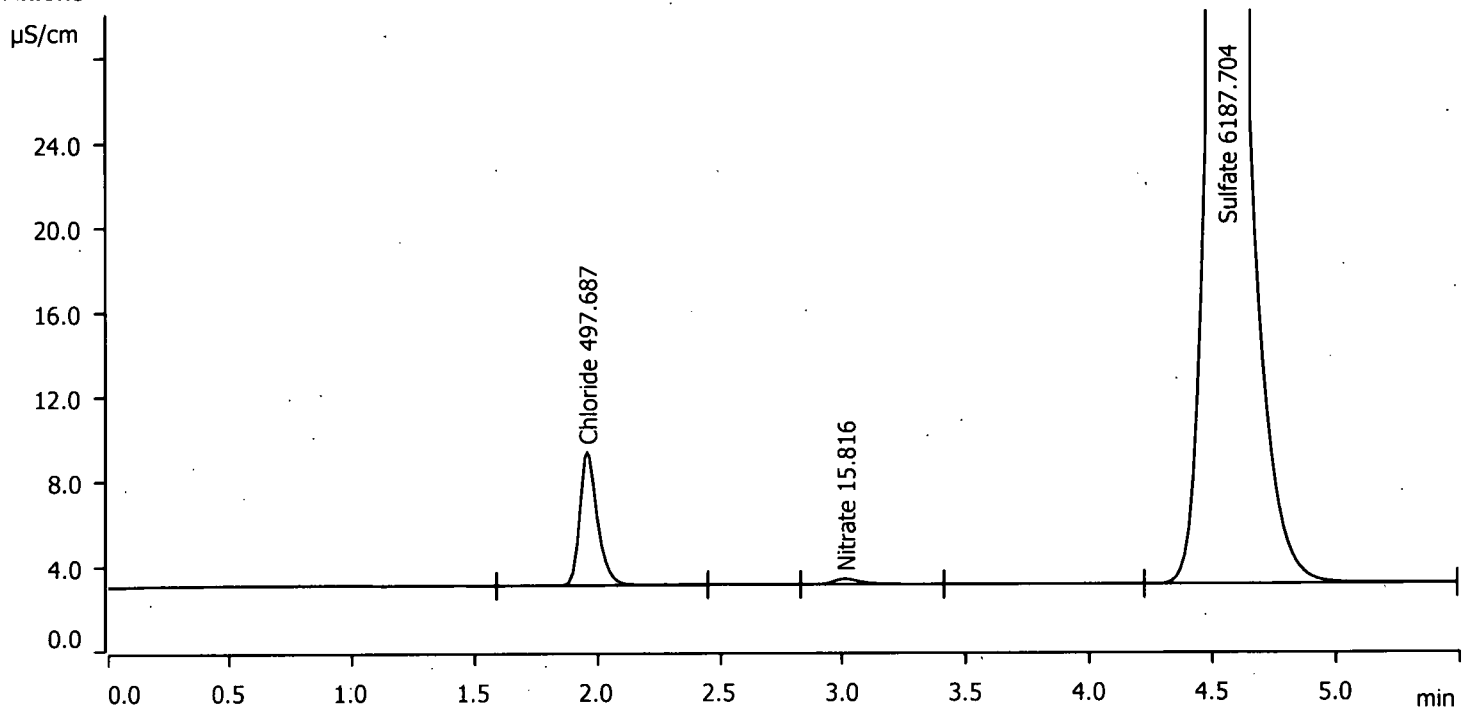
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.002	1.331	Fluoride	BB
2	1.96	0.175	74.191	Chloride	BB
3	3.01	0.059	11.118	Nitrate	BB
4	4.55	0.493	268.610	Sulfate	BB

Sample data

Ident	R2401374-001
Sample type	Sample
Determination start	2024-02-26 19:15:37 UTC-5
Method	10-122723FAST
Dilution	100
Counter	77049
Sample Position	43
Comment 1	300.0 C
Comment 2	

Anions



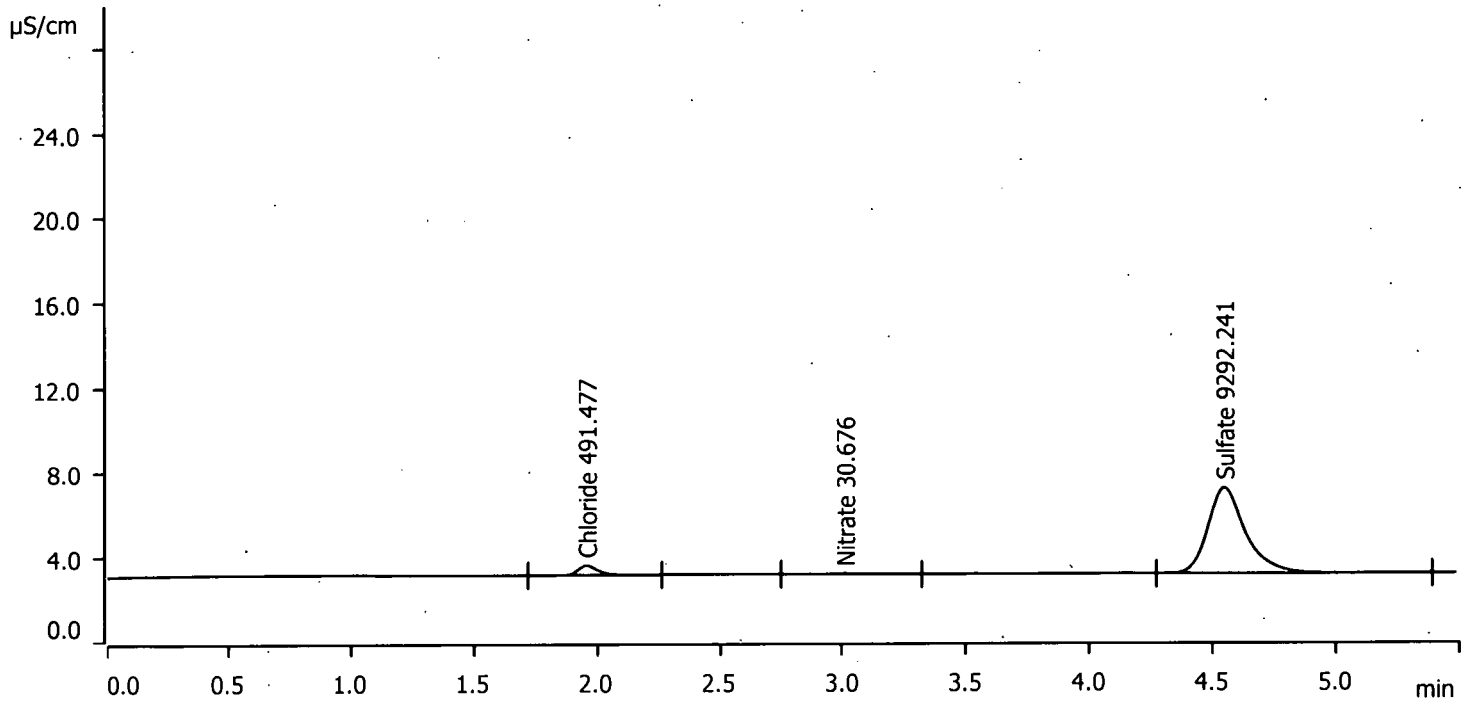
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.523	497.687	Chloride	BB
2	3.01	0.032	15.816	Nitrate	BB
3	4.56	9.353	6187.704	Sulfate	BB

Sample data

Ident	R2401374-001
Sample type	Sample
Determination start	2024-02-26 19:22:29 UTC-5
Method	10-122723FAST
Dilution	1000
Counter	77050
Sample Position	44
Comment 1	300.0 S
Comment 2	

Anions



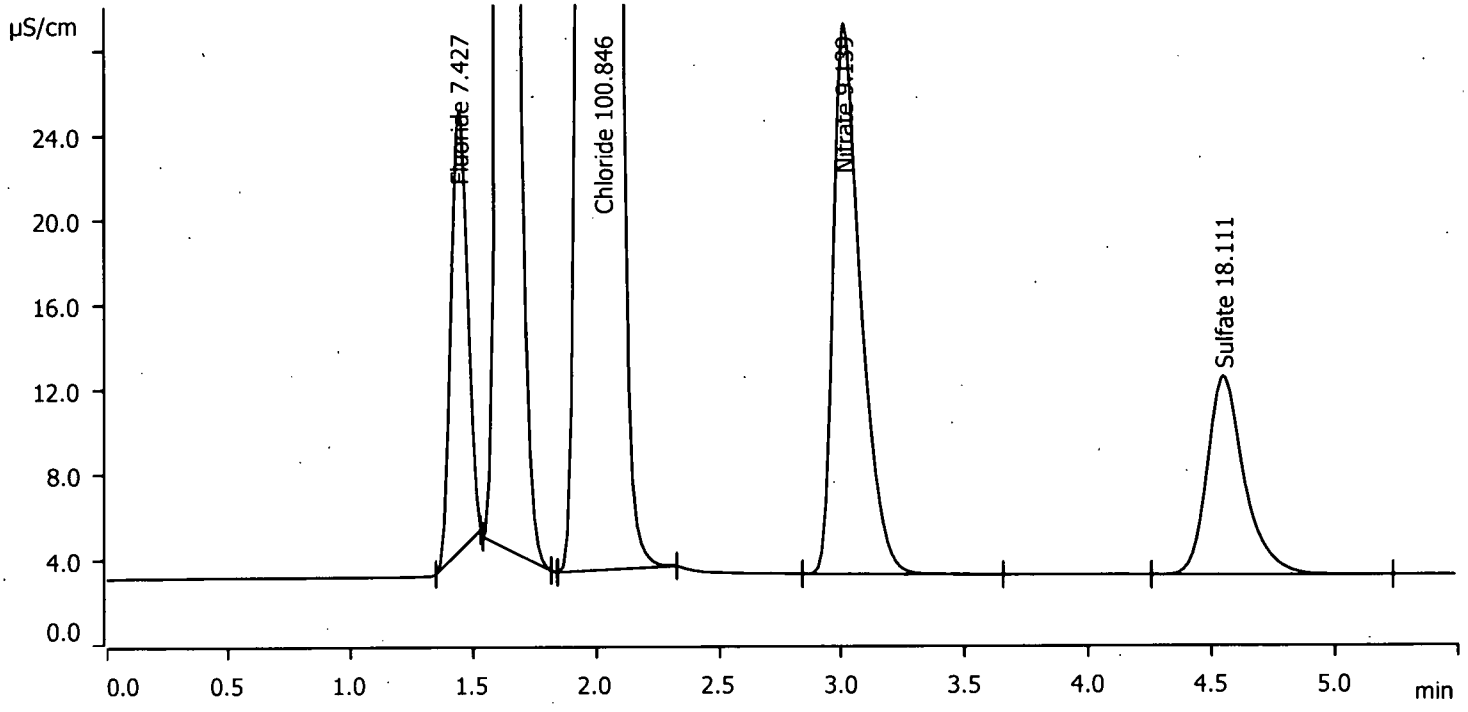
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.042	491.477	Chloride	BB
2	3.01	0.003	30.676	Nitrate	BB
3	4.55	0.716	9292.241	Sulfate	BB

Sample data

Ident	R2401387-001 DNR
Sample type	Sample
Determination start	2024-02-26 19:29:21 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77051
Sample Position	45
Comment 1	300.0 F
Comment 2	

Anions



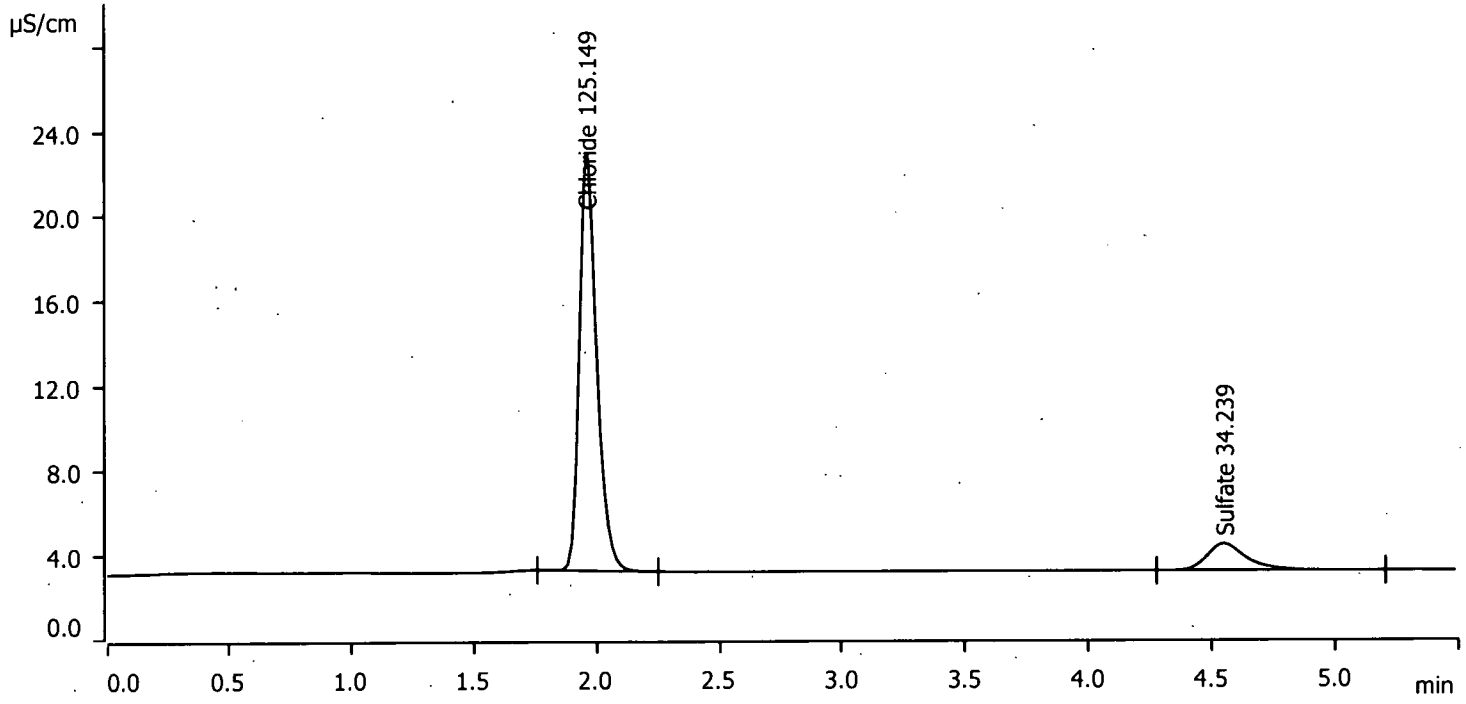
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	1.616	7.427	Fluoride	BB
3	2.03	41.321	100.846	Chloride	BB
4	3.01	3.338	9.139	Nitrate	BB
5	4.54	1.620	18.111	Sulfate	BB

Sample data

Ident	R2401280-002 DNR
Sample type	Sample
Determination start	2024-02-26 19:36:18 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77052
Sample Position	46
Comment 1	300.0 C
Comment 2	

Anions



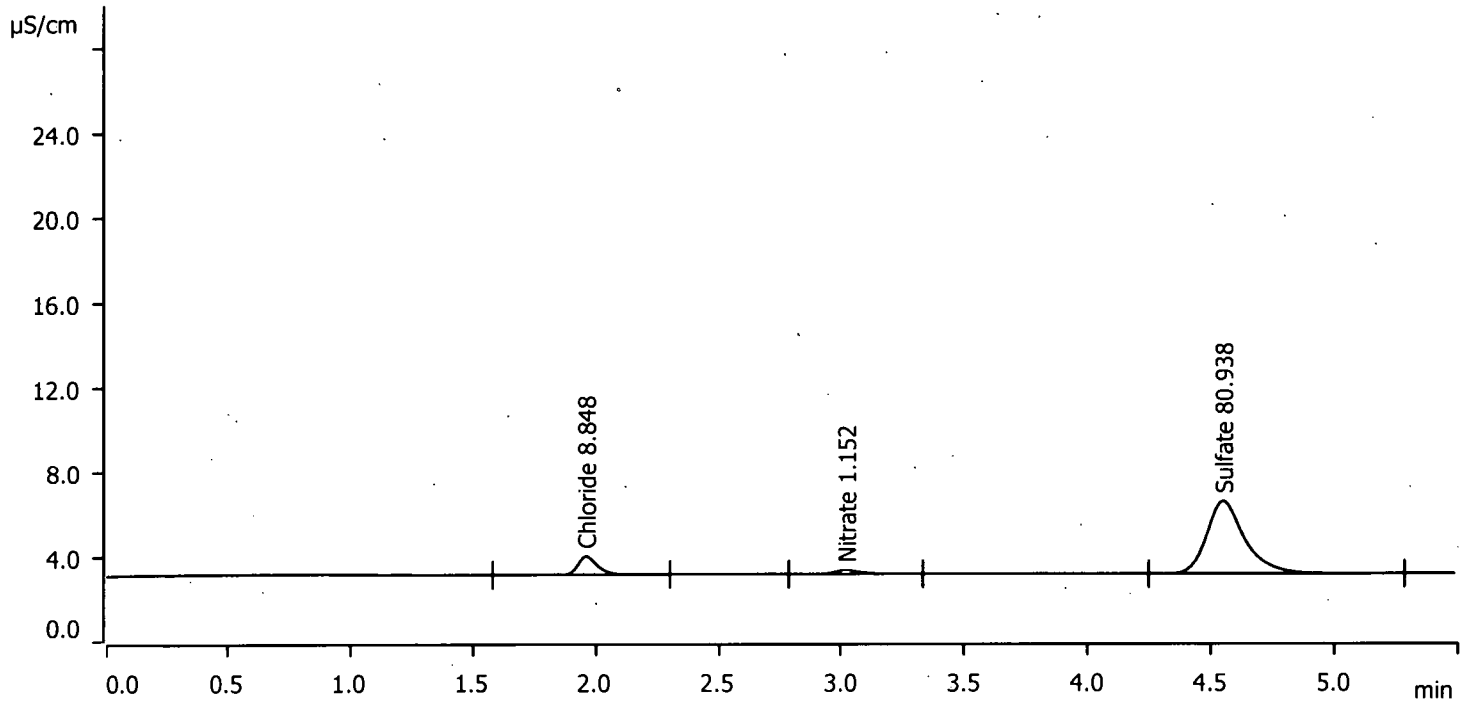
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	1.619	125.149	Chloride	BB
2	4.55	0.236	34.239	Sulfate	BB

Sample data

Ident	R2401280-003
Sample type	Sample
Determination start	2024-02-26 19:43:09 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77053
Sample Position	47
Comment 1	300.0 & SO4 04/27/24
Comment 2	

Anions



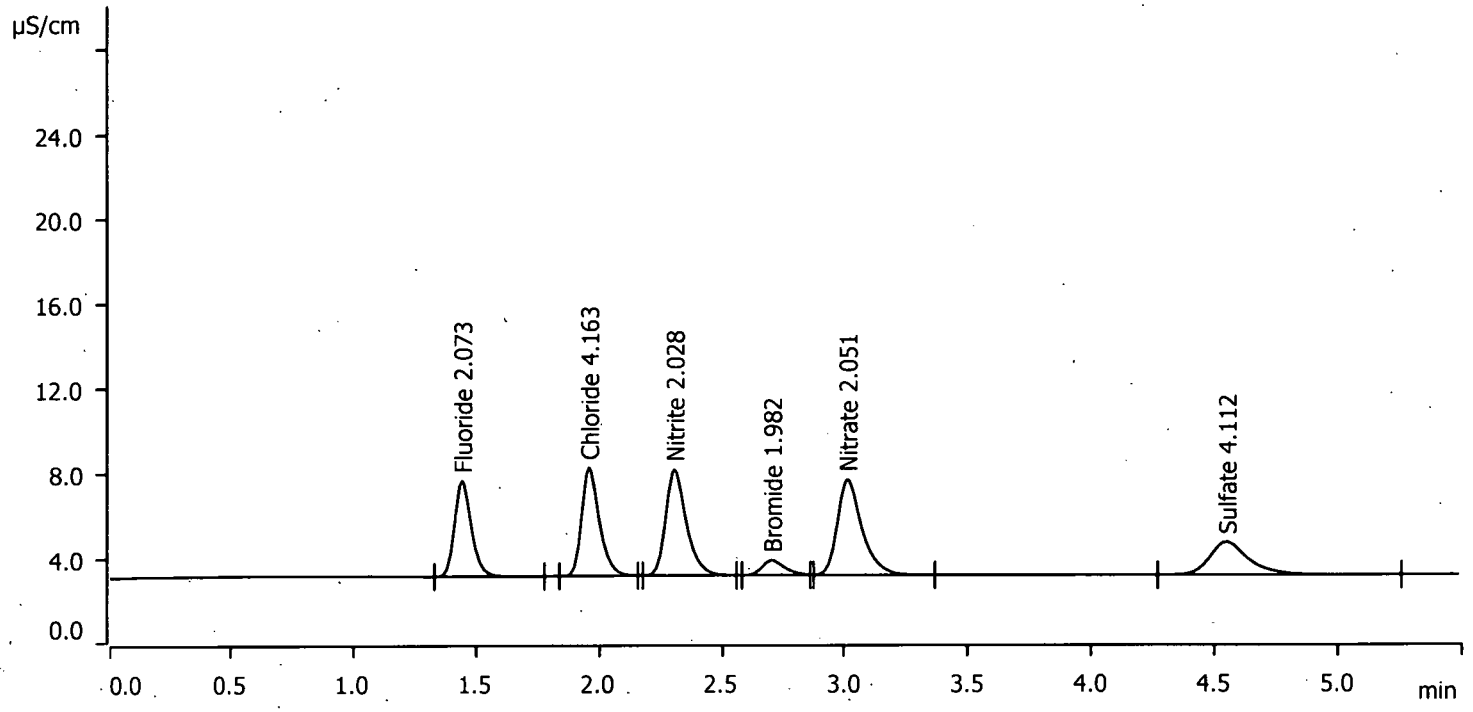
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.079	8.848	Chloride	BB
2	3.02	0.022	1.152	Nitrate	BB
3	4.55	0.610	80.938	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-02-26 19:50:02 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77054
Sample Position	48
Comment 1	300.0/9056A
Comment 2	

Anions



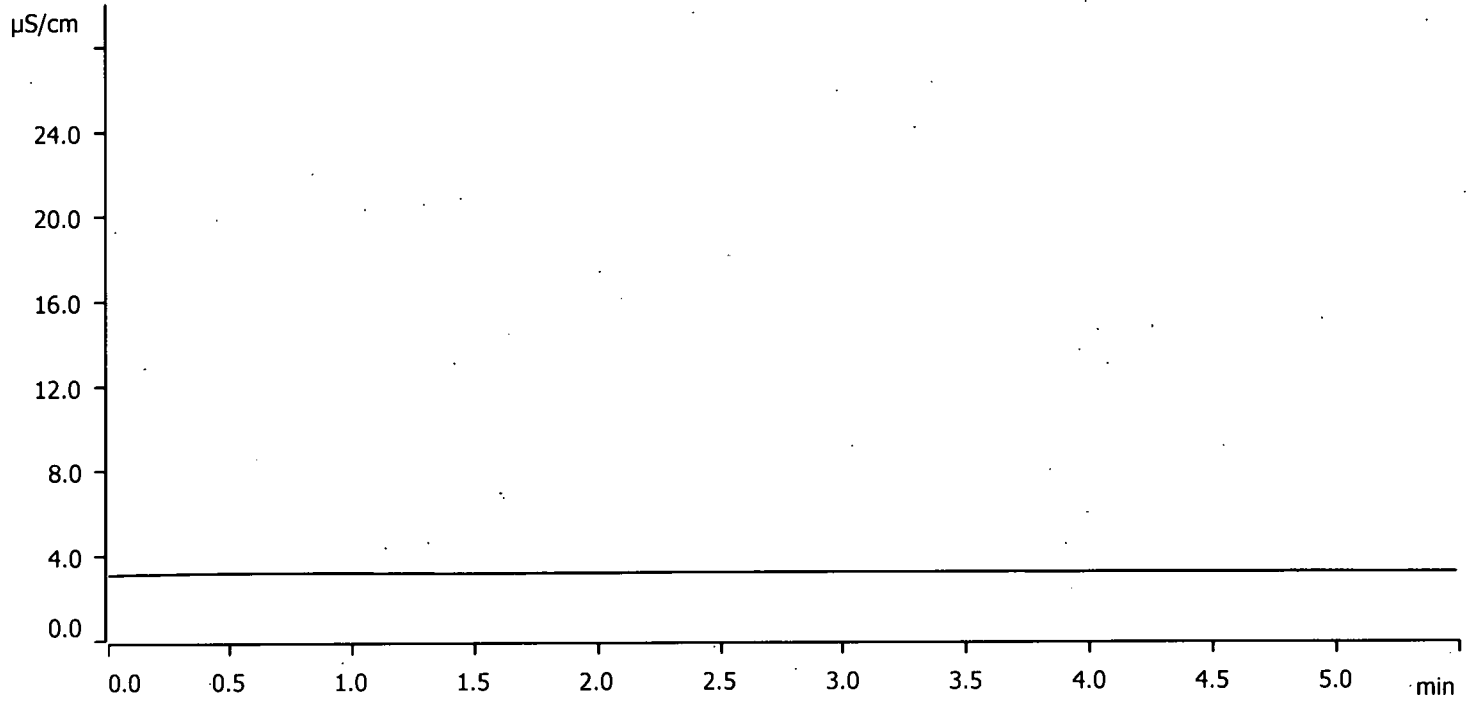
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.359	2.073	Fluoride	BB
2	1.96	0.427	4.163	Chloride	BB
3	2.31	0.489	2.028	Nitrite	BB
4	2.71	0.073	1.982	Bromide	BB
5	3.01	0.516	2.051	Nitrate	BB
6	4.55	0.287	4.112	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-02-26 19:56:55 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77055
Sample Position	49
Comment 1	300.0/9056A
Comment 2	

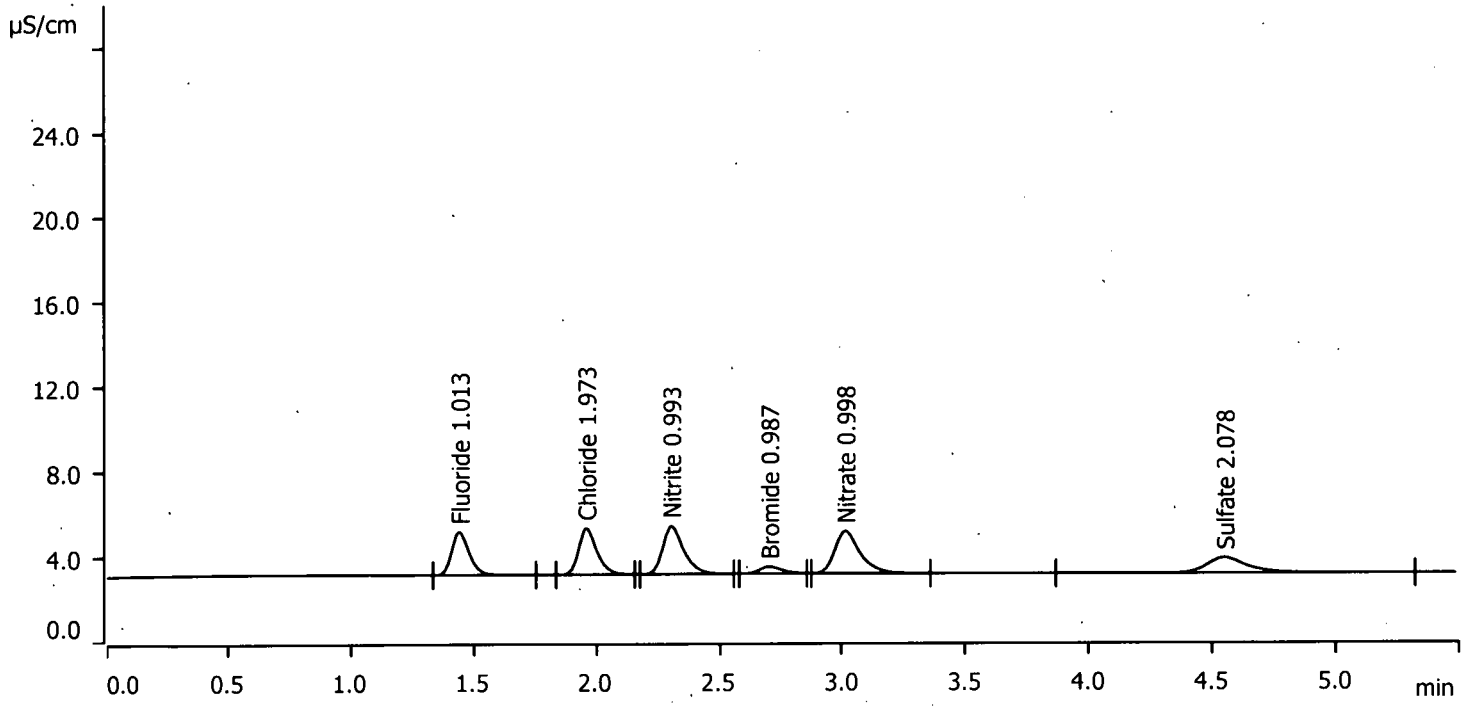
Anions



Sample data

Ident	LCS
Sample type	Check standard 2
Determination start	2024-02-26 20:03:45 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77056
Sample Position	50
Comment 1	300.0/9056A
Comment 2	

Anions



Anions

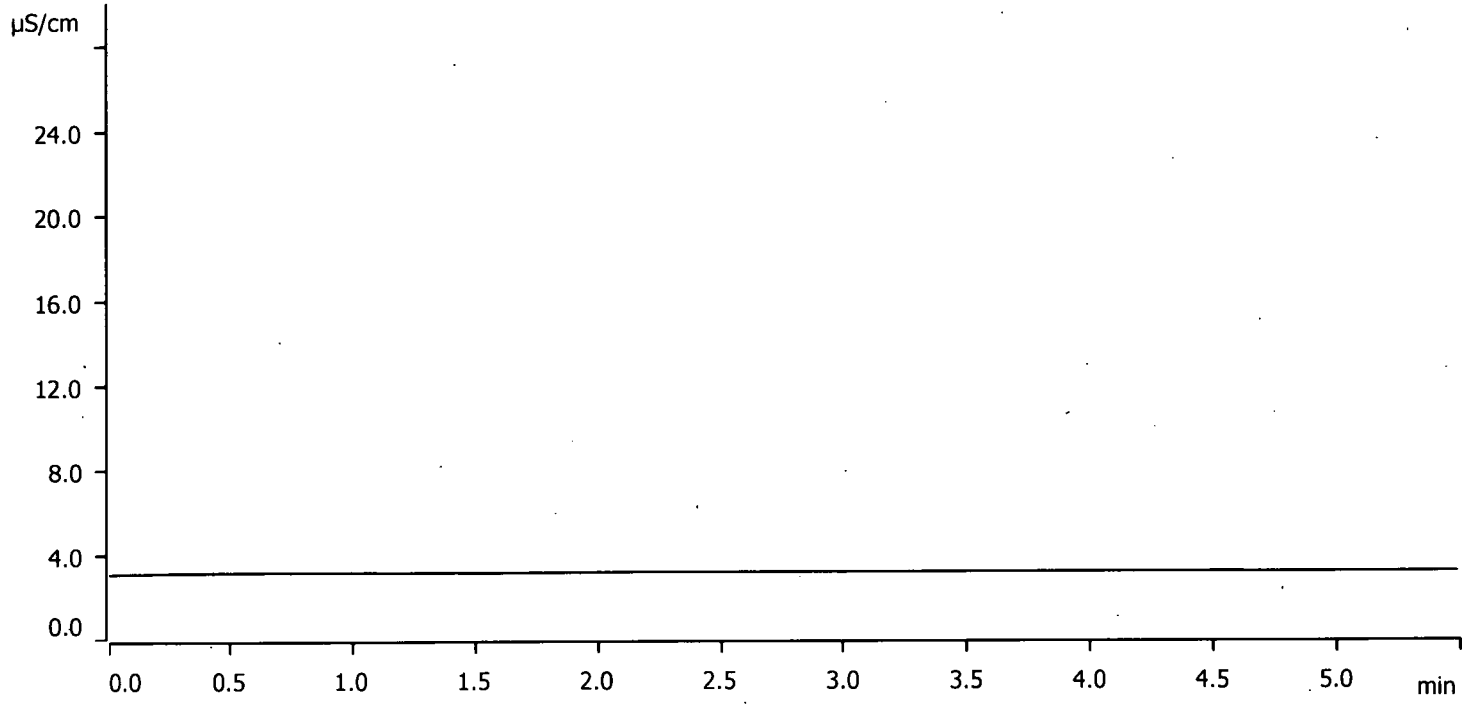
Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.165	1.013	Fluoride	BB
2	1.96	0.187	1.973	Chloride	BB
3	2.31	0.225	0.993	Nitrite	BB
4	2.70	0.035	0.987	Bromide	BB
5	3.01	0.233	0.998	Nitrate	BB
6	4.55	0.139	2.078	Sulfate	BB

Sample data

Ident	R2401280-004
Sample type	Sample
Determination start	2024-02-26 20:10:39 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77057
Sample Position	51
Comment 1	300.0 ✓ SO4
Comment 2	

OK 2/27/24

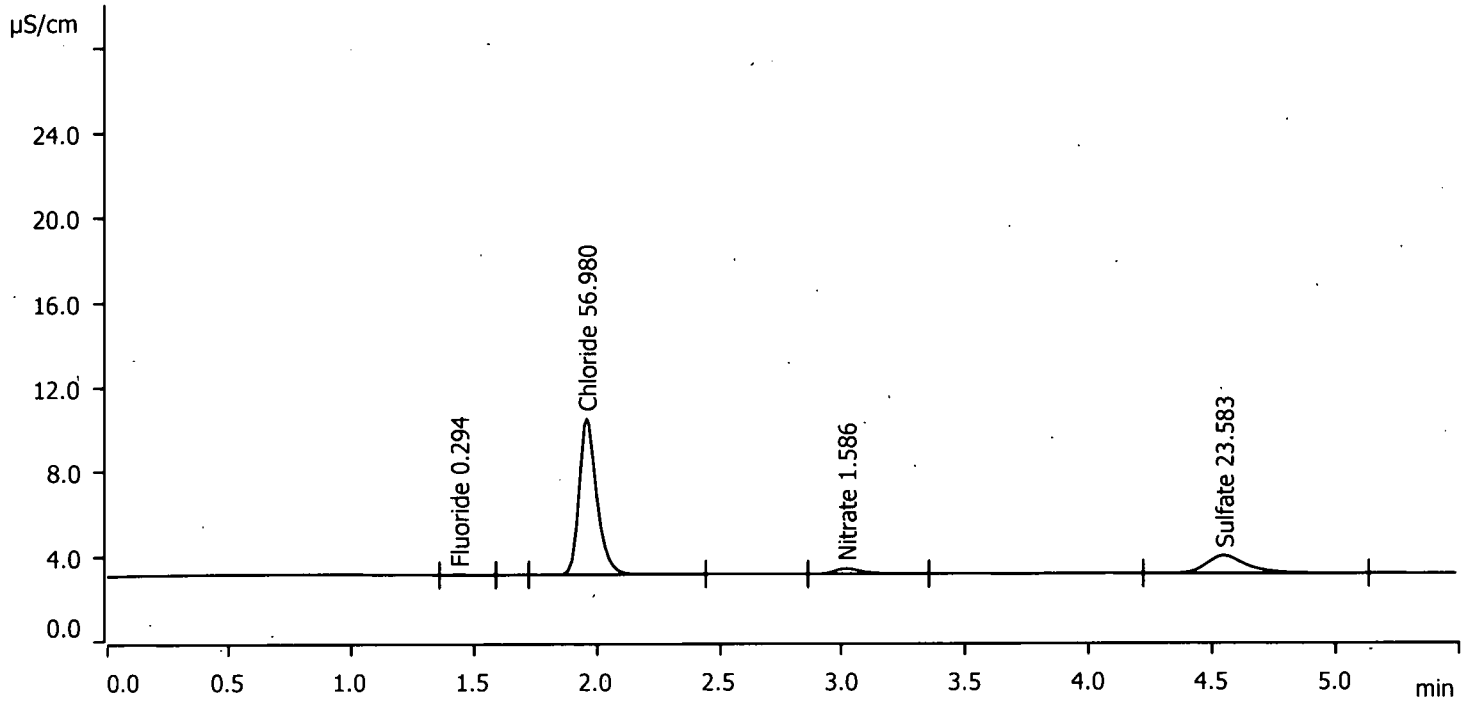
Anions



Sample data

Ident	R2401280-006
Sample type	Sample
Determination start	2024-02-26 20:17:30 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77058
Sample Position	52
Comment 1	300.0 & SO4 CEZ 7/24
Comment 2	

Anions



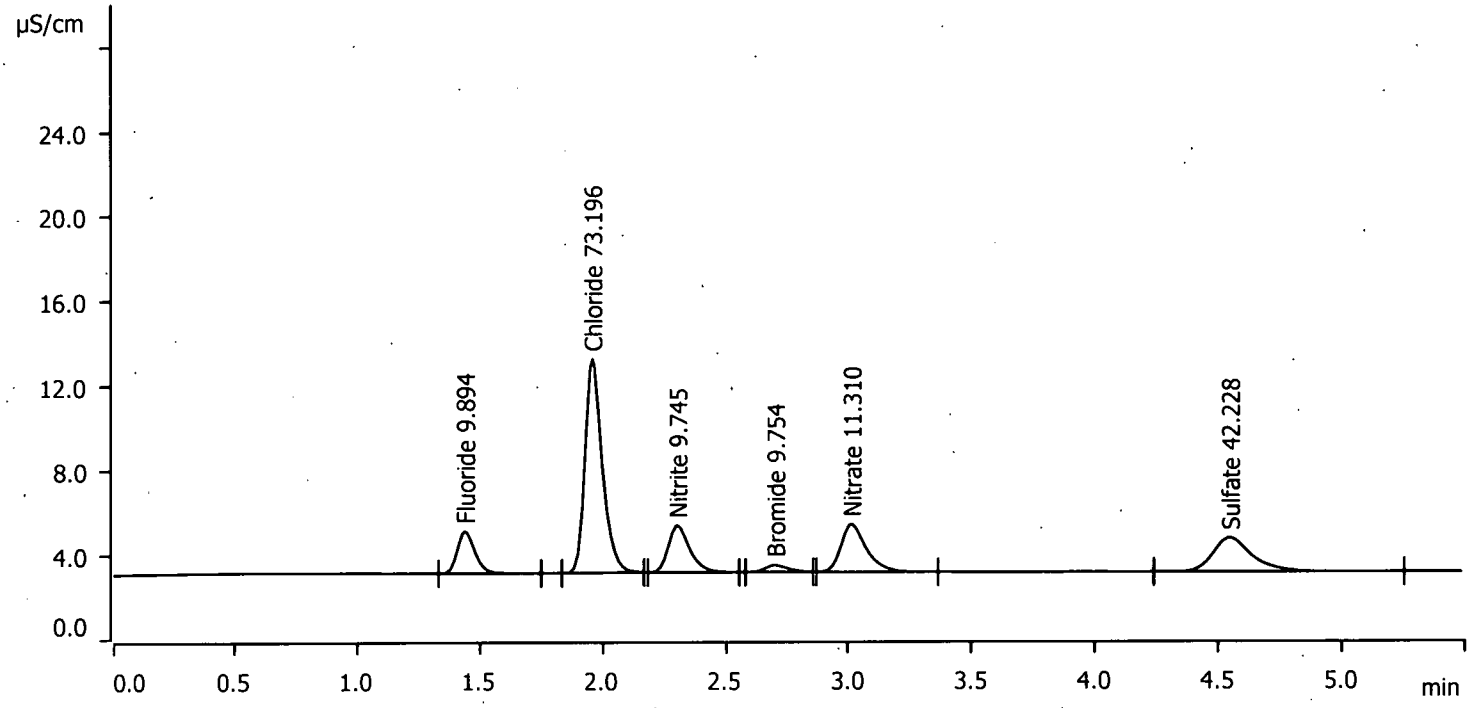
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.002	0.294	Fluoride	BB
2	1.96	0.613	56.980	Chloride	BB
3	3.02	0.032	1.586	Nitrate	BB
4	4.54	0.159	23.583	Sulfate	BB

Sample data

Ident	R2401280-006 MS
Sample type	Sample
Determination start	2024-02-26 20:24:22 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77059
Sample Position	53
Comment 1	300.0 ~~E~~ SO4
Comment 2	02/27/24

Anions



Anions

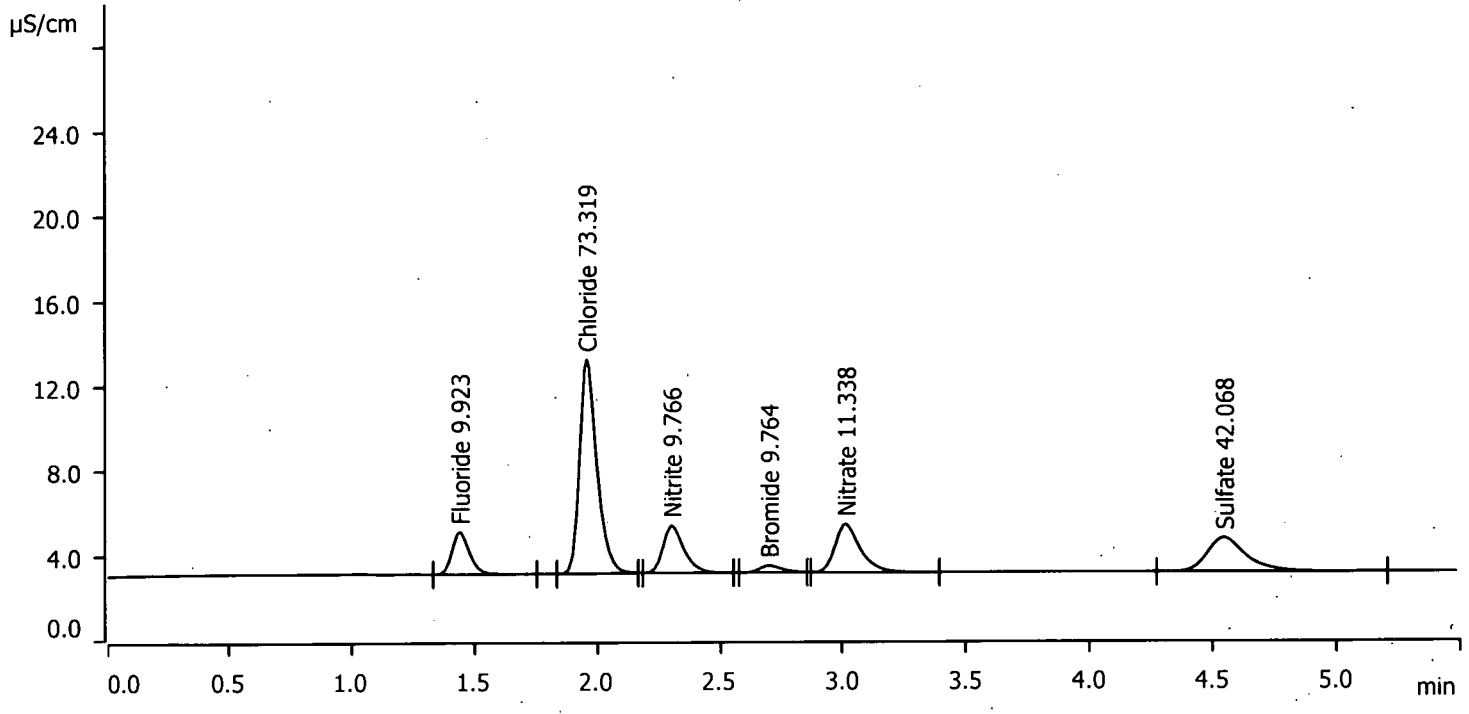
Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.161	9.894	Fluoride	BB
2	1.96	0.825	73.196	Chloride	BB
3	2.31	0.221	9.745	Nitrite	BB
4	2.70	0.035	9.754	Bromide	BB
5	3.01	0.267	11.310	Nitrate	BB
6	4.54	0.295	42.228	Sulfate	BB

Sample data

Ident	R2401280-006 MSD
Sample type	Sample
Determination start	2024-02-26 20:31:15 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77060
Sample Position	54
Comment 1	300.0 ~~SO4~~
Comment 2	

02/27/24

Anions



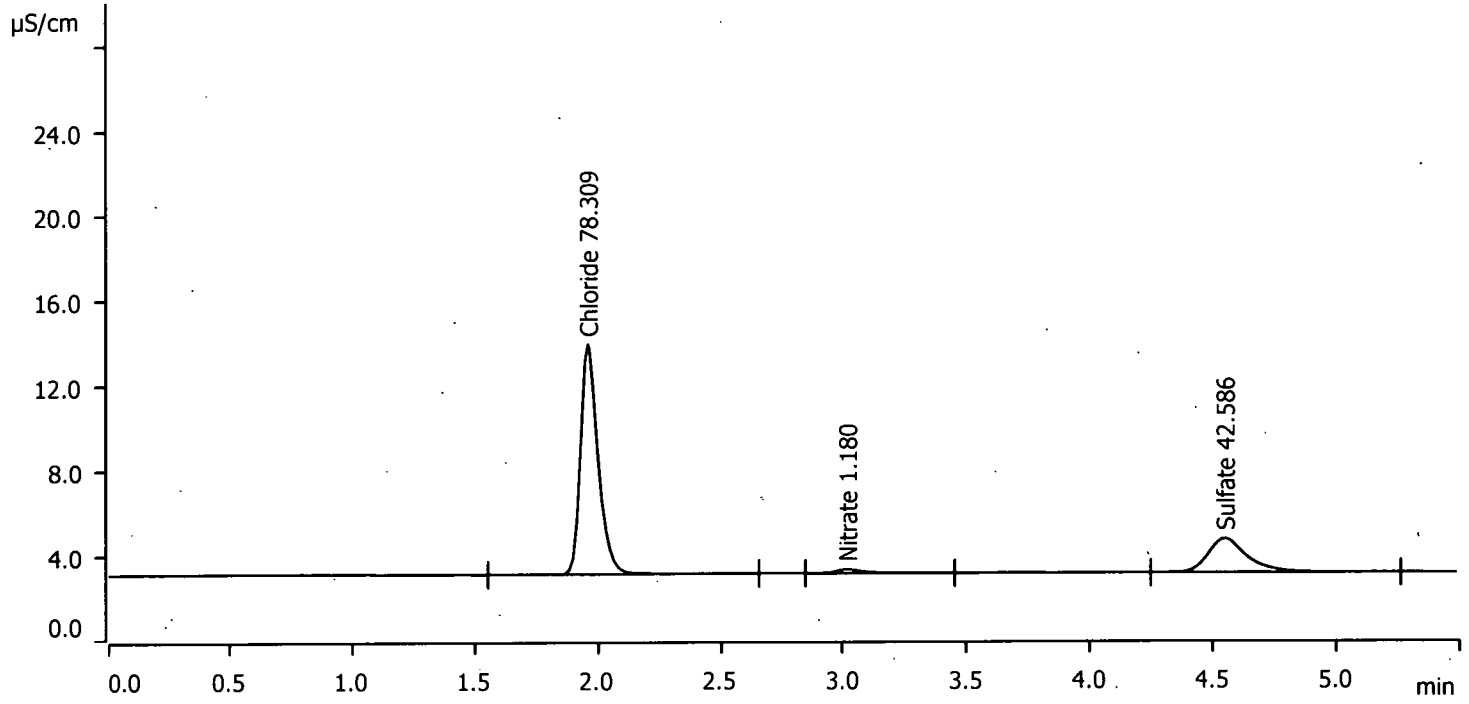
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.161	9.923	Fluoride	BB
2	1.96	0.827	73.319	Chloride	BB
3	2.31	0.221	9.766	Nitrite	BB
4	2.70	0.035	9.764	Bromide	BB
5	3.01	0.267	11.338	Nitrate	BB
6	4.54	0.294	42.068	Sulfate	BB

Sample data

Ident	R2401280-008
Sample type	Sample
Determination start	2024-02-26 20:39:32 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77061
Sample Position	55
Comment 1	300.0 & SO4 02/27/24
Comment 2	

Anions



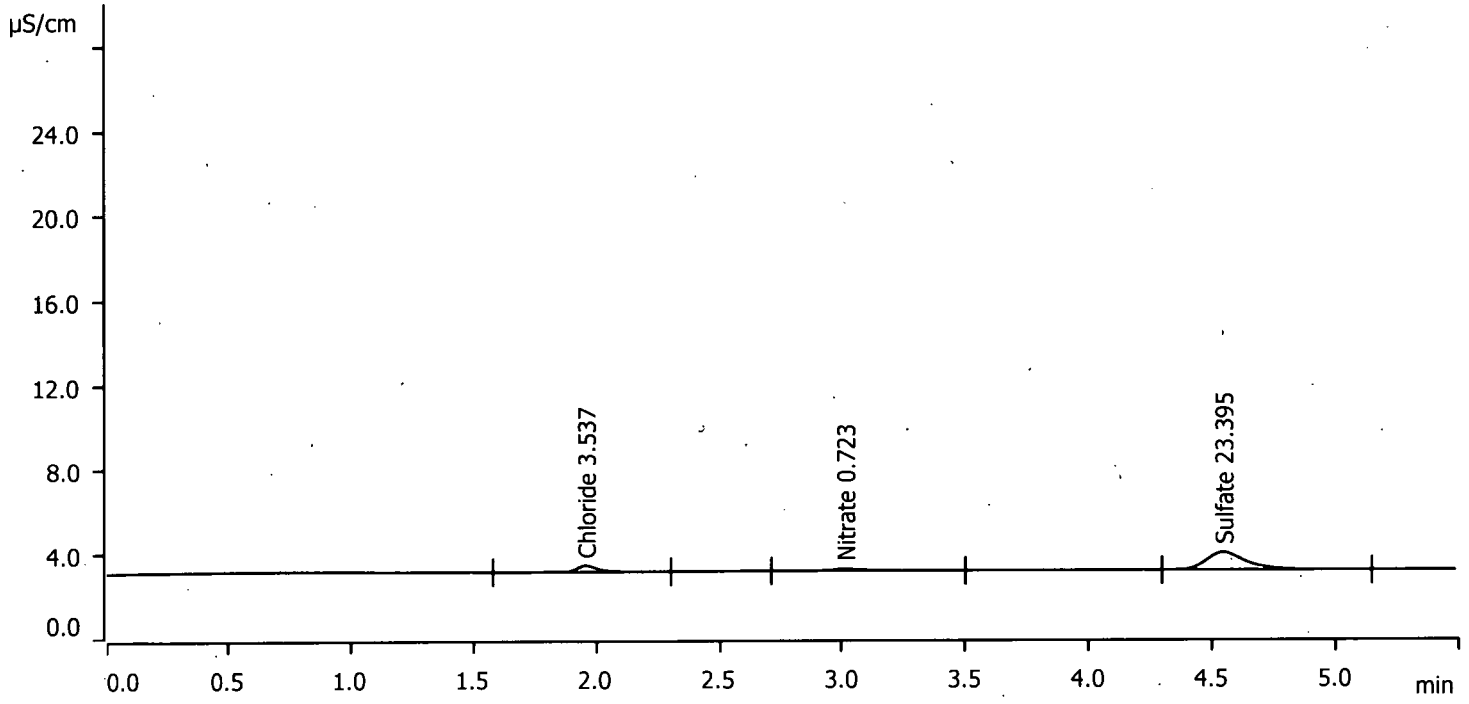
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.896	78.309	Chloride	BB
2	3.02	0.023	1.180	Nitrate	BB
3	4.55	0.298	42.586	Sulfate	BB

Sample data

Ident	R2401280-009
Sample type	Sample
Determination start	2024-02-26 20:46:26 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77062
Sample Position	56
Comment 1	300.0 & SO4 CK 2/27/24
Comment 2	

Anions



Anions

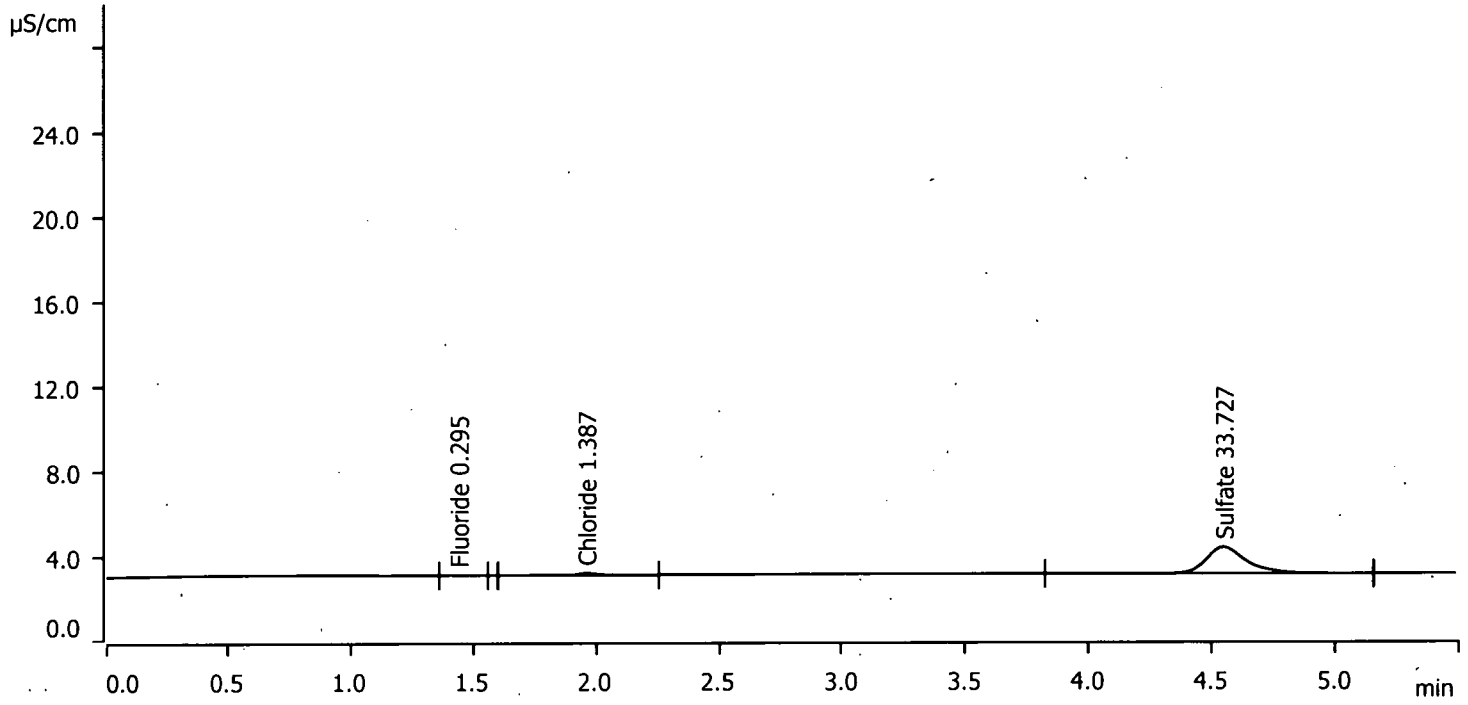
Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.96	0.029	3.537	Chloride	BB
2	3.01	0.013	0.723	Nitrate	BBI
3	4.54	0.158	23.395	Sulfate	BB

Sample data

Ident	R2401280-010
Sample type	Sample
Determination start	2024-02-26 20:53:21 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77063
Sample Position	57
Comment 1	300.0 SO4
Comment 2	

SO4 02/27/24

Anions



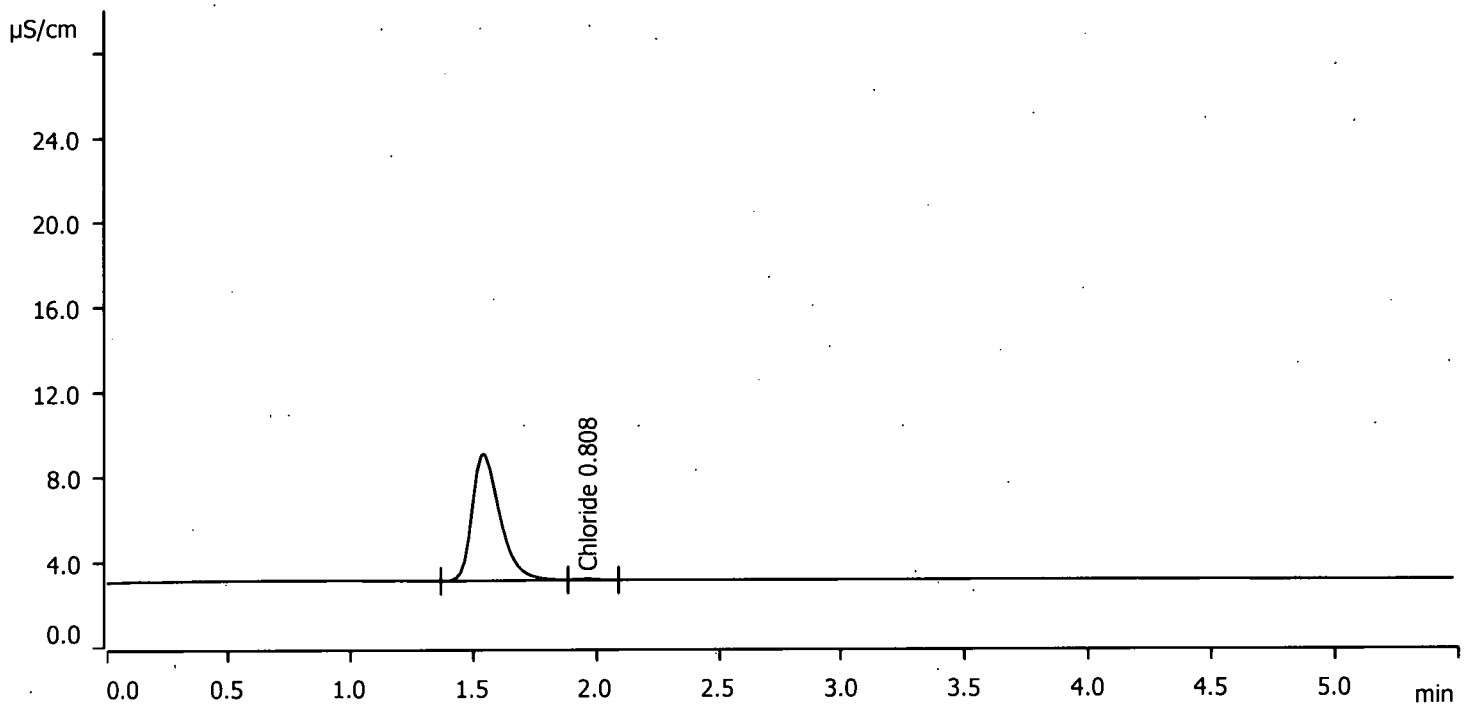
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.002	0.295	Fluoride	BB
2	1.96	0.010	1.387	Chloride	BB
3	4.55	0.232	33.727	Sulfate	BB

Sample data

Ident	R2401280-011
Sample type	Sample
Determination start	2024-02-26 21:00:15 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77064
Sample Position	58
Comment 1	300.0 ~~/~~ SO4
Comment 2	CE 2/27/24

Anions



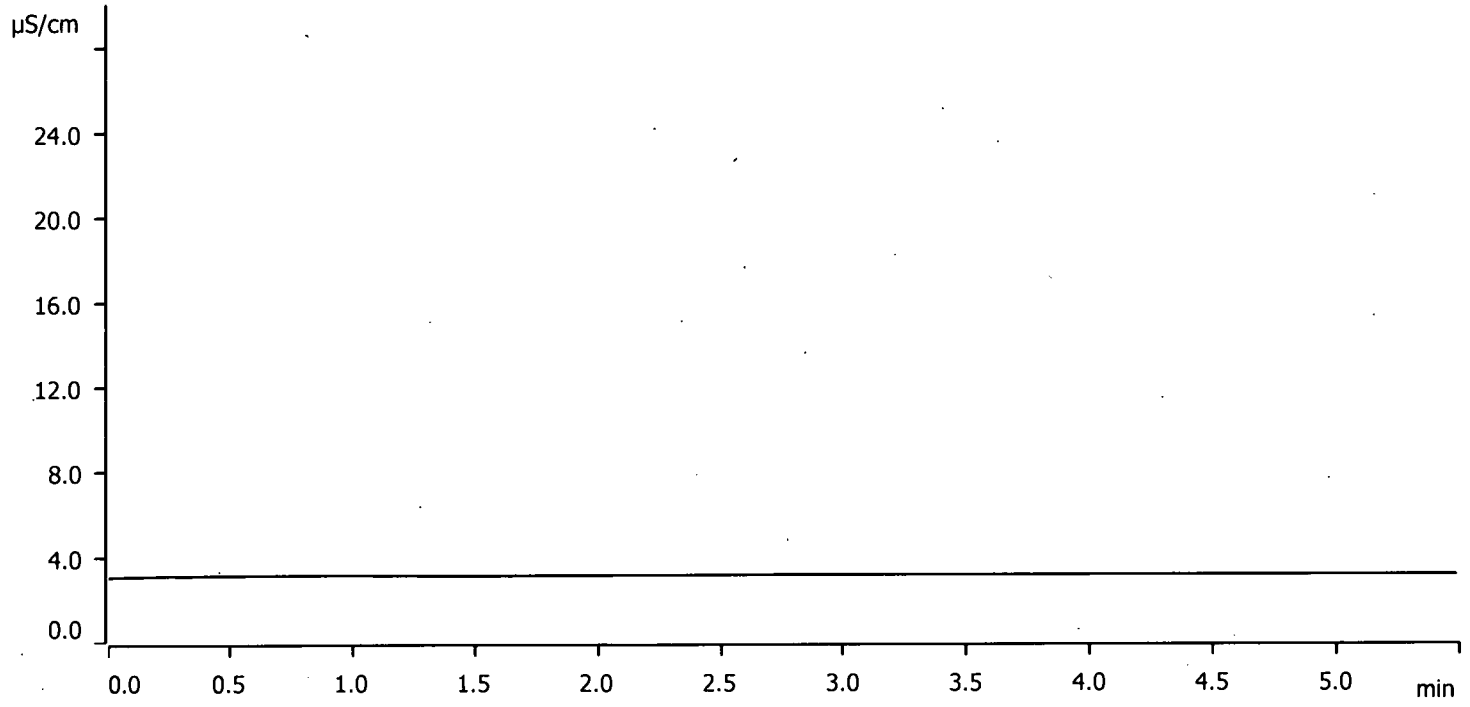
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.005	0.808	Chloride	BB

Sample data

Ident	R2401280-012
Sample type	Sample
Determination start	2024-02-26 21:07:09 UTC-5
Method	10-122723FAST
Dilution	10
Counter	77065
Sample Position	59
Comment 1	300.0 F SO4 02/27/24
Comment 2	

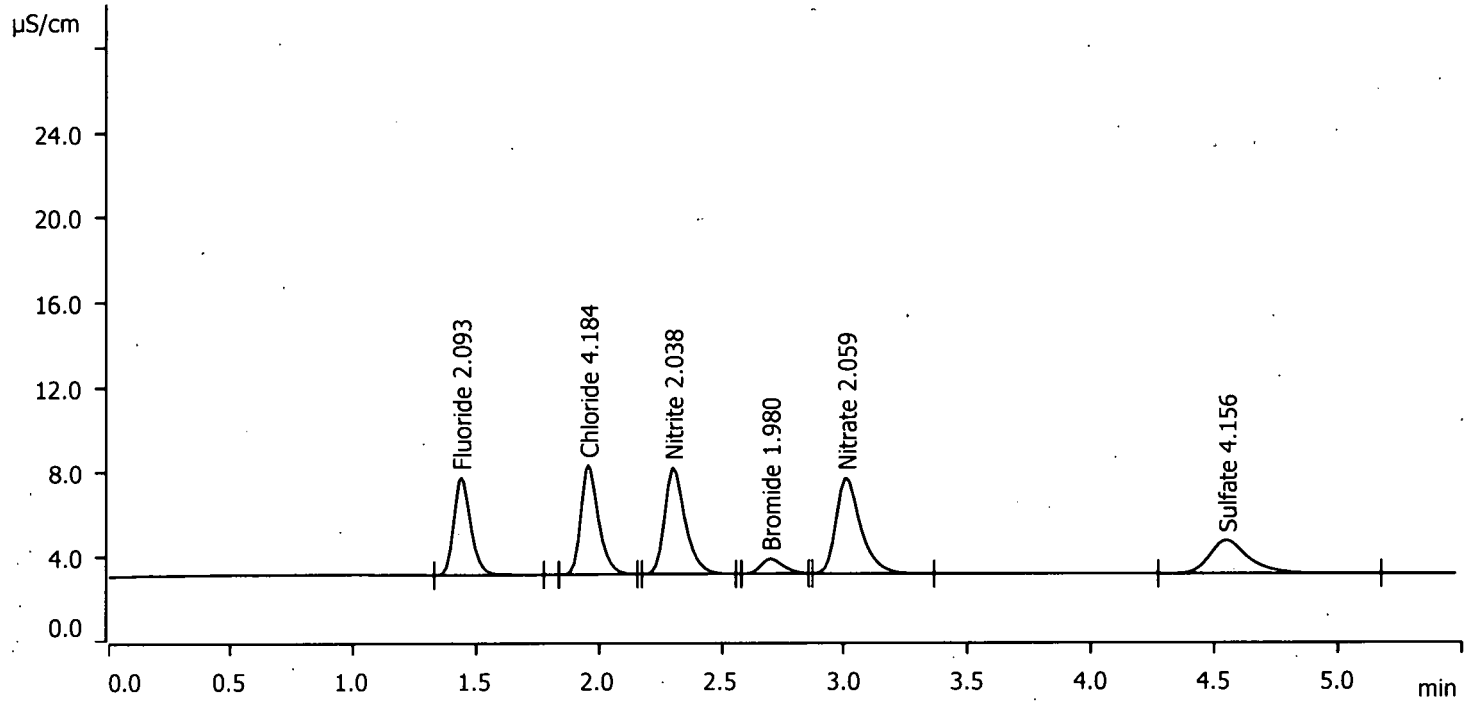
Anions



Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-02-26 21:14:00 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77066
Sample Position	60
Comment 1	300.0/9056A
Comment 2	

Anions



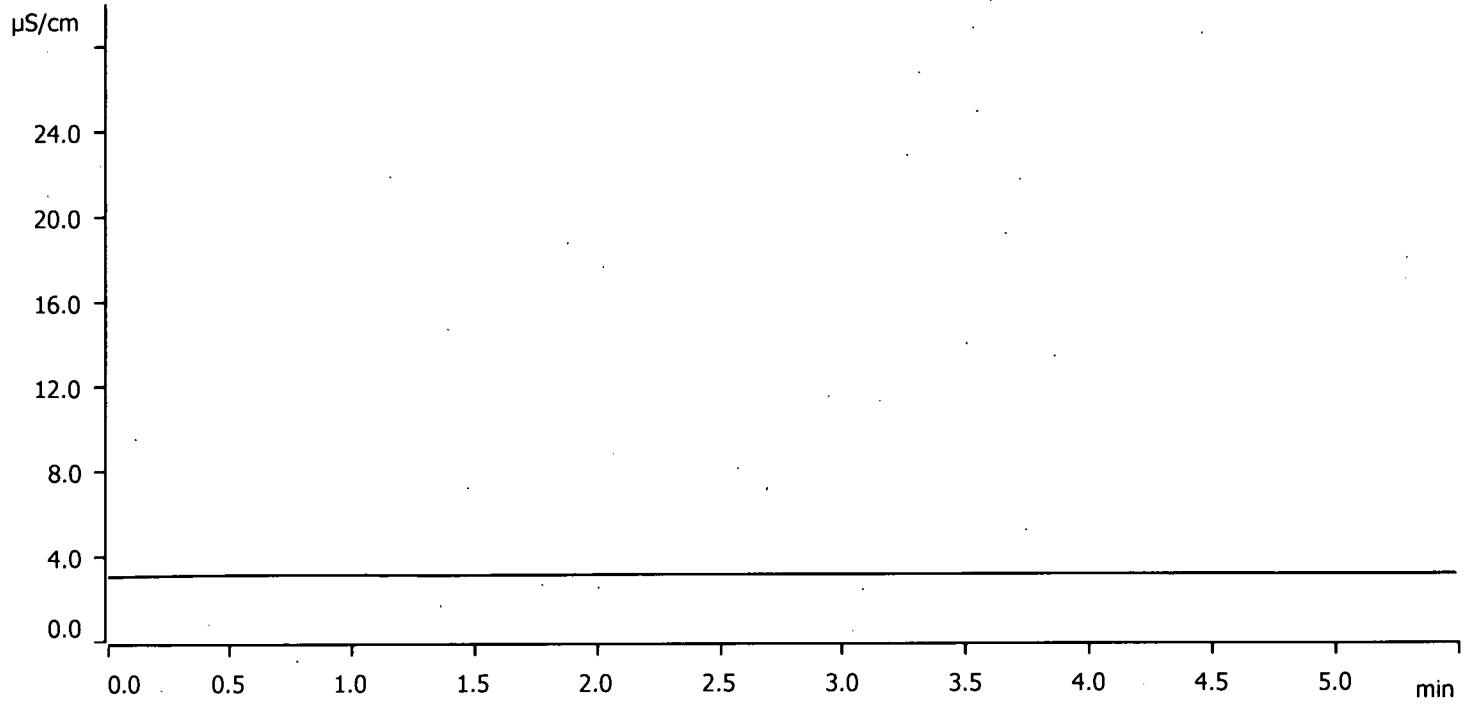
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.362	2.093	Fluoride	BB
2	1.96	0.429	4.184	Chloride	BB
3	2.31	0.491	2.038	Nitrite	BB
4	2.70	0.073	1.980	Bromide	BB
5	3.01	0.518	2.059	Nitrate	BB
6	4.55	0.290	4.156	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-02-26 21:20:53 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77067
Sample Position	61
Comment 1	300.0/9056A
Comment 2	

Anions



ALS Environmental

1575 Jefferson Road, Building 300, Suite 360, Rochester, New York 14623

Ion Chromatography Cover Sheet

Instrument: Metrohm IC 930 (IC#10)

Column: Dionex IonPac AS22-Fast (Installed 12/27/2023)

Curve Date: 12/27/23 **Loop size: 25 uL Loop**

Analyst: KW **Analysis Date:** 2/26/24

Balance ID for Soil Preparation: n/a

Is copy of LCS attached to run? (YES) / NO

Method Filename: 10-122723FAST

Standards Prep Dates & Log ID's:

Std Type	*Prep Date*	*Log ID*		*Std Type*	*Prep Date*	*Log ID*
Calibration Intermediate	11/30/2023	232528		Working Calibration Stds	12/27/2023	WC236013D
LCS / MS Intermediate	1/30/2024	233462		Working LCS/MS Standard	02/26/2024	WC236088A
ICV Intermediate	12/06/2023	232572		Working ICV Standard	12/27/2023	WC236025A
CCV Intermediate	02/21/2024	233800		Working CCV Standard	02/26/2024	WC236028D

Original Retention Times for this method are based on Standard 6 and are as follows:

Fluoride: 1.45	Bromide: 2.76
Chloride: 1.99	Nitrate: 3.08
Nitrite: 2.35	Sulfate: 4.67

Additional Comments: Column Serial Number: 231004231
Linear Range Verification (High Standard) Analyzed: 08/29/2023 – Due Every Six Months

ICV / CCV PREP

(A 1:1 dilution of the Reference Intermediate Stock is done daily.)

Analyte	ICV / CCV Intermediate Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst / Date Prepped	Lot ID	Exp. Date	Matrix H_2SO_4 / NaOH / DI	H_2SO_4 / NaOH Lot #
F	233800	4.00	5.0	10.0	2.00	2/21/24 KW	A	2/22/24	DI	—
Cl	exp: 8/8/24	8.00			4.00	2/22/24 KW	B	2/23/24	DI	—
NO_2		4.00			2.00	2/23/24 KW	C	2/24/24	DI	—
Br		4.00			2.00	2/26/24 KW	D	2/27/24	DI	—
NO_3		4.00			2.00		E			
OPO_4		4.00			2.00		F			
SO_4		8.00			4.00		G			
							H			
							I			
							J			
							K			
							L			
							M			
							N			
							O			
							P			
							Q			
							R			

LCS Prep

(Stocks delivered using volumetric glassware and brought to volume with DI. LCS expires after 7 days; if NO_2 is needed, LCS must be prepared daily.)

(MS prepared fresh daily using same volume of intermediate stock added to 100mLs sample. MS not prepared volumetrically.)

Analyte	Calibration Intermediate Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst / Date Prepped	Lot ID	Exp. Date	Matrix H_2SO_4 / NaOH / DI	H_2SO_4 / NaOH Lot #
F	233462	50	2.0	200	1.0	HW 2/26/24	A	3/4/24	DI	–
Cl	exp 3/31/24	100			2.0		B			
NO_2		50			1.0		C			
Br		50			1.0		D			
NO_3		50			1.0		E			
OPO_4		50			1.0		F			
SO_4		100			2.0		G			
							H			
							I			
							J			
							K			
							L			
							M			
							N			
							O			
							P			
							Q			
							R			

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 833597 **Method/Testcode:** 300.0/SO4

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
?Q2402168-01	Sulfate	CCV		Water	4.15 mg/L	10 mL	4.15 mg/L	1					2/28/24 09:24	N	IV
?Q2402168-02	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/28/24 09:31	N	IV
?Q2402168-03	Sulfate	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/28/24 09:31	N	IV
?Q2402168-04	Sulfate	LCS		Water	2.05 mg/L	10 mL	2.05 mg/L	1	0.04	0.20	103		2/28/24 09:38	N	IV
?2401398-003	Sulfate	N/A		Water	462.09 mg/L	10 mL	462 mg/L	50	2	10			2/28/24 09:47	N	IV
?2401280-017	Sulfate	N/A		Water	369.99 mg/L	10 mL	370 mg/L	40	1.6	8.0			2/28/24 10:14	N	IV
?2401280-018	Sulfate	N/A		Water	247.93 mg/L	10 mL	248 mg/L	40	1.6	8.0			2/28/24 10:21	Y	IV
?Q2402168-07	Sulfate	MS	R2401280-018	Water	321.28 mg/L	10 mL	321 mg/L	40	1.6	8.0	92		2/28/24 10:28	N	IV
?Q2402168-08	Sulfate	DMS	R2401280-018	Water	321.64 mg/L	10 mL	322 mg/L	40	1.6	8.0	92	<1	2/28/24 10:35	N	IV
?Q2402168-05	Sulfate	CCV		Water	4.07 mg/L	10 mL	4.07 mg/L	1					2/28/24 10:42	N	IV
?Q2402168-06	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			2/28/24 10:49	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Determination overview IC10 cupsettes: Athena / Bottom 300.0/9056A 2/28/24 KL

	Method name	Determination start	Position	Ident	Dilution	Info 1	Info 2
1	10-122723FAST	2024-02-28 09:24:49 UTC-5	1	CCV	1	300.0/9056A	
2	10-122723FAST	2024-02-28 09:31:54 UTC-5	2	CCB	1	300.0/9056A	
3	10-122723FAST	2024-02-28 09:38:45 UTC-5	3	LCS	1	300.0/9056A	
4	10-122723FAST	2024-02-28 09:47:15 UTC-5	4	R2401398-003	50	300.0 S	
5	10-122723FAST	2024-02-28 09:54:08 UTC-5	5	R2401398-003 MS DNR	50	300.0 S	
6	10-122723FAST	2024-02-28 10:01:01 UTC-5	6	R2401398-003 MSD DNR	50	300.0 S	
7	10-122723FAST	2024-02-28 10:07:56 UTC-5	7	R2401473-001 DNR	200	300.0 C	
8	10-122723FAST	2024-02-28 10:14:50 UTC-5	8	R2401280-017	40	300.0 S	
9	10-122723FAST	2024-02-28 10:21:43 UTC-5	9	R2401280-018	40	300.0 S	
10	10-122723FAST	2024-02-28 10:28:36 UTC-5	10	R2401280-018 MS!	40	300.0 S	
11	10-122723FAST	2024-02-28 10:35:31 UTC-5	11	R2401280-018 MSD!	40	300.0 S	
12	10-122723FAST	2024-02-28 10:42:37 UTC-5	12	CCV	1	300.0/9056A	
13	10-122723FAST	2024-02-28 10:49:31 UTC-5	13	CCB	1	300.0/9056A	

Sample Dilutions

Final Volume: 8-10mL - IC#3,10

Analyst: KW
Instrument: IC10

Date 2/28/24
Analysis 300.0/4056.1

Common Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor
1/2	DI	4.5	4.5	1/2												
1/3	DI	3	6	1/3												
1/4	DI	2	6	1/4												
1/5	DI	2	8	1/5												
1/10	DI	1	9	1/10												
1/20	DI	3	3	1/2	1	9	1/20									
1/30	DI	3	6	1/3	1	9	1/30									
1/40	DI	1	3	1/4	1	9	1/40									
1/50	DI	1	4	1/5	1	9	1/50									
1/100	DI	1	9	1/10	1	9	1/100									
1/200	DI	3	3	1/2	1	9	1/20	1	9	1/200						
1/300	DI	3	6	1/3	1	9	1/30	1	9	1/300						
1/400	DI	1	3	1/4	1	9	1/40	1	9	1/400						
1/500	DI	1	4	1/5	1	9	1/50	1	9	1/500						
1/1000	DI	1	9	1/10	1	9	1/100	1	9	1/1000						
1/2000	DI	3	3	1/2	1	9	1/20	1	9	1/200	1	9	1/2000			
1/3000	DI	3	6	1/3	1	9	1/30	1	9	1/300	1	9	1/3000			
1/4000	DI	1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000			
1/10000	DI	1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000			
1/20000	DI	1	1	1/2	1	9	1/20	1	9	1/200	1	9	1/2000	1	9	1/20000
1/40000	DI	1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000	1	9	1/40000
1/100000	DI	1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000	1	9	1/100000

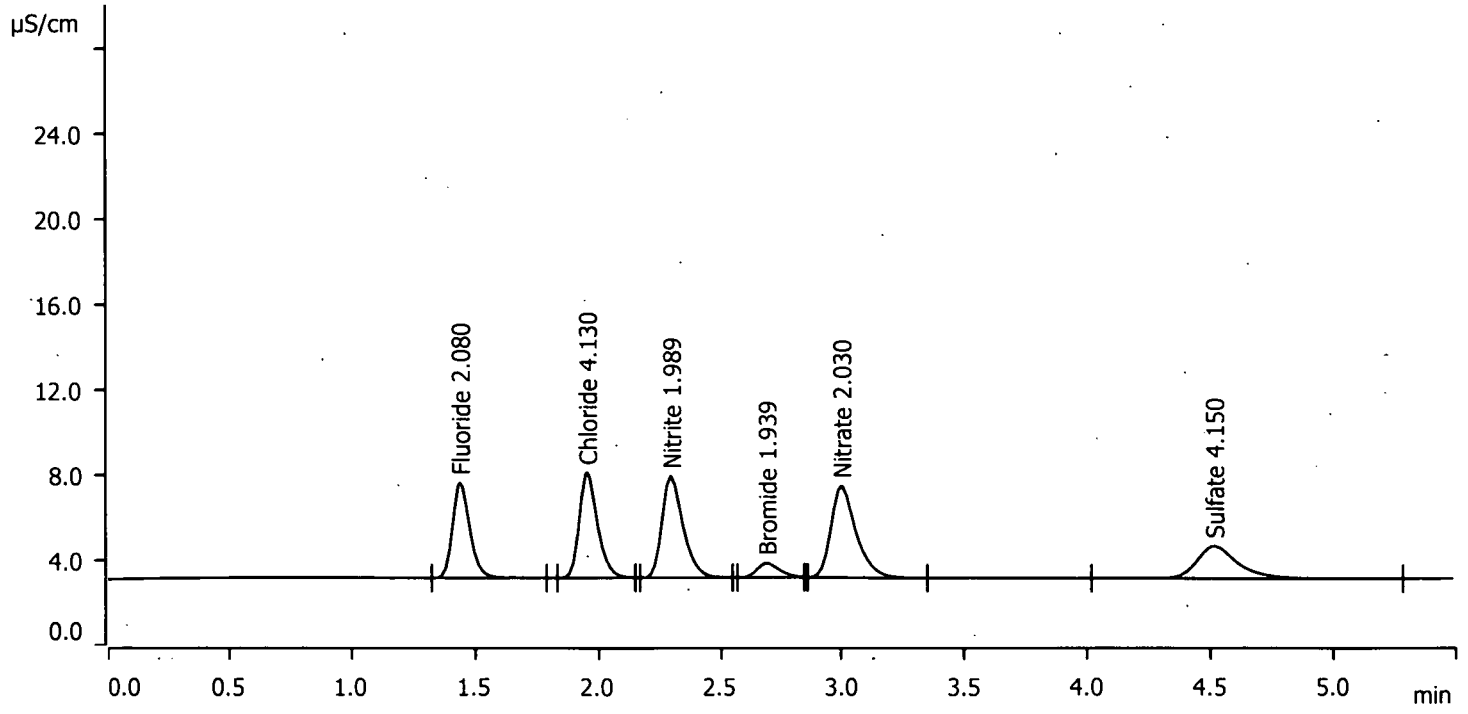
Special Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-02-28 09:24:49 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77224
Sample Position	1
Comment 1	300.0/9056A
Comment 2	

Anions



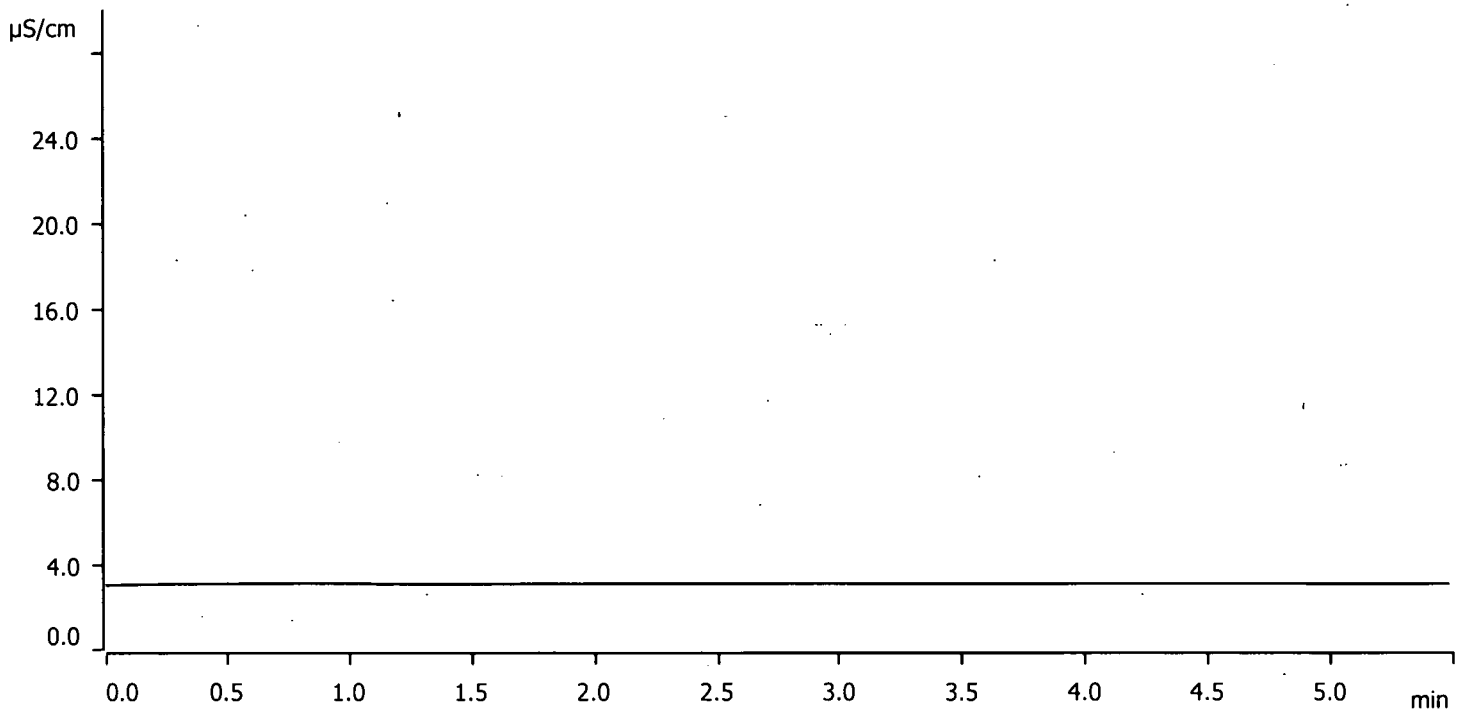
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.360	2.080	Fluoride	BB
2	1.96	0.423	4.130	Chloride	BB
3	2.30	0.478	1.989	Nitrite	BB
4	2.69	0.072	1.939	Bromide	BB
5	3.00	0.510	2.030	Nitrate	BB
6	4.51	0.290	4.150	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-02-28 09:31:54 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77225
Sample Position	2
Comment 1	300.0/9056A
Comment 2	

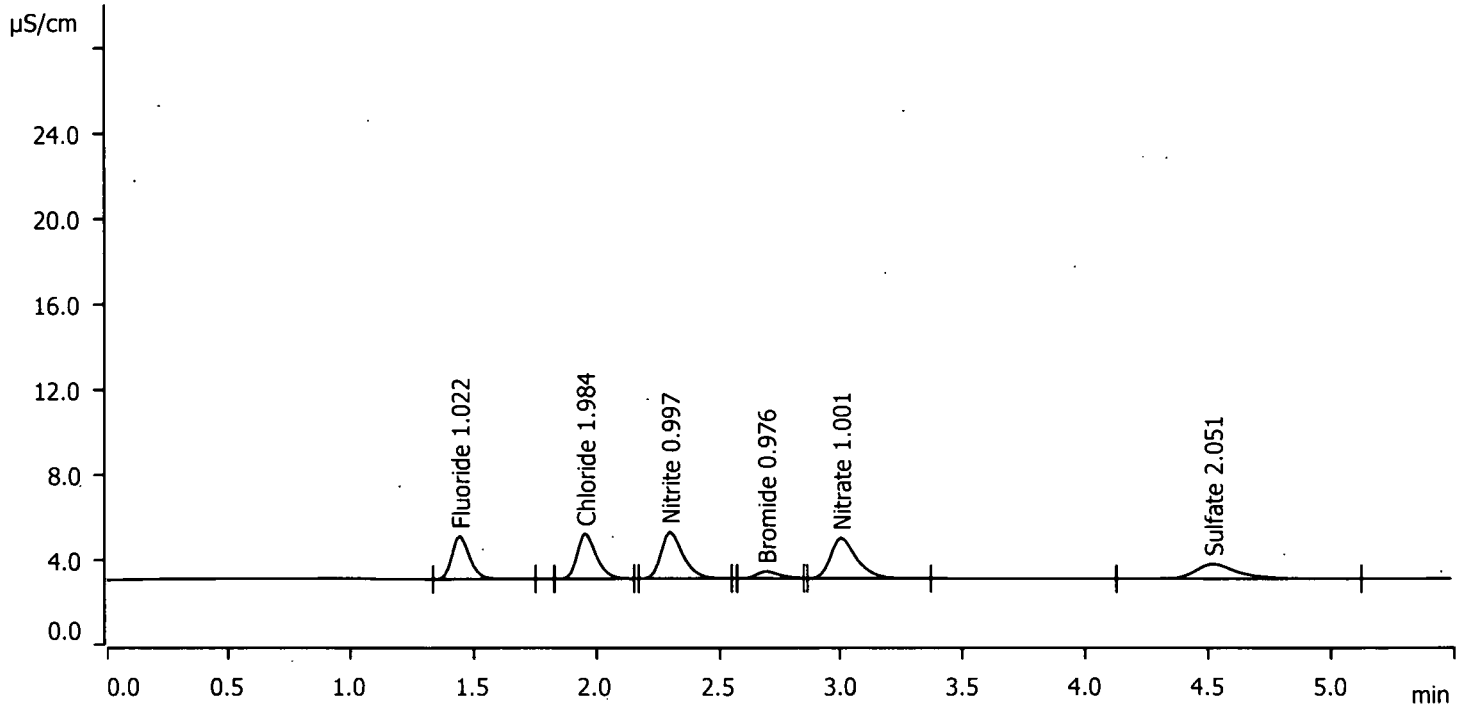
Anions



Sample data

Ident	LCS
Sample type	Check standard 2
Determination start	2024-02-28 09:38:45 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77226
Sample Position	3
Comment 1	300.0/9056A
Comment 2	

Anions



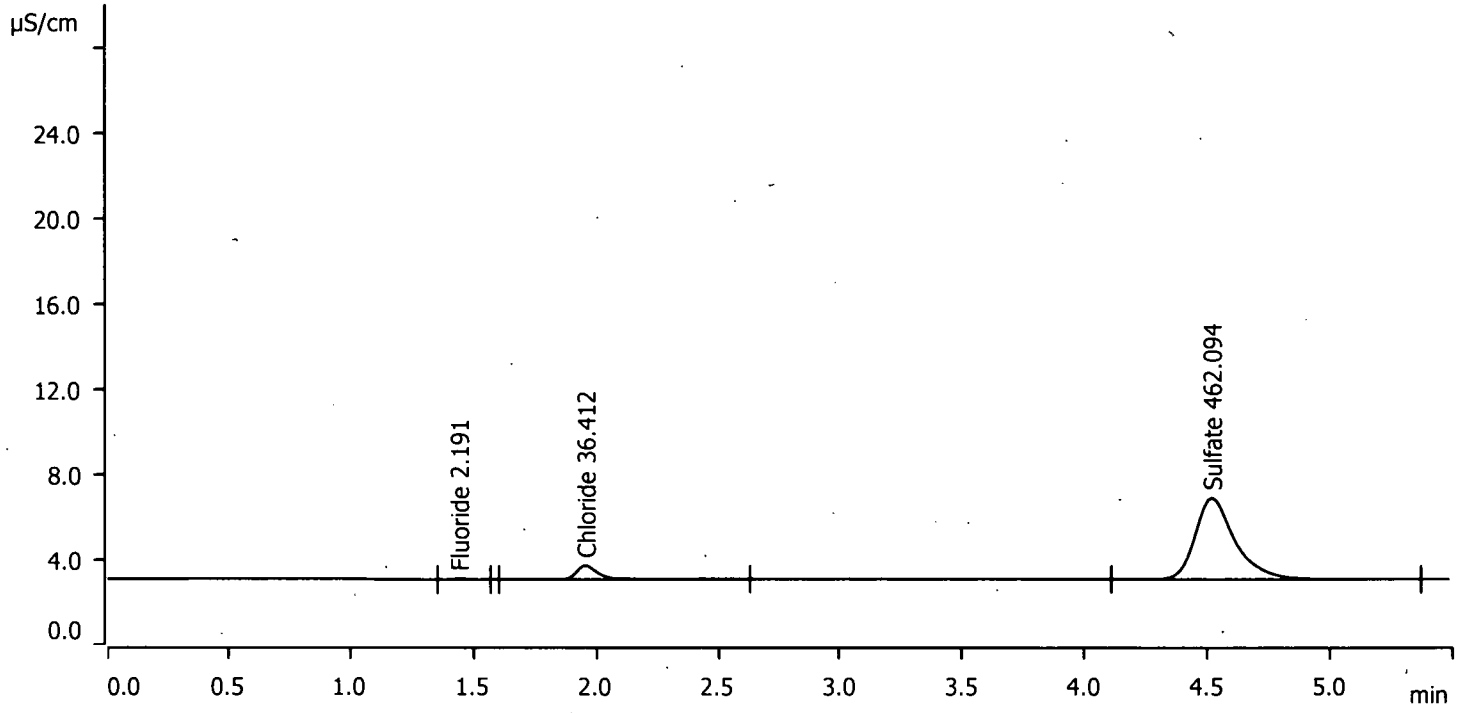
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.167	1.022	Fluoride	BB
2	1.96	0.188	1.984	Chloride	BB
3	2.30	0.226	0.997	Nitrite	BB
4	2.69	0.035	0.976	Bromide	BB
5	3.00	0.233	1.001	Nitrate	BB
6	4.52	0.137	2.051	Sulfate	BB

Sample data

Ident	R2401398-003
Sample type	Sample
Determination start	2024-02-28 09:47:15 UTC-5
Method	10-122723FAST
Dilution	50
Counter	77227
Sample Position	4
Comment 1	300.0 S
Comment 2	

Anions



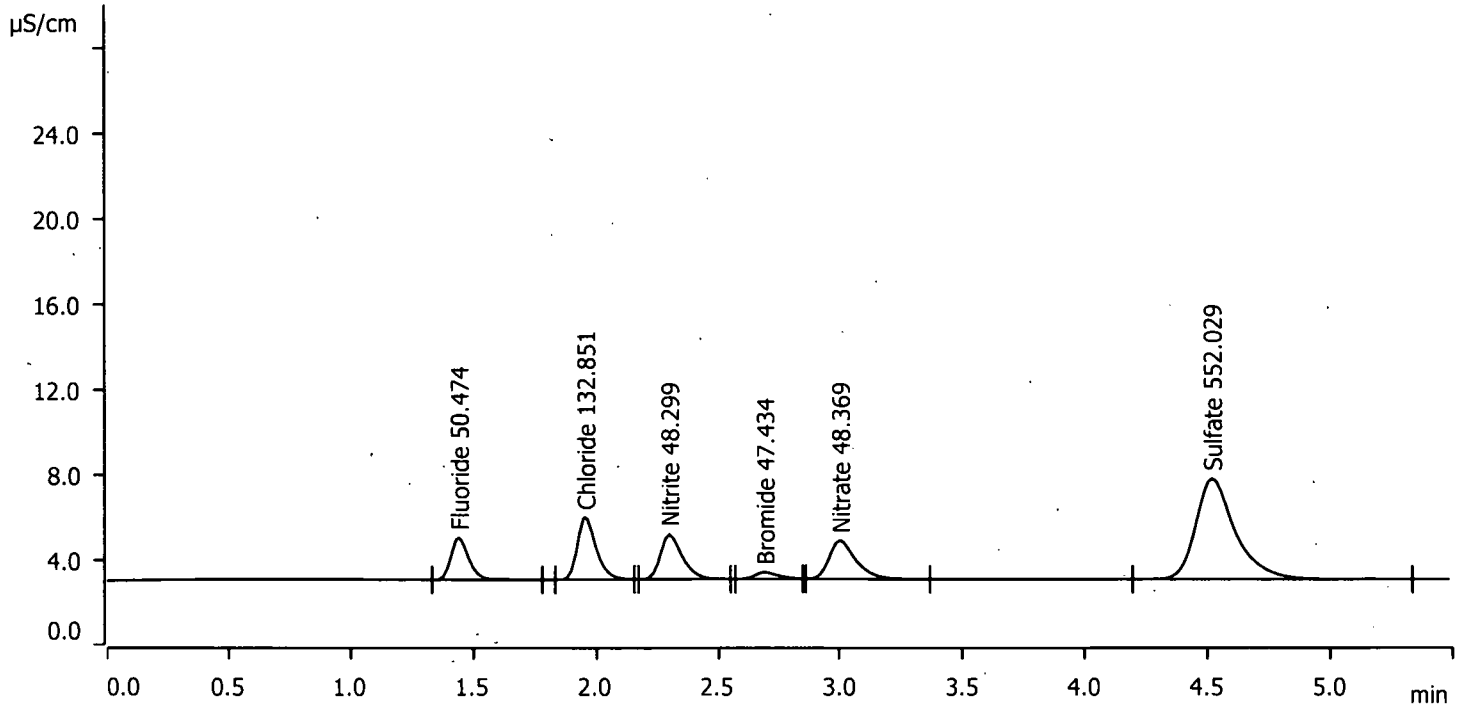
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.004	2.191	Fluoride	BB
2	1.96	0.064	36.412	Chloride	BB
3	4.52	0.711	462.094	Sulfate	BB

Sample data

Ident	R2401398-003 MS DNR
Sample type	Sample
Determination start	2024-02-28 09:54:08 UTC-5
Method	10-122723FAST
Dilution	50
Counter	77228
Sample Position	5
Comment 1	300.0 S
Comment 2	

Anions



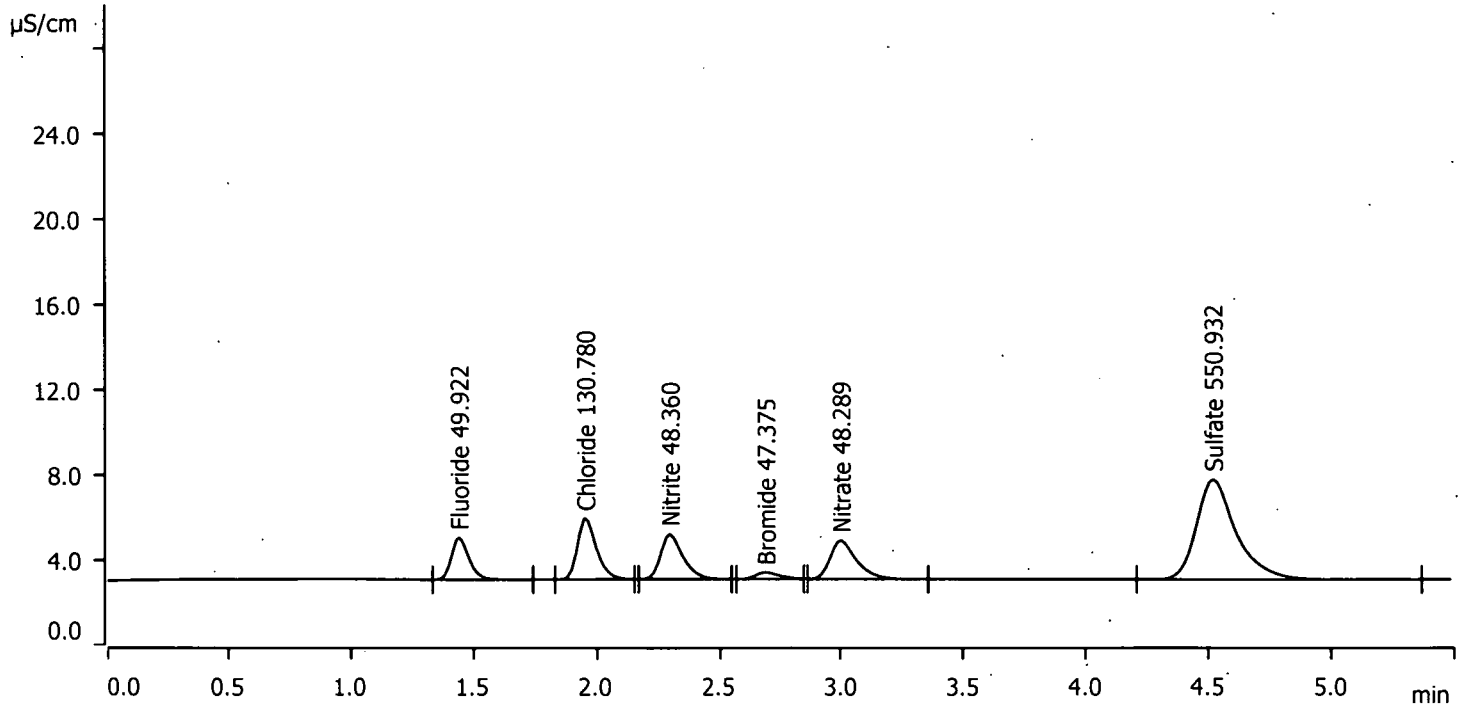
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.164	50.474	Fluoride	BB
2	1.96	0.259	132.851	Chloride	BB
3	2.30	0.219	48.299	Nitrite	BB
4	2.69	0.034	47.434	Bromide	BB
5	3.00	0.225	48.369	Nitrate	BB
6	4.52	0.878	552.029	Sulfate	BB

Sample data

Ident	R2401398-003 MSD DNR
Sample type	Sample
Determination start	2024-02-28 10:01:01 UTC-5
Method	10-122723FAST
Dilution	50
Counter	77229
Sample Position	6
Comment 1	300.0 S
Comment 2	

Anions



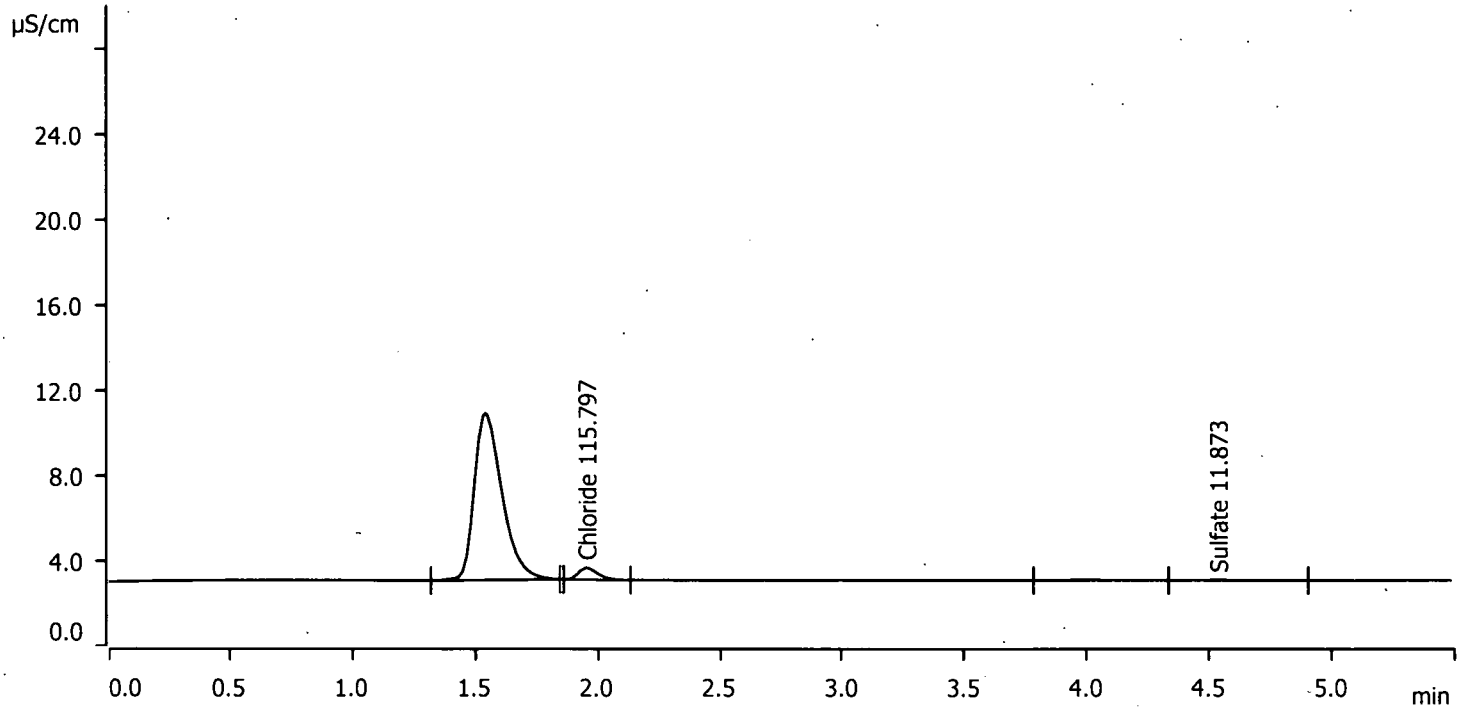
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.162	49.922	Fluoride	BB
2	1.96	0.254	130.780	Chloride	BB
3	2.30	0.219	48.360	Nitrite	BB
4	2.69	0.034	47.375	Bromide	BB
5	3.00	0.225	48.289	Nitrate	BB
6	4.52	0.876	550.932	Sulfate	BB

Sample data

Ident	R2401473-001 DNR
Sample type	Sample
Determination start	2024-02-28 10:07:56 UTC-5
Method	10-122723FAST
Dilution	200
Counter	77230
Sample Position	7
Comment 1	300.0 C
Comment 2	

Anions



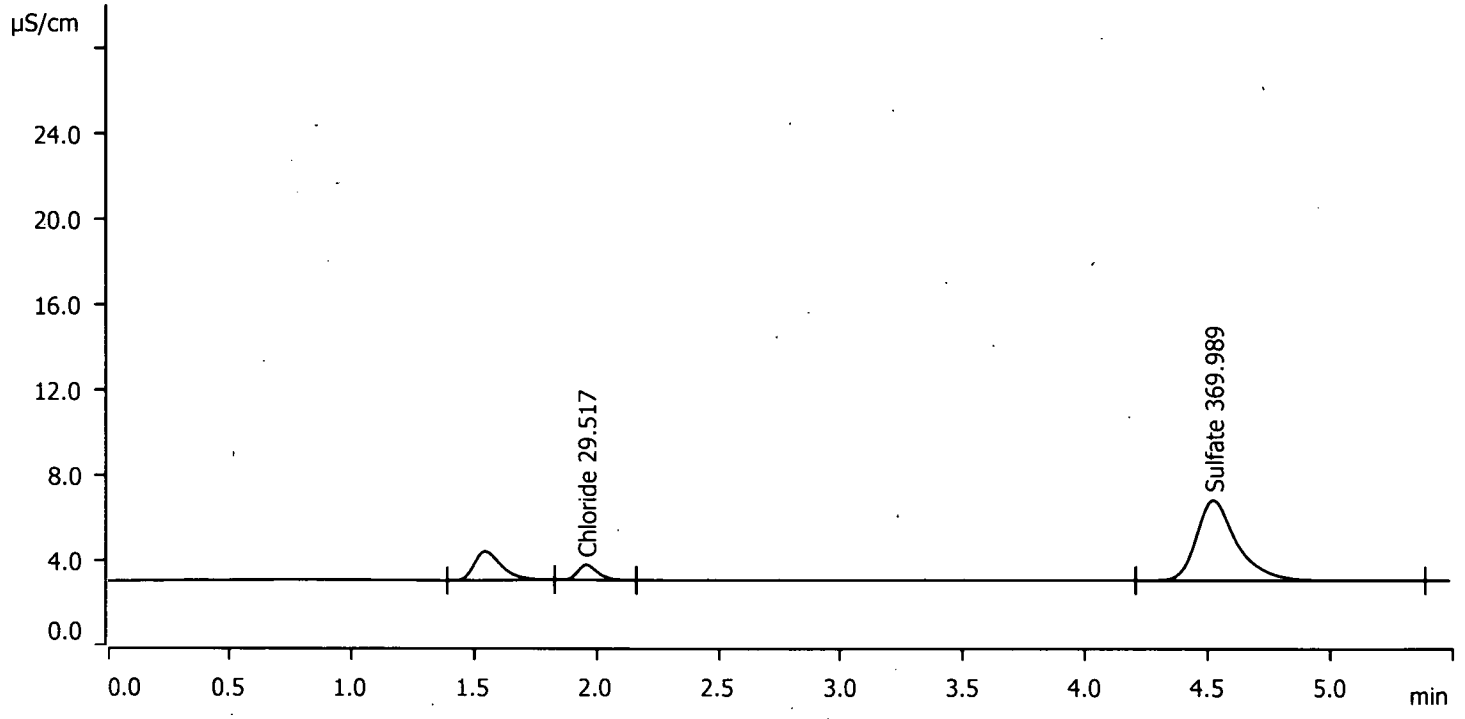
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.050	115.797	Chloride	BB
4	4.53	0.004	11.873	Sulfate	BB

Sample data

Ident	R2401280-017
Sample type	Sample
Determination start	2024-02-28 10:14:50 UTC-5
Method	10-122723FAST
Dilution	40
Counter	77231
Sample Position	8
Comment 1	300.0 S
Comment 2	

Anions



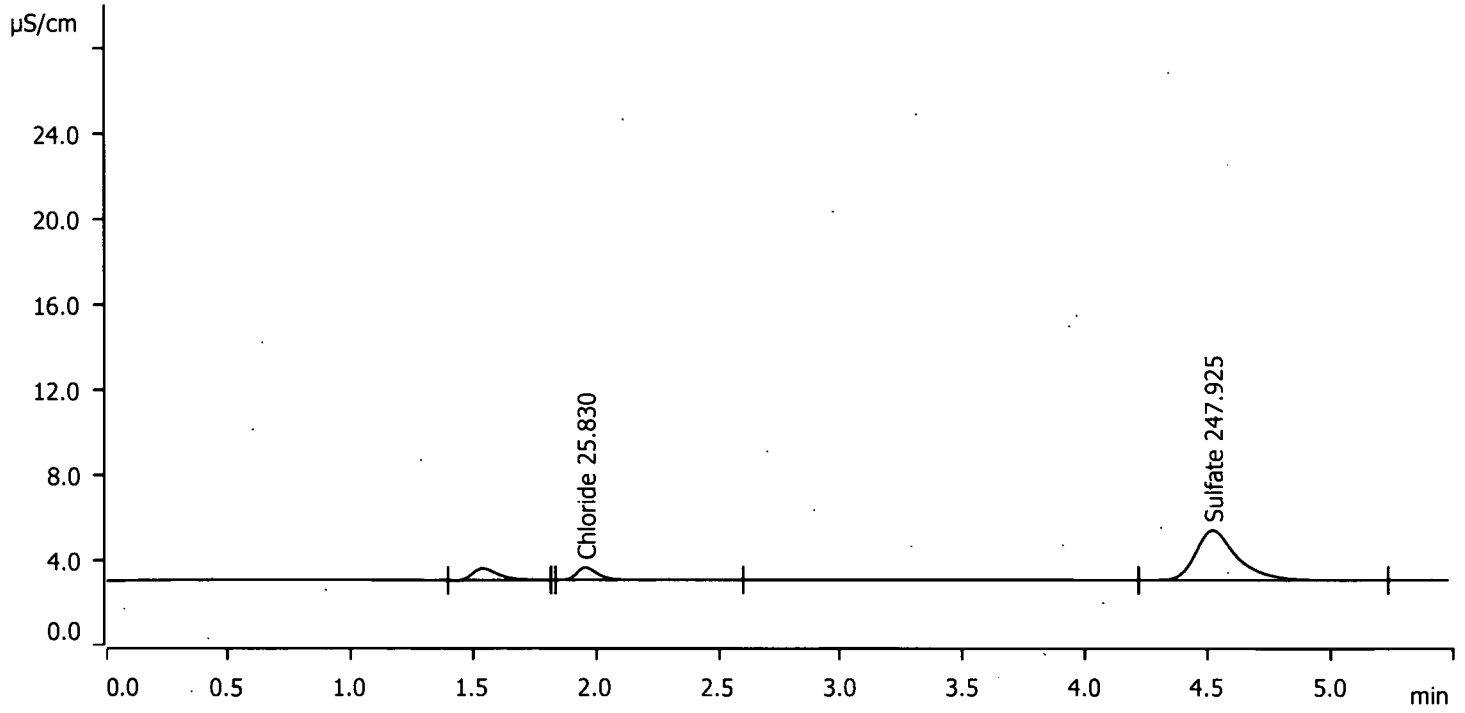
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.065	29.517	Chloride	BB
3	4.52	0.712	369.989	Sulfate	BB

Sample data

Ident	R2401280-018
Sample type	Sample
Determination start	2024-02-28 10:21:43 UTC-5
Method	10-122723FAST
Dilution	40
Counter	77232
Sample Position	9
Comment 1	300.0 S
Comment 2	

Anions



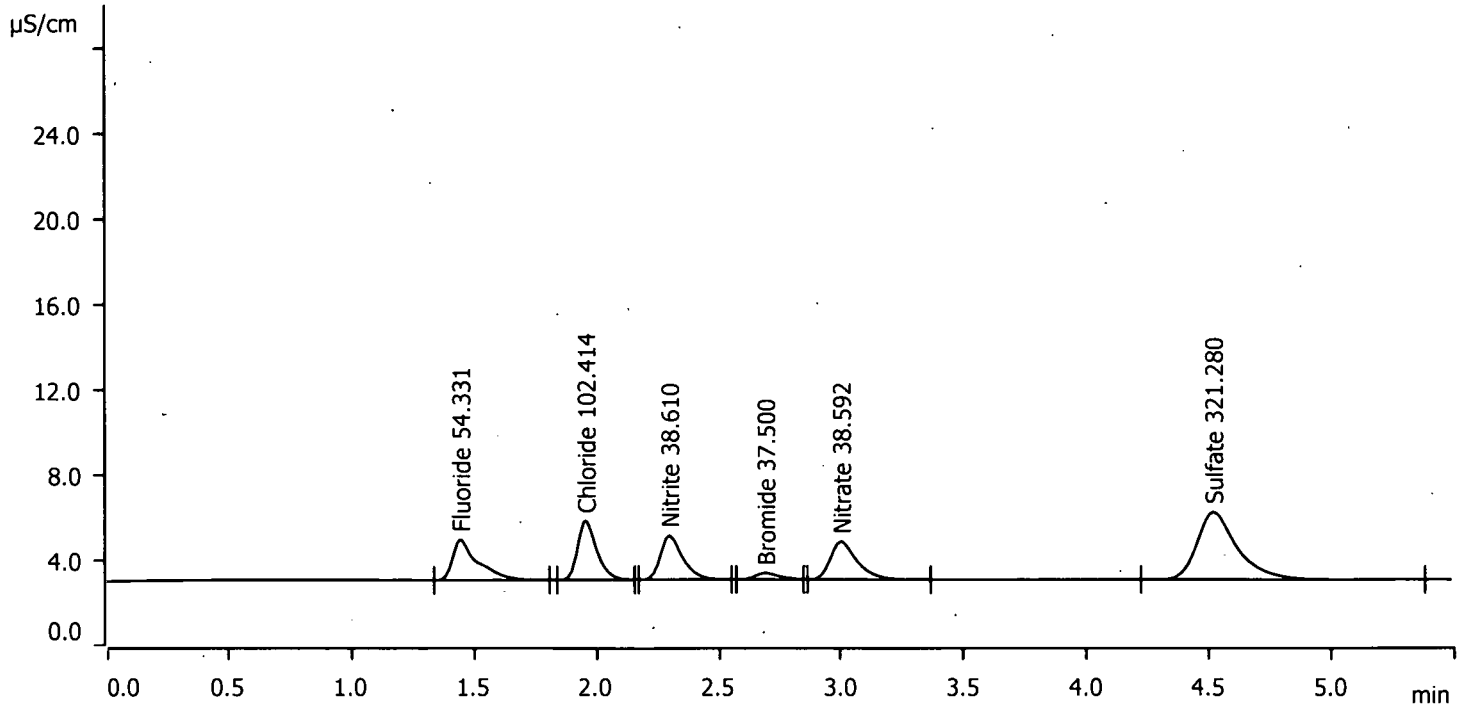
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.057	25.830	Chloride	BB
3	4.52	0.451	247.925	Sulfate	BB

Sample data

Ident	R2401280-018 MS!
Sample type	Sample
Determination start	2024-02-28 10:28:36 UTC-5
Method	10-122723FAST
Dilution	40
Counter	77233
Sample Position	10
Comment 1	300.0 S
Comment 2	

Anions



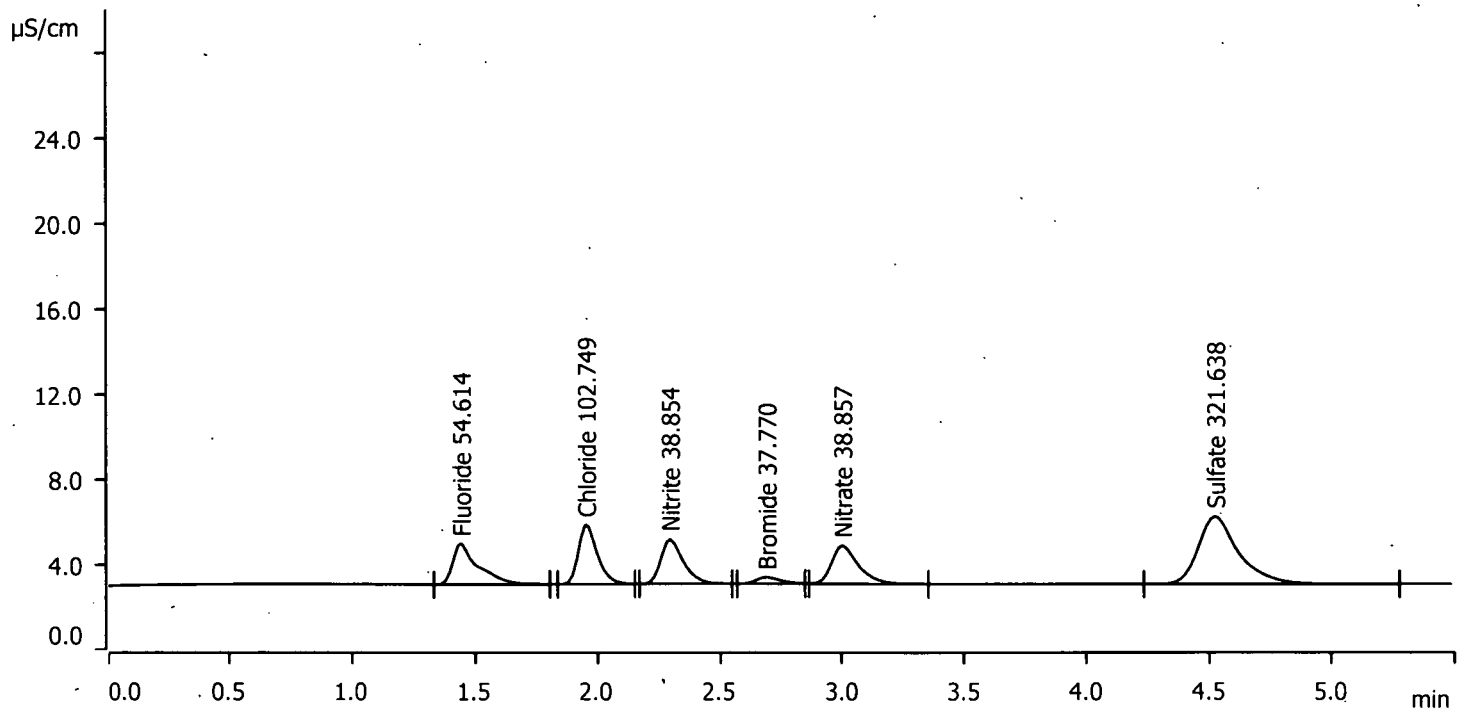
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.226	54.331	Fluoride	BBI
2	1.96	0.248	102.414	Chloride	BB
3	2.30	0.218	38.610	Nitrite	BB
4	2.69	0.034	37.500	Bromide	BB
5	3.00	0.224	38.592	Nitrate	BB
6	4.52	0.605	321.280	Sulfate	BB

Sample data

Ident	R2401280-018 MSD!
Sample type	Sample
Determination start	2024-02-28 10:35:31 UTC-5
Method	10-122723FAST
Dilution	40
Counter	77234
Sample Position	11
Comment 1	300.0 S
Comment 2	

Anions



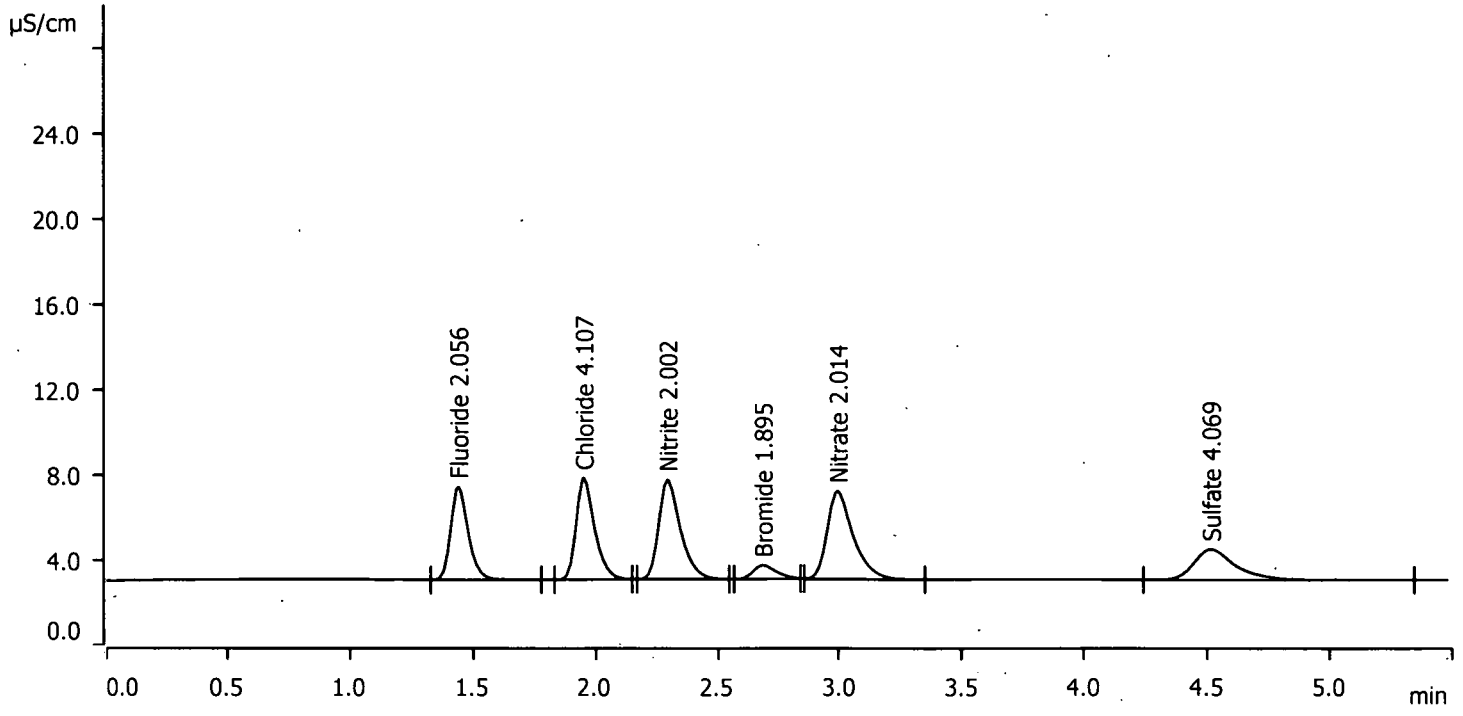
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.227	54.614	Fluoride	BB
2	1.96	0.249	102.749	Chloride	BB
3	2.30	0.220	38.854	Nitrite	BB
4	2.69	0.034	37.770	Bromide	BB
5	3.00	0.226	38.857	Nitrate	BB
6	4.52	0.605	321.638	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-02-28 10:42:37 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77235
Sample Position	12
Comment 1	300.0/9056A
Comment 2	

Anions



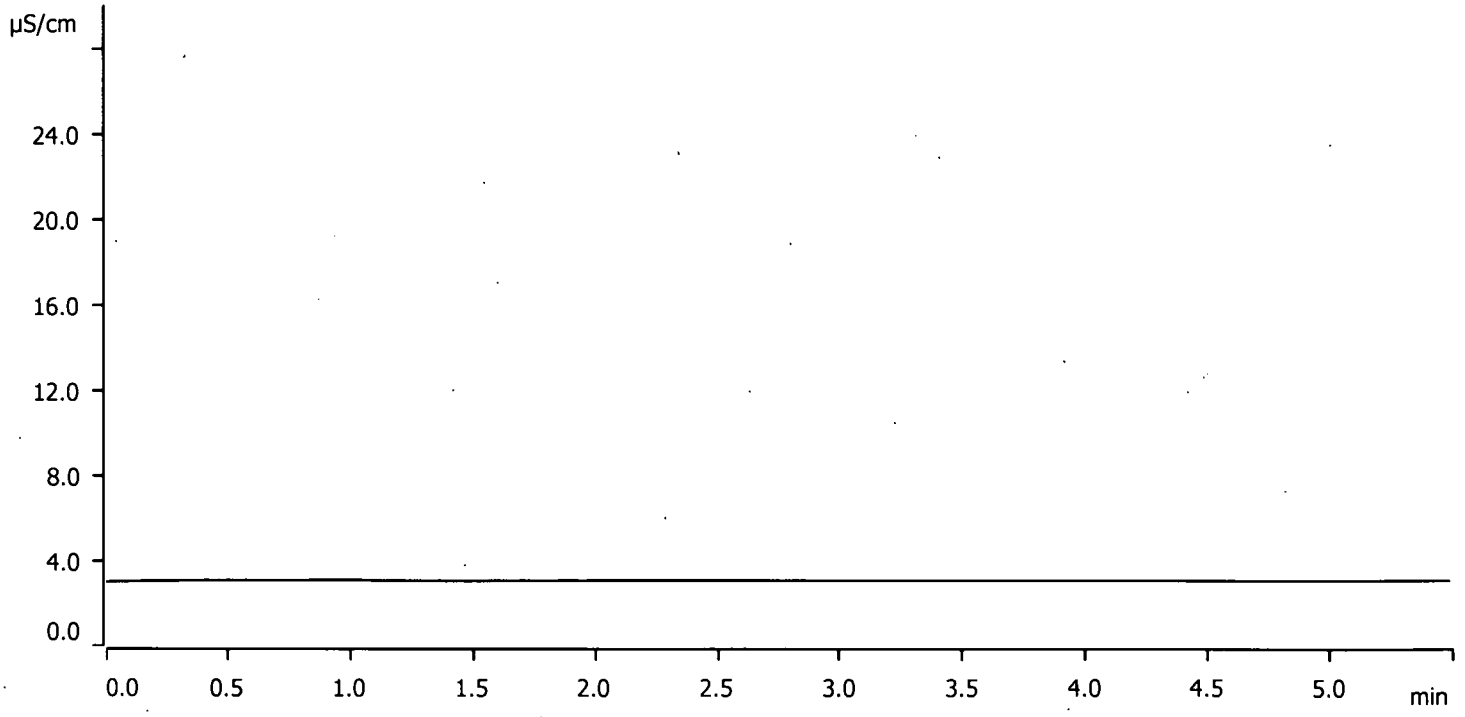
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.355	2.056	Fluoride	BB
2	1.96	0.420	4.107	Chloride	BB
3	2.30	0.482	2.002	Nitrite	BB
4	2.69	0.070	1.895	Bromide	BB
5	2.99	0.506	2.014	Nitrate	BB
6	4.51	0.284	4.069	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-02-28 10:49:31 UTC-5
Method	10-122723FAST
Dilution	1
Counter	77236
Sample Position	13
Comment 1	300.0/9056A
Comment 2	

Anions



ALS Environmental

1575 Jefferson Road, Building 300, Suite 360, Rochester, New York 14623

Ion Chromatography Cover Sheet

Instrument: **Metrohm IC 930 (IC#10)**

Column: **Dionex IonPac AS22-Fast (Installed 12/27/2023)**

Curve Date: **12/27/23** **Loop size: 25 uL Loop**

Analyst: KW **Analysis Date:** 2/28/24

Balance ID for Soil Preparation: NA

Is copy of LCS attached to run? (YES) / NO

Method Filename: 10-122723FAST

Standards Prep Dates & Log ID's:

Std Type	*Prep Date*	*Log ID*		*Std Type*	*Prep Date*	*Log ID*
Calibration Intermediate	11/30/2023	232528		Working Calibration Stds	12/27/2023	WC236013D
LCS / MS Intermediate	1/30/2024	233462		Working LCS/MS Standard	02/28/2024	WC236088C
ICV Intermediate	12/06/2023	232572		Working ICV Standard	12/27/2023	WC236025A
CCV Intermediate	02/21/2024	233800		Working CCV Standard	02/28/2024	WC236028F

Original Retention Times for this method are based on Standard 6 and are as follows:

Fluoride: 1.45	Bromide: 2.76
Chloride: 1.99	Nitrate: 3.08
Nitrite: 2.35	Sulfate: 4.67

Additional Comments: Column Serial Number: 231004231
Linear Range Verification (High Standard) Analyzed: 08/29/2023 – Due Every Six Months

ICV / CCV PREP

(A 1:1 dilution of the Reference Intermediate Stock is done daily.)

Analyte	ICV / CCV Intermediate Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst / Date Prepped	Lot ID	Exp. Date	Matrix H_2SO_4 / NaOH / DI	H_2SO_4 / NaOH Lot #
F	233800	4.00	5.0	10.0	2.00	2/21/24 KW	A	2/22/24	DI	—
Cl	exp: 8/8/24	8.00			4.00	2/22/24 KW	B	2/23/24	DI	—
NO_2		4.00			2.00	2/23/24 KW	C	2/24/24	DI	—
Br		4.00			2.00	2/26/24 KW	D	2/27/24	DI	—
NO_3		4.00			2.00	2/27/24 KW	E	2/28/24	DI	—
OPO_4		4.00			2.00	2/28/24 KW	F	2/29/24	DI	—
SO_4		8.00			4.00		G			
							H			
							I			
							J			
							K			
							L			
							M			
							N			
							O			
							P			
							Q			
							R			

LCS Prep

(Stocks delivered using volumetric glassware and brought to volume with DI. LCS expires after 7 days; if NO_2 is needed, LCS must be prepared daily.)

(MS prepared fresh daily using same volume of intermediate stock added to 100mLs sample. MS not prepared volumetrically.)

Analyte	Calibration Intermediate Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst / Date Prepped	Lot ID	Exp. Date	Matrix H_2SO_4 / NaOH / DI	H_2SO_4 / NaOH Lot #
F	233462	50	2.0	200	1.0	KW 2/26/24	A	3/4/24	DI	—
Cl	exp 3/31/24	100			2.0	KW 2/27/24	B	3/5/24	DI	—
NO_2		50			1.0	KW 2/28/24	C	3/6/24	DI	—
Br		50			1.0		D			
NO_3		50			1.0		E			
OPO_4		50			1.0		F			
SO_4		100			2.0		G			
							H			
							I			
							J			
							K			
							L			
							M			
							N			
							O			
							P			
							Q			
							R			

Analysis: 300.0/9056A
ICAL Date: 12/27/23
Instrument: IC# 10
Curve Type: Linear (Quadratic)

IC Initial Calibration Checklist

☑ 1. Is the required documentation in the ICAL file?
- ☑ IC Cover Sheet – correct?
- ☑ Logbook Copies Complete
- ☑ Method Parameters Report
- ☑ Plots of all analytes
- ☑ Chromatograms of all curve points, ICV, ICB

☑ 2. Was the ICAL performed continuously (i.e., not interrupted for maintenance or for sample analysis)?

NA ☐ 3. For any reanalyzed points, was reanalysis within 8 hours of the final standard of the original ICAL?

☑ 4. Are all the analytes in the blank analysis < MRL?

☑ 5. Have the retention times been updated from the mid-point calibration standard?

☑ 6. Does each analyte's ICAL include, consecutively, the minimum number of concentration levels (3 for linear regression for 300.0, 9056, 7199, 218.6; six for 218.7; six plus blank for any quadratic curve)?

☑ 7. For each analyte, is the lowest standard's concentration at or below the analyte's MRL?

☑ 8. For each analyte, are there no levels skipped?

☑ 9. For each analyte, does a check of the linearity meet a correlation coefficient of ≥0.995 (Method 300/9056) or ≥0.999 (Methods 7199/218.6/218.7)?

☑ 10. For the ICV analysis, is the percent recovery for each analyte 90 – 110% (300.0/9056/7199); 95-105% (218.6); 85-115 (218.7)?

☑ 11. Are all peak integrations acceptable?

☑ 12. Do the peak areas match the Method Parameters Report (has the ICAL file been saved correctly)?

☑ 13. For each analyte, were the appropriate standards re-quantitated and printed?
- ☑ Did the LLOQ meet 50-150% recovery limits at the MRL level standard?
- ☑ Are recoveries of all standards greater than the MRL standard within (10% for 300.0/9056A; 15% for 218.7) of the true value? If a quadratic curve was used for 218.6/7199, are recoveries of all standards greater than the MRL within 10% of the true value?

COMMENTS

KW 12/29/23
10-122720 23FIAST

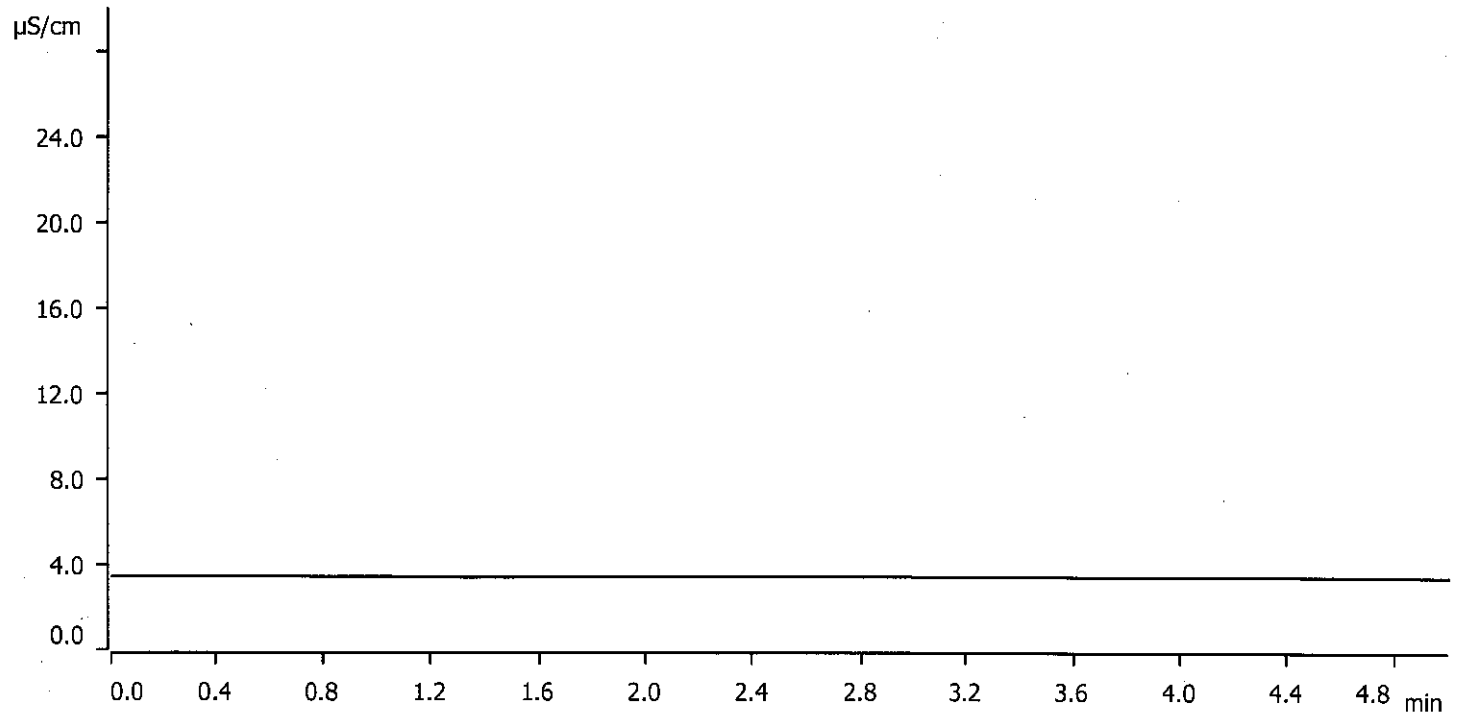
Analyst: KW Date: 12/29/23

Secondary Reviewer: [signature] Date: 12/29/23

Sample data

Ident	STANDARD 1
Sample type	Standard 1
Determination start	2023-12-27 12:26:26 UTC-5
Method	10-122723FAST
Dilution	1
Counter	74484
Sample Position	1
Comment 1	300.0/9056A
Comment 2	

Anions

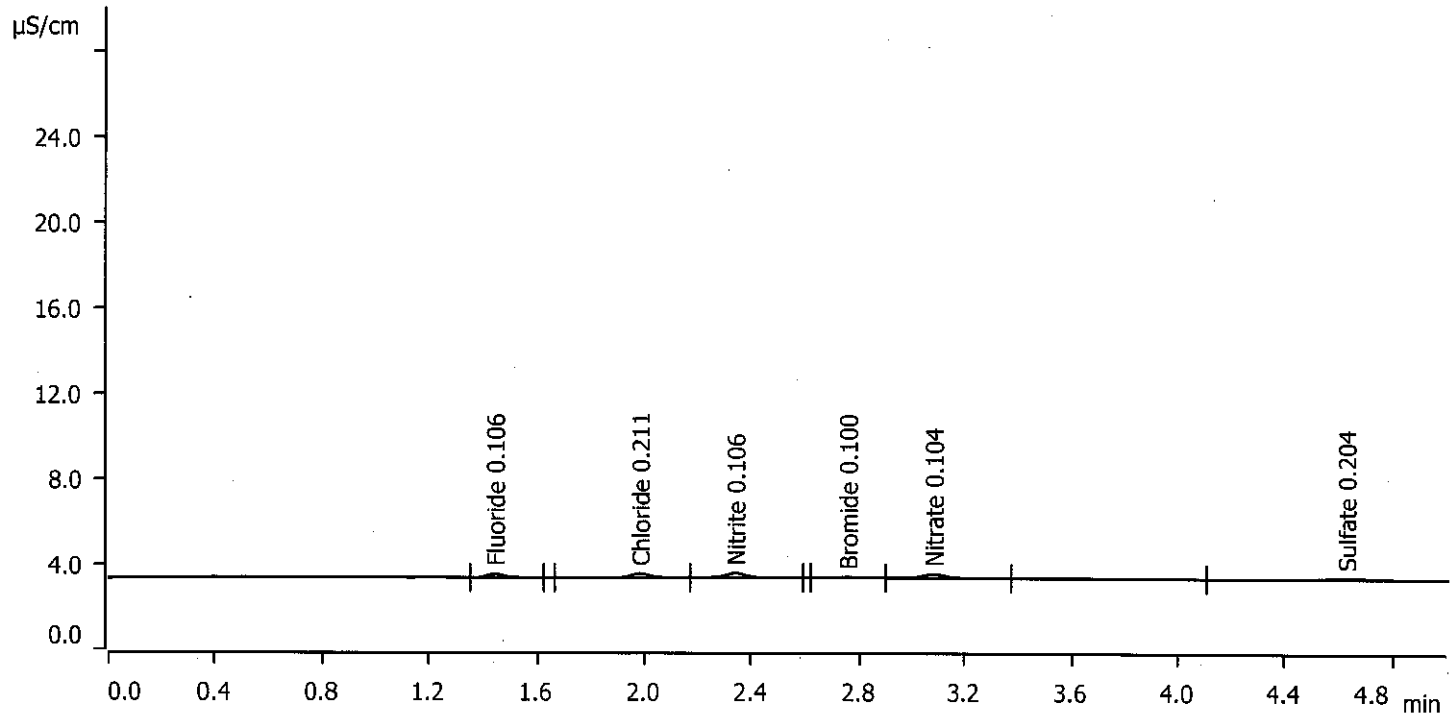


OK KAW
12/28/23

Sample data

Ident	STANDARD 2
Sample type	Standard 2
Determination start	2023-12-27 12:34:42 UTC-5
Method	10-122723FAST
Dilution	1
Counter	74485
Sample Position	2
Comment 1	300.0/9056A
Comment 2	

Anions



Anions

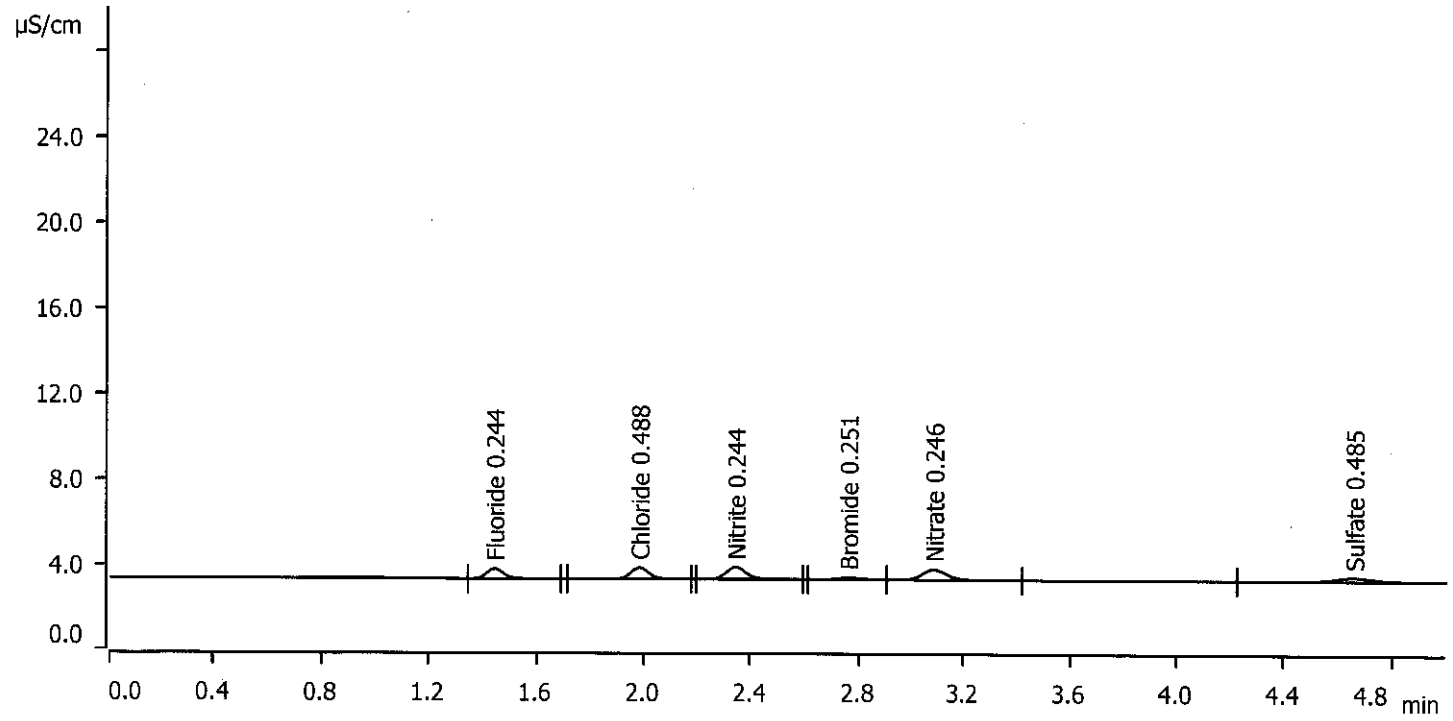
Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type	
1	1.45	0.014	0.106	Fluoride	BB	106% OK
2	1.98	0.016	0.211	Chloride	BB	106%
3	2.34	0.019	0.106	Nitrite	BB	106%
4	2.76	0.003	0.100	Bromide	BB	100%
5	3.08	0.020	0.104	Nitrate	BB	104%
6	4.63	0.013	0.204	Sulfate	BBI	102%

KAW 12/28/23

Sample data

Ident	STANDARD 3
Sample type	Standard 3
Determination start	2023-12-27 12:55:22 UTC-5
Method	10-122723FAST
Dilution	1
Counter	74486
Sample Position	3
Comment 1	300.0/9056A
Comment 2	

Anions



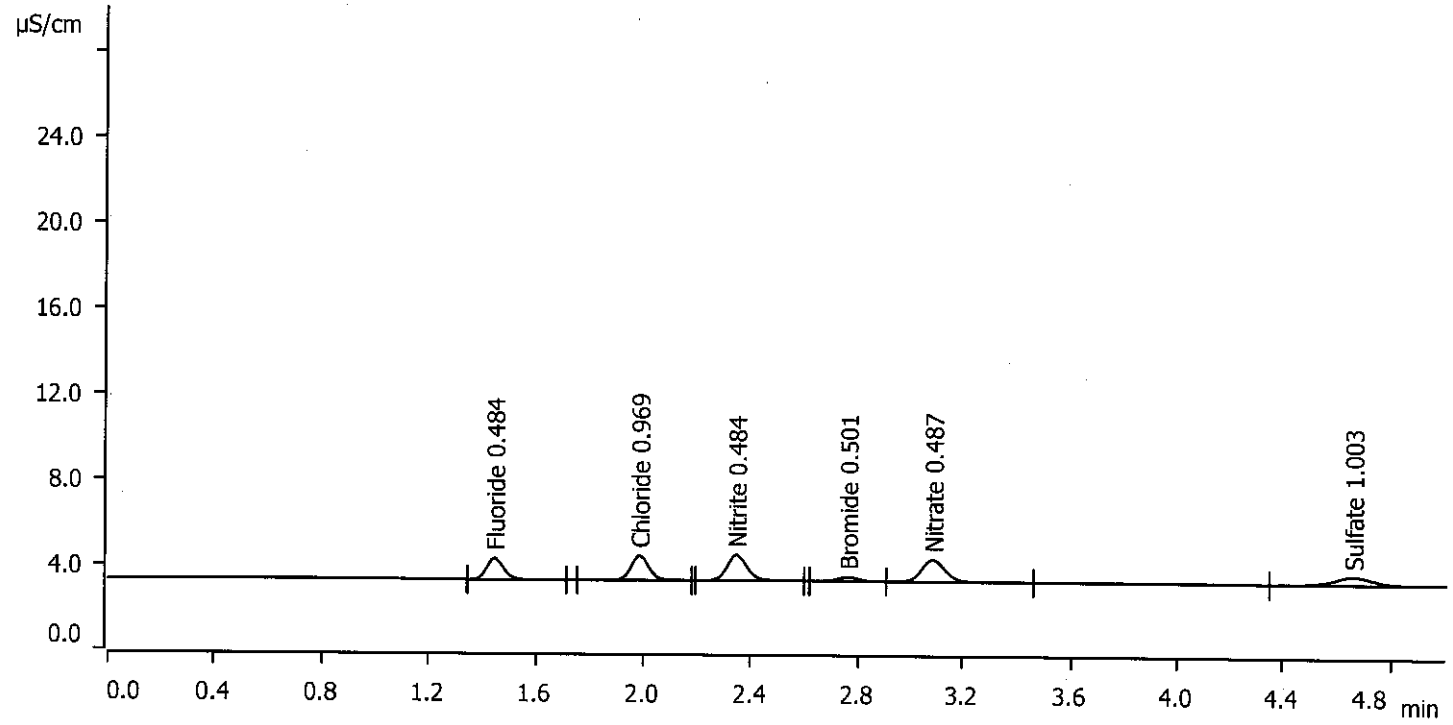
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type	
1	1.45	0.036	0.244	Fluoride	BB	97.6% OK
2	1.99	0.042	0.488	Chloride	BB	97.6%
3	2.34	0.050	0.244	Nitrite	BB	97.6% KAW 12/28/23
4	2.76	0.009	0.251	Bromide	BB	100%
5	3.09	0.052	0.246	Nitrate	BB	98.4%
6	4.66	0.032	0.485	Sulfate	BB	97.0% ✓

Sample data

Ident	STANDARD 4
Sample type	Standard 4
Determination start	2023-12-27 13:03:39 UTC-5
Method	10-122723FAST
Dilution	1
Counter	74487
Sample Position	4
Comment 1	300.0/9056A
Comment 2	

Anions



Anions

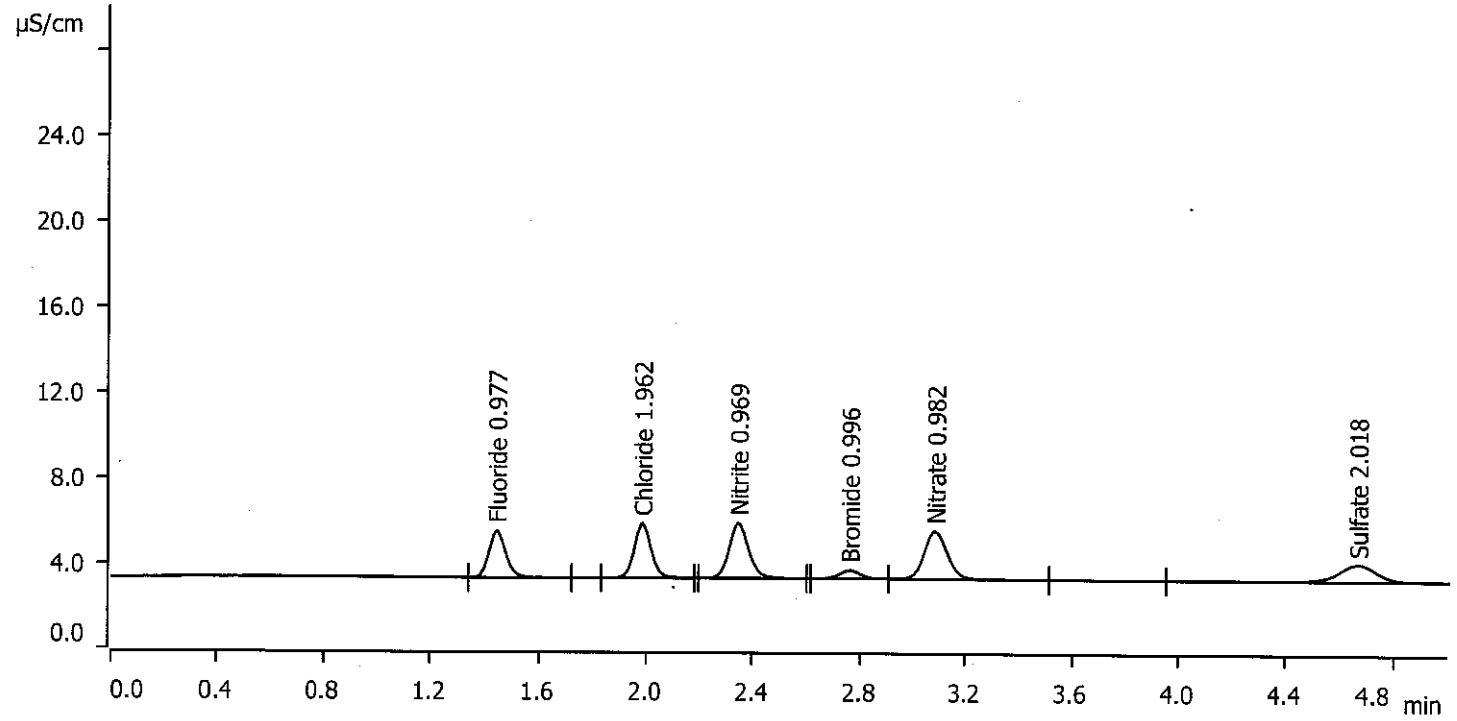
Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type	
1	1.45	0.075	0.484	Fluoride	BB	96.8%. OK
2	1.99	0.087	0.969	Chloride	BB	96.9%.
3	2.35	0.105	0.484	Nitrite	BB	96.8%.
4	2.76	0.018	0.501	Bromide	BB	100%.
5	3.09	0.108	0.487	Nitrate	BB	97.4%.
6	4.66	0.066	1.003	Sulfate	BB	100%.

KAW 12/28/23

Sample data

Ident	STANDARD 5
Sample type	Standard 5
Determination start	2023-12-27 13:11:56 UTC-5
Method	10-122723FAST
Dilution	1
Counter	74488
Sample Position	5
Comment 1	300.0/9056A
Comment 2	

Anions



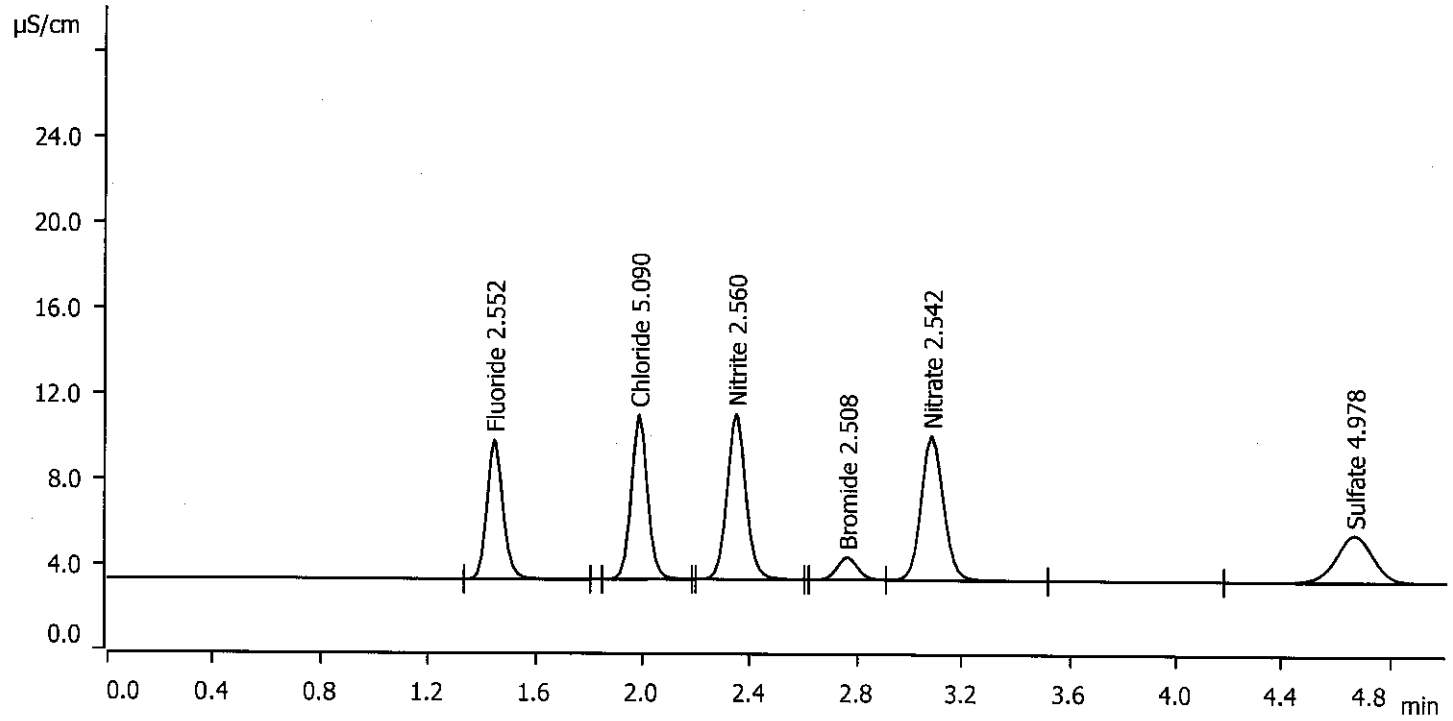
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type	
1	1.45	0.159	0.977	Fluoride	BB	97.7% OK
2	1.99	0.186	1.962	Chloride	BB	98.1% KAW 12/28/23
3	2.35	0.219	0.969	Nitrite	BB	96.9%
4	2.76	0.036	0.996	Bromide	BB	99.6%
5	3.09	0.229	0.982	Nitrate	BB	98.2%
6	4.67	0.135	2.018	Sulfate	BB	101%

Sample data

Ident	STANDARD 6
Sample type	Standard 6
Determination start	2023-12-27 13:20:12 UTC-5
Method	10-122723FAST
Dilution	1
Counter	74489
Sample Position	6
Comment 1	300.0/9056A
Comment 2	

Anions



Anions

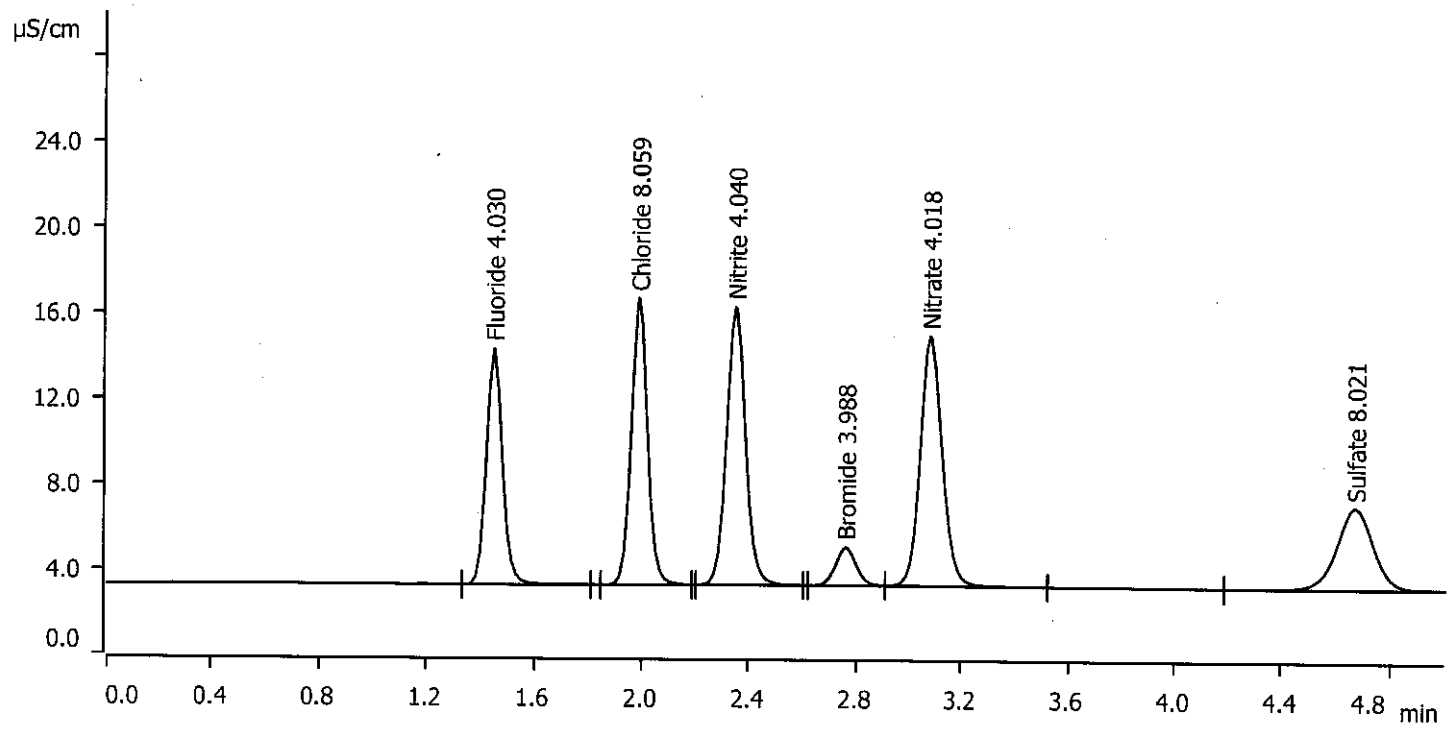
Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type	
1	1.45	0.452	2.552	Fluoride	BB	102%. OK
2	1.99	0.537	5.090	Chloride	BB	102%.
3	2.35	0.634	2.560	Nitrite	BB	102%.
4	2.76	0.095	2.508	Bromide	BB	100%.
5	3.08	0.660	2.542	Nitrate	BB	102%.
6	4.67	0.353	4.978	Sulfate	BB	99.6%.

PAW 12/28/23

Sample data

Ident	STANDARD 7
Sample type	Standard 7
Determination start	2023-12-27 13:28:29 UTC-5
Method	10-122723FAST
Dilution	1
Counter	74490
Sample Position	7
Comment 1	300.0/9056A
Comment 2	

Anions



Anions

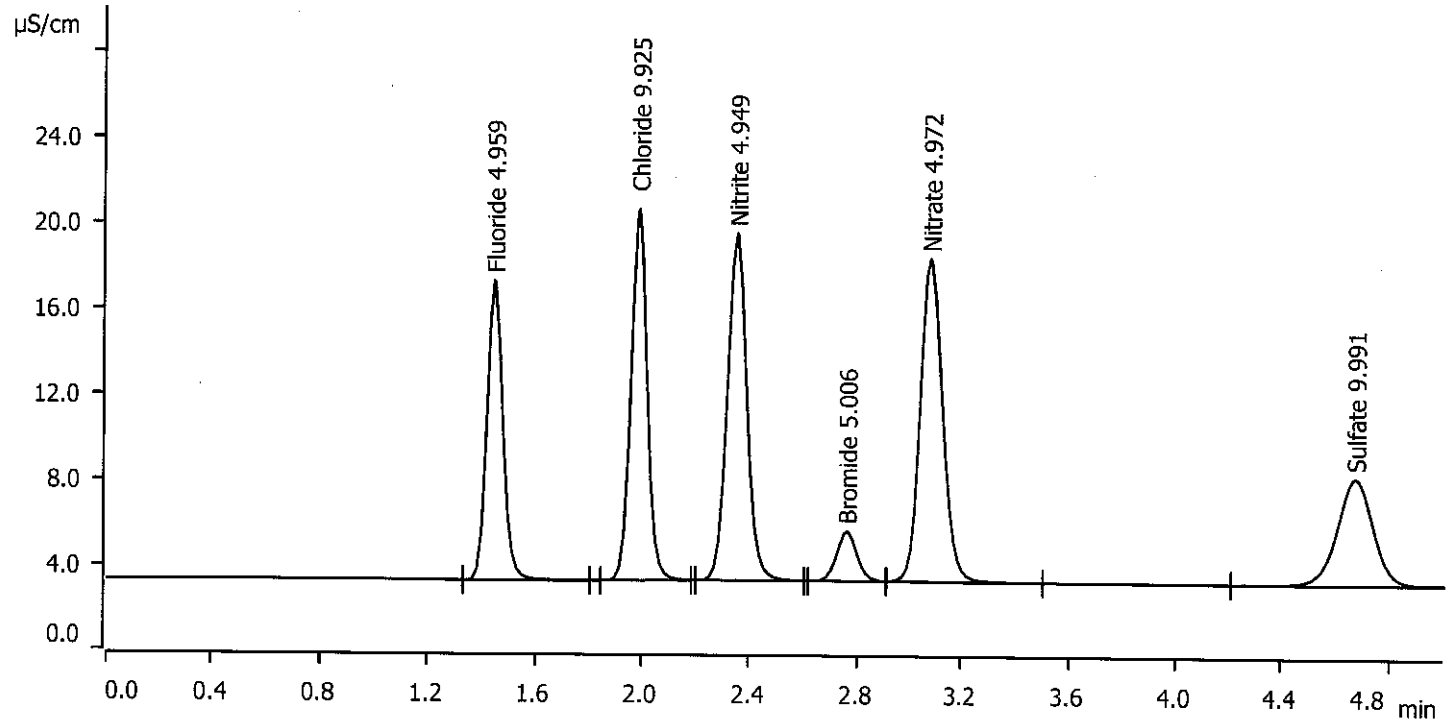
Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type	
1	1.45	0.764	4.030	Fluoride	BB	101% ok
2	1.99	0.928	8.059	Chloride	BB	101%
3	2.35	1.073	4.040	Nitrite	BB	101%
4	2.76	0.157	3.988	Bromide	BB	99.7%
5	3.08	1.139	4.018	Nitrate	BB	100%
6	4.67	0.604	8.021	Sulfate	BB	100%

KAS 12/28/23

Sample data

Ident	STANDARD 8
Sample type	Standard 8
Determination start	2023-12-27 13:36:45 UTC-5
Method	10-122723FAST
Dilution	1
Counter	74491
Sample Position	8
Comment 1	300.0/9056A
Comment 2	

Anions



Anions

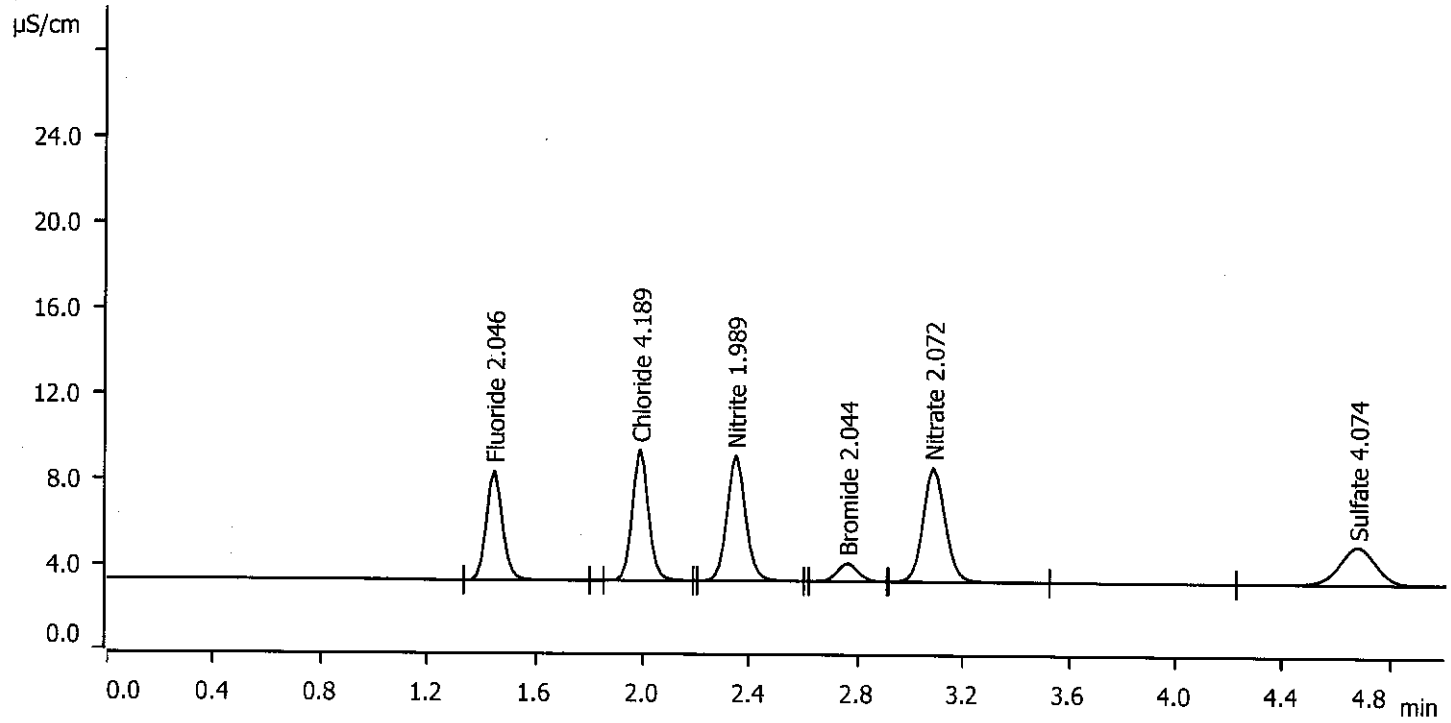
Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type	
1	1.45	0.979	4.959	Fluoride	BB	99.2% OK
2	1.99	1.202	9.925	Chloride	BB	99.3%
3	2.35	1.368	4.949	Nitrite	BB	99.0% KAW 12/28/23
4	2.76	0.204	5.006	Bromide	BB	100%
5	3.08	1.486	4.972	Nitrate	BB	99.4%
6	4.67	0.779	9.991	Sulfate	BB	99.9%

Page 1 of 1

Sample data

Ident	ICV
Sample type	Check standard 1
Determination start	2023-12-27 14:53:45 UTC-5
Method	10-122723FAST
Dilution	1
Counter	74492
Sample Position	9
Comment 1	300.0/9056A
Comment 2	

Anions



Anions

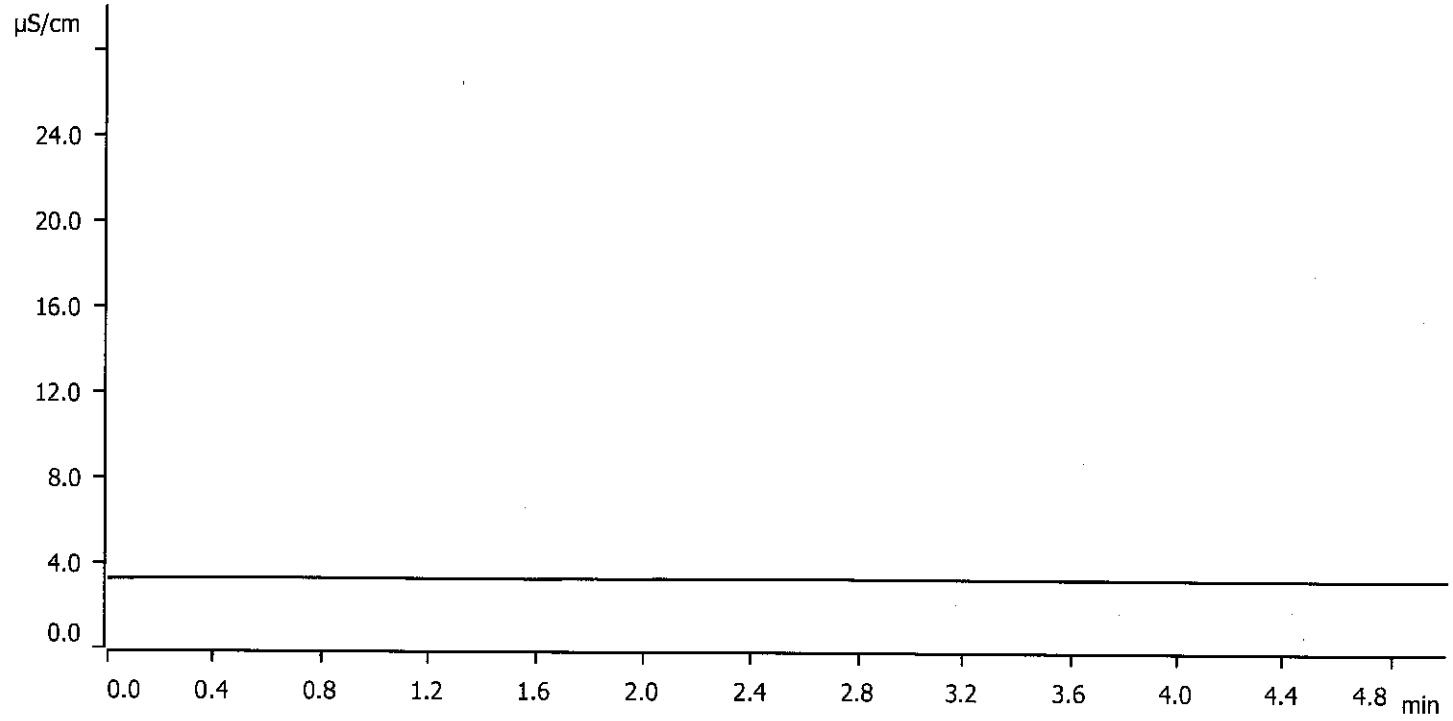
Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.353	2.046	Fluoride	BB
2	1.99	0.430	4.189	Chloride	BB
3	2.35	0.478	1.989	Nitrite	BB
4	2.76	0.076	2.044	Bromide	BB
5	3.09	0.522	2.072	Nitrate	BB
6	4.68	0.284	4.074	Sulfate	BB

OK KAW 12/28/23

Sample data

Ident	ICB
Sample type	Sample
Determination start	2023-12-27 15:02:01 UTC-5
Method	10-122723FAST
Dilution	1
Counter	74493
Sample Position	10
Comment 1	300.0/9056A
Comment 2	

Anions



OK RAW 12/28/23

CALIBRATION REPORT

Method 10-122723FAST

Anions

Data source . . . . . Conductivity detector 1 (930 Compact IC Flex 1)
Channel . . . . . Conductivity
Recording time 7.0min
Flow 2.000mL/min

Integration

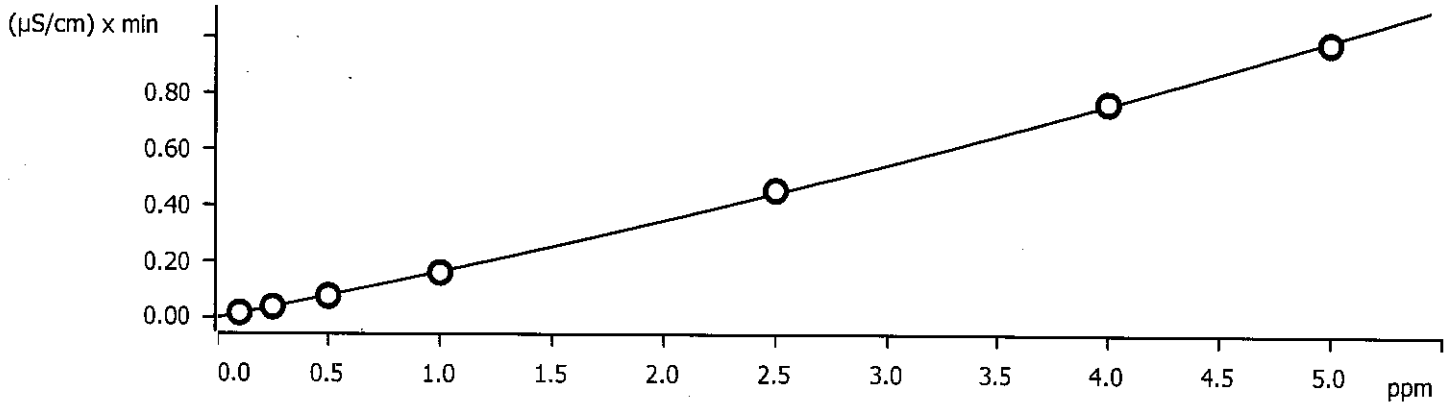
Anions

Sensitivity	40	
Smoothing	30	
Minimum height	0.01	µS/cm
Minimum area	0.001	(µS/cm) x min
Integration start	1.2	min
Polarity	+	
Negative peaks	off	
Drift compensation	off	
Ignore overflow	off	
Subtract blank	off	
Savitzky-Golay	off	
Activate events	off	

Events

Start [min]	End [min]	Event	Parameter
1.25	6.00	Valley-Valley	

Fluoride (Anions)



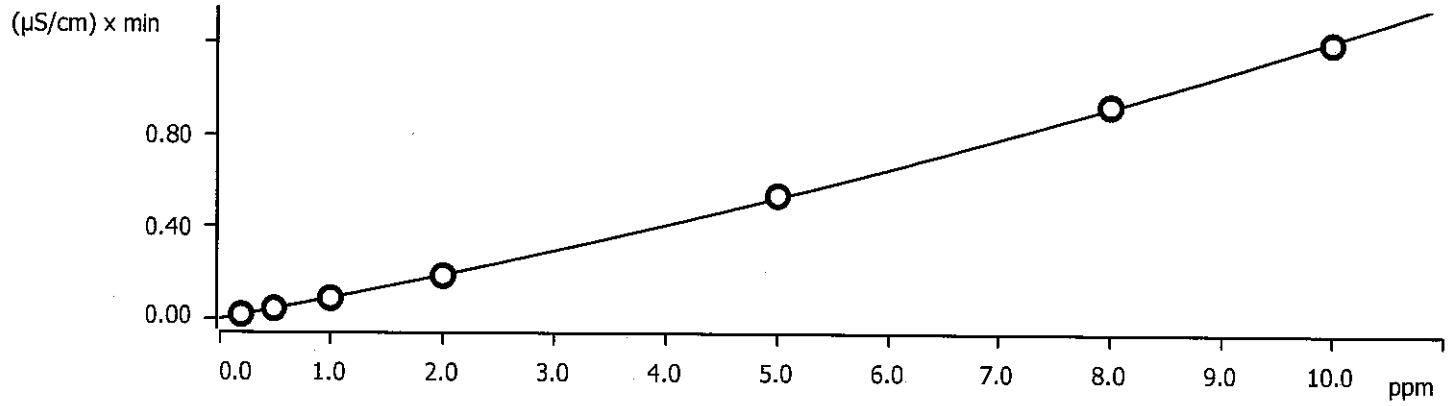
Function: . . . . . $A = - 2.98046E-3 + 7.87717E-3 \times Q + 2.03492E-5 \times Q^2$

Relative standard deviation . . . . . 2.321836 %

Correlation coefficient 0.999850

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2023-12-27 12:26:26 UTC-5	used
Standard 2	1	0.100	20.0	1.0	1.0	0.013739	STANDARD 2	2023-12-27 12:34:42 UTC-5	used
Standard 3	1	0.250	20.0	1.0	1.0	0.035991	STANDARD 3	2023-12-27 12:55:22 UTC-5	used
Standard 4	1	0.500	20.0	1.0	1.0	0.075156	STANDARD 4	2023-12-27 13:03:39 UTC-5	used
Standard 5	1	1.000	20.0	1.0	1.0	0.158755	STANDARD 5	2023-12-27 13:11:56 UTC-5	used
Standard 6	1	2.500	20.0	1.0	1.0	0.452146	STANDARD 6	2023-12-27 13:20:12 UTC-5	used
Standard 7	1	4.000	20.0	1.0	1.0	0.764053	STANDARD 7	2023-12-27 13:28:29 UTC-5	used
Standard 8	1	5.000	20.0	1.0	1.0	0.978533	STANDARD 8	2023-12-27 13:36:45 UTC-5	used

Chloride (Anions)



Function: . . . . . $A = - 2.72525E-3 + 4.49539E-3 \times Q + 7.92953E-6 \times Q^2$

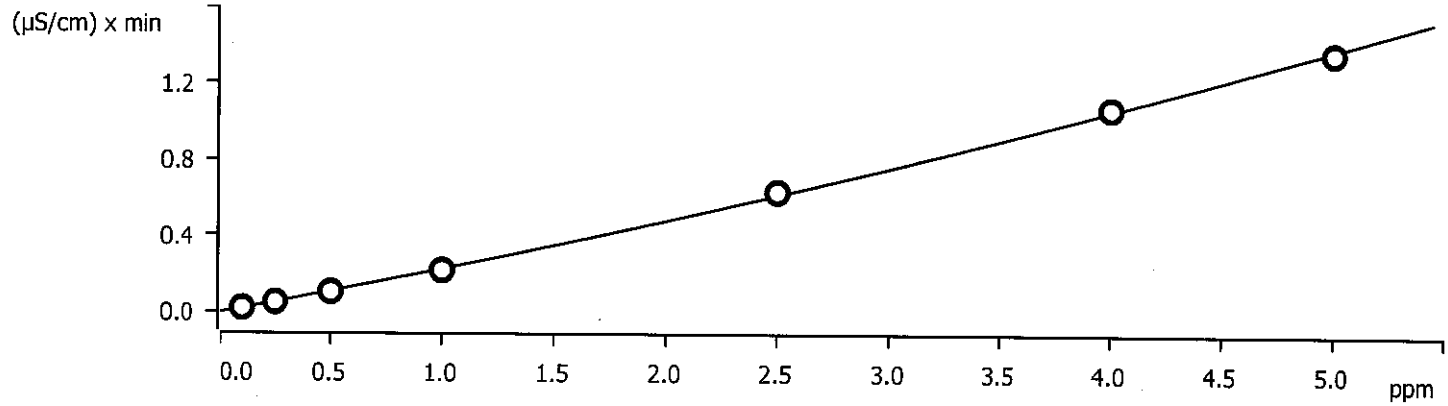
Relative standard deviation . . . . . 2.173350 %

Correlation coefficient 0.999872

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2023-12-27 12:26:26 UTC-5	used
Standard 2	1	0.200	20.0	1.0	1.0	0.016412	STANDARD 2	2023-12-27 12:34:42 UTC-5	used
Standard 3	1	0.500	20.0	1.0	1.0	0.041898	STANDARD 3	2023-12-27 12:55:22 UTC-5	used
Standard 4	1	1.000	20.0	1.0	1.0	0.087328	STANDARD 4	2023-12-27 13:03:39 UTC-5	used
Standard 5	1	2.000	20.0	1.0	1.0	0.185891	STANDARD 5	2023-12-27 13:11:56 UTC-5	used
Standard 6	1	5.000	20.0	1.0	1.0	0.537024	STANDARD 6	2023-12-27 13:20:12 UTC-5	used

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 7	1	8.000	20.0	1.0	1.0	0.927816	STANDARD 7	2023-12-27 13:28:29 UTC-5	used
Standard 8	1	10.000	20.0	1.0	1.0	1.202031	STANDARD 8	2023-12-27 13:36:45 UTC-5	used

Nitrite (Anions)



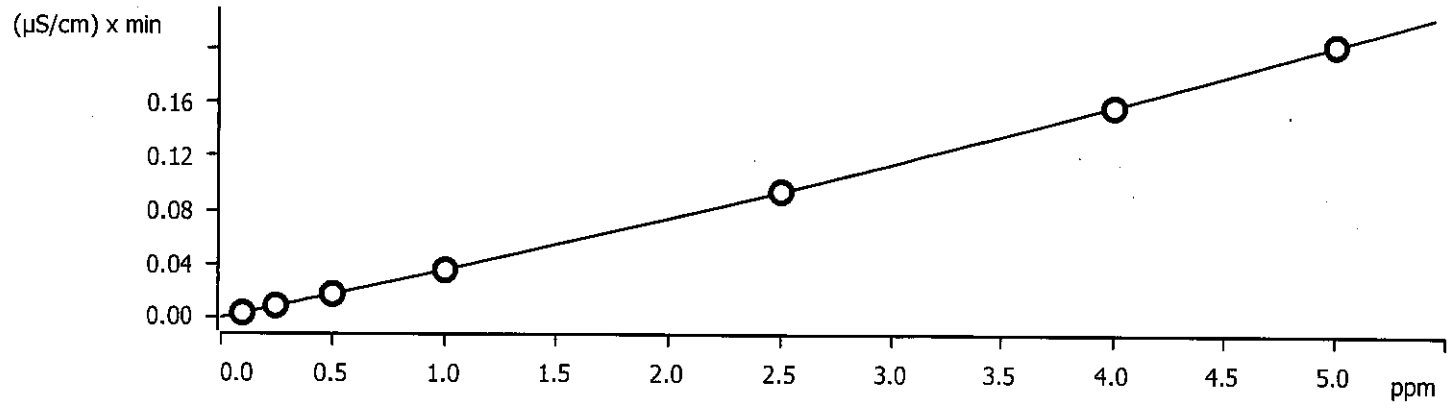
Function: . . . . . *A = - 4.01134E-3 + 0.0109593× Q + 2.92946E-5× Q²*

Relative standard deviation . . . . . *2.860722 %*

Correlation coefficient *0.999773*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2023-12-27 12:26:26 UTC-5	used
Standard 2	1	0.100	20.0	1.0	1.0	0.019416	STANDARD 2	2023-12-27 12:34:42 UTC-5	used
Standard 3	1	0.250	20.0	1.0	1.0	0.050062	STANDARD 3	2023-12-27 12:55:22 UTC-5	used
Standard 4	1	0.500	20.0	1.0	1.0	0.104885	STANDARD 4	2023-12-27 13:03:39 UTC-5	used
Standard 5	1	1.000	20.0	1.0	1.0	0.219459	STANDARD 5	2023-12-27 13:11:56 UTC-5	used
Standard 6	1	2.500	20.0	1.0	1.0	0.633968	STANDARD 6	2023-12-27 13:20:12 UTC-5	used
Standard 7	1	4.000	20.0	1.0	1.0	1.072890	STANDARD 7	2023-12-27 13:28:29 UTC-5	used
Standard 8	1	5.000	20.0	1.0	1.0	1.367858	STANDARD 8	2023-12-27 13:36:45 UTC-5	used

Bromide (Anions)



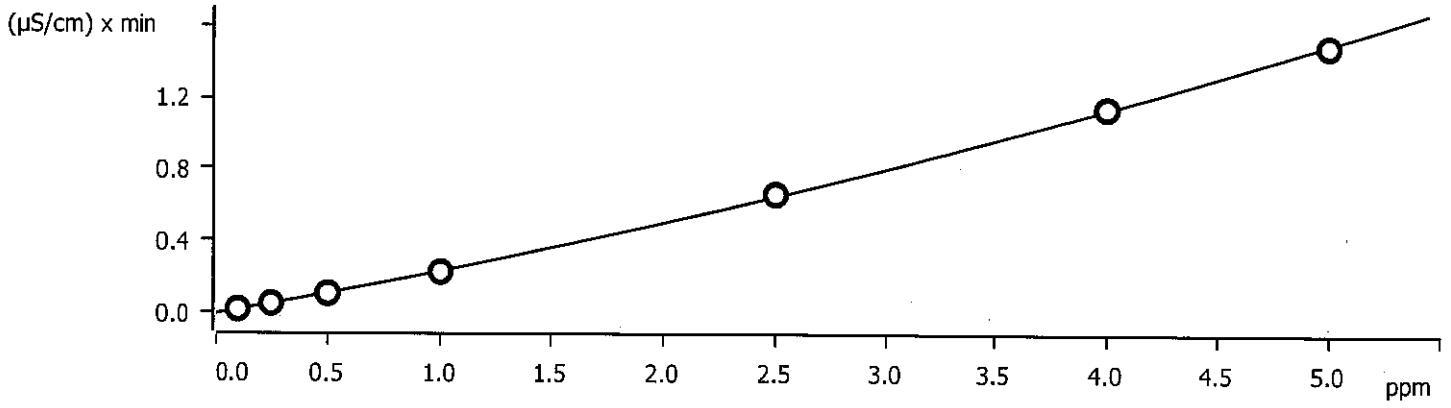
Function: . . . . . *A = - 9.24673E-5 + 1.73962E-3× Q + 2.93920E-6× Q²*

Relative standard deviation . . . . . *0.461983 %*

Correlation coefficient *0.999994*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2023-12-27 12:26:26 UTC-5	used
Standard 2	1	0.100	20.0	1.0	1.0	0.003388	STANDARD 2	2023-12-27 12:34:42 UTC-5	used
Standard 3	1	0.250	20.0	1.0	1.0	0.008705	STANDARD 3	2023-12-27 12:55:22 UTC-5	used
Standard 4	1	0.500	20.0	1.0	1.0	0.017644	STANDARD 4	2023-12-27 13:03:39 UTC-5	used
Standard 5	1	1.000	20.0	1.0	1.0	0.035728	STANDARD 5	2023-12-27 13:11:56 UTC-5	used
Standard 6	1	2.500	20.0	1.0	1.0	0.094565	STANDARD 6	2023-12-27 13:20:12 UTC-5	used
Standard 7	1	4.000	20.0	1.0	1.0	0.157374	STANDARD 7	2023-12-27 13:28:29 UTC-5	used
Standard 8	1	5.000	20.0	1.0	1.0	0.203537	STANDARD 8	2023-12-27 13:36:45 UTC-5	used

Nitrate (Anions)



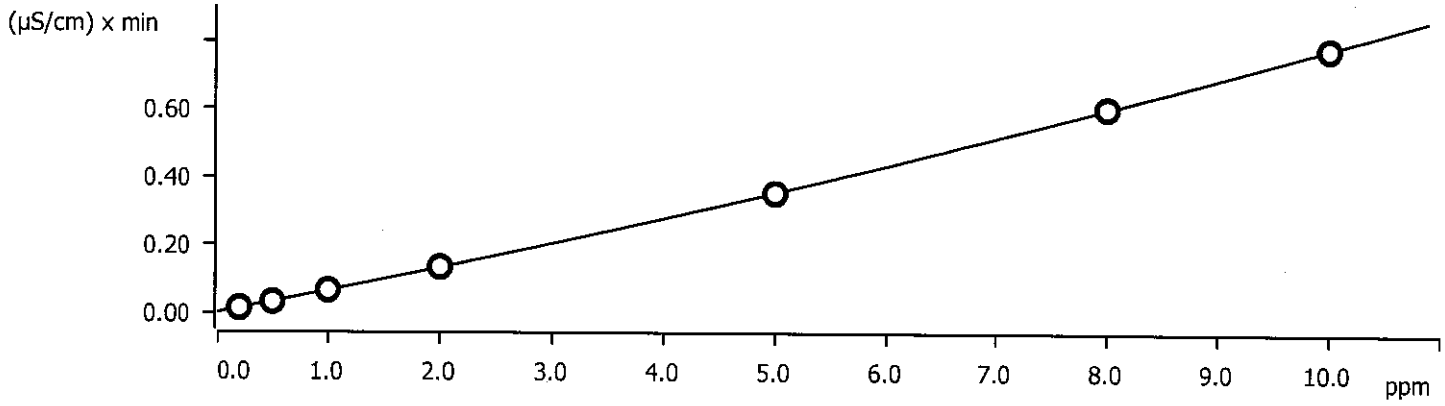
Function: . . . . . $A = -3.35311E-3 + 0.0110350 \times Q + 3.96460E-5 \times Q^2$

Relative standard deviation . . . . . *1.766436 %*

Correlation coefficient *0.999916*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2023-12-27 12:26:26 UTC-5	used
Standard 2	1	0.100	20.0	1.0	1.0	0.019850	STANDARD 2	2023-12-27 12:34:42 UTC-5	used
Standard 3	1	0.250	20.0	1.0	1.0	0.051887	STANDARD 3	2023-12-27 12:55:22 UTC-5	used
Standard 4	1	0.500	20.0	1.0	1.0	0.107879	STANDARD 4	2023-12-27 13:03:39 UTC-5	used
Standard 5	1	1.000	20.0	1.0	1.0	0.228593	STANDARD 5	2023-12-27 13:11:56 UTC-5	used
Standard 6	1	2.500	20.0	1.0	1.0	0.660201	STANDARD 6	2023-12-27 13:20:12 UTC-5	used
Standard 7	1	4.000	20.0	1.0	1.0	1.139446	STANDARD 7	2023-12-27 13:28:29 UTC-5	used
Standard 8	1	5.000	20.0	1.0	1.0	1.485897	STANDARD 8	2023-12-27 13:36:45 UTC-5	used

Sulfate (Anions)



Function: . . . . . $A = 3.18966E-4 + 3.19509E-3 \times Q + 3.52476E-6 \times Q^2$

Relative standard deviation . . . . . *0.544274 %*

Correlation coefficient *0.999992*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2023-12-27 12:26:26 UTC-5	used
Standard 2	1	0.200	20.0	1.0	1.0	0.013436	STANDARD 2	2023-12-27 12:34:42 UTC-5	used
Standard 3	1	0.500	20.0	1.0	1.0	0.031673	STANDARD 3	2023-12-27 12:55:22 UTC-5	used
Standard 4	1	1.000	20.0	1.0	1.0	0.065801	STANDARD 4	2023-12-27 13:03:39 UTC-5	used
Standard 5	1	2.000	20.0	1.0	1.0	0.135024	STANDARD 5	2023-12-27 13:11:56 UTC-5	used
Standard 6	1	5.000	20.0	1.0	1.0	0.353383	STANDARD 6	2023-12-27 13:20:12 UTC-5	used

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 7	1	8.000	20.0	1.0	1.0	0.603595	STANDARD 7	2023-12-27 13:28:29 UTC-5	used
Standard 8	1	10.000	20.0	1.0	1.0	0.779492	STANDARD 8	2023-12-27 13:36:45 UTC-5	used

CALIBRATION REPORT

Method 10-122723FAST

Anions

Data source . . . . . Conductivity detector 1 (930 Compact IC Flex 1)
Channel . . . . . Conductivity
Recording time 7.0min
Flow 2.000mL/min

Integration

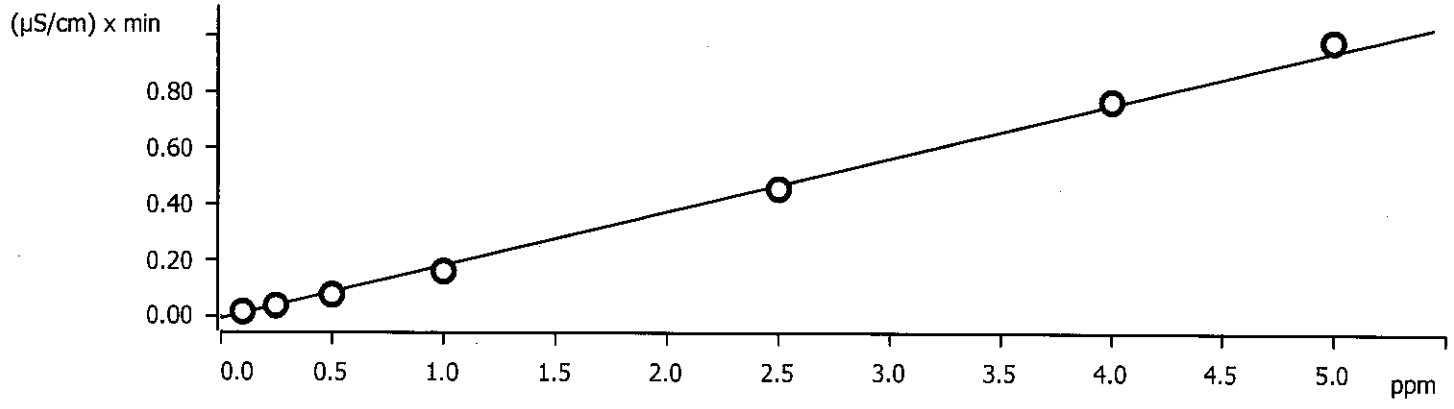
Anions

Sensitivity	40	
Smoothing	30	
Minimum height	0.01	µS/cm
Minimum area	0.001	(µS/cm) x min
Integration start	1.2	min
Polarity	+	
Negative peaks	off	
Drift compensation	off	
Ignore overflow	off	
Subtract blank	off	
Savitzky-Golay	off	
Activate events	off	

Events

Start [min]	End [min]	Event	Parameter
1.25	6.00	Valley-Valley	

Fluoride (Anions)



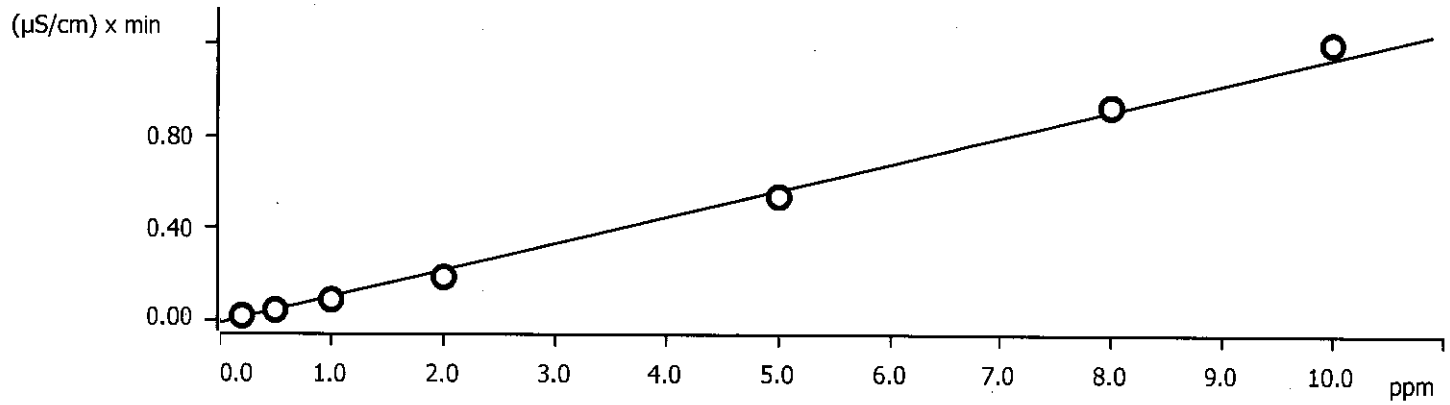
Function: . . . . . *A = - 9.46332E-3 + 9.50068E-3× Q*

Relative standard deviation . . . . . *6.194242 %*

Correlation coefficient *0.998664*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2023-12-27 12:26:26 UTC-5	used
Standard 2	1	0.100	20.0	1.0	1.0	0.013739	STANDARD 2	2023-12-27 12:34:42 UTC-5	used
Standard 3	1	0.250	20.0	1.0	1.0	0.035991	STANDARD 3	2023-12-27 12:55:22 UTC-5	used
Standard 4	1	0.500	20.0	1.0	1.0	0.075156	STANDARD 4	2023-12-27 13:03:39 UTC-5	used
Standard 5	1	1.000	20.0	1.0	1.0	0.158755	STANDARD 5	2023-12-27 13:11:56 UTC-5	used
Standard 6	1	2.500	20.0	1.0	1.0	0.452146	STANDARD 6	2023-12-27 13:20:12 UTC-5	used
Standard 7	1	4.000	20.0	1.0	1.0	0.764053	STANDARD 7	2023-12-27 13:28:29 UTC-5	used
Standard 8	1	5.000	20.0	1.0	1.0	0.978533	STANDARD 8	2023-12-27 13:36:45 UTC-5	used

Chloride (Anions)



Function: . . . . . *A = - 0.0128384 + 5.75429E-3× Q*

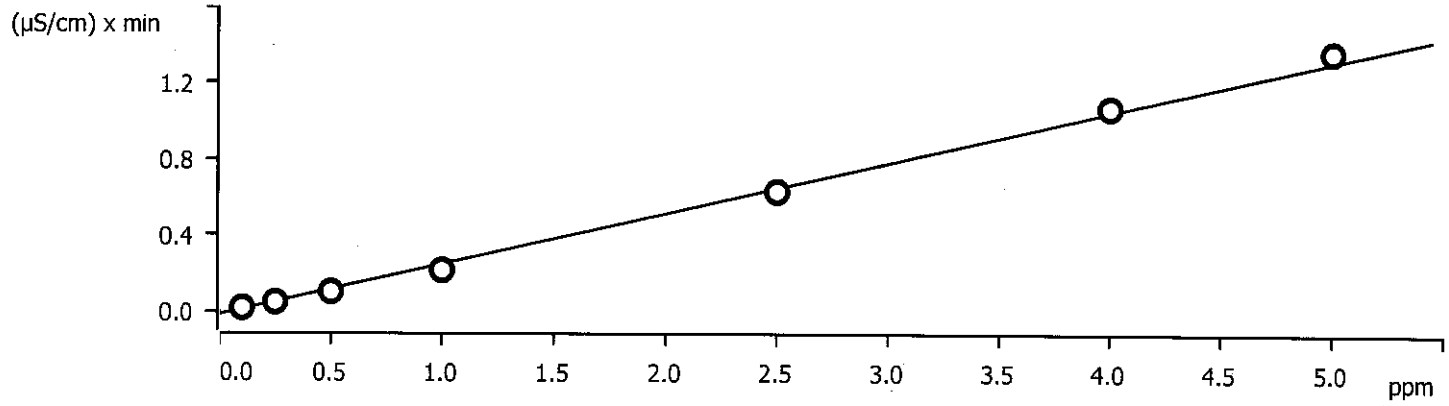
Relative standard deviation . . . . . *8.357545 %*

Correlation coefficient *0.997631*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2023-12-27 12:26:26 UTC-5	used
Standard 2	1	0.200	20.0	1.0	1.0	0.016412	STANDARD 2	2023-12-27 12:34:42 UTC-5	used
Standard 3	1	0.500	20.0	1.0	1.0	0.041898	STANDARD 3	2023-12-27 12:55:22 UTC-5	used
Standard 4	1	1.000	20.0	1.0	1.0	0.087328	STANDARD 4	2023-12-27 13:03:39 UTC-5	used
Standard 5	1	2.000	20.0	1.0	1.0	0.185891	STANDARD 5	2023-12-27 13:11:56 UTC-5	used
Standard 6	1	5.000	20.0	1.0	1.0	0.537024	STANDARD 6	2023-12-27 13:20:12 UTC-5	used

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 7	1	8.000	20.0	1.0	1.0	0.927816	STANDARD 7	2023-12-27 13:28:29 UTC-5	used
Standard 8	1	10.000	20.0	1.0	1.0	1.202031	STANDARD 8	2023-12-27 13:36:45 UTC-5	used

Nitrite (Anions)



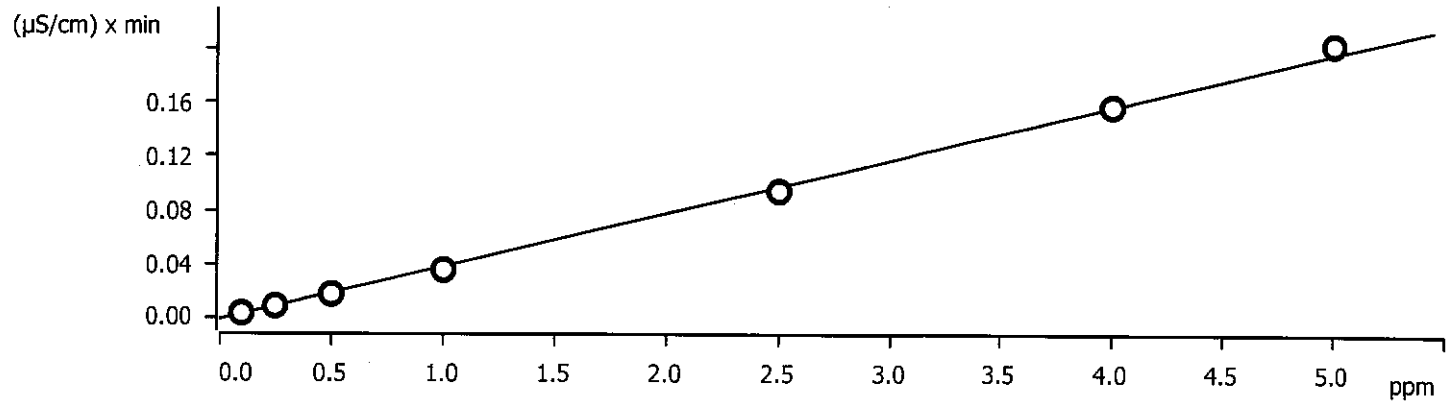
Function: . . . . . *A = - 0.0133915 + 0.0132965× Q*

Relative standard deviation . . . . . *6.275413 %*

Correlation coefficient *0.998631*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2023-12-27 12:26:26 UTC-5	used
Standard 2	1	0.100	20.0	1.0	1.0	0.019416	STANDARD 2	2023-12-27 12:34:42 UTC-5	used
Standard 3	1	0.250	20.0	1.0	1.0	0.050062	STANDARD 3	2023-12-27 12:55:22 UTC-5	used
Standard 4	1	0.500	20.0	1.0	1.0	0.104885	STANDARD 4	2023-12-27 13:03:39 UTC-5	used
Standard 5	1	1.000	20.0	1.0	1.0	0.219459	STANDARD 5	2023-12-27 13:11:56 UTC-5	used
Standard 6	1	2.500	20.0	1.0	1.0	0.633968	STANDARD 6	2023-12-27 13:20:12 UTC-5	used
Standard 7	1	4.000	20.0	1.0	1.0	1.072890	STANDARD 7	2023-12-27 13:28:29 UTC-5	used
Standard 8	1	5.000	20.0	1.0	1.0	1.367858	STANDARD 8	2023-12-27 13:36:45 UTC-5	used

Bromide (Anions)



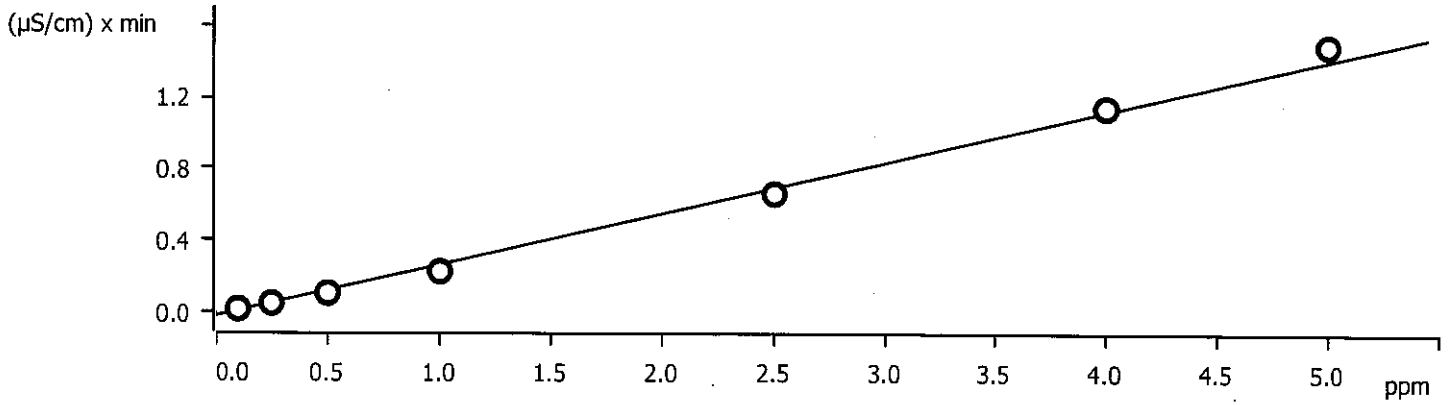
Function: . . . . . *A = - 1.06261E-3 + 1.97635E-3× Q*

Relative standard deviation . . . . . *4.943105 %*

Correlation coefficient *0.999110*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2023-12-27 12:26:26 UTC-5	used
Standard 2	1	0.100	20.0	1.0	1.0	0.003388	STANDARD 2	2023-12-27 12:34:42 UTC-5	used
Standard 3	1	0.250	20.0	1.0	1.0	0.008705	STANDARD 3	2023-12-27 12:55:22 UTC-5	used
Standard 4	1	0.500	20.0	1.0	1.0	0.017644	STANDARD 4	2023-12-27 13:03:39 UTC-5	used
Standard 5	1	1.000	20.0	1.0	1.0	0.035728	STANDARD 5	2023-12-27 13:11:56 UTC-5	used
Standard 6	1	2.500	20.0	1.0	1.0	0.094565	STANDARD 6	2023-12-27 13:20:12 UTC-5	used
Standard 7	1	4.000	20.0	1.0	1.0	0.157374	STANDARD 7	2023-12-27 13:28:29 UTC-5	used
Standard 8	1	5.000	20.0	1.0	1.0	0.203537	STANDARD 8	2023-12-27 13:36:45 UTC-5	used

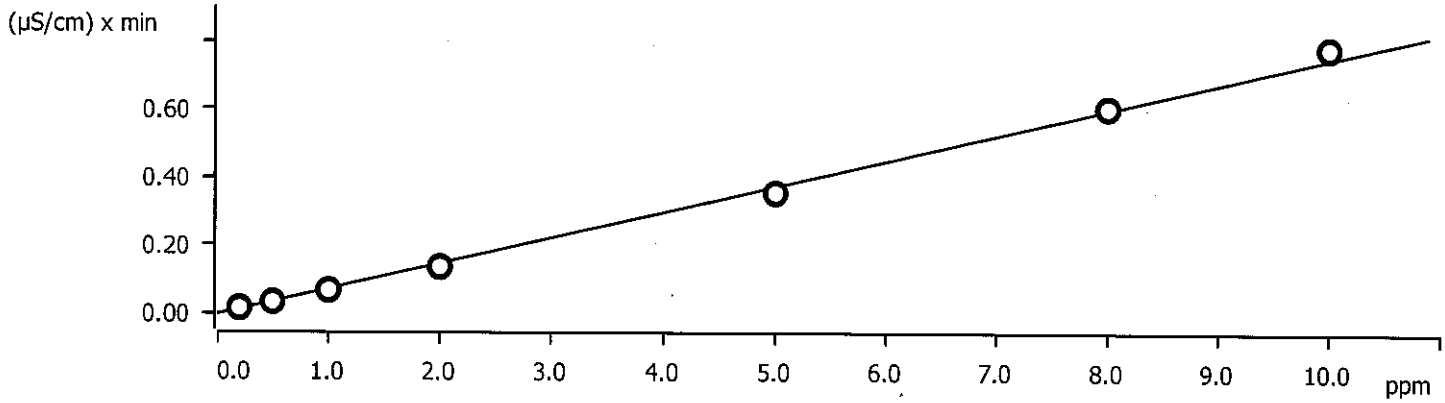
Nitrate (Anions)



Function: . . . . . *A = - 0.0159002 + 0.0141785× Q*
Relative standard deviation . . . . . *8.677551 %*
Correlation coefficient *0.997452*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2023-12-27 12:26:26 UTC-5	used
Standard 2	1	0.100	20.0	1.0	1.0	0.019850	STANDARD 2	2023-12-27 12:34:42 UTC-5	used
Standard 3	1	0.250	20.0	1.0	1.0	0.051887	STANDARD 3	2023-12-27 12:55:22 UTC-5	used
Standard 4	1	0.500	20.0	1.0	1.0	0.107879	STANDARD 4	2023-12-27 13:03:39 UTC-5	used
Standard 5	1	1.000	20.0	1.0	1.0	0.228593	STANDARD 5	2023-12-27 13:11:56 UTC-5	used
Standard 6	1	2.500	20.0	1.0	1.0	0.660201	STANDARD 6	2023-12-27 13:20:12 UTC-5	used
Standard 7	1	4.000	20.0	1.0	1.0	1.139446	STANDARD 7	2023-12-27 13:28:29 UTC-5	used
Standard 8	1	5.000	20.0	1.0	1.0	1.485897	STANDARD 8	2023-12-27 13:36:45 UTC-5	used

Sulfate (Anions)



Function: . . . . . *A = - 4.41532E-3 + 3.76231E-3× Q*
Relative standard deviation . . . . . *6.162236 %*
Correlation coefficient *0.998637*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2023-12-27 12:26:26 UTC-5	used
Standard 2	1	0.200	20.0	1.0	1.0	0.013436	STANDARD 2	2023-12-27 12:34:42 UTC-5	used
Standard 3	1	0.500	20.0	1.0	1.0	0.031673	STANDARD 3	2023-12-27 12:55:22 UTC-5	used
Standard 4	1	1.000	20.0	1.0	1.0	0.065801	STANDARD 4	2023-12-27 13:03:39 UTC-5	used
Standard 5	1	2.000	20.0	1.0	1.0	0.135024	STANDARD 5	2023-12-27 13:11:56 UTC-5	used
Standard 6	1	5.000	20.0	1.0	1.0	0.353383	STANDARD 6	2023-12-27 13:20:12 UTC-5	used

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 7	1	8.000	20.0	1.0	1.0	0.603595	STANDARD 7	2023-12-27 13:28:29 UTC-5	used
Standard 8	1	10.000	20.0	1.0	1.0	0.779492	STANDARD 8	2023-12-27 13:36:45 UTC-5	used

ALS Environmental

1575 Jefferson Road, Building 300, Suite 360, Rochester, New York 14623

Ion Chromatography Cover Sheet

Instrument: Metrohm IC 930 (IC#10)

Column: Dionex IonPac AS22-Fast (Installed 12/27/2023)

Curve Date: 12/27/23 **Loop size: 25 uL Loop**

Analyst: KDW **Analysis Date:** 12/27/23

Balance ID for Soil Preparation: NA

Is copy of LCS attached to run? (YES) / NO

Method Filename: 10-122723FAST

Standards Prep Dates & Log ID's:

Std Type	*Prep Date*	*Log ID*		*Std Type*	*Prep Date*	*Log ID*
Calibration Intermediate	11/30/2023	232528		Working Calibration Stds	12/27/2023	WC236013D
LCS / MS Intermediate	11/30/2023	232528		Working LCS/MS Standard	12/27/2023	WC236085D
ICV Intermediate	12/06/2023	232572		Working ICV Standard	12/27/2023	WC236025A
CCV Intermediate	12/062023	232572		Working CCV Standard	12/27/2023	WC236025A

Original Retention Times for this method are based on Standard 6 and are as follows:

Fluoride: 1.45	Bromide: 2.76
Chloride: 1.99	Nitrate: 3.08
Nitrite: 2.35	Sulfate: 4.67

Additional Comments: Column Serial Number: 231004231
Linear Range Verification (High Standard) Analyzed: 08/29/2023 – Due Every Six Months

CALIBRATION STANDARDS PREP

(Stocks delivered using volumetric glassware and brought to volume with DI Water. Expire after 7 days.)

Std #	mLs Intermediate Stock	Final Vol. mLs	Final Std. Conc. (mg/L)							Calibration Intermediate Stock ID	Analyst / Date Prepped	Lot ID	Exp. Date	Matrix H_2SO_4/NaOH/DI	H_2SO_4 / NaOH Lot #
			F	Cl	NO_2	Br	NO_3	OPO_4	SO_4						
8	10.0	100	5.0	10.0	5.0	5.0	5.0	5.0	10.0	231324	KAW 10/19/23	A	10/26/23	DI	—
7	8.0	100	4.0	8.0	4.0	4.0	4.0	4.0	8.0	232056	KAW 11/15/23	B	11/30/23	DI	—
6	5.0	100	2.5	5.0	2.5	2.5	2.5	2.5	5.0	232528	KAW 12/6/23	C	12/13/23	DI	—
5	2.0	100	1.0	2.0	1.0	1.0	1.0	1.0	2.0	232528	KAW 12/27/23	D	1/3/24	DI	—
4	1.0	100	0.5	1.0	0.5	0.5	0.5	0.5	1.0			E			
3	0.5	100	0.25	0.50	0.25	0.25	0.25	0.25	0.50			F			
2	0.2	100	0.10	0.20	0.10	0.10	0.10	0.10	0.20			G			
1	0.0	100	0.0	0.00	0.0	0.0	0.0	0.0	0.00			H			
												I			
												J			
												K			
												L			
												M			
												N			
												O			
												P			
												Q			

ICV / CCV PREP

(A 1:1 dilution of the Reference Intermediate Stock is done daily.)

Analyte	ICV / CCV Intermediate Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst / Date Prepped	Lot ID	Exp. Date	Matrix H_2SO_4 / NaOH / DI	H_2SO_4 / NaOH Lot #
F	232572	4.00	5.0	10.0	2.00	KW 12/27/23	A	12/28/23	DI	–
Cl		8.00			4.00	KW 12/28/23	B	12/29/23	DI	–
NO_2		4.00			2.00	KW 12/29/23	C	12/30/23	DI	✓
Br		4.00			2.00		D			
NO_3		4.00			2.00		E			
OPO_4		4.00			2.00		F			
SO_4		8.00			4.00		G			
							H			
							I			
							J			
							K			
							L			
							M			
							N			
							O			
							P			
							Q			
							R			

LCS Prep

(Stocks delivered using volumetric glassware and brought to volume with DI. LCS expires after 7 days; if NO_2 is needed, LCS must be prepared daily.)

(MS prepared fresh daily using same volume of intermediate stock added to 100mLs sample. MS not prepared volumetrically.)

Analyte	Calibration Intermediate Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst / Date Prepped	Lot ID	Exp. Date	Matrix H_2SO_4 / NaOH / DI	H_2SO_4 / NaOH Lot #
F	232328	50	2.0	200	1.0	KW 12/20/23	A	12/27/23	DI	—
Cl	exp 3/31/24	100			2.0	KW 12/21/23	B	12/28/23	DI	—
NO_2		50			1.0	KW 12/22/23	C	12/29/23	DI	—
Br		50			1.0	KW 12/27/23	D	1/3/24	DI	—
NO_3		50			1.0	KW 12/28/23	E	1/4/24	DI	—
OPO_4		50			1.0	KW 12/29/23	F	1/5/24	DI	—
SO_4		100			2.0		G			
							H			
							I			
							J			
							K			
							L			
							M			
							N			
							O			
							P			
							Q			
							R			

Standard Solution Logbook - Inventory ID Summary

Inventory ID:	232528	Date Created:	11/30/23
Standard Name:	300.0 Calibration/LCS/MS Intermediate 50/100	Expiration Date:	3/31/24
Standard Type:	Stock Standard	Source:	IN HOUSE
ALS Lab:	ROCHESTER	Catalog #:	N/A
ALSTeam:	GenChem	Lot #:	
Container ID:	232528	Amount Prepared:	200.00 mL
Location:	ic bench		

Component Name	Amount	Units	Method / Test Name
Bromide	50	ppm	300.0 / Br
Chloride	100	ppm	300.0 / Chloride
Fluoride	50	ppm	300.0 / F
Nitrate as Nitrate	50	ppm	300.0 / NO3
Nitrate as Nitrogen	50	ppm	300.0 / NO3
Nitrite as Nitrite	50	ppm	300.0 / NO2
Nitrite as Nitrogen	50	ppm	300.0 / NO2
Sulfate	100	ppm	300.0 / SO4

Ingredients (Inventory ID: 232528)

Amount	Solution Name	Inventory ID	Material Type
120.000 mL	Water Deionized H2O	2262	Reagent
10.000 mL	Bromide 1000 ug/mL Br	228428	Stock Standard
10.000 mL	Fluoride 1000 ug/mL F	228501	Stock Standard
10.000 mL	Nitrite (NO2) 1000 ppm as N	228502	Stock Standard
20.000 mL	Sulfate 1000 ug/mL SO4	231552	Stock Standard
20.000 mL	Chloride 1000 ug/mL Cl	231553	Stock Standard
10.000 mL	Nitrate (NO3) 1000 ppm as N	232424	Stock Standard

Standard Solution Logbook - Inventory ID Summary

Inventory ID:	232572	Date Created:	12/4/23
Standard Name:	300.0 ICV/CCV Intermediate Stock 2/4ppm	Expiration Date:	8/8/24
Standard Type:	Working Standard	Source:	IN HOUSE
ALS Lab:	ROCHESTER	Catalog #:	N/A
ALSTeam:	GenChem	Lot #:	
Container ID:	232572	Amount Prepared:	1.00 L
Location:	IC BENCH		

Component Name	Amount	Units	Method / Test Name
Bromide	4.0	ppm	300.0 / Br
Chloride	8.0	ppm	300.0 / Chloride
Density	1.0000	%v	ASTM D1475-98(08) / Dens
Fluoride	4.0	ppm	300.0 / F
Nitrate as Nitrate	4.0	ppm	300.0 / NO3
Nitrate as Nitrogen	4.0	ppm	300.0 / NO3
Nitrite as Nitrite	4.0	ppm	300.0 / NO2
Nitrite as Nitrogen	4.0	ppm	300.0 / NO2
Specific Gravity	1.0000	%v	ASTM D1475-98(08) / Sp G
Sulfate	8.0	ppm	300.0 / SO4

Ingredients (Inventory ID: 232572)

Amount	Solution Name	Inventory ID	Material Type
1.000 L	Water Deionized H2O	2262	Reagent
4.000 mL	Nitrite (NO2) 1000 ppm as N	225981	Stock Standard
4.000 mL	Fluoride 1000 ug/mL F	229086	Stock Standard
4.000 mL	Bromide 1000 ug/mL Br	229090	Stock Standard
4.000 mL	Nitrate (NO3) 1000 ppm as N	229092	Stock Standard
8.000 mL	Sulfate 1000 ug/mL SO4	229130	Stock Standard
8.000 mL	Chloride 1000 ug/mL Cl	232226	Stock Standard

ATTACHMENT B
FIELD DOCUMENTATION

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0041**	**Date: 02/12/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel:BDT	**Well #:CW-13 (OLN-CW013-F007)**	**Static Water Level:13.24FT TOC**	

Depth to Top of Screen: NM	**Well Diameter (in.):2**	**Total Well Depth: 51.98 FT TOC**	**Purge Method: Pump**	**Time of Purge Initiation:06/07/2024 14:20**
☐ dedicated	**Date/Time of Pump Installation:02/12/2024 14:06**	**Pump Type: Peristaltic**	**Pump Depth: 49.98 FT TOC**	**Water Level after Pump Installation: 13.03 FT TOC**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (ppm)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)	Other Field Measurements:P Alk: 0.0ppm T Alk: 189ppm
14:22	200 mL/min	6.97	-109.8	0.80	826	9.7	NM	4.21	Clear	13.03	-0.21	
14:25	200 mL/min	6.92	-111.2	0.22	822	9.9	NM	2.52	Clear	13.03	-0.21	
14:28	200 mL/min	6.92	-114.8	0.00	822	10.0	NM	2.06	Clear	13.03	-0.21	Notes: NM - Not Measured
14:31	200 mL/min	6.92	-117.1	0.00	823	10.0	NM	3.30	Clear	13.03	-0.21	
14:34	200 mL/min	6.92	-117.5	0.0	822	10.0	NM	2.97	Clear	13.03	-0.21	
												Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date:02/12/2024	Time:14:37	Water Level:13.03FT TOC	pH (S.U.):6.92	ORP (mV):-117	Diss. Oxygen (ppm):0.00	Spec. Cond (µS/cm):822
Temperature:10.0 °C	TDS (ppm): NM	Turbidity (NTU):2.88	Color/Appearance: Clear	Odor:None		Final Volume Removed:0.75Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean-OU3	**Project No.: 300-082.0041**	**Date: 02/12/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel:EAM, BDT	**Well #:CW-13A (OLN-CW13A-F007)**	**Static Water Level:5.37FT TOC**	

Depth to Top of Screen: NM	**Well Diameter (in.):2**	**Total Well Depth: 34.04 FT TOC**	**Purge Method: Pump**	**Time of Purge Initiation: NM**
☐ dedicated	**Date/Time of Pump Installation:**	**Pump Type: Peristaltic**	**Pump Depth: NM**	**Water Level after Pump Installation: NM**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (ppm)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
14:17	250 mL/min	6.17	202.4	1.89	346	9.7	NM	88.46	Cloudy	6.89	1.52
14:22	250 mL/min	6.14	196.6	0.23	348	9.5	NM	605	Cloudy	7.15	1.78
14:27	250 mL/min	6.14	165.6	0.09	348	9.6	NM	44.75	Slightly Cloudy	7.33	1.96
14:32	175 mL/min	6.14	71.5	0.00	349	9.5	NM	130	Slightly Cloudy	7.45	2.08
14:37	175 mL/min	6.12	37	0.08	348	9.5	NM	100	Slightly Cloudy	7.45	2.08
14:42	175 mL/min	6.12	23.8	0.09	348	9.5	NM	73	Slightly Cloudy	7.45	2.08
14:47	175 mL/min	6.11	18.4	0.11	347	9.5	NM	72	Slightly Cloudy	7.45	2.08

Other Field Measurements:pH Alk.=0 ppm
Total Alk.= 69 ppm

Notes:
NM - Not Measured

Deviations from SAP:
Turbidity did not stabilize within 10%.

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date:02/12/2024	Time:14:52	Water Level:7.45FT TOC	pH (S.U.):6.10	ORP (mV):16.4	Diss. Oxygen (ppm):0.12	Spec. Cond (µS/cm):345
Temperature:9.5 °C	TDS (ppm): NM	Turbidity (NTU):80.5	Color/Appearance: Slightly Cloudy	Odor:None		Final Volume Removed:2.0Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0041**	**Date: 02/13/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel:EAM, BDT	**Well #:RU-10**	**Static Water Level:8.86FT TOC**	

Depth to Top of Screen: NM	**Well Diameter (in.):0.5**	**Total Well Depth: 12.65 FT TOC**	**Purge Method: Pump**	**Time of Purge Initiation:NM**
☐ dedicated	**Date/Time of Pump Installation:**	**Pump Type: Peristaltic**	**Pump Depth: NM**	**Water Level after Pump Installation: NM**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp.	TDS (ppm)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)	Other Field Measurements:
												Notes:
												Deviations from SAP: Not Sampled; Amendment in well.

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date:	Time:	Water Level: NM	pH (S.U.): NM	ORP (mV): NM	Diss. Oxygen (ppm): NM	Spec. Cond (µS/cm): NM
Temperature: NM	TDS (ppm): NM	Turbidity (NTU): NM	Color/Appearance:	Odor:NM		Final Volume Removed: NM

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0041**	**Date: 02/13/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel:EAM, BDT	**Well #:RU-19 (OLN-RU020-F007)**	**Static Water Level:7.75FT TOC**	

Depth to Top of Screen: NM	**Well Diameter (in.):2**	**Total Well Depth: 19.48 FT TOC**	**Purge Method: Pump**	**Time of Purge Initiation:NM**
☐ **dedicated**	**Date/Time of Pump Installation:**	**Pump Type: Peristaltic**	**Pump Depth: NM**	**Water Level after Pump Installation: NM**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (ppm)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
13:00	175 mL/min	5.70	73.8	2.28	4140	19	NM	22.5	Slightly Cloudy	8.10	0.35
13:05	175 mL/min	5.89	-137	0.23	2377	9.6	NM	8.60	Clear	8.25	0.5
13:10	175 mL/min	6.21	-167	0.09	1911	9.5	NM	7.10	Clear	8.25	0.5
13:15	175 mL/min	6.33	-184	0	1624	9.3	NM	17.0	Clear	8.27	0.52
13:20	175 mL/min	6.73	-193	0.05	1544	9.2	NM	6.03	Clear	8.27	0.52
13:25	175 mL/min	6.40	-200	0.08	1508	9.2	NM	6.32	Clear	8.27	0.52

Other Field Measurements:pH Alk.= 0 ppm
Total Alk.=375 ppm

Notes:
NM - Not Meausured

Deviations from SAP:
pH did not stabilize within 0.1 S.U.
Turbidity did not stabilize within 10% or less than 5 NTU.

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date:02/13/2024	Time:13:30	Water Level:8.27FT TOC	pH (S.U.):6.42	ORP (mV):-203	Diss. Oxygen (ppm):0.09	Spec. Cond (µS/cm):1475
Temperature:9.3 °C	TDS (ppm): NM	Turbidity (NTU):4.78	Color/Appearance: Clear	Odor:None		Final Volume Removed:2.0Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0041**	**Date: 02/13/2024**
Personnel:EAM, BDT	**Well #:RU-20 (OLN-RU020-F007)**	**Static Water Level:10.78FT TOC**

Civil & Environmental Consultants of New York, Inc.

Depth to Top of Screen: NM	**Well Diameter (in.):2**	**Total Well Depth: 38.40 FT TOC**	**Purge Method: Pump**

Time of Purge Initiation:NM

☐ **dedicated**	**Date/Time of Pump Installation:**	**Pump Type: Peristaltic**

Pump Depth: NM

Water Level after Pump Installation: NM

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (ppm)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
12:00	175 mL/min	6.35	-150	0.67	576	10.5	NM	7.13	Clear	10.94	0.16
12:05	175 mL/min	6.57	-174	0.17	576	10.6	NM	15.5	Clear	11.05	0.27
12:10	175 mL/min	6.68	-186	0	605	10.5	NM	6.32	Clear	11.05	0.27
12:15	175 mL/min	6.74	-195	0.16	642	10.6	NM	8.55	Clear	11.05	0.27
12:20	175 mL/min	6.79	-201	0.11	702	10.6	NM	6.54	Clear	11.07	0.29

Other Field Measurements:pH Alk.=0 ppm
Total Alk.=501 ppm

Notes:
NM - Not Measured

Deviations from SAP:
Specific conductivity did not stabilize within 3%.
Turbidity did not stabilize within 10% or less than 5 NTU.

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date:02/13/2024	Time:12:25	Water Level:11.10FT TOC	pH (S.U.):6.82	ORP (mV):-204	Diss. Oxygen (ppm):0.14	Spec. Cond (µS/cm):702
Temperature:10.5 °C	TDS (ppm): NM	Turbidity (NTU):3.59	Color/Appearance: Clear	Odor:Sulfur	Final Volume Removed:2.5Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3		**Project No.: 300-082.0041**		**Date: 02/13/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel:EAM, BDT		**Well #:RU-21 (OLN-RU021-F007)**		**Static Water Level:7.5FT TOC**	
Depth to Top of Screen: NM	**Well Diameter (in.):2**	**Total Well Depth: 19.25 FT TOC**	**Purge Method: Pump**		**Time of Purge Initiation:NM**
☐ dedicated	**Date/Time of Pump Installation:**	**Pump Type: Peristaltic**	**Pump Depth: NM**		**Water Level after Pump Installation: NM**
LNAPL Present?: No	**LNAPL Depth: NM**	**DNAPL Present?: No**	**DNAPL Depth: NM**		

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (ppm)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
14:48	175 mL/min	6.13	-131	0.88	1949	9.3	NM	110	Cloudy	8.45	0.95
14:53	175 mL/min	6.15	-130.8	0.58	1901	9.3	NM	104	Slightly Cloudy	9.15	1.65
14:58	175 mL/min	6.18	-138.3	0.39	1793	9.3	NM	115	Clear	9.57	2.07
15:03	175 mL/min	6.21	-144	0.31	1705	9.2	NM	83	Clear	9.65	2.15
15:08	175 mL/min	6.27	-154	0.23	1551	9.2	NM	52.6	Slightly Cloudy	9.65	2.15
15:13	175 mL/min	6.31	-161	0.17	1480	9.4	NM	45.9	Slightly Cloudy	9.62	2.12
15:18	175 mL/min	6.31	-161	0.16	1481	9.3	NM	44.2	Slightly Cloudy	9.62	2.12
15:23	175 mL/min	6.33	-162	0.12	1438	9.3	NM	39.2	Slightly Cloudy	9.59	2.09
15:28	175 mL/min	6.34	-164	0.07	1426	9.3	NM	39	Clear	9.55	2.05
15:33	175 mL/min	6.34	-160	0.01	1477	9.3	NM	37	Clear	9.55	2.05

Other Field Measurements:pH Alk.= 0 ppm
Total Alk.=735 ppm

Notes:
OLN-MS001-F007 1540
OLN-MSD001-F007 1545

Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date:02/13/2024	Time:15:38	Water Level:9.55FT TOC	pH (S.U.):6.34	ORP (mV):-159	Diss. Oxygen (ppm):0.01	Spec. Cond (µS/cm):1458
Temperature:9.4 °C	TDS (ppm): NM	Turbidity (NTU):43.7	Color/Appearance: Clear	Odor:None		Final Volume Removed:3.0Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0041**	**Date: 02/13/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel:EAM, BDT	**Well #:UA-2 (OLN-UA002-F007)**	**Static Water Level:7.26FT TOC**	

Depth to Top of Screen: NM	**Well Diameter (in.):2**	**Total Well Depth: 18.85 FT TOC**	**Purge Method: Other Peristaltic pump**	**Time of Purge Initiation:NM**
☐ **dedicated**	**Date/Time of Pump Installation:**	**Pump Type:**	**Pump Depth: NM**	**Water Level after Pump Installation: NM**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (ppm)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
16:33	200 mL/min	6.07	27.2	0.99	342	8.9	NM	6.63	Clear	7.35	0.09
16:38	175 mL/min	5.96	17.0	0.44	342	8.9	NM	6.28	Clear	7.38	0.12
16:43	175 mL/min	5.89	-0.6	0.23	342	9	NM	4.39	Clear	7.40	0.14
16:48	175 mL/min	5.86	-6.8	0.18	341	9.0	NM	2.06	Clear	7.40	0.14
16:53	175 mL/min	5.85	-7.3	0.16	341	8.9	NM	5.09	Clear	7.40	0.14
16:58	175 mL/min	5.84	-6.9	0.18	340	8.9	NM	2.39	Clear	7.40	0.14

Other Field Measurements:pH Alk.=0 ppm
Total Alk.=60 ppm

Notes:
NM - Not Measured

Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date:02/13/2024	Time:17:03	Water Level:7.40FT TOC	pH (S.U.):5.83	ORP (mV):-1.0	Diss. Oxygen (ppm):0.22	Spec. Cond (µS/cm):337
Temperature:8.8 °C	TDS (ppm): NM	Turbidity (NTU):2.56	Color/Appearance: Clear	Odor:None	Final Volume Removed:2.0Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0041**	**Date: 02/14/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel:EAM, BDT	**Well #:UA-3 (OLN-UA003-F007)**	**Static Water Level:6.47FT TOC**	

Depth to Top of Screen: NM	**Well Diameter (in.):2**	**Total Well Depth: 19.75 FT TOC**	**Purge Method: Pump**	**Time of Purge Initiation:NM**
☐ dedicated	**Date/Time of Pump Installation:**	**Pump Type: Peristaltic**	**Pump Depth: NM**	**Water Level after Pump Installation: NM**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (ppm)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
08:15	175 mL/min	7.43	171	2.51	169	7.9	NM	48.7	Cloudy	6.90	0.43
08:20	175 mL/min	6.77	184	1.35	160	8.1	NM	40	Slightly Cloudy	7.95	1.48
08:25	175 mL/min	6.48	192	1.09	159	8.3	NM	39.3	Clear	7.25	0.78
08:30	150 mL/min	6.23	180	0.94	153	8.5	NM	38.7	Clear	7.35	0.88
08:35	150 mL/min	6.03	162	0.81	144	8.4	NM	39.2	Other	7.55	1.08
08:40	150 mL/min	5.88	149	0.72	133	8.3	NM	39.0	Clear	7.65	1.18
08:45	150 mL/min	5.78	134	0.64	131	8.5	NM	32.9	Clear	7.67	1.2
08:50	150 mL/min	5.71	116	0.55	126	8.4	NM	30.2	Clear	7.72	1.25
08:55	150 mL/min	5.65	67	0.49	126	8.6	NM	31	Clear	7.65	1.18

Other Field Measurements:pH Alk.=0 ppm
Total Alk.= 60 ppm

Notes:
NM - Not Measured

Deviations from SAP:
ORP did not stabilize within 10 mV.

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date:02/14/2024	Time:09:00	Water Level:7.80FT TOC	pH (S.U.):5.61	ORP (mV):-17.6	Diss. Oxygen (ppm):0.51	Spec. Cond (µS/cm):128
Temperature:8.6 °C	TDS (ppm): NM	Turbidity (NTU):38.4	Color/Appearance: Clear	Odor:None		Final Volume Removed:2.5Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0041**	**Date: 02/13/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel:BDT	**Well #:RU-11 (OLN-RU011-F007)**	**Static Water Level:9.7FT TOC**	

Depth to Top of Screen: NM	**Well Diameter (in.):0.5**	**Total Well Depth: 12.40 FT TOC**	**Purge Method: Pump**

Time of Purge Initiation:06/07/2024 13:05

☐ dedicated	**Date/Time of Pump Installation:02/13/2024 13:03**	**Pump Type: Peristaltic**

Pump Depth: 12.40 FT TOC

Water Level after Pump Installation: NM

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (ppm)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
13:08	100 mL/min	6.36	225.1	8.00	191.7	7.4	NM	122.5	Slightly Cloudy	NM	NM
13:11	100 mL/min	6.72	126.5	6.82	392.9	7.6	NM	150.82	Slightly Cloudy	NM	NM
13:14	100 mL/min	6.83	102.2	6.63	469.6	7.6	NM	85.03	Slightly Cloudy	NM	NM
13:17	100 mL/min	6.88	87.7	6.81	502	7.7	NM	45.78	Clear	NM	NM
13:20	100 mL/min	6.92	79.7	7.09	517	7.8	NM	21.79	Clear	NM	NM
13:23	100 mL/min	6.94	75.3	7.22	523	7.9	NM	12.84	Clear	NM	NM
13:26	100 mL/min	6.95	72.1	7.35	527	7.7	NM	8.50	Clear	NM	NM
13:29	100 mL/min	6.97	70.2	7.48	526	7.7	NM	6.54	Clear	NM	NM

Other Field Measurements:P Alk: 0.0 ppm
T Alk: 291 ppm

Notes:

Deviations from SAP:
Unable to gauge water level during purging due to small diamter of well.
Turbidity did not stabilize within 10%.

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date:02/13/2024	Time:13:32	Water Level: NM	pH (S.U.):6.98	ORP (mV):68.2	Diss. Oxygen (ppm):7.66	Spec. Cond (µS/cm):524

Temperature:7.7 °C	TDS (ppm): NM	Turbidity (NTU):6.44	Color/Appearance: Clear	Odor:None	Final Volume Removed:0.5Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0041**	**Date: 02/13/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel:BDT	**Well #:RU-15 (OLN-RU015-F007)**	**Static Water Level:6.52FT TOC**	
Depth to Top of Screen: NM	**Well Diameter (in.):0.5**	**Total Well Depth: 15.00 FT TOC**	**Purge Method: Pump**
Time of Purge Initiation:06/07/2024 15:24			
☐ **dedicated**	**Date/Time of Pump Installation:02/13/2024 15:21**	**Pump Type: Peristaltic**	**Pump Depth: NM**
Water Level after Pump Installation: NM			

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (ppm)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
15:27	100 mL/min	5.88	41.5	2.35	259.2	6.6	NM	61.04	Clear	NM	NM
15:30	100 mL/min	5.89	53.0	0.55	283.8	7.2	NM	15.18	Clear	NM	NM
15:33	100 mL/min	5.90	55.4	0.25	291.7	7.4	NM	8.36	Clear	NM	NM
15:36	100 mL/min	5.90	55.6	0.33	294.3	7.4	NM	6.41	Clear	NM	NM
15:39	100 mL/min	5.93	53.7	0.34	295.5	7.3	NM	5.02	Clear	NM	NM
15:42	100 mL/min	5.95	52.5	0.32	296.4	7.3	NM	5.34	Clear	NM	NM

Other Field Measurements:P Alk: 0.00 ppm
T Alk: 63 ppm

Notes:
OLN-FD001-D007 collected at 2200

NM - Not Measured

Deviations from SAP:Unable to gauge well while purging due to small diameter of well.

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date:02/13/2024	Time:15:45	Water Level: NM	pH (S.U.):5.96	ORP (mV):50.9	Diss. Oxygen (ppm):0.30	Spec. Cond (µS/cm):296.7
Temperature:7.5 °C	TDS (ppm): NM	Turbidity (NTU):5.38	Color/Appearance: Clear	Odor:None	Final Volume Removed:0.75Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0041**	**Date: 02/13/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel:BDT	**Well #:RU-16 (OLN-RU016-F007)**	**Static Water Level:6.78FT TOC**	
Depth to Top of Screen: NM	**Well Diameter (in.):2**	**Total Well Depth: 17.18 FT TOC**	**Purge Method: Pump**
Time of Purge Initiation:06/07/2024 16:40			
☐ **dedicated**	**Date/Time of Pump Installation:02/13/2024 16:37**	**Pump Type: Peristaltic**	**Pump Depth: NM**
Water Level after Pump Installation: 6.85 FT TOC			

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (ppm)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
16:42	100 mL/min	5.88	133.2	2.10	458.7	6.6	NM	13.27	Clear	7.20	0.42
16:45	100 mL/min	5.92	132.1	0.50	462.3	6.9	NM	11.68	Clear	7.20	0.42
16:48	100 mL/min	5.92	131.3	0.19	462.5	7.0	NM	12.46	Clear	7.20	0.42
16:51	100 mL/min	5.92	130.8	0.07	463.4	6.8	NM	11.37	Clear	7.20	0.42
16:54	100 mL/min	5.92	129.3	0.07	463.7	6.7	NM	11.18	Clear	7.20	0.42
16:57	100 mL/min	5.92	127.2	0.03	463	6.8	NM	11.32	Clear	7.20	0.42

Other Field Measurements:P Alk: 0.0 ppm
T Alk: 75 ppm

Notes:
NM - Not Measured

Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date:02/13/2024	Time:17:00	Water Level:7.20FT TOC	pH (S.U.):5.91	ORP (mV):126.3	Diss. Oxygen (ppm):0.01	Spec. Cond (µS/cm):462.4
Temperature:6.8 °C	TDS (ppm): NM	Turbidity (NTU):11.26	Color/Appearance: Clear	Odor:None		Final Volume Removed:1Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0041**	**Date: 02/13/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel:BDT	**Well #:RU-27A (OLN-RU027A-F007)**	**Static Water Level:7.23FT TOC**	

Depth to Top of Screen: NM	**Well Diameter (in.):2**	**Total Well Depth: 17.80 FT TOC**	**Purge Method: Pump**	**Time of Purge Initiation:06/07/2024 14:18**
☐ **dedicated**	**Date/Time of Pump Installation:02/13/2024 14:16**	**Pump Type: Peristaltic**	**Pump Depth: NM**	**Water Level after Pump Installation: 7.25 FT TOC**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (ppm)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
14:20	100 mL/min	6.17	-18.3	2.80	827	8.6	NM	31.52	Clear	7.39	0.16
14:23	100 mL/min	6.13	-34.3	0.42	839	8.8	NM	28.89	Clear	7.40	0.17
14:26	100 mL/min	6.14	-46.9	0.06	844	8.8	NM	29.75	Clear	7.40	0.17
14:29	100 mL/min	6.14	-52.9	0.07	848	8.8	NM	26.57	Clear	7.40	0.17
14:32	100 mL/min	6.15	-59.1	0.09	855	8.7	NM	26.33	Clear	7.40	0.17
14:35	100 mL/min	6.15	-63.1	0.07	858	8.8	NM	26.45	Clear	7.40	0.17
14:38	100 mL/min	6.14	-65.9	0.07	859	8.8	NM	26.87	Clear	7.40	0.17

Other Field Measurements:P Alk: 0.0 ppm
T Alk: 381 ppm

Notes:
NM - Not Measured

Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date:02/13/2024	Time:14:41	Water Level:7.14FT TOC	pH (S.U.):6.17	ORP (mV):-67.5	Diss. Oxygen (ppm):0.07	Spec. Cond (µS/cm):864
Temperature:8.6 °C	TDS (ppm): NM	Turbidity (NTU):27.27	Color/Appearance: Clear	Odor:None		Final Volume Removed:1Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0041**	**Date: 02/13/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel:BDT	**Well #:RU-28 (OLN-RU028-F007)**	**Static Water Level:6.59FT TOC**	

Depth to Top of Screen: NM	**Well Diameter (in.):2**	**Total Well Depth: 17.93 FT TOC**	**Purge Method: Pump**	**Time of Purge Initiation:06/07/2024 12:05**
☐ dedicated	**Date/Time of Pump Installation:02/13/2024 12:05**	**Pump Type: Peristaltic**	**Pump Depth: NM**	**Water Level after Pump Installation: 6.59 FT TOC**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (ppm)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
12:09	100 mL/min	6.13	233.9	6.81	204.4	8.0	NM	6.47	Clear	6.82	0.23
12:12	100 mL/min	6.10	235.5	4.93	196.7	7.9	NM	5.31	Clear	6.98	0.39
12:15	100 mL/min	6.09	236.3	4.73	196.5	7.8	NM	5.19	Clear	7.03	0.44
12:18	100 mL/min	6.09	237.1	4.68	196.7	7.6	NM	6.24	Clear	7.05	0.46
12:21	100 mL/min	6.09	237.8	4.66	196.9	7.9	NM	6.87	Clear	7.06	0.47
12:24	100 mL/min	6.08	238.9	4.58	197.1	7.8	NM	5.88	Clear	7.06	0.47

Other Field Measurements:P Alk: 0.0 ppm
T Alk: 72 ppm

Notes:
NM - Not Measured

Deviations from SAP:
Turbidity did not stabilize within 10%.

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date:02/13/2024	Time:12:27	Water Level:7.06FT TOC	pH (S.U.):6.08	ORP (mV):239	Diss. Oxygen (ppm):4.56	Spec. Cond (µS/cm):197.8
Temperature:7.5 °C	TDS (ppm): NM	Turbidity (NTU):5.65	Color/Appearance: Clear	Odor:None		Final Volume Removed:0.5Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0041**	**Date: 02/13/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel:BDT	**Well #:18M (OLN-WW018M-F007)**	**Static Water Level: NM**	

Depth to Top of Screen: NM	**Well Diameter (in.): NM**	**Total Well Depth: NM**	**Purge Method: Spigot**	**Time of Purge Initiation:NM**
☐ dedicated	**Date/Time of Pump Installation:**	**Pump Type:**	**Pump Depth: NM**	**Water Level after Pump Installation: NM**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp.	TDS (ppm)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)	**Other Field Measurements:**
												Palk: 0.00 ppm
												Talk: 153 ppm
												Notes:
												NM - Not Measured
												Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date:02/13/2024	Time:08:00	Water Level: NM	pH (S.U.):7.45	ORP (mV):216.3	Diss. Oxygen (ppm):4.51	Spec. Cond (µS/cm):537
Temperature:11.8 °C	TDS (ppm): NM	Turbidity (NTU):0.26	Color/Appearance: Clear	Odor:None		Final Volume Removed:1Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0041**	**Date: 02/14/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel:BDT	**Well #:RU-8 (OLN-RU008-F007)**	**Static Water Level:6.77FT TOC**	

Depth to Top of Screen: NM	**Well Diameter (in.):0.5**	**Total Well Depth: 17.93 FT TOC**	**Purge Method: Pump**	**Time of Purge Initiation:06/07/2024 07:58**
☐ dedicated	**Date/Time of Pump Installation:02/14/2024 07:50**	**Pump Type: Peristaltic**	**Pump Depth: NM**	**Water Level after Pump Installation: NM**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (ppm)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
08:01	100 mL/min	6.93	171.9	1.80	649	5.8	NM	252.3	Cloudy	NM	NM
08:04	100 mL/min	6.97	168.7	1.09	658	6.0	NM	291.3	Cloudy	NM	NM
08:07	100 mL/min	7.00	166.1	0.89	671	5.2	NM	215.00	Cloudy	NM	NM
08:10	100 mL/min	7.00	164.0	0.88	679	5.7	NM	147.56	Slightly Cloudy	NM	NM
08:13	100 mL/min	7.01	163.4	0.93	681	5.5	NM	112.60	Slightly Cloudy	NM	NM
08:16	100 mL/min	7.01	162.4	1.04	685	5.9	NM	83.13	Slightly Cloudy	NM	NM
08:19	100 mL/min	7.00	161.7	1.05	689	6.3	NM	60.22	Slightly Cloudy	NM	NM
08:22	100 mL/min	7.00	161.2	1.04	690	6.5	NM	45.20	Clear	NM	NM
08:25	100 mL/min	7.00	160.7	1.04	695	6.1	NM	23.21	Clear	NM	NM
08:28	100 mL/min	6.99	160.3	0.96	695	6.6	NM	24.60	Clear	NM	NM

Other Field Measurements:P Alk: 0.0 ppm
T Alk: 240 ppm

Notes:
Collected OLN-FD002-D007 @ 2200

NM - Not Measured

Deviations from SAP:
Unable to gauge while purging due to small well diameter.

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date:02/14/2024	Time:08:31	Water Level: NM	pH (S.U.):6.99	ORP (mV):160.1	Diss. Oxygen (ppm):0.97	Spec. Cond (µS/cm):697
Temperature:6.6 °C	TDS (ppm): NM	Turbidity (NTU):23.39	Color/Appearance: Clear	Odor:None		Final Volume Removed:1.5Gallons

APPENDIX C
NINE MONTH SAMPLING RECORDS

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3 9-Month Sampling						**Project No.: 300-082.0043**			**Date: 5/28/24**		Civil & Environmental Consultants of New York, Inc.	
Personnel: LDC						**Total Depth:**						
Depth to Top of Screen: NM						**Well Diameter (in.): 0.5**	**Date/Time of Pump Installation: 5/28/24 1532**			**Permanent?: No**	**Pump Type: Peristatic**	
Well #: RU-9			**Static Water Level: 7.60**			**Pump Depth: 14 ft btoc**			**Water Level after Pump Installation: NM**			**Time of Purge Initiation: 1535**
Time	**Flow Rate (mL/min)**	**Turbidity (NTU)**	**pH (S.U.)**	**Cl (mg/L)**	**ORP (mV)**	**Diss. Oxygen (ppm)**	**Spec. Cond. (µS/cm)**	**Appearance**	**Temp (°C)**	**TDS (ppm)**	**Water Level (ft)**	**Other Field Measurements:** pH Alk.= 0 ppm Total Alk.= 60 ppm
1538	225	NM	9.86	NM	-148	4.00	339	clear, slightly orange	18.09	218	NM	
1541	200	36.6	9.14	NM	-111	3.81	323	clear, slightly orange	18.40	210	NM	
1545	200	35.1	8.62	NM	216	3.74	328	clear, slightly orange	18.31	213	NM	**Notes:**
1548	200	35.3	8.35	NM	227	3.72	333	clear, slightly orange	18.17	217	NM	NM - Not Measured
1551	200	32.0	8.08	NM	242	3.72	338	clear, slightly orange	18.05	220	NM	Sample ID: OLN-RU009-F008 CENSUS sample collected
1554	200	26.2	8.00	NM	250	3.74	340	clear, slightly orange	17.92	221	NM	OLN-FB001-B008 collected at 1653
1557	200	25.7	7.80	NM	262	3.75	344	clear, slightly orange	17.87	224	NM	
1600	200	24.9	7.78	NM	270	3.78	347	clear, slightly orange	17.74	226	NM	
1603	200	22.9	7.73	NM	276	3.75	351	clear, slightly orange	14.66	229	NM	**Deviations from SAP:**
												Well diameter is too small for water level and tubing. Water level not continuously recorded.

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 5/28/24	Time: 1606	Water Level: NM	pH (S.U.): 7.67	Cl (mg/L): NM	TDS (ppm): 234	Spec. Cond (µS/cm): 357
ORP (mV): 281	Diss. Oxygen (ppm): 3.72	Turbidity (NTU): 16.8	Odor: none			Volume Removed: 2.5 gal
Color/Appearance: clear, slightly orange						Temperature (°C): 17.6

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3 9-Month Sampling	**Project No.: 300-082.0043**	**Date: 5/29/24**	Civil & Environmental Consultants of New York, Inc.
Personnel: LDC, LJR	**Total Depth: 12.65 FT TOC**		
Depth to Top of Screen: NM	**Well Diameter (in.): 0.5**	**Date/Time of Pump Installation: 5/29/24 1620**	**Permanent? No** / **Pump Type: Peristaltic**
Well #: RU-10 / **Static Water Level: 6.85 FT TOC**	**Pump Depth: 16 FT TOC**	**Water Level after Pump Installation: 6.45 FT TOC**	**Time of Purge Initiation: 1659**

Time	Flow Rate (mL/min)	Turbidity (NTU)	pH (S.U.)	Cl (mg/L)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Appearance	Temp (°C)	TDS (ppm)	Water Level (ft)
1710	60	>1000	6.05	NM	-13	7.10	715	brown cloudy	16.13	458	NM
1712	DRY @ <0.25 gal	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

Other Field Measurements:
pH Alk.= NM
Total Alk.= NM

Notes:

NM - Not Measured

Sample ID: OLN-RU010-F008
Soy emulsion on WL probe; thick slurry
Significant air in line as well purged dry

OLN-FB002-B008 collected @ 1725

Deviations from SAP:

Well purged dry. Insufficient volume to collect field readings after well recovered; insufficient volume to collect CENSUS sample and COD.

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 5/29/24	Time: 1750	Water Level: NM	pH (S.U.):NM	Cl (mg/L): NM	TDS (ppm): NM / Spec. Cond (µS/cm): NM
ORP (mV): NM	Diss. Oxygen (ppm): NM	Turbidity (NTU): NM	Odor: none		Volume Removed: 0.25 gal
Color/Appearance: cloudy, light brown					Temperature (°C): NM

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3 9-Month Sampling						**Project No.: 300-082.0043**			**Date: 5/29/24**		Civil & Environmental Consultants of New York, Inc.	
Personnel: LDC, LJR						**Total Depth: 15.00 FT TOC**						
Depth to Top of Screen: NM						**Well Diameter (in.): 0.50**	**Date/Time of Pump Installation: 5/29/24 0800**			**Permanent?: No**	**Pump Type: Peristaltic**	
Well #: RU-15			**Static Water Level: 6.32 FT TOC**			**Pump Depth: 13 FT TOC**			**Water Level after Pump Installation: NM**			**Time of Purge Initiation: 0801**

Time	Flow Rate (mL/min)	Turbidity (NTU)	pH (S.U.)	Cl (mg/L)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Appearance	Temp (°C)	TDS (ppm)	Water Level (ft)	Other Field Measurements:
0806	175	903.0	4.82	NM	170	0.21	185	turbid red-ish	13.97	119	NM	pH Alk.= 0 ppm Total Alk.= 100 ppm
0809	150	135.0	4.64	NM	174	0.51	161	slightly cloudy	13.98	105	NM	
0812	150	83.3	4.52	NM	180	0.00	133	slightly cloudy	13.81	187	NM	**Notes:**
0815	150	63.3	4.49	NM	187	0.17	145	slightly cloudy	13.76	95	NM	NM - Not Meausured
0818	150	40.0	4.47	NM	193	0.30	116	slightly cloudy	13.70	75	NM	Sample ID: OLN-RU0015-F008 OLN-EB001-E008 collected 5/30/24 @ 1630 on bladder pumps
0821	150	32.5	4.44	NM	204	0.47	112	slightly cloudy	13.64	72	NM	
0824	150	29.6	4.44	NM	211	1.34	107	slightly cloudy	13.61	71	NM	NO CENSUS sample
0827	150	31.7	5.56	NM	227	3.54	267	clear	13.60	58	Pump stopped	
0830	150	39.3	5.93	NM	274	0.11	177	clear	13.28	175	NM	**Deviations from SAP:**
0833	150	22.0	5.99	NM	269	0.10	169	clear	13.37	171	NM	Well diameter is too small for water level and tubing. Water level not continuously recorded.
0836	150	26.1	5.95	NM	269	0.03	169	clear	13.52	169	NM	Turbidity did not stabilize within 10%.
0839	150	31.4	5.96	NM	268	0.08	172	clear	13.64	170	NM	

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 5/29/24	Time: 0842	Water Level: NM	pH (S.U.): 6.02	Cl (mg/L): NM	TDS (ppm): 177	Spec. Cond (µS/cm): 270
ORP (mV): 159	Diss. Oxygen (ppm): 0.00	Turbidity (NTU): NM	Odor: none			Volume Removed: 2 gal
Color/Appearance: clear						Temperature (°C): 13.89

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3 9-Month Sampling						**Project No.: 300-082.0043**			**Date: 5/29/24**			
Personnel: LDC, LJR						**Total Depth: 19.48 FT TOC**						
Depth to Top of Screen: NM						**Well Diameter (in.): 2**	**Date/Time of Pump Installation: 5/29/24 1640**			**Permanent? No**	**Pump Type: Bladder**	
Well #: RU-19			**Static Water Level: 7.83 FT TOC**			**Pump Depth: 18 FT TOC**			**Water Level after Pump Installation: 7.55 FT TOC**			**Time of Purge Initiation: 1640**
Time	**Flow Rate (mL/min)**	**Turbidity (NTU)**	**pH (S.U.)**	**Cl (mg/L)**	**ORP (mV)**	**Diss. Oxygen (ppm)**	**Spec. Cond. (µS/cm)**	**Appearance**	**Temp (°C)**	**TDS (ppm)**	**Water Level (ft)**	**Other Field Measurements:** pH Alk.= 0 ppm Total Alk.= 620 ppm
1647	230	>1000	6.45	NM	-10	3.73	2380	gray cloudy	16.40	1610	7.95	
1652	230	>1000	6.67	NM	-34	5.30	2160	gray cloudy	15.35	1410	8.10	
1655	230	>1000	6.71	NM	-45	5.85	2100	gray cloudy	13.93	1310	8.15	**Notes:**
1658	230	>1000	6.71	NM	-48	5.84	1980	gray cloudy	14.54	1260	8.20	NM - Not Measured
1701	230	>1000	6.74	NM	-55	5.22	1900	gray cloudy	14.83	1200	8.21	Sample ID: OLN-RU019-F008
1704	230	981	6.75	NM	-57	5.13	1870	gray cloudy	14.81	1180	8.20	
1707	230	828	6.75	NM	-59	5.04	1810	gray cloudy	14.74	1160	8.20	
1710	230	767	6.75	NM	-60	4.93	1720	gray cloudy	14.60	1110	8.20	
1713	230	747	6.74	NM	-60	4.77	1650	gray cloudy	14.46	1050	8.20	**Deviations from SAP:**
1716	230	820	6.75	NM	-59	4.55	1620	gray cloudy	14.02	1060	8.20	
1719	230	770	6.75	NM	-59	4.54	1620	gray cloudy	13.83	1040	8.20	

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 5/29/24	Time: 1720	Water Level: 8.20	pH (S.U.): 6.76	Cl (mg/L): NM	TDS (ppm): 1,020	Spec. Cond (µS/cm): 1,570
ORP (mV): -59	Diss. Oxygen (ppm): 4.42	Turbidity (NTU): 767	Odor: none			Volume Removed: --
Color/Appearance: cloudy, gray						Temperature (°C): 13.67

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3 9-Month Sampling						**Project No.: 300-082.0043**			**Date: 5/29/24**			
Personnel: LDC, LJR						**Total Depth: 38.40 FT TOC**						**Civil & Environmental Consultants of New York, Inc.**
Depth to Top of Screen: NM						**Well Diameter (in.): 2**		**Date/Time of Pump Installation: 5/29/24 1402**			**Permanent? No**	**Pump Type: Bladder**
Well #: RU-20			**Static Water Level: 10.04 FT TOC**			**Pump Depth: 18 FT TOC**			**Water Level after Pump Installation: 10.35 FT TOC**			**Time of Purge Initiation: 1410**

Time	Flow Rate (mL/min)	Turbidity (NTU)	pH (S.U.)	Cl (mg/L)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Appearance	Temp (°C)	TDS (ppm)	Water Level (ft)	Other Field Measurements:
1413	450	46.6	7.26	NM	-225	8.09	686	cloudy	11.60	438	10.60	pH Alk.= 0 ppm Total Alk.= 248 ppm
1416	400	50.6	7.29	NM	-247	4.97	678	cloudy	12.07	429	10.58	
1419	375	48.5	7.28	NM	-251	4.33	639	cloudy	13.49	403	10.59	**Notes:**
1422	375	55.7	7.20	NM	-253	3.85	627	cloudy	14.34	396	10.58	NM - Not Measured
1425	375	84.7	7.25	NM	-258	3.52	627	cloudy	14.62	398	10.58	Sample ID: OLN-RU020-F008
1428	375	88.4	7.17	NM	-255	3.35	627	cloudy	14.74	405	10.59	
1431	375	90.5	7.18	NM	-257	2.45	641	cloudy	14.77	411	10.58	
1434	375	97.9	7.20	NM	-256	0.00	680	cloudy	14.73	435	10.58	
1437	375	100	7.26	NM	-254	0.00	711	cloudy	14.68	458	10.58	**Deviations from SAP:**
1440	375	102	7.28	NM	-255	0.00	734	cloudy	14.65	472	10.58	Specific conductivity did not stabilize within 3%.
1443	375	104	7.29	NM	-254	0.00	768	cloudy	14.61	495	10.58	
1446	375	106	7.29	NM	-253	0.00	814	cloudy	14.80	526	10.58	
1450	375	108	7.30	NM	-253	0.00	823	cloudy	14.54	534	10.58	
1453	375	111	7.29	NM	-251	0.00	867	cloudy	14.51	551	10.58	

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 5/29/24	Time: 1455	Water Level: 10.58	pH (S.U.): 7.30	Cl (mg/L): NM	TDS (ppm): 561	Spec. Cond (µS/cm): 875
ORP (mV): -250	Diss. Oxygen (ppm): 0.00	Turbidity (NTU): 112	Odor: slight odor			Volume Removed: 4.5 gal
Color/Appearance: cloudy/sheen						Temperature (°C): 14.52

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3 9-Month Sampling						**Project No.: 300-082.0043**			**Date: 5/29/24**			
Personnel: LDC, LJR						**Total Depth: 19.25 FT TOC**						Civil & Environmental Consultants of New York, Inc.
Depth to Top of Screen: NM						**Well Diameter (in.): 2**		**Date/Time of Pump Installation: 5/29/24 1522**		**Permanent? No**	**Pump Type: Bladder**	
Well #: RU-21			**Static Water Level: 7.33 FT TOC**			**Pump Depth: 17 FT TOC**			**Water Level after Pump Installation: 6.78 FT TOC**			**Time of Purge Initiation: 1525**

Time	Flow Rate (mL/min)	Turbidity (NTU)	pH (S.U.)	Cl (mg/L)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Appearance	Temp (°C)	TDS (ppm)	Water Level (ft)	Other Field Measurements:
1529	130	118	6.35	NM	-20	0.33	658	slightly cloudy	16.52	421	7.92	pH Alk.= 0 ppm Total Alk.= 304 ppm
1532	130	117	6.37	NM	-26	0.00	656	slightly cloudy	15.96	426	8.26	
1535	130	106	6.42	NM	-36	0.29	720	slightly cloudy	15.43	460	9.00	**Notes:**
1541	70	96.1	6.50	NM	-42	0.00	741	slightly cloudy	15.43	474	9.00	NM - Not Measured
1544	70	94.2	6.53	NM	-46	0.00	760	slightly cloudy	15.45	487	8.89	Sample ID: OLN-RU021-F008 OLN-FD0001-D008 collected @ 0700
1547	100	96.3	6.56	NM	-51	0.00	781	slightly cloudy	15.53	502	8.69	
1550	100	95.6	6.66	NM	-58	0.00	797	slightly cloudy	15.61	510	8.61	
1553	100	93.7	6.67	NM	-60	0.00	830	slightly cloudy	15.63	524	8.53	
1556	100	90.8	6.68	NM	-61	0.00	826	slightly cloudy	15.65	528	8.48	**Deviations from SAP:**
1559	100	89.0	6.70	NM	-62	0.00	839	slightly cloudy	15.70	535	8.39	
1602	100	88.9	6.70	NM	-62	0.00	815	slightly cloudy	15.72	530	8.35	
1605	100	84.3	6.71	NM	-63	0.00	841	slightly cloudy	15.72	535	8.32	
1608	100	84.0	6.73	NM	-63	0.00	845	slightly cloudy	15.73	536	8.29	

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 5/29/24	Time: 1611	Water Level: 8.25	pH (S.U.): 6.73	Cl (mg/L): NM	TDS (ppm): 537	Spec. Cond (µS/cm): 849
ORP (mV): -63	Diss. Oxygen (ppm): 0.00	Turbidity (NTU): 83.1	Odor: none			Volume Removed: 1.5 gal
Color/Appearance: slightly cloudy gray with fine particles; trace sheen						Temperature (°C): 15.72

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3 9-Month Sampling	**Project No.: 300-082.0043**	**Date: 5/29/24**	Civil & Environmental Consultants of New York, Inc.
Personnel: LDC, LJR	**Total Depth: 17.80 FT TOC**		
Depth to Top of Screen: NM	**Well Diameter (in.): 2**	**Date/Time of Pump Installation: 5/29/24 1352**	**Permanent? No** / **Pump Type: Bladder**
Well #: RU-27A / **Static Water Level: 7.29 FT TOC**	**Pump Depth: 16 FT TOC**	**Water Level after Pump Installation: 7.29 FT TOC**	**Time of Purge Initiation: 1356**

Time	Flow Rate (mL/min)	Turbidity (NTU)	pH (S.U.)	Cl (mg/L)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Appearance	Temp (°C)	TDS (ppm)	Water Level (ft)
1403	120	220	6.76	NM	-78	0.31	831	clear; bacteria odor	15.77	541	7.41
1406	225	58.7	6.72	NM	-74	0.21	835	clear; bacteria odor	16.13	536	7.42
1412	200	62.0	6.74	NM	-73	0.00	798	clear; bacteria odor	16.50	511	7.49
1415	200	58.5	6.71	NM	-69	0.00	801	clear; bacteria odor	16.43	513	7.49
1418	200	55.5	6.71	NM	-68	0.00	805	clear; bacteria odor	16.36	515	7.48
1421	200	56.1	6.69	NM	-65	0.00	806	clear; bacteria odor	16.24	516	7.45

Other Field Measurements:
pH Alk.= 0 ppm
Total Alk.= 400 ppm

Notes:

NM - Not Measured

Sample ID: OLN-RU27A-F008

Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 5/29/24	Time: 1421	Water Level: 7.45	pH (S.U.): 6.69	Cl (mg/L): NM	TDS (ppm): 516	Spec. Cond (µS/cm): 806
ORP (mV): -65	Diss. Oxygen (ppm): 0.00	Turbidity (NTU): 56.1	Odor: slight bacteria odor			Volume Removed: 1.5 gal
Color/Appearance: clear						Temperature (°C): 16.24

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3 9-Month Sampling						**Project No.: 300-082.0043**			**Date: 5/29/24**			
Personnel: LDC, LJR						**Total Depth: 17.80 FT TOC**						
Depth to Top of Screen: NM						**Well Diameter (in.): 2**	**Date/Time of Pump Installation: 5/29/24 1203**			**Permanent?: No**	**Pump Type: Bladder**	
Well #: RU-28			**Static Water Level: 6.49 FT TOC**			**Pump Depth: 15 FT TOC**			**Water Level after Pump Installation: 6.45 FT TOC**			**Time of Purge Initiation: 1206**

Time	Flow Rate (mL/min)	Turbidity (NTU)	pH (S.U.)	Cl (mg/L)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Appearance	Temp (°C)	TDS (ppm)	Water Level (ft)	Other Field Measurements:
1214	220	279	6.29	NM	226	7.91	178	clear	17.82	116	6.10	pH Alk.= 0 ppm Total Alk.= 75 ppm
1217	200	255	6.32	NM	241	6.58	174	cloudy	17.19	113	6.95	
1220	200	245	6.33	NM	257	6.05	106	cloudy	19.44	106	7.00	**Notes:**
1223	200	239	6.41	NM	259	6.06	162	cloudy	19.94	105	7.02	NM - Not Measured
1226	200	245	6.48	NM	264	6.16	163	cloudy	20.09	105	7.01	Sample ID: OLN-RU028-F008
1229	200	253	6.45	NM	268	6.08	160	cloudy	19.95	105	7.00	
1232	200	255	6.51	NM	271	6.37	164	cloudy	18.41	108	7.02	
												Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 5/29/24	Time: 1235	Water Level: 7.02	pH (S.U.): 6.53	Cl (mg/L): NM	TDS (ppm): 112	Spec. Cond (µS/cm): 172
ORP (mV): 276	Diss. Oxygen (ppm): 6.42	Turbidity (NTU): 256	Odor: none			Volume Removed: --
Color/Appearance: cloudy						Temperature (°C): 16.91

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3 9-Month Sampling	**Project No.: 300-082.0043**	**Date: 5/29/24**	Civil & Environmental Consultants of New York, Inc.
Personnel: LDC, LJR	**Total Depth: 18.85 FT TOC**		
Depth to Top of Screen: NM	**Well Diameter (in.): 2**	**Date/Time of Pump Installation: 5/29/24 1010**	**Permanent?: No** / **Pump Type: Bladder**
Well #: UA-2	**Static Water Level: 7.29 FT TOC**	**Pump Depth: 15 FT TOC**	**Water Level after Pump Installation: 7.29 FT TOC** / **Time of Purge Initiation: 1012**

Time	Flow Rate (mL/min)	Turbidity (NTU)	pH (S.U.)	Cl (mg/L)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Appearance	Temp (°C)	TDS (ppm)	Water Level (ft)
1019	270	7.1	5.98	NM	81	2.49	347	clear	12.48	226	7.41
1022	250	7.2	5.91	NM	71	0.92	346	clear	12.15	226	7.39
1025	290	7.3	5.86	NM	62	0.28	348	clear	12.02	226	7.43
1031	250	6.9	5.84	NM	51	0.10	350	clear	12.00	227	7.41
1034	250	6.6	5.82	NM	42	0.00	352	clear	11.98	229	7.40
1037	250	6.3	5.81	NM	30	0.00	353	clear	11.94	229	7.42
1040	250	5.9	5.81	NM	21	0.00	353	clear	11.90	230	7.40
1043	250	6.5	5.81	NM	9	0.00	355	clear	11.81	231	7.41
1046	250	4.9	5.81	NM	0	0.00	357	clear	11.77	232	7.41
1049	250	4.2	5.81	NM	-9	0.00	358	clear	11.73	233	7.42
1052	250	4.7	5.81	NM	-17	0.00	359	clear	11.70	234	7.41
1055	250	3.5	5.81	NM	-28	0.00	360	clear	11.69	234	7.43
1058	250	3.1	5.81	NM	-34	0.00	358	clear	11.70	233	7.42

Other Field Measurements:
pH Alk.= 0 ppm
Total Alk.= 44 ppm

Notes:

NM - Not Measured

Sample ID: OLN-UA002-F008
OLN-MD001-M008 & OLN-MS001-M008
Collected 5/29/24 @ 1010

NO CENSUS sample

Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 5/29/24	Time: 1101	Water Level: 7.42	pH (S.U.): 5.81	Cl (mg/L): NM	TDS (ppm): 231	Spec. Cond (µS/cm): 356
ORP (mV): -38	Diss. Oxygen (ppm): 0.00	Turbidity (NTU): 3.0	Odor: none			Volume Removed: 3.5 gal
Color/Appearance: clear						Temperature (°C): 11.59

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3 9-Month Sampling			**Project No.: 300-082.0043**	**Date: 5/29/24**	Civil & Environmental Consultants of New York, Inc.
Personnel: LDC, LJR			**Total Depth: N/A**		
Depth to Top of Screen: NM			**Well Diameter (in.):**	**Date/Time of Pump Installation:**	**Permanent?:** / **Pump Type: N/A**
Well #: WW18M	**Static Water Level: N/A**		**Pump Depth: N/A**	**Water Level after Pump Installation: N/A**	**Time of Purge Initiation: N/A**

Time	Flow Rate (mL/min)	Turbidity (NTU)	pH (S.U.)	Cl (mg/L)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Appearance	Temp (°C)	TDS (ppm)	Water Level (ft)
NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

Other Field Measurements:
pH Alk.= 0 ppm
Total Alk.= 130 ppm

Notes:

N/A - Not Applicable

Sample ID: OLN-WW18M-F008

Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 5/29/24	Time: 0915	Water Level: NM	pH (S.U.): 6.48	Cl (mg/L): NM	TDS (ppm): 347	Spec. Cond (µS/cm): 542
ORP (mV): 230	Diss. Oxygen (ppm): 3.80	Turbidity (NTU): 0.6	Odor:none			Volume Removed: N/A
Color/Appearance: clear						Temperature (°C): 13.64

APPENDIX D
NINE MONTH DATA SUMMARY REPORT

DATA SUMMARY REPORT

FOR THE

OPERABLE UNIT 3 REMEDY IMPLEMENTATION
NINE-MONTH PERFORMANCE MONITORING

AT THE PARCEL B PROPERTY
IN THE ALCAS SOURCE AREA
OLEAN WELL FIELD SUPERFUND SITE
OLEAN, NEW YORK

Prepared For:

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CEC NY Project 300-082

MARCH 2025

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1.0 INTRODUCTION

On September 30, 2014, the United States Environmental Protection Agency (U.S. EPA) issued a Record of Decision for Operable Unit 3 (OU3 ROD) in which it documented its selection of remedies for the known source areas at the Olean Well Field Superfund Site (Superfund Site), including a portion of the Superfund Site known as "Parcel B of the Alcas Source Area" (Parcel B).

In February 2016, a Consent Decree (CD) was filed amending and superseding the 1998 CD requiring) requiring Alcas Cutlery Corporation (now known as Cutco Corporation) and Aluminum Company of America (now known as Arconic Corporation) to perform implementation of the remedy for Parcel B that was selected in the OU3 ROD. Pursuant to Sections VI of the 2016 CD and 7.5 of the Statement of Work (SOW), a Remedial Action Work Plan (OU3 RAWP) and supporting deliverables were required to implement the required remedial action for the operable unit. Supporting deliverables for the OU3 RAWP included a Field Sampling Plan (FSP) and Quality Assurance Project Plan (QAPP). On June 8, 2022, the U.S. EPA approved the May 27, 2022, OU3 RAWP with supporting deliverables. The FSP provided a framework for field sampling activities including groundwater performance monitoring required to implement the OU3 remedy. The objective of the QAPP was to address sample analysis and data handling so that data quality is maintained and the work is accurately completed according to the requirements in the OU3 RAWP.

Between May 28 and 30, 2024, groundwater sampling activities were performed at nine existing monitoring wells and one sentinel monitoring well for the purpose of nine-month post-remedial action performance monitoring. Groundwater samples were submitted for laboratory analysis for the following:

- Volatile Organic Compounds (VOCs) (Tetrachlorethylene [PCE], Trichloroethylene [TCE], cis-1,2 Dichloroethylene [cis-1,2 DCE], trans-1,2 Dichloroethylene [trans-1,2 DCE], and Vinyl Chloride [VC]) – Method 8260C;
- Dissolved Gasses (Ethane, Ethene, and Methane) – Method RSK-175;
- Volatile Fatty Acids (Acetate, Butyrate, and Propionate) – ALS Environmental SOP for Organic Acids in Aqueous Matrices by High Performance Liquid Chromatoraphy;

- Chemical Oxygen Demand (COD) – Method 410.4;
- Sulfate- Method 300.0; and
- Dissolved Metals (Arsenic, Iron, and Manganese) – Method 6010C.

Groundwater samples from the sentinel monitoring wells were submitted for laboratory analysis of VOCs, COD, and dissolved metals. The laboratory inadvertently analyzed the sentinel well for sulfate. Analytical results were reviewed and validated for usability with respect to the OU3 QAPP.

Data validation included an evaluation of the following:

- Chain of Custody (COC) documentation;
- Holding times;
- Surrogate recoveries;
- Matrix spike/matrix spike dilutions precision and accuracy;
- Laboratory Control Sample (LCS) recoveries;
- Laboratory method blank and trip blank contamination;
- Gas chromatograph/mass spectrometer (GC/MS) instrument performance;
- Sample result verification and identification;
- Internal standard responses;
- Initial and continuing calibrations;
- Quantitation limits; and
- Data completeness.

The following sections of this report provide a narrative discussion of the checklist, including data review and validation procedures and results.

2.0 DATA REVIEW

Aqueous samples were collected from the OU3 wells on May 28 – 30, 2024. The subcontracted analytical laboratory for this project was ALS Environmental (ALS) located in Rochester, New York. Analytical results from these samples were reviewed and validated by ALS and CEC NY.

2.1 LABORATORY DATA - FIRST LEVEL REVIEW

The laboratory analyst generating the analytical data has the prime responsibility for the correctness and completeness of the data. All laboratory data was generated and reduced following protocols specified in the appropriate U.S. EPA SW846 methods or other approved method for the analysis being performed. The review conducted by the laboratory analyst constitutes the first level review. At a minimum, the primary analyst reviews the data package to confirm that:

- Analysis information is correct and complete;
- Appropriate test method was used;
- Analytical results are correct and complete (including calculations);
- Quality control (QC) samples are within established control limits;
- Blanks are within established control limits;
- All corrections on raw data and any generated forms are appropriately documented; and
- Raw data, calculations, and results are correctly transcribed.

This review is documented by the analyst and included with the data package. In the case of work performed by subcontracted laboratories, the first level review was performed by the subcontracted laboratory, ALS.

2.2 LABORATORY DATA - SECOND LEVEL REVIEW

The laboratory conducted a secondary review of the data as an independent and detailed review to confirm that the data set is acceptable for release. The secondary review process confirms that:

- COC information is correct;
- Holding times were met (exceeded holding times, if present, are documented in the case narrative);
- Sample preparation information is correct and complete;
- Analysis information is correct and complete;

- Appropriate SOPs have been followed;
- Analytical results are correct and complete (including calculations);
- QC samples are within established control limits;
- Blanks are within established control limits;
- Special sample preparation and analytical requirements have been met;
- Documentation is complete;
- Corrections on raw data and any generated forms are appropriately documented; and
- All documents have been initialed and dated in accordance with laboratory SOPs.

The secondary review was conducted by experienced laboratory personnel who perform data review as a primary function, are organizationally separate from the operating analysts, and have direct access to the laboratory's quality assurance (QA) Manager. Any errors found in this review should trigger appropriate actions resulting in the correction of the data. In the case of work performed by subcontracted laboratories, the data is reviewed and approved by the primary laboratory in a manner similar to a secondary review process. ALS confirmed that the data set is acceptable for release.

2.3 LABORATORY DATA - THIRD LEVEL REVIEW

The third level of review for laboratory data is accomplished by the Laboratory Project Manager during preparation of the final laboratory report. A Case Narrative is prepared for each Sample Delivery Group (SDG) (or equivalent) as documentation of the review. This narrative includes comments as appropriate for the proper interpretation of the data as reported. The signature of the laboratory Project Manager, laboratory director, or designated senior QA staff on each SDG report constitutes acceptance and release of the report from the third level review.

The sampling event included one Sample Delivery Group: R2404674.

2.3.1 Third Level Review for SDG R2404674

According to the Case Narrative SDG R2404674, all analyses were performed consistent with the quality assurance program of ALS. The Case Narrative included the following details:

- Sample Receipt: Eighteen (18) water samples were received for analysis at ALS Environmental on 5/31/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at a minimum in accordance with the analytical method requirements.
- Volatiles by GC/MS: Method 8260C: No significant anomalies were noted with the analysis.
- Semivolatiles by GC: No significant anomalies were noted with the analysis.
- Dissolved Metals: Method 6010C: No significant anomalies were noted with the analysis.
- General Chemistry: Method 300.0 and Method 410.4: No significant anomalies were noted with the analysis.

The signature of ALS staff on the SDG report constitutes acceptance and release of the report from the third level review. A copy of the laboratory report is presented in Attachment A.

2.4 COMPLIANCE REVIEW

A basic Compliance Review was conducted by CEC NY to confirm completeness and deliverable compliance with method and contractual requirements for each SDG submitted by the laboratory. This review was conducted primarily to confirm contractual compliance by the laboratory and includes the following:

- Comparison of the laboratory work request and chain-of-custody information with the submitted results;
- Verification of holding times for each sample and analytical fraction; and
- Verification of the report delivery within the contractual window.

The data package deliverable format for chemical analytical data includes:

- Title page and table of contents
- Sample control data
  - Chain-of-custody documents
  - Shipping Form
- Case narrative - nonconformance summary report
- Analysis data sheet (for each sample in SDG):
  - Information similar to CLP Form I
  - Method detection/reporting limit
  - Quality control summary
  - Reagent blank summary
  - Duplicate summary including relative percent difference (when specified)
  - MS/MSD summary including percent recovery (when specified)

    - Calibration summary
- Raw QC and standards data
    - Initial calibration data
    - Continuing calibration data (where specified by method)
    - Reagent blank data
    - Matrix spike data
    - Duplicate data
    - Raw sample data

The samples included in the SDG were prepared and analyzed for volatiles by GC/MS using Method SW-846 8260C, dissolved gases using Method RSK-175, volatile fatty acids by ALS internal SOP for organic acids by High Performance Liquid Chromatography (HPLC), dissolved metals using Method SW-846 6010C, sulfate using Method 300.0, and chemical oxygen demand using Method 410.4. The laboratory data were reviewed and qualified with the following flags:

- U – Indicates the compound was analyzed for but not detected;
- J – Analyte detected at levels less than the Method Reporting Limit (MRL) and greater than or equal to the Method Detection Limit (MDL). Concentration within this range indicates an estimated value;
- E – (Organics) Indicates has exceeded the calibration range for the specific analysis; and
- D - Concentration is the result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.

2.4.1 Compliance Review for SDG R2404674

Samples included in SDG R2404674 were collected, properly preserved, shipped under a completed COC record, and received at ALS within three days of sampling. All holding times were met. All samples were received intact at ALS and within the required temperature range.

The data package received from ALS was paginated and of good quality. The analytical data were 100 percent complete and usable.

2.5 FIELD DATA REVIEW

The tables and logs compiled by the field personnel and used as the basis for data interpretation were checked against the original field documentation prior to inclusion in the report. CEC NY was responsible for performing this review activity. A copy of the field documentation for these samples is presented in Attachment B.

3.0 DATA VALIDATION

Data validation is the process of reviewing data and accepting, qualifying, or rejecting it on the basis of criteria using established U.S. EPA guidelines. The data validation uses a narrative version of a data validation checklist adapted from historic CLP data validation practices in conjunction with data summary tables generated from the project database. Validation of analytical data was conducted by CEC NY.

A Stage 2B validation was performed on the subject laboratory report(s), in accordance with the January 2009 *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* as prepared by U.S. EPA. Analytical data were evaluated in general accordance with the January 2022 *Final Quality Assurance Project Plan, Operable Units 2 and 3 at the Alcas Source Area, Olean Well Field Superfund Site, Olean, New York* as prepared by Civil & Environmental Consultants of New York, Inc., the November 2020 *National Functional Guidelines for Organic Superfund Methods Data Review* as prepared by U.S. EPA, and the November 2020 *National Functional Guidelines for Inorganic Superfund Methods Data Review* as prepared by U.S. EPA.

The following laboratory deliverables were evaluated during the review process:

- Chain-of-custody (COC) documentation to assess holding times and verify report completeness;
- Laboratory quality control (QC) sample results, including method blanks, surrogate spikes, internal standards, laboratory control sample/laboratory control sample duplicates (LCS/LCSDs), matrix spike/matrix spike duplicates (MS/MSDs), and laboratory duplicates;
- Instrument calibration and performance checks; and
- Field QC samples to assess trip blank cleanliness and field duplicate precision.

3.1 DATA VALIDATION FINDINGS FOR SDG R2404674

3.1.1 Custody, Preservation, and Completeness

Acceptable: Sample custody was maintained from sample collection to receipt at the laboratory. The samples were received intact and were properly preserved. The reports are complete and contain results for the samples and tests requested on the COC forms, except chemical oxygen demand at OLN-WW18M-F008, which was inadvertently marked on the COC by the field team. The lab was directed to remove the analysis from SDG R2404674 by the CEC NY project manager.

3.1.2 Volatile Organic Analyses

The field samples and QC samples were analyzed for the OU3-specific VOCs by Method 8260C at the ALS - Rochester, New York laboratory.

3.1.2.1 Holding Times

Acceptable: The samples were analyzed within the QAPP holding time of 14 days.

3.1.2.2 Instrument Tuning and Mass Calibration

Acceptable: The tuning compound bromofluorobenzene was analyzed at the required frequency by the laboratory. The relative abundance values are within the laboratory limits.

3.1.2.3 Initial Calibration

Acceptable: Initial calibrations were analyzed at the required frequency by the laboratory. The QAPP criterion of relative standard deviation (RSD) values less than or equal to 15 percent were met. The relative response factors were greater than the QAPP criterion of the method.

3.1.2.4 Calibration Verification

Acceptable: Calibration verification standards were analyzed at the required frequency by the laboratory. The QAPP criterion of percent difference values less than or equal to 20 percent and

relative response factors greater than the minimum response factors per Table 4 of EPA Method 8260C were met.

3.1.2.5 Blank Analyses

Method Blanks

Acceptable: Method blanks were analyzed by the laboratory at the required frequency as described in the QAPP. Target VOCs were not quantified above the MDL.

Trip Blanks

Acceptable: The QAPP requires trip blanks to be collected each day a field sample is collected. Two trip blanks associated with the sampling event were included in SDG R2404674. Target VOCs were not quantified above the RL in the trip blanks.

3.1.2.6 Surrogate Analyses

Acceptable: Surrogate compounds were added to the samples, blanks, and QC samples as required. The recovery values were within the laboratory control limits.

3.1.2.7 Laboratory Control Sample Analyses

Acceptable: ALS analyzed LCSs at the required frequency. The recovery and relative percent difference (RPD) values were within the laboratory control limits.

3.1.2.8 Matrix Spike/Matrix Spike Duplicate Analyses

Acceptable with Discussion: MS/MSDs were reported as required. The recovery and RPD values were within the laboratory control limits. MS/MSD data are presented in the laboratory analytical report for information purposes. The laboratory evaluates system performance based on the LCS control limits.

3.1.2.9 Internal Standard Evaluation

Acceptable: Internal standards were added to the samples, blanks, and QC samples as required. The recovery and retention time criteria were met.

3.1.2.10 Laboratory Reporting Limits

Acceptable with Discussion: Laboratory Method Reporting Limits (MRLs) listed in the QAPP were met except in all cases where dilution was required. The QAPP notes that MRLs are not adjusted for dilution.

3.1.2.11 Overall Assessment of Data Usability

The usability of the data is based on the QAPP and U.S. EPA guidance documents noted previously. Upon consideration of the information presented here, the data are acceptable for their intended use.

3.1.3 Volatile Fatty Acids Analyses

The field samples and QC samples were analyzed for volatile fatty acids (acetate, propionate, and butyrate) using HPLC at the ALS - Rochester, New York laboratory.

3.1.3.1 Holding Times

Acceptable: The samples were analyzed within the QAPP holding time of 28 days.

3.1.3.2 Initial Calibration Verification

Acceptable: Initial calibration verification standards were analyzed at the required frequency by the laboratory. The QAPP criterion of no more than ±30 percent difference from true values were met in all cases.

3.1.3.3 Calibration Verification

Acceptable: Calibration verification standards were analyzed at the required frequency by the laboratory. The QAPP criterion of no more than ±20 percent difference from true values were met in all cases.

3.1.3.4 Blank Analyses

Acceptable: Method blanks were analyzed by the laboratory at the required frequency as described in the QAPP. Target volatile fatty acids were not quantified above the MDL in any method blank.

3.1.3.5 Laboratory Control Sample Analyses

Acceptable: ALS analyzed LCSs at the required frequency. The recovery and relative percent difference (RPD) values were within the laboratory control limits for all LCSs.

3.1.3.6 Matrix Spike/Matrix Spike Duplicate Analyses

Acceptable: MS/MSDs were reported as required. The recovery and RPD values were within the laboratory control limits. MS/MSD data are presented in the report for information purposes. The laboratory evaluates system performance based on the LCS control limits.

3.1.3.7 Laboratory Reporting Limits

Acceptable with Discussion: Laboratory Method Reporting Limits (MRLs) listed in the QAPP were met except in all cases where dilution was required. The QAPP notes that MRLs are not adjusted for dilution.

3.1.3.8 Overall Assessment of Data Usability

The usability of the data is based on the QAPP and U.S. EPA guidance documents noted previously. Upon consideration of the information presented here, the data are acceptable for their intended use.

3.1.4 Dissolved Gases Analyses

The field samples and QC samples were analyzed for dissolved gases (ethane, ethene, and methane) using Method RSK-175 at the ALS - Rochester, New York laboratory.

3.1.4.1 Holding Times

Acceptable: The samples were analyzed within the QAPP holding time of 14 days.

3.1.4.2 Initial Calibration Verification

Acceptable: Initial calibration verification (ICV) standards were analyzed at the required frequency by the laboratory. The QAPP criterion of 85 to 115 percent recovery was met for all ICVs.

3.1.4.3 Continuing Calibration Verification

Acceptable: Continuing calibration verification (CCV) standards were analyzed at the required frequency by the laboratory. The QAPP criterion of 15 percent difference was met for all CCVs.

3.1.4.4 Blank Analyses

Acceptable: Method blanks were analyzed by the laboratory at the required frequency as described in the QAPP. Target dissolved gases were not quantified above the MDL in any method blanks.

3.1.4.5 Matrix Spike/Matrix Spike Duplicate Analyses

Acceptable: MS/MSDs were reported as required. The precent recovery and RPD values were within the laboratory control limits in each instance. Matrix Spike and Matrix Spike Duplicate Data are presented in the report for information purposes. The laboratory evaluates system performance based on the LCS control limits.

- MS/MSD results were above the laboratory control limits for methane in the sample associated with OLN-UA002-F008. The result for OLN-UA002-F008 exceeded the calibration range and was qualified with an "E" qualifier. The recovery for the LCS samples was within the laboratory control limits. As a result, data qualifiers were not required.

3.1.4.6 Laboratory Reporting Limits

Acceptable with Discussion: Laboratory Method Reporting Limits (MRLs) listed in the QAPP were met except in cases where dilution was required. The QAPP notes that MRLs are not adjusted for dilution

3.1.4.7 Overall Assessment of Data Usability

The usability of the data is based on the QAPP and U.S. EPA guidance documents noted previously. Upon consideration of the information presented here, the data are acceptable for their intended use.

3.1.5 Metals Analyses

The field samples and QC samples were analyzed for dissolved metals (arsenic, iron, and manganese) by Method 6010C at the ALS - Rochester, New York Laboratory.

3.1.5.1 Holding Times

Acceptable: The samples were analyzed within the QAPP holding time of 180 days from sample collection for metals.

3.1.5.2 Initial Calibration

Acceptable: Initial calibration and detection limit standards were analyzed daily prior to analysis. The QAPP linearity criterion of correlation coefficient greater than or equal to 0.998 was met for all initial calibrations.

3.1.5.3 Calibration Verifications

Acceptable: Initial calibration verification (ICV) standards and continuing calibration verification (CCV) standards were analyzed at the required frequency. The QAPP criterion of 90 to 110 percent recovery was met in all cases.

3.1.5.4 Blank Analyses

Calibration Blanks

Acceptable: Initial and continuing calibration blanks were analyzed at the required frequency. Target metals were not detected above the MDLs in the calibration blanks.

Method Blanks

Acceptable: Method blanks were analyzed at the required frequency of one per digestion batch. Target metals were not detected above the MDLs in the method blanks.

3.1.5.5 ICP Interference Check

Acceptable: ICP interference check samples were analyzed at the required frequency. The recovery values of spiked metals were within the QAPP criterion of 80 to 120 percent. The non-spiked metals had absolute values less than the MDL.

3.1.5.6 Laboratory Control Sample Analyses

Acceptable: LCSs were analyzed at the required frequency of one per digestion batch. The recovery values were within the laboratory control limits of 80 to 120 percent. The RPD values were within the laboratory control limits of less than 20 percent.

3.1.5.7 Matrix Spike/Matrix Spike Duplicate Analyses

Acceptable: MS/MSDs were reported as required. The recovery values were within the QAPP criterion of 75 to 125 percent, and the RPD values were within the laboratory control limits.

3.1.5.8 ICP Serial Dilution Analysis

Acceptable: Serial dilutions were performed at a frequency of one per batch. The criterion of percent difference values less than 10 percent for results greater than 50 times the MDL was met for all analyses.

3.1.5.9 Laboratory Reporting Limits

Acceptable with Discussion: Laboratory Method Reporting Limits (MRLs) listed in the QAPP were met except in cases where dilution was required. The QAPP notes that MRLs are not adjusted for dilution

3.1.5.10 Overall Assessment of Data Usability

The usability of the data is based on the QAPP and U.S. EPA guidance documents noted previously. Upon consideration of the information presented here, the data are acceptable for their intended use.

3.1.6 General Chemistry Analyses

The field samples and QC samples were analyzed for sulfate using Method 300.0 and COD using Method 410.4 at the ALS - Rochester, New York laboratory.

3.1.6.1 Holding Times

Acceptable: The samples were analyzed within the QAPP holding time of 28 days.

3.1.6.2 Initial Calibration

Acceptable: Initial calibrations were analyzed at the required frequency by the laboratory.

3.1.6.3 Calibration Verification

Acceptable: Calibration verification standards were analyzed at the required frequency by the laboratory. The laboratory criterion of 90 to 110 percent recovery was met in all cases.

3.1.6.4 Blank Analyses

Method Blanks

Acceptable: Method blanks were analyzed by the laboratory at the required frequency as described in the QAPP. Target compounds were not quantified above the MRL in any method blanks.

Continuing Calibration Blank

Acceptable: Continuing Calibration Blanks (CCBs) were analyzed by the laboratory at the required frequency as described in the QAPP. Target compounds were not quantified above the MRL in any CCB.

3.1.6.5 Laboratory Control Sample Analyses

Acceptable: ALS analyzed LCSs at the required frequency. The recovery and RPD values were within the laboratory control limits for all LCSs.

3.1.6.6 Matrix Spike/Matrix Spike Duplicate Analyses

Acceptable with Discussion: MS/MSDs were reported as required. The recovery and RPD values were within the laboratory control limits, except as discussed below. MS/MSD data is presented in the laboratory analytical report for information purposes. The laboratory evaluates system performance based on the LCS control limits.

- Sulfate: MS/MSD values were below the laboratory control limits of 90 to 110 percent recovery for the sample associated with OLN-RU010-F008 and OLN-UA002-F008.

3.1.6.7 Laboratory Reporting Limits

Acceptable with Discussion: Laboratory Method Reporting Limits (MRLs) listed in the QAPP were met except in cases where dilution was required. The QAPP notes that MRLs are not adjusted for dilution

3.1.6.8 Overall Assessment of Data Usability

The usability of the data is based on the QAPP and U.S. EPA guidance documents noted previously. Upon consideration of the information presented here, the data are acceptable for their intended use.

4.0 DATA USABILITY

The following data quality indicators were evaluated to determine the usability of the analytical results: precision, accuracy, representativeness, completeness, and comparability. These data quality indicators are applicable to both field and laboratory procedures. Each of the data quality indicators are discussed briefly in the following subsections.

4.1 PRECISION

Precision is a measure of the reproducibility of analyses under a given set of conditions (i.e., the degree to which two or more measurements are in agreement). Precision evaluates how far different individual reported values are from the average or mean. Precision is thus a measure of the magnitude of random error and is expressed as the relative percent difference (RPD). The lower the RPD value, the more precise (i.e., reproducible) the data.

Precision is evaluated using the RPD, which is determined according to the following equation:

$$RPD = \frac{|Value\ 1 - Value\ 2|}{Arithmetic\ Mean\ of\ Value\ 1\ and\ 2}\ x\ 100$$

This equation above is appropriate when the analytical results are greater than 5 times the reporting limit (RL). Acceptable precision for field duplicates in groundwater is typically RPD < 25-percent. For results that are near the limit of quantitation, acceptable precision is achieved when the absolute value of the difference between Value 1 and Value 2 is within 2 times the RL. For results that are reported between the RL and the method detection limit (MDL), precision is considered poor by definition (i.e., the results are considered qualitatively acceptable in that a constituent can be identified, but are quantitatively suspect since the concentration cannot be accurately quantified). For this reason, results between the RL and MDL are flagged with the qualifier "J," indicating that they are estimated.

Precision for groundwater samples was evaluated using the analytical results for one (1) sample and respective duplicate sample. The precision determination for the duplicate sample is discussed below.

4.1.1 Precision for Duplicate Sample OLN-FD001-D008

Duplicate sample OLN-FD001-D008 is associated with sample OLN-RU021-F008. Sample results and calculated RPD values are summarized in Table 1.

The following constituents had a quantifiable concentration that met the precision criterion of an RPD < 25-percent: TCE, cis-1,2-DCE, VC, methane, acetic acid, dissolved arsenic, dissolved iron, dissolved manganese, sulfate, and COD. Trans-1,2-DCE and propionic acid had quantifiable concentrations that met the precision criterion of the absolute difference being within two times the RL. Therefore, these analytical results are considered precise.

4.2 ACCURACY

Accuracy is a measure of the bias that exists in a measurement system (i.e., the degree of agreement between an observed value and a reference or true value). Accuracy measures the average or systematic error of a measurement method or sampling method. Accuracy in the field is determined through the collection of blanks and review of the results for evidence of sample contamination stemming from field activities or sample transport.

Two trip blanks, two field blanks, and one equipment blank were analyzed as part of this Project. Trip blank, field blank, and equipment blank analytical results are summarized in Table 2.

None of the analytes were quantified or estimated in the equipment blanks, trip blanks, and field blanks.

4.3 REPRESENTATIVENESS

Representativeness expresses the degree to which data accurately and precisely represent the environmental condition. Representativeness is accomplished by maintaining sample integrity with appropriate preservation and meeting technical holding times and by collecting a statistically significant number of samples. Field representativeness is dependent upon the proper design of the sampling program and is satisfied by following proper sampling techniques.

Field work was conducted in accordance with the January 2022 *Final Field Sampling Plan Operable Units 2 and 3 at the Alcas Source Area, Olean Well Field Superfund Site, Olean, New York* (FSP) as prepared by Civil & Environmental Consultants of New York, Inc. Samples were collected using laboratory provided containers, preserved in a cooler on ice, and were immediately delivered to the laboratory within specified hold times. All samples were analyzed within the method specified holding time. The samples were collected using consistent and appropriate sampling techniques. Based on the above, the analytical results are considered to be representative.

4.4 COMPLETENESS

Completeness is the measurement of the amount of valid data obtained from a measurement system compared to the amount that was expected to be obtained under "normal" conditions. Completeness establishes whether a sufficient number of valid measurements were obtained. The closer this value is to 100, the more complete the measurement process. Data rejected, whether due to sampling design error, measurement error, or bias or sample matrix interferences, are considered invalid measurements. The following formula was used to estimate completeness:

$$Percent\ Completeness = \frac{V}{T}\ x\ 100$$

Where:

V = number of measurements judged valid

T = total number of measurements

The field completeness objective for this project is greater than 90%.

All proposed sampling points were collected. No data were rejected due to sampling design error, measurement error, or bias or sample matrix interferences. Since all of the sixteen (16) samples were collected and no data was considered invalid, the dataset is considered to be 100% complete, which meets the field completeness objective.

4.5 COMPARABILITY

Comparability expresses the confidence with which one set of data can be compared to another. It is a qualitative measurement to ensure sampling and analytical procedures are consistent within and between data sets, such as split sampling or monitoring. Analytical data is comparable when similar sampling, analytical methods, and reporting limits are consistently used for assessments of water quality. Comparability was controlled by requiring the use of specific nationally-recognized analytical methods and requiring consistent method performance criteria.

Sampling was conducted in accordance with the FSP. The sampling event followed sampling procedures employed previously and utilized the same laboratory for analysis via consistent analytical methods. Because of this, the sampling procedures between sample locations and across different sampling events were consistent. Thus, the data sets discussed above are considered comparable.

5.0 SUMMARY

CEC NY completed a data review of the aqueous samples data packages prepared by ALS. Based on the data review and validation evaluation, the data were considered to be sufficiently compliant and acceptable in accordance with validation protocols. The quality assurance objectives for data included considerations for precision, accuracy, representativeness, completeness and comparability. The data were 100 percent complete with all data considered usable. The specific samples, the analyses performed, and a usability summary are presented in Table 3.

TABLES

TABLE 1 (Page 1 of 2)
REPLICATE GROUNDWATER ANALYTICAL RESULTS
OPERABLE UNIT 3 IN THE ALCAS SOURCE AREA
OLEAN WELL FIELD SUPERFUND SITE
OLEAN, NEW YORK

OPERABLE UNIT 3 OLEAN WELL FIELD SUPERFUND SITE OLEAN, NEW YORK DATA SUMMARY REPORT NINE MONTH PERFORMANCE MONITORING		SAMPLE ID:	OLN-RU021-F008	OLN-FD001-D008 (Field Duplicate)	Estimated Value - Precision Poor By Definition	Precision Evaluation Using RPD or RL	Absolute Value Difference	Meets Precision Criteria Using 2X RL	RPD	Meets Precision Criteria Using RPD
		LAB ID:	-008	-013						
		SOURCE:	ALS	ALS						
		SDG:	R2404674	R2404674						
		MATRIX:	Water	Water						
Validated Data		SAMPLED:	5/29/2024	5/29/2024						
		ANALYZED:	6/9/2024	6/10/2024						
		DILUTION FACTOR:	1	1						
CAS NO.	CONSTITUENT	UNITS								
127-18-4	Tetrachloroethene	mg/l	<0.001	<0.001		--	--	--	--	--
79-01-6	Trichloroethene	mg/l	**0.028**	**0.033**		RPD	--	--	16.39	YES
156-59-2	cis-1,2-Dichloroethene	mg/l	**0.022**	**0.022**		RPD	--	--	0.00	YES
156-60-5	trans-1,2-Dichloroethene	mg/l	**0.0012**	**0.0012**		RL	0.0	YES	--	--
75-01-4	Vinyl chloride	mg/l	**0.015**	**0.015**		RPD	--	--	0.00	YES
74-84-0	Ethane	mg/l	<0.26	<0.52		--	--	--	--	--
74-85-1	Ethene	mg/l	<0.25	<0.5		--	--	--	--	--
74-82-8	Methane	mg/l	**16**	**20 D**		RPD	--	--	22.22	YES
64-19-7	Acetic Acid	mg/l	**54**	**52**		RPD	--	--	3.77	YES
107-92-6	Butanoic Acid (Butyric Acid)	mg/l	<10	<10		--	--	--	--	--
79-09-4	Propionic Acid	mg/l	**10**	**10**		RL	0.0	YES	--	--
7440-38-2	Arsenic, Dissolved	mg/l	**0.061**	**0.058**		RPD	--	--	5.04	YES
7439-89-6	Iron, Dissolved	mg/l	**47.5**	**46.9**		RPD	--	--	1.27	YES
7439-96-5	Manganese, Dissolved	mg/l	**3.60**	**3.56**		RPD	--	--	1.12	YES
14808-79-8	Sulfate	mg/l	**100.0**	**98.8**		RPD	--	--	1.21	YES
NA	Chemical Oxygen Demand	mg/l	**267.0**	**253.0**		RPD	--	--	5.38	YES

Qualifiers:

J - Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the Method Reporting Limit (MRL) and the Method Detection Limit (MDL).

D - Concentration is a result of a dilution.

Notes:

Bolded values were detected at concentrations above the Method Detection Limit (MDL).

RL - Reporting Limit

RPD - Relative Percent Difference

mg/l - Milligrams per liter

TABLE 2
SUMMARY OF BLANK ANALYTICAL RESULTS
OPERABLE UNIT 2 IN THE ALCAS SOURCE AREA
OLEAN WELL FIELD SUPERFUND SITE
OLEAN, NEW YORK

OPERABLE UNIT 3 OLEAN WELL FIELD SUPERFUND SITE OLEAN, NEW YORK DATA SUMMARY REPORT NINE MONTH PERFORMANCE MONITORING		**SAMPLE ID:**	**OLN-EB001-E008 (Equipment Blank)**	**OLN-FB001-B008 (Field Blank)**	**OLN-FB002-B008 (Field Blank)**	**OLN-TB001-T008 (Trip Blank)**	**OLN-TB002-T008 (Trip Blank)**
		LAB ID:	-016	-002	-014	-003	-015
		SOURCE:	ALS	ALS	ALS	ALS	ALS
		SDG:	R2404674	R2404674	R2404674	R2404674	R2404674
		MATRIX:	Water	Water	Water	Water	Water
Validated Data		**SAMPLED:**	5/30/2024	5/28/2024	5/29/2024	5/28/2024	5/29/2024
		ANALYZED:	6/10/2024	6/9/2024	6/10/2024	6/9/2024	6/10/2024
		DILUTION FACTOR:	1	1	1	1	1
CAS NO.	**CONSTITUENT**	**UNITS**					
127-18-4	Tetrachloroethene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
79-01-6	Trichloroethene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
156-59-2	cis-1,2-Dichloroethene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
156-60-5	trans-1,2-Dichloroethene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
75-01-4	Vinyl chloride	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
74-84-0	Ethane	mg/l	< 0.0052	< 0.0052	< 0.0052	NA	NA
74-85-1	Ethene	mg/l	< 0.0050	< 0.0050	< 0.0050	NA	NA
74-82-8	Methane	mg/l	< 0.0052	< 0.0052	< 0.0052	NA	NA
64-19-7	Acetic Acid	mg/l	< 1	< 1	< 1	NA	NA
107-92-6	Butanoic Acid (Butyric Acid)	mg/l	< 10	< 10	< 10	NA	NA
79-09-4	Propionic Acid	mg/l	< 2	< 2	< 2	NA	NA
7440-38-2	Arsenic, Dissolved	mg/l	< 0.01	< 0.01	< 0.01	NA	NA
7439-89-6	Iron, Dissolved	mg/l	< 0.1	< 0.1	< 0.1	NA	NA
7439-96-5	Manganese, Dissolved	mg/l	< 0.01	< 0.01	< 0.01	NA	NA
14808-79-8	Sulfate	mg/l	< 5	< 5	< 5	NA	NA
NA	Chemical Oxygen Demand	mg/l	< 2	< 2	< 2	NA	NA

Qualifiers:

J - Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the Method Reporting Limit (MRL) and the Method Detection Limit (MDL).

B - Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

Notes:

Bolded values were detected at concentrations above the Method Detection Limit (MDL).

mg/l - Milligrams per liter.

NA - Not analyzed.

TABLE 3
SUMMARY OF SAMPLE ANALYSES AND USABILITY
OPERABLE UNIT 2 IN THE ALCAS SOURCE AREA
OLEAN WELL FIELD SUPERFUND SITE
OLEAN, NEW YORK

OPERABLE UNIT 3 **OLEAN WELL FIELD SUPERFUND SITE** **OLEAN, NEW YORK** **DATA SUMMARY REPORT** **NINE MONTH PERFORMANCE MONITORING**								
Validated Data								
Sample ID	**Matrix**	**Sample Date**	**8260C**	**RSK175**	**VFAs**	**6010C/7470A**	**300.0**	**410.4**
OLN-RU009-F008	Water	5/28/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-RU010-F008	Water	5/29/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-RU015-F008	Water	5/29/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-RU019-F008	Water	5/29/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-RU020-F008	Water	5/29/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-RU021-F008	Water	5/29/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-RU27A-F008	Water	5/29/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-RU028-F008	Water	5/29/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-UA002-F008	Water	5/29/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-WW18M-F008	Water	5/29/2024	Usable	NA	NA	Usable	NA	NA
		Total Samples	10	9	9	10	9	9

Notes:

NA - Not analyzed.

ATTACHMENT A
LABORATORY ANALYTICAL REPORT

June 24, 2024 Service Request No:R2404674

Michael Worden
Civil & Environmental Consultants, Incorporated (CEC)
2704 Cherokee Farm Way
Suite 101
Knoxville, TN 37920

Laboratory Results for: Olean OU3 9-Month

Dear Michael,

Enclosed are the results of the sample(s) submitted to our laboratory May 31, 2024
For your reference, these analyses have been assigned our service request number **R2404674.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

CC: Laura Campbell

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OLN-UA002-F008 - Semivoa GC 718
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Narrative Documents

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Environmental

Client: Civil & Environmental Consultants, Incorporated (CEC)
Service Request: R2404674
Project: Olean OU3 9-Month
Date Received: 05/31/2024
Sample Matrix: Water

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.
Manual Integrations may have been used in the quantitation of the results in this report. Manual Integrations are readily identified in the raw data on the Quantitation Reports (Organics) by the automatic placement of an “m” next to the sample result. For Ion Chromatography, the manual integrations are identified by the automatic placement of “manipulated” or "manually integrated" in the upper left corner of the chromatogram (Hexavalent Chromium) or “M” by the result in the “Type” column (anions). The reason for the manual integration is noted on the “after” chromatogram, which is found with the original chromatogram and quantitation report. All integrations follow the lab SOP ADM-INT “Manual Integration.”

Sample Receipt:

Sixteen water samples were received for analysis at ALS Environmental on 05/31/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivoa GC:

No significant anomalies were noted with this analysis.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Volatiles by GC:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

No significant anomalies were noted with this analysis.

Approved by _____ Date 06/24/2024

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2404674
Project: Olean OU3 9-Month/300-082.0043

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R2404674-001	OLN-RU009-F008	5/28/2024	1606
R2404674-002	OLN-FB001-B008	5/28/2024	1653
R2404674-003	OLN-TB001-T008	5/28/2024	
R2404674-004	OLN-RU010-F008	5/29/2024	1750
R2404674-005	OLN-RU015-F008	5/29/2024	0842
R2404674-006	OLN-RU019-F008	5/29/2024	1720
R2404674-007	OLN-RU020-F008	5/29/2024	1455
R2404674-008	OLN-RU021-F008	5/29/2024	1611
R2404674-009	OLN-RU027A-F008	5/29/2024	1421
R2404674-010	OLN-RU028-F008	5/29/2024	1235
R2404674-011	OLN-UA002-F008	5/29/2024	1010
R2404674-012	OLN-WW18M-F008	5/29/2024	0915
R2404674-013	OLN-FD001-D008	5/29/2024	0700
R2404674-014	OLN-FB002-B008	5/29/2024	1725
R2404674-015	OLN-TB002-T008	5/29/2024	
R2404674-016	OLN-EB001-E008	5/30/2024	1630

Cr6 7196/SM3500 ; BOD ; CT ; Cr6 7199/218.6
353.2 NO2 ; OPO4 ; 300 NO2NO3 ; Sulfide
RES Cl ; DO ; Ferrous Iron ; Sulfite ; UV 254 ; CHL A
Color ; Turbidity ; Set Solids

Civil & Environmental Consultants, Inc.

Project Name:	Olean OU3 9-Month	CEC Office: Pittsburgh 700 Cherrington Parkway Moon Township, PA 15108 (800) 365-2324	
Project Location:	Olean, NY		
Project Number:	300-082.0043	Lab: ALS Rochester, NY	
P.O. / Quote #:			
Project Manager:	Laura Campbell/Mike Worden		
Field Personnel:	Laura Campbell/Lauren Rockwell		

Data Delivery: ___ CD (EDD and Report) ___ Paper Report
x Email (EDD and Report) ___ Preliminary Results (ASAP)
Report Level: ___ Level I ___ Level II x Level IV
Email Address: lcampbell@cecinc.com

Turn-Around Time:
x Standard ___ 5 days ___ 72 hr ___ 48 hr ___ 24 hr

Date	Time	Sample ID	Matrix	Grab (G) or Composite (C)	Field Filtered	VOCs by 8260 (PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, VC)	RSK 175 (ethane, ethene, methane)	COD Method 410.4	Sulfate Method 300	VFAs (Acetate, Propionate, Butyrate)	Dissolved Metals by Method 6010 (As, Fe, Mn) - FIELD FILTERED					Special Instructions/ Quality Control Samples/ Comments
Container Type																
Container Size																
Preservative						1	1	3		7	2					
Hold Time																
5/28/24	1606	OLN-RW009-F008	W	G	Y	X	X	X	X	X	X					
↓	1653	OLN-EB001-B008				X	X	X	X	X	X					
↓	—	OLN-TB001-T008				X										
5/29/24	1750	OLN-RW010-F008				X	X		X	X	X					
	0842	OLN-RW015-F008				X	X	X	X	X	X					
	1720	OLN-RW09-F008				X	X	X	X	X	X					
	1455	OLN-RW020-F008				X	X	X	X	X	X					
	1611	OLN-RW021-F008				X	X	X	X	X	X					
	1421	OLN-RW27A-F008				X	X	X	X	X	X					
	1235	OLN-RW028-F008				X	X	X	X	X	X					

Matrix Key: A - Air; W - Water; SO - Soil; SE - Sediment; SL - Sludge; WA - Waste; WW - Wastewater; P - Wipe; O - Other

Preservative Key: 0 - 4°C; 1 - HCl; 2 - HNO_3; 3 - H_2SO_4; 4 - NaOH; 5 - Na_2S2O_3; 6 - $NaHSO_4$; 7 - Other

Collected/Relinquished By: Lauren Campbell	Date: 5/30/24	Time: 1705	Received By: Matthew
Relinquished by:	Date:	Time:	Received By:
Relinquished by:	Date:	Time:	Received By Laboratory:

Date: 5/31/24	Time: 9:50		
Date:	Time:		
Date:	Time:		

# of Coolers: 2 Delivery Method: ___ FedEx ___ UPS ___ Courier ___ In-Person ___ Other
Tracking Number:
Custody Seals: ___ Intact ___ Broken
Cooler Temperature Upon Receipt? ___ °C
Jars: ___ Intact ___ Broken
Ice: ___ Present ___ Absent

Remarks/ Special Conditions / Hazards: Dissolved Metals Field filtered

R2404674 5
Civil & Environmental Consultants, Incorporated (
Olean OU3 9-Month

Cr6 7196/SM3500 ; BOD ; CT ; Cr6 7199/218.6
353.2 NO2 ; OPO4 ; 300 NO2/NO3 ; Sulfide
RES Cl ; DO ; Ferrous Iron ; Sulfite ; UV 254 ; CHL A
Color ; Turbidity ; Set Solids

Civil & Environmental Consultants, Inc.

Project Name:	Olean OU3 9-Month
Project Location:	Olean, NY
Project Number:	300-082.0043
P.O. / Quote #:	
Project Manager:	Laura Campbell/Mike Worden
Field Personnel:	Laura Campbell/Lauren Rockwell

CEC Office: Pittsburgh
700 Cherrington Parkway
Moon Township, PA 15108
(800) 365-2324
Lab: ALS Rochester, NY

Data Delivery: ___ CD (EDD and Report) ___ Paper Report
x Email (EDD and Report) ___ Preliminary Results (ASAP)
Report Level: ___ Level I ___ Level II x Level IV
Email Address: lcampbell@cecinc.com

Turn-Around Time:
x Standard ___ 5 days ___ 72 hr ___ 48 hr ___ 24 hr

Date	Time	Sample ID	Matrix	Grab (G) or Composite (C)	Field Filtered	VOCs by 8260 (PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, VC)	RSK 175 (ethane, ethene, methane)	COD Method 410.4	Sulfate Method 300	VFAs (Acetate, Propionate, Butyrate)	Dissolved Metals by Method 6010 (As, Fe, Mn) - FIELD FILTERED	Special Instructions/ Quality Control Samples/ Comments
Container Type												
Container Size												
Preservative						1	1	3		7	2	
Hold Time												
5/29/24	1010	OLN-UA002-F008	W	G	Y	X	X	X	X	X	X	
	1010	OLN-MS001-M008				X	X	X	X	X	X	MS/MSD collected at OLN-UA002-F008
	1010	OLN-MD001-M008				X	X	X	X	X	X	
	0915	OLN-WW18M-F008				X		X			X	
	0700	OLN-FD001-D008				X	X	X	X	X	X	
	1725	OLN-FB002-B008				X	X	X	X	X	X	
↓	—	OLN-TB002-T008				X						
5/30/24	1630	OLN-EB001-E008				X	X	X	X	X	X	

Sulate bollte received for OLN-WW18M-F008 rather than COD. As per Laura Campell, So4 and COD canceled for this location 6/10/24

Matrix Key: A - Air; W - Water; SO - Soil; SE - Sediment; SL - Sludge; WA - Waste; WW - Wastewater; P - Wipe; O - Other

Preservative Key: 0 - 4°C; 1 - HCl; 2 - HNO_3; 3 - H_2SO_4; 4 - NaOH; 5 - Na_2S2O_3; 6 - $NaHSO_4$; 7 - Other

Collected/Relinquished By:	Lauren Crumpton	Date: 5/30/24	Time: 1705
Relinquished by:		Date:	Time:
Relinquished by:		Date:	Time:

Received By:		Date: 5/31/24	Time: 9:50
Received By:		Date:	Time:
Received By Laboratory:		Date:	Time:

# of Coolers: 2 Delivery Method: ___ FedEx ___ UPS ___ Courier ___ In-Person ___ Other
Tracking Number:
Custody Seals: ___ Intact ___ Broken
Cooler Temperature Upon Receipt? ___ °C
Jars: ___ Intact ___ Broken
Ice: ___ Present ___ Absent

Remarks/ Special Conditions / Hazards: Dissolved Metals Field Filtered

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Civil & Environmental Consultants, Incorporated (
Olean OU3 9-Month

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Civil & Environmental Consultants, Incorporated (
Olean OU3 9-Month

Cooler Receipt and Preservation Check Form

Project/Client CEC Folder Number

Cooler received on 5/31/24 by: MM COURIER: ALS UPS (FEDEX) VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	(Y) N	5a	Did **VOA** vials have sig* **bubbles?**		Y (N) NA
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Sig* bubbles: **Alk?**	Y N (NA)	**Sulfide?**	Y N (NA)
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	(ALS) ROC CLIENT		
4	Circle: (**Wet Ice**) **Dry Ice Gel packs** present?	(Y) N	7	Soil VOA received as:	Bulk Encore 5035set (NA)		

8. Temperature Readings Date: 5/31/24 Time: 11:08 ID (IR#12) IR#11 From: Temp Blank (Sample Bottle)

Temp (°C)	5.9	5.7					
Within 0-6°C?	(Y) N	(Y) N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: Ice melted Poorly Packed (described below) Same Day Rule

&Client Approval to Run Samples: Standing Approval Client aware at drop-off Client notified by:

All samples held in storage location: SMO by MM on 5/31/24 at 11:10
5035 samples placed in storage location: by on at within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 5/31/24 Time: 12:41 by: MM

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
10. Did all bottle labels and tags agree with custody papers? YES (NO)
11. Were correct containers used for the tests indicated? (YES) NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO (N/A)
13. Were dissolved metals filtered in the field? (YES) NO N/A
14. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2	221523	HNO_3	x		Label Covering 24001282	3/26				
≤2	↓	H_2SO_4	x							
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-						
		HCl	**	**	24001661	4/26				

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 041524-2ADD, 112723-3AXH, 042224-3EGR, 040824-4EKE, Label Covering
Explain all Discrepancies/ Other Comments:

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: MM *significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations[1]

NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory. To verify NH accredited analytes, go to https://www4.des.state.nh.us/CertifiedLabs/Certified-Method.aspx.

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2404674
Project: Olean OU3 9-Month/300-082.0043

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
Organic Acids	Water	Acetic Acid
Organic Acids	Water	Butanoic Acid (Butyric Acid)
Organic Acids	Water	Propionic Acid

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2404674
Project: Olean OU3 9-Month/300-082.0043

Sample Name: OLN-RU009-F008 **Date Collected:** 05/28/24
Lab Code: R2404674-001 **Date Received:** 05/31/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
6010C	CDISTEFANO	NMANSEN
8260C		KRUEST
Hach 8000 (1979)		SDUBE
Organic Acids		KPROCOPIO
RSK 175		FNAEGLER

Sample Name: OLN-FB001-B008 **Date Collected:** 05/28/24
Lab Code: R2404674-002 **Date Received:** 05/31/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
6010C	CDISTEFANO	NMANSEN
8260C		KRUEST
Hach 8000 (1979)		SDUBE
Organic Acids		KPROCOPIO
RSK 175		FNAEGLER

Sample Name: OLN-TB001-T008 **Date Collected:** 05/28/24
Lab Code: R2404674-003 **Date Received:** 05/31/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2404674
Project: Olean OU3 9-Month/300-082.0043

Sample Name: OLN-RU010-F008 **Date Collected:** 05/29/24
Lab Code: R2404674-004 **Date Received:** 05/31/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
6010C	CDISTEFANO	NMANSEN
8260C		KRUEST
Organic Acids		KPROCOPIO
RSK 175		FNAEGLER

Sample Name: OLN-RU015-F008 **Date Collected:** 05/29/24
Lab Code: R2404674-005 **Date Received:** 05/31/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
6010C	CDISTEFANO	NMANSEN
8260C		KRUEST
Hach 8000 (1979)		SDUBE
Organic Acids		KPROCOPIO
RSK 175		FNAEGLER

Sample Name: OLN-RU019-F008 **Date Collected:** 05/29/24
Lab Code: R2404674-006 **Date Received:** 05/31/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
6010C	CDISTEFANO	NMANSEN
8260C		KRUEST
Hach 8000 (1979)		SDUBE
Organic Acids		AFELSER
RSK 175		FNAEGLER

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2404674
Project: Olean OU3 9-Month/300-082.0043

Sample Name: OLN-RU020-F008 **Date Collected:** 05/29/24
Lab Code: R2404674-007 **Date Received:** 05/31/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
6010C	CDISTEFANO	NMANSEN
8260C		KRUEST
Hach 8000 (1979)		SDUBE
Organic Acids		KPROCOPIO
RSK 175		FNAEGLER

Sample Name: OLN-RU021-F008 **Date Collected:** 05/29/24
Lab Code: R2404674-008 **Date Received:** 05/31/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
6010C	CDISTEFANO	NMANSEN
8260C		KRUEST
Hach 8000 (1979)		SDUBE
Organic Acids		KPROCOPIO
RSK 175		FNAEGLER

Sample Name: OLN-RU027A-F008 **Date Collected:** 05/29/24
Lab Code: R2404674-009 **Date Received:** 05/31/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
6010C	CDISTEFANO	NMANSEN
8260C		KRUEST
Hach 8000 (1979)		SDUBE
Organic Acids		AFELSER
RSK 175		FNAEGLER

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2404674
Project: Olean OU3 9-Month/300-082.0043

Sample Name: OLN-RU028-F008 **Date Collected:** 05/29/24
Lab Code: R2404674-010 **Date Received:** 05/31/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
6010C	CDISTEFANO	NMANSEN
8260C		KRUEST
Hach 8000 (1979)		SDUBE
Organic Acids		KPROCOPIO
RSK 175		FNAEGLER

Sample Name: OLN-UA002-F008 **Date Collected:** 05/29/24
Lab Code: R2404674-011 **Date Received:** 05/31/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
6010C	CDISTEFANO	NMANSEN
8260C		KRUEST
Hach 8000 (1979)		SDUBE
Organic Acids		KPROCOPIO
RSK 175		FNAEGLER

Sample Name: OLN-UA002-F008 **Date Collected:** 05/29/24
Lab Code: R2404674-011.R01 **Date Received:** 05/31/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
RSK 175		FNAEGLER

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2404674
Project: Olean OU3 9-Month/300-082.0043

Sample Name: OLN-WW18M-F008 **Date Collected:** 05/29/24
Lab Code: R2404674-012 **Date Received:** 05/31/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	CDISTEFANO	NMANSEN
8260C		KRUEST

Sample Name: OLN-FD001-D008 **Date Collected:** 05/29/24
Lab Code: R2404674-013 **Date Received:** 05/31/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
6010C	CDISTEFANO	NMANSEN
8260C		KRUEST
Hach 8000 (1979)		SDUBE
Organic Acids		KPROCOPIO
RSK 175		FNAEGLER

Sample Name: OLN-FD001-D008 **Date Collected:** 05/29/24
Lab Code: R2404674-013.R01 **Date Received:** 05/31/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
RSK 175		FNAEGLER

Sample Name: OLN-FB002-B008 **Date Collected:** 05/29/24
Lab Code: R2404674-014 **Date Received:** 05/31/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
6010C	CDISTEFANO	NMANSEN
8260C		KRUEST
Hach 8000 (1979)		SDUBE

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2404674
Project: Olean OU3 9-Month/300-082.0043

Sample Name: OLN-FB002-B008 **Date Collected:** 05/29/24
Lab Code: R2404674-014 **Date Received:** 05/31/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
Organic Acids		KPROCOPIO
RSK 175		FNAEGLER

Sample Name: OLN-TB002-T008 **Date Collected:** 05/29/24
Lab Code: R2404674-015 **Date Received:** 05/31/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: OLN-EB001-E008 **Date Collected:** 05/30/24
Lab Code: R2404674-016 **Date Received:** 05/31/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
6010C	CDISTEFANO	NMANSEN
8260C		KRUEST
Hach 8000 (1979)		SDUBE
Organic Acids		KPROCOPIO
RSK 175		FNAEGLER

PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

INORGANIC

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C or 6010D	3005A/3010A
6020A or 6020B	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-N-2016 Amenable and Residual Cyanide	SM 4500-CN-G and SM 4500-CN-B,C-2016
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C or 6010D	3050B
6020A or 6020B	3050B
6010C or 6010D TCLP (1311) extract	3005A/3010A
6010C or 6010D SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

ORGANIC

Preparation Methods for Organic methods are listed in the header of the Results pages.

Regarding "Bulk/5035A":
For soil/solid samples submitted in soil jars for Volatiles analysis, the prep method is listed as "Bulk/5035A". The lab follows the closed-system EPA 5035A protocols once the sample is transferred to a sealed vial, but collection in bulk in soil jars does not follow the collection protocols listed in EPA 5035A. In accordance with the NYSDOH technical notice of October 2012, all results or reporting limits <200 ug/kg are to be considered estimated due to potential low bias.

Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/28/24 16:06
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU009-F008	**Units:**	ug/L
Lab Code:	R2404674-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/09/24 16:54	
Trichloroethene (TCE)	**0.48 J**	1.0	0.20	1	06/09/24 16:54	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/09/24 16:54	
cis-1,2-Dichloroethene	**0.32 J**	1.0	0.23	1	06/09/24 16:54	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/09/24 16:54	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	06/09/24 16:54	
Dibromofluoromethane	93	80 - 116	06/09/24 16:54	
Toluene-d8	97	87 - 121	06/09/24 16:54	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/28/24 16:53
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-FB001-B008	**Units:**	ug/L
Lab Code:	R2404674-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/09/24 16:31	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/09/24 16:31	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/09/24 16:31	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/09/24 16:31	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/09/24 16:31	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	06/09/24 16:31	
Dibromofluoromethane	97	80 - 116	06/09/24 16:31	
Toluene-d8	100	87 - 121	06/09/24 16:31	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/28/24
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-TB001-T008	**Units:**	ug/L
Lab Code:	R2404674-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/09/24 16:08	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/09/24 16:08	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/09/24 16:08	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/09/24 16:08	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/09/24 16:08	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	06/09/24 16:08	
Dibromofluoromethane	95	80 - 116	06/09/24 16:08	
Toluene-d8	98	87 - 121	06/09/24 16:08	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 17:50
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU010-F008	**Units:**	ug/L
Lab Code:	R2404674-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	2.0 U	2.0	0.42	2	06/09/24 19:12	
Trichloroethene (TCE)	**34**	2.0	0.40	2	06/09/24 19:12	
Vinyl Chloride	**1.5 J**	2.0	0.40	2	06/09/24 19:12	
cis-1,2-Dichloroethene	**150**	2.0	0.46	2	06/09/24 19:12	
trans-1,2-Dichloroethene	**1.1 J**	2.0	0.40	2	06/09/24 19:12	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	06/09/24 19:12	
Dibromofluoromethane	101	80 - 116	06/09/24 19:12	
Toluene-d8	103	87 - 121	06/09/24 19:12	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 08:42
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU015-F008	**Units:**	ug/L
Lab Code:	R2404674-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/09/24 17:17	
Trichloroethene (TCE)	**1.7**	1.0	0.20	1	06/09/24 17:17	
Vinyl Chloride	**0.20 J**	1.0	0.20	1	06/09/24 17:17	
cis-1,2-Dichloroethene	**1.4**	1.0	0.23	1	06/09/24 17:17	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/09/24 17:17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	06/09/24 17:17	
Dibromofluoromethane	97	80 - 116	06/09/24 17:17	
Toluene-d8	100	87 - 121	06/09/24 17:17	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 17:20
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU019-F008	**Units:**	ug/L
Lab Code:	R2404674-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	2.5 U	2.5	0.53	2.5	06/09/24 19:35	
Trichloroethene (TCE)	**160**	2.5	0.50	2.5	06/09/24 19:35	
Vinyl Chloride	**9.7**	2.5	0.50	2.5	06/09/24 19:35	
cis-1,2-Dichloroethene	**190**	2.5	0.58	2.5	06/09/24 19:35	
trans-1,2-Dichloroethene	**2.2 J**	2.5	0.50	2.5	06/09/24 19:35	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	109	85 - 122	06/09/24 19:35	
Dibromofluoromethane	98	80 - 116	06/09/24 19:35	
Toluene-d8	102	87 - 121	06/09/24 19:35	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 14:55
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU020-F008	**Units:**	ug/L
Lab Code:	R2404674-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	2.5 U	2.5	0.53	2.5	06/09/24 19:58	
Trichloroethene (TCE)	**320**	2.5	0.50	2.5	06/09/24 19:58	
Vinyl Chloride	2.5 U	2.5	0.50	2.5	06/09/24 19:58	
cis-1,2-Dichloroethene	**260**	2.5	0.58	2.5	06/09/24 19:58	
trans-1,2-Dichloroethene	**1.8 J**	2.5	0.50	2.5	06/09/24 19:58	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	06/09/24 19:58	
Dibromofluoromethane	98	80 - 116	06/09/24 19:58	
Toluene-d8	100	87 - 121	06/09/24 19:58	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 16:11
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU021-F008	**Units:**	ug/L
Lab Code:	R2404674-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/09/24 18:49	
Trichloroethene (TCE)	**28**	1.0	0.20	1	06/09/24 18:49	
Vinyl Chloride	**15**	1.0	0.20	1	06/09/24 18:49	
cis-1,2-Dichloroethene	**22**	1.0	0.23	1	06/09/24 18:49	
trans-1,2-Dichloroethene	**1.2**	1.0	0.20	1	06/09/24 18:49	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	06/09/24 18:49	
Dibromofluoromethane	98	80 - 116	06/09/24 18:49	
Toluene-d8	99	87 - 121	06/09/24 18:49	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 14:21
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU027A-F008	**Units:**	ug/L
Lab Code:	R2404674-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/09/24 17:40	
Trichloroethene (TCE)	**0.35 J**	1.0	0.20	1	06/09/24 17:40	
Vinyl Chloride	**0.49 J**	1.0	0.20	1	06/09/24 17:40	
cis-1,2-Dichloroethene	**1.4**	1.0	0.23	1	06/09/24 17:40	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/09/24 17:40	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	06/09/24 17:40	
Dibromofluoromethane	96	80 - 116	06/09/24 17:40	
Toluene-d8	100	87 - 121	06/09/24 17:40	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 12:35
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU028-F008	**Units:**	ug/L
Lab Code:	R2404674-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/09/24 18:03	
Trichloroethene (TCE)	**14**	1.0	0.20	1	06/09/24 18:03	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/09/24 18:03	
cis-1,2-Dichloroethene	**1.7**	1.0	0.23	1	06/09/24 18:03	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/09/24 18:03	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	06/09/24 18:03	
Dibromofluoromethane	98	80 - 116	06/09/24 18:03	
Toluene-d8	101	87 - 121	06/09/24 18:03	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 10:10
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-UA002-F008	**Units:**	ug/L
Lab Code:	R2404674-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/09/24 18:26	
Trichloroethene (TCE)	**0.73 J**	1.0	0.20	1	06/09/24 18:26	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/09/24 18:26	
cis-1,2-Dichloroethene	**0.75 J**	1.0	0.23	1	06/09/24 18:26	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/09/24 18:26	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	107	85 - 122	06/09/24 18:26	
Dibromofluoromethane	102	80 - 116	06/09/24 18:26	
Toluene-d8	105	87 - 121	06/09/24 18:26	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 09:15
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-WW18M-F008	**Units:**	ug/L
Lab Code:	R2404674-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/10/24 14:39	
Trichloroethene (TCE)	**12**	1.0	0.20	1	06/10/24 14:39	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/10/24 14:39	
cis-1,2-Dichloroethene	**0.44 J**	1.0	0.23	1	06/10/24 14:39	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/10/24 14:39	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	06/10/24 14:39	
Dibromofluoromethane	101	80 - 116	06/10/24 14:39	
Toluene-d8	103	87 - 121	06/10/24 14:39	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 07:00
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-FD001-D008	**Units:**	ug/L
Lab Code:	R2404674-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/10/24 21:10	
Trichloroethene (TCE)	**33**	1.0	0.20	1	06/10/24 21:10	
Vinyl Chloride	**15**	1.0	0.20	1	06/10/24 21:10	
cis-1,2-Dichloroethene	**22**	1.0	0.23	1	06/10/24 21:10	
trans-1,2-Dichloroethene	**1.2**	1.0	0.20	1	06/10/24 21:10	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	06/10/24 21:10	
Dibromofluoromethane	100	80 - 116	06/10/24 21:10	
Toluene-d8	102	87 - 121	06/10/24 21:10	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 17:25
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-FB002-B008	**Units:**	ug/L
Lab Code:	R2404674-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/10/24 13:30	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/10/24 13:30	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/10/24 13:30	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/10/24 13:30	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/10/24 13:30	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	06/10/24 13:30	
Dibromofluoromethane	97	80 - 116	06/10/24 13:30	
Toluene-d8	99	87 - 121	06/10/24 13:30	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-TB002-T008	**Units:**	ug/L
Lab Code:	R2404674-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/10/24 13:53	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/10/24 13:53	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/10/24 13:53	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/10/24 13:53	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/10/24 13:53	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	06/10/24 13:53	
Dibromofluoromethane	98	80 - 116	06/10/24 13:53	
Toluene-d8	100	87 - 121	06/10/24 13:53	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/30/24 16:30
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-EB001-E008	**Units:**	ug/L
Lab Code:	R2404674-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/10/24 14:16	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/10/24 14:16	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/10/24 14:16	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/10/24 14:16	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/10/24 14:16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	06/10/24 14:16	
Dibromofluoromethane	99	80 - 116	06/10/24 14:16	
Toluene-d8	102	87 - 121	06/10/24 14:16	

Volatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/28/24 16:06
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU009-F008	**Units:**	ug/L
Lab Code:	R2404674-001	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	06/07/24 12:51	
Ethene	5.0 U	5.0	0.35	1	06/07/24 12:51	
Methane	5.2 U	5.2	3.0	1	06/07/24 12:51	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/28/24 16:53
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-FB001-B008	**Units:**	ug/L
Lab Code:	R2404674-002	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	06/07/24 13:05	
Ethene	5.0 U	5.0	0.35	1	06/07/24 13:05	
Methane	5.2 U	5.2	3.0	1	06/07/24 13:05	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 17:50
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU010-F008	**Units:**	ug/L
Lab Code:	R2404674-004	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	06/07/24 13:21	
Ethene	5.0 U	5.0	0.35	1	06/07/24 13:21	
Methane	**59**	5.2	3.0	1	06/07/24 13:21	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 08:42
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU015-F008	**Units:**	ug/L
Lab Code:	R2404674-005	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	06/07/24 13:32	
Ethene	5.0 U	5.0	0.35	1	06/07/24 13:32	
Methane	**7.7**	5.2	3.0	1	06/07/24 13:32	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 17:20
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU019-F008	**Units:**	ug/L
Lab Code:	R2404674-006	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	100 U	100	17	20	06/07/24 14:00	
Ethene	100 U	100	7.0	20	06/07/24 14:00	
Methane	**3600**	100	60	20	06/07/24 14:00	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 14:55
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU020-F008	**Units:**	ug/L
Lab Code:	R2404674-007	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	52 U	52	8.5	10	06/07/24 14:12	
Ethene	50 U	50	3.5	10	06/07/24 14:12	
Methane	**4800**	52	30	10	06/07/24 14:12	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 16:11
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU021-F008	**Units:**	ug/L
Lab Code:	R2404674-008	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	260 U	260	43	50	06/07/24 14:23	
Ethene	250 U	250	18	50	06/07/24 14:23	
Methane	**16000**	260	150	50	06/07/24 14:23	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 14:21
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU027A-F008	**Units:**	ug/L
Lab Code:	R2404674-009	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	100 U	100	17	20	06/07/24 14:35	
Ethene	100 U	100	7.0	20	06/07/24 14:35	
Methane	**4200**	100	60	20	06/07/24 14:35	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 12:35
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU028-F008	**Units:**	ug/L
Lab Code:	R2404674-010	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	06/07/24 14:59	
Ethene	5.0 U	5.0	0.35	1	06/07/24 14:59	
Methane	5.2 U	5.2	3.0	1	06/07/24 14:59	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 10:10
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-UA002-F008	**Units:**	ug/L
Lab Code:	R2404674-011	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	06/07/24 15:10	
Ethene	5.0 U	5.0	0.35	1	06/07/24 15:10	
Methane	**610 E**	5.2	3.0	1	06/07/24 15:10	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 10:10
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-UA002-F008	**Units:**	ug/L
Lab Code:	R2404674-011	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	10 U	10	1.7	2	06/07/24 15:22	
Ethene	10 U	10	0.70	2	06/07/24 15:22	
Methane	**890 D**	10	6.0	2	06/07/24 15:22	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 07:00
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-FD001-D008	**Units:**	ug/L
Lab Code:	R2404674-013	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Ethane	520	U	520	85	100	06/07/24 17:09	
Ethene	500	U	500	35	100	06/07/24 17:09	
Methane	**20000**	**D**	520	300	100	06/07/24 17:09	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 07:00
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-FD001-D008	**Units:**	ug/L
Lab Code:	R2404674-013	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	06/07/24 16:46	
Ethene	5.0 U	5.0	0.35	1	06/07/24 16:46	
Methane	**11000 E**	5.2	3.0	1	06/07/24 16:46	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 17:25
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-FB002-B008	**Units:**	ug/L
Lab Code:	R2404674-014	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	06/07/24 16:22	
Ethene	5.0 U	5.0	0.35	1	06/07/24 16:22	
Methane	5.2 U	5.2	3.0	1	06/07/24 16:22	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/30/24 16:30
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-EB001-E008	**Units:**	ug/L
Lab Code:	R2404674-016	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	06/07/24 16:33	
Ethene	5.0 U	5.0	0.35	1	06/07/24 16:33	
Methane	5.2 U	5.2	3.0	1	06/07/24 16:33	

Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/28/24 16:06
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU009-F008	**Units:**	mg/L
Lab Code:	R2404674-001	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	06/07/24 15:24	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	06/07/24 15:24	
Propionic Acid	2.0 U	2.0	1.1	1	06/07/24 15:24	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/28/24 16:53
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-FB001-B008	**Units:**	mg/L
Lab Code:	R2404674-002	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	06/07/24 15:56	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	06/07/24 15:56	
Propionic Acid	2.0 U	2.0	1.1	1	06/07/24 15:56	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 17:50
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU010-F008	**Units:**	mg/L
Lab Code:	R2404674-004	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**1.2**	1.0	0.56	1	06/07/24 16:28	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	06/07/24 16:28	
Propionic Acid	2.0 U	2.0	1.1	1	06/07/24 16:28	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 08:42
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU015-F008	**Units:**	mg/L
Lab Code:	R2404674-005	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	06/07/24 17:01	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	06/07/24 17:01	
Propionic Acid	2.0 U	2.0	1.1	1	06/07/24 17:01	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 17:20
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU019-F008	**Units:**	mg/L
Lab Code:	R2404674-006	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**230**	2.0	1.2	2	06/19/24 02:38	
Butanoic Acid (Butyric Acid)	**210**	20	10	2	06/19/24 02:38	
Propionic Acid	**120**	4.0	2.2	2	06/19/24 02:38	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 14:55
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU020-F008	**Units:**	mg/L
Lab Code:	R2404674-007	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	06/07/24 18:05	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	06/07/24 18:05	
Propionic Acid	2.0 U	2.0	1.1	1	06/07/24 18:05	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 16:11
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU021-F008	**Units:**	mg/L
Lab Code:	R2404674-008	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**54**	1.0	0.56	1	06/07/24 18:38	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	06/07/24 18:38	
Propionic Acid	**10**	2.0	1.1	1	06/07/24 18:38	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 14:21
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU027A-F008	**Units:**	mg/L
Lab Code:	R2404674-009	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**230**	2.0	1.2	2	06/19/24 03:11	
Butanoic Acid (Butyric Acid)	20 U	20	10	2	06/19/24 03:11	
Propionic Acid	**54**	4.0	2.2	2	06/19/24 03:11	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 12:35
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU028-F008	**Units:**	mg/L
Lab Code:	R2404674-010	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	06/07/24 19:42	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	06/07/24 19:42	
Propionic Acid	2.0 U	2.0	1.1	1	06/07/24 19:42	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 10:10
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-UA002-F008	**Units:**	mg/L
Lab Code:	R2404674-011	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	06/07/24 20:47	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	06/07/24 20:47	
Propionic Acid	2.0 U	2.0	1.1	1	06/07/24 20:47	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 07:00
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-FD001-D008	**Units:**	mg/L
Lab Code:	R2404674-013	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**52**	1.0	0.56	1	06/07/24 22:24	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	06/07/24 22:24	
Propionic Acid	**10**	2.0	1.1	1	06/07/24 22:24	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 17:25
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-FB002-B008	**Units:**	mg/L
Lab Code:	R2404674-014	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	06/07/24 22:57	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	06/07/24 22:57	
Propionic Acid	2.0 U	2.0	1.1	1	06/07/24 22:57	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/30/24 16:30
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-EB001-E008	**Units:**	mg/L
Lab Code:	R2404674-016	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	06/07/24 23:29	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	06/07/24 23:29	
Propionic Acid	2.0 U	2.0	1.1	1	06/07/24 23:29	

Metals

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Form 1

Inorganic Analysis Data Sheet

Metals by EPA 6010C

Workorder

R2404674

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 9-Month

06/21/2024

ALS Environmental–Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 9-Month	**R2404674**

Metals by EPA 6010C (P)

OLN-RU009-F008	Collected	Received	Matrix	Prep Method
R2404674-001	05/28/24 1606	05/31/24 0950	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	06/10/24 23:49	R-ICP-AES-07_843647	439600
P	Iron, Dissolved	100	U	ug/L	70	100	1	06/10/24 23:49	R-ICP-AES-07_843647	439600
P	Manganese, Dissolved	10	U	ug/L	4	10	1	06/10/24 23:49	R-ICP-AES-07_843647	439600

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 9-Month	**R2404674**

Metals by EPA 6010C (P)

OLN-FB001-B008	Collected	Received	Matrix	Prep Method
R2404674-002	05/28/24 1653	05/31/24 0950	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	06/10/24 23:53	R-ICP-AES-07_843647	439600
P	Iron, Dissolved	100	U	ug/L	70	100	1	06/10/24 23:53	R-ICP-AES-07_843647	439600
P	Manganese, Dissolved	10	U	ug/L	4	10	1	06/10/24 23:53	R-ICP-AES-07_843647	439600

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client Civil & Environmental Consultants, Incorporated (CEC)

Project Olean OU3 9-Month

Workorder **R2404674**

Metals by EPA 6010C (P)

OLN-RU010-F008	Collected	Received	Matrix	Prep Method
R2404674-004	05/29/24 1750	05/31/24 0950	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	6	J	ug/L	6	10	1	06/10/24 23:56	R-ICP-AES-07_843647	439600
P	Iron, Dissolved	5440		ug/L	70	100	1	06/10/24 23:56	R-ICP-AES-07_843647	439600
P	Manganese, Dissolved	3460		ug/L	4	10	1	06/10/24 23:56	R-ICP-AES-07_843647	439600

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 9-Month	**R2404674**	

Metals by EPA 6010C (P)

OLN-RU015-F008	Collected	Received	Matrix	Prep Method
R2404674-005	05/29/24 0842	05/31/24 0950	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	06/10/24 23:59	R-ICP-AES-07_843647	439600
P	Iron, Dissolved	1560		ug/L	70	100	1	06/10/24 23:59	R-ICP-AES-07_843647	439600
P	Manganese, Dissolved	649		ug/L	4	10	1	06/10/24 23:59	R-ICP-AES-07_843647	439600

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 9-Month	**R2404674**

Metals by EPA 6010C (P)

OLN-RU019-F008	Collected	Received	Matrix	Prep Method
R2404674-006	05/29/24 1720	05/31/24 0950	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	59		ug/L	6	10	1	06/11/24 00:02	R-ICP-AES-07_843647	439600
P	Iron, Dissolved	118000		ug/L	3100	5000	50	06/12/24 18:49	R-ICP-AES-06_844074	439600
P	Manganese, Dissolved	45500		ug/L	190	500	50	06/12/24 18:49	R-ICP-AES-06_844074	439600

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 9-Month	**R2404674**

Metals by EPA 6010C (P)

OLN-RU020-F008	Collected	Received	Matrix	Prep Method
R2404674-007	05/29/24 1455	05/31/24 0950	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	06/11/24 00:06	R-ICP-AES-07_843647	439600
P	Iron, Dissolved	990		ug/L	70	100	1	06/11/24 00:06	R-ICP-AES-07_843647	439600
P	Manganese, Dissolved	1100		ug/L	4	10	1	06/11/24 00:06	R-ICP-AES-07_843647	439600

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 9-Month	**R2404674**	

Metals by EPA 6010C (P)

OLN-RU021-F008	Collected	Received	Matrix	Prep Method
R2404674-008	05/29/24 1611	05/31/24 0950	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	61		ug/L	6	10	1	06/11/24 00:09	R-ICP-AES-07_843647	439600
P	Iron, Dissolved	47500		ug/L	70	100	1	06/11/24 00:09	R-ICP-AES-07_843647	439600
P	Manganese, Dissolved	3600		ug/L	4	10	1	06/11/24 00:09	R-ICP-AES-07_843647	439600

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 9-Month	**R2404674**	

Metals by EPA 6010C (P)

OLN-RU027A-F008	Collected	Received	Matrix	Prep Method
R2404674-009	05/29/24 1421	05/31/24 0950	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	32		ug/L	6	10	1	06/11/24 00:12	R-ICP-AES-07_843647	439600
P	Iron, Dissolved	124000		ug/L	3100	5000	50	06/12/24 18:52	R-ICP-AES-06_844074	439600
P	Manganese, Dissolved	91700		ug/L	190	500	50	06/12/24 18:52	R-ICP-AES-06_844074	439600

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 9-Month	**R2404674**	

Metals by EPA 6010C (P)

OLN-RU028-F008	Collected	Received	Matrix	Prep Method
R2404674-010	05/29/24 1235	05/31/24 0950	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	06/11/24 00:22	R-ICP-AES-07_843647	439600
P	Iron, Dissolved	100	U	ug/L	70	100	1	06/11/24 00:22	R-ICP-AES-07_843647	439600
P	Manganese, Dissolved	10	U	ug/L	4	10	1	06/11/24 00:22	R-ICP-AES-07_843647	439600

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 9-Month	**R2404674**

Metals by EPA 6010C (P)

OLN-UA002-F008	Collected	Received	Matrix	Prep Method
R2404674-011	05/29/24 1010	05/31/24 0950	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	06/11/24 00:25	R-ICP-AES-07_843647	439600
P	Iron, Dissolved	1910		ug/L	70	100	1	06/11/24 00:25	R-ICP-AES-07_843647	439600
P	Manganese, Dissolved	1380		ug/L	4	10	1	06/11/24 00:25	R-ICP-AES-07_843647	439600

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 9-Month	**R2404674**

Metals by EPA 6010C (P)

OLN-WW18M-F008	Collected	Received	Matrix	Prep Method
R2404674-012	05/29/24 0915	05/31/24 0950	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	06/11/24 00:41	R-ICP-AES-07_843647	439600
P	Iron, Dissolved	100	U	ug/L	70	100	1	06/11/24 00:41	R-ICP-AES-07_843647	439600
P	Manganese, Dissolved	10	J	ug/L	4	10	1	06/11/24 00:41	R-ICP-AES-07_843647	439600

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 9-Month	**R2404674**

Metals by EPA 6010C (P)

OLN-FD001-D008	Collected	Received	Matrix	Prep Method
R2404674-013	05/29/24 0700	05/31/24 0950	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	58		ug/L	6	10	1	06/11/24 00:44	R-ICP-AES-07_843647	439600
P	Iron, Dissolved	46900		ug/L	70	100	1	06/11/24 00:44	R-ICP-AES-07_843647	439600
P	Manganese, Dissolved	3560		ug/L	4	10	1	06/11/24 00:44	R-ICP-AES-07_843647	439600

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 9-Month	**R2404674**

Metals by EPA 6010C (P)

OLN-FB002-B008	Collected	Received	Matrix	Prep Method
R2404674-014	05/29/24 1725	05/31/24 0950	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	06/11/24 00:48	R-ICP-AES-07_843647	439600
P	Iron, Dissolved	100	U	ug/L	70	100	1	06/11/24 00:48	R-ICP-AES-07_843647	439600
P	Manganese, Dissolved	10	U	ug/L	4	10	1	06/11/24 00:48	R-ICP-AES-07_843647	439600

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 9-Month	**R2404674**

Metals by EPA 6010C (P)

OLN-EB001-E008	Collected	Received	Matrix	Prep Method
R2404674-016	05/30/24 1630	05/31/24 0950	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	06/11/24 00:51	R-ICP-AES-07_843647	439600
P	Iron, Dissolved	100	U	ug/L	70	100	1	06/11/24 00:51	R-ICP-AES-07_843647	439600
P	Manganese, Dissolved	10	U	ug/L	4	10	1	06/11/24 00:51	R-ICP-AES-07_843647	439600

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 9-Month	**R2404674**	

Metals by EPA 6010C (P)

Method Blank

	Matrix	Prep Method
R2404674-MB	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic	10	U	ug/L	6	10	1	06/10/24 23:43	R-ICP-AES-07_843647	439600
P	Iron	100	U	ug/L	70	100	1	06/10/24 23:43	R-ICP-AES-07_843647	439600
P	Manganese	10	U	ug/L	4	10	1	06/10/24 23:43	R-ICP-AES-07_843647	439600

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

General Chemistry

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/28/24 16:06
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU009-F008	**Basis:**	NA
Lab Code:	R2404674-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	5.0 U	mg/L	5.0	3.8	1	06/07/24 16:46	
Sulfate	300.0	**25.6**	mg/L	2.0	0.4	10	06/14/24 23:41	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/28/24 16:53
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-FB001-B008	**Basis:**	NA
Lab Code:	R2404674-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	5.0	U	mg/L	5.0	3.8	1	06/07/24 16:46	
Sulfate	300.0	2.0	U	mg/L	2.0	0.4	10	06/14/24 23:47	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 17:50
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU010-F008	**Basis:**	NA
Lab Code:	R2404674-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Sulfate	300.0	**197**	mg/L	10	2	50	06/16/24 09:38	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 08:42
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU015-F008	**Basis:**	NA
Lab Code:	R2404674-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**11.9**	mg/L	5.0	3.8	1	06/07/24 16:46	
Sulfate	300.0	**19.6**	mg/L	2.0	0.4	10	06/15/24 00:31	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 17:20
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU019-F008	**Basis:**	NA
Lab Code:	R2404674-006		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**1390**	mg/L	5.0	3.8	1	06/07/24 14:01	
Sulfate	300.0	**99.8**	mg/L	2.0	0.4	10	06/15/24 00:38	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 14:55
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU020-F008	**Basis:**	NA
Lab Code:	R2404674-007		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**25.0**	mg/L	5.0	3.8	1	06/07/24 16:46	
Sulfate	300.0	**187**	mg/L	6.0	1.2	30	06/18/24 19:56	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 16:11
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU021-F008	**Basis:**	NA
Lab Code:	R2404674-008		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**267**	mg/L	5.0	3.8	1	06/07/24 14:01	
Sulfate	300.0	**100**	mg/L	4.0	0.8	20	06/18/24 20:02	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 14:21
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU027A-F008	**Basis:**	NA
Lab Code:	R2404674-009		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**539**	mg/L	5.0	3.8	1	06/07/24 14:01	
Sulfate	300.0	**1.3 J**	mg/L	2.0	0.4	10	06/15/24 00:56	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 12:35
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU028-F008	**Basis:**	NA
Lab Code:	R2404674-010		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	5.0 U	mg/L	5.0	3.8	1	06/07/24 16:46	
Sulfate	300.0	**21.1**	mg/L	2.0	0.4	10	06/15/24 01:03	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 10:10
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-UA002-F008	**Basis:**	NA
Lab Code:	R2404674-011		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**11.5**	mg/L	5.0	3.8	1	06/07/24 16:46	
Sulfate	300.0	**49.1**	mg/L	2.0	0.4	10	06/15/24 01:22	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 07:00
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-FD001-D008	**Basis:**	NA
Lab Code:	R2404674-013		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**253**	mg/L	5.0	3.8	1	06/07/24 14:01	
Sulfate	300.0	**98.8**	mg/L	4.0	0.8	20	06/18/24 20:08	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 17:25
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-FB002-B008	**Basis:**	NA
Lab Code:	R2404674-014		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	5.0	U	mg/L	5.0	3.8	1	06/07/24 16:46	
Sulfate	300.0	2.0	U	mg/L	2.0	0.4	10	06/15/24 01:53	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/30/24 16:30
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-EB001-E008	**Basis:**	NA
Lab Code:	R2404674-016		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	5.0	U	mg/L	5.0	3.8	1	06/07/24 16:46	
Sulfate	300.0	2.0	U	mg/L	2.0	0.4	10	06/15/24 01:59	

QC Summary Forms

ALS Environmental—Rochester Laboratory
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Volatile Organic Compounds by GC/MS

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Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2404674
Project: Olean OU3 9-Month/300-082.0043
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene 85 - 122	Dibromofluoromethane 80 - 116	Toluene-d8 87 - 121
OLN-RU009-F008	R2404674-001	97	93	97
OLN-FB001-B008	R2404674-002	98	97	100
OLN-TB001-T008	R2404674-003	96	95	98
OLN-RU010-F008	R2404674-004	101	101	103
OLN-RU015-F008	R2404674-005	102	97	100
OLN-RU019-F008	R2404674-006	109	98	102
OLN-RU020-F008	R2404674-007	104	98	100
OLN-RU021-F008	R2404674-008	101	98	99
OLN-RU027A-F008	R2404674-009	101	96	100
OLN-RU028-F008	R2404674-010	101	98	101
OLN-UA002-F008	R2404674-011	107	102	105
OLN-WW18M-F008	R2404674-012	103	101	103
OLN-FD001-D008	R2404674-013	103	100	102
OLN-FB002-B008	R2404674-014	101	97	99
OLN-TB002-T008	R2404674-015	102	98	100
OLN-EB001-E008	R2404674-016	102	99	102
Lab Control Sample	RQ2406500-03	101	98	97
Method Blank	RQ2406500-04	99	97	100
OLN-UA002-F008 MS	RQ2406500-05	106	100	101
OLN-UA002-F008 DMS	RQ2406500-06	101	100	99
Lab Control Sample	RQ2406531-03	103	99	98
Method Blank	RQ2406531-04	103	98	100

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24
Sample Matrix:	Water	**Date Received:**	05/31/24
		Date Analyzed:	06/9/24
		Date Extracted:	NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name:	OLN-UA002-F008	**Units:**	ug/L
Lab Code:	R2404674-011	**Basis:**	NA
Analysis Method:	8260C		
Prep Method:	EPA 5030C		

		Matrix Spike RQ2406500-05			Duplicate Matrix Spike RQ2406500-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Tetrachloroethene (PCE)	1.0 U	50.8	50.0	102	50.4	50.0	101	72-125	<1	30
Trichloroethene (TCE)	0.73 J	53.2	50.0	105	53.6	50.0	106	74-122	<1	30
Vinyl Chloride	1.0 U	53.0	50.0	106	52.5	50.0	105	74-159	<1	30
cis-1,2-Dichloroethene	0.75 J	57.4	50.0	113	57.5	50.0	114	77-127	<1	30
trans-1,2-Dichloroethene	1.0 U	54.9	50.0	110	54.3	50.0	109	73-118	1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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QA/QC Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Analyzed:**	06/09/24 12:18
Sample Matrix:	Water	**Date Extracted:**	

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	R-MS-17
Lab Code:	RQ2406500-04	**File ID:**	I:\ACQUDATA\MSVOA17\Data\060924\K2717.D\
Analysis Method:	8260C	**Analysis Lot:**	843481
Prep Method:	EPA 5030C		

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ2406500-03	I:\ACQUDATA\MSVOA17\Data\060924 \K2714.D\	06/09/24 11:00
OLN-TB001-T008	R2404674-003	I:\ACQUDATA\MSVOA17\Data\060924 \K2727.D\	06/09/24 16:08
OLN-FB001-B008	R2404674-002	I:\ACQUDATA\MSVOA17\Data\060924 \K2728.D\	06/09/24 16:31
OLN-RU009-F008	R2404674-001	I:\ACQUDATA\MSVOA17\Data\060924 \K2729.D\	06/09/24 16:54
OLN-RU015-F008	R2404674-005	I:\ACQUDATA\MSVOA17\Data\060924 \K2730.D\	06/09/24 17:17
OLN-RU027A-F008	R2404674-009	I:\ACQUDATA\MSVOA17\Data\060924 \K2731.D\	06/09/24 17:40
OLN-RU028-F008	R2404674-010	I:\ACQUDATA\MSVOA17\Data\060924 \K2732.D\	06/09/24 18:03
OLN-UA002-F008	R2404674-011	I:\ACQUDATA\MSVOA17\Data\060924 \K2733.D\	06/09/24 18:26
OLN-RU021-F008	R2404674-008	I:\ACQUDATA\MSVOA17\Data\060924 \K2734.D\	06/09/24 18:49
OLN-RU010-F008	R2404674-004	I:\ACQUDATA\MSVOA17\Data\060924 \K2735.D\	06/09/24 19:12
OLN-RU019-F008	R2404674-006	I:\ACQUDATA\MSVOA17\Data\060924 \K2736.D\	06/09/24 19:35
OLN-RU020-F008	R2404674-007	I:\ACQUDATA\MSVOA17\Data\060924 \K2737.D\	06/09/24 19:58
OLN-UA002-F008MS	RQ2406500-05	I:\ACQUDATA\MSVOA17\Data\060924 \K2738.D\	06/09/24 20:21
OLN-UA002-F008DMS	RQ2406500-06	I:\ACQUDATA\MSVOA17\Data\060924 \K2739.D\	06/09/24 20:44

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Analyzed:**	06/10/24 13:07
Sample Matrix:	Water	**Date Extracted:**	

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: RQ2406531-04
Instrument ID: R-MS-17
File ID: I:\ACQUDATA\MSVOA17\Data\061024\K2748.D\

Analysis Method: 8260C
Prep Method: EPA 5030C
Analysis Lot: 843530

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ2406531-03	I:\ACQUDATA\MSVOA17\Data\061024 \K2745.D\	06/10/24 11:49
OLN-FB002-B008	R2404674-014	I:\ACQUDATA\MSVOA17\Data\061024 \K2749.D\	06/10/24 13:30
OLN-TB002-T008	R2404674-015	I:\ACQUDATA\MSVOA17\Data\061024 \K2750.D\	06/10/24 13:53
OLN-EB001-E008	R2404674-016	I:\ACQUDATA\MSVOA17\Data\061024 \K2751.D\	06/10/24 14:16
OLN-WW18M-F008	R2404674-012	I:\ACQUDATA\MSVOA17\Data\061024 \K2752.D\	06/10/24 14:39
OLN-FD001-D008	R2404674-013	I:\ACQUDATA\MSVOA17\Data\061024 \K2769.D\	06/10/24 21:10

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2406500-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/09/24 12:18	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/09/24 12:18	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/09/24 12:18	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/09/24 12:18	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/09/24 12:18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	06/09/24 12:18	
Dibromofluoromethane	97	80 - 116	06/09/24 12:18	
Toluene-d8	100	87 - 121	06/09/24 12:18	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2406531-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/10/24 13:07	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/10/24 13:07	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/10/24 13:07	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/10/24 13:07	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/10/24 13:07	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	06/10/24 13:07	
Dibromofluoromethane	98	80 - 116	06/10/24 13:07	
Toluene-d8	100	87 - 121	06/10/24 13:07	

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QA/QC Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Analyzed:**	06/09/24 11:00
Sample Matrix:	Water	**Date Extracted:**	

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Lab Control Sample	**Instrument ID:**	R-MS-17
Lab Code:	RQ2406500-03	**File ID:**	I:\ACQUDATA\MSVOA17\Data\060924\K2714.D\
Analysis Method:	8260C	**Analysis Lot:**	843481
Prep Method:	EPA 5030C		

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ2406500-04	I:\ACQUDATA\MSVOA17\Data\060924 \K2717.D\	06/09/24 12:18
OLN-TB001-T008	R2404674-003	I:\ACQUDATA\MSVOA17\Data\060924 \K2727.D\	06/09/24 16:08
OLN-FB001-B008	R2404674-002	I:\ACQUDATA\MSVOA17\Data\060924 \K2728.D\	06/09/24 16:31
OLN-RU009-F008	R2404674-001	I:\ACQUDATA\MSVOA17\Data\060924 \K2729.D\	06/09/24 16:54
OLN-RU015-F008	R2404674-005	I:\ACQUDATA\MSVOA17\Data\060924 \K2730.D\	06/09/24 17:17
OLN-RU027A-F008	R2404674-009	I:\ACQUDATA\MSVOA17\Data\060924 \K2731.D\	06/09/24 17:40
OLN-RU028-F008	R2404674-010	I:\ACQUDATA\MSVOA17\Data\060924 \K2732.D\	06/09/24 18:03
OLN-UA002-F008	R2404674-011	I:\ACQUDATA\MSVOA17\Data\060924 \K2733.D\	06/09/24 18:26
OLN-RU021-F008	R2404674-008	I:\ACQUDATA\MSVOA17\Data\060924 \K2734.D\	06/09/24 18:49
OLN-RU010-F008	R2404674-004	I:\ACQUDATA\MSVOA17\Data\060924 \K2735.D\	06/09/24 19:12
OLN-RU019-F008	R2404674-006	I:\ACQUDATA\MSVOA17\Data\060924 \K2736.D\	06/09/24 19:35
OLN-RU020-F008	R2404674-007	I:\ACQUDATA\MSVOA17\Data\060924 \K2737.D\	06/09/24 19:58
OLN-UA002-F008MS	RQ2406500-05	I:\ACQUDATA\MSVOA17\Data\060924 \K2738.D\	06/09/24 20:21
OLN-UA002-F008DMS	RQ2406500-06	I:\ACQUDATA\MSVOA17\Data\060924 \K2739.D\	06/09/24 20:44

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Analyzed:**	06/10/24 11:49
Sample Matrix:	Water	**Date Extracted:**	

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample **Instrument ID:** R-MS-17
Lab Code: RQ2406531-03 **File ID:** I:\ACQUDATA\MSVOA17\Data\061024\K2745.D\

Analysis Method: 8260C **Analysis Lot:** 843530
Prep Method: EPA 5030C

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ2406531-04	I:\ACQUDATA\MSVOA17\Data\061024\K2748.D\	06/10/24 13:07
OLN-FB002-B008	R2404674-014	I:\ACQUDATA\MSVOA17\Data\061024\K2749.D\	06/10/24 13:30
OLN-TB002-T008	R2404674-015	I:\ACQUDATA\MSVOA17\Data\061024\K2750.D\	06/10/24 13:53
OLN-EB001-E008	R2404674-016	I:\ACQUDATA\MSVOA17\Data\061024\K2751.D\	06/10/24 14:16
OLN-WW18M-F008	R2404674-012	I:\ACQUDATA\MSVOA17\Data\061024\K2752.D\	06/10/24 14:39
OLN-FD001-D008	R2404674-013	I:\ACQUDATA\MSVOA17\Data\061024\K2769.D\	06/10/24 21:10

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QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 9-Month/300-082.0043
Sample Matrix: Water

Service Request: R2404674
Date Analyzed: 06/09/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2406500-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Tetrachloroethene (PCE)	8260C	18.1	20.0	91	72-125
Trichloroethene (TCE)	8260C	18.8	20.0	94	74-122
Vinyl Chloride	8260C	18.6	20.0	93	74-159
cis-1,2-Dichloroethene	8260C	19.8	20.0	99	80-121
trans-1,2-Dichloroethene	8260C	19.3	20.0	96	73-118

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 9-Month/300-082.0043
Sample Matrix: Water

Service Request: R2404674
Date Analyzed: 06/10/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2406531-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Tetrachloroethene (PCE)	8260C	19.5	20.0	97	72-125
Trichloroethene (TCE)	8260C	19.8	20.0	99	74-122
Vinyl Chloride	8260C	19.1	20.0	96	74-159
cis-1,2-Dichloroethene	8260C	20.7	20.0	103	80-121
trans-1,2-Dichloroethene	8260C	20.0	20.0	100	73-118

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2404674
Project: Olean OU3 9-Month/300-082.0043 **Date Analyzed:**06/09/24 09:55

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA17\Data\060924\K2712.D\ **Analytical Method:** 8260C
Instrument ID: R-MS-17 **Analysis Lot:** 843481

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	19.5	42941	Pass
75	95	30	60	49.8	109440	Pass
95	95	100	100	100.0	219731	Pass
96	95	5	9	6.8	14950	Pass
173	174	0	2	0.8	1389	Pass
174	95	50	120	79.2	174127	Pass
175	174	5	9	7.3	12772	Pass
176	174	95	101	97.3	169451	Pass
177	176	5	9	6.4	10801	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ2406500-02	I:\ACQUDATA\MSVOA17\Data\060924\K2713.D\	06/09/24 10:28	
Lab Control Sample	RQ2406500-03	I:\ACQUDATA\MSVOA17\Data\060924\K2714.D\	06/09/24 11:00	
Method Blank	RQ2406500-04	I:\ACQUDATA\MSVOA17\Data\060924\K2717.D\	06/09/24 12:18	
OLN-TB001-T008	R2404674-003	I:\ACQUDATA\MSVOA17\Data\060924\K2727.D\	06/09/24 16:08	
OLN-FB001-B008	R2404674-002	I:\ACQUDATA\MSVOA17\Data\060924\K2728.D\	06/09/24 16:31	
OLN-RU009-F008	R2404674-001	I:\ACQUDATA\MSVOA17\Data\060924\K2729.D\	06/09/24 16:54	
OLN-RU015-F008	R2404674-005	I:\ACQUDATA\MSVOA17\Data\060924\K2730.D\	06/09/24 17:17	
OLN-RU027A-F008	R2404674-009	I:\ACQUDATA\MSVOA17\Data\060924\K2731.D\	06/09/24 17:40	
OLN-RU028-F008	R2404674-010	I:\ACQUDATA\MSVOA17\Data\060924\K2732.D\	06/09/24 18:03	
OLN-UA002-F008	R2404674-011	I:\ACQUDATA\MSVOA17\Data\060924\K2733.D\	06/09/24 18:26	
OLN-RU021-F008	R2404674-008	I:\ACQUDATA\MSVOA17\Data\060924\K2734.D\	06/09/24 18:49	
OLN-RU010-F008	R2404674-004	I:\ACQUDATA\MSVOA17\Data\060924\K2735.D\	06/09/24 19:12	
OLN-RU019-F008	R2404674-006	I:\ACQUDATA\MSVOA17\Data\060924\K2736.D\	06/09/24 19:35	
OLN-RU020-F008	R2404674-007	I:\ACQUDATA\MSVOA17\Data\060924\K2737.D\	06/09/24 19:58	
OLN-UA002-F008	RQ2406500-05	I:\ACQUDATA\MSVOA17\Data\060924\K2738.D\	06/09/24 20:21	
OLN-UA002-F008	RQ2406500-06	I:\ACQUDATA\MSVOA17\Data\060924\K2739.D\	06/09/24 20:44	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2404674
Project: Olean OU3 9-Month/300-082.0043 **Date Analyzed:**06/10/24 10:36

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA17\Data\061024\K2743.D\ **Analytical Method:** 8260C
Instrument ID: R-MS-17 **Analysis Lot:** 843530

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	18.9	40941	Pass
75	95	30	60	50.1	108771	Pass
95	95	100	100	100.0	217173	Pass
96	95	5	9	6.8	14679	Pass
173	174	0	2	0.8	1445	Pass
174	95	50	120	78.7	170859	Pass
175	174	5	9	7.3	12482	Pass
176	174	95	101	97.9	167211	Pass
177	176	5	9	6.6	10986	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ2406531-02	I:\ACQUDATA\MSVOA17\Data\061024\K2744.D\	06/10/24 11:17	
Lab Control Sample	RQ2406531-03	I:\ACQUDATA\MSVOA17\Data\061024\K2745.D\	06/10/24 11:49	
Method Blank	RQ2406531-04	I:\ACQUDATA\MSVOA17\Data\061024\K2748.D\	06/10/24 13:07	
OLN-FB002-B008	R2404674-014	I:\ACQUDATA\MSVOA17\Data\061024\K2749.D\	06/10/24 13:30	
OLN-TB002-T008	R2404674-015	I:\ACQUDATA\MSVOA17\Data\061024\K2750.D\	06/10/24 13:53	
OLN-EB001-E008	R2404674-016	I:\ACQUDATA\MSVOA17\Data\061024\K2751.D\	06/10/24 14:16	
OLN-WW18M-F008	R2404674-012	I:\ACQUDATA\MSVOA17\Data\061024\K2752.D\	06/10/24 14:39	
OLN-FD001-D008	R2404674-013	I:\ACQUDATA\MSVOA17\Data\061024\K2769.D\	06/10/24 21:10	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2404674
Project: Olean OU3 9-Month/300-082.0043 **Date Analyzed:**06/09/24 10:28

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA17\Data\060924\K2713.D\ **Lab Code:**RQ2406500-02
Instrument ID: R-MS-17 **Analysis Lot:**843481
Analysis Method: 8260C **Signal ID:**1

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	310,656	11.64	695,434	6.17	625,746	9.57
	Upper Limit ==>	621,312	11.81	1,390,868	6.34	1,251,492	9.74
	Lower Limit ==>	155,328	11.47	347,717	6.00	312,873	9.40
Associated Analyses							
Lab Control Sample	RQ2406500-03	315248	11.64	720643	6.17	640455	9.57
Method Blank	RQ2406500-04	296067	11.64	714752	6.17	633810	9.57
OLN-TB001-T008	R2404674-003	297852	11.65	718334	6.17	641991	9.57
OLN-FB001-B008	R2404674-002	301574	11.65	705850	6.17	633371	9.57
OLN-RU009-F008	R2404674-001	304345	11.64	725217	6.18	648288	9.57
OLN-RU015-F008	R2404674-005	296097	11.64	709496	6.17	636526	9.57
OLN-RU027A-F008	R2404674-009	299408	11.65	694645	6.18	622919	9.57
OLN-RU028-F008	R2404674-010	288588	11.64	704877	6.18	628022	9.57
OLN-UA002-F008	R2404674-011	299436	11.65	713675	6.17	636709	9.57
OLN-RU021-F008	R2404674-008	294030	11.64	695786	6.18	611602	9.57
OLN-RU010-F008	R2404674-004	306260	11.64	709873	6.17	646538	9.57
OLN-RU019-F008	R2404674-006	312639	11.64	700915	6.18	635805	9.57
OLN-RU020-F008	R2404674-007	303220	11.64	706590	6.17	636305	9.57
OLN-UA002-F008MS	RQ2406500-05	301337	11.65	689775	6.18	613627	9.57
OLN-UA002-F008DMS	RQ2406500-06	302320	11.65	683909	6.17	609050	9.57

QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2404674
Project: Olean OU3 9-Month/300-082.0043 **Date Analyzed:**06/09/24 10:28

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA17\Data\060924\K2713.D\ **Lab Code:**RQ2406500-02
Instrument ID: R-MS-17 **Analysis Lot:**843481
Analysis Method: 8260C **Signal ID:**1

		Pentafluorobenzene	
		Area	**RT**
	Result ==>	447,985	4.99
	Upper Limit ==>	895,970	5.16
	Lower Limit ==>	223,993	4.82
Associated Analyses			
Lab Control Sample	RQ2406500-03	460992	4.99
Method Blank	RQ2406500-04	455444	4.99
OLN-TB001-T008	R2404674-003	456632	4.99
OLN-FB001-B008	R2404674-002	443961	4.99
OLN-RU009-F008	R2404674-001	458143	4.99
OLN-RU015-F008	R2404674-005	445479	4.99
OLN-RU027A-F008	R2404674-009	441335	4.99
OLN-RU028-F008	R2404674-010	445079	4.99
OLN-UA002-F008	R2404674-011	448584	4.99
OLN-RU021-F008	R2404674-008	436483	4.99
OLN-RU010-F008	R2404674-004	447808	4.99
OLN-RU019-F008	R2404674-006	443312	4.99
OLN-RU020-F008	R2404674-007	443825	4.99
OLN-UA002-F008MS	RQ2406500-05	438183	4.99
OLN-UA002-F008DMS	RQ2406500-06	433114	4.99

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QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2404674
Project: Olean OU3 9-Month/300-082.0043 **Date Analyzed:**06/10/24 11:17

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA17\Data\061024\K2744.D\ **Lab Code:**RQ2406531-02
Instrument ID: R-MS-17 **Analysis Lot:**843530
Analysis Method: 8260C **Signal ID:**1

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	313,015	11.65	712,379	6.17	634,017	9.57
	Upper Limit ==>	626,030	11.82	1,424,758	6.34	1,268,034	9.74
	Lower Limit ==>	156,508	11.48	356,190	6.00	317,009	9.40
Associated Analyses							
Lab Control Sample	RQ2406531-03	310836	11.64	711818	6.17	635275	9.57
Method Blank	RQ2406531-04	303176	11.64	715015	6.17	638327	9.57
OLN-FB002-B008	R2404674-014	304523	11.64	727130	6.17	651405	9.57
OLN-TB002-T008	R2404674-015	297067	11.65	704179	6.17	629172	9.57
OLN-EB001-E008	R2404674-016	299368	11.64	704043	6.18	632246	9.57
OLN-WW18M-F008	R2404674-012	299987	11.65	700024	6.17	631636	9.57
OLN-FD001-D008	R2404674-013	298930	11.64	678644	6.18	607562	9.57

QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2404674
Project: Olean OU3 9-Month/300-082.0043 **Date Analyzed:**06/10/24 11:17

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA17\Data\061024\K2744.D\ **Lab Code:**RQ2406531-02
Instrument ID: R-MS-17 **Analysis Lot:**843530
Analysis Method: 8260C **Signal ID:**1

		Pentafluorobenzene	
		Area	**RT**
	Result ==>	456,563	4.99
	Upper Limit ==>	913,126	5.16
	Lower Limit ==>	228,282	4.82
Associated Analyses			
Lab Control Sample	RQ2406531-03	460913	4.99
Method Blank	RQ2406531-04	452990	4.99
OLN-FB002-B008	R2404674-014	462898	4.99
OLN-TB002-T008	R2404674-015	445114	4.99
OLN-EB001-E008	R2404674-016	453520	4.99
OLN-WW18M-F008	R2404674-012	448721	4.99
OLN-FD001-D008	R2404674-013	433628	4.99

Volatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory
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Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24
Sample Matrix:	Water	**Date Received:**	05/31/24
		Date Analyzed:	06/7/24

Duplicate Matrix Spike Summary
Dissolved Gases by GC/FID

Sample Name:	OLN-UA002-F008	**Units:**	ug/L
Lab Code:	R2404674-011	**Basis:**	NA
Analysis Method:	RSK 175		

		Matrix Spike RQ2406492-05			Duplicate Matrix Spike RQ2406492-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Ethane	10 U	249	260	96	244	260	94	76-126	2	20
Ethene	10 U	258	243	106	252	243	104	67-132	2	20
Methane	610 E	1040	262	166 *	1020	262	157 *	46-143	2	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2404674
Project: Olean OU3 9-Month/300-082.0043 **Date Analyzed:** 06/07/24 11:15
Sample Matrix: Water

Method Blank Summary
Dissolved Gases by GC/FID

Sample Name: Method Blank **Instrument ID:**R-GC-70
Lab Code: RQ2406492-02 **File ID:**I:\ACQUDATA\GC-70\DATA\060724\A0556.D\

Analysis Method: RSK 175 **Analysis Lot:**843395

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ2406492-03	I:\ACQUDATA\GC-70\DATA\060724\A0557.D\	06/07/24 11:29
OLN-RU009-F008	R2404674-001	I:\ACQUDATA\GC-70\DATA\060724\A0559.D\	06/07/24 12:51
OLN-FB001-B008	R2404674-002	I:\ACQUDATA\GC-70\DATA\060724\A0560.D\	06/07/24 13:05
OLN-RU010-F008	R2404674-004	I:\ACQUDATA\GC-70\DATA\060724\A0561.D\	06/07/24 13:21
OLN-RU015-F008	R2404674-005	I:\ACQUDATA\GC-70\DATA\060724\A0562.D\	06/07/24 13:32
OLN-RU019-F008	R2404674-006	I:\ACQUDATA\GC-70\DATA\060724\A0564.D\	06/07/24 14:00
OLN-RU020-F008	R2404674-007	I:\ACQUDATA\GC-70\DATA\060724\A0565.D\	06/07/24 14:12
OLN-RU021-F008	R2404674-008	I:\ACQUDATA\GC-70\DATA\060724\A0566.D\	06/07/24 14:23
OLN-RU027A-F008	R2404674-009	I:\ACQUDATA\GC-70\DATA\060724\A0567.D\	06/07/24 14:35
OLN-RU028-F008	R2404674-010	I:\ACQUDATA\GC-70\DATA\060724\A0569.D\	06/07/24 14:59
OLN-UA002-F008	R2404674-011	I:\ACQUDATA\GC-70\DATA\060724\A0570.D\	06/07/24 15:10
OLN-UA002-F008	R2404674-011	I:\ACQUDATA\GC-70\DATA\060724\A0571.D\	06/07/24 15:22
OLN-UA002-F008MS	RQ2406492-05	I:\ACQUDATA\GC-70\DATA\060724\A0572.D\	06/07/24 15:33
OLN-UA002-F008DMS	RQ2406492-06	I:\ACQUDATA\GC-70\DATA\060724\A0573.D\	06/07/24 15:45
OLN-FB002-B008	R2404674-014	I:\ACQUDATA\GC-70\DATA\060724\A0576.D\	06/07/24 16:22
OLN-EB001-E008	R2404674-016	I:\ACQUDATA\GC-70\DATA\060724\A0577.D\	06/07/24 16:33
OLN-FD001-D008	R2404674-013	I:\ACQUDATA\GC-70\DATA\060724\A0578.D\	06/07/24 16:46
OLN-FD001-D008	R2404674-013	I:\ACQUDATA\GC-70\DATA\060724\A0579.D\	06/07/24 17:09

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2406492-02	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	06/07/24 11:15	
Ethene	5.0 U	5.0	1.3	1	06/07/24 11:15	
Methane	5.2 U	5.2	3.0	1	06/07/24 11:15	

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QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2404674
Project: Olean OU3 9-Month/300-082.0043 **Date Analyzed:** 06/07/24 11:29
Sample Matrix: Water

Lab Control Sample Summary
Dissolved Gases by GC/FID

Sample Name: Lab Control Sample **Instrument ID:**R-GC-70
Lab Code: RQ2406492-03 **File ID:**I:\ACQUDATA\GC-70\DATA\060724\A0557.D\

Analysis Method: RSK 175 **Analysis Lot:**843395

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ2406492-02	I:\ACQUDATA\GC-70\DATA\060724\A0556.D\	06/07/24 11:15
OLN-RU009-F008	R2404674-001	I:\ACQUDATA\GC-70\DATA\060724\A0559.D\	06/07/24 12:51
OLN-FB001-B008	R2404674-002	I:\ACQUDATA\GC-70\DATA\060724\A0560.D\	06/07/24 13:05
OLN-RU010-F008	R2404674-004	I:\ACQUDATA\GC-70\DATA\060724\A0561.D\	06/07/24 13:21
OLN-RU015-F008	R2404674-005	I:\ACQUDATA\GC-70\DATA\060724\A0562.D\	06/07/24 13:32
OLN-RU019-F008	R2404674-006	I:\ACQUDATA\GC-70\DATA\060724\A0564.D\	06/07/24 14:00
OLN-RU020-F008	R2404674-007	I:\ACQUDATA\GC-70\DATA\060724\A0565.D\	06/07/24 14:12
OLN-RU021-F008	R2404674-008	I:\ACQUDATA\GC-70\DATA\060724\A0566.D\	06/07/24 14:23
OLN-RU027A-F008	R2404674-009	I:\ACQUDATA\GC-70\DATA\060724\A0567.D\	06/07/24 14:35
OLN-RU028-F008	R2404674-010	I:\ACQUDATA\GC-70\DATA\060724\A0569.D\	06/07/24 14:59
OLN-UA002-F008	R2404674-011	I:\ACQUDATA\GC-70\DATA\060724\A0570.D\	06/07/24 15:10
OLN-UA002-F008	R2404674-011	I:\ACQUDATA\GC-70\DATA\060724\A0571.D\	06/07/24 15:22
OLN-UA002-F008MS	RQ2406492-05	I:\ACQUDATA\GC-70\DATA\060724\A0572.D\	06/07/24 15:33
OLN-UA002-F008DMS	RQ2406492-06	I:\ACQUDATA\GC-70\DATA\060724\A0573.D\	06/07/24 15:45
OLN-FB002-B008	R2404674-014	I:\ACQUDATA\GC-70\DATA\060724\A0576.D\	06/07/24 16:22
OLN-EB001-E008	R2404674-016	I:\ACQUDATA\GC-70\DATA\060724\A0577.D\	06/07/24 16:33
OLN-FD001-D008	R2404674-013	I:\ACQUDATA\GC-70\DATA\060724\A0578.D\	06/07/24 16:46
OLN-FD001-D008	R2404674-013	I:\ACQUDATA\GC-70\DATA\060724\A0579.D\	06/07/24 17:09

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QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 9-Month/300-082.0043
Sample Matrix: Water

Service Request: R2404674
Date Analyzed: 06/07/24

Lab Control Sample Summary
Dissolved Gases by GC/FID

Units:ug/L
Basis:NA

Lab Control Sample
RQ2406492-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Ethane	RSK 175	137	130	105	85-115
Ethene	RSK 175	125	121	103	85-115
Methane	RSK 175	126	131	96	85-115

Semivolatile Organic Compounds by GC

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Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

QA/QC Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24
Sample Matrix:	Water	**Date Received:**	05/31/24
		Date Analyzed:	06/7/24

Duplicate Matrix Spike Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Sample Name:	OLN-UA002-F008	**Units:**	mg/L
Lab Code:	R2404674-011	**Basis:**	NA
Analysis Method:	Organic Acids		

		Matrix Spike RQ2406547-08			Duplicate Matrix Spike RQ2406547-09					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Acetic Acid	1.0 U	20.5	20.0	102	19.7	20.0	99	10-179	4	30
Butanoic Acid (Butyric Acid)	10 U	22.5	20.0	113	21.3	20.0	107	39-161	6	30
Propionic Acid	2.0 U	21.4	20.0	107	21.6	20.0	108	49-162	<1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2404674
Project: Olean OU3 9-Month/300-082.0043 **Date Analyzed:** 06/07/24 11:37
Sample Matrix: Water

Method Blank Summary

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Sample Name: Method Blank **Instrument ID:** R-HPLC-06
Lab Code: RQ2406547-02 **File ID:** I:\ACQUDATA\HPLC06\Data\060624\A0006845.D\

Analysis Method: Organic Acids **Analysis Lot:** 843554

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ2406547-03	I:\ACQUDATA\HPLC06\Data\060624 \A0006846.D\	06/07/24 12:10
Duplicate Lab Control Sample	RQ2406547-04	I:\ACQUDATA\HPLC06\Data\060624 \A0006847.D\	06/07/24 12:42
OLN-RU009-F008	R2404674-001	I:\ACQUDATA\HPLC06\Data\060624 \A0006852.D\	06/07/24 15:24
OLN-FB001-B008	R2404674-002	I:\ACQUDATA\HPLC06\Data\060624 \A0006853.D\	06/07/24 15:56
OLN-RU010-F008	R2404674-004	I:\ACQUDATA\HPLC06\Data\060624 \A0006854.D\	06/07/24 16:28
OLN-RU015-F008	R2404674-005	I:\ACQUDATA\HPLC06\Data\060624 \A0006855.D\	06/07/24 17:01
OLN-RU020-F008	R2404674-007	I:\ACQUDATA\HPLC06\Data\060624 \A0006857.D\	06/07/24 18:05
OLN-RU021-F008	R2404674-008	I:\ACQUDATA\HPLC06\Data\060624 \A0006858.D\	06/07/24 18:38
OLN-RU028-F008	R2404674-010	I:\ACQUDATA\HPLC06\Data\060624 \A0006860.D\	06/07/24 19:42
OLN-UA002-F008	R2404674-011	I:\ACQUDATA\HPLC06\Data\060624 \A0006862.D\	06/07/24 20:47
OLN-UA002-F008MS	RQ2406547-08	I:\ACQUDATA\HPLC06\Data\060624 \A0006863.D\	06/07/24 21:20
OLN-UA002-F008DMS	RQ2406547-09	I:\ACQUDATA\HPLC06\Data\060624 \A0006864.D\	06/07/24 21:52
OLN-FD001-D008	R2404674-013	I:\ACQUDATA\HPLC06\Data\060624 \A0006865.D\	06/07/24 22:24
OLN-FB002-B008	R2404674-014	I:\ACQUDATA\HPLC06\Data\060624 \A0006866.D\	06/07/24 22:57
OLN-EB001-E008	R2404674-016	I:\ACQUDATA\HPLC06\Data\060624 \A0006867.D\	06/07/24 23:29

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2404674
Project: Olean OU3 9-Month/300-082.0043 **Date Analyzed:** 06/19/24 01:01
Sample Matrix: Water

Method Blank Summary

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Sample Name: Method Blank **Instrument ID:**R-HPLC-06
Lab Code: RQ2407088-02 **File ID:**I:\ACQUDATA\HPLC06\Data\061824\A0007051.D\

Analysis Method: Organic Acids **Analysis Lot:**844642

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ2407088-03	I:\ACQUDATA\HPLC06\Data\061824 \A0007052.D\	06/19/24 01:34
Duplicate Lab Control Sample	RQ2407088-04	I:\ACQUDATA\HPLC06\Data\061824 \A0007053.D\	06/19/24 02:06
OLN-RU019-F008	R2404674-006	I:\ACQUDATA\HPLC06\Data\061824 \A0007054.D\	06/19/24 02:38
OLN-RU027A-F008	R2404674-009	I:\ACQUDATA\HPLC06\Data\061824 \A0007055.D\	06/19/24 03:11

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	mg/L
Lab Code:	RQ2406547-02	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	06/07/24 11:37	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	06/07/24 11:37	
Propionic Acid	2.0 U	2.0	1.1	1	06/07/24 11:37	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	mg/L
Lab Code:	RQ2407088-02	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	06/19/24 01:01	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	06/19/24 01:01	
Propionic Acid	2.0 U	2.0	1.1	1	06/19/24 01:01	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2404674
Project: Olean OU3 9-Month/300-082.0043 **Date Analyzed:** 06/07/24 12:10
Sample Matrix: Water

Lab Control Sample Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Sample Name: Lab Control Sample **Instrument ID:**R-HPLC-06
Lab Code: RQ2406547-03 **File ID:**I:\ACQUDATA\HPLC06\Data\060624\A0006846.D\

Analysis Method: Organic Acids **Analysis Lot:**843554

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ2406547-02	I:\ACQUDATA\HPLC06\Data\060624 \A0006845.D\	06/07/24 11:37
Duplicate Lab Control Sample	RQ2406547-04	I:\ACQUDATA\HPLC06\Data\060624 \A0006847.D\	06/07/24 12:42
OLN-RU009-F008	R2404674-001	I:\ACQUDATA\HPLC06\Data\060624 \A0006852.D\	06/07/24 15:24
OLN-FB001-B008	R2404674-002	I:\ACQUDATA\HPLC06\Data\060624 \A0006853.D\	06/07/24 15:56
OLN-RU010-F008	R2404674-004	I:\ACQUDATA\HPLC06\Data\060624 \A0006854.D\	06/07/24 16:28
OLN-RU015-F008	R2404674-005	I:\ACQUDATA\HPLC06\Data\060624 \A0006855.D\	06/07/24 17:01
OLN-RU020-F008	R2404674-007	I:\ACQUDATA\HPLC06\Data\060624 \A0006857.D\	06/07/24 18:05
OLN-RU021-F008	R2404674-008	I:\ACQUDATA\HPLC06\Data\060624 \A0006858.D\	06/07/24 18:38
OLN-RU028-F008	R2404674-010	I:\ACQUDATA\HPLC06\Data\060624 \A0006860.D\	06/07/24 19:42
OLN-UA002-F008	R2404674-011	I:\ACQUDATA\HPLC06\Data\060624 \A0006862.D\	06/07/24 20:47
OLN-UA002-F008MS	RQ2406547-08	I:\ACQUDATA\HPLC06\Data\060624 \A0006863.D\	06/07/24 21:20
OLN-UA002-F008DMS	RQ2406547-09	I:\ACQUDATA\HPLC06\Data\060624 \A0006864.D\	06/07/24 21:52
OLN-FD001-D008	R2404674-013	I:\ACQUDATA\HPLC06\Data\060624 \A0006865.D\	06/07/24 22:24
OLN-FB002-B008	R2404674-014	I:\ACQUDATA\HPLC06\Data\060624 \A0006866.D\	06/07/24 22:57
OLN-EB001-E008	R2404674-016	I:\ACQUDATA\HPLC06\Data\060624 \A0006867.D\	06/07/24 23:29

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2404674
Project: Olean OU3 9-Month/300-082.0043 **Date Analyzed:** 06/19/24 01:34
Sample Matrix: Water

Lab Control Sample Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Sample Name: Lab Control Sample **Instrument ID:**R-HPLC-06
Lab Code: RQ2407088-03 **File ID:**I:\ACQUDATA\HPLC06\Data\061824\A0007052.D\

Analysis Method: Organic Acids **Analysis Lot:**844642

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ2407088-02	I:\ACQUDATA\HPLC06\Data\061824 \A0007051.D\	06/19/24 01:01
Duplicate Lab Control Sample	RQ2407088-04	I:\ACQUDATA\HPLC06\Data\061824 \A0007053.D\	06/19/24 02:06
OLN-RU019-F008	R2404674-006	I:\ACQUDATA\HPLC06\Data\061824 \A0007054.D\	06/19/24 02:38
OLN-RU027A-F008	R2404674-009	I:\ACQUDATA\HPLC06\Data\061824 \A0007055.D\	06/19/24 03:11

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 9-Month/300-082.0043
Sample Matrix: Water

Service Request: R2404674
Date Analyzed: 06/07/24

Duplicate Lab Control Sample Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Units:mg/L
Basis:NA

		Lab Control Sample RQ2406547-03			Duplicate Lab Control Sample RQ2406547-04					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Acetic Acid	Organic Acids	21.9	20.0	110	21.4	20.0	107	80-130	3	30
Butanoic Acid (Butyric Acid)	Organic Acids	18.4	20.0	92	20.2	20.0	101	86-128	10	30
Propionic Acid	Organic Acids	20.9	20.0	105	20.4	20.0	102	63-153	3	30

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 9-Month/300-082.0043
Sample Matrix: Water

Service Request: R2404674
Date Analyzed: 06/19/24

Duplicate Lab Control Sample Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Units:mg/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2407088-03			RQ2407088-04					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Acetic Acid	Organic Acids	22.4	20.0	112	21.9	20.0	109	80-130	2	30
Butanoic Acid (Butyric Acid)	Organic Acids	21.4	20.0	107	21.2	20.0	106	86-128	<1	30
Propionic Acid	Organic Acids	21.9	20.0	110	19.4	20.0	97	63-153	12	30

Metals

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Form 2

Calibration Verifications

Metals by EPA 6010C

Workorder

R2404674

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 9-Month

06/21/2024

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Form 2 - Calibration Verifications

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 9-Month	**R2404674**	

Metals by EPA 6010C (P)

R-ICP-AES-06_844074		ICV			LLCCV			CCV			CCV			CCV			CCV		
Units ppm	**Run Date**	06/12/24			06/12/24			06/12/24			06/12/24			06/12/24			06/12/24		
	Run Time	18:18			18:26			18:36			19:15			19:53			20:32		
Analyte		Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q
Iron		4.98	**100**		0.105	**105**		5.05	**101**		5.04	**101**		5.05	**101**		5.09	**102**	
Manganese		0.735	**98**		0.0140	**93**		0.739	**98**		0.743	**99**		0.744	**99**		0.745	**99**	

R-ICP-AES-06_844074		LLCCV			CCV		
Units ppm	**Run Date**	06/12/24			06/12/24		
	Run Time	20:39			20:58		
Analyte		Found	%R	Q	Found	%R	Q
Iron		0.111	**111**		5.06	**101**	
Manganese		0.0142	**95**		0.743	**99**	

Q - %Recovery Flag * - %Recovery (%R) Outside Limits

QC ID	%R Limits	
CCV	90 - 110	**5.0** - Fe; **0.750** - Mn
ICV	90 - 110	**5.0** - Fe; **0.750** - Mn
LLCCV	70 - 130	**0.1** - Fe; **0.0150** - Mn

Form 2 - Calibration Verifications

Client Civil & Environmental Consultants, Incorporated (CEC)

Project Olean OU3 9-Month

Workorder **R2404674**

Metals by EPA 6010C (P)

R-ICP-AES-07_843647		ICV			CCV			LLCCV			CCV			CCV			CCV		
Units ug/L	**Run Date**	06/10/24			06/10/24			06/10/24			06/10/24			06/11/24			06/11/24		
	Run Time	15:39			23:20			23:27			23:37			00:15			00:54		
Analyte		Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q
Arsenic		0.990	**99**		0.963	**96**		0.0195	**98**		0.962	**96**		0.962	**96**		0.960	**96**	
Iron		5.05	**101**		5.03	**101**		0.109	**109**		5.02	**100**		5.01	**100**		4.97	**99**	
Manganese		0.745	**99**		0.741	**99**		0.0139	**93**		0.739	**98**		0.742	**99**		0.736	**98**	

R-ICP-AES-07_843647		CCV			LLCCV			CCV		
Units ppm	**Run Date**	06/11/24			06/11/24			06/11/24		
	Run Time	01:30			01:36			01:46		
Analyte		Found	%R	Q	Found	%R	Q	Found	%R	Q
Arsenic		0.971	**97**		0.0188	**94**		0.970	**97**	
Iron		5.04	**101**		0.108	**108**		5.07	**101**	
Manganese		0.742	**99**		0.0141	**94**		0.742	**99**	

Q - %Recovery Flag * - %Recovery (%R) Outside Limits

QC ID	%R Limits	
CCV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn
ICV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn
ICV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn
LLCCV	70 - 130	**0.02** - As; **0.1** - Fe; **0.0150** - Mn

Form 3

Blanks

Metals by EPA 6010C

Workorder

R2404674

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 9-Month

06/21/2024

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Form 3 - Blanks

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 9-Month	**R2404674**	

Metals by EPA 6010C (P)

R-ICP-AES-06_844074			ICB		CCB		CCB		CCB		CCB		CCB	
		Run Date	06/12/24		06/12/24		06/12/24		06/12/24		06/12/24		06/12/24	
		Run Time	18:23		18:39		19:18		19:57		20:35		21:01	
		Units	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Analyte	DL	LOQ	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Iron	70	100	70	U	70	U	70	U	70	U	70	U	70	U
Manganese	4	10	4	U	4	U	4	U	4	U	4	U	4	U

Q - Result Flag * - Result Outside Limits

Form 3 - Blanks

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 9-Month	**R2404674**	

Metals by EPA 6010C (P)

R-ICP-AES-07_843647			ICB		CCB		CCB		CCB		CCB		CCB	
		Run Date	06/10/24		06/10/24		06/10/24		06/11/24		06/11/24		06/11/24	
		Run Time	15:43		23:24		23:40		00:19		00:57		01:33	
		Units	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Analyte	DL	LOQ	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Arsenic	6	10	6	U	6	U	6	U	6	U	6	U	6	U
Iron	70	100	70	U	70	U	70	U	70	U	70	U	70	U
Manganese	4	10	4	U	4	U	4	U	4	U	4	U	4	U

R-ICP-AES-07_843647			CCB		
		Run Date	06/11/24		
		Run Time	01:49		
		Units	ug/L		
Analyte	DL	LOQ	Result	Q	
Arsenic	6	10	6	U	
Iron	70	100	70	U	
Manganese	4	10	4	U	

Q - Result Flag * - Result Outside Limits

Form 4

Interference Checks

Metals by EPA 6010C

Workorder

R2404674

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 9-Month

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Form 4 - Interference Checks

Client Civil & Environmental Consultants, Incorporated (CEC)

Project Olean OU3 9-Month

Workorder **R2404674**

Metals by EPA 6010C

R-ICP-AES-06_844074				ICSA1			ICSAB1			ICSA2			ICSAB2		
Units ug/L			**Run Date**	06/12/24			06/12/24			06/12/24			06/12/24		
			Run Time	18:30			18:33			20:42			20:45		
Analyte	ICSA True	ICSAB True	Limits	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q
Iron	100000	100000	80-120	95800	**96**		96100	**96**		96400	**96**		96500	**96**	
Manganese	NA	500	80-120	4U	NS		501	**100**		4U	NS		502	**100**	

Q - Flag Recovery (%R) Failure (Spiked Analytes)

Spiked Analyte %R Limits 80-120%

* - % Recovery Outside of Limits

Q - Found Conc. above Limit (non-Spiked Analytes)

non-Spiked Analyte Limit is Limits

* - Found Conc. Above Limit

Form 4 - Interference Checks

Client Civil & Environmental Consultants, Incorporated (CEC)

Project Olean OU3 9-Month

Workorder **R2404674**

Metals by EPA 6010C

R-ICP-AES-07_843647				ICSA1			ICSAB1			ICSA2			ICSAB2		
Units ug/L			**Run Date**	06/10/24			06/10/24			06/11/24			06/11/24		
			Run Time	23:30			23:33			01:39			01:43		
Analyte	ICSA True	ICSAB True	Limits	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q
Arsenic	NA	100	80-120	6U	NS		100	**100**		6U	NS		101	**101**	
Iron	100000	100000	80-120	93200	**93**		93900	**94**		94600	**95**		95100	**95**	
Manganese	NA	500	80-120	4U	NS		498	**100**		4U	NS		501	**100**	

Q - Flag Recovery (%R) Failure (Spiked Analytes)

Q - Found Conc. above Limit (non-Spiked Analytes)

Spiked Analyte %R Limits 80-120%

non-Spiked Analyte Limit is Limits

* - % Recovery Outside of Limits

* - Found Conc. Above Limit

Form 5A

Matrix Spike Sample Recovery

Metals by EPA 6010C

Workorder

R2404674

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 9-Month

06/21/2024

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Form 5A - Matrix Spike Sample Recovery

Client Civil & Environmental Consultants, Incorporated (CEC)

Project Olean OU3 9-Month

Workorder **R2404674**

Metals by EPA 6010C (P)

RunID R-ICP-AES-07-843647

OLN-UA002-F008 (R2404674-011)				R2404674-011MS			R2404674-011DMS			
Sample Matrix Water	**Analysis Batch** 843647			**Run Date** 06/11/24			**Run Date** 06/11/24			
Result Units ug/L	**Prep Batch** 439600			**Run Time** 00:28			**Run Time** 00:31			
Prep Method EPA 3005A/3010A	**Prep Date** 06/06/2024			**Prep Amt** 50 mL			**Prep Amt** 50 mL			

Analyte	%R Limits	DF	Sample Result		MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Arsenic, Dissolved	75-125	1	10	U	39	40	**98**		42	40	**104**		20	**6**	
Iron, Dissolved	75-125	1	1910		2920	1000	**100**		2880	1000	**96**		20	**1**	
Manganese, Dissolved	75-125	1	1380		1840	500	**93**		1820	500	**89**		20	**1**	

RPD Relative Percent Difference **%R** %Recovery **Q** %R or RPD Flag **NC** Not Calculated **DF** Dilution Factor

MS\D Matrix Spike \Duplicate **OOL** Out of Limits * %R or RPD OOL **NS** Not Spiked **Amt** weight or volume

Form 5B

Post-Digestion Spike Sample Recovery

Metals by EPA 6010C

Workorder

R2404674

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 9-Month

06/21/2024

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Form 5B - Post-Digestion Spike Sample Recovery

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 9-Month	**R2404674**	

Metals by EPA 6010C (P)

OLN-UA002-F008(SDL) (PDS)	Matrix	Units	DF	Analysis Date
RQ2406607-22	Water	ug/L	1	06/11/24 00:35:00

Analyte	Spike Added	Sample Result	Q	PDS Result	Q	%R	Q	%R Limits
Arsenic, Dissolved	40	10	U	39		97		75-125
Iron, Dissolved	1000	1910		2830		92		75-125
Manganese, Dissolved	500	1380		1790		83		75-125

- %Recovery Flag * - %Recovery Outside Limits NC - Not Calculated NS - Not Spiked

Form 7

Laboratory Control Sample

Metals by EPA 6010C

Workorder

R2404674

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 9-Month

06/21/2024

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Form 7 - Laboratory Control Sample

Client Civil & Environmental Consultants, Incorporated (CEC)

Project Olean OU3 9-Month

Workorder **R2404674**

Metals by EPA 6010C (P)

RunID R-ICP-AES-07-843647

R-ICP-AES-07_843647			R2404674-LCS		
Spike Matrix Water	**Analysis Batch** ug/L		**Run Date** 06/10/24		
Result Units 06/06/24	**Prep Batch** 843647		**Run Time** 23:46		
Prep Method EPA 3005A/3010A	**Prep Date** 439600		**Prep Amt** 50 mL		

Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q
Arsenic	80-120	40	38	**95**	
Iron	80-120	1000	998	**100**	
Manganese	80-120	500	481	**96**	

Form 9

ICP Serial Dilutions

Metals by EPA 6010C

Workorder

R2404674

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 9-Month

06/21/2024

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Form 9 - ICP Serial Dilutions

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 9-Month	**R2404674**	

Metals by EPA 6010C (P)

OLN-UA002-F008(SDL) (SD)	**Matrix**	**Analysis Date**	**Units**
RQ2406607-23	Water	06/11/24 00:38:00	ug/L

Analyte	Dilution	DL	LOQ	Sample Result	SD Result	Diff	Q	DL x 50
Arsenic, Dissolved	5	6	10	10 U	50 U	NC		300
Iron, Dissolved	5	70	100	1910	1970	NC		3500
Manganese, Dissolved	5	4	10	1380	1410	2		200

NC - Sample and/or Serial Dilution result(s) do not meet criteria for evaluation. %Diff Not Calculated.

Form 9 - ICP Serial Dilutions

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 9-Month	**R2404674**	

Metals by EPA 6010C (P)

OLN-RU027A-F008(SDL) (SD)	**Matrix**	**Analysis Date**	**Units**
RQ2406813-19	Water	06/12/24 18:55:50	ug/L

Analyte	Dilution	DL	LOQ	Sample Result	SD Result	Diff	Q	DL x 50
Iron, Dissolved	250	3100	5000	124000	126000	NC		155000
Manganese, Dissolved	250	190	500	91700	92700	1		9500

NC - Sample and/or Serial Dilution result(s) do not meet criteria for evaluation. %Diff Not Calculated.

Form 10

Detection Limits

Metals by EPA 6010C

Workorder

R2404674

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 9-Month

06/21/2024

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Form 10 - Detection Limits

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 9-Month	**R2404674**	

Metals by EPA 6010C (P)

Analyte	CAS	Units	DL	LOQ	Prep Method	Leach Method
Arsenic, Dissolved	7440-38-2	ug/L	6	10	EPA 3005A/3010A	NA
Iron, Dissolved	7439-89-6	ug/L	70	100	EPA 3005A/3010A	NA
Manganese, Dissolved	7439-96-5	ug/L	4	10	EPA 3005A/3010A	NA

Form 12

Linear Ranges

Metals by EPA 6010C

Workorder

R2404674

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 9-Month

06/21/2024

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Form 12 - Linear Ranges

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 9-Month	**R2404674**	

Metals by EPA 6010C (P)

Analyte	Linear Range	Units
AG 328	1	mg/L
AL 237	500	mg/L
AS 188	4	mg/L
B 249	10	mg/L
BA 233	40	mg/L
BE 313	1	mg/L
CA 227	250	mg/L
CD 226	2	mg/L
CO 228	10	mg/L
CR 267	10	mg/L
CU 324	4	mg/L
FE 259	50	mg/L
K 766	150	mg/L
MG 279	500	mg/L
MN 257	10	mg/L
MO 202	10	mg/L
NA 589	200	mg/L
NI 231	8	mg/L
PB 220	10	mg/L
SB 206	10	mg/L
SE 196	2	mg/L
SI 252	20	mg/L
SN 189	10	mg/L
SR 421	10	mg/L
TI 337	10	mg/L
TL 191	3	mg/L
V 292	10	mg/L
ZN 206	4	mg/L

right solutions.
right partner.

Analysis Run Log

Metals by EPA 6010C

Workorder

R2404674

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 9-Month

06/21/2024

ALS Environmental–Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Form 14 - Analysis Run Log

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 9-Month	**R2404674**	

Metals by EPA 6010C (P)

R-ICP-AES-06_844074	Instrument ID	Start Date	End Date
	R-ICP-AES-06	06/12/24	06/12/24

Time	Type	Sample ID	Dilution	Analytes
18:18	ICV	Initial Calibraton Verification	1	Fe,Mn
18:23	ICB	Initial Calibration Blank	1	Fe,Mn
18:26	LLCCV	Low Level Continuing Calibration Verification	1	Fe,Mn
18:30	ICSA	Interference Check Solution A	1	Fe,Mn
18:33	ICSAB	Interference Check Solution AB	1	Fe,Mn
18:36	CCV	Continuing Calibration Verification	1	Fe,Mn
18:39	CCB	Continuing Calibration Blank	1	Fe,Mn
18:49	SMPL	OLN-RU019-F008	50	Fe,Mn
18:52	SMPL	OLN-RU027A-F008	50	Fe,Mn
18:55	SD	OLN-RU027A-F008	250	Fe,Mn
19:15	CCV	Continuing Calibration Verification	1	Fe,Mn
19:18	CCB	Continuing Calibration Blank	1	Fe,Mn
19:53	CCV	Continuing Calibration Verification	1	Fe,Mn
19:57	CCB	Continuing Calibration Blank	1	Fe,Mn
20:32	CCV	Continuing Calibration Verification	1	Fe,Mn
20:35	CCB	Continuing Calibration Blank	1	Fe,Mn
20:39	LLCCV	Low Level Continuing Calibration Verification	1	Fe,Mn
20:42	ICSA	Interference Check Solution A	1	Fe,Mn
20:45	ICSAB	Interference Check Solution AB	1	Fe,Mn
20:58	CCV	Continuing Calibration Verification	1	Fe,Mn
21:01	CCB	Continuing Calibration Blank	1	Fe,Mn

Form 14 - Analysis Run Log

Client Civil & Environmental Consultants, Incorporated (CEC)

Project Olean OU3 9-Month

Workorder **R2404674**

Metals by EPA 6010C (P)

R-ICP-AES-07_843647	Instrument ID	Start Date	End Date
	R-ICP-AES-07	06/10/24	06/11/24

Time	Type	Sample ID	Dilution	Analytes
15:39	ICV	Initial Calibraton Verification	1	As,Fe,Mn
15:43	ICB	Initial Calibration Blank	1	As,Fe,Mn
23:20	CCV	Continuing Calibration Verification	1	As,Fe,Mn
23:24	CCB	Continuing Calibration Blank	1	As,Fe,Mn
23:27	LLCCV	Low Level Continuing Calibration Verification	1	As,Fe,Mn
23:30	ICSA	Interference Check Solution A	1	As,Fe,Mn
23:33	ICSAB	Interference Check Solution AB	1	As,Fe,Mn
23:37	CCV	Continuing Calibration Verification	1	As,Fe,Mn
23:40	CCB	Continuing Calibration Blank	1	As,Fe,Mn
23:43	MB	MB-R2404674-MB Method Blank	1	As,Fe,Mn
23:46	LCS	LCS-R2404674-LCS Lab Control Sample	1	As,Fe,Mn
23:49	SMPL	OLN-RU009-F008	1	As,Fe,Mn
23:53	SMPL	OLN-FB001-B008	1	As,Fe,Mn
23:56	SMPL	OLN-RU010-F008	1	As,Fe,Mn
23:59	SMPL	OLN-RU015-F008	1	As,Fe,Mn
00:02	SMPL	OLN-RU019-F008	1	As
00:06	SMPL	OLN-RU020-F008	1	As,Fe,Mn
00:09	SMPL	OLN-RU021-F008	1	As,Fe,Mn
00:12	SMPL	OLN-RU027A-F008	1	As
00:15	CCV	Continuing Calibration Verification	1	As,Fe,Mn
00:19	CCB	Continuing Calibration Blank	1	As,Fe,Mn
00:22	SMPL	OLN-RU028-F008	1	As,Fe,Mn
00:25	SMPL	OLN-UA002-F008	1	As,Fe,Mn
00:28	MS	OLN-UA002-F008	1	As,Fe,Mn
00:31	DMS	OLN-UA002-F008	1	As,Fe,Mn
00:35	PS	OLN-UA002-F008	1	As,Fe,Mn
00:38	SD	OLN-UA002-F008	5	As,Fe,Mn

Form 14 - Analysis Run Log

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 9-Month	**R2404674**	

Metals by EPA 6010C (P)

R-ICP-AES-07_843647	Instrument ID	Start Date	End Date
	R-ICP-AES-07	06/10/24	06/11/24

Time	Type	Sample ID	Dilution	Analytes
00:41	SMPL	OLN-WW18M-F008	1	As,Fe,Mn
00:44	SMPL	OLN-FD001-D008	1	As,Fe,Mn
00:48	SMPL	OLN-FB002-B008	1	As,Fe,Mn
00:51	SMPL	OLN-EB001-E008	1	As,Fe,Mn
00:54	CCV	Continuing Calibration Verification	1	As,Fe,Mn
00:57	CCB	Continuing Calibration Blank	1	As,Fe,Mn
01:30	CCV	Continuing Calibration Verification	1	As,Fe,Mn
01:33	CCB	Continuing Calibration Blank	1	As,Fe,Mn
01:36	LLCCV	Low Level Continuing Calibration Verification	1	As,Fe,Mn
01:39	ICSA	Interference Check Solution A	1	As,Fe,Mn
01:43	ICSAB	Interference Check Solution AB	1	As,Fe,Mn
01:46	CCV	Continuing Calibration Verification	1	As,Fe,Mn
01:49	CCB	Continuing Calibration Blank	1	As,Fe,Mn

General Chemistry

ALS Environmental—Rochester Laboratory
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Phone (585) 288-5380 Fax (585) 288-8475
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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R2404674-MB1		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	5.0	U	mg/L	5.0	3.8	1	06/07/24 14:01	
Sulfate	300.0	0.20	U	mg/L	0.20	0.04	1	06/14/24 21:29	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R2404674-MB2		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	5.0	U	mg/L	5.0	3.8	1	06/07/24 14:01	
Sulfate	300.0	0.20	U	mg/L	0.20	0.04	1	06/15/24 00:00	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R2404674-MB3		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	5.0	U	mg/L	5.0	3.8	1	06/07/24 16:46	
Sulfate	300.0	0.20	U	mg/L	0.20	0.04	1	06/16/24 07:09	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R2404674-MB4		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	5.0	U	mg/L	5.0	3.8	1	06/07/24 16:46	
Sulfate	300.0	0.20	U	mg/L	0.20	0.04	1	06/18/24 19:37	

ALS Group USA, Corp.
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QA/QC Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24
Sample Matrix:	Water	**Date Received:**	05/31/24
		Date Analyzed:	06/16/24

Duplicate Matrix Spike Summary
Sulfate

Sample Name:	OLN-RU010-F008	**Units:**	mg/L
Lab Code:	R2404674-004	**Basis:**	NA
Analysis Method:	300.0		

		Matrix Spike			Duplicate Matrix Spike					
		R2404674-004MS			R2404674-004DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Sulfate	197	319	100	122 *	331	100	133 *	90-110	4	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 9-Month/300-082.0043
Sample Matrix: Water

Service Request:R2404674
Date Collected:05/29/24
Date Received:05/31/24
Date Analyzed:06/07/24 - 06/15/24

Duplicate Matrix Spike Summary
General Chemistry Parameters

Sample Name: OLN-UA002-F008
Lab Code: R2404674-011

Units:mg/L
Basis:NA

			Matrix Spike				Duplicate Matrix Spike				
			R2404674-011MS				R2404674-011DMS				
Analyte Name	**Method**	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Chemical Oxygen Demand, Total	Hach 8000 (1979)	11.5	36.4	25.0	100	34.5	25.0	92	90-110	5	20
Sulfate	300.0	49.1	65.7	20.0	83 *	65.4	20.0	82 *	90-110	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Superset Reference:24-0000699062 rev 00

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QA/QC Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24
Sample Matrix:	Water	**Date Received:**	05/31/24
		Date Analyzed:	06/18/24

Duplicate Matrix Spike Summary
Sulfate

Sample Name:	OLN-FD001-D008	**Units:**	mg/L
Lab Code:	R2404674-013	**Basis:**	NA
Analysis Method:	300.0		

		Matrix Spike			Duplicate Matrix Spike					
		R2404674-013MS			R2404674-013DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Sulfate	98.8	138	40.0	99	139	40.0	100	90-110	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 9-Month/300-082.0043
Sample Matrix: Water

Service Request: R2404674
Date Analyzed: 06/07/24 - 06/14/24

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2404674-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chemical Oxygen Demand, Total	Hach 8000 (1979)	519	500	104	90-110
Sulfate	300.0	1.94	2.00	97	90-110

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 9-Month/300-082.0043
Sample Matrix: Water

Service Request: R2404674
Date Analyzed: 06/07/24 - 06/15/24

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2404674-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chemical Oxygen Demand, Total	Hach 8000 (1979)	517	500	103	90-110
Sulfate	300.0	1.92	2.00	96	90-110

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 9-Month/300-082.0043
Sample Matrix: Water

Service Request: R2404674
Date Analyzed: 06/07/24 - 06/16/24

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2404674-LCS3

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chemical Oxygen Demand, Total	Hach 8000 (1979)	52.3	50.0	105	90-110
Sulfate	300.0	1.89	2.00	95	90-110

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 9-Month/300-082.0043
Sample Matrix: Water

Service Request: R2404674
Date Analyzed: 06/07/24 - 06/18/24

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2404674-LCS4

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chemical Oxygen Demand, Total	Hach 8000 (1979)	52.8	50.0	106	90-110
Sulfate	300.0	2.04	2.00	102	90-110

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2404674
Project: Olean OU3 9-Month/300-082.0043

Continuing Calibration Blank (CCB) Summary

Chemical Oxygen Demand, Total

Analysis Method: Hach 8000 (1979) **Units:**mg/L

	Analysis Lot	Lab Code	Date Analyzed	MRL	MDL	Result	Q
CCB1	843688	RQ2406669-02	06/07/24 14:01	5.0	3.8	5.0	U
CCB2	843688	RQ2406669-06	06/07/24 14:01	5.0	3.8	5.0	U
CCB3	843688	RQ2406669-12	06/07/24 14:01	5.0	3.8	5.0	U
CCB4	843688	RQ2406669-16	06/07/24 14:01	5.0	3.8	5.0	U
CCB5	843689	RQ2406670-02	06/07/24 14:01	5.0	3.8	5.0	U
CCB6	843689	RQ2406670-06	06/07/24 14:01	5.0	3.8	5.0	U
CCB7	843692	RQ2406672-02	06/07/24 16:46	5.0	3.8	5.0	U
CCB8	843692	RQ2406672-06	06/07/24 16:46	5.0	3.8	5.0	U
CCB9	843692	RQ2406672-10	06/07/24 16:46	5.0	3.8	5.0	U
CCB10	843693	RQ2406674-02	06/07/24 16:46	5.0	3.8	5.0	U
CCB11	843693	RQ2406674-06	06/07/24 16:46	5.0	3.8	5.0	U

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2404674
Project: Olean OU3 9-Month/300-082.0043

Continuing Calibration Blank (CCB) Summary

Sulfate

Analysis Method: 300.0 **Units:**mg/L

	Analysis Lot	Lab Code	Date Analyzed	MRL	MDL	Result	Q
CCB1	844263	RQ2406890-02	06/16/24 07:09	0.20	0.04	0.20	U
CCB2	844263	RQ2406890-08	06/16/24 10:03	0.20	0.04	0.20	U
CCB3	844315	RQ2406992-02	06/14/24 21:29	0.20	0.04	0.20	U
CCB4	844315	RQ2406992-08	06/14/24 22:44	0.20	0.04	0.20	U
CCB5	844315	RQ2406992-12	06/15/24 00:00	0.20	0.04	0.20	U
CCB6	844316	RQ2406993-02	06/15/24 00:00	0.20	0.04	0.20	U
CCB7	844316	RQ2406993-08	06/15/24 01:15	0.20	0.04	0.20	U
CCB8	844316	RQ2406993-10	06/15/24 02:12	0.20	0.04	0.20	U
CCB9	844610	RQ2407075-02	06/18/24 19:37	0.20	0.04	0.20	U
CCB10	844610	RQ2407075-08	06/18/24 20:52	0.20	0.04	0.20	U
CCB11	844610	RQ2407075-12	06/18/24 21:55	0.20	0.04	0.20	U

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2404674
Project: Olean OU3 9-Month/300-082.0043

Continuing Calibration Verification (CCV) Summary

Chemical Oxygen Demand, Total

Analysis Method: Hach 8000 (1979) **Units:** mg/L

	Analysis Lot	Lab Code	Date Analyzed	True Value	Measured Value	Percent Recovery	Acceptance Limits
CCV1	843688	RQ2406669-01	06/07/24 14:01	500	519	104	90-110
CCV2	843688	RQ2406669-05	06/07/24 14:01	500	516	103	90-110
CCV3	843688	RQ2406669-11	06/07/24 14:01	500	512	102	90-110
CCV4	843688	RQ2406669-15	06/07/24 14:01	500	517	103	90-110
CCV5	843689	RQ2406670-01	06/07/24 14:01	500	517	103	90-110
CCV6	843689	RQ2406670-05	06/07/24 14:01	500	512	102	90-110
CCV7	843692	RQ2406672-01	06/07/24 16:46	50.0	52.3	105	90-110
CCV8	843692	RQ2406672-05	06/07/24 16:46	50.0	52.5	105	90-110
CCV9	843692	RQ2406672-09	06/07/24 16:46	50.0	52.8	106	90-110
CCV10	843693	RQ2406674-01	06/07/24 16:46	50.0	52.8	106	90-110
CCV11	843693	RQ2406674-05	06/07/24 16:46	50.0	53.8	108	90-110

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2404674
Project: Olean OU3 9-Month/300-082.0043

Continuing Calibration Verification (CCV) Summary

Sulfate

Analysis Method: 300.0 **Units:** mg/L

	Analysis Lot	Lab Code	Date Analyzed	True Value	Measured Value	Percent Recovery	Acceptance Limits
CCV1	844263	RQ2406890-01	06/16/24 07:02	4.00	4.15	104	90-110
CCV2	844263	RQ2406890-07	06/16/24 09:56	4.00	4.01	100	90-110
CCV3	844315	RQ2406992-01	06/14/24 21:22	4.00	3.92	98	90-110
CCV4	844315	RQ2406992-07	06/14/24 22:38	4.00	3.98	99	90-110
CCV5	844315	RQ2406992-11	06/14/24 23:54	4.00	3.93	98	90-110
CCV6	844316	RQ2406993-01	06/14/24 23:54	4.00	3.93	98	90-110
CCV7	844316	RQ2406993-07	06/15/24 01:09	4.00	3.95	99	90-110
CCV8	844316	RQ2406993-09	06/15/24 02:06	4.00	3.93	98	90-110
CCV9	844610	RQ2407075-01	06/18/24 19:30	4.00	4.04	101	90-110
CCV10	844610	RQ2407075-07	06/18/24 20:46	4.00	3.99	100	90-110
CCV11	844610	RQ2407075-11	06/18/24 21:49	4.00	4.05	101	90-110

Raw Data

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Volatile Organic Compounds by GC/MS

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/28/24 16:06
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU009-F008	**Units:**	ug/L
Lab Code:	R2404674-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0	U	1.0	0.21	1	06/09/24 16:54	
Trichloroethene (TCE)	**0.48**	**J**	1.0	0.20	1	06/09/24 16:54	
Vinyl Chloride	1.0	U	1.0	0.20	1	06/09/24 16:54	
cis-1,2-Dichloroethene	**0.32**	**J**	1.0	0.23	1	06/09/24 16:54	
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	1	06/09/24 16:54	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	06/09/24 16:54	
Dibromofluoromethane	93	80 - 116	06/09/24 16:54	
Toluene-d8	97	87 - 121	06/09/24 16:54	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/28/24 16:53
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-FB001-B008	**Units:**	ug/L
Lab Code:	R2404674-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/09/24 16:31	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/09/24 16:31	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/09/24 16:31	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/09/24 16:31	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/09/24 16:31	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	06/09/24 16:31	
Dibromofluoromethane	97	80 - 116	06/09/24 16:31	
Toluene-d8	100	87 - 121	06/09/24 16:31	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/28/24
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-TB001-T008	**Units:**	ug/L
Lab Code:	R2404674-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/09/24 16:08	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/09/24 16:08	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/09/24 16:08	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/09/24 16:08	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/09/24 16:08	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	06/09/24 16:08	
Dibromofluoromethane	95	80 - 116	06/09/24 16:08	
Toluene-d8	98	87 - 121	06/09/24 16:08	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 17:50
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU010-F008	**Units:**	ug/L
Lab Code:	R2404674-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	2.0 U	2.0	0.42	2	06/09/24 19:12	
Trichloroethene (TCE)	**34**	2.0	0.40	2	06/09/24 19:12	
Vinyl Chloride	**1.5 J**	2.0	0.40	2	06/09/24 19:12	
cis-1,2-Dichloroethene	**150**	2.0	0.46	2	06/09/24 19:12	
trans-1,2-Dichloroethene	**1.1 J**	2.0	0.40	2	06/09/24 19:12	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	06/09/24 19:12	
Dibromofluoromethane	101	80 - 116	06/09/24 19:12	
Toluene-d8	103	87 - 121	06/09/24 19:12	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 08:42
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU015-F008	**Units:**	ug/L
Lab Code:	R2404674-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/09/24 17:17	
Trichloroethene (TCE)	**1.7**	1.0	0.20	1	06/09/24 17:17	
Vinyl Chloride	**0.20 J**	1.0	0.20	1	06/09/24 17:17	
cis-1,2-Dichloroethene	**1.4**	1.0	0.23	1	06/09/24 17:17	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/09/24 17:17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	06/09/24 17:17	
Dibromofluoromethane	97	80 - 116	06/09/24 17:17	
Toluene-d8	100	87 - 121	06/09/24 17:17	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 17:20
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU019-F008	**Units:**	ug/L
Lab Code:	R2404674-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	2.5 U	2.5	0.53	2.5	06/09/24 19:35	
Trichloroethene (TCE)	**160**	2.5	0.50	2.5	06/09/24 19:35	
Vinyl Chloride	**9.7**	2.5	0.50	2.5	06/09/24 19:35	
cis-1,2-Dichloroethene	**190**	2.5	0.58	2.5	06/09/24 19:35	
trans-1,2-Dichloroethene	**2.2 J**	2.5	0.50	2.5	06/09/24 19:35	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	109	85 - 122	06/09/24 19:35	
Dibromofluoromethane	98	80 - 116	06/09/24 19:35	
Toluene-d8	102	87 - 121	06/09/24 19:35	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 14:55
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU020-F008	**Units:**	ug/L
Lab Code:	R2404674-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	2.5 U	2.5	0.53	2.5	06/09/24 19:58	
Trichloroethene (TCE)	**320**	2.5	0.50	2.5	06/09/24 19:58	
Vinyl Chloride	2.5 U	2.5	0.50	2.5	06/09/24 19:58	
cis-1,2-Dichloroethene	**260**	2.5	0.58	2.5	06/09/24 19:58	
trans-1,2-Dichloroethene	**1.8 J**	2.5	0.50	2.5	06/09/24 19:58	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	06/09/24 19:58	
Dibromofluoromethane	98	80 - 116	06/09/24 19:58	
Toluene-d8	100	87 - 121	06/09/24 19:58	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 16:11
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU021-F008	**Units:**	ug/L
Lab Code:	R2404674-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/09/24 18:49	
Trichloroethene (TCE)	**28**	1.0	0.20	1	06/09/24 18:49	
Vinyl Chloride	**15**	1.0	0.20	1	06/09/24 18:49	
cis-1,2-Dichloroethene	**22**	1.0	0.23	1	06/09/24 18:49	
trans-1,2-Dichloroethene	**1.2**	1.0	0.20	1	06/09/24 18:49	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	06/09/24 18:49	
Dibromofluoromethane	98	80 - 116	06/09/24 18:49	
Toluene-d8	99	87 - 121	06/09/24 18:49	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 14:21
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU027A-F008	**Units:**	ug/L
Lab Code:	R2404674-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/09/24 17:40	
Trichloroethene (TCE)	**0.35 J**	1.0	0.20	1	06/09/24 17:40	
Vinyl Chloride	**0.49 J**	1.0	0.20	1	06/09/24 17:40	
cis-1,2-Dichloroethene	**1.4**	1.0	0.23	1	06/09/24 17:40	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/09/24 17:40	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	06/09/24 17:40	
Dibromofluoromethane	96	80 - 116	06/09/24 17:40	
Toluene-d8	100	87 - 121	06/09/24 17:40	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 12:35
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU028-F008	**Units:**	ug/L
Lab Code:	R2404674-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/09/24 18:03	
Trichloroethene (TCE)	**14**	1.0	0.20	1	06/09/24 18:03	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/09/24 18:03	
cis-1,2-Dichloroethene	**1.7**	1.0	0.23	1	06/09/24 18:03	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/09/24 18:03	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	06/09/24 18:03	
Dibromofluoromethane	98	80 - 116	06/09/24 18:03	
Toluene-d8	101	87 - 121	06/09/24 18:03	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 10:10
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-UA002-F008	**Units:**	ug/L
Lab Code:	R2404674-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/09/24 18:26	
Trichloroethene (TCE)	**0.73 J**	1.0	0.20	1	06/09/24 18:26	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/09/24 18:26	
cis-1,2-Dichloroethene	**0.75 J**	1.0	0.23	1	06/09/24 18:26	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/09/24 18:26	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	107	85 - 122	06/09/24 18:26	
Dibromofluoromethane	102	80 - 116	06/09/24 18:26	
Toluene-d8	105	87 - 121	06/09/24 18:26	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 09:15
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-WW18M-F008	**Units:**	ug/L
Lab Code:	R2404674-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/10/24 14:39	
Trichloroethene (TCE)	**12**	1.0	0.20	1	06/10/24 14:39	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/10/24 14:39	
cis-1,2-Dichloroethene	**0.44 J**	1.0	0.23	1	06/10/24 14:39	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/10/24 14:39	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	06/10/24 14:39	
Dibromofluoromethane	101	80 - 116	06/10/24 14:39	
Toluene-d8	103	87 - 121	06/10/24 14:39	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 07:00
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-FD001-D008	**Units:**	ug/L
Lab Code:	R2404674-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/10/24 21:10	
Trichloroethene (TCE)	**33**	1.0	0.20	1	06/10/24 21:10	
Vinyl Chloride	**15**	1.0	0.20	1	06/10/24 21:10	
cis-1,2-Dichloroethene	**22**	1.0	0.23	1	06/10/24 21:10	
trans-1,2-Dichloroethene	**1.2**	1.0	0.20	1	06/10/24 21:10	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	06/10/24 21:10	
Dibromofluoromethane	100	80 - 116	06/10/24 21:10	
Toluene-d8	102	87 - 121	06/10/24 21:10	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 17:25
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-FB002-B008	**Units:**	ug/L
Lab Code:	R2404674-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/10/24 13:30	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/10/24 13:30	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/10/24 13:30	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/10/24 13:30	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/10/24 13:30	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	06/10/24 13:30	
Dibromofluoromethane	97	80 - 116	06/10/24 13:30	
Toluene-d8	99	87 - 121	06/10/24 13:30	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-TB002-T008	**Units:**	ug/L
Lab Code:	R2404674-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/10/24 13:53	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/10/24 13:53	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/10/24 13:53	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/10/24 13:53	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/10/24 13:53	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	06/10/24 13:53	
Dibromofluoromethane	98	80 - 116	06/10/24 13:53	
Toluene-d8	100	87 - 121	06/10/24 13:53	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/30/24 16:30
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-EB001-E008	**Units:**	ug/L
Lab Code:	R2404674-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/10/24 14:16	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/10/24 14:16	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/10/24 14:16	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/10/24 14:16	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/10/24 14:16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	06/10/24 14:16	
Dibromofluoromethane	99	80 - 116	06/10/24 14:16	
Toluene-d8	102	87 - 121	06/10/24 14:16	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2729.D
Acq On : 09 Jun 2024 04:54 pm
Operator : K.Ruest
Sample : R2404674-001
Misc : CIVIL 8260 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 10 09:40:27 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

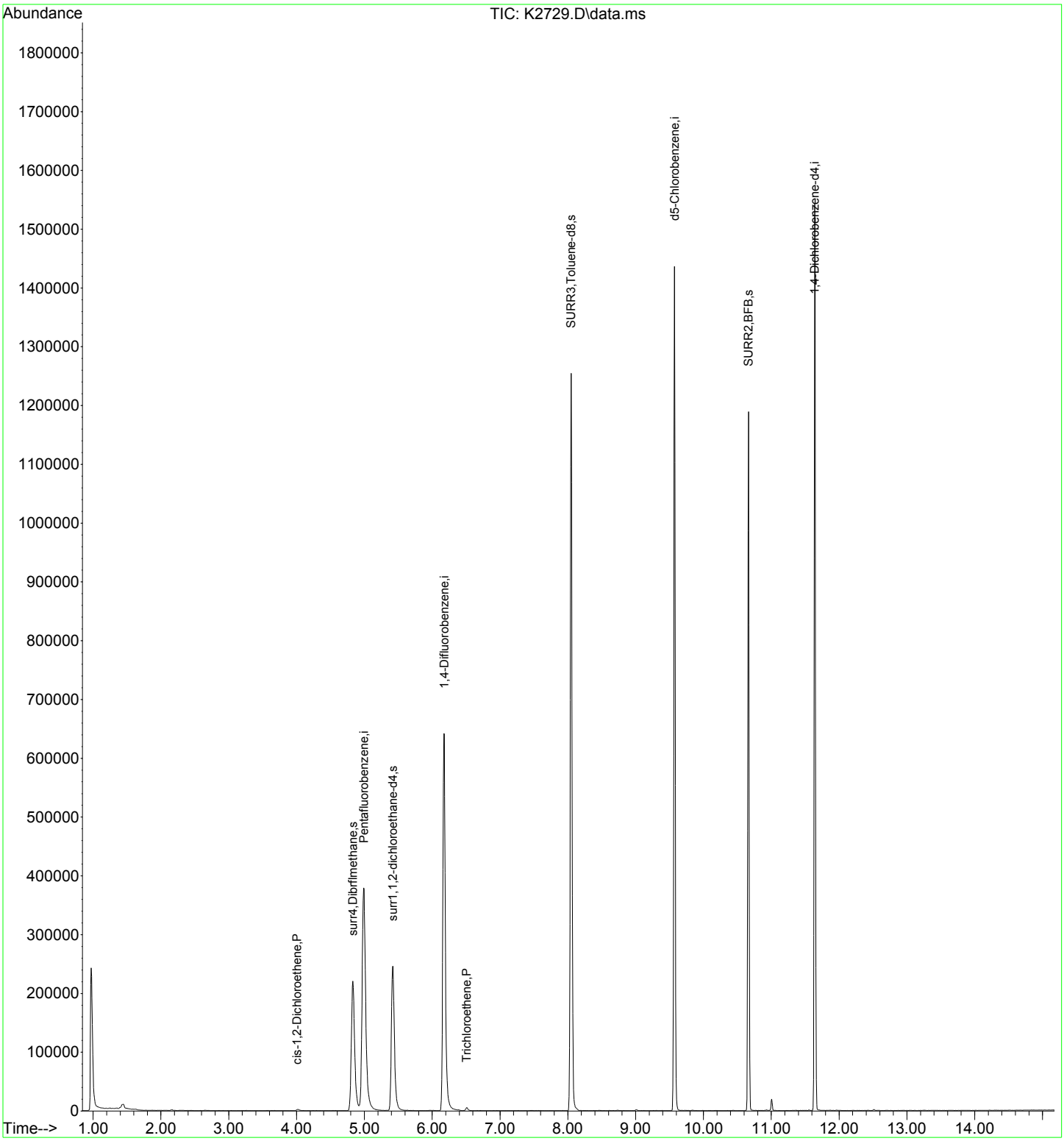
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.995	168	458143	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.178	114	725217	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.573	117	648288	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	11.640	152	304345	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.830	113	227252	46.51	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 93.02%			
48) surr1,1,2-dichloroetha...	5.422	65	286863	48.45	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 96.90%			
65) SURR3,Toluene-d8	8.049	98	820610	48.46	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 96.92%			
70) SURR2,BFB	10.665	95	308385	48.45	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 96.90%			
Target Compounds						Qvalue
4) Chloromethane	1.191	50	312	Below Cal	#	58
16) Acetone	2.160	43	1712	Below Cal		91
34) cis-1,2-Dichloroethene	4.007	96	1354	0.322	ug/L #	54
54) Trichloroethene	6.507	130	2195	0.482	ug/L #	85

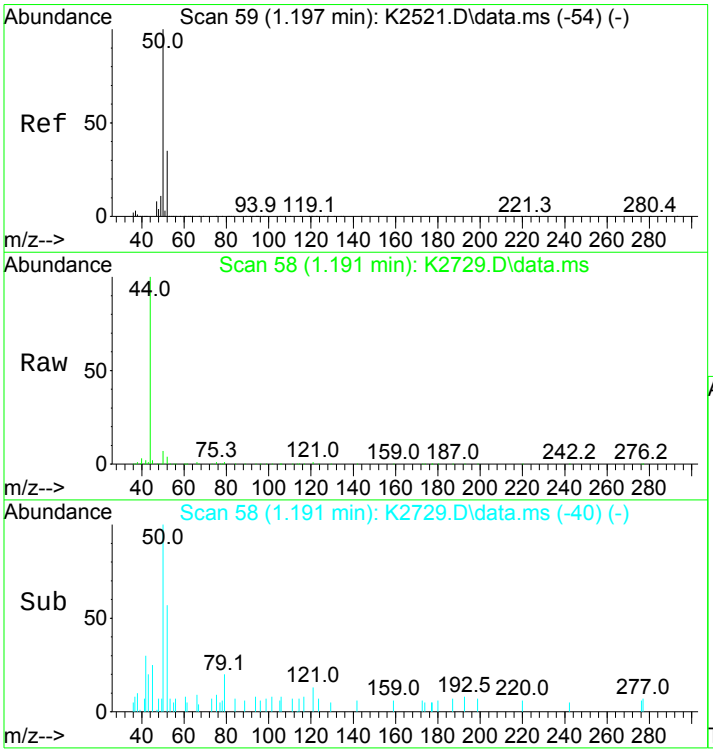
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2729.D
Acq On : 09 Jun 2024 04:54 pm
Operator : K.Ruest
Sample : R2404674-001
Misc : CIVIL 8260 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 10 09:40:27 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

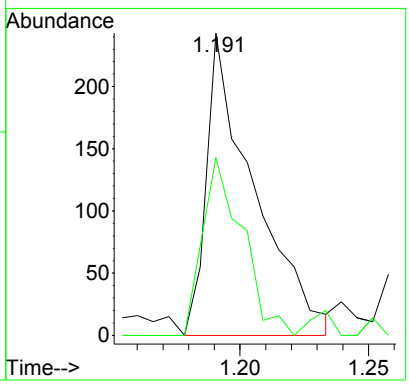


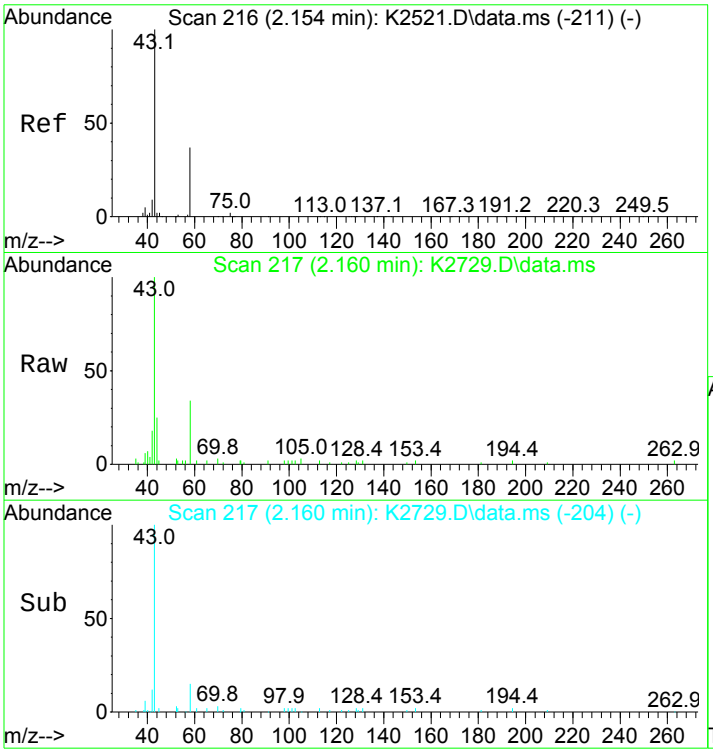


#4
Chloromethane
Concen: Below Cal
RT: 1.191 min Scan# 58
Delta R.T. -0.005 min
Lab File: K2729.D
Acq: 09 Jun 2024 04:54 pm

Tgt Ion: 50 Resp: 312

Ion	Ratio	Lower	Upper
50	100		
52	58.8	14.7	54.7#

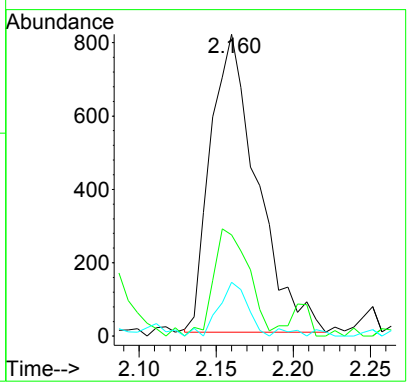


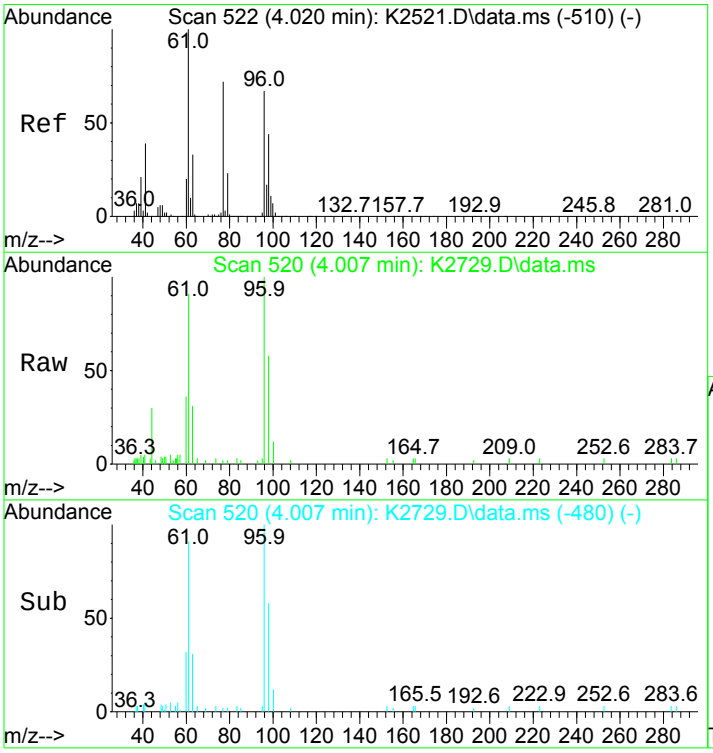


#16
Acetone
Concen: Below Cal
RT: 2.160 min Scan# 217
Delta R.T. 0.006 min
Lab File: K2729.D
Acq: 09 Jun 2024 04:54 pm

Tgt Ion: 43 Resp: 1712

Ion	Ratio	Lower	Upper
43	100		
58	33.5	16.2	56.2
42	17.9	0.0	28.5

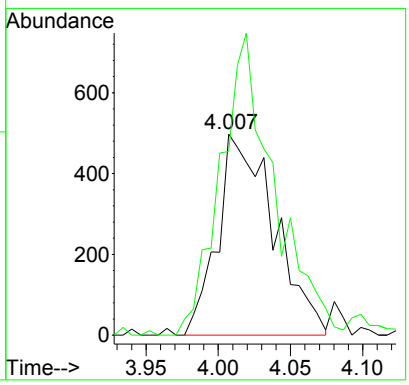


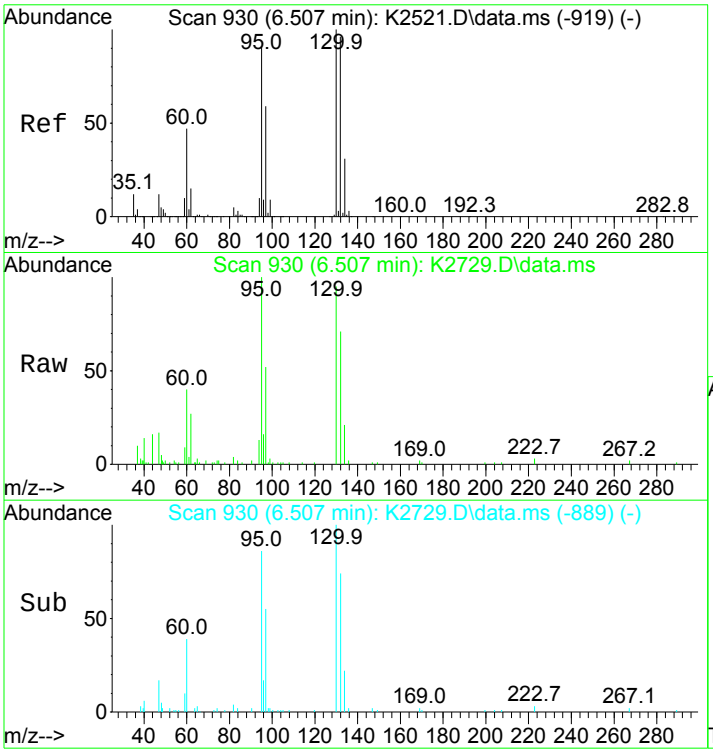


#34
cis-1,2-Dichloroethene
Concen: 0.32 ug/L
RT: 4.007 min Scan# 520
Delta R.T. -0.012 min
Lab File: K2729.D
Acq: 09 Jun 2024 04:54 pm

Tgt Ion: 96 Resp: 1354

Ion	Ratio	Lower	Upper
96	100		
61	91.4	129.5	169.5#

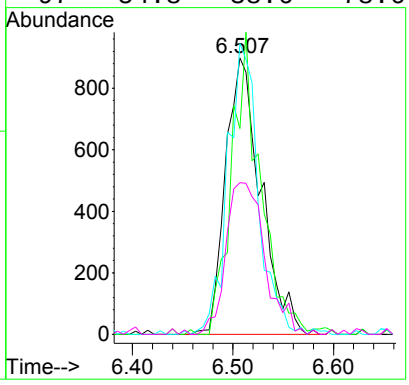




#54
Trichloroethene
Concen: 0.48 ug/L
RT: 6.507 min Scan# 930
Delta R.T. -0.000 min
Lab File: K2729.D
Acq: 09 Jun 2024 04:54 pm

Tgt Ion:130 Resp: 2195

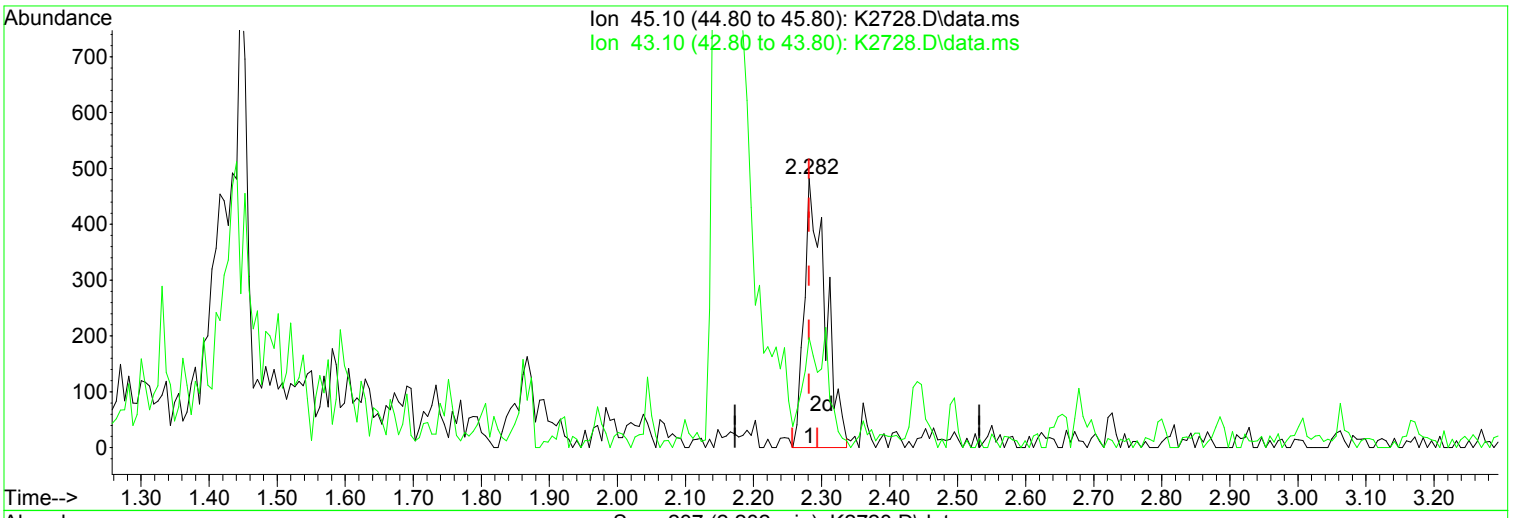
Ion	Ratio	Lower	Upper
130	100		
132	74.4	76.3	116.3#
95	105.2	71.1	111.1
97	54.8	38.6	78.6



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2728.D
Acq On : 09 Jun 2024 04:31 pm
Operator : K.Ruest
Sample : R2404674-002
Misc : CIVIL 8260 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 10 09:40:15 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration



TIC: K2728.D\data.ms

(17) 2-Propanol

2.282min (-0.000) 4.07 ug/L m

response 1038

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	22.40	40.87
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak.

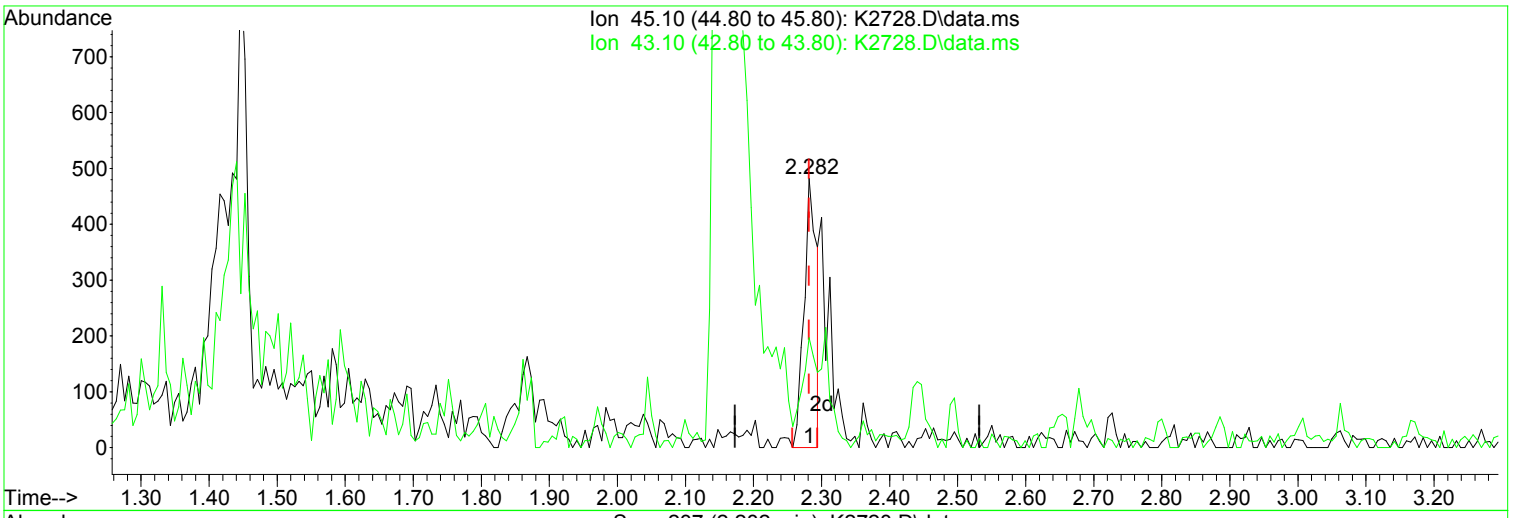
06/10/24

1st 06/10/24
2nd 06/10/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2728.D
Acq On : 09 Jun 2024 04:31 pm
Operator : K.Ruest
Sample : R2404674-002
Misc : CIVIL 8260 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 10 09:40:15 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration



TIC: K2728.D\data.ms

(17) 2-Propanol

2.282min (-0.000) 2.47 ug/L

response 629

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	22.40	40.87
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

06/10/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2728.D
Acq On : 09 Jun 2024 04:31 pm
Operator : K.Ruest
Sample : R2404674-002
Misc : CIVIL 8260 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 10 09:40:15 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

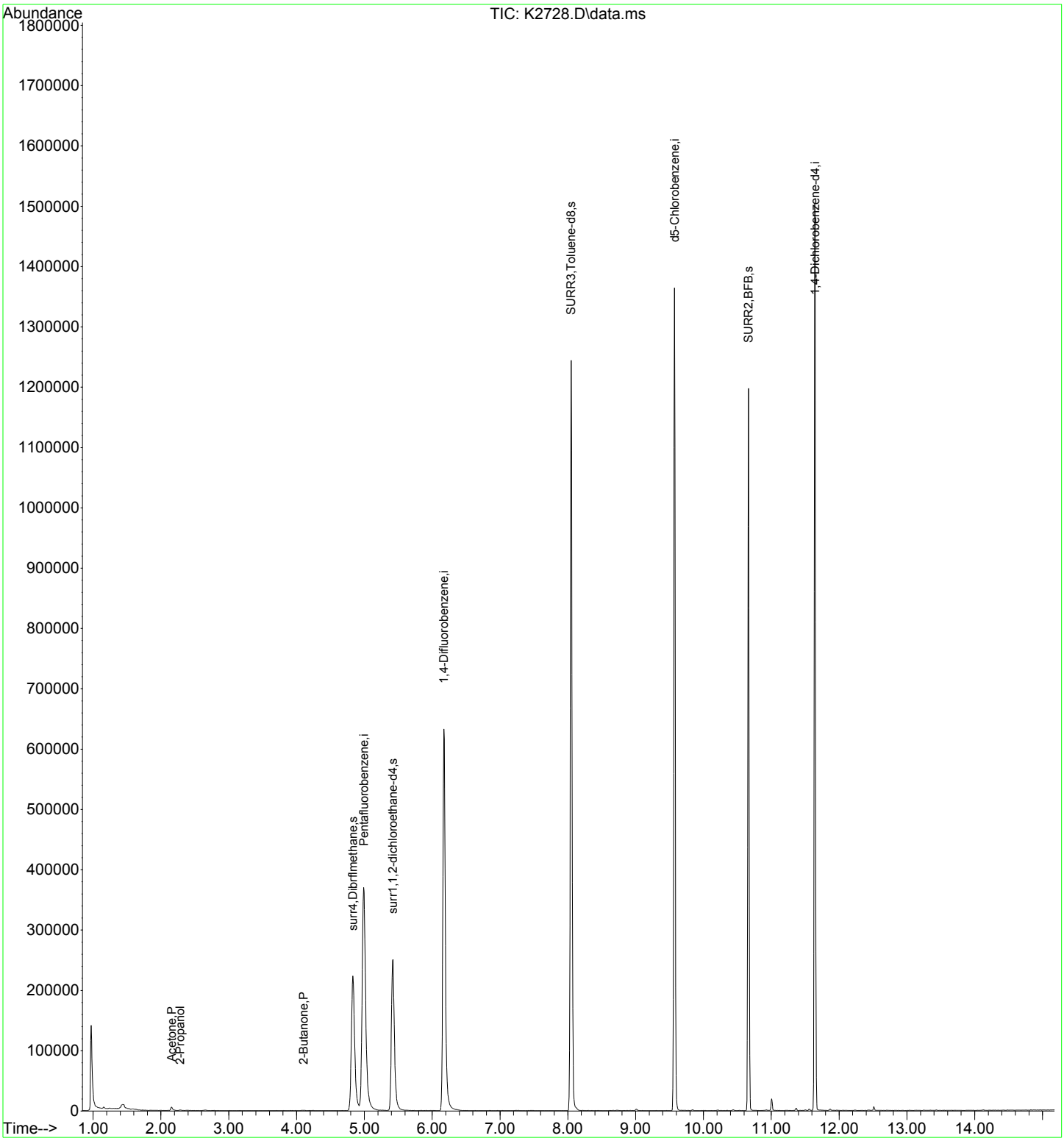
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.995	168	443961	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.171	114	705850	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.573	117	633371	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	11.646	152	301574	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.830	113	230730	48.51	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 97.02%			
48) surr1,1,2-dichloroetha...	5.421	65	292567	50.77	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 101.54%			
65) SURR3,Toluene-d8	8.049	98	820958	49.81	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.62%			
70) SURR2,BFB	10.664	95	304345	49.13	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 98.26%			
Target Compounds						Qvalue
4) Chloromethane	1.209	50	274	Below Cal		76
16) Acetone	2.160	43	7059	3.879	ug/L	98
17) 2-Propanol	2.282	45	1038m	4.073	ug/L	
35) 2-Butanone	4.105	43	1120	0.676	ug/L	82

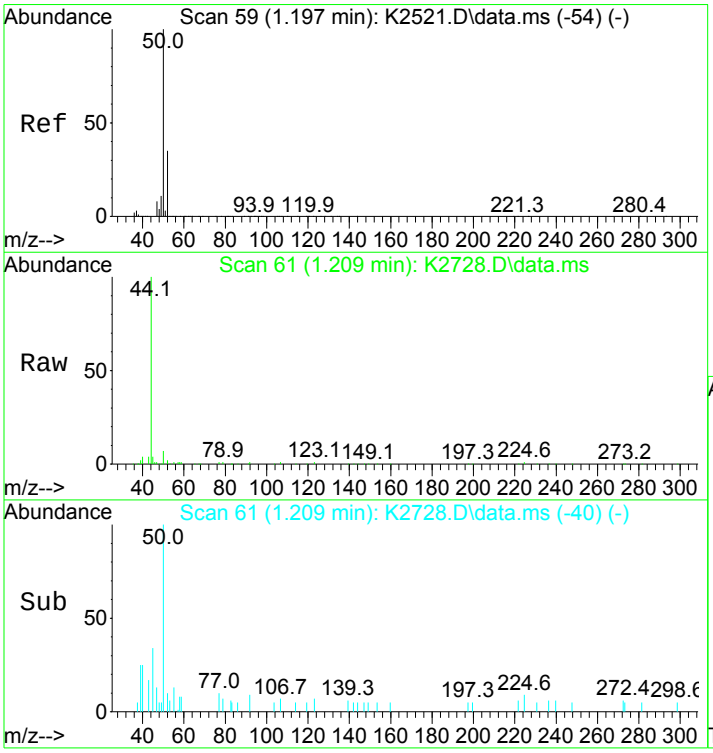
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2728.D
Acq On : 09 Jun 2024 04:31 pm
Operator : K.Ruest
Sample : R2404674-002
Misc : CIVIL 8260 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 10 09:40:15 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

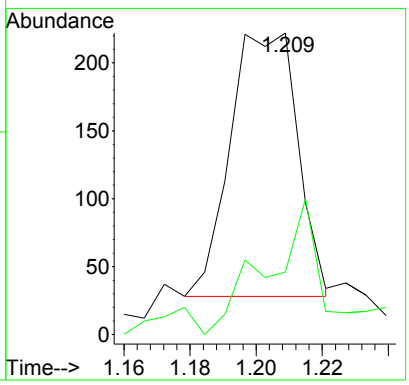


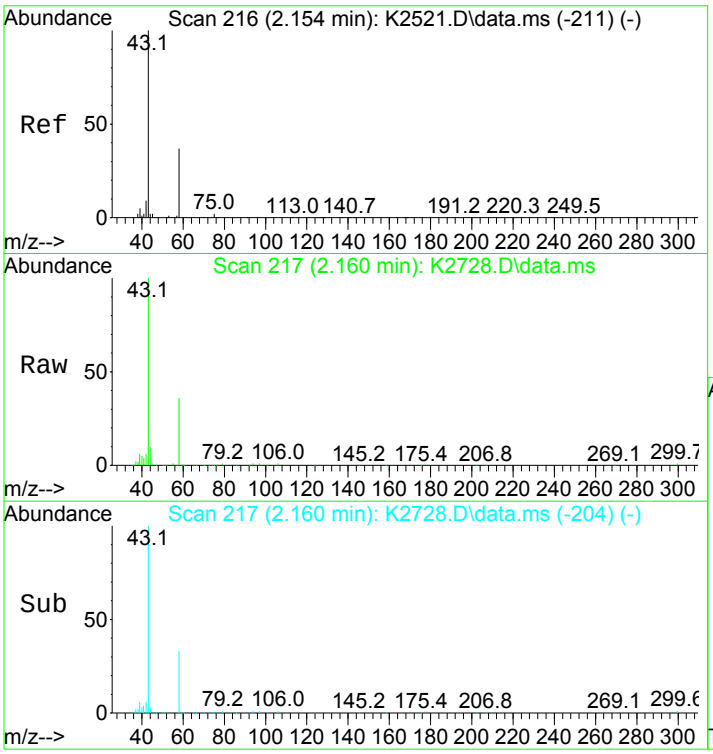


#4
Chloromethane
Concen: Below Cal
RT: 1.209 min Scan# 61
Delta R.T. 0.013 min
Lab File: K2728.D
Acq: 09 Jun 2024 04:31 pm

Tgt Ion: 50 Resp: 274

Ion	Ratio	Lower	Upper
50	100		
52	20.7	14.7	54.7

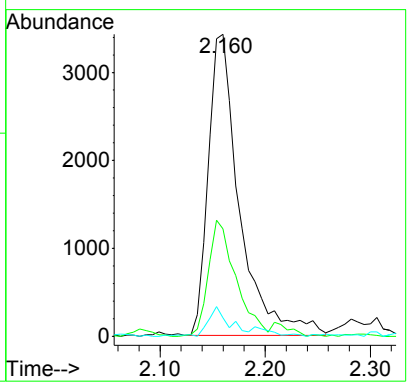


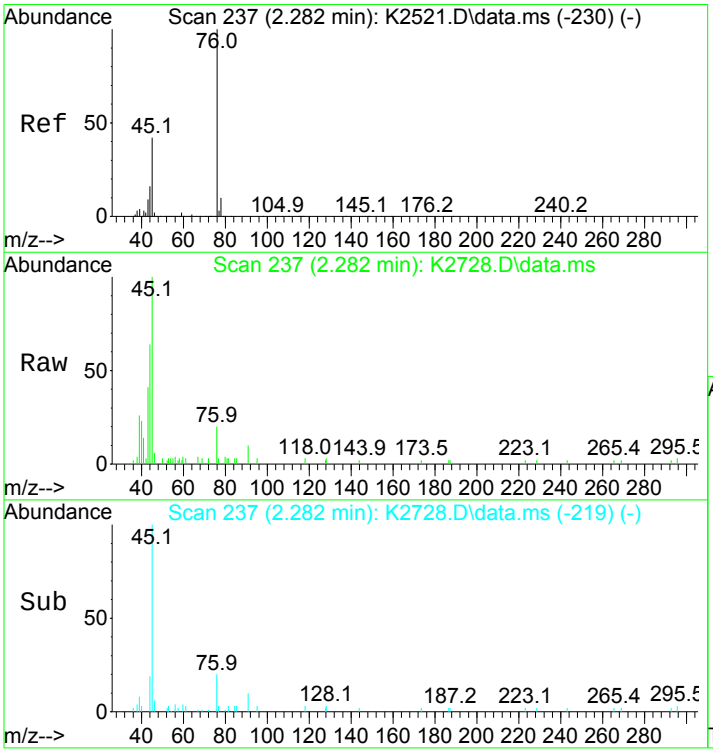


#16
Acetone
Concen: 3.88 ug/L
RT: 2.160 min Scan# 217
Delta R.T. 0.006 min
Lab File: K2728.D
Acq: 09 Jun 2024 04:31 pm

Tgt Ion: 43 Resp: 7059

Ion	Ratio	Lower	Upper
43	100		
58	35.6	16.2	56.2
42	6.1	0.0	28.5

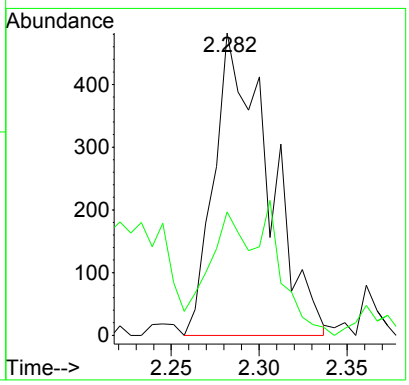


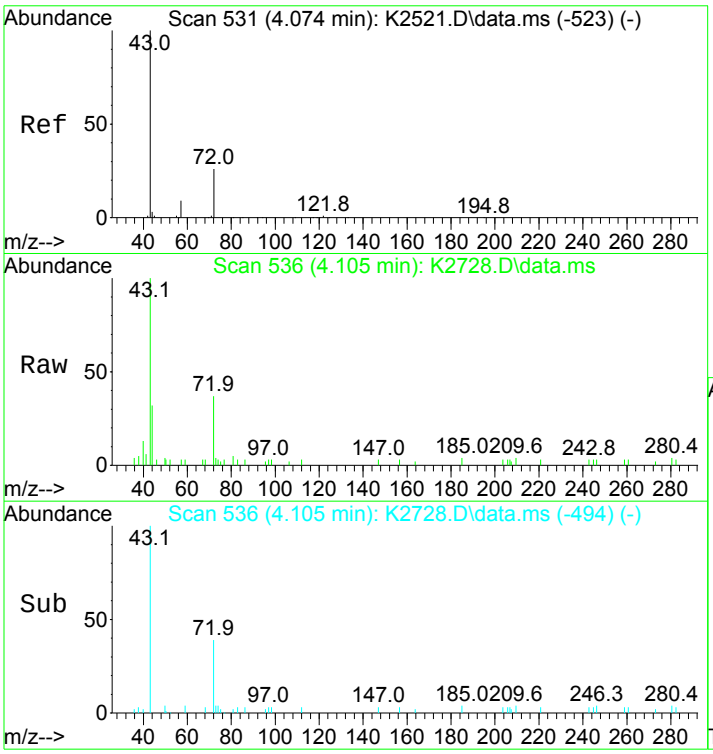


#17
2-Propanol
Concen: 4.07 ug/L m
RT: 2.282 min Scan# 237
Delta R.T. -0.000 min
Lab File: K2728.D
Acq: 09 Jun 2024 04:31 pm

Tgt Ion: 45 Resp: 1038

Ion	Ratio	Lower	Upper
45	100		
43	40.9	2.4	42.4

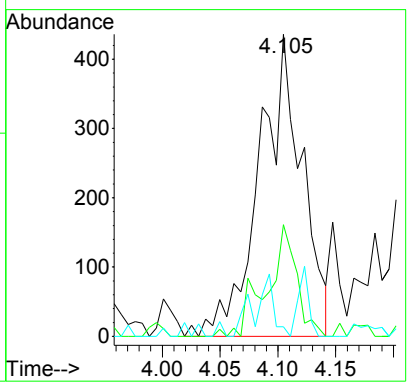




#35
2-Butanone
Concen: 0.68 ug/L
RT: 4.105 min Scan# 536
Delta R.T. 0.030 min
Lab File: K2728.D
Acq: 09 Jun 2024 04:31 pm

Tgt Ion: 43 Resp: 1120

Ion	Ratio	Lower	Upper
43	100		
72	36.9	8.0	48.0
57	3.2	0.0	30.7



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2727.D
Acq On : 09 Jun 2024 04:08 pm
Operator : K.Ruest
Sample : R2404674-003
Misc : CIVIL 8260 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 10 09:39:56 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

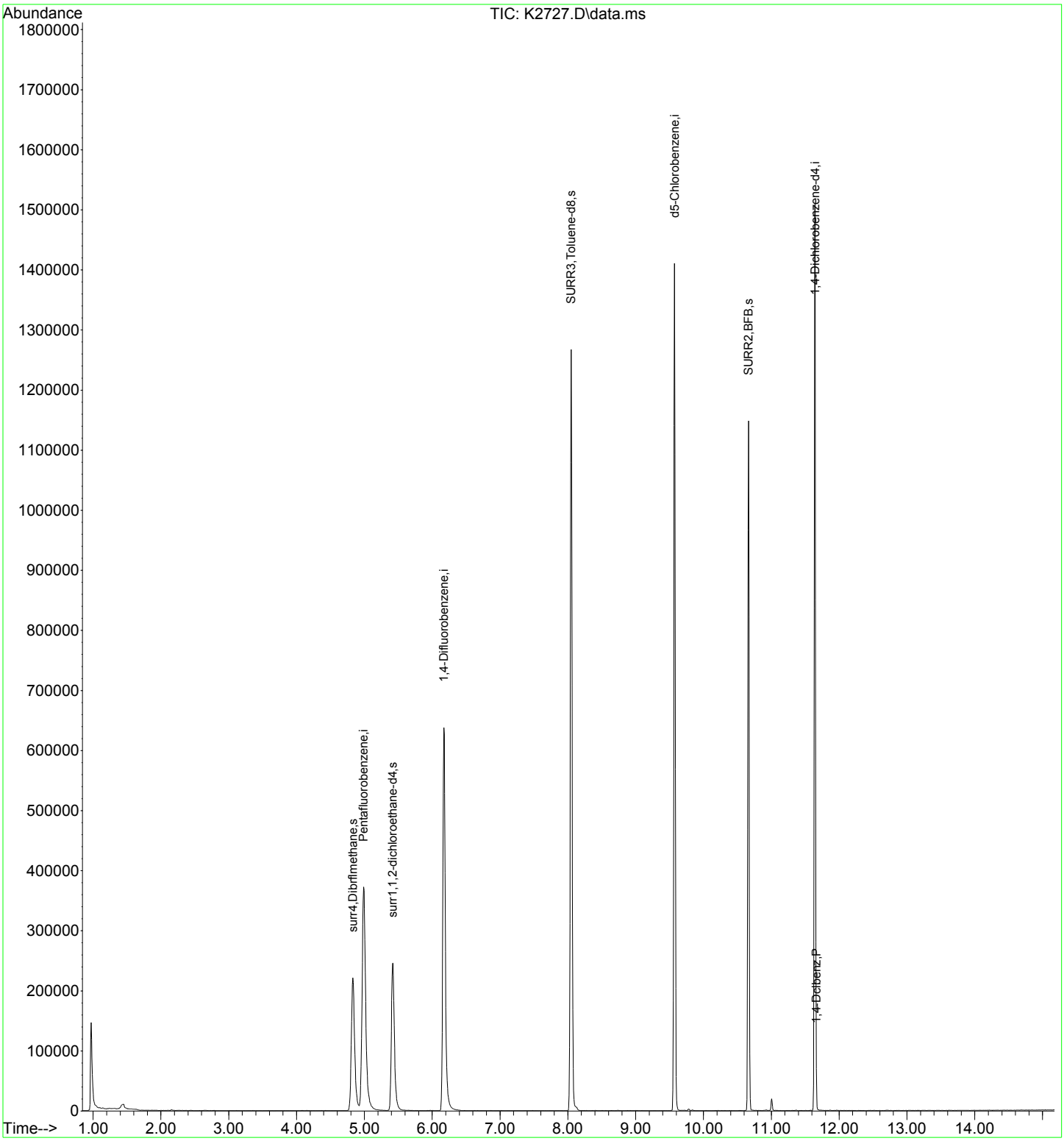
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.989	168	456632	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.171	114	718334	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.573	117	641991	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	11.646	152	297852	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.830	113	230390	47.60	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 95.20%			
48) surr1,1,2-dichloroetha...	5.415	65	288841	49.25	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 98.50%			
65) SURR3,Toluene-d8	8.049	98	821350	48.97	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 97.94%			
70) SURR2,BFB	10.665	95	303671	48.17	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 96.34%			
Target Compounds						Qvalue
16) Acetone	2.154	43	1554	Below Cal		90
106) 1,4-Dclbenz	11.664	146	6569	0.736	ug/L	89

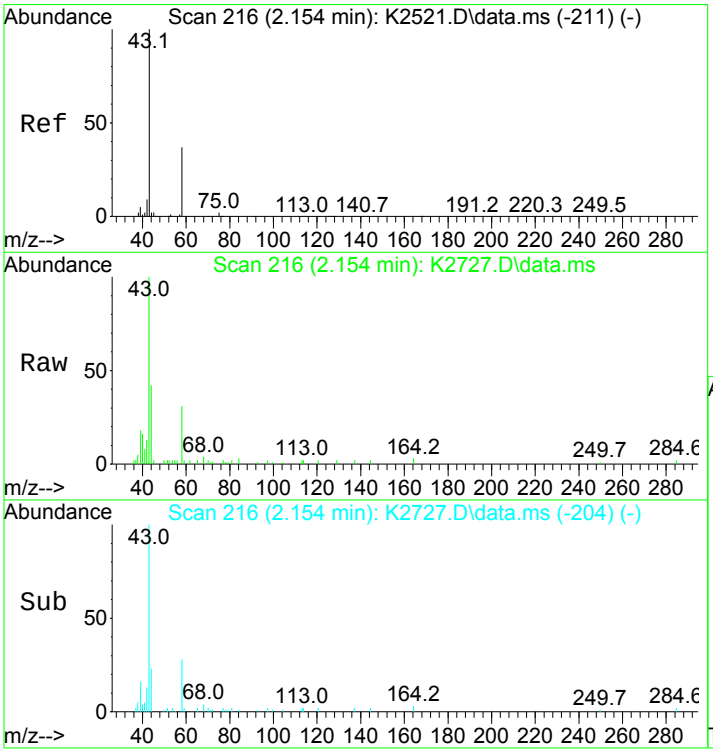
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2727.D
Acq On : 09 Jun 2024 04:08 pm
Operator : K.Ruest
Sample : R2404674-003
Misc : CIVIL 8260 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 10 09:39:56 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

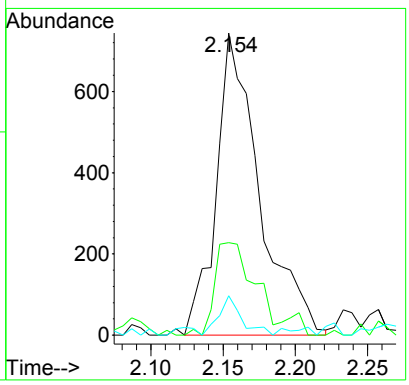


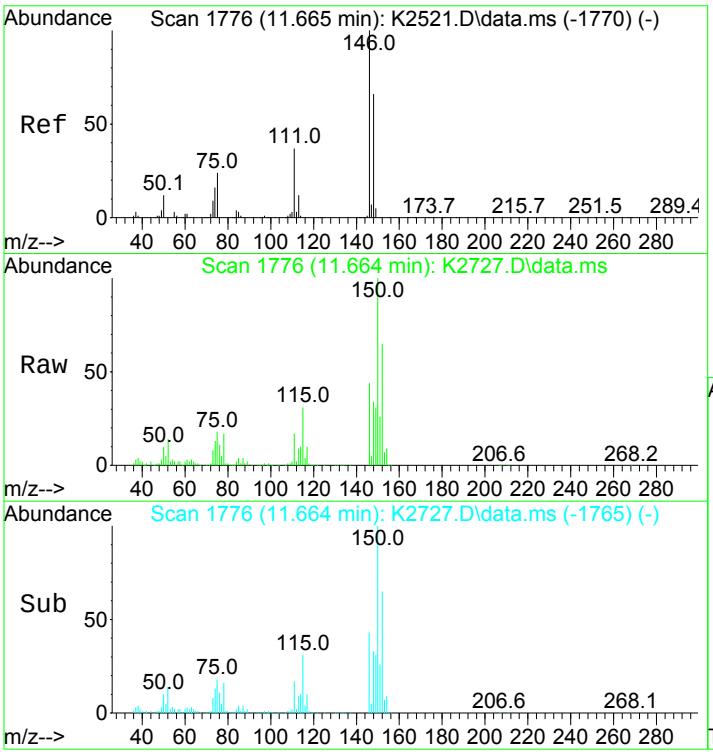


#16
Acetone
Concen: Below Cal
RT: 2.154 min Scan# 216
Delta R.T. -0.000 min
Lab File: K2727.D
Acq: 09 Jun 2024 04:08 pm

Tgt Ion: 43 Resp: 1554

Ion	Ratio	Lower	Upper
43	100		
58	30.6	16.2	56.2
42	13.0	0.0	28.5

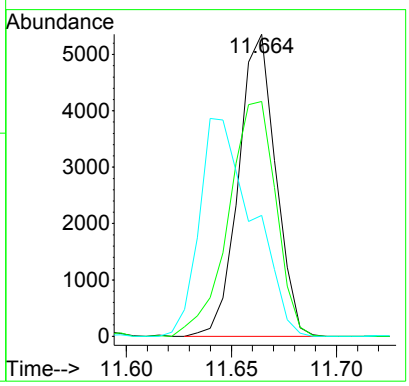




#106
1,4-Dclbenz
Concen: 0.74 ug/L
RT: 11.664 min Scan# 1776
Delta R.T. -0.000 min
Lab File: K2727.D
Acq: 09 Jun 2024 04:08 pm

Tgt Ion:146 Resp: 6569

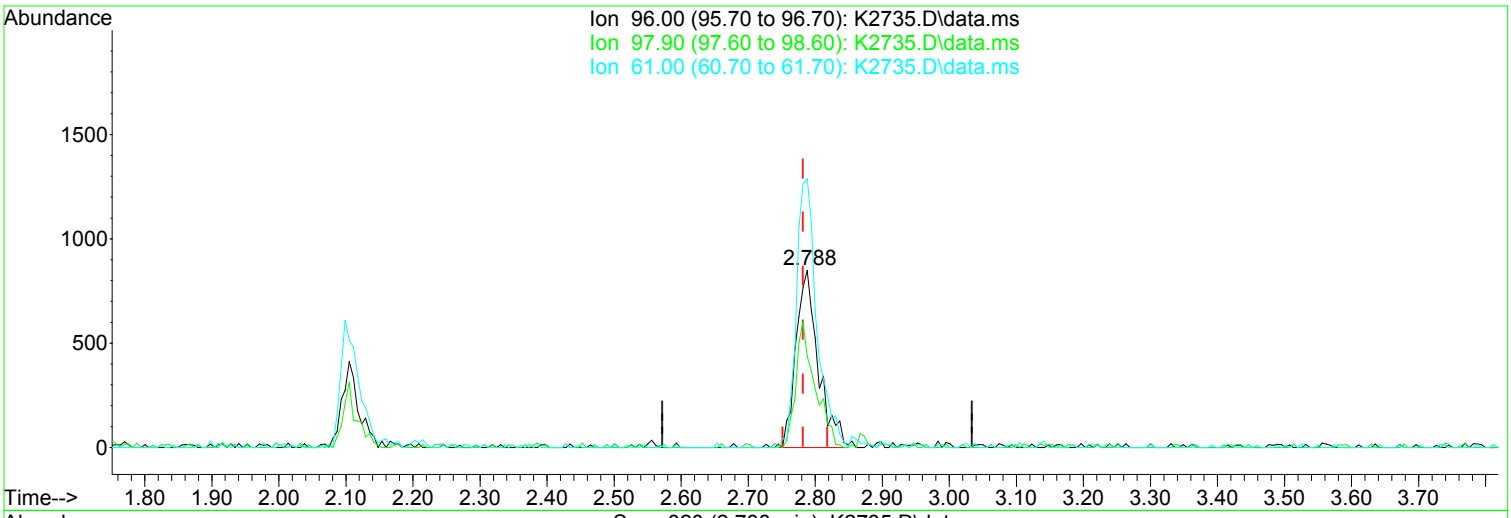
Ion	Ratio	Lower	Upper
146	100		
148	77.7	45.8	85.8
111	40.0	17.5	57.5

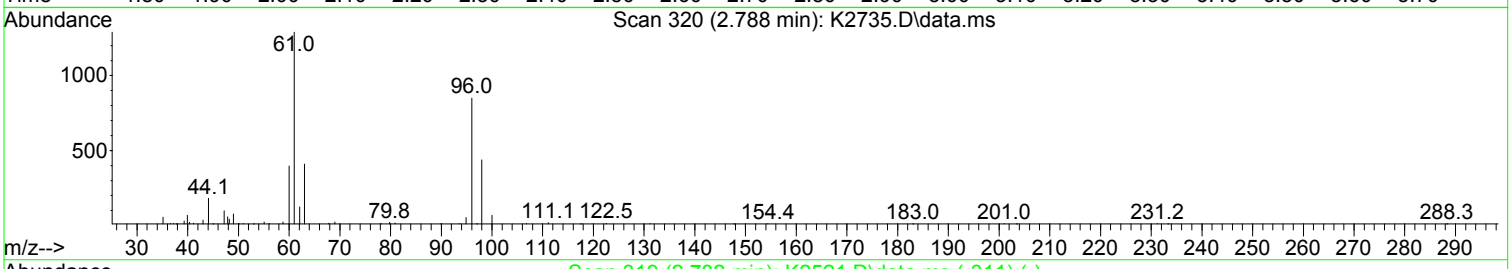


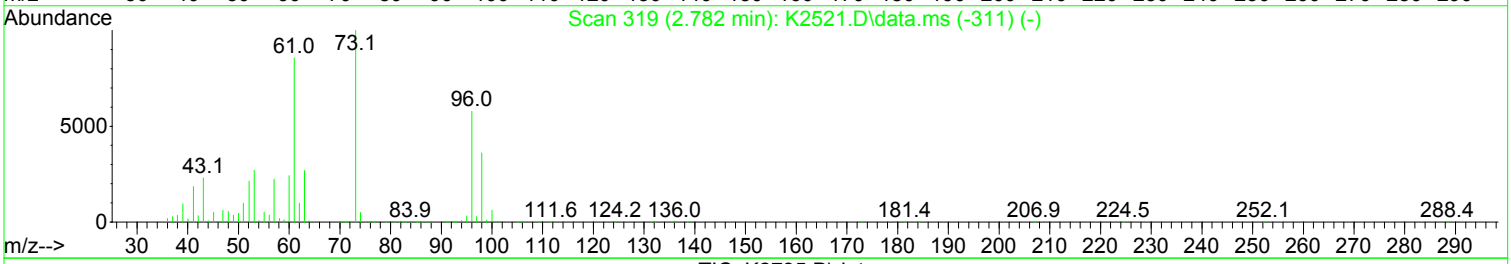
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2735.D
Acq On : 09 Jun 2024 07:12 pm
Operator : K.Ruest
Sample : R2404674-004|2.0
Misc : CIVIL 8260 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 10 09:42:27 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2735.D\data.ms

(27) trans-1,2-Dichloroethene (P)

2.788min (+ 0.006) 0.54 ug/L m

response 1959

Ion	Exp%	Act%
96.00	100.00	100.00
97.90	62.50	51.59
61.00	148.40	151.83
0.00	0.00	0.00

Manual Integration:

After

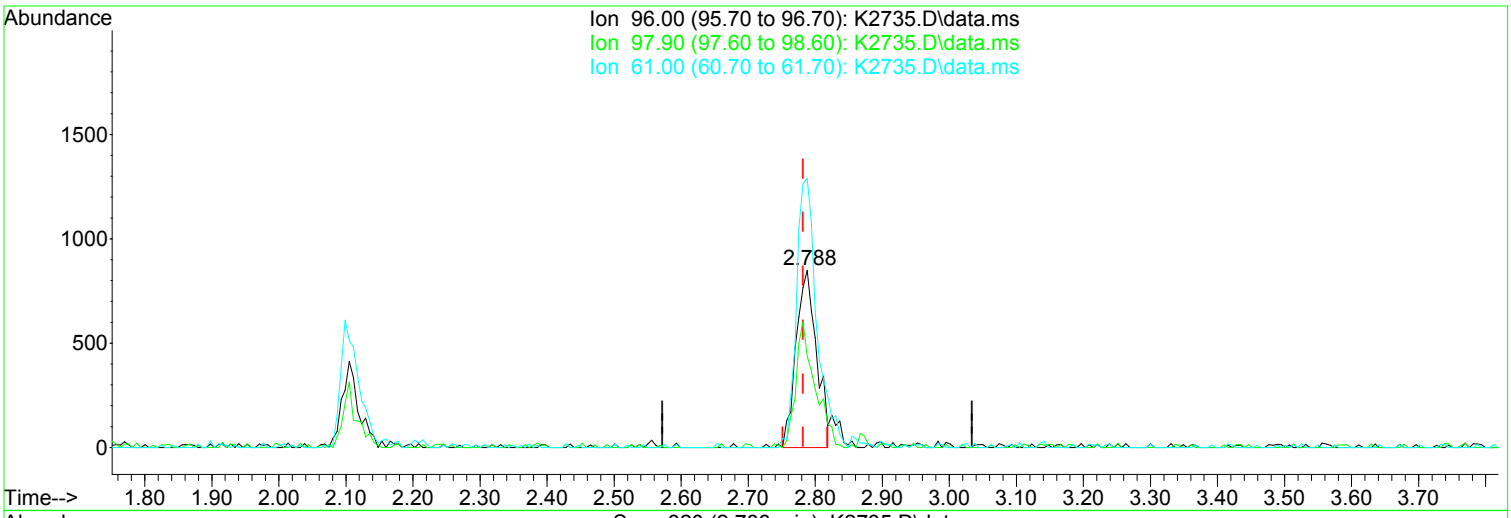
Poor integration.

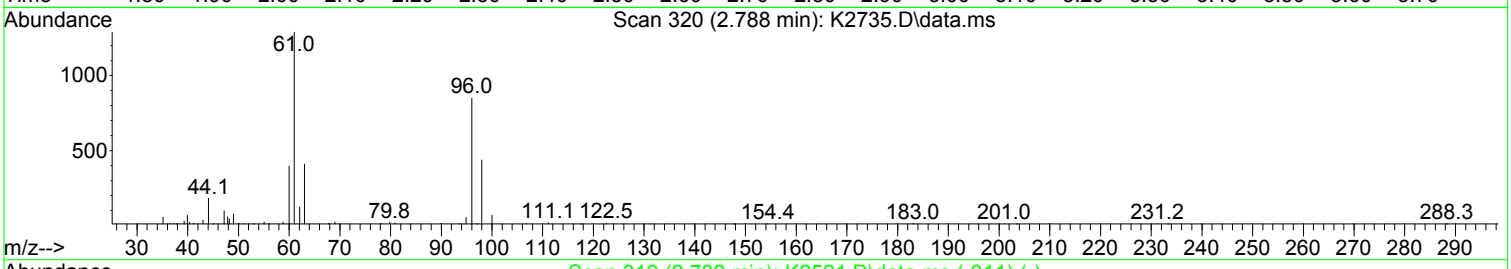
06/10/24

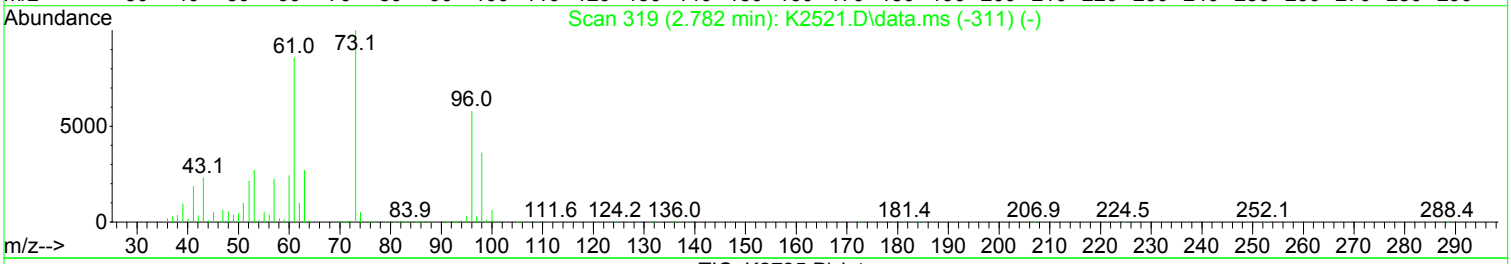
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2735.D
Acq On : 09 Jun 2024 07:12 pm
Operator : K.Ruest
Sample : R2404674-004|2.0
Misc : CIVIL 8260 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 10 09:42:27 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2735.D\data.ms

(27) trans-1,2-Dichloroethene (P)

2.788min (+ 0.006) 0.50 ug/L

response 1804

Ion	Exp%	Act%
96.00	100.00	100.00
97.90	62.50	51.59
61.00	148.40	151.83
0.00	0.00	0.00

Manual Integration:

Before

06/10/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2735.D
Acq On : 09 Jun 2024 07:12 pm
Operator : K.Ruest
Sample : R2404674-004|2.0
Misc : CIVIL 8260 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 10 09:42:27 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

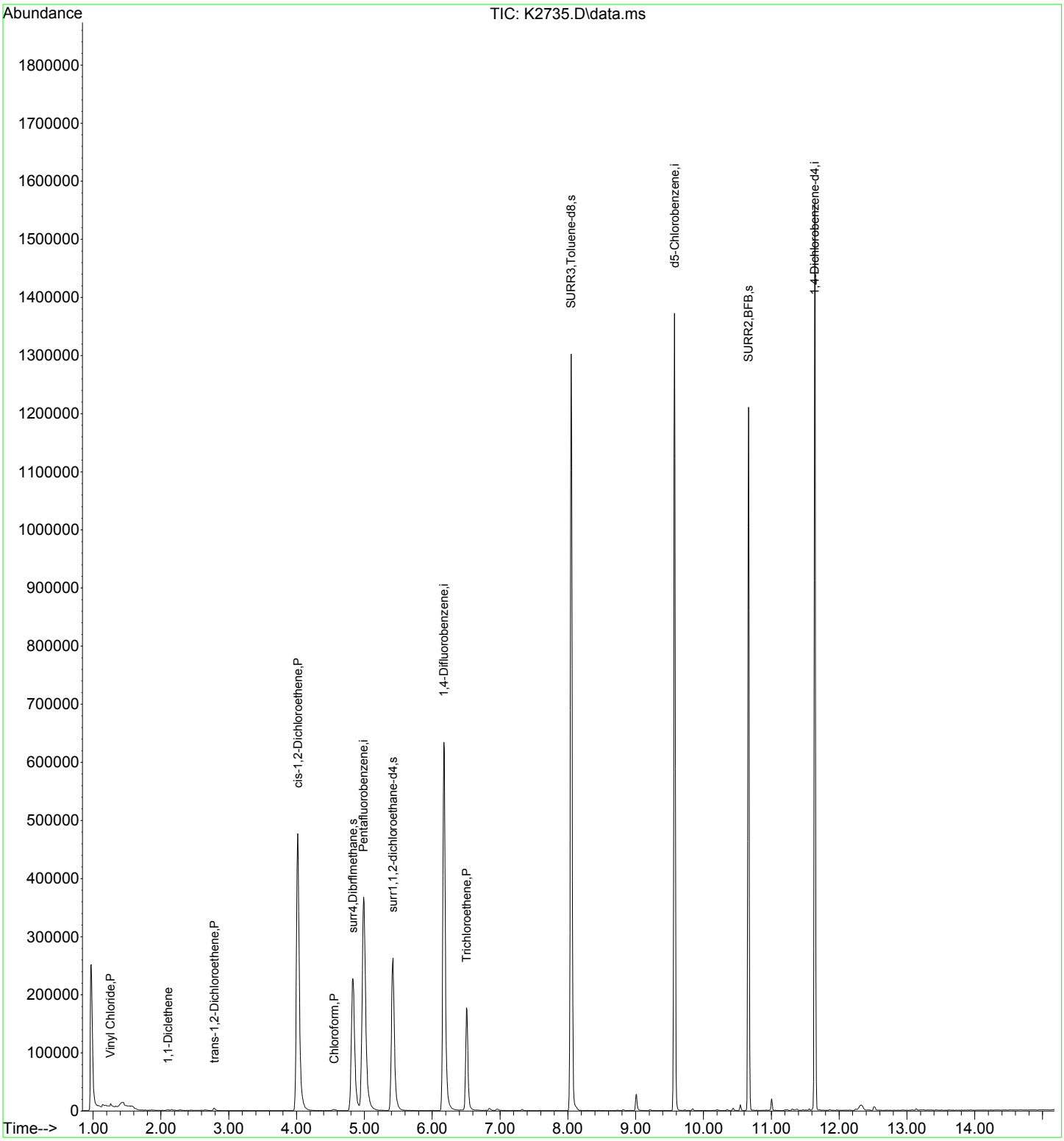
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.989	168	447808	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.171	114	709873	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.573	117	646538	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	11.640	152	306260	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.830	113	240521	50.29	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 100.58%			
48) surr1,1,2-dichloroetha...	5.422	65	301679	52.05	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 104.10%			
65) SURR3,Toluene-d8	8.049	98	853113	51.47	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.94%			
70) SURR2,BFB	10.665	95	315114	50.58	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.16%			
Target Compounds						Qvalue
4) Chloromethane	1.215	50	356	Below Cal	#	40
5) Vinyl Chloride	1.258	62	3367	0.750	ug/L #	54
14) 1,1-Diclethene	2.105	96	729	0.213	ug/L #	72
16) Acetone	2.160	43	1761	Below Cal		78
27) trans-1,2-Dichloroethene	2.788	96	1959m	0.542	ug/L	
34) cis-1,2-Dichloroethene	4.019	96	318478	77.484	ug/L	86
40) Chloroform	4.556	83	2594	0.393	ug/L	78
54) Trichloroethene	6.507	130	75708	16.980	ug/L	98

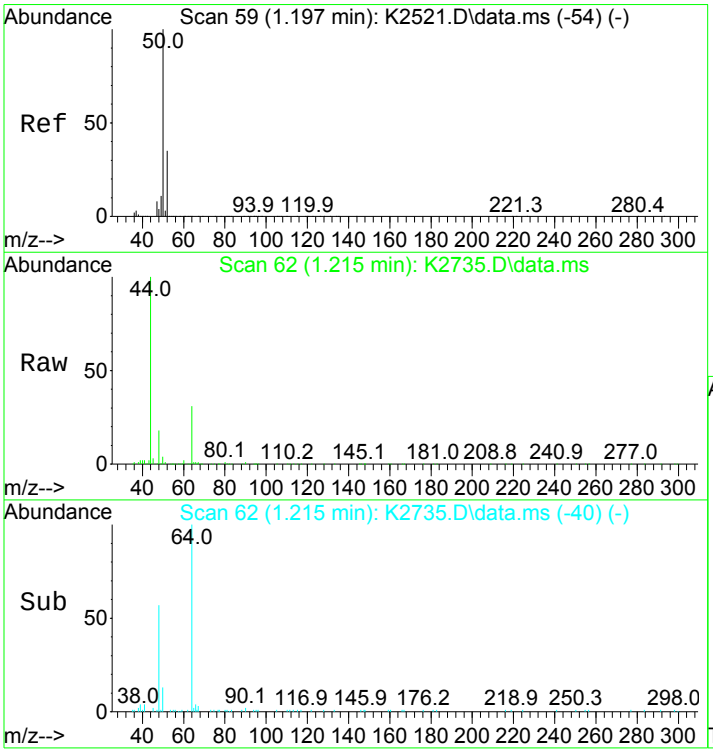
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2735.D
Acq On : 09 Jun 2024 07:12 pm
Operator : K.Ruest
Sample : R2404674-004|2.0
Misc : CIVIL 8260 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 10 09:42:27 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

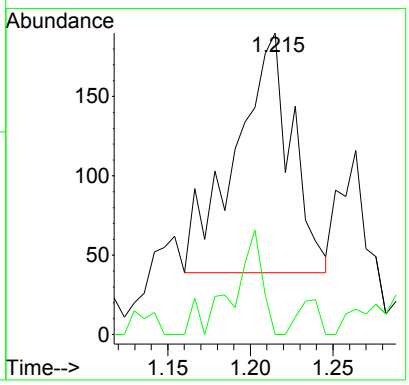


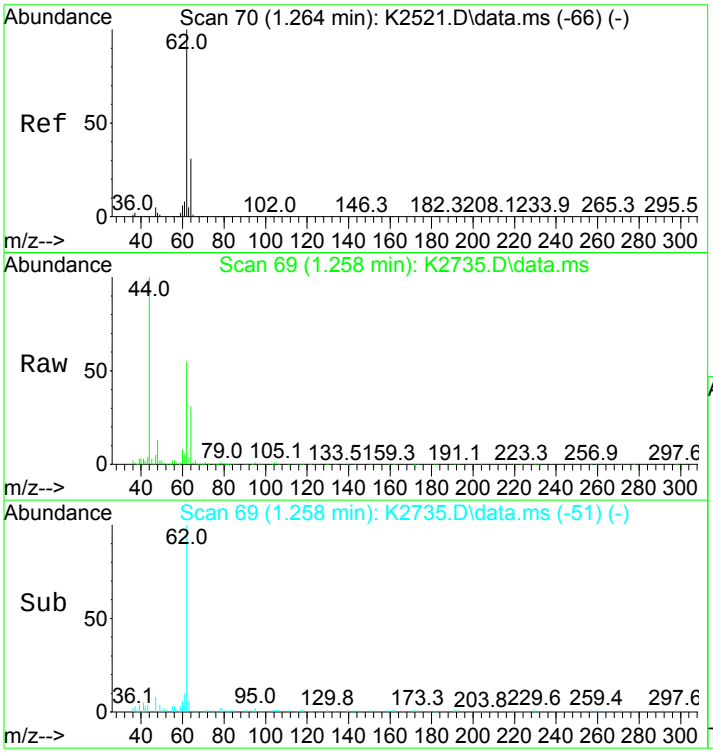


#4
Chloromethane
Concen: Below Cal
RT: 1.215 min Scan# 62
Delta R.T. 0.019 min
Lab File: K2735.D
Acq: 09 Jun 2024 07:12 pm

Tgt Ion: 50 Resp: 356

Ion	Ratio	Lower	Upper
50	100		
52	0.0	14.7	54.7#

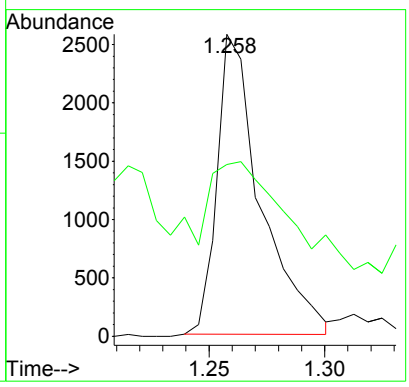


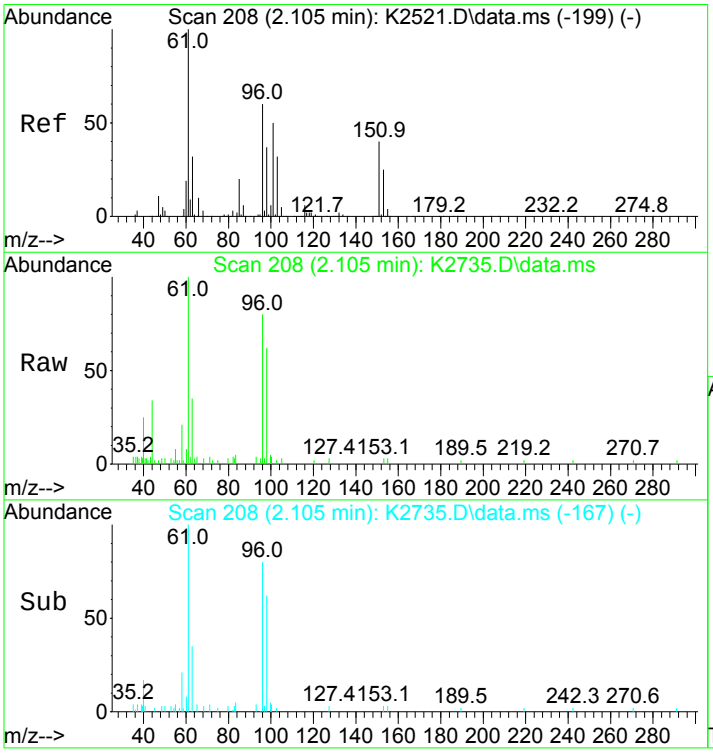


#5
Vinyl Chloride
Concen: 0.75 ug/L
RT: 1.258 min Scan# 69
Delta R.T. -0.006 min
Lab File: K2735.D
Acq: 09 Jun 2024 07:12 pm

Tgt Ion: 62 Resp: 3367

Ion	Ratio	Lower	Upper
62	100		
64	56.8	11.4	51.4#

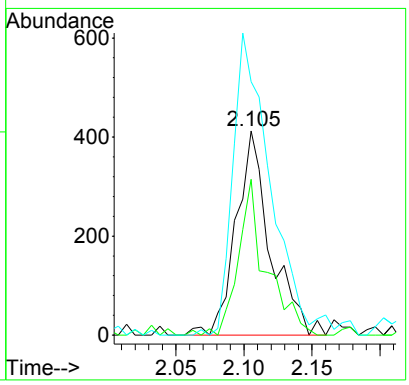


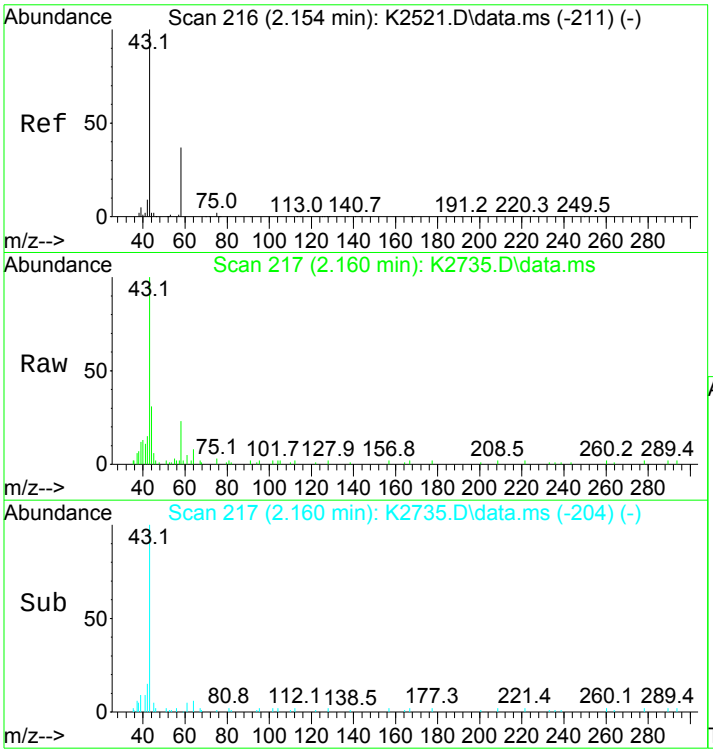


#14
1,1-Diclethene
Concen: 0.21 ug/L
RT: 2.105 min Scan# 208
Delta R.T. -0.000 min
Lab File: K2735.D
Acq: 09 Jun 2024 07:12 pm

Tgt Ion: 96 Resp: 729

Ion	Ratio	Lower	Upper
96	100		
98	76.5	42.5	82.5
61	124.3	147.7	187.7#

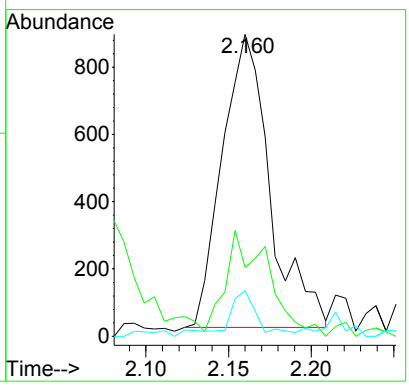


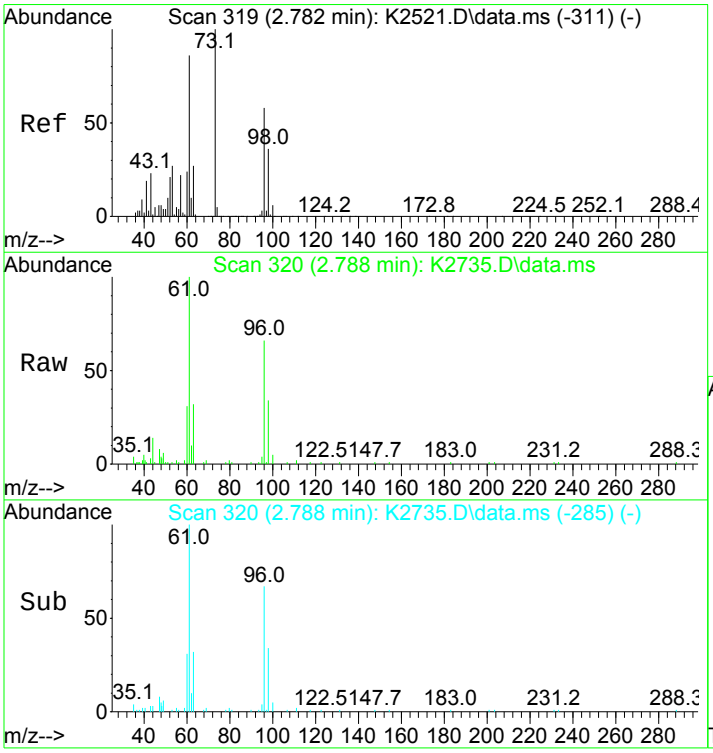


#16
Acetone
Concen: Below Cal
RT: 2.160 min Scan# 217
Delta R.T. 0.006 min
Lab File: K2735.D
Acq: 09 Jun 2024 07:12 pm

Tgt Ion: 43 Resp: 1761

Ion	Ratio	Lower	Upper
43	100		
58	22.7	16.2	56.2
42	15.1	0.0	28.5

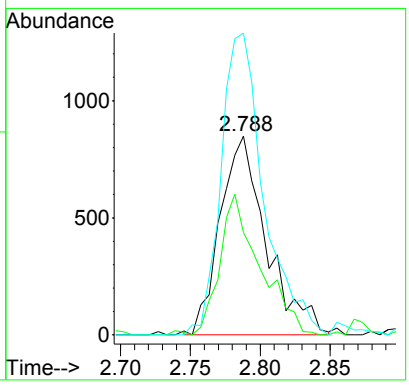


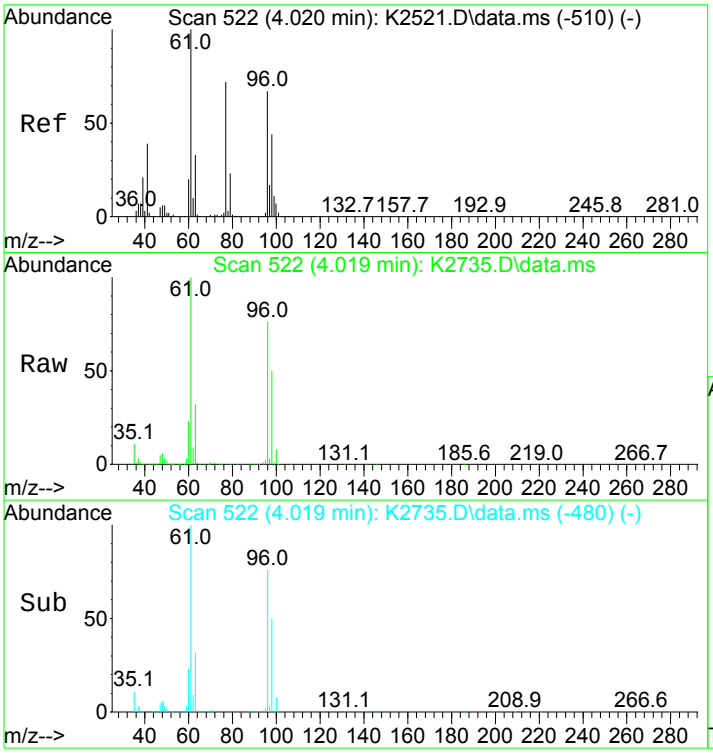


#27
trans-1,2-Dichloroethene
Concen: 0.54 ug/L m
RT: 2.788 min Scan# 320
Delta R.T. 0.006 min
Lab File: K2735.D
Acq: 09 Jun 2024 07:12 pm

Tgt Ion: 96 Resp: 1959

Ion	Ratio	Lower	Upper
96	100		
98	51.6	42.5	82.5
61	151.8	128.4	168.4

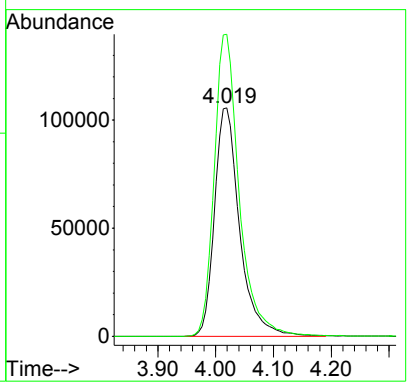


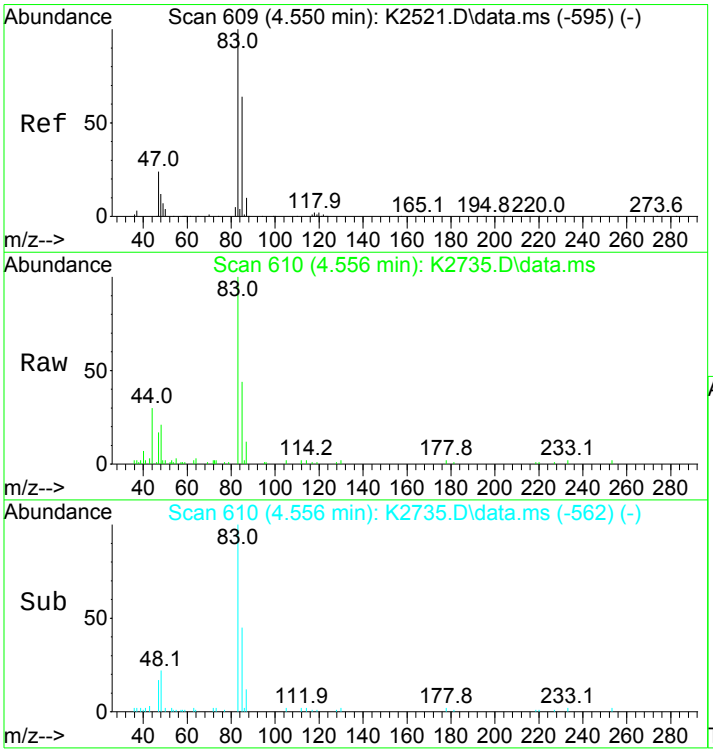


#34
cis-1,2-Dichloroethene
Concen: 77.48 ug/L
RT: 4.019 min Scan# 522
Delta R.T. -0.000 min
Lab File: K2735.D
Acq: 09 Jun 2024 07:12 pm

Tgt Ion: 96 Resp: 318478

Ion	Ratio	Lower	Upper
96	100		
61	132.2	129.5	169.5

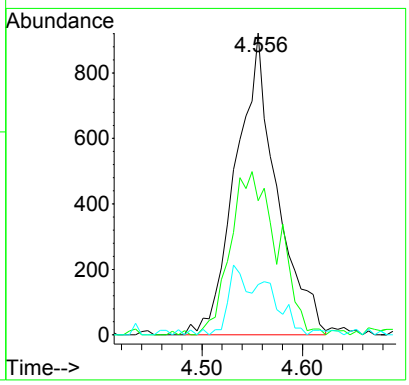


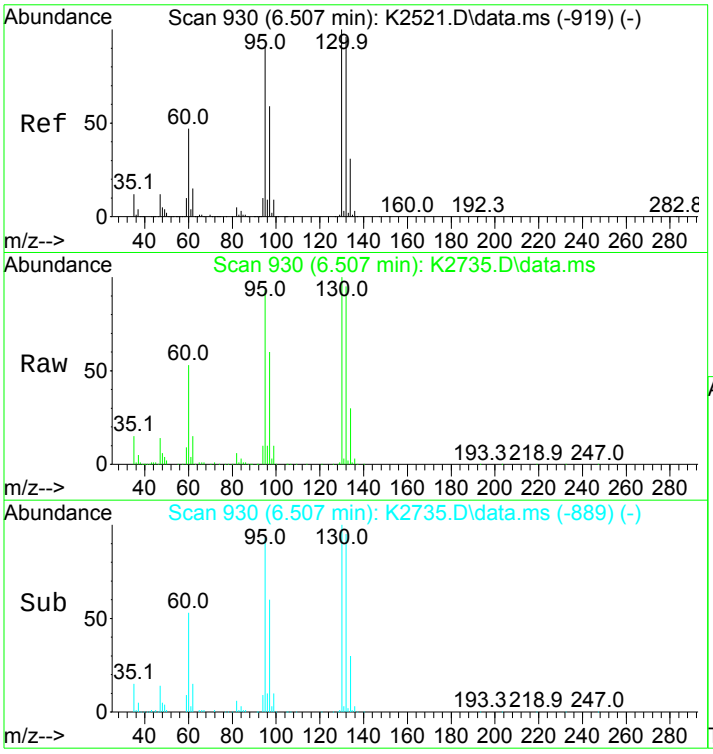


#40
Chloroform
Concen: 0.39 ug/L
RT: 4.556 min Scan# 610
Delta R.T. 0.006 min
Lab File: K2735.D
Acq: 09 Jun 2024 07:12 pm

Tgt Ion: 83 Resp: 2594

Ion	Ratio	Lower	Upper
83	100		
85	44.5	43.7	83.7
47	16.7	3.7	43.7

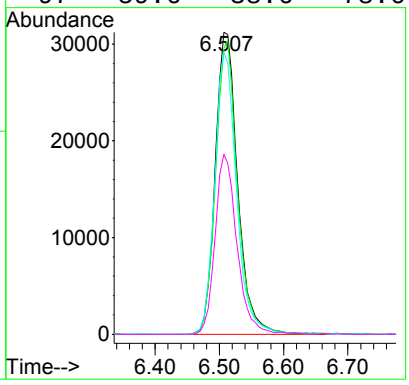




#54
Trichloroethene
Concen: 16.98 ug/L
RT: 6.507 min Scan# 930
Delta R.T. -0.000 min
Lab File: K2735.D
Acq: 09 Jun 2024 07:12 pm

Tgt Ion:130 Resp: 75708

Ion	Ratio	Lower	Upper
130	100		
132	94.7	76.3	116.3
95	93.3	71.1	111.1
97	59.6	38.6	78.6



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2730.D
Acq On : 09 Jun 2024 05:17 pm
Operator : K.Ruest
Sample : R2404674-005
Misc : CIVIL 8260 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 10 09:40:51 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

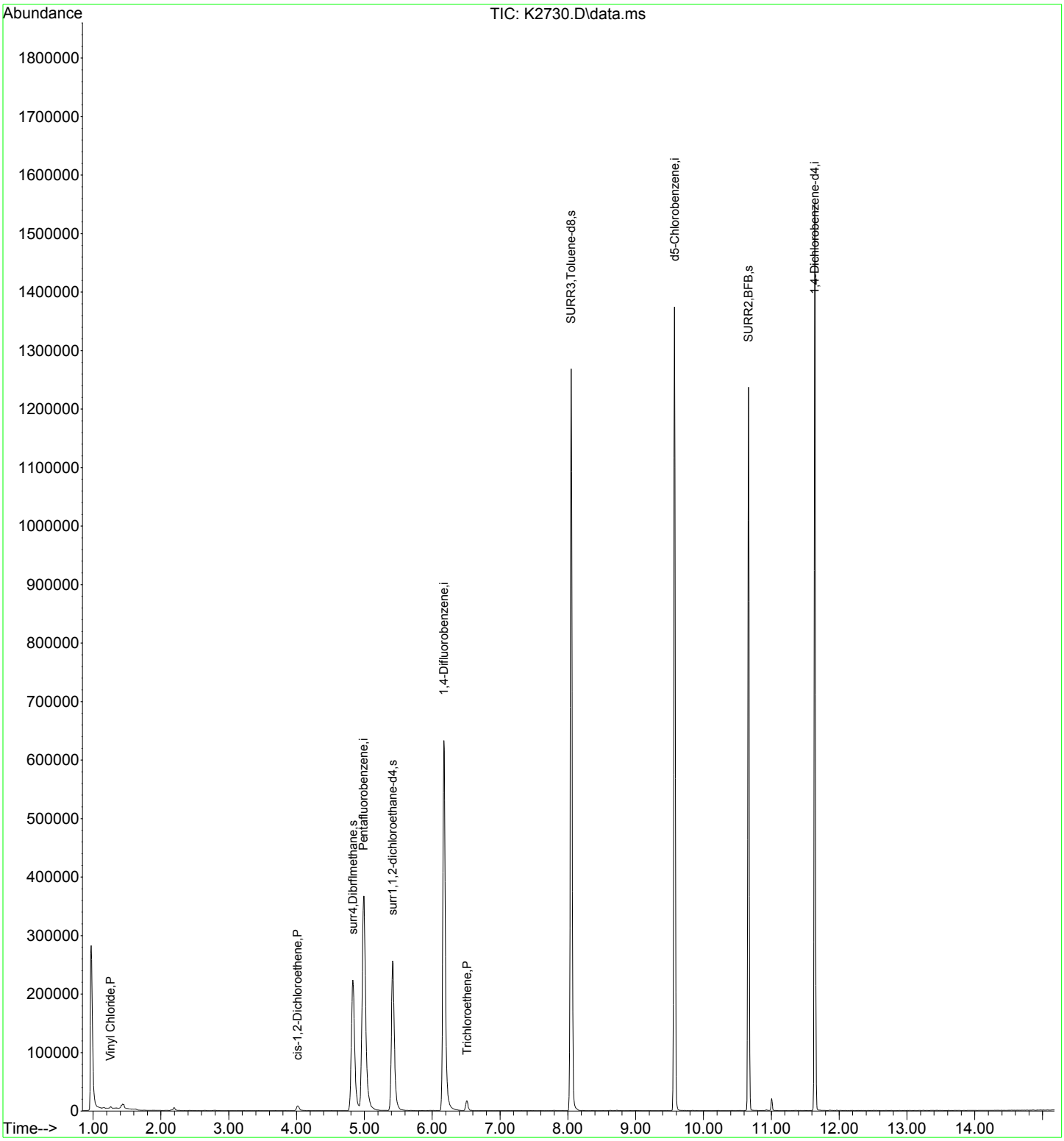
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.989	168	445479	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.171	114	709496	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.573	117	636526	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	11.640	152	296097	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.830	113	232089	48.55	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 97.10%			
48) surr1,1,2-dichloroetha...	5.416	65	289529	49.98	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 99.96%			
65) SURR3,Toluene-d8	8.049	98	828652	50.02	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 100.04%			
70) SURR2,BFB	10.665	95	317754	51.03	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.06%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.258	62	914	0.205	ug/L	74
16) Acetone	2.160	43	1943	Below Cal		97
34) cis-1,2-Dichloroethene	4.013	96	5542	1.355	ug/L	98
54) Trichloroethene	6.513	130	7753	1.740	ug/L	93

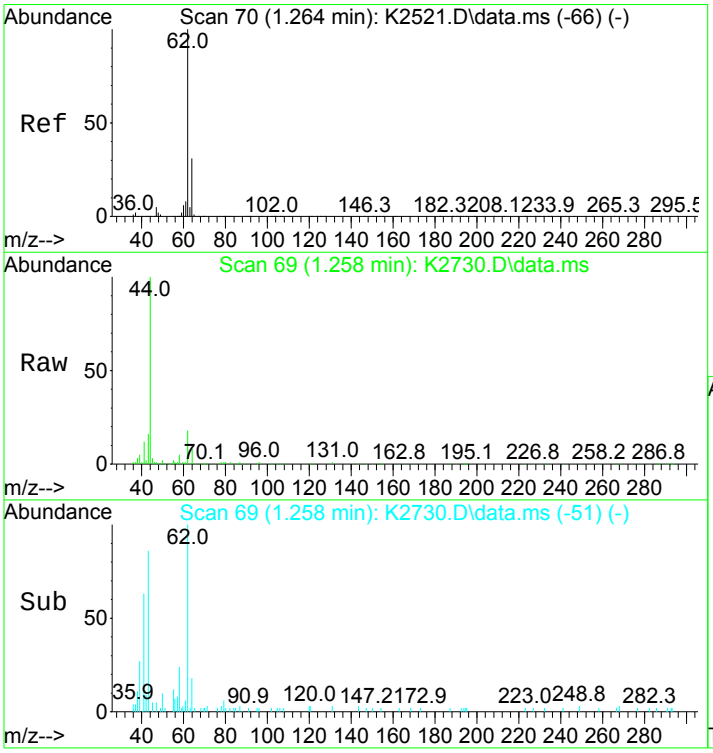
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2730.D
Acq On : 09 Jun 2024 05:17 pm
Operator : K.Ruest
Sample : R2404674-005
Misc : CIVIL 8260 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 10 09:40:51 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

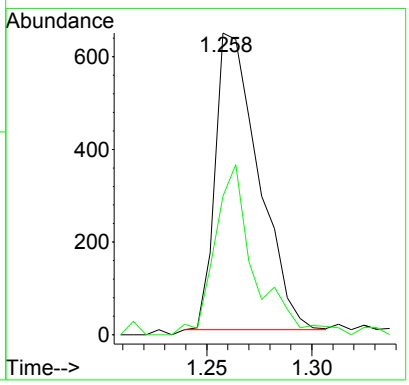


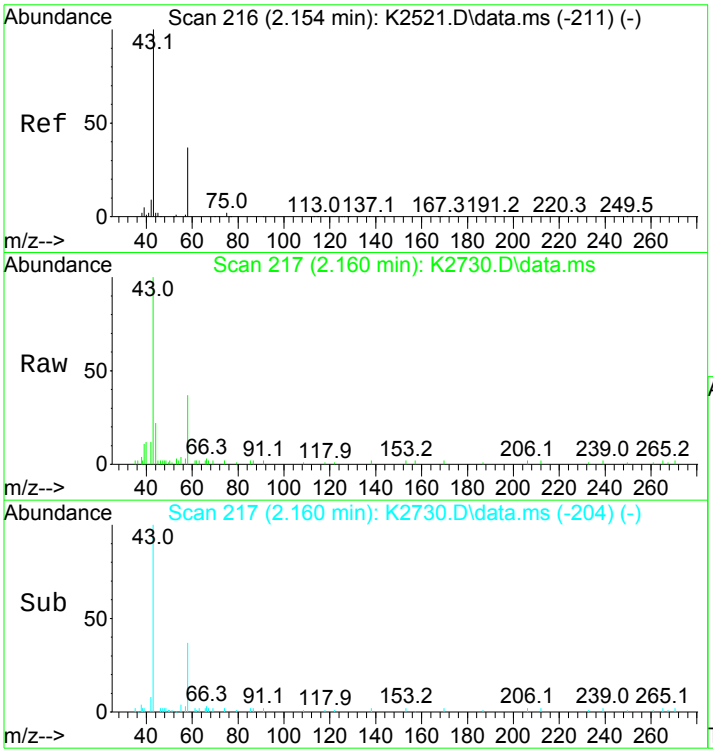


#5
Vinyl Chloride
Concen: 0.20 ug/L
RT: 1.258 min Scan# 69
Delta R.T. -0.006 min
Lab File: K2730.D
Acq: 09 Jun 2024 05:17 pm

Tgt Ion: 62 Resp: 914

Ion	Ratio	Lower	Upper
62	100		
64	45.9	11.4	51.4

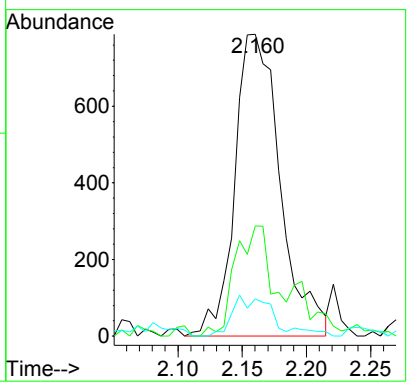


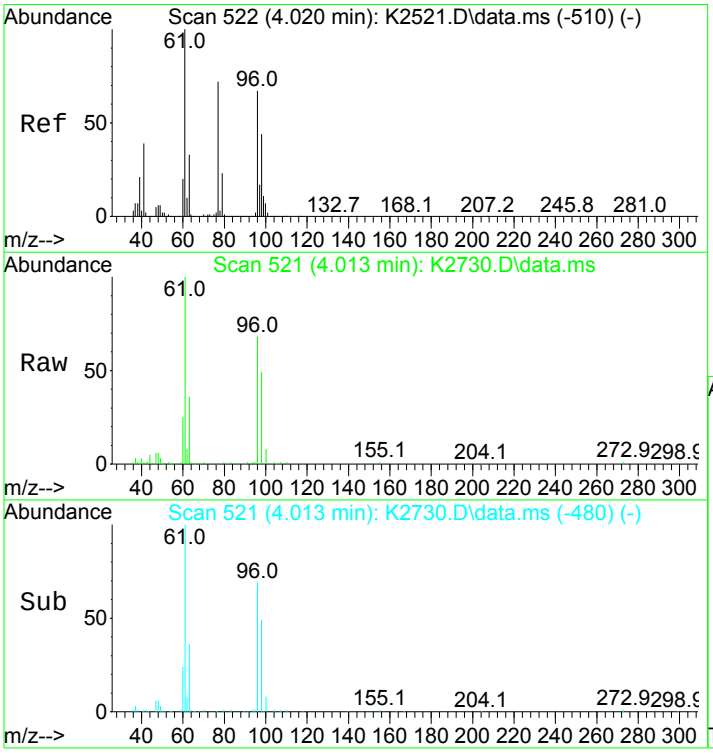


#16
Acetone
Concen: Below Cal
RT: 2.160 min Scan# 217
Delta R.T. 0.006 min
Lab File: K2730.D
Acq: 09 Jun 2024 05:17 pm

Tgt Ion: 43 Resp: 1943

Ion	Ratio	Lower	Upper
43	100		
58	36.5	16.2	56.2
42	12.3	0.0	28.5

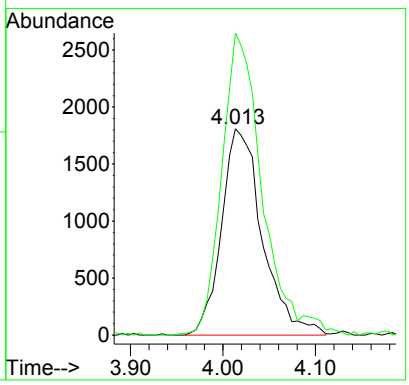


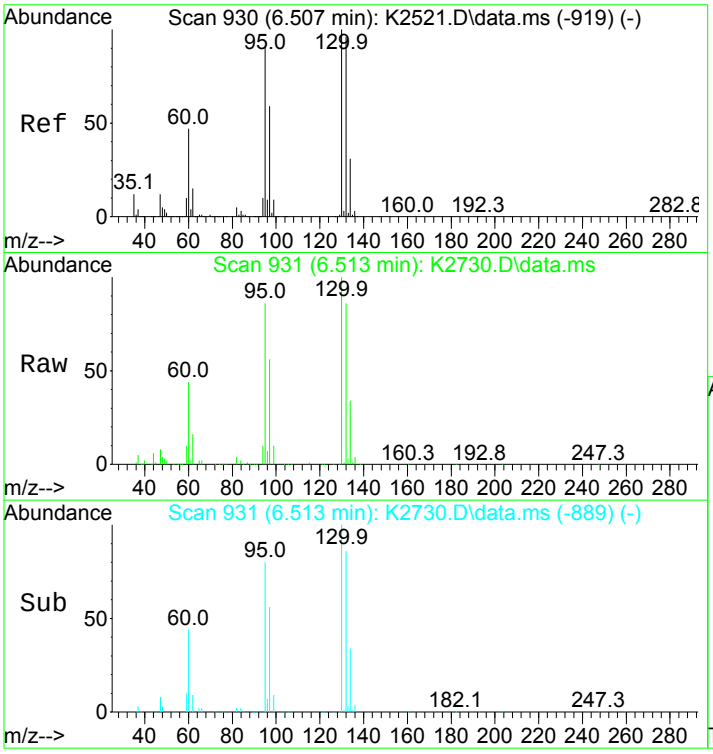


#34
cis-1,2-Dichloroethene
Concen: 1.36 ug/L
RT: 4.013 min Scan# 521
Delta R.T. -0.006 min
Lab File: K2730.D
Acq: 09 Jun 2024 05:17 pm

Tgt Ion: 96 Resp: 5542

Ion	Ratio	Lower	Upper
96	100		
61	146.4	129.5	169.5

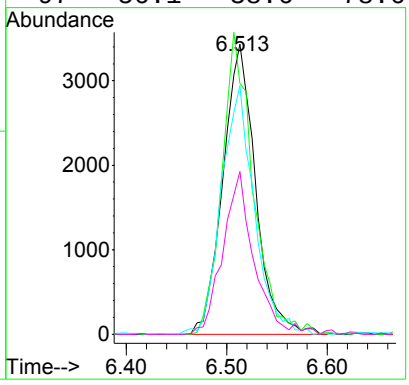




#54
Trichloroethene
Concen: 1.74 ug/L
RT: 6.513 min Scan# 931
Delta R.T. 0.006 min
Lab File: K2730.D
Acq: 09 Jun 2024 05:17 pm

Tgt Ion:130 Resp: 7753

Ion	Ratio	Lower	Upper
130	100		
132	86.4	76.3	116.3
95	85.6	71.1	111.1
97	56.1	38.6	78.6



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2736.D
Acq On : 09 Jun 2024 07:35 pm
Operator : K.Ruest
Sample : R2404674-006|2.5
Misc : CIVIL 8260 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 10 09:42:48 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

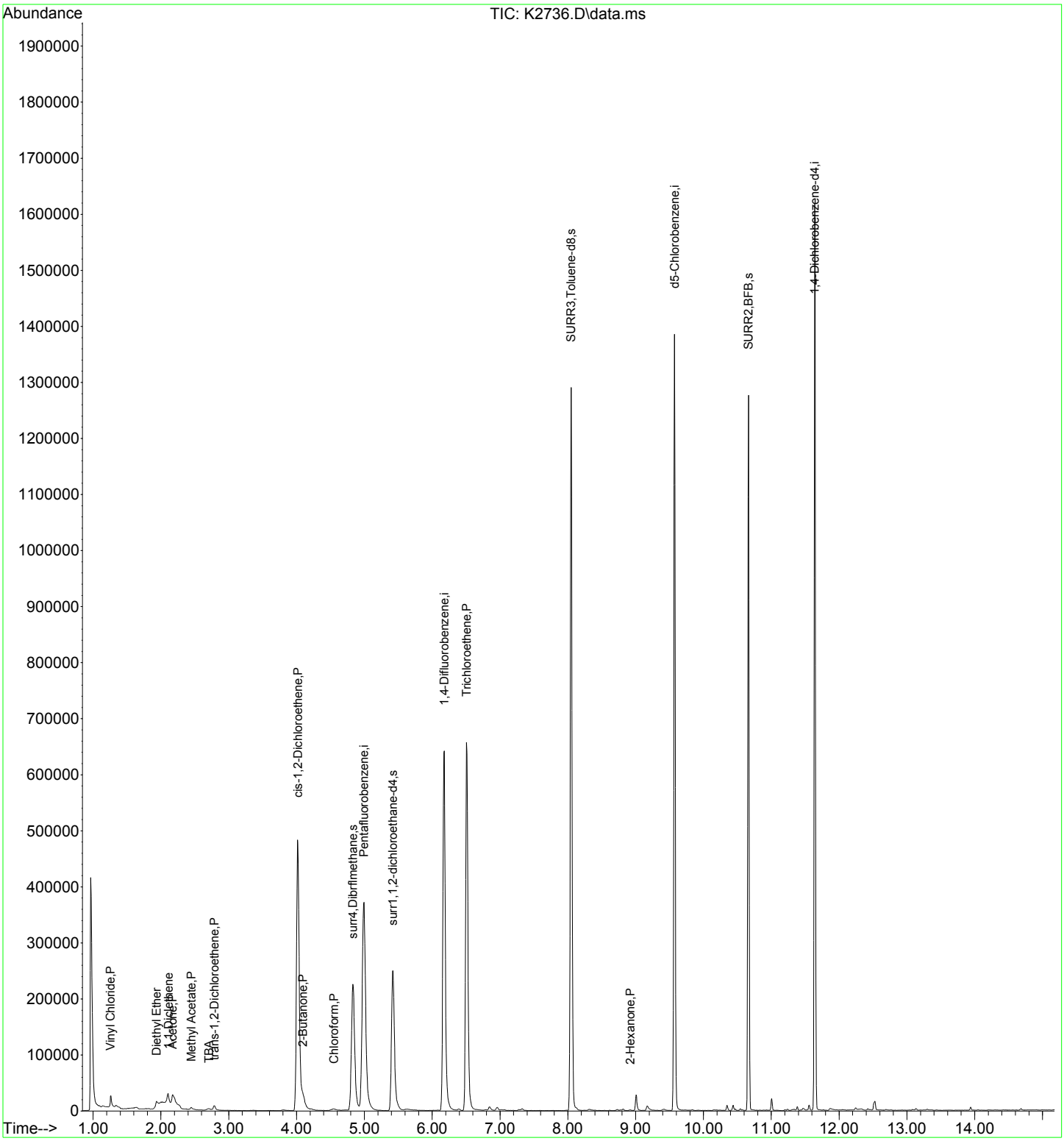
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.995	168	443312	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.178	114	700915	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.573	117	635805	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	11.640	152	312639	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.830	113	230824	48.88	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 97.76%			
48) surr1,1,2-dichloroetha...	5.422	65	286957	50.14	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.28%			
65) SURR3,Toluene-d8	8.049	98	831593	50.81	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.62%			
70) SURR2,BFB	10.665	95	334107	54.31	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 108.62%			
Target Compounds						Qvalue
4) Chloromethane	1.258	50	350	Below Cal	#	40
5) Vinyl Chloride	1.258	62	17285	3.891	ug/L	96
10) Diethyl Ether	1.934	59	5539	1.771	ug/L #	30
14) 1,1-Diclethene	2.111	96	5880	1.736	ug/L	94
16) Acetone	2.172	43	31536	26.630	ug/L	97
22) Methyl Acetate	2.447	43	5892	1.635	ug/L	88
24) TBA	2.709	59	6981	13.355	ug/L	97
27) trans-1,2-Dichloroethene	2.788	96	3149	0.881	ug/L	99
34) cis-1,2-Dichloroethene	4.019	96	314170	77.211	ug/L	86
35) 2-Butanone	4.093	43	35642	21.553	ug/L	98
40) Chloroform	4.550	83	1819	0.278	ug/L	91
54) Trichloroethene	6.507	130	279071	63.391	ug/L	100
73) 2-Hexanone	8.921	43	910	0.340	ug/L	94

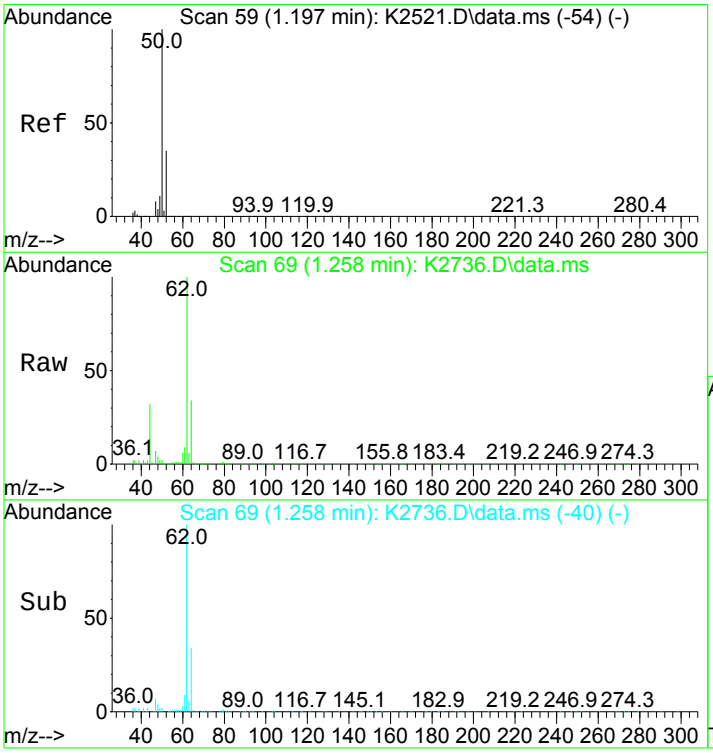
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2736.D
Acq On : 09 Jun 2024 07:35 pm
Operator : K.Ruest
Sample : R2404674-006|2.5
Misc : CIVIL 8260 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 10 09:42:48 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

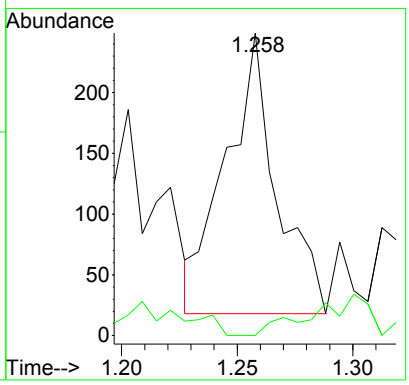


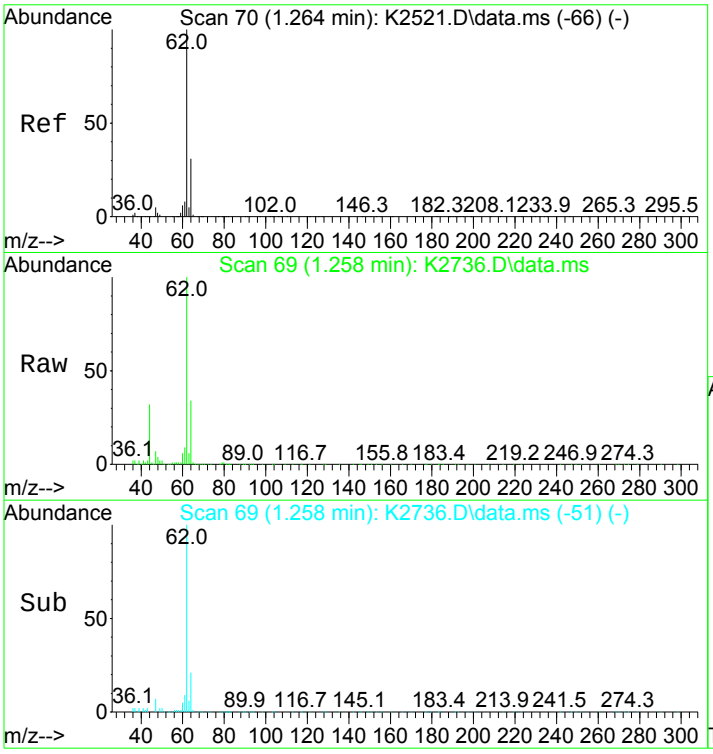


#4
Chloromethane
Concen: Below Cal
RT: 1.258 min Scan# 69
Delta R.T. 0.062 min
Lab File: K2736.D
Acq: 09 Jun 2024 07:35 pm

Tgt Ion: 50 Resp: 350

Ion	Ratio	Lower	Upper
50	100		
52	0.0	14.7	54.7#

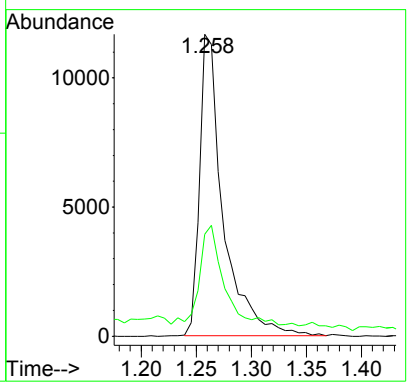


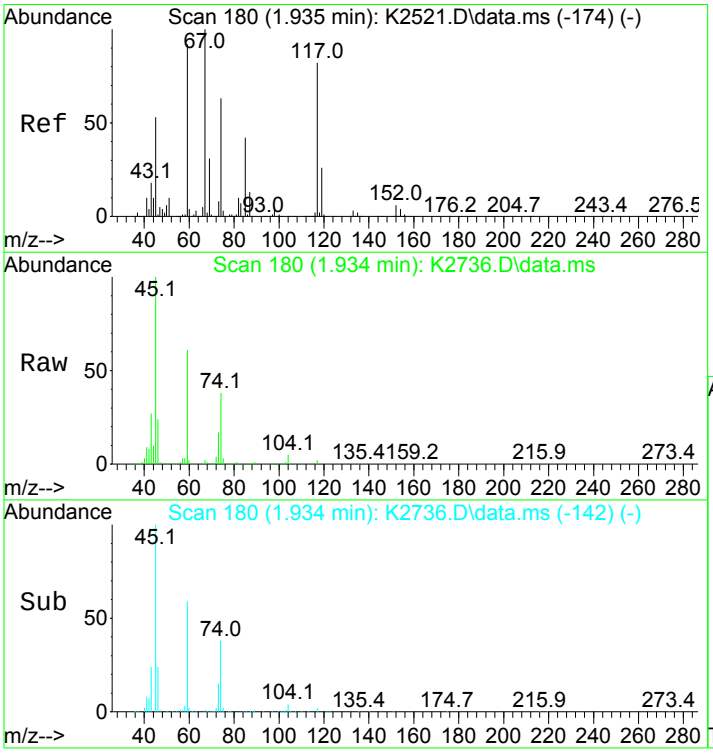


#5
Vinyl Chloride
Concen: 3.89 ug/L
RT: 1.258 min Scan# 69
Delta R.T. -0.006 min
Lab File: K2736.D
Acq: 09 Jun 2024 07:35 pm

Tgt Ion: 62 Resp: 17285

Ion	Ratio	Lower	Upper
62	100		
64	33.8	11.4	51.4

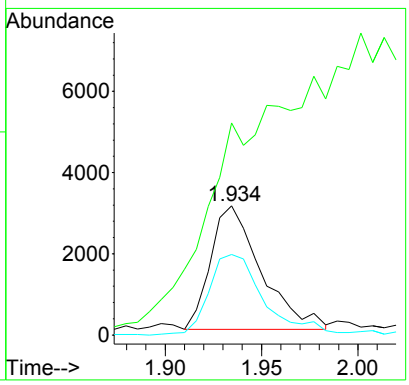


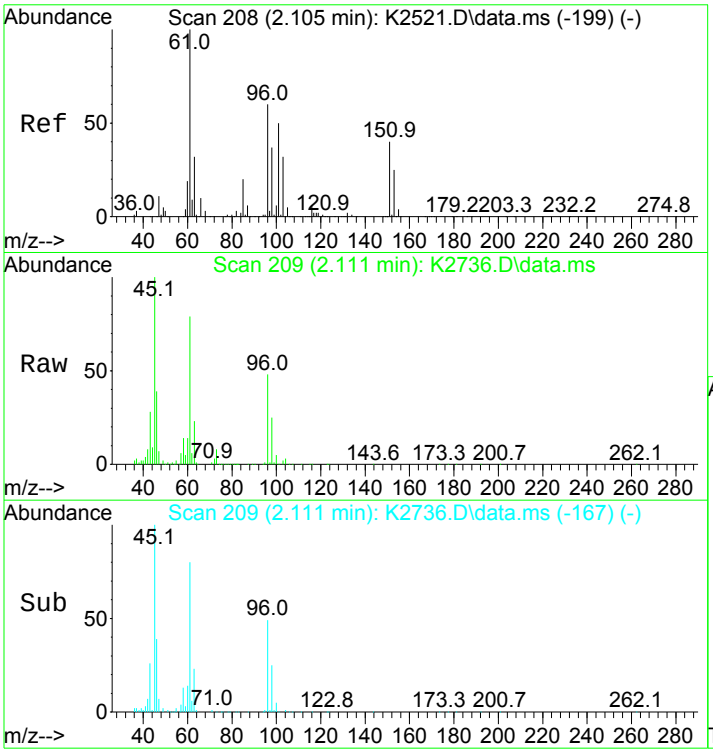


#10
Diethyl Ether
Concen: 1.77 ug/L
RT: 1.934 min Scan# 180
Delta R.T. -0.000 min
Lab File: K2736.D
Acq: 09 Jun 2024 07:35 pm

Tgt Ion: 59 Resp: 5539

Ion	Ratio	Lower	Upper
59	100		
45	164.4	37.0	77.0#
74	62.5	47.9	87.9

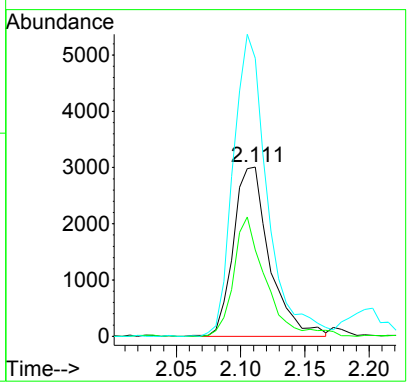


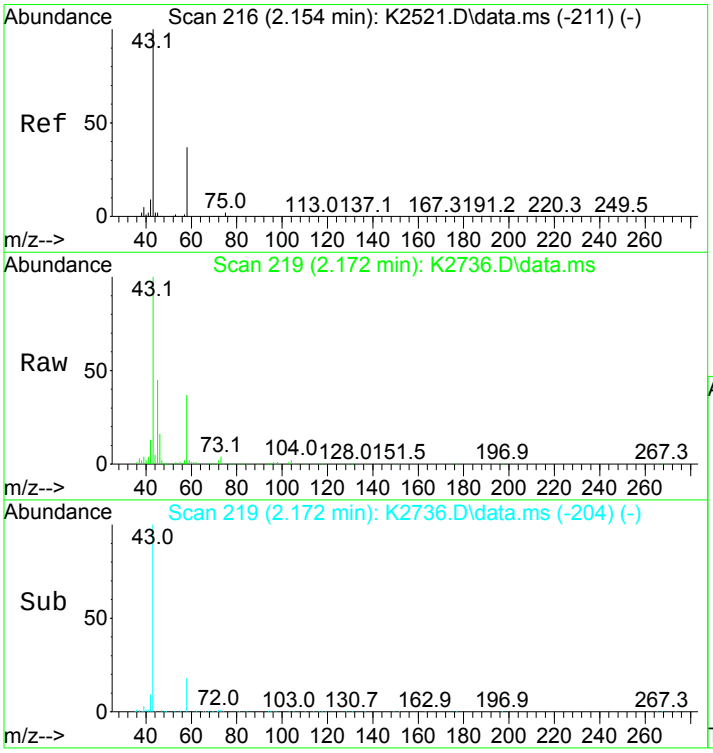


#14
1,1-Diclethene
Concen: 1.74 ug/L
RT: 2.111 min Scan# 209
Delta R.T. 0.006 min
Lab File: K2736.D
Acq: 09 Jun 2024 07:35 pm

Tgt Ion: 96 Resp: 5880

Ion	Ratio	Lower	Upper
96	100		
98	51.0	42.5	82.5
61	164.2	147.7	187.7

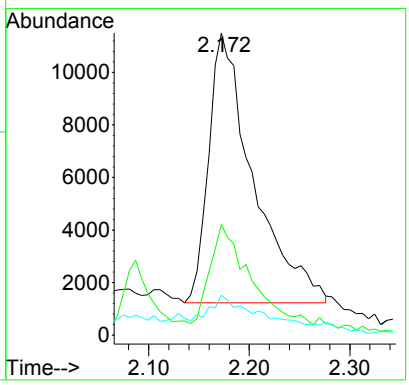


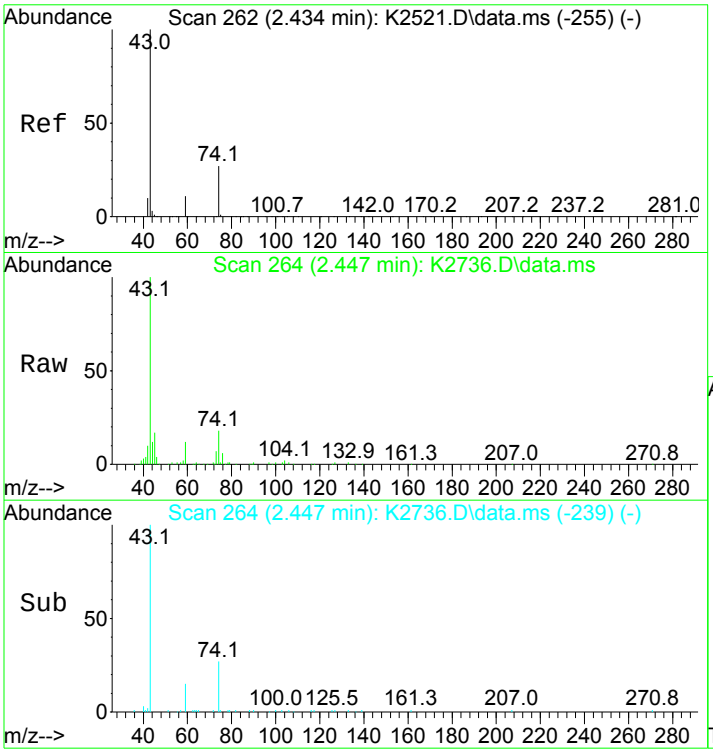


#16
Acetone
Concen: 26.63 ug/L
RT: 2.172 min Scan# 219
Delta R.T. 0.018 min
Lab File: K2736.D
Acq: 09 Jun 2024 07:35 pm

Tgt Ion: 43 Resp: 31536

Ion	Ratio	Lower	Upper
43	100		
58	36.6	16.2	56.2
42	13.2	0.0	28.5

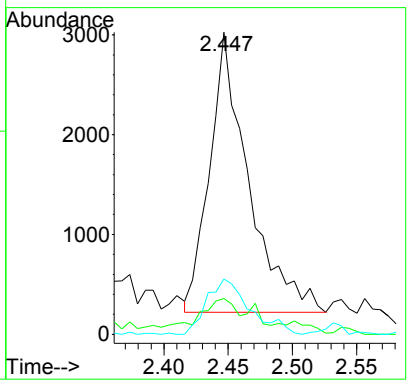


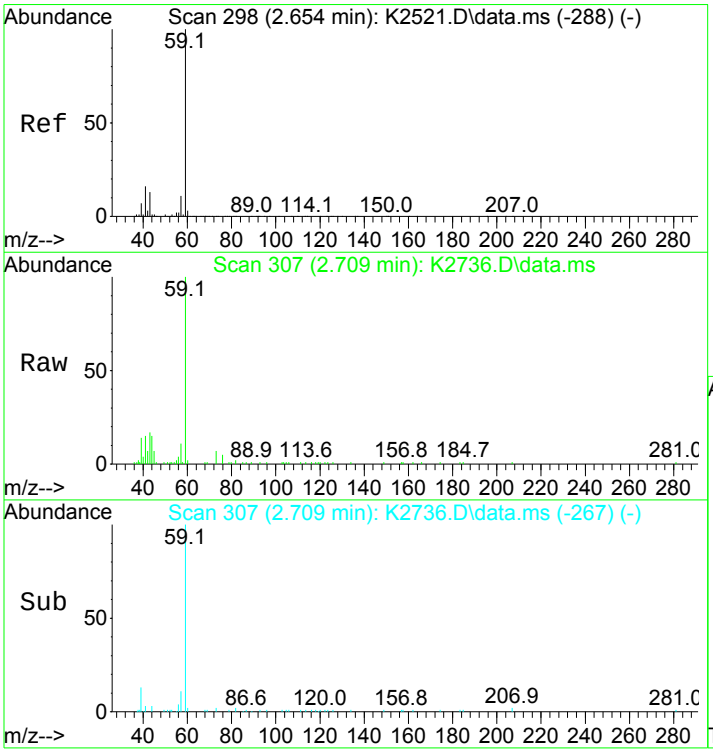


#22
Methyl Acetate
Concen: 1.63 ug/L
RT: 2.447 min Scan# 264
Delta R.T. 0.012 min
Lab File: K2736.D
Acq: 09 Jun 2024 07:35 pm

Tgt Ion: 43 Resp: 5892

Ion	Ratio	Lower	Upper
43	100		
59	11.8	0.0	31.1
74	18.3	6.8	46.8

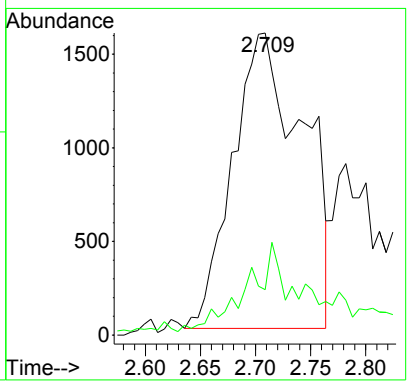


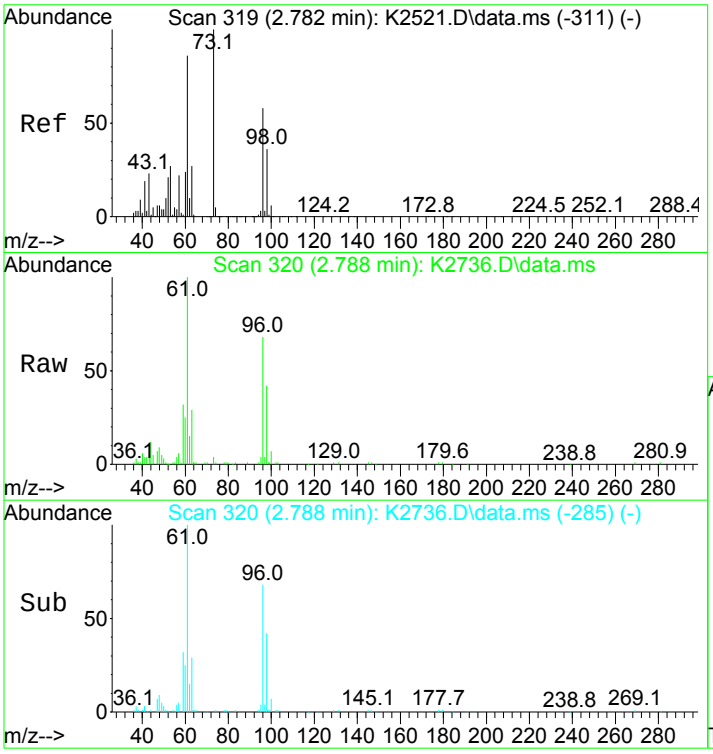


#24
TBA
Concen: 13.36 ug/L
RT: 2.709 min Scan# 307
Delta R.T. 0.055 min
Lab File: K2736.D
Acq: 09 Jun 2024 07:35 pm

Tgt Ion: 59 Resp: 6981

Ion	Ratio	Lower	Upper
59	100		
41	15.0	0.0	36.1

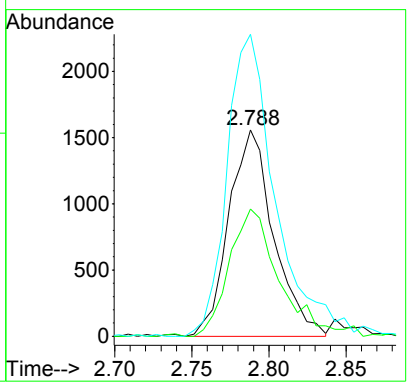


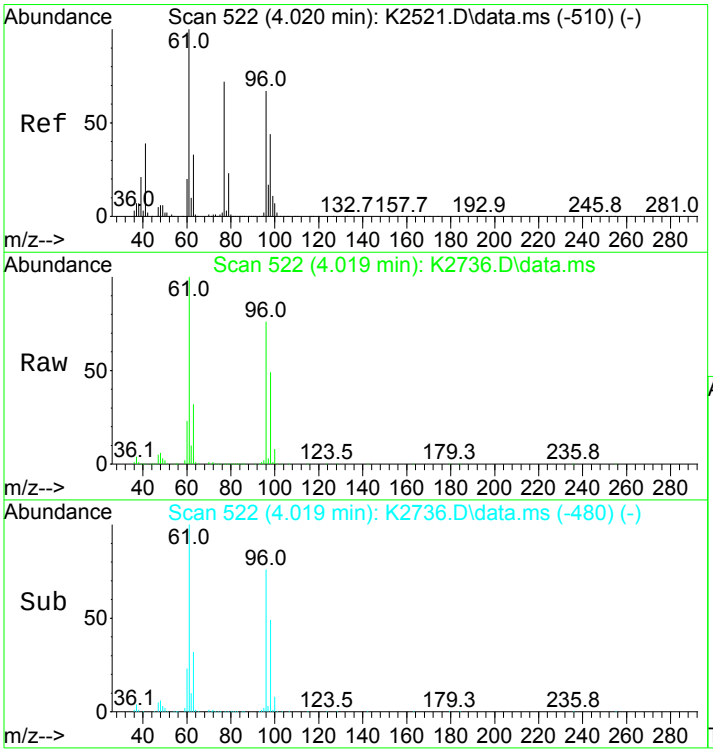


#27
trans-1,2-Dichloroethene
Concen: 0.88 ug/L
RT: 2.788 min Scan# 320
Delta R.T. 0.006 min
Lab File: K2736.D
Acq: 09 Jun 2024 07:35 pm

Tgt Ion: 96 Resp: 3149

Ion	Ratio	Lower	Upper
96	100		
98	61.6	42.5	82.5
61	146.3	128.4	168.4

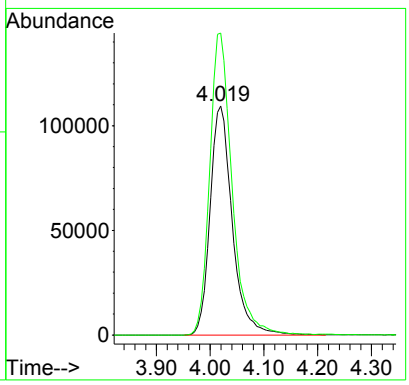


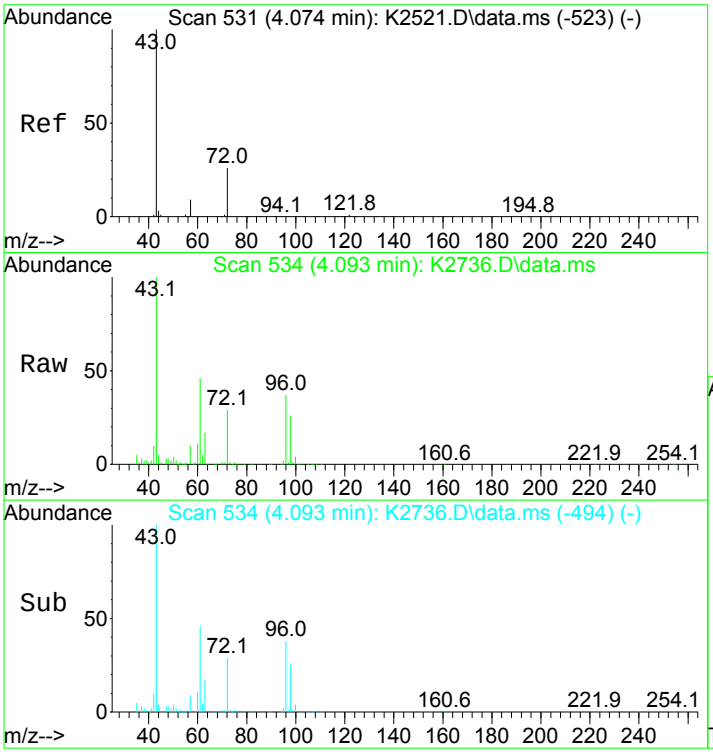


#34
cis-1,2-Dichloroethene
Concen: 77.21 ug/L
RT: 4.019 min Scan# 522
Delta R.T. -0.000 min
Lab File: K2736.D
Acq: 09 Jun 2024 07:35 pm

Tgt Ion: 96 Resp: 314170

Ion	Ratio	Lower	Upper
96	100		
61	131.9	129.5	169.5

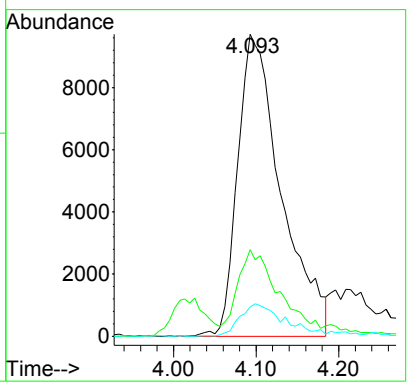


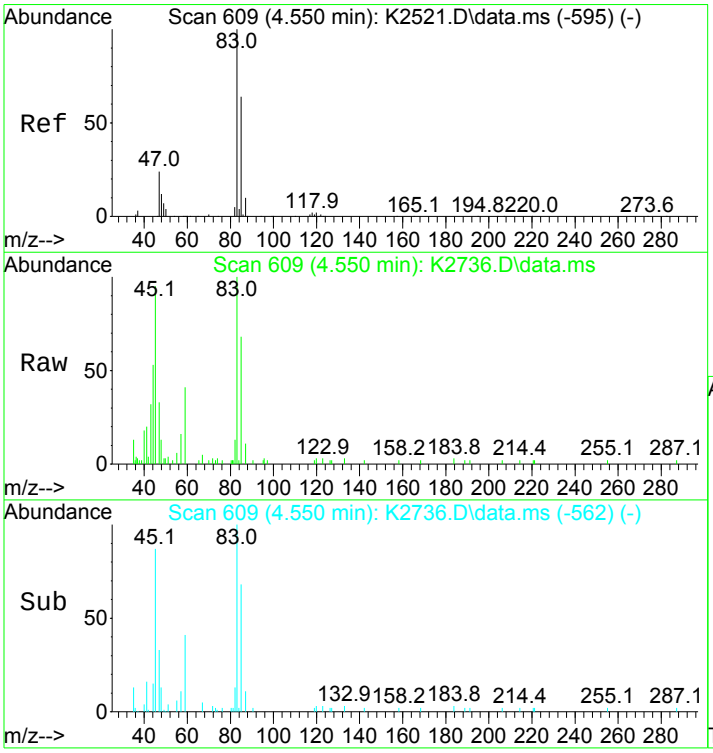


#35
2-Butanone
Concen: 21.55 ug/L
RT: 4.093 min Scan# 534
Delta R.T. 0.018 min
Lab File: K2736.D
Acq: 09 Jun 2024 07:35 pm

Tgt Ion: 43 Resp: 35642

Ion	Ratio	Lower	Upper
43	100		
72	28.6	8.0	48.0
57	9.7	0.0	30.7

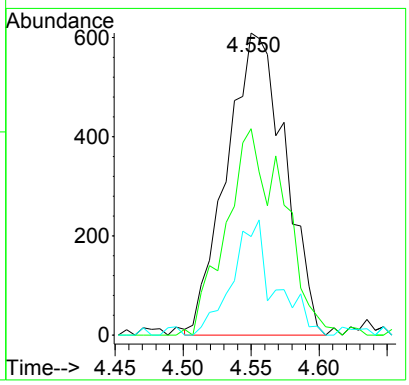


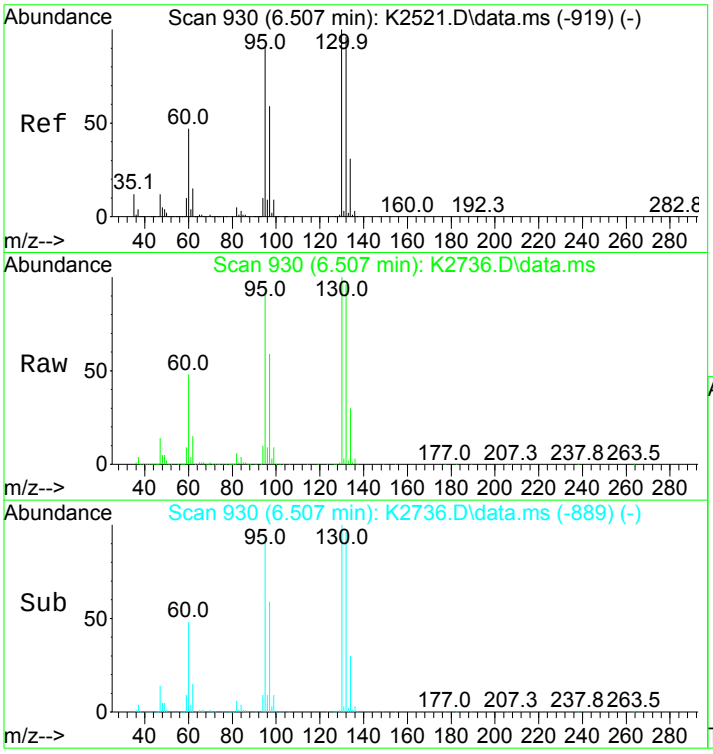


#40
Chloroform
Concen: 0.28 ug/L
RT: 4.550 min Scan# 609
Delta R.T. -0.000 min
Lab File: K2736.D
Acq: 09 Jun 2024 07:35 pm

Tgt Ion: 83 Resp: 1819

Ion	Ratio	Lower	Upper
83	100		
85	68.3	43.7	83.7
47	32.7	3.7	43.7

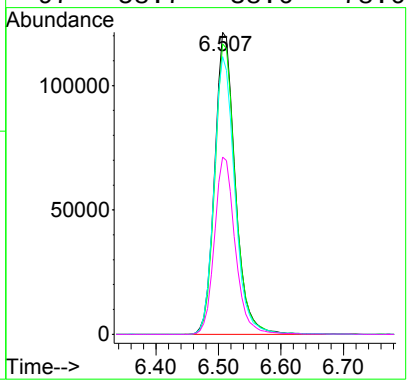


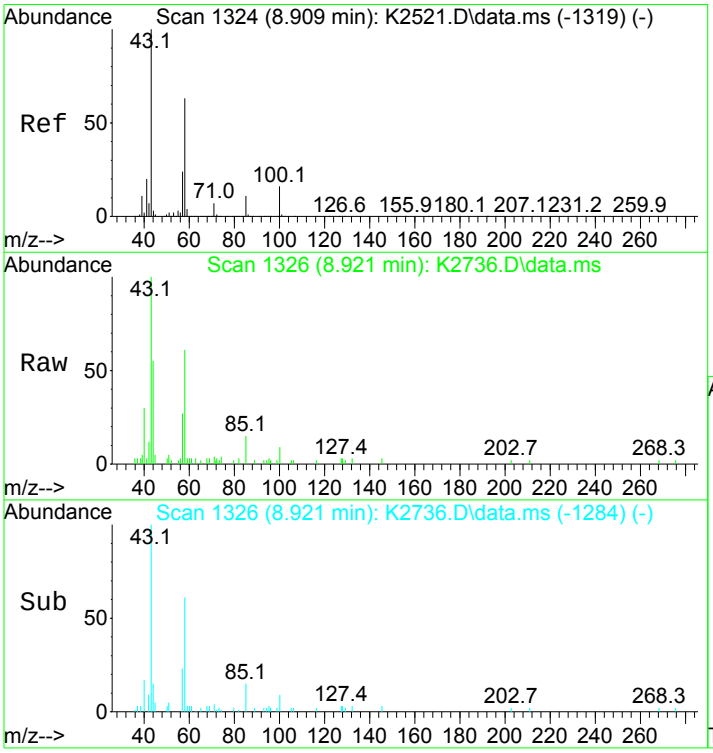


#54
Trichloroethene
Concen: 63.39 ug/L
RT: 6.507 min Scan# 930
Delta R.T. -0.000 min
Lab File: K2736.D
Acq: 09 Jun 2024 07:35 pm

Tgt Ion:130 Resp: 279071

Ion	Ratio	Lower	Upper
130	100		
132	96.2	76.3	116.3
95	91.9	71.1	111.1
97	58.7	38.6	78.6

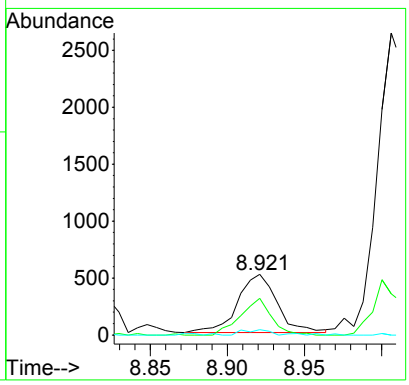




#73
2-Hexanone
Concen: 0.34 ug/L
RT: 8.921 min Scan# 1326
Delta R.T. 0.012 min
Lab File: K2736.D
Acq: 09 Jun 2024 07:35 pm

Tgt Ion: 43 Resp: 910

Ion	Ratio	Lower	Upper
43	100		
58	60.5	43.2	83.2
100	8.8	0.0	35.7



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2737.D
Acq On : 09 Jun 2024 07:58 pm
Operator : K.Ruest
Sample : R2404674-007|2.5
Misc : CIVIL 8260 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 10 09:43:16 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

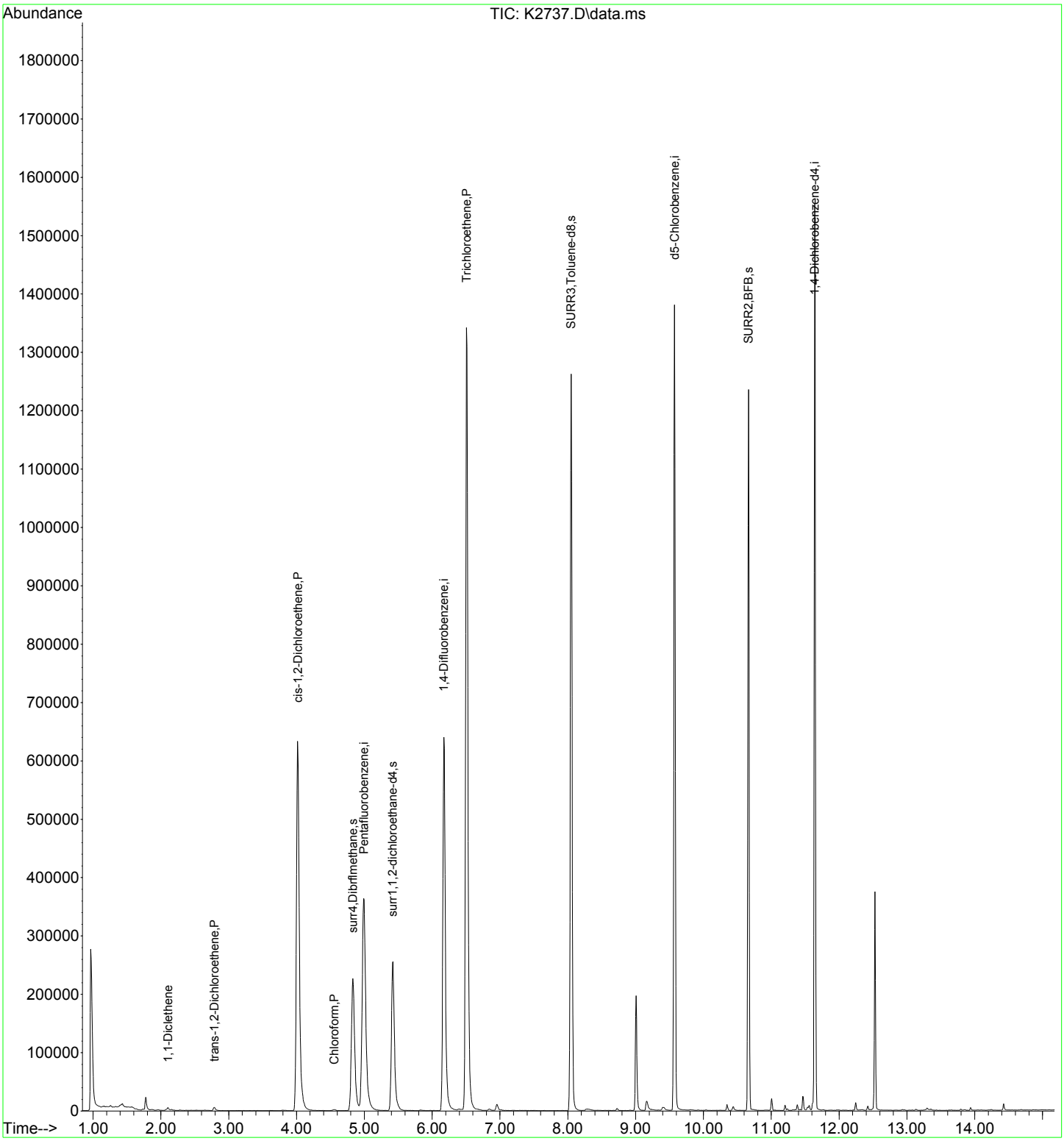
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.995	168	443825	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.172	114	706590	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.573	117	636305	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	11.640	152	303220	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.830	113	233590	49.06	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 98.12%			
48) surr1,1,2-dichloroetha...	5.416	65	291000	50.44	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.88%			
65) SURR3,Toluene-d8	8.049	98	824238	49.96	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.92%			
70) SURR2,BFB	10.665	95	322279	51.97	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 103.94%			
Target Compounds						Qvalue
14) 1,1-Diclethene	2.105	96	1434	0.423	ug/L	95
16) Acetone	2.160	43	1796	Below Cal		77
27) trans-1,2-Dichloroethene	2.788	96	2529	0.707	ug/L	95
34) cis-1,2-Dichloroethene	4.019	96	420399	103.199	ug/L	86
40) Chloroform	4.556	83	2445	0.374	ug/L	87
54) Trichloroethene	6.507	130	561705	126.566	ug/L	99

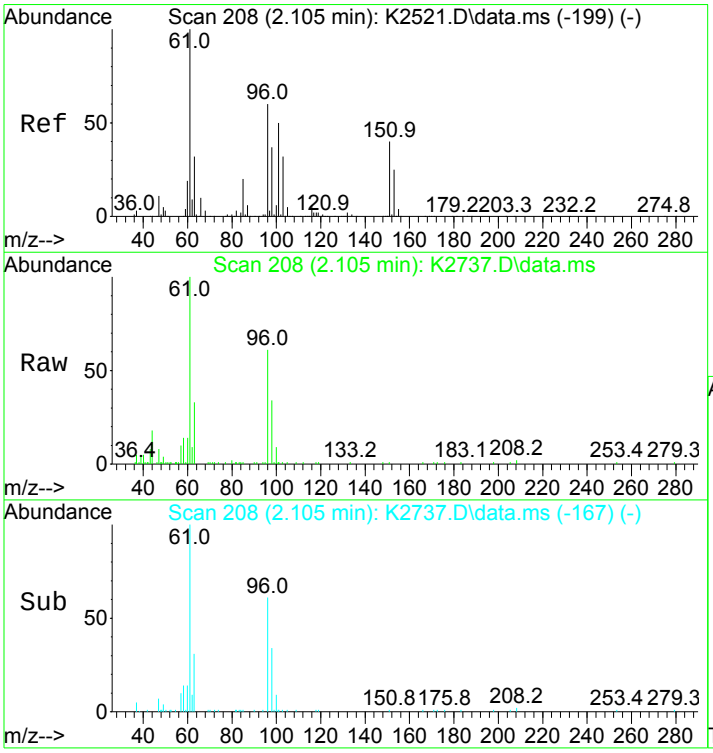
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2737.D
Acq On : 09 Jun 2024 07:58 pm
Operator : K.Ruest
Sample : R2404674-007|2.5
Misc : CIVIL 8260 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 10 09:43:16 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

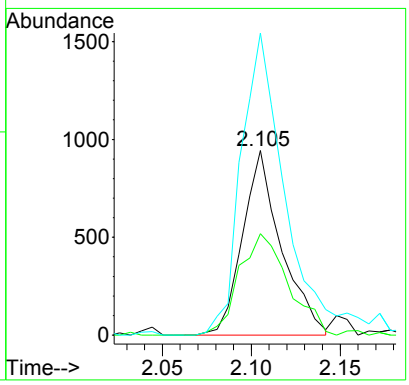


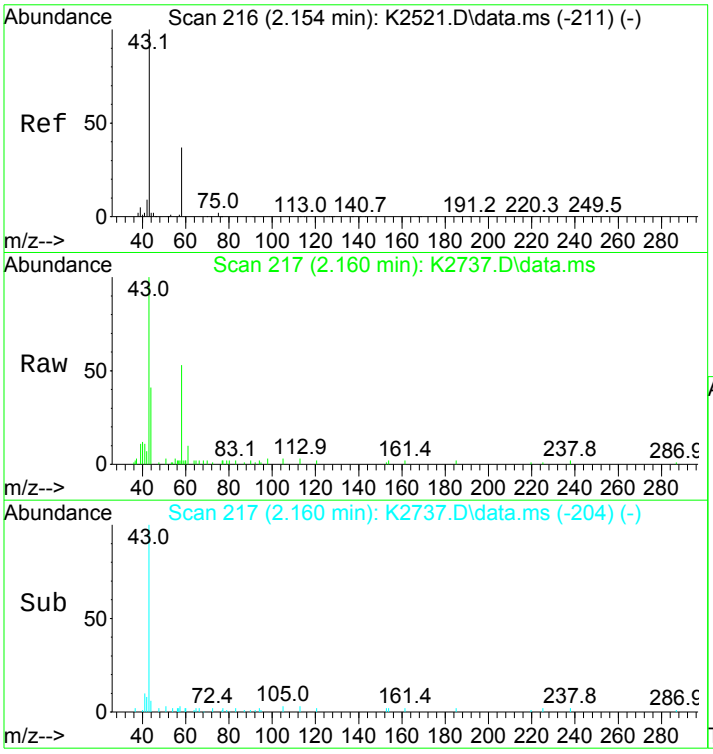


#14
1,1-Diclethene
Concen: 0.42 ug/L
RT: 2.105 min Scan# 208
Delta R.T. -0.000 min
Lab File: K2737.D
Acq: 09 Jun 2024 07:58 pm

Tgt Ion: 96 Resp: 1434

Ion	Ratio	Lower	Upper
96	100		
98	54.9	42.5	82.5
61	163.7	147.7	187.7

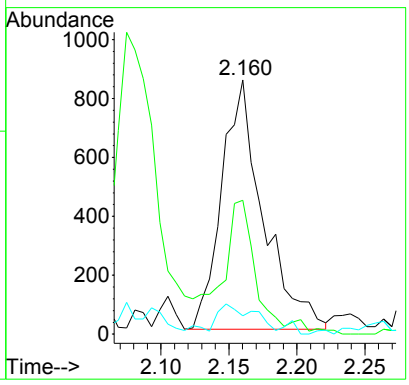


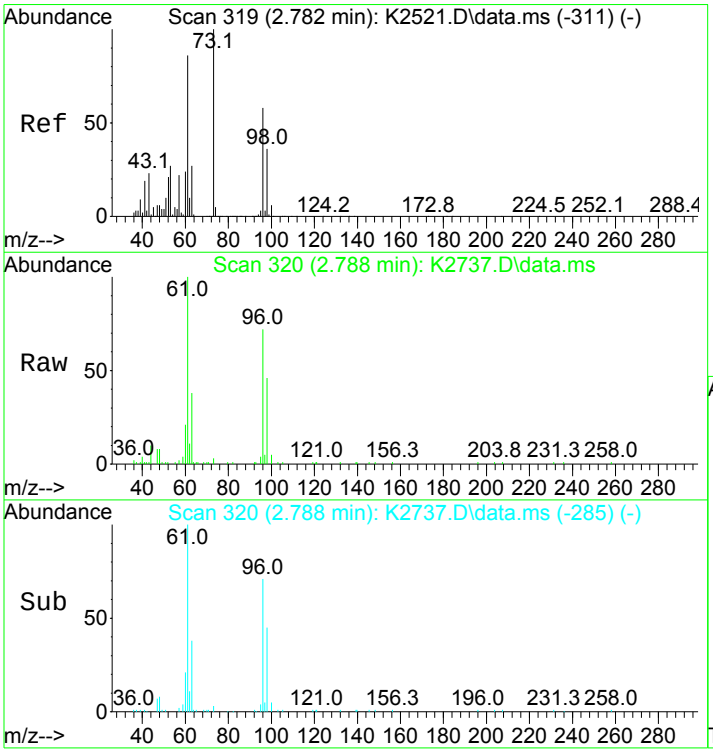


#16
Acetone
Concen: Below Cal
RT: 2.160 min Scan# 217
Delta R.T. 0.006 min
Lab File: K2737.D
Acq: 09 Jun 2024 07:58 pm

Tgt Ion: 43 Resp: 1796

Ion	Ratio	Lower	Upper
43	100		
58	52.7	16.2	56.2
42	7.2	0.0	28.5

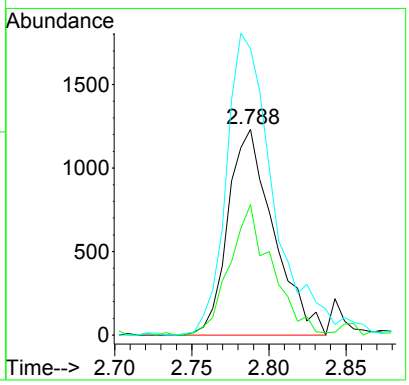


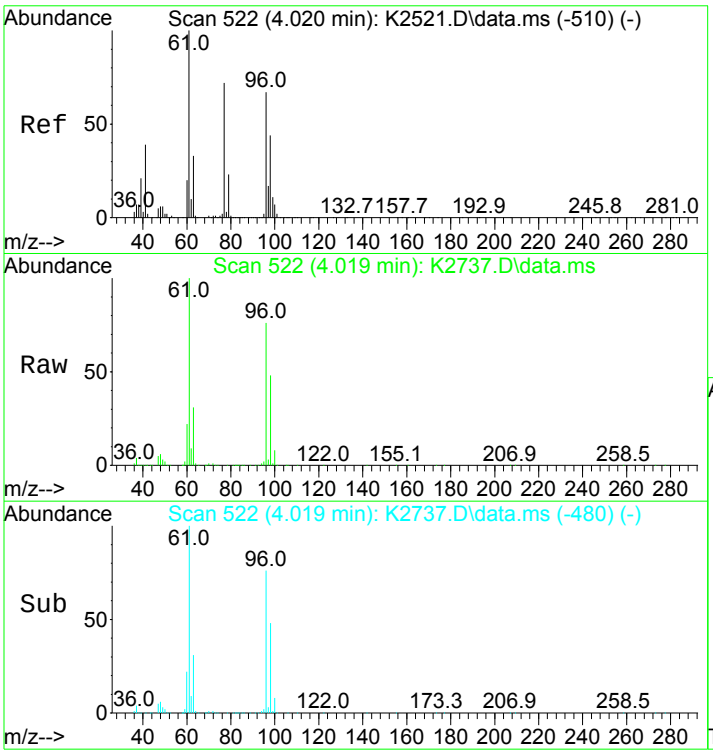


#27
trans-1,2-Dichloroethene
Concen: 0.71 ug/L
RT: 2.788 min Scan# 320
Delta R.T. 0.006 min
Lab File: K2737.D
Acq: 09 Jun 2024 07:58 pm

Tgt Ion: 96 Resp: 2529

Ion	Ratio	Lower	Upper
96	100		
98	63.4	42.5	82.5
61	139.2	128.4	168.4

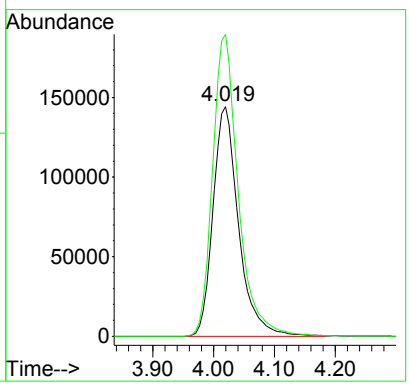


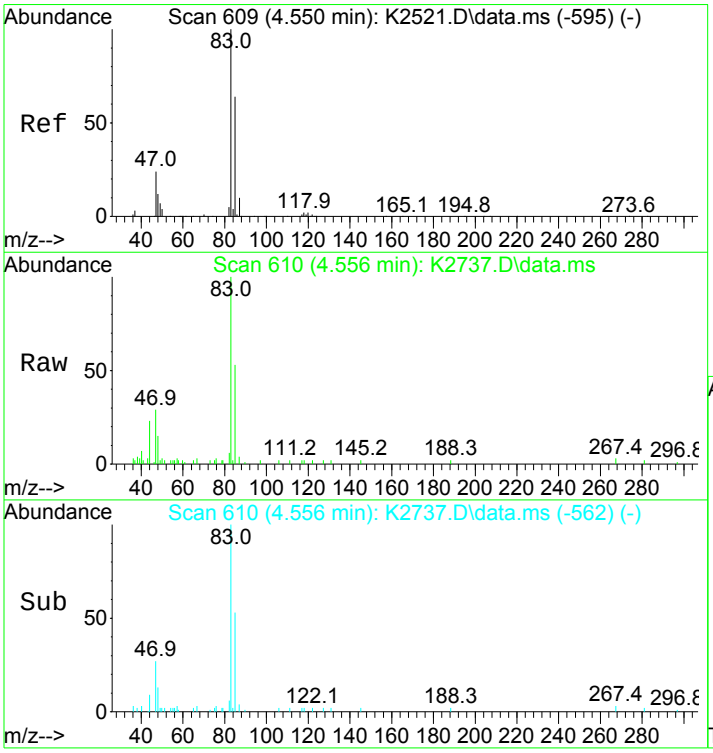


#34
cis-1,2-Dichloroethene
Concen: 103.20 ug/L
RT: 4.019 min Scan# 522
Delta R.T. -0.000 min
Lab File: K2737.D
Acq: 09 Jun 2024 07:58 pm

Tgt Ion: 96 Resp: 420399

Ion	Ratio	Lower	Upper
96	100		
61	131.4	129.5	169.5

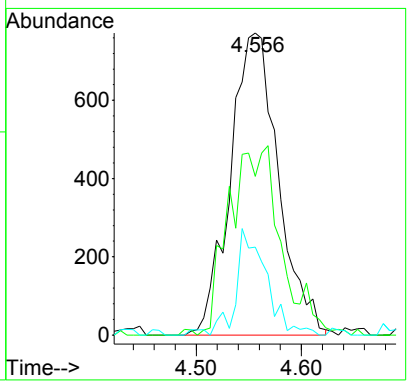


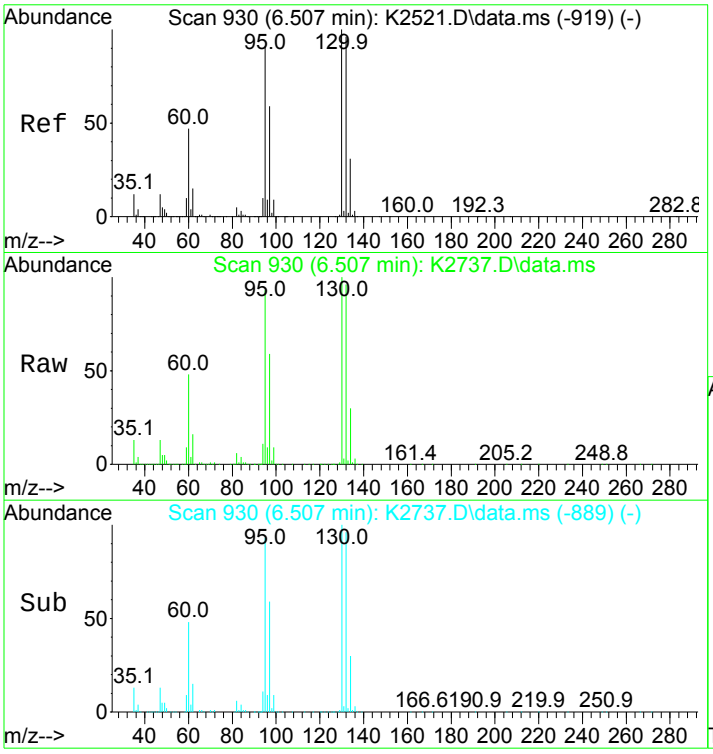


#40
Chloroform
Concen: 0.37 ug/L
RT: 4.556 min Scan# 610
Delta R.T. 0.006 min
Lab File: K2737.D
Acq: 09 Jun 2024 07:58 pm

Tgt Ion: 83 Resp: 2445

Ion	Ratio	Lower	Upper
83	100		
85	52.6	43.7	83.7
47	29.1	3.7	43.7

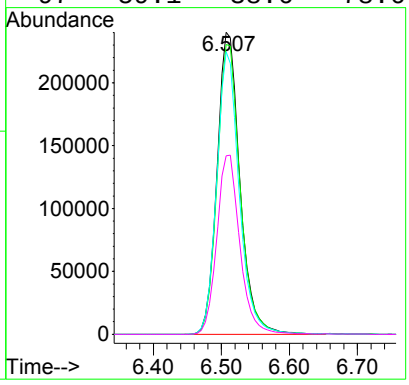




#54
Trichloroethene
Concen: 126.57 ug/L
RT: 6.507 min Scan# 930
Delta R.T. -0.000 min
Lab File: K2737.D
Acq: 09 Jun 2024 07:58 pm

Tgt Ion:130 Resp: 561705

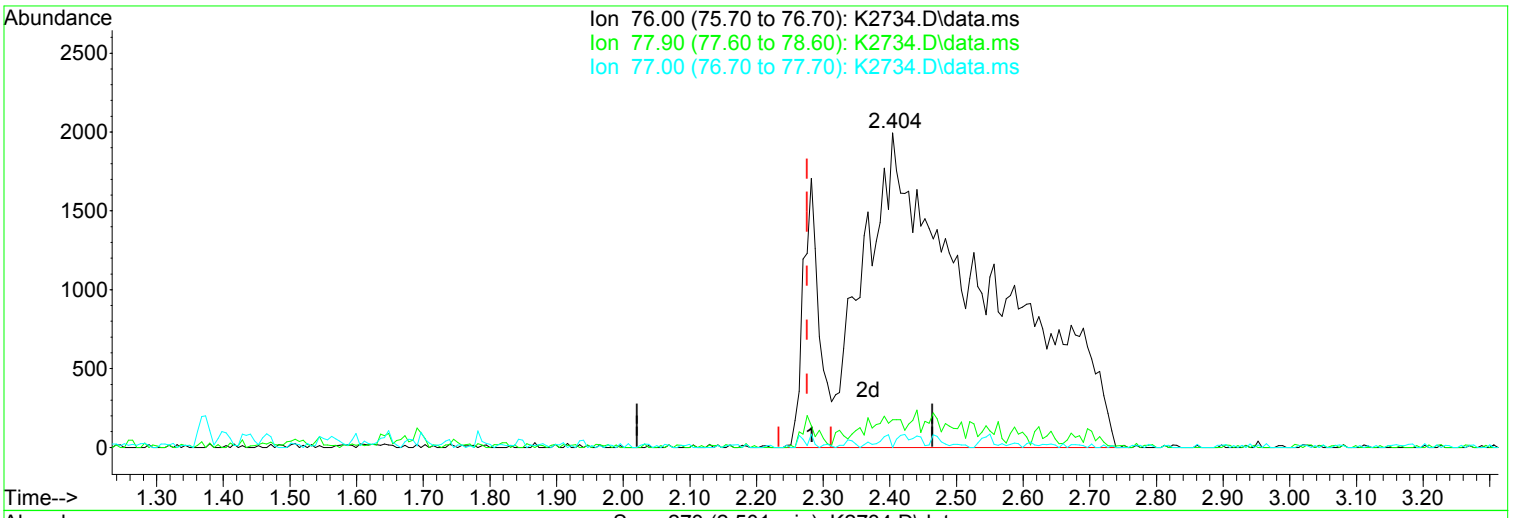
Ion	Ratio	Lower	Upper
130	100		
132	96.0	76.3	116.3
95	93.5	71.1	111.1
97	59.1	38.6	78.6

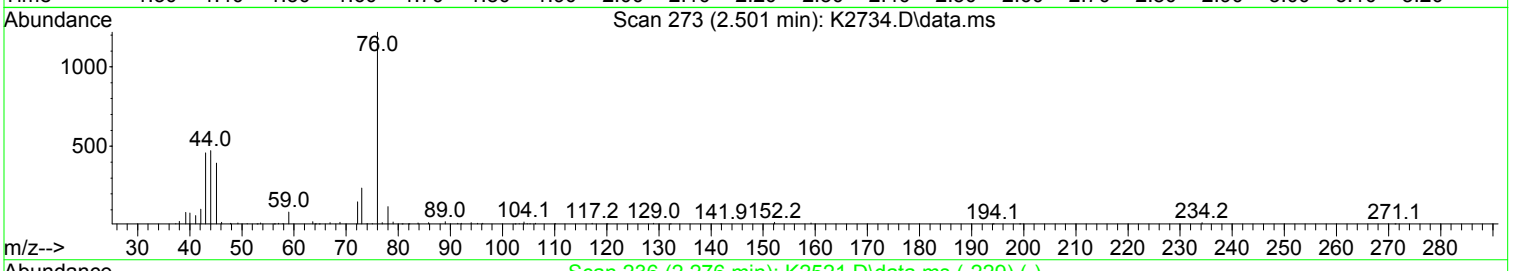


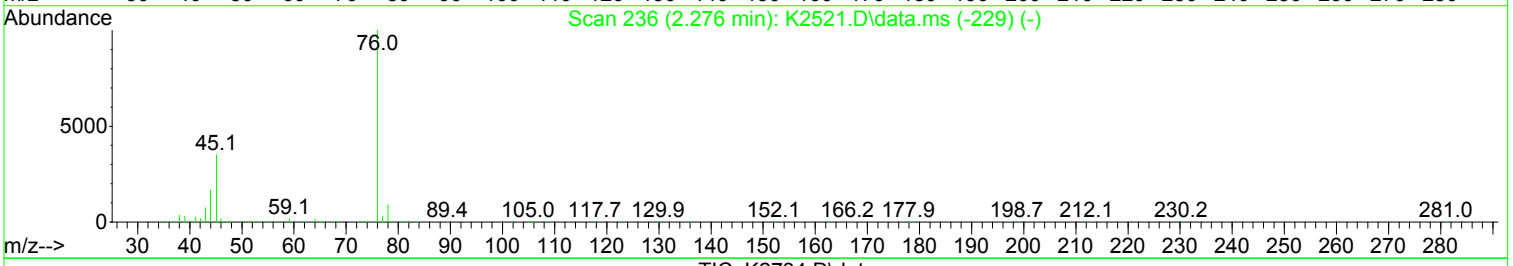
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2734.D
Acq On : 09 Jun 2024 06:49 pm
Operator : K.Ruest
Sample : R2404674-008
Misc : CIVIL 8260 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 10 09:41:54 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2734.D\data.ms

(19) Carbon Disulfide (P)

2.404min (+ 0.128) 3.06 ug/L m

response 28274

Ion	Exp%	Act%
76.00	100.00	100.00
77.90	8.90	8.83
77.00	2.80	0.00
0.00	0.00	0.00

Manual Integration:

After

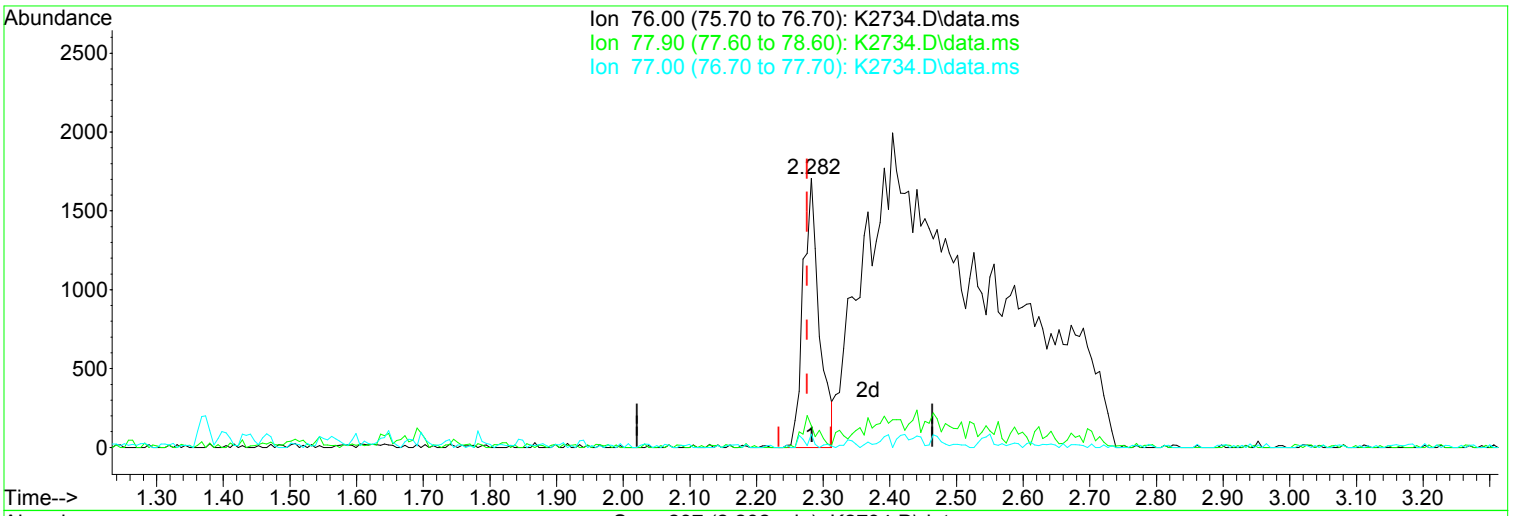
Other - so2 interference

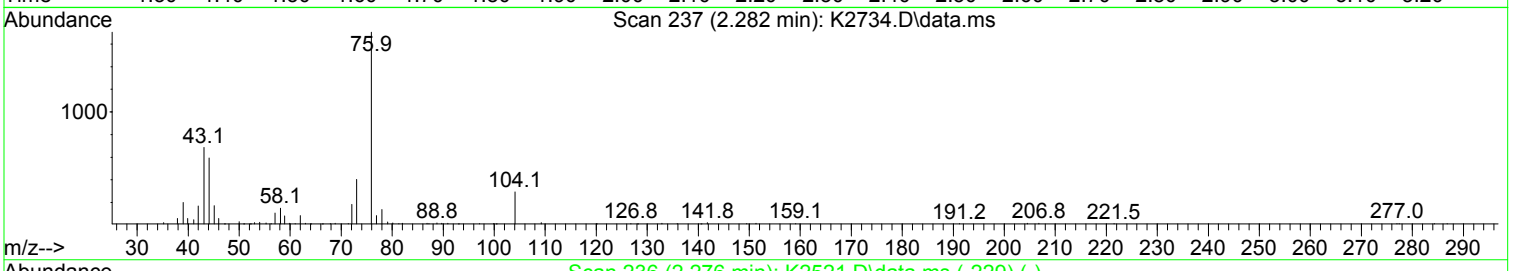
06/10/24

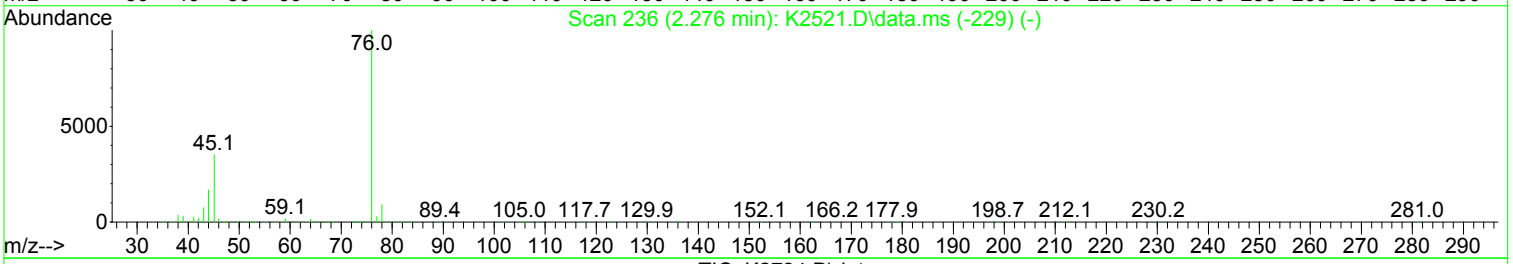
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2734.D
Acq On : 09 Jun 2024 06:49 pm
Operator : K.Ruest
Sample : R2404674-008
Misc : CIVIL 8260 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 10 09:41:54 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2734.D\data.ms

(19) Carbon Disulfide (P)

2.282min (+ 0.006) 0.31 ug/L

response 2867

Ion	Exp%	Act%
76.00	100.00	100.00
77.90	8.90	8.04
77.00	2.80	4.93
0.00	0.00	0.00

Manual Integration:

Before

06/10/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2734.D
Acq On : 09 Jun 2024 06:49 pm
Operator : K.Ruest
Sample : R2404674-008
Misc : CIVIL 8260 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 10 09:41:54 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

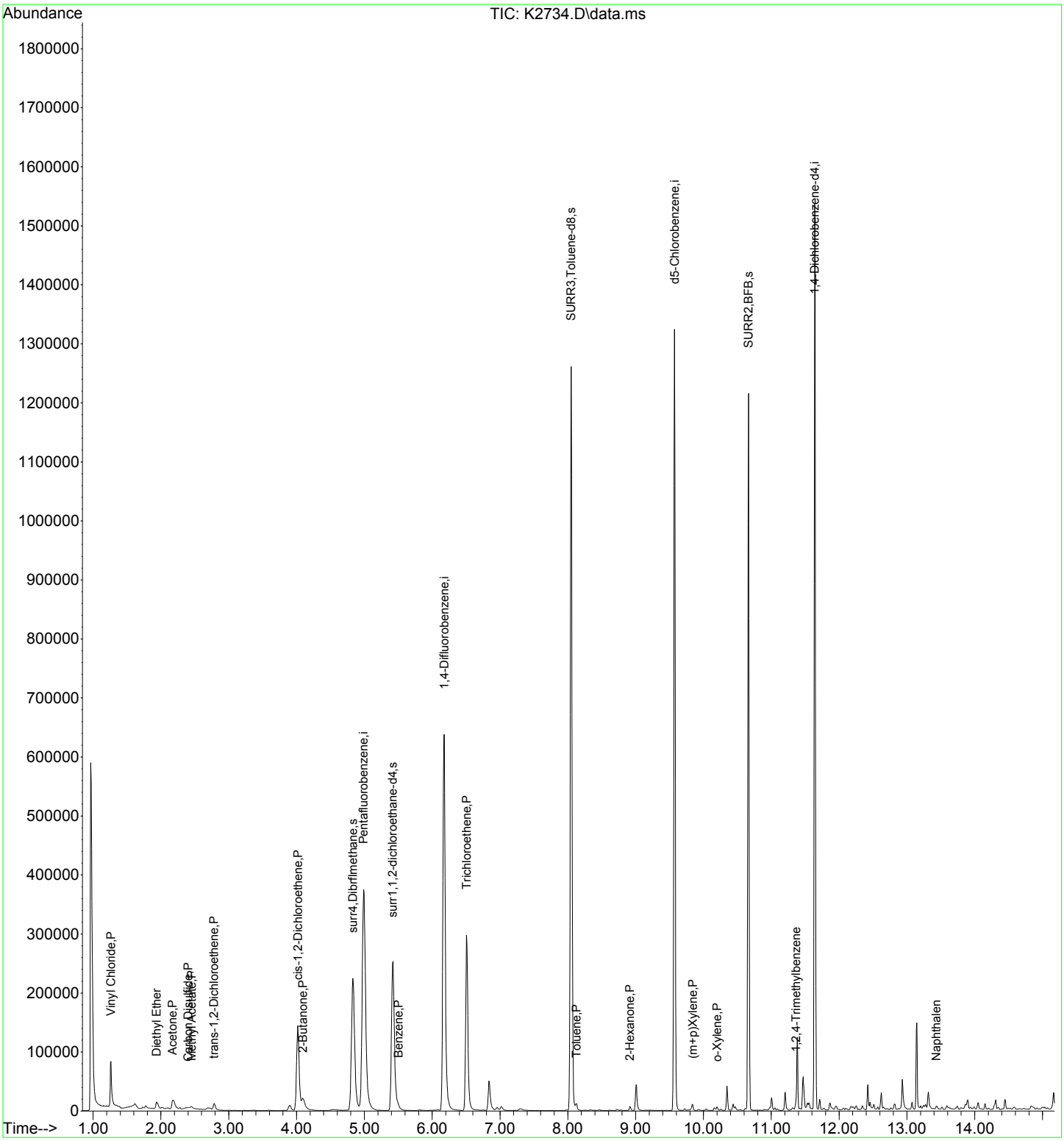
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.989	168	436483	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.178	114	695786	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.573	117	611602	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	11.640	152	294030	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.830	113	228960	48.84	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 97.68%				
48) surr1,1,2-dichloroetha...	5.416	65	284193	50.03	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.06%				
65) SURR3,Toluene-d8	8.049	98	807506	49.71	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.42%				
70) SURR2,BFB	10.665	95	306954	50.27	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.54%				
Target Compounds							Qvalue
4) Chloromethane	1.203	50	433	Below Cal		#	40
5) Vinyl Chloride	1.264	62	66061	15.102	ug/L		96
10) Diethyl Ether	1.934	59	6894	2.239	ug/L		98
16) Acetone	2.172	43	29263	24.968	ug/L		97
19) Carbon Disulfide	2.404	76	28274m	3.062	ug/L		
22) Methyl Acetate	2.453	43	3524	0.993	ug/L		93
27) trans-1,2-Dichloroethene	2.782	96	4359	1.238	ug/L		93
34) cis-1,2-Dichloroethene	4.019	96	89307	22.292	ug/L		89
35) 2-Butanone	4.093	43	35329	21.697	ug/L		98
49) Benzene	5.501	78	6313	0.469	ug/L	#	57
54) Trichloroethene	6.507	130	121225	27.739	ug/L		97
66) Toluene	8.128	91	5381	0.348	ug/L		92
73) 2-Hexanone	8.915	43	3758	1.461	ug/L		92
83) (m+p)Xylene	9.842	106	2882	0.417	ug/L		88
84) o-Xylene	10.201	106	1411	0.205	ug/L	#	82
101) 1,2,4-Trimethylbenzene	11.366	105	5879	0.398	ug/L		96
117) Naphthalen	13.432	128	3251	0.206	ug/L		98

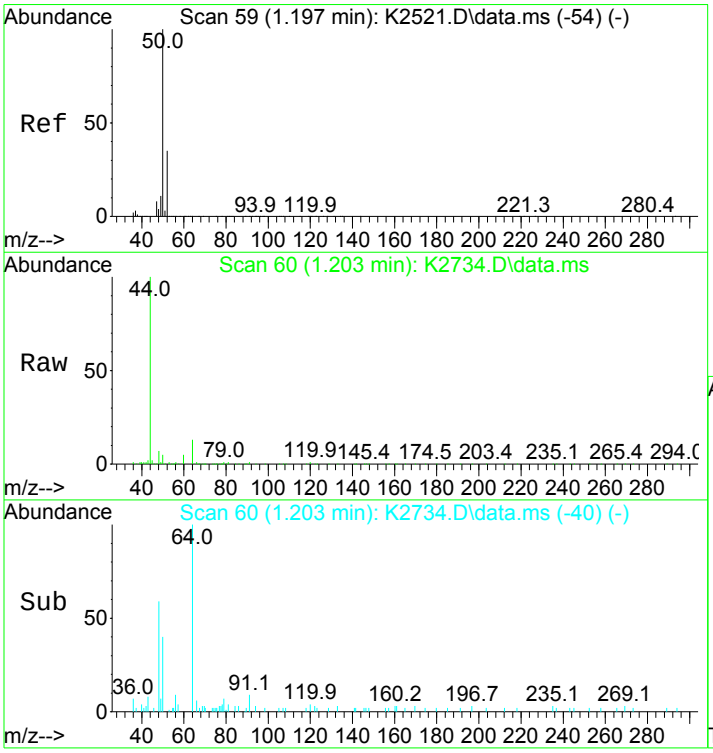
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2734.D
Acq On : 09 Jun 2024 06:49 pm
Operator : K.Ruest
Sample : R2404674-008
Misc : CIVIL 8260 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 10 09:41:54 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

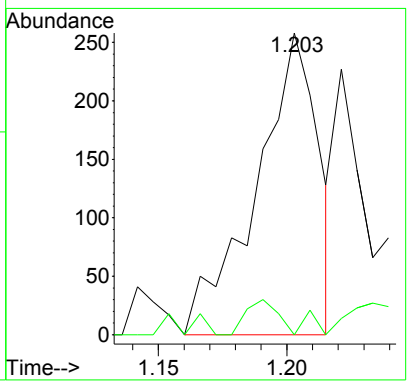


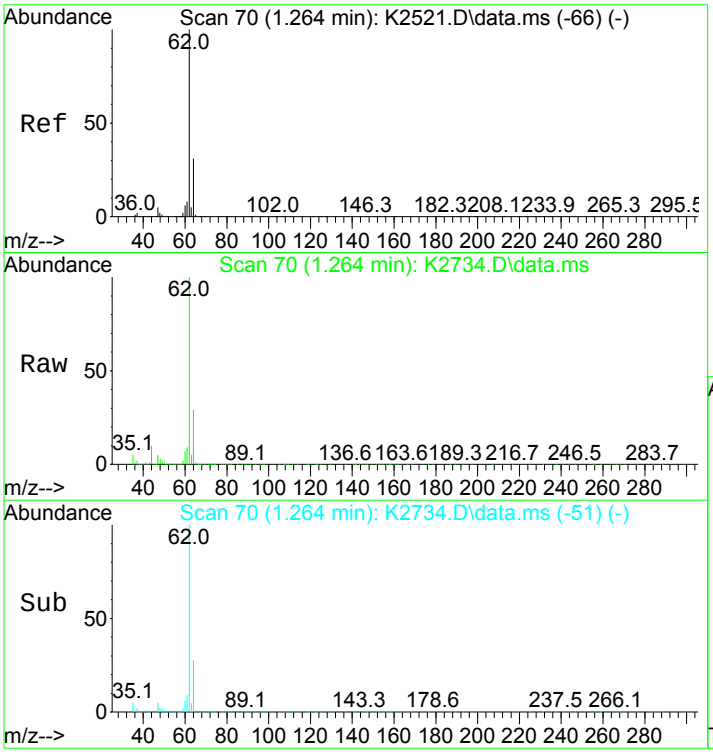


#4
Chloromethane
Concen: Below Cal
RT: 1.203 min Scan# 60
Delta R.T. 0.007 min
Lab File: K2734.D
Acq: 09 Jun 2024 06:49 pm

Tgt Ion: 50 Resp: 433

Ion	Ratio	Lower	Upper
50	100		
52	0.0	14.7	54.7#

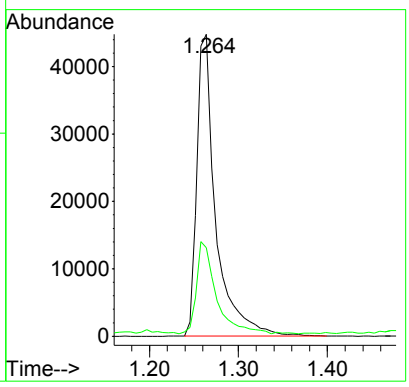


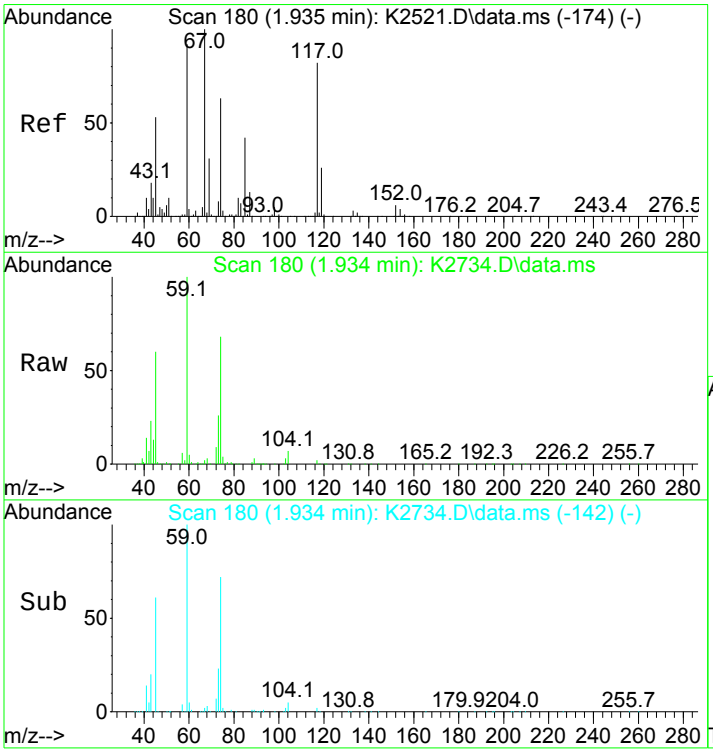


#5
Vinyl Chloride
Concen: 15.10 ug/L
RT: 1.264 min Scan# 70
Delta R.T. -0.000 min
Lab File: K2734.D
Acq: 09 Jun 2024 06:49 pm

Tgt Ion: 62 Resp: 66061

Ion	Ratio	Lower	Upper
62	100		
64	29.3	11.4	51.4

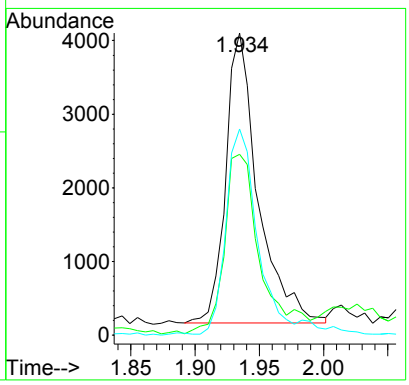


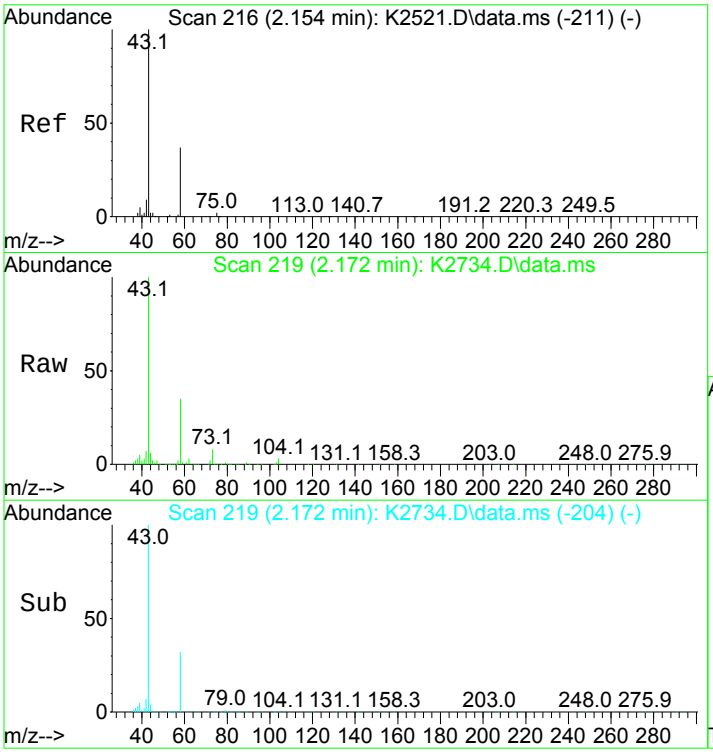


#10
Diethyl Ether
Concen: 2.24 ug/L
RT: 1.934 min Scan# 180
Delta R.T. -0.000 min
Lab File: K2734.D
Acq: 09 Jun 2024 06:49 pm

Tgt Ion: 59 Resp: 6894

Ion	Ratio	Lower	Upper
59	100		
45	59.8	37.0	77.0
74	68.2	47.9	87.9

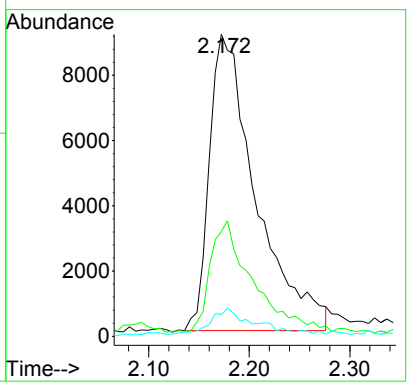


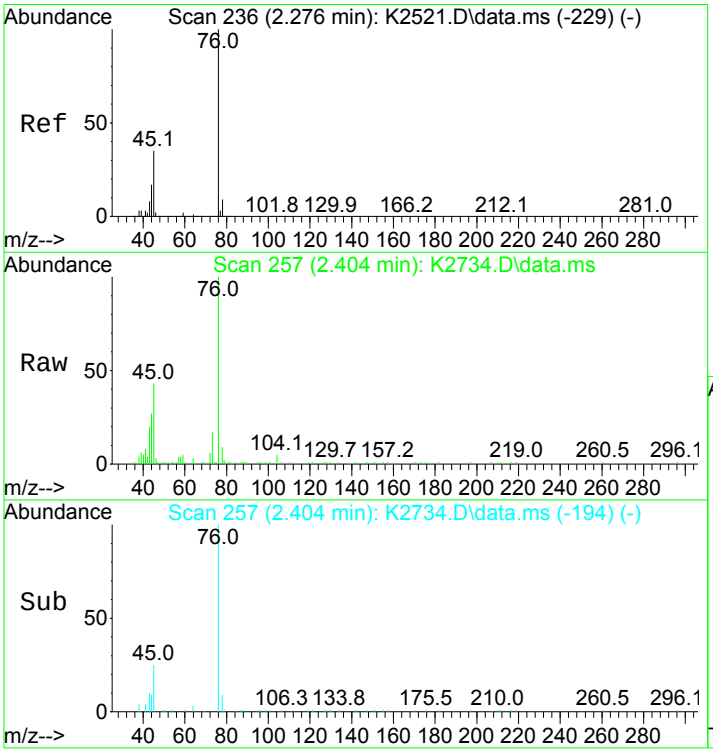


#16
Acetone
Concen: 24.97 ug/L
RT: 2.172 min Scan# 219
Delta R.T. 0.018 min
Lab File: K2734.D
Acq: 09 Jun 2024 06:49 pm

Tgt Ion: 43 Resp: 29263

Ion	Ratio	Lower	Upper
43	100		
58	34.7	16.2	56.2
42	7.2	0.0	28.5

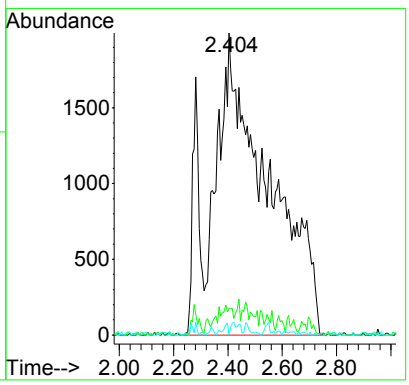


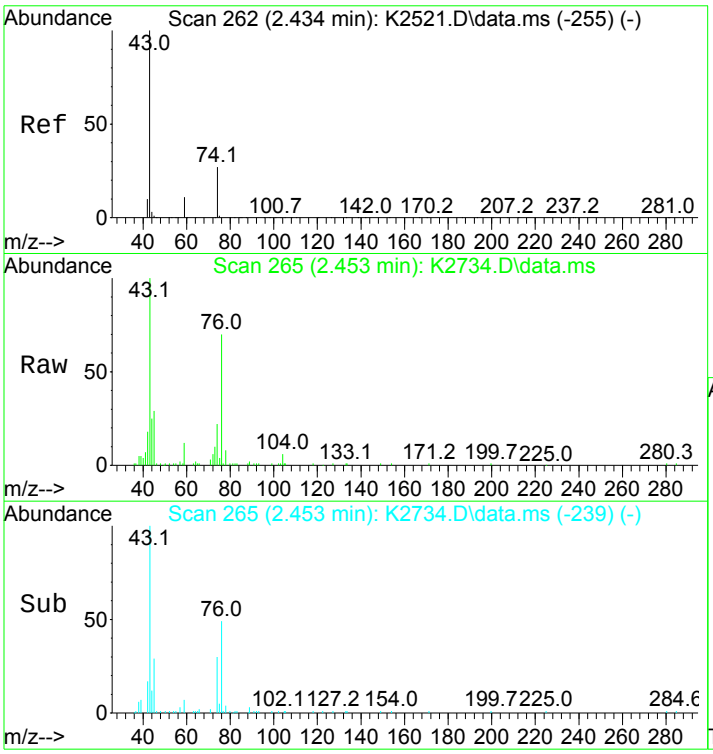


#19
Carbon Disulfide
Concen: 3.06 ug/L m
RT: 2.404 min Scan# 257
Delta R.T. 0.128 min
Lab File: K2734.D
Acq: 09 Jun 2024 06:49 pm

Tgt Ion: 76 Resp: 28274

Ion	Ratio	Lower	Upper
76	100		
78	8.8	0.0	28.9
77	0.0	0.0	22.8

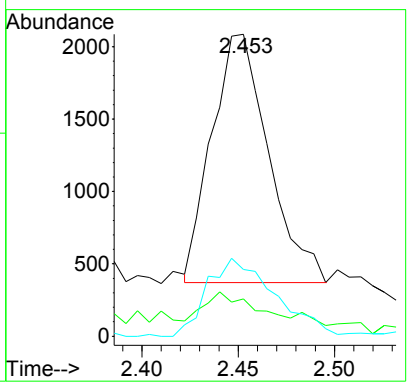


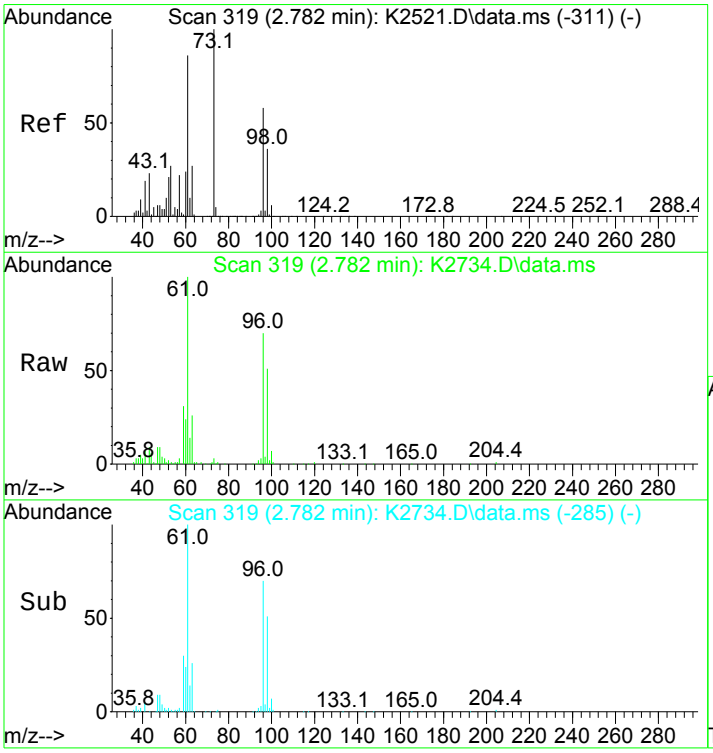


#22
Methyl Acetate
Concen: 0.99 ug/L
RT: 2.453 min Scan# 265
Delta R.T. 0.018 min
Lab File: K2734.D
Acq: 09 Jun 2024 06:49 pm

Tgt Ion: 43 Resp: 3524

Ion	Ratio	Lower	Upper
43	100		
59	12.4	0.0	31.1
74	22.1	6.8	46.8

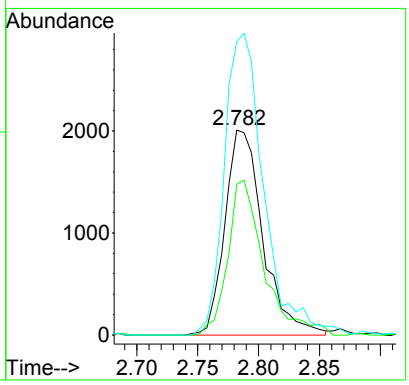


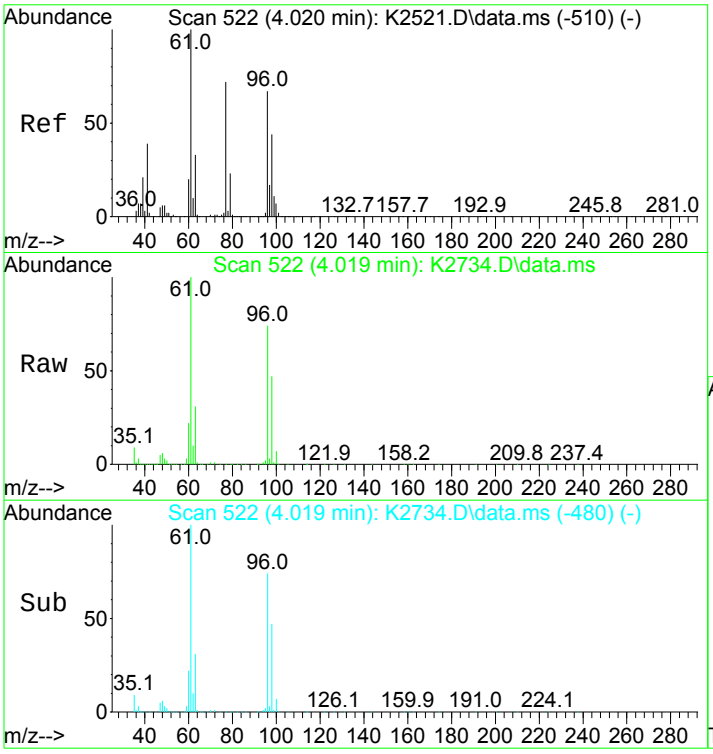


#27
trans-1,2-Dichloroethene
Concen: 1.24 ug/L
RT: 2.782 min Scan# 319
Delta R.T. -0.000 min
Lab File: K2734.D
Acq: 09 Jun 2024 06:49 pm

Tgt Ion: 96 Resp: 4359

Ion	Ratio	Lower	Upper
96	100		
98	73.4	42.5	82.5
61	143.1	128.4	168.4

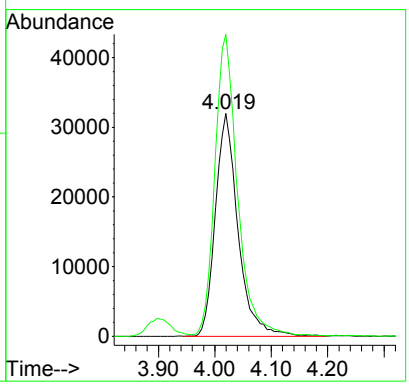


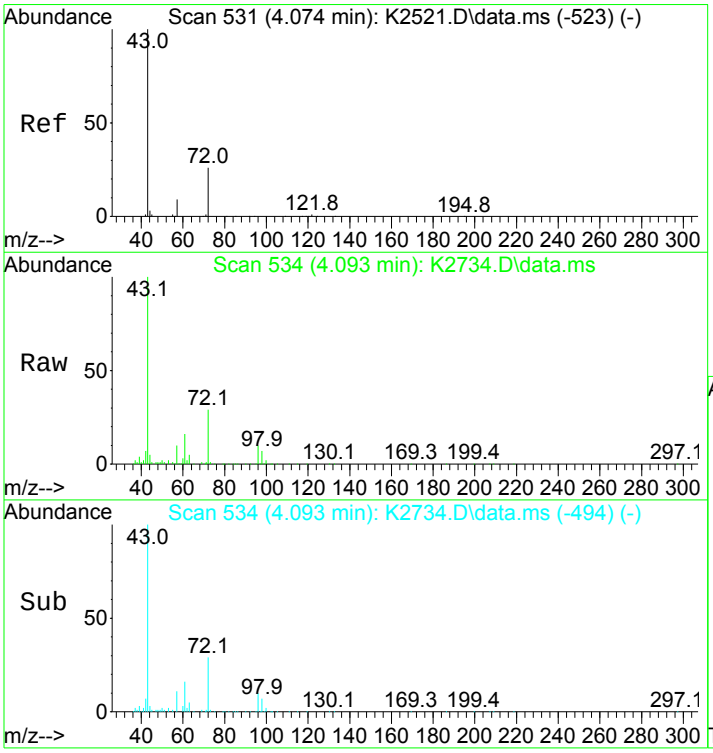


#34
cis-1,2-Dichloroethene
Concen: 22.29 ug/L
RT: 4.019 min Scan# 522
Delta R.T. -0.000 min
Lab File: K2734.D
Acq: 09 Jun 2024 06:49 pm

Tgt Ion: 96 Resp: 89307

Ion	Ratio	Lower	Upper
96	100		
61	135.5	129.5	169.5

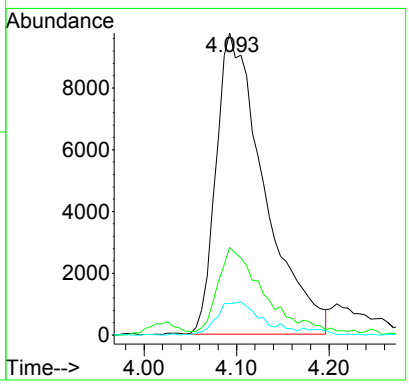


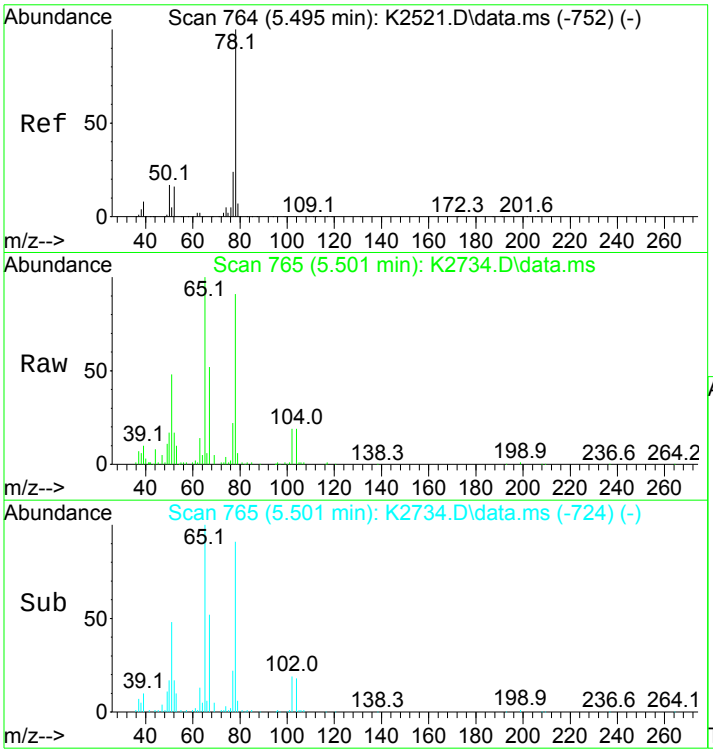


#35
2-Butanone
Concen: 21.70 ug/L
RT: 4.093 min Scan# 534
Delta R.T. 0.018 min
Lab File: K2734.D
Acq: 09 Jun 2024 06:49 pm

Tgt Ion: 43 Resp: 35329

Ion	Ratio	Lower	Upper
43	100		
72	29.0	8.0	48.0
57	10.4	0.0	30.7

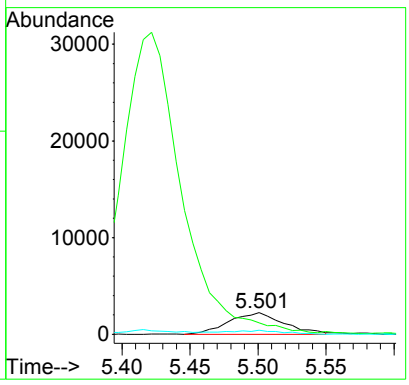


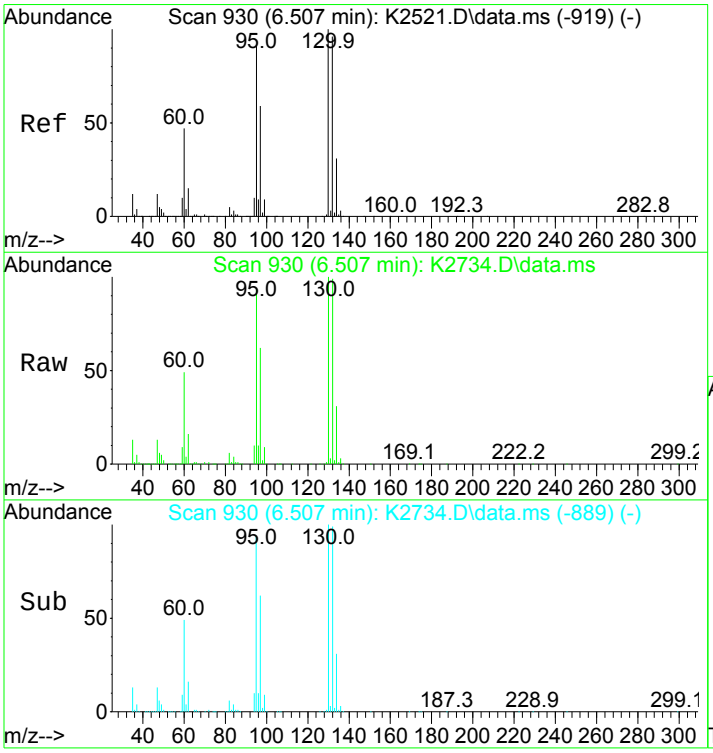


#49
Benzene
Concen: 0.47 ug/L
RT: 5.501 min Scan# 765
Delta R.T. 0.006 min
Lab File: K2734.D
Acq: 09 Jun 2024 06:49 pm

Tgt Ion: 78 Resp: 6313

Ion	Ratio	Lower	Upper
78	100		
51	52.4	0.0	38.8#
52	18.8	0.0	36.4

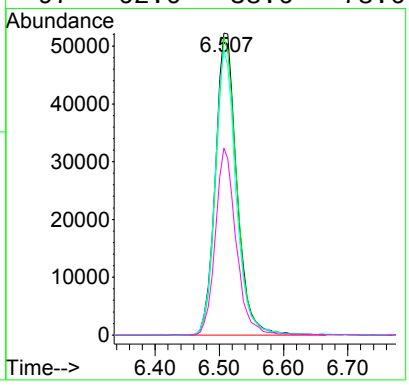


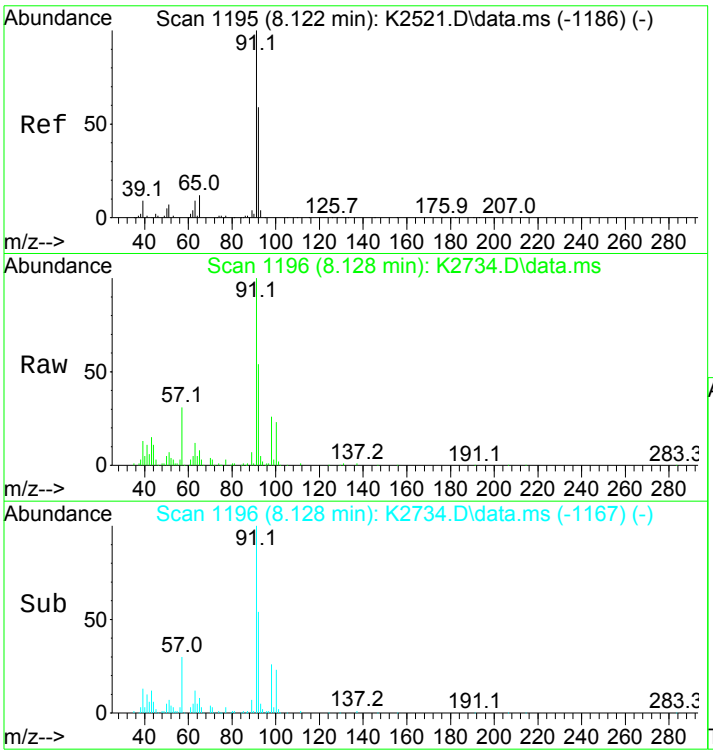


#54
Trichloroethene
Concen: 27.74 ug/L
RT: 6.507 min Scan# 930
Delta R.T. -0.000 min
Lab File: K2734.D
Acq: 09 Jun 2024 06:49 pm

Tgt Ion:130 Resp: 121225

Ion	Ratio	Lower	Upper
130	100		
132	98.7	76.3	116.3
95	94.4	71.1	111.1
97	62.0	38.6	78.6

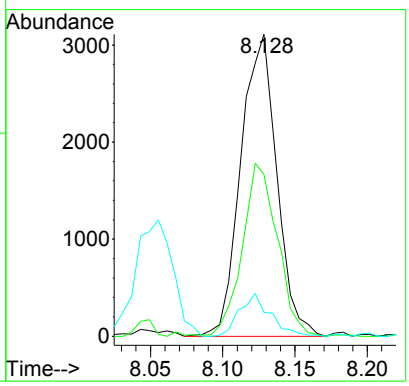


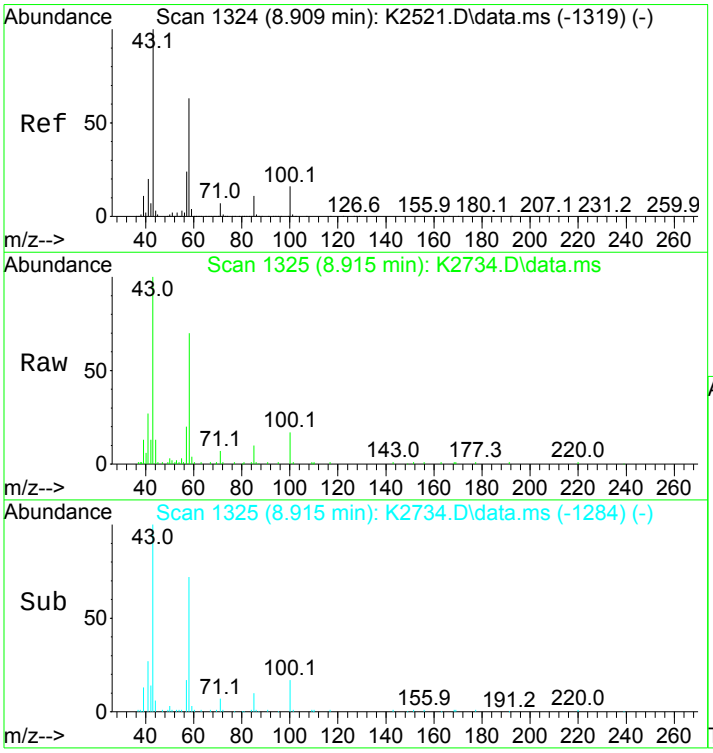


#66
Toluene
Concen: 0.35 ug/L
RT: 8.128 min Scan# 1196
Delta R.T. 0.006 min
Lab File: K2734.D
Acq: 09 Jun 2024 06:49 pm

Tgt Ion: 91 Resp: 5381

Ion	Ratio	Lower	Upper
91	100		
92	53.6	39.0	79.0
65	8.0	0.0	32.6

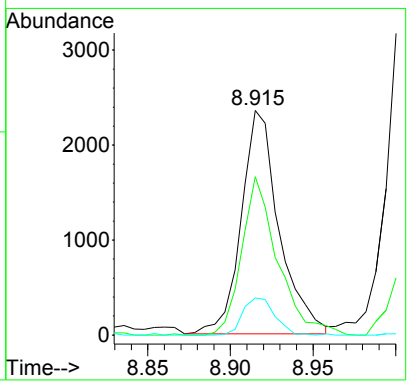


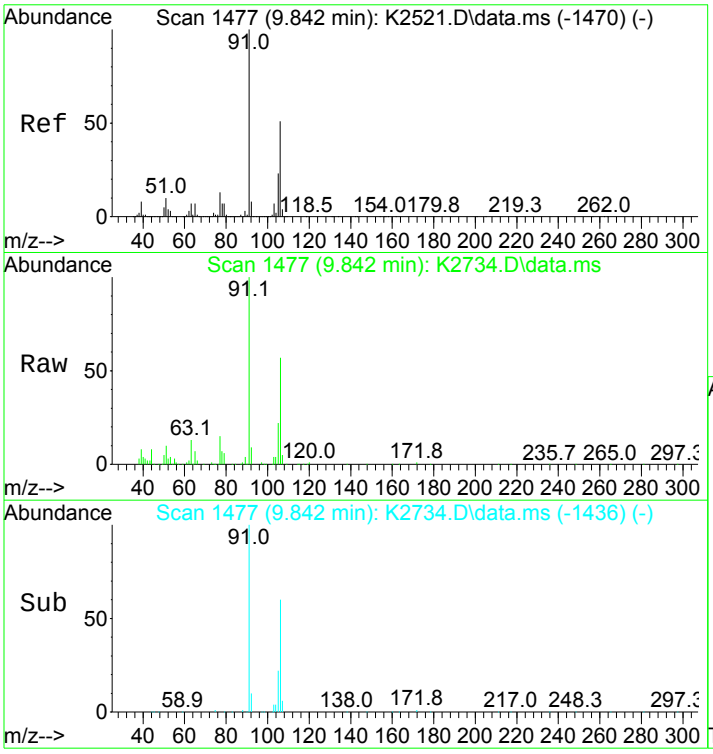


#73
2-Hexanone
Concen: 1.46 ug/L
RT: 8.915 min Scan# 1325
Delta R.T. 0.006 min
Lab File: K2734.D
Acq: 09 Jun 2024 06:49 pm

Tgt Ion: 43 Resp: 3758

Ion	Ratio	Lower	Upper
43	100		
58	70.5	43.2	83.2
100	16.5	0.0	35.7

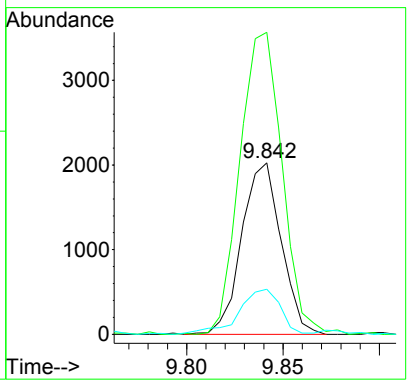


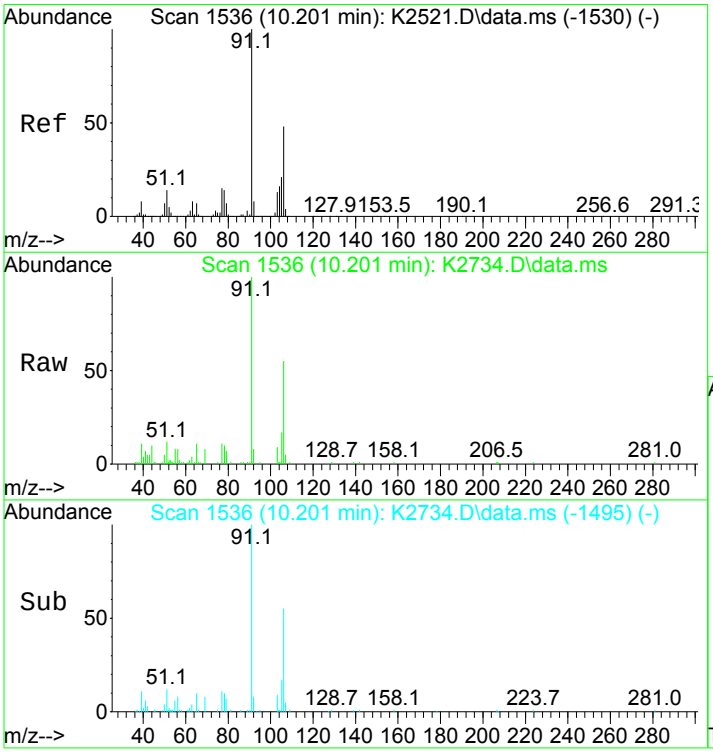


#83
(m+p)Xylene
Concen: 0.42 ug/L
RT: 9.842 min Scan# 1477
Delta R.T. -0.000 min
Lab File: K2734.D
Acq: 09 Jun 2024 06:49 pm

Tgt Ion:106 Resp: 2882

Ion	Ratio	Lower	Upper
106	100		
91	176.1	175.3	215.3
77	26.2	4.9	44.9

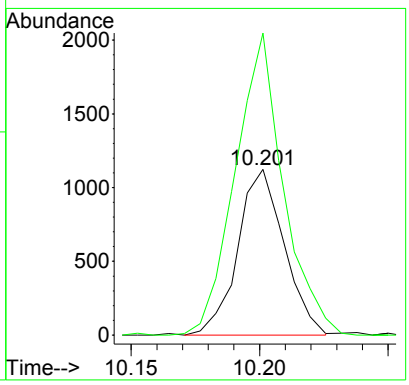


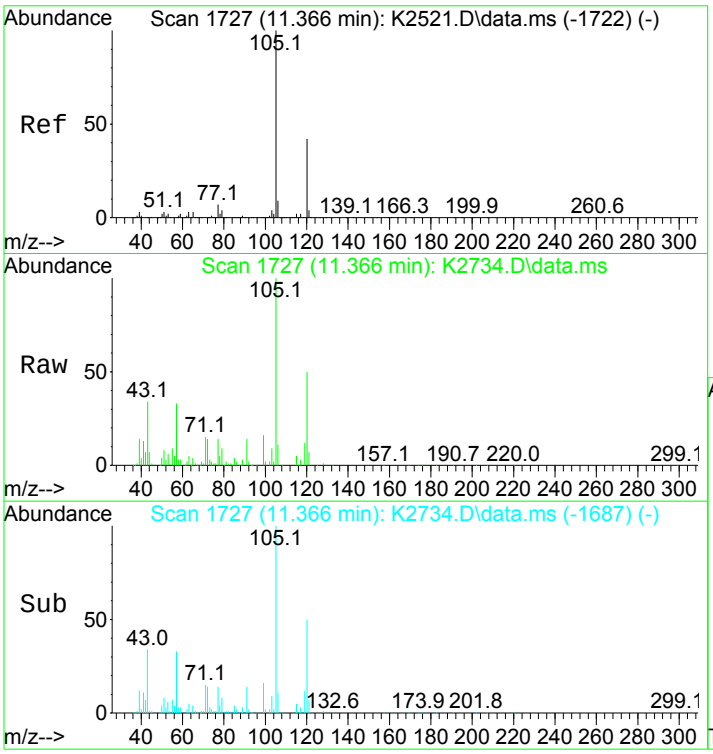


#84
o-Xylene
Concen: 0.21 ug/L
RT: 10.201 min Scan# 1536
Delta R.T. -0.000 min
Lab File: K2734.D
Acq: 09 Jun 2024 06:49 pm

Tgt Ion:106 Resp: 1411

Ion	Ratio	Lower	Upper
106	100		
91	182.4	189.7	229.7#

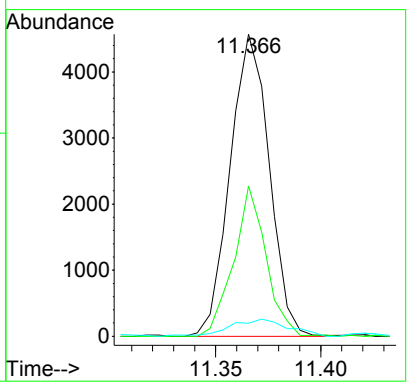


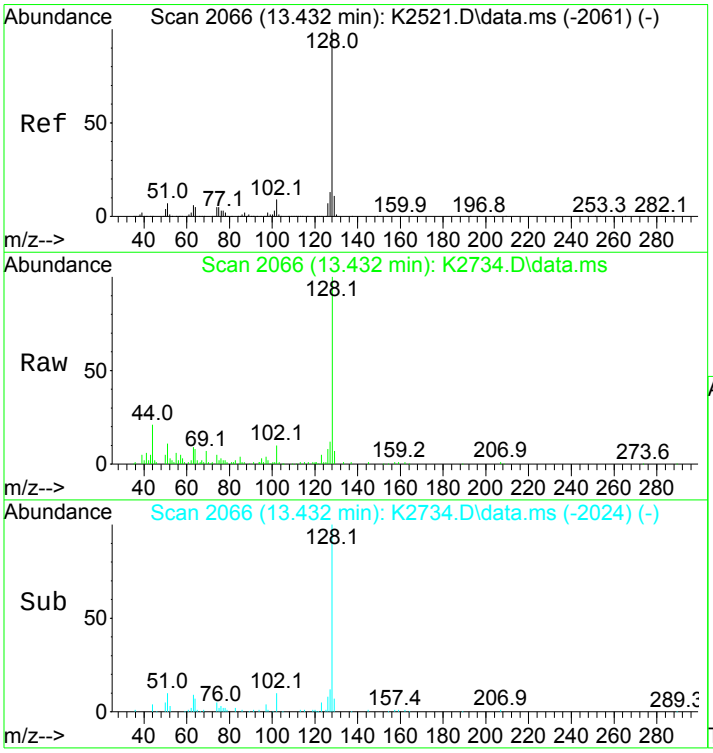


#101
1,2,4-Trimethylbenzene
Concen: 0.40 ug/L
RT: 11.366 min Scan# 1727
Delta R.T. -0.000 min
Lab File: K2734.D
Acq: 09 Jun 2024 06:49 pm

Tgt Ion:105 Resp: 5879

Ion	Ratio	Lower	Upper
105	100		
120	49.8	26.9	66.9
65	4.3	0.0	24.9

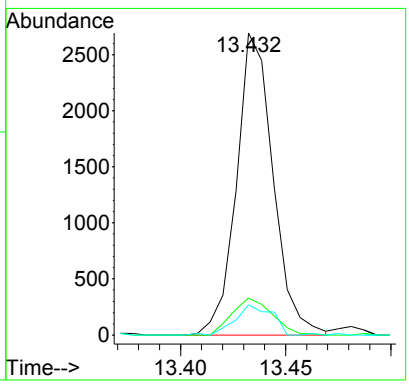




#117
Naphthalen
Concen: 0.21 ug/L
RT: 13.432 min Scan# 2066
Delta R.T. -0.000 min
Lab File: K2734.D
Acq: 09 Jun 2024 06:49 pm

Tgt Ion:128 Resp: 3251

Ion	Ratio	Lower	Upper
128	100		
127	12.3	0.0	32.8
102	10.1	0.0	28.8



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2731.D
Acq On : 09 Jun 2024 05:40 pm
Operator : K.Ruest
Sample : R2404674-009
Misc : CIVIL 8260 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 10 09:41:04 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

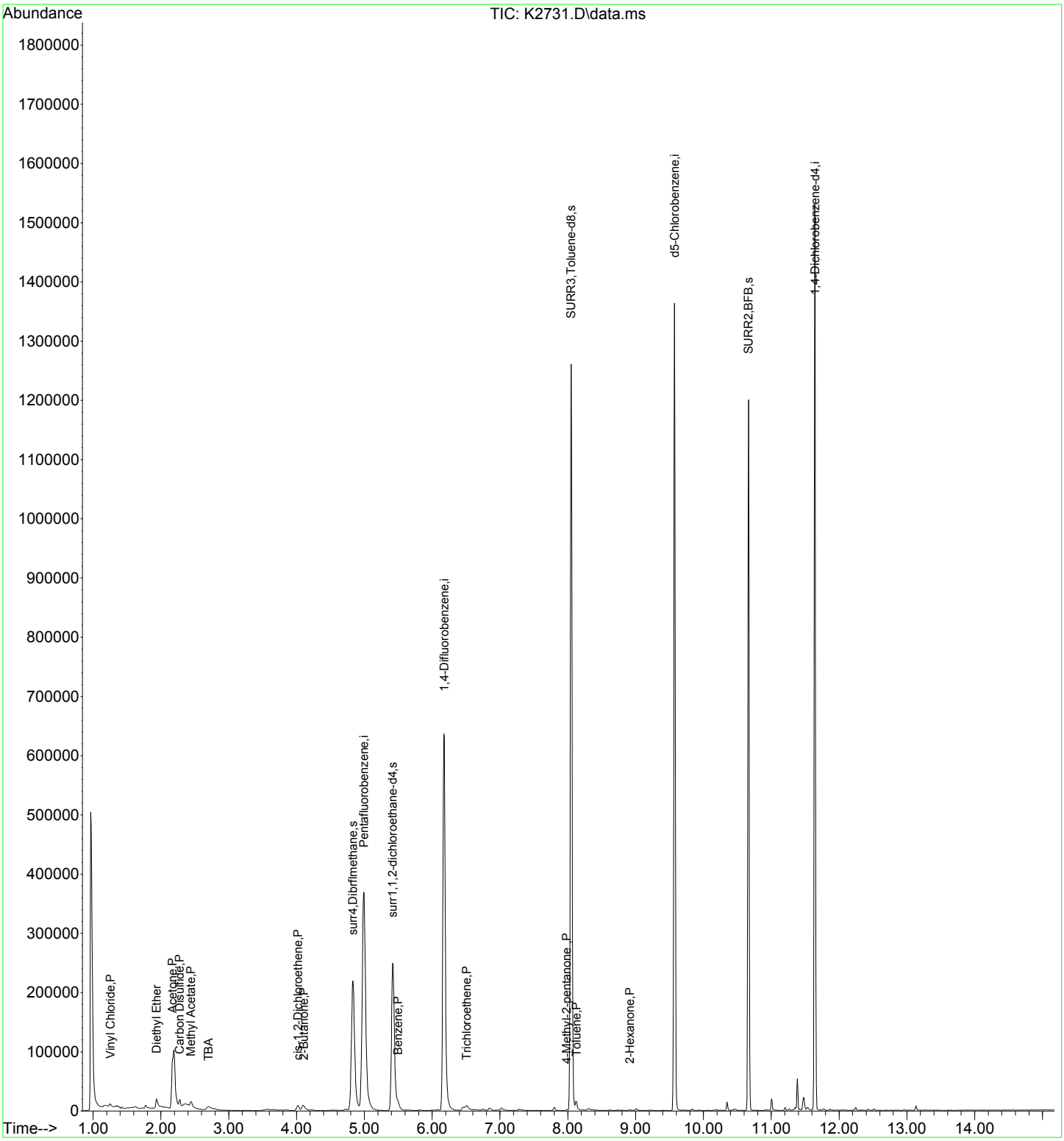
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.995	168	441335	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.178	114	694645	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.573	117	622919	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	11.646	152	299408	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.830	113	223899	47.84	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 95.68%			
48) surr1,1,2-dichloroetha...	5.416	65	285459	50.33	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.66%			
65) SURR3,Toluene-d8	8.049	98	810838	49.99	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.98%			
70) SURR2,BFB	10.665	95	307547	50.45	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.90%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.258	62	2147	0.485	ug/L #	13
10) Diethyl Ether	1.934	59	8989	2.887	ug/L	88
16) Acetone	2.172	43	142965	122.669	ug/L	97
19) Carbon Disulfide	2.276	76	18774	2.011	ug/L	96
22) Methyl Acetate	2.440	43	11923	3.323	ug/L	88
24) TBA	2.703	59	17011	32.689	ug/L	91
34) cis-1,2-Dichloroethene	4.019	96	5542	1.368	ug/L #	83
35) 2-Butanone	4.105	43	18587	11.290	ug/L	95
49) Benzene	5.495	78	10579	0.788	ug/L #	66
54) Trichloroethene	6.507	130	1513	0.347	ug/L	86
64) 4-Methyl-2-pentanone	7.982	43	1058	0.291	ug/L	88
66) Toluene	8.128	91	9354	0.606	ug/L	90
73) 2-Hexanone	8.915	43	1089	0.416	ug/L	82

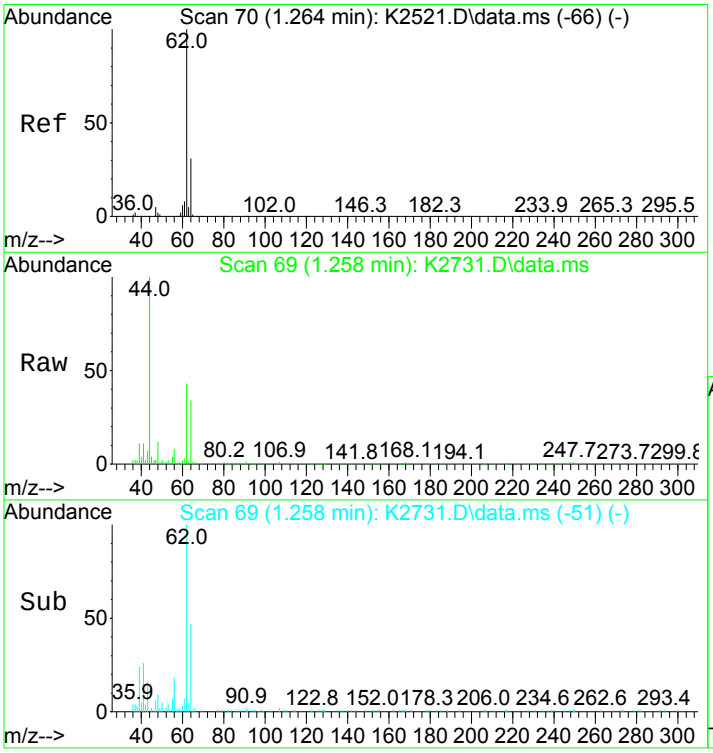
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2731.D
Acq On : 09 Jun 2024 05:40 pm
Operator : K.Ruest
Sample : R2404674-009
Misc : CIVIL 8260 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 10 09:41:04 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

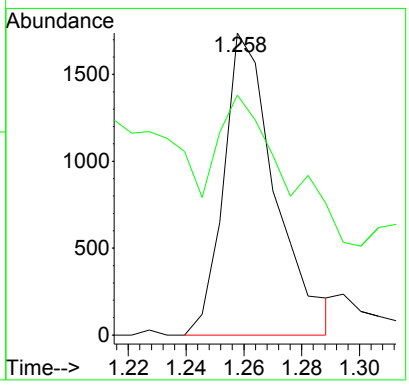


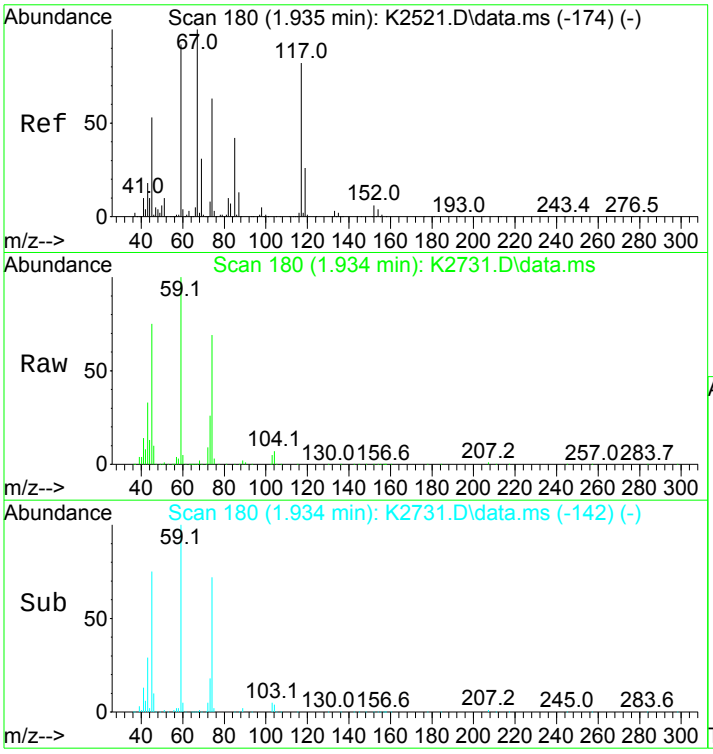


#5
Vinyl Chloride
Concen: 0.49 ug/L
RT: 1.258 min Scan# 69
Delta R.T. -0.006 min
Lab File: K2731.D
Acq: 09 Jun 2024 05:40 pm

Tgt Ion: 62 Resp: 2147

Ion	Ratio	Lower	Upper
62	100		
64	79.5	11.4	51.4#

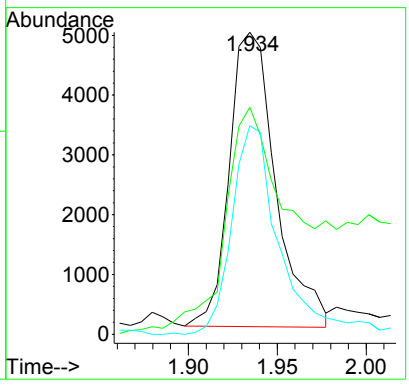


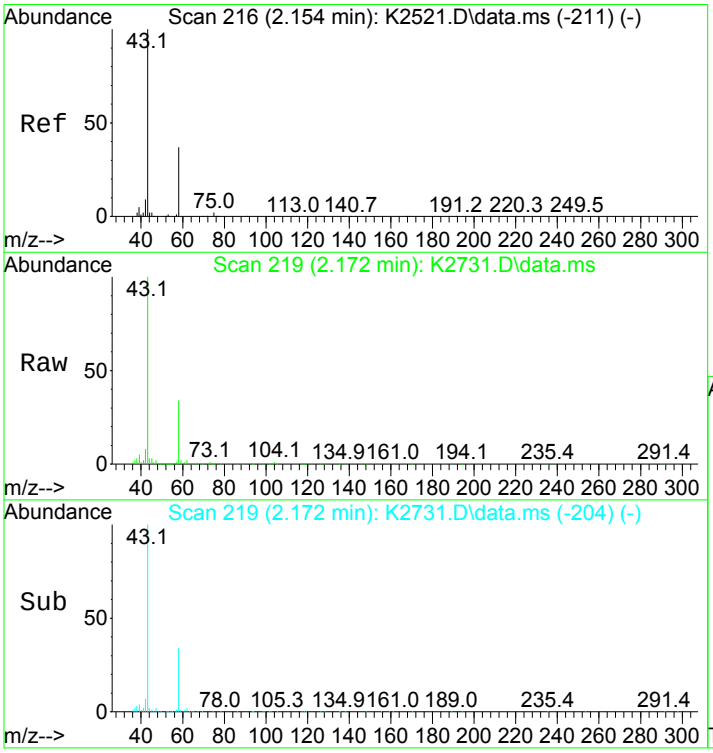


#10
Diethyl Ether
Concen: 2.89 ug/L
RT: 1.934 min Scan# 180
Delta R.T. -0.000 min
Lab File: K2731.D
Acq: 09 Jun 2024 05:40 pm

Tgt Ion: 59 Resp: 8989

Ion	Ratio	Lower	Upper
59	100		
45	75.2	37.0	77.0
74	69.1	47.9	87.9

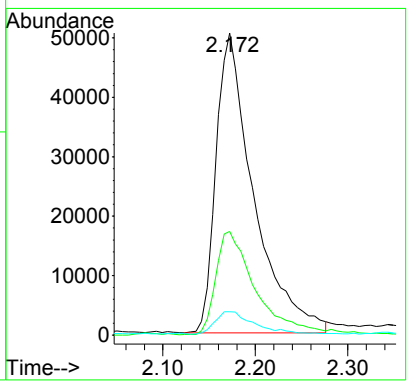


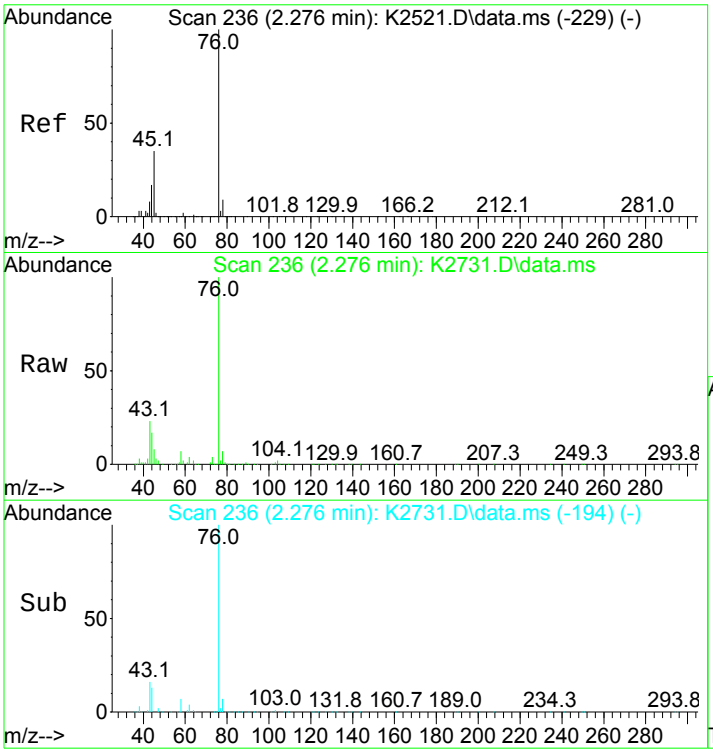


#16
Acetone
Concen: 122.67 ug/L
RT: 2.172 min Scan# 219
Delta R.T. 0.018 min
Lab File: K2731.D
Acq: 09 Jun 2024 05:40 pm

Tgt Ion: 43 Resp: 142965

Ion	Ratio	Lower	Upper
43	100		
58	34.4	16.2	56.2
42	7.7	0.0	28.5

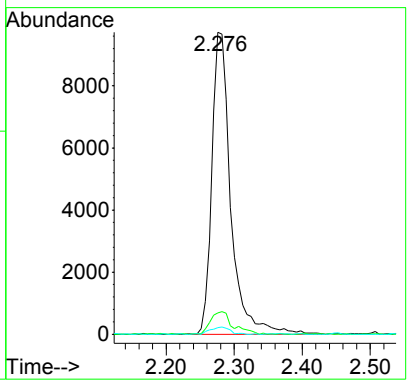


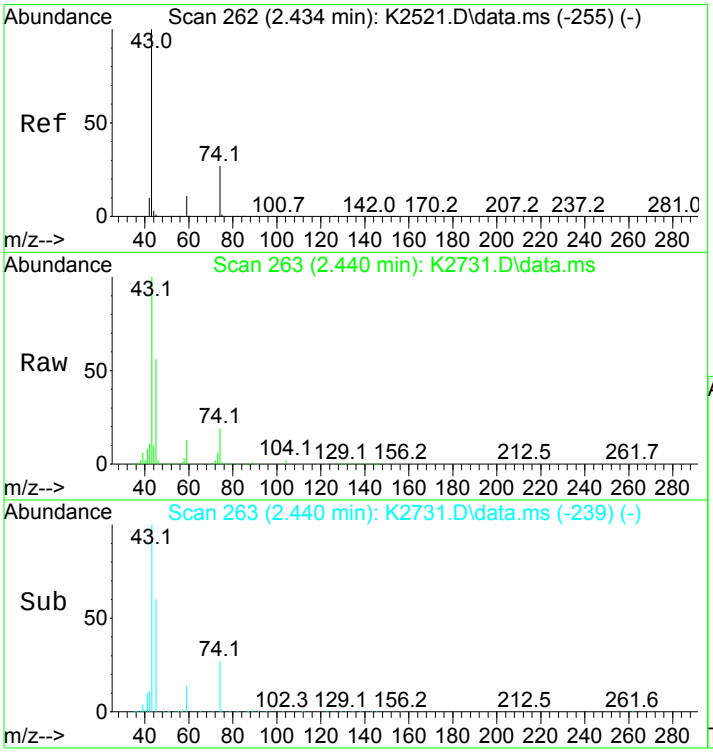


#19
Carbon Disulfide
Concen: 2.01 ug/L
RT: 2.276 min Scan# 236
Delta R.T. -0.000 min
Lab File: K2731.D
Acq: 09 Jun 2024 05:40 pm

Tgt Ion: 76 Resp: 18774

Ion	Ratio	Lower	Upper
76	100		
78	7.1	0.0	28.9
77	2.2	0.0	22.8

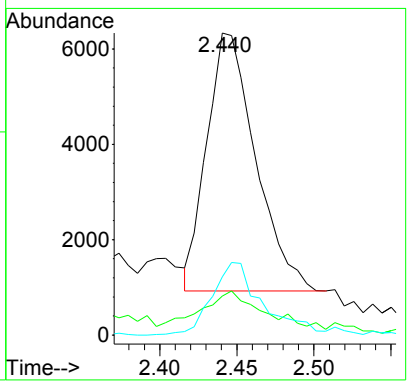


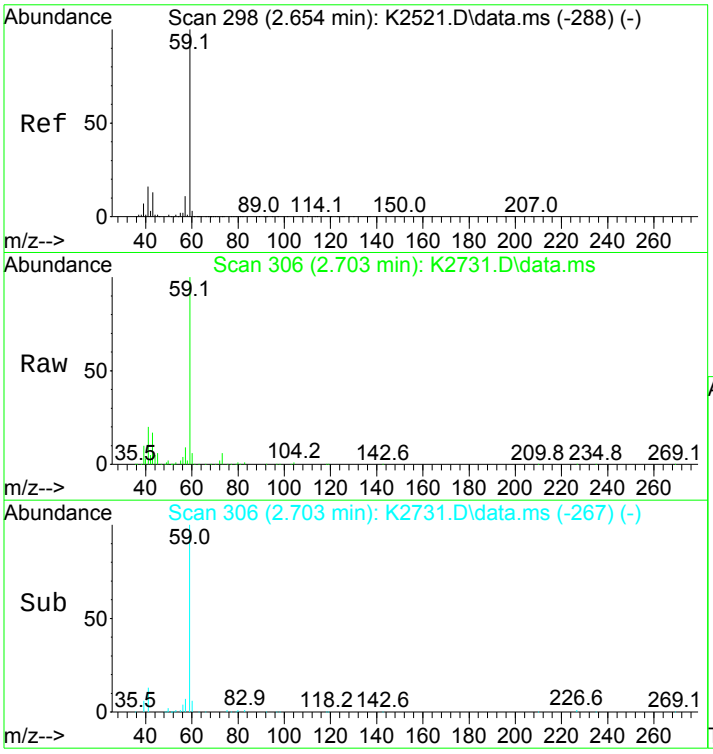


#22
Methyl Acetate
Concen: 3.32 ug/L
RT: 2.440 min Scan# 263
Delta R.T. 0.006 min
Lab File: K2731.D
Acq: 09 Jun 2024 05:40 pm

Tgt Ion: 43 Resp: 11923

Ion	Ratio	Lower	Upper
43	100		
59	12.9	0.0	31.1
74	19.2	6.8	46.8

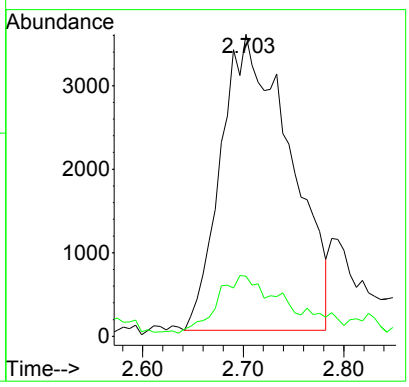


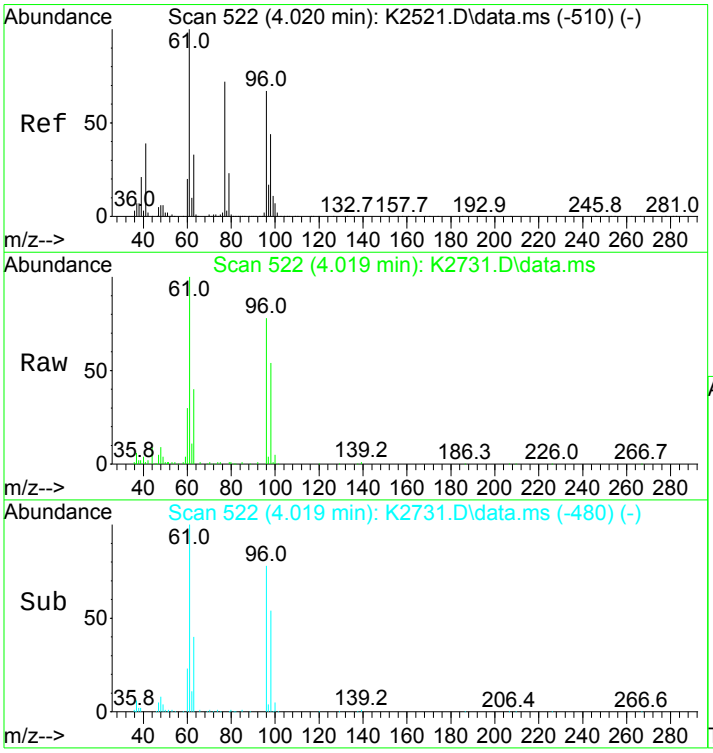


#24
TBA
Concen: 32.69 ug/L
RT: 2.703 min Scan# 306
Delta R.T. 0.049 min
Lab File: K2731.D
Acq: 09 Jun 2024 05:40 pm

Tgt Ion: 59 Resp: 17011

Ion	Ratio	Lower	Upper
59	100		
41	19.9	0.0	36.1

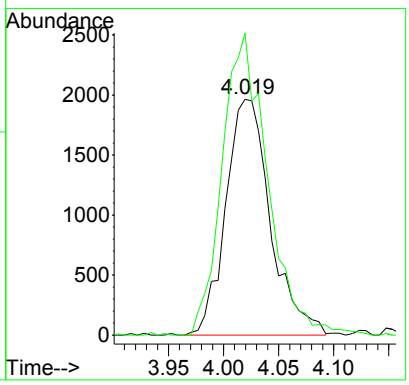


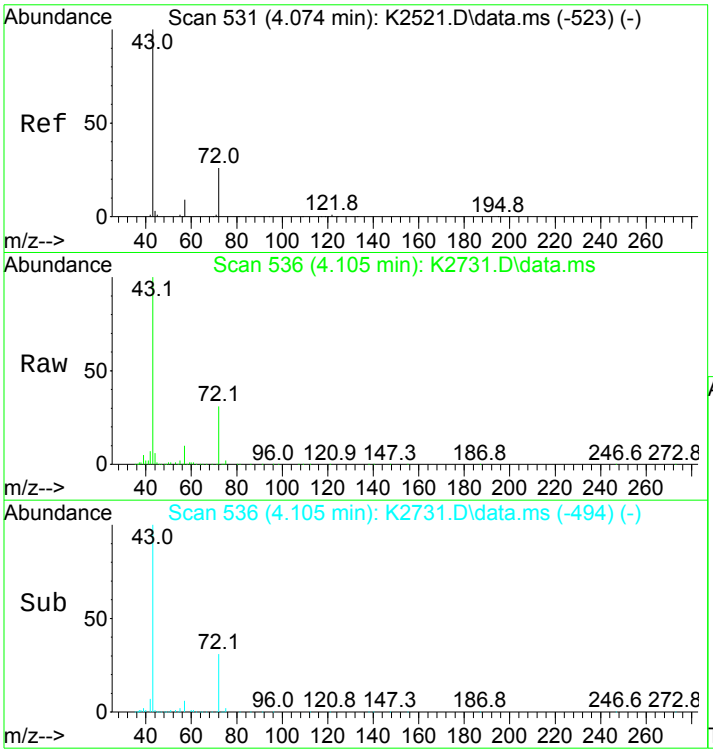


#34
cis-1,2-Dichloroethene
Concen: 1.37 ug/L
RT: 4.019 min Scan# 522
Delta R.T. -0.000 min
Lab File: K2731.D
Acq: 09 Jun 2024 05:40 pm

Tgt Ion: 96 Resp: 5542

Ion	Ratio	Lower	Upper
96	100		
61	128.2	129.5	169.5#

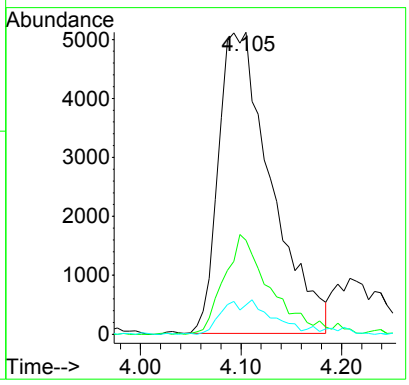


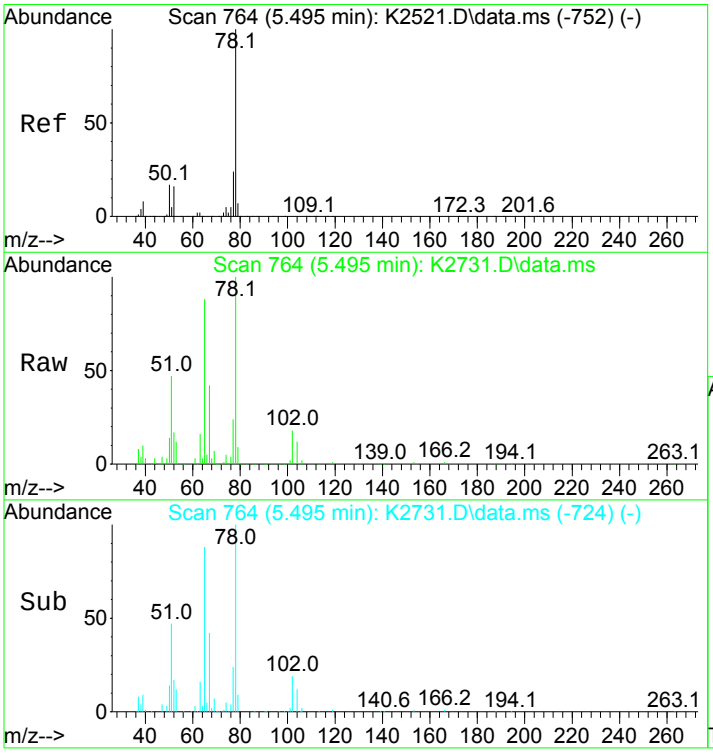


#35
2-Butanone
Concen: 11.29 ug/L
RT: 4.105 min Scan# 536
Delta R.T. 0.030 min
Lab File: K2731.D
Acq: 09 Jun 2024 05:40 pm

Tgt Ion: 43 Resp: 18587

Ion	Ratio	Lower	Upper
43	100		
72	31.1	8.0	48.0
57	9.7	0.0	30.7

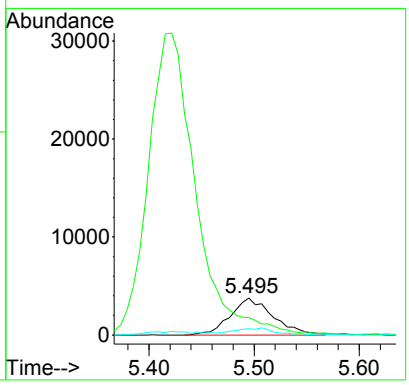


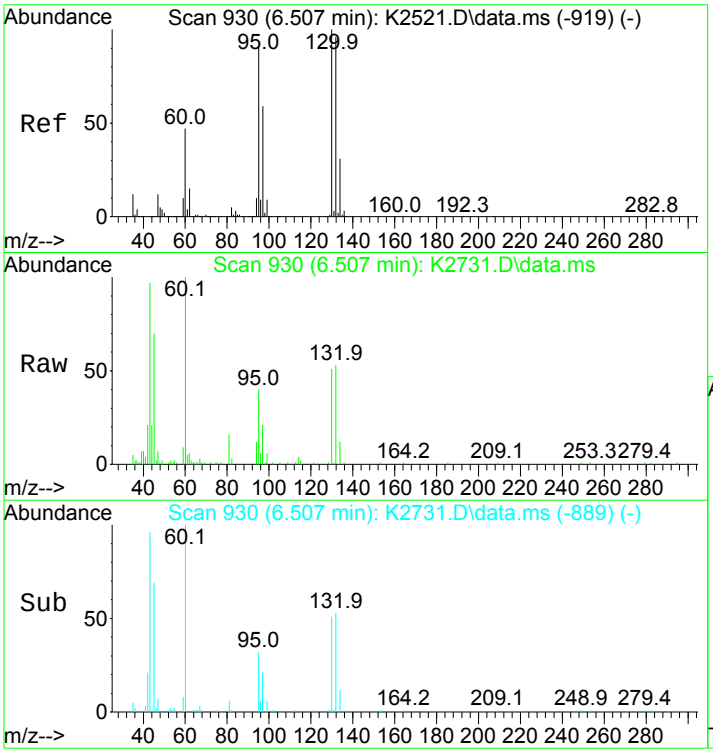


#49
Benzene
Concen: 0.79 ug/L
RT: 5.495 min Scan# 764
Delta R.T. -0.000 min
Lab File: K2731.D
Acq: 09 Jun 2024 05:40 pm

Tgt Ion: 78 Resp: 10579

Ion	Ratio	Lower	Upper
78	100		
51	47.1	0.0	38.8#
52	17.1	0.0	36.4

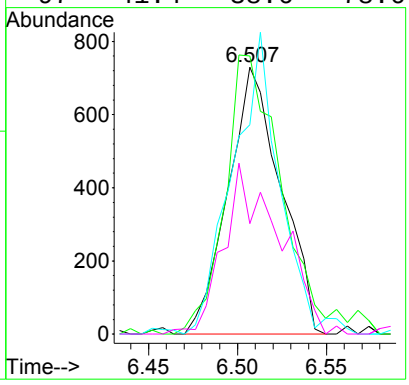


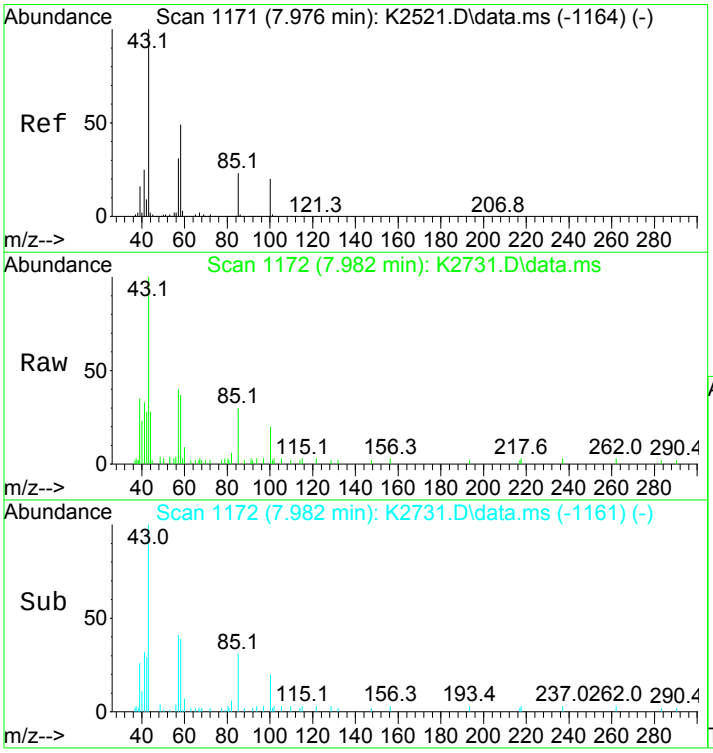


#54
Trichloroethene
Concen: 0.35 ug/L
RT: 6.507 min Scan# 930
Delta R.T. -0.000 min
Lab File: K2731.D
Acq: 09 Jun 2024 05:40 pm

Tgt Ion:130 Resp: 1513

Ion	Ratio	Lower	Upper
130	100		
132	104.1	76.3	116.3
95	78.4	71.1	111.1
97	41.4	38.6	78.6

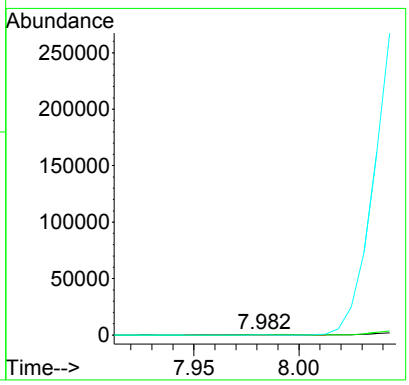


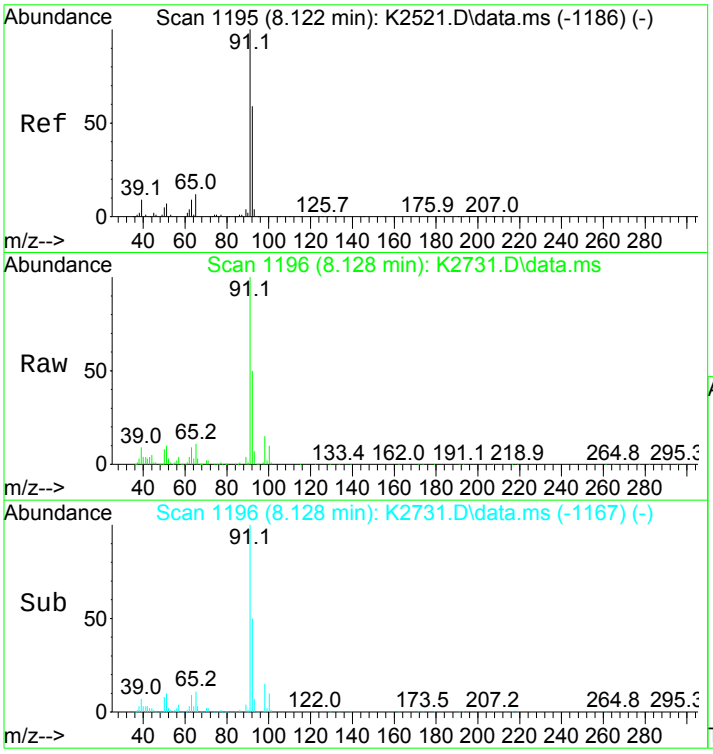


#64
4-Methyl-2-pentanone
Concen: 0.29 ug/L
RT: 7.982 min Scan# 1172
Delta R.T. 0.006 min
Lab File: K2731.D
Acq: 09 Jun 2024 05:40 pm

Tgt Ion: 43 Resp: 1058

Ion	Ratio	Lower	Upper
43	100		
58	37.4	28.5	68.5
100	19.7	0.2	40.2

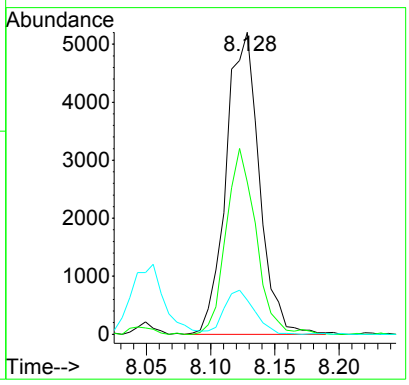


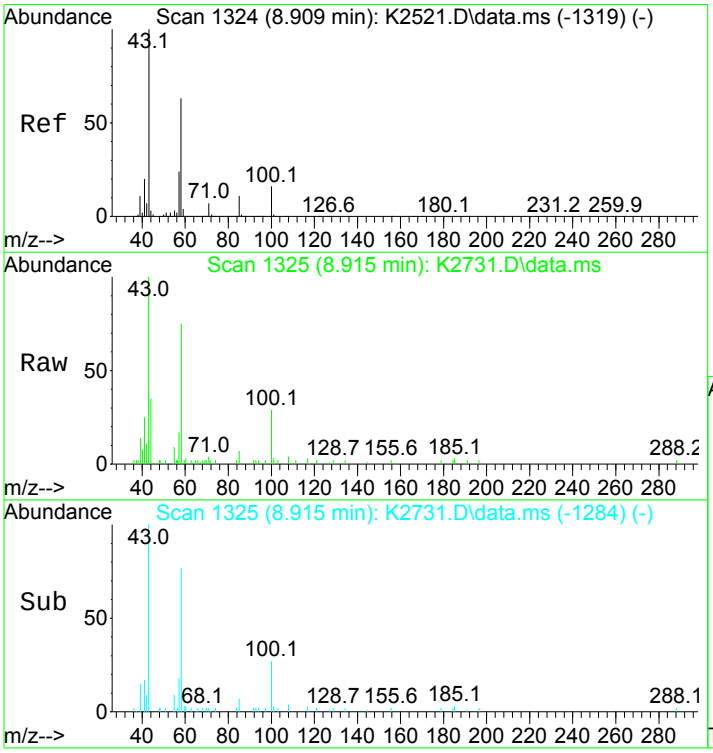


#66
Toluene
Concen: 0.61 ug/L
RT: 8.128 min Scan# 1196
Delta R.T. 0.006 min
Lab File: K2731.D
Acq: 09 Jun 2024 05:40 pm

Tgt Ion: 91 Resp: 9354

Ion	Ratio	Lower	Upper
91	100		
92	50.4	39.0	79.0
65	11.3	0.0	32.6

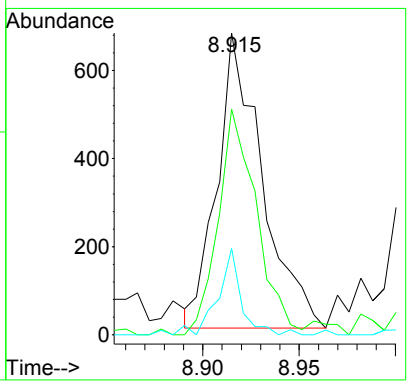




#73
2-Hexanone
Concen: 0.42 ug/L
RT: 8.915 min Scan# 1325
Delta R.T. 0.006 min
Lab File: K2731.D
Acq: 09 Jun 2024 05:40 pm

Tgt Ion: 43 Resp: 1089

Ion	Ratio	Lower	Upper
43	100		
58	74.7	43.2	83.2
100	28.6	0.0	35.7



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2732.D
Acq On : 09 Jun 2024 06:03 pm
Operator : K.Ruest
Sample : R2404674-010
Misc : CIVIL 8260 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 10 09:41:24 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

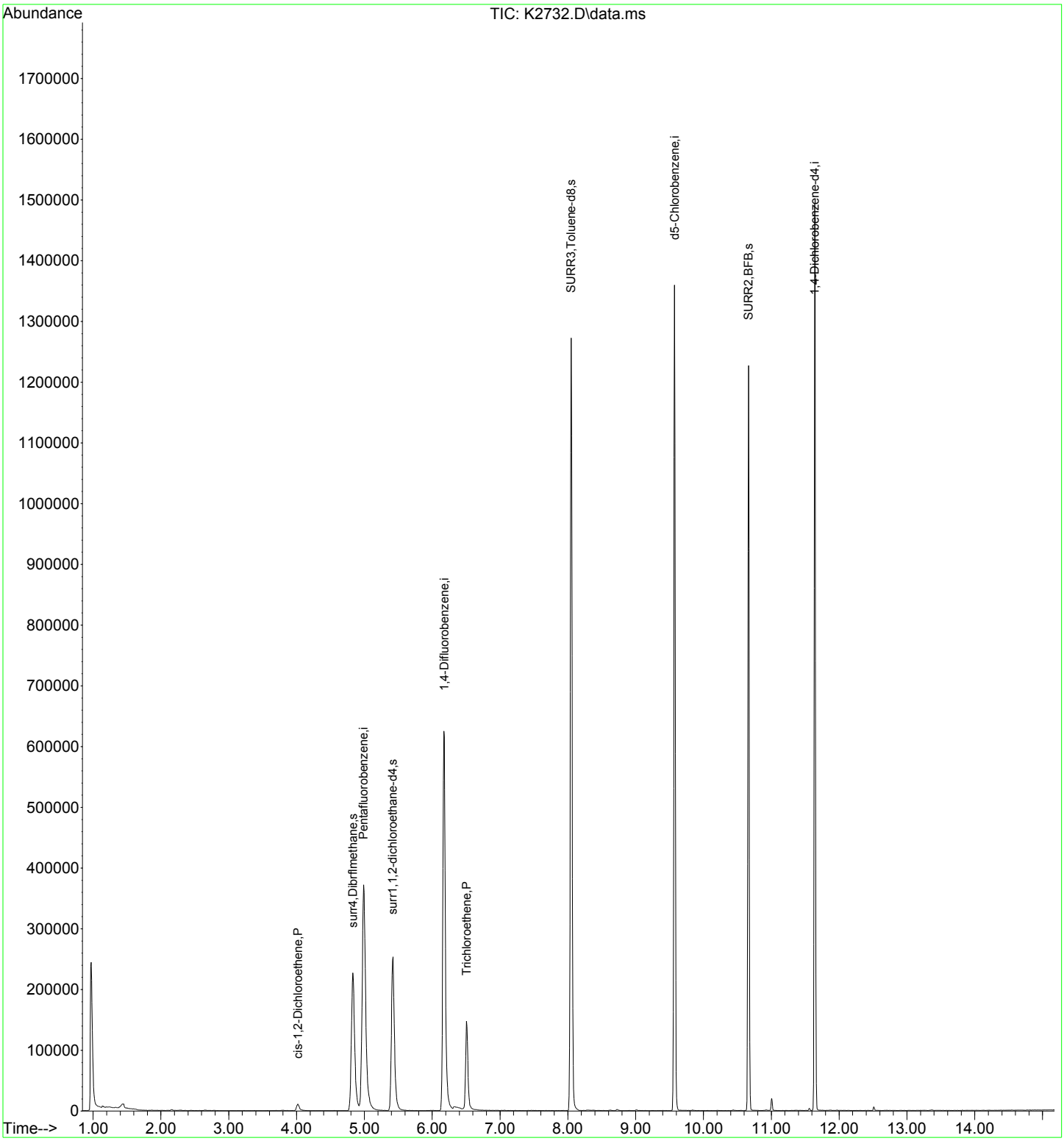
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.989	168	445079	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.178	114	704877	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.573	117	628022	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	11.640	152	288588	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.830	113	233704	49.21	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 98.42%			
48) surr1,1,2-dichloroetha...	5.415	65	294536	51.18	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.36%			
65) SURR3,Toluene-d8	8.049	98	832551	50.59	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.18%			
70) SURR2,BFB	10.665	95	313194	50.63	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.26%			
Target Compounds						Qvalue
4) Chloromethane	1.197	50	405	Below Cal		95
16) Acetone	2.160	43	2015	Below Cal		96
34) cis-1,2-Dichloroethene	4.019	96	6962	1.704	ug/L #	80
54) Trichloroethene	6.507	130	61162	13.815	ug/L	98

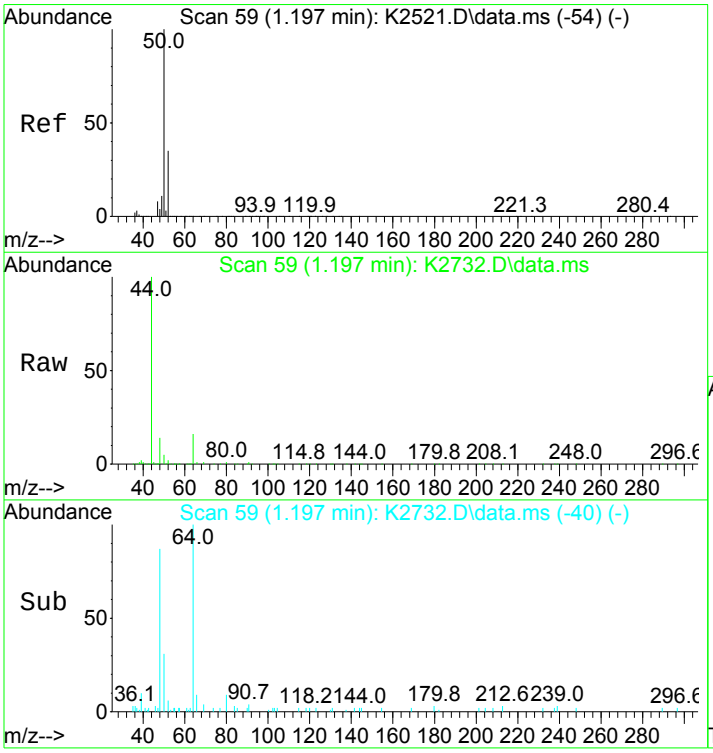
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2732.D
Acq On : 09 Jun 2024 06:03 pm
Operator : K.Ruest
Sample : R2404674-010
Misc : CIVIL 8260 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 10 09:41:24 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

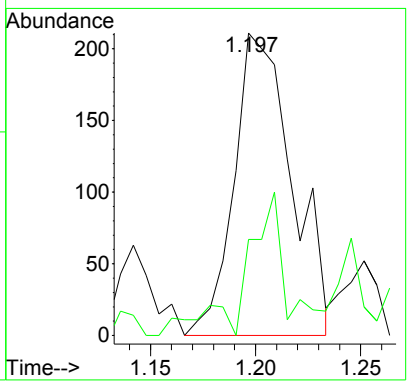


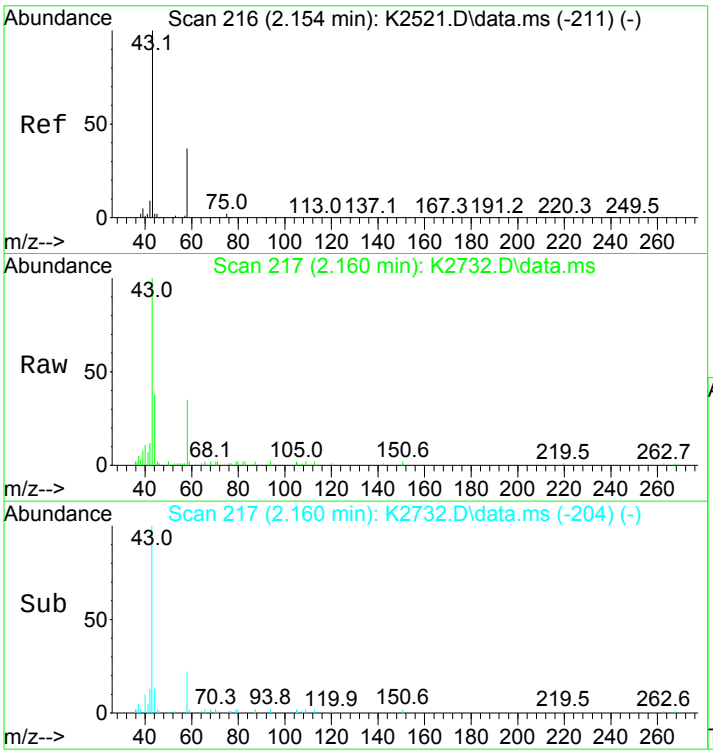


#4
Chloromethane
Concen: Below Cal
RT: 1.197 min Scan# 59
Delta R.T. 0.001 min
Lab File: K2732.D
Acq: 09 Jun 2024 06:03 pm

Tgt Ion: 50 Resp: 405

Ion	Ratio	Lower	Upper
50	100		
52	31.8	14.7	54.7

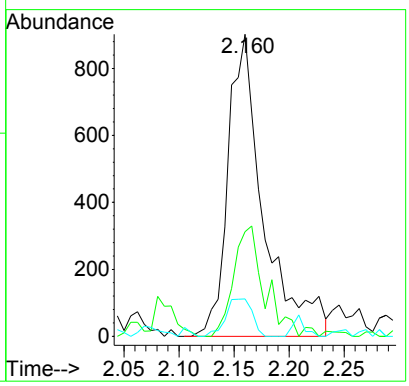


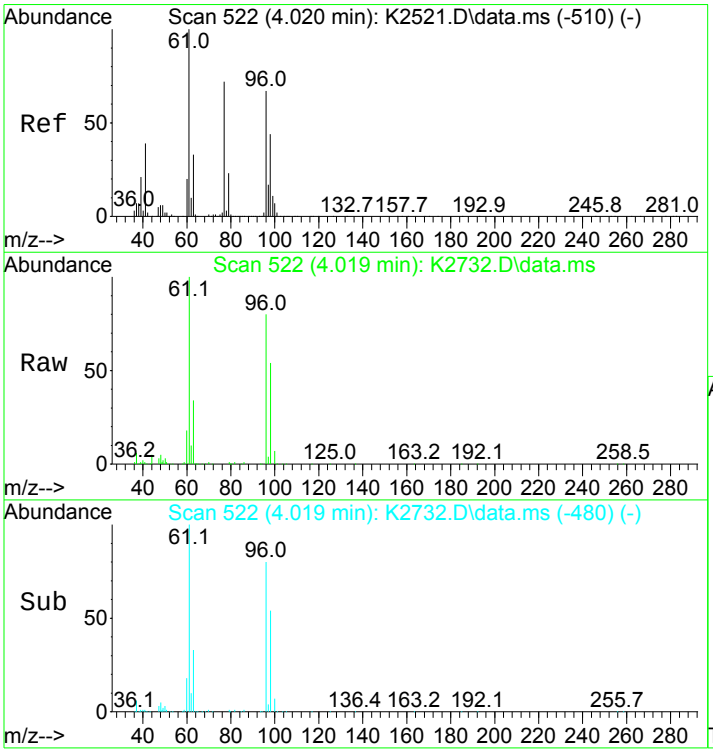


#16
Acetone
Concen: Below Cal
RT: 2.160 min Scan# 217
Delta R.T. 0.006 min
Lab File: K2732.D
Acq: 09 Jun 2024 06:03 pm

Tgt Ion: 43 Resp: 2015

Ion	Ratio	Lower	Upper
43	100		
58	34.6	16.2	56.2
42	12.4	0.0	28.5

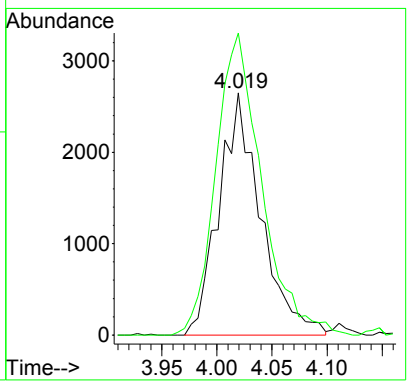


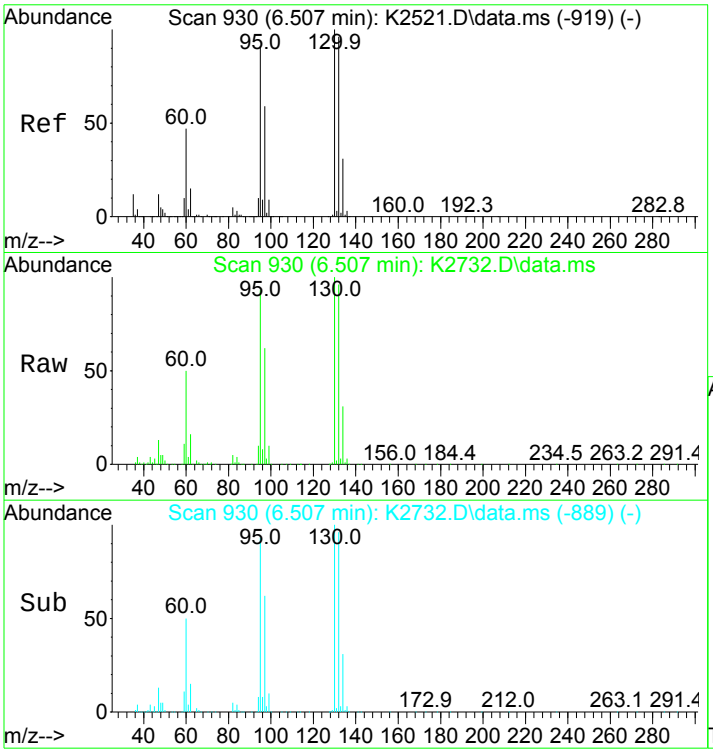


#34
cis-1,2-Dichloroethene
Concen: 1.70 ug/L
RT: 4.019 min Scan# 522
Delta R.T. -0.000 min
Lab File: K2732.D
Acq: 09 Jun 2024 06:03 pm

Tgt Ion: 96 Resp: 6962

Ion	Ratio	Lower	Upper
96	100		
61	124.8	129.5	169.5#

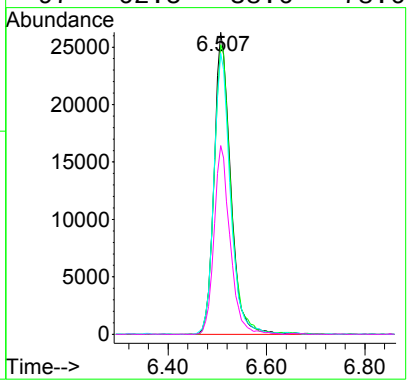




#54
Trichloroethene
Concen: 13.81 ug/L
RT: 6.507 min Scan# 930
Delta R.T. -0.000 min
Lab File: K2732.D
Acq: 09 Jun 2024 06:03 pm

Tgt Ion:130 Resp: 61162

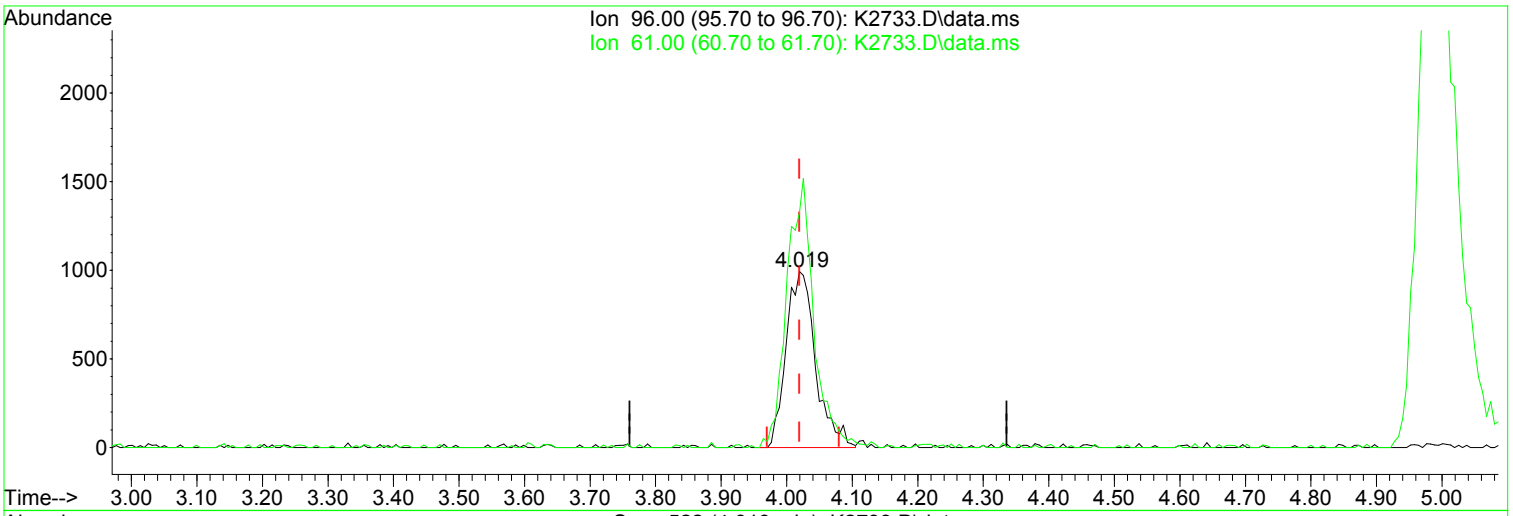
Ion	Ratio	Lower	Upper
130	100		
132	95.9	76.3	116.3
95	93.0	71.1	111.1
97	62.5	38.6	78.6

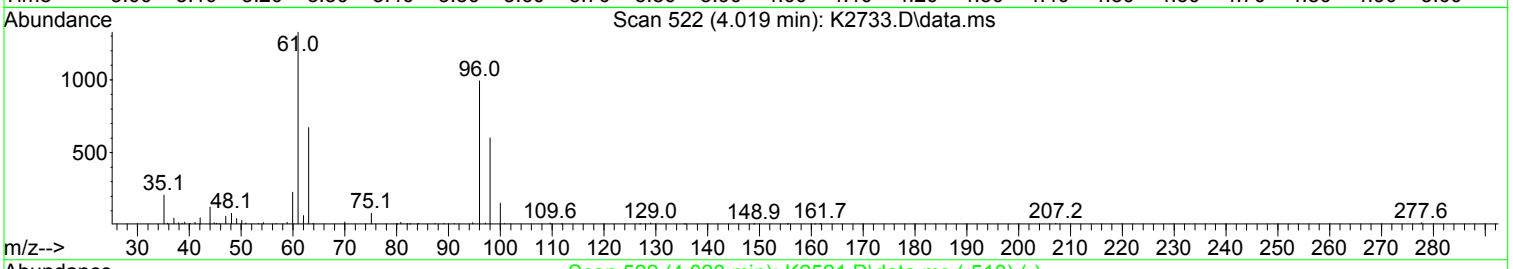


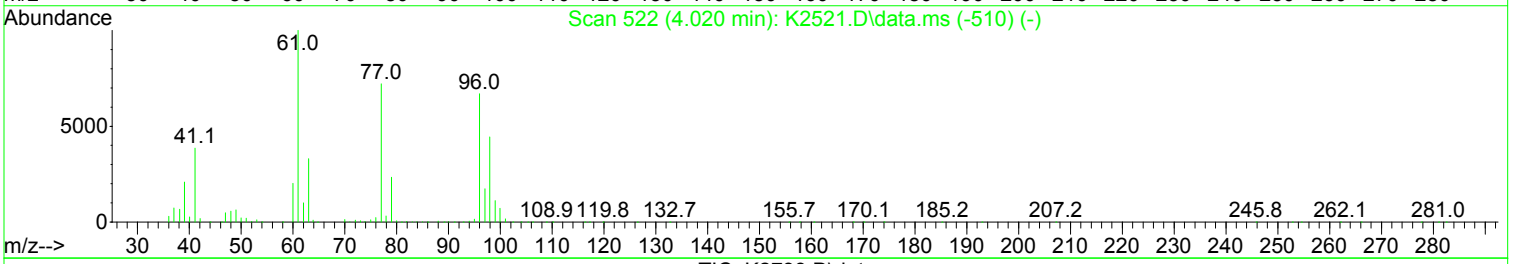
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2733.D
Acq On : 09 Jun 2024 06:26 pm
Operator : K.Ruest
Sample : R2404674-011
Misc : CIVIL 8260 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 10 09:41:40 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2733.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.019min (-0.000) 0.75 ug/L m

response 3100

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	149.50	133.64
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

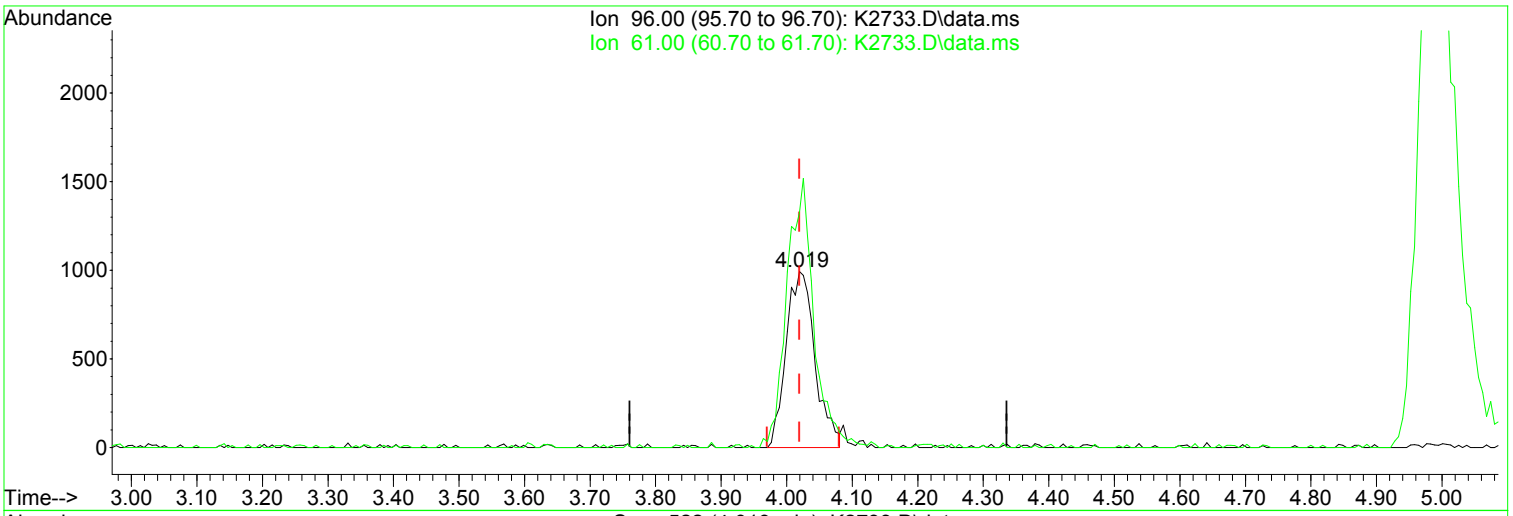
Poor integration.

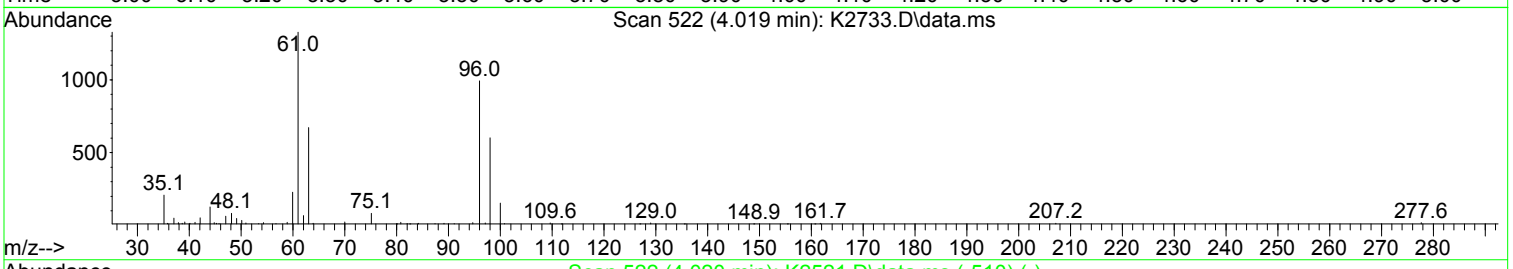
06/10/24

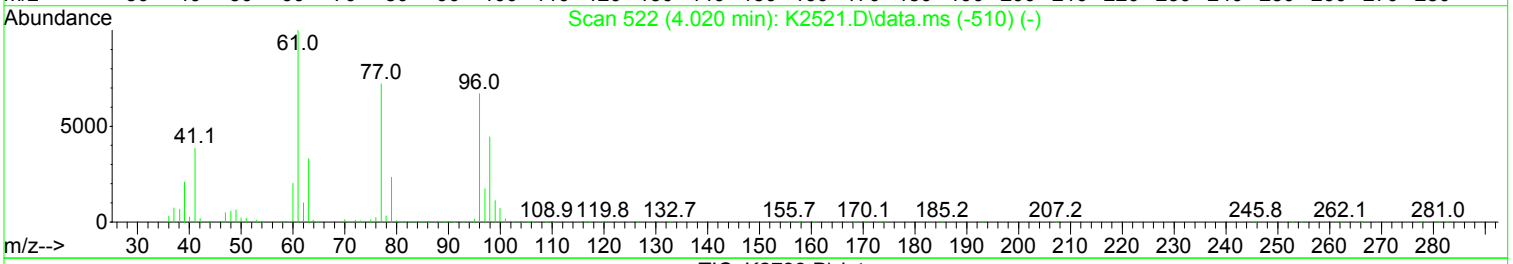
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2733.D
Acq On : 09 Jun 2024 06:26 pm
Operator : K.Ruest
Sample : R2404674-011
Misc : CIVIL 8260 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 10 09:41:40 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2733.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.019min (-0.000) 0.74 ug/L

response 3032

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	149.50	133.64
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

06/10/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2733.D
Acq On : 09 Jun 2024 06:26 pm
Operator : K.Ruest
Sample : R2404674-011
Misc : CIVIL 8260 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 10 09:41:40 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

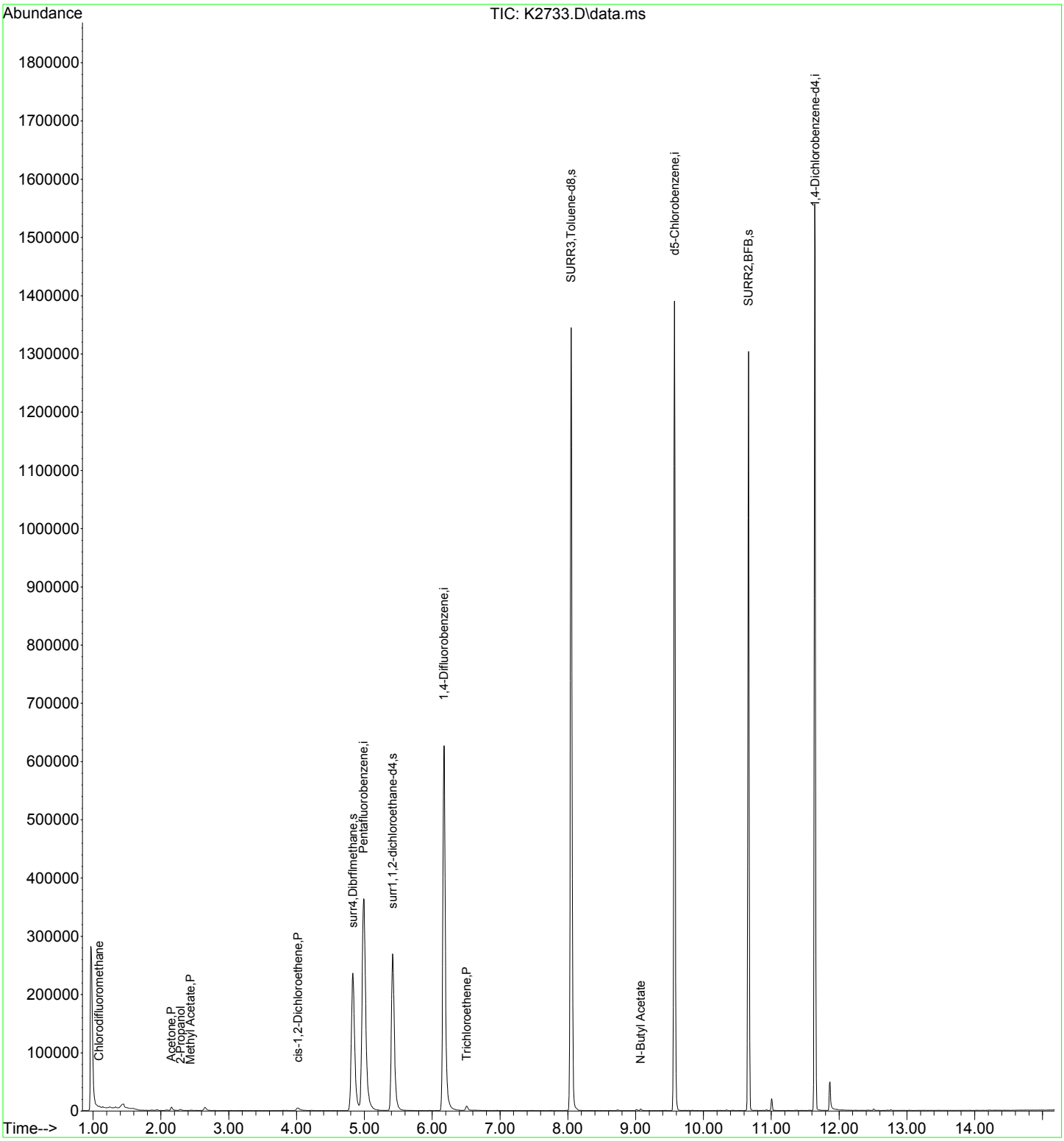
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.989	168	448584	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.171	114	713675	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.573	117	636709	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	11.646	152	299436	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.830	113	244829	50.91	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 101.82%			
48) surr1,1,2-dichloroetha...	5.415	65	305886	52.49	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 104.98%			
65) SURR3,Toluene-d8	8.049	98	878862	52.74	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 105.48%			
70) SURR2,BFB	10.664	95	334807	53.45	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 106.90%			
Target Compounds						Qvalue
2) Chlorodifluoromethane	1.087	51	1171	0.310	ug/L	98
16) Acetone	2.154	43	7175	3.919	ug/L	96
17) 2-Propanol	2.288	45	2464	9.568	ug/L	86
22) Methyl Acetate	2.434	43	930	0.255	ug/L #	63
34) cis-1,2-Dichloroethene	4.019	96	3100m	0.753	ug/L	
54) Trichloroethene	6.507	130	3283	0.732	ug/L	95
76) N-Butyl Acetate	9.073	43	1694	0.295	ug/L	91

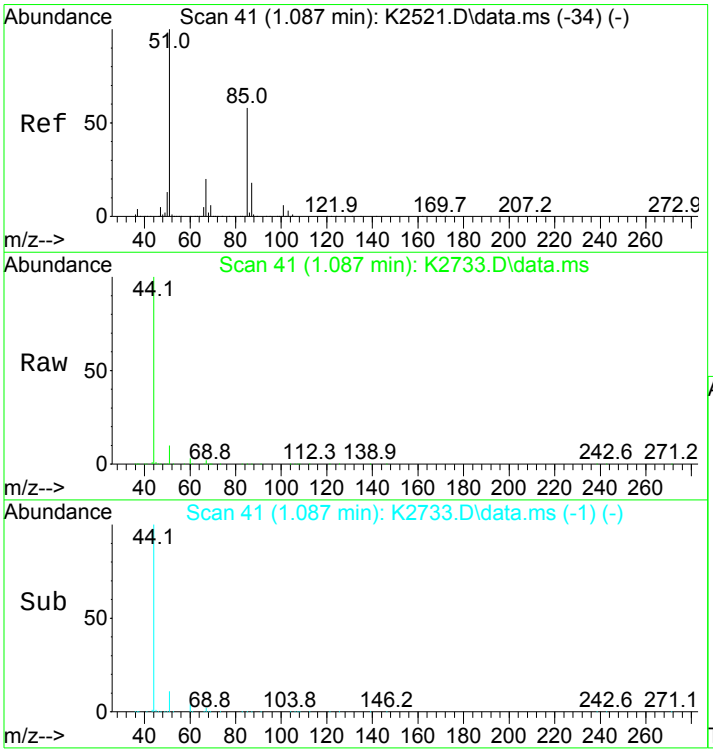
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2733.D
Acq On : 09 Jun 2024 06:26 pm
Operator : K.Ruest
Sample : R2404674-011
Misc : CIVIL 8260 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 10 09:41:40 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

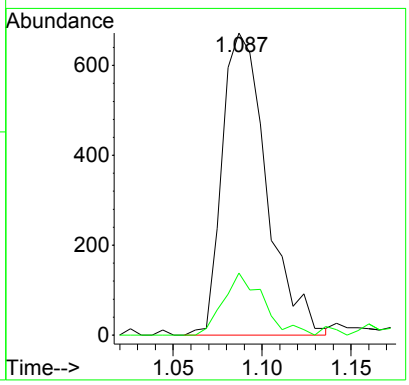


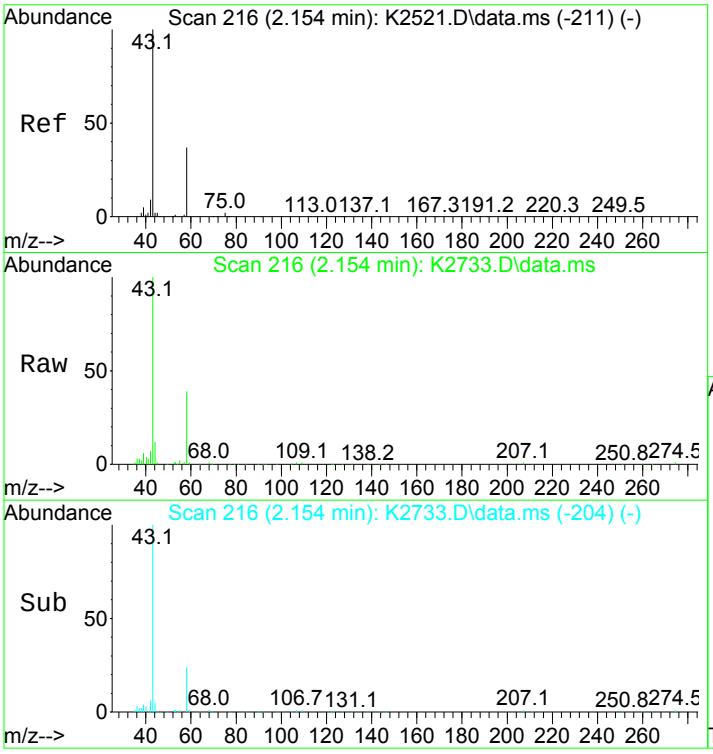


#2
Chlorodifluoromethane
Concen: 0.31 ug/L
RT: 1.087 min Scan# 41
Delta R.T. -0.000 min
Lab File: K2733.D
Acq: 09 Jun 2024 06:26 pm

Tgt Ion: 51 Resp: 1171

Ion	Ratio	Lower	Upper
51	100		
67	20.5	0.0	39.6

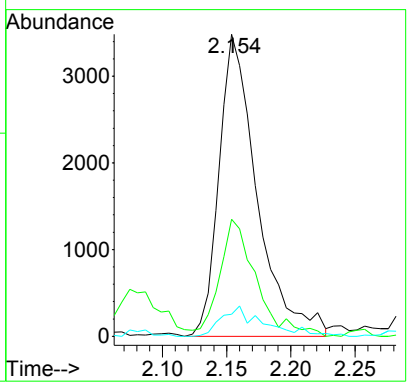


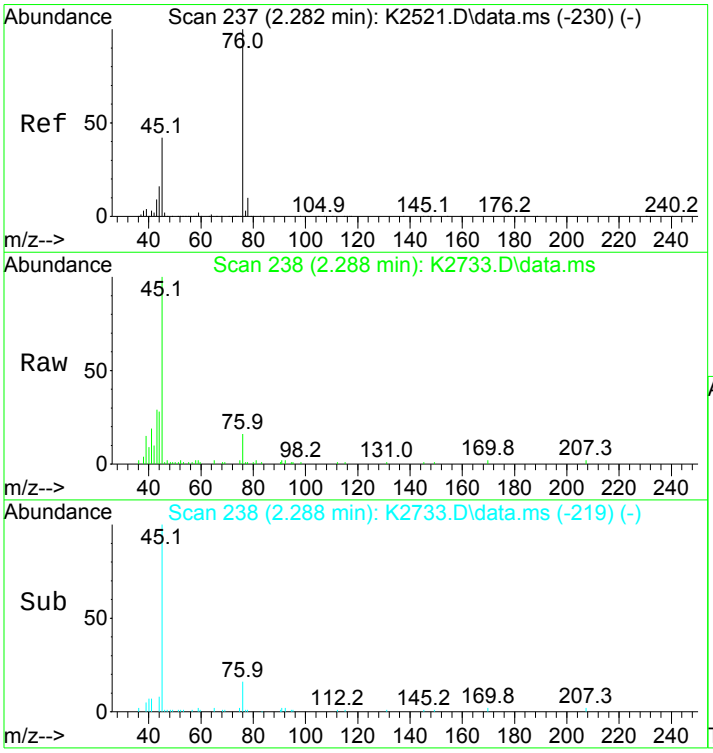


#16
Acetone
Concen: 3.92 ug/L
RT: 2.154 min Scan# 216
Delta R.T. -0.000 min
Lab File: K2733.D
Acq: 09 Jun 2024 06:26 pm

Tgt Ion: 43 Resp: 7175

Ion	Ratio	Lower	Upper
43	100		
58	38.8	16.2	56.2
42	7.3	0.0	28.5

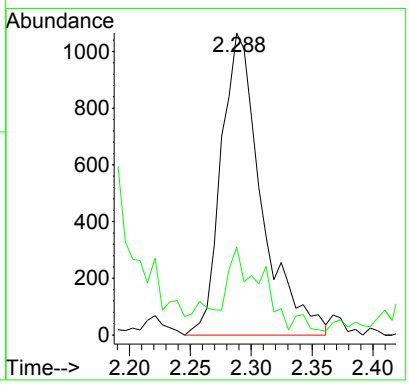


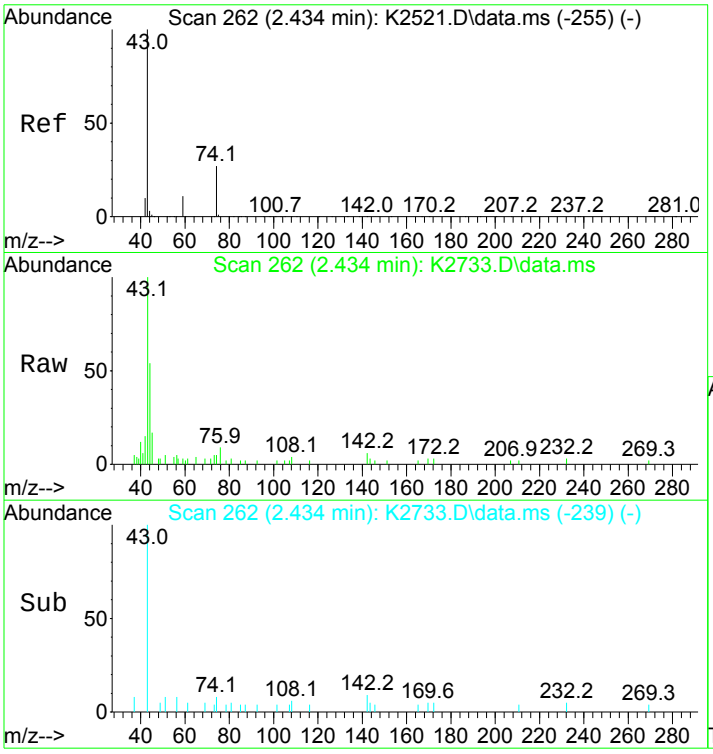


#17
2-Propanol
Concen: 9.57 ug/L
RT: 2.288 min Scan# 238
Delta R.T. 0.006 min
Lab File: K2733.D
Acq: 09 Jun 2024 06:26 pm

Tgt Ion: 45 Resp: 2464

Ion	Ratio	Lower	Upper
45	100		
43	29.2	2.4	42.4

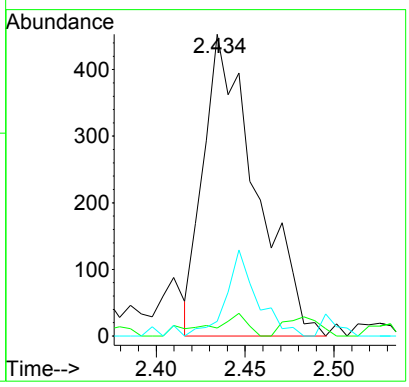


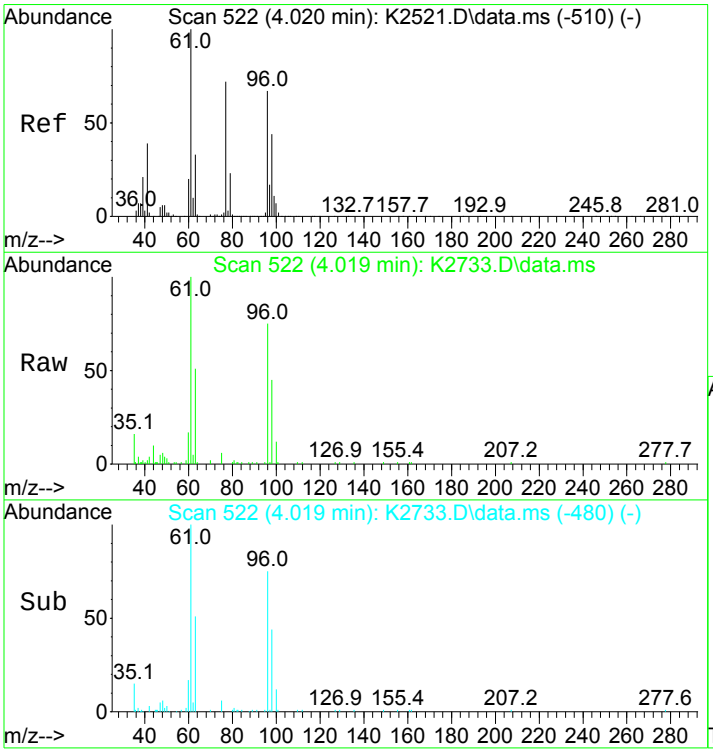


#22
Methyl Acetate
Concen: 0.26 ug/L
RT: 2.434 min Scan# 262
Delta R.T. -0.000 min
Lab File: K2733.D
Acq: 09 Jun 2024 06:26 pm

Tgt Ion: 43 Resp: 930

Ion	Ratio	Lower	Upper
43	100		
59	2.6	0.0	31.1
74	4.9	6.8	46.8#

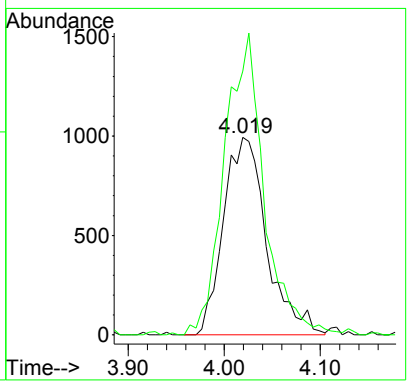


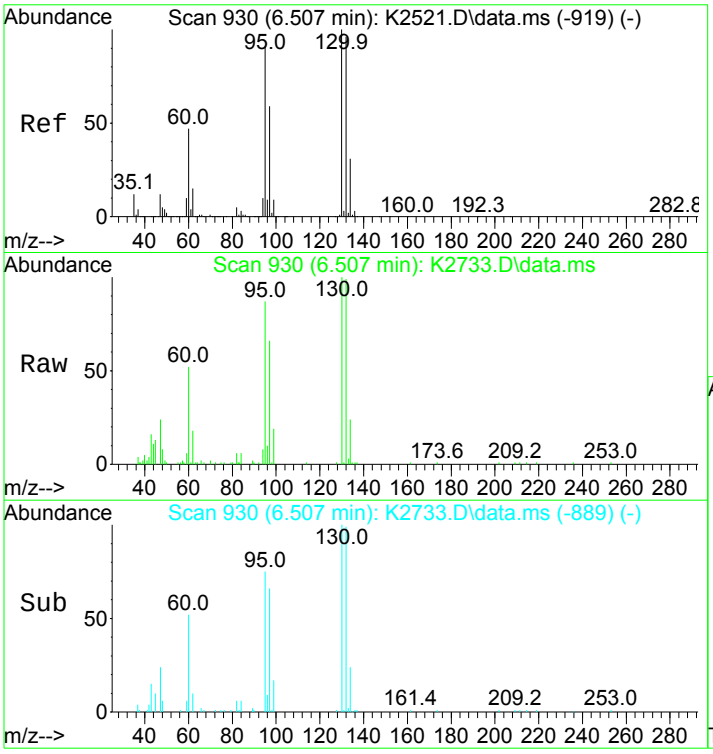


#34
cis-1,2-Dichloroethene
Concen: 0.75 ug/L m
RT: 4.019 min Scan# 522
Delta R.T. -0.000 min
Lab File: K2733.D
Acq: 09 Jun 2024 06:26 pm

Tgt Ion: 96 Resp: 3100

Ion	Ratio	Lower	Upper
96	100		
61	133.6	129.5	169.5

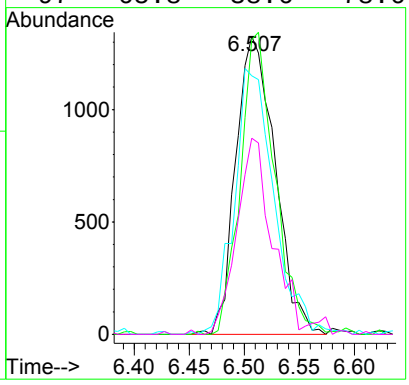


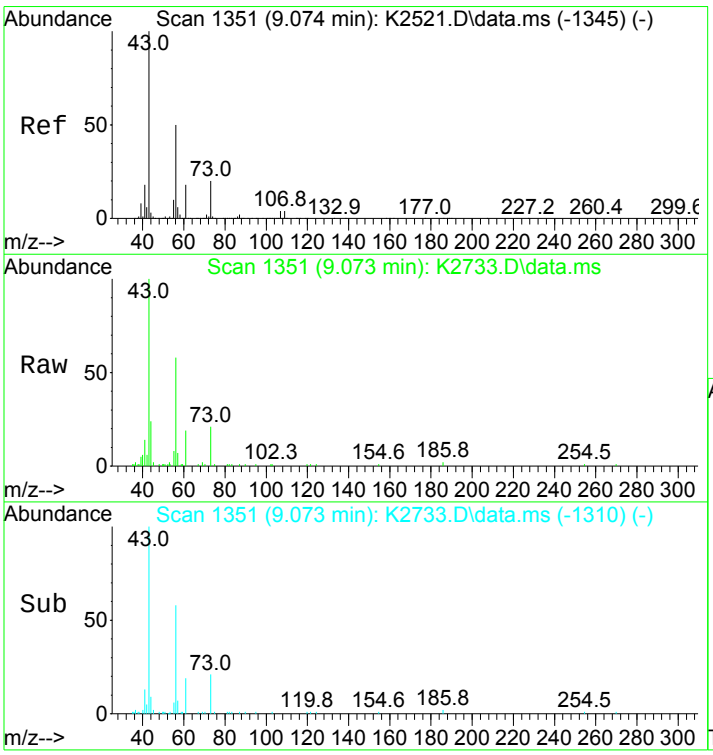


#54
Trichloroethene
Concen: 0.73 ug/L
RT: 6.507 min Scan# 930
Delta R.T. -0.000 min
Lab File: K2733.D
Acq: 09 Jun 2024 06:26 pm

Tgt Ion:130 Resp: 3283

Ion	Ratio	Lower	Upper
130	100		
132	98.9	76.3	116.3
95	86.7	71.1	111.1
97	65.8	38.6	78.6

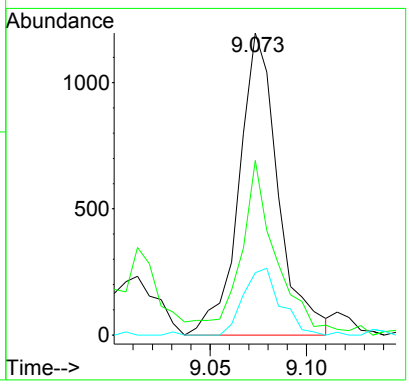




#76
N-Butyl Acetate
Concen: 0.30 ug/L
RT: 9.073 min Scan# 1351
Delta R.T. -0.000 min
Lab File: K2733.D
Acq: 09 Jun 2024 06:26 pm

Tgt Ion: 43 Resp: 1694

Ion	Ratio	Lower	Upper
43	100		
56	57.8	29.7	69.7
73	20.6	0.0	39.6



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2752.D
Acq On : 10 Jun 2024 02:39 pm
Operator : K.Ruest
Sample : R2404674-012
Misc : CIVIL 8260 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 10 15:12:18 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

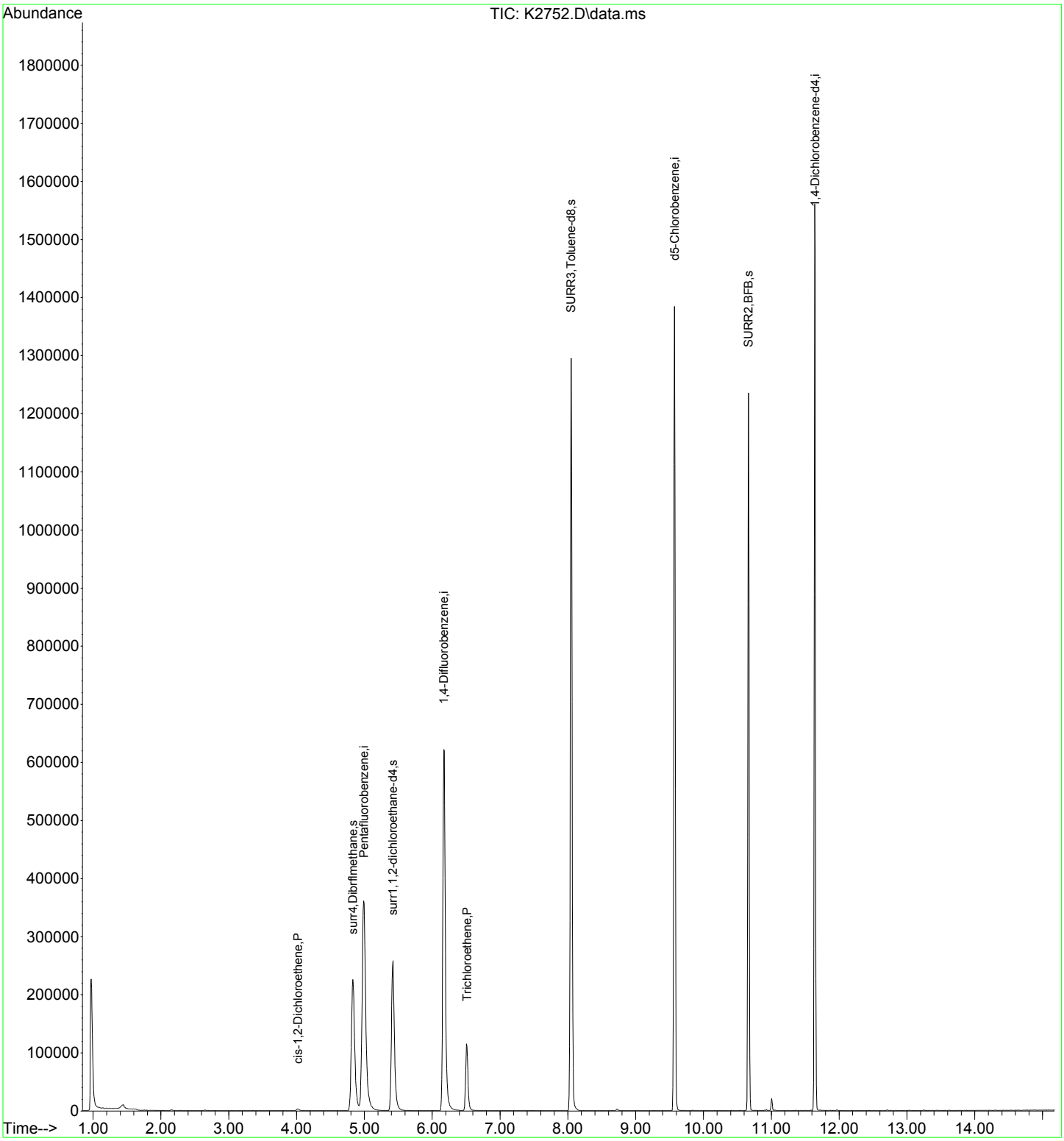
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.995	168	448721	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.172	114	700024	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.573	117	631636	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	11.646	152	299987	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.830	113	237250	50.30	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 100.60%			
48) surr1,1,2-dichloroetha...	5.422	65	296629	51.90	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 103.80%			
65) SURR3,Toluene-d8	8.049	98	841328	51.47	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.94%			
70) SURR2,BFB	10.665	95	316125	51.45	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.90%			
Target Compounds						Qvalue
4) Chloromethane	1.203	50	508	Below Cal		88
16) Acetone	2.160	43	1570	Below Cal		93
34) cis-1,2-Dichloroethene	4.019	96	1799	0.437	ug/L	95
54) Trichloroethene	6.513	130	50666	11.523	ug/L	94

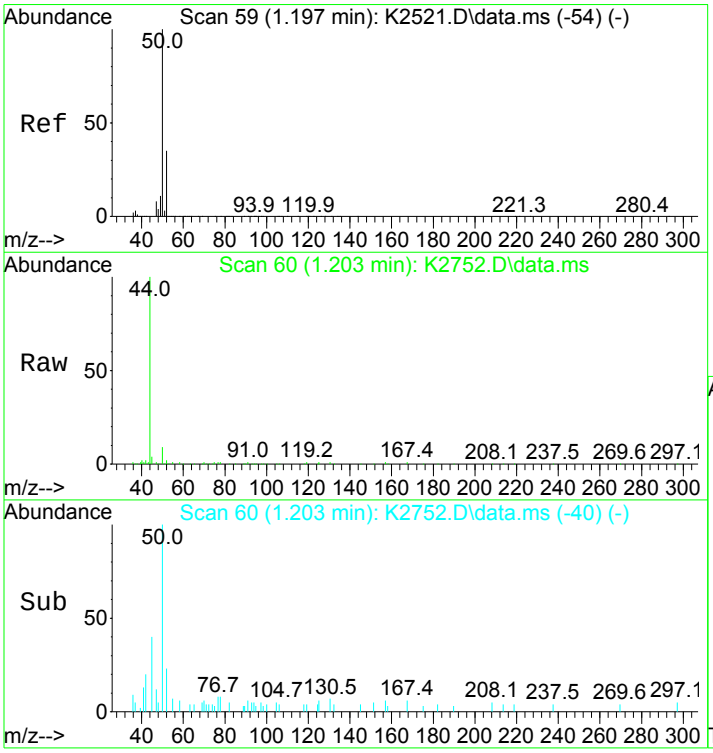
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2752.D
Acq On : 10 Jun 2024 02:39 pm
Operator : K.Ruest
Sample : R2404674-012
Misc : CIVIL 8260 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 10 15:12:18 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

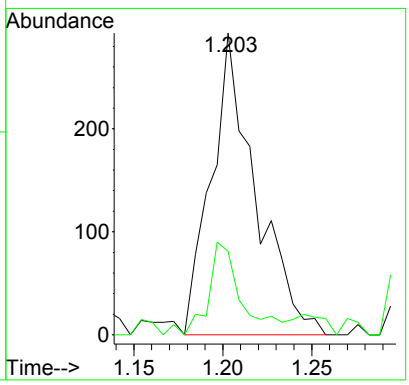


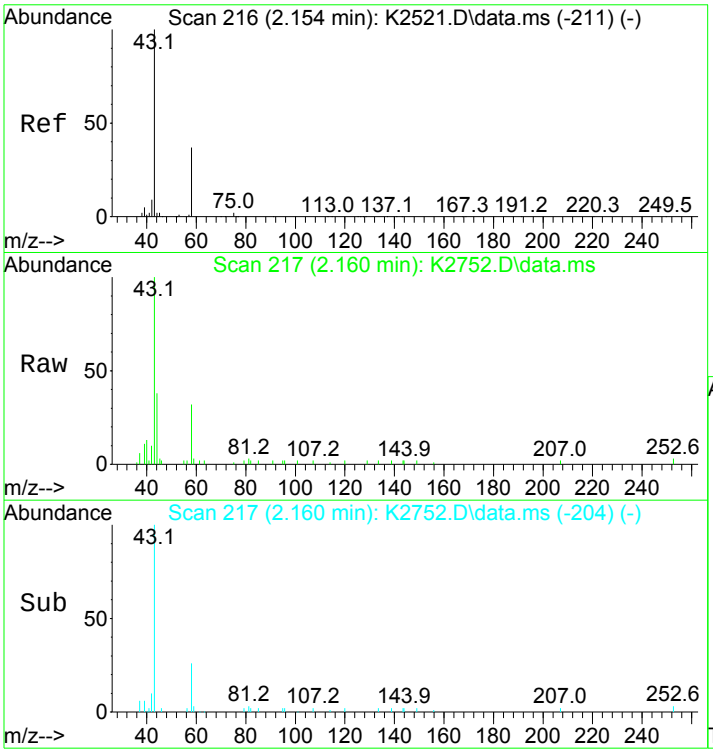


#4
Chloromethane
Concen: Below Cal
RT: 1.203 min Scan# 60
Delta R.T. 0.007 min
Lab File: K2752.D
Acq: 10 Jun 2024 02:39 pm

Tgt Ion: 50 Resp: 508

Ion	Ratio	Lower	Upper
50	100		
52	27.6	14.7	54.7

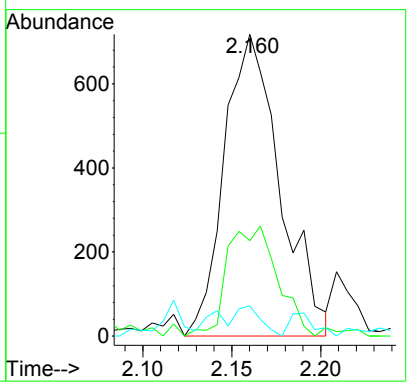


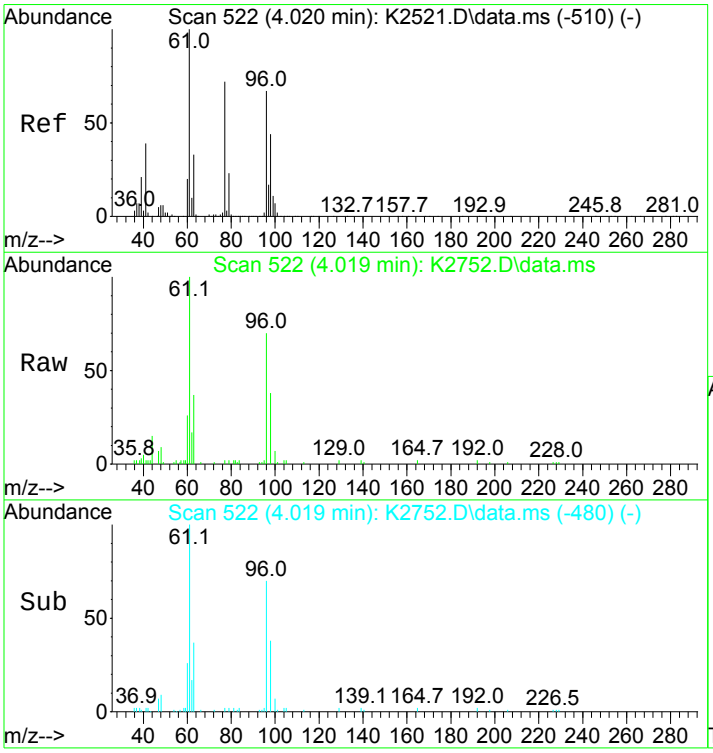


#16
Acetone
Concen: Below Cal
RT: 2.160 min Scan# 217
Delta R.T. 0.006 min
Lab File: K2752.D
Acq: 10 Jun 2024 02:39 pm

Tgt Ion: 43 Resp: 1570

Ion	Ratio	Lower	Upper
43	100		
58	31.6	16.2	56.2
42	10.0	0.0	28.5

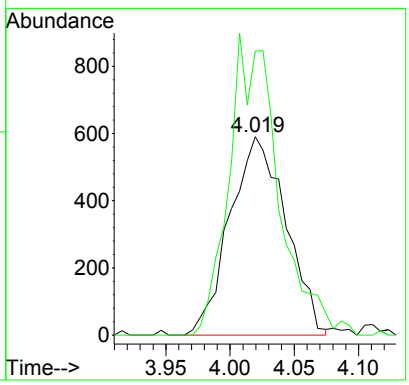


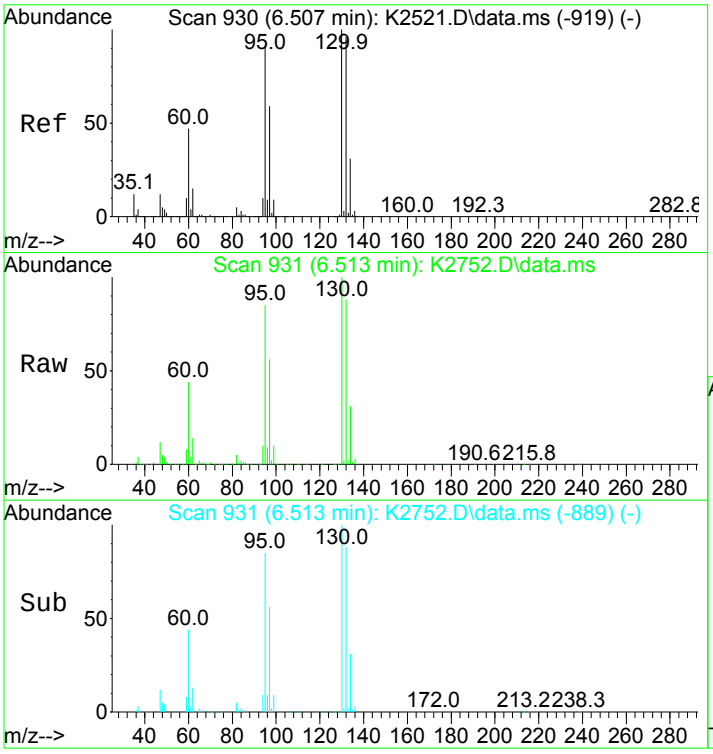


#34
cis-1,2-Dichloroethene
Concen: 0.44 ug/L
RT: 4.019 min Scan# 522
Delta R.T. -0.000 min
Lab File: K2752.D
Acq: 10 Jun 2024 02:39 pm

Tgt Ion: 96 Resp: 1799

Ion	Ratio	Lower	Upper
96	100		
61	143.4	129.5	169.5

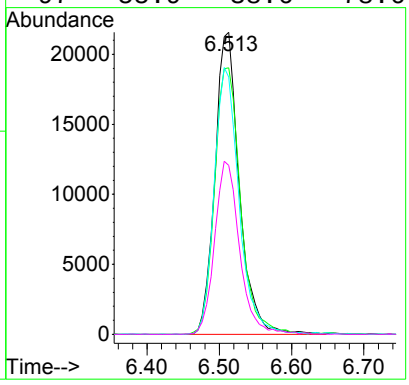




#54
Trichloroethene
Concen: 11.52 ug/L
RT: 6.513 min Scan# 931
Delta R.T. 0.006 min
Lab File: K2752.D
Acq: 10 Jun 2024 02:39 pm

Tgt Ion:130 Resp: 50666

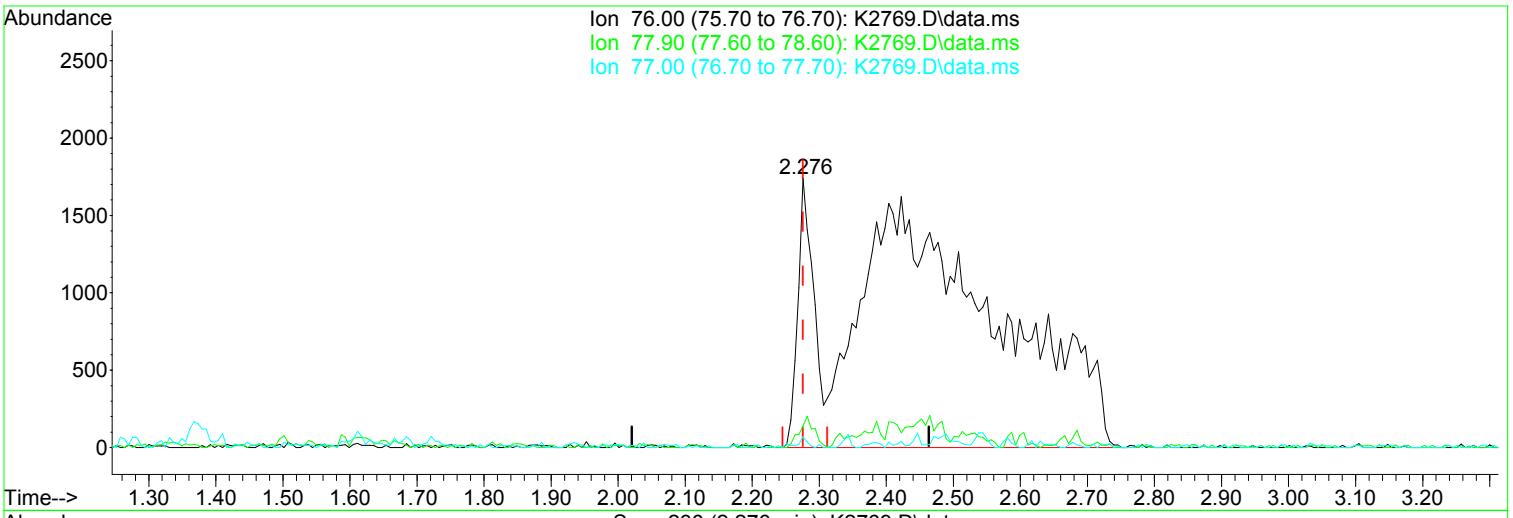
Ion	Ratio	Lower	Upper
130	100		
132	88.2	76.3	116.3
95	85.2	71.1	111.1
97	55.9	38.6	78.6

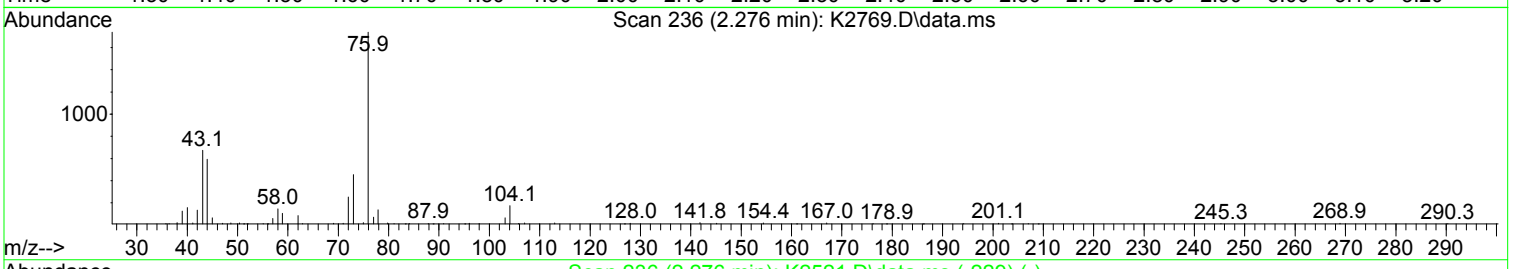


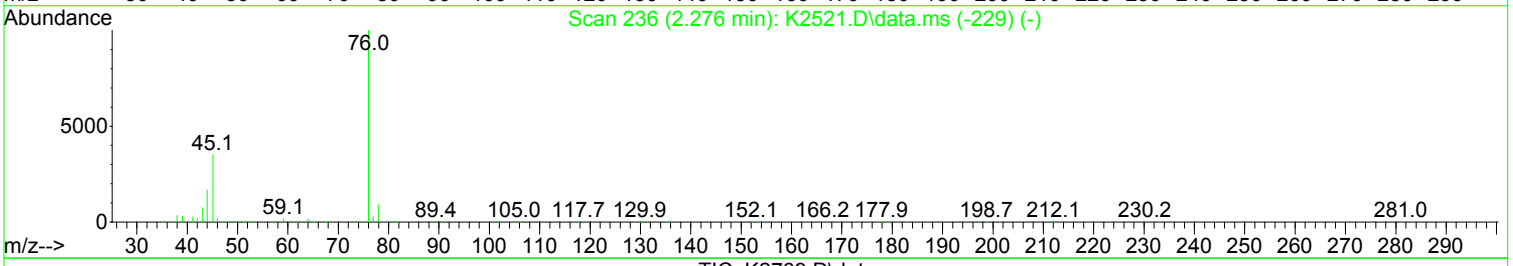
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2769.D
Acq On : 10 Jun 2024 09:10 pm
Operator : K.Ruest
Sample : R2404674-013
Misc : CIVIL 8260 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 11 09:33:25 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2769.D\data.ms

(19) Carbon Disulfide (P)

2.276min (-0.000) 2.79 ug/L m

response 25550

Ion	Exp%	Act%
76.00	100.00	100.00
77.90	8.90	7.94
77.00	2.80	4.03
0.00	0.00	0.00

Manual Integration:

After

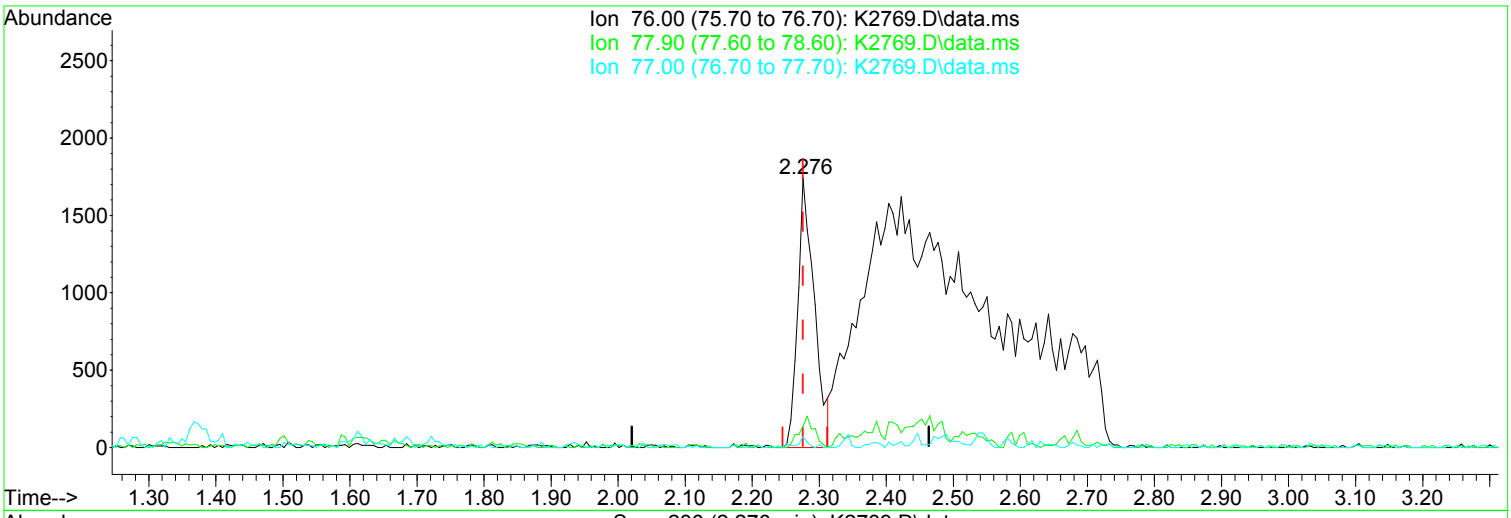
Other - so2 interference

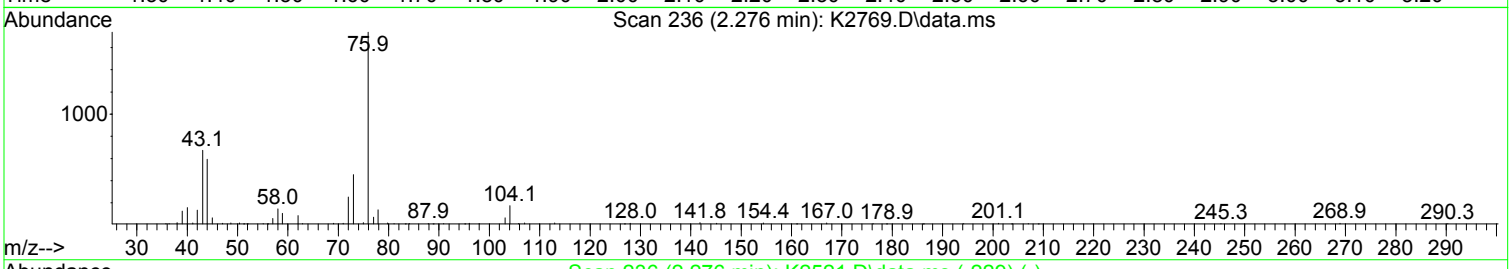
06/14/24

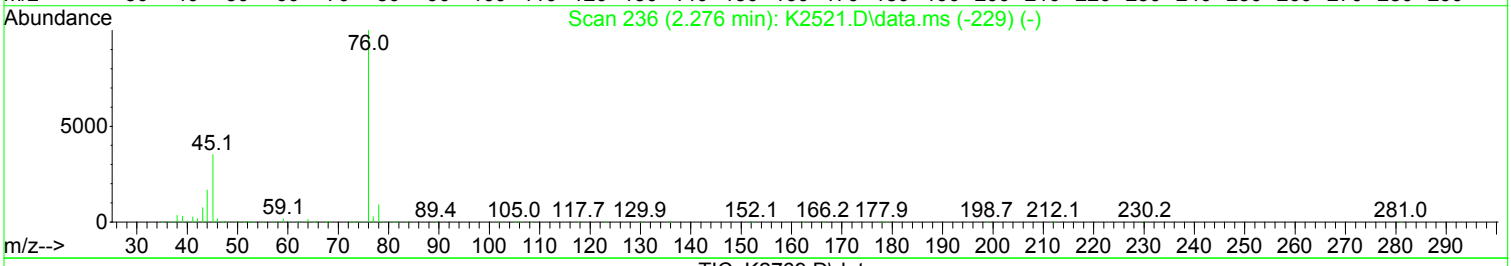
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2769.D
Acq On : 10 Jun 2024 09:10 pm
Operator : K.Ruest
Sample : R2404674-013
Misc : CIVIL 8260 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 11 09:33:25 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2769.D\data.ms

(19) Carbon Disulfide (P)

2.276min (-0.000) 0.33 ug/L

response 2987

Ion	Exp%	Act%
76.00	100.00	100.00
77.90	8.90	7.94
77.00	2.80	4.03
0.00	0.00	0.00

Manual Integration:

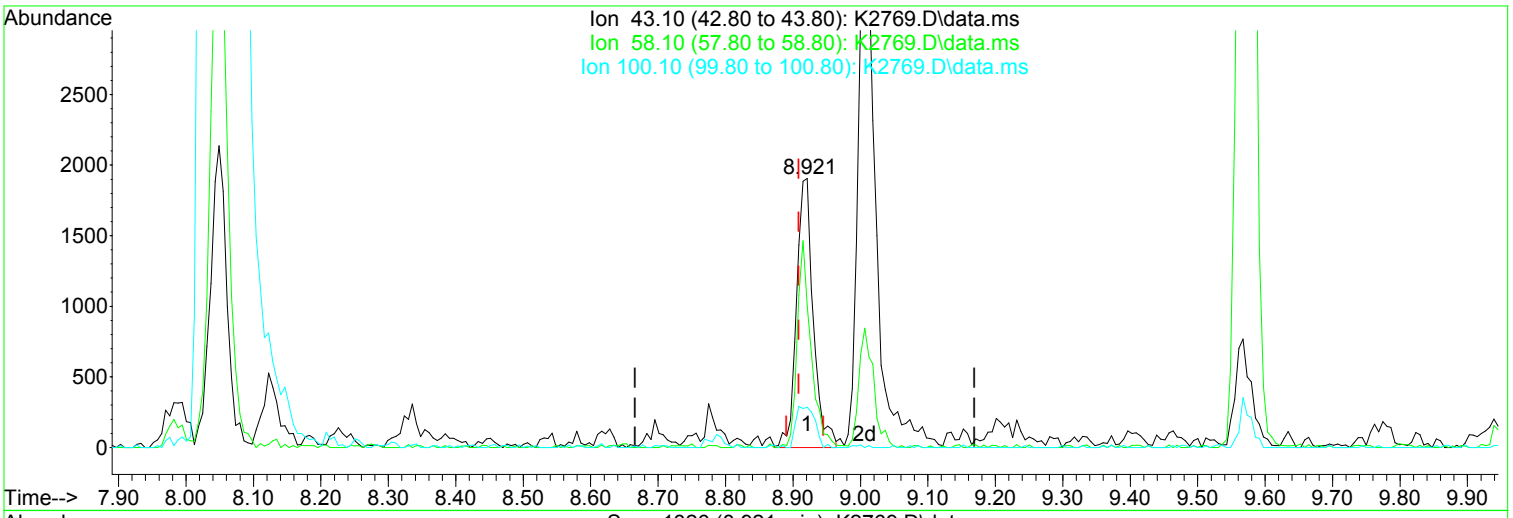
Before

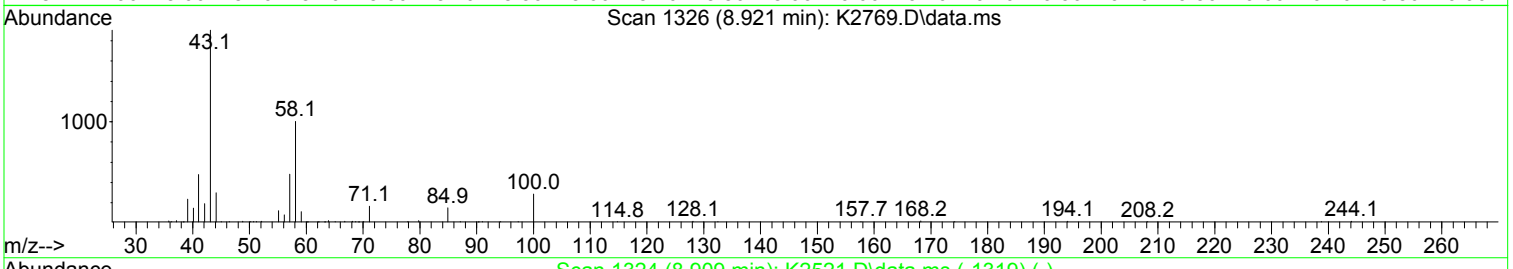
06/14/24

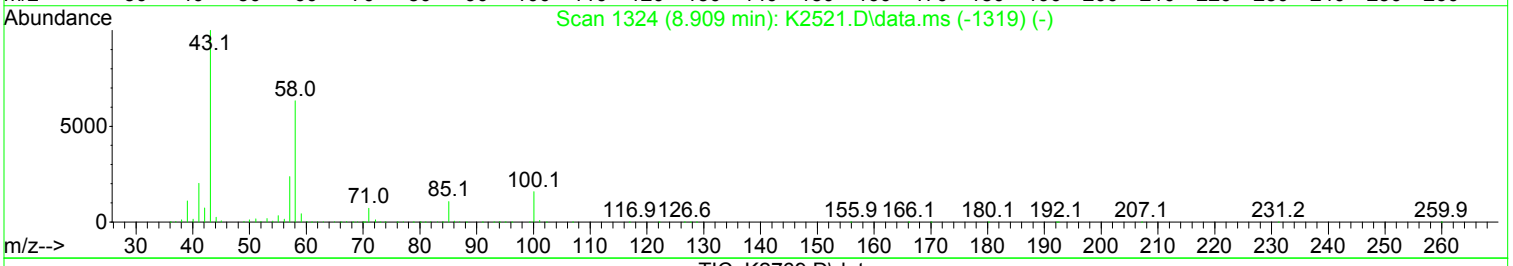
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2769.D
Acq On : 10 Jun 2024 09:10 pm
Operator : K.Ruest
Sample : R2404674-013
Misc : CIVIL 8260 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 11 09:33:25 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2769.D\data.ms

(73) 2-Hexanone (P)

8.921min (+ 0.012) 1.28 ug/L m

response 3274

Ion	Exp%	Act%
43.10	100.00	100.00
58.10	63.20	52.76
100.10	15.70	14.91
0.00	0.00	0.00

Manual Integration:

After

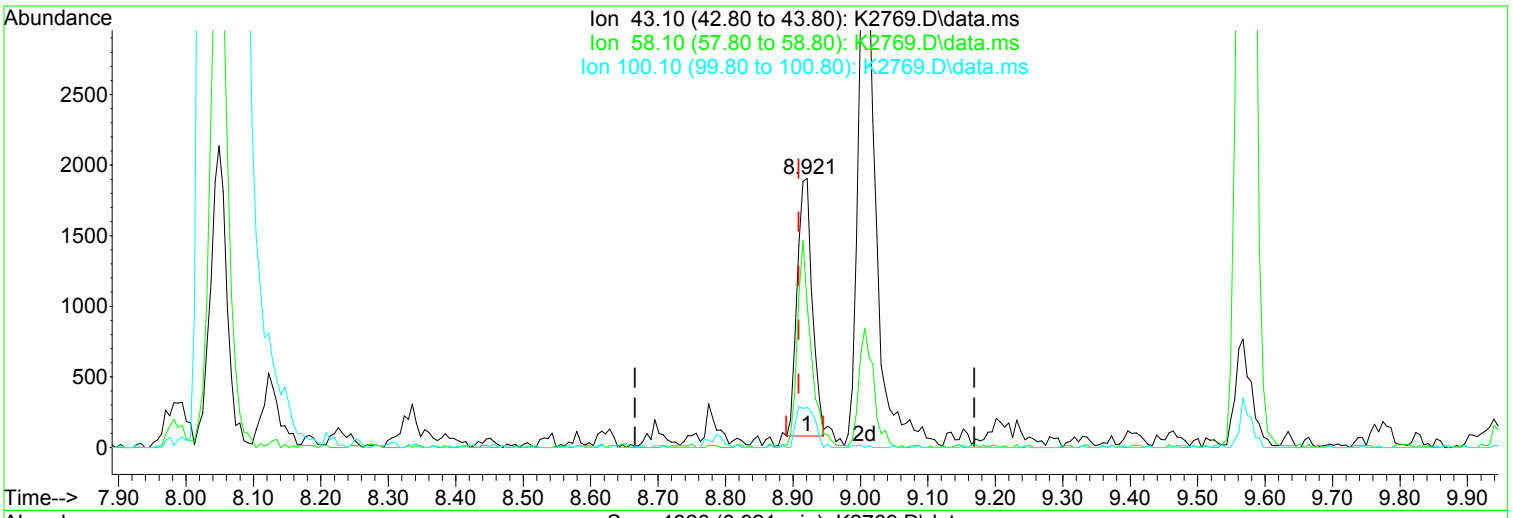
Poor integration.

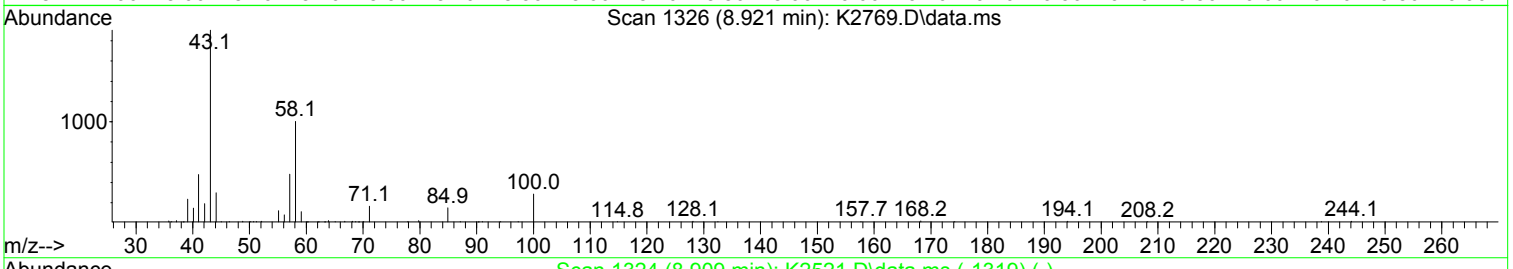
06/14/24

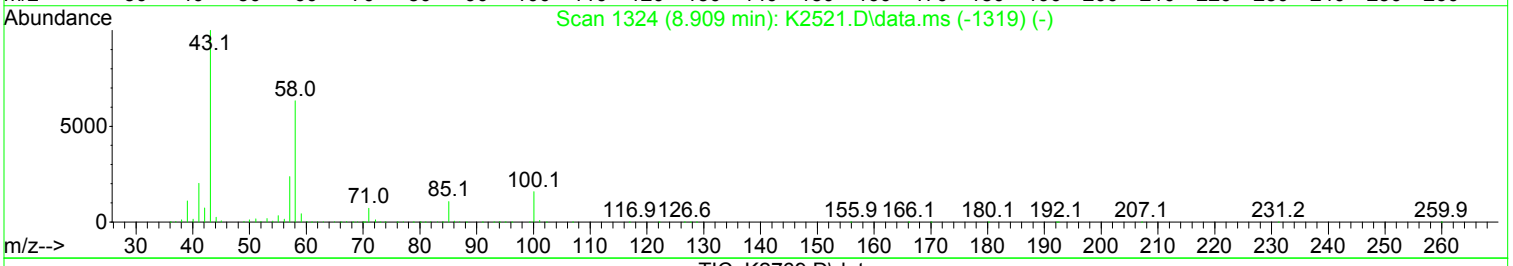
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2769.D
Acq On : 10 Jun 2024 09:10 pm
Operator : K.Ruest
Sample : R2404674-013
Misc : CIVIL 8260 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 11 09:33:25 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2769.D\data.ms

(73) 2-Hexanone (P)

8.921min (+ 0.012) 1.10 ug/L

response 2816

Ion	Exp%	Act%
43.10	100.00	100.00
58.10	63.20	52.76
100.10	15.70	14.91
0.00	0.00	0.00

Manual Integration:

Before

06/14/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2769.D
Acq On : 10 Jun 2024 09:10 pm
Operator : K.Ruest
Sample : R2404674-013
Misc : CIVIL 8260 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 11 09:33:25 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

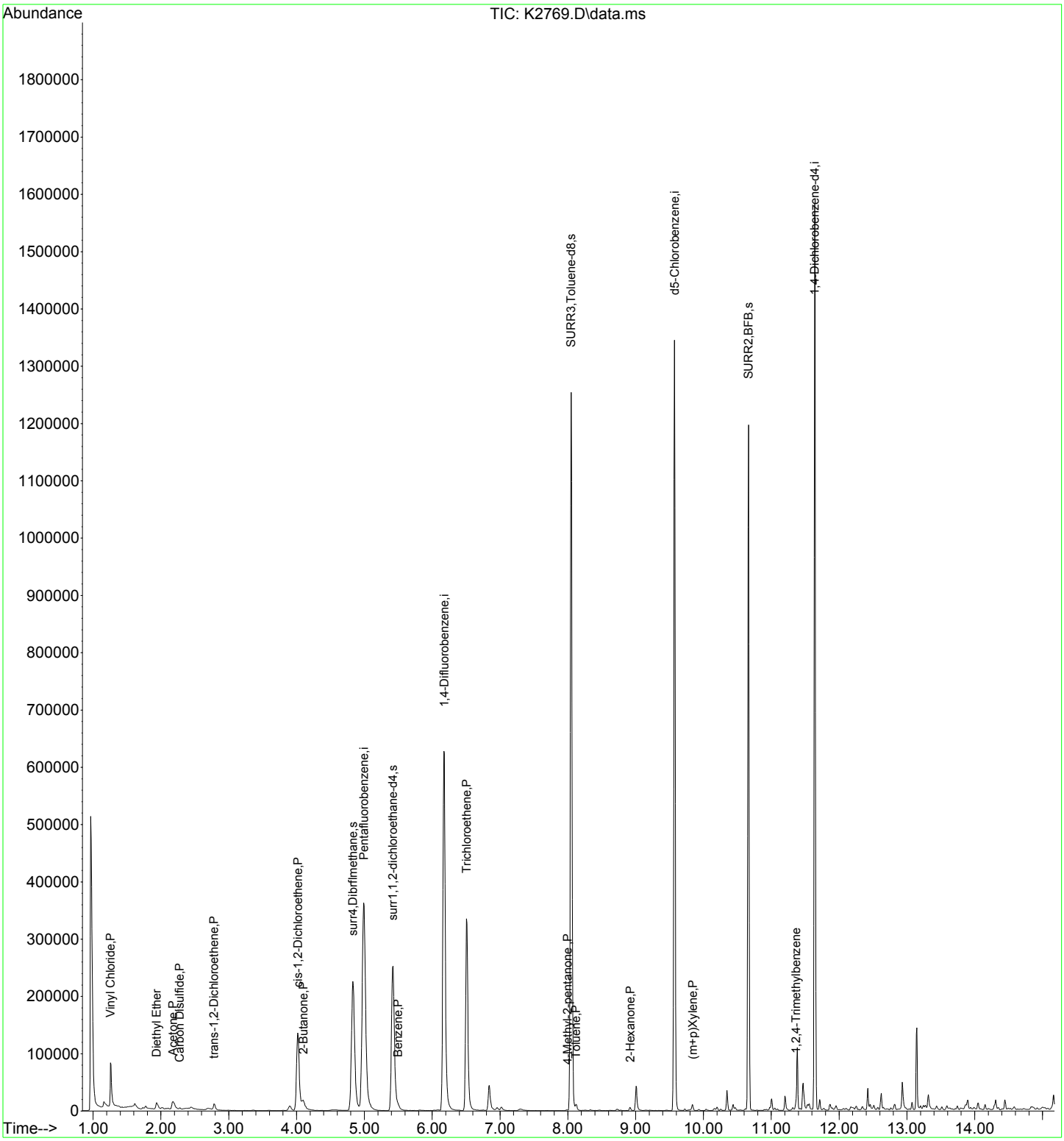
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.995	168	433628	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.178	114	678644	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.573	117	607562	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	11.640	152	298930	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.830	113	228445	49.96	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 99.92%			
48) surr1,1,2-dichloroetha...	5.422	65	290626	52.45	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 104.90%			
65) SURR3,Toluene-d8	8.049	98	810758	51.17	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.34%			
70) SURR2,BFB	10.665	95	307886	51.69	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 103.38%			
Target Compounds						Qvalue
4) Chloromethane	1.264	50	349	Below Cal	#	45
5) Vinyl Chloride	1.258	62	65649	15.107	ug/L	97
10) Diethyl Ether	1.934	59	6304	2.061	ug/L	96
16) Acetone	2.178	43	25318	21.443	ug/L	94
19) Carbon Disulfide	2.276	76	25550m	2.786	ug/L	
27) trans-1,2-Dichloroethene	2.782	96	4349	1.244	ug/L	95
34) cis-1,2-Dichloroethene	4.019	96	88058	22.125	ug/L	87
35) 2-Butanone	4.099	43	33625	20.787	ug/L	97
49) Benzene	5.495	78	5732	0.437	ug/L #	37
54) Trichloroethene	6.507	130	141734	33.251	ug/L	98
64) 4-Methyl-2-pentanone	7.994	43	735	0.207	ug/L	97
66) Toluene	8.122	91	4740	0.315	ug/L	95
73) 2-Hexanone	8.921	43	3274m	1.281	ug/L	
83) (m+p)Xylene	9.841	106	2567	0.373	ug/L #	85
101) 1,2,4-Trimethylbenzene	11.366	105	6072	0.405	ug/L	92

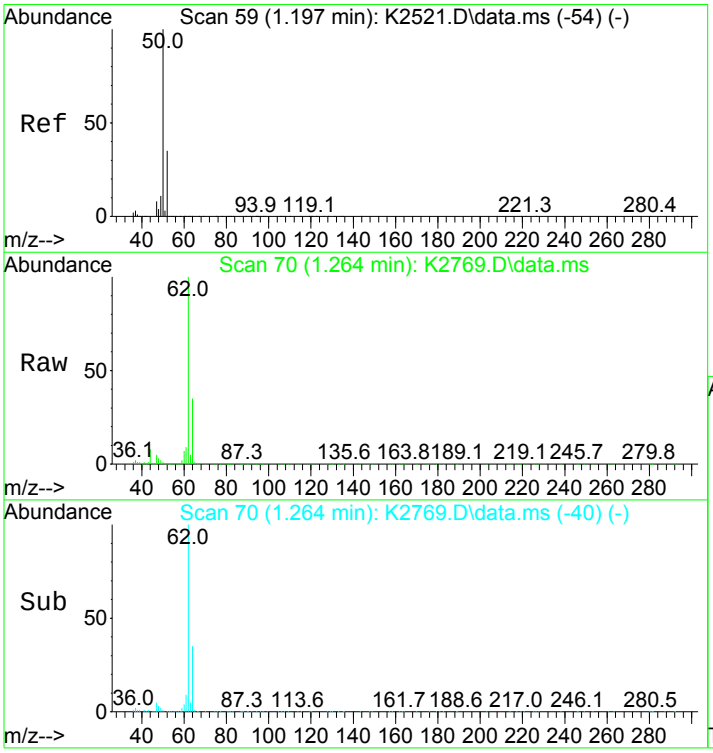
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2769.D
Acq On : 10 Jun 2024 09:10 pm
Operator : K.Ruest
Sample : R2404674-013
Misc : CIVIL 8260 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 11 09:33:25 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

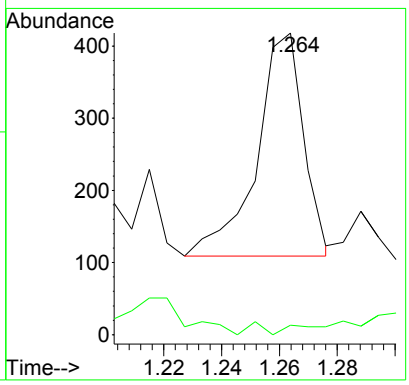


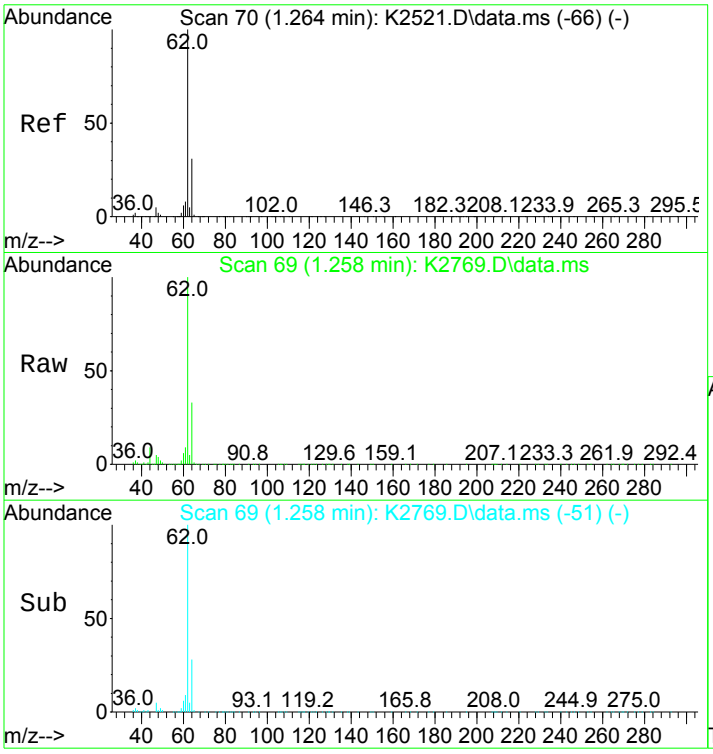


#4
Chloromethane
Concen: Below Cal
RT: 1.264 min Scan# 70
Delta R.T. 0.068 min
Lab File: K2769.D
Acq: 10 Jun 2024 09:10 pm

Tgt Ion: 50 Resp: 349

Ion	Ratio	Lower	Upper
50	100		
52	3.1	14.7	54.7#

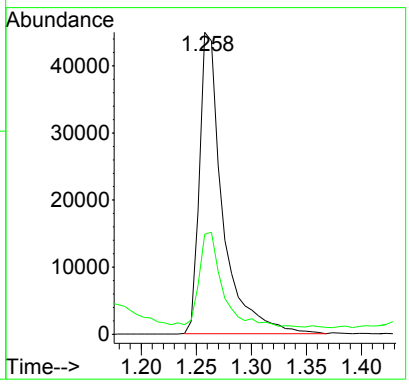


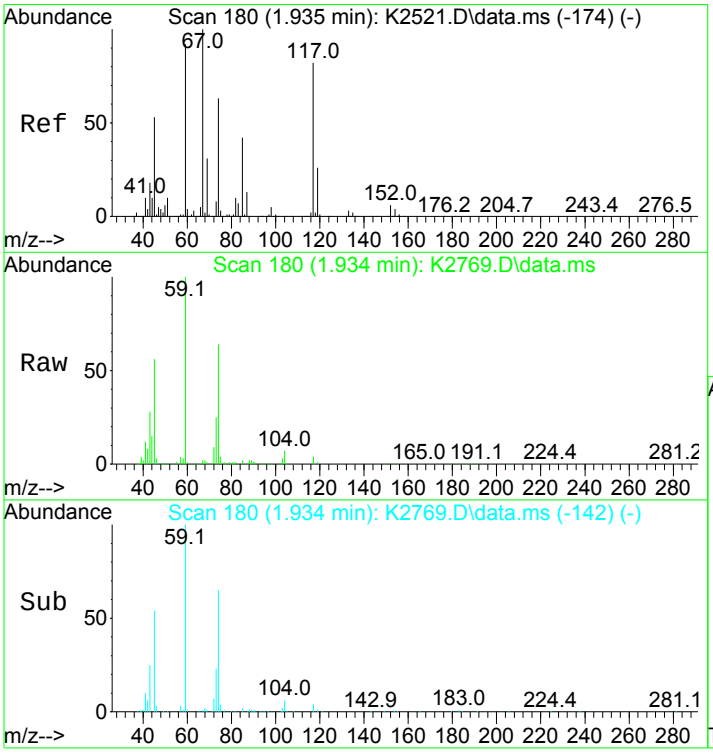


#5
Vinyl Chloride
Concen: 15.11 ug/L
RT: 1.258 min Scan# 69
Delta R.T. -0.006 min
Lab File: K2769.D
Acq: 10 Jun 2024 09:10 pm

Tgt Ion: 62 Resp: 65649

Ion	Ratio	Lower	Upper
62	100		
64	33.1	11.4	51.4

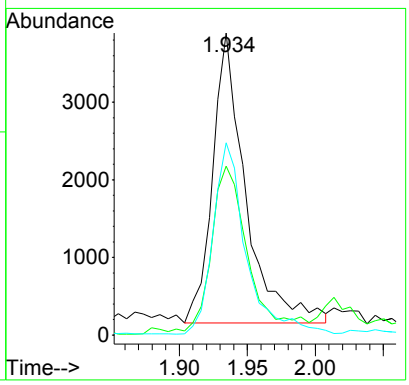


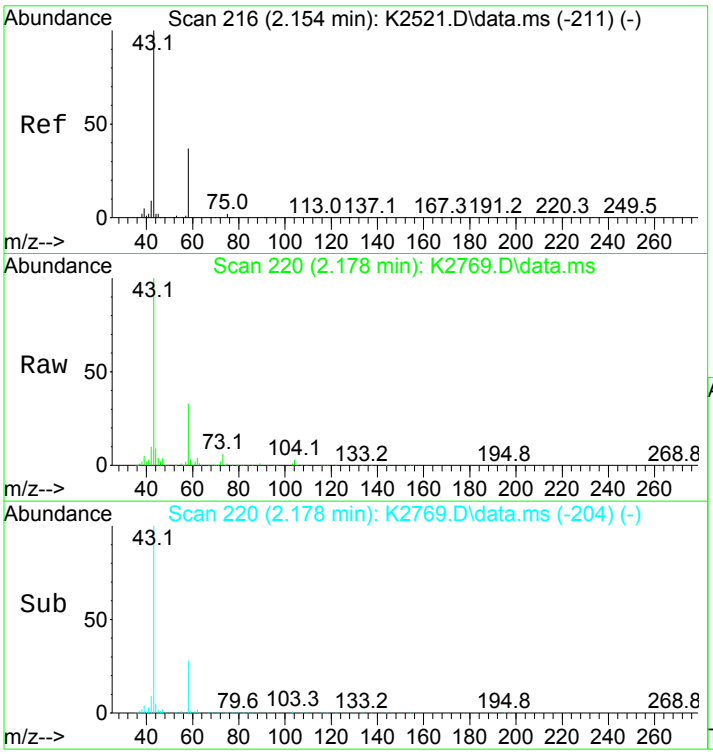


#10
Diethyl Ether
Concen: 2.06 ug/L
RT: 1.934 min Scan# 180
Delta R.T. -0.000 min
Lab File: K2769.D
Acq: 10 Jun 2024 09:10 pm

Tgt Ion: 59 Resp: 6304

Ion	Ratio	Lower	Upper
59	100		
45	55.9	37.0	77.0
74	63.6	47.9	87.9

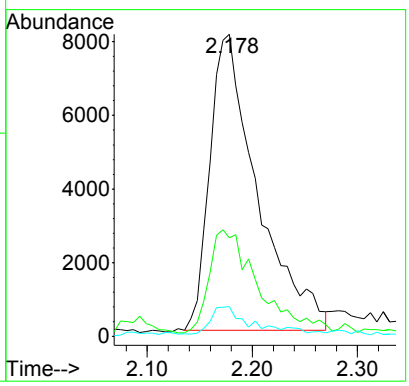


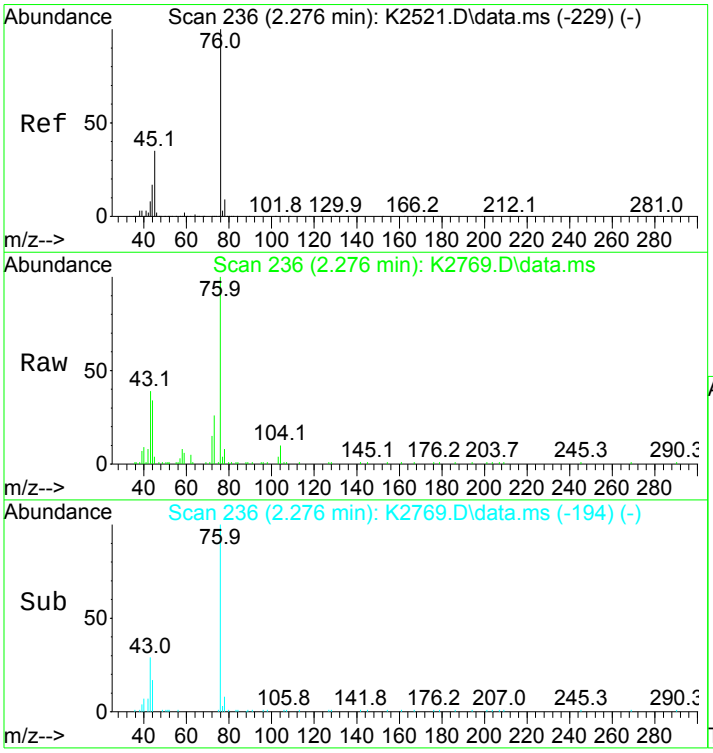


#16
Acetone
Concen: 21.44 ug/L
RT: 2.178 min Scan# 220
Delta R.T. 0.024 min
Lab File: K2769.D
Acq: 10 Jun 2024 09:10 pm

Tgt Ion: 43 Resp: 25318

Ion	Ratio	Lower	Upper
43	100		
58	32.6	16.2	56.2
42	9.8	0.0	28.5

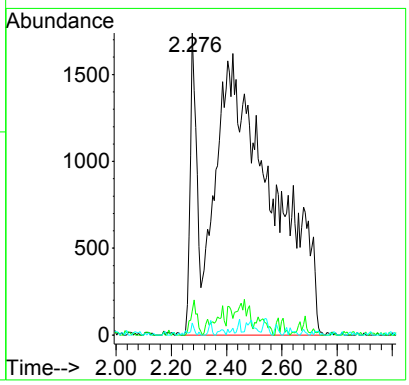


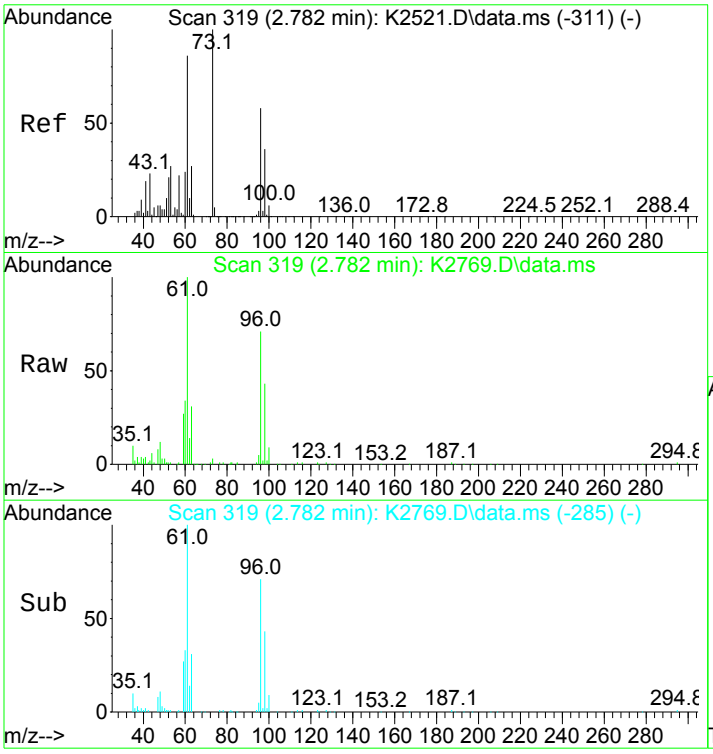


#19
Carbon Disulfide
Concen: 2.79 ug/L m
RT: 2.276 min Scan# 236
Delta R.T. -0.000 min
Lab File: K2769.D
Acq: 10 Jun 2024 09:10 pm

Tgt Ion: 76 Resp: 25550

Ion	Ratio	Lower	Upper
76	100		
78	7.9	0.0	28.9
77	4.0	0.0	22.8

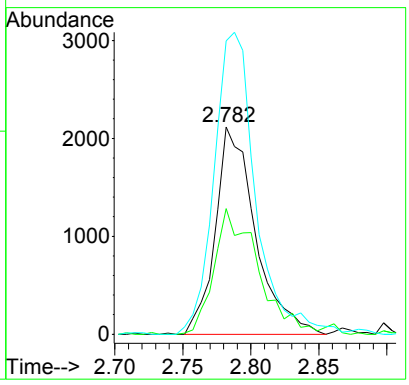


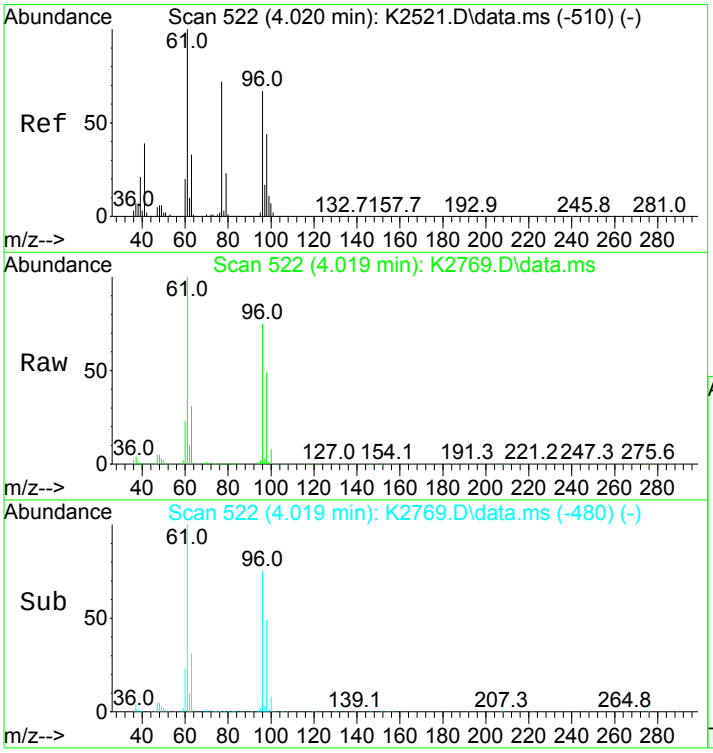


#27
trans-1,2-Dichloroethene
Concen: 1.24 ug/L
RT: 2.782 min Scan# 319
Delta R.T. -0.000 min
Lab File: K2769.D
Acq: 10 Jun 2024 09:10 pm

Tgt Ion: 96 Resp: 4349

Ion	Ratio	Lower	Upper
96	100		
98	60.6	42.5	82.5
61	141.5	128.4	168.4

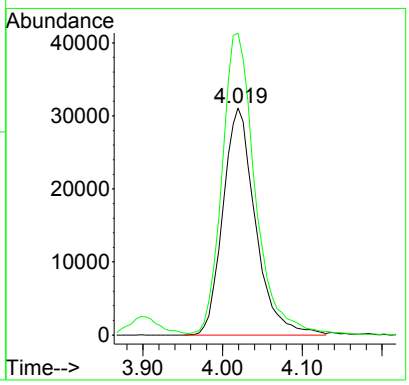


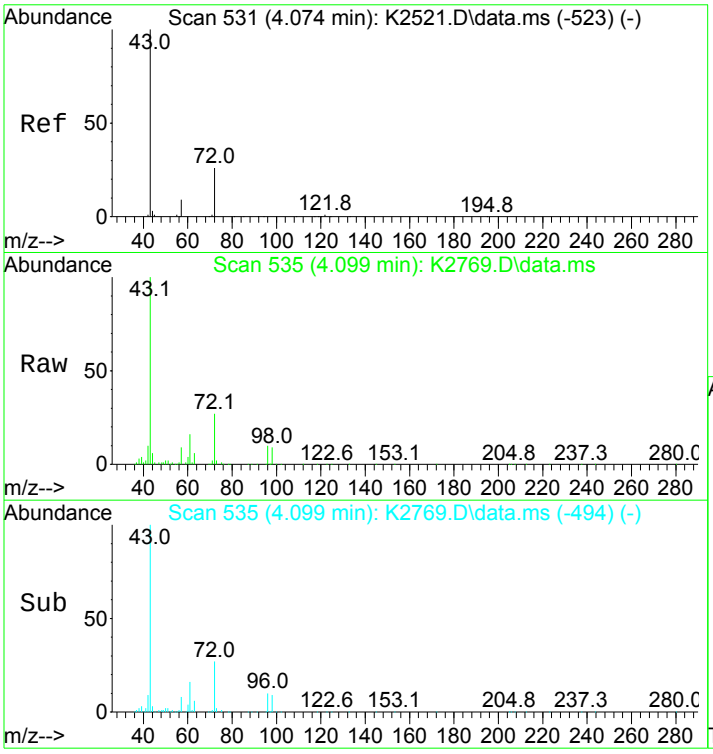


#34
cis-1,2-Dichloroethene
Concen: 22.12 ug/L
RT: 4.019 min Scan# 522
Delta R.T. -0.000 min
Lab File: K2769.D
Acq: 10 Jun 2024 09:10 pm

Tgt Ion: 96 Resp: 88058

Ion	Ratio	Lower	Upper
96	100		
61	133.0	129.5	169.5

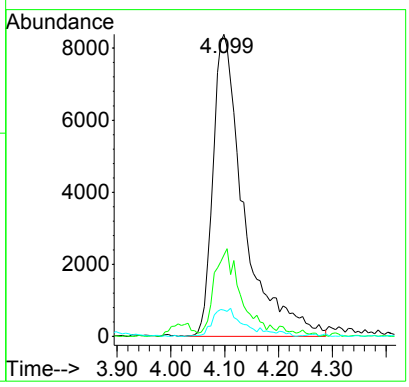


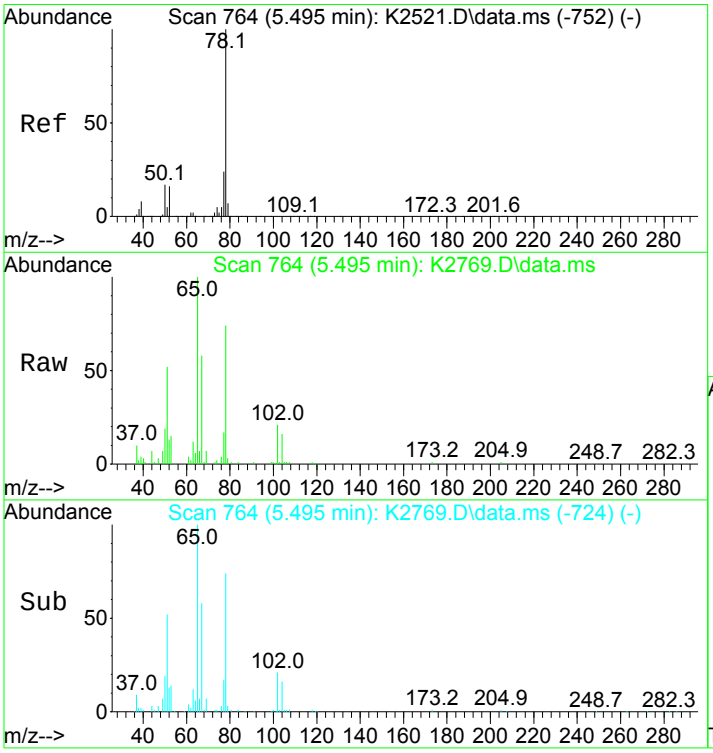


#35
2-Butanone
Concen: 20.79 ug/L
RT: 4.099 min Scan# 535
Delta R.T. 0.024 min
Lab File: K2769.D
Acq: 10 Jun 2024 09:10 pm

Tgt Ion: 43 Resp: 33625

Ion	Ratio	Lower	Upper
43	100		
72	26.9	8.0	48.0
57	8.6	0.0	30.7

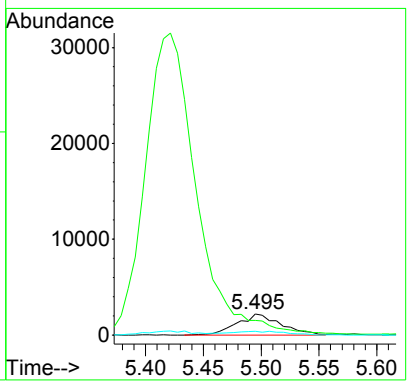


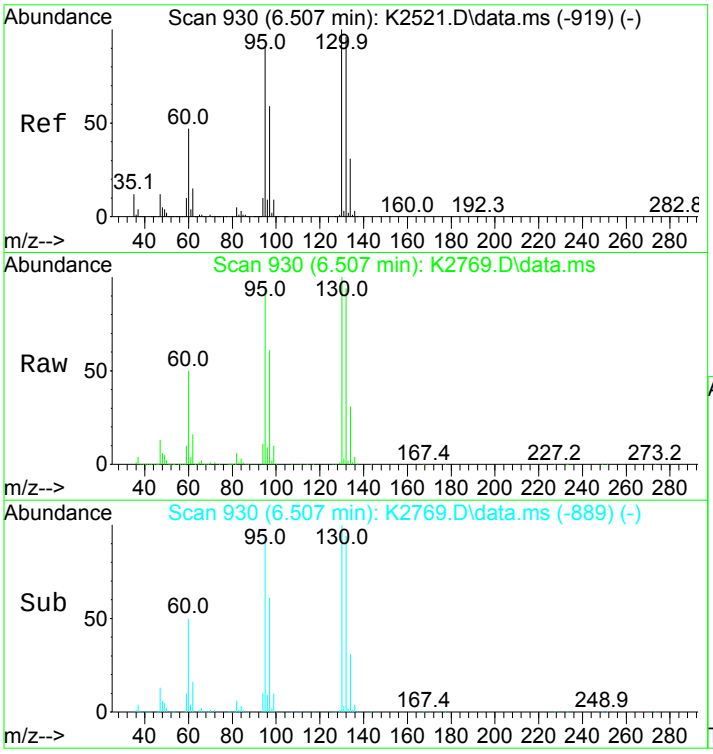


#49
Benzene
Concen: 0.44 ug/L
RT: 5.495 min Scan# 764
Delta R.T. -0.000 min
Lab File: K2769.D
Acq: 10 Jun 2024 09:10 pm

Tgt Ion: 78 Resp: 5732

Ion	Ratio	Lower	Upper
78	100		
51	70.2	0.0	38.8#
52	18.0	0.0	36.4

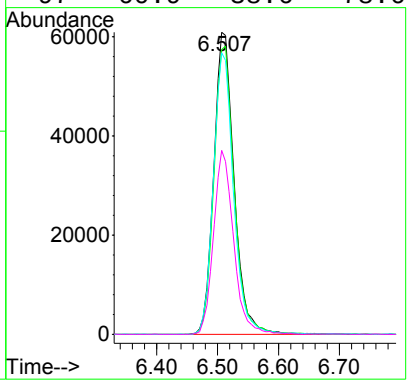


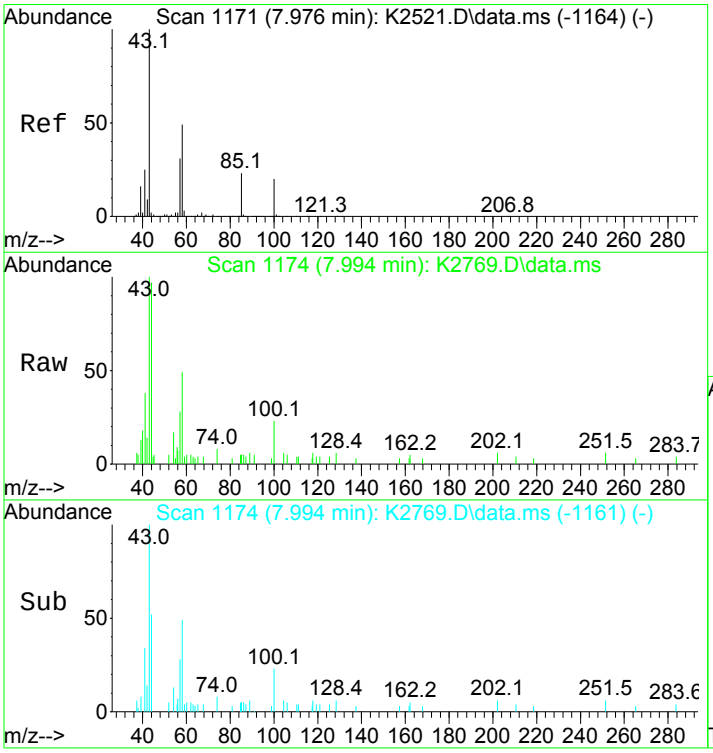


#54
Trichloroethene
Concen: 33.25 ug/L
RT: 6.507 min Scan# 930
Delta R.T. -0.000 min
Lab File: K2769.D
Acq: 10 Jun 2024 09:10 pm

Tgt Ion:130 Resp: 141734

Ion	Ratio	Lower	Upper
130	100		
132	94.3	76.3	116.3
95	93.3	71.1	111.1
97	60.9	38.6	78.6

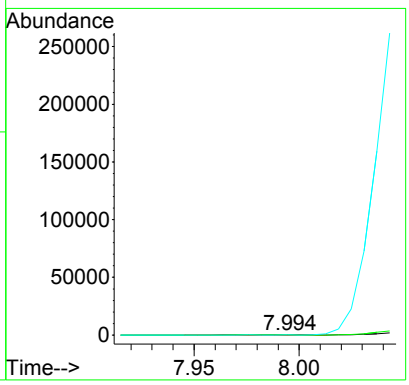


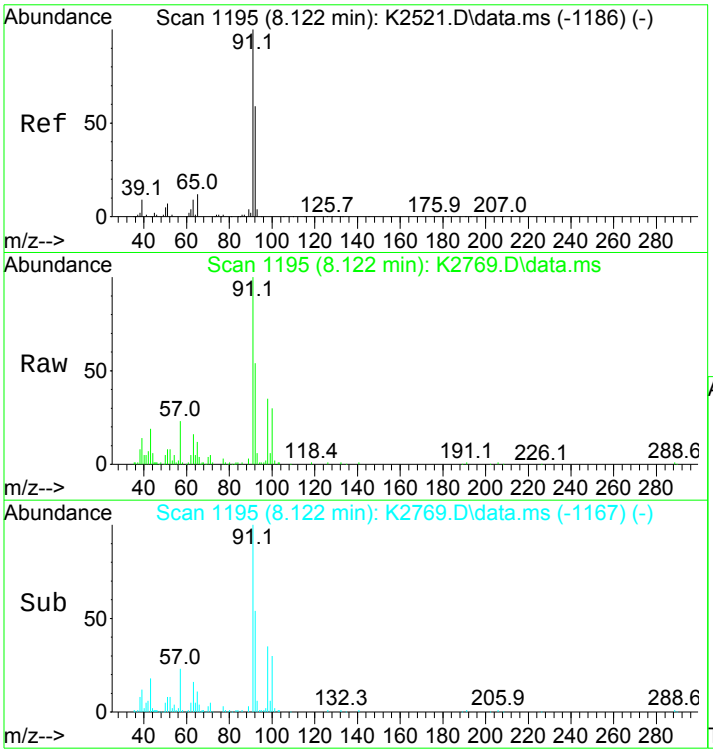


#64
4-Methyl-2-pentanone
Concen: 0.21 ug/L
RT: 7.994 min Scan# 1174
Delta R.T. 0.018 min
Lab File: K2769.D
Acq: 10 Jun 2024 09:10 pm

Tgt Ion: 43 Resp: 735

Ion	Ratio	Lower	Upper
43	100		
58	49.4	28.5	68.5
100	23.1	0.2	40.2

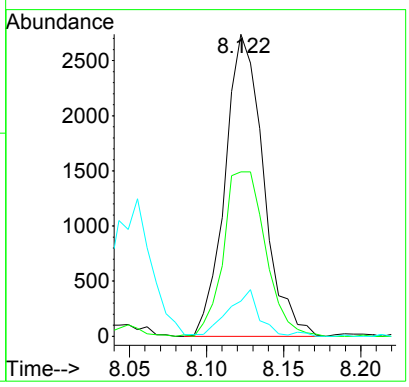


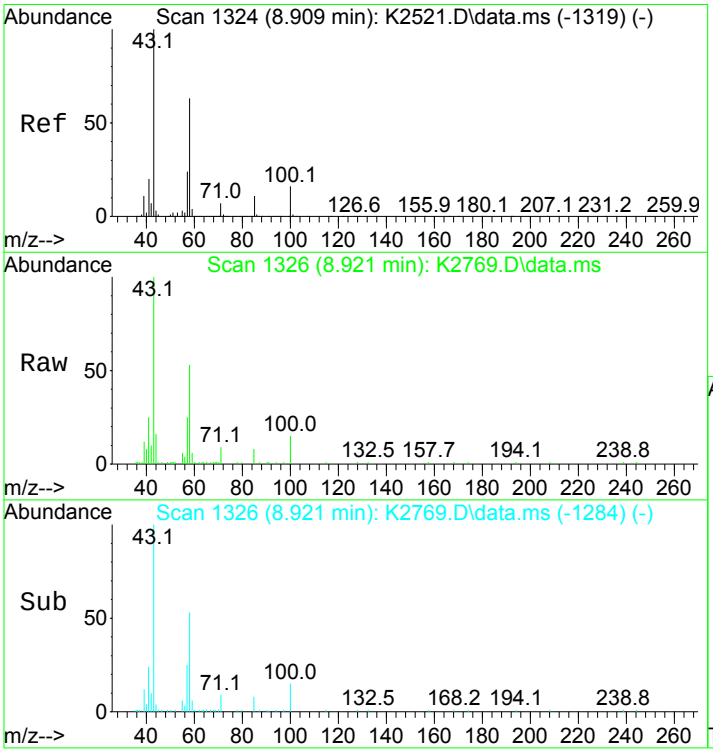


#66
Toluene
Concen: 0.31 ug/L
RT: 8.122 min Scan# 1195
Delta R.T. -0.000 min
Lab File: K2769.D
Acq: 10 Jun 2024 09:10 pm

Tgt Ion: 91 Resp: 4740

Ion	Ratio	Lower	Upper
91	100		
92	54.4	39.0	79.0
65	11.6	0.0	32.6

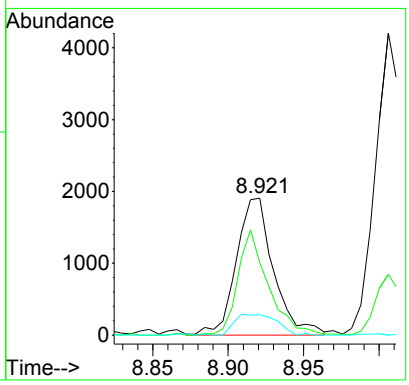


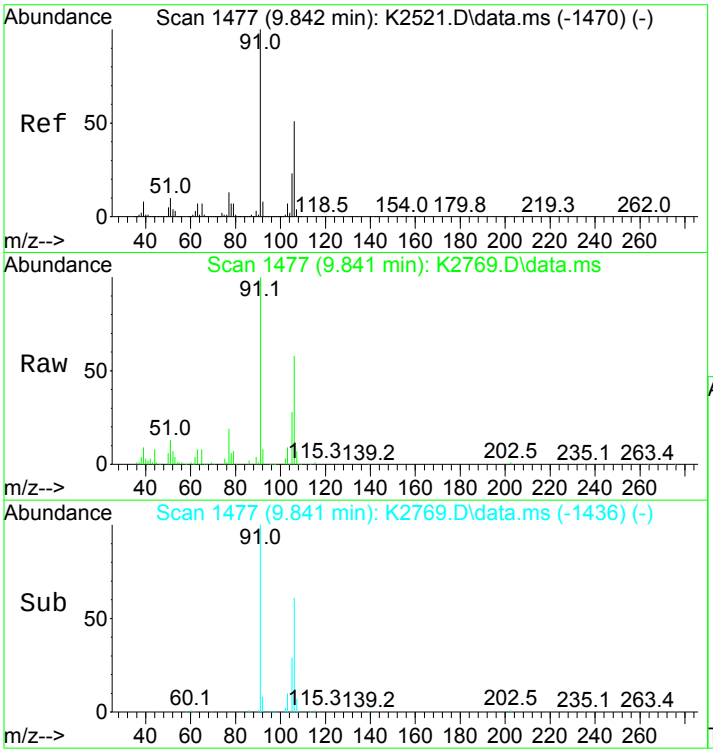


#73
2-Hexanone
Concen: 1.28 ug/L m
RT: 8.921 min Scan# 1326
Delta R.T. 0.012 min
Lab File: K2769.D
Acq: 10 Jun 2024 09:10 pm

Tgt Ion: 43 Resp: 3274

Ion	Ratio	Lower	Upper
43	100		
58	52.8	43.2	83.2
100	14.9	0.0	35.7

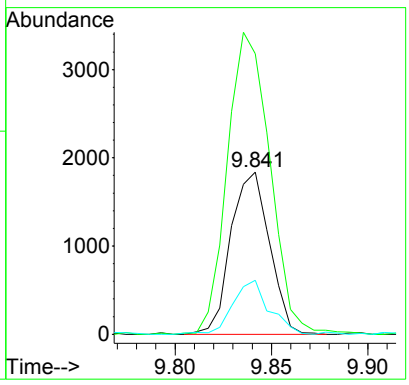


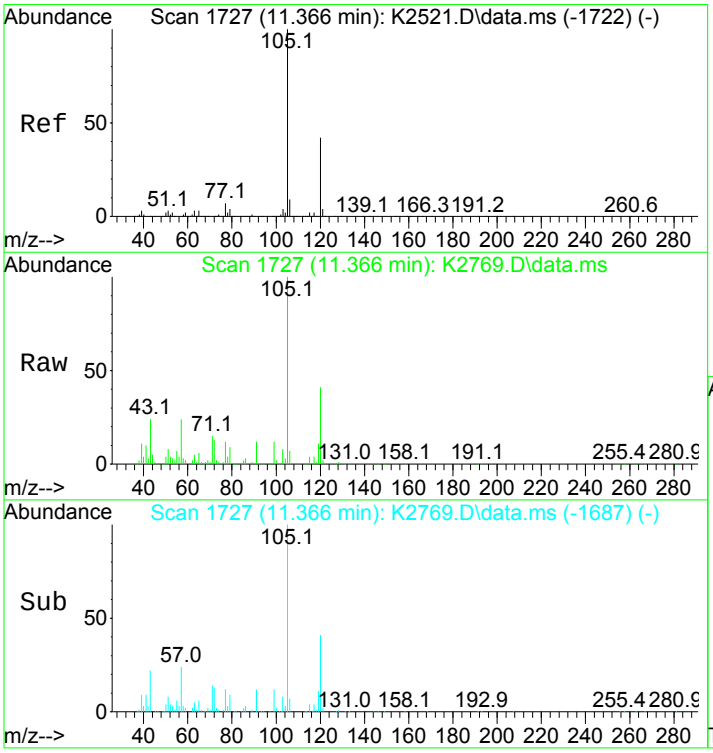


#83
(m+p)Xylene
Concen: 0.37 ug/L
RT: 9.841 min Scan# 1477
Delta R.T. -0.000 min
Lab File: K2769.D
Acq: 10 Jun 2024 09:10 pm

Tgt Ion:106 Resp: 2567

Ion	Ratio	Lower	Upper
106	100		
91	173.0	175.3	215.3#
77	33.4	4.9	44.9

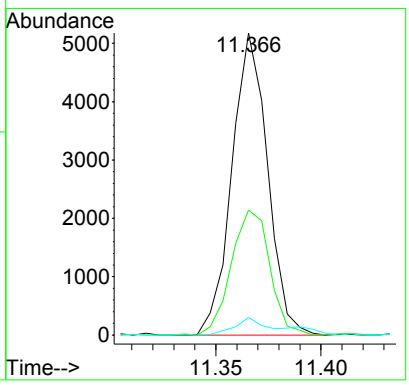




#101
1,2,4-Trimethylbenzene
Concen: 0.40 ug/L
RT: 11.366 min Scan# 1727
Delta R.T. -0.000 min
Lab File: K2769.D
Acq: 10 Jun 2024 09:10 pm

Tgt Ion:105 Resp: 6072

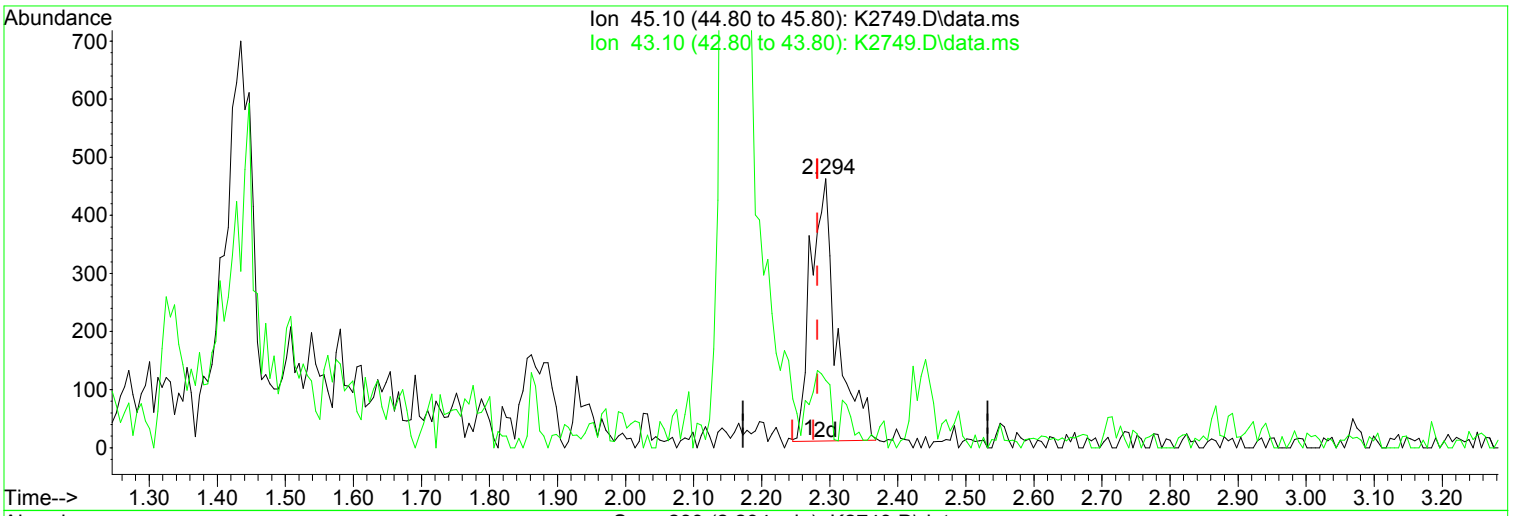
Ion	Ratio	Lower	Upper
105	100		
120	41.4	26.9	66.9
65	5.8	0.0	24.9

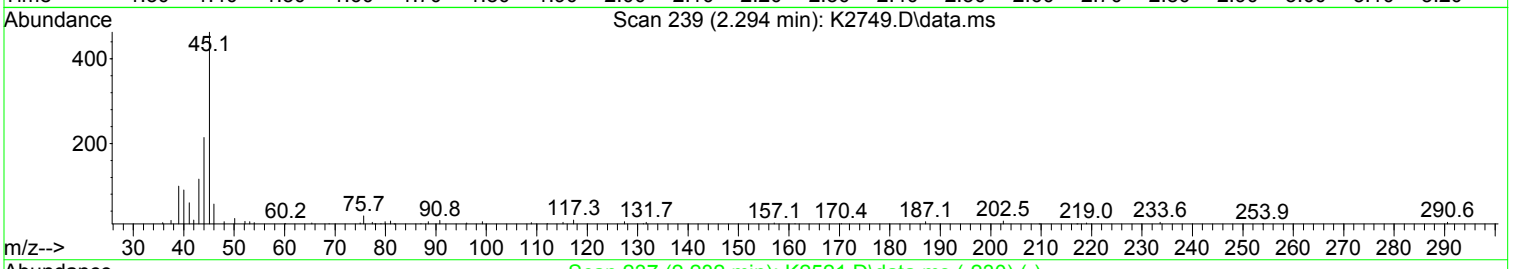


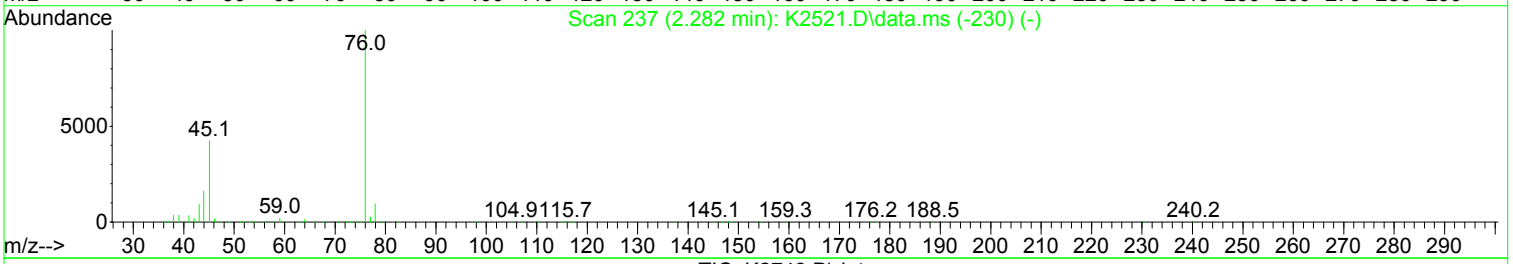
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2749.D
Acq On : 10 Jun 2024 01:30 pm
Operator : K.Ruest
Sample : R2404674-014
Misc : CIVIL 8260 T4
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 10 14:23:18 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2749.D\data.ms

(17) 2-Propanol

2.294min (+ 0.012) 4.47 ug/L m

response 1189

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	22.40	25.05
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

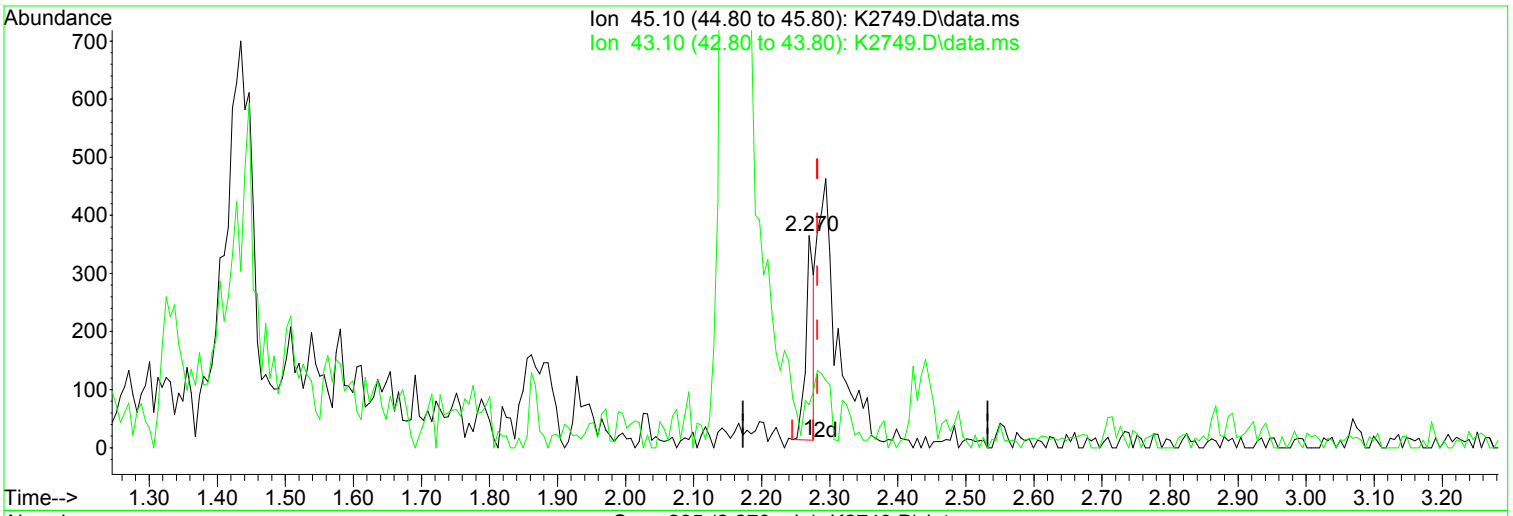
Poor integration.

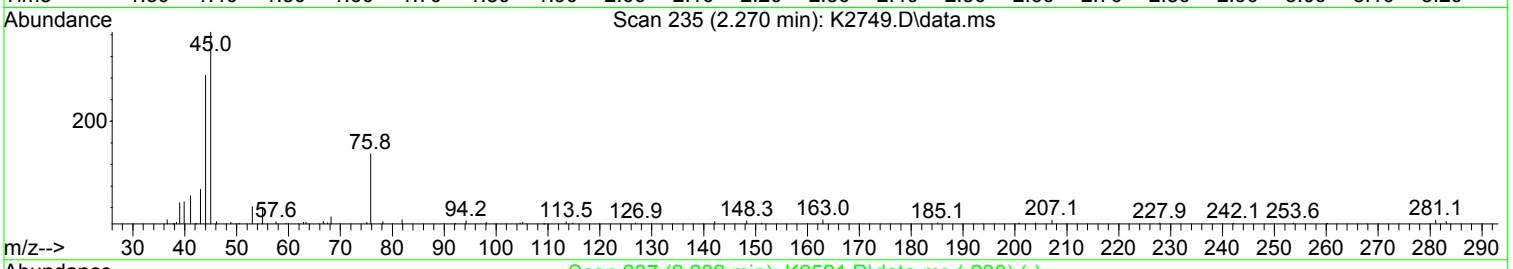
06/13/24

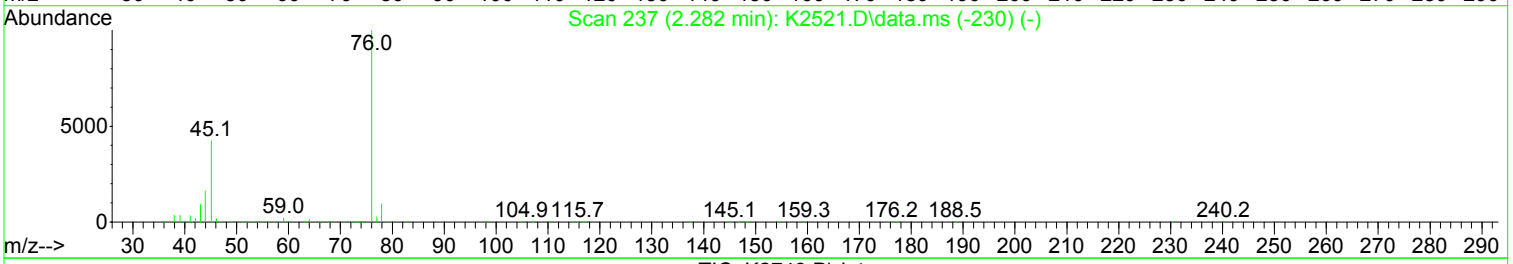
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2749.D
Acq On : 10 Jun 2024 01:30 pm
Operator : K.Ruest
Sample : R2404674-014
Misc : CIVIL 8260 T4
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 10 14:23:18 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2749.D\data.ms

(17) 2-Propanol

2.270min (-0.012) 1.11 ug/L

response 295

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	22.40	20.27
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

06/13/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2749.D
Acq On : 10 Jun 2024 01:30 pm
Operator : K.Ruest
Sample : R2404674-014
Misc : CIVIL 8260 T4
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 10 14:23:18 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

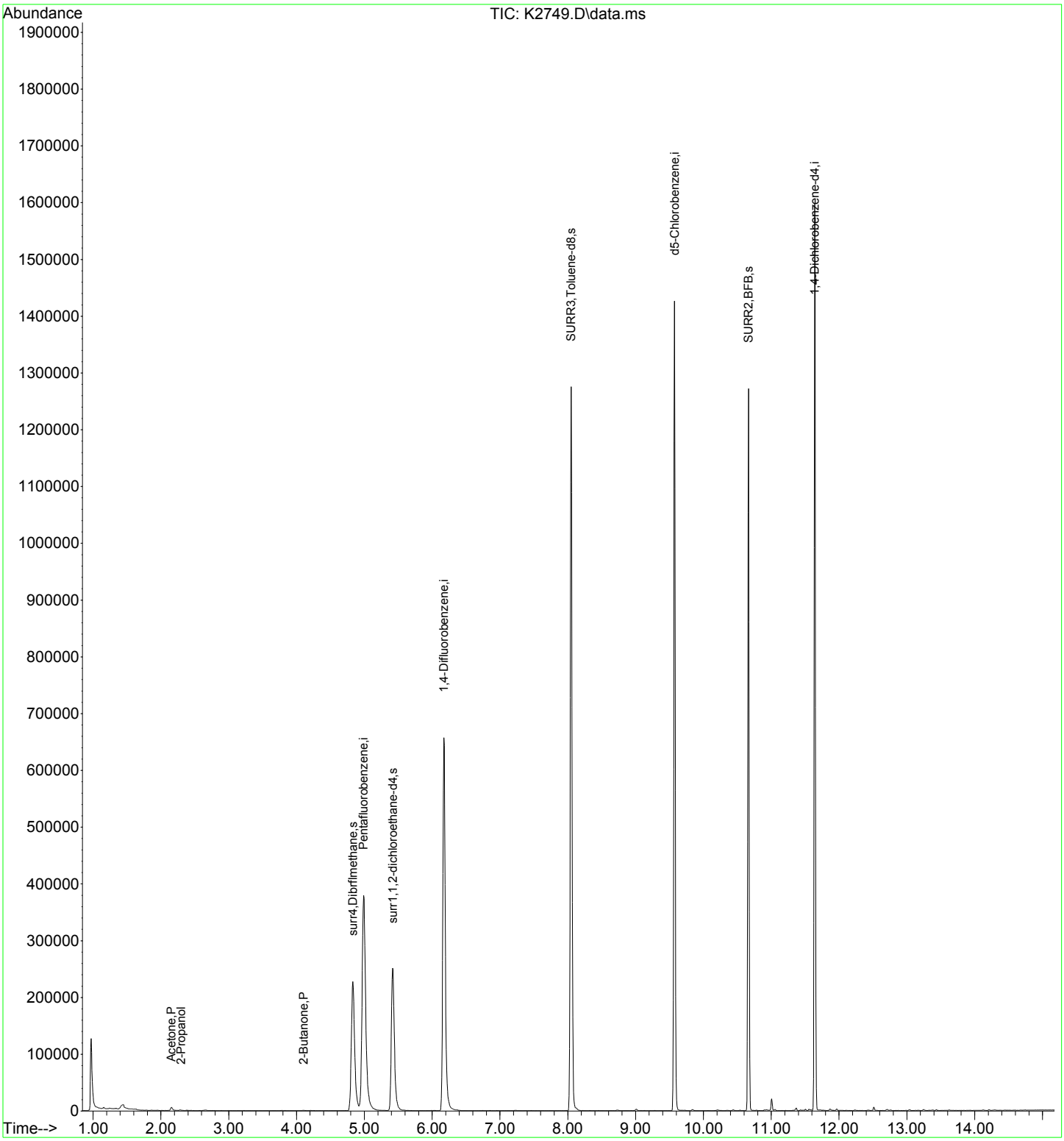
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.989	168	462898	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.172	114	727130	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.573	117	651405	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	11.640	152	304523	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.830	113	237130	48.40	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 96.80%			
48) surr1,1,2-dichloroetha...	5.422	65	296514	49.94	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 99.88%			
65) SURR3,Toluene-d8	8.049	98	837451	49.33	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 98.66%			
70) SURR2,BFB	10.665	95	320997	50.30	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.60%			
Target Compounds						Qvalue
4) Chloromethane	1.203	50	338	Below Cal		73
16) Acetone	2.154	43	7371	3.889	ug/L	97
17) 2-Propanol	2.294	45	1189m	4.474	ug/L	
35) 2-Butanone	4.105	43	1119	0.648	ug/L	90

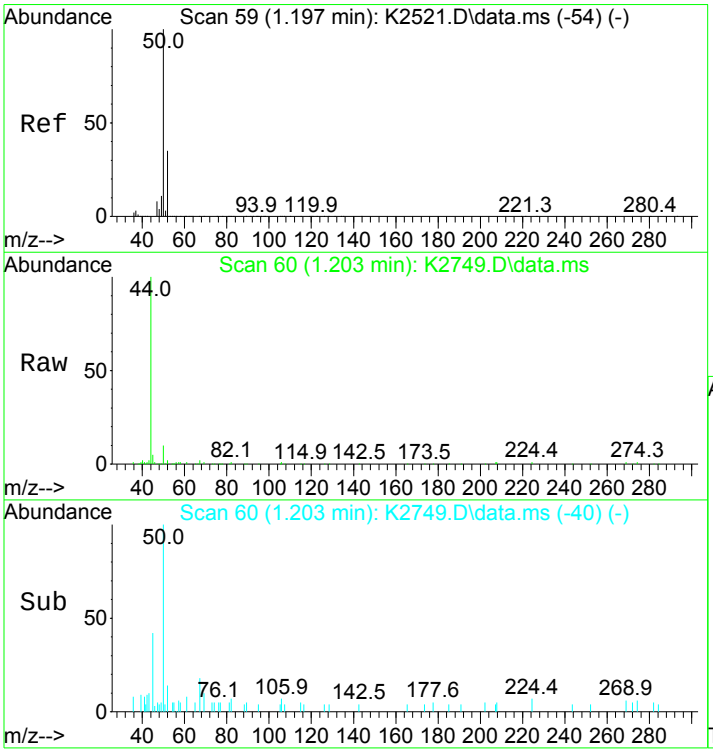
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2749.D
Acq On : 10 Jun 2024 01:30 pm
Operator : K.Ruest
Sample : R2404674-014
Misc : CIVIL 8260 T4
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 10 14:23:18 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

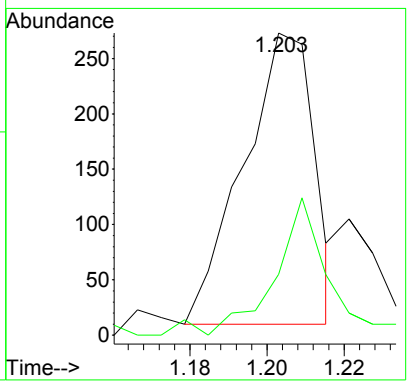


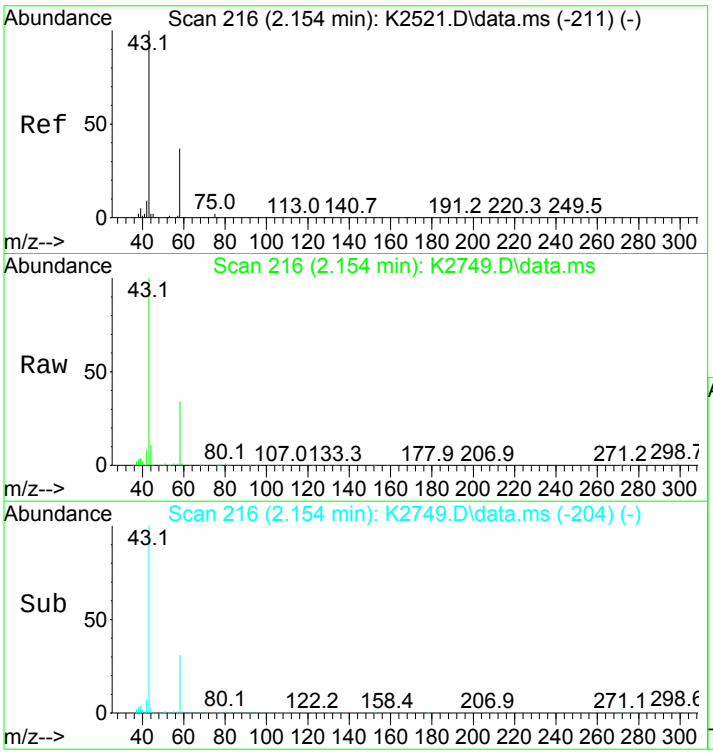


#4
Chloromethane
Concen: Below Cal
RT: 1.203 min Scan# 60
Delta R.T. 0.007 min
Lab File: K2749.D
Acq: 10 Jun 2024 01:30 pm

Tgt Ion: 50 Resp: 338

Ion	Ratio	Lower	Upper
50	100		
52	19.4	14.7	54.7

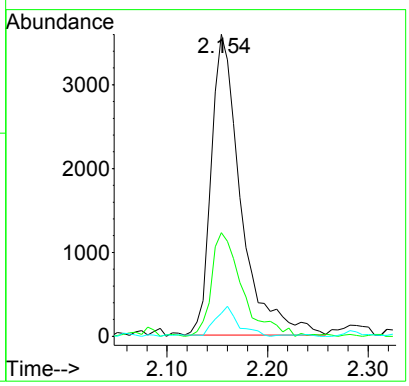


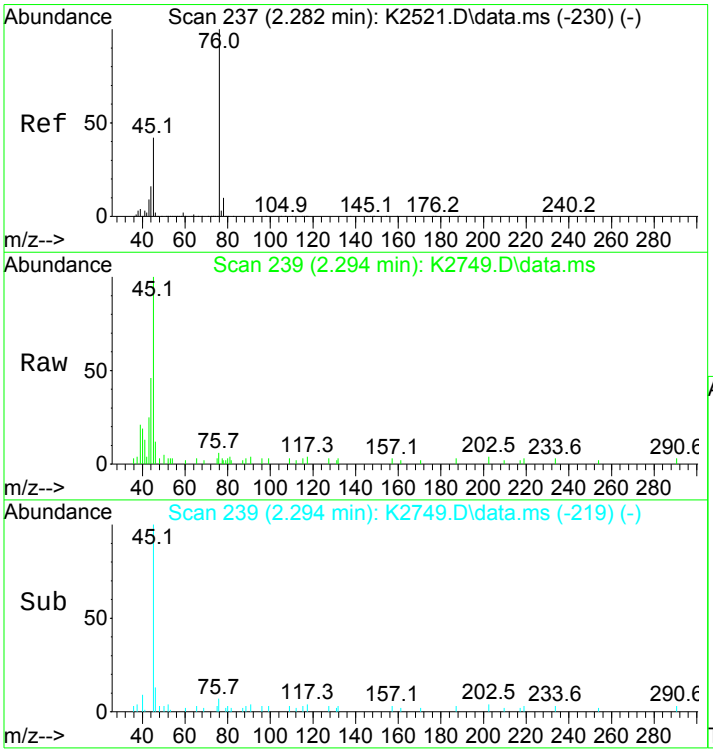


#16
Acetone
Concen: 3.89 ug/L
RT: 2.154 min Scan# 216
Delta R.T. 0.000 min
Lab File: K2749.D
Acq: 10 Jun 2024 01:30 pm

Tgt Ion: 43 Resp: 7371

Ion	Ratio	Lower	Upper
43	100		
58	34.3	16.2	56.2
42	7.6	0.0	28.5

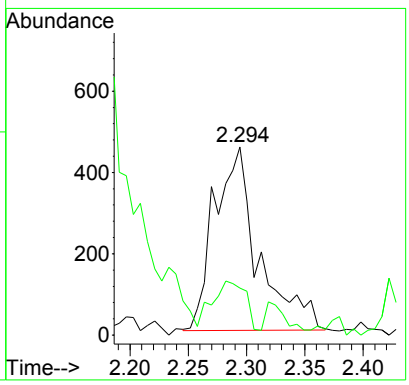


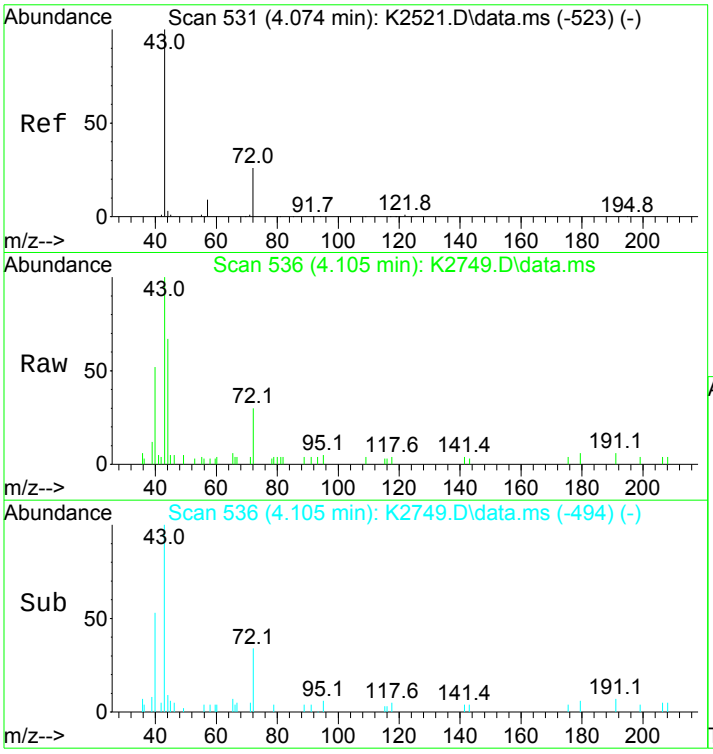


#17
2-Propanol
Concen: 4.47 ug/L m
RT: 2.294 min Scan# 239
Delta R.T. 0.012 min
Lab File: K2749.D
Acq: 10 Jun 2024 01:30 pm

Tgt Ion: 45 Resp: 1189

Ion	Ratio	Lower	Upper
45	100		
43	25.1	2.4	42.4

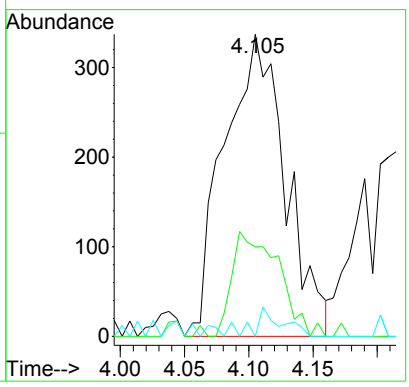




#35
2-Butanone
Concen: 0.65 ug/L
RT: 4.105 min Scan# 536
Delta R.T. 0.030 min
Lab File: K2749.D
Acq: 10 Jun 2024 01:30 pm

Tgt Ion: 43 Resp: 1119

Ion	Ratio	Lower	Upper
43	100		
72	29.7	8.0	48.0
57	0.0	0.0	30.7



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2750.D
Acq On : 10 Jun 2024 01:53 pm
Operator : K.Ruest
Sample : R2404674-015
Misc : CIVIL 8260 T4
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 10 14:23:33 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

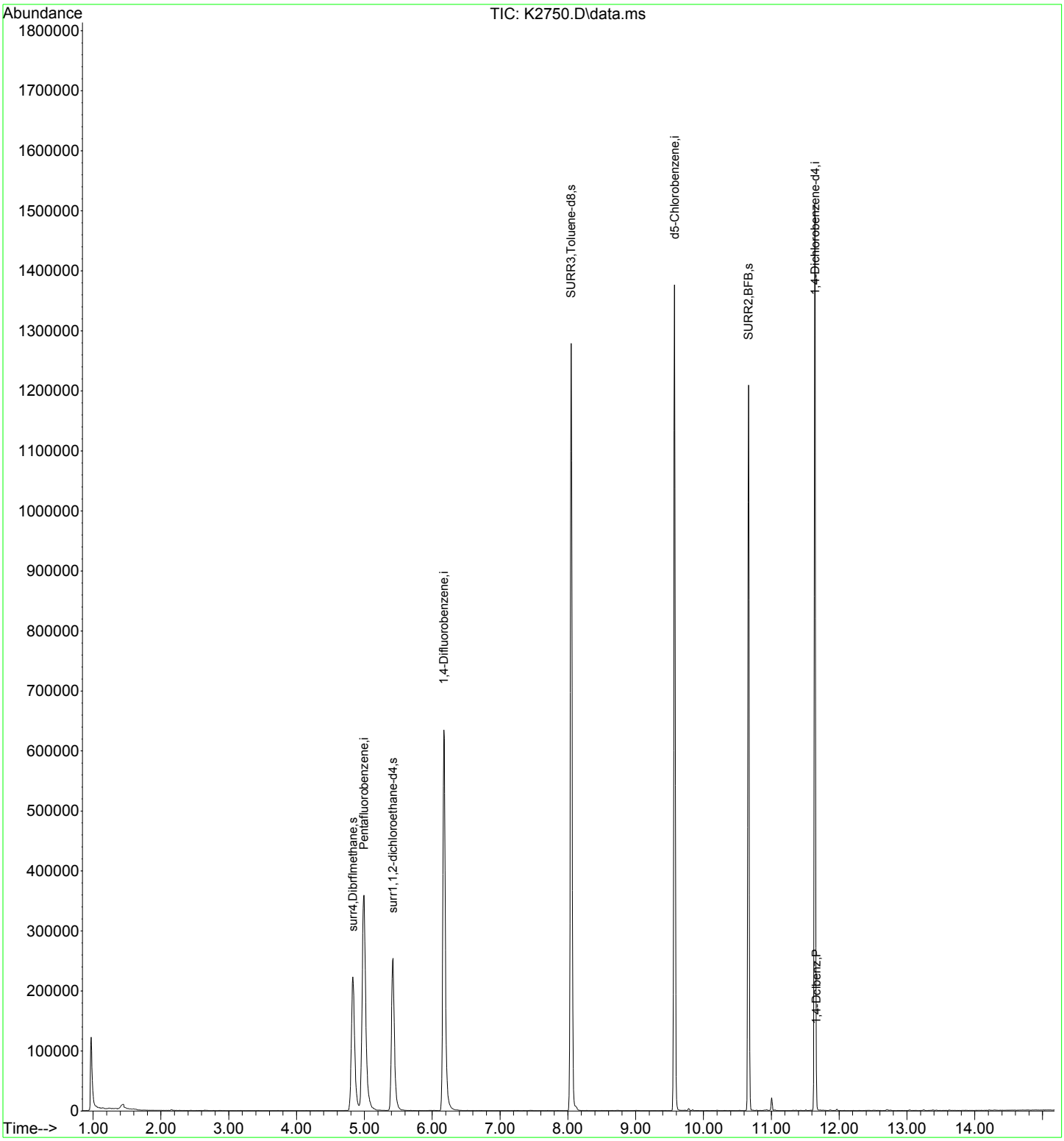
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.995	168	445114	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.171	114	704179	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.573	117	629172	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	11.646	152	297067	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.830	113	231495	48.79	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 97.58%			
48) surr1,1,2-dichloroetha...	5.422	65	290910	50.60	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 101.20%			
65) SURR3,Toluene-d8	8.049	98	825051	50.18	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 100.36%			
70) SURR2,BFB	10.665	95	316030	51.14	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.28%			
Target Compounds						Qvalue
16) Acetone	2.154	43	1675	Below Cal		76
106) 1,4-Dclbenz	11.664	146	7465	0.839	ug/L	94

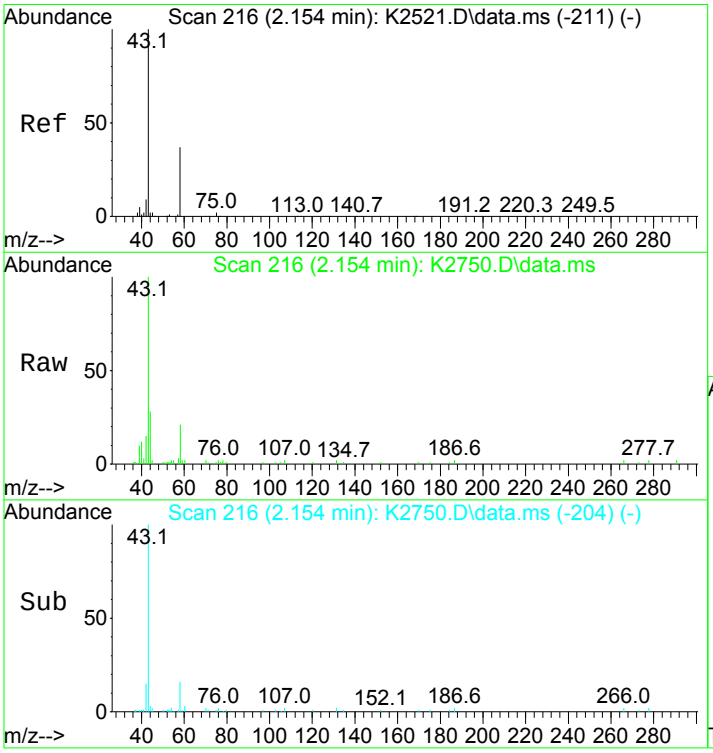
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2750.D
Acq On : 10 Jun 2024 01:53 pm
Operator : K.Ruest
Sample : R2404674-015
Misc : CIVIL 8260 T4
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 10 14:23:33 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

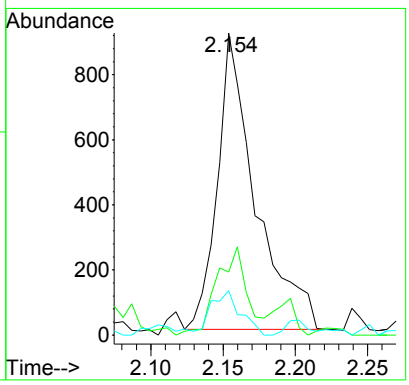


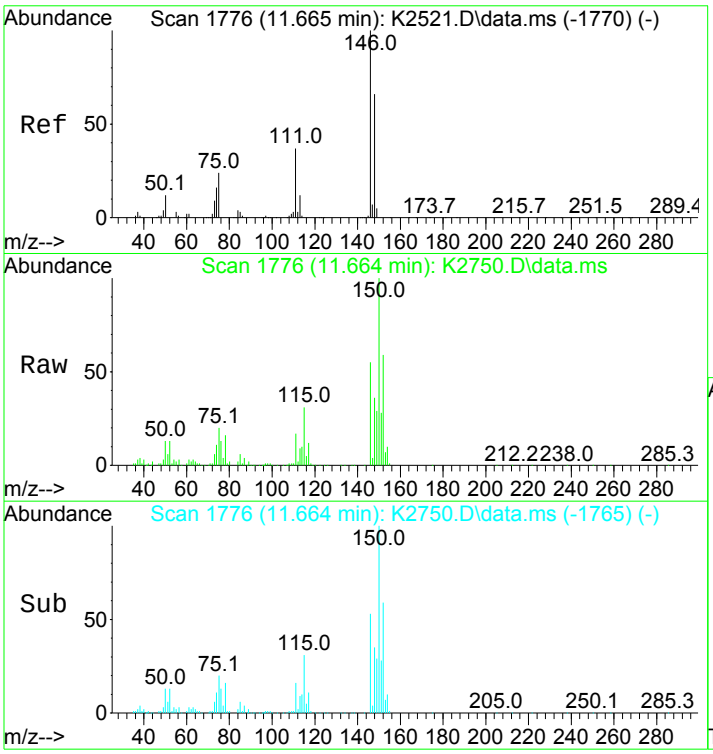


#16
Acetone
Concen: Below Cal
RT: 2.154 min Scan# 216
Delta R.T. -0.000 min
Lab File: K2750.D
Acq: 10 Jun 2024 01:53 pm

Tgt Ion: 43 Resp: 1675

Ion	Ratio	Lower	Upper
43	100		
58	20.8	16.2	56.2
42	14.7	0.0	28.5

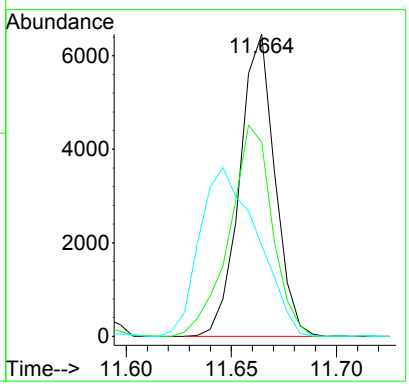




#106
1,4-Dclbenz
Concen: 0.84 ug/L
RT: 11.664 min Scan# 1776
Delta R.T. -0.000 min
Lab File: K2750.D
Acq: 10 Jun 2024 01:53 pm

Tgt Ion:146 Resp: 7465

Ion	Ratio	Lower	Upper
146	100		
148	64.3	45.8	85.8
111	30.0	17.5	57.5

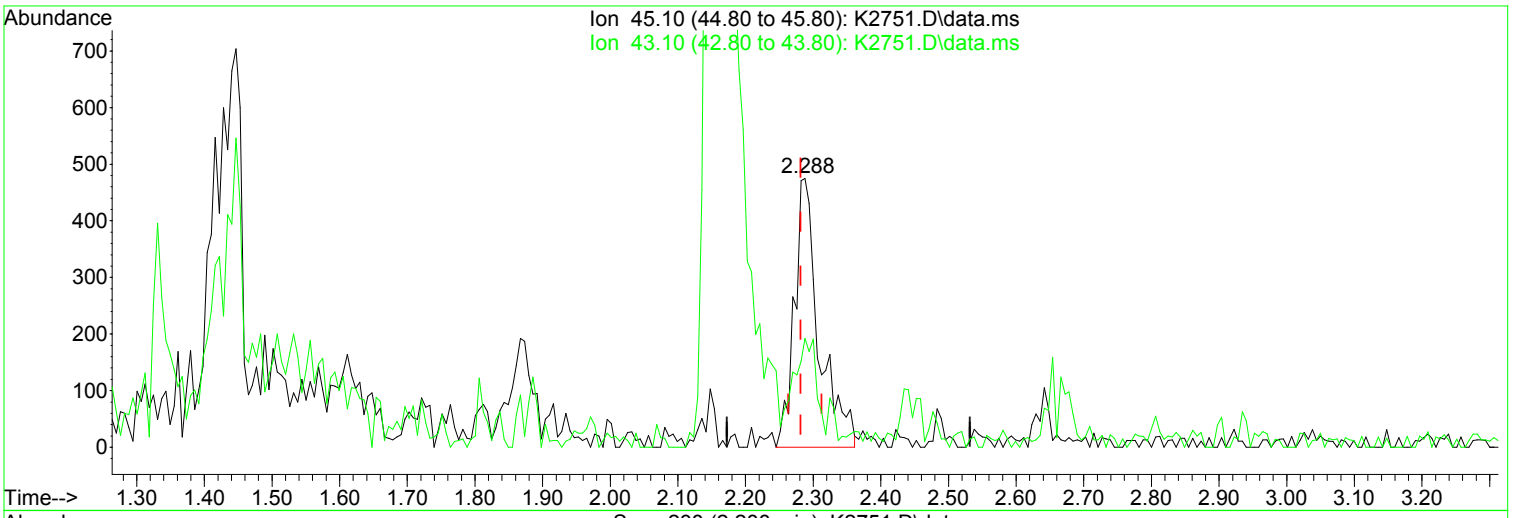


1st 06/14/24
2nd 06/14/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2751.D
Acq On : 10 Jun 2024 02:16 pm
Operator : K.Ruest
Sample : R2404674-016
Misc : CIVIL 8260 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 10 15:12:36 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration



TIC: K2751.D\data.ms

(17) 2-Propanol

2.288min (+ 0.006) 4.63 ug/L m

response 1205

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	22.40	40.42
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

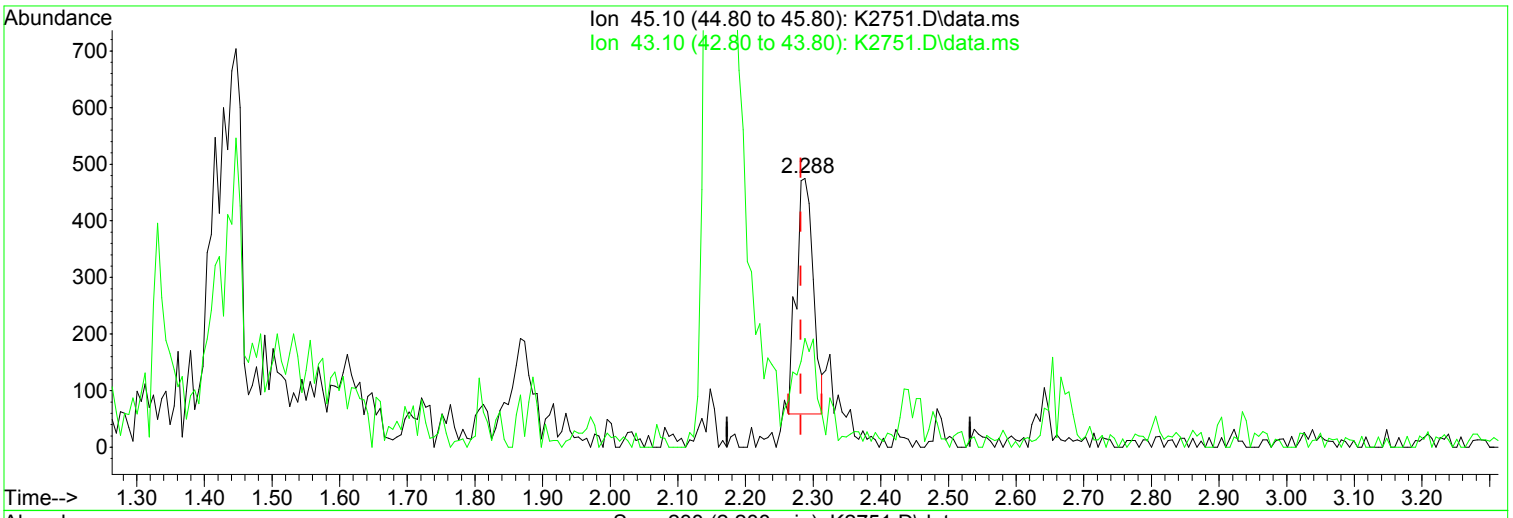
Poor integration.

06/14/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2751.D
Acq On : 10 Jun 2024 02:16 pm
Operator : K.Ruest
Sample : R2404674-016
Misc : CIVIL 8260 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 10 15:12:36 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration



TIC: K2751.D\data.ms

(17) 2-Propanol

2.288min (+ 0.006) 2.80 ug/L

response 730

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	22.40	40.42
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

06/14/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2751.D
Acq On : 10 Jun 2024 02:16 pm
Operator : K.Ruest
Sample : R2404674-016
Misc : CIVIL 8260 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 10 15:12:36 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

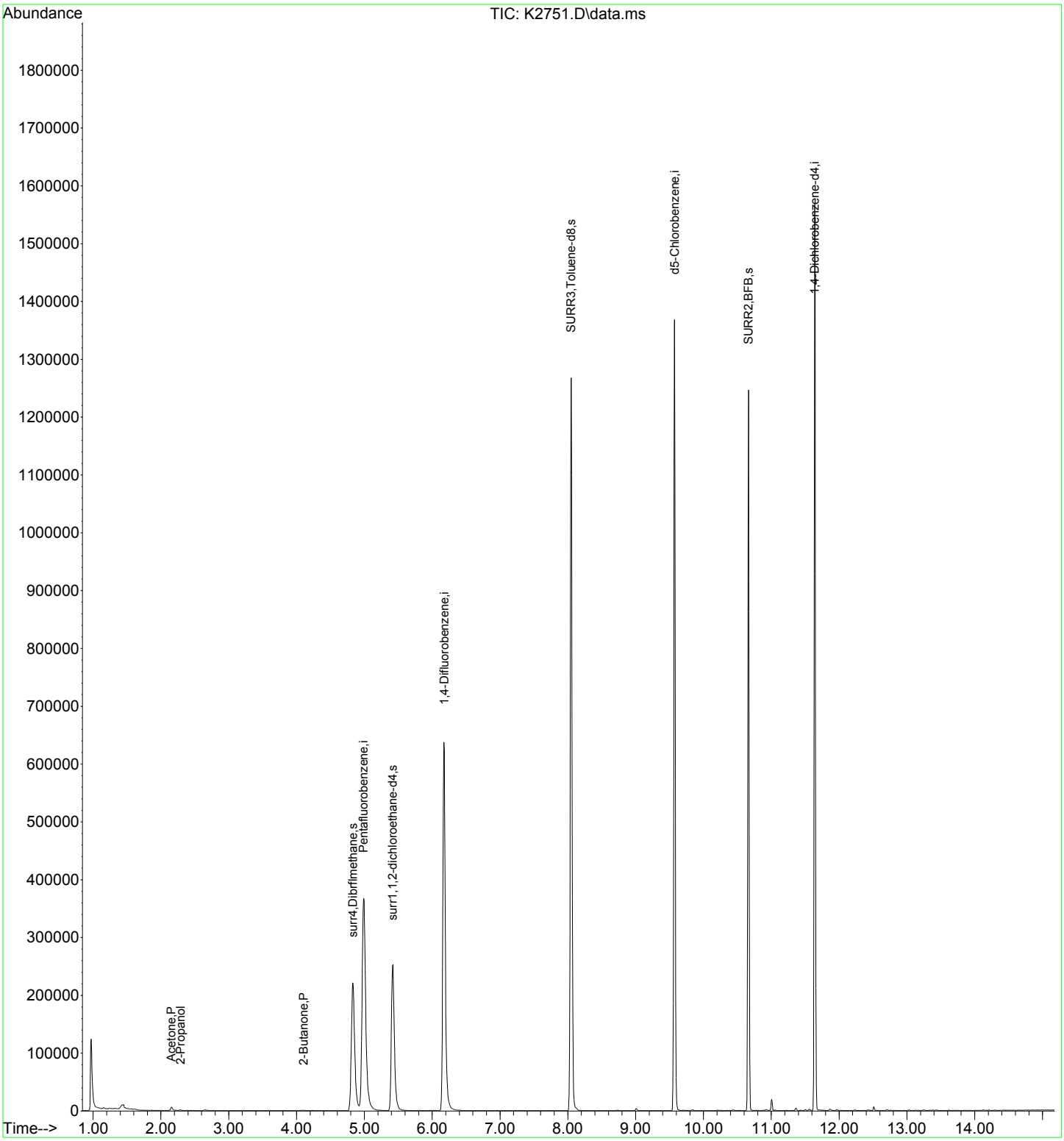
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.989	168	453520	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.178	114	704043	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.573	117	632246	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	11.640	152	299368	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.830	113	233737	49.27	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 98.54%			
48) surr1,1,2-dichloroetha...	5.415	65	292900	50.95	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 101.90%			
65) SURR3,Toluene-d8	8.049	98	836884	50.91	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.82%			
70) SURR2,BFB	10.665	95	315892	51.12	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.24%			
Target Compounds						Qvalue
16) Acetone	2.154	43	7902	4.517	ug/L	88
17) 2-Propanol	2.288	45	1205m	4.628	ug/L	
35) 2-Butanone	4.105	43	1181	0.698	ug/L	80

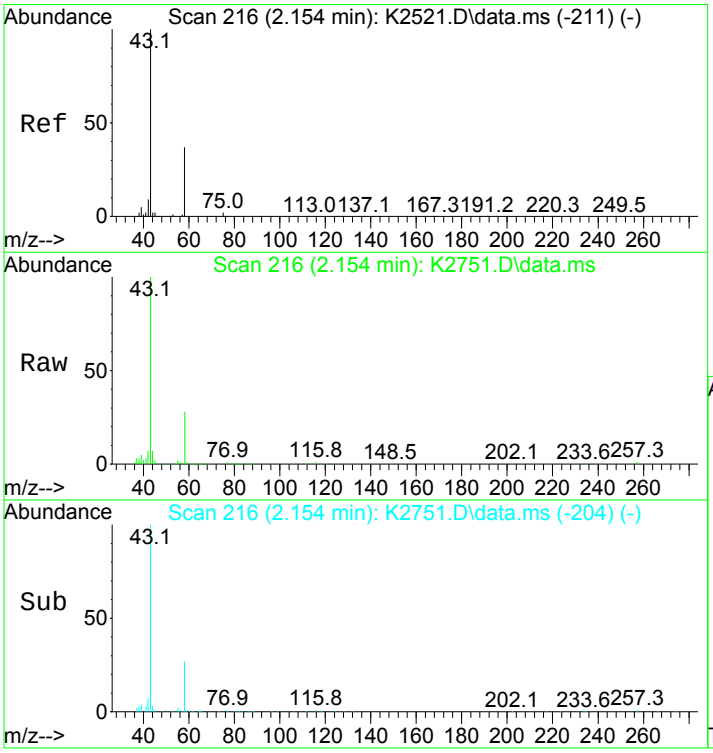
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2751.D
Acq On : 10 Jun 2024 02:16 pm
Operator : K.Ruest
Sample : R2404674-016
Misc : CIVIL 8260 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 10 15:12:36 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

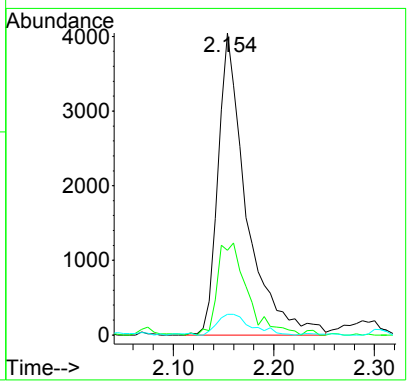


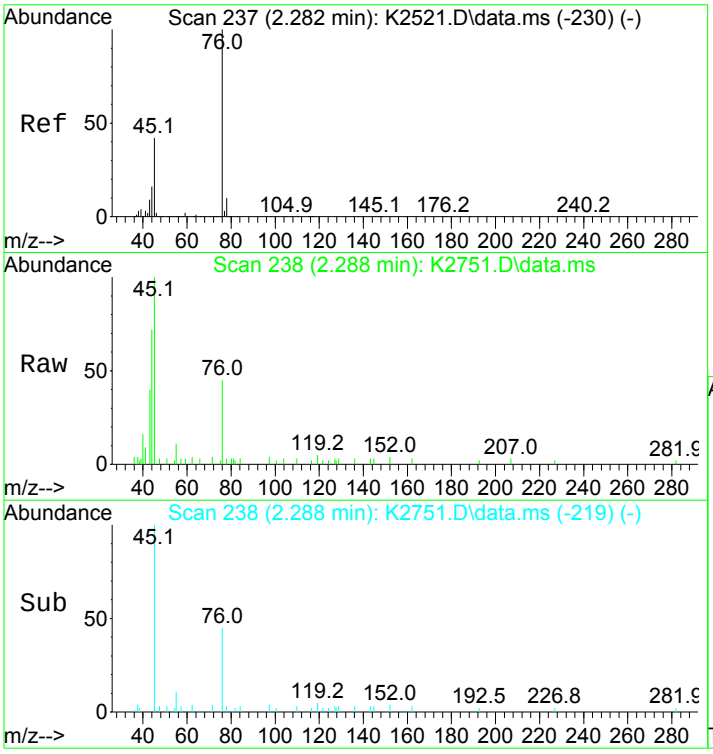


#16
Acetone
Concen: 4.52 ug/L
RT: 2.154 min Scan# 216
Delta R.T. -0.000 min
Lab File: K2751.D
Acq: 10 Jun 2024 02:16 pm

Tgt Ion: 43 Resp: 7902

Ion	Ratio	Lower	Upper
43	100		
58	28.1	16.2	56.2
42	6.8	0.0	28.5

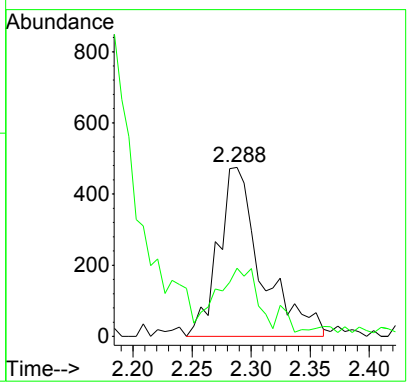


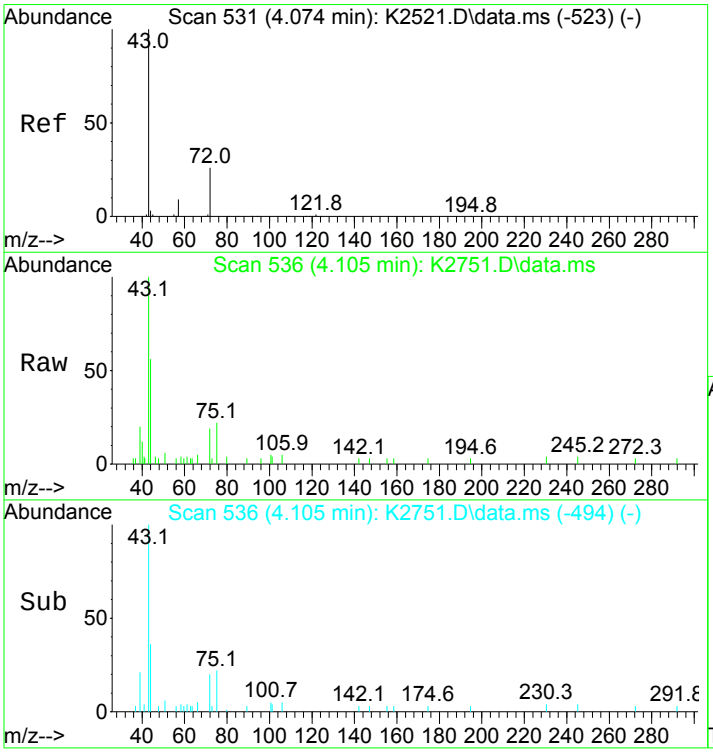


#17
2-Propanol
Concen: 4.63 ug/L m
RT: 2.288 min Scan# 238
Delta R.T. 0.006 min
Lab File: K2751.D
Acq: 10 Jun 2024 02:16 pm

Tgt Ion: 45 Resp: 1205

Ion	Ratio	Lower	Upper
45	100		
43	40.4	2.4	42.4

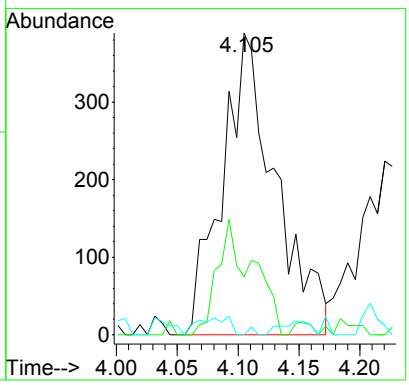




#35
2-Butanone
Concen: 0.70 ug/L
RT: 4.105 min Scan# 536
Delta R.T. 0.030 min
Lab File: K2751.D
Acq: 10 Jun 2024 02:16 pm

Tgt Ion: 43 Resp: 1181

Ion	Ratio	Lower	Upper
43	100		
72	19.3	8.0	48.0
57	0.0	0.0	30.7



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2717.D
Acq On : 09 Jun 2024 12:18 pm
Operator : K.Ruest
Sample : MBLK-FP
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 09 12:40:11 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

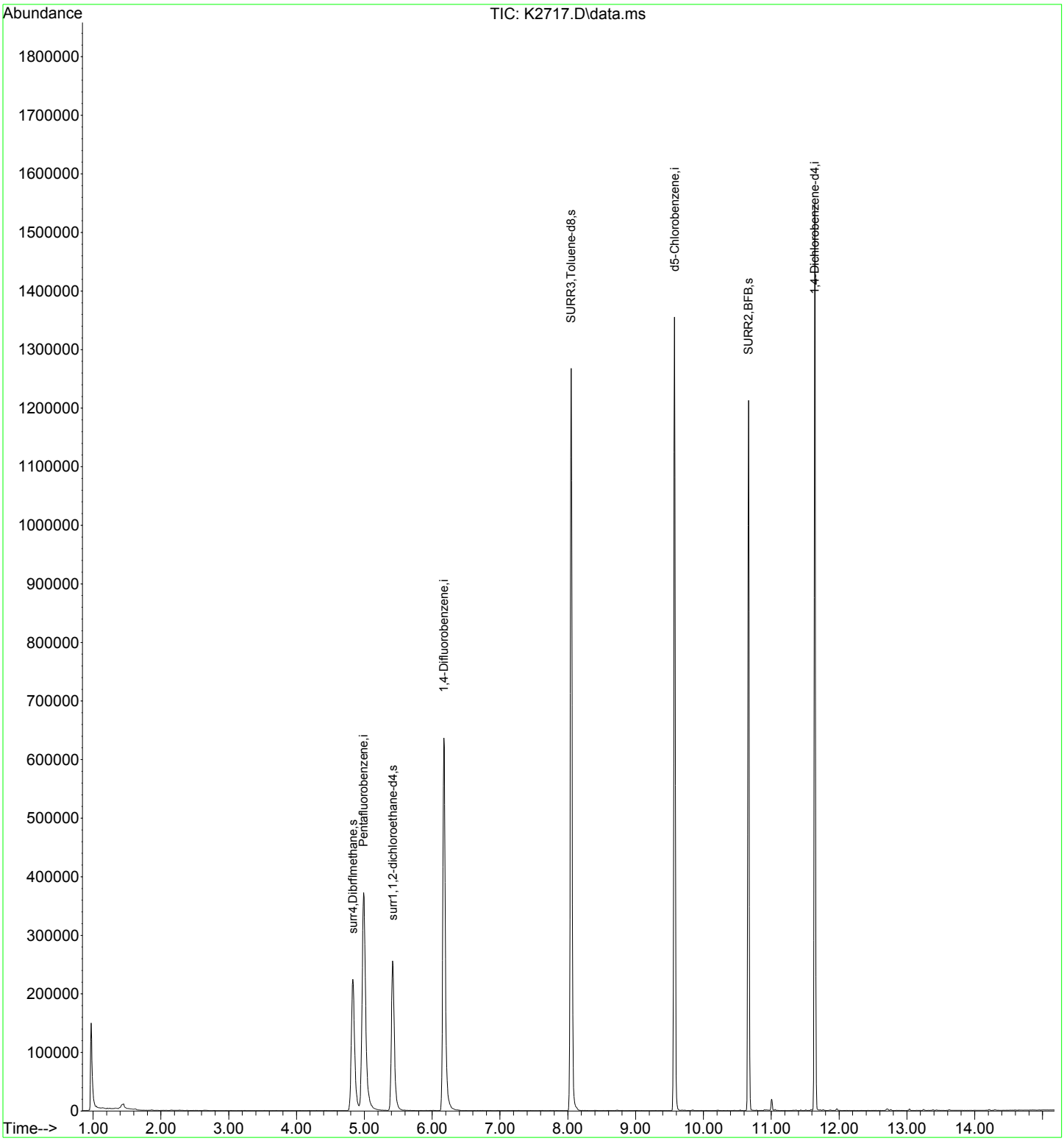
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.989	168	455444	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.172	114	714752	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.573	117	633810	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	11.640	152	296067	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.830	113	233497	48.48	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 96.96%			
48) surr1,1,2-dichloroetha...	5.422	65	292173	50.07	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.14%			
65) SURR3,Toluene-d8	8.049	98	837420	50.18	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 100.36%			
70) SURR2,BFB	10.665	95	309425	49.33	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 98.66%			
Target Compounds						Qvalue
16) Acetone	2.154	43	1037	Below Cal		83

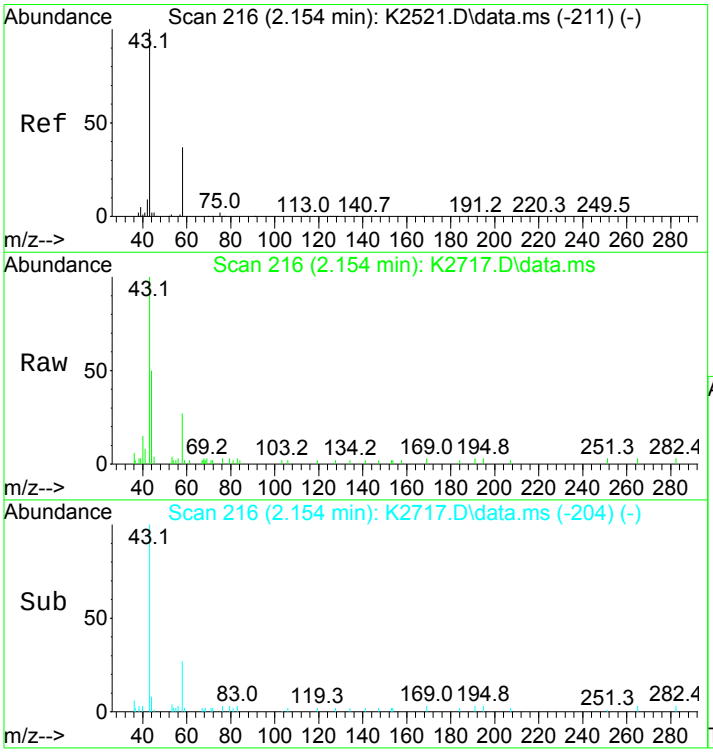
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2717.D
Acq On : 09 Jun 2024 12:18 pm
Operator : K.Ruest
Sample : MBLK-FP
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 09 12:40:11 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

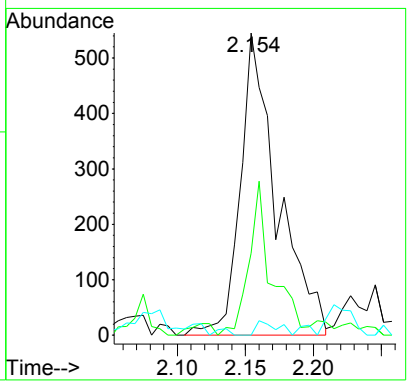




#16
Acetone
Concen: Below Cal
RT: 2.154 min Scan# 216
Delta R.T. 0.000 min
Lab File: K2717.D
Acq: 09 Jun 2024 12:18 pm

Tgt Ion: 43 Resp: 1037

Ion	Ratio	Lower	Upper
43	100		
58	27.2	16.2	56.2
42	0.0	0.0	28.5



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2748.D
Acq On : 10 Jun 2024 01:07 pm
Operator : K.Ruest
Sample : MBLK-FP
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 10 13:23:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

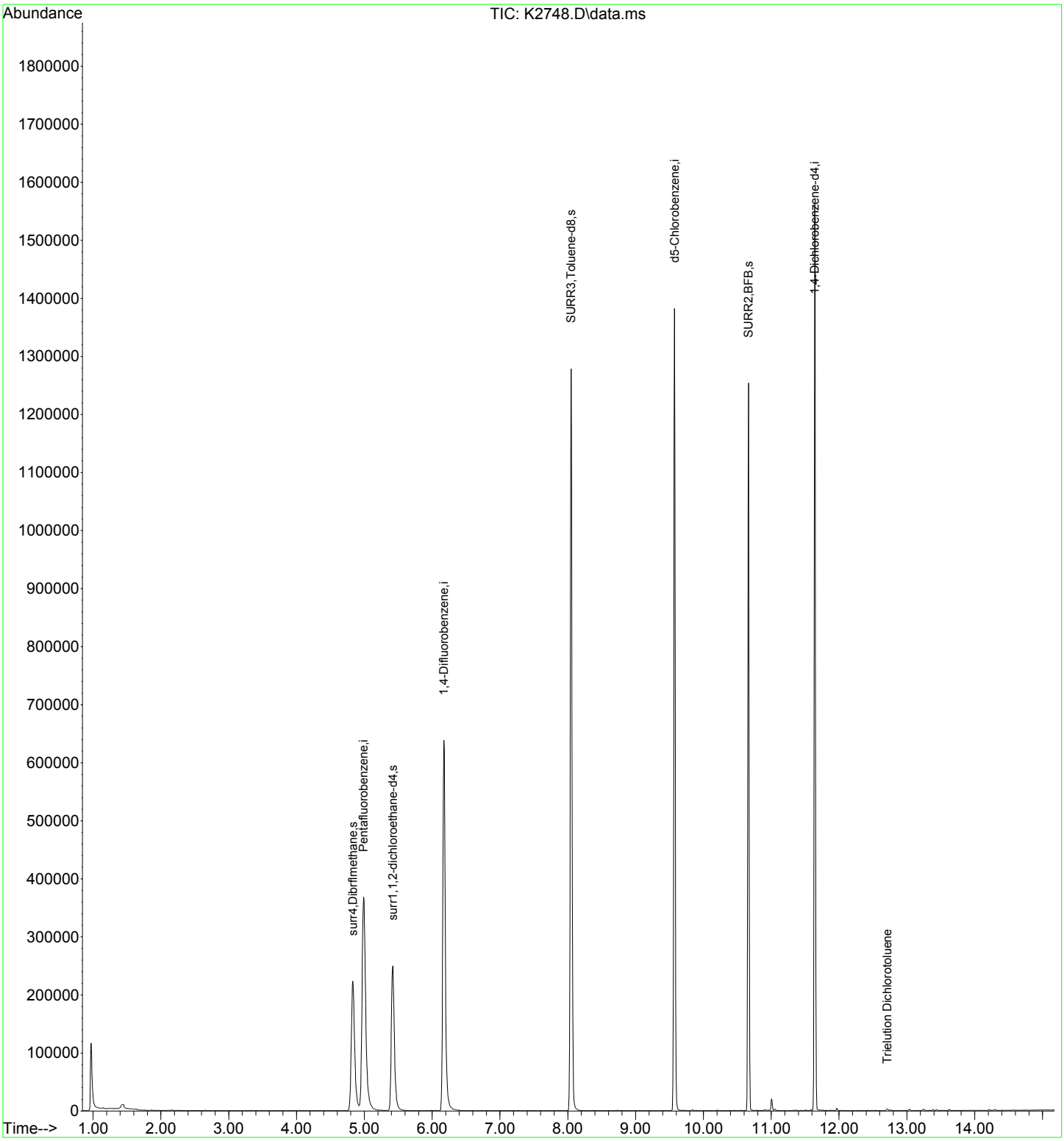
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.989	168	452990	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.172	114	715015	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.574	117	638327	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	11.640	152	303176	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.830	113	235840	48.95	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 97.90%			
48) surr1,1,2-dichloroetha...	5.422	65	294604	50.46	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.92%			
65) SURR3,Toluene-d8	8.049	98	837149	50.14	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 100.28%			
70) SURR2,BFB	10.665	95	324424	51.70	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 103.40%			
Target Compounds						Qvalue
16) Acetone	2.154	43	1034	Below Cal		95
112) Trielution Dichlorotol...	12.713	125	1593	0.201	ug/L	86

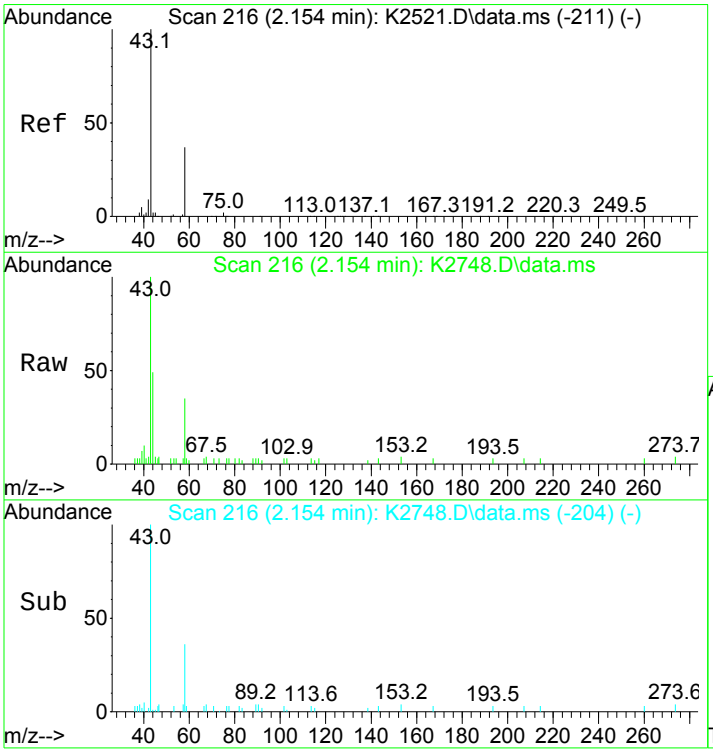
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2748.D
Acq On : 10 Jun 2024 01:07 pm
Operator : K.Ruest
Sample : MBLK-FP
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 10 13:23:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

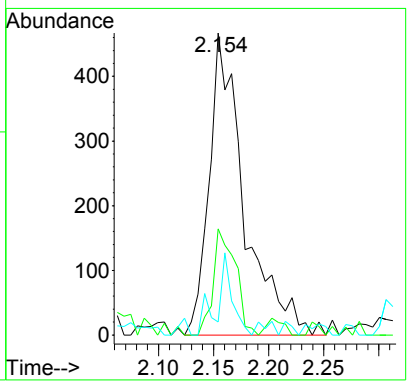


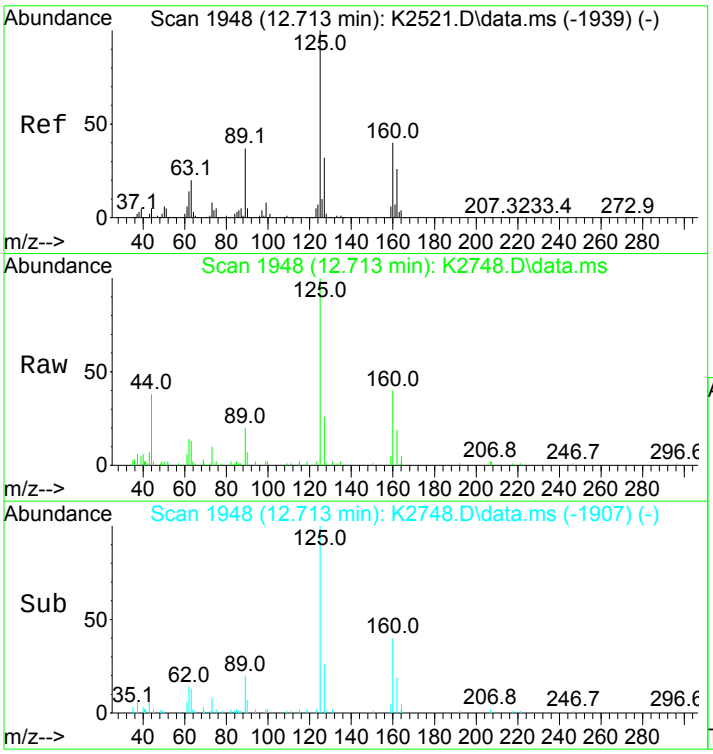


#16
Acetone
Concen: Below Cal
RT: 2.154 min Scan# 216
Delta R.T. 0.000 min
Lab File: K2748.D
Acq: 10 Jun 2024 01:07 pm

Tgt Ion: 43 Resp: 1034

Ion	Ratio	Lower	Upper
43	100		
58	38.1	16.2	56.2
42	4.3	0.0	28.5

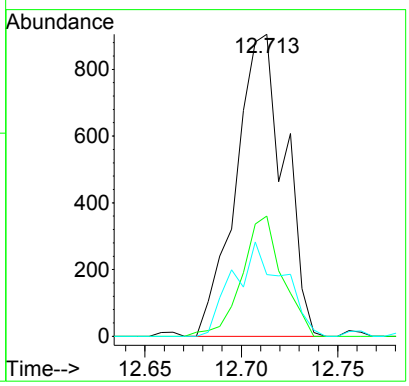




#112
Trielution Dichlorotoluene
Concen: 0.20 ug/L
RT: 12.713 min Scan# 1948
Delta R.T. 0.000 min
Lab File: K2748.D
Acq: 10 Jun 2024 01:07 pm

Tgt Ion:125 Resp: 1593

Ion	Ratio	Lower	Upper
125	100		
160	39.8	20.4	60.4
89	20.4	16.8	56.8



1st 06/10/24
2nd 06/14/24

LSC Area Percent Report

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2748.D
Acq On : 10 Jun 2024 01:07 pm
Operator : K.Ruest
Sample : MBLK-FP
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 250 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0.1 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Title : MS#17 - 8260 WATERS 5mL Purge

Signal : TIC: K2748.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	0.971	17	22	38	rBV	115670	222692	10.03%	1.782%
2	4.830	640	655	670	rBV	223446	771565	34.74%	6.174%
3	4.989	670	681	713	rVB2	367123	1368407	61.61%	10.950%
4	5.422	738	752	776	rBV	249212	782607	35.24%	6.262%
5	6.172	866	875	906	rBV	637982	1633647	73.55%	13.072%
6	8.049	1175	1183	1202	rBV	1278037	2220999	100.00%	17.772%
7	9.574	1427	1433	1448	rVB	1381667	1941576	87.42%	15.536%
8	10.665	1606	1612	1621	rBV	1253198	1563995	70.42%	12.515%
9	11.006	1663	1668	1673	rBV	20024	26974	1.21%	0.216%
10	11.640	1767	1772	1780	rBV	1561460	1964685	88.46%	15.721%

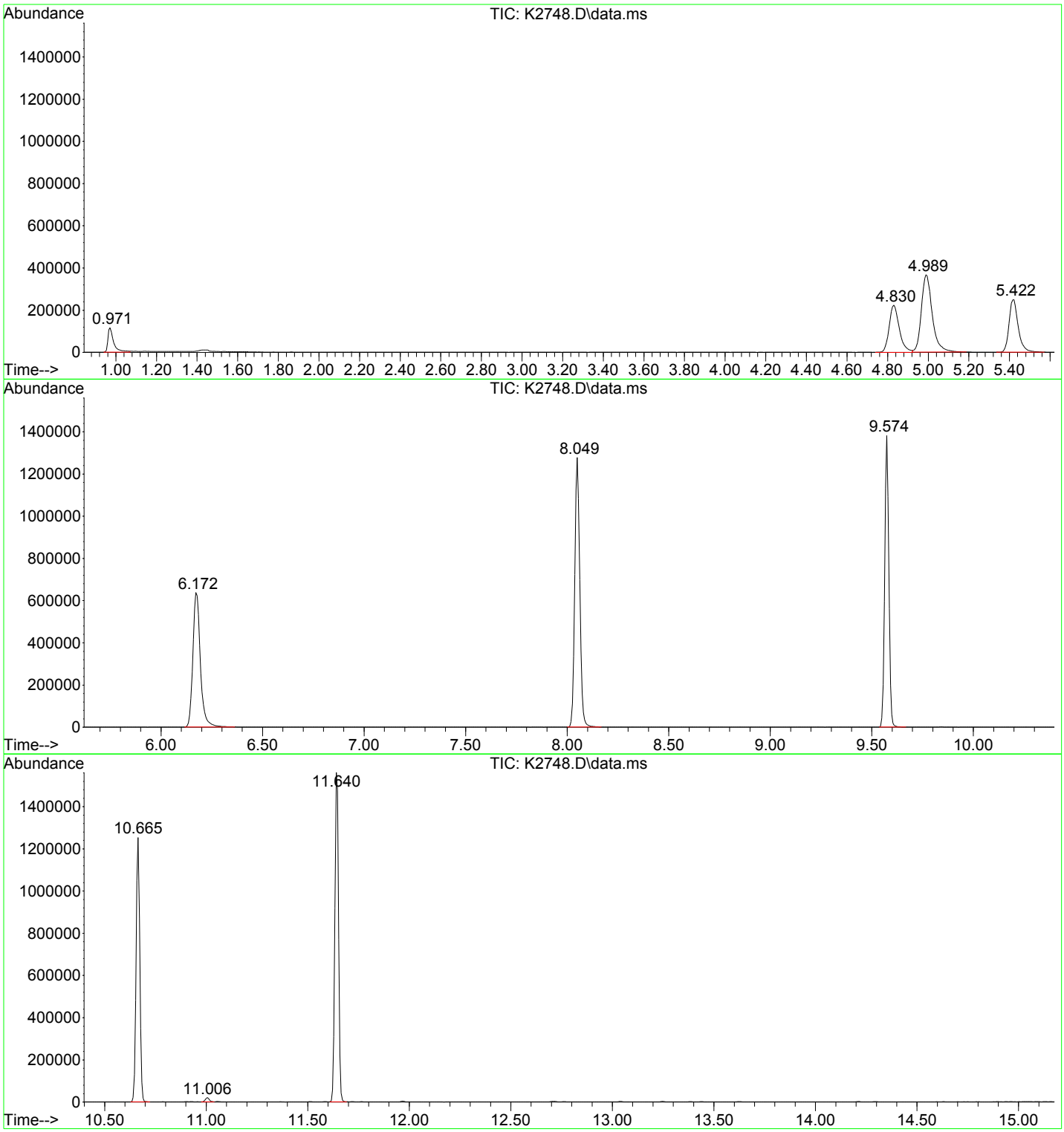
Sum of corrected areas: 12497147

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2748.D
Acq On : 10 Jun 2024 01:07 pm
Operator : K.Ruest
Sample : MBLK-FP
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2748.D
Acq On : 10 Jun 2024 01:07 pm
Operator : K.Ruest
Sample : MBLK-FP
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge

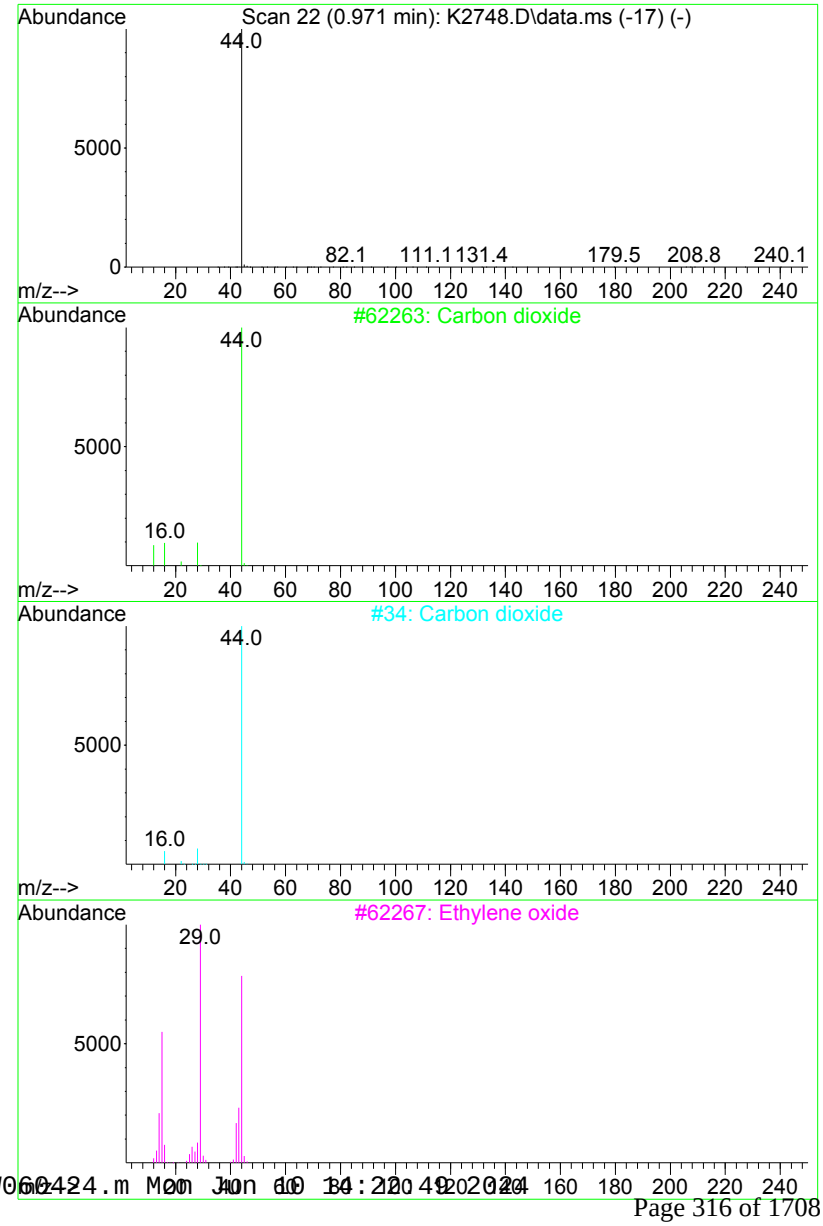
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

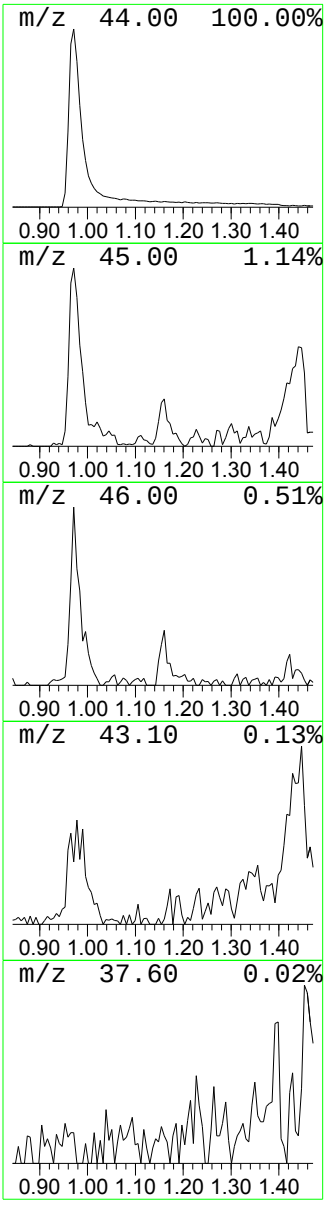
****

Peak Number 1 unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
0.971	8.14 ug/L	222692	Pentafluorobenzene	4.989

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Nitrous Oxide	44	N2O	010024-97-2	3
5	Nitrous Oxide	44	N2O	010024-97-2	3





1st 06/10/24
2nd 06/14/24

Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2748.D
Acq On : 10 Jun 2024 01:07 pm
Operator : K.Ruest
Sample : MBLK-FP
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge

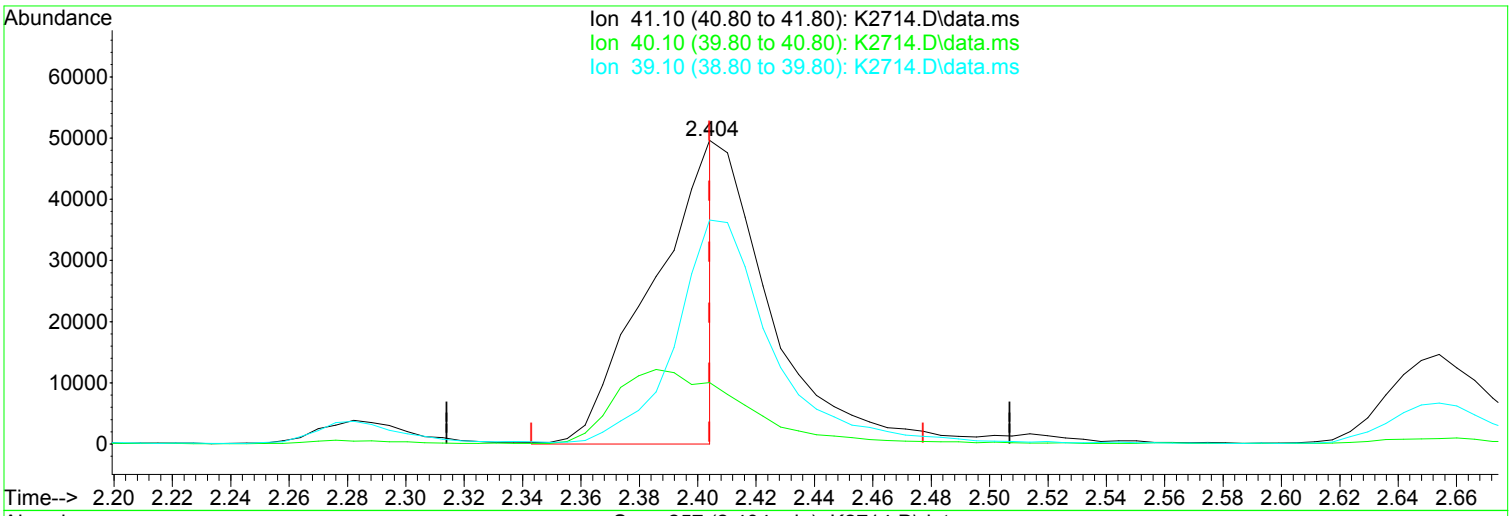
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

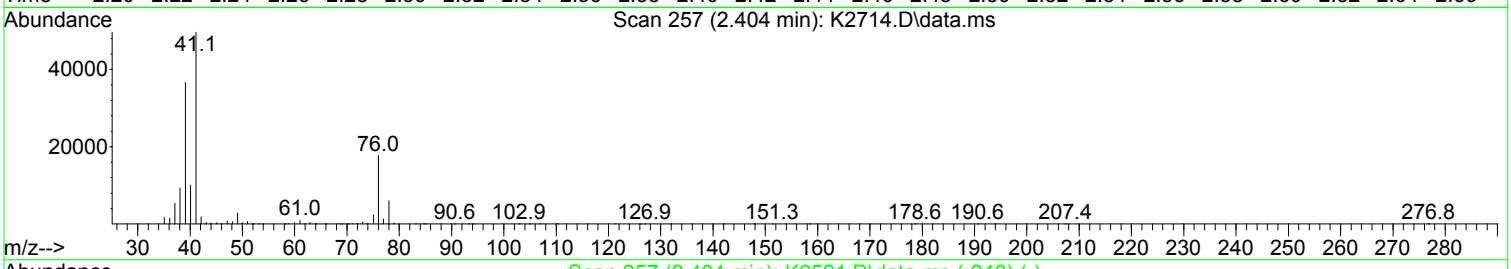
					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown	0.971	8.1	ug/L	222692	1	4.989	1368410	50.0

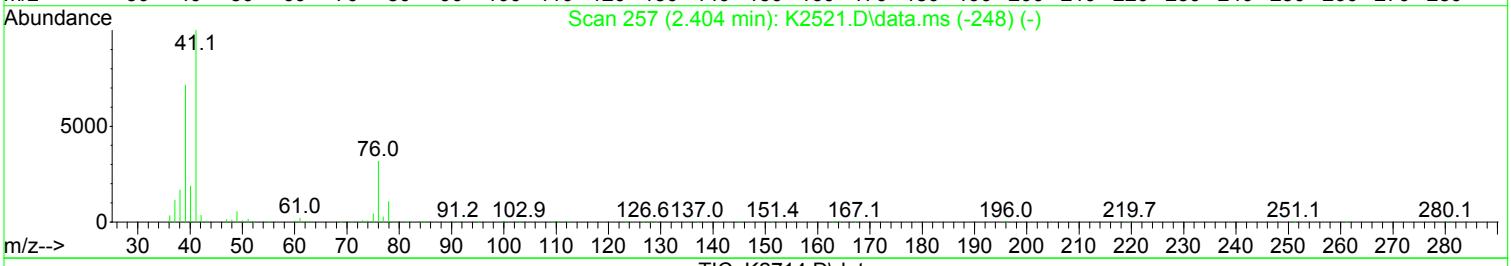
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2714.D
Acq On : 09 Jun 2024 11:00 am
Operator : K.Ruest
Sample : LCS-FP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 09 11:16:49 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2714.D\data.ms

(20) Acetonitrile

2.404min (+ 0.000) 106.64 ug/L m

response 74847

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	18.80	20.28
39.10	71.30	73.79
0.00	0.00	0.00

Manual Integration:

After

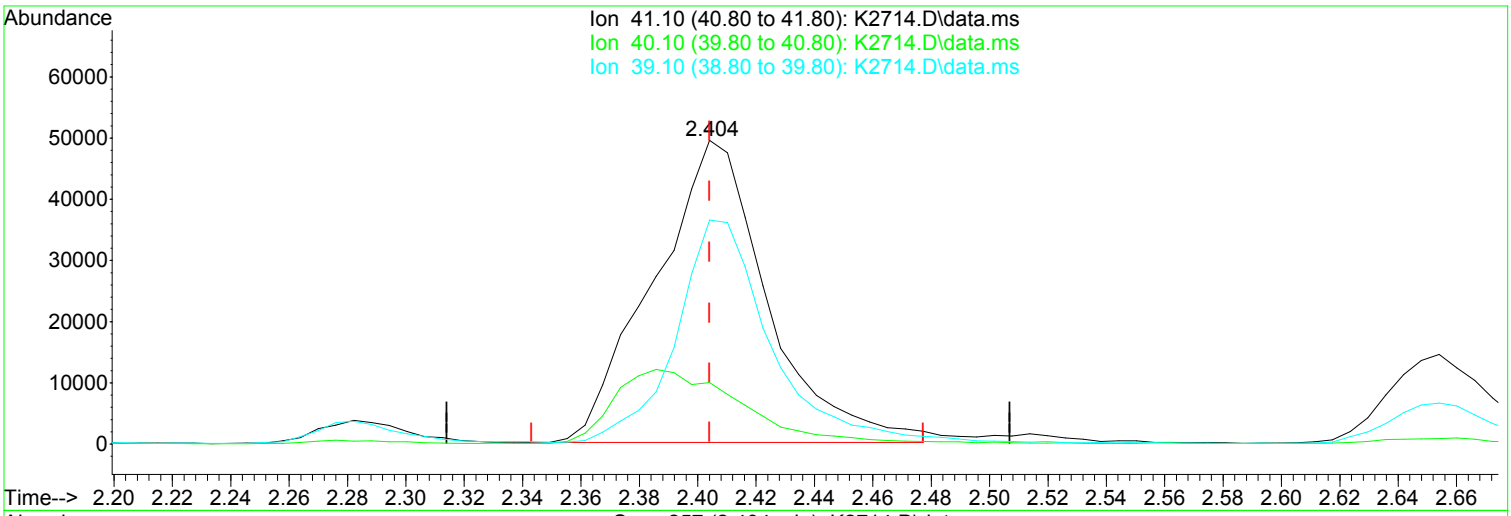
Poor integration.

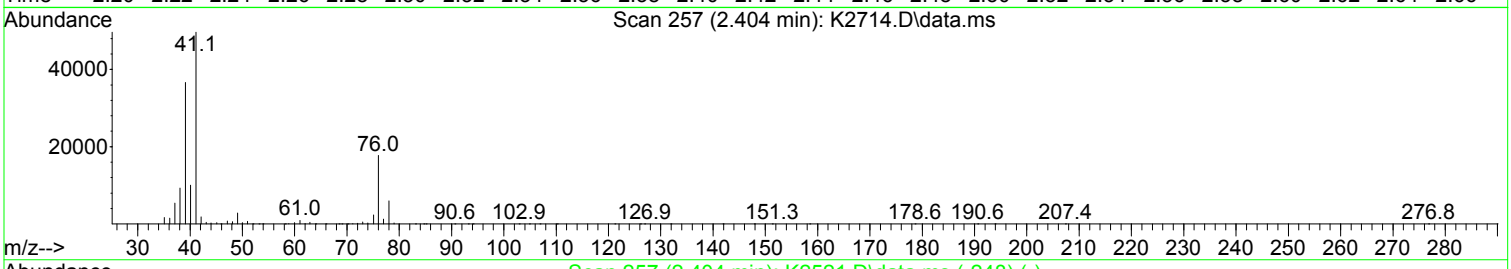
06/09/24

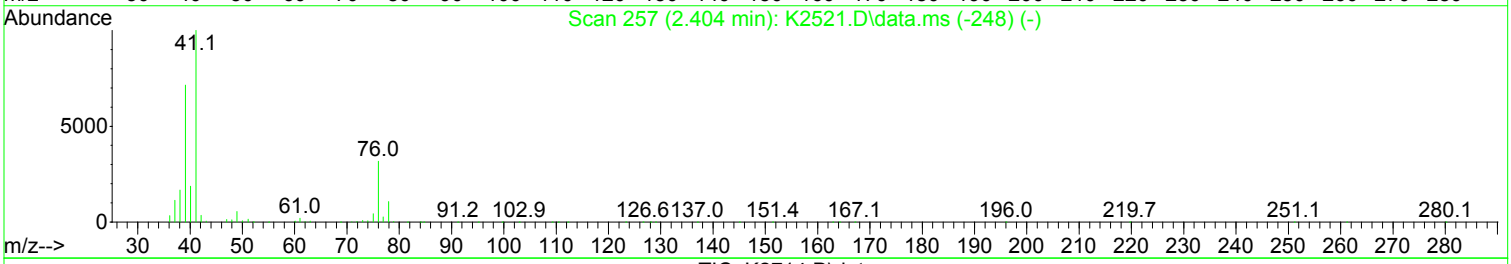
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2714.D
Acq On : 09 Jun 2024 11:00 am
Operator : K.Ruest
Sample : LCS-FP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 09 11:16:49 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2714.D\data.ms

(20) Acetonitrile

2.404min (+ 0.000) 190.99 ug/L

response 134054

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	18.80	20.28
39.10	71.30	73.79
0.00	0.00	0.00

Manual Integration:

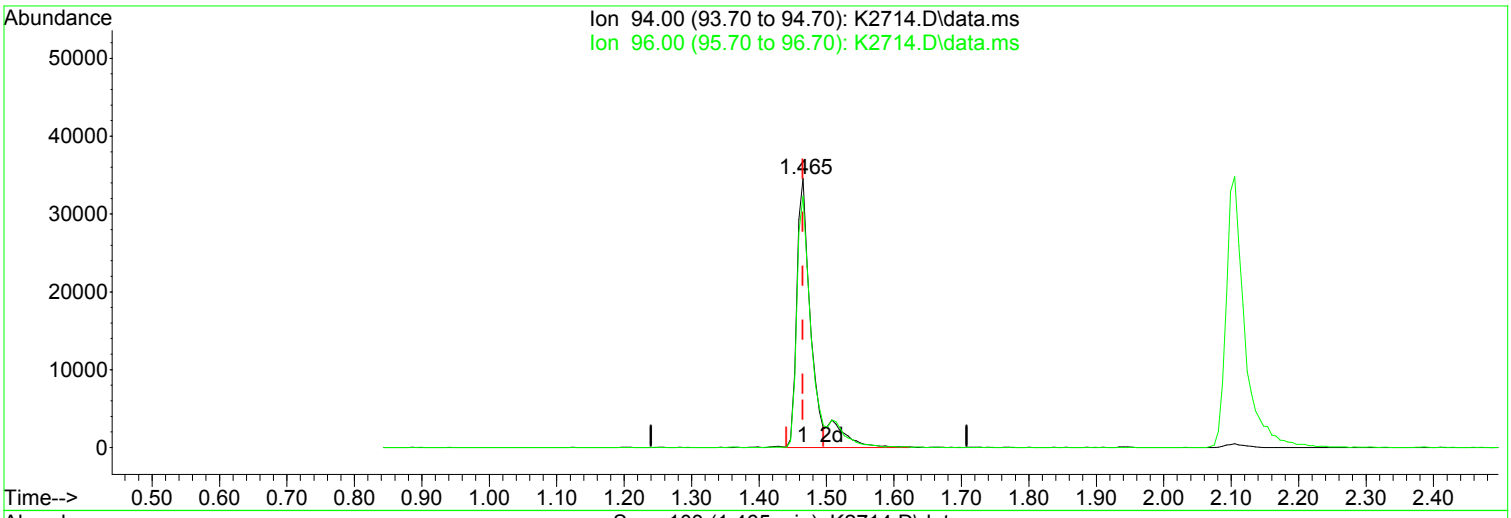
Before

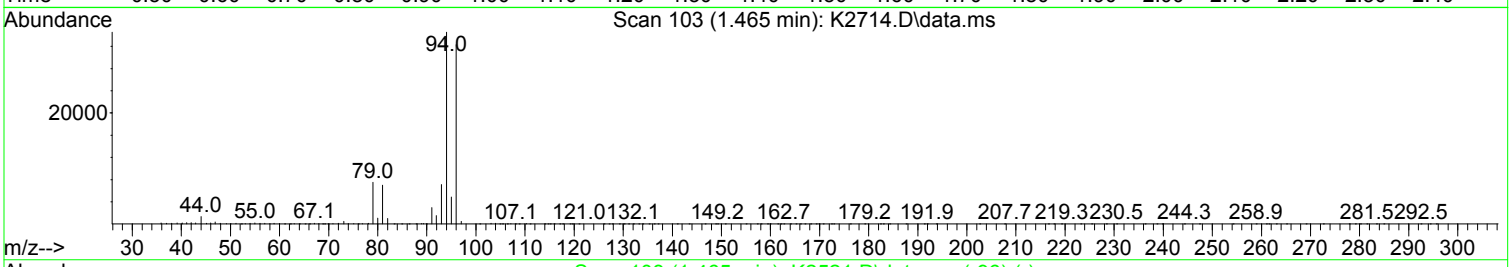
06/09/24

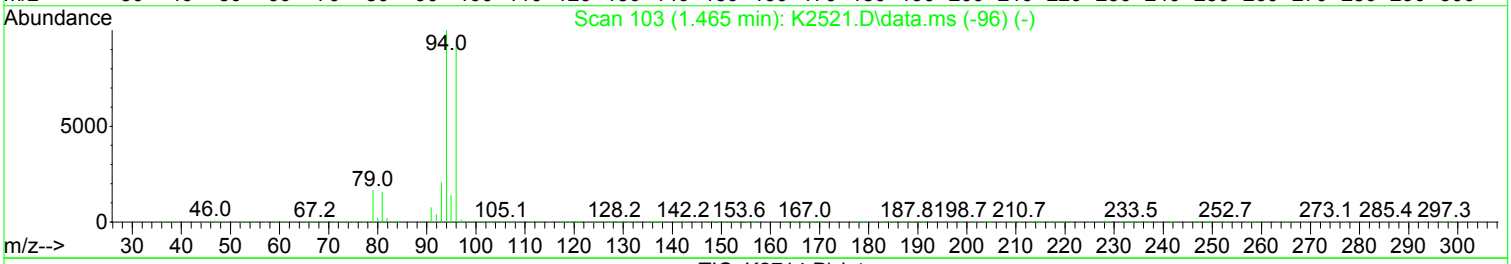
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2714.D
Acq On : 09 Jun 2024 11:00 am
Operator : K.Ruest
Sample : LCS-FP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 09 11:16:49 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2714.D\data.ms

(6) Bromomethane (P)

1.465min (+ 0.000) 19.58 ug/L m

response 53719

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	92.50	93.54
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

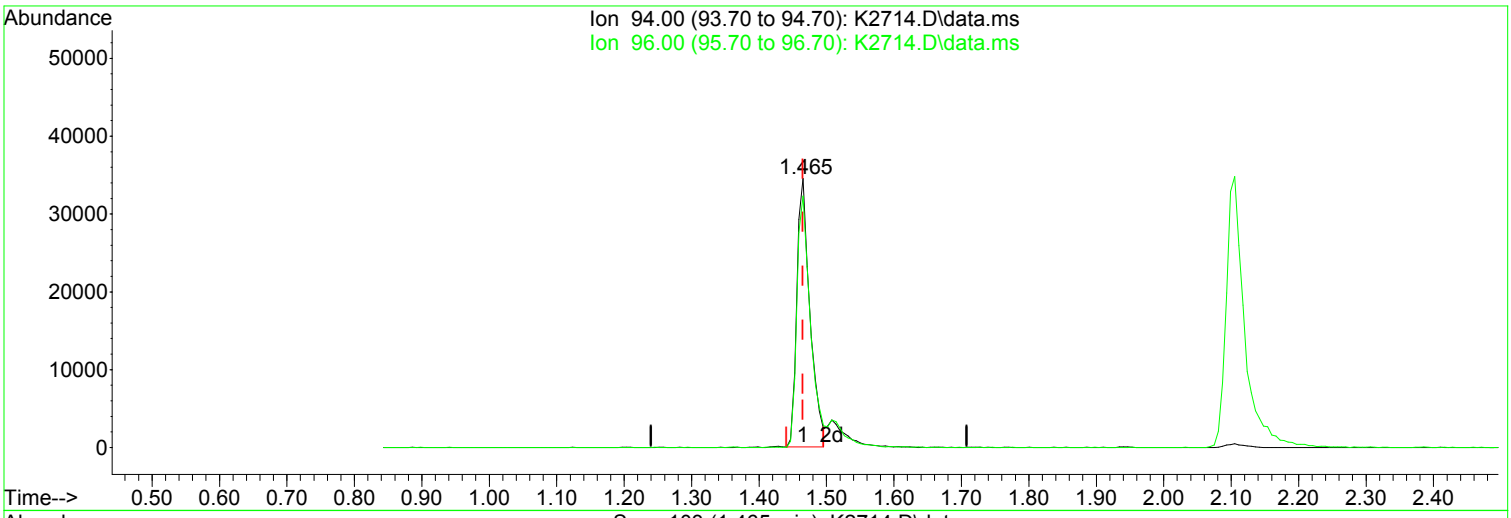
Split Peak.

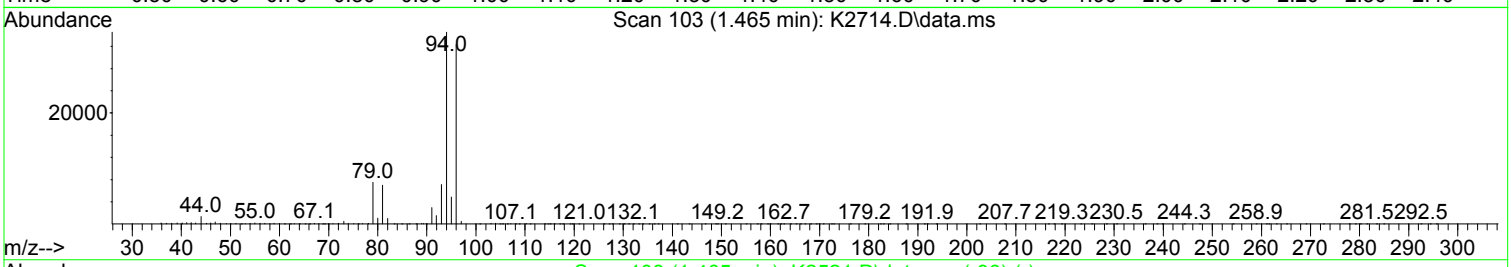
06/09/24

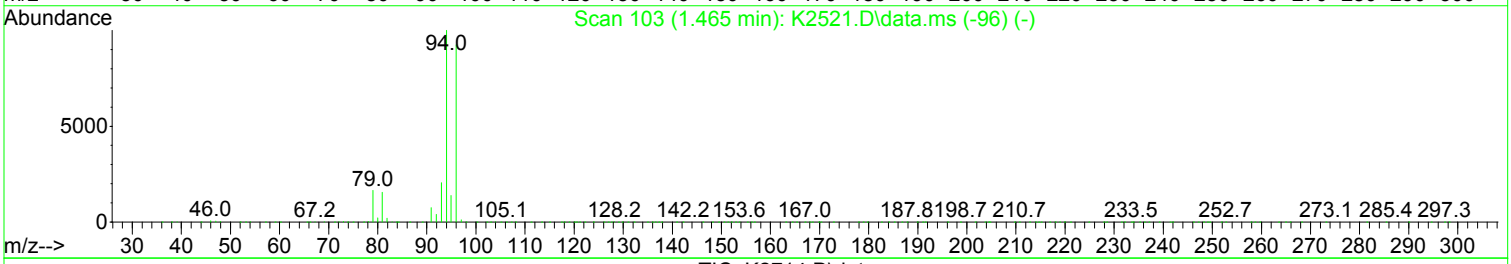
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2714.D
Acq On : 09 Jun 2024 11:00 am
Operator : K.Ruest
Sample : LCS-FP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 09 11:16:49 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2714.D\data.ms

(6) Bromomethane (P)

1.465min (+ 0.000) 16.59 ug/L

response 46334

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	92.50	93.54
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

06/09/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2714.D
Acq On : 09 Jun 2024 11:00 am
Operator : K.Ruest
Sample : LCS-FP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 09 11:16:49 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.989	168	460992	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.172	114	720643	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.573	117	640455	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	11.640	152	315248	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.824	113	236836	48.78	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 97.56%			
48) surr1,1,2-dichloroetha...	5.416	65	285444	48.51	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 97.02%			
65) SURR3,Toluene-d8	8.049	98	819742	48.72	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 97.44%			
70) SURR2,BFB	10.665	95	318940	50.43	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.86%			
Target Compounds						Qvalue
2) Chlorodifluoromethane	1.087	51	83700	21.564	ug/L	100
3) Dichlorodifluoromethane	1.075	85	119324	21.857	ug/L	99
4) Chloromethane	1.197	50	84294	17.241	ug/L	98
5) Vinyl Chloride	1.264	62	85811	18.574	ug/L	100
6) Bromomethane	1.465	94	53719m	19.577	ug/L	
7) Chloroethane	1.532	64	44855	15.080	ug/L	100
8) Freon 21	1.672	67	109984	16.743	ug/L	96
9) Trichlorofluoromethane	1.715	101	127810	20.254	ug/L	98
10) Diethyl Ether	1.929	59	67252	20.680	ug/L	97
11) Freon 123a	1.935	67	70491	18.273	ug/L	91
12) Freon 123	1.983	83	106702	21.387	ug/L	99
13) Acrolein	2.026	56	31979	66.499	ug/L	99
14) 1,1-Diclethene	2.105	96	66653	18.929	ug/L	99
15) Freon 113	2.111	101	71576	19.560	ug/L	93
16) Acetone	2.154	43	26044	20.670	ug/L	98
17) 2-Propanol	2.282	45	99090	374.439	ug/L	96
18) Iodomethane	2.227	142	48146	17.024	ug/L	99
19) Carbon Disulfide	2.276	76	177444	18.197	ug/L	99
20) Acetonitrile	2.404	41	74847m	106.639	ug/L	
21) Allyl Chloride	2.410	76	36808	20.304	ug/L	95
22) Methyl Acetate	2.435	43	52205	13.929	ug/L	100
23) Methylene Chloride	2.514	84	73000	19.457	ug/L	96
24) TBA	2.654	59	221005	406.582	ug/L	96
25) Acrylonitrile	2.758	53	162258	100.250	ug/L	97
26) Methyl-t-Butyl Ether	2.794	73	227461	19.411	ug/L	98
27) trans-1,2-Dichloroethene	2.782	96	71582	19.255	ug/L	97
28) 1,1-Diclethane	3.245	63	132484	19.161	ug/L	97
29) Vinyl Acetate	3.337	86	14155	30.781	ug/L #	73
30) DIPE	3.355	45	183569	18.427	ug/L	89
31) 2-Chloro-1,3-Butadiene	3.355	53	114139	19.202	ug/L	96
32) ETBE	3.843	59	216898	17.153	ug/L	98
33) 2,2-Dichloropropane	4.007	77	118540	19.623	ug/L	98
34) cis-1,2-Dichloroethene	4.014	96	83799	19.805	ug/L	95
35) 2-Butanone	4.074	43	36537	21.246	ug/L	97
36) Propionitrile	4.154	54	67367	100.949	ug/L	99
37) Bromochloromethane	4.379	130	57362	19.992	ug/L	95
38) Methacrylonitrile	4.404	67	34631	19.587	ug/L	97
39) Tetrahydrofuran	4.483	42	21969	19.384	ug/L	98
40) Chloroform	4.544	83	137523	20.233	ug/L	100

1st 06/09/24
2nd 06/10/24

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2714.D
Acq On : 09 Jun 2024 11:00 am
Operator : K.Ruest
Sample : LCS-FP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 09 11:16:49 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41)	1,1,1-Trichloroethane	4.824	97	129746	20.097	ug/L	98
42)	TAME	5.763	73	202271	18.345	ug/L	98
44)	Cyclohexane	4.904	41	55223	18.265	ug/L	95
46)	Carbontetrachloride	5.123	117	118421	17.496	ug/L	97
47)	1,1-Dichloropropene	5.141	75	87806	17.186	ug/L	98
49)	Benzene	5.495	78	269829	19.368	ug/L	99
50)	1,2-Dichloroethane	5.544	62	121713	18.947	ug/L	98
51)	Iso-Butyl Alcohol	5.562	43	60686	357.594	ug/L	97
52)	n-Heptane	6.025	43	79412	19.353	ug/L	96
53)	1-Butanol	6.586	56	107045	908.532	ug/L	100
54)	Trichloroethene	6.507	130	84902	18.757	ug/L	98
55)	Methylcyclohexane	6.745	55	92231	18.063	ug/L	99
56)	1,2-Diclpropane	6.806	63	71345	17.934	ug/L	99
57)	Dibromomethane	6.952	93	53864	19.795	ug/L	95
58)	1,4-Dioxane	7.031	88	23054	373.622	ug/L	96
59)	Methyl Methacrylate	7.062	69	54561	20.018	ug/L	99
60)	Bromodichloromethane	7.190	83	106637	19.430	ug/L	97
61)	2-Nitropropane	7.501	41	50801	40.222	ug/L	97
63)	cis-1,3-Dichloropropene	7.751	75	112687	19.495	ug/L	99
64)	4-Methyl-2-pentanone	7.976	43	72585	19.256	ug/L	96
66)	Toluene	8.123	91	308573	19.282	ug/L	99
67)	trans-1,3-Dichloropropene	8.409	75	106458	19.695	ug/L	98
68)	Ethyl Methacrylate	8.561	69	101899	19.575	ug/L	98
69)	1,1,2-Trichloroethane	8.598	97	72619	18.948	ug/L	93
72)	Tetrachloroethene	8.726	164	63633	18.112	ug/L	98
73)	2-Hexanone	8.909	43	52638	19.541	ug/L	96
74)	1,3-Dichloropropane	8.775	76	112659	18.741	ug/L	97
75)	Dibromochloromethane	9.000	129	89780	18.762	ug/L	98
76)	N-Butyl Acetate	9.074	43	102764	17.803	ug/L	99
77)	1,2-Dibromoethane	9.092	107	75837	19.817	ug/L	97
78)	3-Chlorobenzotrifluoride	9.628	180	100973	15.778	ug/L	99
79)	Chlorobenzene	9.598	112	210793	18.469	ug/L	99
80)	4-Chlorobenzotrifluoride	9.689	180	91604	15.852	ug/L	98
81)	1,1,1,2-Tetrachloroethane	9.689	131	83251	18.225	ug/L	98
82)	Ethylbenzene	9.726	106	112906	18.854	ug/L	98
83)	(m+p)Xylene	9.842	106	280724	38.746	ug/L	97
84)	o-Xylene	10.201	106	137941	19.144	ug/L	98
85)	Styrene	10.214	104	231497	19.511	ug/L	94
86)	Bromoform	10.366	173	56530	19.834	ug/L	97
87)	2-Chlorobenzotrifluoride	10.457	180	98069	15.978	ug/L	98
88)	Isopropylbenzene	10.537	105	354875	19.002	ug/L	98
89)	Cyclohexanone	10.604	55	60494	145.998	ug/L	97
90)	trans-1,4-Dichloro-2-B...	10.860	53	27044	18.037	ug/L	97
92)	1,1,2,2-Tetrachloroethane	10.811	83	94797	19.024	ug/L	96
93)	Bromobenzene	10.781	156	94523	19.667	ug/L	99
94)	1,2,3-Trichloropropane	10.835	110	34570	18.871	ug/L	96
95)	n-Propylbenzene	10.896	91	404956	20.082	ug/L	96
96)	2-Chlorotoluene	10.957	91	242619	19.522	ug/L	99
97)	3-Chlorotoluene	11.012	91	229042	17.056	ug/L	98
98)	4-Chlorotoluene	11.055	91	292245	20.303	ug/L	100
99)	1,3,5-Trimethylbenzene	11.055	105	308269	19.484	ug/L	98
100)	tert-Butylbenzene	11.323	119	267569	19.267	ug/L	98
101)	1,2,4-Trimethylbenzene	11.366	105	307678	19.441	ug/L	99
102)	3,4-Dichlorobenzotrifl...	11.433	214	70679	15.892	ug/L	99
103)	sec-Butylbenzene	11.512	105	377224	19.730	ug/L	98
104)	p-Isopropyltoluene	11.634	119	340192	20.329	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2714.D
Acq On : 09 Jun 2024 11:00 am
Operator : K.Ruest
Sample : LCS-FP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 09 11:16:49 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

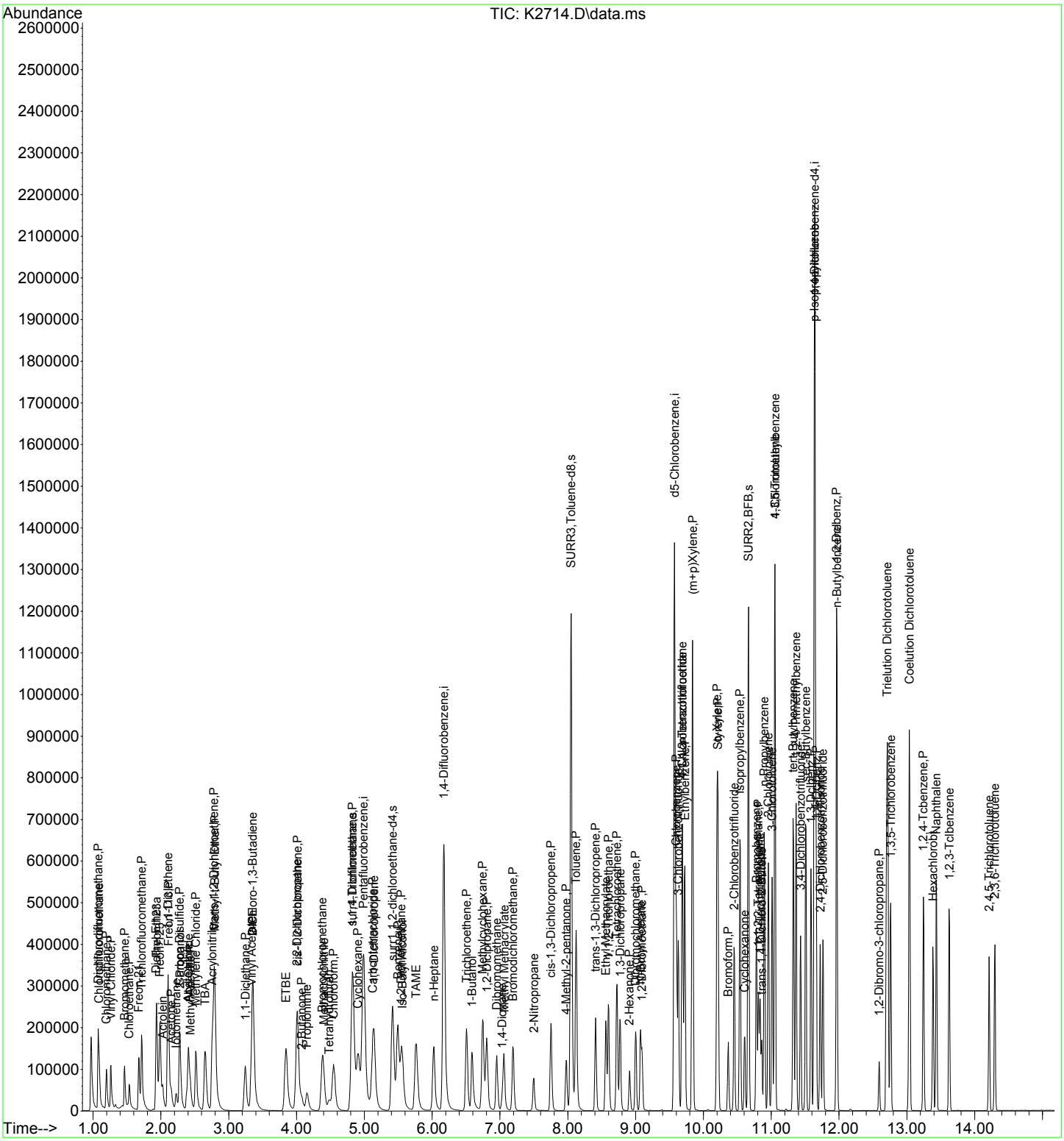
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.585	146	180815	19.448	ug/L	100
106) 1,4-Dclbenz	11.665	146	182124	19.289	ug/L	99
107) 2,4-Dichlorobenzotrifl...	11.726	214	63801	16.374	ug/L	97
108) 2,5-Dichlorobenzotrifl...	11.762	214	72031	16.517	ug/L	96
109) n-Butylbenzene	11.969	91	287087	20.456	ug/L	98
110) 1,2-Dclbenz	11.963	146	173436	19.146	ug/L	97
111) 1,2-Dibromo-3-chloropr...	12.591	157	23326	18.691	ug/L	91
112) Trielution Dichlorotol...	12.713	125	434971	52.736	ug/L	98
113) 1,3,5-Trichlorobenzene	12.762	180	109317	17.104	ug/L	95
114) Coelution Dichlorotoluene	13.036	125	305219	34.893	ug/L	98
115) 1,2,4-Tcbenzene	13.244	180	114617	19.597	ug/L	97
116) Hexachlorobt	13.384	225	48136	18.767	ug/L	96
117) Naphthalen	13.433	128	334998	19.753	ug/L	99
118) 1,2,3-Tclbenzene	13.628	180	106962	19.335	ug/L	99
119) 2,4,5-Trichlorotoluene	14.213	159	74965	17.516	ug/L	98
120) 2,3,6-Trichlorotoluene	14.298	159	74480	20.322	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2714.D
Acq On : 09 Jun 2024 11:00 am
Operator : K.Ruest
Sample : LCS-FP
Misc :
ALS Vial : 1 Sample Multiplier: 1

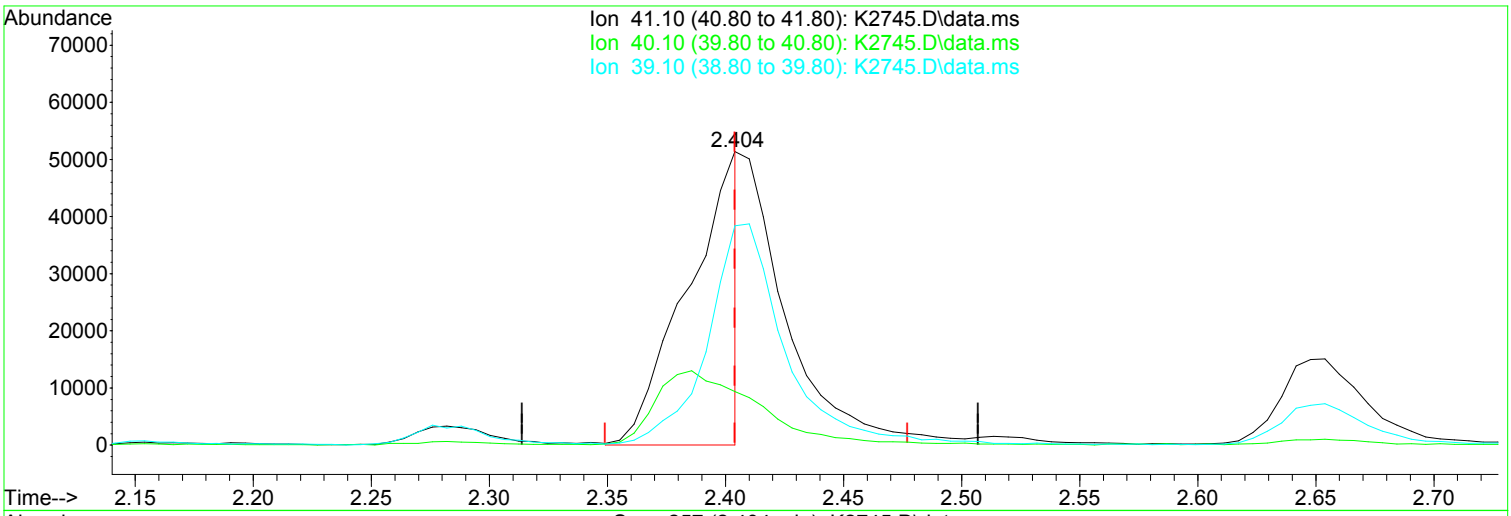
Quant Time: Jun 09 11:16:49 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

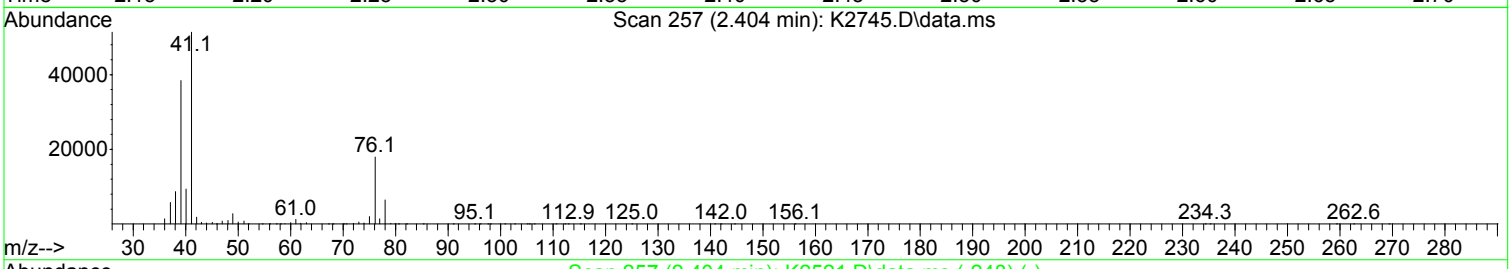


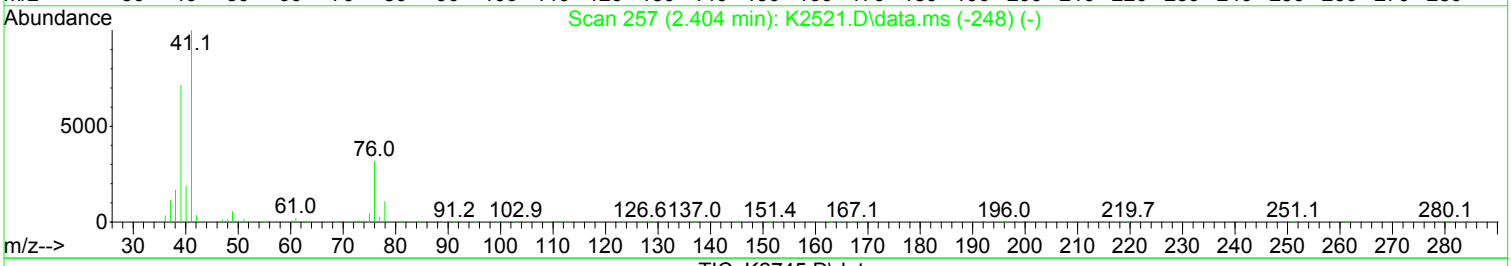
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2745.D
Acq On : 10 Jun 2024 11:49 am
Operator : K.Ruest
Sample : LCS-FP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 10 12:05:42 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2745.D\data.ms

(20) Acetonitrile

2.404min (-0.000) 111.94 ug/L m

response 78554

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	18.80	18.29
39.10	71.30	74.74
0.00	0.00	0.00

Manual Integration:

After

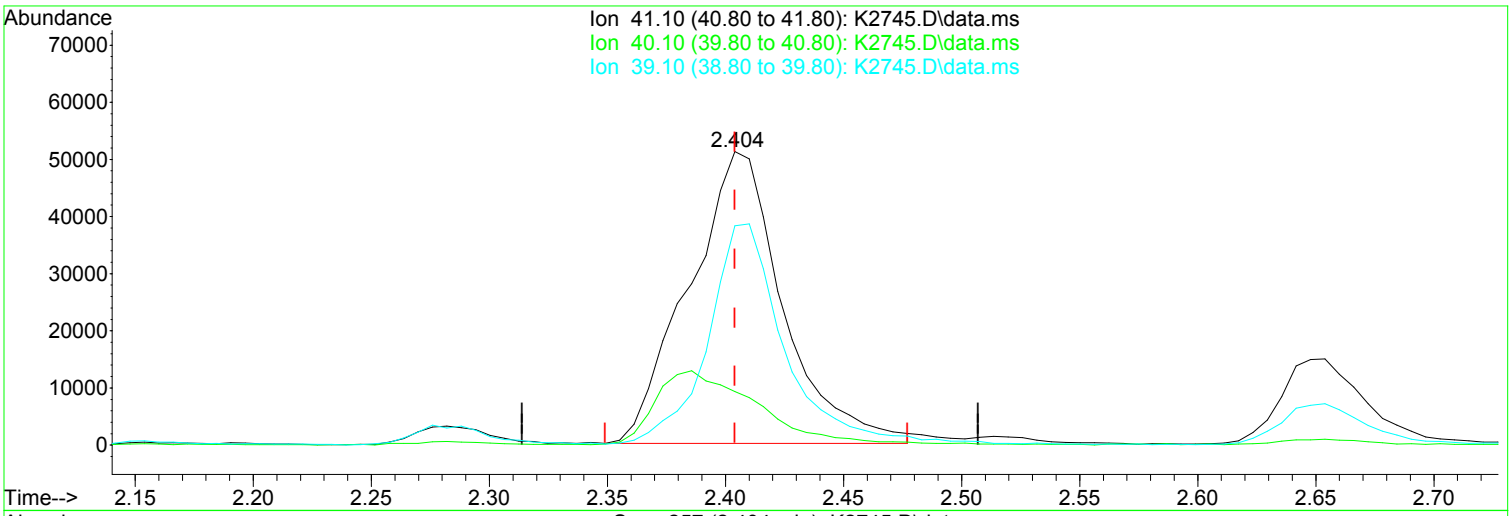
Poor integration.

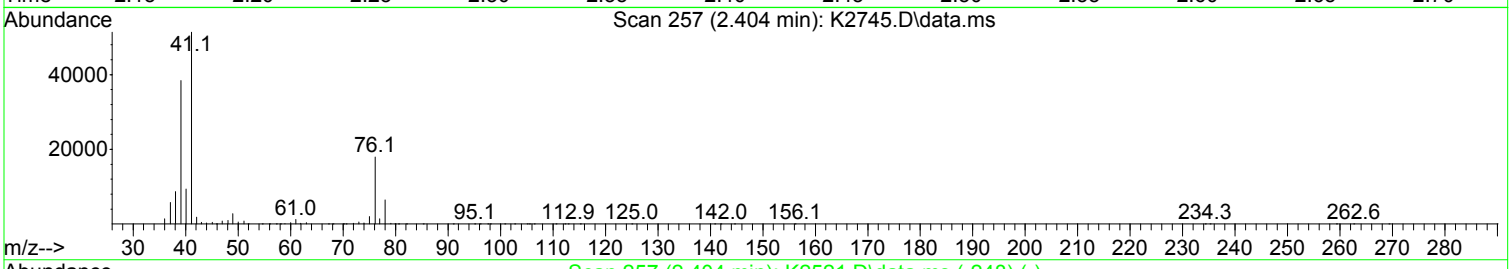
06/10/24

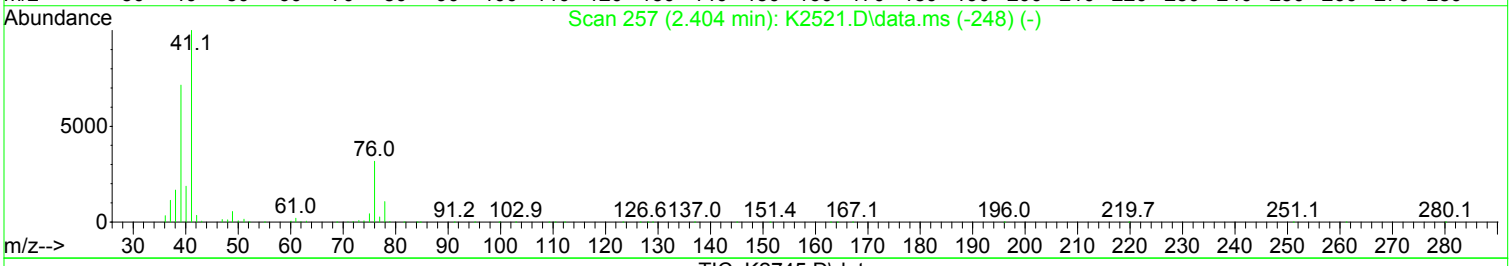
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2745.D
Acq On : 10 Jun 2024 11:49 am
Operator : K.Ruest
Sample : LCS-FP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 10 12:05:42 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2745.D\data.ms

(20) Acetonitrile

2.404min (-0.000) 201.76 ug/L

response 141588

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	18.80	18.29
39.10	71.30	74.74
0.00	0.00	0.00

Manual Integration:

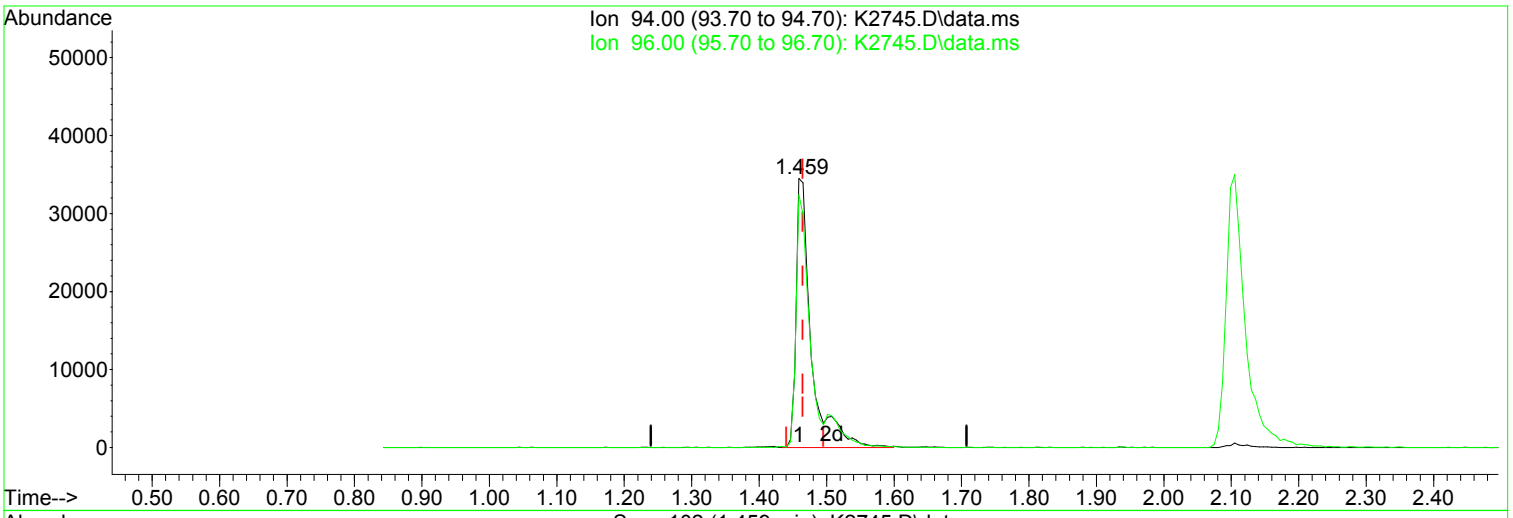
Before

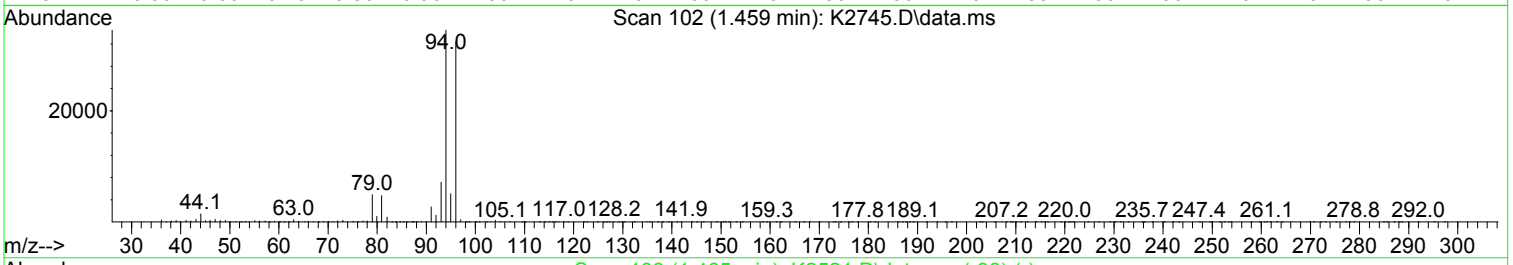
06/10/24

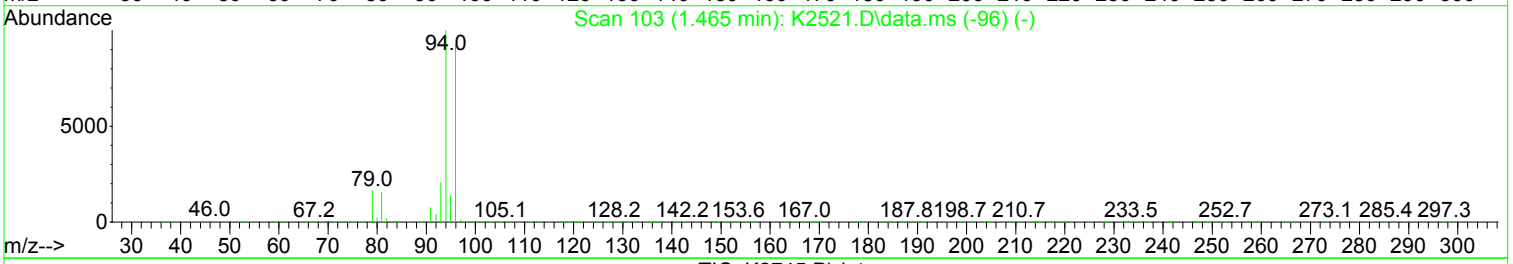
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2745.D
Acq On : 10 Jun 2024 11:49 am
Operator : K.Ruest
Sample : LCS-FP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 10 12:05:42 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2745.D\data.ms

(6) Bromomethane (P)

1.459min (-0.006) 19.67 ug/L m

response 53942

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	92.50	93.92
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

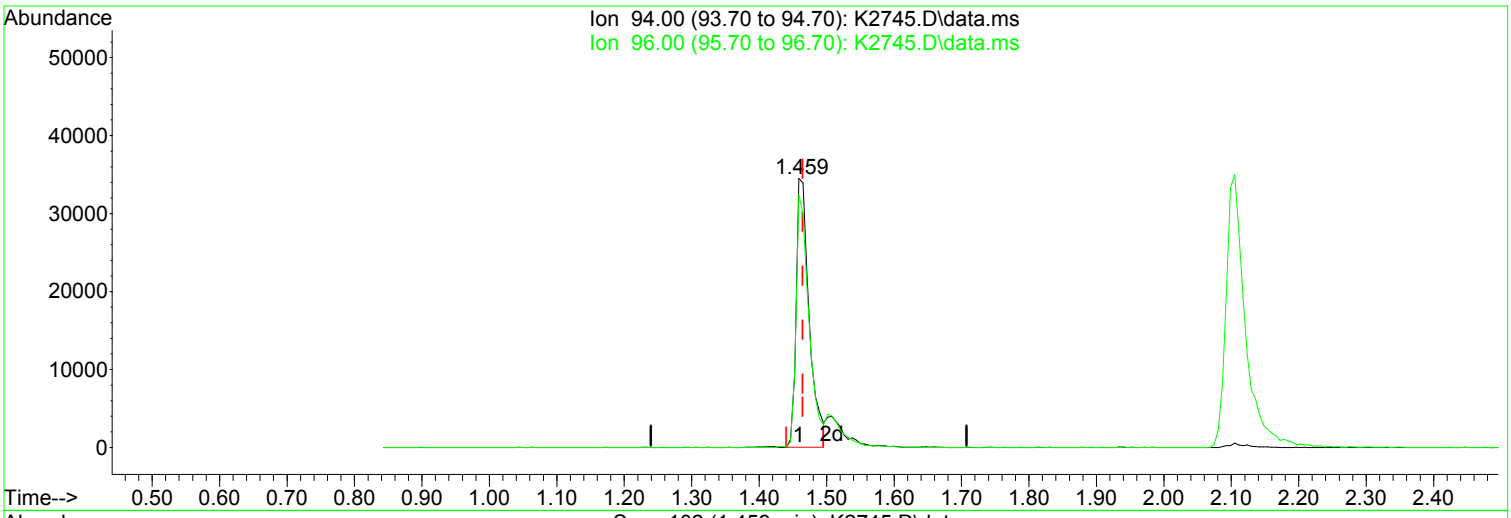
Split Peak.

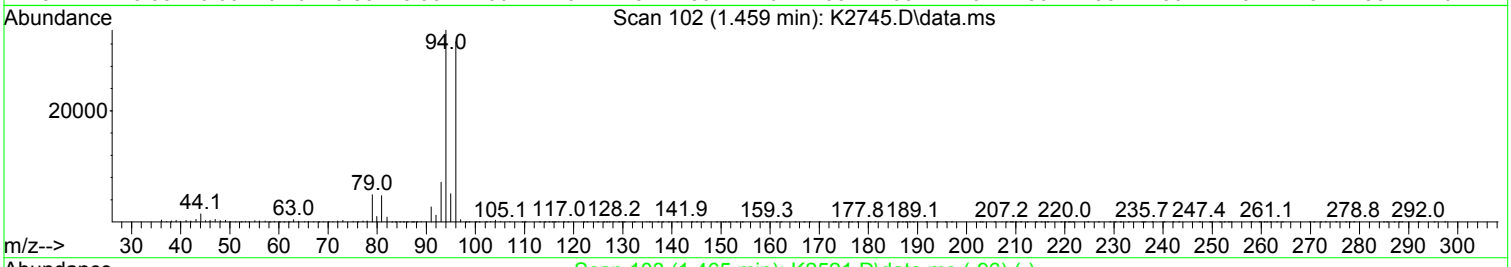
06/10/24

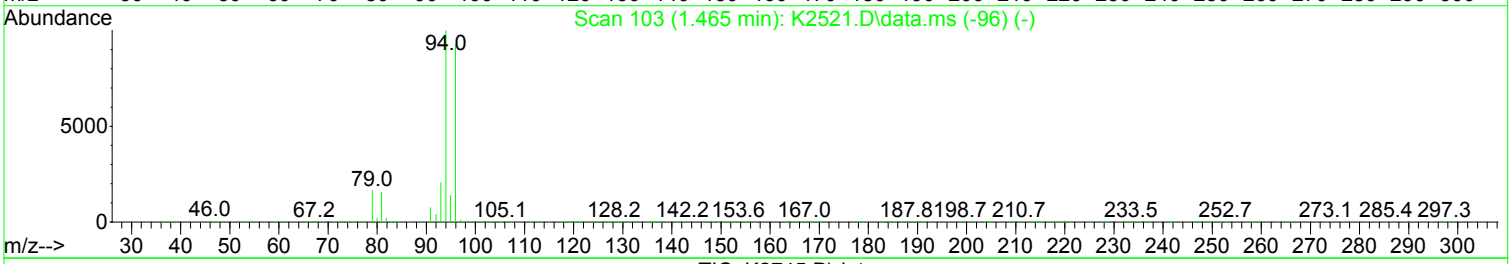
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2745.D
Acq On : 10 Jun 2024 11:49 am
Operator : K.Ruest
Sample : LCS-FP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 10 12:05:42 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2745.D\data.ms

(6) Bromomethane (P)

1.459min (-0.006) 16.48 ug/L

response 46054

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	92.50	93.92
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

06/10/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2745.D
Acq On : 10 Jun 2024 11:49 am
Operator : K.Ruest
Sample : LCS-FP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 10 12:05:42 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.989	168	460913	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.172	114	711818	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.573	117	635275	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	11.640	152	310836	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.824	113	238093	49.64	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 99.28%			
48) surr1,1,2-dichloroetha...	5.416	65	288730	49.68	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 99.36%			
65) SURR3,Toluene-d8	8.049	98	811654	48.84	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 97.68%			
70) SURR2,BFB	10.665	95	321519	51.46	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.92%			
Target Compounds						Qvalue
2) Chlorodifluoromethane	1.087	51	77894	20.072	ug/L	100
3) Dichlorodifluoromethane	1.075	85	124912	22.885	ug/L	99
4) Chloromethane	1.203	50	80466	16.443	ug/L	100
5) Vinyl Chloride	1.264	62	88317	19.120	ug/L	99
6) Bromomethane	1.459	94	53942m	19.672	ug/L	
7) Chloroethane	1.538	64	45764	15.388	ug/L	95
8) Freon 21	1.672	67	105149	16.009	ug/L	99
9) Trichlorofluoromethane	1.715	101	134769	21.361	ug/L	98
10) Diethyl Ether	1.934	59	70308	21.623	ug/L	99
11) Freon 123a	1.934	67	67050	17.384	ug/L	91
12) Freon 123	1.983	83	102039	20.455	ug/L	99
13) Acrolein	2.026	56	33429	69.526	ug/L	97
14) 1,1-Diclethene	2.105	96	70213	19.944	ug/L	95
15) Freon 113	2.111	101	74907	20.474	ug/L	100
16) Acetone	2.154	43	26597	21.165	ug/L	99
17) 2-Propanol	2.282	45	98660	372.878	ug/L	98
18) Iodomethane	2.221	142	73147	25.869	ug/L	97
19) Carbon Disulfide	2.276	76	182419	18.711	ug/L	100
20) Acetonitrile	2.404	41	78554m	111.939	ug/L	
21) Allyl Chloride	2.410	76	39459	21.771	ug/L	97
22) Methyl Acetate	2.434	43	50680	13.525	ug/L	99
23) Methylene Chloride	2.520	84	77110	20.556	ug/L	100
24) TBA	2.654	59	231340	425.668	ug/L	99
25) Acrylonitrile	2.757	53	170555	105.394	ug/L	98
26) Methyl-t-Butyl Ether	2.794	73	243536	20.786	ug/L	100
27) trans-1,2-Dichloroethene	2.782	96	74362	20.006	ug/L	99
28) 1,1-Diclethane	3.245	63	140548	20.331	ug/L	98
29) Vinyl Acetate	3.331	86	14657	31.878	ug/L #	73
30) DIPE	3.355	45	206161	20.698	ug/L	92
31) 2-Chloro-1,3-Butadiene	3.355	53	119245	20.065	ug/L	95
32) ETBE	3.843	59	236369	18.696	ug/L	100
33) 2,2-Dichloropropane	4.007	77	123001	20.365	ug/L	97
34) cis-1,2-Dichloroethene	4.019	96	87342	20.646	ug/L	97
35) 2-Butanone	4.074	43	38140	22.182	ug/L	95
36) Propionitrile	4.154	54	71249	106.785	ug/L	99
37) Bromochloromethane	4.379	130	60432	21.066	ug/L	93
38) Methacrylonitrile	4.397	67	35906	20.312	ug/L	97
39) Tetrahydrofuran	4.483	42	22894	20.204	ug/L	96
40) Chloroform	4.544	83	144876	21.319	ug/L	98

1st 06/10/24
2nd 06/14/24

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2745.D
Acq On : 10 Jun 2024 11:49 am
Operator : K.Ruest
Sample : LCS-FP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 10 12:05:42 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-Trichloroethane	4.830	97	135810	21.040	ug/L	98
42) TAME	5.763	73	224606	20.374	ug/L	98
44) Cyclohexane	4.910	41	50840	17.024	ug/L	97
46) Carbontetrachloride	5.123	117	124259	18.587	ug/L	95
47) 1,1-Dichloropropene	5.141	75	93437	18.515	ug/L	97
49) Benzene	5.495	78	285648	20.758	ug/L	99
50) 1,2-Dichloroethane	5.544	62	129176	20.358	ug/L	98
51) Iso-Butyl Alcohol	5.556	43	64892	387.119	ug/L	96
52) n-Heptane	6.025	43	84715	20.902	ug/L	99
53) 1-Butanol	6.586	56	118440	1011.919	ug/L	98
54) Trichloroethene	6.507	130	88668	19.832	ug/L	98
55) Methylcyclohexane	6.745	55	88599	17.567	ug/L	98
56) 1,2-Diclpropane	6.806	63	75914	19.319	ug/L	97
57) Dibromomethane	6.952	93	55635	20.699	ug/L	98
58) 1,4-Dioxane	7.037	88	23931	392.643	ug/L	91
59) Methyl Methacrylate	7.062	69	58274	21.645	ug/L	98
60) Bromodichloromethane	7.190	83	111063	20.487	ug/L	98
61) 2-Nitropropane	7.494	41	54006	43.289	ug/L	98
63) cis-1,3-Dichloropropene	7.750	75	120281	21.067	ug/L	99
64) 4-Methyl-2-pentanone	7.976	43	76741	20.611	ug/L	96
66) Toluene	8.122	91	324281	20.515	ug/L	99
67) trans-1,3-Dichloropropene	8.409	75	112411	21.054	ug/L	100
68) Ethyl Methacrylate	8.561	69	108651	21.131	ug/L	100
69) 1,1,2-Trichloroethane	8.598	97	76234	20.138	ug/L	96
72) Tetrachloroethene	8.726	164	67838	19.467	ug/L	97
73) 2-Hexanone	8.909	43	54107	20.250	ug/L	98
74) 1,3-Dichloropropane	8.775	76	118992	19.955	ug/L	98
75) Dibromochloromethane	9.000	129	94498	19.908	ug/L	98
76) N-Butyl Acetate	9.073	43	104013	18.166	ug/L	100
77) 1,2-Dibromoethane	9.092	107	77691	20.467	ug/L	99
78) 3-Chlorobenzotrifluoride	9.628	180	110691	17.437	ug/L	98
79) Chlorobenzene	9.598	112	223868	19.775	ug/L	99
80) 4-Chlorobenzotrifluoride	9.689	180	100110	17.465	ug/L	99
81) 1,1,1,2-Tetrachloroethane	9.695	131	88647	19.565	ug/L	96
82) Ethylbenzene	9.726	106	118831	20.005	ug/L	99
83) (m+p)Xylene	9.842	106	296556	41.265	ug/L	96
84) o-Xylene	10.201	106	143849	20.127	ug/L	97
85) Styrene	10.213	104	244880	20.807	ug/L	94
86) Bromoform	10.366	173	59968	21.212	ug/L	96
87) 2-Chlorobenzotrifluoride	10.457	180	107151	17.600	ug/L	98
88) Isopropylbenzene	10.543	105	375051	20.246	ug/L	100
89) Cyclohexanone	10.610	55	62162	151.246	ug/L	93
90) trans-1,4-Dichloro-2-B...	10.860	53	29929	20.124	ug/L	96
92) 1,1,2,2-Tetrachloroethane	10.811	83	101154	20.588	ug/L	99
93) Bromobenzene	10.780	156	100653	21.240	ug/L	98
94) 1,2,3-Trichloropropane	10.835	110	37179	20.583	ug/L	93
95) n-Propylbenzene	10.896	91	428996	21.576	ug/L	96
96) 2-Chlorotoluene	10.957	91	255439	20.845	ug/L	98
97) 3-Chlorotoluene	11.012	91	253859	19.173	ug/L	99
98) 4-Chlorotoluene	11.055	91	311190	21.927	ug/L	99
99) 1,3,5-Trimethylbenzene	11.055	105	324976	20.832	ug/L	98
100) tert-Butylbenzene	11.329	119	287467	20.994	ug/L	99
101) 1,2,4-Trimethylbenzene	11.366	105	323768	20.748	ug/L	100
102) 3,4-Dichlorobenzotrifl...	11.433	214	77735	17.726	ug/L	98
103) sec-Butylbenzene	11.512	105	405749	21.523	ug/L	99
104) p-Isopropyltoluene	11.634	119	356302	21.593	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2745.D
Acq On : 10 Jun 2024 11:49 am
Operator : K.Ruest
Sample : LCS-FP
Misc :
ALS Vial : 1 Sample Multiplier: 1

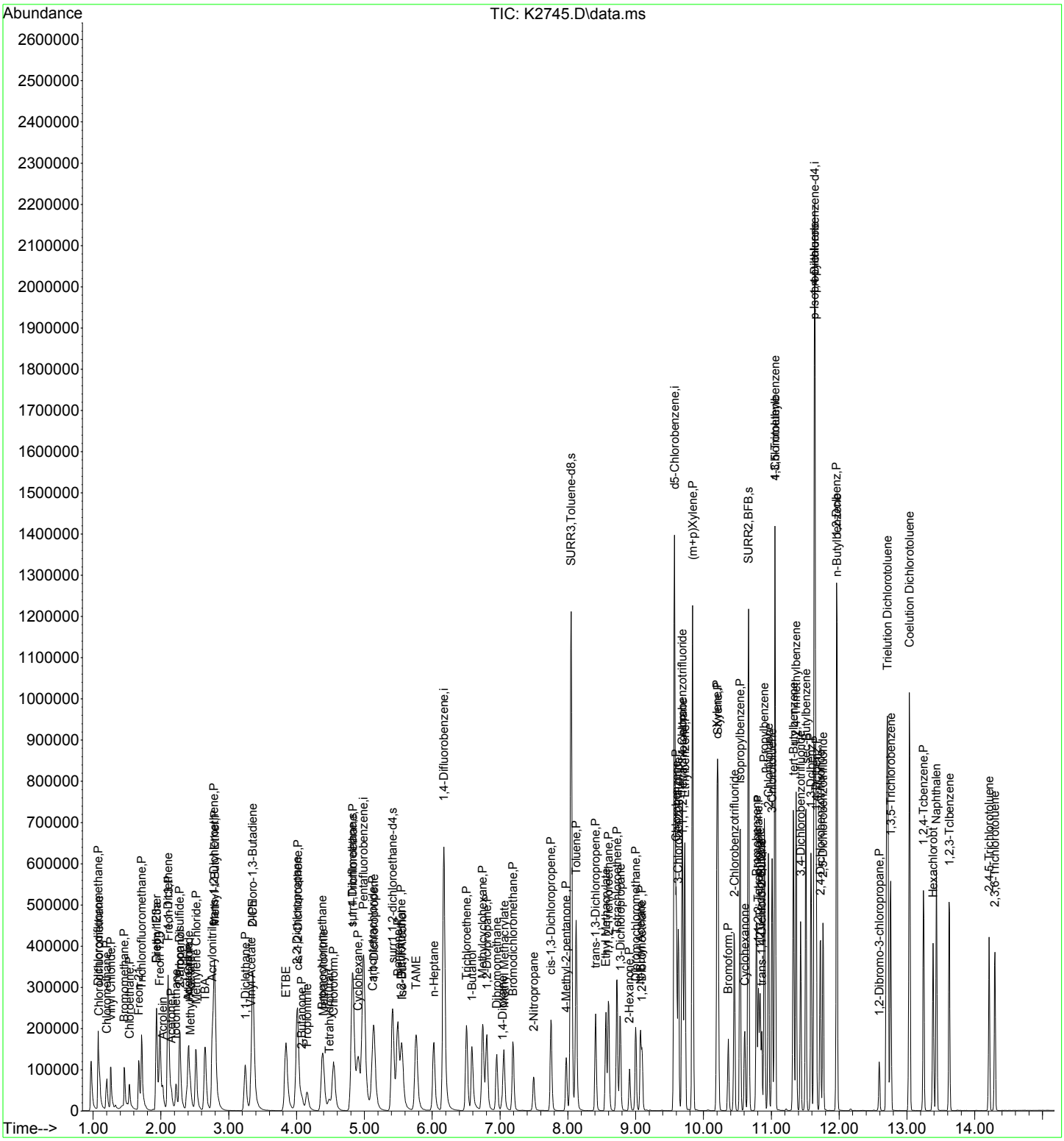
Quant Time: Jun 10 12:05:42 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.585	146	191868	20.930	ug/L	99
106) 1,4-Dclbenz	11.664	146	192137	20.638	ug/L	98
107) 2,4-Dichlorobenzotrifl...	11.725	214	70453	18.338	ug/L	100
108) 2,5-Dichlorobenzotrifl...	11.762	214	78814	18.329	ug/L	95
109) n-Butylbenzene	11.969	91	305768	22.097	ug/L	99
110) 1,2-Dclbenz	11.963	146	184199	20.623	ug/L	98
111) 1,2-Dibromo-3-chloropr...	12.591	157	24368	19.803	ug/L	98
112) Trielution Dichlorotol...	12.713	125	479977	59.018	ug/L	99
113) 1,3,5-Trichlorobenzene	12.762	180	118843	18.858	ug/L	97
114) Coelution Dichlorotoluene	13.036	125	340242	39.449	ug/L	98
115) 1,2,4-Tcbenzene	13.243	180	119463	20.716	ug/L	97
116) Hexachlorobt	13.384	225	52834	20.891	ug/L	98
117) Naphthalen	13.432	128	353326	21.130	ug/L	99
118) 1,2,3-Tclbenzene	13.627	180	113899	20.881	ug/L	98
119) 2,4,5-Trichlorotoluene	14.213	159	84033	19.913	ug/L	99
120) 2,3,6-Trichlorotoluene	14.298	159	75729	20.956	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2745.D
Acq On : 10 Jun 2024 11:49 am
Operator : K.Ruest
Sample : LCS-FP
Misc :
ALS Vial : 1 Sample Multiplier: 1

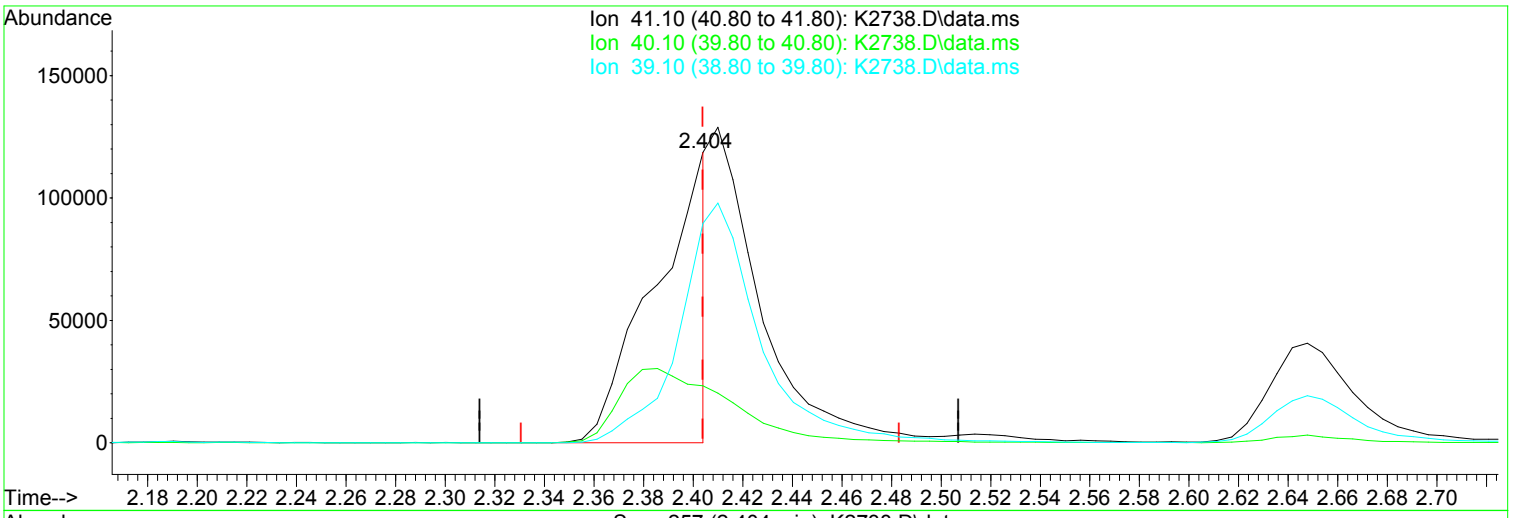
Quant Time: Jun 10 12:05:42 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

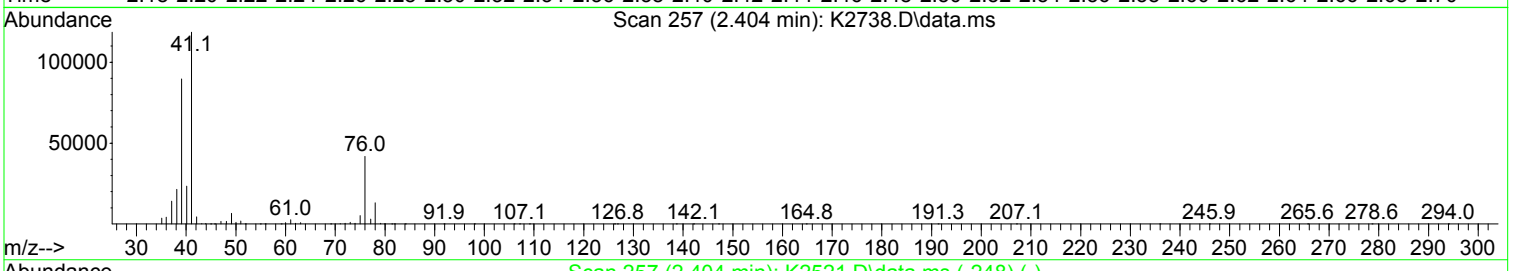


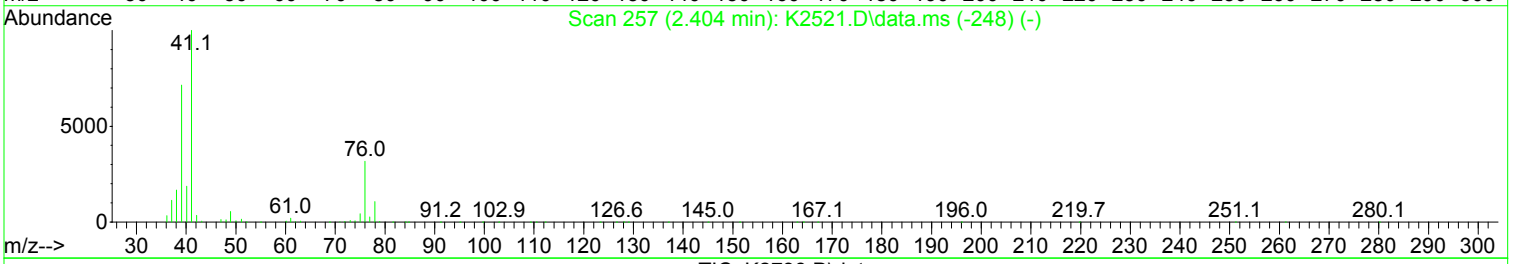
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2738.D
Acq On : 09 Jun 2024 08:21 pm
Operator : K.Ruest
Sample : R2404674-011MS|1.0
Misc : CIVIL 8260 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 10 09:43:35 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2738.D\data.ms

(20) Acetonitrile

2.404min (-0.000) 267.50 ug/L m

response 178459

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	18.80	19.69
39.10	71.30	75.55
0.00	0.00	0.00

Manual Integration:

After

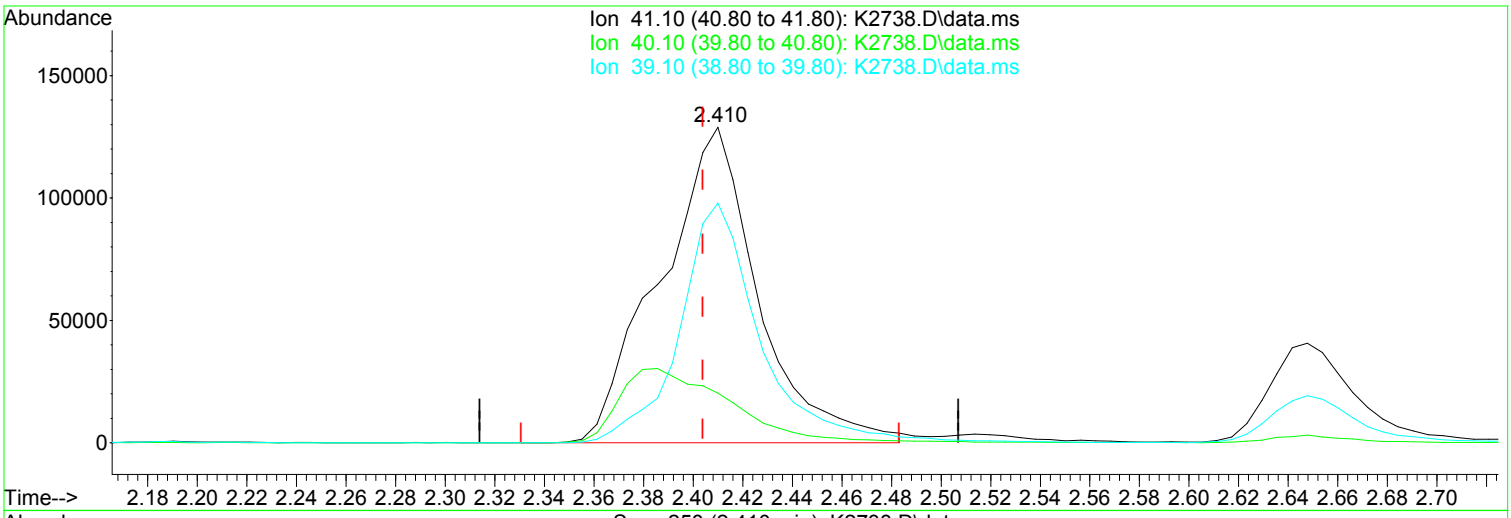
Poor integration.

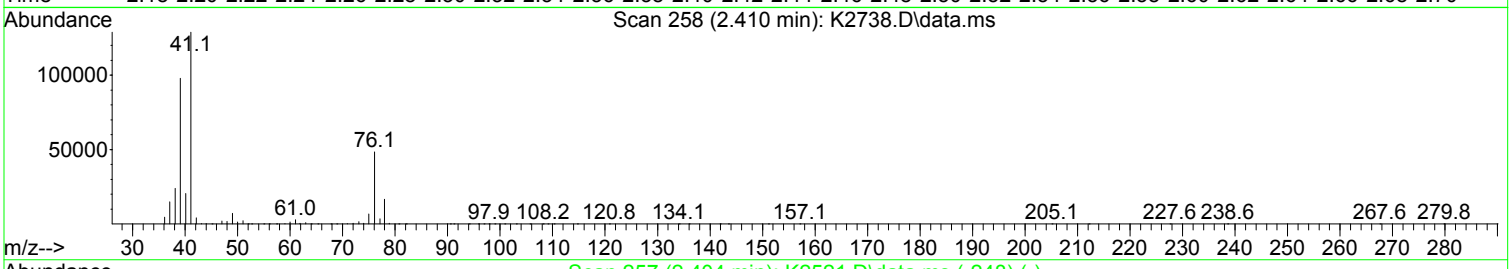
06/10/24

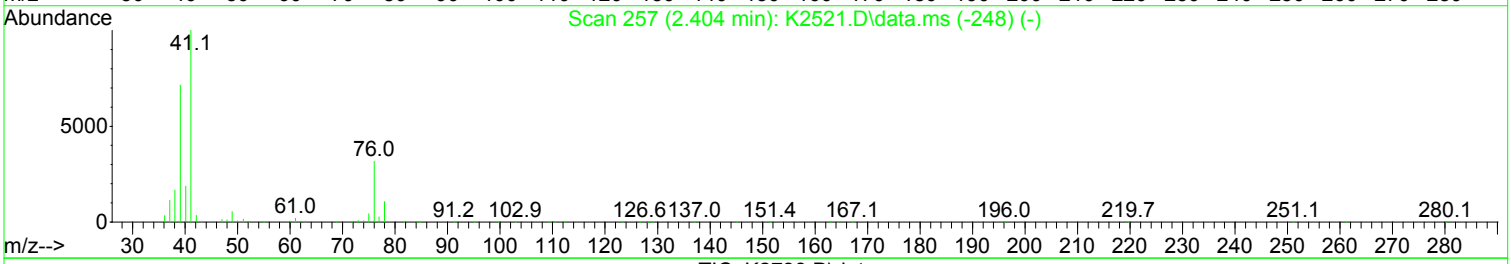
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2738.D
Acq On : 09 Jun 2024 08:21 pm
Operator : K.Ruest
Sample : R2404674-011MS|1.0
Misc : CIVIL 8260 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 10 09:43:35 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2738.D\data.ms

(20) Acetonitrile

2.410min (+ 0.006) 530.77 ug/L

response 354103

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	18.80	15.80
39.10	71.30	76.04
0.00	0.00	0.00

Manual Integration:

Before

06/10/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2738.D
Acq On : 09 Jun 2024 08:21 pm
Operator : K.Ruest
Sample : R2404674-011MS|1.0
Misc : CIVIL 8260 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 10 09:43:35 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.995	168	438183	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.178	114	689775	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.573	117	613627	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	11.646	152	301337	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.830	113	233516	50.24	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 100.48%			
48) surr1,1,2-dichloroetha...	5.415	65	281964	50.07	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.14%			
65) SURR3,Toluene-d8	8.049	98	814512	50.57	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.14%			
70) SURR2,BFB	10.665	95	320827	53.00	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 106.00%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.075	85	311129	59.957	ug/L	99
4) Chloromethane	1.209	50	198935	43.810	ug/L	99
5) Vinyl Chloride	1.264	62	232642	52.977	ug/L	97
6) Bromomethane	1.465	94	86022	36.538	ug/L	96
7) Chloroethane	1.538	64	122518	43.334	ug/L	98
9) Trichlorofluoromethane	1.721	101	347858	57.995	ug/L	99
10) Diethyl Ether	1.934	59	174138	56.334	ug/L	99
14) 1,1-Diclethene	2.105	96	181986	54.374	ug/L	94
15) Freon 113	2.111	101	186696	53.676	ug/L	97
16) Acetone	2.160	43	8809	5.637	ug/L	99
18) Iodomethane	2.227	142	9854	3.666	ug/L	95
20) Acetonitrile	2.404	41	178459m	267.496	ug/L	
21) Allyl Chloride	2.410	76	100622	58.396	ug/L	97
23) Methylene Chloride	2.520	84	195277	54.757	ug/L	97
24) TBA	2.648	59	594713	1151.041	ug/L	98
25) Acrylonitrile	2.757	53	423135	275.040	ug/L	99
26) Methyl-t-Butyl Ether	2.800	73	592343	53.180	ug/L	99
27) trans-1,2-Dichloroethene	2.788	96	193916	54.877	ug/L	98
28) 1,1-Diclethane	3.245	63	355350	54.069	ug/L	96
33) 2,2-Dichloropropane	4.007	77	276661	48.183	ug/L	99
34) cis-1,2-Dichloroethene	4.019	96	230662	57.351	ug/L	96
36) Propionitrile	4.154	54	177838	280.361	ug/L	95
37) Bromochloromethane	4.385	130	154250	56.559	ug/L	95
38) Methacrylonitrile	4.397	67	90534	53.872	ug/L	93
39) Tetrahydrofuran	4.477	42	58809	54.590	ug/L	95
40) Chloroform	4.550	83	360230	55.758	ug/L	97
41) 1,1,1-Trichloroethane	4.830	97	349914	57.020	ug/L	99
46) Carbontetrachloride	5.135	117	315535	48.706	ug/L	98
47) 1,1-Dichloropropene	5.147	75	235371	48.130	ug/L	99
49) Benzene	5.495	78	729842	54.732	ug/L	99
50) 1,2-Dichloroethane	5.550	62	316066	51.403	ug/L	98
51) Iso-Butyl Alcohol	5.562	43	179609	1105.714	ug/L	99
52) n-Heptane	6.025	43	174516	44.434	ug/L	99
54) Trichloroethene	6.507	130	230470	53.196	ug/L	98
56) 1,2-Diclpropane	6.806	63	192431	50.536	ug/L	96
57) Dibromomethane	6.952	93	140532	53.957	ug/L	92
58) 1,4-Dioxane	7.031	88	53079	898.713	ug/L	97
59) Methyl Methacrylate	7.062	69	149522	57.313	ug/L	99
60) Bromodichloromethane	7.196	83	280039	53.307	ug/L	97

1st 06/10/24
2nd 06/10/24

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2738.D
Acq On : 09 Jun 2024 08:21 pm
Operator : K.Ruest
Sample : R2404674-011MS|1.0
Misc : CIVIL 8260 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 10 09:43:35 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

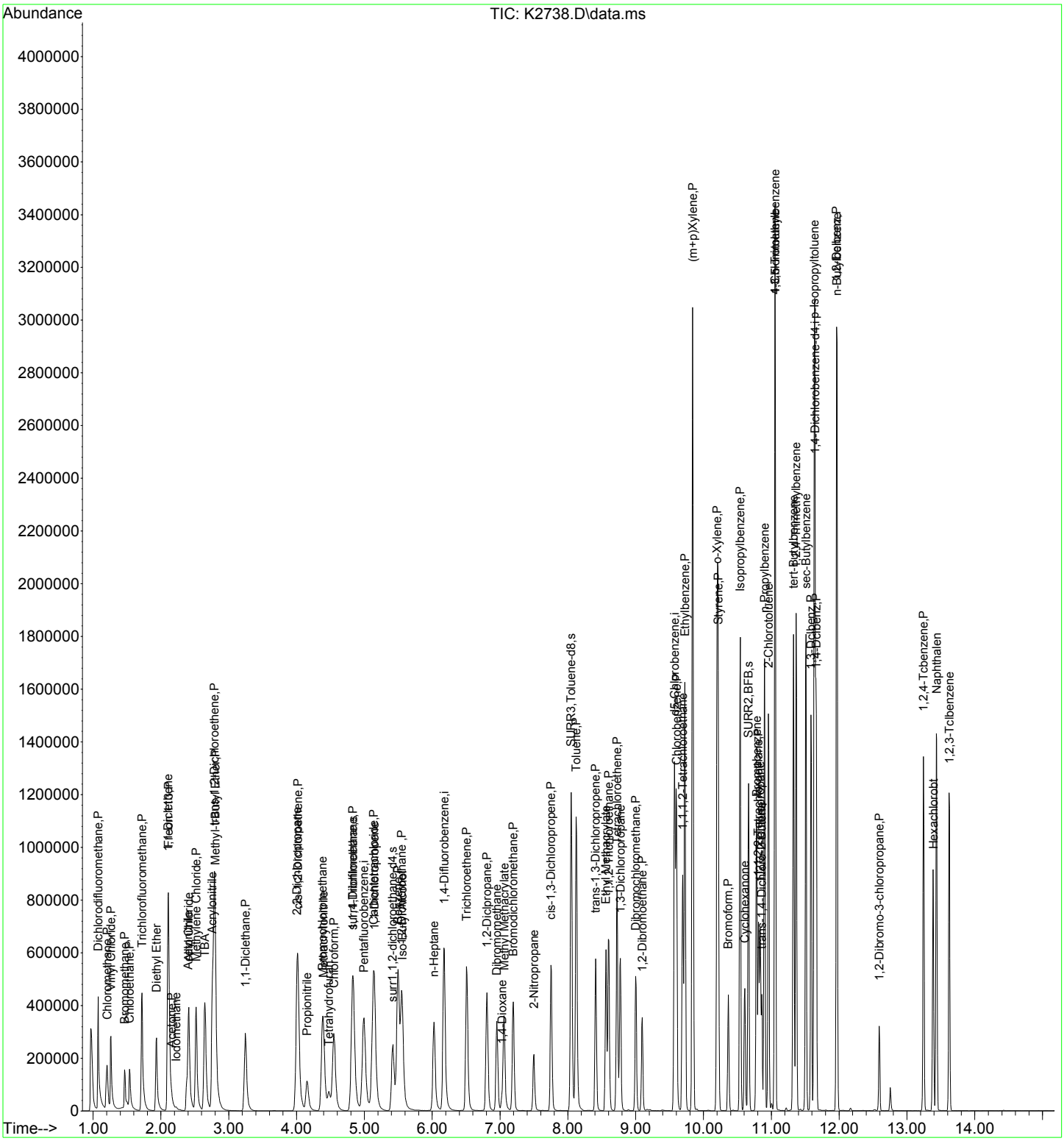
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
61) 2-Nitropropane	7.500	41	138087	114.223	ug/L	94
63) cis-1,3-Dichloropropene	7.750	75	299889	54.204	ug/L	99
66) Toluene	8.122	91	820016	53.534	ug/L	99
67) trans-1,3-Dichloropropene	8.409	75	280783	54.270	ug/L	98
68) Ethyl Methacrylate	8.561	69	272770	54.745	ug/L	99
69) 1,1,2-Trichloroethane	8.604	97	190628	51.966	ug/L	97
72) Tetrachloroethene	8.726	164	170855	50.757	ug/L	97
74) 1,3-Dichloropropane	8.775	76	298292	51.790	ug/L	99
75) Dibromochloromethane	9.000	129	238678	52.058	ug/L	100
77) 1,2-Dibromoethane	9.098	107	201230	54.882	ug/L	99
79) Chlorobenzene	9.604	112	554307	50.690	ug/L	98
81) 1,1,1,2-Tetrachloroethane	9.695	131	218618	49.952	ug/L	99
82) Ethylbenzene	9.726	106	301482	52.545	ug/L	97
83) (m+p)Xylene	9.842	106	733157	105.615	ug/L	96
84) o-Xylene	10.201	106	358416	51.918	ug/L	98
85) Styrene	10.220	104	607441	53.434	ug/L	99
86) Bromoform	10.366	173	152865	55.979	ug/L	97
88) Isopropylbenzene	10.543	105	935050	52.256	ug/L	99
89) Cyclohexanone	10.610	55	154753	389.813	ug/L	99
90) trans-1,4-Dichloro-2-B...	10.860	53	69859	48.630	ug/L	96
92) 1,1,2,2-Tetrachloroethane	10.811	83	252919	53.100	ug/L	100
93) Bromobenzene	10.787	156	247764	53.932	ug/L	92
94) 1,2,3-Trichloropropane	10.835	110	90746	51.823	ug/L	95
95) n-Propylbenzene	10.902	91	1053116	54.635	ug/L	99
96) 2-Chlorotoluene	10.957	91	638272	53.729	ug/L	99
98) 4-Chlorotoluene	11.055	91	752741	54.710	ug/L	99
99) 1,3,5-Trimethylbenzene	11.055	105	788940	52.167	ug/L	100
100) tert-Butylbenzene	11.329	119	710138	53.497	ug/L	99
101) 1,2,4-Trimethylbenzene	11.366	105	793689	52.466	ug/L	100
103) sec-Butylbenzene	11.512	105	974508	53.322	ug/L	100
104) p-Isopropyltoluene	11.634	119	863609	53.988	ug/L	98
105) 1,3-Dclbenz	11.585	146	468420	52.708	ug/L	99
106) 1,4-Dclbenz	11.664	146	462823	51.280	ug/L	99
109) n-Butylbenzene	11.969	91	721123	53.755	ug/L	99
110) 1,2-Dclbenz	11.963	146	446215	51.534	ug/L	99
111) 1,2-Dibromo-3-chloropr...	12.591	157	64721	54.254	ug/L	93
115) 1,2,4-Tcbenzene	13.243	180	283804	50.765	ug/L	97
116) Hexachlorobt	13.390	225	113603	46.336	ug/L	97
117) Naphthalen	13.438	128	890581	54.938	ug/L	100
118) 1,2,3-Tclbenzene	13.627	180	272688	51.567	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st 06/10/24
2nd 06/10/24

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2738.D
Acq On : 09 Jun 2024 08:21 pm
Operator : K.Ruest
Sample : R2404674-011MS|1.0
Misc : CIVIL 8260 T4
ALS Vial : 24 Sample Multiplier: 1

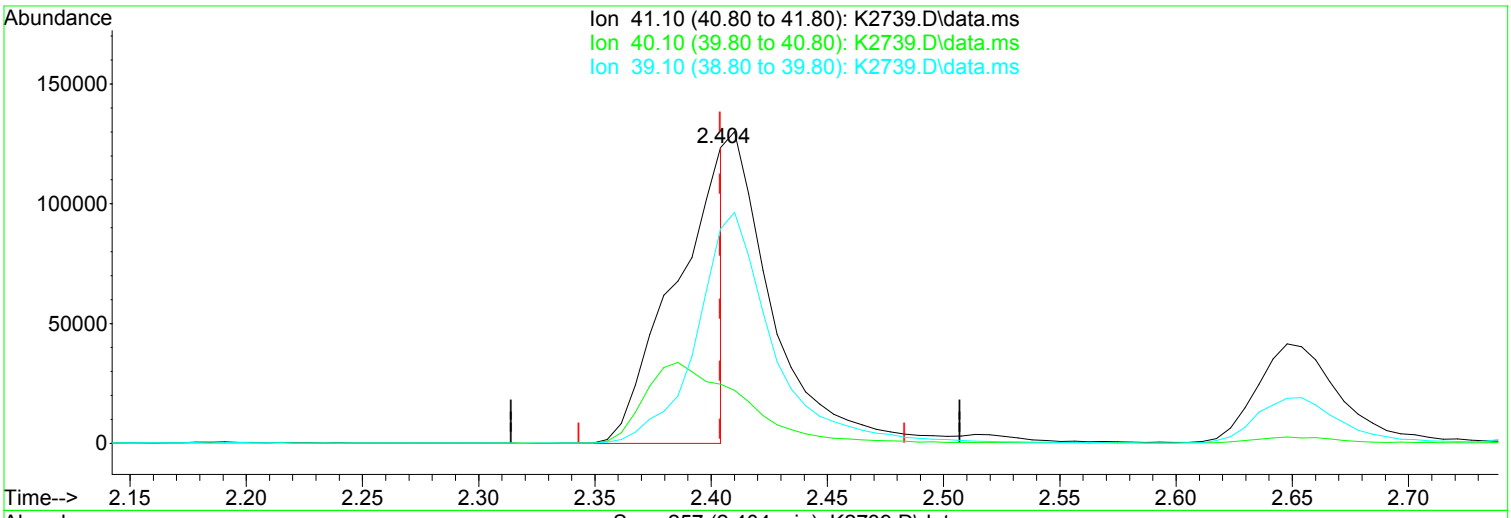
Quant Time: Jun 10 09:43:35 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

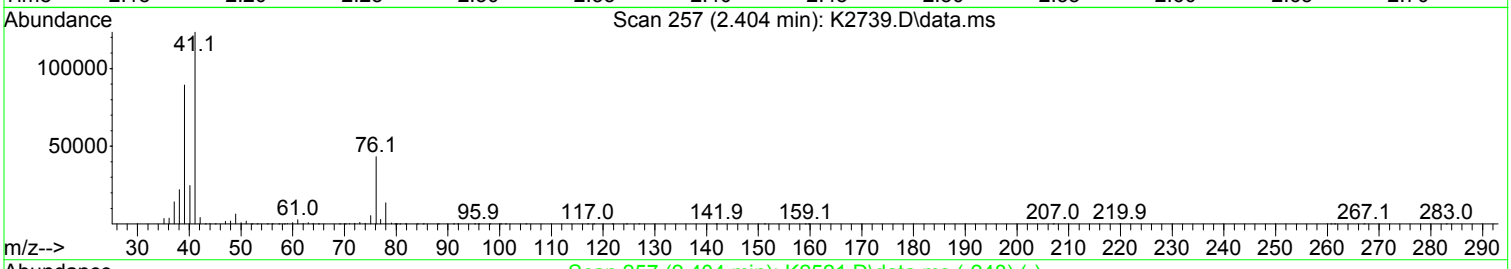


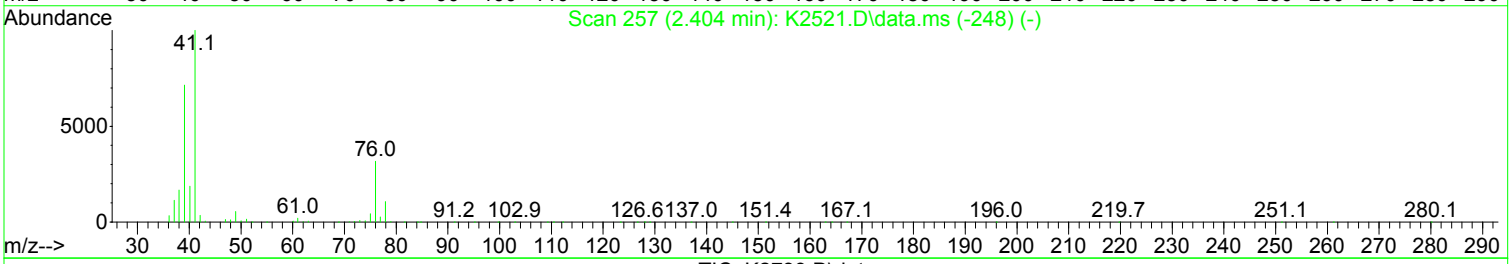
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2739.D
Acq On : 09 Jun 2024 08:44 pm
Operator : K.Ruest
Sample : R2404674-011DMS|1.0
Misc : CIVIL 8260 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 10 09:43:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2739.D\data.ms

(20) Acetonitrile

2.404min (+ 0.000) 284.00 ug/L m

response 187278

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	18.80	20.03
39.10	71.30	72.49
0.00	0.00	0.00

Manual Integration:

After

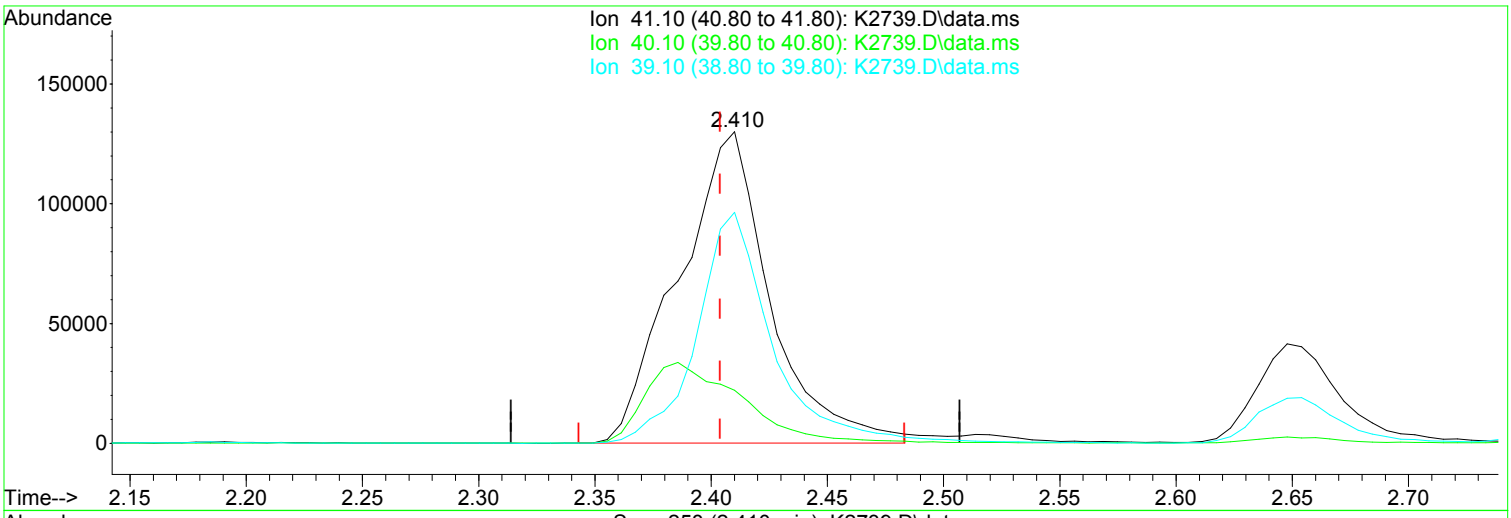
Poor integration.

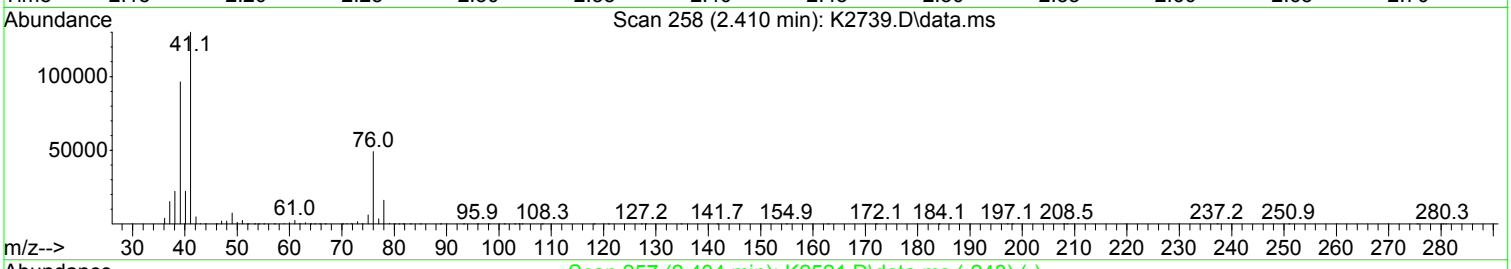
06/10/24

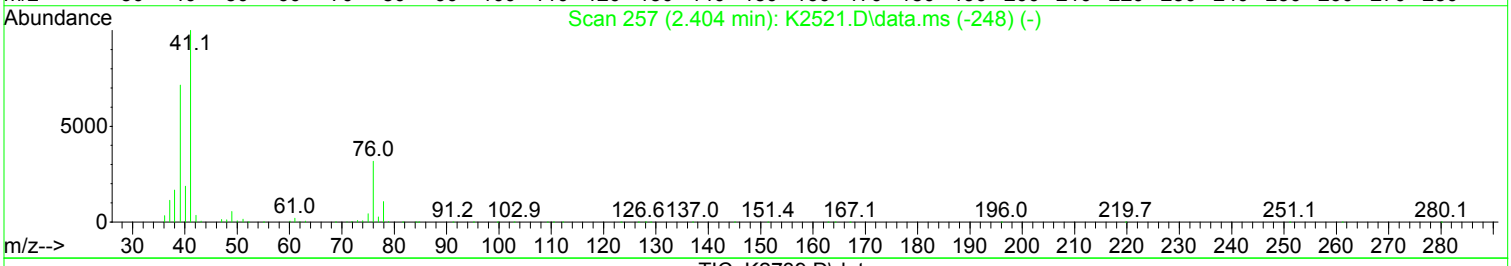
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2739.D
Acq On : 09 Jun 2024 08:44 pm
Operator : K.Ruest
Sample : R2404674-011DMS|1.0
Misc : CIVIL 8260 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 10 09:43:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2739.D\data.ms

(20) Acetonitrile

2.410min (+ 0.006) 541.71 ug/L

response 357219

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	18.80	16.98
39.10	71.30	74.09
0.00	0.00	0.00

Manual Integration:

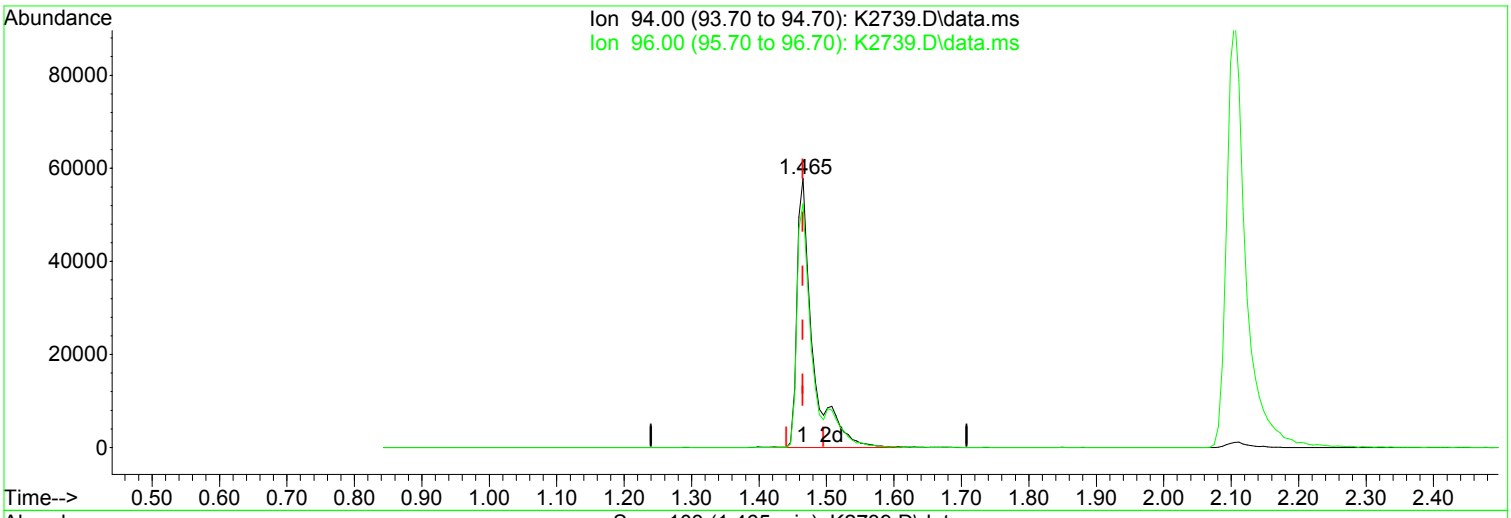
Before

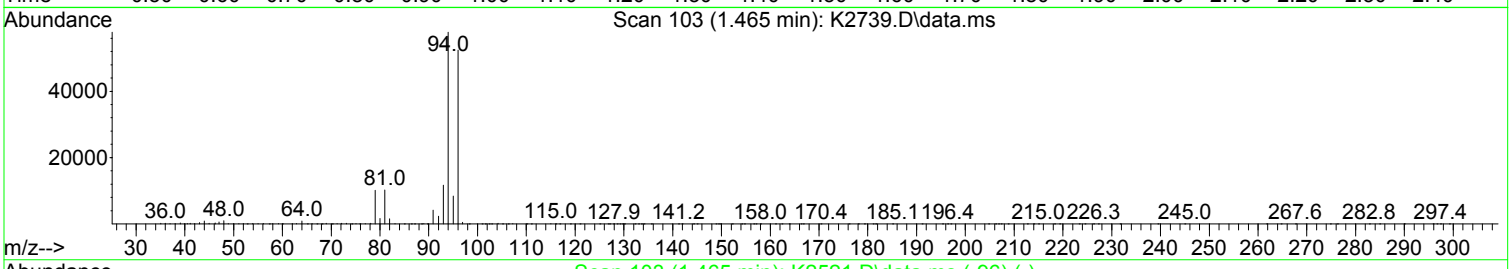
06/10/24

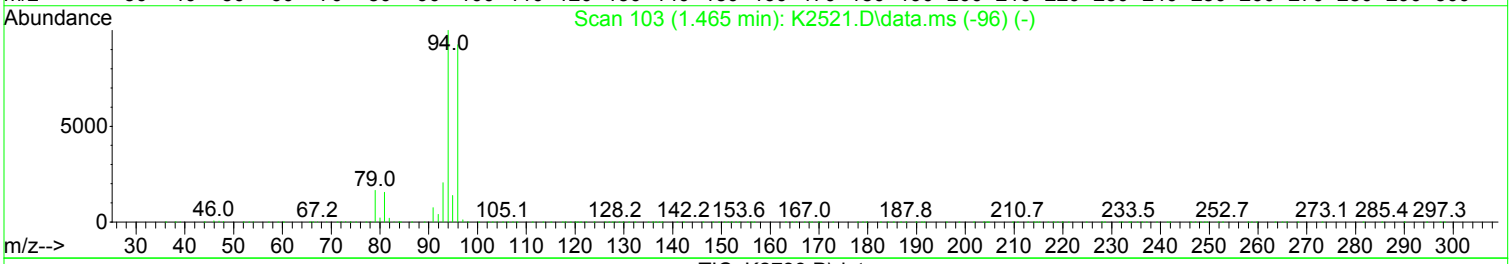
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2739.D
Acq On : 09 Jun 2024 08:44 pm
Operator : K.Ruest
Sample : R2404674-011DMS|1.0
Misc : CIVIL 8260 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 10 09:43:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2739.D\data.ms

(6) Bromomethane (P)

1.465min (+ 0.000) 41.39 ug/L m

response 93398

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	92.50	90.69
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

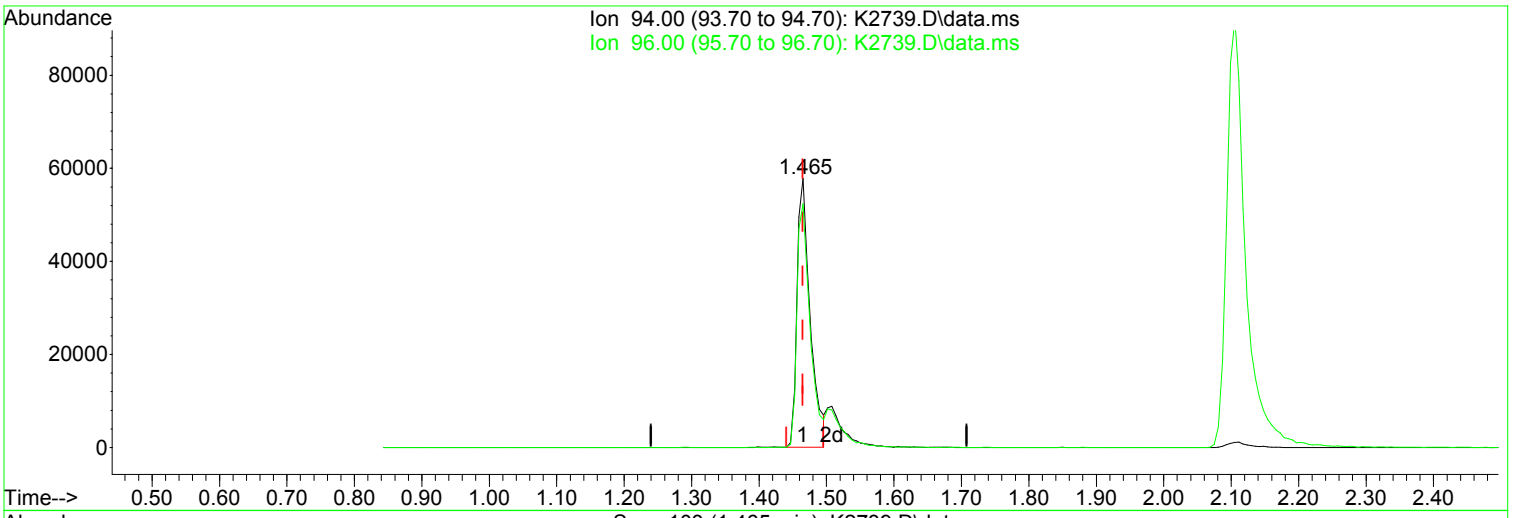
Split Peak.

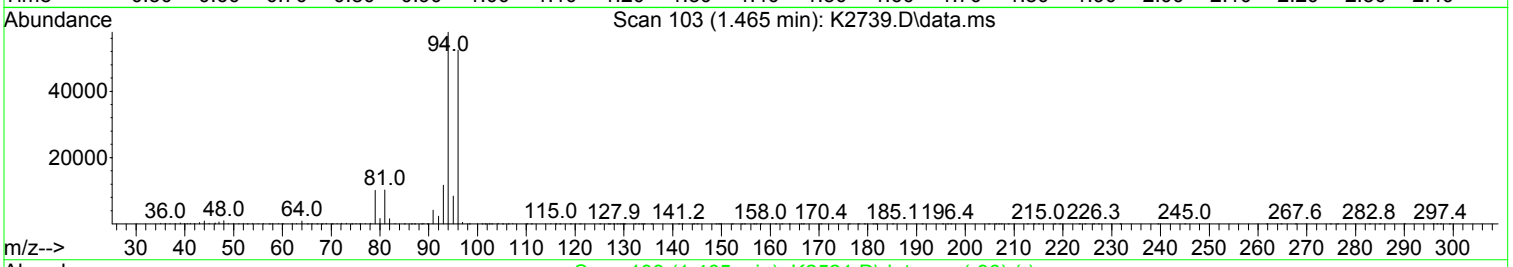
06/10/24

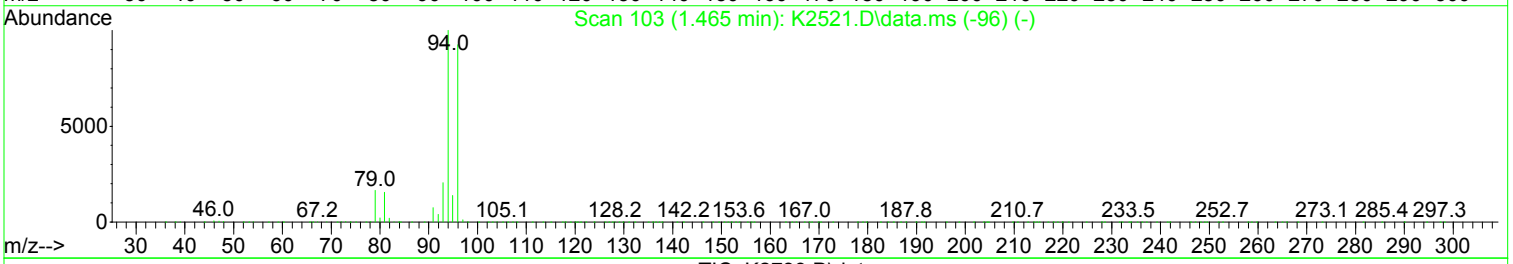
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2739.D
Acq On : 09 Jun 2024 08:44 pm
Operator : K.Ruest
Sample : R2404674-011DMS|1.0
Misc : CIVIL 8260 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 10 09:43:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2739.D\data.ms

(6) Bromomethane (P)

1.465min (+ 0.000) 32.47 ug/L

response 77483

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	92.50	90.69
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

06/10/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2739.D
Acq On : 09 Jun 2024 08:44 pm
Operator : K.Ruest
Sample : R2404674-011DMS|1.0
Misc : CIVIL 8260 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 10 09:43:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.995	168	433114	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.172	114	683909	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.573	117	609050	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	11.646	152	302320	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.830	113	230682	50.06	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 100.12%			
48) surr1,1,2-dichloroetha...	5.416	65	285723	51.17	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.34%			
65) SURR3,Toluene-d8	8.049	98	786584	49.26	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 98.52%			
70) SURR2,BFB	10.665	95	302127	50.33	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.66%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.075	85	309789	60.398	ug/L	99
4) Chloromethane	1.203	50	199388	44.444	ug/L	99
5) Vinyl Chloride	1.264	62	227977	52.523	ug/L	99
6) Bromomethane	1.465	94	93398m	41.391	ug/L	
7) Chloroethane	1.538	64	120080	42.969	ug/L	99
9) Trichlorofluoromethane	1.715	101	344800	58.157	ug/L	98
10) Diethyl Ether	1.935	59	170831	55.911	ug/L	96
14) 1,1-Diclethene	2.105	96	180639	54.603	ug/L	93
15) Freon 113	2.111	101	185574	53.978	ug/L	95
16) Acetone	2.154	43	9424	6.328	ug/L	97
18) Iodomethane	2.227	142	9990	3.760	ug/L	94
20) Acetonitrile	2.404	41	187278m	284.000	ug/L	
21) Allyl Chloride	2.410	76	99937	58.677	ug/L	99
23) Methylene Chloride	2.520	84	191394	54.296	ug/L	99
24) TBA	2.648	59	627718	1229.140	ug/L	98
25) Acrylonitrile	2.758	53	424680	279.275	ug/L	100
26) Methyl-t-Butyl Ether	2.794	73	597369	54.258	ug/L	100
27) trans-1,2-Dichloroethene	2.782	96	189708	54.314	ug/L	99
28) 1,1-Diclethane	3.245	63	354644	54.593	ug/L	99
33) 2,2-Dichloropropane	4.007	77	274452	48.358	ug/L	99
34) cis-1,2-Dichloroethene	4.020	96	228643	57.515	ug/L	98
36) Propionitrile	4.154	54	180644	288.118	ug/L	100
37) Bromochloromethane	4.379	130	152328	56.508	ug/L	90
38) Methacrylonitrile	4.398	67	92274	55.550	ug/L	94
39) Tetrahydrofuran	4.477	42	59859	56.215	ug/L	100
40) Chloroform	4.550	83	358483	56.137	ug/L	97
41) 1,1,1-Trichloroethane	4.830	97	355859	58.668	ug/L	99
46) Carbontetrachloride	5.129	117	322504	50.208	ug/L	97
47) 1,1-Dichloropropene	5.147	75	235330	48.535	ug/L	98
49) Benzene	5.495	78	724091	54.766	ug/L	99
50) 1,2-Dichloroethane	5.550	62	317308	52.047	ug/L	97
51) Iso-Butyl Alcohol	5.562	43	190908	1185.353	ug/L	97
52) n-Heptane	6.025	43	184677	47.424	ug/L	99
54) Trichloroethene	6.507	130	230422	53.642	ug/L	98
56) 1,2-Diclpropane	6.806	63	192215	50.912	ug/L	99
57) Dibromomethane	6.952	93	138808	53.752	ug/L	93
58) 1,4-Dioxane	7.031	88	61435	1049.116	ug/L	95
59) Methyl Methacrylate	7.062	69	148509	57.413	ug/L	96
60) Bromodichloromethane	7.196	83	281487	54.042	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2739.D
Acq On : 09 Jun 2024 08:44 pm
Operator : K.Ruest
Sample : R2404674-011DMS|1.0
Misc : CIVIL 8260 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 10 09:43:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

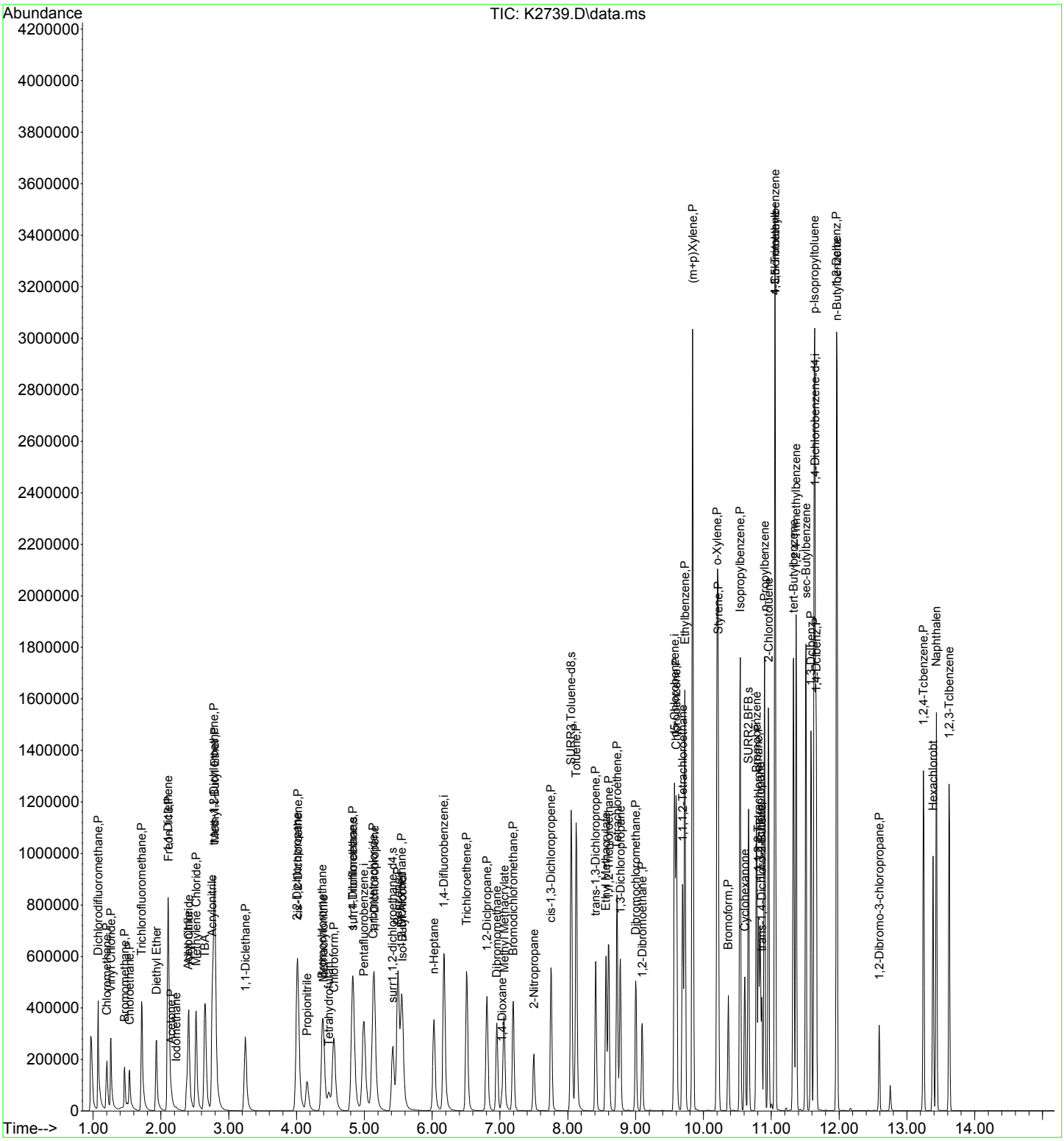
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
61) 2-Nitropropane	7.501	41	140239	116.998	ug/L	93
63) cis-1,3-Dichloropropene	7.751	75	298382	54.394	ug/L	98
66) Toluene	8.122	91	814096	53.603	ug/L	100
67) trans-1,3-Dichloropropene	8.409	75	281768	54.927	ug/L	99
68) Ethyl Methacrylate	8.561	69	273868	55.437	ug/L	98
69) 1,1,2-Trichloroethane	8.604	97	190786	52.456	ug/L	96
72) Tetrachloroethene	8.726	164	168524	50.441	ug/L	97
74) 1,3-Dichloropropane	8.775	76	293713	51.378	ug/L	97
75) Dibromochloromethane	9.000	129	242186	53.220	ug/L	99
77) 1,2-Dibromoethane	9.098	107	202352	55.602	ug/L	100
79) Chlorobenzene	9.598	112	546932	50.391	ug/L	97
81) 1,1,1,2-Tetrachloroethane	9.695	131	216689	49.883	ug/L	99
82) Ethylbenzene	9.726	106	306524	53.825	ug/L	96
83) (m+p)Xylene	9.842	106	735690	106.776	ug/L	98
84) o-Xylene	10.201	106	363149	52.999	ug/L	99
85) Styrene	10.220	104	622597	55.179	ug/L	99
86) Bromoform	10.366	173	153273	56.551	ug/L	95
88) Isopropylbenzene	10.543	105	936958	52.756	ug/L	100
89) Cyclohexanone	10.610	55	168815	428.430	ug/L	98
90) trans-1,4-Dichloro-2-B...	10.860	53	70546	49.477	ug/L	96
92) 1,1,2,2-Tetrachloroethane	10.811	83	252687	52.879	ug/L	99
93) Bromobenzene	10.781	156	248269	53.866	ug/L	99
94) 1,2,3-Trichloropropane	10.835	110	90960	51.777	ug/L	94
95) n-Propylbenzene	10.902	91	1055663	54.589	ug/L	99
96) 2-Chlorotoluene	10.957	91	646487	54.243	ug/L	100
98) 4-Chlorotoluene	11.055	91	764781	55.405	ug/L	100
99) 1,3,5-Trimethylbenzene	11.055	105	792562	52.236	ug/L	100
100) tert-Butylbenzene	11.329	119	718928	53.983	ug/L	99
101) 1,2,4-Trimethylbenzene	11.366	105	803899	52.968	ug/L	98
103) sec-Butylbenzene	11.512	105	983148	53.620	ug/L	100
104) p-Isopropyltoluene	11.634	119	874423	54.487	ug/L	99
105) 1,3-Dclbenz	11.585	146	461461	51.756	ug/L	100
106) 1,4-Dclbenz	11.665	146	471793	52.104	ug/L	99
109) n-Butylbenzene	11.969	91	732078	54.394	ug/L	98
110) 1,2-Dclbenz	11.963	146	453495	52.204	ug/L	99
111) 1,2-Dibromo-3-chloropr...	12.591	157	66157	55.277	ug/L	97
115) 1,2,4-Tcbenzene	13.243	180	289440	51.605	ug/L	97
116) Hexachlorobt	13.384	225	121132	49.246	ug/L	99
117) Naphthalen	13.432	128	901614	55.438	ug/L	100
118) 1,2,3-Tclbenzene	13.621	180	278888	52.568	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2739.D
Acq On : 09 Jun 2024 08:44 pm
Operator : K.Ruest
Sample : R2404674-011DMS|1.0
Misc : CIVIL 8260 T4
ALS Vial : 25 Sample Multiplier: 1

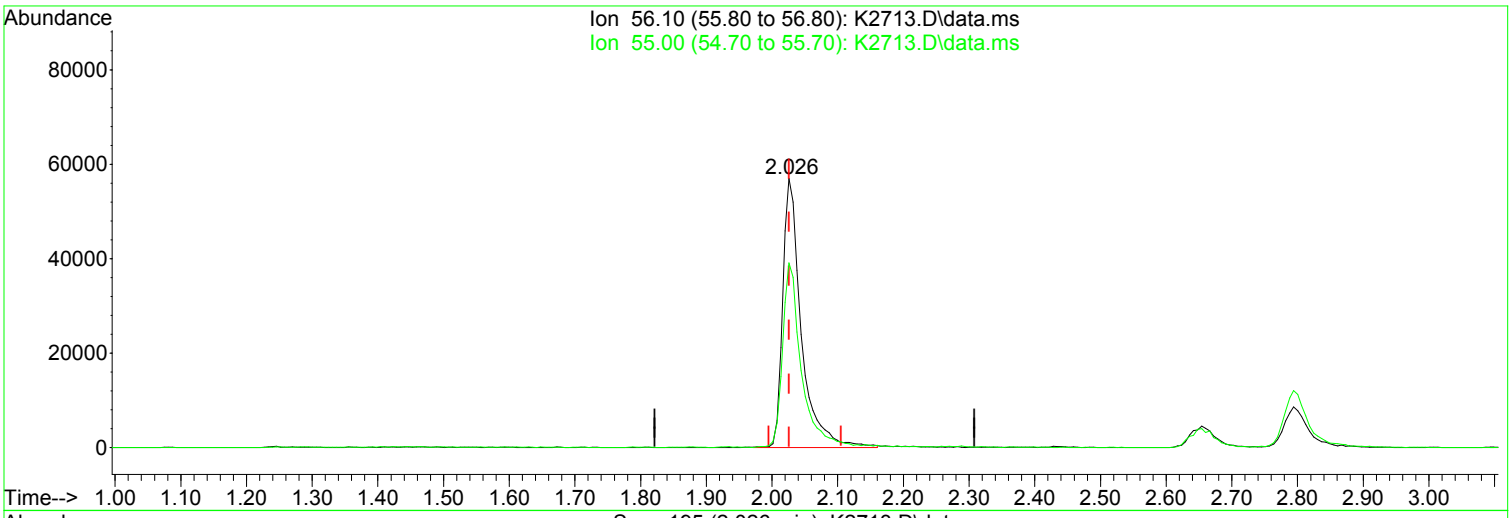
Quant Time: Jun 10 09:43:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

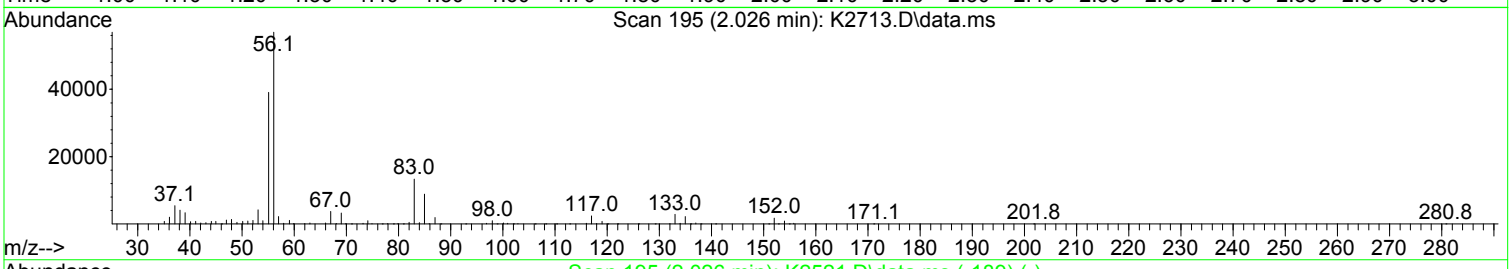


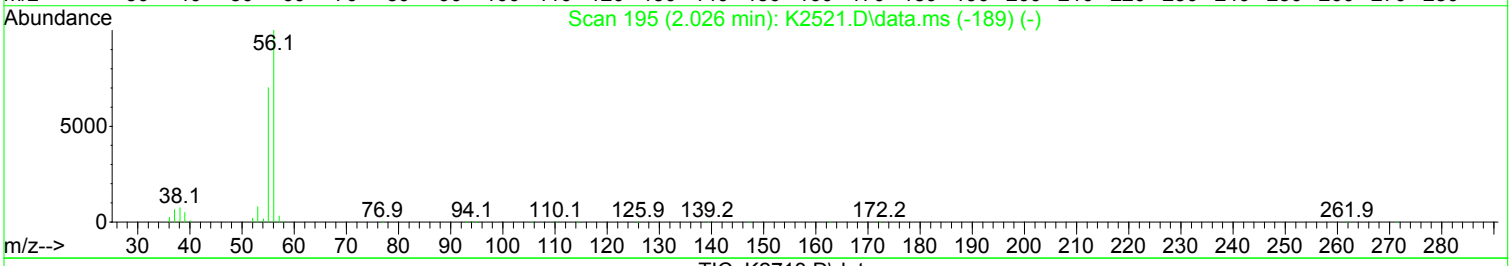
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2713.D
Acq On : 09 Jun 2024 10:28 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 09 10:44:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2713.D\data.ms

(13) Acrolein

2.026min (-0.000) 239.96 ug/L m

response 112139

Ion	Exp%	Act%
56.10	100.00	100.00
55.00	70.30	68.61
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

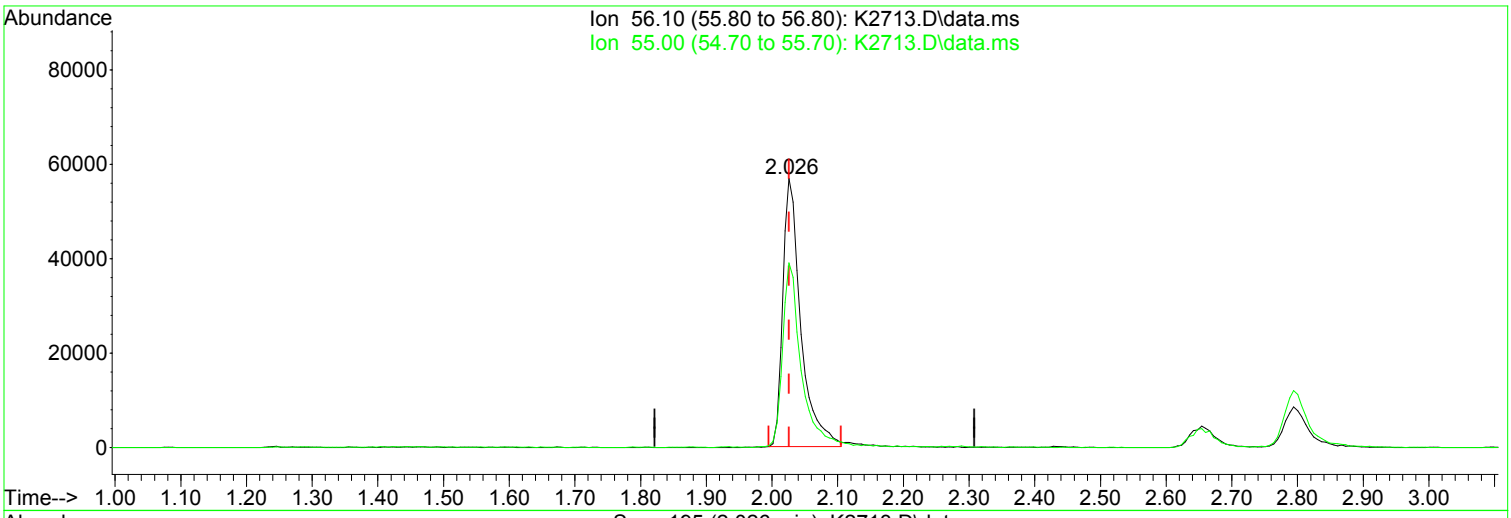
Poor integration.

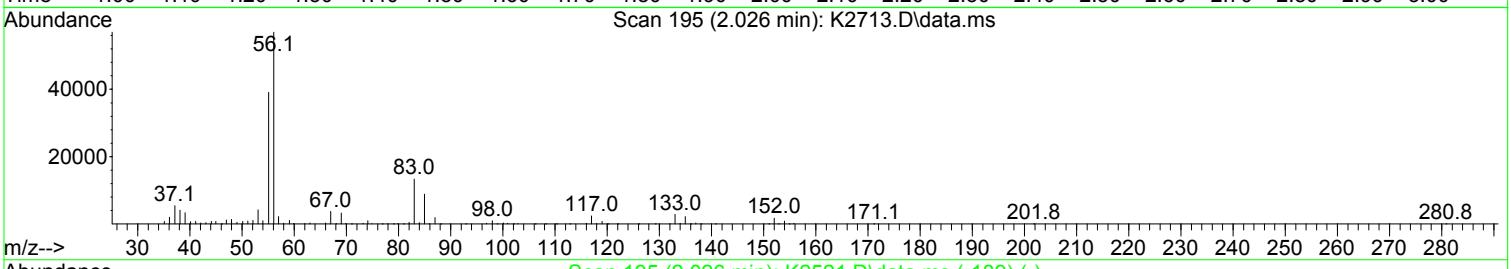
06/09/24

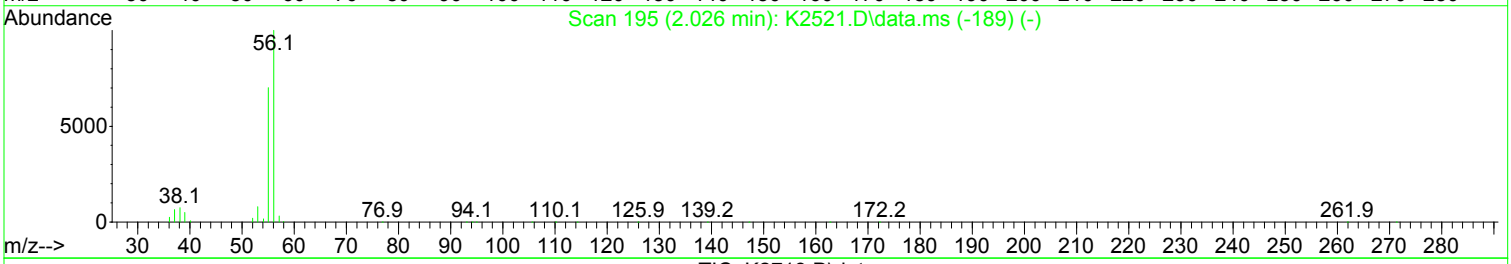
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2713.D
Acq On : 09 Jun 2024 10:28 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 09 10:44:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2713.D\data.ms

(13) Acrolein

2.026min (-0.000) 231.67 ug/L

response 108267

Ion	Exp%	Act%
56.10	100.00	100.00
55.00	70.30	68.61
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

06/09/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2713.D
Acq On : 09 Jun 2024 10:28 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 09 10:44:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
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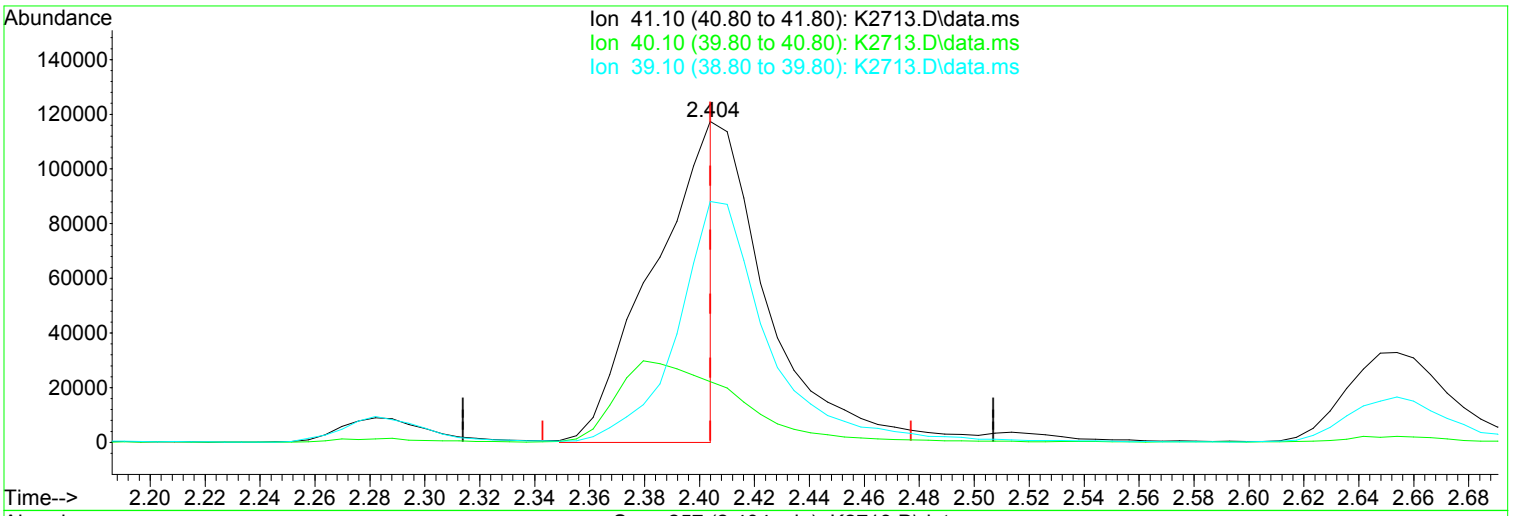
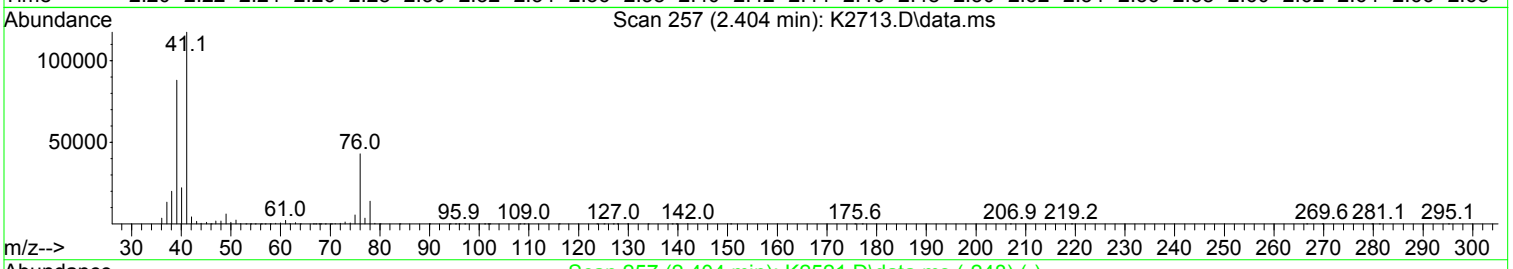
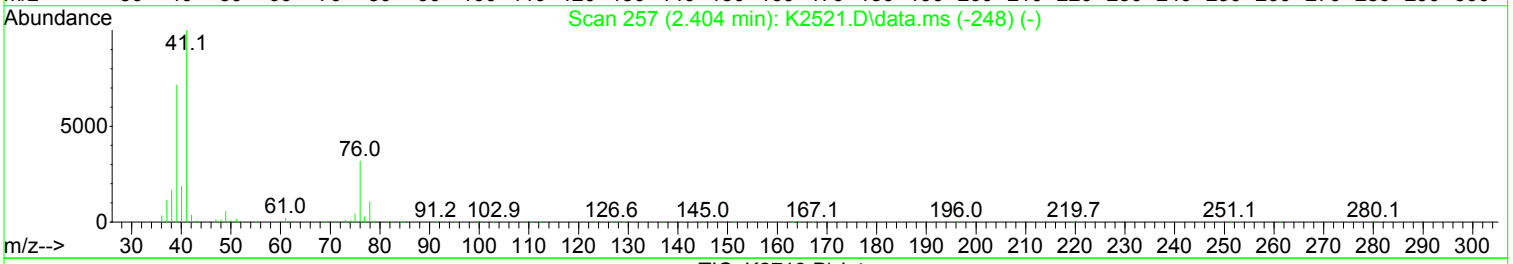






TIC: K2713.D\data.ms

(20) Acetonitrile

2.404min (-0.000) 271.69 ug/L m

response 185309

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	18.80	18.96
39.10	71.30	75.04
0.00	0.00	0.00

Manual Integration:

After

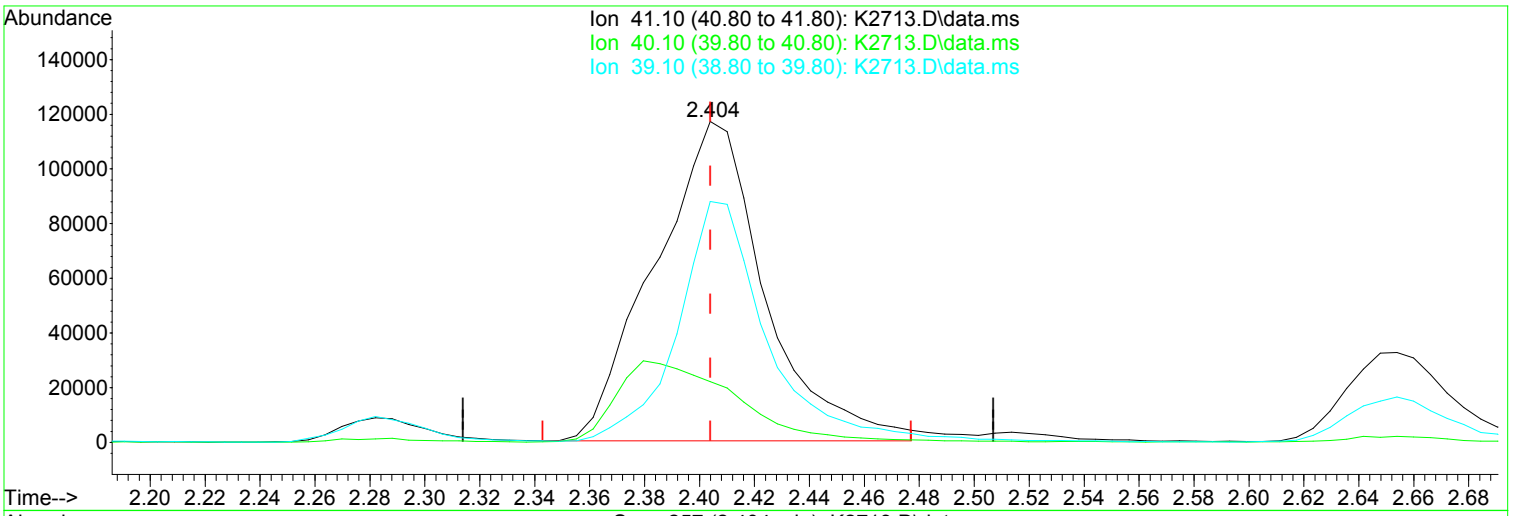
Poor integration.

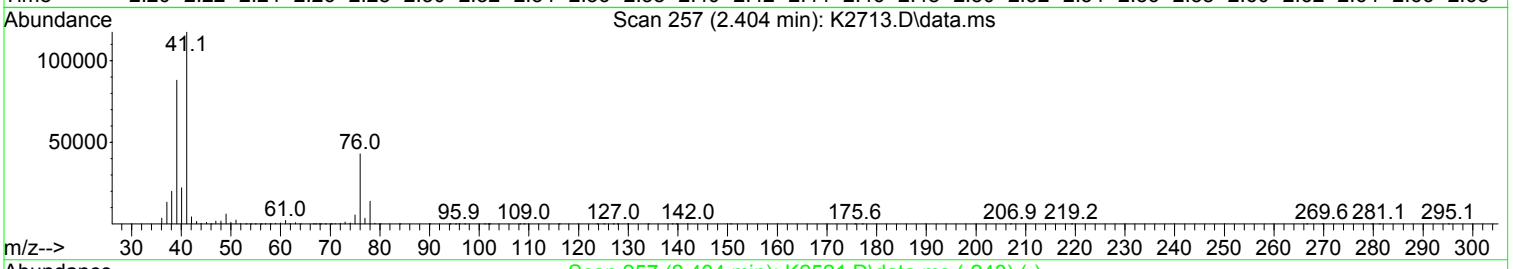
06/09/24

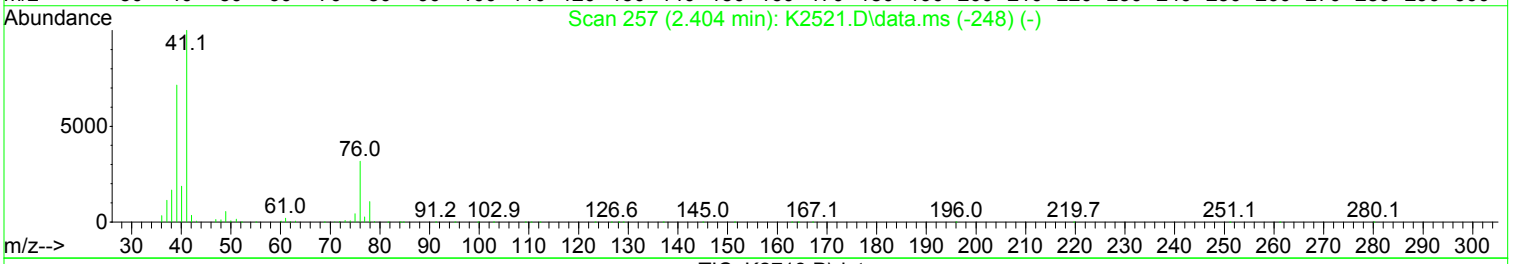
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2713.D
Acq On : 09 Jun 2024 10:28 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 09 10:44:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2713.D\data.ms

(20) Acetonitrile

2.404min (-0.000) 477.46 ug/L

response 325660

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	18.80	18.96
39.10	71.30	75.04
0.00	0.00	0.00

Manual Integration:

Before

06/09/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2713.D
Acq On : 09 Jun 2024 10:28 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 09 10:44:52 2024
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QLast Update : Wed Jun 05 10:27:35 2024
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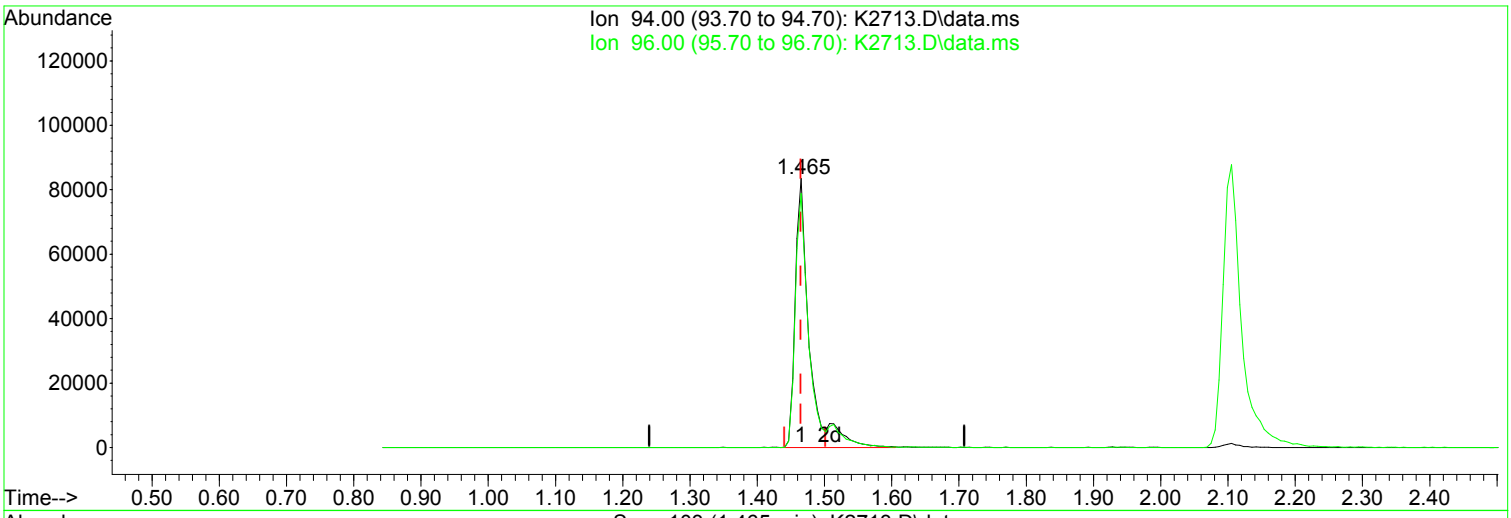
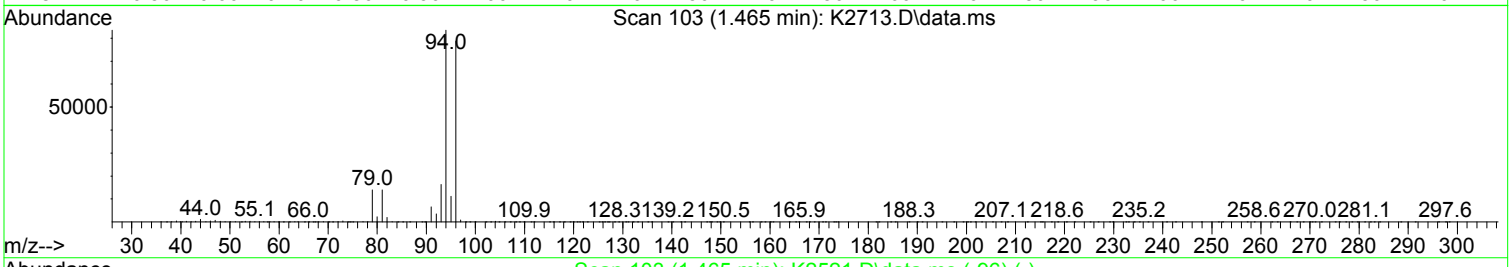
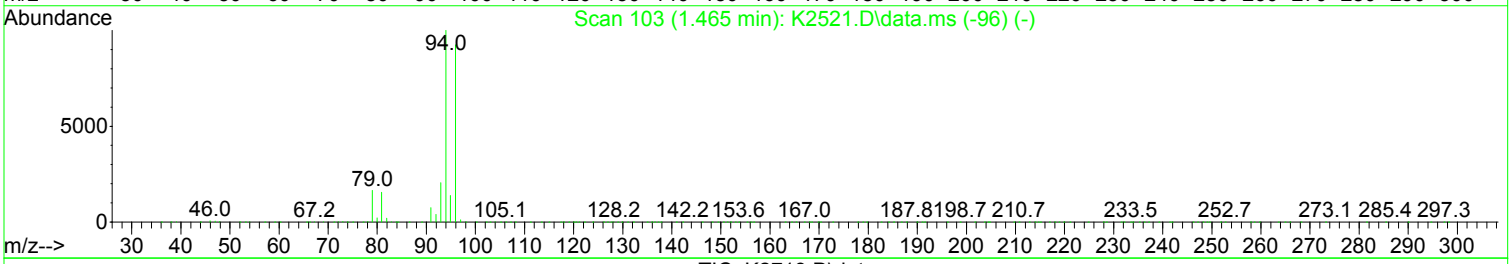






TIC: K2713.D\data.ms

(6) Bromomethane (P)

1.465min (+ 0.000) 60.49 ug/L m

response 123912

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	92.50	94.41
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

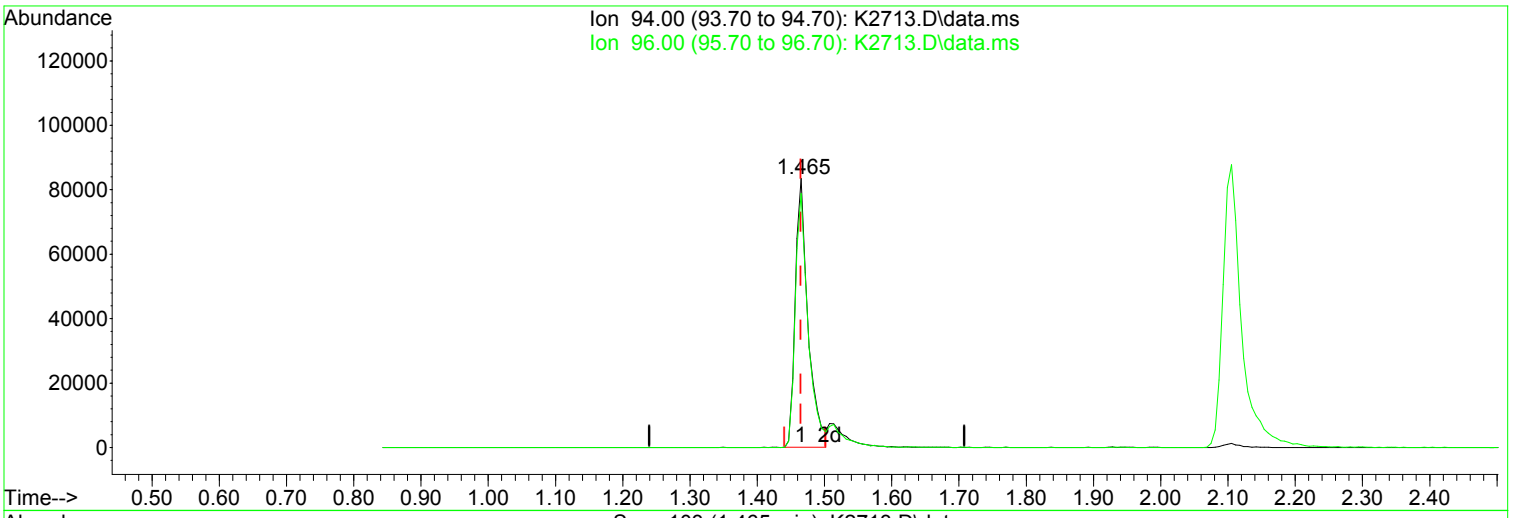
Split Peak.

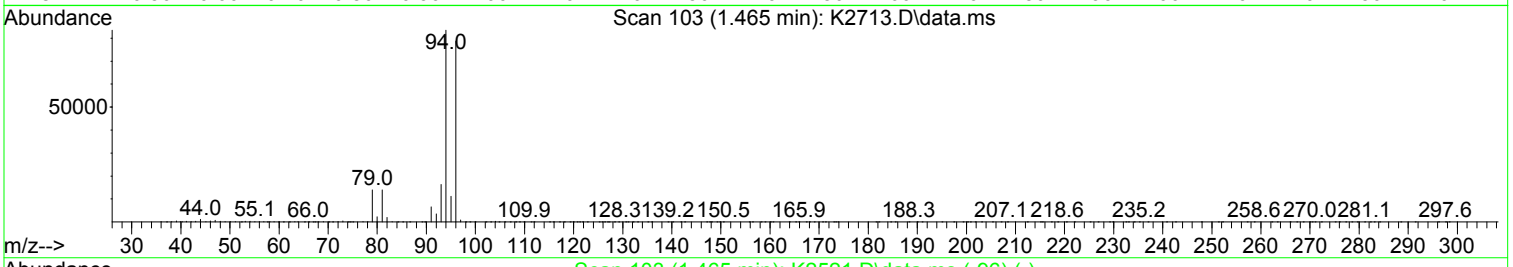
06/09/24

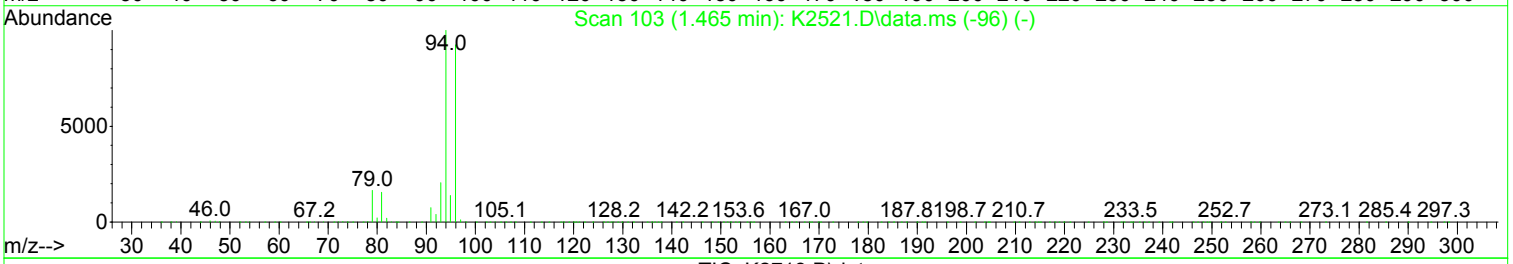
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2713.D
Acq On : 09 Jun 2024 10:28 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 09 10:44:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2713.D\data.ms

(6) Bromomethane (P)

1.465min (+ 0.000) 49.44 ug/L

response 109428

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	92.50	94.41
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

06/09/24

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2713.D
Acq On : 09 Jun 2024 10:28 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 09 10:44:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	i	Pentafluorobenzene	50.000	50.000	0.0	118	0.00
2		Chlorodifluoromethane	50.000	51.565	-3.1	121	0.00
3	P	Dichlorodifluoromethane	50.000	52.681	-5.4	118	0.00
4	P	Chloromethane	50.000	44.421	11.2	105	0.00
5	P	Vinyl Chloride	50.000	51.645	-3.3	122	0.00
6	P	Bromomethane	50.000	60.495	-21.0#	134	0.00
7	P	Chloroethane	50.000	50.946	-1.9	119	0.00
8		Freon 21	50.000	51.355	-2.7	120	0.00
9	P	Trichlorofluoromethane	50.000	52.061	-4.1	124	0.00
10		Diethyl Ether	50.000	52.898	-5.8	124	0.00
11		Freon 123a	50.000	48.738	2.5	119	0.00
12		Freon 123	50.000	50.329	-0.7	119	0.00
13		Acrolein	250.000	239.957	4.0	118	0.00
14		1,1-Diclethene	50.000	49.832	0.3	121	0.00
15	P	Freon 113	50.000	51.108	-2.2	126	0.00
16	P	Acetone	50.000	54.668	-9.3	128	0.00
17		2-Propanol	1000.000	989.404	1.1	120	0.00
18		Iodomethane	50.000	54.467	-8.9	158	0.00
19	P	Carbon Disulfide	50.000	49.961	0.1	119	0.00
20		Acetonitrile	250.000	271.686	-8.7	131	0.00
21		Allyl Chloride	50.000	52.251	-4.5	122	0.00
22	P	Methyl Acetate	50.000	50.503	-1.0	125	0.00
23	P	Methylene Chloride	50.000	49.190	1.6	120	0.00
24		TBA	1000.000	1014.990	-1.5	128	0.00
25		Acrylonitrile	250.000	258.409	-3.4	128	0.00
26	P	Methyl-t-Butyl Ether	50.000	50.140	-0.3	122	0.00
27	P	trans-1,2-Dichloroethene	50.000	51.009	-2.0	123	0.00
28	P	1,1-Diclethane	50.000	48.419	3.2	118	0.00
29		Vinyl Acetate	50.000	59.545	-19.1	139	0.00
30		DIPE	50.000	51.229	-2.5	121	0.00
31		2-Chloro-1,3-Butadiene	50.000	54.071	-8.1	125	0.00
32		ETBE	50.000	50.808	-1.6	119	0.00
33		2,2-Dichloropropane	50.000	49.506	1.0	122	0.00
34	P	cis-1,2-Dichloroethene	50.000	50.410	-0.8	123	0.00
35	P	2-Butanone	50.000	52.957	-5.9	133	0.00
36		Propionitrile	250.000	258.386	-3.4	126	0.00
37		Bromochloromethane	50.000	50.129	-0.3	120	0.00
38		Methacrylonitrile	50.000	50.686	-1.4	122	0.00
39		Tetrahydrofuran	50.000	50.152	-0.3	127	0.00
40	P	Chloroform	50.000	50.252	-0.5	122	0.00
41	P	1,1,1-Trichloroethane	50.000	51.162	-2.3	124	0.00
42		TAME	50.000	50.216	-0.4	120	0.00
43	i	1,4-Difluorobenzene	50.000	50.000	0.0	121	0.00
44	P	Cyclohexane	50.000	49.297	1.4	118	0.00
45	s	surr4,Dibrflmethane	50.000	50.999	-2.0	121	0.00
46	P	Carbontetrachloride	50.000	44.075	11.8	121	0.00
47		1,1-Dichloropropene	50.000	46.662	6.7	128	0.00
48	s	surr1,1,2-dichloroethane-d4	50.000	51.352	-2.7	123	0.00
49	P	Benzene	50.000	49.655	0.7	125	0.00
50	P	1,2-Dichloroethane	50.000	49.648	0.7	124	0.00
51		Iso-Butyl Alcohol	1000.000	963.767	3.6	124	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2713.D
Acq On : 09 Jun 2024 10:28 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 09 10:44:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52		n-Heptane	50.000	49.215	1.6	136	0.00
53		1-Butanol	2500.000	2551.518	-2.1	125	0.00
54	P	Trichloroethene	50.000	48.434	3.1	121	0.00
55	P	Methylcyclohexane	50.000	48.569	2.9	119	0.00
56	P	1,2-Diclpropane	50.000	47.962	4.1	122	0.00
57		Dibromomethane	50.000	48.675	2.7	123	0.00
58		1,4-Dioxane	1000.000	967.779	3.2	126	0.00
59		Methyl Methacrylate	50.000	52.046	-4.1	128	0.00
60	P	Bromodichloromethane	50.000	49.807	0.4	120	0.00
61		2-Nitropropane	100.000	104.118	-4.1	128	0.00
62		2-Chloroethylvinyl Ether	50.000	47.604	4.8	119	0.00
63	P	cis-1,3-Dichloropropene	50.000	50.839	-1.7	122	0.00
64	P	4-Methyl-2-pentanone	50.000	50.570	-1.1	128	0.00
65	s	SURR3,Toluene-d8	50.000	50.941	-1.9	121	0.00
66	P	Toluene	50.000	48.787	2.4	127	0.00
67	P	trans-1,3-Dichloropropene	50.000	51.257	-2.5	122	0.00
68		Ethyl Methacrylate	50.000	50.491	-1.0	123	0.00
69	P	1,1,2-Trichloroethane	50.000	48.836	2.3	120	0.00
70	s	SURR2,BFB	50.000	53.229	-6.5	131	0.00
71	i	d5-Chlorobenzene	50.000	50.000	0.0	123	0.00
72	P	Tetrachloroethene	50.000	46.314	7.4	123	0.00
73	P	2-Hexanone	50.000	49.343	1.3	130	0.00
74		1,3-Dichloropropane	50.000	47.296	5.4	121	0.00
75	P	Dibromochloromethane	50.000	49.245	1.5	119	0.00
76		N-Butyl Acetate	50.000	49.118	1.8	124	0.00
77	P	1,2-Dibromoethane	50.000	49.723	0.6	128	0.00
78		3-Chlorobenzotrifluoride	50.000	45.534	8.9	115	0.00
79	P	Chlorobenzene	50.000	46.269	7.5	124	0.00
80		4-Chlorobenzotrifluoride	50.000	45.934	8.1	114	0.00
81		1,1,1,2-Tetrachloroethane	50.000	47.977	4.0	121	0.00
82	P	Ethylbenzene	50.000	47.643	4.7	128	0.00
83	P	(m+p)Xylene	100.000	96.305	3.7	126	0.00
84	P	o-Xylene	50.000	48.066	3.9	124	0.00
85	P	Styrene	50.000	49.384	1.2	124	0.00
86	P	Bromoform	50.000	49.955	0.1	119	0.00
87		2-Chlorobenzotrifluoride	50.000	45.622	8.8	113	0.00
88	P	Isopropylbenzene	50.000	48.221	3.6	126	0.00
89		Cyclohexanone	1000.000	595.729	40.4#	90	0.00
90		trans-1,4-Dichloro-2-Butene	50.000	51.910	-3.8	141	0.00
91	i	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	117	0.00
92	P	1,1,2,2-Tetrachloroethane	50.000	48.710	2.6	125	0.00
93		Bromobenzene	50.000	48.585	2.8	124	0.00
94		1,2,3-Trichloropropane	50.000	47.902	4.2	127	0.00
95		n-Propylbenzene	50.000	50.228	-0.5	130	0.00
96		2-Chlorotoluene	50.000	49.020	2.0	127	0.00
97		3-Chlorotoluene	50.000	48.803	2.4	119	0.00
98		4-Chlorotoluene	50.000	49.178	1.6	126	0.00
99		1,3,5-Trimethylbenzene	50.000	48.892	2.2	126	0.00
100		tert-Butylbenzene	50.000	48.850	2.3	128	0.00
101		1,2,4-Trimethylbenzene	50.000	49.334	1.3	126	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2713.D
Acq On : 09 Jun 2024 10:28 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 09 10:44:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
102		3,4-Dichlorobenzotrifluorid	50.000	45.646	8.7	111	0.00
103		sec-Butylbenzene	50.000	49.908	0.2	131	0.00
104		p-Isopropyltoluene	50.000	50.454	-0.9	128	0.00
105	P	1,3-Dclbenz	50.000	48.266	3.5	125	0.00
106	P	1,4-Dclbenz	50.000	47.047	5.9	123	0.00
107		2,4-Dichlorobenzotrifluorid	50.000	46.857	6.3	113	0.00
108		2,5-Dichlorobenzotrifluorid	50.000	46.641	6.7	109	0.00
109		n-Butylbenzene	50.000	51.197	-2.4	131	0.00
110	P	1,2-Dclbenz	50.000	48.028	3.9	123	0.00
111	P	1,2-Dibromo-3-chloropropane	50.000	51.510	-3.0	124	0.00
112		Trielution Dichlorotoluene	150.000	151.058	-0.7	117	0.00
113		1,3,5-Trichlorobenzene	50.000	48.646	2.7	113	0.00
114		Coelution Dichlorotoluene	100.000	99.798	0.2	116	0.00
115	P	1,2,4-Tcbenzene	50.000	49.908	0.2	124	0.00
116		Hexachlorobt	50.000	46.420	7.2	119	0.00
117		Naphthalen	50.000	51.290	-2.6	121	0.00
118		1,2,3-Tclbenzene	50.000	50.405	-0.8	123	0.00
119		2,4,5-Trichlorotoluene	50.000	51.202	-2.4	114	0.00
120		2,3,6-Trichlorotoluene	50.000	51.436	-2.9	125	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2713.D
Acq On : 09 Jun 2024 10:28 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 09 10:44:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.989	168	447985	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.172	114	695434	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.573	117	625746	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	11.640	152	310656	50.00	ug/L	#	0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.830	113	238968	51.00	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 102.00%				
48) surr1,1,2-dichloroetha...	5.416	65	291577	51.35	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.70%				
65) SURR3,Toluene-d8	8.049	98	827145	50.94	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.88%				
70) SURR2,BFB	10.665	95	324886	53.23	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 106.46%				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.087	51	194498	51.565	ug/L		100
3) Dichlorodifluoromethane	1.075	85	279484	52.681	ug/L		99
4) Chloromethane	1.197	50	206131	44.421	ug/L		100
5) Vinyl Chloride	1.264	62	231866	51.645	ug/L		97
6) Bromomethane	1.465	94	123912m	60.495	ug/L		
7) Chloroethane	1.532	64	147260	50.946	ug/L		99
8) Freon 21	1.672	67	327843	51.355	ug/L		98
9) Trichlorofluoromethane	1.715	101	319251	52.061	ug/L		100
10) Diethyl Ether	1.928	59	167174	52.898	ug/L		97
11) Freon 123a	1.941	67	182711	48.738	ug/L		96
12) Freon 123	1.983	83	244016	50.329	ug/L		98
13) Acrolein	2.026	56	112139m	239.957	ug/L		
14) 1,1-Diclethene	2.105	96	170515	49.832	ug/L		96
15) Freon 113	2.111	101	181742	51.108	ug/L		95
16) Acetone	2.154	43	63462	54.668	ug/L		97
17) 2-Propanol	2.282	45	254444	989.404	ug/L		98
18) Iodomethane	2.227	142	149689	54.467	ug/L		99
19) Carbon Disulfide	2.276	76	473427	49.961	ug/L		99
20) Acetonitrile	2.404	41	185309m	271.686	ug/L		
21) Allyl Chloride	2.410	76	92049	52.251	ug/L		95
22) Methyl Acetate	2.434	43	183938	50.503	ug/L		98
23) Methylene Chloride	2.514	84	179349	49.190	ug/L		97
24) TBA	2.654	59	536150	1014.990	ug/L		100
25) Acrylonitrile	2.757	53	406443	258.409	ug/L		99
26) Methyl-t-Butyl Ether	2.794	73	570975	50.140	ug/L		99
27) trans-1,2-Dichloroethene	2.782	96	184280	51.009	ug/L		98
28) 1,1-Diclethane	3.245	63	325340	48.419	ug/L		99
29) Vinyl Acetate	3.331	86	26610	59.545	ug/L	#	73
30) DIPE	3.355	45	495954	51.229	ug/L		97
31) 2-Chloro-1,3-Butadiene	3.355	53	312330	54.071	ug/L		95
32) ETBE	3.843	59	624318	50.808	ug/L		98
33) 2,2-Dichloropropane	4.007	77	290614	49.506	ug/L		99
34) cis-1,2-Dichloroethene	4.013	96	207281	50.410	ug/L		99
35) 2-Butanone	4.074	43	88500	52.957	ug/L		98
36) Propionitrile	4.154	54	167565	258.386	ug/L		99
37) Bromochloromethane	4.379	130	139771	50.129	ug/L		92
38) Methacrylonitrile	4.404	67	87086	50.686	ug/L		90
39) Tetrahydrofuran	4.477	42	55236	50.152	ug/L		96
40) Chloroform	4.550	83	331924	50.252	ug/L		98

1st 06/09/24
2nd 06/10/24

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2713.D
Acq On : 09 Jun 2024 10:28 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 09 10:44:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1,1,1-Trichloroethane	4.824	97	320990	51.162 ug/L	97
42) TAME	5.763	73	538057	50.216 ug/L	99
44) Cyclohexane	4.916	41	143832	49.297 ug/L	96
46) Carbontetrachloride	5.129	117	287875	44.075 ug/L	99
47) 1,1-Dichloropropene	5.147	75	230065	46.662 ug/L	98
49) Benzene	5.495	78	667578	49.655 ug/L	100
50) 1,2-Dichloroethane	5.544	62	307781	49.648 ug/L	97
51) Iso-Butyl Alcohol	5.562	43	157836	963.767 ug/L	99
52) n-Heptane	6.025	43	194880	49.215 ug/L	99
53) 1-Butanol	6.586	56	311681	2551.518 ug/L	98
54) Trichloroethene	6.507	130	211557	48.434 ug/L	99
55) Methylcyclohexane	6.745	55	239323	48.569 ug/L	99
56) 1,2-Diclpropane	6.806	63	184129	47.962 ug/L	98
57) Dibromomethane	6.952	93	127817	48.675 ug/L	96
58) 1,4-Dioxane	7.031	88	57627	967.779 ug/L	92
59) Methyl Methacrylate	7.056	69	136895	52.046 ug/L	94
60) Bromodichloromethane	7.196	83	263798	49.807 ug/L	98
61) 2-Nitropropane	7.501	41	126904	104.118 ug/L	98
62) 2-Chloroethylvinyl Ether	7.622	63	122743	47.604 ug/L	97
63) cis-1,3-Dichloropropene	7.750	75	283578	50.839 ug/L	99
64) 4-Methyl-2-pentanone	7.976	43	183953	50.570 ug/L	99
66) Toluene	8.122	91	753437	48.787 ug/L	100
67) trans-1,3-Dichloropropene	8.409	75	267369	51.257 ug/L	99
68) Ethyl Methacrylate	8.561	69	253638	50.491 ug/L	98
69) 1,1,2-Trichloroethane	8.604	97	180615	48.836 ug/L	97
72) Tetrachloroethene	8.726	164	158976	46.314 ug/L	98
73) 2-Hexanone	8.909	43	129864	49.343 ug/L	98
74) 1,3-Dichloropropane	8.775	76	277788	47.296 ug/L	98
75) Dibromochloromethane	9.000	129	230240	49.245 ug/L	99
76) N-Butyl Acetate	9.073	43	277017	49.118 ug/L	100
77) 1,2-Dibromoethane	9.098	107	185915	49.723 ug/L	99
78) 3-Chlorobenzotrifluoride	9.628	180	284710	45.534 ug/L	96
79) Chlorobenzene	9.598	112	515960	46.269 ug/L	98
80) 4-Chlorobenzotrifluoride	9.689	180	259340	45.934 ug/L	98
81) 1,1,1,2-Tetrachloroethane	9.695	131	214121	47.977 ug/L	99
82) Ethylbenzene	9.726	106	278757	47.643 ug/L	98
83) (m+p)Xylene	9.842	106	681734	96.305 ug/L	97
84) o-Xylene	10.201	106	338377	48.066 ug/L	97
85) Styrene	10.220	104	572487	49.384 ug/L	99
86) Bromoform	10.366	173	139109	49.955 ug/L	97
87) 2-Chlorobenzotrifluoride	10.457	180	273593	45.622 ug/L	99
88) Isopropylbenzene	10.543	105	879891	48.221 ug/L	99
89) Cyclohexanone	10.610	55	241171	595.729 ug/L	98
90) trans-1,4-Dichloro-2-B...	10.860	53	76044	51.910 ug/L	98
92) 1,1,2,2-Tetrachloroethane	10.811	83	239185	48.710 ug/L	100
93) Bromobenzene	10.780	156	230102	48.585 ug/L	97
94) 1,2,3-Trichloropropane	10.835	110	86473	47.902 ug/L	93
95) n-Propylbenzene	10.902	91	998105	50.228 ug/L	98
96) 2-Chlorotoluene	10.957	91	600347	49.020 ug/L	100
97) 3-Chlorotoluene	11.012	91	645809	48.803 ug/L	99
98) 4-Chlorotoluene	11.055	91	697547	49.178 ug/L	99
99) 1,3,5-Trimethylbenzene	11.055	105	762273	48.892 ug/L	99
100) tert-Butylbenzene	11.329	119	668505	48.850 ug/L	99
101) 1,2,4-Trimethylbenzene	11.366	105	769394	49.334 ug/L	98
102) 3,4-Dichlorobenzotrifl...	11.433	214	200055	45.646 ug/L	100
103) sec-Butylbenzene	11.512	105	940320	49.908 ug/L	100

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2713.D
Acq On : 09 Jun 2024 10:28 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 09 10:44:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

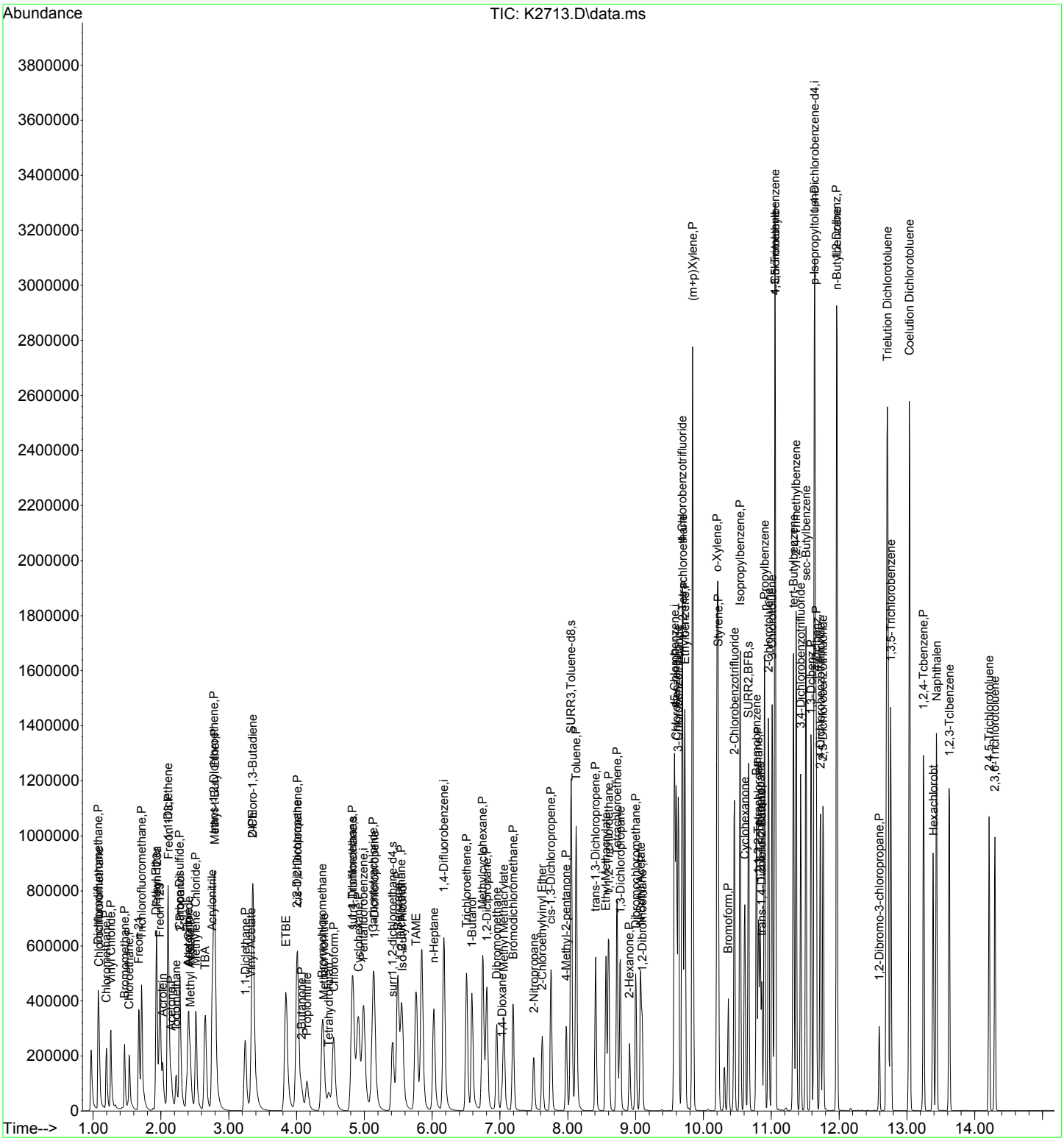
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) p-Isopropyltoluene	11.634	119	832036	50.454	ug/L	99
105) 1,3-Dclbenz	11.591	146	442207	48.266	ug/L	97
106) 1,4-Dclbenz	11.664	146	437744	47.047	ug/L	98
107) 2,4-Dichlorobenzotrifl...	11.725	214	179921	46.857	ug/L	99
108) 2,5-Dichlorobenzotrifl...	11.762	214	200435	46.641	ug/L	95
109) n-Butylbenzene	11.969	91	708040	51.197	ug/L	99
110) 1,2-Dclbenz	11.963	146	428720	48.028	ug/L	98
111) 1,2-Dibromo-3-chloropr...	12.591	157	63348	51.510	ug/L	96
112) Trielution Dichlorotol...	12.713	125	1227790	151.058	ug/L	100
113) 1,3,5-Trichlorobenzene	12.762	180	306390	48.646	ug/L	98
114) Coelution Dichlorotoluene	13.036	125	860233	99.798	ug/L	96
115) 1,2,4-Tcbenzene	13.243	180	287644	49.908	ug/L	97
116) Hexachlorobt	13.390	225	117328	46.420	ug/L	97
117) Naphthalen	13.439	128	857153	51.290	ug/L	100
118) 1,2,3-Tclbenzene	13.628	180	274783	50.405	ug/L	98
119) 2,4,5-Trichlorotoluene	14.213	159	215945	51.202	ug/L	98
120) 2,3,6-Trichlorotoluene	14.298	159	185770	51.436	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st 06/09/24
2nd 06/10/24

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2713.D
Acq On : 09 Jun 2024 10:28 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 09 10:44:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

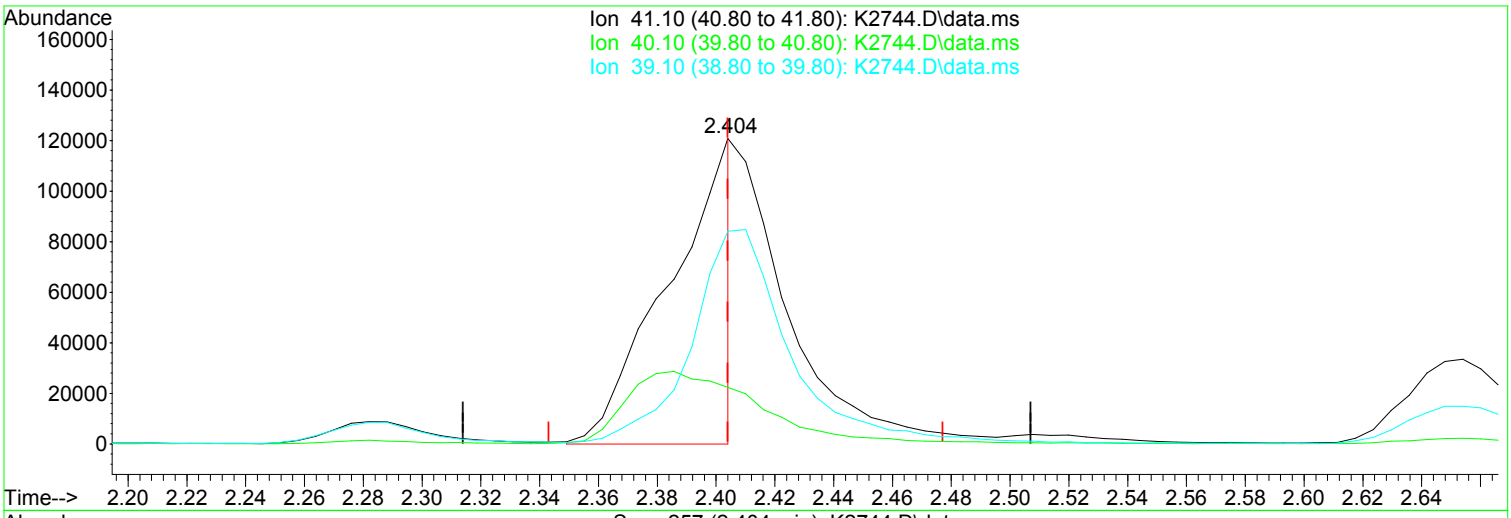


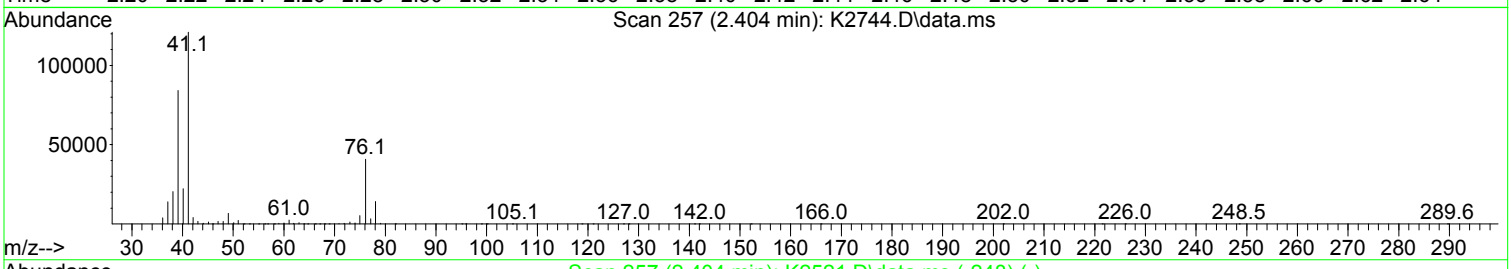
1st 06/10/24
2nd 06/14/24

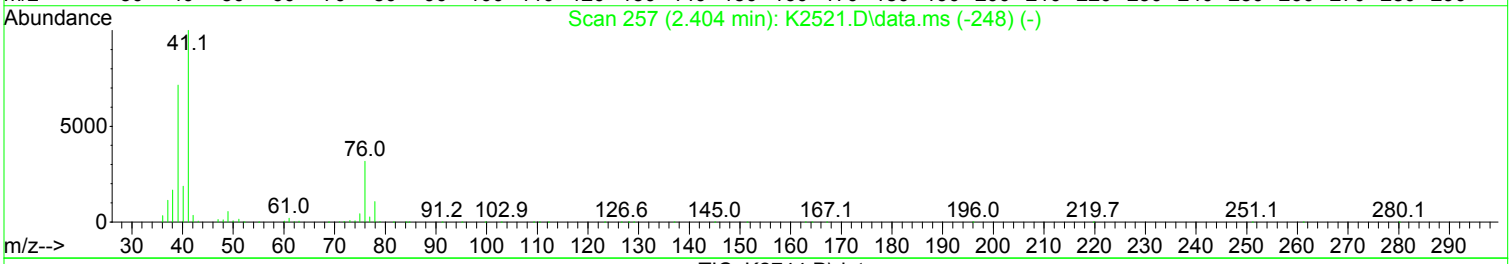
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2744.D
Acq On : 10 Jun 2024 11:17 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 10 11:33:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2744.D\data.ms

(20) Acetonitrile

2.404min (+ 0.000) 266.59 ug/L m

response 185317

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	18.80	18.45
39.10	71.30	69.64
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

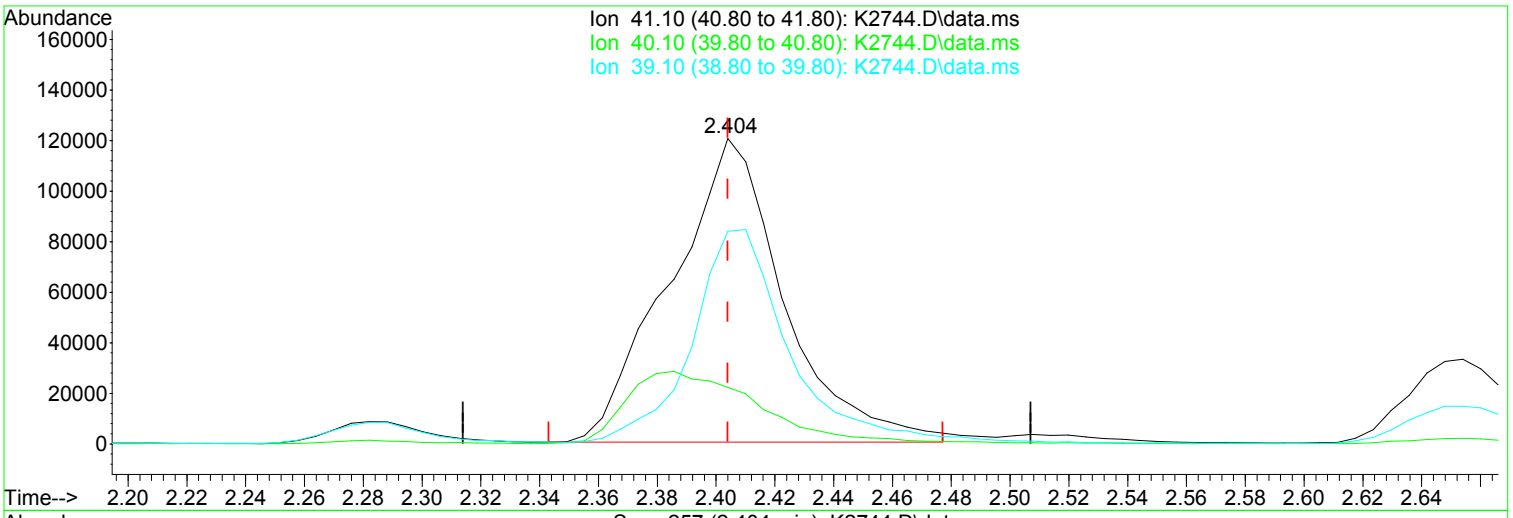
06/10/24

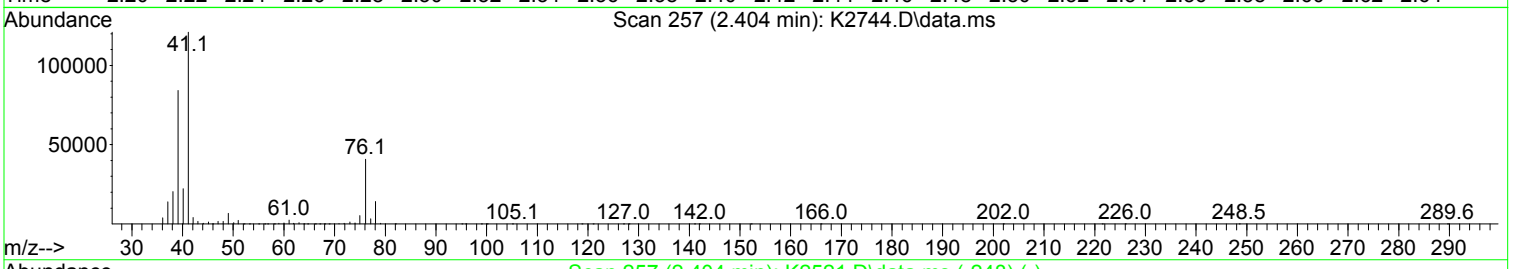
1st 06/10/24
2nd 06/14/24

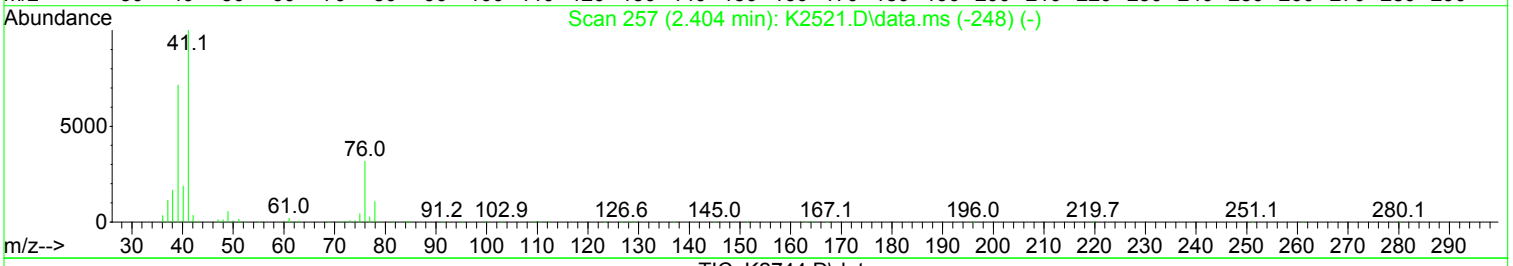
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2744.D
Acq On : 10 Jun 2024 11:17 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 10 11:33:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2744.D\data.ms

(20) Acetonitrile

2.404min (+ 0.000) 464.67 ug/L

response 323009

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	18.80	18.45
39.10	71.30	69.64
0.00	0.00	0.00

Manual Integration:

Before

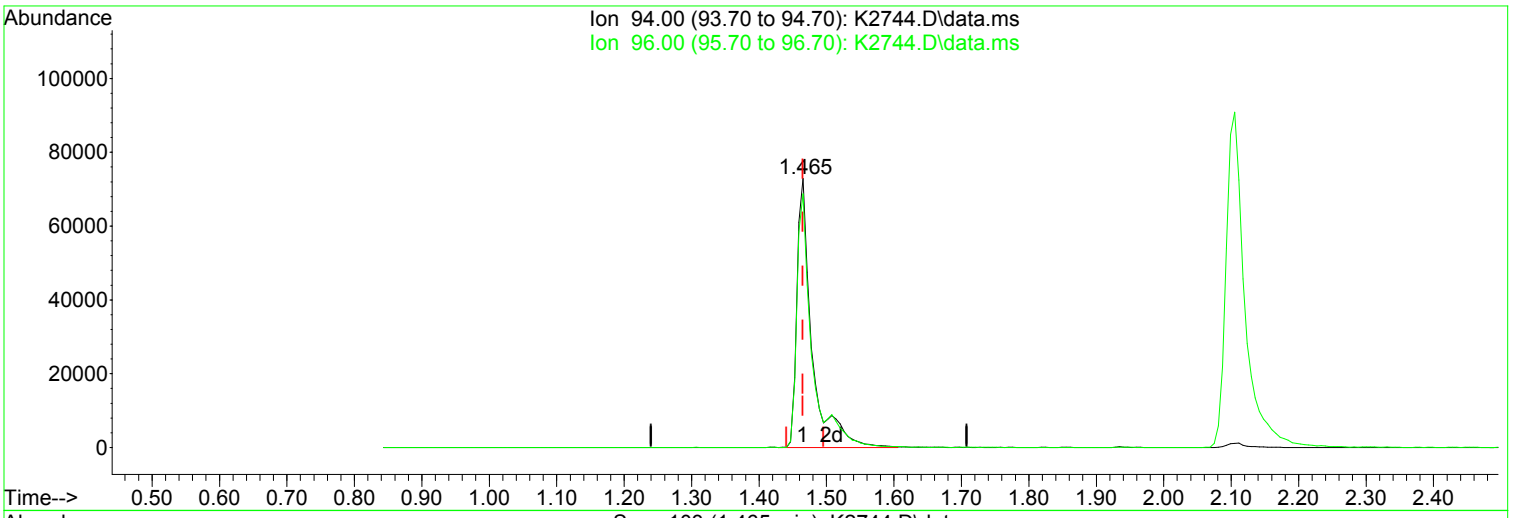
06/10/24

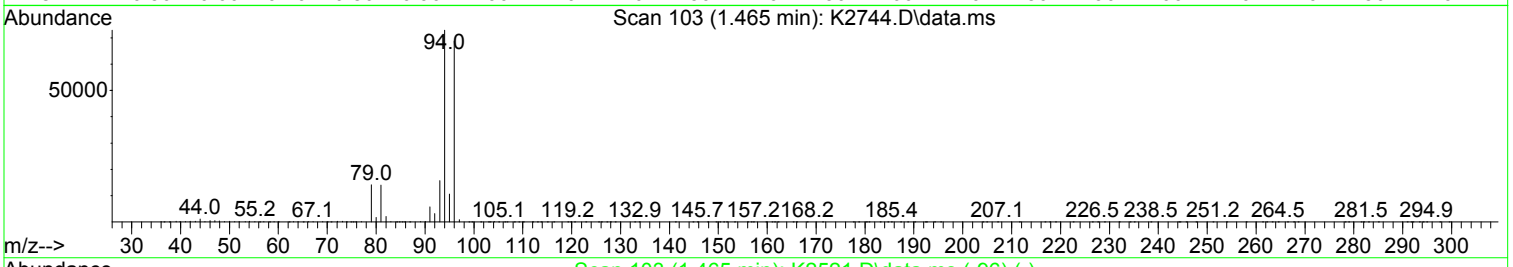
1st 06/10/24
2nd 06/14/24

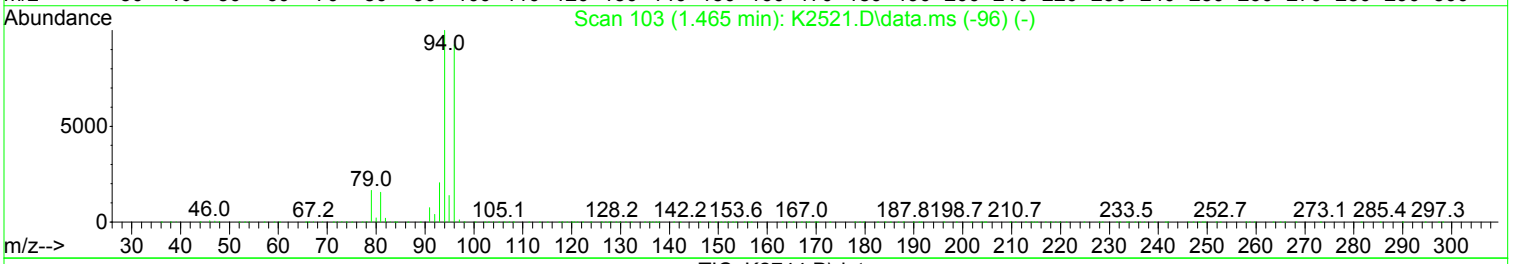
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2744.D
Acq On : 10 Jun 2024 11:17 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 10 11:33:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2744.D\data.ms

(6) Bromomethane (P)

1.465min (+ 0.000) 51.01 ug/L m

response 113838

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	92.50	94.34
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

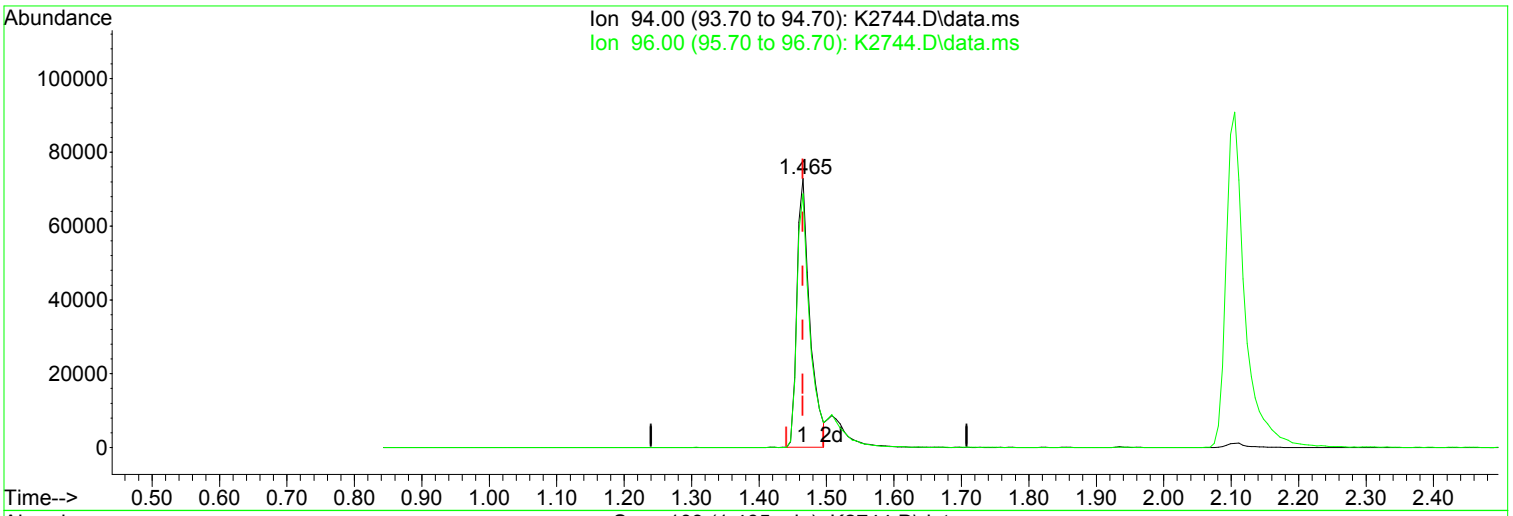
Peak not found.

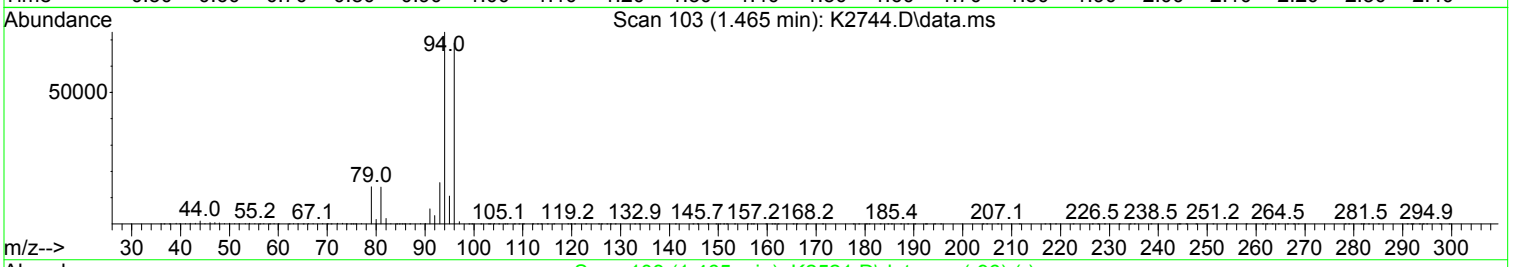
06/10/24

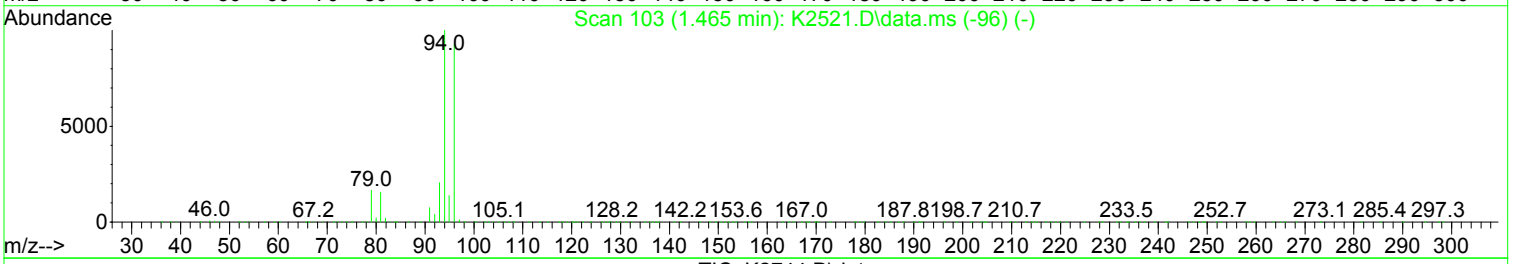
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2744.D
Acq On : 10 Jun 2024 11:17 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 10 11:33:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2744.D\data.ms

(6) Bromomethane (P)

1.465min (+ 0.000) 40.00 ug/L

response 96001

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	92.50	94.34
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

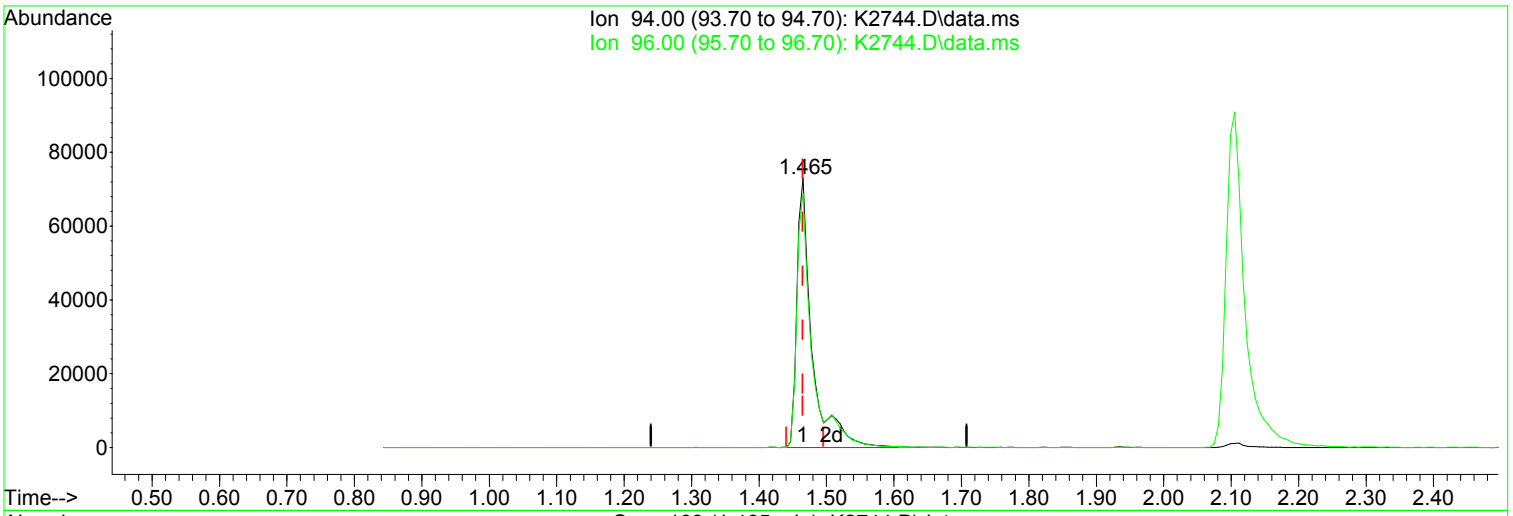
06/10/24

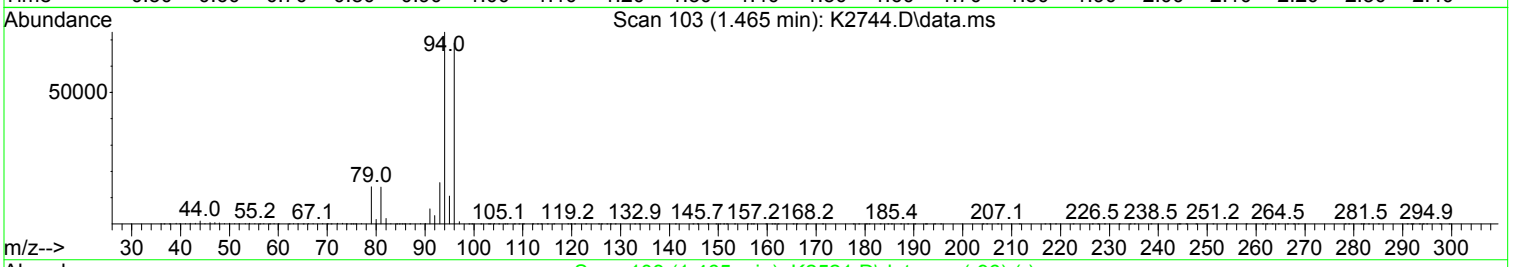
1st 06/10/24
2nd 06/14/24

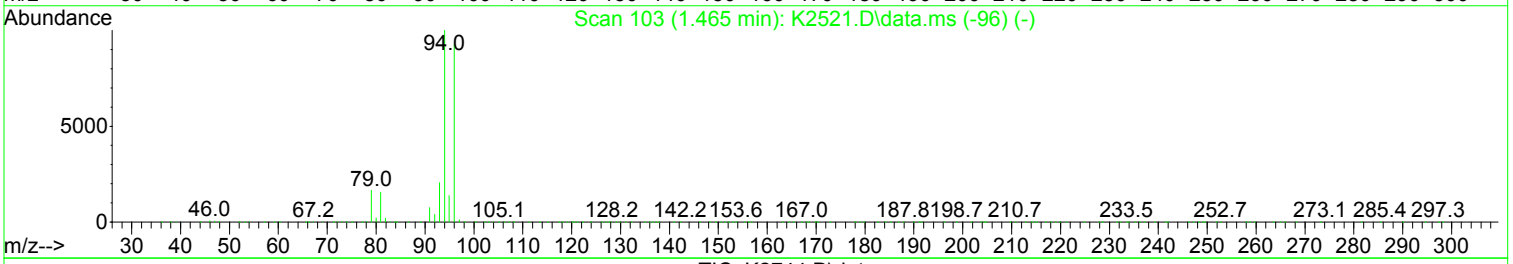
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2744.D
Acq On : 10 Jun 2024 11:17 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 10 11:33:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2744.D\data.ms

(6) Bromomethane (P)

1.465min (+ 0.000) 51.01 ug/L m

response 113838

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	92.50	94.34
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak.

06/10/24

1st 06/10/24
2nd 06/14/24

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2744.D
Acq On : 10 Jun 2024 11:17 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 10 11:33:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	i	Pentafluorobenzene	50.000	50.000	0.0	120	0.00
2		Chlorodifluoromethane	50.000	52.356	-4.7	125	0.00
3	P	Dichlorodifluoromethane	50.000	51.729	-3.5	118	0.00
4	P	Chloromethane	50.000	41.543	16.9	100	0.00
5	P	Vinyl Chloride	50.000	53.010	-6.0	127	0.00
6	P	Bromomethane	50.000	51.005	-2.0	123	0.00
7	P	Chloroethane	50.000	50.826	-1.7	121	0.00
8		Freon 21	50.000	51.805	-3.6	124	0.00
9	P	Trichlorofluoromethane	50.000	53.098	-6.2	128	0.00
10		Diethyl Ether	50.000	53.024	-6.0	127	0.00
11		Freon 123a	50.000	49.914	0.2	124	0.00
12		Freon 123	50.000	51.005	-2.0	123	0.00
13		Acrolein	250.000	185.614	25.8#	93	0.00
14		1,1-Diclethene	50.000	51.000	-2.0	126	0.00
15	P	Freon 113	50.000	52.114	-4.2	131	0.00
16	P	Acetone	50.000	67.979	-36.0#	162	0.00
17		2-Propanol	1000.000	977.167	2.3	121	0.00
18		Iodomethane	50.000	77.169	-54.3#	228	0.00
19	P	Carbon Disulfide	50.000	48.373	3.3	117	0.00
20		Acetonitrile	250.000	266.593	-6.6	131	0.00
21		Allyl Chloride	50.000	50.583	-1.2	120	0.00
22	P	Methyl Acetate	50.000	49.990	0.0	126	0.00
23	P	Methylene Chloride	50.000	50.096	-0.2	125	0.00
24		TBA	1000.000	980.087	2.0	126	0.00
25		Acrylonitrile	250.000	255.020	-2.0	128	0.00
26	P	Methyl-t-Butyl Ether	50.000	49.852	0.3	124	0.00
27	P	trans-1,2-Dichloroethene	50.000	52.494	-5.0	129	0.00
28	P	1,1-Diclethane	50.000	50.902	-1.8	126	0.00
29		Vinyl Acetate	50.000	58.536	-17.1	140	0.00
30		DIPE	50.000	51.038	-2.1	123	0.00
31		2-Chloro-1,3-Butadiene	50.000	52.890	-5.8	124	0.00
32		ETBE	50.000	50.256	-0.5	120	0.00
33		2,2-Dichloropropane	50.000	49.236	1.5	124	0.00
34	P	cis-1,2-Dichloroethene	50.000	51.055	-2.1	127	0.00
35	P	2-Butanone	50.000	55.388	-10.8	142	0.00
36		Propionitrile	250.000	251.194	-0.5	125	0.00
37		Bromochloromethane	50.000	51.592	-3.2	126	0.00
38		Methacrylonitrile	50.000	49.985	0.0	123	0.00
39		Tetrahydrofuran	50.000	49.476	1.0	128	0.00
40	P	Chloroform	50.000	51.545	-3.1	127	0.00
41	P	1,1,1-Trichloroethane	50.000	52.464	-4.9	130	0.00
42		TAME	50.000	49.103	1.8	119	0.00
43	i	1,4-Difluorobenzene	50.000	50.000	0.0	124	0.00
44	P	Cyclohexane	50.000	49.841	0.3	123	0.00
45	s	surr4,Dibrflmethane	50.000	49.427	1.1	120	0.00
46	P	Carbontetrachloride	50.000	45.118	9.8	126	0.00
47		1,1-Dichloropropene	50.000	47.104	5.8	132	0.00
48	s	surr1,1,2-dichloroethane-d4	50.000	50.074	-0.1	123	0.00
49	P	Benzene	50.000	49.816	0.4	129	0.00
50	P	1,2-Dichloroethane	50.000	49.611	0.8	127	0.00
51		Iso-Butyl Alcohol	1000.000	962.999	3.7	127	0.00

1st 06/10/24
2nd FW 06/14/24

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2744.D
Acq On : 10 Jun 2024 11:17 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 10 11:33:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52		n-Heptane	50.000	48.596	2.8	138	0.00
53		1-Butanol	2500.000	2372.690	5.1	118	0.00
54	P	Trichloroethene	50.000	49.823	0.4	128	0.00
55	P	Methylcyclohexane	50.000	48.682	2.6	122	0.00
56	P	1,2-Diclpropane	50.000	48.242	3.5	126	0.00
57		Dibromomethane	50.000	49.928	0.1	129	0.00
58		1,4-Dioxane	1000.000	879.722	12.0	117	0.00
59		Methyl Methacrylate	50.000	51.626	-3.3	130	0.00
60	P	Bromodichloromethane	50.000	50.675	-1.3	125	0.00
61		2-Nitropropane	100.000	104.188	-4.2	132	0.00
62		2-Chloroethylvinyl Ether	50.000	46.782	6.4	120	0.00
63	P	cis-1,3-Dichloropropene	50.000	51.537	-3.1	126	0.00
64	P	4-Methyl-2-pentanone	50.000	48.560	2.9	126	0.00
65	s	SURR3,Toluene-d8	50.000	49.557	0.9	121	0.00
66	P	Toluene	50.000	49.474	1.1	132	0.00
67	P	trans-1,3-Dichloropropene	50.000	51.856	-3.7	126	0.00
68		Ethyl Methacrylate	50.000	51.083	-2.2	128	0.00
69	P	1,1,2-Trichloroethane	50.000	49.272	1.5	124	0.00
70	s	SURR2,BFB	50.000	51.815	-3.6	130	0.00
71	i	d5-Chlorobenzene	50.000	50.000	0.0	124	0.00
72	P	Tetrachloroethene	50.000	47.713	4.6	128	0.00
73	P	2-Hexanone	50.000	51.080	-2.2	136	0.00
74		1,3-Dichloropropane	50.000	48.264	3.5	126	0.00
75	P	Dibromochloromethane	50.000	50.270	-0.5	123	0.00
76		N-Butyl Acetate	50.000	50.766	-1.5	130	0.00
77	P	1,2-Dibromoethane	50.000	51.785	-3.6	135	0.00
78		3-Chlorobenzotrifluoride	50.000	43.141	13.7	110	0.00
79	P	Chlorobenzene	50.000	47.555	4.9	129	0.00
80		4-Chlorobenzotrifluoride	50.000	43.414	13.2	110	0.00
81		1,1,1,2-Tetrachloroethane	50.000	49.317	1.4	126	0.00
82	P	Ethylbenzene	50.000	49.657	0.7	135	0.00
83	P	(m+p)Xylene	100.000	98.437	1.6	130	0.00
84	P	o-Xylene	50.000	49.155	1.7	129	0.00
85	P	Styrene	50.000	51.244	-2.5	131	0.00
86	P	Bromoform	50.000	49.335	1.3	119	0.00
87		2-Chlorobenzotrifluoride	50.000	44.351	11.3	112	0.00
88	P	Isopropylbenzene	50.000	49.844	0.3	132	0.00
89		Cyclohexanone	1000.000	1701.669	-70.2#	261	0.00
90		trans-1,4-Dichloro-2-Butene	50.000	52.475	-5.0	144	0.00
91	i	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	118	0.00
92	P	1,1,2,2-Tetrachloroethane	50.000	49.003	2.0	127	0.00
93		Bromobenzene	50.000	49.943	0.1	128	0.00
94		1,2,3-Trichloropropane	50.000	47.720	4.6	128	0.00
95		n-Propylbenzene	50.000	52.299	-4.6	136	0.00
96		2-Chlorotoluene	50.000	50.472	-0.9	132	0.00
97		3-Chlorotoluene	50.000	46.775	6.5	115	0.00
98		4-Chlorotoluene	50.000	52.727	-5.5	136	0.00
99		1,3,5-Trimethylbenzene	50.000	51.034	-2.1	133	0.00
100		tert-Butylbenzene	50.000	50.218	-0.4	133	0.00
101		1,2,4-Trimethylbenzene	50.000	51.117	-2.2	131	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2744.D
Acq On : 10 Jun 2024 11:17 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 10 11:33:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
102		3,4-Dichlorobenzotrifluorid	50.000	43.395	13.2	106	0.00
103		sec-Butylbenzene	50.000	51.074	-2.1	135	0.00
104		p-Isopropyltoluene	50.000	52.055	-4.1	133	0.00
105	P	1,3-Dclbenz	50.000	49.534	0.9	129	0.00
106	P	1,4-Dclbenz	50.000	48.554	2.9	128	0.00
107		2,4-Dichlorobenzotrifluorid	50.000	43.652	12.7	106	0.00
108		2,5-Dichlorobenzotrifluorid	50.000	44.545	10.9	105	0.00
109		n-Butylbenzene	50.000	52.750	-5.5	136	0.00
110	P	1,2-Dclbenz	50.000	49.009	2.0	126	0.00
111	P	1,2-Dibromo-3-chloropropane	50.000	51.015	-2.0	124	0.00
112		Trielution Dichlorotoluene	150.000	146.776	2.1	114	0.00
113		1,3,5-Trichlorobenzene	50.000	47.207	5.6	110	0.00
114		Coelution Dichlorotoluene	100.000	98.157	1.8	115	0.00
115	P	1,2,4-Tcbenzene	50.000	50.638	-1.3	127	0.00
116		Hexachlorobt	50.000	48.678	2.6	126	0.00
117		Naphthalen	50.000	51.879	-3.8	123	0.00
118		1,2,3-Tclbenzene	50.000	50.497	-1.0	124	0.00
119		2,4,5-Trichlorotoluene	50.000	49.910	0.2	112	0.00
120		2,3,6-Trichlorotoluene	50.000	51.509	-3.0	126	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2744.D
Acq On : 10 Jun 2024 11:17 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 10 11:33:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.989	168	456563	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.172	114	712379	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.573	117	634017	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	11.646	152	313015	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.824	113	237248	49.43	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 98.86%				
48) surr1,1,2-dichloroetha...	5.416	65	291251	50.07	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.14%				
65) SURR3,Toluene-d8	8.049	98	824278	49.56	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.12%				
70) SURR2,BFB	10.665	95	323961	51.81	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 103.62%				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.087	51	201264	52.356	ug/L		100
3) Dichlorodifluoromethane	1.075	85	279689	51.729	ug/L		98
4) Chloromethane	1.203	50	196868	41.543	ug/L		100
5) Vinyl Chloride	1.264	62	242547	53.010	ug/L		100
6) Bromomethane	1.465	94	113838m	51.005	ug/L		
7) Chloroethane	1.538	64	149727	50.826	ug/L		97
8) Freon 21	1.672	67	337048	51.805	ug/L		97
9) Trichlorofluoromethane	1.715	101	331847	53.098	ug/L		99
10) Diethyl Ether	1.928	59	170781	53.024	ug/L		98
11) Freon 123a	1.935	67	190700	49.914	ug/L		94
12) Freon 123	1.983	83	252031	51.005	ug/L		98
13) Acrolein	2.026	56	88404	185.614	ug/L		99
14) 1,1-Diclethene	2.105	96	177856	51.000	ug/L		96
15) Freon 113	2.111	101	188868	52.114	ug/L		98
16) Acetone	2.148	43	80396	67.979	ug/L		97
17) 2-Propanol	2.282	45	256109	977.167	ug/L		99
18) Iodomethane	2.221	142	216141	77.169	ug/L		97
19) Carbon Disulfide	2.276	76	467158	48.373	ug/L		100
20) Acetonitrile	2.404	41	185317m	266.593	ug/L		
21) Allyl Chloride	2.410	76	90816	50.583	ug/L		94
22) Methyl Acetate	2.434	43	185558	49.990	ug/L		98
23) Methylene Chloride	2.514	84	186151	50.096	ug/L		94
24) TBA	2.654	59	527626	980.087	ug/L		98
25) Acrylonitrile	2.758	53	408793	255.020	ug/L		100
26) Methyl-t-Butyl Ether	2.794	73	578569	49.852	ug/L		99
27) trans-1,2-Dichloroethene	2.782	96	193277	52.494	ug/L		99
28) 1,1-Diclethane	3.239	63	348569	50.902	ug/L		99
29) Vinyl Acetate	3.331	86	26660	58.536	ug/L	#	80
30) DIPE	3.355	45	503566	51.038	ug/L		98
31) 2-Chloro-1,3-Butadiene	3.355	53	311357	52.890	ug/L		98
32) ETBE	3.843	59	629360	50.256	ug/L		99
33) 2,2-Dichloropropane	4.007	77	294565	49.236	ug/L		97
34) cis-1,2-Dichloroethene	4.013	96	213952	51.055	ug/L		97
35) 2-Butanone	4.074	43	94335	55.388	ug/L		96
36) Propionitrile	4.154	54	166020	251.194	ug/L		97
37) Bromochloromethane	4.379	130	146607	51.592	ug/L		96
38) Methacrylonitrile	4.398	67	87526	49.985	ug/L		90
39) Tetrahydrofuran	4.477	42	55535	49.476	ug/L		95
40) Chloroform	4.544	83	346979	51.545	ug/L		99

1st 06/10/24
2nd 06/14/24

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2744.D
Acq On : 10 Jun 2024 11:17 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 10 11:33:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-Trichloroethane	4.824	97	335461	52.464	ug/L	97
42) TAME	5.763	73	536207	49.103	ug/L	99
44) Cyclohexane	4.910	41	148962	49.841	ug/L	94
46) Carbontetrachloride	5.123	117	301873	45.118	ug/L	99
47) 1,1-Dichloropropene	5.141	75	237903	47.104	ug/L	99
49) Benzene	5.495	78	686060	49.816	ug/L	99
50) 1,2-Dichloroethane	5.544	62	315046	49.611	ug/L	99
51) Iso-Butyl Alcohol	5.562	43	161553	962.999	ug/L	99
52) n-Heptane	6.019	43	197116	48.596	ug/L	100
53) 1-Butanol	6.586	56	294864	2372.690	ug/L	99
54) Trichloroethene	6.507	130	222930	49.823	ug/L	100
55) Methylcyclohexane	6.745	55	245724	48.682	ug/L	98
56) 1,2-Diclpropane	6.806	63	189717	48.242	ug/L	100
57) Dibromomethane	6.952	93	134300	49.928	ug/L	98
58) 1,4-Dioxane	7.031	88	53660	879.722	ug/L	96
59) Methyl Methacrylate	7.056	69	139097	51.626	ug/L	93
60) Bromodichloromethane	7.190	83	274936	50.675	ug/L	97
61) 2-Nitropropane	7.495	41	130083	104.188	ug/L	99
62) 2-Chloroethylvinyl Ether	7.623	63	123561	46.782	ug/L	99
63) cis-1,3-Dichloropropene	7.751	75	294474	51.537	ug/L	99
64) 4-Methyl-2-pentanone	7.976	43	180948	48.560	ug/L	100
66) Toluene	8.122	91	782667	49.474	ug/L	99
67) trans-1,3-Dichloropropene	8.409	75	277086	51.856	ug/L	98
68) Ethyl Methacrylate	8.561	69	262861	51.083	ug/L	99
69) 1,1,2-Trichloroethane	8.598	97	186666	49.272	ug/L	97
72) Tetrachloroethene	8.726	164	165945	47.713	ug/L	99
73) 2-Hexanone	8.909	43	136214	51.080	ug/L	99
74) 1,3-Dichloropropane	8.769	76	287220	48.264	ug/L	97
75) Dibromochloromethane	9.000	129	238139	50.270	ug/L	100
76) N-Butyl Acetate	9.074	43	290096	50.766	ug/L	100
77) 1,2-Dibromoethane	9.092	107	196185	51.785	ug/L	98
78) 3-Chlorobenzotrifluoride	9.634	180	273314	43.141	ug/L	99
79) Chlorobenzene	9.598	112	537306	47.555	ug/L	97
80) 4-Chlorobenzotrifluoride	9.689	180	248351	43.414	ug/L	99
81) 1,1,1,2-Tetrachloroethane	9.689	131	223011	49.317	ug/L	99
82) Ethylbenzene	9.726	106	294381	49.657	ug/L	100
83) (m+p)Xylene	9.842	106	706035	98.437	ug/L	99
84) o-Xylene	10.201	106	350616	49.155	ug/L	100
85) Styrene	10.214	104	601906	51.244	ug/L	95
86) Bromoform	10.366	173	139198	49.335	ug/L	97
87) 2-Chlorobenzotrifluoride	10.457	180	269486	44.351	ug/L	98
88) Isopropylbenzene	10.543	105	921533	49.844	ug/L	99
89) Cyclohexanone	10.610	55	697998	1701.669	ug/L	100
90) trans-1,4-Dichloro-2-B...	10.860	53	77888	52.475	ug/L	97
92) 1,1,2,2-Tetrachloroethane	10.811	83	242450	49.003	ug/L	99
93) Bromobenzene	10.781	156	238328	49.943	ug/L	98
94) 1,2,3-Trichloropropane	10.835	110	86799	47.720	ug/L	95
95) n-Propylbenzene	10.896	91	1047148	52.299	ug/L	96
96) 2-Chlorotoluene	10.957	91	622813	50.472	ug/L	99
97) 3-Chlorotoluene	11.012	91	623675	46.775	ug/L	100
98) 4-Chlorotoluene	11.055	91	753562	52.727	ug/L	99
99) 1,3,5-Trimethylbenzene	11.055	105	801711	51.034	ug/L	100
100) tert-Butylbenzene	11.329	119	692452	50.218	ug/L	99
101) 1,2,4-Trimethylbenzene	11.366	105	803251	51.117	ug/L	98
102) 3,4-Dichlorobenzotrifl...	11.433	214	191633	43.395	ug/L	99
103) sec-Butylbenzene	11.512	105	969605	51.074	ug/L	99

1st 06/10/24
2nd 06/14/24

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2744.D
Acq On : 10 Jun 2024 11:17 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 10 11:33:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

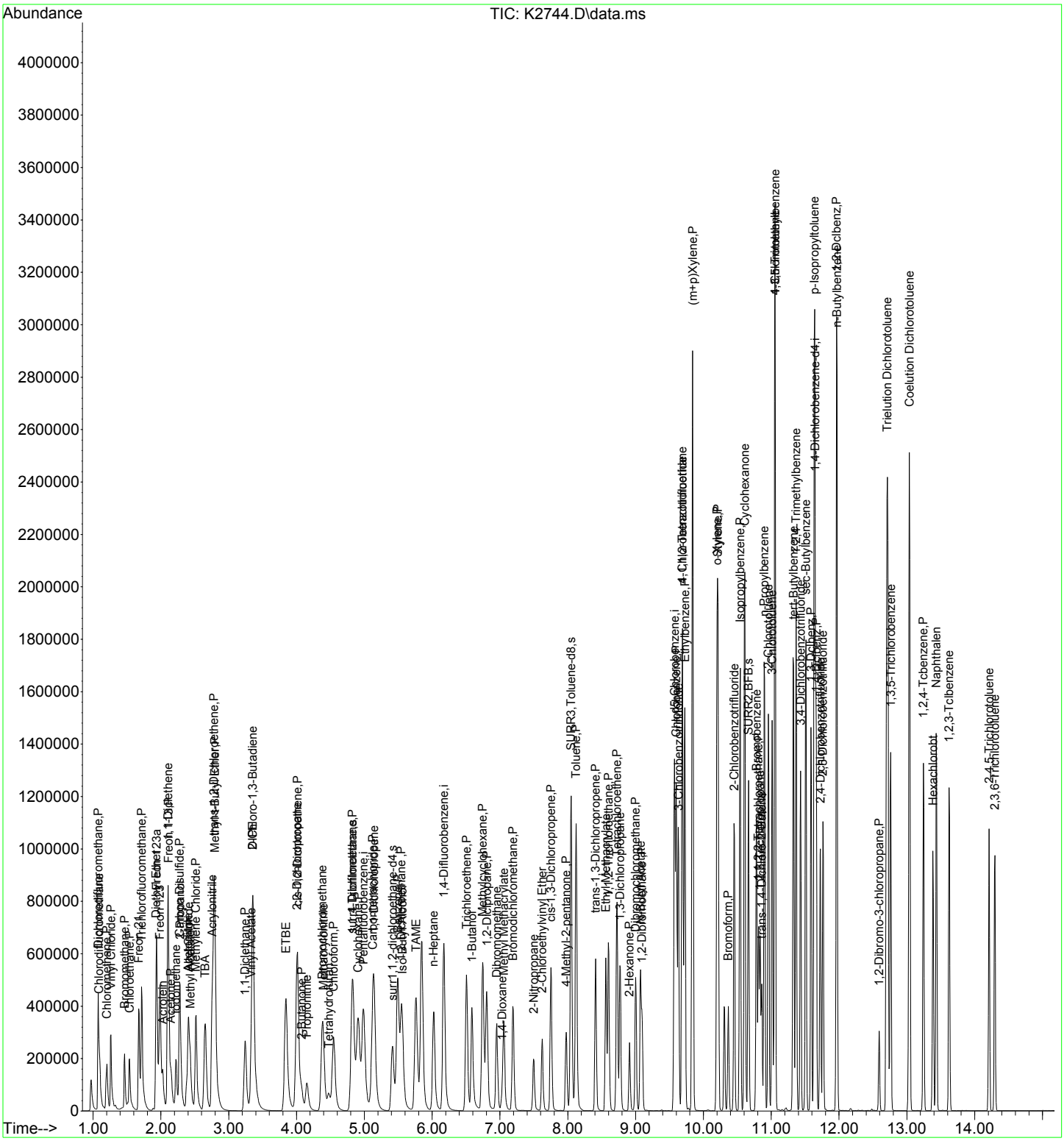
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) p-Isopropyltoluene	11.634	119	864955	52.055	ug/L	99
105) 1,3-Dclbenz	11.585	146	457269	49.534	ug/L	99
106) 1,4-Dclbenz	11.665	146	455200	48.554	ug/L	97
107) 2,4-Dichlorobenzotrifl...	11.726	214	168884	43.652	ug/L	99
108) 2,5-Dichlorobenzotrifl...	11.762	214	192882	44.545	ug/L	96
109) n-Butylbenzene	11.969	91	735060	52.750	ug/L	98
110) 1,2-Dclbenz	11.963	146	440796	49.009	ug/L	99
111) 1,2-Dibromo-3-chloropr...	12.591	157	63216	51.015	ug/L	98
112) Trielution Dichlorotol...	12.713	125	1202046	146.776	ug/L	99
113) 1,3,5-Trichlorobenzene	12.762	180	299588	47.207	ug/L	97
114) Coelution Dichlorotoluene	13.036	125	852513	98.157	ug/L	99
115) 1,2,4-Tcbenzene	13.244	180	294064	50.638	ug/L	98
116) Hexachlorobt	13.384	225	123971	48.678	ug/L	99
117) Naphthalen	13.432	128	873579	51.879	ug/L	99
118) 1,2,3-Tclbenzene	13.621	180	277377	50.497	ug/L	99
119) 2,4,5-Trichlorotoluene	14.213	159	212096	49.910	ug/L	100
120) 2,3,6-Trichlorotoluene	14.298	159	187447	51.509	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st 06/10/24
2nd 06/14/24

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2744.D
Acq On : 10 Jun 2024 11:17 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 10 11:33:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

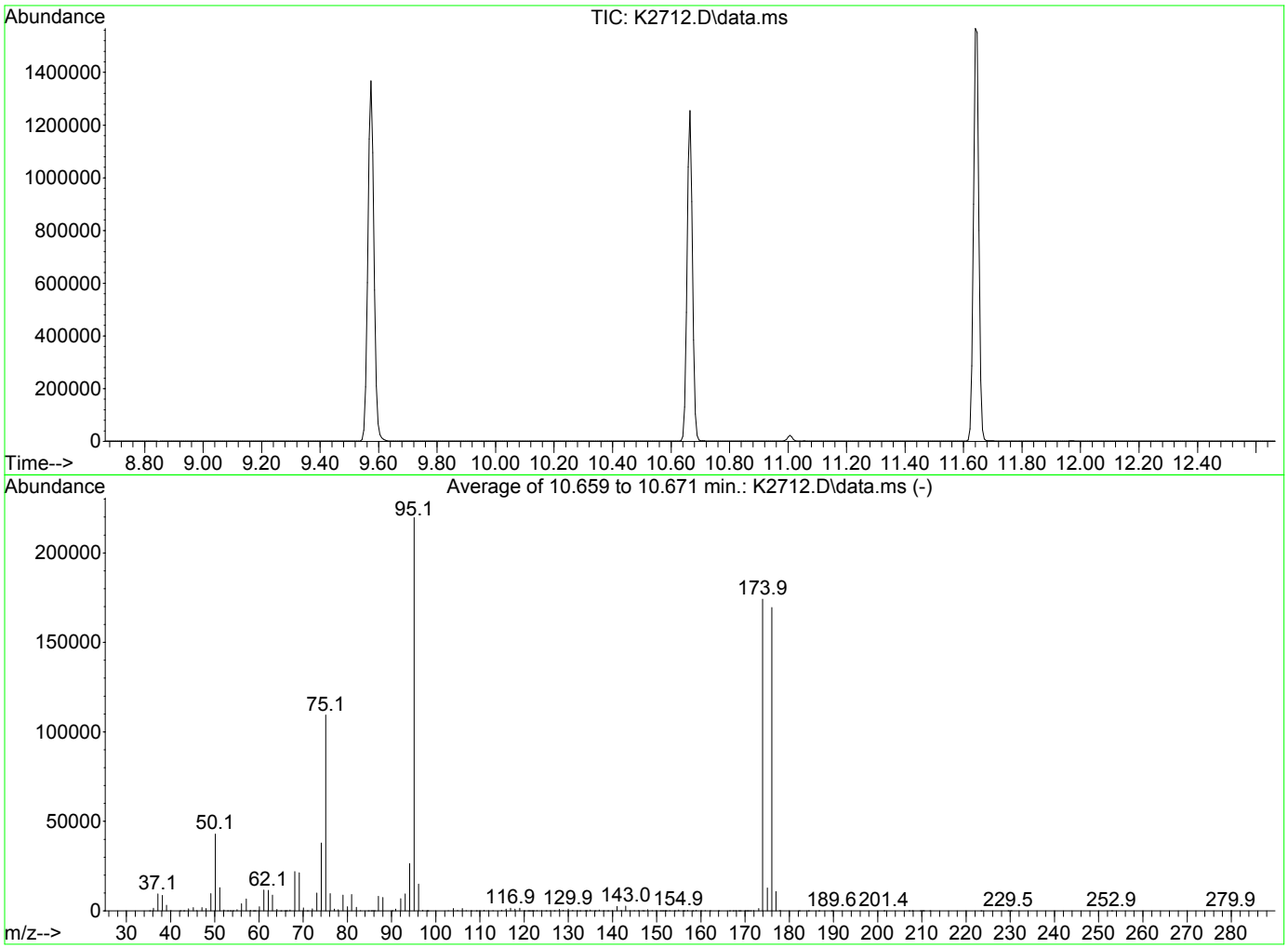


1st 06/09/24
2nd 06/10/24

Data Path : I:\ACQUDATA\MSVOA17\Data\060924\
Data File : K2712.D
Acq On : 09 Jun 2024 09:55 am
Operator : K.Ruest
Sample : TUNE
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Title : MS#17 - 8260 WATERS 5mL Purge
Last Update : Wed Jun 05 10:27:35 2024



AutoFind: Scans 1611, 1612, 1613; Background Corrected with Scan 1605

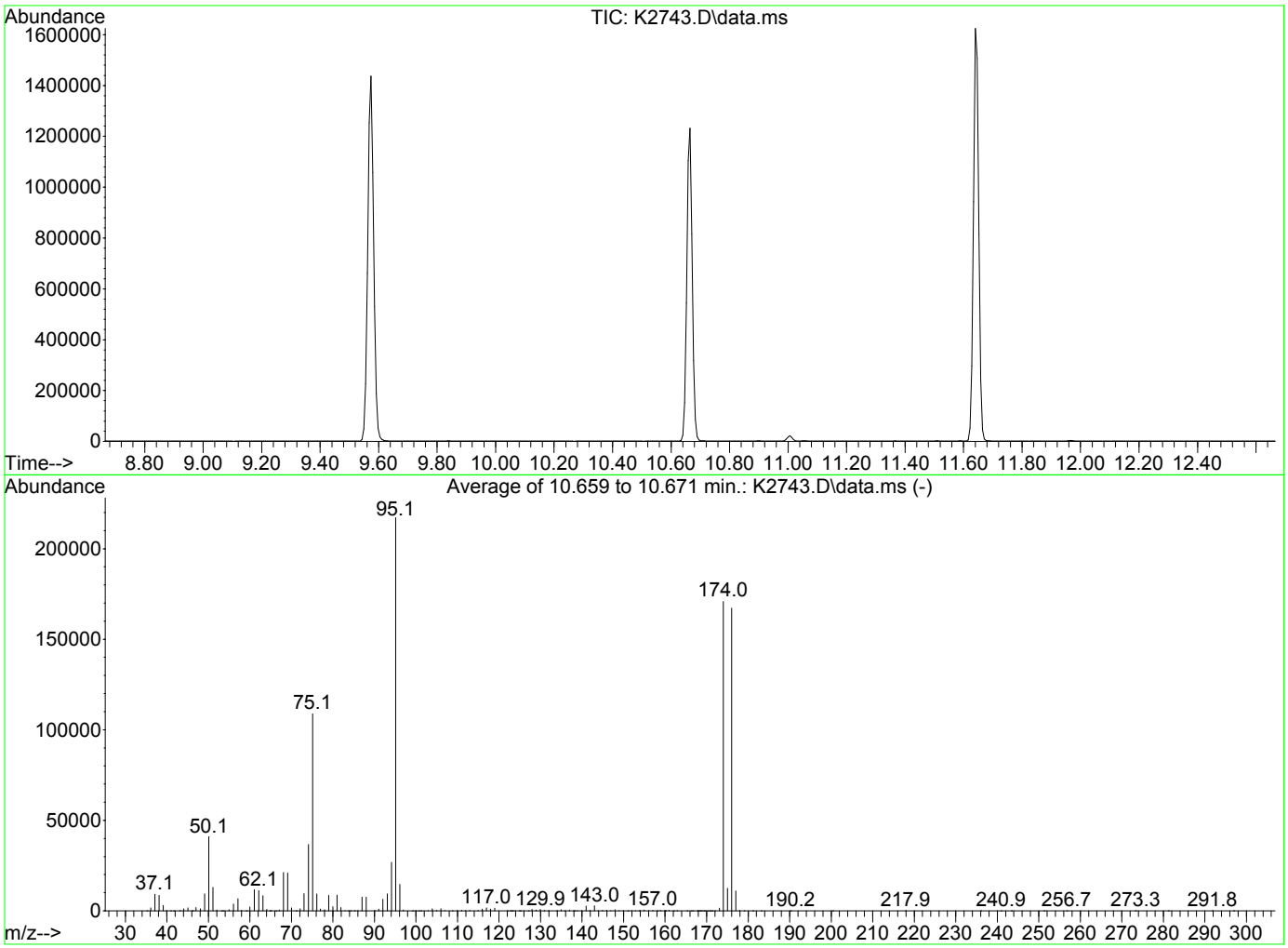
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.5	42941	PASS
75	95	30	80	49.8	109440	PASS
95	95	100	100	100.0	219731	PASS
96	95	5	9	6.8	14950	PASS
173	174	0.00	2	0.8	1389	PASS
174	95	50	120	79.2	174127	PASS
175	174	5	9	7.3	12772	PASS
176	174	95	101	97.3	169451	PASS
177	176	5	9	6.4	10801	PASS

1st 06/10/24
2nd 06/14/24

Data Path : I:\ACQUDATA\MSVOA17\Data\061024\
Data File : K2743.D
Acq On : 10 Jun 2024 10:36 am
Operator : K.Ruest
Sample : TUNE
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Title : MS#17 - 8260 WATERS 5mL Purge
Last Update : Wed Jun 05 10:27:35 2024



AutoFind: Scans 1611, 1612, 1613; Background Corrected with Scan 1605

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.9	40941	PASS
75	95	30	80	50.1	108771	PASS
95	95	100	100	100.0	217173	PASS
96	95	5	9	6.8	14679	PASS
173	174	0.00	2	0.8	1445	PASS
174	95	50	120	78.7	170859	PASS
175	174	5	9	7.3	12482	PASS
176	174	95	101	97.9	167211	PASS
177	176	5	9	6.6	10986	PASS

ALS Group USA, Corp.

DBA ALS Environmetal

QC/QC Report

Date Analyzed: 6/4/24 14:44

ICAL Tune Summary

Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA17\Data\060424\K2515.D Analytical Method: 8260C/624.1

Instrument ID: R-MS-17

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Results Pass/Fail
50	95	15	40	19.1	33091	PASS
75	95	30	60	49.4	85669	PASS
95	95	100	100	100.0	173339	PASS
96	95	5	9	6.9	11881	PASS
173	174	0	2	0.8	1097	PASS
174	95	50	120	83.7	145109	PASS
175	174	5	9	7.0	10170	PASS
176	174	95	101	96.0	139248	PASS
177	176	5	9	6.6	9155	PASS

Sample Name	Lab Code	File ID:	Date Analyzes:	Q
0.5ppb	0.5ppb	I:\ACQUDATA\MSVOA17\Data\060424\K2516.D	6/4/24 15:07	
1.0ppb	1.0ppb	I:\ACQUDATA\MSVOA17\Data\060424\K2517.D	6/4/24 15:30	
2.0ppb	2.0ppb	I:\ACQUDATA\MSVOA17\Data\060424\K2518.D	6/4/24 15:53	
5.0ppb	5.0ppb	I:\ACQUDATA\MSVOA17\Data\060424\K2519.D	6/4/24 16:15	
20ppb	20ppb	I:\ACQUDATA\MSVOA17\Data\060424\K2520.D	6/4/24 16:38	
50ppb	50ppb	I:\ACQUDATA\MSVOA17\Data\060424\K2521.D	6/4/24 17:01	
100ppb	100ppb	I:\ACQUDATA\MSVOA17\Data\060424\K2522.D	6/4/24 17:24	
150ppb	150ppb	I:\ACQUDATA\MSVOA17\Data\060424\K2523.D	6/4/24 17:47	
200ppb	200ppb	I:\ACQUDATA\MSVOA17\Data\060424\K2524.D	6/4/24 18:10	

ALS Group USA, Corp.

DBA ALS Environmetal

QC/QC Report

Date Analyzed: 6/5/24 10:50

ICAL Tune Summary

Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA17\Data\060524\K2533.D Analytical Method: 8260C/624.1

Instrument ID: R-MS-17

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Results Pass/Fail
50	95	15	40	18.6	33877	PASS
75	95	30	60	49.5	90192	PASS
95	95	100	100	100.0	182046	PASS
96	95	5	9	6.7	12269	PASS
173	174	0	2	0.8	1198	PASS
174	95	50	120	82.0	149312	PASS
175	174	5	9	7.3	10960	PASS
176	174	95	101	97.6	145800	PASS
177	176	5	9	6.7	9716	PASS

Sample Name	Lab Code	File ID:	Date Analyzes:	Q
ICV/LCS-50	ICV/LCS-50	I:\ACQUDATA\MSVOA17\Data\060524\K2534.D	6/5/24 11:22	
MBLK-FP	MBLK-FP	I:\ACQUDATA\MSVOA17\DATA\060524\K2537.D	6/5/24 12:41	

1st 06/05/24
2nd 06/06/24

LSC Area Percent Report

Data Path : I:\ACQUDATA\MSVOA17\Data\060524\
Data File : K2537.D
Acq On : 05 Jun 2024 12:41 pm
Operator : K.Ruest
Sample : MBLK-FP
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 250 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0.1 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Title : MS#17 - 8260 WATERS 5mL Purge

Signal : TIC: K2537.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	0.971	17	22	44	rBV	172631	328810	17.19%	3.055%
2	1.453	87	101	106	rBV7	6480	21019	1.10%	0.195%
3	4.830	640	655	670	rBV2	195915	674834	35.29%	6.270%
4	4.989	670	681	710	rVB	308089	1139654	59.59%	10.588%
5	5.416	739	751	773	rBV	215848	660111	34.52%	6.133%
6	6.172	865	875	906	rBV	530921	1383543	72.35%	12.854%
7	8.049	1175	1183	1205	rBV	1020085	1912401	100.00%	17.768%
8	9.574	1426	1433	1446	rBV	1109910	1609975	84.19%	14.958%
9	10.665	1606	1612	1621	rBV	1051380	1335574	69.84%	12.409%
10	11.006	1664	1668	1673	rBV2	17884	23197	1.21%	0.216%
11	11.640	1767	1772	1780	rBV	1338710	1674210	87.54%	15.555%

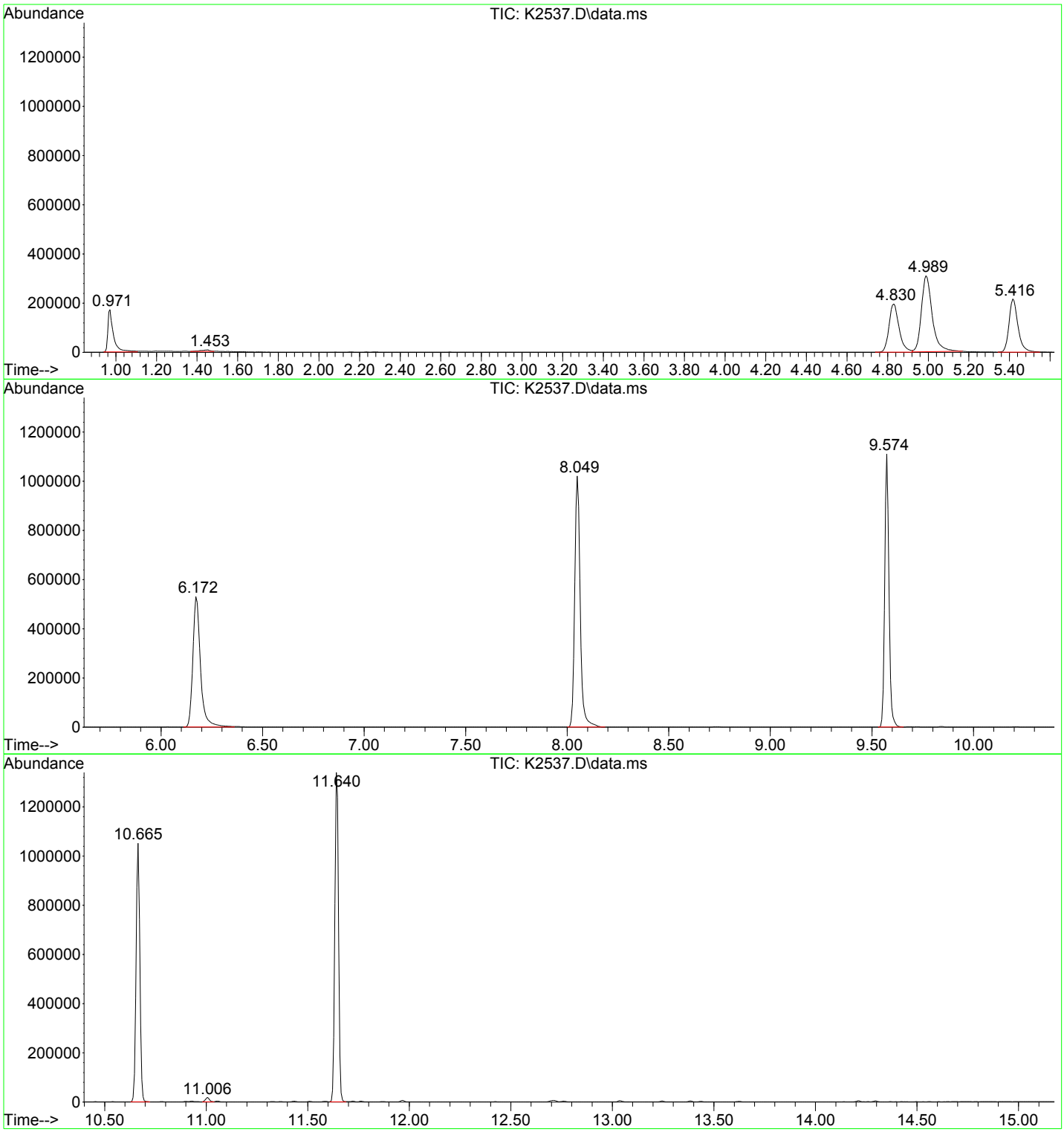
Sum of corrected areas: 10763328

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\MSVOA17\Data\060524\
Data File : K2537.D
Acq On : 05 Jun 2024 12:41 pm
Operator : K.Ruest
Sample : MBLK-FP
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : I:\ACQUDATA\MSVOA17\Data\060524\
Data File : K2537.D
Acq On : 05 Jun 2024 12:41 pm
Operator : K.Ruest
Sample : MBLK-FP
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge

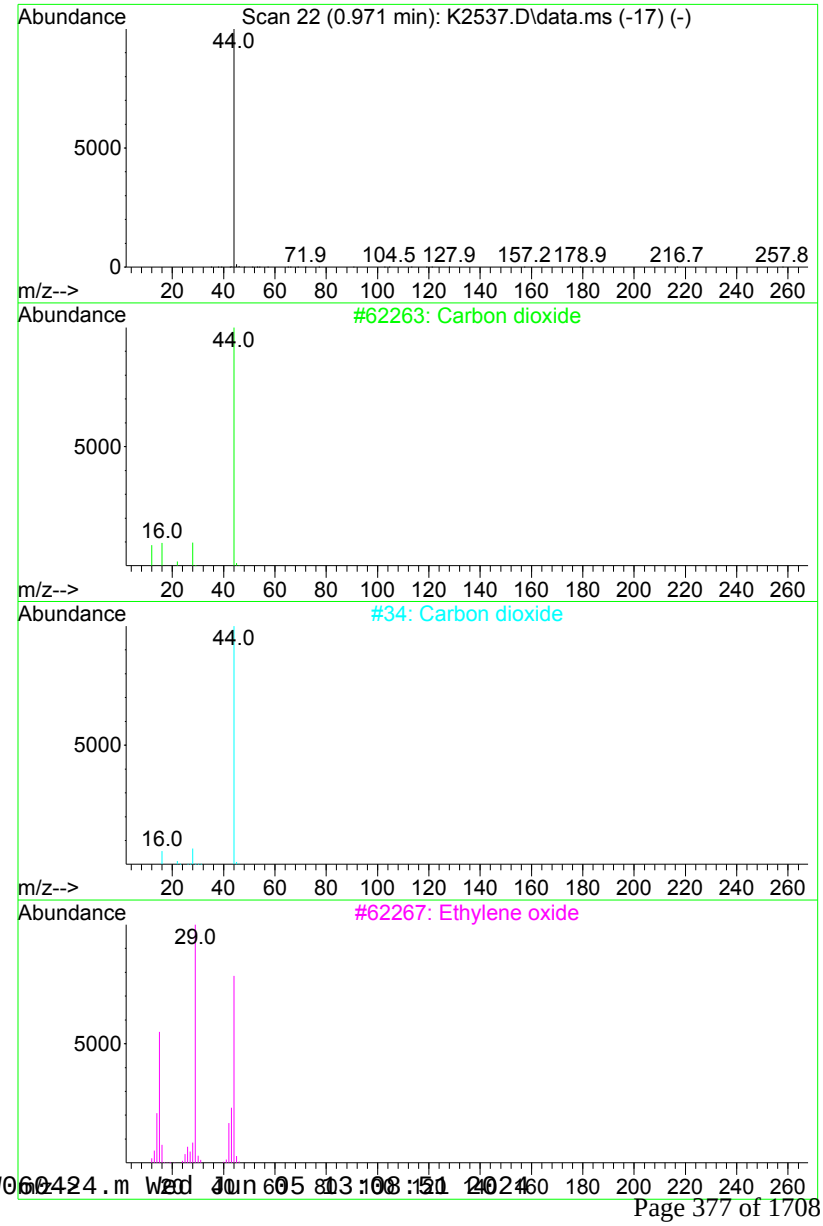
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

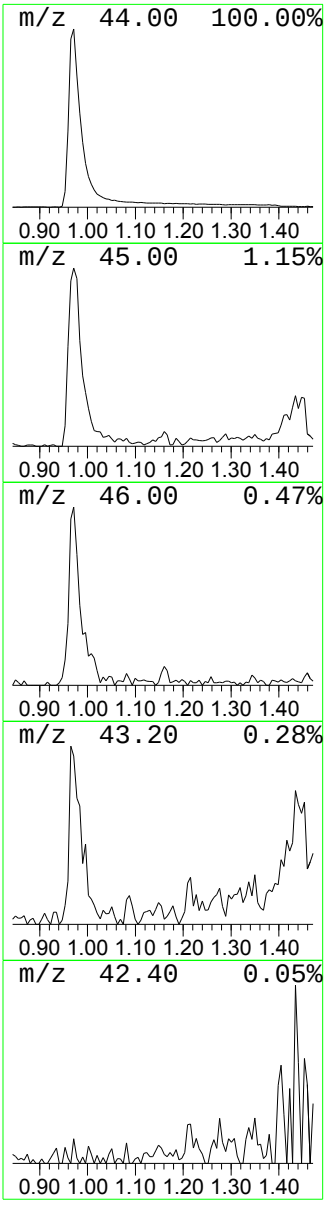
****

Peak Number 1 unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
0.971	14.43 ug/L	328810	Pentafluorobenzene	4.989

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Nitrous Oxide	44	N2O	010024-97-2	3
5	Nitrous Oxide	44	N2O	010024-97-2	3





1st 06/05/24
2nd 06/06/24

Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\MSVOA17\Data\060524\
Data File : K2537.D
Acq On : 05 Jun 2024 12:41 pm
Operator : K.Ruest
Sample : MBLK-FP
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

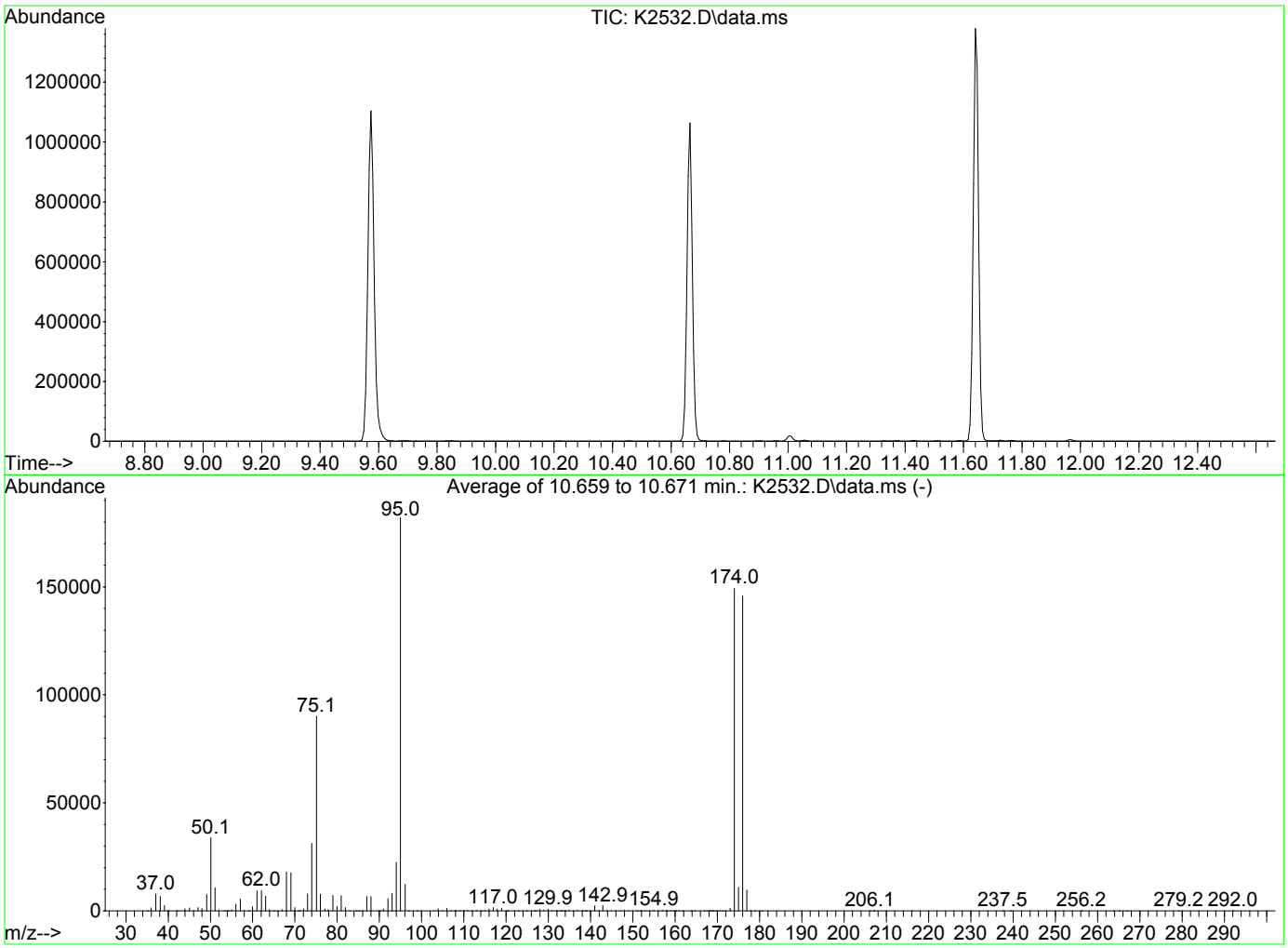
					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown	0.971	14.4	ug/L	328810	1	4.989	1139650	50.0

1st 06/05/24
2nd 06/06/24

Data Path : I:\ACQUDATA\MSVOA17\Data\060524\
Data File : K2532.D
Acq On : 05 Jun 2024 10:17 am
Operator : K.Ruest
Sample : TUNE
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Title : MS#17 - 8260 WATERS 5mL Purge
Last Update : Wed Jun 05 10:27:35 2024



AutoFind: Scans 1611, 1612, 1613; Background Corrected with Scan 1605

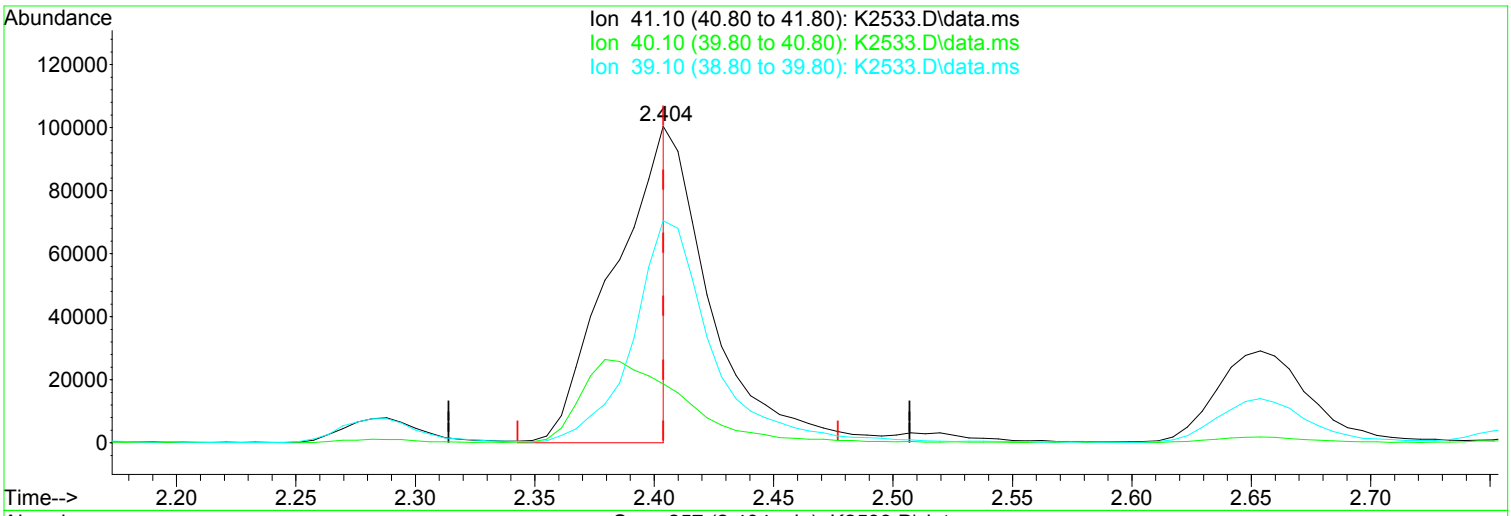
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.6	33877	PASS
75	95	30	80	49.5	90192	PASS
95	95	100	100	100.0	182046	PASS
96	95	5	9	6.7	12269	PASS
173	174	0.00	2	0.8	1198	PASS
174	95	50	120	82.0	149312	PASS
175	174	5	9	7.3	10960	PASS
176	174	95	101	97.6	145800	PASS
177	176	5	9	6.7	9716	PASS

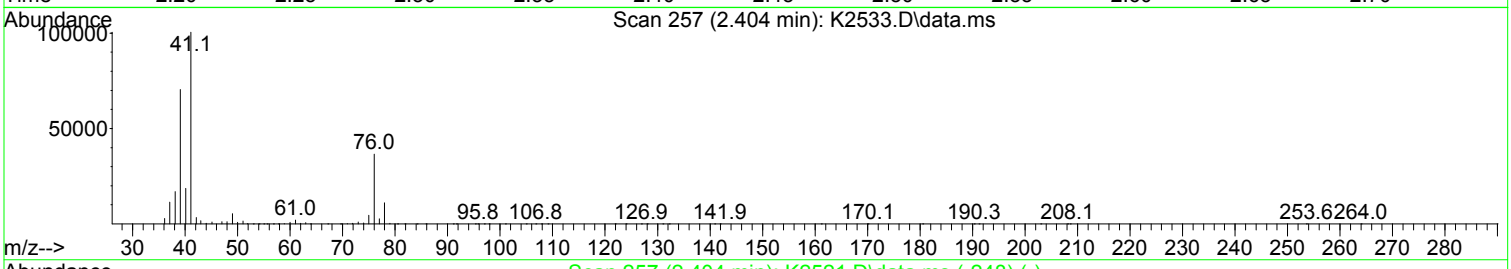
1st 06/05/24
2nd 06/06/24

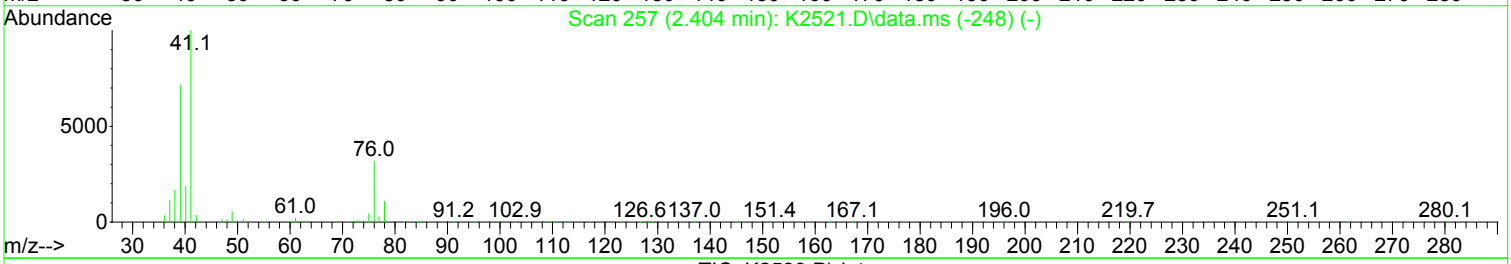
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060524\
Data File : K2533.D
Acq On : 05 Jun 2024 10:50 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 11:28:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2533.D\data.ms

(20) Acetonitrile

2.404min (-0.000) 273.37 ug/L m

response 160065

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	18.80	18.59
39.10	71.30	70.17
0.00	0.00	0.00

Manual Integration:

After

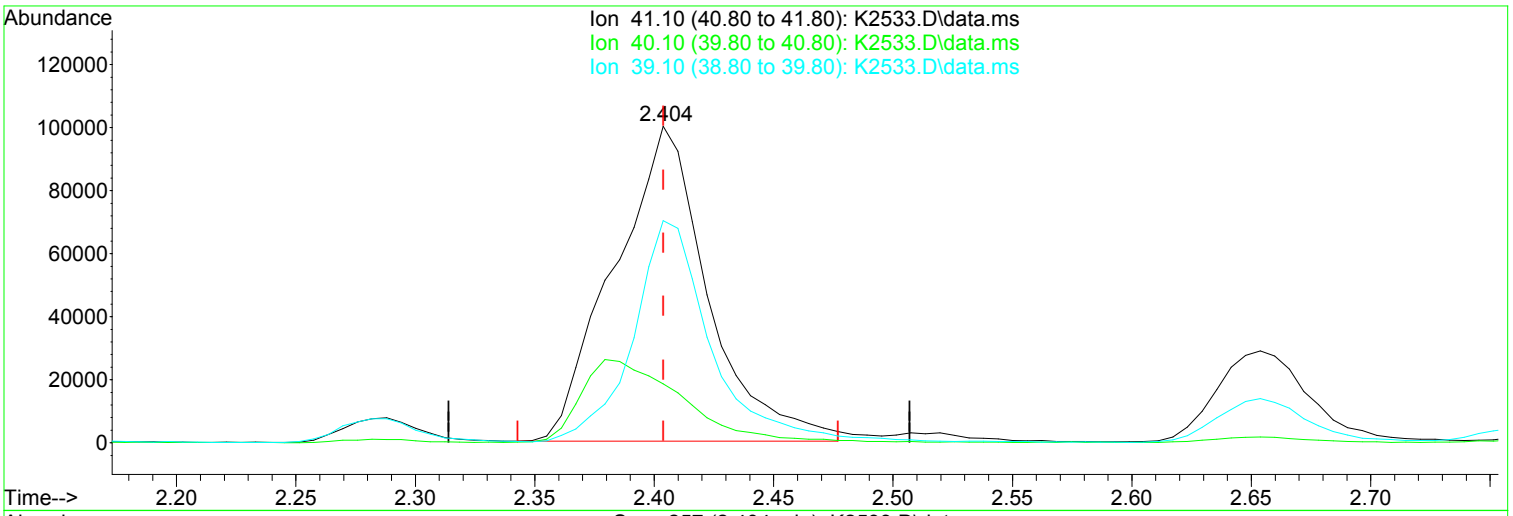
Poor integration.

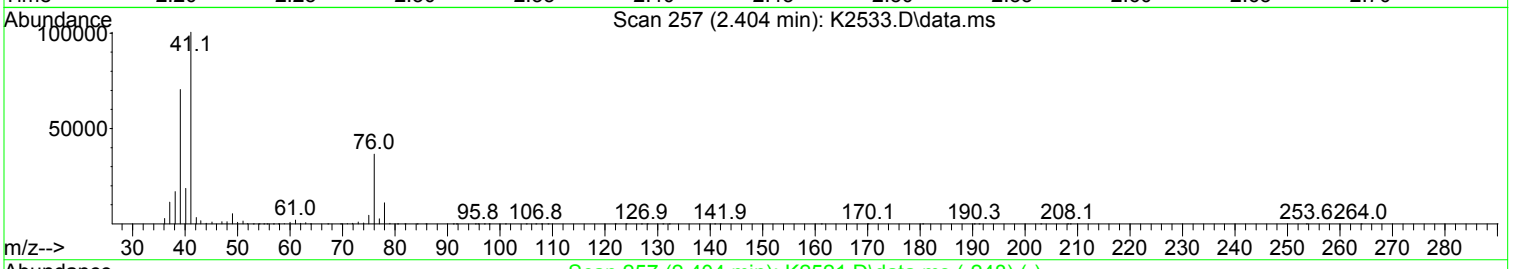
06/05/24

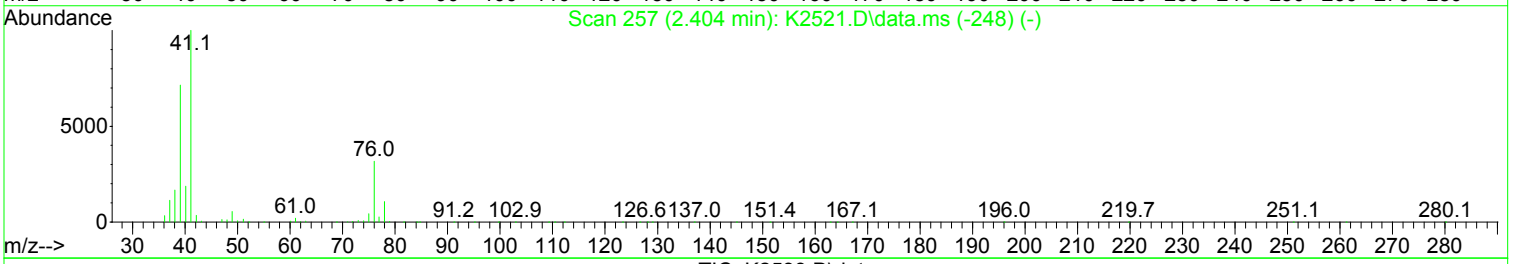
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060524\
Data File : K2533.D
Acq On : 05 Jun 2024 10:50 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 11:28:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2533.D\data.ms

(20) Acetonitrile

2.404min (-0.000) 466.19 ug/L

response 272964

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	18.80	18.59
39.10	71.30	70.17
0.00	0.00	0.00

Manual Integration:

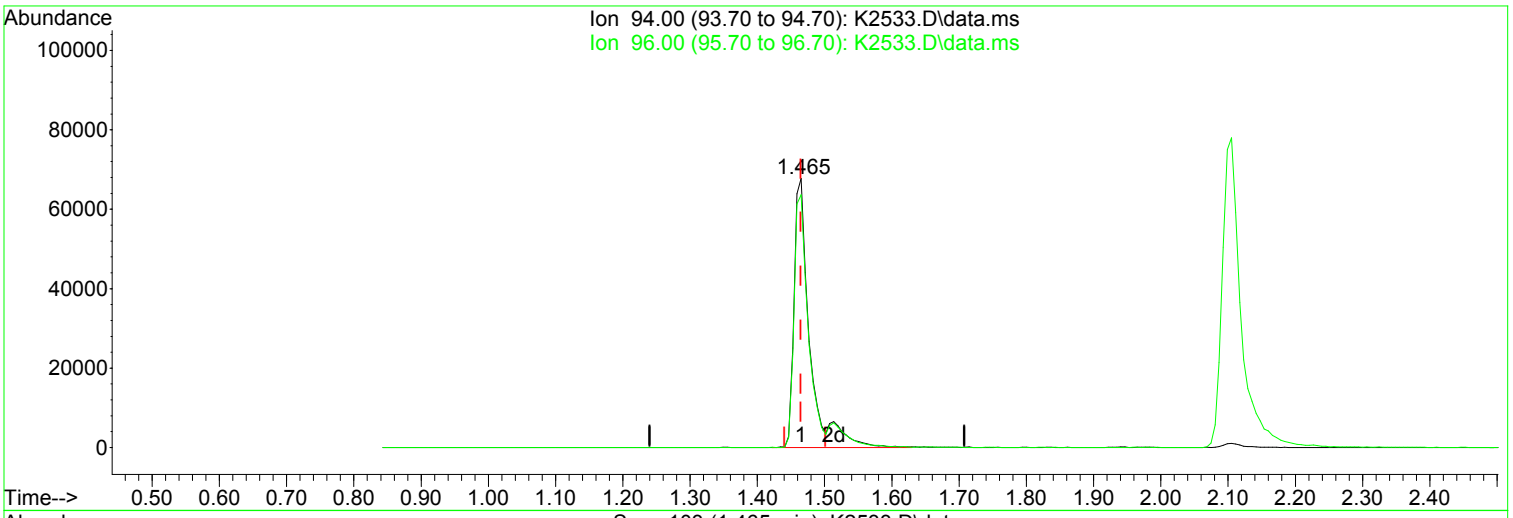
Before

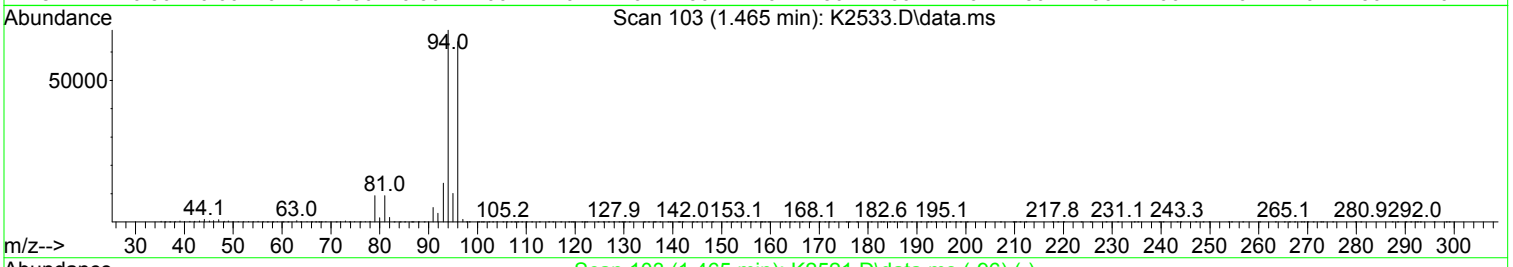
06/05/24

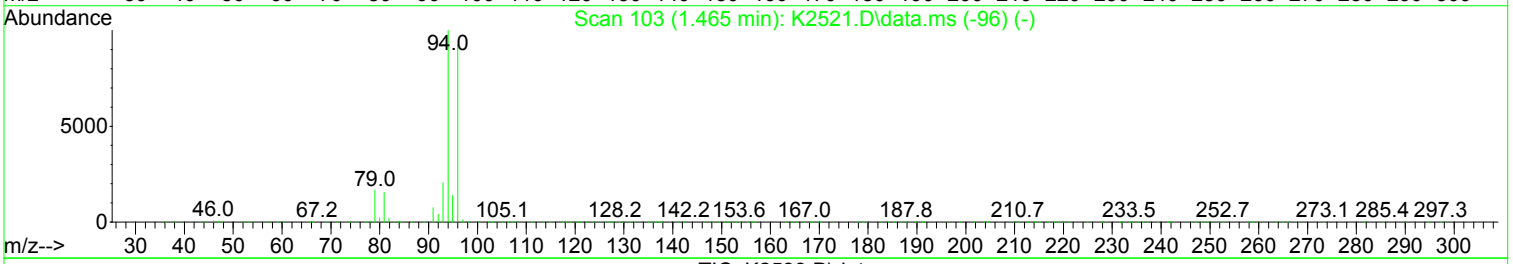
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060524\
Data File : K2533.D
Acq On : 05 Jun 2024 10:50 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 11:28:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2533.D\data.ms

(6) Bromomethane (P)

1.465min (-0.000) 65.35 ug/L m

response 110852

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	92.50	93.98
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

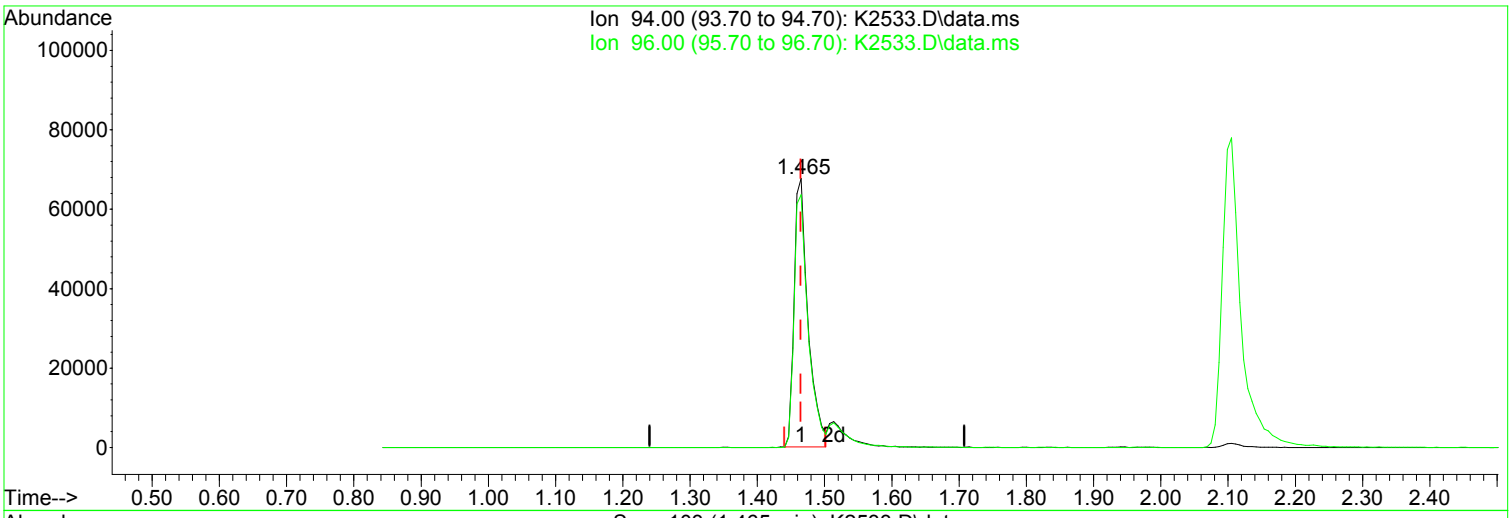
Split Peak.

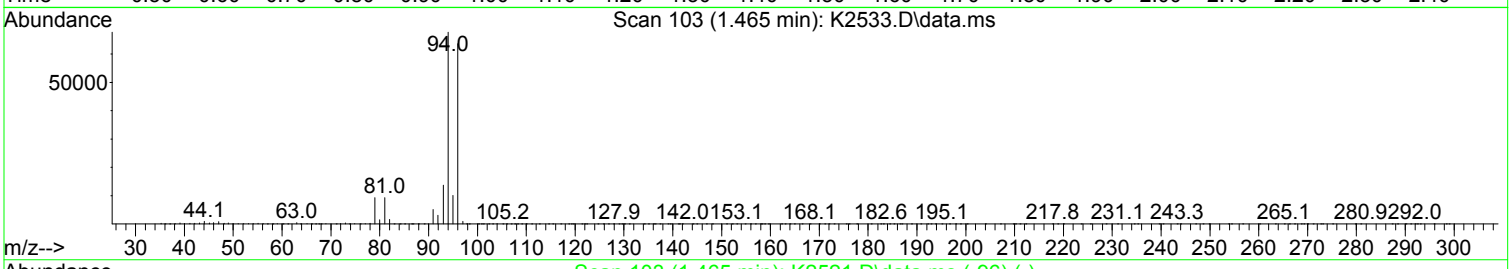
06/05/24

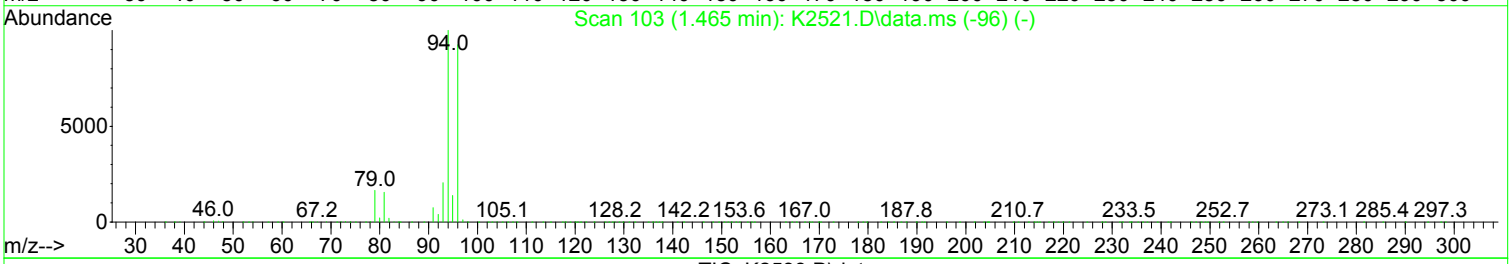
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060524\
Data File : K2533.D
Acq On : 05 Jun 2024 10:50 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 11:28:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2533.D\data.ms

(6) Bromomethane (P)

1.465min (-0.000) 51.75 ug/L

response 96794

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	92.50	93.98
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

06/05/24

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA17\Data\060524\
Data File : K2533.D
Acq On : 05 Jun 2024 10:50 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 11:28:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	i	Pentafluorobenzene	50.000	50.000	0.0	101	0.00
2		Chlorodifluoromethane	50.000	53.715	-7.4	108	0.00
3	P	Dichlorodifluoromethane	50.000	55.277	-10.6	106	0.00
4	P	Chloromethane	50.000	48.926	2.1	99	0.00
5	P	Vinyl Chloride	50.000	53.842	-7.7	109	0.00
6	P	Bromomethane	50.000	65.352	-30.7#	120	0.00
7	P	Chloroethane	50.000	52.903	-5.8	106	0.00
8		Freon 21	50.000	52.998	-6.0	107	0.00
9	P	Trichlorofluoromethane	50.000	53.186	-6.4	108	0.00
10		Diethyl Ether	50.000	53.787	-7.6	108	0.00
11		Freon 123a	50.000	51.741	-3.5	108	0.00
12		Freon 123	50.000	52.458	-4.9	107	0.00
13		Acrolein	250.000	222.753	10.9	94	0.00
14		1,1-Diclethene	50.000	51.970	-3.9	108	0.00
15	P	Freon 113	50.000	51.682	-3.4	110	0.00
16	P	Acetone	50.000	54.936	-9.9	111	0.00
17		2-Propanol	1000.000	1057.973	-5.8	110	0.00
18		Iodomethane	50.000	30.128	39.7#	75	0.00
19	P	Carbon Disulfide	50.000	50.324	-0.6	103	0.00
20		Acetonitrile	250.000	273.370	-9.3	113	0.00
21		Allyl Chloride	50.000	51.278	-2.6	103	0.00
22	P	Methyl Acetate	50.000	50.564	-1.1	107	0.00
23	P	Methylene Chloride	50.000	50.552	-1.1	106	0.00
24		TBA	1000.000	1072.147	-7.2	116	0.00
25		Acrylonitrile	250.000	260.843	-4.3	111	0.00
26	P	Methyl-t-Butyl Ether	50.000	51.147	-2.3	107	0.00
27	P	trans-1,2-Dichloroethene	50.000	52.130	-4.3	108	0.00
28	P	1,1-Diclethane	50.000	51.380	-2.8	107	0.00
29		Vinyl Acetate	50.000	53.520	-7.0	107	0.00
30		DIPE	50.000	50.266	-0.5	102	0.00
31		2-Chloro-1,3-Butadiene	50.000	52.292	-4.6	103	0.00
32		ETBE	50.000	49.928	0.1	101	0.00
33		2,2-Dichloropropane	50.000	49.692	0.6	105	0.00
34	P	cis-1,2-Dichloroethene	50.000	51.528	-3.1	108	0.00
35	P	2-Butanone	50.000	50.590	-1.2	109	0.00
36		Propionitrile	250.000	263.382	-5.4	110	0.00
37		Bromochloromethane	50.000	51.130	-2.3	105	0.00
38		Methacrylonitrile	50.000	52.956	-5.9	110	0.00
39		Tetrahydrofuran	50.000	51.362	-2.7	112	0.00
40	P	Chloroform	50.000	50.743	-1.5	106	0.00
41	P	1,1,1-Trichloroethane	50.000	52.174	-4.3	109	0.00
42		TAME	50.000	49.829	0.3	102	0.00
43	i	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
44	P	Cyclohexane	50.000	52.469	-4.9	104	0.00
45	s	surr4,Dibrflmethane	50.000	52.002	-4.0	102	0.00
46	P	Carbontetrachloride	50.000	47.934	4.1	109	0.00
47		1,1-Dichloropropene	50.000	49.739	0.5	113	0.00
48	s	surr1,1,2-dichloroethane-d4	50.000	51.942	-3.9	103	0.00
49	P	Benzene	50.000	51.798	-3.6	108	0.00
50	P	1,2-Dichloroethane	50.000	51.257	-2.5	106	0.00
51		Iso-Butyl Alcohol	1000.000	1098.505	-9.9	117	0.00

1st 06/05/24
2nd 06/06/24

Data Path : I:\ACQUDATA\MSVOA17\Data\060524\
Data File : K2533.D
Acq On : 05 Jun 2024 10:50 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 11:28:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52		n-Heptane	50.000	48.704	2.6	111	0.00
53		1-Butanol	2500.000	2709.584	-8.4	110	0.00
54	P	Trichloroethene	50.000	52.565	-5.1	109	0.00
55	P	Methylcyclohexane	50.000	51.533	-3.1	104	0.00
56	P	1,2-Diclpropane	50.000	50.928	-1.9	107	0.00
57		Dibromomethane	50.000	51.331	-2.7	107	0.00
58		1,4-Dioxane	1000.000	1045.037	-4.5	112	0.00
59		Methyl Methacrylate	50.000	55.058	-10.1	112	0.00
60	P	Bromodichloromethane	50.000	52.219	-4.4	104	0.00
61		2-Nitropropane	100.000	107.356	-7.4	110	0.00
62		2-Chloroethylvinyl Ether	50.000	52.920	-5.8	110	0.00
63	P	cis-1,3-Dichloropropene	50.000	54.520	-9.0	108	0.00
64	P	4-Methyl-2-pentanone	50.000	52.036	-4.1	109	0.00
65	s	SURR3,Toluene-d8	50.000	51.150	-2.3	101	0.00
66	P	Toluene	50.000	51.138	-2.3	110	0.00
67	P	trans-1,3-Dichloropropene	50.000	55.033	-10.1	108	0.00
68		Ethyl Methacrylate	50.000	52.928	-5.9	107	0.00
69	P	1,1,2-Trichloroethane	50.000	52.494	-5.0	107	0.00
70	s	SURR2,BFB	50.000	49.999	0.0	102	0.00
71	i	d5-Chlorobenzene	50.000	50.000	0.0	100	0.00
72	P	Tetrachloroethene	50.000	51.150	-2.3	110	0.00
73	P	2-Hexanone	50.000	52.746	-5.5	113	0.00
74		1,3-Dichloropropane	50.000	51.627	-3.3	108	0.00
75	P	Dibromochloromethane	50.000	54.480	-9.0	107	0.00
76		N-Butyl Acetate	50.000	51.172	-2.3	105	0.00
77	P	1,2-Dibromoethane	50.000	53.095	-6.2	111	0.00
78		3-Chlorobenzotrifluoride	50.000	48.197	3.6	99	0.00
79	P	Chlorobenzene	50.000	50.075	-0.2	110	0.00
80		4-Chlorobenzotrifluoride	50.000	47.908	4.2	97	0.00
81		1,1,1,2-Tetrachloroethane	50.000	52.555	-5.1	108	0.00
82	P	Ethylbenzene	50.000	50.550	-1.1	111	0.00
83	P	(m+p)Xylene	100.000	102.442	-2.4	109	0.00
84	P	o-Xylene	50.000	51.634	-3.3	109	0.00
85	P	Styrene	50.000	52.464	-4.9	108	0.00
86	P	Bromoform	50.000	56.848	-13.7	110	0.00
87		2-Chlorobenzotrifluoride	50.000	48.564	2.9	98	0.00
88	P	Isopropylbenzene	50.000	51.989	-4.0	111	0.00
89		Cyclohexanone	1000.000	1093.204	-9.3	135	0.00
90		trans-1,4-Dichloro-2-Butene	50.000	50.071	-0.1	110	0.00
91	i	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	98	0.00
92	P	1,1,2,2-Tetrachloroethane	50.000	50.264	-0.5	108	0.00
93		Bromobenzene	50.000	50.439	-0.9	107	0.00
94		1,2,3-Trichloropropane	50.000	49.156	1.7	109	0.00
95		n-Propylbenzene	50.000	51.212	-2.4	111	0.00
96		2-Chlorotoluene	50.000	50.699	-1.4	110	0.00
97		3-Chlorotoluene	50.000	49.226	1.5	100	0.00
98		4-Chlorotoluene	50.000	50.191	-0.4	108	0.00
99		1,3,5-Trimethylbenzene	50.000	51.193	-2.4	110	0.00
100		tert-Butylbenzene	50.000	50.680	-1.4	111	0.00
101		1,2,4-Trimethylbenzene	50.000	51.831	-3.7	110	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA17\Data\060524\
Data File : K2533.D
Acq On : 05 Jun 2024 10:50 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 11:28:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
102		3,4-Dichlorobenzotrifluorid	50.000	47.930	4.1	97	0.00
103		sec-Butylbenzene	50.000	51.501	-3.0	113	0.00
104		p-Isopropyltoluene	50.000	52.873	-5.7	112	0.00
105	P	1,3-Dclbenz	50.000	50.308	-0.6	109	0.00
106	P	1,4-Dclbenz	50.000	49.591	0.8	109	0.00
107		2,4-Dichlorobenzotrifluorid	50.000	48.973	2.1	99	0.00
108		2,5-Dichlorobenzotrifluorid	50.000	49.101	1.8	96	0.00
109		n-Butylbenzene	50.000	52.313	-4.6	112	0.00
110	P	1,2-Dclbenz	50.000	50.787	-1.6	108	0.00
111	P	1,2-Dibromo-3-chloropropane	50.000	54.801	-9.6	110	0.00
112		Trielution Dichlorotoluene	150.000	153.343	-2.2	99	0.00
113		1,3,5-Trichlorobenzene	50.000	50.185	-0.4	97	0.00
114		Coelution Dichlorotoluene	100.000	102.609	-2.6	100	0.00
115	P	1,2,4-Tcbenzene	50.000	53.690	-7.4	111	0.00
116		Hexachlorobt	50.000	52.503	-5.0	112	0.00
117		Naphthalen	50.000	54.657	-9.3	107	0.00
118		1,2,3-Tclbenzene	50.000	54.075	-8.2	110	0.00
119		2,4,5-Trichlorotoluene	50.000	54.251	-8.5	101	0.00
120		2,3,6-Trichlorotoluene	50.000	55.583	-11.2	113	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060524\
Data File : K2533.D
Acq On : 05 Jun 2024 10:50 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 11:28:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.989	168	384574	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.171	114	575816	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.573	117	509340	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	11.640	152	259763	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.824	113	201757	52.00	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 104.00%				
48) surr1,1,2-dichloroetha...	5.415	65	244200	51.94	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 103.88%				
65) SURR3,Toluene-d8	8.049	98	687680	51.15	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.30%				
70) SURR2,BFB	10.665	95	252679	50.00	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.00%				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.087	51	173930	53.715	ug/L		99
3) Dichlorodifluoromethane	1.075	85	251749	55.277	ug/L		98
4) Chloromethane	1.197	50	194296	48.926	ug/L		99
5) Vinyl Chloride	1.258	62	207513	53.842	ug/L		98
6) Bromomethane	1.465	94	110852m	65.352	ug/L		
7) Chloroethane	1.532	64	131273	52.903	ug/L		98
8) Freon 21	1.672	67	290438	52.998	ug/L		97
9) Trichlorofluoromethane	1.715	101	279987	53.186	ug/L		97
10) Diethyl Ether	1.928	59	145922	53.787	ug/L		98
11) Freon 123a	1.934	67	166510	51.741	ug/L		96
12) Freon 123	1.983	83	218340	52.458	ug/L		98
13) Acrolein	2.026	56	89364	222.753	ug/L		95
14) 1,1-Diclethene	2.105	96	152661	51.970	ug/L		99
15) Freon 113	2.105	101	157768	51.682	ug/L		93
16) Acetone	2.154	43	54744	54.936	ug/L		98
17) 2-Propanol	2.282	45	233566	1057.973	ug/L		99
18) Iodomethane	2.227	142	71079	30.128	ug/L		97
19) Carbon Disulfide	2.276	76	409367	50.324	ug/L		100
20) Acetonitrile	2.404	41	160065m	273.370	ug/L		
21) Allyl Chloride	2.410	76	77547	51.278	ug/L	#	89
22) Methyl Acetate	2.434	43	158093	50.564	ug/L		98
23) Methylene Chloride	2.514	84	158226	50.552	ug/L		95
24) TBA	2.654	59	486178	1072.147	ug/L		100
25) Acrylonitrile	2.757	53	352198	260.843	ug/L		98
26) Methyl-t-Butyl Ether	2.794	73	500001	51.147	ug/L		100
27) trans-1,2-Dichloroethene	2.782	96	161672	52.130	ug/L		98
28) 1,1-Diclethane	3.245	63	296370	51.380	ug/L		98
29) Vinyl Acetate	3.330	86	20532	53.520	ug/L	#	71
30) DIPE	3.355	45	417750	50.266	ug/L		99
31) 2-Chloro-1,3-Butadiene	3.355	53	259299	52.292	ug/L		98
32) ETBE	3.843	59	526663	49.928	ug/L		99
33) 2,2-Dichloropropane	4.007	77	250419	49.692	ug/L		98
34) cis-1,2-Dichloroethene	4.013	96	181885	51.528	ug/L		99
35) 2-Butanone	4.074	43	72577	50.590	ug/L		97
36) Propionitrile	4.153	54	146628	263.382	ug/L		96
37) Bromochloromethane	4.379	130	122384	51.130	ug/L		91
38) Methacrylonitrile	4.397	67	78107	52.956	ug/L		94
39) Tetrahydrofuran	4.477	42	48562	51.362	ug/L		100
40) Chloroform	4.550	83	287725	50.743	ug/L		97

1st 06/05/24
2nd 06/06/24

Data Path : I:\ACQUDATA\MSVOA17\Data\060524\
Data File : K2533.D
Acq On : 05 Jun 2024 10:50 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 11:28:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-Trichloroethane	4.824	97	281002	52.174	ug/L	99
42) TAME	5.763	73	458341	49.829	ug/L	98
44) Cyclohexane	4.909	41	126756	52.469	ug/L	98
46) Carbontetrachloride	5.123	117	259229	47.934	ug/L	97
47) 1,1-Dichloropropene	5.141	75	203054	49.739	ug/L	98
49) Benzene	5.495	78	576607	51.798	ug/L	99
50) 1,2-Dichloroethane	5.543	62	263098	51.257	ug/L	99
51) Iso-Butyl Alcohol	5.562	43	148958	1098.505	ug/L	100
52) n-Heptane	6.025	43	159684	48.704	ug/L	100
53) 1-Butanol	6.586	56	275705	2709.584	ug/L	99
54) Trichloroethene	6.507	130	190110	52.565	ug/L	97
55) Methylcyclohexane	6.744	55	210251	51.533	ug/L	98
56) 1,2-Diclpropane	6.805	63	161885	50.928	ug/L	100
57) Dibromomethane	6.952	93	111606	51.331	ug/L	99
58) 1,4-Dioxane	7.031	88	51524	1045.037	ug/L	100
59) Methyl Methacrylate	7.055	69	119908	55.058	ug/L	98
60) Bromodichloromethane	7.190	83	229001	52.219	ug/L	99
61) 2-Nitropropane	7.494	41	108343	107.356	ug/L	96
62) 2-Chloroethylvinyl Ether	7.622	63	112980	52.920	ug/L	99
63) cis-1,3-Dichloropropene	7.750	75	251804	54.520	ug/L	99
64) 4-Methyl-2-pentanone	7.976	43	156729	52.036	ug/L	98
66) Toluene	8.122	91	653903	51.138	ug/L	99
67) trans-1,3-Dichloropropene	8.409	75	237689	55.033	ug/L	99
68) Ethyl Methacrylate	8.561	69	220145	52.928	ug/L	99
69) 1,1,2-Trichloroethane	8.604	97	160751	52.494	ug/L	99
72) Tetrachloroethene	8.726	164	142915	51.150	ug/L	98
73) 2-Hexanone	8.909	43	112997	52.746	ug/L	99
74) 1,3-Dichloropropane	8.775	76	246820	51.627	ug/L	99
75) Dibromochloromethane	9.000	129	207332	54.480	ug/L	100
76) N-Butyl Acetate	9.073	43	234914	51.172	ug/L	98
77) 1,2-Dibromoethane	9.098	107	161593	53.095	ug/L	100
78) 3-Chlorobenzotrifluoride	9.634	180	245300	48.197	ug/L	97
79) Chlorobenzene	9.598	112	454522	50.075	ug/L	99
80) 4-Chlorobenzotrifluoride	9.689	180	220166	47.908	ug/L	99
81) 1,1,1,2-Tetrachloroethane	9.689	131	190919	52.555	ug/L	99
82) Ethylbenzene	9.726	106	240747	50.550	ug/L	96
83) (m+p)Xylene	9.841	106	590276	102.442	ug/L	97
84) o-Xylene	10.201	106	295876	51.634	ug/L	99
85) Styrene	10.213	104	495051	52.464	ug/L	94
86) Bromoform	10.366	173	128854	56.848	ug/L	99
87) 2-Chlorobenzotrifluoride	10.457	180	237061	48.564	ug/L	100
88) Isopropylbenzene	10.543	105	772182	51.989	ug/L	99
89) Cyclohexanone	10.604	55	360236	1093.204	ug/L	97
90) trans-1,4-Dichloro-2-B...	10.860	53	59705	50.071	ug/L	98
92) 1,1,2,2-Tetrachloroethane	10.811	83	206380	50.264	ug/L	99
93) Bromobenzene	10.780	156	199748	50.439	ug/L	99
94) 1,2,3-Trichloropropane	10.835	110	74200	49.156	ug/L	98
95) n-Propylbenzene	10.896	91	850952	51.212	ug/L	98
96) 2-Chlorotoluene	10.957	91	519186	50.699	ug/L	99
97) 3-Chlorotoluene	11.012	91	544693	49.226	ug/L	100
98) 4-Chlorotoluene	11.055	91	595289	50.191	ug/L	99
99) 1,3,5-Trimethylbenzene	11.055	105	667392	51.193	ug/L	98
100) tert-Butylbenzene	11.329	119	579939	50.680	ug/L	99
101) 1,2,4-Trimethylbenzene	11.366	105	675906	51.831	ug/L	99
102) 3,4-Dichlorobenzotrifl...	11.433	214	175650	47.930	ug/L	99
103) sec-Butylbenzene	11.512	105	811373	51.501	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060524\
Data File : K2533.D
Acq On : 05 Jun 2024 10:50 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 11:28:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

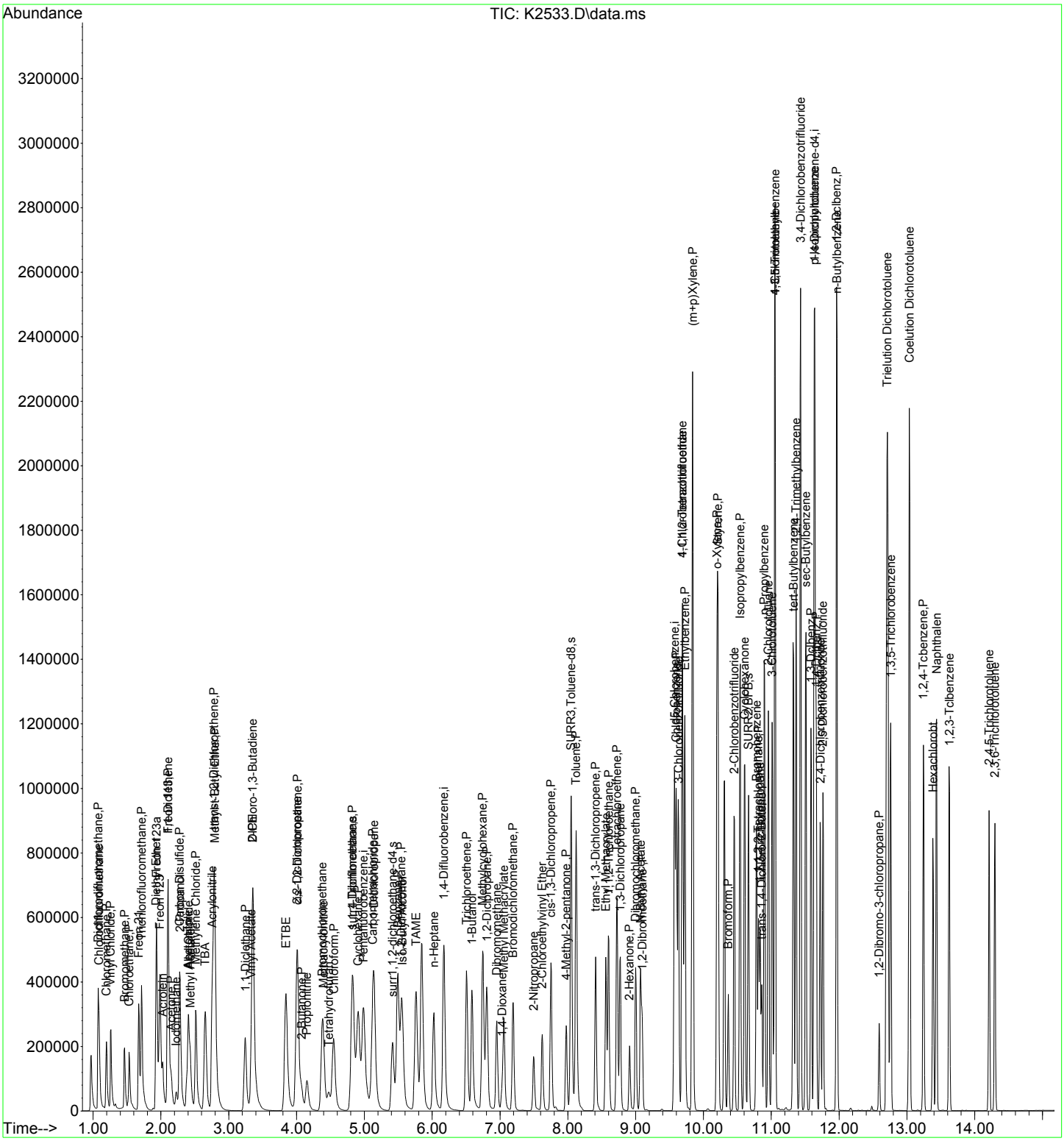
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) p-Isopropyltoluene	11.634	119	729087	52.873	ug/L	100
105) 1,3-Dclbenz	11.585	146	385404	50.308	ug/L	99
106) 1,4-Dclbenz	11.664	146	385829	49.591	ug/L	99
107) 2,4-Dichlorobenzotrifl...	11.725	214	157237	48.973	ug/L	100
108) 2,5-Dichlorobenzotrifl...	11.762	214	176441	49.101	ug/L	97
109) n-Butylbenzene	11.969	91	604951	52.313	ug/L	99
110) 1,2-Dclbenz	11.963	146	379075	50.787	ug/L	96
111) 1,2-Dibromo-3-chloropr...	12.591	157	56355	54.801	ug/L	95
112) Trielution Dichlorotol...	12.713	125	1042182	153.343	ug/L	98
113) 1,3,5-Trichlorobenzene	12.762	180	264300	50.185	ug/L	98
114) Coelution Dichlorotoluene	13.036	125	739570	102.609	ug/L	98
115) 1,2,4-Tcbenzene	13.243	180	258746	53.690	ug/L	98
116) Hexachlorobt	13.384	225	110964	52.503	ug/L	98
117) Naphthalen	13.438	128	763791	54.657	ug/L	99
118) 1,2,3-Tclbenzene	13.627	180	246497	54.075	ug/L	98
119) 2,4,5-Trichlorotoluene	14.213	159	191323	54.251	ug/L	99
120) 2,3,6-Trichlorotoluene	14.298	159	167861	55.583	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060524\
Data File : K2533.D
Acq On : 05 Jun 2024 10:50 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

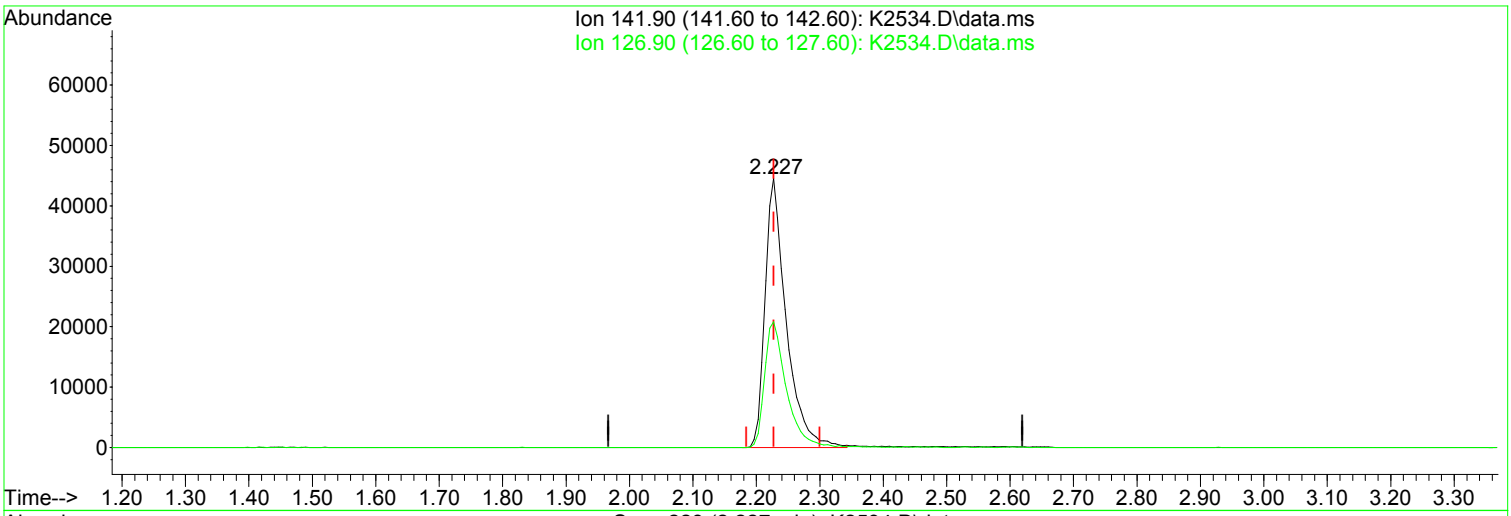
Quant Time: Jun 05 11:28:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

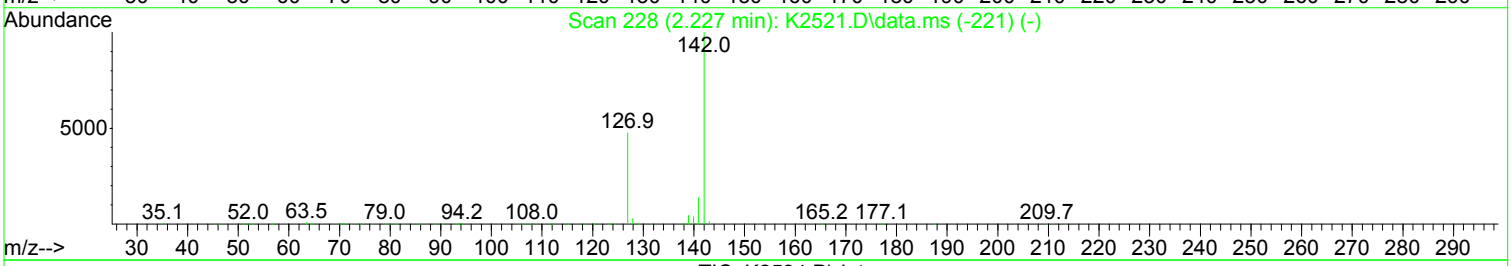


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060524\
Data File : K2534.D
Acq On : 05 Jun 2024 11:22 am
Operator : K.Ruest
Sample : ICV/LCS-50
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 11:37:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration





TIC: K2534.D\data.ms

(18) Iodomethane

2.227min (-0.000) 43.42 ug/L m

response 103296

Ion	Exp%	Act%
141.90	100.00	100.00
126.90	47.60	46.75
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

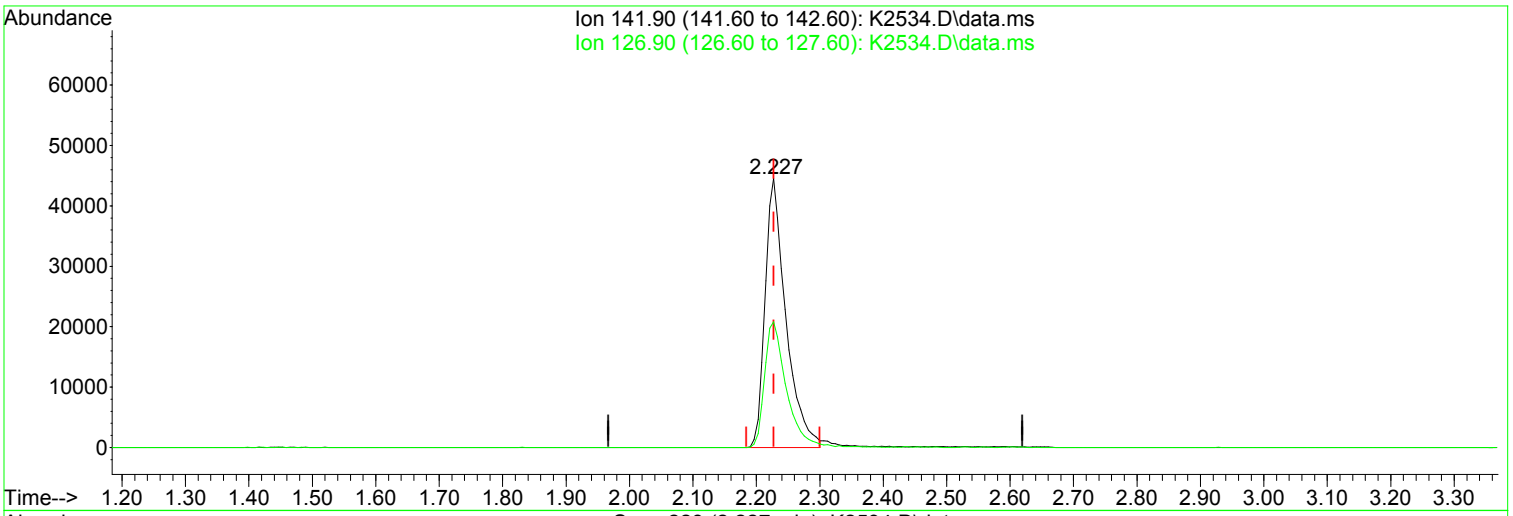
Poor integration.

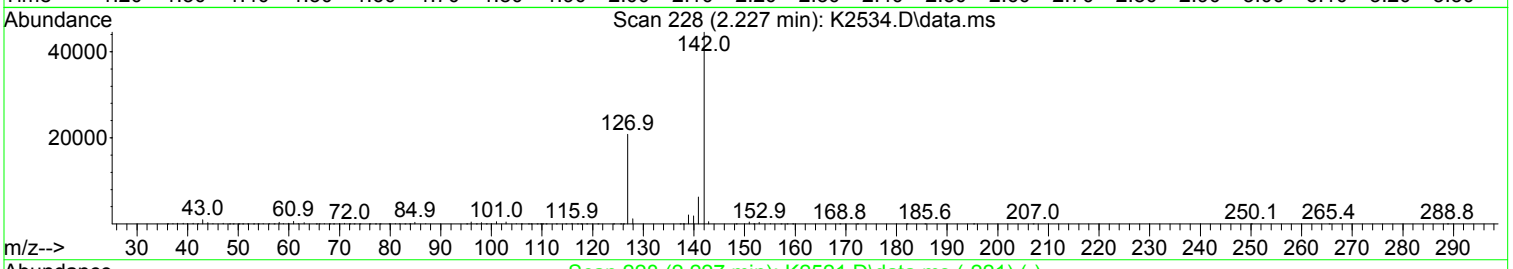
06/05/24

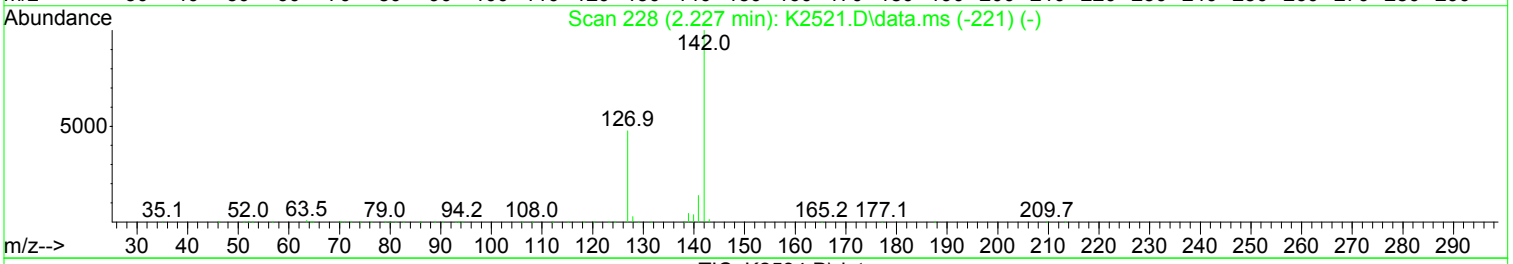
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060524\
Data File : K2534.D
Acq On : 05 Jun 2024 11:22 am
Operator : K.Ruest
Sample : ICV/LCS-50
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 11:37:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2534.D\data.ms

(18) Iodomethane

2.227min (-0.000) 42.66 ug/L

response 101488

Ion	Exp%	Act%
141.90	100.00	100.00
126.90	47.60	46.75
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

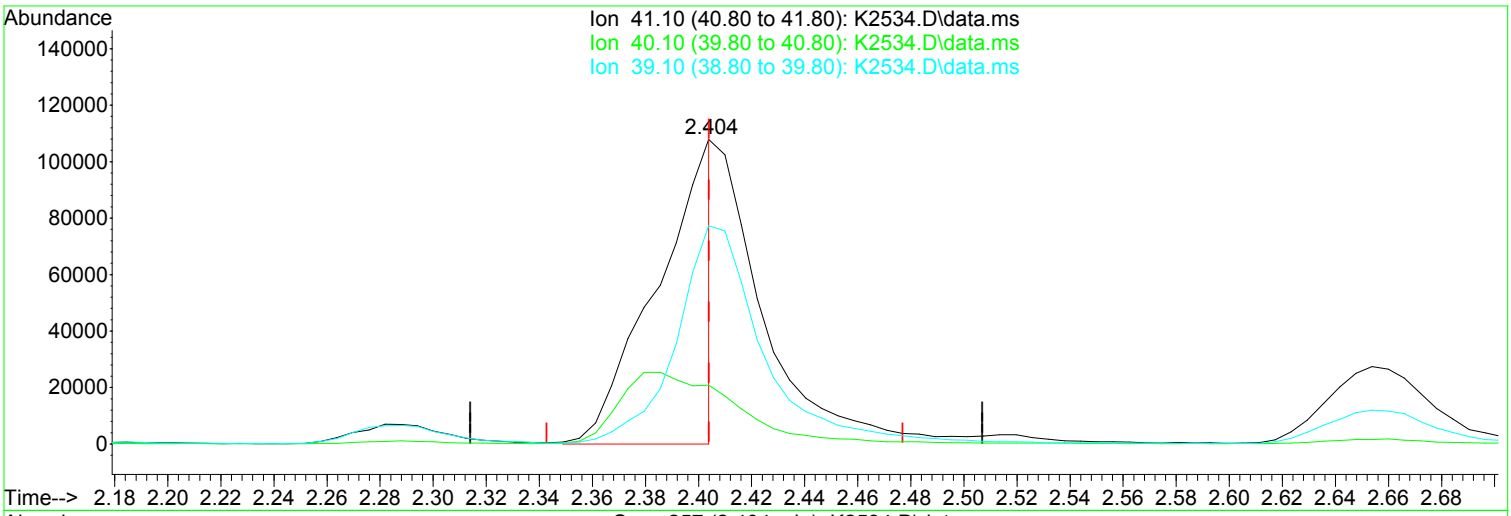
06/05/24

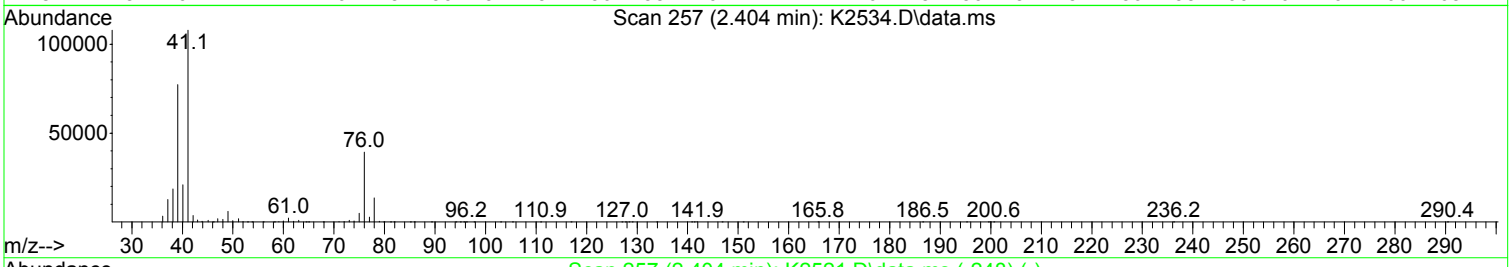
1st 06/05/24
2nd 06/06/24

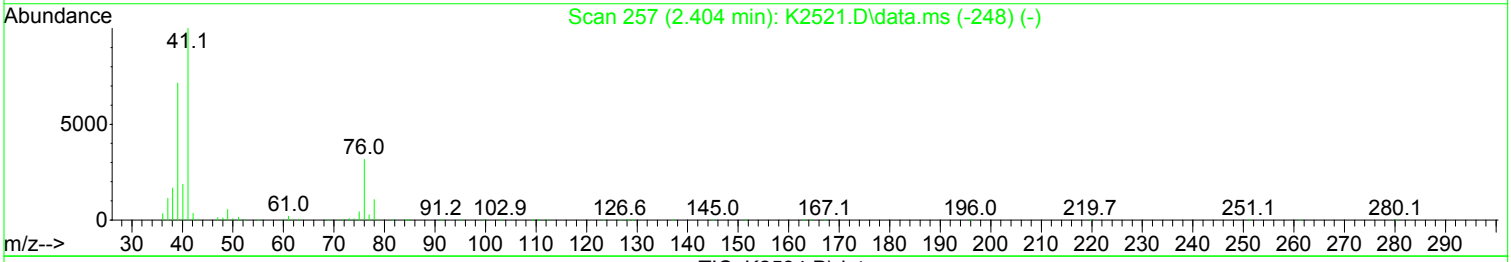
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060524\
Data File : K2534.D
Acq On : 05 Jun 2024 11:22 am
Operator : K.Ruest
Sample : ICV/LCS-50
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 11:37:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2534.D\data.ms

(20) Acetonitrile

2.404min (-0.000) 274.52 ug/L m

response 162086

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	18.80	19.30
39.10	71.30	71.59
0.00	0.00	0.00

Manual Integration:

After

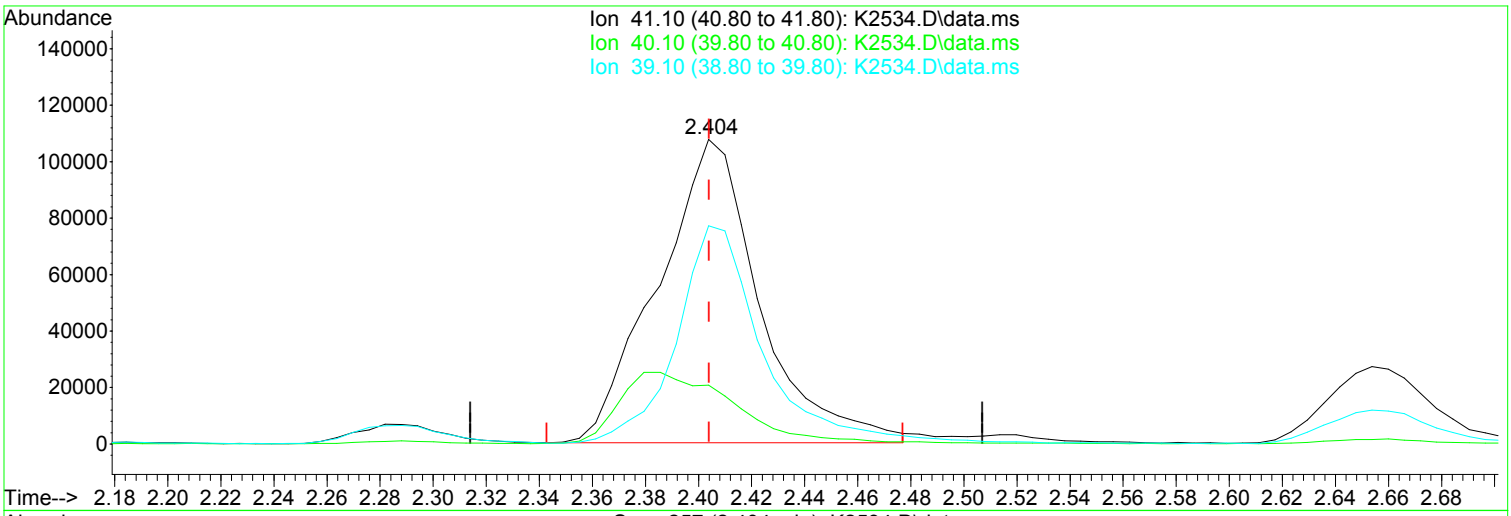
Poor integration.

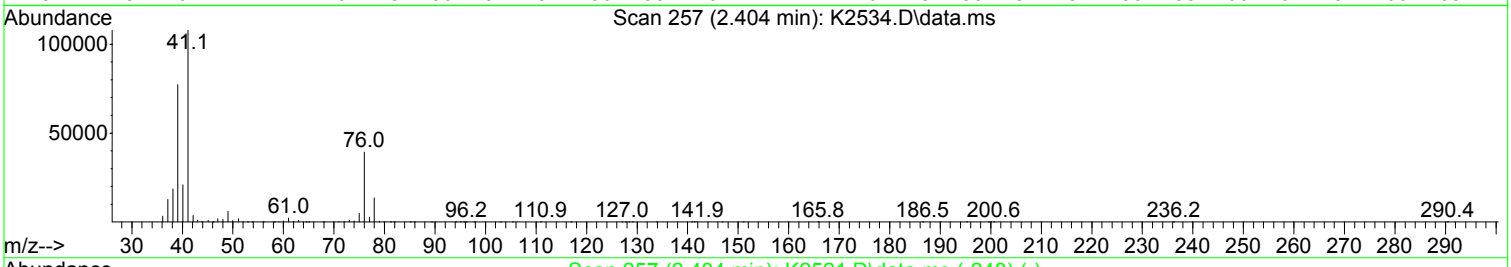
06/05/24

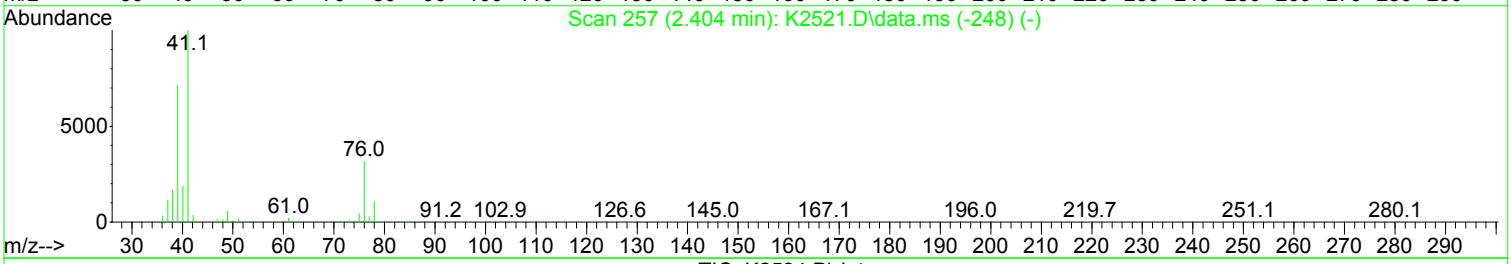
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060524\
Data File : K2534.D
Acq On : 05 Jun 2024 11:22 am
Operator : K.Ruest
Sample : ICV/LCS-50
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 11:37:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2534.D\data.ms

(20) Acetonitrile

2.404min (-0.000) 485.03 ug/L

response 286379

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	18.80	19.30
39.10	71.30	71.59
0.00	0.00	0.00

Manual Integration:

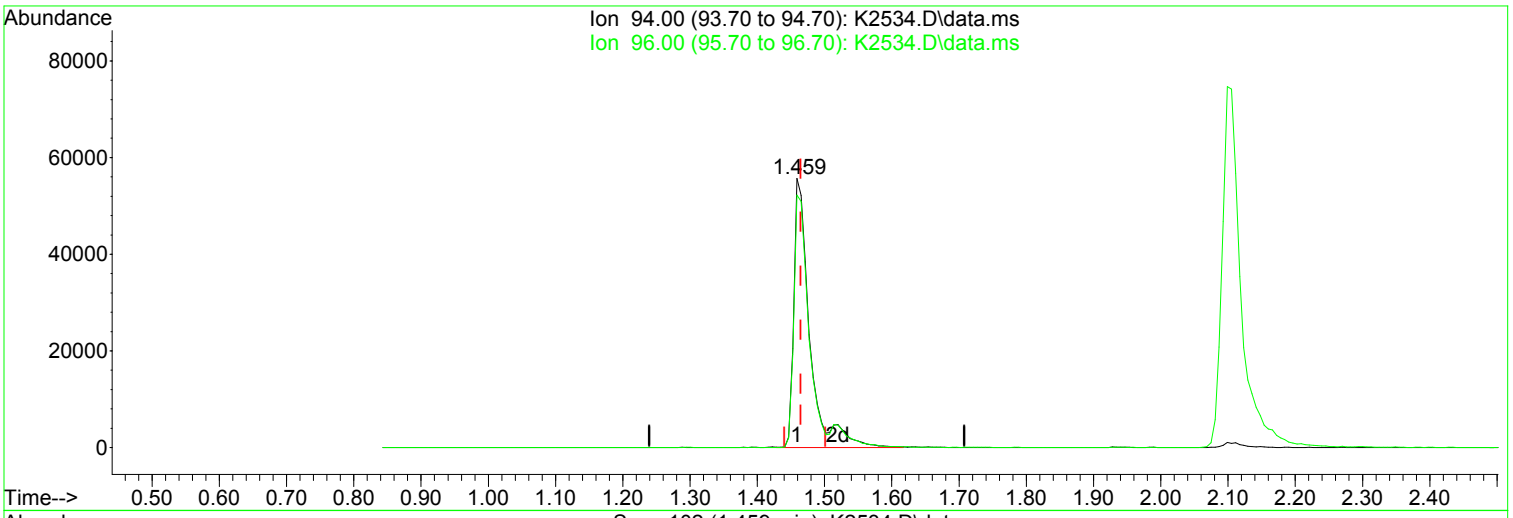
Before

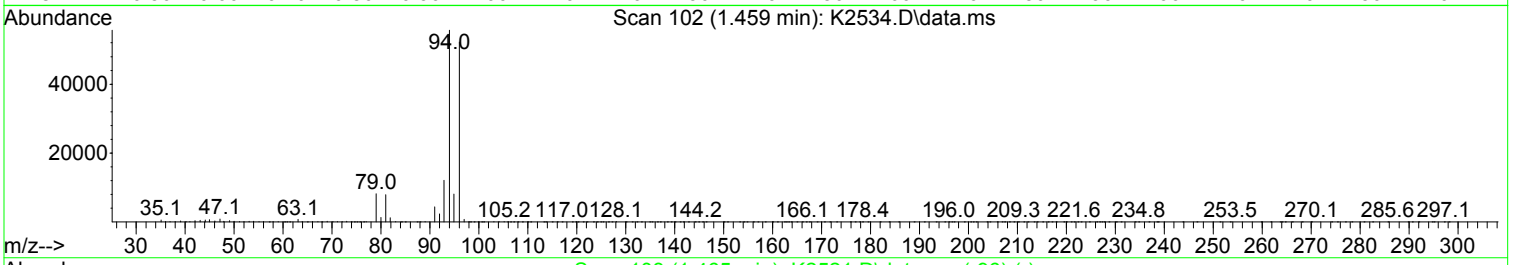
06/05/24

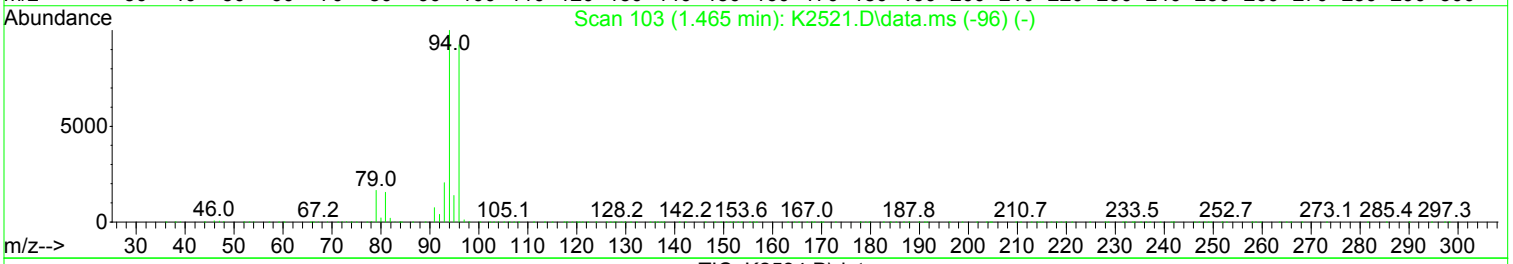
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060524\
Data File : K2534.D
Acq On : 05 Jun 2024 11:22 am
Operator : K.Ruest
Sample : ICV/LCS-50
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 11:37:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2534.D\data.ms

(6) Bromomethane (P)

1.459min (-0.006) 47.62 ug/L m

response 92357

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	92.50	93.81
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

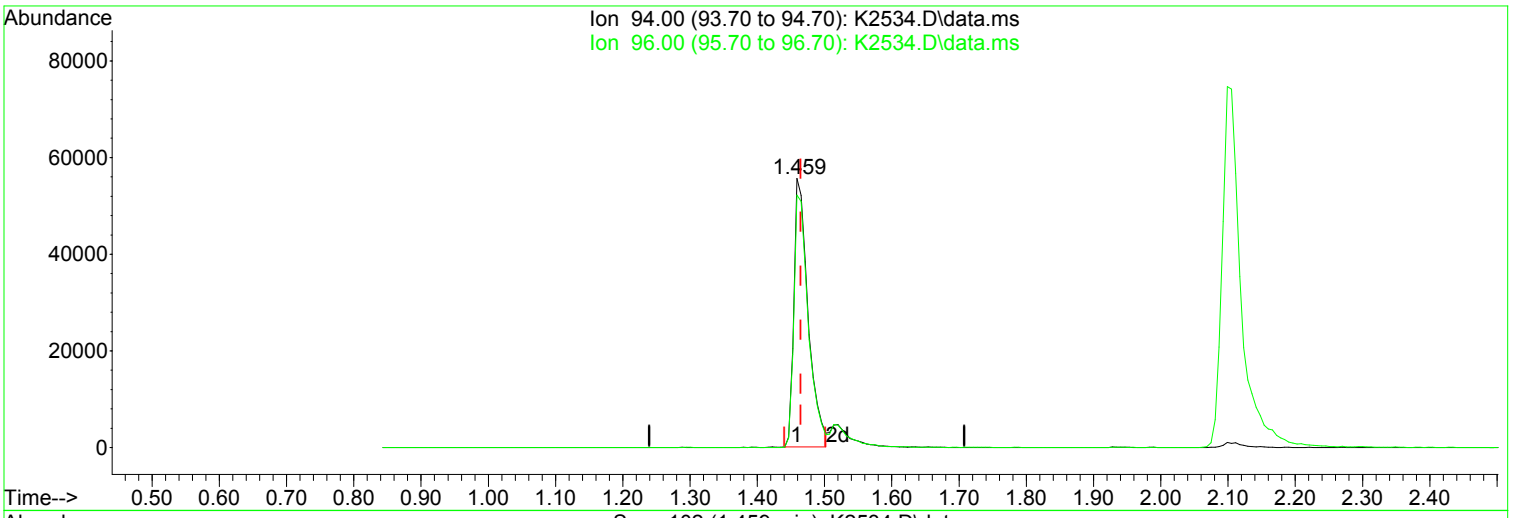
Split Peak.

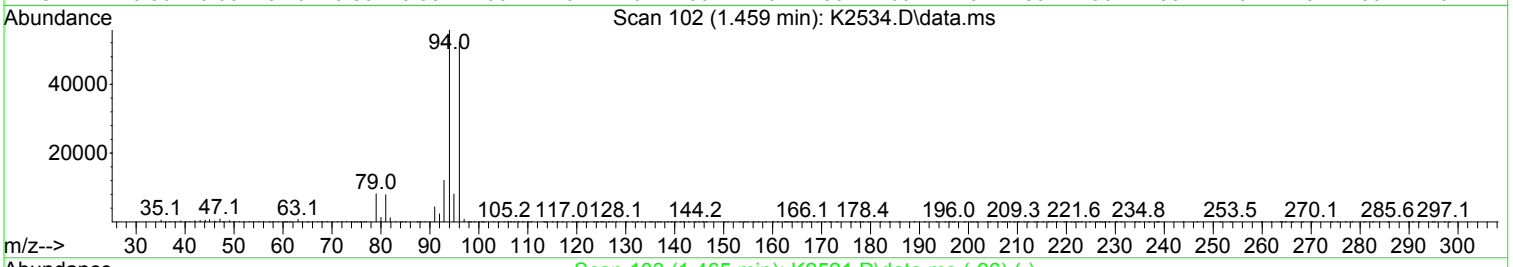
06/05/24

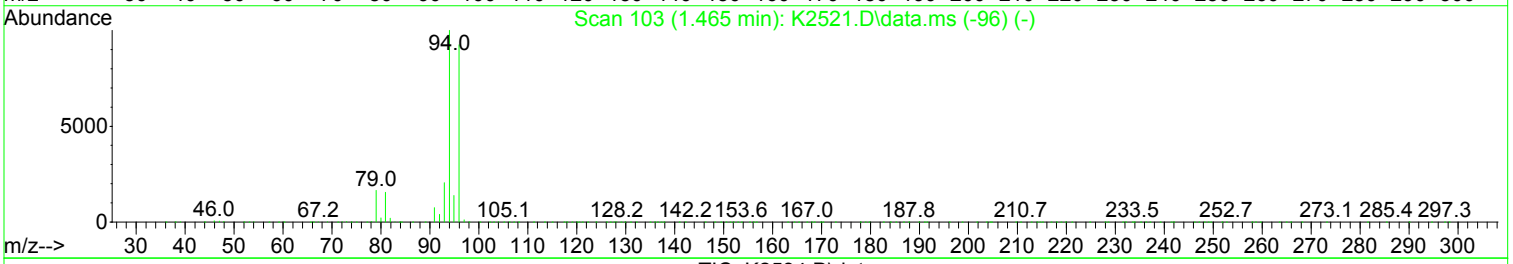
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060524\
Data File : K2534.D
Acq On : 05 Jun 2024 11:22 am
Operator : K.Ruest
Sample : ICV/LCS-50
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 11:37:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2534.D\data.ms

(6) Bromomethane (P)

1.459min (-0.006) 39.88 ug/L

response 81357

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	92.50	93.81
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

06/05/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060524\
Data File : K2534.D
Acq On : 05 Jun 2024 11:22 am
Operator : K.Ruest
Sample : ICV/LCS-50
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 11:37:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.989	168	387798	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.171	114	580989	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.573	117	520087	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	11.640	152	267198	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.830	113	201801	51.55	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 103.10%			
48) surr1,1,2-dichloroetha...	5.415	65	243588	51.35	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.70%			
65) SURR3,Toluene-d8	8.049	98	698168	51.47	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.94%			
70) SURR2,BFB	10.665	95	270093	52.97	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 105.94%			
Target Compounds						Qvalue
2) Chlorodifluoromethane	1.087	51	190108	58.223	ug/L	99
3) Dichlorodifluoromethane	1.075	85	262506	57.160	ug/L	99
4) Chloromethane	1.197	50	194529	48.565	ug/L	99
5) Vinyl Chloride	1.264	62	185715	47.786	ug/L	99
6) Bromomethane	1.459	94	92357m	47.616	ug/L	
7) Chloroethane	1.532	64	96543	38.584	ug/L	100
8) Freon 21	1.672	67	248247	44.922	ug/L	98
9) Trichlorofluoromethane	1.715	101	271166	51.082	ug/L	96
10) Diethyl Ether	1.928	59	139369	50.944	ug/L	98
11) Freon 123a	1.934	67	154377	47.572	ug/L	96
12) Freon 123	1.983	83	246124	58.642	ug/L	100
13) Acrolein	2.026	56	54628	135.036	ug/L	97
14) 1,1-Diclethene	2.099	96	146820	49.566	ug/L	98
15) Freon 113	2.105	101	154839	50.301	ug/L	92
16) Acetone	2.154	43	52276	51.987	ug/L	96
17) 2-Propanol	2.288	45	217509	977.049	ug/L	98
18) Iodomethane	2.227	142	103296m	43.419	ug/L	
19) Carbon Disulfide	2.276	76	368497	44.923	ug/L	100
20) Acetonitrile	2.404	41	162086m	274.520	ug/L	
21) Allyl Chloride	2.410	76	85080	55.791	ug/L	93
22) Methyl Acetate	2.434	43	110431	35.026	ug/L	100
23) Methylene Chloride	2.514	84	155895	49.393	ug/L	96
24) TBA	2.654	59	465546	1018.113	ug/L	99
25) Acrylonitrile	2.757	53	336150	246.888	ug/L	99
26) Methyl-t-Butyl Ether	2.794	73	488668	49.572	ug/L	99
27) trans-1,2-Dichloroethene	2.782	96	155221	49.634	ug/L	98
28) 1,1-Diclethane	3.239	63	292577	50.301	ug/L	99
29) Vinyl Acetate	3.330	86	28578	73.874	ug/L #	55
30) DIPE	3.355	45	363227	43.342	ug/L	92
31) 2-Chloro-1,3-Butadiene	3.355	53	232241	46.446	ug/L	100
32) ETBE	3.843	59	432395	40.650	ug/L	99
33) 2,2-Dichloropropane	4.007	77	259306	51.028	ug/L	98
34) cis-1,2-Dichloroethene	4.013	96	181234	50.916	ug/L	98
35) 2-Butanone	4.074	43	72416	50.058	ug/L	95
36) Propionitrile	4.154	54	139908	249.222	ug/L	95
37) Bromochloromethane	4.379	130	124149	51.436	ug/L	94
38) Methacrylonitrile	4.397	67	73960	49.727	ug/L	97
39) Tetrahydrofuran	4.477	42	46088	48.340	ug/L	95
40) Chloroform	4.550	83	288613	50.477	ug/L	99

1st 06/05/24
2nd 06/06/24

Data Path : I:\ACQUDATA\MSVOA17\Data\060524\
Data File : K2534.D
Acq On : 05 Jun 2024 11:22 am
Operator : K.Ruest
Sample : ICV/LCS-50
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 11:37:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-Trichloroethane	4.824	97	283559	52.211	ug/L	97
42) TAME	5.763	73	416156	44.867	ug/L	100
44) Cyclohexane	4.909	41	122581	50.289	ug/L	100
46) Carbontetrachloride	5.123	117	266573	48.853	ug/L	98
47) 1,1-Dichloropropene	5.141	75	193026	46.862	ug/L	100
49) Benzene	5.495	78	573884	51.094	ug/L	100
50) 1,2-Dichloroethane	5.544	62	259029	50.015	ug/L	98
51) Iso-Butyl Alcohol	5.562	43	144556	1056.550	ug/L	100
52) n-Heptane	6.025	43	168945	51.070	ug/L	99
53) 1-Butanol	6.586	56	270161	2638.531	ug/L	100
54) Trichloroethene	6.507	130	186614	51.139	ug/L	99
55) Methylcyclohexane	6.745	55	208837	50.731	ug/L	97
56) 1,2-Diclpropane	6.805	63	155638	48.526	ug/L	97
57) Dibromomethane	6.952	93	111658	50.898	ug/L	96
58) 1,4-Dioxane	7.031	88	48612	977.196	ug/L	99
59) Methyl Methacrylate	7.055	69	116389	52.967	ug/L	97
60) Bromodichloromethane	7.190	83	229717	51.916	ug/L	97
61) 2-Nitropropane	7.494	41	108512	106.566	ug/L	99
62) 2-Chloroethylvinyl Ether	7.622	63	105718	49.078	ug/L	100
63) cis-1,3-Dichloropropene	7.750	75	248505	53.327	ug/L	98
64) 4-Methyl-2-pentanone	7.976	43	152605	50.216	ug/L	97
66) Toluene	8.122	91	658429	51.033	ug/L	98
67) trans-1,3-Dichloropropene	8.409	75	238154	54.649	ug/L	99
68) Ethyl Methacrylate	8.561	69	218246	52.004	ug/L	98
69) 1,1,2-Trichloroethane	8.604	97	157928	51.113	ug/L	97
72) Tetrachloroethene	8.726	164	144125	50.517	ug/L	99
73) 2-Hexanone	8.909	43	108453	49.579	ug/L	99
74) 1,3-Dichloropropane	8.775	76	238688	48.895	ug/L	99
75) Dibromochloromethane	9.000	129	208082	53.547	ug/L	98
76) N-Butyl Acetate	9.073	43	227426	48.518	ug/L	99
77) 1,2-Dibromoethane	9.092	107	157508	50.683	ug/L	99
78) 3-Chlorobenzotrifluoride	9.634	180	241501	46.470	ug/L	98
79) Chlorobenzene	9.598	112	454705	49.060	ug/L	99
80) 4-Chlorobenzotrifluoride	9.689	180	219590	46.795	ug/L	98
81) 1,1,1,2-Tetrachloroethane	9.695	131	187762	50.618	ug/L	98
82) Ethylbenzene	9.726	106	245132	50.408	ug/L	96
83) (m+p)Xylene	9.842	106	604716	102.780	ug/L	99
84) o-Xylene	10.201	106	296205	50.624	ug/L	99
85) Styrene	10.220	104	508214	52.746	ug/L	99
86) Bromoform	10.366	173	136212	58.852	ug/L	97
87) 2-Chlorobenzotrifluoride	10.457	180	239247	48.000	ug/L	98
88) Isopropylbenzene	10.543	105	767064	50.578	ug/L	100
89) Cyclohexanone	10.610	55	352348	1047.171	ug/L	100
90) trans-1,4-Dichloro-2-B...	10.860	53	53179	43.676	ug/L	99
92) 1,1,2,2-Tetrachloroethane	10.811	83	198976	47.112	ug/L	100
93) Bromobenzene	10.780	156	203348	49.919	ug/L	99
94) 1,2,3-Trichloropropane	10.835	110	73822	47.545	ug/L	92
95) n-Propylbenzene	10.902	91	850229	49.745	ug/L	100
96) 2-Chlorotoluene	10.957	91	517673	49.145	ug/L	99
97) 3-Chlorotoluene	11.012	91	532299	46.767	ug/L	99
98) 4-Chlorotoluene	11.055	91	605189	49.606	ug/L	100
99) 1,3,5-Trimethylbenzene	11.055	105	673629	50.233	ug/L	99
100) tert-Butylbenzene	11.329	119	592731	50.357	ug/L	100
101) 1,2,4-Trimethylbenzene	11.366	105	670022	49.950	ug/L	100
102) 3,4-Dichlorobenzotrifl...	11.433	214	178725	47.412	ug/L	99
103) sec-Butylbenzene	11.512	105	823219	50.799	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060524\
Data File : K2534.D
Acq On : 05 Jun 2024 11:22 am
Operator : K.Ruest
Sample : ICV/LCS-50
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 11:37:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

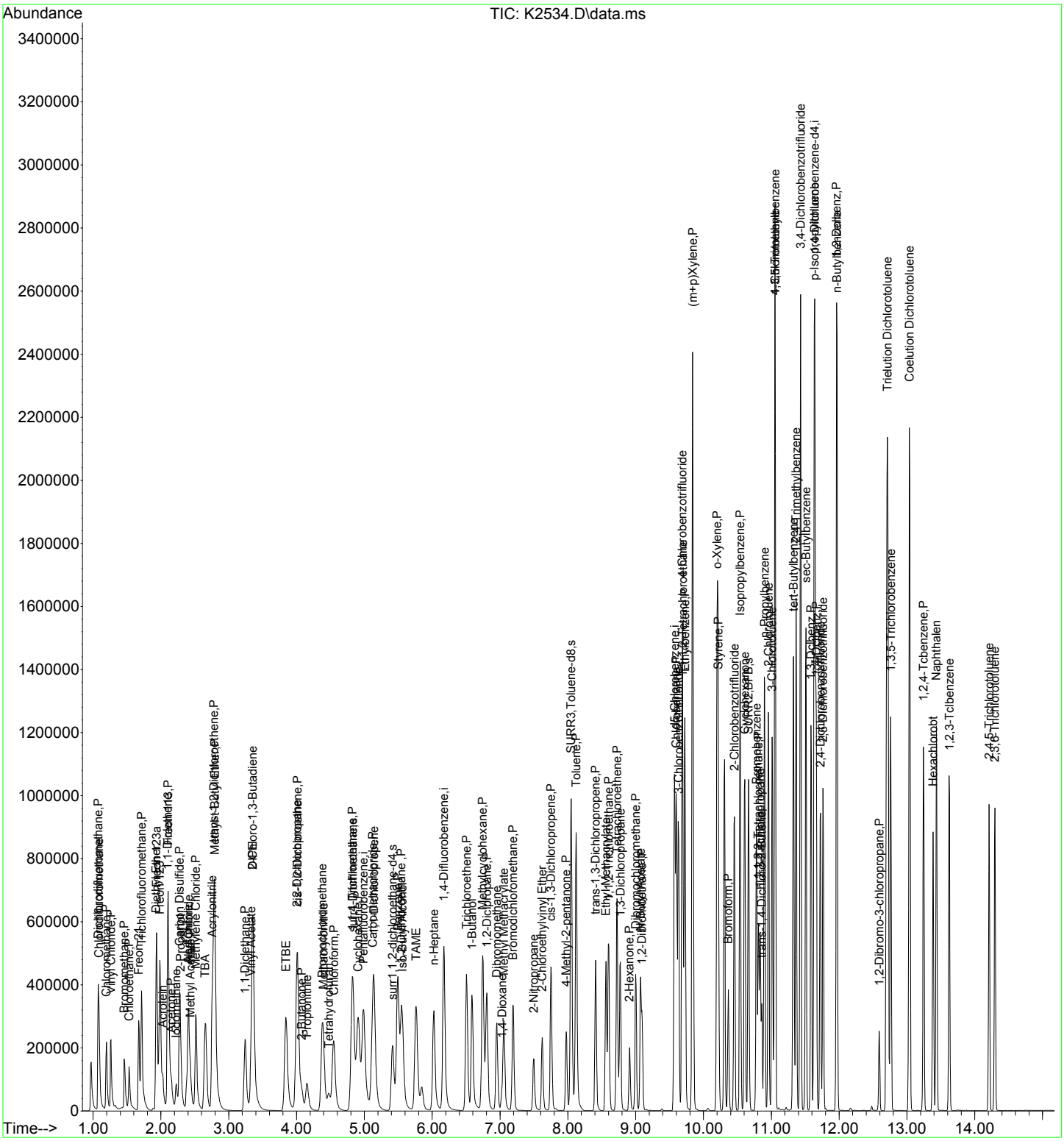
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) p-Isopropyltoluene	11.634	119	743990	52.453	ug/L	99
105) 1,3-Dclbenz	11.585	146	396354	50.297	ug/L	99
106) 1,4-Dclbenz	11.664	146	393128	49.123	ug/L	99
107) 2,4-Dichlorobenzotrifl...	11.725	214	165045	49.974	ug/L	97
108) 2,5-Dichlorobenzotrifl...	11.762	214	181334	49.059	ug/L	96
109) n-Butylbenzene	11.969	91	623870	52.448	ug/L	99
110) 1,2-Dclbenz	11.963	146	380925	49.614	ug/L	99
111) 1,2-Dibromo-3-chloropr...	12.591	157	53155	50.251	ug/L	93
112) Trielution Dichlorotol...	12.713	125	1060171	151.650	ug/L	98
113) 1,3,5-Trichlorobenzene	12.762	180	271828	50.178	ug/L	98
114) Coelution Dichlorotoluene	13.036	125	754882	101.819	ug/L	99
115) 1,2,4-Tcbenzene	13.243	180	260688	52.588	ug/L	96
116) Hexachlorobt	13.384	225	113649	52.277	ug/L	97
117) Naphthalen	13.432	128	763343	53.105	ug/L	100
118) 1,2,3-Tclbenzene	13.627	180	246496	52.570	ug/L	98
119) 2,4,5-Trichlorotoluene	14.213	159	198333	54.674	ug/L	99
120) 2,3,6-Trichlorotoluene	14.298	159	188008	60.522	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060524\
Data File : K2534.D
Acq On : 05 Jun 2024 11:22 am
Operator : K.Ruest
Sample : ICV/LCS-50
Misc :
ALS Vial : 1 Sample Multiplier: 1

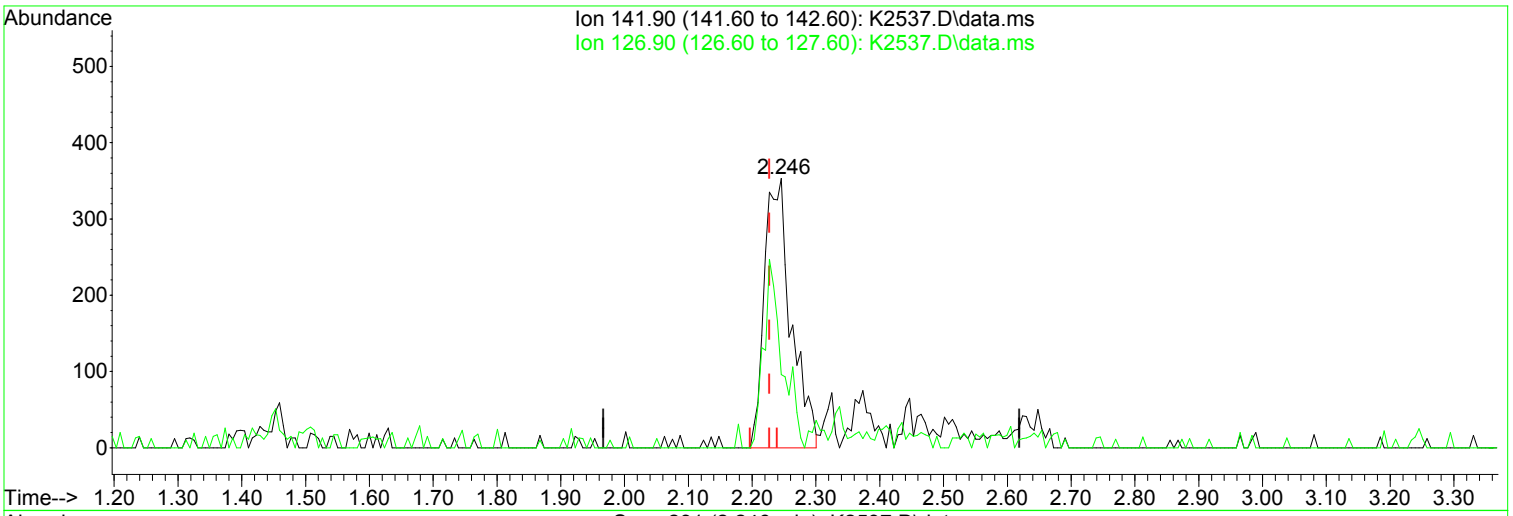
Quant Time: Jun 05 11:37:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

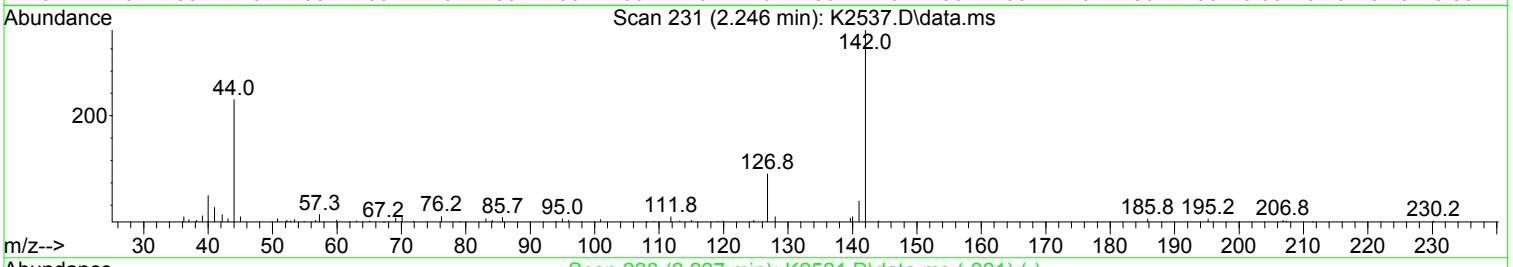


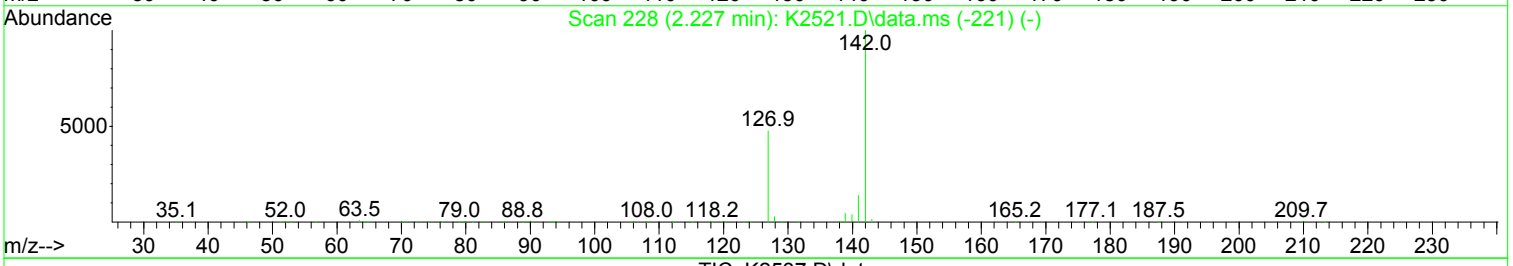
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060524\
Data File : K2537.D
Acq On : 05 Jun 2024 12:41 pm
Operator : K.Ruest
Sample : MBLK-FP
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 05 13:06:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2537.D\data.ms

(18) Iodomethane

2.246min (+ 0.018) 0.42 ug/L m

response 1024

Ion	Exp%	Act%
141.90	100.00	100.00
126.90	47.60	27.20#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

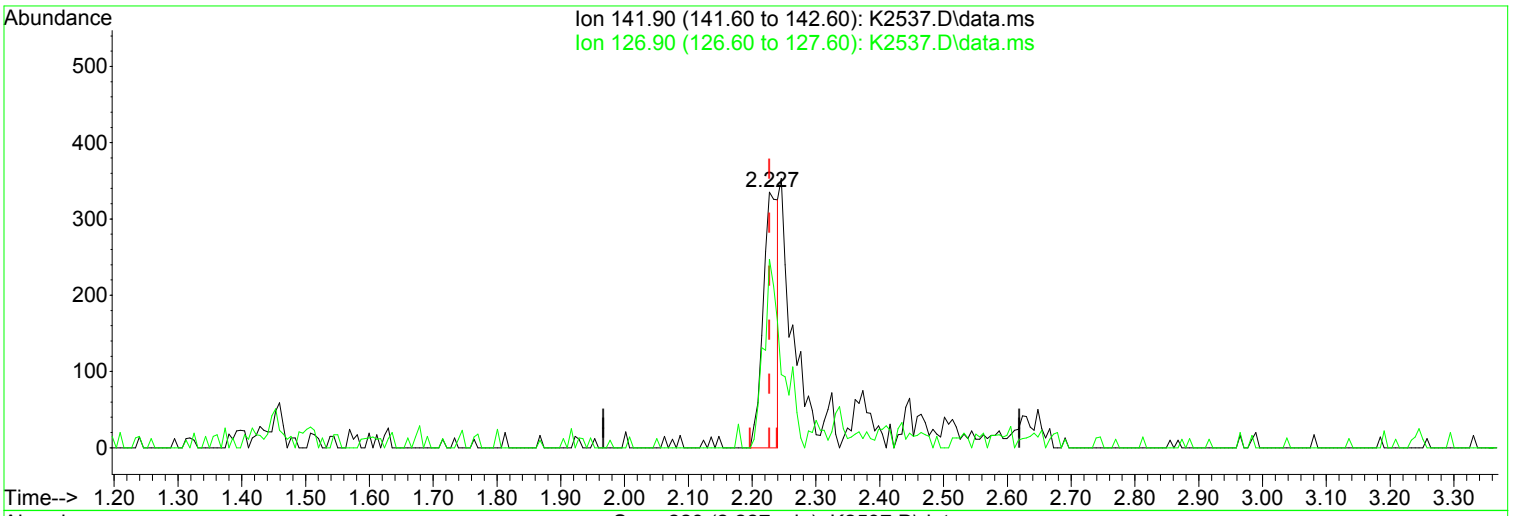
Split Peak.

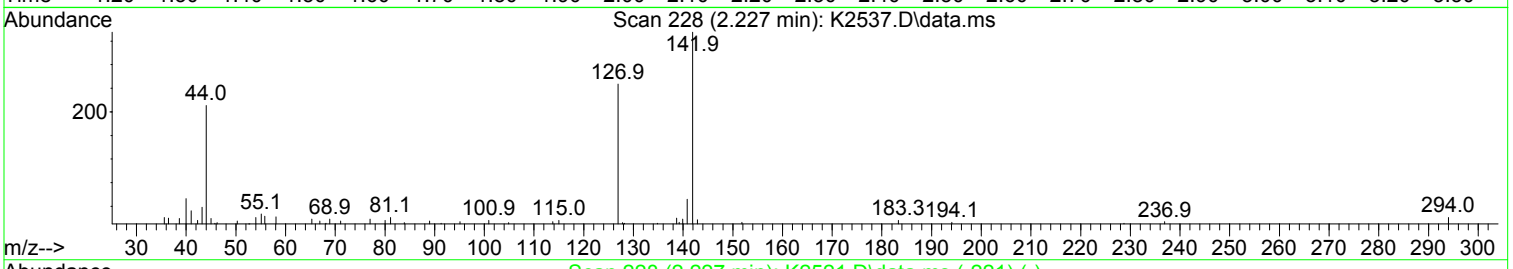
06/05/24

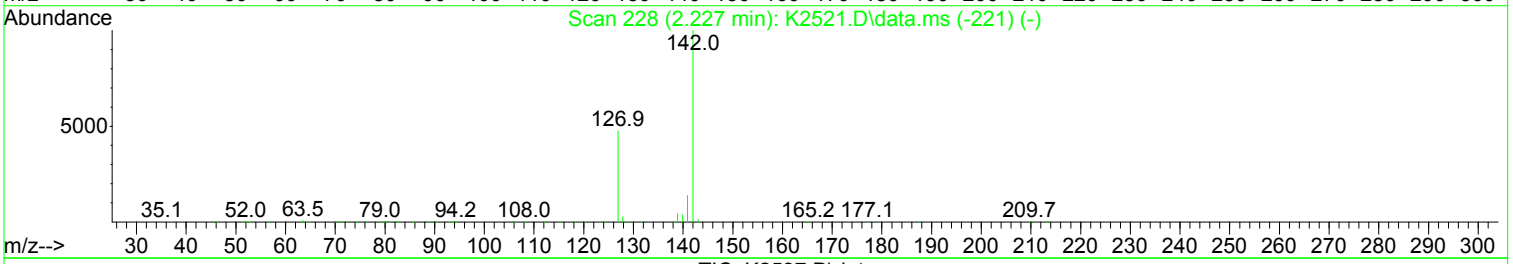
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060524\
Data File : K2537.D
Acq On : 05 Jun 2024 12:41 pm
Operator : K.Ruest
Sample : MBLK-FP
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 05 13:06:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2537.D\data.ms

(18) Iodomethane

2.227min (+ 0.000) 0.22 ug/L

response 541

Ion	Exp%	Act%
141.90	100.00	100.00
126.90	47.60	73.73#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

06/05/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060524\
Data File : K2537.D
Acq On : 05 Jun 2024 12:41 pm
Operator : K.Ruest
Sample : MBLK-FP
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 05 13:06:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

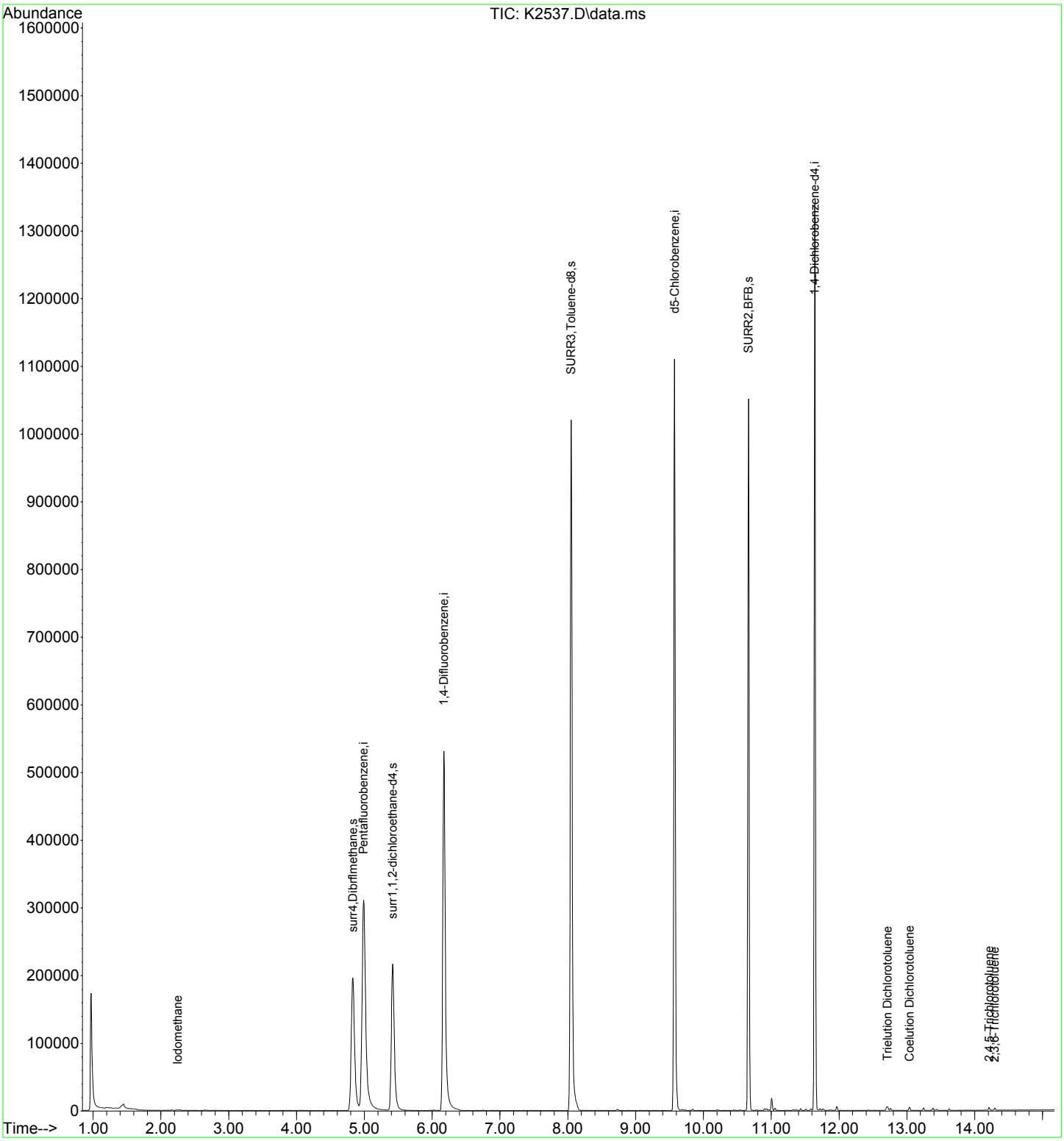
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.989	168	398405	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.172	114	607076	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.574	117	538968	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	11.640	152	264389	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.830	113	207000	50.61	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 101.22%			
48) surr1,1,2-dichloroetha...	5.416	65	248974	50.23	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.46%			
65) SURR3,Toluene-d8	8.049	98	730153	51.51	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 103.02%			
70) SURR2,BFB	10.665	95	272469	51.14	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.28%			
Target Compounds						Qvalue
16) Acetone	2.160	43	1277	Below Cal		99
18) Iodomethane	2.246	142	1024m	0.419	ug/L	
112) Trielution Dichlorotol...	12.713	125	3146	0.455	ug/L	89
114) Coelution Dichlorotoluene	13.036	125	1916	0.261	ug/L	89
119) 2,4,5-Trichlorotoluene	14.213	159	1056	0.294	ug/L	84
120) 2,3,6-Trichlorotoluene	14.292	159	785	0.255	ug/L	90

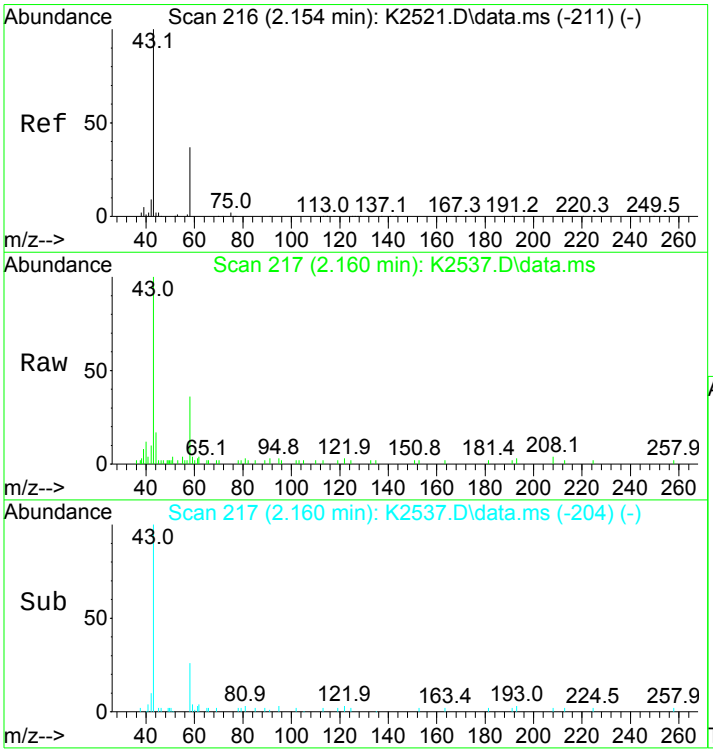
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060524\
Data File : K2537.D
Acq On : 05 Jun 2024 12:41 pm
Operator : K.Ruest
Sample : MBLK-FP
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 05 13:06:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

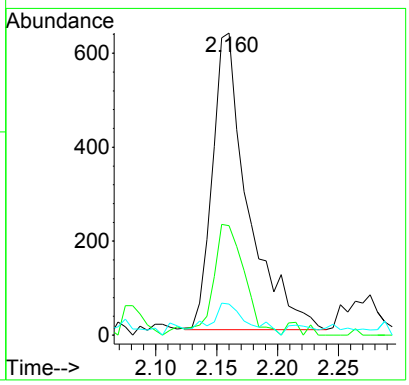


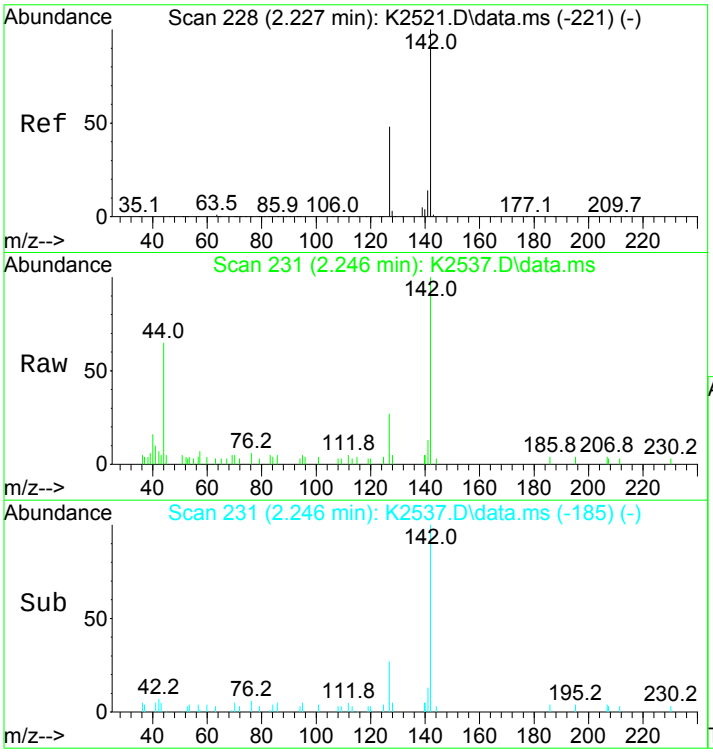


#16
Acetone
Concen: Below Cal
RT: 2.160 min Scan# 217
Delta R.T. 0.006 min
Lab File: K2537.D
Acq: 05 Jun 2024 12:41 pm

Tgt Ion: 43 Resp: 1277

Ion	Ratio	Lower	Upper
43	100		
58	36.2	16.2	56.2
42	10.3	0.0	28.5

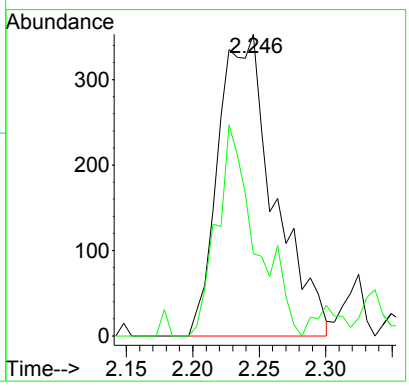


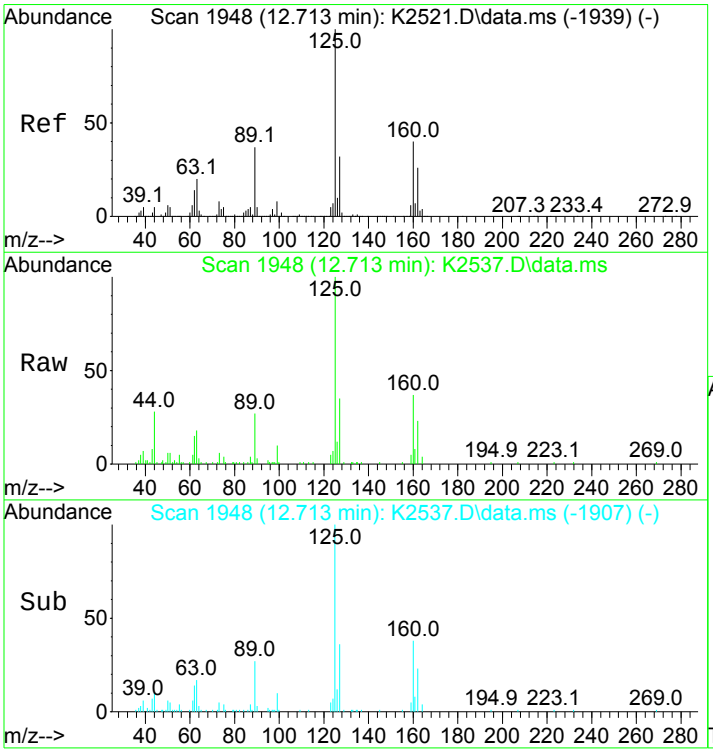


#18
Iodomethane
Concen: 0.42 ug/L m
RT: 2.246 min Scan# 231
Delta R.T. 0.018 min
Lab File: K2537.D
Acq: 05 Jun 2024 12:41 pm

Tgt Ion:142 Resp: 1024

Ion	Ratio	Lower	Upper
142	100		
127	27.2	27.6	67.6#

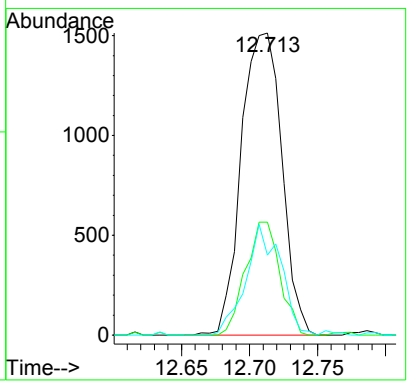


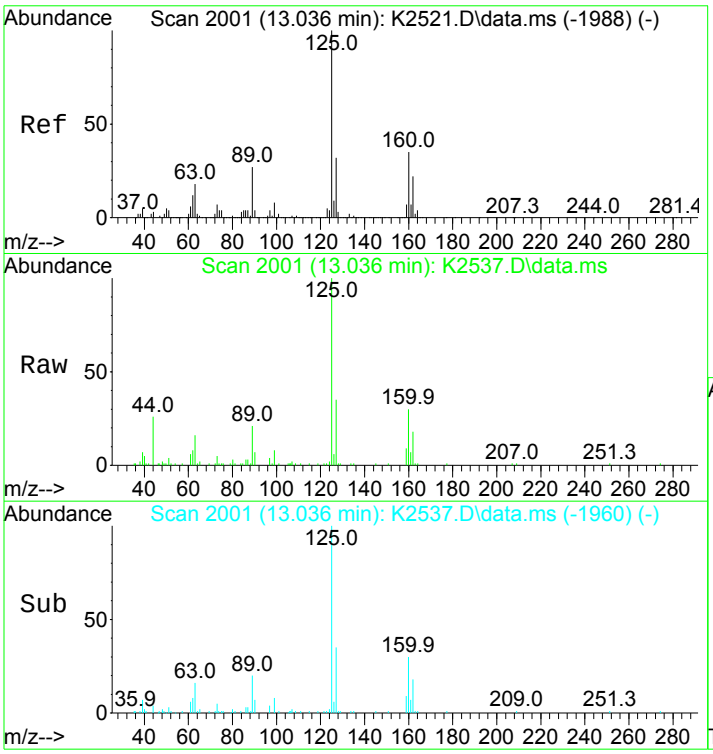


#112
Trielution Dichlorotoluene
Concen: 0.45 ug/L
RT: 12.713 min Scan# 1948
Delta R.T. 0.000 min
Lab File: K2537.D
Acq: 05 Jun 2024 12:41 pm

Tgt Ion:125 Resp: 3146

Ion	Ratio	Lower	Upper
125	100		
160	37.3	20.4	60.4
89	26.5	16.8	56.8

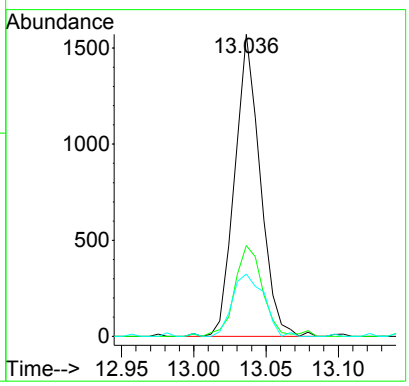


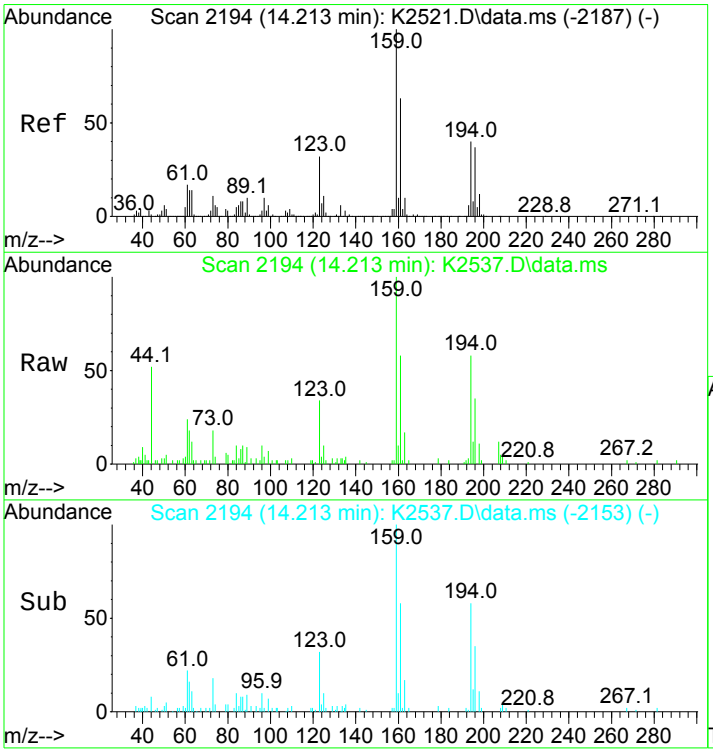


#114
Coelution Dichlorotoluene
Concen: 0.26 ug/L
RT: 13.036 min Scan# 2001
Delta R.T. 0.000 min
Lab File: K2537.D
Acq: 05 Jun 2024 12:41 pm

Tgt Ion:125 Resp: 1916

Ion	Ratio	Lower	Upper
125	100		
160	30.1	15.2	55.2
89	20.6	7.4	47.4

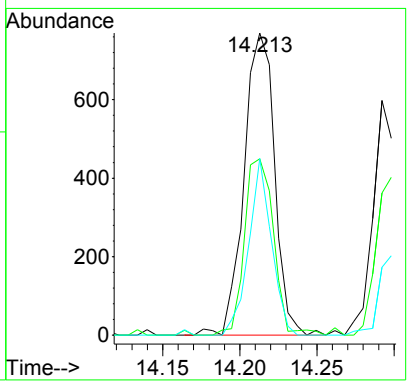


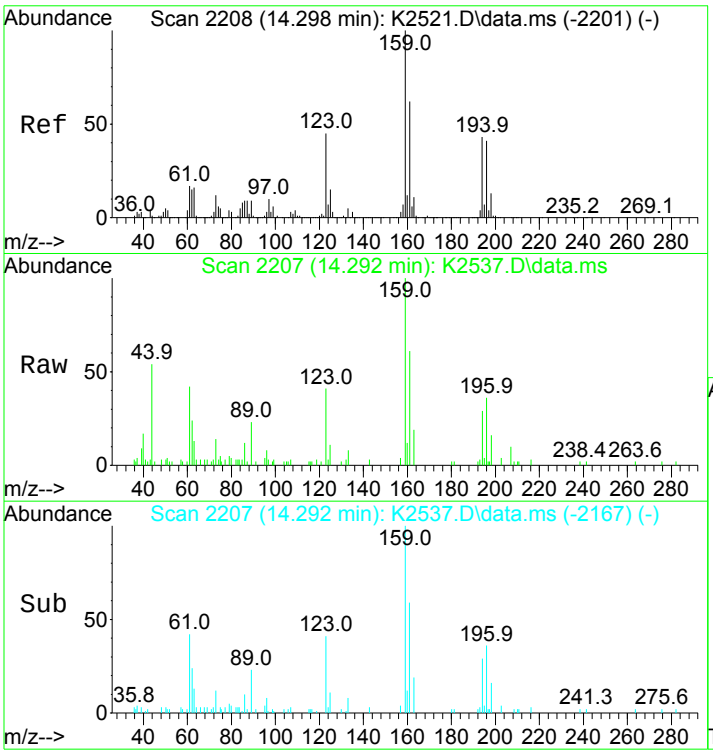


#119
2,4,5-Trichlorotoluene
Concen: 0.29 ug/L
RT: 14.213 min Scan# 2194
Delta R.T. 0.000 min
Lab File: K2537.D
Acq: 05 Jun 2024 12:41 pm

Tgt Ion:159 Resp: 1056

Ion	Ratio	Lower	Upper
159	100		
161	58.3	43.0	83.0
194	58.4	19.6	59.6

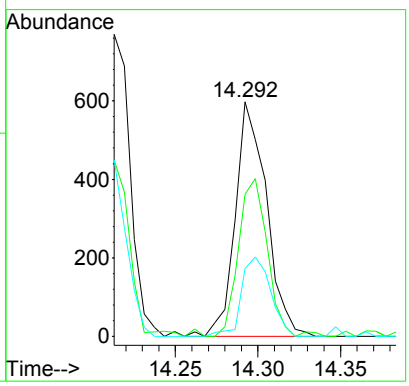




#120
2,3,6-Trichlorotoluene
Concen: 0.26 ug/L
RT: 14.292 min Scan# 2207
Delta R.T. -0.006 min
Lab File: K2537.D
Acq: 05 Jun 2024 12:41 pm

Tgt Ion:159 Resp: 785

Ion	Ratio	Lower	Upper
159	100		
161	60.5	42.1	82.1
194	28.9	23.4	63.4



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2524.D
Acq On : 04 Jun 2024 06:10 pm
Operator : K.Ruest
Sample : 200ppb
Misc : 8260/624 ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 09:54:37 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.989	168	370566	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.172	114	549835	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.573	117	493482	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	11.646	152	249096	50.00	ug/L	#	0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.830	113	189280	51.09	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 102.18%				
48) surr1,1,2-dichloroetha...	5.422	65	229711	51.17	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.34%				
65) SURR3,Toluene-d8	8.049	98	661001	51.49	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.98%				
70) SURR2,BFB	10.665	95	261550	54.20	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 108.40%				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.087	51	622772	203.623	ug/L		97
3) Dichlorodifluoromethane	1.075	85	928823	211.653	ug/L		99
4) Chloromethane	1.197	50	674827	162.606	ug/L		100
5) Vinyl Chloride	1.258	62	744723	200.534	ug/L		98
6) Bromomethane	1.459	94	228966m	118.506	ug/L		
7) Chloroethane	1.526	64	459165	208.359	ug/L		100
8) Freon 21	1.672	67	1018884	192.949	ug/L		99
9) Trichlorofluoromethane	1.709	101	1026626	202.389	ug/L		98
10) Diethyl Ether	1.929	59	511709	195.745	ug/L		92
11) Freon 123a	1.935	67	565445	182.346	ug/L		94
12) Freon 123	1.983	83	764324	195.291	ug/L		95
13) Acrolein	2.026	56	353430	920.666	ug/L		100
14) 1,1-Diclethene	2.099	96	538407	190.218	ug/L		93
15) Freon 113	2.105	101	577166	196.894	ug/L		99
16) Acetone	2.154	43	202542	191.804	ug/L		96
17) 2-Propanol	2.307	45	955912	4510.856	ug/L		100
18) Iodomethane	2.221	142	831696	365.850	ug/L		90
19) Carbon Disulfide	2.276	76	1473469	187.982	ug/L		100
20) Acetonitrile	2.404	41	603302m	591.013	ug/L		
21) Allyl Chloride	2.404	76	290207	199.152	ug/L	#	63
22) Methyl Acetate	2.435	43	613236	204.435	ug/L		94
23) Methylene Chloride	2.514	84	553238	183.437	ug/L		91
24) TBA	2.678	59	1986959	4547.391	ug/L		97
25) Acrylonitrile	2.764	53	1322576	1016.546	ug/L		99
26) Methyl-t-Butyl Ether	2.794	73	1811183	192.275	ug/L		96
27) trans-1,2-Dichloroethene	2.782	96	574607	192.281	ug/L		92
28) 1,1-Diclethane	3.245	63	1071853	192.847	ug/L		100
29) Vinyl Acetate	3.331	86	85768	227.024	ug/L	#	63
30) DIPE	3.361	45	1567316	197.545	ug/L		96
31) 2-Chloro-1,3-Butadiene	3.355	53	938640	199.454	ug/L		91
32) ETBE	3.849	59	2023016	200.337	ug/L		97
33) 2,2-Dichloropropane	4.007	77	974801	221.318	ug/L		99
34) cis-1,2-Dichloroethene	4.020	96	654308	206.706	ug/L		91
35) 2-Butanone	4.074	43	298200	215.718	ug/L		93
36) Propionitrile	4.166	54	573165	1068.473	ug/L		97
37) Bromochloromethane	4.379	130	455535	214.354	ug/L		95
38) Methacrylonitrile	4.404	67	292255	205.637	ug/L		87
39) Tetrahydrofuran	4.471	42	192134	210.894	ug/L		88
40) Chloroform	4.550	83	1061092	194.787	ug/L		99

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2524.D
Acq On : 04 Jun 2024 06:10 pm
Operator : K.Ruest
Sample : 200ppb
Misc : 8260/624 ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 09:54:37 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 1,1,1-Trichloroethane	4.830	97	1061154	204.473	ug/L		98
42) TAME	5.763	73	1765974	199.248	ug/L		93
44) Cyclohexane	4.910	41	471809	204.528	ug/L		99
46) Carbontetrachloride	5.129	117	994977	194.794	ug/L		99
47) 1,1-Dichloropropene	5.147	75	731515	187.656	ug/L		99
49) Benzene	5.495	78	2083214	196.454	ug/L		94
50) 1,2-Dichloroethane	5.550	62	964021	196.684	ug/L		98
51) Iso-Butyl Alcohol	5.580	43	624191	4820.667	ug/L		99
52) n-Heptane	6.025	43	650839	207.887	ug/L		91
53) 1-Butanol	6.605	56	1233915	13192.298	ug/L		97
54) Trichloroethene	6.507	130	698855	202.363	ug/L		98
55) Methylcyclohexane	6.751	55	796989	204.575	ug/L		91
56) 1,2-Diclpropane	6.806	63	588889	195.203	ug/L		98
57) Dibromomethane	6.952	93	412901	198.880	ug/L		98
58) 1,4-Dioxane	7.037	88	205387	4362.611	ug/L		92
59) Methyl Methacrylate	7.062	69	464559	223.392	ug/L		85
60) Bromodichloromethane	7.196	83	865223	206.619	ug/L		98
61) 2-Nitropropane	7.501	41	444641	461.407	ug/L		97
62) 2-Chloroethylvinyl Ether	7.623	63	430926	211.386	ug/L		98
63) cis-1,3-Dichloropropene	7.757	75	926832	210.159	ug/L		99
64) 4-Methyl-2-pentanone	7.982	43	637704	221.731	ug/L		99
66) Toluene	8.123	91	2389709	195.716	ug/L		99
67) trans-1,3-Dichloropropene	8.415	75	906140	219.714	ug/L		99
68) Ethyl Methacrylate	8.568	69	876692	221.132	ug/L		90
69) 1,1,2-Trichloroethane	8.604	97	593803	203.074	ug/L		99
72) Tetrachloroethene	8.726	164	548553	202.640	ug/L		99
73) 2-Hexanone	8.915	43	459622	221.443	ug/L		99
74) 1,3-Dichloropropane	8.775	76	906750	195.759	ug/L		92
75) Dibromochloromethane	9.007	129	815977	218.494	ug/L		100
76) N-Butyl Acetate	9.074	43	989276	222.423	ug/L		98
77) 1,2-Dibromoethane	9.098	107	616588	209.104	ug/L		99
78) 3-Chlorobenzotrifluoride	9.634	180	993488	201.475	ug/L		96
79) Chlorobenzene	9.604	112	1668596	189.739	ug/L		98
80) 4-Chlorobenzotrifluoride	9.689	180	890537	200.006	ug/L		99
81) 1,1,1,2-Tetrachloroethane	9.695	131	718431	204.120	ug/L		96
82) Ethylbenzene	9.726	106	902244	195.535	ug/L		93
83) (m+p)Xylene	9.842	106	2138117	382.994	ug/L		97
84) o-Xylene	10.201	106	1087650	195.909	ug/L		99
85) Styrene	10.220	104	1845123	201.824	ug/L		99
86) Bromoform	10.366	173	531599	242.068	ug/L		99
87) 2-Chlorobenzotrifluoride	10.457	180	957743	202.509	ug/L		99
88) Isopropylbenzene	10.543	105	2835338	197.032	ug/L		99
89) Cyclohexanone	10.610	55	1428505	4474.373	ug/L		100
90) trans-1,4-Dichloro-2-B...	10.866	53	267932	231.919	ug/L		93
92) 1,1,2,2-Tetrachloroethane	10.811	83	808850	205.433	ug/L		99
93) Bromobenzene	10.787	156	767595	202.128	ug/L		96
94) 1,2,3-Trichloropropane	10.842	110	290425	200.640	ug/L	#	89
95) n-Propylbenzene	10.903	91	3157907	198.190	ug/L		97
96) 2-Chlorotoluene	10.964	91	1950881	198.663	ug/L		94
97) 3-Chlorotoluene	11.018	91	2077796	195.820	ug/L		95
98) 4-Chlorotoluene	11.055	91	2216122	194.851	ug/L		99
99) 1,3,5-Trimethylbenzene	11.055	105	2426429	194.091	ug/L		97
100) tert-Butylbenzene	11.329	119	2142682	195.266	ug/L		99
101) 1,2,4-Trimethylbenzene	11.372	105	2503255	200.179	ug/L		97
102) 3,4-Dichlorobenzotrifl...	11.439	214	722120	205.484	ug/L		95
103) sec-Butylbenzene	11.512	105	2910466	192.649	ug/L		97

1st 06/05/24
2nd 06/06/24

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2524.D
Acq On : 04 Jun 2024 06:10 pm
Operator : K.Ruest
Sample : 200ppb
Misc : 8260/624 ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 09:54:37 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

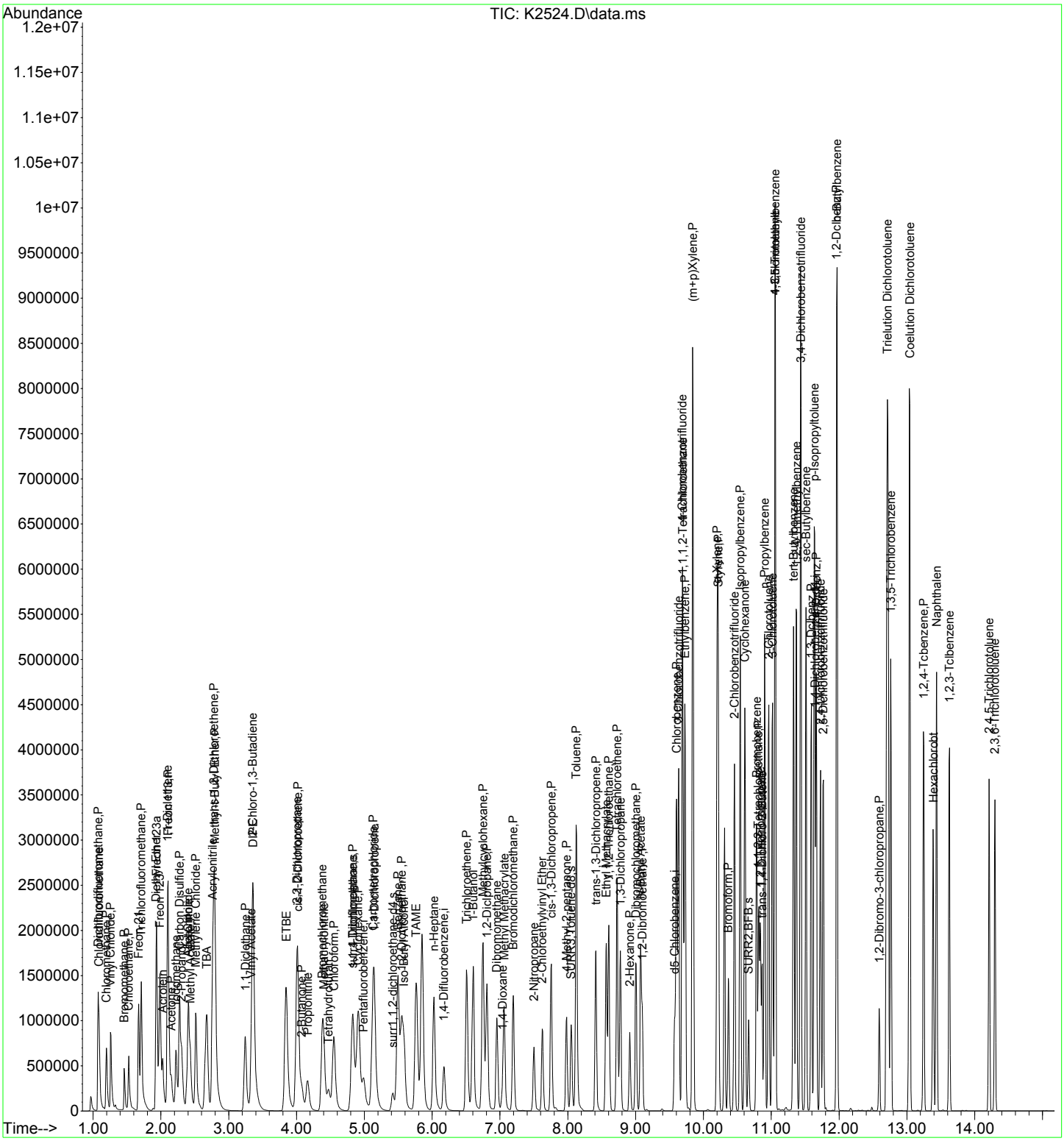
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) p-Isopropyltoluene	11.634	119	2645037	200.032	ug/L	98
105) 1,3-Dclbenz	11.591	146	1472978	200.505	ug/L	98
106) 1,4-Dclbenz	11.665	146	1465021	196.365	ug/L	99
107) 2,4-Dichlorobenzotrifl...	11.726	214	635365	206.364	ug/L	98
108) 2,5-Dichlorobenzotrifl...	11.768	214	718869	208.618	ug/L	99
109) n-Butylbenzene	11.969	91	2208993	199.201	ug/L	97
110) 1,2-Dclbenz	11.963	146	1419750	198.356	ug/L	99
111) 1,2-Dibromo-3-chloropr...	12.591	157	243098	246.519	ug/L	99
112) Trielution Dichlorotol...	12.713	125	3942392	604.911	ug/L	99
113) 1,3,5-Trichlorobenzene	12.762	180	1045342	206.986	ug/L	99
114) Coelution Dichlorotoluene	13.042	125	2802273	405.441	ug/L	95
115) 1,2,4-Tcbenzene	13.250	180	1001673	216.749	ug/L	99
116) Hexachlorobt	13.390	225	425329	209.865	ug/L	99
117) Naphthalen	13.439	128	2972310	221.809	ug/L	98
118) 1,2,3-Tclbenzene	13.628	180	951163	217.595	ug/L	100
119) 2,4,5-Trichlorotoluene	14.213	159	763556	225.785	ug/L	99
120) 2,3,6-Trichlorotoluene	14.298	159	654324	225.942	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2524.D
Acq On : 04 Jun 2024 06:10 pm
Operator : K.Ruest
Sample : 200ppb
Misc : 8260/624 ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 09:54:37 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

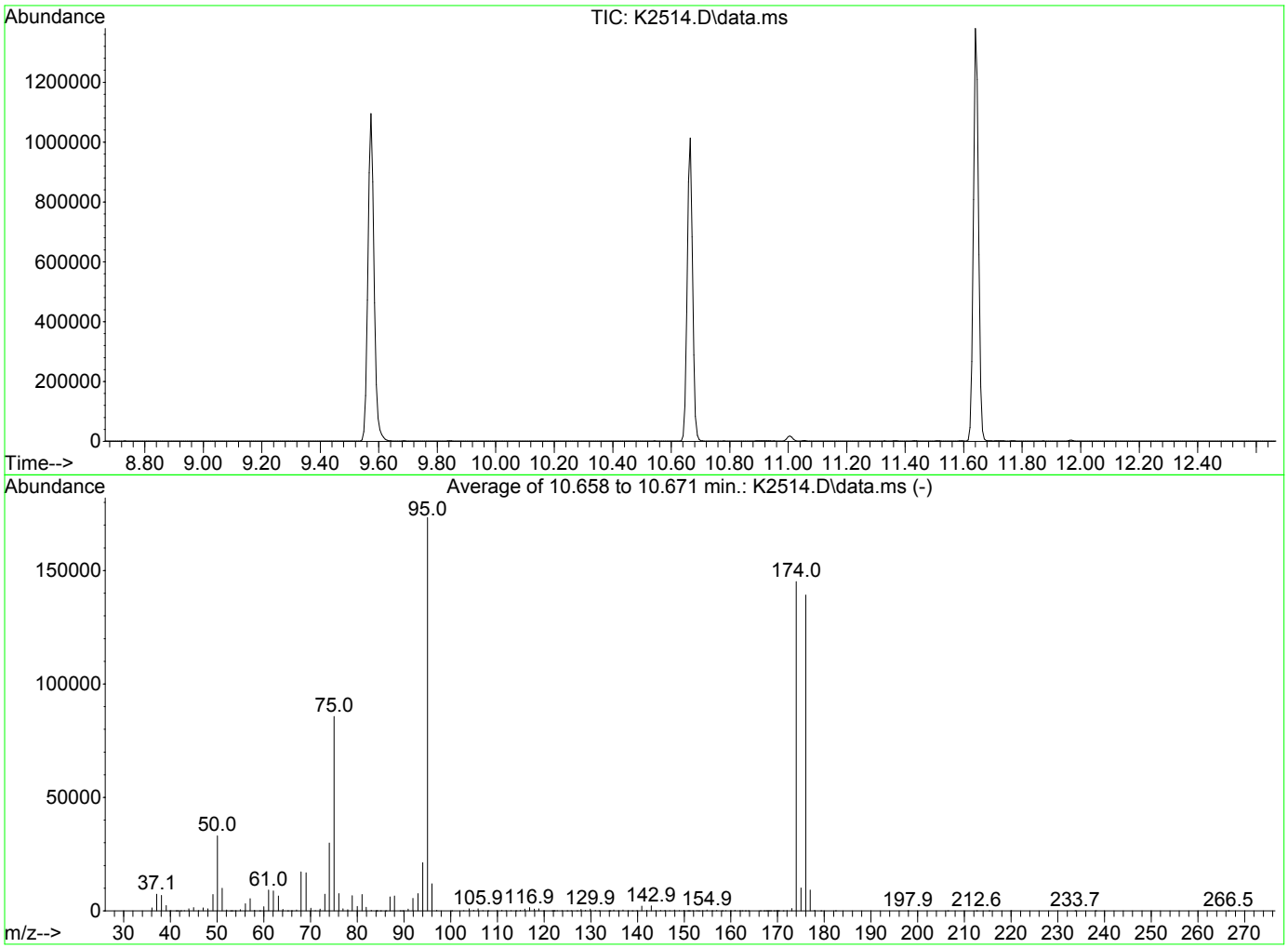


1st 06/05/24
2nd 06/06/24

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2514.D
Acq On : 04 Jun 2024 01:40 pm
Operator : K.Ruest
Sample : TUNE
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Title : MS#17 - 8260 WATERS 5mL Purge
Last Update : Tue May 07 10:29:35 2024



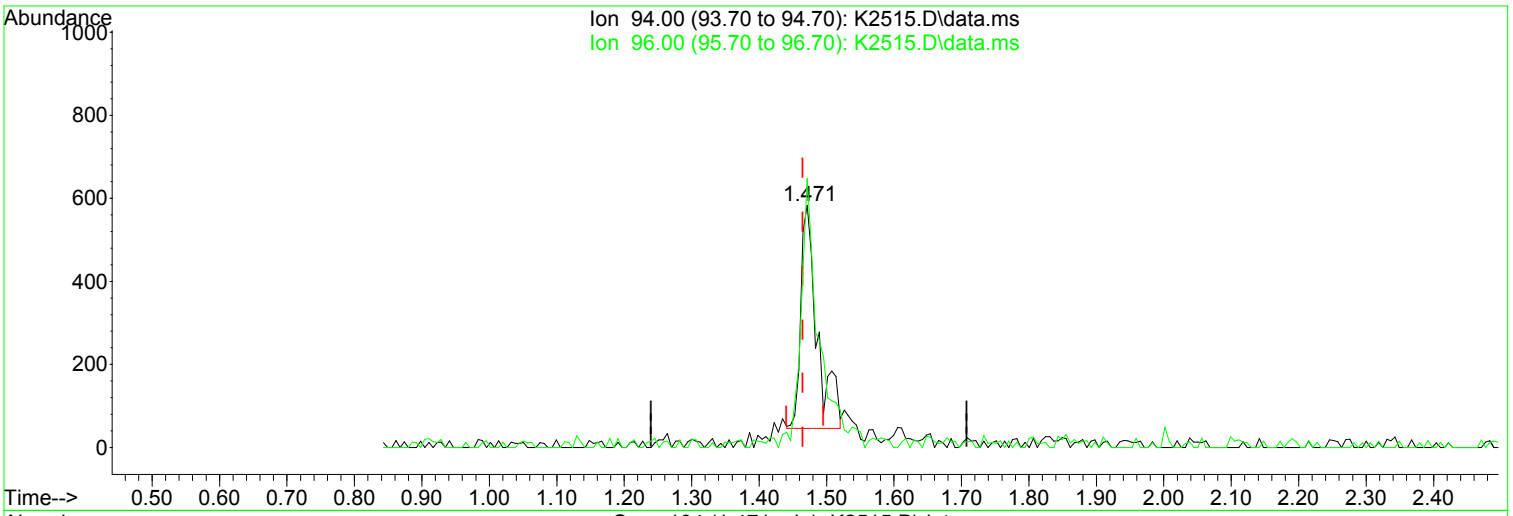
AutoFind: Scans 1611, 1612, 1613; Background Corrected with Scan 1605

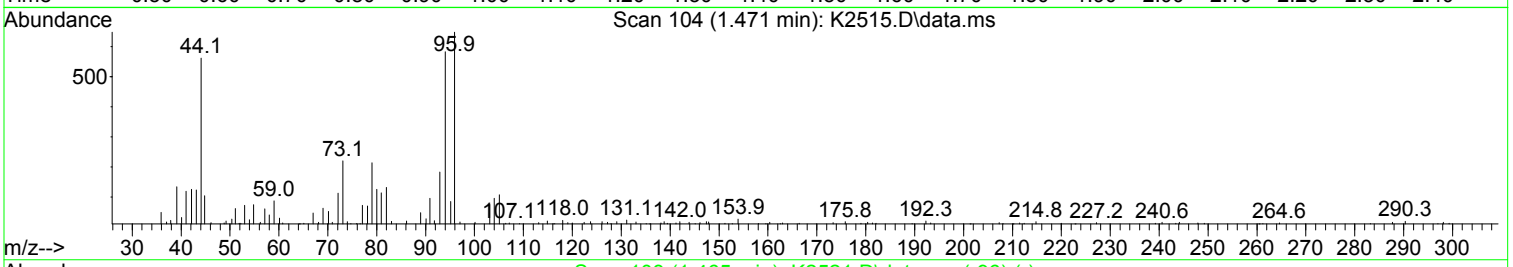
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.1	33091	PASS
75	95	30	80	49.4	85669	PASS
95	95	100	100	100.0	173339	PASS
96	95	5	9	6.9	11881	PASS
173	174	0.00	2	0.8	1097	PASS
174	95	50	120	83.7	145109	PASS
175	174	5	9	7.0	10170	PASS
176	174	95	101	96.0	139248	PASS
177	176	5	9	6.6	9155	PASS

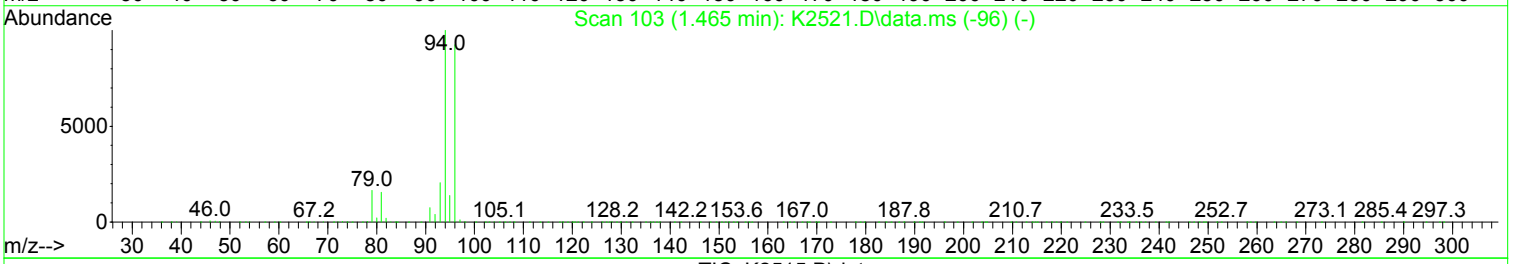
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2515.D
Acq On : 04 Jun 2024 02:44 pm
Operator : K.Ruest
Sample : IBLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 13:04:05 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2515.D\data.ms

(6) Bromomethane (P)

1.471min (+ 0.006) 0.22 ug/L m

response 909

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	92.50	111.15
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

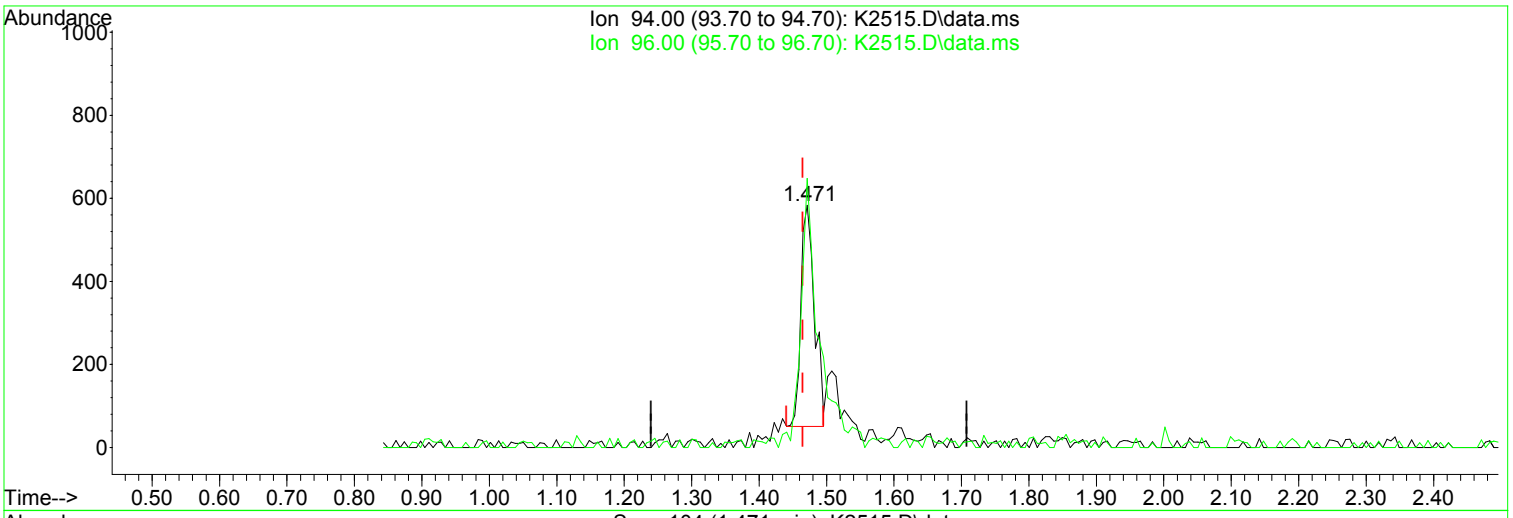
Poor integration.

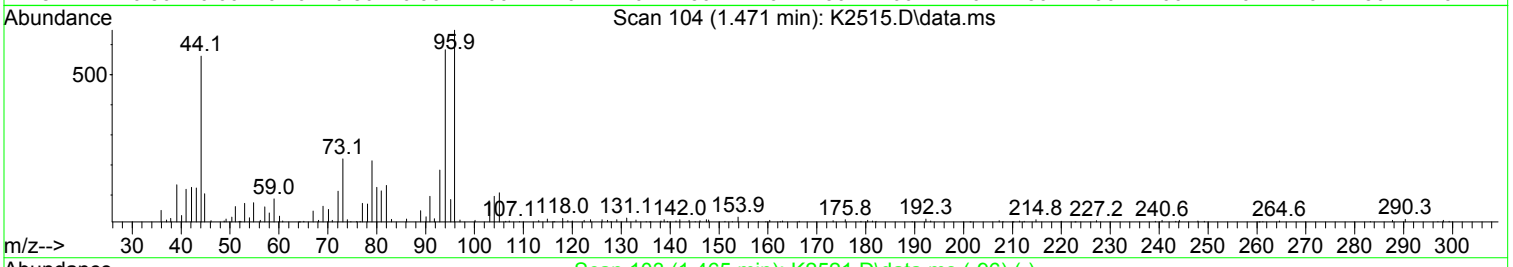
06/05/24

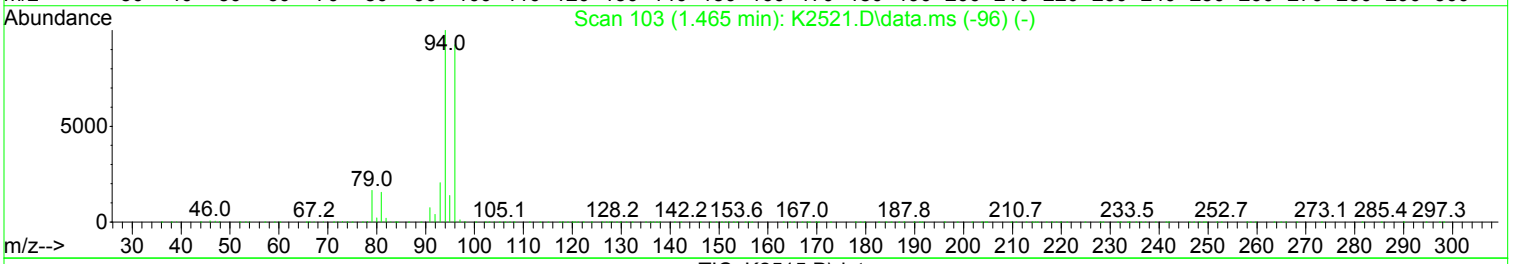
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2515.D
Acq On : 04 Jun 2024 02:44 pm
Operator : K.Ruest
Sample : IBLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 13:04:05 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration







TIC: K2515.D\data.ms

(6) Bromomethane (P)

1.471min (+ 0.006) 0.16 ug/L

response 742

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	92.50	111.15
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

06/05/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2515.D
Acq On : 04 Jun 2024 02:44 pm
Operator : K.Ruest
Sample : IBLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 13:04:05 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

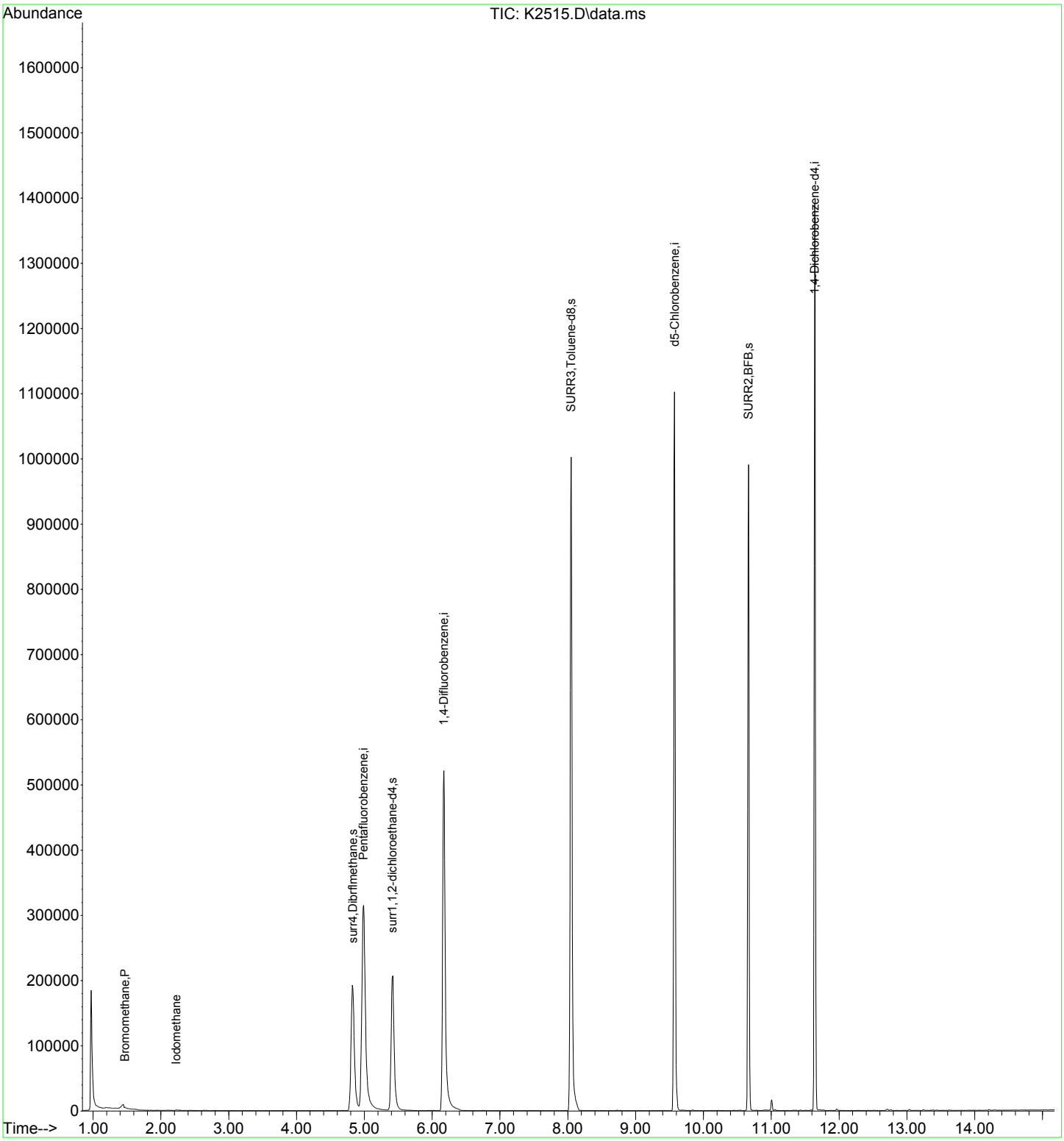
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.989	168	404572	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	6.172	114	614904	50.00	ug/L	0.00
71) d5-Chlorobenzene	9.573	117	538144	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	11.640	152	265429	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.830	113	199797	48.22	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 96.44%			
48) surr1,1,2-dichloroetha...	5.409	65	244449	48.69	ug/L	-0.01
Spiked Amount 50.000	Range 73 - 125		Recovery = 97.38%			
65) SURR3,Toluene-d8	8.049	98	708119	49.32	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 98.64%			
70) SURR2,BFB	10.665	95	257737	47.76	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 95.52%			
Target Compounds						Qvalue
6) Bromomethane	1.471	94	909m	0.223	ug/L	
18) Iodomethane	2.227	142	1118	0.450	ug/L	89

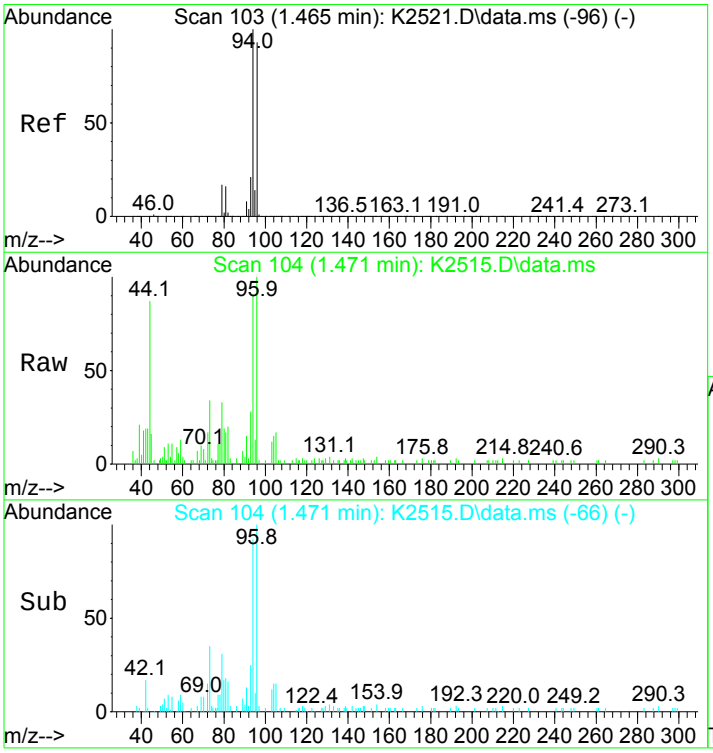
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2515.D
Acq On : 04 Jun 2024 02:44 pm
Operator : K.Ruest
Sample : IBLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 13:04:05 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 10:27:35 2024
Response via : Initial Calibration

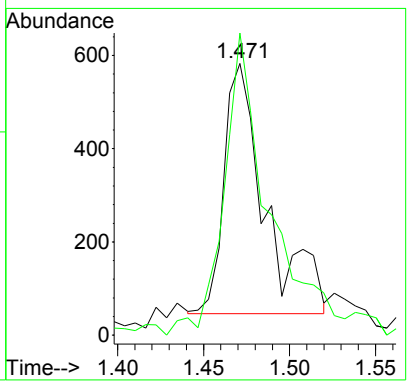


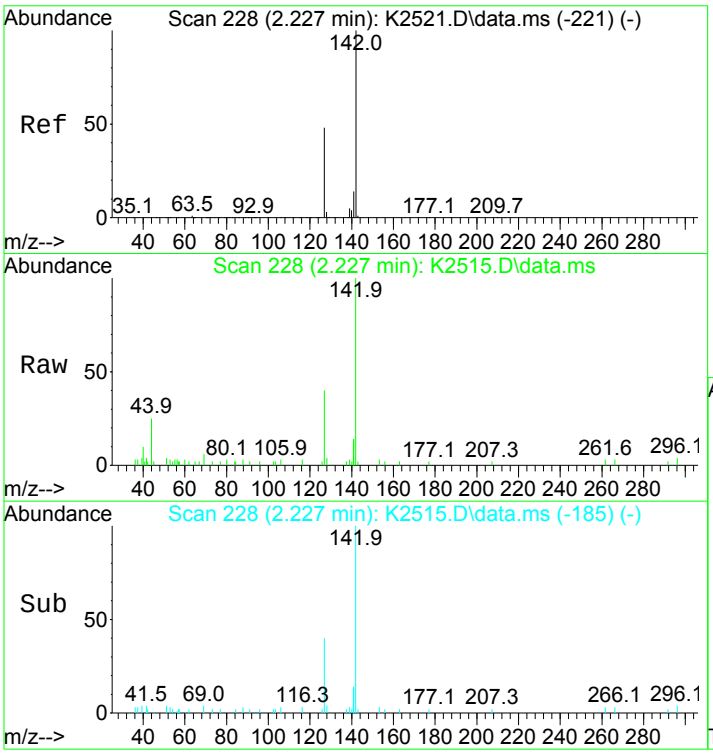


#6
Bromomethane
Concen: 0.22 ug/L m
RT: 1.471 min Scan# 104
Delta R.T. 0.006 min
Lab File: K2515.D
Acq: 04 Jun 2024 02:44 pm

Tgt Ion: 94 Resp: 909

Ion	Ratio	Lower	Upper
94	100		
96	111.1	72.5	112.5

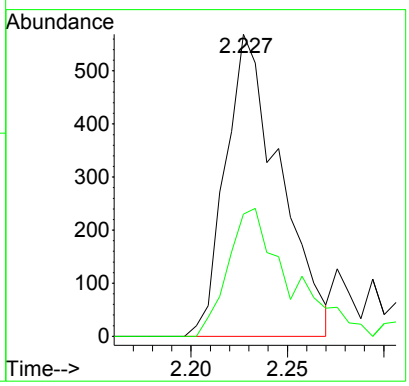




#18
Iodomethane
Concen: 0.45 ug/L
RT: 2.227 min Scan# 228
Delta R.T. -0.000 min
Lab File: K2515.D
Acq: 04 Jun 2024 02:44 pm

Tgt Ion:142 Resp: 1118

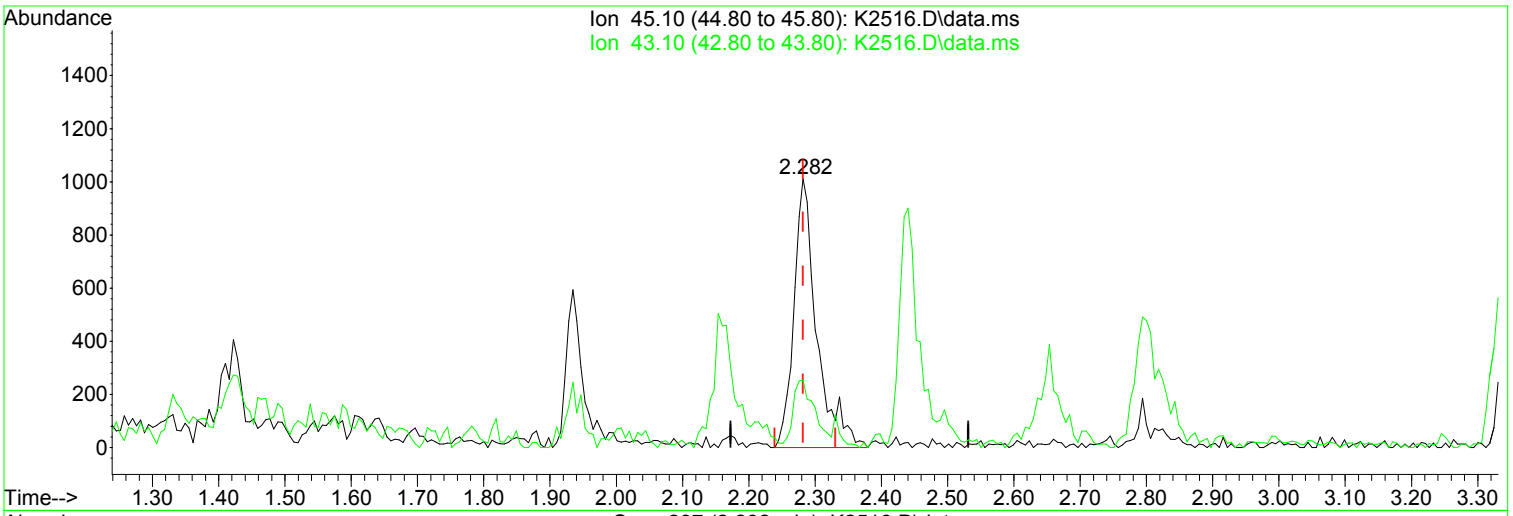
Ion	Ratio	Lower	Upper
142	100		
127	40.4	27.6	67.6

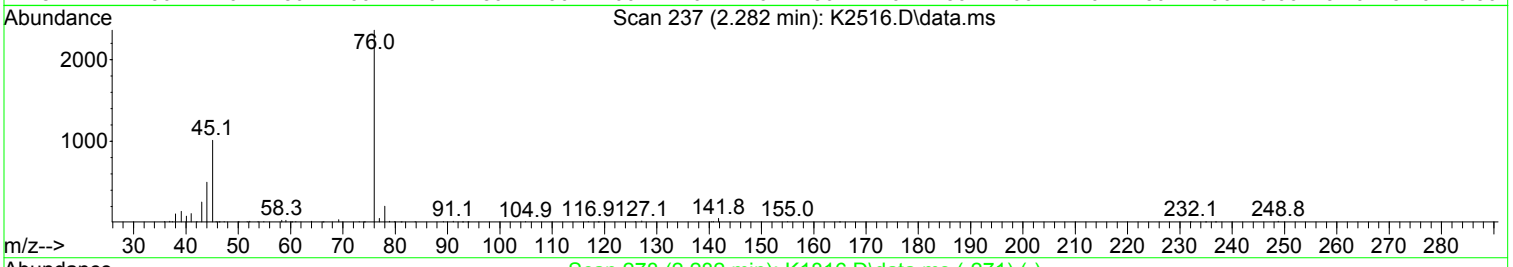


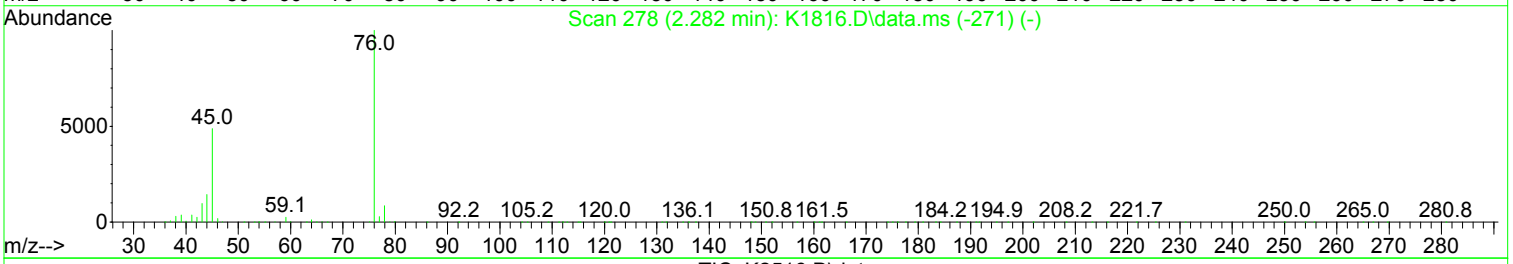
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2516.D
Acq On : 04 Jun 2024 03:07 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 09:53:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2516.D\data.ms

(17) 2-Propanol

2.282min (-0.000) 10.85 ug/L m

response 2413

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	20.90	25.10
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

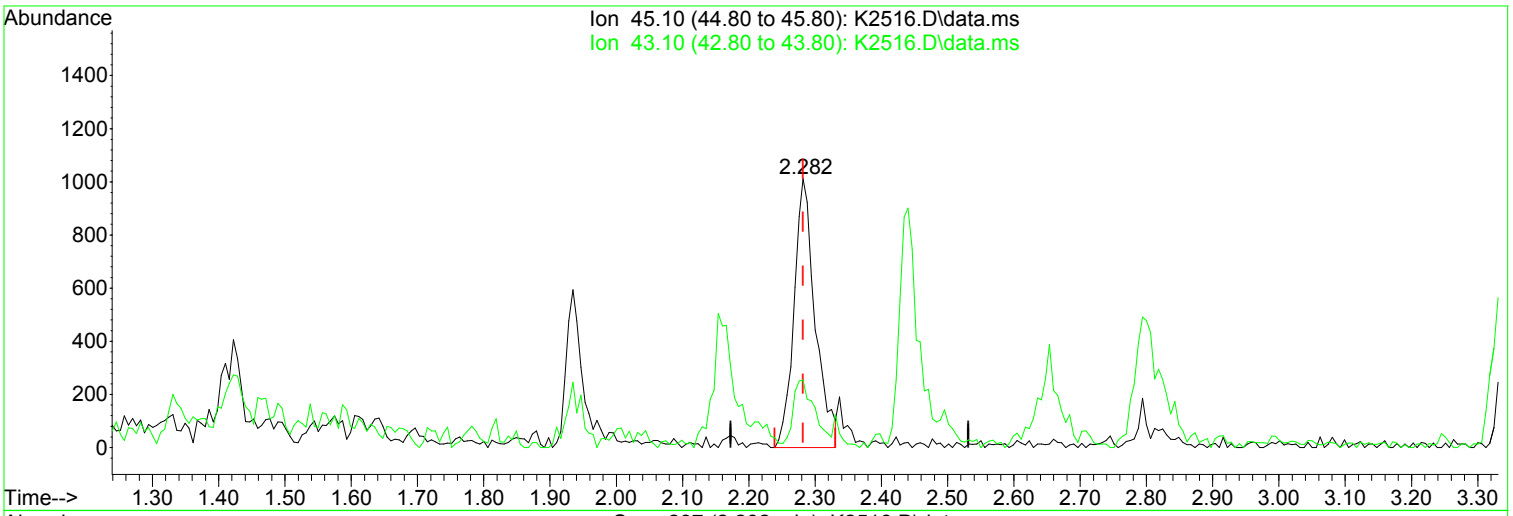
Poor integration.

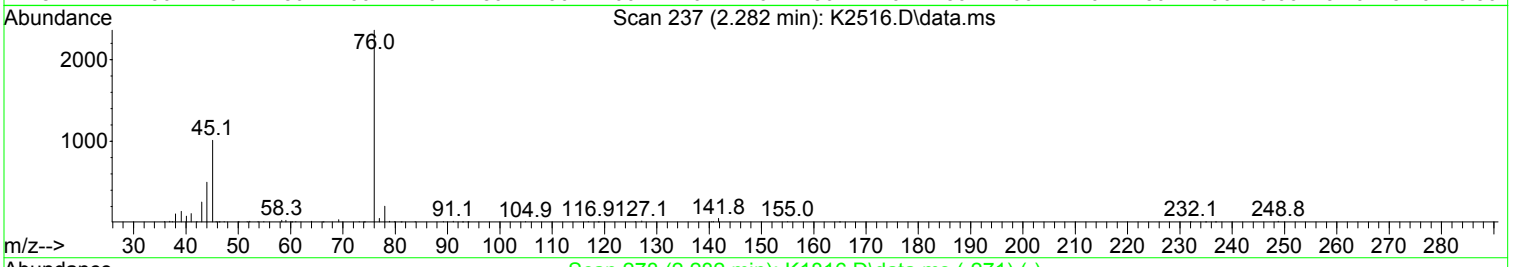
06/05/24

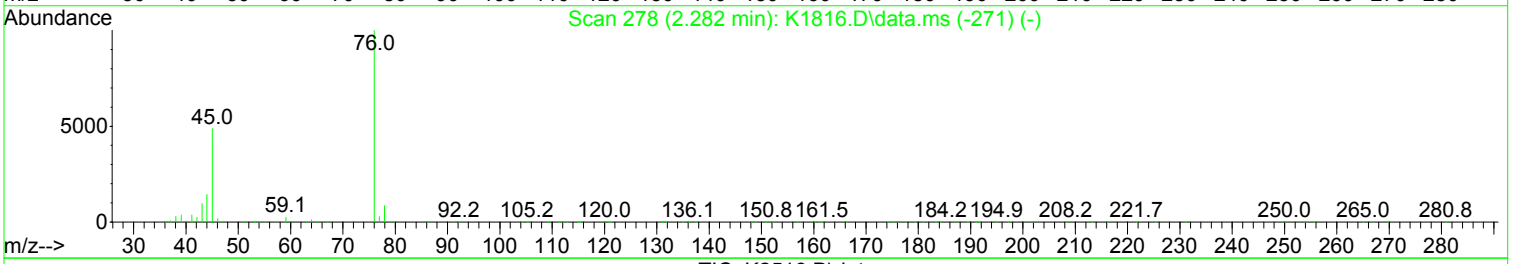
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2516.D
Acq On : 04 Jun 2024 03:07 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 09:53:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2516.D\data.ms

(17) 2-Propanol

2.282min (-0.000) 10.07 ug/L

response 2239

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	20.90	24.71
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

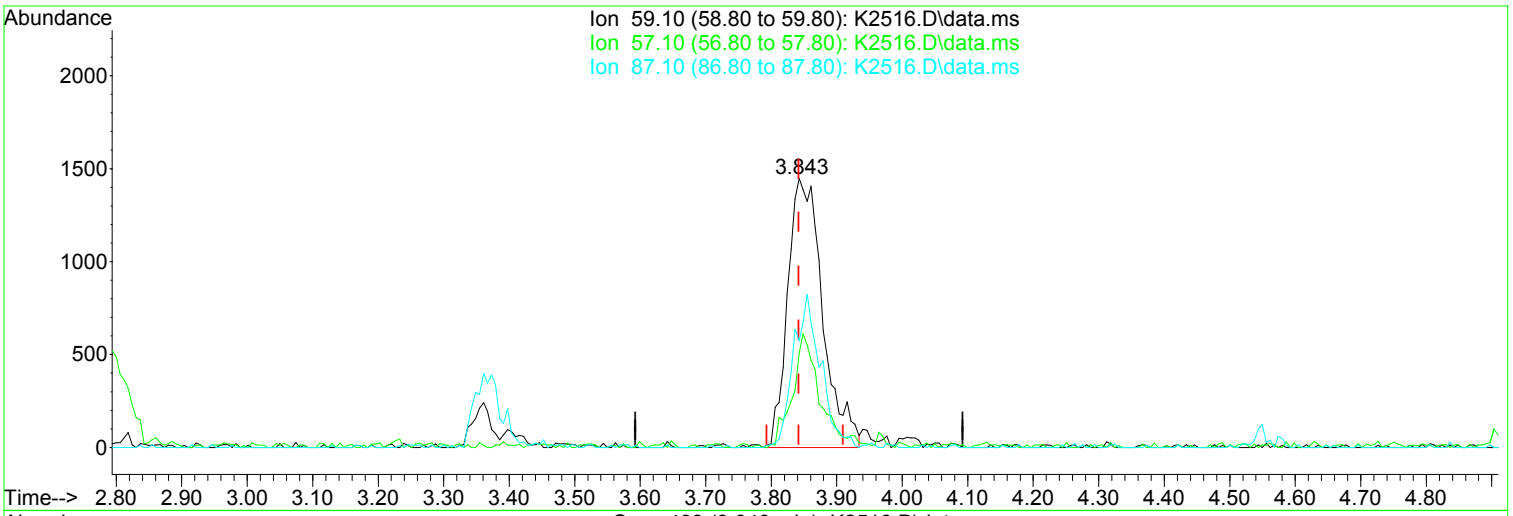
Before

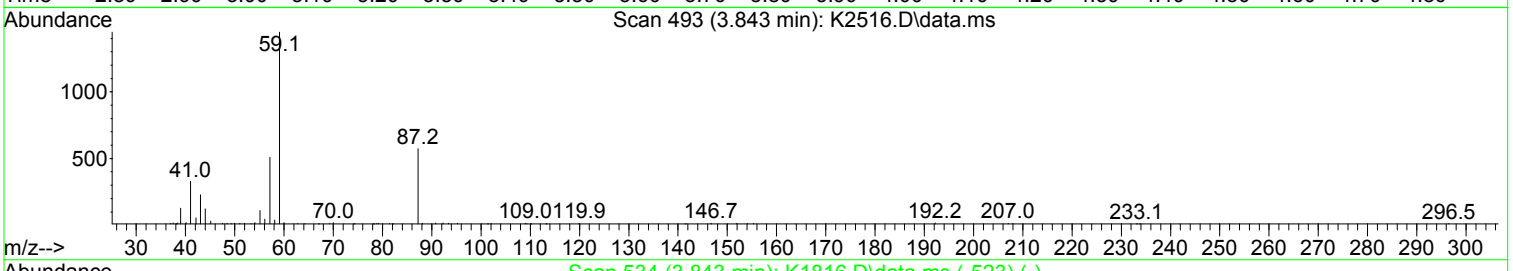
06/05/24

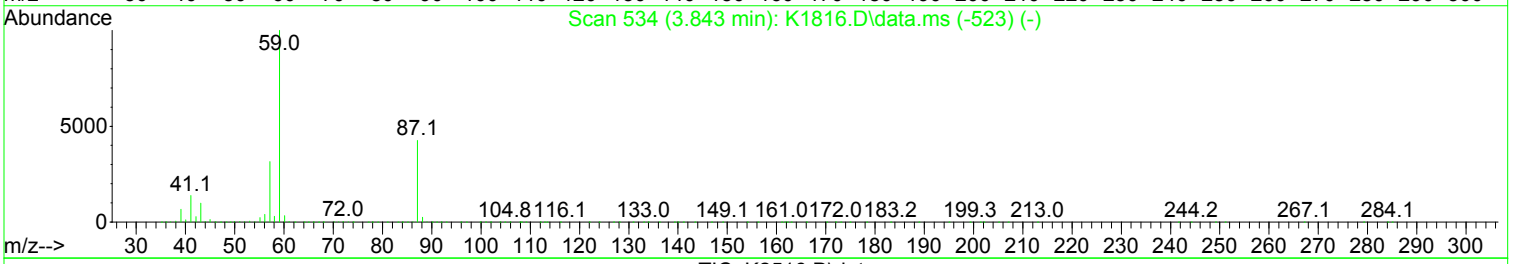
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2516.D
Acq On : 04 Jun 2024 03:07 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 09:53:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2516.D\data.ms

(32) ETBE

3.843min (-0.000) 0.50 ug/L m

response 5346

Ion	Exp%	Act%
59.10	100.00	100.00
57.10	31.80	35.11
87.10	42.60	39.60
0.00	0.00	0.00

Manual Integration:

After

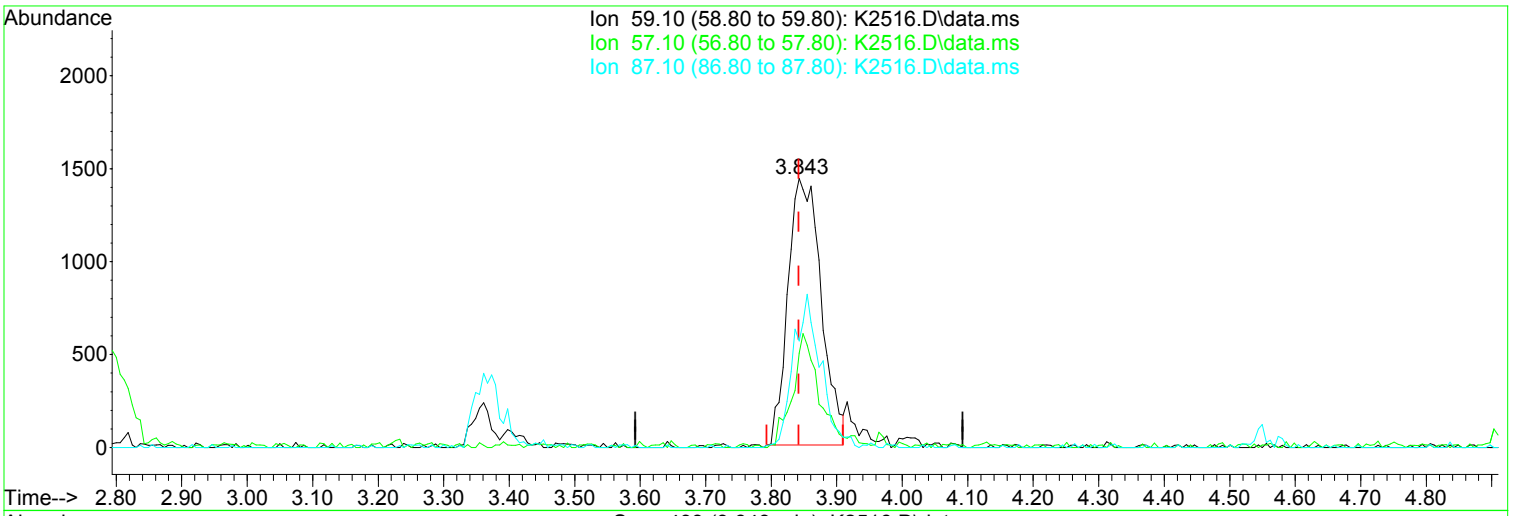
Poor integration.

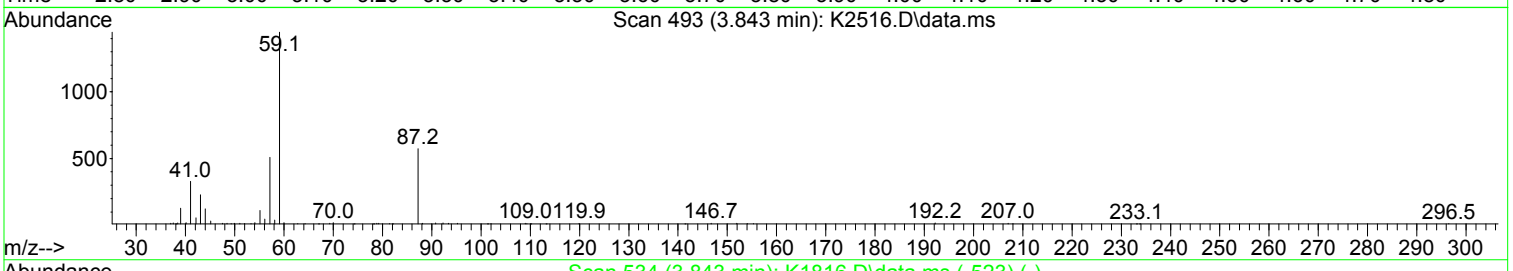
06/05/24

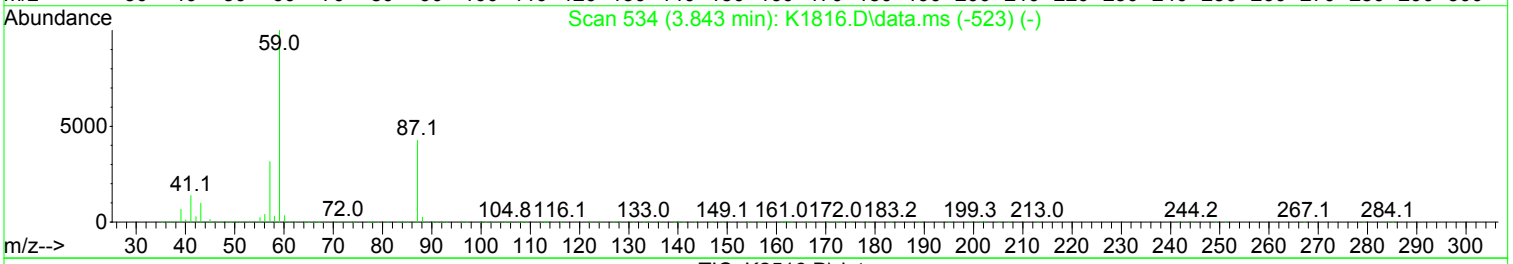
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2516.D
Acq On : 04 Jun 2024 03:07 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 09:53:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2516.D\data.ms

(32) ETBE

3.843min (-0.000) 0.47 ug/L

response 5033

Ion	Exp%	Act%
59.10	100.00	100.00
57.10	31.80	35.11
87.10	42.60	39.60
0.00	0.00	0.00

Manual Integration:

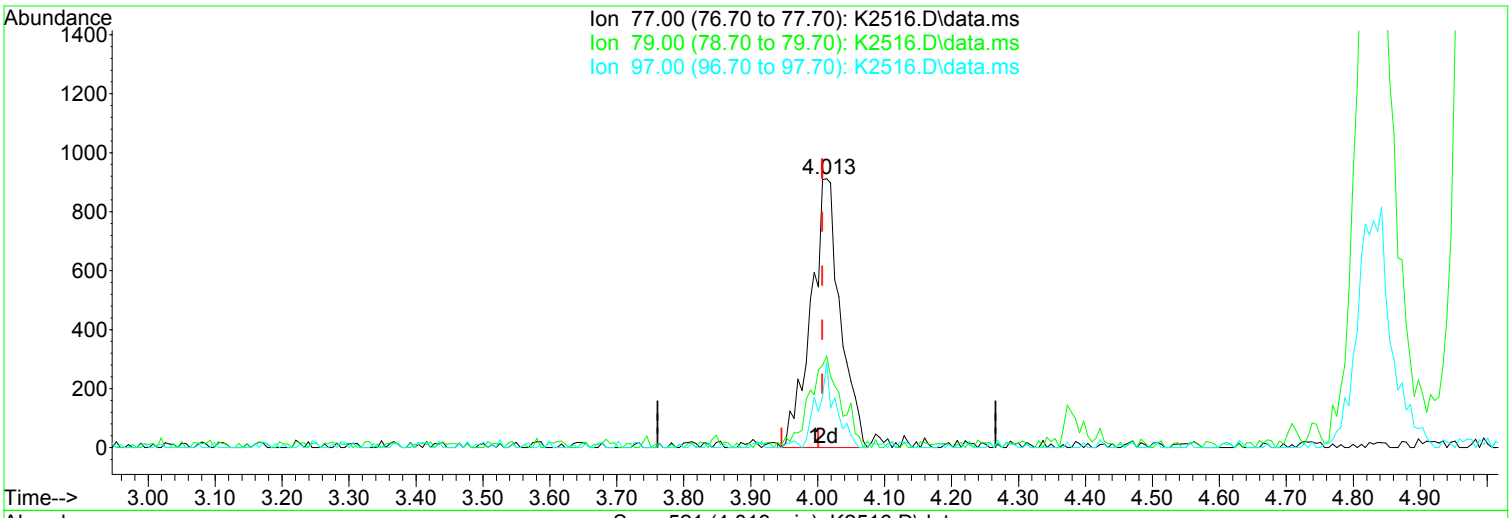
Before

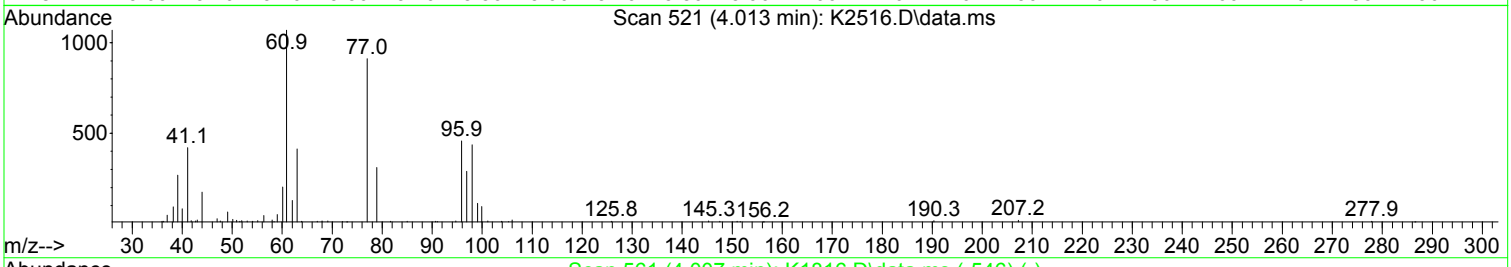
06/05/24

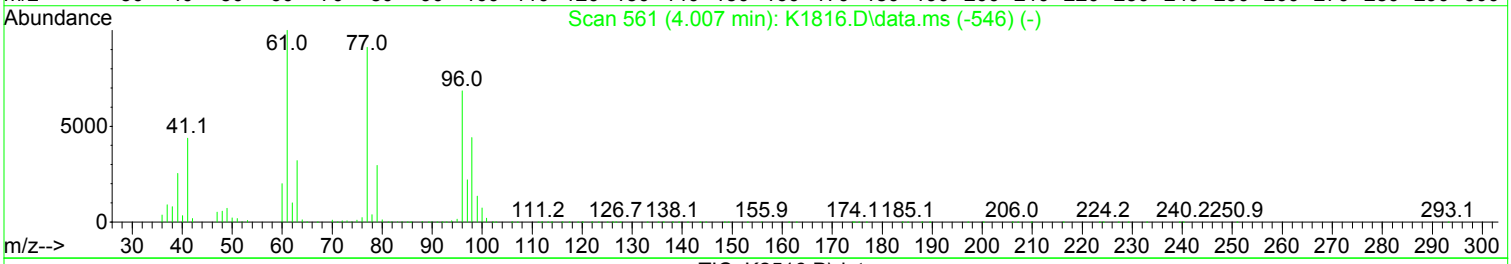
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2516.D
Acq On : 04 Jun 2024 03:07 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 09:53:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2516.D\data.ms

(33) 2,2-Dichloropropane

4.013min (+ 0.006) 0.60 ug/L m

response 2760

Ion	Exp%	Act%
77.00	100.00	100.00
79.00	32.60	34.10
97.00	24.30	31.80
0.00	0.00	0.00

Manual Integration:

After

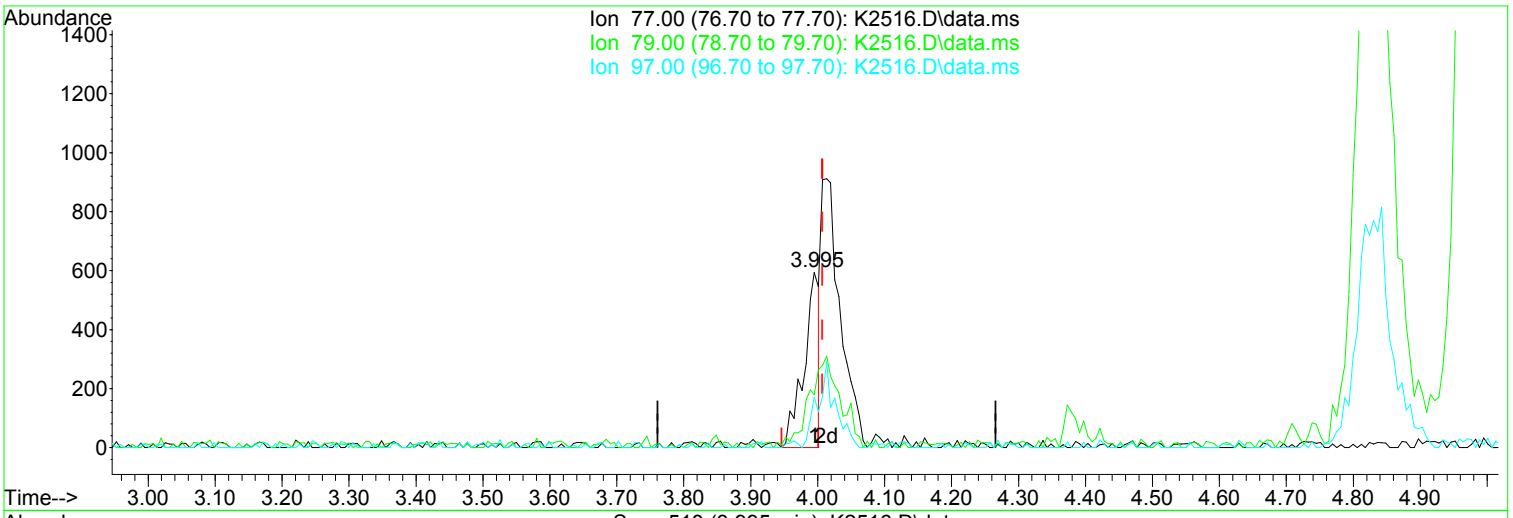
Split Peak.

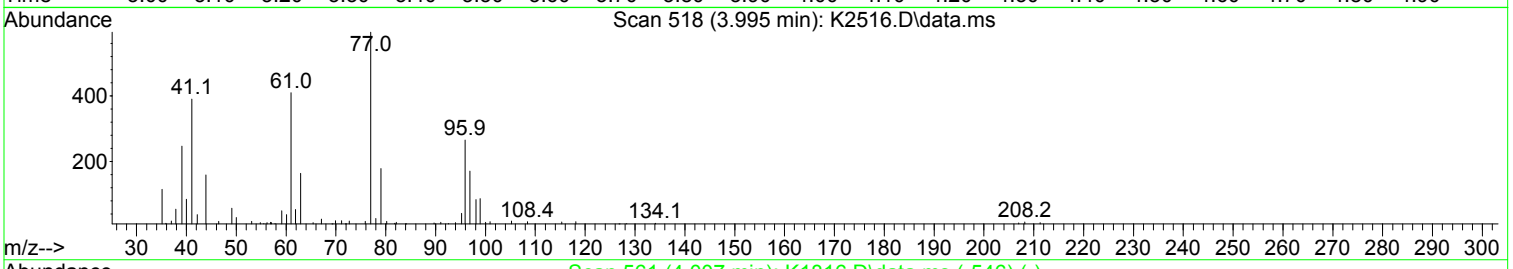
06/05/24

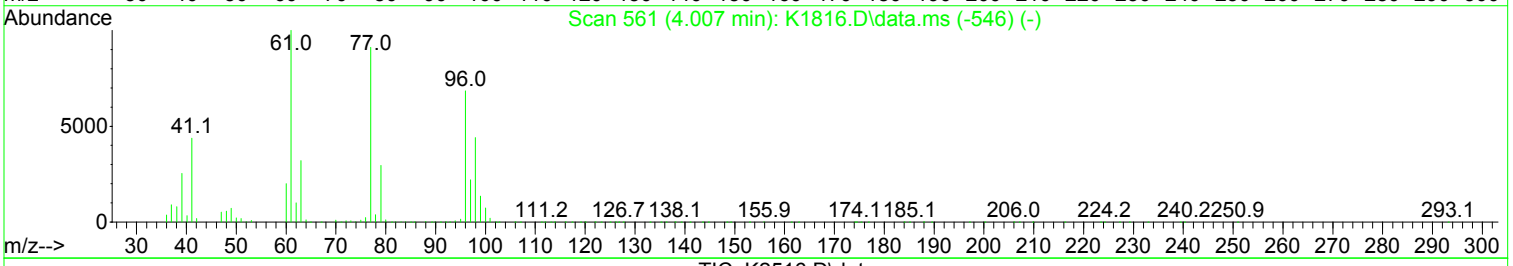
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2516.D
Acq On : 04 Jun 2024 03:07 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 09:53:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2516.D\data.ms

(33) 2,2-Dichloropropane

3.995min (-0.012) 0.21 ug/L

response 948

Ion	Exp%	Act%
77.00	100.00	100.00
79.00	32.60	30.13
97.00	24.30	28.79
0.00	0.00	0.00

Manual Integration:

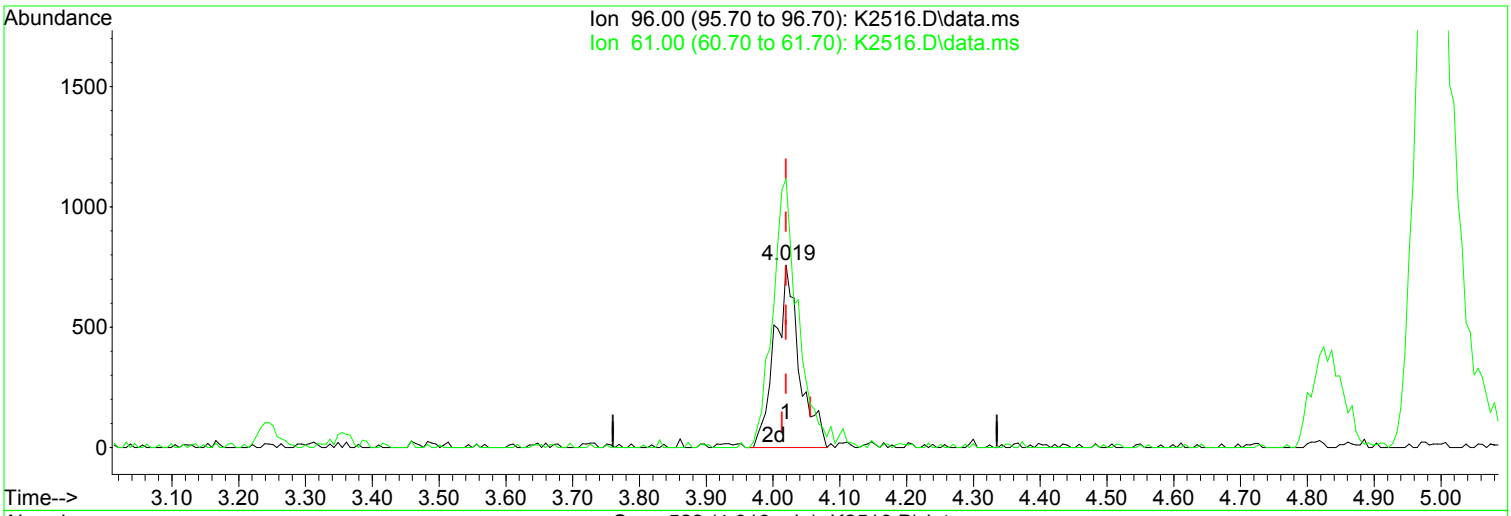
Before

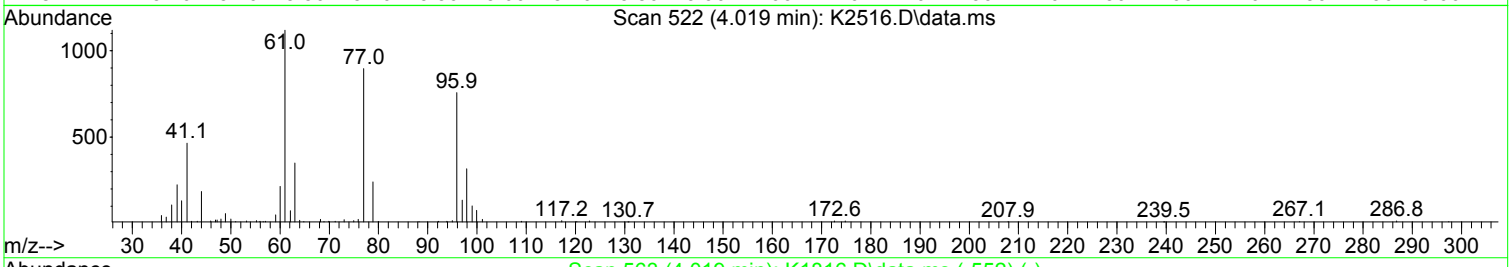
06/05/24

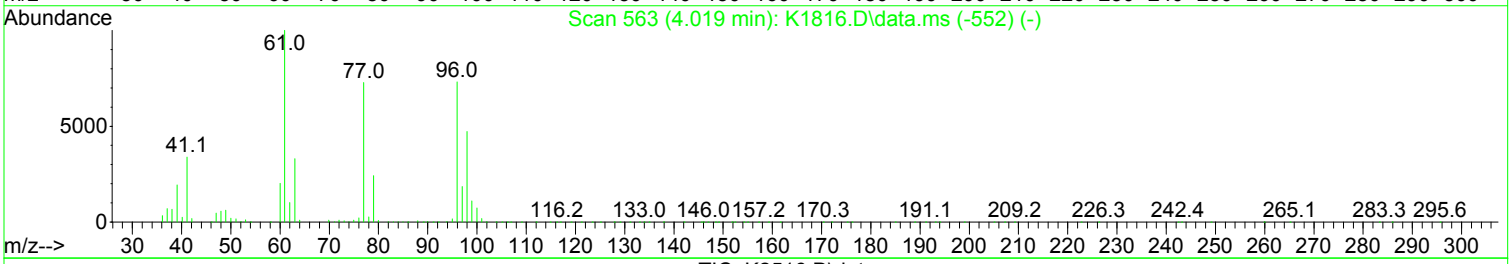
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2516.D
Acq On : 04 Jun 2024 03:07 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 09:53:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2516.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.019min (-0.000) 0.58 ug/L m

response 1930

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	136.80	147.49
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

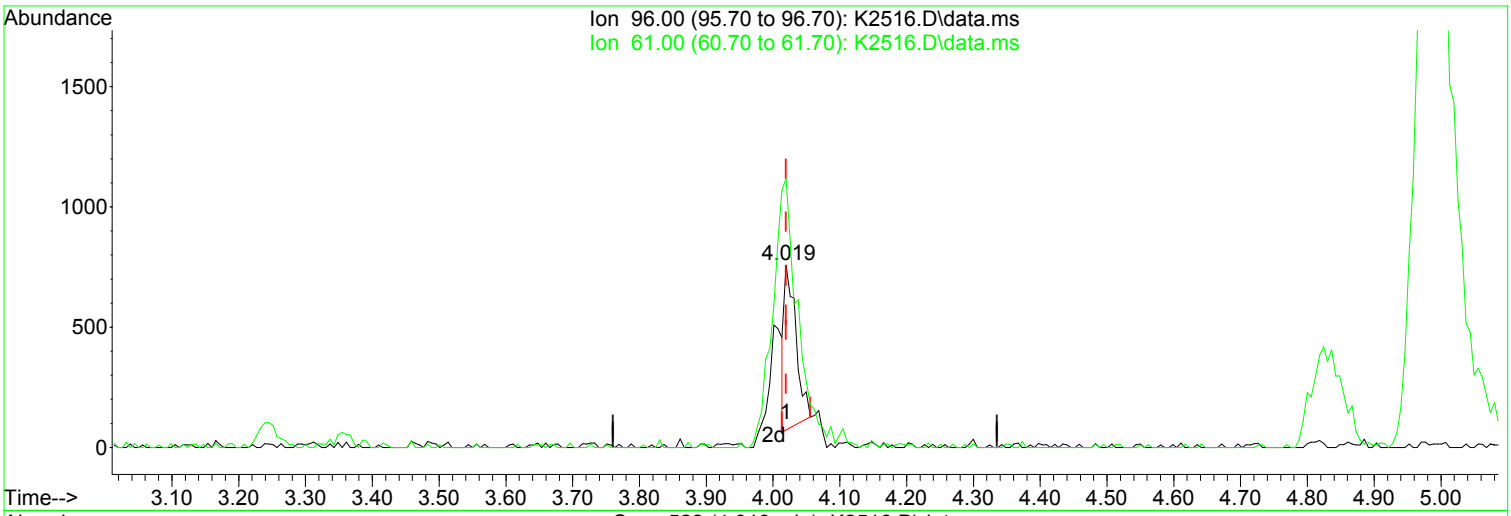
Split Peak.

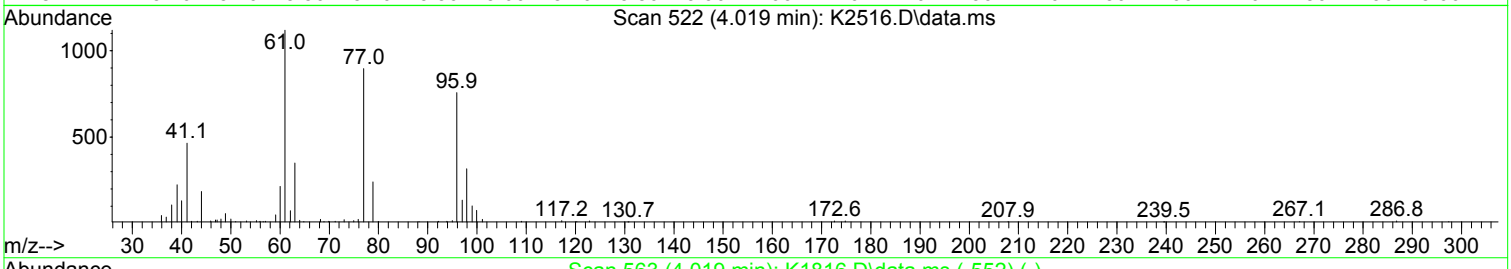
06/05/24

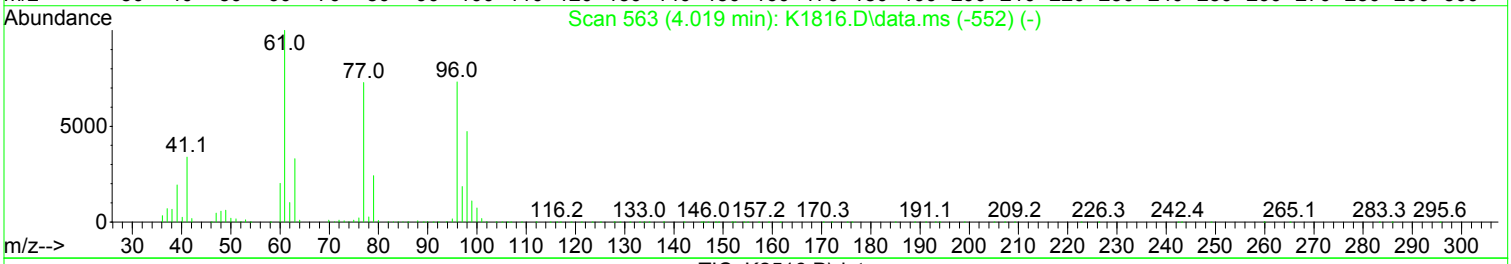
1st 06/05/24
2nd 06/06/24

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2516.D
Acq On : 04 Jun 2024 03:07 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 09:53:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2516.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.019min (-0.000) 0.25 ug/L

response 816

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	136.80	147.49
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

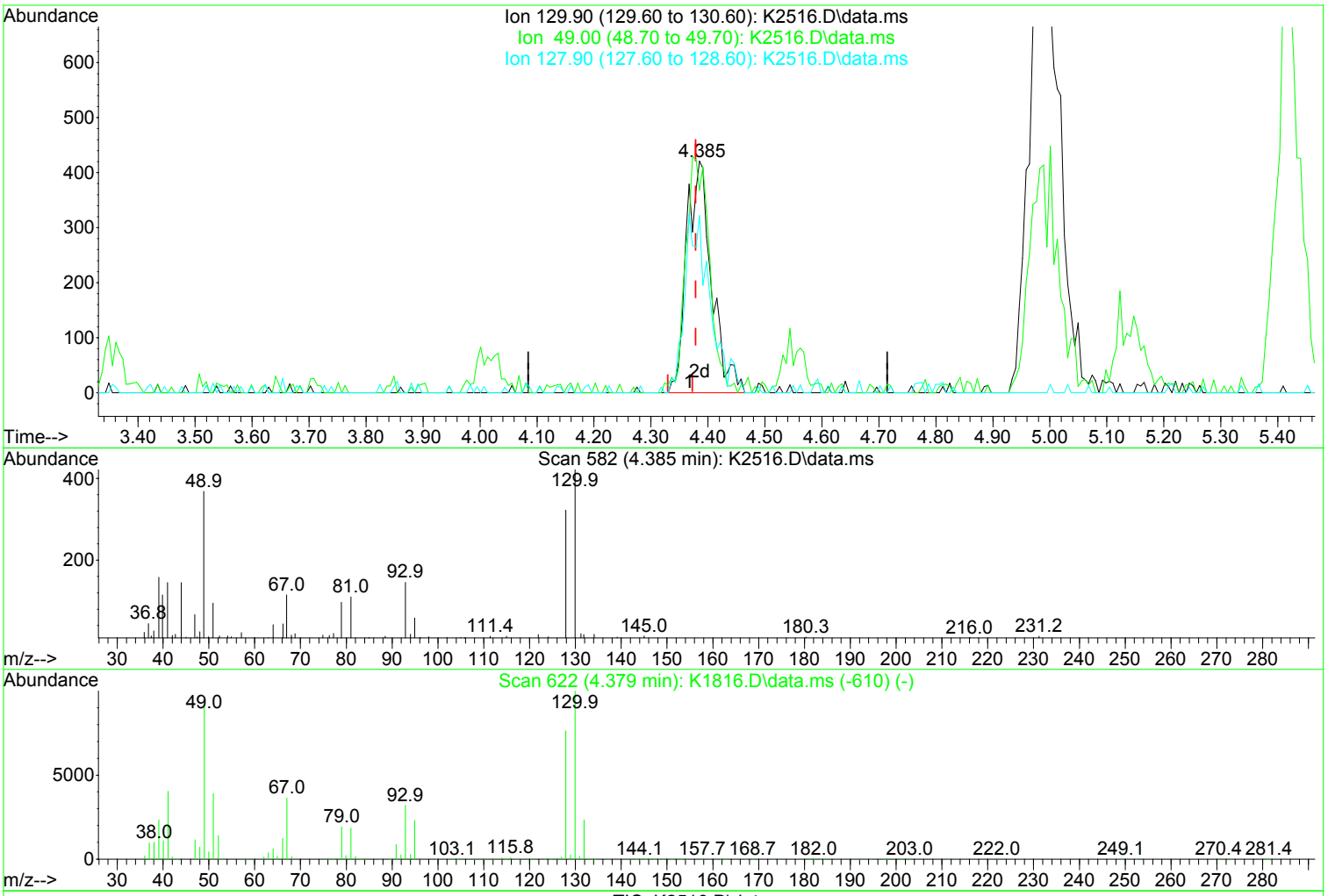
Before

06/05/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2516.D
Acq On : 04 Jun 2024 03:07 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 09:53:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration



TIC: K2516.D\data.ms

(37) Bromochloromethane

4.385min (+ 0.006) 0.58 ug/L m

response 1287

Ion	Exp%	Act%
129.90	100.00	100.00
49.00	91.80	87.41
127.90	76.20	76.48
0.00	0.00	0.00

Manual Integration:

After

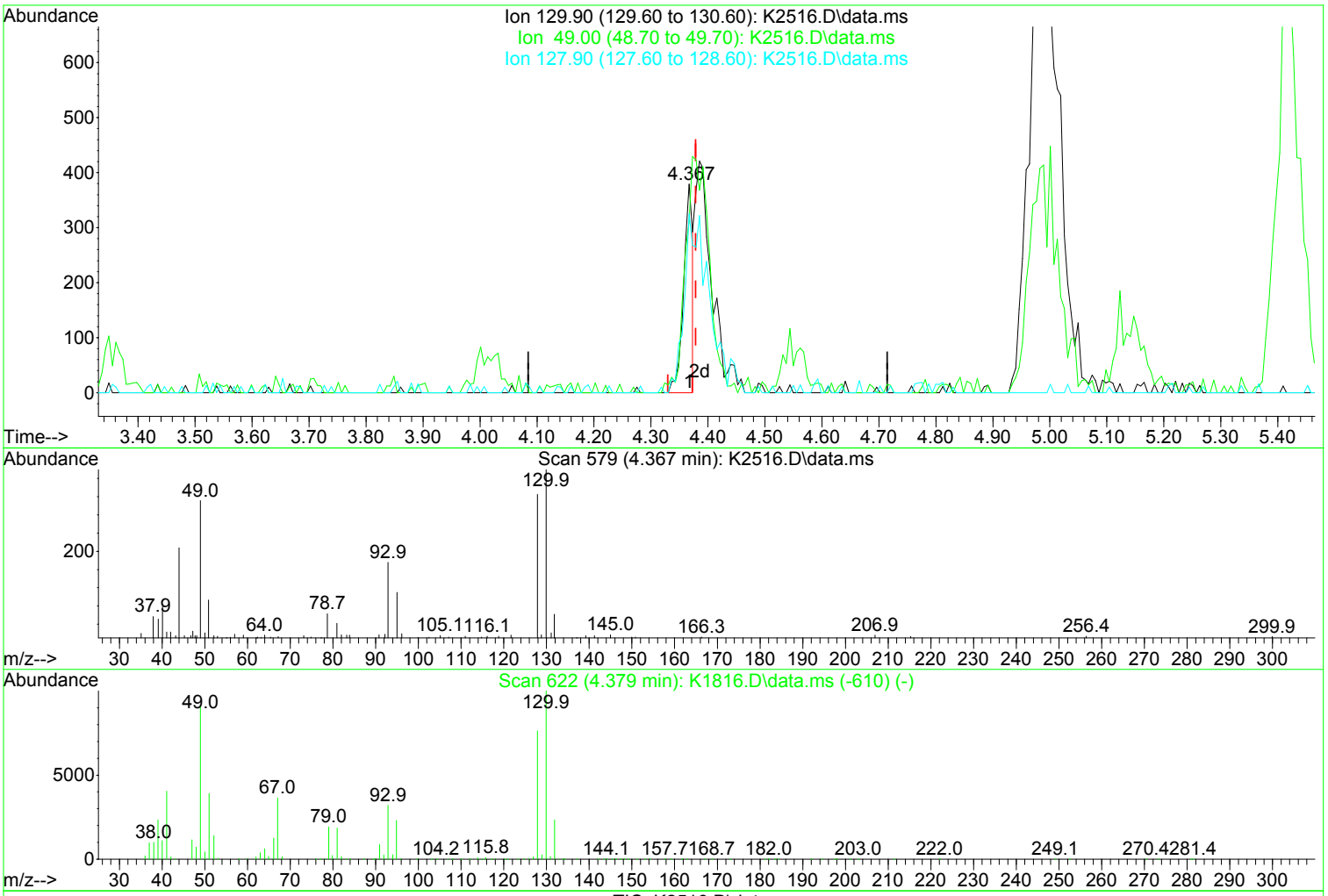
Split Peak.

06/05/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2516.D
Acq On : 04 Jun 2024 03:07 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 09:53:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration



TIC: K2516.D\data.ms

(37) Bromochloromethane

4.367min (-0.012) 0.19 ug/L

response 431

Ion	Exp%	Act%
129.90	100.00	100.00
49.00	91.80	82.06
127.90	76.20	85.75
0.00	0.00	0.00

Manual Integration:

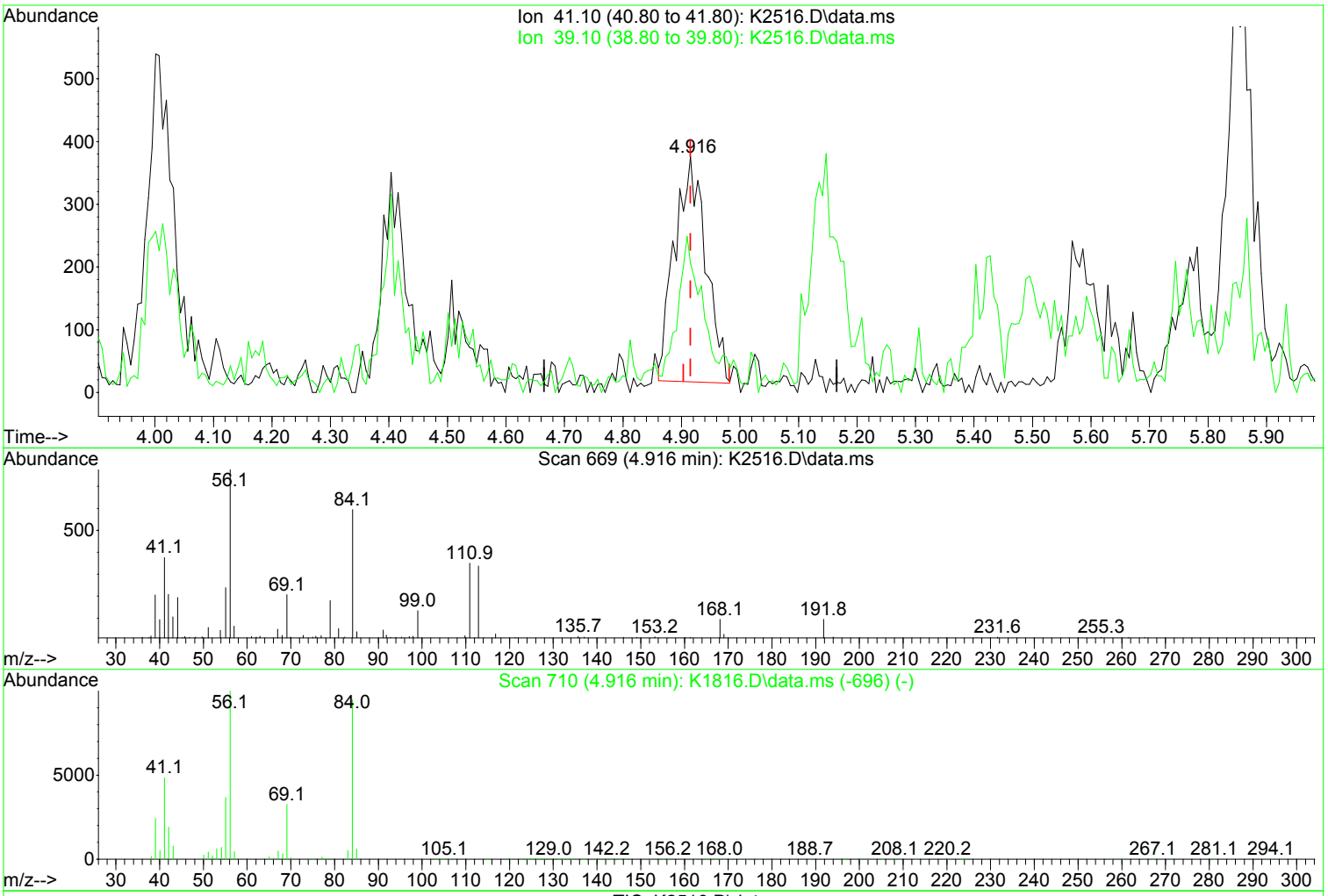
Before

06/05/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2516.D
Acq On : 04 Jun 2024 03:07 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 09:53:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration



TIC: K2516.D\data.ms

(44) Cyclohexane (P)

4.916min (-0.000) 0.53 ug/L m

response 1323

Ion	Exp%	Act%
41.10	100.00	100.00
39.10	50.30	54.79
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

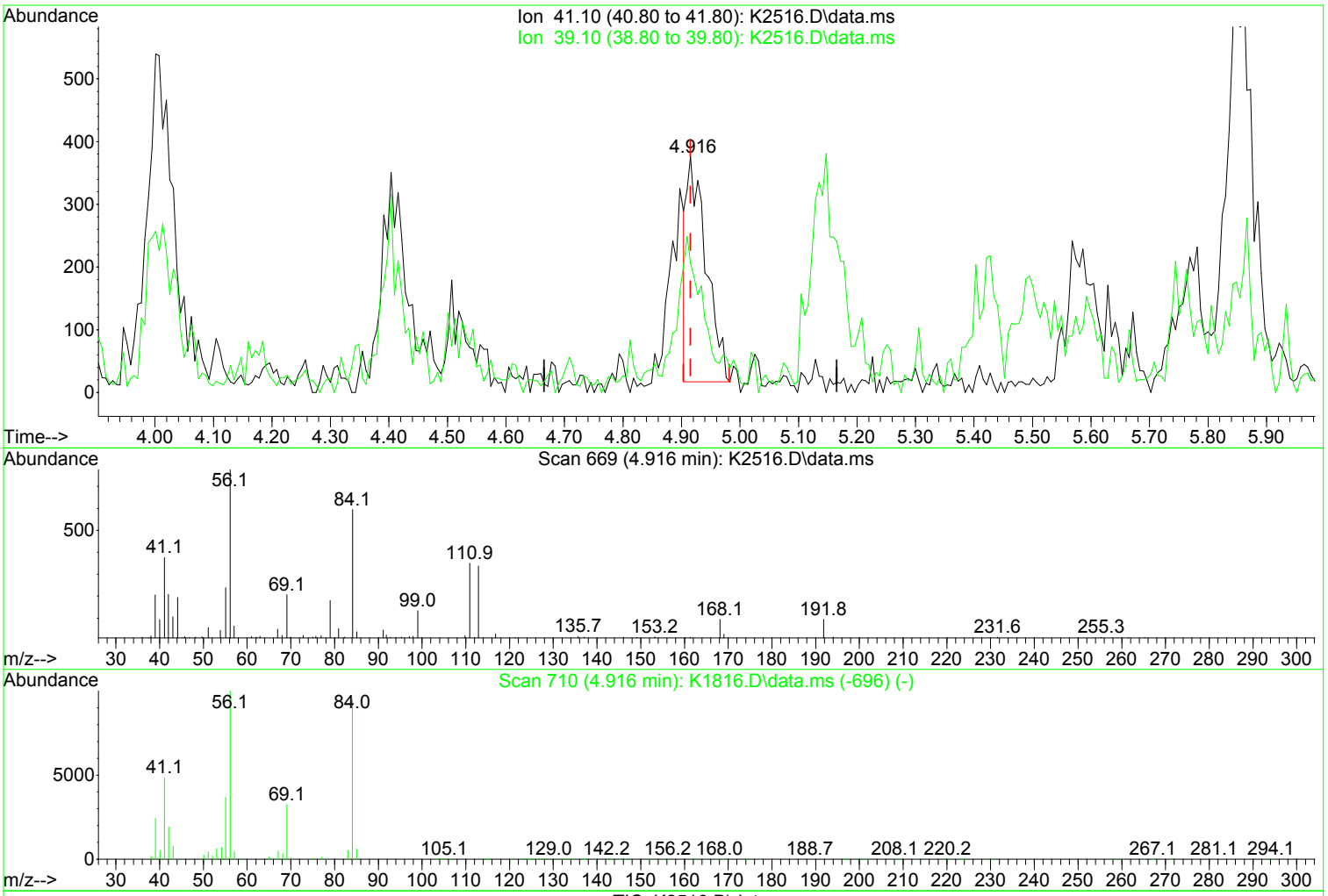
Split Peak.

06/05/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2516.D
Acq On : 04 Jun 2024 03:07 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 09:53:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration



TIC: K2516.D\data.ms

(44) Cyclohexane (P)

4.916min (-0.000) 0.33 ug/L

response 833

Ion	Exp%	Act%
41.10	100.00	100.00
39.10	50.30	54.79
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

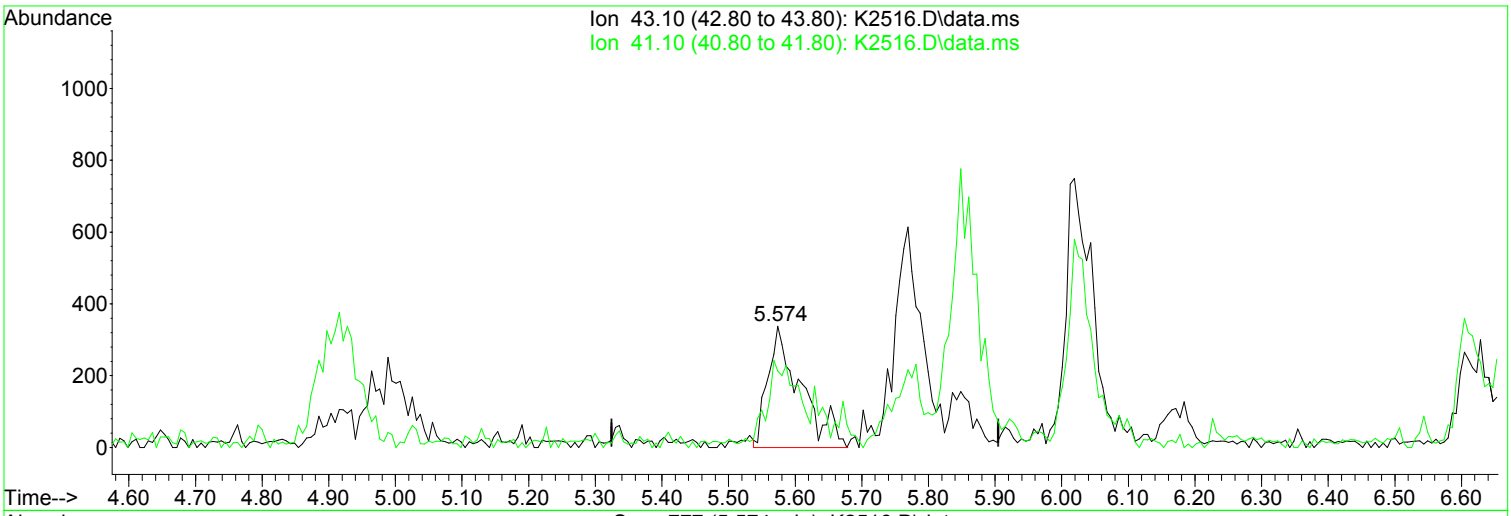
Before

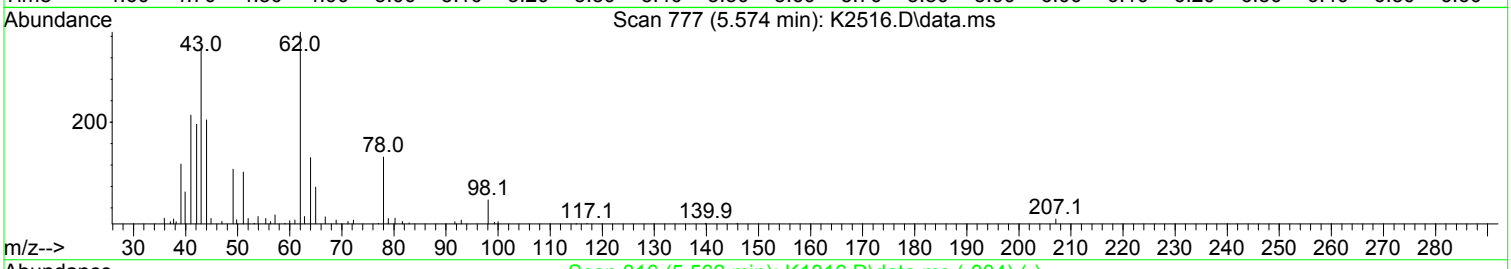
06/05/24

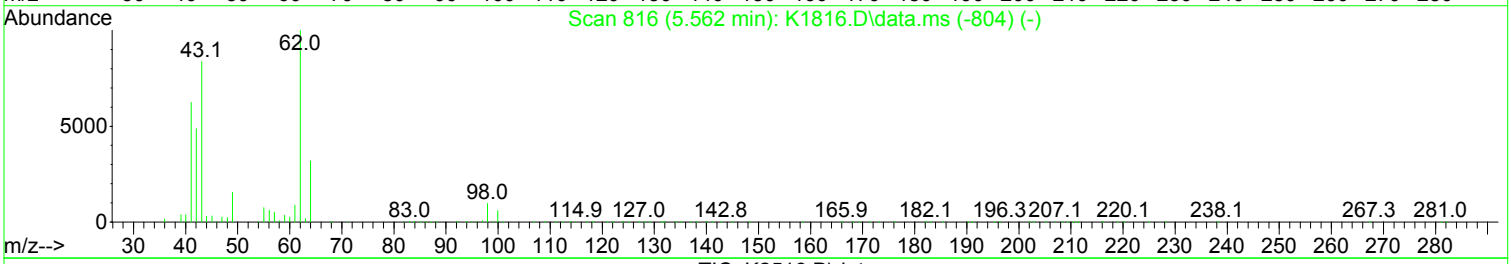
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2516.D
Acq On : 04 Jun 2024 03:07 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 09:53:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2516.D\data.ms

(51) Iso-Butyl Alcohol

5.574min (+ 0.012) 8.25 ug/L m

response 1160

Ion	Exp%	Act%
43.10	100.00	100.00
41.10	74.70	63.02
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

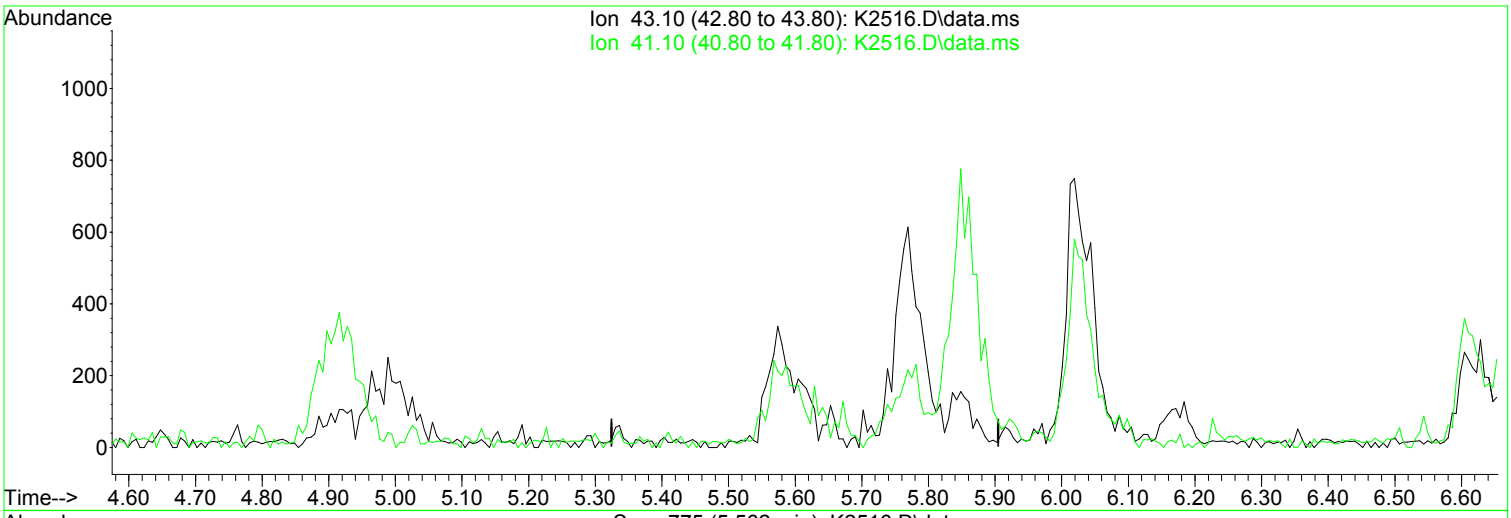
Peak not found.

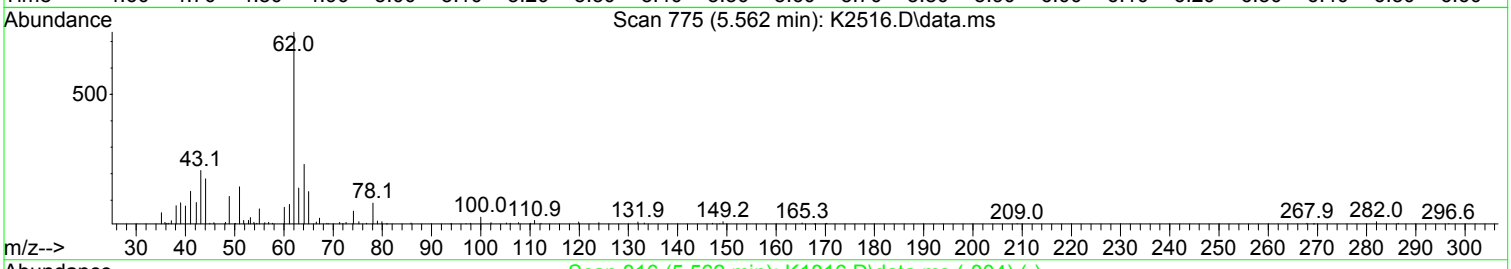
06/05/24

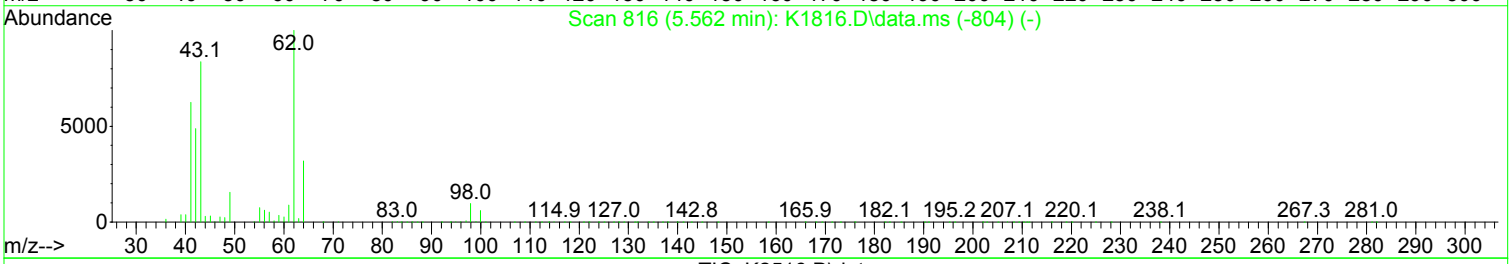
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2516.D
Acq On : 04 Jun 2024 03:07 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 09:53:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2516.D\data.ms

(51) Iso-Butyl Alcohol

5.562min (-5.562) 0.00 ug/L

response 0

Ion	Exp%	Act%
43.10	100.00	0.00
41.10	74.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

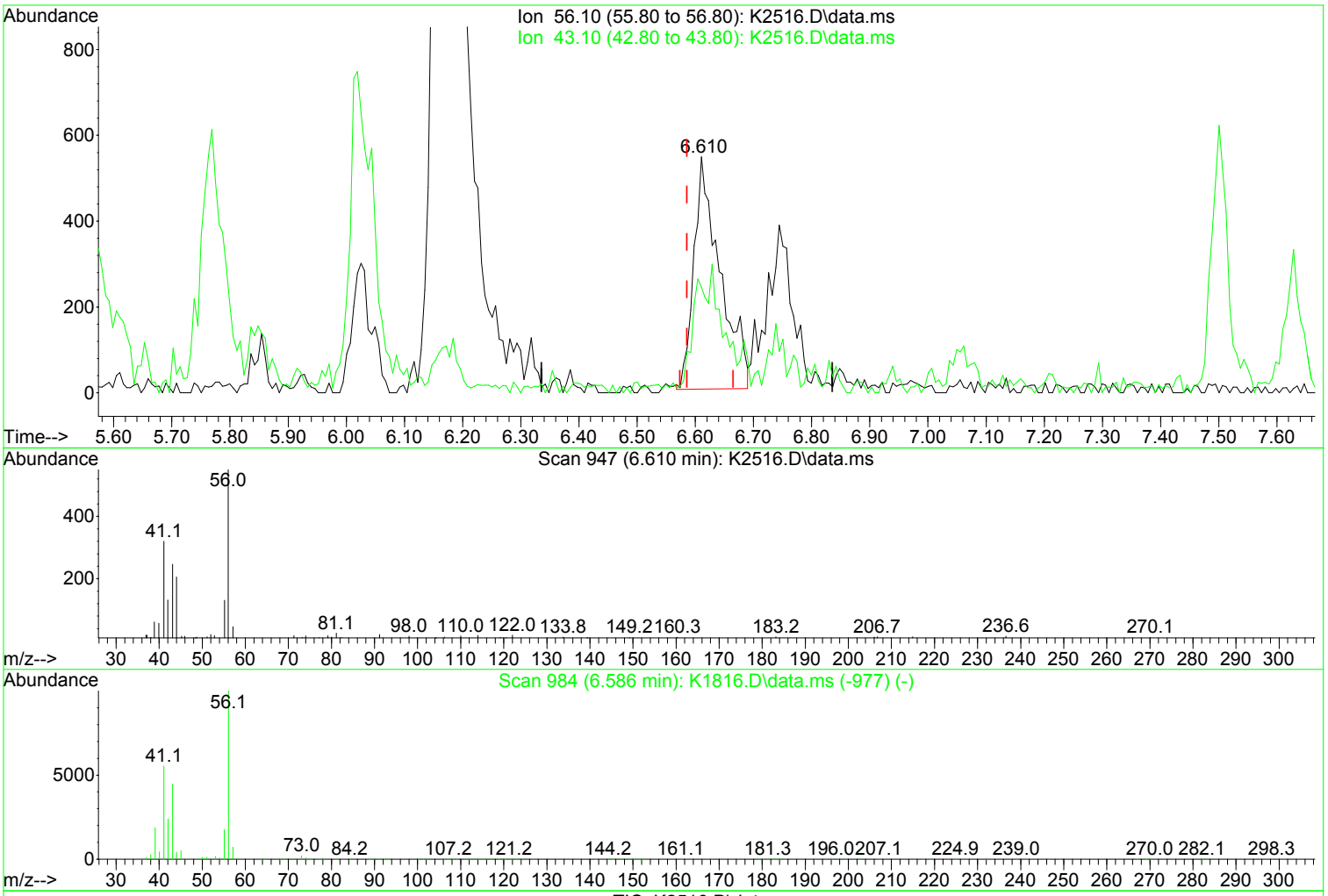
Before

06/05/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2516.D
Acq On : 04 Jun 2024 03:07 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 09:53:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration



TIC: K2516.D\data.ms

(53) 1-Butanol

6.610min (+ 0.024) 16.62 ug/L m

response 1687

Ion	Exp%	Act%
56.10	100.00	100.00
43.10	45.00	44.73
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

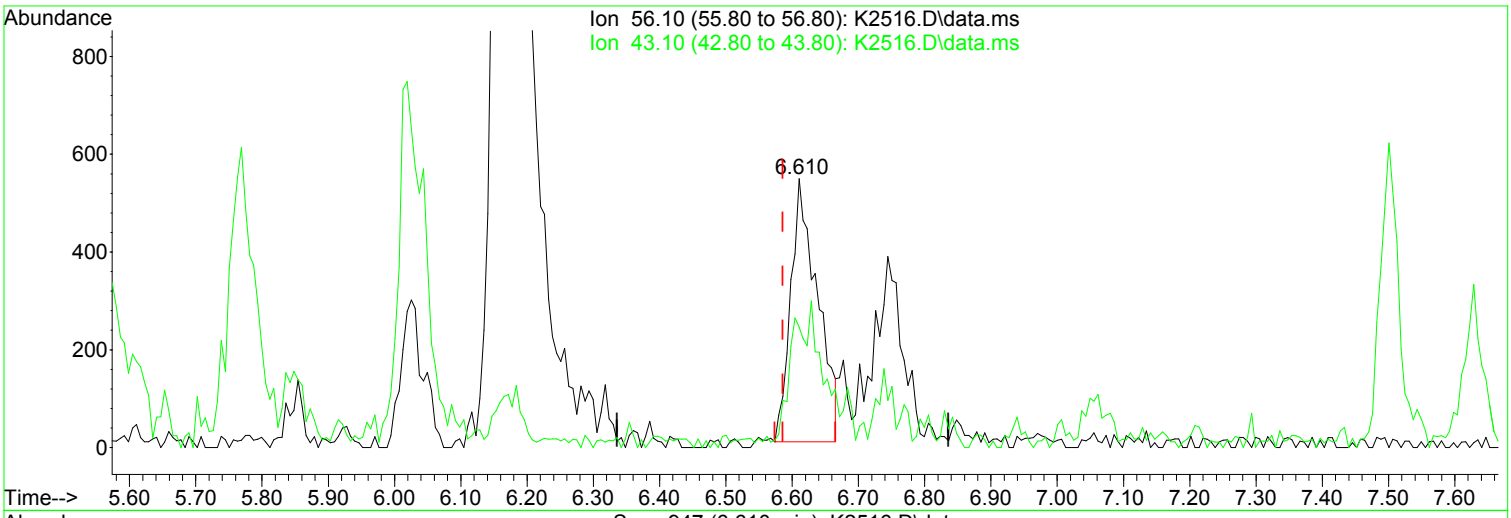
Poor integration.

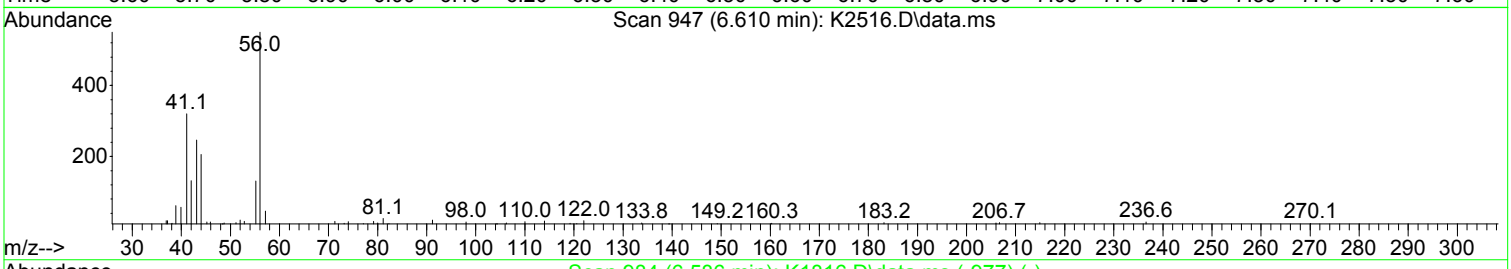
06/05/24

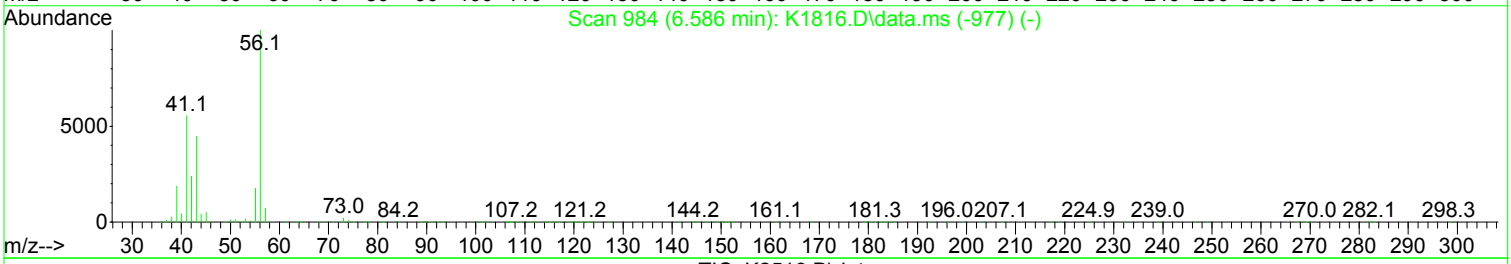
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2516.D
Acq On : 04 Jun 2024 03:07 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 09:53:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2516.D\data.ms

(53) 1-Butanol

6.610min (+ 0.024) 14.85 ug/L

response 1507

Ion	Exp%	Act%
56.10	100.00	100.00
43.10	45.00	44.73
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

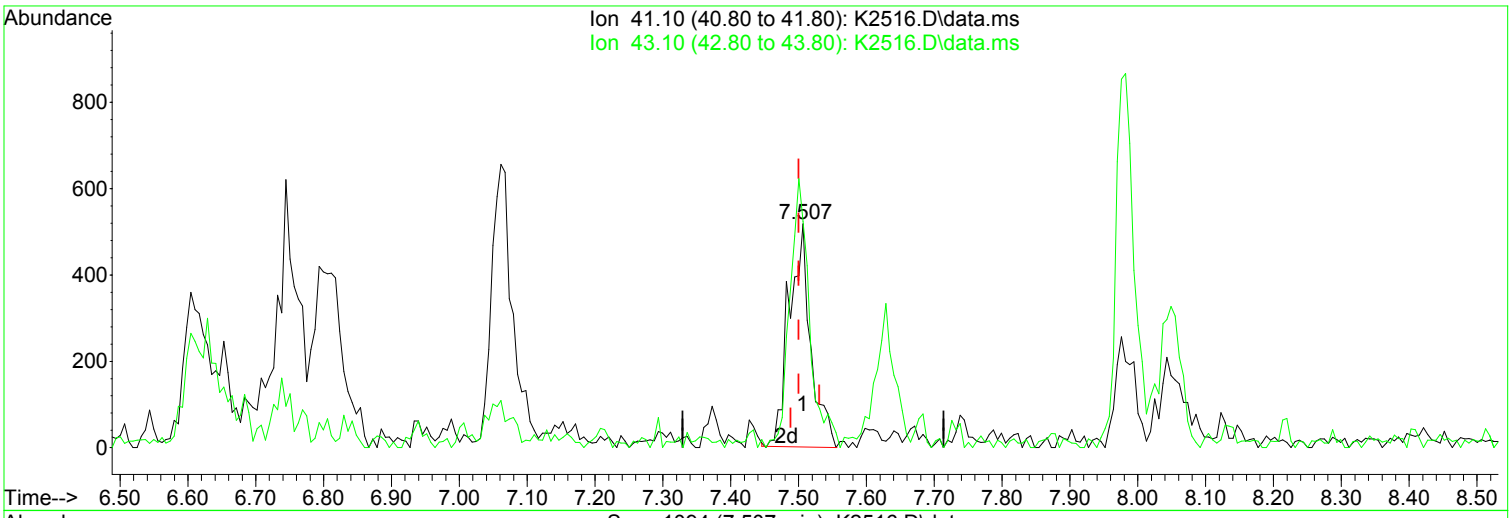
Before

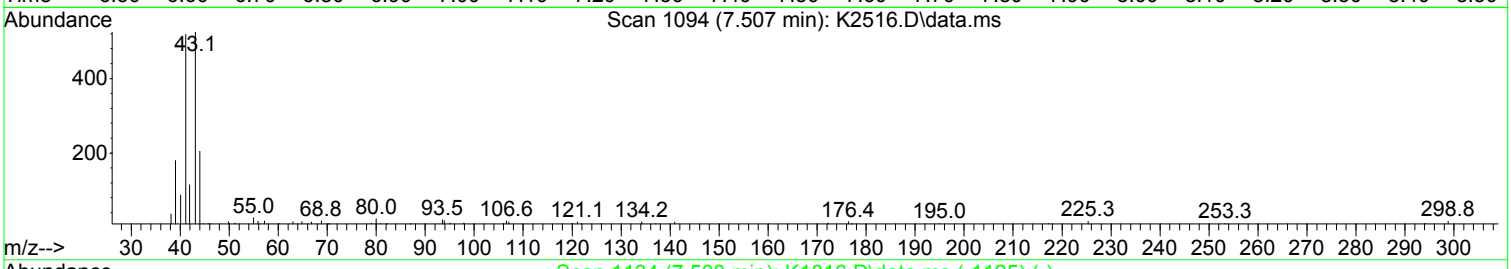
06/05/24

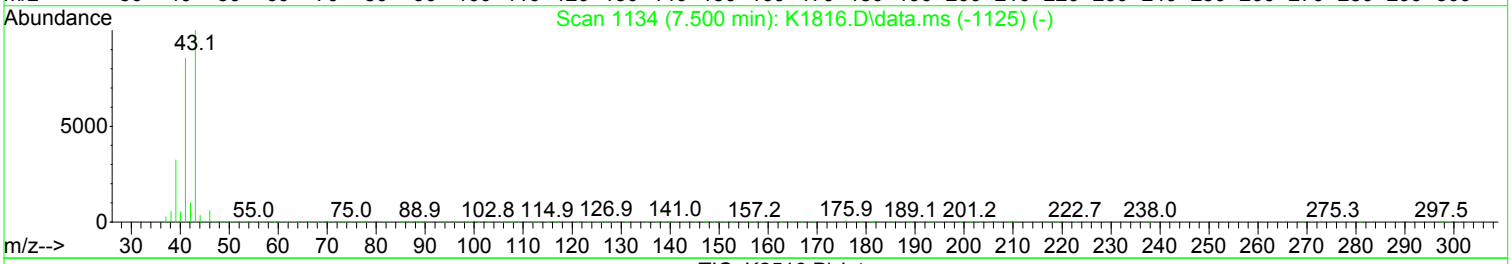
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2516.D
Acq On : 04 Jun 2024 03:07 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 09:53:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2516.D\data.ms

(61) 2-Nitropropane

7.507min (+ 0.006) 1.09 ug/L m

response 1139

Ion	Exp%	Act%
41.10	100.00	100.00
43.10	117.40	101.16
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

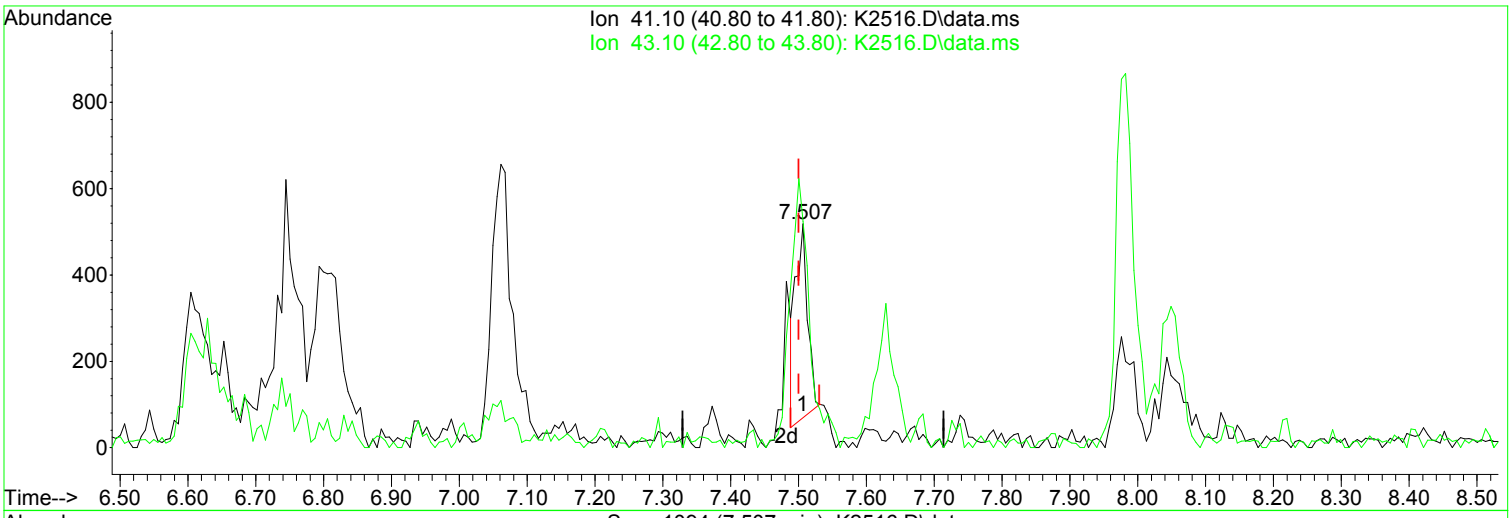
Split Peak.

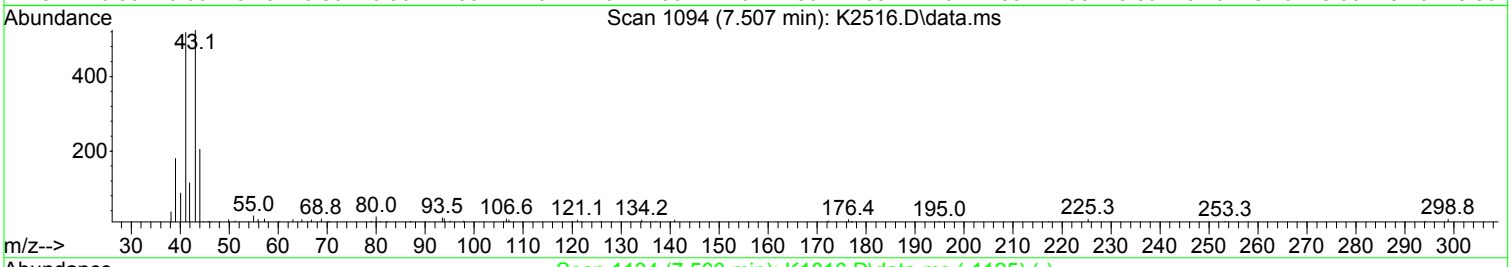
06/05/24

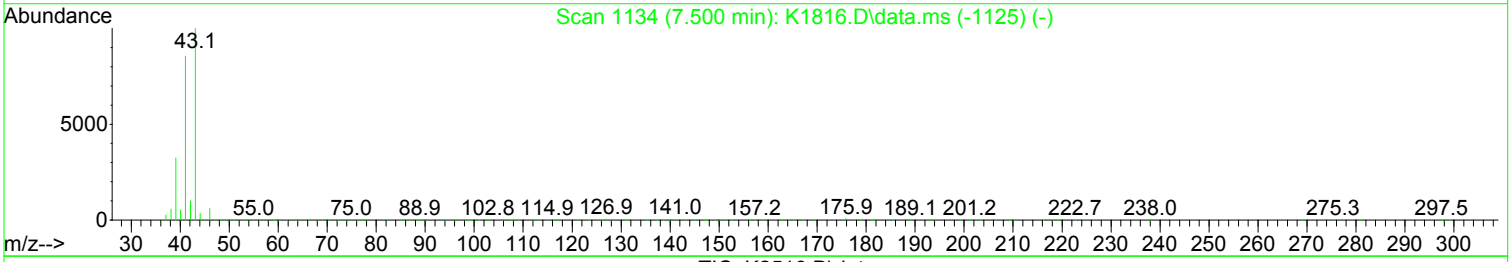
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2516.D
Acq On : 04 Jun 2024 03:07 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 09:53:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2516.D\data.ms

(61) 2-Nitropropane

7.507min (+ 0.006) 0.53 ug/L

response 559

Ion	Exp%	Act%
41.10	100.00	100.00
43.10	117.40	101.16
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

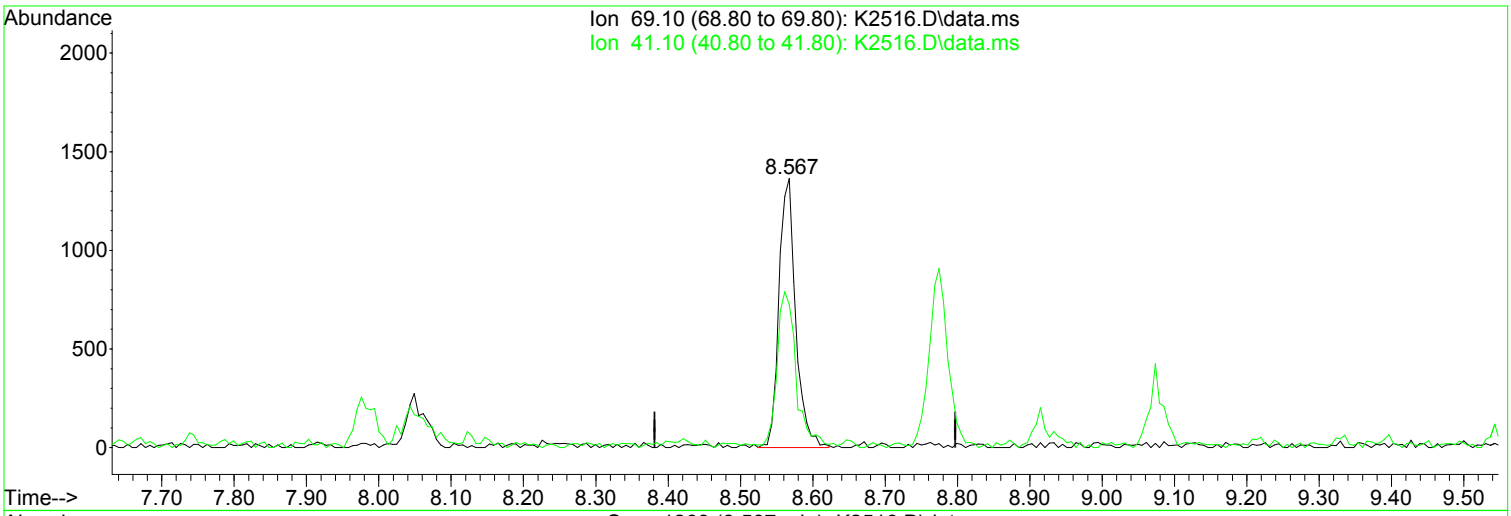
Before

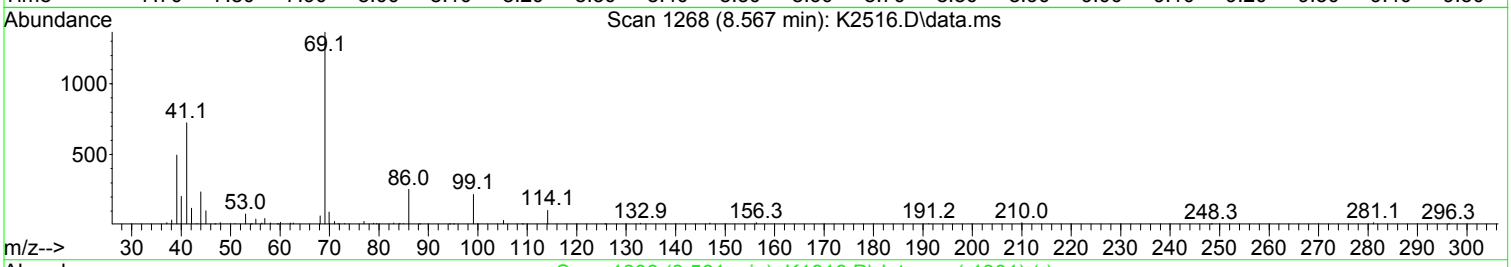
06/05/24

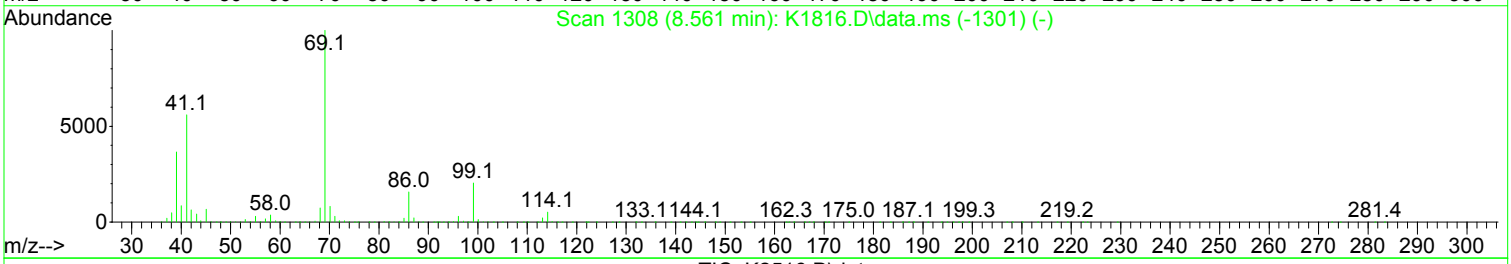
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2516.D
Acq On : 04 Jun 2024 03:07 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 09:53:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2516.D\data.ms

(68) Ethyl Methacrylate

8.567min (+ 0.006) 0.51 ug/L m

response 2186

Ion	Exp%	Act%
69.10	100.00	100.00
41.10	56.00	53.15
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

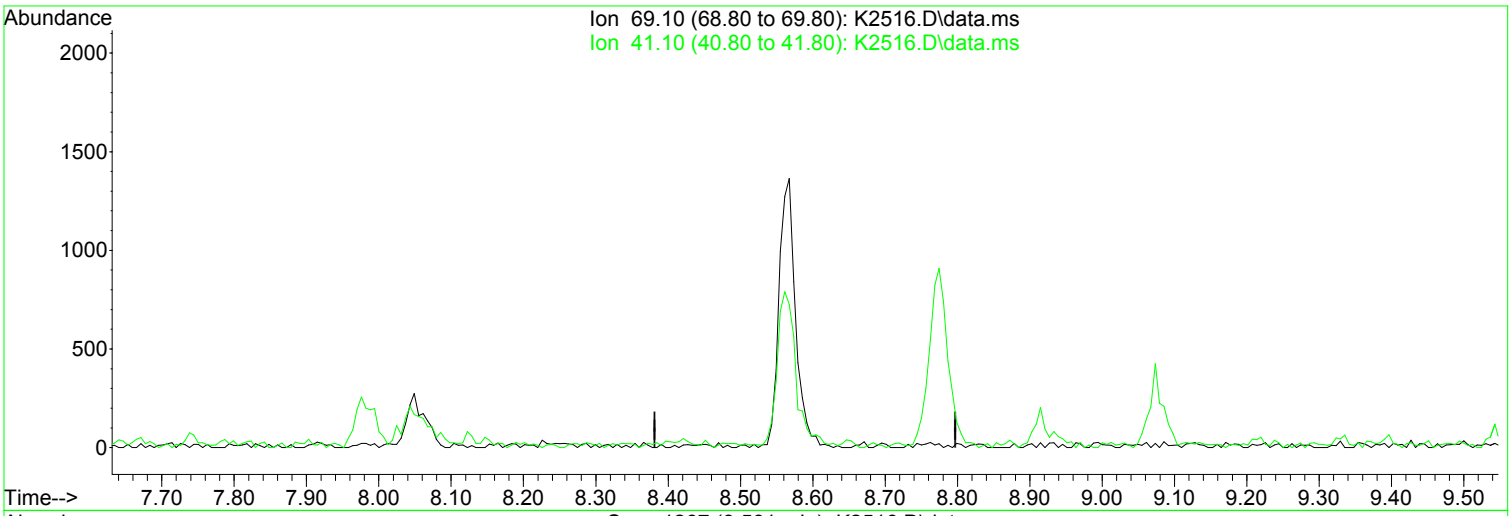
Peak not found.

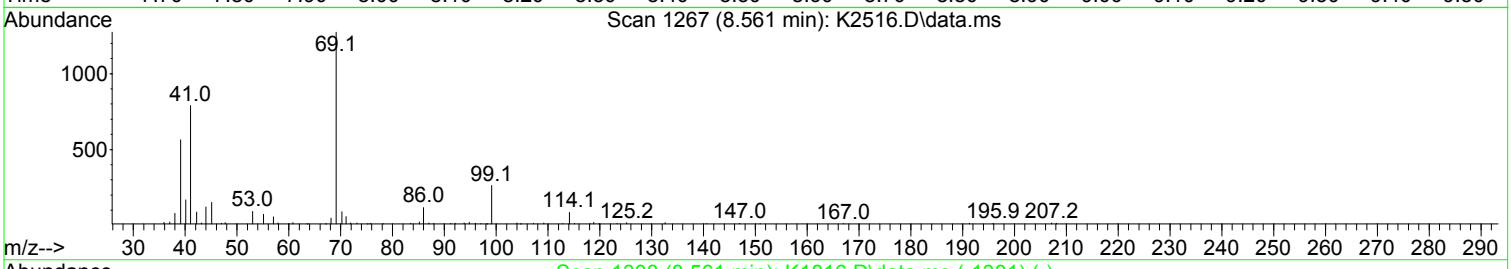
06/05/24

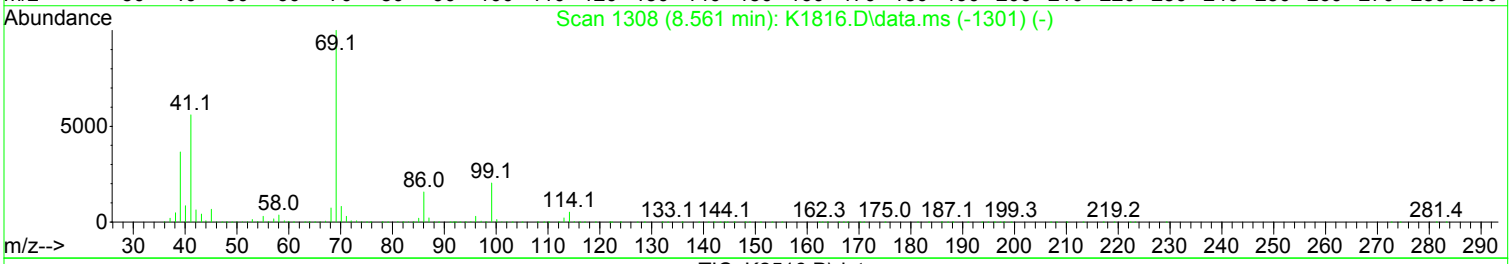
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2516.D
Acq On : 04 Jun 2024 03:07 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 09:53:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2516.D\data.ms

(68) Ethyl Methacrylate

8.561min (-8.561) 0.00 ug/L

response 0

Ion	Exp%	Act%
69.10	100.00	0.00
41.10	56.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

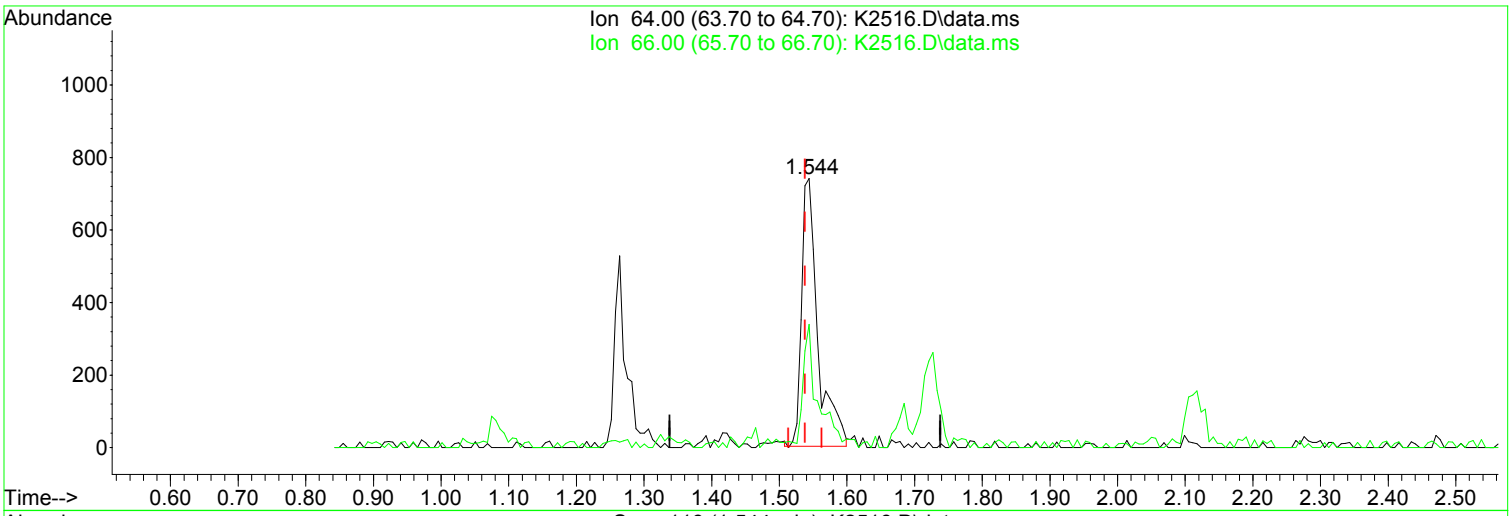
Before

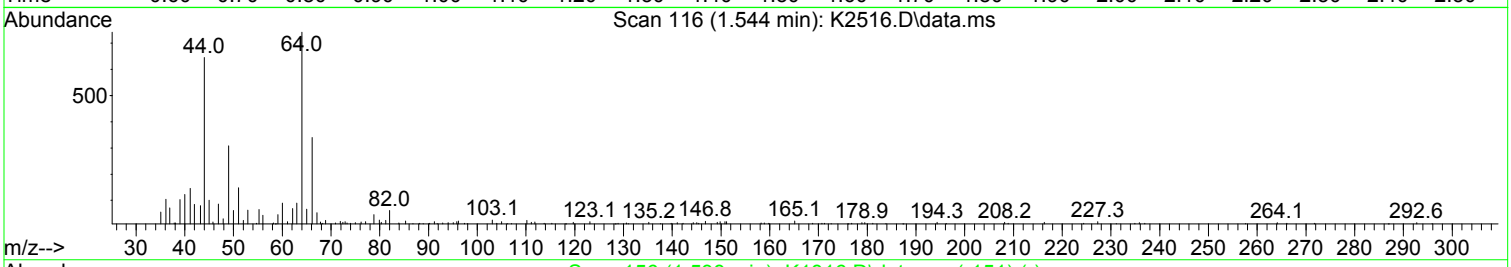
06/05/24

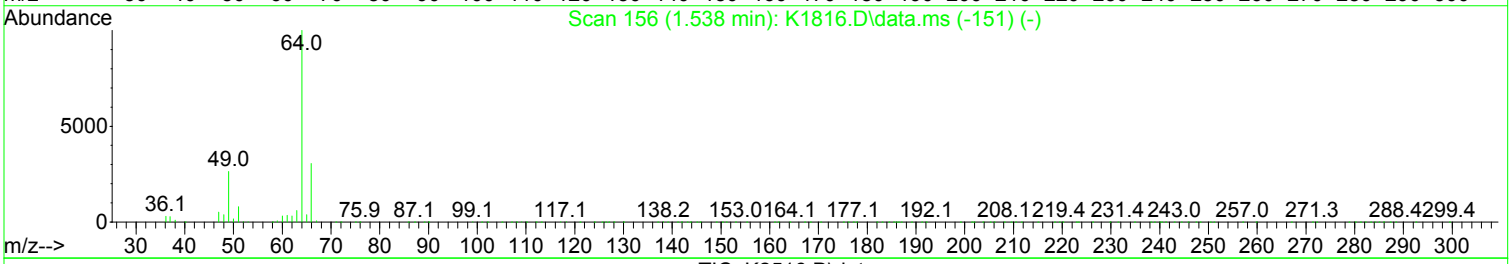
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2516.D
Acq On : 04 Jun 2024 03:07 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 09:53:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2516.D\data.ms

(7) Chloroethane (P)

1.544min (+ 0.006) 0.53 ug/L m

response 1236

Ion	Exp%	Act%
64.00	100.00	100.00
66.00	30.70	45.82
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

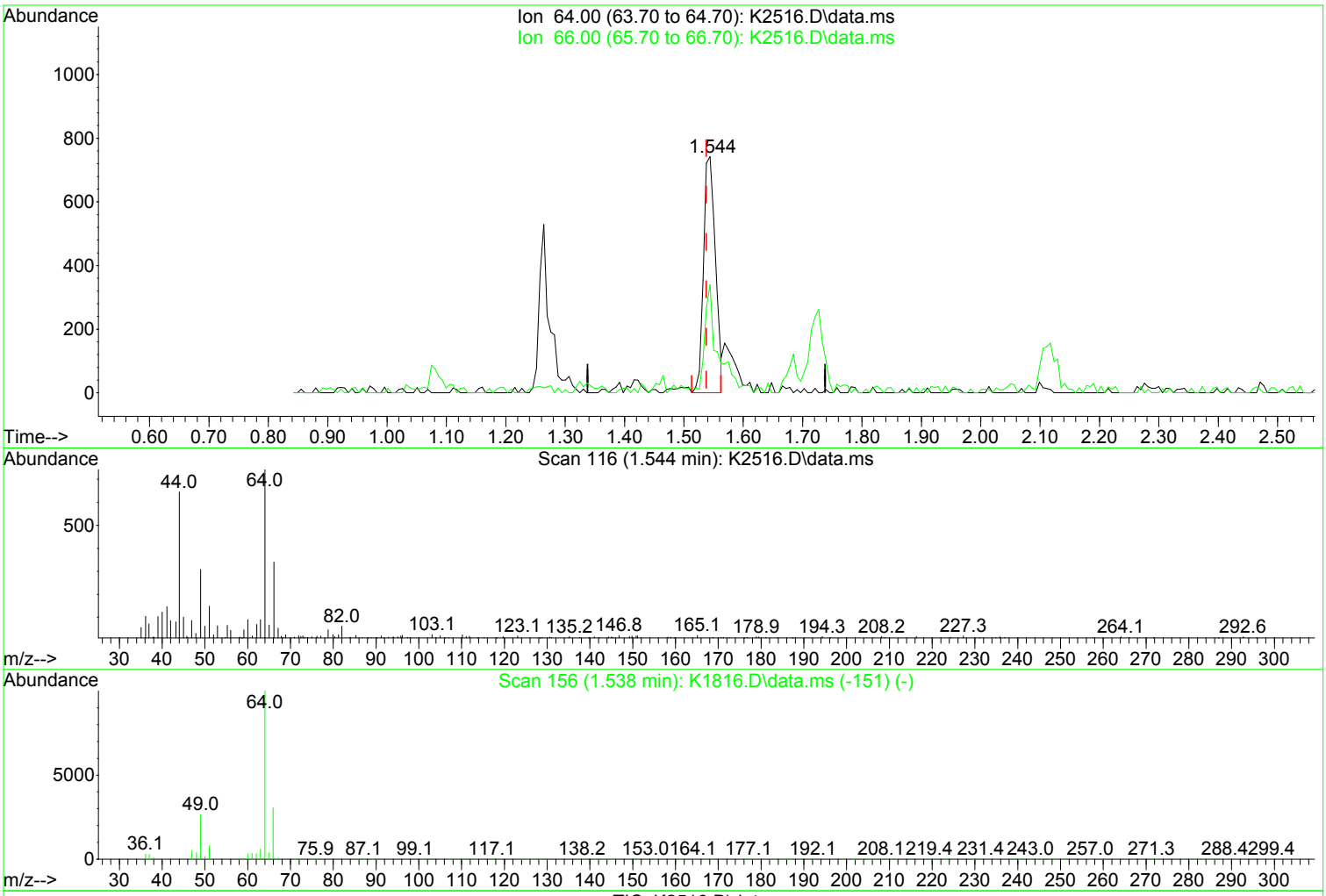
Split Peak.

06/05/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2516.D
Acq On : 04 Jun 2024 03:07 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 09:53:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration



TIC: K2516.D\data.ms

(7) Chloroethane (P)

1.544min (+ 0.006) 0.45 ug/L

response 1046

Ion	Exp%	Act%
64.00	100.00	100.00
66.00	30.70	45.82
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

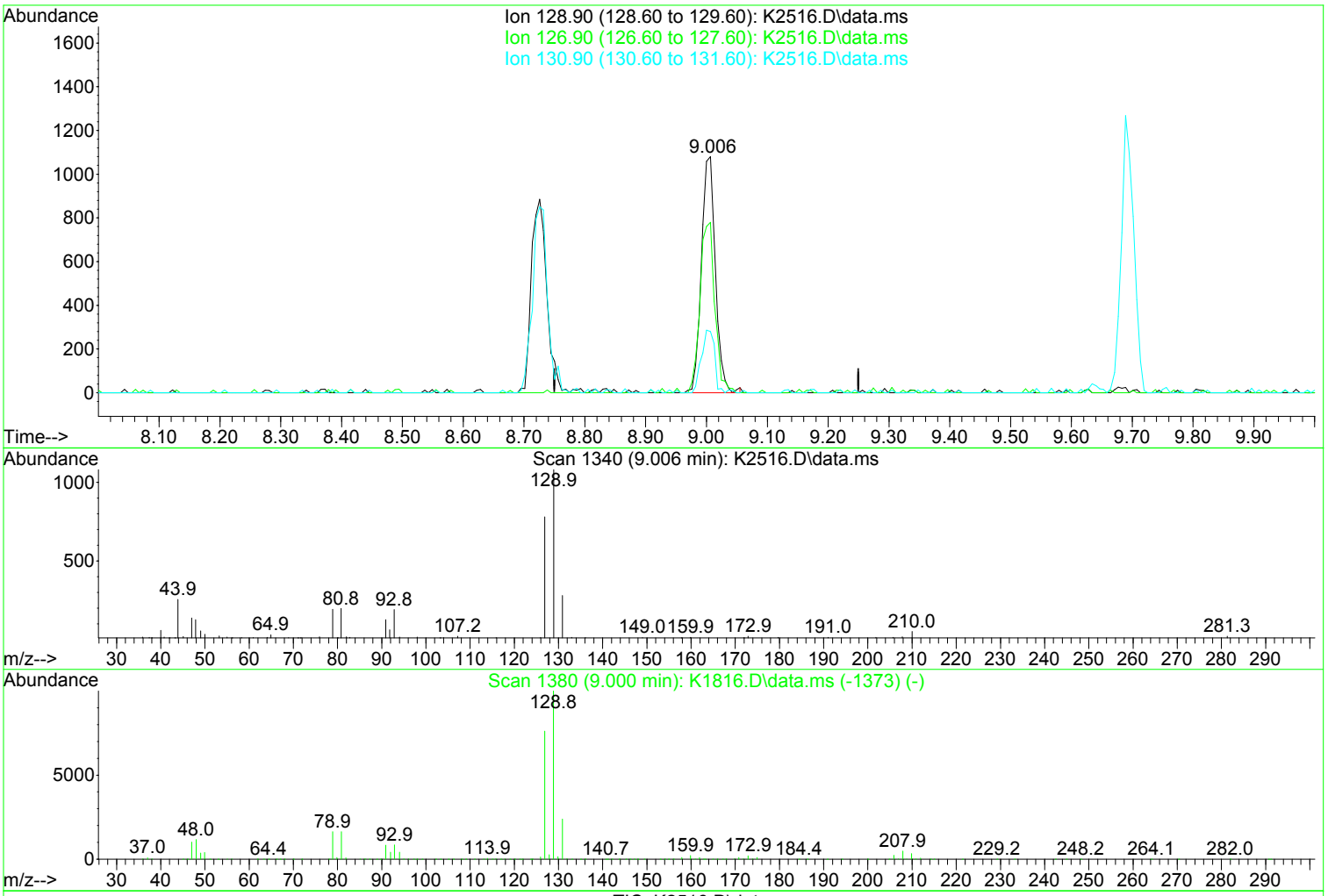
Before

06/05/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2516.D
Acq On : 04 Jun 2024 03:07 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 09:53:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration



TIC: K2516.D\data.ms

(75) Dibromochloromethane (P)

9.006min (+ 0.006) 0.44 ug/L m

response 1722

Ion	Exp%	Act%
128.90	100.00	100.00
126.90	76.10	72.22
130.90	23.90	25.93
0.00	0.00	0.00

Manual Integration:

After

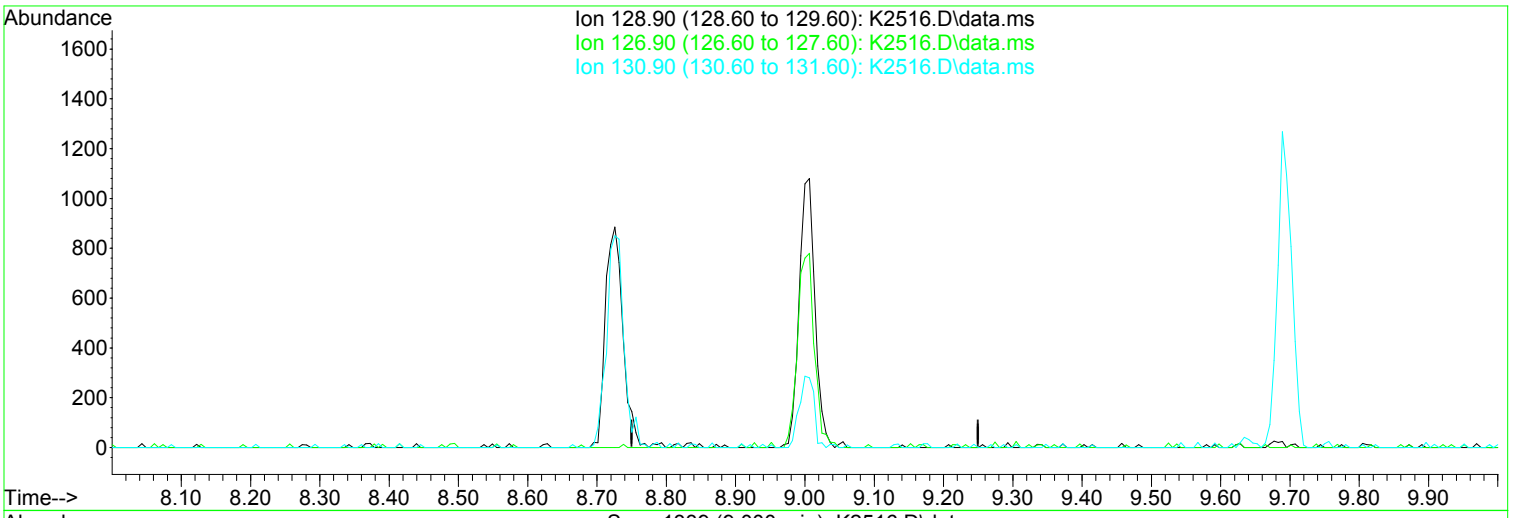
Peak not found.

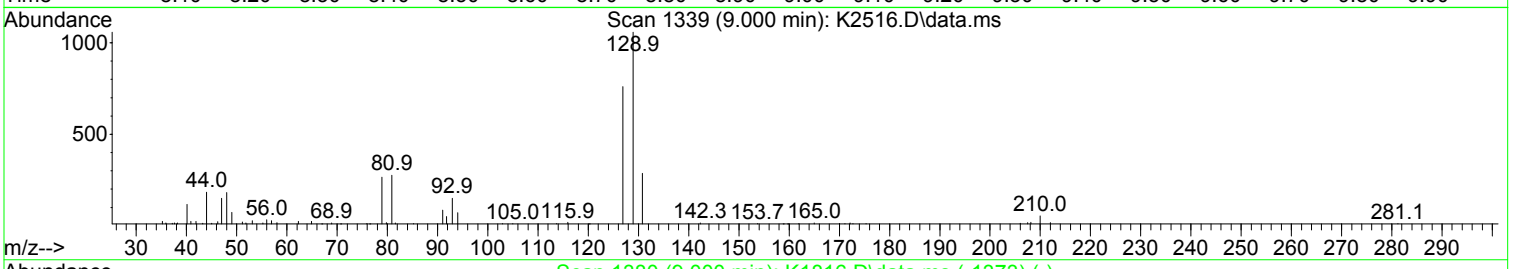
06/05/24

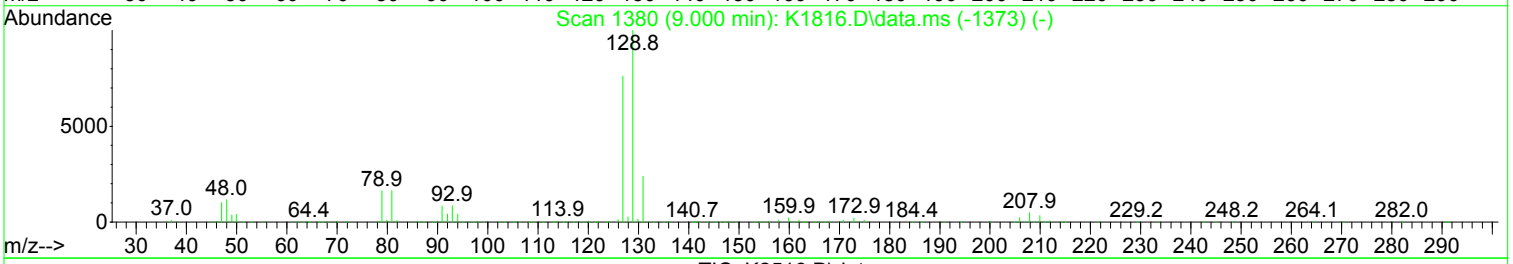
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2516.D
Acq On : 04 Jun 2024 03:07 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 09:53:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2516.D\data.ms

(75) Dibromochloromethane (P)

9.000min (-9.000) 0.00 ug/L

response 0

Ion	Exp%	Act%
128.90	100.00	0.00
126.90	76.10	0.00#
130.90	23.90	0.00#
0.00	0.00	0.00

Manual Integration:

Before

06/05/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2516.D
Acq On : 04 Jun 2024 03:07 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 09:53:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.989	168	388928	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.171	114	596710	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.573	117	513742	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	11.640	152	247759	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.830	113	40913	10.18	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 20.36%#				
48) surr1,1,2-dichloroetha...	5.422	65	50985	10.46	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 20.92%#				
65) SURR3,Toluene-d8	8.049	98	151137	10.85	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 21.70%#				
70) SURR2,BFB	10.665	95	57155	10.91	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 21.82%#				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.087	51	1896	0.591	ug/L		89
3) Dichlorodifluoromethane	1.075	85	2312	0.502	ug/L		89
4) Chloromethane	1.197	50	3038	0.697	ug/L		93
5) Vinyl Chloride	1.264	62	1991	0.511	ug/L		99
6) Bromomethane	1.471	94	1556	0.767	ug/L		90
7) Chloroethane	1.544	64	1236m	0.534	ug/L		
8) Freon 21	1.678	67	2820	0.509	ug/L		96
9) Trichlorofluoromethane	1.721	101	2761	0.519	ug/L		88
10) Diethyl Ether	1.934	59	1394	0.508	ug/L	#	78
11) Freon 123a	1.947	67	1884	0.579	ug/L	#	74
12) Freon 123	1.989	83	2202	0.536	ug/L		93
13) Acrolein	2.032	56	1217	3.021	ug/L		87
14) 1,1-Diclethene	2.105	96	1772	0.596	ug/L	#	80
15) Freon 113	2.117	101	1661	0.540	ug/L		87
16) Acetone	2.154	43	1086	0.980	ug/L		80
17) 2-Propanol	2.282	45	2413m	10.849	ug/L		
18) Iodomethane	2.233	142	1402	0.588	ug/L		83
19) Carbon Disulfide	2.282	76	4591	0.558	ug/L		99
21) Allyl Chloride	2.404	76	736	0.481	ug/L	#	91
22) Methyl Acetate	2.440	43	1698	0.539	ug/L		93
23) Methylene Chloride	2.520	84	1684	0.532	ug/L	#	75
24) TBA	2.654	59	4585	9.998	ug/L		97
25) Acrylonitrile	2.764	53	3555	2.603	ug/L	#	76
26) Methyl-t-Butyl Ether	2.806	73	5456	0.552	ug/L		95
27) trans-1,2-Dichloroethene	2.788	96	1669	0.532	ug/L	#	77
28) 1,1-Diclethane	3.245	63	3217	0.551	ug/L		84
30) DIPE	3.361	45	4306	0.517	ug/L		83
31) 2-Chloro-1,3-Butadiene	3.355	53	2471	0.500	ug/L		81
32) ETBE	3.843	59	5346m	0.504	ug/L		
33) 2,2-Dichloropropane	4.013	77	2760m	0.597	ug/L		
34) cis-1,2-Dichloroethene	4.019	96	1930m	0.581	ug/L		
36) Propionitrile	4.166	54	1376	2.444	ug/L		81
37) Bromochloromethane	4.385	130	1287m	0.577	ug/L		
38) Methacrylonitrile	4.403	67	766	0.514	ug/L	#	72
40) Chloroform	4.556	83	3049	0.533	ug/L		82
41) 1,1,1-Trichloroethane	4.842	97	2792	0.513	ug/L		81
42) TAME	5.775	73	4444	0.478	ug/L		94
44) Cyclohexane	4.916	41	1323m	0.528	ug/L		
46) Carbontetrachloride	5.135	117	3831	0.691	ug/L	#	54

1st 06/05/24
2nd 06/06/24

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2516.D
Acq On : 04 Jun 2024 03:07 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 09:53:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
47) 1,1-Dichloropropene	5.147	75	2776	0.656	ug/L		89
49) Benzene	5.489	78	5874	0.510	ug/L		73
50) 1,2-Dichloroethane	5.550	62	2829	0.532	ug/L		91
51) Iso-Butyl Alcohol	5.574	43	1160m	8.255	ug/L		
52) n-Heptane	6.019	43	2064	0.607	ug/L	#	71
53) 1-Butanol	6.610	56	1687m	16.620	ug/L		
54) Trichloroethene	6.513	130	1840	0.491	ug/L		88
55) Methylcyclohexane	6.744	55	2439	0.577	ug/L		90
56) 1,2-Diclpropane	6.812	63	1825	0.557	ug/L		82
57) Dibromomethane	6.946	93	1206	0.535	ug/L		85
58) 1,4-Dioxane	7.043	88	438	8.573	ug/L		87
59) Methyl Methacrylate	7.055	69	945	0.419	ug/L	#	74
60) Bromodichloromethane	7.190	83	2303	0.507	ug/L		94
61) 2-Nitropropane	7.507	41	1139m	1.089	ug/L		
62) 2-Chloroethylvinyl Ether	7.628	63	1042	0.471	ug/L		96
63) cis-1,3-Dichloropropene	7.757	75	2349	0.491	ug/L		88
64) 4-Methyl-2-pentanone	7.982	43	1611	0.516	ug/L		83
66) Toluene	8.128	91	7072	0.534	ug/L		96
67) trans-1,3-Dichloropropene	8.409	75	2118	0.473	ug/L		91
68) Ethyl Methacrylate	8.567	69	2186m	0.508	ug/L		
69) 1,1,2-Trichloroethane	8.598	97	1603	0.505	ug/L		88
72) Tetrachloroethene	8.726	164	1519	0.539	ug/L	#	92
73) 2-Hexanone	8.915	43	1179	0.546	ug/L		82
74) 1,3-Dichloropropane	8.775	76	2575	0.534	ug/L		90
75) Dibromochloromethane	9.006	129	1722m	0.443	ug/L		
76) N-Butyl Acetate	9.073	43	2164	0.467	ug/L		94
77) 1,2-Dibromoethane	9.092	107	1613	0.525	ug/L		98
78) 3-Chlorobenzotrifluoride	9.634	180	2811	0.548	ug/L		97
79) Chlorobenzene	9.604	112	5344	0.584	ug/L		89
80) 4-Chlorobenzotrifluoride	9.689	180	2678	0.578	ug/L		93
81) 1,1,1,2-Tetrachloroethane	9.689	131	1808	0.493	ug/L		91
82) Ethylbenzene	9.726	106	2723	0.567	ug/L		96
83) (m+p)Xylene	9.841	106	6133	1.055	ug/L		98
84) o-Xylene	10.201	106	3086	0.534	ug/L	#	86
85) Styrene	10.213	104	4918	0.517	ug/L		99
86) Bromoform	10.366	173	973	0.426	ug/L		99
87) 2-Chlorobenzotrifluoride	10.457	180	2644	0.537	ug/L		94
88) Isopropylbenzene	10.543	105	7789	0.520	ug/L		93
89) Cyclohexanone	10.610	55	2389	7.188	ug/L		87
90) trans-1,4-Dichloro-2-B...	10.860	53	632	0.525	ug/L	#	51
92) 1,1,2,2-Tetrachloroethane	10.811	83	2143	0.547	ug/L		99
93) Bromobenzene	10.786	156	2051	0.543	ug/L		91
94) 1,2,3-Trichloropropane	10.835	110	748	0.520	ug/L	#	86
95) n-Propylbenzene	10.902	91	9009	0.568	ug/L		97
96) 2-Chlorotoluene	10.957	91	5398	0.553	ug/L		94
97) 3-Chlorotoluene	11.012	91	5480	0.519	ug/L		98
98) 4-Chlorotoluene	11.055	91	6424	0.568	ug/L		95
99) 1,3,5-Trimethylbenzene	11.055	105	6835	0.550	ug/L		98
100) tert-Butylbenzene	11.329	119	6014	0.551	ug/L		91
101) 1,2,4-Trimethylbenzene	11.366	105	6493	0.522	ug/L		97
102) 3,4-Dichlorobenzotrifl...	11.433	214	1949	0.558	ug/L		87
103) sec-Butylbenzene	11.512	105	8127	0.541	ug/L		92
104) p-Isopropyltoluene	11.634	119	6874	0.523	ug/L		92
105) 1,3-Dclbenz	11.585	146	4240	0.580	ug/L		97
106) 1,4-Dclbenz	11.664	146	4385	0.591	ug/L		97
107) 2,4-Dichlorobenzotrifl...	11.719	214	1684	0.550	ug/L		89

1st 06/05/24
2nd 06/06/24

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2516.D
Acq On : 04 Jun 2024 03:07 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 09:53:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

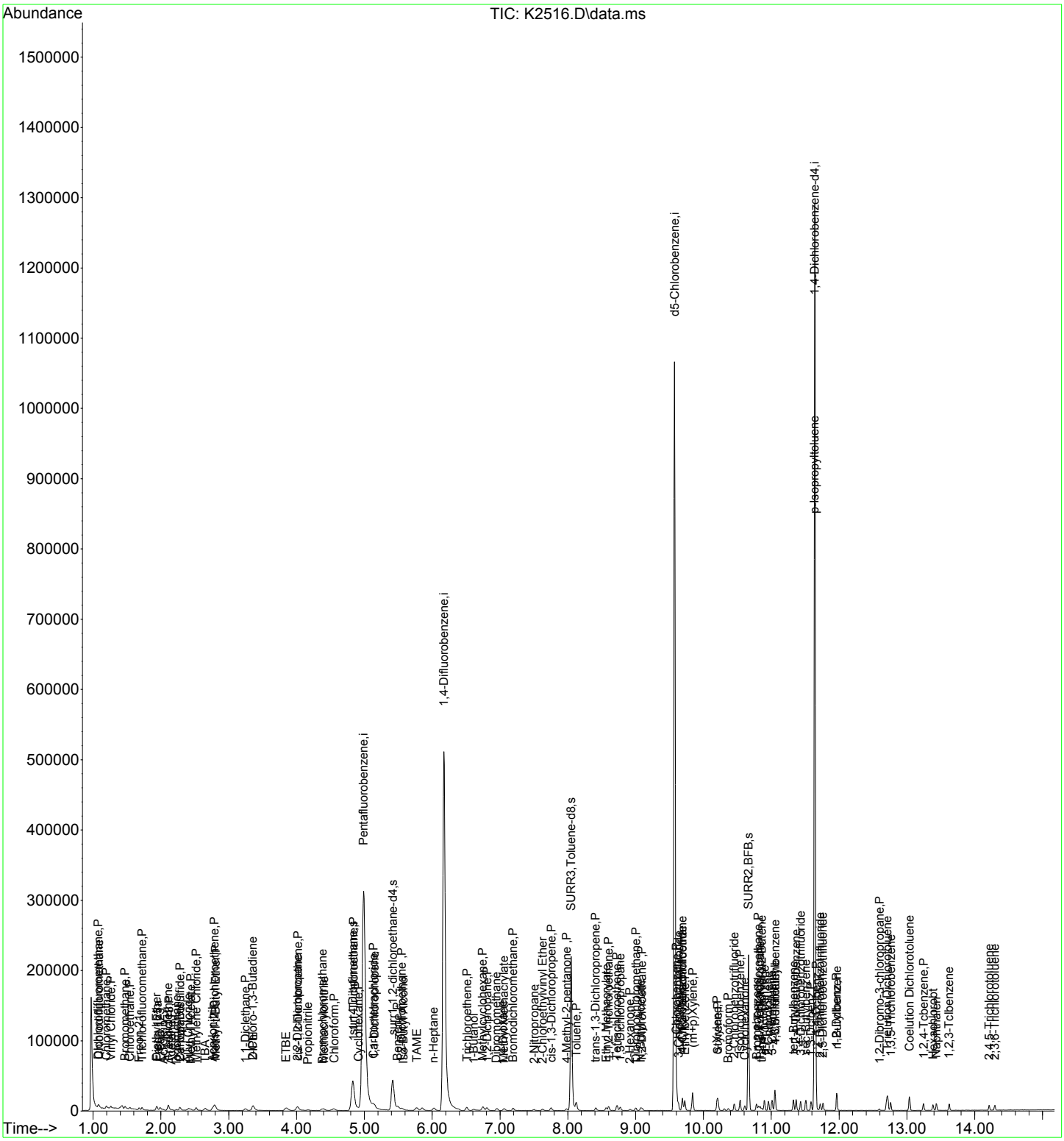
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 2,5-Dichlorobenzotrifl...	11.762	214	1916	0.559	ug/L	91
109) n-Butylbenzene	11.969	91	5910	0.536	ug/L	98
110) 1,2-Dclbenz	11.963	146	4061	0.570	ug/L	98
111) 1,2-Dibromo-3-chloropr...	12.597	157	496	0.506	ug/L	85
112) Trielution Dichlorotol...	12.713	125	9948	1.535	ug/L	100
113) 1,3,5-Trichlorobenzene	12.762	180	2486	0.495	ug/L	93
114) Coelution Dichlorotoluene	13.036	125	6811	0.991	ug/L	94
115) 1,2,4-Tcbenzene	13.249	180	2198	0.478	ug/L	82
116) Hexachlorobt	13.384	225	1070	0.531	ug/L	97
117) Naphthalen	13.432	128	6126	0.460	ug/L	100
118) 1,2,3-Tclbenzene	13.621	180	2086	0.480	ug/L	94
119) 2,4,5-Trichlorotoluene	14.213	159	1682	0.500	ug/L	81
120) 2,3,6-Trichlorotoluene	14.298	159	1313	0.456	ug/L	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2516.D
Acq On : 04 Jun 2024 03:07 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

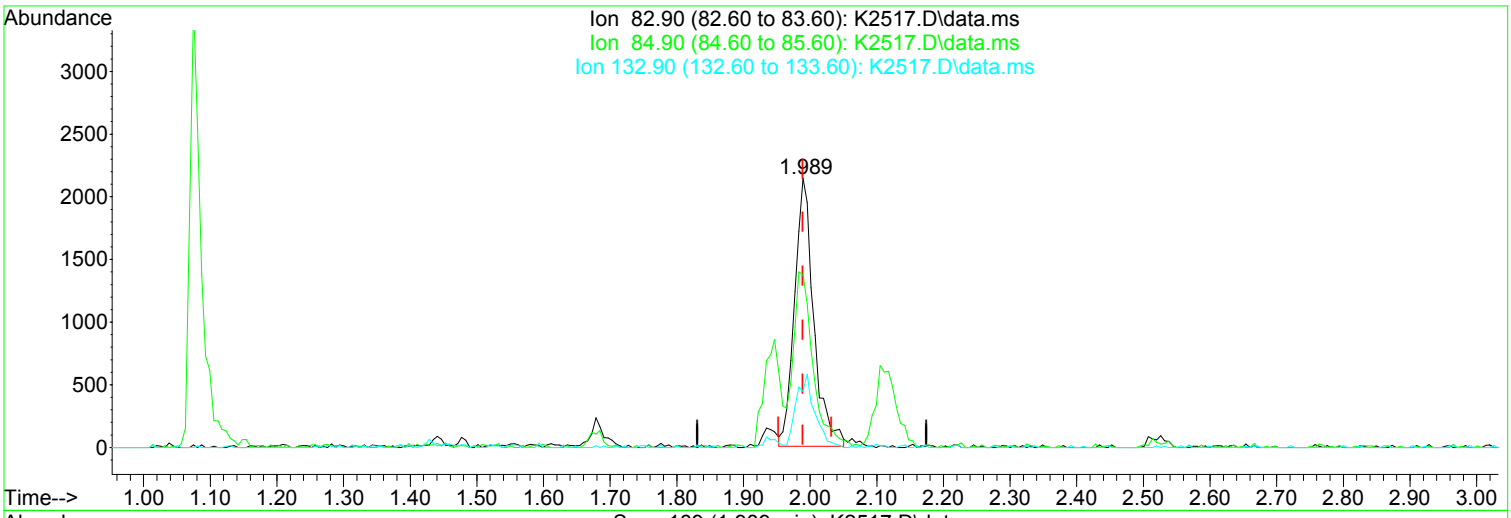
Quant Time: Jun 05 09:53:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

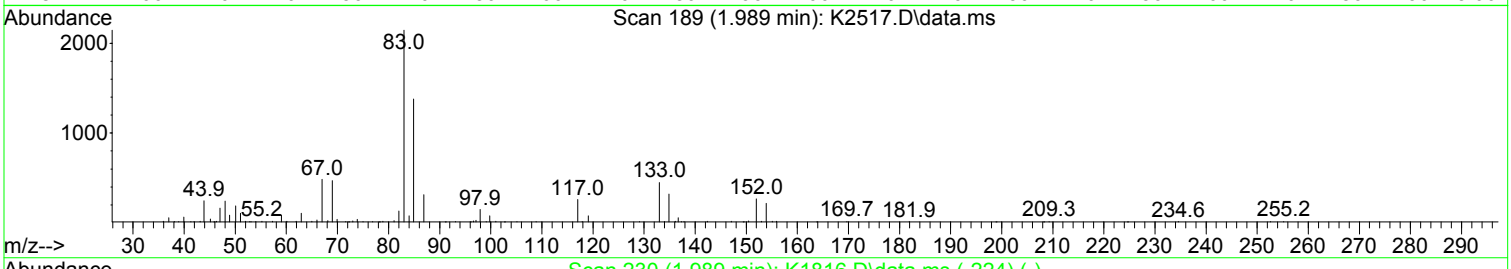


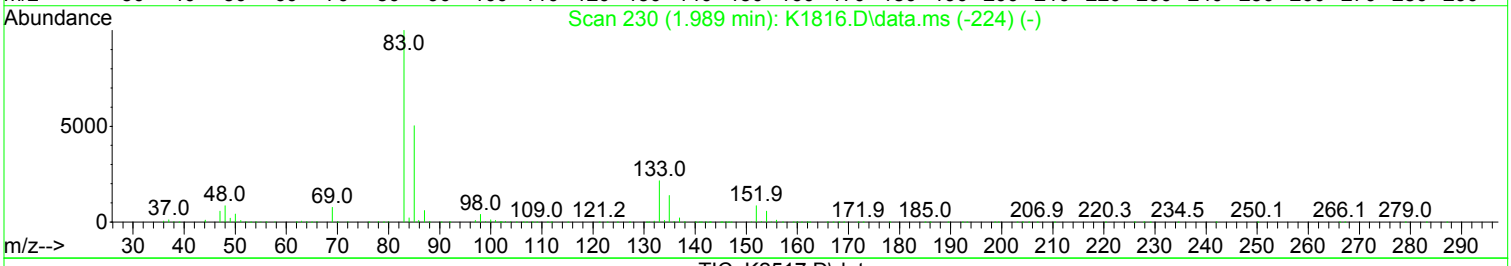
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2517.D
Acq On : 04 Jun 2024 03:30 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 05 09:53:58 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2517.D\data.ms

(12) Freon 123

1.989min (+ 0.000) 1.05 ug/L m

response 4285

Ion	Exp%	Act%
82.90	100.00	100.00
84.90	65.70	64.21
132.90	22.20	20.92
0.00	0.00	0.00

Manual Integration:

After

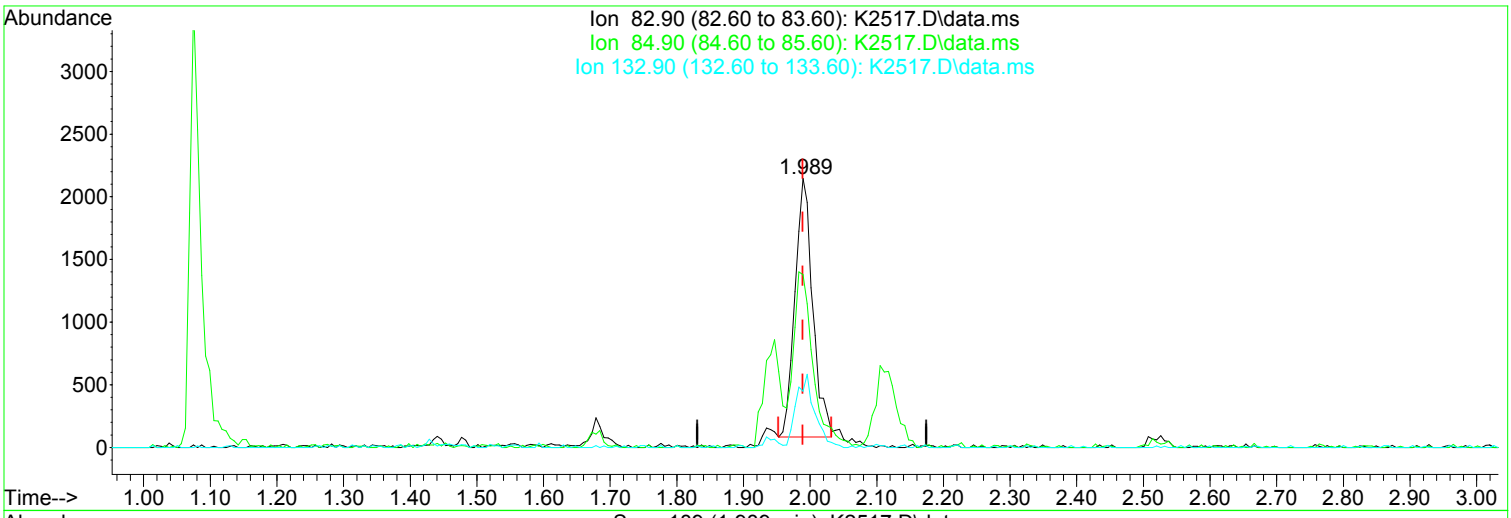
Poor integration.

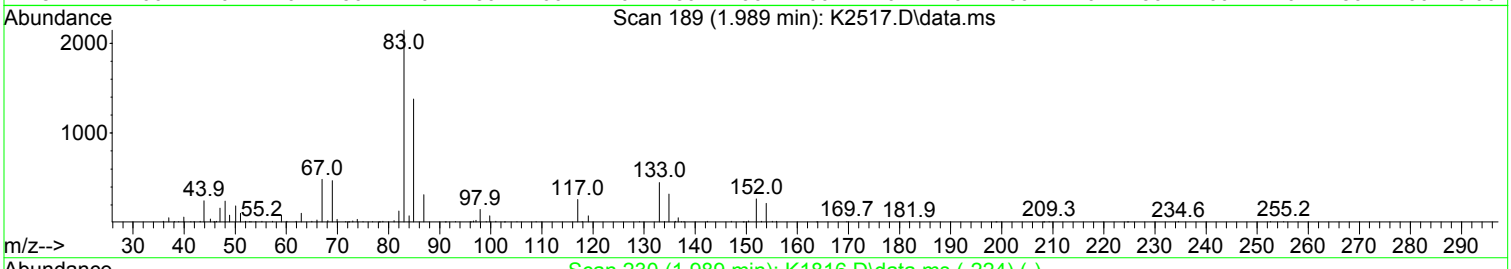
06/05/24

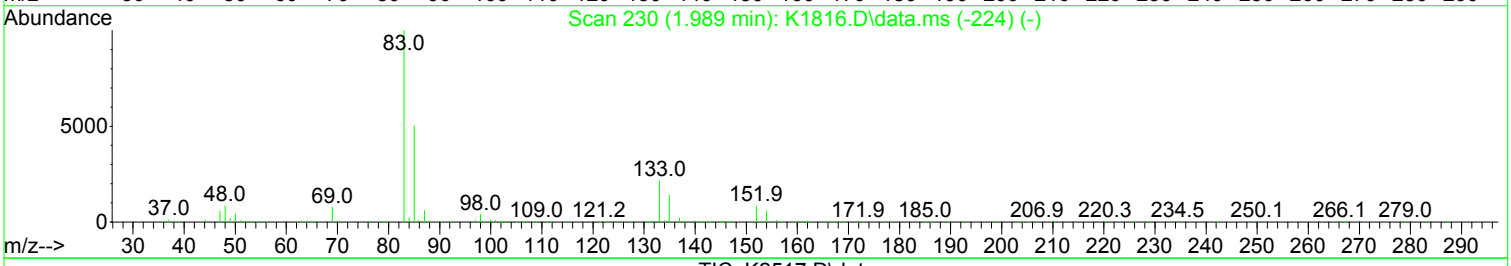
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2517.D
Acq On : 04 Jun 2024 03:30 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 05 09:53:58 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2517.D\data.ms

(12) Freon 123

1.989min (+ 0.000) 0.94 ug/L

response 3828

Ion	Exp%	Act%
82.90	100.00	100.00
84.90	65.70	64.21
132.90	22.20	20.92
0.00	0.00	0.00

Manual Integration:

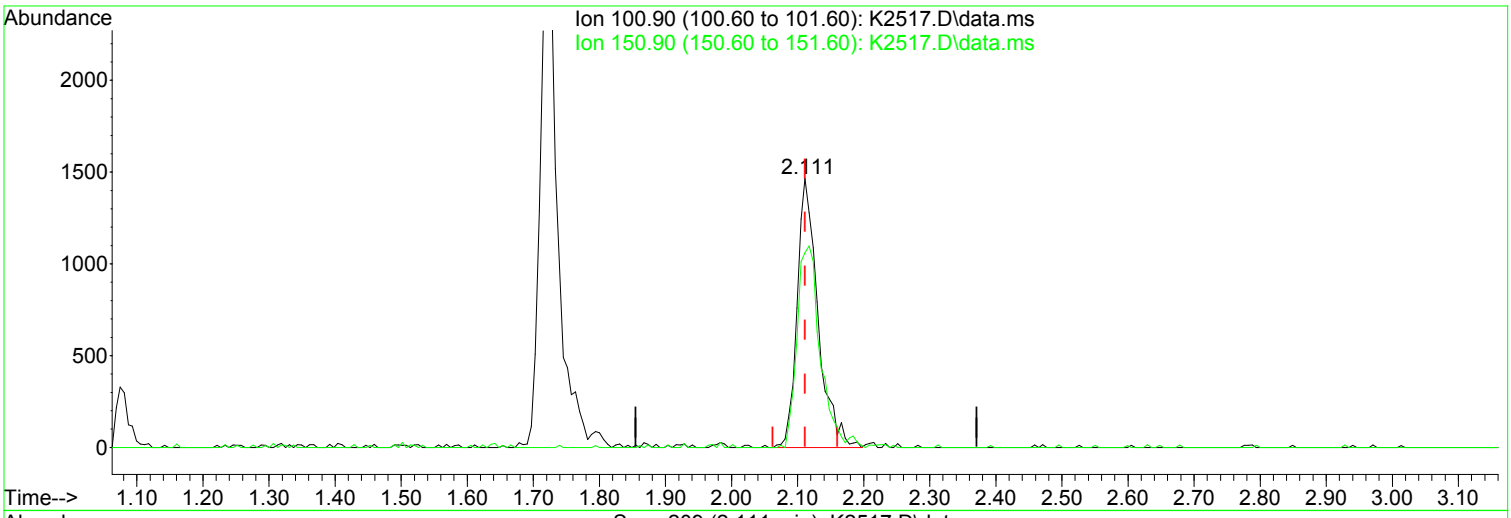
Before

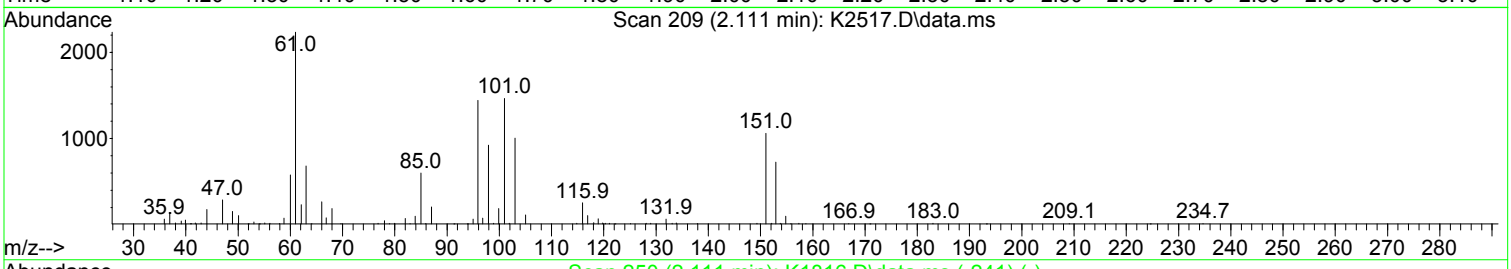
06/05/24

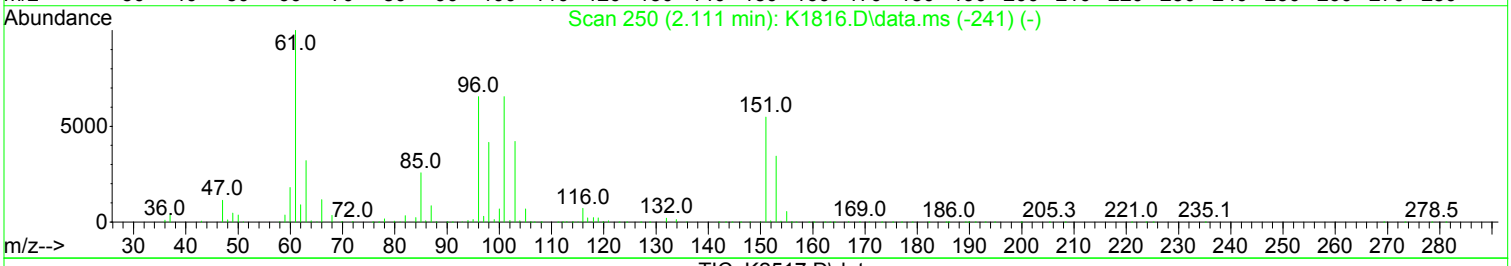
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2517.D
Acq On : 04 Jun 2024 03:30 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 05 09:53:58 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2517.D\data.ms

(15) Freon 113 (P)

2.111min (+ 0.000) 1.05 ug/L m

response 3221

Ion	Exp%	Act%
100.90	100.00	100.00
150.90	83.70	72.42
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

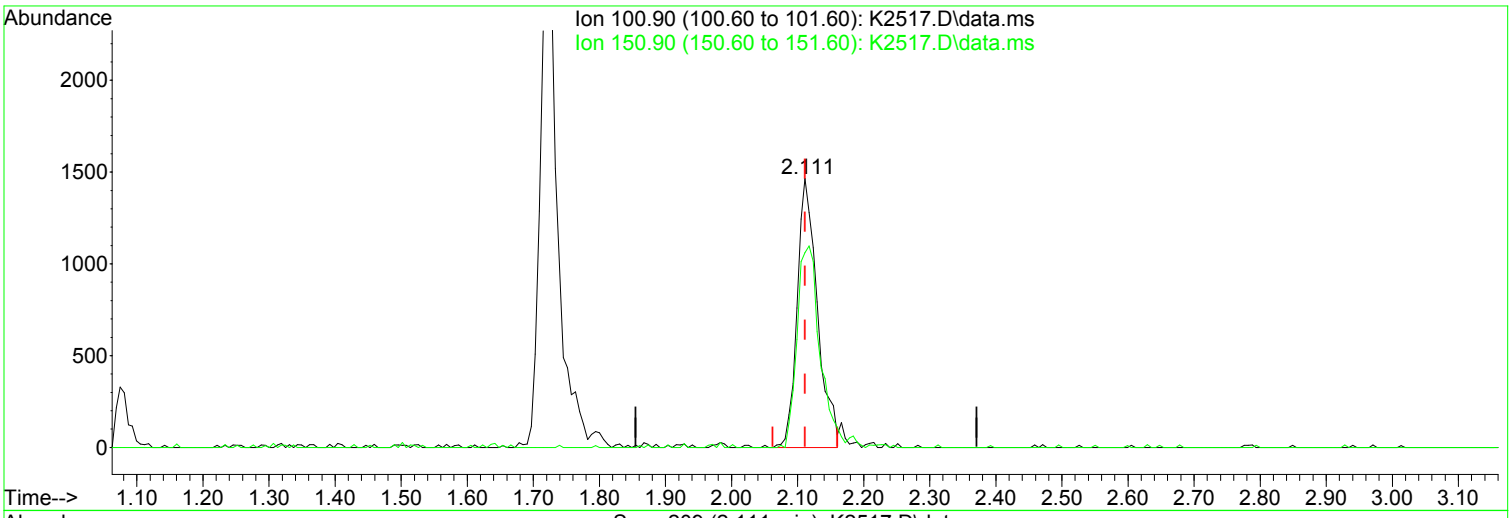
Poor integration.

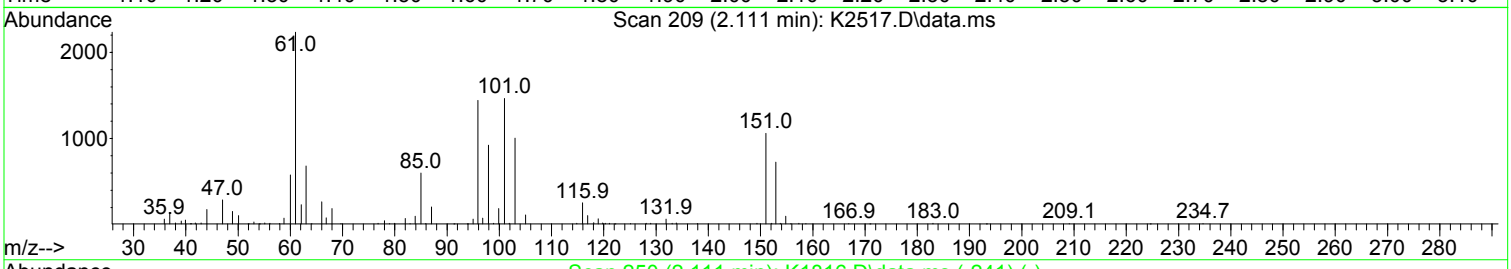
06/05/24

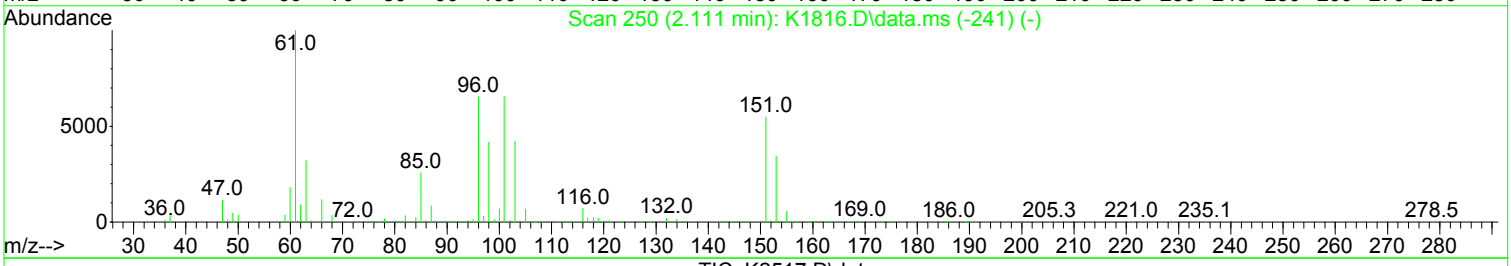
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2517.D
Acq On : 04 Jun 2024 03:30 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 05 09:53:58 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2517.D\data.ms

(15) Freon 113 (P)

2.111min (+ 0.000) 1.02 ug/L

response 3126

Ion	Exp%	Act%
100.90	100.00	100.00
150.90	83.70	72.42
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

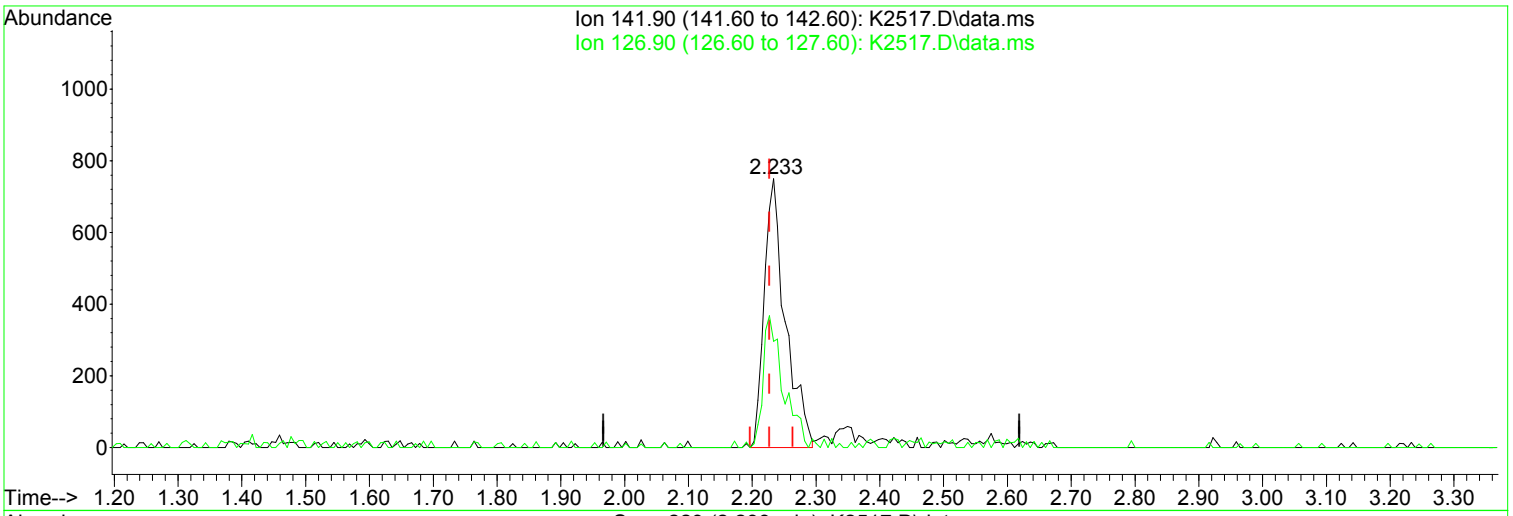
Before

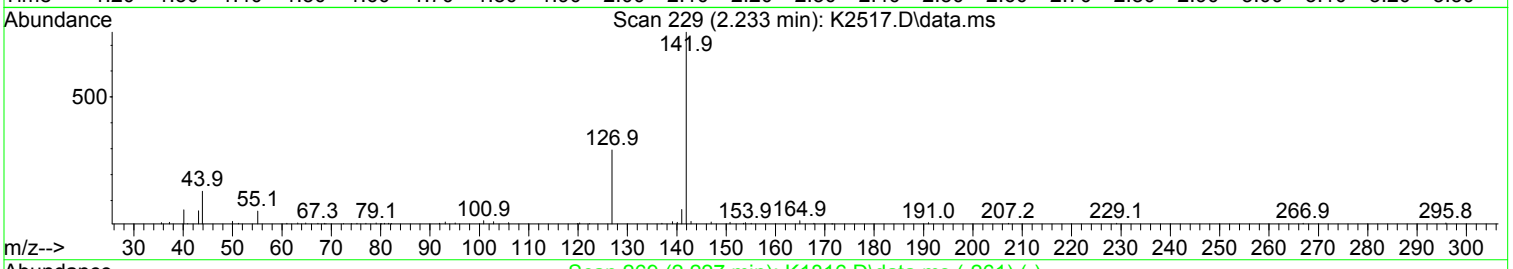
06/05/24

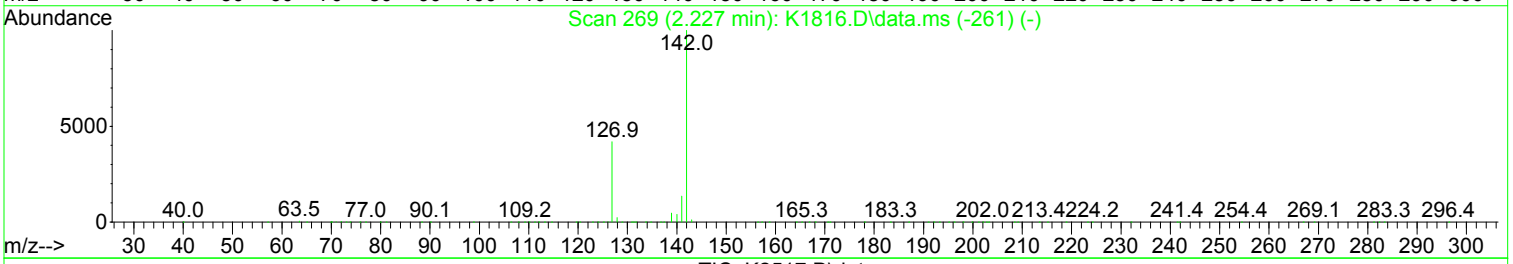
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2517.D
Acq On : 04 Jun 2024 03:30 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 05 09:53:58 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2517.D\data.ms

(18) Iodomethane

2.233min (+ 0.006) 0.73 ug/L m

response 1722

Ion	Exp%	Act%
141.90	100.00	100.00
126.90	41.90	39.47
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

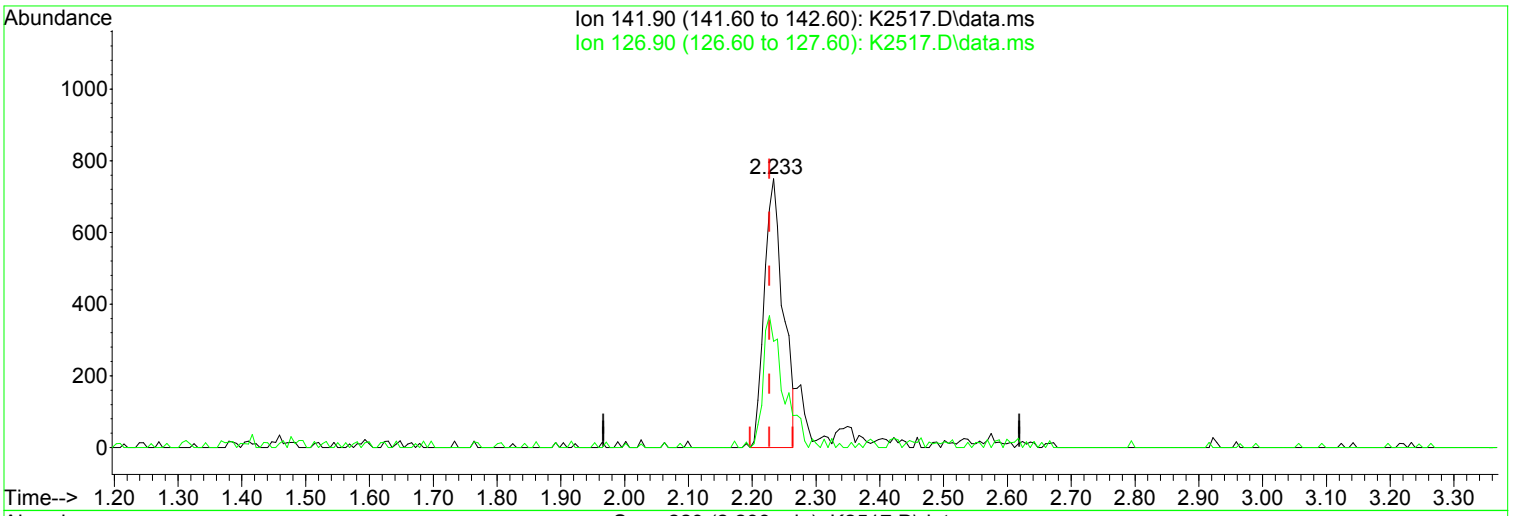
Poor integration.

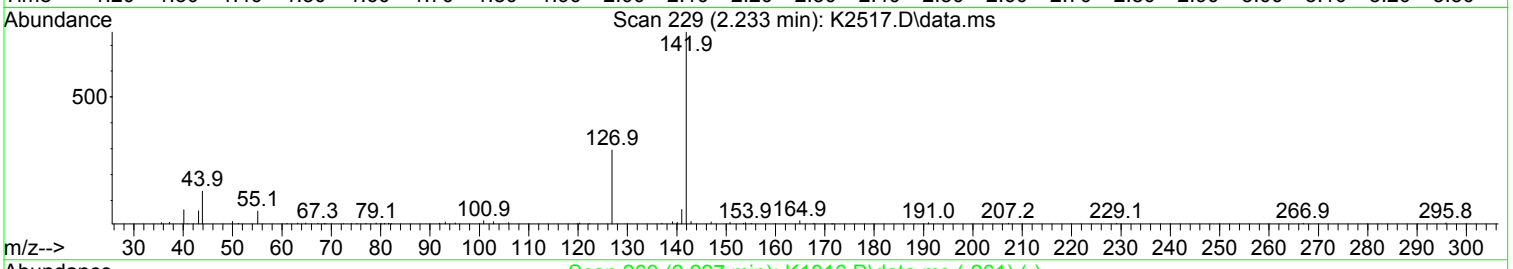
06/05/24

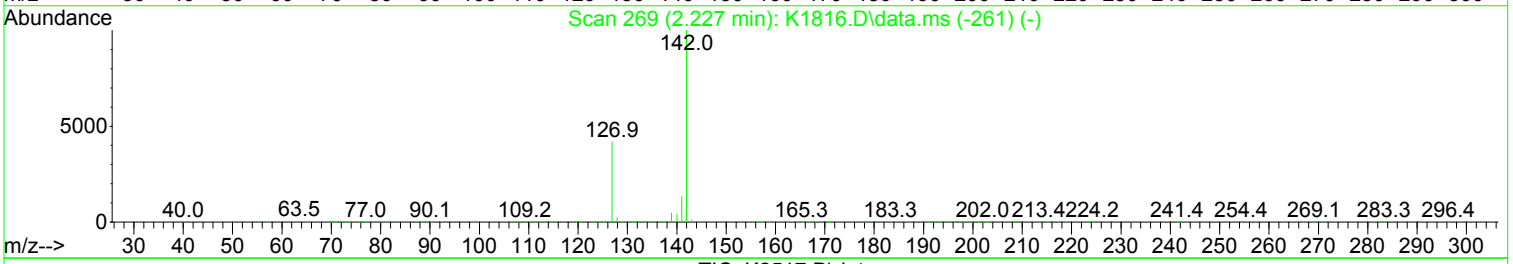
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2517.D
Acq On : 04 Jun 2024 03:30 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 05 09:53:58 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2517.D\data.ms

(18) Iodomethane

2.233min (+ 0.006) 0.65 ug/L

response 1537

Ion	Exp%	Act%
141.90	100.00	100.00
126.90	41.90	39.47
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

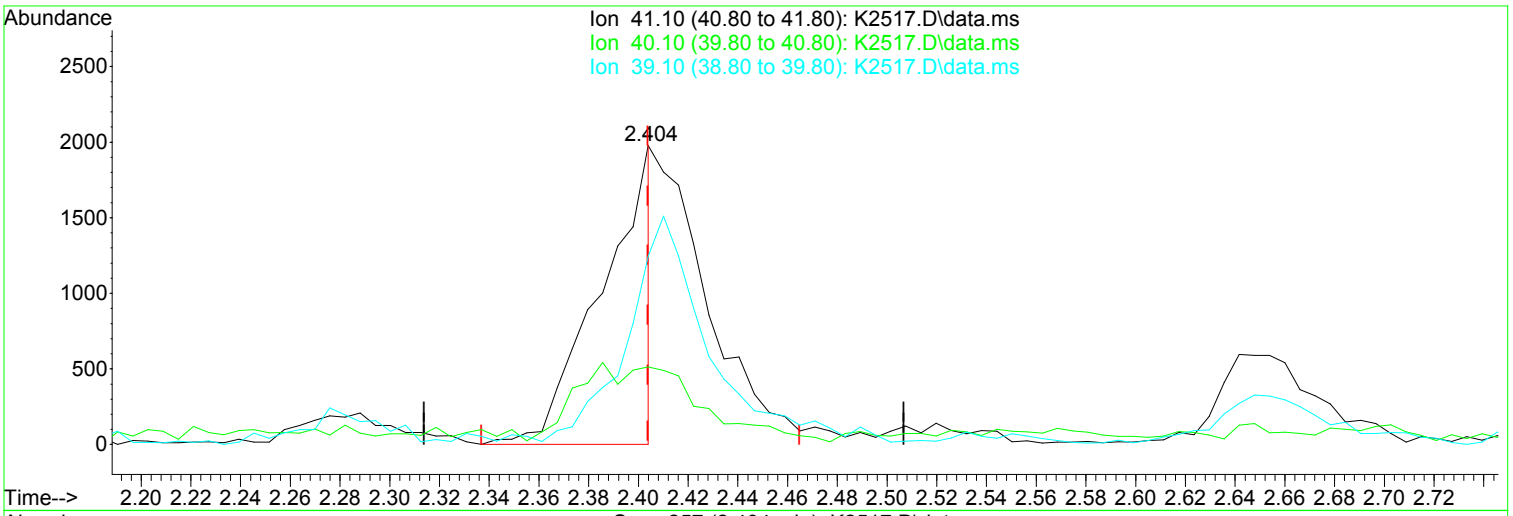
Before

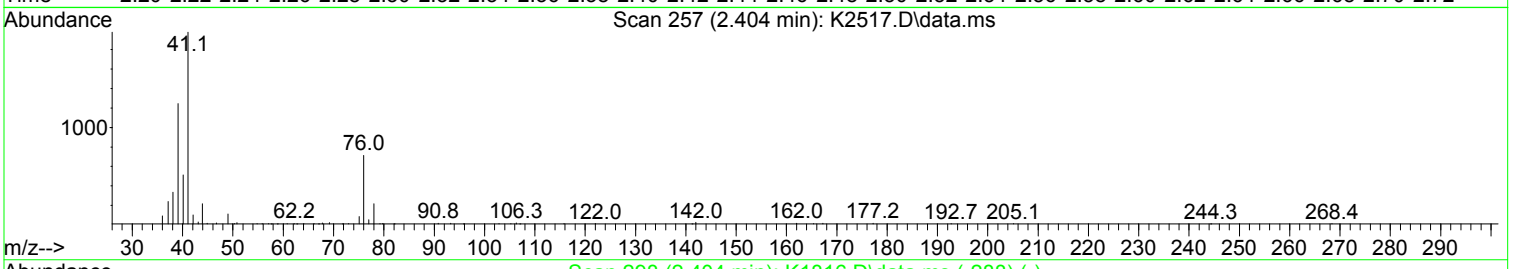
06/05/24

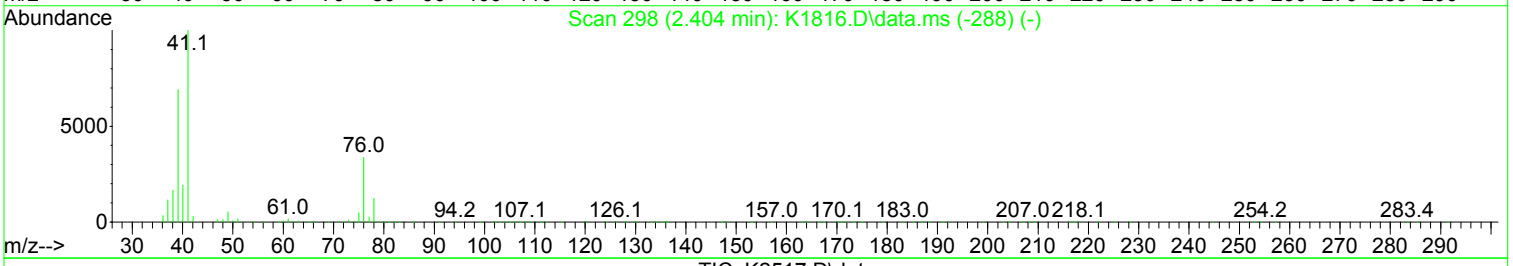
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2517.D
Acq On : 04 Jun 2024 03:30 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 05 09:53:58 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2517.D\data.ms

(20) Acetonitrile

2.404min (+ 0.000) 2.70 ug/L m

response 2877

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	19.40	25.94
39.10	69.50	62.89
0.00	0.00	0.00

Manual Integration:

After

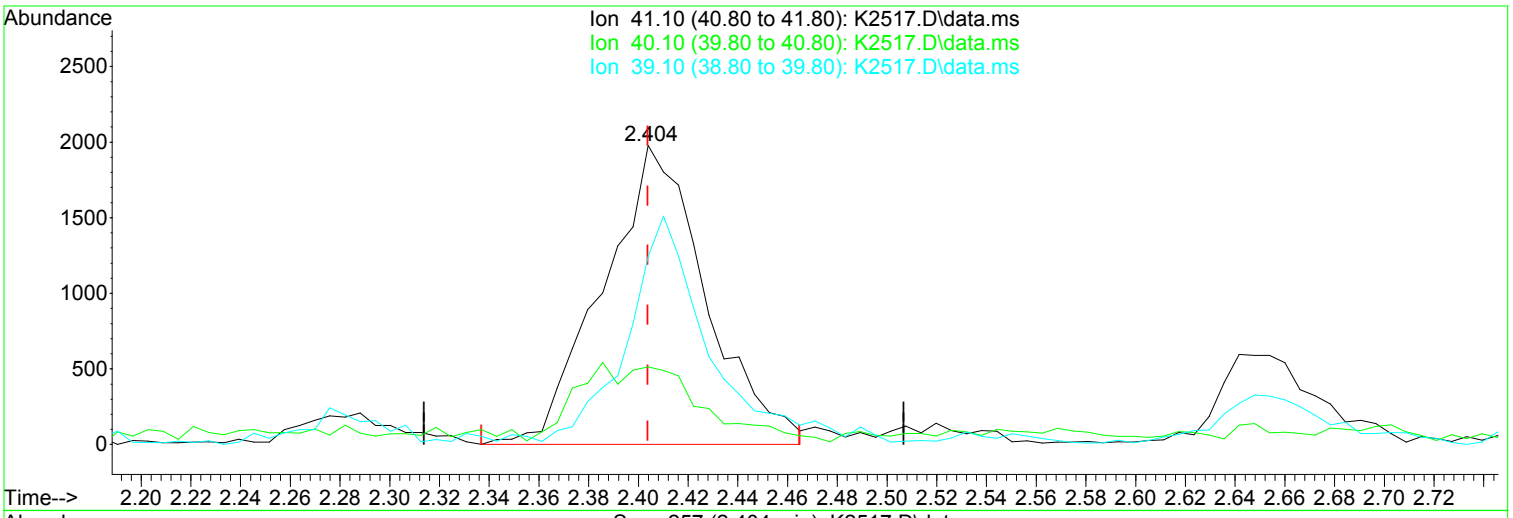
Poor integration.

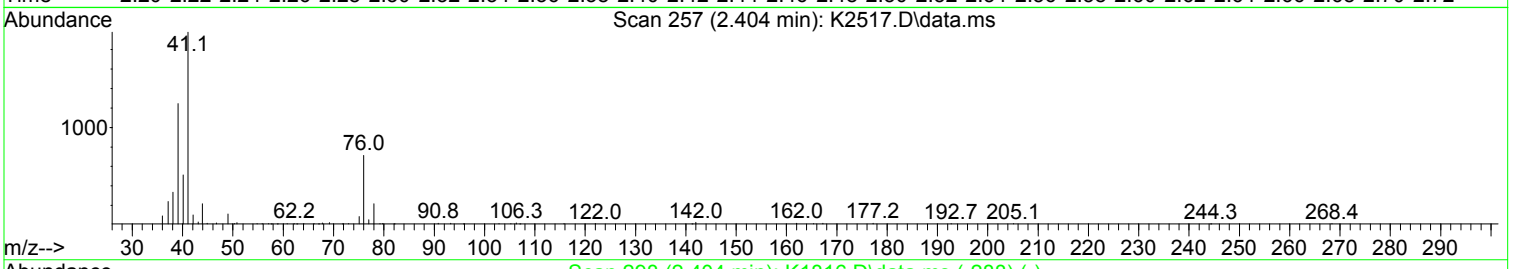
06/05/24

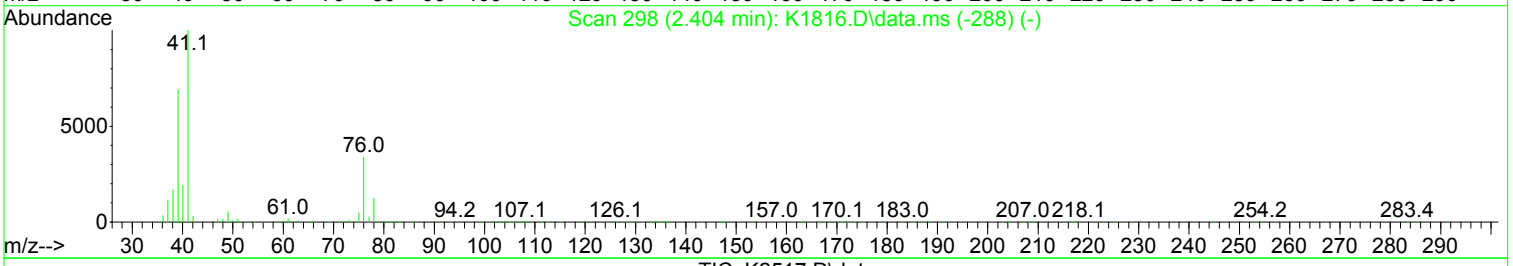
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2517.D
Acq On : 04 Jun 2024 03:30 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 05 09:53:58 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2517.D\data.ms

(20) Acetonitrile

2.404min (+ 0.000) 5.34 ug/L

response 5680

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	19.40	25.94
39.10	69.50	62.89
0.00	0.00	0.00

Manual Integration:

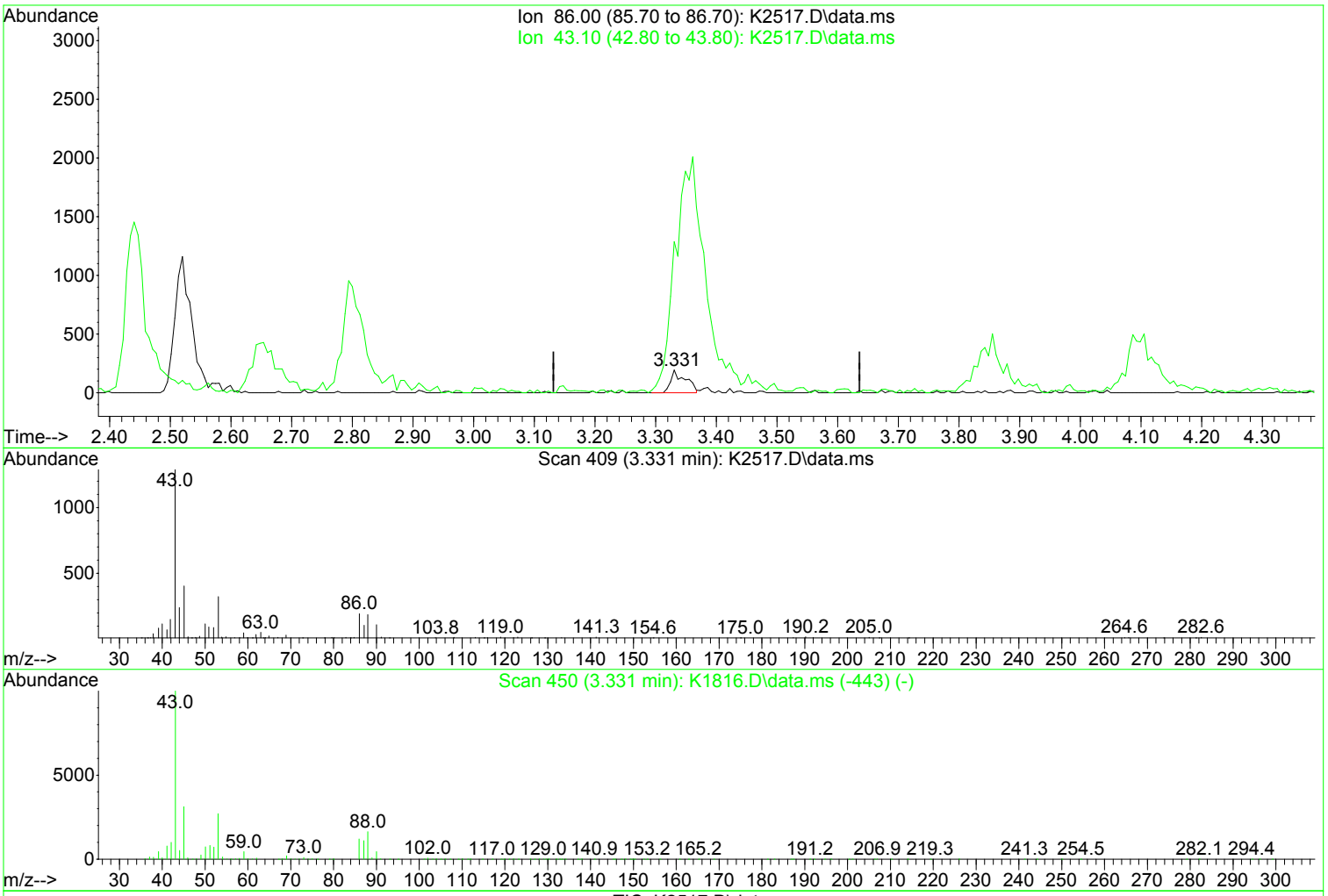
Before

06/05/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2517.D
Acq On : 04 Jun 2024 03:30 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 05 09:53:58 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration



TIC: K2517.D\data.ms

(29) Vinyl Acetate

3.331min (+ 0.000) 0.83 ug/L m

response 326

Ion	Exp%	Act%
86.00	100.00	100.00
43.10	837.10	663.40#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

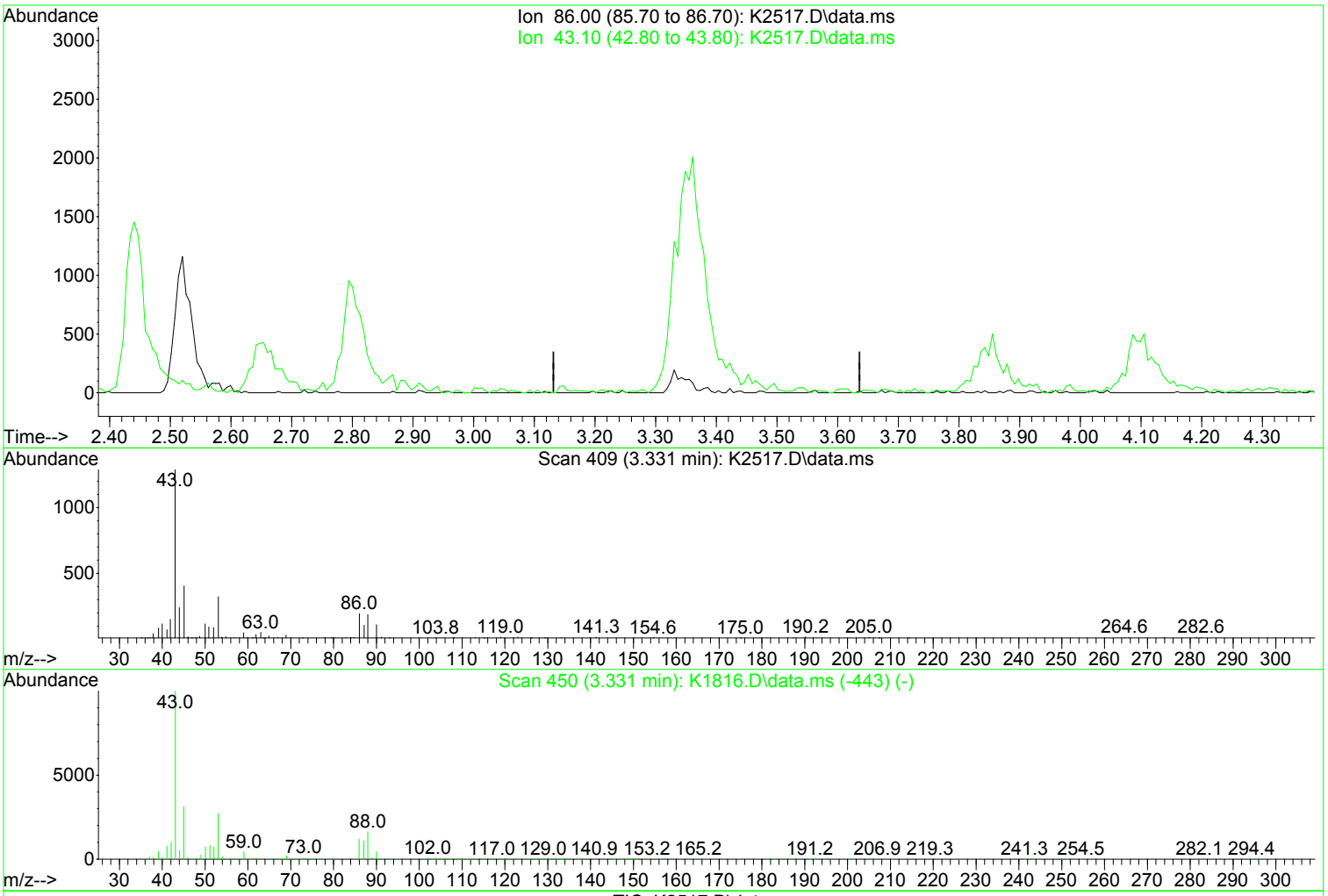
Peak not found.

06/05/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2517.D
Acq On : 04 Jun 2024 03:30 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 05 09:53:58 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration



TIC: K2517.D\data.ms

(29) Vinyl Acetate

3.331min (-3.331) 0.00 ug/L

response 0

Ion	Exp%	Act%
86.00	100.00	0.00
43.10	837.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

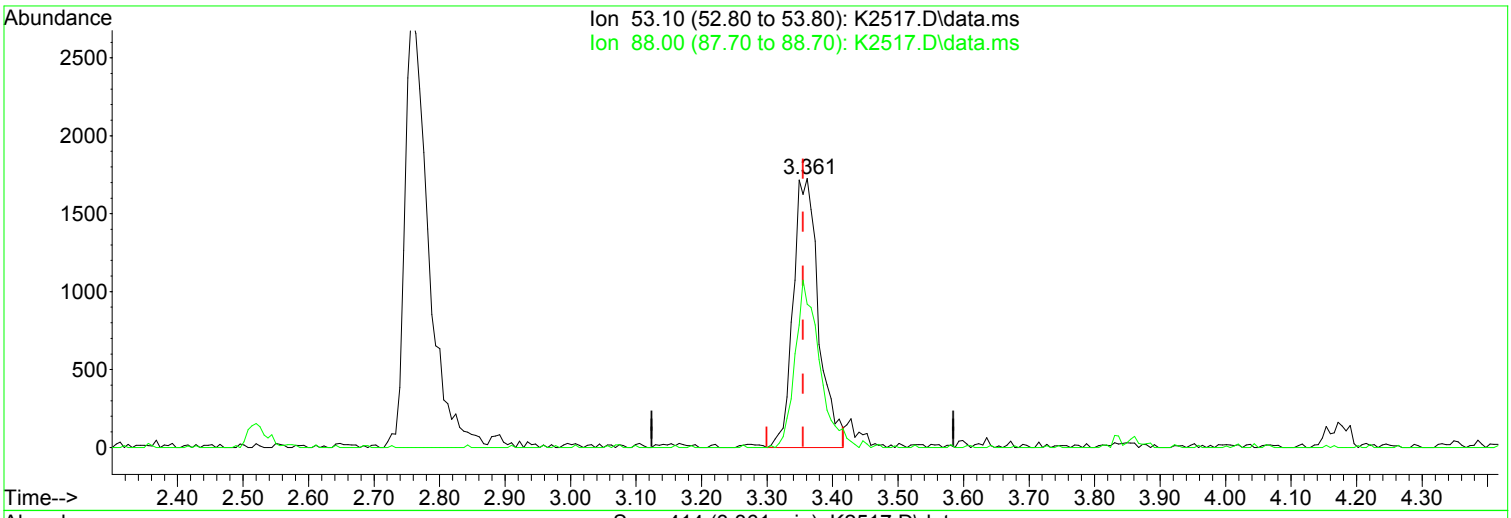
Before

06/05/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2517.D
Acq On : 04 Jun 2024 03:30 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 05 09:53:58 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration



TIC: K2517.D\data.ms

(31) 2-Chloro-1,3-Butadiene

3.361min (+ 0.006) 0.95 ug/L

response 4655

Ion	Exp%	Act%
53.10	100.00	100.00
88.00	63.70	53.30
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

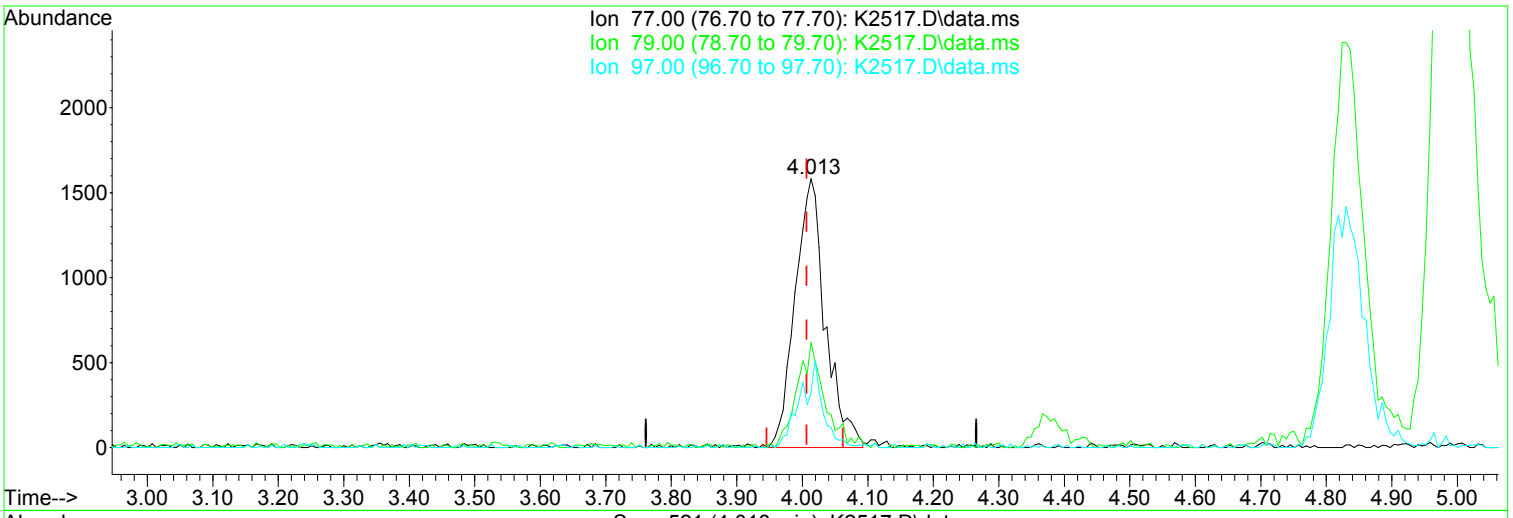
Before

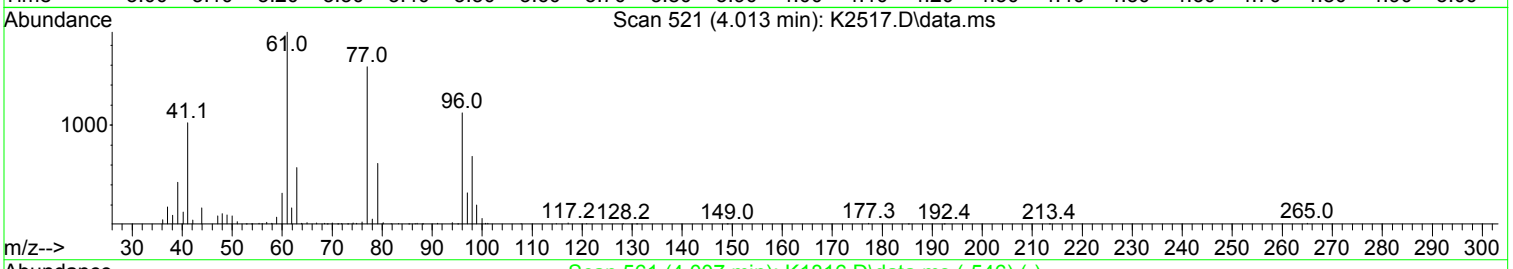
06/05/24

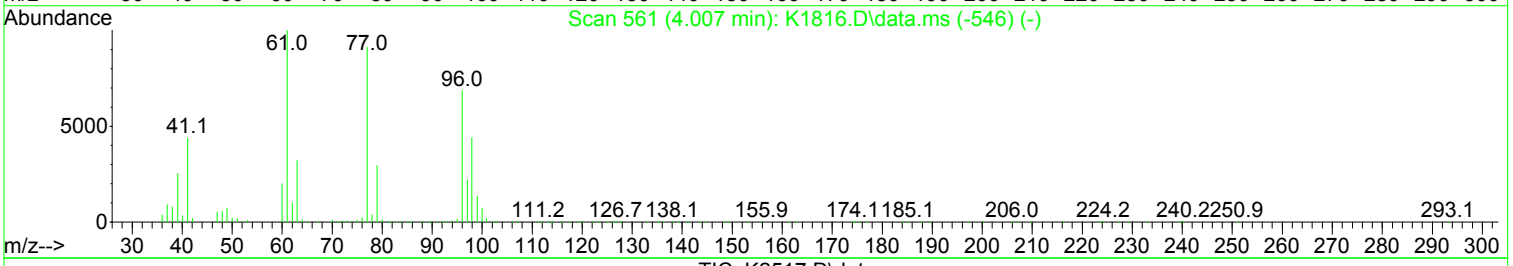
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2517.D
Acq On : 04 Jun 2024 03:30 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 05 09:53:58 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2517.D\data.ms

(33) 2,2-Dichloropropane

4.013min (+ 0.006) 1.10 ug/L m

response 5064

Ion	Exp%	Act%
77.00	100.00	100.00
79.00	32.60	38.98
97.00	24.30	20.34
0.00	0.00	0.00

Manual Integration:

After

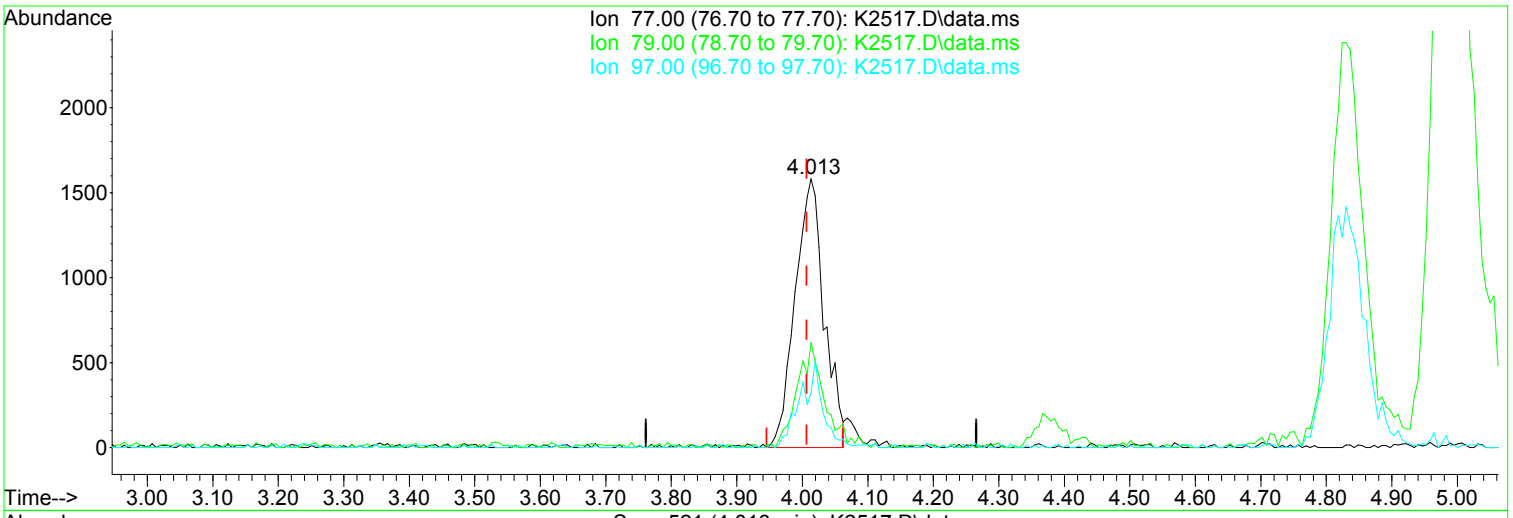
Poor integration.

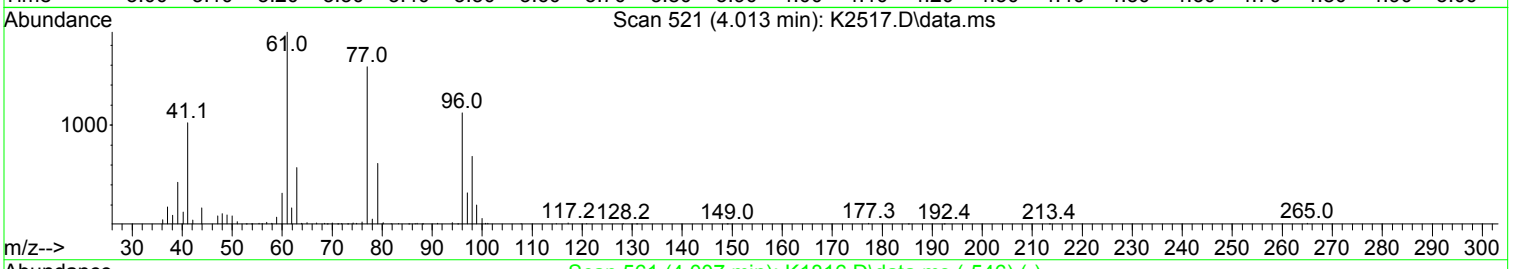
06/05/24

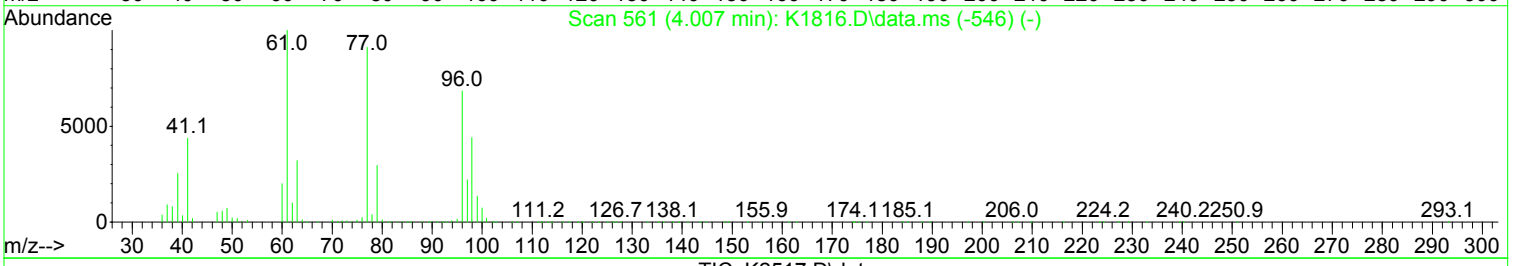
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2517.D
Acq On : 04 Jun 2024 03:30 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 05 09:53:58 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2517.D\data.ms

(33) 2,2-Dichloropropane

4.013min (+ 0.006) 1.06 ug/L

response 4868

Ion	Exp%	Act%
77.00	100.00	100.00
79.00	32.60	38.98
97.00	24.30	20.34
0.00	0.00	0.00

Manual Integration:

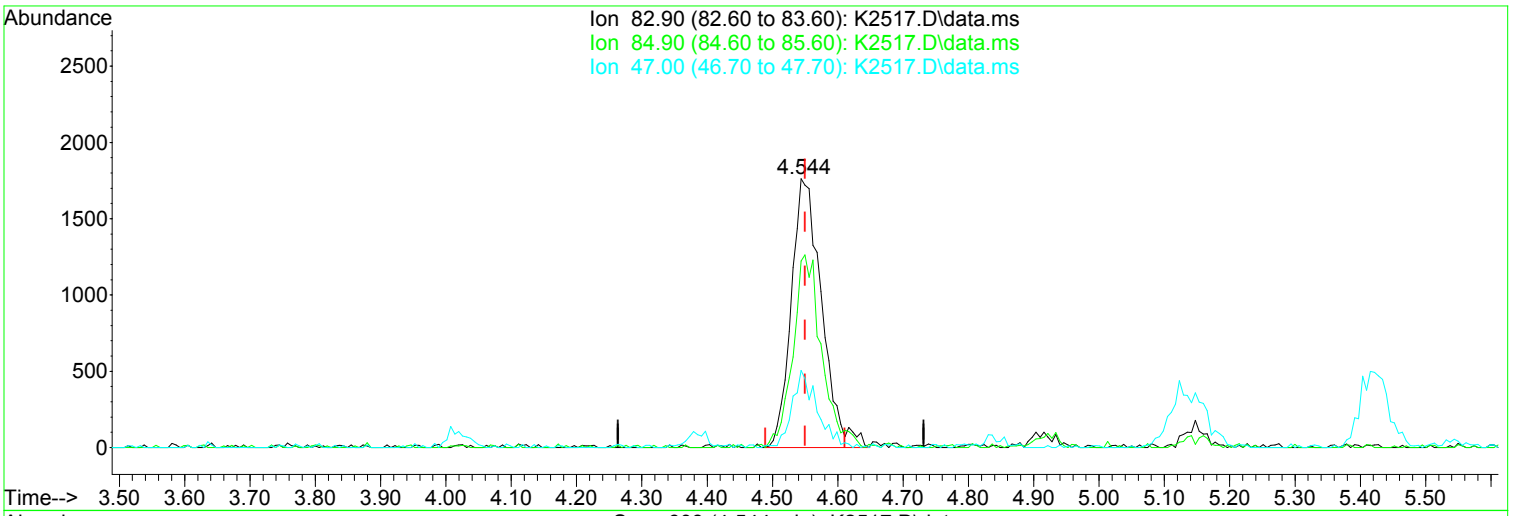
Before

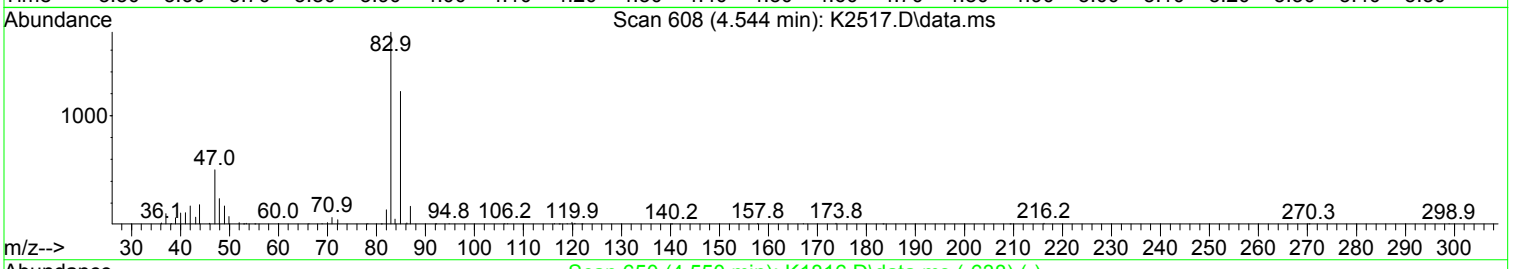
06/05/24

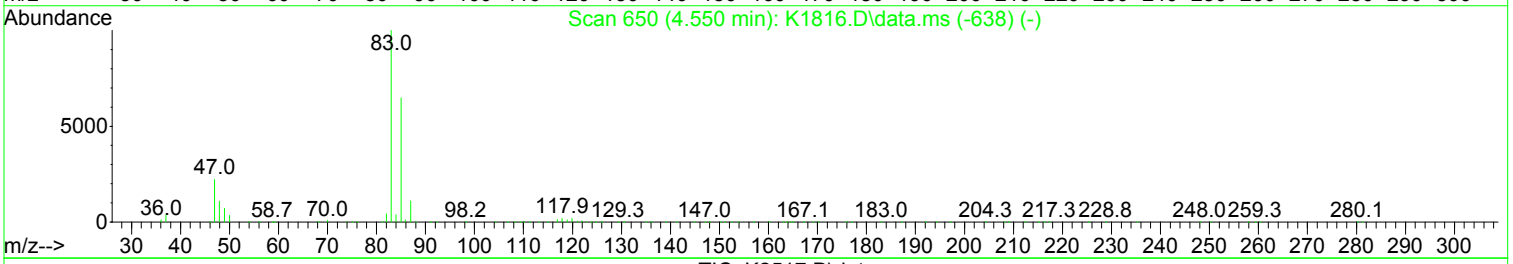
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2517.D
Acq On : 04 Jun 2024 03:30 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 05 09:53:58 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2517.D\data.ms

(40) Chloroform (P)

4.544min (-0.006) 1.01 ug/L m

response 5713

Ion	Exp%	Act%
82.90	100.00	100.00
84.90	64.80	69.31
47.00	22.30	28.64
0.00	0.00	0.00

Manual Integration:

After

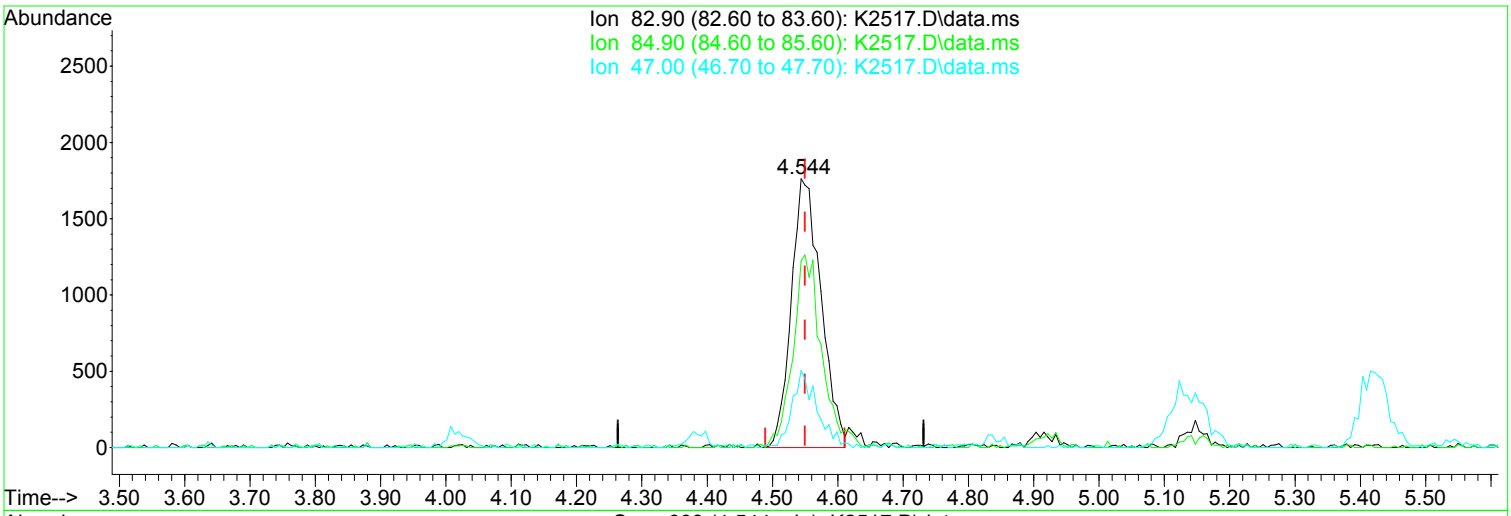
Poor integration.

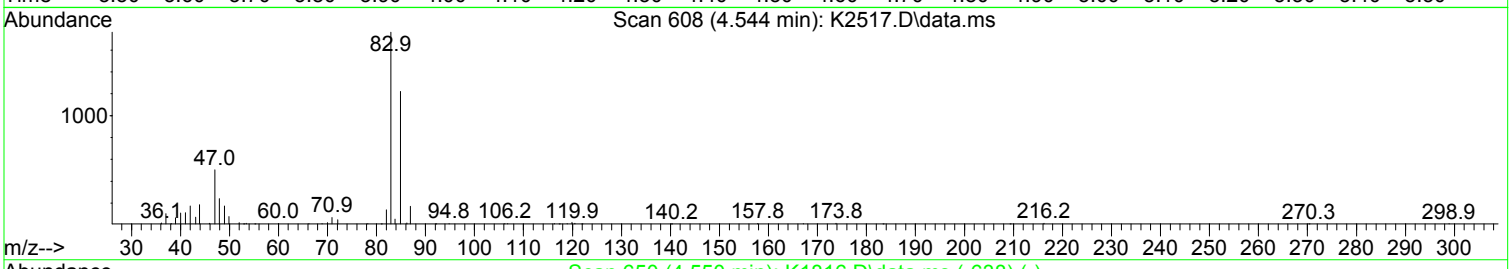
06/05/24

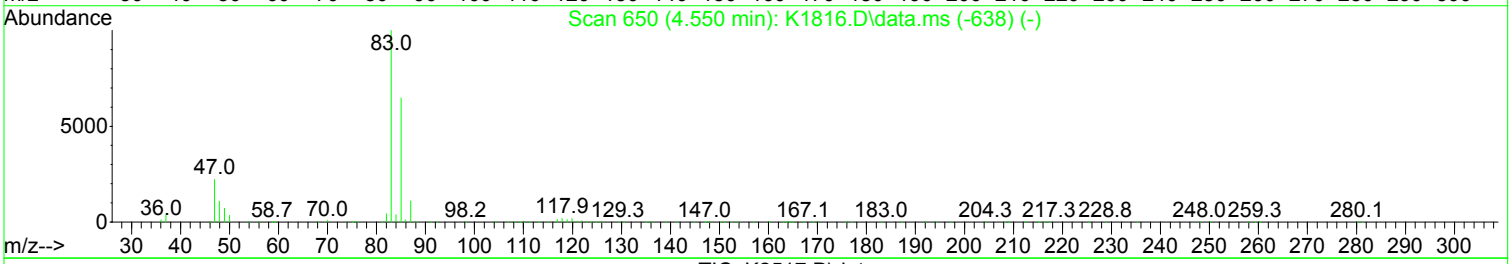
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2517.D
Acq On : 04 Jun 2024 03:30 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 05 09:53:58 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2517.D\data.ms

(40) Chloroform (P)

4.544min (-0.006) 0.98 ug/L

response 5561

Ion	Exp%	Act%
82.90	100.00	100.00
84.90	64.80	69.31
47.00	22.30	28.64
0.00	0.00	0.00

Manual Integration:

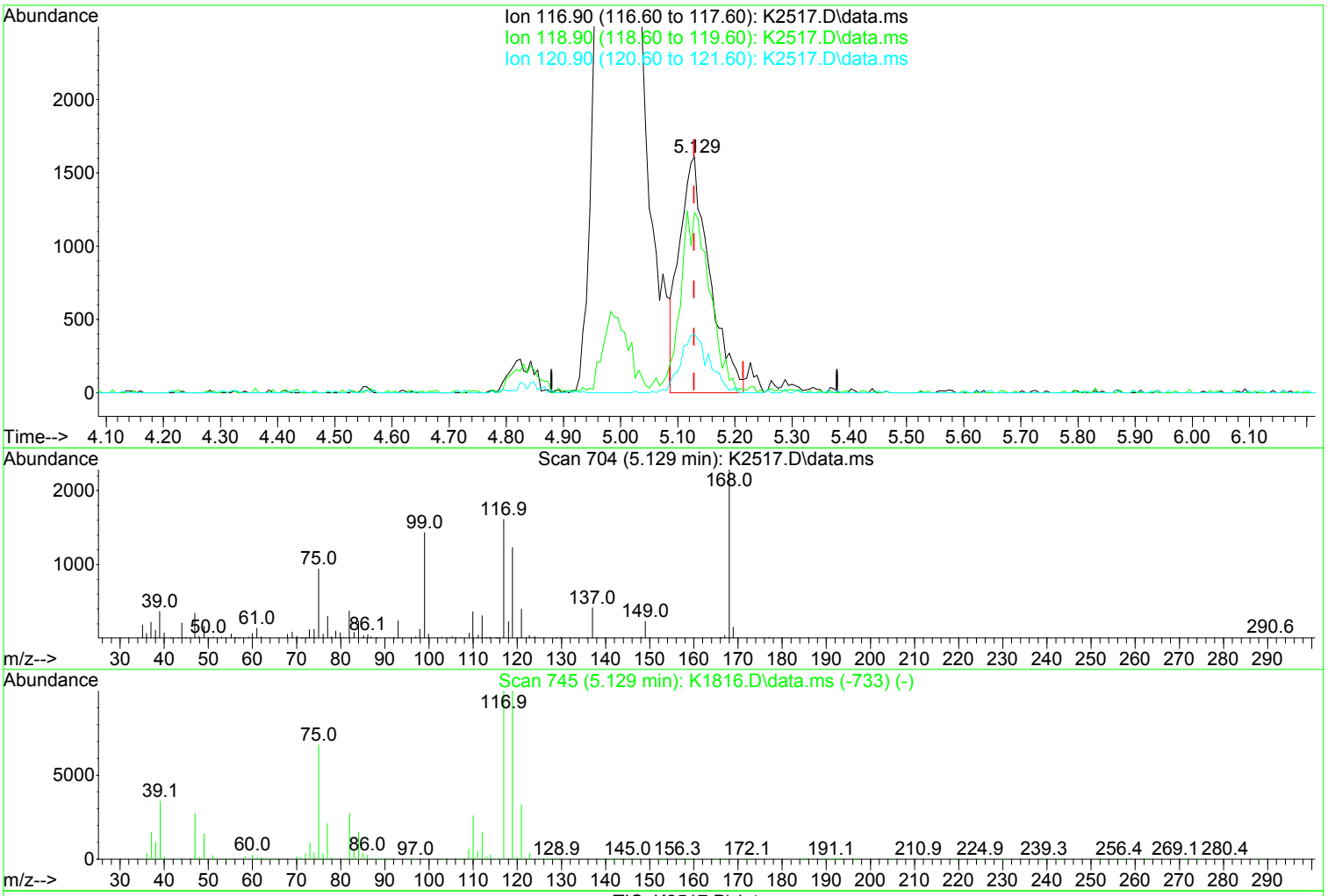
Before

06/05/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2517.D
Acq On : 04 Jun 2024 03:30 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 05 09:53:58 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration



TIC: K2517.D\data.ms

(46) Carbontetrachloride (P)

5.129min (+ 0.000) 1.07 ug/L m

response 5884

Ion	Exp%	Act%
116.90	100.00	100.00
118.90	98.30	76.40#
120.90	31.90	24.91
0.00	0.00	0.00

Manual Integration:

After

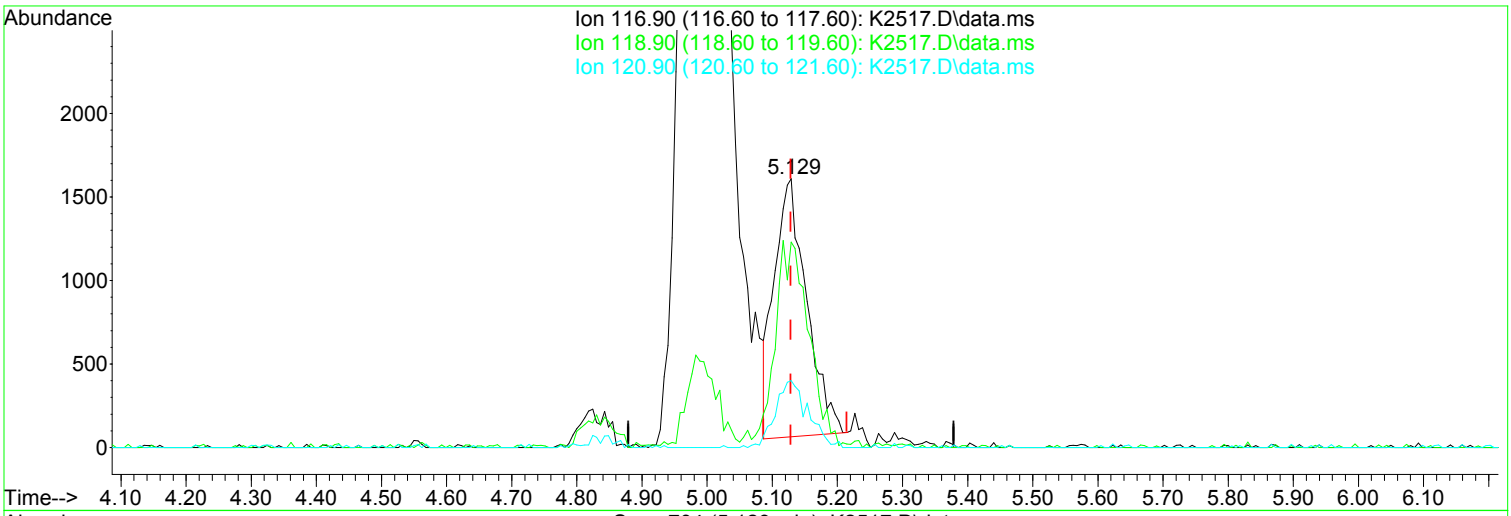
Poor integration.

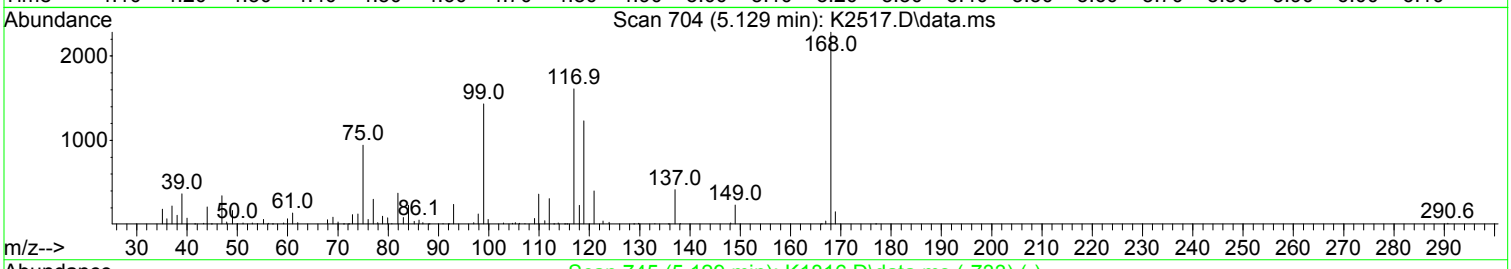
06/05/24

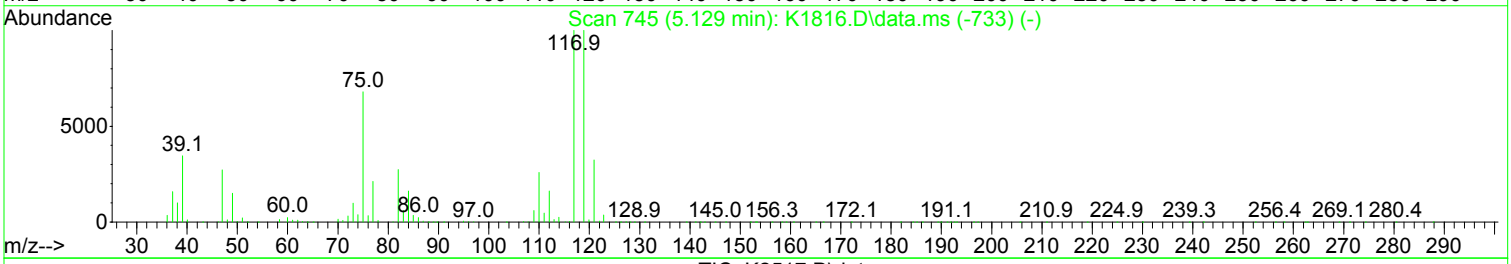
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2517.D
Acq On : 04 Jun 2024 03:30 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 05 09:53:58 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2517.D\data.ms

(46) Carbontetrachloride (P)

5.129min (+ 0.000) 0.97 ug/L

response 5338

Ion	Exp%	Act%
116.90	100.00	100.00
118.90	98.30	76.40#
120.90	31.90	24.91
0.00	0.00	0.00

Manual Integration:

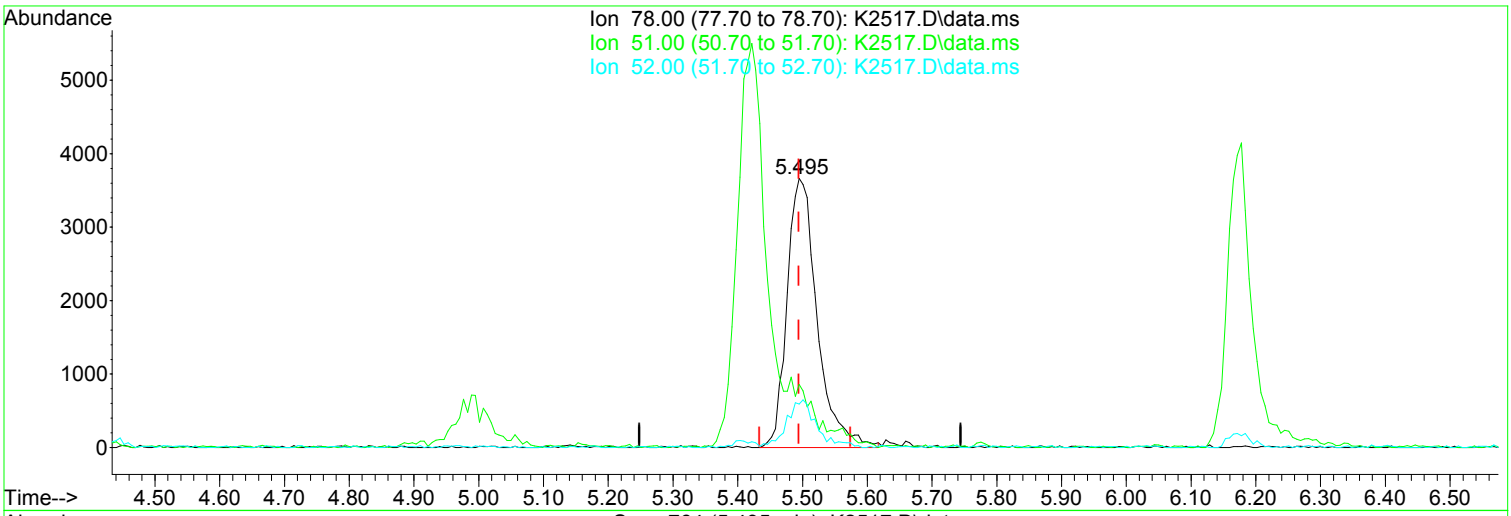
Before

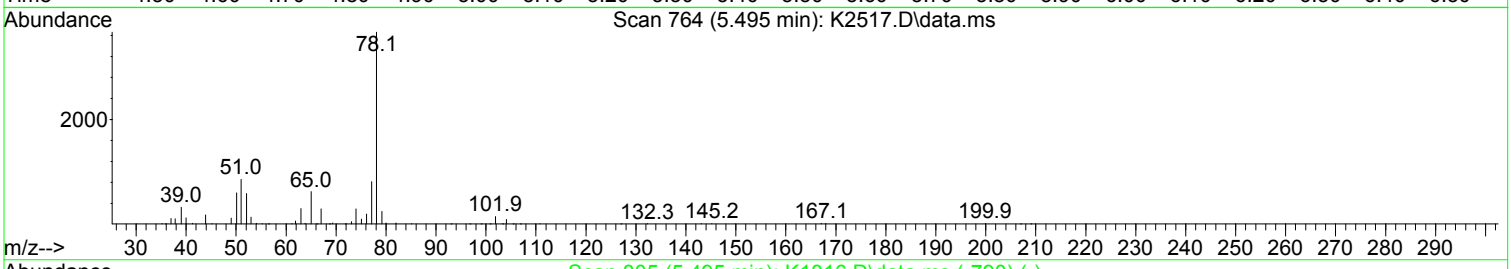
06/05/24

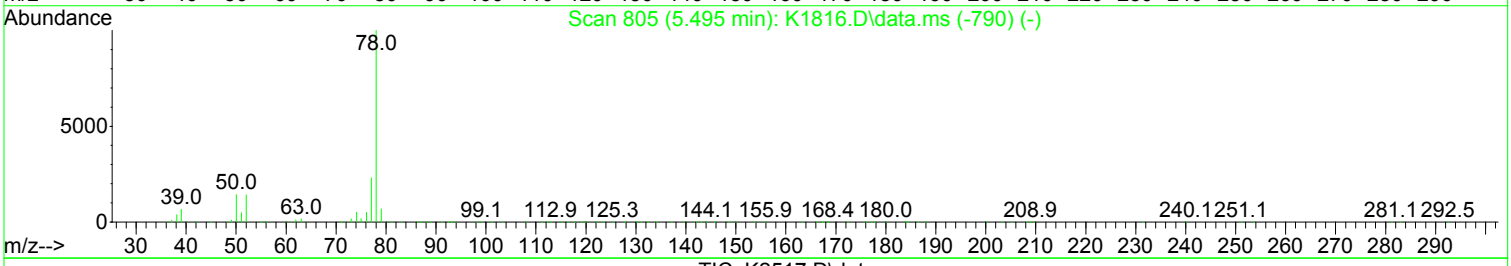
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2517.D
Acq On : 04 Jun 2024 03:30 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 05 09:53:58 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2517.D\data.ms

(49) Benzene (P)

5.495min (+ 0.000) 1.03 ug/L m

response 11822

Ion	Exp%	Act%
78.00	100.00	100.00
51.00	15.50	23.43
52.00	14.40	16.14
0.00	0.00	0.00

Manual Integration:

After

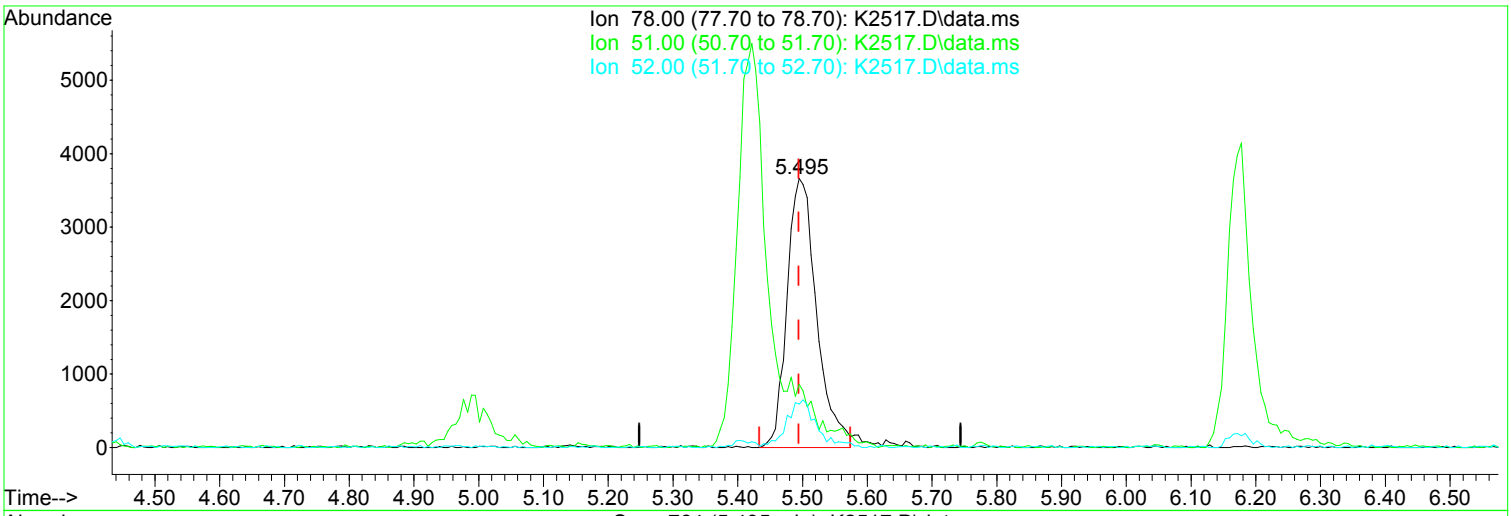
Poor integration.

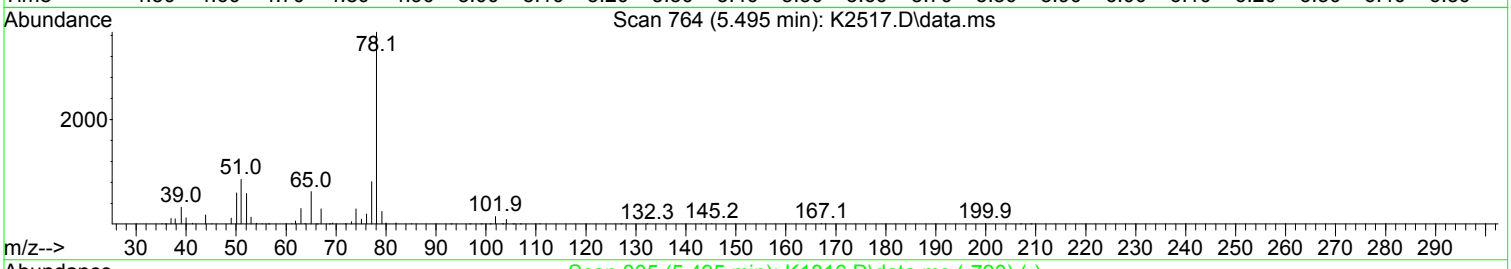
06/05/24

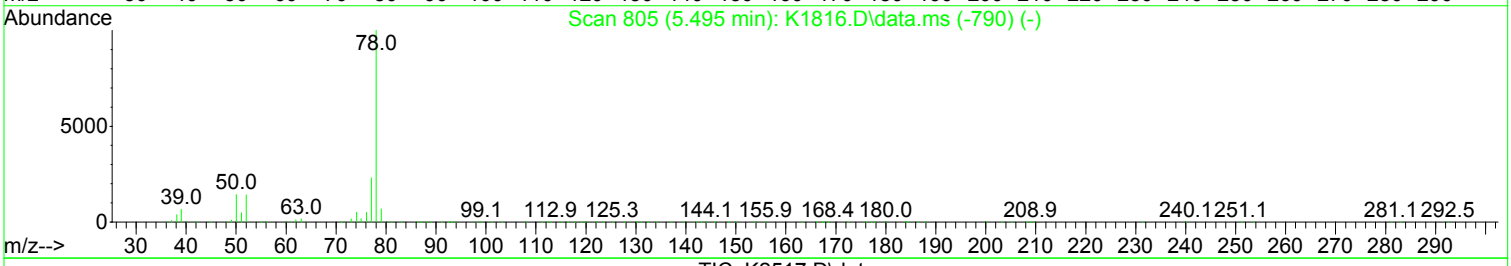
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2517.D
Acq On : 04 Jun 2024 03:30 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 05 09:53:58 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2517.D\data.ms

(49) Benzene (P)

5.495min (+ 0.000) 1.01 ug/L

response 11575

Ion	Exp%	Act%
78.00	100.00	100.00
51.00	15.50	23.43
52.00	14.40	16.14
0.00	0.00	0.00

Manual Integration:

Before

06/05/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2517.D
Acq On : 04 Jun 2024 03:30 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 05 09:53:58 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.995	168	386306	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.178	114	593187	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.573	117	519965	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	11.640	152	247623	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.830	113	40371	10.10	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 20.20%#				
48) surr1,1,2-dichloroetha...	5.422	65	50775	10.48	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 20.96%#				
65) SURR3,Toluene-d8	8.049	98	151086	10.91	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 21.82%#				
70) SURR2,BFB	10.665	95	55196	10.60	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 21.20%#				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.087	51	3187	1.000	ug/L		80
3) Dichlorodifluoromethane	1.075	85	4166	0.911	ug/L		96
4) Chloromethane	1.197	50	4669	1.079	ug/L		98
5) Vinyl Chloride	1.264	62	3722	0.961	ug/L		89
6) Bromomethane	1.471	94	3007	1.493	ug/L		90
7) Chloroethane	1.544	64	2378	1.035	ug/L		86
8) Freon 21	1.678	67	5479	0.995	ug/L		91
9) Trichlorofluoromethane	1.721	101	5056	0.956	ug/L		99
10) Diethyl Ether	1.935	59	2709	0.994	ug/L	#	84
11) Freon 123a	1.941	67	3441	1.064	ug/L	#	67
12) Freon 123	1.989	83	4285m	1.050	ug/L		
13) Acrolein	2.032	56	2291	5.725	ug/L		90
14) 1,1-Diclethene	2.105	96	2797	0.948	ug/L		96
15) Freon 113	2.111	101	3221m	1.054	ug/L		
16) Acetone	2.160	43	1739	1.580	ug/L		97
17) 2-Propanol	2.282	45	4279	19.369	ug/L		99
18) Iodomethane	2.233	142	1722m	0.727	ug/L		
19) Carbon Disulfide	2.282	76	8547	1.046	ug/L		98
20) Acetonitrile	2.404	41	2877m	2.704	ug/L		
21) Allyl Chloride	2.410	76	1614	1.062	ug/L		91
22) Methyl Acetate	2.441	43	3506	1.121	ug/L		93
23) Methylene Chloride	2.526	84	3247	1.033	ug/L		92
24) TBA	2.648	59	8612	18.907	ug/L		94
25) Acrylonitrile	2.758	53	6731	4.963	ug/L		95
26) Methyl-t-Butyl Ether	2.800	73	9586	0.976	ug/L		99
27) trans-1,2-Dichloroethene	2.782	96	3164	1.016	ug/L		95
28) 1,1-Diclethane	3.239	63	5629	0.972	ug/L		98
29) Vinyl Acetate	3.331	86	326m	0.828	ug/L		
30) DIPE	3.367	45	8327	1.007	ug/L		84
31) 2-Chloro-1,3-Butadiene	3.361	53	4903m	0.999	ug/L		
32) ETBE	3.849	59	10600	1.007	ug/L		98
33) 2,2-Dichloropropane	4.013	77	5064m	1.103	ug/L		
34) cis-1,2-Dichloroethene	4.019	96	3618	1.096	ug/L		94
35) 2-Butanone	4.105	43	1691	1.173	ug/L		96
36) Propionitrile	4.160	54	2578	4.610	ug/L		80
37) Bromochloromethane	4.385	130	2367	1.068	ug/L		98
38) Methacrylonitrile	4.410	67	1438	0.971	ug/L		93
39) Tetrahydrofuran	4.501	42	1116	1.175	ug/L		81
40) Chloroform	4.544	83	5713m	1.006	ug/L		

1st 06/05/24
2nd 06/06/24

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2517.D
Acq On : 04 Jun 2024 03:30 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 05 09:53:58 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 1,1,1-Trichloroethane	4.830	97	5265	0.973	ug/L		95
42) TAME	5.763	73	9238	1.000	ug/L		94
44) Cyclohexane	4.916	41	2584	1.038	ug/L		94
46) Carbontetrachloride	5.129	117	5884m	1.068	ug/L		
47) 1,1-Dichloropropene	5.147	75	4391	1.044	ug/L		88
49) Benzene	5.495	78	11822m	1.033	ug/L		
50) 1,2-Dichloroethane	5.550	62	5342	1.010	ug/L		97
51) Iso-Butyl Alcohol	5.586	43	2301	16.472	ug/L		79
52) n-Heptane	6.025	43	3679	1.089	ug/L	#	71
53) 1-Butanol	6.604	56	3404	33.734	ug/L		94
54) Trichloroethene	6.507	130	3634	0.975	ug/L	#	87
55) Methylcyclohexane	6.745	55	4407	1.049	ug/L	#	71
56) 1,2-Diclpropane	6.806	63	3353	1.030	ug/L		80
57) Dibromomethane	6.958	93	2294	1.024	ug/L		96
58) 1,4-Dioxane	7.049	88	965	18.999	ug/L		90
59) Methyl Methacrylate	7.062	69	2229	0.994	ug/L		91
60) Bromodichloromethane	7.196	83	4185	0.926	ug/L		92
61) 2-Nitropropane	7.494	41	1857	1.786	ug/L	#	67
62) 2-Chloroethylvinyl Ether	7.622	63	2141	0.973	ug/L		85
63) cis-1,3-Dichloropropene	7.757	75	4377	0.920	ug/L		92
64) 4-Methyl-2-pentanone	7.982	43	2981	0.961	ug/L		98
66) Toluene	8.122	91	13593	1.032	ug/L		89
67) trans-1,3-Dichloropropene	8.409	75	4002	0.899	ug/L		91
68) Ethyl Methacrylate	8.567	69	3824	0.894	ug/L		95
69) 1,1,2-Trichloroethane	8.604	97	2944	0.933	ug/L		95
72) Tetrachloroethene	8.720	164	2844	0.997	ug/L		92
73) 2-Hexanone	8.915	43	1961	0.897	ug/L	#	68
74) 1,3-Dichloropropane	8.775	76	4987	1.022	ug/L		96
75) Dibromochloromethane	9.000	129	3467	0.881	ug/L		100
76) N-Butyl Acetate	9.073	43	4637	0.989	ug/L		92
77) 1,2-Dibromoethane	9.098	107	3018	0.971	ug/L		91
78) 3-Chlorobenzotrifluoride	9.634	180	5330	1.026	ug/L		90
79) Chlorobenzene	9.598	112	9536	1.029	ug/L		91
80) 4-Chlorobenzotrifluoride	9.689	180	4455	0.950	ug/L		91
81) 1,1,1,2-Tetrachloroethane	9.695	131	3502	0.944	ug/L		96
82) Ethylbenzene	9.726	106	4861	1.000	ug/L		96
83) (m+p)Xylene	9.842	106	12641	2.149	ug/L		89
84) o-Xylene	10.201	106	5815	0.994	ug/L		97
85) Styrene	10.220	104	9192	0.954	ug/L		96
86) Bromoform	10.366	173	1948	0.842	ug/L		93
87) 2-Chlorobenzotrifluoride	10.457	180	4840	0.971	ug/L		89
88) Isopropylbenzene	10.543	105	15342	1.012	ug/L		98
89) Cyclohexanone	10.610	55	5687	16.906	ug/L		85
90) trans-1,4-Dichloro-2-B...	10.860	53	1128	0.927	ug/L		92
92) 1,1,2,2-Tetrachloroethane	10.811	83	4052	1.035	ug/L		98
93) Bromobenzene	10.780	156	3768	0.998	ug/L	#	84
94) 1,2,3-Trichloropropane	10.835	110	1662	1.155	ug/L	#	73
95) n-Propylbenzene	10.896	91	16600	1.048	ug/L		97
96) 2-Chlorotoluene	10.957	91	10318	1.057	ug/L		97
97) 3-Chlorotoluene	11.012	91	10893	1.033	ug/L		97
98) 4-Chlorotoluene	11.055	91	12339	1.091	ug/L		98
99) 1,3,5-Trimethylbenzene	11.055	105	12746	1.026	ug/L		97
100) tert-Butylbenzene	11.329	119	11478	1.052	ug/L		97
101) 1,2,4-Trimethylbenzene	11.366	105	12207	0.982	ug/L		97
102) 3,4-Dichlorobenzotrifl...	11.433	214	3631	1.039	ug/L		95
103) sec-Butylbenzene	11.506	105	15874	1.057	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2517.D
Acq On : 04 Jun 2024 03:30 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 05 09:53:58 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
104) p-Isopropyltoluene	11.634	119	13789	1.049	ug/L		98
105) 1,3-Dclbenz	11.585	146	7756	1.062	ug/L		100
106) 1,4-Dclbenz	11.664	146	8258	1.113	ug/L		96
107) 2,4-Dichlorobenzotrifl...	11.725	214	3017	0.986	ug/L		86
108) 2,5-Dichlorobenzotrifl...	11.768	214	3351	0.978	ug/L		92
109) n-Butylbenzene	11.969	91	11134	1.010	ug/L		98
110) 1,2-Dclbenz	11.963	146	7503	1.054	ug/L		94
111) 1,2-Dibromo-3-chloropr...	12.591	157	818	0.834	ug/L		91
112) Trielution Dichlorotol...	12.707	125	18647	2.878	ug/L		93
113) 1,3,5-Trichlorobenzene	12.762	180	4798	0.956	ug/L		99
114) Coelution Dichlorotoluene	13.036	125	13055	1.900	ug/L		98
115) 1,2,4-Tcbenzene	13.243	180	4573	0.995	ug/L		92
116) Hexachlorobt	13.390	225	2197	1.090	ug/L		92
117) Naphthalen	13.439	128	11754	0.882	ug/L		98
118) 1,2,3-Tclbenzene	13.621	180	4067	0.936	ug/L	#	83
119) 2,4,5-Trichlorotoluene	14.213	159	2902	0.863	ug/L		88
120) 2,3,6-Trichlorotoluene	14.298	159	2640	0.917	ug/L		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st 06/05/24
2nd 06/06/24

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
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Acq On : 04 Jun 2024 03:30 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 05 09:53:58 2024
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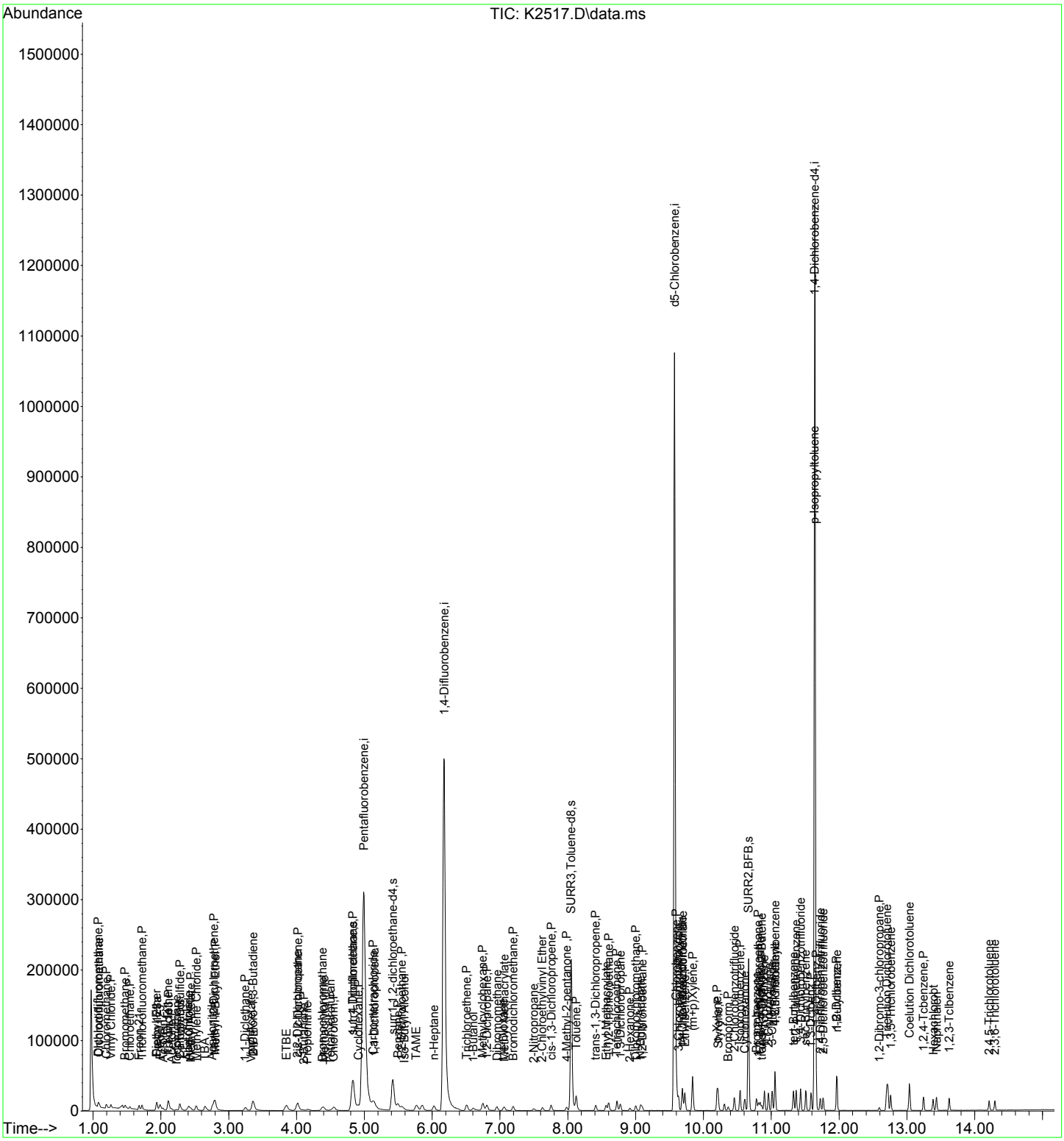
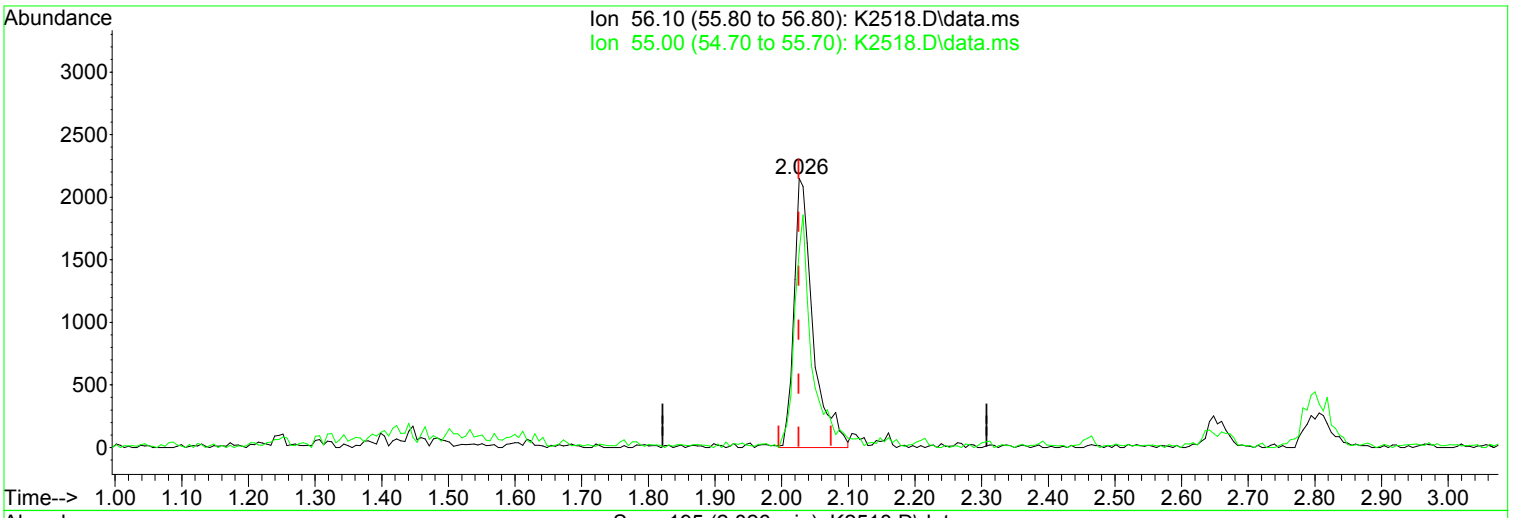
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

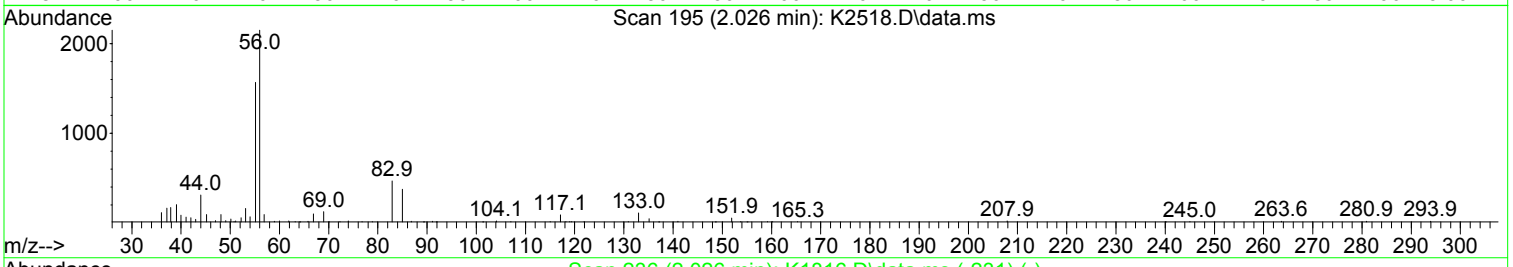


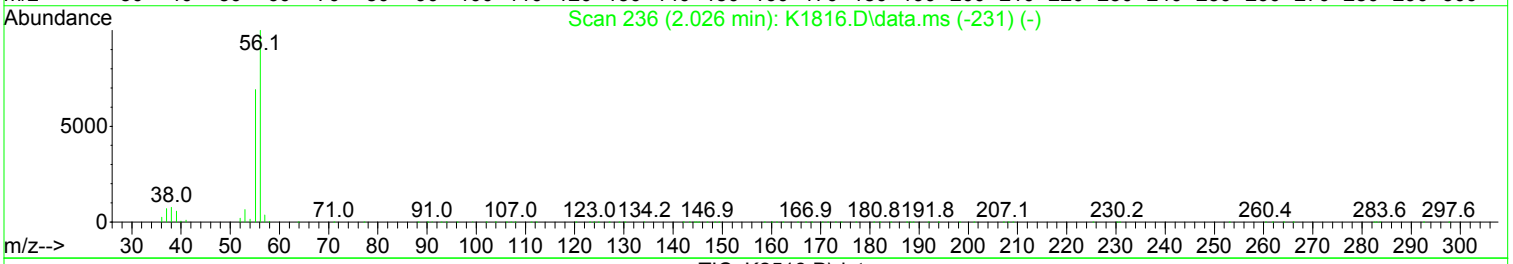
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2518.D
Acq On : 04 Jun 2024 03:53 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 05 09:54:04 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2518.D\data.ms

(13) Acrolein

2.026min (+ 0.000) 10.30 ug/L m

response 4260

Ion	Exp%	Act%
56.10	100.00	100.00
55.00	69.50	72.96
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

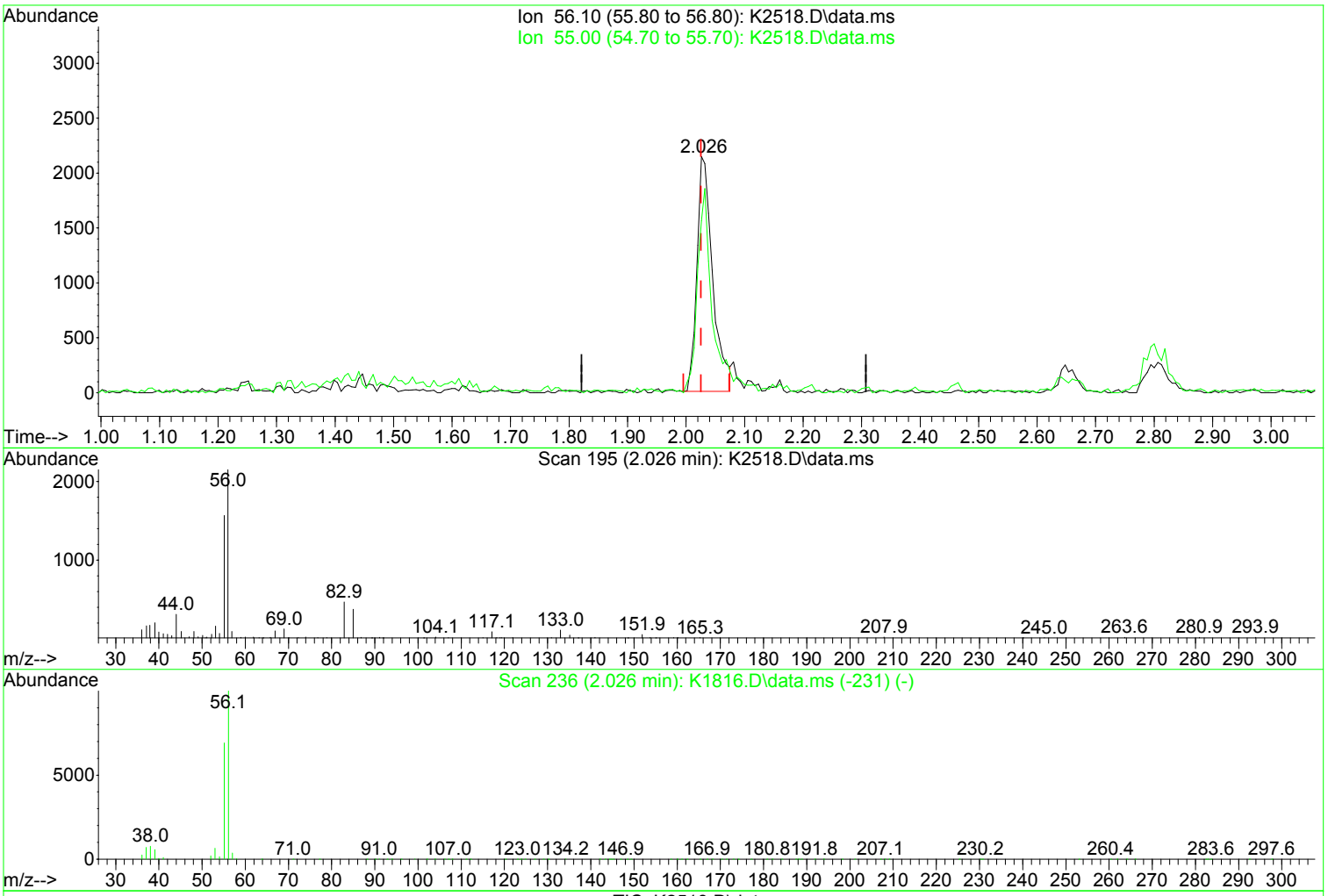
Poor integration.

06/05/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2518.D
Acq On : 04 Jun 2024 03:53 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 05 09:54:04 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration



TIC: K2518.D\data.ms

(13) Acrolein

2.026min (+ 0.000) 9.67 ug/L

response 4000

Ion	Exp%	Act%
56.10	100.00	100.00
55.00	69.50	72.96
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

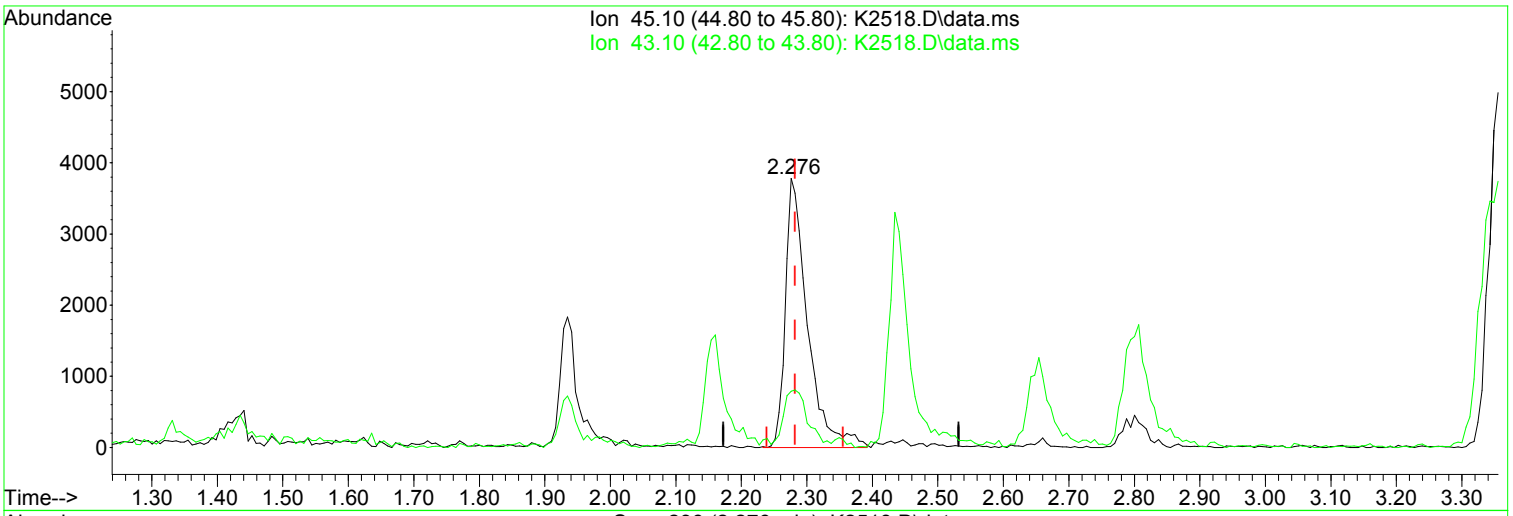
Before

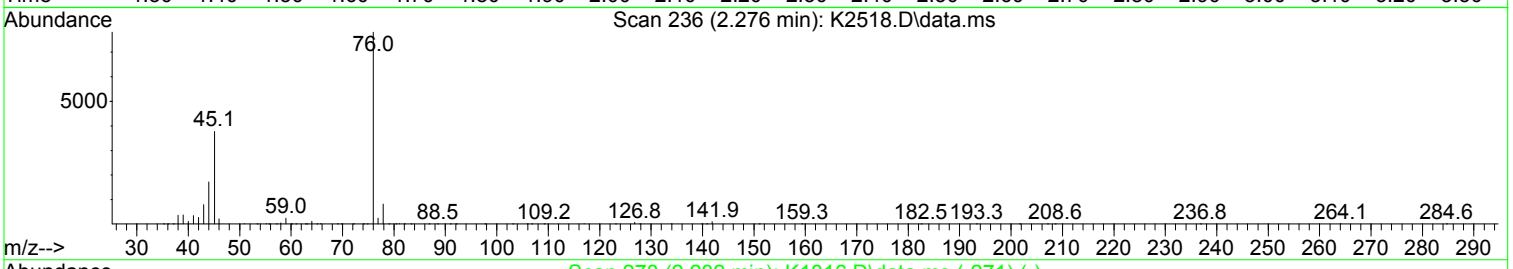
06/05/24

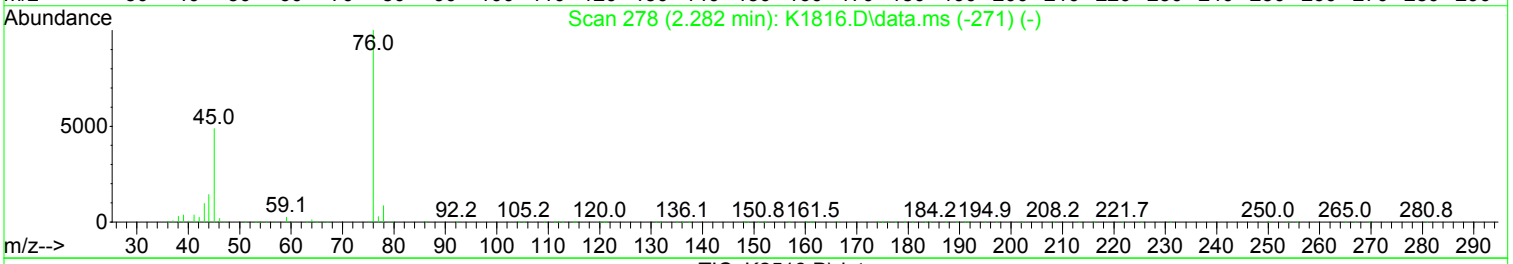
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2518.D
Acq On : 04 Jun 2024 03:53 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 05 09:54:04 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2518.D\data.ms

(17) 2-Propanol

2.276min (-0.006) 38.75 ug/L m

response 8844

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	20.90	20.96
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

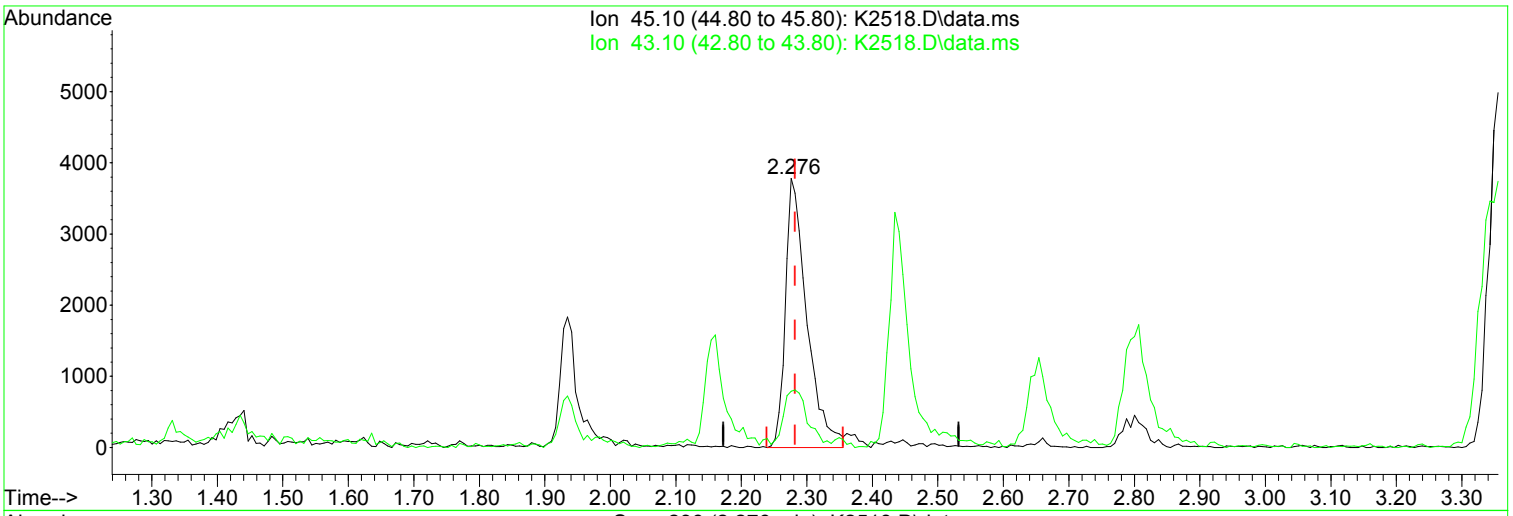
Poor integration.

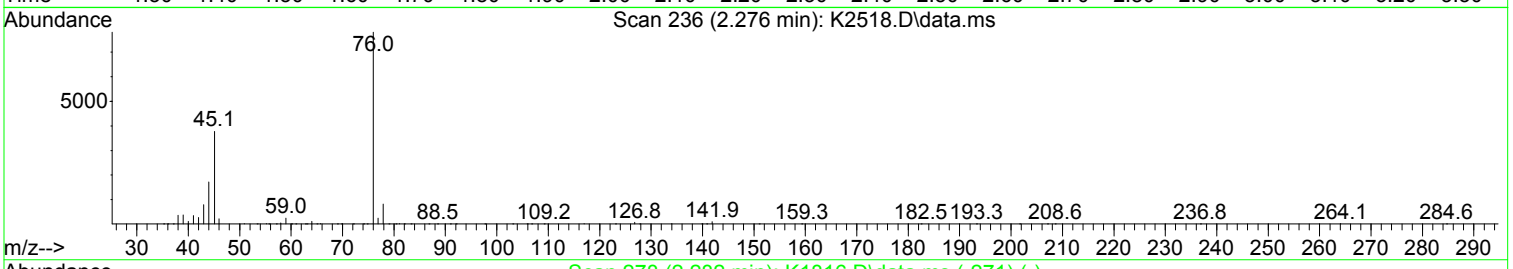
06/05/24

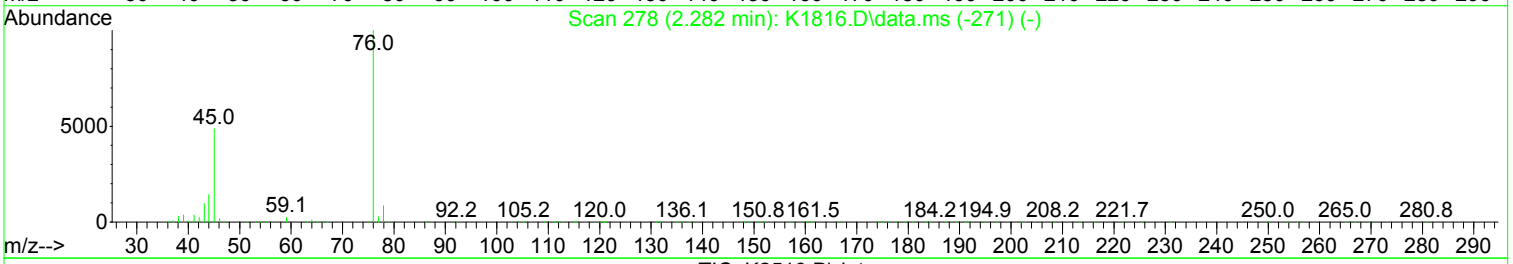
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2518.D
Acq On : 04 Jun 2024 03:53 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 05 09:54:04 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2518.D\data.ms

(17) 2-Propanol

2.276min (-0.006) 37.52 ug/L

response 8564

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	20.90	20.96
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

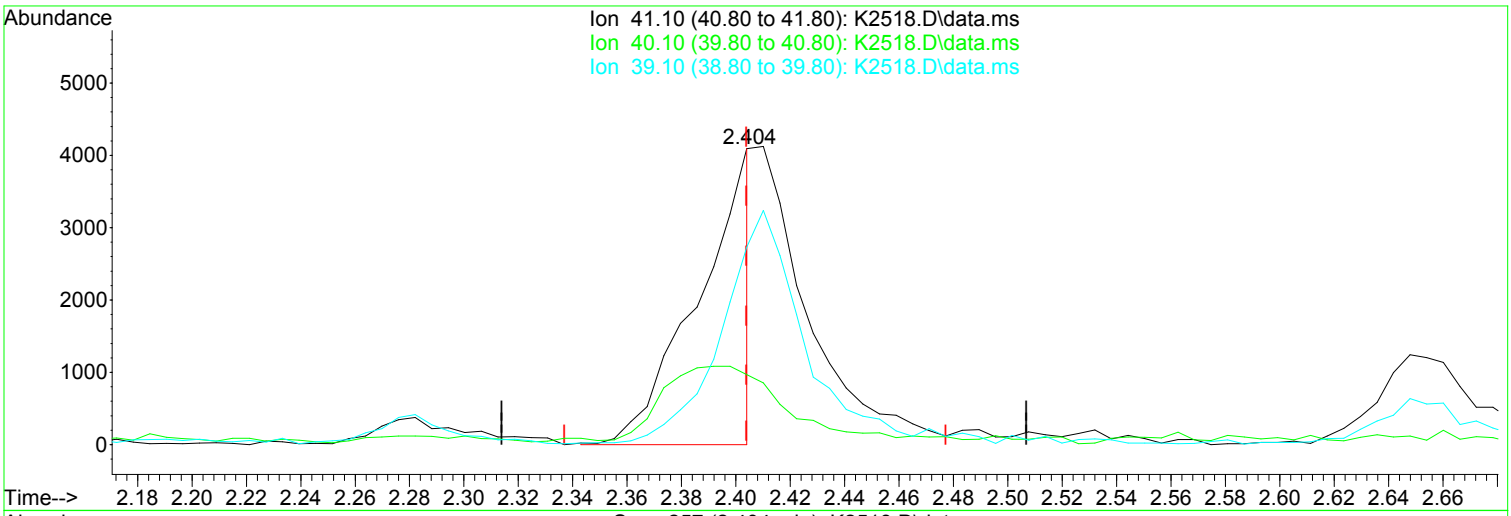
Before

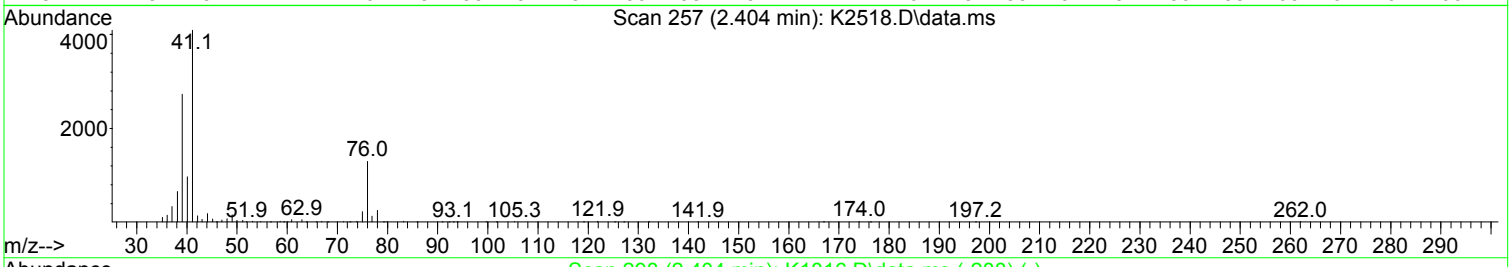
06/05/24

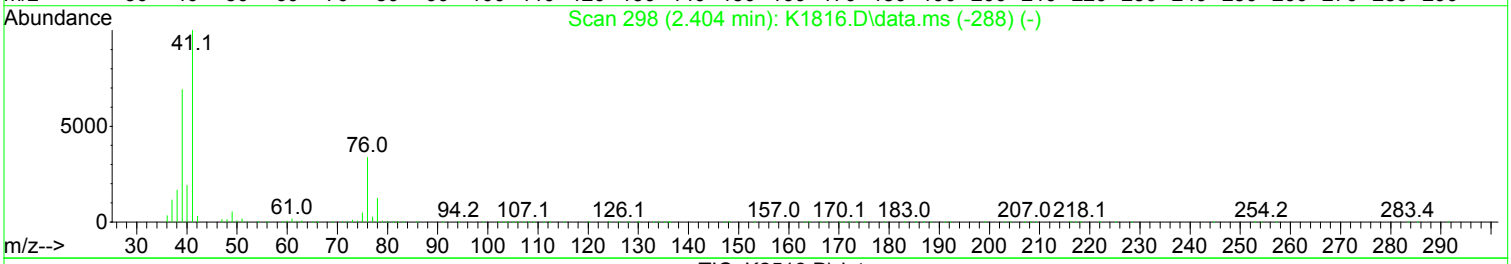
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2518.D
Acq On : 04 Jun 2024 03:53 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 05 09:54:04 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2518.D\data.ms

(20) Acetonitrile

2.404min (+ 0.000) 5.16 ug/L m

response 5670

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	19.40	23.66
39.10	69.50	66.78
0.00	0.00	0.00

Manual Integration:

After

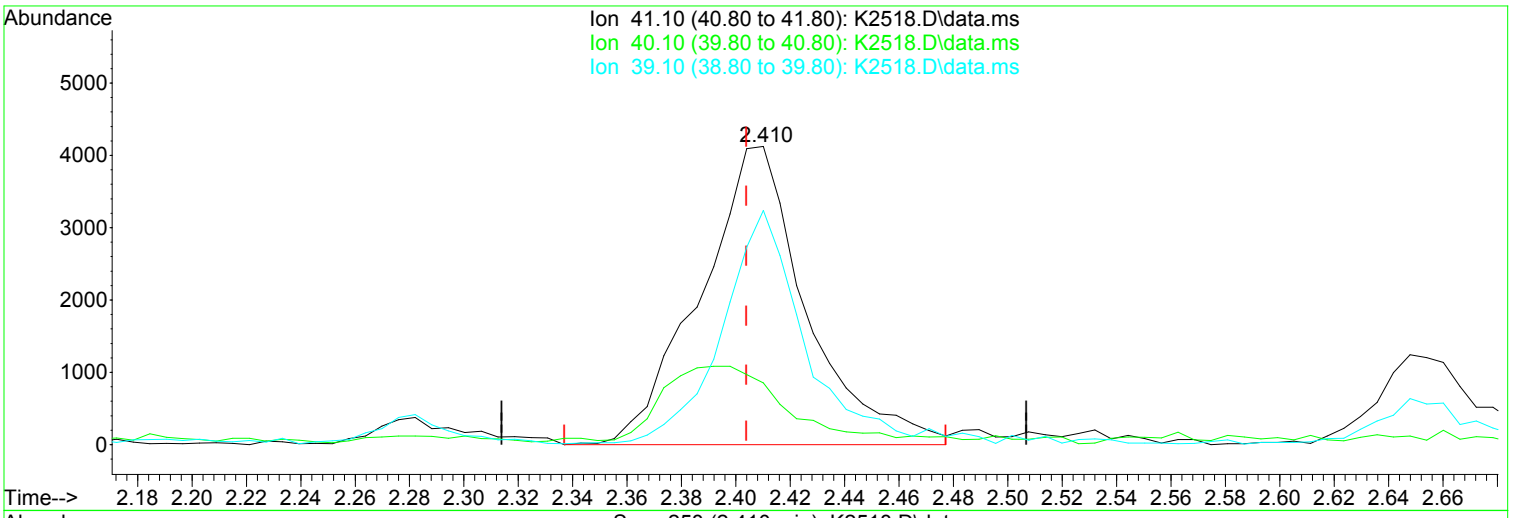
Poor integration.

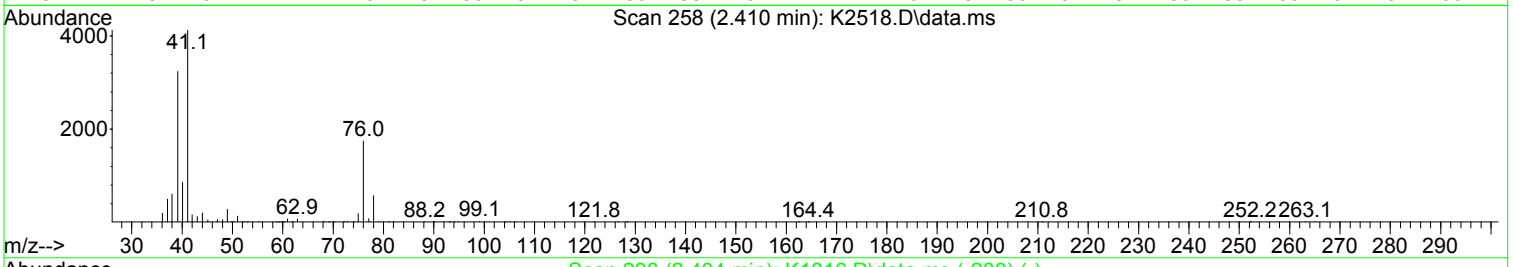
06/05/24

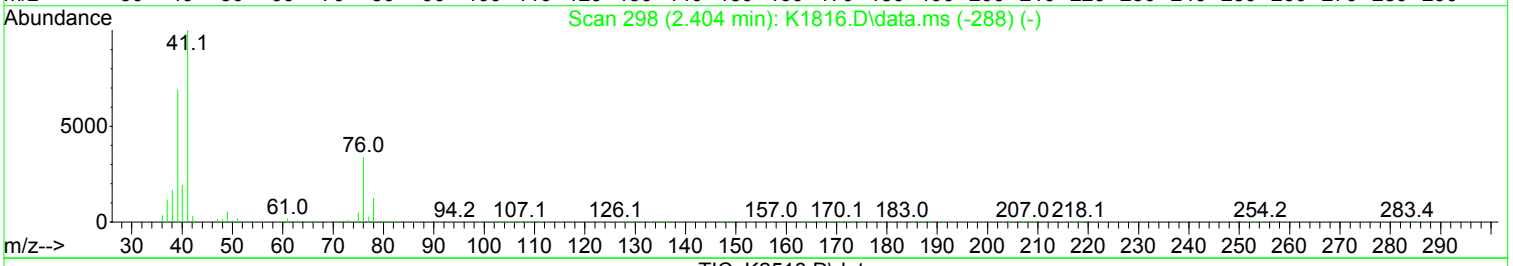
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2518.D
Acq On : 04 Jun 2024 03:53 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 05 09:54:04 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2518.D\data.ms

(20) Acetonitrile

2.410min (+ 0.006) 10.19 ug/L

response 11200

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	19.40	20.67
39.10	69.50	78.53
0.00	0.00	0.00

Manual Integration:

Before

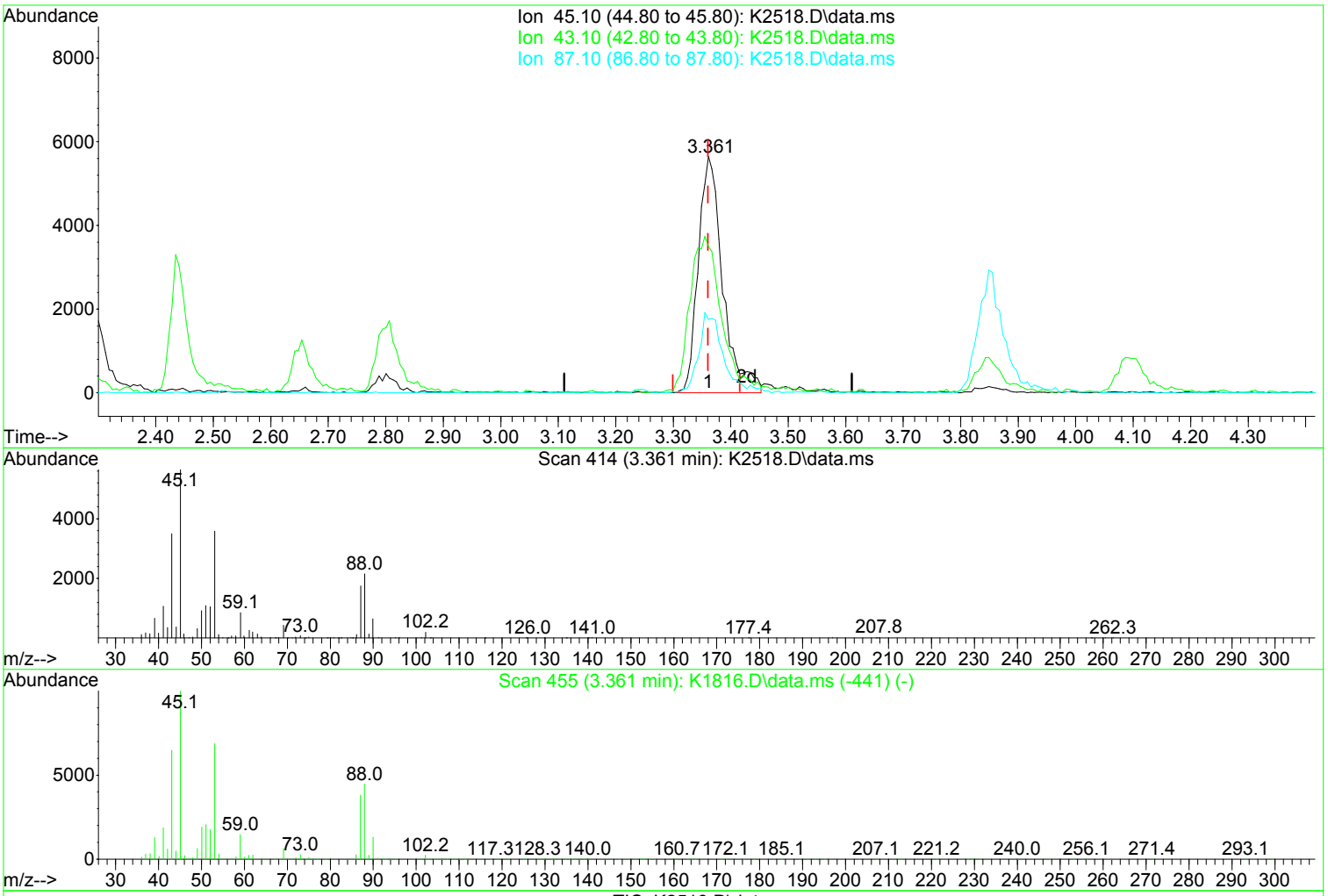
06/05/24

1st 06/05/24
2nd 06/06/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2518.D
Acq On : 04 Jun 2024 03:53 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 05 09:54:04 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration



TIC: K2518.D\data.ms

(30) DIPE

3.361min (+ 0.000) 1.94 ug/L m

response 16608

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	64.90	62.03
87.10	38.40	31.01
0.00	0.00	0.00

Manual Integration:

After

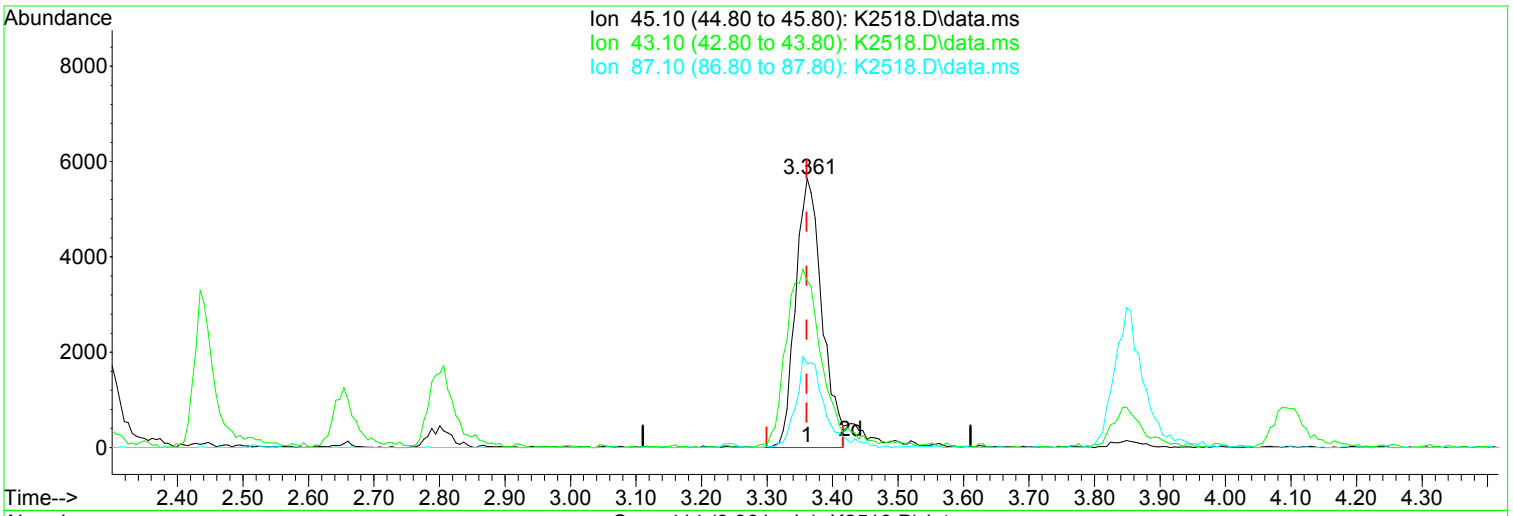
Poor integration.

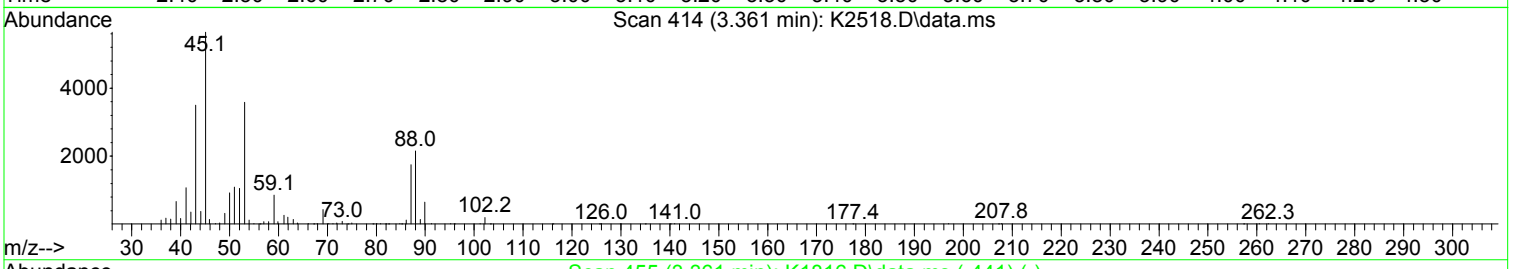
06/05/24

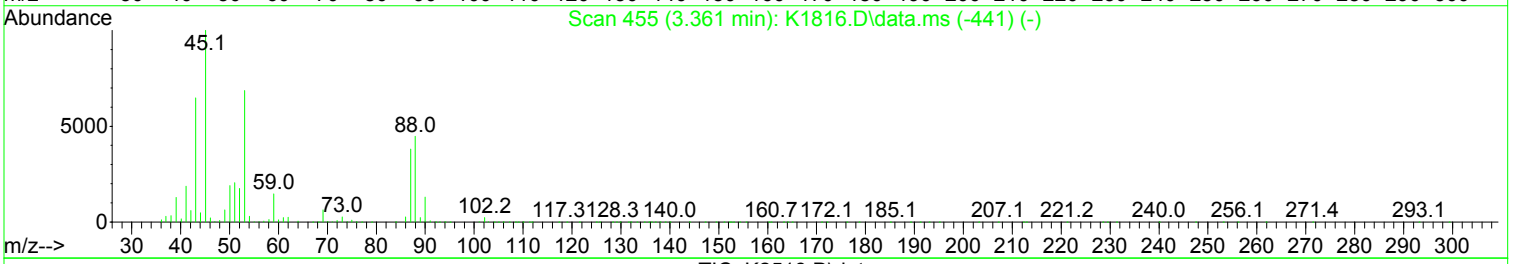
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2518.D
Acq On : 04 Jun 2024 03:53 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 05 09:54:04 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2518.D\data.ms

(30) DIPE

3.361min (+ 0.000) 1.84 ug/L

response 15755

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	64.90	62.03
87.10	38.40	31.01
0.00	0.00	0.00

Manual Integration:

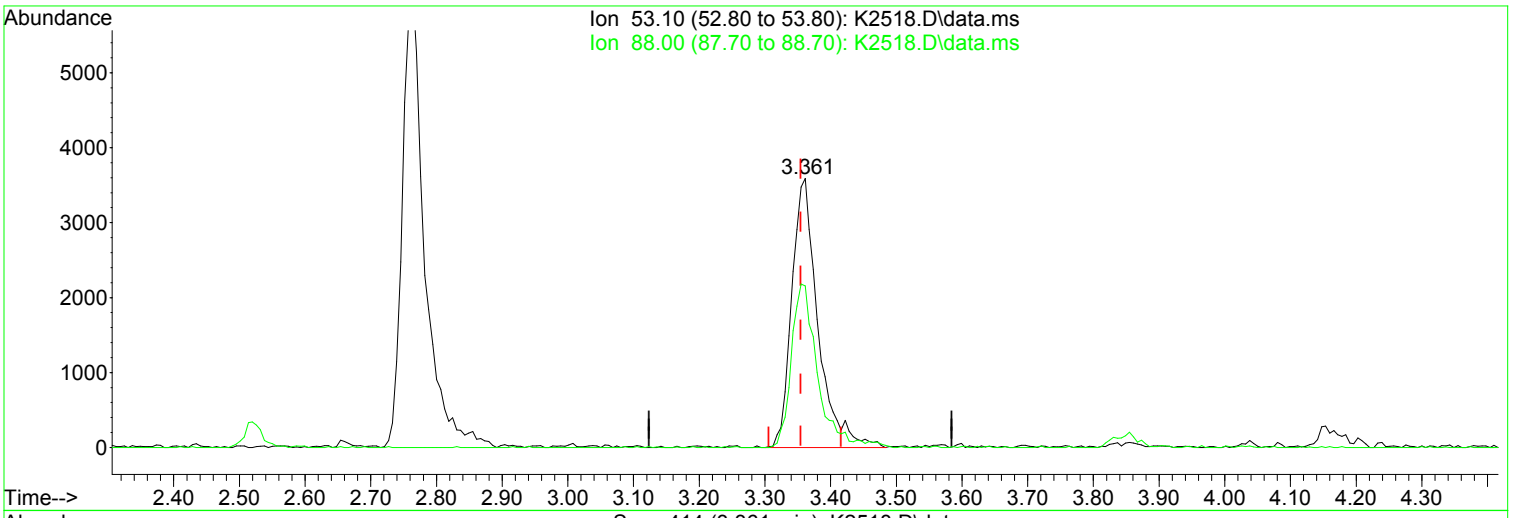
Before

06/05/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2518.D
Acq On : 04 Jun 2024 03:53 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 05 09:54:04 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration



TIC: K2518.D\data.ms

(31) 2-Chloro-1,3-Butadiene

3.361min (+ 0.006) 1.95 ug/L m

response 9909

Ion	Exp%	Act%
53.10	100.00	100.00
88.00	63.70	60.04
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

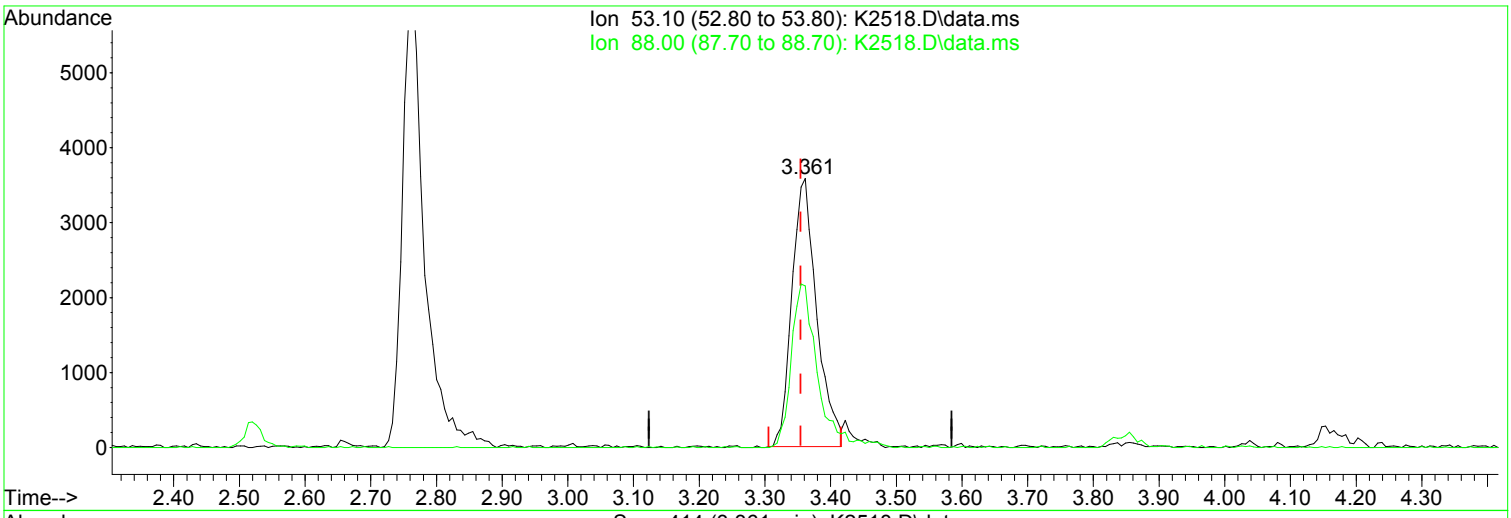
Poor integration.

06/05/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2518.D
Acq On : 04 Jun 2024 03:53 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 05 09:54:04 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration



TIC: K2518.D\data.ms

(31) 2-Chloro-1,3-Butadiene

3.361min (+ 0.006) 1.85 ug/L

response 9355

Ion	Exp%	Act%
53.10	100.00	100.00
88.00	63.70	60.04
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

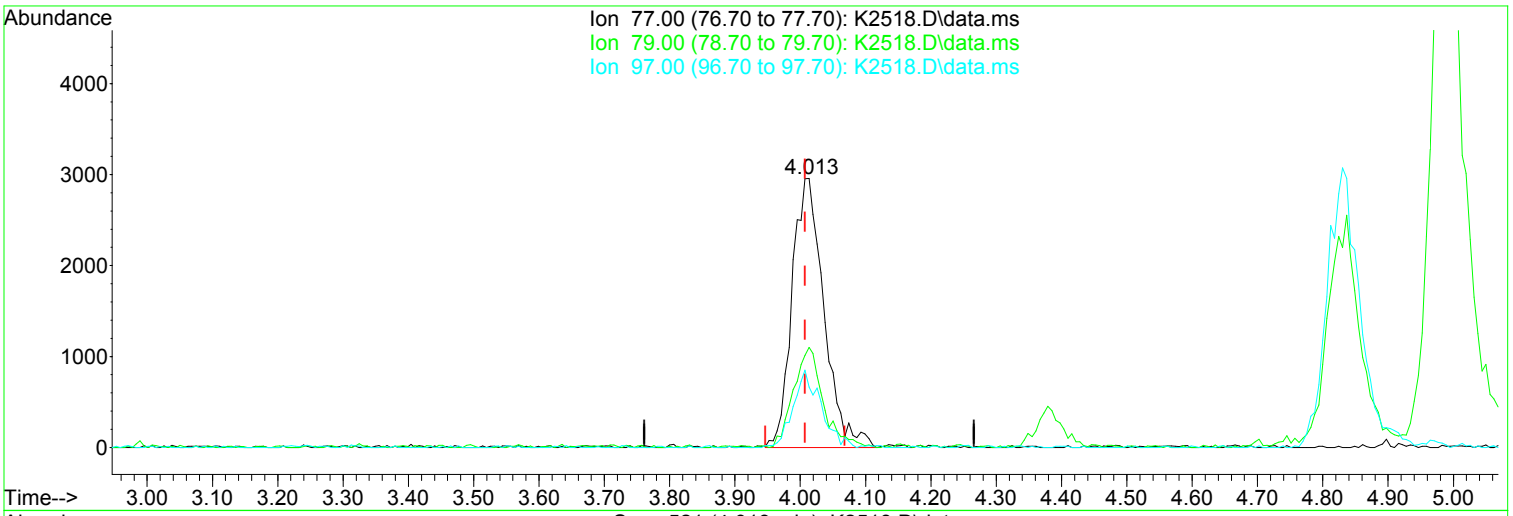
06/05/24

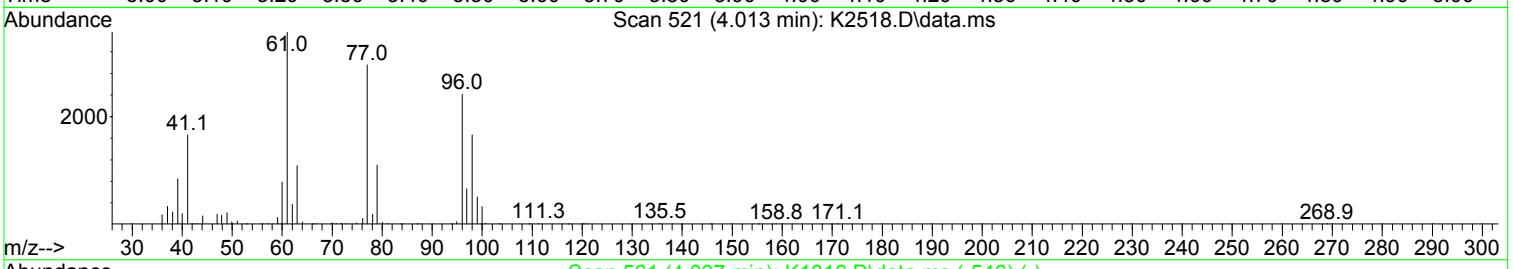
1st 06/05/24
2nd 06/06/24

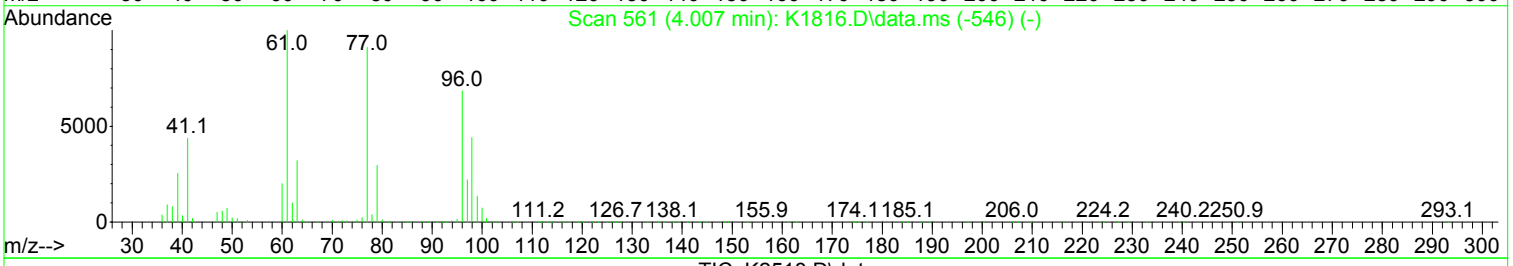
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2518.D
Acq On : 04 Jun 2024 03:53 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 05 09:54:04 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2518.D\data.ms

(33) 2,2-Dichloropropane

4.013min (+ 0.006) 2.11 ug/L m

response 10021

Ion	Exp%	Act%
77.00	100.00	100.00
79.00	32.60	37.20
97.00	24.30	22.52
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

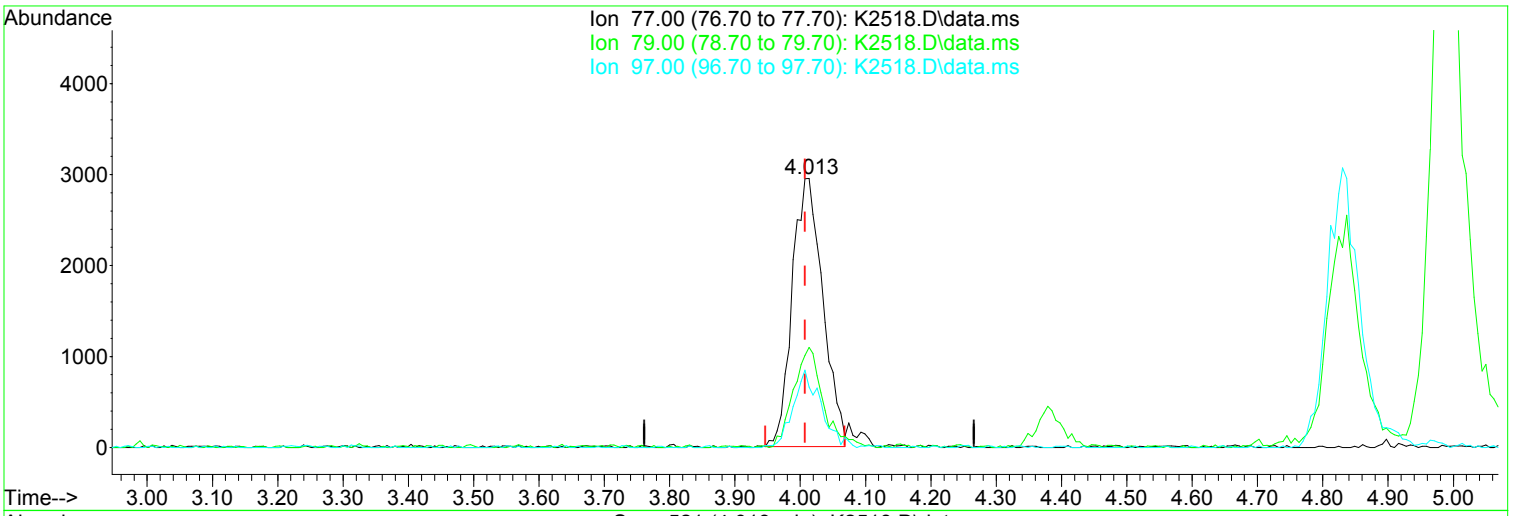
06/05/24

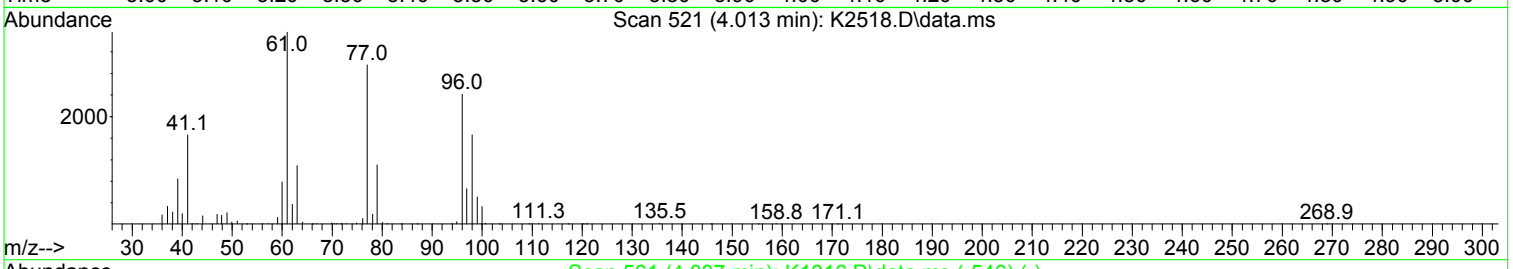
1st 06/05/24
2nd 06/06/24

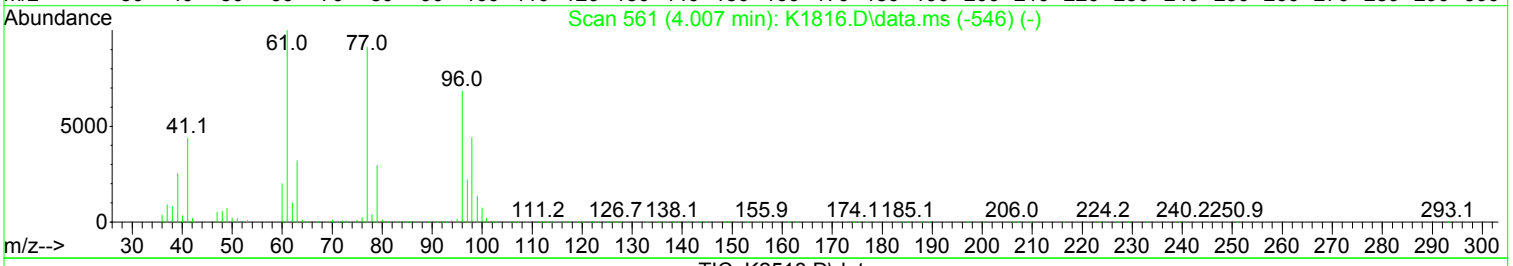
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2518.D
Acq On : 04 Jun 2024 03:53 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 05 09:54:04 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2518.D\data.ms

(33) 2,2-Dichloropropane

4.013min (+ 0.006) 2.02 ug/L

response 9591

Ion	Exp%	Act%
77.00	100.00	100.00
79.00	32.60	37.20
97.00	24.30	22.52
0.00	0.00	0.00

Manual Integration:

Before

06/05/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2518.D
Acq On : 04 Jun 2024 03:53 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 05 09:54:04 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.989	168	399118	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.172	114	613050	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.573	117	532246	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	11.646	152	256000	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.824	113	39753	9.62	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 19.24%#				
48) surr1,1,2-dichloroetha...	5.422	65	49521	9.89	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 19.78%#				
65) SURR3,Toluene-d8	8.049	98	145290	10.15	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 20.30%#				
70) SURR2,BFB	10.665	95	53288	9.90	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 19.80%#				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.087	51	6179	1.876	ug/L		92
3) Dichlorodifluoromethane	1.075	85	8351	1.767	ug/L		97
4) Chloromethane	1.197	50	9268	2.073	ug/L		99
5) Vinyl Chloride	1.264	62	7610	1.903	ug/L		99
6) Bromomethane	1.471	94	5112	2.457	ug/L		96
7) Chloroethane	1.538	64	5237	2.206	ug/L		95
8) Freon 21	1.679	67	11670	2.052	ug/L		99
9) Trichlorofluoromethane	1.721	101	10665	1.952	ug/L		98
10) Diethyl Ether	1.935	59	5654	2.008	ug/L		95
11) Freon 123a	1.941	67	6806	2.038	ug/L		100
12) Freon 123	1.989	83	8863	2.103	ug/L		94
13) Acrolein	2.026	56	4260m	10.303	ug/L		
14) 1,1-Diclethene	2.105	96	6071	1.991	ug/L		91
15) Freon 113	2.111	101	5999	1.900	ug/L		97
16) Acetone	2.160	43	2911	2.559	ug/L		82
17) 2-Propanol	2.276	45	8844m	38.748	ug/L		
18) Iodomethane	2.227	142	2329	0.951	ug/L		95
19) Carbon Disulfide	2.282	76	16178	1.916	ug/L		94
20) Acetonitrile	2.404	41	5670m	5.157	ug/L		
21) Allyl Chloride	2.410	76	3141	2.001	ug/L	#	87
22) Methyl Acetate	2.434	43	6299	1.950	ug/L		87
23) Methylene Chloride	2.520	84	6661	2.051	ug/L	#	82
24) TBA	2.648	59	18008	38.265	ug/L		94
25) Acrylonitrile	2.764	53	14090	10.055	ug/L		83
26) Methyl-t-Butyl Ether	2.800	73	20198	1.991	ug/L		96
27) trans-1,2-Dichloroethene	2.782	96	6464	2.008	ug/L		95
28) 1,1-Diclethane	3.245	63	11912	1.990	ug/L		98
29) Vinyl Acetate	3.331	86	776	1.907	ug/L	#	63
30) DIPE	3.361	45	16608m	1.944	ug/L		
31) 2-Chloro-1,3-Butadiene	3.361	53	9909m	1.955	ug/L		
32) ETBE	3.855	59	20805	1.913	ug/L		96
33) 2,2-Dichloropropane	4.013	77	10021m	2.112	ug/L		
34) cis-1,2-Dichloroethene	4.020	96	7346	2.155	ug/L		93
35) 2-Butanone	4.087	43	2785	1.871	ug/L		83
36) Propionitrile	4.166	54	5684	9.838	ug/L		91
37) Bromochloromethane	4.385	130	4847	2.118	ug/L		91
38) Methacrylonitrile	4.410	67	3041	1.987	ug/L	#	73
39) Tetrahydrofuran	4.501	42	2004	2.042	ug/L		92
40) Chloroform	4.556	83	11560	1.970	ug/L		94

1st 06/05/24
2nd 06/06/24

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2518.D
Acq On : 04 Jun 2024 03:53 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 05 09:54:04 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 1,1,1-Trichloroethane	4.830	97	10708	1.916	ug/L		98
42) TAME	5.769	73	18819	1.971	ug/L		95
44) Cyclohexane	4.904	41	5112	1.988	ug/L		90
46) Carbontetrachloride	5.123	117	11039	1.938	ug/L		90
47) 1,1-Dichloropropene	5.147	75	8540	1.965	ug/L		93
49) Benzene	5.501	78	23778	2.011	ug/L		93
50) 1,2-Dichloroethane	5.550	62	10385	1.900	ug/L		91
51) Iso-Butyl Alcohol	5.568	43	4700	32.555	ug/L		93
52) n-Heptane	6.025	43	6307	1.807	ug/L		91
53) 1-Butanol	6.598	56	7867	75.436	ug/L		98
54) Trichloroethene	6.507	130	7502	1.948	ug/L		96
55) Methylcyclohexane	6.745	55	8151	1.876	ug/L	#	84
56) 1,2-Diclpropane	6.806	63	6446	1.916	ug/L		97
57) Dibromomethane	6.952	93	4436	1.916	ug/L		97
58) 1,4-Dioxane	7.037	88	1979	37.701	ug/L		97
59) Methyl Methacrylate	7.056	69	4462	1.924	ug/L		92
60) Bromodichloromethane	7.196	83	8552	1.832	ug/L		95
61) 2-Nitropropane	7.501	41	3886	3.617	ug/L		88
62) 2-Chloroethylvinyl Ether	7.623	63	4335	1.907	ug/L		82
63) cis-1,3-Dichloropropene	7.751	75	8945	1.819	ug/L		98
64) 4-Methyl-2-pentanone	7.982	43	6037	1.883	ug/L		97
66) Toluene	8.122	91	27394	2.012	ug/L		99
67) trans-1,3-Dichloropropene	8.415	75	8009	1.742	ug/L		96
68) Ethyl Methacrylate	8.561	69	7968	1.803	ug/L		92
69) 1,1,2-Trichloroethane	8.598	97	6271	1.923	ug/L		96
72) Tetrachloroethene	8.726	164	5743	1.967	ug/L		97
73) 2-Hexanone	8.915	43	4467	1.995	ug/L		89
74) 1,3-Dichloropropane	8.775	76	9897	1.981	ug/L		92
75) Dibromochloromethane	9.000	129	7203	1.788	ug/L		96
76) N-Butyl Acetate	9.074	43	8778	1.830	ug/L		97
77) 1,2-Dibromoethane	9.098	107	6096	1.917	ug/L		98
78) 3-Chlorobenzotrifluoride	9.628	180	9967	1.874	ug/L		94
79) Chlorobenzene	9.598	112	19341	2.039	ug/L		98
80) 4-Chlorobenzotrifluoride	9.689	180	9191	1.914	ug/L		97
81) 1,1,1,2-Tetrachloroethane	9.695	131	7301	1.923	ug/L		96
82) Ethylbenzene	9.726	106	9982	2.006	ug/L		97
83) (m+p)Xylene	9.842	106	24011	3.988	ug/L		99
84) o-Xylene	10.201	106	12010	2.006	ug/L		93
85) Styrene	10.220	104	18780	1.905	ug/L		97
86) Bromoform	10.366	173	4027	1.700	ug/L		91
87) 2-Chlorobenzotrifluoride	10.457	180	9719	1.905	ug/L		92
88) Isopropylbenzene	10.543	105	30995	1.997	ug/L		98
89) Cyclohexanone	10.610	55	13879	40.306	ug/L		98
90) trans-1,4-Dichloro-2-B...	10.860	53	2379	1.909	ug/L		82
92) 1,1,2,2-Tetrachloroethane	10.811	83	8370	2.068	ug/L		95
93) Bromobenzene	10.787	156	8406	2.154	ug/L		93
94) 1,2,3-Trichloropropane	10.835	110	3110	2.091	ug/L		97
95) n-Propylbenzene	10.896	91	34647	2.116	ug/L		98
96) 2-Chlorotoluene	10.957	91	21100	2.091	ug/L		92
97) 3-Chlorotoluene	11.012	91	22861	2.096	ug/L		98
98) 4-Chlorotoluene	11.055	91	24845	2.126	ug/L		98
99) 1,3,5-Trimethylbenzene	11.055	105	27024	2.103	ug/L		97
100) tert-Butylbenzene	11.329	119	23446	2.079	ug/L		99
101) 1,2,4-Trimethylbenzene	11.366	105	26464	2.059	ug/L		100
102) 3,4-Dichlorobenzotrifl...	11.433	214	6634	1.837	ug/L		94
103) sec-Butylbenzene	11.512	105	32333	2.082	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2518.D
Acq On : 04 Jun 2024 03:53 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 05 09:54:04 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

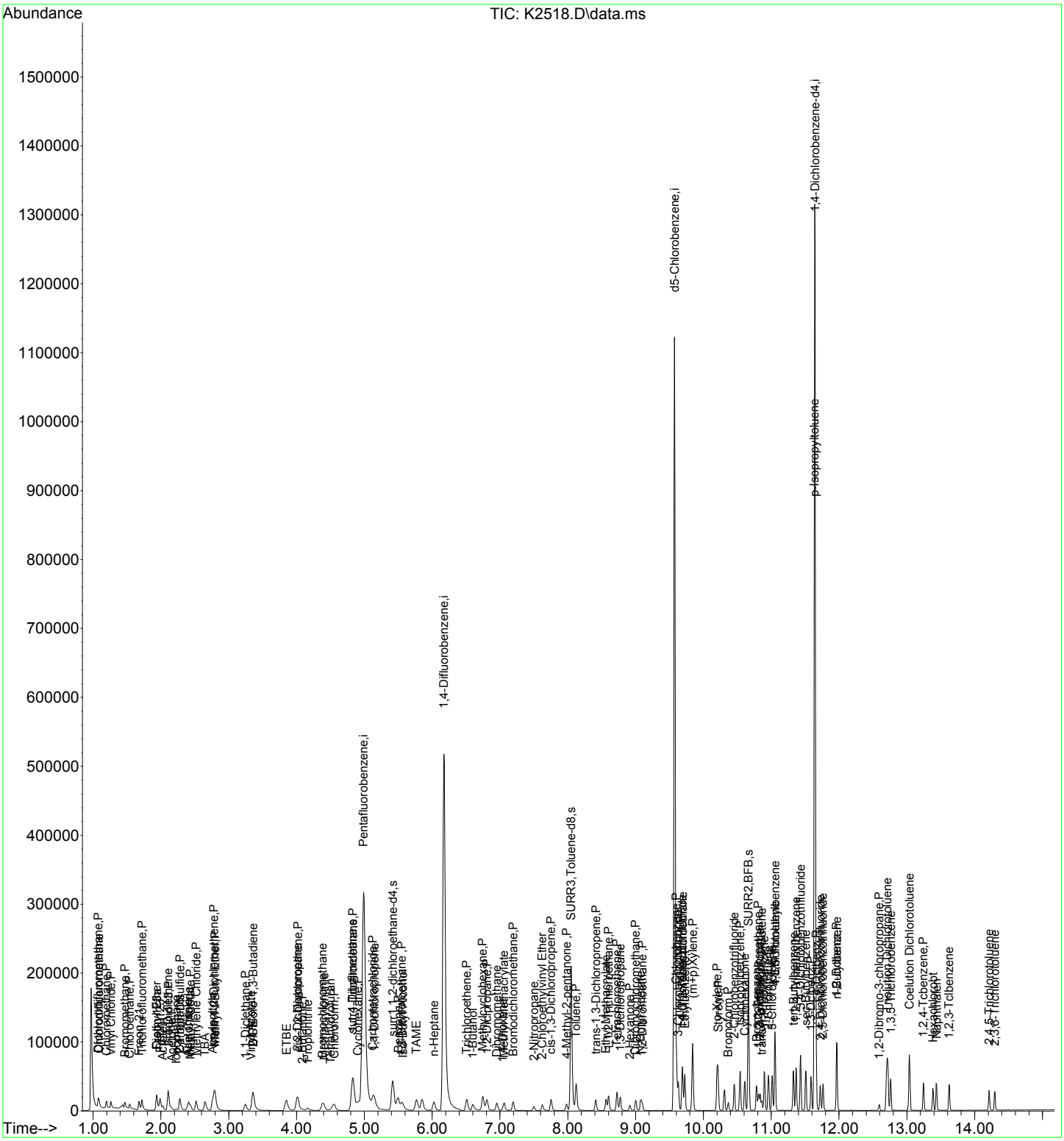
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) p-Isopropyltoluene	11.634	119	27368	2.014	ug/L	97
105) 1,3-Dclbenz	11.585	146	15780	2.090	ug/L	98
106) 1,4-Dclbenz	11.665	146	16371	2.135	ug/L	99
107) 2,4-Dichlorobenzotrifl...	11.725	214	6260	1.978	ug/L	96
108) 2,5-Dichlorobenzotrifl...	11.762	214	6632	1.873	ug/L	92
109) n-Butylbenzene	11.969	91	22509	1.975	ug/L	98
110) 1,2-Dclbenz	11.963	146	15353	2.087	ug/L	97
111) 1,2-Dibromo-3-chloropr...	12.591	157	1816	1.792	ug/L	87
112) Trielution Dichlorotol...	12.713	125	38328	5.722	ug/L	96
113) 1,3,5-Trichlorobenzene	12.762	180	10050	1.936	ug/L	97
114) Coelution Dichlorotoluene	13.036	125	27640	3.891	ug/L	97
115) 1,2,4-Tcbenzene	13.243	180	8890	1.872	ug/L	95
116) Hexachlorobt	13.384	225	4016	1.928	ug/L	96
117) Naphthalen	13.439	128	24725	1.795	ug/L	100
118) 1,2,3-Tclbenzene	13.621	180	8615	1.918	ug/L	94
119) 2,4,5-Trichlorotoluene	14.213	159	5664	1.630	ug/L	98
120) 2,3,6-Trichlorotoluene	14.298	159	5178	1.740	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2518.D
Acq On : 04 Jun 2024 03:53 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

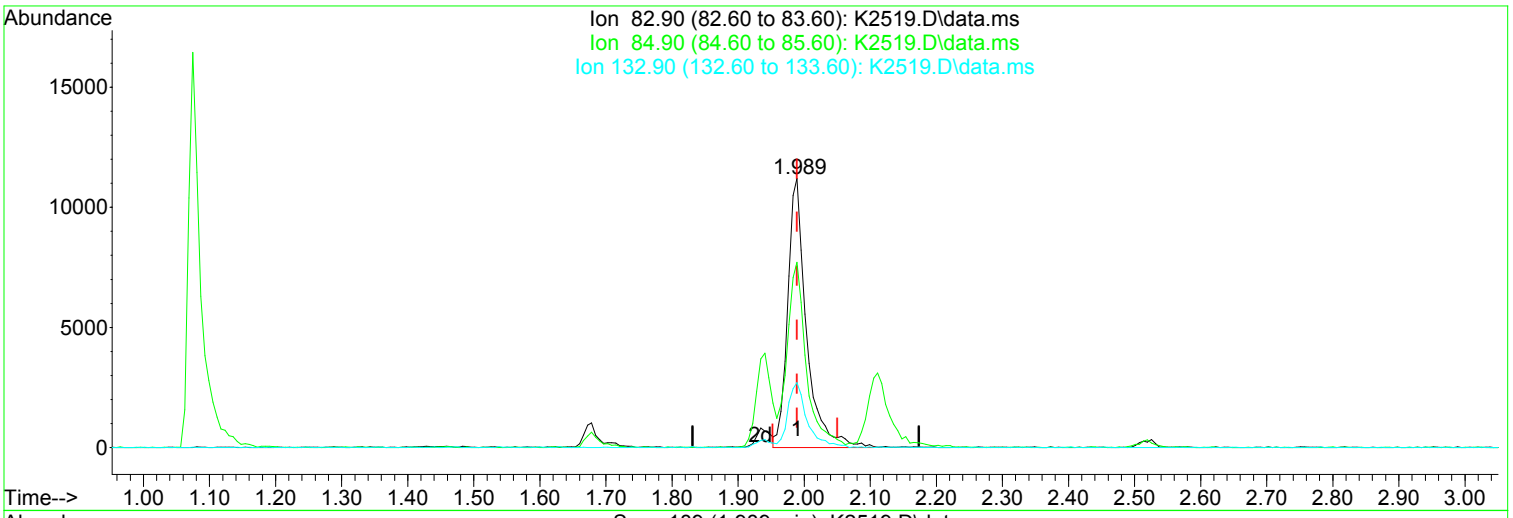
Quant Time: Jun 05 09:54:04 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

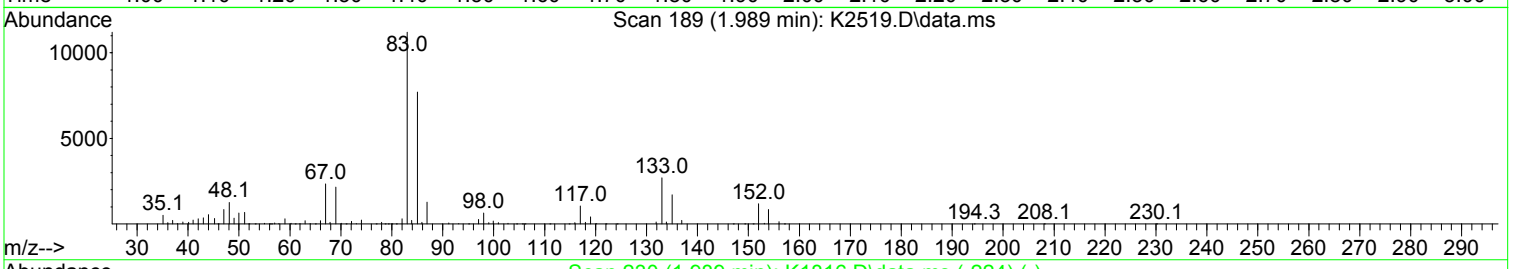


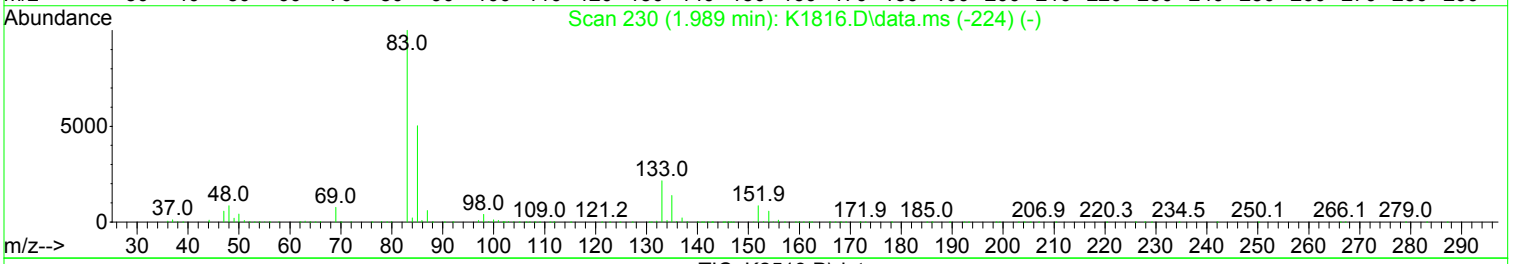
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2519.D
Acq On : 04 Jun 2024 04:15 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 09:54:09 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2519.D\data.ms

(12) Freon 123

1.989min (-0.000) 5.44 ug/L m

response 22174

Ion	Exp%	Act%
82.90	100.00	100.00
84.90	65.70	68.87
132.90	22.20	24.17
0.00	0.00	0.00

Manual Integration:

After

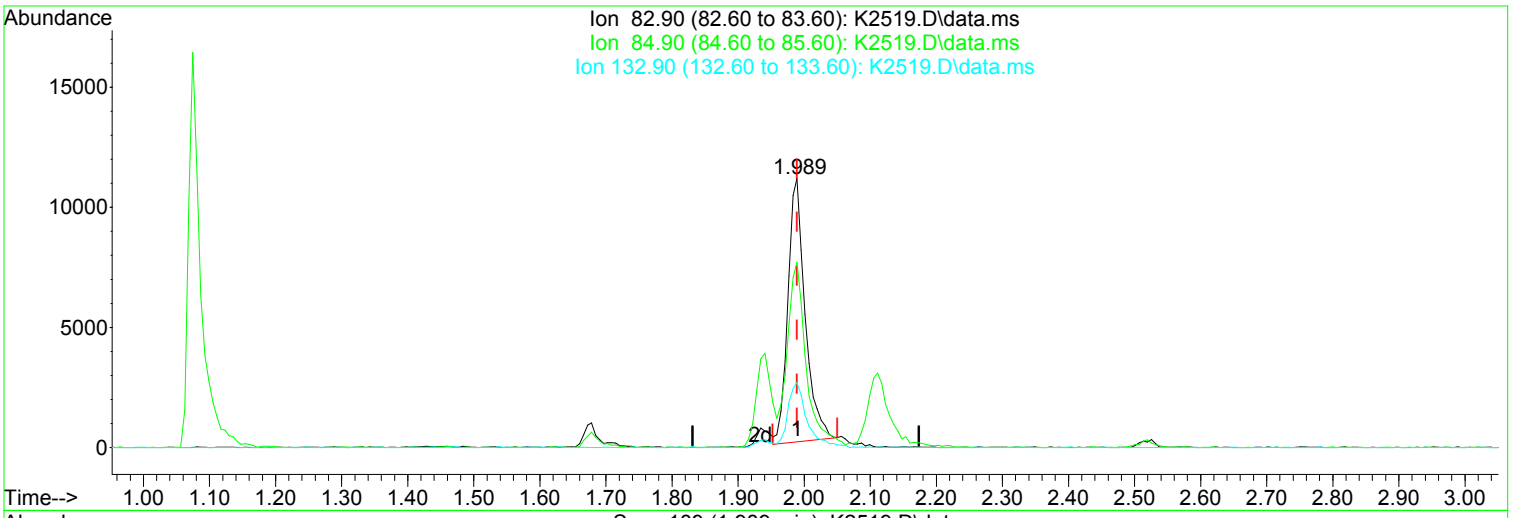
Poor integration.

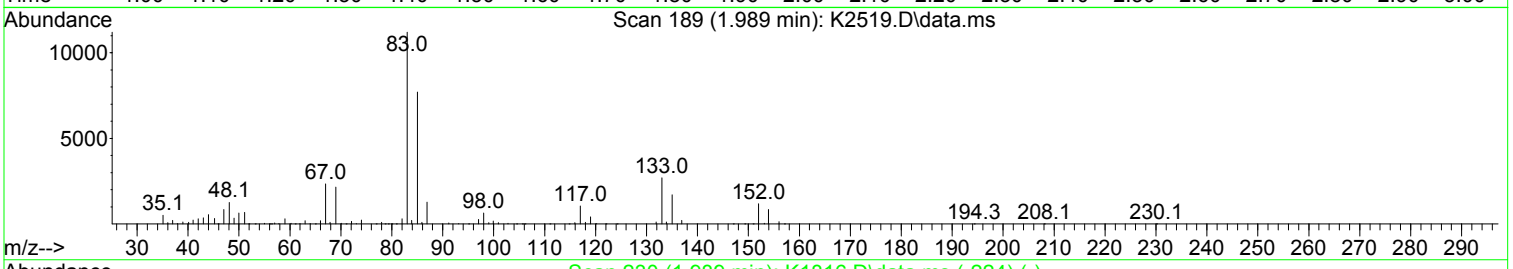
06/05/24

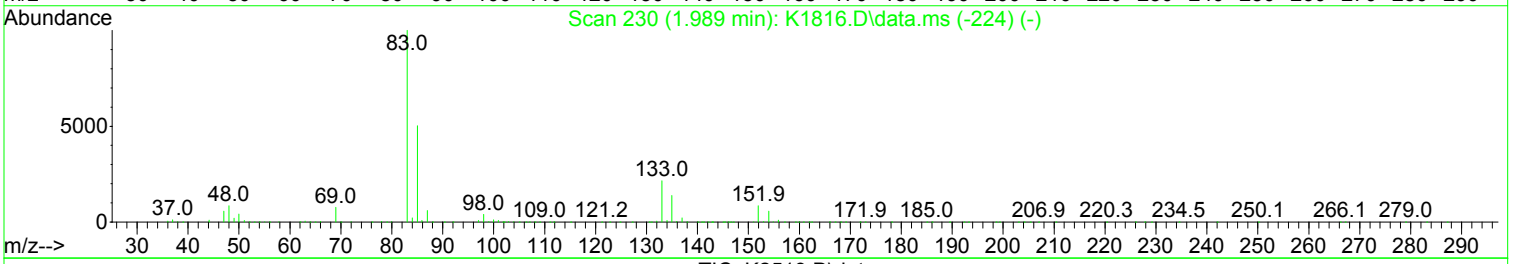
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2519.D
Acq On : 04 Jun 2024 04:15 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 09:54:09 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2519.D\data.ms

(12) Freon 123

1.989min (-0.000) 4.88 ug/L

response 19920

Ion	Exp%	Act%
82.90	100.00	100.00
84.90	65.70	68.87
132.90	22.20	24.17
0.00	0.00	0.00

Manual Integration:

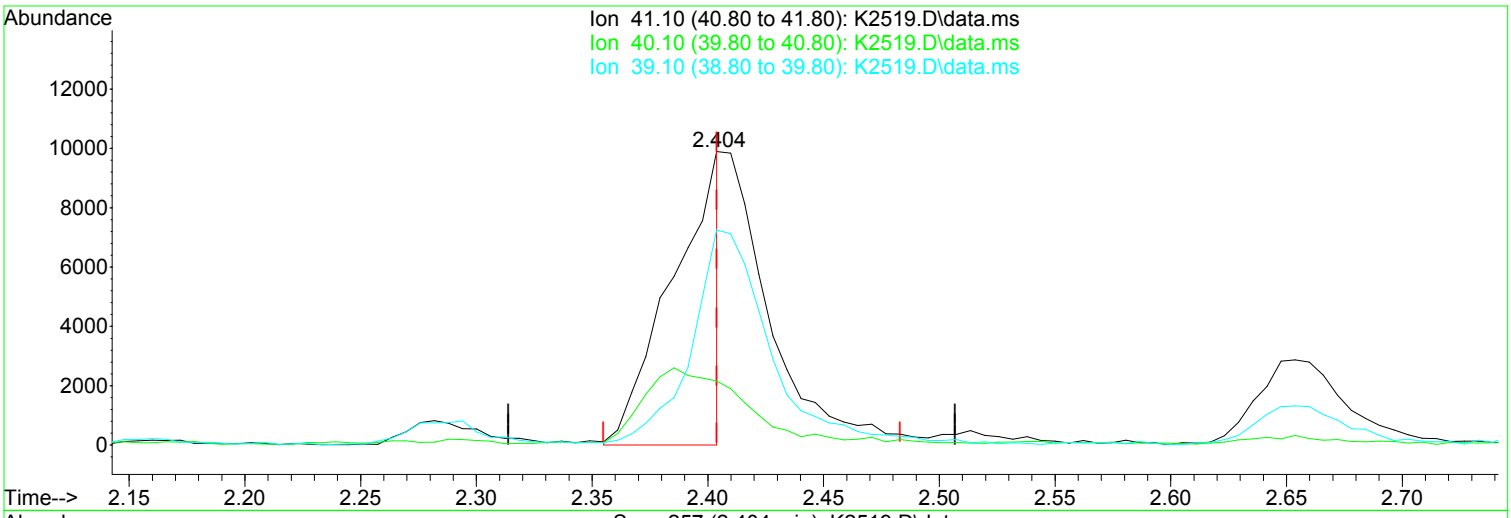
Before

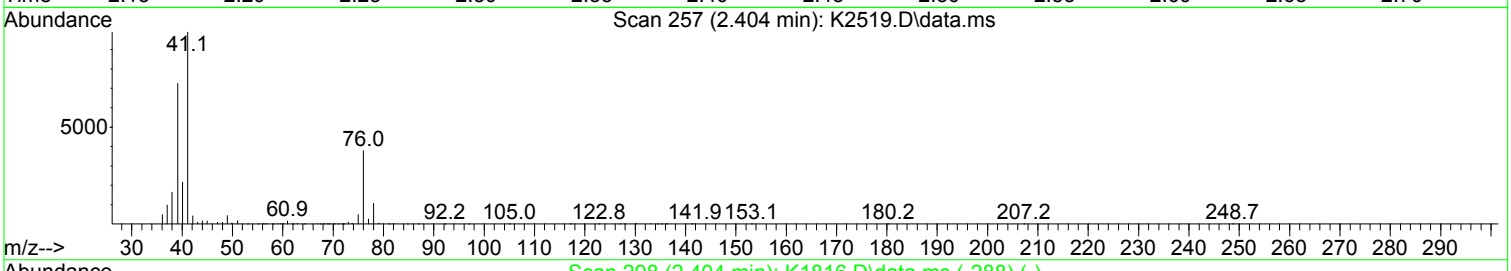
06/05/24

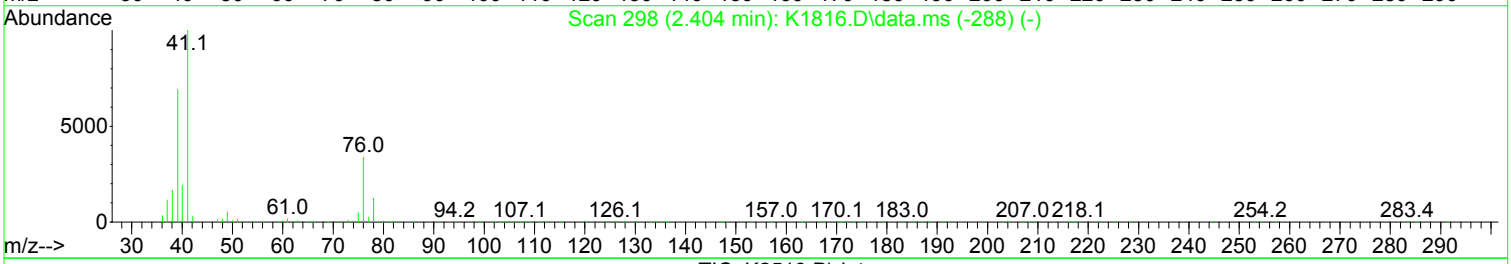
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2519.D
Acq On : 04 Jun 2024 04:15 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 09:54:09 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2519.D\data.ms

(20) Acetonitrile

2.404min (-0.000) 13.78 ug/L m

response 14655

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	19.40	21.84
39.10	69.50	73.25
0.00	0.00	0.00

Manual Integration:

After

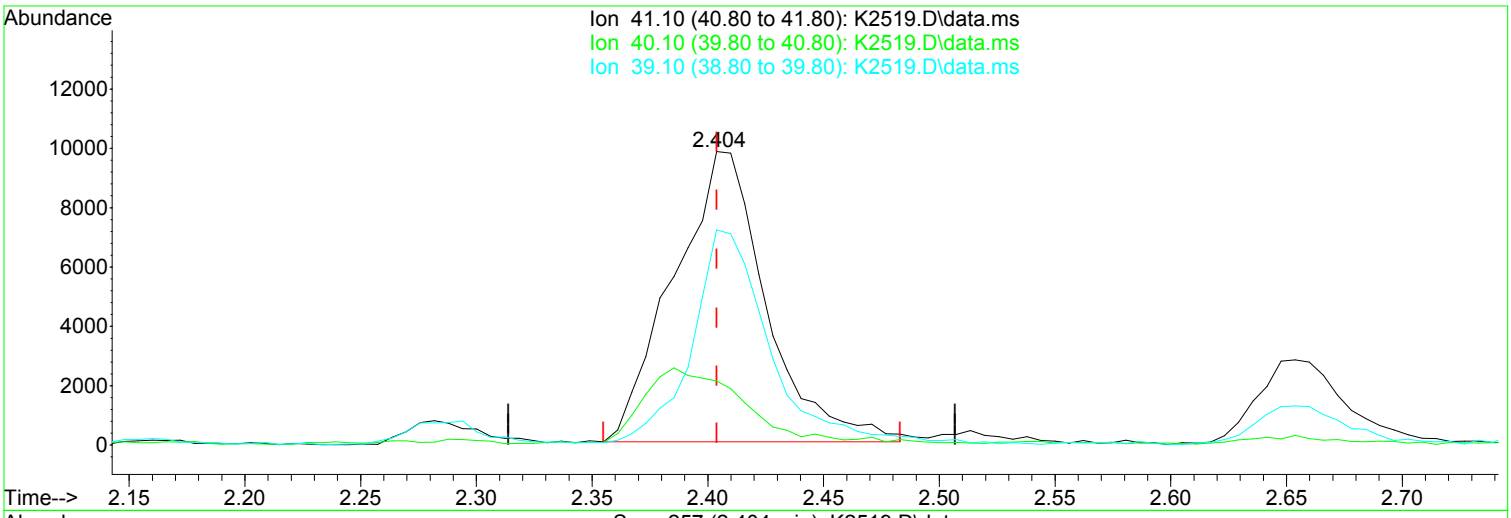
Poor integration.

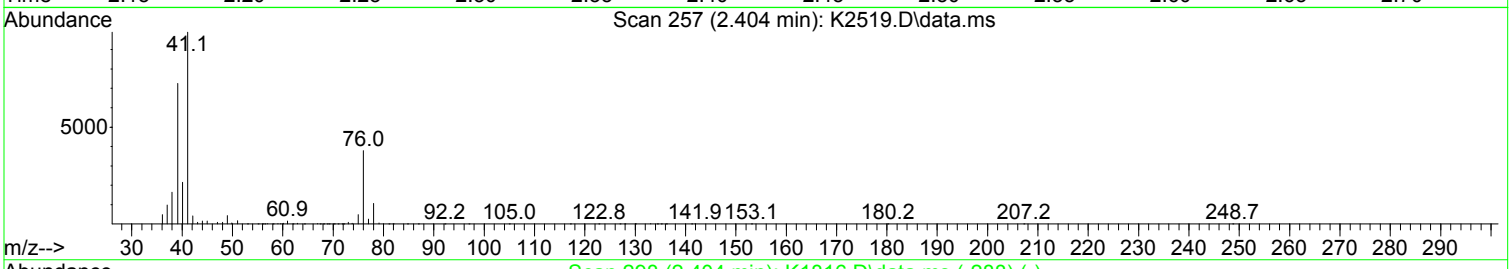
06/05/24

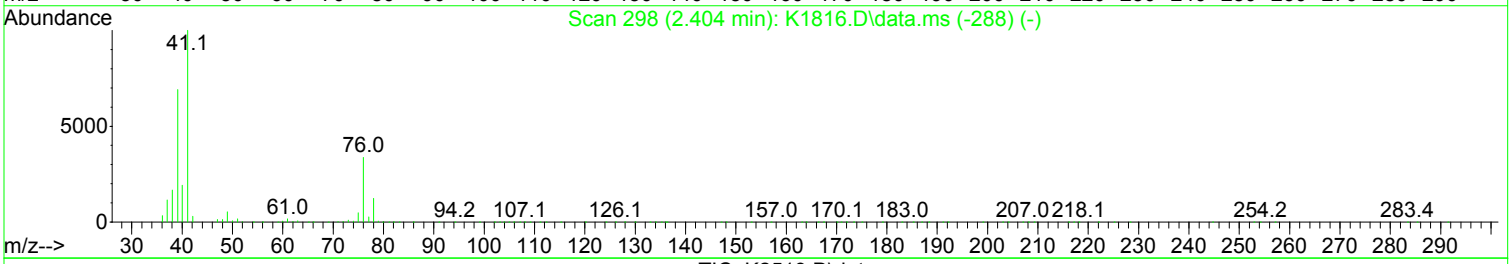
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2519.D
Acq On : 04 Jun 2024 04:15 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 09:54:09 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2519.D\data.ms

(20) Acetonitrile

2.404min (-0.000) 25.60 ug/L

response 27229

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	19.40	21.84
39.10	69.50	73.25
0.00	0.00	0.00

Manual Integration:

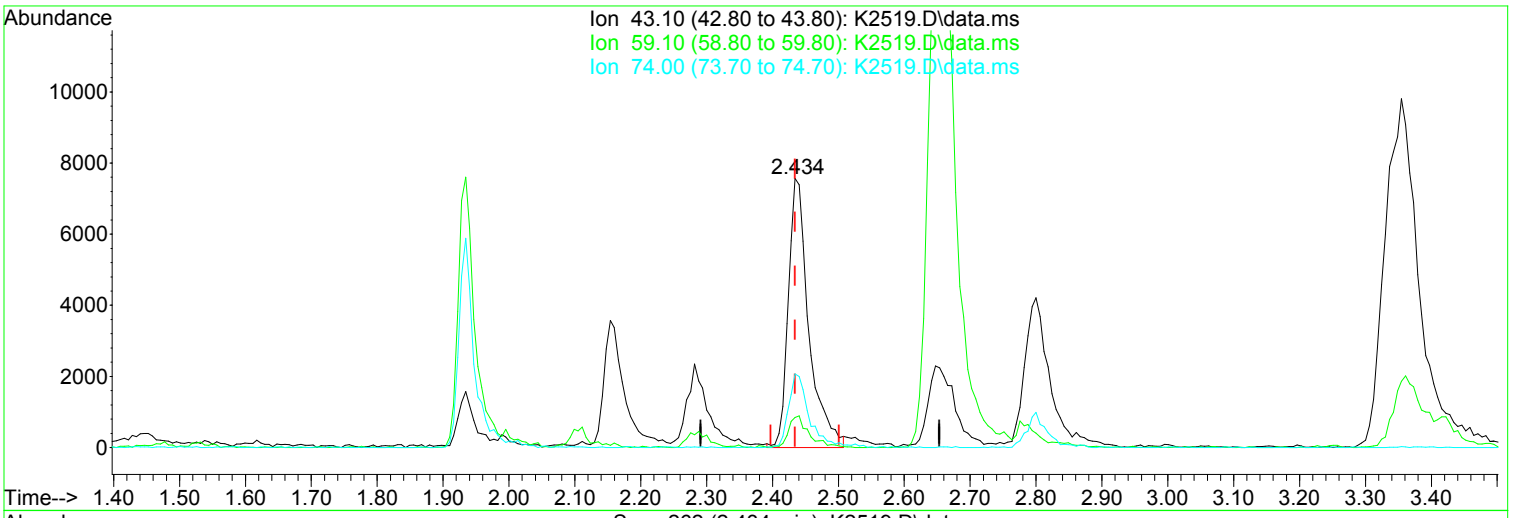
Before

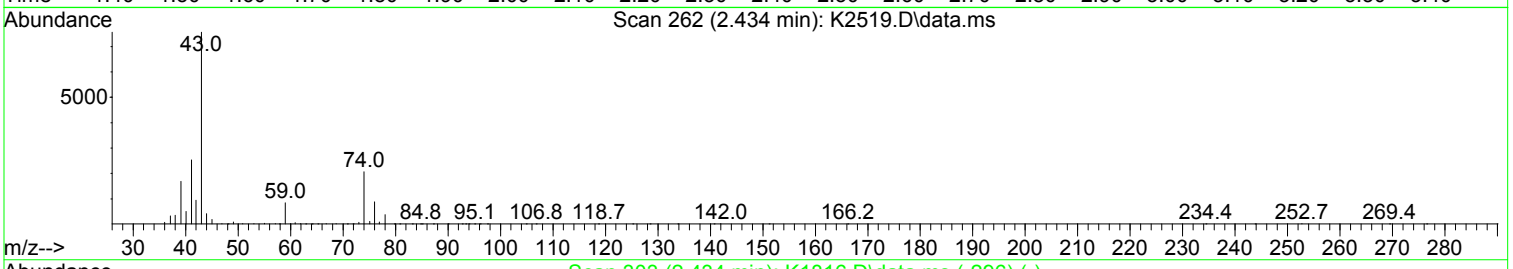
06/05/24

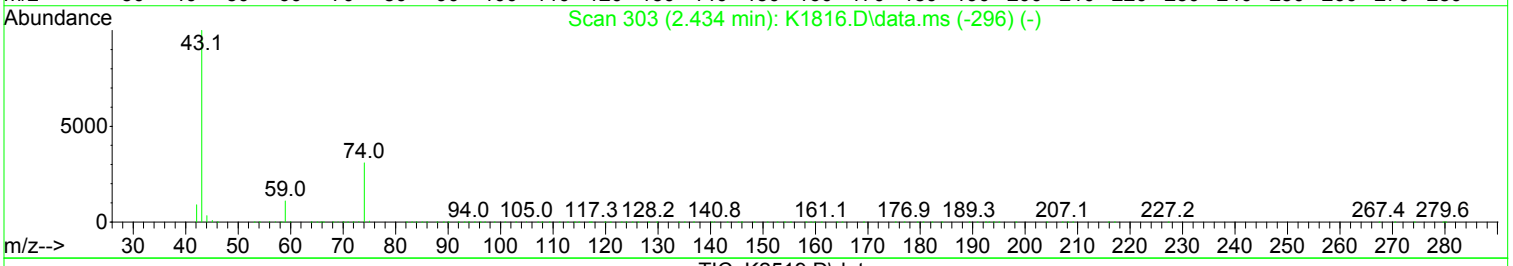
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2519.D
Acq On : 04 Jun 2024 04:15 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 09:54:09 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2519.D\data.ms

(22) Methyl Acetate (P)

2.434min (-0.000) 5.23 ug/L m

response 16338

Ion	Exp%	Act%
43.10	100.00	100.00
59.10	11.10	11.18
74.00	30.90	27.34
0.00	0.00	0.00

Manual Integration:

After

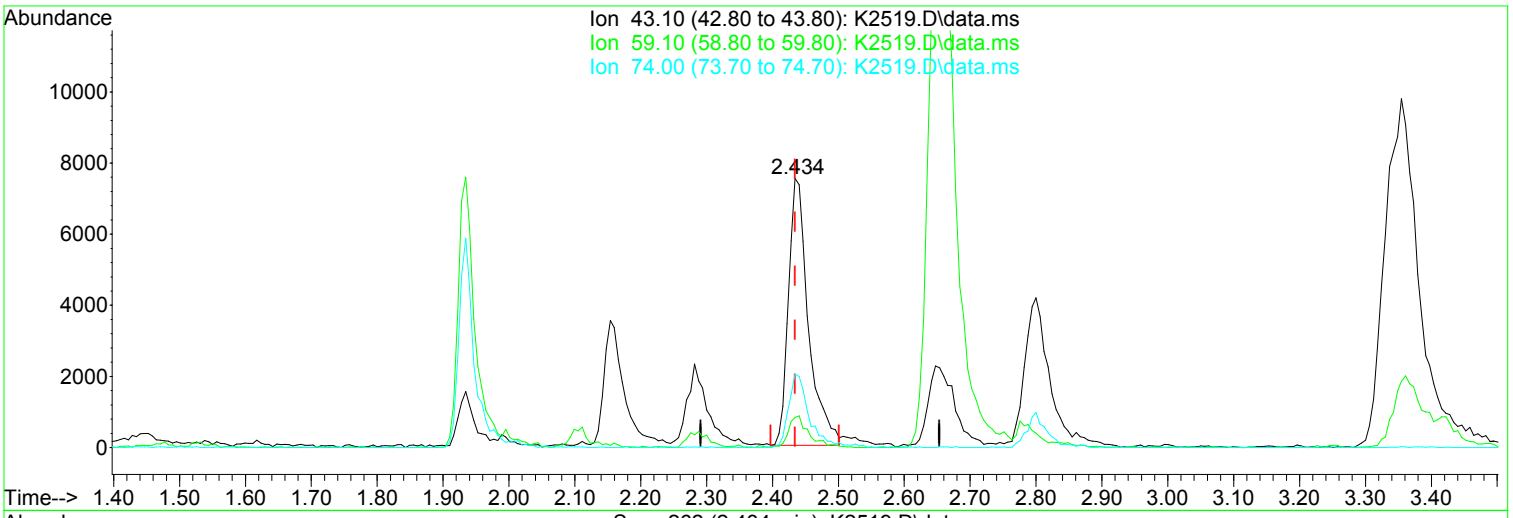
Poor integration.

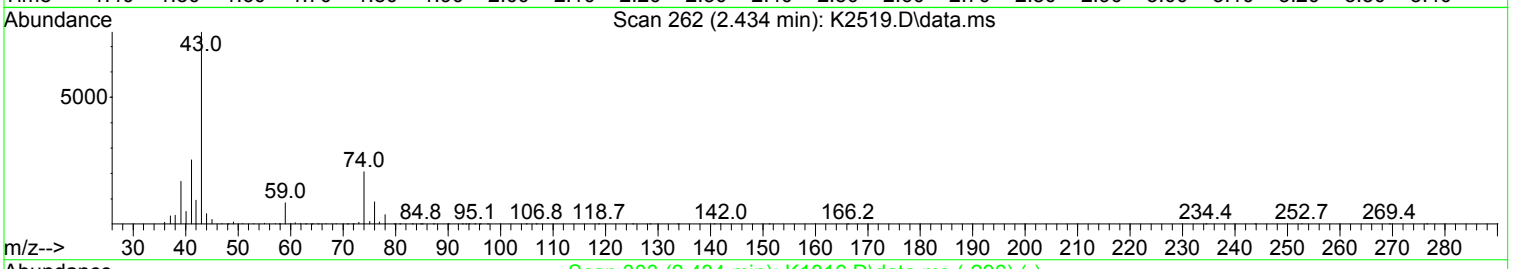
06/05/24

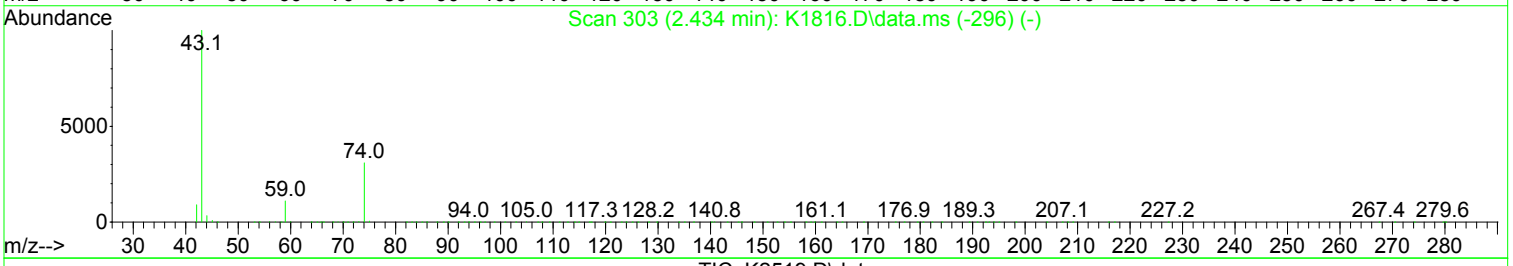
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2519.D
Acq On : 04 Jun 2024 04:15 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 09:54:09 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2519.D\data.ms

(22) Methyl Acetate (P)

2.434min (-0.000) 5.05 ug/L

response 15794

Ion	Exp%	Act%
43.10	100.00	100.00
59.10	11.10	11.18
74.00	30.90	27.34
0.00	0.00	0.00

Manual Integration:

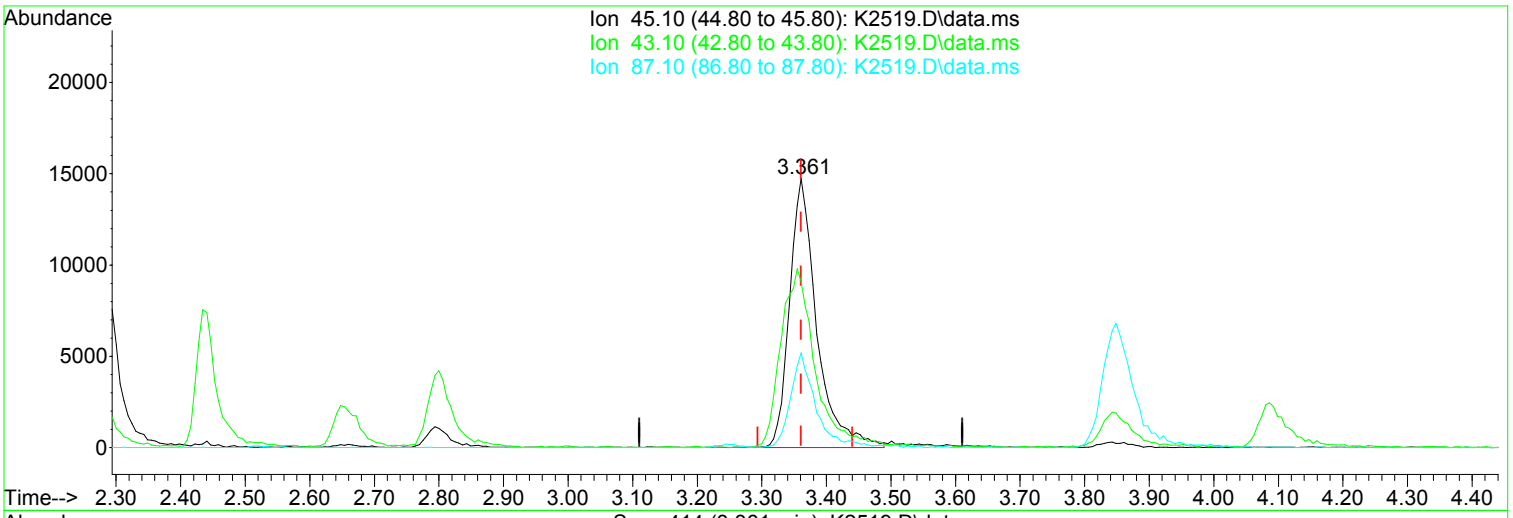
Before

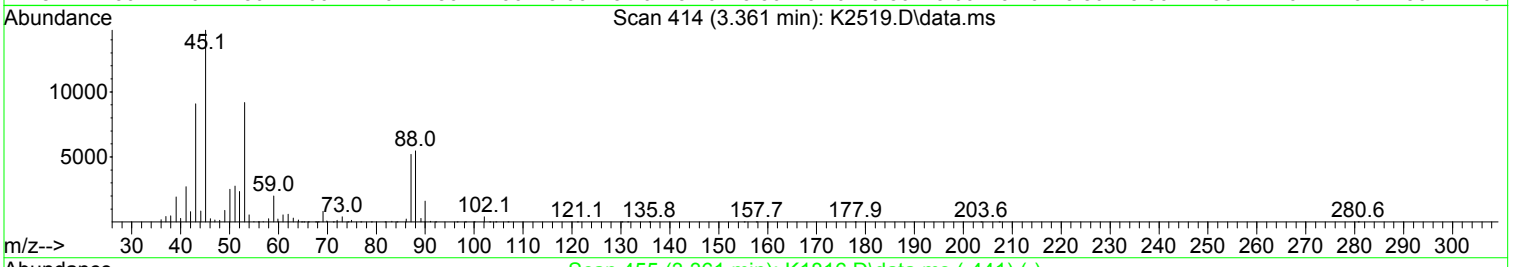
06/05/24

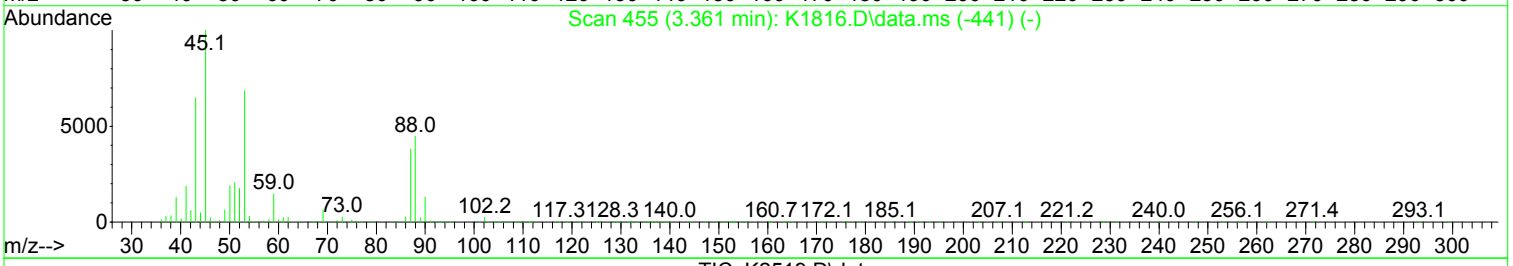
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2519.D
Acq On : 04 Jun 2024 04:15 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 09:54:09 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2519.D\data.ms

(30) DIPE

3.361min (-0.000) 5.20 ug/L m

response 43002

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	64.90	61.63
87.10	38.40	35.23
0.00	0.00	0.00

Manual Integration:

After

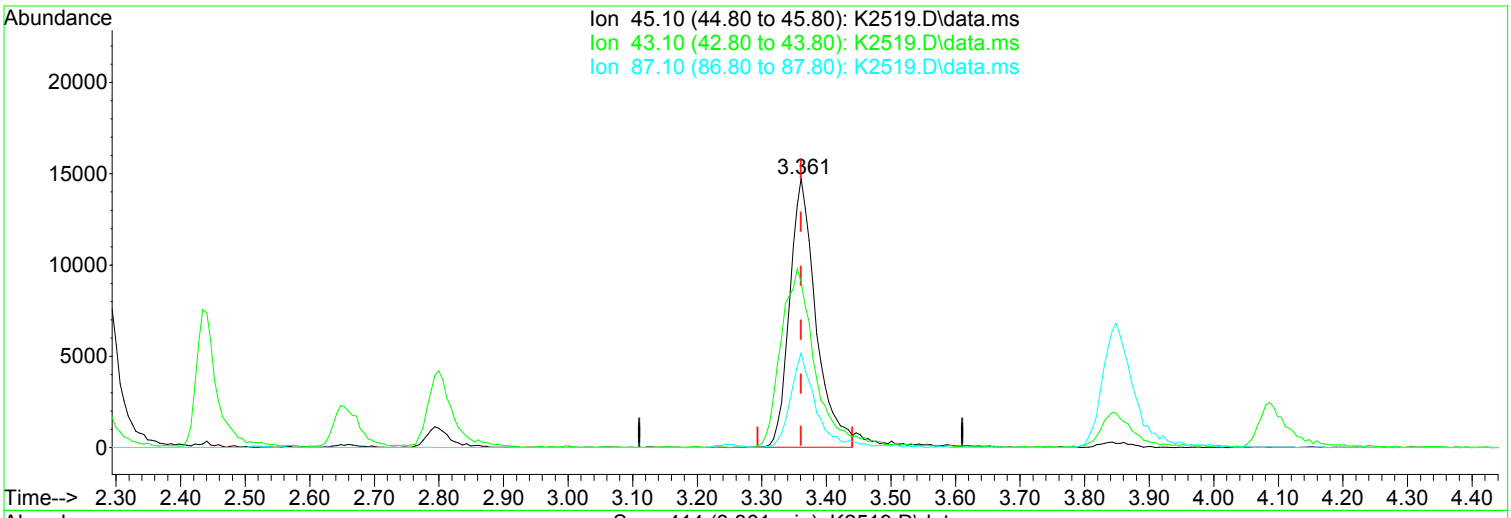
Poor integration.

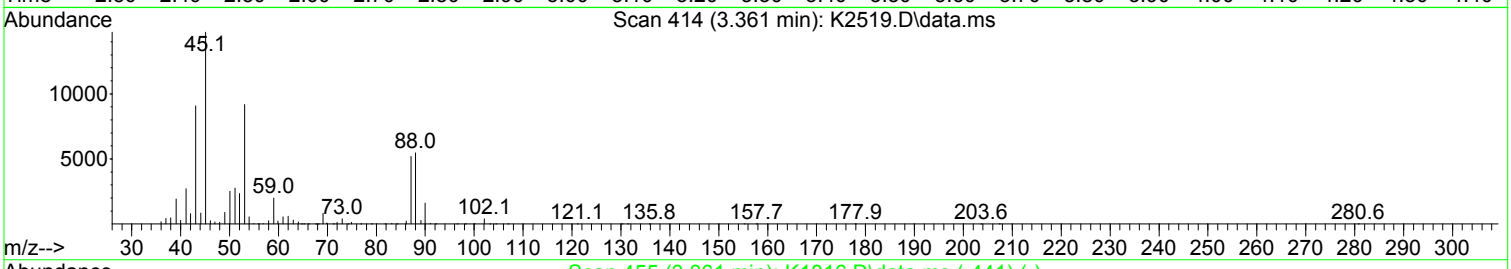
06/05/24

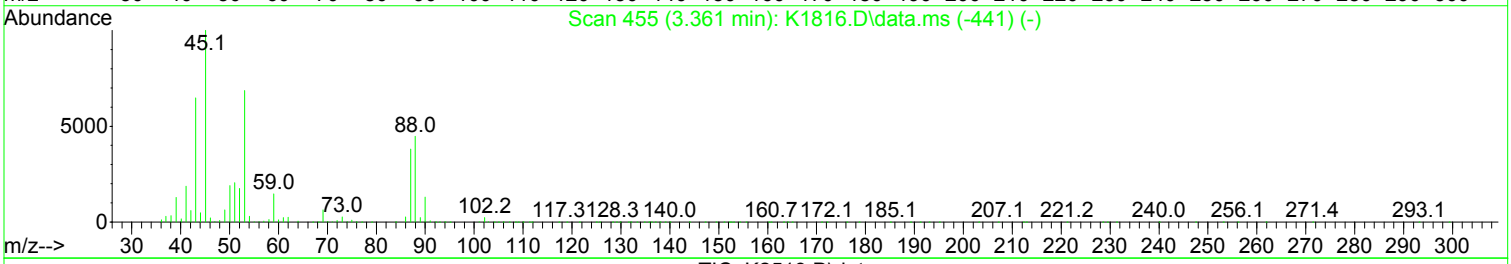
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2519.D
Acq On : 04 Jun 2024 04:15 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 09:54:09 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2519.D\data.ms

(30) DIPE

3.361min (-0.000) 5.03 ug/L

response 41591

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	64.90	61.63
87.10	38.40	35.23
0.00	0.00	0.00

Manual Integration:

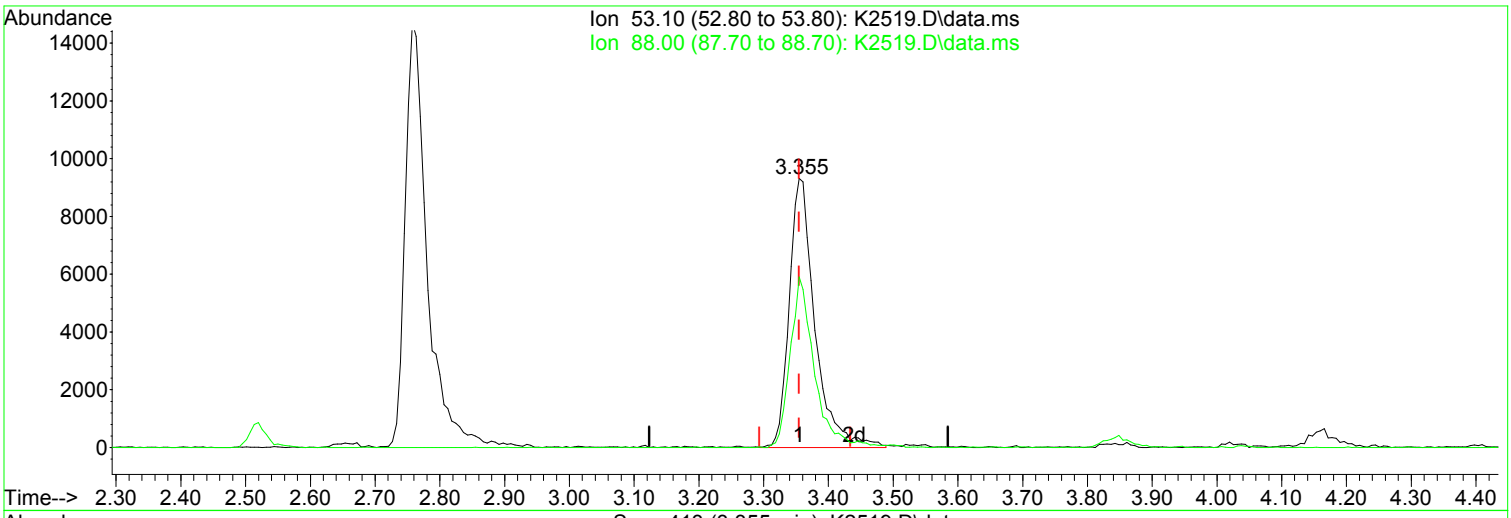
Before

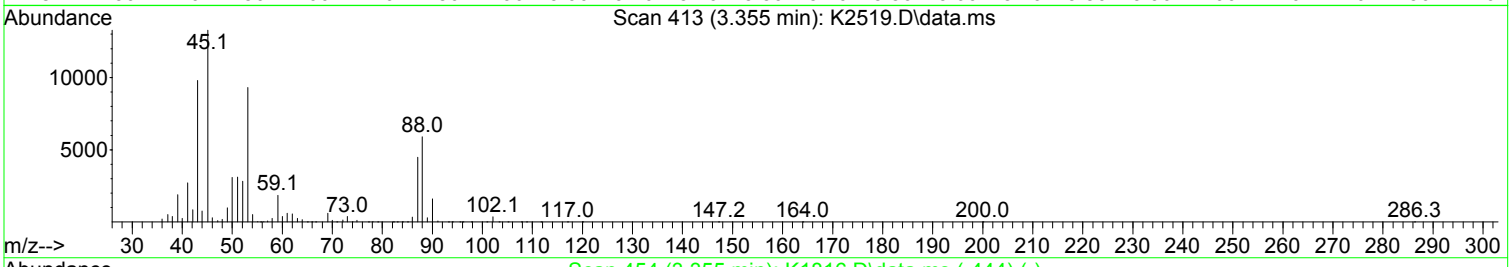
06/05/24

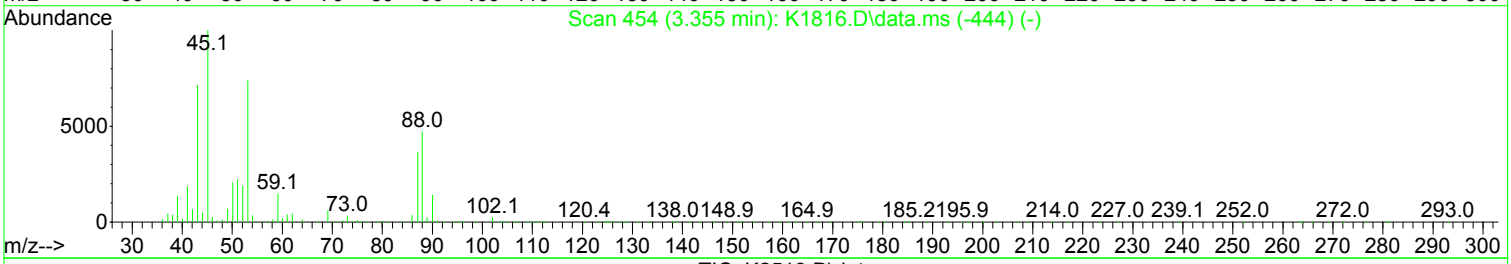
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2519.D
Acq On : 04 Jun 2024 04:15 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 09:54:09 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2519.D\data.ms

(31) 2-Chloro-1,3-Butadiene

3.355min (-0.000) 5.24 ug/L m

response 25683

Ion	Exp%	Act%
53.10	100.00	100.00
88.00	63.70	63.35
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

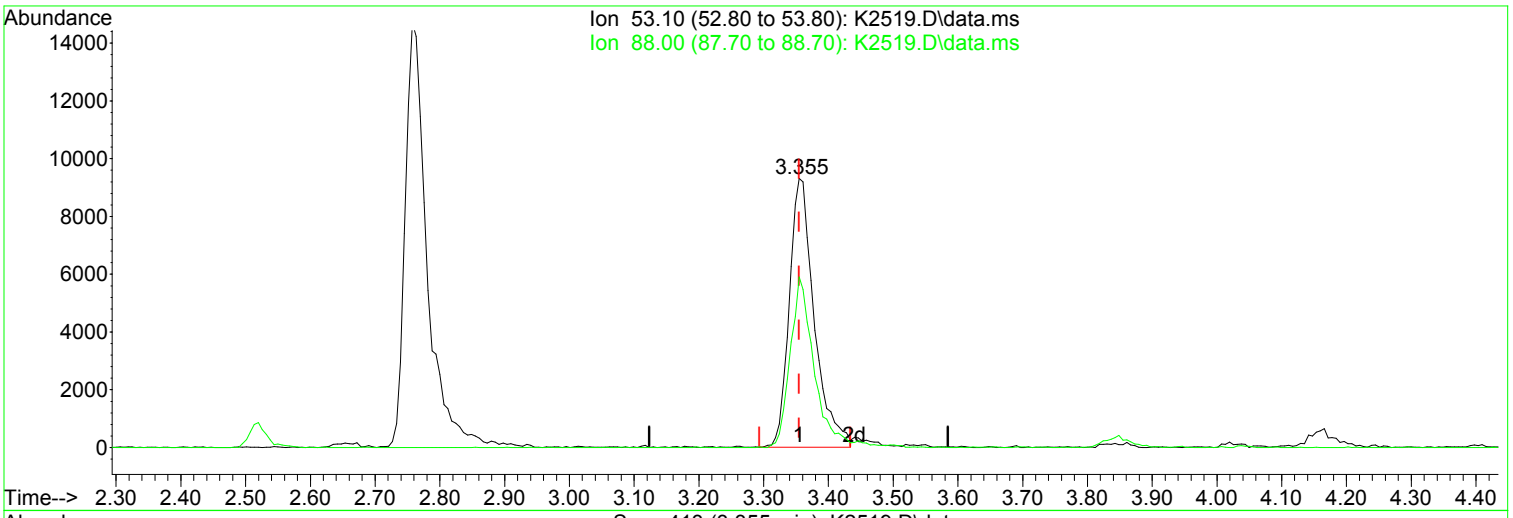
Poor integration.

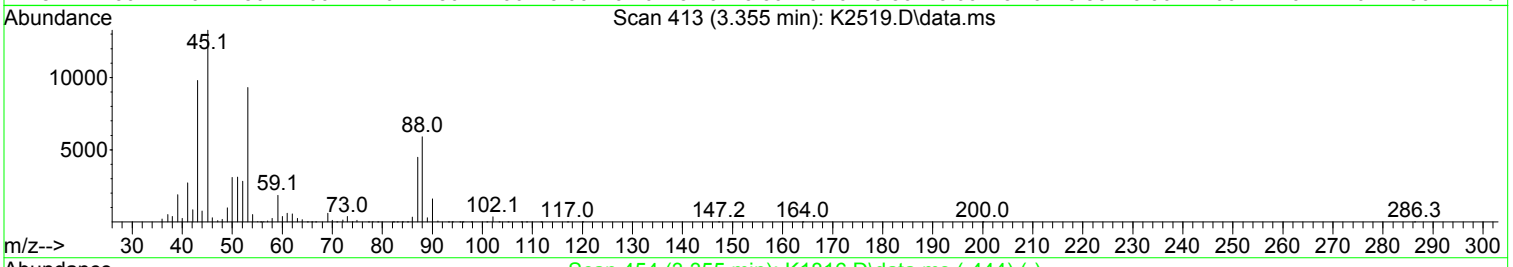
06/05/24

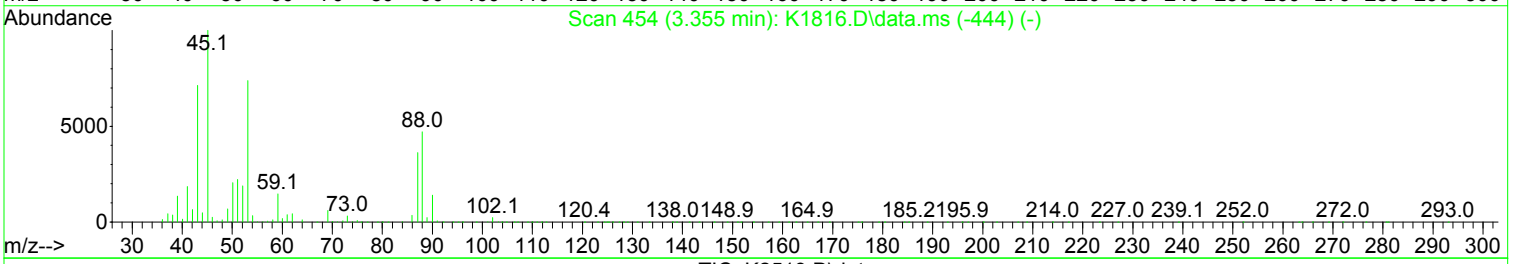
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2519.D
Acq On : 04 Jun 2024 04:15 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 09:54:09 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2519.D\data.ms

(31) 2-Chloro-1,3-Butadiene

3.355min (-0.000) 5.08 ug/L

response 24887

Ion	Exp%	Act%
53.10	100.00	100.00
88.00	63.70	63.35
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

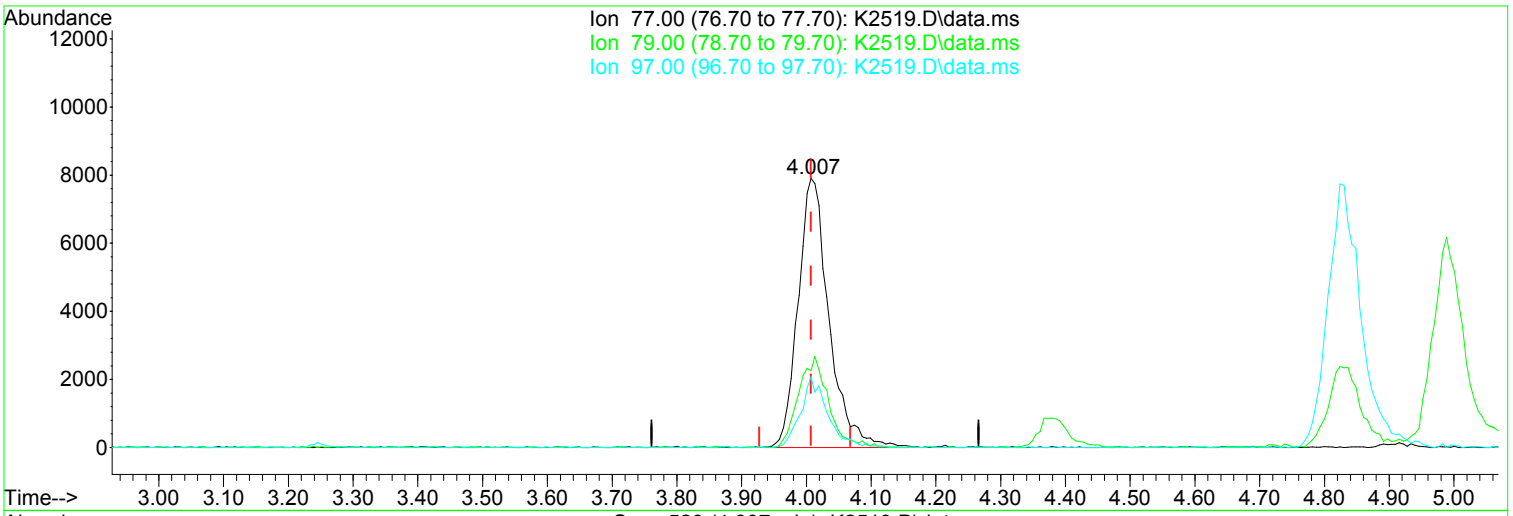
Before

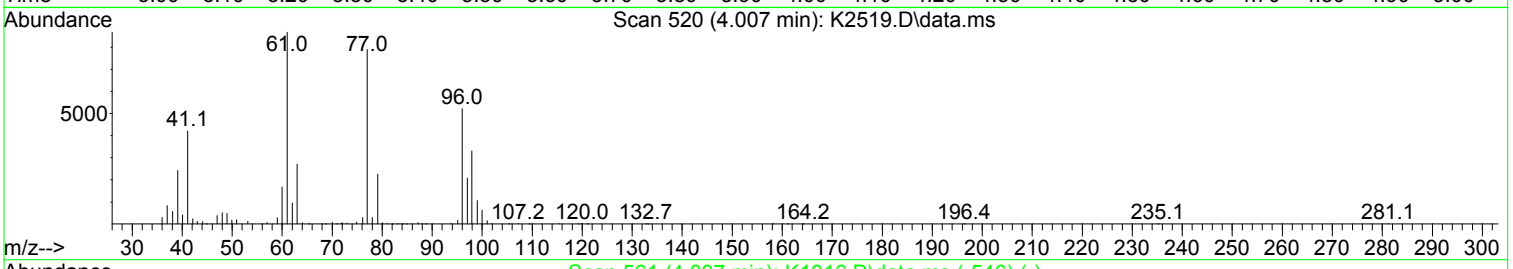
06/05/24

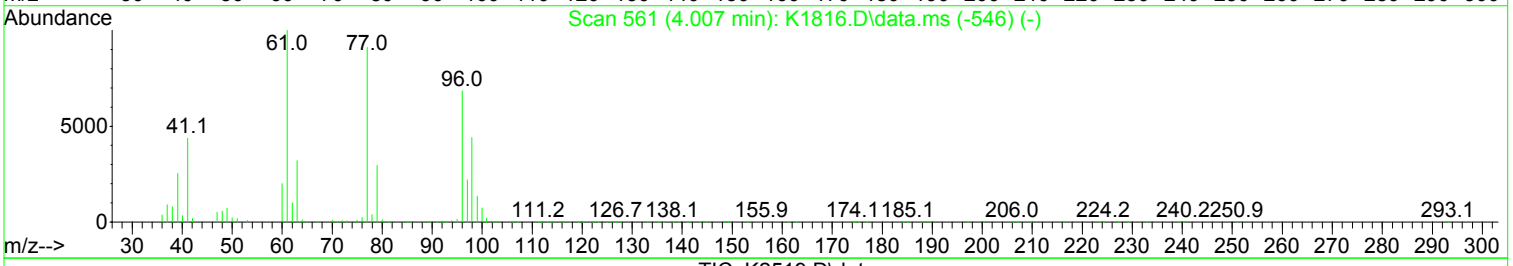
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2519.D
Acq On : 04 Jun 2024 04:15 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 09:54:09 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2519.D\data.ms

(33) 2,2-Dichloropropane

4.007min (-0.000) 5.71 ug/L m

response 26215

Ion	Exp%	Act%
77.00	100.00	100.00
79.00	32.60	28.59
97.00	24.30	26.23
0.00	0.00	0.00

Manual Integration:

After

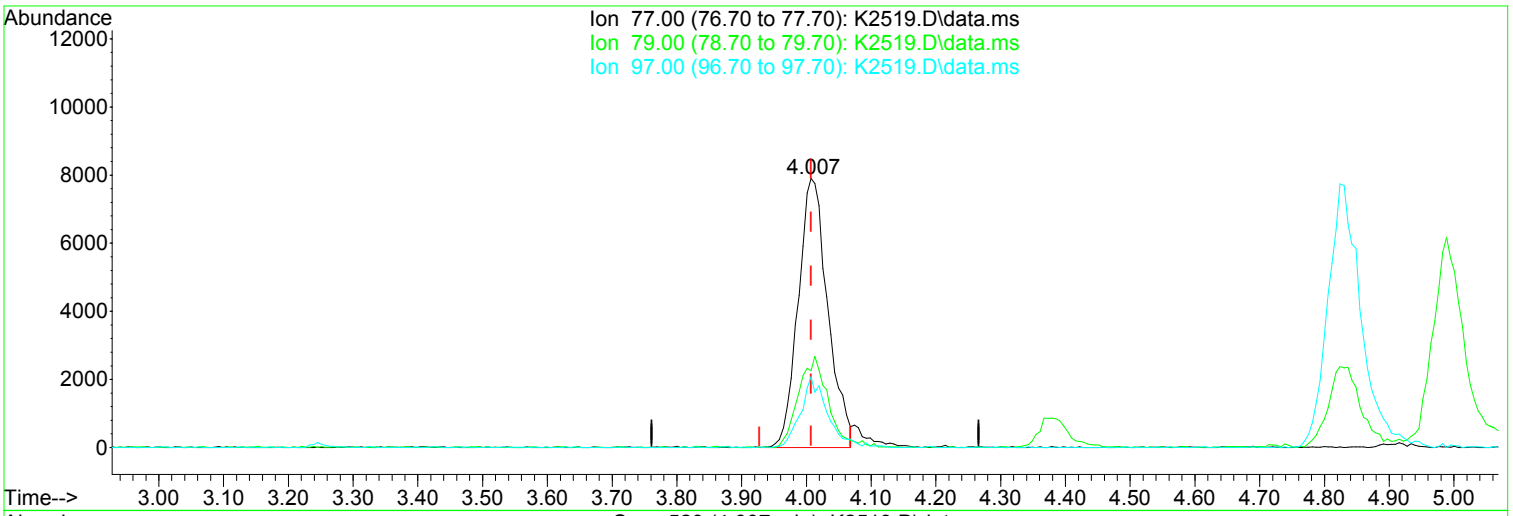
Poor integration.

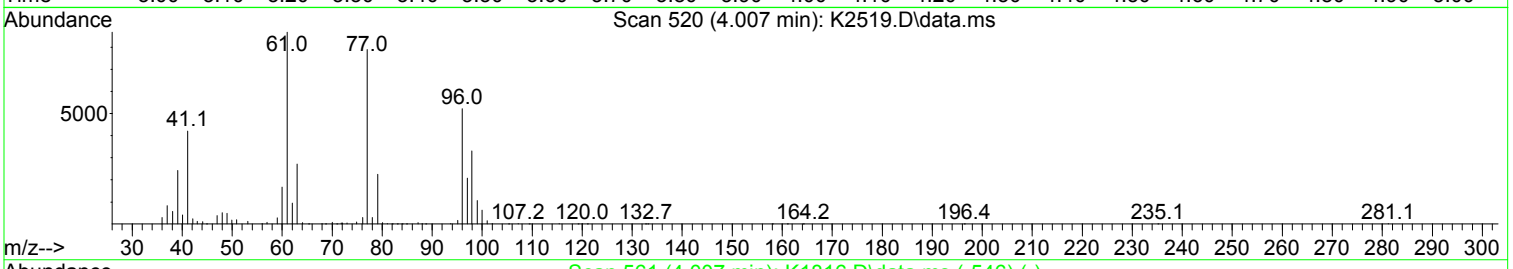
06/05/24

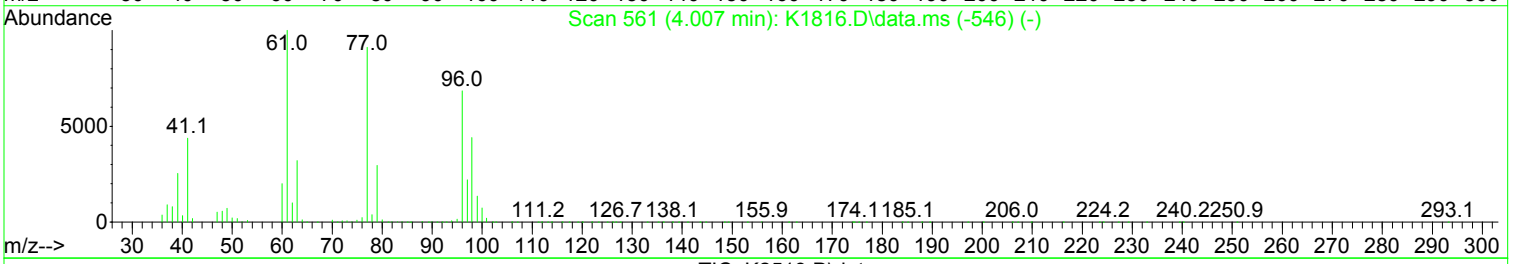
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2519.D
Acq On : 04 Jun 2024 04:15 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 09:54:09 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2519.D\data.ms

(33) 2,2-Dichloropropane

4.007min (-0.000) 5.46 ug/L

response 25063

Ion	Exp%	Act%
77.00	100.00	100.00
79.00	32.60	28.59
97.00	24.30	26.23
0.00	0.00	0.00

Manual Integration:

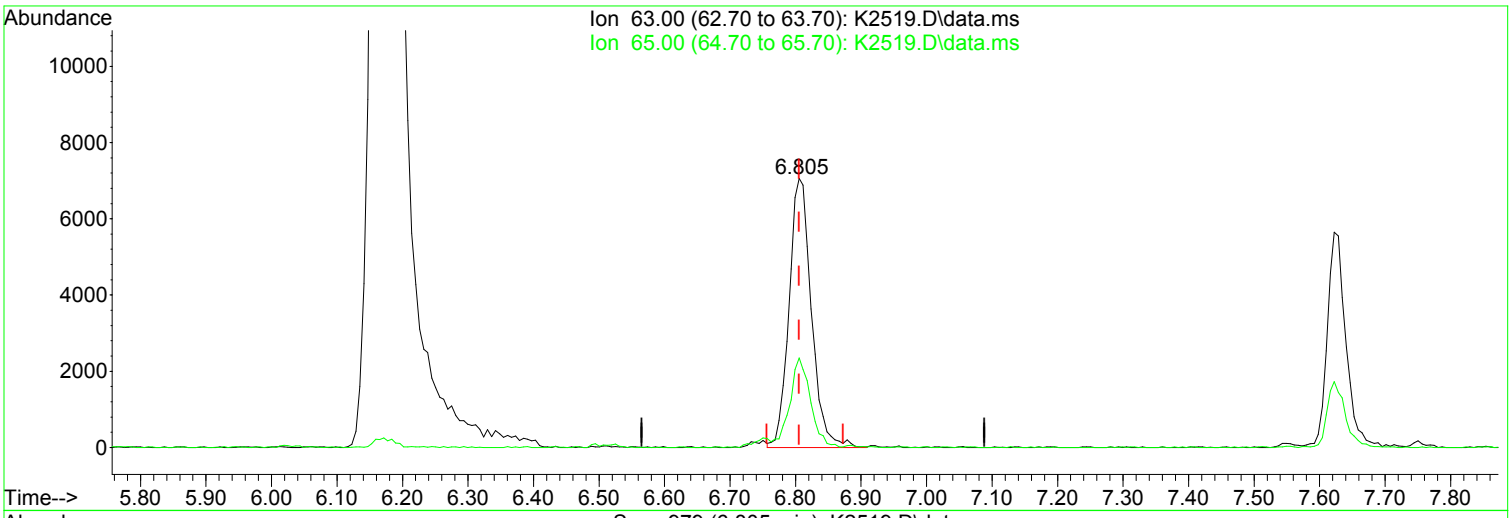
Before

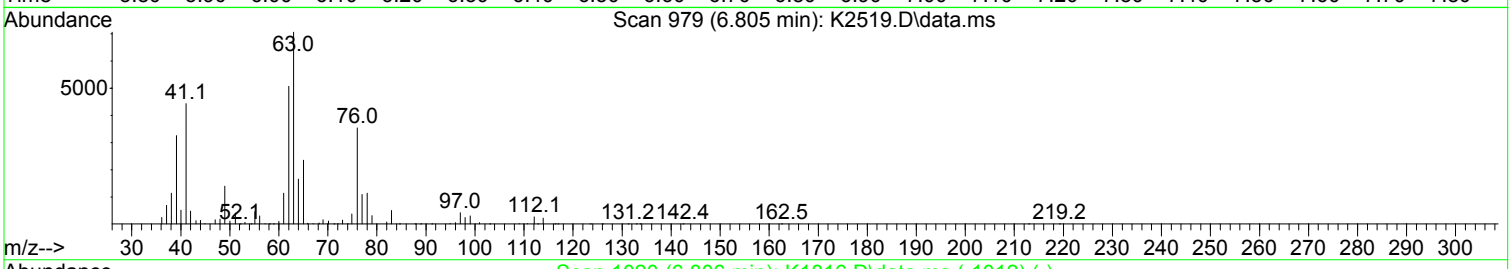
06/05/24

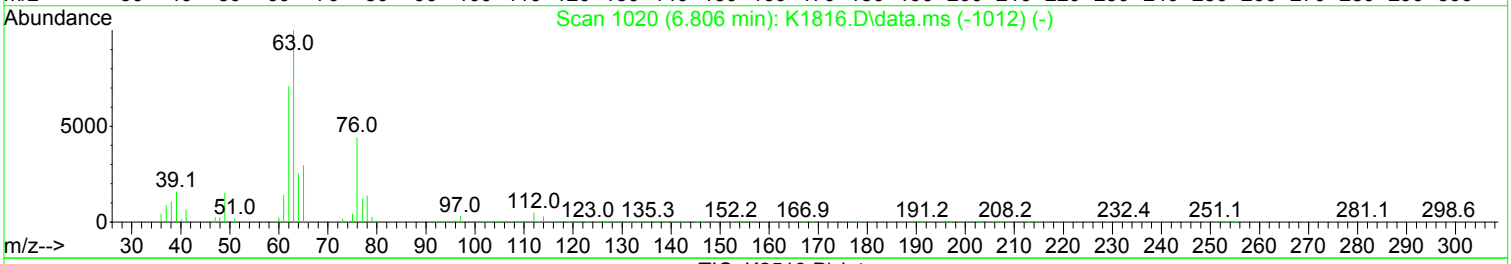
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2519.D
Acq On : 04 Jun 2024 04:15 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 09:54:09 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2519.D\data.ms

(56) 1,2-Diclpropane (P)

6.805min (-0.000) 5.21 ug/L m

response 16693

Ion	Exp%	Act%
63.00	100.00	100.00
65.00	31.80	33.32
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

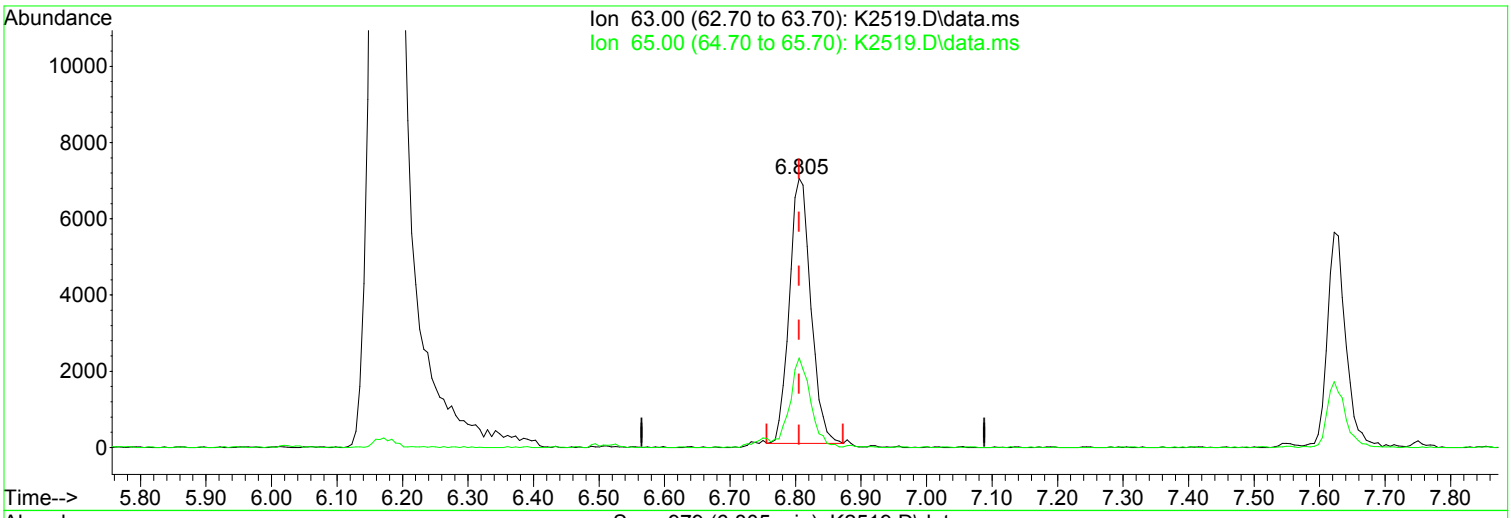
06/05/24

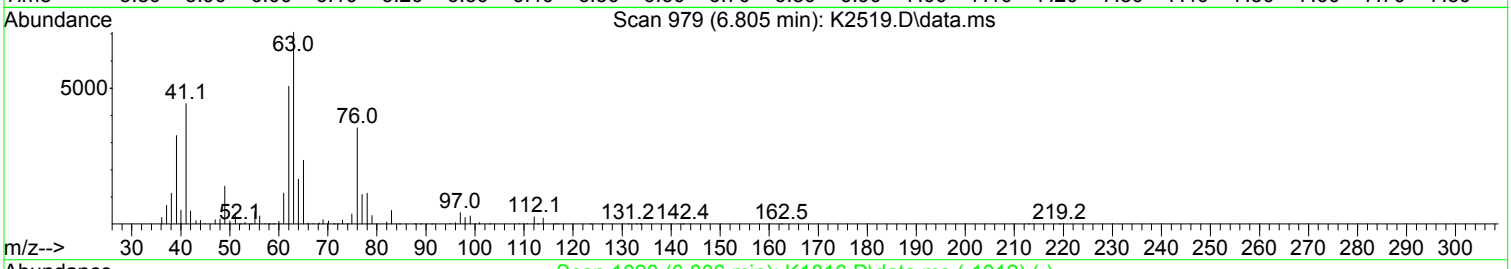
1st 06/05/24
2nd 06/06/24

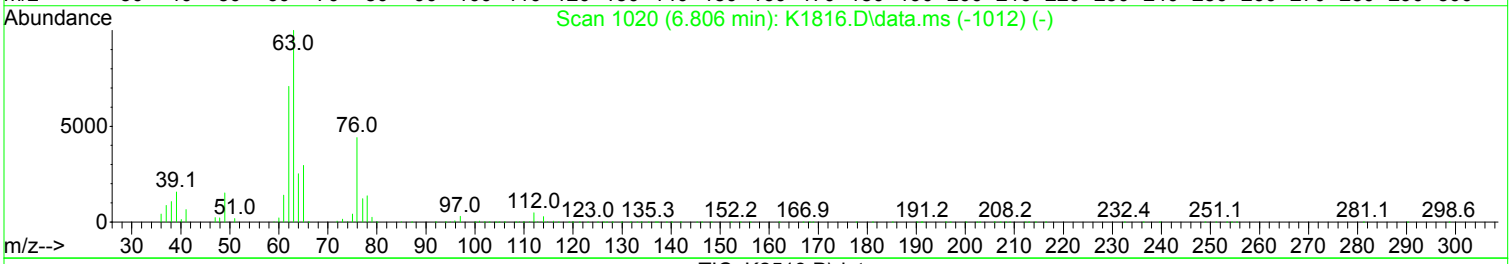
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2519.D
Acq On : 04 Jun 2024 04:15 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 09:54:09 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2519.D\data.ms

(56) 1,2-Diclpropane (P)

6.805min (-0.000) 4.93 ug/L

response 15809

Ion	Exp%	Act%
63.00	100.00	100.00
65.00	31.80	33.32
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

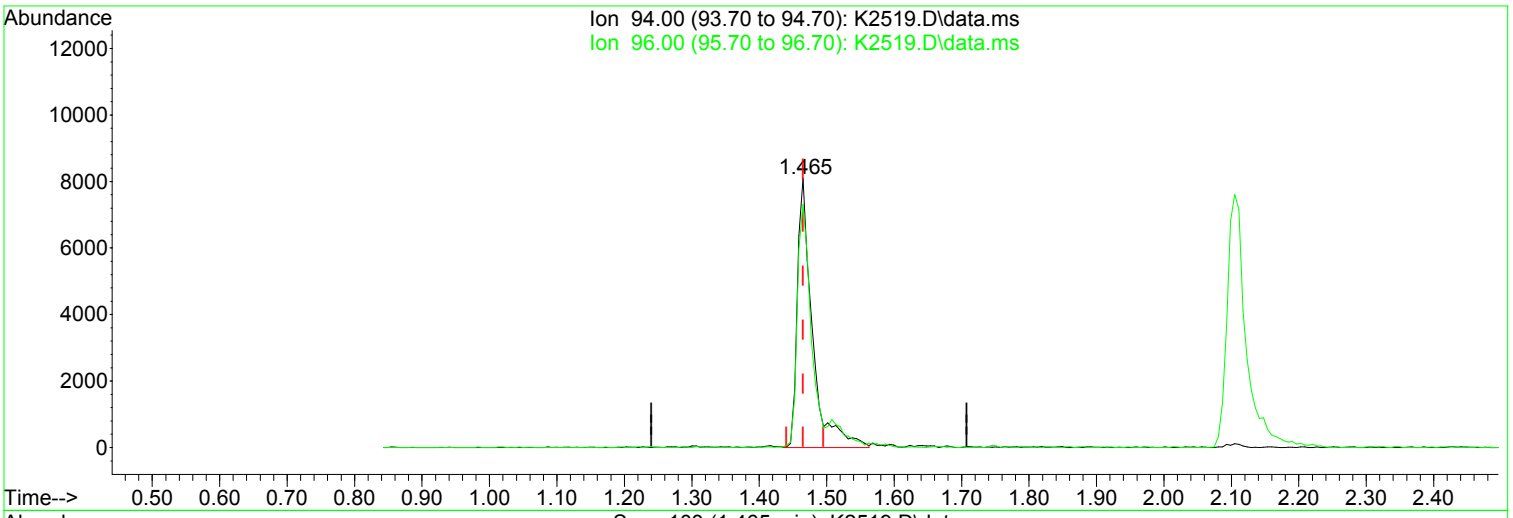
Before

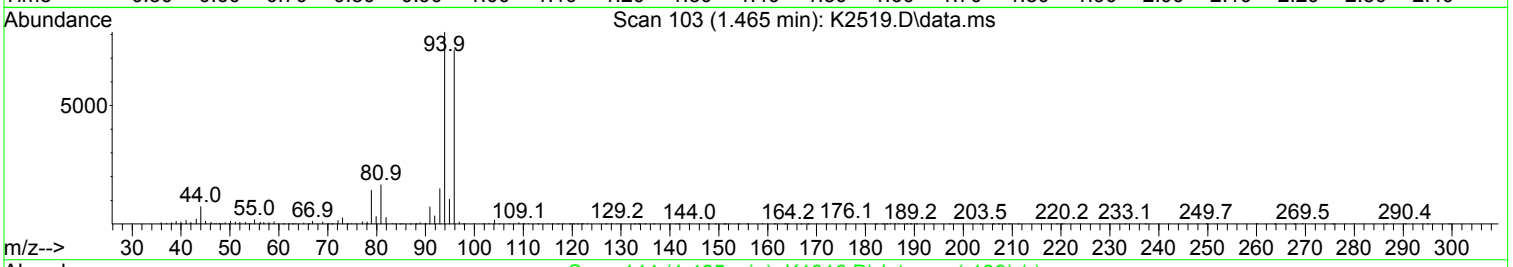
06/05/24

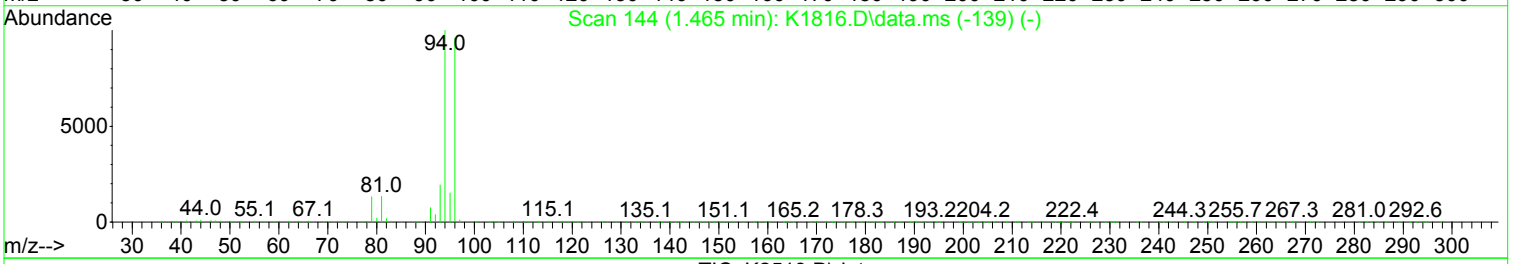
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2519.D
Acq On : 04 Jun 2024 04:15 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 09:54:09 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2519.D\data.ms

(6) Bromomethane (P)

1.465min (-0.000) 6.22 ug/L m

response 12530

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	96.00	90.43
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

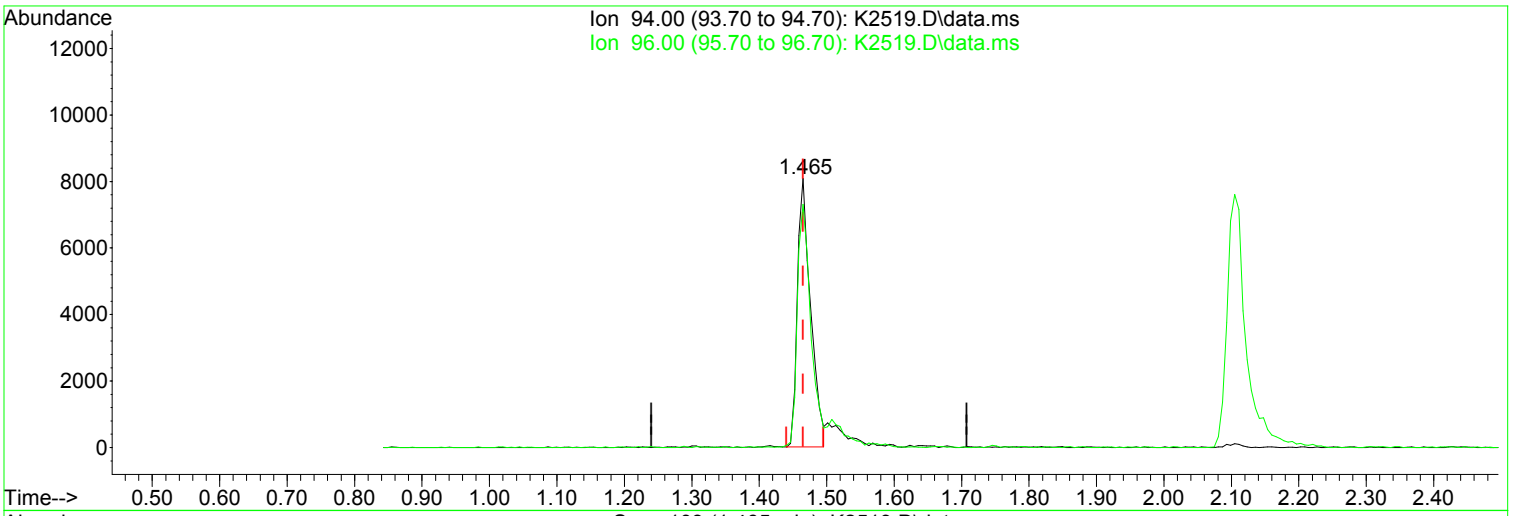
Split Peak.

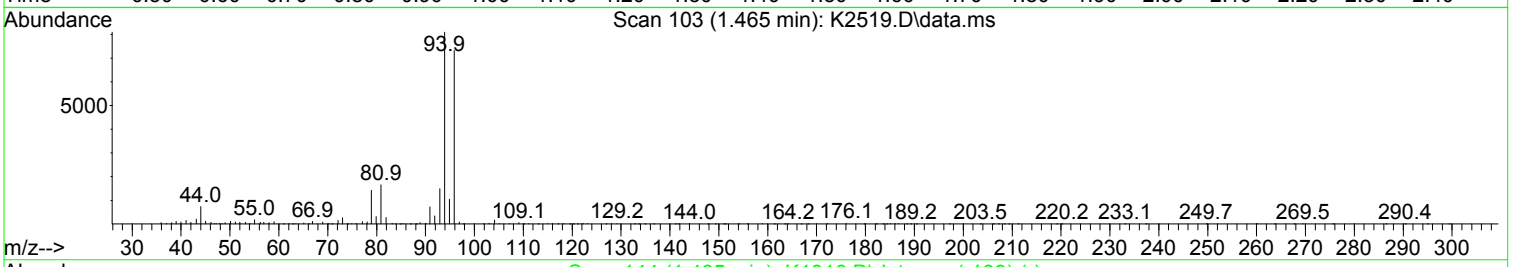
06/05/24

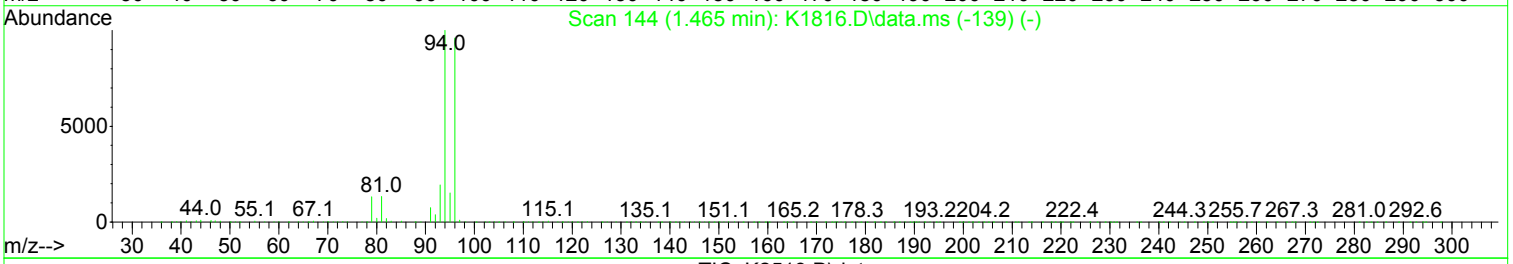
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2519.D
Acq On : 04 Jun 2024 04:15 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 09:54:09 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2519.D\data.ms

(6) Bromomethane (P)

1.465min (-0.000) 5.43 ug/L

response 10937

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	96.00	90.43
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

06/05/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2519.D
Acq On : 04 Jun 2024 04:15 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 09:54:09 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.995	168	386125	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.171	114	584069	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.573	117	501599	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	11.646	152	242450	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.830	113	40235	10.22	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 20.44%#				
48) surr1,1,2-dichloroetha...	5.415	65	48437	10.16	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 20.32%#				
65) SURR3,Toluene-d8	8.049	98	143293	10.51	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 21.02%#				
70) SURR2,BFB	10.664	95	51565	10.06	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 20.12%#				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.087	51	15860	4.977	ug/L		97
3) Dichlorodifluoromethane	1.075	85	21426	4.686	ug/L		98
4) Chloromethane	1.197	50	21886	5.061	ug/L		98
5) Vinyl Chloride	1.264	62	19370	5.006	ug/L		98
6) Bromomethane	1.465	94	12530m	6.224	ug/L		
7) Chloroethane	1.538	64	12471	5.431	ug/L		96
8) Freon 21	1.678	67	28861	5.245	ug/L		94
9) Trichlorofluoromethane	1.715	101	27374	5.179	ug/L		99
10) Diethyl Ether	1.934	59	13445	4.936	ug/L		96
11) Freon 123a	1.940	67	17041	5.274	ug/L		99
12) Freon 123	1.989	83	22174m	5.437	ug/L		
13) Acrolein	2.026	56	9998	24.995	ug/L		93
14) 1,1-Diclethene	2.105	96	15037	5.098	ug/L		89
15) Freon 113	2.111	101	16174	5.295	ug/L		100
16) Acetone	2.154	43	7173	6.519	ug/L		97
17) 2-Propanol	2.282	45	21917	99.257	ug/L		89
18) Iodomethane	2.233	142	4622	1.951	ug/L		97
19) Carbon Disulfide	2.276	76	41202	5.045	ug/L		100
20) Acetonitrile	2.404	41	14655m	13.778	ug/L		
21) Allyl Chloride	2.410	76	7507	4.944	ug/L	#	79
22) Methyl Acetate	2.434	43	16338m	5.227	ug/L		
23) Methylene Chloride	2.520	84	16973	5.401	ug/L		92
24) TBA	2.654	59	45203	99.284	ug/L		95
25) Acrylonitrile	2.757	53	34280	25.286	ug/L		98
26) Methyl-t-Butyl Ether	2.800	73	50761	5.172	ug/L		94
27) trans-1,2-Dichloroethene	2.788	96	15908	5.109	ug/L		89
28) 1,1-Diclethane	3.245	63	30180	5.211	ug/L		97
29) Vinyl Acetate	3.337	86	1602	4.070	ug/L	#	76
30) DIPE	3.361	45	43002m	5.202	ug/L		
31) 2-Chloro-1,3-Butadiene	3.355	53	25683m	5.238	ug/L		
32) ETBE	3.849	59	53343	5.070	ug/L		99
33) 2,2-Dichloropropane	4.007	77	26215m	5.712	ug/L		
34) cis-1,2-Dichloroethene	4.013	96	18166	5.508	ug/L		87
35) 2-Butanone	4.086	43	7761	5.388	ug/L		97
36) Propionitrile	4.160	54	14726	26.345	ug/L		98
37) Bromochloromethane	4.379	130	12267	5.540	ug/L		91
38) Methacrylonitrile	4.403	67	7558	5.104	ug/L		93
39) Tetrahydrofuran	4.495	42	5129	5.403	ug/L		82
40) Chloroform	4.550	83	29697	5.232	ug/L		96

1st 06/05/24
2nd 06/06/24

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2519.D
Acq On : 04 Jun 2024 04:15 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 09:54:09 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 1,1,1-Trichloroethane	4.824	97	27507	5.087	ug/L		95
42) TAME	5.769	73	47927	5.190	ug/L		94
44) Cyclohexane	4.915	41	12115	4.944	ug/L		95
46) Carbontetrachloride	5.129	117	27043	4.984	ug/L		95
47) 1,1-Dichloropropene	5.147	75	21679	5.235	ug/L		97
49) Benzene	5.495	78	59339	5.268	ug/L		96
50) 1,2-Dichloroethane	5.550	62	27049	5.195	ug/L		97
51) Iso-Butyl Alcohol	5.568	43	12970	94.297	ug/L		89
52) n-Heptane	6.019	43	16017	4.816	ug/L		91
53) 1-Butanol	6.598	56	21500	216.392	ug/L		93
54) Trichloroethene	6.507	130	19740	5.381	ug/L		96
55) Methylcyclohexane	6.744	55	21535	5.204	ug/L	#	86
56) 1,2-Diclpropane	6.805	63	16693m	5.209	ug/L		
57) Dibromomethane	6.952	93	11162	5.061	ug/L		94
58) 1,4-Dioxane	7.037	88	5044	100.860	ug/L		97
59) Methyl Methacrylate	7.061	69	10927	4.946	ug/L		91
60) Bromodichloromethane	7.196	83	22859	5.139	ug/L		96
61) 2-Nitropropane	7.500	41	9849	9.621	ug/L		95
62) 2-Chloroethylvinyl Ether	7.622	63	10999	5.079	ug/L		96
63) cis-1,3-Dichloropropene	7.756	75	23876	5.097	ug/L		99
64) 4-Methyl-2-pentanone	7.982	43	14794	4.842	ug/L		97
66) Toluene	8.122	91	68722	5.298	ug/L		98
67) trans-1,3-Dichloropropene	8.409	75	21982	5.018	ug/L		99
68) Ethyl Methacrylate	8.561	69	20938	4.972	ug/L		93
69) 1,1,2-Trichloroethane	8.604	97	16319	5.254	ug/L		97
72) Tetrachloroethene	8.726	164	14975	5.442	ug/L		98
73) 2-Hexanone	8.915	43	10485	4.970	ug/L		98
74) 1,3-Dichloropropane	8.775	76	25157	5.343	ug/L		91
75) Dibromochloromethane	9.000	129	18833	4.961	ug/L		99
76) N-Butyl Acetate	9.073	43	23335	5.162	ug/L		99
77) 1,2-Dibromoethane	9.098	107	15753	5.256	ug/L		97
78) 3-Chlorobenzotrifluoride	9.628	180	25879	5.163	ug/L		99
79) Chlorobenzene	9.598	112	47934	5.362	ug/L		98
80) 4-Chlorobenzotrifluoride	9.689	180	23934	5.288	ug/L		100
81) 1,1,1,2-Tetrachloroethane	9.689	131	19299	5.394	ug/L		95
82) Ethylbenzene	9.726	106	25299	5.394	ug/L		95
83) (m+p)Xylene	9.841	106	61367	10.815	ug/L		99
84) o-Xylene	10.201	106	30211	5.354	ug/L		99
85) Styrene	10.219	104	49420	5.318	ug/L		99
86) Bromoform	10.366	173	10677	4.783	ug/L		98
87) 2-Chlorobenzotrifluoride	10.457	180	24794	5.158	ug/L		97
88) Isopropylbenzene	10.543	105	81341	5.561	ug/L		100
89) Cyclohexanone	10.610	55	36859	113.582	ug/L		99
90) trans-1,4-Dichloro-2-B...	10.860	53	6071	5.170	ug/L		87
92) 1,1,2,2-Tetrachloroethane	10.811	83	20610	5.378	ug/L		98
93) Bromobenzene	10.780	156	20934	5.664	ug/L		94
94) 1,2,3-Trichloropropane	10.835	110	7728	5.485	ug/L		97
95) n-Propylbenzene	10.902	91	90275	5.821	ug/L		99
96) 2-Chlorotoluene	10.957	91	55250	5.780	ug/L		98
97) 3-Chlorotoluene	11.012	91	57656	5.583	ug/L		99
98) 4-Chlorotoluene	11.055	91	63508	5.737	ug/L		98
99) 1,3,5-Trimethylbenzene	11.055	105	68824	5.656	ug/L		98
100) tert-Butylbenzene	11.329	119	60647	5.678	ug/L		97
101) 1,2,4-Trimethylbenzene	11.366	105	69530	5.713	ug/L		97
102) 3,4-Dichlorobenzotrifl...	11.433	214	18175	5.314	ug/L		96
103) sec-Butylbenzene	11.512	105	86056	5.852	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2519.D
Acq On : 04 Jun 2024 04:15 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 09:54:09 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

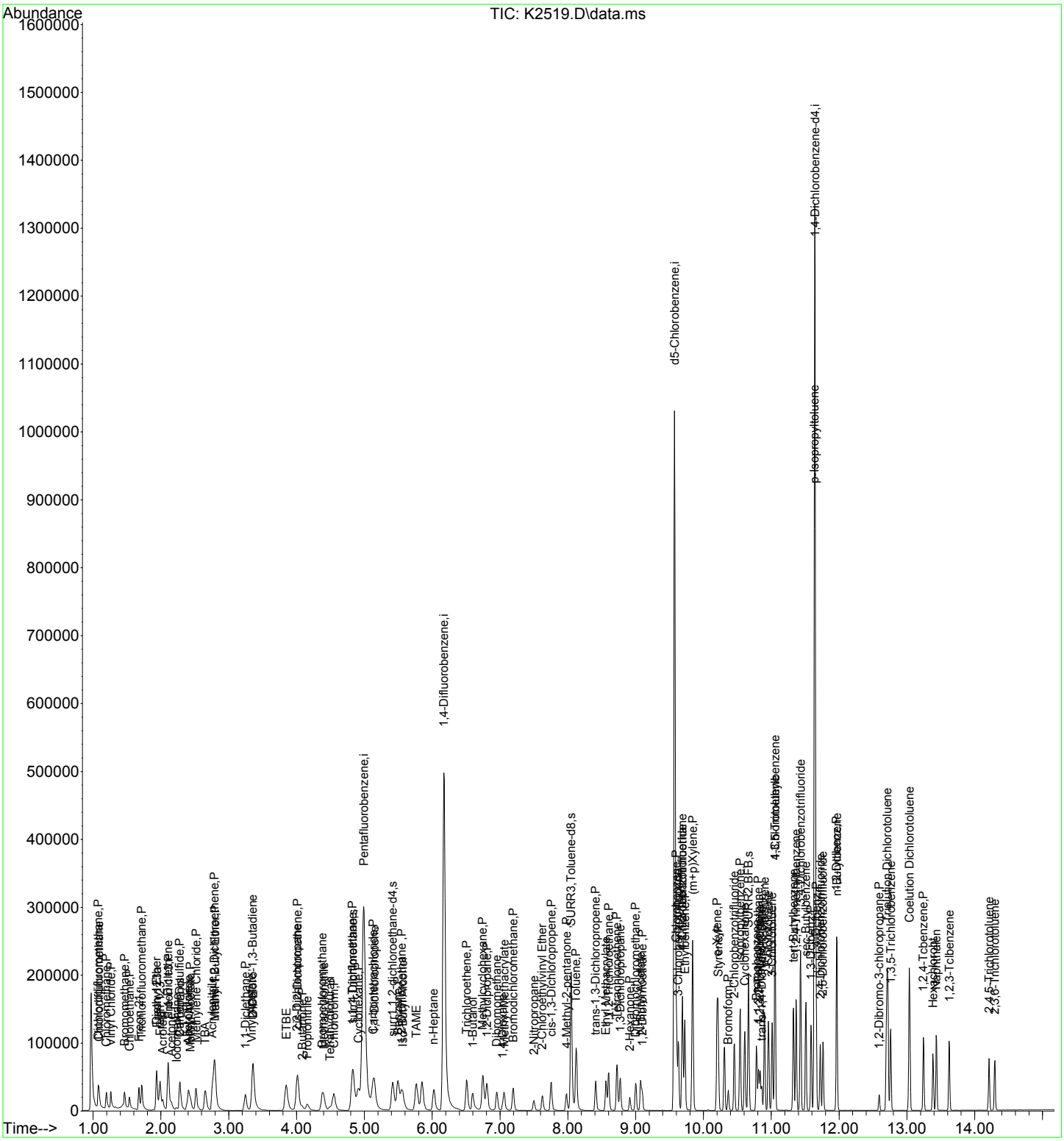
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) p-Isopropyltoluene	11.634	119	73530	5.713	ug/L	99
105) 1,3-Dclbenz	11.585	146	40342	5.642	ug/L	97
106) 1,4-Dclbenz	11.664	146	41089	5.658	ug/L	98
107) 2,4-Dichlorobenzotrifl...	11.725	214	16081	5.366	ug/L	98
108) 2,5-Dichlorobenzotrifl...	11.762	214	18193	5.424	ug/L	98
109) n-Butylbenzene	11.969	91	61169	5.667	ug/L	99
110) 1,2-Dclbenz	11.963	146	39407	5.657	ug/L	97
111) 1,2-Dibromo-3-chloropr...	12.591	157	4703	4.900	ug/L	94
112) Trielution Dichlorotol...	12.713	125	101809	16.050	ug/L	99
113) 1,3,5-Trichlorobenzene	12.762	180	25763	5.241	ug/L	94
114) Coelution Dichlorotoluene	13.036	125	70970	10.550	ug/L	99
115) 1,2,4-Tcbenzene	13.243	180	23645	5.257	ug/L	97
116) Hexachlorobt	13.383	225	10895	5.523	ug/L	98
117) Naphthalen	13.432	128	67395	5.167	ug/L	99
118) 1,2,3-Tclbenzene	13.627	180	22605	5.313	ug/L	97
119) 2,4,5-Trichlorotoluene	14.213	159	16343	4.965	ug/L	96
120) 2,3,6-Trichlorotoluene	14.298	159	14266	5.061	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2519.D
Acq On : 04 Jun 2024 04:15 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 5 Sample Multiplier: 1

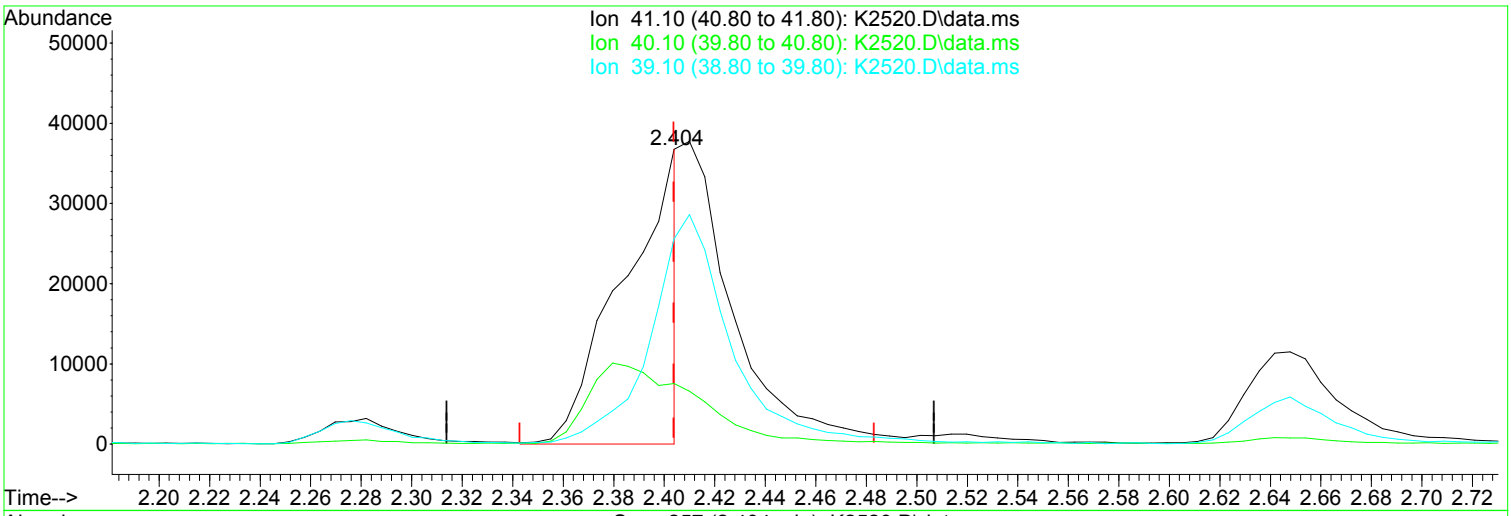
Quant Time: Jun 05 09:54:09 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

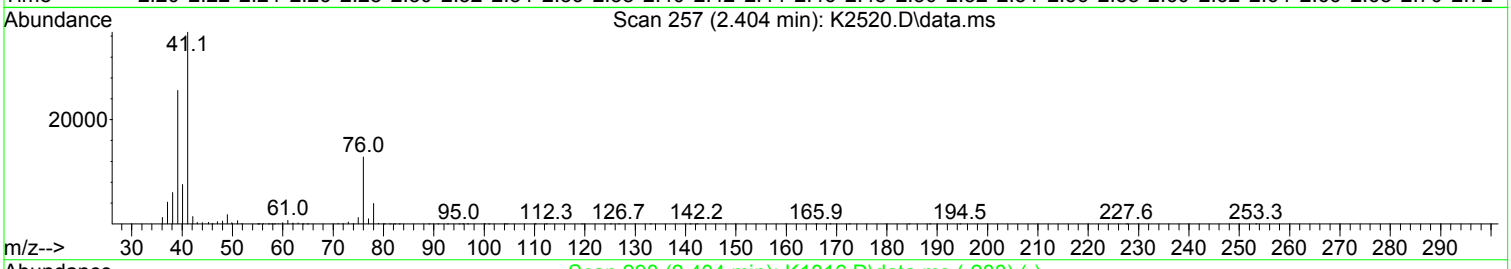


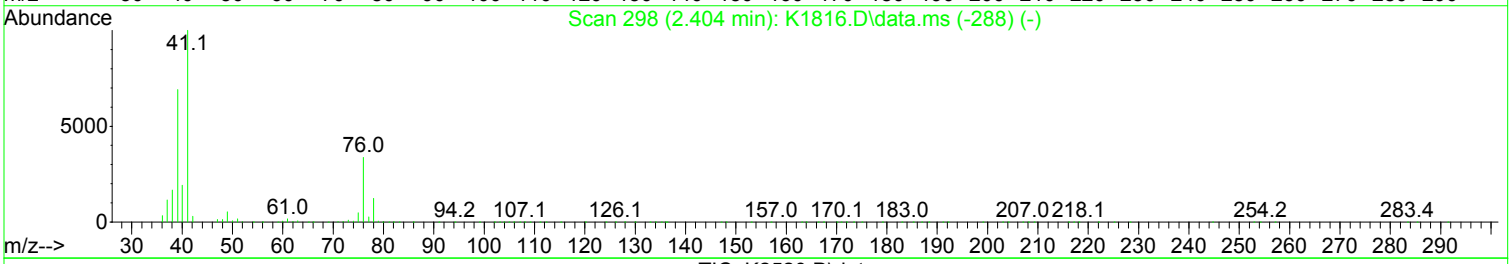
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2520.D
Acq On : 04 Jun 2024 04:38 pm
Operator : K.Ruest
Sample : 20ppb
Misc : 8260/624 ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 09:54:15 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2520.D\data.ms

(20) Acetonitrile

2.404min (+ 0.000) 54.59 ug/L m

response 56773

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	19.40	20.57
39.10	69.50	69.57
0.00	0.00	0.00

Manual Integration:

After

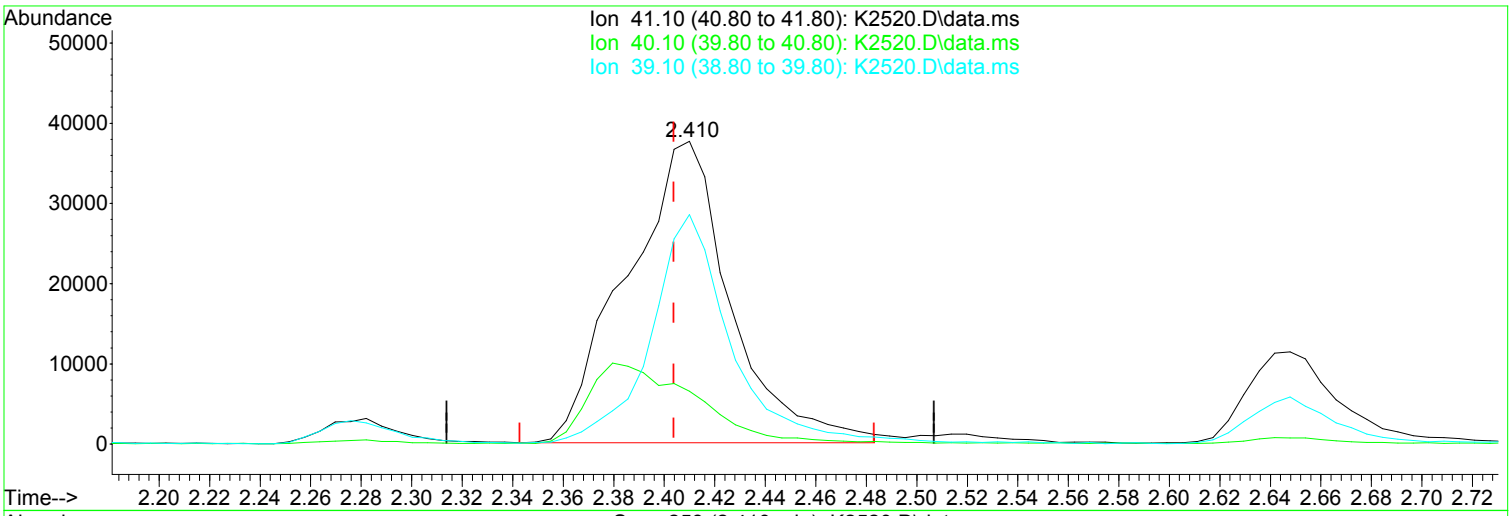
Poor integration.

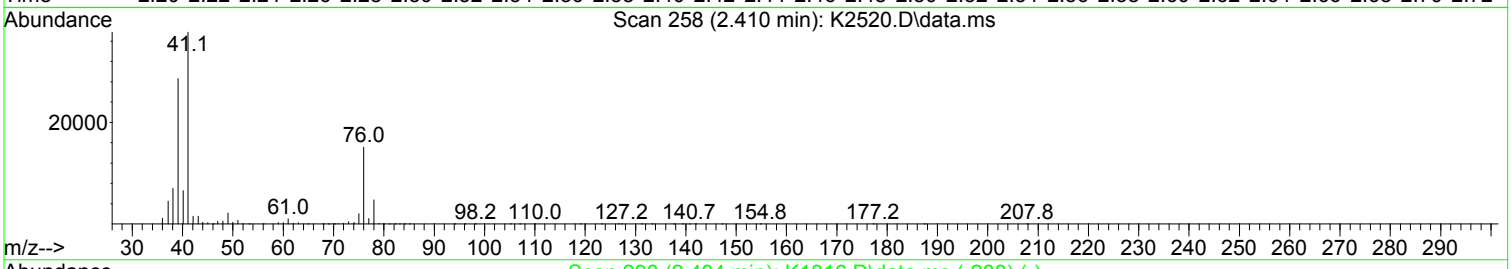
06/05/24

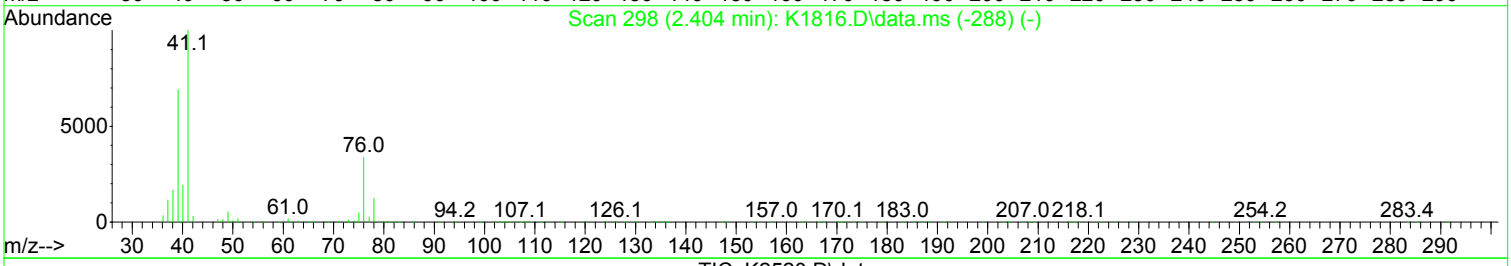
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2520.D
Acq On : 04 Jun 2024 04:38 pm
Operator : K.Ruest
Sample : 20ppb
Misc : 8260/624 ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 09:54:15 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2520.D\data.ms

(20) Acetonitrile

2.410min (+ 0.006) 103.60 ug/L

response 107741

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	19.40	17.46
39.10	69.50	75.87
0.00	0.00	0.00

Manual Integration:

Before

06/05/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2520.D
Acq On : 04 Jun 2024 04:38 pm
Operator : K.Ruest
Sample : 20ppb
Misc : 8260/624 ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 09:54:15 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.995	168	377544	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.172	114	573885	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.573	117	498554	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	11.640	152	252886	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.824	113	73994	19.14	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 38.28%#				
48) surr1,1,2-dichloroetha...	5.422	65	90598	19.34	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 38.68%#				
65) SURR3,Toluene-d8	8.049	98	260112	19.41	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 38.82%#				
70) SURR2,BFB	10.665	95	96381	19.14	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 38.28%#				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.087	51	58790	18.867	ug/L		100
3) Dichlorodifluoromethane	1.075	85	92273	20.638	ug/L		99
4) Chloromethane	1.197	50	79996	18.920	ug/L		98
5) Vinyl Chloride	1.264	62	75676	20.001	ug/L		99
6) Bromomethane	1.471	94	46774	23.761	ug/L		95
7) Chloroethane	1.538	64	49682	22.128	ug/L		98
8) Freon 21	1.678	67	102394	19.032	ug/L		98
9) Trichlorofluoromethane	1.721	101	100357	19.419	ug/L		99
10) Diethyl Ether	1.934	59	55522	20.846	ug/L		94
11) Freon 123a	1.941	67	58279	18.447	ug/L		92
12) Freon 123	1.989	83	75854	19.023	ug/L		96
13) Acrolein	2.026	56	38532	98.519	ug/L		97
14) 1,1-Diclethene	2.105	96	56334	19.535	ug/L		93
15) Freon 113	2.111	101	56210	18.821	ug/L		98
16) Acetone	2.154	43	20712	19.251	ug/L		95
17) 2-Propanol	2.276	45	84816	392.841	ug/L		97
18) Iodomethane	2.227	142	17818	7.693	ug/L		82
19) Carbon Disulfide	2.282	76	155902	19.522	ug/L		100
20) Acetonitrile	2.404	41	56773m	54.589	ug/L		
21) Allyl Chloride	2.410	76	30482	20.531	ug/L	#	81
22) Methyl Acetate	2.434	43	59460	19.456	ug/L		94
23) Methylene Chloride	2.520	84	62524	20.348	ug/L		92
24) TBA	2.648	59	177648	399.054	ug/L		97
25) Acrylonitrile	2.757	53	136100	102.674	ug/L		99
26) Methyl-t-Butyl Ether	2.800	73	195949	20.417	ug/L		97
27) trans-1,2-Dichloroethene	2.788	96	60388	19.834	ug/L		91
28) 1,1-Diclethane	3.245	63	111414	19.675	ug/L		100
29) Vinyl Acetate	3.331	86	7686	19.969	ug/L	#	67
30) DIPE	3.361	45	167276	20.694	ug/L		94
31) 2-Chloro-1,3-Butadiene	3.361	53	97188	20.270	ug/L		90
32) ETBE	3.843	59	217237	21.115	ug/L		97
33) 2,2-Dichloropropane	4.007	77	94620	21.085	ug/L		99
34) cis-1,2-Dichloroethene	4.019	96	67746	21.006	ug/L		90
35) 2-Butanone	4.074	43	28243	20.053	ug/L		92
36) Propionitrile	4.154	54	55761	102.026	ug/L		92
37) Bromochloromethane	4.379	130	46293	21.381	ug/L		94
38) Methacrylonitrile	4.397	67	30099	20.787	ug/L		98
39) Tetrahydrofuran	4.489	42	18183	19.590	ug/L		86
40) Chloroform	4.550	83	109757	19.776	ug/L		96

1st 06/05/24
2nd 06/06/24

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2520.D
Acq On : 04 Jun 2024 04:38 pm
Operator : K.Ruest
Sample : 20ppb
Misc : 8260/624 ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 09:54:15 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-Trichloroethane	4.830	97	100977	19.098	ug/L	94
42) TAME	5.763	73	188631	20.889	ug/L	92
44) Cyclohexane	4.910	41	43378	18.016	ug/L	98
46) Carbontetrachloride	5.129	117	91723	17.205	ug/L	99
47) 1,1-Dichloropropene	5.147	75	72932	17.925	ug/L	97
49) Benzene	5.495	78	215376	19.459	ug/L	93
50) 1,2-Dichloroethane	5.544	62	101507	19.842	ug/L	99
51) Iso-Butyl Alcohol	5.562	43	53169	393.419	ug/L	96
52) n-Heptane	6.031	43	55727	17.054	ug/L	88
53) 1-Butanol	6.586	56	102612	1051.092	ug/L	96
54) Trichloroethene	6.507	130	69487	19.278	ug/L	97
55) Methylcyclohexane	6.751	55	73197	18.001	ug/L	93
56) 1,2-Diclpropane	6.806	63	61989	19.687	ug/L	97
57) Dibromomethane	6.952	93	43130	19.904	ug/L	94
58) 1,4-Dioxane	7.031	88	19686	400.625	ug/L	96
59) Methyl Methacrylate	7.062	69	43777	20.169	ug/L	88
60) Bromodichloromethane	7.196	83	86749	19.848	ug/L	98
61) 2-Nitropropane	7.494	41	39506	39.278	ug/L	98
62) 2-Chloroethylvinyl Ether	7.622	63	41832	19.660	ug/L	97
63) cis-1,3-Dichloropropene	7.750	75	93300	20.269	ug/L	98
64) 4-Methyl-2-pentanone	7.976	43	57586	19.184	ug/L	98
66) Toluene	8.122	91	242018	18.990	ug/L	99
67) trans-1,3-Dichloropropene	8.409	75	86434	20.080	ug/L	99
68) Ethyl Methacrylate	8.561	69	81832	19.776	ug/L	89
69) 1,1,2-Trichloroethane	8.604	97	61714	20.221	ug/L	98
72) Tetrachloroethene	8.726	164	50806	18.577	ug/L	98
73) 2-Hexanone	8.909	43	39915	19.035	ug/L	95
74) 1,3-Dichloropropane	8.775	76	94533	20.201	ug/L	94
75) Dibromochloromethane	9.000	129	77129	20.443	ug/L	100
76) N-Butyl Acetate	9.073	43	84902	18.895	ug/L	98
77) 1,2-Dibromoethane	9.098	107	59888	20.103	ug/L	98
78) 3-Chlorobenzotrifluoride	9.634	180	98366	19.745	ug/L	97
79) Chlorobenzene	9.598	112	170332	19.172	ug/L	99
80) 4-Chlorobenzotrifluoride	9.689	180	88547	19.684	ug/L	97
81) 1,1,1,2-Tetrachloroethane	9.695	131	71556	20.124	ug/L	97
82) Ethylbenzene	9.726	106	88823	19.054	ug/L	96
83) (m+p)Xylene	9.842	106	215879	38.276	ug/L	99
84) o-Xylene	10.201	106	108216	19.294	ug/L	97
85) Styrene	10.220	104	183659	19.885	ug/L	98
86) Bromoform	10.366	173	44675	20.136	ug/L	100
87) 2-Chlorobenzotrifluoride	10.457	180	95982	20.088	ug/L	99
88) Isopropylbenzene	10.543	105	272149	18.720	ug/L	99
89) Cyclohexanone	10.610	55	125837	390.138	ug/L	98
90) trans-1,4-Dichloro-2-B...	10.860	53	22242	19.057	ug/L	88
92) 1,1,2,2-Tetrachloroethane	10.811	83	79526	19.895	ug/L	99
93) Bromobenzene	10.780	156	75223	19.511	ug/L	96
94) 1,2,3-Trichloropropane	10.835	110	28741	19.558	ug/L	91
95) n-Propylbenzene	10.896	91	300325	18.566	ug/L	98
96) 2-Chlorotoluene	10.957	91	190324	19.091	ug/L	97
97) 3-Chlorotoluene	11.012	91	219803	20.405	ug/L	97
98) 4-Chlorotoluene	11.055	91	217406	18.829	ug/L	99
99) 1,3,5-Trimethylbenzene	11.055	105	237225	18.691	ug/L	97
100) tert-Butylbenzene	11.329	119	204517	18.359	ug/L	98
101) 1,2,4-Trimethylbenzene	11.366	105	242099	19.070	ug/L	100
102) 3,4-Dichlorobenzotrifl...	11.433	214	69652	19.523	ug/L	96
103) sec-Butylbenzene	11.512	105	275729	17.978	ug/L	98

1st 06/05/24
2nd 06/06/24

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2520.D
Acq On : 04 Jun 2024 04:38 pm
Operator : K.Ruest
Sample : 20ppb
Misc : 8260/624 ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 09:54:15 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

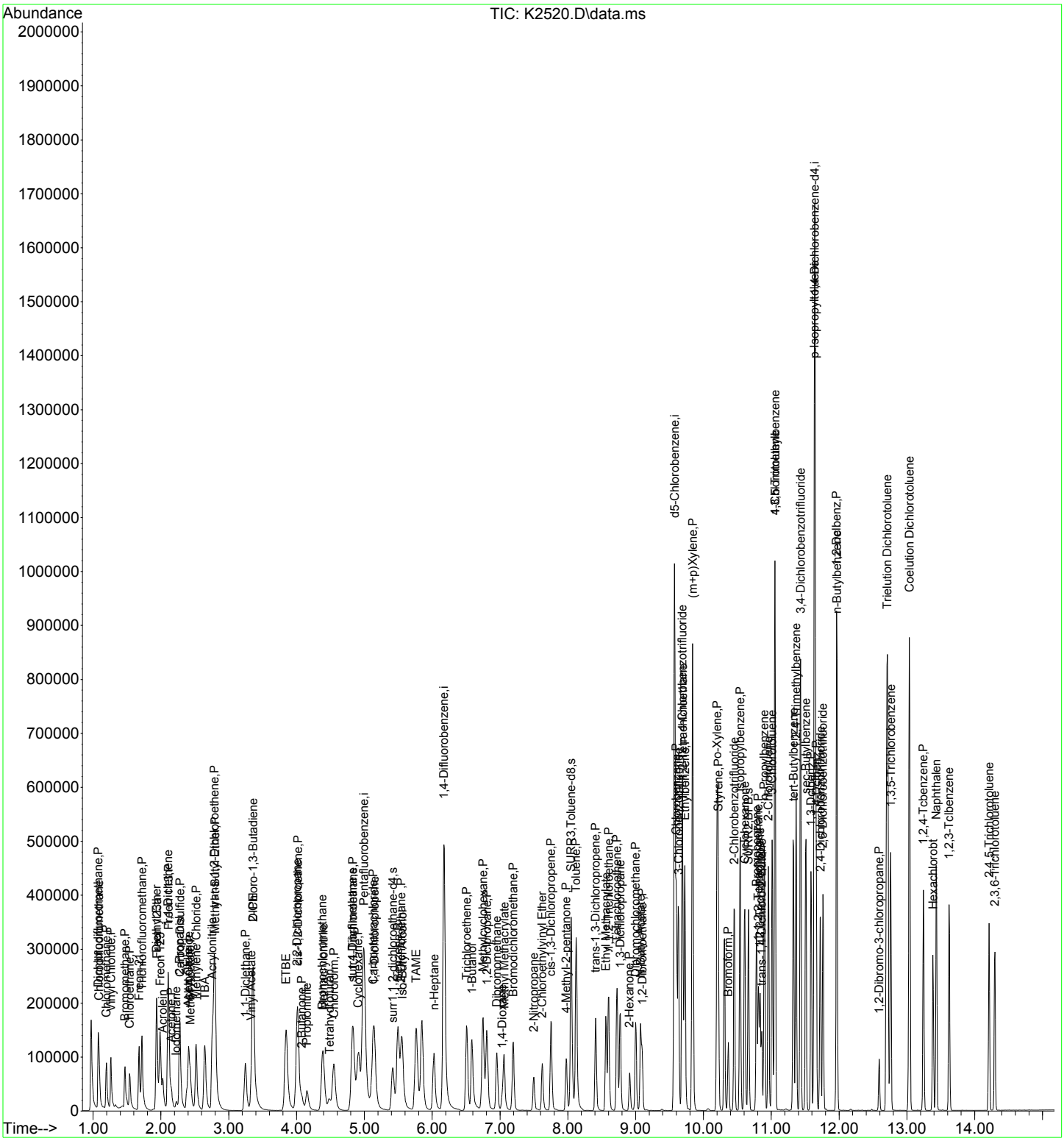
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) p-Isopropyltoluene	11.634	119	246904	18.392	ug/L	99
105) 1,3-Dclbenz	11.585	146	144357	19.356	ug/L	96
106) 1,4-Dclbenz	11.664	146	144412	19.066	ug/L	98
107) 2,4-Dichlorobenzotrifl...	11.725	214	63062	20.175	ug/L	98
108) 2,5-Dichlorobenzotrifl...	11.762	214	70972	20.288	ug/L	99
109) n-Butylbenzene	11.969	91	206156	18.312	ug/L	98
110) 1,2-Dclbenz	11.963	146	140787	19.375	ug/L	99
111) 1,2-Dibromo-3-chloropr...	12.591	157	19830	19.808	ug/L	99
112) Trielution Dichlorotol...	12.713	125	412124	62.288	ug/L	99
113) 1,3,5-Trichlorobenzene	12.762	180	106592	20.790	ug/L	99
114) Coelution Dichlorotoluene	13.036	125	293469	41.824	ug/L	100
115) 1,2,4-Tcbenzene	13.243	180	90913	19.378	ug/L	100
116) Hexachlorobt	13.384	225	36327	17.656	ug/L	99
117) Naphthalen	13.432	128	277646	20.409	ug/L	99
118) 1,2,3-Tclbenzene	13.621	180	87572	19.733	ug/L	95
119) 2,4,5-Trichlorotoluene	14.213	159	71319	20.773	ug/L	99
120) 2,3,6-Trichlorotoluene	14.298	159	56121	19.089	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2520.D
Acq On : 04 Jun 2024 04:38 pm
Operator : K.Ruest
Sample : 20ppb
Misc : 8260/624 ICAL
ALS Vial : 6 Sample Multiplier: 1

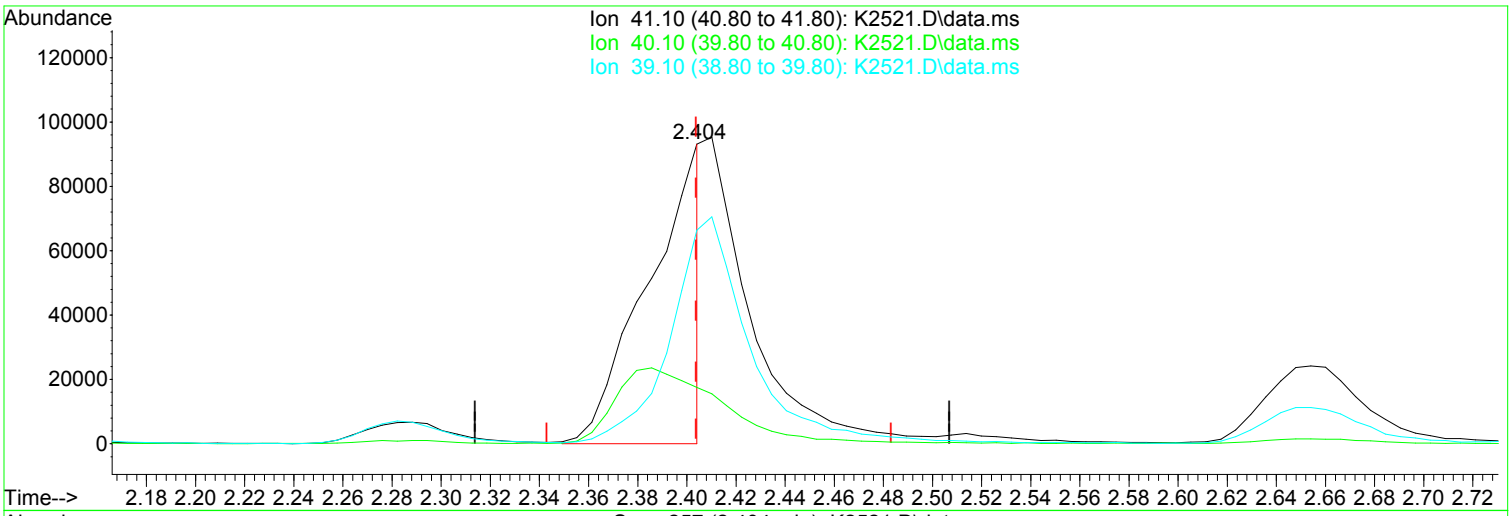
Quant Time: Jun 05 09:54:15 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

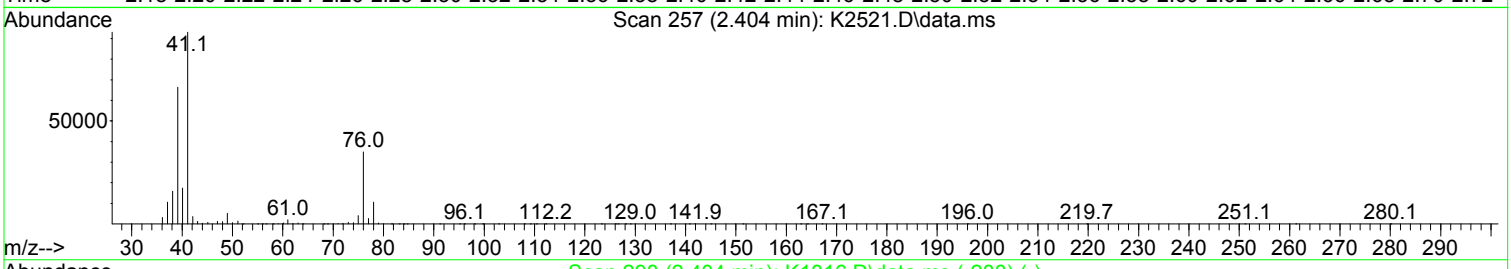


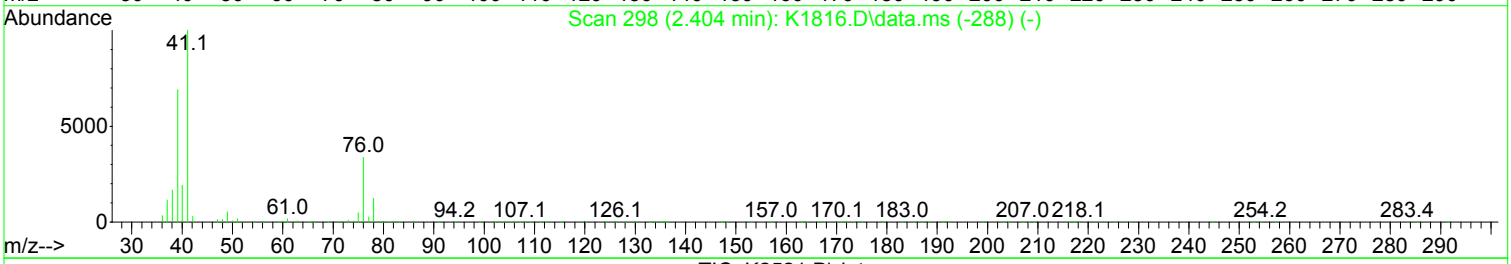
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2521.D
Acq On : 04 Jun 2024 05:01 pm
Operator : K.Ruest
Sample : 50ppb
Misc : 8260/624 ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 09:54:21 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2521.D\data.ms

(20) Acetonitrile

2.404min (+ 0.000) 135.34 ug/L m

response 141478

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	19.40	18.79
39.10	69.50	71.32
0.00	0.00	0.00

Manual Integration:

After

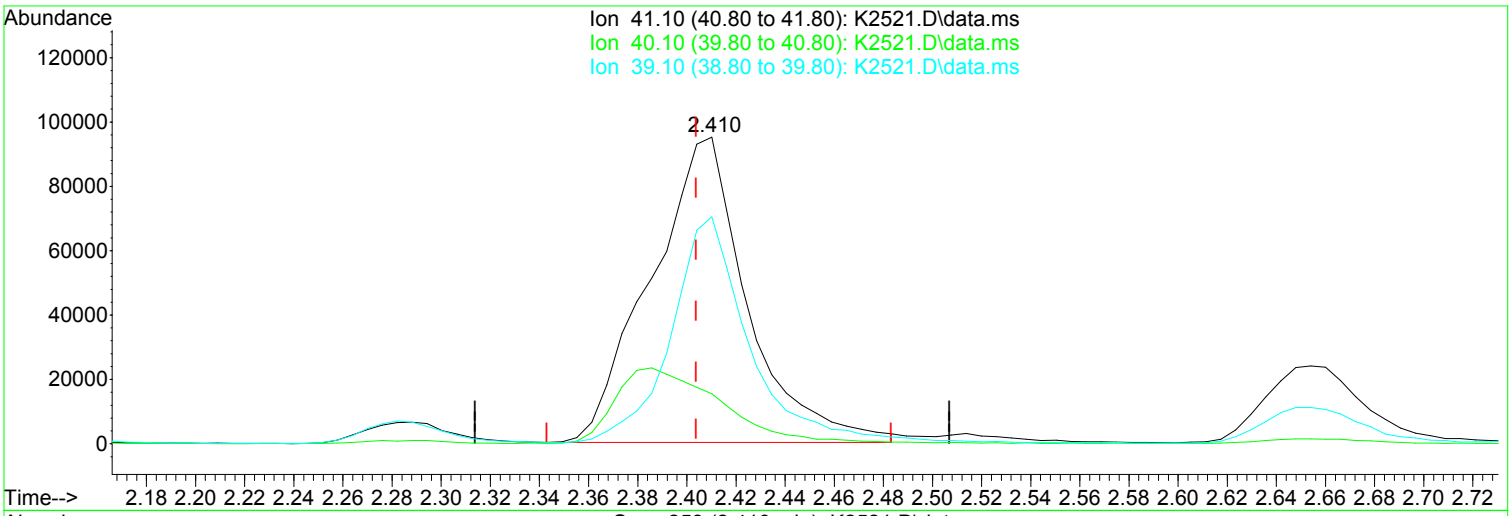
Poor integration.

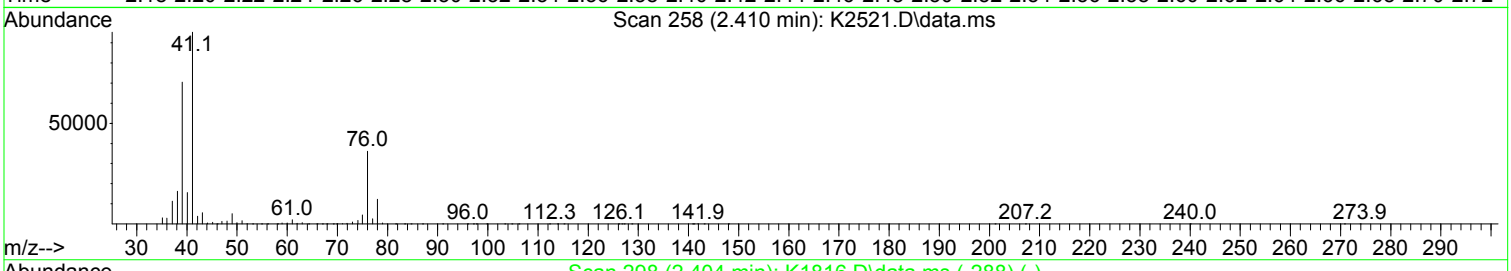
06/05/24

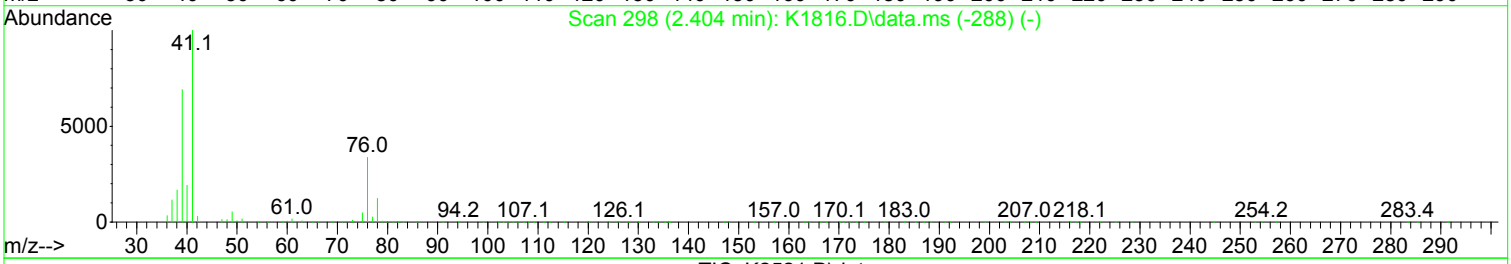
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2521.D
Acq On : 04 Jun 2024 05:01 pm
Operator : K.Ruest
Sample : 50ppb
Misc : 8260/624 ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 09:54:21 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2521.D\data.ms

(20) Acetonitrile

2.410min (+ 0.006) 248.50 ug/L

response 259777

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	19.40	16.30
39.10	69.50	74.03
0.00	0.00	0.00

Manual Integration:

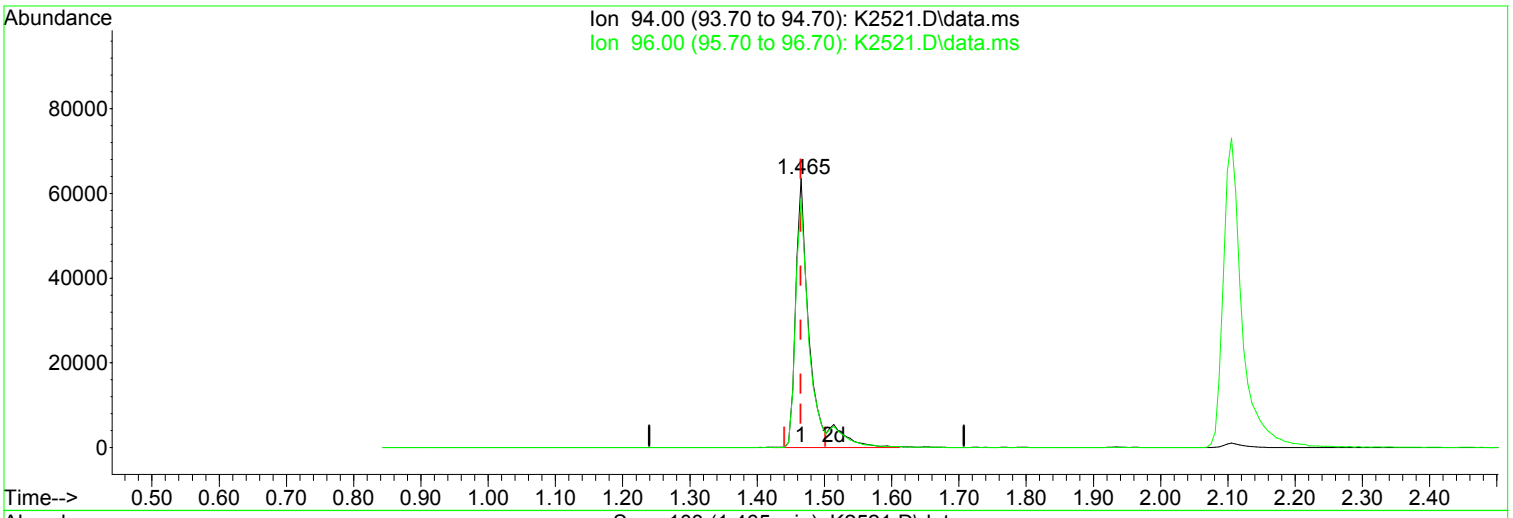
Before

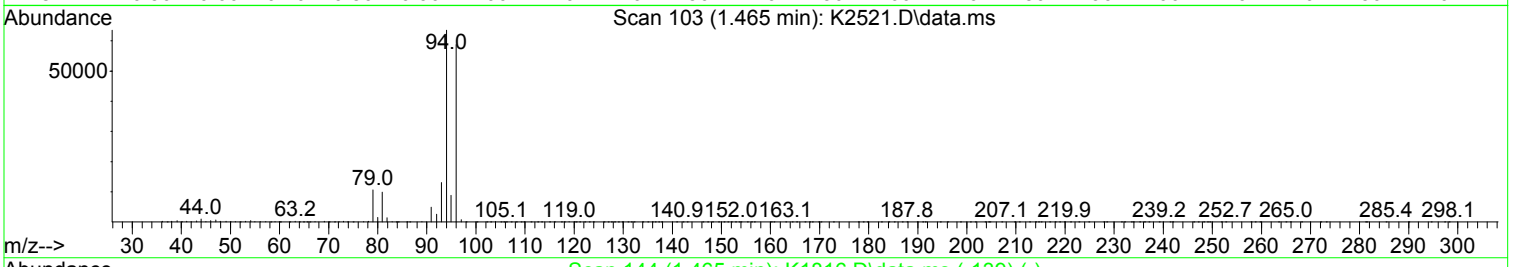
06/05/24

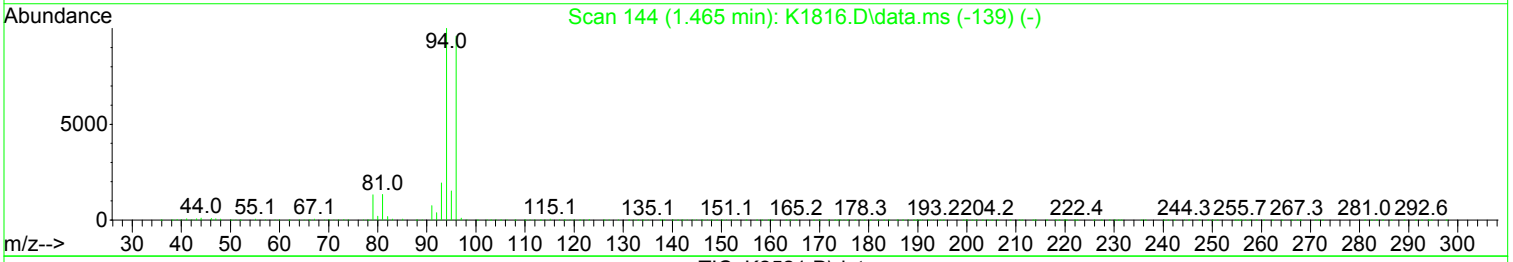
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2521.D
Acq On : 04 Jun 2024 05:01 pm
Operator : K.Ruest
Sample : 50ppb
Misc : 8260/624 ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 09:54:21 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2521.D\data.ms

(6) Bromomethane (P)

1.465min (+ 0.000) 46.69 ug/L m

response 92381

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	96.00	92.46
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

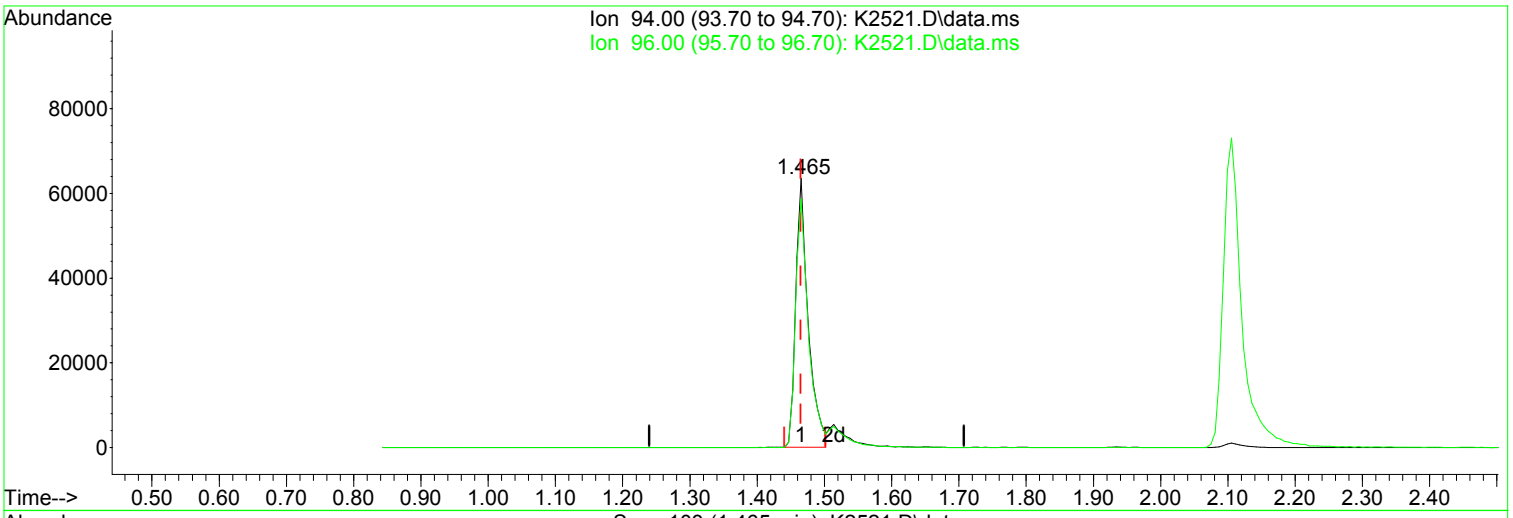
Split Peak.

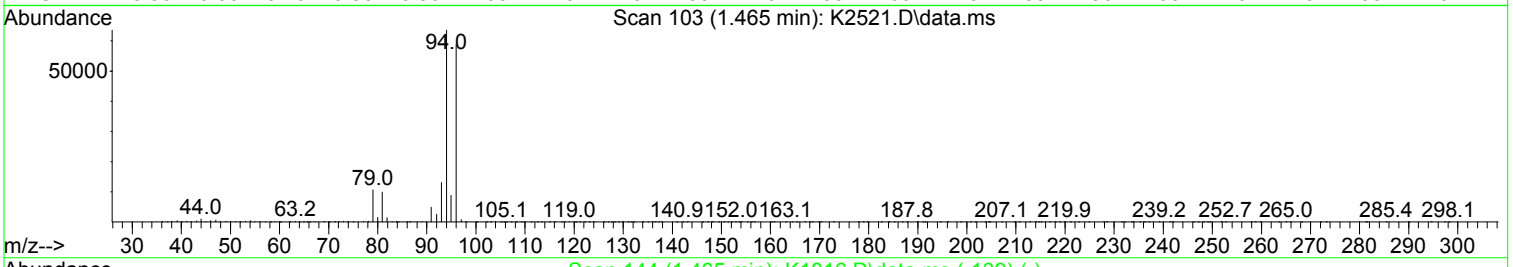
06/05/24

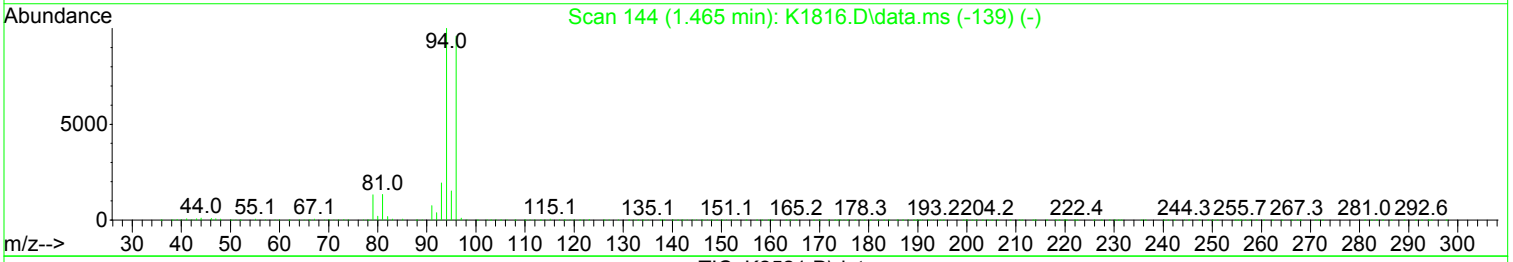
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2521.D
Acq On : 04 Jun 2024 05:01 pm
Operator : K.Ruest
Sample : 50ppb
Misc : 8260/624 ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 09:54:21 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2521.D\data.ms

(6) Bromomethane (P)

1.465min (+ 0.000) 41.19 ug/L

response 81490

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	96.00	92.46
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

06/05/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2521.D
Acq On : 04 Jun 2024 05:01 pm
Operator : K.Ruest
Sample : 50ppb
Misc : 8260/624 ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 09:54:21 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.995	168	379484	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.172	114	574052	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.573	117	510517	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	11.646	152	264987	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.830	113	197841	51.15	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 102.30%				
48) surr1,1,2-dichloroetha...	5.422	65	236813	50.53	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 101.06%				
65) SURR3,Toluene-d8	8.049	98	683786	51.02	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.04%				
70) SURR2,BFB	10.665	95	248294	49.28	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 98.56%				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.087	51	160646	51.291	ug/L		98
3) Dichlorodifluoromethane	1.075	85	237364	52.818	ug/L		99
4) Chloromethane	1.197	50	196220	46.170	ug/L		99
5) Vinyl Chloride	1.264	62	190804	50.171	ug/L		98
6) Bromomethane	1.465	94	92381m	46.690	ug/L		
7) Chloroethane	1.538	64	123379	54.671	ug/L		98
8) Freon 21	1.679	67	272284	50.352	ug/L		98
9) Trichlorofluoromethane	1.715	101	258476	49.759	ug/L		100
10) Diethyl Ether	1.935	59	134594	50.277	ug/L		92
11) Freon 123a	1.941	67	154045	48.509	ug/L		91
12) Freon 123	1.983	83	204844	51.109	ug/L		97
13) Acrolein	2.026	56	95409	242.695	ug/L		99
14) 1,1-Diclethene	2.105	96	141094	48.677	ug/L		94
15) Freon 113	2.111	101	143899	47.936	ug/L		99
16) Acetone	2.154	43	49519	45.792	ug/L		97
17) 2-Propanol	2.282	45	212098	977.349	ug/L		97
18) Iodomethane	2.227	142	94905	40.766	ug/L		91
19) Carbon Disulfide	2.276	76	399048	49.713	ug/L		100
20) Acetonitrile	2.404	41	141478m	135.339	ug/L		
21) Allyl Chloride	2.410	76	75569	50.640	ug/L	#	74
22) Methyl Acetate	2.434	43	147279	47.945	ug/L		94
23) Methylene Chloride	2.520	84	149113	48.280	ug/L		93
24) TBA	2.654	59	417693	933.475	ug/L		97
25) Acrylonitrile	2.758	53	318504	239.053	ug/L		99
26) Methyl-t-Butyl Ether	2.794	73	467673	48.481	ug/L		98
27) trans-1,2-Dichloroethene	2.782	96	149361	48.806	ug/L		91
28) 1,1-Diclethane	3.245	63	276234	48.532	ug/L		99
29) Vinyl Acetate	3.337	86	19103	49.377	ug/L	#	28
30) DIPE	3.355	45	409578	50.410	ug/L		96
31) 2-Chloro-1,3-Butadiene	3.355	53	250578	51.995	ug/L		91
32) ETBE	3.843	59	523072	50.582	ug/L		97
33) 2,2-Dichloropropane	4.007	77	237480	52.650	ug/L		98
34) cis-1,2-Dichloroethene	4.020	96	168888	52.100	ug/L		89
35) 2-Butanone	4.074	43	66427	46.924	ug/L		93
36) Propionitrile	4.154	54	132711	241.581	ug/L		95
37) Bromochloromethane	4.385	130	116128	53.360	ug/L		99
38) Methacrylonitrile	4.398	67	71266	48.966	ug/L		97
39) Tetrahydrofuran	4.477	42	43328	46.441	ug/L		87
40) Chloroform	4.550	83	272584	48.863	ug/L		98

1st 06/05/24
2nd 06/06/24

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2521.D
Acq On : 04 Jun 2024 05:01 pm
Operator : K.Ruest
Sample : 50ppb
Misc : 8260/624 ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 09:54:21 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-Trichloroethane	4.824	97	258859	48.707	ug/L	98
42) TAME	5.763	73	449794	49.556	ug/L	92
44) Cyclohexane	4.916	41	121592	50.486	ug/L	100
46) Carbontetrachloride	5.129	117	238889	44.796	ug/L	97
47) 1,1-Dichloropropene	5.141	75	180380	44.321	ug/L	99
49) Benzene	5.495	78	533792	48.215	ug/L	94
50) 1,2-Dichloroethane	5.544	62	247741	48.413	ug/L	99
51) Iso-Butyl Alcohol	5.568	43	126907	938.764	ug/L	100
52) n-Heptane	6.025	43	143308	43.844	ug/L	92
53) 1-Butanol	6.586	56	249788	2557.926	ug/L	99
54) Trichloroethene	6.507	130	174182	48.309	ug/L	99
55) Methylcyclohexane	6.745	55	201509	49.542	ug/L	88
56) 1,2-Diclpropane	6.806	63	150795	47.876	ug/L	98
57) Dibromomethane	6.952	93	104156	48.052	ug/L	96
58) 1,4-Dioxane	7.031	88	45826	932.323	ug/L	96
59) Methyl Methacrylate	7.062	69	107176	49.363	ug/L	88
60) Bromodichloromethane	7.196	83	219719	50.256	ug/L	98
61) 2-Nitropropane	7.501	41	98892	98.292	ug/L	97
62) 2-Chloroethylvinyl Ether	7.623	63	102751	48.277	ug/L	96
63) cis-1,3-Dichloropropene	7.751	75	233246	50.657	ug/L	100
64) 4-Methyl-2-pentanone	7.976	43	143976	47.949	ug/L	98
66) Toluene	8.122	91	593148	46.529	ug/L	99
67) trans-1,3-Dichloropropene	8.409	75	219145	50.895	ug/L	99
68) Ethyl Methacrylate	8.561	69	205974	49.762	ug/L	90
69) 1,1,2-Trichloroethane	8.604	97	150664	49.352	ug/L	96
72) Tetrachloroethene	8.726	164	129644	46.293	ug/L	97
73) 2-Hexanone	8.909	43	99913	46.531	ug/L	97
74) 1,3-Dichloropropane	8.775	76	228822	47.752	ug/L	93
75) Dibromochloromethane	9.000	129	193612	50.114	ug/L	98
76) N-Butyl Acetate	9.074	43	223130	48.493	ug/L	98
77) 1,2-Dibromoethane	9.098	107	145623	47.737	ug/L	99
78) 3-Chlorobenzotrifluoride	9.634	180	247988	48.613	ug/L	96
79) Chlorobenzene	9.598	112	415068	45.623	ug/L	100
80) 4-Chlorobenzotrifluoride	9.689	180	226779	49.233	ug/L	99
81) 1,1,1,2-Tetrachloroethane	9.695	131	177140	48.649	ug/L	97
82) Ethylbenzene	9.726	106	217459	45.555	ug/L	99
83) (m+p)Xylene	9.842	106	541550	93.769	ug/L	97
84) o-Xylene	10.201	106	272433	47.434	ug/L	99
85) Styrene	10.220	104	460377	48.677	ug/L	99
86) Bromoform	10.366	173	116994	51.497	ug/L	97
87) 2-Chlorobenzotrifluoride	10.457	180	241266	49.312	ug/L	98
88) Isopropylbenzene	10.543	105	695835	46.741	ug/L	99
89) Cyclohexanone	10.610	55	267029	808.481	ug/L	99
90) trans-1,4-Dichloro-2-B...	10.860	53	54046	45.221	ug/L	90
92) 1,1,2,2-Tetrachloroethane	10.811	83	190611	45.508	ug/L	99
93) Bromobenzene	10.781	156	186199	46.091	ug/L	95
94) 1,2,3-Trichloropropane	10.835	110	67999	44.160	ug/L	95
95) n-Propylbenzene	10.902	91	769446	45.394	ug/L	98
96) 2-Chlorotoluene	10.957	91	473064	45.284	ug/L	98
97) 3-Chlorotoluene	11.012	91	543643	48.163	ug/L	97
98) 4-Chlorotoluene	11.055	91	552924	45.700	ug/L	99
99) 1,3,5-Trimethylbenzene	11.055	105	604526	45.456	ug/L	99
100) tert-Butylbenzene	11.329	119	522377	44.750	ug/L	99
101) 1,2,4-Trimethylbenzene	11.366	105	612300	46.028	ug/L	99
102) 3,4-Dichlorobenzotrifl...	11.433	214	180182	48.197	ug/L	97
103) sec-Butylbenzene	11.512	105	717035	44.616	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2521.D
Acq On : 04 Jun 2024 05:01 pm
Operator : K.Ruest
Sample : 50ppb
Misc : 8260/624 ICAL
ALS Vial : 7 Sample Multiplier: 1

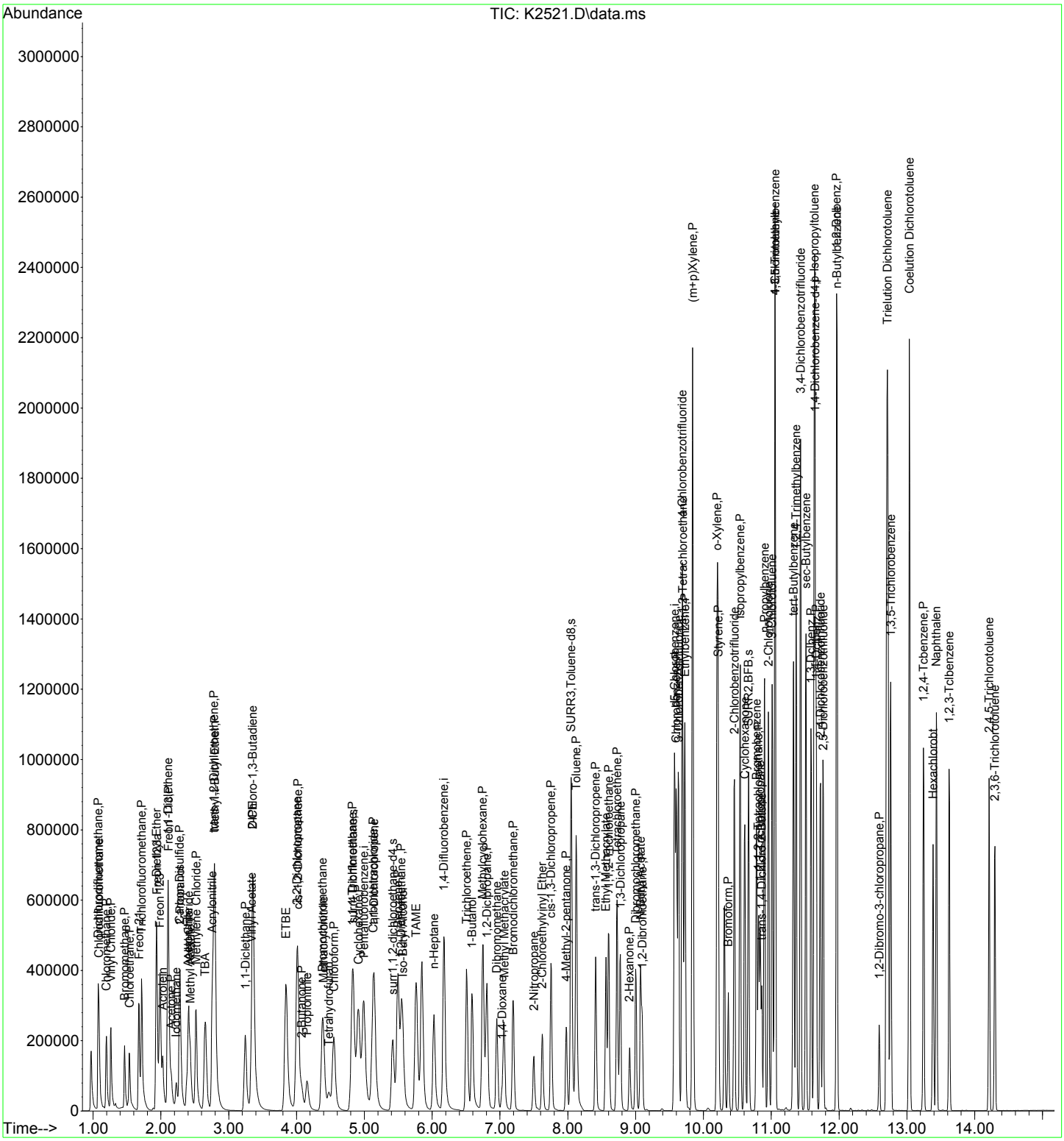
Quant Time: Jun 05 09:54:21 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) p-Isopropyltoluene	11.634	119	649847	46.198	ug/L	99
105) 1,3-Dclbenz	11.585	146	353568	45.242	ug/L	99
106) 1,4-Dclbenz	11.665	146	354720	44.694	ug/L	98
107) 2,4-Dichlorobenzotrifl...	11.725	214	159595	48.727	ug/L	97
108) 2,5-Dichlorobenzotrifl...	11.768	214	183151	49.964	ug/L	98
109) n-Butylbenzene	11.969	91	540347	45.805	ug/L	98
110) 1,2-Dclbenz	11.963	146	349629	45.918	ug/L	99
111) 1,2-Dibromo-3-chloropr...	12.591	157	51025	48.640	ug/L	96
112) Trielution Dichlorotol...	12.713	125	1050831	151.568	ug/L	99
113) 1,3,5-Trichlorobenzene	12.762	180	271464	50.529	ug/L	98
114) Coelution Dichlorotoluene	13.036	125	739526	100.580	ug/L	99
115) 1,2,4-Tcbenzene	13.243	180	232115	47.215	ug/L	98
116) Hexachlorobt	13.384	225	98653	45.758	ug/L	98
117) Naphthalen	13.432	128	710626	49.850	ug/L	99
118) 1,2,3-Tclbenzene	13.621	180	223513	48.066	ug/L	98
119) 2,4,5-Trichlorotoluene	14.213	159	188884	52.504	ug/L	100
120) 2,3,6-Trichlorotoluene	14.298	159	148732	48.278	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2521.D
Acq On : 04 Jun 2024 05:01 pm
Operator : K.Ruest
Sample : 50ppb
Misc : 8260/624 ICAL
ALS Vial : 7 Sample Multiplier: 1

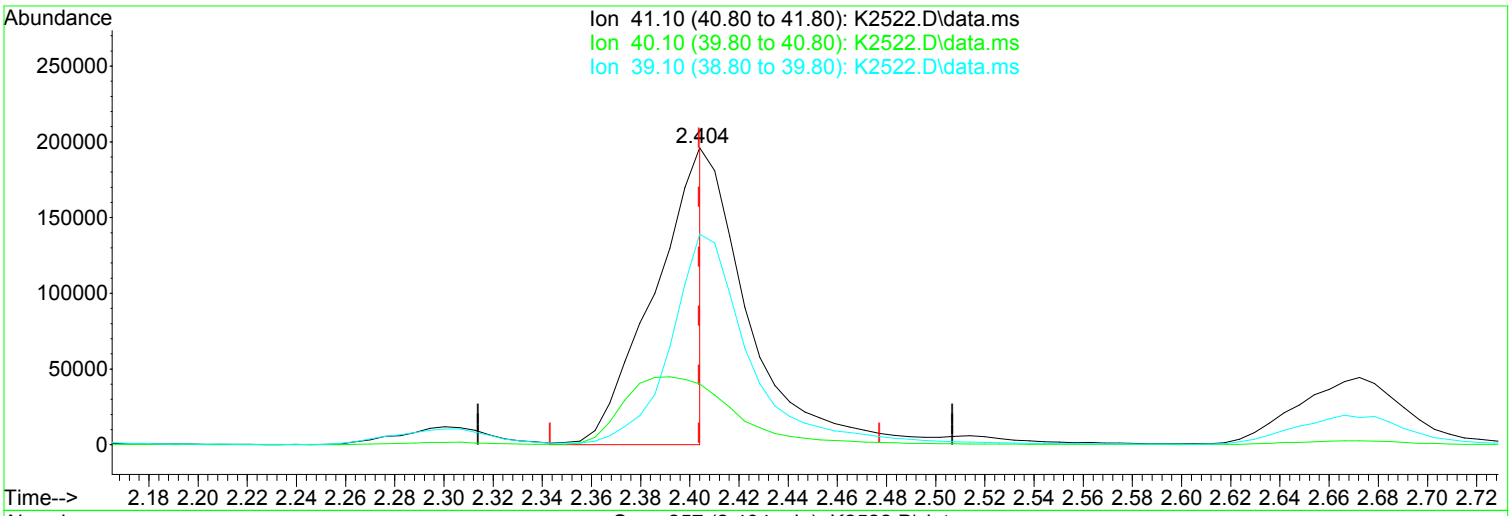
Quant Time: Jun 05 09:54:21 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

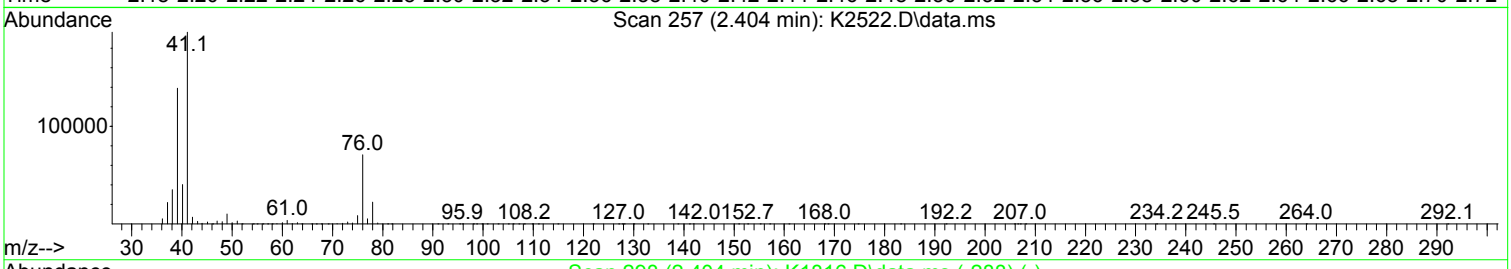


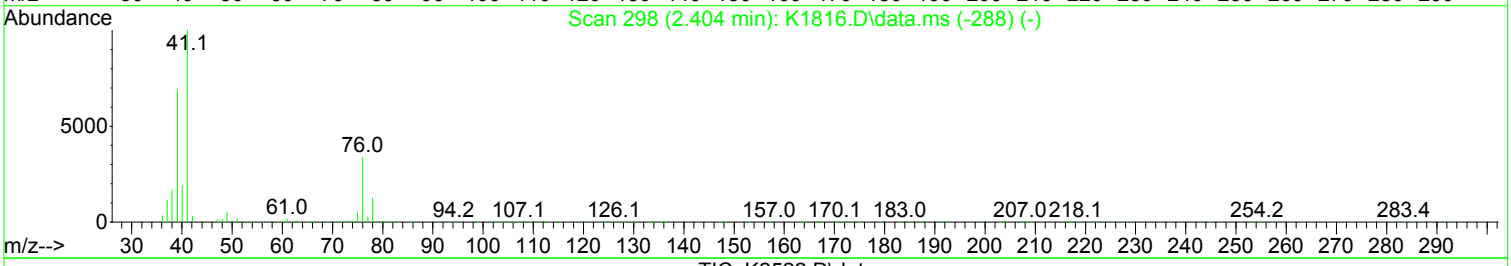
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2522.D
Acq On : 04 Jun 2024 05:24 pm
Operator : K.Ruest
Sample : 100ppb
Misc : 8260/624 ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 09:54:26 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2522.D\data.ms

(20) Acetonitrile

2.404min (+ 0.000) 279.08 ug/L m

response 282155

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	19.40	20.50
39.10	69.50	70.87
0.00	0.00	0.00

Manual Integration:

After

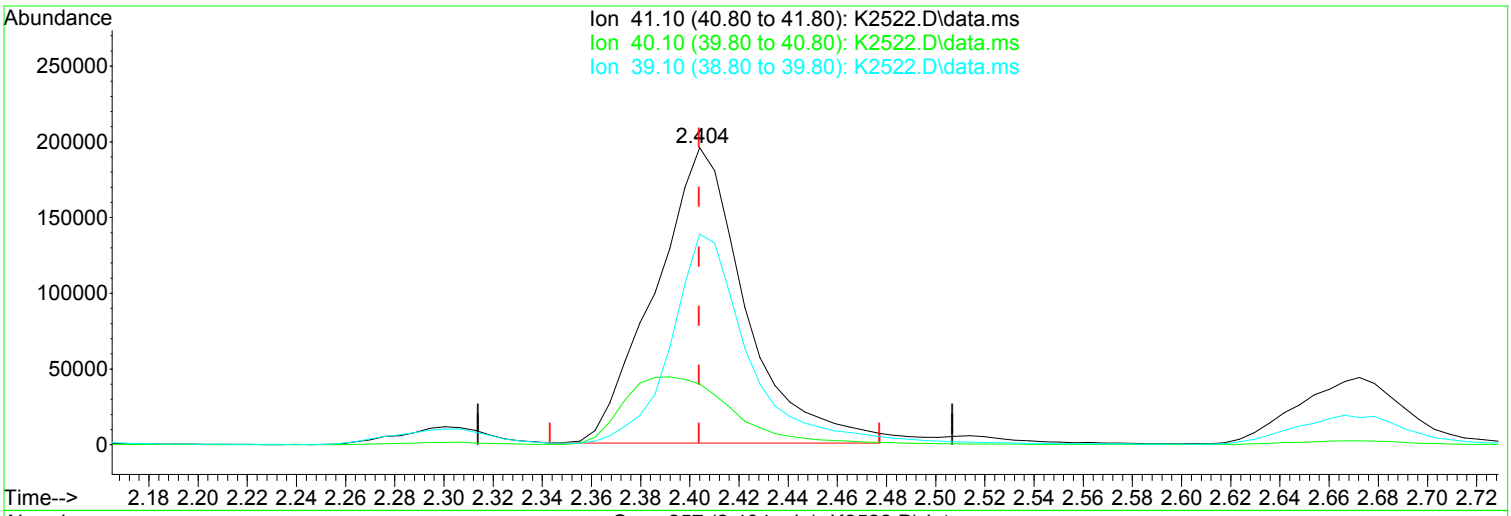
Poor integration.

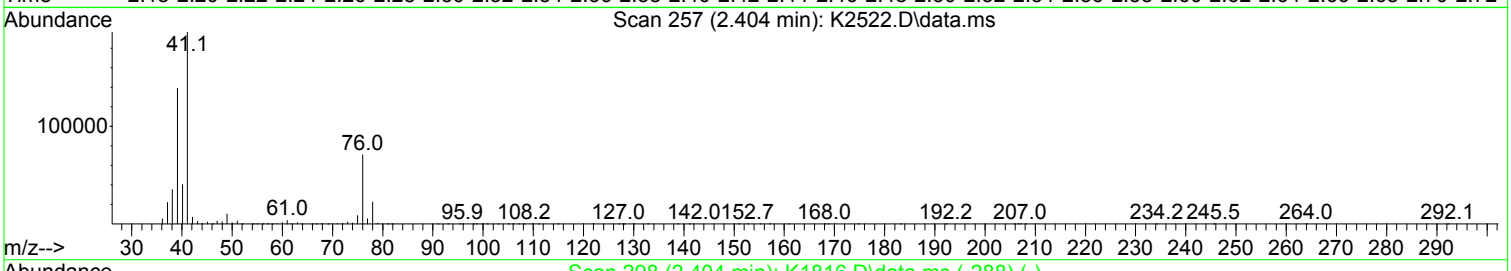
06/05/24

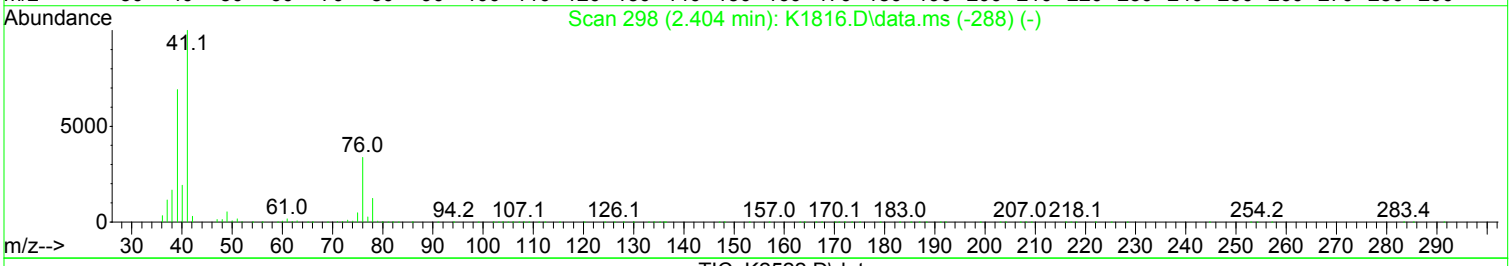
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2522.D
Acq On : 04 Jun 2024 05:24 pm
Operator : K.Ruest
Sample : 100ppb
Misc : 8260/624 ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 09:54:26 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2522.D\data.ms

(20) Acetonitrile

2.404min (+ 0.000) 492.70 ug/L

response 498121

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	19.40	20.50
39.10	69.50	70.87
0.00	0.00	0.00

Manual Integration:

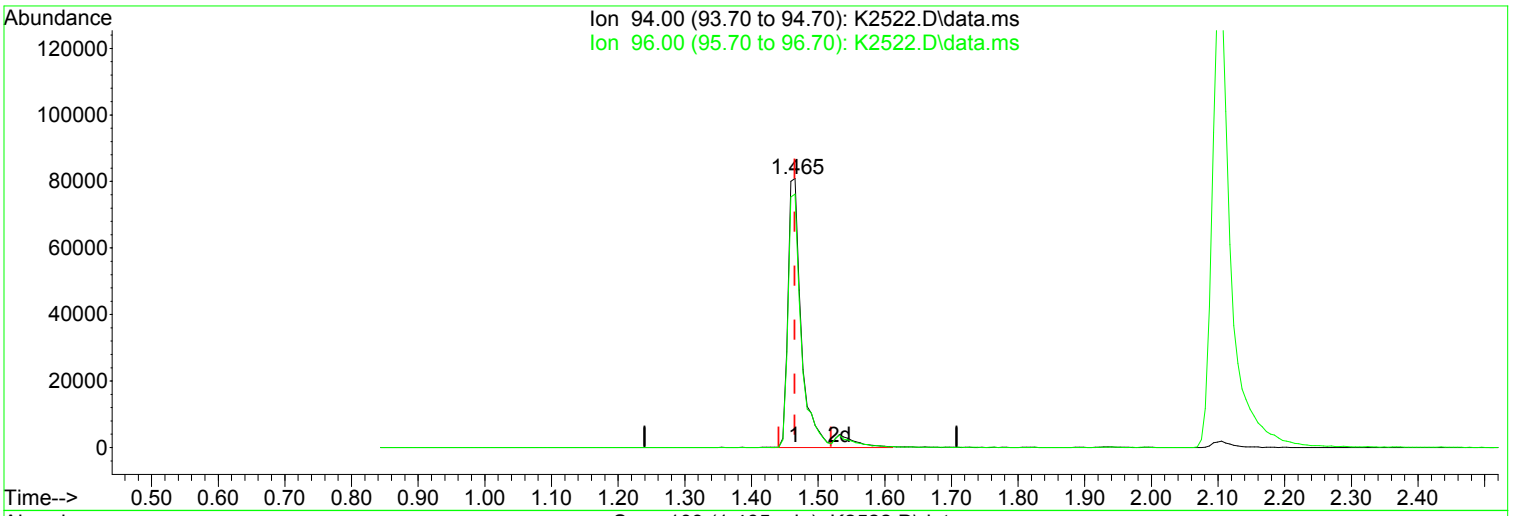
Before

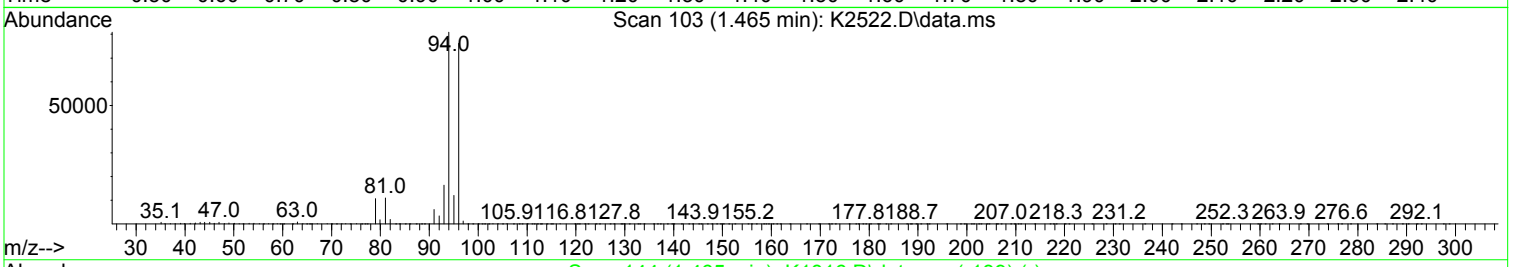
06/05/24

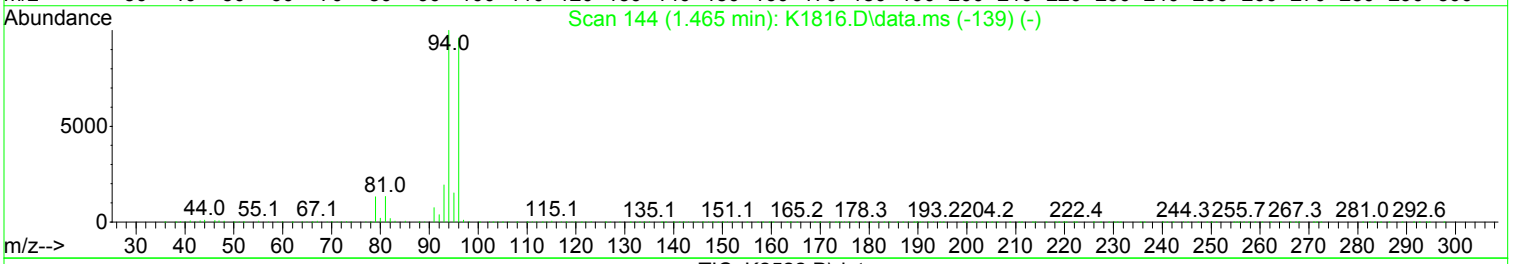
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2522.D
Acq On : 04 Jun 2024 05:24 pm
Operator : K.Ruest
Sample : 100ppb
Misc : 8260/624 ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 09:54:26 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2522.D\data.ms

(6) Bromomethane (P)

1.465min (+ 0.000) 62.23 ug/L m

response 119084

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	96.00	94.19
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

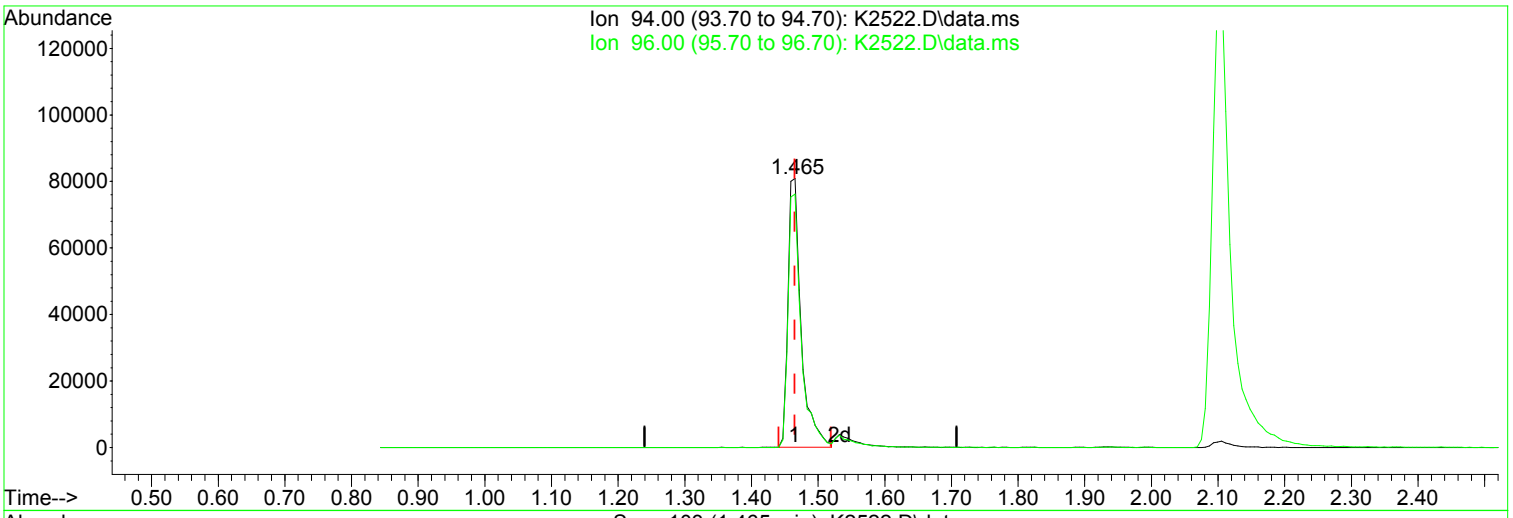
Poor integration.

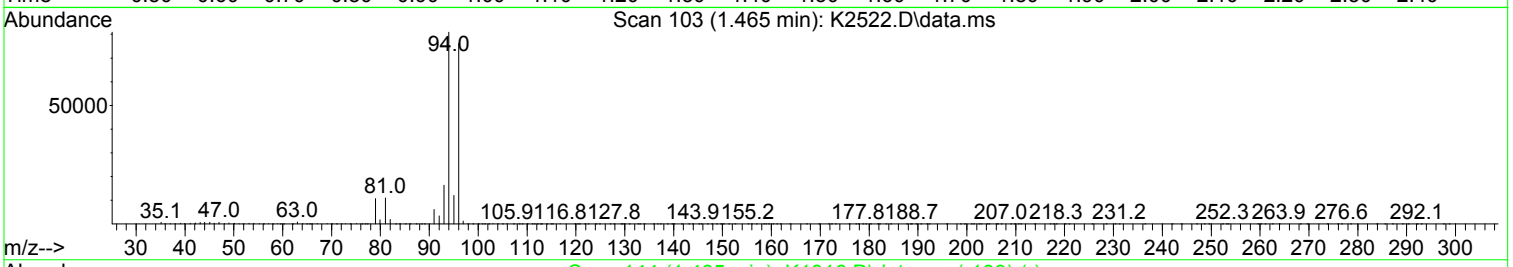
06/05/24

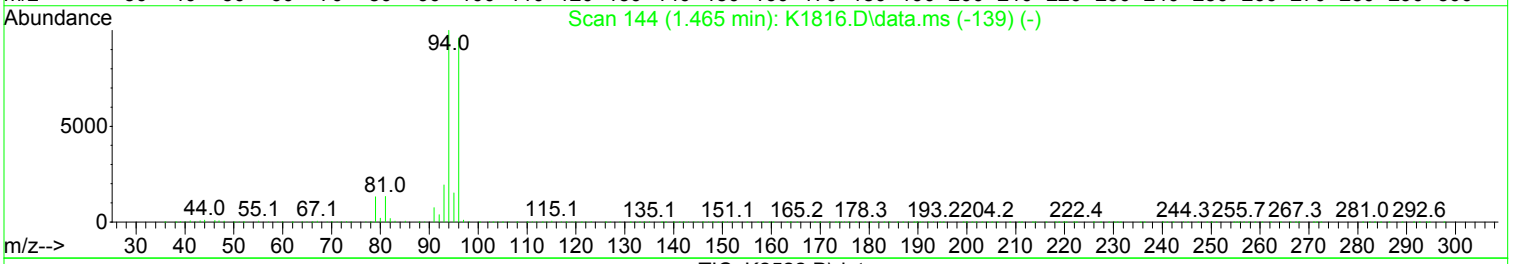
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2522.D
Acq On : 04 Jun 2024 05:24 pm
Operator : K.Ruest
Sample : 100ppb
Misc : 8260/624 ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 09:54:26 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2522.D\data.ms

(6) Bromomethane (P)

1.465min (+ 0.000) 57.56 ug/L

response 110140

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	96.00	94.19
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

06/05/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2522.D
Acq On : 04 Jun 2024 05:24 pm
Operator : K.Ruest
Sample : 100ppb
Misc : 8260/624 ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 09:54:26 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.989	168	367014	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.172	114	550058	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.573	117	501212	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	11.646	152	268531	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.830	113	374690	101.10	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 202.20%#				
48) surr1,1,2-dichloroetha...	5.416	65	455092	101.33	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 202.66%#				
65) SURR3,Toluene-d8	8.049	98	1282936	99.89	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 199.78%#				
70) SURR2,BFB	10.665	95	499802	103.53	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 207.06%#				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.087	51	317652	104.865	ug/L		99
3) Dichlorodifluoromethane	1.075	85	463586	106.661	ug/L		99
4) Chloromethane	1.197	50	375440	91.341	ug/L		98
5) Vinyl Chloride	1.264	62	379803	103.261	ug/L		97
6) Bromomethane	1.465	94	119084m	62.231	ug/L		
7) Chloroethane	1.526	64	240463	110.173	ug/L		100
8) Freon 21	1.672	67	522120	99.833	ug/L		99
9) Trichlorofluoromethane	1.715	101	512019	101.916	ug/L		98
10) Diethyl Ether	1.929	59	257578	99.485	ug/L		91
11) Freon 123a	1.935	67	298253	97.112	ug/L		96
12) Freon 123	1.983	83	393722	101.573	ug/L		96
13) Acrolein	2.026	56	170914	449.531	ug/L		99
14) 1,1-Diclethene	2.105	96	273600	97.598	ug/L		94
15) Freon 113	2.105	101	293871	101.221	ug/L		98
16) Acetone	2.154	43	94122	89.995	ug/L		94
17) 2-Propanol	2.300	45	402349	1917.021	ug/L		99
18) Iodomethane	2.227	142	322524	143.246	ug/L		92
19) Carbon Disulfide	2.276	76	762335	98.199	ug/L		100
20) Acetonitrile	2.404	41	282155m	279.083	ug/L		
21) Allyl Chloride	2.410	76	146148	101.263	ug/L	#	81
22) Methyl Acetate	2.435	43	278486	93.738	ug/L		95
23) Methylene Chloride	2.514	84	285034	95.423	ug/L		91
24) TBA	2.672	59	828031	1913.387	ug/L		95
25) Acrylonitrile	2.758	53	619055	480.417	ug/L		100
26) Methyl-t-Butyl Ether	2.794	73	902666	96.754	ug/L		97
27) trans-1,2-Dichloroethene	2.782	96	291051	98.337	ug/L		93
28) 1,1-Diclethane	3.245	63	543383	98.711	ug/L		99
29) Vinyl Acetate	3.331	86	39259	104.923	ug/L	#	74
30) DIPE	3.361	45	777575	98.954	ug/L		96
31) 2-Chloro-1,3-Butadiene	3.355	53	479673	102.913	ug/L		89
32) ETBE	3.843	59	991202	99.108	ug/L		97
33) 2,2-Dichloropropane	4.007	77	483533	110.843	ug/L		98
34) cis-1,2-Dichloroethene	4.014	96	331037	105.592	ug/L		88
35) 2-Butanone	4.074	43	127922	93.435	ug/L		95
36) Propionitrile	4.160	54	260690	490.672	ug/L		98
37) Bromochloromethane	4.379	130	228394	108.512	ug/L		93
38) Methacrylonitrile	4.398	67	137030	97.350	ug/L		94
39) Tetrahydrofuran	4.477	42	84965	94.164	ug/L		87
40) Chloroform	4.550	83	533496	98.883	ug/L		96

1st 06/05/24
2nd 06/06/24

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2522.D
Acq On : 04 Jun 2024 05:24 pm
Operator : K.Ruest
Sample : 100ppb
Misc : 8260/624 ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 09:54:26 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-Trichloroethane	4.830	97	531408	103.388	ug/L	98
42) TAME	5.763	73	865003	98.540	ug/L	93
44) Cyclohexane	4.910	41	237970	103.117	ug/L	99
46) Carbontetrachloride	5.129	117	498263	97.509	ug/L	95
47) 1,1-Dichloropropene	5.147	75	368611	94.522	ug/L	99
49) Benzene	5.495	78	1053248	99.284	ug/L	92
50) 1,2-Dichloroethane	5.550	62	487589	99.440	ug/L	97
51) Iso-Butyl Alcohol	5.574	43	259596	2004.064	ug/L	100
52) n-Heptane	6.025	43	320597	102.362	ug/L	91
53) 1-Butanol	6.598	56	499846	5341.895	ug/L	97
54) Trichloroethene	6.507	130	354189	102.519	ug/L	98
55) Methylcyclohexane	6.745	55	401429	102.999	ug/L	89
56) 1,2-Diclpropane	6.806	63	298401	98.873	ug/L	100
57) Dibromomethane	6.952	93	205674	99.026	ug/L	99
58) 1,4-Dioxane	7.031	88	91582	1944.498	ug/L	94
59) Methyl Methacrylate	7.062	69	213422	102.586	ug/L	84
60) Bromodichloromethane	7.196	83	433328	103.439	ug/L	98
61) 2-Nitropropane	7.501	41	198331	205.726	ug/L	98
62) 2-Chloroethylvinyl Ether	7.623	63	204599	100.323	ug/L	98
63) cis-1,3-Dichloropropene	7.757	75	460786	104.441	ug/L	98
64) 4-Methyl-2-pentanone	7.976	43	285195	99.122	ug/L	99
66) Toluene	8.123	91	1205055	98.653	ug/L	100
67) trans-1,3-Dichloropropene	8.409	75	440964	106.878	ug/L	99
68) Ethyl Methacrylate	8.561	69	412006	103.880	ug/L	87
69) 1,1,2-Trichloroethane	8.604	97	295748	101.101	ug/L	98
72) Tetrachloroethene	8.726	164	272385	99.069	ug/L	99
73) 2-Hexanone	8.915	43	202712	96.159	ug/L	99
74) 1,3-Dichloropropane	8.775	76	447170	95.051	ug/L	92
75) Dibromochloromethane	9.007	129	398964	105.183	ug/L	100
76) N-Butyl Acetate	9.074	43	447428	99.046	ug/L	98
77) 1,2-Dibromoethane	9.098	107	290633	97.043	ug/L	99
78) 3-Chlorobenzotrifluoride	9.634	180	481545	96.149	ug/L	97
79) Chlorobenzene	9.604	112	845790	94.693	ug/L	98
80) 4-Chlorobenzotrifluoride	9.689	180	428653	94.787	ug/L	97
81) 1,1,1,2-Tetrachloroethane	9.695	131	363111	101.576	ug/L	96
82) Ethylbenzene	9.726	106	456352	97.376	ug/L	97
83) (m+p)Xylene	9.842	106	1112326	196.175	ug/L	100
84) o-Xylene	10.201	106	560747	99.445	ug/L	99
85) Styrene	10.220	104	943158	101.574	ug/L	99
86) Bromoform	10.366	173	246525	110.526	ug/L	99
87) 2-Chlorobenzotrifluoride	10.457	180	467599	97.346	ug/L	99
88) Isopropylbenzene	10.543	105	1465945	100.300	ug/L	99
89) Cyclohexanone	10.610	55	612394	1888.562	ug/L	100
90) trans-1,4-Dichloro-2-B...	10.860	53	114949	97.964	ug/L	90
92) 1,1,2,2-Tetrachloroethane	10.811	83	381998	89.998	ug/L	99
93) Bromobenzene	10.781	156	384035	93.808	ug/L	96
94) 1,2,3-Trichloropropane	10.835	110	137514	88.126	ug/L	92
95) n-Propylbenzene	10.903	91	1647068	95.888	ug/L	97
96) 2-Chlorotoluene	10.957	91	1000837	94.542	ug/L	97
97) 3-Chlorotoluene	11.012	91	1047394	91.567	ug/L	97
98) 4-Chlorotoluene	11.055	91	1150920	93.870	ug/L	99
99) 1,3,5-Trimethylbenzene	11.055	105	1274939	94.602	ug/L	98
100) tert-Butylbenzene	11.329	119	1118386	94.544	ug/L	99
101) 1,2,4-Trimethylbenzene	11.366	105	1301051	96.512	ug/L	99
102) 3,4-Dichlorobenzotrifl...	11.433	214	350351	92.479	ug/L	97
103) sec-Butylbenzene	11.512	105	1544663	94.844	ug/L	99

1st 06/05/24
2nd 06/06/24

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2522.D
Acq On : 04 Jun 2024 05:24 pm
Operator : K.Ruest
Sample : 100ppb
Misc : 8260/624 ICAL
ALS Vial : 8 Sample Multiplier: 1

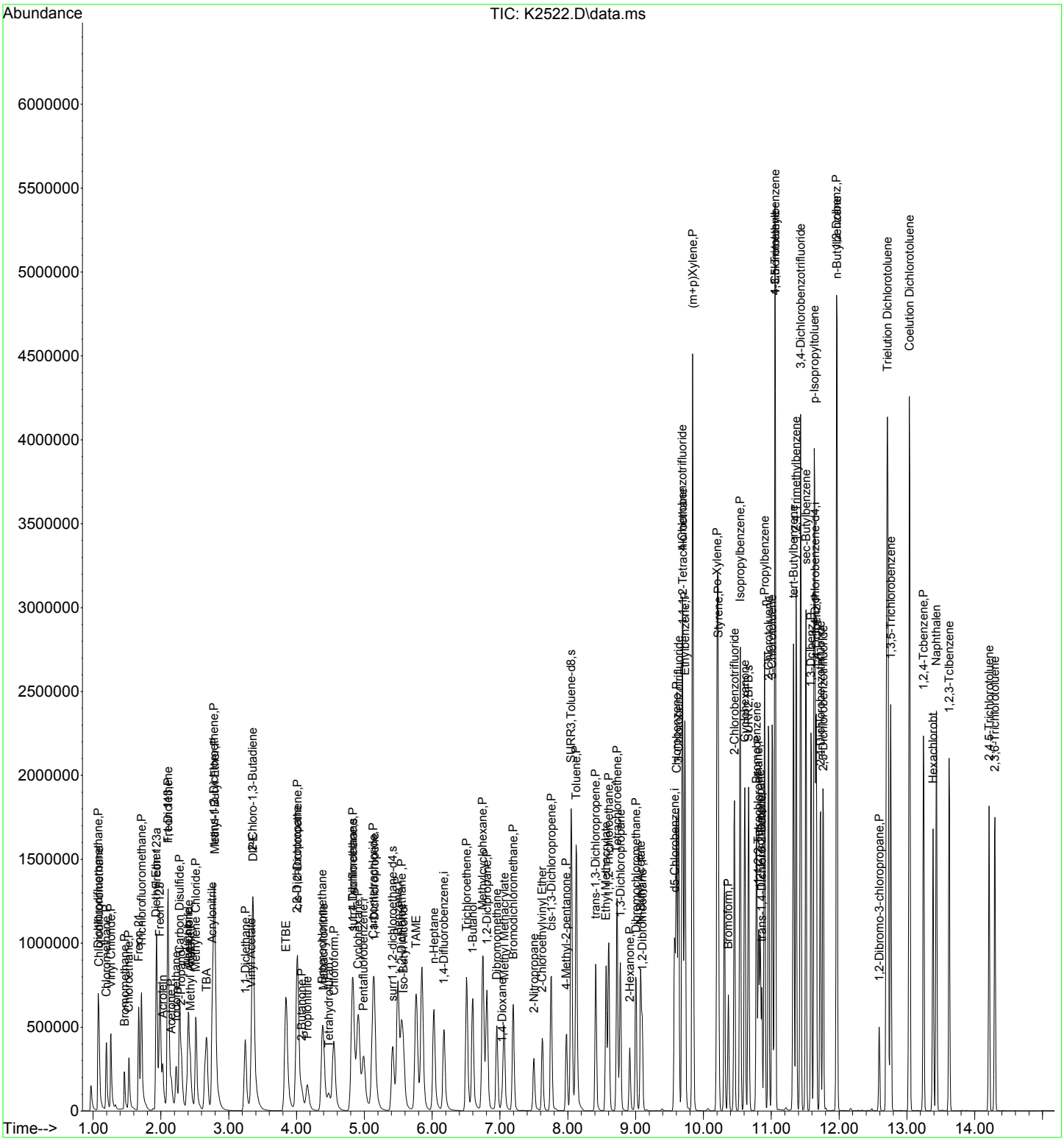
Quant Time: Jun 05 09:54:26 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) p-Isopropyltoluene	11.634	119	1397694	98.051	ug/L	99
105) 1,3-Dclbenz	11.585	146	744256	93.978	ug/L	99
106) 1,4-Dclbenz	11.665	146	743602	92.456	ug/L	98
107) 2,4-Dichlorobenzotrifl...	11.726	214	314400	94.725	ug/L	99
108) 2,5-Dichlorobenzotrifl...	11.768	214	353544	95.174	ug/L	99
109) n-Butylbenzene	11.969	91	1179366	98.655	ug/L	98
110) 1,2-Dclbenz	11.963	146	727110	94.234	ug/L	99
111) 1,2-Dibromo-3-chloropr...	12.591	157	106771	100.437	ug/L	98
112) Trielution Dichlorotol...	12.713	125	2005816	285.493	ug/L	100
113) 1,3,5-Trichlorobenzene	12.762	180	523403	96.137	ug/L	98
114) Coelution Dichlorotoluene	13.036	125	1447817	194.314	ug/L	100
115) 1,2,4-Tcbenzene	13.244	180	506930	101.754	ug/L	99
116) Hexachlorobt	13.384	225	215212	98.504	ug/L	98
117) Naphthalen	13.433	128	1465819	101.470	ug/L	99
118) 1,2,3-Tclbenzene	13.622	180	475402	100.885	ug/L	99
119) 2,4,5-Trichlorotoluene	14.213	159	371625	101.937	ug/L	99
120) 2,3,6-Trichlorotoluene	14.298	159	336003	107.627	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2522.D
Acq On : 04 Jun 2024 05:24 pm
Operator : K.Ruest
Sample : 100ppb
Misc : 8260/624 ICAL
ALS Vial : 8 Sample Multiplier: 1

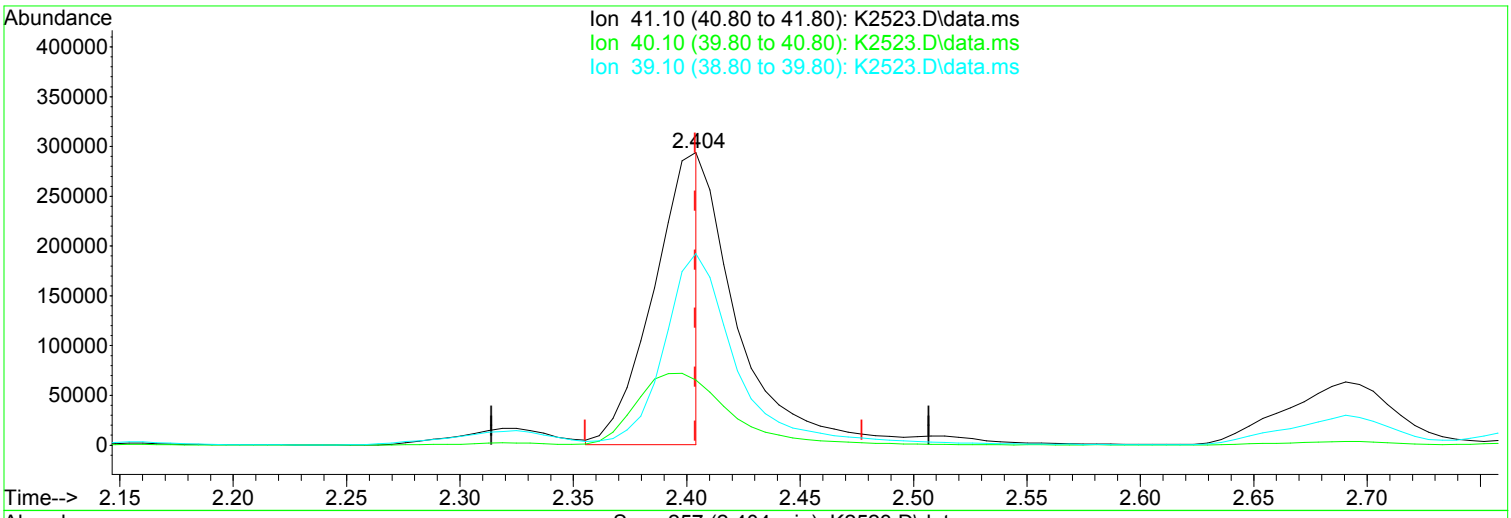
Quant Time: Jun 05 09:54:26 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

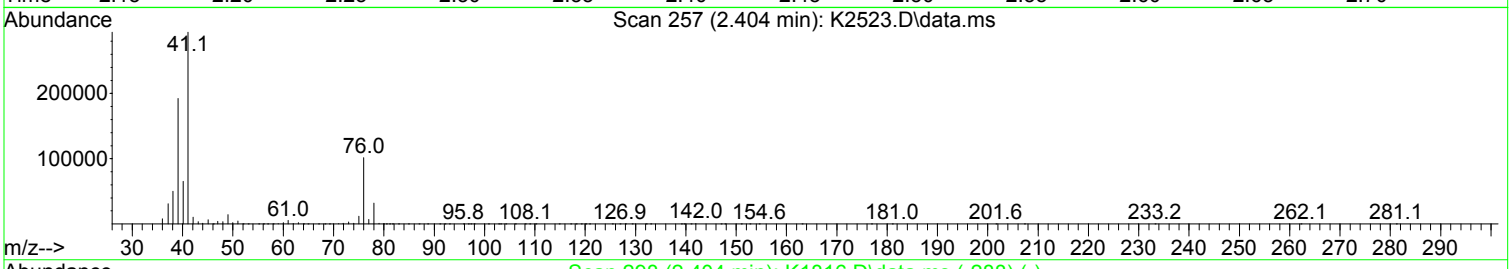


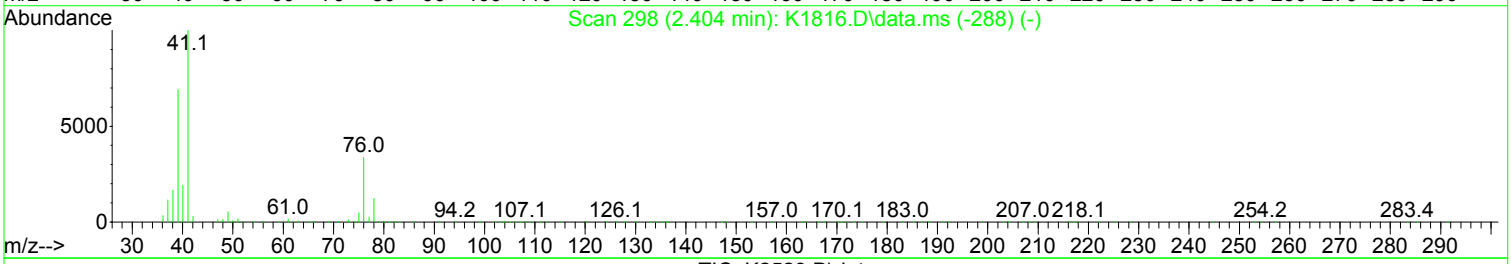
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2523.D
Acq On : 04 Jun 2024 05:47 pm
Operator : K.Ruest
Sample : 150ppb
Misc : 8260/624 ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 09:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2523.D\data.ms

(20) Acetonitrile

2.404min (+ 0.000) 424.26 ug/L m

response 423528

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	19.40	22.26
39.10	69.50	65.45
0.00	0.00	0.00

Manual Integration:

After

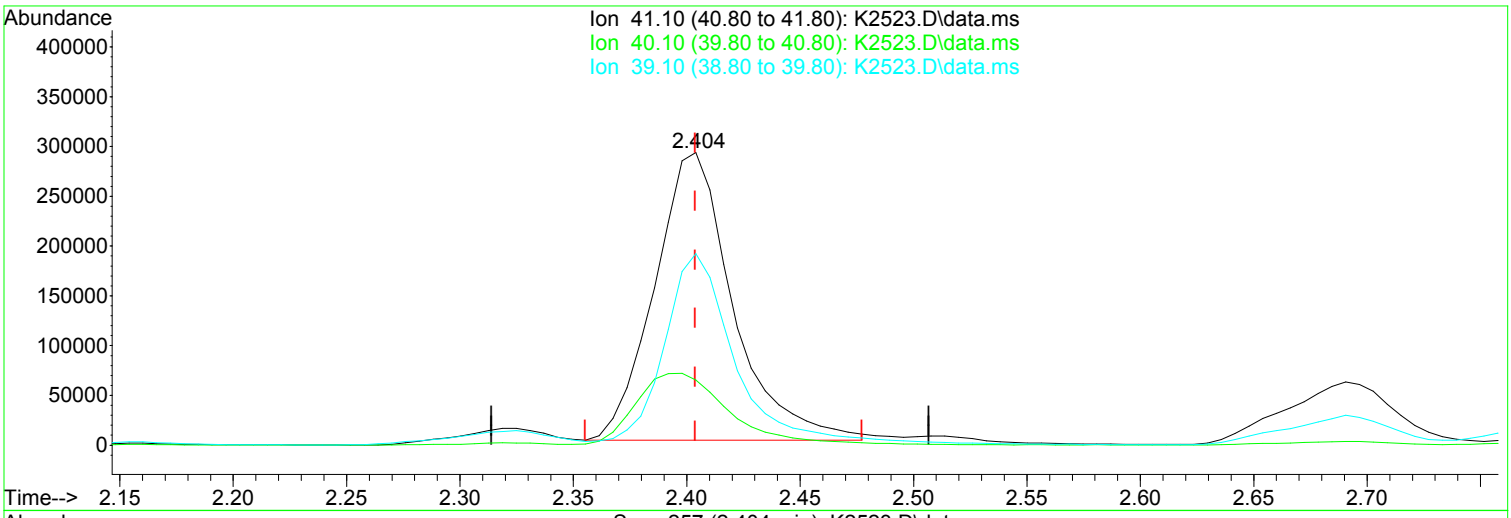
Poor integration.

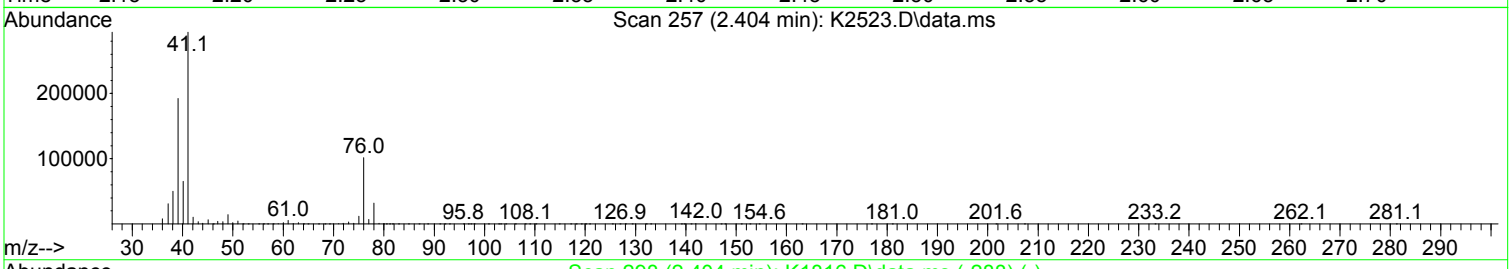
06/05/24

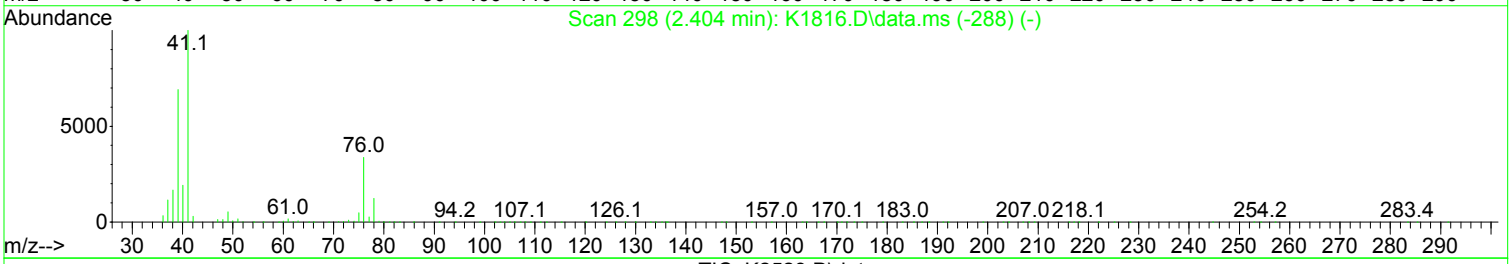
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2523.D
Acq On : 04 Jun 2024 05:47 pm
Operator : K.Ruest
Sample : 150ppb
Misc : 8260/624 ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 09:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2523.D\data.ms

(20) Acetonitrile

2.404min (+ 0.000) 696.93 ug/L

response 695715

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	19.40	22.26
39.10	69.50	65.45
0.00	0.00	0.00

Manual Integration:

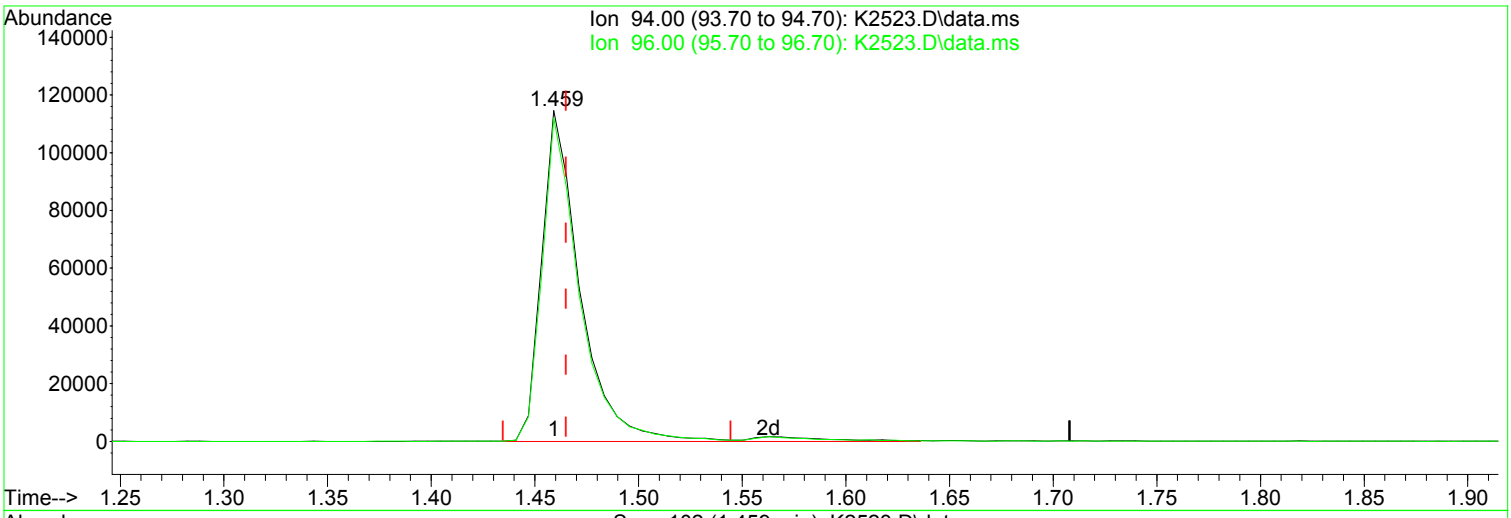
Before

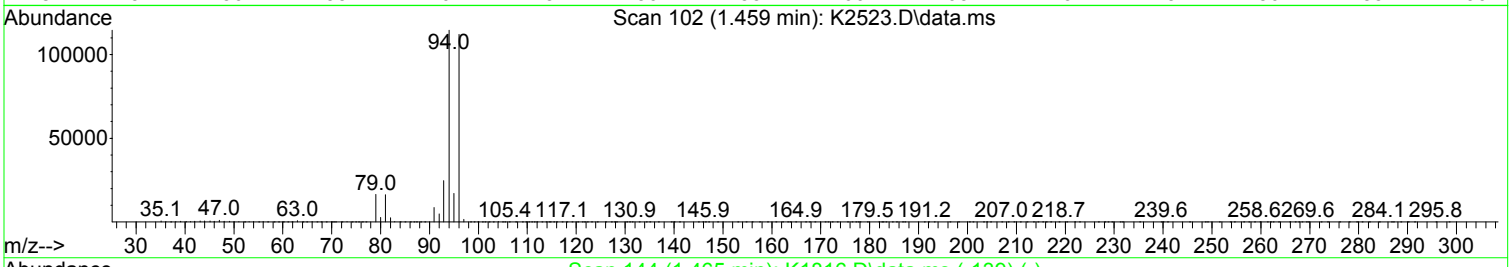
06/05/24

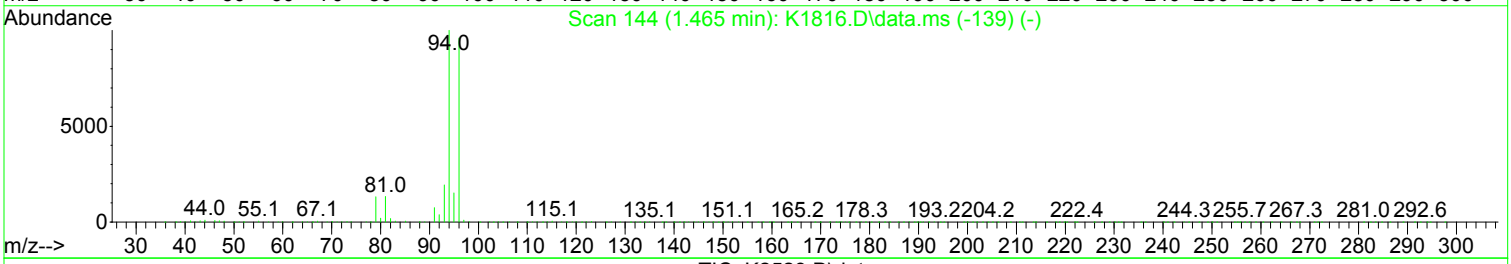
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2523.D
Acq On : 04 Jun 2024 05:47 pm
Operator : K.Ruest
Sample : 150ppb
Misc : 8260/624 ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 09:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2523.D\data.ms

(6) Bromomethane (P)

1.459min (-0.006) 80.00 ug/L m

response 151151

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	96.00	97.80
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

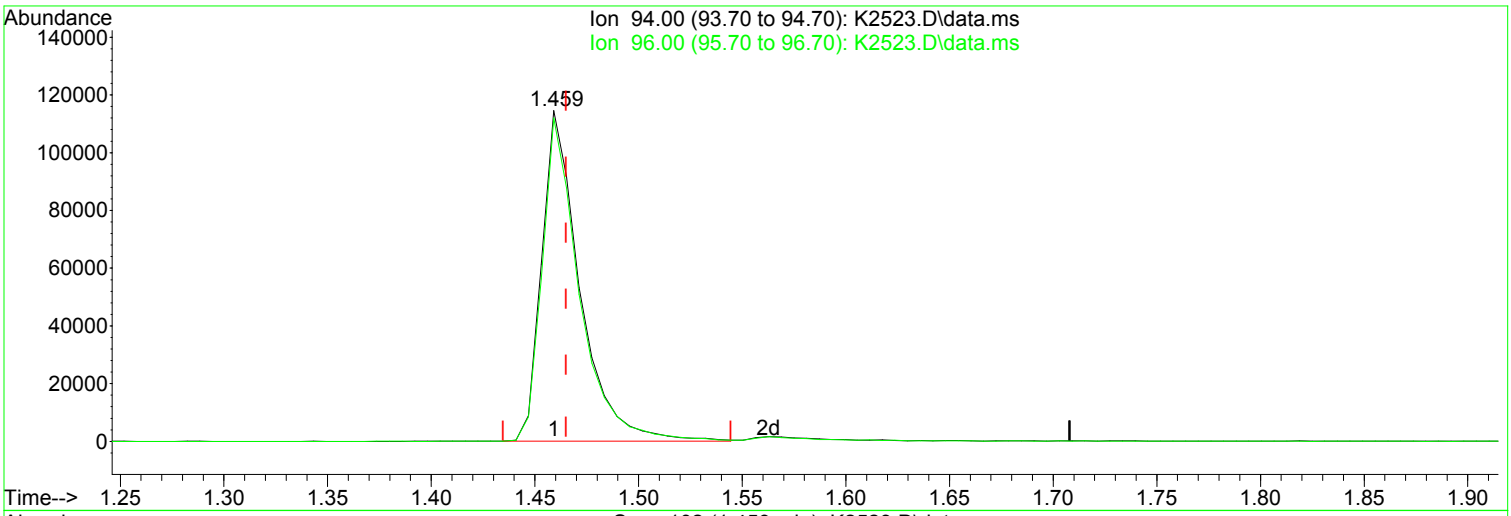
Poor integration.

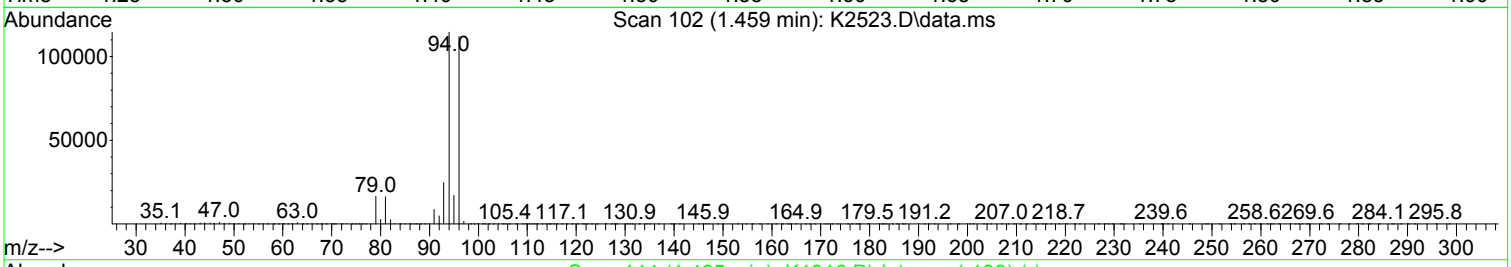
06/05/24

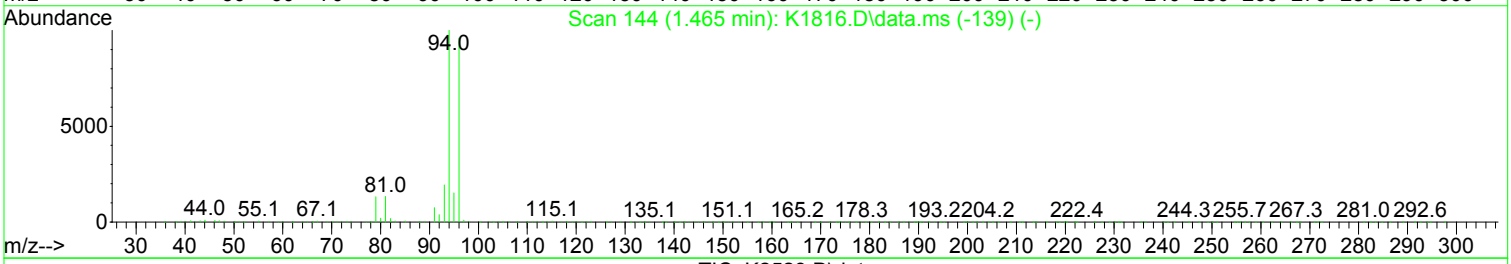
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2523.D
Acq On : 04 Jun 2024 05:47 pm
Operator : K.Ruest
Sample : 150ppb
Misc : 8260/624 ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 09:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2523.D\data.ms

(6) Bromomethane (P)

1.459min (-0.006) 77.46 ug/L

response 146357

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	96.00	97.80
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

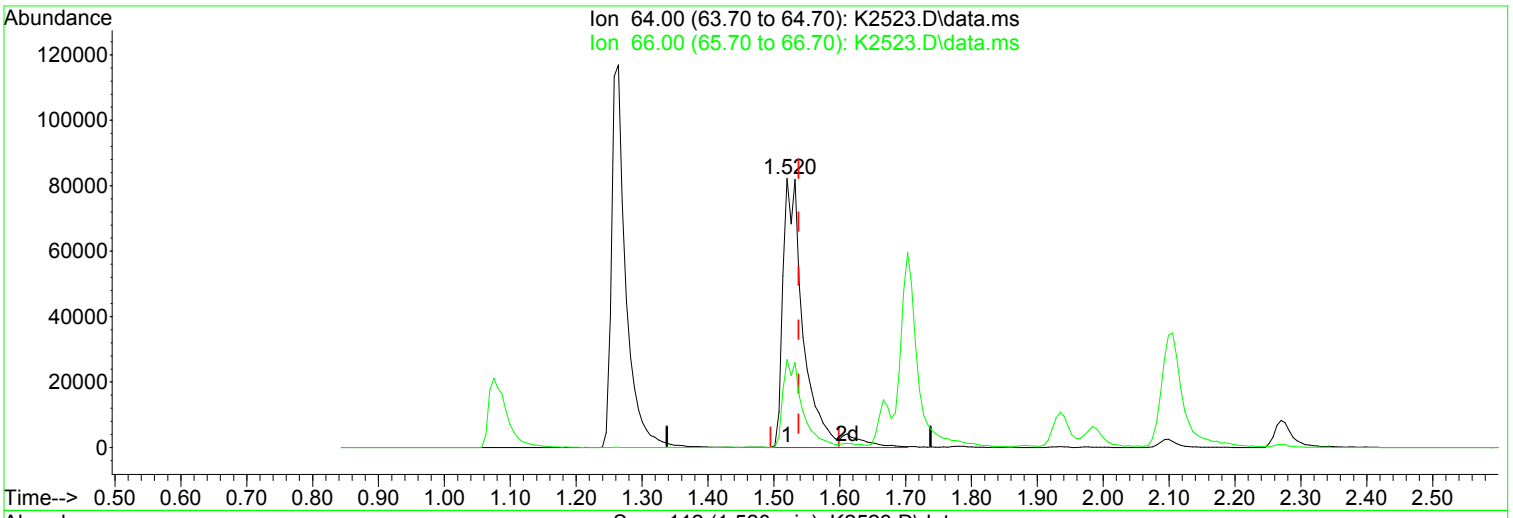
Before

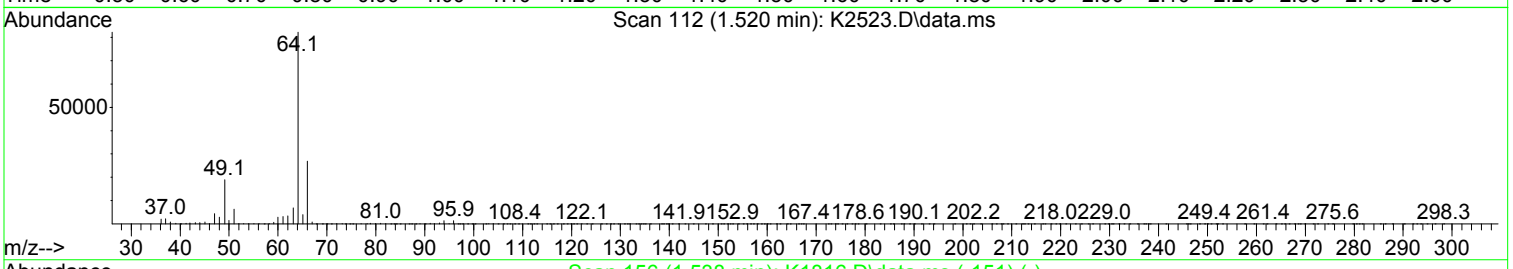
06/05/24

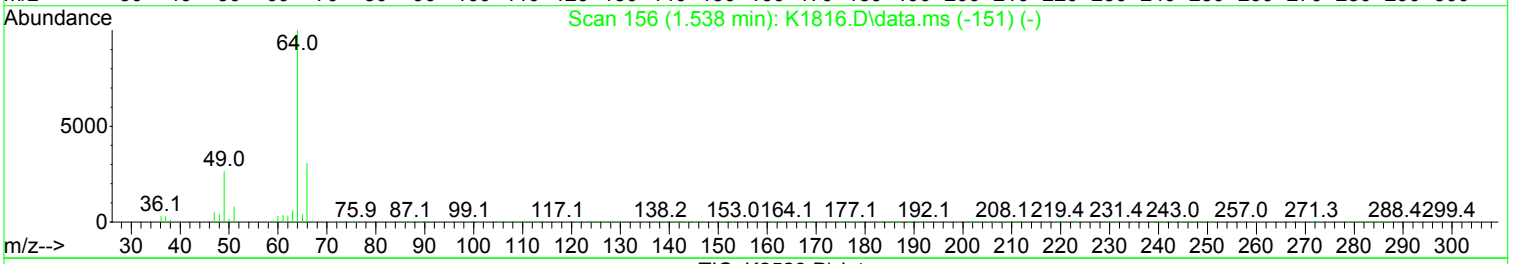
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2523.D
Acq On : 04 Jun 2024 05:47 pm
Operator : K.Ruest
Sample : 150ppb
Misc : 8260/624 ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 09:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2523.D\data.ms

(7) Chloroethane (P)

1.520min (-0.018) 83.97 ug/L m

response 180956

Ion	Exp%	Act%
64.00	100.00	100.00
66.00	30.70	32.75
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

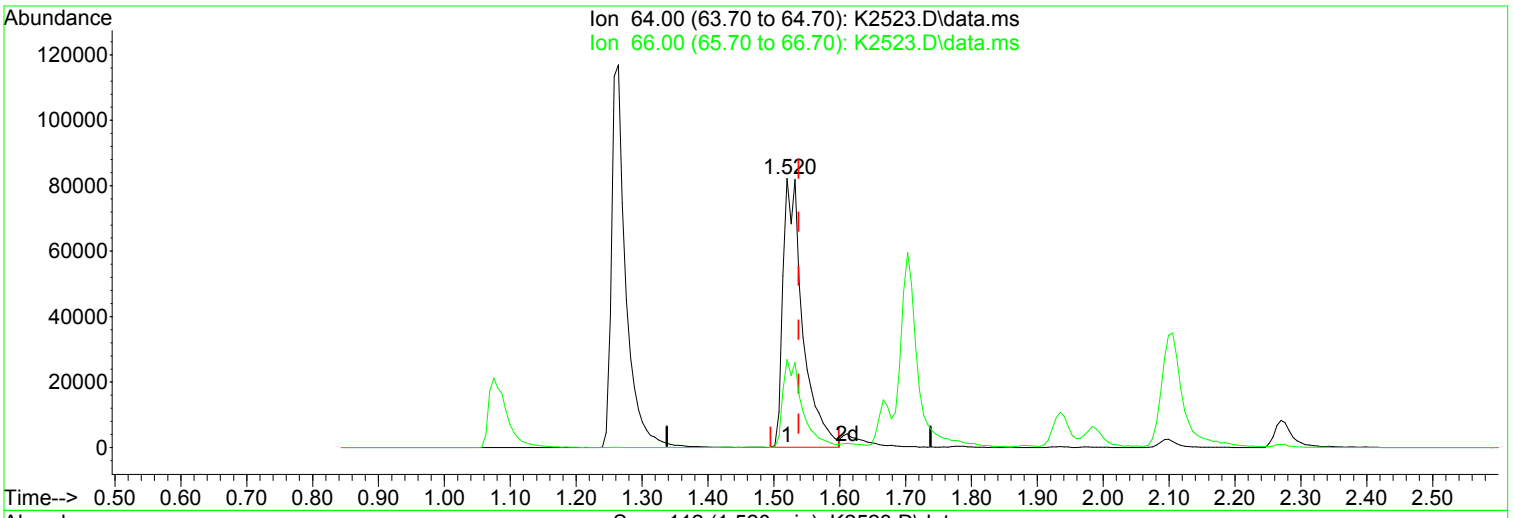
Poor integration.

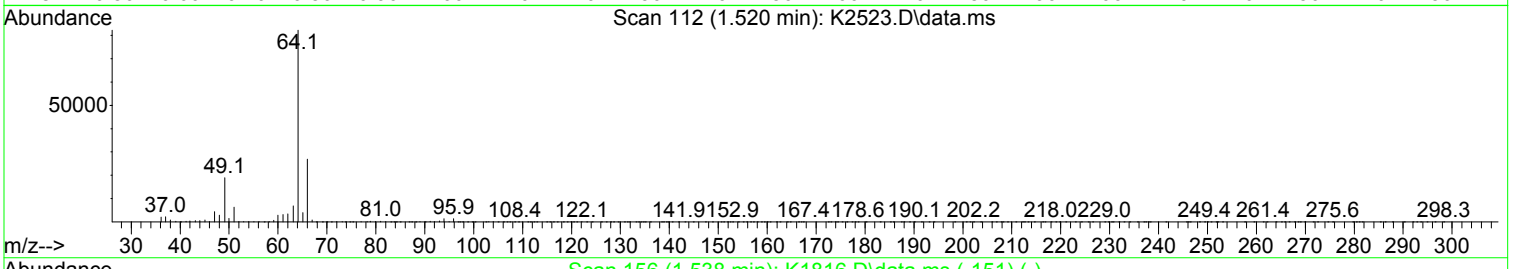
06/05/24

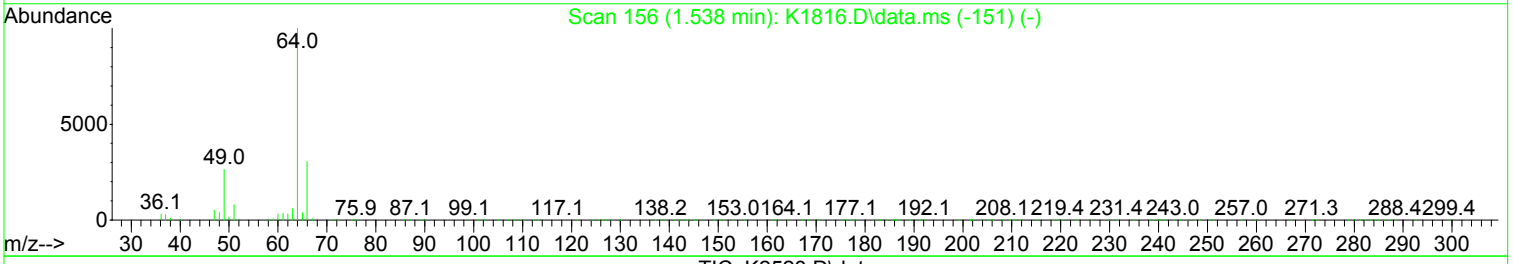
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2523.D
Acq On : 04 Jun 2024 05:47 pm
Operator : K.Ruest
Sample : 150ppb
Misc : 8260/624 ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 09:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2523.D\data.ms

(7) Chloroethane (P)

1.520min (-0.018) 79.14 ug/L

response 170563

Ion	Exp%	Act%
64.00	100.00	100.00
66.00	30.70	32.75
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

06/05/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2523.D
Acq On : 04 Jun 2024 05:47 pm
Operator : K.Ruest
Sample : 150ppb
Misc : 8260/624 ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 09:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.989	168	362387	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	6.172	114	539574	50.00	ug/L		0.00
71) d5-Chlorobenzene	9.573	117	496657	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	11.646	152	264317	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.830	113	717575	197.37	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 394.74%#				
48) surr1,1,2-dichloroetha...	5.416	65	875542	198.74	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 397.48%#				
65) SURR3,Toluene-d8	8.049	98	2417311	191.88	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 383.76%#				
70) SURR2,BFB	10.665	95	962631	203.27	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 406.54%#				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.087	51	462674	154.691	ug/L		97
3) Dichlorodifluoromethane	1.075	85	677060	157.765	ug/L		99
4) Chloromethane	1.197	50	536375	132.162	ug/L		100
5) Vinyl Chloride	1.264	62	558827	153.873	ug/L		98
6) Bromomethane	1.459	94	151151m	79.997	ug/L		
7) Chloroethane	1.520	64	180956m	83.967	ug/L		
8) Freon 21	1.666	67	767124	148.552	ug/L		100
9) Trichlorofluoromethane	1.703	101	742290	149.638	ug/L		99
10) Diethyl Ether	1.935	59	380891	148.992	ug/L		93
11) Freon 123a	1.935	67	422467	139.313	ug/L		94
12) Freon 123	1.983	83	571754	149.385	ug/L		95
13) Acrolein	2.026	56	254503	677.930	ug/L		100
14) 1,1-Diclethene	2.099	96	401241	144.957	ug/L		95
15) Freon 113	2.099	101	426442	148.760	ug/L		99
16) Acetone	2.154	43	148525	143.825	ug/L		96
17) 2-Propanol	2.325	45	656054	3165.728	ug/L		100
18) Iodomethane	2.221	142	557720	250.870	ug/L		91
19) Carbon Disulfide	2.270	76	1125127	146.781	ug/L		99
20) Acetonitrile	2.404	41	423528m	424.265	ug/L		
21) Allyl Chloride	2.404	76	200476	140.680	ug/L	#	67
22) Methyl Acetate	2.435	43	440956	150.320	ug/L		93
23) Methylene Chloride	2.514	84	417349	141.504	ug/L		91
24) TBA	2.691	59	1385168	3241.670	ug/L		97
25) Acrylonitrile	2.764	53	943567	741.604	ug/L		100
26) Methyl-t-Butyl Ether	2.800	73	1341590	145.638	ug/L		98
27) trans-1,2-Dichloroethene	2.782	96	430290	147.238	ug/L		93
28) 1,1-Diclethane	3.239	63	801150	147.396	ug/L		100
29) Vinyl Acetate	3.331	86	58867	159.335	ug/L	#	65
30) DIPE	3.361	45	1176428	151.624	ug/L		94
31) 2-Chloro-1,3-Butadiene	3.349	53	713058	154.939	ug/L		89
32) ETBE	3.849	59	1500158	151.912	ug/L		98
33) 2,2-Dichloropropane	4.007	77	713490	165.646	ug/L		99
34) cis-1,2-Dichloroethene	4.014	96	488341	157.756	ug/L		88
35) 2-Butanone	4.081	43	209472	154.952	ug/L		94
36) Propionitrile	4.166	54	403830	769.795	ug/L		98
37) Bromochloromethane	4.379	130	338309	162.786	ug/L		93
38) Methacrylonitrile	4.398	67	207439	149.253	ug/L		89
39) Tetrahydrofuran	4.477	42	132818	149.077	ug/L		88
40) Chloroform	4.550	83	794166	149.077	ug/L		99

1st 06/05/24
2nd 06/06/24

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2523.D
Acq On : 04 Jun 2024 05:47 pm
Operator : K.Ruest
Sample : 150ppb
Misc : 8260/624 ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 09:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 1,1,1-Trichloroethane	4.824	97	792632	156.179	ug/L		97
42) TAME	5.763	73	1305207	150.585	ug/L		93
44) Cyclohexane	4.910	41	344591	152.220	ug/L		95
46) Carbontetrachloride	5.123	117	735265	146.686	ug/L		99
47) 1,1-Dichloropropene	5.141	75	543873	142.174	ug/L		98
49) Benzene	5.495	78	1554476	149.380	ug/L		93
50) 1,2-Dichloroethane	5.550	62	720529	149.801	ug/L		98
51) Iso-Butyl Alcohol	5.593	43	424514	3340.897	ug/L		98
52) n-Heptane	6.025	43	477680	155.479	ug/L		91
53) 1-Butanol	6.611	56	856046	9326.392	ug/L		98
54) Trichloroethene	6.507	130	521236	153.801	ug/L		99
55) Methylcyclohexane	6.745	55	589922	154.304	ug/L		90
56) 1,2-Diclpropane	6.806	63	445637	150.527	ug/L		98
57) Dibromomethane	6.952	93	303781	149.103	ug/L		98
58) 1,4-Dioxane	7.037	88	145820	3156.254	ug/L		93
59) Methyl Methacrylate	7.062	69	330304	161.853	ug/L	#	83
60) Bromodichloromethane	7.196	83	648146	157.724	ug/L		98
61) 2-Nitropropane	7.501	41	310254	328.075	ug/L		98
62) 2-Chloroethylvinyl Ether	7.623	63	314592	157.254	ug/L		99
63) cis-1,3-Dichloropropene	7.757	75	680194	157.167	ug/L		98
64) 4-Methyl-2-pentanone	7.982	43	453909	160.826	ug/L		99
66) Toluene	8.123	91	1778834	148.456	ug/L		99
67) trans-1,3-Dichloropropene	8.409	75	662021	163.575	ug/L		99
68) Ethyl Methacrylate	8.568	69	631333	162.273	ug/L		92
69) 1,1,2-Trichloroethane	8.604	97	438833	152.930	ug/L		98
72) Tetrachloroethene	8.726	164	406350	149.149	ug/L		98
73) 2-Hexanone	8.915	43	331242	158.570	ug/L		98
74) 1,3-Dichloropropane	8.775	76	668912	143.489	ug/L		92
75) Dibromochloromethane	9.007	129	599771	159.574	ug/L		99
76) N-Butyl Acetate	9.074	43	702412	156.917	ug/L		97
77) 1,2-Dibromoethane	9.098	107	441732	148.847	ug/L		99
78) 3-Chlorobenzotrifluoride	9.634	180	730248	147.144	ug/L		97
79) Chlorobenzene	9.604	112	1254244	141.710	ug/L		98
80) 4-Chlorobenzotrifluoride	9.689	180	647683	144.533	ug/L		97
81) 1,1,1,2-Tetrachloroethane	9.695	131	538134	151.917	ug/L		95
82) Ethylbenzene	9.726	106	675365	145.430	ug/L		95
83) (m+p)Xylene	9.842	106	1616229	287.659	ug/L		97
84) o-Xylene	10.201	106	818965	146.570	ug/L		99
85) Styrene	10.220	104	1385343	150.563	ug/L		98
86) Bromoform	10.372	173	380561	172.184	ug/L		100
87) 2-Chlorobenzotrifluoride	10.457	180	709573	149.076	ug/L		99
88) Isopropylbenzene	10.543	105	2126016	146.796	ug/L		100
89) Cyclohexanone	10.610	55	1122579	3493.672	ug/L		100
90) trans-1,4-Dichloro-2-B...	10.860	53	180909	155.592	ug/L		89
92) 1,1,2,2-Tetrachloroethane	10.811	83	581793	139.255	ug/L		99
93) Bromobenzene	10.787	156	571897	141.923	ug/L		95
94) 1,2,3-Trichloropropane	10.842	110	211493	137.696	ug/L	#	88
95) n-Propylbenzene	10.903	91	2393819	141.584	ug/L		97
96) 2-Chlorotoluene	10.957	91	1473335	141.394	ug/L		98
97) 3-Chlorotoluene	11.018	91	1561003	138.644	ug/L		95
98) 4-Chlorotoluene	11.055	91	1683683	139.512	ug/L		99
99) 1,3,5-Trimethylbenzene	11.055	105	1854340	139.788	ug/L		98
100) tert-Butylbenzene	11.329	119	1634475	140.375	ug/L		98
101) 1,2,4-Trimethylbenzene	11.366	105	1914327	144.269	ug/L		99
102) 3,4-Dichlorobenzotrifl...	11.433	214	543695	145.802	ug/L		96
103) sec-Butylbenzene	11.512	105	2276553	142.012	ug/L		98

1st 06/05/24
2nd 06/06/24

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2523.D
Acq On : 04 Jun 2024 05:47 pm
Operator : K.Ruest
Sample : 150ppb
Misc : 8260/624 ICAL
ALS Vial : 9 Sample Multiplier: 1

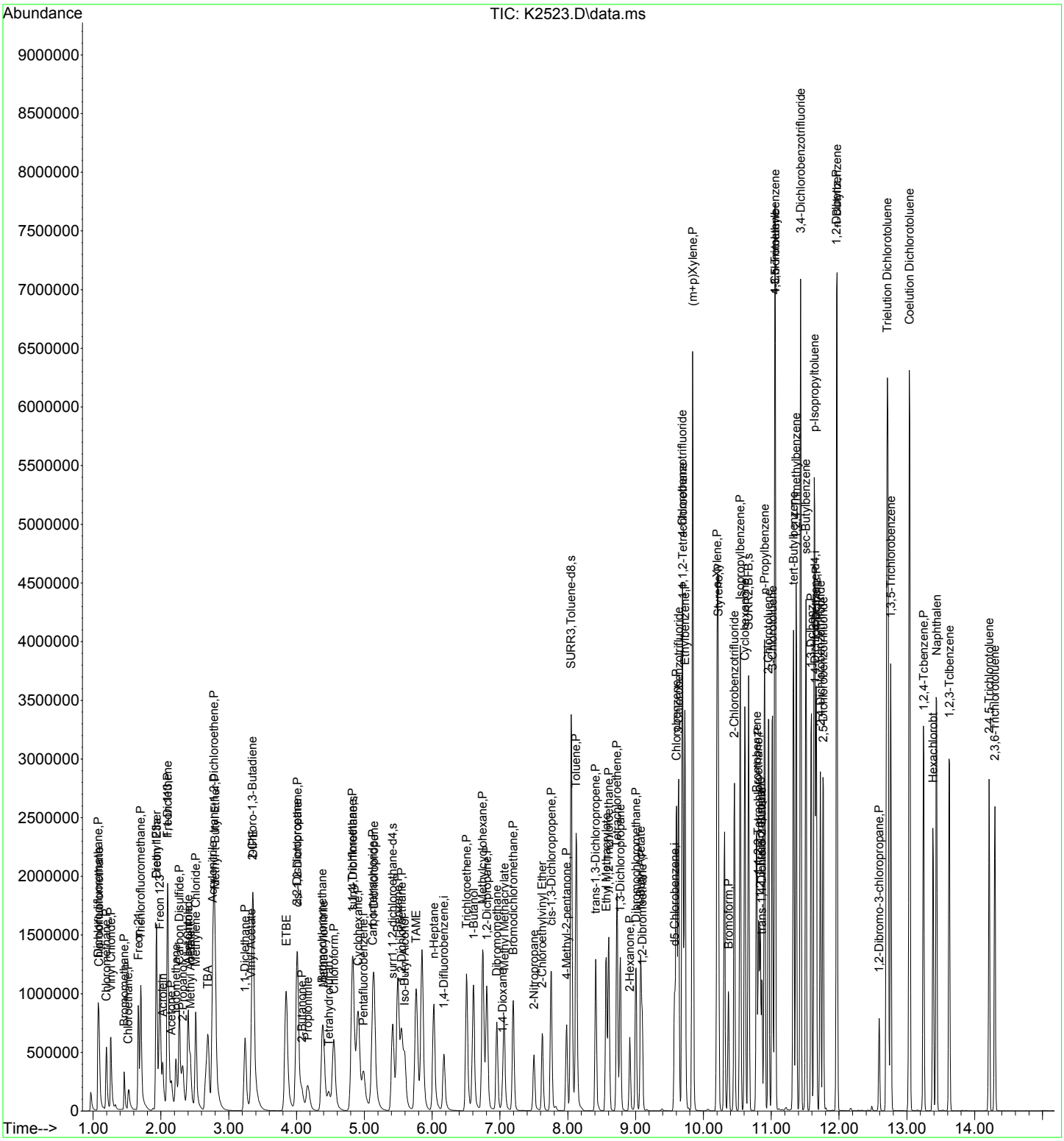
Quant Time: Jun 05 09:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) p-Isopropyltoluene	11.634	119	2056571	146.573	ug/L	98
105) 1,3-Dclbenz	11.591	146	1110338	142.438	ug/L	98
106) 1,4-Dclbenz	11.665	146	1108809	140.062	ug/L	99
107) 2,4-Dichlorobenzotrifl...	11.726	214	484879	148.417	ug/L	99
108) 2,5-Dichlorobenzotrifl...	11.768	214	544079	148.801	ug/L	98
109) n-Butylbenzene	11.969	91	1735215	147.466	ug/L	98
110) 1,2-Dclbenz	11.963	146	1081581	142.408	ug/L	99
111) 1,2-Dibromo-3-chloropr...	12.591	157	169210	161.710	ug/L	99
112) Trielution Dichlorotol...	12.713	125	3066618	443.438	ug/L	99
113) 1,3,5-Trichlorobenzene	12.762	180	797201	148.762	ug/L	99
114) Coelution Dichlorotoluene	13.036	125	2188934	298.464	ug/L	100
115) 1,2,4-Tcbenzene	13.250	180	769766	156.975	ug/L	97
116) Hexachlorobt	13.384	225	325326	151.278	ug/L	98
117) Naphthalen	13.439	128	2229539	156.799	ug/L	99
118) 1,2,3-Tclbenzene	13.628	180	722348	155.734	ug/L	99
119) 2,4,5-Trichlorotoluene	14.213	159	587724	163.783	ug/L	97
120) 2,3,6-Trichlorotoluene	14.298	159	495454	161.231	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2523.D
Acq On : 04 Jun 2024 05:47 pm
Operator : K.Ruest
Sample : 150ppb
Misc : 8260/624 ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 09:54:31 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration

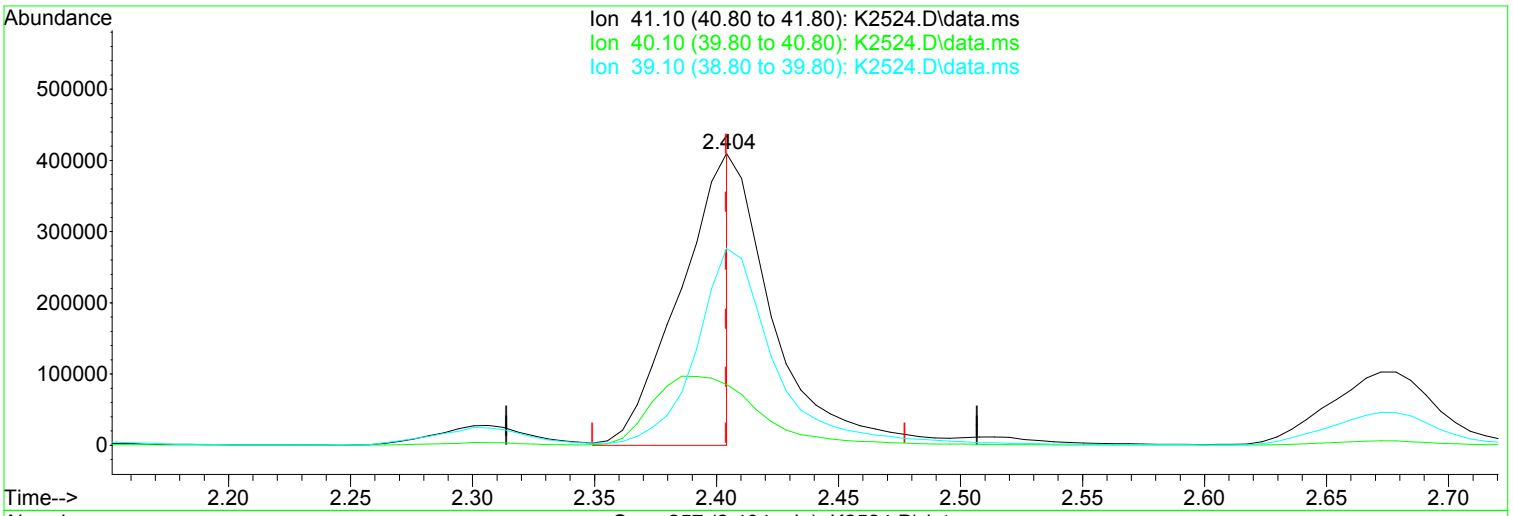


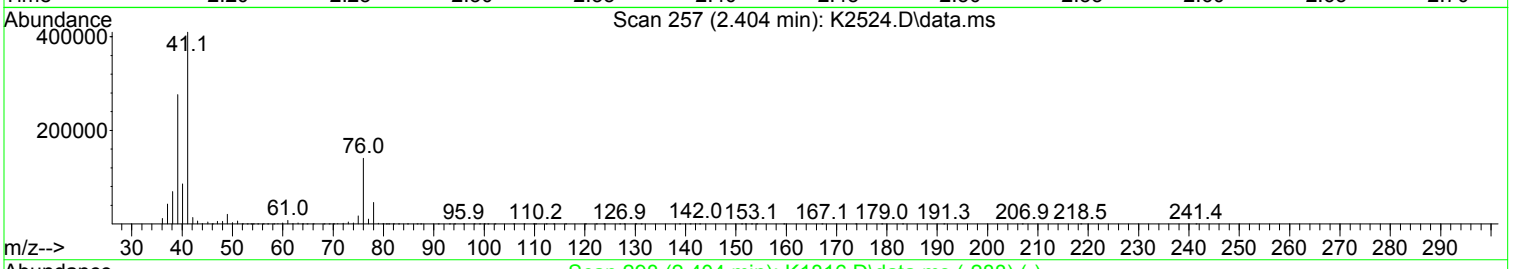
1st 06/05/24
2nd 06/06/24

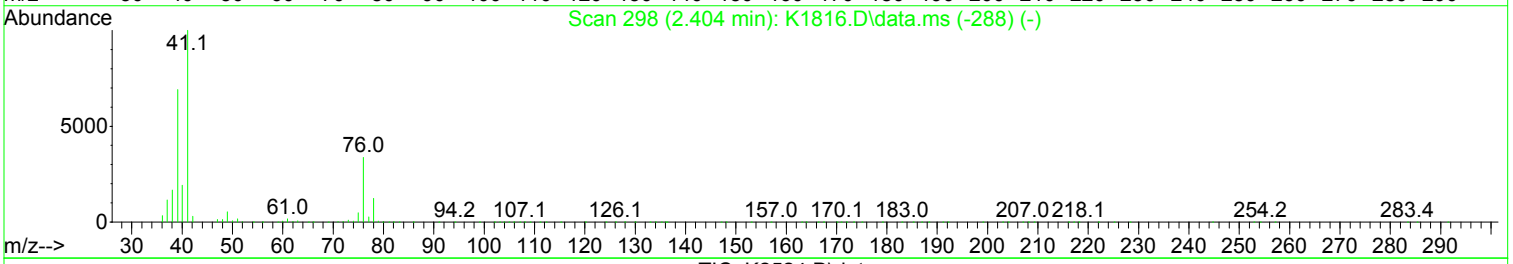
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2524.D
Acq On : 04 Jun 2024 06:10 pm
Operator : K.Ruest
Sample : 200ppb
Misc : 8260/624 ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 09:54:37 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2524.D\data.ms

(20) Acetonitrile

2.404min (+ 0.000) 591.01 ug/L m

response 603302

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	19.40	20.81
39.10	69.50	67.49
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

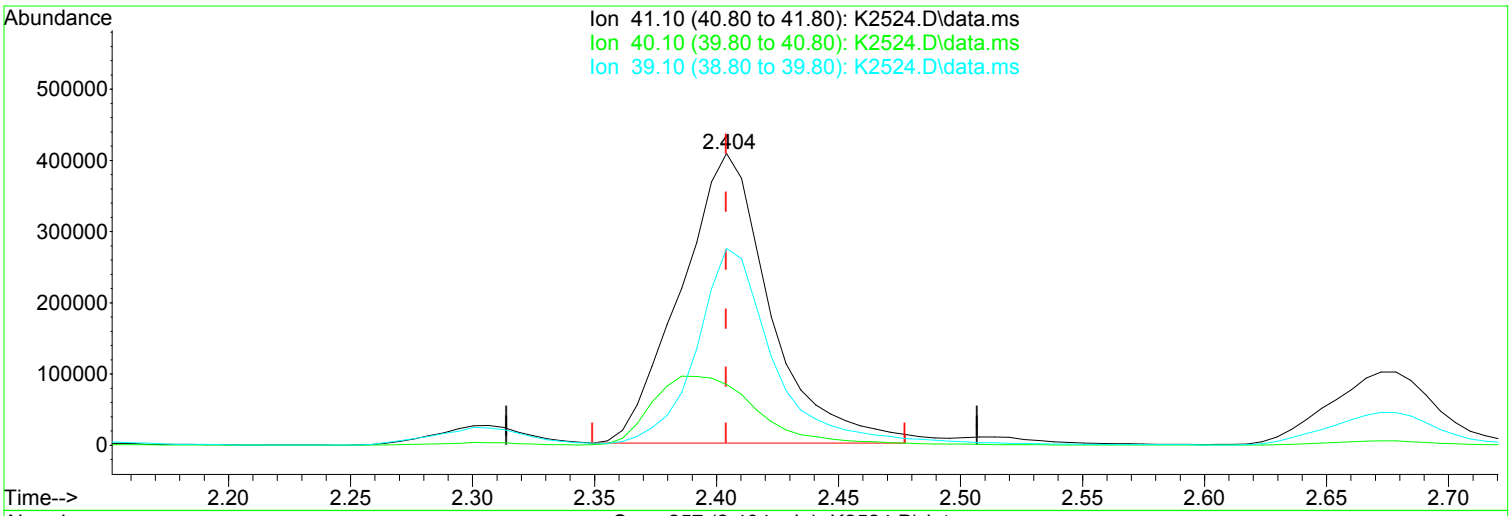
06/05/24

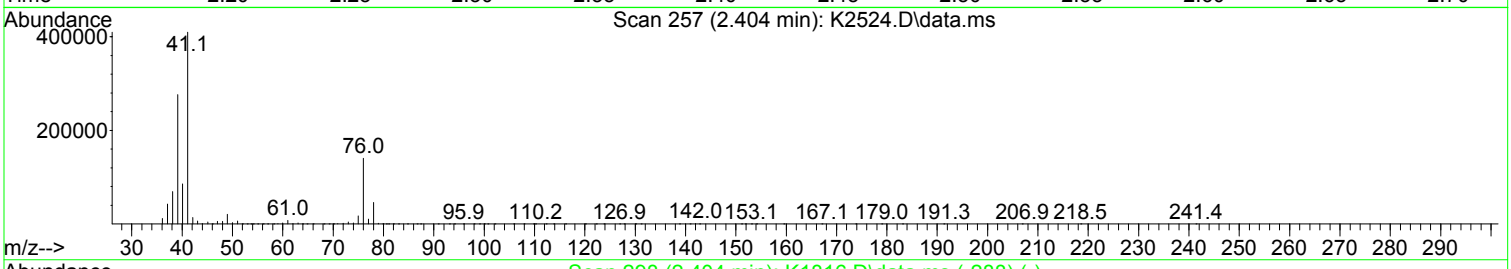
1st 06/05/24
2nd 06/06/24

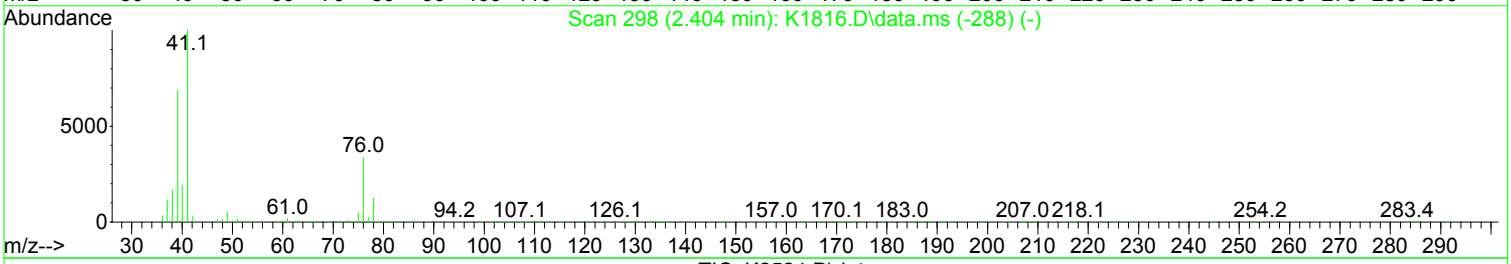
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2524.D
Acq On : 04 Jun 2024 06:10 pm
Operator : K.Ruest
Sample : 200ppb
Misc : 8260/624 ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 09:54:37 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2524.D\data.ms

(20) Acetonitrile

2.404min (+ 0.000) 1012.72 ug/L

response 1033781

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	19.40	20.81
39.10	69.50	67.49
0.00	0.00	0.00

Manual Integration:

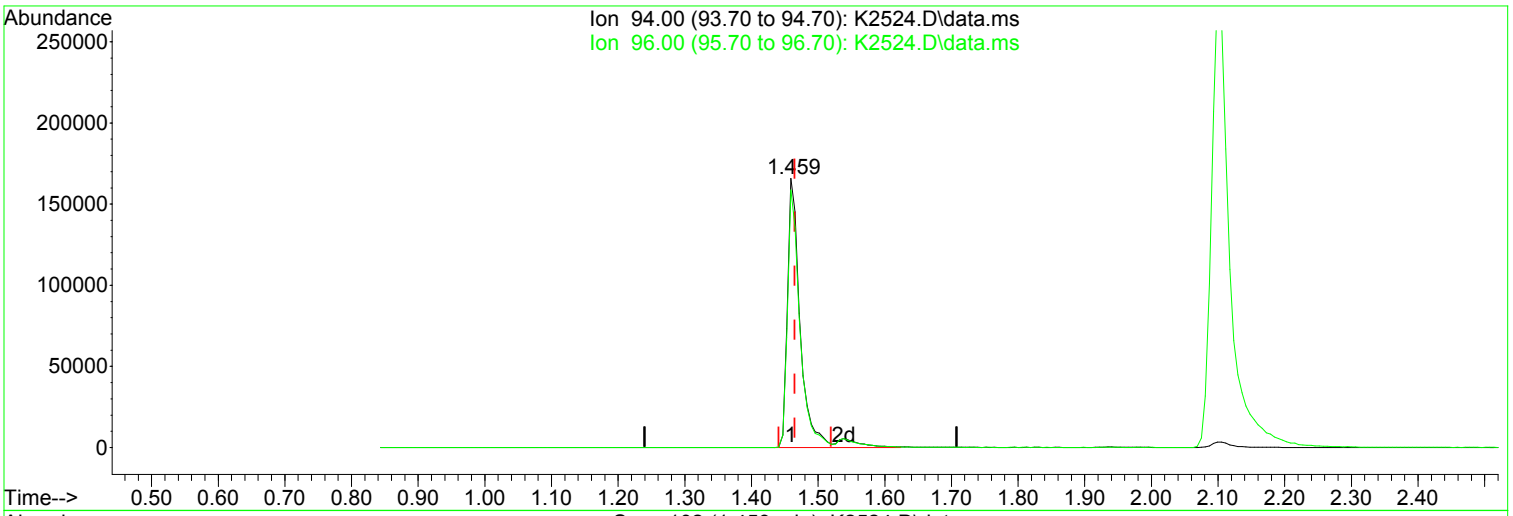
Before

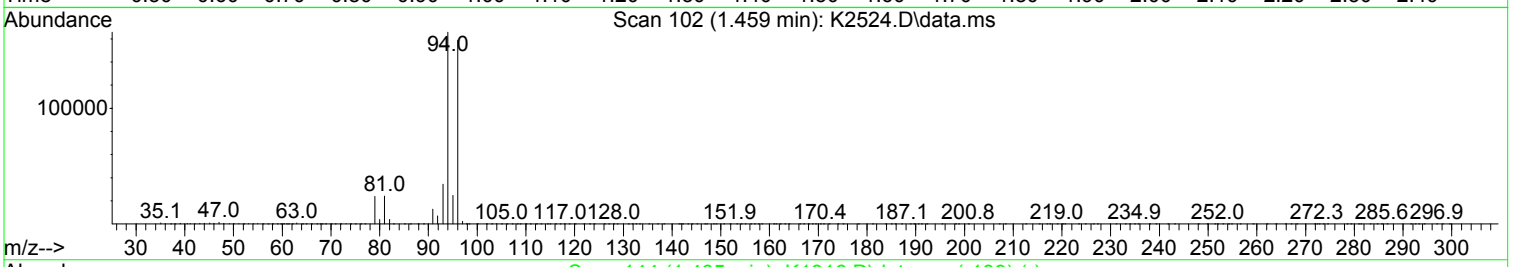
06/05/24

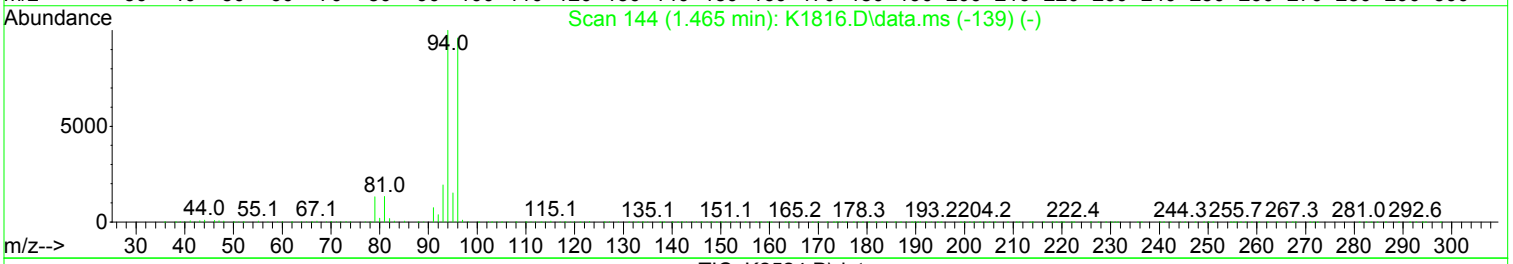
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2524.D
Acq On : 04 Jun 2024 06:10 pm
Operator : K.Ruest
Sample : 200ppb
Misc : 8260/624 ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 09:54:37 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2524.D\data.ms

(6) Bromomethane (P)

1.459min (-0.006) 118.51 ug/L m

response 228966

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	96.00	95.79
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

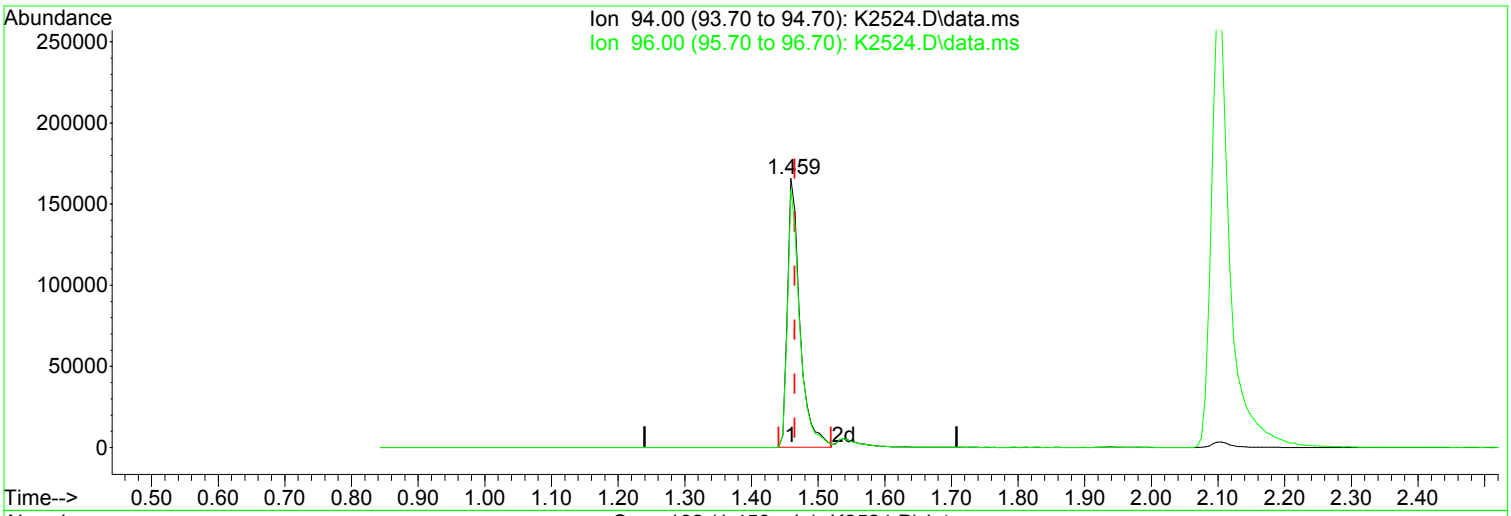
Poor integration.

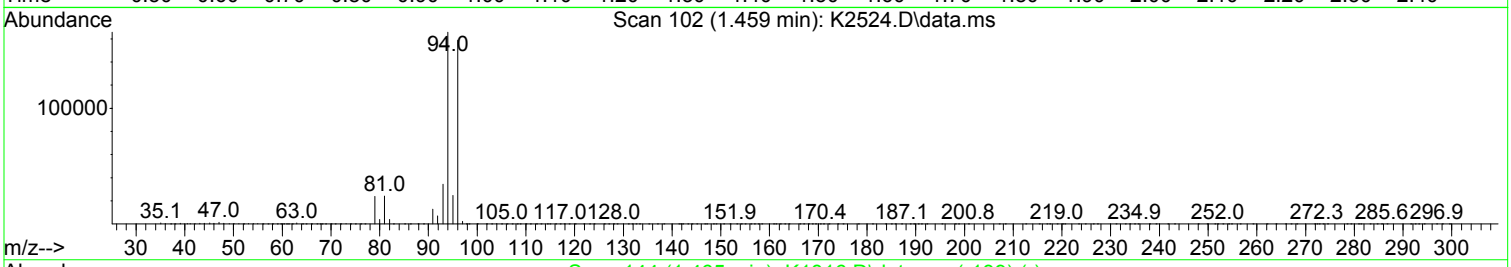
06/05/24

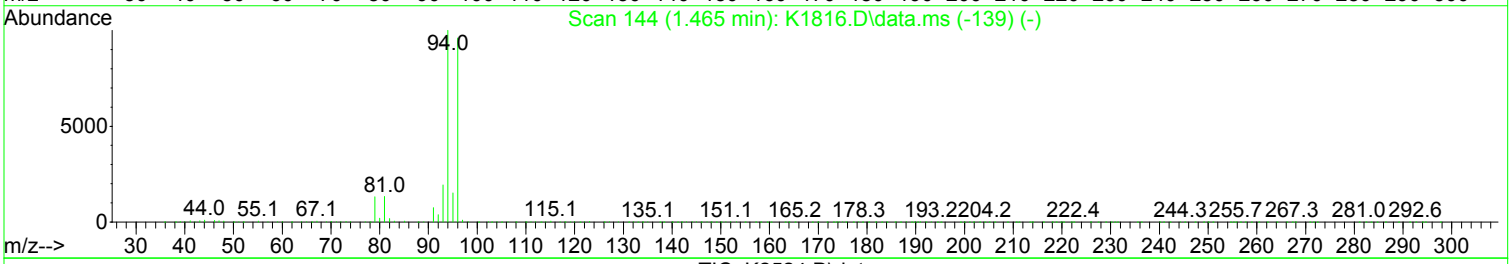
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\060424\
Data File : K2524.D
Acq On : 04 Jun 2024 06:10 pm
Operator : K.Ruest
Sample : 200ppb
Misc : 8260/624 ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 09:54:37 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W060424.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jun 05 09:46:25 2024
Response via : Initial Calibration







TIC: K2524.D\data.ms

(6) Bromomethane (P)

1.459min (-0.006) 110.78 ug/L

response 214031

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	96.00	95.79
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

06/05/24

Analysis: 8260+624 | Analyst: KPrust | pH strips: N/A | Tune Method: W060424

Date: 6/4/24 | Balance ID: N/A | ResCl strips: N/A | Run Method: ↓

Instr. 17 | 50 mL Class A used for dilution FV | Syringes: 20+10G+2331Z4 | LIMS Run#: ICAL

Data Path: j:\acqudata\msvoa(InstID)\(Date)

Pos.	Sample	Diln.	Diln. Prep./	RL	Vial	HS	Cl	pH	File#	OK?	Comments
1	BLK								K25D6		↓SM
2	TUNE								K25D7		(not eval.) ↓
1	BLK								K25D8	—	↑EMV+ new IS/SM
2	TUNE								K25D9	YT	(auto)
1	CCV								K25I0	YL	
1	LCS.FP								K25I1	YB	* ↓SM
1	BLK								K25I2		
2	MBLK.WWP								K25I3		- Recalibrate! (↓SM)
3	TUNE		Atomx						K25I4	YT	(auto)
1	IBLK	(5ppm)	(500ppm) (5mL) FV						K25I5	YB	
2	0.5 ppb	5mL	— — 50mL						K25I6	Y	
3	1.0	10mL	— —						K25I7	Y	
4	2.0	20mL	— —						K25I8	Y	
5	5.0	50mL	— 1mL						K25I9	Y	
6	20	—	2mL 2mL						K25Z0	Y	
7	50	—	5mL 5mL						K25Z1	Y	
8	100	—	10mL 10mL						K25Z2	Y	
9	150	—	15mL 20mL						K25Z3	Y	
10	200	—	20mL —						K25Z4	Y	
11	BLK								K25Z5	—	
12	↓								K25Z6	—	
13	↓								K25Z7	—	
14	ICV.50								K25Z8	(Y)	- freons shot wrong, opt
15	BLK								K25Z9	—	

200
KR 6/5/24

All samples = 5 mL + 5 uL combined IS/ 5 mL purged

Combined IS/Surr :

Surrogate 50 : 235583

Internal Std 50 : 235584

Reagents: MeOH: 233141

500 Primary OCC : 235592
Primary fr : 235448
Primary TG : 235593 | 10uL → 1.0mL MeOH = 5ppm
Primary HSL : 235449
Primary 236 : 234987
JT

200 Secondary fr : 235446 - 17.5uL
500 Secondary OCC : 234084
Secondary TG : 235448 | 5uL
Secondary HSL : 235443
Secondary 236 : 234915
JT

50mL = ICV (50)

Analysis: 8260D+624 | Analyst: K. Ruest | pH strips: 235592 | Tune Method: W0604.24

Date: 6/5/24 | Balance ID: N/A | ResCl strips: N/A | Run Method: ↓

Instr. 17 | 50 mL Class A used for dilution FV | Syringes: 231154 | LIMS Run#: 843050

Data Path: j:\acqudata\msvoa(InstID)\(Date)

Pos.	Sample	Diln.	Diln. Prep./	RL	Vial	HS	CI	pH	File#	OK?		Comments	
1	BLK								~~K23507~~	(Y)			K23530
2	↓		6342						K23561				K23531
3	TUNE		R2404577-01						K23562	YT	(auto) 10:17		K23532
1	CCV		(Y) 02						K23563	YC			K23533
1	ICV/LCS 50ppb		03						K23564	YC			K23534
1	BLK		—						K23565	(Y)	not to		K23535
2	MBLK ump		—						K23566	YB			K23536
3	MBLK FR		04						K23567	YB			K23537
4	R2404577-002	1.0	this	16656	2	N	N/A	12	K23568	Y			K23538
5	005	1.0			2			12	K23569	Y			K23539
6	010	1.0			2			12	K23570	Y			K23540
7	011	1.0			2			12	K23571	Y			K23541
8	012	1.0			2			12	K23572	Y			K23542
9	014	1.0			1			12	K23573	Y			K23543
10	004	2.5	20/50mls		2			12	K23574	(Y)	(DL) TCFM	F113, TCE	K23544
11	007	2.5			2			12	K23575	(Y)	F113		K23545
12	008	2.5			2			12	K23576	(Y)	↓		K23546
13	013	2.5			2			12	~~K23577~~	(Y)	TCE		K23547
14	BLK								K23548	—			
15	R2404575-003	1.0		16513	1	N	N/A	12	K23549	Y			
16	004	1.0			1			12	K23550	Y			
17	005	1.0			1			12	K23551	Y			
18	007	1.0			1			12	K23552	Y			
19	008	1.0			1			12	K23553	Y			
20	009	1.0			1			12	K23554	Y			
21	010	1.0			1			12	K23555	Y			
22	011	1.0			1			12	K23556	Y			
23	012	1.0			1			12	K23557	Y			
24	006	1.0			1			12	K23558	Y			
25	MS 006	1.0			2			12	K23559	YB			
26	↓ MSD 006	1.0			3	↓	↓	12	K23560	YB	21:29 ✓		
27	BLK								K23561	—			

All samples = 5 mL + 5 uL combined IS/ 5 mL purged

500 Primary OCC : 235592

Primary FR : 235446

Primary TO : 235573 | 5mL → 50mls = CCV

Primary HSL : 236119

Primary 236 : 236897 TT

200 Secondary FR : 235446 - 13.5mL

500 Secondary OCC : 236048

Secondary TO : 235548 | 5mL

Secondary HSL : 235547

Secondary 236 : 236915 TT

50mls = ICV+LCS / 4.3mL

- 43mL vial = MS/D ✓

Combined IS/Surr :

Surrogate 50 : 235583

Internal Std 50 : 235584

Reagents:

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2404674
Project: Olean OU3 9-Month **Calibration Date:** 6/4/2024

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2400107 **Signal ID:** 1
Instrument ID: R-MS-17

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC2400107-01	0.5ppb	I:\ACQUDATA\MSVOA17\Data\060424\K2516.D	06/04/2024 15:07
02	RC2400107-02	1.0ppb	I:\ACQUDATA\MSVOA17\Data\060424\K2517.D	06/04/2024 15:30
03	RC2400107-03	2.0ppb	I:\ACQUDATA\MSVOA17\Data\060424\K2518.D	06/04/2024 15:53
04	RC2400107-04	5.0ppb	I:\ACQUDATA\MSVOA17\Data\060424\K2519.D	06/04/2024 16:15
05	RC2400107-05	20ppb	I:\ACQUDATA\MSVOA17\Data\060424\K2520.D	06/04/2024 16:38
06	RC2400107-06	50ppb	I:\ACQUDATA\MSVOA17\Data\060424\K2521.D	06/04/2024 17:01
07	RC2400107-07	100ppb	I:\ACQUDATA\MSVOA17\Data\060424\K2522.D	06/04/2024 17:24
08	RC2400107-08	150ppb	I:\ACQUDATA\MSVOA17\Data\060424\K2523.D	06/04/2024 17:47
09	RC2400107-09	200ppb	I:\ACQUDATA\MSVOA17\Data\060424\K2524.D	06/04/2024 18:10

Analyte

4-Bromofluorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.4414	05	20.000	0.4199	06	50.000	0.4325	07	100.000	0.4543
08	200.000	0.446									

Dibromofluoromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.3444	05	20.000	0.3223	06	50.000	0.3446	07	100.000	0.3406
08	200.000	0.3325									

Tetrachloroethene (PCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2957	02	1.000	0.2735	03	2.000	0.2698	04	5.000	0.2985
05	20.000	0.2548	06	50.000	0.2539	07	100.000	0.2717	08	150.000	0.2727
09	200.000	0.2779									

Toluene-d8

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	1.227	05	20.000	1.133	06	50.000	1.191	07	100.000	1.166
08	200.000	1.12									

Trichloroethene (TCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3084	02	1.000	0.3063	03	2.000	0.3059	04	5.000	0.338
05	20.000	0.3027	06	50.000	0.3034	07	100.000	0.322	08	150.000	0.322
09	200.000	0.3178									

Vinyl Chloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5119	02	1.000	0.4817	03	2.000	0.4767	04	5.000	0.5017
05	20.000	0.5011	06	50.000	0.5028	07	100.000	0.5174	08	150.000	0.514
09	200.000	0.5024									

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2404674
Project: Olean OU3 9-Month **Calibration Date:** 6/4/2024

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2400107 **Signal ID:** 1
Instrument ID: R-MS-17

Analyte

cis-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4962	02	1.000	0.4683	03	2.000	0.4601	04	5.000	0.4705
05	20.000	0.4486	06	50.000	0.445	07	100.000	0.451	08	150.000	0.4492
09	200.000	0.4414									

trans-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4291	02	1.000	0.4095	03	2.000	0.4049	04	5.000	0.412
05	20.000	0.3999	06	50.000	0.3936	07	100.000	0.3965	08	150.000	0.3958
09	200.000	0.3877									

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2404674
Project: Olean OU3 9-Month **Calibration Date:** 6/4/2024

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2400107 **Signal ID:** 1
Instrument ID: R-MS-17

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
4-Bromofluorobenzene	SURR	Average RF	% RSD	3.0	≤20	0.4388	
Dibromofluoromethane	SURR	Average RF	% RSD	2.8	≤20	0.3369	
Tetrachloroethene (PCE)	TRG	Average RF	% RSD	5.6	≤20	0.2743	0.200
Toluene-d8	SURR	Average RF	% RSD	3.7	≤20	1.167	
Trichloroethene (TCE)	TRG	Average RF	% RSD	3.8	≤20	0.314	0.200
Vinyl Chloride	TRG	Average RF	% RSD	2.8	≤20	0.5011	0.100
cis-1,2-Dichloroethene	TRG	Average RF	% RSD	3.8	≤20	0.4589	0.100
trans-1,2-Dichloroethene	TRG	Average RF	% RSD	3.1	≤20	0.4032	0.100

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2404674
Project: Olean OU3 9-Month **Calibration Date:** 6/4/2024

Initial Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2400107 **Signal ID:** 1
Instrument ID: R-MS-17

#	Lab Code	Sample Name	File Location	Acquisition Date
10	RC2400107-10	ICV/LCS-50	I:\ACQUDATA\MSVOA17\Data\060524\K2534.D	06/05/2024 11:22

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Tetrachloroethene (PCE)	50.0	50.5	2.743E-1	2.771E-1	1.04	±30	Average RF
Trichloroethene (TCE)	50.0	51.1	3.14E-1	3.212E-1	2.28	±30	Average RF
Vinyl Chloride	50.0	47.8	5.011E-1	4.789E-1	-4.428	±30	Average RF
cis-1,2-Dichloroethene	50.0	50.9	4.589E-1	4.673E-1	1.83	±30	Average RF
trans-1,2-Dichloroethene	50.0	49.6	4.032E-1	4.003E-1	-0.733	±30	Average RF

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	53.0	4.388E-1	4.649E-1	5.94	±30	Average RF
Dibromofluoromethane	50.0	51.6	3.369E-1	3.473E-1	3.10	±30	Average RF
Toluene-d8	50.0	51.5	1.167E0	1.202E0	2.94	±30	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Analyzed:**	06/09/24 10:28

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	**Calibration Date:**	6/4/2024
File ID:	I:\ACQUDATA\MSVOA17\Data\060924\K2713.D\	**Calibration ID:**	RC2400107
Signal ID:	1	**Analysis Lot:**	843481
		Units:	ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Tetrachloroethene (PCE)	50.0	46.3	0.2743	0.2541	-7.4	NA	±20	Average RF
Trichloroethene (TCE)	50.0	48.4	0.314	0.3042	-3.1	NA	±20	Average RF
Vinyl Chloride	50.0	51.7	0.5011	0.5176	3.3	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	50.4	0.4589	0.4627	0.8	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	51.0	0.4032	0.4114	2.0	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	53.2	0.4388	0.4672	6.5	NA	±20	Average RF
Dibromofluoromethane	50.0	51.0	0.3369	0.3436	2.0	NA	±20	Average RF
Toluene-d8	50.0	50.9	1.1674	1.1894	1.9	NA	±20	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Analyzed:**	06/10/24 11:17

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	**Calibration Date:**	6/4/2024
File ID:	I:\ACQUDATA\MSVOA17\Data\061024\K2744.D\	**Calibration ID:**	RC2400107
Signal ID:	1	**Analysis Lot:**	843530
		Units:	ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Tetrachloroethene (PCE)	50.0	47.7	0.2743	0.2617	-4.6	NA	±20	Average RF
Trichloroethene (TCE)	50.0	49.8	0.314	0.3129	-0.4	NA	±20	Average RF
Vinyl Chloride	50.0	53.0	0.5011	0.5312	6.0	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	51.1	0.4589	0.4686	2.1	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	52.5	0.4032	0.4233	5.0	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	51.8	0.4388	0.4548	3.6	NA	±20	Average RF
Dibromofluoromethane	50.0	49.4	0.3369	0.333	-1.1	NA	±20	Average RF
Toluene-d8	50.0	49.6	1.1674	1.1571	-0.9	NA	±20	Average RF

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2404674
Project: Olean OU3 9-Month/300-082.0043

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: **Analysis Lot:**843481
Instrument ID:R-MS-17

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\MSVOA17\Data\060924\K2712.D\	ZZZZZZZ	ZZZZZZZ	6/9/2024	09:55:00	
I:\ACQUDATA\MSVOA17\Data\060924\K2713.D\	Continuing Calibration Verification	RQ2406500-02	6/9/2024	10:28:00	
I:\ACQUDATA\MSVOA17\Data\060924\K2714.D\	Lab Control Sample	RQ2406500-03	6/9/2024	11:00:00	
I:\ACQUDATA\MSVOA17\Data\060924\K2717.D\	Method Blank	RQ2406500-04	6/9/2024	12:18:00	
I:\ACQUDATA\MSVOA17\Data\060924\K2718.D\	ZZZZZZZ	ZZZZZZZ	6/9/2024	12:41:00	
I:\ACQUDATA\MSVOA17\Data\060924\K2719.D\	ZZZZZZZ	ZZZZZZZ	6/9/2024	13:04:00	
I:\ACQUDATA\MSVOA17\Data\060924\K2720.D\	ZZZZZZZ	ZZZZZZZ	6/9/2024	13:27:00	
I:\ACQUDATA\MSVOA17\Data\060924\K2721.D\	ZZZZZZZ	ZZZZZZZ	6/9/2024	13:50:00	
I:\ACQUDATA\MSVOA17\Data\060924\K2722.D\	ZZZZZZZ	ZZZZZZZ	6/9/2024	14:13:00	
I:\ACQUDATA\MSVOA17\Data\060924\K2723.D\	ZZZZZZZ	ZZZZZZZ	6/9/2024	14:36:00	
I:\ACQUDATA\MSVOA17\Data\060924\K2724.D\	ZZZZZZZ	ZZZZZZZ	6/9/2024	14:59:00	
I:\ACQUDATA\MSVOA17\Data\060924\K2725.D\	ZZZZZZZ	ZZZZZZZ	6/9/2024	15:22:00	
I:\ACQUDATA\MSVOA17\Data\060924\K2726.D\	ZZZZZZZ	ZZZZZZZ	6/9/2024	15:45:00	
I:\ACQUDATA\MSVOA17\Data\060924\K2727.D\	OLN-TB001-T008	R2404674-003	6/9/2024	16:08:00	
I:\ACQUDATA\MSVOA17\Data\060924\K2728.D\	OLN-FB001-B008	R2404674-002	6/9/2024	16:31:00	
I:\ACQUDATA\MSVOA17\Data\060924\K2729.D\	OLN-RU009-F008	R2404674-001	6/9/2024	16:54:00	
I:\ACQUDATA\MSVOA17\Data\060924\K2730.D\	OLN-RU015-F008	R2404674-005	6/9/2024	17:17:00	
I:\ACQUDATA\MSVOA17\Data\060924\K2731.D\	OLN-RU027A-F008	R2404674-009	6/9/2024	17:40:00	
I:\ACQUDATA\MSVOA17\Data\060924\K2732.D\	OLN-RU028-F008	R2404674-010	6/9/2024	18:03:00	
I:\ACQUDATA\MSVOA17\Data\060924\K2733.D\	OLN-UA002-F008	R2404674-011	6/9/2024	18:26:00	
I:\ACQUDATA\MSVOA17\Data\060924\K2734.D\	OLN-RU021-F008	R2404674-008	6/9/2024	18:49:00	
I:\ACQUDATA\MSVOA17\Data\060924\K2735.D\	OLN-RU010-F008	R2404674-004	6/9/2024	19:12:00	
I:\ACQUDATA\MSVOA17\Data\060924\K2736.D\	OLN-RU019-F008	R2404674-006	6/9/2024	19:35:00	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2404674
Project: Olean OU3 9-Month/300-082.0043

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: **Analysis Lot:**843481
Instrument ID:R-MS-17

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\MSVOA17\Data\060924\K2737.D\	OLN-RU020-F008	R2404674-007	6/9/2024	19:58:00	
I:\ACQUDATA\MSVOA17\Data\060924\K2738.D\	OLN-UA002-F008 MS	RQ2406500-05	6/9/2024	20:21:00	
I:\ACQUDATA\MSVOA17\Data\060924\K2739.D\	OLN-UA002-F008 DMS	RQ2406500-06	6/9/2024	20:44:00	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2404674
Project: Olean OU3 9-Month/300-082.0043

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: **Analysis Lot:**843530
Instrument ID:R-MS-17

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\MSVOA17\Data\061024\K2743.D\	ZZZZZZZ	ZZZZZZZ	6/10/2024	10:36:00	
I:\ACQUDATA\MSVOA17\Data\061024\K2744.D\	Continuing Calibration Verification	RQ2406531-02	6/10/2024	11:17:00	
I:\ACQUDATA\MSVOA17\Data\061024\K2745.D\	Lab Control Sample	RQ2406531-03	6/10/2024	11:49:00	
I:\ACQUDATA\MSVOA17\Data\061024\K2748.D\	Method Blank	RQ2406531-04	6/10/2024	13:07:00	
I:\ACQUDATA\MSVOA17\Data\061024\K2749.D\	OLN-FB002-B008	R2404674-014	6/10/2024	13:30:00	
I:\ACQUDATA\MSVOA17\Data\061024\K2750.D\	OLN-TB002-T008	R2404674-015	6/10/2024	13:53:00	
I:\ACQUDATA\MSVOA17\Data\061024\K2751.D\	OLN-EB001-E008	R2404674-016	6/10/2024	14:16:00	
I:\ACQUDATA\MSVOA17\Data\061024\K2752.D\	OLN-WW18M-F008	R2404674-012	6/10/2024	14:39:00	
I:\ACQUDATA\MSVOA17\Data\061024\K2755.D\	ZZZZZZZ	ZZZZZZZ	6/10/2024	15:48:00	
I:\ACQUDATA\MSVOA17\Data\061024\K2756.D\	ZZZZZZZ	ZZZZZZZ	6/10/2024	16:11:00	
I:\ACQUDATA\MSVOA17\Data\061024\K2757.D\	ZZZZZZZ	ZZZZZZZ	6/10/2024	16:34:00	
I:\ACQUDATA\MSVOA17\Data\061024\K2758.D\	ZZZZZZZ	ZZZZZZZ	6/10/2024	16:57:00	
I:\ACQUDATA\MSVOA17\Data\061024\K2759.D\	ZZZZZZZ	ZZZZZZZ	6/10/2024	17:20:00	
I:\ACQUDATA\MSVOA17\Data\061024\K2762.D\	ZZZZZZZ	ZZZZZZZ	6/10/2024	18:29:00	
I:\ACQUDATA\MSVOA17\Data\061024\K2763.D\	ZZZZZZZ	ZZZZZZZ	6/10/2024	18:52:00	
I:\ACQUDATA\MSVOA17\Data\061024\K2764.D\	ZZZZZZZ	ZZZZZZZ	6/10/2024	19:15:00	
I:\ACQUDATA\MSVOA17\Data\061024\K2765.D\	ZZZZZZZ	ZZZZZZZ	6/10/2024	19:38:00	
I:\ACQUDATA\MSVOA17\Data\061024\K2766.D\	ZZZZZZZ	ZZZZZZZ	6/10/2024	20:01:00	
I:\ACQUDATA\MSVOA17\Data\061024\K2767.D\	ZZZZZZZ	ZZZZZZZ	6/10/2024	20:24:00	
I:\ACQUDATA\MSVOA17\Data\061024\K2769.D\	OLN-FD001-D008	R2404674-013	6/10/2024	21:10:00	
I:\ACQUDATA\MSVOA17\Data\061024\K2770.D\	ZZZZZZZ	ZZZZZZZ	6/10/2024	21:33:00	
I:\ACQUDATA\MSVOA17\Data\061024\K2771.D\	ZZZZZZZ	ZZZZZZZ	6/10/2024	21:56:00	
I:\ACQUDATA\MSVOA17\Data\061024\K2772.D\	ZZZZZZZ	ZZZZZZZ	6/10/2024	22:19:00	

Analysis: 5260 Waters | Analyst: JC Duvest | pH strips: 225022 | Tune Method: W060424

Date: 6/9/24 | Balance ID: N/A | ResCl strips: N/A | Run Method: ↓

Instr. 17 | 50 mL Class A used for dilution FV | Syringes: 231124 | LIMS Run#: 5433481

Data Path: j:\acqudata\msvoa(InstID)\(Date)

Pos.	Sample	Diln.	Diln. Prep./	RL	Vial	HS	CI	pH	File#	OK?	Comments
1	BLK								KJ710		
2	↓								KJ711		
3	TUNE		RQ24060500.01						KJ712	YT	(auto) 9:55
1	CCV		02						KJ713	YK	
1	LCS.FP		03						KJ714	YQ	
1	BLK		—						KJ715	@	
2	mBLK.LMP		—						KJ716	YB	
3	mBLK.FP		04						KJ717	YB	
4	R24061631.004	5D	1/50mls	266985	2	N	N/A	12	KJ718	Y	DL - chloroform
5	R24061632.002	1.0		66813	1			12	KJ719	Y	
6	↓ 001	1.0		↓	1			12	KJ720	Y	
7	R24061635.001	1.0		66813	1			12	KJ721	Y	
8	↓ 002	1.0		↓	1			12	KJ722	Y	
9	R24061637.001	1.0		66673	1			12	KJ723	Y	
10	002	10	5/50mls		1			12	KJ724	Y	Bunny
11	003	10	↓		1			12	KJ725	Y	↓
12	↓ 004	10		↓	1			12	KJ726	Y	
13	R24061674.003	1.0		25499	1			12	KJ727	Y	
14	002	1.0			1			12	KJ728	Y	
15	001	1.0			1			12	KJ729	Y	
16	005	1.0			1			12	KJ730	Y	
17	009	1.0			1			12	KJ731	Y	
18	010	1.0			1			12	KJ732	Y	
19	011	1.0			1			12	KJ733	Y	
20	008	1.0			1			12	KJ734	Y	
21	004	2.0	25/50mls		1			12	KJ735	Y	
22	006	2.5	20/50mls		1			12	KJ736	Y	
23	007	2.5	↓		1			12	KJ737	Y	
24	MS 011	1.0			2			12	KJ738	YQ	
25	↓ MSD 011	1.0		↓	3	↓	↓	12	KJ739	YQ	20:44 ✓
26	BLK			—	—	—	—	—	KJ740	—	

All samples = 5 mL + 5 uL combined IS/ 5 mL purged

Combined IS/Surr :

Surrogate 5D : 2355584

Internal Std 5D : 2355583

Reagents:

5D Primary OLC : 235592
Primary Fr : 235548
Primary T6 : 235543
Primary 1,4-x : 235549
Primary 2,6 : 2354547
TT

5mL → 5Dmls = CCV

2D 5D Secondary Fr : 235546 15uL
Secondary OLC : 235640
Secondary T6 : 235548 2mL
Secondary 1,4-x : 235547
Secondary 2,6 : 2354545
TT

5Dmls = LCS −413uL

413uL vial = MS/D

Analysis: 8260 Waters | Analyst: KJ Quest | pH strips: 258082 | Tune Method: WA060424

Date: 6/10/24 | Balance ID: N/A | ResCl strips: N/A | Run Method: L

Instr. 17 | 50 mL Class A used for dilution FV | Syringes: 231174 | LIMS Run#: 543530

Data Path: j:\acqudata\msvoa(InstID)\(Date)

Pos.	Sample	Diln.	Diln. Prep./	RL	Vial	HS	Cl	pH	File#	OK?	Comments
1	BLK								KJ741		
2	IVNE								KJ742	(N)	176 L not
1	↓		R2406531.01						KJ743	MT	(auto) 10:36
1	CCV		02						KJ744	YC	
1	LCS.FP		03						KJ745	YC	
1	BLK		—						KJ746	(N)	not 1.0
2	MBLK.UMP		—						KJ747	YB	
3	MBLK.FP		04						KJ748	YB	
4	R2406674.014	1.0		25/59	1	N	N/A	LL	KJ749	Y	
5	015	1.0			1			LL	KJ750	Y	
6	016	1.0			1			LL	KJ751	Y	
7	012	1.0			1			LL	KJ752	Y	
8	013	2.5	20/50mls		1			LL	KJ753	(N)	not 1.0
9	BLK	—							KJ754	—	
10	R2406591.006	1.0	(his)	196358	1	N	N/A	LL	KJ755	Y	
11	001	1.0			1			LL	~~KJ756~~	Y	KJ756
12	004	1.0			1			LL	KJ757	Y	
13	002	1.0			1			LL	KJ758	Y	
14	003	1.0			1			LL	KJ759	Y	
15	R2406643.002	2.0	25/50mls		1			LL	KJ760	(N)	not 1.0
16	BLK	—							KJ761	—	
17	R2406643.004	1.0	(his)	196358	1	N	N/A	LL	KJ762	Y	
18	001	1.0			1			LL	KJ763	Y	
19	R2406694.006	1.0			1			LL	KJ764	Y	
20	004	1.0			1			LL	KJ765	Y	
21	003	1.0			1			LL	KJ766	Y	
22	002	1.0			1			LL	KJ767	Y	
23	001	2.0			1			LL	KJ768	(N)	not 1.0
24	R2406674.013	1.0		23/99	2			LL	KJ769	Y	~~* Ace bit - lost tank~~ NT. OK YB
25	R2406807.001	20	2.5/50mls	145158	1			LL	KJ770	Y	
26	MS 001	20	↓		1			LL	KJ771	YB	RunQC
27	MSD 001	20	↓		1			LL	KJ772	YB	↓ 22:19 ✓

All samples = 5 mL + 5 uL combined IS/ 5 mL purged

Combined IS/Surr :

Surrogate SD : 235584

Internal Std SD : 235583

Reagents:

500 Primary DCE : 235592
Primary fr : 235548
Primary TCE : 235543
Primary HSL : 235549
Primary 336 : 234897
TT
5 mL → 50 mls = CCV

200 Secondary fr : 235546 . 5mL
500 Secondary DCE : 235540
Secondary HSL : 235547 | 2mL
Secondary TCE : 235548
Secondary 336 : 234915
TT
50 mls = LCS / 49.3mL
- 10.8mL

43mL vial = MS/D

Volatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/28/24 16:06
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU009-F008	**Units:**	ug/L
Lab Code:	R2404674-001	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	06/07/24 12:51	
Ethene	5.0 U	5.0	0.35	1	06/07/24 12:51	
Methane	5.2 U	5.2	3.0	1	06/07/24 12:51	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/28/24 16:53
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-FB001-B008	**Units:**	ug/L
Lab Code:	R2404674-002	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	06/07/24 13:05	
Ethene	5.0 U	5.0	0.35	1	06/07/24 13:05	
Methane	5.2 U	5.2	3.0	1	06/07/24 13:05	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 17:50
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU010-F008	**Units:**	ug/L
Lab Code:	R2404674-004	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	06/07/24 13:21	
Ethene	5.0 U	5.0	0.35	1	06/07/24 13:21	
Methane	**59**	5.2	3.0	1	06/07/24 13:21	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 08:42
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU015-F008	**Units:**	ug/L
Lab Code:	R2404674-005	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	06/07/24 13:32	
Ethene	5.0 U	5.0	0.35	1	06/07/24 13:32	
Methane	**7.7**	5.2	3.0	1	06/07/24 13:32	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 17:20
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU019-F008	**Units:**	ug/L
Lab Code:	R2404674-006	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	100 U	100	17	20	06/07/24 14:00	
Ethene	100 U	100	7.0	20	06/07/24 14:00	
Methane	**3600**	100	60	20	06/07/24 14:00	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 14:55
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU020-F008	**Units:**	ug/L
Lab Code:	R2404674-007	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	52 U	52	8.5	10	06/07/24 14:12	
Ethene	50 U	50	3.5	10	06/07/24 14:12	
Methane	**4800**	52	30	10	06/07/24 14:12	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 16:11
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU021-F008	**Units:**	ug/L
Lab Code:	R2404674-008	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	260 U	260	43	50	06/07/24 14:23	
Ethene	250 U	250	18	50	06/07/24 14:23	
Methane	**16000**	260	150	50	06/07/24 14:23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 14:21
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU027A-F008	**Units:**	ug/L
Lab Code:	R2404674-009	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	100 U	100	17	20	06/07/24 14:35	
Ethene	100 U	100	7.0	20	06/07/24 14:35	
Methane	**4200**	100	60	20	06/07/24 14:35	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 12:35
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU028-F008	**Units:**	ug/L
Lab Code:	R2404674-010	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	06/07/24 14:59	
Ethene	5.0 U	5.0	0.35	1	06/07/24 14:59	
Methane	5.2 U	5.2	3.0	1	06/07/24 14:59	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 10:10
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-UA002-F008	**Units:**	ug/L
Lab Code:	R2404674-011	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	06/07/24 15:10	
Ethene	5.0 U	5.0	0.35	1	06/07/24 15:10	
Methane	**610 E**	5.2	3.0	1	06/07/24 15:10	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 10:10
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-UA002-F008	**Units:**	ug/L
Lab Code:	R2404674-011	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	10 U	10	1.7	2	06/07/24 15:22	
Ethene	10 U	10	0.70	2	06/07/24 15:22	
Methane	**890 D**	10	6.0	2	06/07/24 15:22	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 07:00
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-FD001-D008	**Units:**	ug/L
Lab Code:	R2404674-013	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Ethane	520	U	520	85	100	06/07/24 17:09	
Ethene	500	U	500	35	100	06/07/24 17:09	
Methane	**20000**	**D**	520	300	100	06/07/24 17:09	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 07:00
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-FD001-D008	**Units:**	ug/L
Lab Code:	R2404674-013	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	06/07/24 16:46	
Ethene	5.0 U	5.0	0.35	1	06/07/24 16:46	
Methane	**11000 E**	5.2	3.0	1	06/07/24 16:46	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 17:25
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-FB002-B008	**Units:**	ug/L
Lab Code:	R2404674-014	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	06/07/24 16:22	
Ethene	5.0 U	5.0	0.35	1	06/07/24 16:22	
Methane	5.2 U	5.2	3.0	1	06/07/24 16:22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/30/24 16:30
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-EB001-E008	**Units:**	ug/L
Lab Code:	R2404674-016	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	06/07/24 16:33	
Ethene	5.0 U	5.0	0.35	1	06/07/24 16:33	
Methane	5.2 U	5.2	3.0	1	06/07/24 16:33	

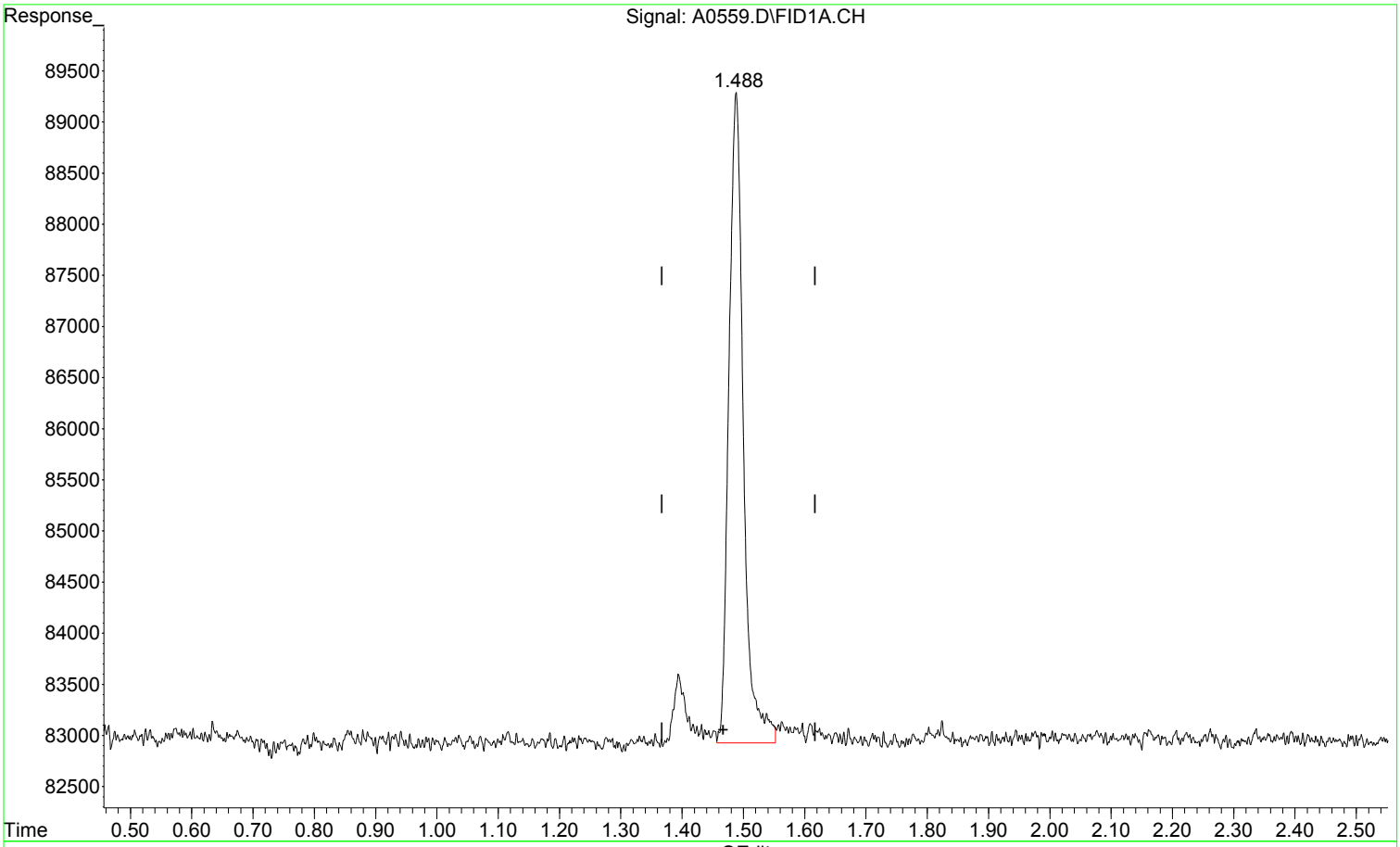
1st FN 06/07/24
2nd 06/09/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0559.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 12:51 pm
Operator : F.NAEGLER
Sample : R2404674-001
Misc : CEC 979 T4
ALS Vial : 7 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 13:02:48 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.488min 1.752 ug/L m

response 104463

Manual Integration:

After

Peak not found.

06/07/24

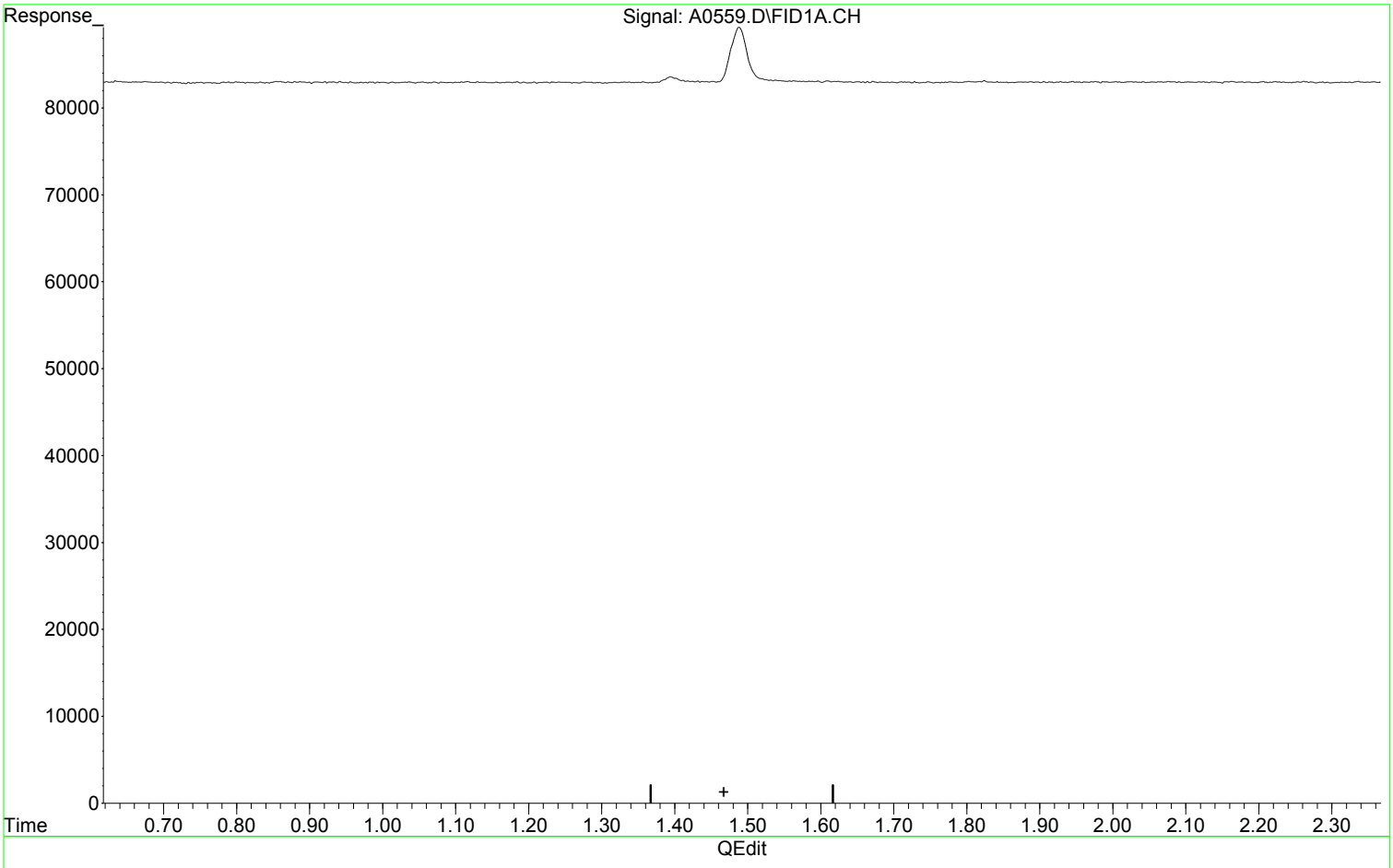
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0559.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 12:51 pm
Operator : F.NAEGLER
Sample : R2404674-001
Misc : CEC 979 T4
ALS Vial : 7 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 13:02:48 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.467min 0.000 ug/L

response 0

Manual Integration:

Before

06/07/24

(+) = Expected Retention Time

1st FW 06/07/24
2nd WR 06/09/24

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0559.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 12:51 pm
Operator : F.NAEGLER
Sample : R2404674-001
Misc : CEC 979 T4
ALS Vial : 7 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 13:02:48 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.488	104463	1.752	ug/L	m
2)	Acetylene	0.000	0	N.D.	ug/L	
3)	Ethylene	0.000	0	N.D.	ug/L	
4)	Ethane	0.000	0	N.D.	ug/L	
5)	Propane	0.000	0	N.D.	ug/L	

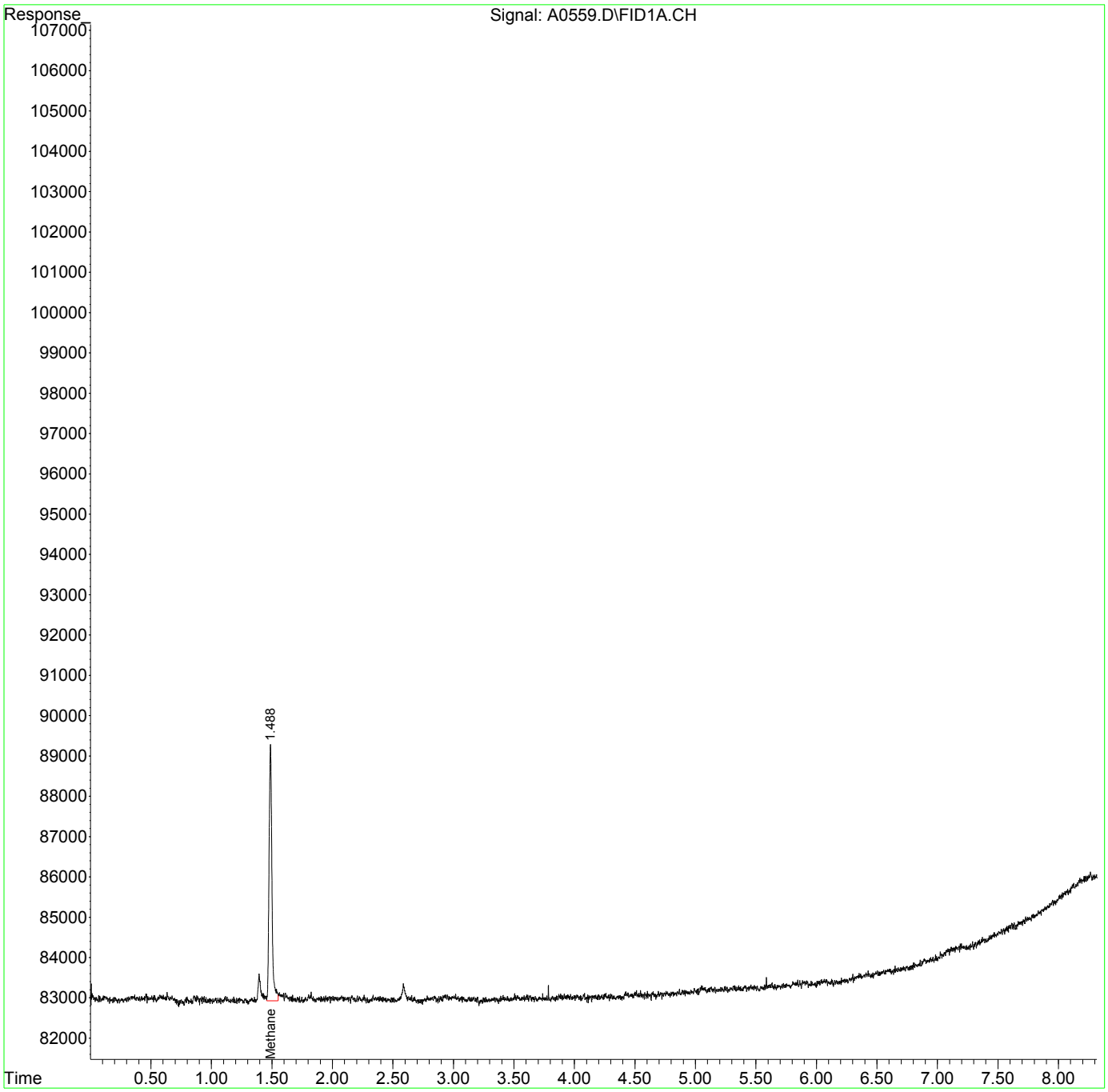
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0559.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 12:51 pm
Operator : F.NAEGLER
Sample : R2404674-001
Misc : CEC 979 T4
ALS Vial : 7 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 13:02:48 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



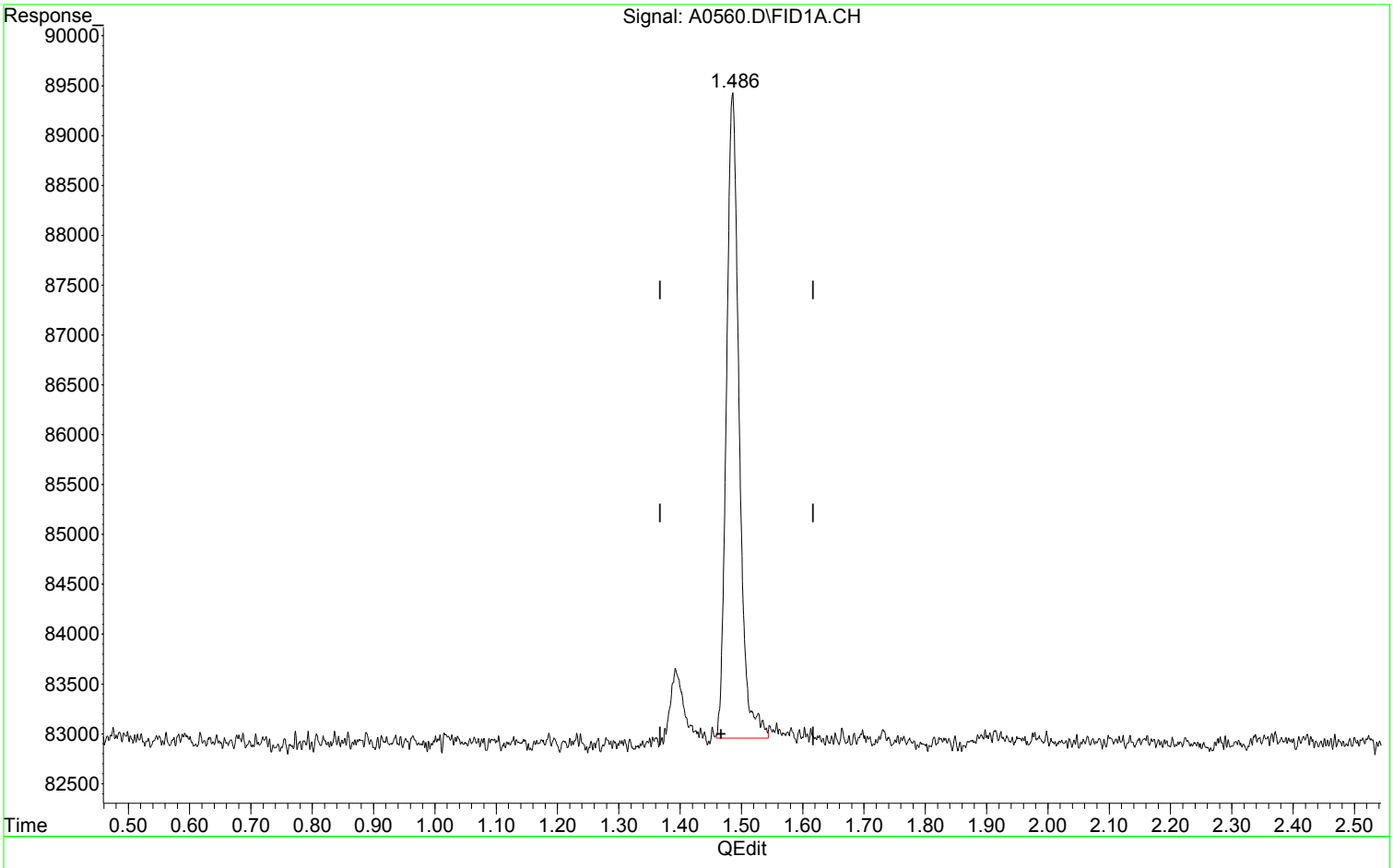
1st FN 06/07/24
2nd 06/09/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0560.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 1:05 pm
Operator : F.NAEGLER
Sample : R2404674-002
Misc : CEC 979 T4
ALS Vial : 8 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 13:19:07 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.486min 1.557 ug/L m

response 92812

Manual Integration:

After

Peak not found.

06/07/24

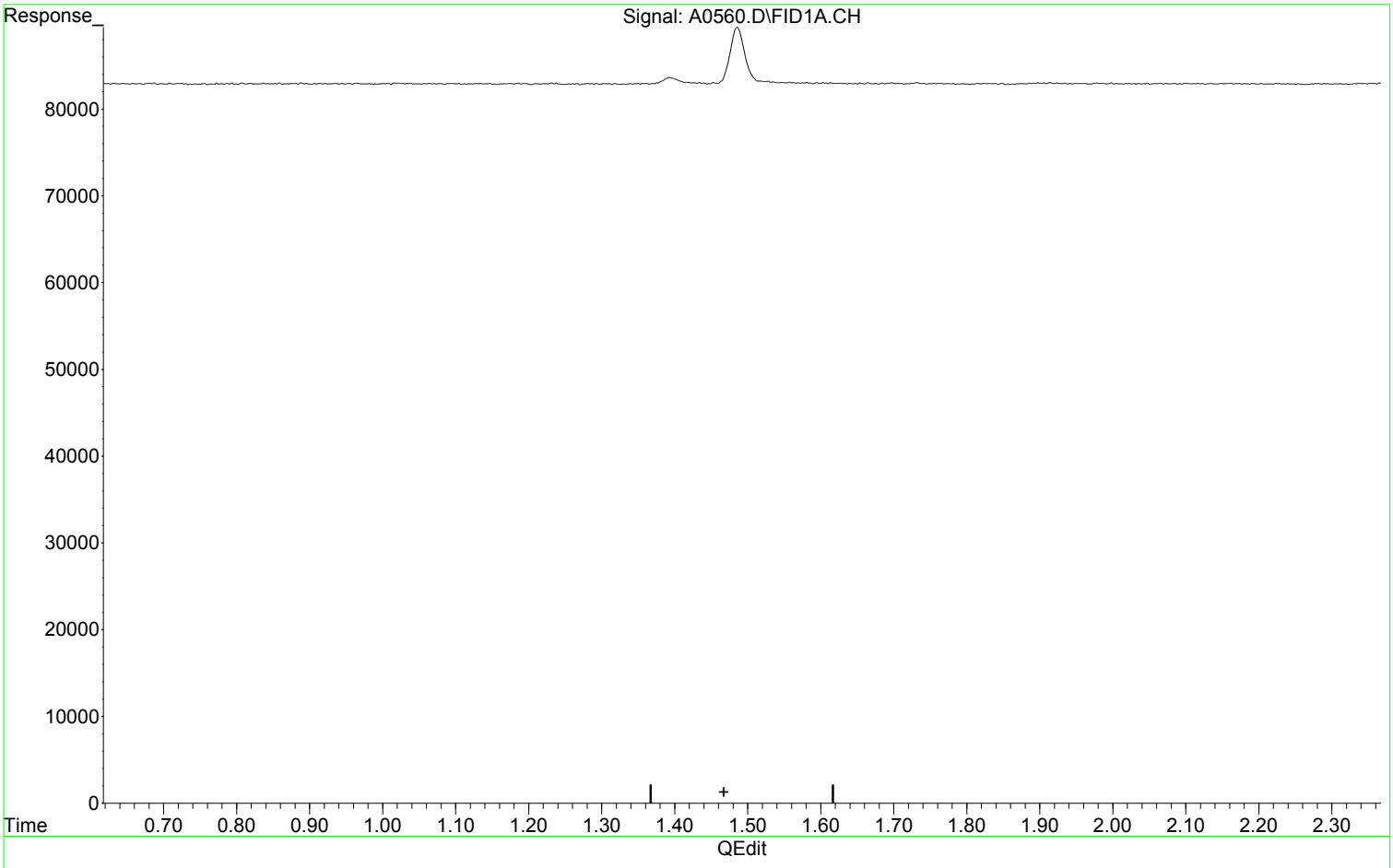
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0560.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 1:05 pm
Operator : F.NAEGLER
Sample : R2404674-002
Misc : CEC 979 T4
ALS Vial : 8 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 13:19:07 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.467min 0.000 ug/L

response 0

Manual Integration:

Before

06/07/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0560.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 1:05 pm
Operator : F.NAEGLER
Sample : R2404674-002
Misc : CEC 979 T4
ALS Vial : 8 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 13:19:07 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.486	92812	1.557	ug/L	m
2)	Acetylene	0.000	0	N.D.	ug/L	
3)	Ethylene	0.000	0	N.D.	ug/L	
4)	Ethane	0.000	0	N.D.	ug/L	
5)	Propane	0.000	0	N.D.	ug/L	

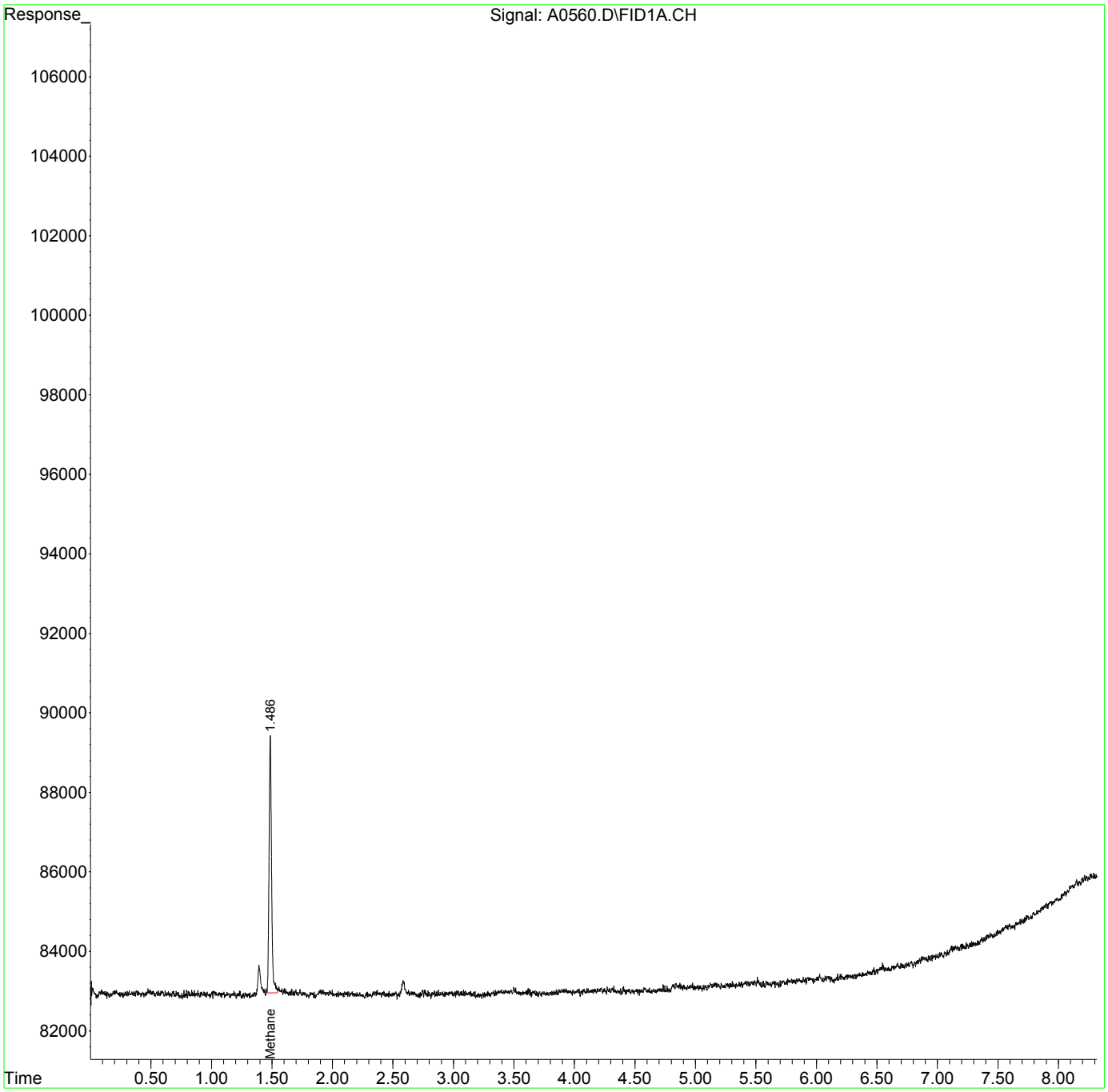
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0560.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 1:05 pm
Operator : F.NAEGLER
Sample : R2404674-002
Misc : CEC 979 T4
ALS Vial : 8 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 13:19:07 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

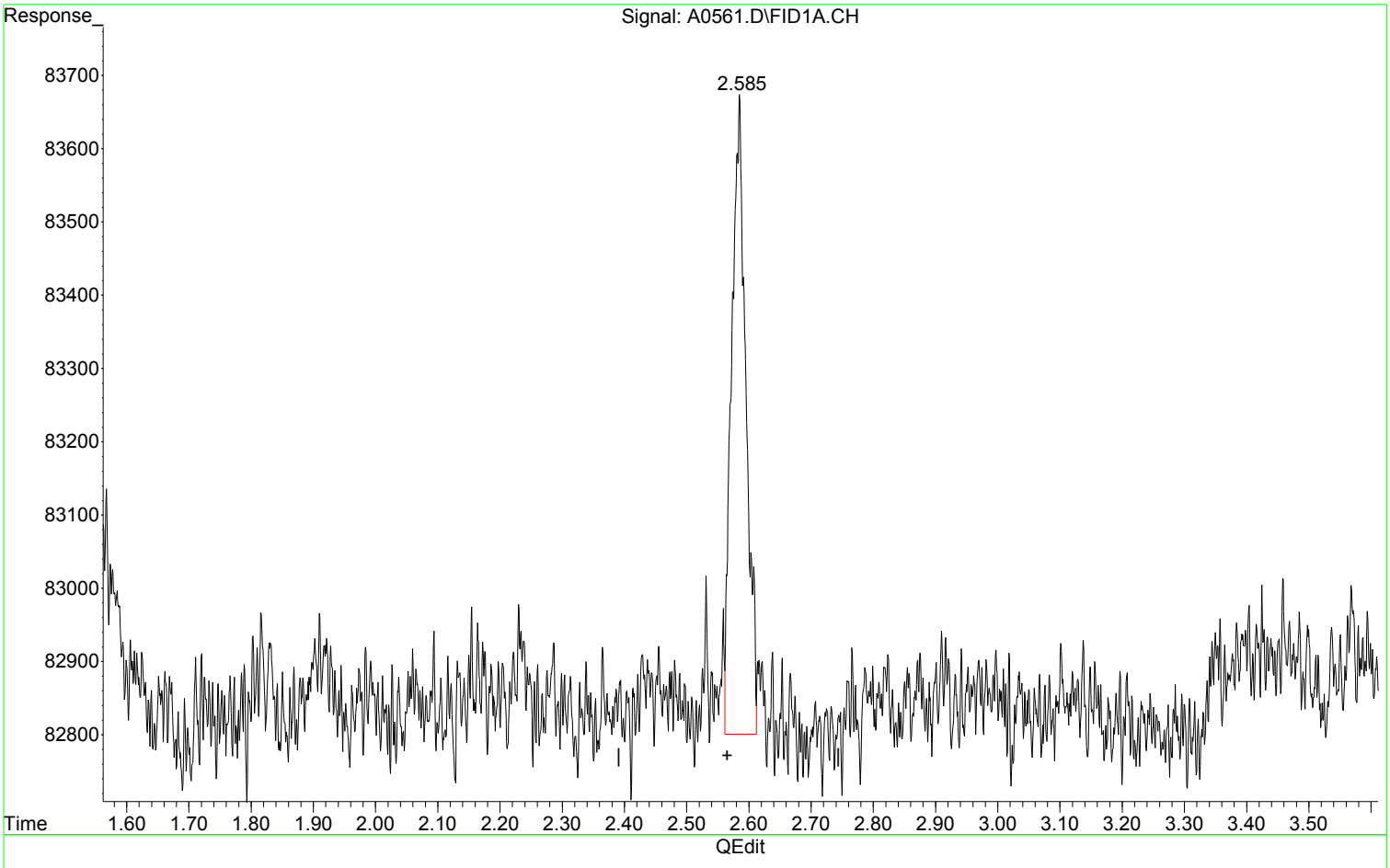


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0561.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 1:21 pm
Operator : F.NAEGLER
Sample : R2404674-004
Misc : CEC 979 T4
ALS Vial : 9 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 13:30:11 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.585min 0.259 ug/L m
response 14015

Manual Integration:
After
Peak not found.
06/07/24

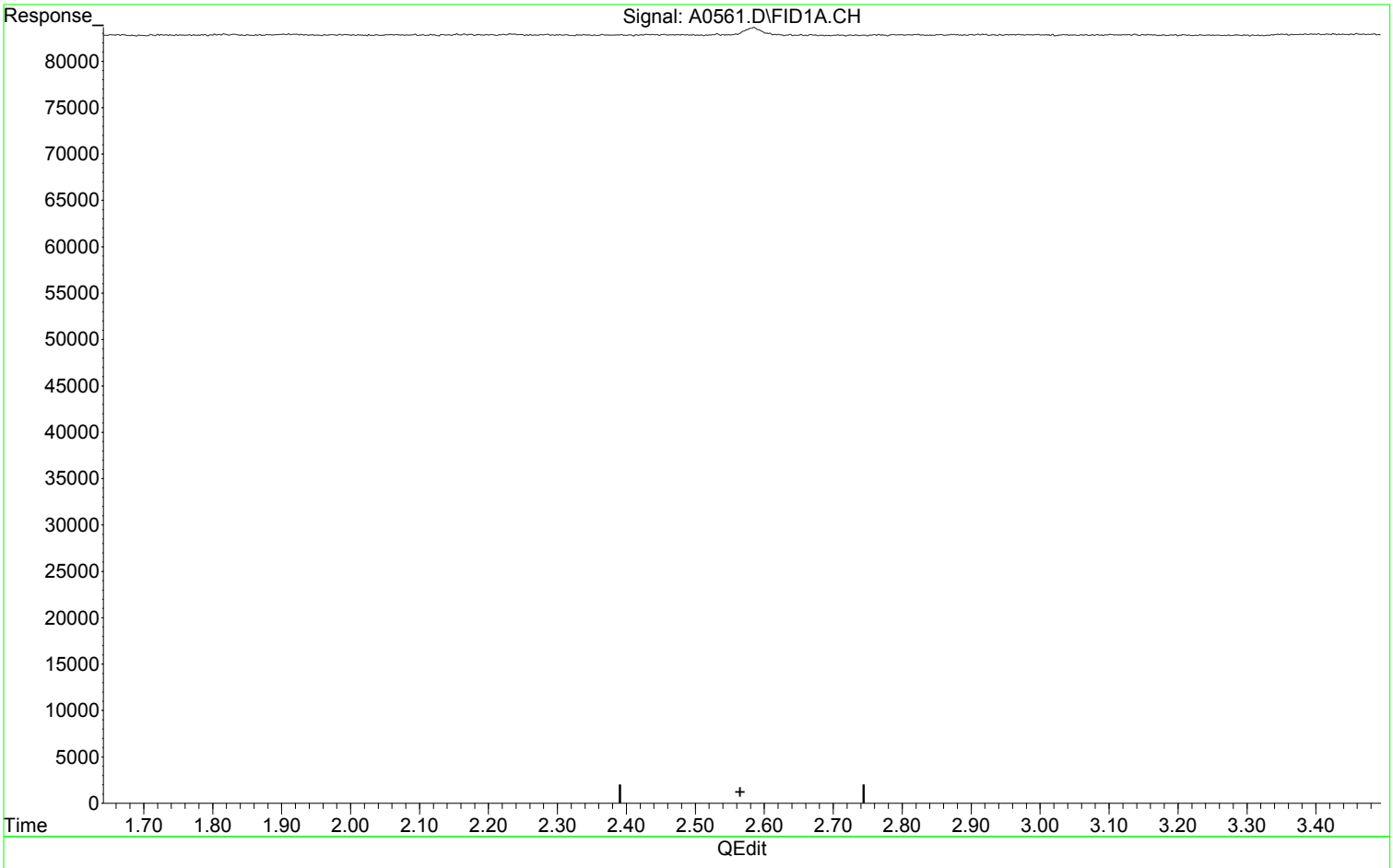
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0561.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 1:21 pm
Operator : F.NAEGLER
Sample : R2404674-004
Misc : CEC 979 T4
ALS Vial : 9 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 13:30:11 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane

2.565min 0.000 ug/L

response 0

Manual Integration:

Before

06/07/24

(+) = Expected Retention Time

RSK050224.M Fri Jun 07 13:30:25 2024 Page: 1

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0561.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 1:21 pm
Operator : F.NAEGLER
Sample : R2404674-004
Misc : CEC 979 T4
ALS Vial : 9 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 13:30:11 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.475	3518109	59.014	ug/L	
2)	Acetylene	0.000	0	N.D.	ug/L	
3)	Ethylene	0.000	0	N.D.	ug/L	
4)	Ethane	2.585	14015	0.259	ug/L	m
5)	Propane	0.000	0	N.D.	ug/L	

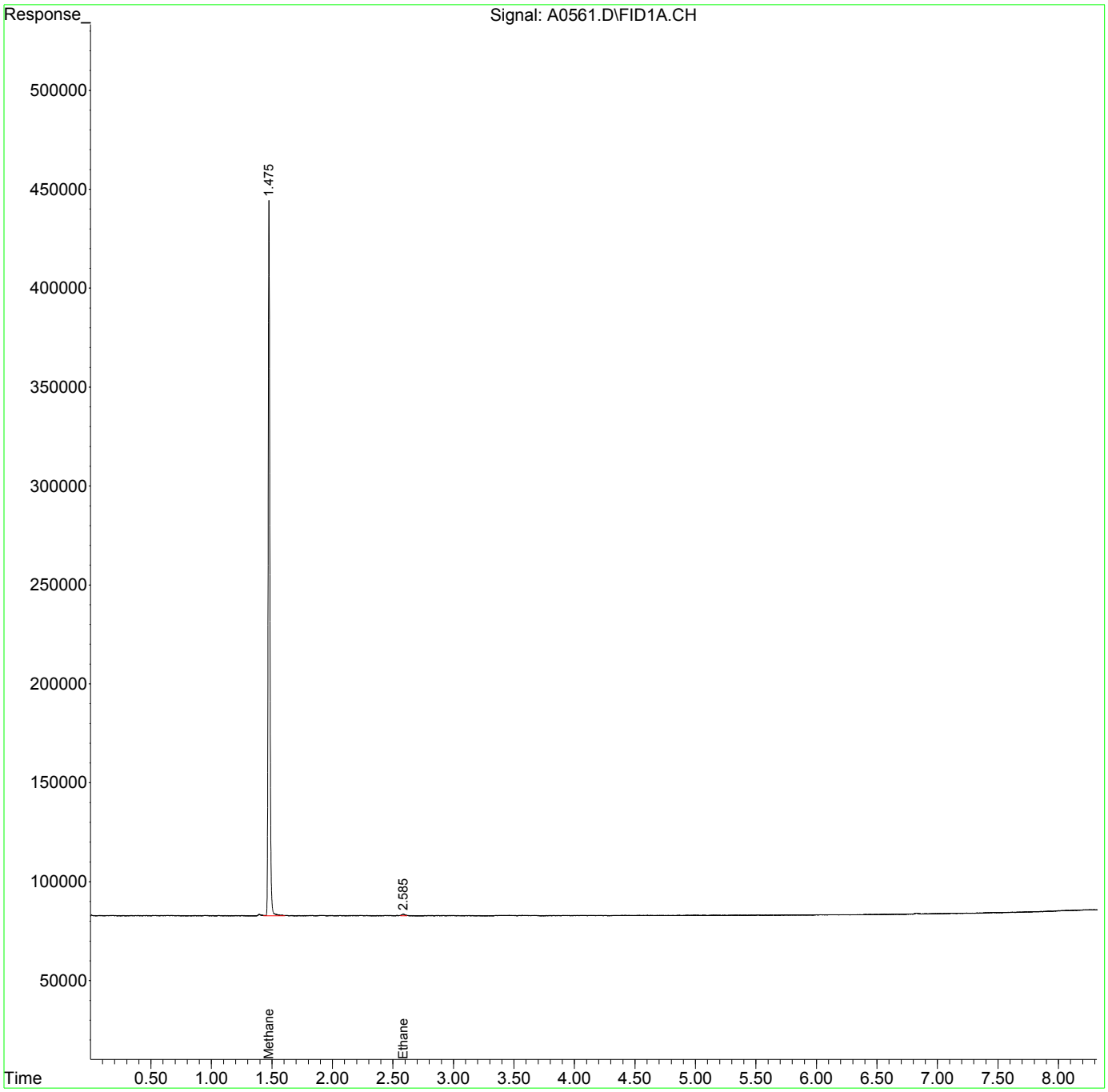
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0561.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 1:21 pm
Operator : F.NAEGLER
Sample : R2404674-004
Misc : CEC 979 T4
ALS Vial : 9 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 13:30:11 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0562.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 1:32 pm
Operator : F.NAEGLER
Sample : R2404674-005
Misc : CEC 979 T4
ALS Vial : 10 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 13:41:58 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.475	461655	7.744	ug/L
2)	Acetylene	0.000	0	N.D.	ug/L
3)	Ethylene	0.000	0	N.D.	ug/L
4)	Ethane	0.000	0	N.D.	ug/L
5)	Propane	0.000	0	N.D.	ug/L

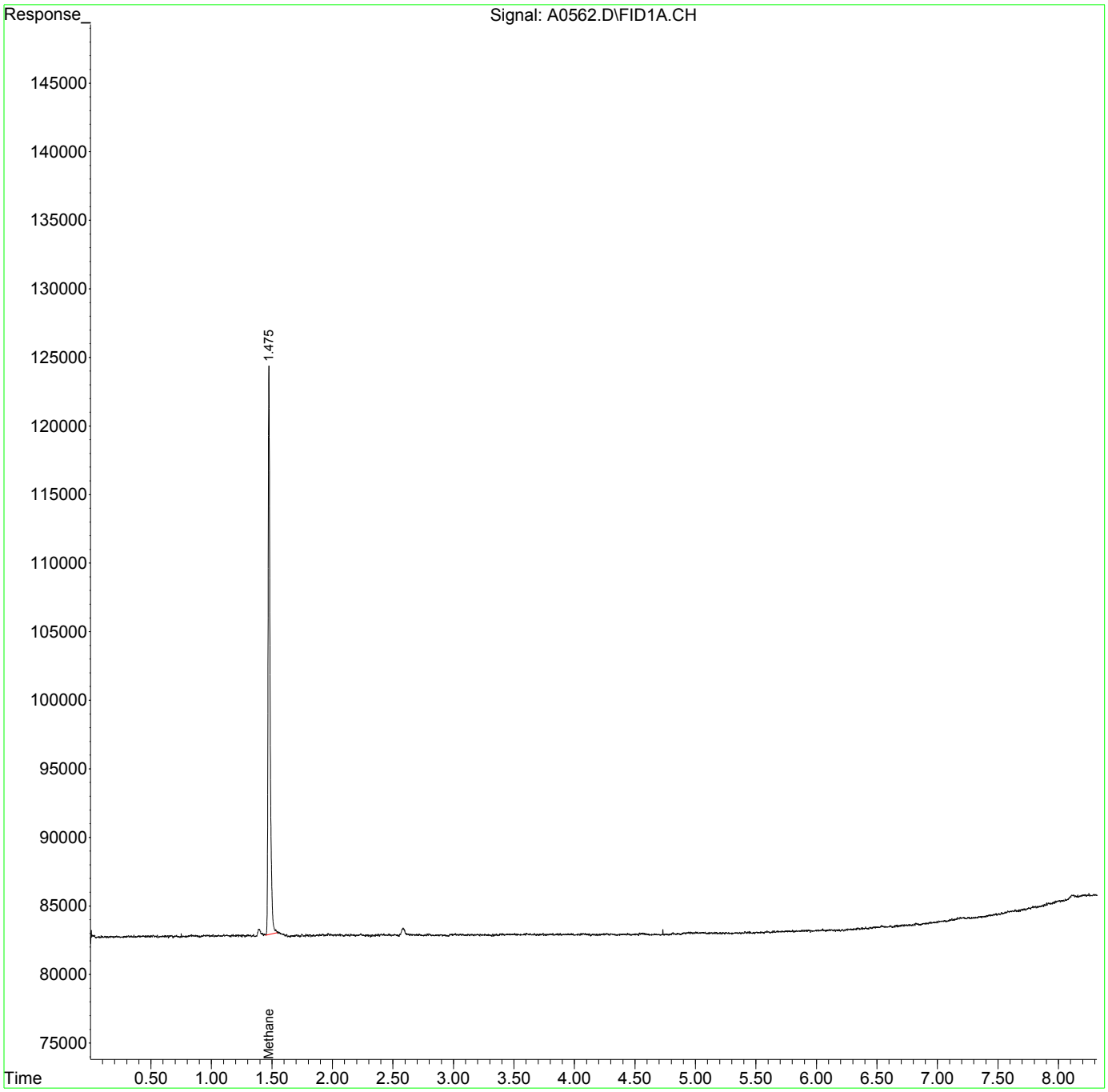
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0562.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 1:32 pm
Operator : F.NAEGLER
Sample : R2404674-005
Misc : CEC 979 T4
ALS Vial : 10 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 13:41:58 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0564.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 2:00 pm
Operator : F.NAEGLER
Sample : R2404674-006|20.0
Misc : CEC 979 T4
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 14:09:17 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.475	10771404	180.683	ug/L
2)	Acetylene	0.000	0	N.D.	ug/L
3)	Ethylene	0.000	0	N.D.	ug/L
4)	Ethane	0.000	0	N.D.	ug/L
5)	Propane	0.000	0	N.D.	ug/L

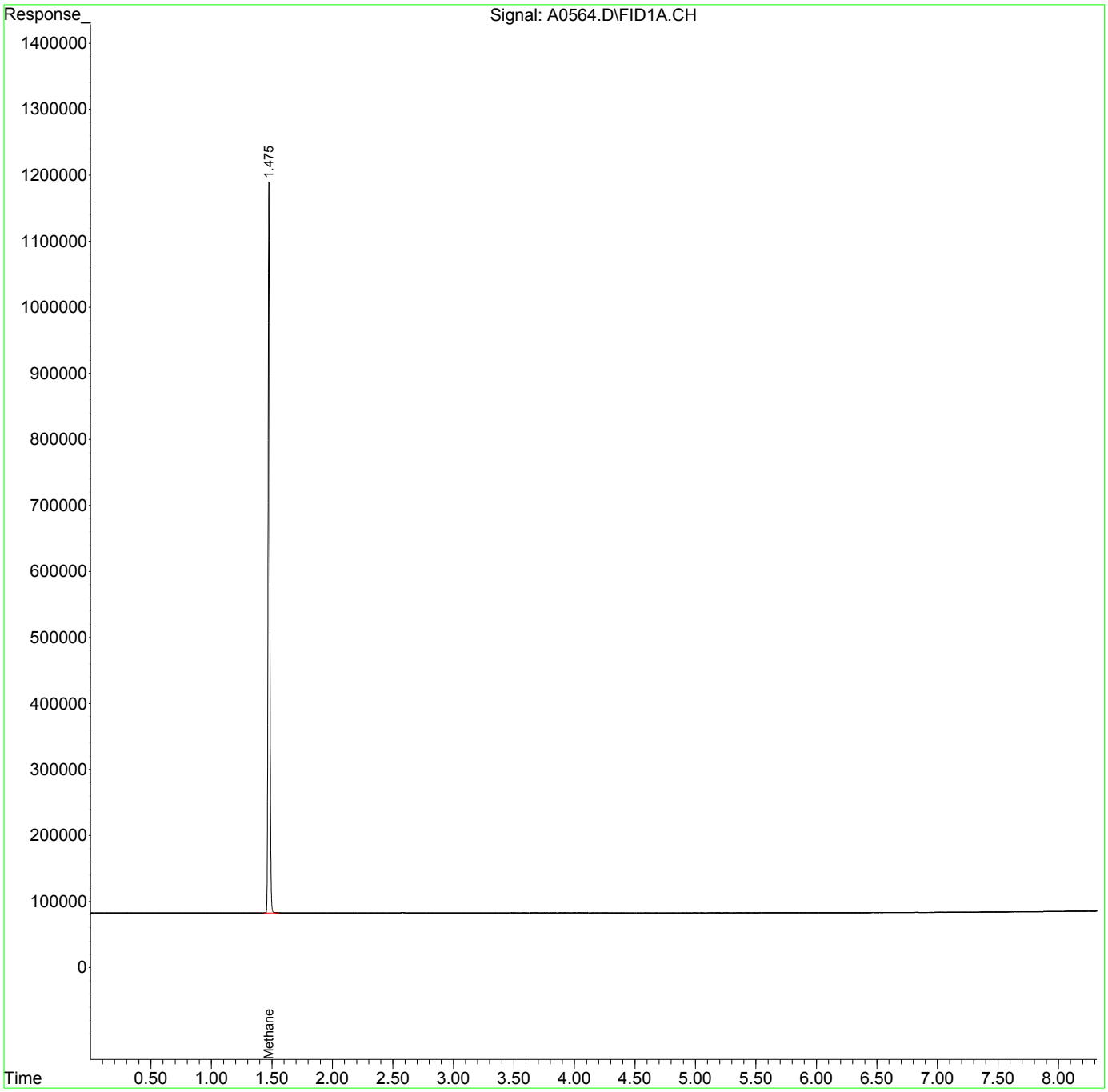
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0564.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 2:00 pm
Operator : F.NAEGLER
Sample : R2404674-006|20.0
Misc : CEC 979 T4
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 14:09:17 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0565.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 2:12 pm
Operator : F.NAEGLER
Sample : R2404674-007|10.0
Misc : CEC 979 T4
ALS Vial : 13 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 14:21:43 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.476	28624352	480.154	ug/L
2)	Acetylene	0.000	0	N.D.	ug/L
3)	Ethylene	0.000	0	N.D.	ug/L
4)	Ethane	0.000	0	N.D.	ug/L
5)	Propane	0.000	0	N.D.	ug/L

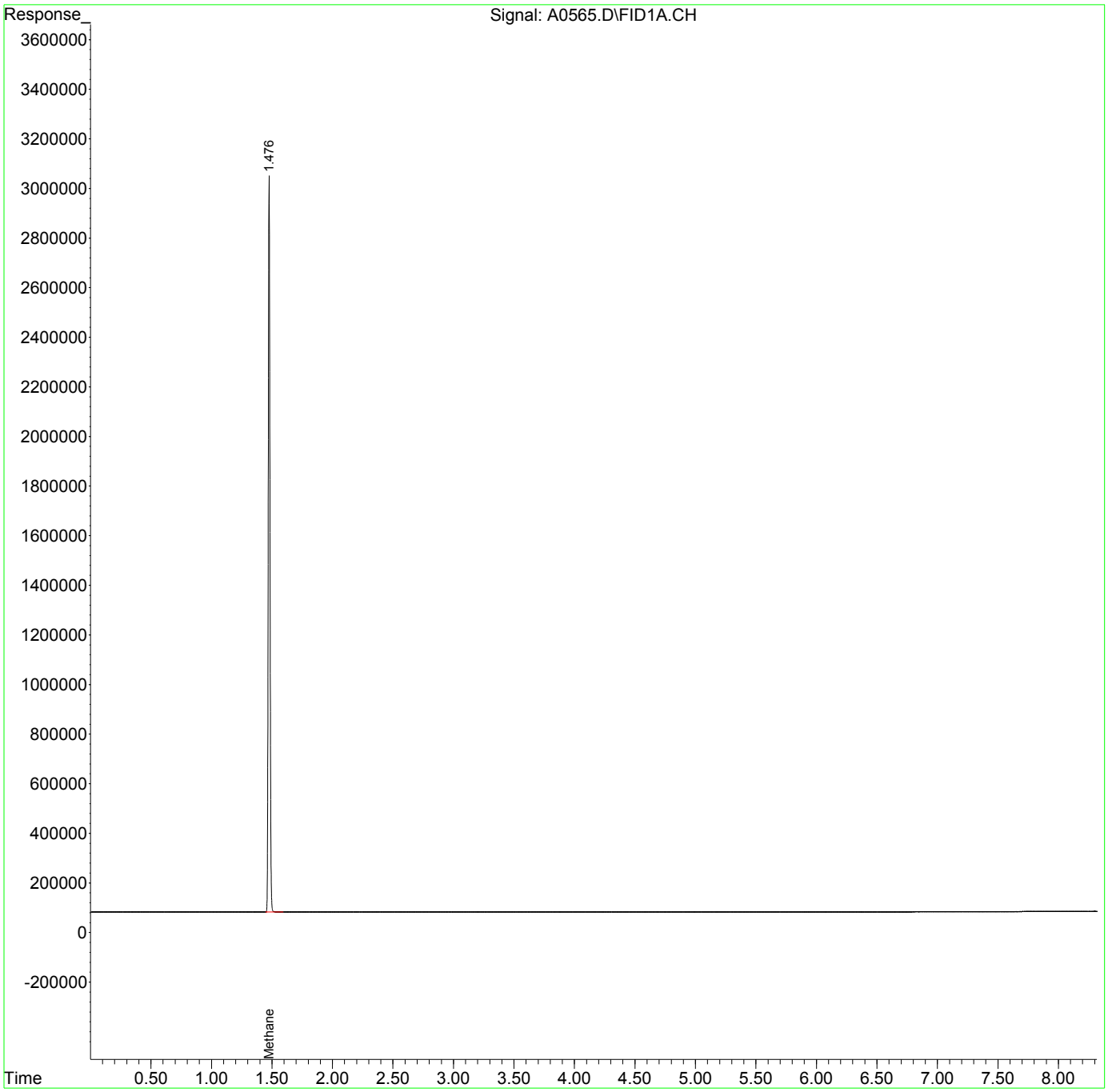
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0565.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 2:12 pm
Operator : F.NAEGLER
Sample : R2404674-007|10.0
Misc : CEC 979 T4
ALS Vial : 13 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 14:21:43 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



1st FJ 06/07/24
2nd 06/09/24

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0566.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 2:23 pm
Operator : F.NAEGLER
Sample : R2404674-008|50.0
Misc : CEC 979 T4
ALS Vial : 14 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 14:34:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.475	19036198	319.319	ug/L
2)	Acetylene	0.000	0	N.D.	ug/L
3)	Ethylene	0.000	0	N.D.	ug/L
4)	Ethane	0.000	0	N.D.	ug/L
5)	Propane	0.000	0	N.D.	ug/L

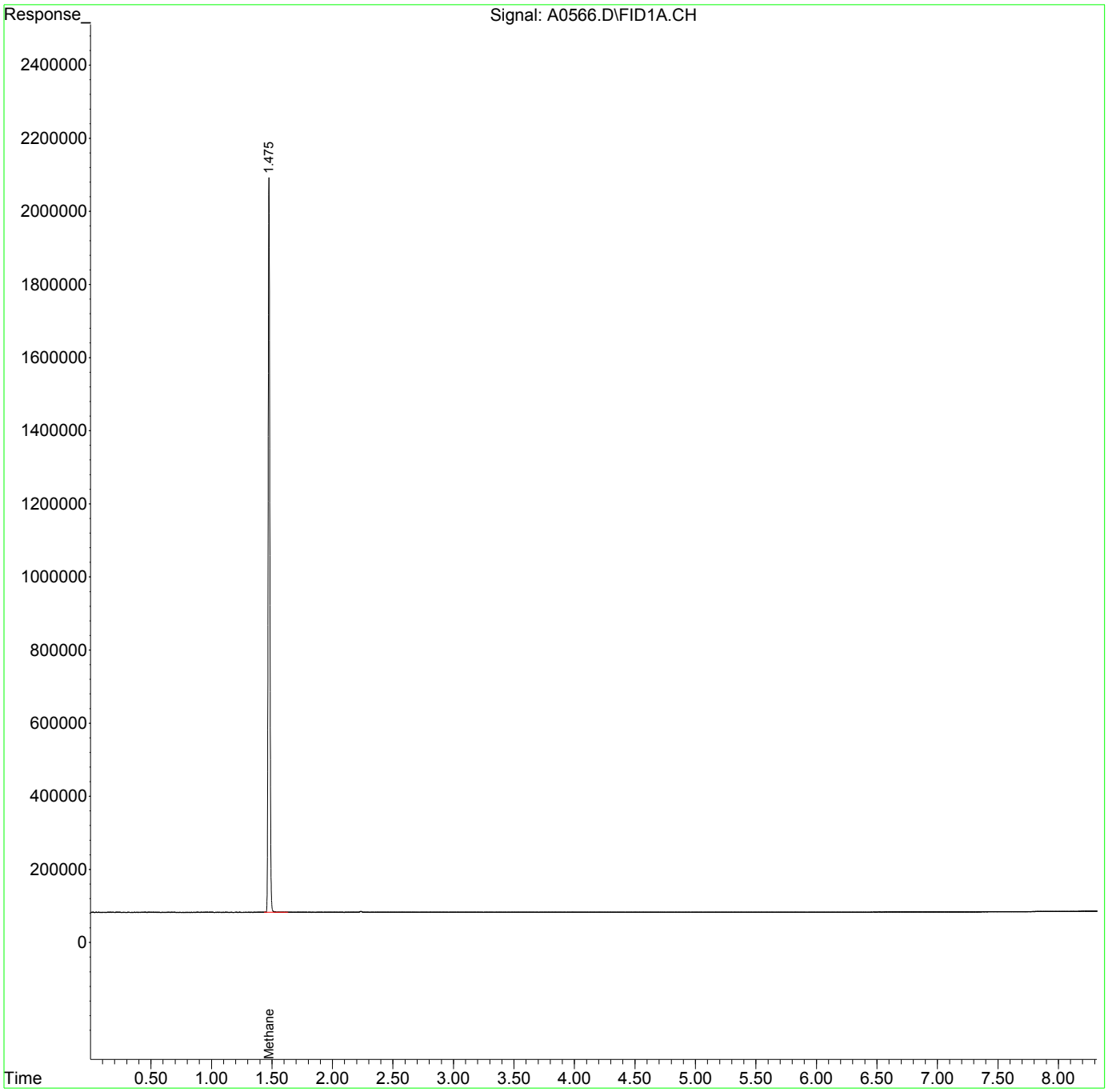
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0566.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 2:23 pm
Operator : F.NAEGLER
Sample : R2404674-008|50.0
Misc : CEC 979 T4
ALS Vial : 14 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 14:34:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



1st FJ 06/07/24
2nd 06/09/24

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0567.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 2:35 pm
Operator : F.NAEGLER
Sample : R2404674-009|20.0
Misc : CEC 979 T4
ALS Vial : 15 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 14:44:38 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.478	12555936	210.617	ug/L
2)	Acetylene	0.000	0	N.D.	ug/L
3)	Ethylene	0.000	0	N.D.	ug/L
4)	Ethane	0.000	0	N.D.	ug/L
5)	Propane	0.000	0	N.D.	ug/L

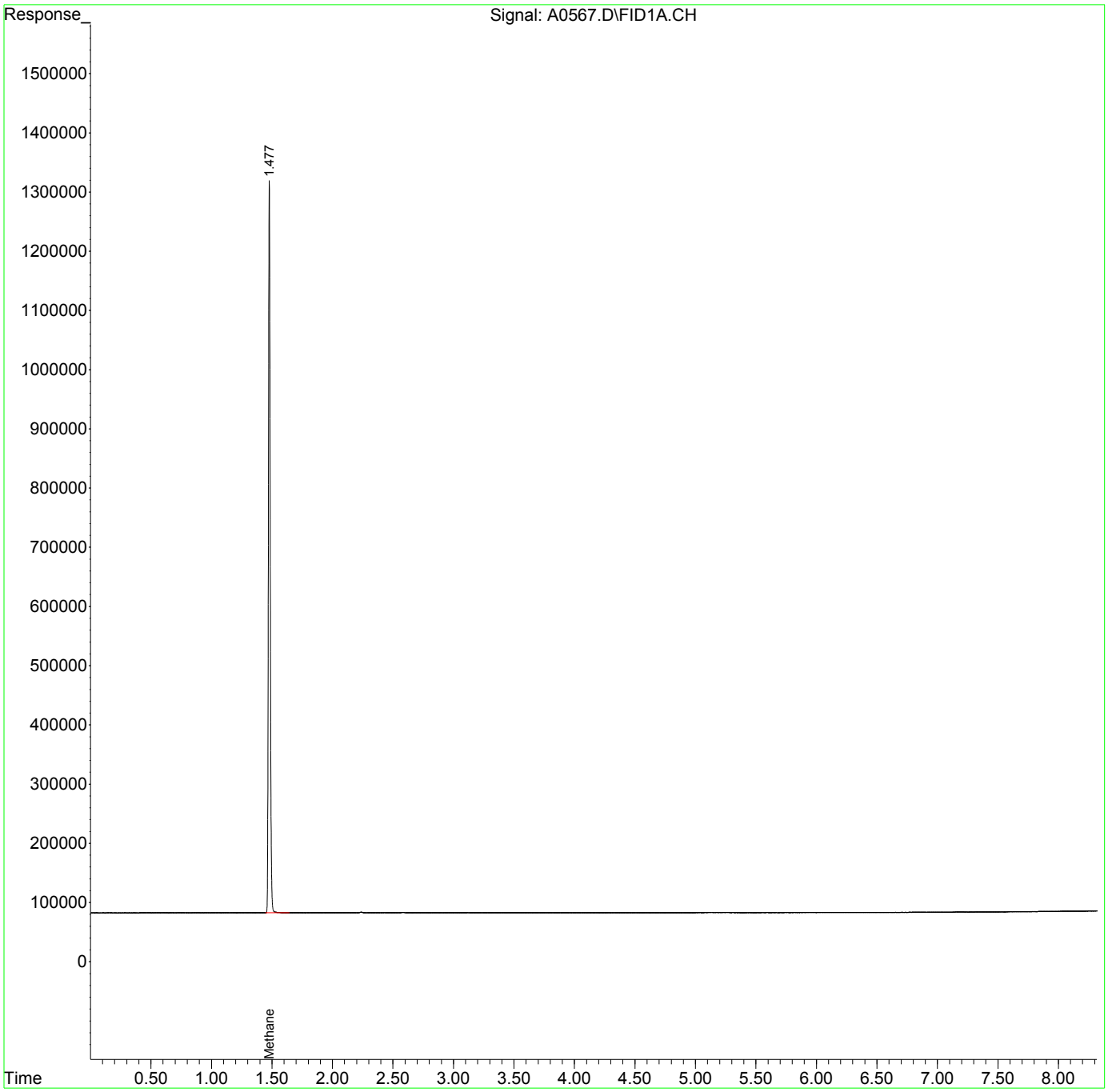
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0567.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 2:35 pm
Operator : F.NAEGLER
Sample : R2404674-009|20.0
Misc : CEC 979 T4
ALS Vial : 15 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 14:44:38 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

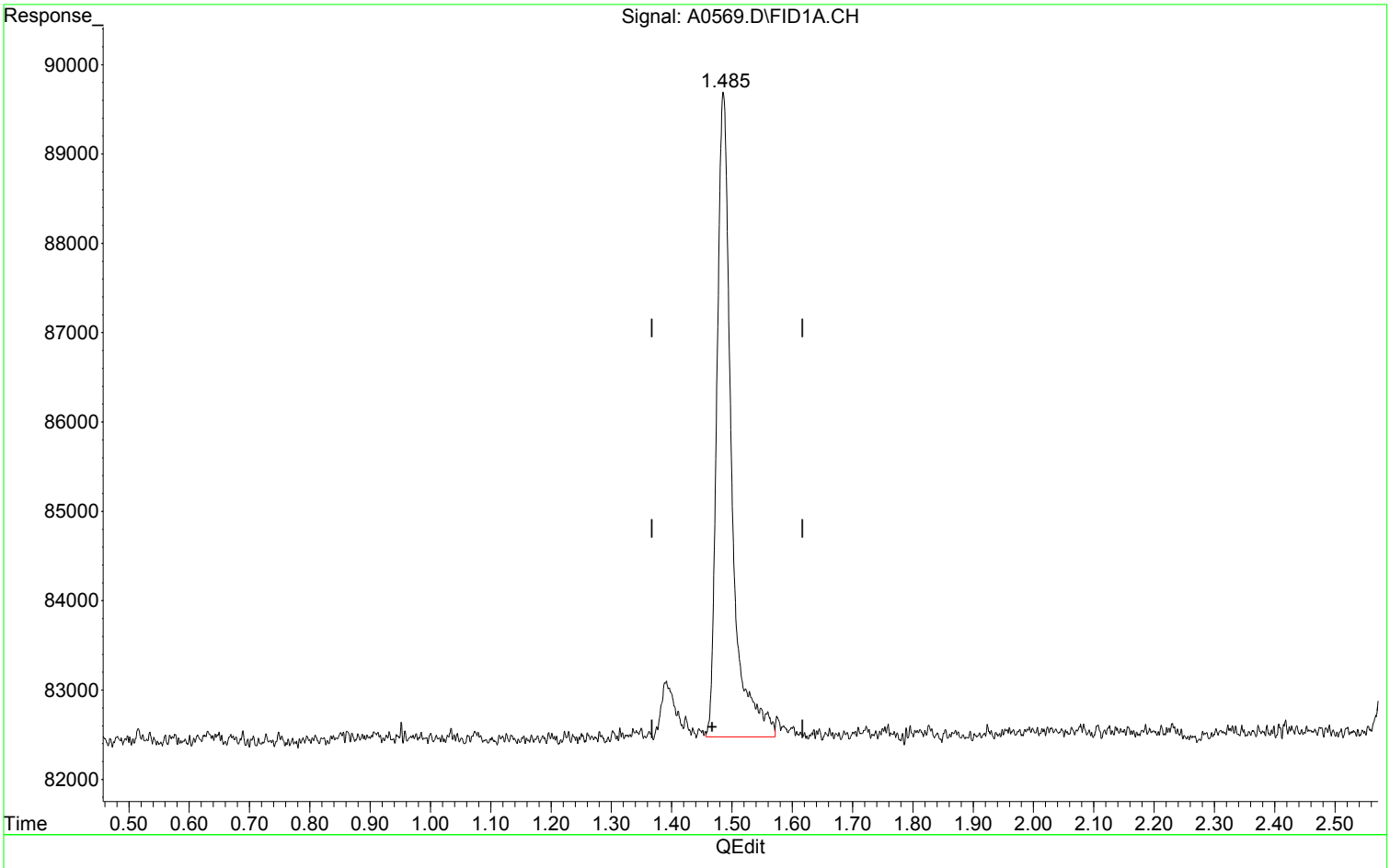


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0569.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 2:59 pm
Operator : F.NAEGLER
Sample : R2404674-010
Misc : CEC 979 T4
ALS Vial : 17 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 15:07:56 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.485min 2.038 ug/L m

response 121474

Manual Integration:

After

Peak not found.

06/07/24

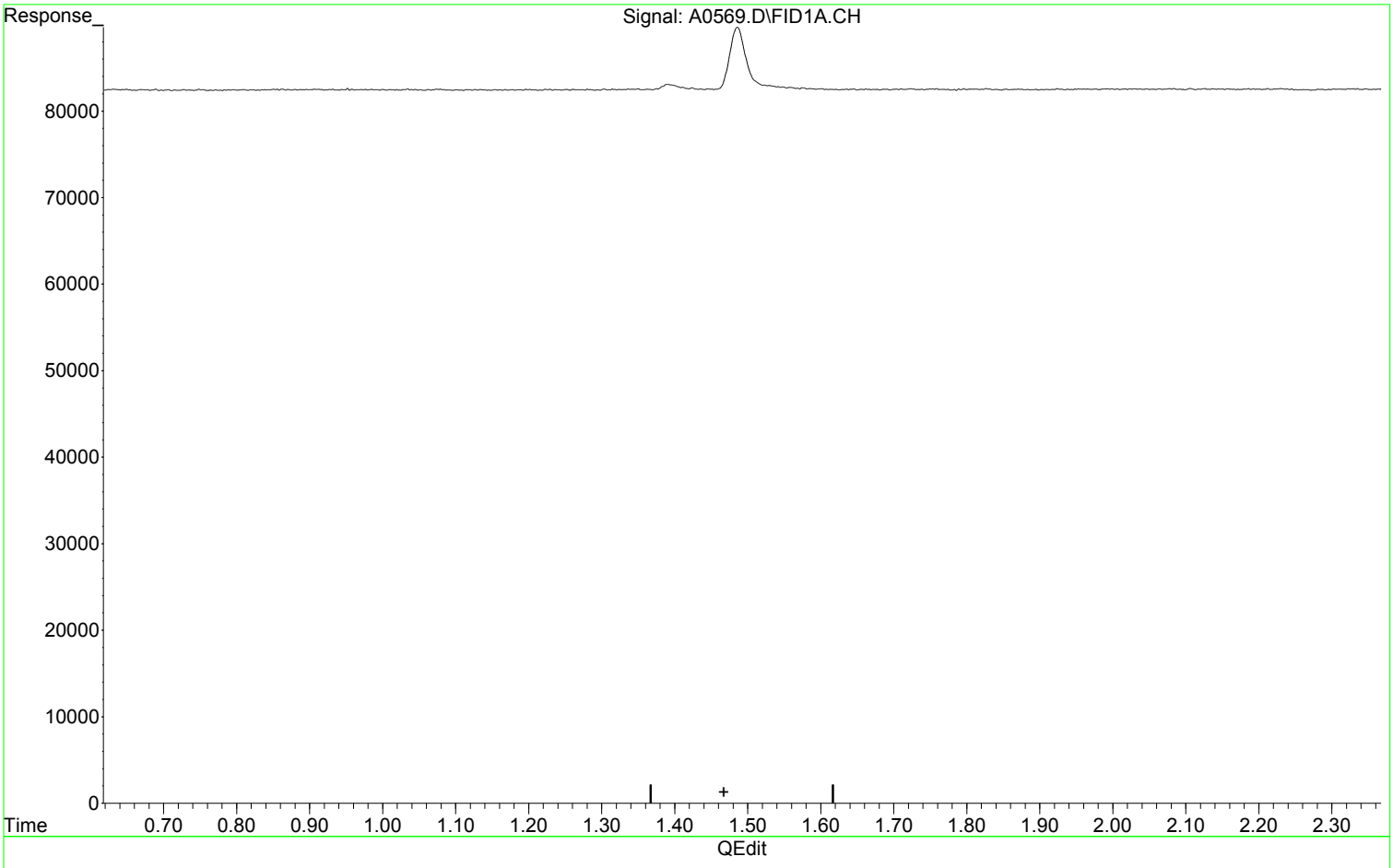
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0569.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 2:59 pm
Operator : F.NAEGLER
Sample : R2404674-010
Misc : CEC 979 T4
ALS Vial : 17 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 15:07:56 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.467min 0.000 ug/L

response 0

Manual Integration:

Before

06/07/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0569.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 2:59 pm
Operator : F.NAEGLER
Sample : R2404674-010
Misc : CEC 979 T4
ALS Vial : 17 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 15:07:56 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.485	121474	2.038	ug/L	m
2)	Acetylene	0.000	0	N.D.	ug/L	
3)	Ethylene	0.000	0	N.D.	ug/L	
4)	Ethane	0.000	0	N.D.	ug/L	
5)	Propane	0.000	0	N.D.	ug/L	

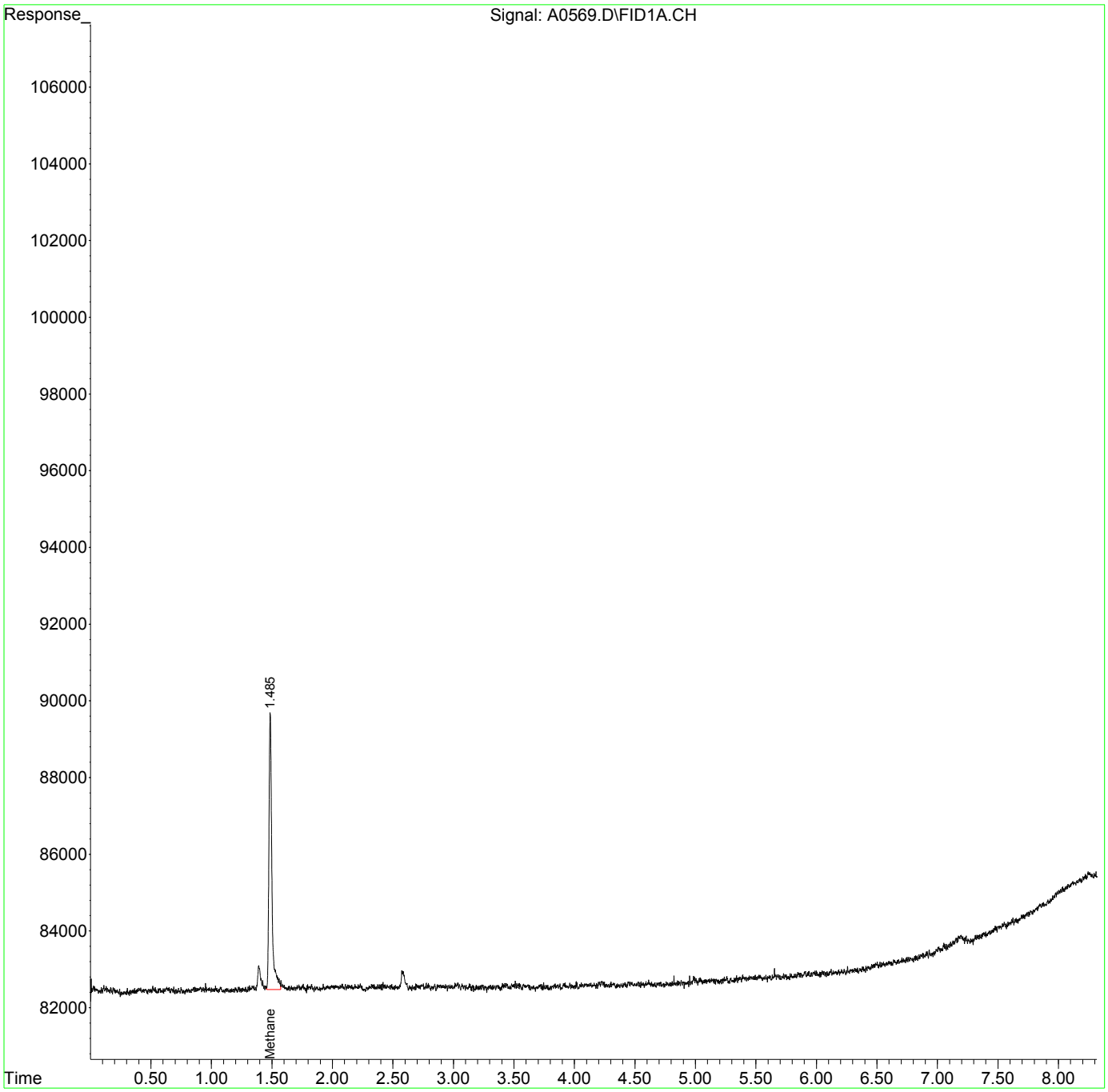
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0569.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 2:59 pm
Operator : F.NAEGLER
Sample : R2404674-010
Misc : CEC 979 T4
ALS Vial : 17 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 15:07:56 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0570.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 3:10 pm
Operator : F.NAEGLER
Sample : R2404674-011
Misc : CEC 979 T4
ALS Vial : 18 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 15:19:42 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

rpt 1/2

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.474	36195920	607.162	ug/L
2)	Acetylene	0.000	0	N.D.	ug/L
3)	Ethylene	0.000	0	N.D.	ug/L
4)	Ethane	0.000	0	N.D.	ug/L
5)	Propane	0.000	0	N.D.	ug/L

E-Over Calibration

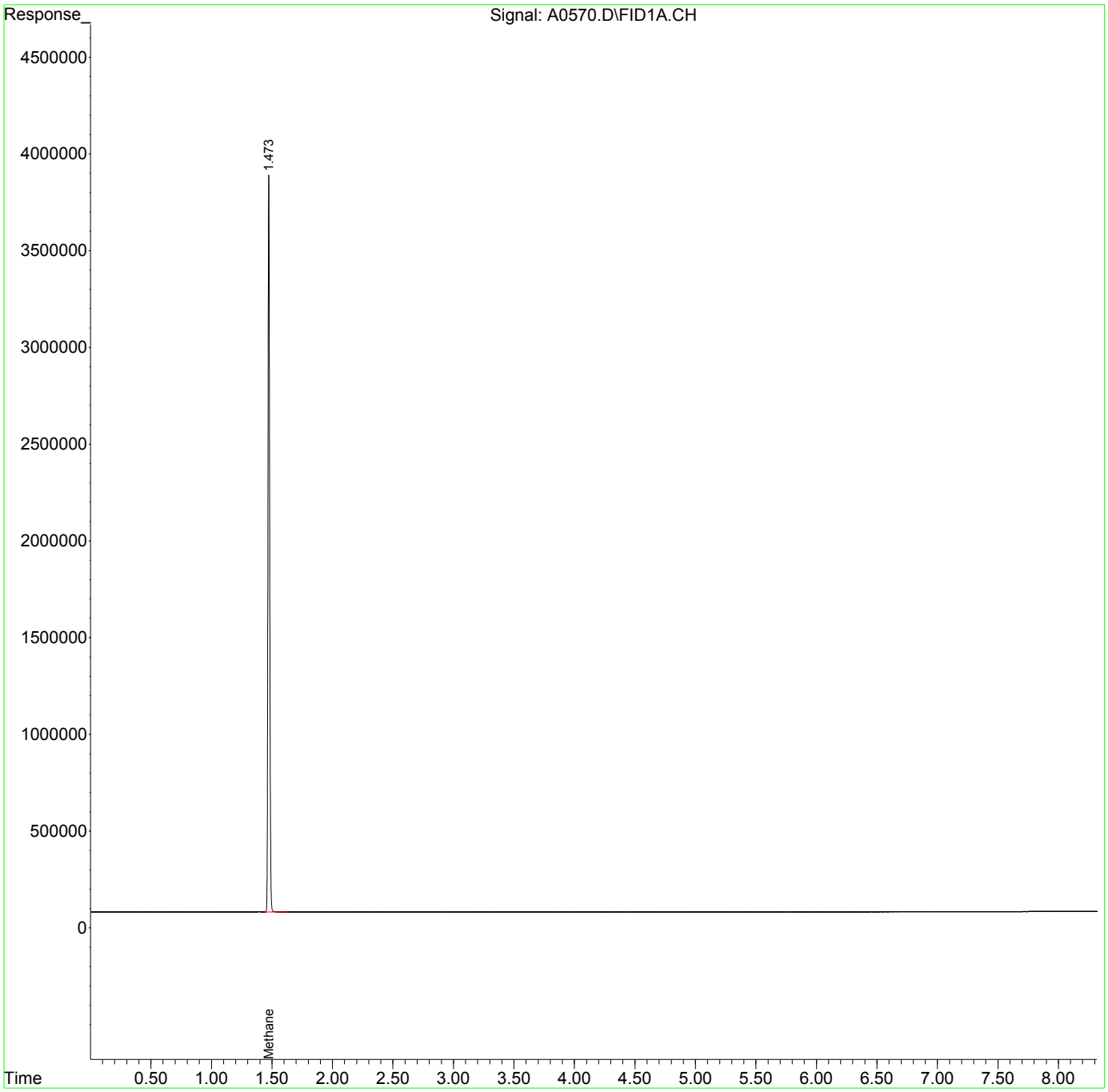
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0570.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 3:10 pm
Operator : F.NAEGLER
Sample : R2404674-011
Misc : CEC 979 T4
ALS Vial : 18 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 15:19:42 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0571.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 3:22 pm
Operator : F.NAEGLER
Sample : R2404674-011|2.0
Misc : CEC 979 T4
ALS Vial : 19 Sample Multiplier: 1

DL

Integration File: EVENTS.E
Quant Time: Jun 07 15:32:06 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.475	26534026	445.090	ug/L
2)	Acetylene	0.000	0	N.D.	ug/L
3)	Ethylene	0.000	0	N.D.	ug/L
4)	Ethane	0.000	0	N.D.	ug/L
5)	Propane	0.000	0	N.D.	ug/L

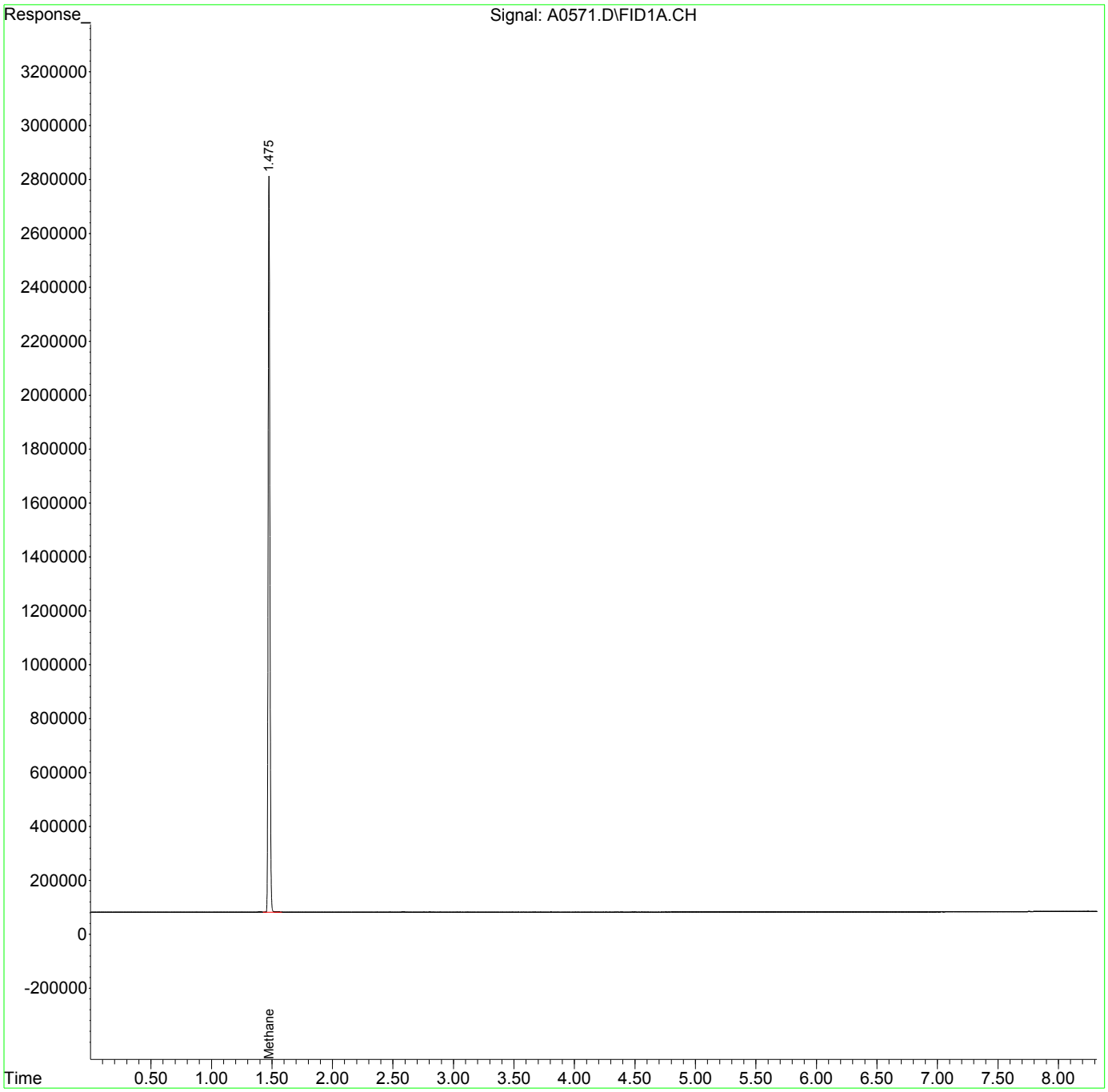
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0571.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 3:22 pm
Operator : F.NAEGLER
Sample : R2404674-011|2.0
Misc : CEC 979 T4
ALS Vial : 19 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 15:32:06 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

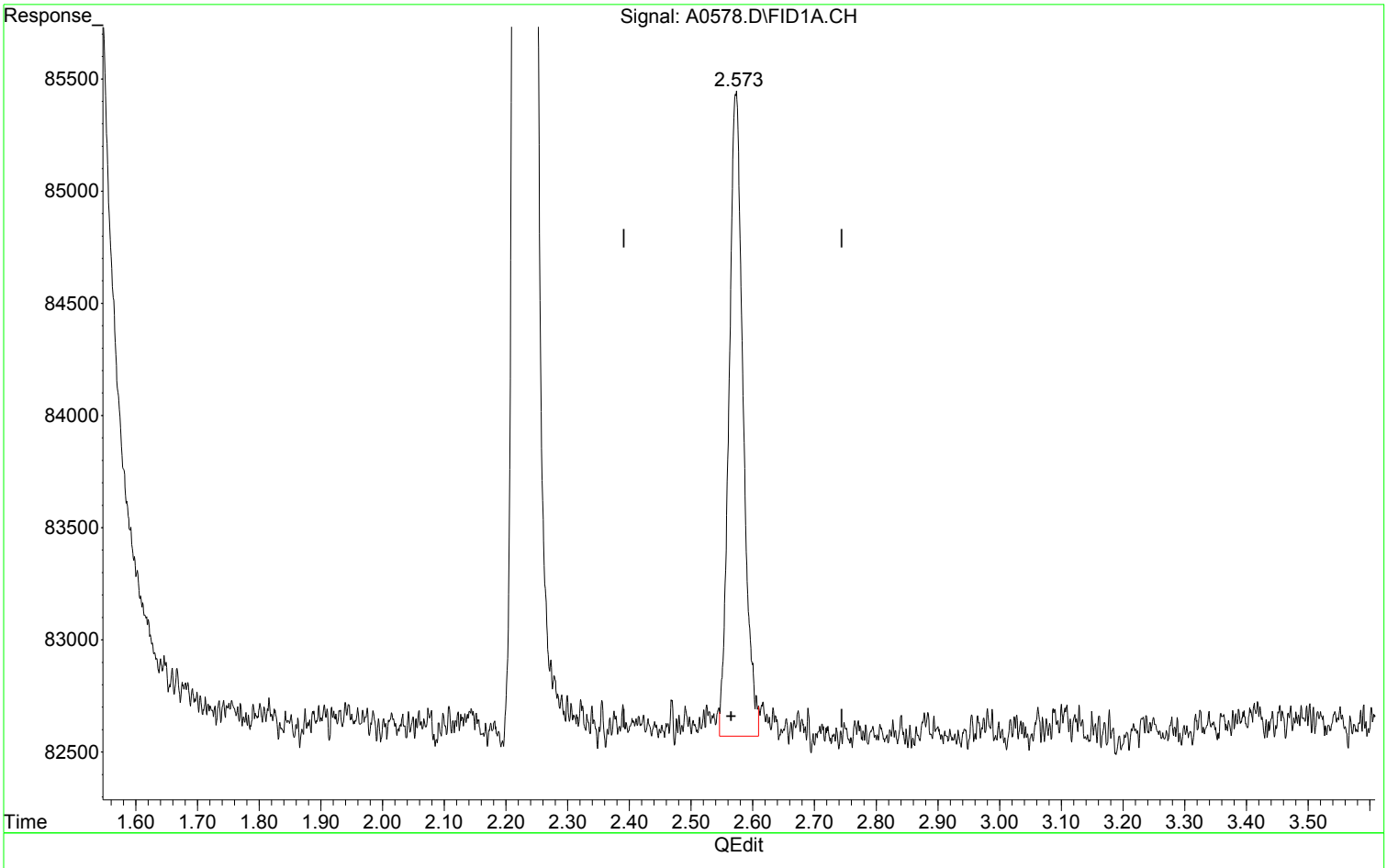


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0578.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 4:46 pm
Operator : F.NAEGLER
Sample : R2404674-013
Misc : CEC 979 T4
ALS Vial : 26 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 16:55:15 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane

2.573min 0.843 ug/L m

response 45627

Manual Integration:

After

Peak not found.

06/07/24

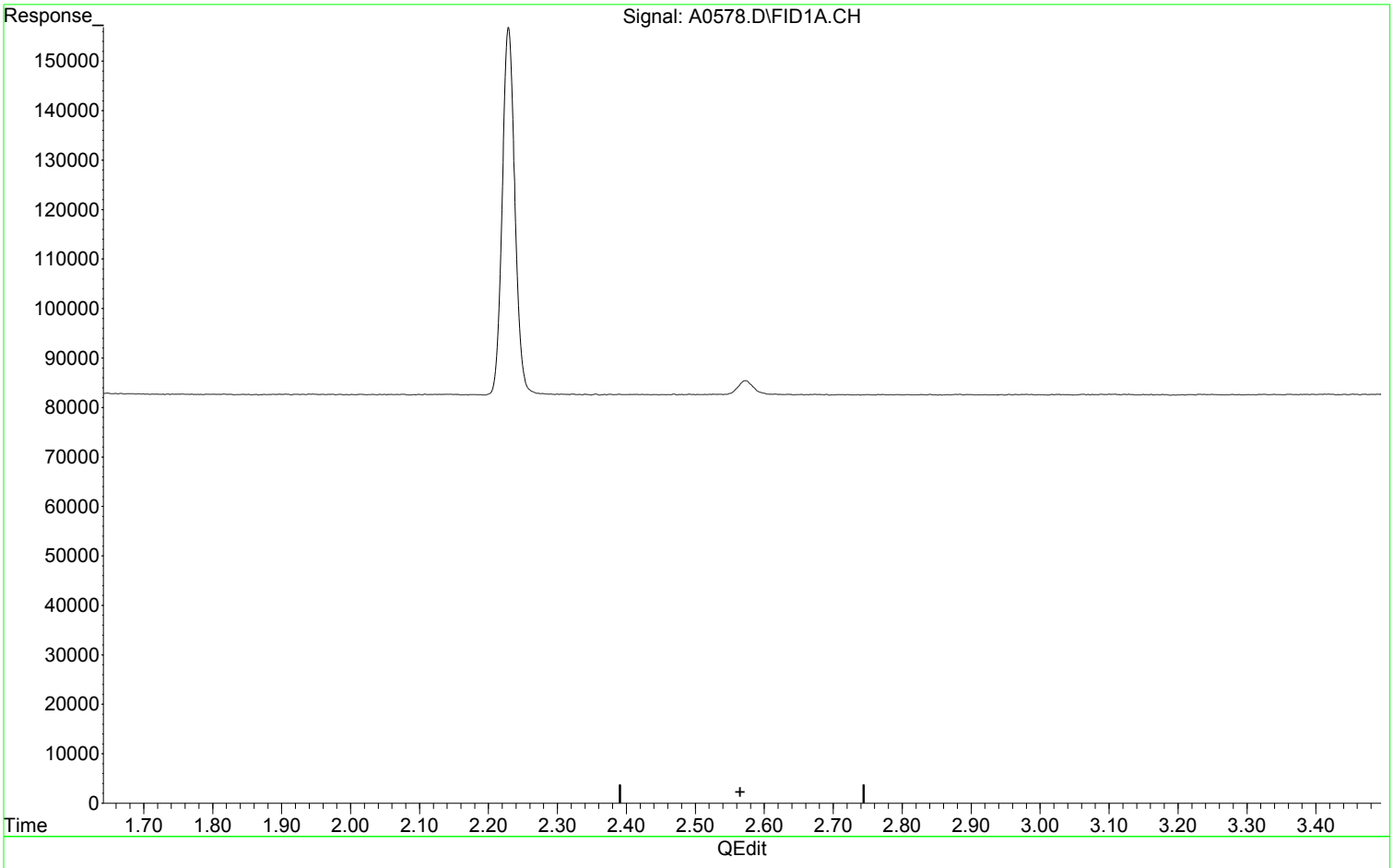
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0578.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 4:46 pm
Operator : F.NAEGLER
Sample : R2404674-013
Misc : CEC 979 T4
ALS Vial : 26 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 16:55:15 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.565min 0.000 ug/L
response 0

Manual Integration:
Before

06/07/24

(+) = Expected Retention Time

1st FW 06/07/24
2nd 06/09/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0578.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 4:46 pm
Operator : F.NAEGLER
Sample : R2404674-013
Misc : CEC 979 T4
ALS Vial : 26 Sample Multiplier: 1

rpt 1/100

Integration File: EVENTS.E
Quant Time: Jun 07 16:55:15 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.471	649795258	10899.874	ug/L	E-Over Calibration
2)	Acetylene	2.229	948678	40.708	ug/L	
3)	Ethylene	0.000	0	N.D.	ug/L	
4)	Ethane	2.573	45627	0.843	ug/L	m
5)	Propane	0.000	0	N.D.	ug/L	

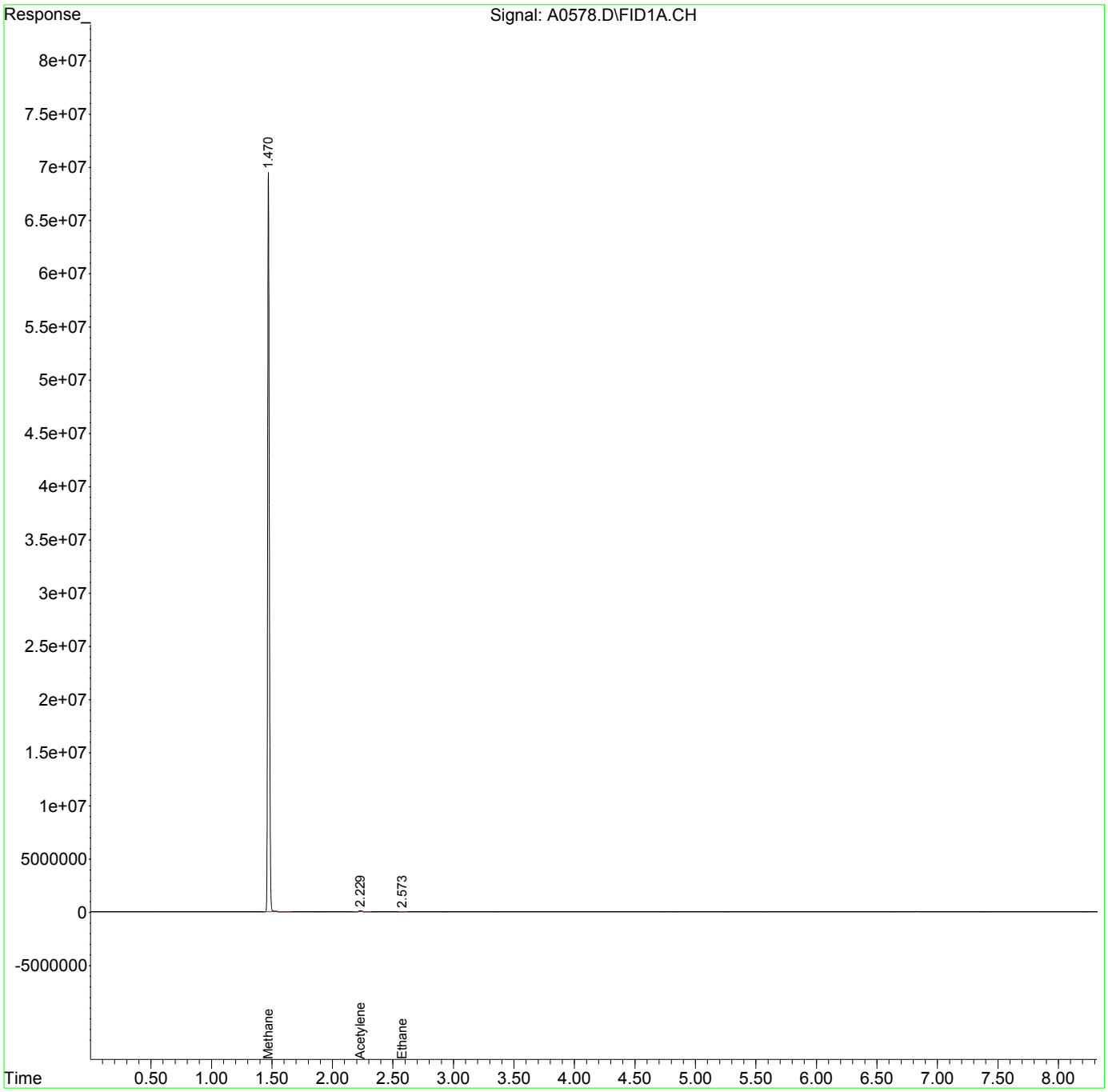
(f)=RT Delta > 1/2 Window (m)=manual int.

1st FN 06/07/24
2nd 06/09/24

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0578.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 4:46 pm
Operator : F.NAEGLER
Sample : R2404674-013
Misc : CEC 979 T4
ALS Vial : 26 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 16:55:15 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0579.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 5:09 pm
Operator : F.NAEGLER
Sample : R2404674-013|100.0
Misc : CEC 979 T4
ALS Vial : 27 Sample Multiplier: 1

DL

Integration File: EVENTS.E
Quant Time: Jun 07 17:17:59 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.474	11761879	197.298	ug/L
2)	Acetylene	0.000	0	N.D.	ug/L
3)	Ethylene	0.000	0	N.D.	ug/L
4)	Ethane	0.000	0	N.D.	ug/L
5)	Propane	0.000	0	N.D.	ug/L

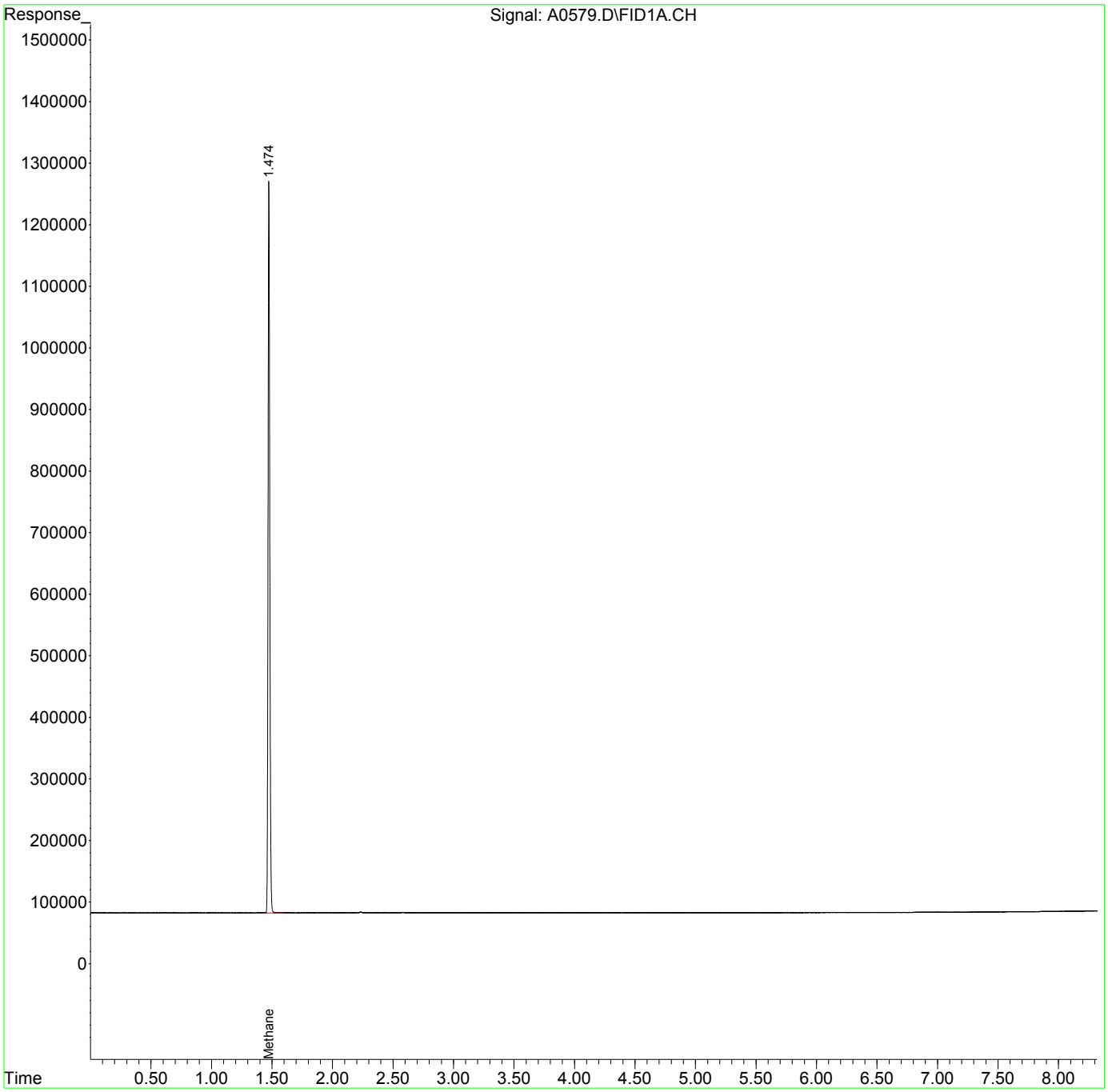
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0579.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 5:09 pm
Operator : F.NAEGLER
Sample : R2404674-013|100.0
Misc : CEC 979 T4
ALS Vial : 27 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 17:17:59 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

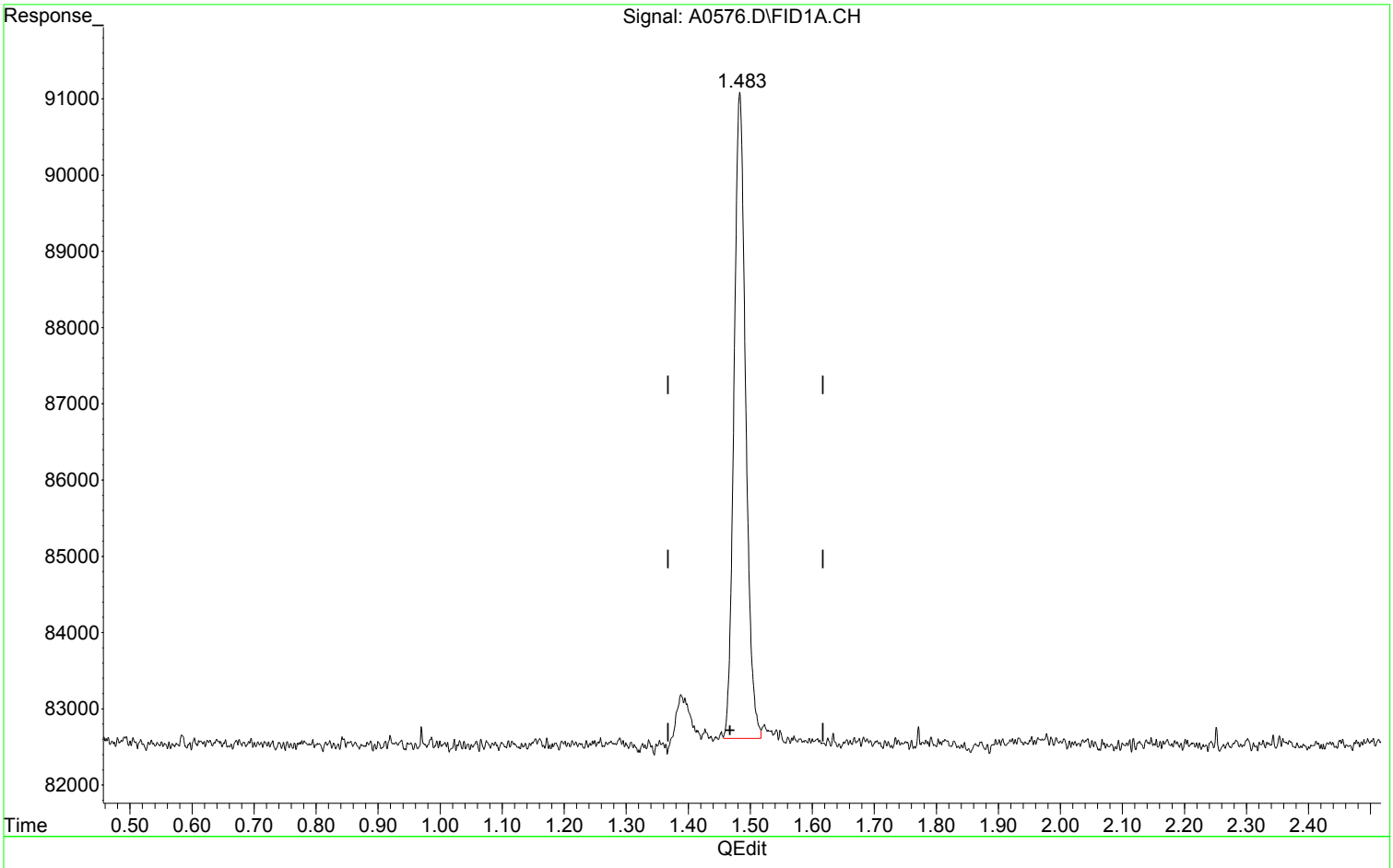


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0576.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 4:22 pm
Operator : F.NAEGLER
Sample : R2404674-014
Misc : CEC 979 T4
ALS Vial : 24 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 16:31:37 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.483min 1.850 ug/L m

response 110296

Manual Integration:

After

Peak not found.

06/07/24

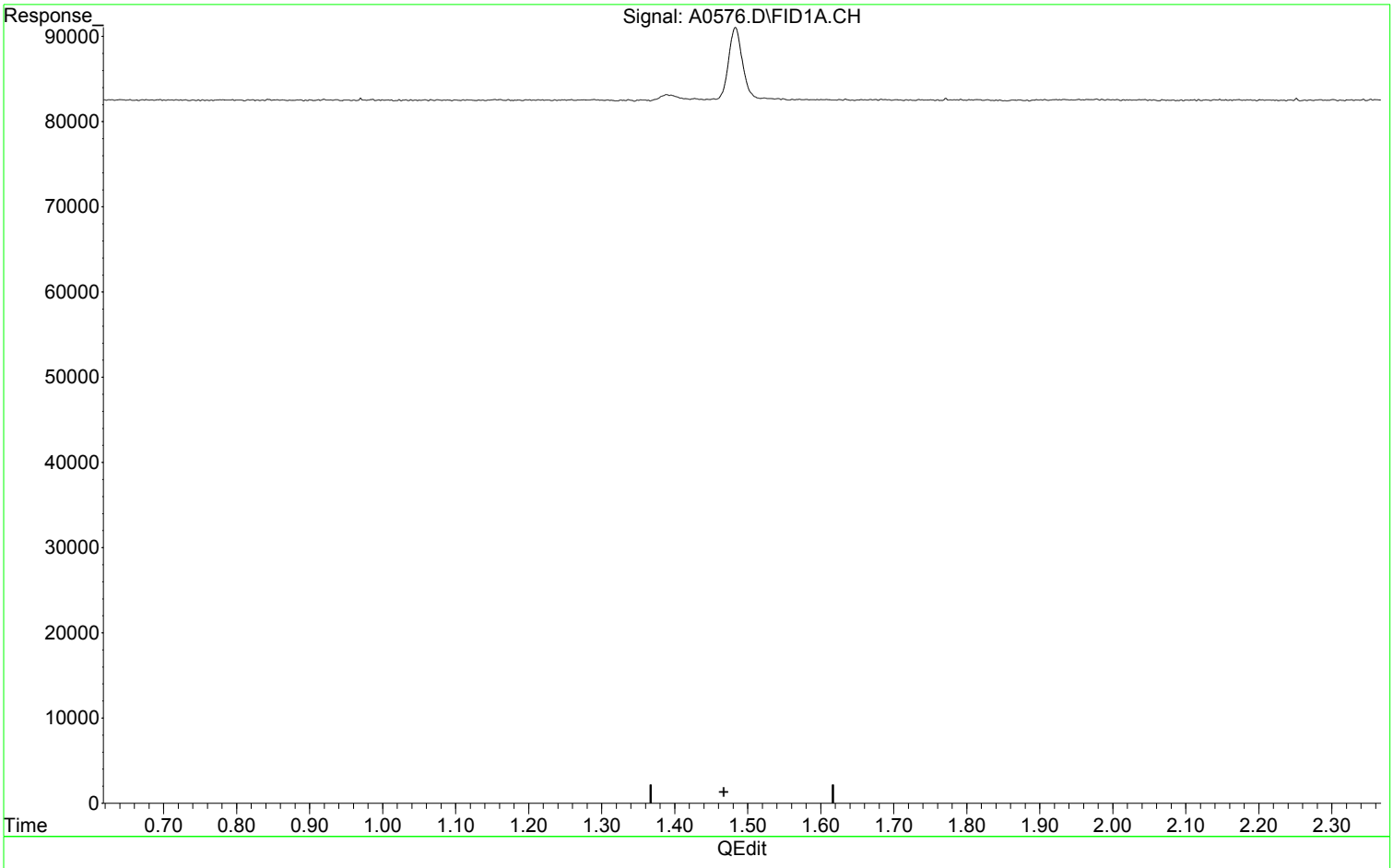
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0576.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 4:22 pm
Operator : F.NAEGLER
Sample : R2404674-014
Misc : CEC 979 T4
ALS Vial : 24 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 16:31:37 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.467min 0.000 ug/L

response 0

Manual Integration:

Before

06/07/24

(+) = Expected Retention Time

RSK050224.M Fri Jun 07 16:31:46 2024 Page: 1

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0576.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 4:22 pm
Operator : F.NAEGLER
Sample : R2404674-014
Misc : CEC 979 T4
ALS Vial : 24 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 16:31:37 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.483	110296	1.850	ug/L	m
2)	Acetylene	0.000	0	N.D.	ug/L	
3)	Ethylene	0.000	0	N.D.	ug/L	
4)	Ethane	0.000	0	N.D.	ug/L	
5)	Propane	0.000	0	N.D.	ug/L	

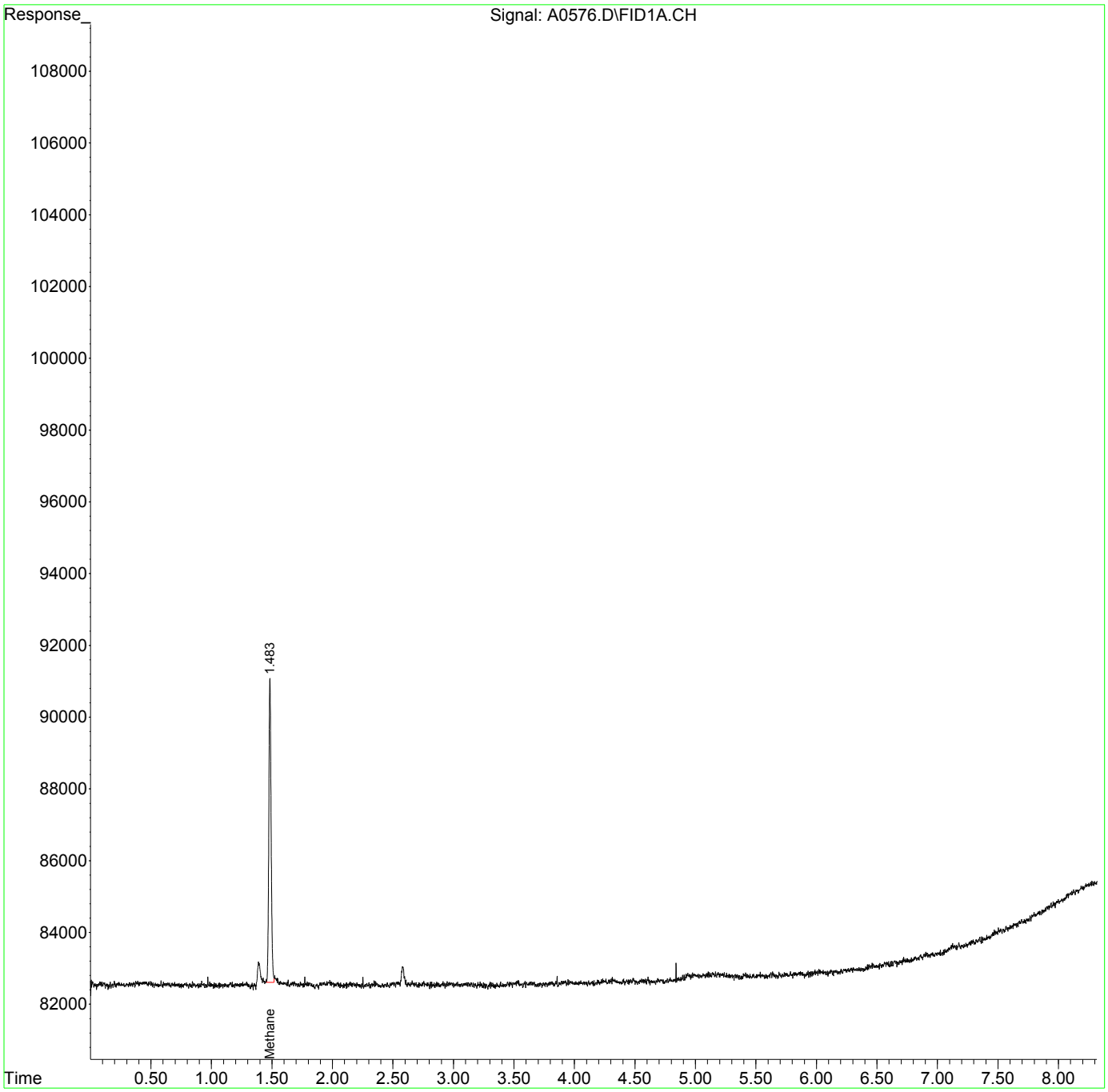
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0576.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 4:22 pm
Operator : F.NAEGLER
Sample : R2404674-014
Misc : CEC 979 T4
ALS Vial : 24 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 16:31:37 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

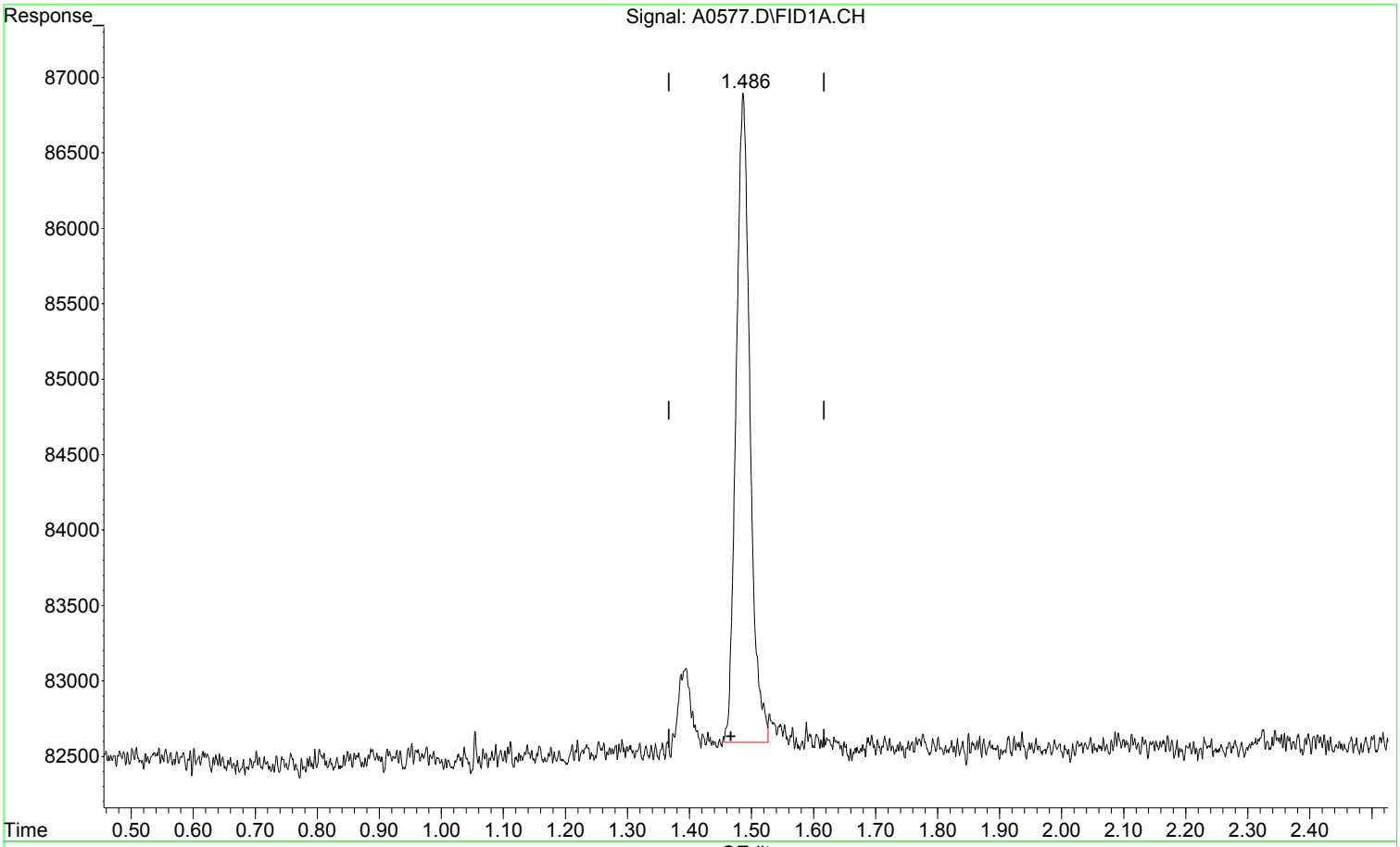


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0577.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 4:33 pm
Operator : F.NAEGLER
Sample : R2404674-016
Misc : CEC 979 T4
ALS Vial : 25 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 16:42:36 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.486min 1.116 ug/L m

response 66508

Manual Integration:

After

Peak not found.

06/07/24

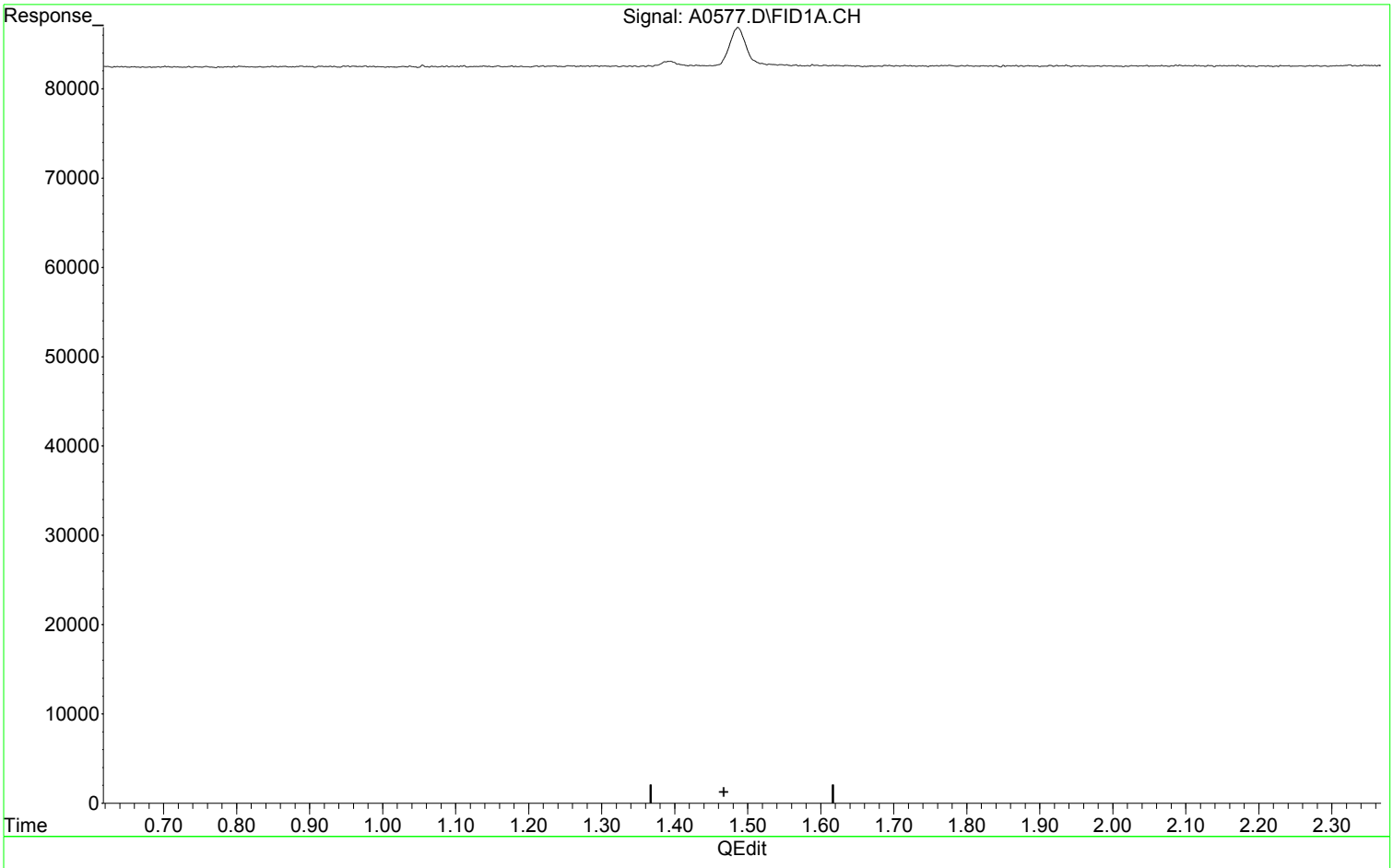
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0577.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 4:33 pm
Operator : F.NAEGLER
Sample : R2404674-016
Misc : CEC 979 T4
ALS Vial : 25 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 16:42:36 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.467min 0.000 ug/L

response 0

Manual Integration:

Before

06/07/24

(+) = Expected Retention Time

1st FJ 06/07/24
2nd 06/09/24

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0577.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 4:33 pm
Operator : F.NAEGLER
Sample : R2404674-016
Misc : CEC 979 T4
ALS Vial : 25 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 16:42:36 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.486	66508	1.116	ug/L m
2)	Acetylene	0.000	0	N.D.	ug/L
3)	Ethylene	0.000	0	N.D.	ug/L
4)	Ethane	0.000	0	N.D.	ug/L
5)	Propane	0.000	0	N.D.	ug/L

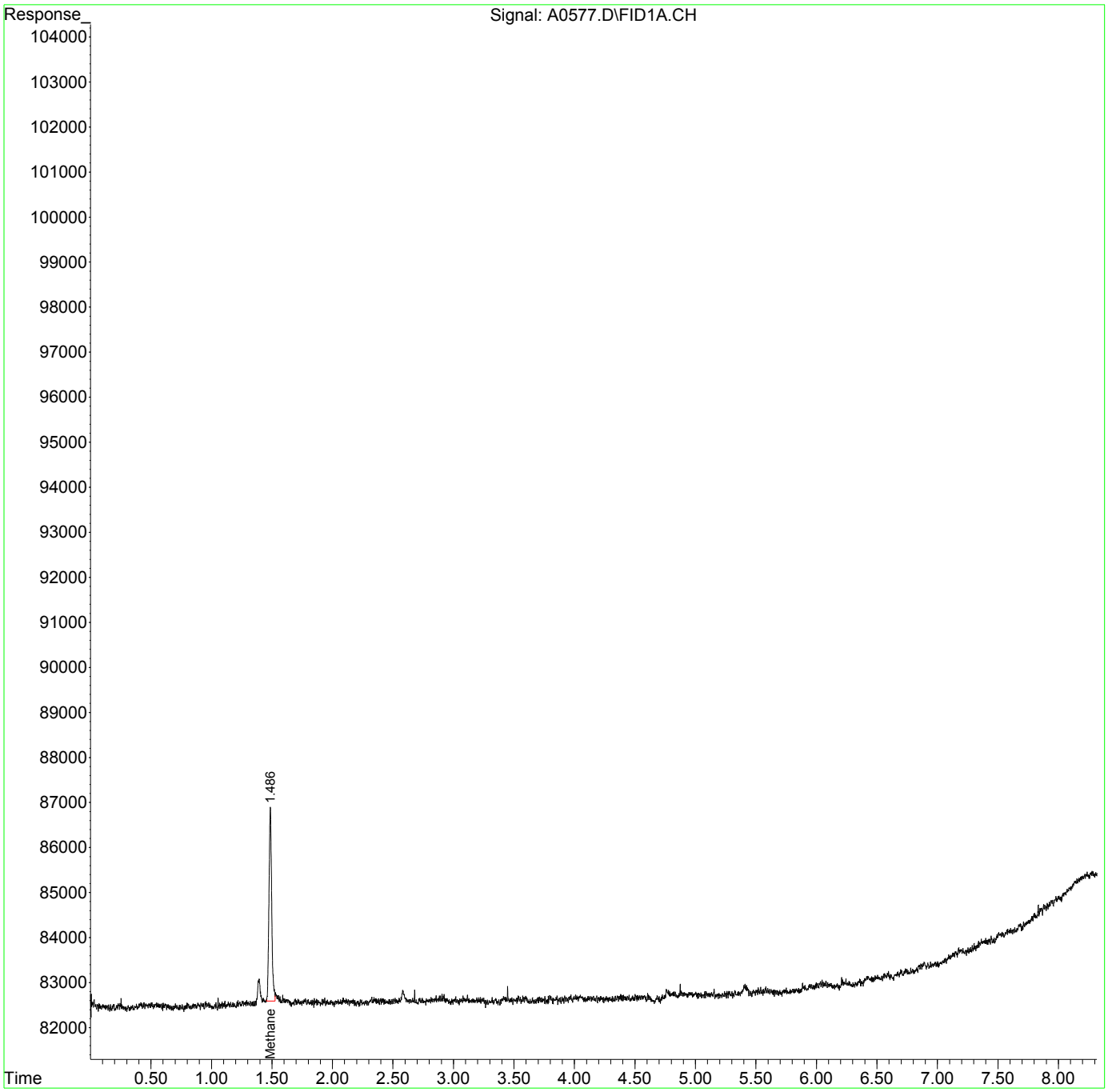
(f)=RT Delta > 1/2 Window (m)=manual int.

1st FN 06/07/24
2nd 06/09/24

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0577.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 4:33 pm
Operator : F.NAEGLER
Sample : R2404674-016
Misc : CEC 979 T4
ALS Vial : 25 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 16:42:36 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



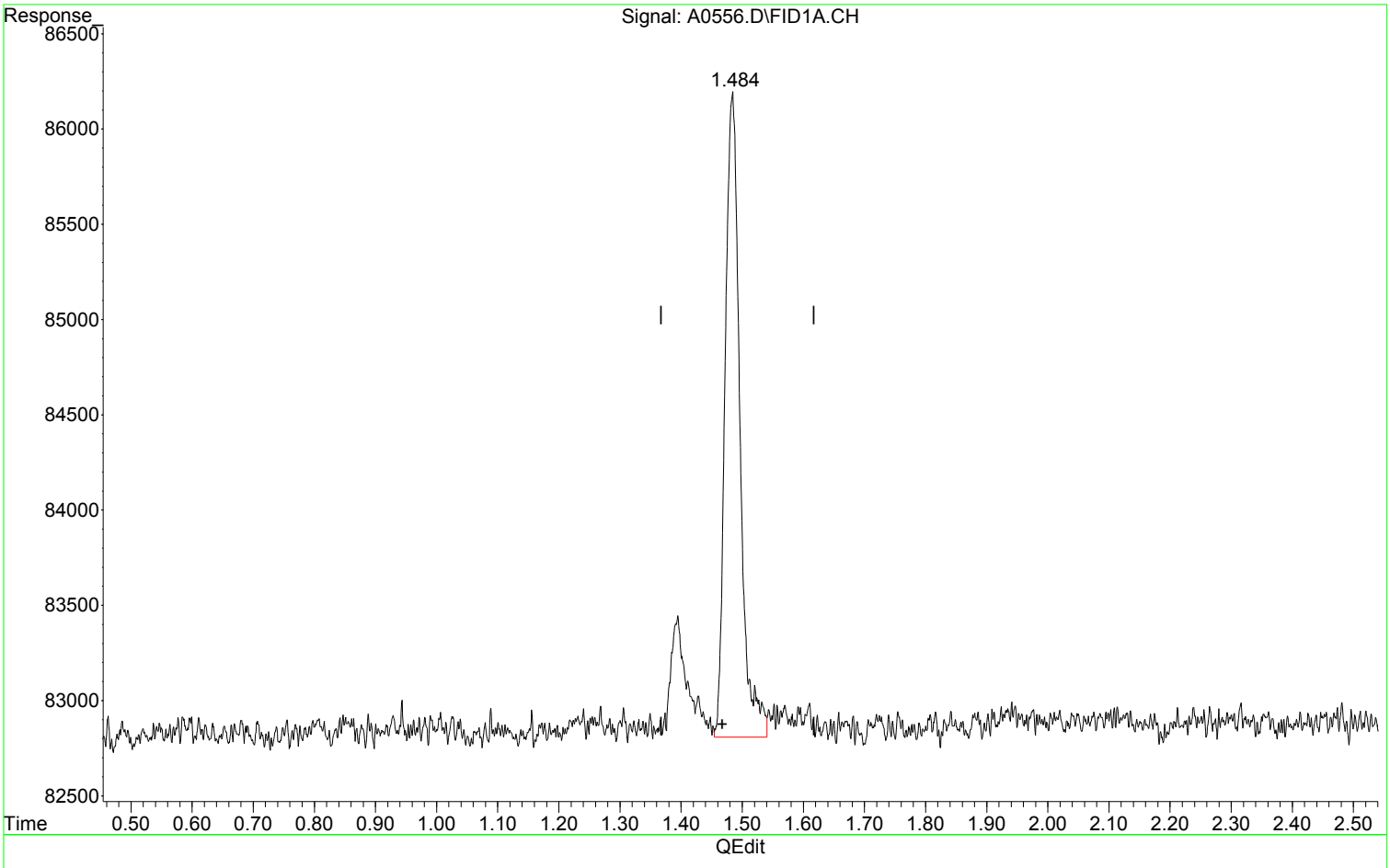
1st FN 06/07/24
2nd 06/09/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0556.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 11:15 am
Operator : F.NAEGLER
Sample : MBLK
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 11:27:16 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.484min 0.955 ug/L m

response 56950

Manual Integration:

After

Peak not found.

06/07/24

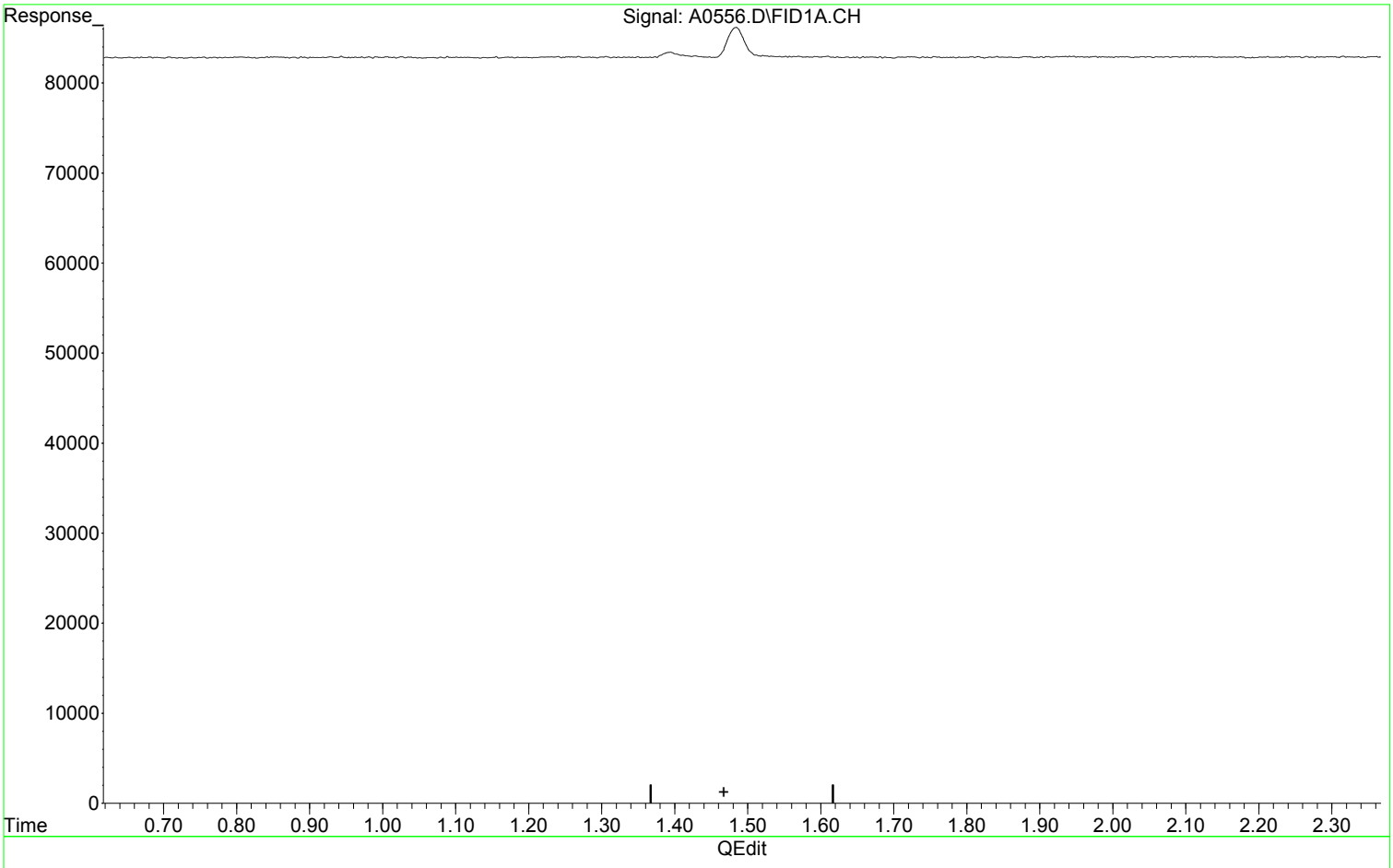
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0556.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 11:15 am
Operator : F.NAEGLER
Sample : MBLK
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 11:27:16 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.467min 0.000 ug/L

response 0

Manual Integration:

Before

06/07/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0556.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 11:15 am
Operator : F.NAEGLER
Sample : MBLK
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 11:27:16 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.484	56950	0.955	ug/L	m
2)	Acetylene	0.000	0	N.D.	ug/L	
3)	Ethylene	0.000	0	N.D.	ug/L	
4)	Ethane	0.000	0	N.D.	ug/L	
5)	Propane	0.000	0	N.D.	ug/L	

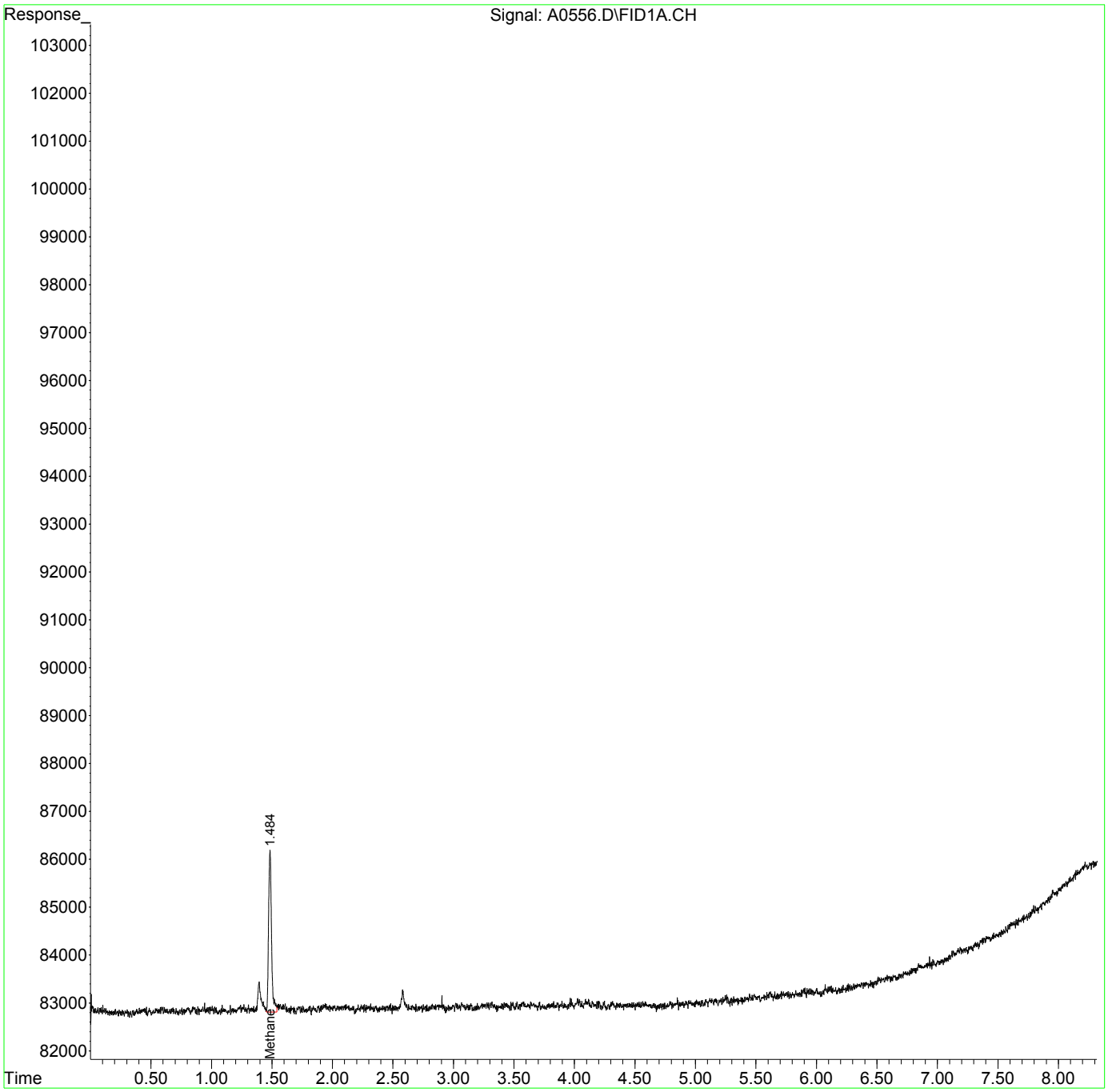
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0556.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 11:15 am
Operator : F.NAEGLER
Sample : MBLK
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 11:27:16 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0557.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 11:29 am
Operator : F.NAEGLER
Sample : LCS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 11:38:19 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.476	7505997	125.908 ug/L
2)	Acetylene	2.234	6133272	263.183 ug/L
3)	Ethylene	2.428	5175910	125.177 ug/L
4)	Ethane	2.576	7408890	136.938 ug/L
5)	Propane	5.246	7613982	132.420 ug/L

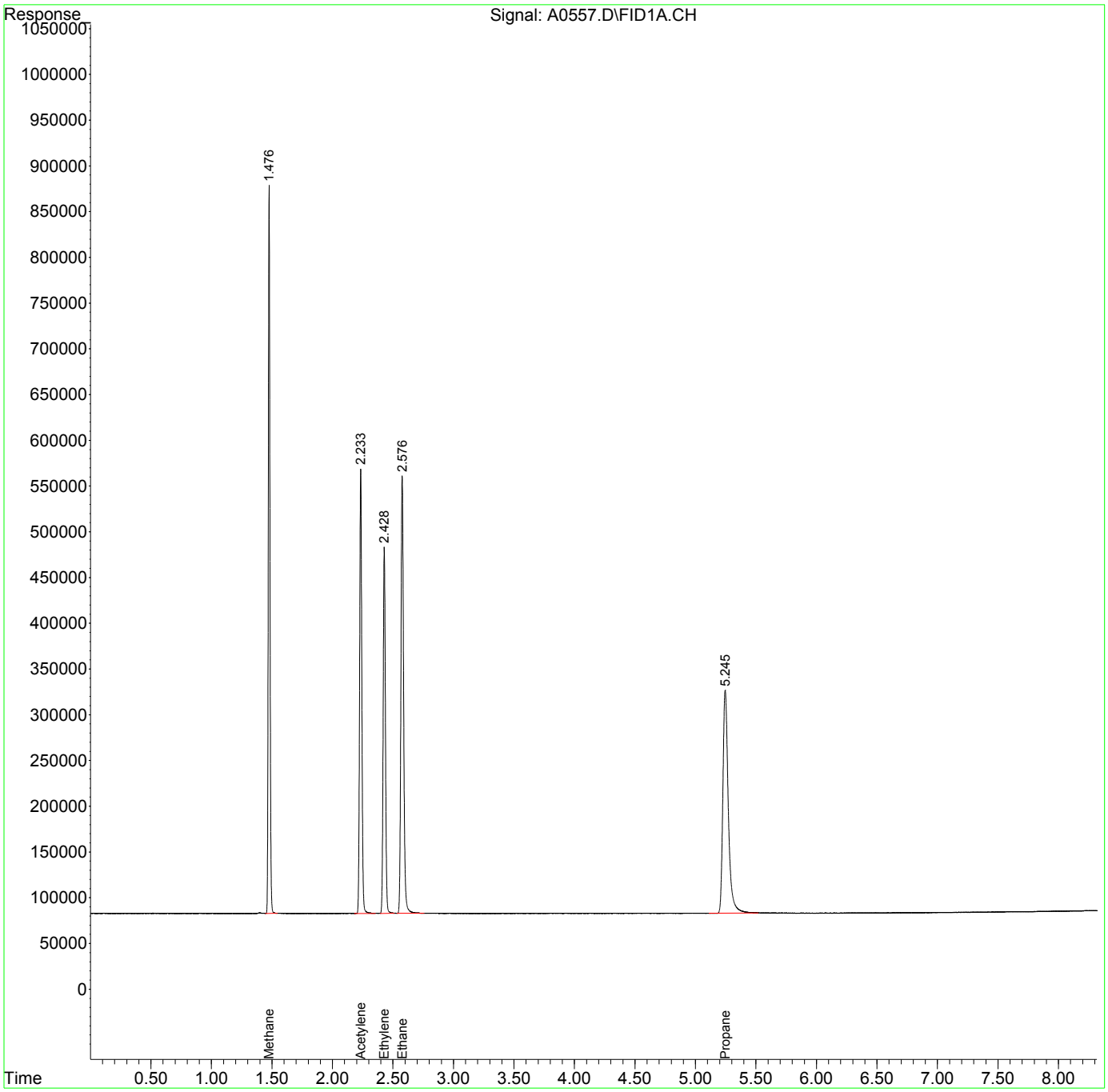
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0557.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 11:29 am
Operator : F.NAEGLER
Sample : LCS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 11:38:19 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0572.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 3:33 pm
Operator : F.NAEGLER
Sample : R2404674-011MS|2.0
Misc : CEC 979 T4
ALS Vial : 20 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 15:42:50 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.475	31096457	521.622 ug/L
2)	Acetylene	2.232	5701871	244.671 ug/L
3)	Ethylene	2.426	5324108	128.761 ug/L
4)	Ethane	2.574	6742267	124.617 ug/L
5)	Propane	5.240	6973737	121.285 ug/L

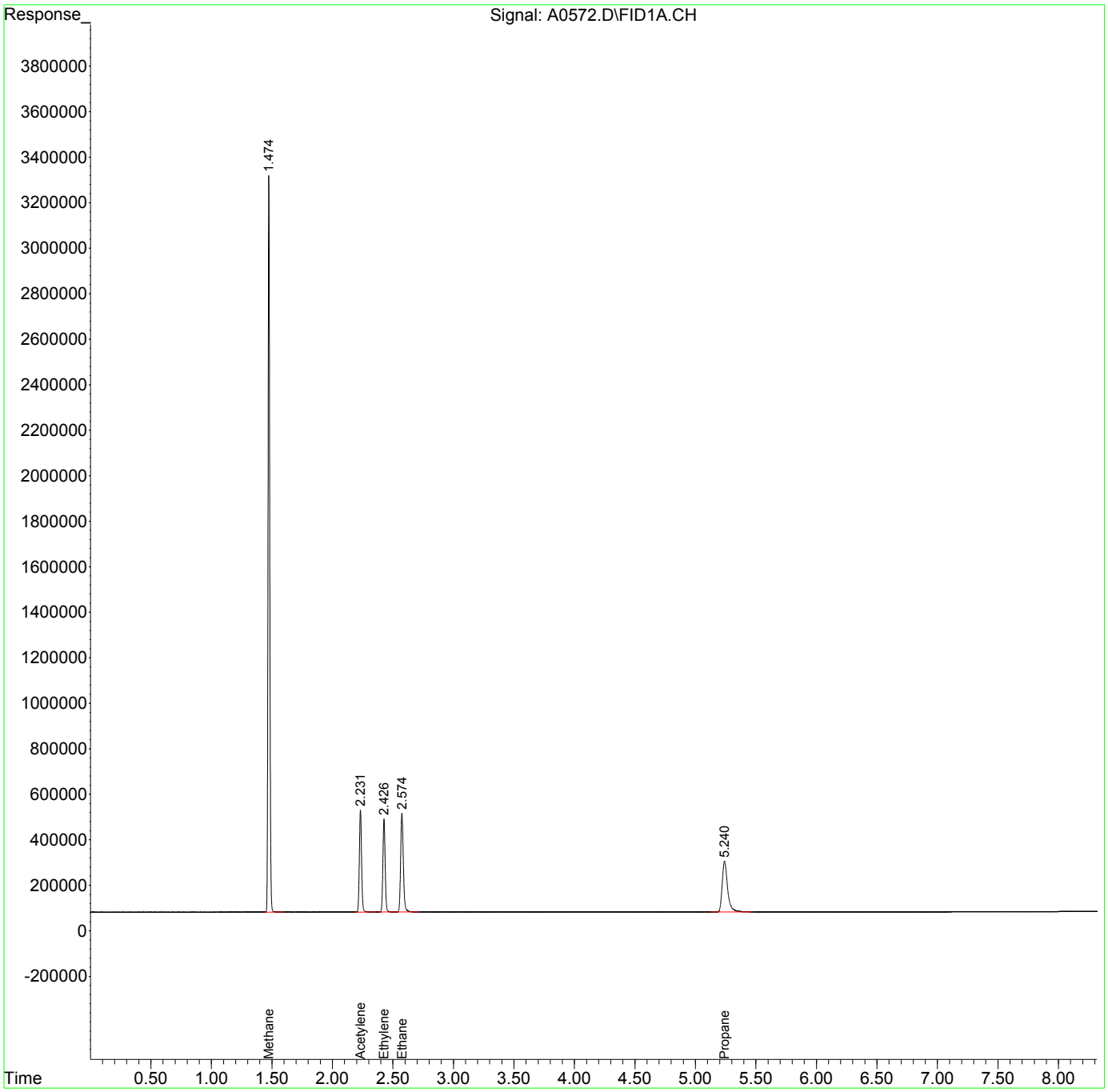
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0572.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 3:33 pm
Operator : F.NAEGLER
Sample : R2404674-011MS|2.0
Misc : CEC 979 T4
ALS Vial : 20 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 15:42:50 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0573.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 3:45 pm
Operator : F.NAEGLER
Sample : R2404674-011DMS|2.0
Misc : CEC 979 T4
ALS Vial : 21 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 15:54:29 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.474	30343363	508.989 ug/L
2)	Acetylene	2.231	5582426	239.546 ug/L
3)	Ethylene	2.426	5211345	126.034 ug/L
4)	Ethane	2.574	6593422	121.866 ug/L
5)	Propane	5.242	6791429	118.114 ug/L

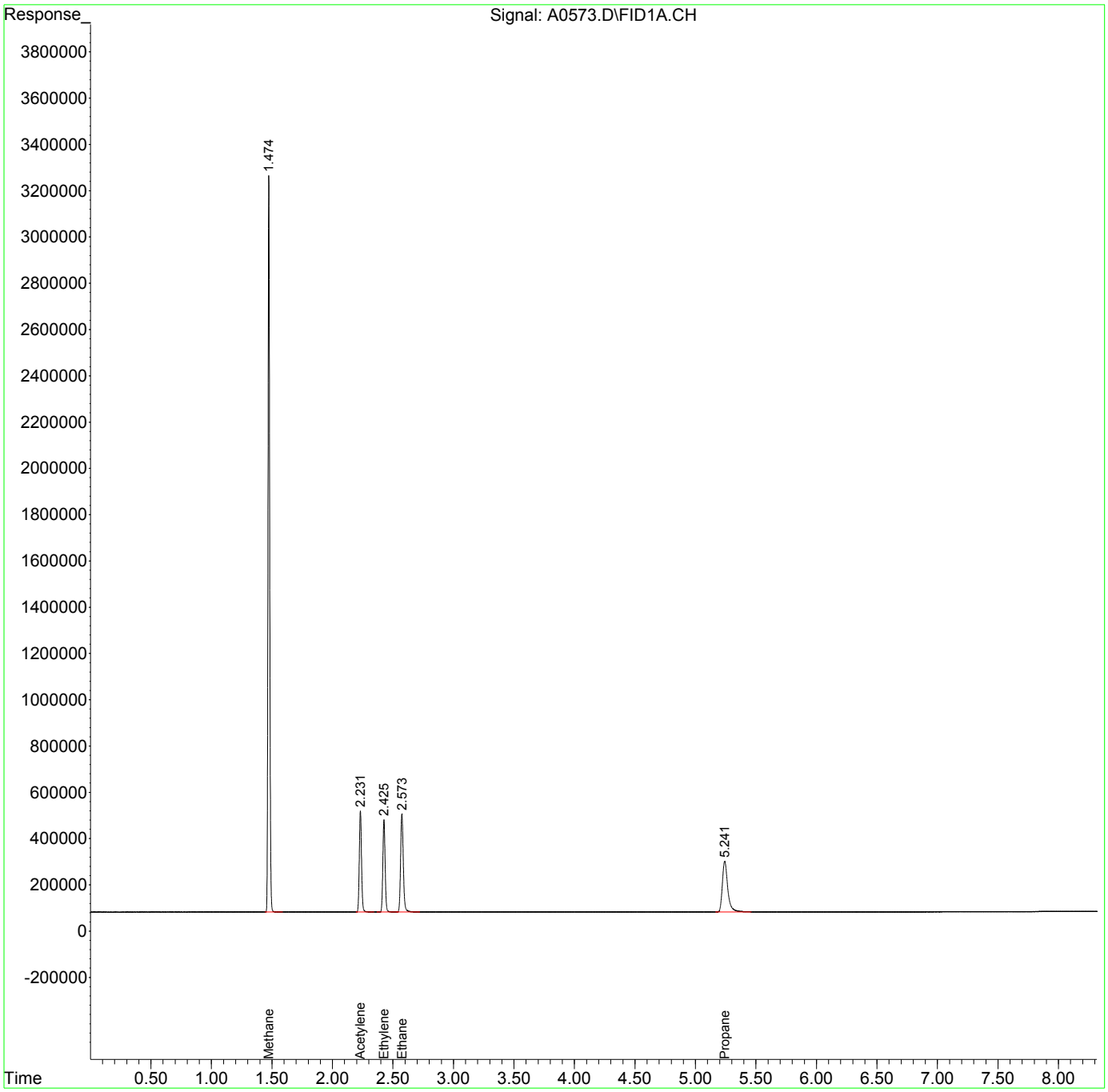
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0573.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 3:45 pm
Operator : F.NAEGLER
Sample : R2404674-011DMS|2.0
Misc : CEC 979 T4
ALS Vial : 21 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 15:54:29 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0555.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 11:03 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 11:12:53 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Methane	262.300	261.496	0.3	111	0.00
2	Acetylene	500.600	544.974	-8.9	108	0.01
3	Ethylene	242.800	275.427	-13.4	107	0.01
4	Ethane	260.300	284.383	-9.3	109	0.01
5	Propane	254.500	277.849	-9.2	109	0.01

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0555.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 11:03 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 11:12:53 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.477	15589088	261.496 ug/L
2)	Acetylene	2.234	12700177	544.974 ug/L
3)	Ethylene	2.429	11388524	275.427 ug/L
4)	Ethane	2.577	15386233	284.383 ug/L
5)	Propane	5.247	15976045	277.849 ug/L

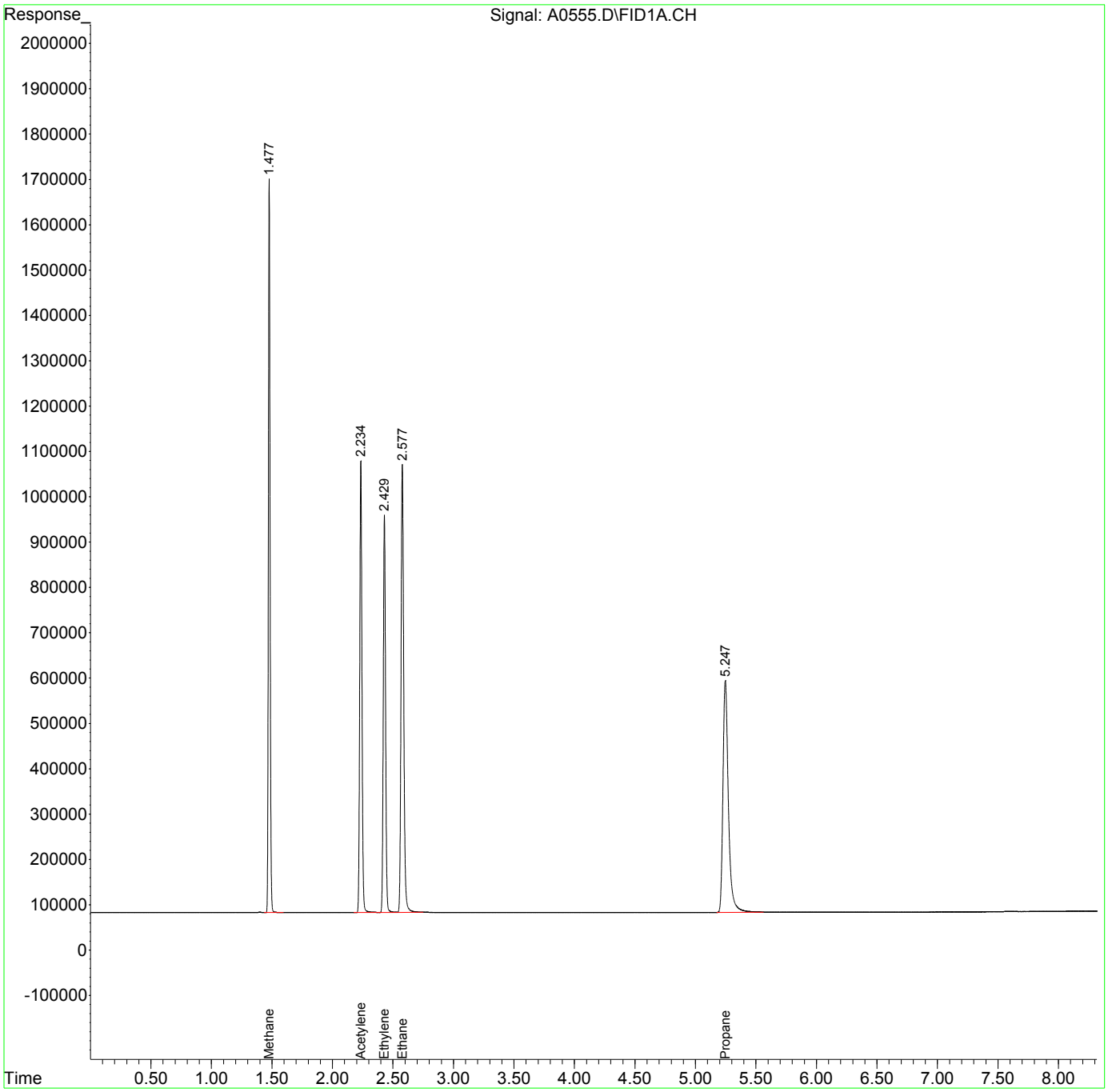
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0555.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 11:03 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 11:12:53 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0568.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 2:47 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 14:56:12 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Methane	262.300	253.892	3.2	108	0.00
2	Acetylene	500.600	526.355	-5.1	104	0.00
3	Ethylene	242.800	268.802	-10.7	105	0.00
4	Ethane	260.300	274.378	-5.4	106	0.00
5	Propane	254.500	267.632	-5.2	105	0.00

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0568.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 2:47 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 14:56:12 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.474	15135735	253.892 ug/L
2)	Acetylene	2.231	12266279	526.355 ug/L
3)	Ethylene	2.426	11114577	268.802 ug/L
4)	Ethane	2.574	14844923	274.378 ug/L
5)	Propane	5.242	15388565	267.632 ug/L

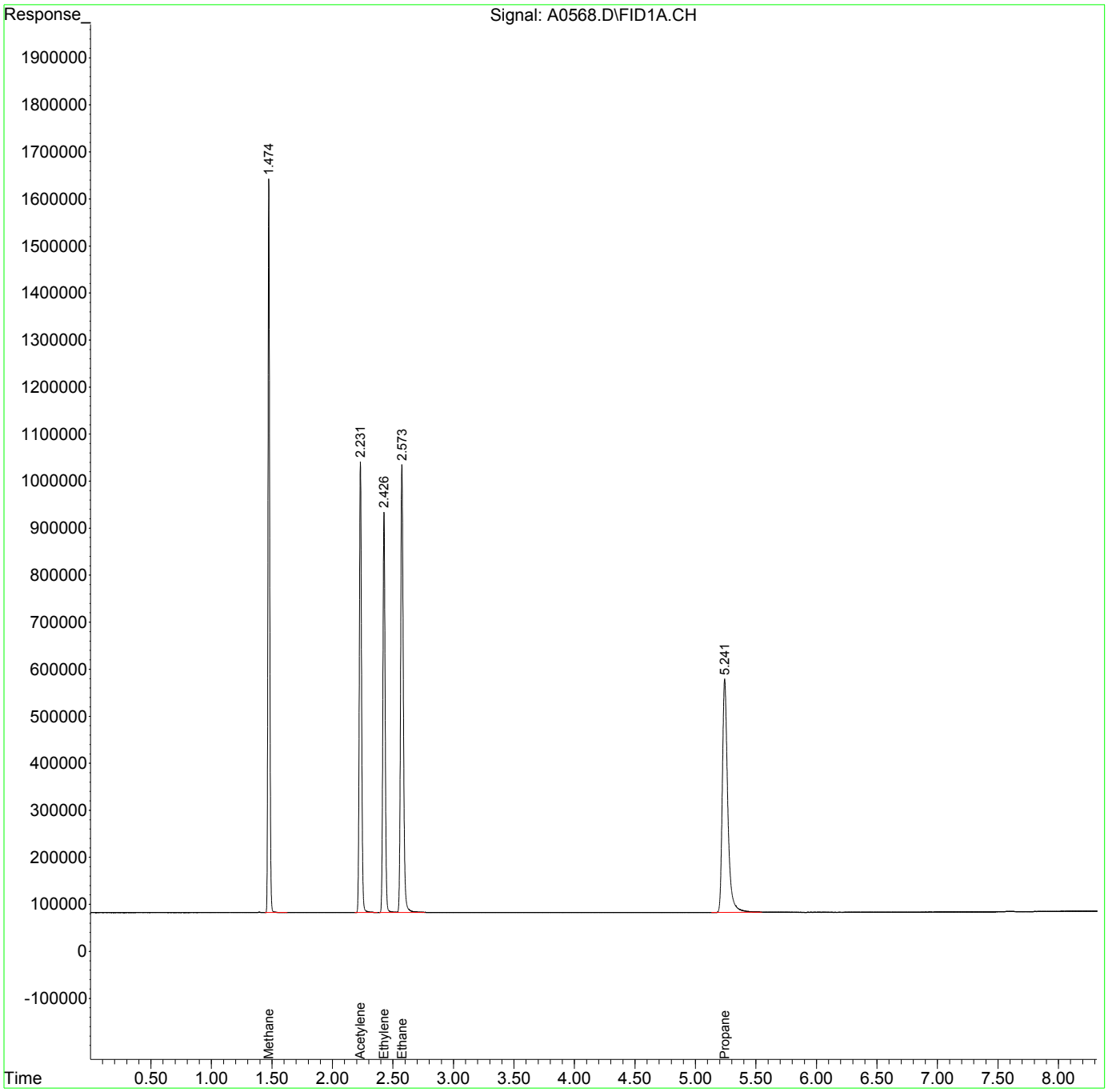
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0568.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 2:47 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 14:56:12 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0580.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 5:20 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 17:29:36 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Methane	262.300	237.051	9.6	101	0.00
2	Acetylene	500.600	496.219	0.9	98	0.00
3	Ethylene	242.800	255.417	-5.2	99	0.00
4	Ethane	260.300	258.265	0.8	99	0.00
5	Propane	254.500	252.668	0.7	99	0.00

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0580.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 5:20 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 17:29:36 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.472	14131799	237.051 ug/L
2)	Acetylene	2.229	11563981	496.219 ug/L
3)	Ethylene	2.424	10561134	255.417 ug/L
4)	Ethane	2.572	13973125	258.265 ug/L
5)	Propane	5.241	14528119	252.668 ug/L

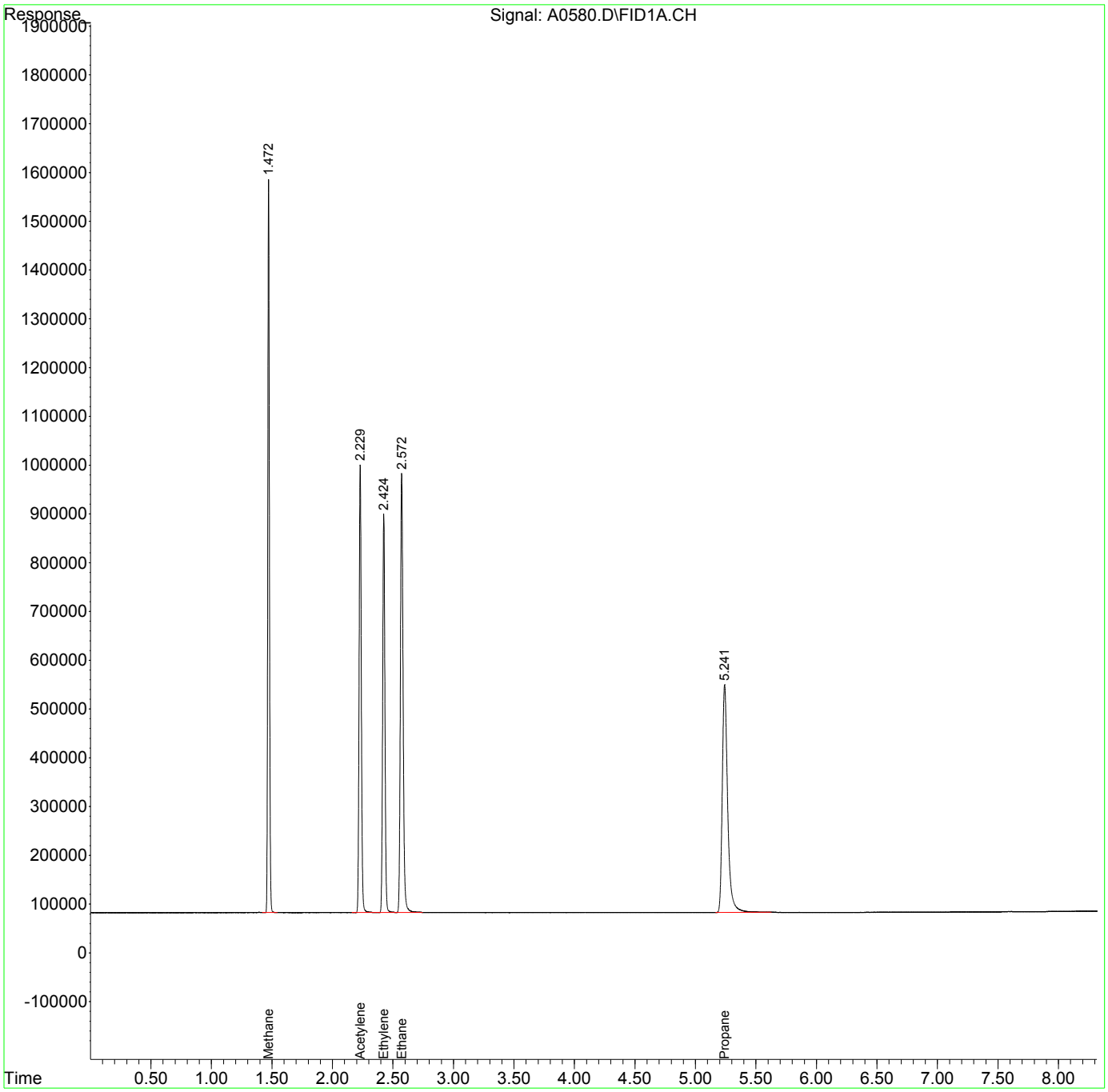
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\060724\
Data File : A0580.D
Signal(s) : FID1A.CH
Acq On : 07 Jun 2024 5:20 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Jun 07 17:29:36 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0499.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 4:17 pm
Operator : F.NAEGLER
Sample : 250 PPB ICV
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:27:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.468	14308021	240.007 ug/L
2)	Acetylene	2.223	12099466	519.197 ug/L
3)	Ethylene	2.418	10483009	253.528 ug/L
4)	Ethane	2.566	14471962	267.485 ug/L
5)	Propane	5.234	15066997	262.040 ug/L

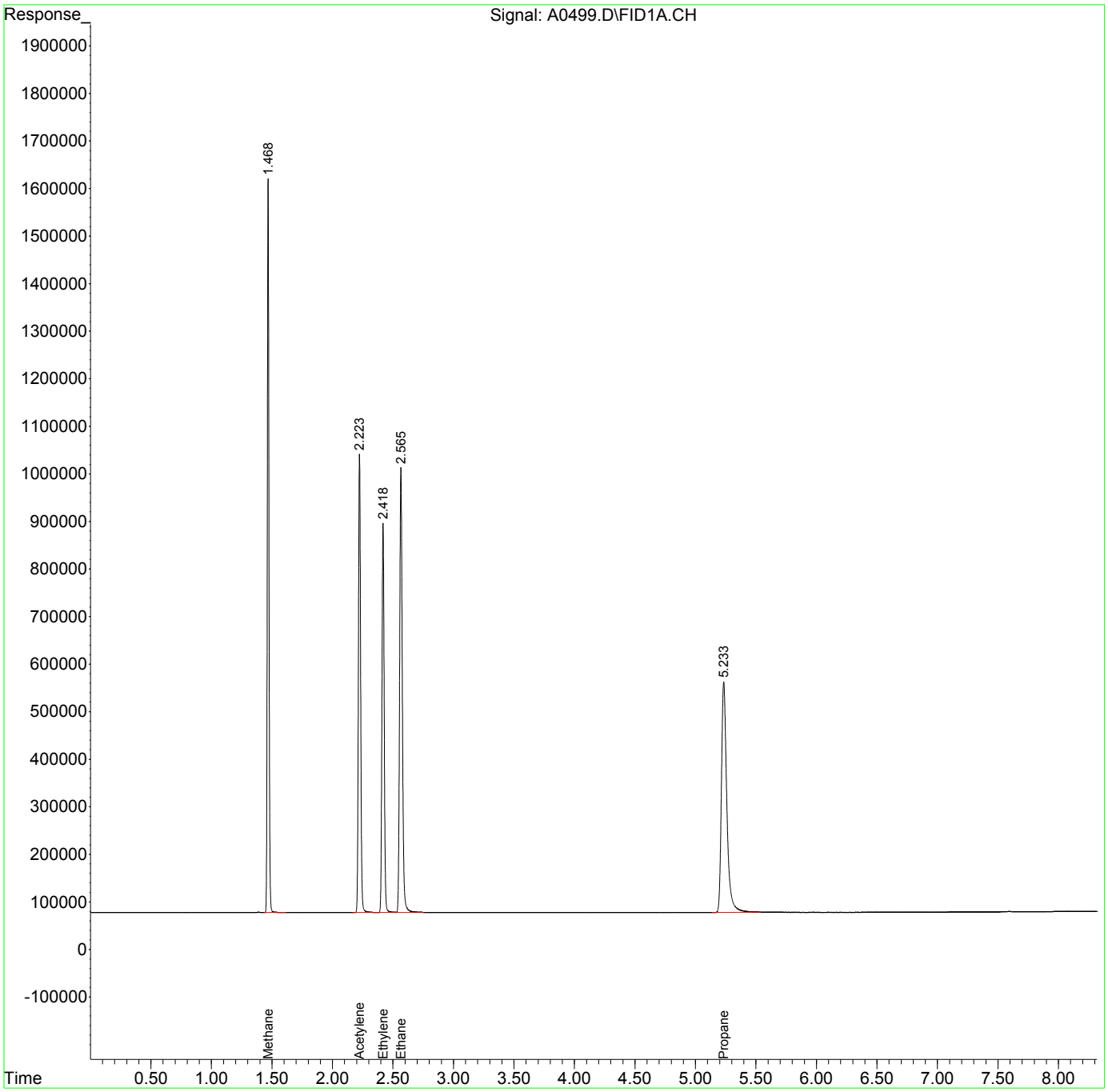
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0499.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 4:17 pm
Operator : F.NAEGLER
Sample : 250 PPB ICV
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:27:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

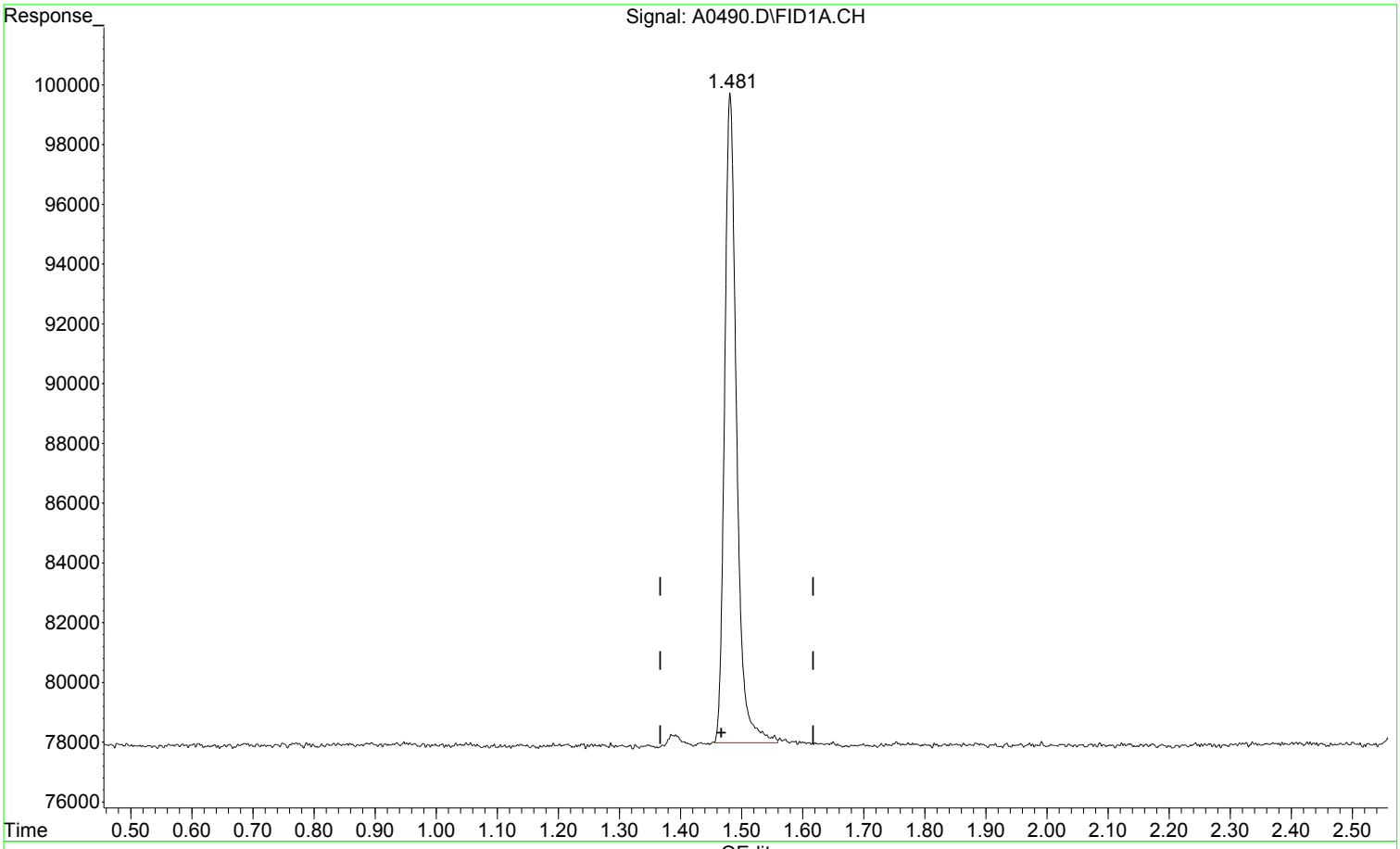


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.481min 4.971 ug/L m

response 296341

Manual Integration:

After

Peak not found.

05/02/24

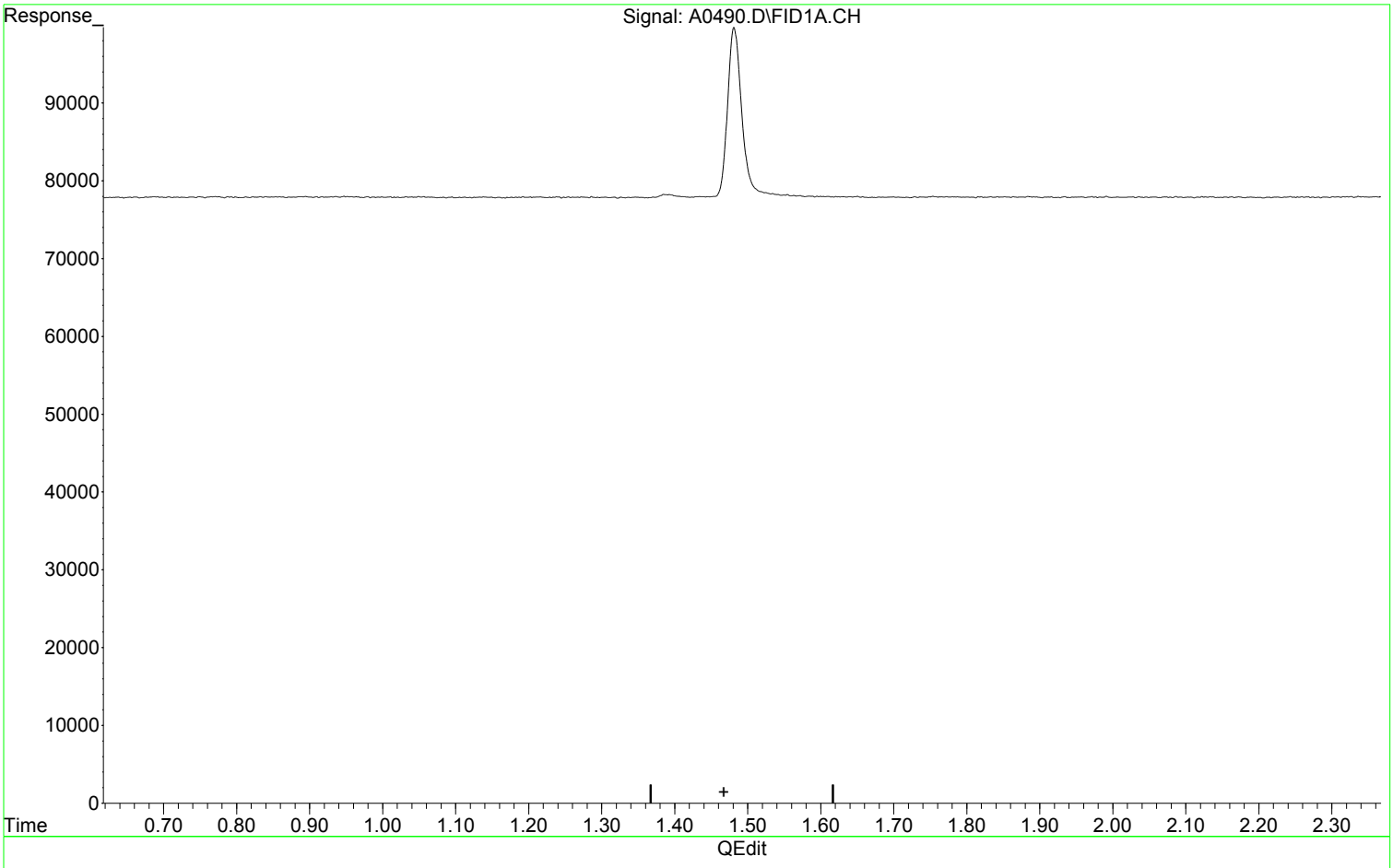
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.467min 0.000 ug/L

response 0

Manual Integration:

Before

05/02/24

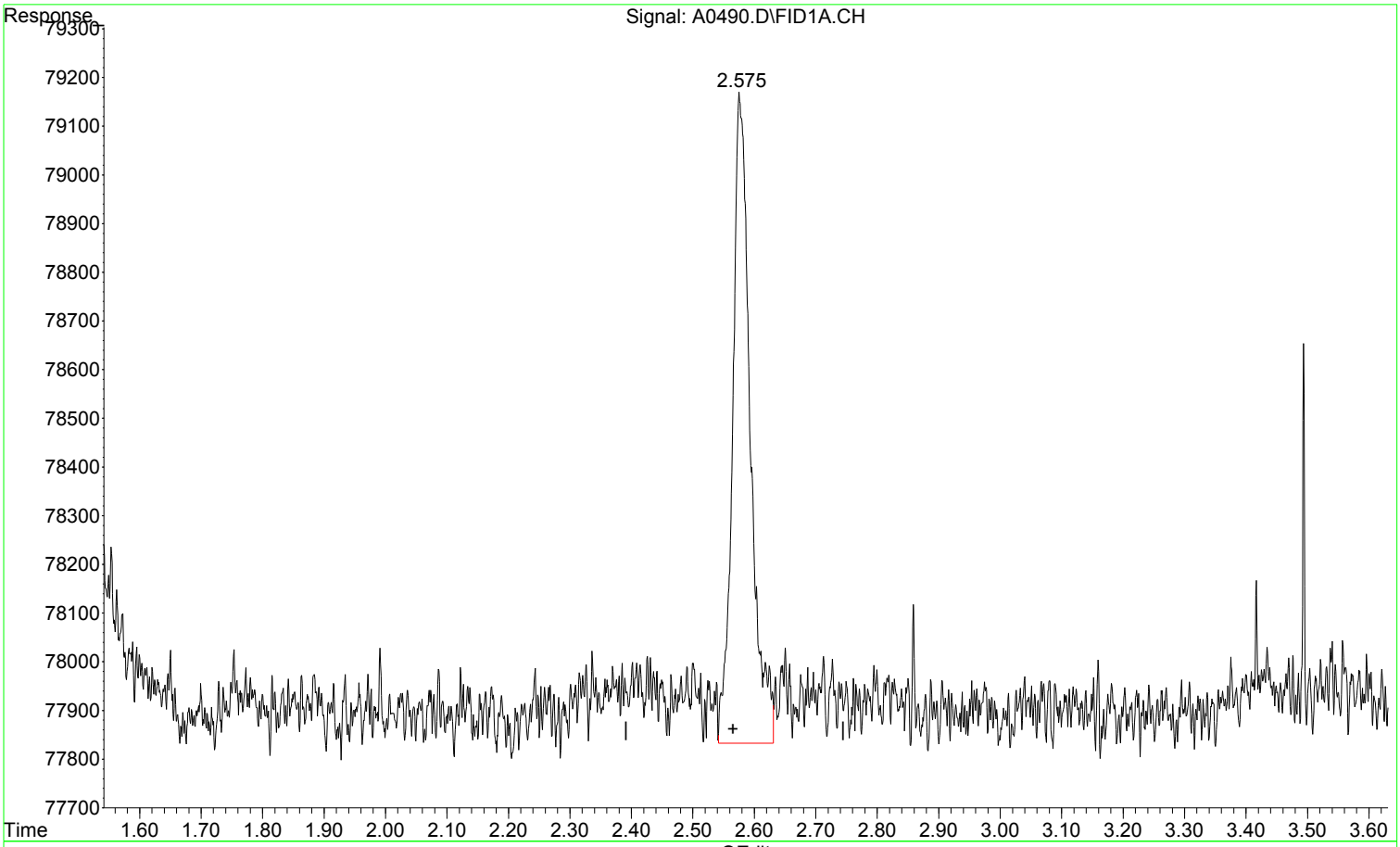
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane

2.575min 0.496 ug/L m

response 26859

Manual Integration:

After

Peak not found.

05/02/24

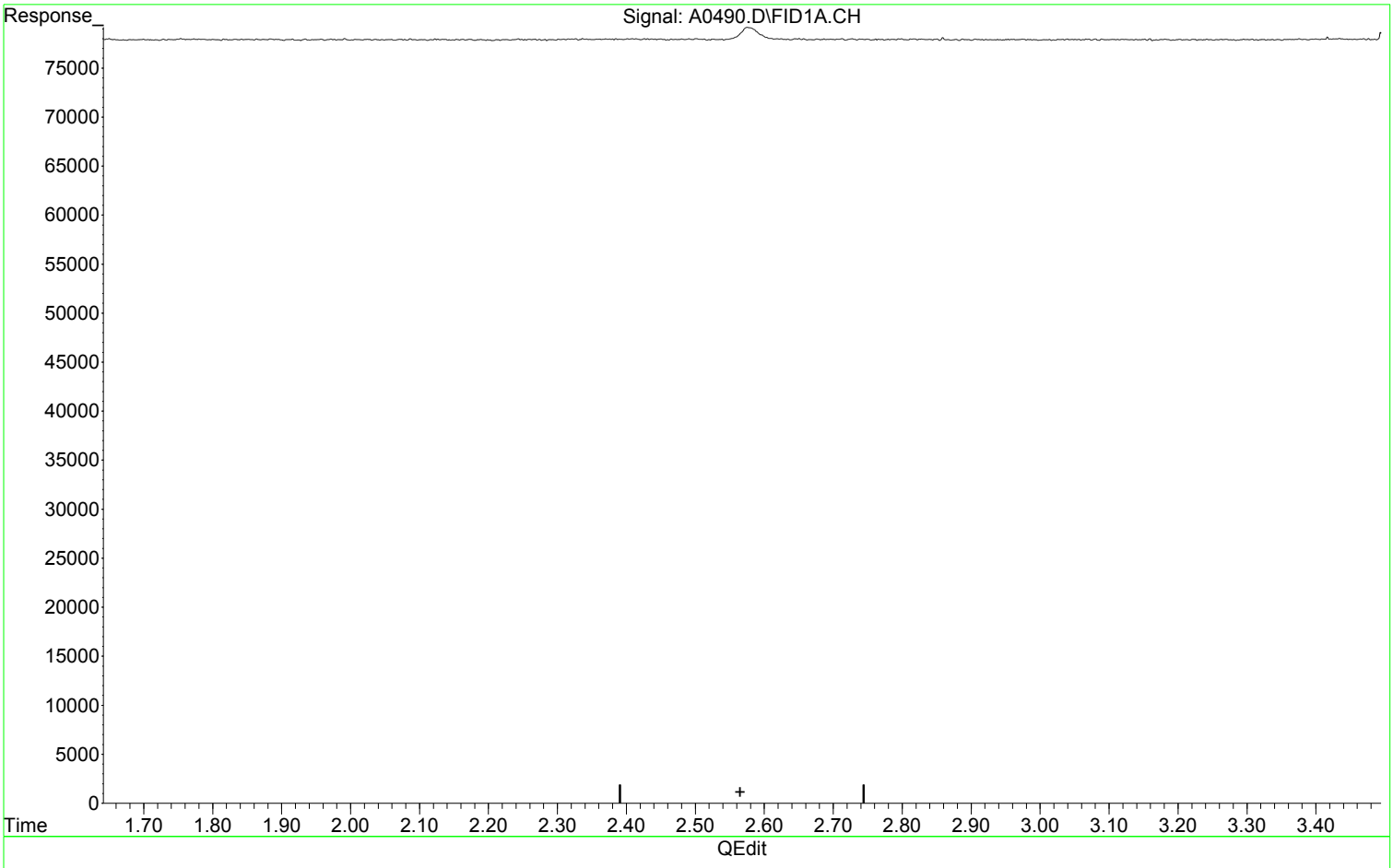
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane

2.565min 0.000 ug/L

response 0

Manual Integration:

Before

05/02/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.481	296341	4.971 ug/L m
2)	Acetylene	0.000	0	N.D. ug/L
3)	Ethylene	0.000	0	N.D. ug/L
4)	Ethane	2.575	26859	0.496 ug/L m
5)	Propane	0.000	0	N.D. ug/L

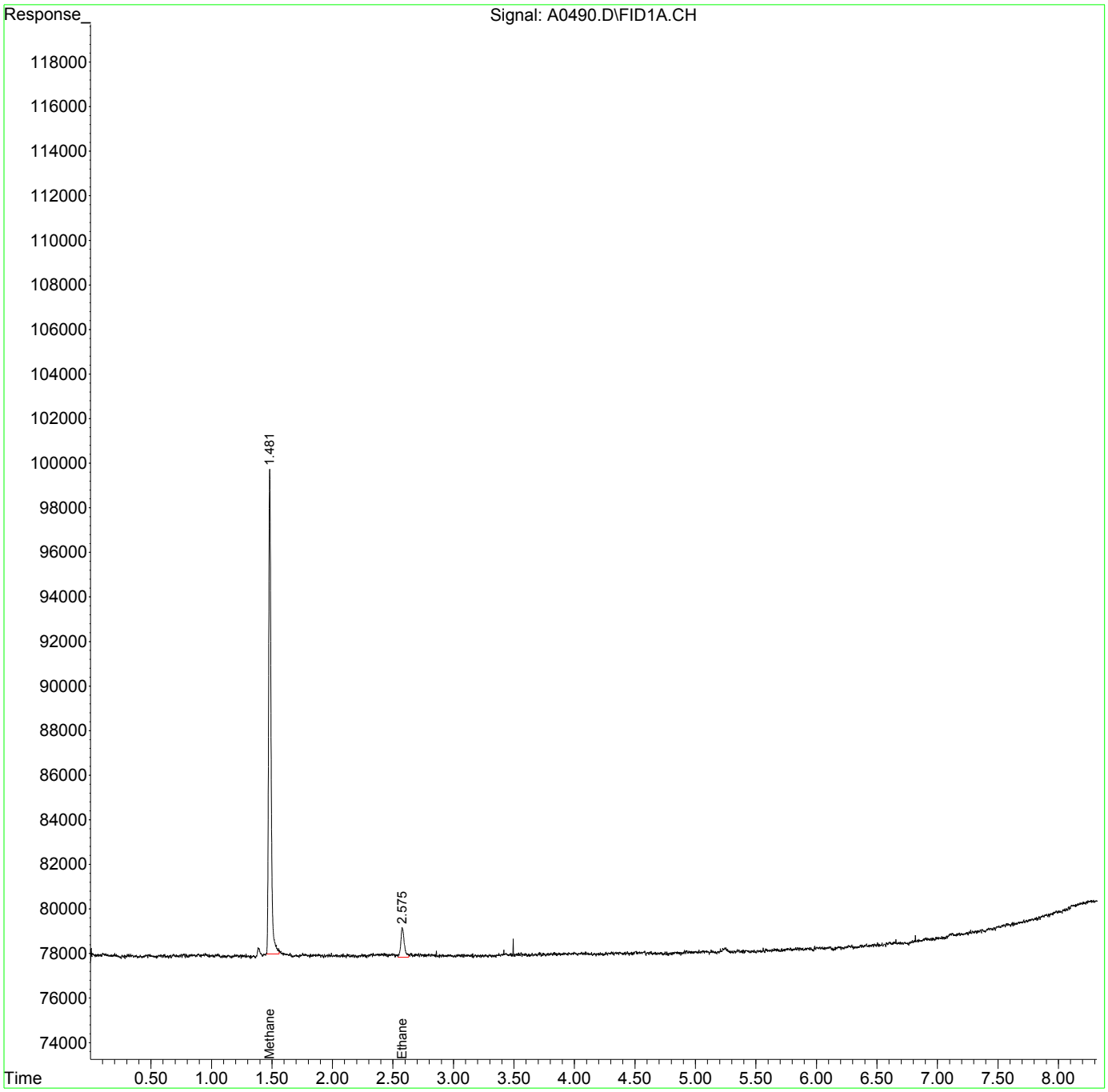
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



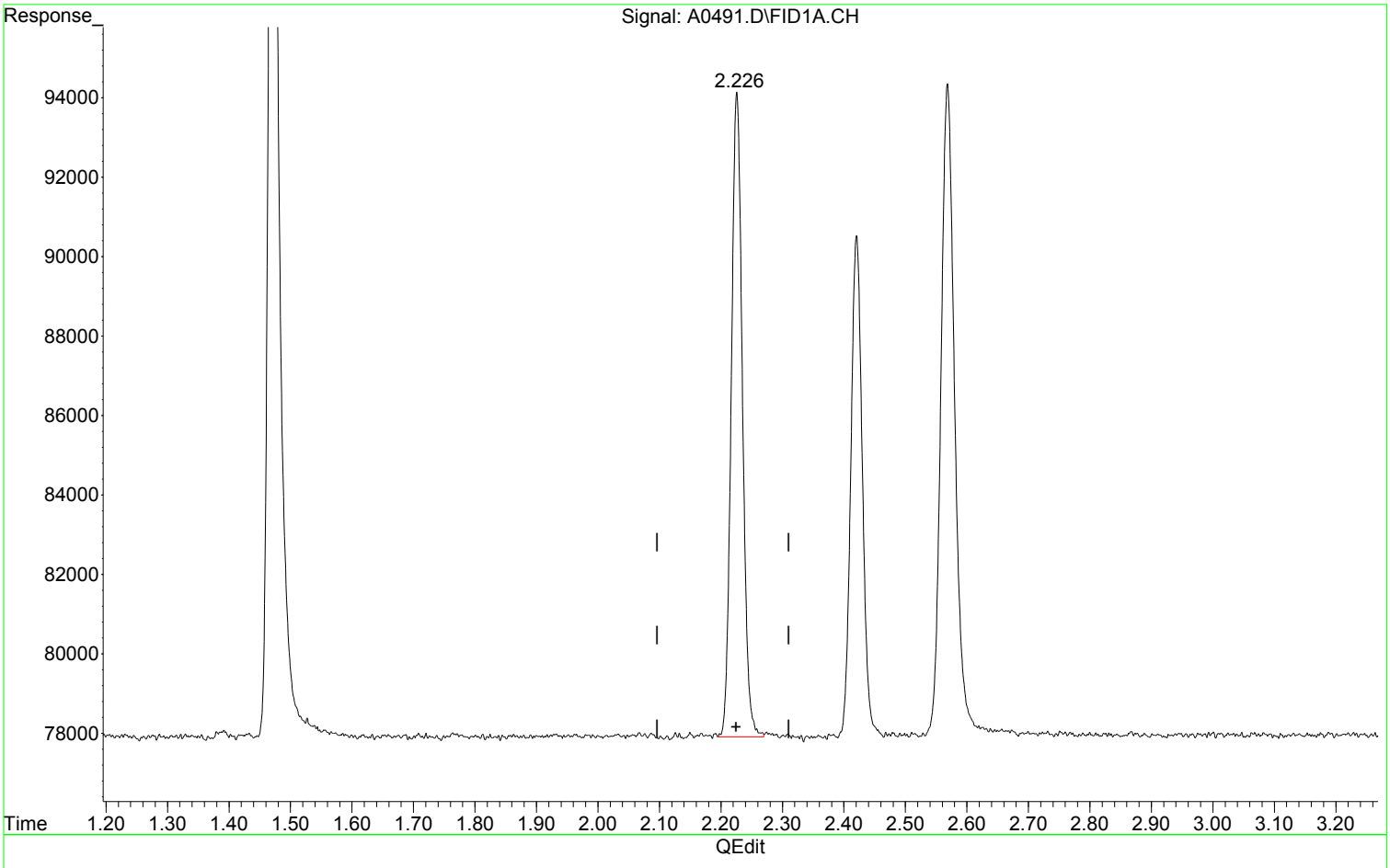
1st FJ 05/02/24
2nd AM 05/03/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(2) Acetylene
2.226min 8.893 ug/L m
response 204234

Manual Integration:
After
Peak not found.
05/02/24

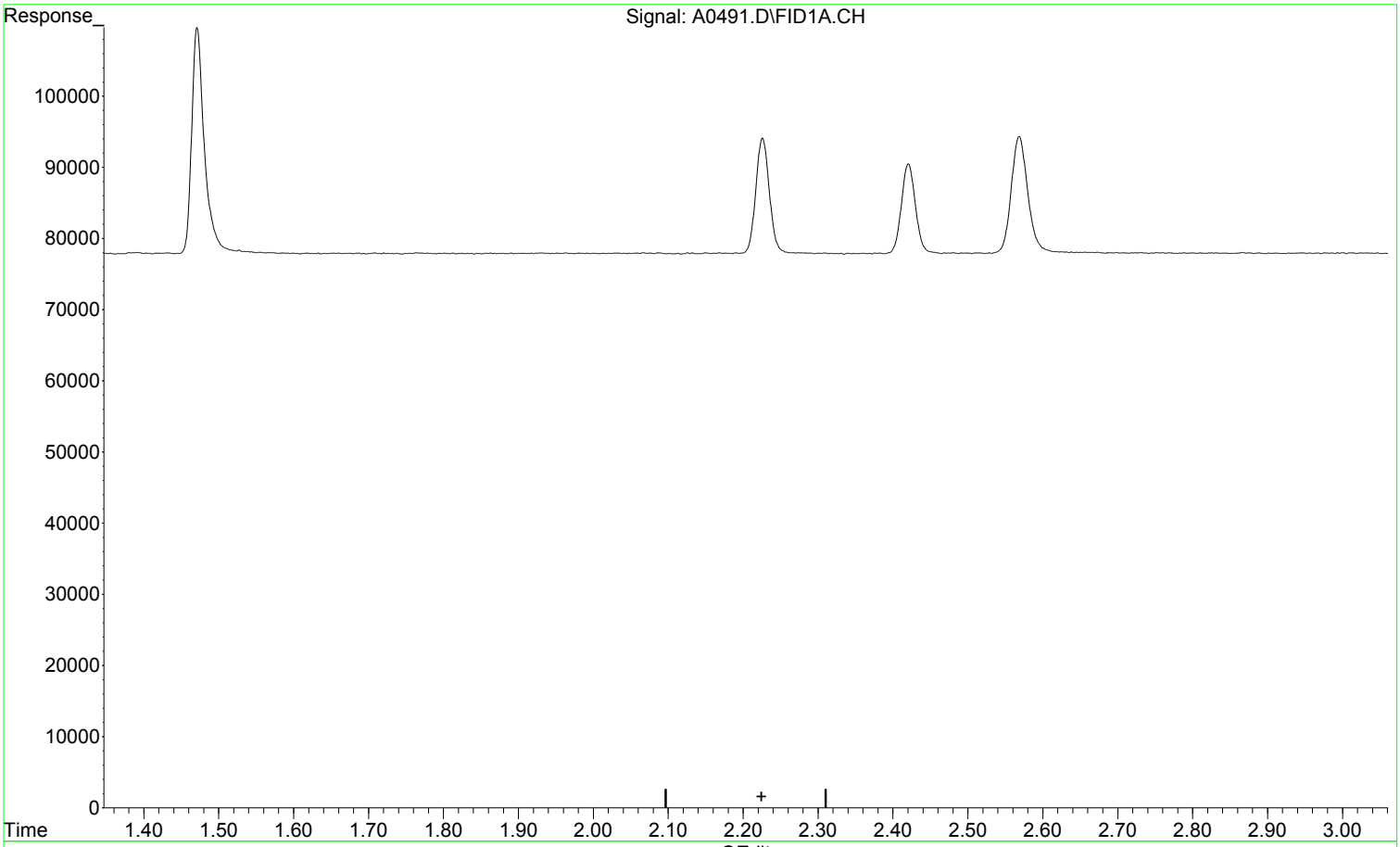
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(2) Acetylene
2.225min 0.000 ug/L
response 0

Manual Integration:
Before

05/02/24

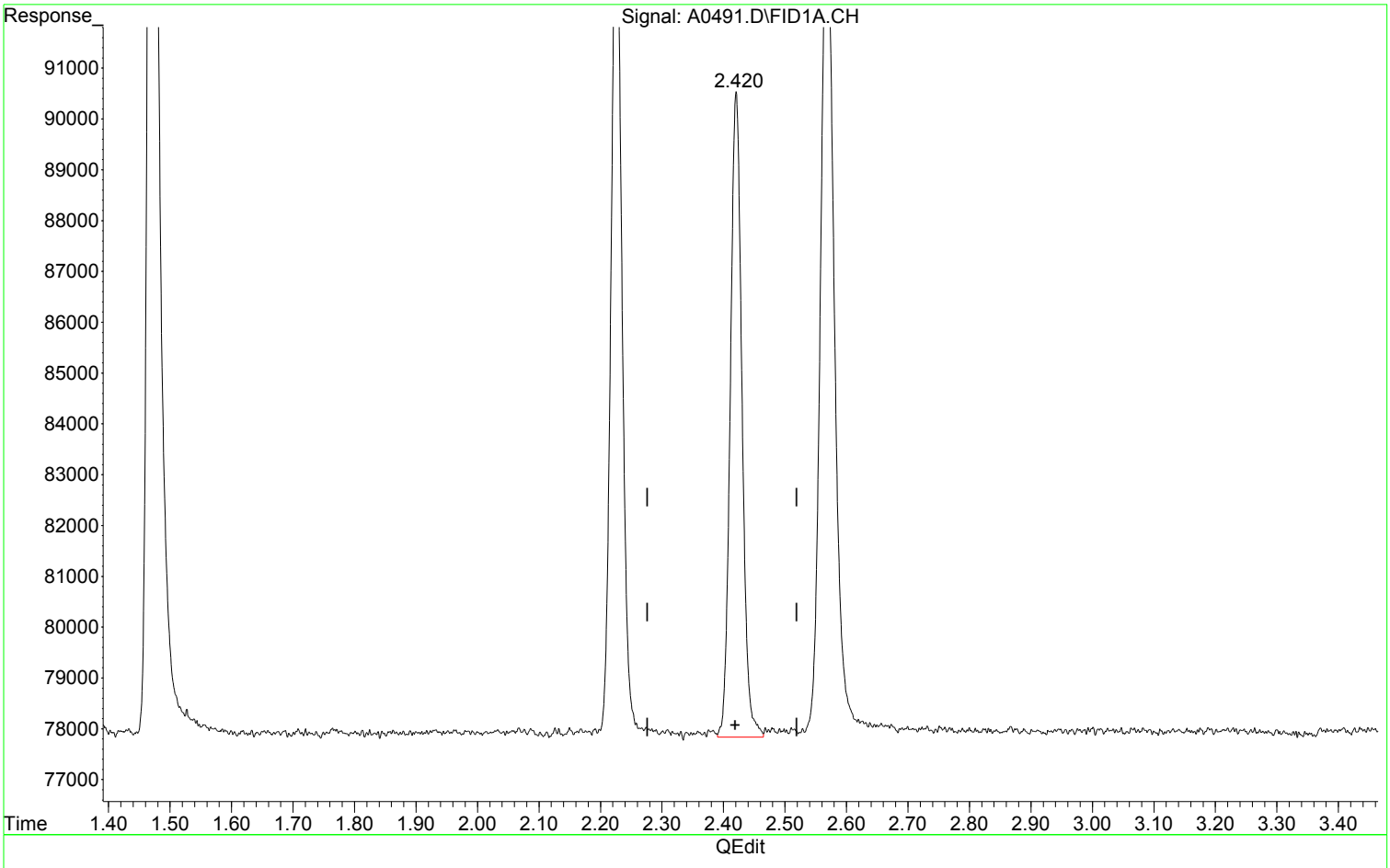
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(3) Ethylene
2.420min 4.203 ug/L m
response 167239

Manual Integration:
After
Peak not found.
05/02/24

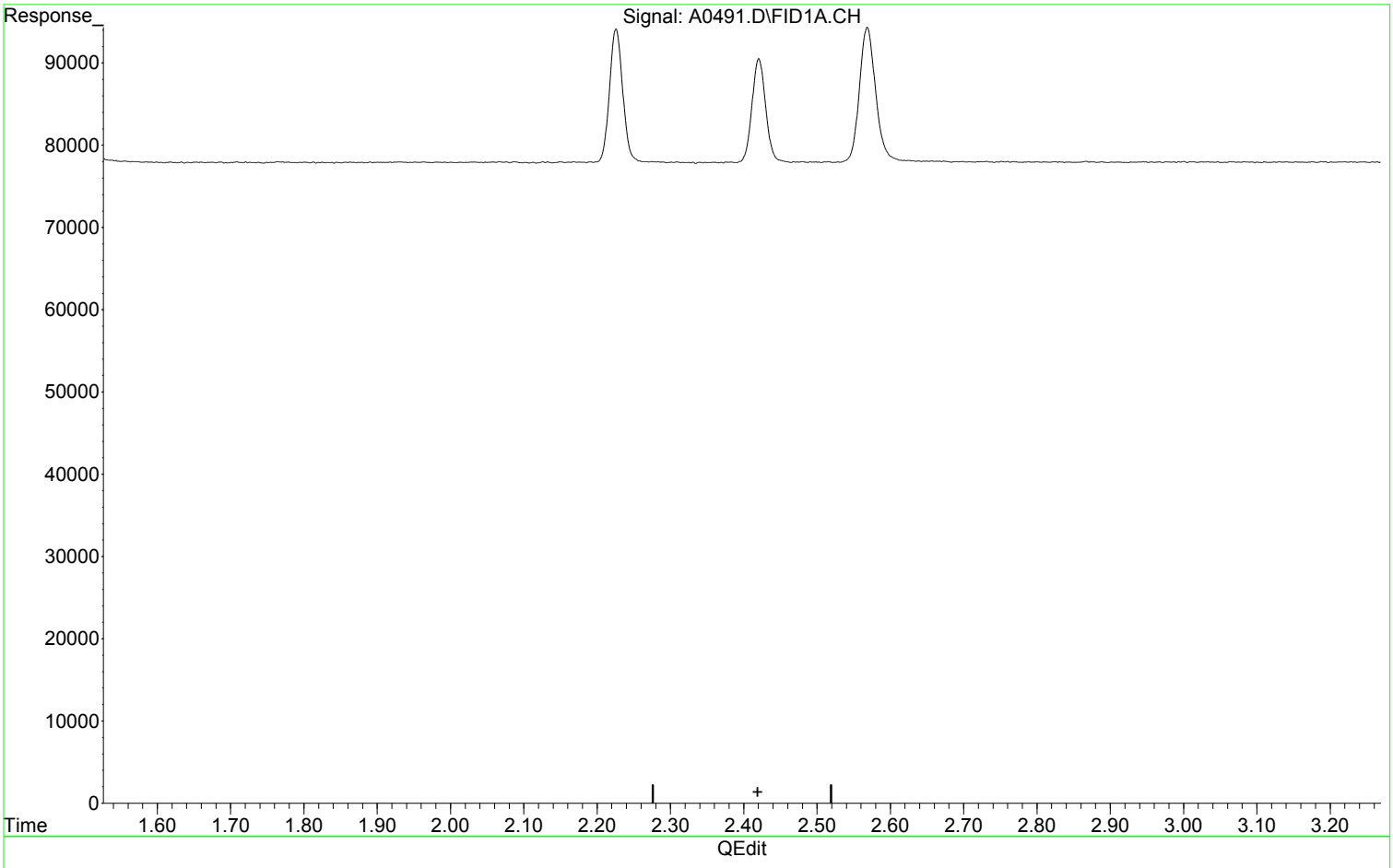
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(3) Ethylene
2.419min 0.000 ug/L
response 0

Manual Integration:
Before

05/02/24

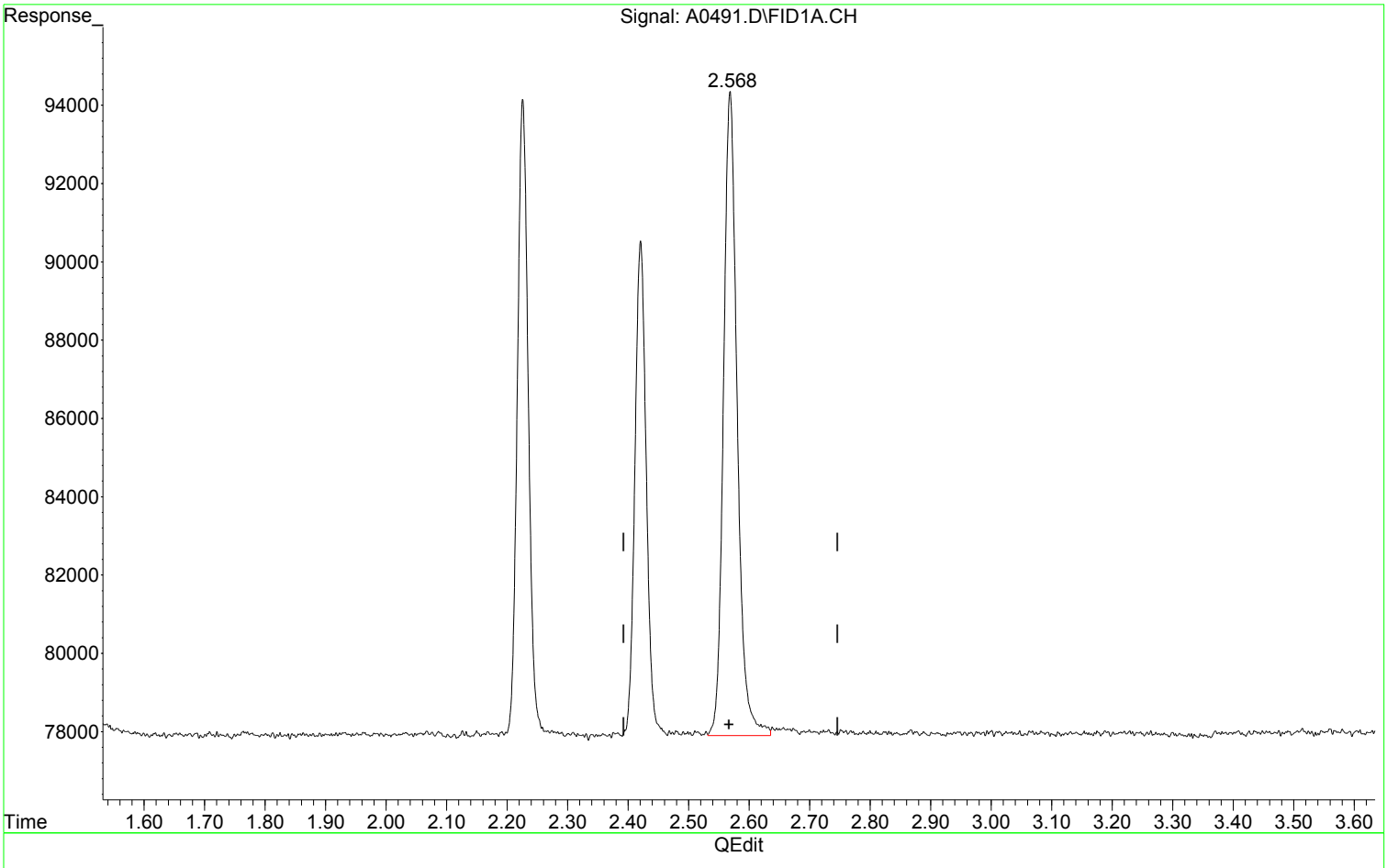
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.568min 4.795 ug/L m
response 258223

Manual Integration:
After
Peak not found.
05/02/24

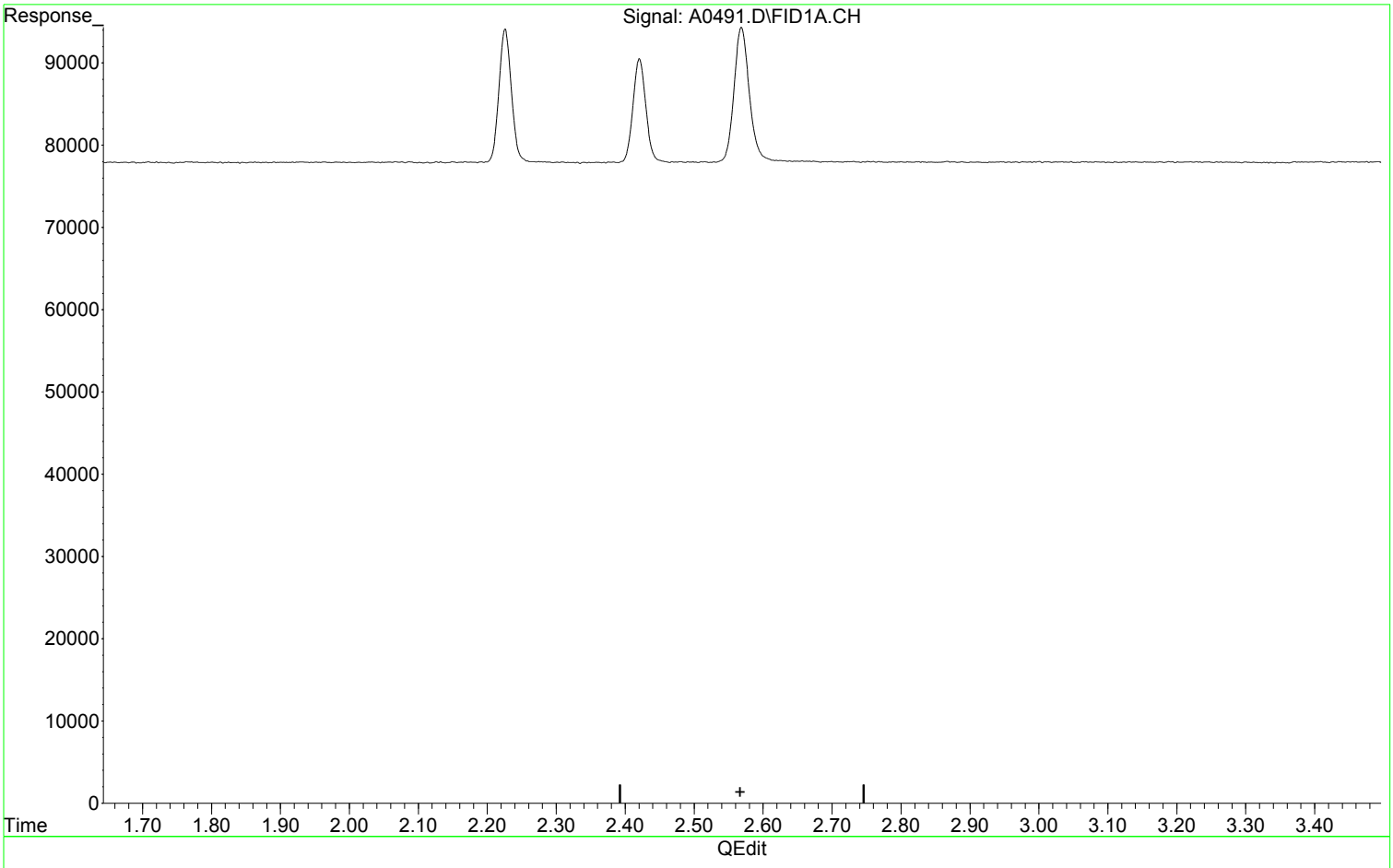
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.567min 0.000 ug/L
response 0

Manual Integration:
Before

05/02/24

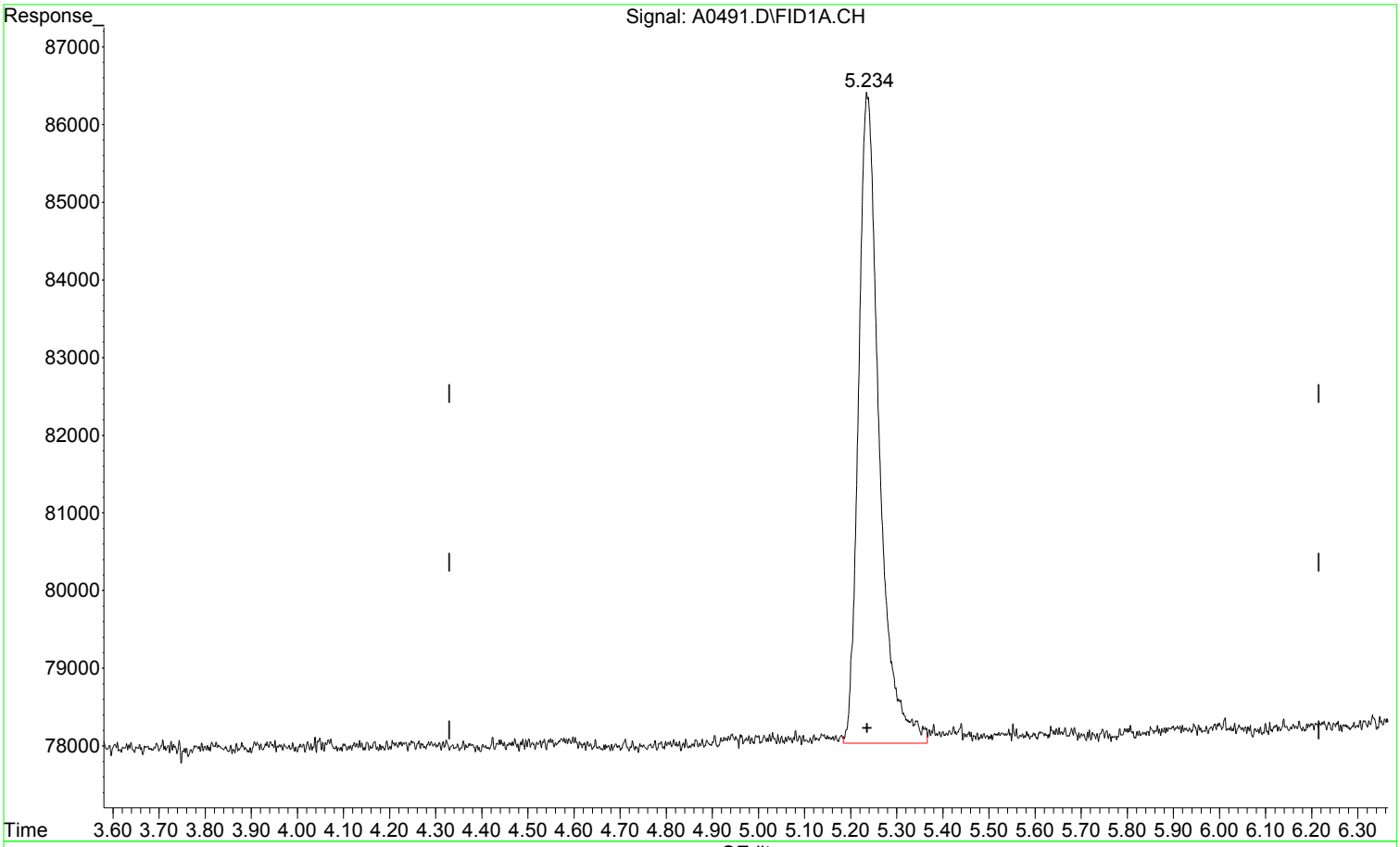
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(5) Propane
5.234min 4.586 ug/L m
response 260025

Manual Integration:
After
Peak not found.
05/02/24

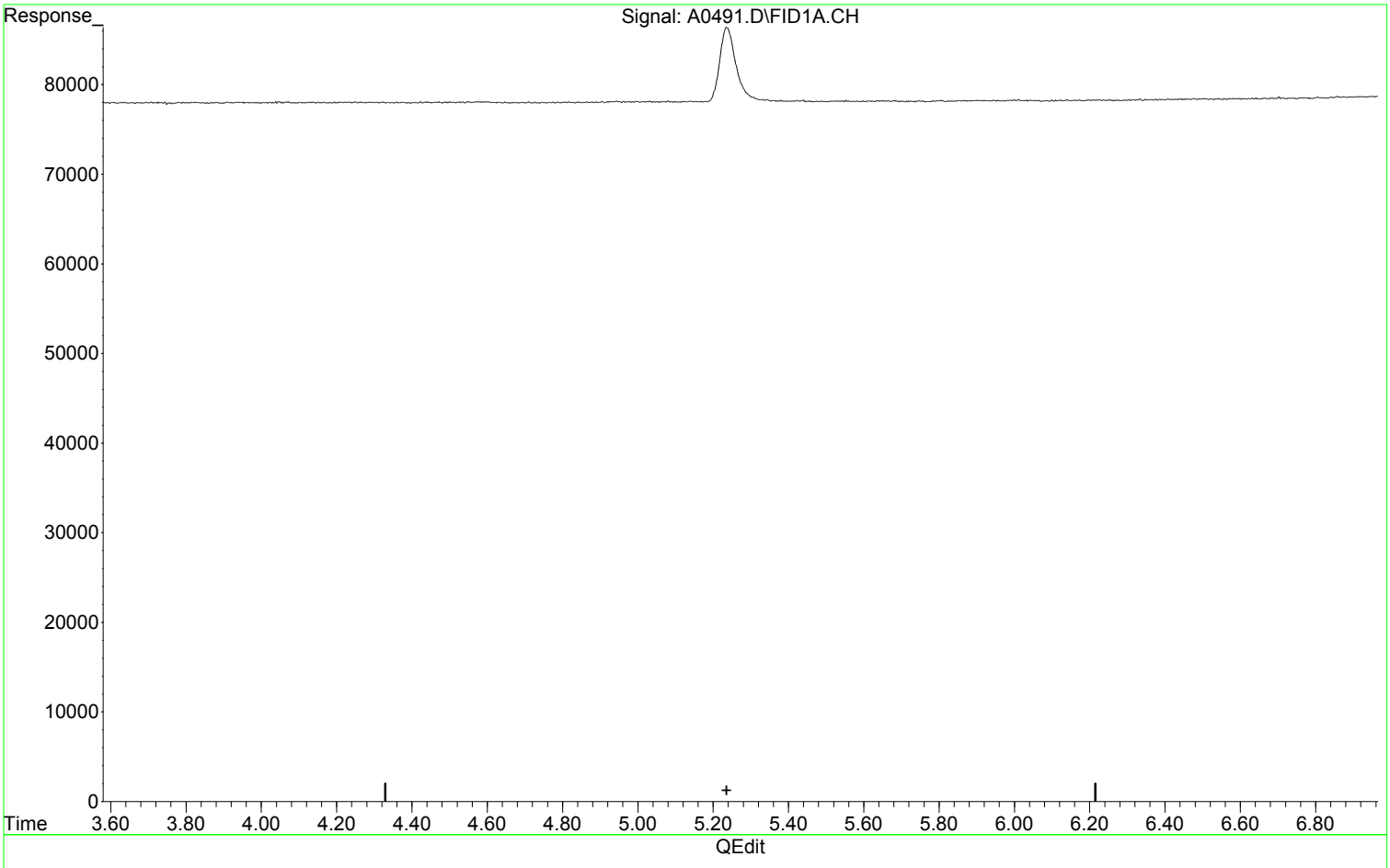
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(5) Propane

5.236min 0.000 ug/L

response 0

Manual Integration:

Before

05/02/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.471	377393	6.147 ug/L
2)	Acetylene	2.226	204234	8.893 ug/L m
3)	Ethylene	2.420	167239	4.203 ug/L m
4)	Ethane	2.568	258223	4.795 ug/L m
5)	Propane	5.234	260025	4.586 ug/L m

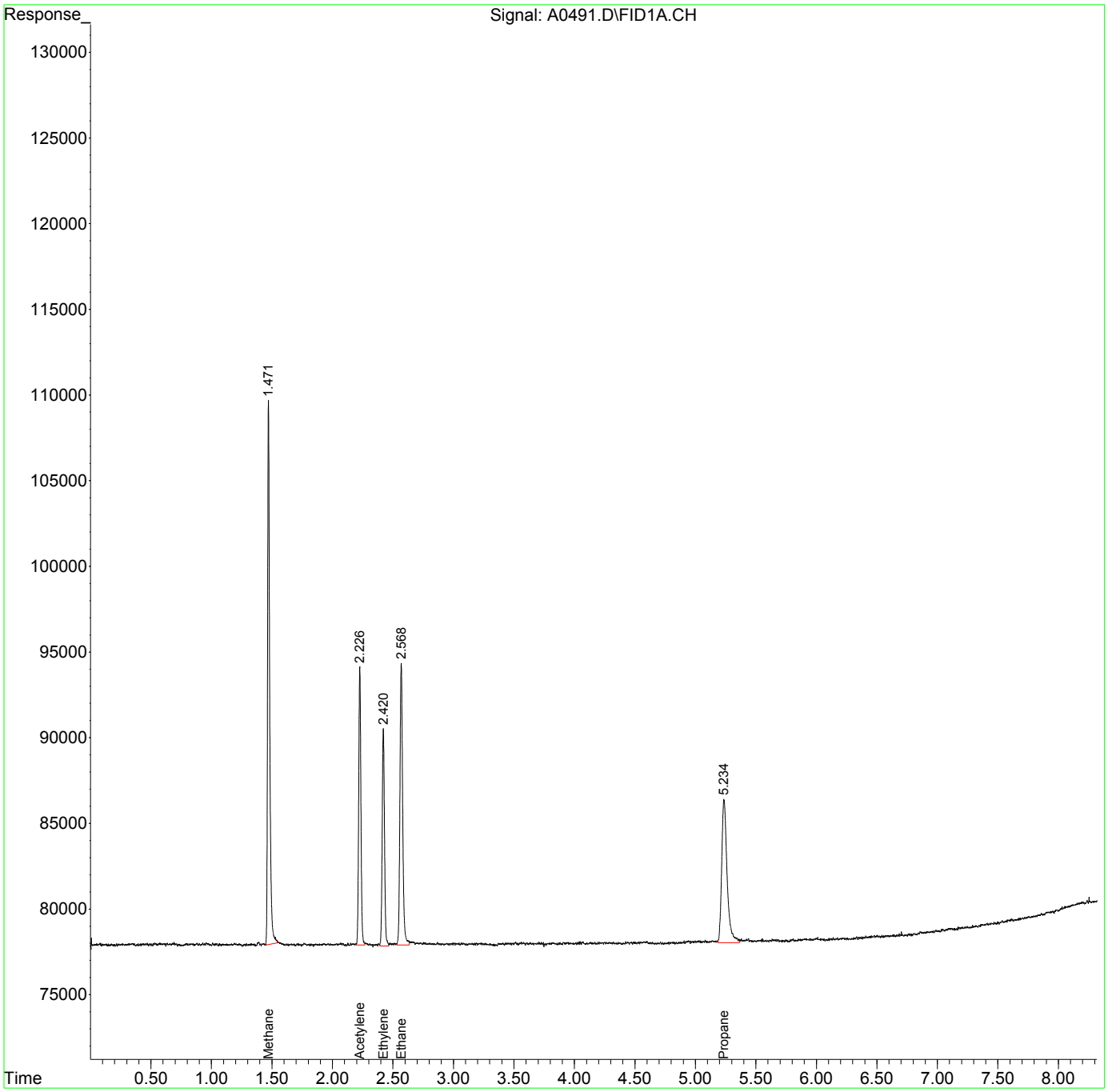
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

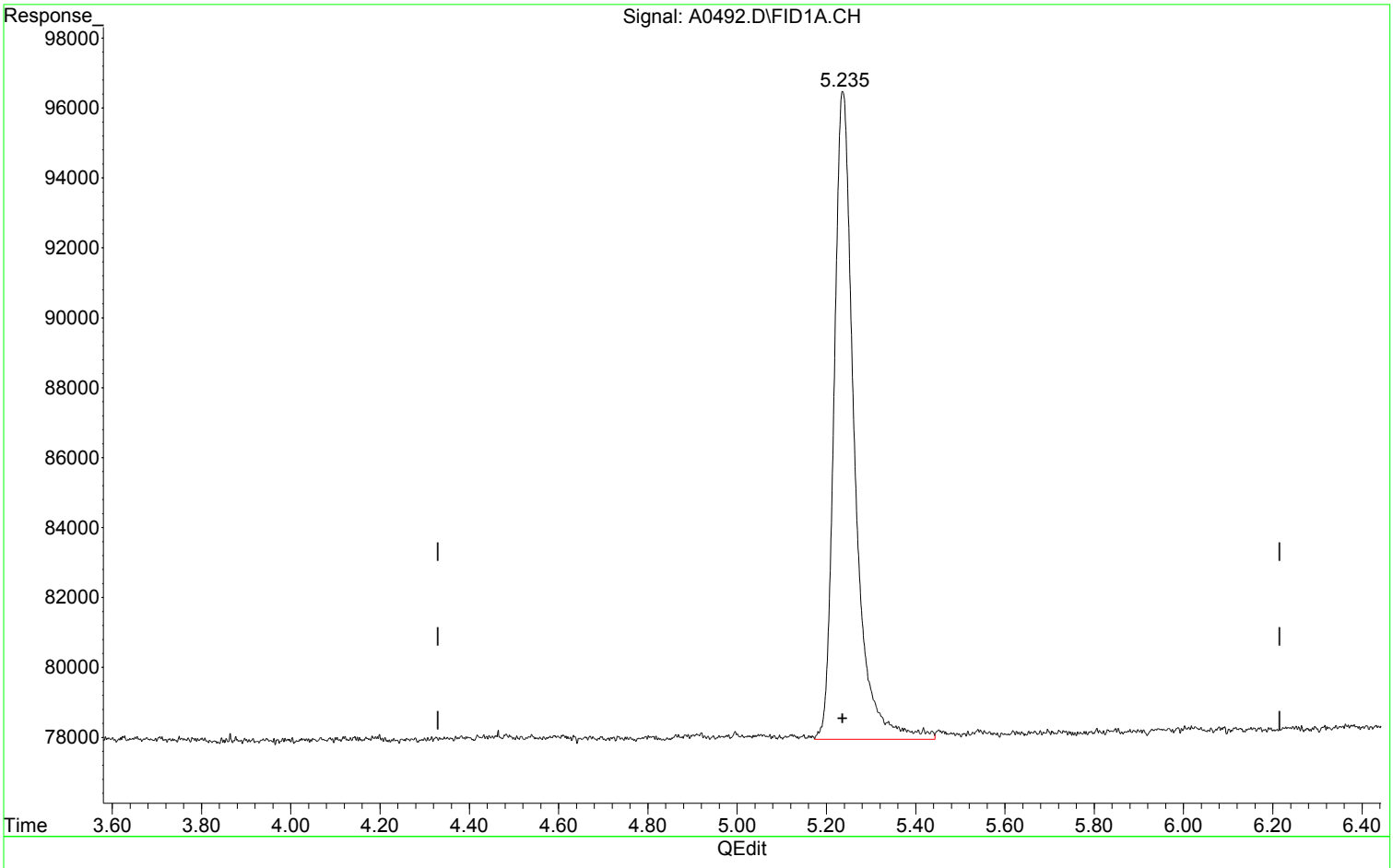


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0492.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:49 pm
Operator : F.NAEGLER
Sample : 10 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:58:10 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(5) Propane
5.235min 10.345 ug/L m
response 586565

Manual Integration:
After
Poor integration.
05/02/24

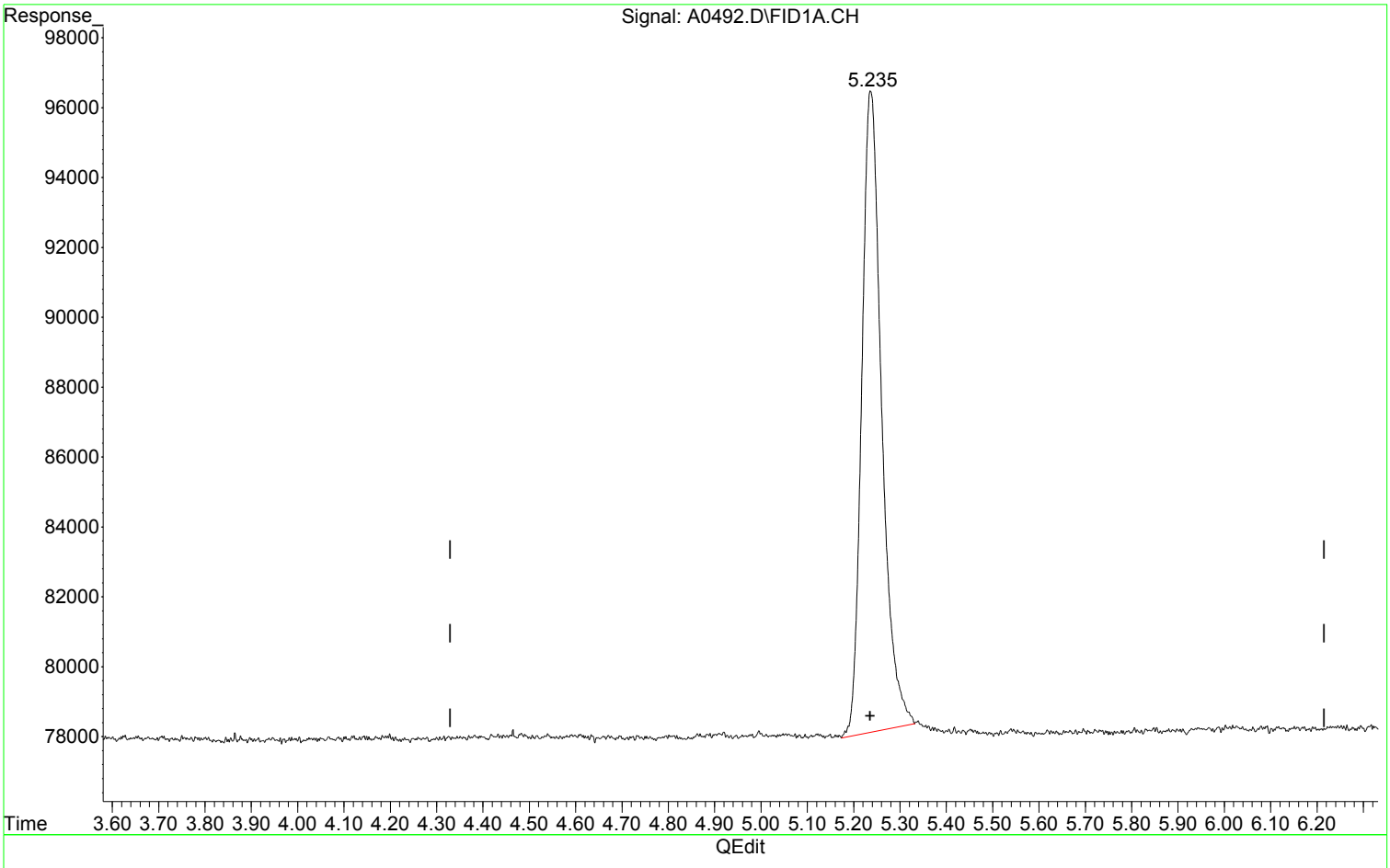
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0492.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:49 pm
Operator : F.NAEGLER
Sample : 10 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:58:10 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(5) Propane

5.237min 9.644 ug/L

response 546832

Manual Integration:

Before

05/02/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0492.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:49 pm
Operator : F.NAEGLER
Sample : 10 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:58:10 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.472	727006	11.841	ug/L
2)	Acetylene	2.227	459289	19.999	ug/L
3)	Ethylene	2.422	374436	9.410	ug/L
4)	Ethane	2.570	562428	10.445	ug/L
5)	Propane	5.235	586565	10.345	ug/L m

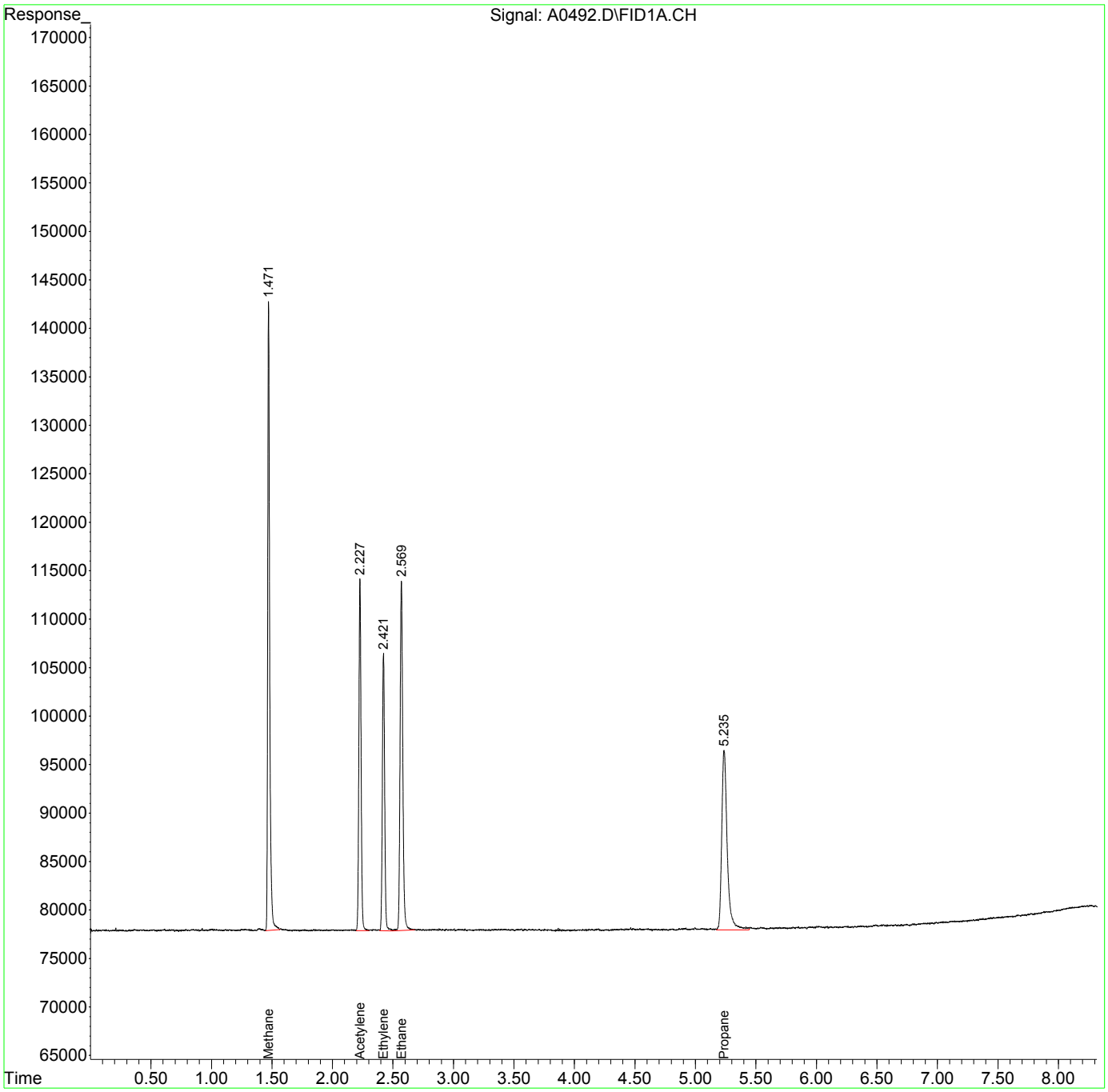
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0492.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:49 pm
Operator : F.NAEGLER
Sample : 10 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:58:10 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0493.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:00 pm
Operator : F.NAEGLER
Sample : 50 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:10:52 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.470	3214930	52.362 ug/L
2)	Acetylene	2.226	2624878	114.298 ug/L
3)	Ethylene	2.421	2322540	58.371 ug/L
4)	Ethane	2.568	3117518	57.895 ug/L
5)	Propane	5.236	3236715	57.083 ug/L

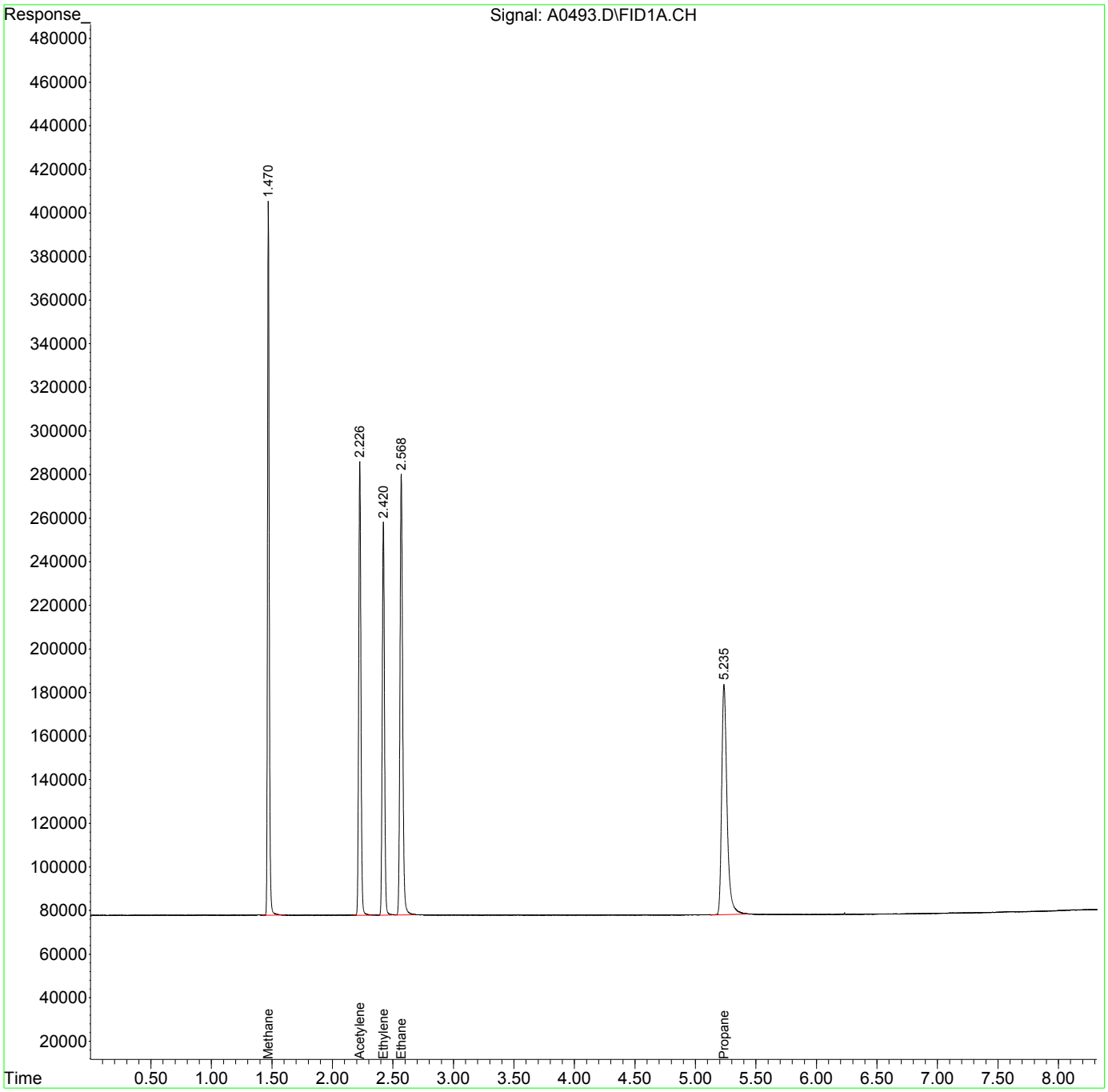
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0493.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:00 pm
Operator : F.NAEGLER
Sample : 50 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:10:52 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0494.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:12 pm
Operator : F.NAEGLER
Sample : 100 PPB STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:21:22 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.469	5418591	88.254	ug/L
2)	Acetylene	2.224	4437102	193.209	ug/L
3)	Ethylene	2.419	3694078	92.840	ug/L
4)	Ethane	2.567	5320059	98.799	ug/L
5)	Propane	5.235	5560210	98.060	ug/L

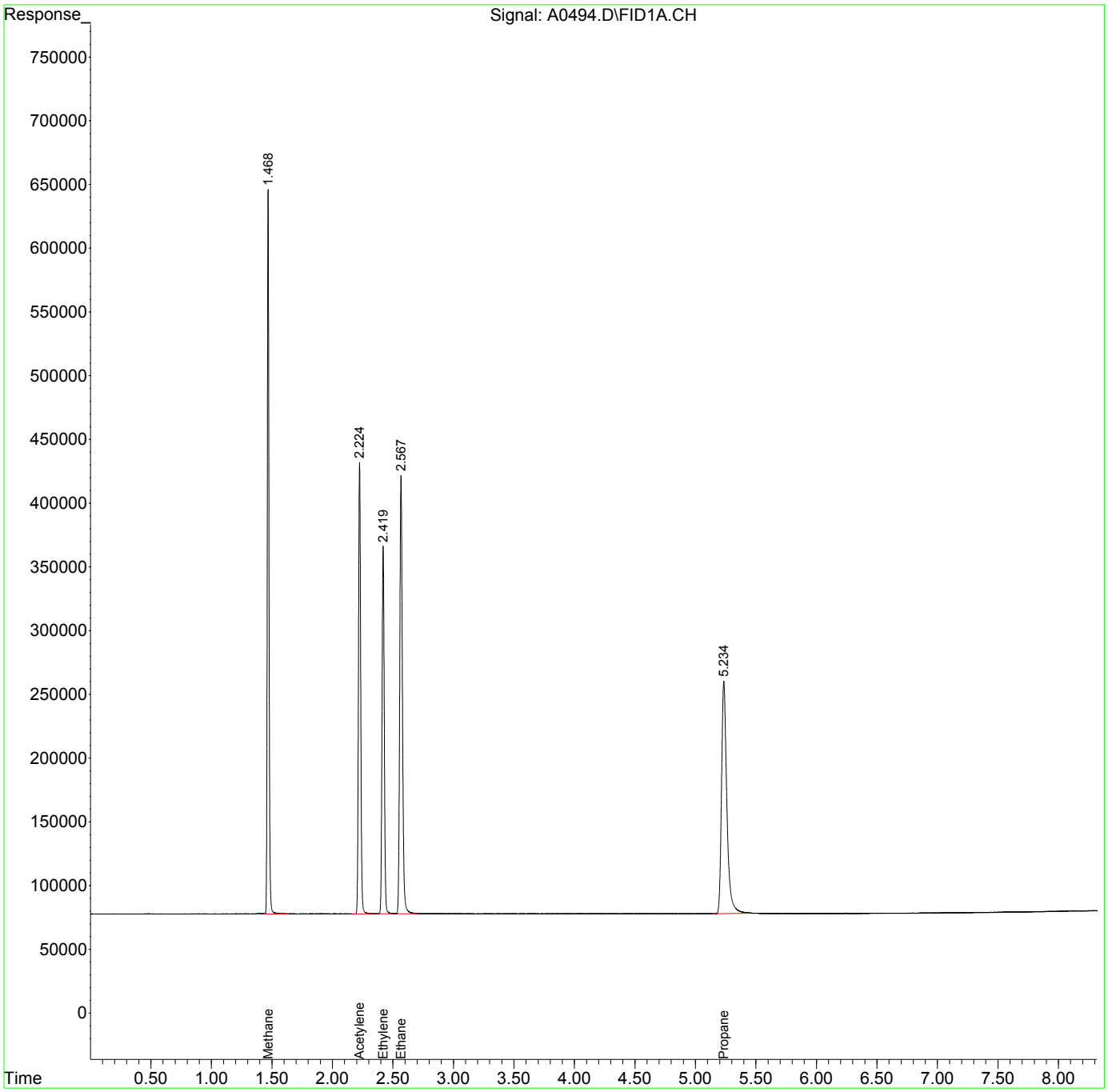
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0494.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:12 pm
Operator : F.NAEGLER
Sample : 100 PPB STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:21:22 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0495.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:25 pm
Operator : F.NAEGLER
Sample : 250 PPB STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:34:20 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.467	13990118	227.860 ug/L
2)	Acetylene	2.223	11801293	513.876 ug/L
3)	Ethylene	2.418	10615846	266.800 ug/L
4)	Ethane	2.565	14055083	261.016 ug/L
5)	Propane	5.233	14723903	259.670 ug/L

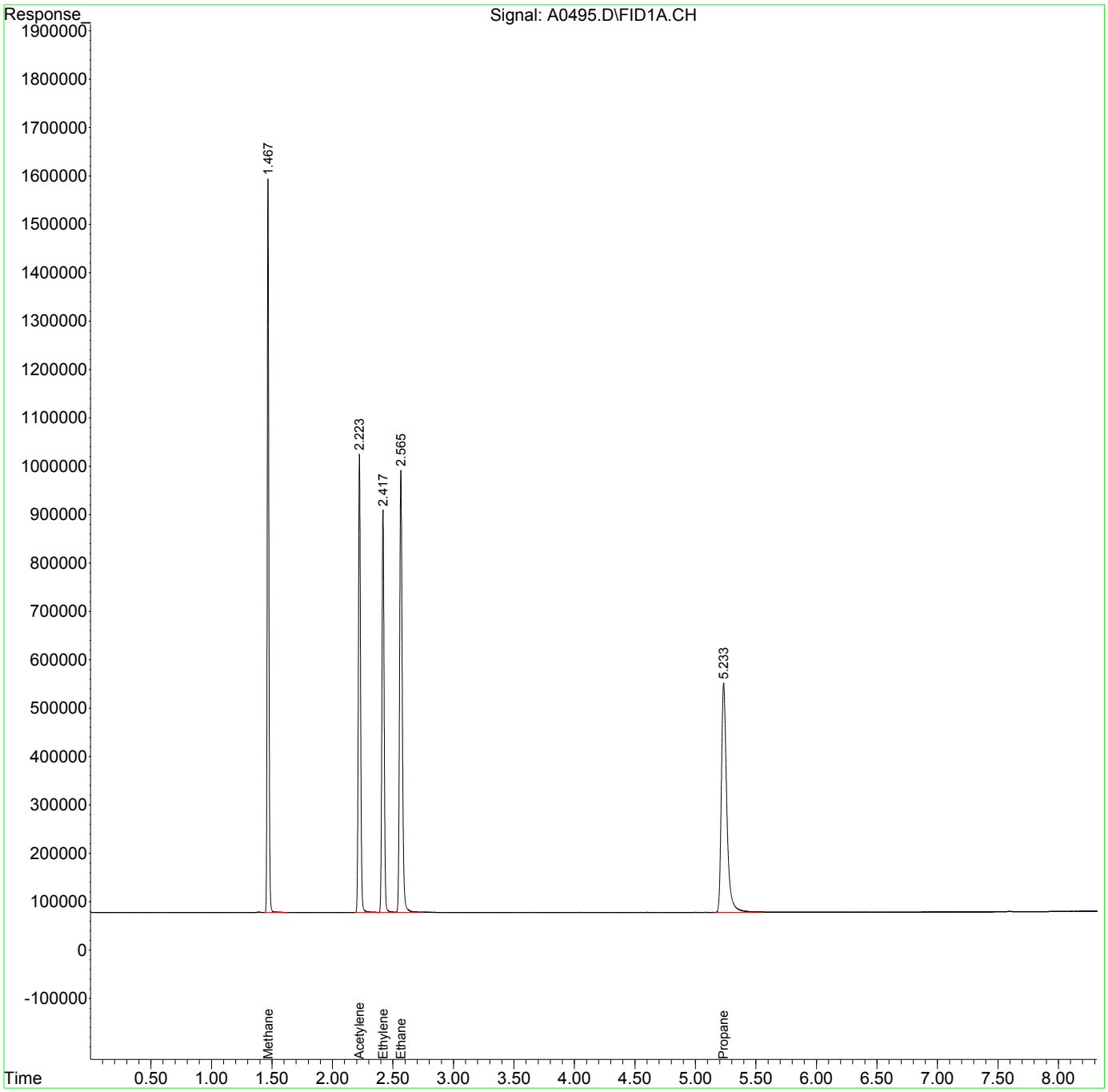
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0495.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:25 pm
Operator : F.NAEGLER
Sample : 250 PPB STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:34:20 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0496.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:37 pm
Operator : F.NAEGLER
Sample : 375 PPB STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:47:17 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.469	21884847	356.443 ug/L
2)	Acetylene	2.224	18171519	791.261 ug/L
3)	Ethylene	2.418	16170682	406.405 ug/L
4)	Ethane	2.566	21759513	404.095 ug/L
5)	Propane	5.234	22727156	400.815 ug/L

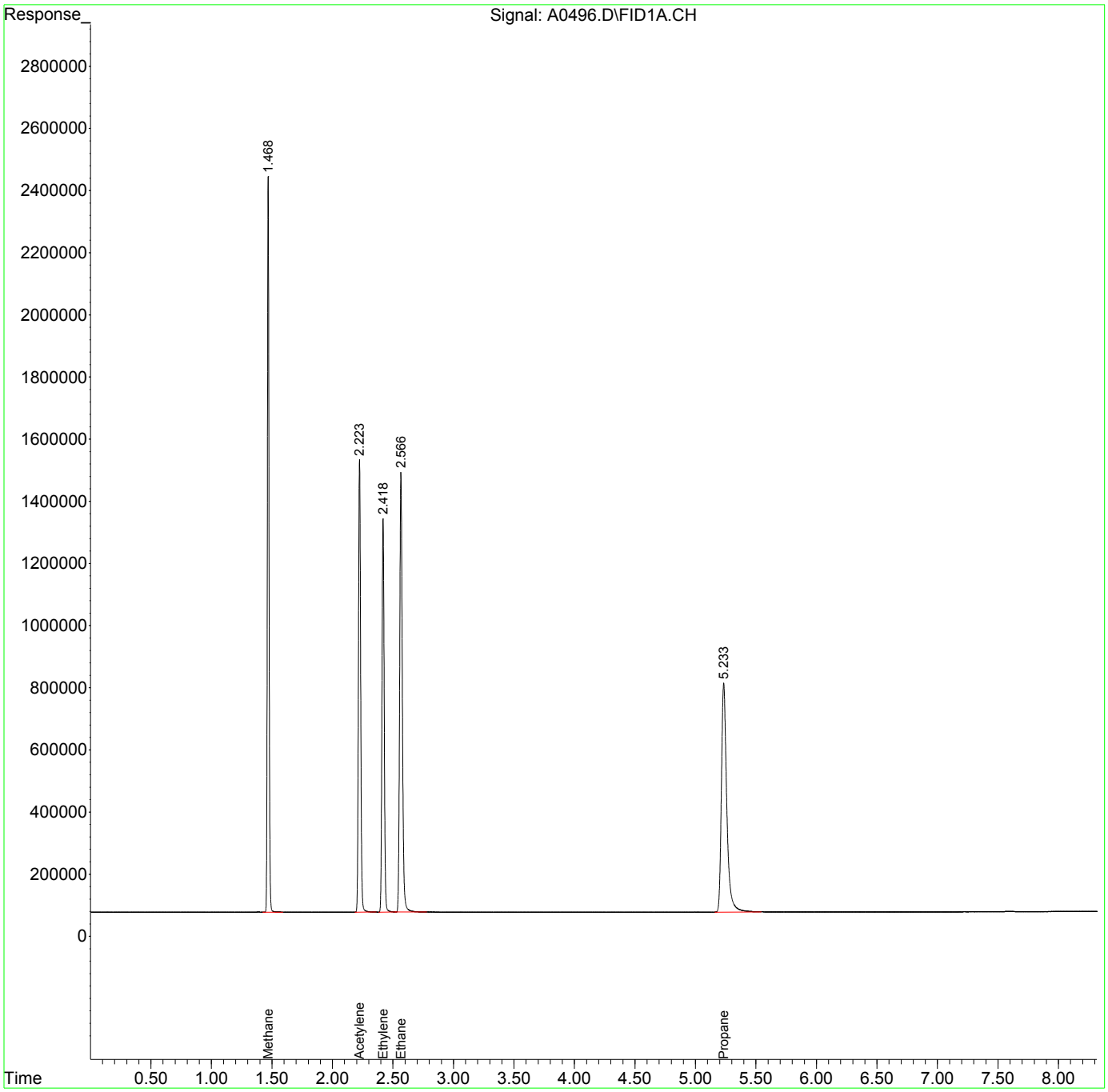
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0496.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:37 pm
Operator : F.NAEGLER
Sample : 375 PPB STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:47:17 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0497.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:49 pm
Operator : F.NAEGLER
Sample : 500 PPB STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:59:21 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:50:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.468	28142971	464.331 ug/L
2)	Acetylene	2.224	23609982	1015.136 ug/L
3)	Ethylene	2.418	20770596	505.212 ug/L
4)	Ethane	2.566	28288871	523.225 ug/L
5)	Propane	5.234	29723608	518.290 ug/L

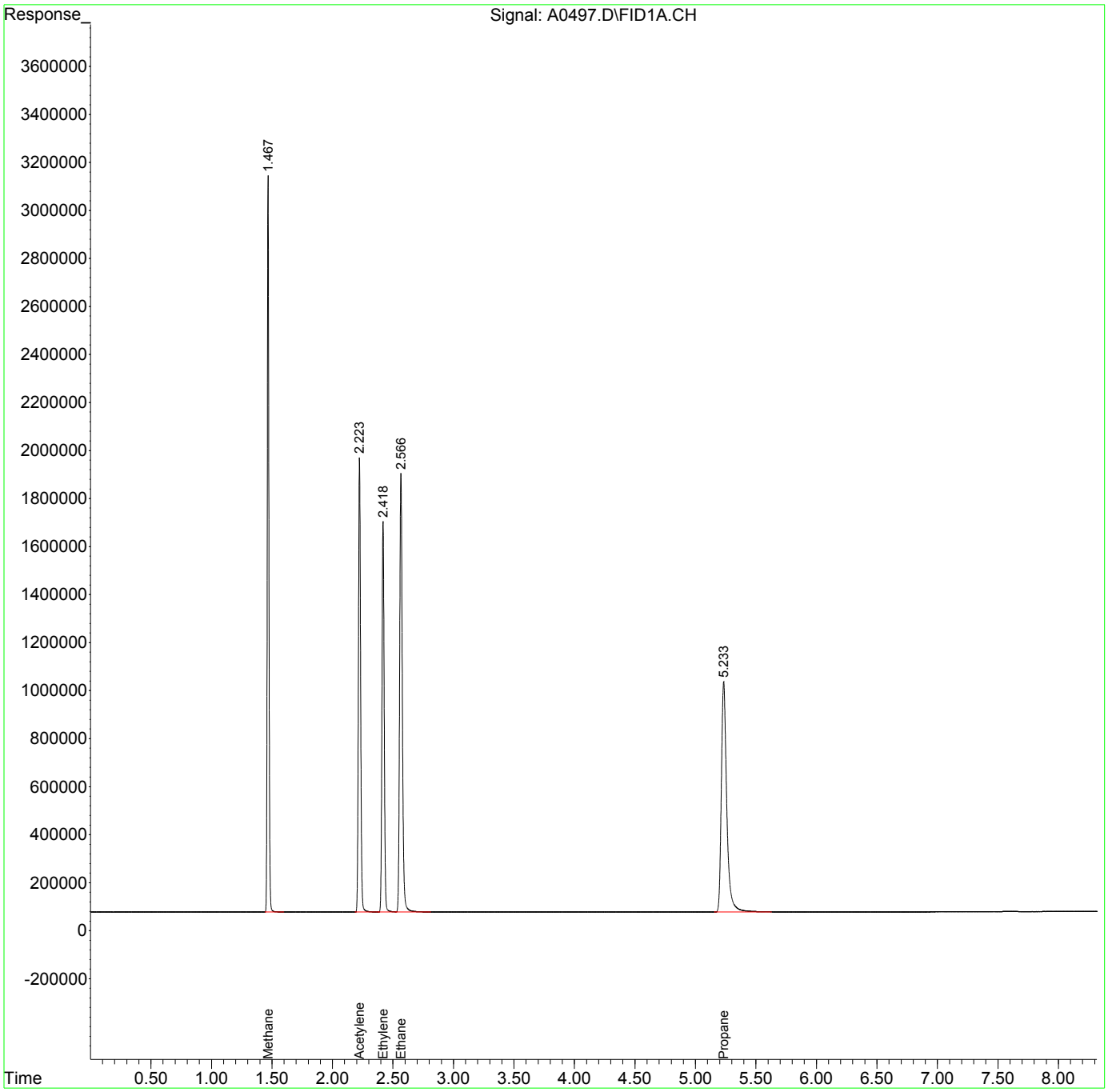
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0497.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:49 pm
Operator : F.NAEGLER
Sample : 500 PPB STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:59:21 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:50:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0499.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 4:17 pm
Operator : F.NAEGLER
Sample : 250 PPB ICV
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:27:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Methane	262.300	240.007	8.5	102	0.00
2	Acetylene	500.600	519.197	-3.7	103	0.00
3	Ethylene	242.800	253.528	-4.4	99	0.00
4	Ethane	260.300	267.485	-2.8	103	0.00
5	Propane	254.500	262.040	-3.0	102	0.00

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0499.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 4:17 pm
Operator : F.NAEGLER
Sample : 250 PPB ICV
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:27:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.468	14308021	240.007	ug/L
2)	Acetylene	2.223	12099466	519.197	ug/L
3)	Ethylene	2.418	10483009	253.528	ug/L
4)	Ethane	2.566	14471962	267.485	ug/L
5)	Propane	5.234	15066997	262.040	ug/L

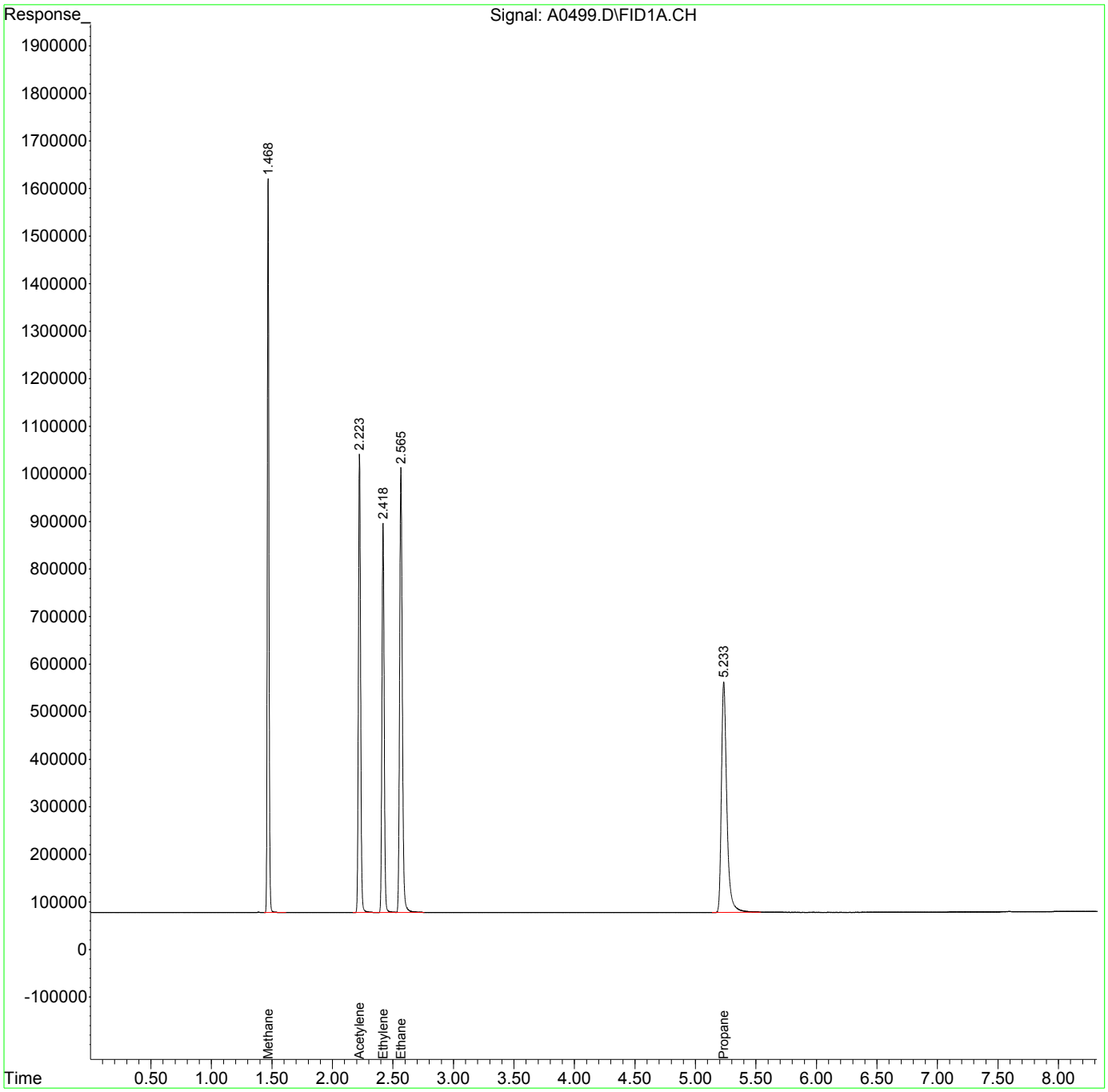
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0499.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 4:17 pm
Operator : F.NAEGLER
Sample : 250 PPB ICV
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:27:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0499.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 4:17 pm
Operator : F.NAEGLER
Sample : 250 PPB ICV
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:27:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Methane	262.300	240.007	8.5	102	0.00
2	Acetylene	500.600	519.197	-3.7	103	0.00
3	Ethylene	242.800	253.528	-4.4	99	0.00
4	Ethane	260.300	267.485	-2.8	103	0.00
5	Propane	254.500	262.040	-3.0	102	0.00

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0497.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:49 pm
Operator : F.NAEGLER
Sample : 500 PPB STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:59:21 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:50:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.468	28142971	464.331	ug/L
2)	Acetylene	2.224	23609982	1015.136	ug/L
3)	Ethylene	2.418	20770596	505.212	ug/L
4)	Ethane	2.566	28288871	523.225	ug/L
5)	Propane	5.234	29723608	518.290	ug/L

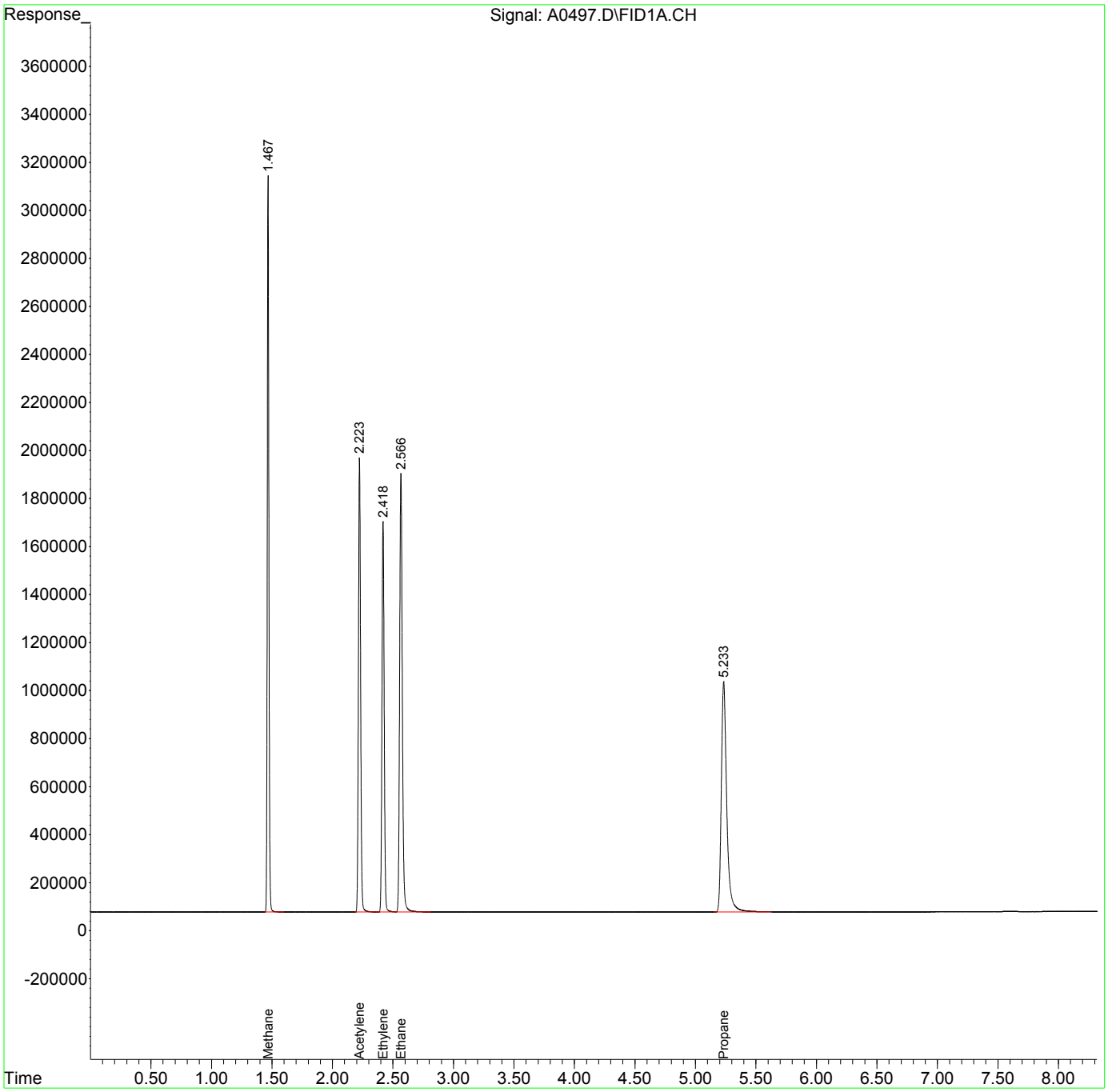
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0497.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:49 pm
Operator : F.NAEGLER
Sample : 500 PPB STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:59:21 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:50:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0496.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:37 pm
Operator : F.NAEGLER
Sample : 375 PPB STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:47:17 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.469	21884847	356.443 ug/L
2)	Acetylene	2.224	18171519	791.261 ug/L
3)	Ethylene	2.418	16170682	406.405 ug/L
4)	Ethane	2.566	21759513	404.095 ug/L
5)	Propane	5.234	22727156	400.815 ug/L

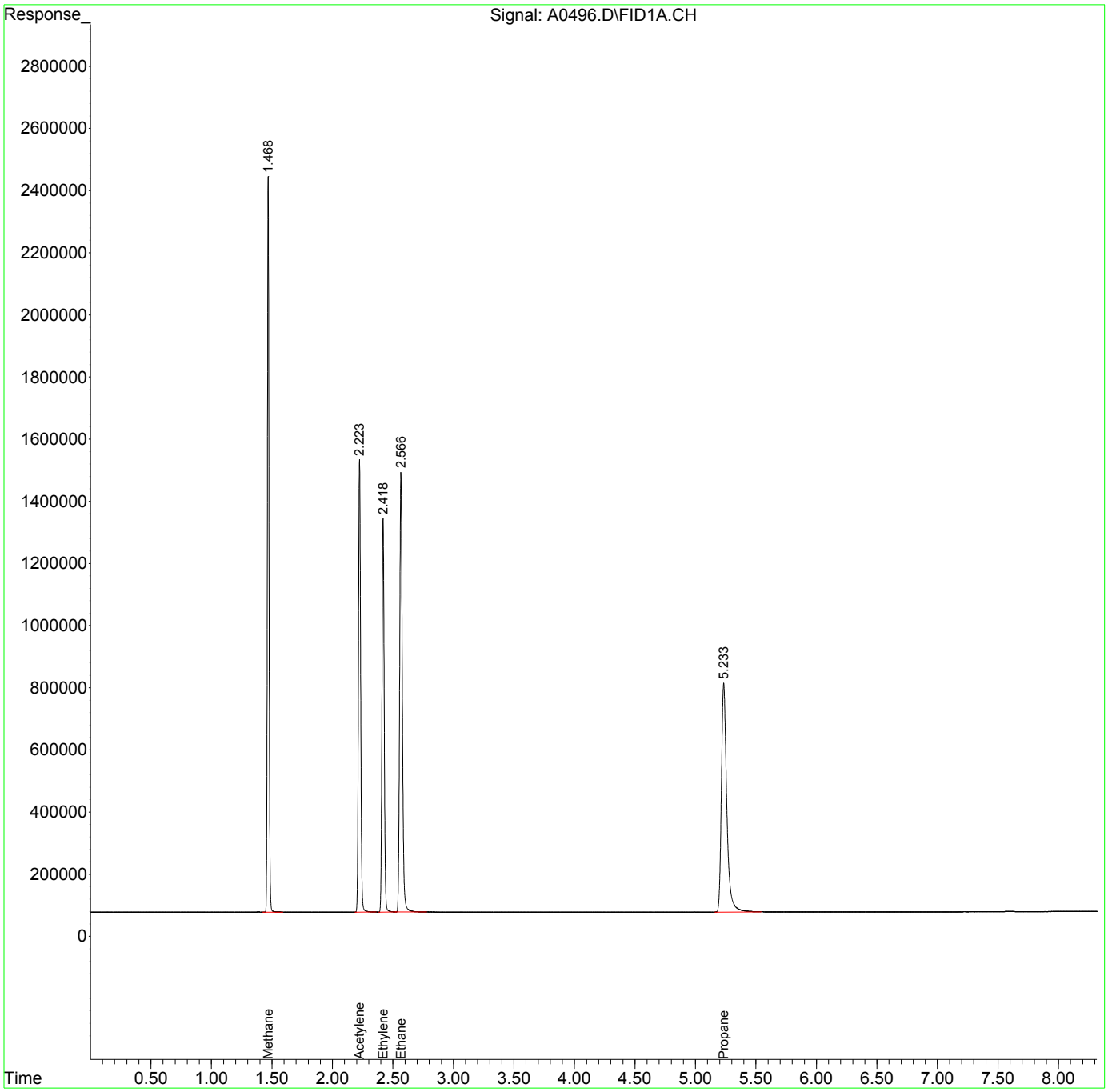
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0496.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:37 pm
Operator : F.NAEGLER
Sample : 375 PPB STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:47:17 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0495.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:25 pm
Operator : F.NAEGLER
Sample : 250 PPB STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:34:20 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.467	13990118	227.860 ug/L
2)	Acetylene	2.223	11801293	513.876 ug/L
3)	Ethylene	2.418	10615846	266.800 ug/L
4)	Ethane	2.565	14055083	261.016 ug/L
5)	Propane	5.233	14723903	259.670 ug/L

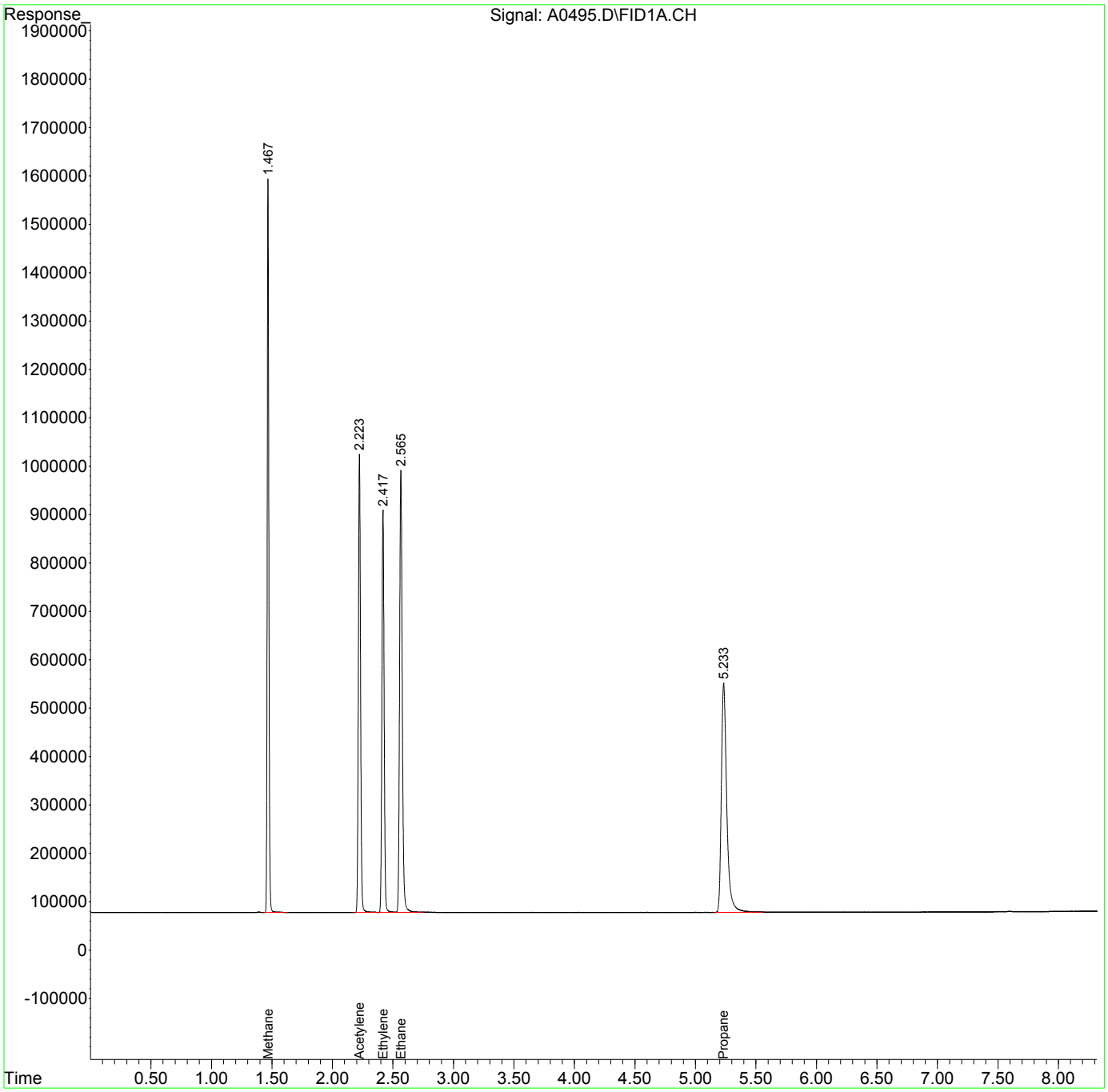
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0495.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:25 pm
Operator : F.NAEGLER
Sample : 250 PPB STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:34:20 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0494.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:12 pm
Operator : F.NAEGLER
Sample : 100 PPB STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:21:22 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.469	5418591	88.254	ug/L
2)	Acetylene	2.224	4437102	193.209	ug/L
3)	Ethylene	2.419	3694078	92.840	ug/L
4)	Ethane	2.567	5320059	98.799	ug/L
5)	Propane	5.235	5560210	98.060	ug/L

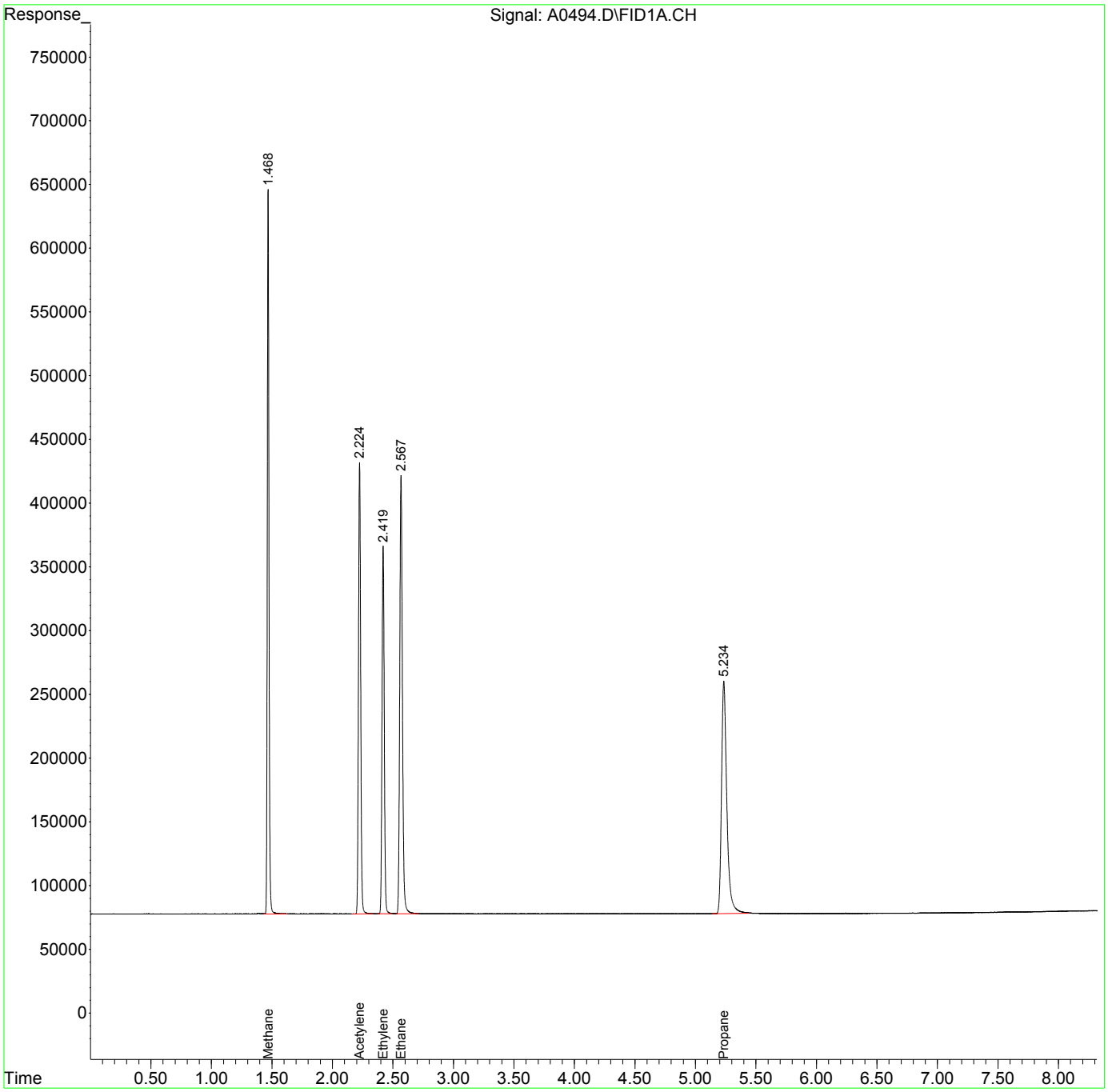
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0494.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:12 pm
Operator : F.NAEGLER
Sample : 100 PPB STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:21:22 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0493.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:00 pm
Operator : F.NAEGLER
Sample : 50 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:10:52 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.470	3214930	52.362 ug/L
2)	Acetylene	2.226	2624878	114.298 ug/L
3)	Ethylene	2.421	2322540	58.371 ug/L
4)	Ethane	2.568	3117518	57.895 ug/L
5)	Propane	5.236	3236715	57.083 ug/L

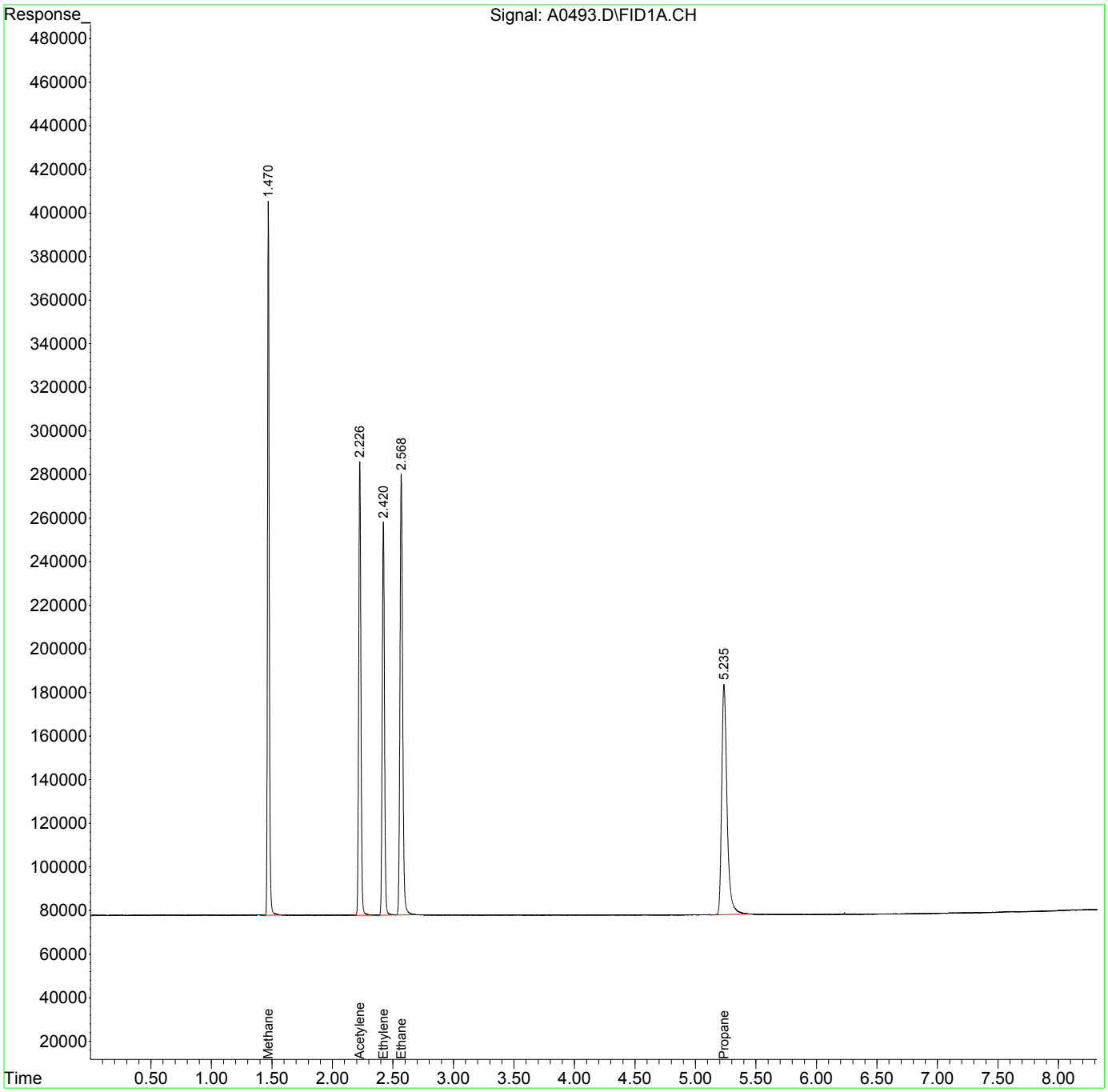
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0493.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:00 pm
Operator : F.NAEGLER
Sample : 50 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:10:52 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



1st FJ 05/02/24
2nd AM 05/03/24

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0492.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:49 pm
Operator : F.NAEGLER
Sample : 10 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:58:10 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.472	727006	11.841	ug/L
2)	Acetylene	2.227	459289	19.999	ug/L
3)	Ethylene	2.422	374436	9.410	ug/L
4)	Ethane	2.570	562428	10.445	ug/L
5)	Propane	5.235	586565	10.345	ug/L m

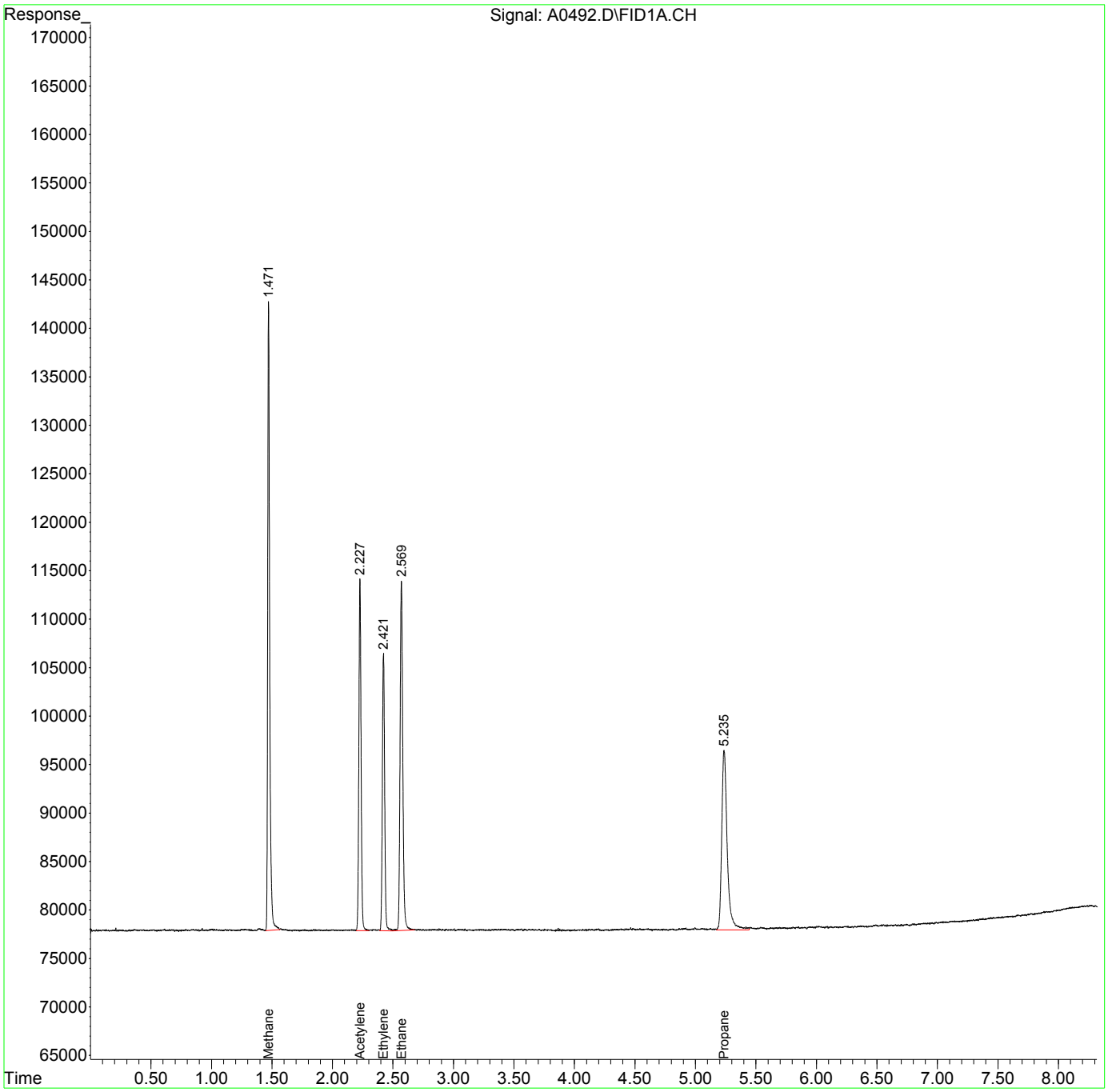
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0492.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:49 pm
Operator : F.NAEGLER
Sample : 10 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:58:10 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



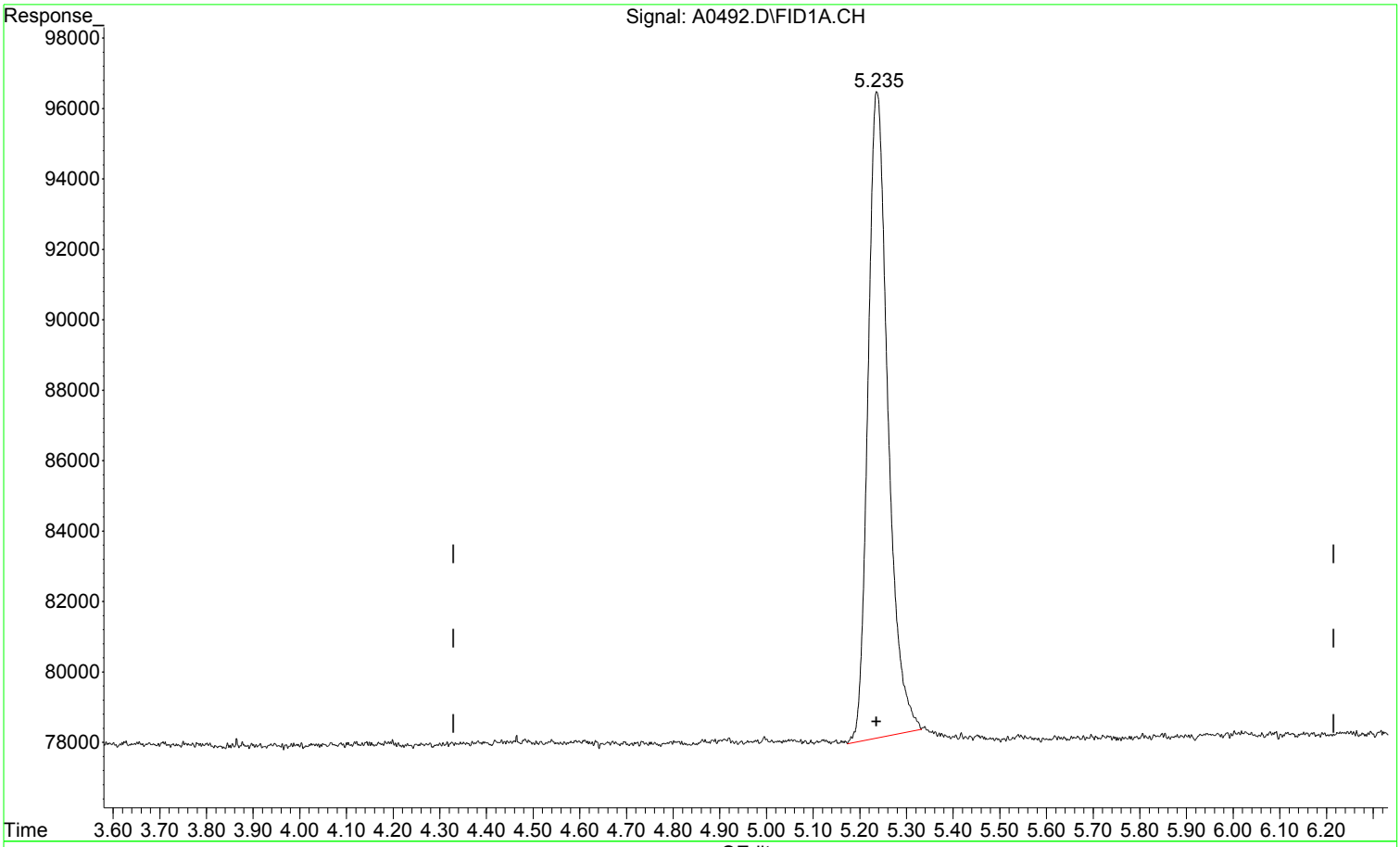
1st FJ 05/02/24
2nd AM 05/03/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0492.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:49 pm
Operator : F.NAEGLER
Sample : 10 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:58:10 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(5) Propane

5.237min 9.644 ug/L

response 546832

Manual Integration:

Before

05/02/24

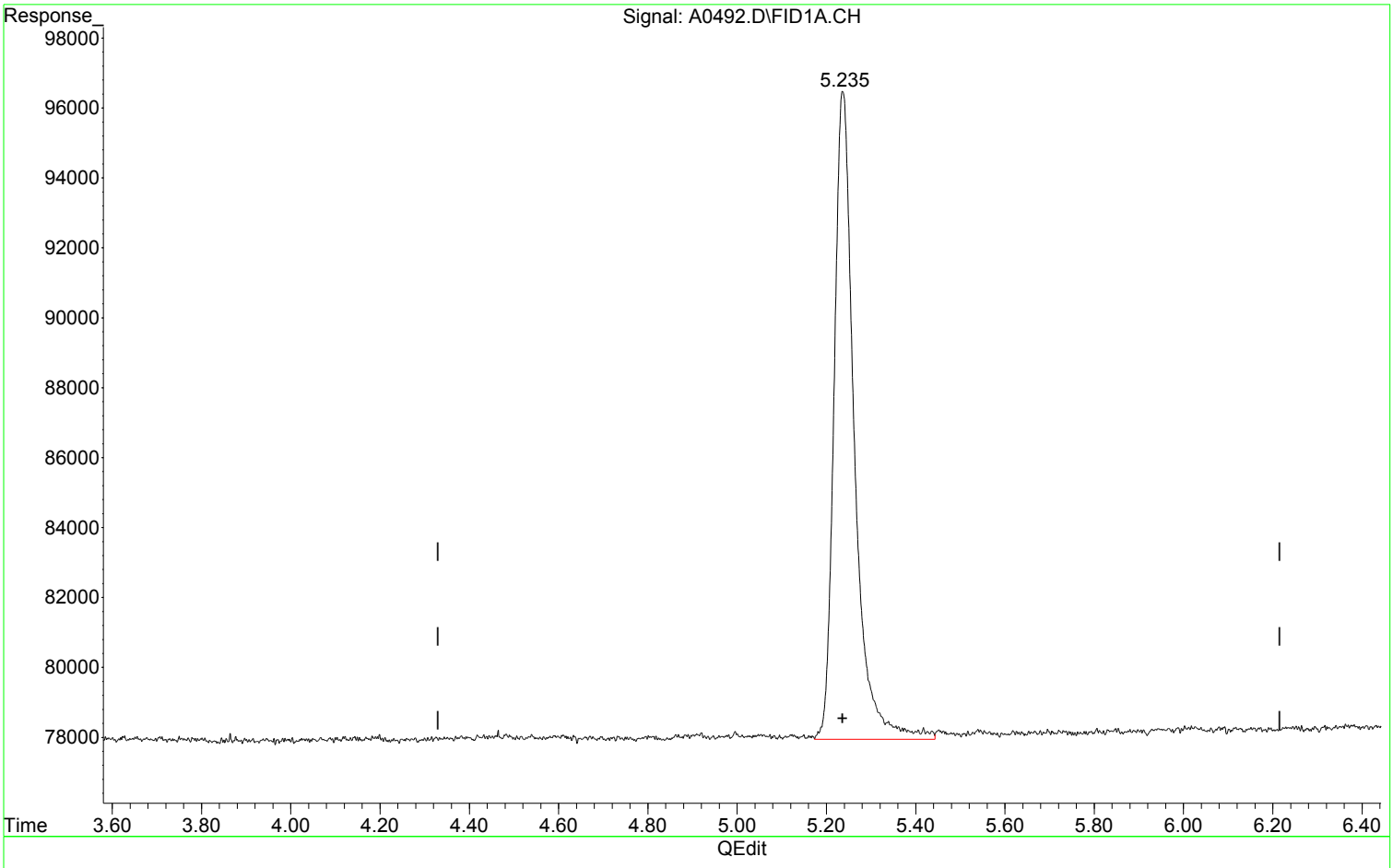
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0492.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:49 pm
Operator : F.NAEGLER
Sample : 10 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:58:10 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(5) Propane

5.235min 10.345 ug/L m

response 586565

Manual Integration:

After

Poor integration.

05/02/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.471	377393	6.147 ug/L
2)	Acetylene	2.226	204234	8.893 ug/L m
3)	Ethylene	2.420	167239	4.203 ug/L m
4)	Ethane	2.568	258223	4.795 ug/L m
5)	Propane	5.234	260025	4.586 ug/L m

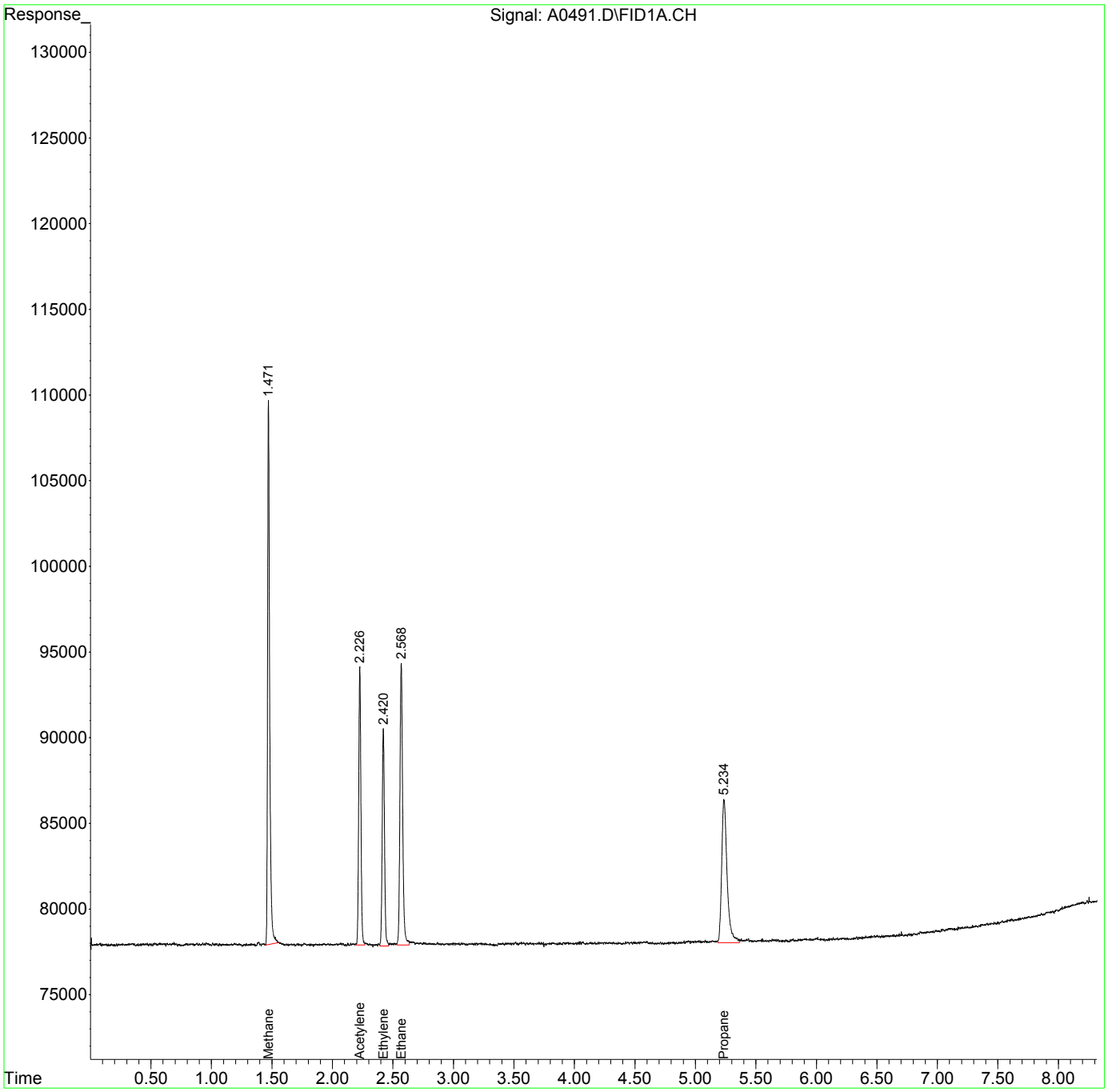
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

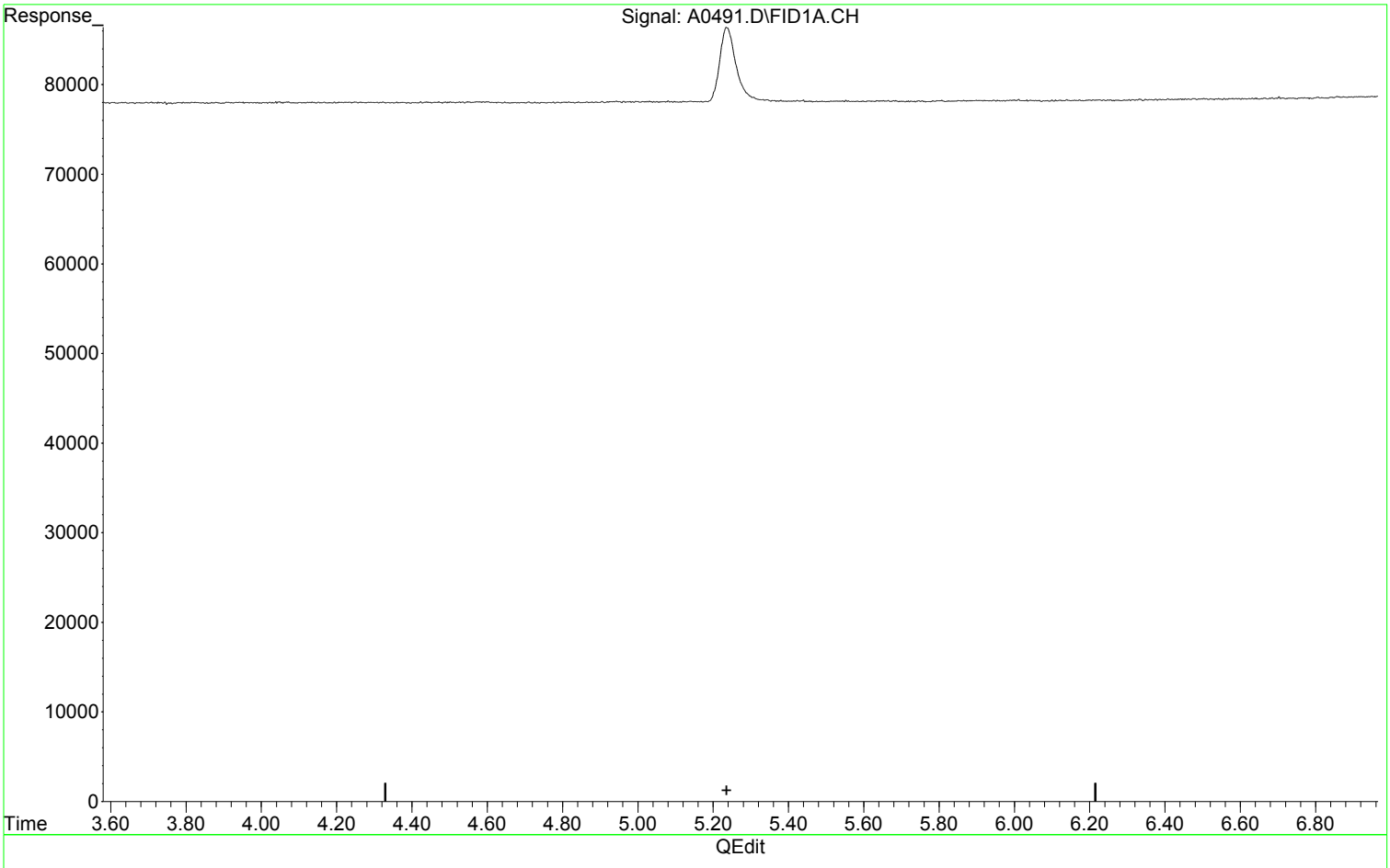


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(5) Propane
5.236min 0.000 ug/L
response 0

Manual Integration:
Before

05/02/24

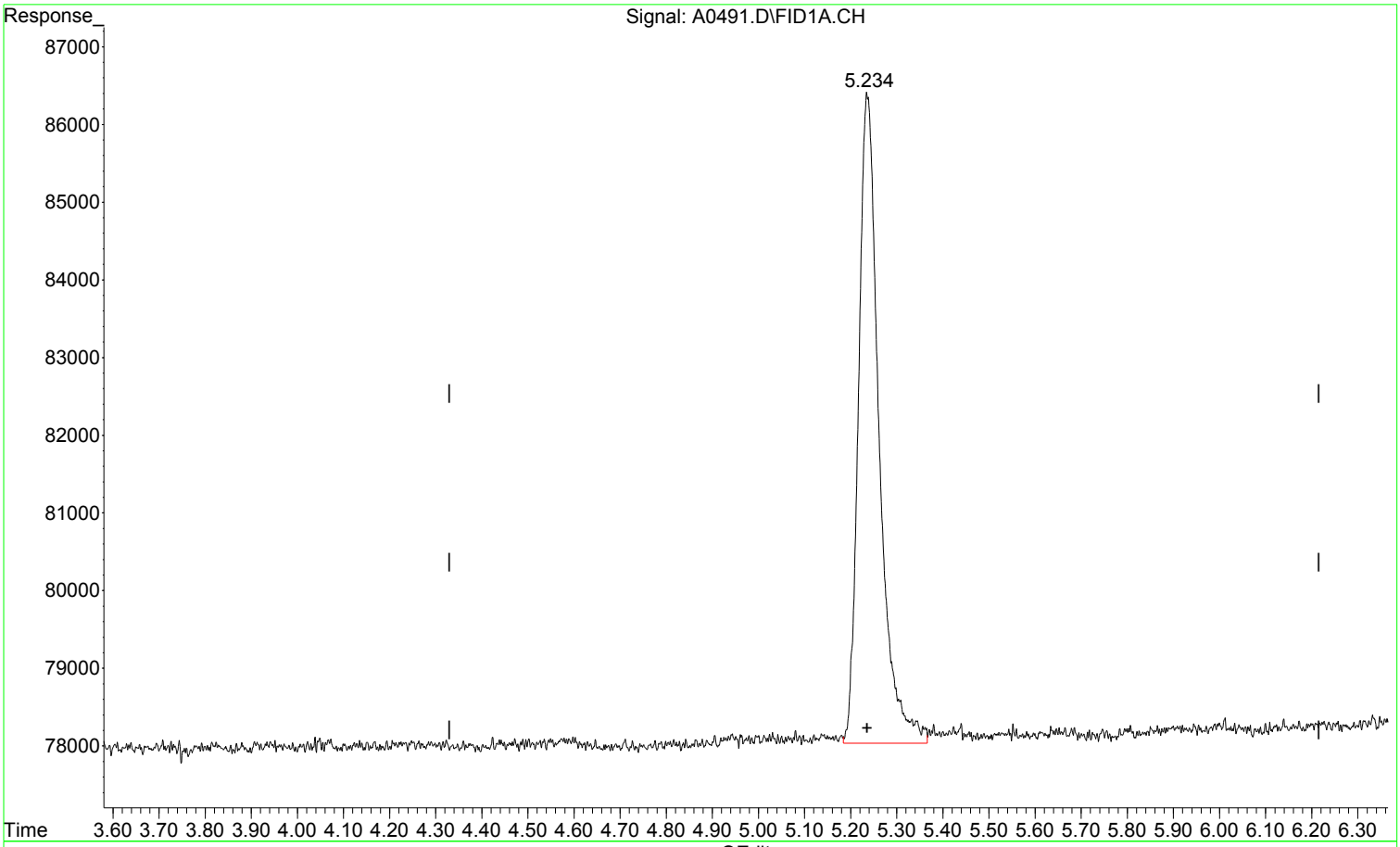
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(5) Propane
5.234min 4.586 ug/L m
response 260025

Manual Integration:
After
Peak not found.
05/02/24

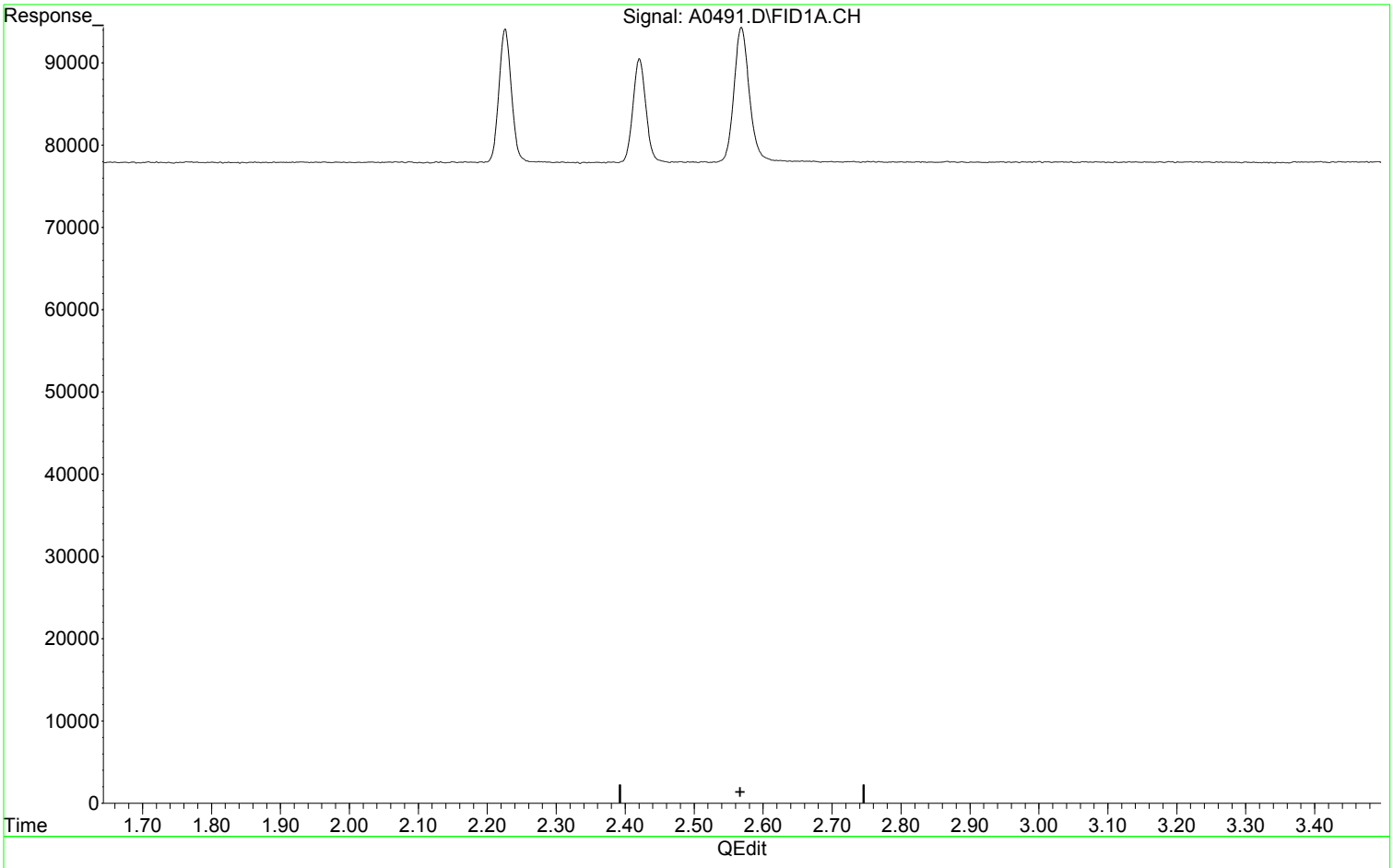
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.567min 0.000 ug/L
response 0

Manual Integration:
Before

05/02/24

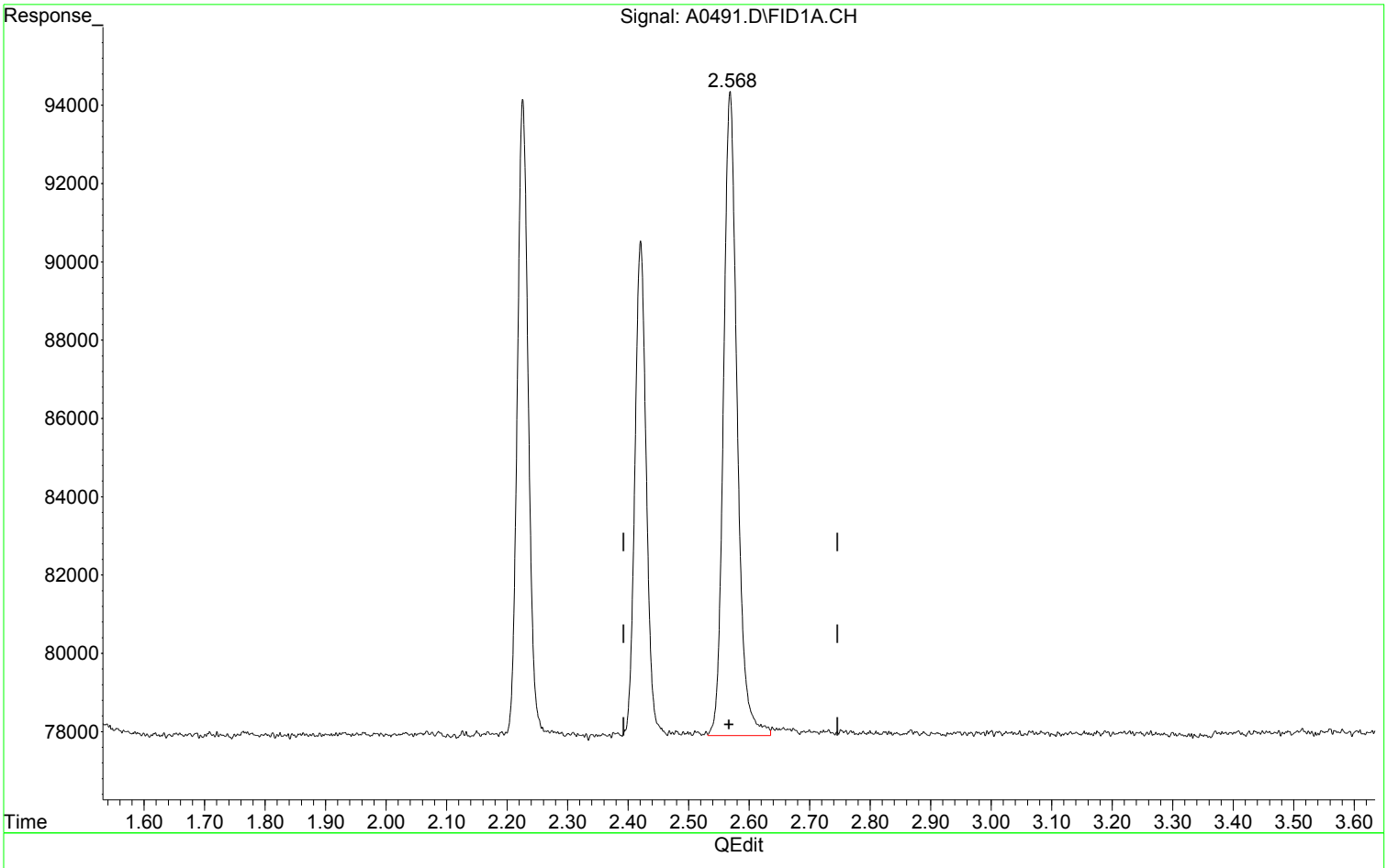
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.568min 4.795 ug/L m
response 258223

Manual Integration:
After
Peak not found.
05/02/24

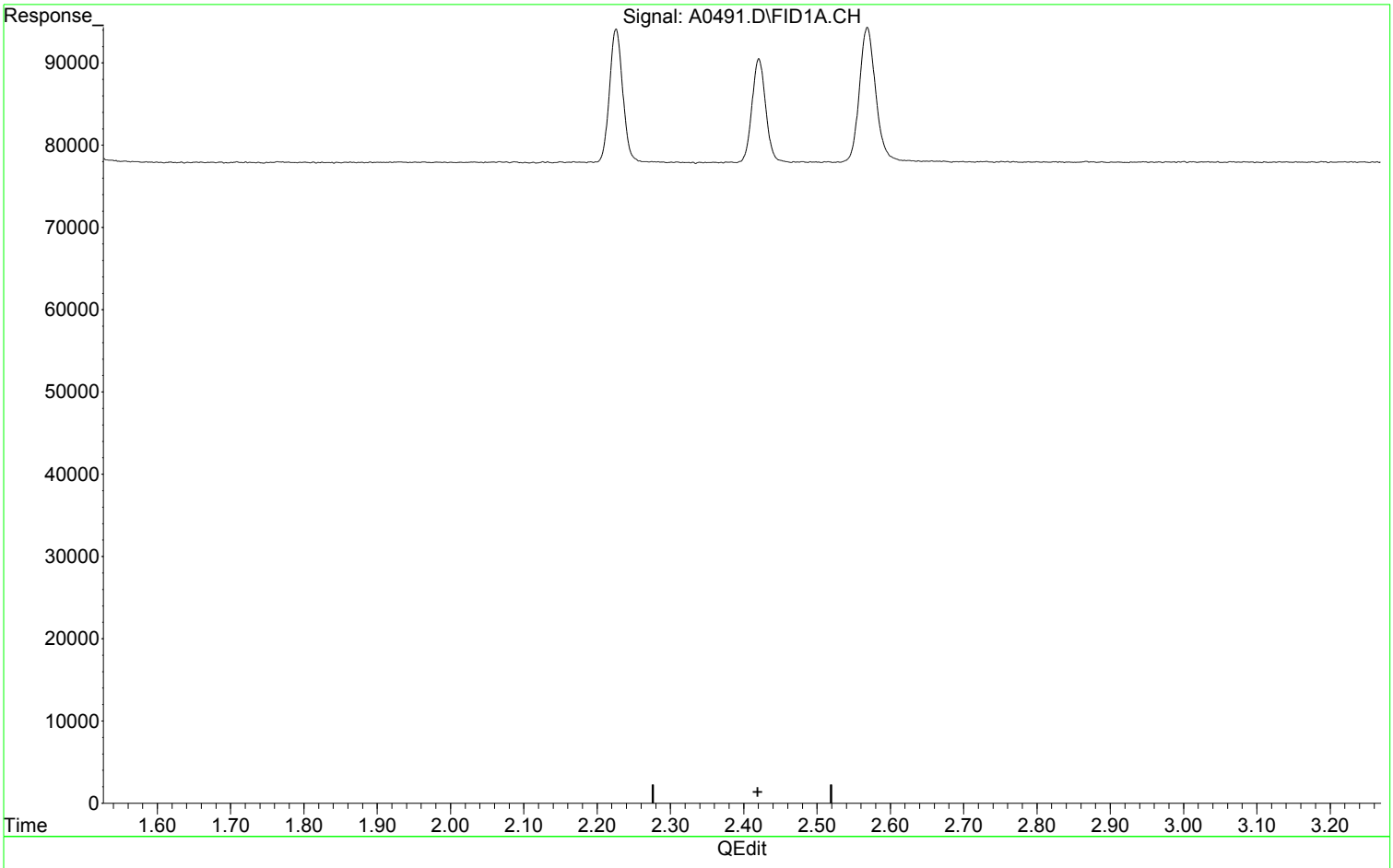
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(3) Ethylene
2.419min 0.000 ug/L
response 0

Manual Integration:
Before

05/02/24

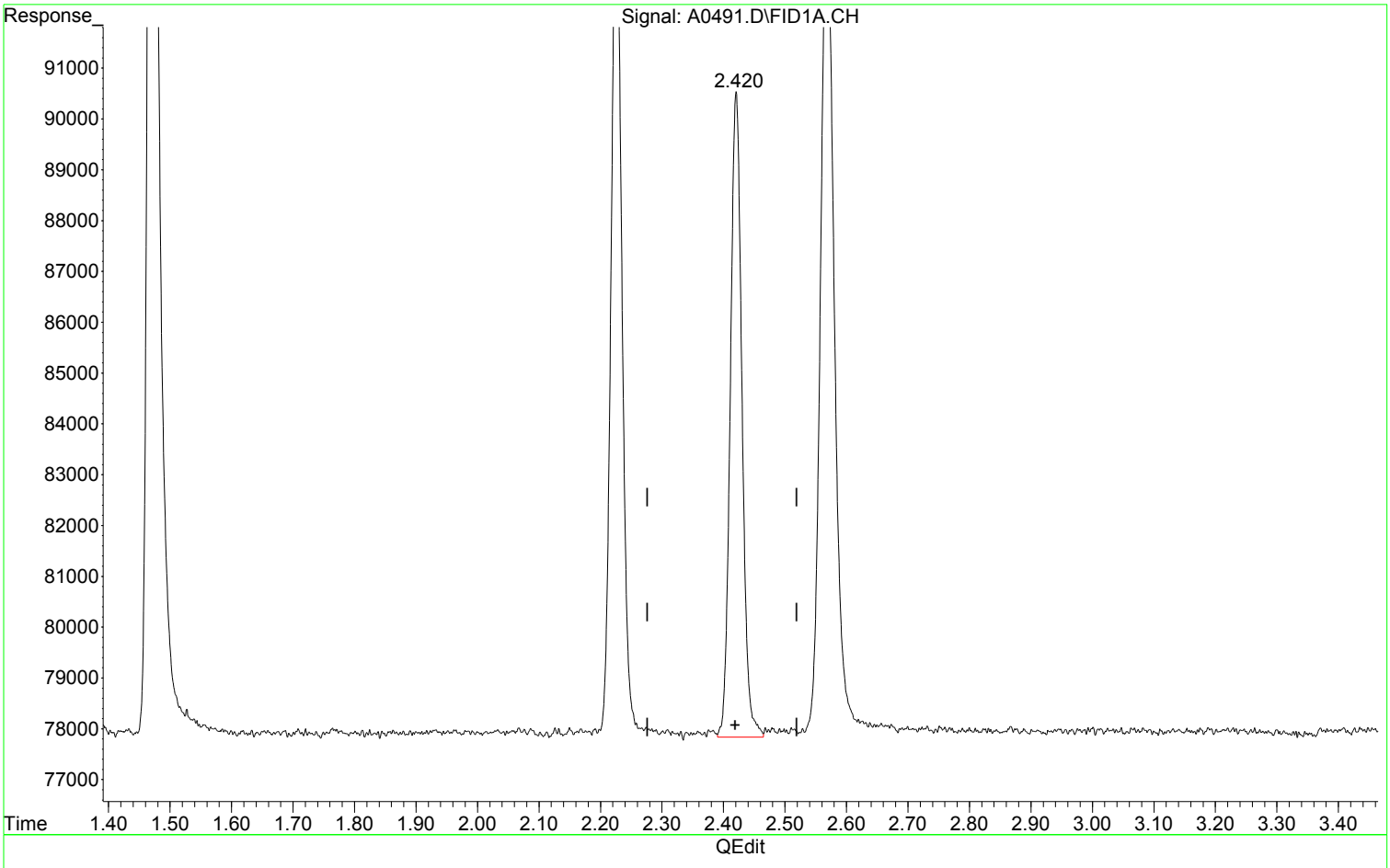
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(3) Ethylene
2.420min 4.203 ug/L m
response 167239

Manual Integration:
After
Peak not found.
05/02/24

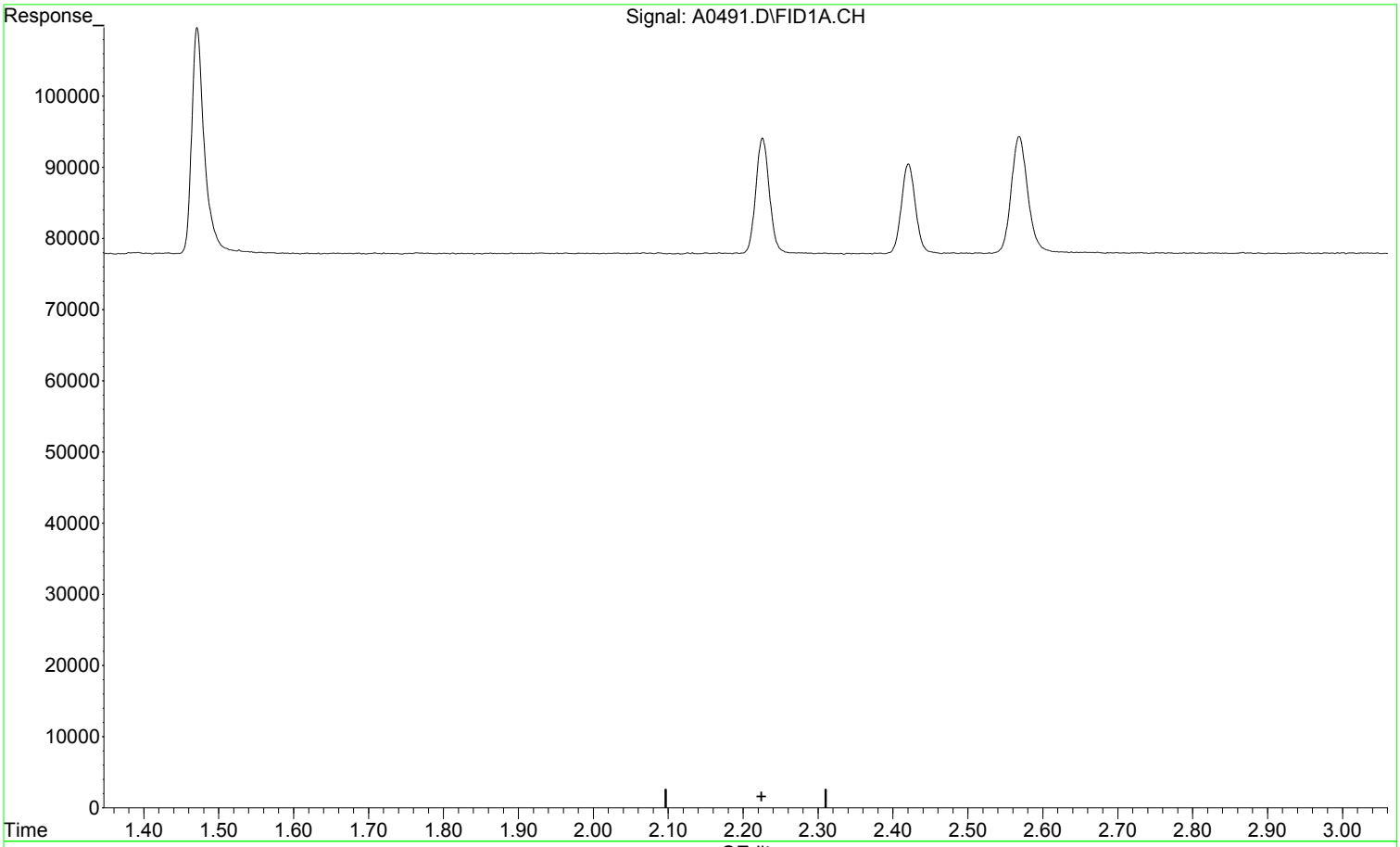
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(2) Acetylene
2.225min 0.000 ug/L
response 0

Manual Integration:
Before

05/02/24

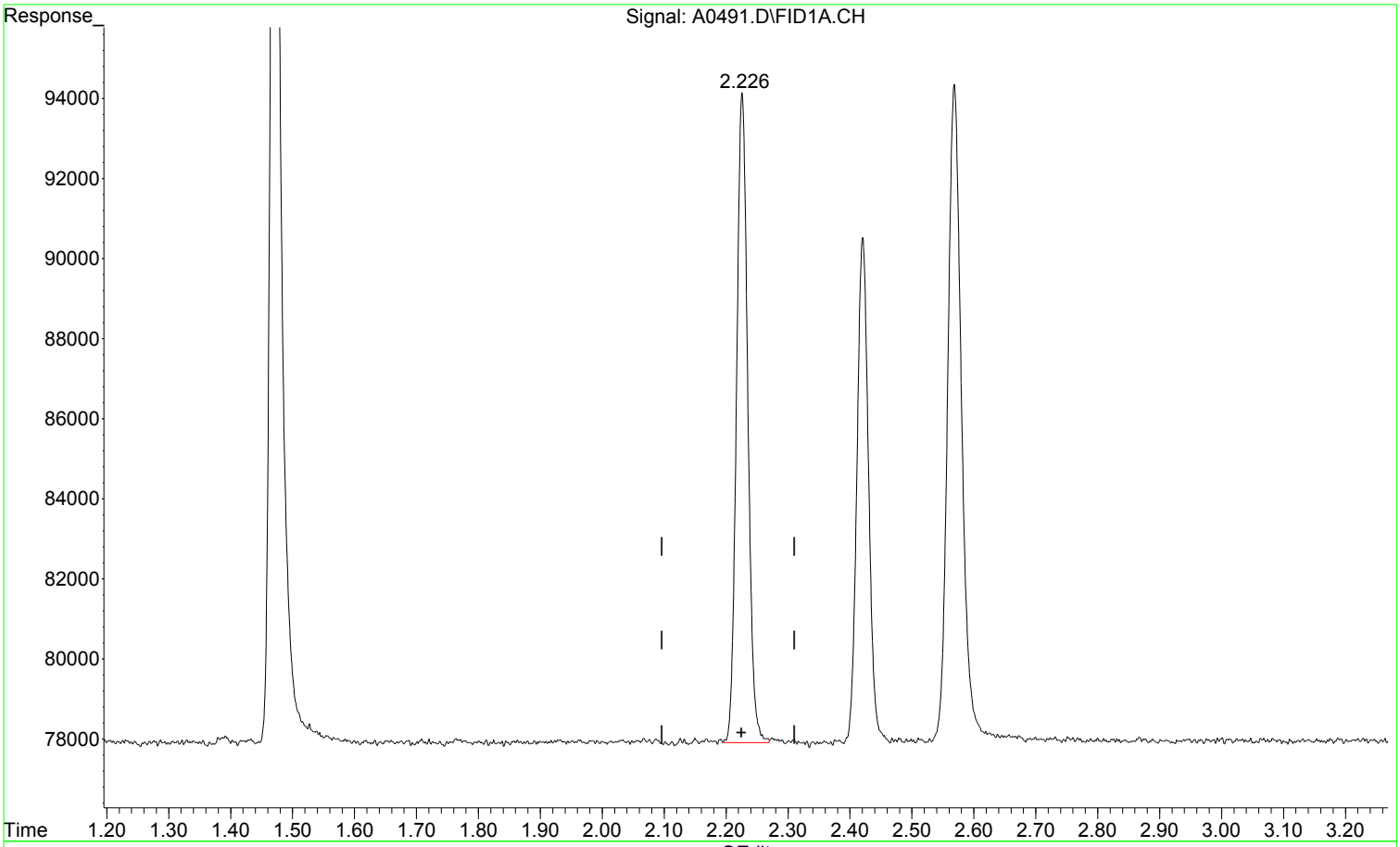
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(2) Acetylene
2.226min 8.893 ug/L m
response 204234

Manual Integration:
After
Peak not found.
05/02/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.481	296341	4.971	ug/L m
2)	Acetylene	0.000	0	N.D.	ug/L
3)	Ethylene	0.000	0	N.D.	ug/L
4)	Ethane	2.575	26859	0.496	ug/L m
5)	Propane	0.000	0	N.D.	ug/L

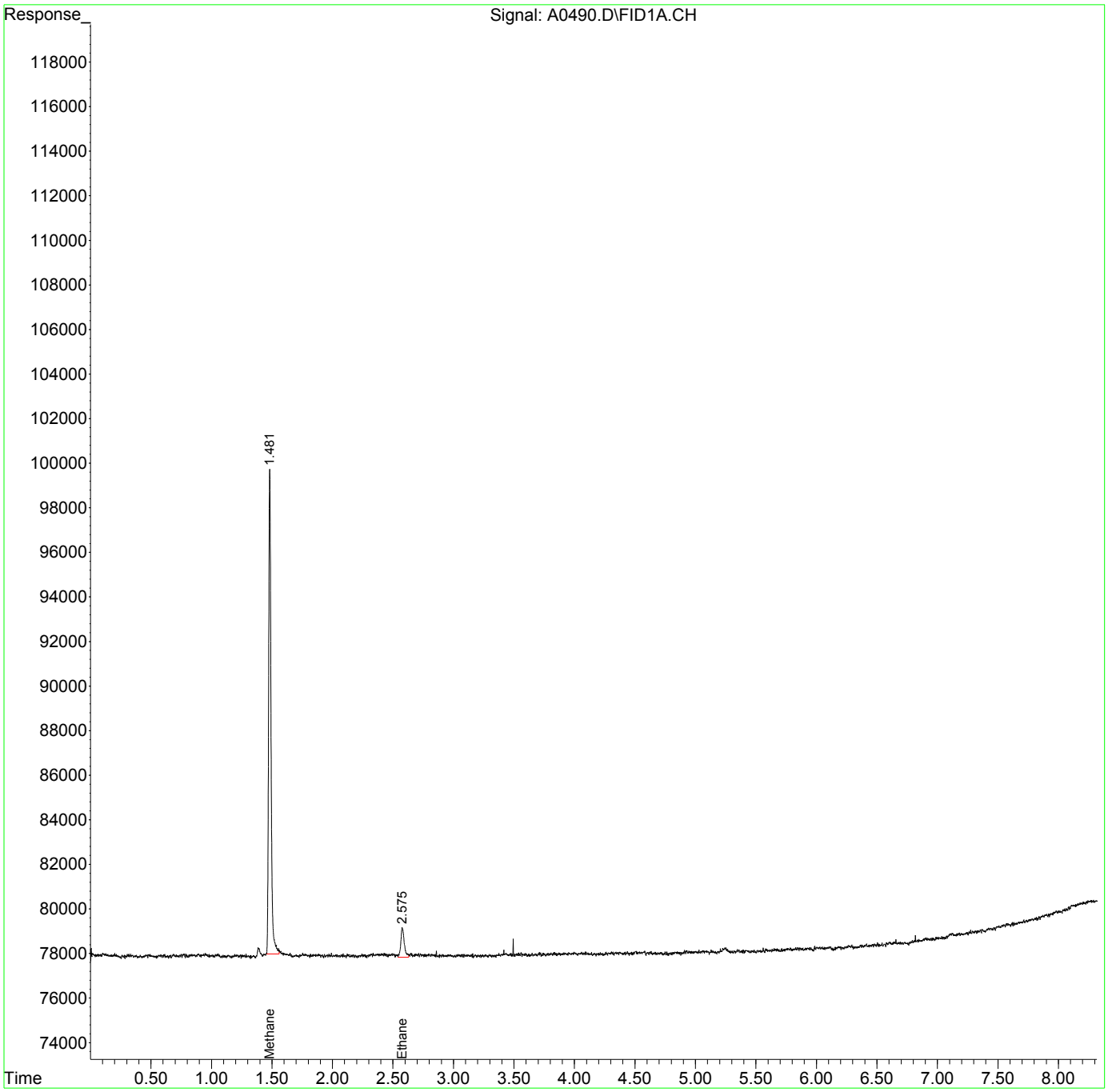
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

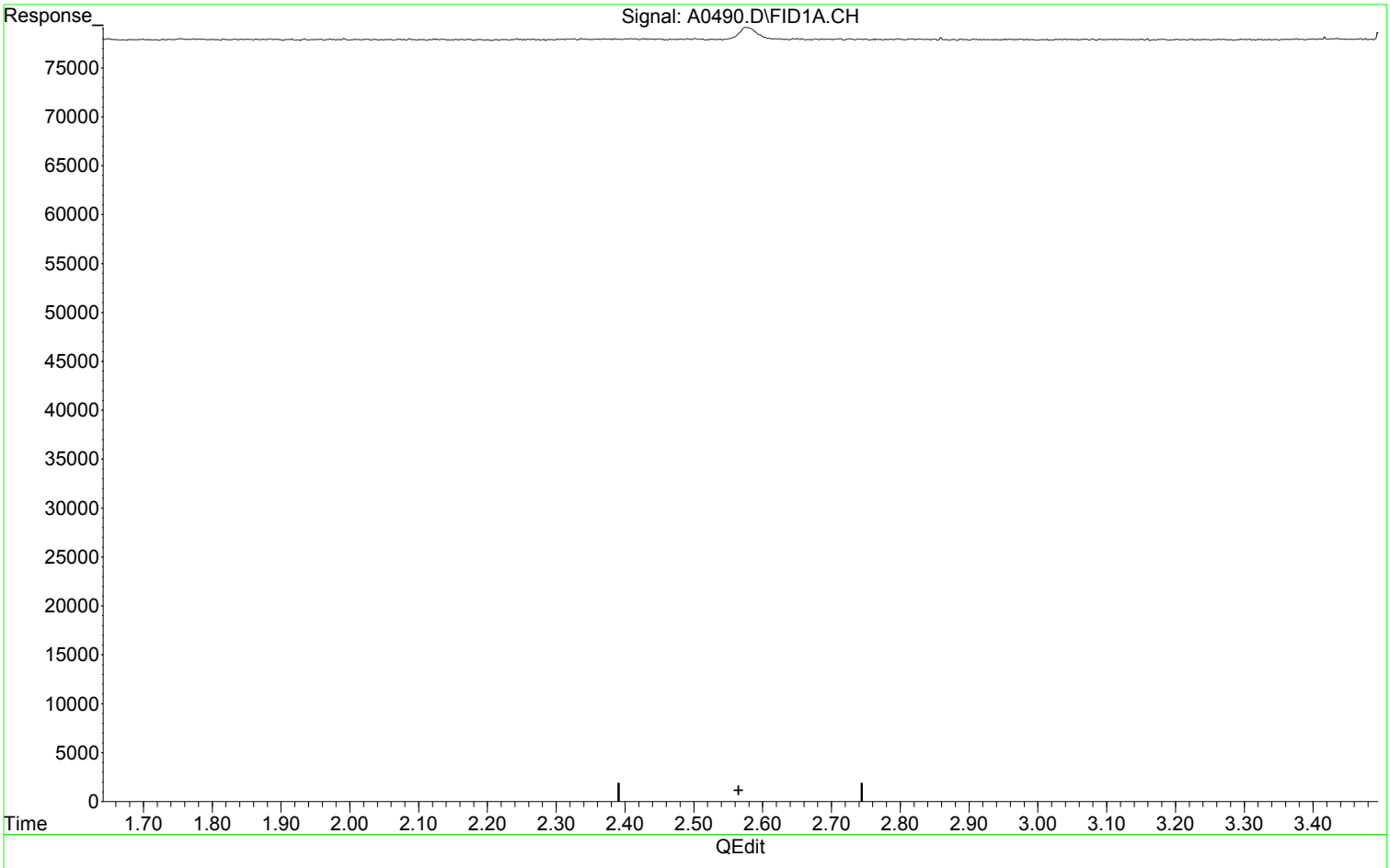


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.565min 0.000 ug/L
response 0

Manual Integration:
Before

05/02/24

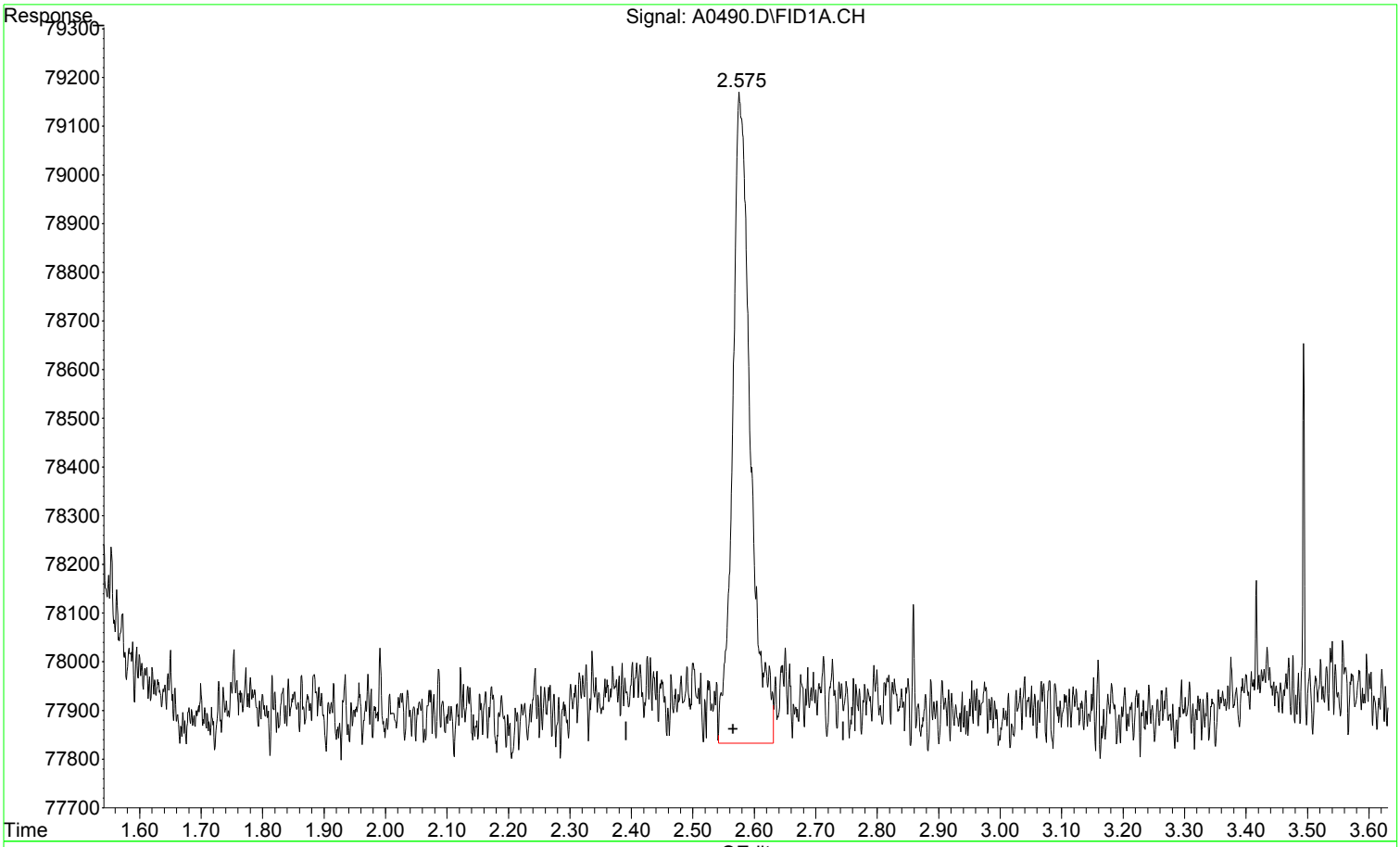
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane

2.575min 0.496 ug/L m

response 26859

Manual Integration:

After

Peak not found.

05/02/24

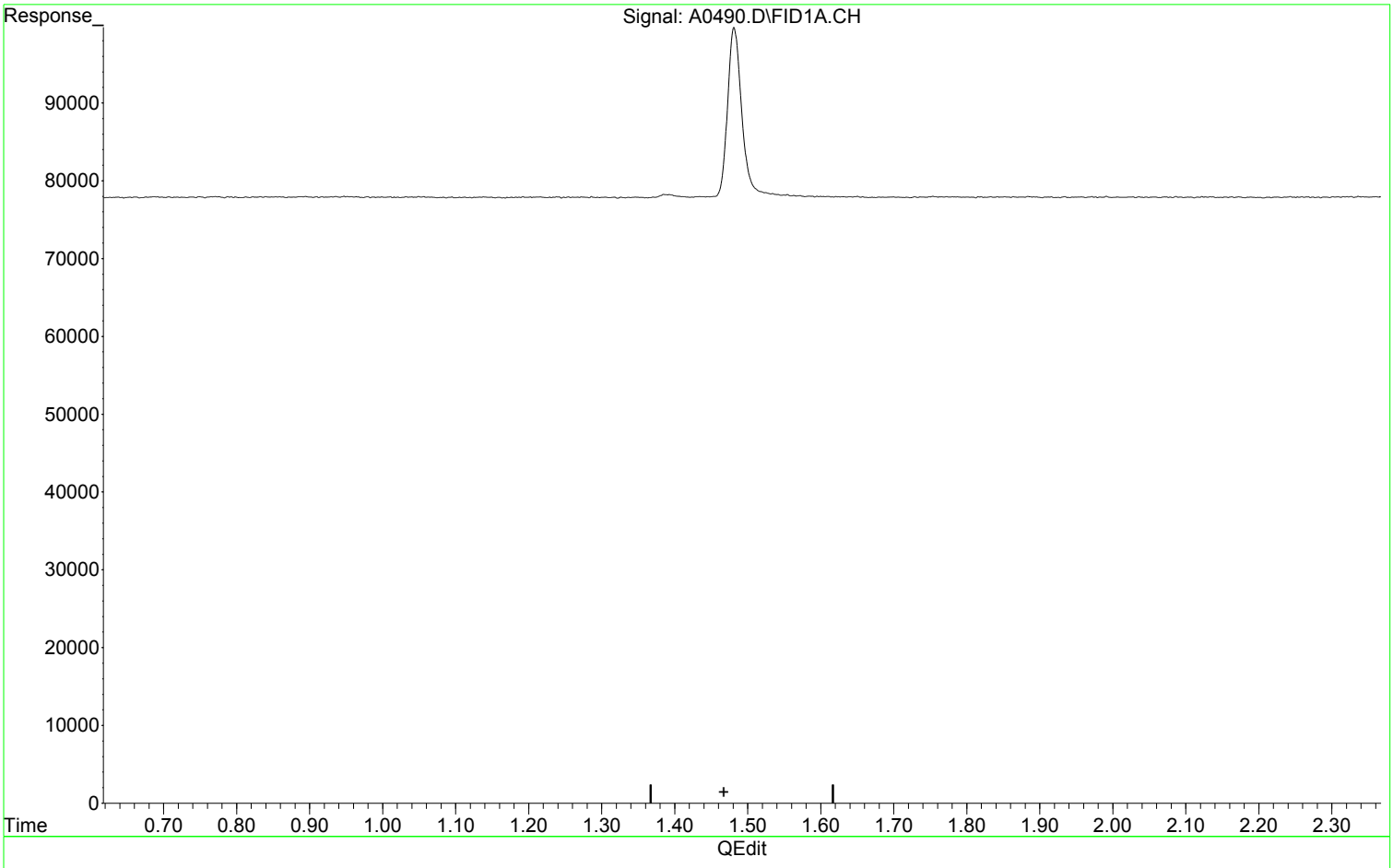
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.467min 0.000 ug/L

response 0

Manual Integration:

Before

05/02/24

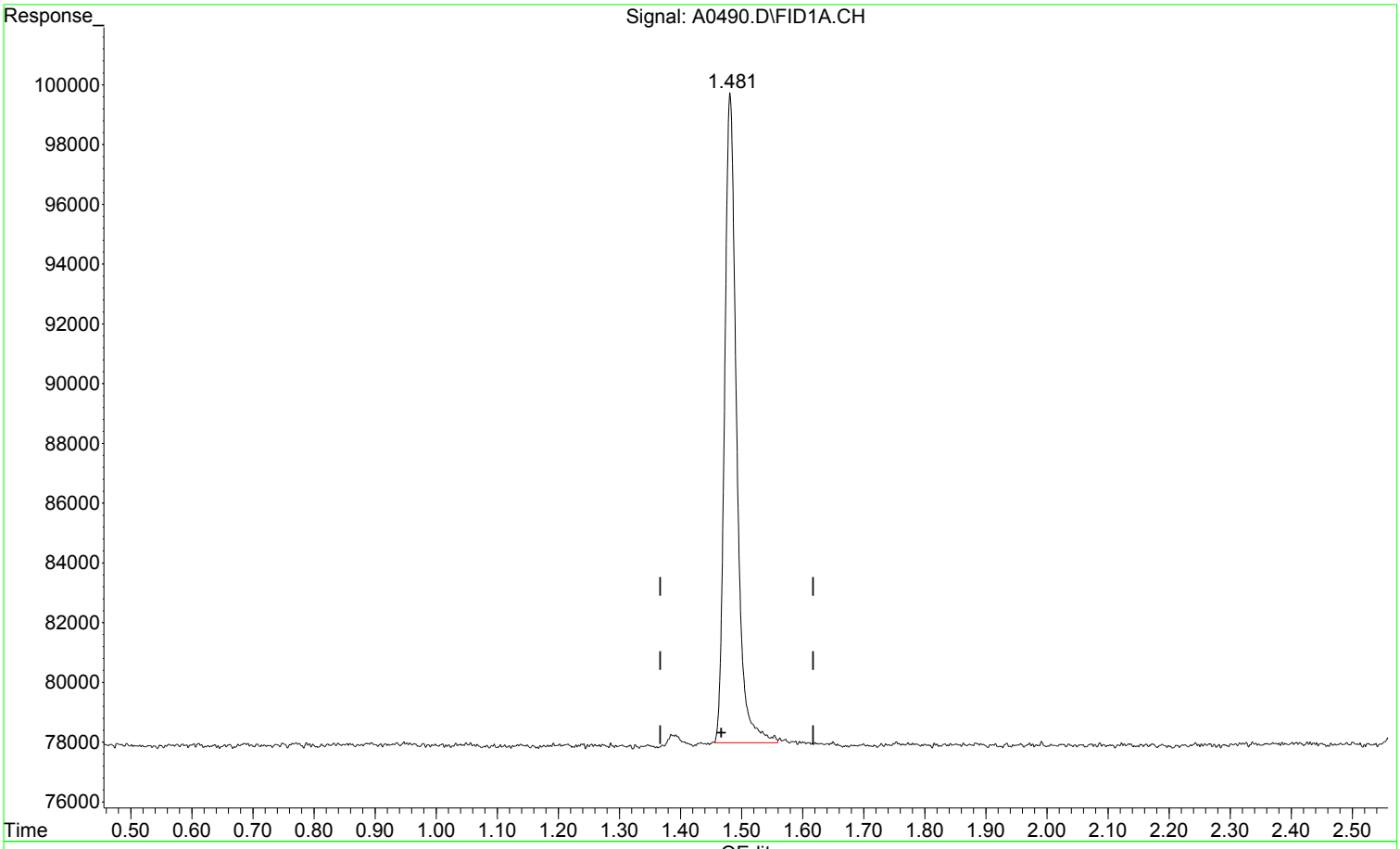
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.481min 4.971 ug/L m

response 296341

Manual Integration:

After

Peak not found.

05/02/24

(+) = Expected Retention Time

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2404674
Project: Olean OU3 9-Month **Calibration Date:** 5/2/2024

Initial Calibration Summary
Dissolved Gases by GC/FID

Calibration ID: RC2400082 **Signal ID:** 1
Instrument ID: R-GC-70

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC2400082-01	5 PPB STD	I:\ACQUDATA\GC-70\DATA\050224\A0491.D	05/02/2024 14:37
02	RC2400082-02	10 PPB STD	I:\ACQUDATA\GC-70\DATA\050224\A0492.D	05/02/2024 14:49
03	RC2400082-03	50 PPB STD	I:\ACQUDATA\GC-70\DATA\050224\A0493.D	05/02/2024 15:00
04	RC2400082-04	100 PPB STD	I:\ACQUDATA\GC-70\DATA\050224\A0494.D	05/02/2024 15:12
05	RC2400082-05	250 PPB STD	I:\ACQUDATA\GC-70\DATA\050224\A0495.D	05/02/2024 15:25
06	RC2400082-06	375 PPB STD	I:\ACQUDATA\GC-70\DATA\050224\A0496.D	05/02/2024 15:37
07	RC2400082-07	500 PPB STD	I:\ACQUDATA\GC-70\DATA\050224\A0497.D	05/02/2024 15:49

Analyte

Ethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.200	4.966E4	02	10.400	5.408E4	03	52.100	5.984E4	04	104.100	5.111E4
05	260.300	5.4E4	06	390.500	5.572E4	07	520.700	5.433E4			

Ethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	4.900	3.413E4	02	9.700	3.86E4	03	48.600	4.779E4	04	97.100	3.804E4
05	242.800	4.372E4	06	364.300	4.439E4	07	485.700	4.276E4			

Methane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.200	7.258E4	02	10.500	6.924E4	03	52.500	6.124E4	04	104.900	5.165E4
05	262.300	5.334E4	06	393.500	5.562E4	07	524.600	5.365E4			

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2404674
Project: Olean OU3 9-Month **Calibration Date:** 5/2/2024

Initial Calibration Summary
Dissolved Gases by GC/FID

Calibration ID: RC2400082 **Signal ID:** 1
Instrument ID: R-GC-70

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Ethane	TRG	Average RF	% RSD	6.1	≤20	5.41E4	
Ethene	TRG	Average RF	% RSD	11.2	≤20	4.135E4	
Methane	TRG	Average RF	% RSD	14.0	≤20	5.961E4	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2404674
Project: Olean OU3 9-Month **Calibration Date:** 5/2/2024

Initial Calibration Verification Summary
Dissolved Gases by GC/FID

Calibration ID: RC2400082 **Signal ID:** 1
Instrument ID: R-GC-70

#	Lab Code	Sample Name	File Location	Acquisition Date
08	RC2400082-08	250 PPB ICV	I:\ACQUDATA\GC-70\DATA\050224\A0499.D	05/02/2024 16:17

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Ethane	260	267	5.41E4	5.56E4	2.76	±15	Average RF
Ethene	243	254	4.135E4	4.318E4	4.42	±15	Average RF
Methane	262	240	5.961E4	5.455E4	-8.499	±15	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Analyzed:**	06/07/24 11:03

Continuing Calibration Verification (CCV) Summary
Dissolved Gases by GC/FID

Analysis Method:	RSK 175	**Calibration Date:**	5/2/2024
File ID:	I:\ACQUDATA\GC-70\DATA\060724\A0555.D\	**Calibration ID:**	RC2400082
Signal ID:	1	**Analysis Lot:**	843395
		Units:	ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Ethane	260	284	5.41E4	5.91E4	109	NA	85-115	Average RF
Ethene	243	275	4.135E4	4.69E4	113	NA	85-115	Average RF
Methane	262	261	5.961E4	5.943E4	99.7	NA	85-115	Average RF

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 9-Month/300-082.0043

Service Request: R2404674
Date Analyzed: 06/07/24 14:47

Continuing Calibration Verification (CCV) Summary
Dissolved Gases by GC/FID

Analysis Method: RSK 175
File ID: I:\ACQUDATA\GC-70\DATA\060724\A0568.D\
Signal ID: 1

Calibration Date: 5/2/2024
Calibration ID: RC2400082
Analysis Lot: 843395
Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Ethane	260	274	5.41E4	5.702E4	105	NA	85-115	Average RF
Ethene	243	269	4.135E4	4.577E4	111	NA	85-115	Average RF
Methane	262	254	5.961E4	5.77E4	96.8	NA	85-115	Average RF

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 9-Month/300-082.0043

Service Request: R2404674
Date Analyzed: 06/07/24 17:20

Continuing Calibration Verification (CCV) Summary
Dissolved Gases by GC/FID

Analysis Method: RSK 175
File ID: I:\ACQUDATA\GC-70\DATA\060724\A0580.D\
Signal ID: 1

Calibration Date: 5/2/2024
Calibration ID: RC2400082
Analysis Lot: 843395
Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Ethane	260	258	5.41E4	5.367E4	99.2	NA	85-115	Average RF
Ethene	243	255	4.135E4	4.349E4	105	NA	85-115	Average RF
Methane	262	237	5.961E4	5.388E4	90.4	NA	85-115	Average RF

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2404674
Project: Olean OU3 9-Month/300-082.0043

Analysis Run Log
Dissolved Gases by GC/FID

Analysis Method: RSK 175 **Analysis Lot:**843395
Instrument ID:R-GC-70

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\GC-70\DATA\060724\A0555.D\	Continuing Calibration Verification	RQ2406492-01	6/7/2024	11:03:00	
I:\ACQUDATA\GC-70\DATA\060724\A0556.D\	Method Blank	RQ2406492-02	6/7/2024	11:15:00	
I:\ACQUDATA\GC-70\DATA\060724\A0557.D\	Lab Control Sample	RQ2406492-03	6/7/2024	11:29:00	
I:\ACQUDATA\GC-70\DATA\060724\A0558.D\	ZZZZZZZ	ZZZZZZZ	6/7/2024	12:37:00	
I:\ACQUDATA\GC-70\DATA\060724\A0559.D\	OLN-RU009-F008	R2404674-001	6/7/2024	12:51:00	
I:\ACQUDATA\GC-70\DATA\060724\A0560.D\	OLN-FB001-B008	R2404674-002	6/7/2024	13:05:00	
I:\ACQUDATA\GC-70\DATA\060724\A0561.D\	OLN-RU010-F008	R2404674-004	6/7/2024	13:21:00	
I:\ACQUDATA\GC-70\DATA\060724\A0562.D\	OLN-RU015-F008	R2404674-005	6/7/2024	13:32:00	
I:\ACQUDATA\GC-70\DATA\060724\A0563.D\	ZZZZZZZ	ZZZZZZZ	6/7/2024	13:44:00	
I:\ACQUDATA\GC-70\DATA\060724\A0564.D\	OLN-RU019-F008	R2404674-006	6/7/2024	14:00:00	
I:\ACQUDATA\GC-70\DATA\060724\A0565.D\	OLN-RU020-F008	R2404674-007	6/7/2024	14:12:00	
I:\ACQUDATA\GC-70\DATA\060724\A0566.D\	OLN-RU021-F008	R2404674-008	6/7/2024	14:23:00	
I:\ACQUDATA\GC-70\DATA\060724\A0567.D\	OLN-RU027A-F008	R2404674-009	6/7/2024	14:35:00	
I:\ACQUDATA\GC-70\DATA\060724\A0568.D\	Continuing Calibration Verification	RQ2406492-04	6/7/2024	14:47:00	
I:\ACQUDATA\GC-70\DATA\060724\A0569.D\	OLN-RU028-F008	R2404674-010	6/7/2024	14:59:00	
I:\ACQUDATA\GC-70\DATA\060724\A0570.D\	OLN-UA002-F008	R2404674-011	6/7/2024	15:10:00	
I:\ACQUDATA\GC-70\DATA\060724\A0571.D\	OLN-UA002-F008	R2404674-011	6/7/2024	15:22:00	
I:\ACQUDATA\GC-70\DATA\060724\A0572.D\	OLN-UA002-F008 MS	RQ2406492-05	6/7/2024	15:33:00	
I:\ACQUDATA\GC-70\DATA\060724\A0573.D\	OLN-UA002-F008 DMS	RQ2406492-06	6/7/2024	15:45:00	
I:\ACQUDATA\GC-70\DATA\060724\A0576.D\	OLN-FB002-B008	R2404674-014	6/7/2024	16:22:00	
I:\ACQUDATA\GC-70\DATA\060724\A0577.D\	OLN-EB001-E008	R2404674-016	6/7/2024	16:33:00	
I:\ACQUDATA\GC-70\DATA\060724\A0578.D\	OLN-FD001-D008	R2404674-013	6/7/2024	16:46:00	
I:\ACQUDATA\GC-70\DATA\060724\A0579.D\	OLN-FD001-D008	R2404674-013	6/7/2024	17:09:00	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2404674
Project: Olean OU3 9-Month/300-082.0043

Analysis Run Log
Dissolved Gases by GC/FID

Analysis Method: RSK 175 **Analysis Lot:**843395
Instrument ID:R-GC-70

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\GC-70\DATA\060724 \A0580.D\	Continuing Calibration Verification	RQ2406492-07	6/7/2024	17:20:00	

Analysis: RSK.175 Analyst: F. Ingle Run Method: RSK.M

Date: 6/7/24 Data Path: J:\Acqudata\70\Data\060724 RSK050224.M

Instr. GC-70 LIMS Run#: 843395

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
	BLK								A0553	Y	
	BLK								54	Y	
	CCV								55	Y	
	MBLK								56	Y	
	LCS								57	Y	
	R2404736-001	1.0		—	2722	2	1	<2	58	(Y)	Rpt 1/100
	R2404674-001	1.0		—	979	4	1	<2	59	Y	
	-002	1.0		—	↓	↓	1	<2	60	Y	
	-004	1.0		—	↓	↓	1	<2	61	Y	
	-005	1.0		—	↓	↓	1	<2	62	Y	
	R2404736-001	100.0	(1/5mL) → 50mL	—	2722	2	2	<2	63	Y	DL
	R2404674-006	20.0	5mL	—	979	4	1	<2	64	Y	
	-007	10.0	10mL	—	↓	↓	1	<2	65	Y	
	-008	50.0	(1/5mL) → 100mL	—	↓	↓	1	<2	66	Y	
	-009	20.0	5mL	—	↓	↓	1	<2	67	Y	
	CCV								68	Y	
	R2404674.010	1.0		—	979	4	1	<2	69	Y	
	-011S	1.0		—	↓	↓	1	<2	70	(Y)	Rpt 1/2
	-011	2.0	5mL	—	↓	↓	1	<2	71	Y	DL
	-011MS	2.0	↓	—	↓	↓	2	<2	72	Y	
	-011MSD	2.0	↓	—	↓	↓	3	<2	73	Y	
	-013	1.0		—	↓	↓	1	<2	74	(N)	Rpt 1/20
	-013T	20.0	5mL	—	↓	↓	1	<2	75	(N)	
	-014	1.0		—	↓	↓	1	<2	76	Y	
	-016	1.0		—	↓	↓	1	<2	77	Y	
	-013	1.0		—	↓	↓	2	<2	78	(Y)	Rpt 1/100
	-013	100.0	(1/50mL) → 50mL	—	↓	↓	3	<2	79	Y	DL
	CCV								80	Y	
				EJ 6/7/24							

All samples = _____mL + _____uL Surrogate _____mL purged

Primary : 234908 - 100mL/42.5mL (CCV)
Primary :
Primary :
Primary :

Secondary : 234909 - 50mL/42.5mL (LCS) Surrogate — : —
Secondary : — 100mL/42.5mL (SPK)
Secondary :
Secondary :

Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/28/24 16:06
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU009-F008	**Units:**	mg/L
Lab Code:	R2404674-001	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	06/07/24 15:24	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	06/07/24 15:24	
Propionic Acid	2.0 U	2.0	1.1	1	06/07/24 15:24	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/28/24 16:53
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-FB001-B008	**Units:**	mg/L
Lab Code:	R2404674-002	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	06/07/24 15:56	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	06/07/24 15:56	
Propionic Acid	2.0 U	2.0	1.1	1	06/07/24 15:56	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 17:50
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU010-F008	**Units:**	mg/L
Lab Code:	R2404674-004	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**1.2**	1.0	0.56	1	06/07/24 16:28	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	06/07/24 16:28	
Propionic Acid	2.0 U	2.0	1.1	1	06/07/24 16:28	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 08:42
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU015-F008	**Units:**	mg/L
Lab Code:	R2404674-005	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	06/07/24 17:01	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	06/07/24 17:01	
Propionic Acid	2.0 U	2.0	1.1	1	06/07/24 17:01	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 17:20
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU019-F008	**Units:**	mg/L
Lab Code:	R2404674-006	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**230**	2.0	1.2	2	06/19/24 02:38	
Butanoic Acid (Butyric Acid)	**210**	20	10	2	06/19/24 02:38	
Propionic Acid	**120**	4.0	2.2	2	06/19/24 02:38	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 14:55
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU020-F008	**Units:**	mg/L
Lab Code:	R2404674-007	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	06/07/24 18:05	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	06/07/24 18:05	
Propionic Acid	2.0 U	2.0	1.1	1	06/07/24 18:05	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 16:11
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU021-F008	**Units:**	mg/L
Lab Code:	R2404674-008	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**54**	1.0	0.56	1	06/07/24 18:38	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	06/07/24 18:38	
Propionic Acid	**10**	2.0	1.1	1	06/07/24 18:38	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 14:21
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU027A-F008	**Units:**	mg/L
Lab Code:	R2404674-009	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**230**	2.0	1.2	2	06/19/24 03:11	
Butanoic Acid (Butyric Acid)	20 U	20	10	2	06/19/24 03:11	
Propionic Acid	**54**	4.0	2.2	2	06/19/24 03:11	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 12:35
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU028-F008	**Units:**	mg/L
Lab Code:	R2404674-010	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	06/07/24 19:42	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	06/07/24 19:42	
Propionic Acid	2.0 U	2.0	1.1	1	06/07/24 19:42	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 10:10
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-UA002-F008	**Units:**	mg/L
Lab Code:	R2404674-011	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	06/07/24 20:47	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	06/07/24 20:47	
Propionic Acid	2.0 U	2.0	1.1	1	06/07/24 20:47	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 07:00
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-FD001-D008	**Units:**	mg/L
Lab Code:	R2404674-013	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**52**	1.0	0.56	1	06/07/24 22:24	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	06/07/24 22:24	
Propionic Acid	**10**	2.0	1.1	1	06/07/24 22:24	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 17:25
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-FB002-B008	**Units:**	mg/L
Lab Code:	R2404674-014	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	06/07/24 22:57	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	06/07/24 22:57	
Propionic Acid	2.0 U	2.0	1.1	1	06/07/24 22:57	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/30/24 16:30
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-EB001-E008	**Units:**	mg/L
Lab Code:	R2404674-016	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	06/07/24 23:29	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	06/07/24 23:29	
Propionic Acid	2.0 U	2.0	1.1	1	06/07/24 23:29	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006852.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 15:24:12
Operator : AFelser
Sample : R2404674-001
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:38:41 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:36:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) t	Formic acid	0.000	0	N.D.	ppm
2) T	Pyruvic acid	0.000	0	N.D.	ppm
3) T	Lactic Acid	0.000	0	N.D.	ppm
4) T	Acetic Acid	0.000	0	N.D.	ppm
5) T	Propionic Acid	7.387	-4507	N.D.	ppm
6) T	Butyric Acid	0.000	0	N.D.	ppm

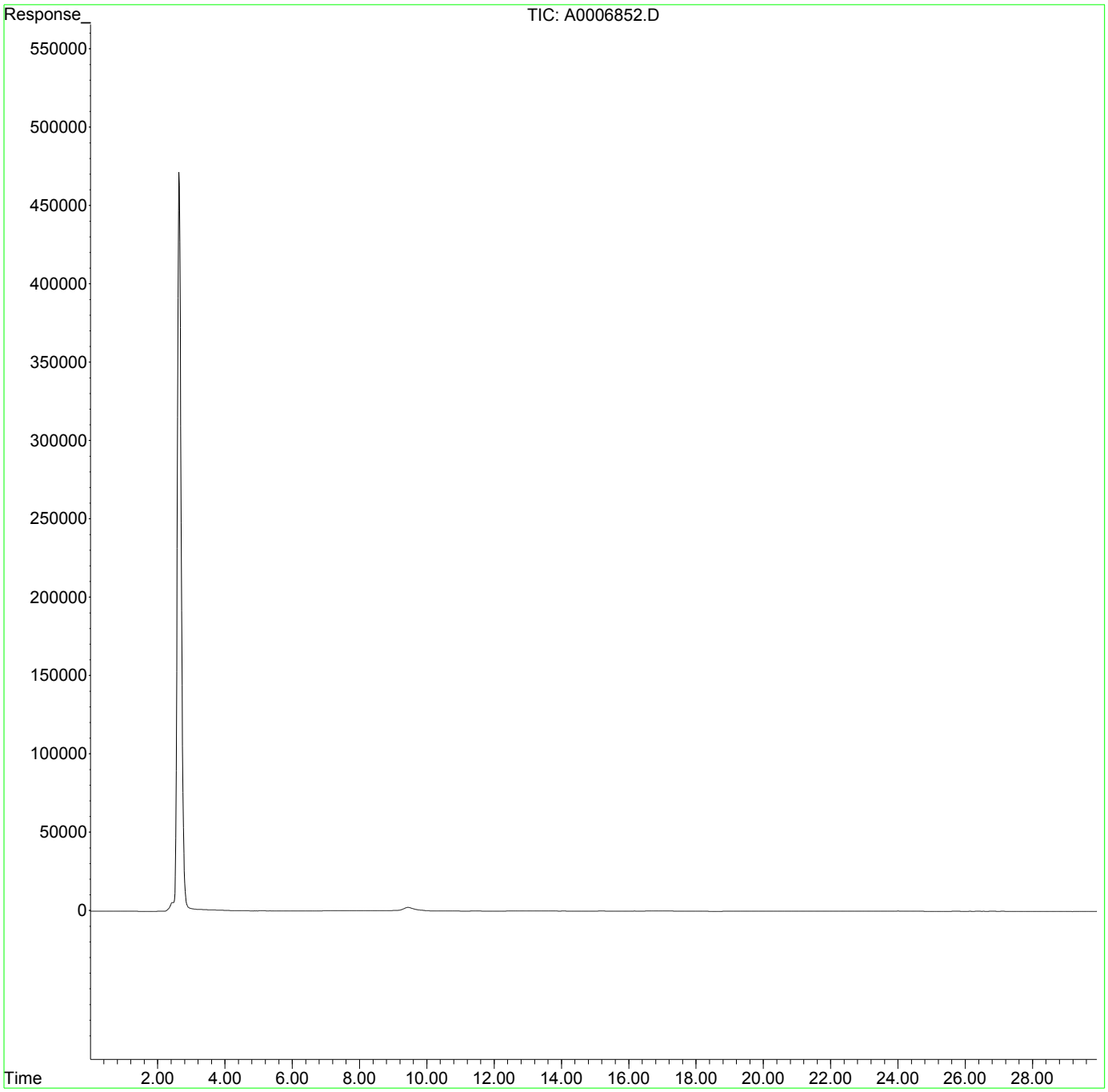
(f)=RT Delta > 1/2 Window (m)=manual int.

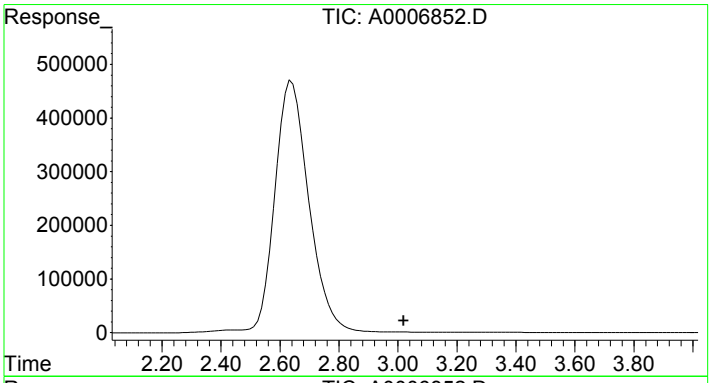
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006852.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 15:24:12
Operator : AFelser
Sample : R2404674-001
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:38:41 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:36:48 2024
Response via : Initial Calibration
Integrator: ChemStation

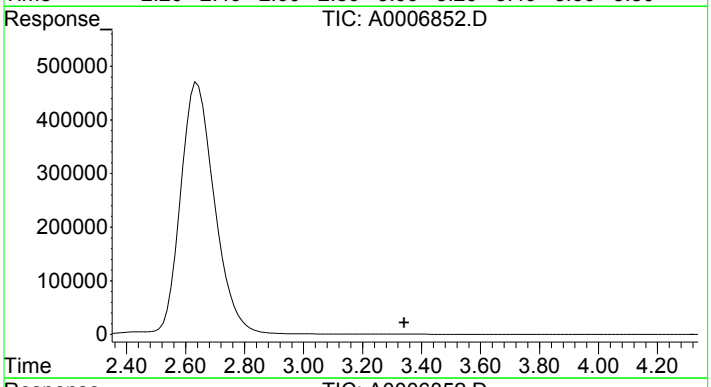
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





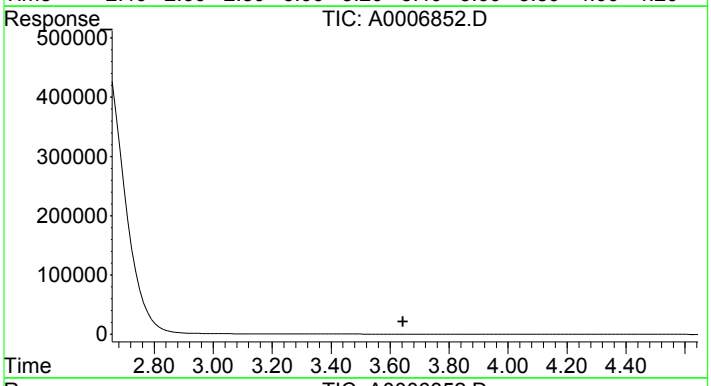
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.020 min
Response: 0
Conc: N.D.



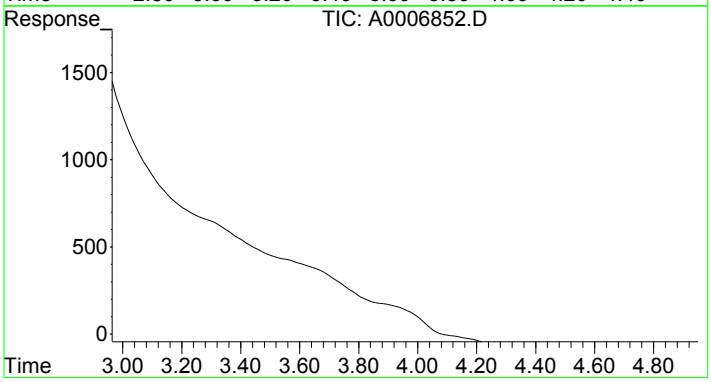
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.342 min
Response: 0
Conc: N.D.



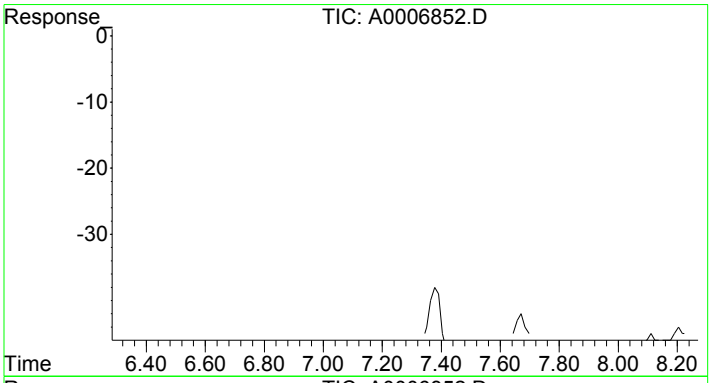
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.644 min
Response: 0
Conc: N.D.



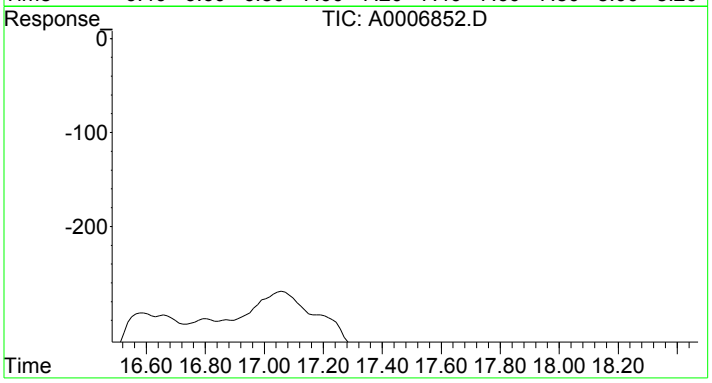
#4 Acetic Acid

R.T.: 0.000 min
Exp R.T. : 3.957 min
Response: 0
Conc: N.D.



#5 Propionic Acid

R.T.: 7.387 min
Delta R.T.: 0.114 min
Response: -4507
Conc: N.D.



#6 Butyric Acid

R.T.: 0.000 min
Exp R.T. : 17.483 min
Response: 0
Conc: N.D.

1st 06/10/24
2nd 06/12/24

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006853.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 15:56:33
Operator : AFelser
Sample : R2404674-002
Misc :
ALS Vial : 36 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:38:43 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:36:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	d
2) T	Pyruvic acid	0.000	0	N.D.	ppm	d
3) T	Lactic Acid	0.000	0	N.D.	ppm	d
4) T	Acetic Acid	0.000	0	N.D.	ppm	d
5) T	Propionic Acid	0.000	0	N.D.	ppm	
6) T	Butyric Acid	0.000	0	N.D.	ppm	

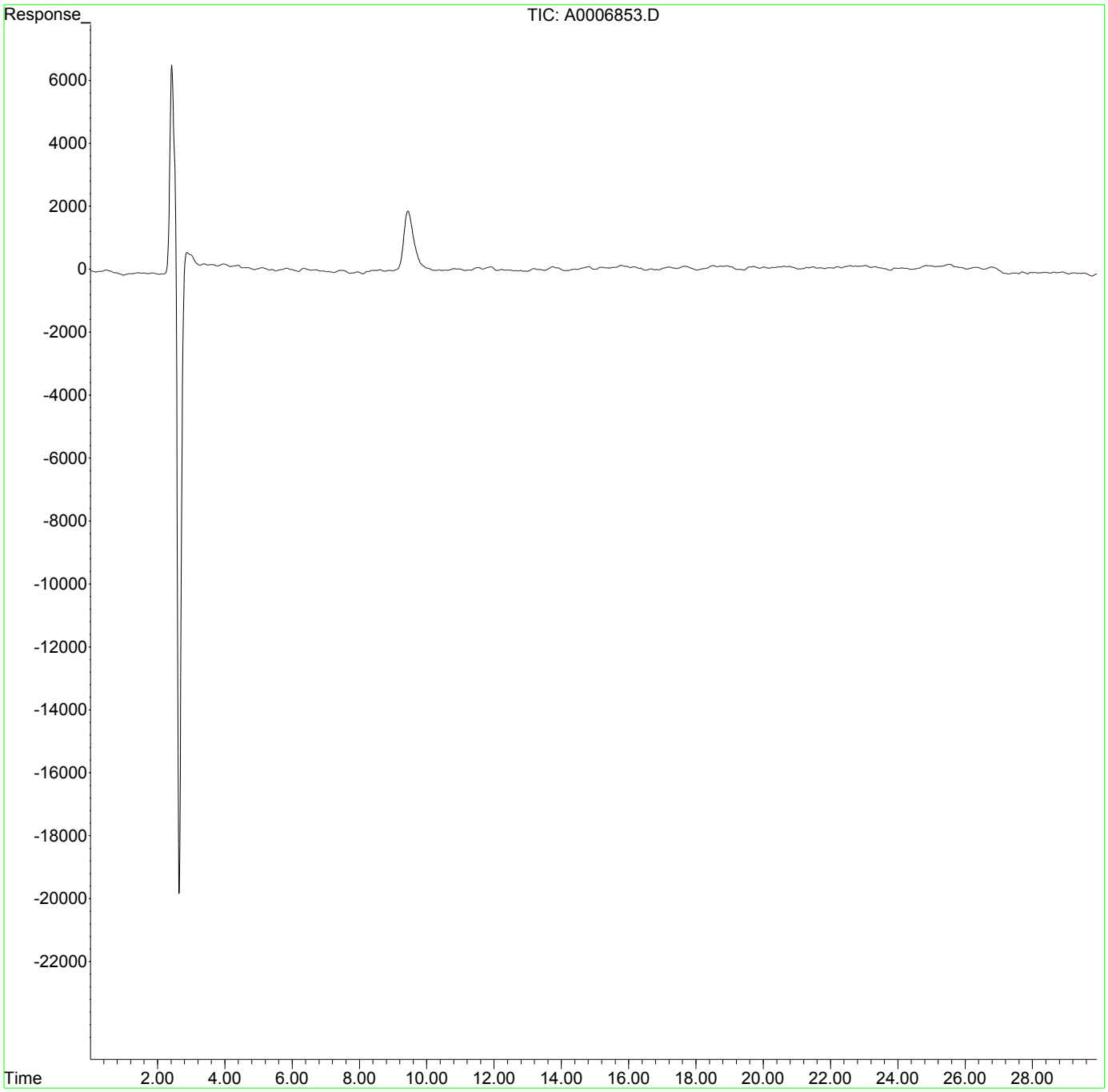
(f)=RT Delta > 1/2 Window (m)=manual int.

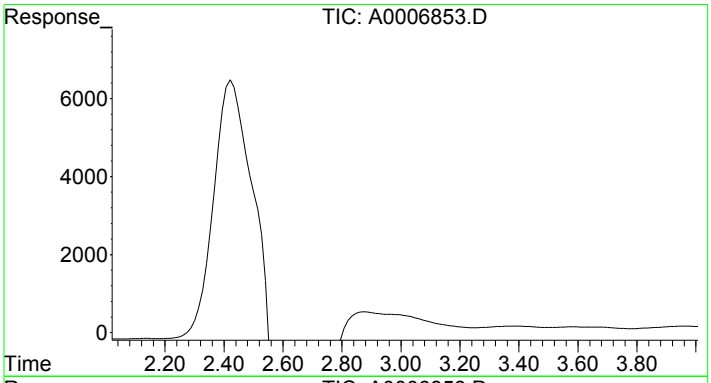
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006853.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 15:56:33
Operator : AFelser
Sample : R2404674-002
Misc :
ALS Vial : 36 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:38:43 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:36:48 2024
Response via : Initial Calibration
Integrator: ChemStation

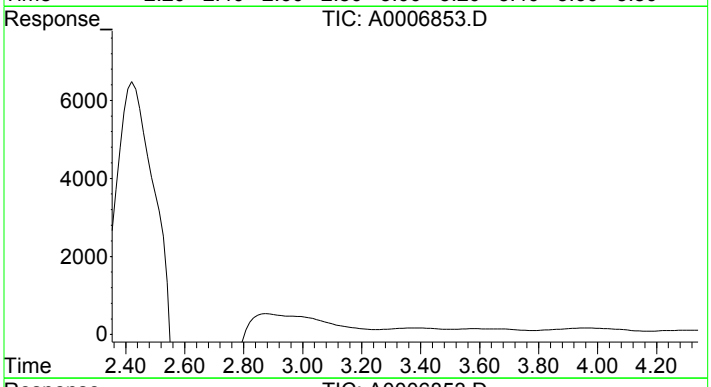
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





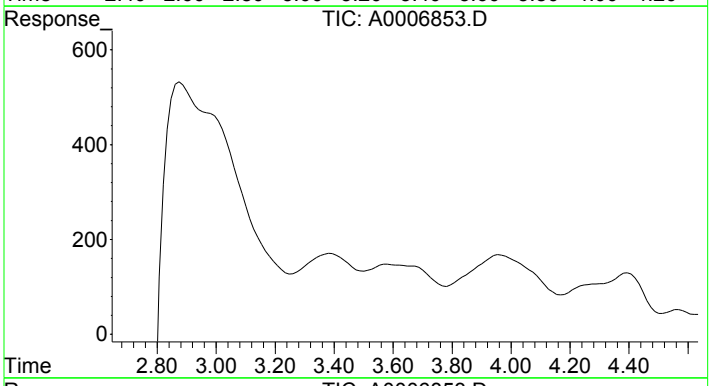
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.020 min
Response: 0
Conc: N.D.



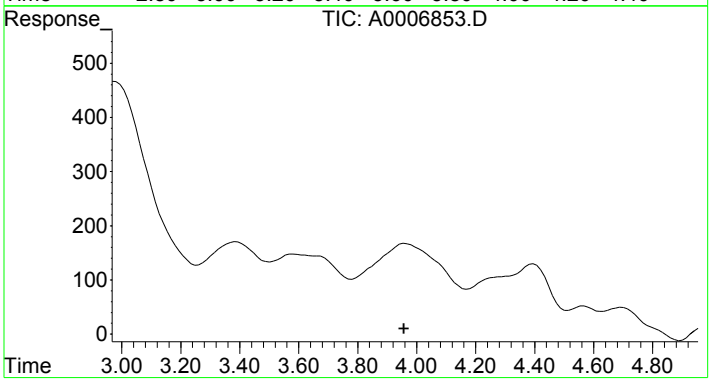
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.342 min
Response: 0
Conc: N.D.



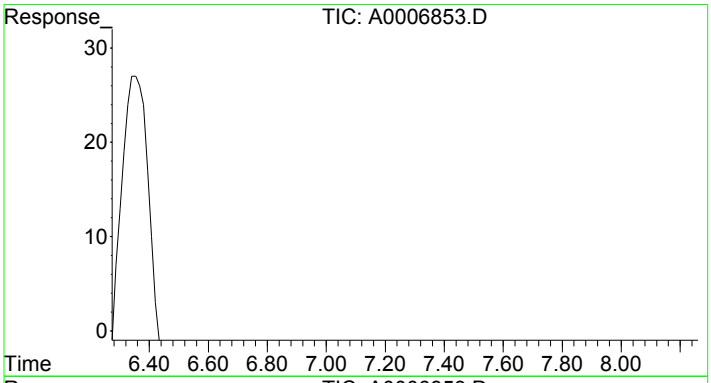
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.644 min
Response: 0
Conc: N.D.



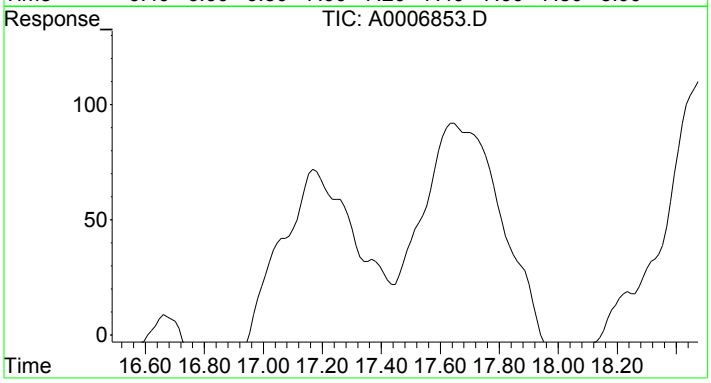
#4 Acetic Acid

R.T.: 0.000 min
Exp R.T. : 3.957 min
Response: 0
Conc: N.D.



#5 Propionic Acid

R.T.: 0.000 min
Exp R.T. : 7.273 min
Response: 0
Conc: N.D.



#6 Butyric Acid

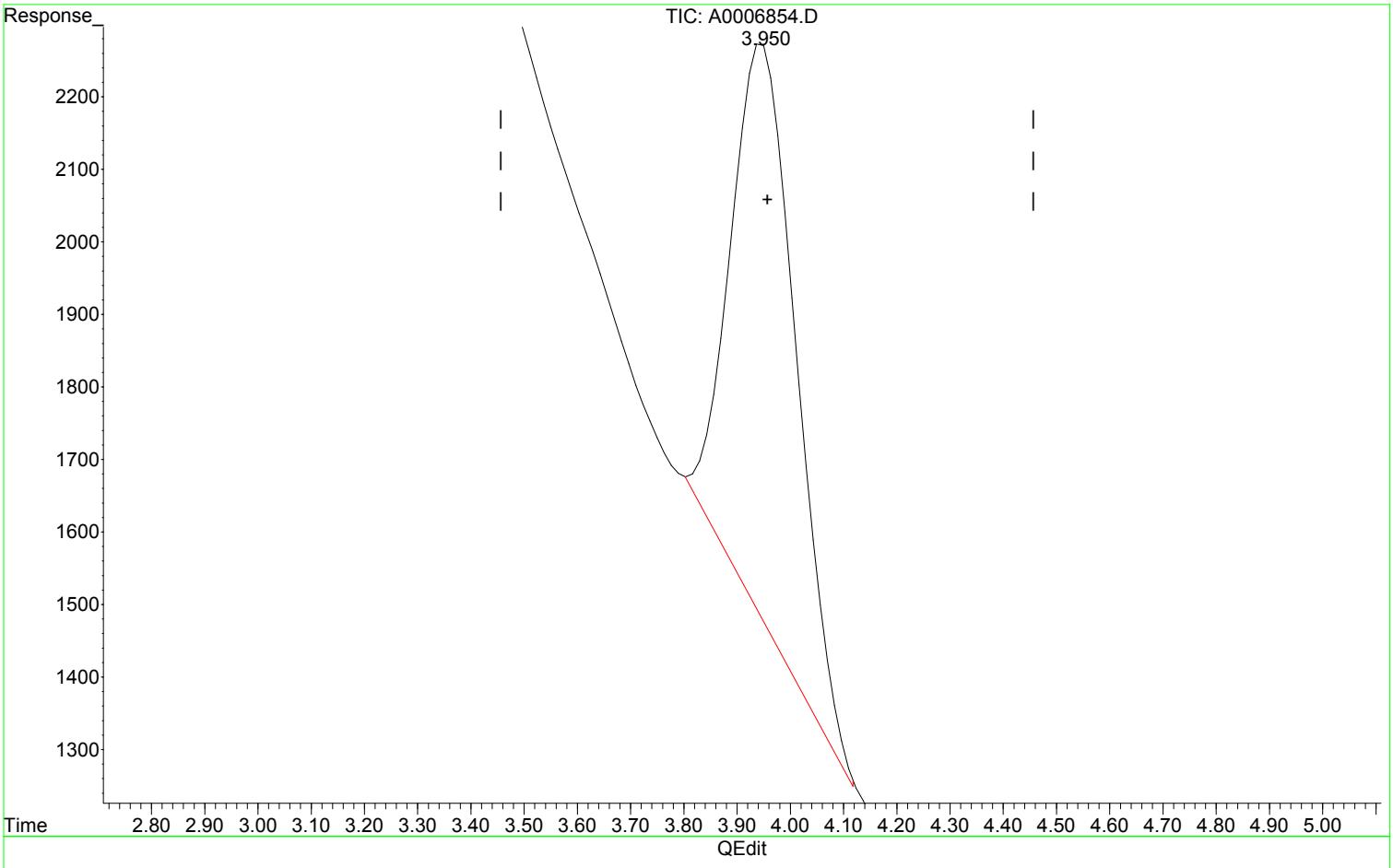
R.T.: 0.000 min
Exp R.T. : 17.483 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006854.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 16:28:52
Operator : AFelser
Sample : R2404674-004
Misc :
ALS Vial : 37 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:38:45 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:36:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.950min 1.159 ppm m

response 67699

Manual Integration:

After

Poor integration.

06/10/24

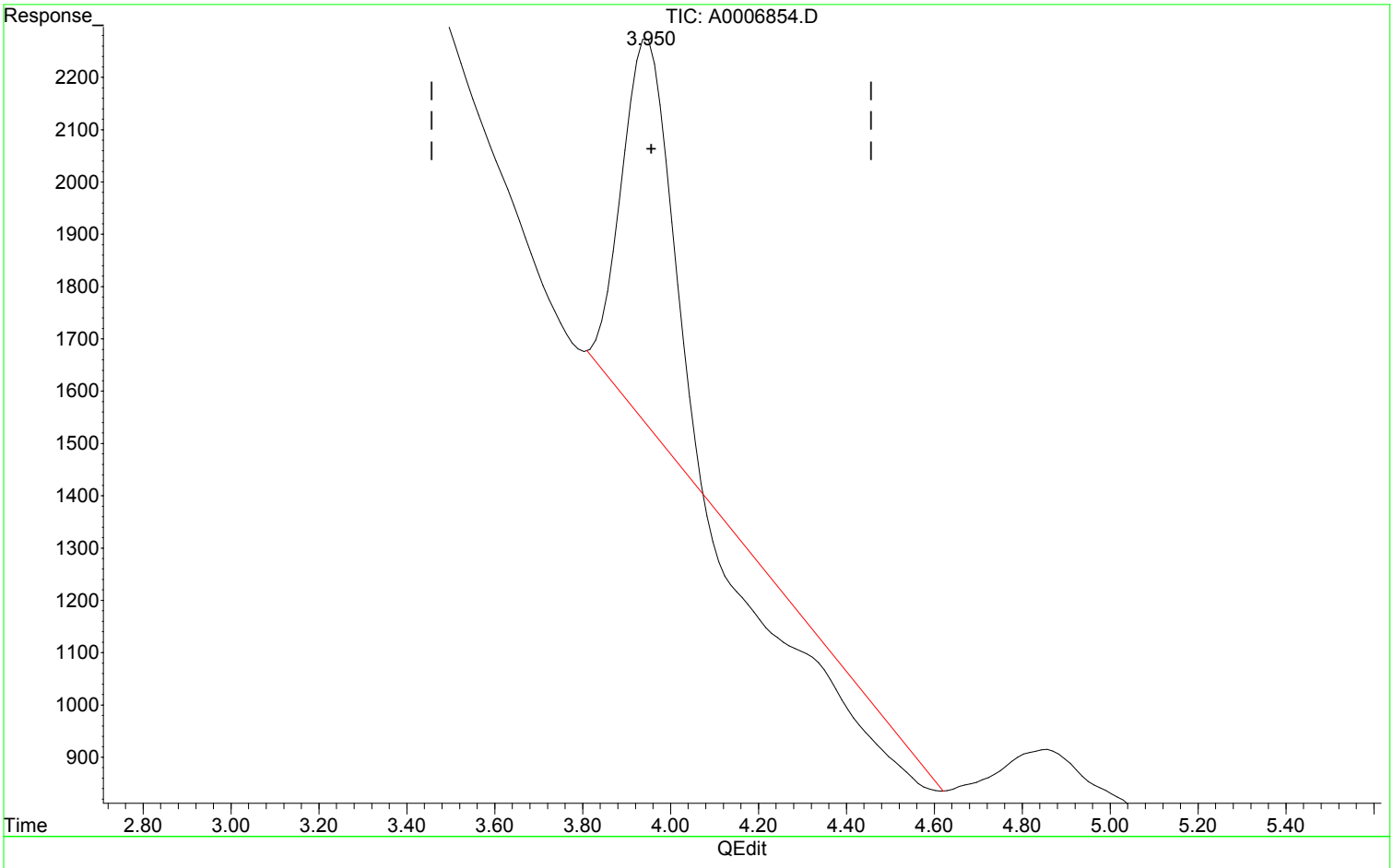
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006854.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 16:28:52
Operator : AFelser
Sample : R2404674-004
Misc :
ALS Vial : 37 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:38:45 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:36:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.948min 0.656 ppm

response 38307

Manual Integration:

Before

06/10/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006854.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 16:28:52
Operator : AFelser
Sample : R2404674-004
Misc :
ALS Vial : 37 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:38:45 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:36:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	3.950	67699	1.159	ppm	m
5) T	Propionic Acid	0.000	0	N.D.	ppm	
6) T	Butyric Acid	0.000	0	N.D.	ppm	

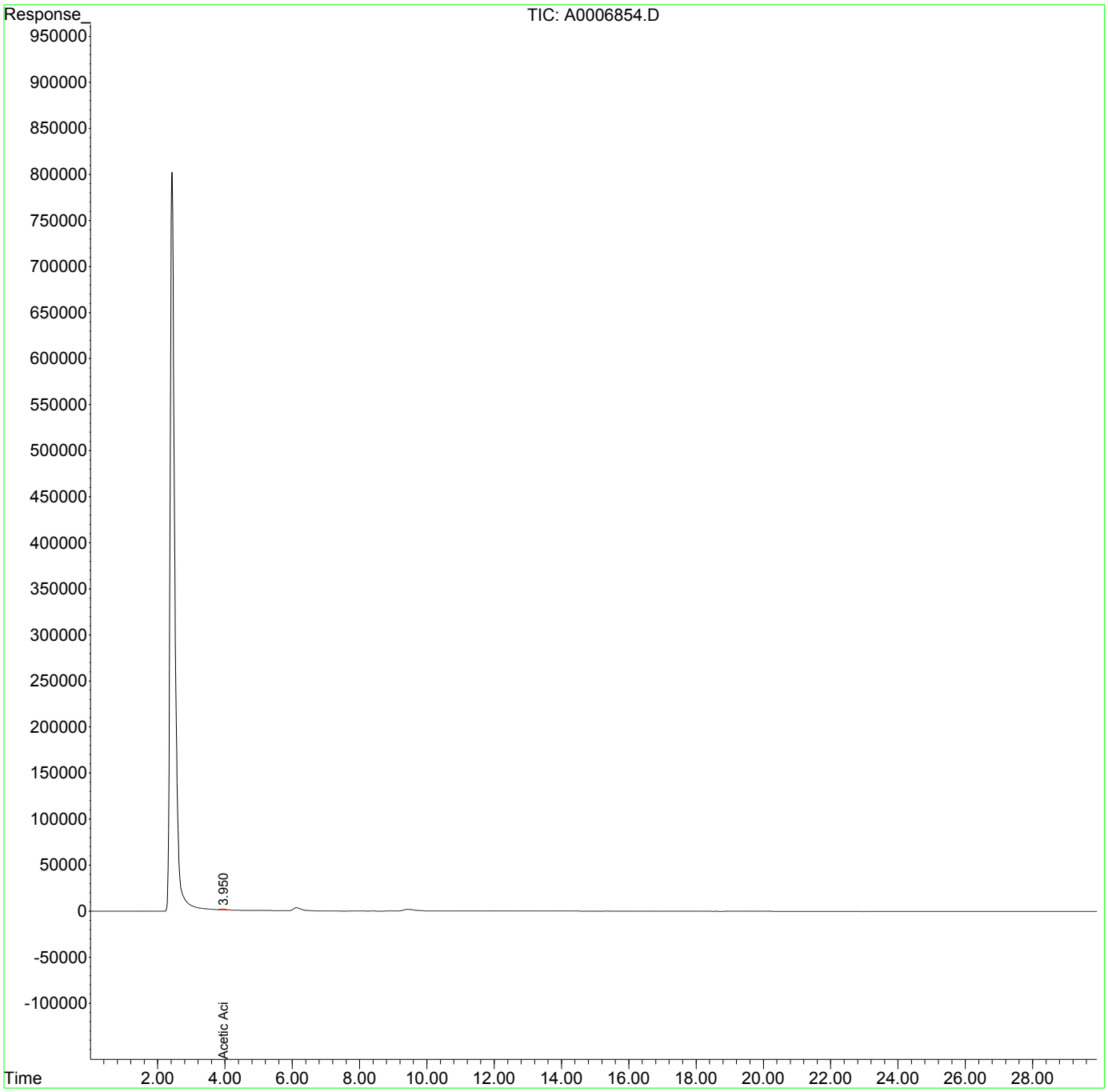
(f)=RT Delta > 1/2 Window (m)=manual int.

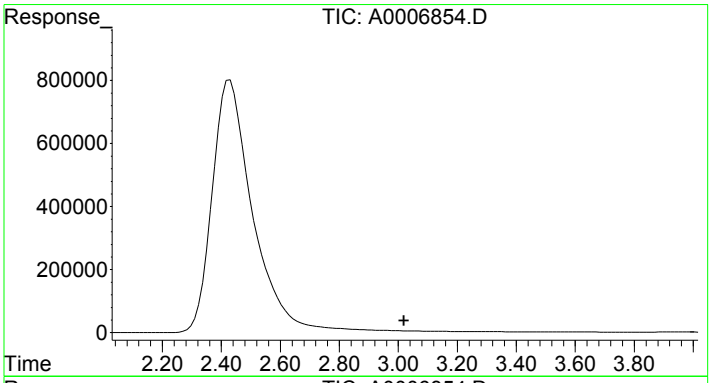
1st 06/10/24
2nd 06/12/24

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006854.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 16:28:52
Operator : AFelser
Sample : R2404674-004
Misc :
ALS Vial : 37 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:38:45 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:36:48 2024
Response via : Initial Calibration
Integrator: ChemStation

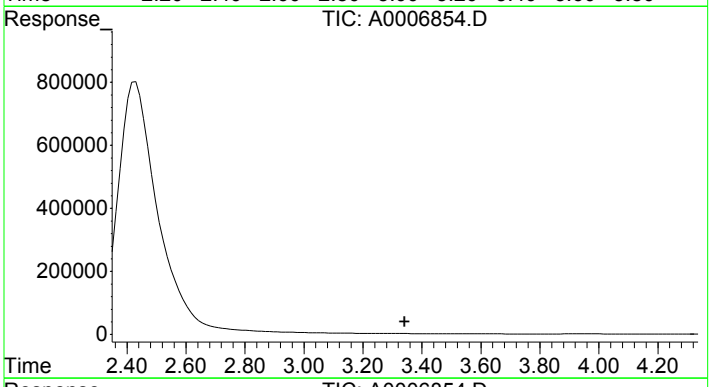
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





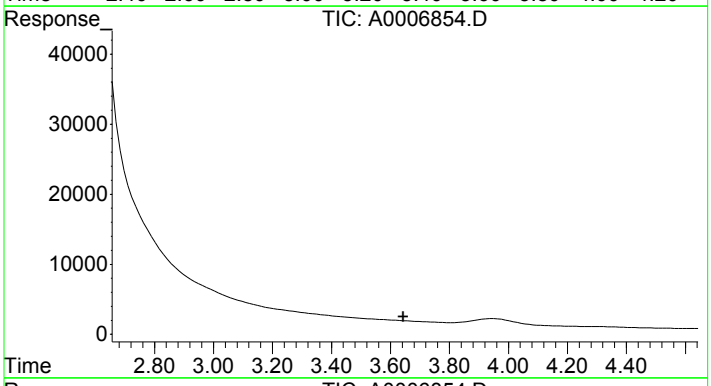
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.020 min
Response: 0
Conc: N.D.



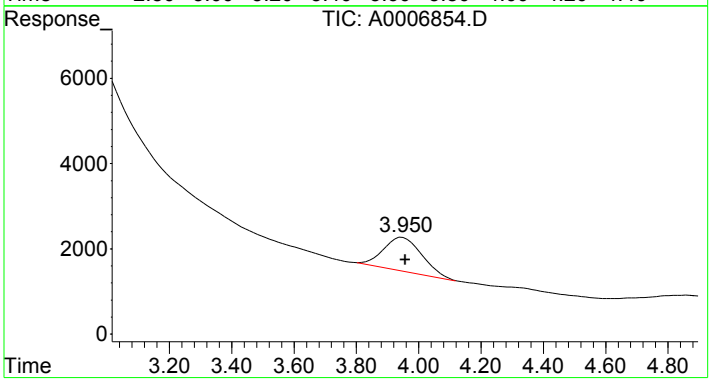
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.342 min
Response: 0
Conc: N.D.



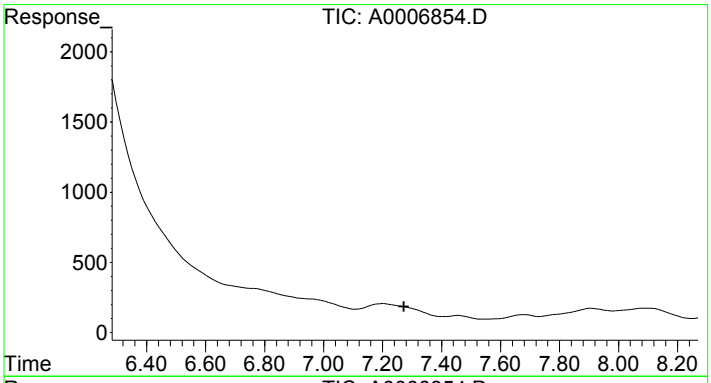
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.644 min
Response: 0
Conc: N.D.



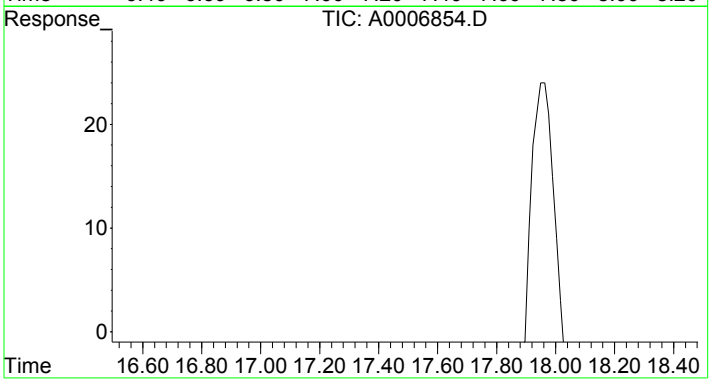
#4 Acetic Acid

R.T.: 3.950 min
Delta R.T.: -0.008 min
Response: 67699
Conc: 1.16 ppm m



#5 Propionic Acid

R.T.: 0.000 min
Exp R.T. : 7.273 min
Response: 0
Conc: N.D.



#6 Butyric Acid

R.T.: 0.000 min
Exp R.T. : 17.483 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006855.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 17:01:16
Operator : AFelser
Sample : R2404674-005
Misc :
ALS Vial : 38 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:38:47 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:36:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) t	Formic acid	0.000	0	N.D.	ppm
2) T	Pyruvic acid	0.000	0	N.D.	ppm
3) T	Lactic Acid	0.000	0	N.D.	ppm
4) T	Acetic Acid	0.000	0	N.D.	ppm
5) T	Propionic Acid	0.000	0	N.D.	ppm
6) T	Butyric Acid	0.000	0	N.D.	ppm

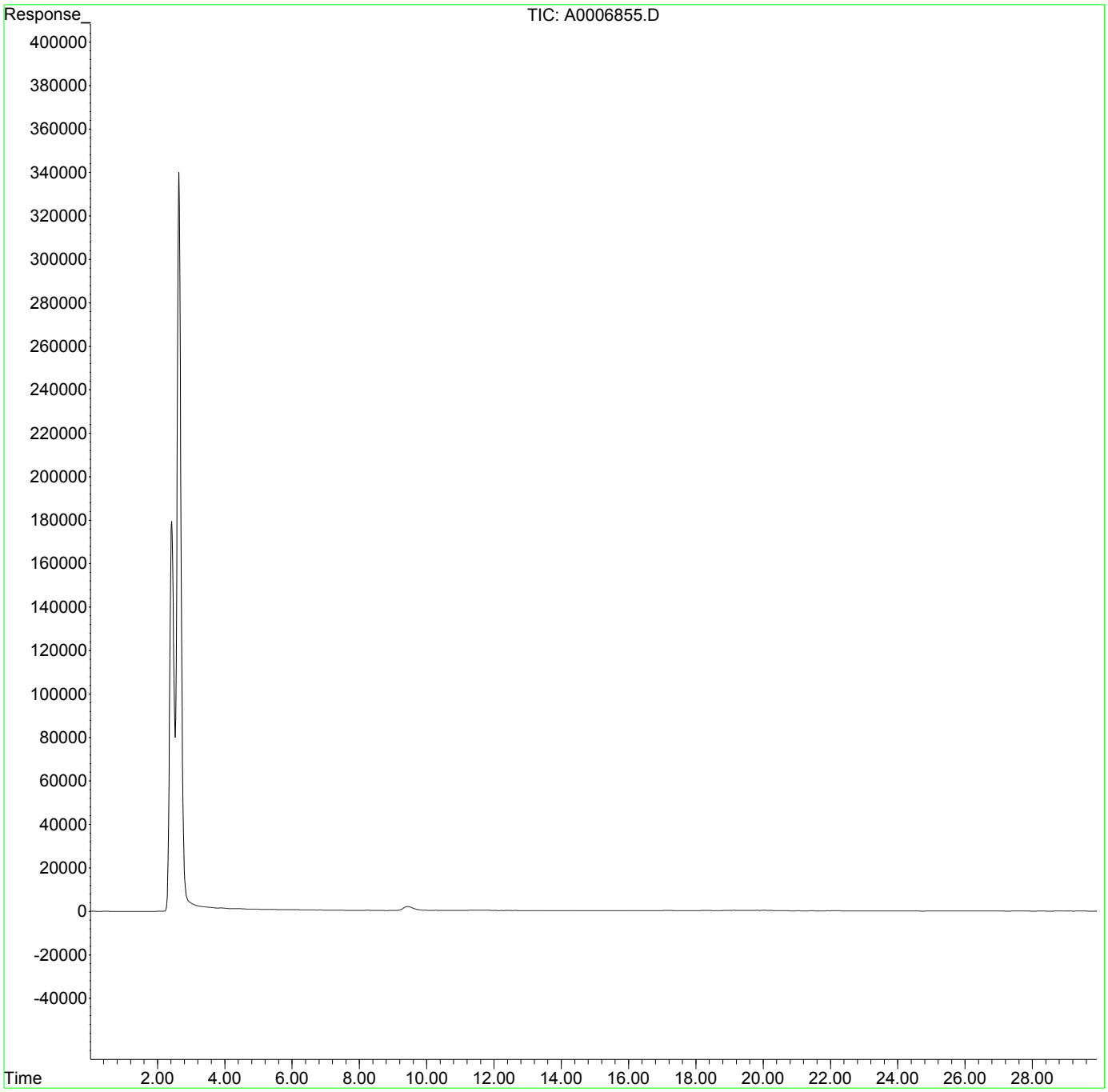
(f)=RT Delta > 1/2 Window (m)=manual int.

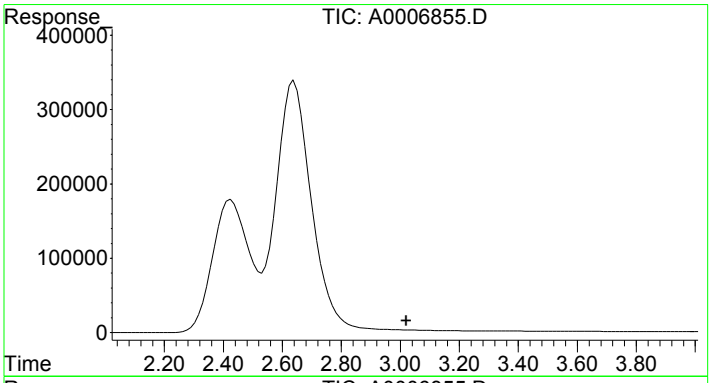
1st 06/10/24
2nd 06/12/24

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006855.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 17:01:16
Operator : AFelser
Sample : R2404674-005
Misc :
ALS Vial : 38 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:38:47 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:36:48 2024
Response via : Initial Calibration
Integrator: ChemStation

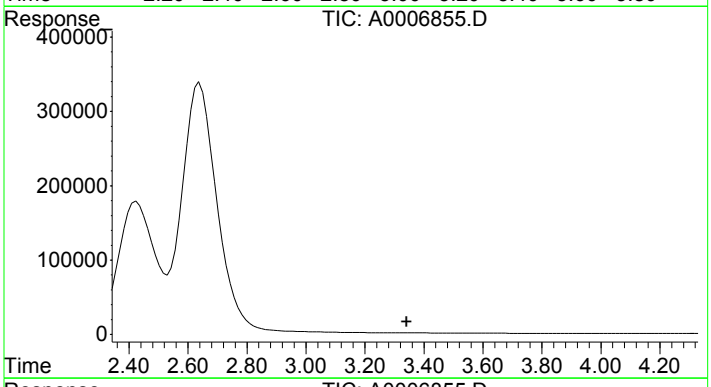
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





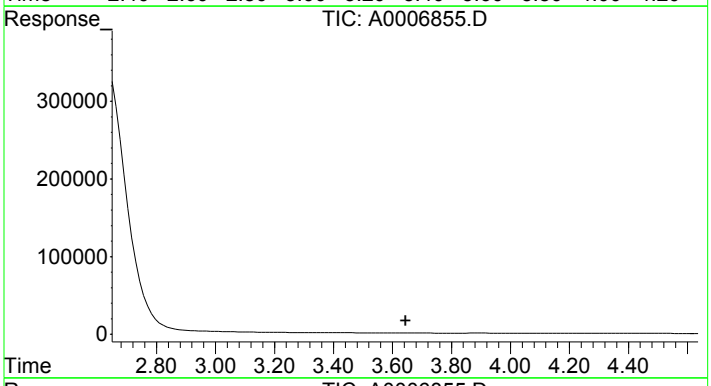
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.020 min
Response: 0
Conc: N.D.



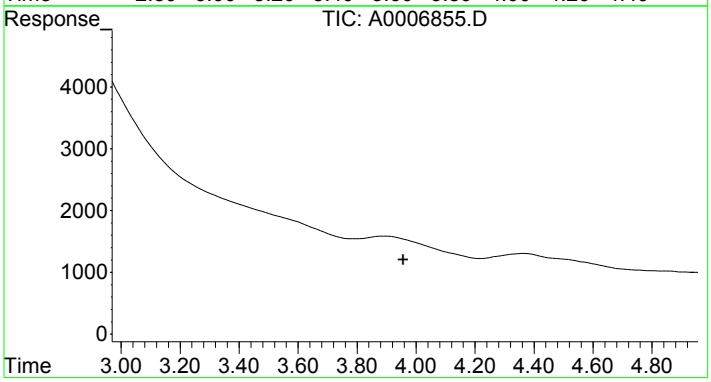
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.342 min
Response: 0
Conc: N.D.



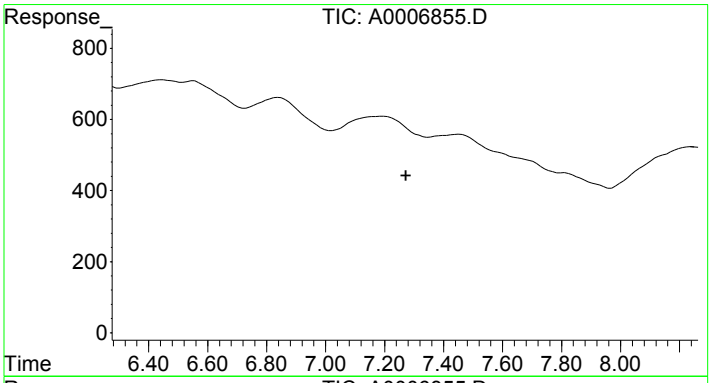
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.644 min
Response: 0
Conc: N.D.



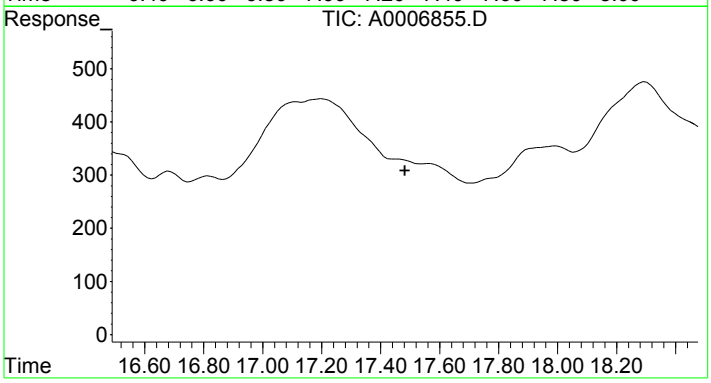
#4 Acetic Acid

R.T.: 0.000 min
Exp R.T. : 3.957 min
Response: 0
Conc: N.D.



#5 Propionic Acid

R.T.: 0.000 min
Exp R.T. : 7.273 min
Response: 0
Conc: N.D.



#6 Butyric Acid

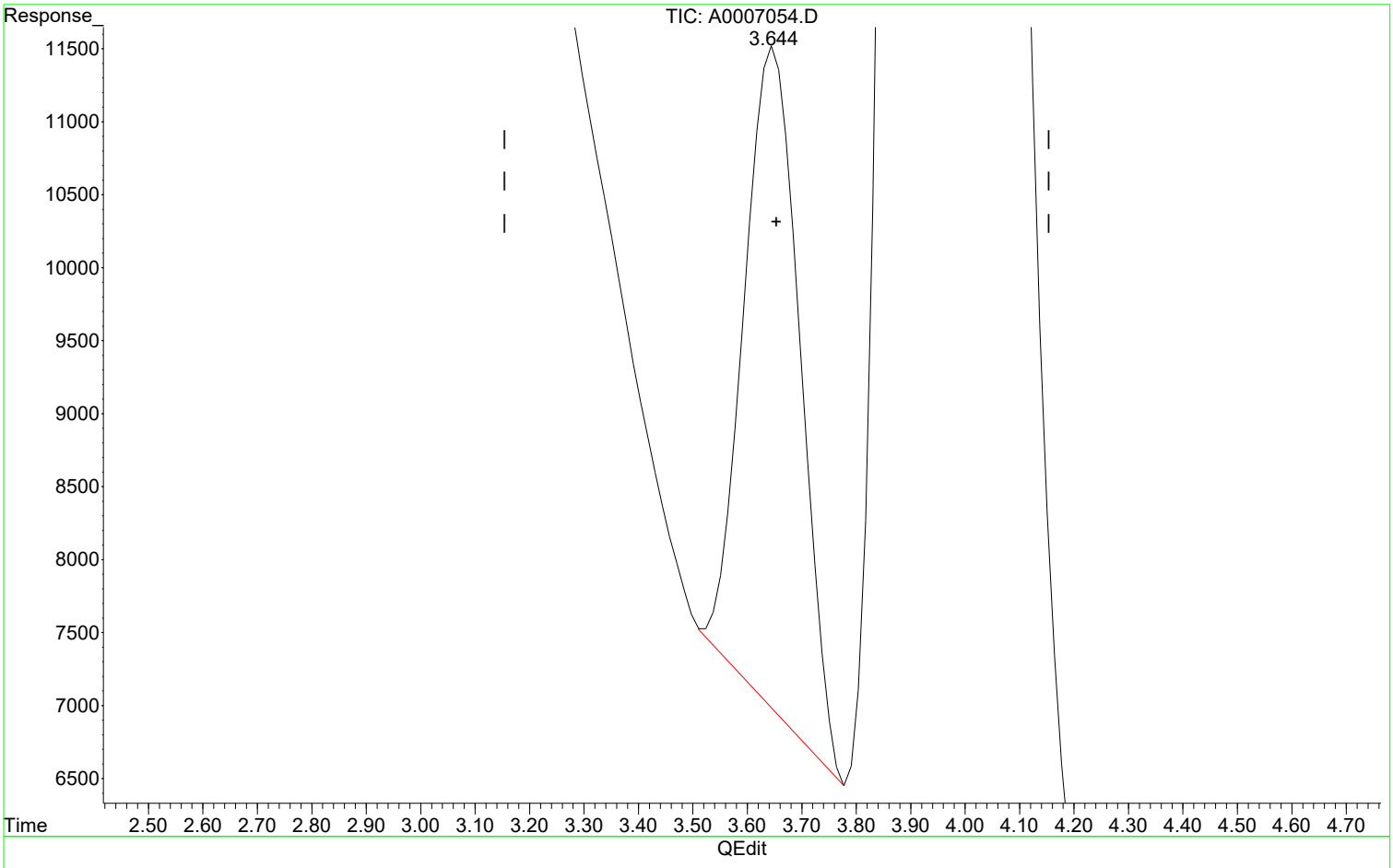
R.T.: 0.000 min
Exp R.T. : 17.483 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007054.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 02:38:47
Operator : AFelser
Sample : R2404674-006|2
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:47:01 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)

3.644min 6.800 ppm m

response 325314

Manual Integration:

After

Poor integration.

06/19/24

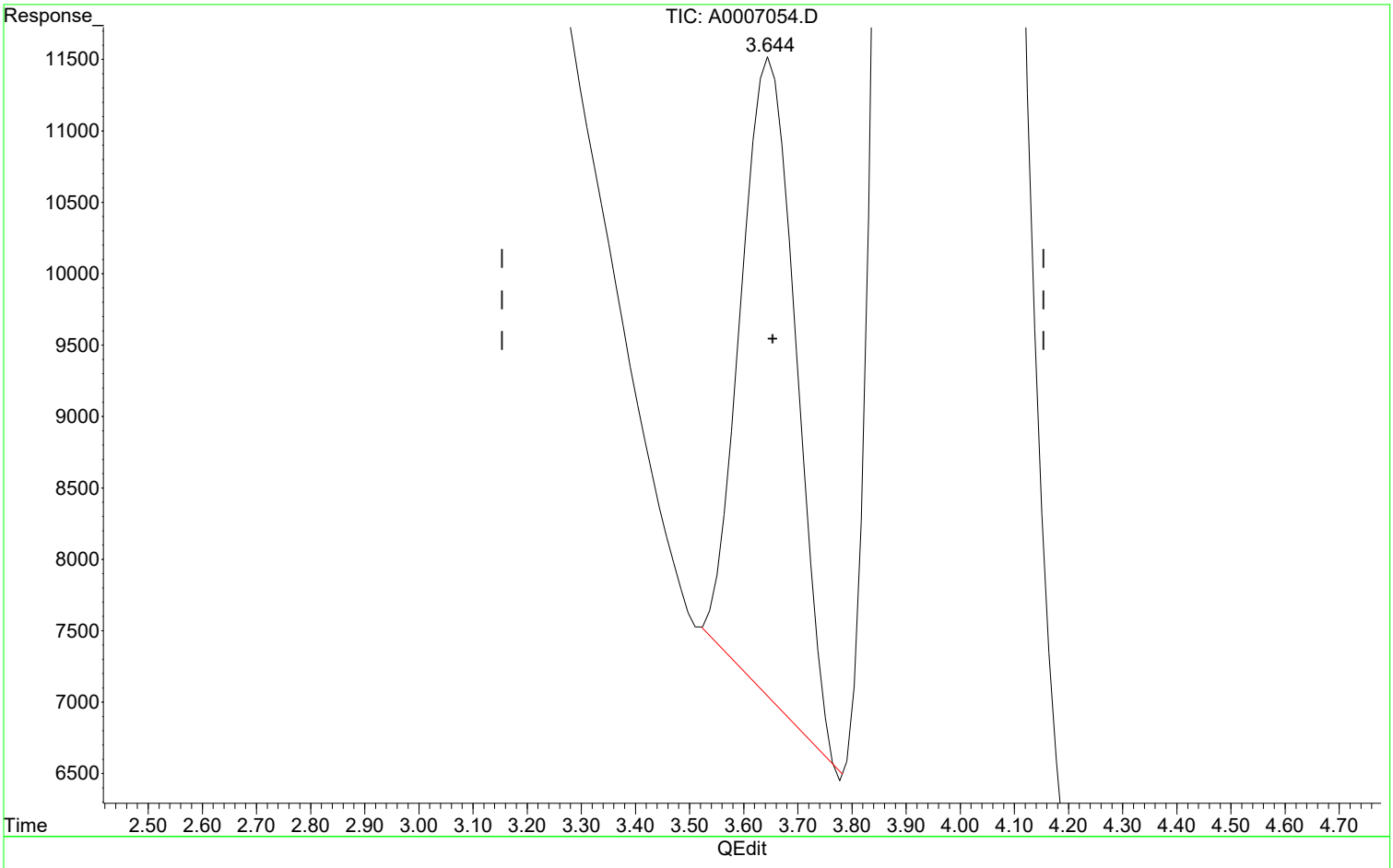
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007054.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 02:38:47
Operator : AFelser
Sample : R2404674-006|2
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:47:01 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)

3.649min 6.681 ppm

response 319615

Manual Integration:

Before

06/19/24

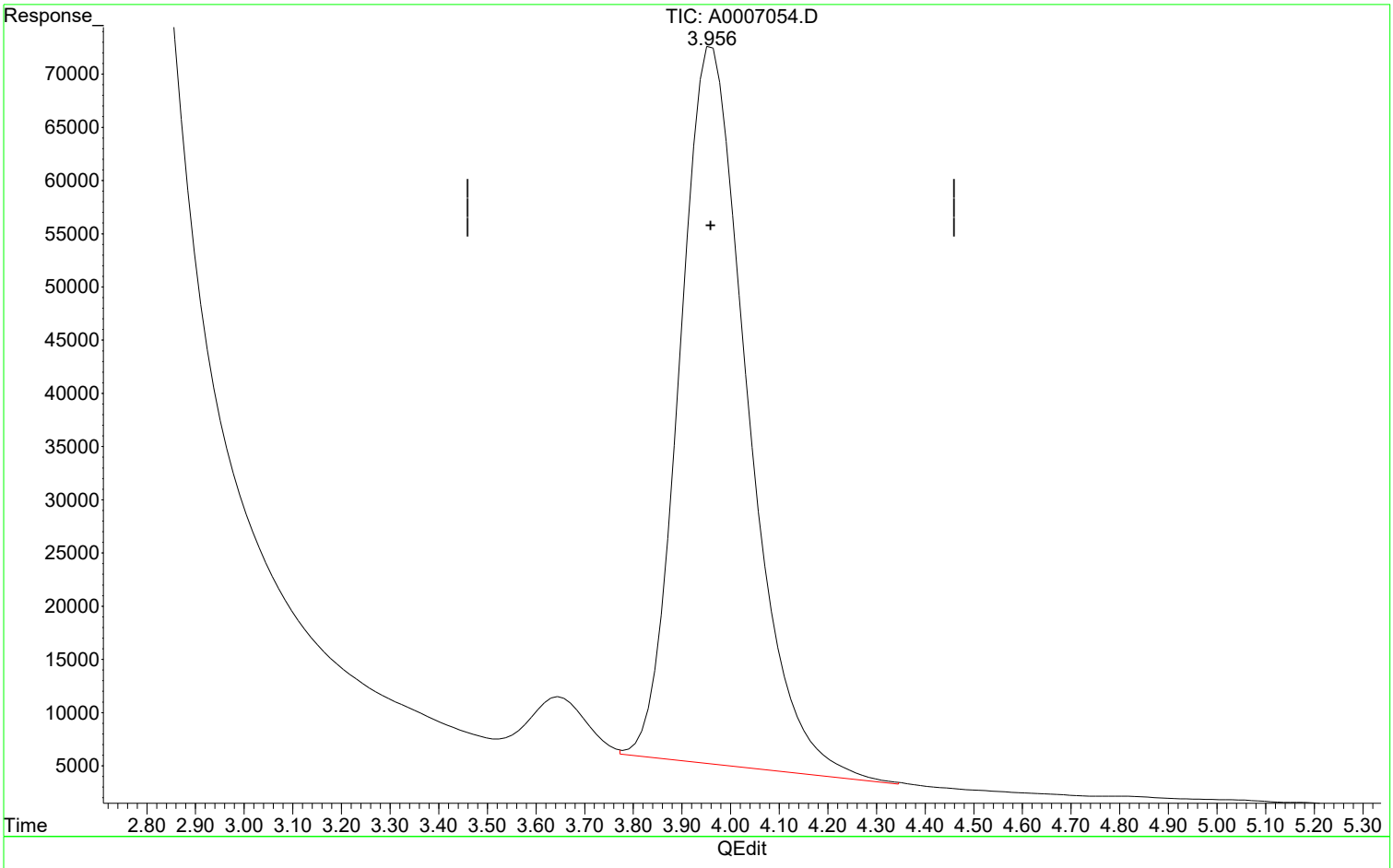
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007054.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 02:38:47
Operator : AFelser
Sample : R2404674-006|2
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:47:01 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.956min 113.976 ppm m

response 6578957

Manual Integration:

After

Poor integration.

06/19/24

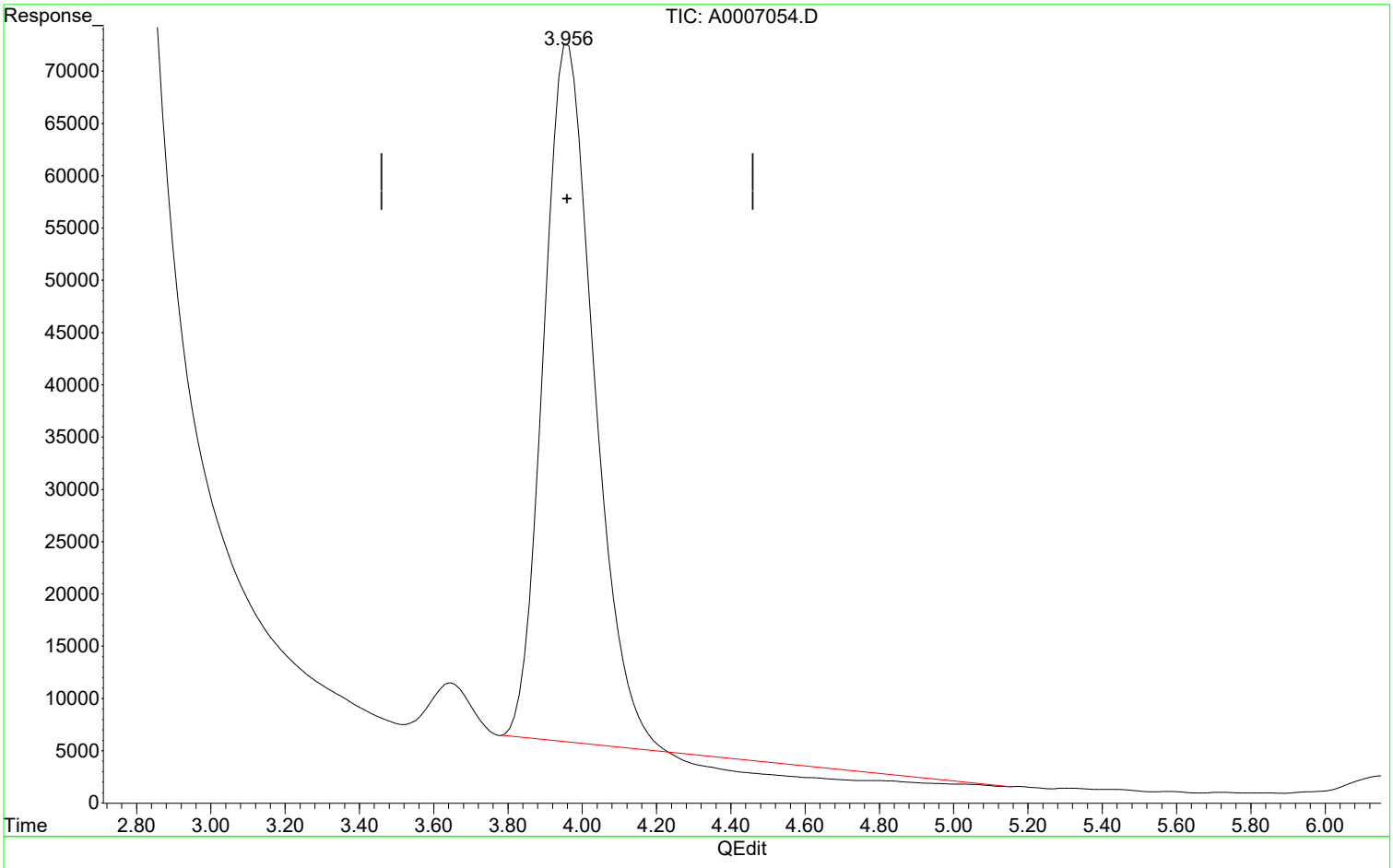
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007054.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 02:38:47
Operator : AFelser
Sample : R2404674-006|2
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:47:01 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.962min 103.085 ppm

response 5950310

Manual Integration:

Before

06/19/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007054.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 02:38:47
Operator : AFelser
Sample : R2404674-006|2
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:47:01 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

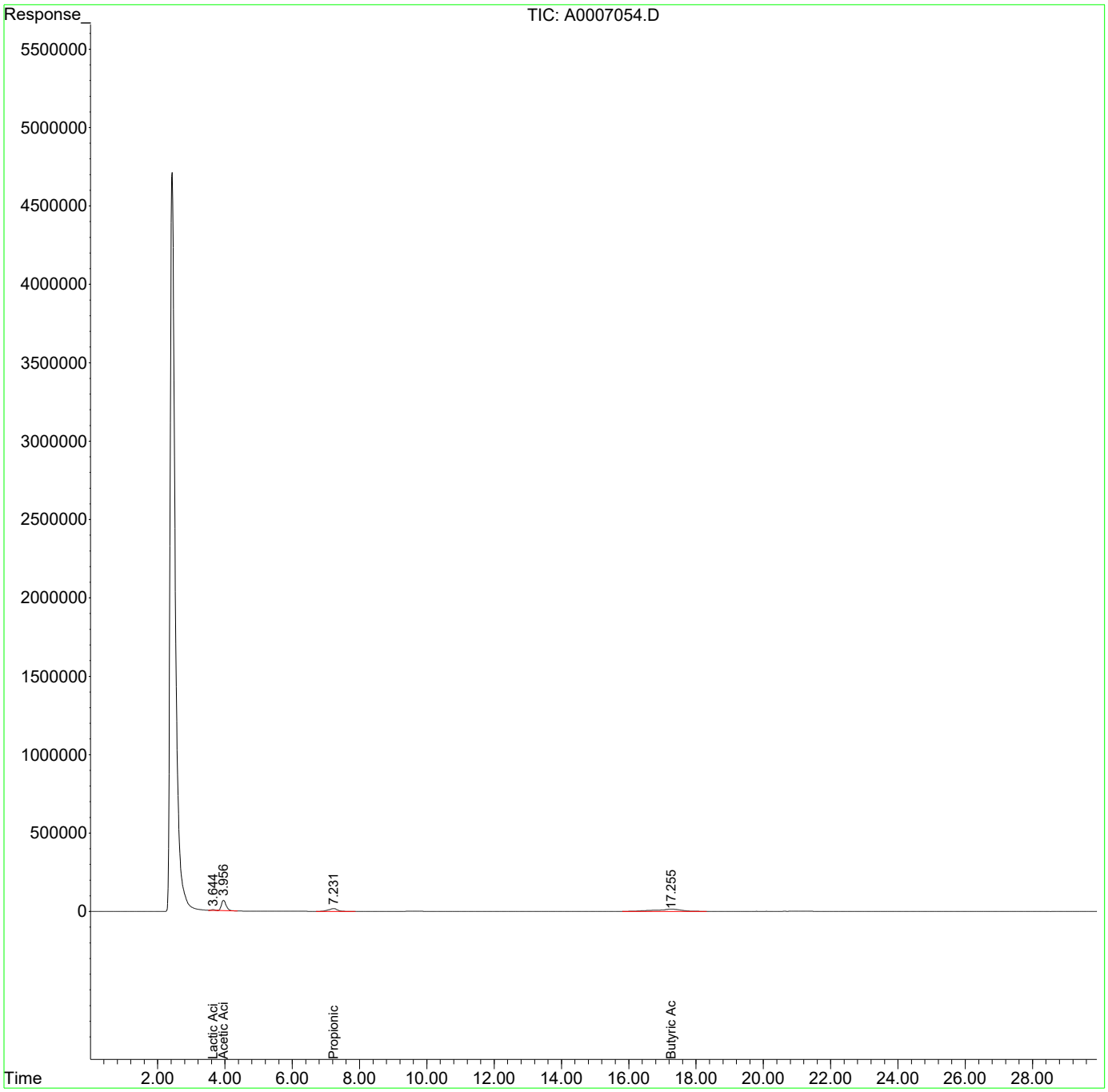
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	3.644	325314	6.800	ppm	m
4) T	Acetic Acid	3.956	6578957	113.976	ppm	m
5) T	Propionic Acid	7.236	3463811	59.035	ppm	
6) T	Butyric Acid	17.262	8113927	105.152	ppm	

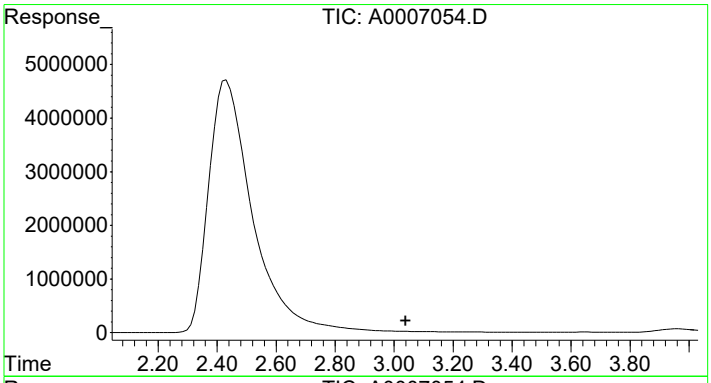
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007054.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 02:38:47
Operator : AFelser
Sample : R2404674-006|2
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:47:01 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

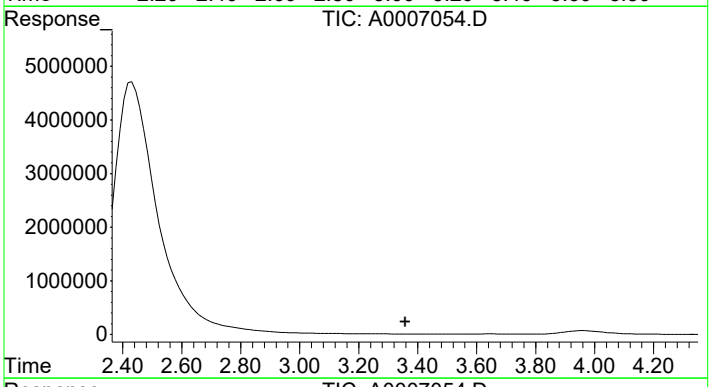
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





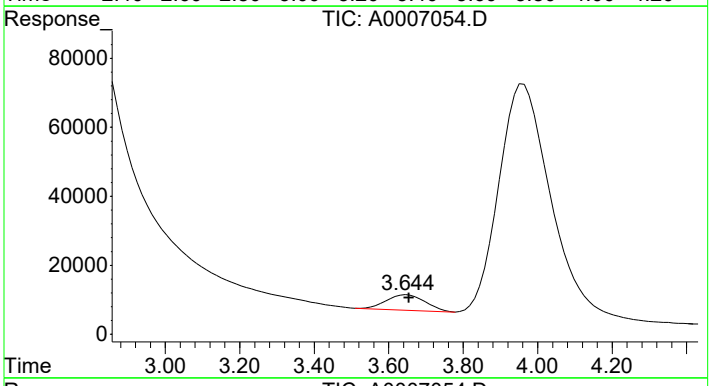
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.039 min
Response: 0
Conc: N.D.



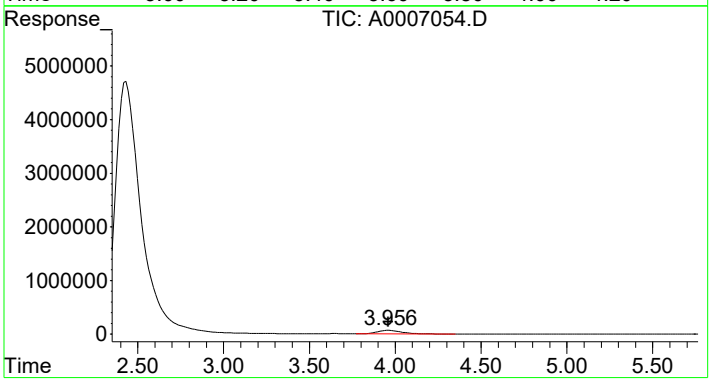
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.359 min
Response: 0
Conc: N.D.



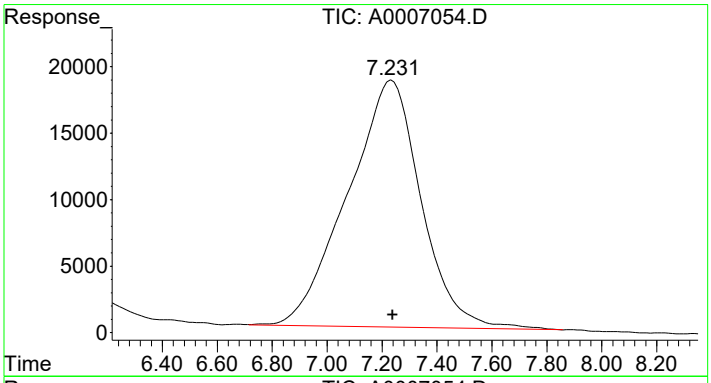
#3 Lactic Acid

R.T.: 3.644 min
Delta R.T.: -0.010 min
Response: 325314
Conc: 6.80 ppm m



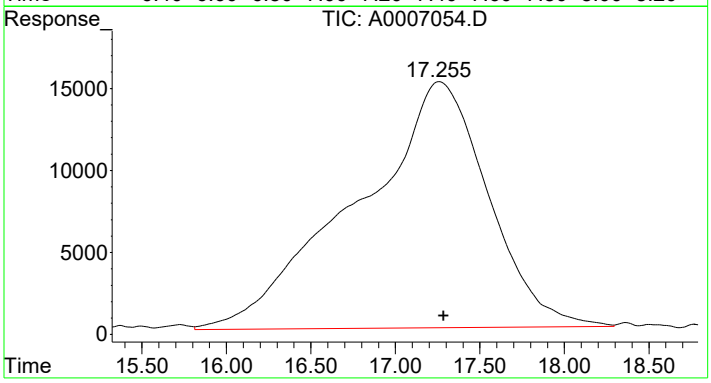
#4 Acetic Acid

R.T.: 3.956 min
Delta R.T.: -0.003 min
Response: 6578957
Conc: 113.98 ppm m



#5 Propionic Acid

R.T.: 7.236 min
Delta R.T.: -0.003 min
Response: 3463811
Conc: 59.03 ppm



#6 Butyric Acid

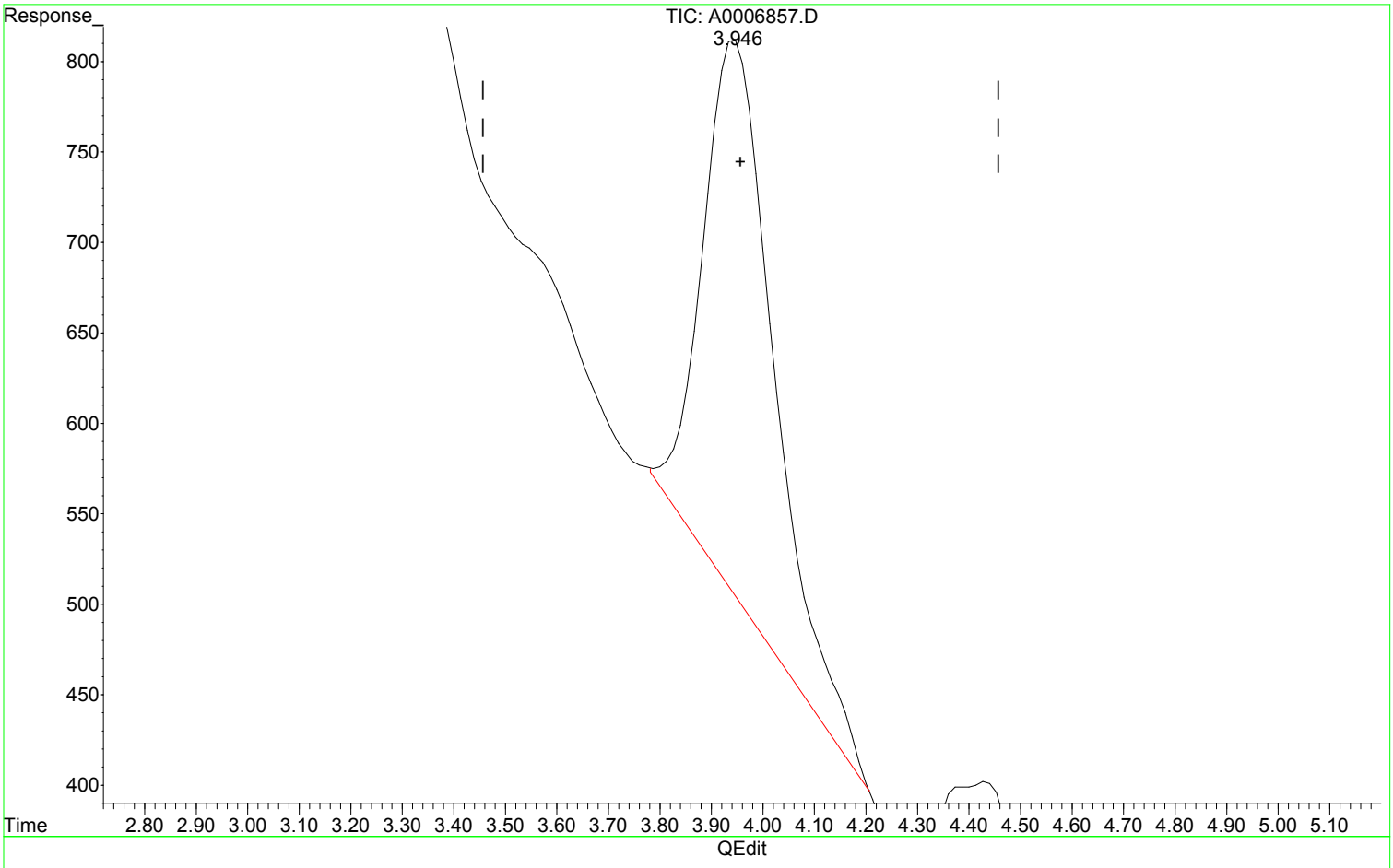
R.T.: 17.262 min
Delta R.T.: -0.023 min
Response: 8113927
Conc: 105.15 ppm

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006857.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 18:05:58
Operator : AFelser
Sample : R2404674-007
Misc :
ALS Vial : 40 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:38:51 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:36:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.946min 0.511 ppm m

response 29830

Manual Integration:

After

Poor integration.

06/10/24

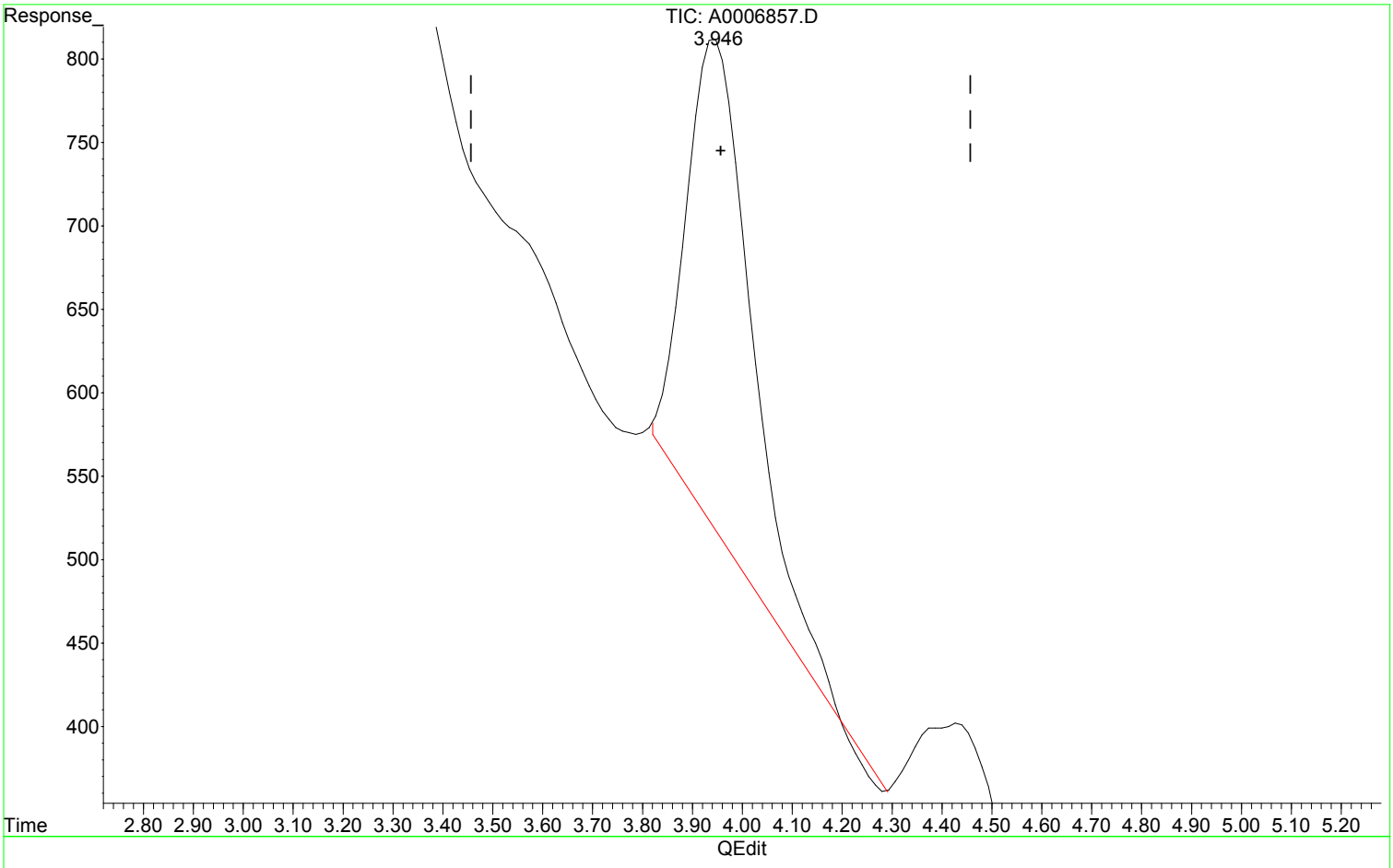
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006857.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 18:05:58
Operator : AFelser
Sample : R2404674-007
Misc :
ALS Vial : 40 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:38:51 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:36:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.947min 0.471 ppm

response 27508

Manual Integration:

Before

06/10/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006857.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 18:05:58
Operator : AFelser
Sample : R2404674-007
Misc :
ALS Vial : 40 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:38:51 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:36:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

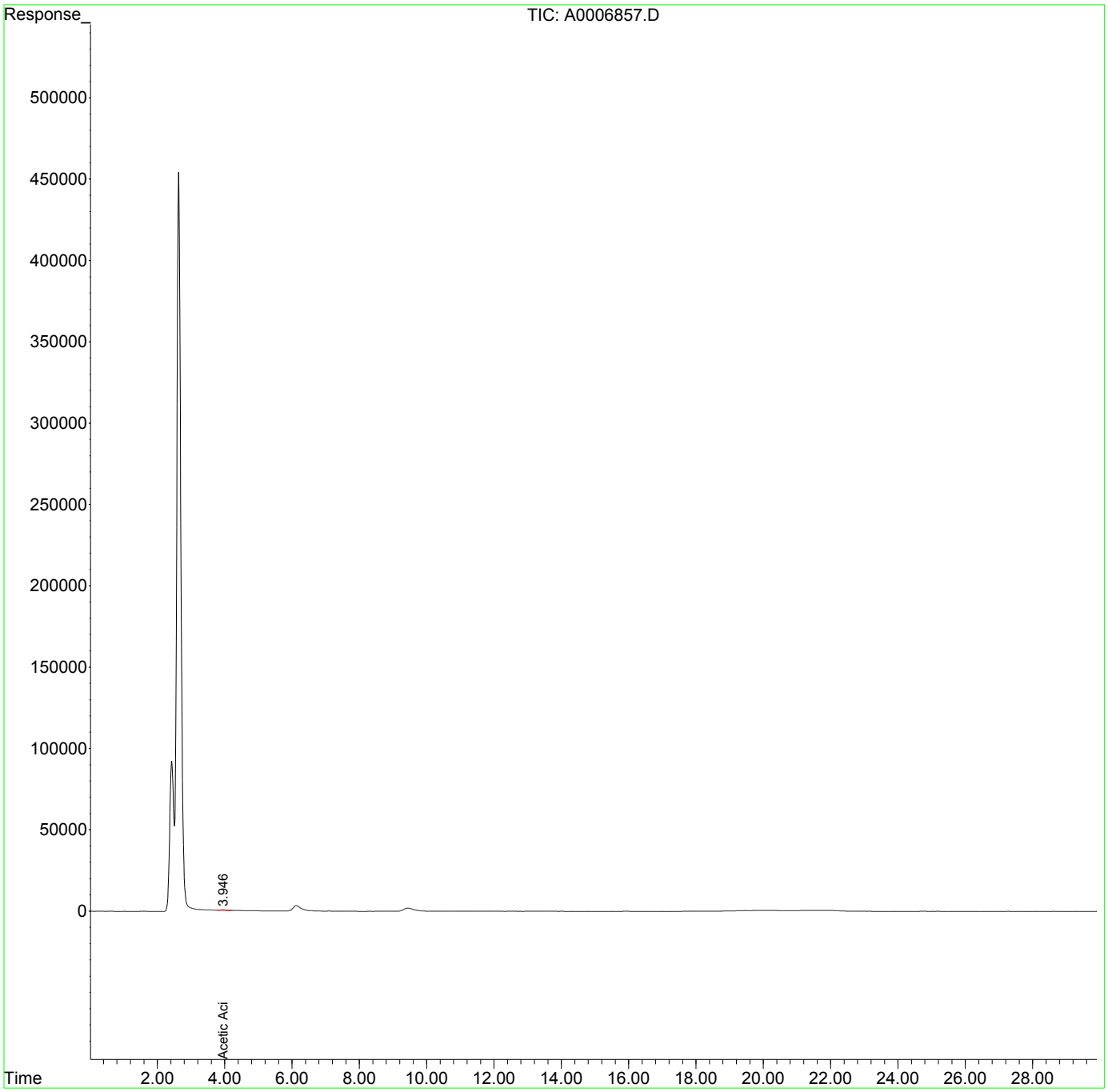
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	3.946	29830	0.511	ppm	m
5) T	Propionic Acid	0.000	0	N.D.	ppm	
6) T	Butyric Acid	0.000	0	N.D.	ppm	d

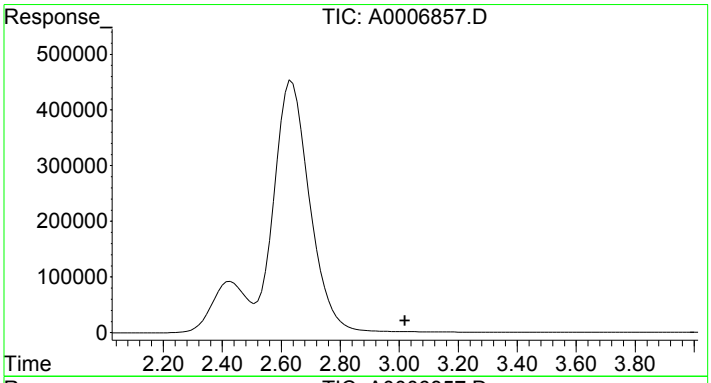
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006857.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 18:05:58
Operator : AFelser
Sample : R2404674-007
Misc :
ALS Vial : 40 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:38:51 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:36:48 2024
Response via : Initial Calibration
Integrator: ChemStation

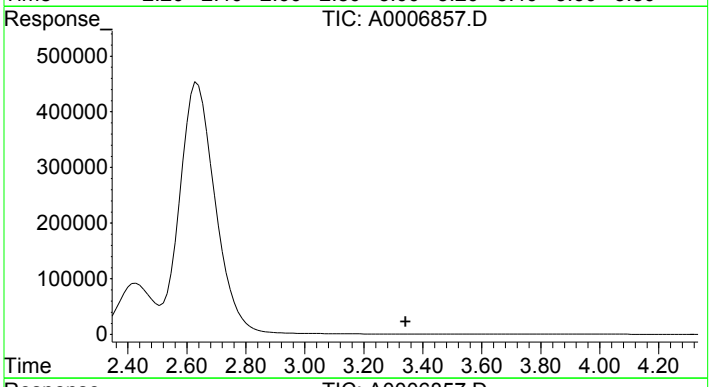
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





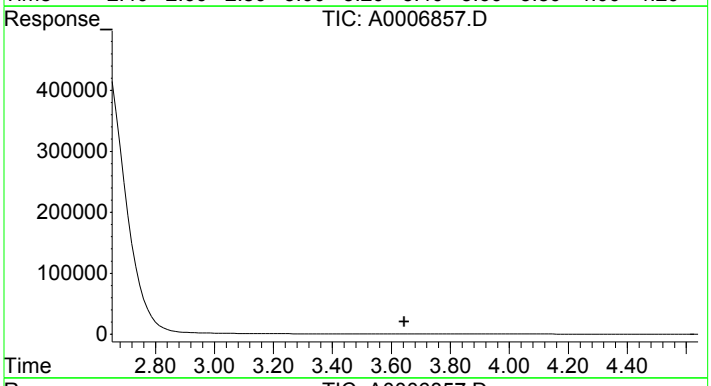
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.020 min
Response: 0
Conc: N.D.



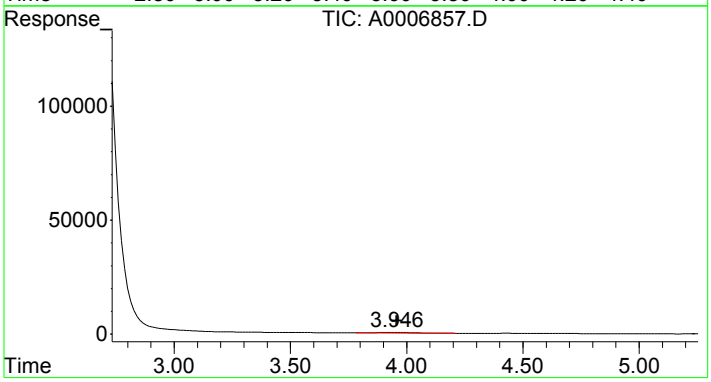
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.342 min
Response: 0
Conc: N.D.



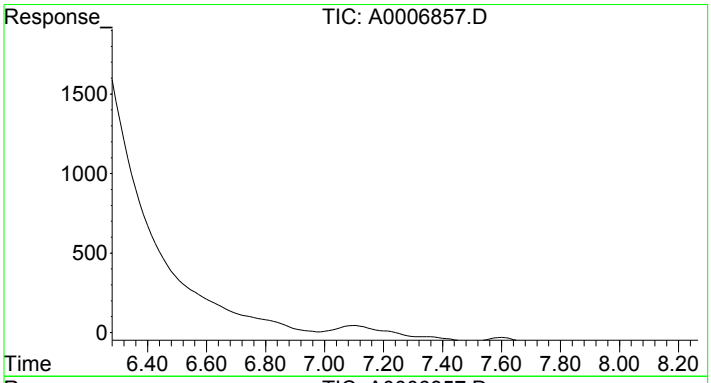
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.644 min
Response: 0
Conc: N.D.



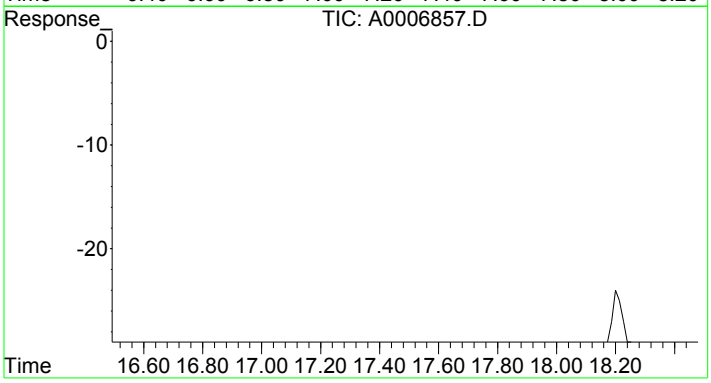
#4 Acetic Acid

R.T.: 3.946 min
Delta R.T.: -0.011 min
Response: 29830
Conc: 0.51 ppm m



#5 Propionic Acid

R.T.: 0.000 min
Exp R.T. : 7.273 min
Response: 0
Conc: N.D.



#6 Butyric Acid

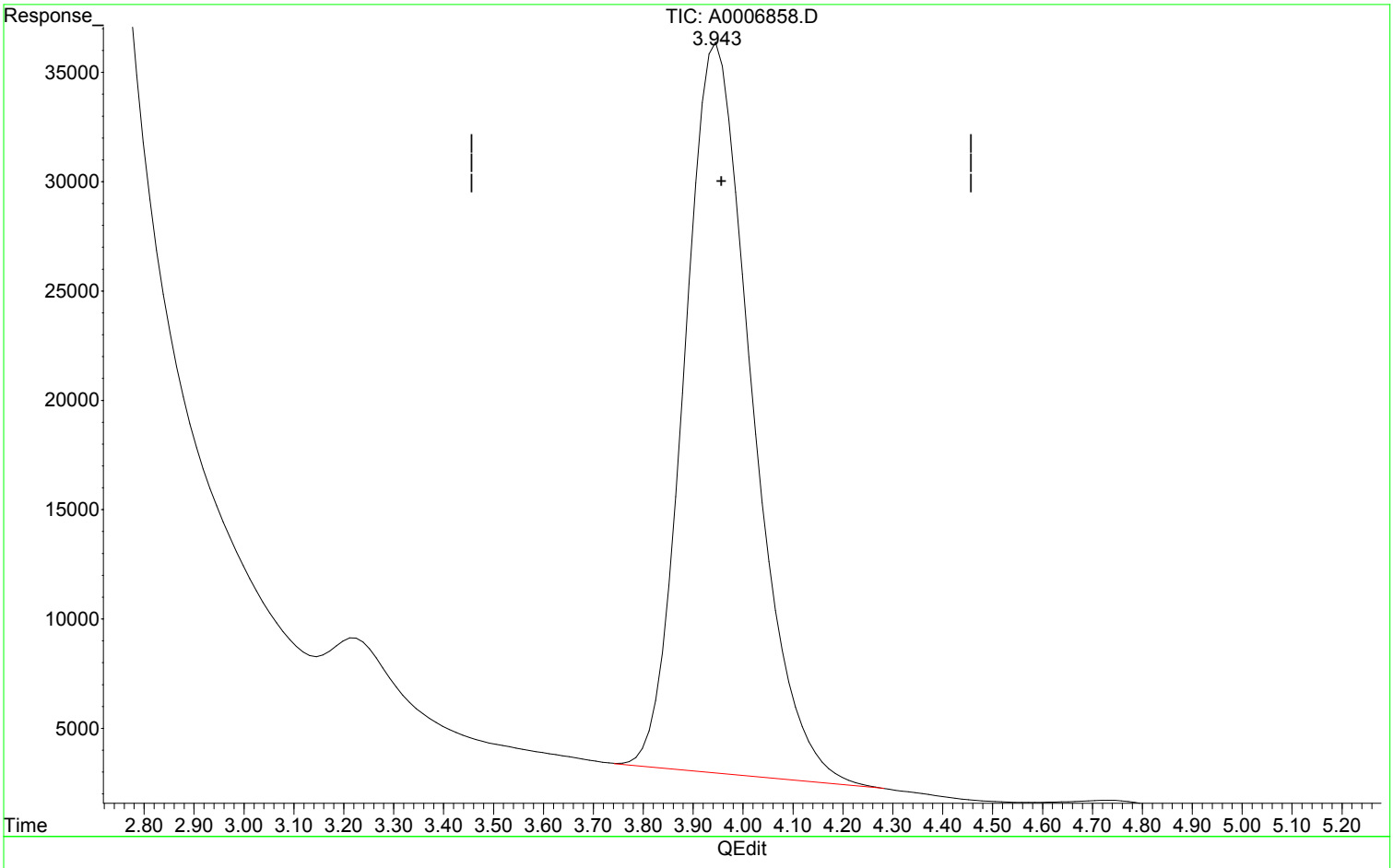
R.T.: 0.000 min
Exp R.T. : 17.483 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006858.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 18:38:19
Operator : AFelser
Sample : R2404674-008
Misc :
ALS Vial : 41 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:38:53 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:36:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.943min 54.052 ppm m

response 3157183

Manual Integration:

After

Poor integration.

06/10/24

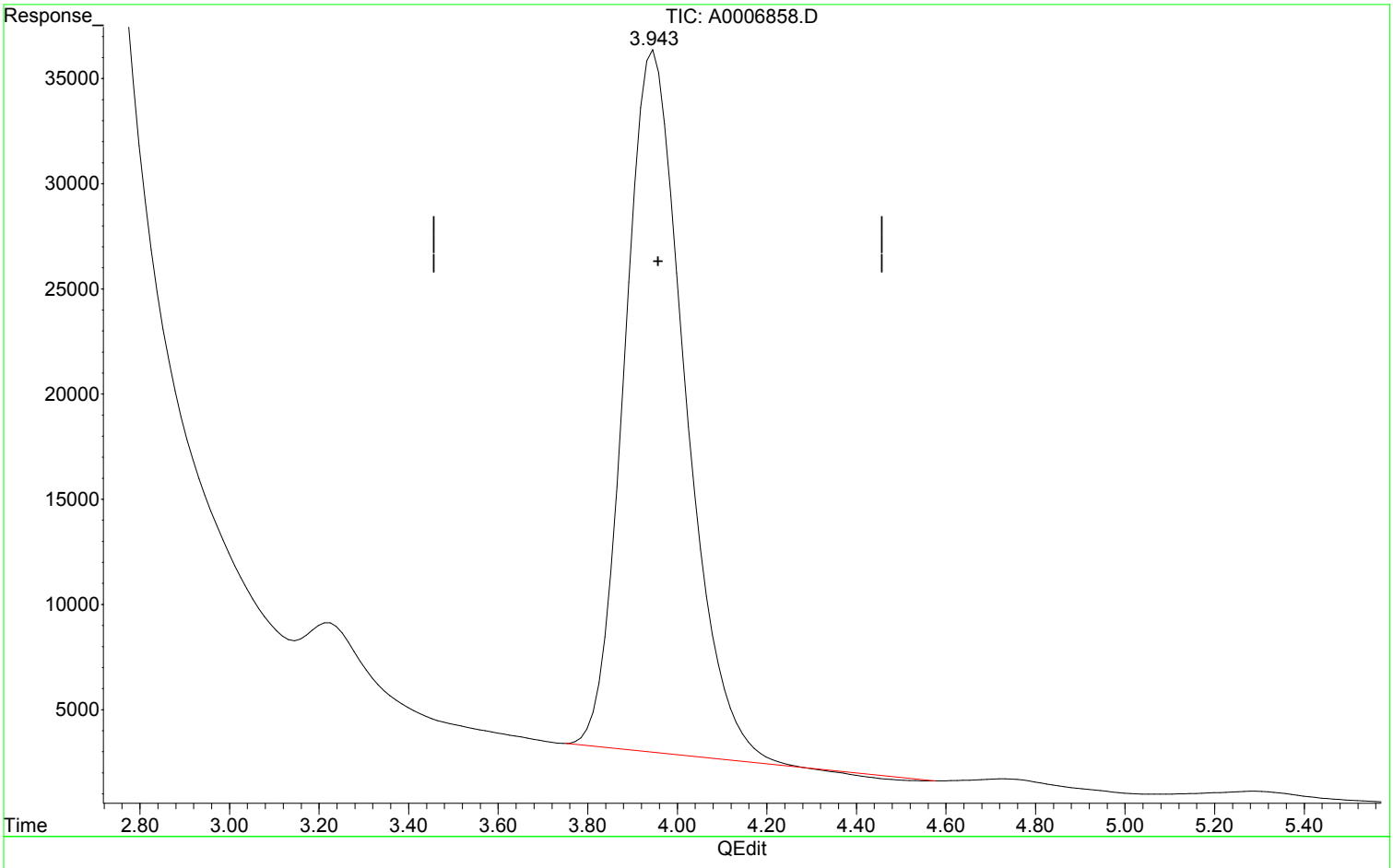
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006858.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 18:38:19
Operator : AFelser
Sample : R2404674-008
Misc :
ALS Vial : 41 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:38:53 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:36:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.948min 53.844 ppm

response 3145037

Manual Integration:

Before

06/10/24

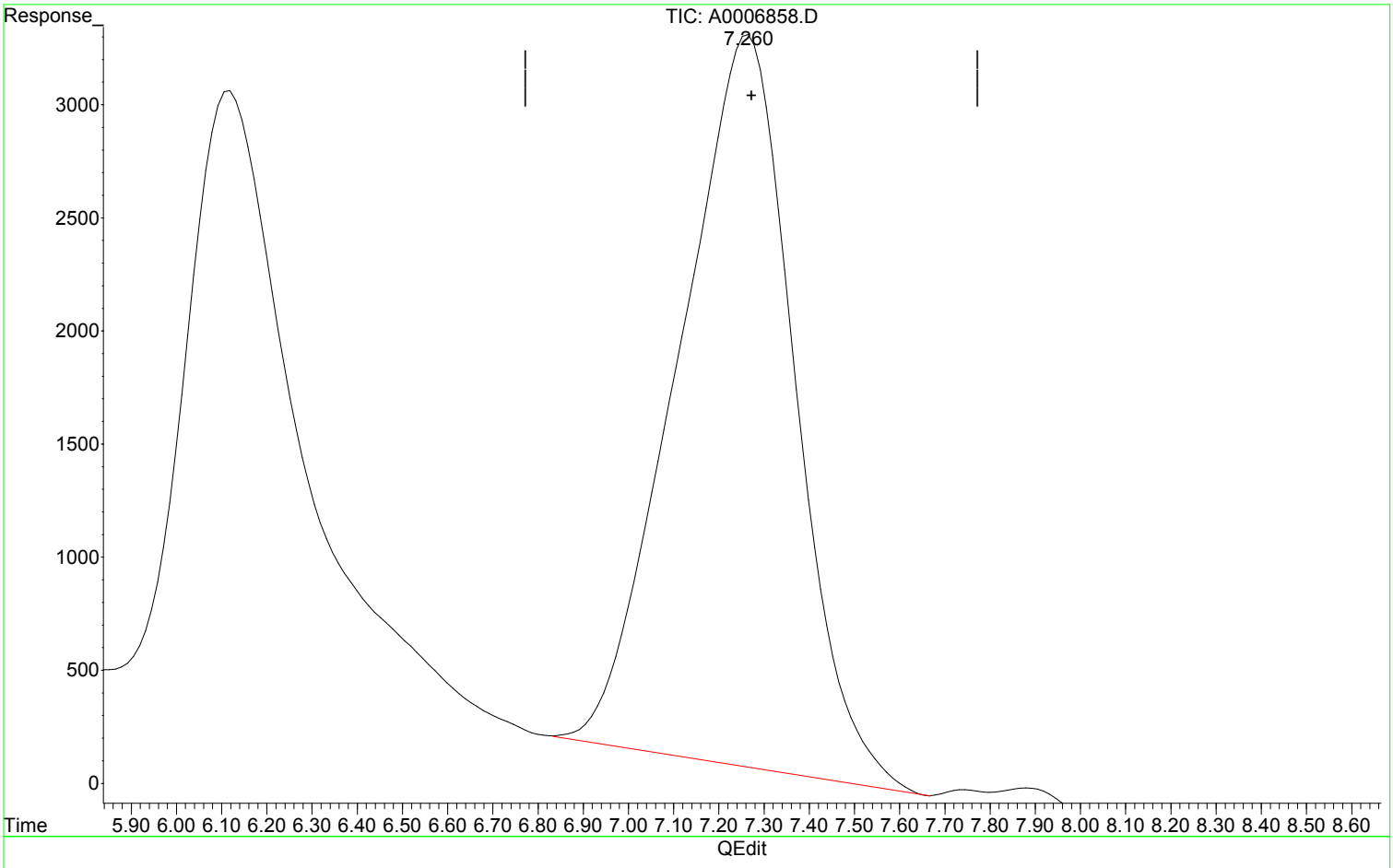
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006858.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 18:38:19
Operator : AFelser
Sample : R2404674-008
Misc :
ALS Vial : 41 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:38:53 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:36:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.260min 10.308 ppm m

response 577621

Manual Integration:

After

Poor integration.

06/10/24

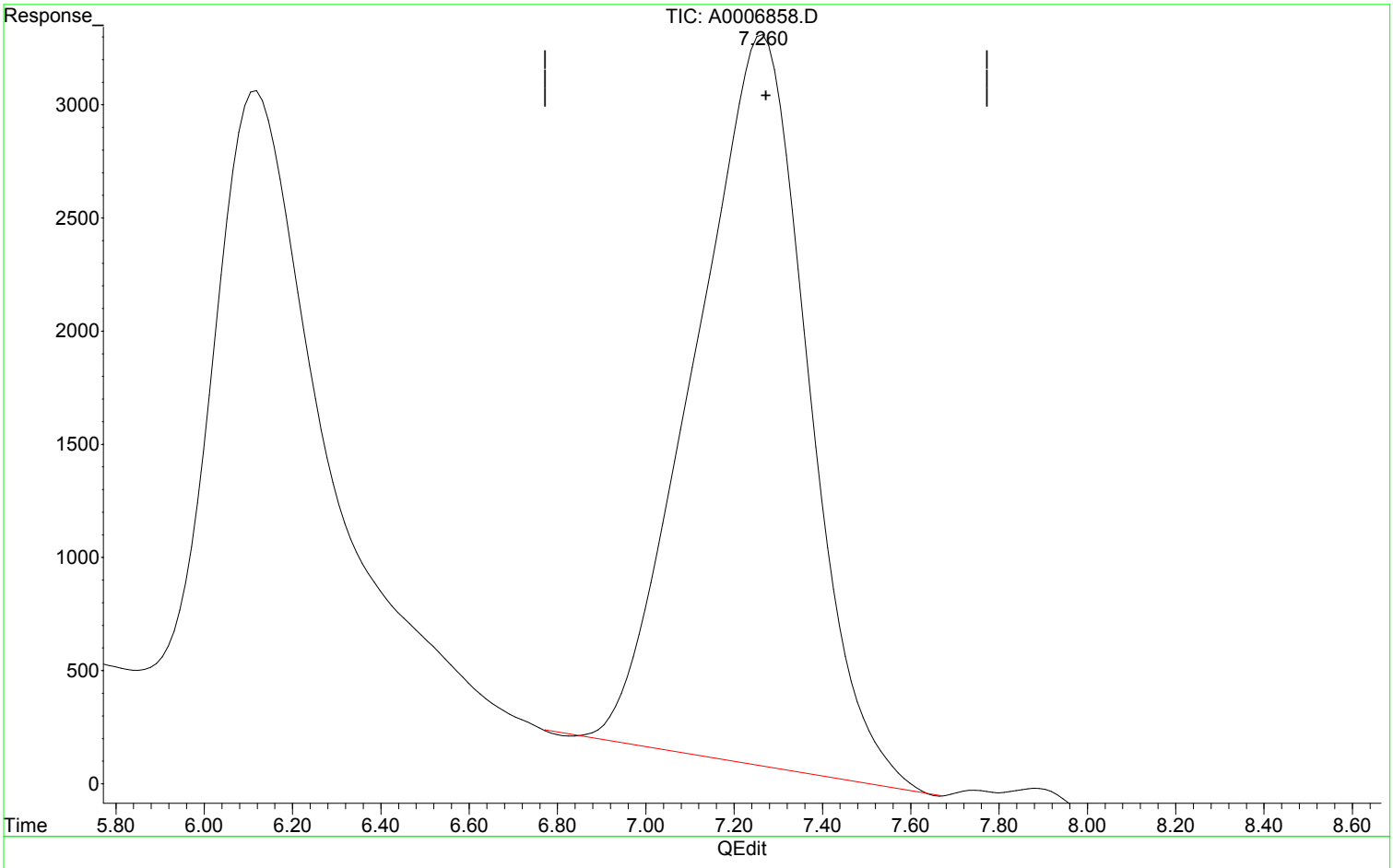
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006858.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 18:38:19
Operator : AFelser
Sample : R2404674-008
Misc :
ALS Vial : 41 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:38:53 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:36:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.266min 10.262 ppm

response 575033

Manual Integration:

Before

06/10/24

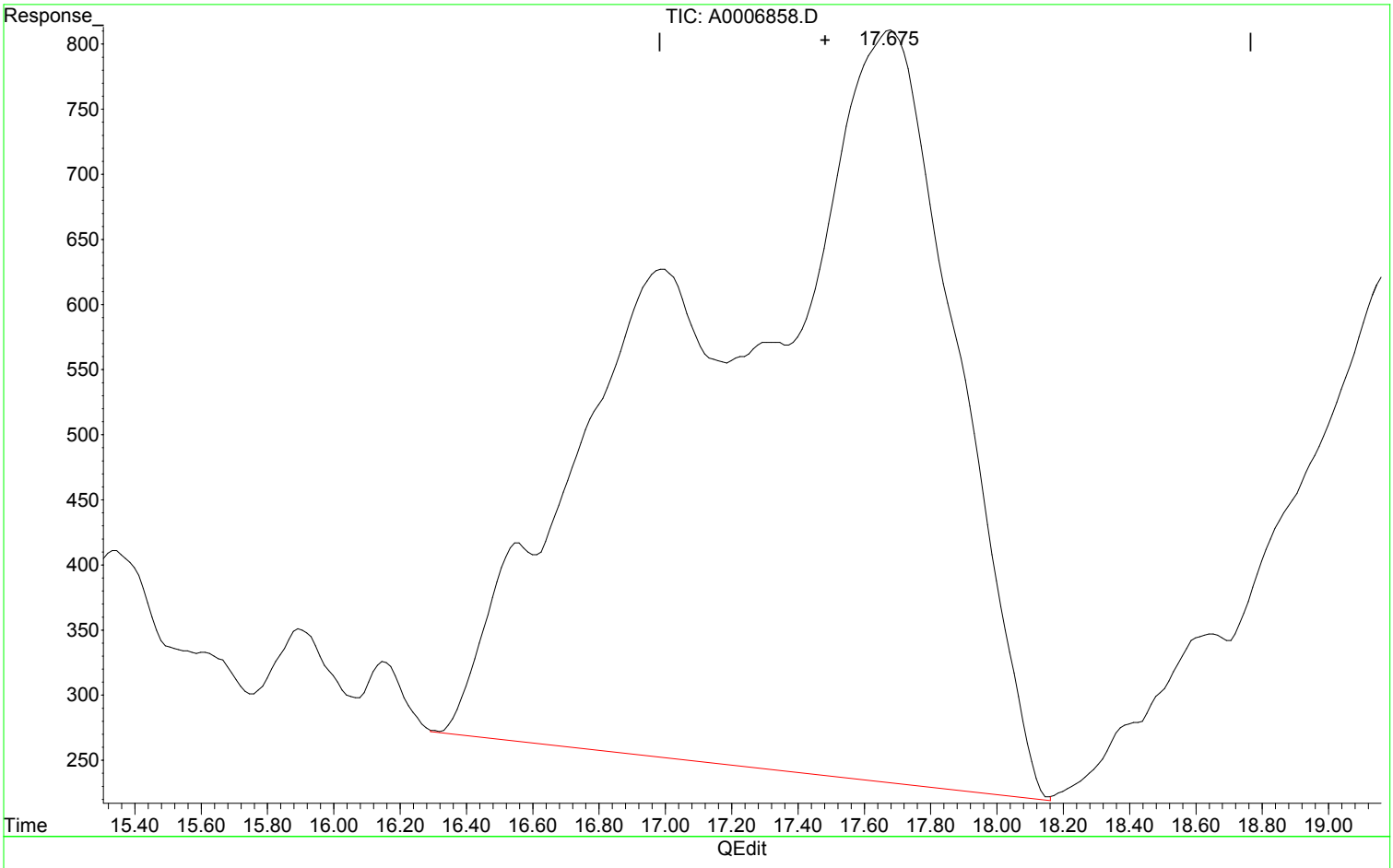
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006858.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 18:38:19
Operator : AFelser
Sample : R2404674-008
Misc :
ALS Vial : 41 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:38:53 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:36:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.675min 3.893 ppm m

response 318529

Manual Integration:

After

Poor integration.

06/10/24

(+) = Expected Retention Time

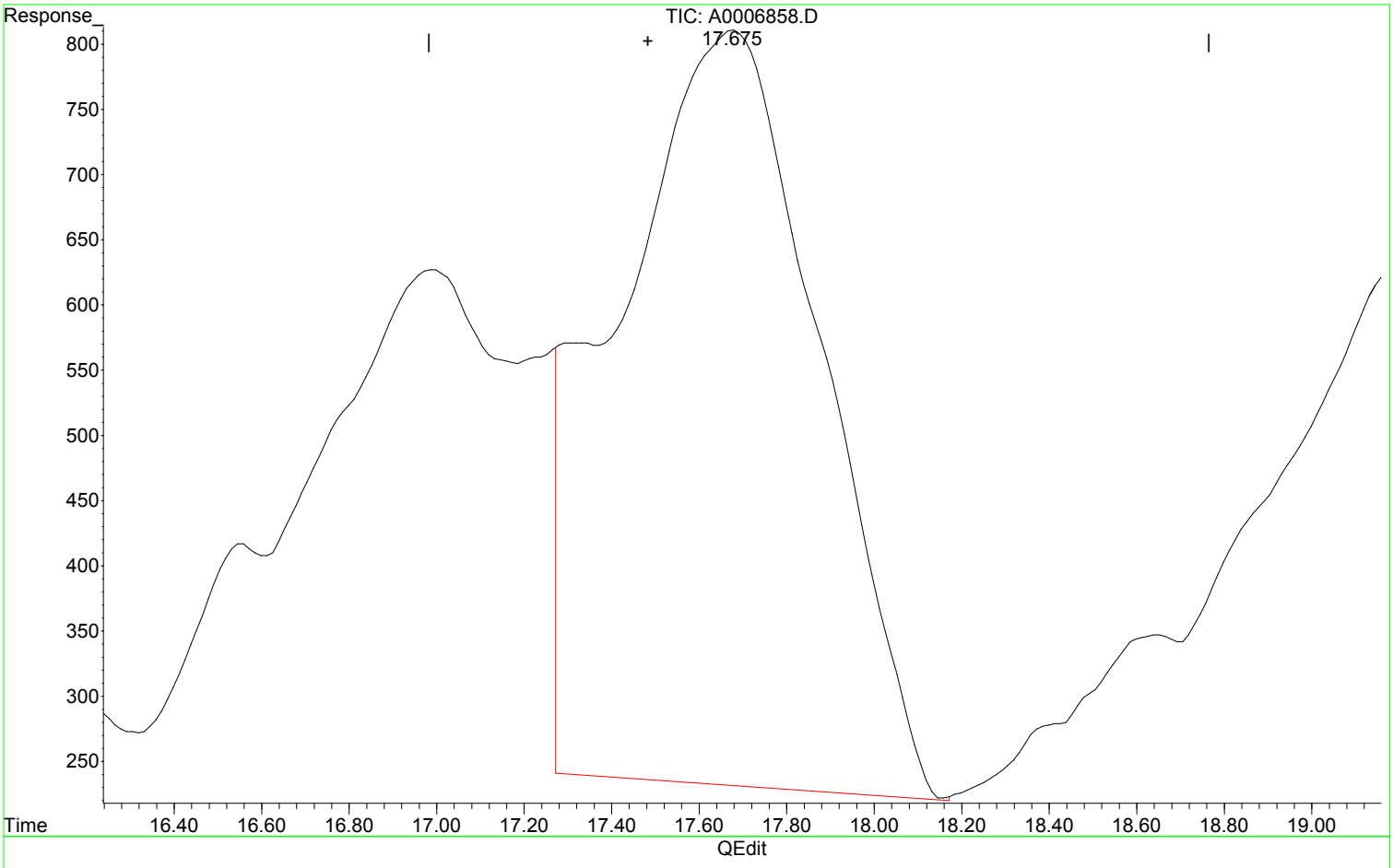
Quantitation Report (Qedit)

1st 06/10/24
2nd 06/12/24

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006858.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 18:38:19
Operator : AFelser
Sample : R2404674-008
Misc :
ALS Vial : 41 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:38:53 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:36:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.675min 2.288 ppm m

response 187169

Manual Integration:

Before

06/10/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006858.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 18:38:19
Operator : AFelser
Sample : R2404674-008
Misc :
ALS Vial : 41 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:38:53 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:36:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

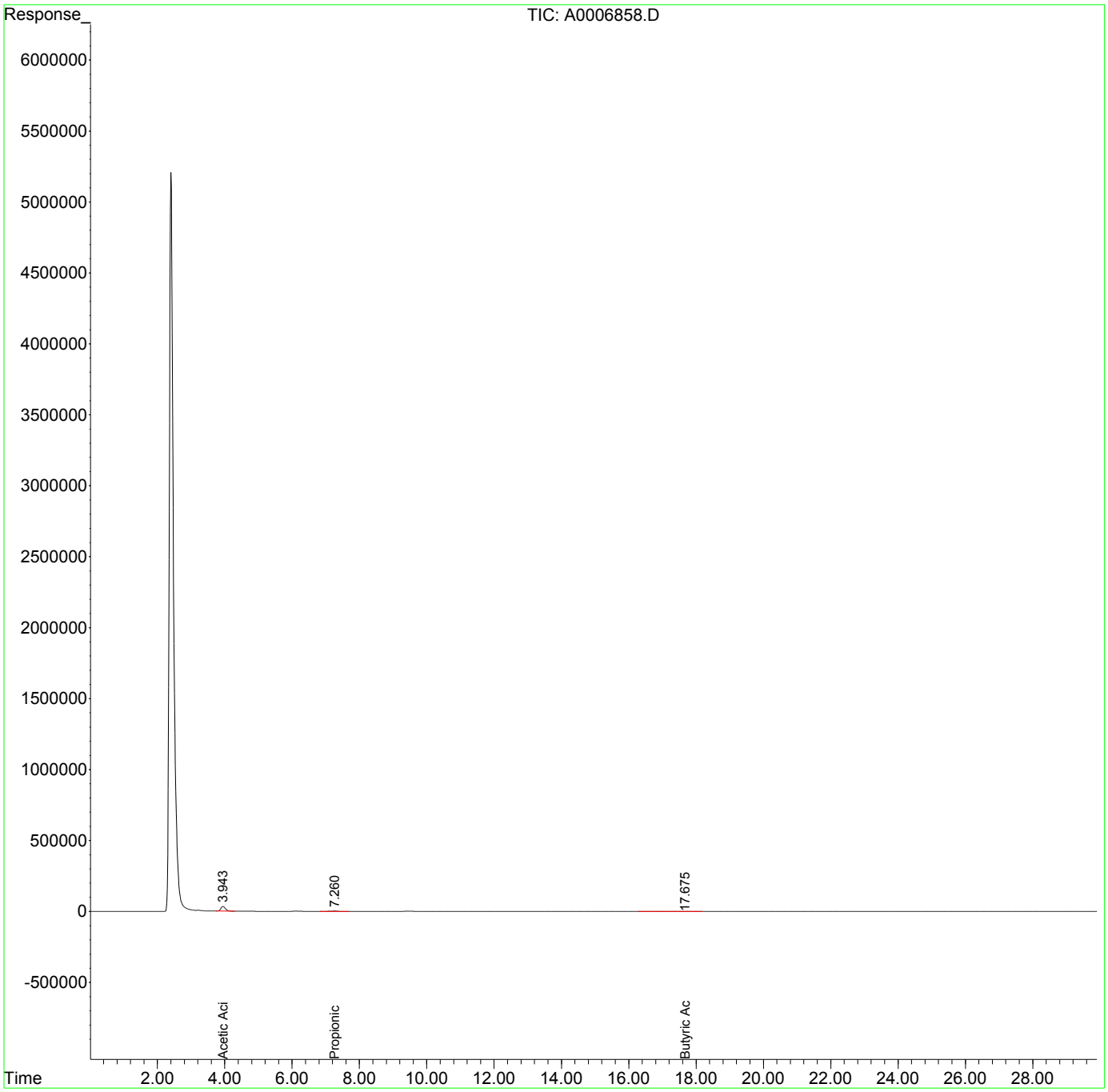
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.223	-128103	N.D.	ppm	
2) T	Pyruvic acid	3.223	-128103	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	3.943	3157183	54.052	ppm	m
5) T	Propionic Acid	7.260	577621	10.308	ppm	m
6) T	Butyric Acid	17.675	318529	3.893	ppm	m

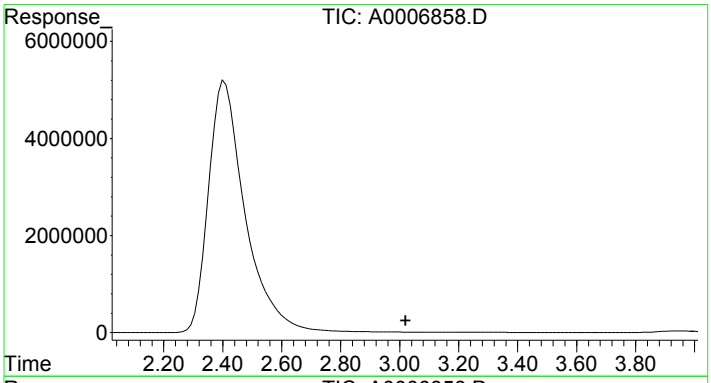
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006858.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 18:38:19
Operator : AFelser
Sample : R2404674-008
Misc :
ALS Vial : 41 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:38:53 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:36:48 2024
Response via : Initial Calibration
Integrator: ChemStation

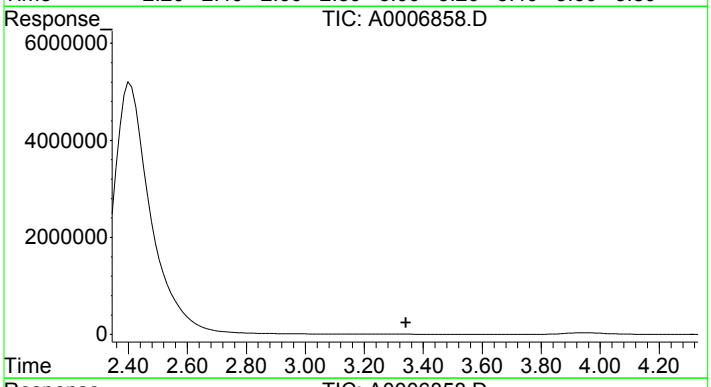
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





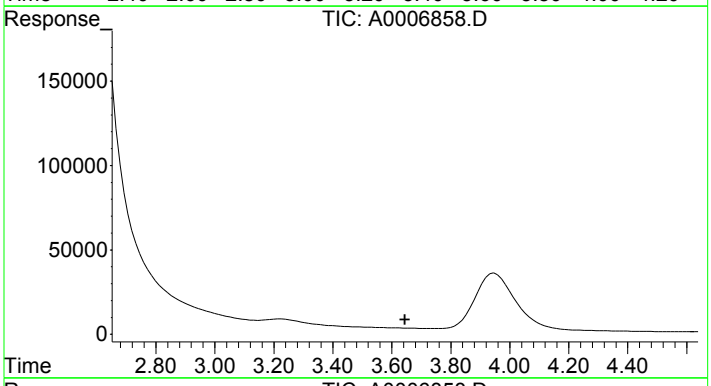
#1 Formic acid

R.T.: 3.223 min
Delta R.T.: 0.203 min
Response: -128103
Conc: N.D.



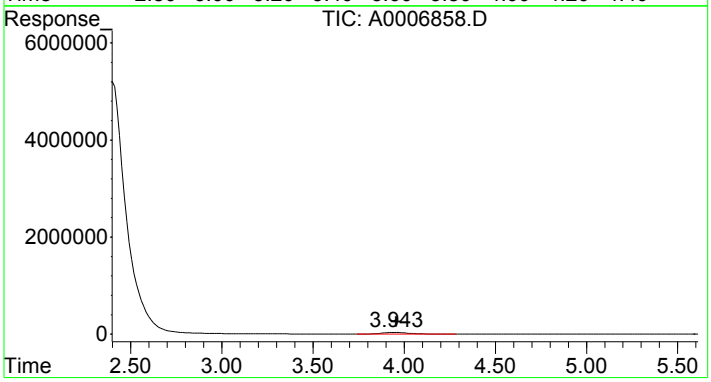
#2 Pyruvic acid

R.T.: 3.223 min
Delta R.T.: -0.119 min
Response: -128103
Conc: N.D.



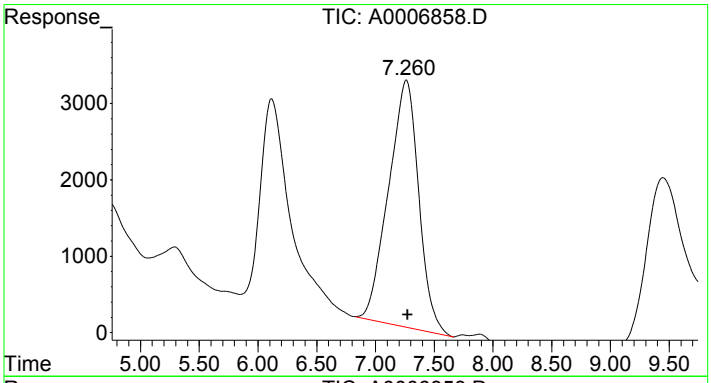
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.644 min
Response: 0
Conc: N.D.



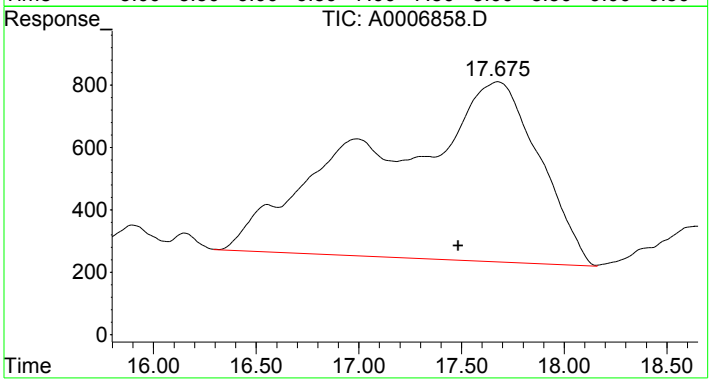
#4 Acetic Acid

R.T.: 3.943 min
Delta R.T.: -0.015 min
Response: 3157183
Conc: 54.05 ppm m



#5 Propionic Acid

R.T.: 7.260 min
Delta R.T.: -0.012 min
Response: 577621
Conc: 10.31 ppm m



#6 Butyric Acid

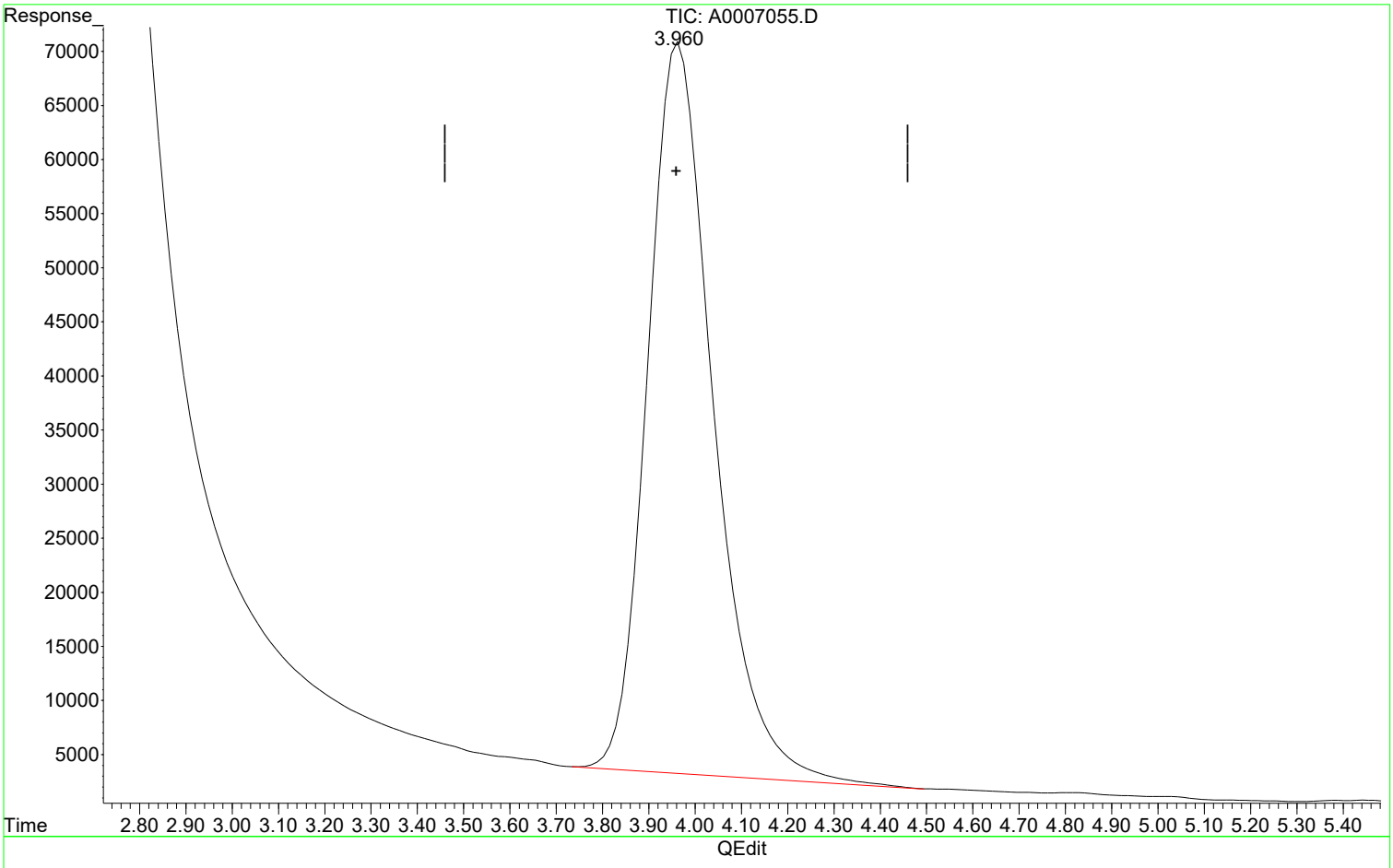
R.T.: 17.675 min
Delta R.T.: 0.192 min
Response: 318529
Conc: 3.89 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007055.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 03:11:07
Operator : AFelser
Sample : R2404674-009|2
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:47:03 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.960min 116.164 ppm m

response 6705223

Manual Integration:

After

Poor integration.

06/19/24

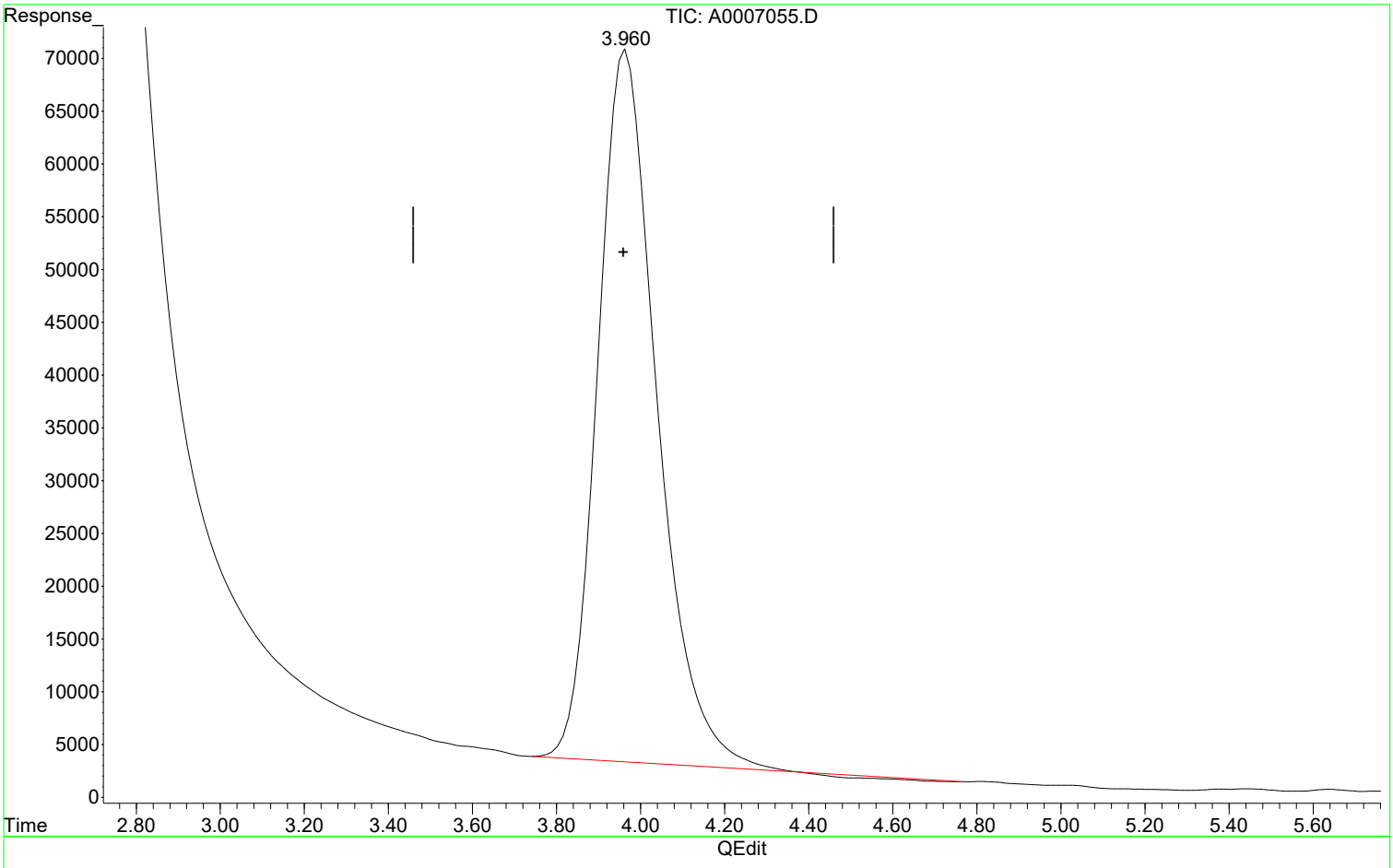
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007055.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 03:11:07
Operator : AFelser
Sample : R2404674-009|2
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:47:03 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.966min 114.626 ppm

response 6616428

Manual Integration:

Before

06/19/24

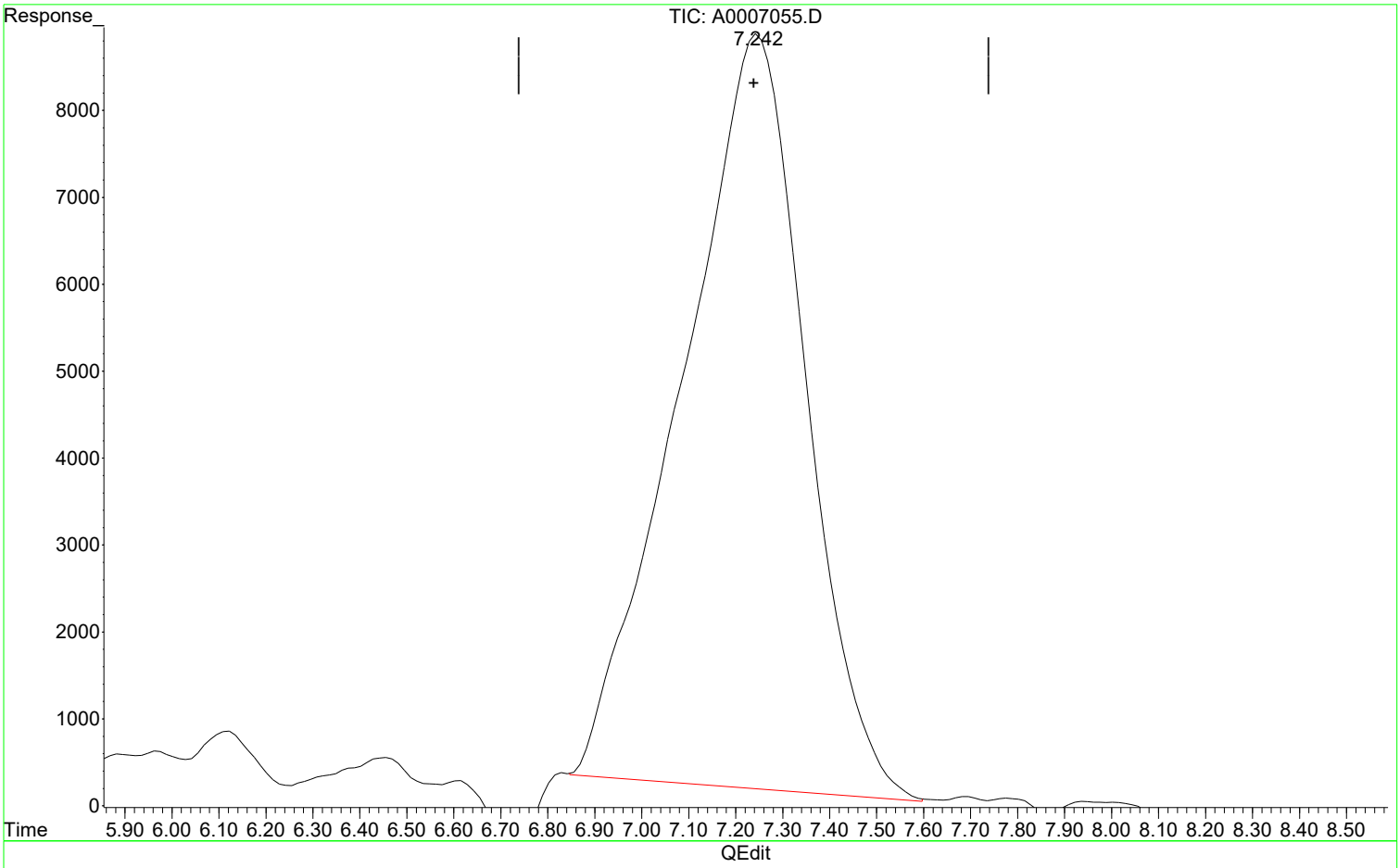
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007055.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 03:11:07
Operator : AFelser
Sample : R2404674-009|2
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:47:03 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.242min 27.014 ppm m

response 1585021

Manual Integration:

After

Poor integration.

06/19/24

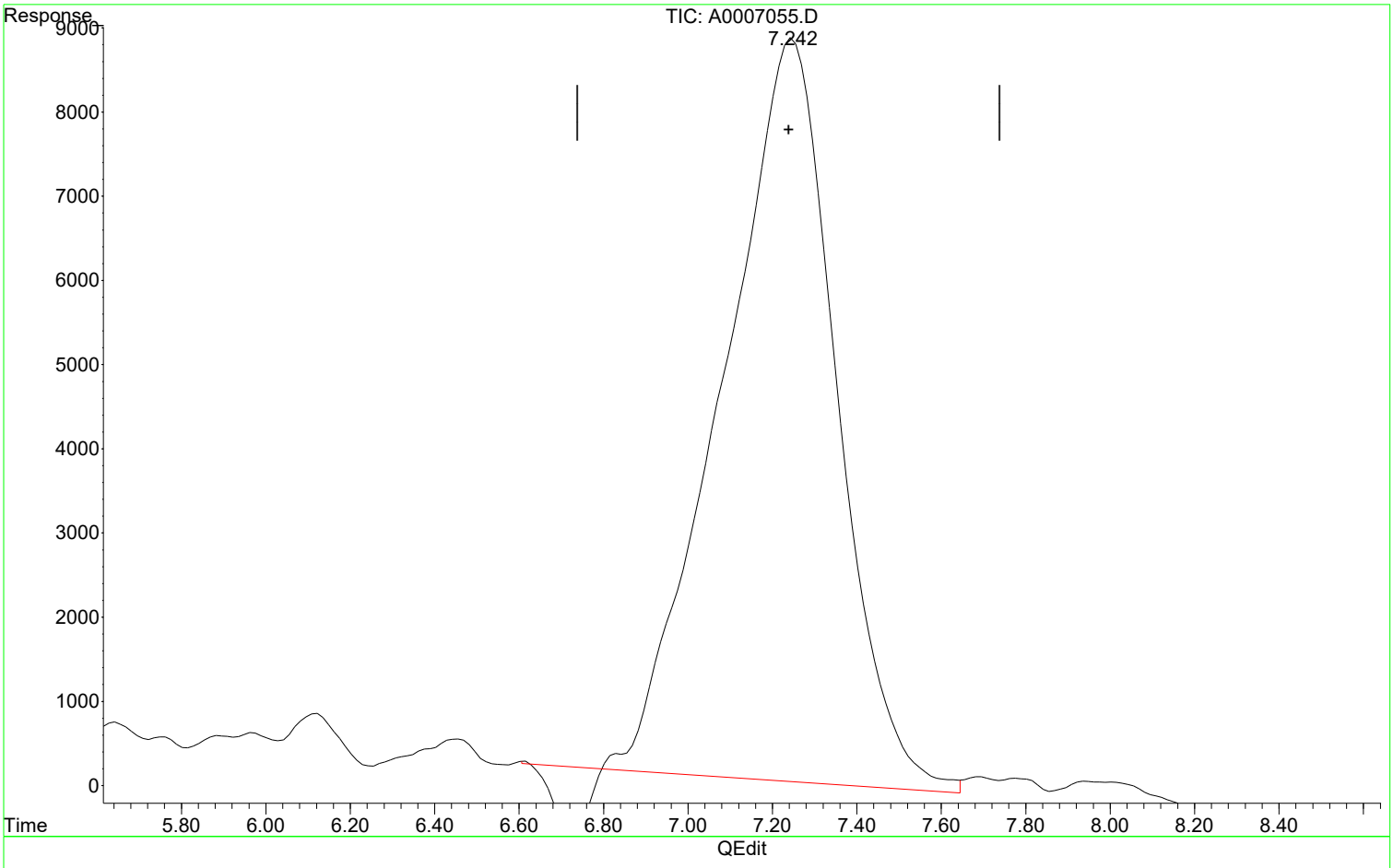
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007055.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 03:11:07
Operator : AFelser
Sample : R2404674-009|2
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:47:03 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.248min 27.627 ppm

response 1621017

Manual Integration:

Before

06/19/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007055.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 03:11:07
Operator : AFelser
Sample : R2404674-009|2
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:47:03 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

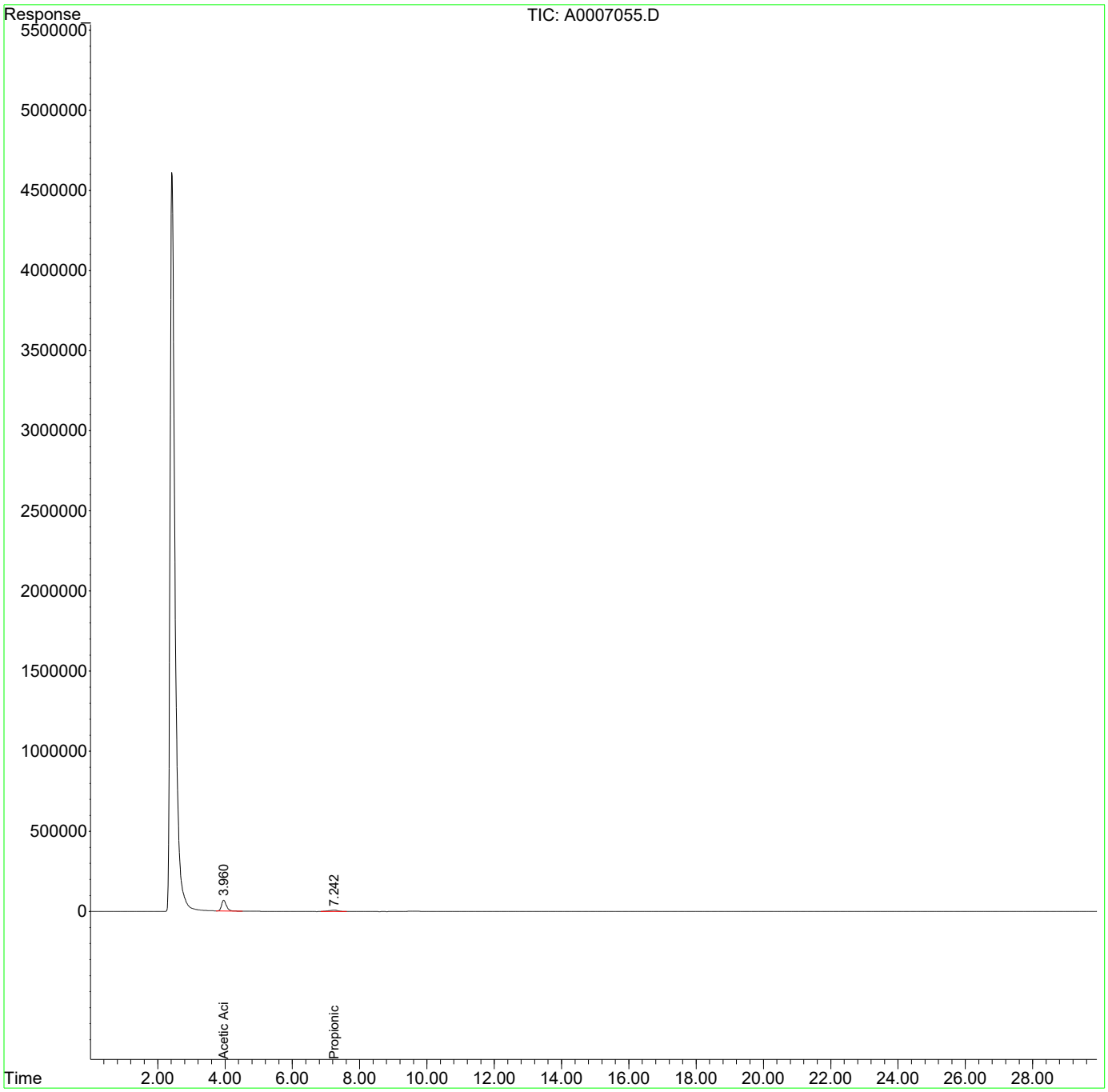
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	3.960	6705223	116.164	ppm	m
5) T	Propionic Acid	7.242	1585021	27.014	ppm	m
6) T	Butyric Acid	0.000	0	N.D.	ppm	d

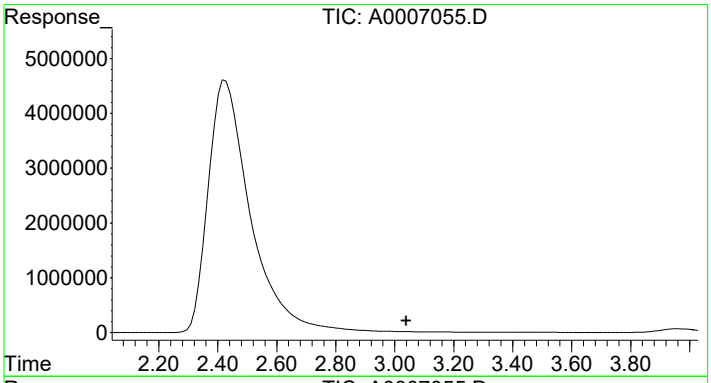
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007055.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 03:11:07
Operator : AFelser
Sample : R2404674-009|2
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:47:03 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

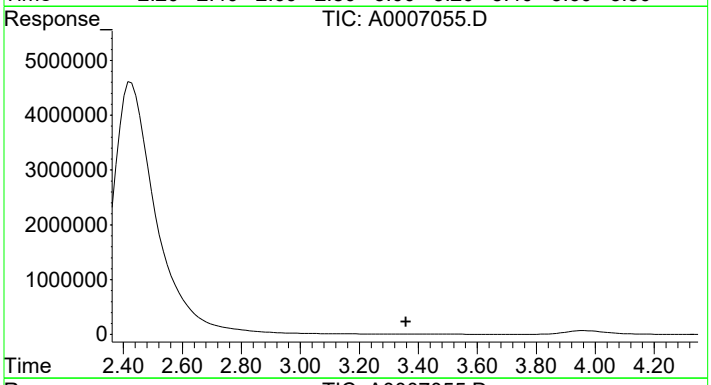
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





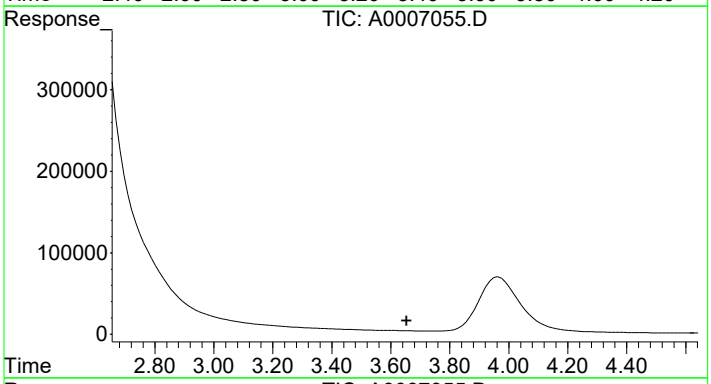
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.039 min
Response: 0
Conc: N.D.



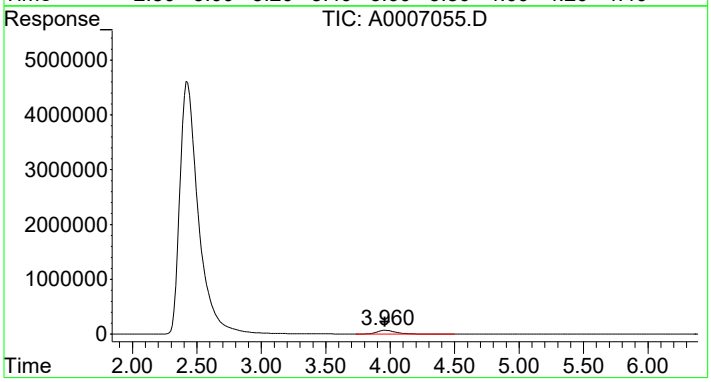
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.359 min
Response: 0
Conc: N.D.



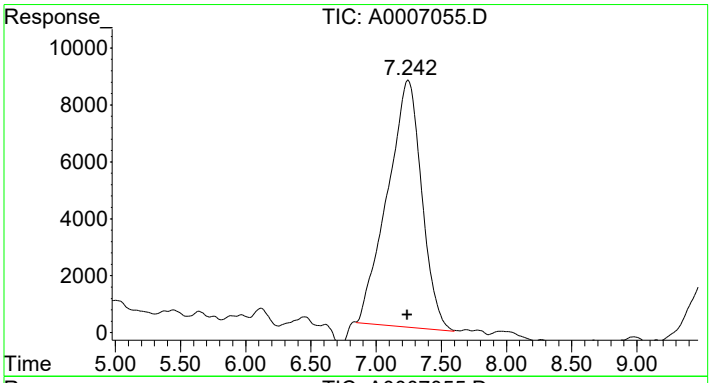
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.654 min
Response: 0
Conc: N.D.



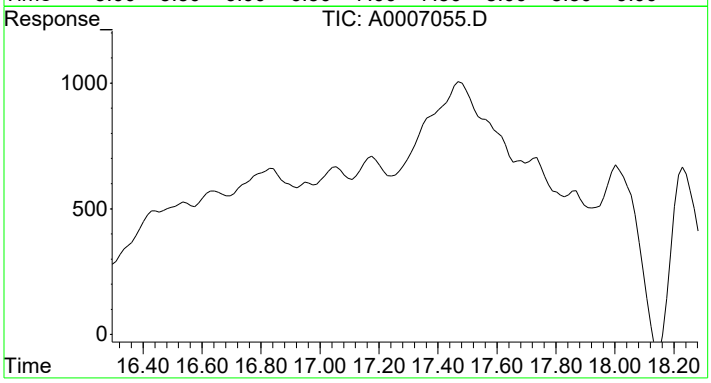
#4 Acetic Acid

R.T.: 3.960 min
Delta R.T.: 0.000 min
Response: 6705223
Conc: 116.16 ppm m



#5 Propionic Acid

R.T.: 7.242 min
Delta R.T.: 0.004 min
Response: 1585021
Conc: 27.01 ppm m



#6 Butyric Acid

R.T.: 0.000 min
Exp R.T. : 17.286 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006860.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 19:42:57
Operator : AFelser
Sample : R2404674-010
Misc :
ALS Vial : 43 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:38:57 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:36:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) t	Formic acid	0.000	0	N.D.	ppm
2) T	Pyruvic acid	0.000	0	N.D.	ppm
3) T	Lactic Acid	0.000	0	N.D.	ppm
4) T	Acetic Acid	0.000	0	N.D.	ppm
5) T	Propionic Acid	0.000	0	N.D.	ppm
6) T	Butyric Acid	0.000	0	N.D.	ppm

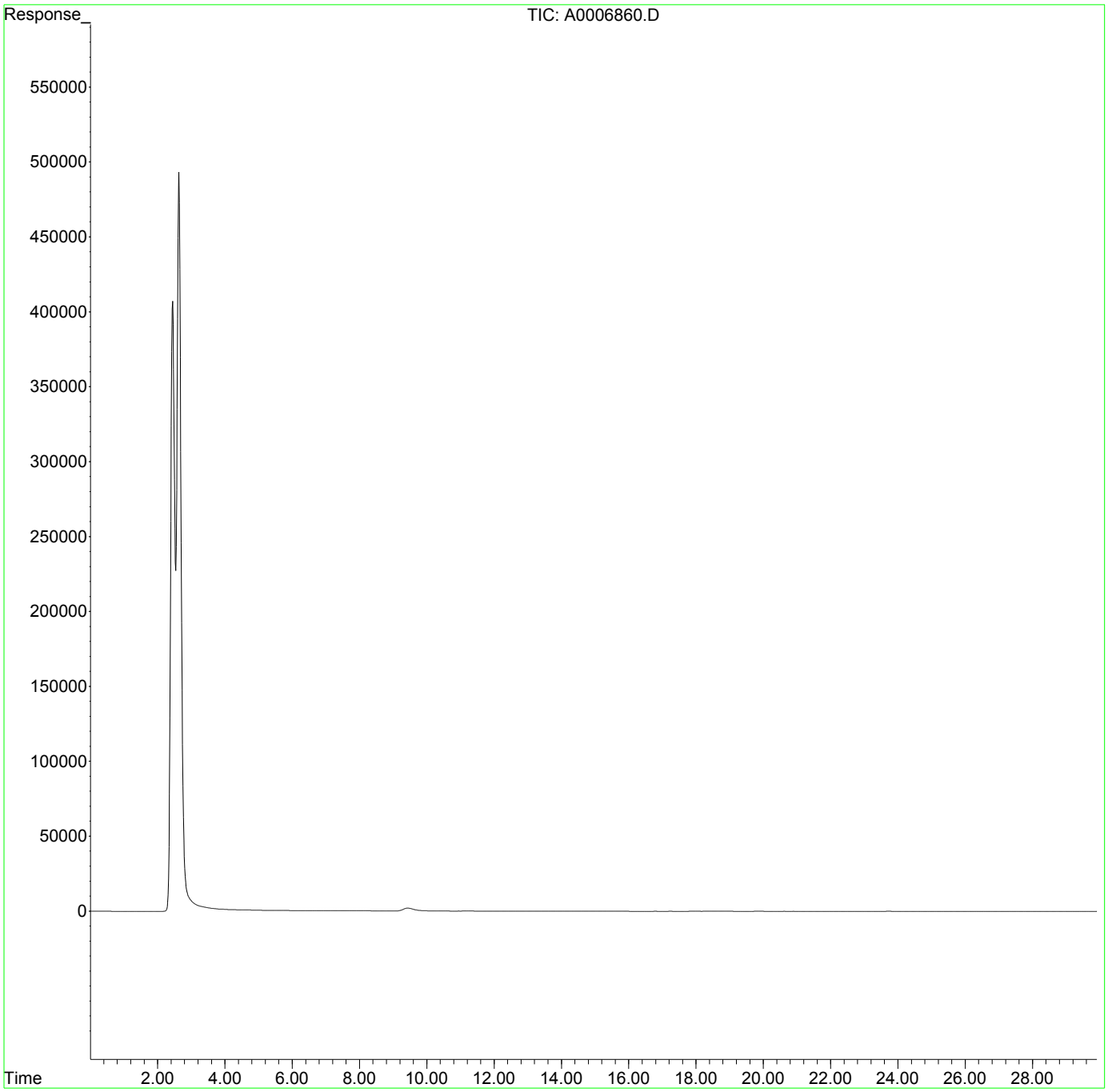
(f)=RT Delta > 1/2 Window (m)=manual int.

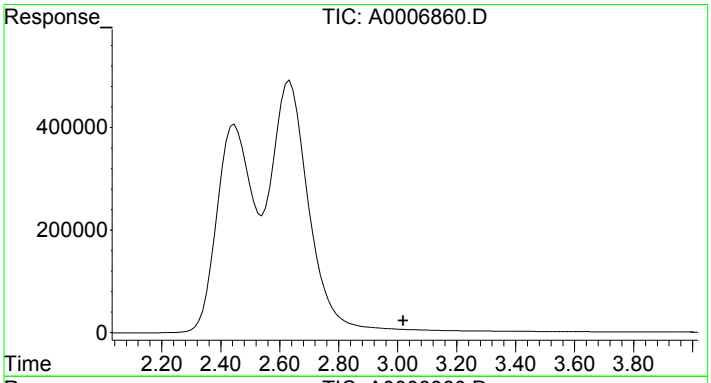
1st 06/10/24
2nd 06/12/24

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006860.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 19:42:57
Operator : AFelser
Sample : R2404674-010
Misc :
ALS Vial : 43 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:38:57 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:36:48 2024
Response via : Initial Calibration
Integrator: ChemStation

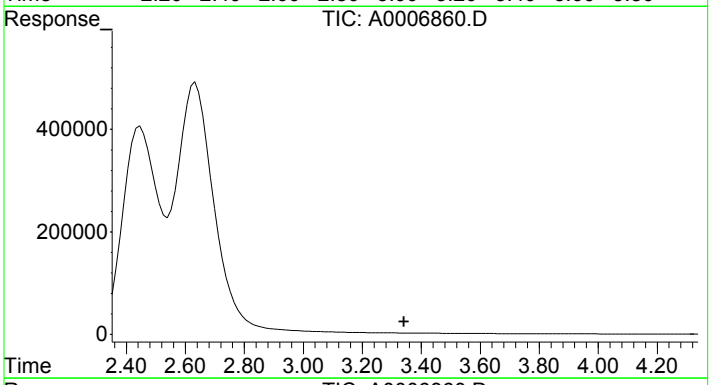
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





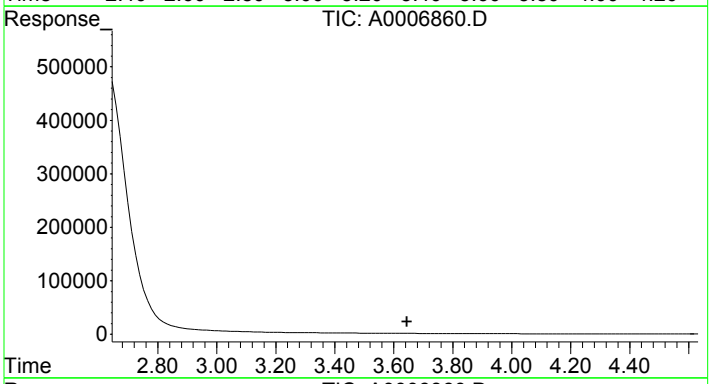
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.020 min
Response: 0
Conc: N.D.



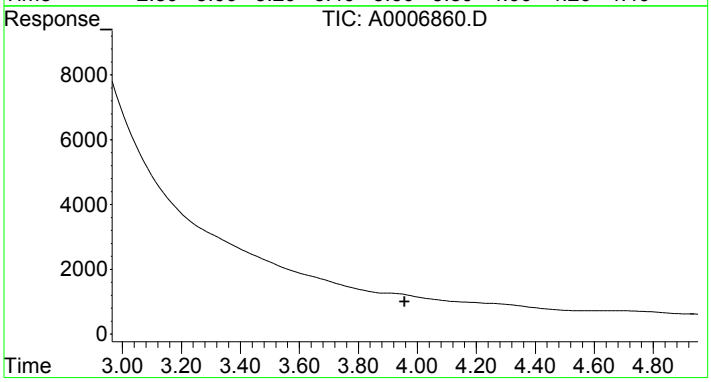
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.342 min
Response: 0
Conc: N.D.



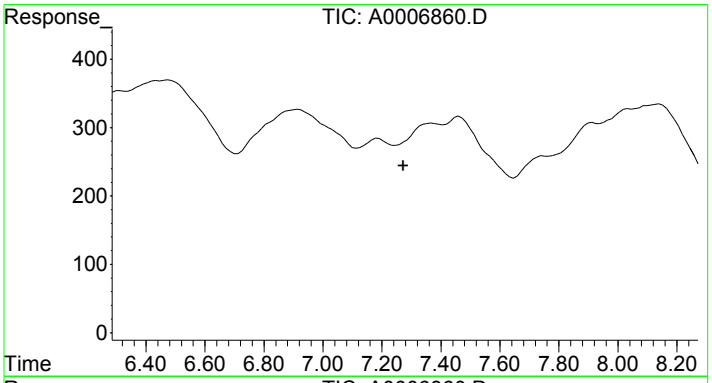
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.644 min
Response: 0
Conc: N.D.



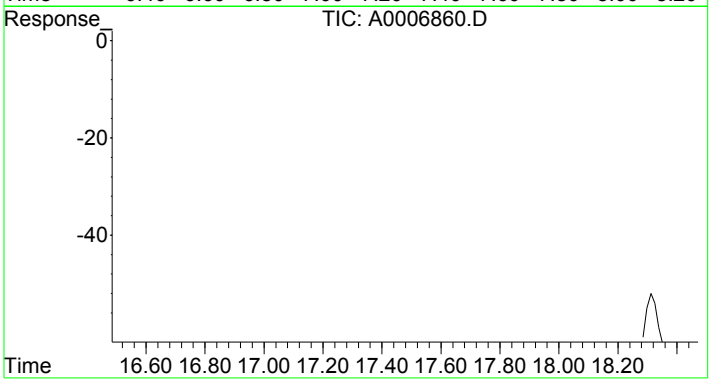
#4 Acetic Acid

R.T.: 0.000 min
Exp R.T. : 3.957 min
Response: 0
Conc: N.D.



#5 Propionic Acid

R.T.: 0.000 min
Exp R.T. : 7.273 min
Response: 0
Conc: N.D.



#6 Butyric Acid

R.T.: 0.000 min
Exp R.T. : 17.483 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006862.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 20:47:41
Operator : AFelser
Sample : R2404674-011
Misc :
ALS Vial : 44 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:43:54 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	d
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	0.000	0	N.D.	ppm	
5) T	Propionic Acid	0.000	0	N.D.	ppm	
6) T	Butyric Acid	0.000	0	N.D.	ppm	

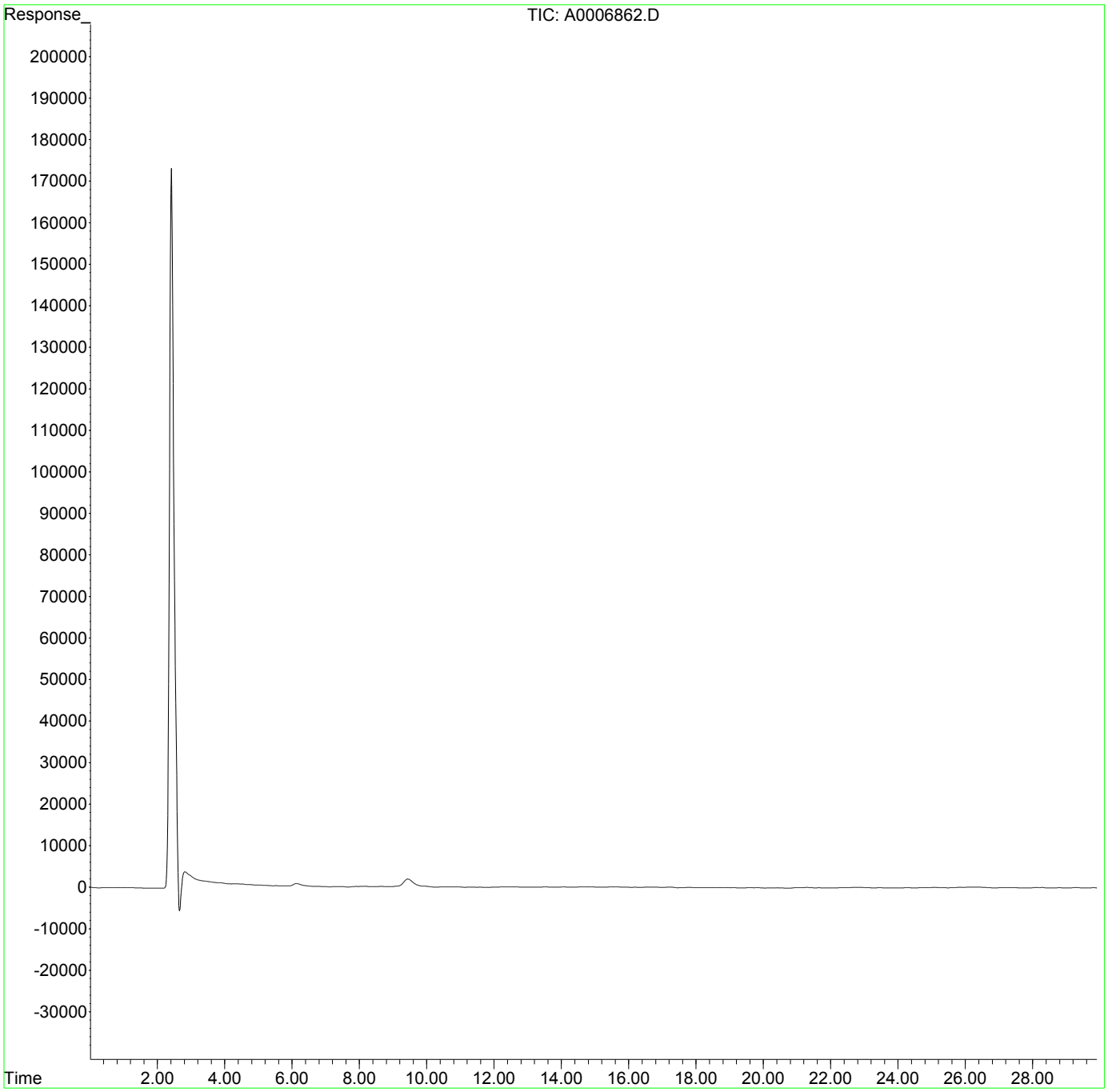
(f)=RT Delta > 1/2 Window (m)=manual int.

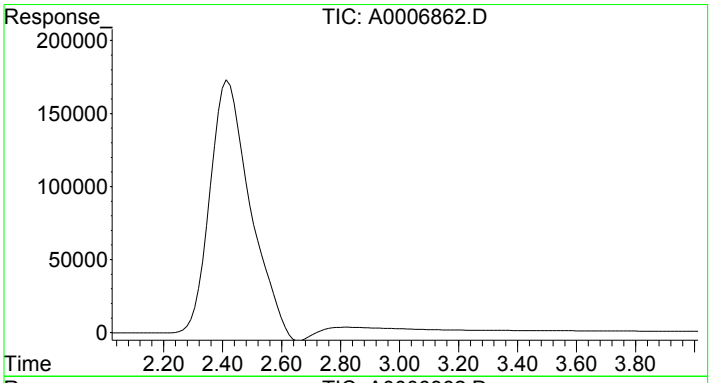
1st 06/10/24
2nd 06/12/24

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006862.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 20:47:41
Operator : AFelser
Sample : R2404674-011
Misc :
ALS Vial : 44 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:43:54 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

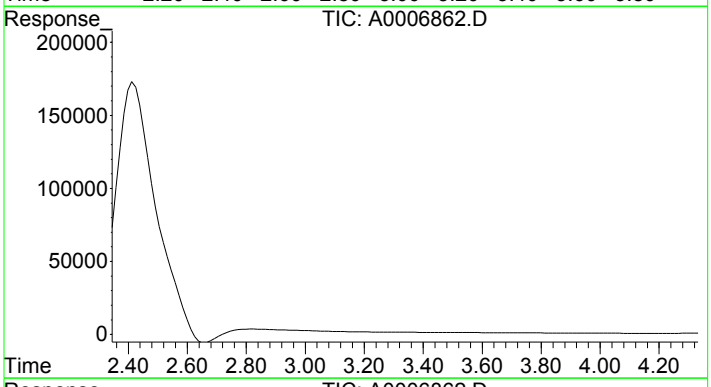
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





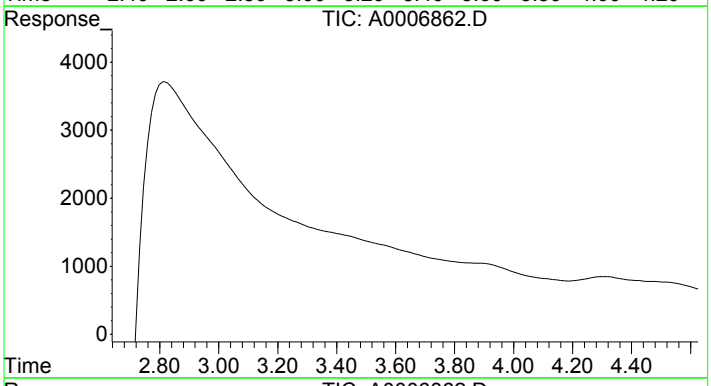
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.015 min
Response: 0
Conc: N.D.



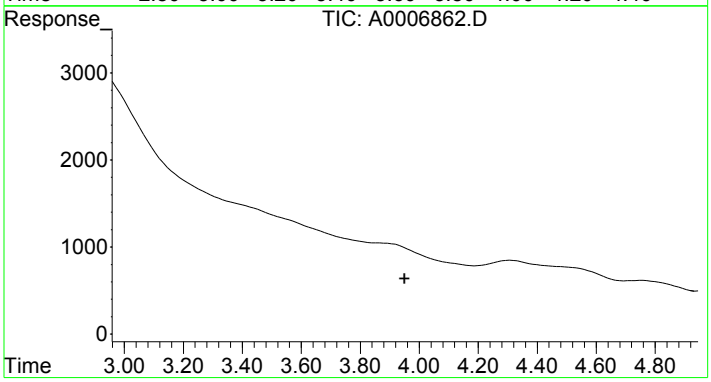
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.335 min
Response: 0
Conc: N.D.



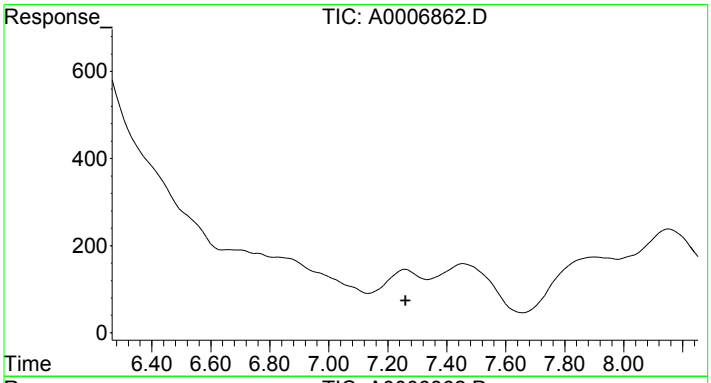
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.638 min
Response: 0
Conc: N.D.



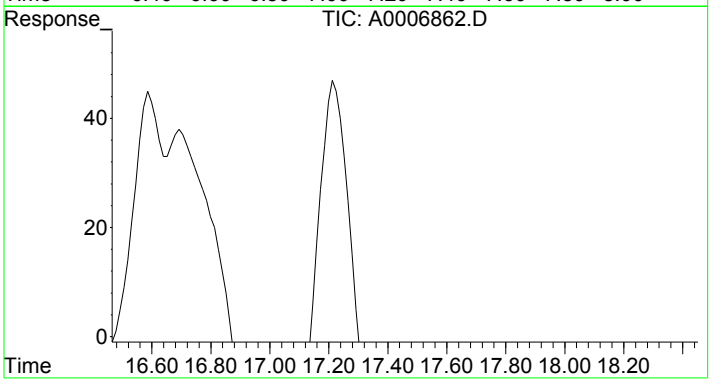
#4 Acetic Acid

R.T.: 0.000 min
Exp R.T. : 3.950 min
Response: 0
Conc: N.D.



#5 Propionic Acid

R.T.: 0.000 min
Exp R.T. : 7.260 min
Response: 0
Conc: N.D.



#6 Butyric Acid

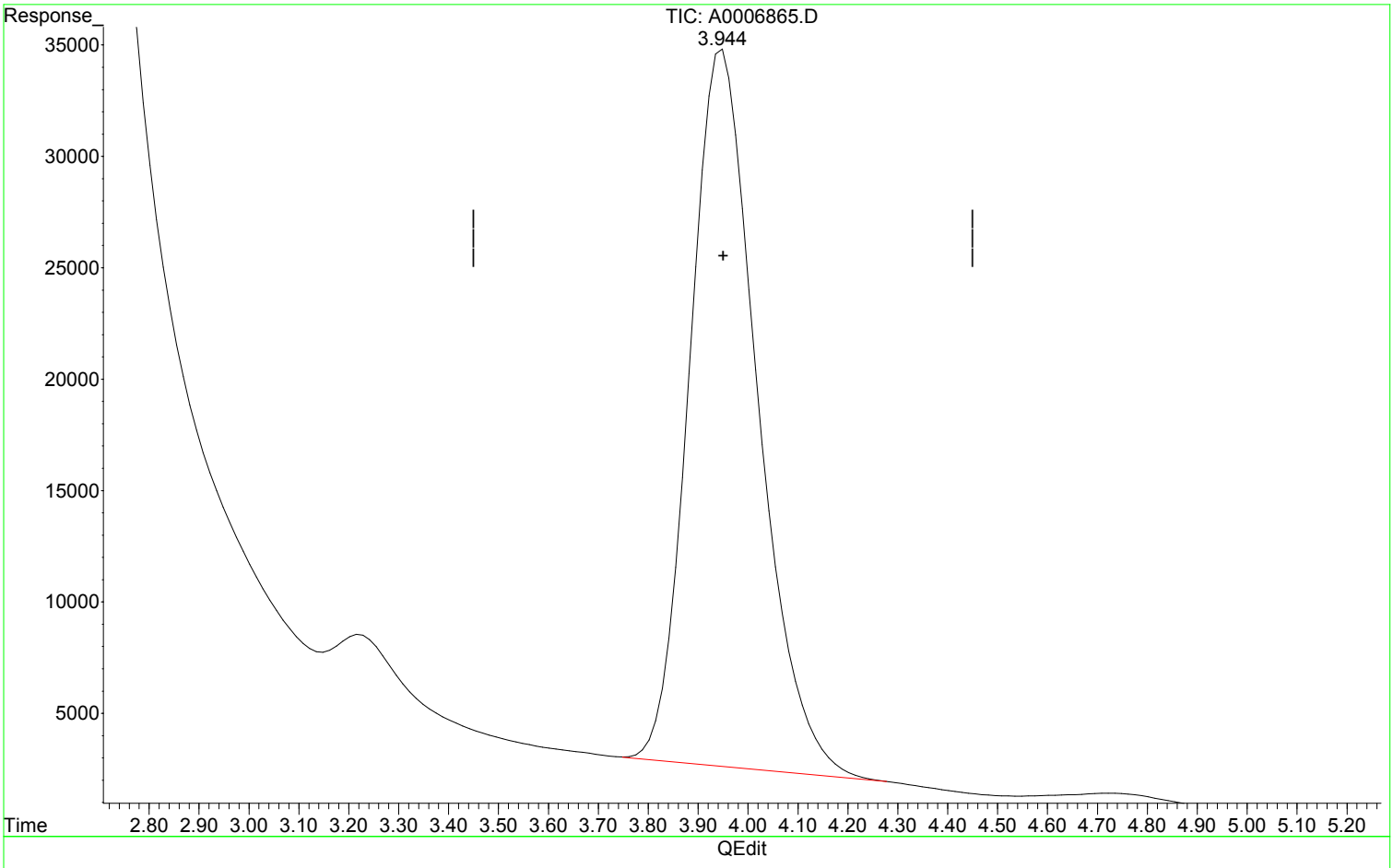
R.T.: 0.000 min
Exp R.T. : 17.462 min
Response: 0
Conc: N.D.

1st 06/10/24
2nd 06/12/24

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006865.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 22:24:43
Operator : AFelser
Sample : R2404674-013
Misc :
ALS Vial : 47 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:44:00 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.943min 52.174 ppm m

response 3047504

Manual Integration:

After

Poor integration.

06/10/24

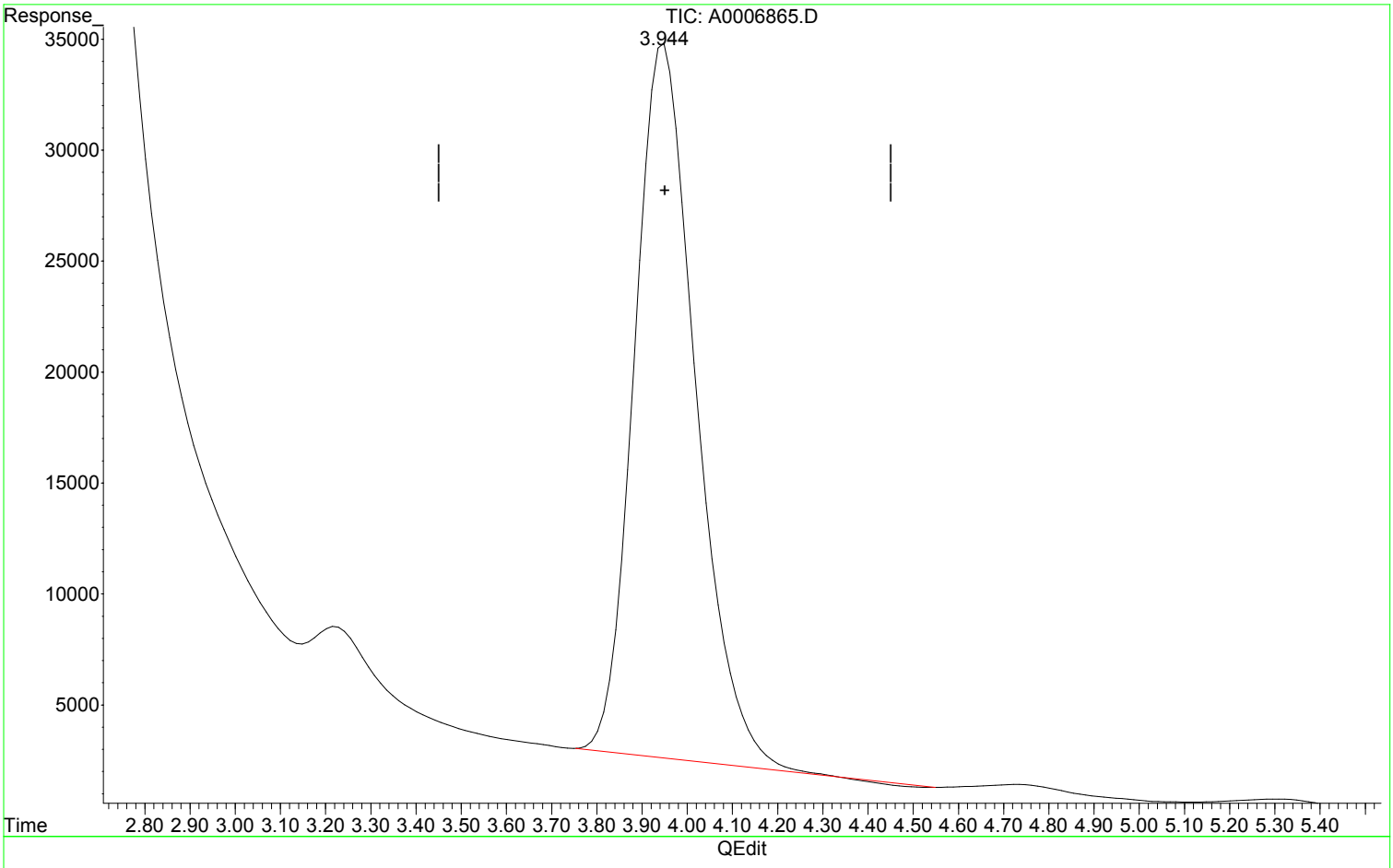
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006865.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 22:24:43
Operator : AFelser
Sample : R2404674-013
Misc :
ALS Vial : 47 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:44:00 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.949min 52.252 ppm

response 3052032

Manual Integration:

Before

06/10/24

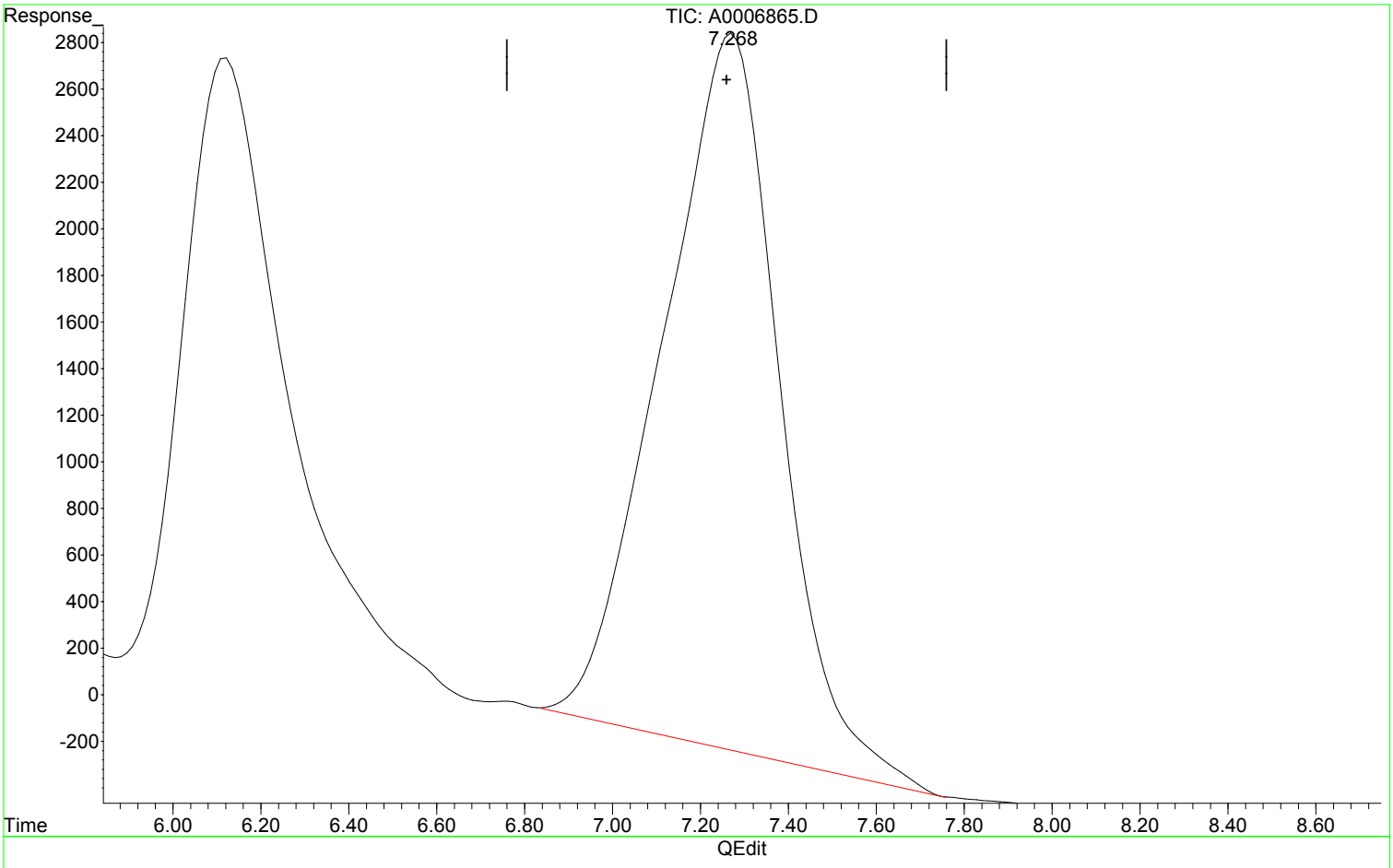
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006865.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 22:24:43
Operator : AFelser
Sample : R2404674-013
Misc :
ALS Vial : 47 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:44:00 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.268min 10.213 ppm m

response 572284

Manual Integration:

After

Poor integration.

06/10/24

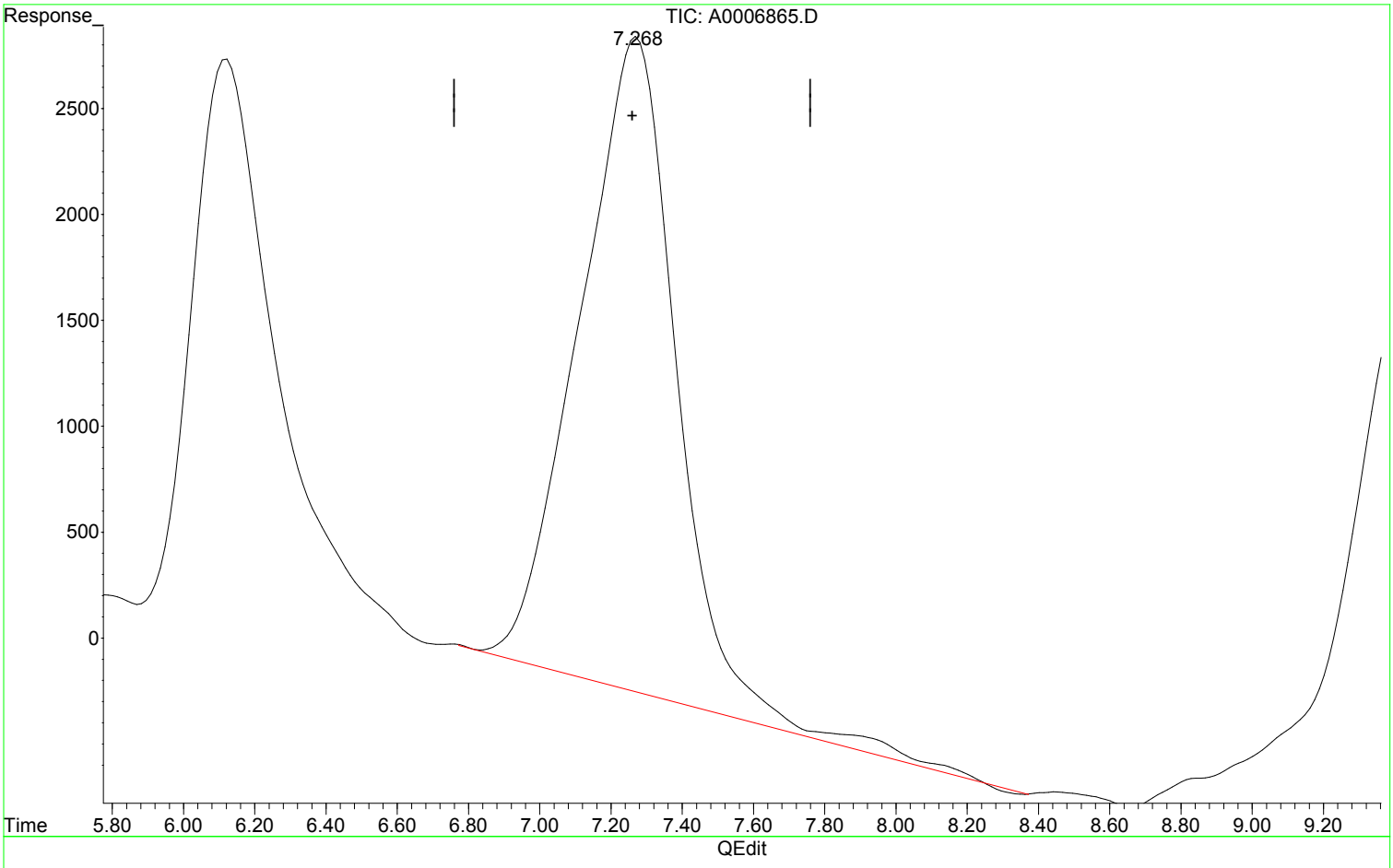
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006865.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 22:24:43
Operator : AFelser
Sample : R2404674-013
Misc :
ALS Vial : 47 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:44:00 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.273min 10.616 ppm

response 594852

Manual Integration:

Before

06/10/24

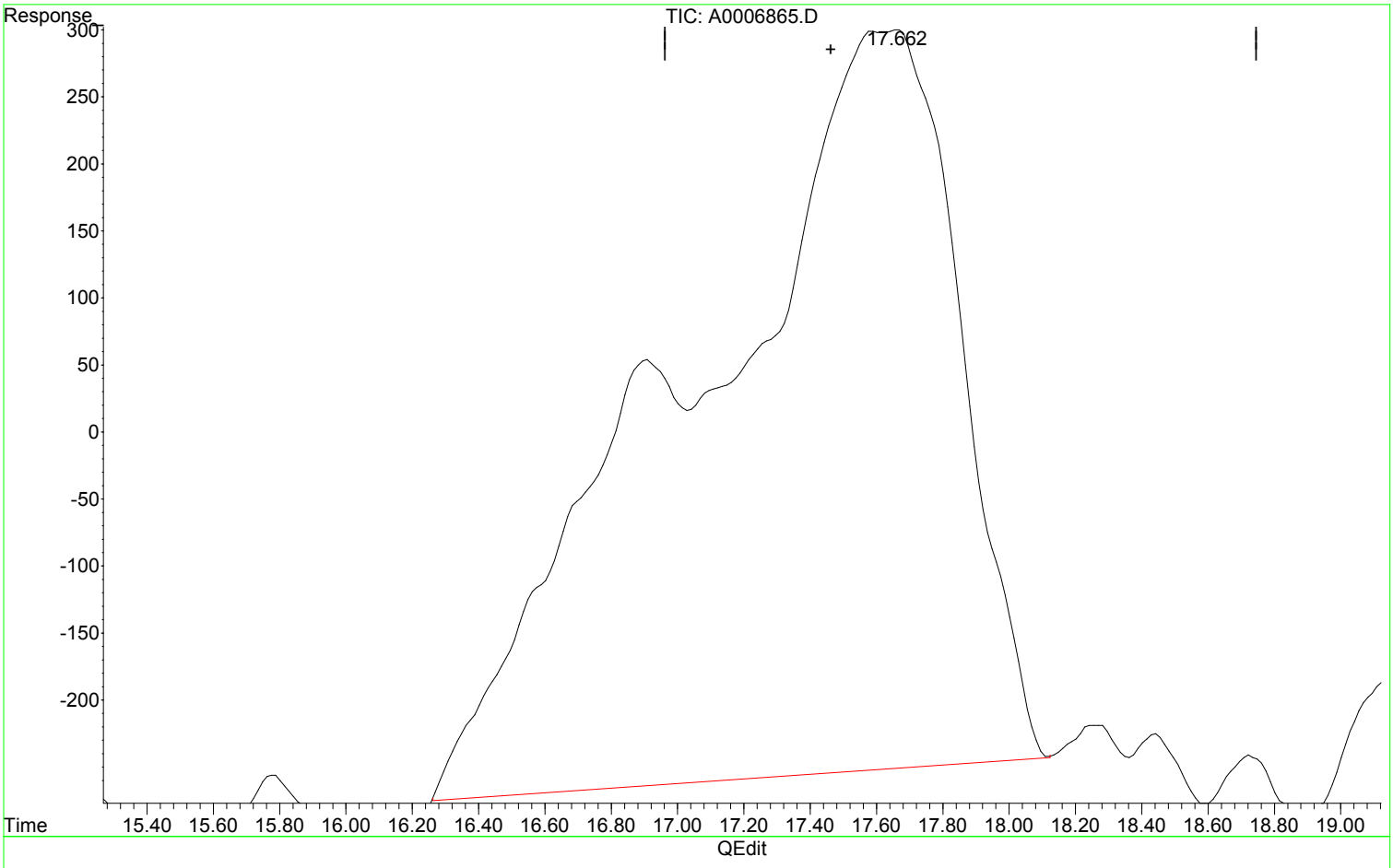
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006865.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 22:24:43
Operator : AFelser
Sample : R2404674-013
Misc :
ALS Vial : 47 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:44:00 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.662min 3.800 ppm m

response 310935

Manual Integration:

After

Poor integration.

06/10/24

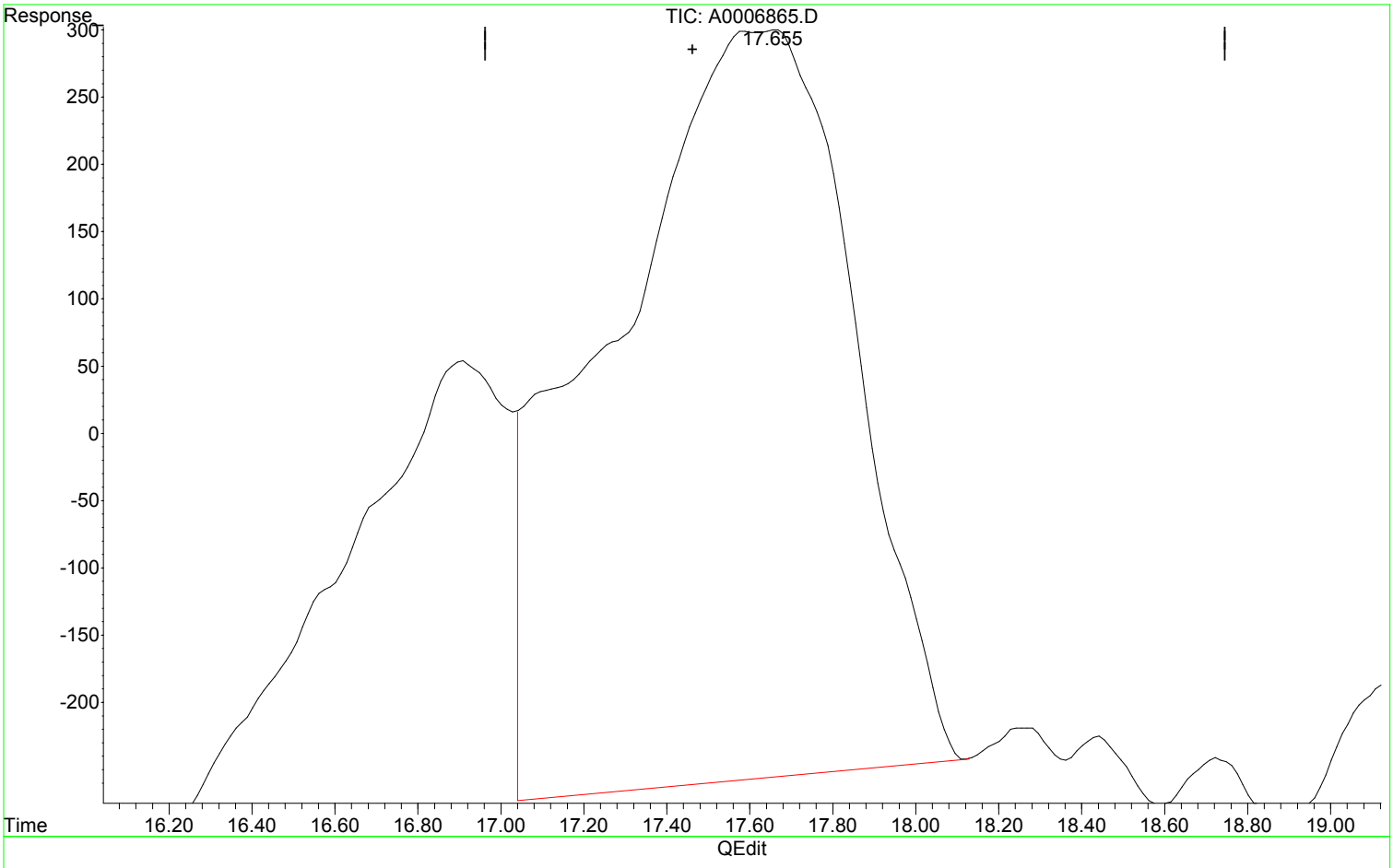
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006865.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 22:24:43
Operator : AFelser
Sample : R2404674-013
Misc :
ALS Vial : 47 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:44:00 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.664min 2.812 ppm

response 230088

Manual Integration:

Before

06/10/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006865.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 22:24:43
Operator : AFelser
Sample : R2404674-013
Misc :
ALS Vial : 47 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:44:00 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

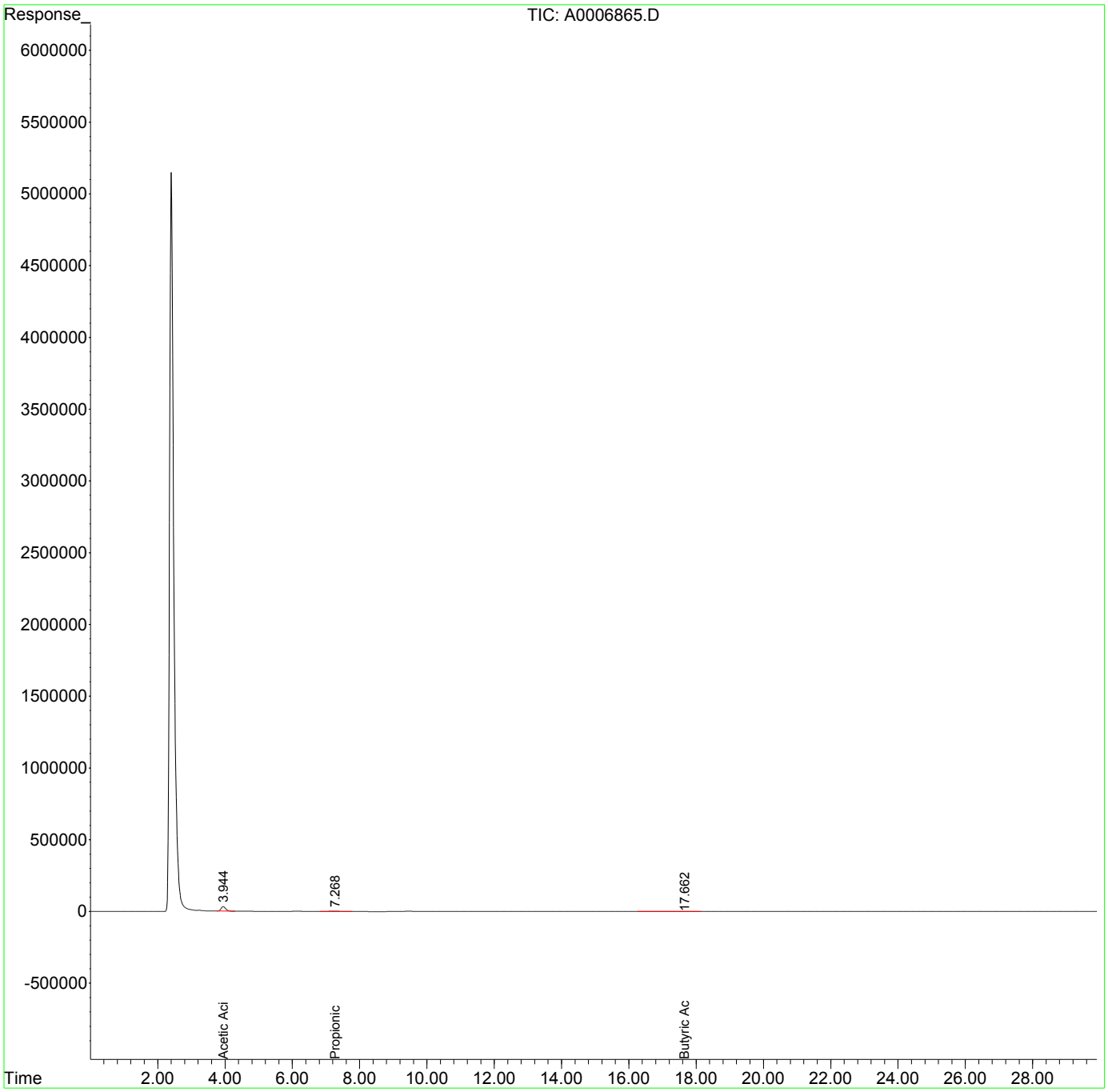
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.223	-127363	N.D.	ppm	
2) T	Pyruvic acid	3.223	-127363	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	3.943	3047504	52.174	ppm	m
5) T	Propionic Acid	7.268	572284	10.213	ppm	m
6) T	Butyric Acid	17.662	310935	3.800	ppm	m

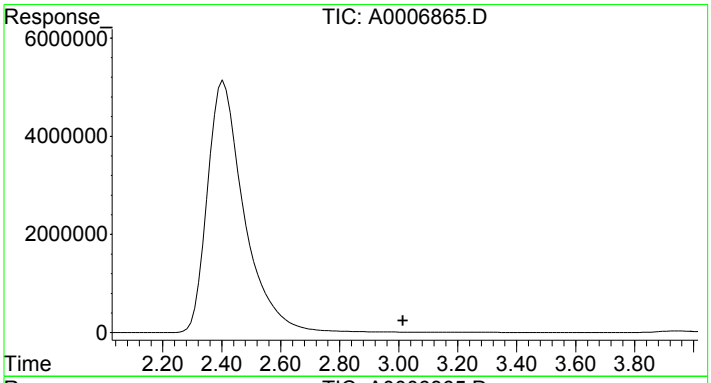
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006865.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 22:24:43
Operator : AFelser
Sample : R2404674-013
Misc :
ALS Vial : 47 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:44:00 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

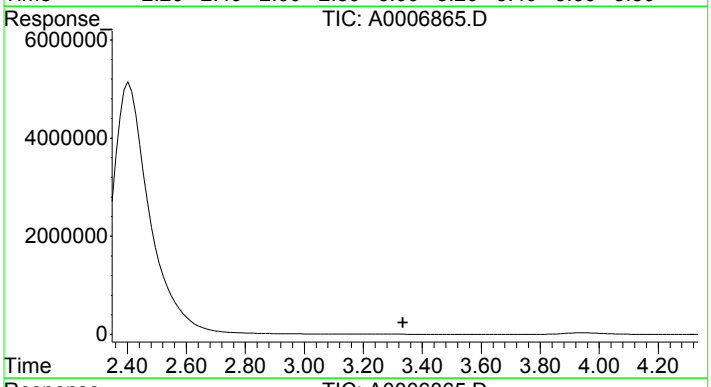
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





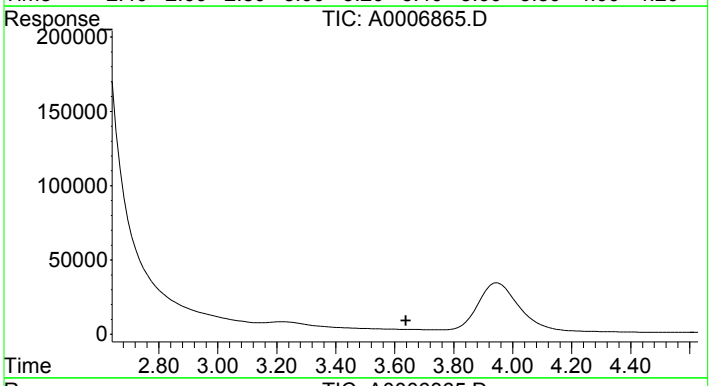
#1 Formic acid

R.T.: 3.223 min
Delta R.T.: 0.208 min
Response: -127363
Conc: N.D.



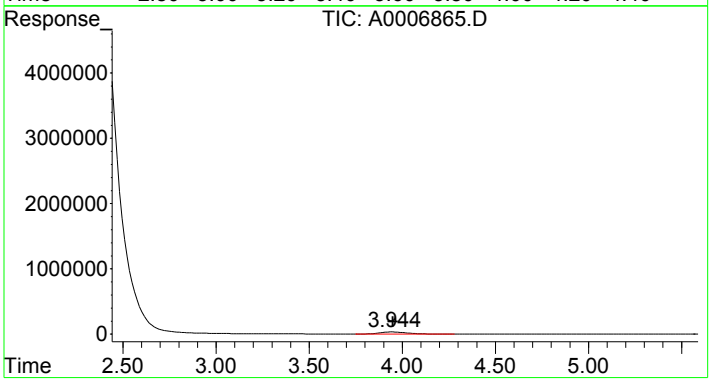
#2 Pyruvic acid

R.T.: 3.223 min
Delta R.T.: -0.112 min
Response: -127363
Conc: N.D.



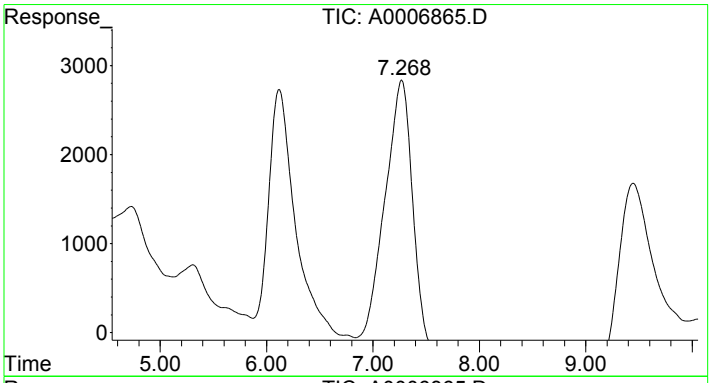
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.638 min
Response: 0
Conc: N.D.



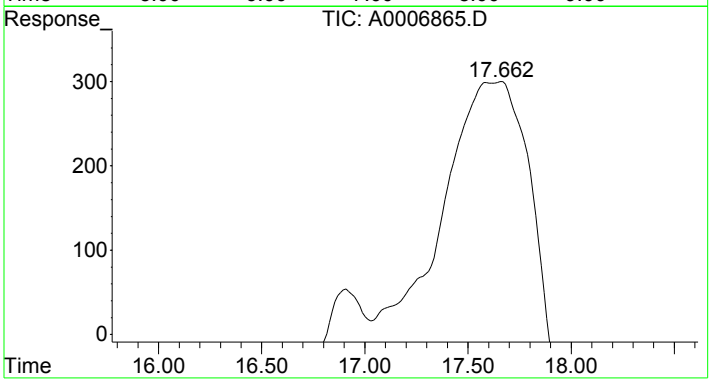
#4 Acetic Acid

R.T.: 3.943 min
Delta R.T.: -0.007 min
Response: 3047504
Conc: 52.17 ppm m



#5 Propionic Acid

R.T.: 7.268 min
Delta R.T.: 0.008 min
Response: 572284
Conc: 10.21 ppm m



#6 Butyric Acid

R.T.: 17.662 min
Delta R.T.: 0.199 min
Response: 310935
Conc: 3.80 ppm m

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006866.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 22:57:05
Operator : AFelser
Sample : R2404674-014
Misc :
ALS Vial : 48 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:44:02 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	d
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	d
4) T	Acetic Acid	0.000	0	N.D.	ppm	d
5) T	Propionic Acid	0.000	0	N.D.	ppm	
6) T	Butyric Acid	0.000	0	N.D.	ppm	

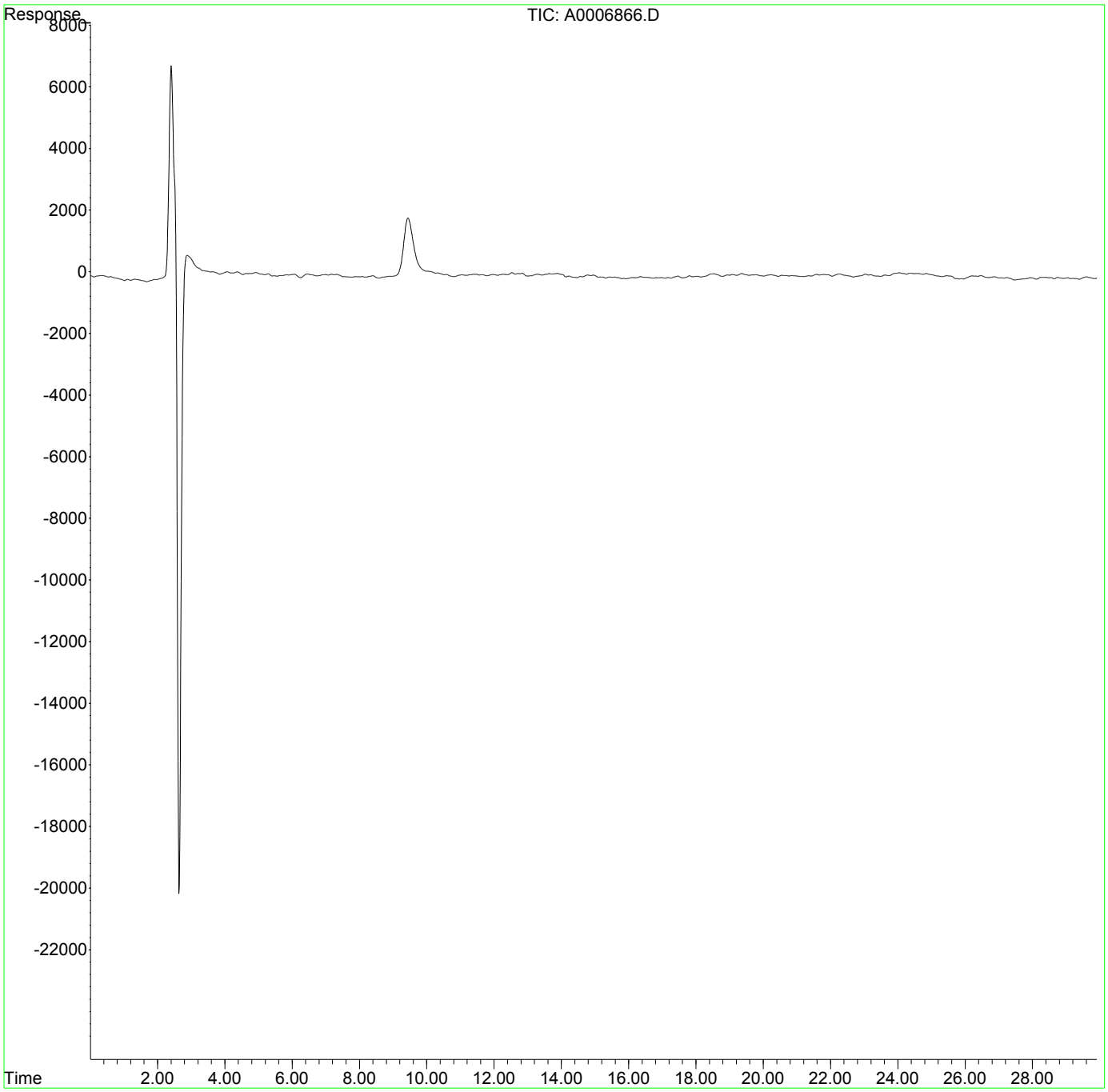
(f)=RT Delta > 1/2 Window (m)=manual int.

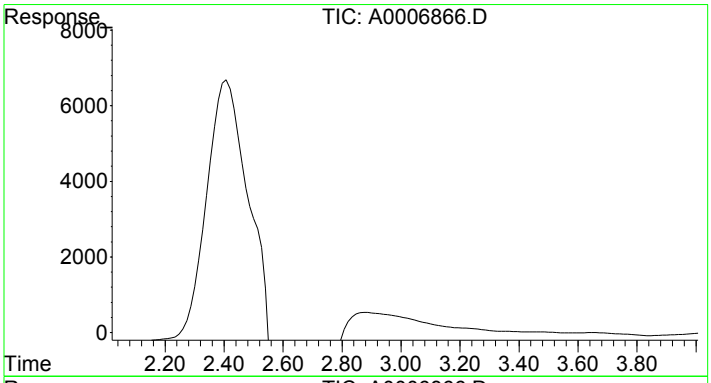
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006866.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 22:57:05
Operator : AFelser
Sample : R2404674-014
Misc :
ALS Vial : 48 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:44:02 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

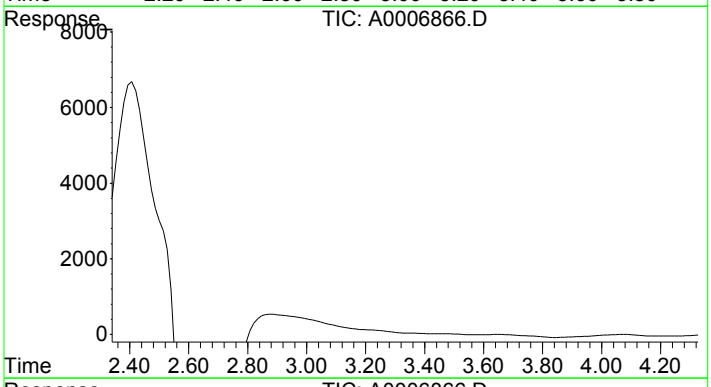
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





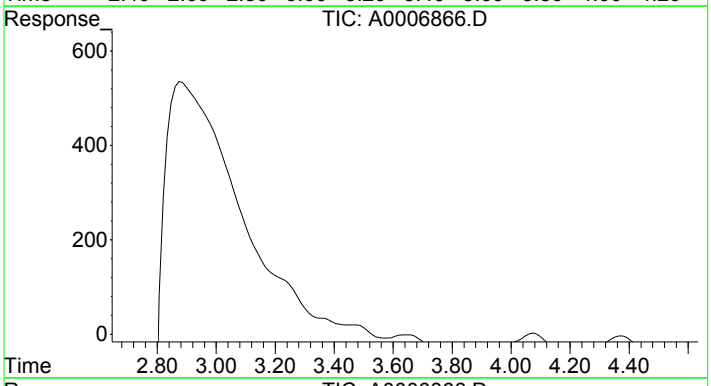
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.015 min
Response: 0
Conc: N.D.



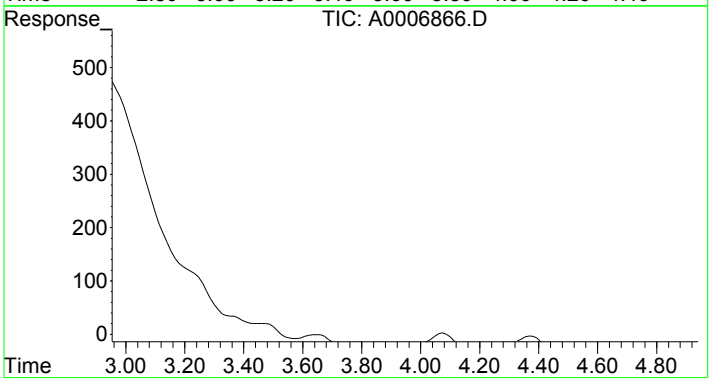
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.335 min
Response: 0
Conc: N.D.



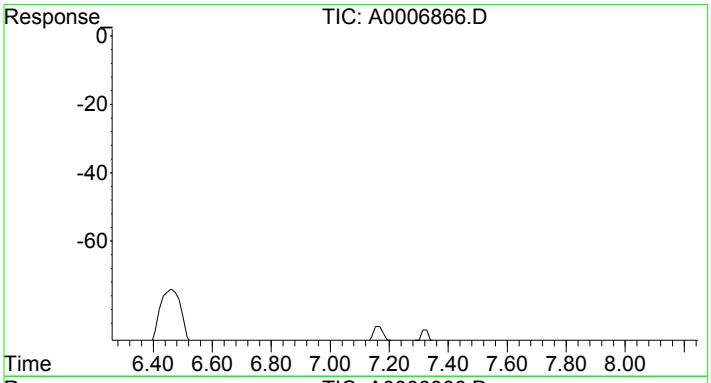
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.638 min
Response: 0
Conc: N.D.



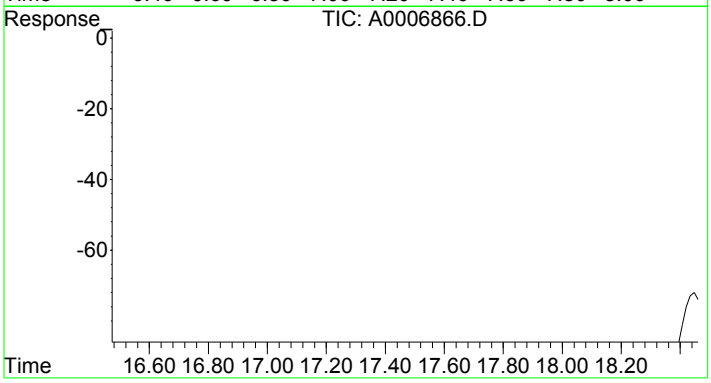
#4 Acetic Acid

R.T.: 0.000 min
Exp R.T. : 3.950 min
Response: 0
Conc: N.D.



#5 Propionic Acid

R.T.: 0.000 min
Exp R.T. : 7.260 min
Response: 0
Conc: N.D.



#6 Butyric Acid

R.T.: 0.000 min
Exp R.T. : 17.462 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006867.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 23:29:25
Operator : AFelser
Sample : R2404674-016
Misc :
ALS Vial : 49 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:44:04 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	d
2) T	Pyruvic acid	0.000	0	N.D.	ppm	d
3) T	Lactic Acid	0.000	0	N.D.	ppm	d
4) T	Acetic Acid	0.000	0	N.D.	ppm	d
5) T	Propionic Acid	0.000	0	N.D.	ppm	
6) T	Butyric Acid	0.000	0	N.D.	ppm	

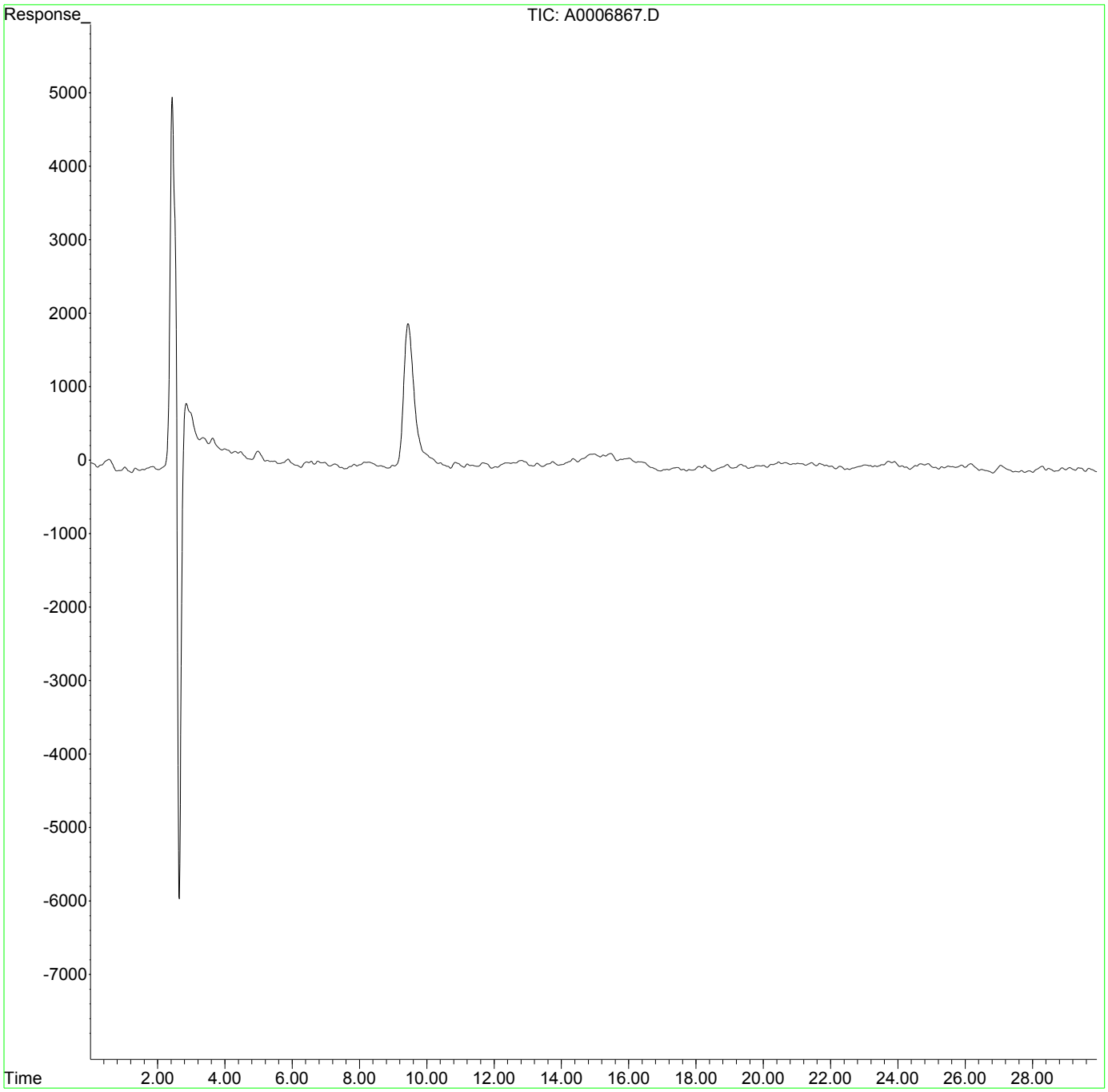
(f)=RT Delta > 1/2 Window (m)=manual int.

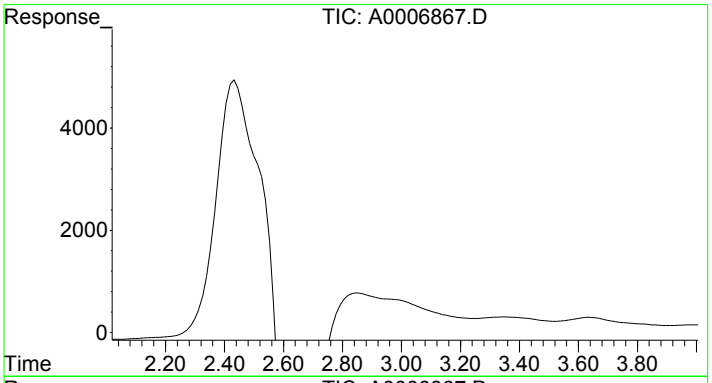
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006867.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 23:29:25
Operator : AFelser
Sample : R2404674-016
Misc :
ALS Vial : 49 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:44:04 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

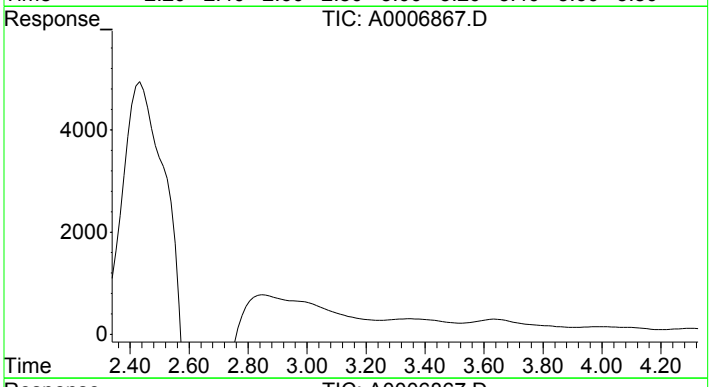
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





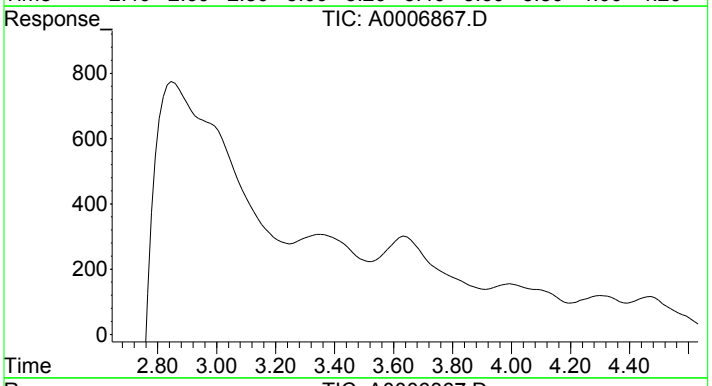
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.015 min
Response: 0
Conc: N.D.



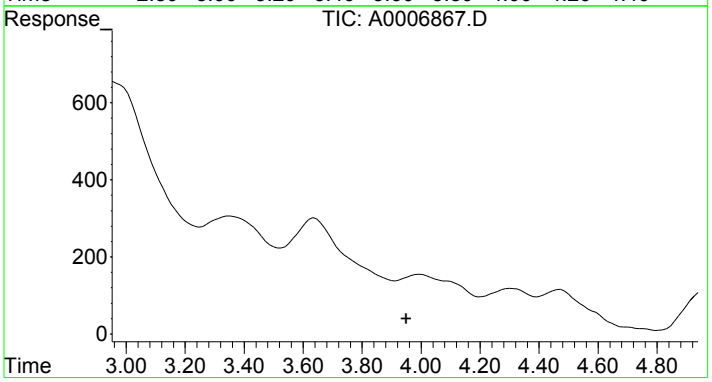
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.335 min
Response: 0
Conc: N.D.



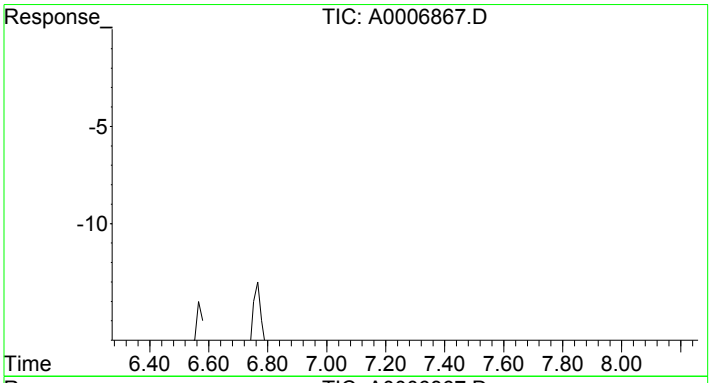
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.638 min
Response: 0
Conc: N.D.



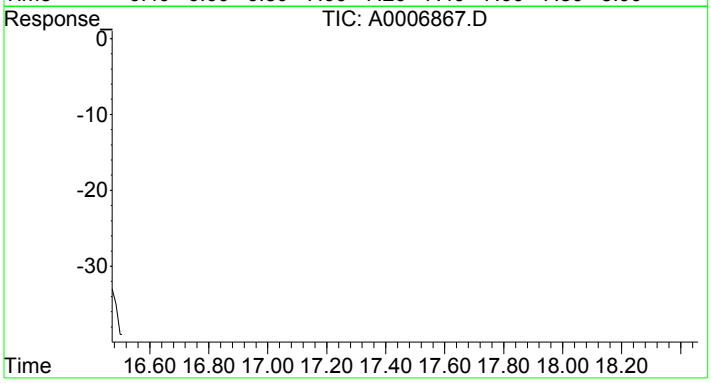
#4 Acetic Acid

R.T.: 0.000 min
Exp R.T. : 3.950 min
Response: 0
Conc: N.D.



#5 Propionic Acid

R.T.: 0.000 min
Exp R.T. : 7.260 min
Response: 0
Conc: N.D.



#6 Butyric Acid

R.T.: 0.000 min
Exp R.T. : 17.462 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006845.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 11:37:53
Operator : AFelser
Sample : MB 2
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 16:35:39 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:35:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	0.000	0	N.D.	ppm	
5) T	Propionic Acid	0.000	0	N.D.	ppm	
6) T	Butyric Acid	0.000	0	N.D.	ppm	d

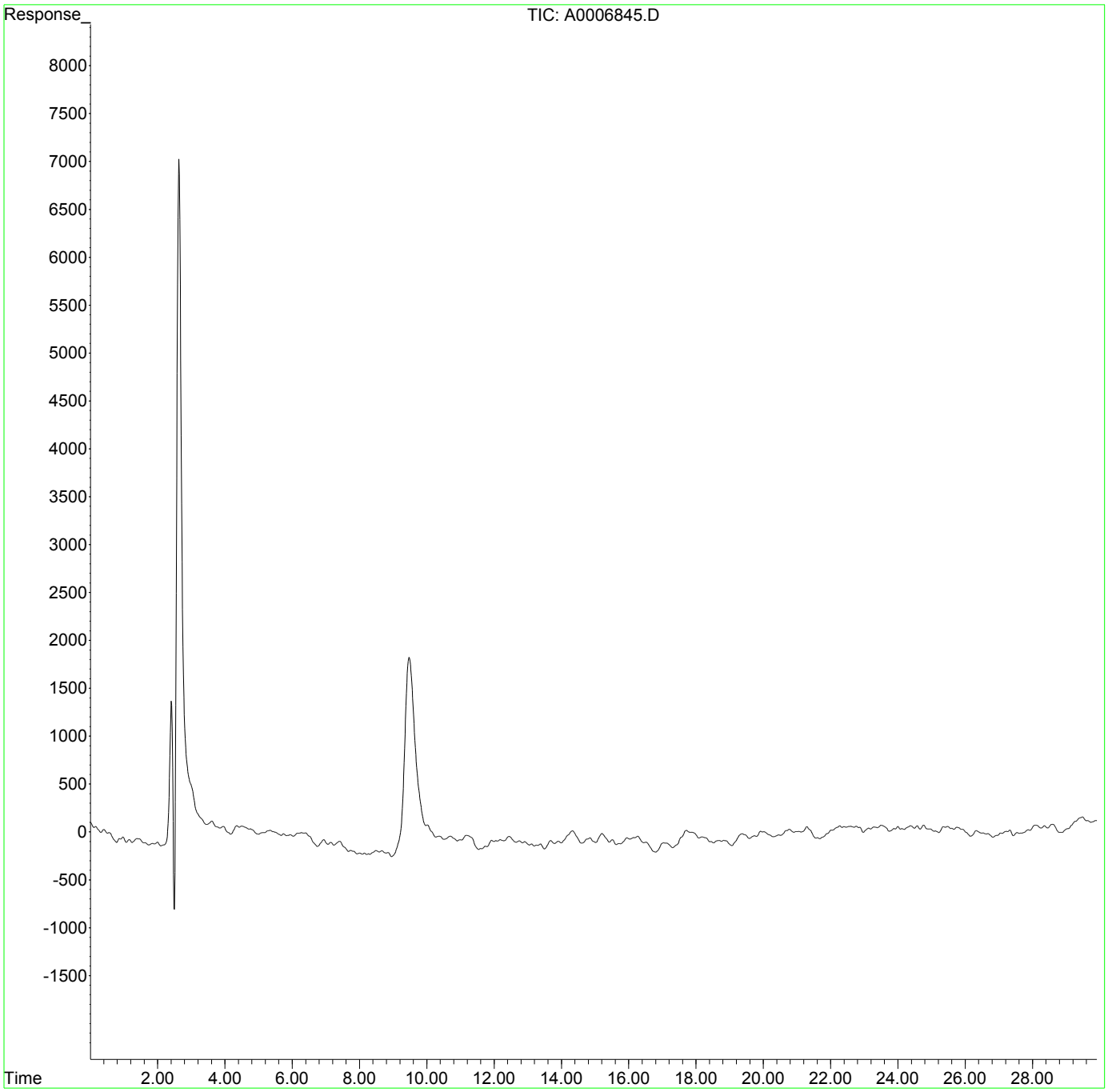
(f)=RT Delta > 1/2 Window (m)=manual int.

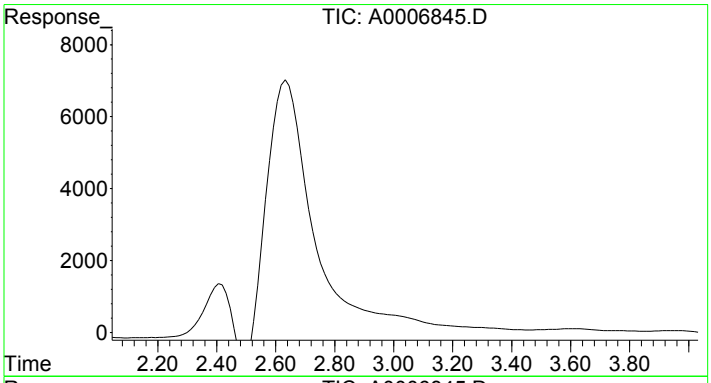
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006845.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 11:37:53
Operator : AFelser
Sample : MB 2
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 16:35:39 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:35:12 2024
Response via : Initial Calibration
Integrator: ChemStation

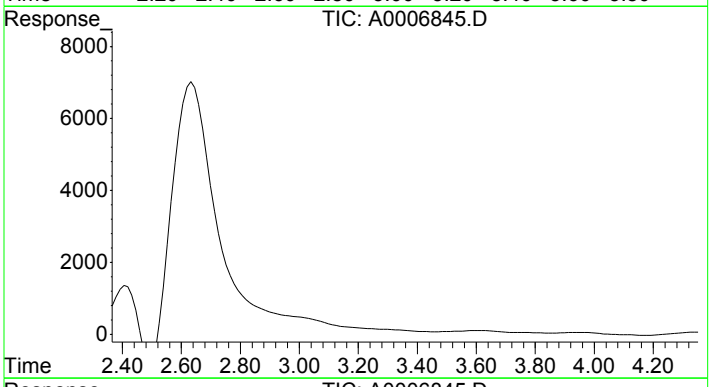
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





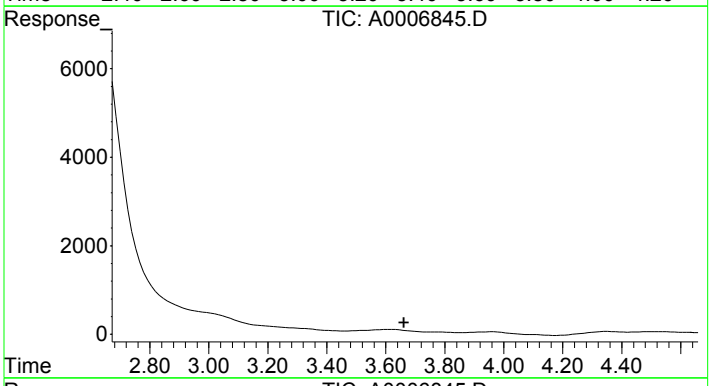
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.034 min
Response: 0
Conc: N.D.



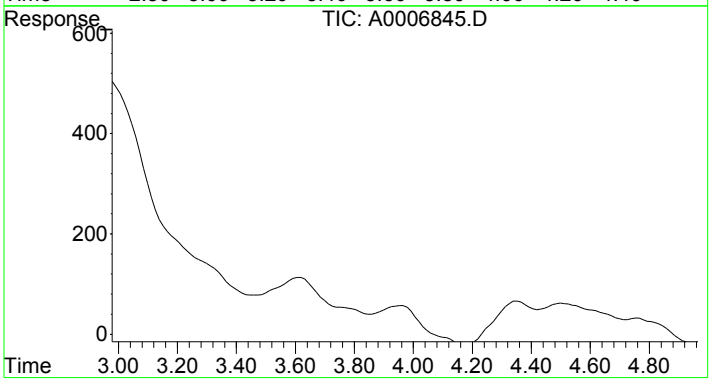
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.357 min
Response: 0
Conc: N.D.



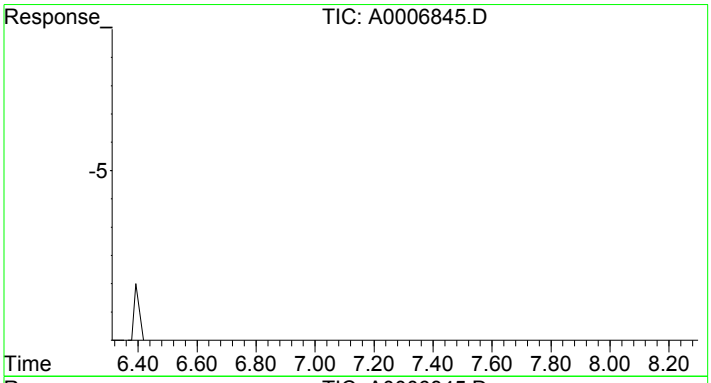
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.662 min
Response: 0
Conc: N.D.



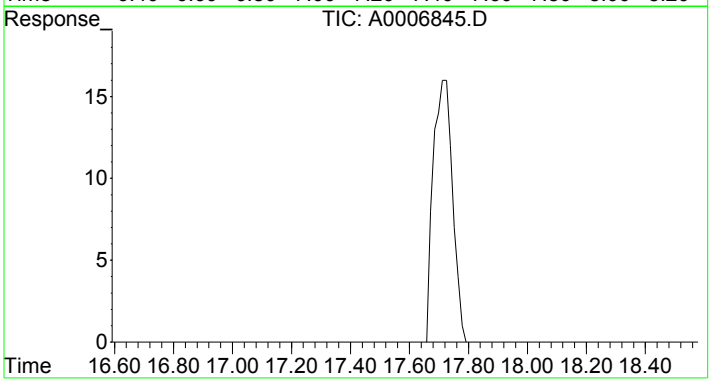
#4 Acetic Acid

R.T.: 0.000 min
Exp R.T. : 3.977 min
Response: 0
Conc: N.D.



#5 Propionic Acid

R.T.: 0.000 min
Exp R.T. : 7.311 min
Response: 0
Conc: N.D.



#6 Butyric Acid

R.T.: 0.000 min
Exp R.T. : 17.584 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007051.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 01:01:42
Operator : AFelser
Sample : MB
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:46:55 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	0.000	0	N.D.	ppm	d
5) T	Propionic Acid	0.000	0	N.D.	ppm	
6) T	Butyric Acid	0.000	0	N.D.	ppm	

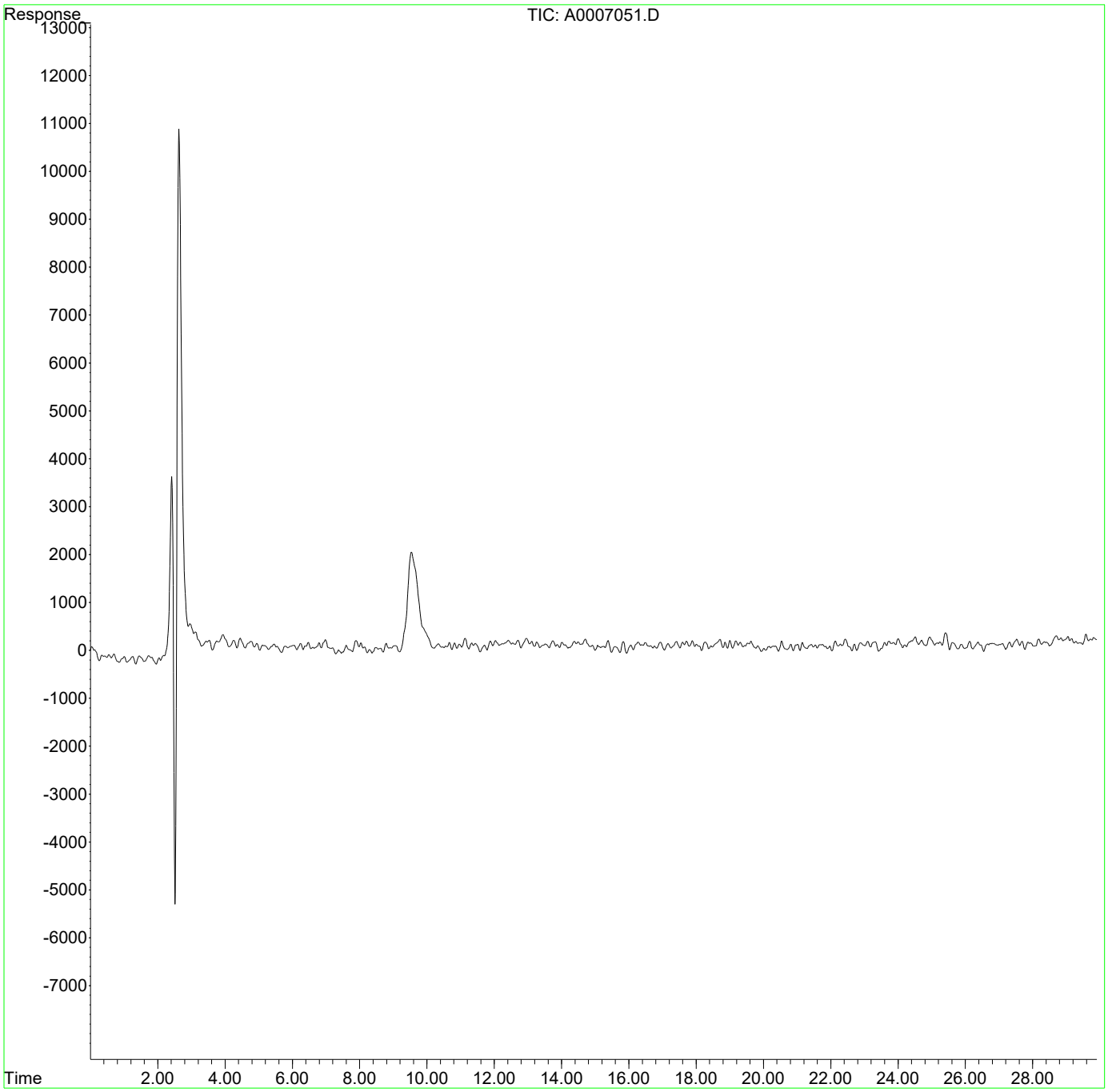
(f)=RT Delta > 1/2 Window (m)=manual int.

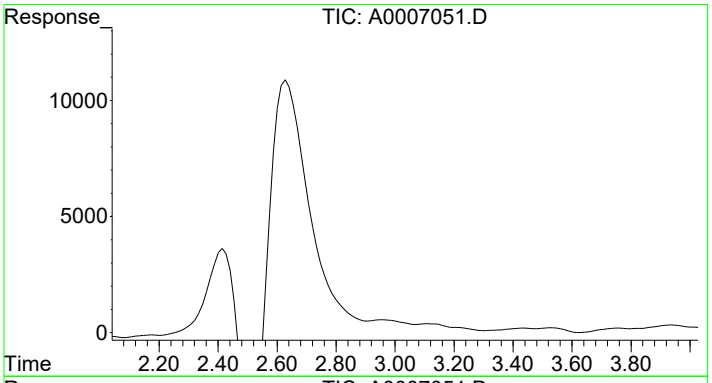
1st AF 06/19/24
2nd BA 06/19/24

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007051.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 01:01:42
Operator : AFelser
Sample : MB
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:46:55 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

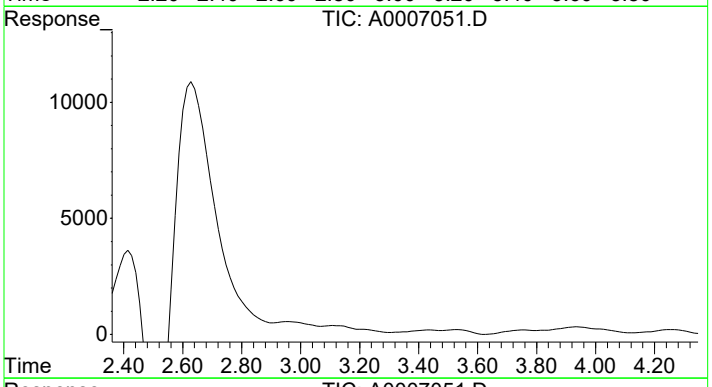
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





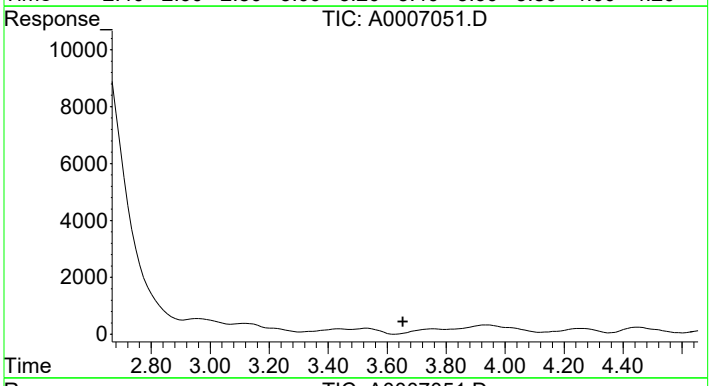
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.039 min
Response: 0
Conc: N.D.



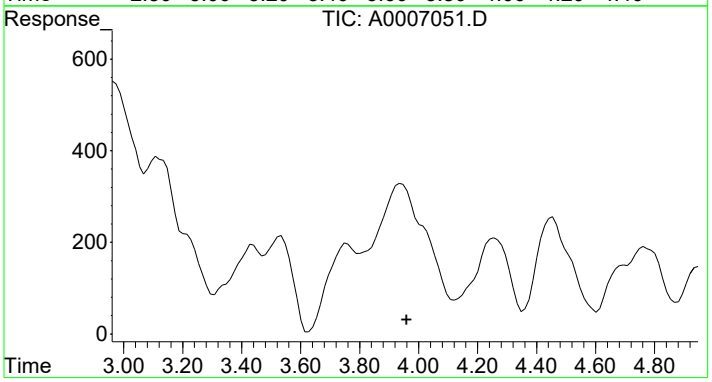
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.359 min
Response: 0
Conc: N.D.



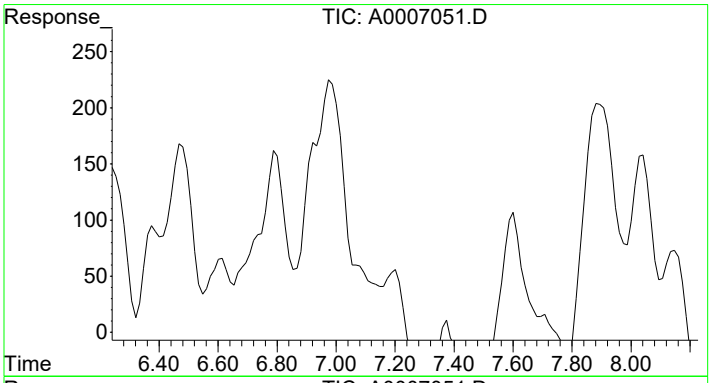
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.654 min
Response: 0
Conc: N.D.



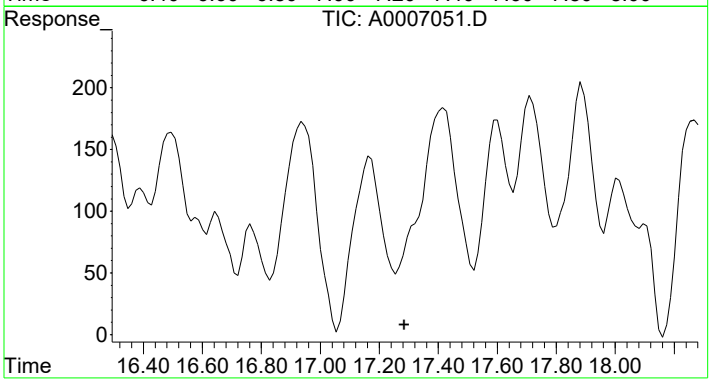
#4 Acetic Acid

R.T.: 0.000 min
Exp R.T. : 3.960 min
Response: 0
Conc: N.D.



#5 Propionic Acid

R.T.: 0.000 min
Exp R.T. : 7.239 min
Response: 0
Conc: N.D.



#6 Butyric Acid

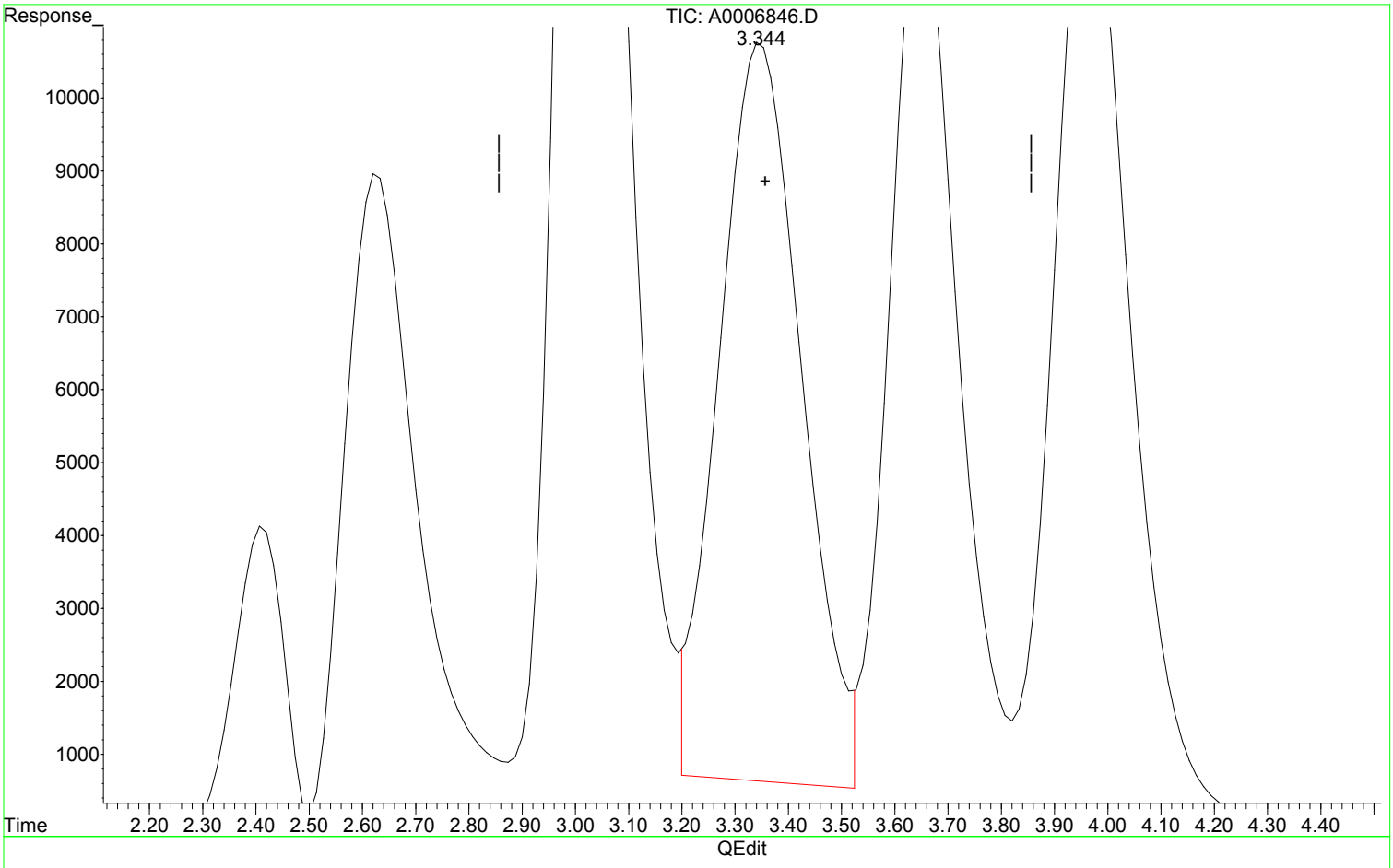
R.T.: 0.000 min
Exp R.T. : 17.286 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006846.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 12:10:12
Operator : AFelser
Sample : LCS 2
Misc :
ALS Vial : 29 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 16:35:41 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:35:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(2) Pyruvic acid (T)

3.349min 2.435 ppm

response 1094199

Manual Integration:

Before

06/10/24

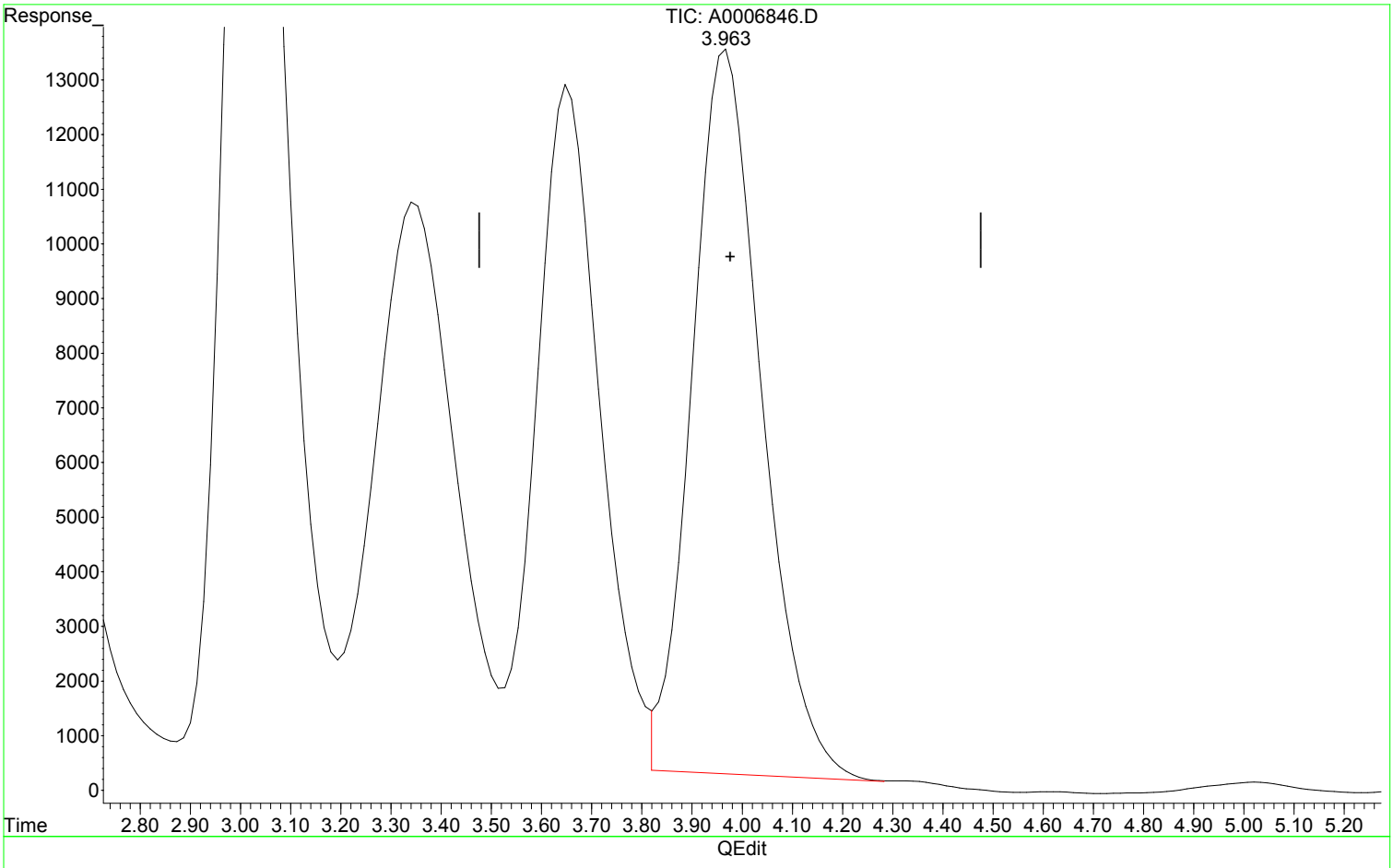
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006846.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 12:10:12
Operator : AFelser
Sample : LCS 2
Misc :
ALS Vial : 29 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 16:35:41 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:35:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.963min 21.926 ppm m

response 1280682

Manual Integration:

After

Poor integration.

06/10/24

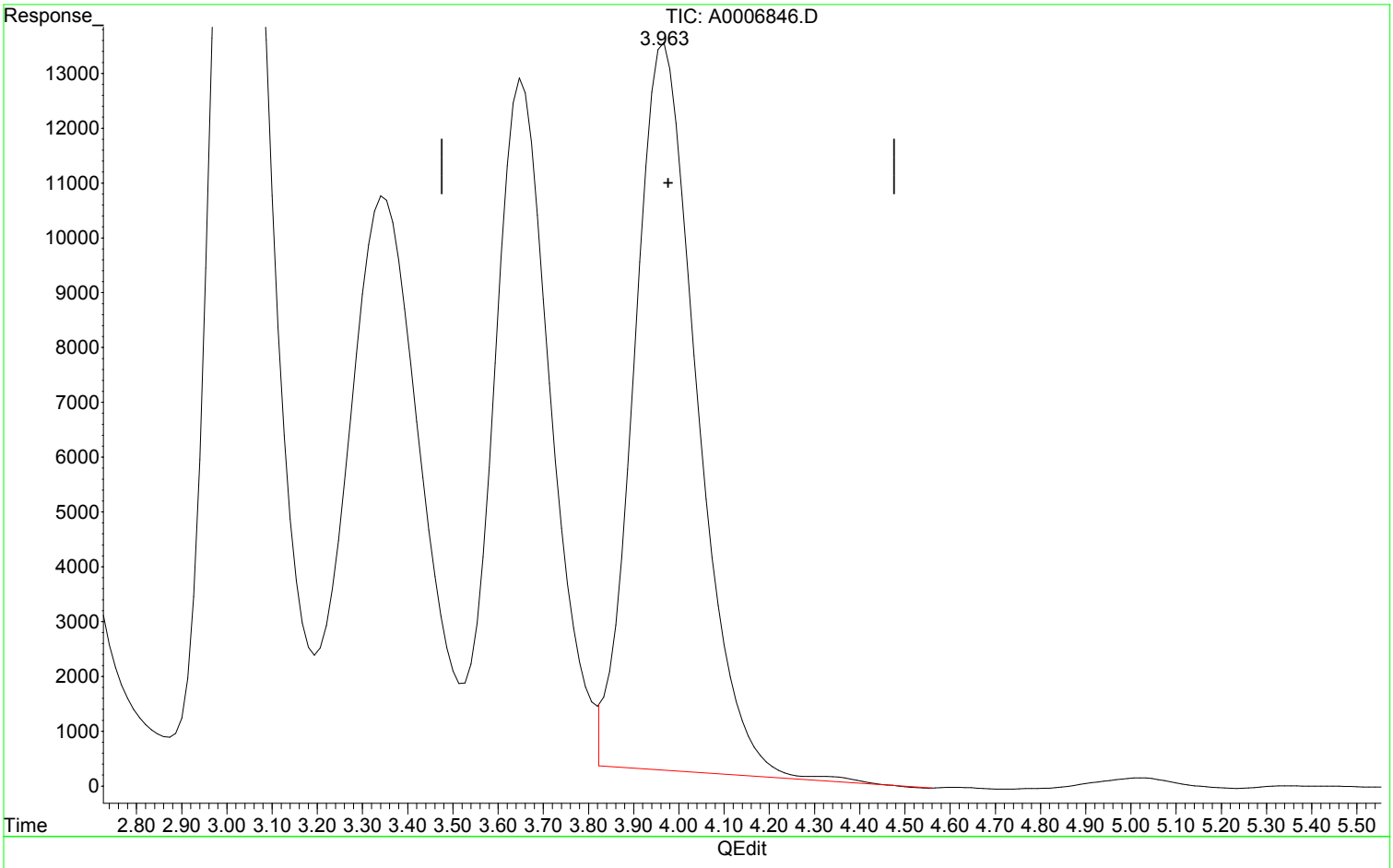
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006846.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 12:10:12
Operator : AFelser
Sample : LCS 2
Misc :
ALS Vial : 29 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 16:35:41 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:35:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.969min 22.172 ppm

response 1295044

Manual Integration:

Before

06/10/24

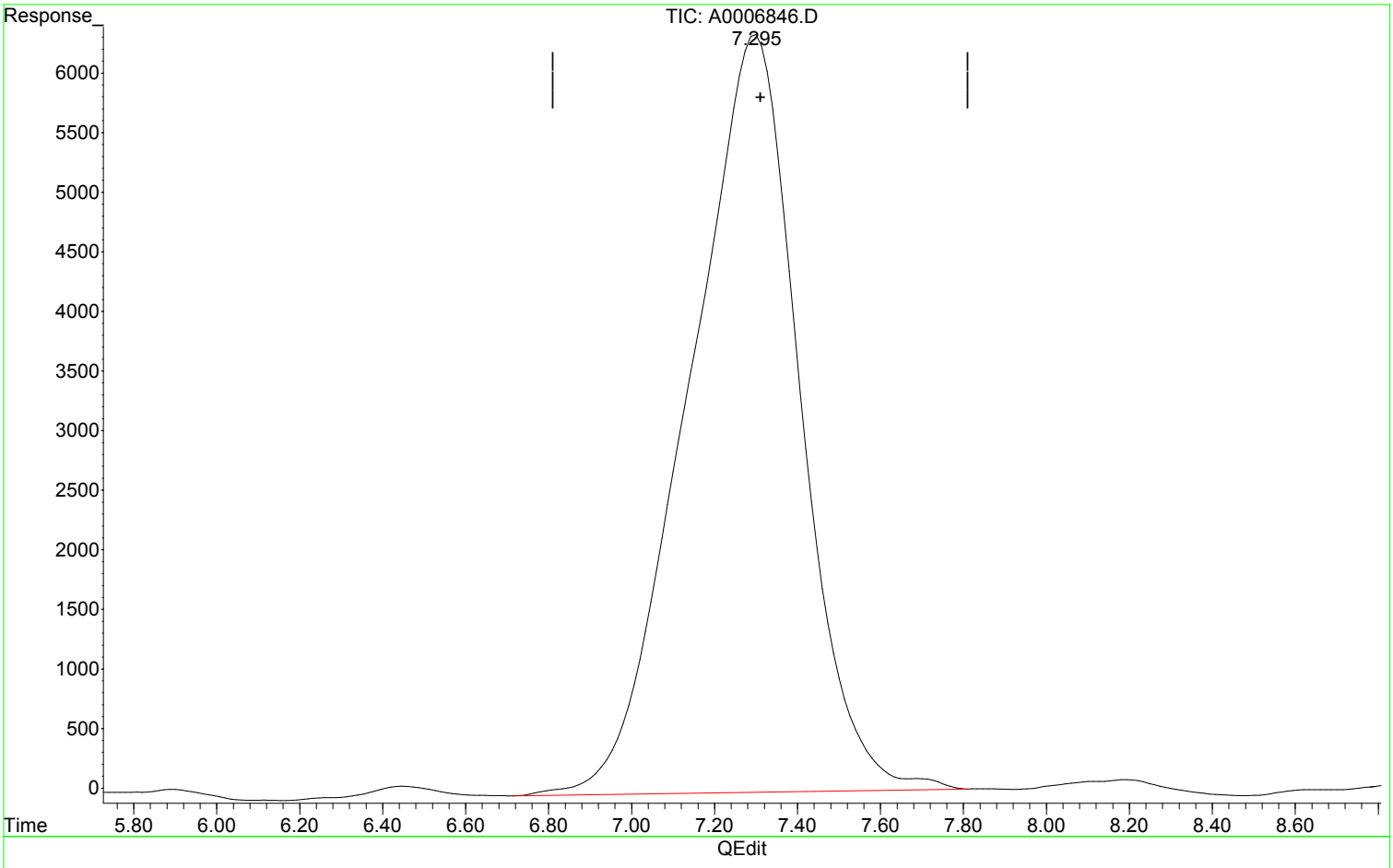
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006846.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 12:10:12
Operator : AFelser
Sample : LCS 2
Misc :
ALS Vial : 29 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 16:35:41 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:35:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.295min 20.948 ppm m

response 1173828

Manual Integration:

After

Poor integration.

06/10/24

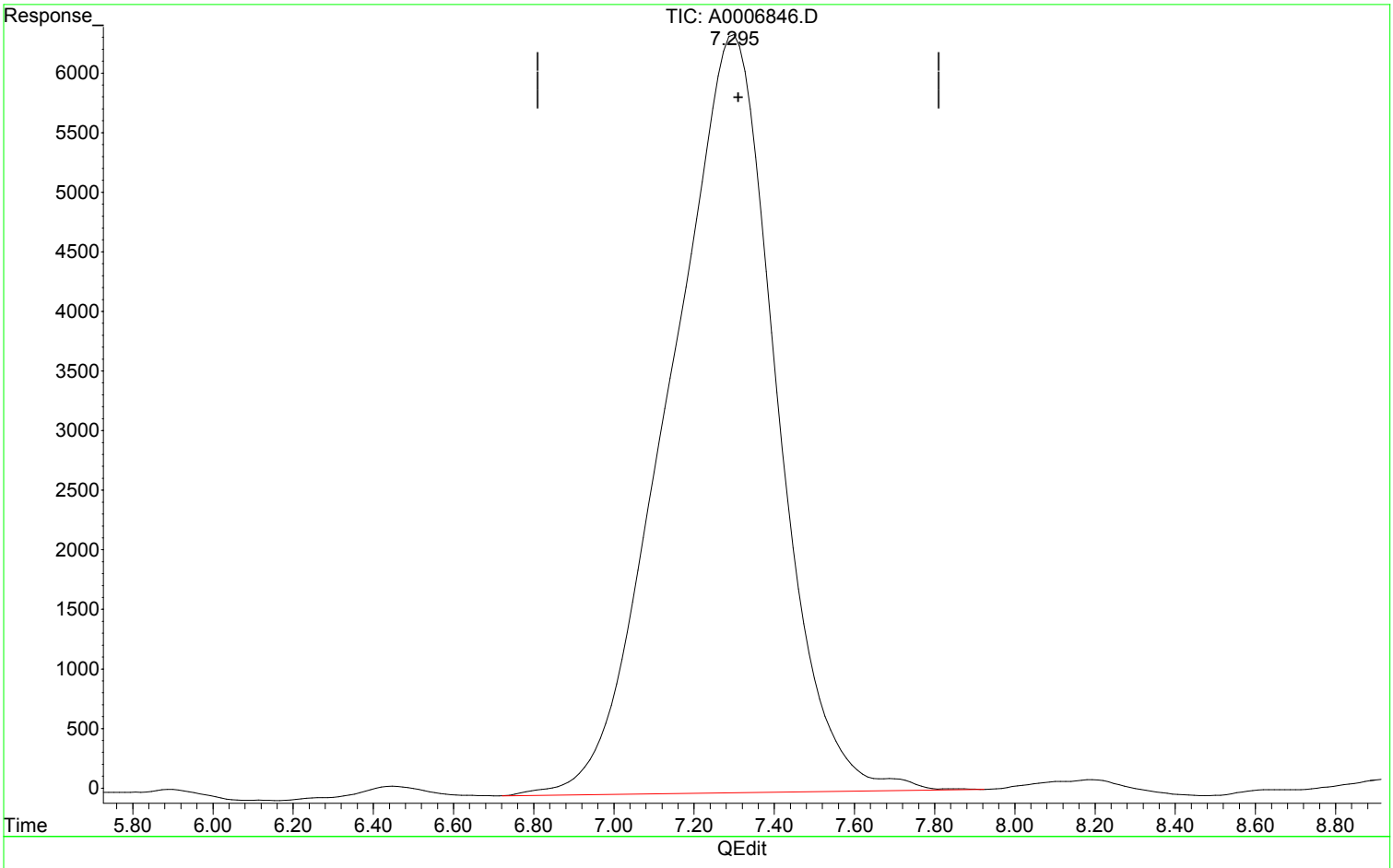
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006846.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 12:10:12
Operator : AFelser
Sample : LCS 2
Misc :
ALS Vial : 29 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 16:35:41 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:35:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.301min 20.987 ppm

response 1176016

Manual Integration:

Before

06/10/24

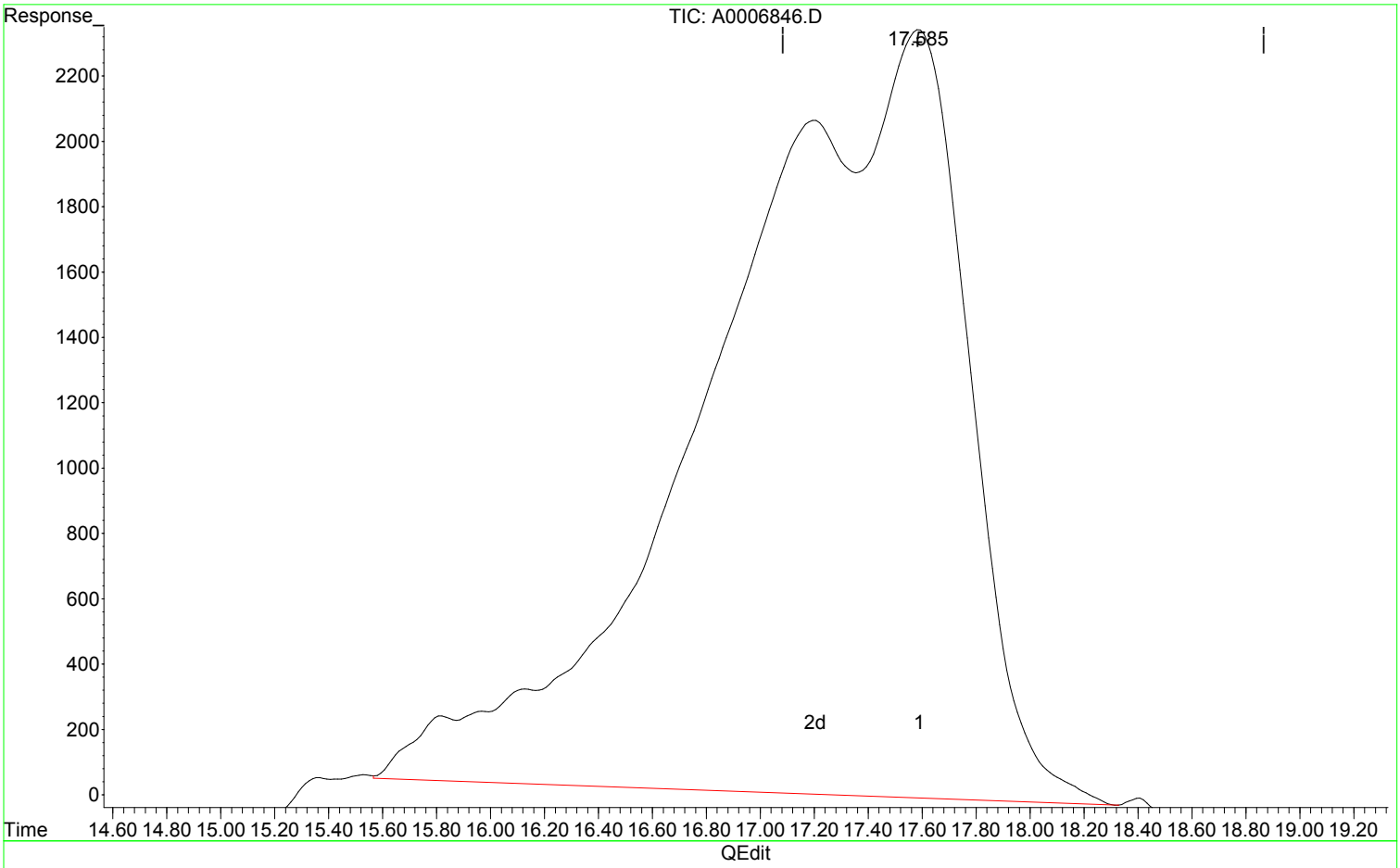
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006846.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 12:10:12
Operator : AFelser
Sample : LCS 2
Misc :
ALS Vial : 29 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 16:35:41 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:35:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.585min 18.378 ppm m

response 1503746

Manual Integration:

After

Poor integration.

06/10/24

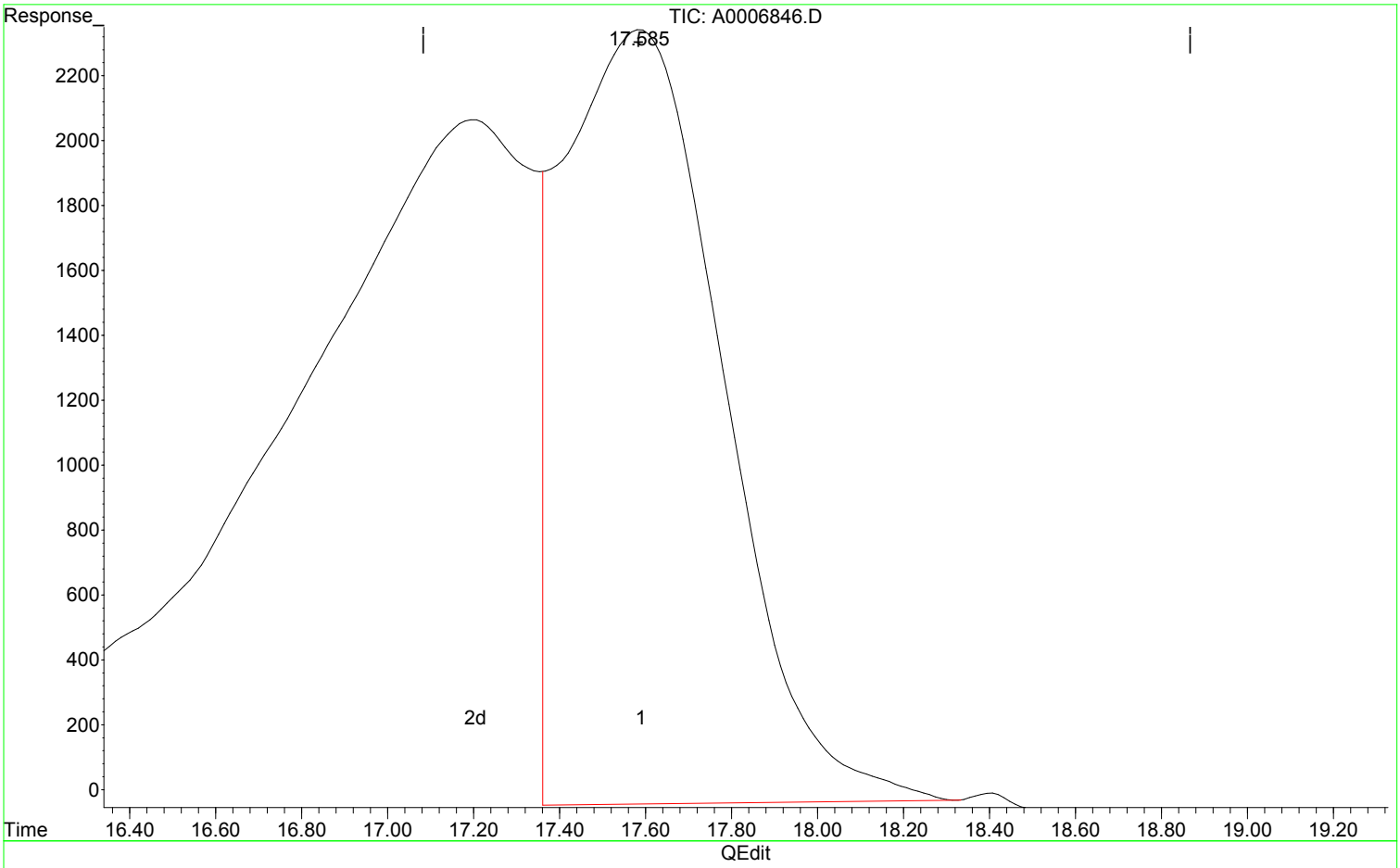
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006846.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 12:10:12
Operator : AFelser
Sample : LCS 2
Misc :
ALS Vial : 29 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 16:35:41 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:35:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.590min 7.664 ppm

response 627061

Manual Integration:

Before

06/10/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006846.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 12:10:12
Operator : AFelser
Sample : LCS 2
Misc :
ALS Vial : 29 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 16:35:41 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:35:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.027	1970017	21.773	ppm	
2) T	Pyruvic acid	3.349	1094199	2.435	ppm	
3) T	Lactic Acid	3.654	1083463	23.036	ppm	
4) T	Acetic Acid	3.963	1280682	21.926	ppm	m
5) T	Propionic Acid	7.295	1173828	20.948	ppm	m
6) T	Butyric Acid	17.585	1503746	18.378	ppm	m

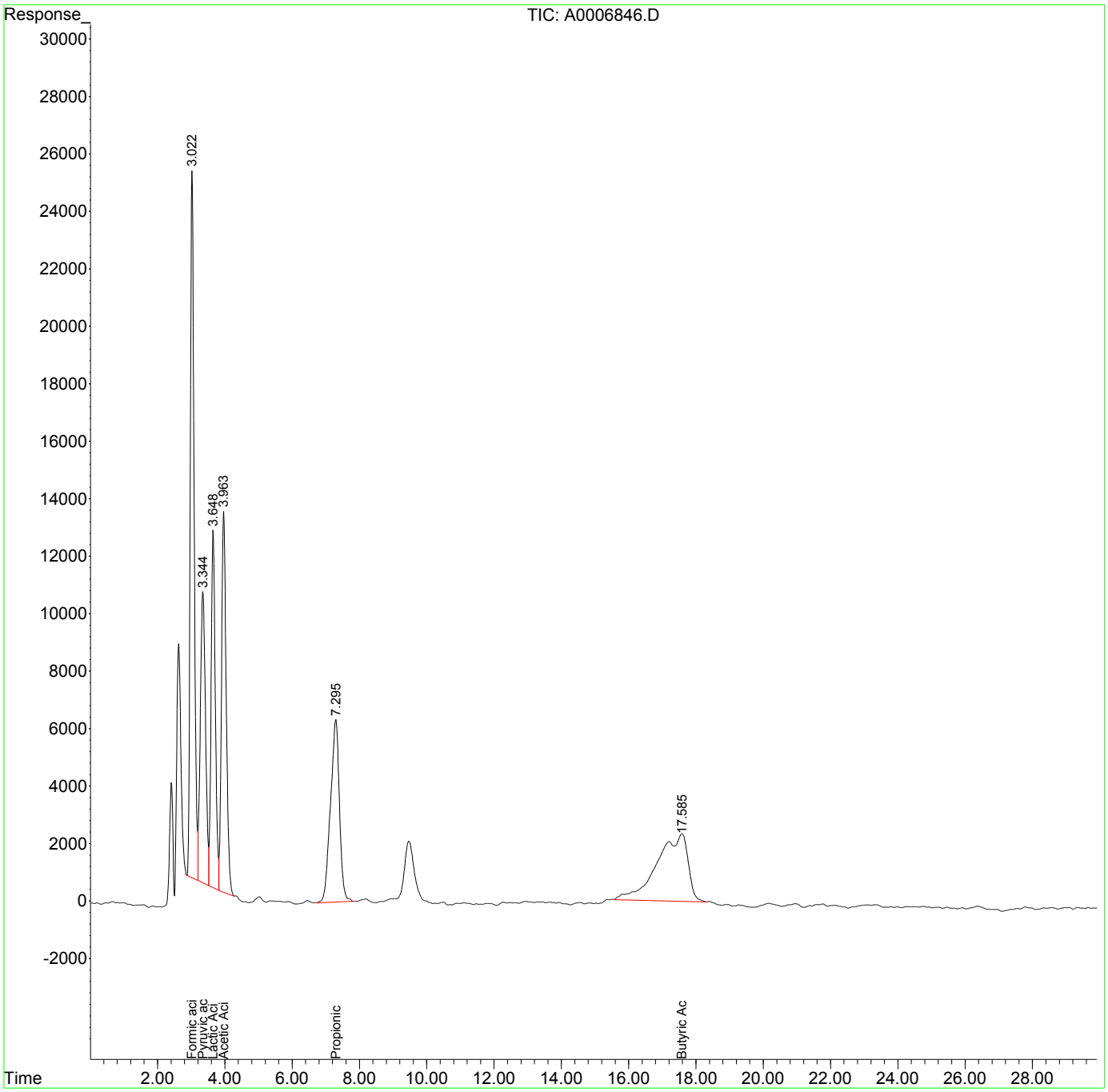
(f)=RT Delta > 1/2 Window (m)=manual int.

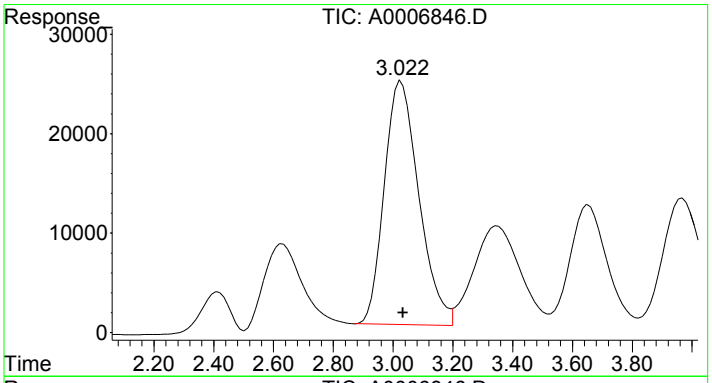
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006846.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 12:10:12
Operator : AFelser
Sample : LCS 2
Misc :
ALS Vial : 29 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 16:35:41 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:35:12 2024
Response via : Initial Calibration
Integrator: ChemStation

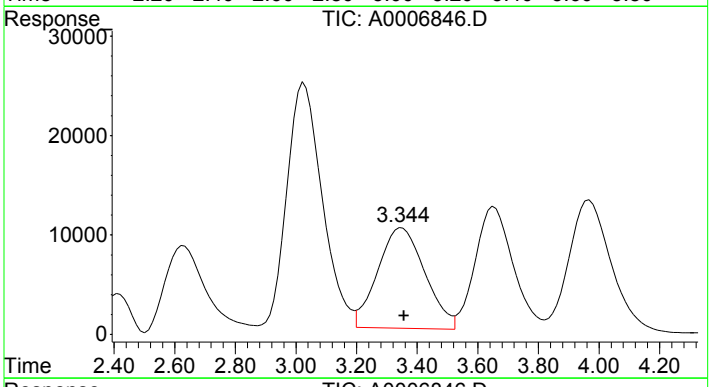
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





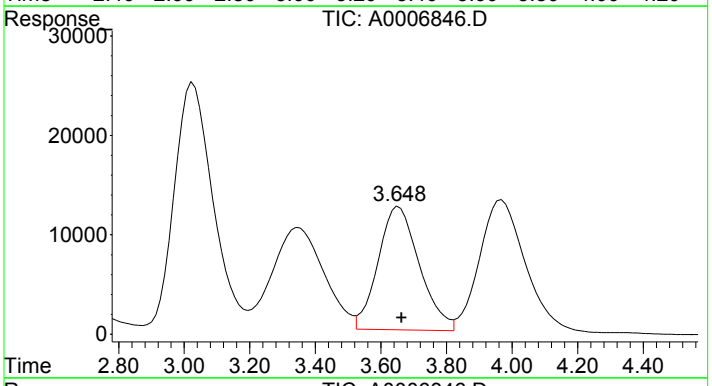
#1 Formic acid

R.T.: 3.027 min
Delta R.T.: -0.007 min
Response: 1970017
Conc: 21.77 ppm



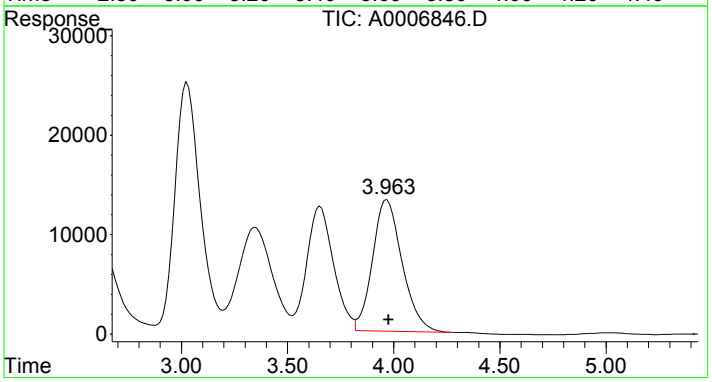
#2 Pyruvic acid

R.T.: 3.349 min
Delta R.T.: -0.008 min
Response: 1094199
Conc: 2.43 ppm



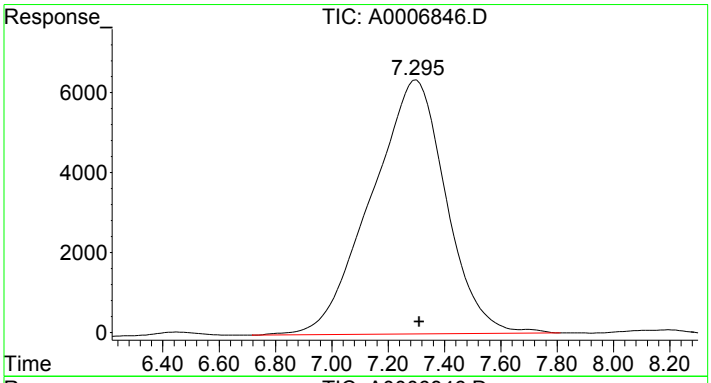
#3 Lactic Acid

R.T.: 3.654 min
Delta R.T.: -0.008 min
Response: 1083463
Conc: 23.04 ppm



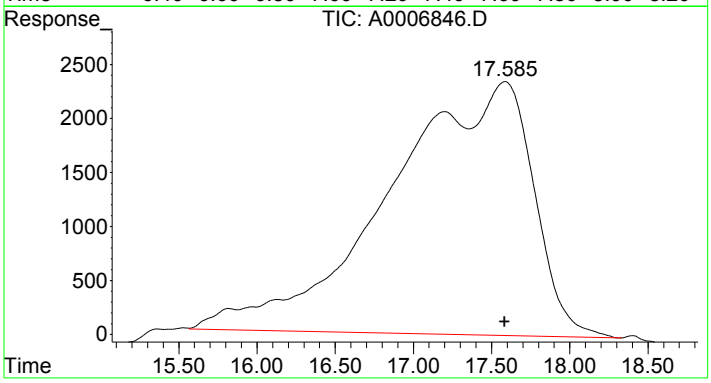
#4 Acetic Acid

R.T.: 3.963 min
Delta R.T.: -0.014 min
Response: 1280682
Conc: 21.93 ppm m



#5 Propionic Acid

R.T.: 7.295 min
Delta R.T.: -0.015 min
Response: 1173828
Conc: 20.95 ppm m



#6 Butyric Acid

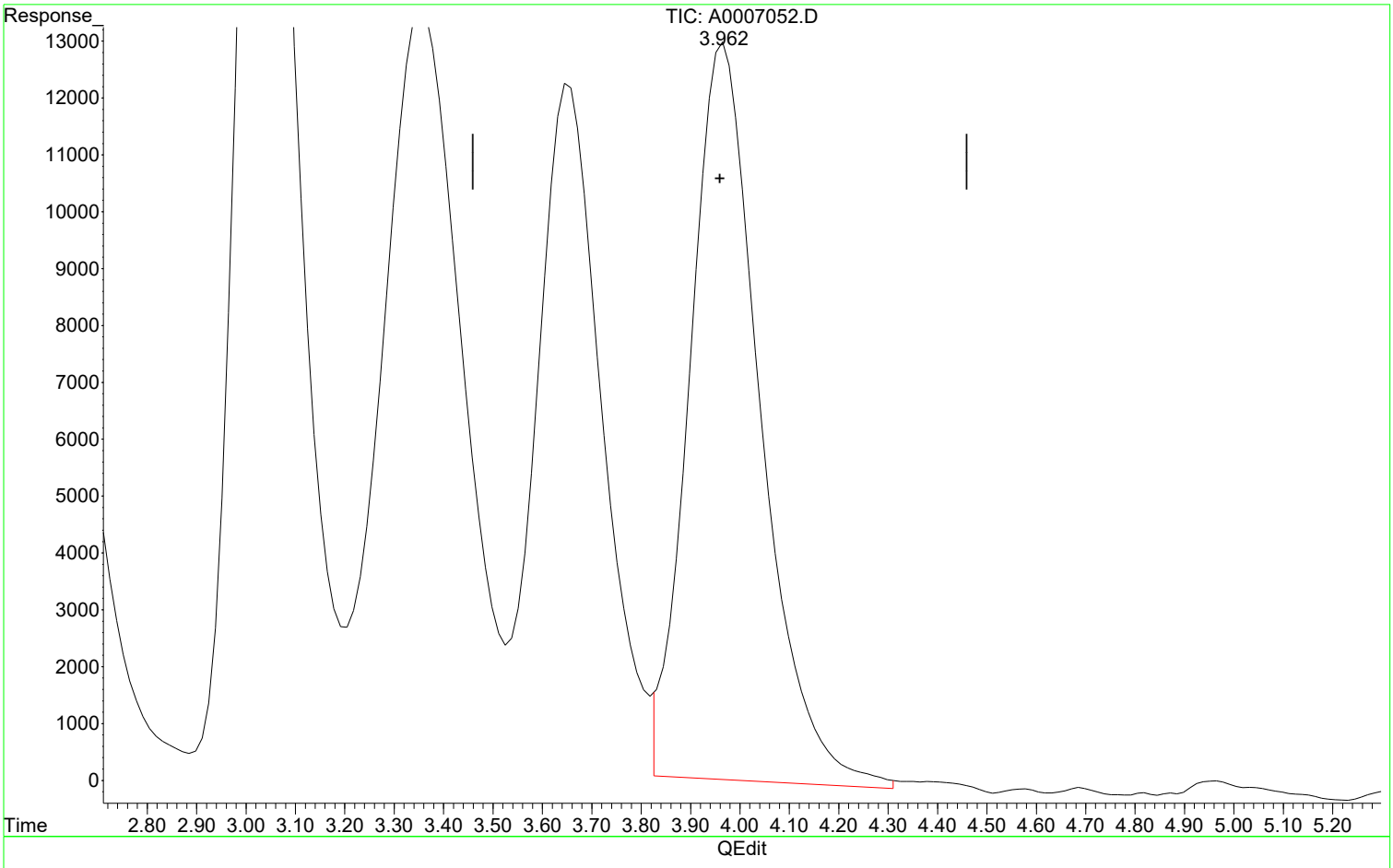
R.T.: 17.585 min
Delta R.T.: 0.001 min
Response: 1503746
Conc: 18.38 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007052.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 01:34:05
Operator : AFelser
Sample : LCS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:46:57 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.962min 22.386 ppm m

response 1292192

Manual Integration:

After

Poor integration.

06/19/24

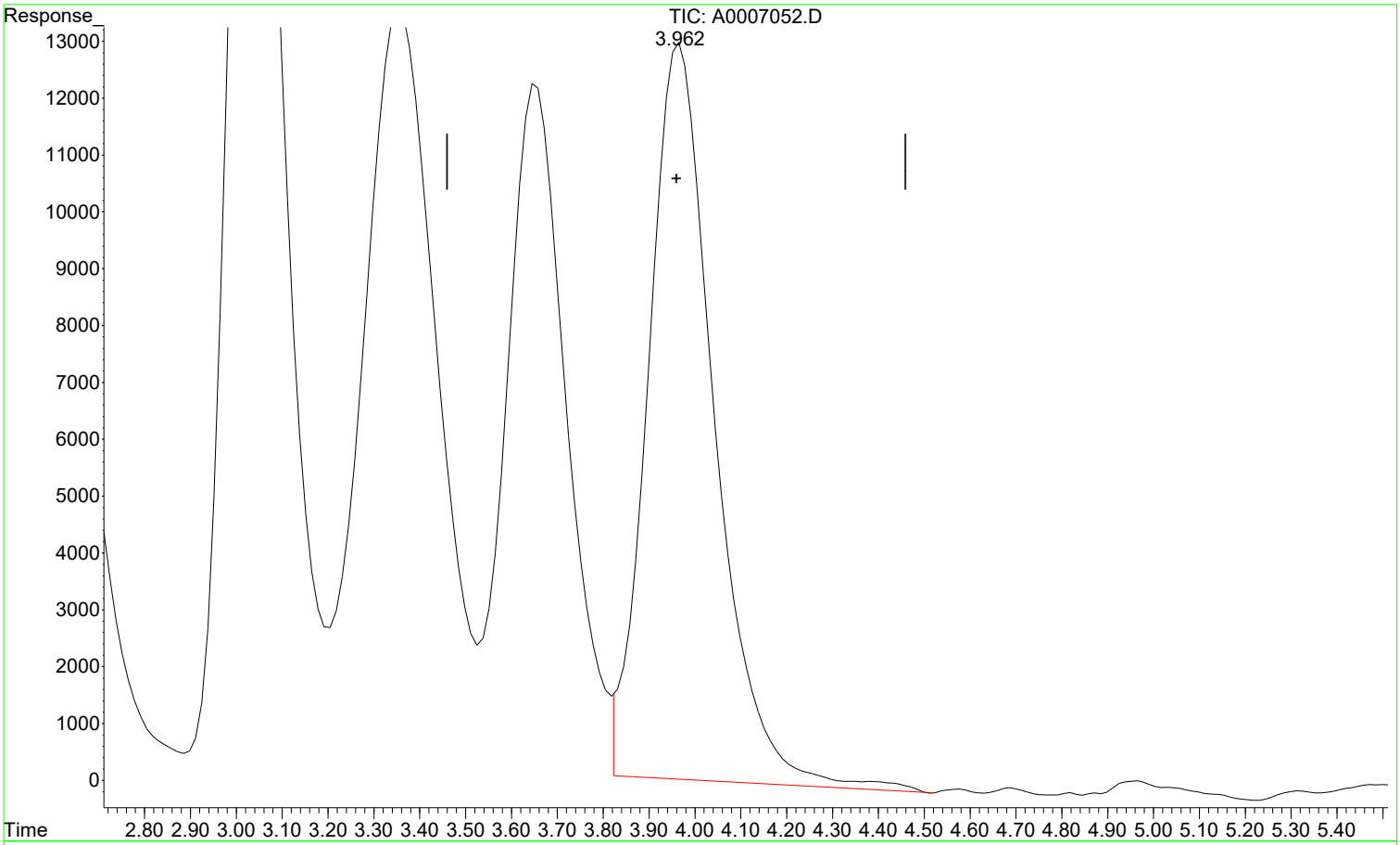
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007052.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 01:34:05
Operator : AFelser
Sample : LCS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:46:57 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.968min 22.735 ppm

response 1312285

Manual Integration:

Before

06/19/24

(+) = Expected Retention Time

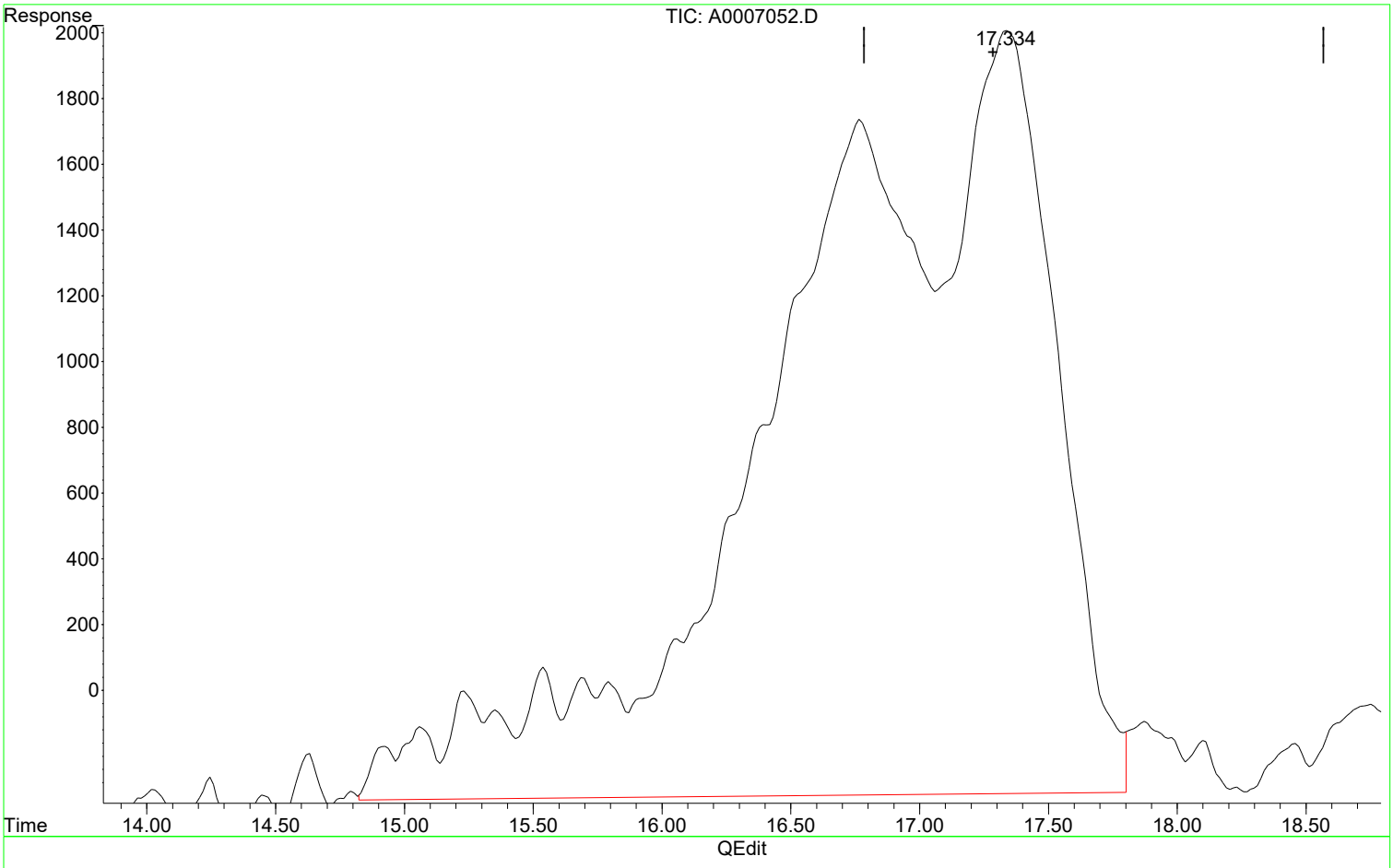
1st AF 06/19/24
2nd BA 06/19/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007052.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 01:34:05
Operator : AFelser
Sample : LCS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:46:57 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.334min 21.357 ppm m

response 1647970

Manual Integration:

After

Poor integration.

06/19/24

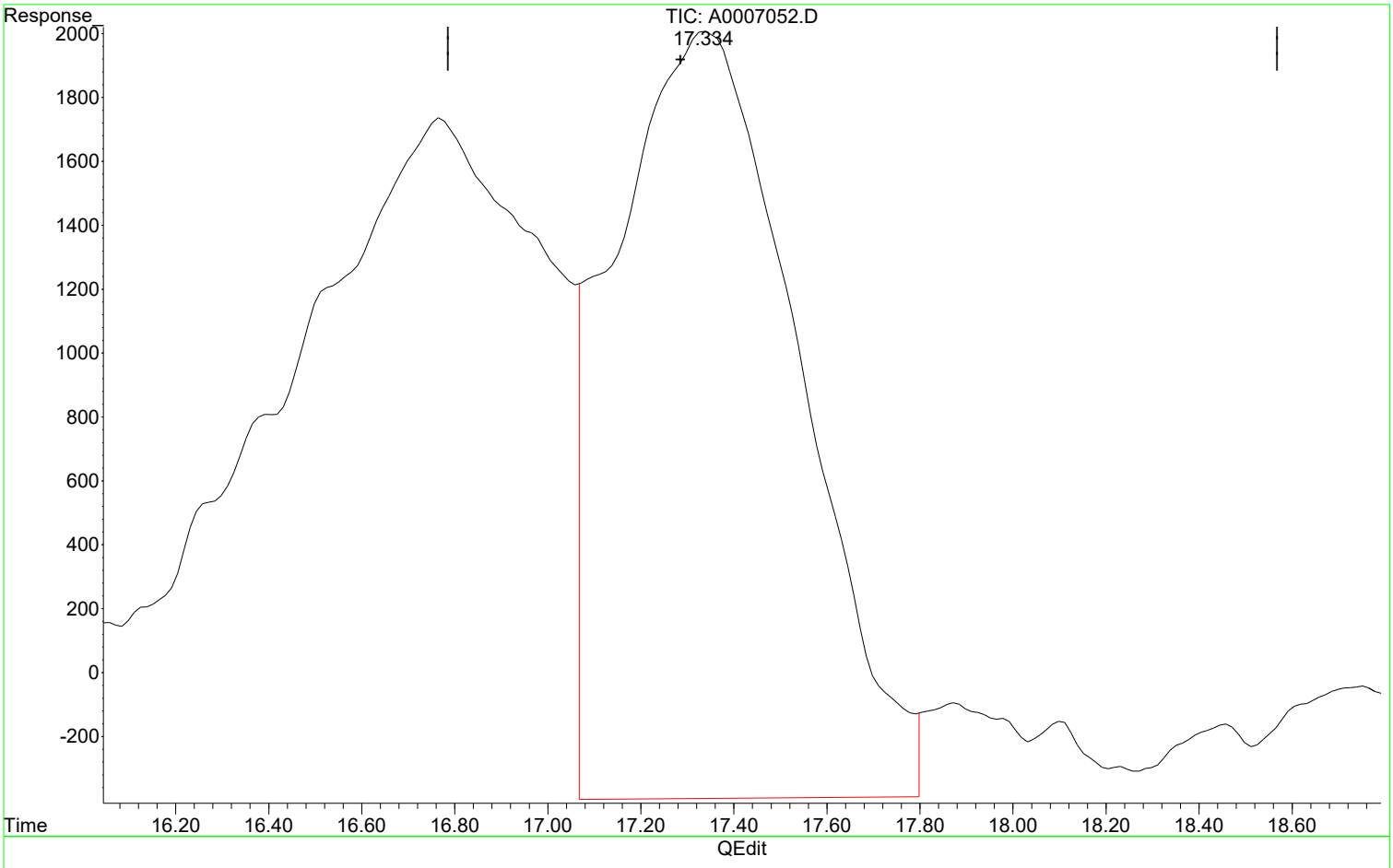
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007052.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 01:34:05
Operator : AFelser
Sample : LCS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:46:57 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.342min 8.676 ppm

response 669488

Manual Integration:

Before

06/19/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007052.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 01:34:05
Operator : AFelser
Sample : LCS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:46:57 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

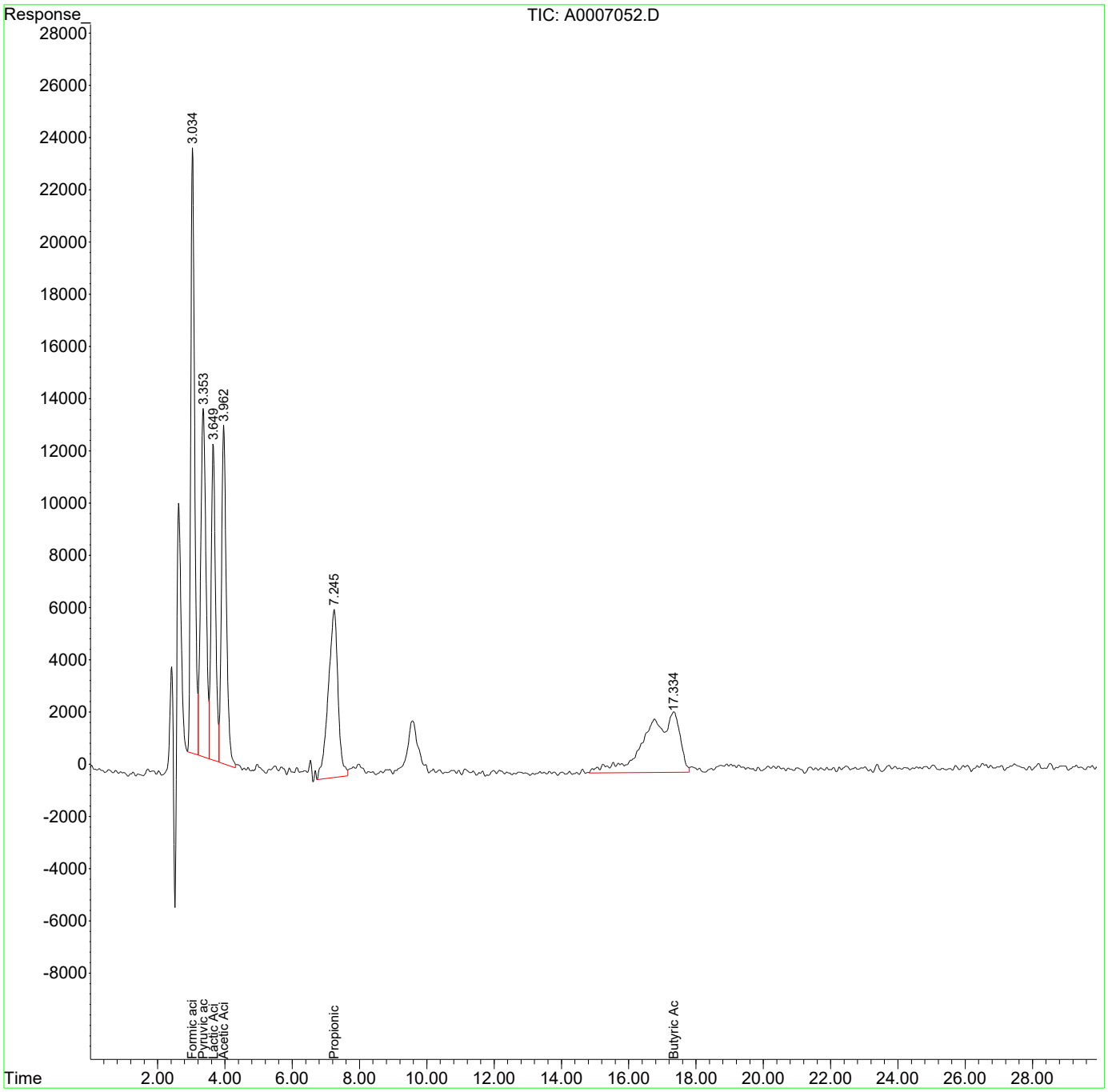
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.040	1872307	21.266	ppm	
2) T	Pyruvic acid	3.359	1471359	2.222	ppm	
3) T	Lactic Acid	3.655	1101663	23.028	ppm	
4) T	Acetic Acid	3.962	1292192	22.386	ppm	m
5) T	Propionic Acid	7.251	1286185	21.921	ppm	
6) T	Butyric Acid	17.334	1647970	21.357	ppm	m

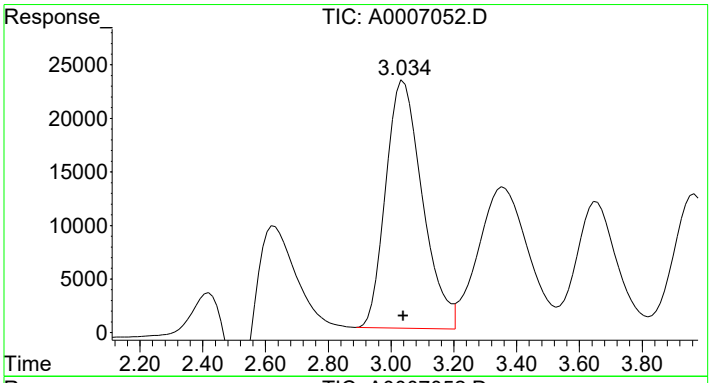
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007052.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 01:34:05
Operator : AFelser
Sample : LCS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:46:57 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

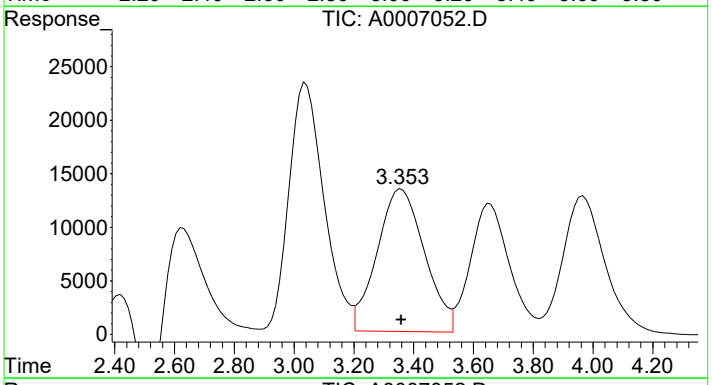
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





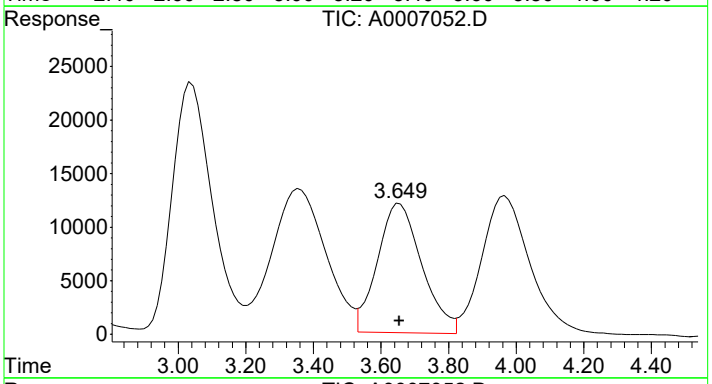
#1 Formic acid

R.T.: 3.040 min
Delta R.T.: 0.000 min
Response: 1872307
Conc: 21.27 ppm



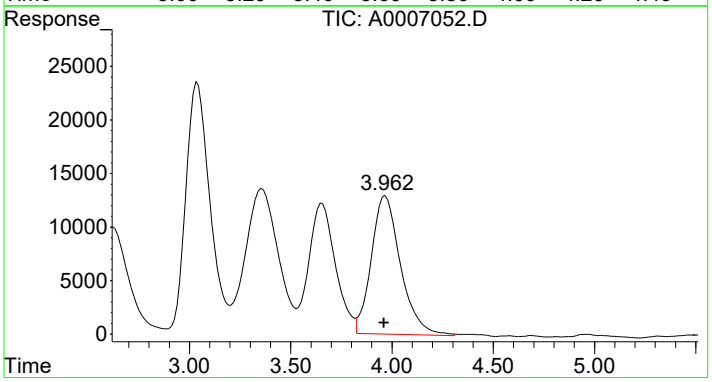
#2 Pyruvic acid

R.T.: 3.359 min
Delta R.T.: 0.000 min
Response: 1471359
Conc: 2.22 ppm



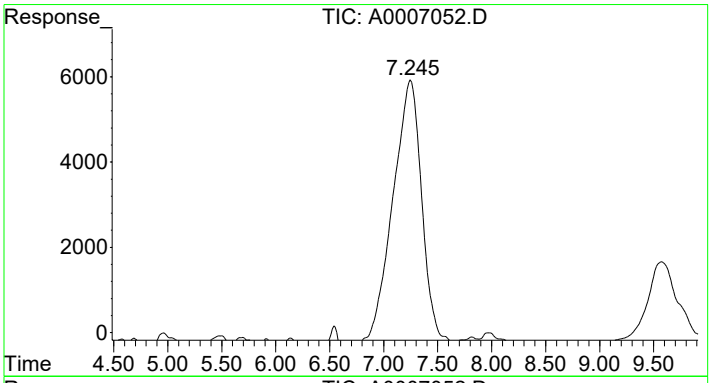
#3 Lactic Acid

R.T.: 3.655 min
Delta R.T.: 0.001 min
Response: 1101663
Conc: 23.03 ppm



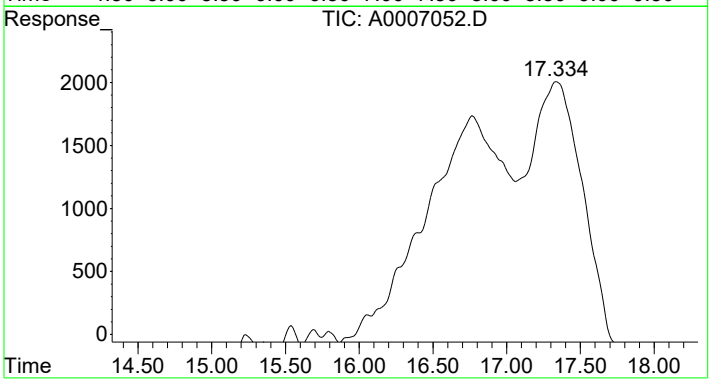
#4 Acetic Acid

R.T.: 3.962 min
Delta R.T.: 0.002 min
Response: 1292192
Conc: 22.39 ppm m



#5 Propionic Acid

R.T.: 7.251 min
Delta R.T.: 0.012 min
Response: 1286185
Conc: 21.92 ppm



#6 Butyric Acid

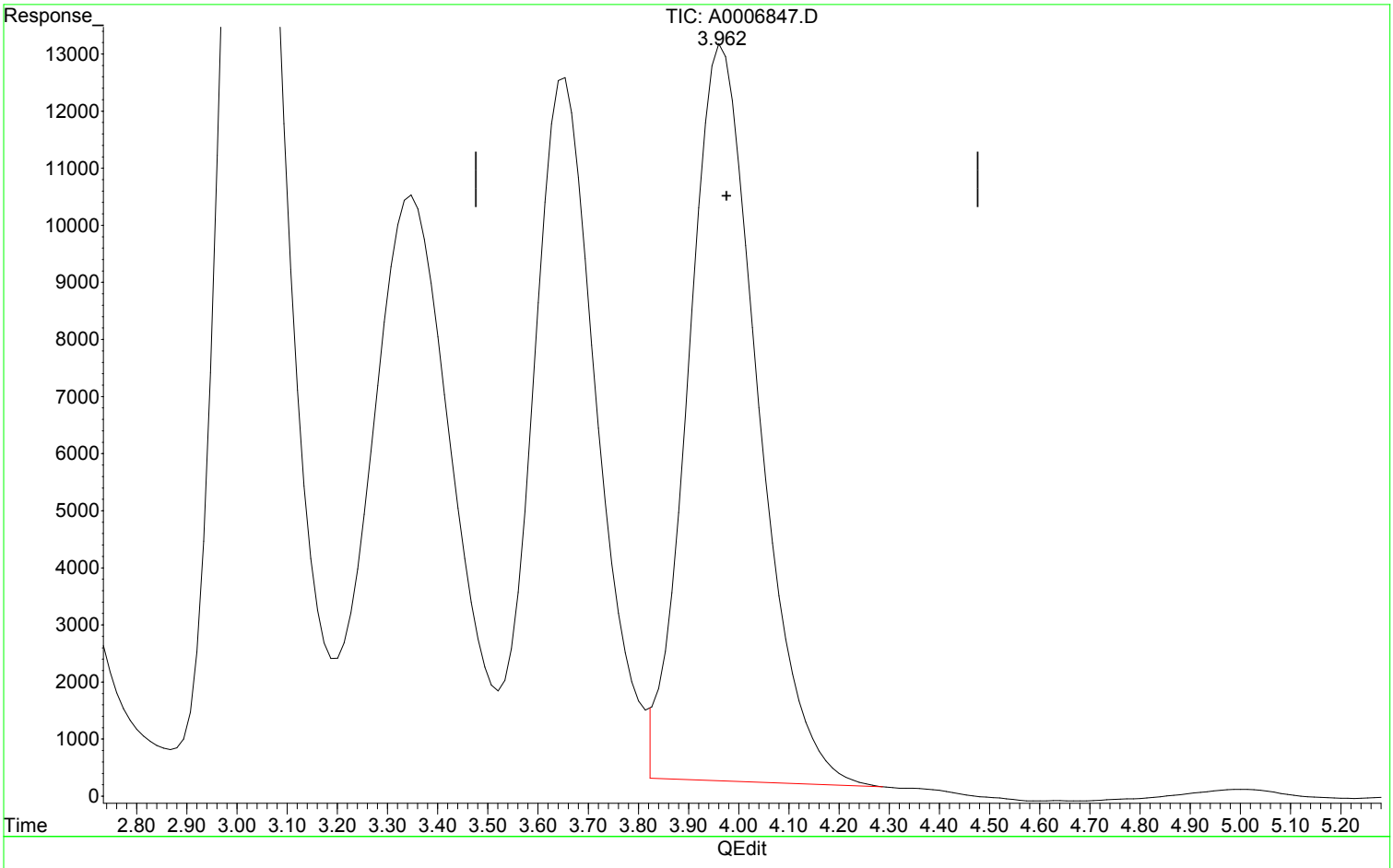
R.T.: 17.334 min
Delta R.T.: 0.049 min
Response: 1647970
Conc: 21.36 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006847.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 12:42:35
Operator : AFelser
Sample : DLCS 2
Misc :
ALS Vial : 30 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 16:35:43 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:35:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.962min 21.374 ppm m

response 1248446

Manual Integration:

After

Poor integration.

06/10/24

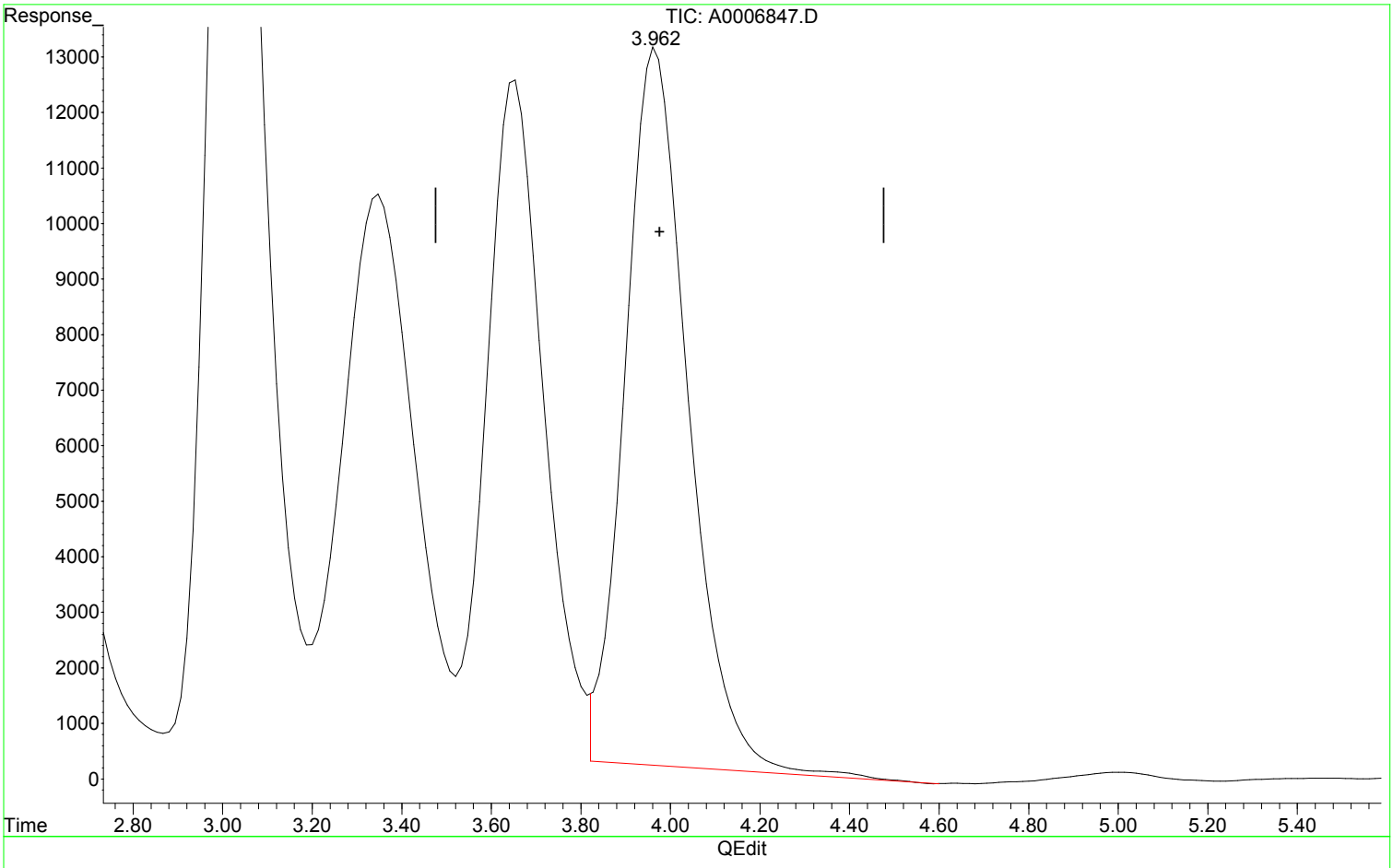
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006847.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 12:42:35
Operator : AFelser
Sample : DLCS 2
Misc :
ALS Vial : 30 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 16:35:43 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:35:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.968min 21.803 ppm

response 1273511

Manual Integration:

Before

06/10/24

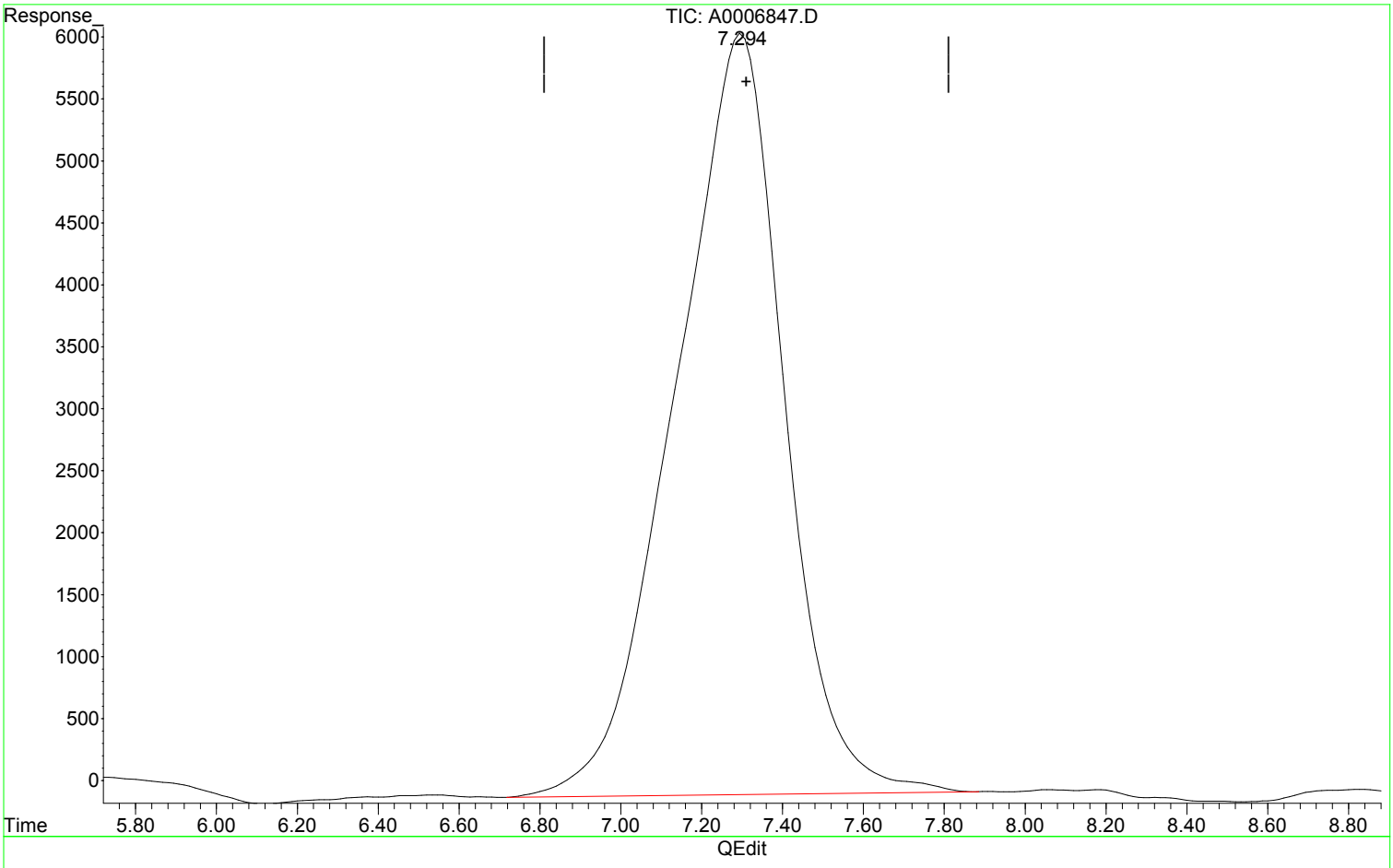
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006847.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 12:42:35
Operator : AFelser
Sample : DLCS 2
Misc :
ALS Vial : 30 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 16:35:43 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:35:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.294min 20.404 ppm m

response 1143323

Manual Integration:

After

Poor integration.

06/10/24

(+) = Expected Retention Time

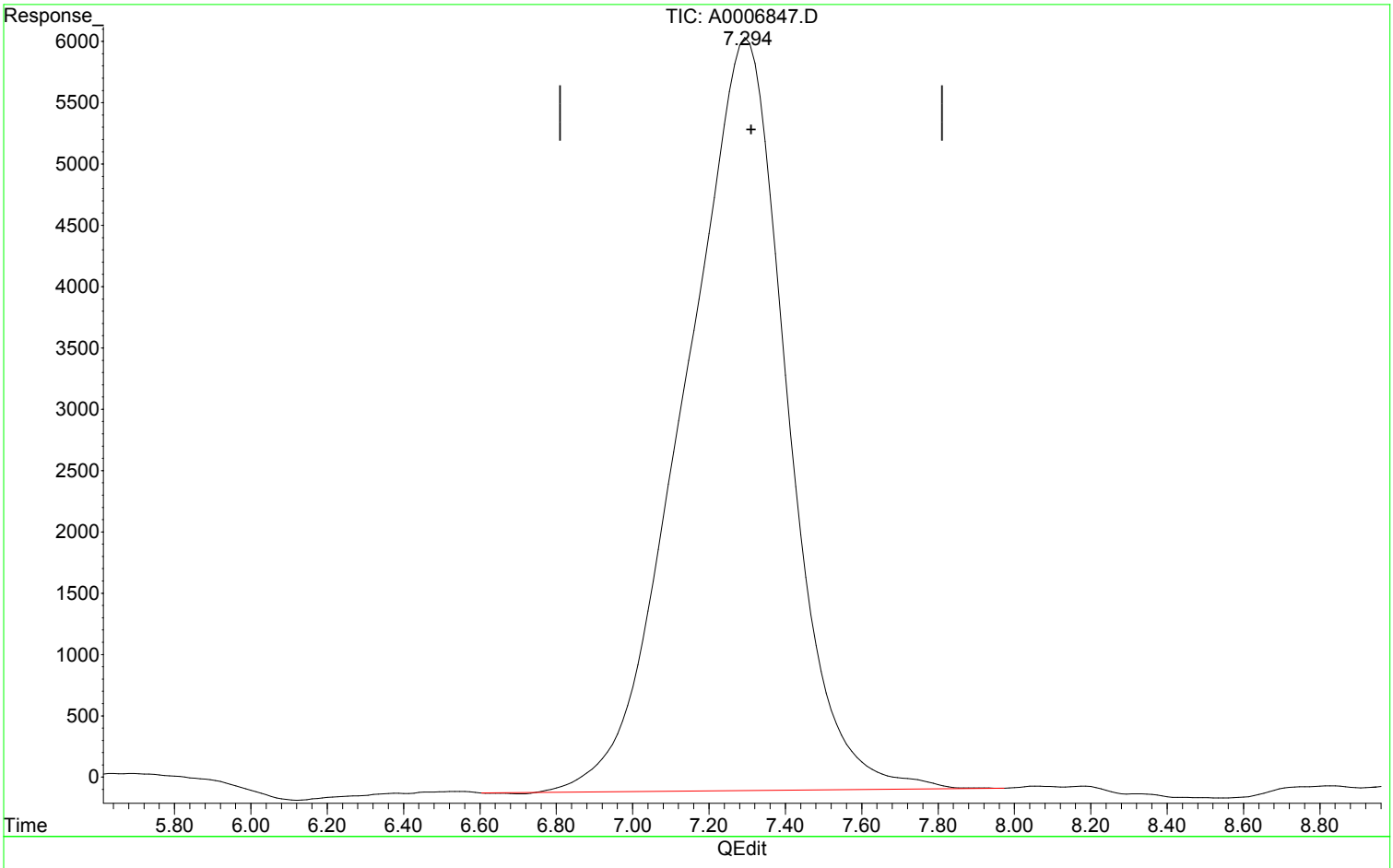
1st 06/10/24
2nd 06/12/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006847.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 12:42:35
Operator : AFelser
Sample : DLCS 2
Misc :
ALS Vial : 30 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 16:35:43 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:35:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.300min 20.349 ppm

response 1140245

Manual Integration:

Before

06/10/24

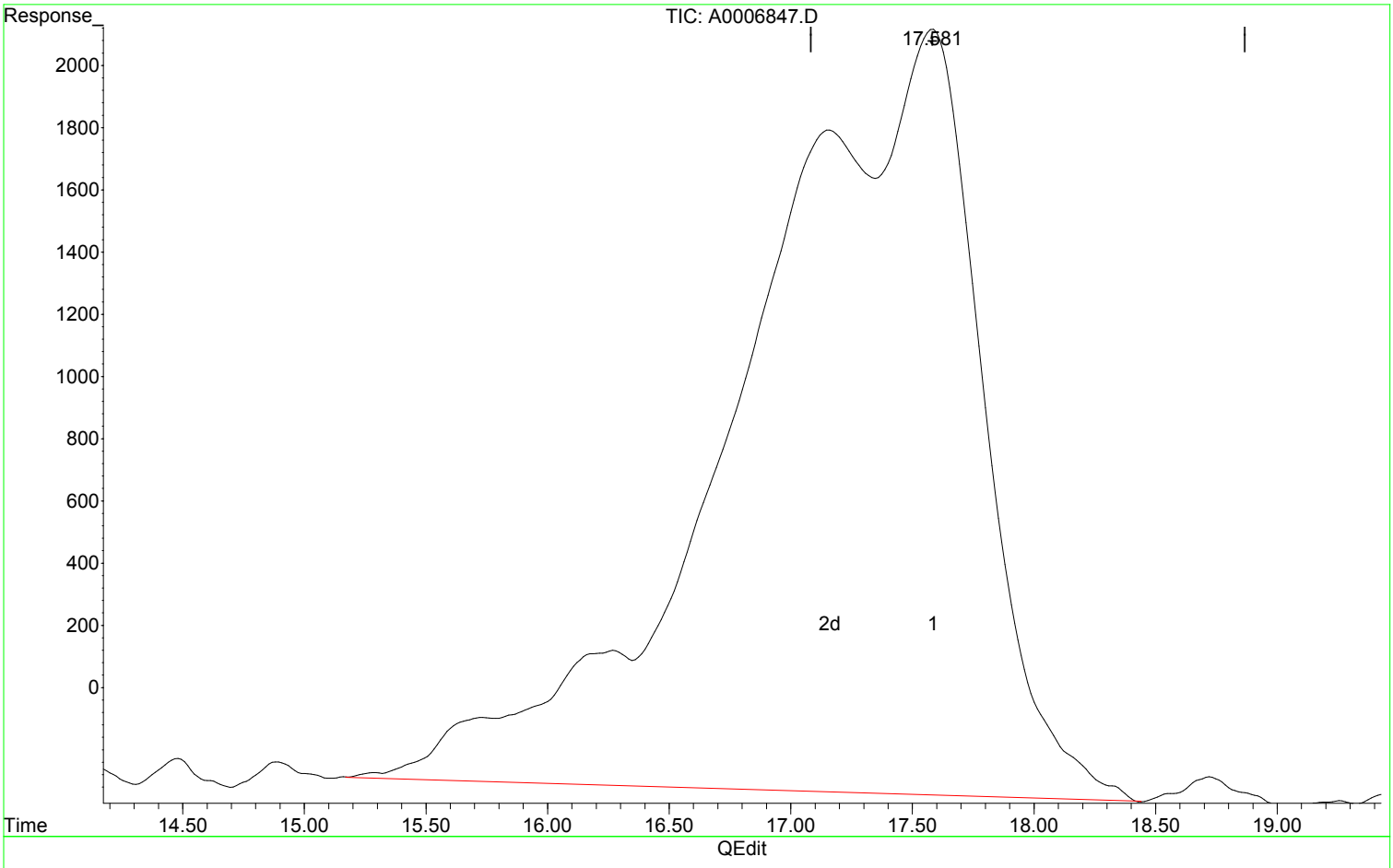
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006847.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 12:42:35
Operator : AFelser
Sample : DLCS 2
Misc :
ALS Vial : 30 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 16:35:43 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:35:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.581min 20.220 ppm m

response 1654456

Manual Integration:

After

Poor integration.

06/10/24

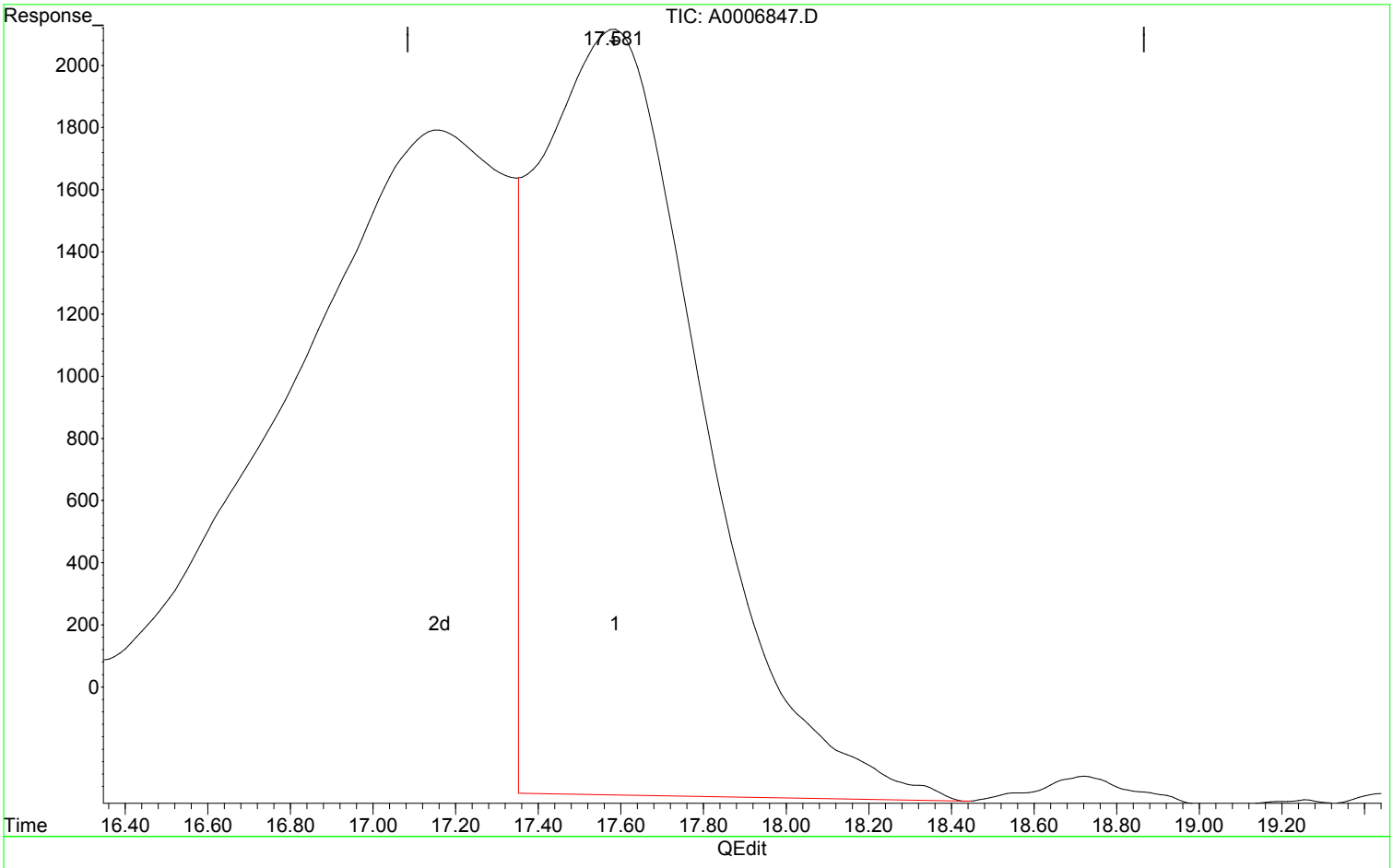
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006847.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 12:42:35
Operator : AFelser
Sample : DLCS 2
Misc :
ALS Vial : 30 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 16:35:43 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:35:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.587min 8.389 ppm

response 686398

Manual Integration:

Before

06/10/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006847.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 12:42:35
Operator : AFelser
Sample : DLCS 2
Misc :
ALS Vial : 30 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 16:35:43 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:35:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

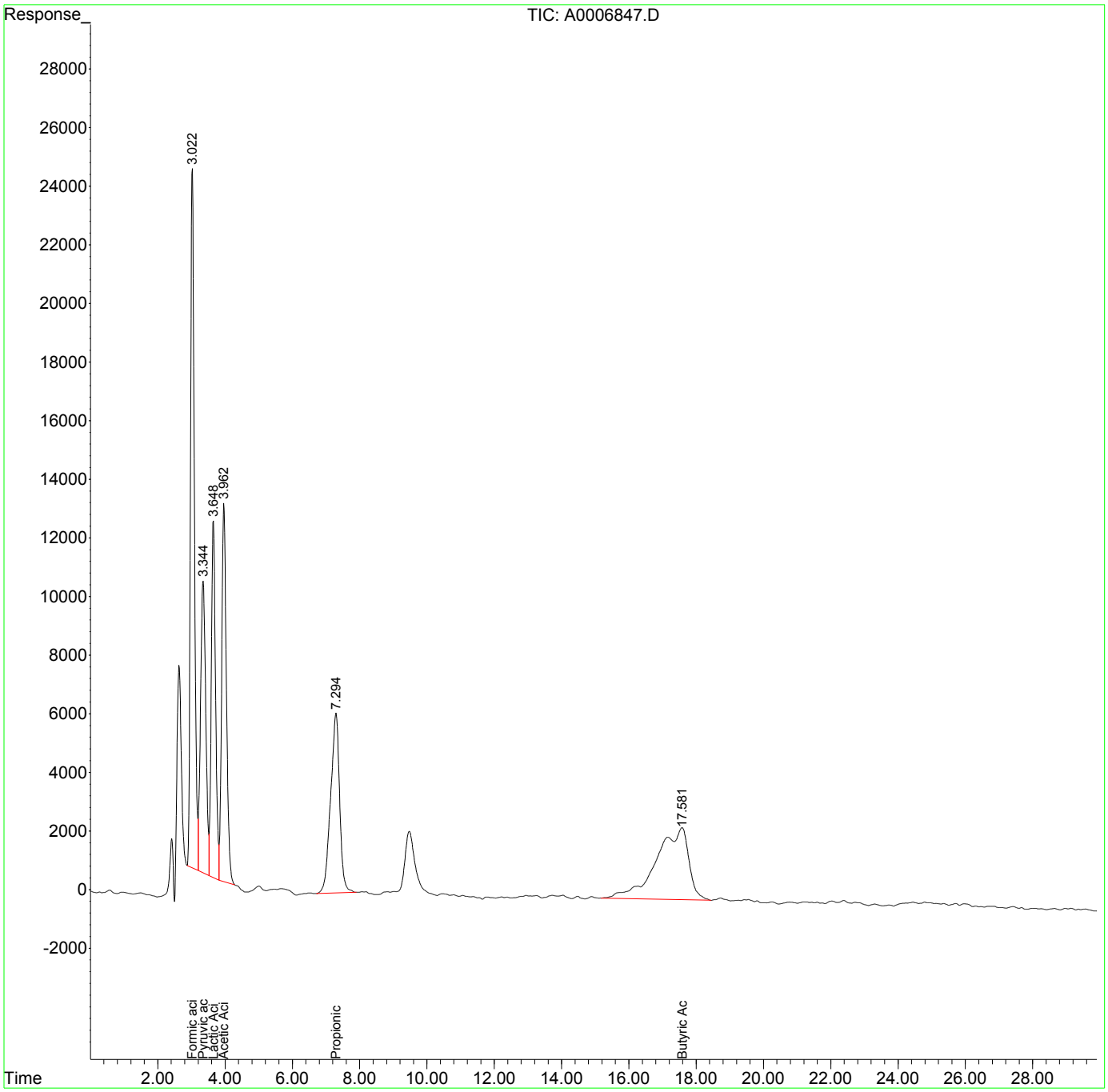
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.027	1925160	21.277	ppm	
2) T	Pyruvic acid	3.349	1084694	2.414	ppm	
3) T	Lactic Acid	3.654	1074448	22.844	ppm	
4) T	Acetic Acid	3.962	1248446	21.374	ppm	m
5) T	Propionic Acid	7.294	1143323	20.404	ppm	m
6) T	Butyric Acid	17.581	1654456	20.220	ppm	m

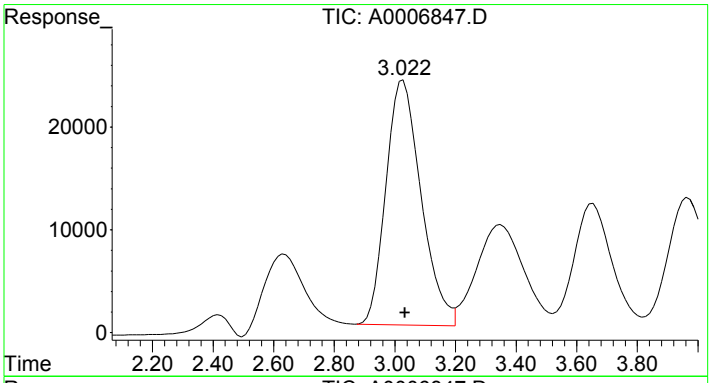
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006847.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 12:42:35
Operator : AFelser
Sample : DLCS 2
Misc :
ALS Vial : 30 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 16:35:43 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:35:12 2024
Response via : Initial Calibration
Integrator: ChemStation

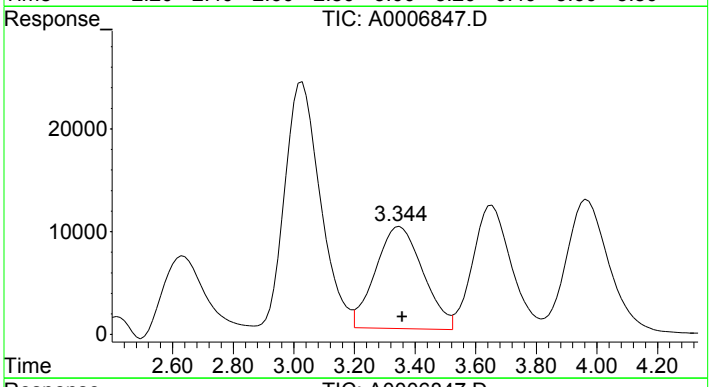
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





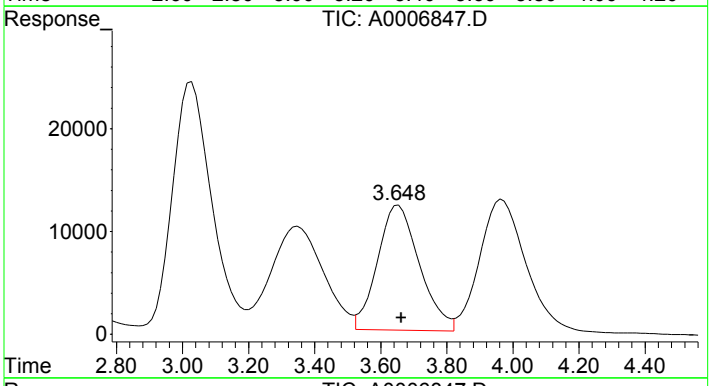
#1 Formic acid

R.T.: 3.027 min
Delta R.T.: -0.007 min
Response: 1925160
Conc: 21.28 ppm



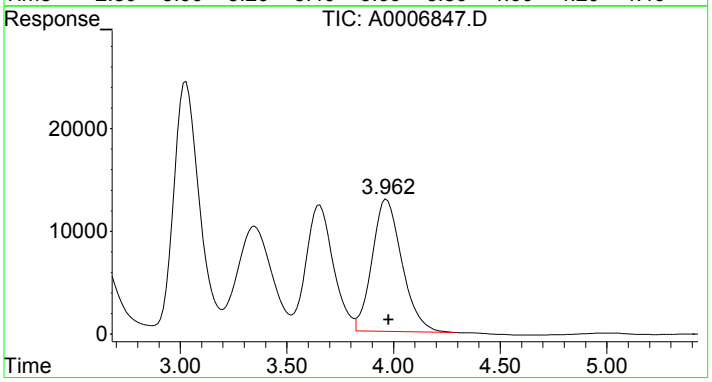
#2 Pyruvic acid

R.T.: 3.349 min
Delta R.T.: -0.008 min
Response: 1084694
Conc: 2.41 ppm



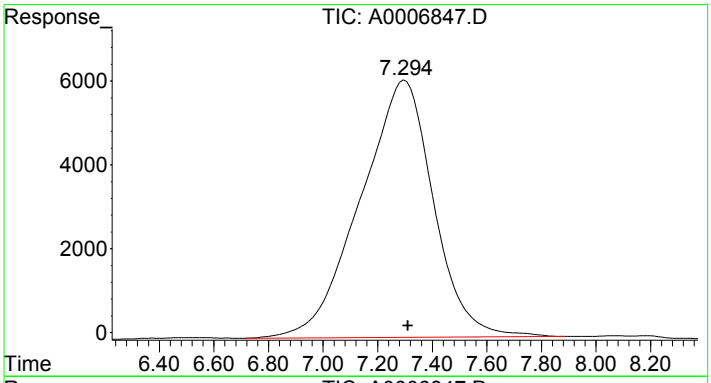
#3 Lactic Acid

R.T.: 3.654 min
Delta R.T.: -0.009 min
Response: 1074448
Conc: 22.84 ppm



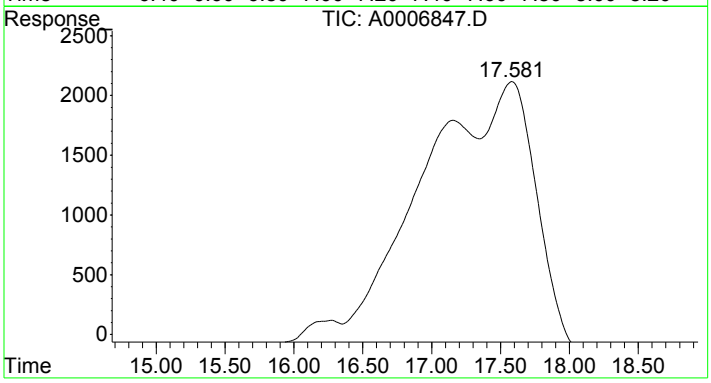
#4 Acetic Acid

R.T.: 3.962 min
Delta R.T.: -0.015 min
Response: 1248446
Conc: 21.37 ppm m



#5 Propionic Acid

R.T.: 7.294 min
Delta R.T.: -0.016 min
Response: 1143323
Conc: 20.40 ppm m



#6 Butyric Acid

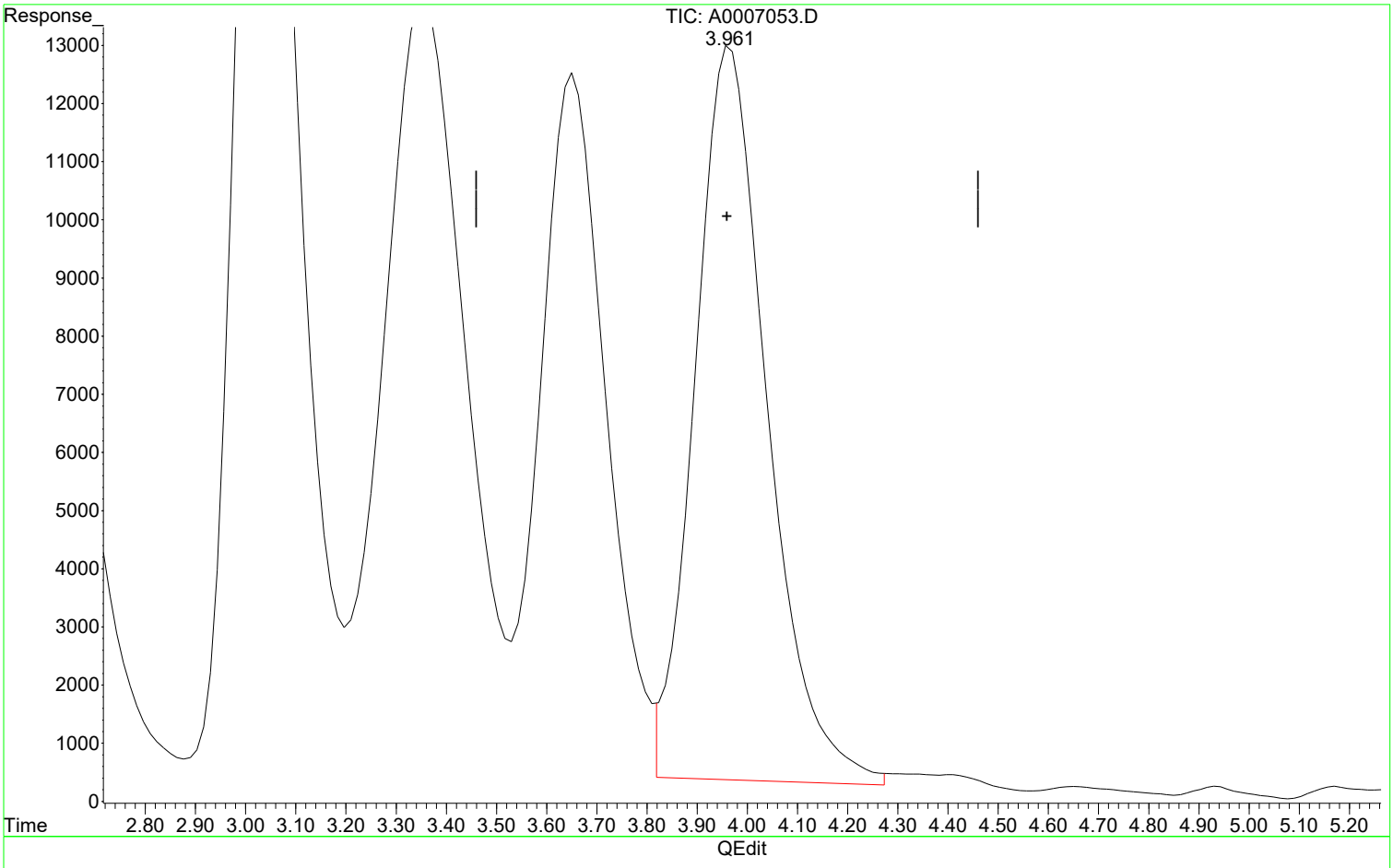
R.T.: 17.581 min
Delta R.T.: -0.003 min
Response: 1654456
Conc: 20.22 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007053.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 02:06:28
Operator : AFelser
Sample : DLCS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:46:59 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.961min 21.882 ppm m

response 1263096

Manual Integration:

After

Poor integration.

06/19/24

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007053.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 02:06:28
Operator : AFelser
Sample : DLCS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:46:59 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
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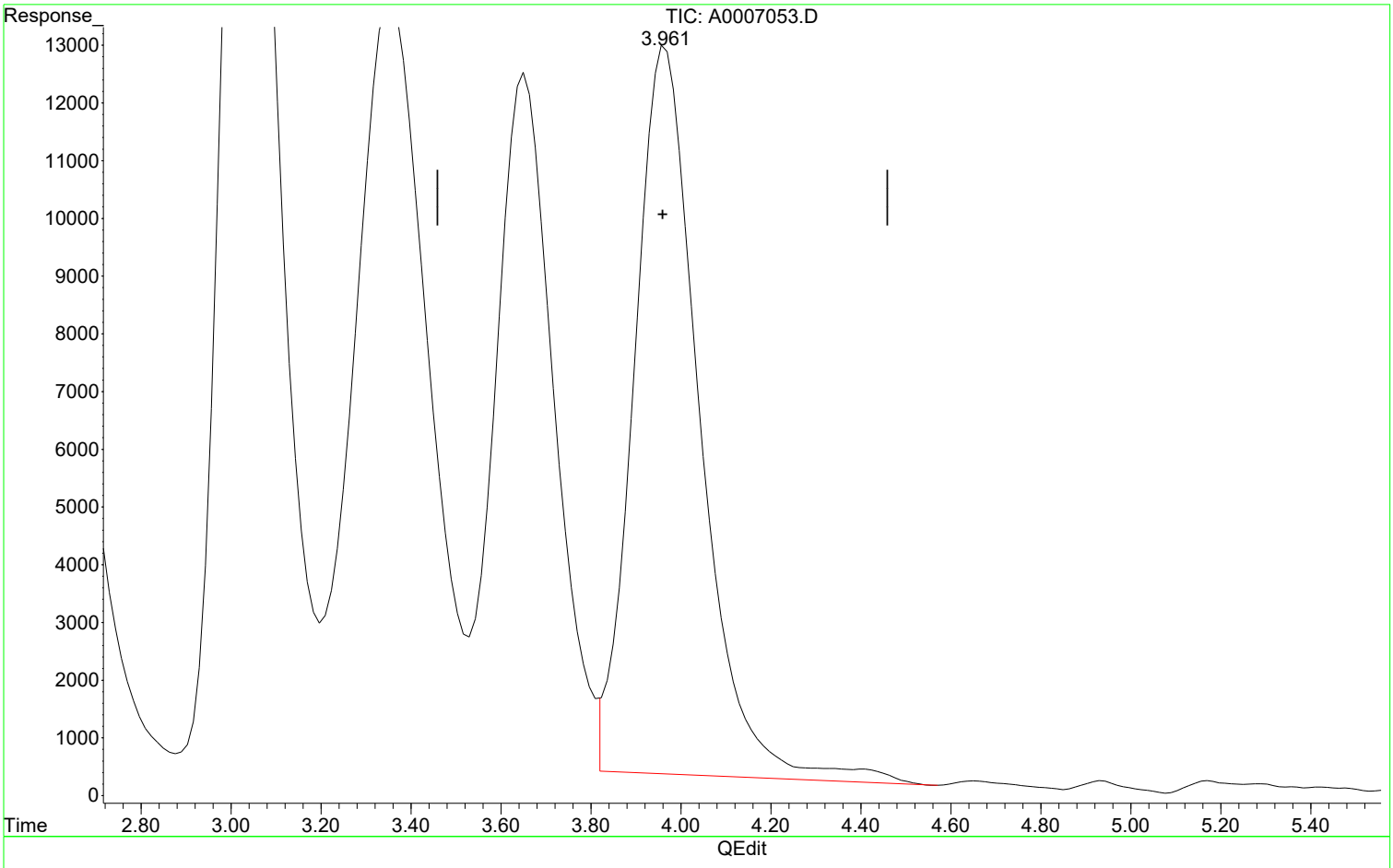
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.966min 22.392 ppm

response 1292489

Manual Integration:

Before

06/19/24

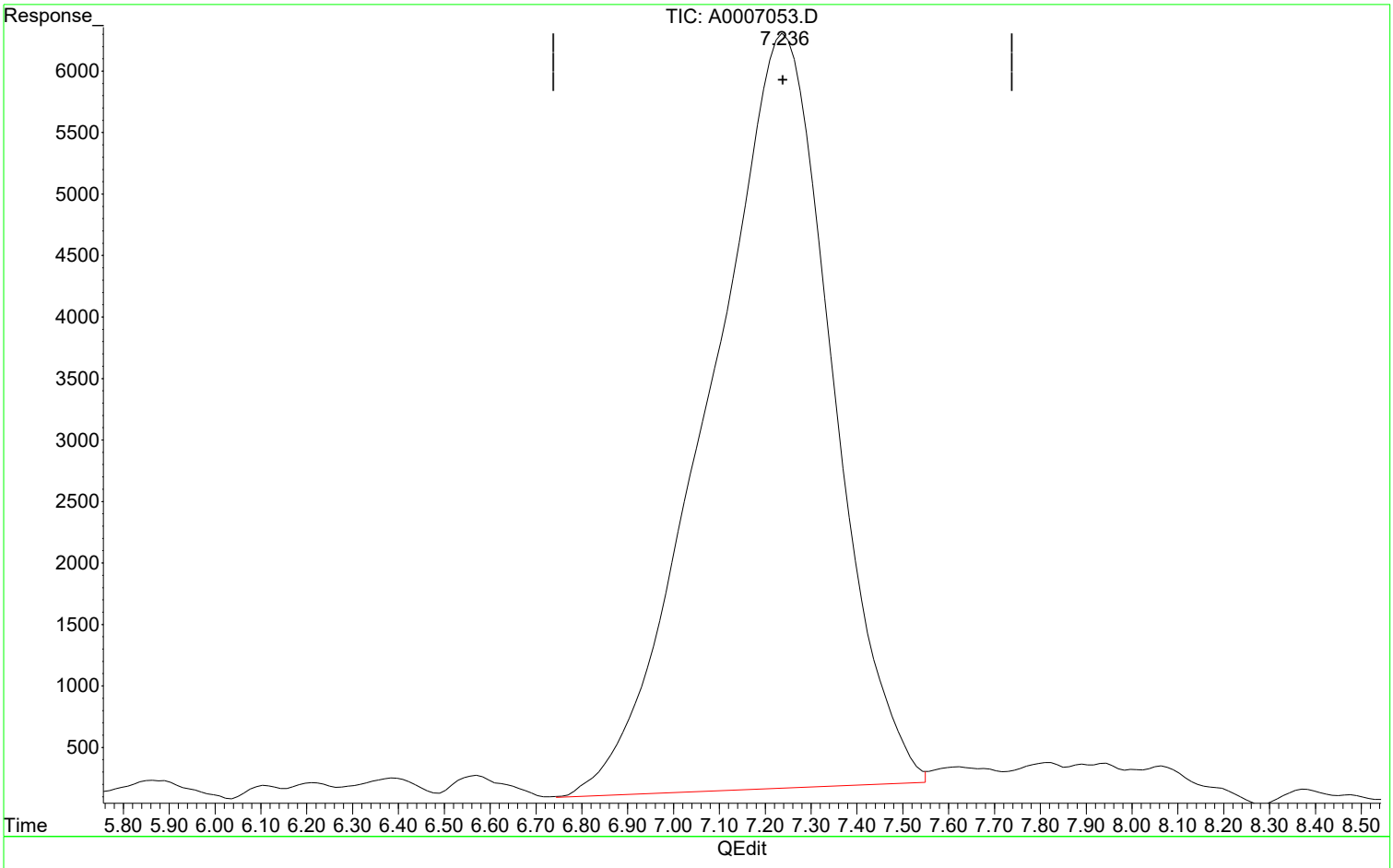
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007053.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 02:06:28
Operator : AFelser
Sample : DLCS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:46:59 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.236min 19.448 ppm m

response 1141114

Manual Integration:

After

Poor integration.

06/19/24

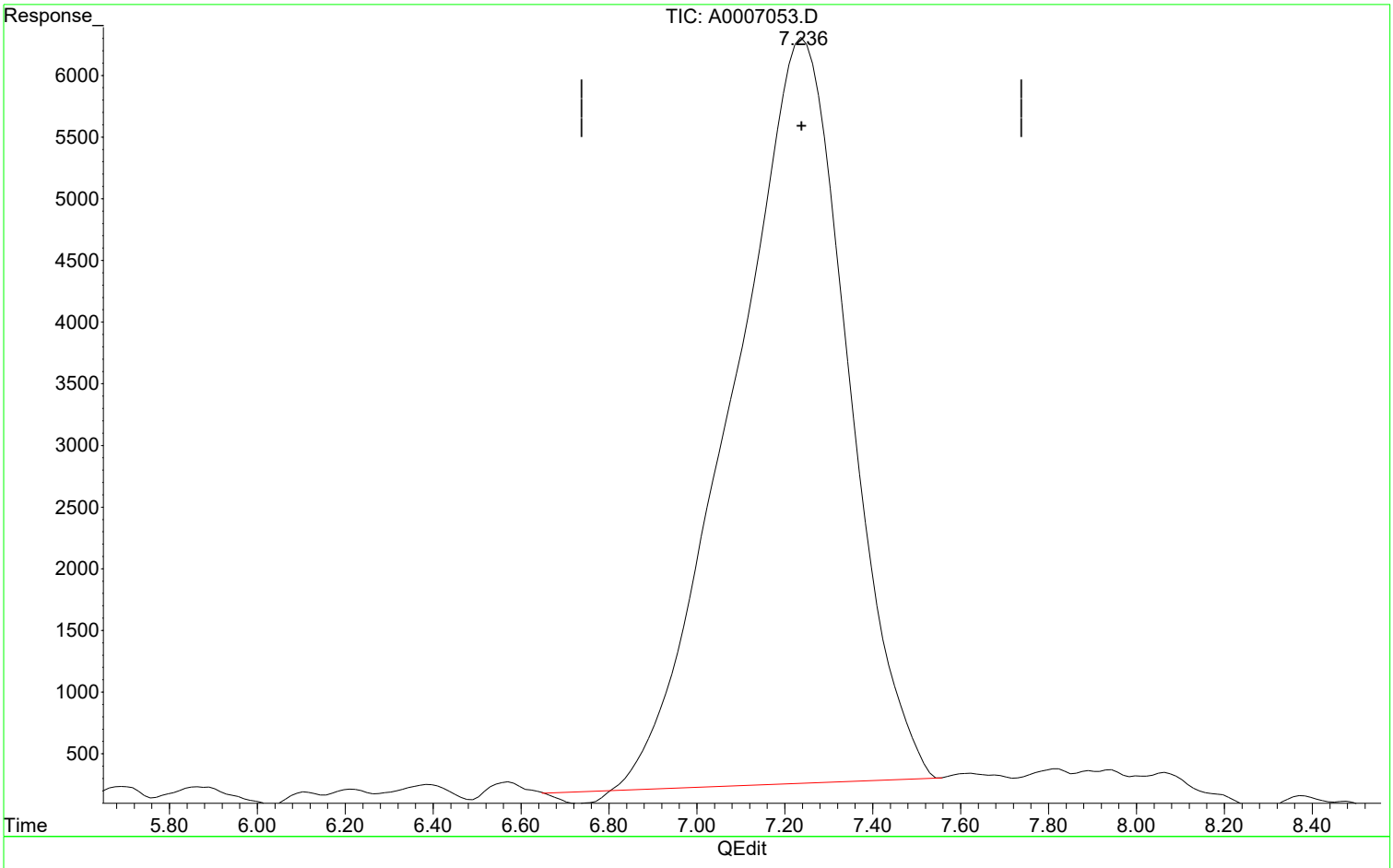
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007053.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 02:06:28
Operator : AFelser
Sample : DLCS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:46:59 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.242min 18.629 ppm

response 1093038

Manual Integration:

Before

06/19/24

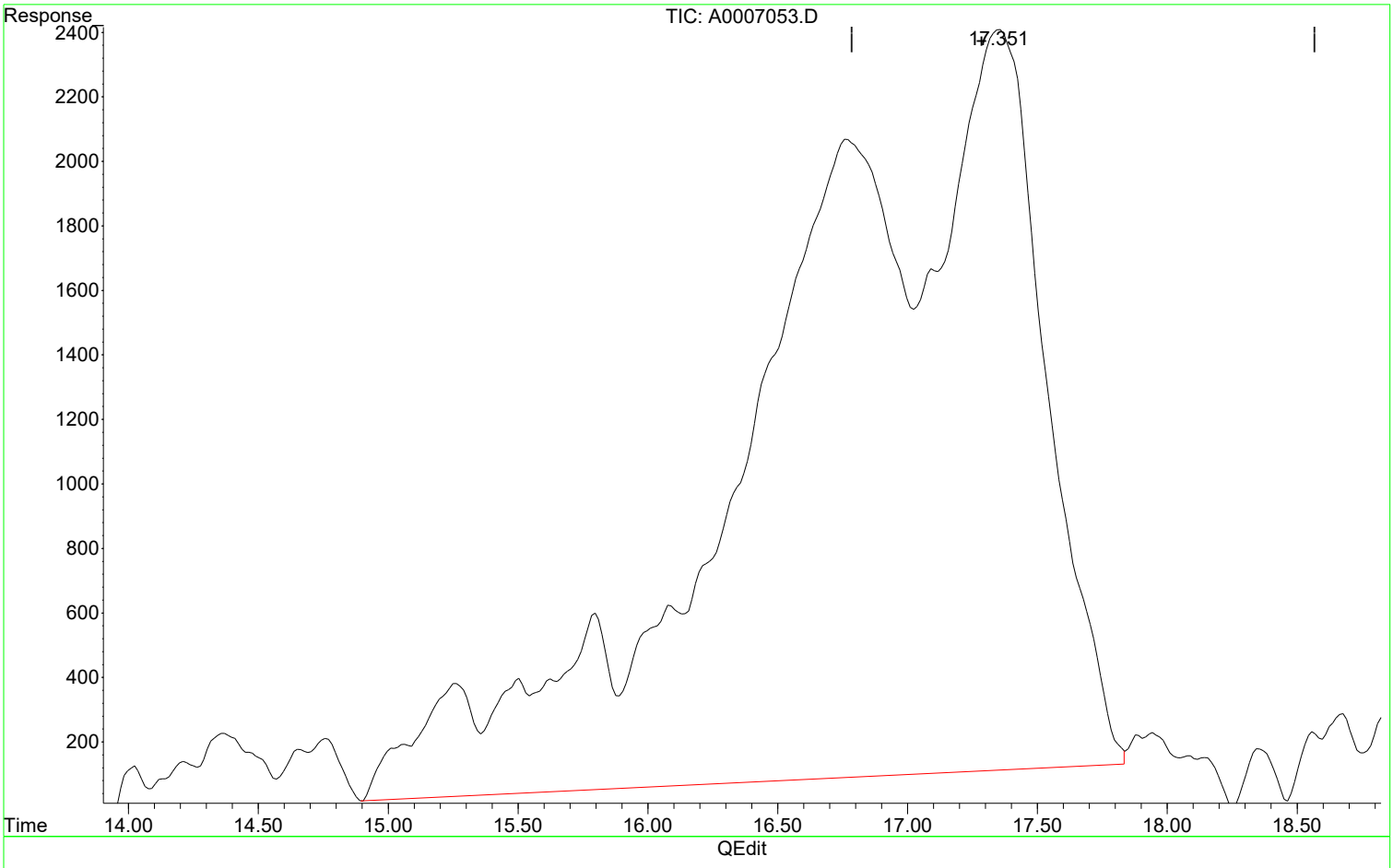
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007053.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 02:06:28
Operator : AFelser
Sample : DLCS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:46:59 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.351min 21.173 ppm m

response 1633772

Manual Integration:

After

Poor integration.

06/19/24

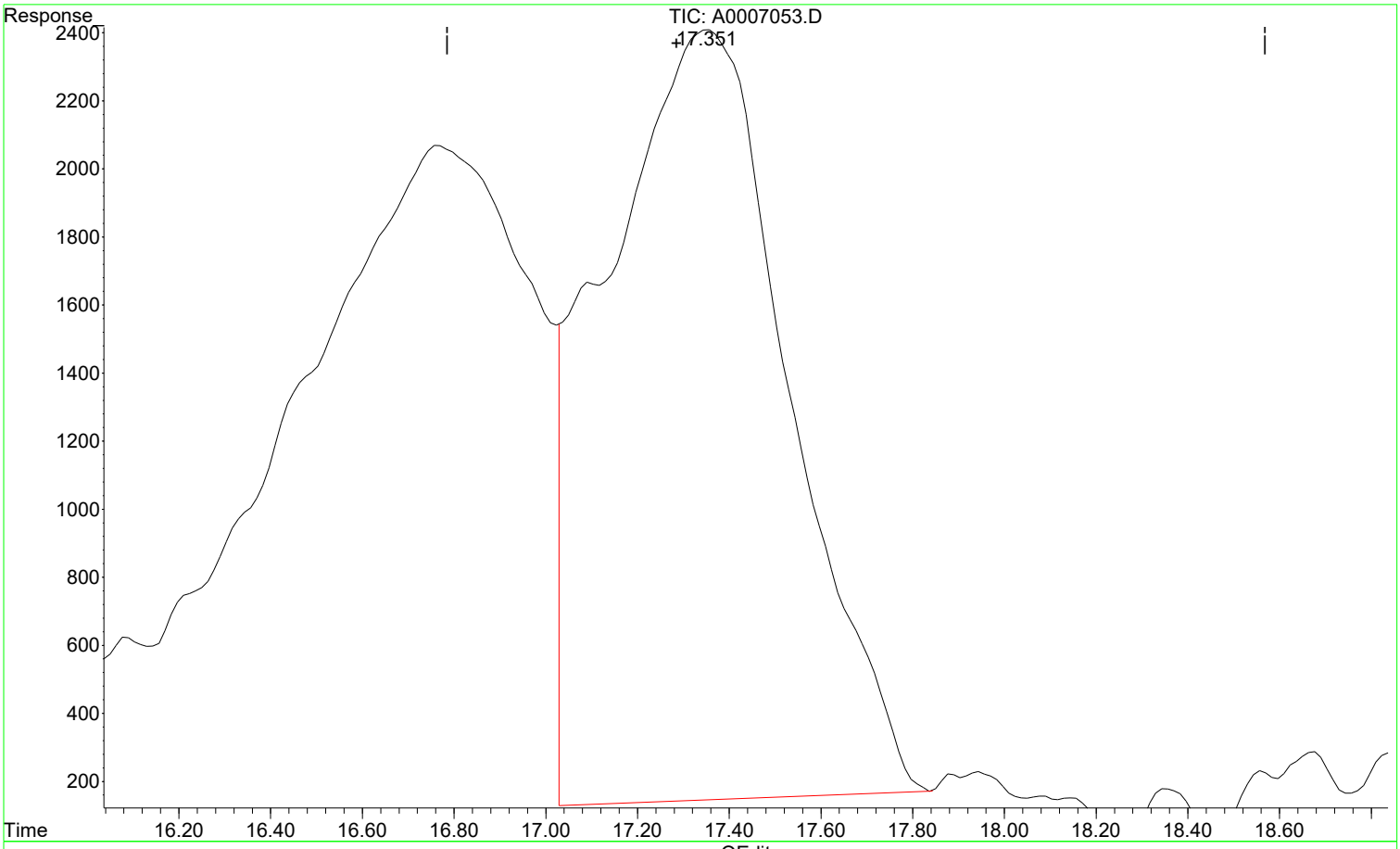
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007053.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 02:06:28
Operator : AFelser
Sample : DLCS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:46:59 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.355min 8.320 ppm

response 641981

Manual Integration:

Before

06/19/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007053.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 02:06:28
Operator : AFelser
Sample : DLCS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:46:59 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

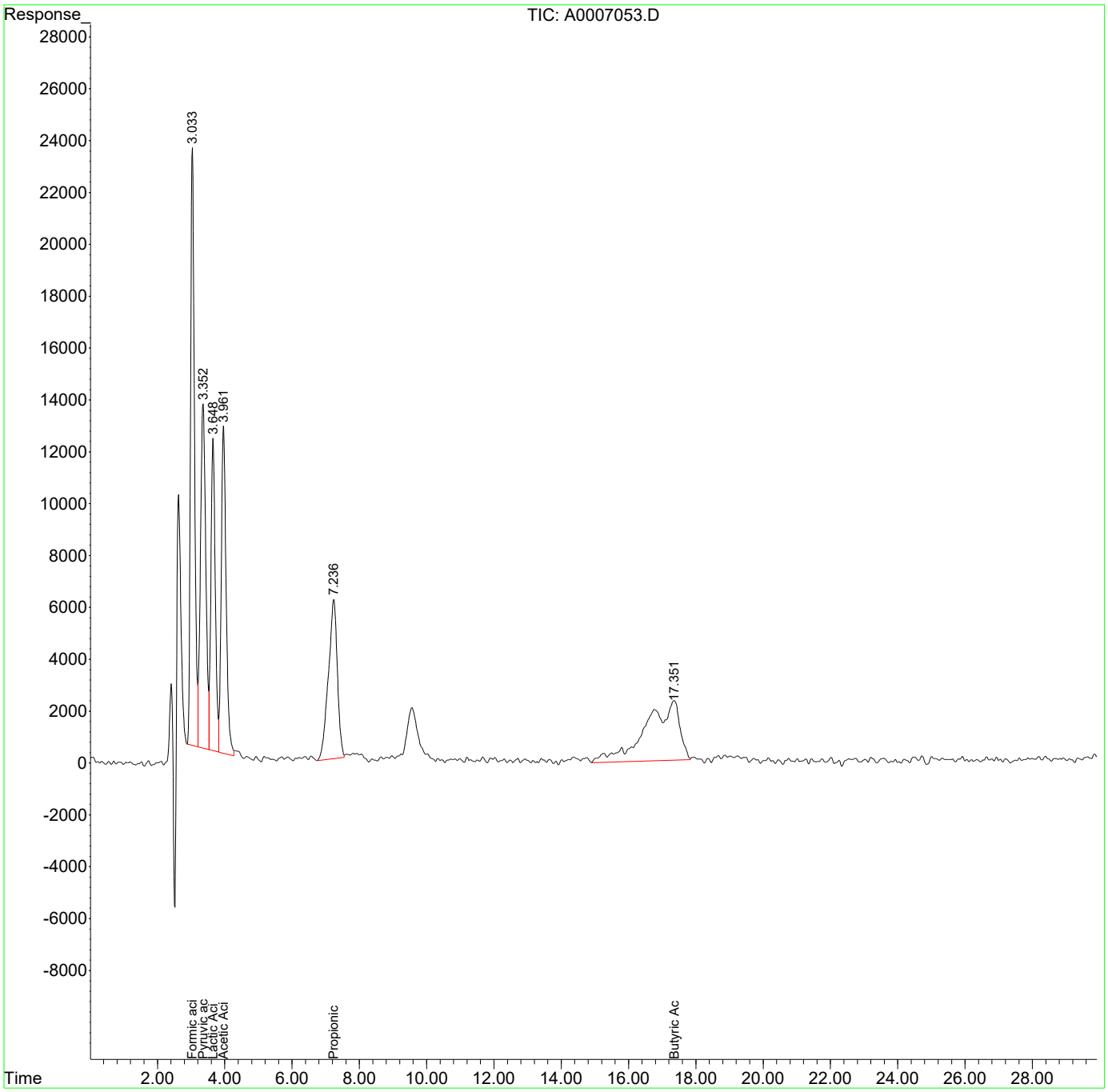
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.039	1880150	21.355	ppm	
2) T	Pyruvic acid	3.357	1471584	2.223	ppm	
3) T	Lactic Acid	3.654	1090956	22.804	ppm	
4) T	Acetic Acid	3.961	1263096	21.882	ppm	m
5) T	Propionic Acid	7.236	1141114	19.448	ppm	m
6) T	Butyric Acid	17.351	1633772	21.173	ppm	m

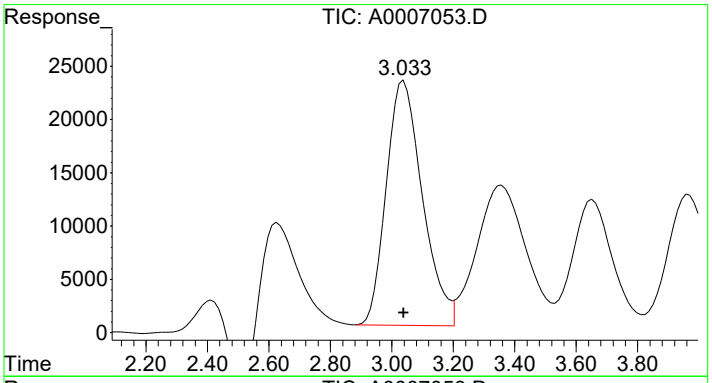
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007053.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 02:06:28
Operator : AFelser
Sample : DLCS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:46:59 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

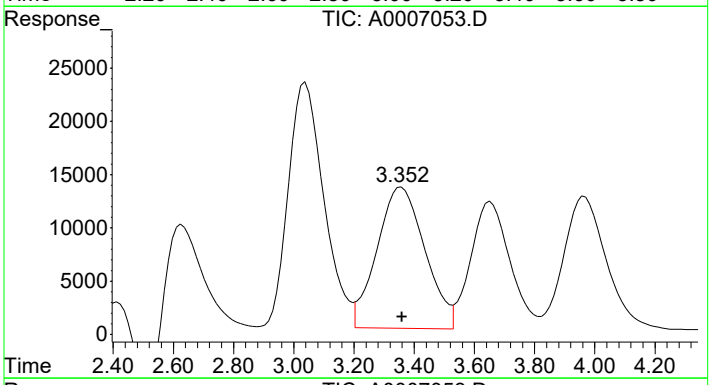
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





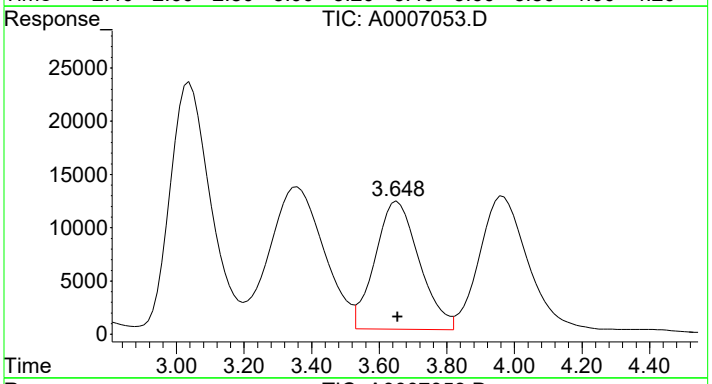
#1 Formic acid

R.T.: 3.039 min
Delta R.T.: 0.000 min
Response: 1880150
Conc: 21.35 ppm



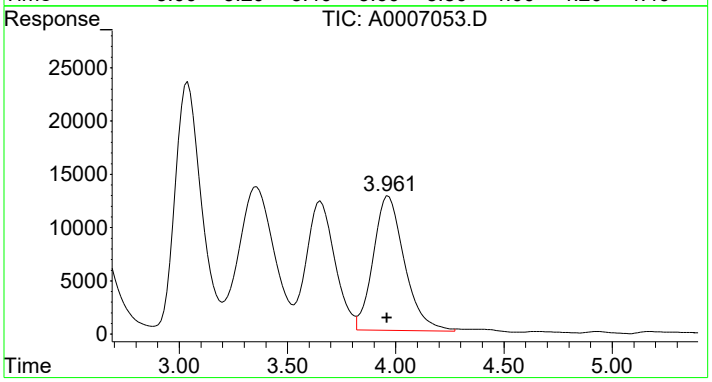
#2 Pyruvic acid

R.T.: 3.357 min
Delta R.T.: -0.001 min
Response: 1471584
Conc: 2.22 ppm



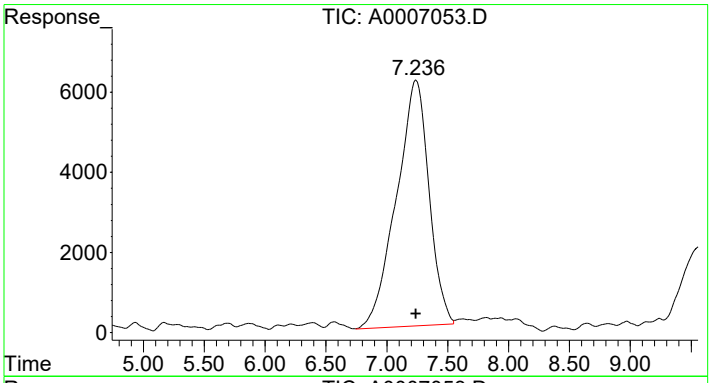
#3 Lactic Acid

R.T.: 3.654 min
Delta R.T.: 0.000 min
Response: 1090956
Conc: 22.80 ppm



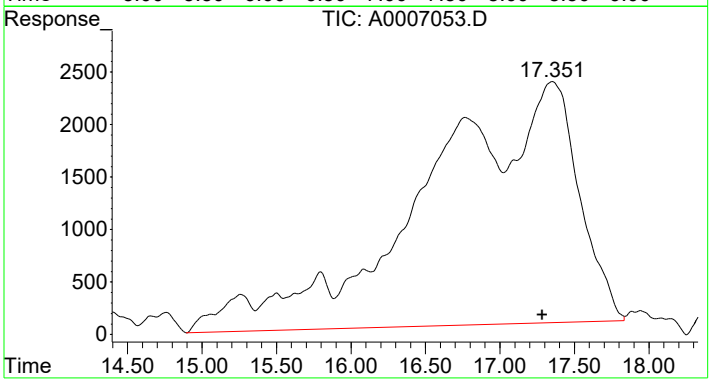
#4 Acetic Acid

R.T.: 3.961 min
Delta R.T.: 0.000 min
Response: 1263096
Conc: 21.88 ppm m



#5 Propionic Acid

R.T.: 7.236 min
Delta R.T.: -0.002 min
Response: 1141114
Conc: 19.45 ppm m



#6 Butyric Acid

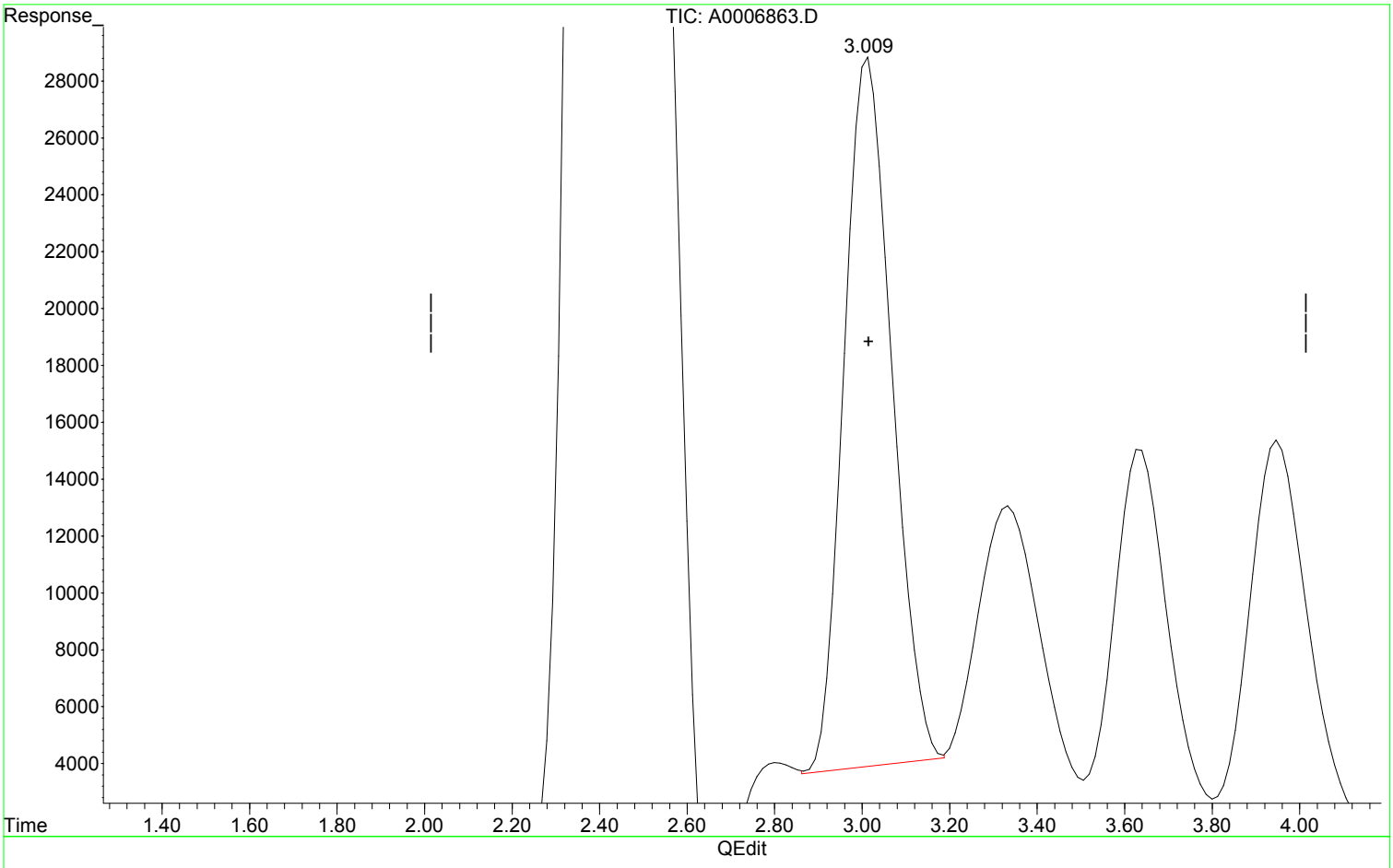
R.T.: 17.351 min
Delta R.T.: 0.065 min
Response: 1633772
Conc: 21.17 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006863.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 21:20:00
Operator : AFelser
Sample : R2404674-011MS
Misc :
ALS Vial : 45 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:43:56 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)

3.009min 21.048 ppm m

response 1904422

Manual Integration:

After

Poor integration.

06/10/24

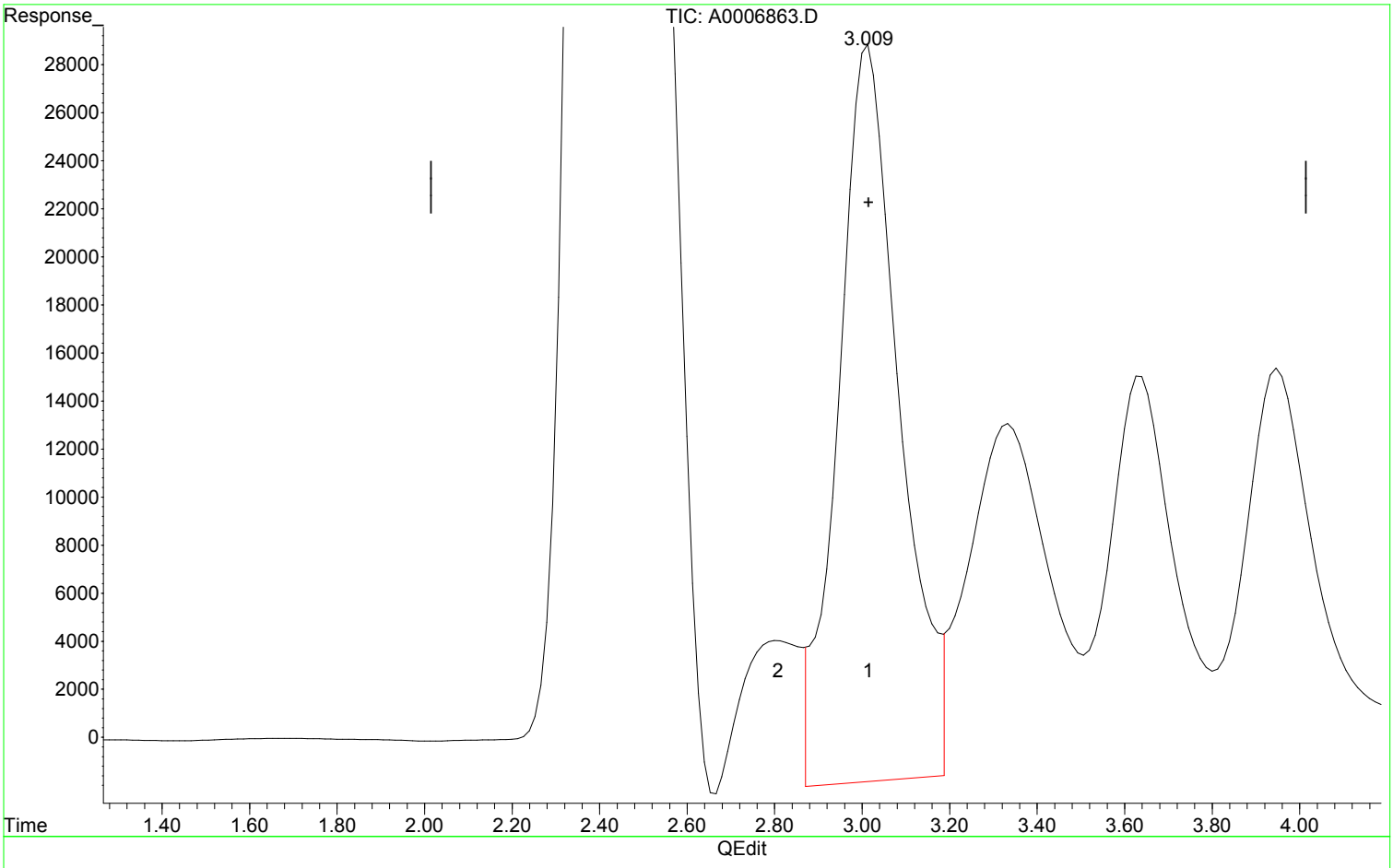
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006863.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 21:20:00
Operator : AFelser
Sample : R2404674-011MS
Misc :
ALS Vial : 45 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:43:56 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)

3.015min 33.080 ppm

response 2993044

Manual Integration:

Before

06/10/24

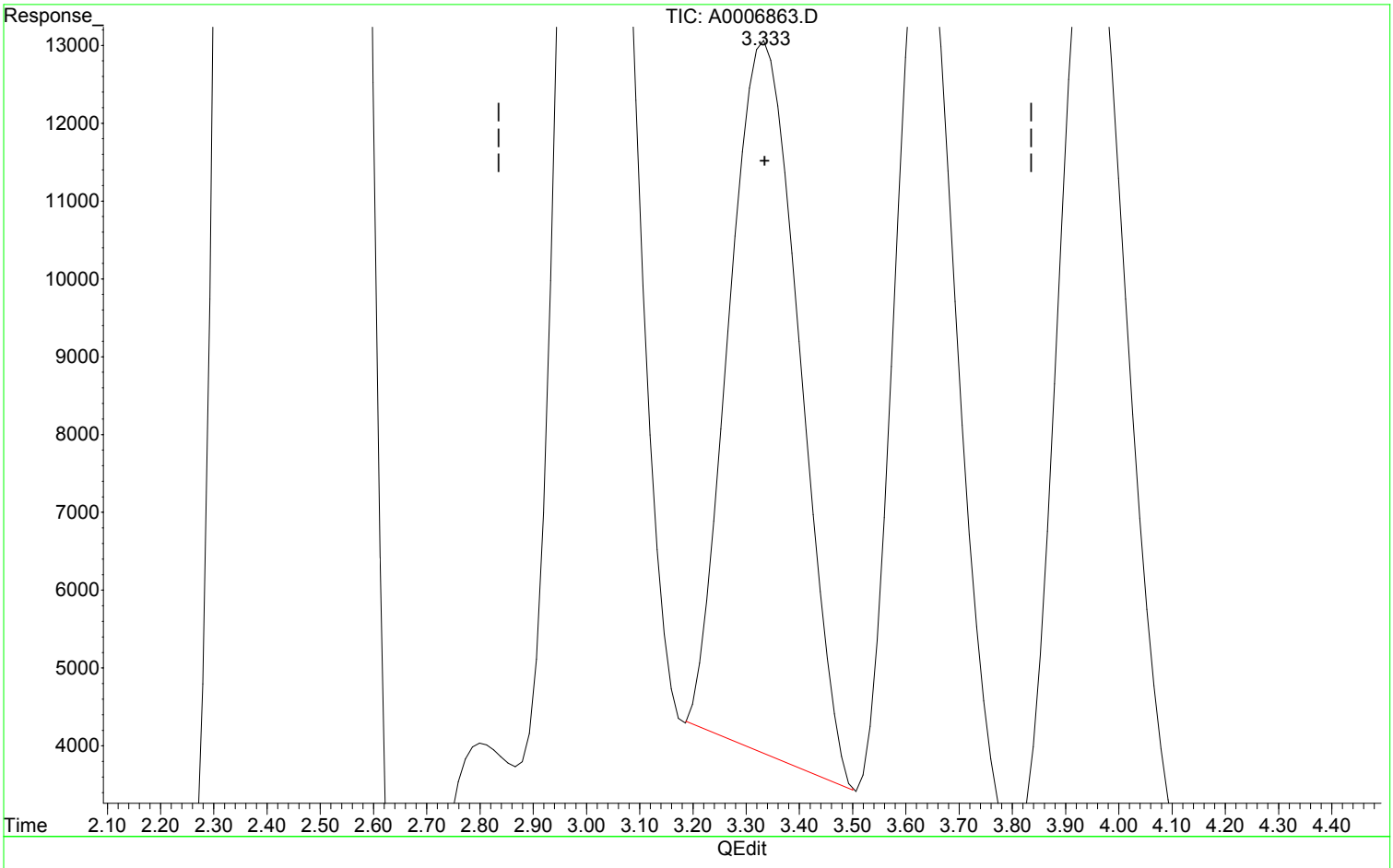
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006863.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 21:20:00
Operator : AFelser
Sample : R2404674-011MS
Misc :
ALS Vial : 45 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:43:56 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(2) Pyruvic acid (T)

3.333min 1.872 ppm m

response 841231

Manual Integration:

After

Poor integration.

06/10/24

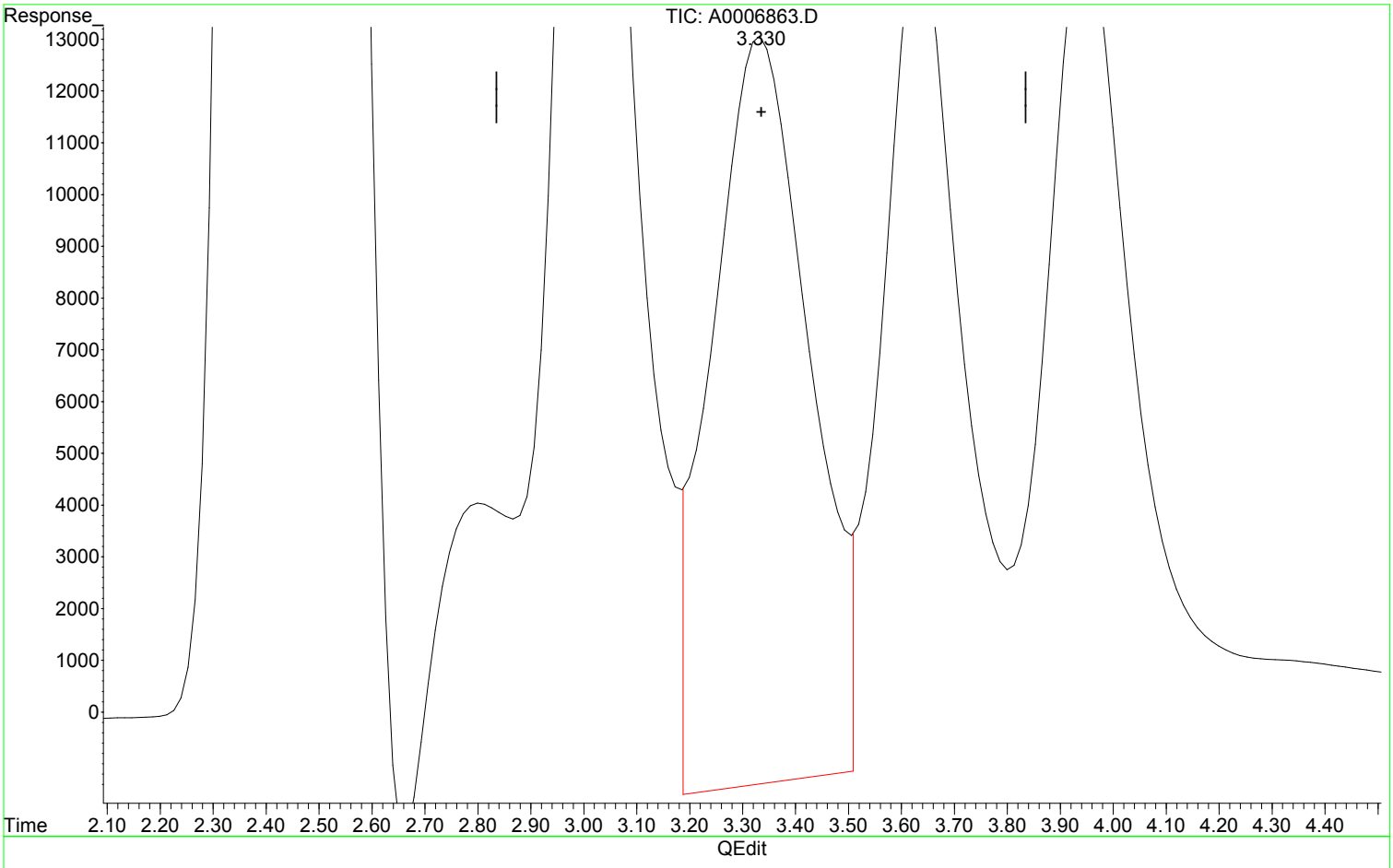
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006863.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 21:20:00
Operator : AFelser
Sample : R2404674-011MS
Misc :
ALS Vial : 45 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:43:56 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(2) Pyruvic acid (T)

3.336min 4.125 ppm

response 1853602

Manual Integration:

Before

06/10/24

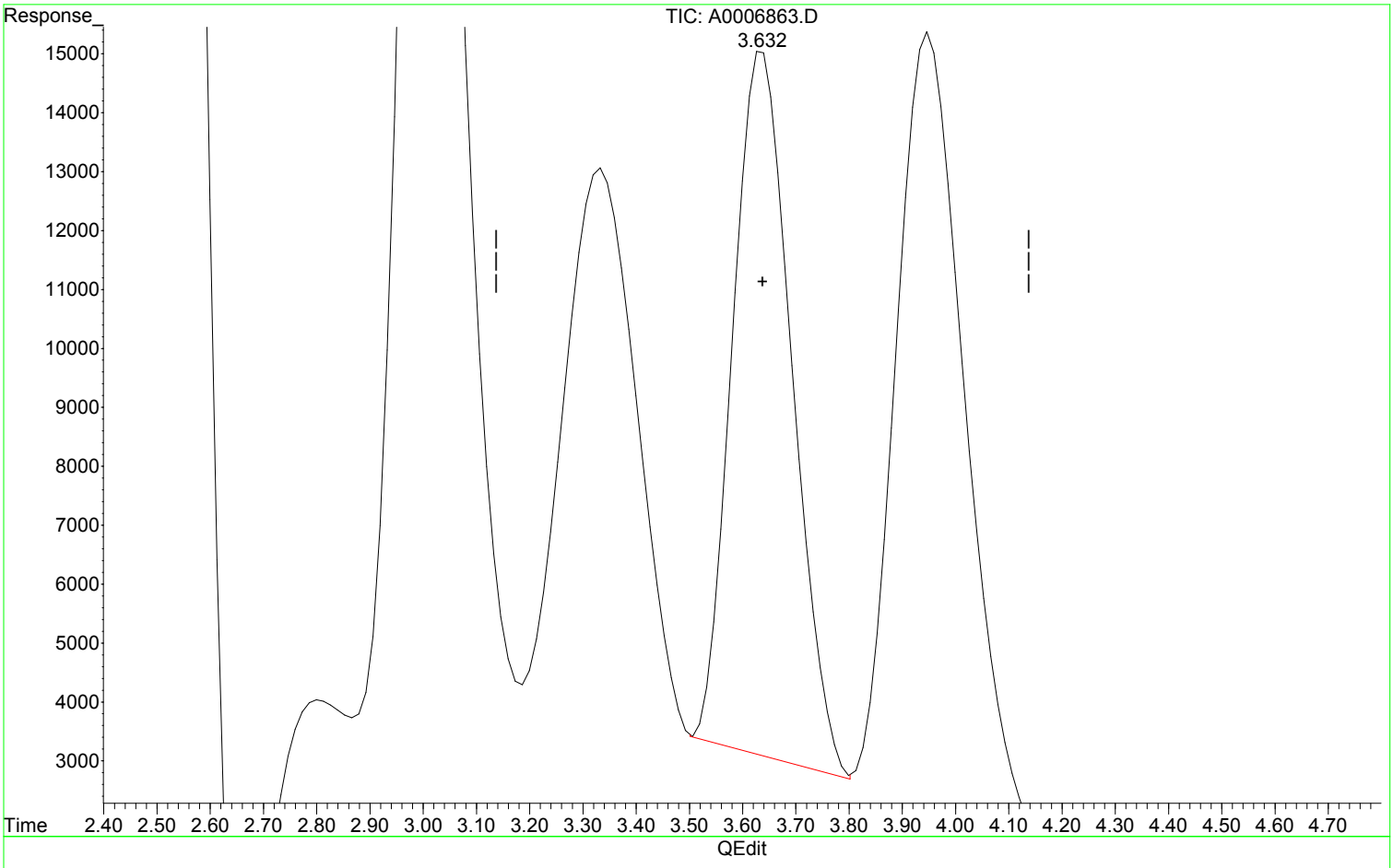
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006863.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 21:20:00
Operator : AFelser
Sample : R2404674-011MS
Misc :
ALS Vial : 45 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:43:56 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)

3.632min 19.821 ppm m

response 932276

Manual Integration:

After

Poor integration.

06/10/24

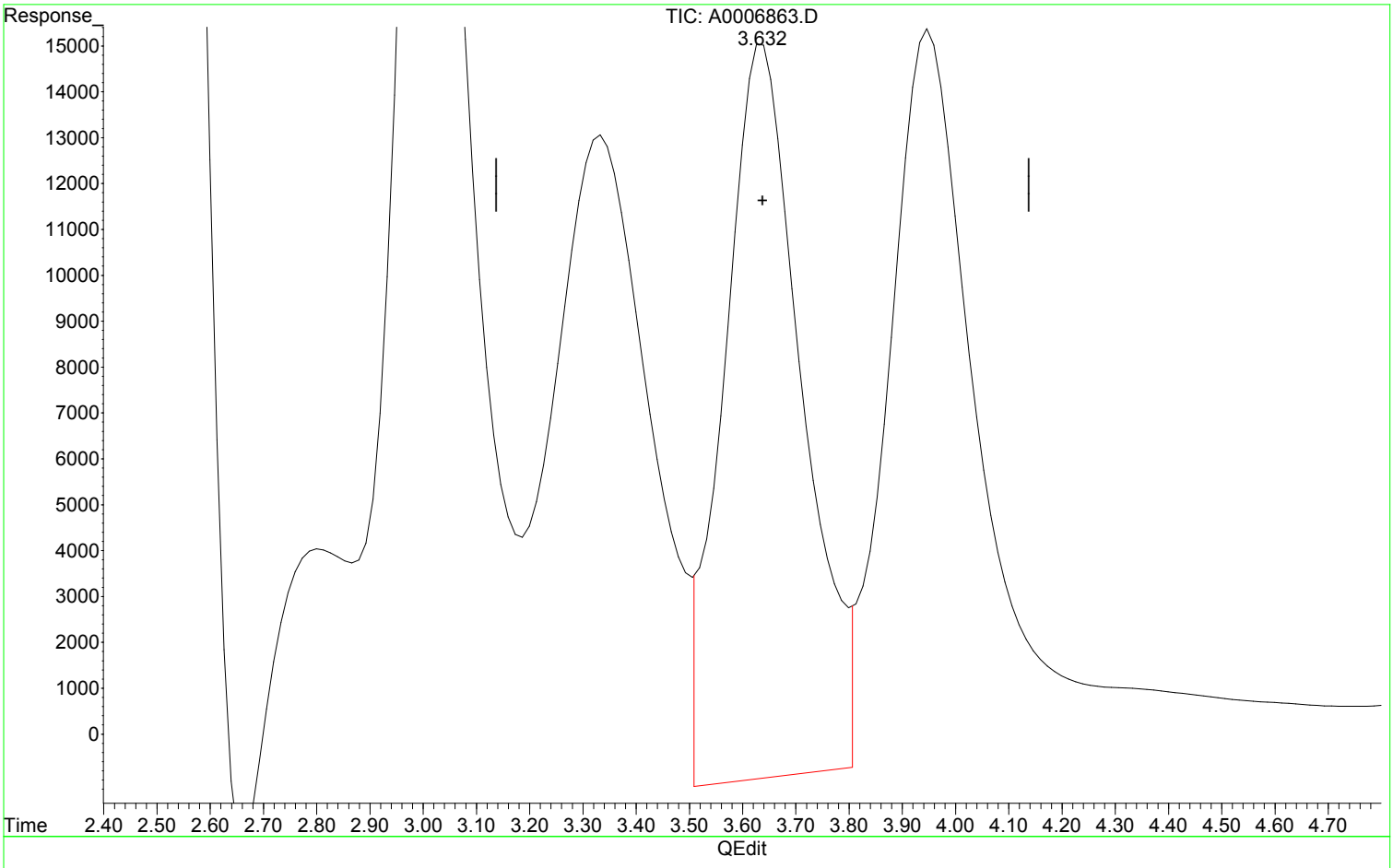
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006863.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 21:20:00
Operator : AFelser
Sample : R2404674-011MS
Misc :
ALS Vial : 45 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:43:56 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)

3.638min 34.925 ppm

response 1642677

Manual Integration:

Before

06/10/24

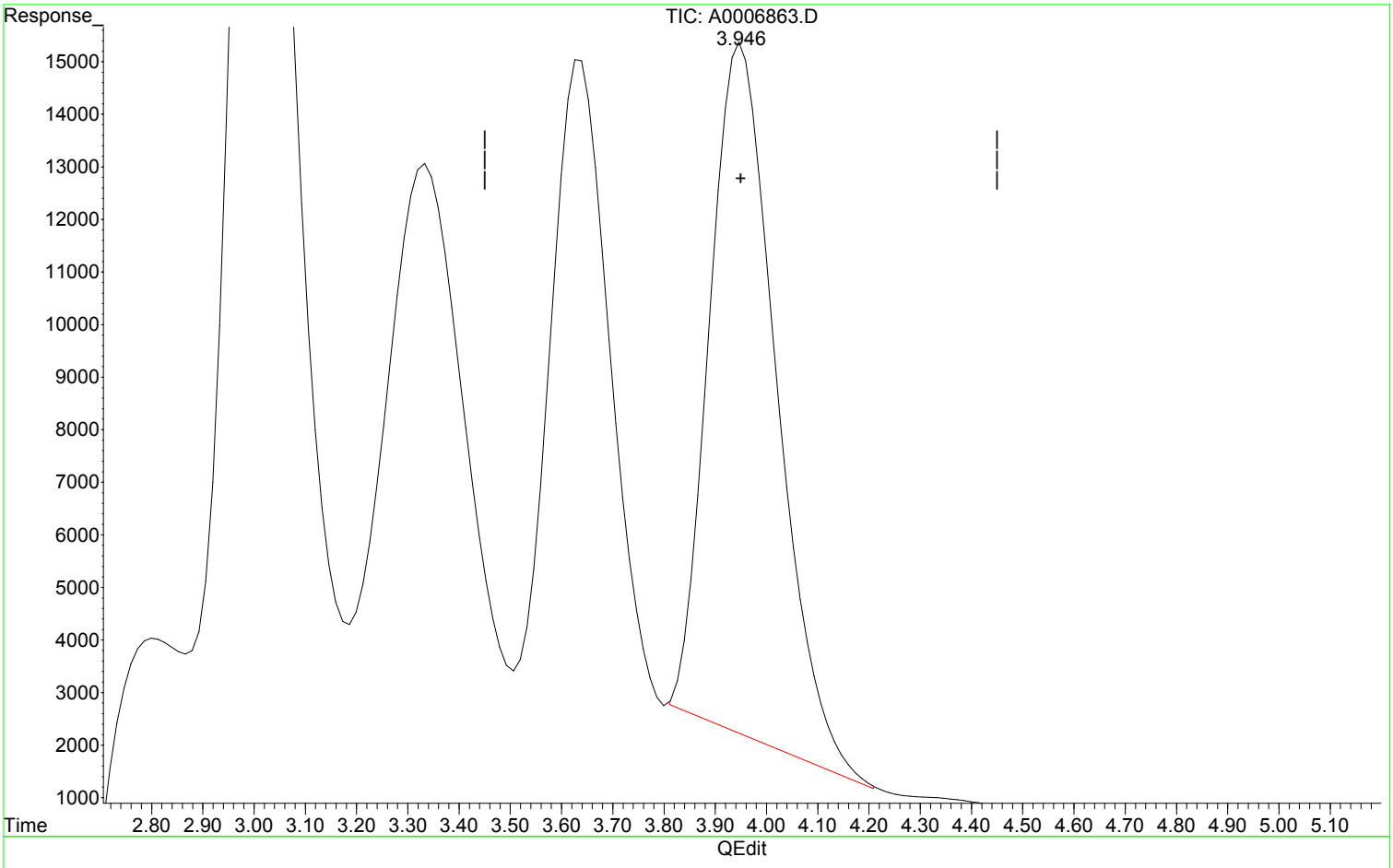
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006863.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 21:20:00
Operator : AFelser
Sample : R2404674-011MS
Misc :
ALS Vial : 45 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:43:56 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.946min 20.469 ppm m

response 1195564

Manual Integration:

After

Poor integration.

06/10/24

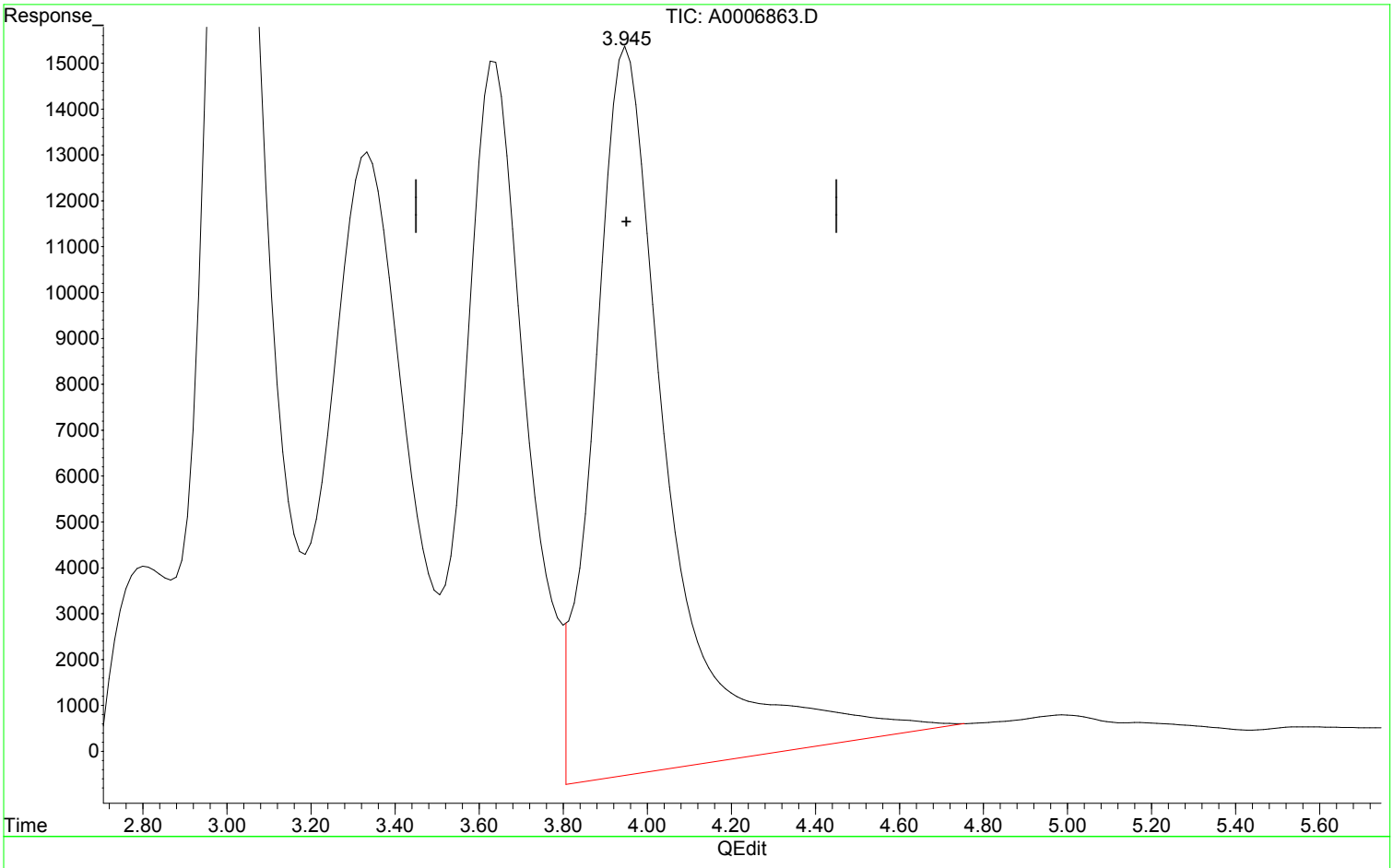
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006863.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 21:20:00
Operator : AFelser
Sample : R2404674-011MS
Misc :
ALS Vial : 45 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:43:56 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.951min 34.004 ppm

response 1986200

Manual Integration:

Before

06/10/24

(+) = Expected Retention Time

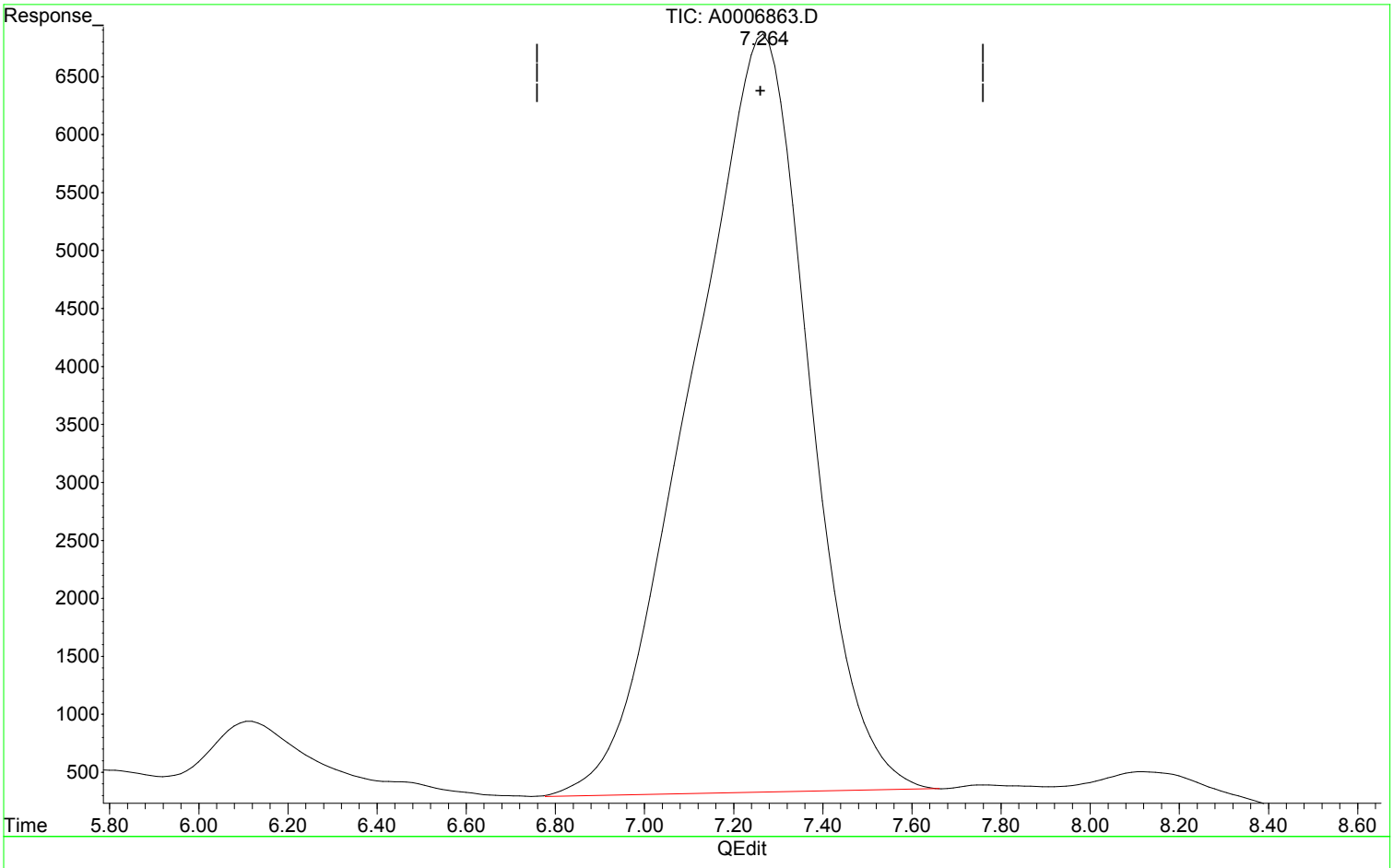
1st 06/10/24
2nd 06/12/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006863.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 21:20:00
Operator : AFelser
Sample : R2404674-011MS
Misc :
ALS Vial : 45 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:43:56 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.264min 21.427 ppm m

response 1200650

Manual Integration:

After

Poor integration.

06/10/24

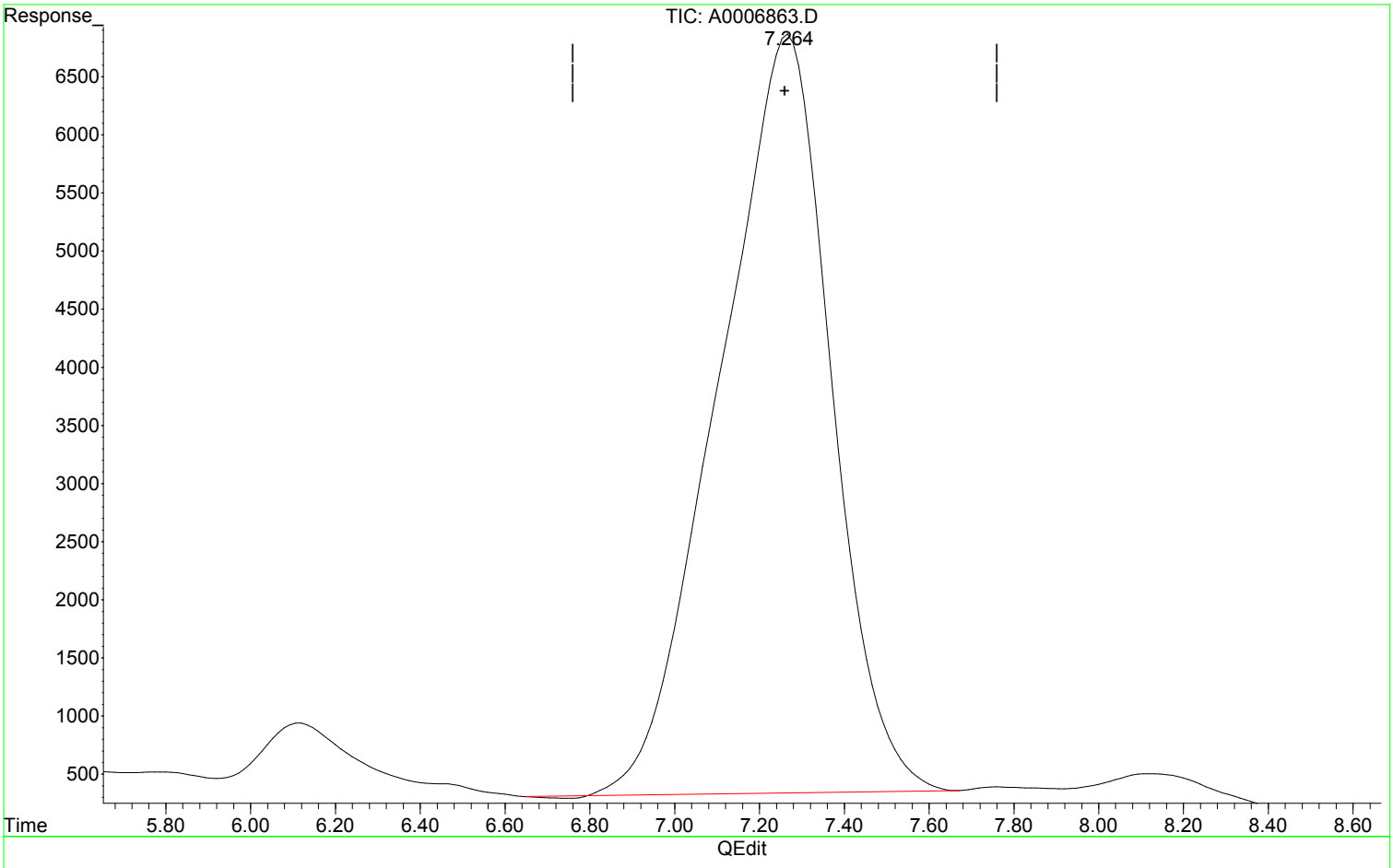
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006863.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 21:20:00
Operator : AFelser
Sample : R2404674-011MS
Misc :
ALS Vial : 45 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:43:56 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.269min 21.304 ppm

response 1193755

Manual Integration:

Before

06/10/24

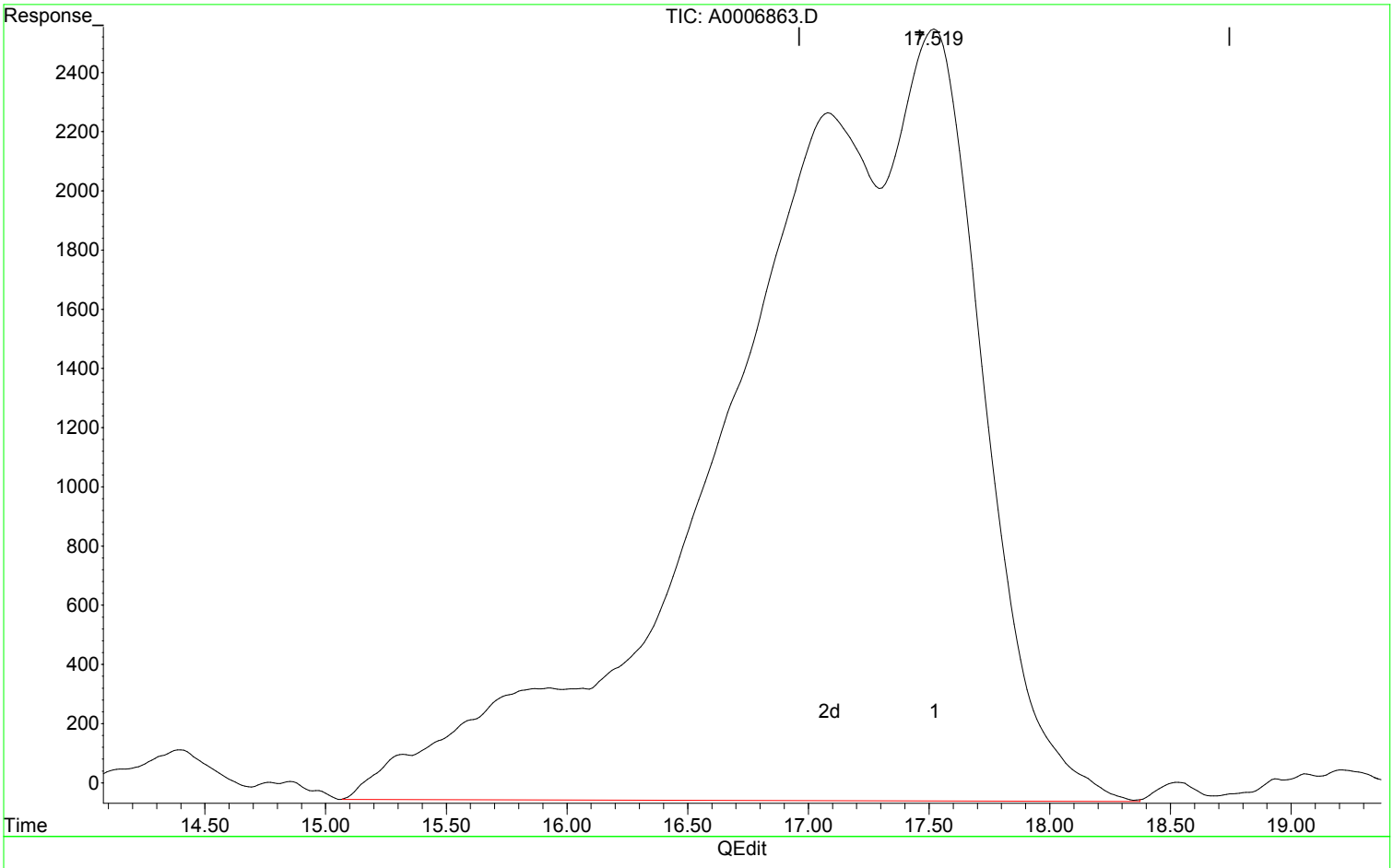
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006863.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 21:20:00
Operator : AFelser
Sample : R2404674-011MS
Misc :
ALS Vial : 45 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:43:56 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.519min 22.525 ppm m

response 1843028

Manual Integration:

After

Poor integration.

06/10/24

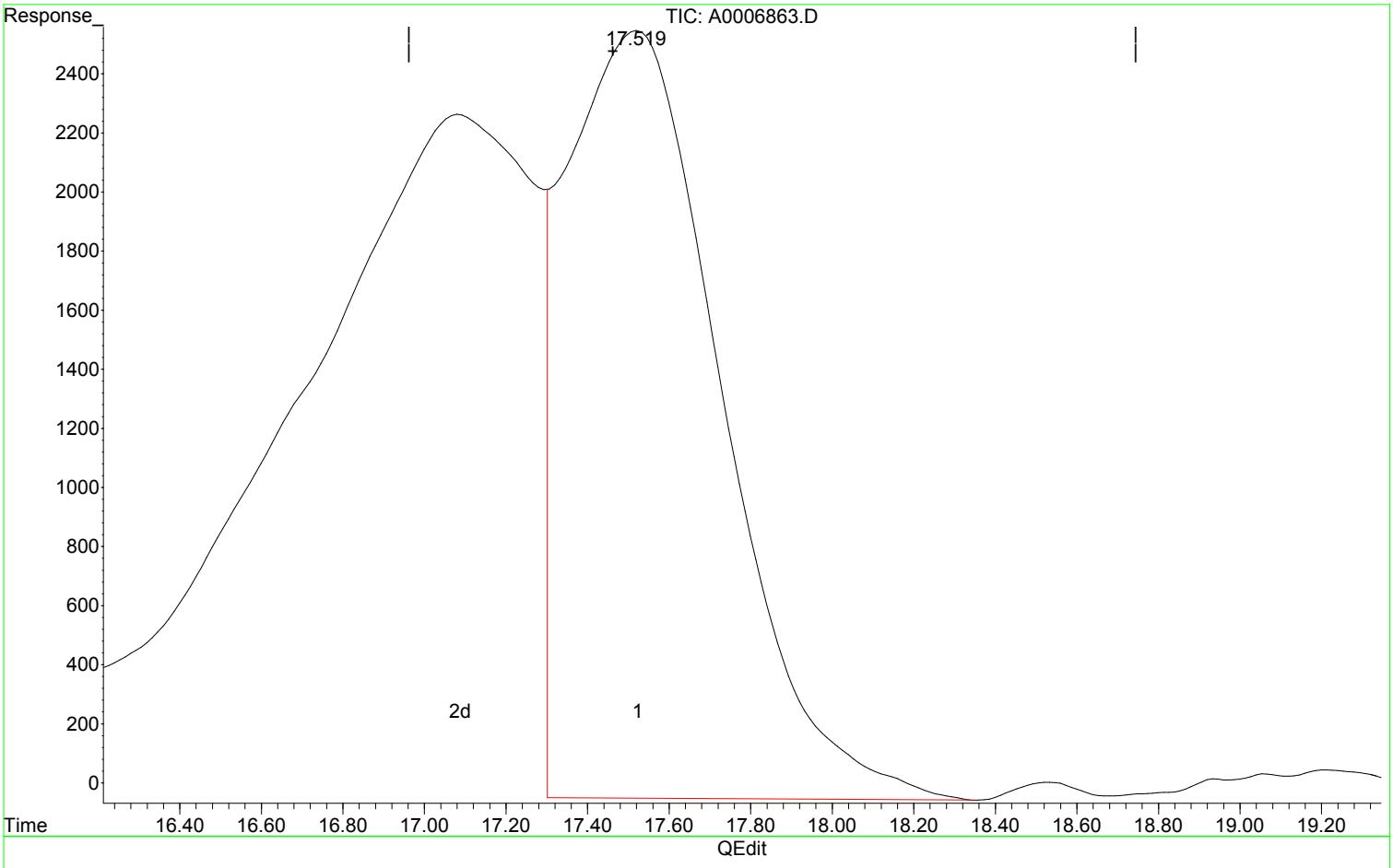
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006863.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 21:20:00
Operator : AFelser
Sample : R2404674-011MS
Misc :
ALS Vial : 45 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:43:56 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.524min 8.507 ppm

response 696085

Manual Integration:

Before

06/10/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006863.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 21:20:00
Operator : AFelser
Sample : R2404674-011MS
Misc :
ALS Vial : 45 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:43:56 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.009	1904422	21.048	ppm	m
2) T	Pyruvic acid	3.333	841231	1.872	ppm	m
3) T	Lactic Acid	3.632	932276	19.821	ppm	m
4) T	Acetic Acid	3.946	1195564	20.469	ppm	m
5) T	Propionic Acid	7.264	1200650	21.427	ppm	m
6) T	Butyric Acid	17.519	1843028	22.525	ppm	m

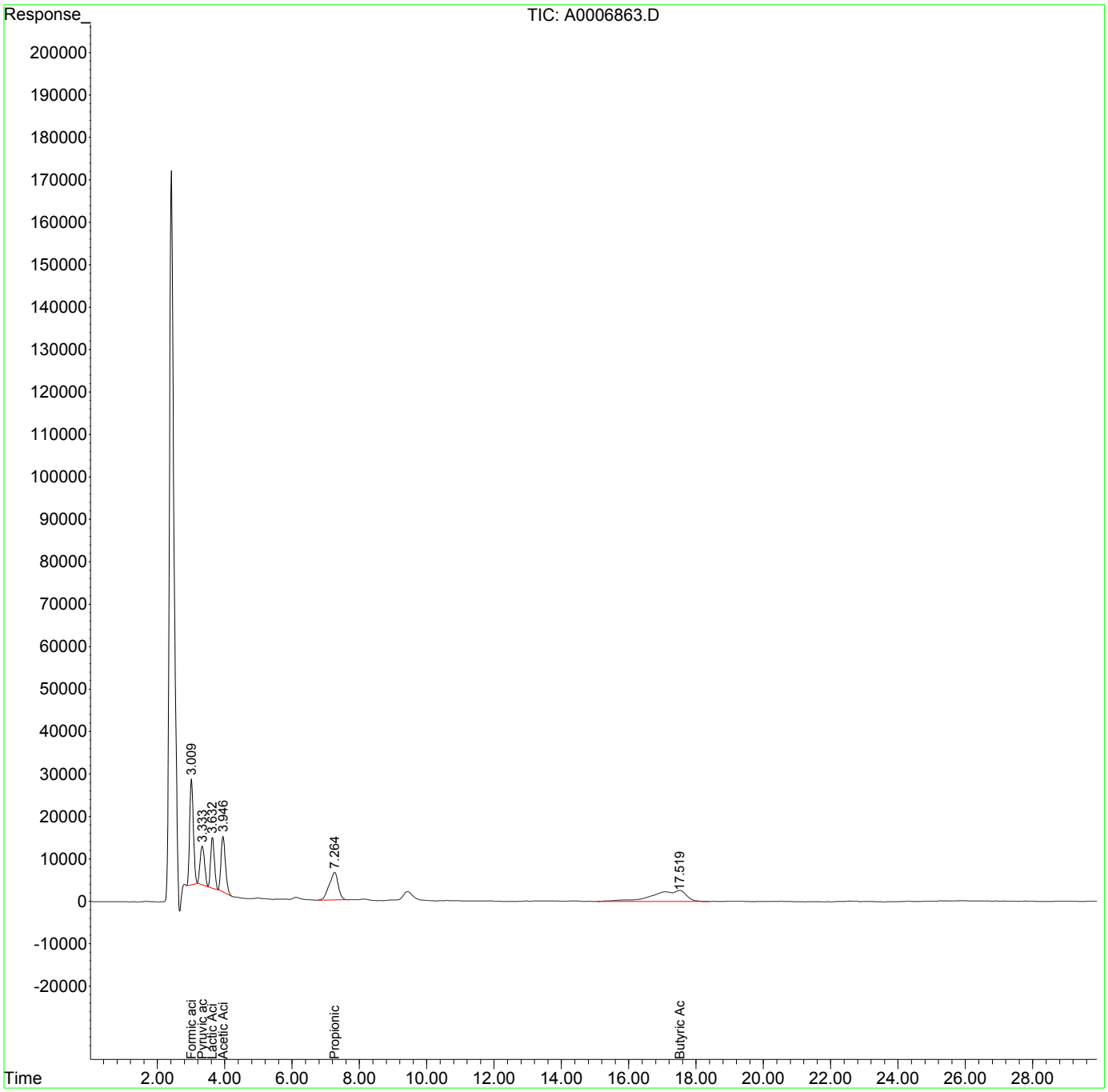
(f)=RT Delta > 1/2 Window (m)=manual int.

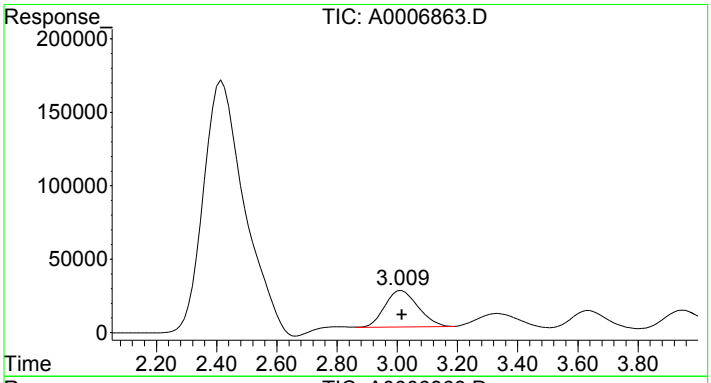
1st 06/10/24
2nd 06/12/24

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006863.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 21:20:00
Operator : AFelser
Sample : R2404674-011MS
Misc :
ALS Vial : 45 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:43:56 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

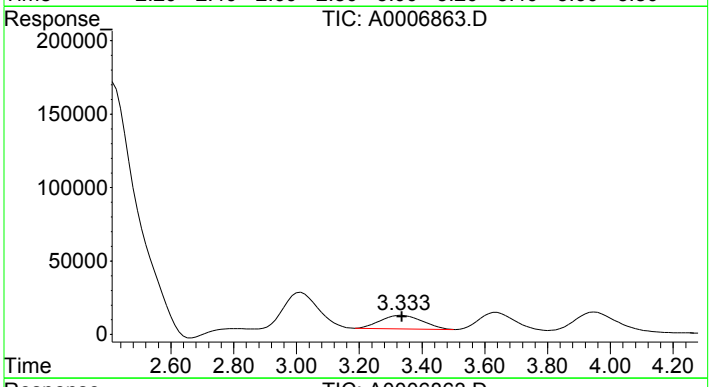
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





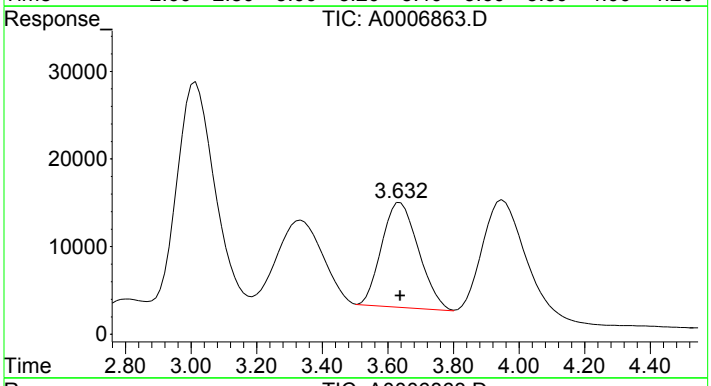
#1 Formic acid

R.T.: 3.009 min
Delta R.T.: -0.006 min
Response: 1904422
Conc: 21.05 ppm m



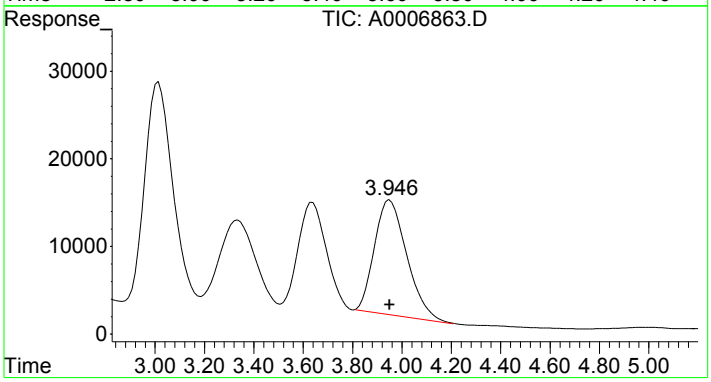
#2 Pyruvic acid

R.T.: 3.333 min
Delta R.T.: -0.003 min
Response: 841231
Conc: 1.87 ppm m



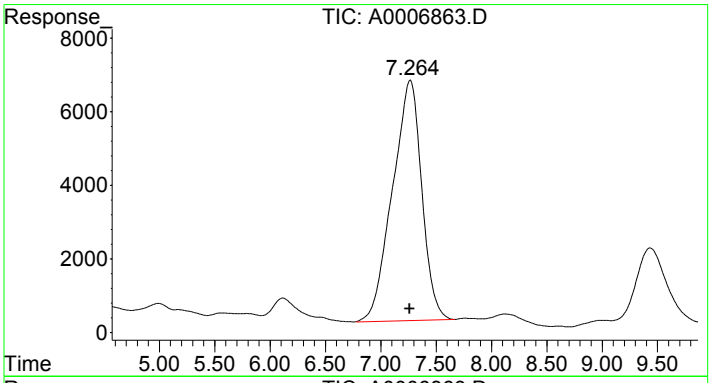
#3 Lactic Acid

R.T.: 3.632 min
Delta R.T.: -0.006 min
Response: 932276
Conc: 19.82 ppm m



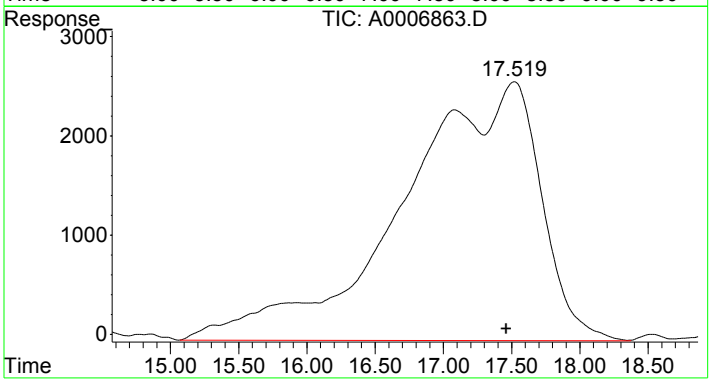
#4 Acetic Acid

R.T.: 3.946 min
Delta R.T.: -0.005 min
Response: 1195564
Conc: 20.47 ppm m



#5 Propionic Acid

R.T.: 7.264 min
Delta R.T.: 0.004 min
Response: 1200650
Conc: 21.43 ppm m



#6 Butyric Acid

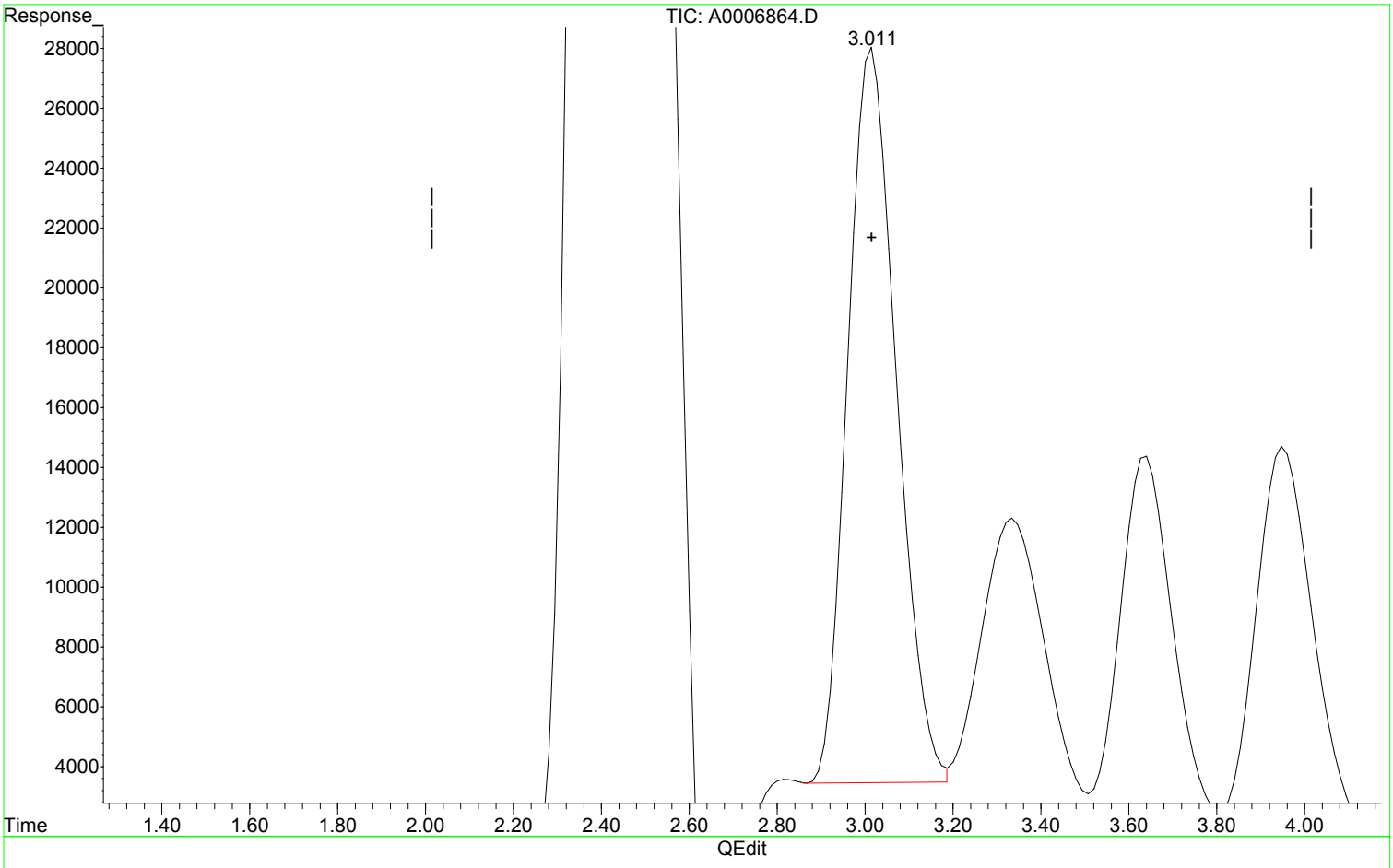
R.T.: 17.519 min
Delta R.T.: 0.056 min
Response: 1843028
Conc: 22.53 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006864.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 21:52:24
Operator : AFelser
Sample : R2404674-011DMS
Misc :
ALS Vial : 46 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:43:58 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)

3.011min 20.881 ppm m

response 1889344

Manual Integration:

After

Poor integration.

06/10/24

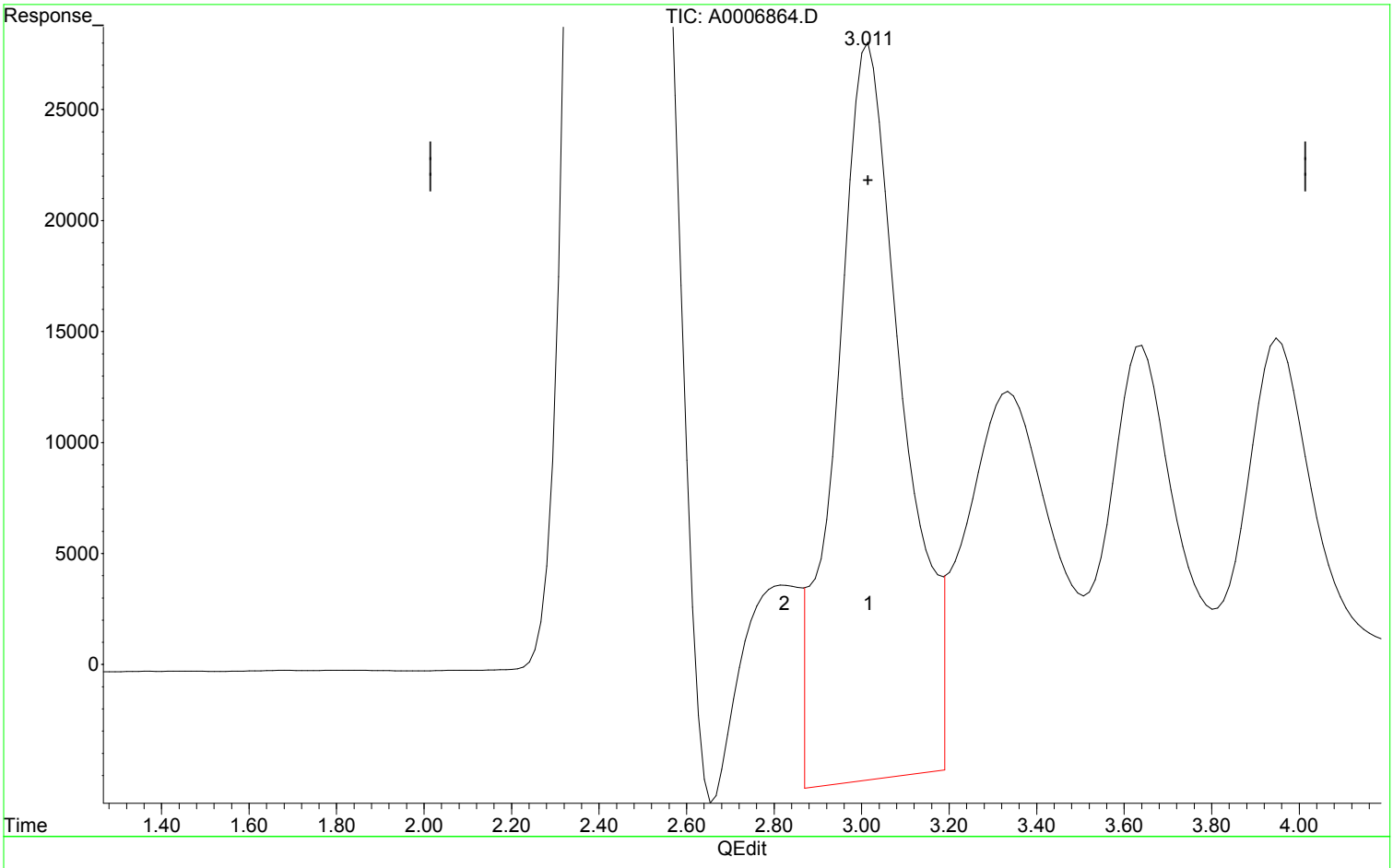
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006864.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 21:52:24
Operator : AFelser
Sample : R2404674-011DMS
Misc :
ALS Vial : 46 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:43:58 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)

3.017min 39.259 ppm

response 3552118

Manual Integration:

Before

06/10/24

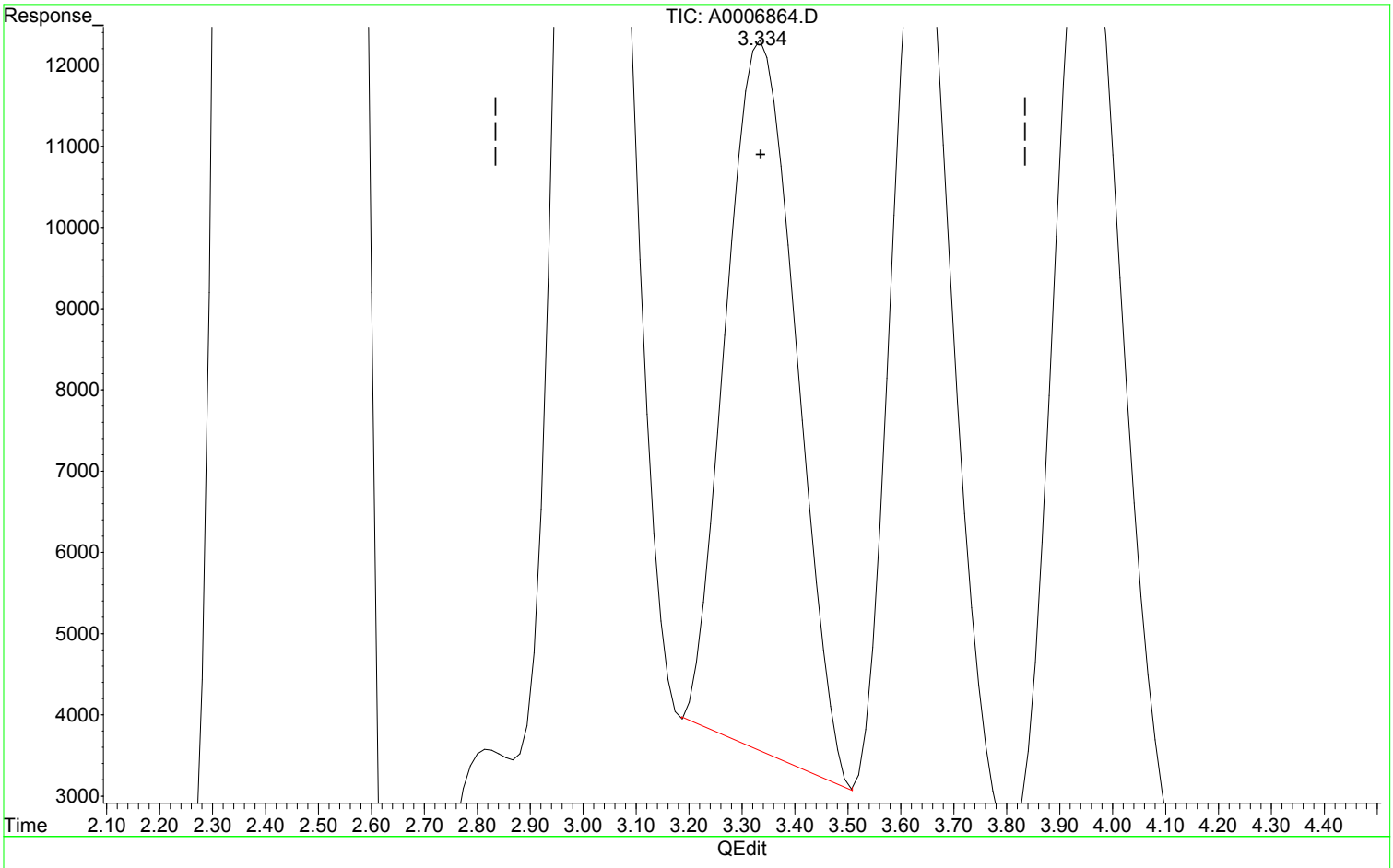
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006864.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 21:52:24
Operator : AFelser
Sample : R2404674-011DMS
Misc :
ALS Vial : 46 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:43:58 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(2) Pyruvic acid (T)

3.334min 1.800 ppm m

response 808931

Manual Integration:

After

Poor integration.

06/10/24

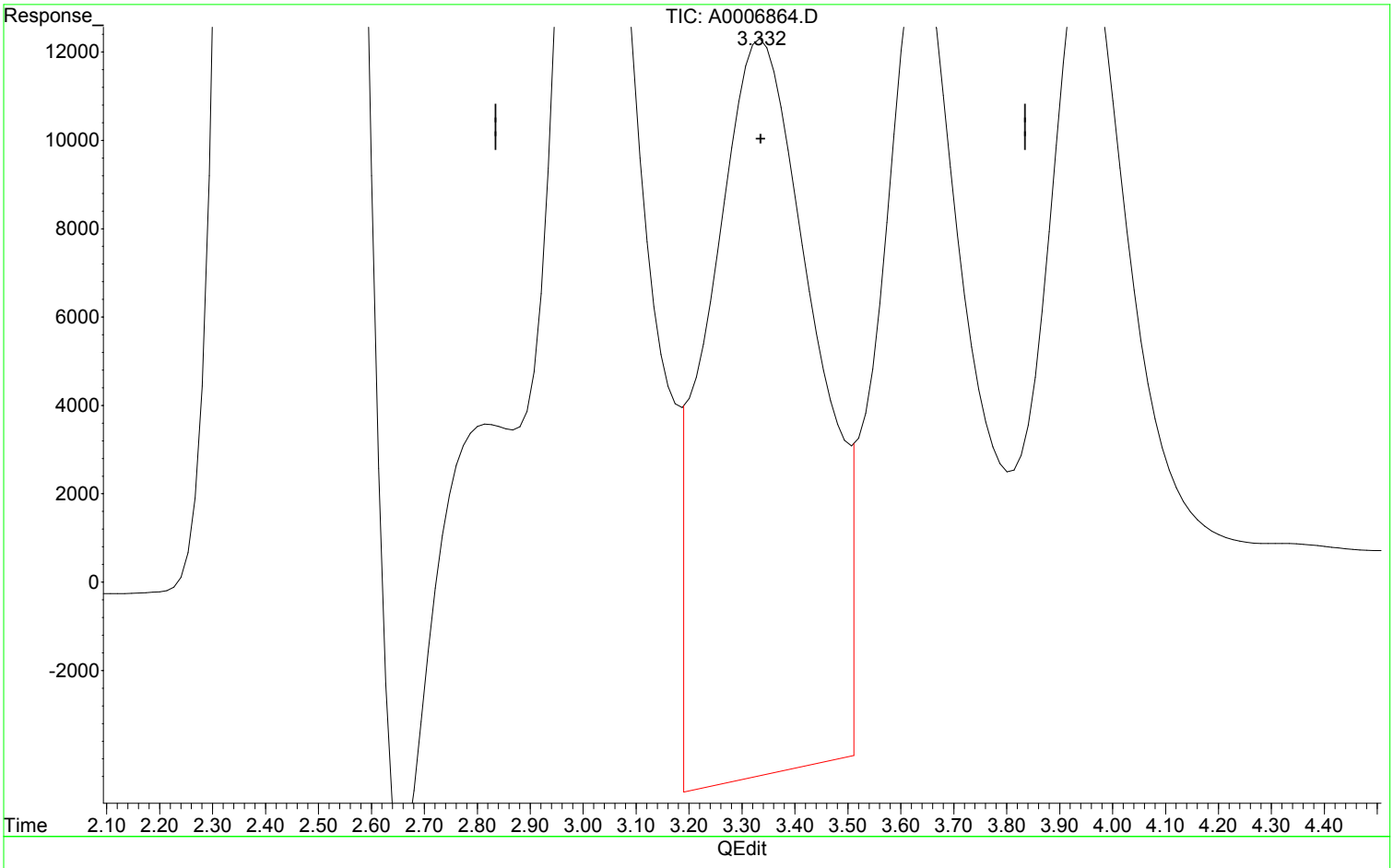
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006864.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 21:52:24
Operator : AFelser
Sample : R2404674-011DMS
Misc :
ALS Vial : 46 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:43:58 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(2) Pyruvic acid (T)

3.338min 5.169 ppm

response 2323059

Manual Integration:

Before

06/10/24

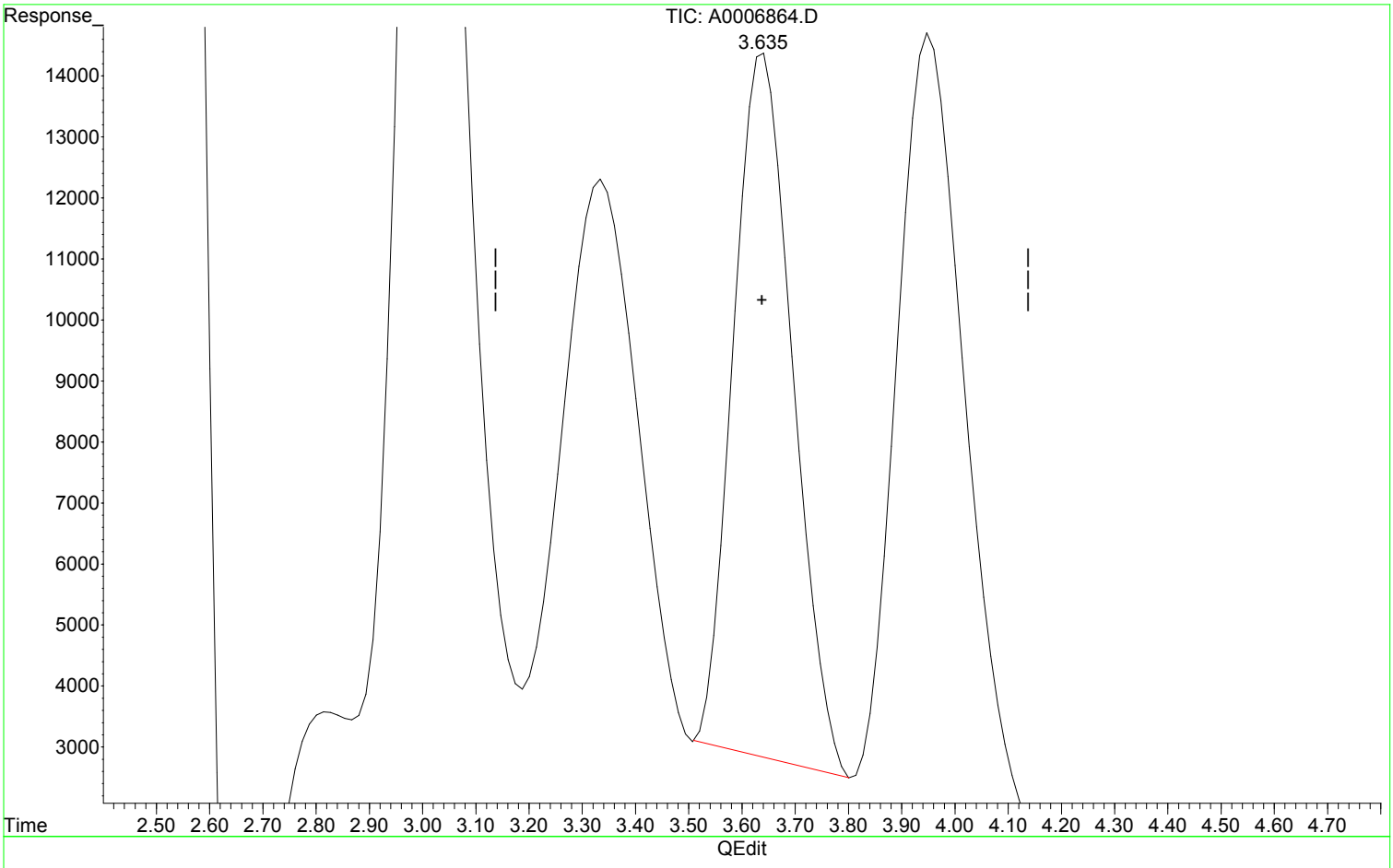
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006864.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 21:52:24
Operator : AFelser
Sample : R2404674-011DMS
Misc :
ALS Vial : 46 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:43:58 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)

3.635min 19.000 ppm m

response 893660

Manual Integration:

After

Poor integration.

06/10/24

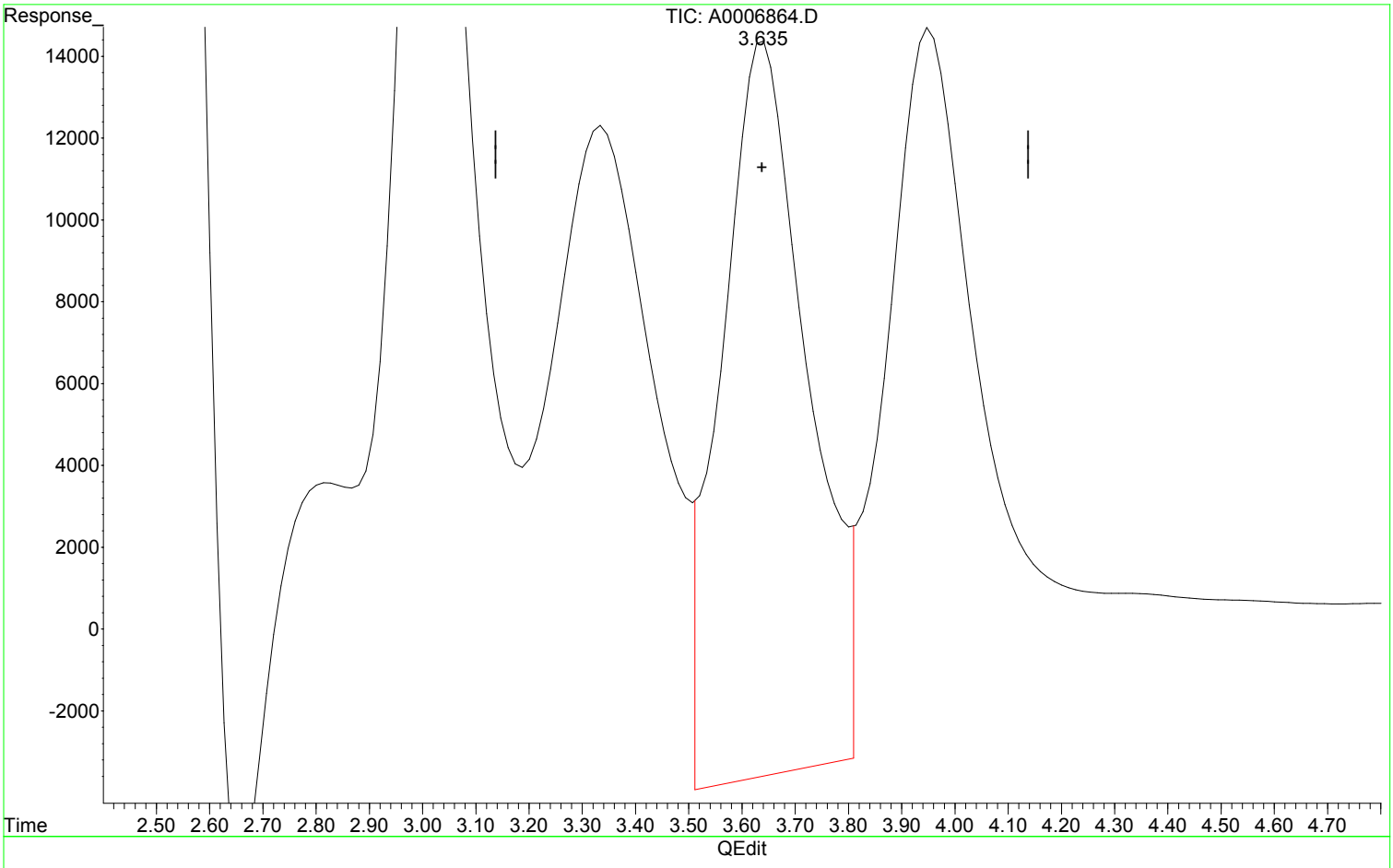
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006864.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 21:52:24
Operator : AFelser
Sample : R2404674-011DMS
Misc :
ALS Vial : 46 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:43:58 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)

3.641min 43.143 ppm

response 2029182

Manual Integration:

Before

06/10/24

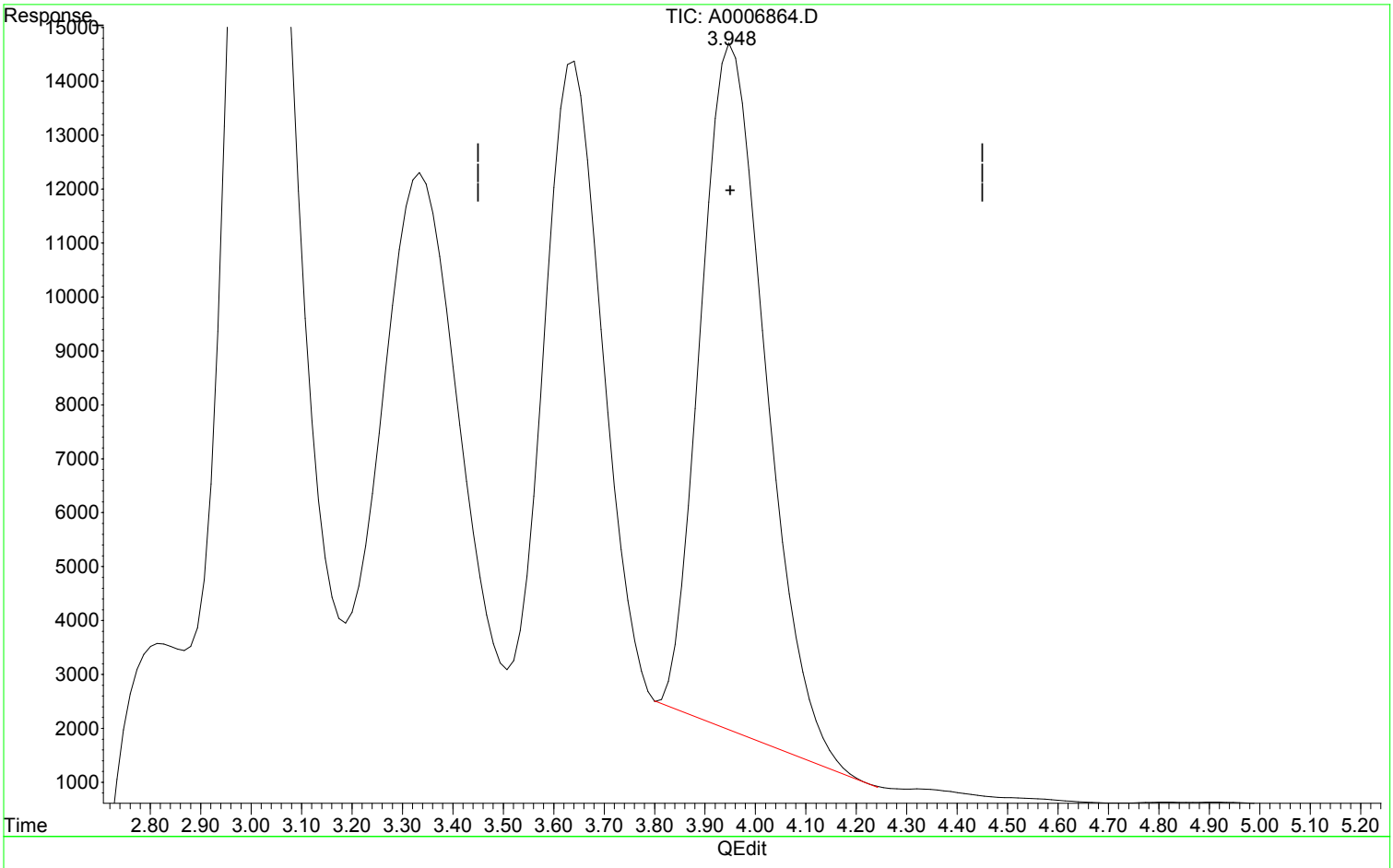
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006864.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 21:52:24
Operator : AFelser
Sample : R2404674-011DMS
Misc :
ALS Vial : 46 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:43:58 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.948min 19.704 ppm m

response 1150891

Manual Integration:

After

Poor integration.

06/10/24

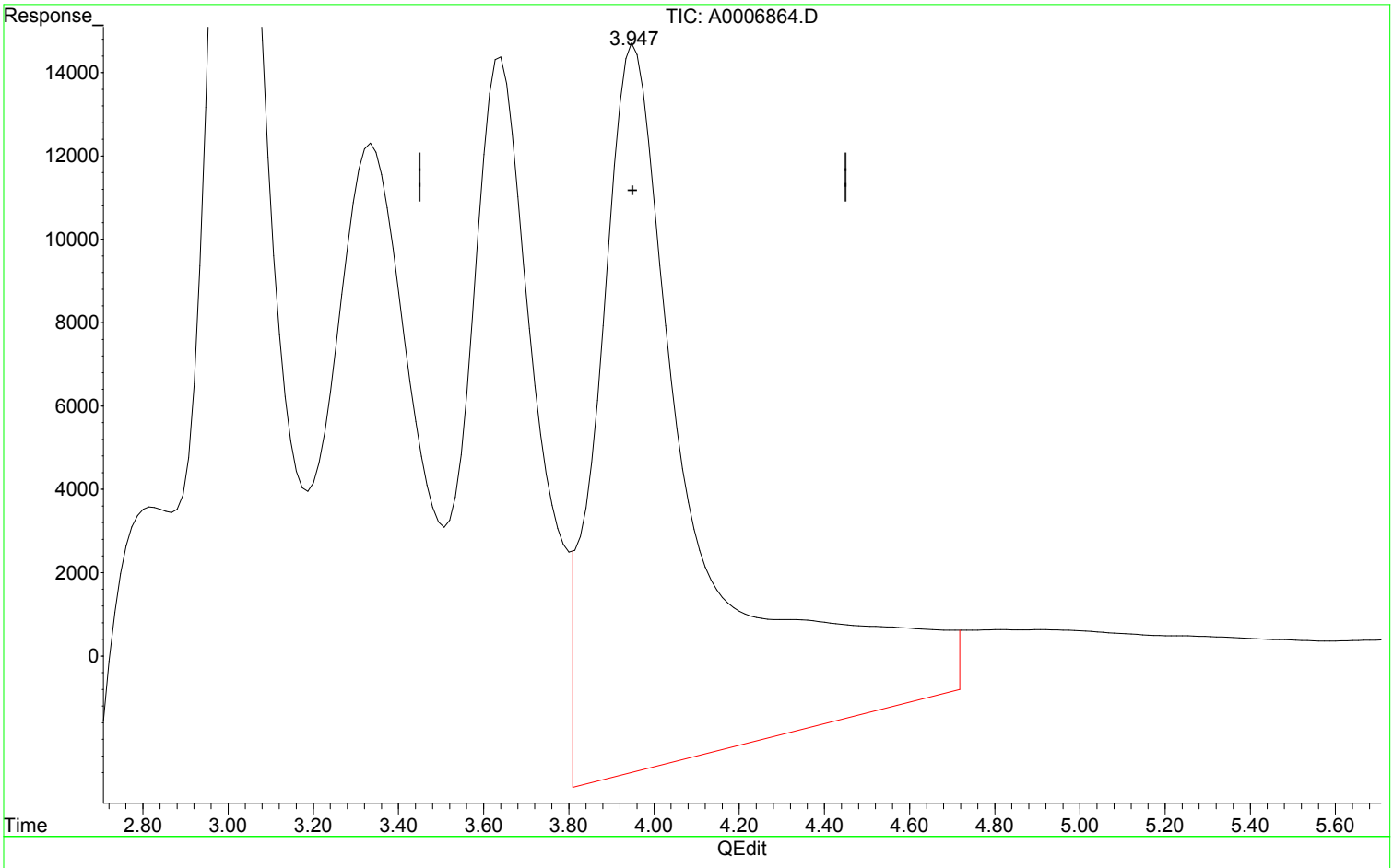
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006864.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 21:52:24
Operator : AFelser
Sample : R2404674-011DMS
Misc :
ALS Vial : 46 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:43:58 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.954min 49.444 ppm

response 2888030

Manual Integration:

Before

06/10/24

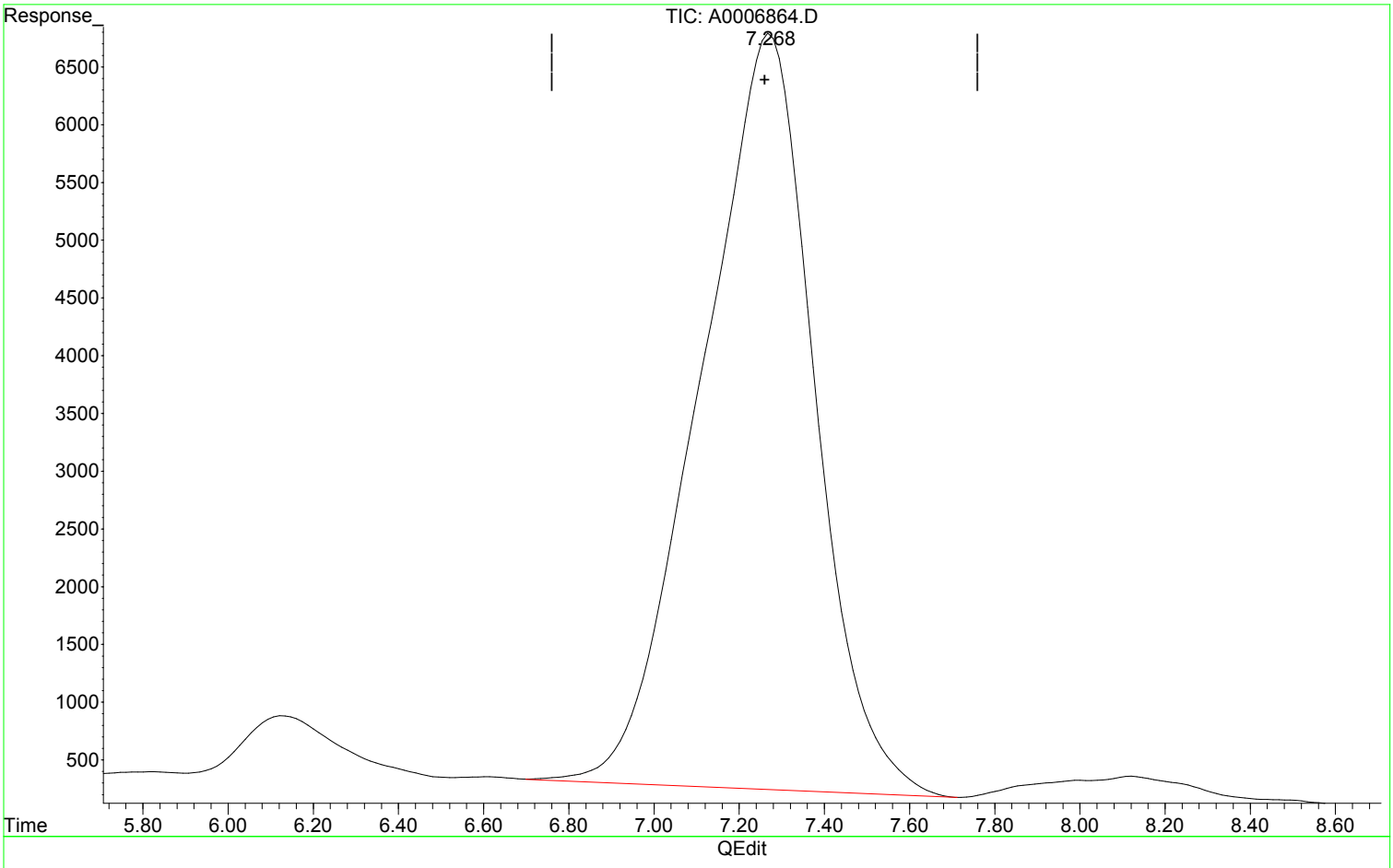
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006864.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 21:52:24
Operator : AFelser
Sample : R2404674-011DMS
Misc :
ALS Vial : 46 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:43:58 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.268min 21.595 ppm m

response 1210061

Manual Integration:

After

Poor integration.

06/10/24

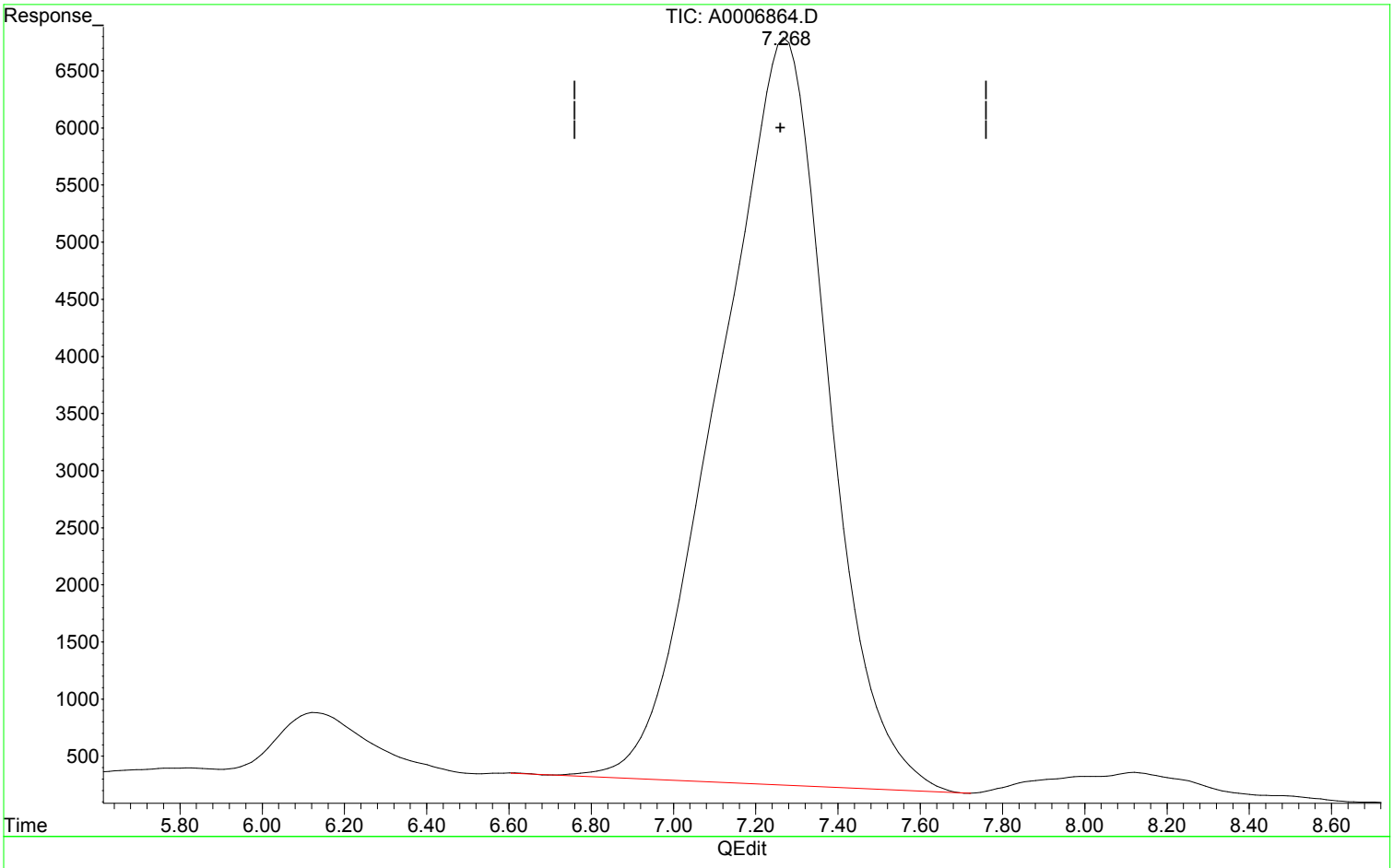
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006864.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 21:52:24
Operator : AFelser
Sample : R2404674-011DMS
Misc :
ALS Vial : 46 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:43:58 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.273min 21.558 ppm

response 1208024

Manual Integration:

Before

06/10/24

(+) = Expected Retention Time

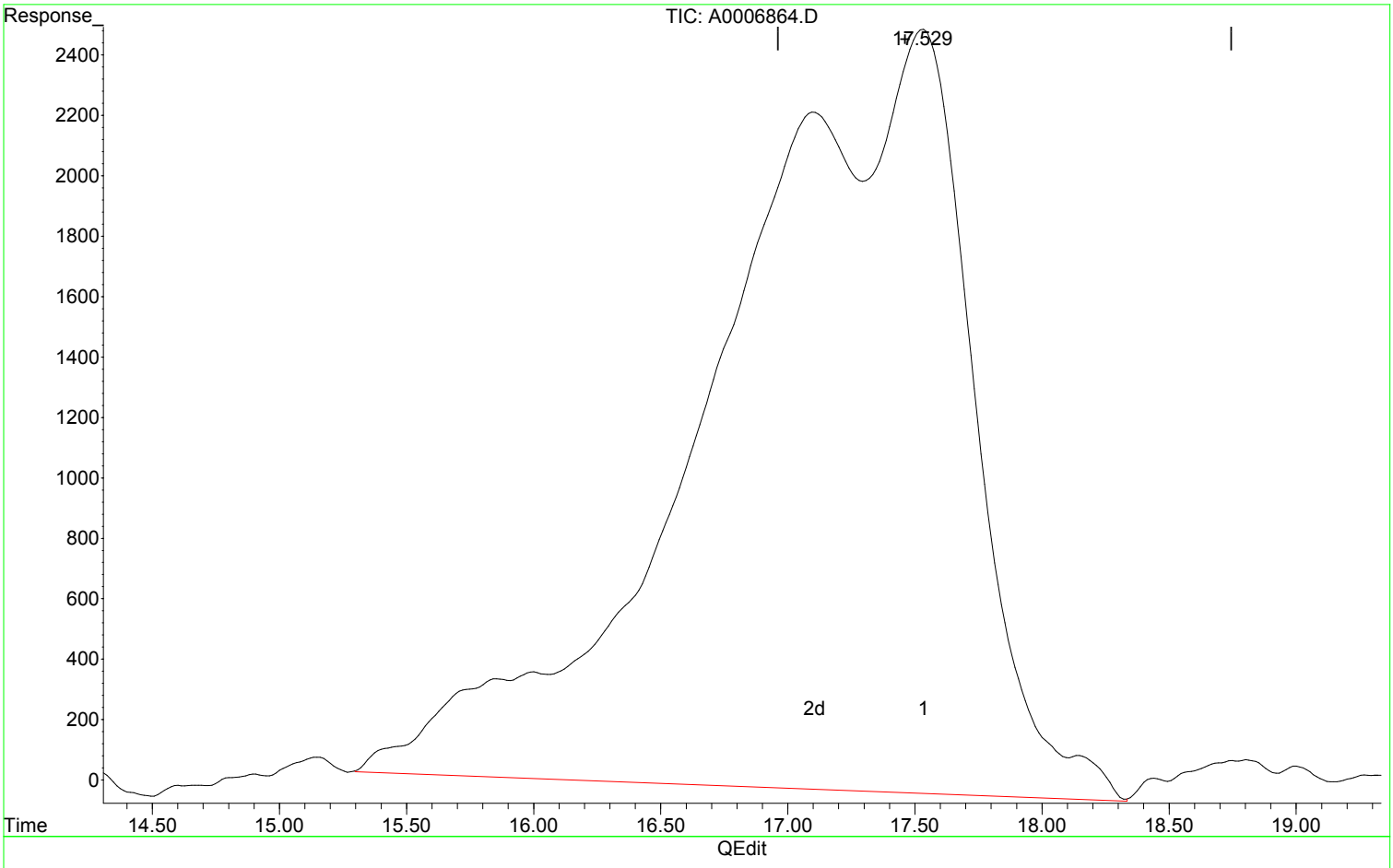
Quantitation Report (Qedit)

1st 06/10/24
2nd 06/12/24

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006864.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 21:52:24
Operator : AFelser
Sample : R2404674-011DMS
Misc :
ALS Vial : 46 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:43:58 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.529min 21.310 ppm m

response 1743632

Manual Integration:

After

Poor integration.

06/10/24

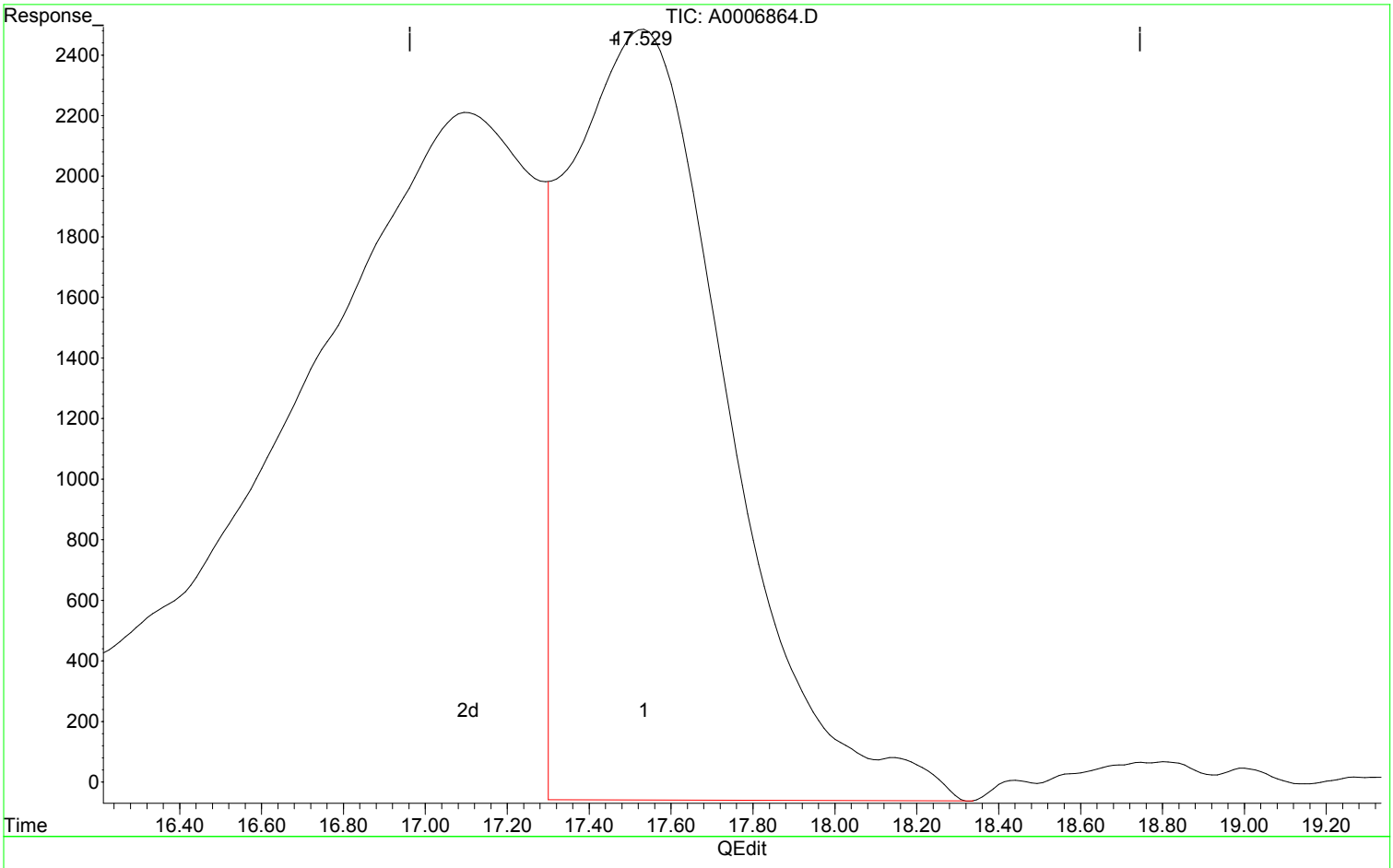
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006864.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 21:52:24
Operator : AFelser
Sample : R2404674-011DMS
Misc :
ALS Vial : 46 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:43:58 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.534min 8.524 ppm

response 697443

Manual Integration:

Before

06/10/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006864.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 21:52:24
Operator : AFelser
Sample : R2404674-011DMS
Misc :
ALS Vial : 46 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:43:58 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.011	1889344	20.881	ppm	m
2) T	Pyruvic acid	3.334	808931	1.800	ppm	m
3) T	Lactic Acid	3.635	893660	19.000	ppm	m
4) T	Acetic Acid	3.948	1150891	19.704	ppm	m
5) T	Propionic Acid	7.268	1210061	21.595	ppm	m
6) T	Butyric Acid	17.529	1743632	21.310	ppm	m

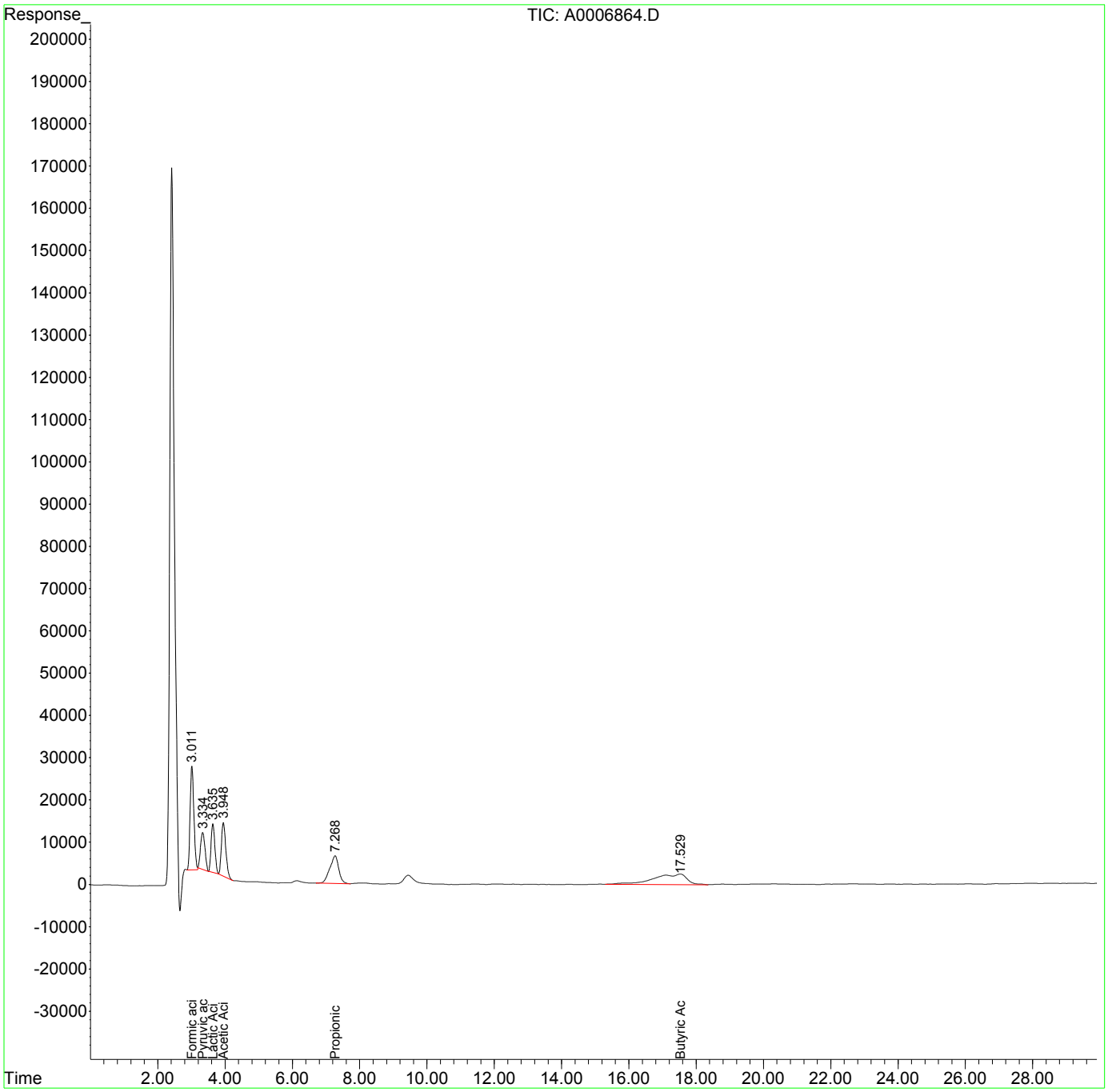
(f)=RT Delta > 1/2 Window (m)=manual int.

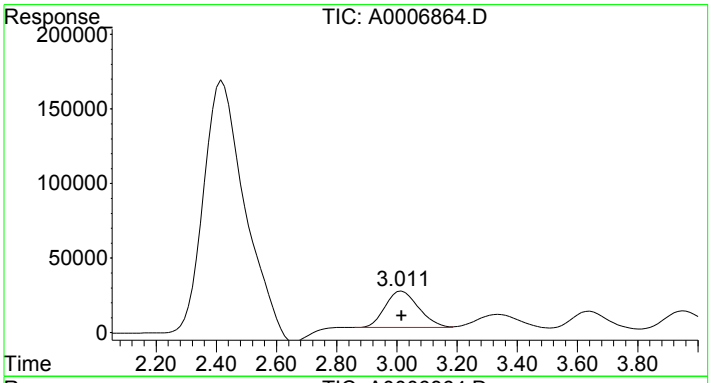
1st 06/10/24
2nd 06/12/24

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006864.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 21:52:24
Operator : AFelser
Sample : R2404674-011DMS
Misc :
ALS Vial : 46 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:43:58 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

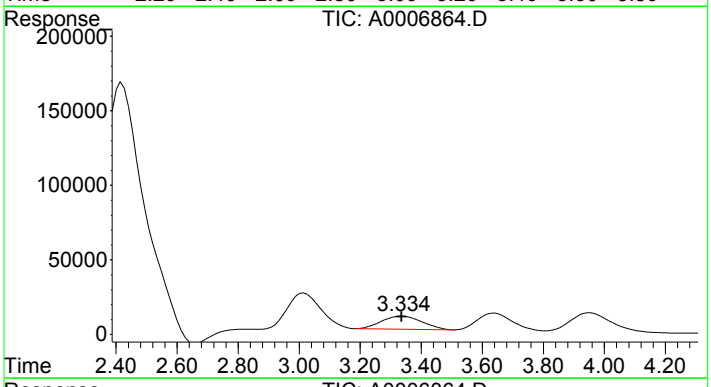
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





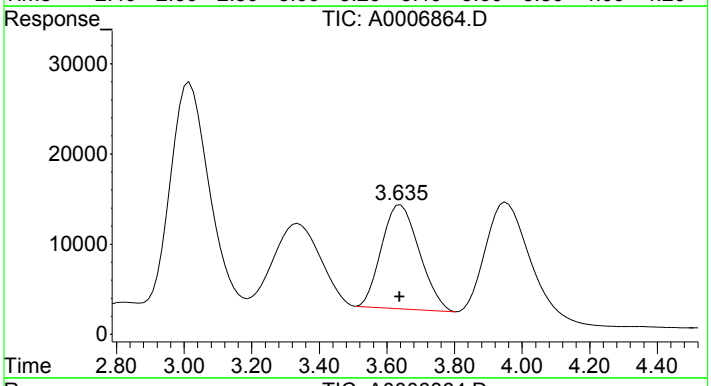
#1 Formic acid

R.T.: 3.011 min
Delta R.T.: -0.004 min
Response: 1889344
Conc: 20.88 ppm m



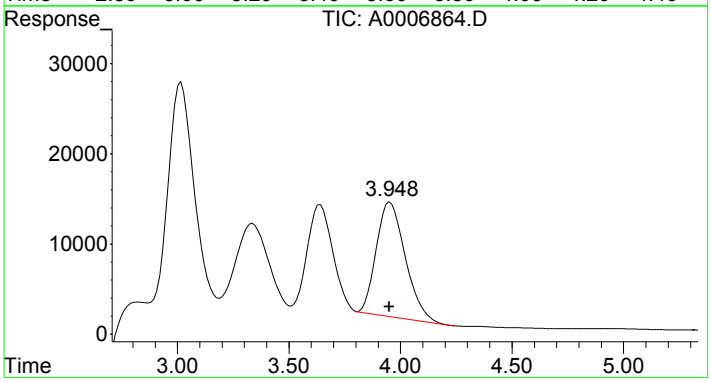
#2 Pyruvic acid

R.T.: 3.334 min
Delta R.T.: -0.002 min
Response: 808931
Conc: 1.80 ppm m



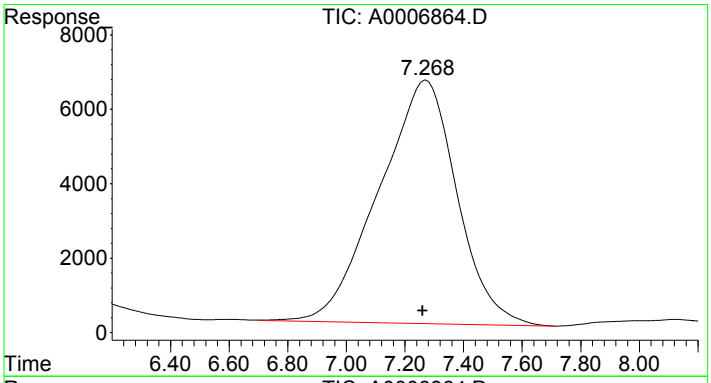
#3 Lactic Acid

R.T.: 3.635 min
Delta R.T.: -0.003 min
Response: 893660
Conc: 19.00 ppm m



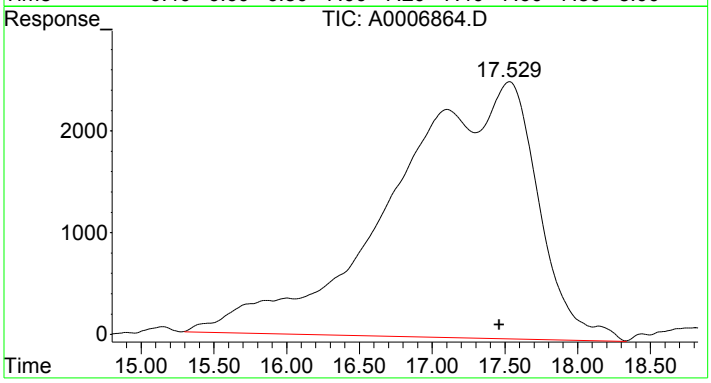
#4 Acetic Acid

R.T.: 3.948 min
Delta R.T.: -0.002 min
Response: 1150891
Conc: 19.70 ppm m



#5 Propionic Acid

R.T.: 7.268 min
Delta R.T.: 0.008 min
Response: 1210061
Conc: 21.59 ppm m



#6 Butyric Acid

R.T.: 17.529 min
Delta R.T.: 0.067 min
Response: 1743632
Conc: 21.31 ppm m

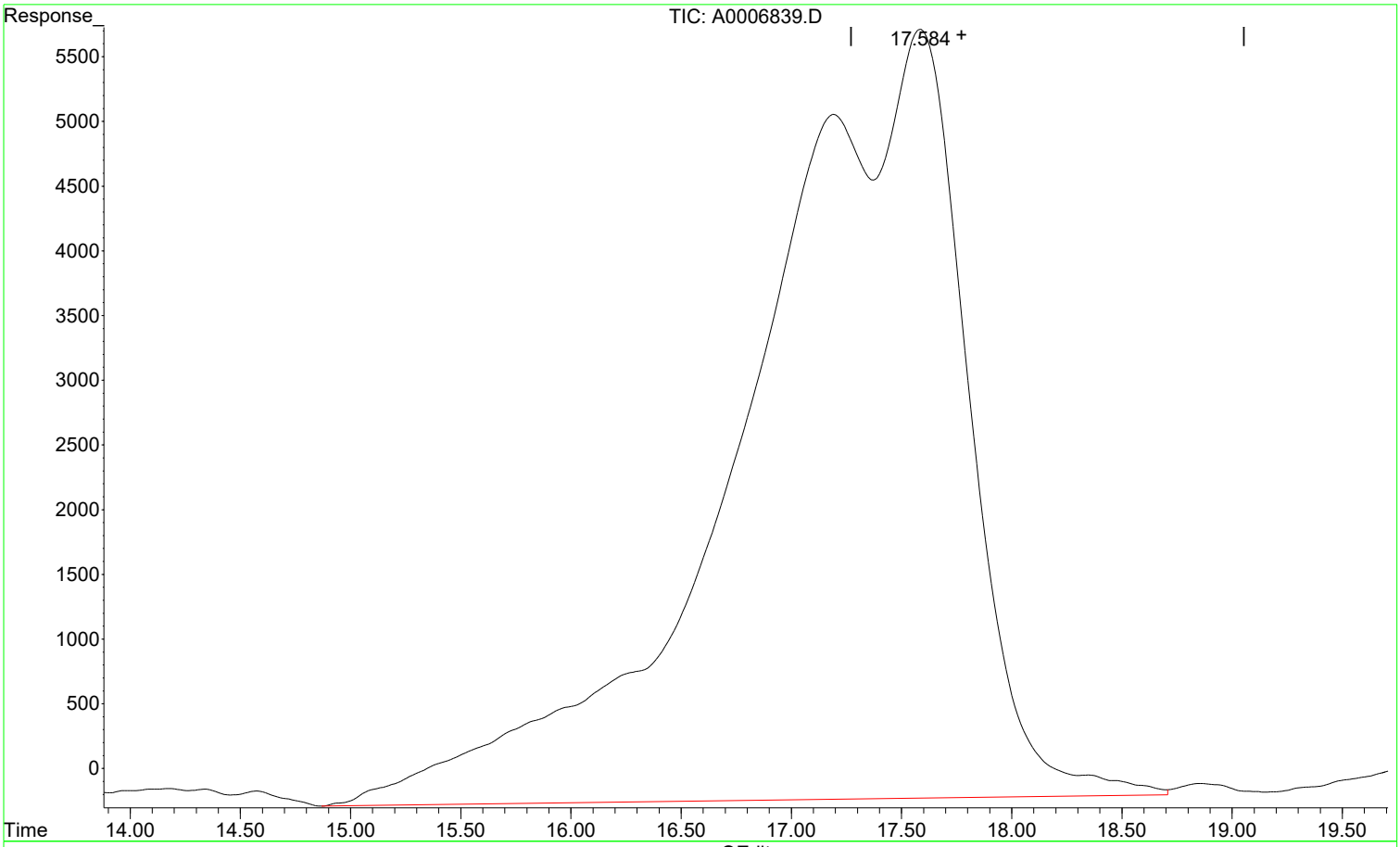
1st 06/10/24
2nd 06/12/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006839.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 08:23:56
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 16:34:27 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:13:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.584min 49.987 ppm m

response 4089947

Manual Integration:

After

Poor integration.

06/07/24

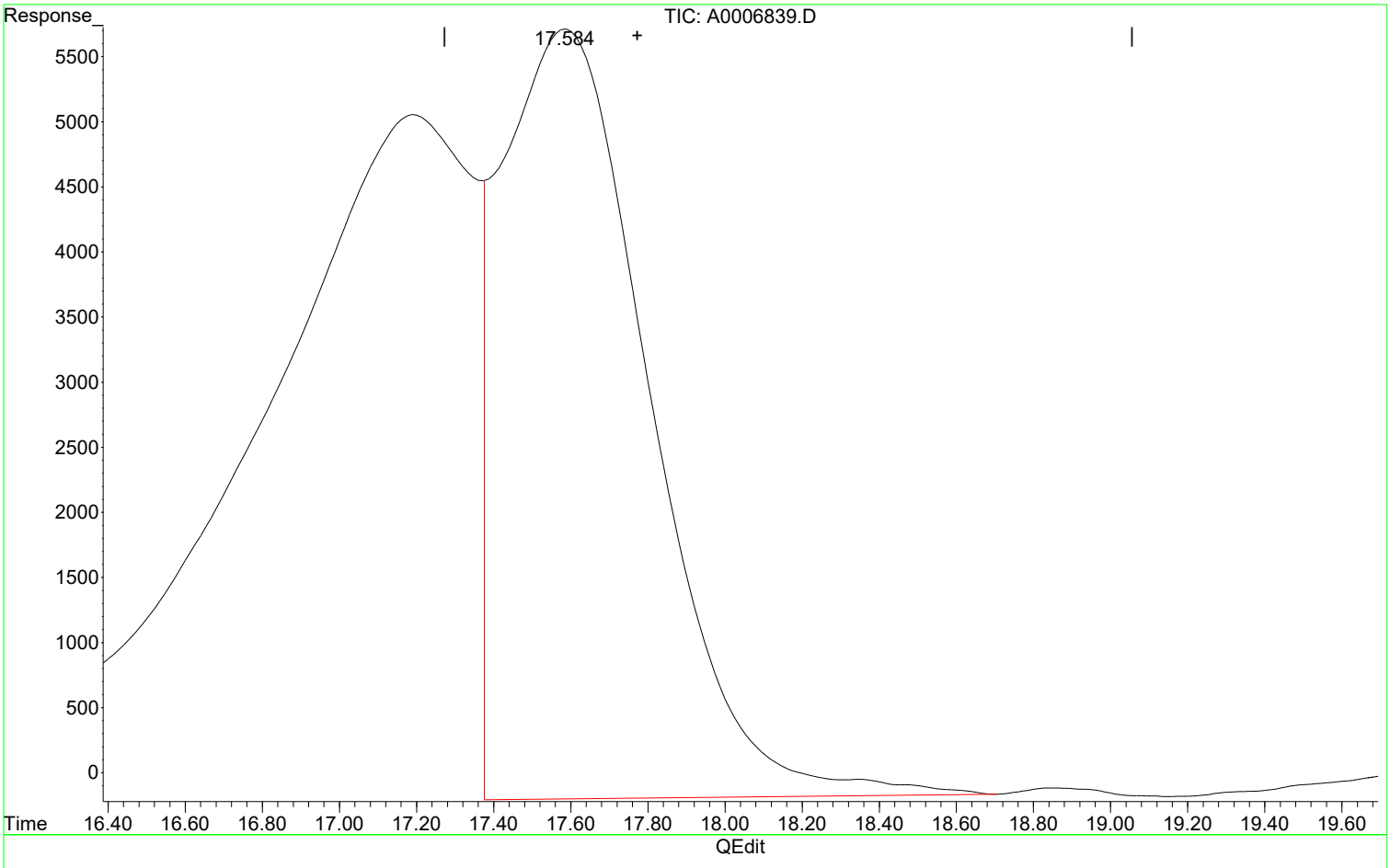
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006839.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 08:23:56
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 16:34:27 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:13:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.590min 19.578 ppm

response 1601882

Manual Integration:

Before

06/07/24

(+) = Expected Retention Time

1st 06/10/24
2nd 06/12/24

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006839.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 08:23:56
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 16:34:27 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:13:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 t	Formic acid	50.000	52.109	-4.2	100	0.02
2 T	Pyruvic acid	5.000	5.517	-10.3	99	0.01
3 T	Lactic Acid	50.000	52.592	-5.2	99	0.01
4 T	Acetic Acid	50.000	51.889	-3.8	101	0.00
5 T	Propionic Acid	50.000	49.814	0.4	99	-0.03
6 T	Butyric Acid	50.000	49.987	0.0	106	-0.19

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006839.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 08:23:56
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 16:34:27 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:13:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.034	4714824	52.109	ppm	
2) T	Pyruvic acid	3.357	2479450	5.517	ppm	
3) T	Lactic Acid	3.662	2473619	52.592	ppm	
4) T	Acetic Acid	3.977	3030861	51.889	ppm	
5) T	Propionic Acid	7.311	2791294	49.814	ppm	
6) T	Butyric Acid	17.584	4089947	49.987	ppm	m

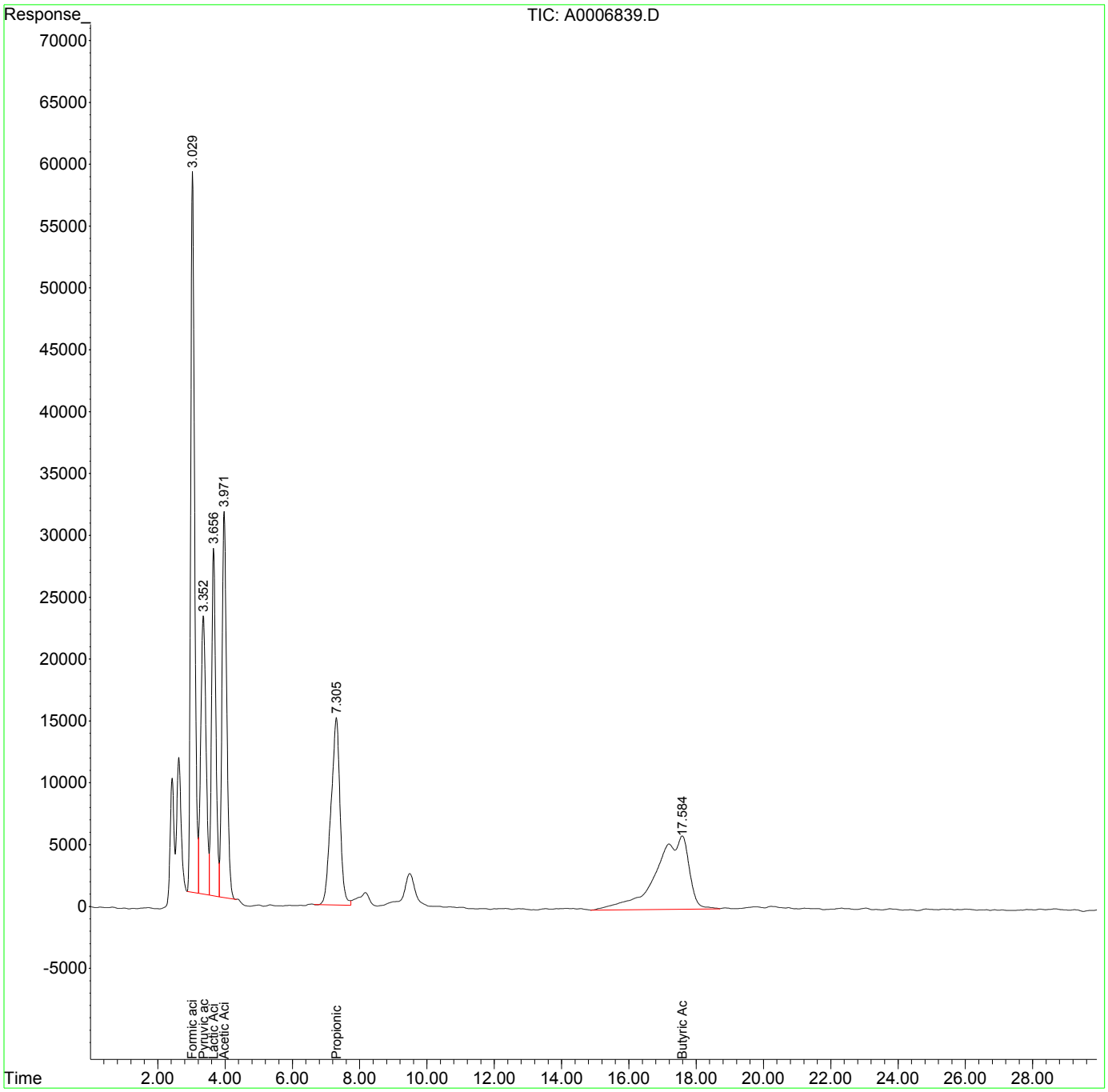
(f)=RT Delta > 1/2 Window (m)=manual int.

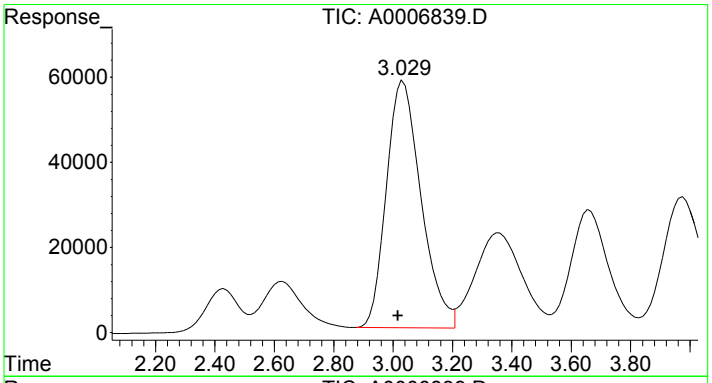
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006839.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 08:23:56
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 16:34:27 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:13:37 2024
Response via : Initial Calibration
Integrator: ChemStation

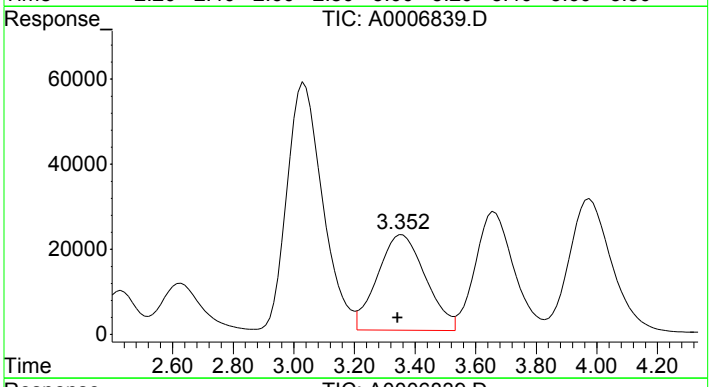
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





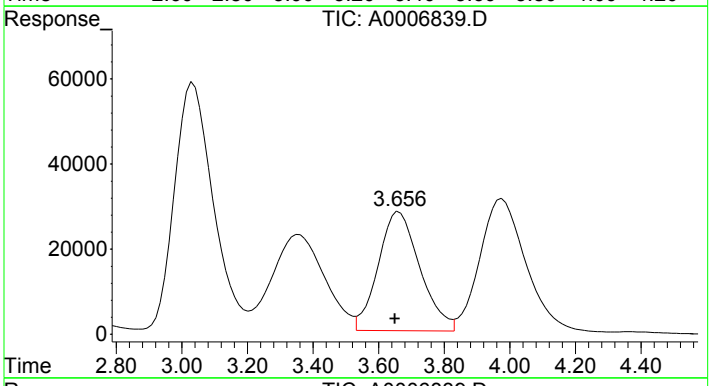
#1 Formic acid

R.T.: 3.034 min
Delta R.T.: 0.017 min
Response: 4714824
Conc: 52.11 ppm



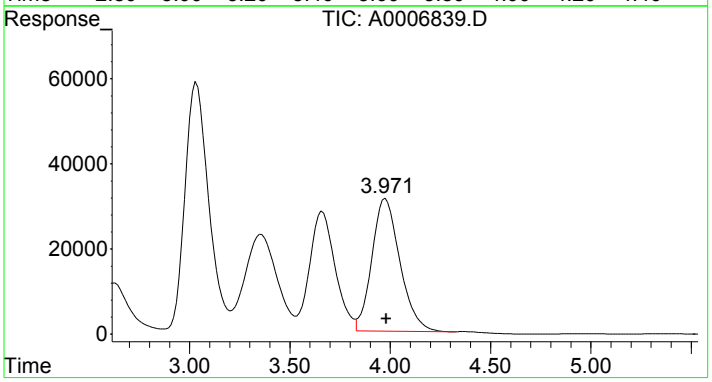
#2 Pyruvic acid

R.T.: 3.357 min
Delta R.T.: 0.014 min
Response: 2479450
Conc: 5.52 ppm



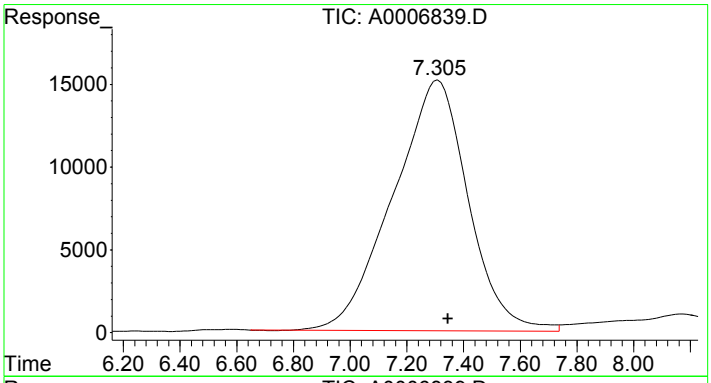
#3 Lactic Acid

R.T.: 3.662 min
Delta R.T.: 0.012 min
Response: 2473619
Conc: 52.59 ppm



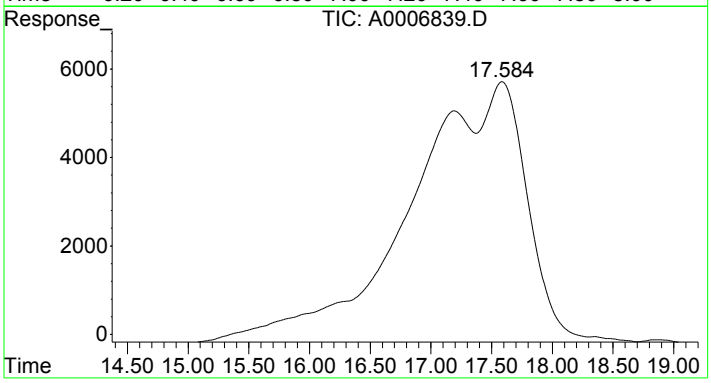
#4 Acetic Acid

R.T.: 3.977 min
Delta R.T.: -0.002 min
Response: 3030861
Conc: 51.89 ppm



#5 Propionic Acid

R.T.: 7.311 min
Delta R.T.: -0.034 min
Response: 2791294
Conc: 49.81 ppm



#6 Butyric Acid

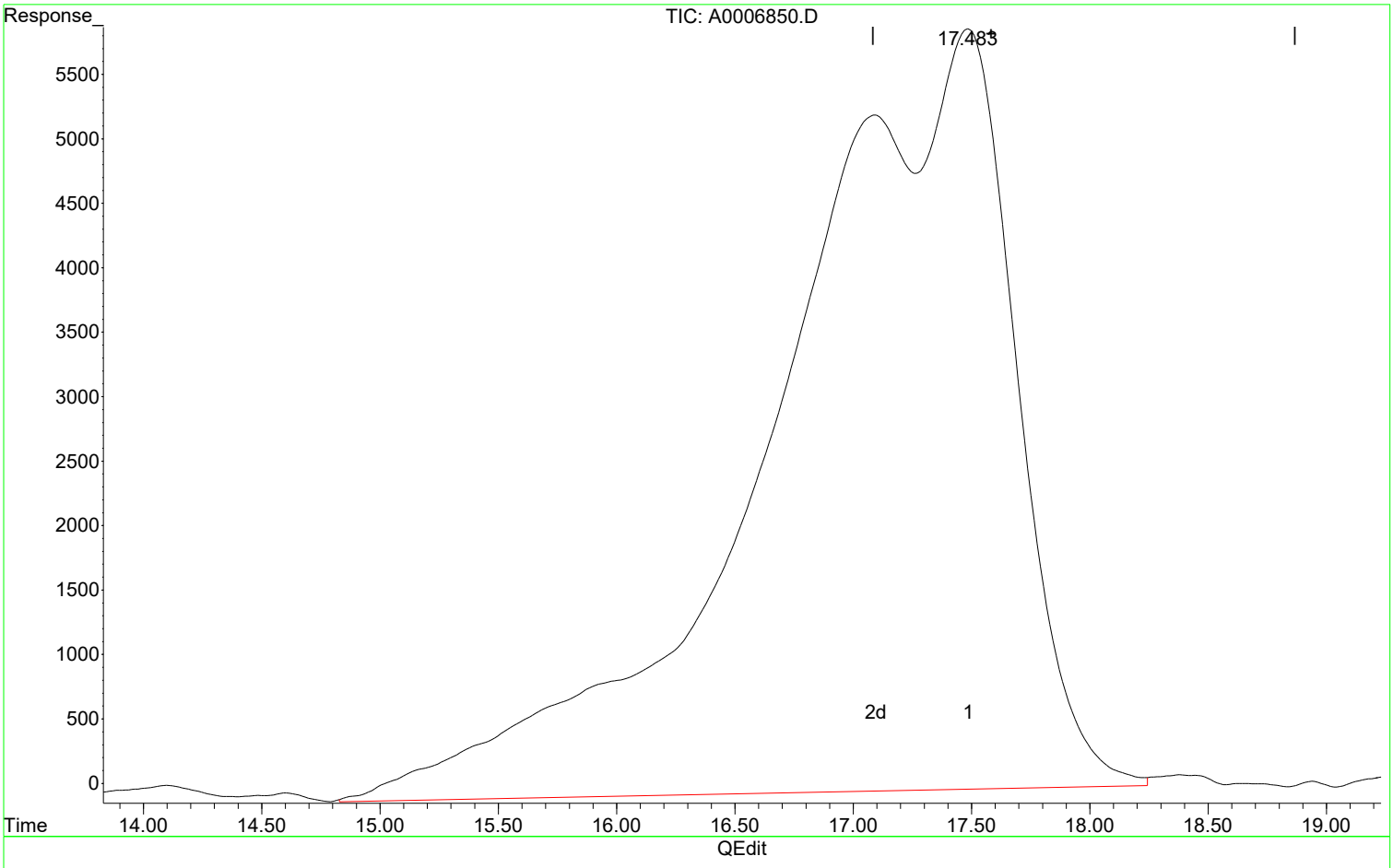
R.T.: 17.584 min
Delta R.T.: -0.189 min
Response: 4089947
Conc: 49.99 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006850.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 14:19:34
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 16:35:49 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:35:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.483min 50.121 ppm m

response 4100980

Manual Integration:

After

Poor integration.

06/07/24

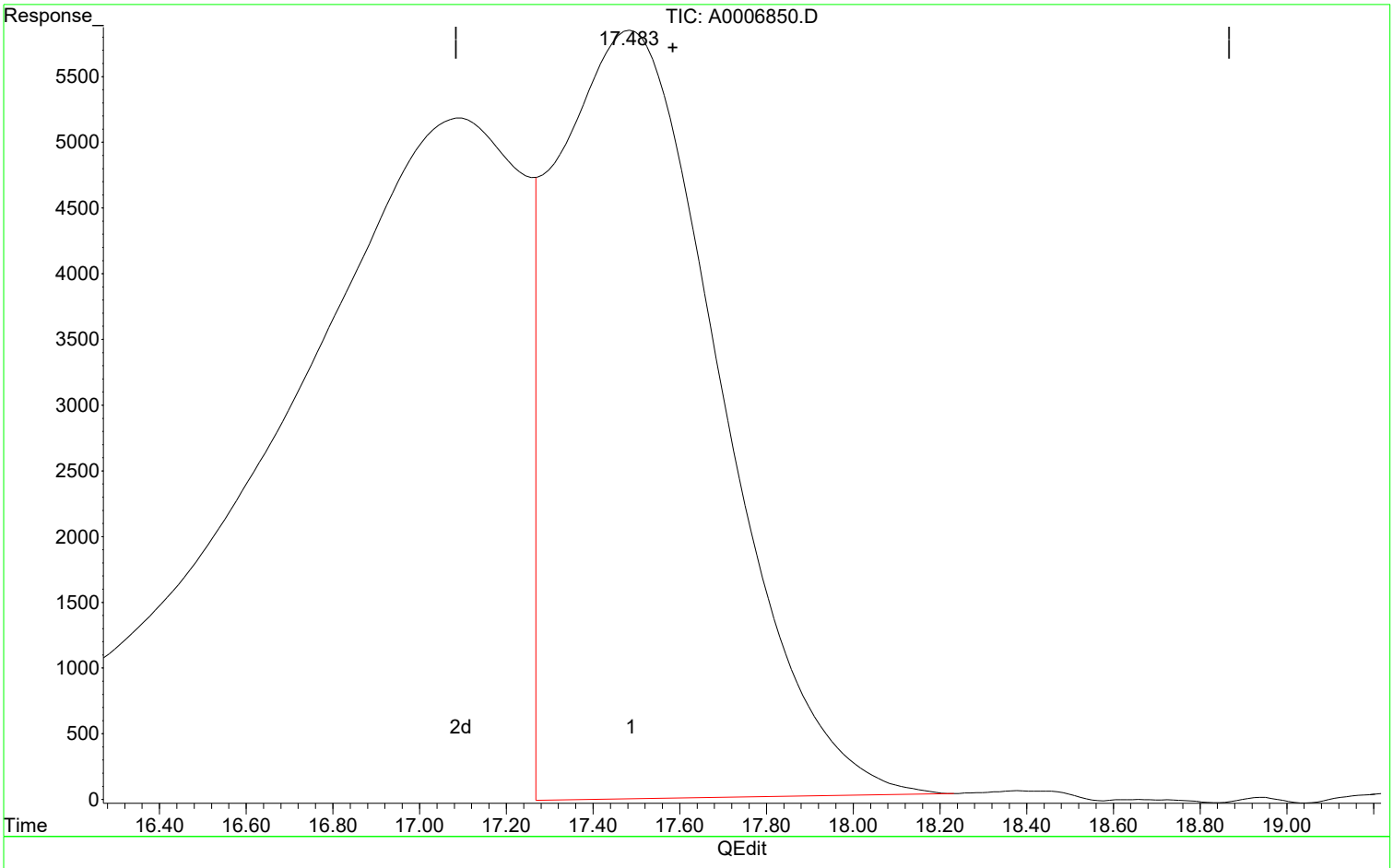
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006850.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 14:19:34
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 16:35:49 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:35:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.488min 19.011 ppm

response 1555479

Manual Integration:

Before

06/07/24

(+) = Expected Retention Time

1st 06/10/24
2nd 06/12/24

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006850.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 14:19:34
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 16:35:49 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:35:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 t	Formic acid	50.000	51.999	-4.0	99	-0.01
2 T	Pyruvic acid	5.000	5.588	-11.8	100	-0.02
3 T	Lactic Acid	50.000	53.323	-6.6	101	-0.02
4 T	Acetic Acid	50.000	52.306	-4.6	101	-0.02
5 T	Propionic Acid	50.000	50.125	-0.3	100	-0.04
6 T	Butyric Acid	50.000	50.121	-0.2	106	-0.10

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006850.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 14:19:34
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 16:35:49 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:35:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.020	4704881	51.999	ppm	
2) T	Pyruvic acid	3.342	2511172	5.588	ppm	
3) T	Lactic Acid	3.644	2507993	53.323	ppm	
4) T	Acetic Acid	3.957	3055188	52.306	ppm	
5) T	Propionic Acid	7.273	2808743	50.125	ppm	
6) T	Butyric Acid	17.483	4100980	50.121	ppm	m

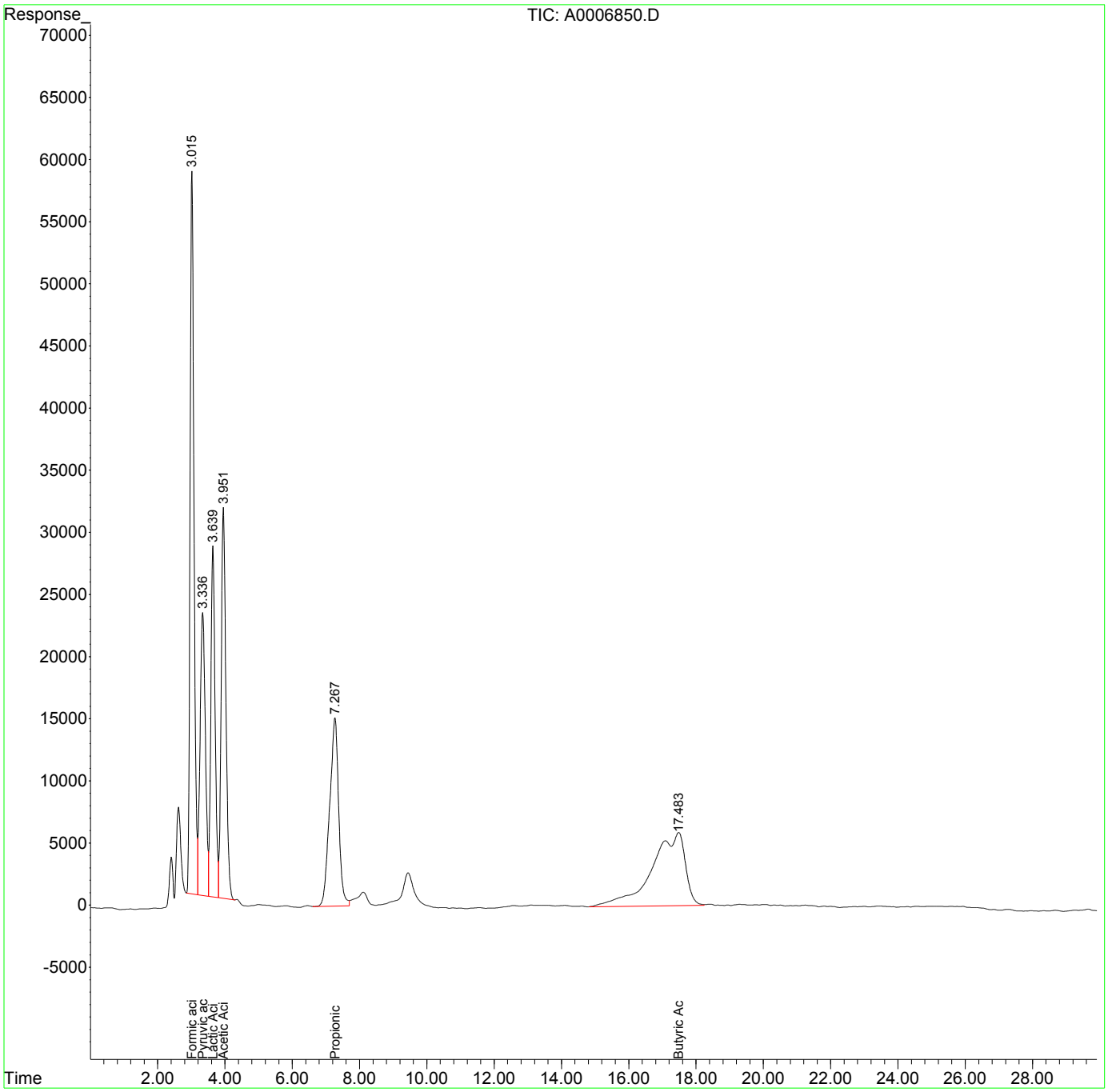
(f)=RT Delta > 1/2 Window (m)=manual int.

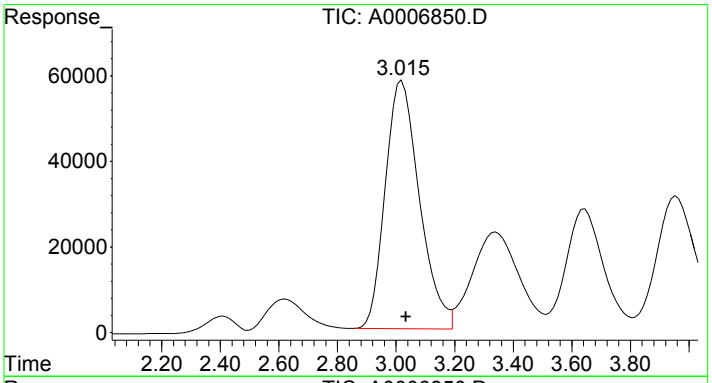
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006850.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 14:19:34
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 16:35:49 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:35:12 2024
Response via : Initial Calibration
Integrator: ChemStation

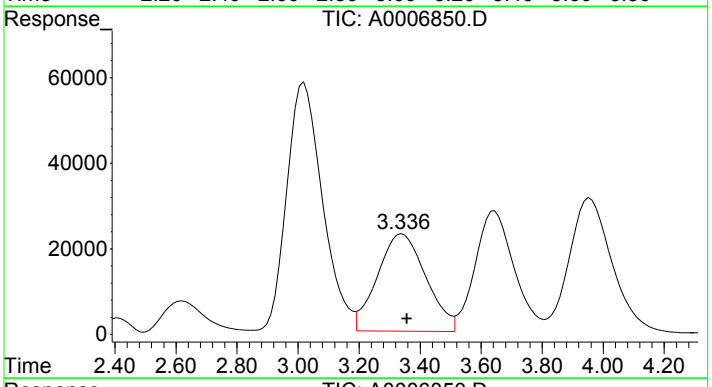
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





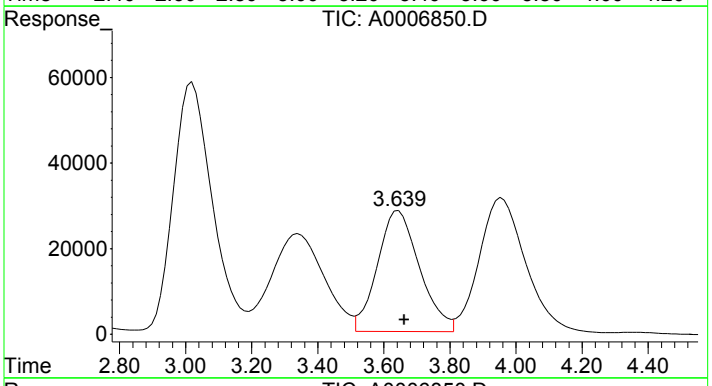
#1 Formic acid

R.T.: 3.020 min
Delta R.T.: -0.014 min
Response: 4704881
Conc: 52.00 ppm



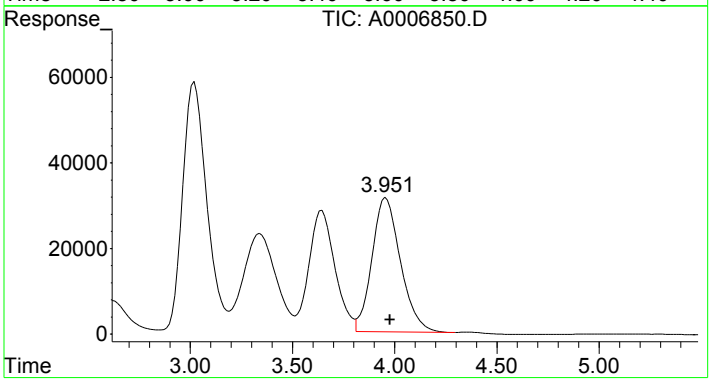
#2 Pyruvic acid

R.T.: 3.342 min
Delta R.T.: -0.015 min
Response: 2511172
Conc: 5.59 ppm



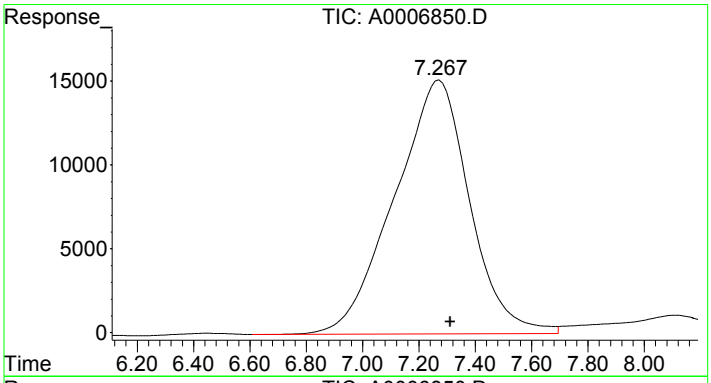
#3 Lactic Acid

R.T.: 3.644 min
Delta R.T.: -0.018 min
Response: 2507993
Conc: 53.32 ppm



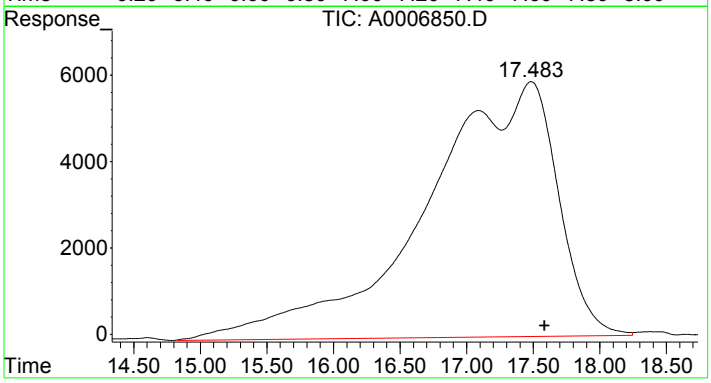
#4 Acetic Acid

R.T.: 3.957 min
Delta R.T.: -0.019 min
Response: 3055188
Conc: 52.31 ppm



#5 Propionic Acid

R.T.: 7.273 min
Delta R.T.: -0.038 min
Response: 2808743
Conc: 50.13 ppm



#6 Butyric Acid

R.T.: 17.483 min
Delta R.T.: -0.101 min
Response: 4100980
Conc: 50.12 ppm m

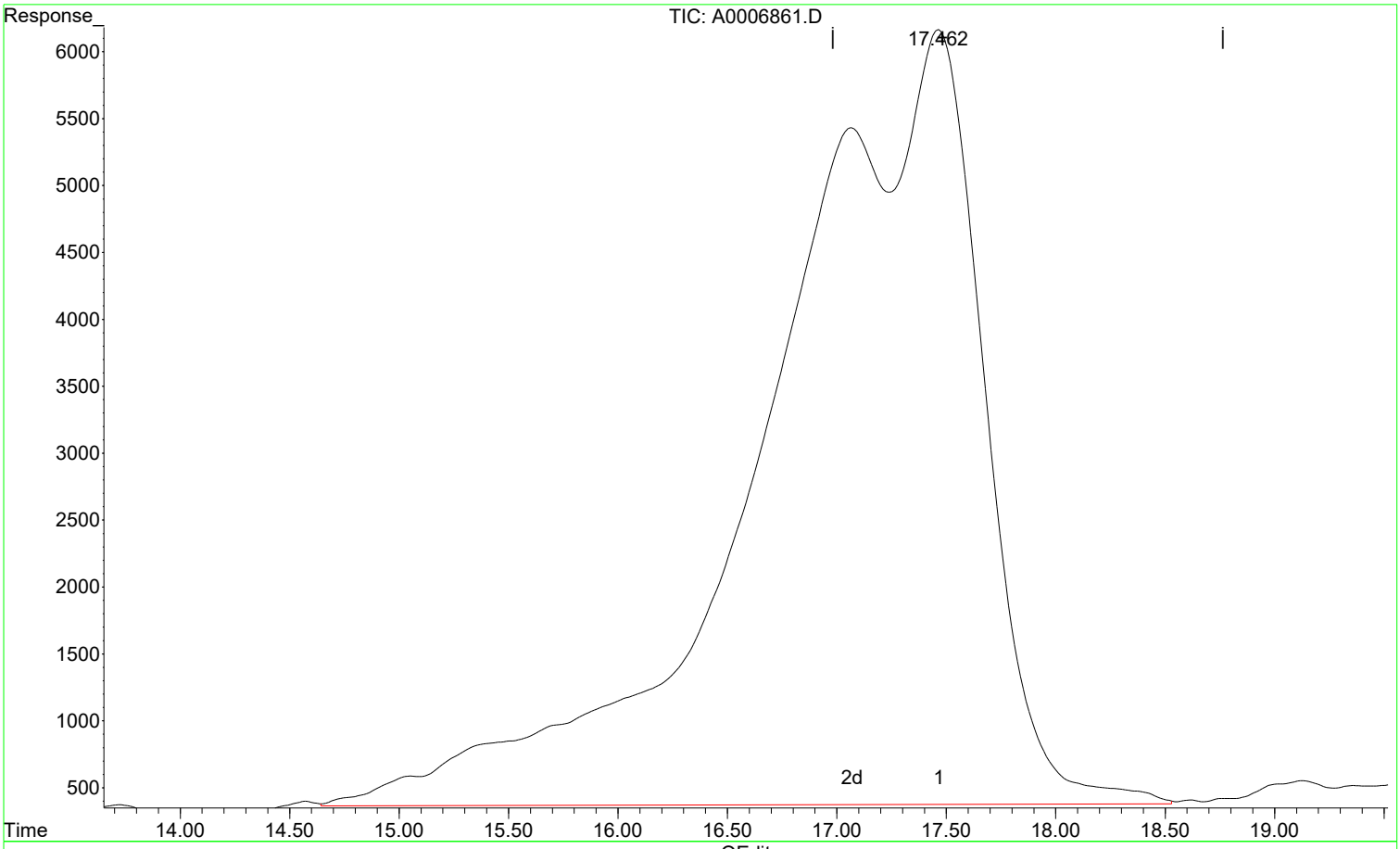
1st 06/10/24
2nd 06/12/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006861.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 20:15:20
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:38:59 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:36:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.462min 47.741 ppm m

response 3906222

Manual Integration:

After

Poor integration.

06/08/24

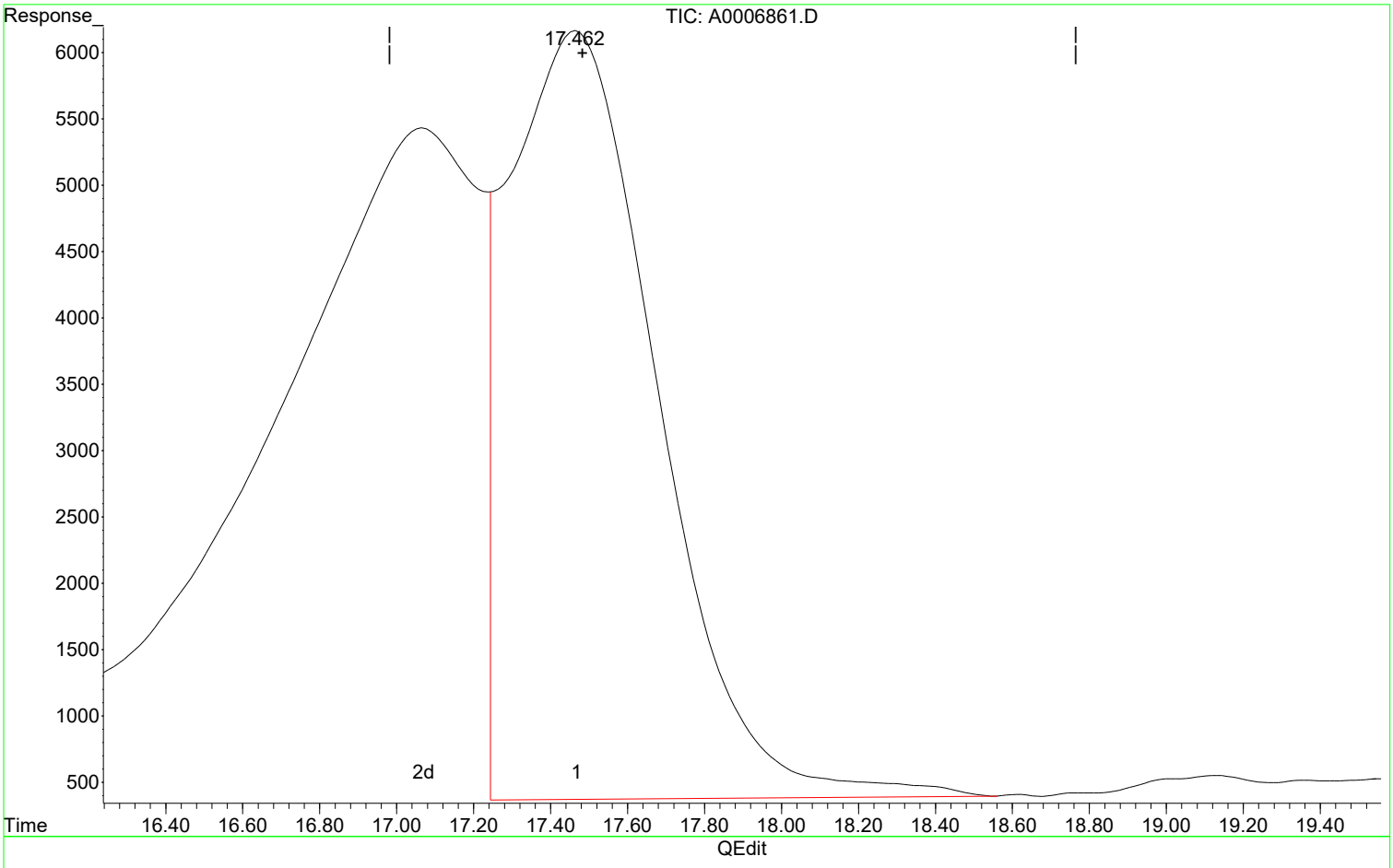
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006861.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 20:15:20
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:38:59 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:36:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.468min 19.236 ppm

response 1573894

Manual Integration:

Before

06/08/24

(+) = Expected Retention Time

1st 06/10/24
2nd 06/12/24

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006861.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 20:15:20
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:38:59 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:36:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 t	Formic acid	50.000	51.490	-3.0	98	0.00
2 T	Pyruvic acid	5.000	5.437	-8.7	97	0.00
3 T	Lactic Acid	50.000	52.601	-5.2	99	0.00
4 T	Acetic Acid	50.000	51.814	-3.6	100	0.00
5 T	Propionic Acid	50.000	49.808	0.4	99	-0.01
6 T	Butyric Acid	50.000	47.741	4.5	101	-0.02

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006861.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 20:15:20
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:38:59 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:36:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.015	4658838	51.490	ppm	
2) T	Pyruvic acid	3.335	2443498	5.437	ppm	
3) T	Lactic Acid	3.638	2474045	52.601	ppm	
4) T	Acetic Acid	3.950	3026443	51.814	ppm	
5) T	Propionic Acid	7.260	2791001	49.808	ppm	
6) T	Butyric Acid	17.462	3906222	47.741	ppm	m

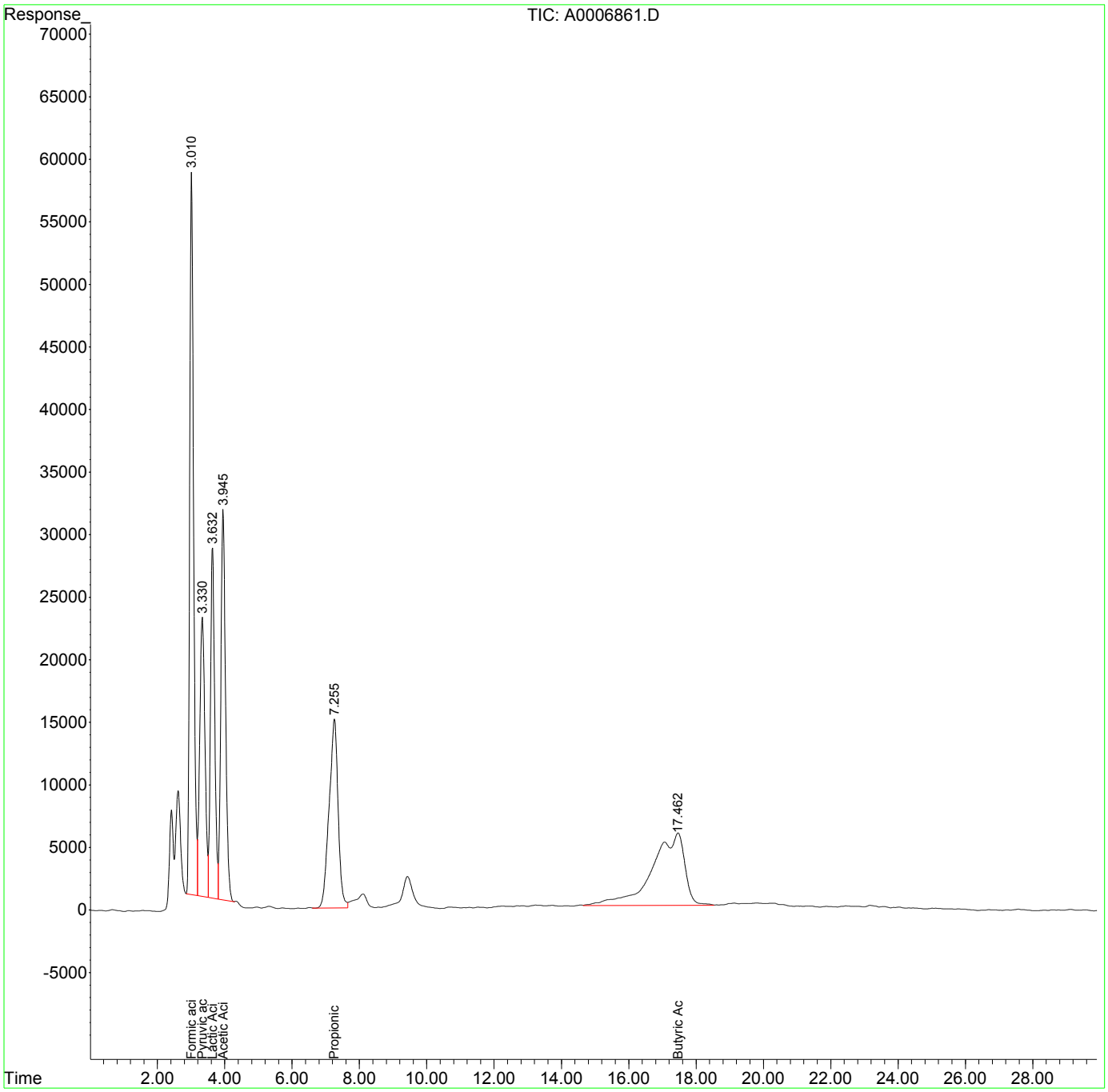
(f)=RT Delta > 1/2 Window (m)=manual int.

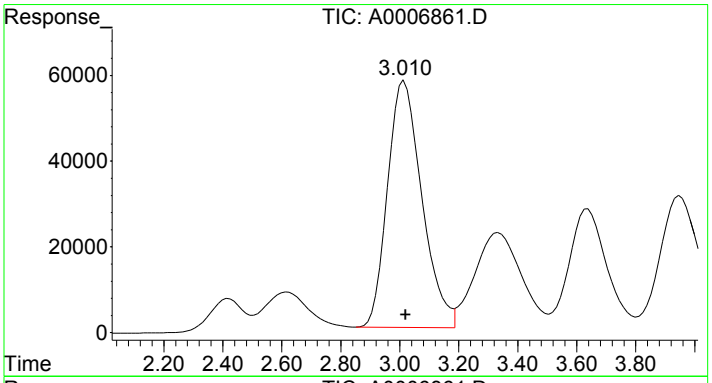
1st 06/10/24
2nd 06/12/24

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006861.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 20:15:20
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:38:59 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 16:36:48 2024
Response via : Initial Calibration
Integrator: ChemStation

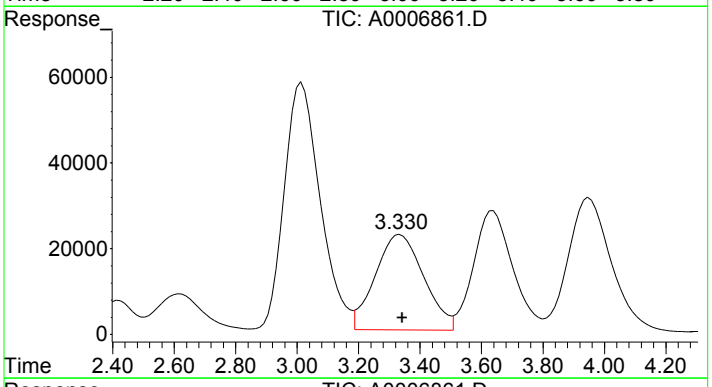
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





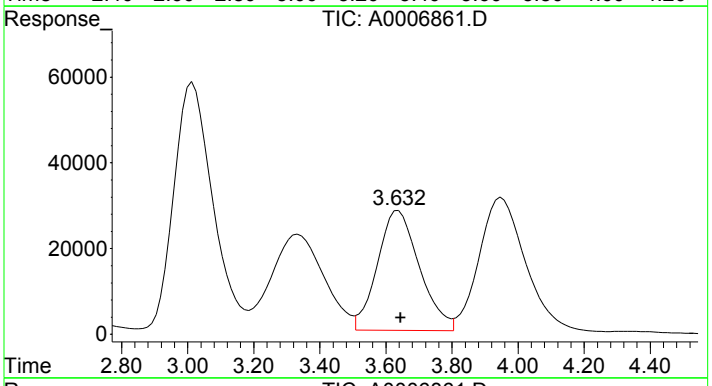
#1 Formic acid

R.T.: 3.015 min
Delta R.T.: -0.005 min
Response: 4658838
Conc: 51.49 ppm



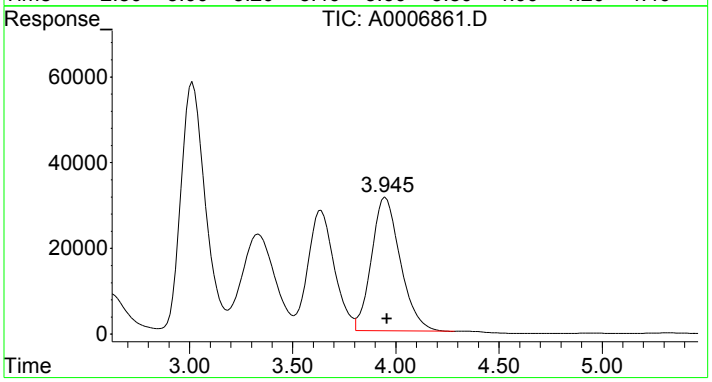
#2 Pyruvic acid

R.T.: 3.335 min
Delta R.T.: -0.006 min
Response: 2443498
Conc: 5.44 ppm



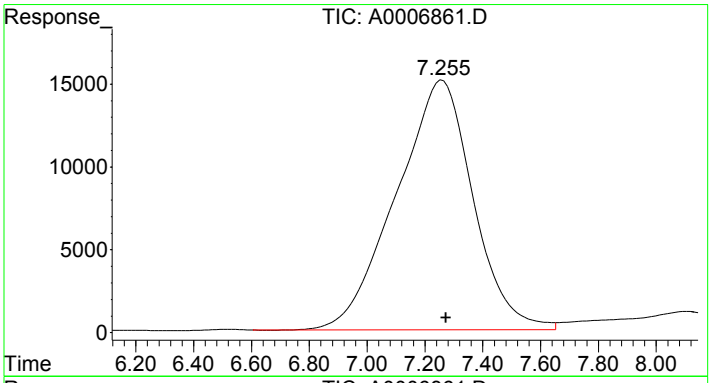
#3 Lactic Acid

R.T.: 3.638 min
Delta R.T.: -0.007 min
Response: 2474045
Conc: 52.60 ppm



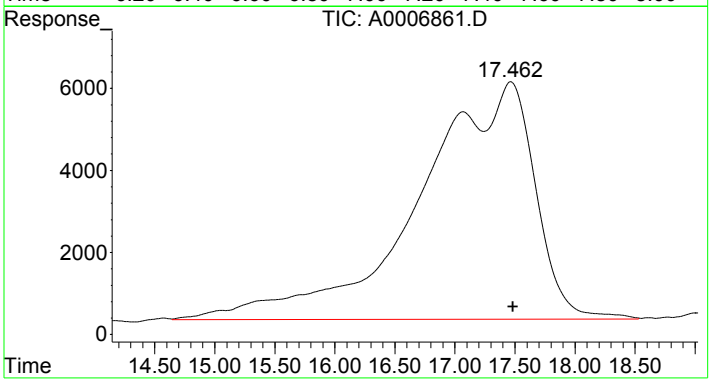
#4 Acetic Acid

R.T.: 3.950 min
Delta R.T.: -0.007 min
Response: 3026443
Conc: 51.81 ppm



#5 Propionic Acid

R.T.: 7.260 min
Delta R.T.: -0.012 min
Response: 2791001
Conc: 49.81 ppm



#6 Butyric Acid

R.T.: 17.462 min
Delta R.T.: -0.020 min
Response: 3906222
Conc: 47.74 ppm m

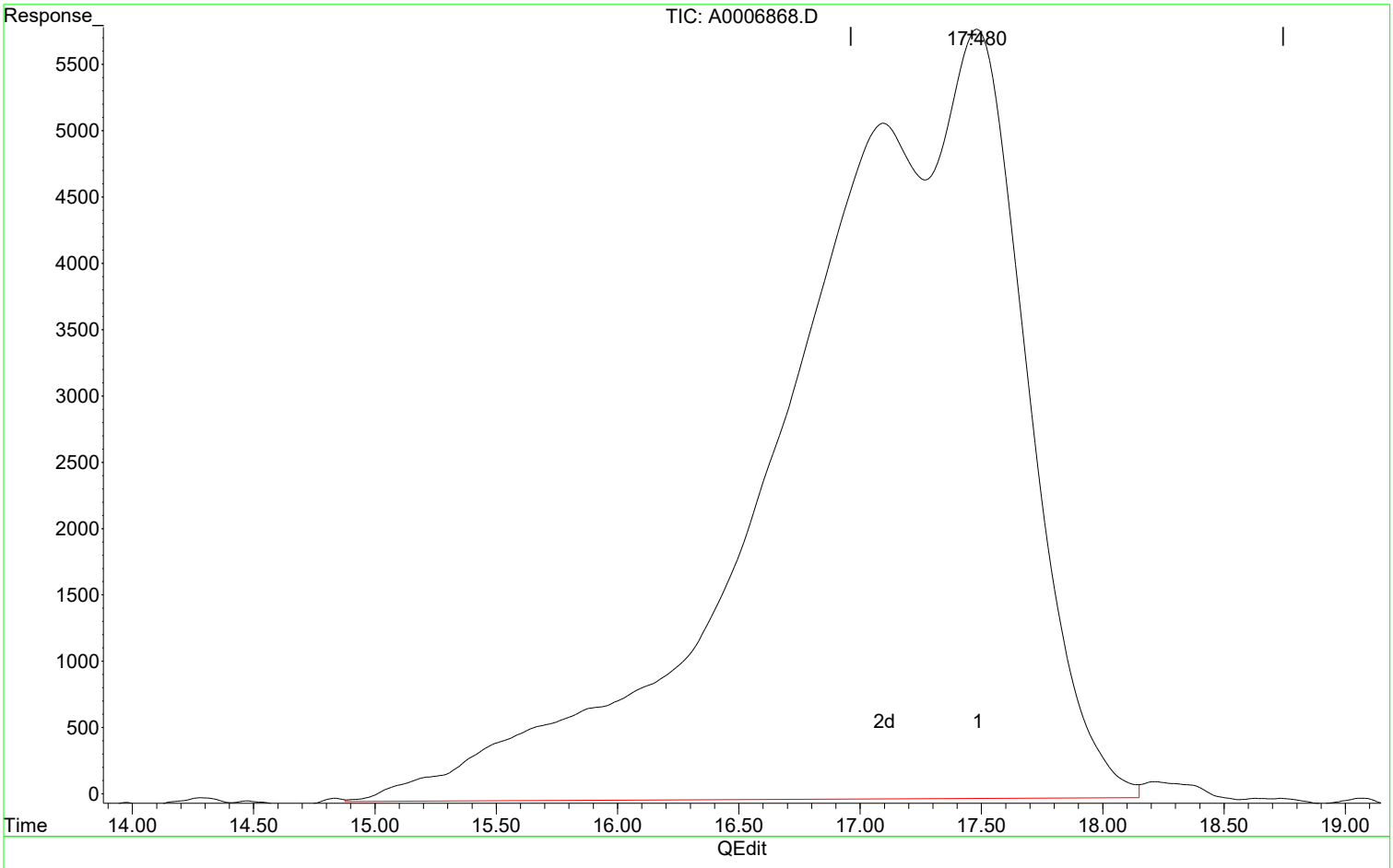
1st 06/10/24
2nd 06/12/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006868.D
Signal(s) : dad1A.ch
Acq On : 08-Jun-2024, 00:01:49
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:44:06 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.480min 47.498 ppm m

response 3886296

Manual Integration:

After

Poor integration.

06/08/24

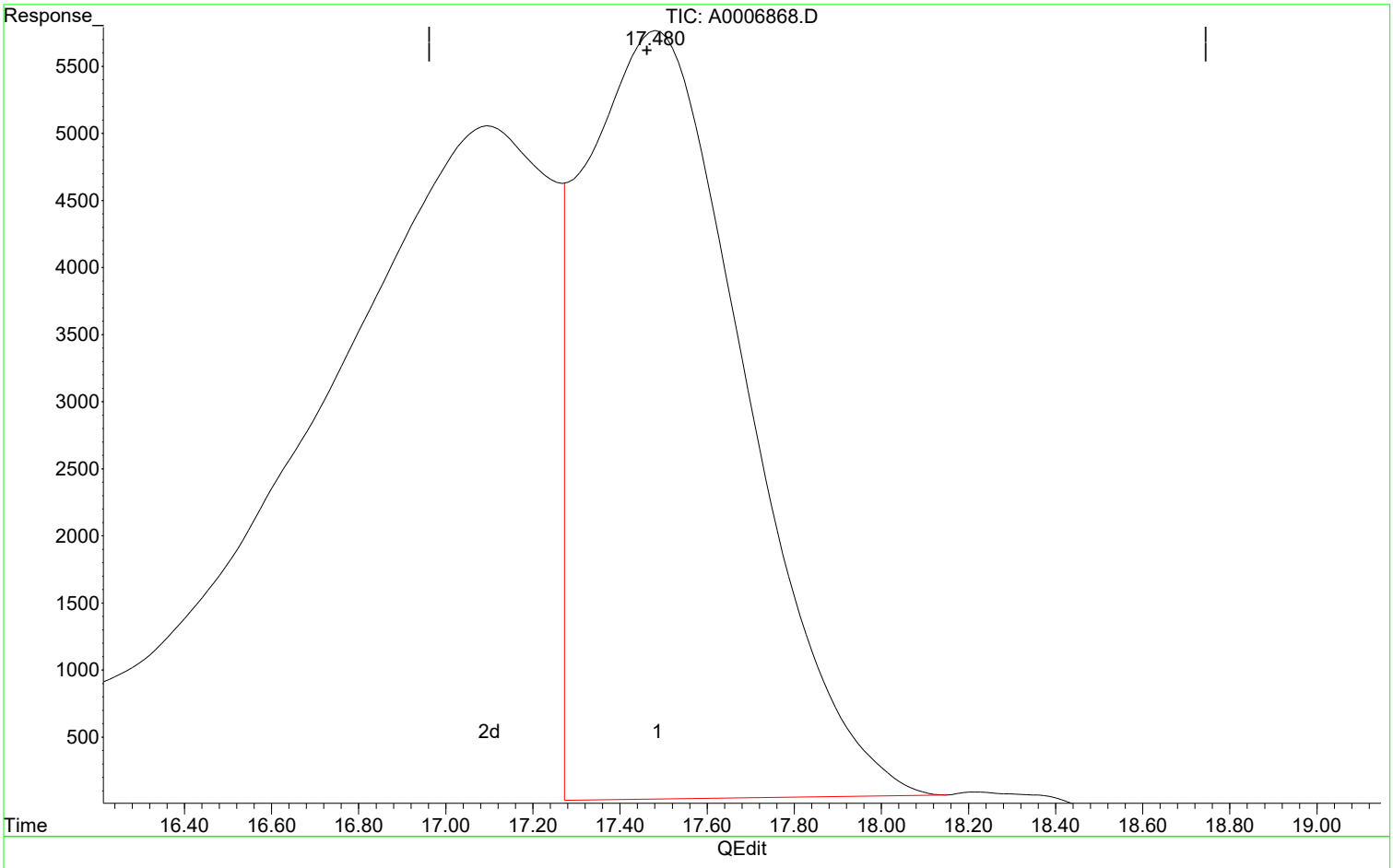
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006868.D
Signal(s) : dad1A.ch
Acq On : 08-Jun-2024, 00:01:49
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:44:06 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.486min 18.176 ppm

response 1487181

Manual Integration:

Before

06/08/24

(+) = Expected Retention Time

1st 06/10/24
2nd 06/12/24

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006868.D
Signal(s) : dad1A.ch
Acq On : 08-Jun-2024, 00:01:49
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:44:06 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 t	Formic acid	50.000	51.550	-3.1	98	0.00
2 T	Pyruvic acid	5.000	5.440	-8.8	97	0.00
3 T	Lactic Acid	50.000	52.823	-5.6	100	0.00
4 T	Acetic Acid	50.000	51.940	-3.9	101	0.00
5 T	Propionic Acid	50.000	49.289	1.4	98	0.00
6 T	Butyric Acid	50.000	47.498	5.0	100	0.02

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006868.D
Signal(s) : dad1A.ch
Acq On : 08-Jun-2024, 00:01:49
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:44:06 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.016	4664270	51.550	ppm	
2) T	Pyruvic acid	3.336	2444739	5.440	ppm	
3) T	Lactic Acid	3.639	2484487	52.823	ppm	
4) T	Acetic Acid	3.952	3033790	51.940	ppm	
5) T	Propionic Acid	7.266	2761910	49.289	ppm	
6) T	Butyric Acid	17.480	3886296	47.498	ppm	m

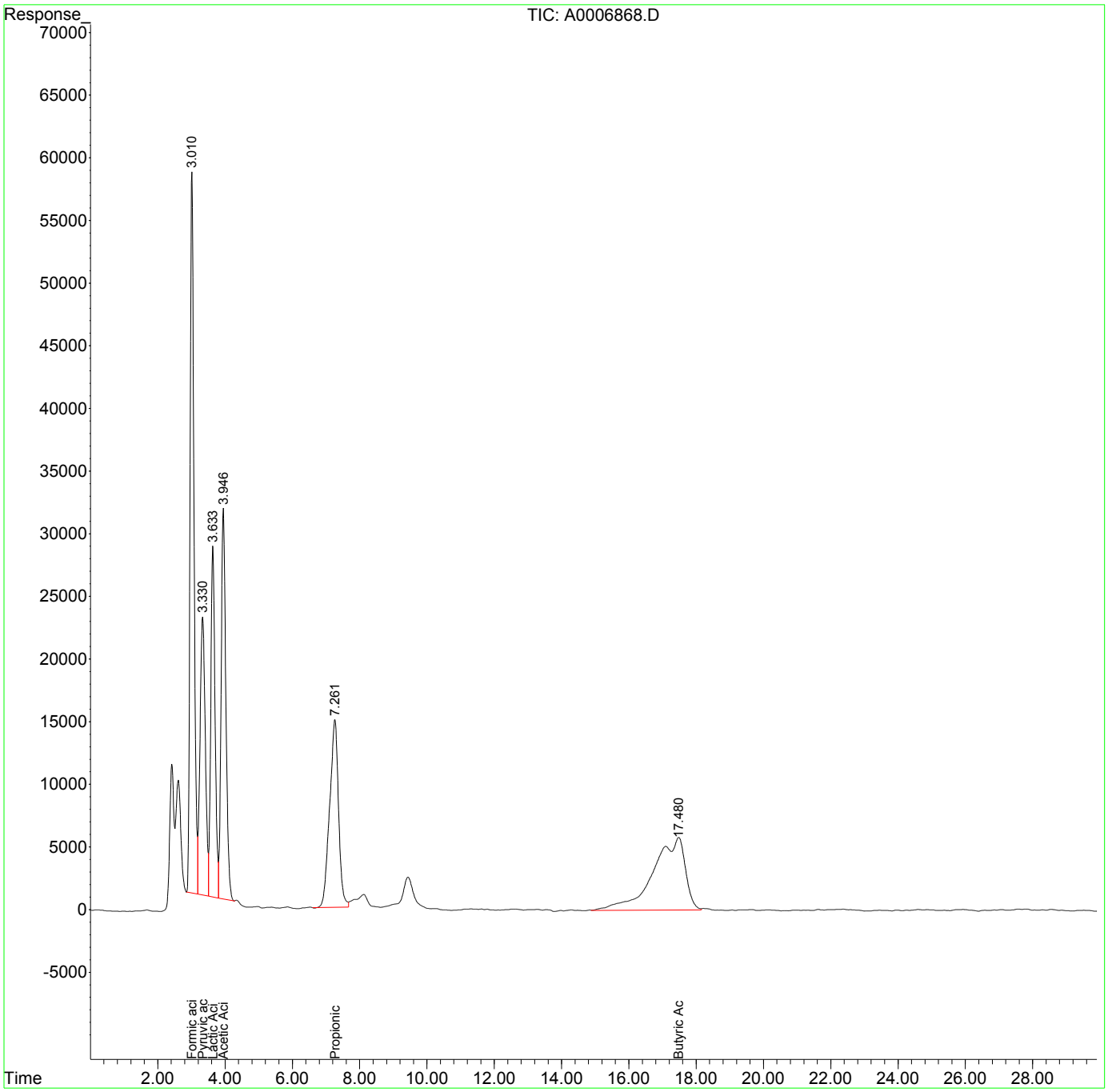
(f)=RT Delta > 1/2 Window (m)=manual int.

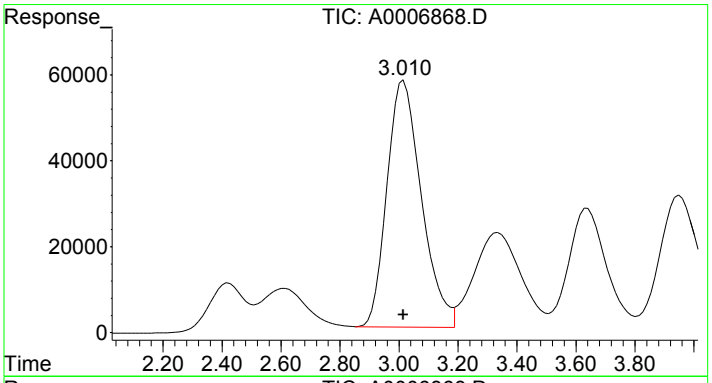
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006868.D
Signal(s) : dad1A.ch
Acq On : 08-Jun-2024, 00:01:49
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 08 09:44:06 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Sat Jun 08 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

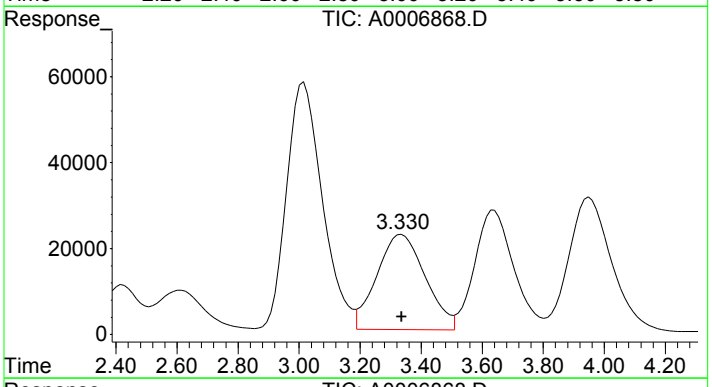
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





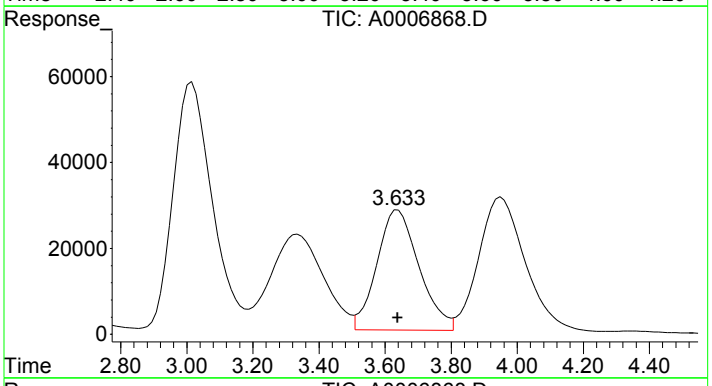
#1 Formic acid

R.T.: 3.016 min
Delta R.T.: 0.000 min
Response: 4664270
Conc: 51.55 ppm



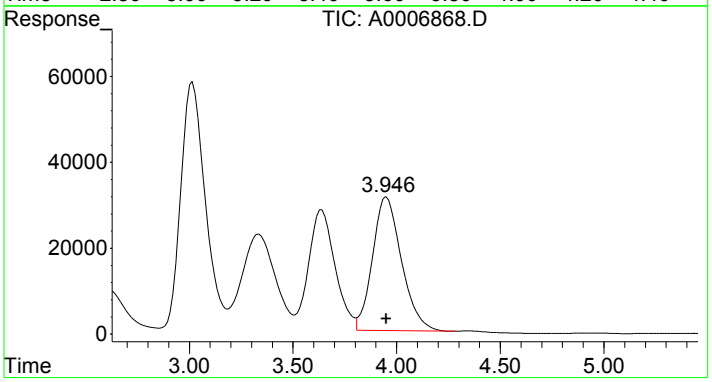
#2 Pyruvic acid

R.T.: 3.336 min
Delta R.T.: 0.000 min
Response: 2444739
Conc: 5.44 ppm



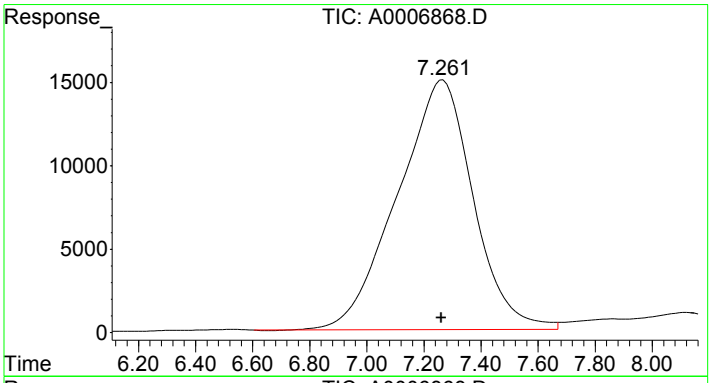
#3 Lactic Acid

R.T.: 3.639 min
Delta R.T.: 0.001 min
Response: 2484487
Conc: 52.82 ppm



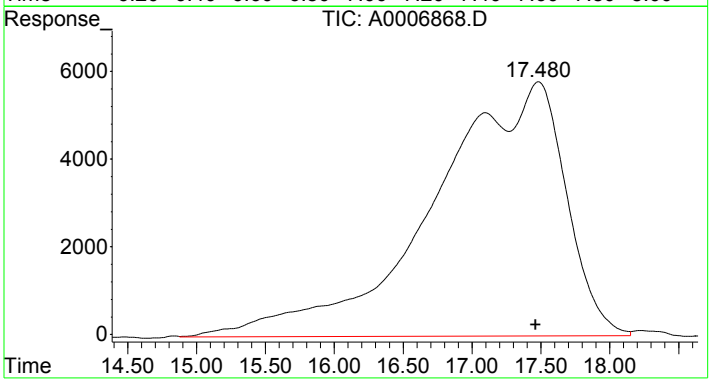
#4 Acetic Acid

R.T.: 3.952 min
Delta R.T.: 0.002 min
Response: 3033790
Conc: 51.94 ppm



#5 Propionic Acid

R.T.: 7.266 min
Delta R.T.: 0.006 min
Response: 2761910
Conc: 49.29 ppm



#6 Butyric Acid

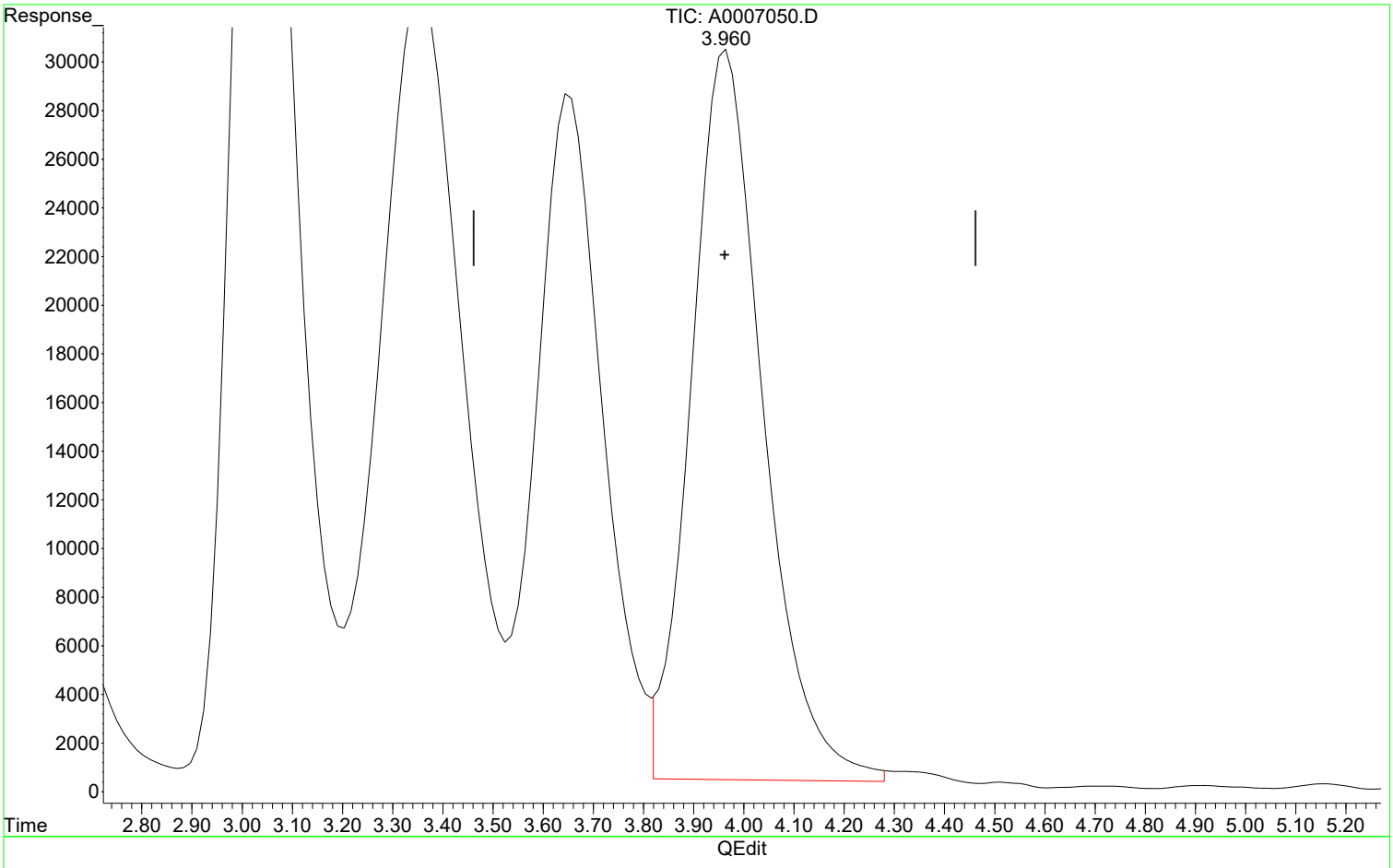
R.T.: 17.480 min
Delta R.T.: 0.018 min
Response: 3886296
Conc: 47.50 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007050.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 00:29:21
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:46:02 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:44:29 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.960min 51.789 ppm m

response 2989380

Manual Integration:

After

Poor integration.

06/19/24

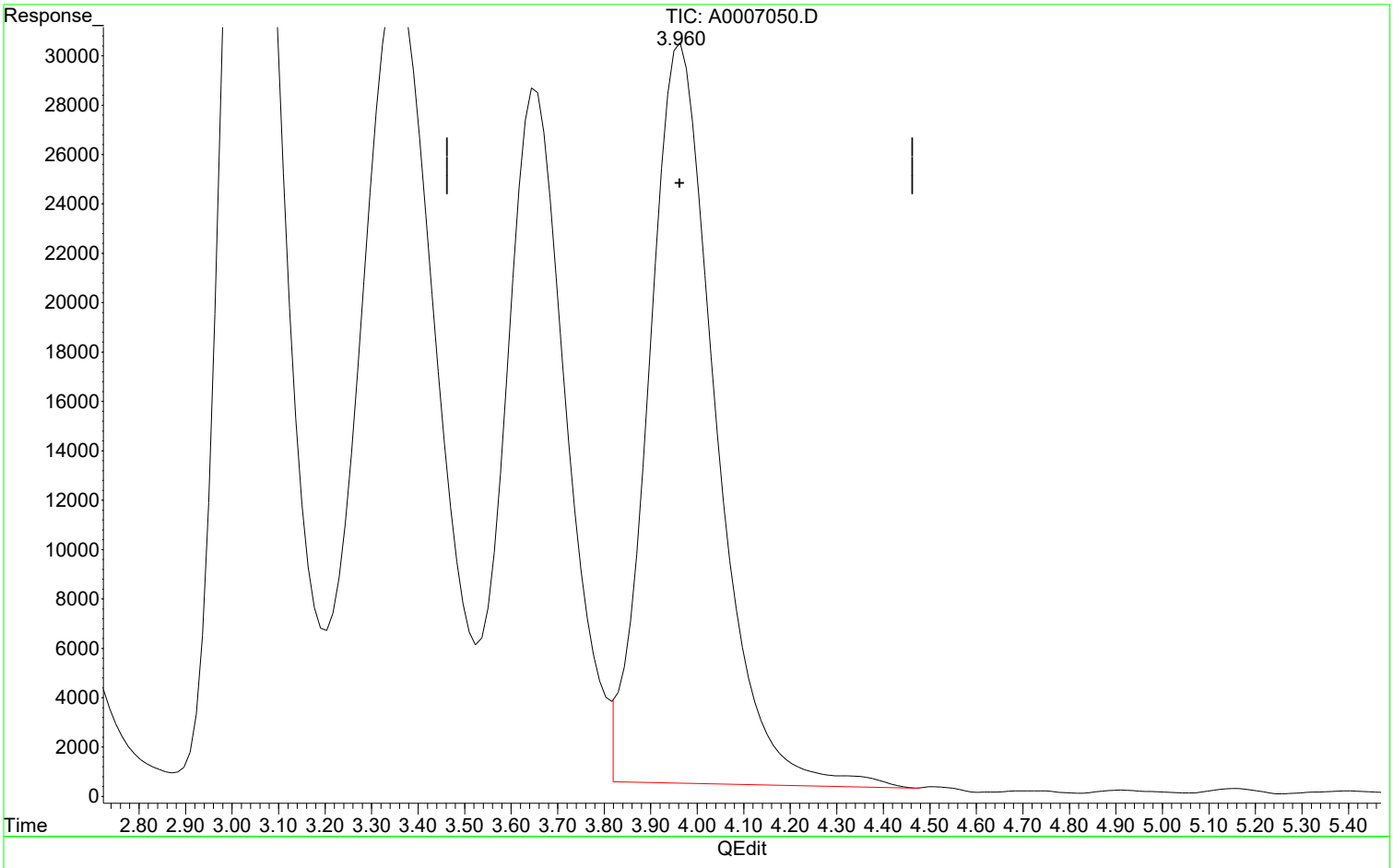
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007050.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 00:29:21
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:46:02 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:44:29 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.966min 52.462 ppm

response 3028218

Manual Integration:

Before

06/19/24

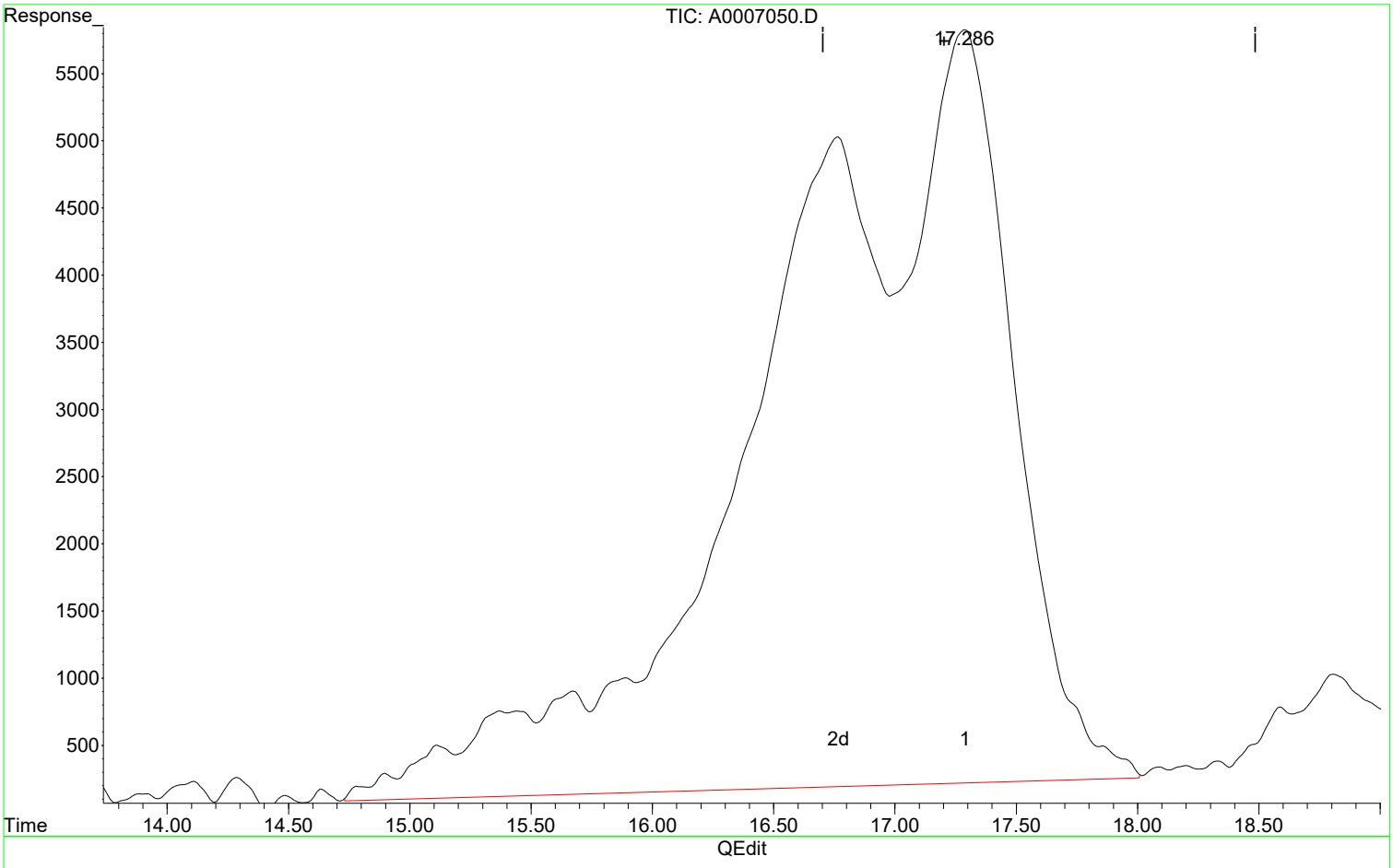
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007050.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 00:29:21
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:46:02 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:44:29 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.286min 49.493 ppm m

response 3819086

Manual Integration:

After

Poor integration.

06/19/24

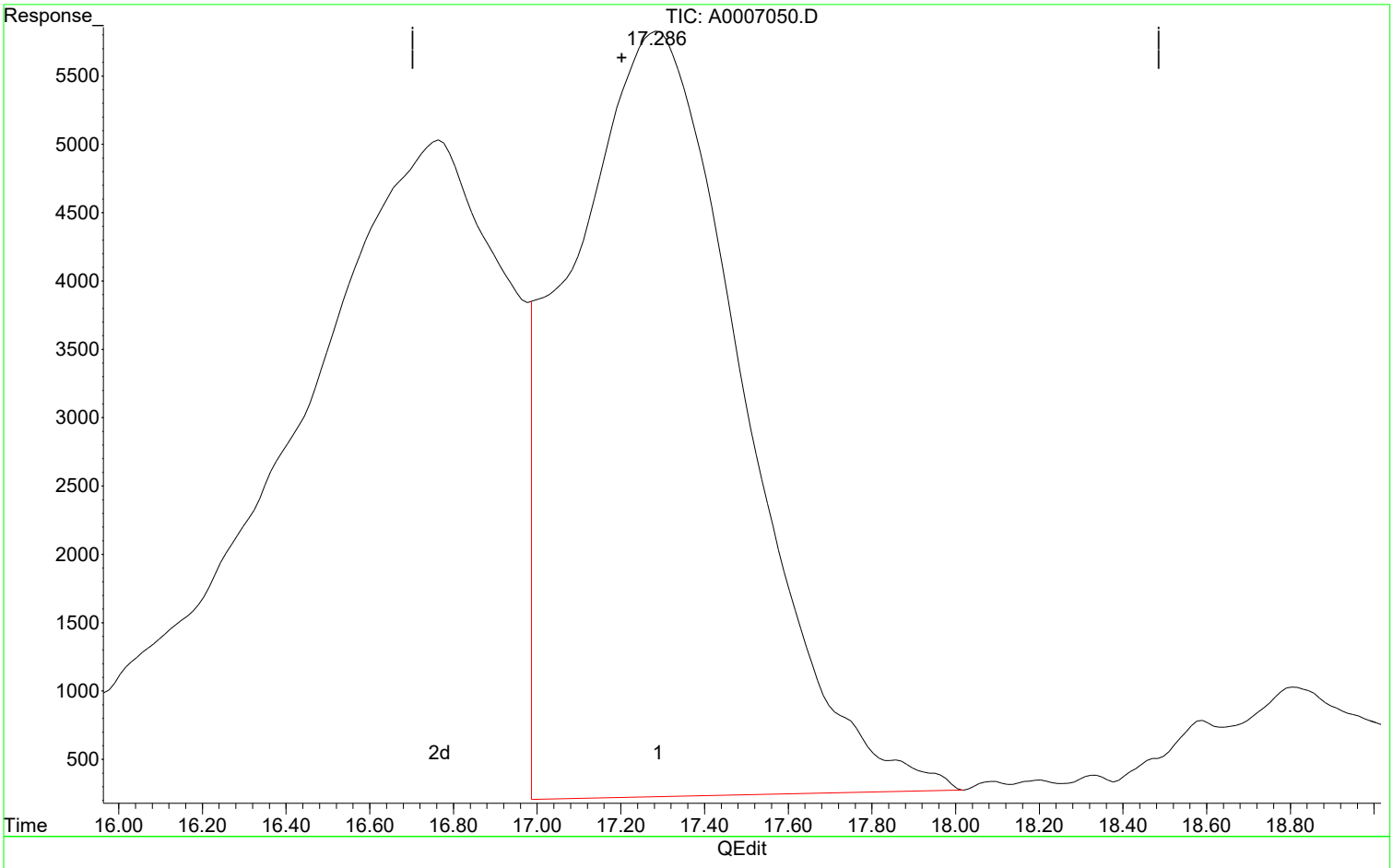
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007050.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 00:29:21
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:46:02 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:44:29 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.290min 21.255 ppm

response 1640092

Manual Integration:

Before

06/19/24

(+) = Expected Retention Time

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007050.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 00:29:21
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:46:02 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:44:29 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 t	Formic acid	50.000	51.738	-3.5	99	0.00
2 T	Pyruvic acid	5.000	5.434	-8.7	99	0.00
3 T	Lactic Acid	50.000	53.485	-7.0	99	0.00
4 T	Acetic Acid	50.000	51.789	-3.6	99	0.00
5 T	Propionic Acid	50.000	48.738	2.5	100	0.02
6 T	Butyric Acid	50.000	49.493	1.0	102	0.08

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007050.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 00:29:21
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:46:02 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:44:29 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.039	4555264	51.738	ppm	
2) T	Pyruvic acid	3.359	3597774	5.434	ppm	
3) T	Lactic Acid	3.654	2558720	53.485	ppm	
4) T	Acetic Acid	3.960	2989380	51.789	ppm	m
5) T	Propionic Acid	7.239	2859685	48.738	ppm	
6) T	Butyric Acid	17.286	3819086	49.493	ppm	m

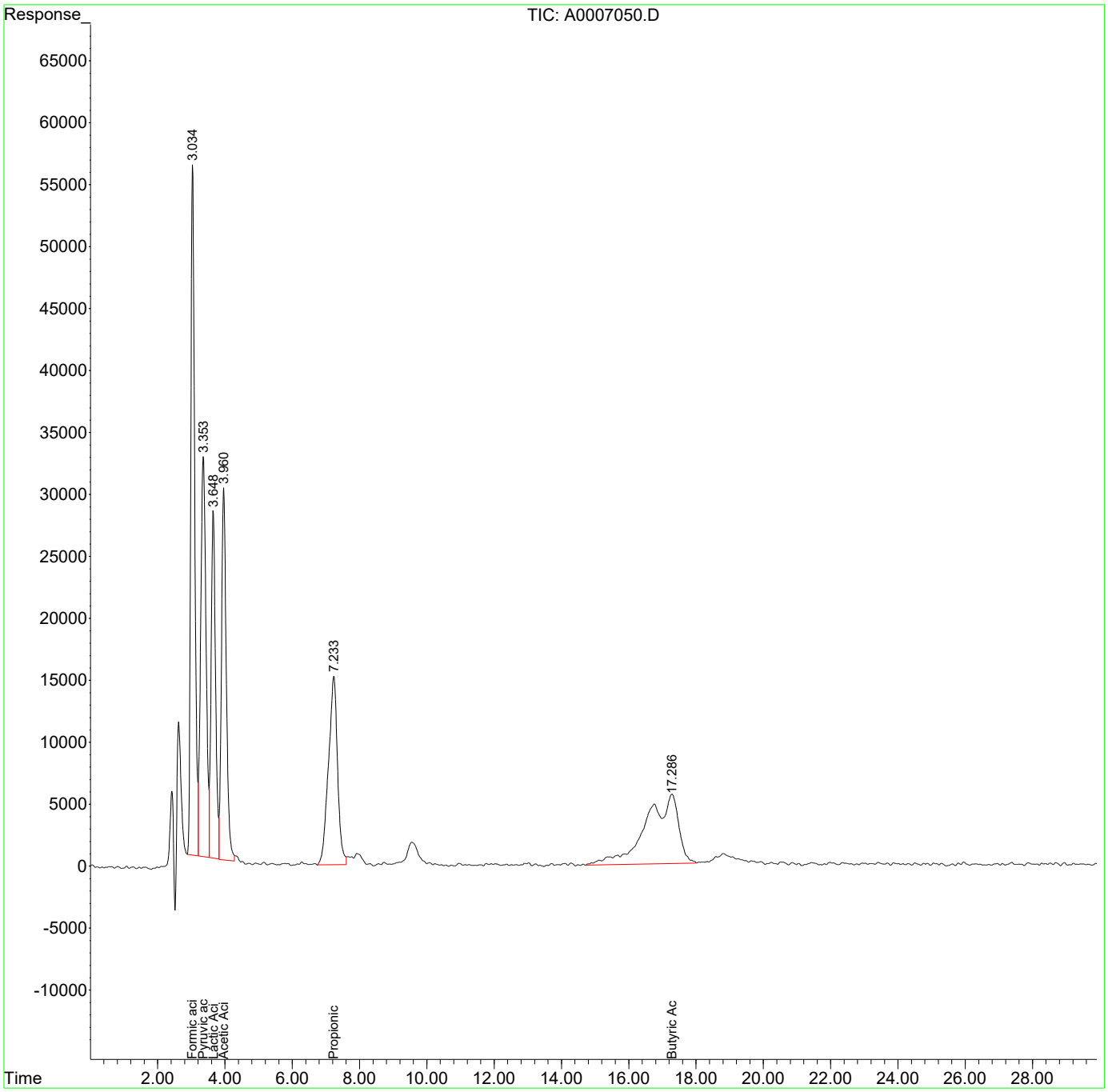
(f)=RT Delta > 1/2 Window (m)=manual int.

1st AF 06/19/24
2nd BA 06/19/24

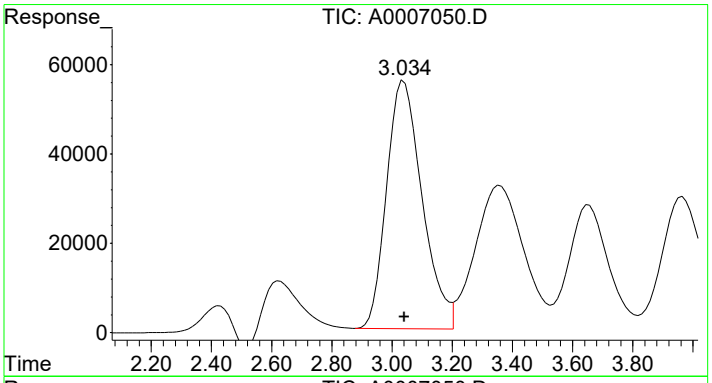
Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007050.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 00:29:21
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:46:02 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:44:29 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

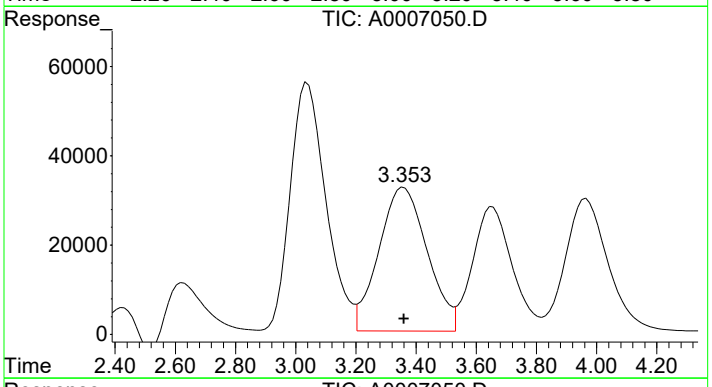


1st AF 06/19/24
2nd BA 06/19/24



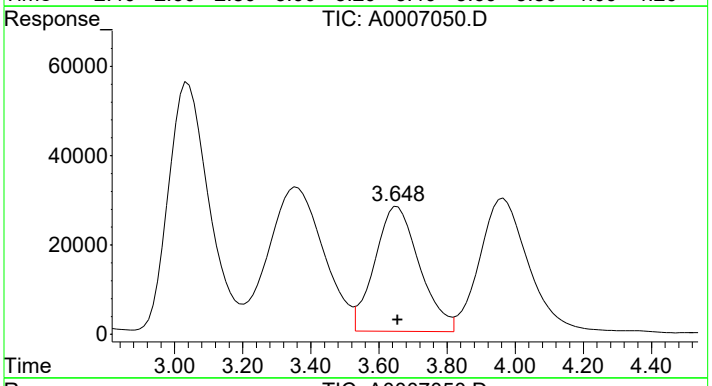
#1 Formic acid

R.T.: 3.039 min
Delta R.T.: -0.002 min
Response: 4555264
Conc: 51.74 ppm



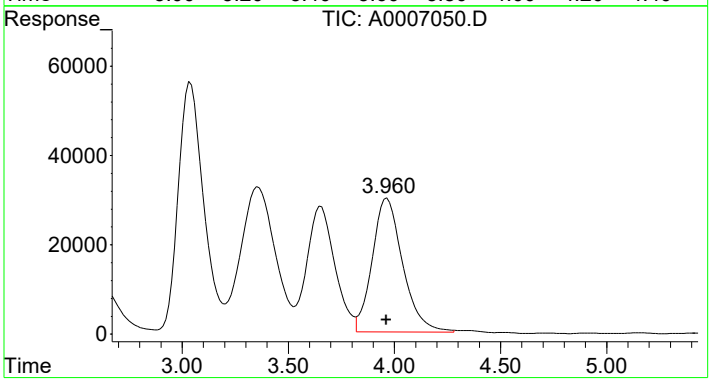
#2 Pyruvic acid

R.T.: 3.359 min
Delta R.T.: -0.002 min
Response: 3597774
Conc: 5.43 ppm



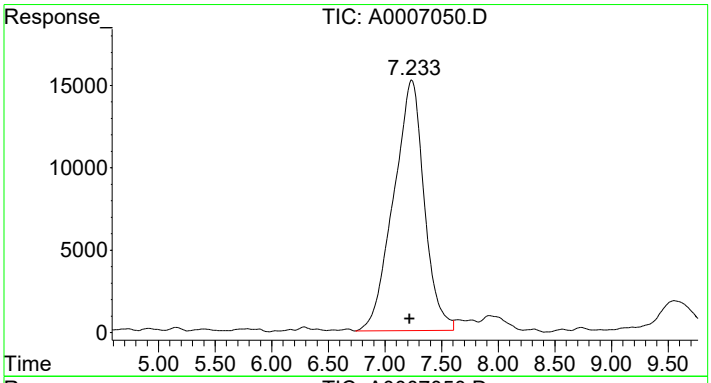
#3 Lactic Acid

R.T.: 3.654 min
Delta R.T.: 0.000 min
Response: 2558720
Conc: 53.49 ppm



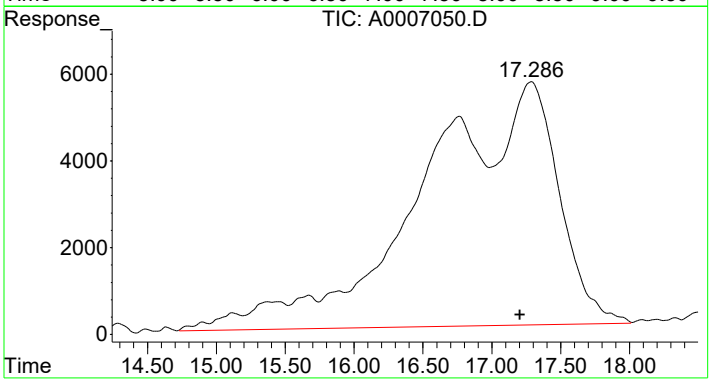
#4 Acetic Acid

R.T.: 3.960 min
Delta R.T.: -0.003 min
Response: 2989380
Conc: 51.79 ppm m



#5 Propionic Acid

R.T.: 7.239 min
Delta R.T.: 0.022 min
Response: 2859685
Conc: 48.74 ppm



#6 Butyric Acid

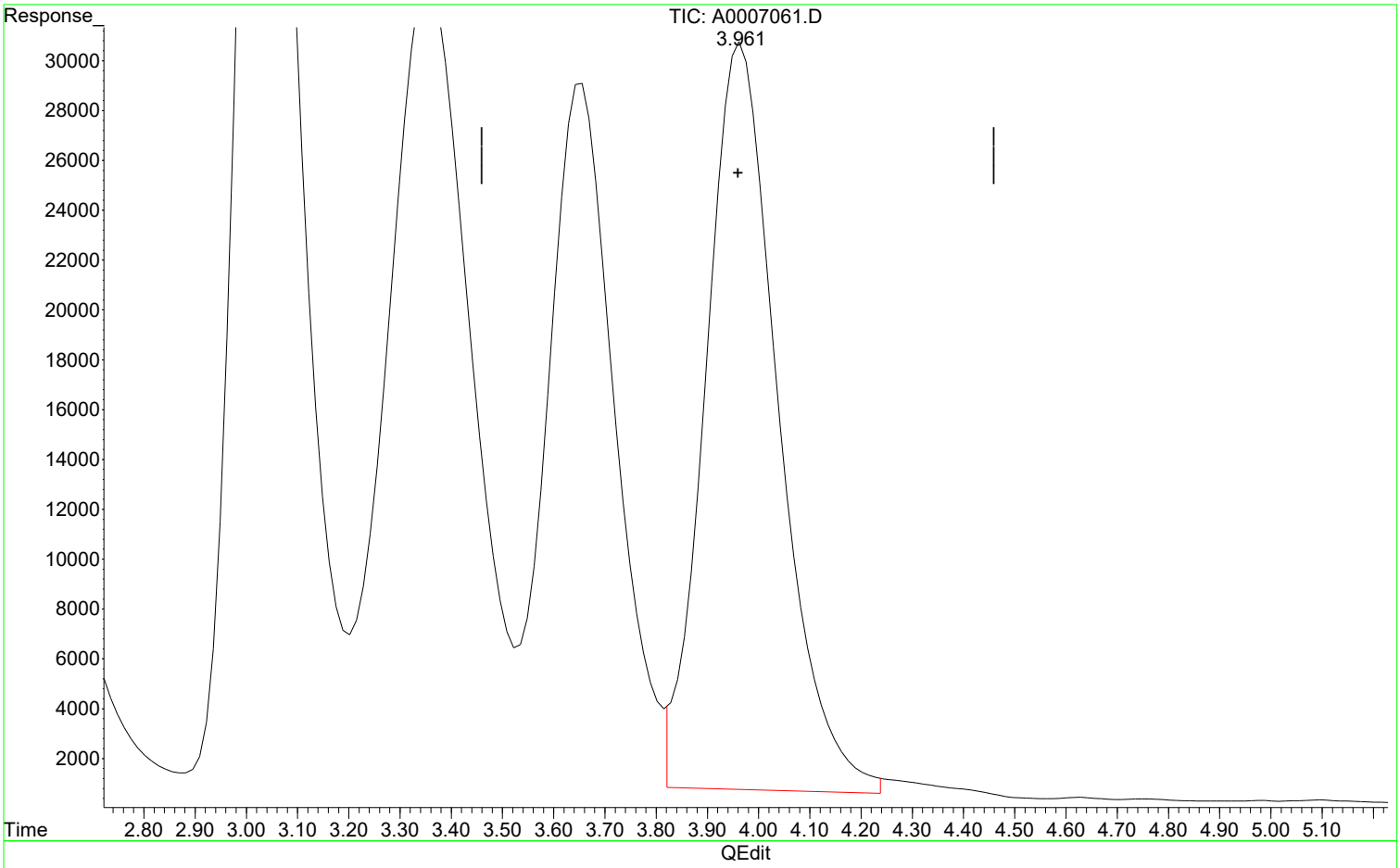
R.T.: 17.286 min
Delta R.T.: 0.082 min
Response: 3819086
Conc: 49.49 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007061.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 06:25:16
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:47:15 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.961min 51.204 ppm m

response 2955593

Manual Integration:

After

Poor integration.

06/19/24

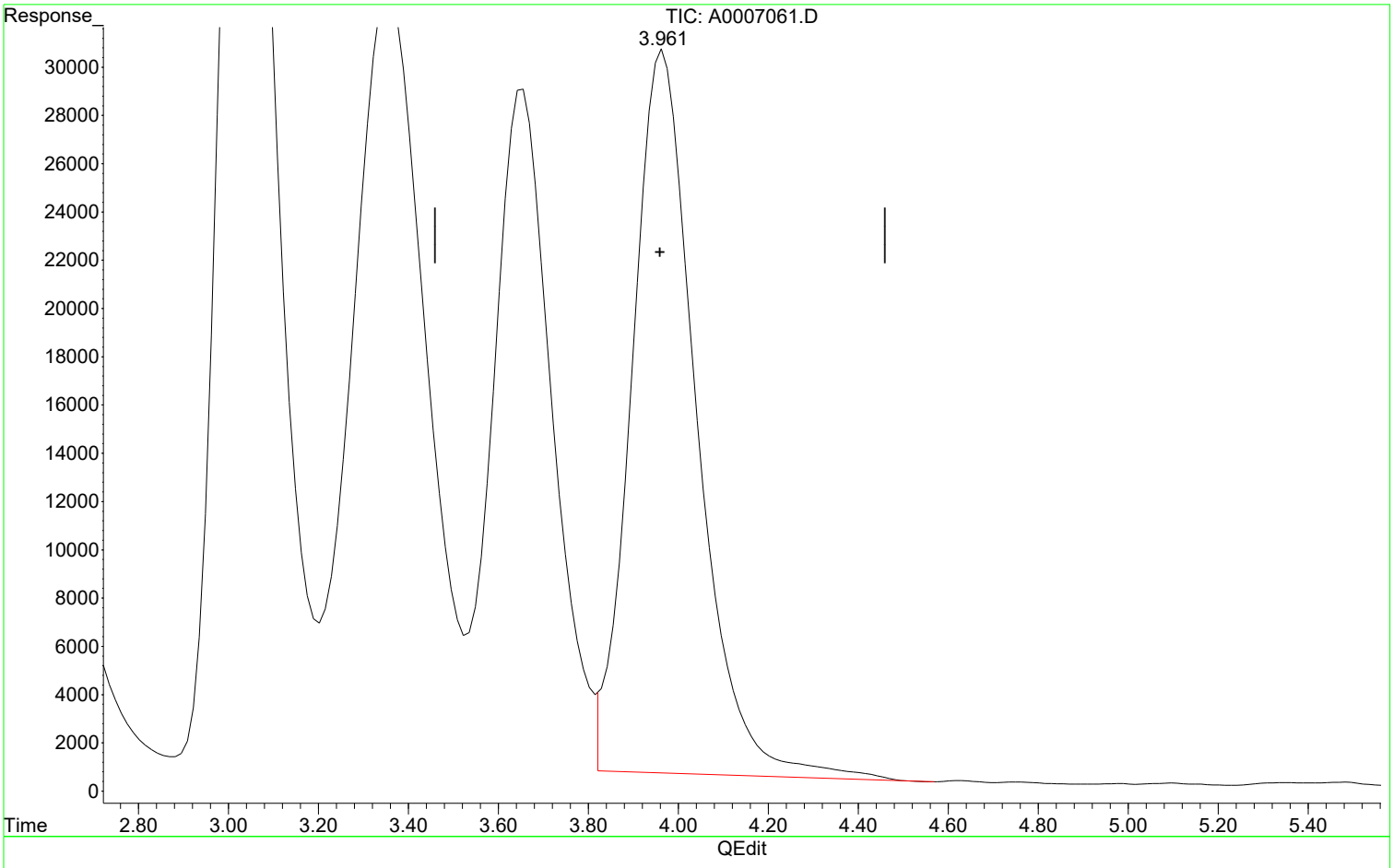
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007061.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 06:25:16
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:47:15 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.966min 52.376 ppm

response 3023229

Manual Integration:

Before

06/19/24

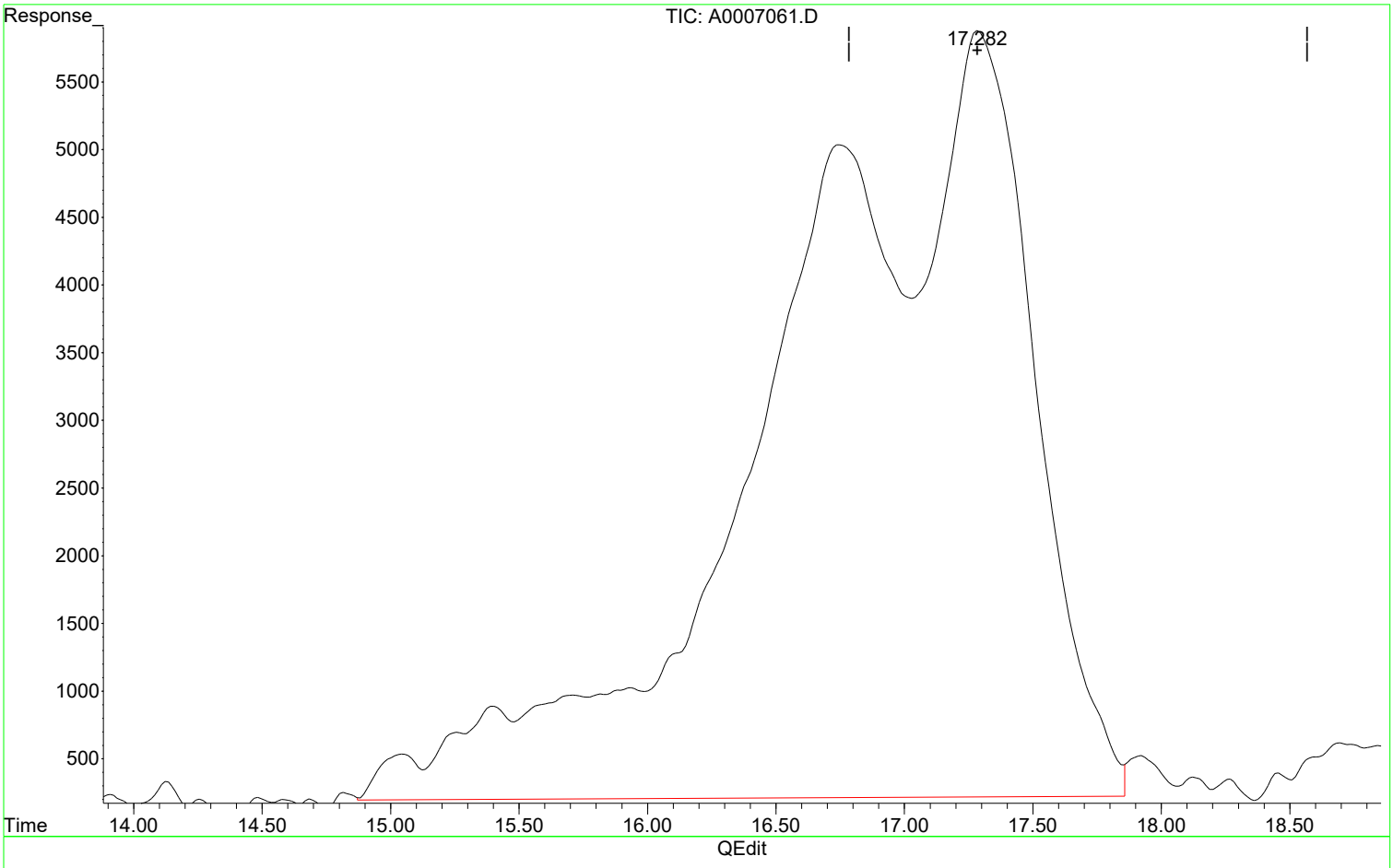
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007061.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 06:25:16
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:47:15 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.282min 49.367 ppm m

response 3809356

Manual Integration:

After

Poor integration.

06/19/24

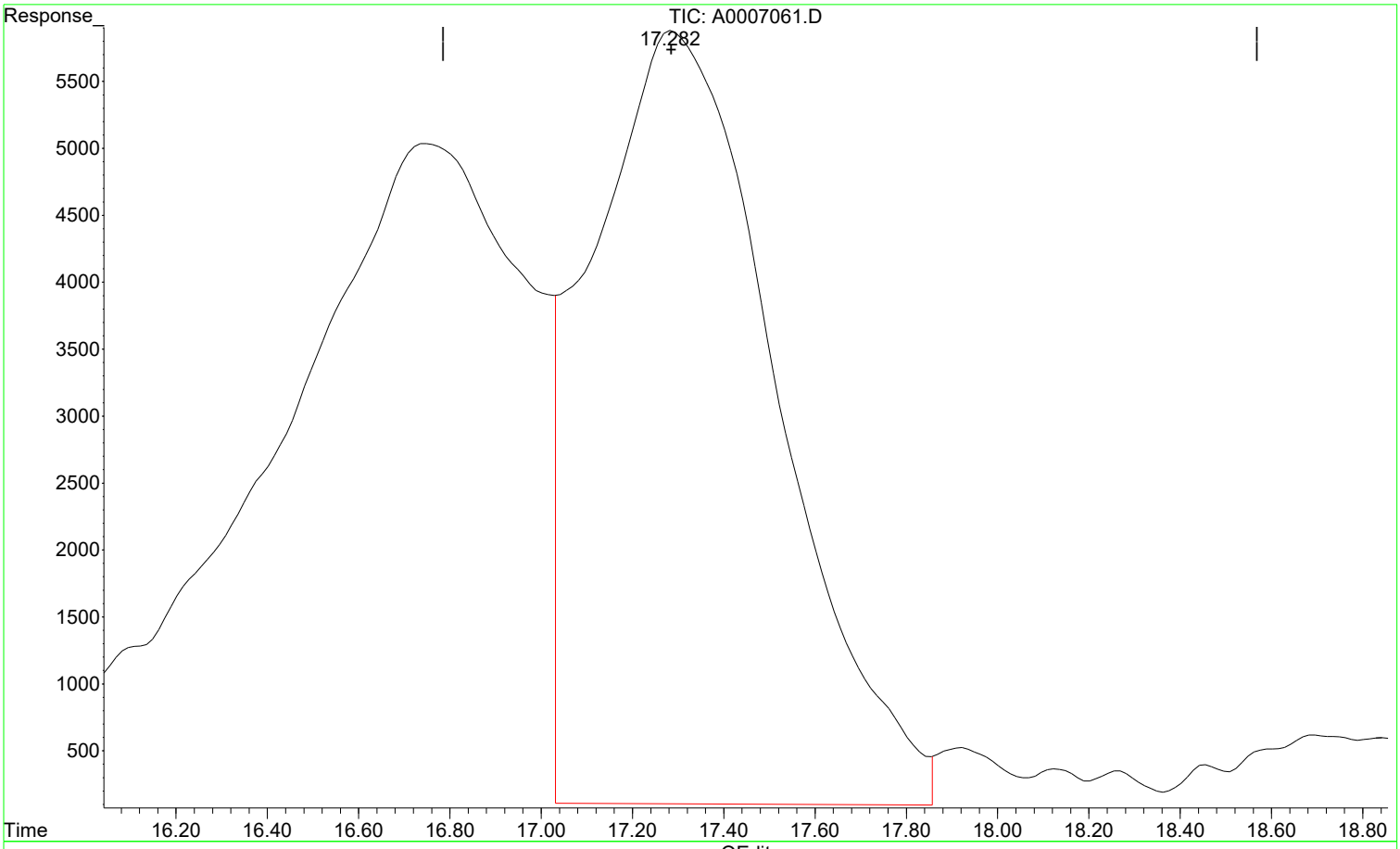
(+) = Expected Retention Time

1st AF 06/19/24
2nd BA 06/19/24

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007061.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 06:25:16
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:47:15 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



QEdit

(6) Butyric Acid (T)

17.289min 21.463 ppm

response 1656201

Manual Integration:

Before

06/19/24

(+) = Expected Retention Time

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007061.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 06:25:16
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:47:15 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 t	Formic acid	50.000	51.484	-3.0	99	0.00
2 T	Pyruvic acid	5.000	5.415	-8.3	99	0.00
3 T	Lactic Acid	50.000	53.667	-7.3	100	0.00
4 T	Acetic Acid	50.000	51.204	-2.4	98	0.00
5 T	Propionic Acid	50.000	48.175	3.7	99	0.00
6 T	Butyric Acid	50.000	49.367	1.3	102	0.00

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007061.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 06:25:16
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:47:15 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.039	4532881	51.484	ppm	
2) T	Pyruvic acid	3.359	3585006	5.415	ppm	
3) T	Lactic Acid	3.655	2567437	53.667	ppm	
4) T	Acetic Acid	3.961	2955593	51.204	ppm	m
5) T	Propionic Acid	7.246	2826638	48.175	ppm	
6) T	Butyric Acid	17.282	3809356	49.367	ppm	m

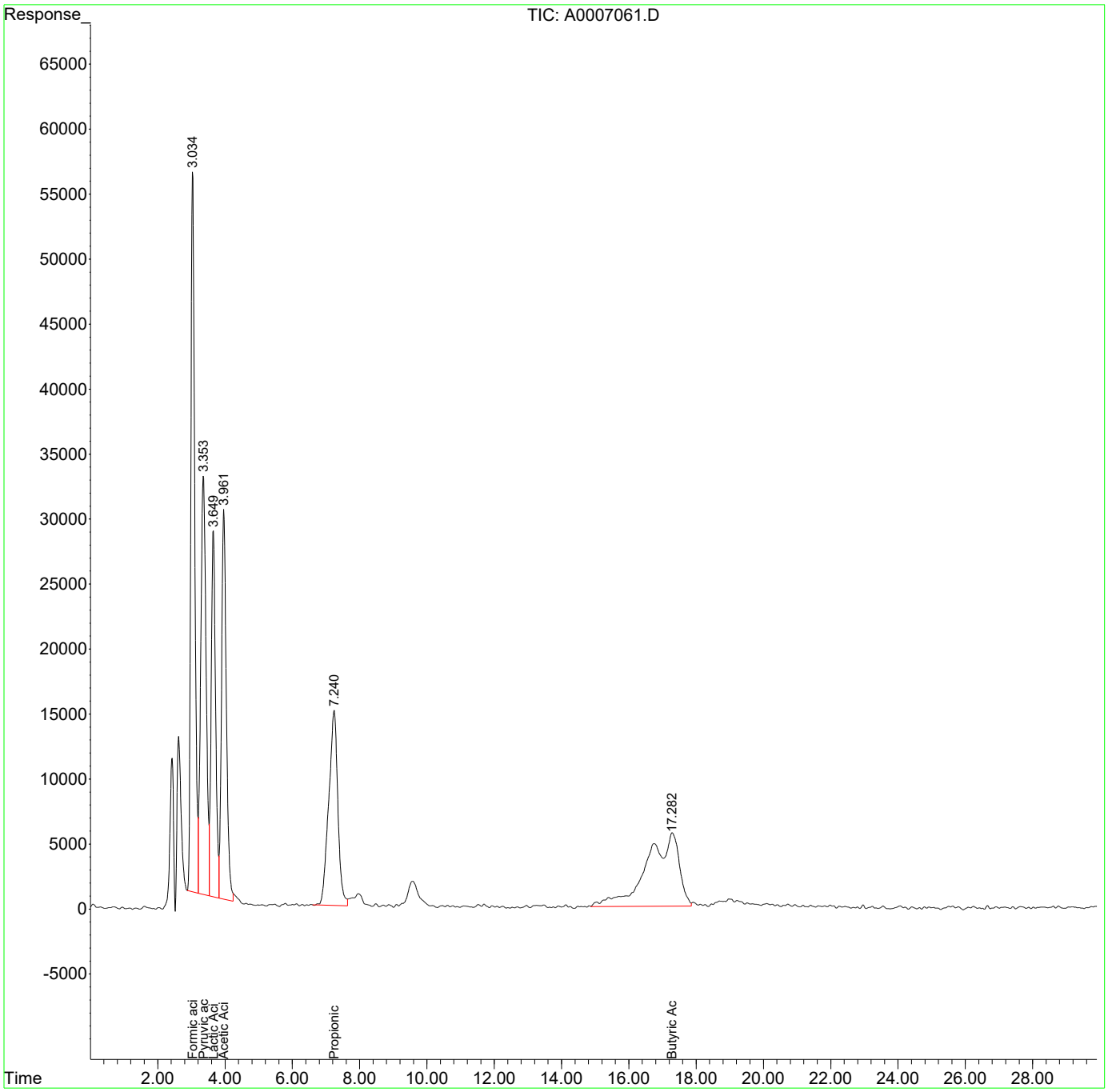
(f)=RT Delta > 1/2 Window (m)=manual int.

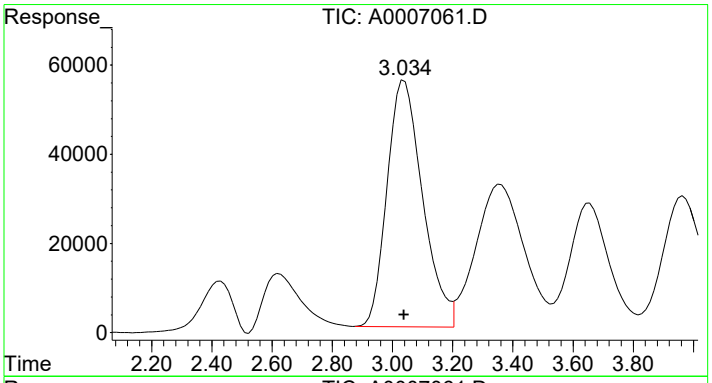
1st AF 06/19/24
2nd BA 06/19/24

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007061.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 06:25:16
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:47:15 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

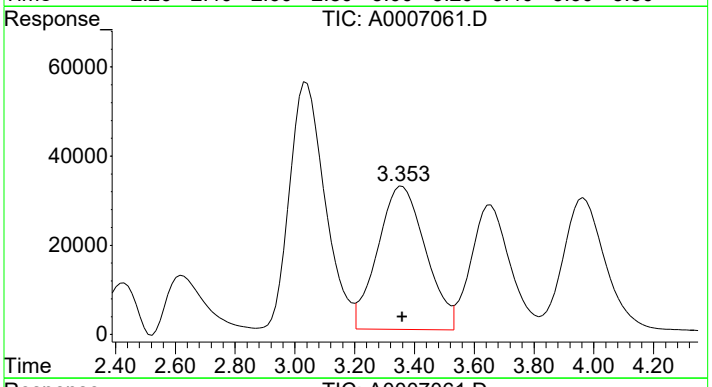
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





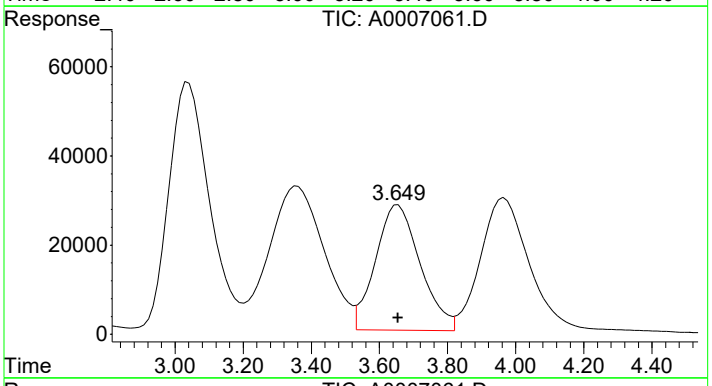
#1 Formic acid

R.T.: 3.039 min
Delta R.T.: 0.000 min
Response: 4532881
Conc: 51.48 ppm



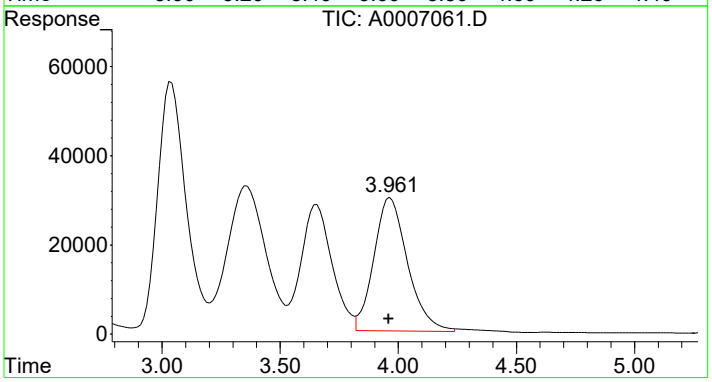
#2 Pyruvic acid

R.T.: 3.359 min
Delta R.T.: 0.000 min
Response: 3585006
Conc: 5.41 ppm



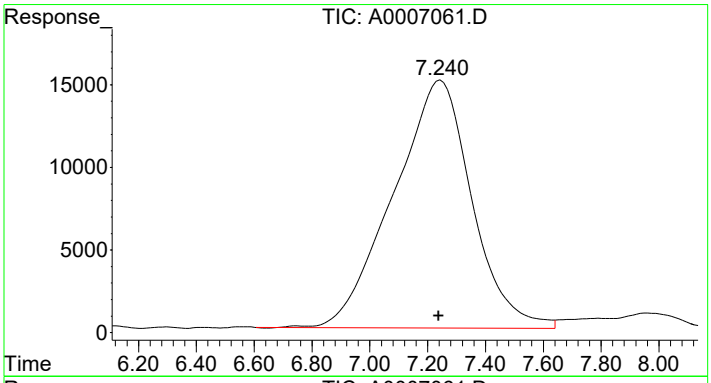
#3 Lactic Acid

R.T.: 3.655 min
Delta R.T.: 0.000 min
Response: 2567437
Conc: 53.67 ppm



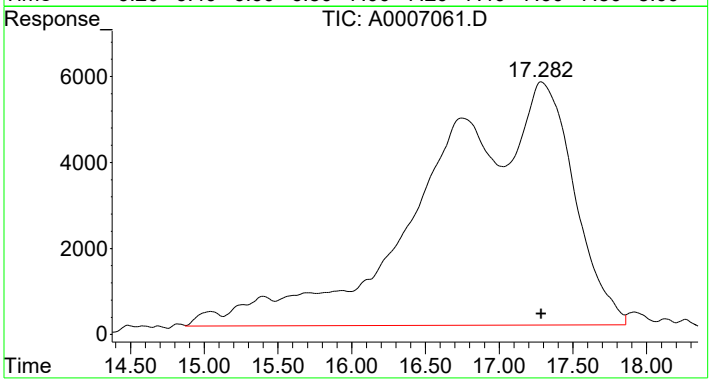
#4 Acetic Acid

R.T.: 3.961 min
Delta R.T.: 0.000 min
Response: 2955593
Conc: 51.20 ppm m



#5 Propionic Acid

R.T.: 7.246 min
Delta R.T.: 0.007 min
Response: 2826638
Conc: 48.18 ppm



#6 Butyric Acid

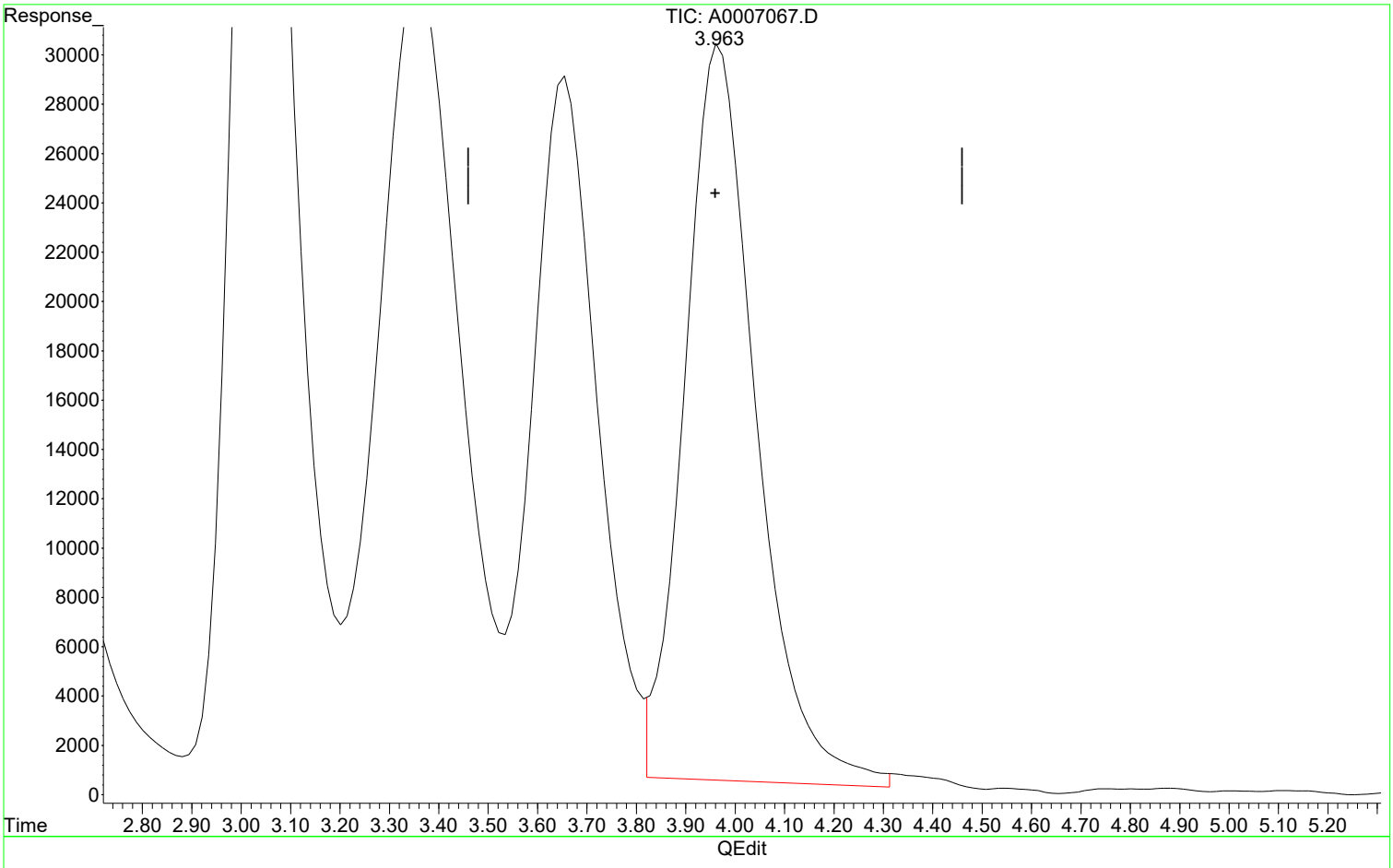
R.T.: 17.282 min
Delta R.T.: -0.003 min
Response: 3809356
Conc: 49.37 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007067.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 09:39:22
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 11:31:53 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.963min 51.982 ppm m

response 3000531

Manual Integration:

After

Poor integration.

06/19/24

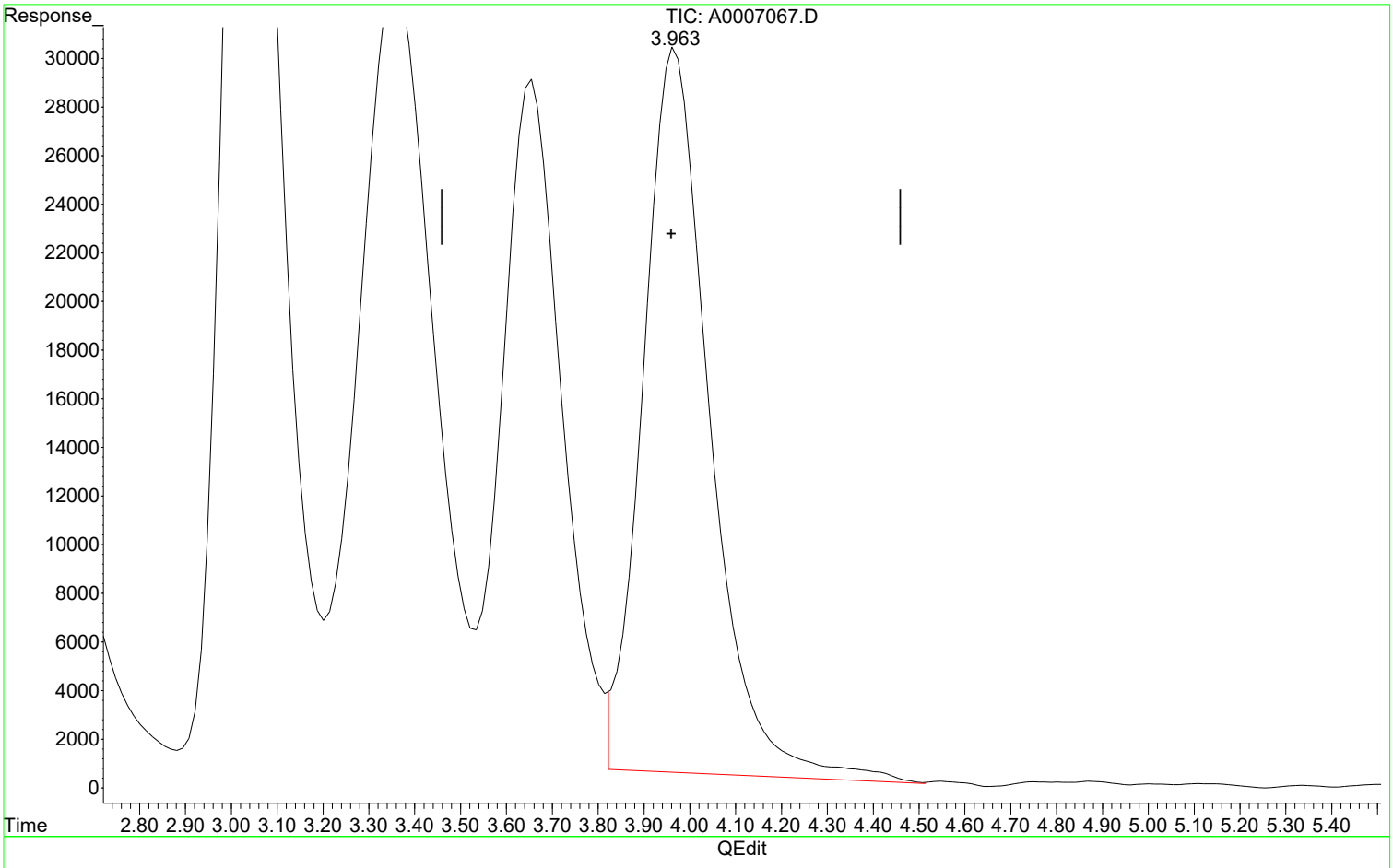
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007067.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 09:39:22
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 11:31:53 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.968min 52.523 ppm

response 3031756

Manual Integration:

Before

06/19/24

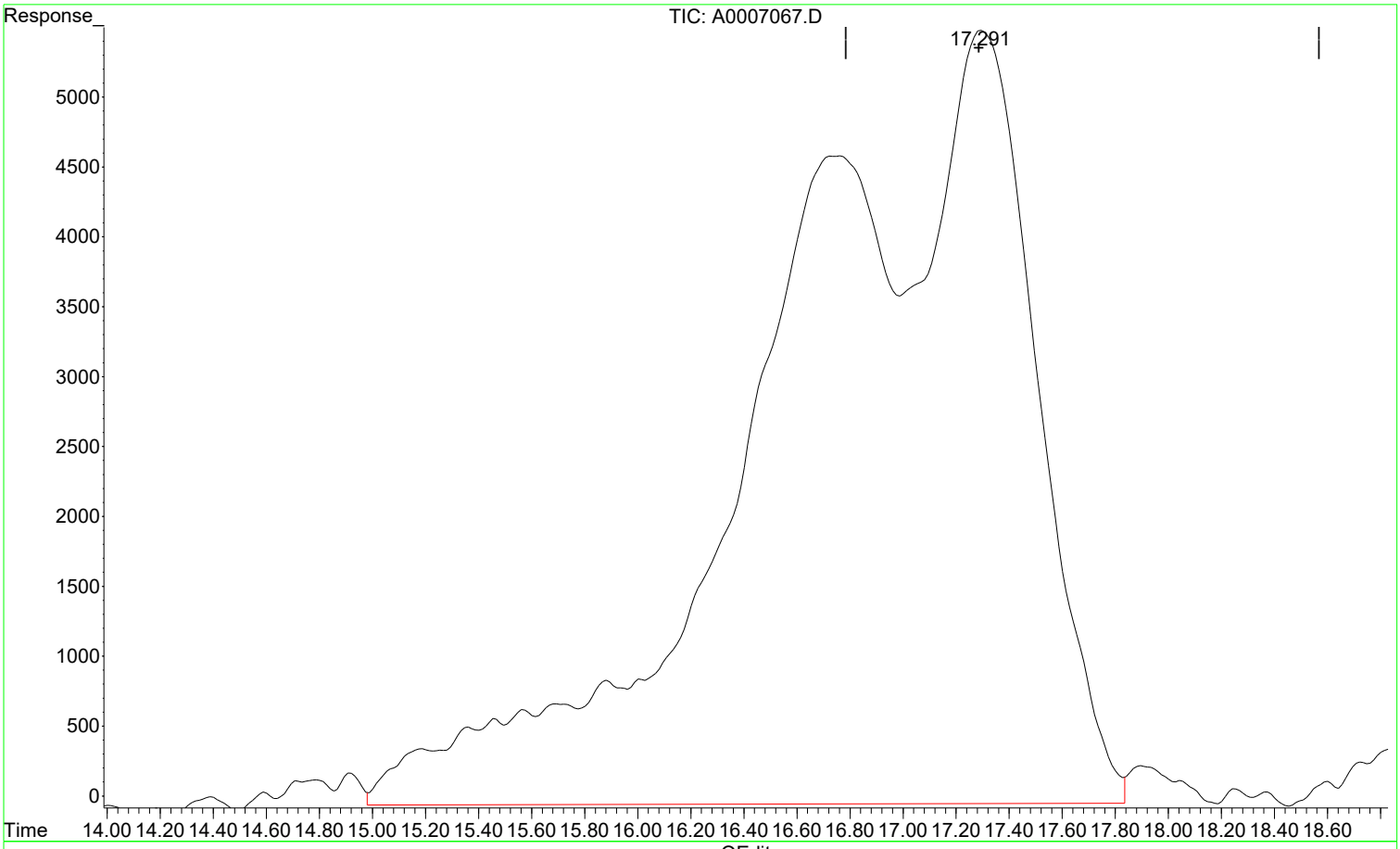
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007067.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 09:39:22
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 11:31:53 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.291min 48.189 ppm m

response 3718429

Manual Integration:

After

Poor integration.

06/19/24

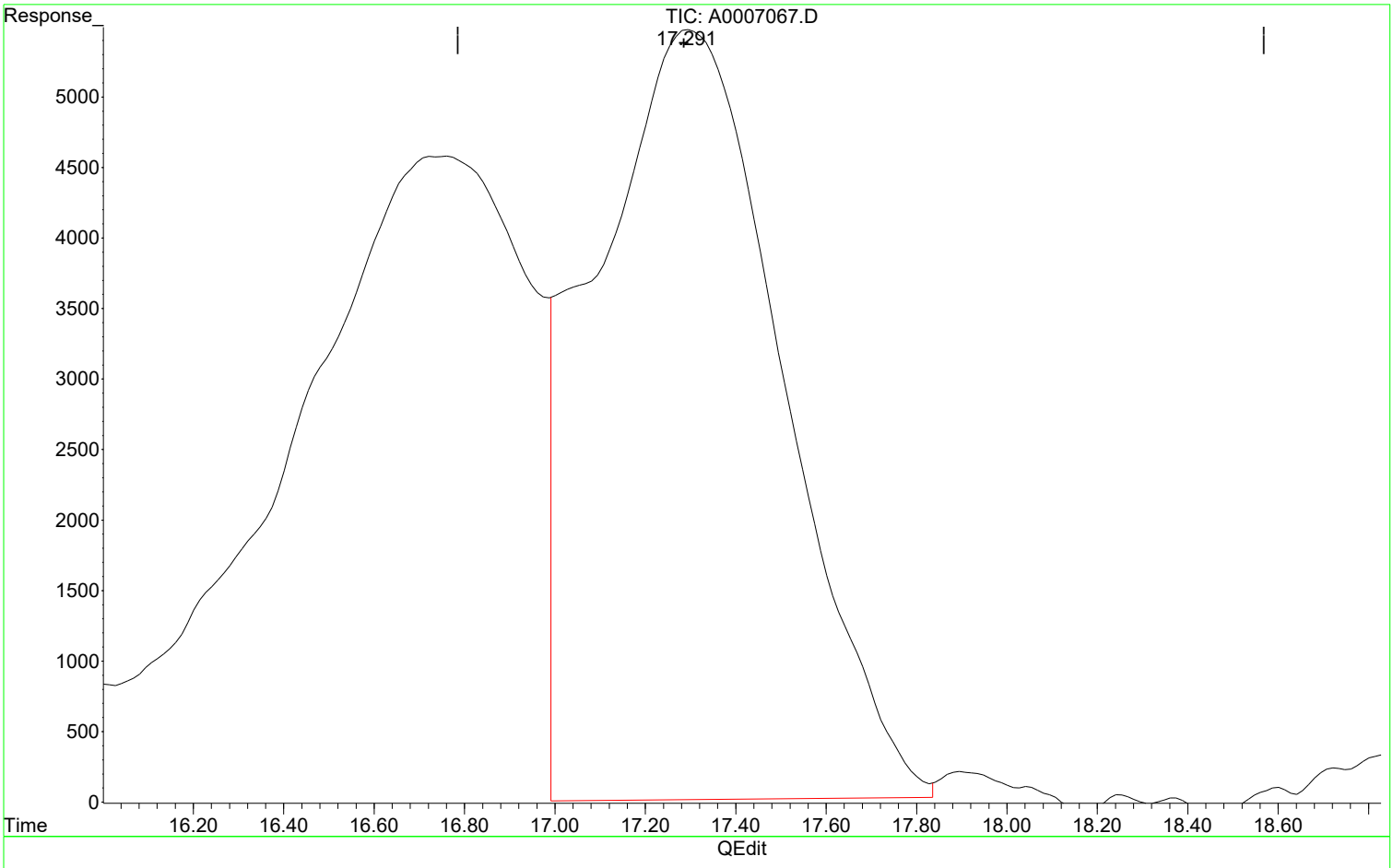
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007067.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 09:39:22
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 11:31:53 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.298min 20.731 ppm

response 1599672

Manual Integration:

Before

06/19/24

(+) = Expected Retention Time

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007067.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 09:39:22
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 11:31:53 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 t	Formic acid	50.000	51.540	-3.1	99	0.00
2 T	Pyruvic acid	5.000	5.394	-7.9	98	0.00
3 T	Lactic Acid	50.000	53.459	-6.9	99	0.00
4 T	Acetic Acid	50.000	51.982	-4.0	100	0.00
5 T	Propionic Acid	50.000	48.659	2.7	100	0.00
6 T	Butyric Acid	50.000	48.189	3.6	99	0.00

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007067.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 09:39:22
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 11:31:53 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.042	4537780	51.540	ppm	
2) T	Pyruvic acid	3.362	3571167	5.394	ppm	
3) T	Lactic Acid	3.657	2557484	53.459	ppm	
4) T	Acetic Acid	3.963	3000531	51.982	ppm	m
5) T	Propionic Acid	7.248	2855006	48.659	ppm	
6) T	Butyric Acid	17.291	3718429	48.189	ppm	m

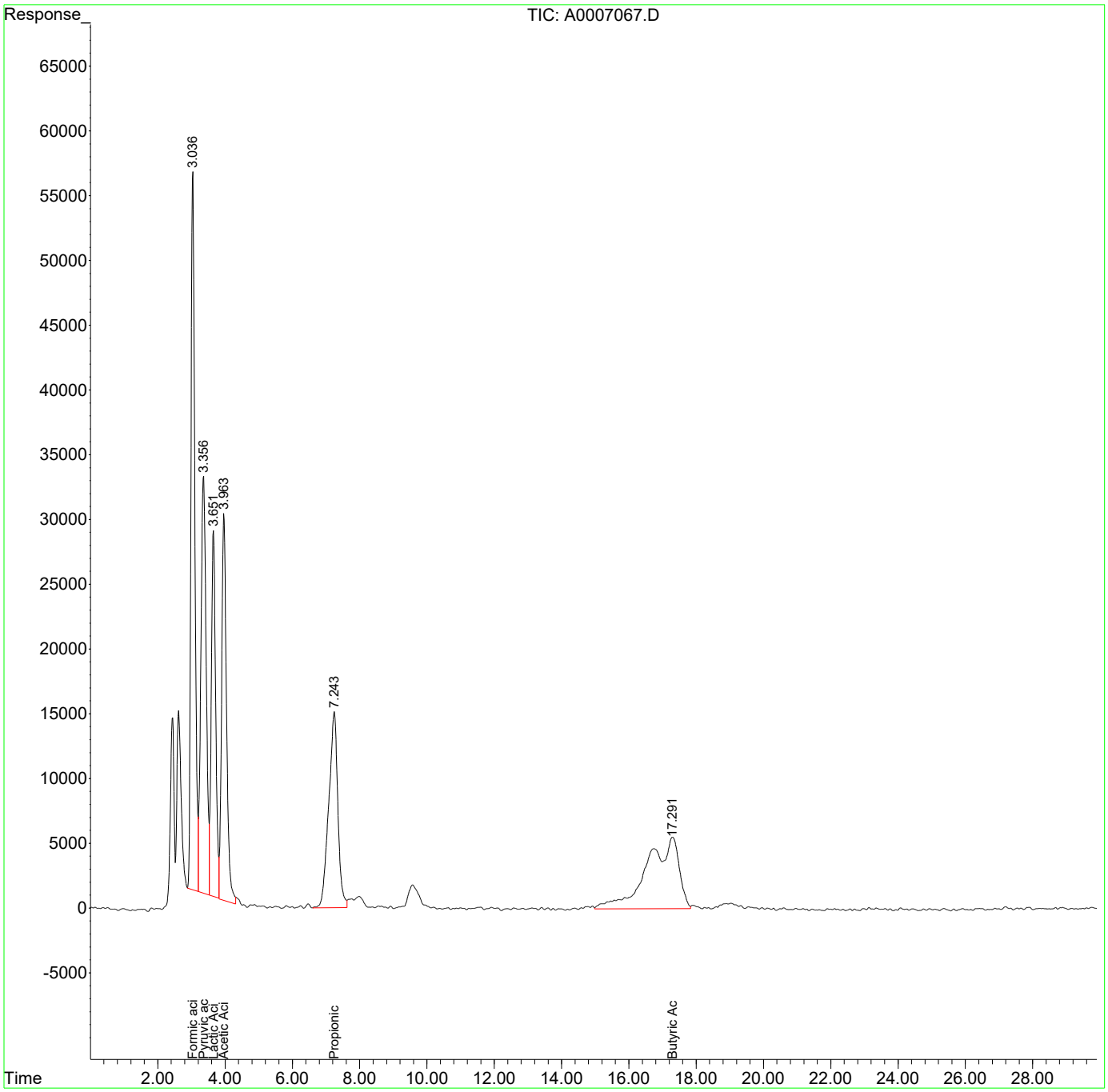
(f)=RT Delta > 1/2 Window (m)=manual int.

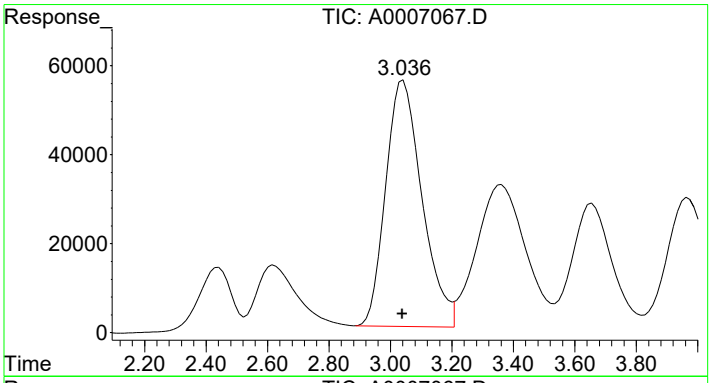
1st AF 06/19/24
2nd BA 06/19/24

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007067.D
Signal(s) : dad1A.ch
Acq On : 19-Jun-2024, 09:39:22
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 11:31:53 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

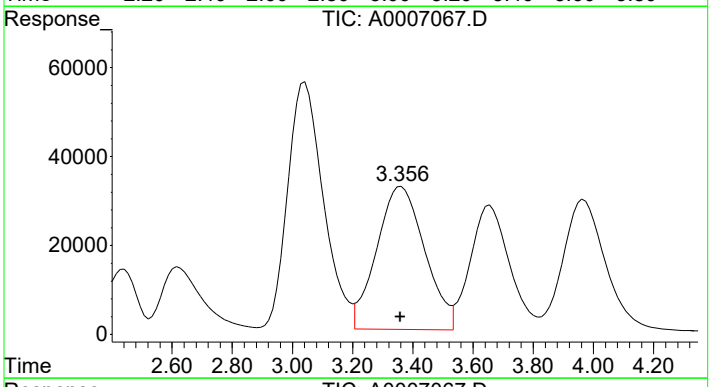
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





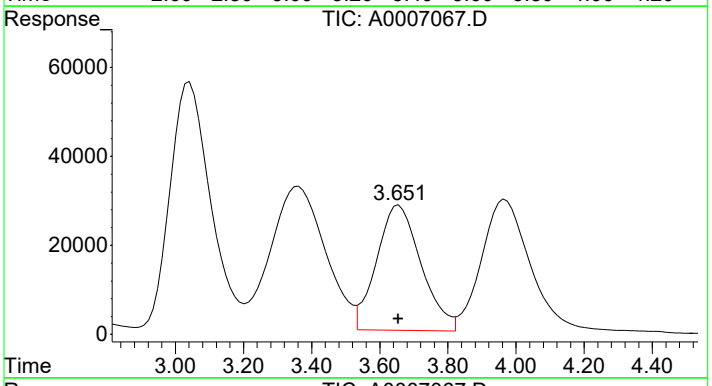
#1 Formic acid

R.T.: 3.042 min
Delta R.T.: 0.003 min
Response: 4537780
Conc: 51.54 ppm



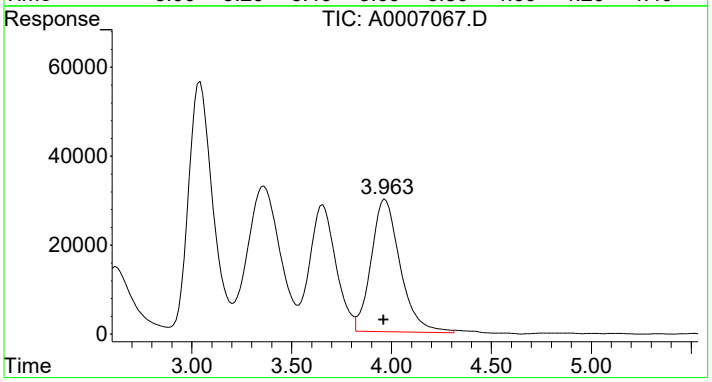
#2 Pyruvic acid

R.T.: 3.362 min
Delta R.T.: 0.003 min
Response: 3571167
Conc: 5.39 ppm



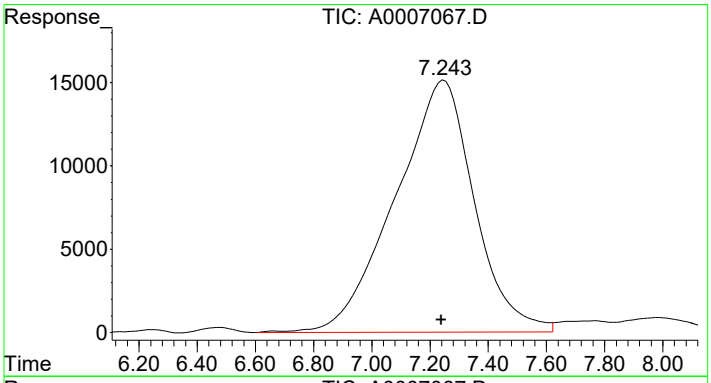
#3 Lactic Acid

R.T.: 3.657 min
Delta R.T.: 0.003 min
Response: 2557484
Conc: 53.46 ppm



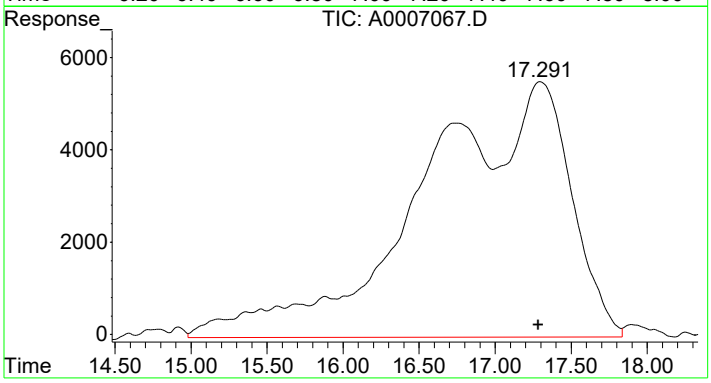
#4 Acetic Acid

R.T.: 3.963 min
Delta R.T.: 0.003 min
Response: 3000531
Conc: 51.98 ppm m



#5 Propionic Acid

R.T.: 7.248 min
Delta R.T.: 0.010 min
Response: 2855006
Conc: 48.66 ppm



#6 Butyric Acid

R.T.: 17.291 min
Delta R.T.: 0.005 min
Response: 3718429
Conc: 48.19 ppm m

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006827.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 01:56:05
Operator : AFelser
Sample : ICV
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:13:50 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:13:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.040	4716384	52.126	ppm	
2) T	Pyruvic acid	3.364	2695633	5.998	ppm	
3) T	Lactic Acid	3.669	2602812	55.339	ppm	
4) T	Acetic Acid	3.983	3022339	51.744	ppm	
5) T	Propionic Acid	7.316	2779514	49.603	ppm	m
6) T	Butyric Acid	17.600	3975517	48.588	ppm	m

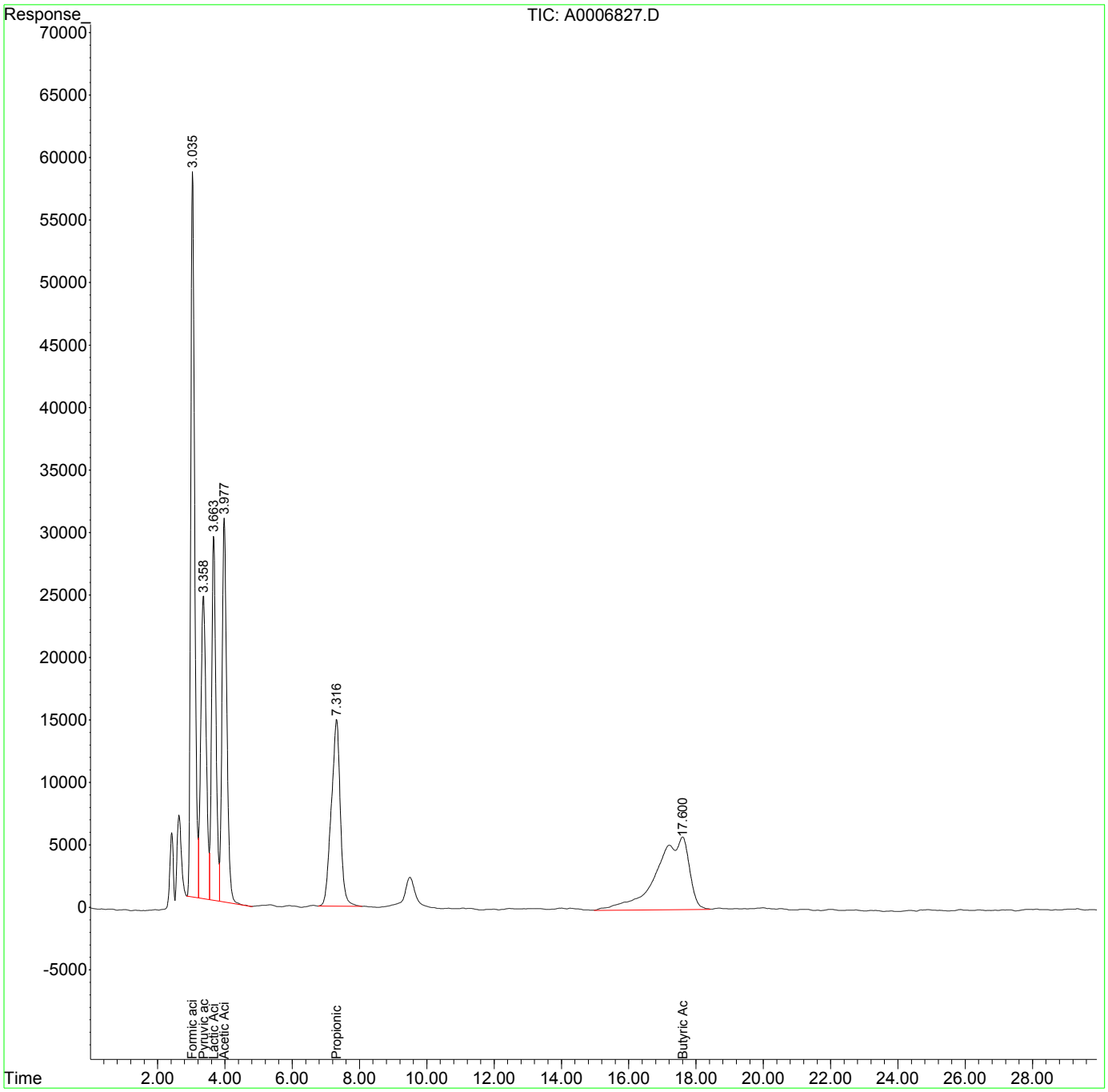
(f)=RT Delta > 1/2 Window (m)=manual int.

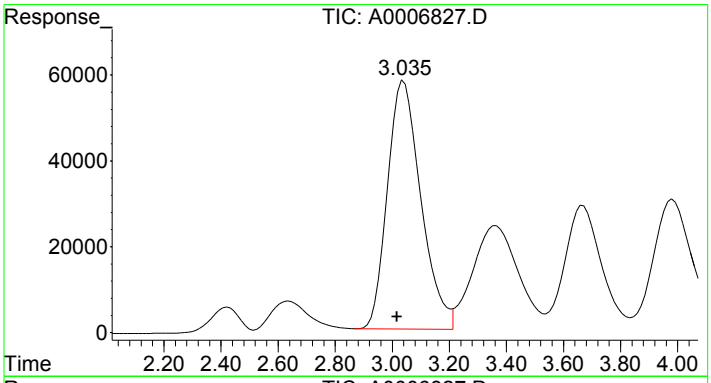
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006827.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 01:56:05
Operator : AFelser
Sample : ICV
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:13:50 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:13:37 2024
Response via : Initial Calibration
Integrator: ChemStation

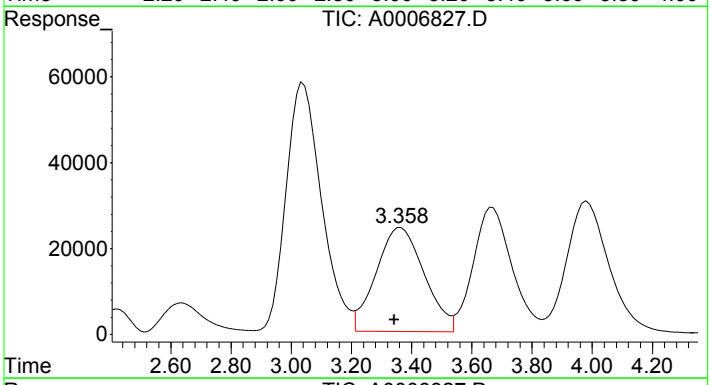
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





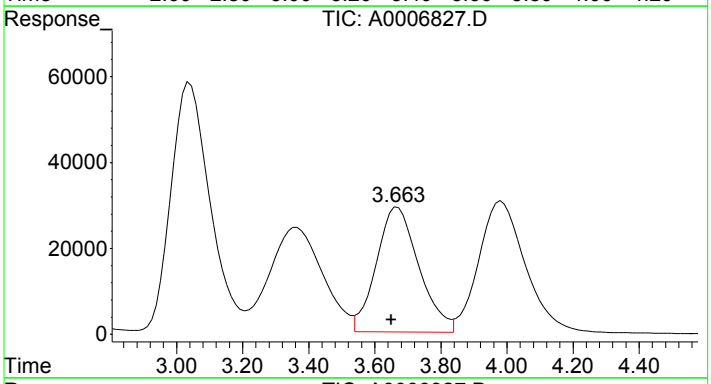
#1 Formic acid

R.T.: 3.040 min
Delta R.T.: 0.023 min
Response: 4716384
Conc: 52.13 ppm



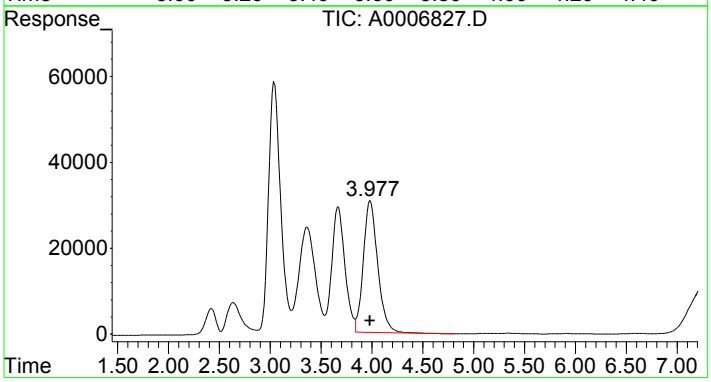
#2 Pyruvic acid

R.T.: 3.364 min
Delta R.T.: 0.021 min
Response: 2695633
Conc: 6.00 ppm



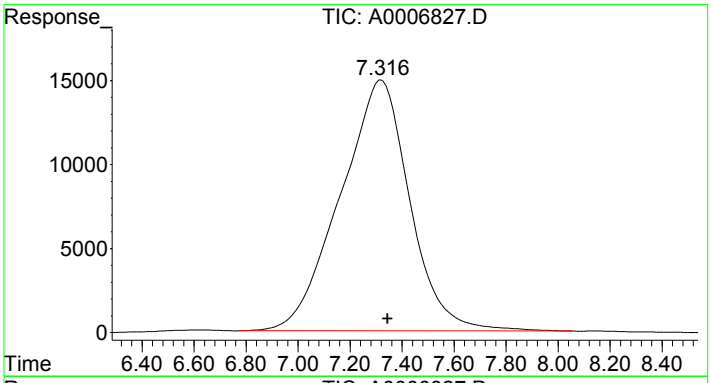
#3 Lactic Acid

R.T.: 3.669 min
Delta R.T.: 0.019 min
Response: 2602812
Conc: 55.34 ppm



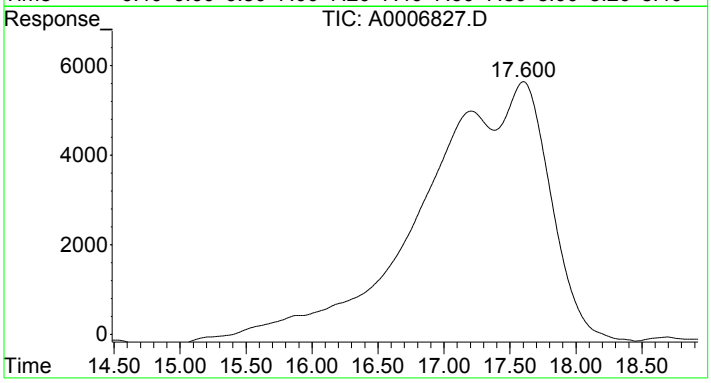
#4 Acetic Acid

R.T.: 3.983 min
Delta R.T.: 0.004 min
Response: 3022339
Conc: 51.74 ppm



#5 Propionic Acid

R.T.: 7.316 min
Delta R.T.: -0.029 min
Response: 2779514
Conc: 49.60 ppm m



#6 Butyric Acid

R.T.: 17.600 min
Delta R.T.: -0.173 min
Response: 3975517
Conc: 48.59 ppm m

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006818.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 21:05:05
Operator : AFelser
Sample : INST BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:15:33 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:13:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) t	Formic acid	0.000	0	N.D.	ppm
2) T	Pyruvic acid	0.000	0	N.D.	ppm
3) T	Lactic Acid	0.000	0	N.D.	ppm
4) T	Acetic Acid	0.000	0	N.D.	ppm
5) T	Propionic Acid	0.000	0	N.D.	ppm
6) T	Butyric Acid	0.000	0	N.D.	ppm

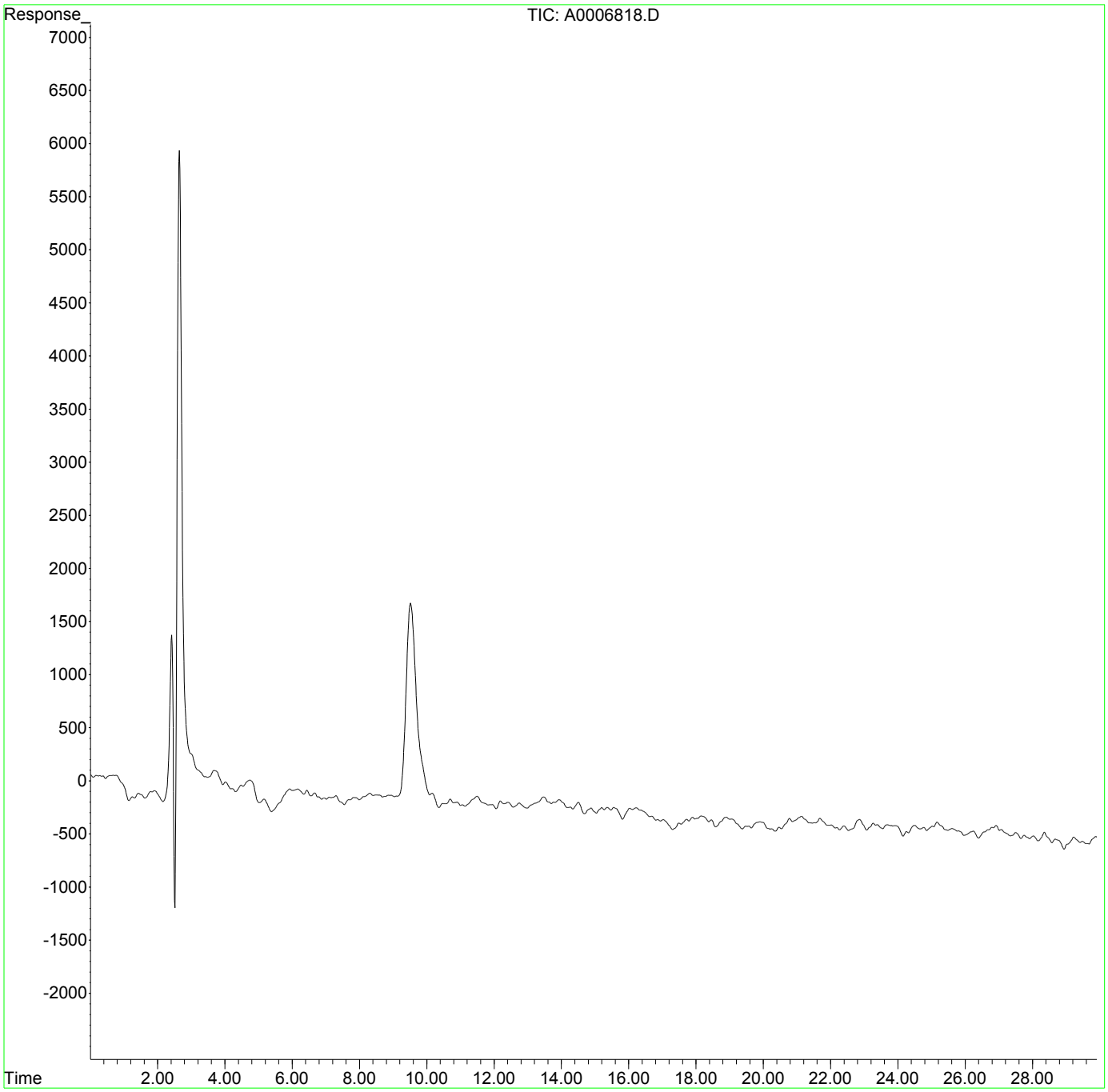
(f)=RT Delta > 1/2 Window (m)=manual int.

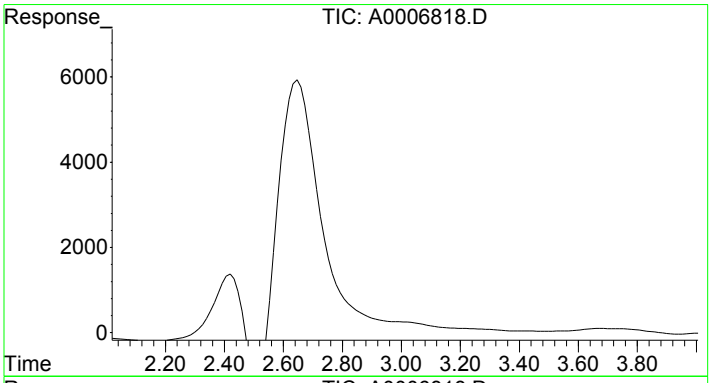
1st 06/10/24
2nd 06/10/24

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006818.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 21:05:05
Operator : AFelser
Sample : INST BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:15:33 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:13:37 2024
Response via : Initial Calibration
Integrator: ChemStation

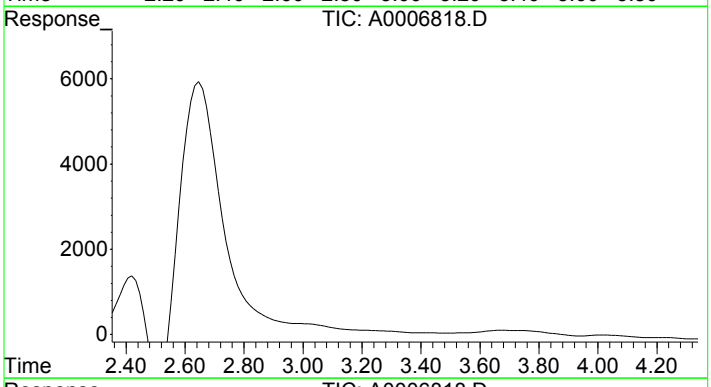
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





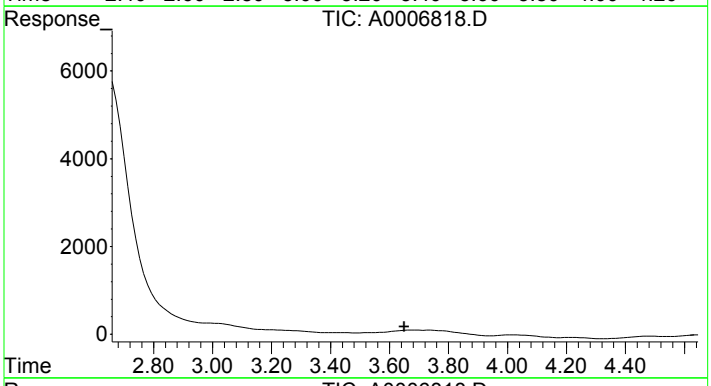
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.017 min
Response: 0
Conc: N.D.



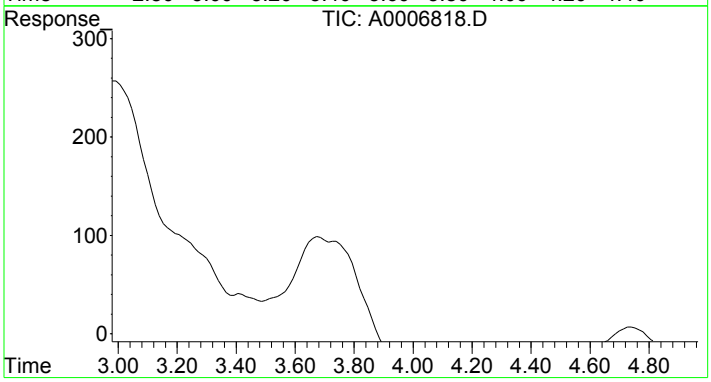
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.343 min
Response: 0
Conc: N.D.



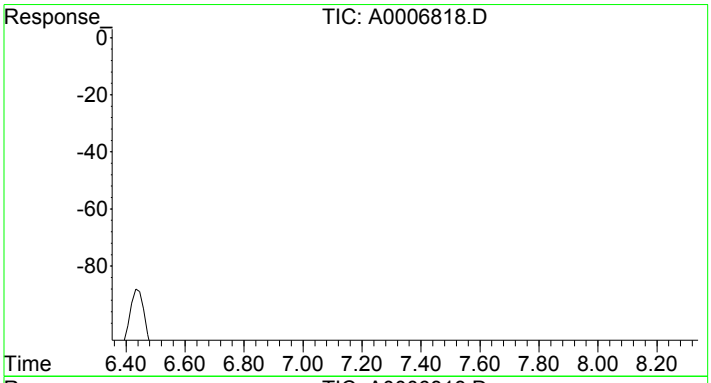
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.650 min
Response: 0
Conc: N.D.



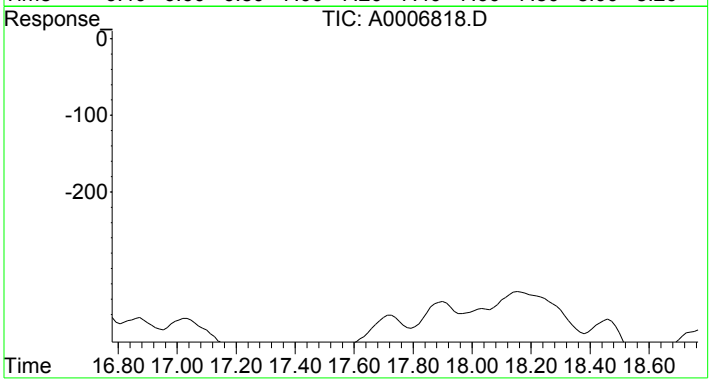
#4 Acetic Acid

R.T.: 0.000 min
Exp R.T. : 3.979 min
Response: 0
Conc: N.D.



#5 Propionic Acid

R.T.: 0.000 min
Exp R.T. : 7.345 min
Response: 0
Conc: N.D.



#6 Butyric Acid

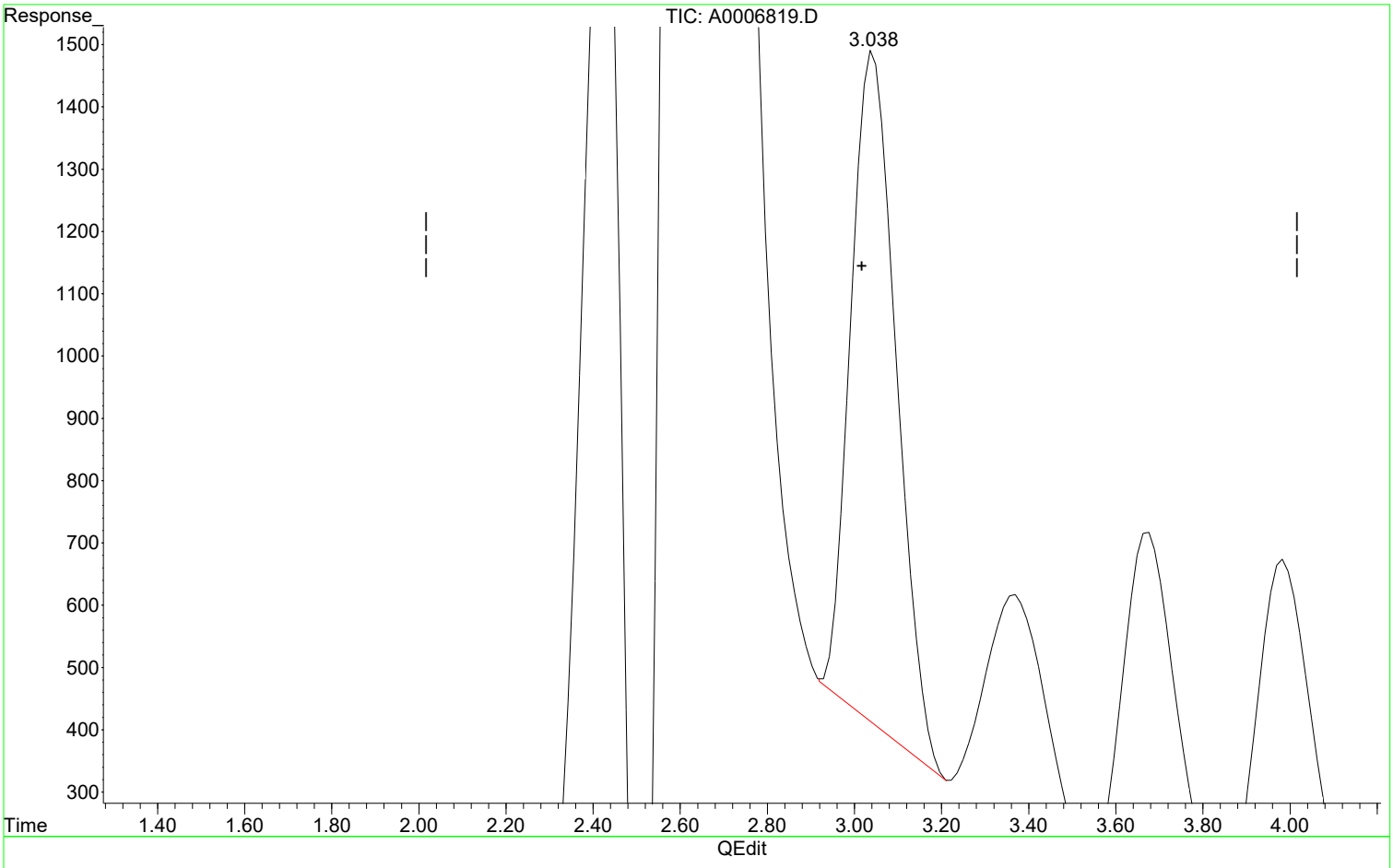
R.T.: 0.000 min
Exp R.T. : 17.773 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006819.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 21:37:21
Operator : AFelser
Sample : 0.1/1 STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:24 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)

3.038min 0.832 ppm m

response 78821

Manual Integration:

After

Poor integration.

06/07/24

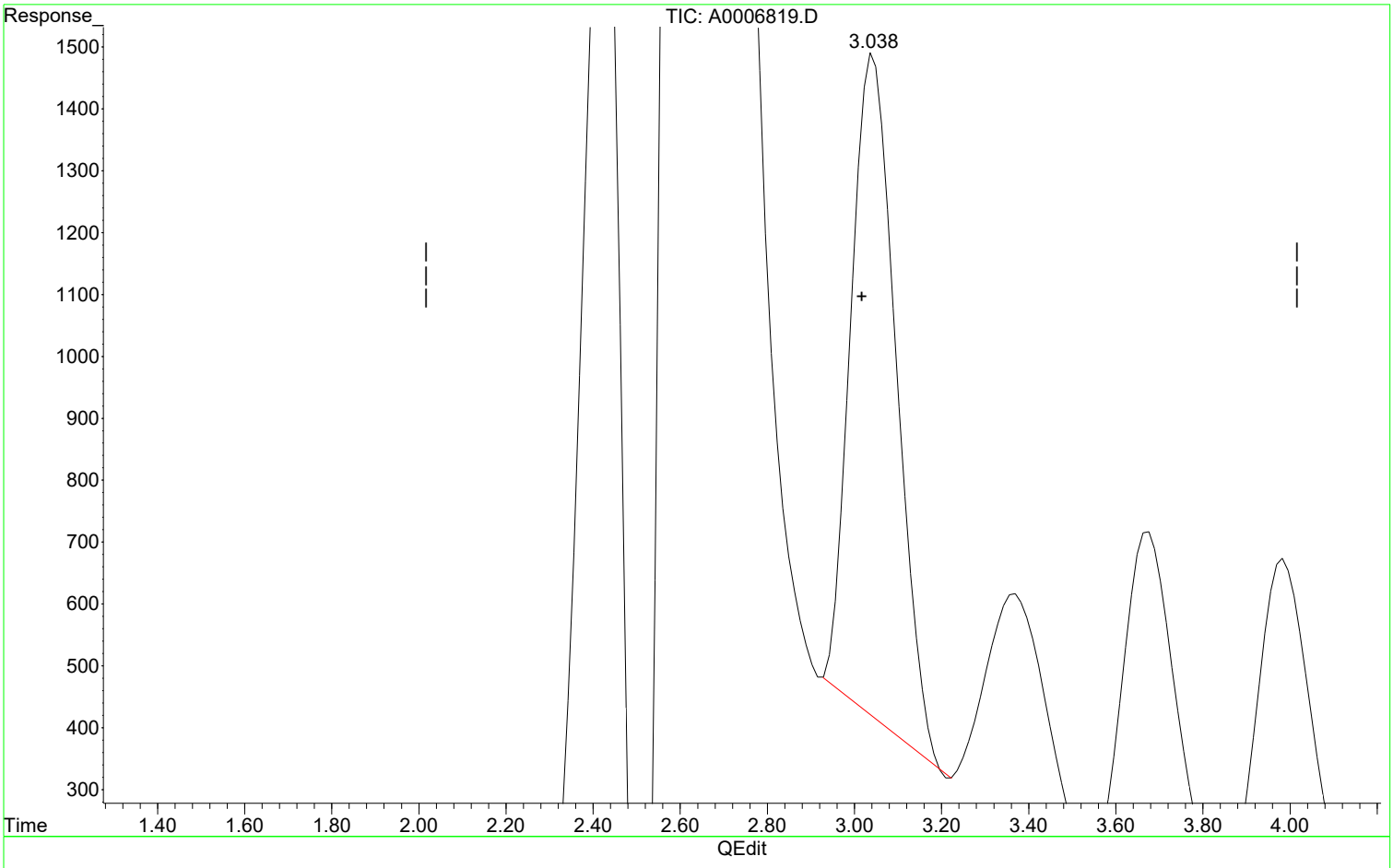
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006819.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 21:37:21
Operator : AFelser
Sample : 0.1/1 STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:24 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)

3.044min 0.823 ppm

response 77932

Manual Integration:

Before

06/07/24

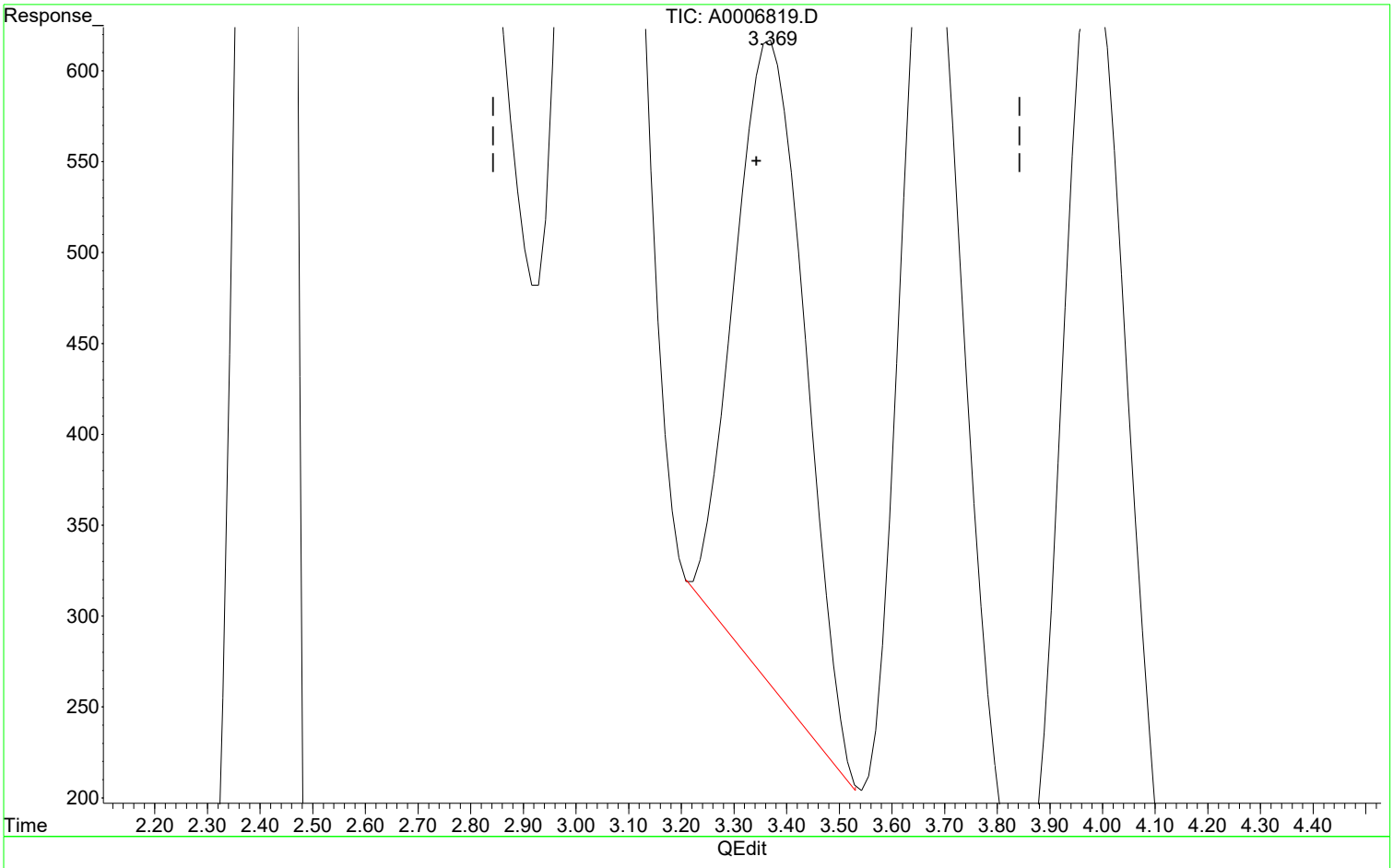
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006819.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 21:37:21
Operator : AFelser
Sample : 0.1/1 STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:24 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(2) Pyruvic acid (T)

3.369min 0.066 ppm m

response 32932

Manual Integration:

After

Poor integration.

06/07/24

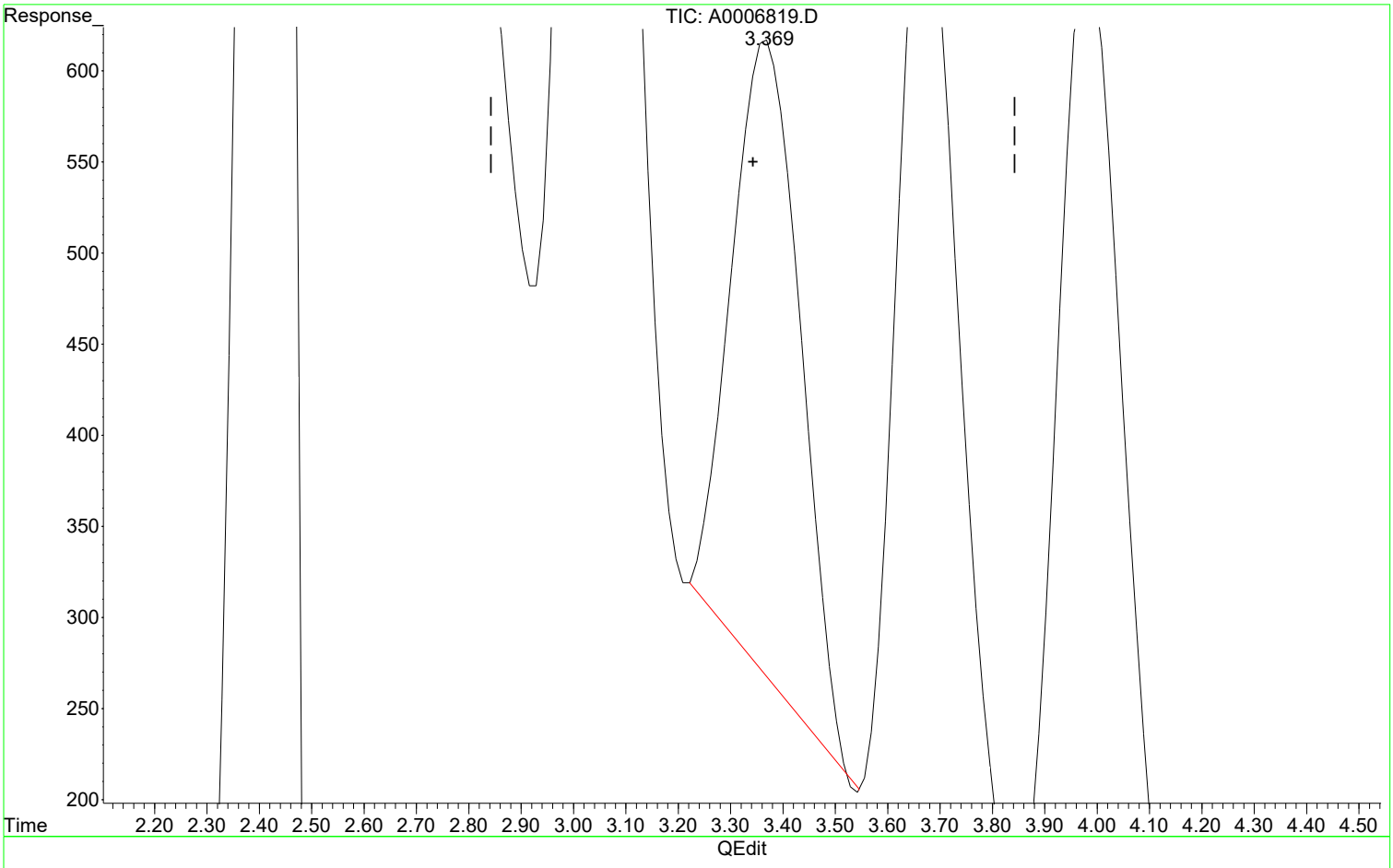
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006819.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 21:37:21
Operator : AFelser
Sample : 0.1/1 STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:24 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(2) Pyruvic acid (T)

3.370min 0.064 ppm

response 32206

Manual Integration:

Before

06/07/24

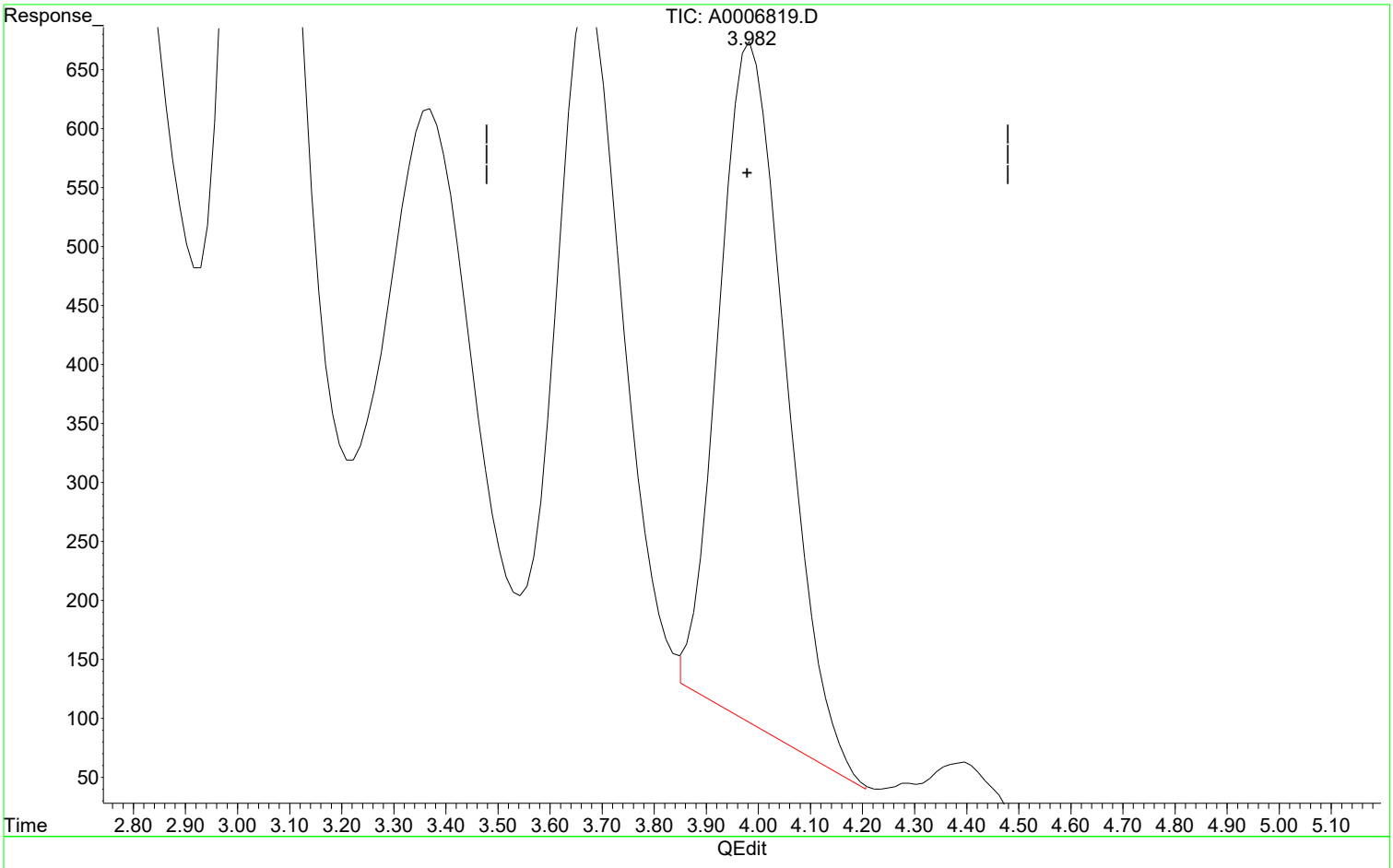
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006819.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 21:37:21
Operator : AFelser
Sample : 0.1/1 STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:24 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.982min 0.856 ppm m

response 51645

Manual Integration:

After

Poor integration.

06/07/24

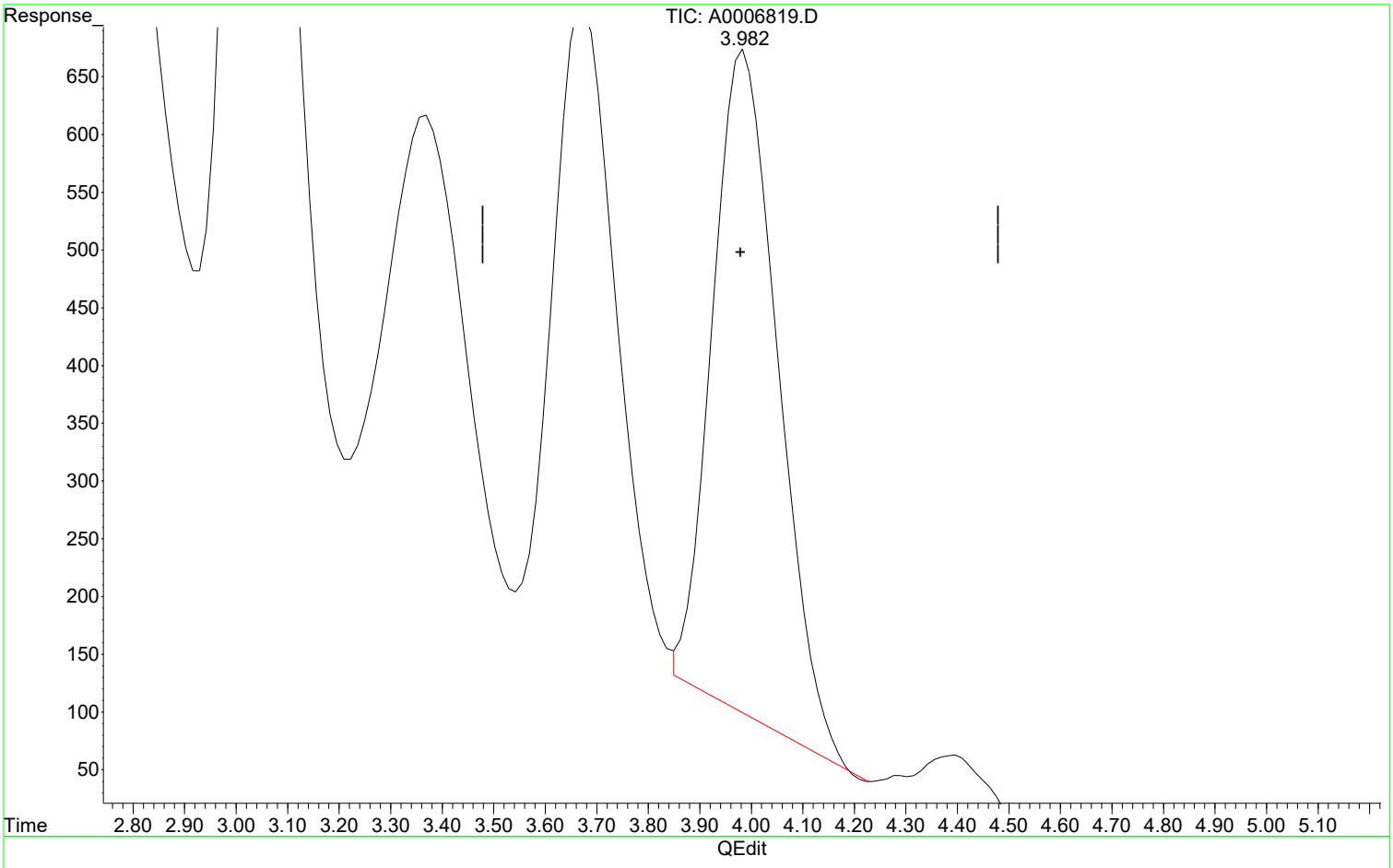
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006819.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 21:37:21
Operator : AFelser
Sample : 0.1/1 STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:24 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.986min 0.851 ppm

response 51326

Manual Integration:

Before

06/07/24

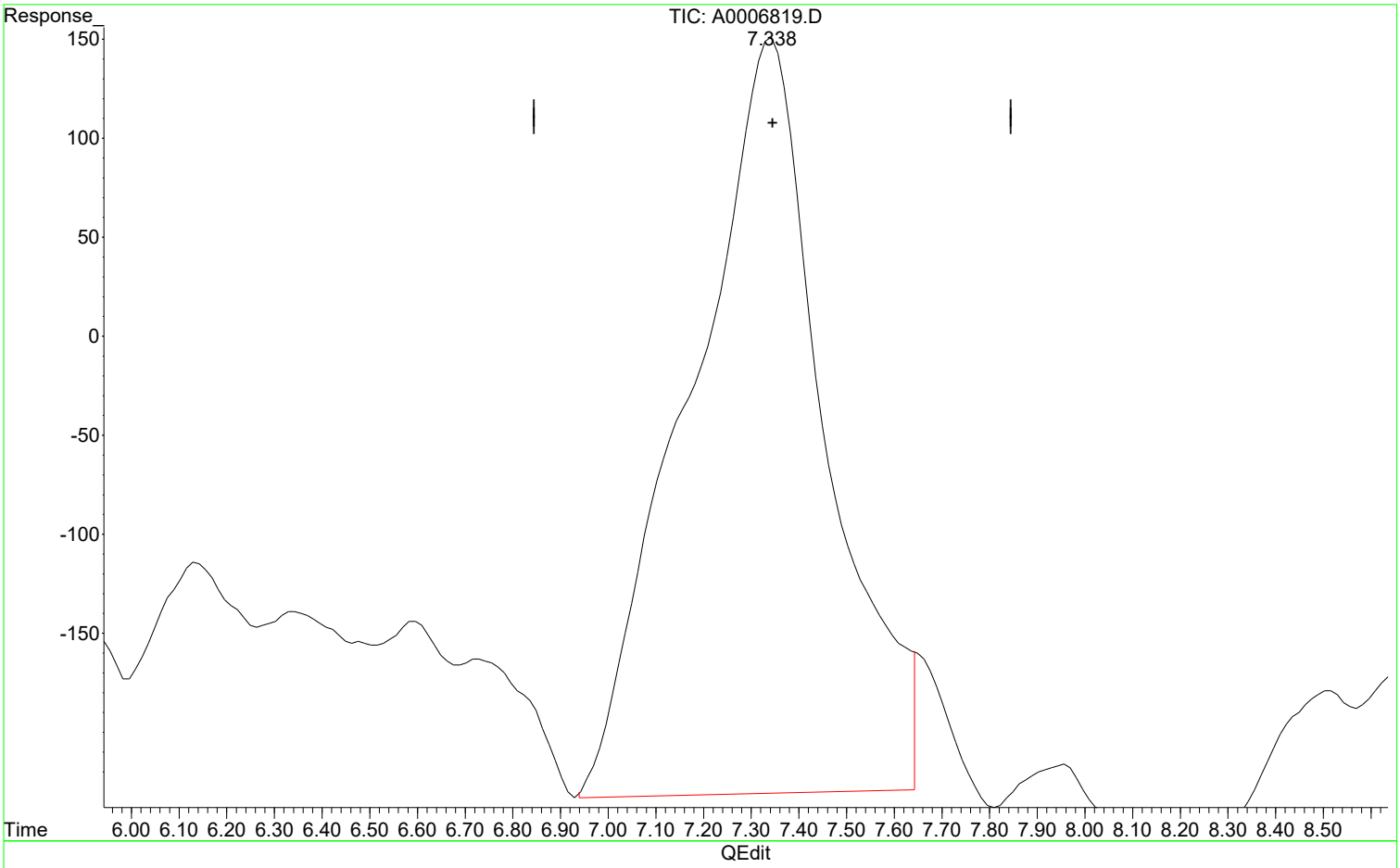
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006819.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 21:37:21
Operator : AFelser
Sample : 0.1/1 STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:24 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.338min 1.341 ppm m

response 75468

Manual Integration:

After

Poor integration.

06/07/24

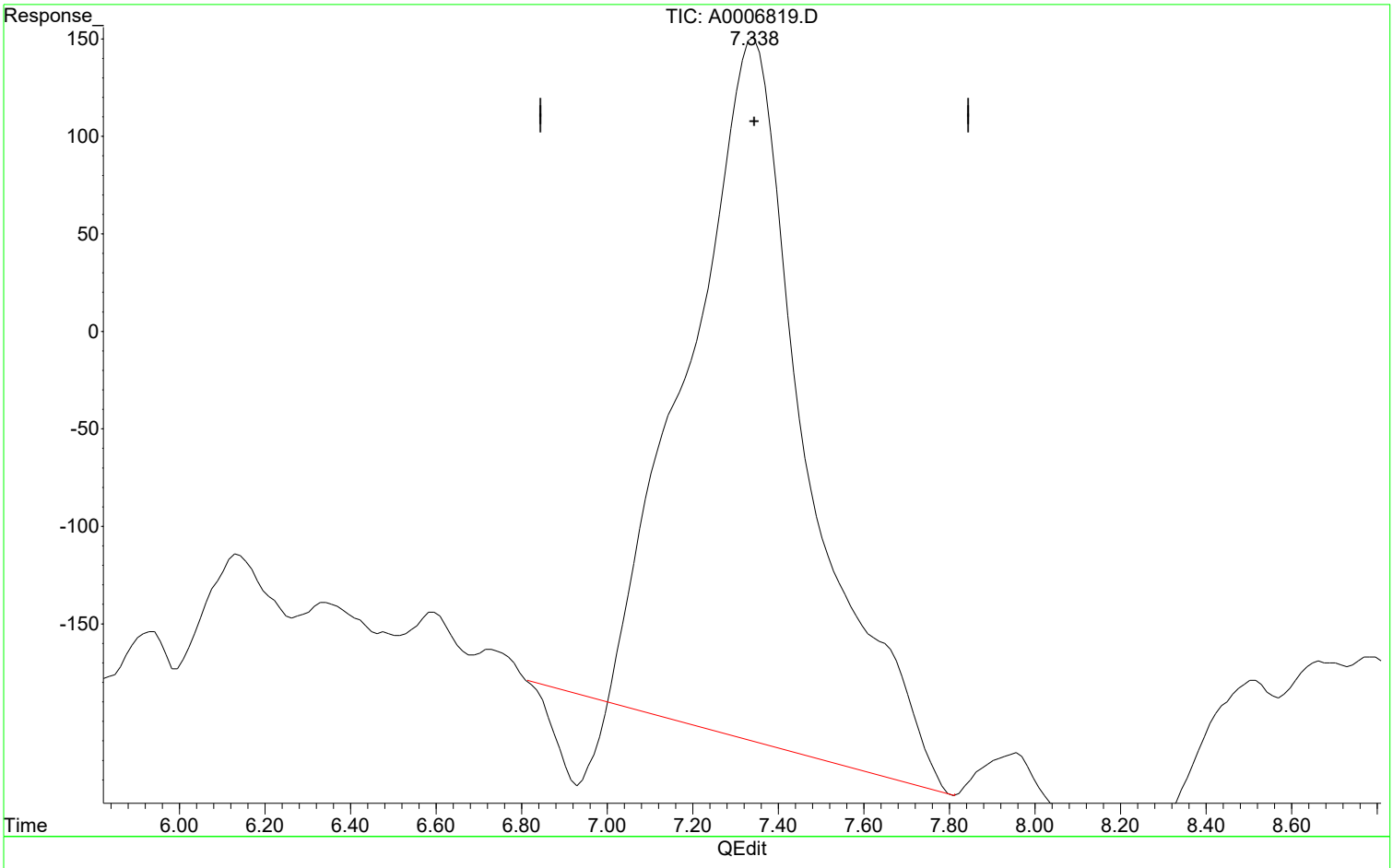
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006819.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 21:37:21
Operator : AFelser
Sample : 0.1/1 STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:24 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.343min 1.197 ppm

response 67387

Manual Integration:

Before

06/07/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006819.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 21:37:21
Operator : AFelser
Sample : 0.1/1 STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:24 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.038	78821	0.832	ppm	m
2) T	Pyruvic acid	3.369	32932	0.066	ppm	m
3) T	Lactic Acid	3.676	44513	0.893	ppm	
4) T	Acetic Acid	3.982	51645	0.856	ppm	m
5) T	Propionic Acid	7.338	75468	1.341	ppm	m
6) T	Butyric Acid	0.000	0	N.D.	ppm	

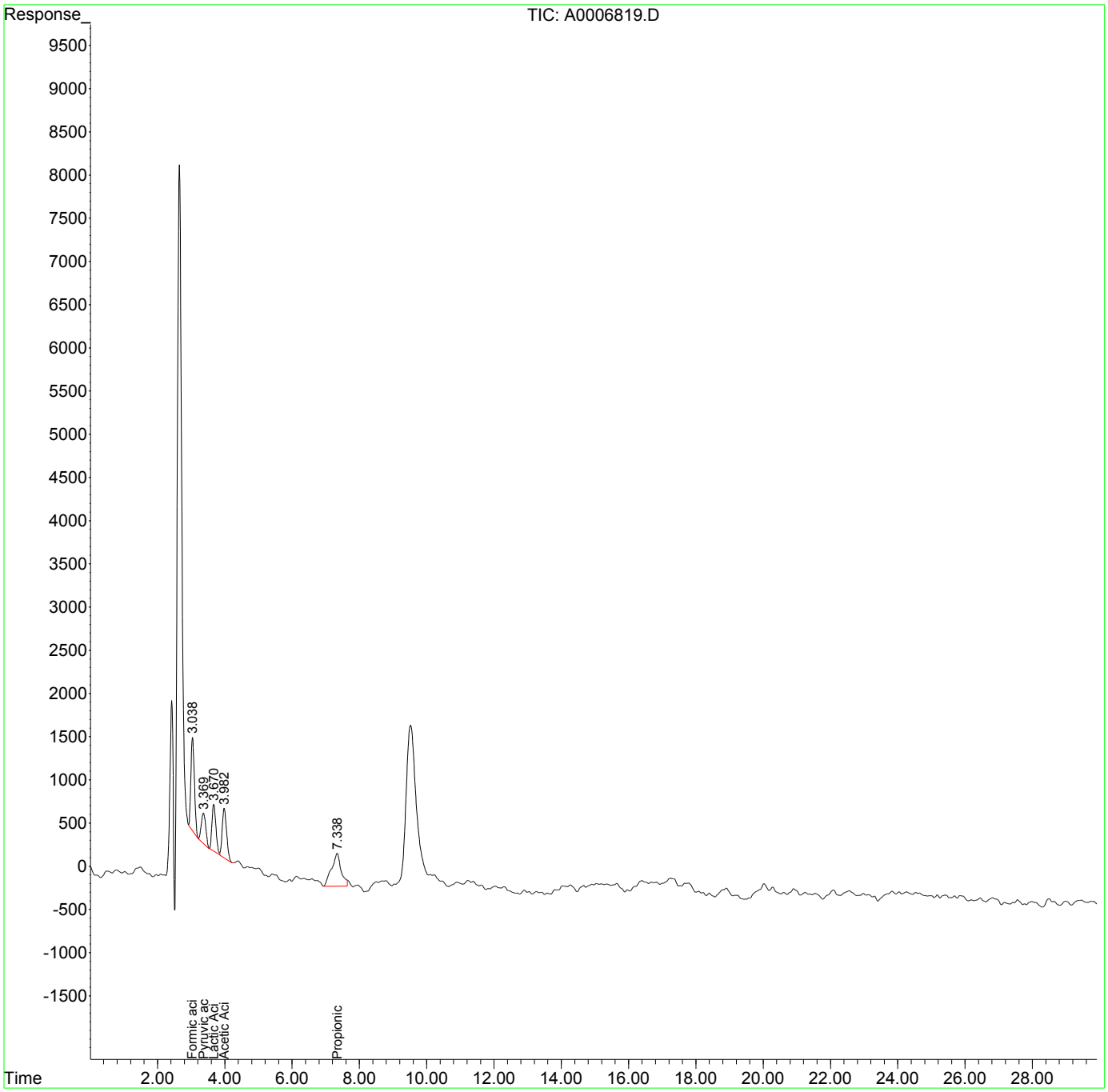
(f)=RT Delta > 1/2 Window (m)=manual int.

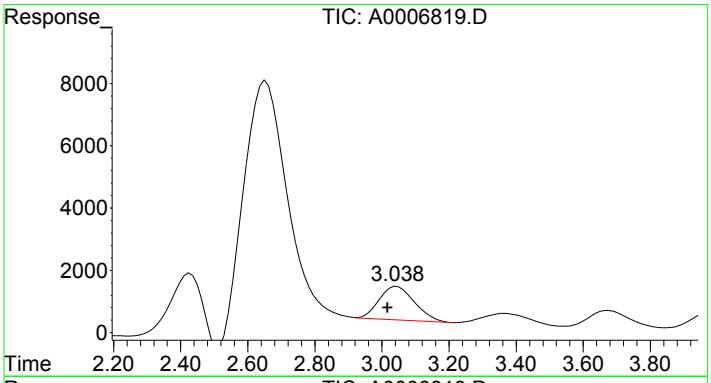
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006819.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 21:37:21
Operator : AFelser
Sample : 0.1/1 STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:24 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

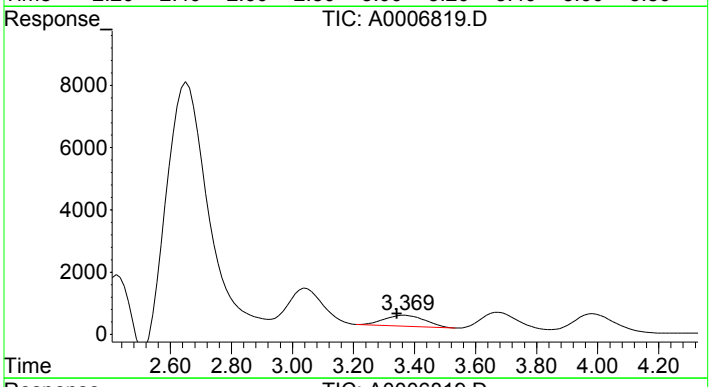
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





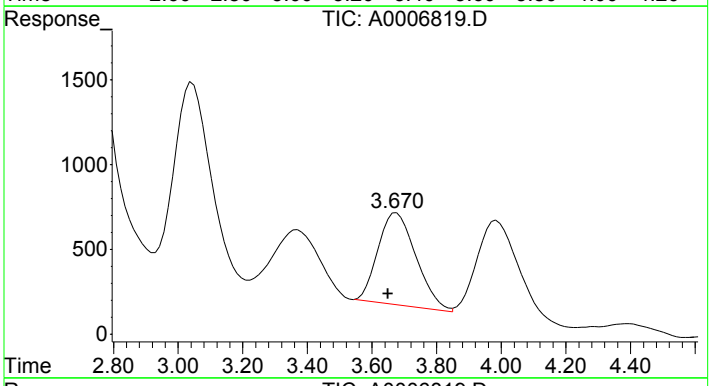
#1 Formic acid

R.T.: 3.038 min
Delta R.T.: 0.021 min
Response: 78821
Conc: 0.83 ppm m



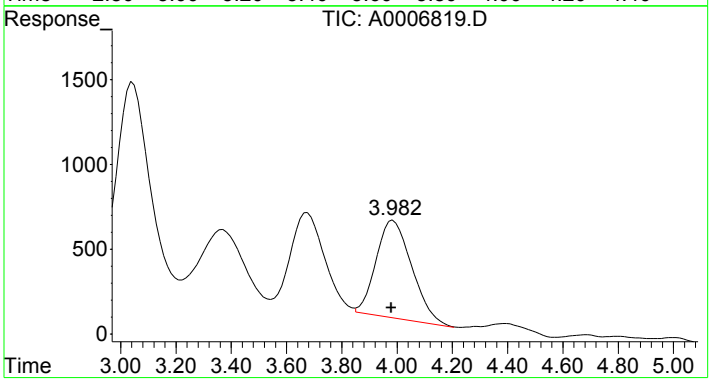
#2 Pyruvic acid

R.T.: 3.369 min
Delta R.T.: 0.026 min
Response: 32932
Conc: 0.07 ppm m



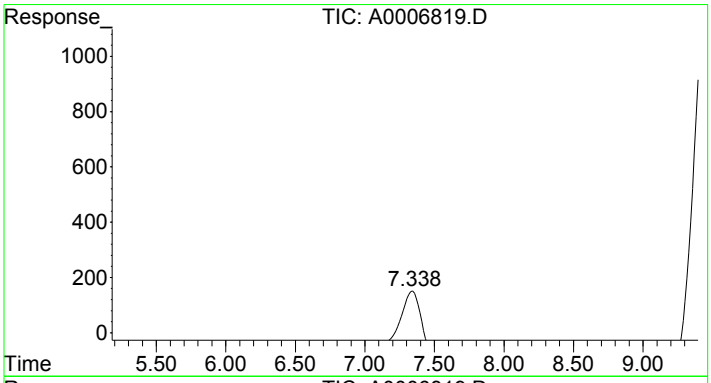
#3 Lactic Acid

R.T.: 3.676 min
Delta R.T.: 0.026 min
Response: 44513
Conc: 0.89 ppm



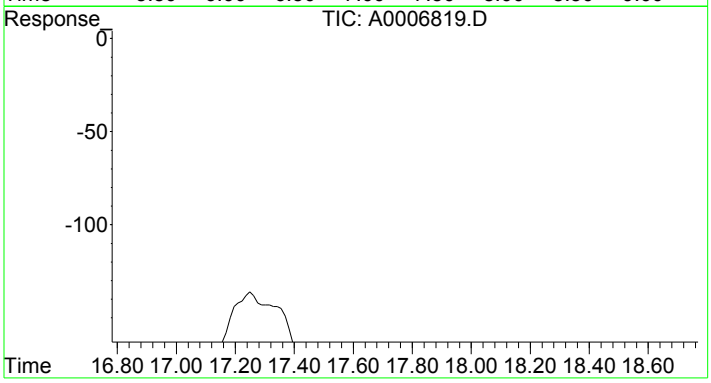
#4 Acetic Acid

R.T.: 3.982 min
Delta R.T.: 0.003 min
Response: 51645
Conc: 0.86 ppm m



#5 Propionic Acid

R.T.: 7.338 min
Delta R.T.: -0.007 min
Response: 75468
Conc: 1.34 ppm m



#6 Butyric Acid

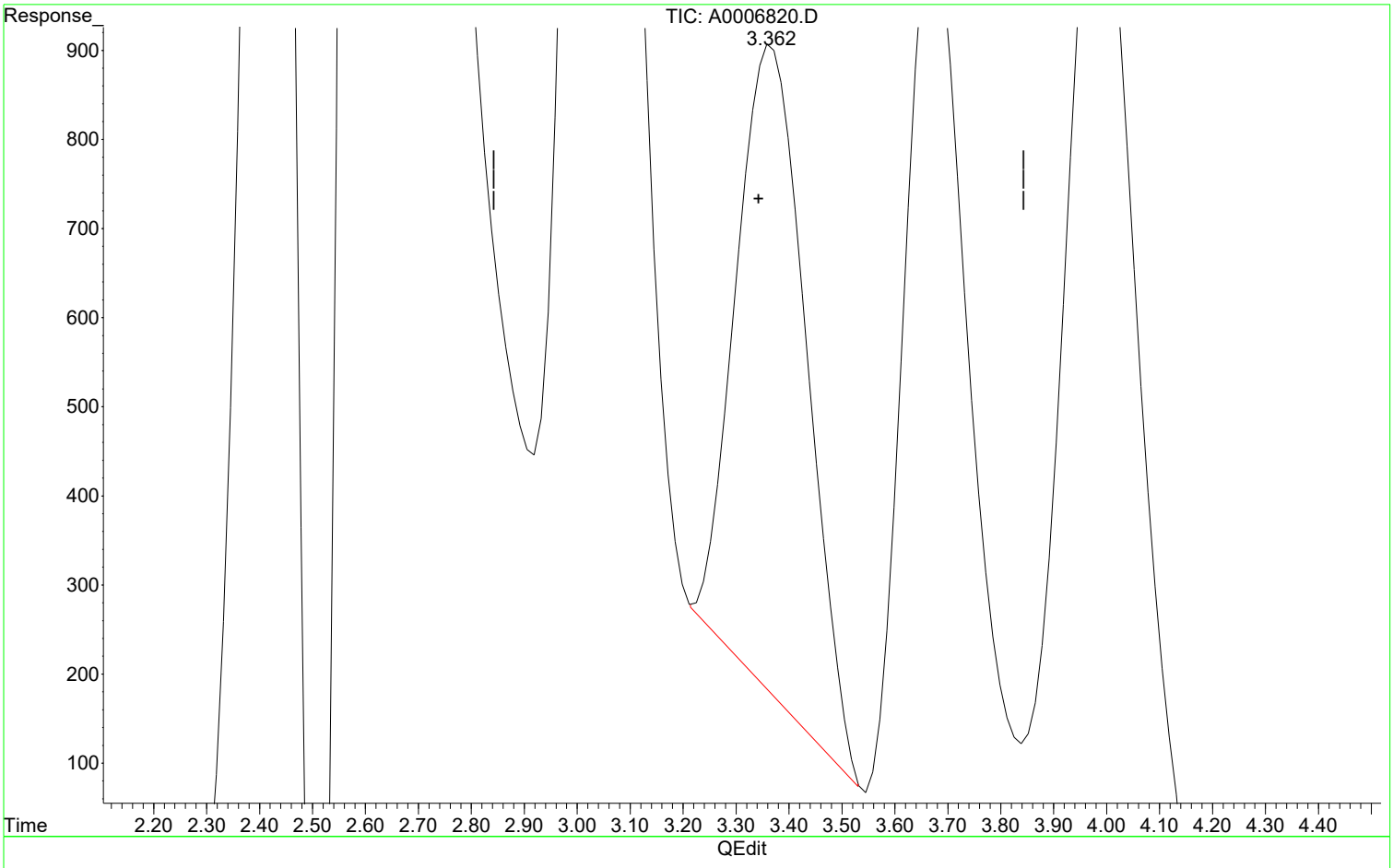
R.T.: 0.000 min
Exp R.T. : 17.773 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006820.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 22:09:43
Operator : AFelser
Sample : 0.2/2 STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:27 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(2) Pyruvic acid (T)

3.362min 0.134 ppm m

response 67428

Manual Integration:

After

Poor integration.

06/07/24

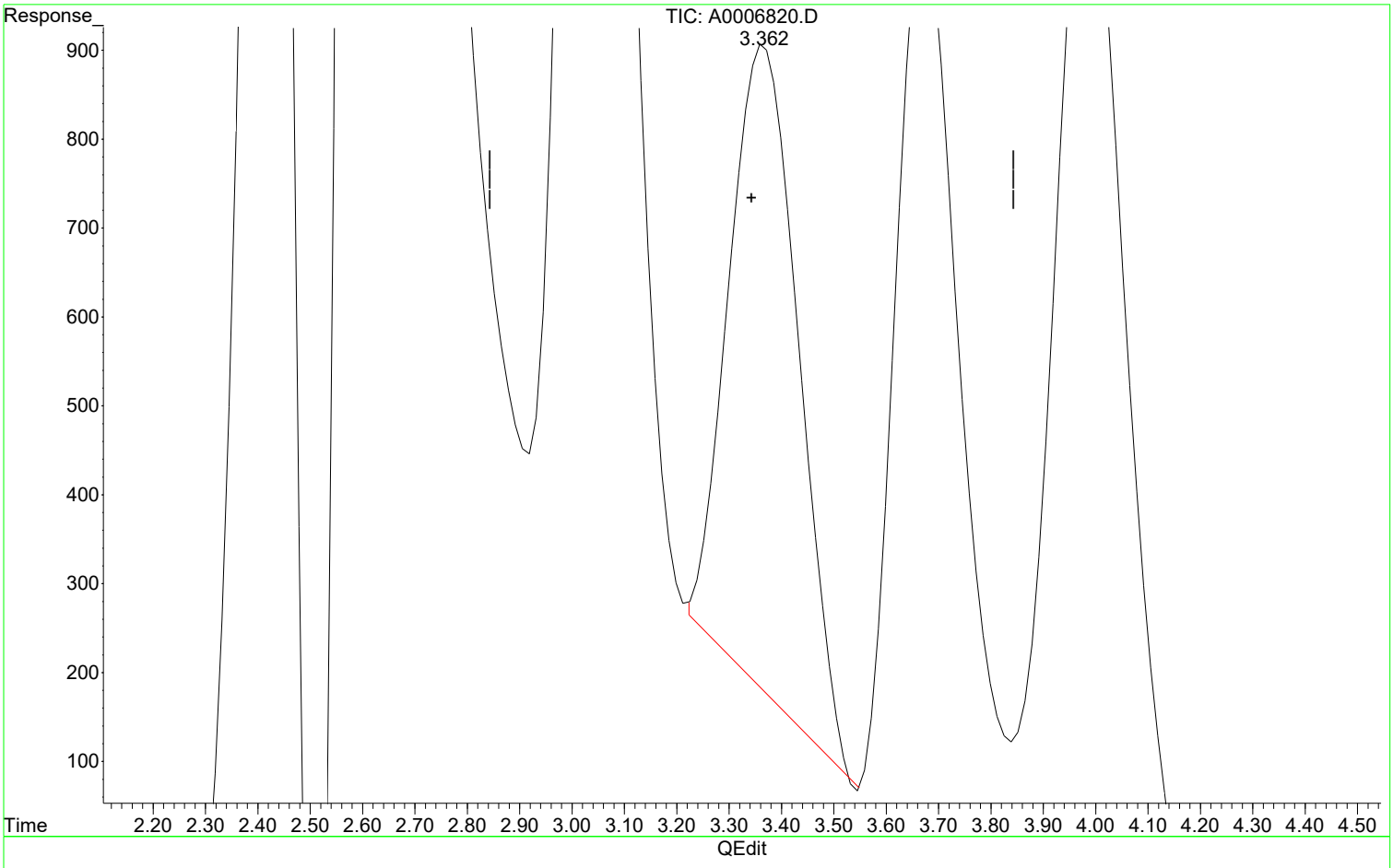
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006820.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 22:09:43
Operator : AFelser
Sample : 0.2/2 STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:27 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(2) Pyruvic acid (T)

3.368min 0.135 ppm

response 67680

Manual Integration:

Before

06/07/24

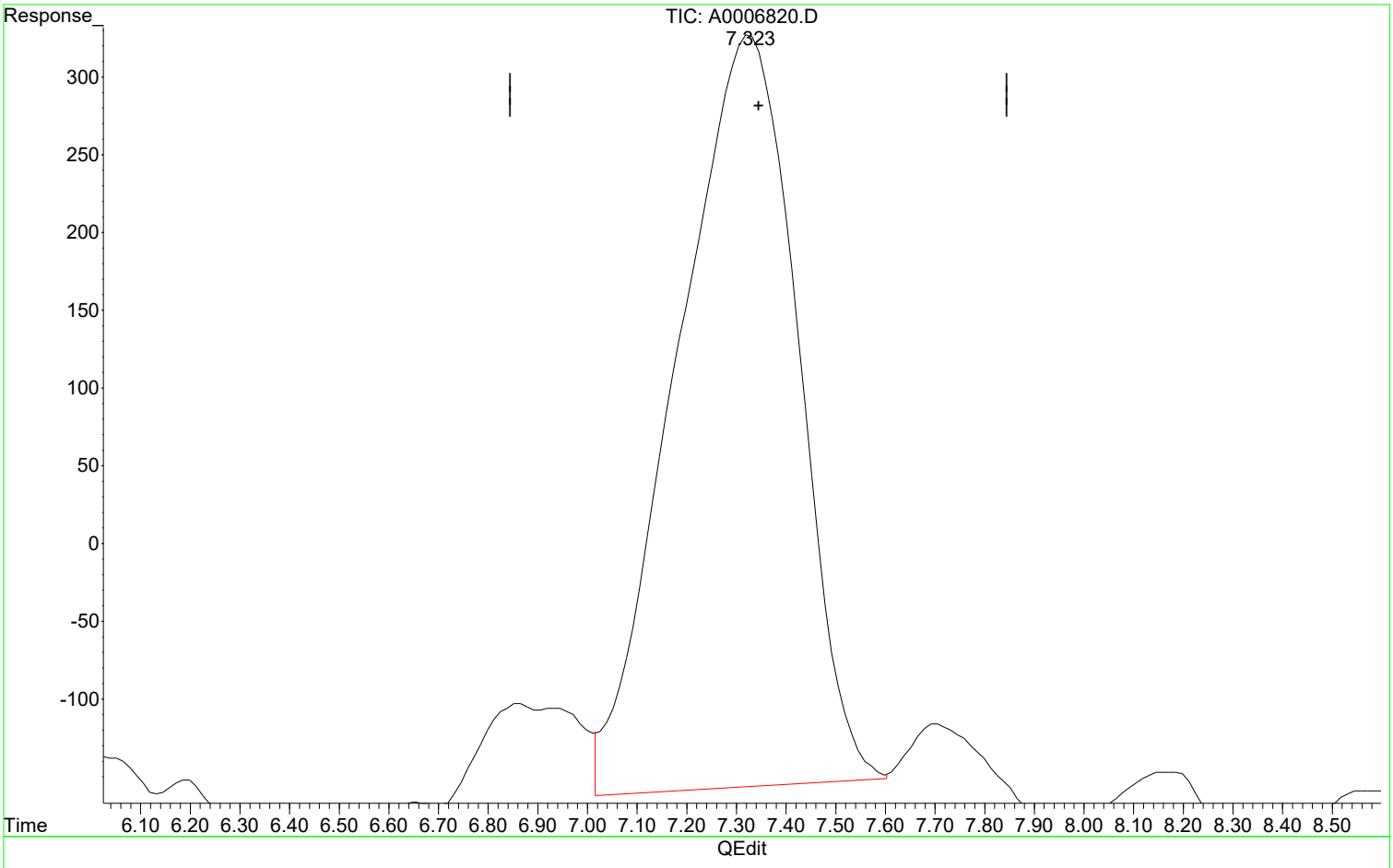
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006820.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 22:09:43
Operator : AFelser
Sample : 0.2/2 STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:27 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.323min 1.448 ppm m

response 81484

Manual Integration:

After

Poor integration.

06/07/24

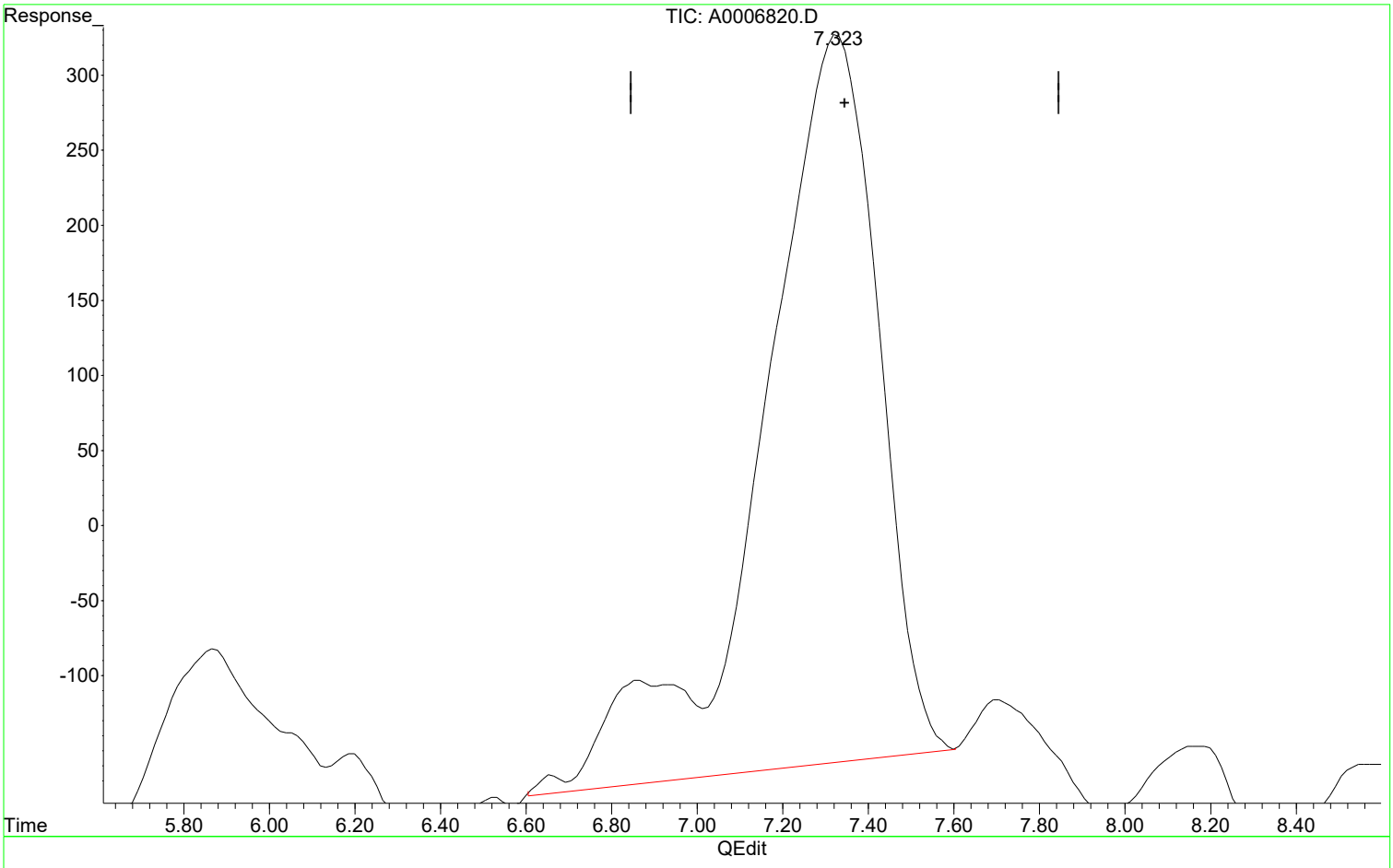
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006820.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 22:09:43
Operator : AFelser
Sample : 0.2/2 STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:27 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.329min 1.629 ppm

response 91672

Manual Integration:

Before

06/07/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006820.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 22:09:43
Operator : AFelser
Sample : 0.2/2 STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:27 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.044	163041	1.721	ppm	
2) T	Pyruvic acid	3.362	67428	0.134	ppm	m
3) T	Lactic Acid	3.677	84688	1.700	ppm	
4) T	Acetic Acid	3.989	113740	1.886	ppm	
5) T	Propionic Acid	7.323	81484	1.448	ppm	m
6) T	Butyric Acid	0.000	0	N.D.	ppm	

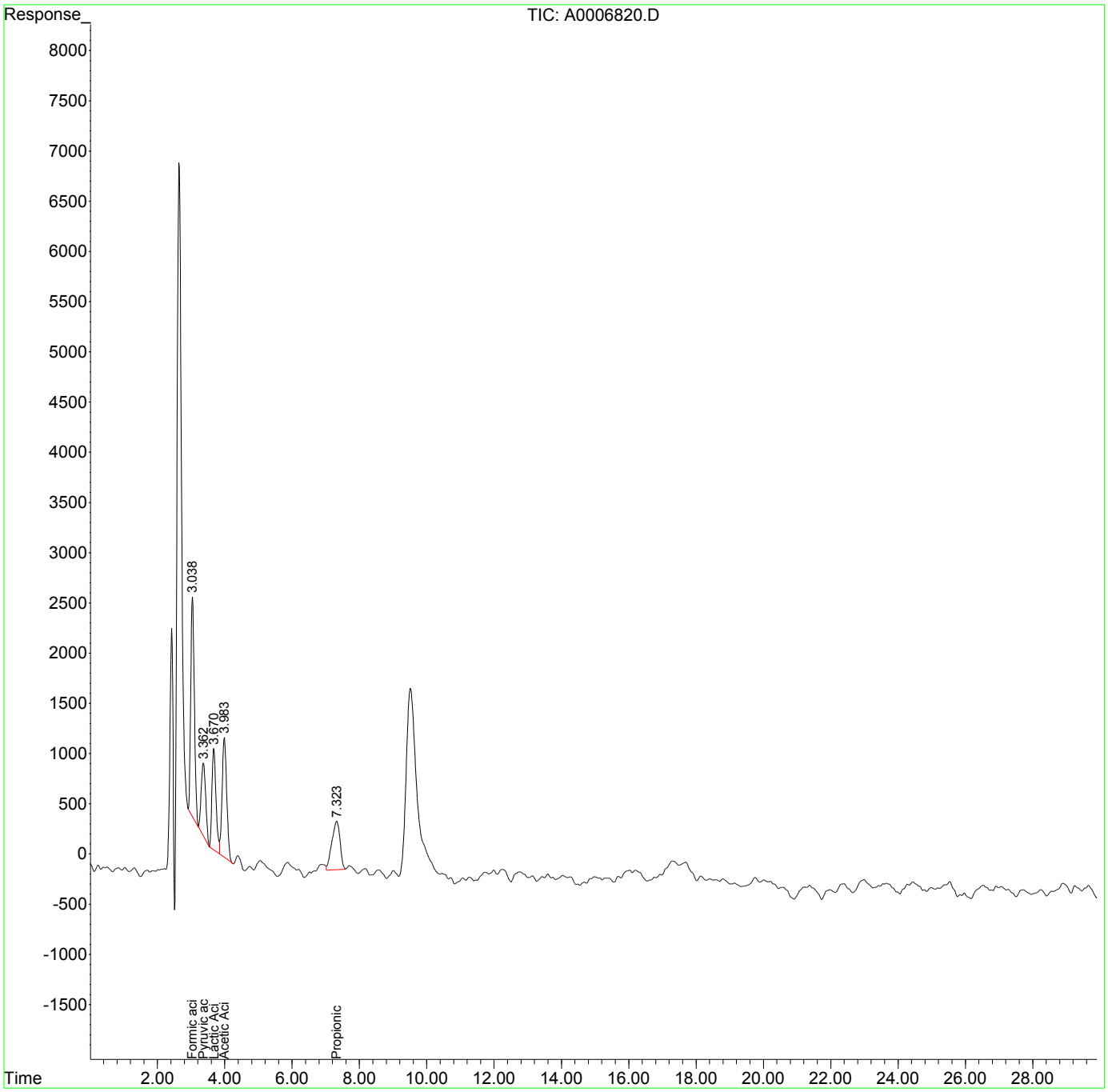
(f)=RT Delta > 1/2 Window (m)=manual int.

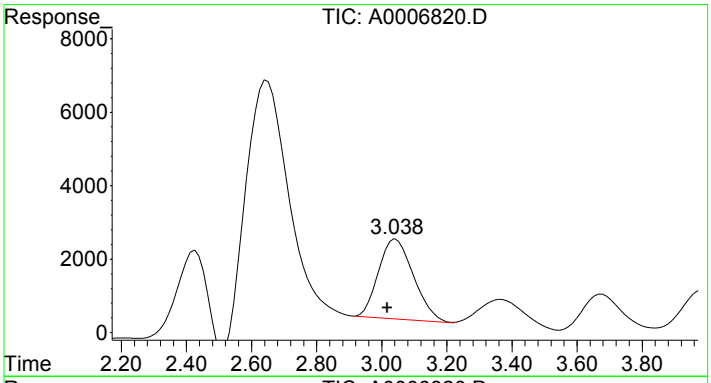
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006820.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 22:09:43
Operator : AFelser
Sample : 0.2/2 STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:27 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

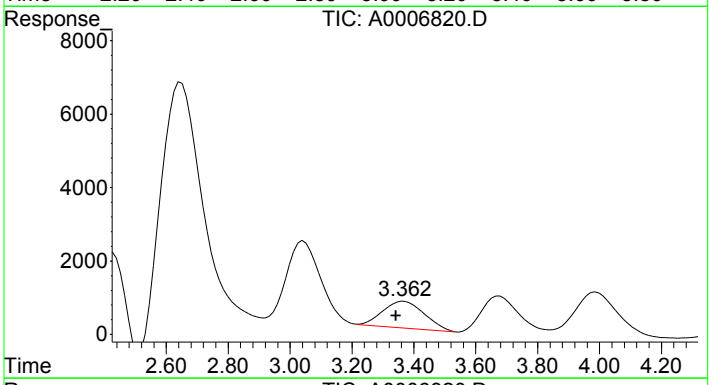
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





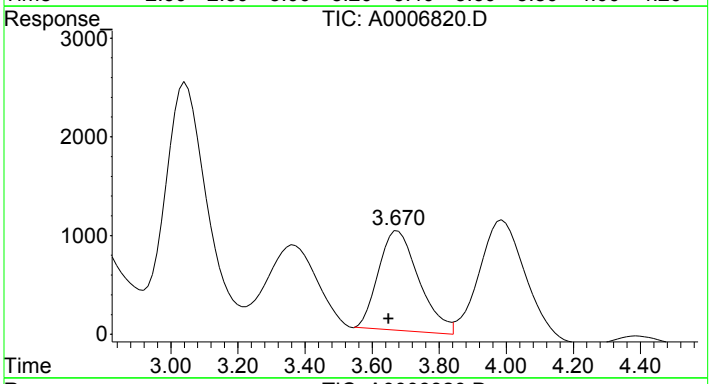
#1 Formic acid

R.T.: 3.044 min
Delta R.T.: 0.027 min
Response: 163041
Conc: 1.72 ppm



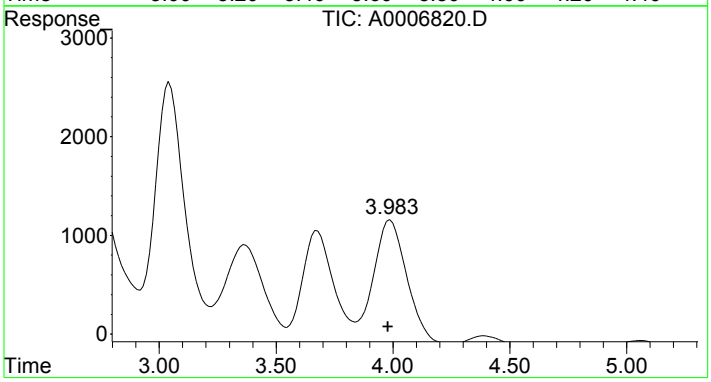
#2 Pyruvic acid

R.T.: 3.362 min
Delta R.T.: 0.019 min
Response: 67428
Conc: 0.13 ppm m



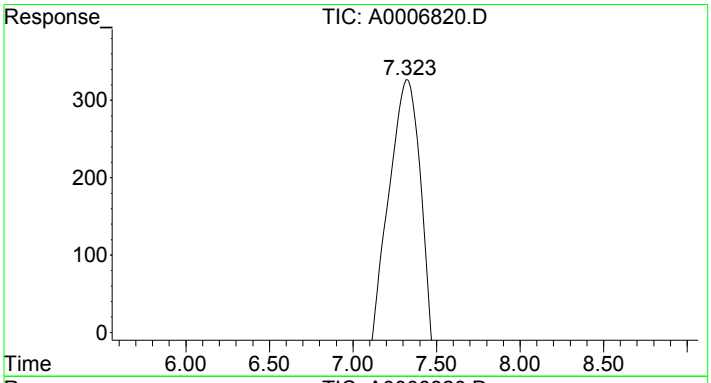
#3 Lactic Acid

R.T.: 3.677 min
Delta R.T.: 0.027 min
Response: 84688
Conc: 1.70 ppm



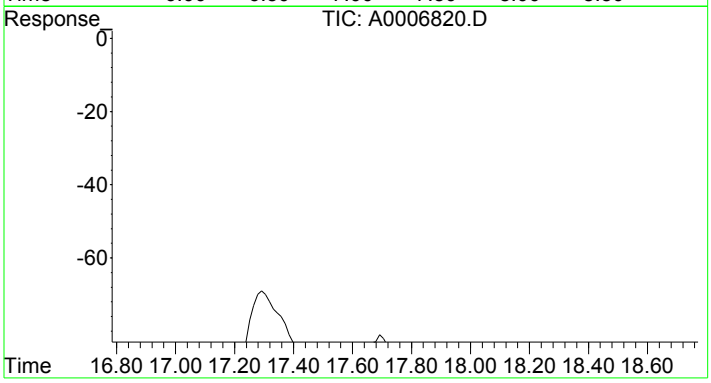
#4 Acetic Acid

R.T.: 3.989 min
Delta R.T.: 0.010 min
Response: 113740
Conc: 1.89 ppm



#5 Propionic Acid

R.T.: 7.323 min
Delta R.T.: -0.022 min
Response: 81484
Conc: 1.45 ppm m



#6 Butyric Acid

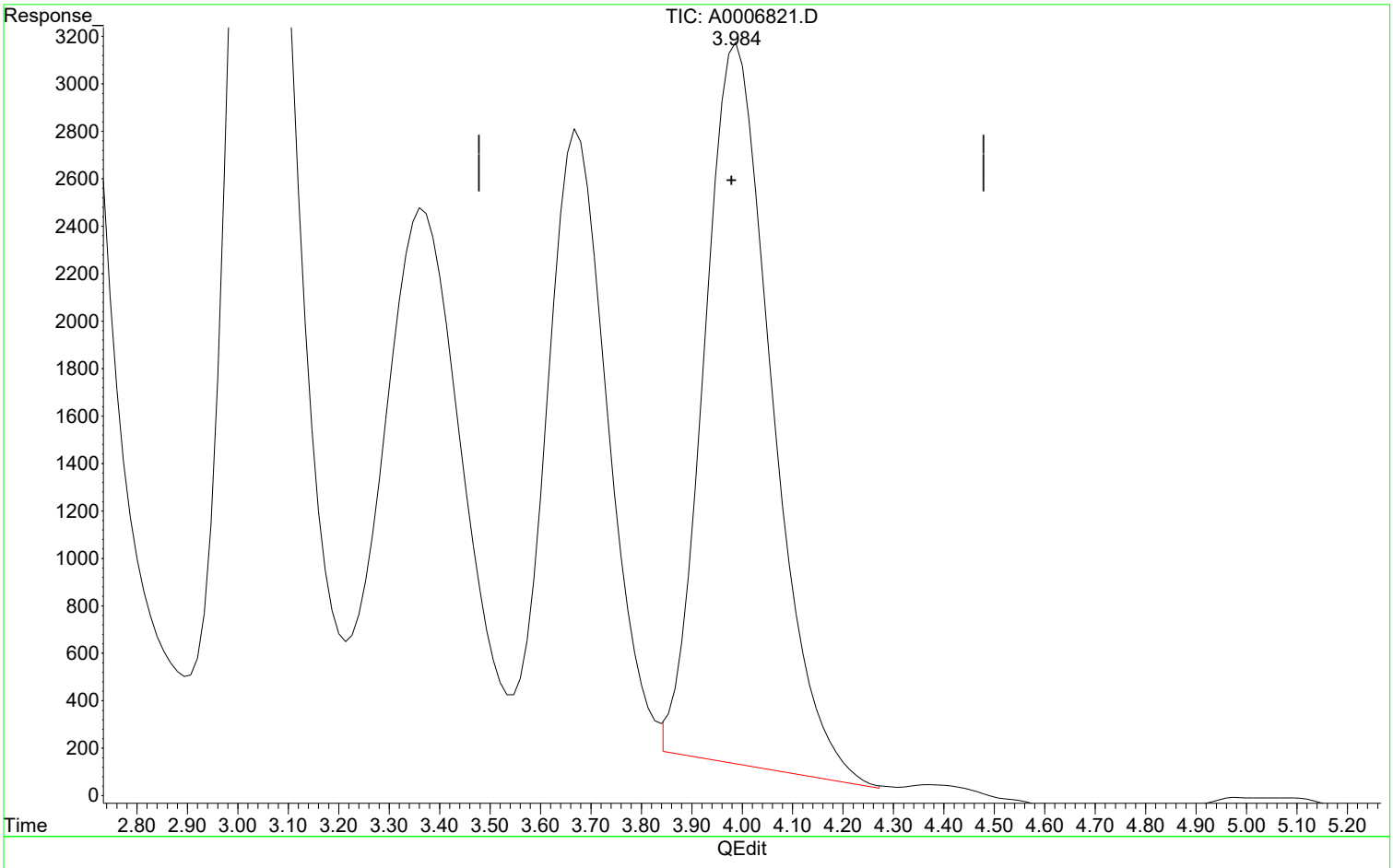
R.T.: 0.000 min
Exp R.T. : 17.773 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006821.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 22:42:03
Operator : AFelser
Sample : 0.5/5 STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:29 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.984min 4.718 ppm m

response 284570

Manual Integration:

After

Poor integration.

06/07/24

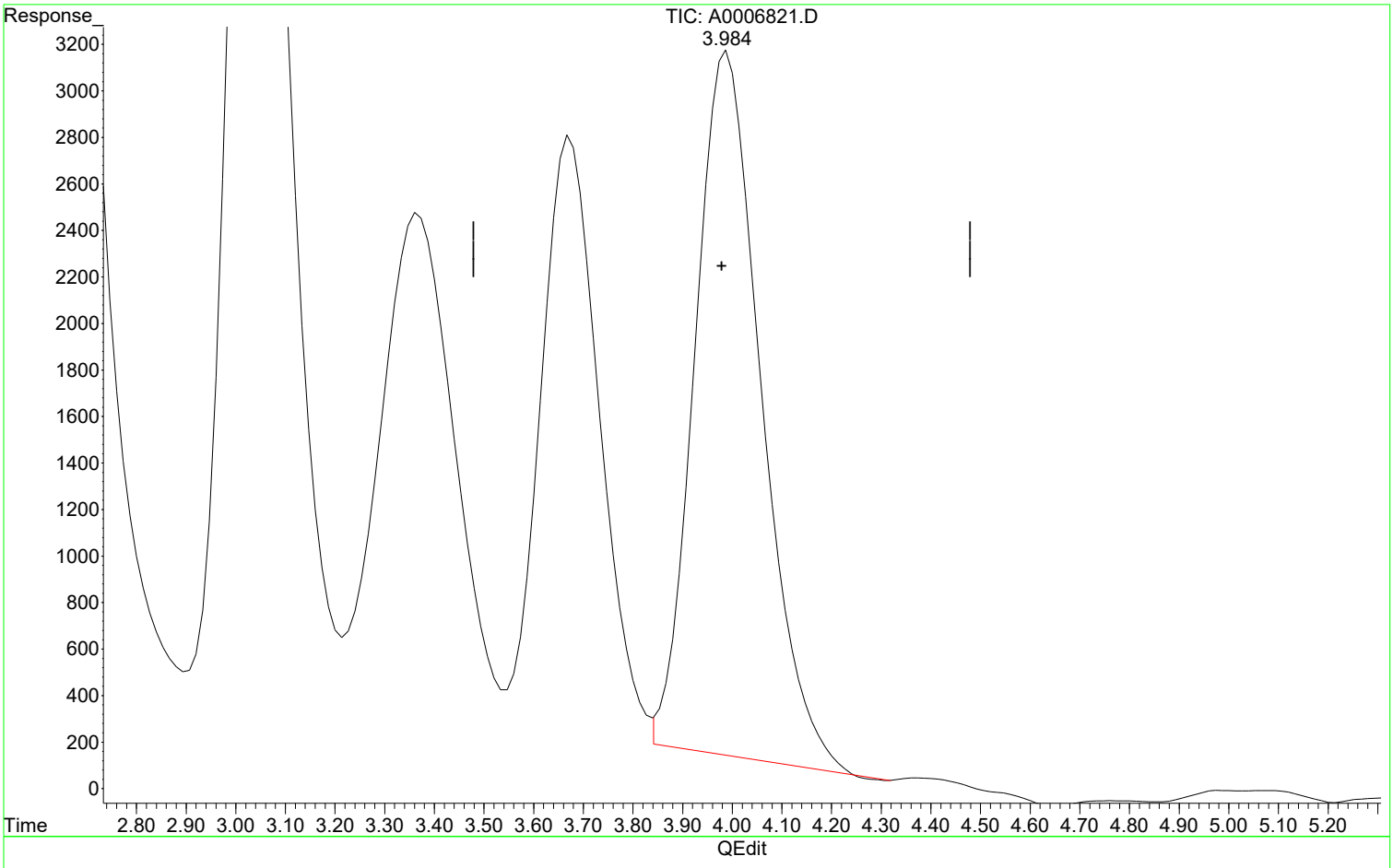
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006821.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 22:42:03
Operator : AFelser
Sample : 0.5/5 STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:29 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.990min 4.682 ppm

response 282406

Manual Integration:

Before

06/07/24

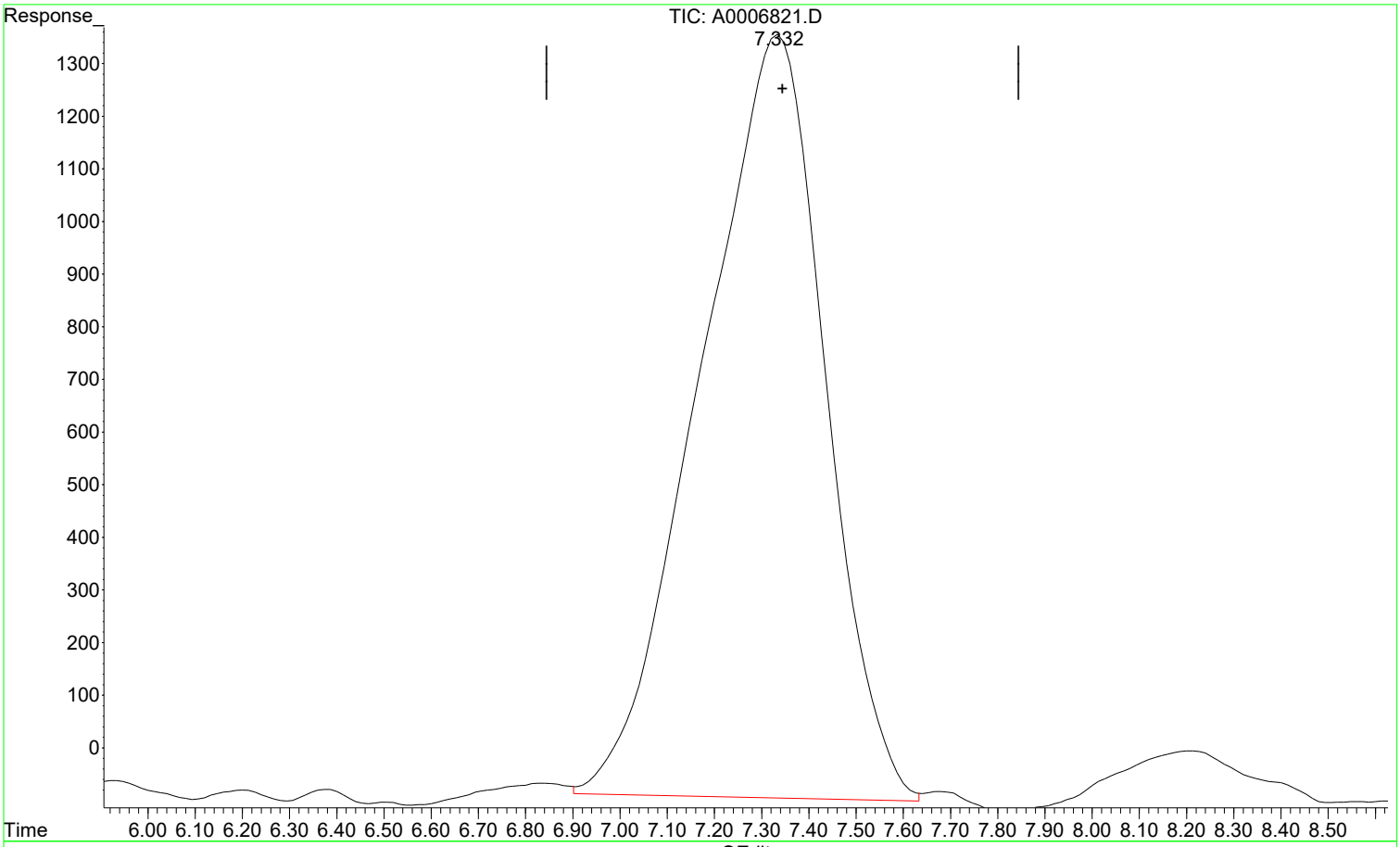
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006821.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 22:42:03
Operator : AFelser
Sample : 0.5/5 STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:29 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.332min 4.698 ppm m

response 264376

Manual Integration:

After

Poor integration.

06/07/24

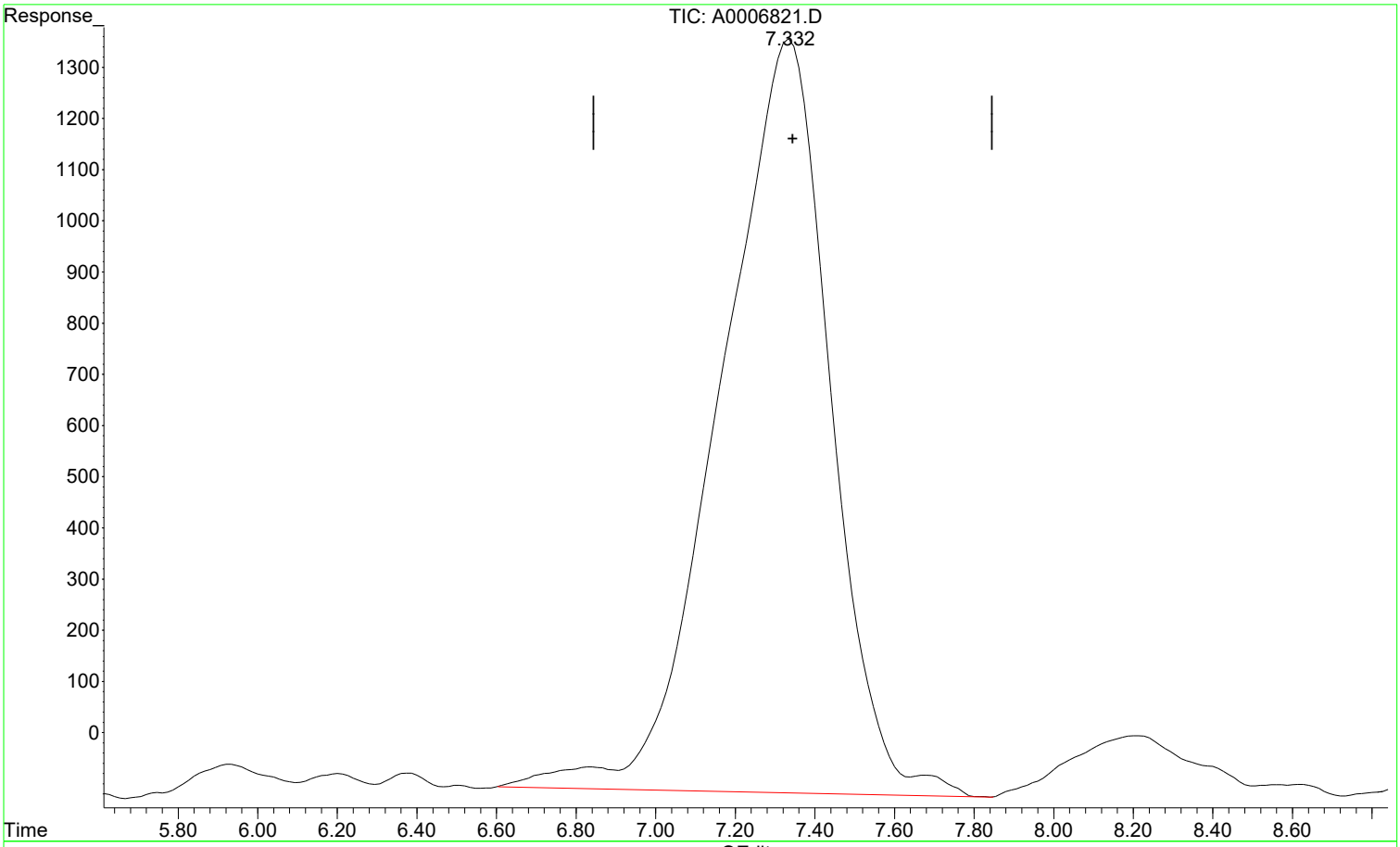
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006821.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 22:42:03
Operator : AFelser
Sample : 0.5/5 STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:29 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.337min 5.010 ppm

response 281929

Manual Integration:

Before

06/07/24

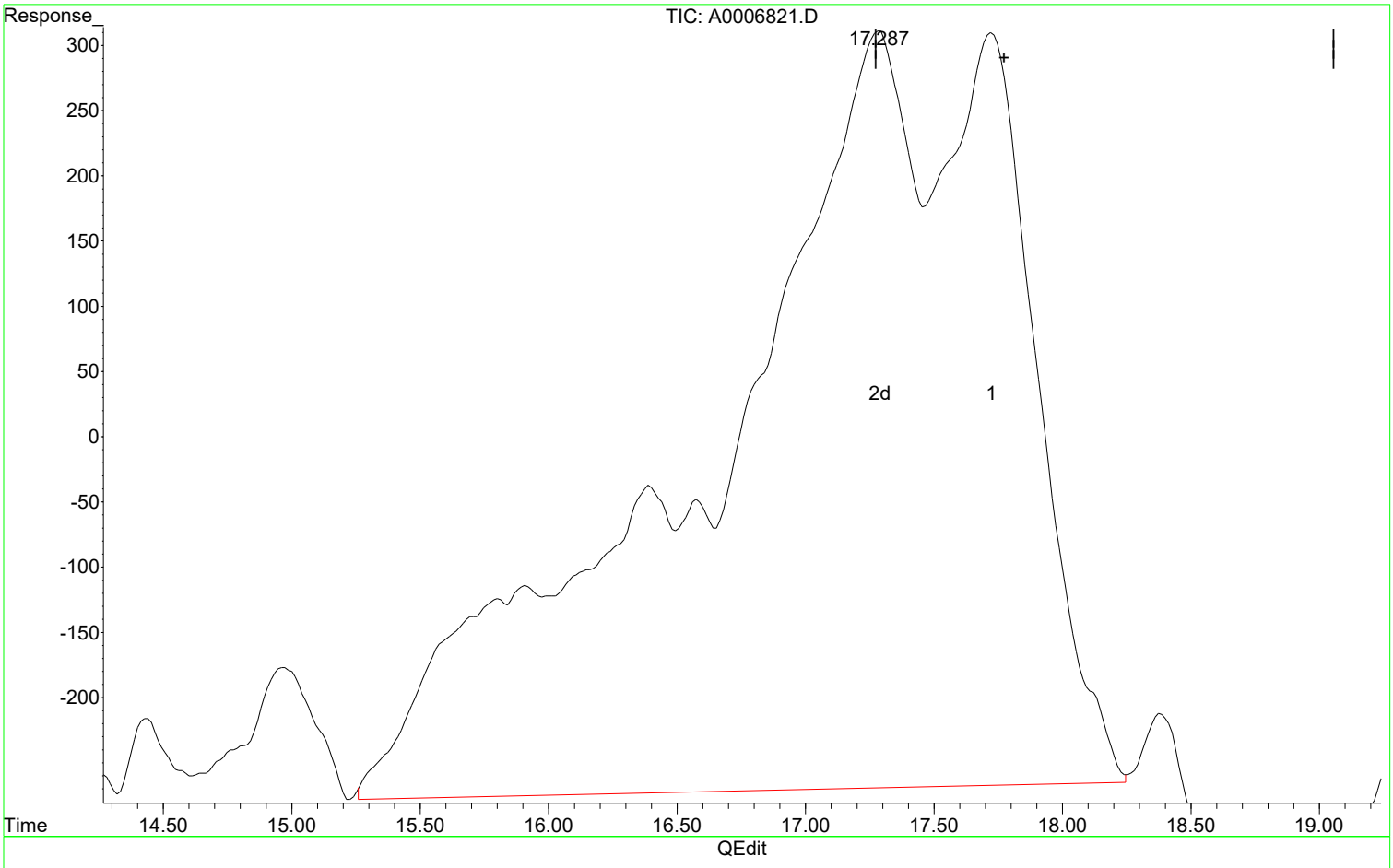
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006821.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 22:42:03
Operator : AFelser
Sample : 0.5/5 STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:29 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.287min 6.247 ppm m

response 483229

Manual Integration:

After

Poor integration.

06/07/24

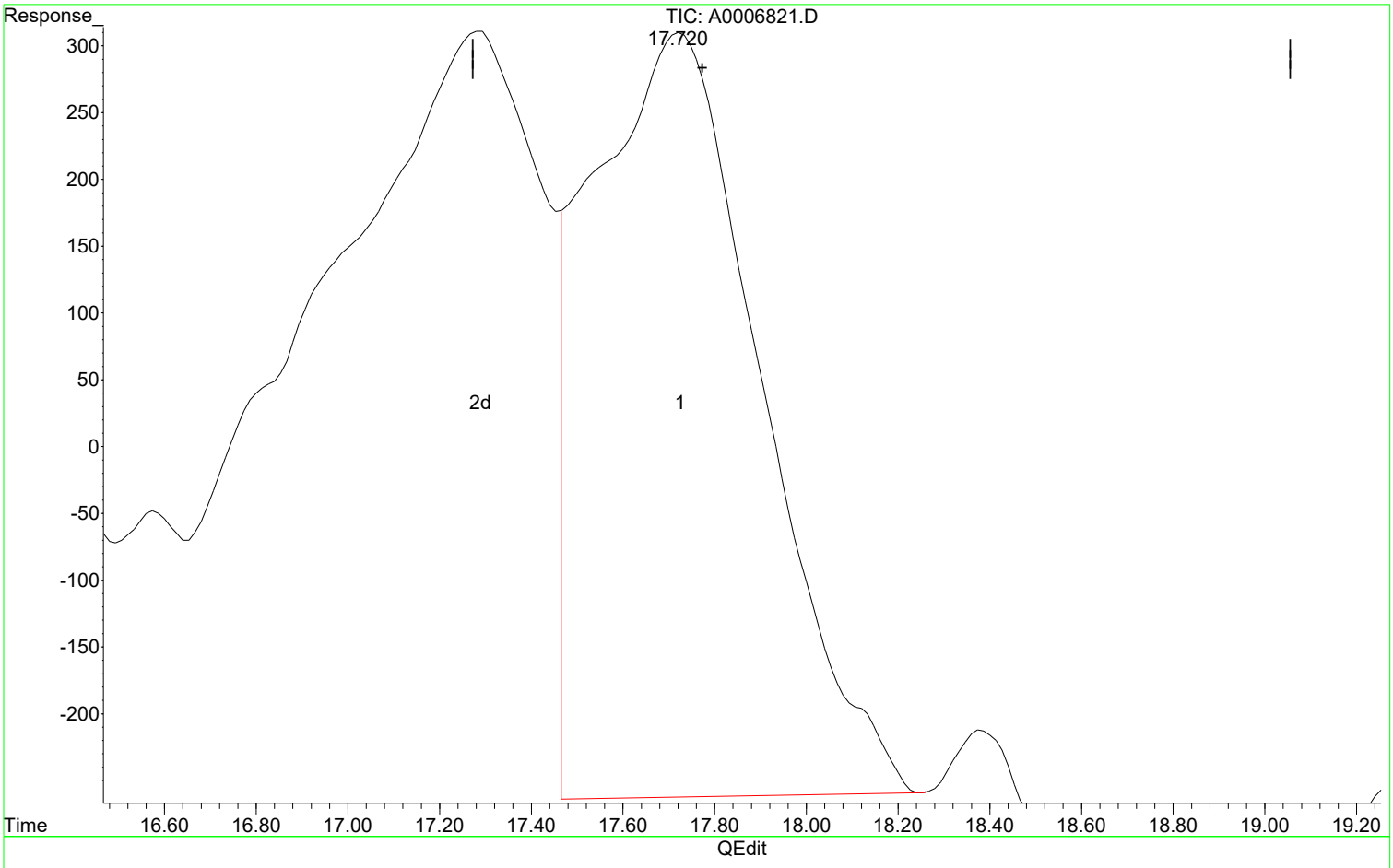
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006821.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 22:42:03
Operator : AFelser
Sample : 0.5/5 STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:29 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.725min 1.951 ppm

response 150949

Manual Integration:

Before

06/07/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006821.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 22:42:03
Operator : AFelser
Sample : 0.5/5 STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:29 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.045	447917	4.728	ppm	
2) T	Pyruvic acid	3.368	215435	0.429	ppm	
3) T	Lactic Acid	3.675	208829	4.191	ppm	
4) T	Acetic Acid	3.984	284570	4.718	ppm	m
5) T	Propionic Acid	7.332	264376	4.698	ppm	m
6) T	Butyric Acid	17.287f	483229	6.247	ppm	m

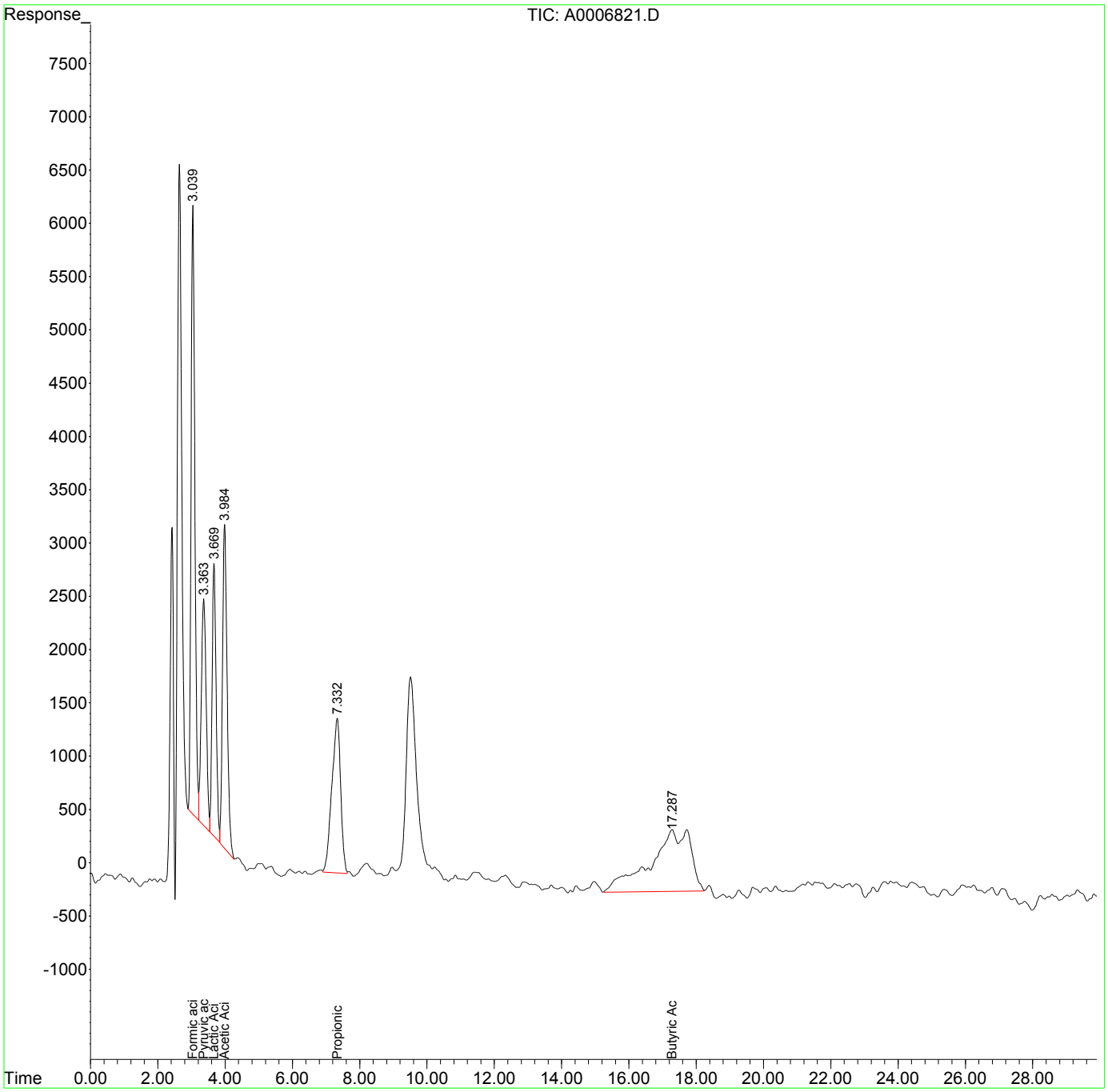
(f)=RT Delta > 1/2 Window (m)=manual int.

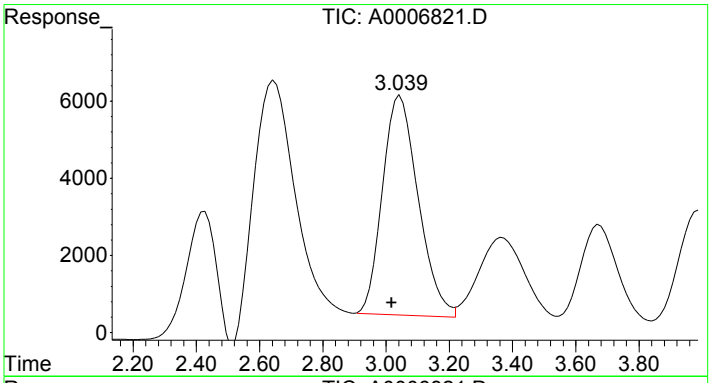
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006821.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 22:42:03
Operator : AFelser
Sample : 0.5/5 STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:29 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

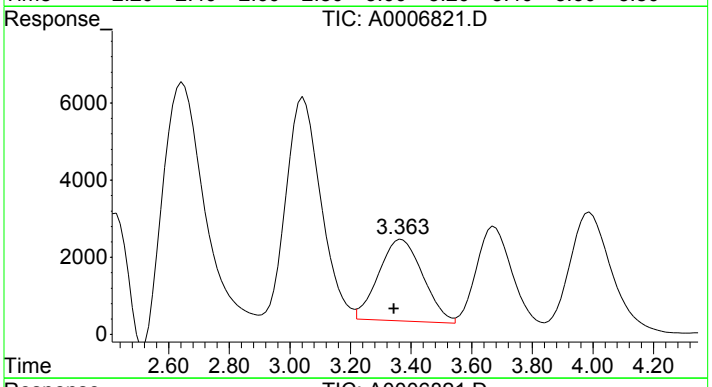
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





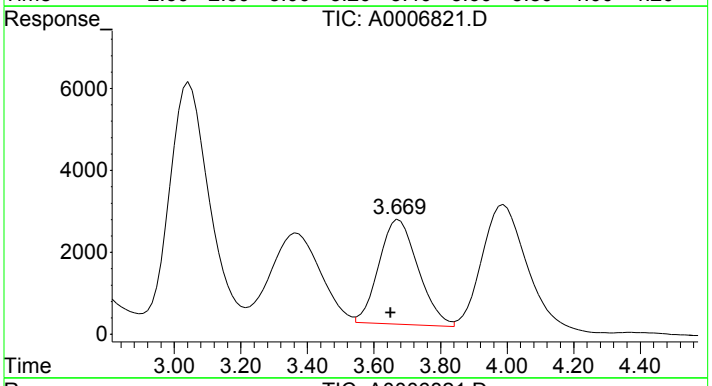
#1 Formic acid

R.T.: 3.045 min
Delta R.T.: 0.028 min
Response: 447917
Conc: 4.73 ppm



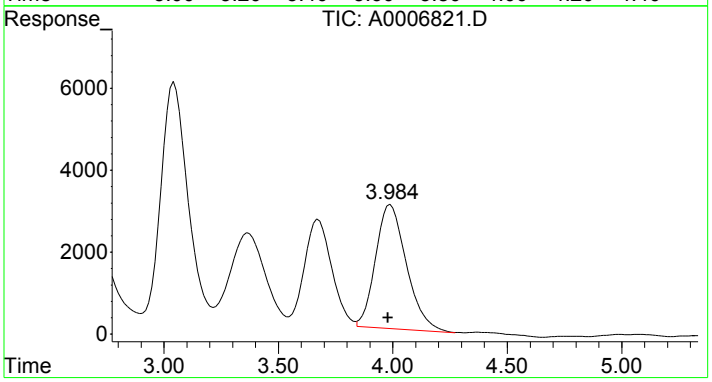
#2 Pyruvic acid

R.T.: 3.368 min
Delta R.T.: 0.025 min
Response: 215435
Conc: 0.43 ppm



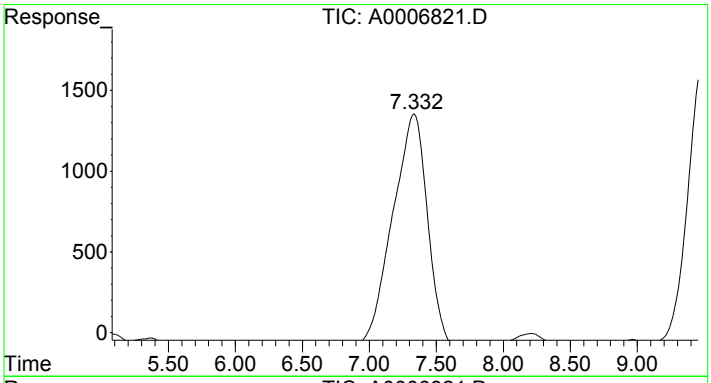
#3 Lactic Acid

R.T.: 3.675 min
Delta R.T.: 0.025 min
Response: 208829
Conc: 4.19 ppm



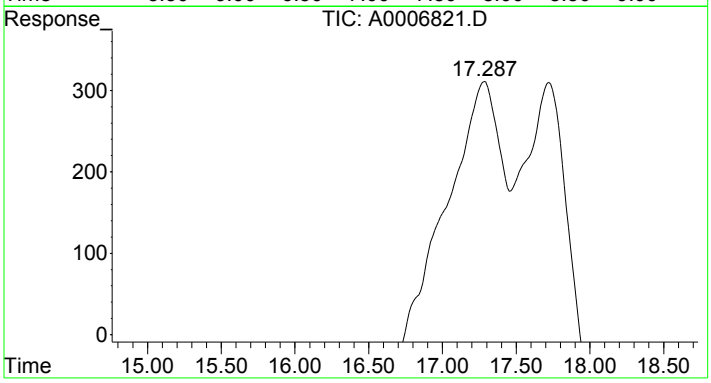
#4 Acetic Acid

R.T.: 3.984 min
Delta R.T.: 0.005 min
Response: 284570
Conc: 4.72 ppm m



#5 Propionic Acid

R.T.: 7.332 min
Delta R.T.: -0.013 min
Response: 264376
Conc: 4.70 ppm m



#6 Butyric Acid

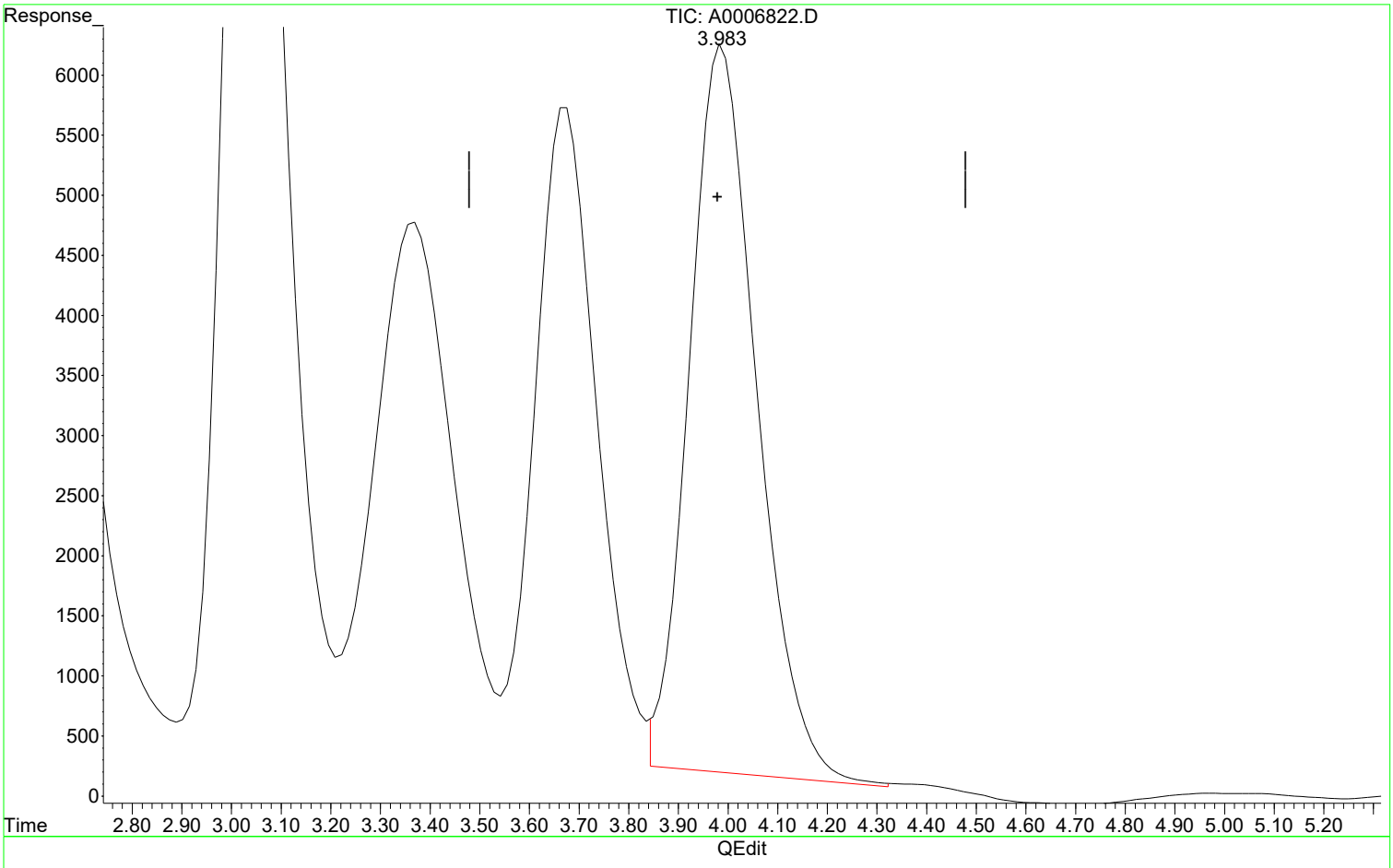
R.T.: 17.287 min
Delta R.T.: -0.487 min
Response: 483229
Conc: 6.25 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006822.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 23:14:24
Operator : AFelser
Sample : 1/10 STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:31 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.983min 9.503 ppm m

response 573181

Manual Integration:

After

Poor integration.

06/07/24

(+) = Expected Retention Time

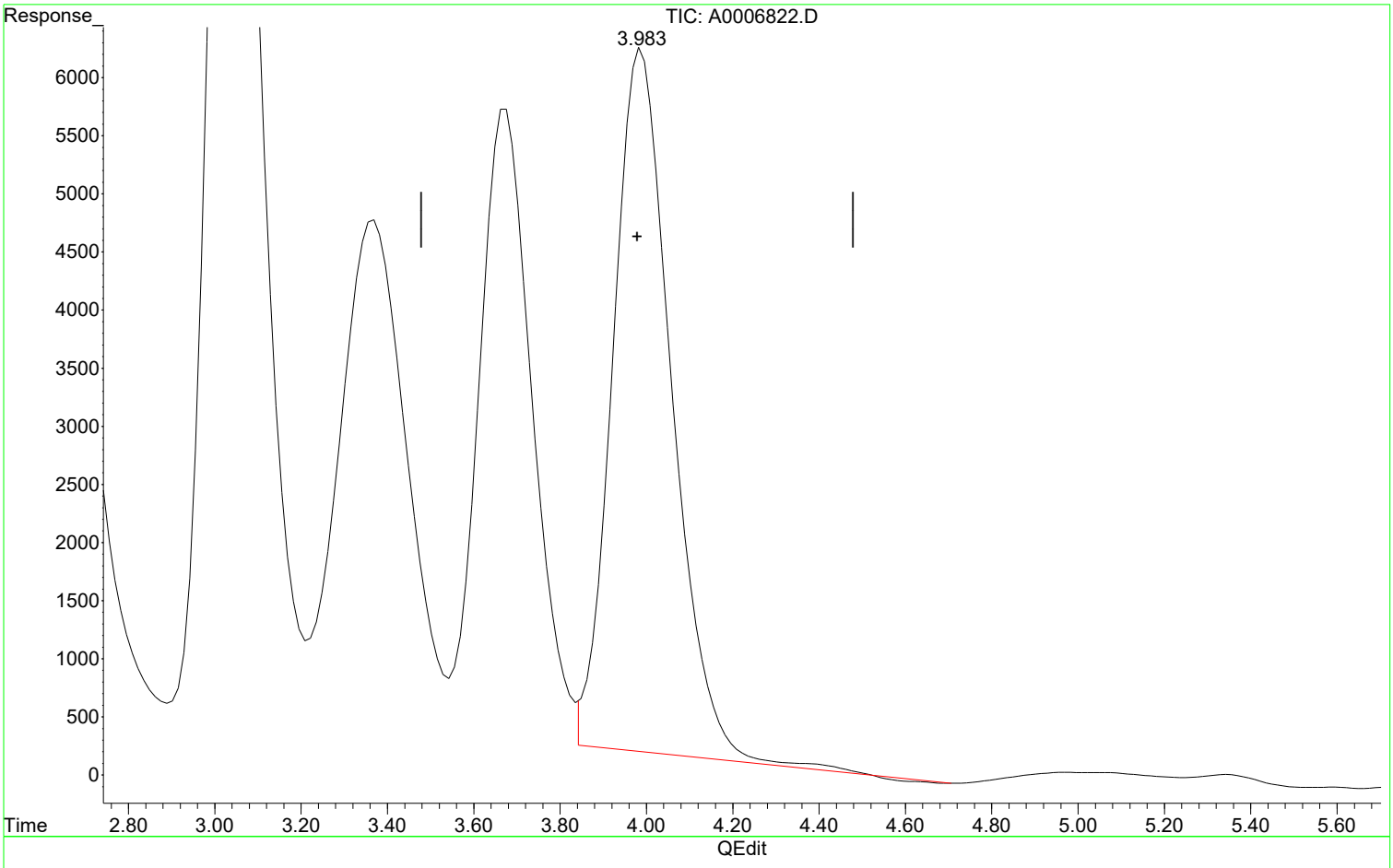
1st 06/10/24
2nd 06/10/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006822.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 23:14:24
Operator : AFelser
Sample : 1/10 STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:31 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.989min 9.576 ppm

response 577574

Manual Integration:

Before

06/07/24

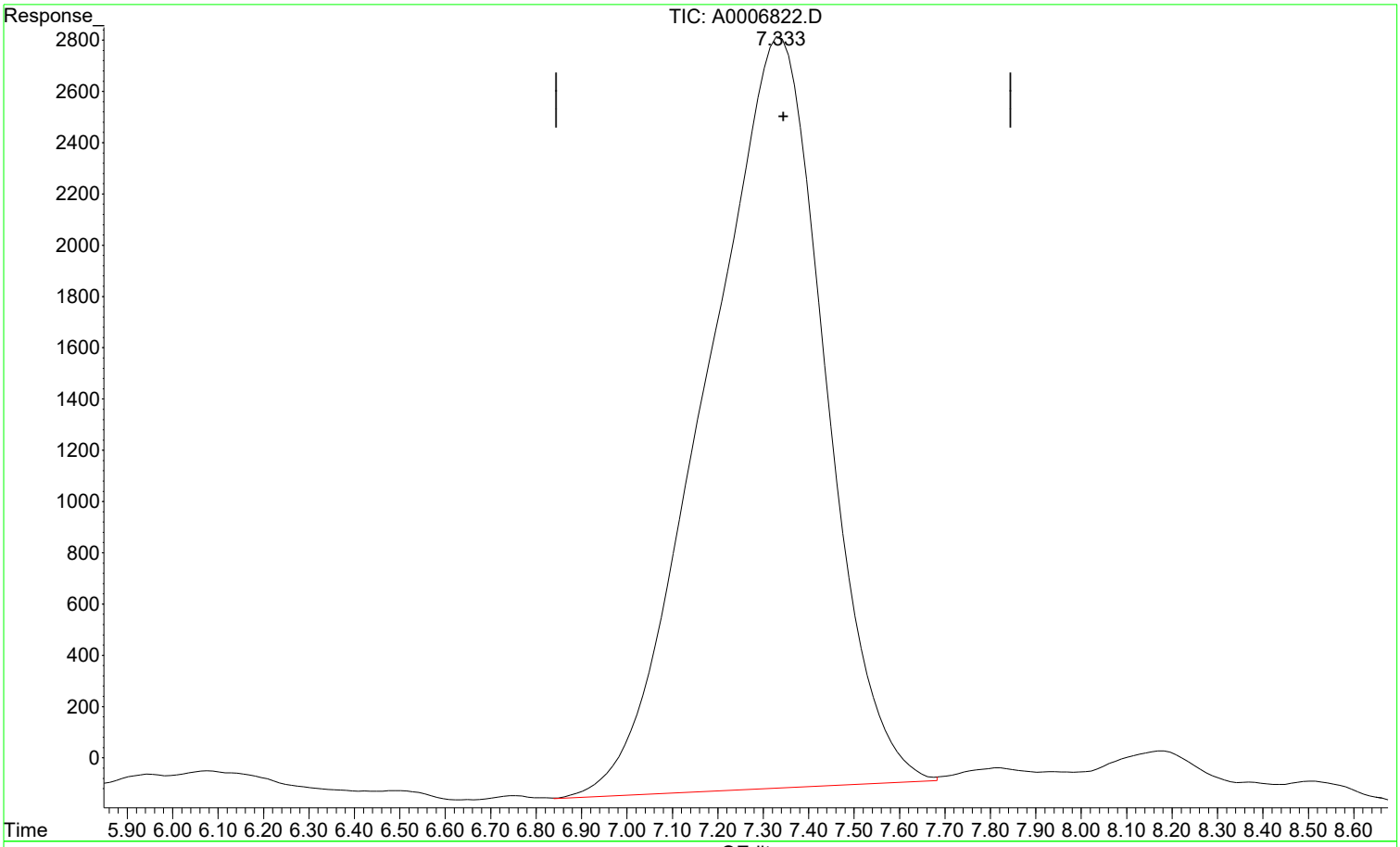
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006822.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 23:14:24
Operator : AFelser
Sample : 1/10 STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:31 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.333min 9.441 ppm m

response 531264

Manual Integration:

After

Poor integration.

06/07/24

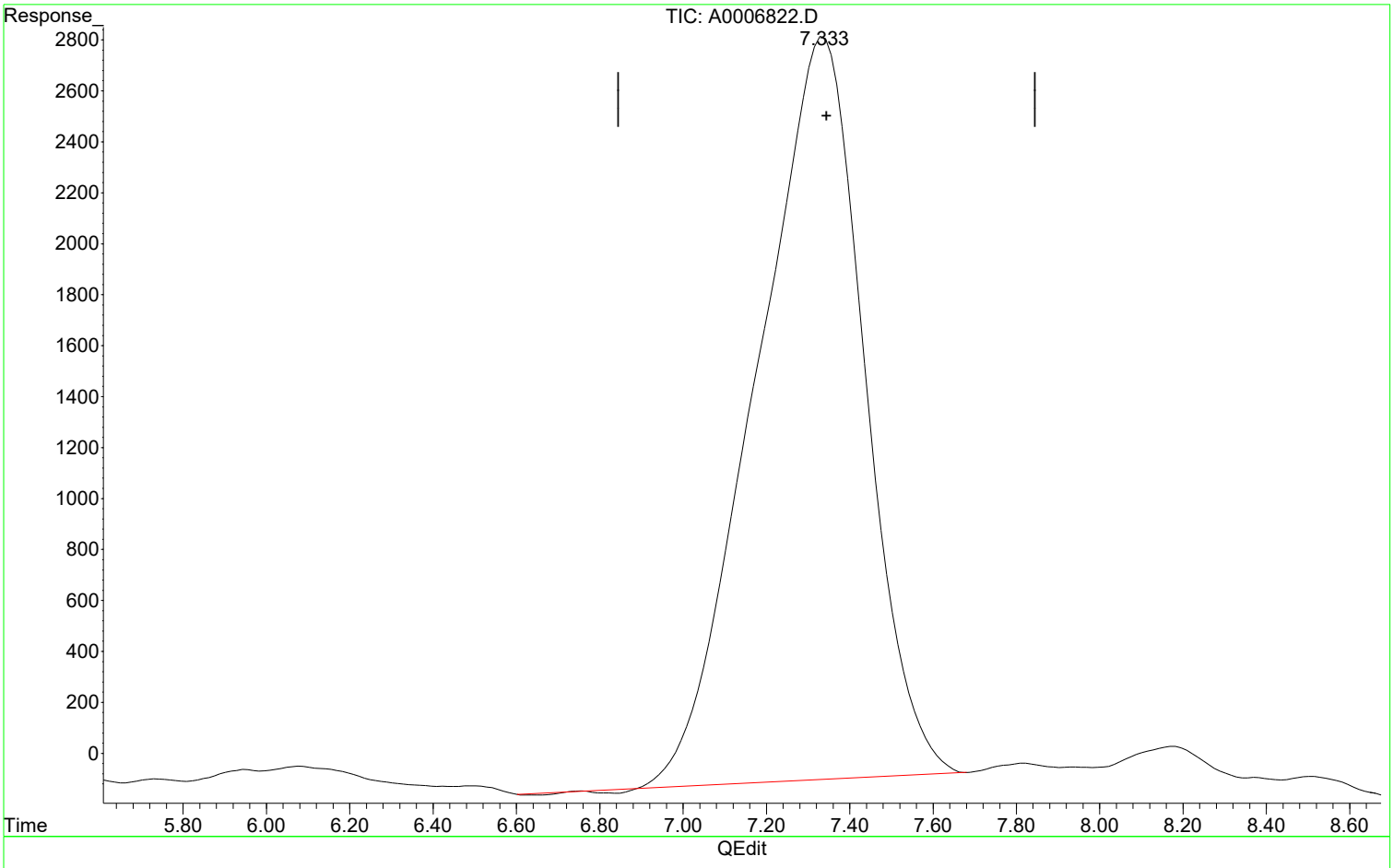
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006822.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 23:14:24
Operator : AFelser
Sample : 1/10 STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:31 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.338min 9.286 ppm

response 522537

Manual Integration:

Before

06/07/24

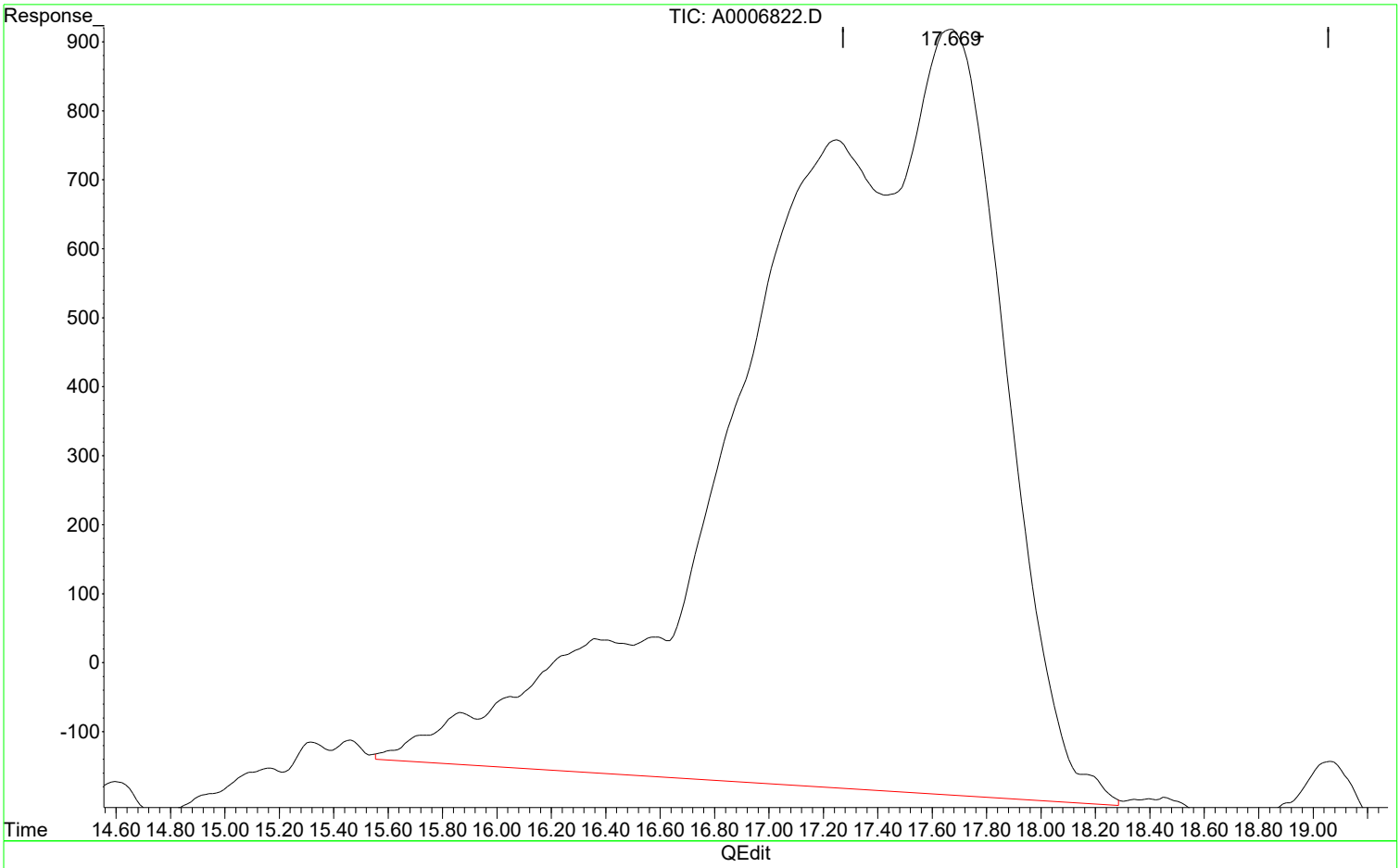
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006822.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 23:14:24
Operator : AFelser
Sample : 1/10 STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:31 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.669min 9.046 ppm m

response 699800

Manual Integration:

After

Poor integration.

06/07/24

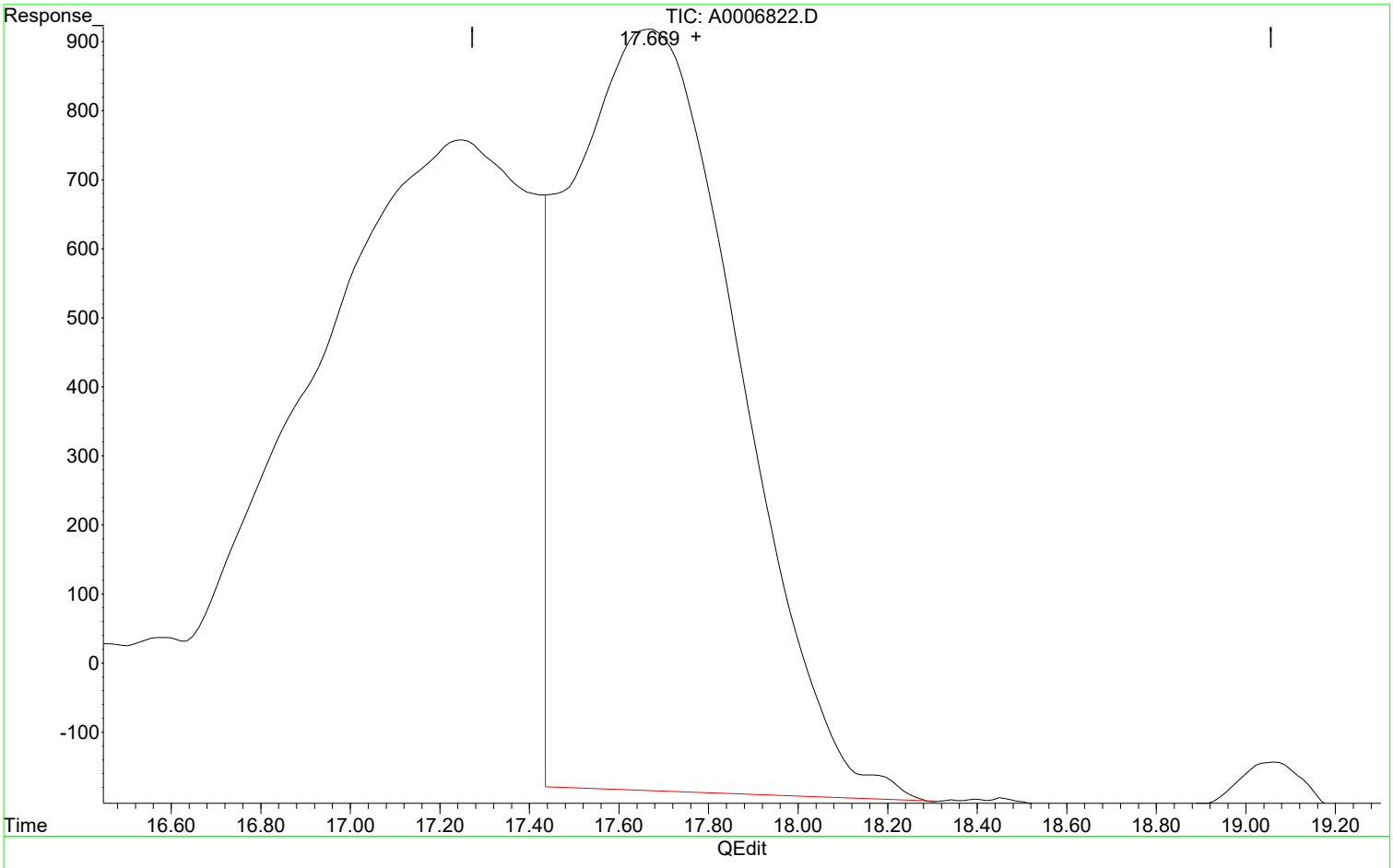
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006822.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 23:14:24
Operator : AFelser
Sample : 1/10 STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:31 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.671min 3.807 ppm

response 294544

Manual Integration:

Before

06/07/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006822.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 23:14:24
Operator : AFelser
Sample : 1/10 STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:31 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

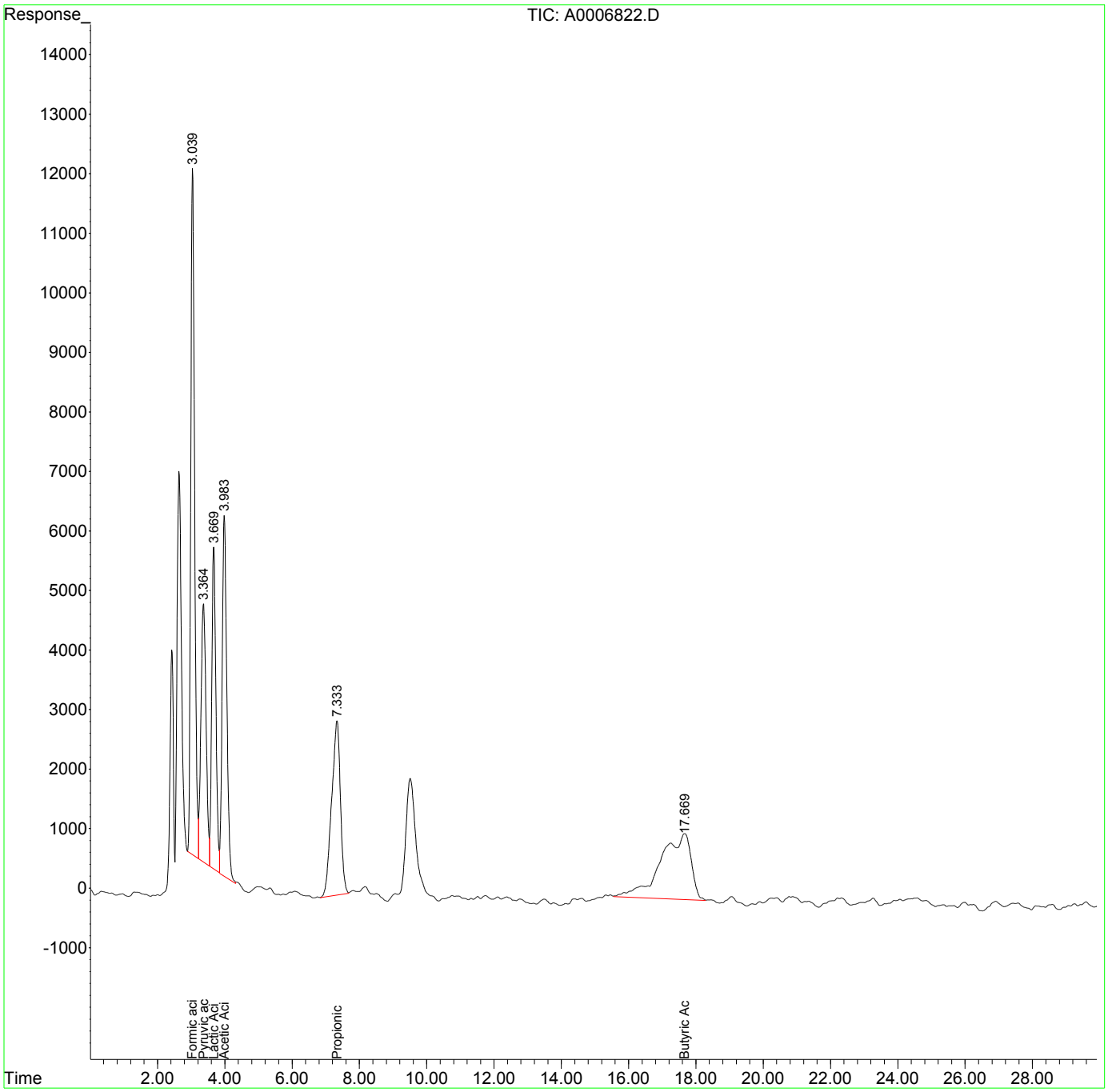
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.044	917495	9.685	ppm	
2) T	Pyruvic acid	3.369	461524	0.918	ppm	
3) T	Lactic Acid	3.674	463911	9.310	ppm	
4) T	Acetic Acid	3.983	573181	9.503	ppm	m
5) T	Propionic Acid	7.333	531264	9.441	ppm	m
6) T	Butyric Acid	17.669	699800	9.046	ppm	m

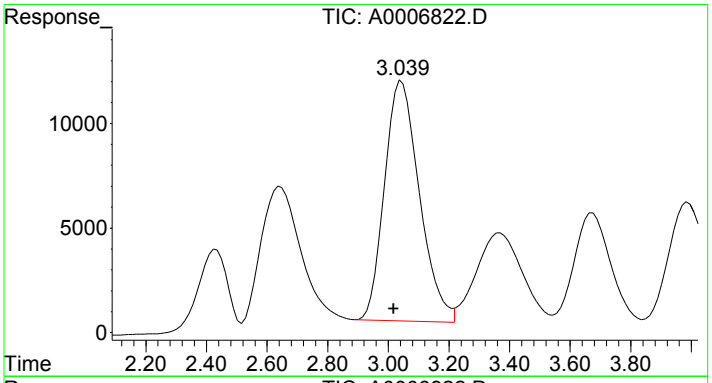
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006822.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 23:14:24
Operator : AFelser
Sample : 1/10 STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:31 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

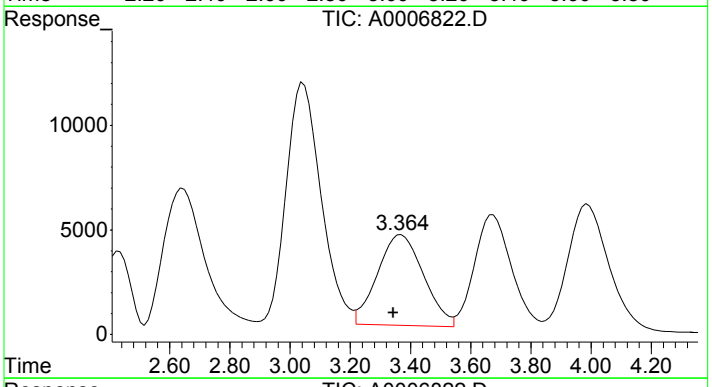
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





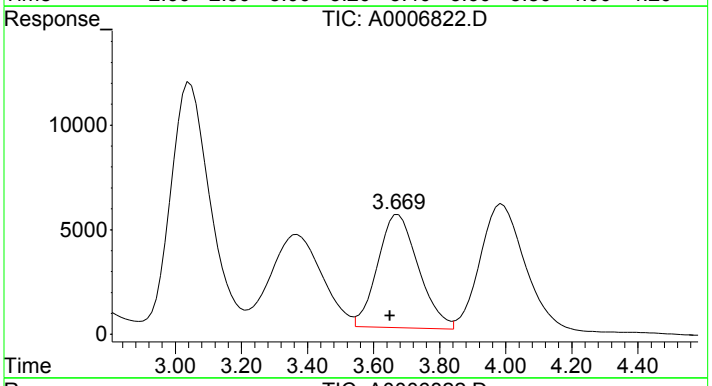
#1 Formic acid

R.T.: 3.044 min
Delta R.T.: 0.027 min
Response: 917495
Conc: 9.69 ppm



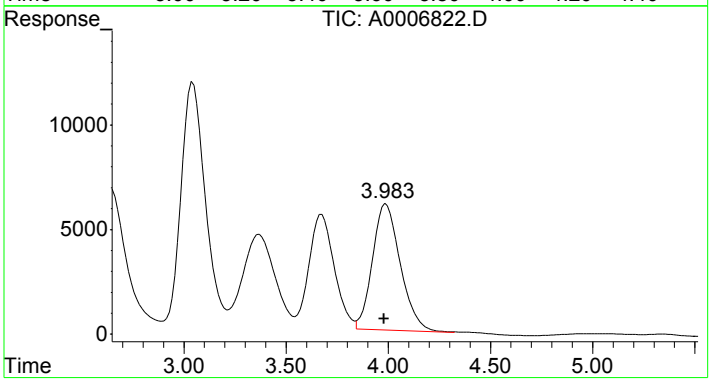
#2 Pyruvic acid

R.T.: 3.369 min
Delta R.T.: 0.026 min
Response: 461524
Conc: 0.92 ppm



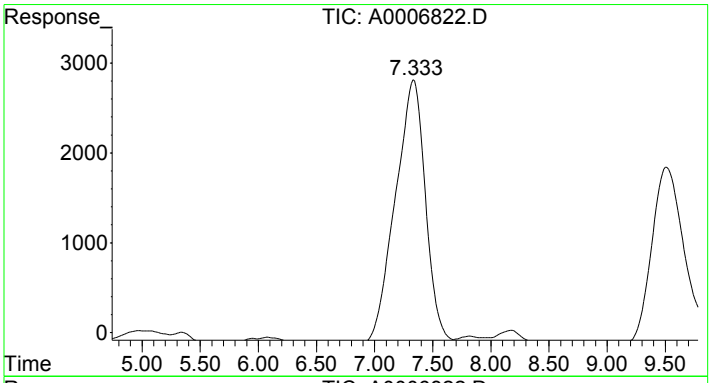
#3 Lactic Acid

R.T.: 3.674 min
Delta R.T.: 0.025 min
Response: 463911
Conc: 9.31 ppm



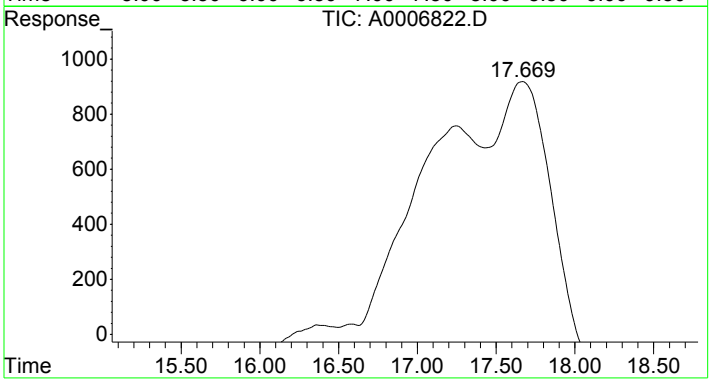
#4 Acetic Acid

R.T.: 3.983 min
Delta R.T.: 0.004 min
Response: 573181
Conc: 9.50 ppm m



#5 Propionic Acid

R.T.: 7.333 min
Delta R.T.: -0.012 min
Response: 531264
Conc: 9.44 ppm m



#6 Butyric Acid

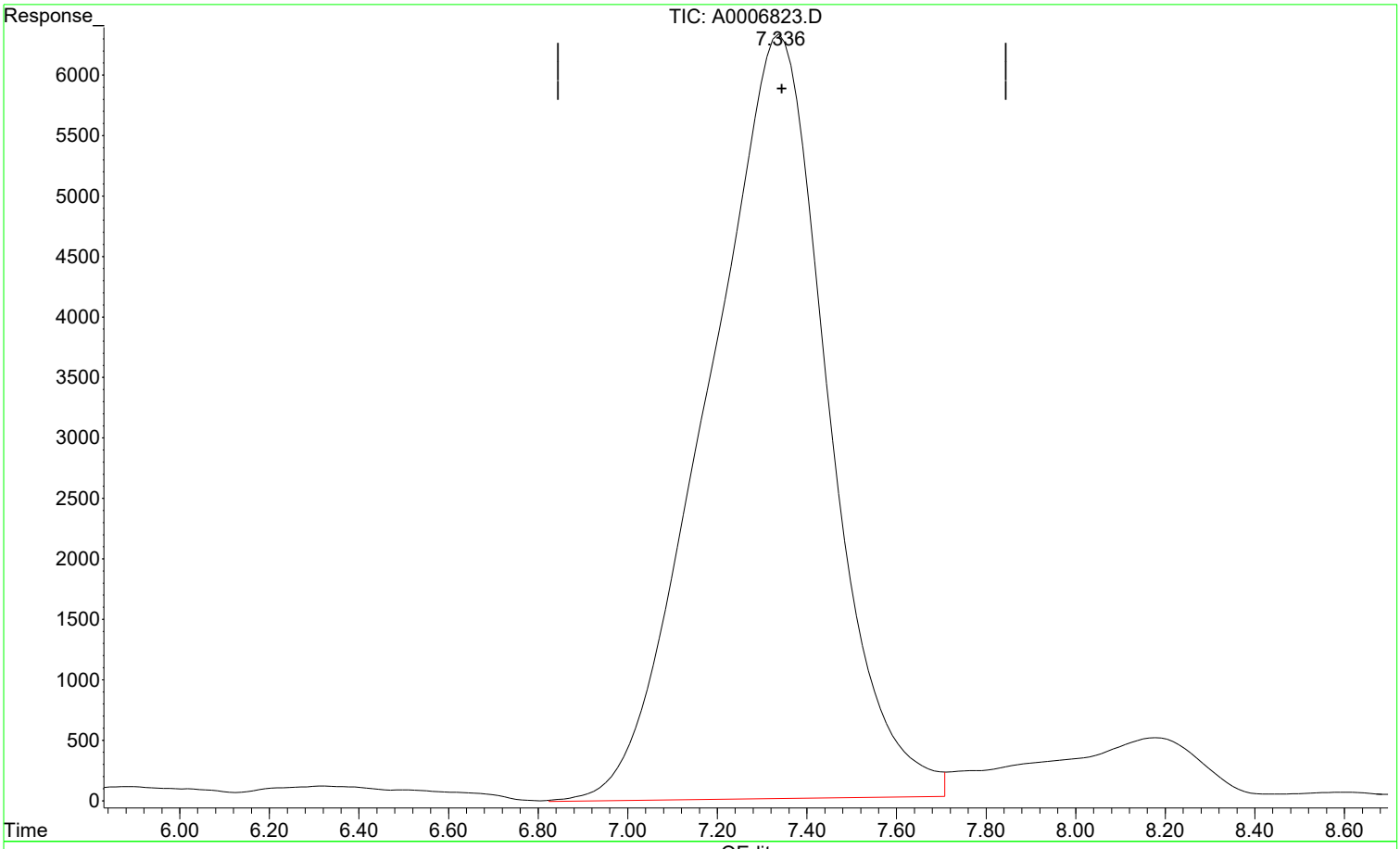
R.T.: 17.669 min
Delta R.T.: -0.105 min
Response: 699800
Conc: 9.05 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006823.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 23:46:43
Operator : AFelser
Sample : 2/20 STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:33 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.336min 20.776 ppm m

response 1169167

Manual Integration:

After

Poor integration.

06/07/24

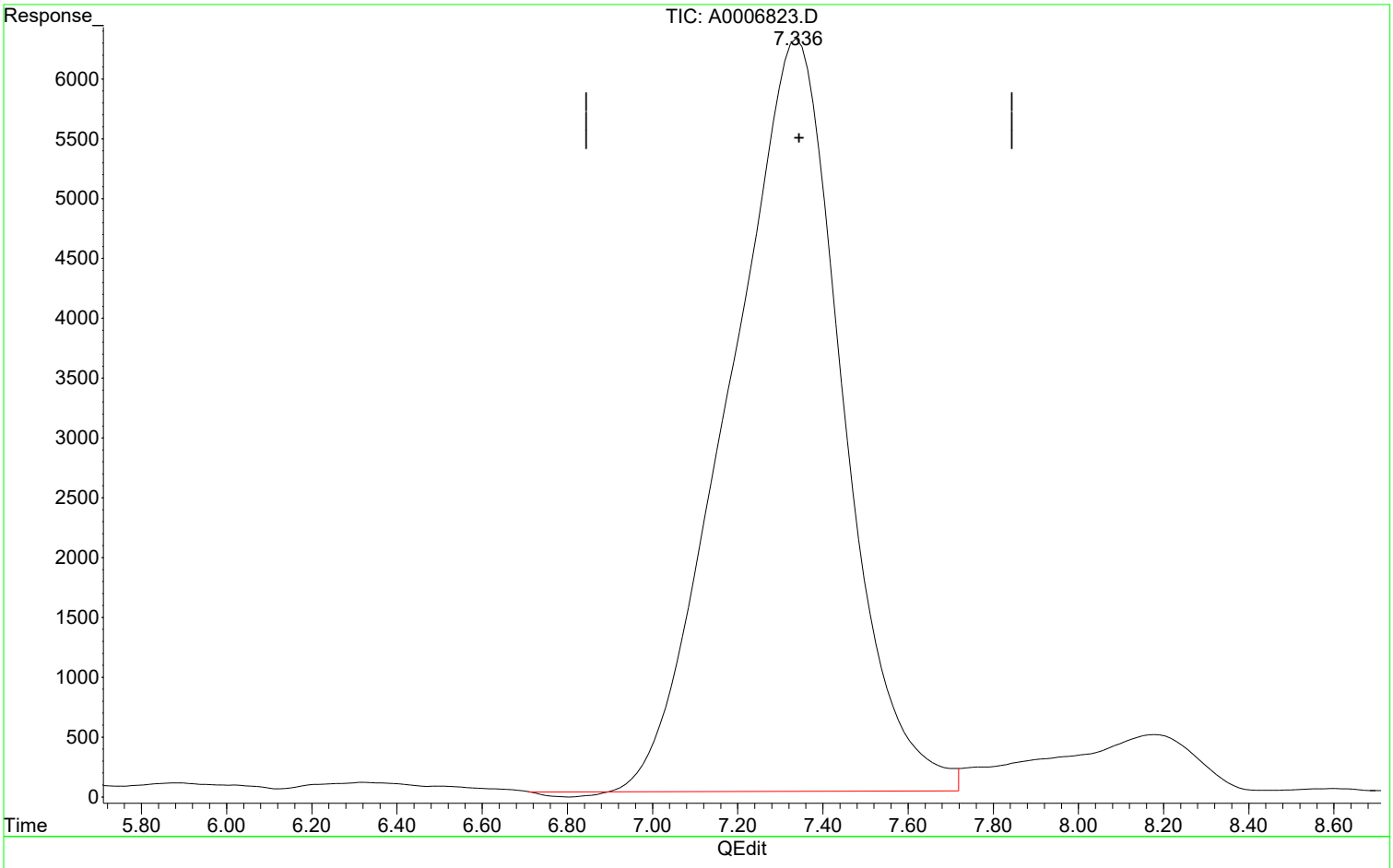
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006823.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 23:46:43
Operator : AFelser
Sample : 2/20 STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:33 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.341min 20.486 ppm

response 1152837

Manual Integration:

Before

06/07/24

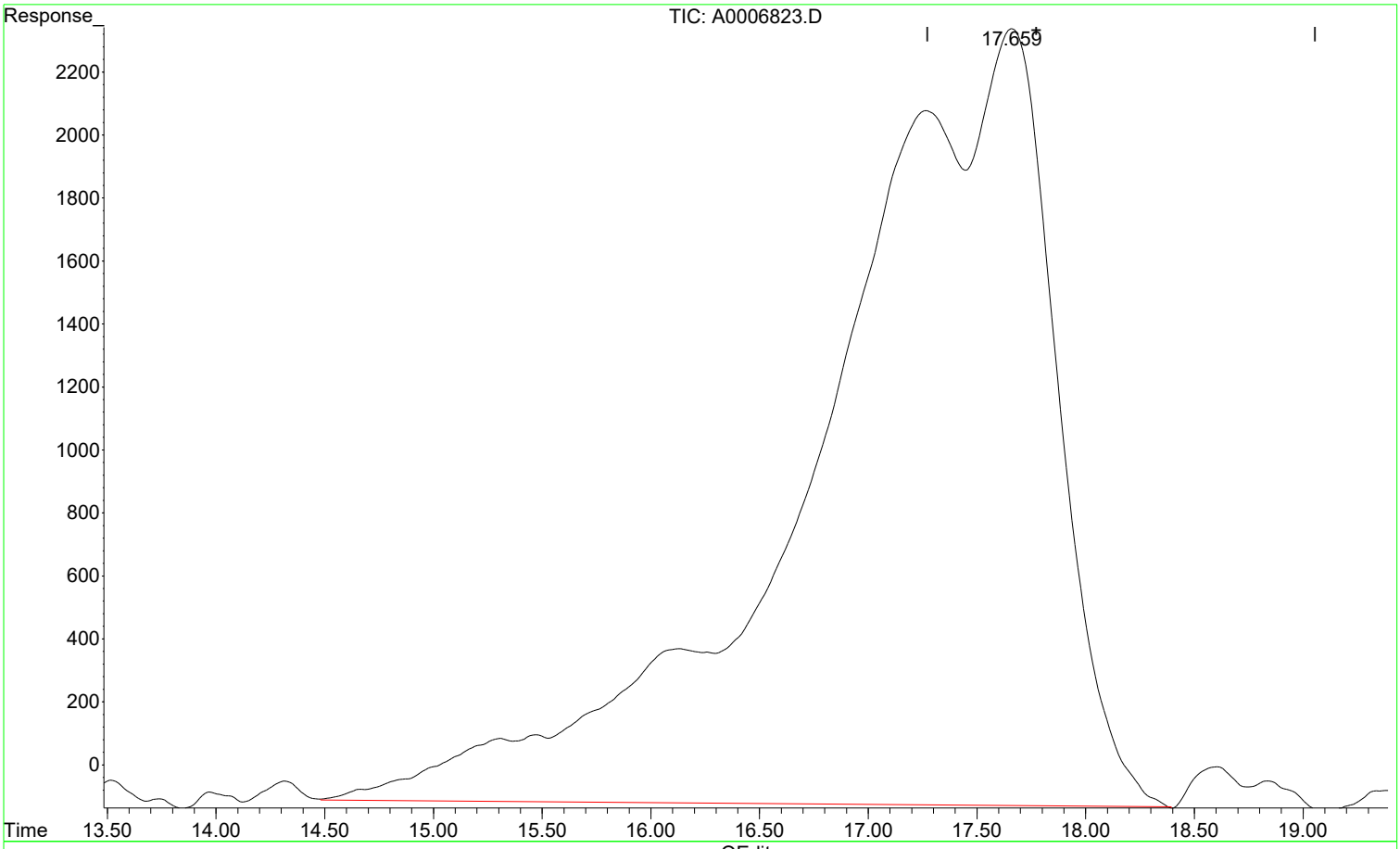
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006823.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 23:46:43
Operator : AFelser
Sample : 2/20 STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:33 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.659min 23.855 ppm m

response 1845400

Manual Integration:

After

Poor integration.

06/07/24

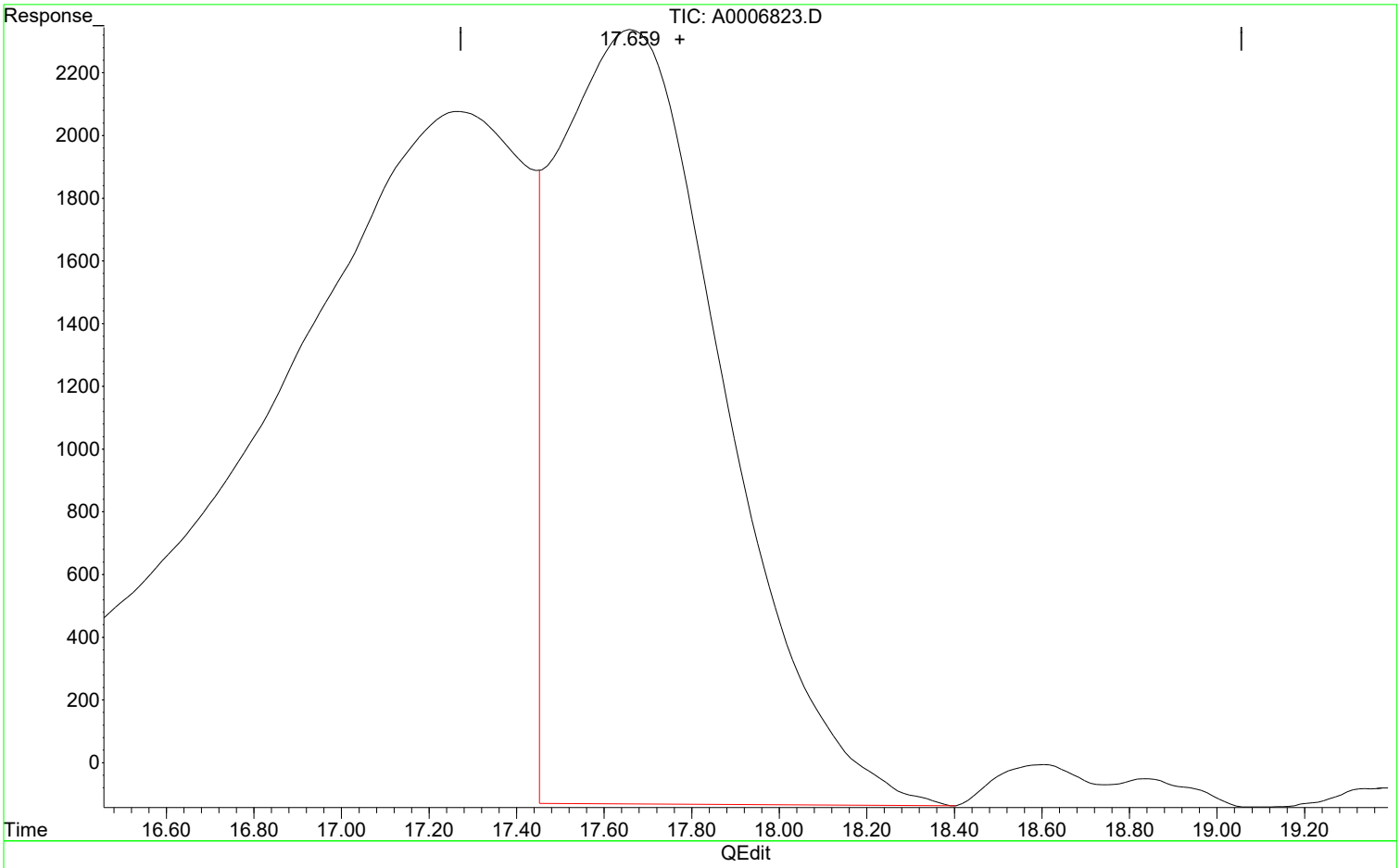
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006823.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 23:46:43
Operator : AFelser
Sample : 2/20 STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:33 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.665min 8.546 ppm

response 661139

Manual Integration:

Before

06/07/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006823.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 23:46:43
Operator : AFelser
Sample : 2/20 STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:33 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.046	1960448	20.695	ppm	
2) T	Pyruvic acid	3.370	1032765	2.055	ppm	
3) T	Lactic Acid	3.676	1031815	20.707	ppm	
4) T	Acetic Acid	3.991	1253236	20.778	ppm	
5) T	Propionic Acid	7.336	1169167	20.776	ppm	m
6) T	Butyric Acid	17.659	1845400	23.855	ppm	m

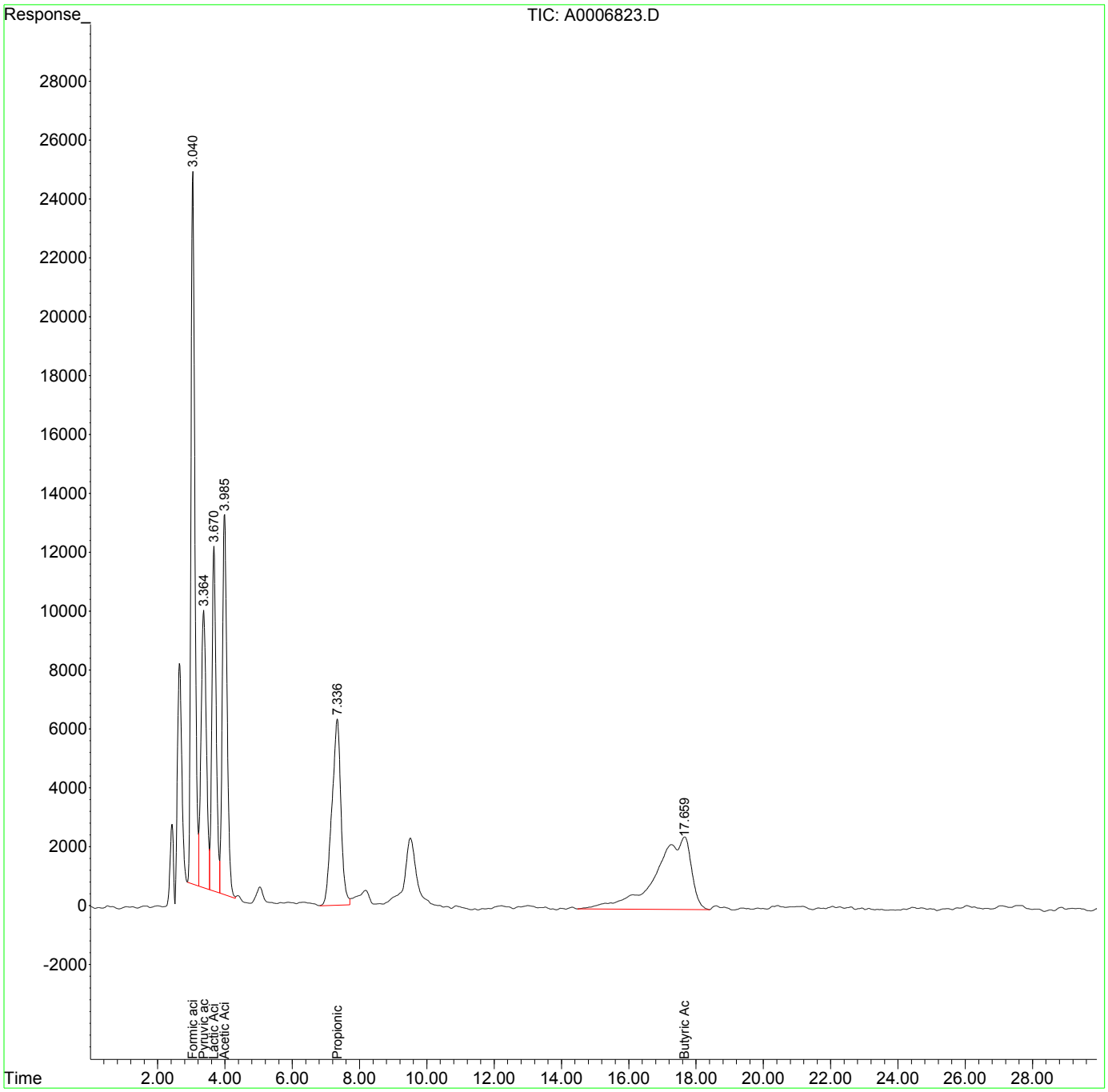
(f)=RT Delta > 1/2 Window (m)=manual int.

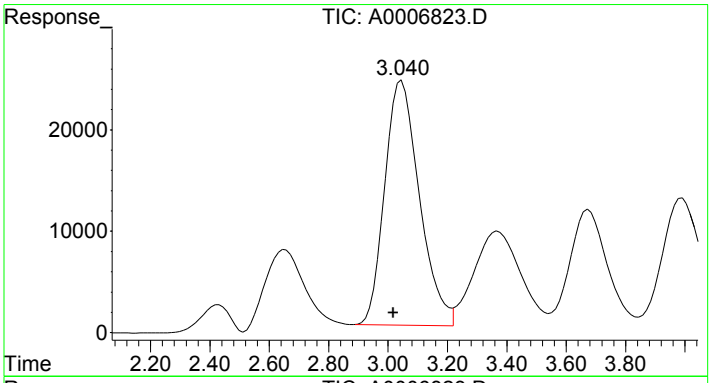
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006823.D
Signal(s) : dad1A.ch
Acq On : 06-Jun-2024, 23:46:43
Operator : AFelser
Sample : 2/20 STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:33 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

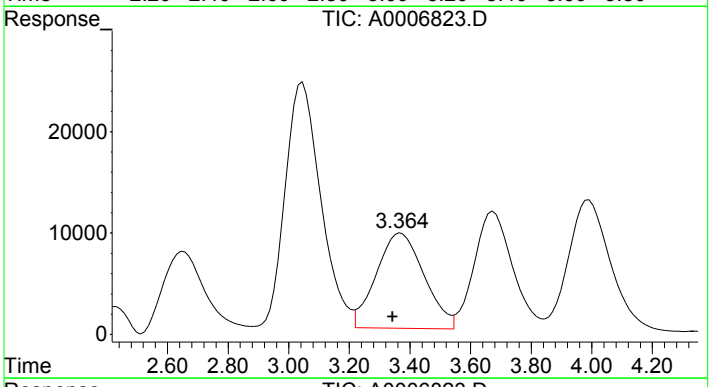
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





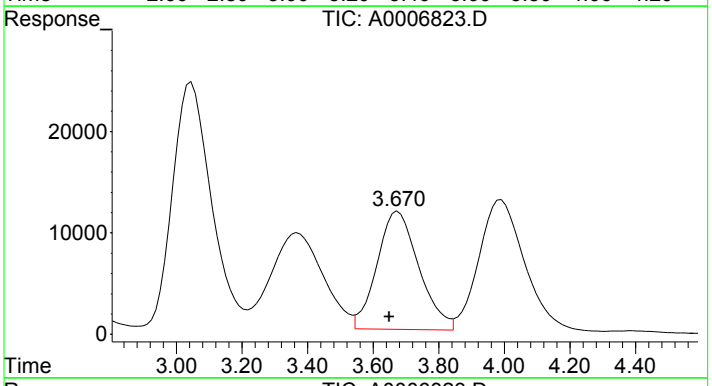
#1 Formic acid

R.T.: 3.046 min
Delta R.T.: 0.029 min
Response: 1960448
Conc: 20.69 ppm



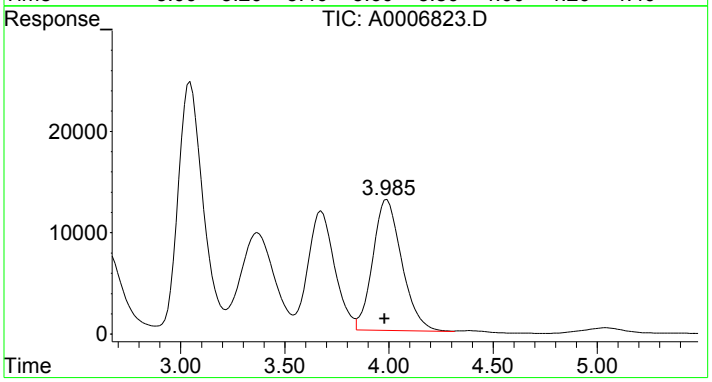
#2 Pyruvic acid

R.T.: 3.370 min
Delta R.T.: 0.027 min
Response: 1032765
Conc: 2.06 ppm



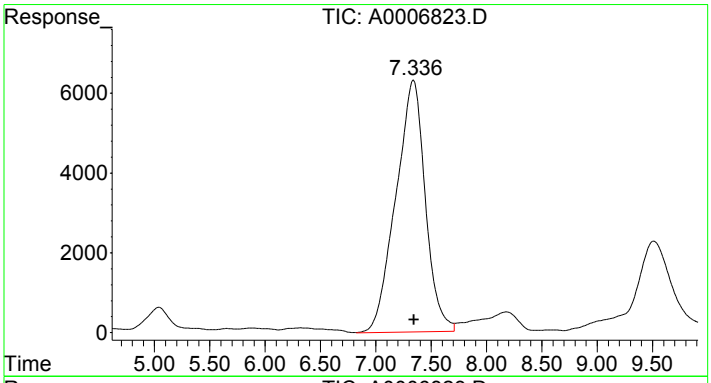
#3 Lactic Acid

R.T.: 3.676 min
Delta R.T.: 0.026 min
Response: 1031815
Conc: 20.71 ppm



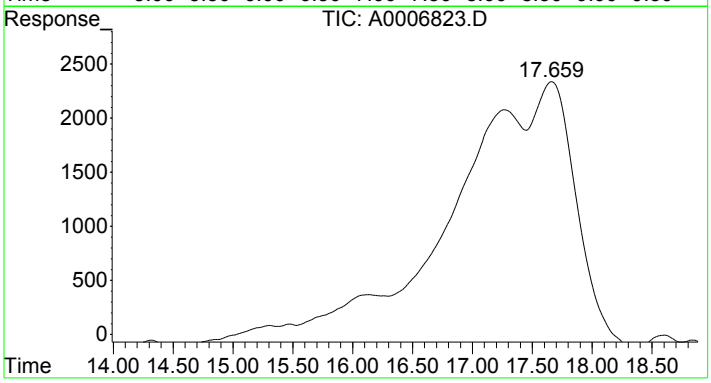
#4 Acetic Acid

R.T.: 3.991 min
Delta R.T.: 0.012 min
Response: 1253236
Conc: 20.78 ppm



#5 Propionic Acid

R.T.: 7.336 min
Delta R.T.: -0.009 min
Response: 1169167
Conc: 20.78 ppm m



#6 Butyric Acid

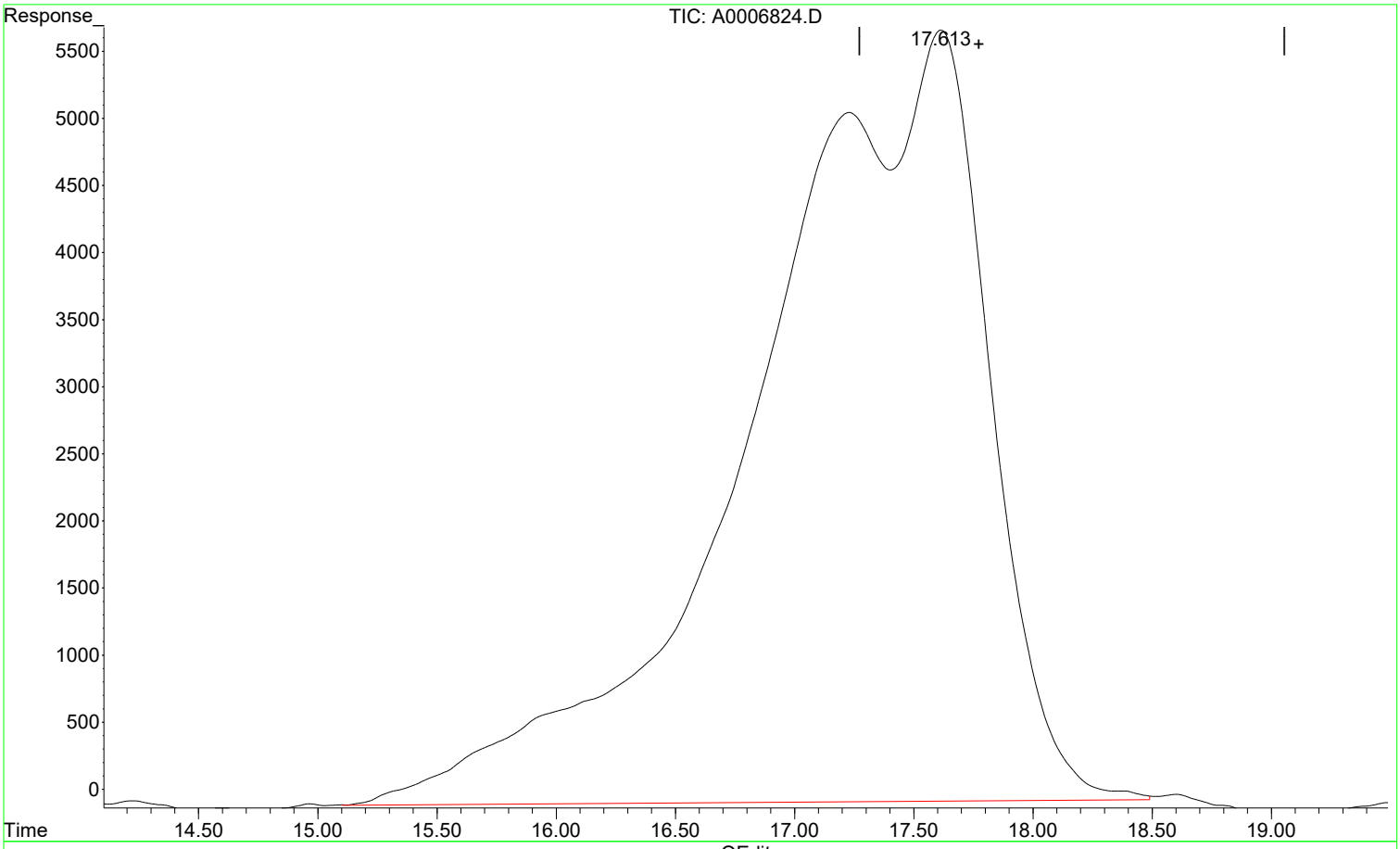
R.T.: 17.659 min
Delta R.T.: -0.114 min
Response: 1845400
Conc: 23.85 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006824.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 00:19:02
Operator : AFelser
Sample : 5/50 STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:03:22 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Thu Jun 06 08:31:11 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.613min 52.748 ppm m

response 3867956

Manual Integration:

After

Poor integration.

06/07/24

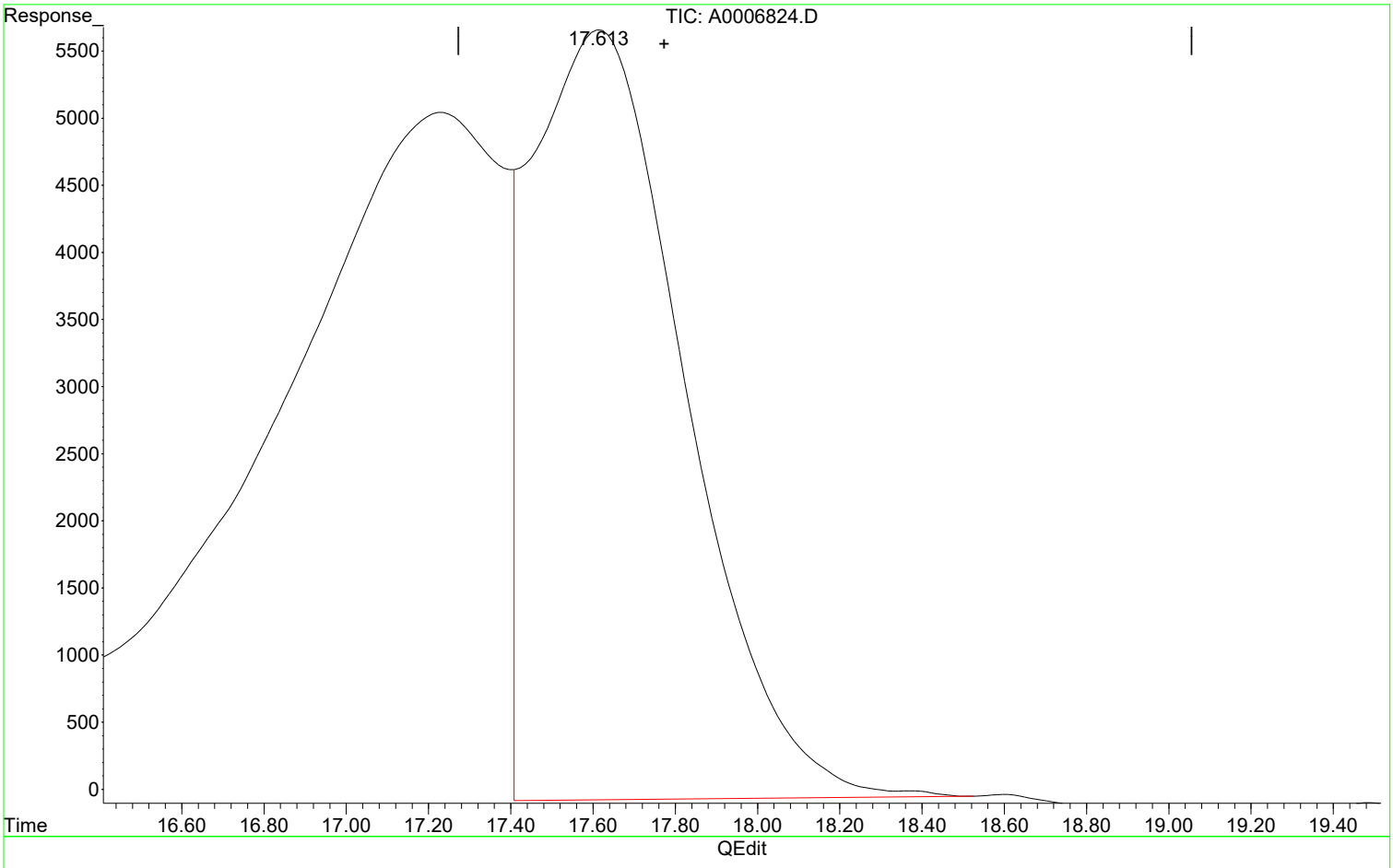
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006824.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 00:19:02
Operator : AFelser
Sample : 5/50 STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:03:22 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Thu Jun 06 08:31:11 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.619min 20.632 ppm

response 1512915

Manual Integration:

Before

06/07/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006824.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 00:19:02
Operator : AFelser
Sample : 5/50 STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:03:22 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Thu Jun 06 08:31:11 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.043	4736615	54.047	ppm	
2) T	Pyruvic acid	3.368	2512801	4.786	ppm	
3) T	Lactic Acid	3.673	2491522	42.984	ppm	
4) T	Acetic Acid	3.987	3015724	35.602	ppm	
5) T	Propionic Acid	7.327	2813686	49.498	ppm	
6) T	Butyric Acid	17.613	3867956	52.748	ppm	m

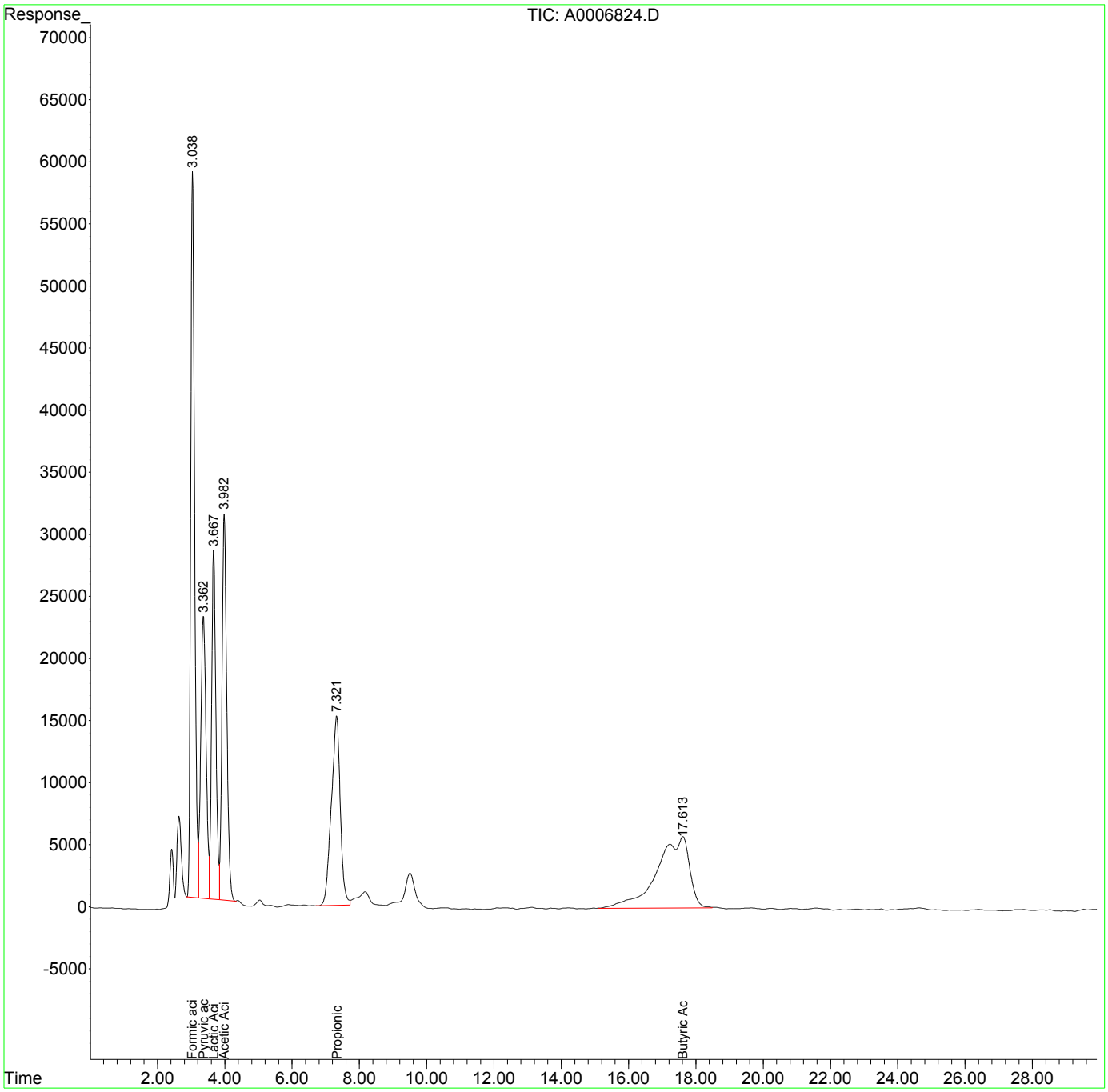
(f)=RT Delta > 1/2 Window (m)=manual int.

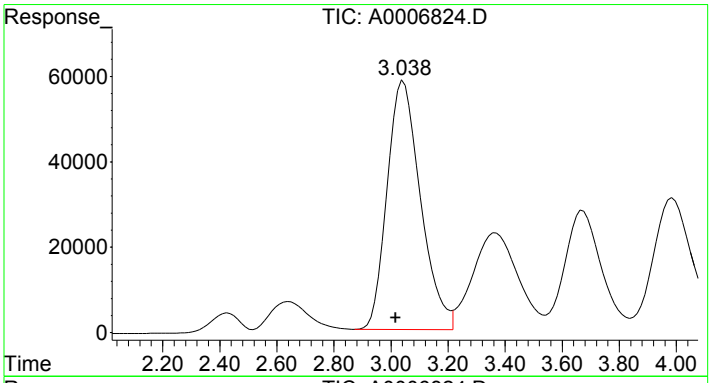
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006824.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 00:19:02
Operator : AFelser
Sample : 5/50 STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:03:22 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Thu Jun 06 08:31:11 2024
Response via : Initial Calibration
Integrator: ChemStation

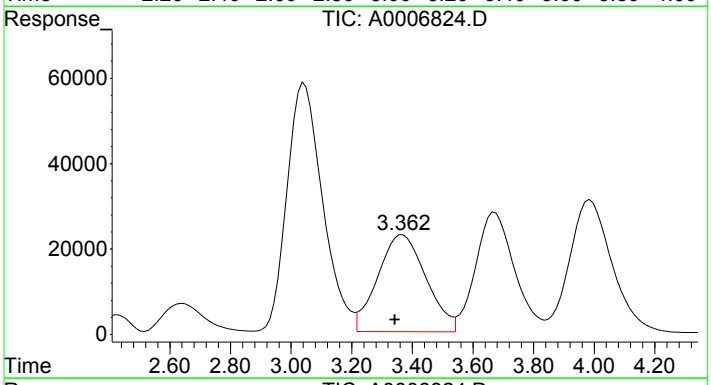
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





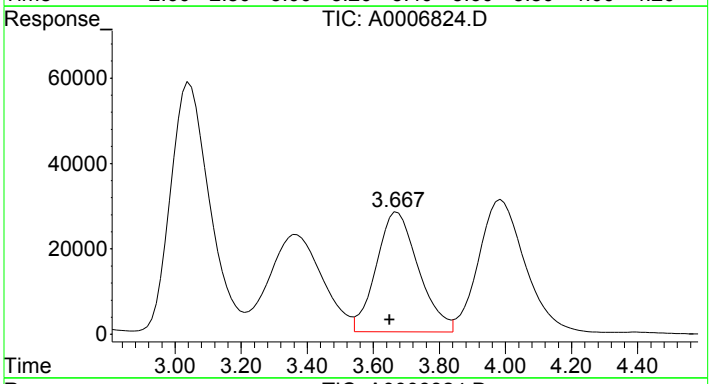
#1 Formic acid

R.T.: 3.043 min
Delta R.T.: 0.026 min
Response: 4736615
Conc: 54.05 ppm



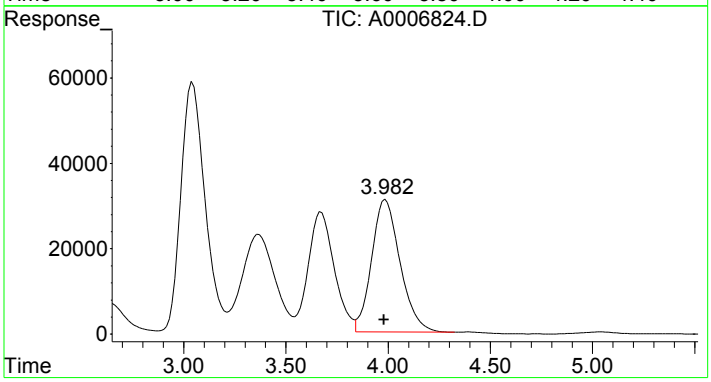
#2 Pyruvic acid

R.T.: 3.368 min
Delta R.T.: 0.024 min
Response: 2512801
Conc: 4.79 ppm



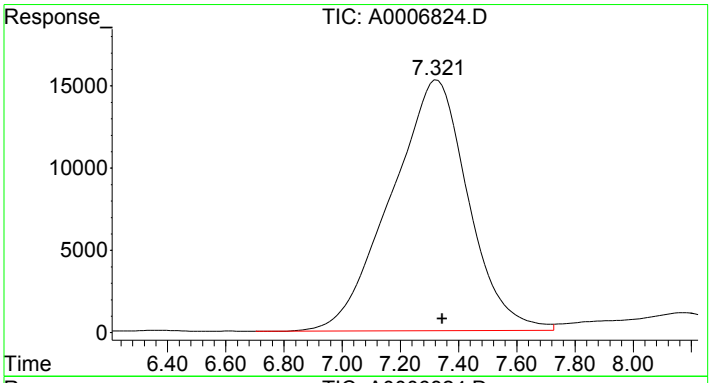
#3 Lactic Acid

R.T.: 3.673 min
Delta R.T.: 0.023 min
Response: 2491522
Conc: 42.98 ppm



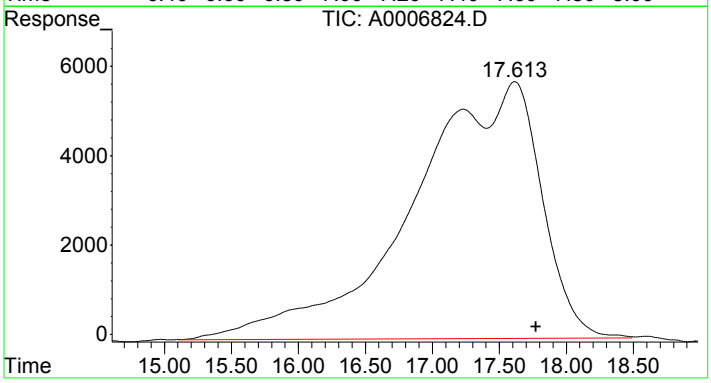
#4 Acetic Acid

R.T.: 3.987 min
Delta R.T.: 0.008 min
Response: 3015724
Conc: 35.60 ppm



#5 Propionic Acid

R.T.: 7.327 min
Delta R.T.: -0.018 min
Response: 2813686
Conc: 49.50 ppm



#6 Butyric Acid

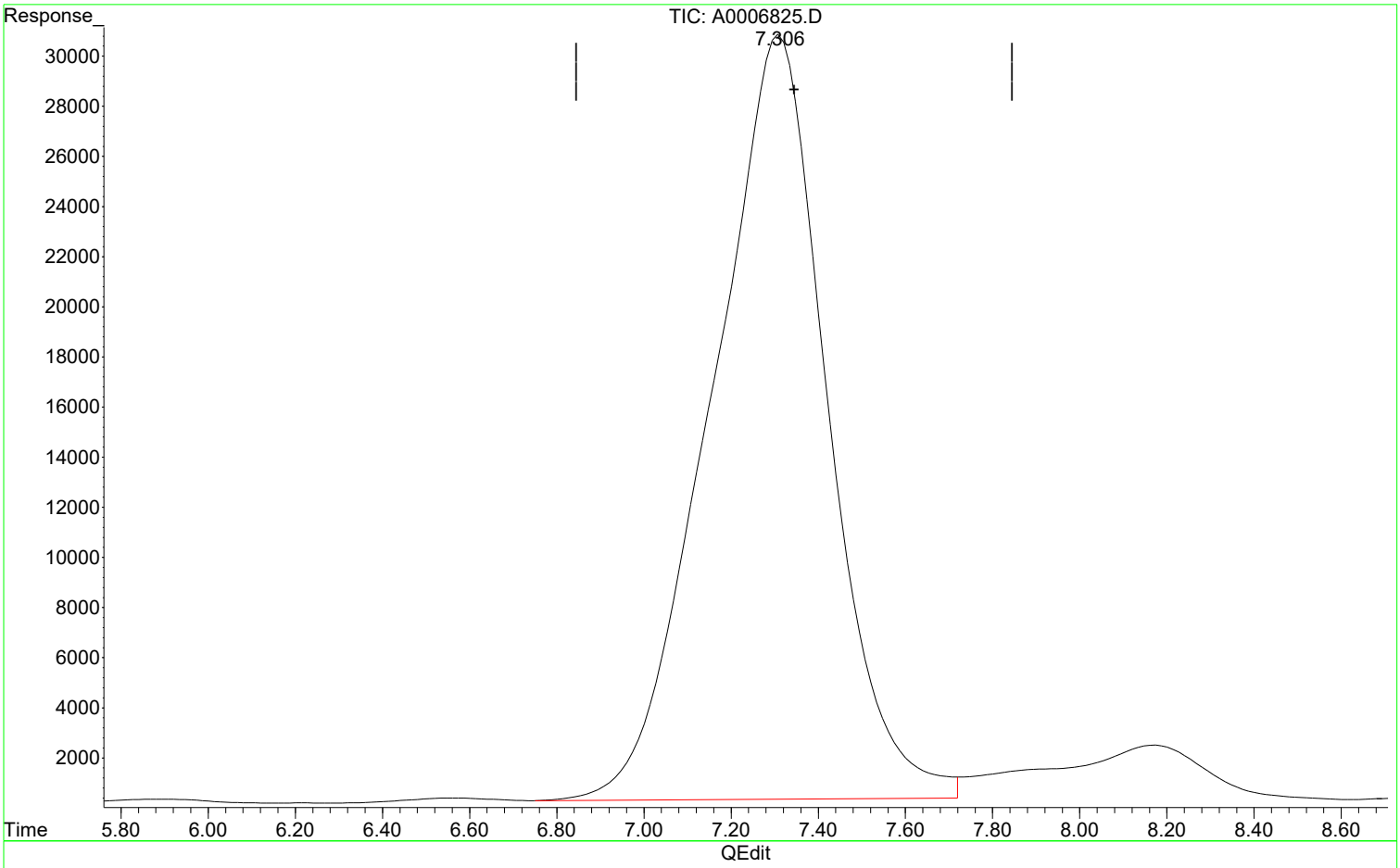
R.T.: 17.613 min
Delta R.T.: -0.160 min
Response: 3867956
Conc: 52.75 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006825.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 00:51:22
Operator : AFelser
Sample : 10/100 STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:35 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.306min 99.374 ppm m

response 5592171

Manual Integration:

After

Poor integration.

06/07/24

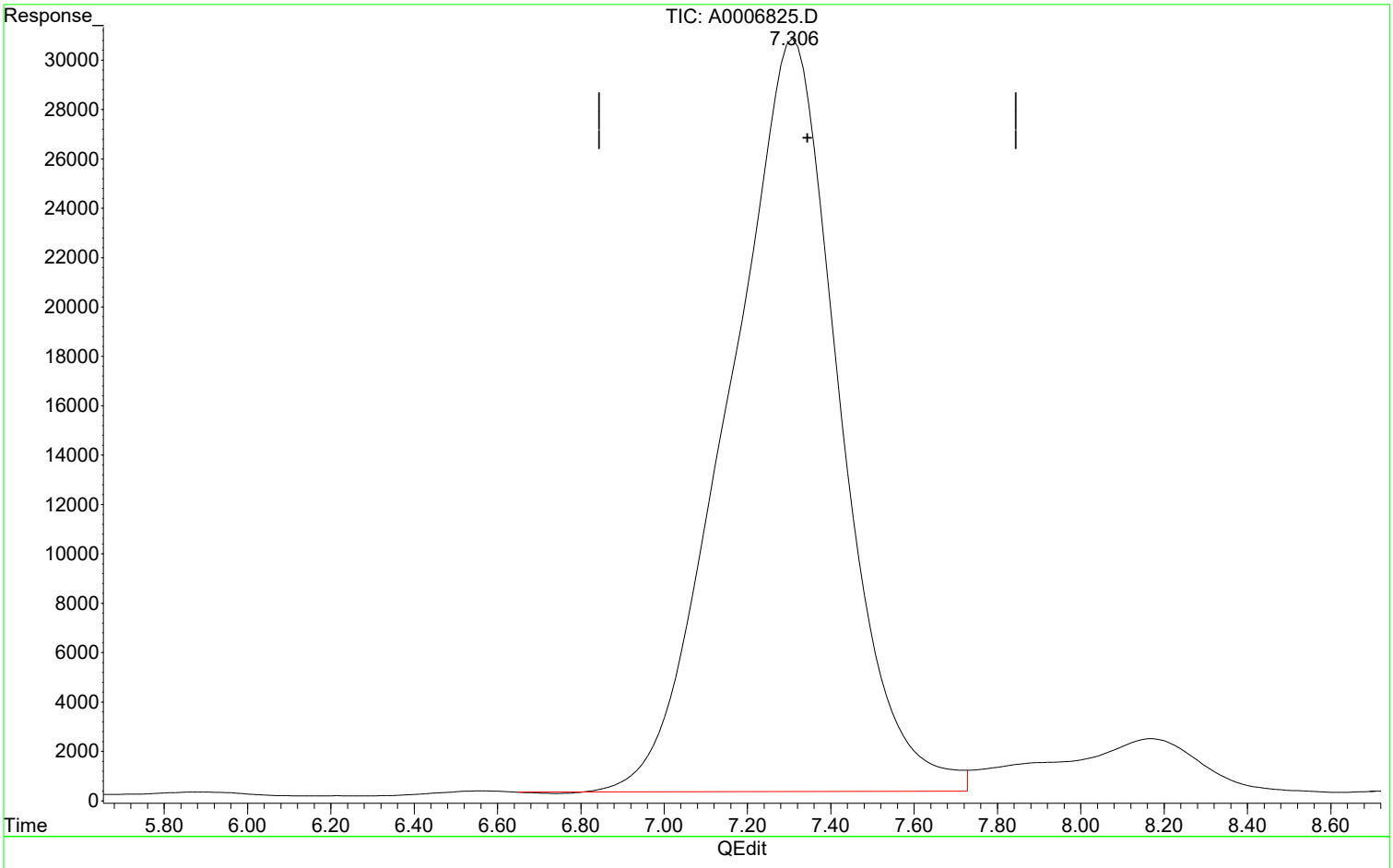
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006825.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 00:51:22
Operator : AFelser
Sample : 10/100 STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:35 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.312min 99.160 ppm

response 5580106

Manual Integration:

Before

06/07/24

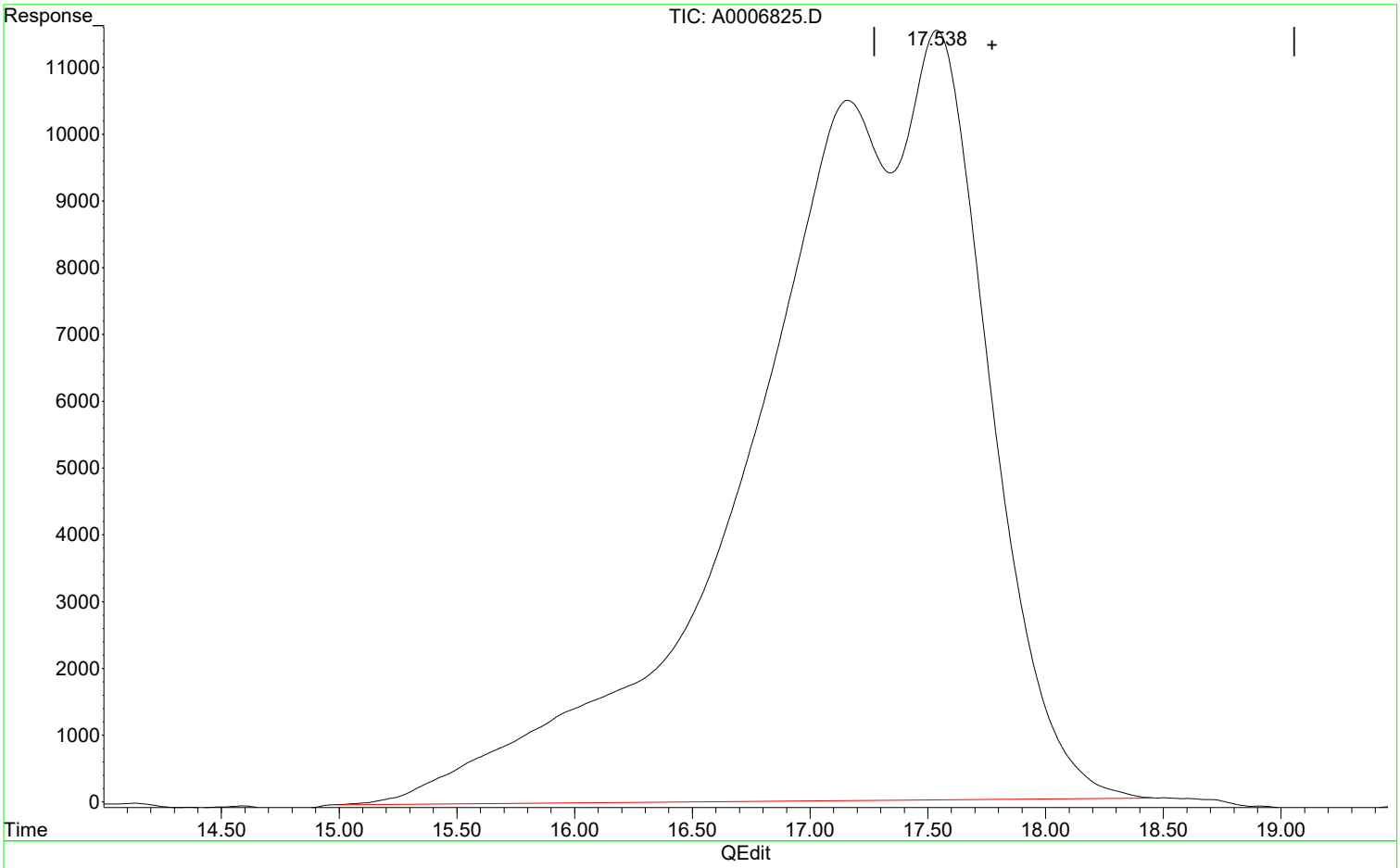
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006825.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 00:51:22
Operator : AFelser
Sample : 10/100 STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:35 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.538min 99.006 ppm m

response 7658991

Manual Integration:

After

Poor integration.

06/07/24

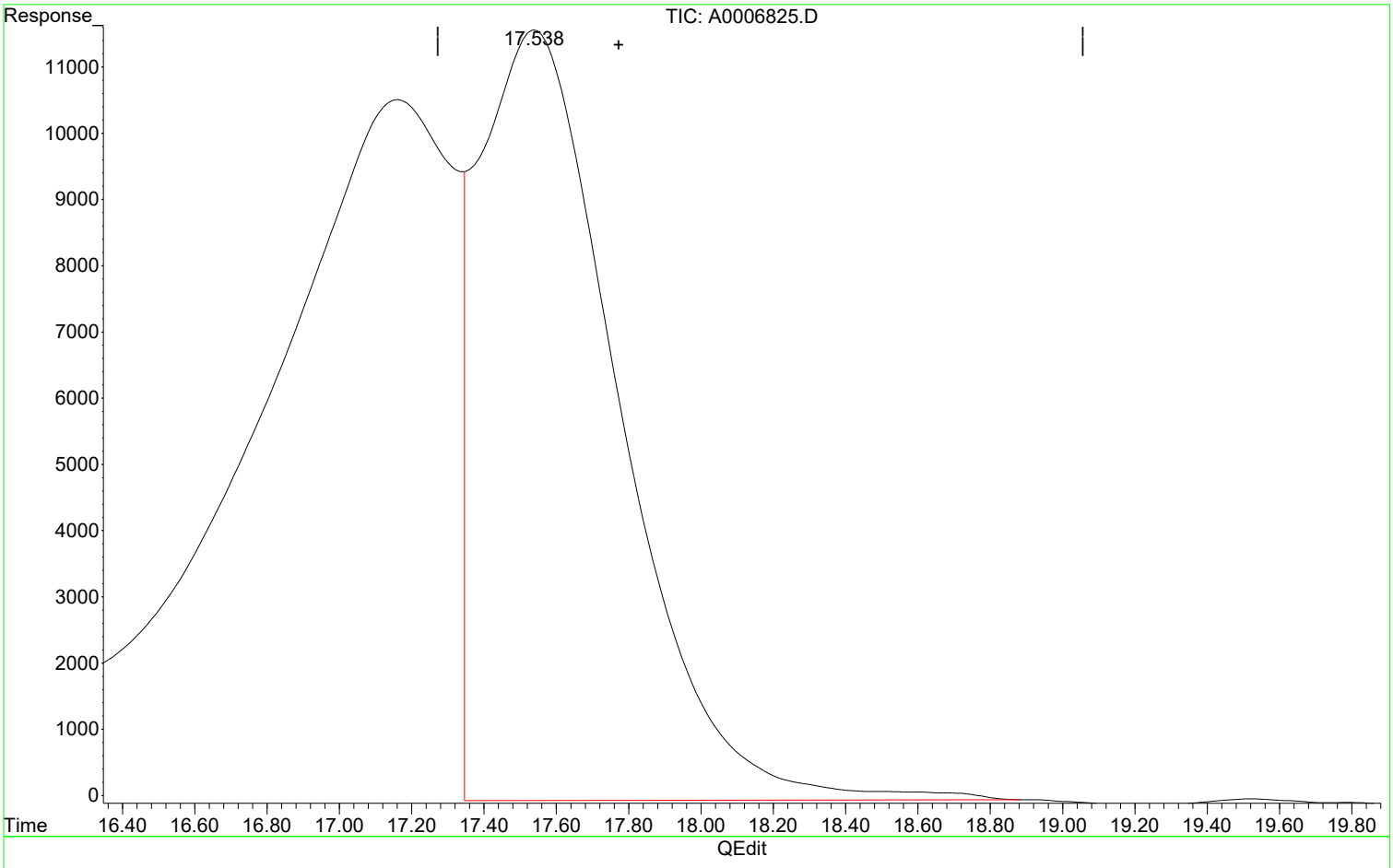
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006825.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 00:51:22
Operator : AFelser
Sample : 10/100 STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:35 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.543min 41.163 ppm

response 3184363

Manual Integration:

Before

06/07/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006825.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 00:51:22
Operator : AFelser
Sample : 10/100 STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:35 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.041	9476347	100.033	ppm	
2) T	Pyruvic acid	3.365	5059941	10.068	ppm	
3) T	Lactic Acid	3.670	4959174	99.521	ppm	
4) T	Acetic Acid	3.983	5989638	99.307	ppm	
5) T	Propionic Acid	7.306	5592171	99.374	ppm	m
6) T	Butyric Acid	17.538	7658991	99.006	ppm	m

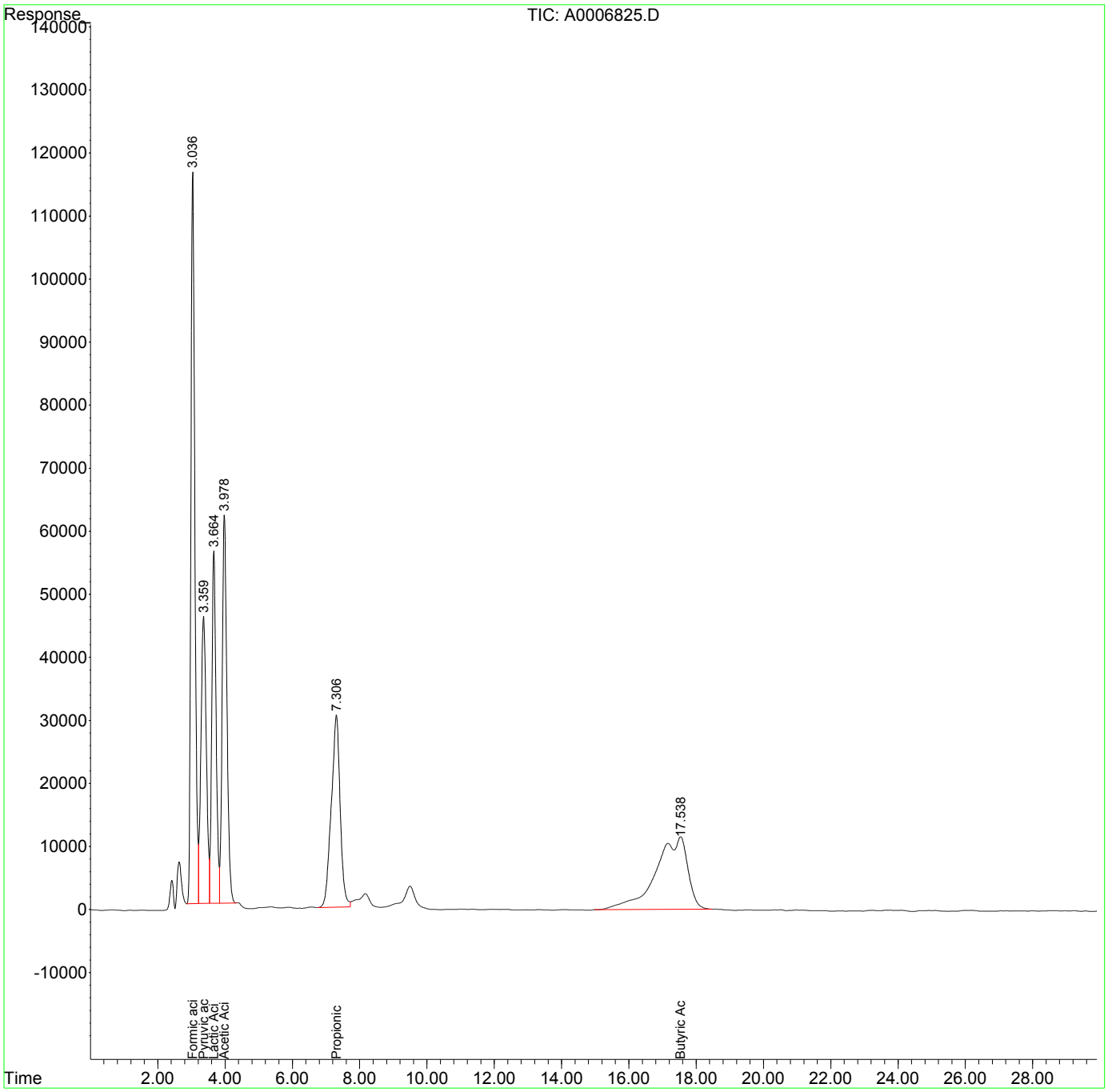
(f)=RT Delta > 1/2 Window (m)=manual int.

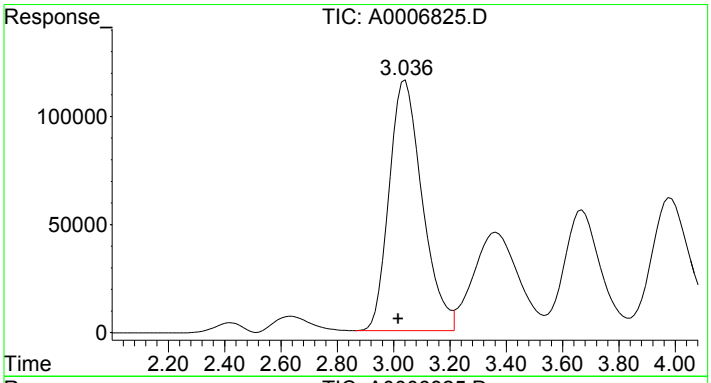
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006825.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 00:51:22
Operator : AFelser
Sample : 10/100 STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:35 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

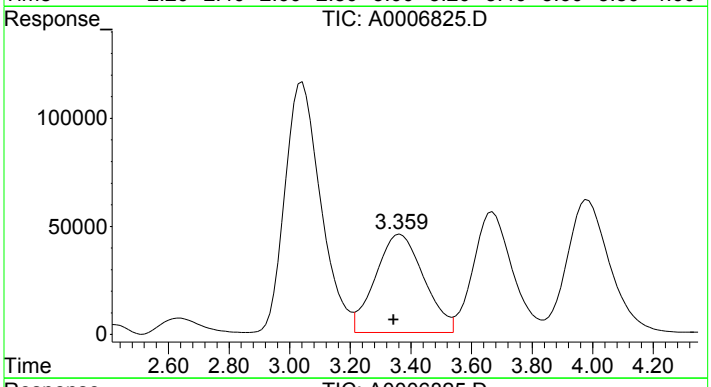
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





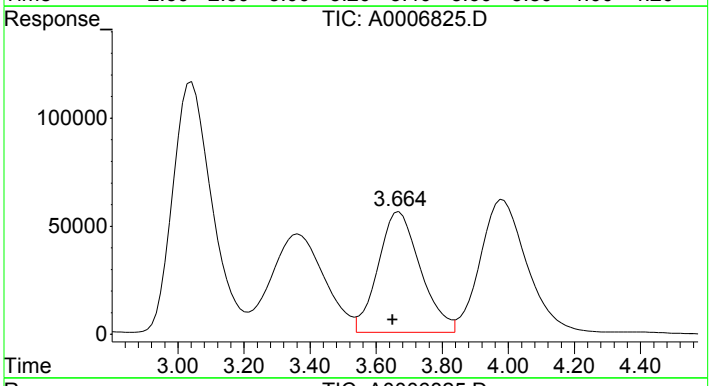
#1 Formic acid

R.T.: 3.041 min
Delta R.T.: 0.024 min
Response: 9476347
Conc: 100.03 ppm



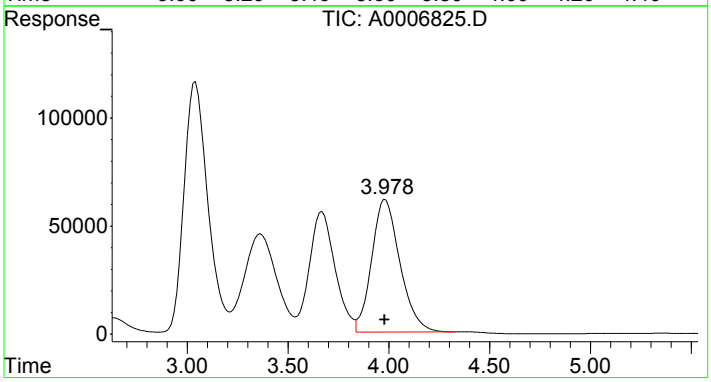
#2 Pyruvic acid

R.T.: 3.365 min
Delta R.T.: 0.022 min
Response: 5059941
Conc: 10.07 ppm



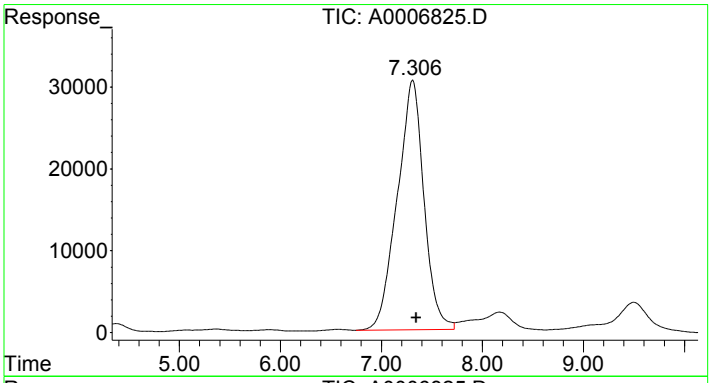
#3 Lactic Acid

R.T.: 3.670 min
Delta R.T.: 0.020 min
Response: 4959174
Conc: 99.52 ppm



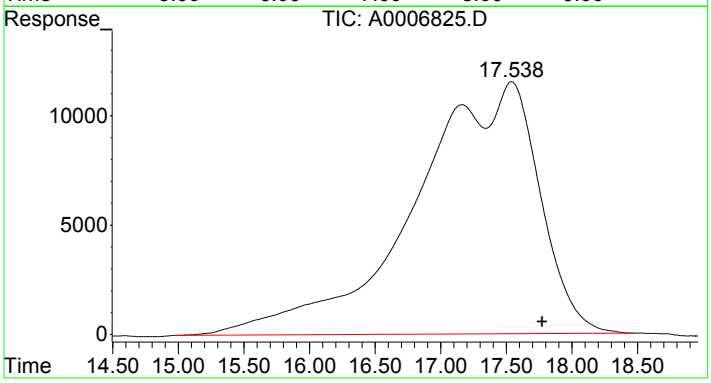
#4 Acetic Acid

R.T.: 3.983 min
Delta R.T.: 0.004 min
Response: 5989638
Conc: 99.31 ppm



#5 Propionic Acid

R.T.: 7.306 min
Delta R.T.: -0.038 min
Response: 5592171
Conc: 99.37 ppm m



#6 Butyric Acid

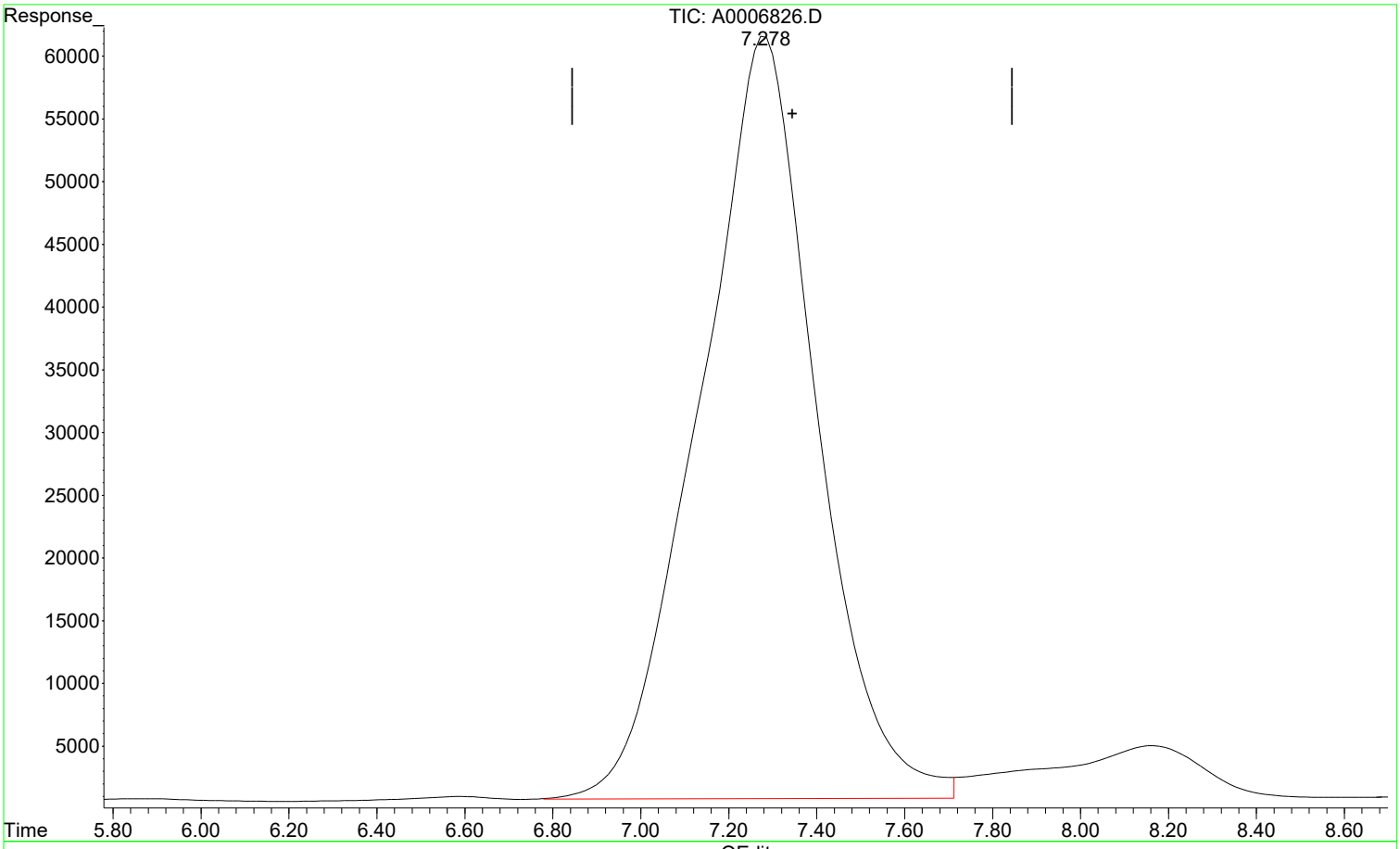
R.T.: 17.538 min
Delta R.T.: -0.235 min
Response: 7658991
Conc: 99.01 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006826.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 01:23:44
Operator : AFelser
Sample : 20/200 STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:37 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.278min 196.940 ppm m

response 11082528

Manual Integration:

After

Poor integration.

06/07/24

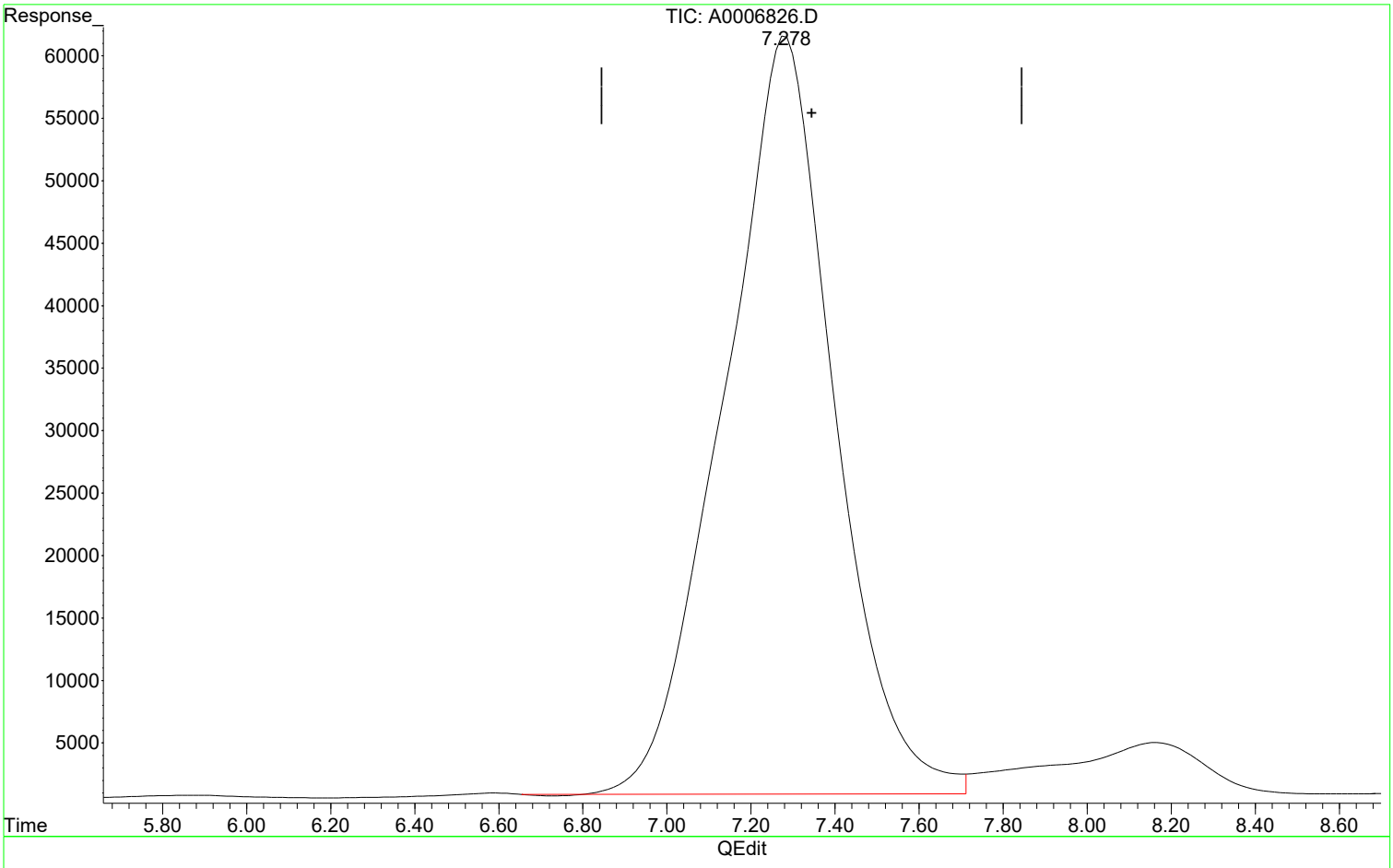
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006826.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 01:23:44
Operator : AFelser
Sample : 20/200 STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:37 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.283min 196.175 ppm

response 11039485

Manual Integration:

Before

06/07/24

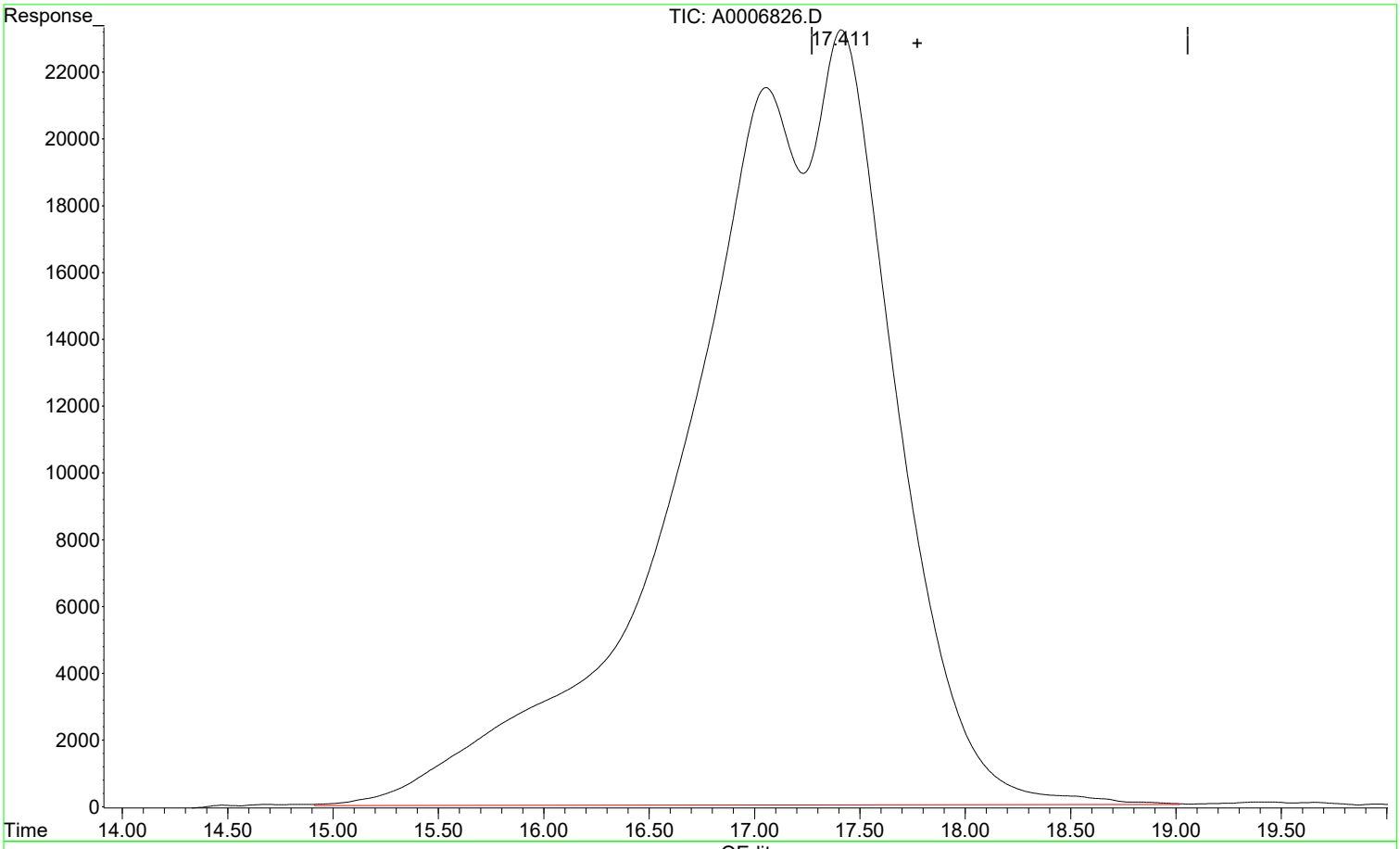
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006826.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 01:23:44
Operator : AFelser
Sample : 20/200 STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:37 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.411min 201.866 ppm m

response 15616151

Manual Integration:

After

Poor integration.

06/07/24

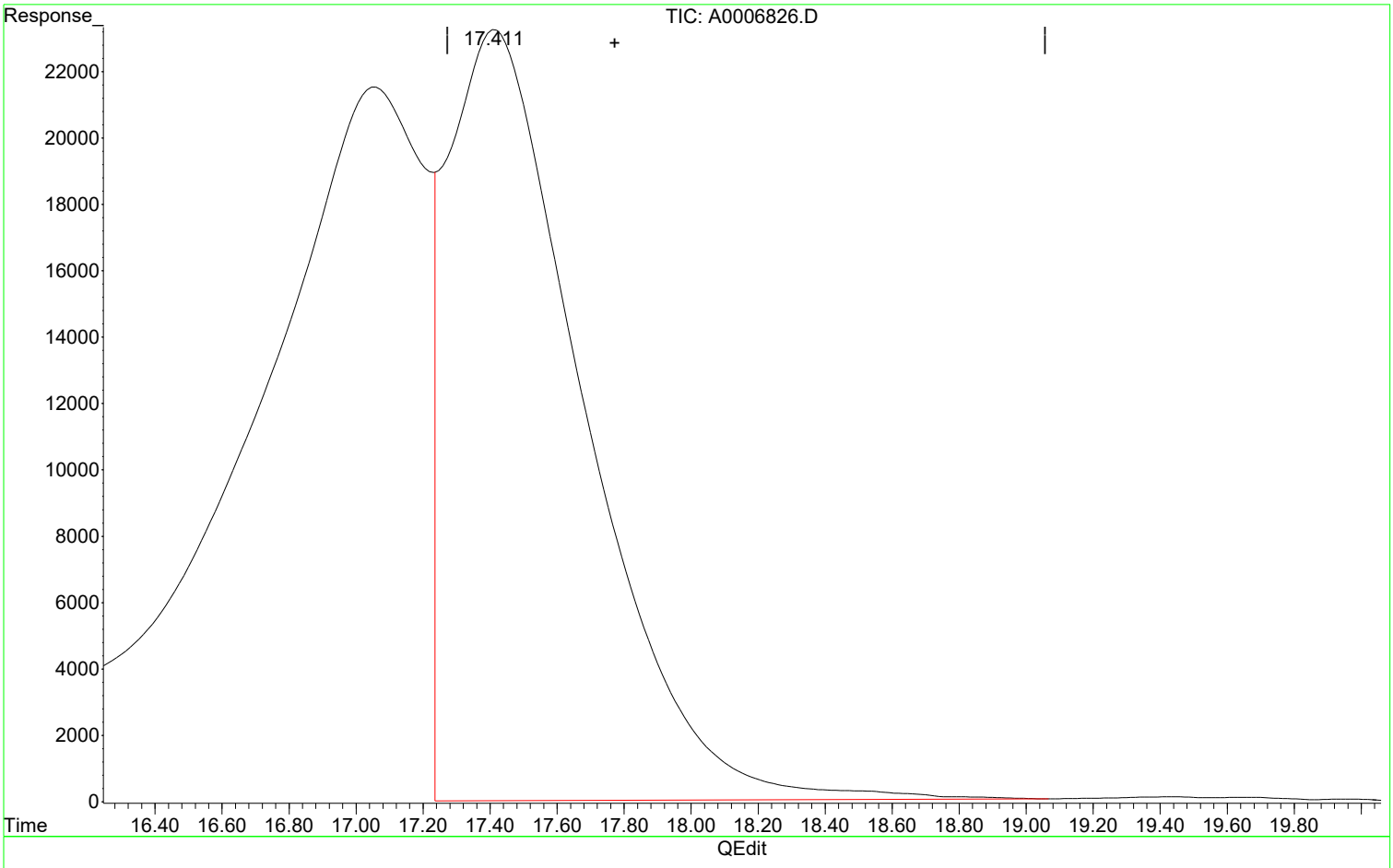
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006826.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 01:23:44
Operator : AFelser
Sample : 20/200 STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:37 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.416min 86.445 ppm

response 6687321

Manual Integration:

Before

06/07/24

(+) = Expected Retention Time

1st 06/10/24
2nd 06/10/24

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006826.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 01:23:44
Operator : AFelser
Sample : 20/200 STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:37 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.041	18929304	199.819	ppm	
2) T	Pyruvic acid	3.364	10226616	20.349	ppm	
3) T	Lactic Acid	3.668	10049562	201.675	ppm	
4) T	Acetic Acid	3.980	12331938	204.461	ppm	
5) T	Propionic Acid	7.278	11082528	196.940	ppm	m
6) T	Butyric Acid	17.411	15616151	201.866	ppm	m

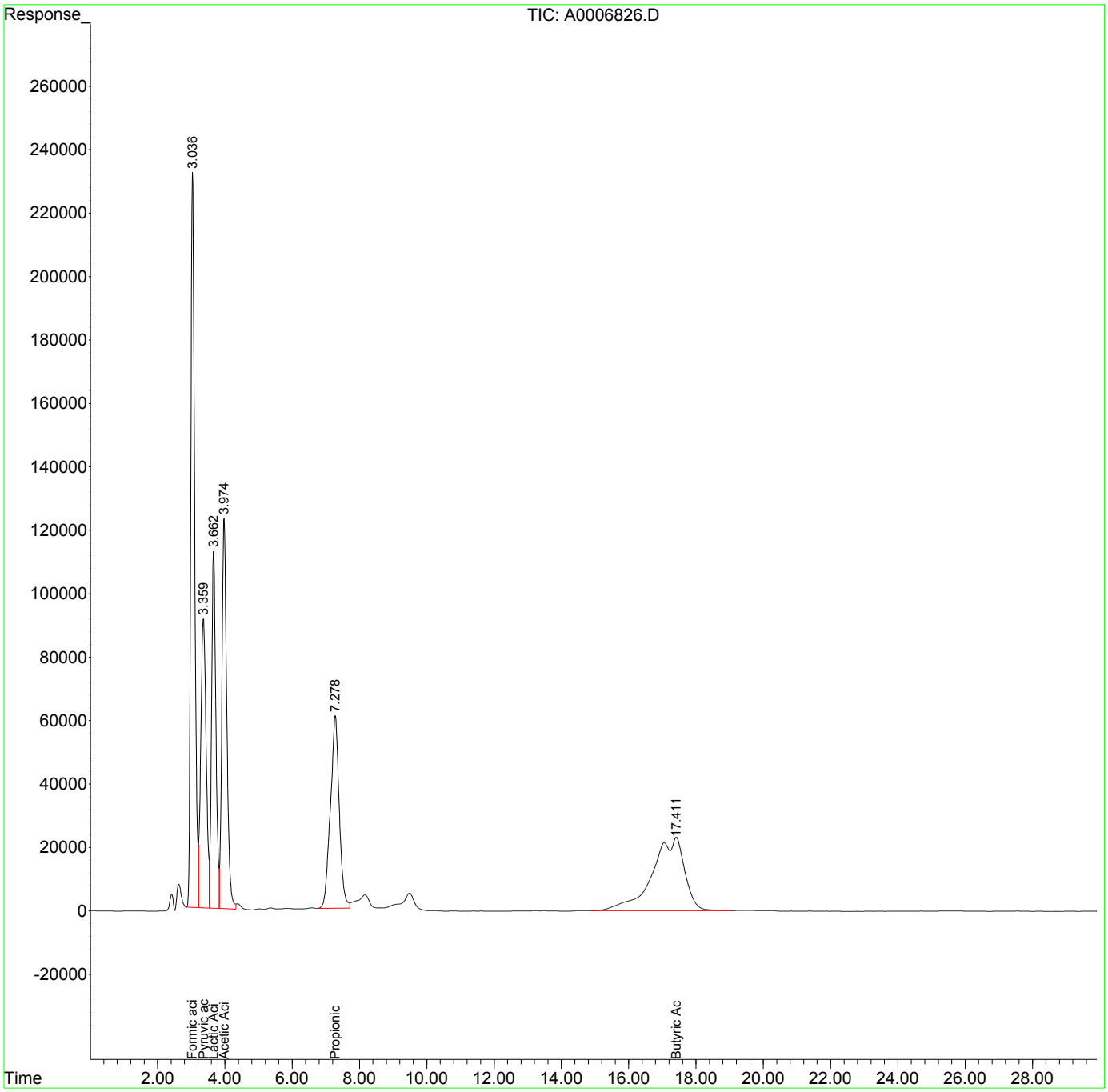
(f)=RT Delta > 1/2 Window (m)=manual int.

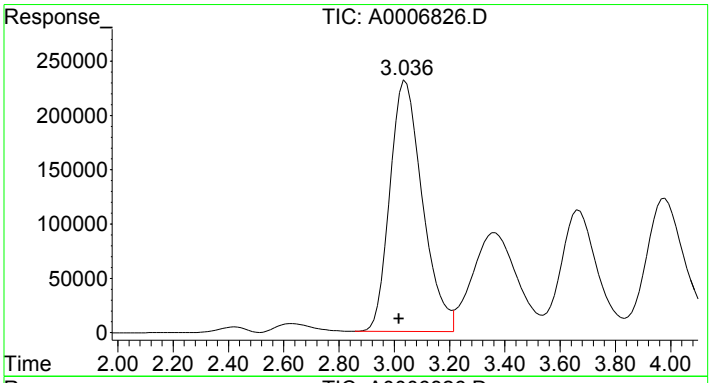
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006826.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 01:23:44
Operator : AFelser
Sample : 20/200 STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:05:37 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:05:15 2024
Response via : Initial Calibration
Integrator: ChemStation

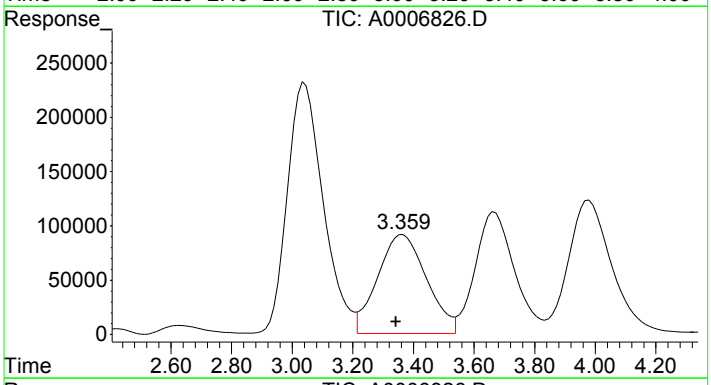
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





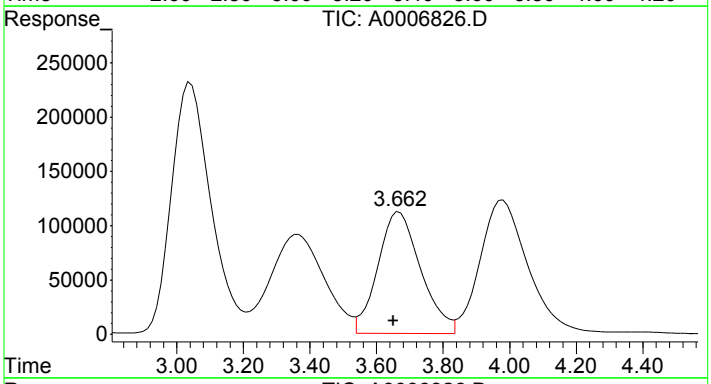
#1 Formic acid

R.T.: 3.041 min
Delta R.T.: 0.024 min
Response: 18929304
Conc: 199.82 ppm



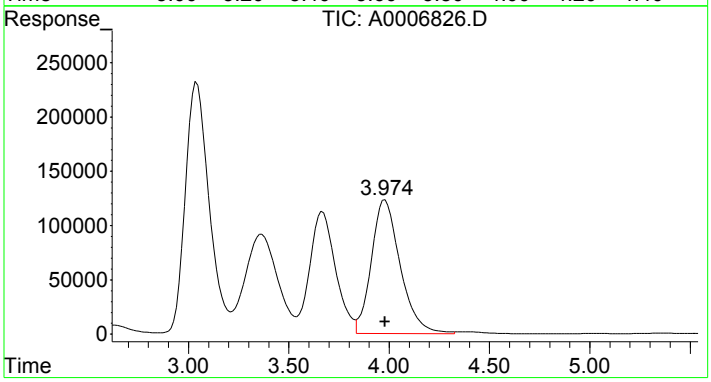
#2 Pyruvic acid

R.T.: 3.364 min
Delta R.T.: 0.021 min
Response: 10226616
Conc: 20.35 ppm



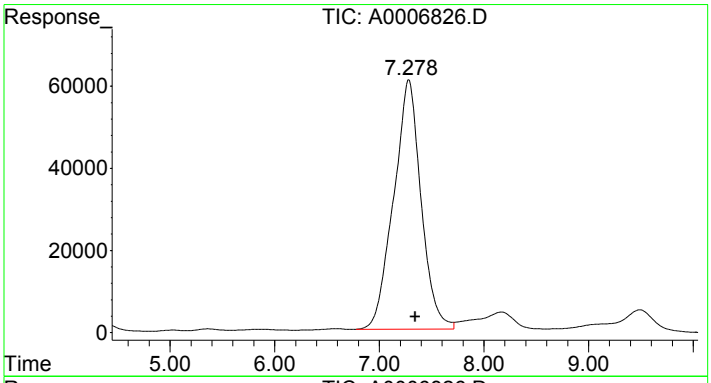
#3 Lactic Acid

R.T.: 3.668 min
Delta R.T.: 0.019 min
Response: 10049562
Conc: 201.68 ppm



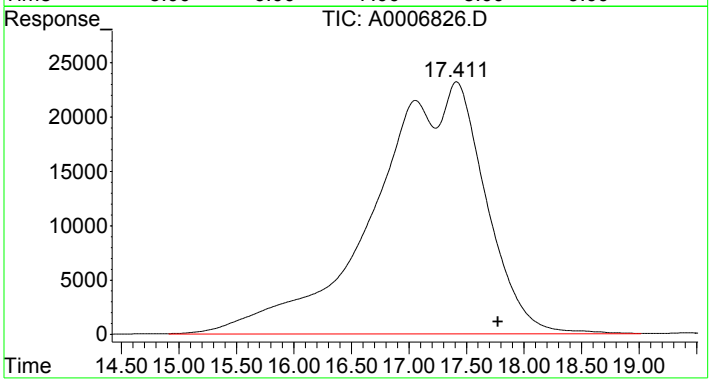
#4 Acetic Acid

R.T.: 3.980 min
Delta R.T.: 0.000 min
Response: 12331938
Conc: 204.46 ppm



#5 Propionic Acid

R.T.: 7.278 min
Delta R.T.: -0.067 min
Response: 11082528
Conc: 196.94 ppm m



#6 Butyric Acid

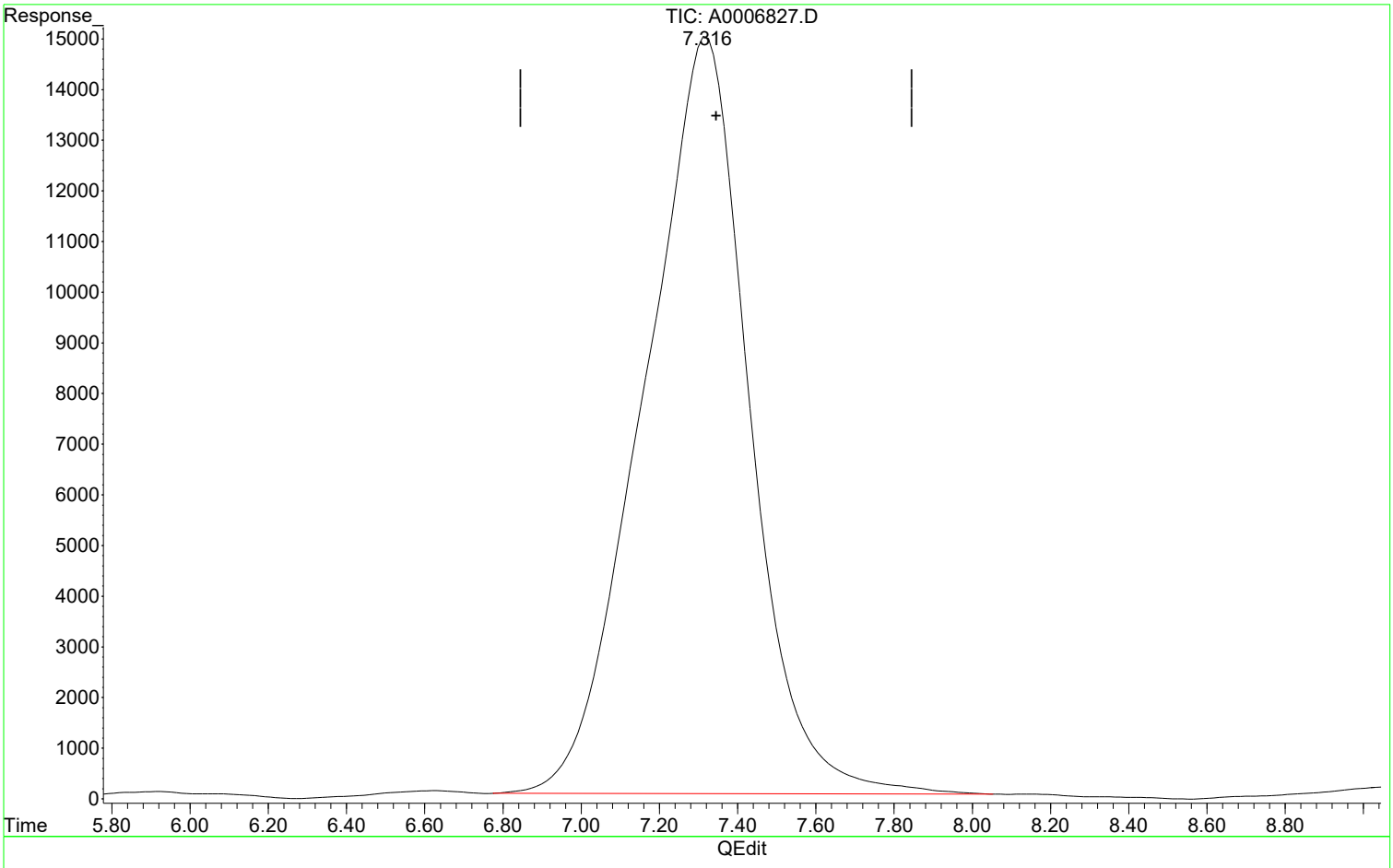
R.T.: 17.411 min
Delta R.T.: -0.362 min
Response: 15616151
Conc: 201.87 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006827.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 01:56:05
Operator : AFelser
Sample : ICV
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:13:50 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:13:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.316min 49.603 ppm m

response 2779514

Manual Integration:

After

Poor integration.

06/07/24

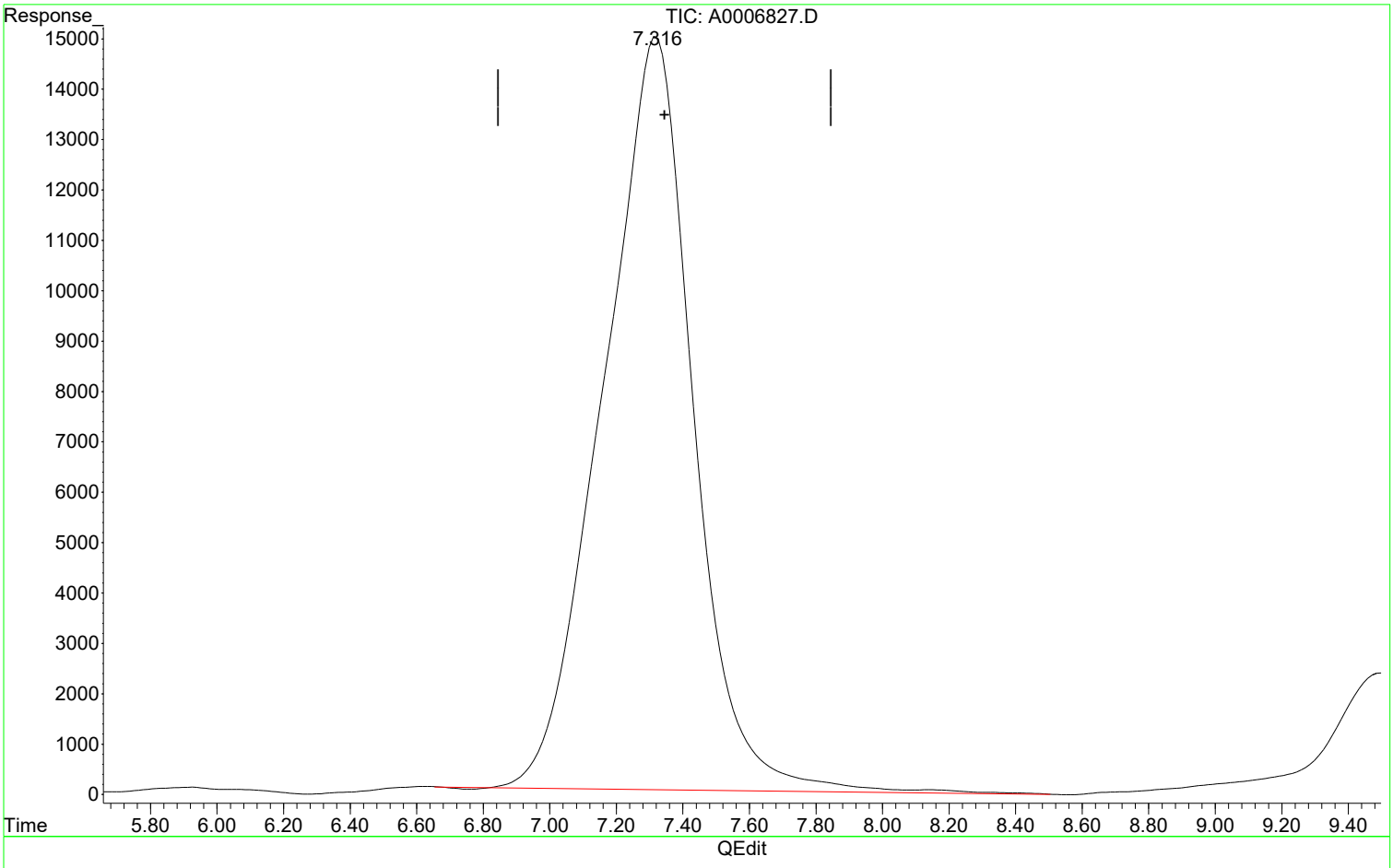
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006827.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 01:56:05
Operator : AFelser
Sample : ICV
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:13:50 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:13:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.321min 49.877 ppm

response 2794822

Manual Integration:

Before

06/07/24

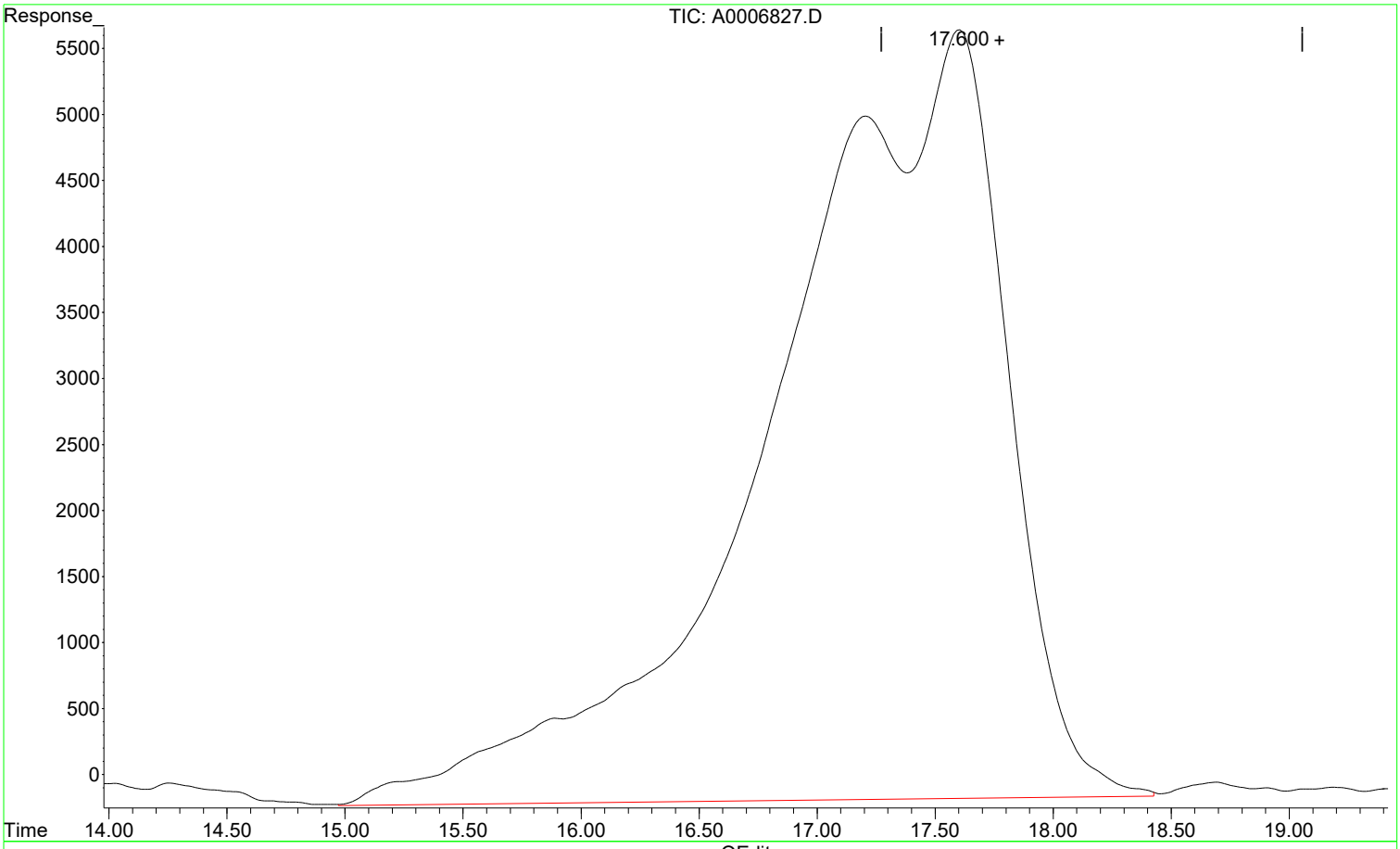
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006827.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 01:56:05
Operator : AFelser
Sample : ICV
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:13:50 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:13:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.600min 48.588 ppm m

response 3975517

Manual Integration:

After

Peak not found.

06/07/24

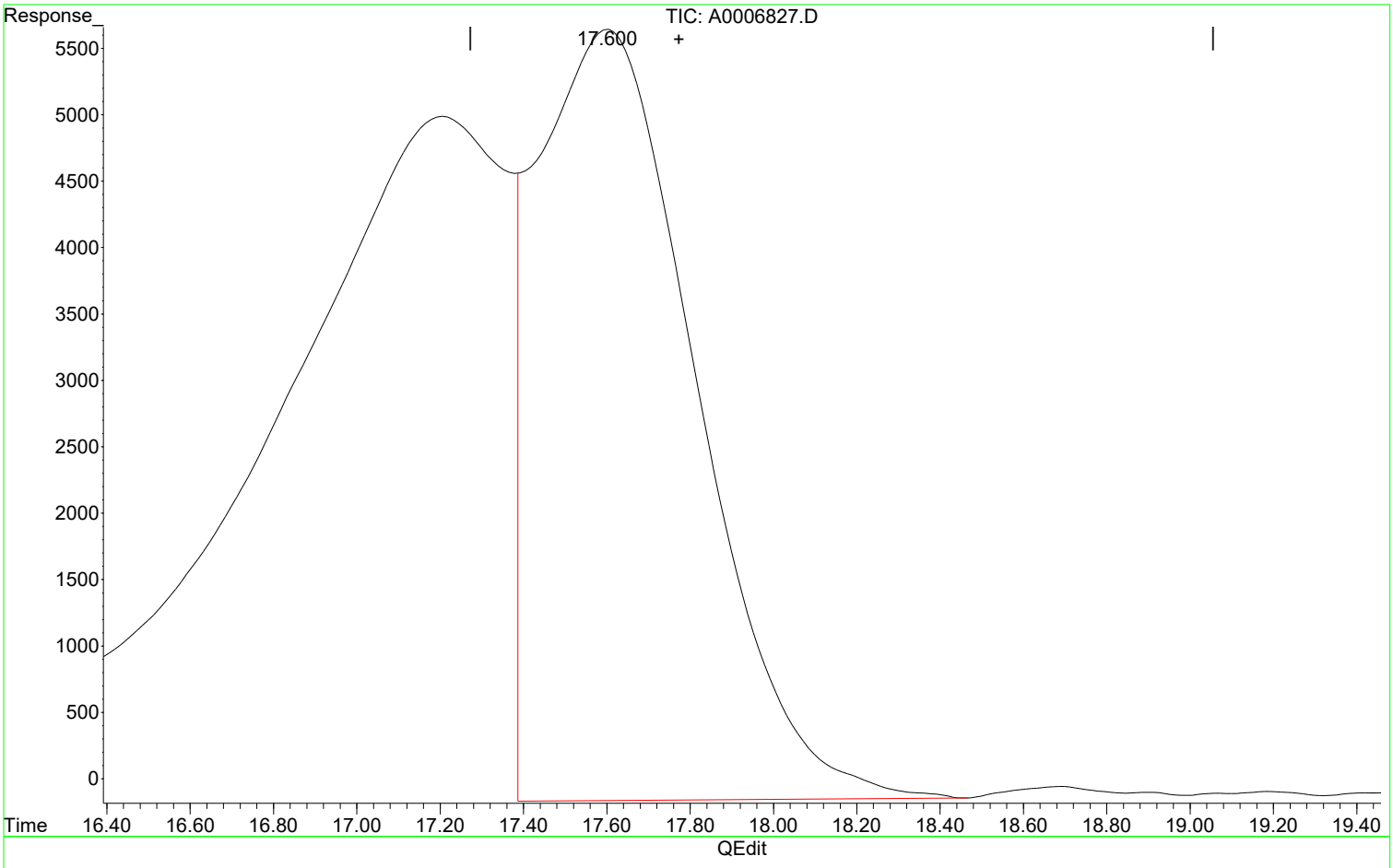
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006827.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 01:56:05
Operator : AFelser
Sample : ICV
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:13:50 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:13:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.606min 19.126 ppm

response 1564925

Manual Integration:

Before

06/07/24

(+) = Expected Retention Time

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\HPLC06\Data\060624\
Data File : A0006827.D
Signal(s) : dad1A.ch
Acq On : 07-Jun-2024, 01:56:05
Operator : AFelser
Sample : ICV
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 07 08:13:50 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA060624.M
Quant Title : organic acids
QLast Update : Fri Jun 07 08:13:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 t	Formic acid	50.000	52.126	-4.3	100	0.03
2 T	Pyruvic acid	5.000	5.998	-20.0	107	0.03
3 T	Lactic Acid	50.000	55.339	-10.7	104	0.03
4 T	Acetic Acid	50.000	51.744	-3.5	100	0.03
5 T	Propionic Acid	50.000	49.603	0.8	99	0.06
6 T	Butyric Acid	50.000	48.588	2.8	103	0.14

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

RC2400111

Analysis: Metabolic Acids Analyst: AF/KP Run Method: Metaacids
Date: 6/6/24 Instr. _HPLC06 Quant Method: MA060624
LIMS Run#:
Setup: Column: Synergi HydroRP Col.Temp: 35°C Flow: 0.6mL/min
Mobile Phase: 0.02M KH_2PO_4 in 0.1M H_3PO_4 ul Inj.: 50uL
Mobile Phase ID: 234565

Pos.	Sample	Diln.	Stds. ID	File#	OK?	Comments
1	Blank			A060816	—	
1	Blank			817	—	
2	inst Blank			818	y	
3	0.1/1 Std 1uL/1mL	100uL/1mL	2356669	819	y	
4	0.2/2 Std 2uL/1mL	100uL/1mL		820	y	
5	0.5/5 Std	5uL/1mL		821	y	
6	1/10 Std	10uL/1mL		822	y	
7	2/20 Std	20uL/1mL		823	y	
8	5/50 Std	50uL/1mL		824	y	
9	10/100 Std	100uL/1mL		825	y	
10	20/200 Std	200uL/1mL		826	y	
11	ICV	50uL/1mL	2356670	827	y	
12	CCV	50uL/1mL	2356669	828		
13	MB 1			829		
14	5 Comp LOD	1uL/1mL	2356670	830		
15	" LOQ	2uL/1mL		831		
16	But. LOD	5uL/1mL		832		
17	But. LOQ	10uL/1mL		833		
18	LCS 1	20uL/1mL	2356670	834		
19	DLCS 1	"		835		
20	R2404477-001			836		
21	-002			837		
22	-003			838		
12	CCV	50uL/1mL	2356669	839		
23	R2404477-004			840		
24	-005			841		
25	-006			842		
26	-006 MS	20uL/1mL	2356670	843		
27	-006 DMS	"	"	844		
28	MB 2			845		
29	LCS 2			846		
30	DLCS 2			847		
31	R2404738-001	20uL/1mL	2356670	848		
32	R2404738-001	"	"	849		

Primary: 2356669 exp: 9/23/24 Secondary: 2356670 exp: 12/13/24
pH Paper: Hydrion 22/922 Acid:

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007049.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 23:56:59
Operator : AFelser
Sample : ICV
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:44:43 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:44:29 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.041	4650884	52.824	ppm	
2) T	Pyruvic acid	3.361	3654169	5.519	ppm	
3) T	Lactic Acid	3.656	2732803	57.124	ppm	
4) T	Acetic Acid	3.962	3174479	54.996	ppm	m
5) T	Propionic Acid	7.236	2803014	47.773	ppm	m
6) T	Butyric Acid	17.283	3942184	51.089	ppm	m

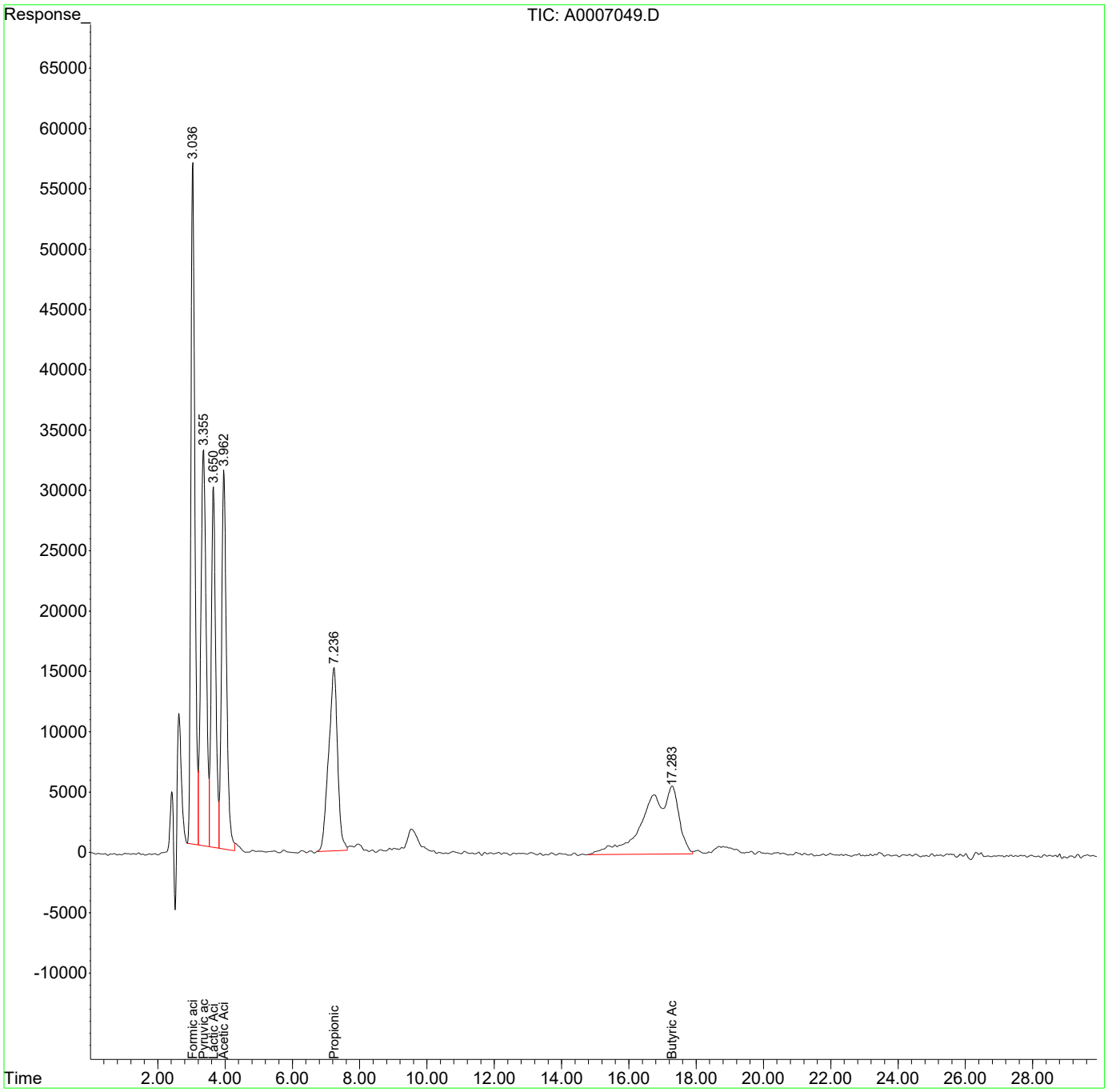
(f)=RT Delta > 1/2 Window (m)=manual int.

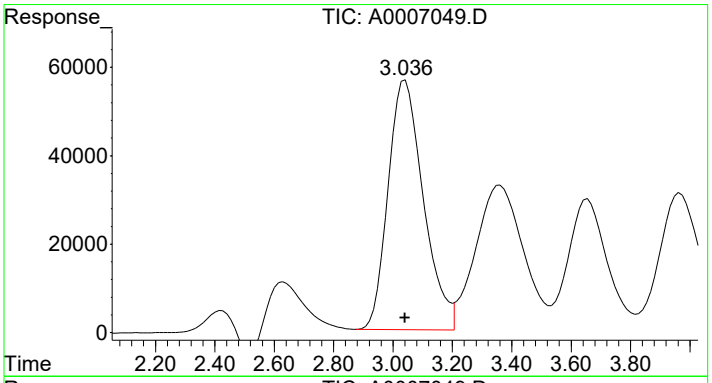
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007049.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 23:56:59
Operator : AFelser
Sample : ICV
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:44:43 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:44:29 2024
Response via : Initial Calibration
Integrator: ChemStation

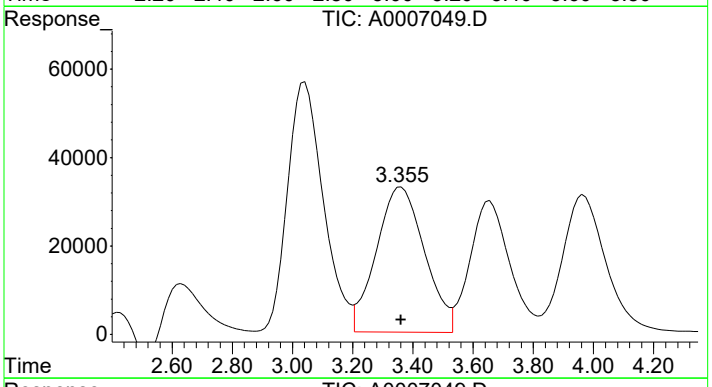
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





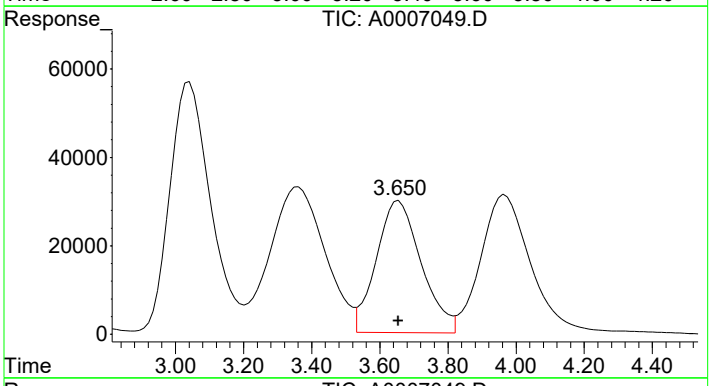
#1 Formic acid

R.T.: 3.041 min
Delta R.T.: 0.000 min
Response: 4650884
Conc: 52.82 ppm



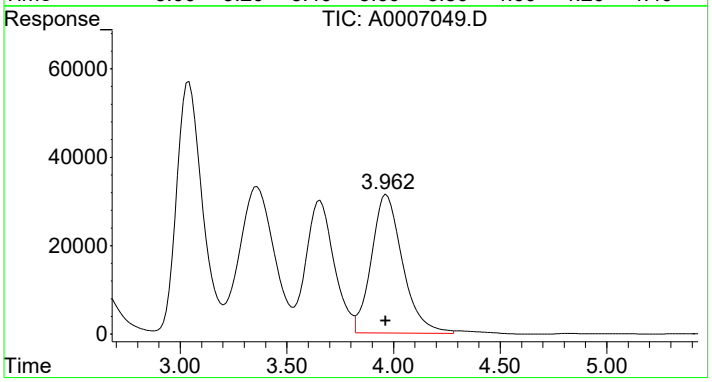
#2 Pyruvic acid

R.T.: 3.361 min
Delta R.T.: 0.000 min
Response: 3654169
Conc: 5.52 ppm



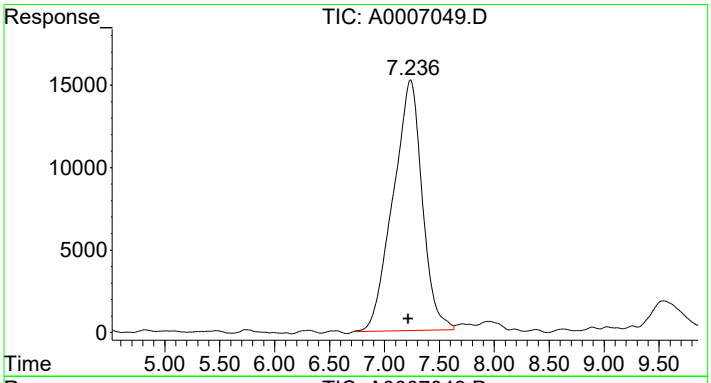
#3 Lactic Acid

R.T.: 3.656 min
Delta R.T.: 0.001 min
Response: 2732803
Conc: 57.12 ppm



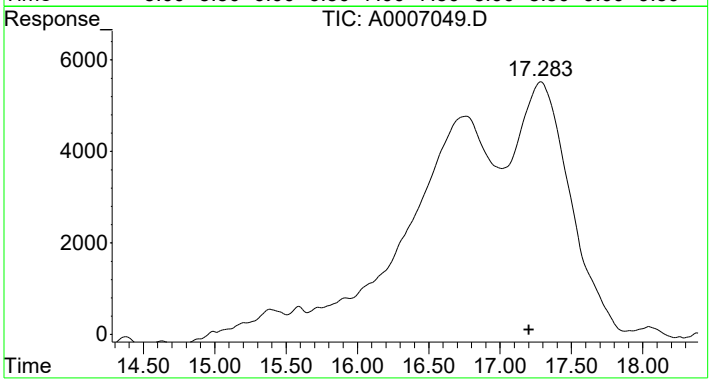
#4 Acetic Acid

R.T.: 3.962 min
Delta R.T.: 0.000 min
Response: 3174479
Conc: 55.00 ppm m



#5 Propionic Acid

R.T.: 7.236 min
Delta R.T.: 0.019 min
Response: 2803014
Conc: 47.77 ppm m



#6 Butyric Acid

R.T.: 17.283 min
Delta R.T.: 0.080 min
Response: 3942184
Conc: 51.09 ppm m

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007040.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 19:06:06
Operator : AFelser
Sample : INST BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:45:47 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:44:29 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	0.000	0	N.D.	ppm	
5) T	Propionic Acid	0.000	0	N.D.	ppm	d
6) T	Butyric Acid	0.000	0	N.D.	ppm	

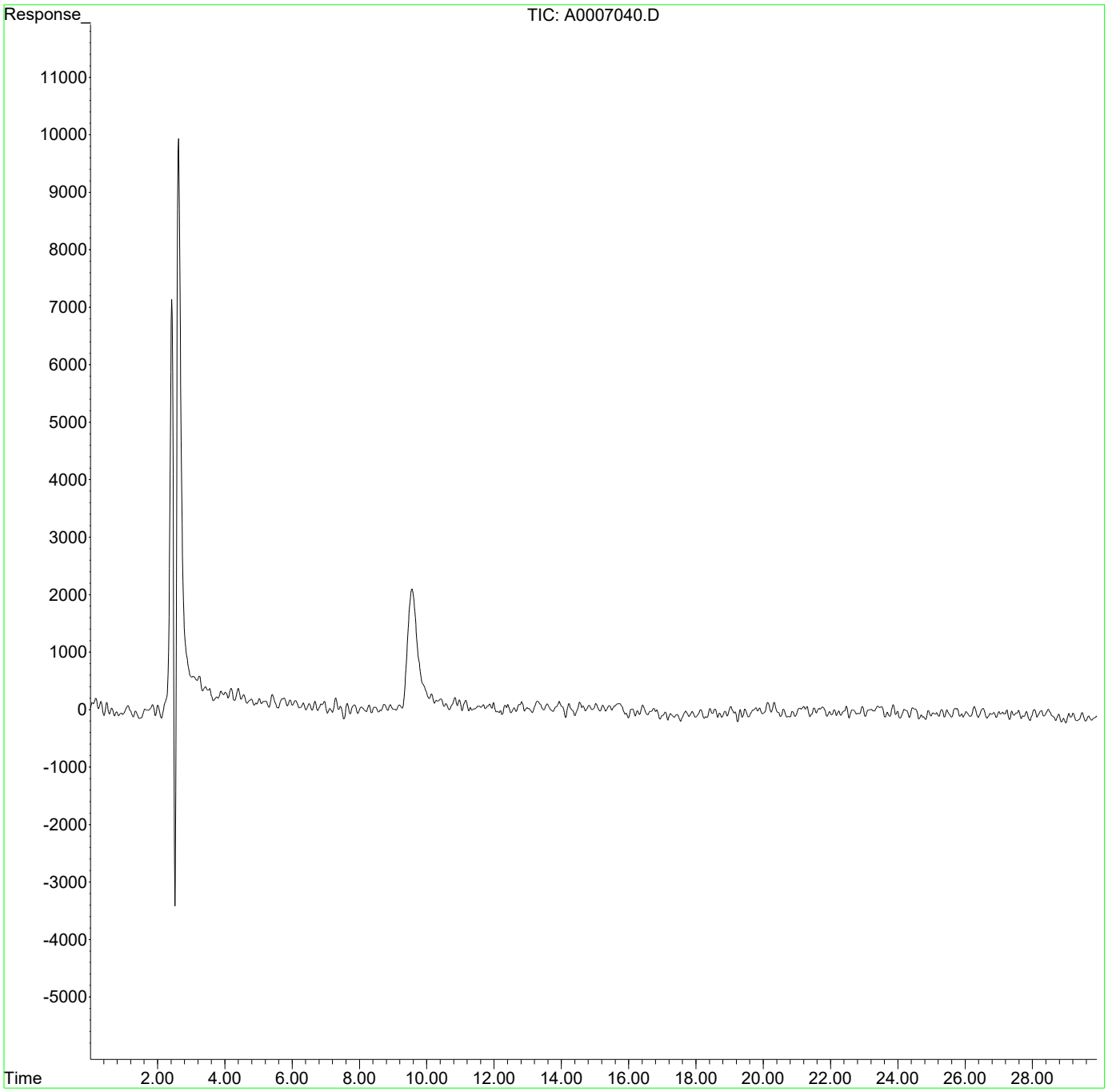
(f)=RT Delta > 1/2 Window (m)=manual int.

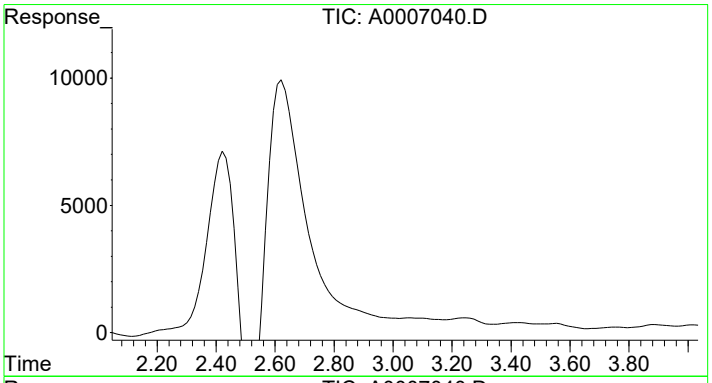
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007040.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 19:06:06
Operator : AFelser
Sample : INST BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:45:47 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:44:29 2024
Response via : Initial Calibration
Integrator: ChemStation

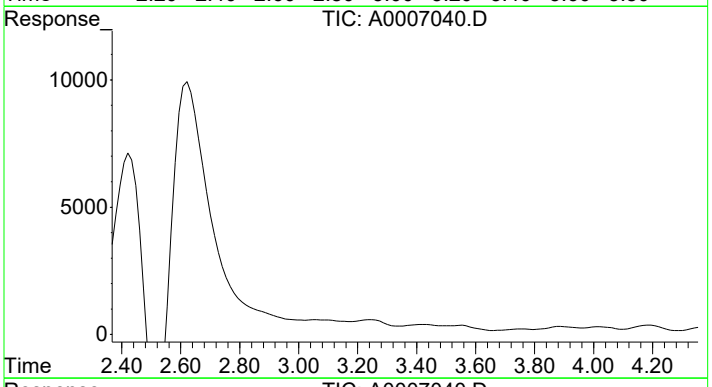
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





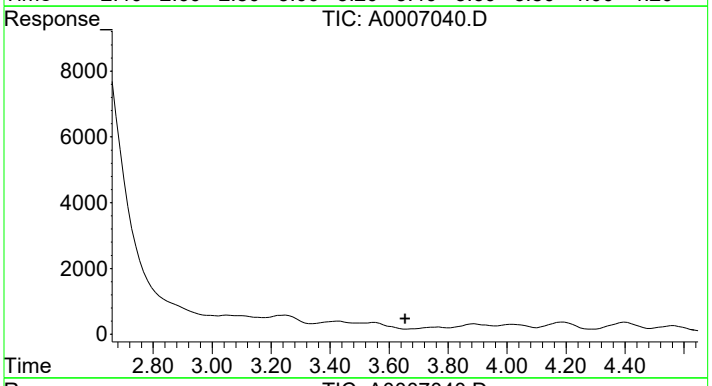
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.041 min
Response: 0
Conc: N.D.



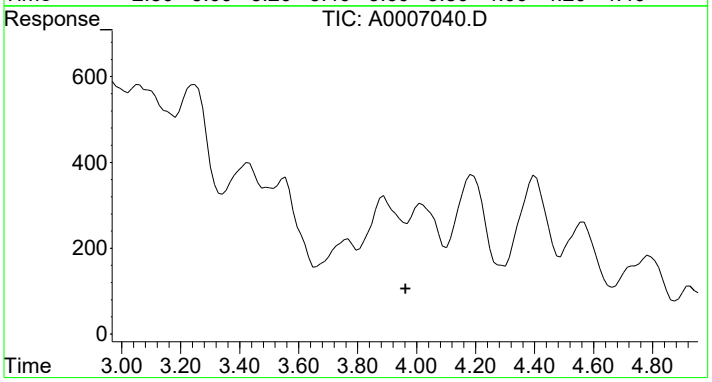
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.360 min
Response: 0
Conc: N.D.



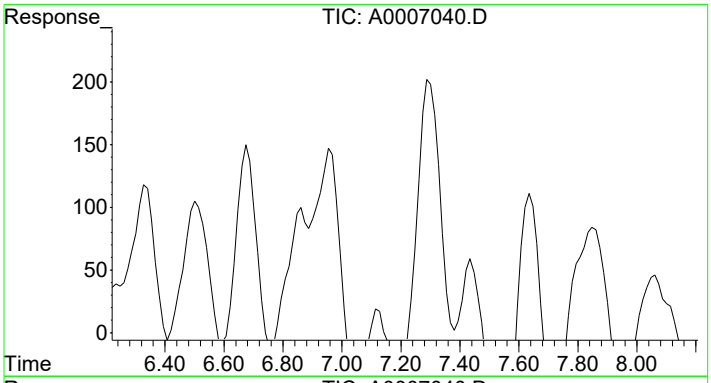
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.655 min
Response: 0
Conc: N.D.



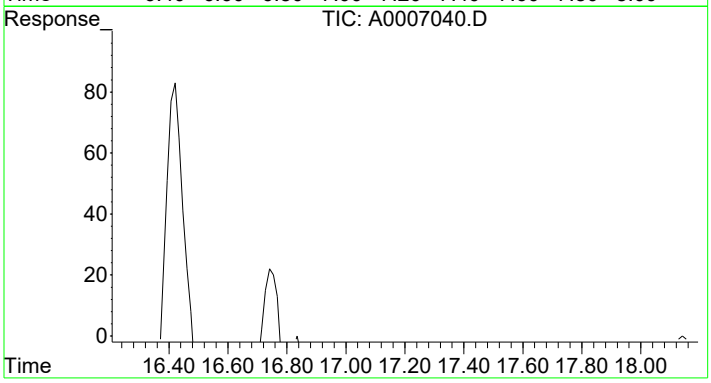
#4 Acetic Acid

R.T.: 0.000 min
Exp R.T. : 3.962 min
Response: 0
Conc: N.D.



#5 Propionic Acid

R.T.: 0.000 min
Exp R.T. : 7.217 min
Response: 0
Conc: N.D.



#6 Butyric Acid

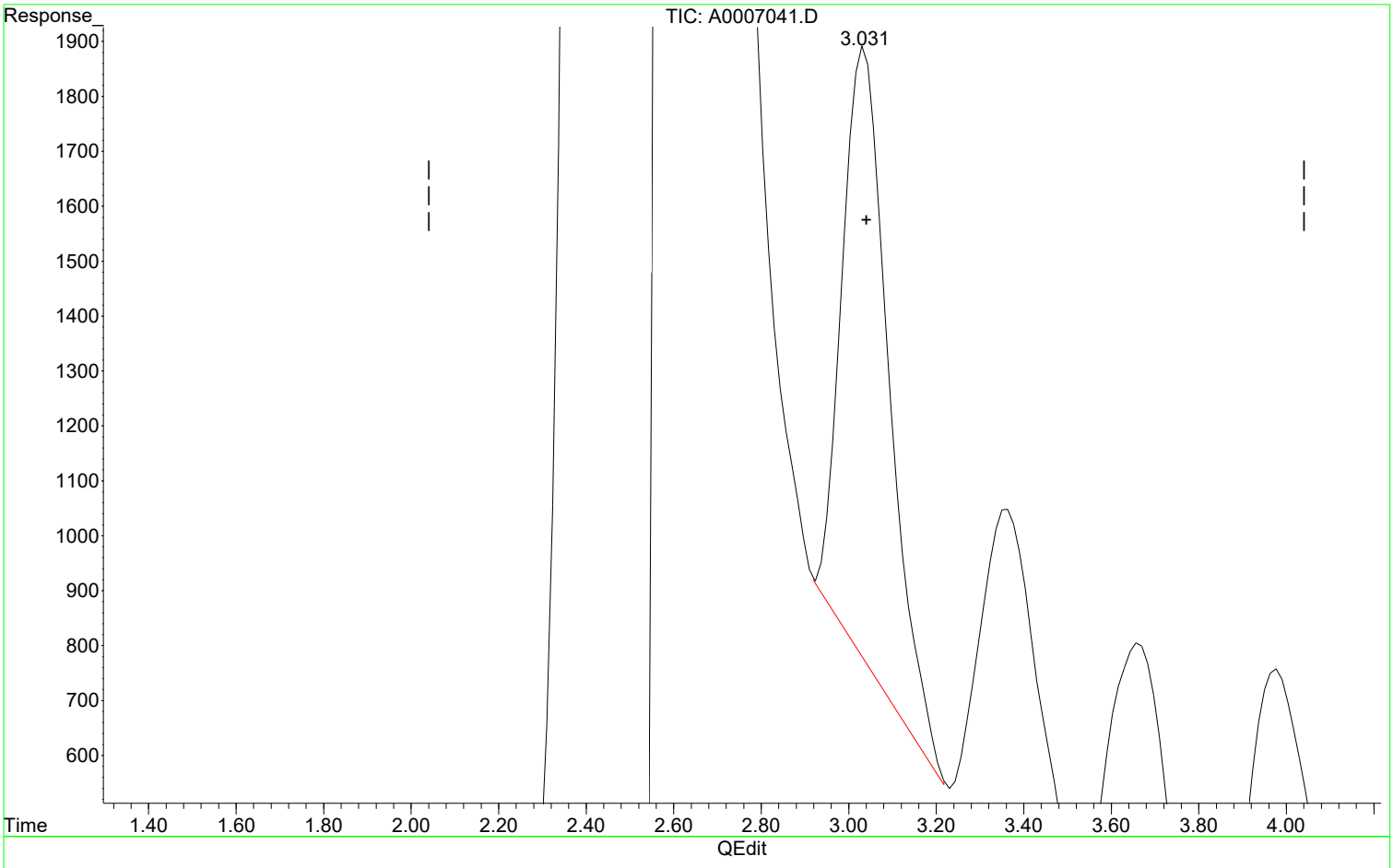
R.T.: 0.000 min
Exp R.T. : 17.203 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007041.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 19:38:27
Operator : AFelser
Sample : 0.1/1 STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:12 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)

3.031min 0.906 ppm m

response 83080

Manual Integration:

After

Poor integration.

06/19/24

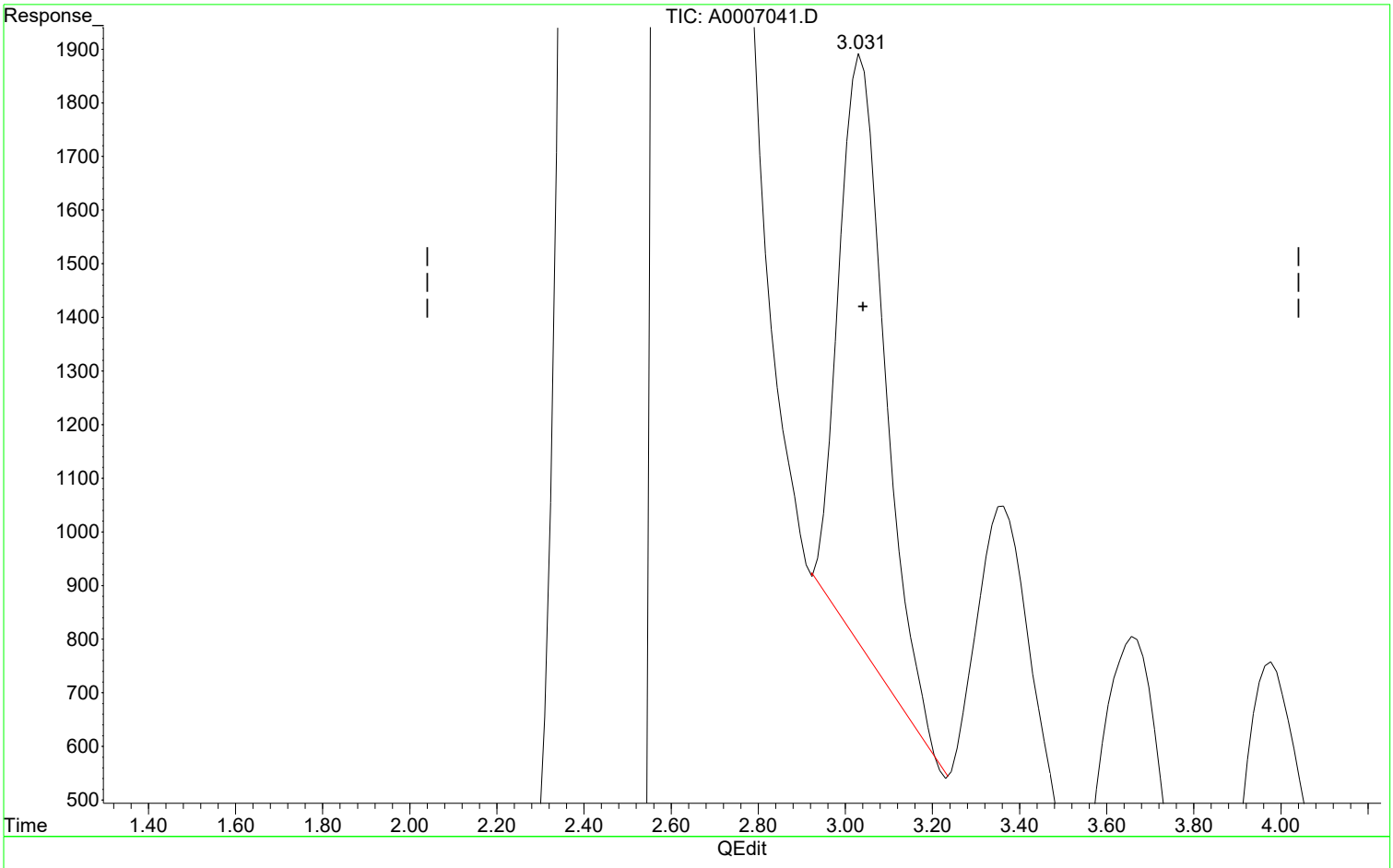
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007041.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 19:38:27
Operator : AFelser
Sample : 0.1/1 STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:12 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)

3.036min 0.891 ppm

response 81754

Manual Integration:

Before

06/19/24

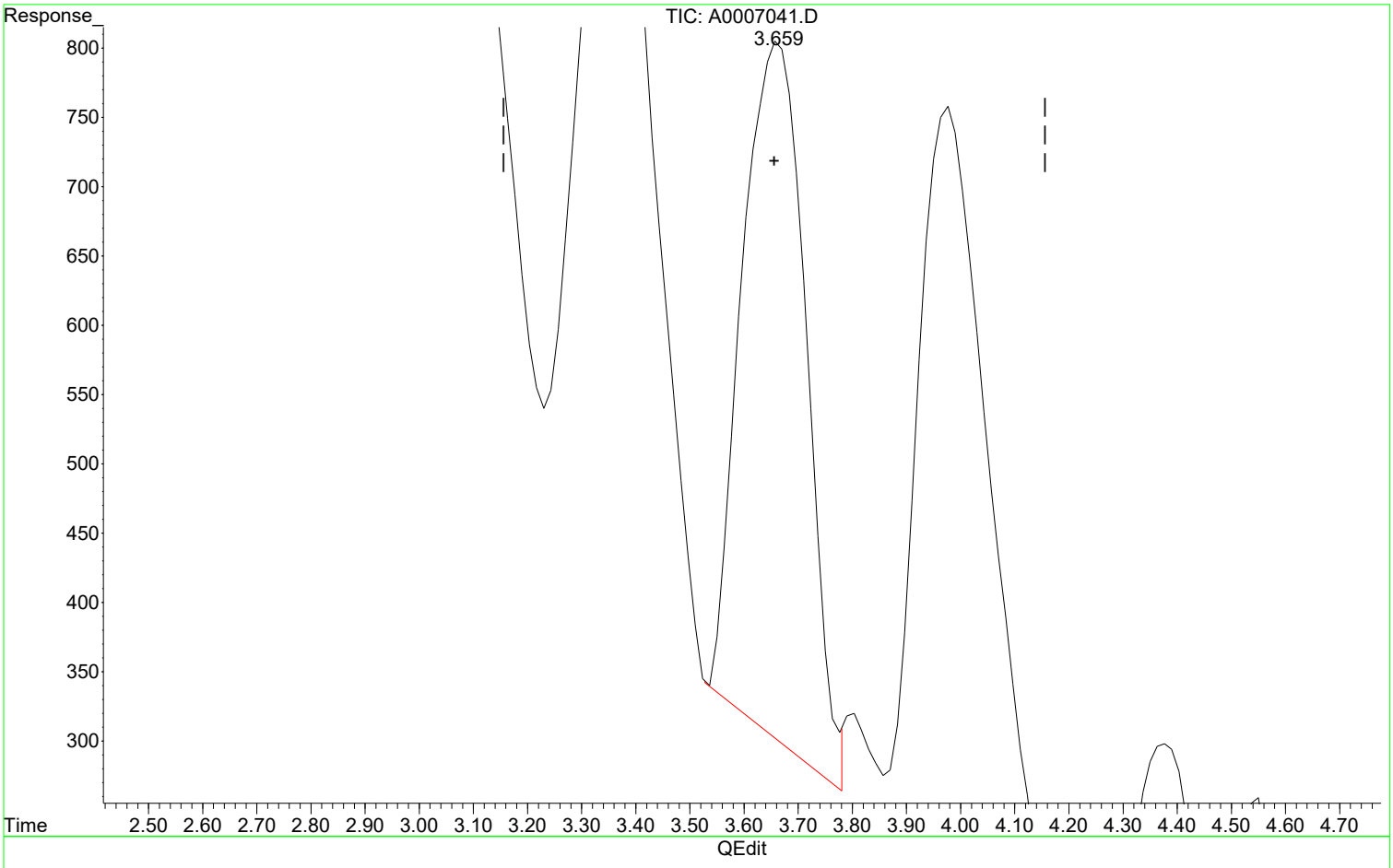
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007041.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 19:38:27
Operator : AFelser
Sample : 0.1/1 STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:12 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)

3.659min 0.808 ppm m

response 41562

Manual Integration:

After

Poor integration.

06/19/24

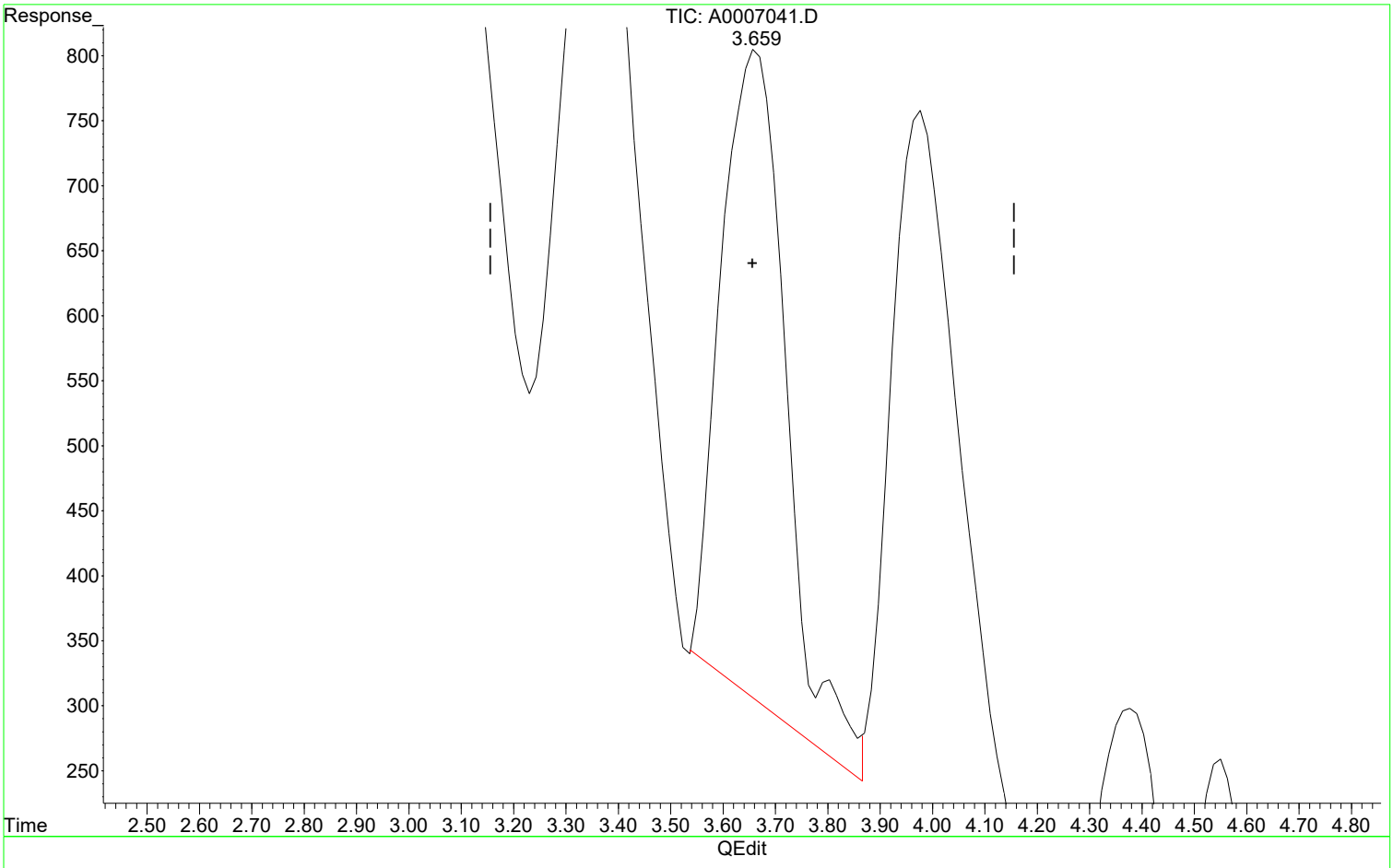
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007041.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 19:38:27
Operator : AFelser
Sample : 0.1/1 STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:12 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)

3.665min 0.838 ppm

response 43135

Manual Integration:

Before

06/19/24

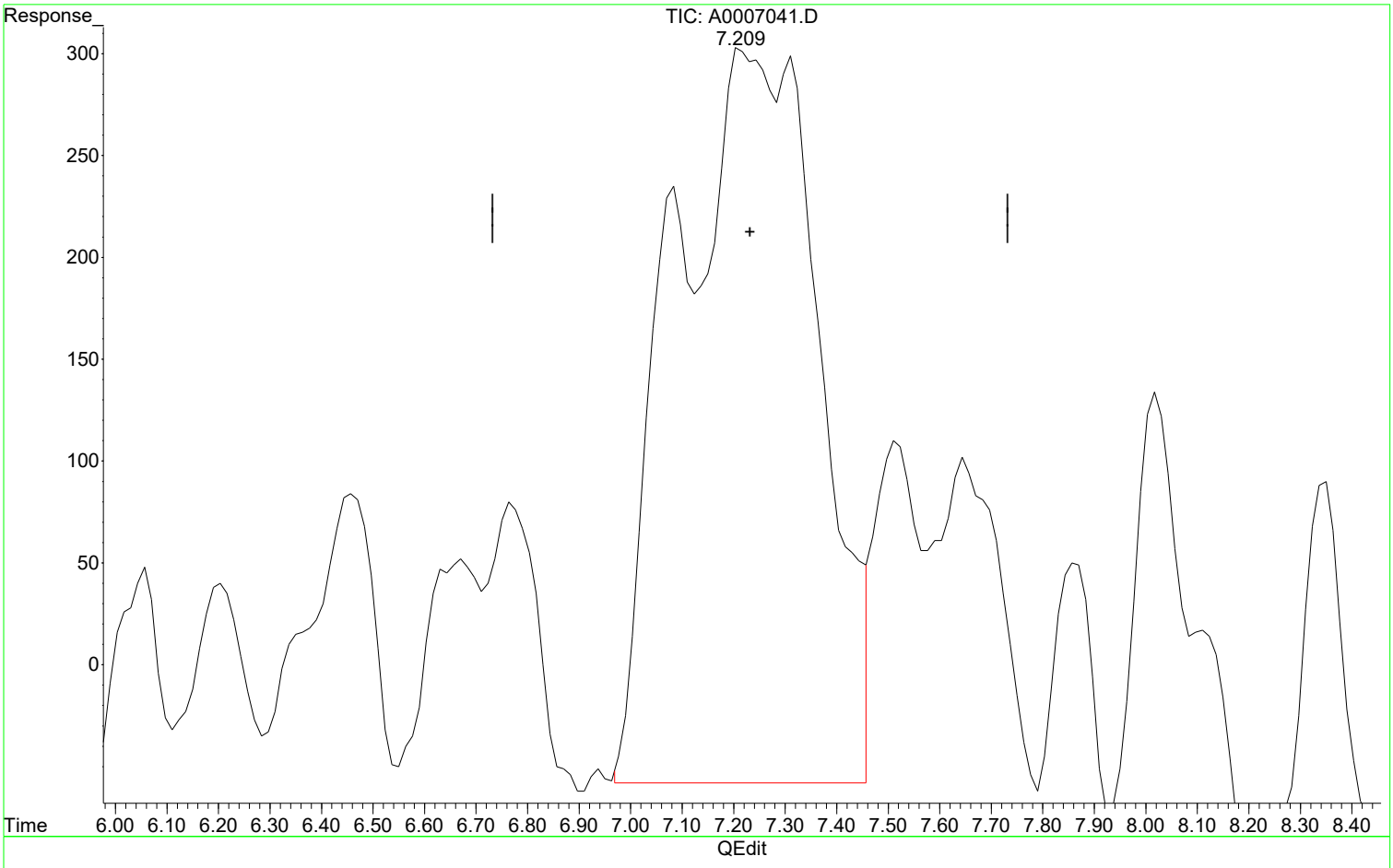
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007041.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 19:38:27
Operator : AFelser
Sample : 0.1/1 STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:12 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.209min 1.249 ppm m

response 71177

Manual Integration:

After

Poor integration.

06/19/24

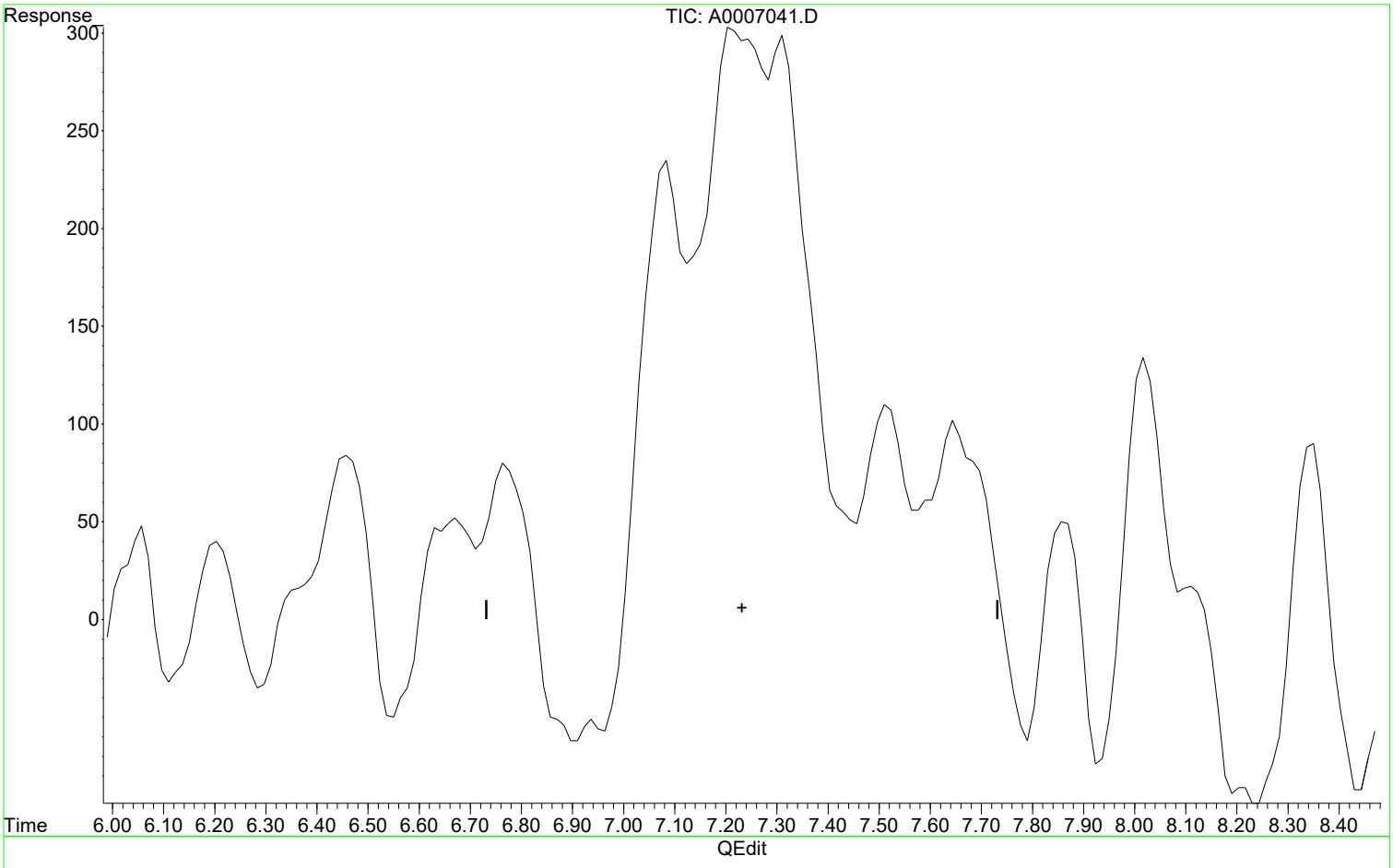
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007041.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 19:38:27
Operator : AFelser
Sample : 0.1/1 STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:12 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

0.000min 0.000 ppm d

response 0

Manual Integration:

Before

06/19/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007041.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 19:38:27
Operator : AFelser
Sample : 0.1/1 STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:12 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.031	83080	0.906	ppm	m
2) T	Pyruvic acid	3.363	51960	0.071	ppm	
3) T	Lactic Acid	3.659	41562	0.808	ppm	m
4) T	Acetic Acid	3.979	52447	0.873	ppm	
5) T	Propionic Acid	7.209	71177	1.249	ppm	m
6) T	Butyric Acid	0.000	0	N.D.	ppm	d

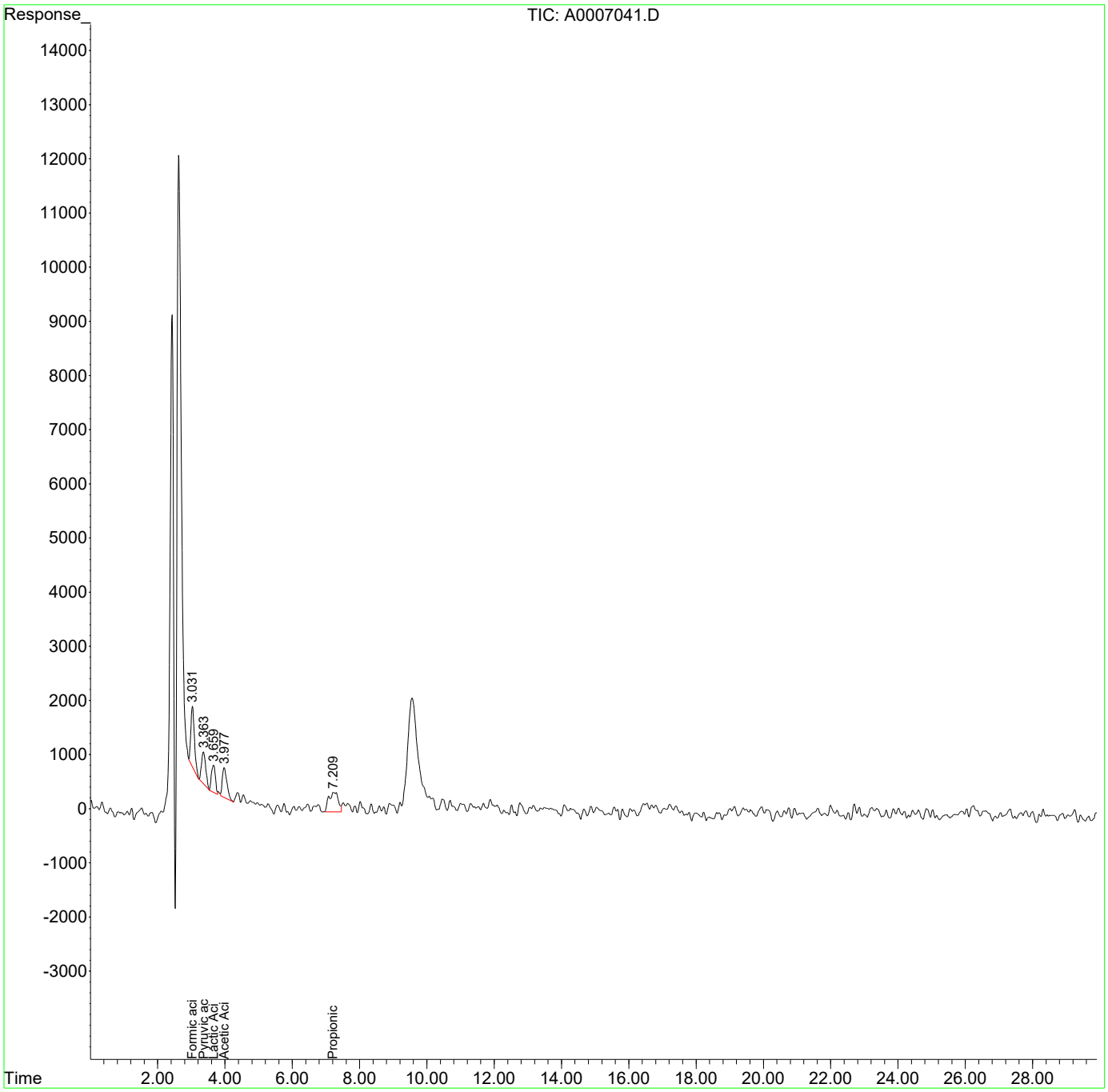
(f)=RT Delta > 1/2 Window (m)=manual int.

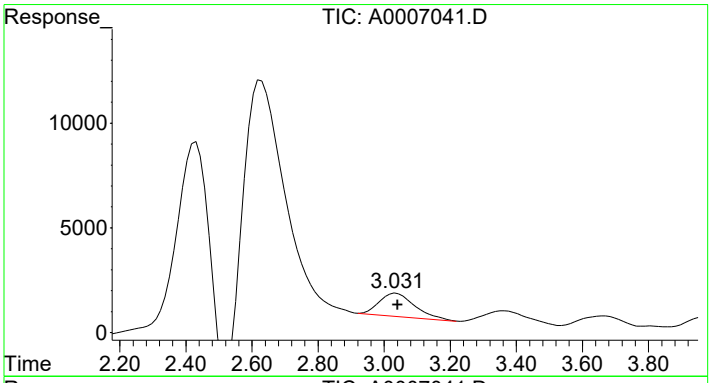
1st AF 06/19/24
2nd BA 06/19/24

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007041.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 19:38:27
Operator : AFelser
Sample : 0.1/1 STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:12 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

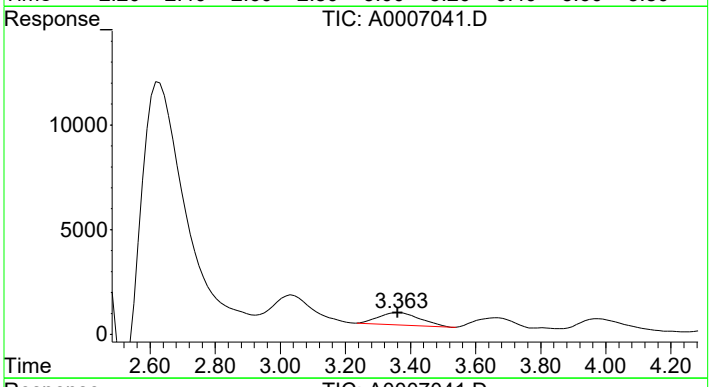
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





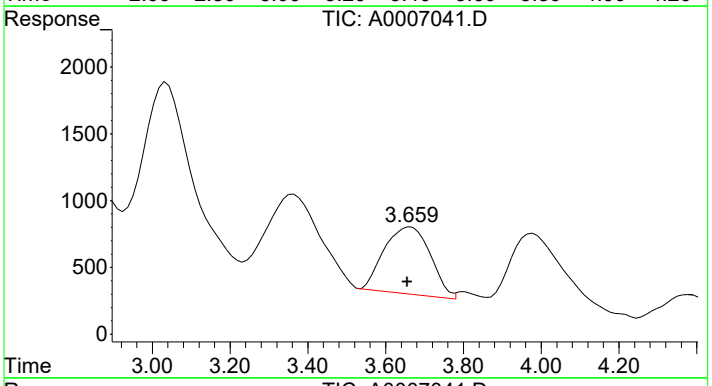
#1 Formic acid

R.T.: 3.031 min
Delta R.T.: -0.010 min
Response: 83080
Conc: 0.91 ppm m



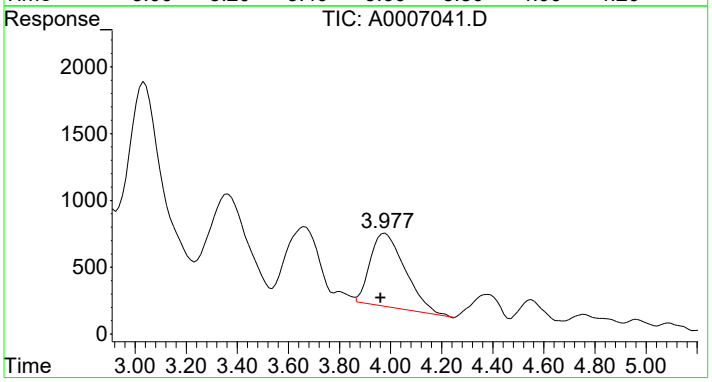
#2 Pyruvic acid

R.T.: 3.363 min
Delta R.T.: 0.002 min
Response: 51960
Conc: 0.07 ppm



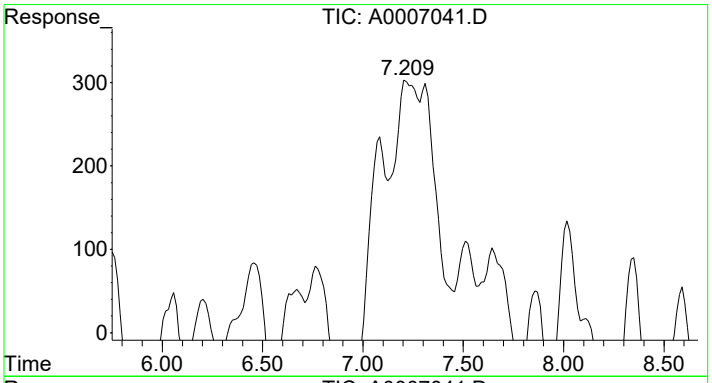
#3 Lactic Acid

R.T.: 3.659 min
Delta R.T.: 0.003 min
Response: 41562
Conc: 0.81 ppm m



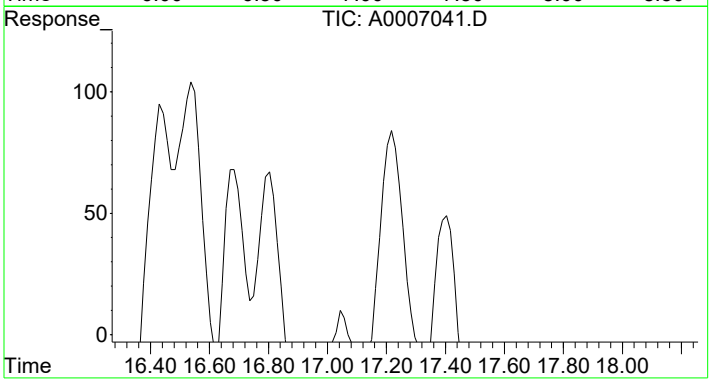
#4 Acetic Acid

R.T.: 3.979 min
Delta R.T.: 0.018 min
Response: 52447
Conc: 0.87 ppm



#5 Propionic Acid

R.T.: 7.209 min
Delta R.T.: -0.023 min
Response: 71177
Conc: 1.25 ppm m



#6 Butyric Acid

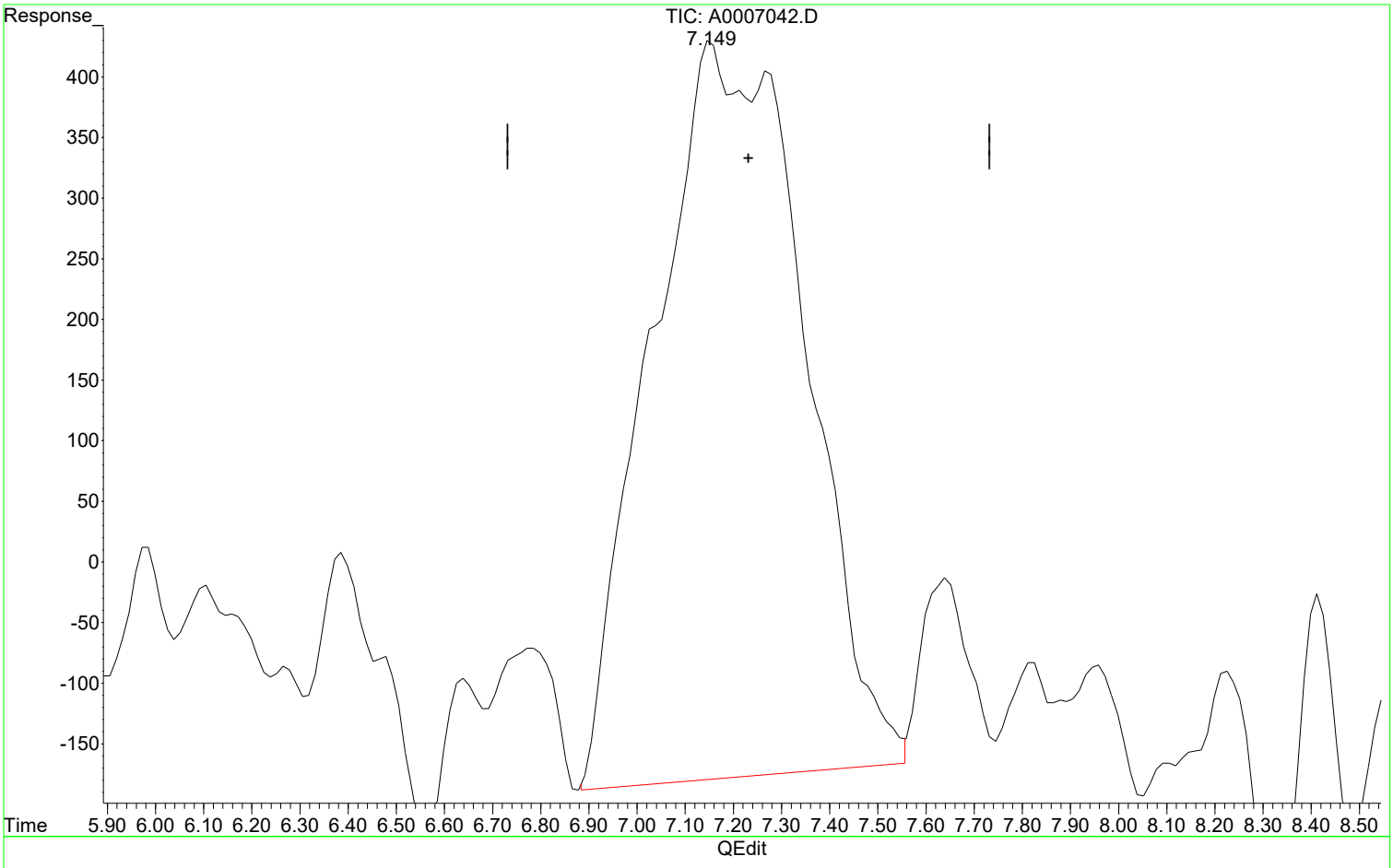
R.T.: 0.000 min
Exp R.T. : 17.269 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007042.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 20:10:44
Operator : AFelser
Sample : 0.2/2 STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:14 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.149min 2.341 ppm m

response 133405

Manual Integration:

After

Poor integration.

06/19/24

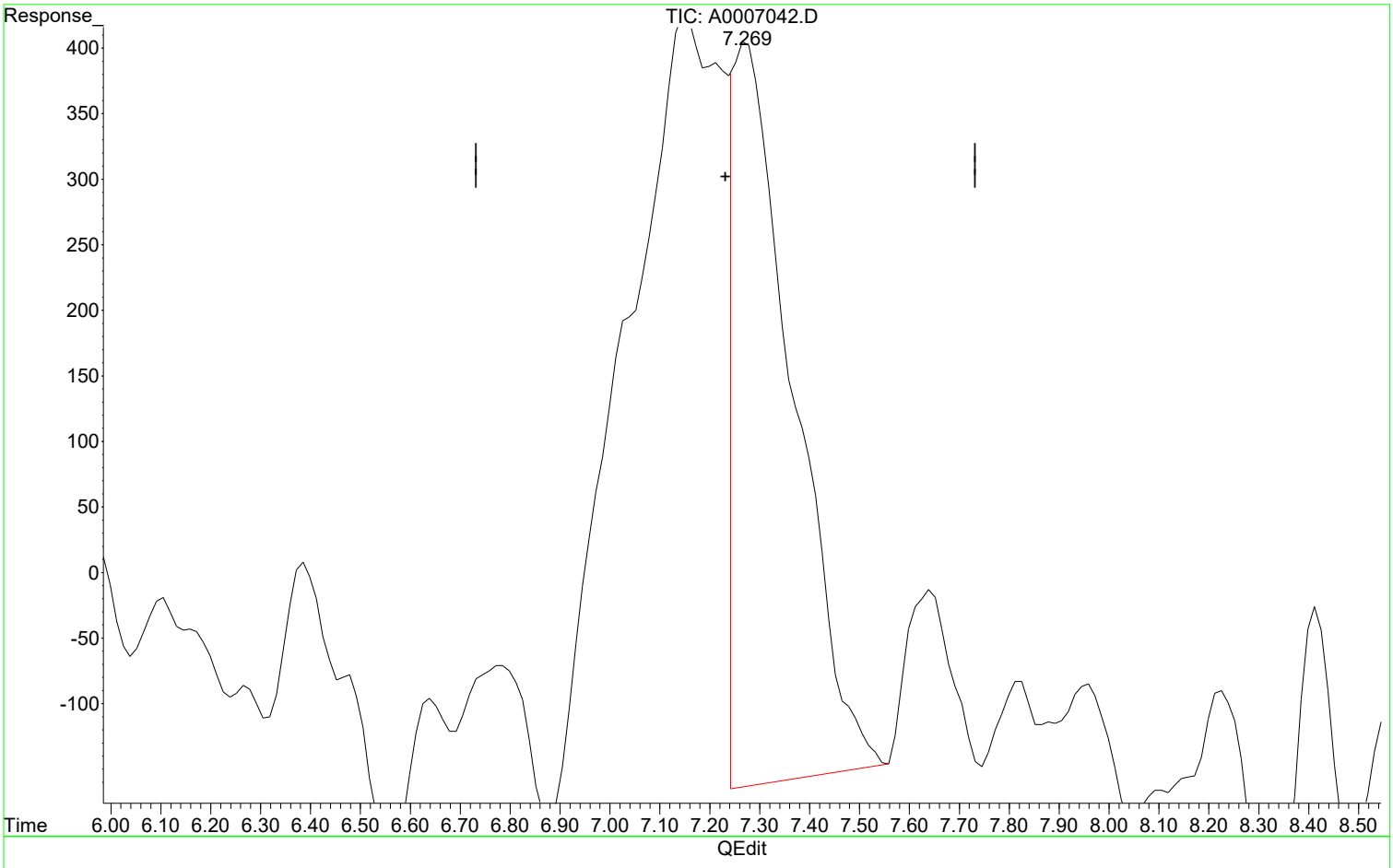
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007042.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 20:10:44
Operator : AFelser
Sample : 0.2/2 STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:14 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.275min 0.862 ppm

response 49153

Manual Integration:

Before

06/19/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007042.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 20:10:44
Operator : AFelser
Sample : 0.2/2 STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:14 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.041	167783	1.829	ppm	
2) T	Pyruvic acid	3.365	113311	0.156	ppm	
3) T	Lactic Acid	3.649	85554	1.662	ppm	
4) T	Acetic Acid	3.963	113456	1.888	ppm	
5) T	Propionic Acid	7.149	133405	2.341	ppm	m
6) T	Butyric Acid	0.000	0	N.D.	ppm	d

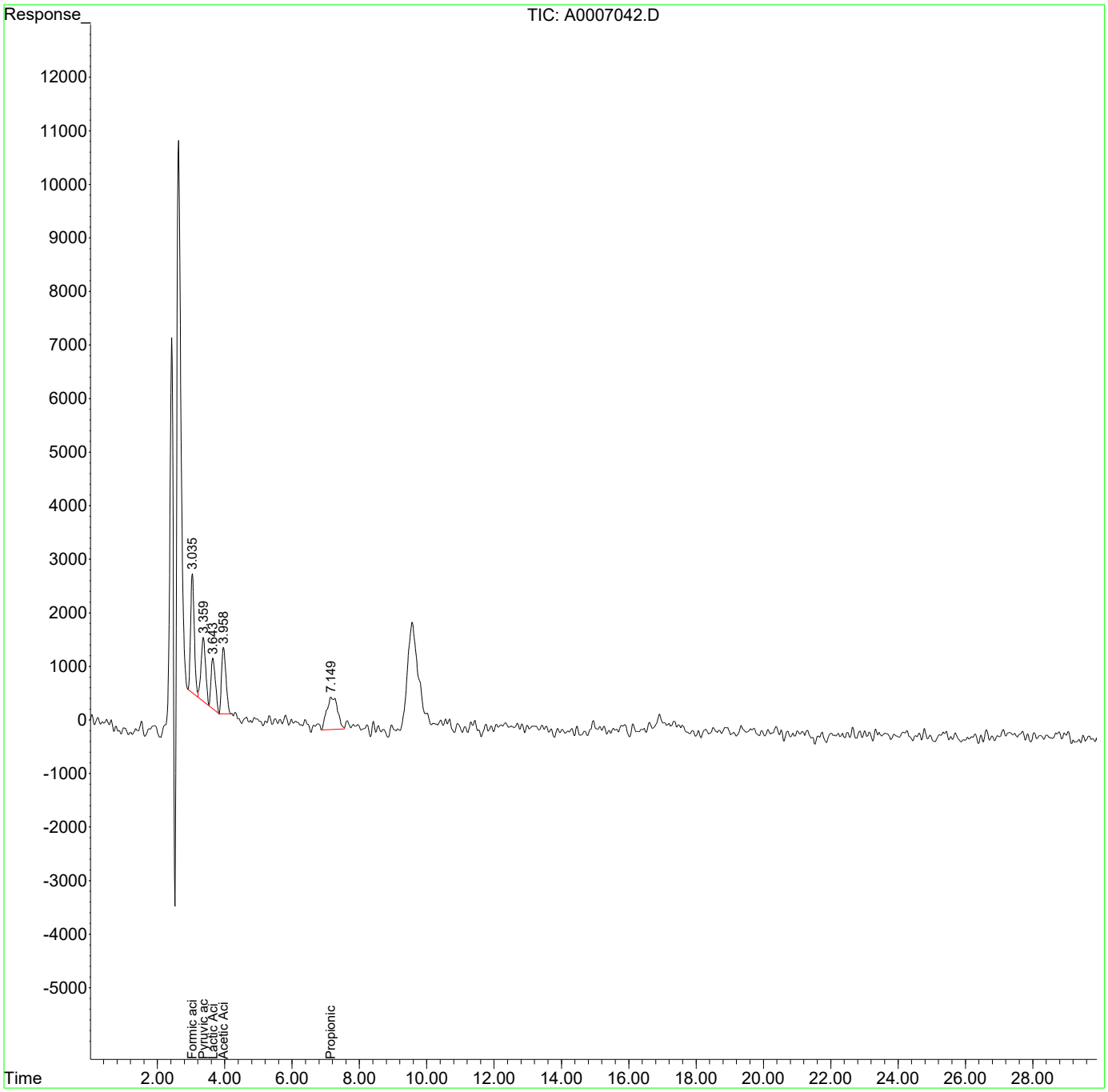
(f)=RT Delta > 1/2 Window (m)=manual int.

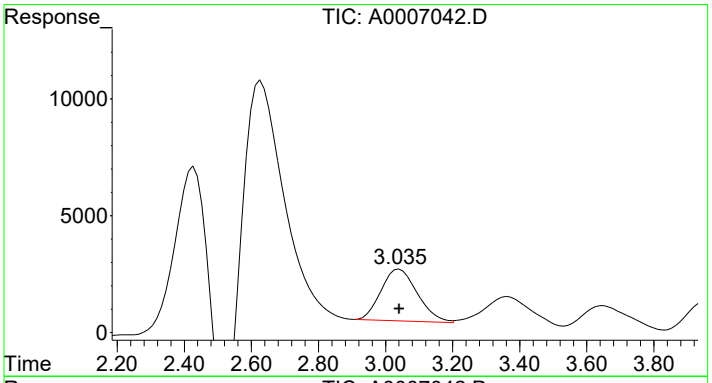
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007042.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 20:10:44
Operator : AFelser
Sample : 0.2/2 STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:14 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

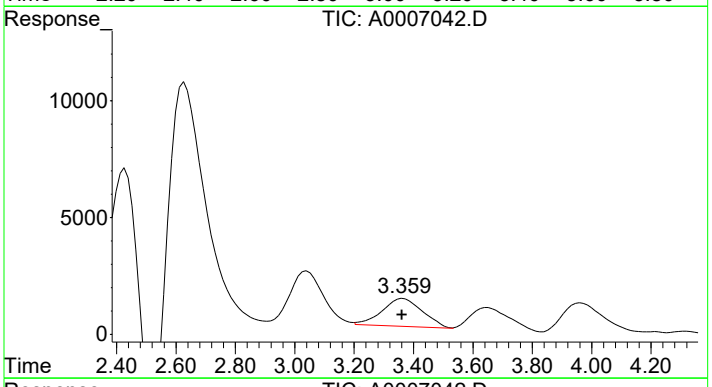
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





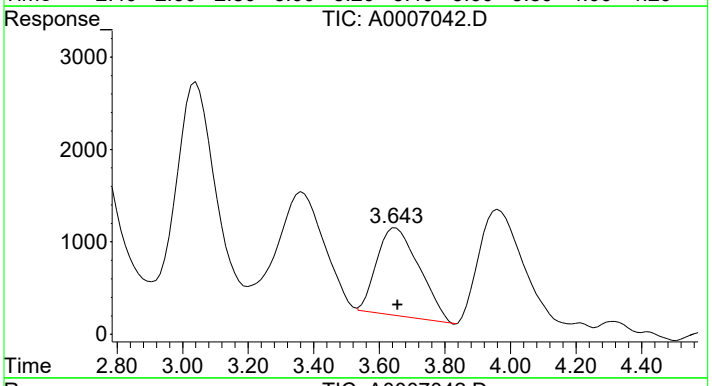
#1 Formic acid

R.T.: 3.041 min
Delta R.T.: 0.000 min
Response: 167783
Conc: 1.83 ppm



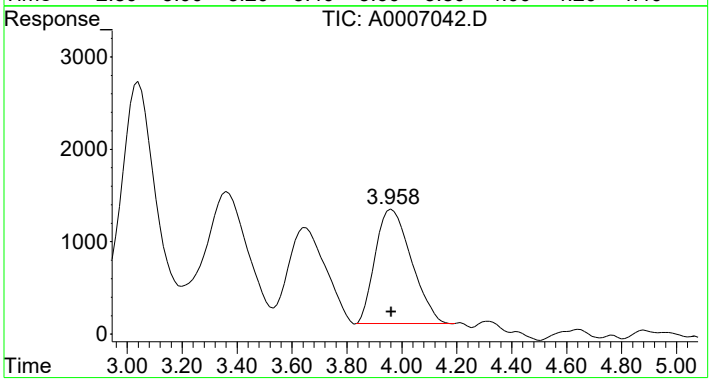
#2 Pyruvic acid

R.T.: 3.365 min
Delta R.T.: 0.004 min
Response: 113311
Conc: 0.16 ppm



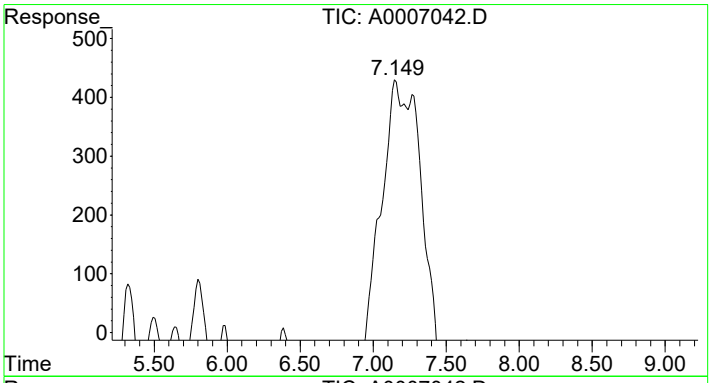
#3 Lactic Acid

R.T.: 3.649 min
Delta R.T.: -0.007 min
Response: 85554
Conc: 1.66 ppm



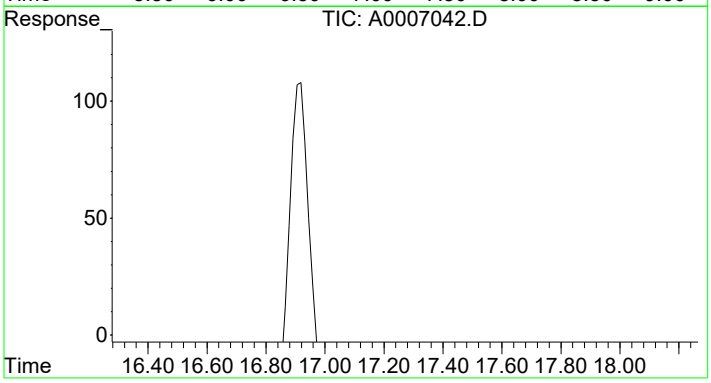
#4 Acetic Acid

R.T.: 3.963 min
Delta R.T.: 0.002 min
Response: 113456
Conc: 1.89 ppm



#5 Propionic Acid

R.T.: 7.149 min
Delta R.T.: -0.083 min
Response: 133405
Conc: 2.34 ppm m



#6 Butyric Acid

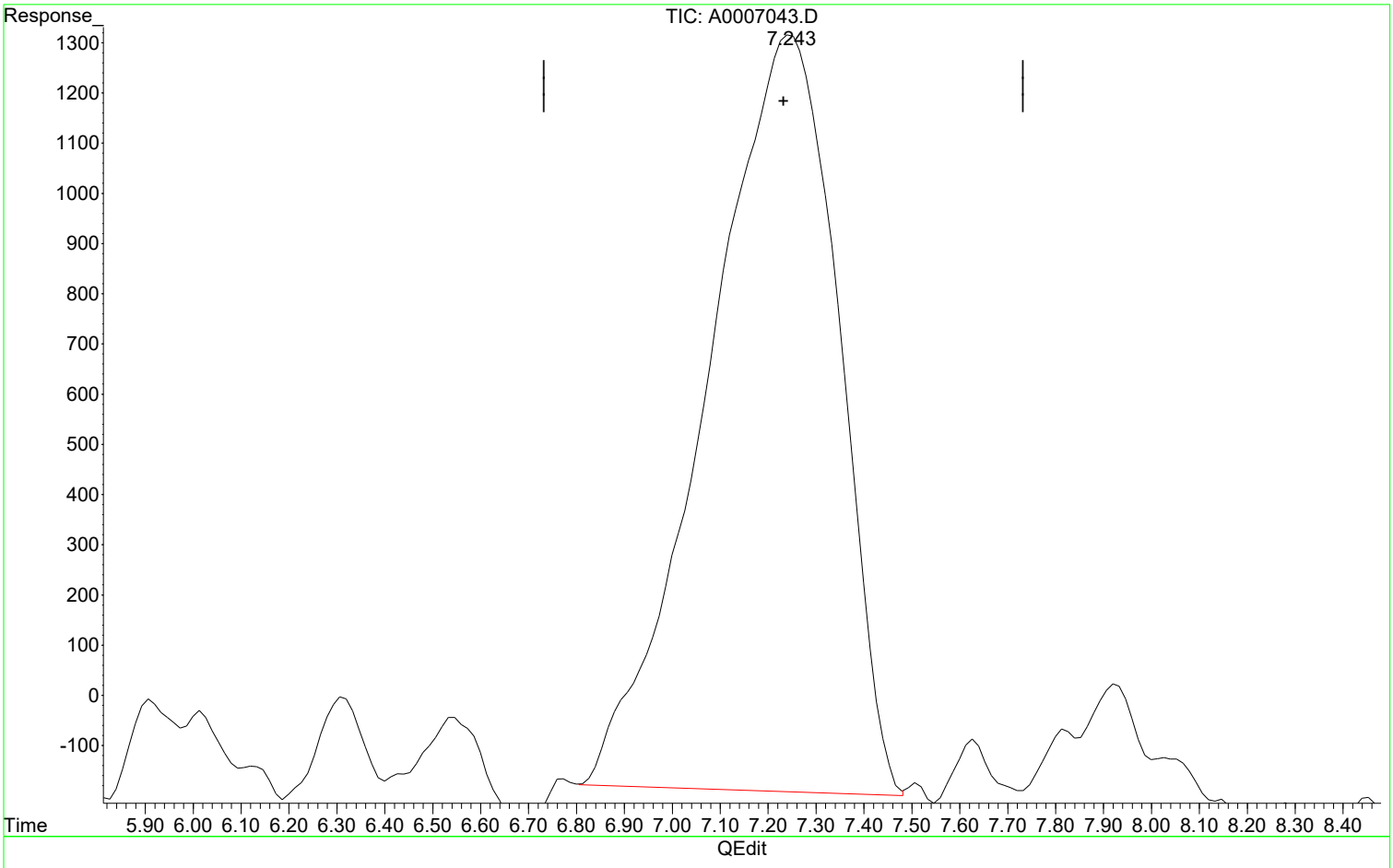
R.T.: 0.000 min
Exp R.T. : 17.269 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007043.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 20:43:03
Operator : AFelser
Sample : 0.5/5 STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:16 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.243min 5.006 ppm m

response 285275

Manual Integration:

After

Poor integration.

06/19/24

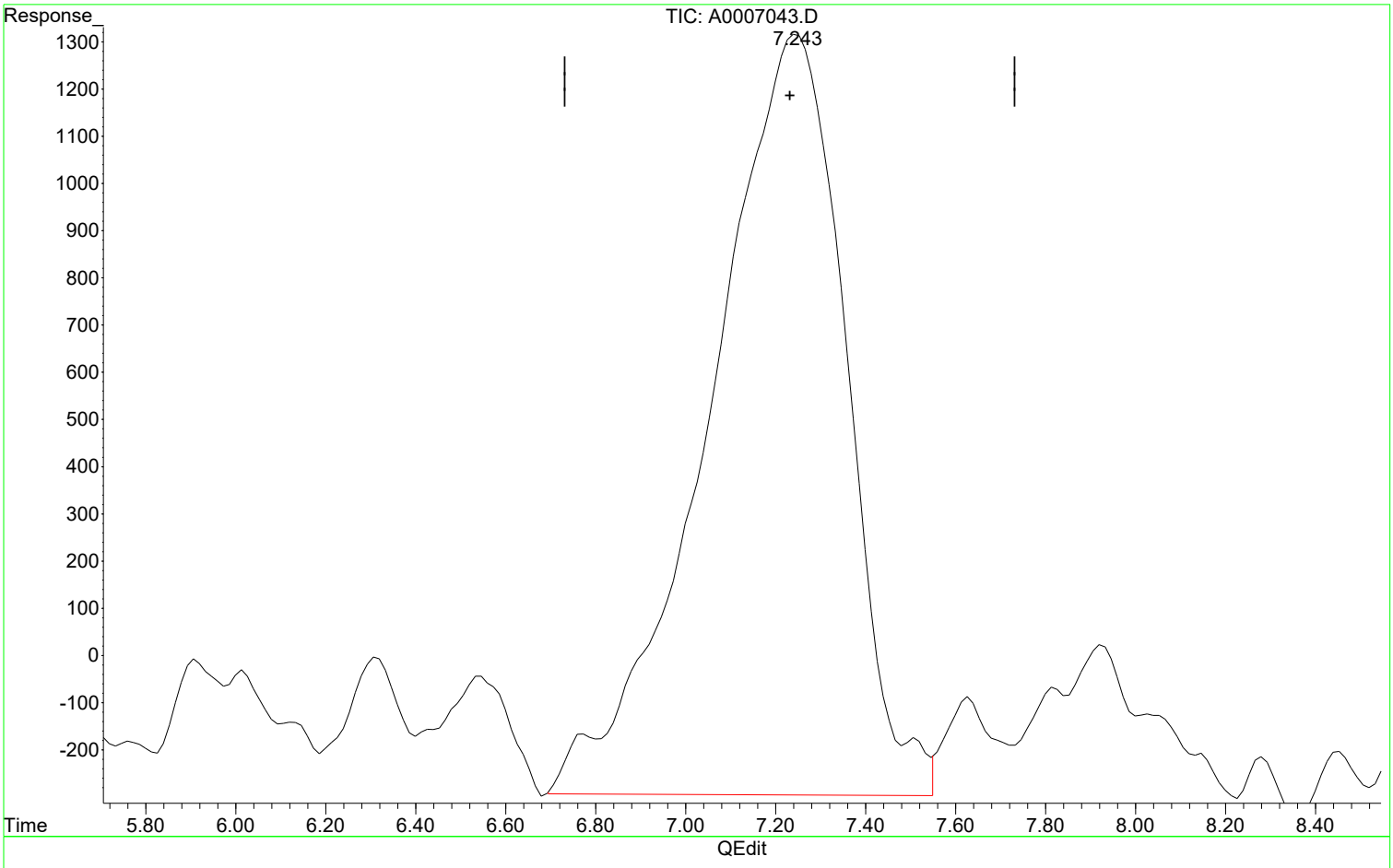
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007043.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 20:43:03
Operator : AFelser
Sample : 0.5/5 STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:16 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.248min 5.934 ppm

response 338192

Manual Integration:

Before

06/19/24

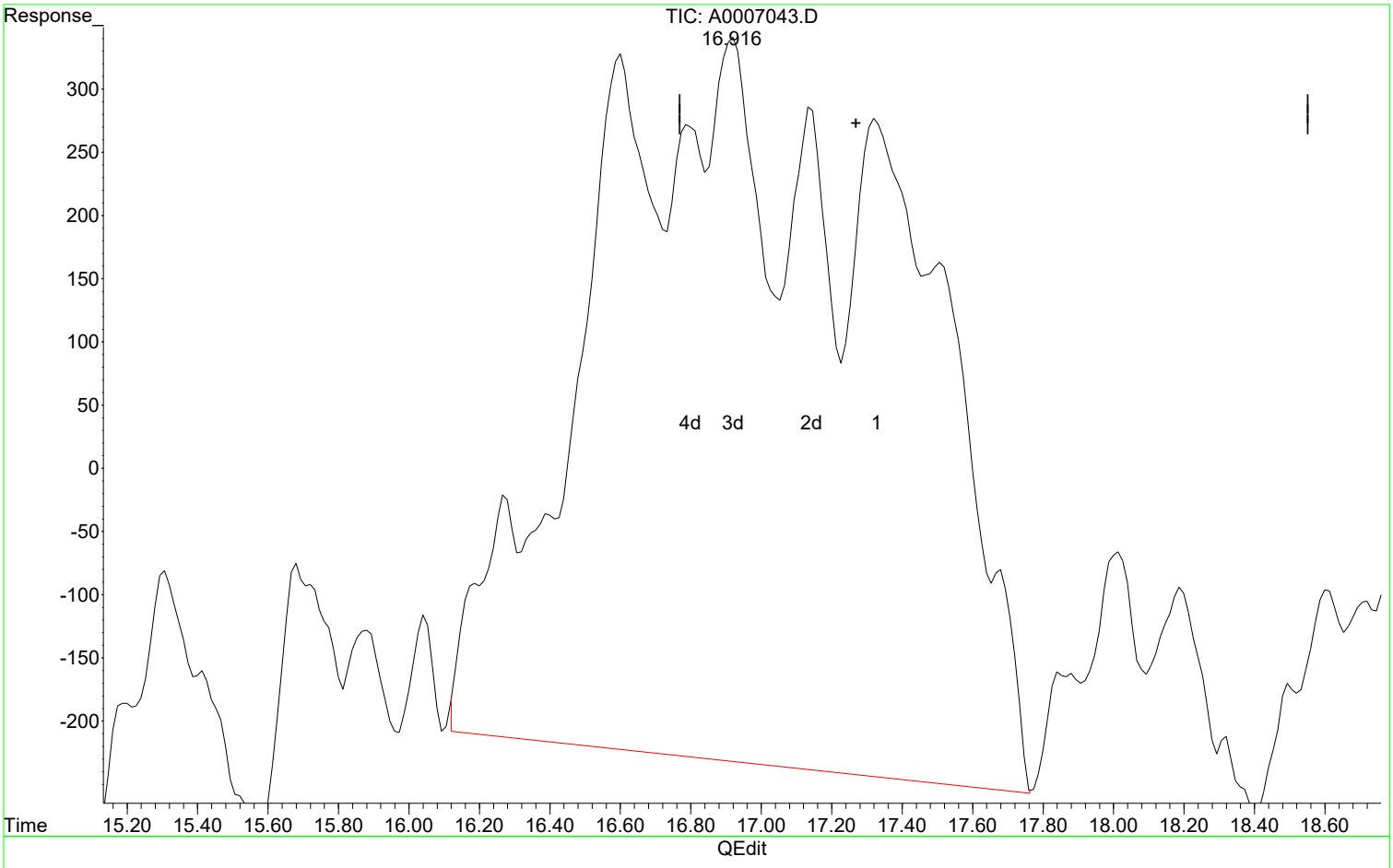
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007043.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 20:43:03
Operator : AFelser
Sample : 0.5/5 STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:16 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

16.916min 4.633 ppm m

response 347127

Manual Integration:

After

Poor integration.

06/19/24

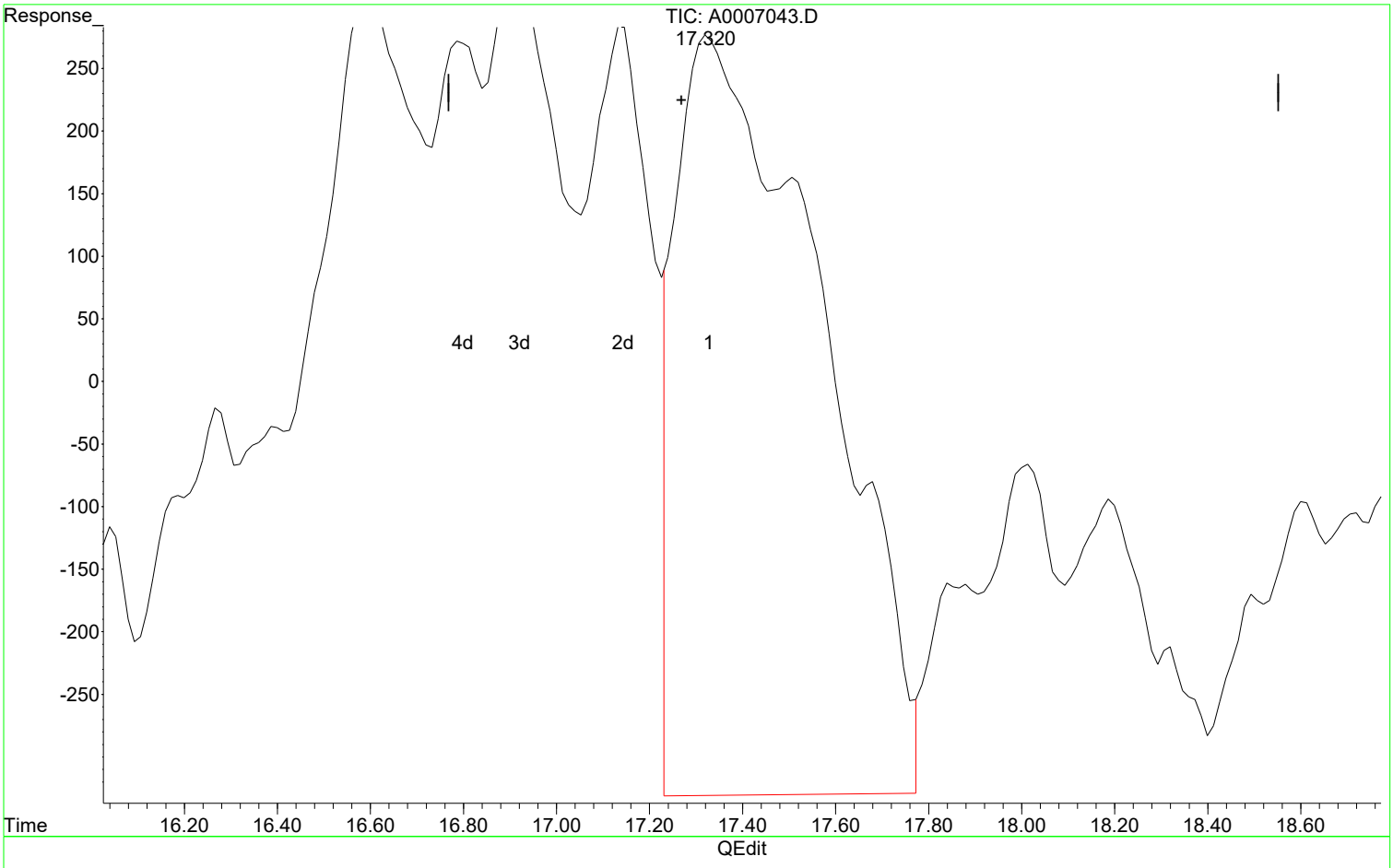
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007043.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 20:43:03
Operator : AFelser
Sample : 0.5/5 STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:16 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.327min 1.792 ppm

response 134301

Manual Integration:

Before

06/19/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007043.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 20:43:03
Operator : AFelser
Sample : 0.5/5 STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:16 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.042	434736	4.739	ppm	
2) T	Pyruvic acid	3.361	326089	0.448	ppm	
3) T	Lactic Acid	3.655	236037	4.586	ppm	
4) T	Acetic Acid	3.967	285414	4.748	ppm	
5) T	Propionic Acid	7.243	285275	5.006	ppm	m
6) T	Butyric Acid	16.916	347127	4.633	ppm	m

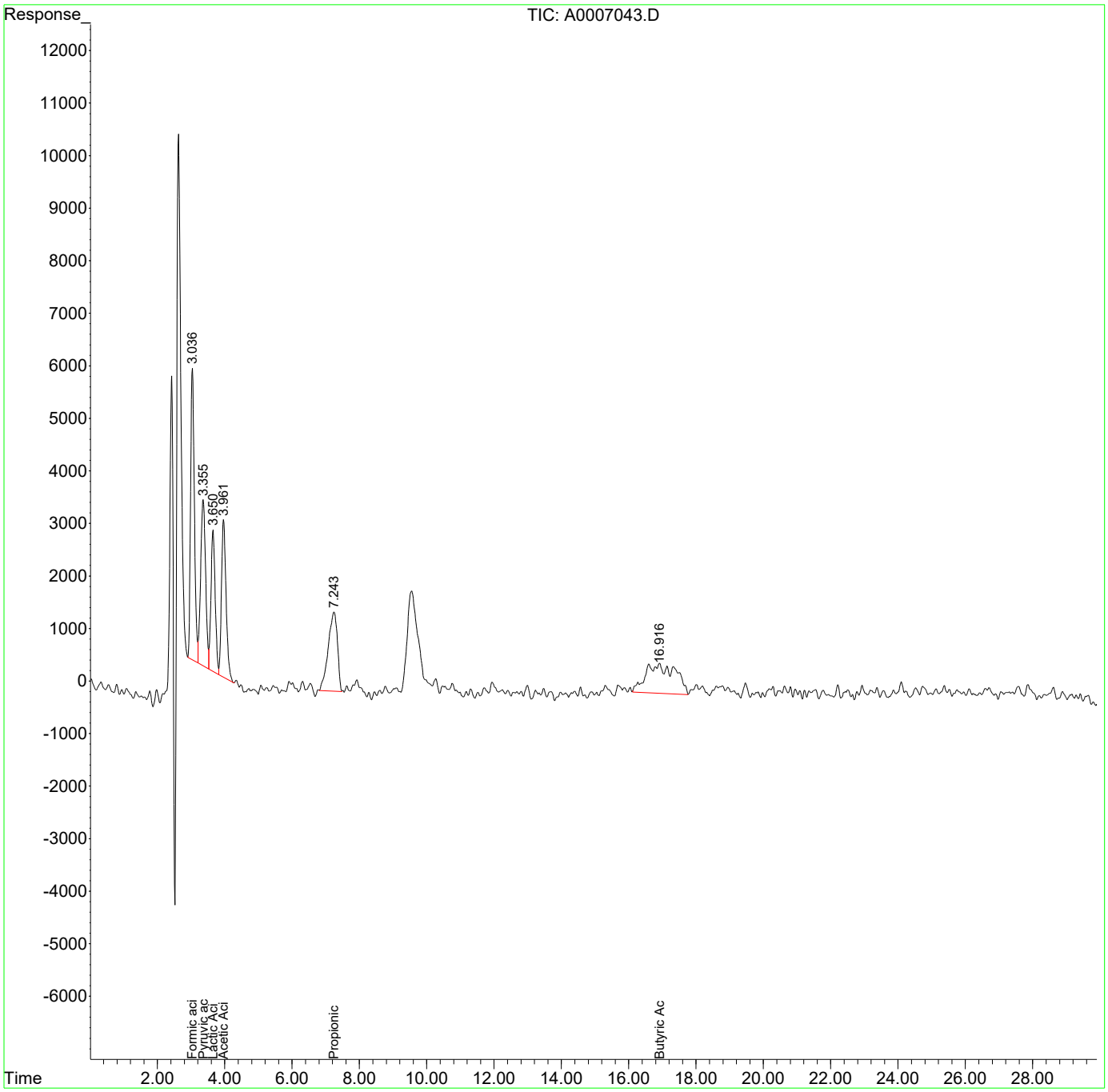
(f)=RT Delta > 1/2 Window (m)=manual int.

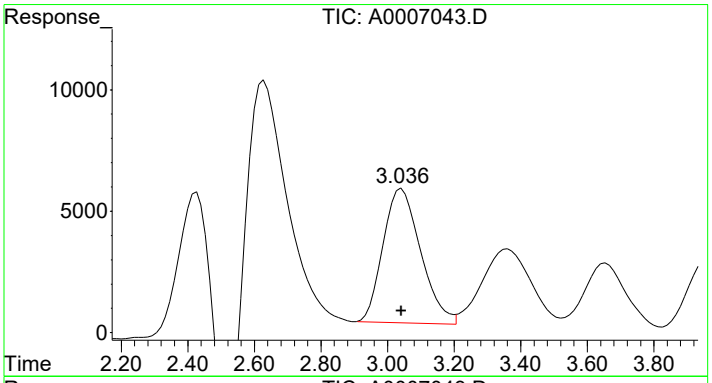
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007043.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 20:43:03
Operator : AFelser
Sample : 0.5/5 STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:16 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

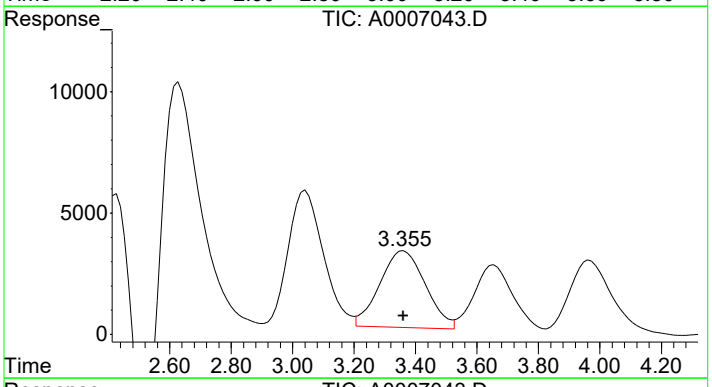
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





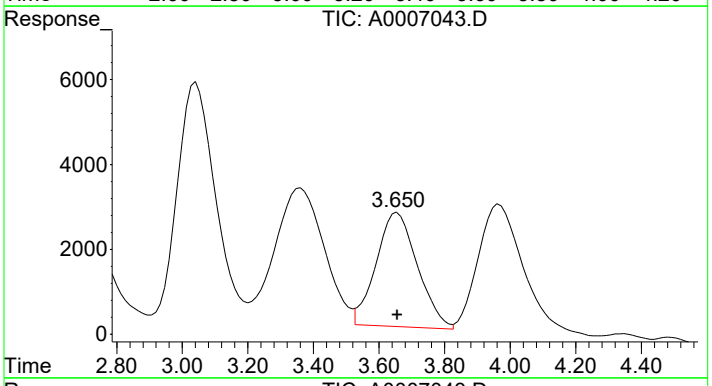
#1 Formic acid

R.T.: 3.042 min
Delta R.T.: 0.001 min
Response: 434736
Conc: 4.74 ppm



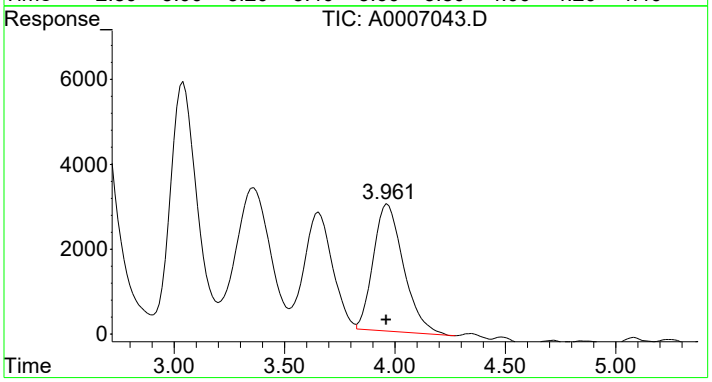
#2 Pyruvic acid

R.T.: 3.361 min
Delta R.T.: 0.000 min
Response: 326089
Conc: 0.45 ppm



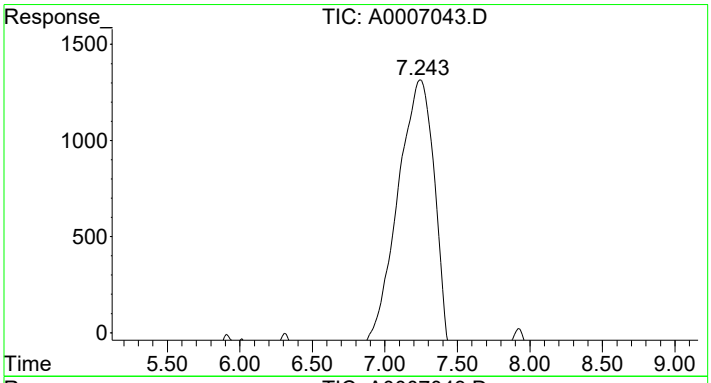
#3 Lactic Acid

R.T.: 3.655 min
Delta R.T.: 0.000 min
Response: 236037
Conc: 4.59 ppm



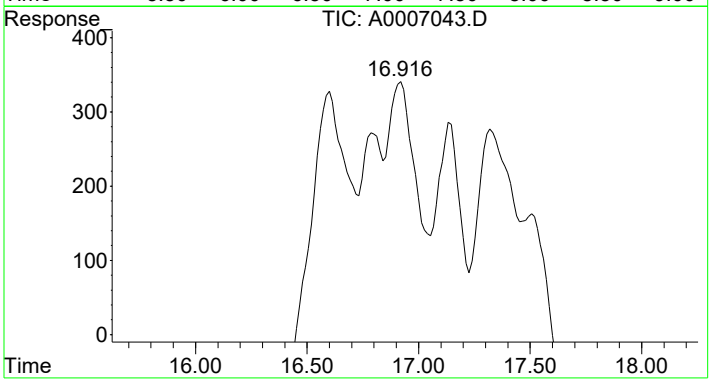
#4 Acetic Acid

R.T.: 3.967 min
Delta R.T.: 0.006 min
Response: 285414
Conc: 4.75 ppm



#5 Propionic Acid

R.T.: 7.243 min
Delta R.T.: 0.011 min
Response: 285275
Conc: 5.01 ppm m



#6 Butyric Acid

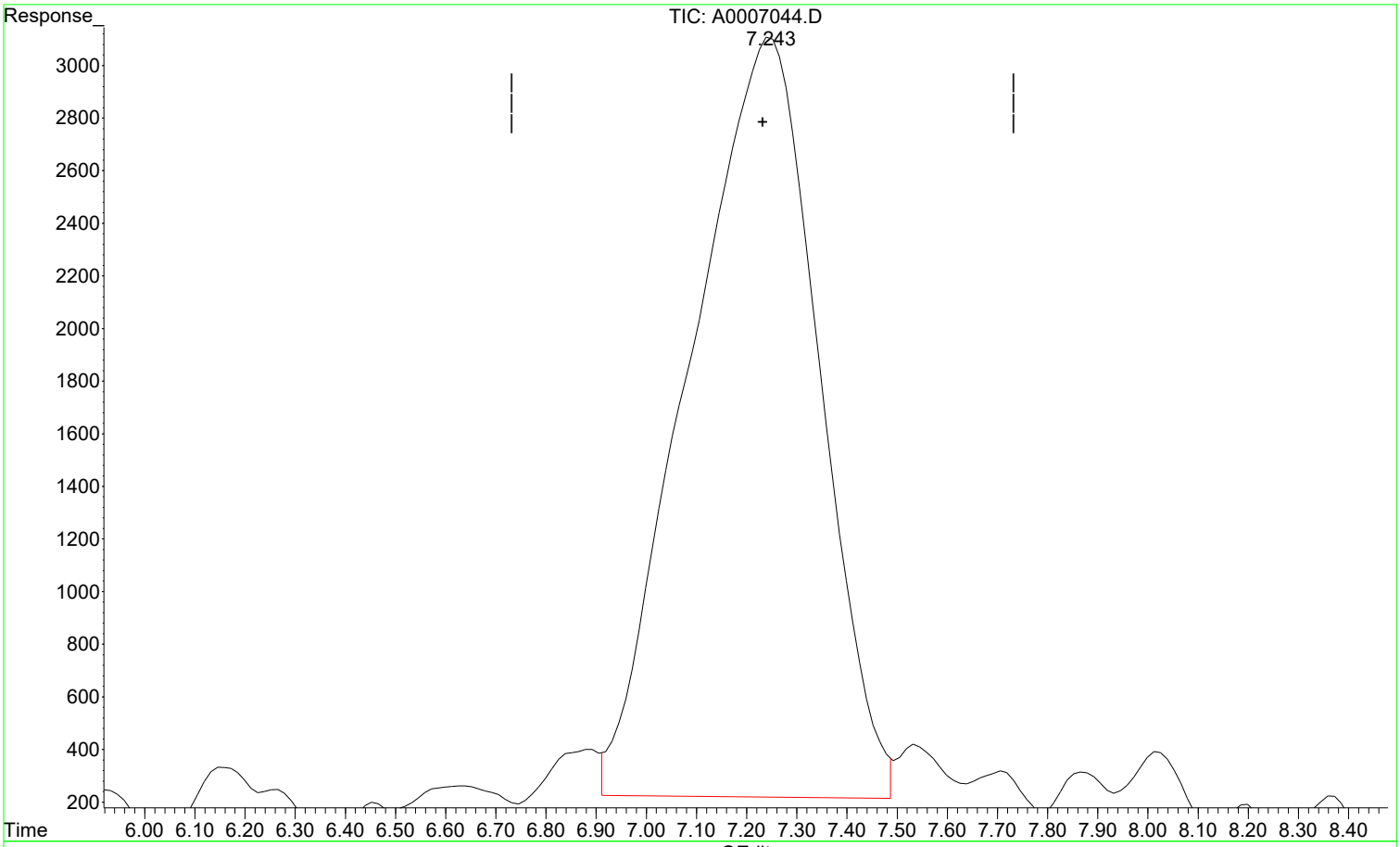
R.T.: 16.916 min
Delta R.T.: -0.353 min
Response: 347127
Conc: 4.63 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007044.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 21:15:24
Operator : AFelser
Sample : 1/10 STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:18 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.243min 9.047 ppm m

response 515571

Manual Integration:

After

Poor integration.

06/19/24

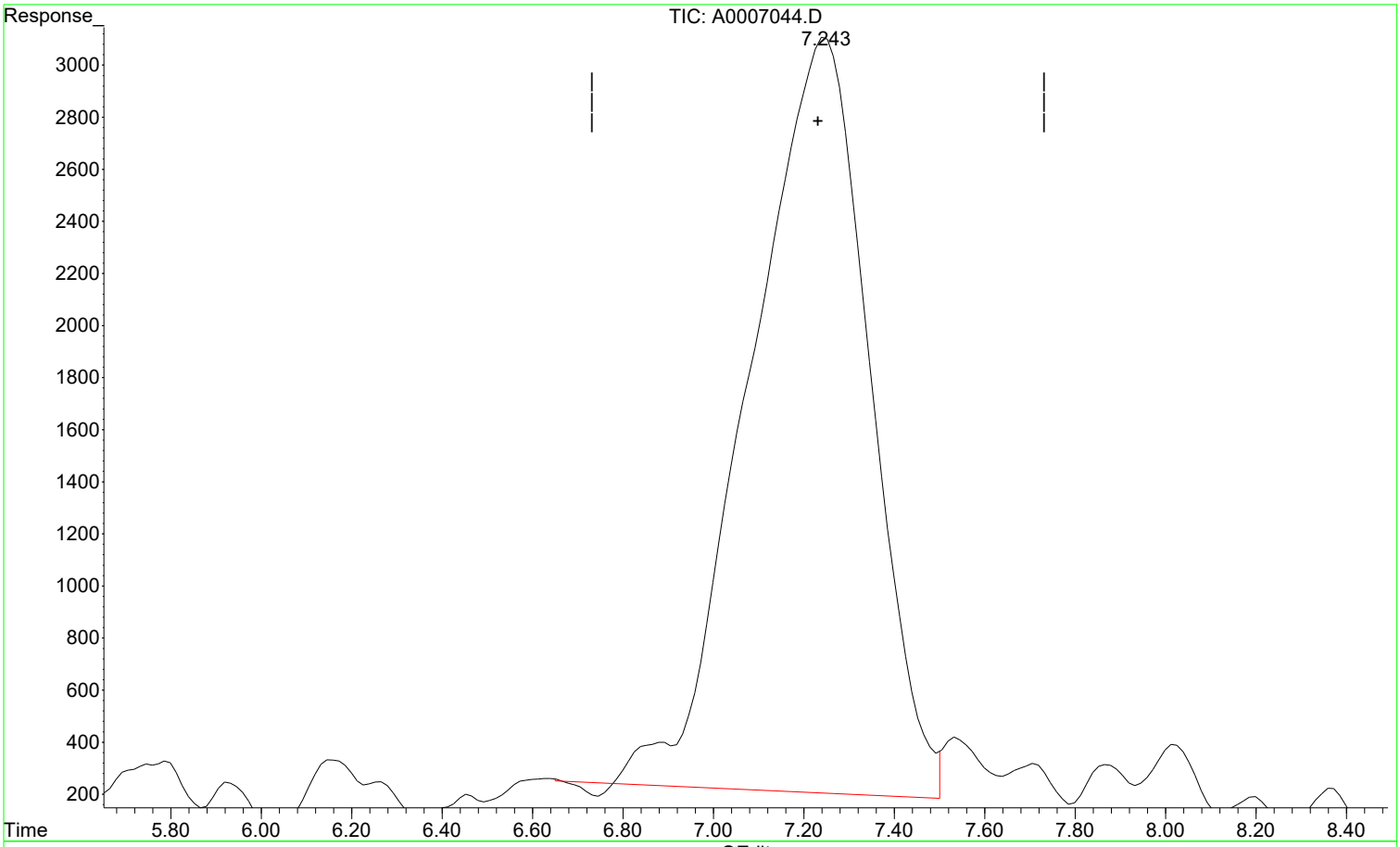
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007044.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 21:15:24
Operator : AFelser
Sample : 1/10 STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:18 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.249min 9.281 ppm

response 528908

Manual Integration:

Before

06/19/24

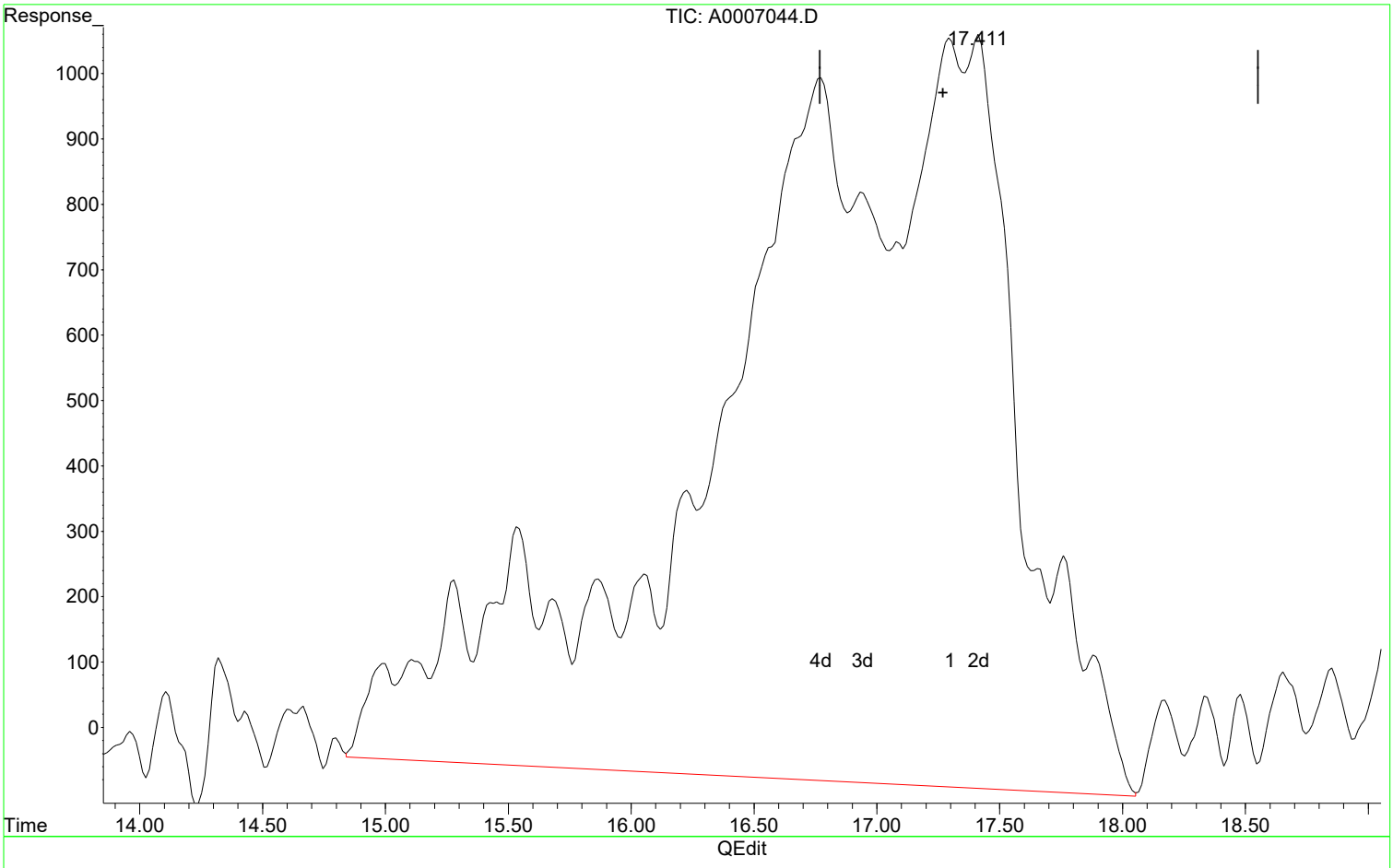
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007044.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 21:15:24
Operator : AFelser
Sample : 1/10 STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:18 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.410min 12.526 ppm m

response 938588

Manual Integration:

After

Poor integration.

06/19/24

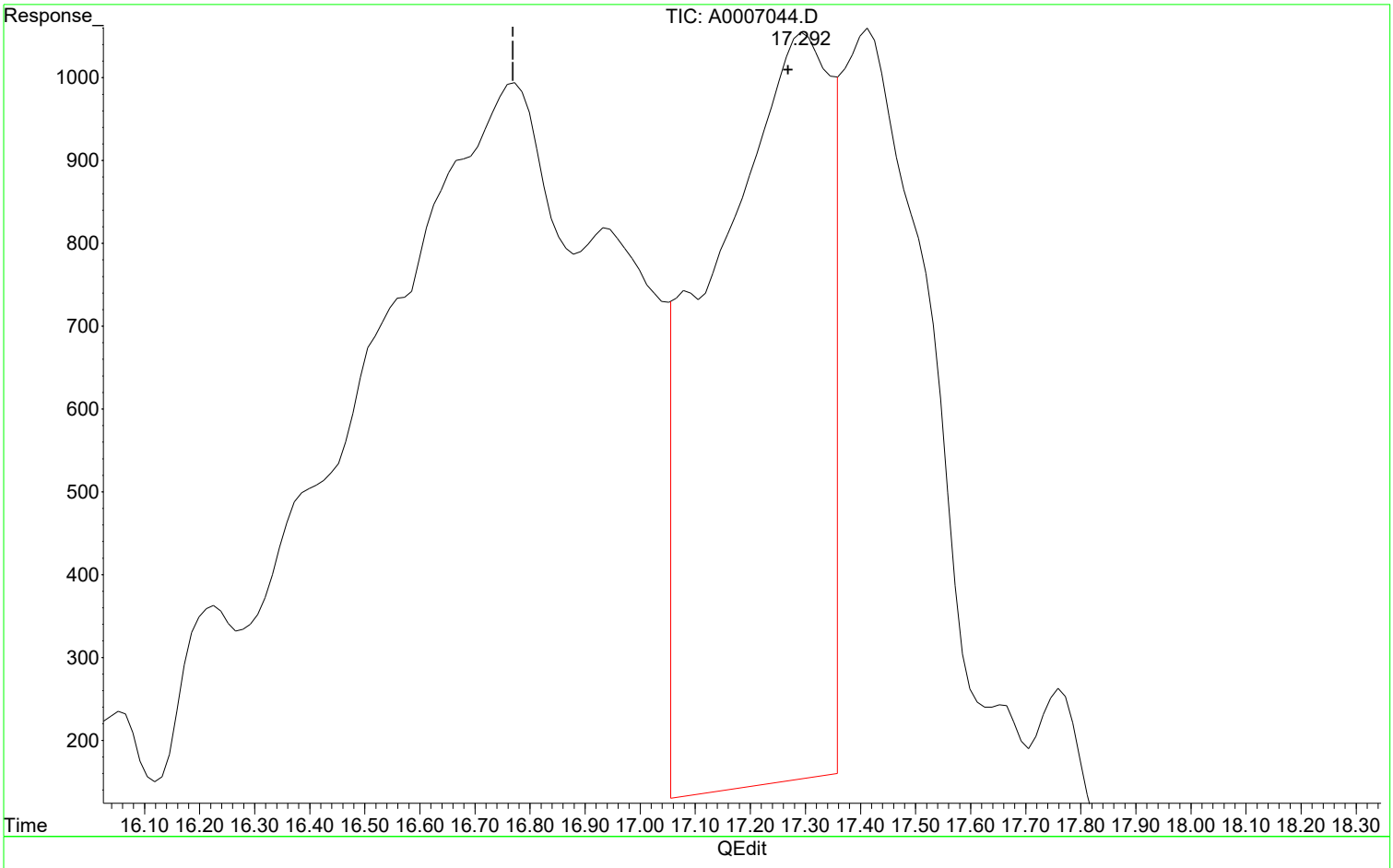
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007044.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 21:15:24
Operator : AFelser
Sample : 1/10 STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:18 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.299min 1.802 ppm

response 135006

Manual Integration:

Before

06/19/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007044.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 21:15:24
Operator : AFelser
Sample : 1/10 STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:18 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

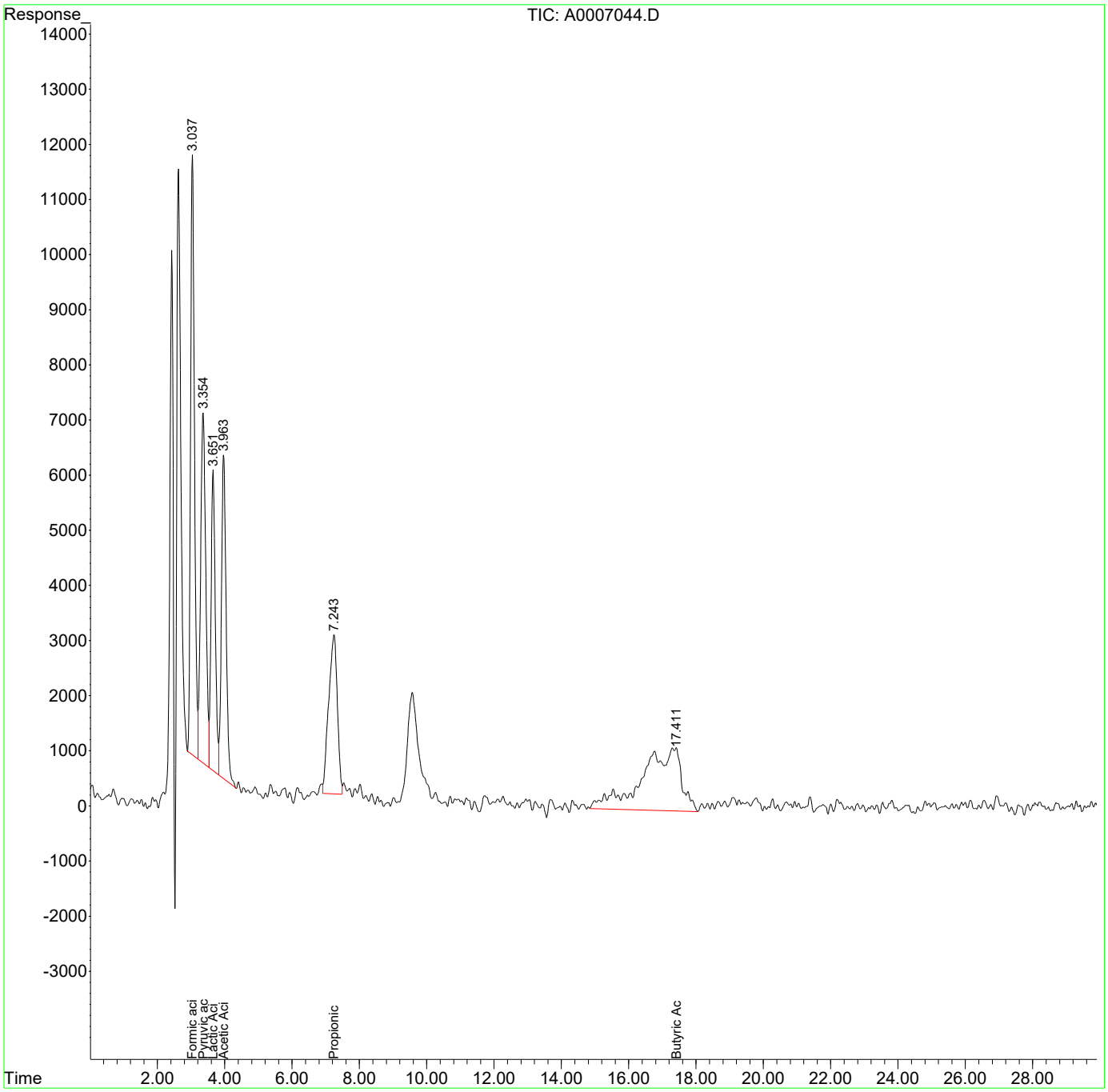
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.042	873572	9.523	ppm	
2) T	Pyruvic acid	3.359	677169	0.931	ppm	
3) T	Lactic Acid	3.656	476824	9.265	ppm	
4) T	Acetic Acid	3.969	569145	9.469	ppm	
5) T	Propionic Acid	7.243	515571	9.047	ppm	m
6) T	Butyric Acid	17.410	938588	12.526	ppm	m

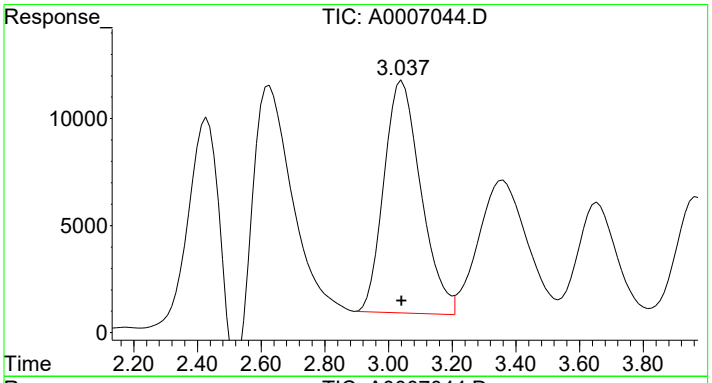
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007044.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 21:15:24
Operator : AFelser
Sample : 1/10 STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:18 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

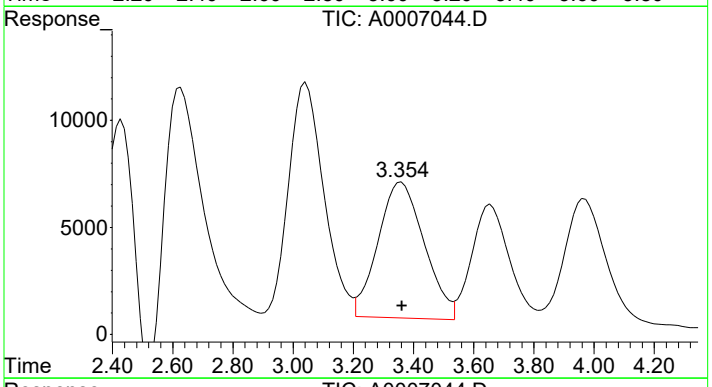
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





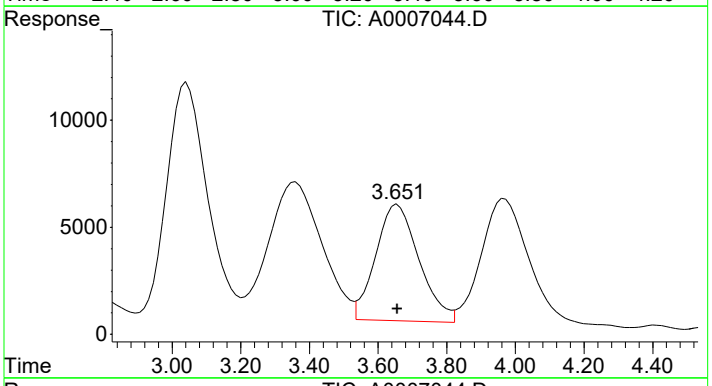
#1 Formic acid

R.T.: 3.042 min
Delta R.T.: 0.001 min
Response: 873572
Conc: 9.52 ppm



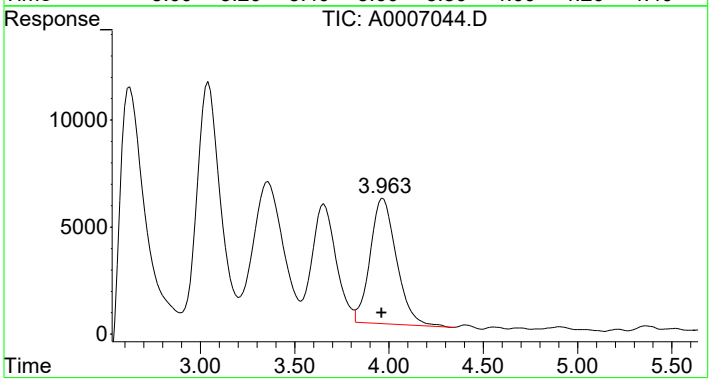
#2 Pyruvic acid

R.T.: 3.359 min
Delta R.T.: -0.002 min
Response: 677169
Conc: 0.93 ppm



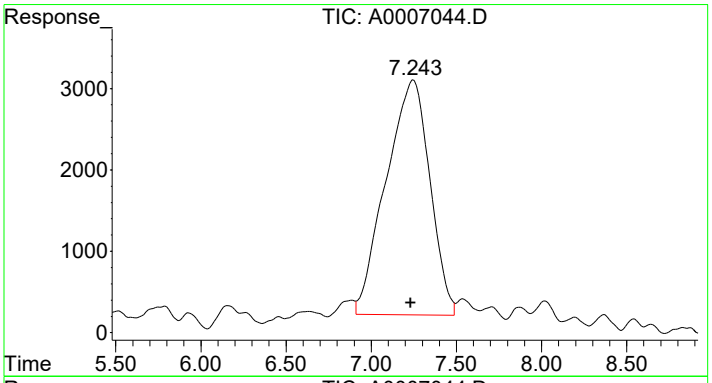
#3 Lactic Acid

R.T.: 3.656 min
Delta R.T.: 0.000 min
Response: 476824
Conc: 9.26 ppm



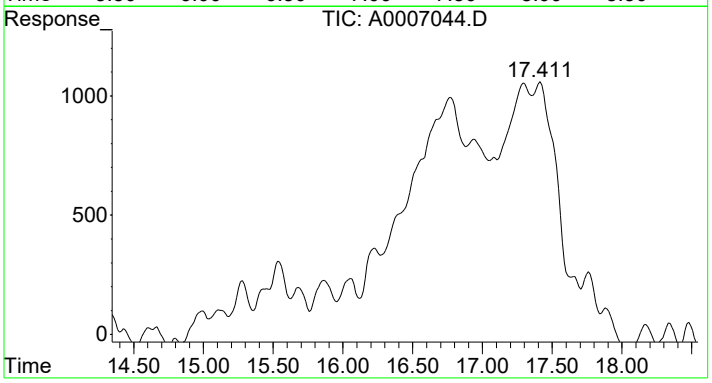
#4 Acetic Acid

R.T.: 3.969 min
Delta R.T.: 0.008 min
Response: 569145
Conc: 9.47 ppm



#5 Propionic Acid

R.T.: 7.243 min
Delta R.T.: 0.011 min
Response: 515571
Conc: 9.05 ppm m



#6 Butyric Acid

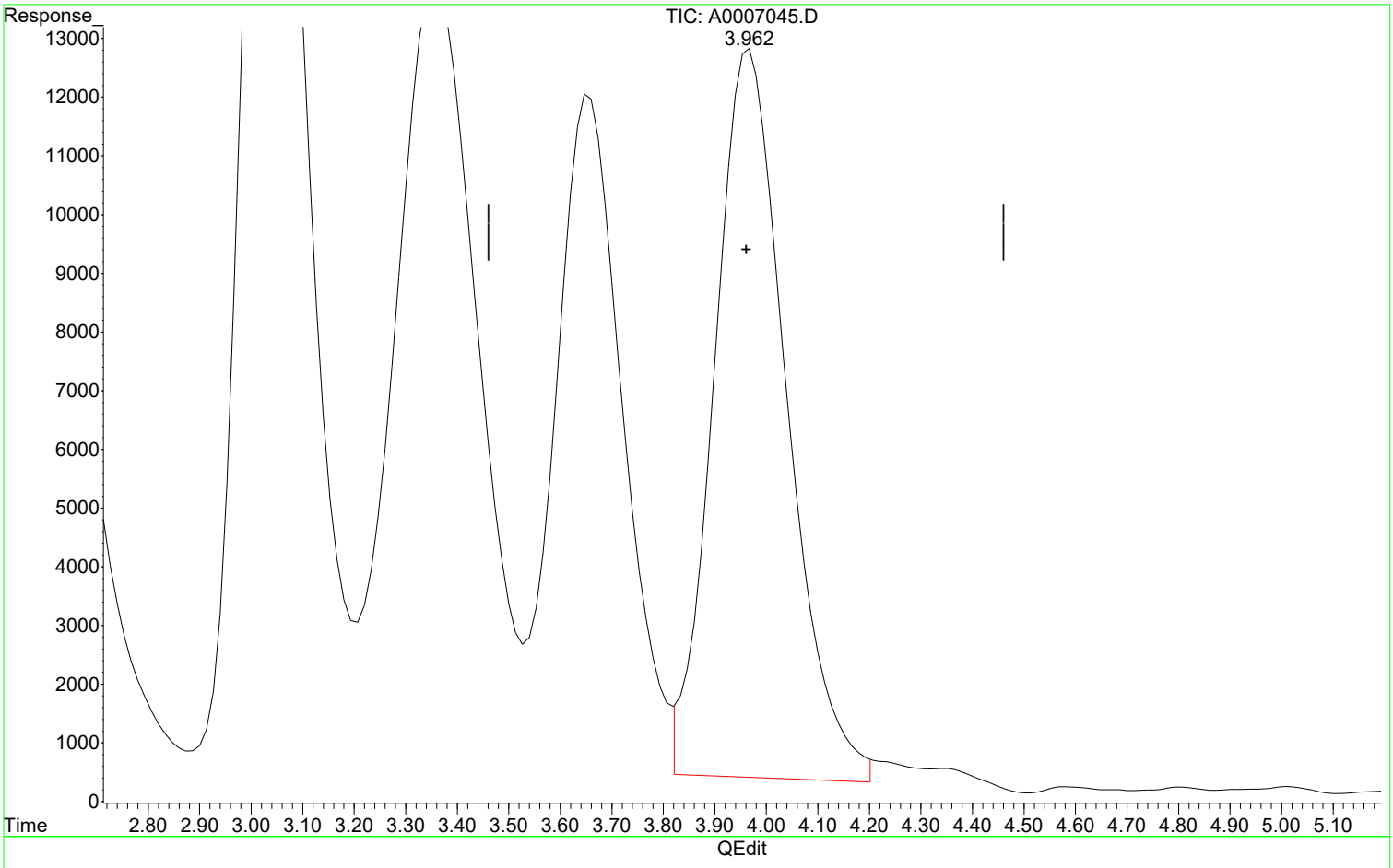
R.T.: 17.410 min
Delta R.T.: 0.142 min
Response: 938588
Conc: 12.53 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007045.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 21:47:41
Operator : AFelser
Sample : 2/20 STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:20 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.962min 20.201 ppm m

response 1214209

Manual Integration:

After

Poor integration.

06/19/24

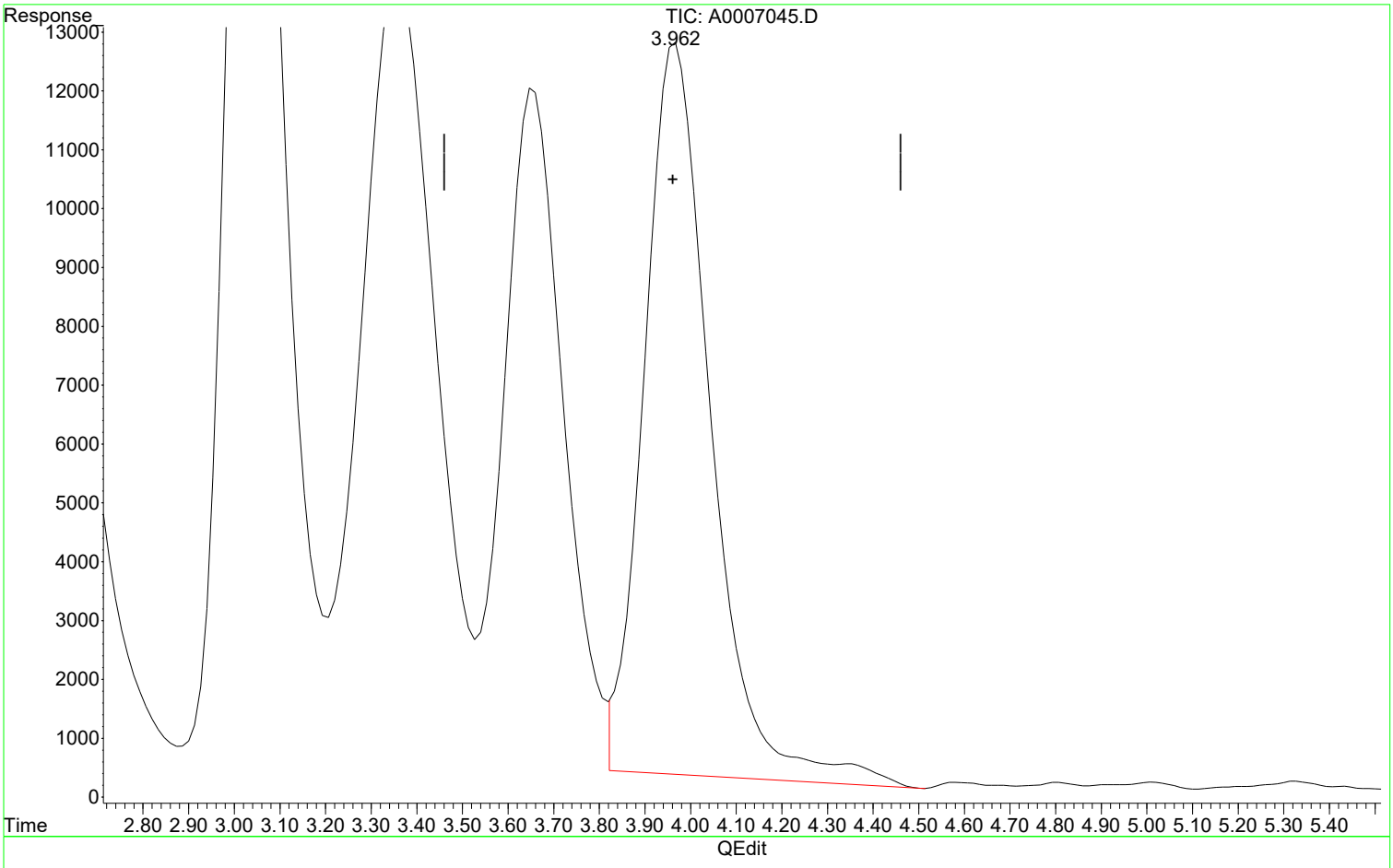
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007045.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 21:47:41
Operator : AFelser
Sample : 2/20 STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:20 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.968min 21.192 ppm

response 1273782

Manual Integration:

Before

06/19/24

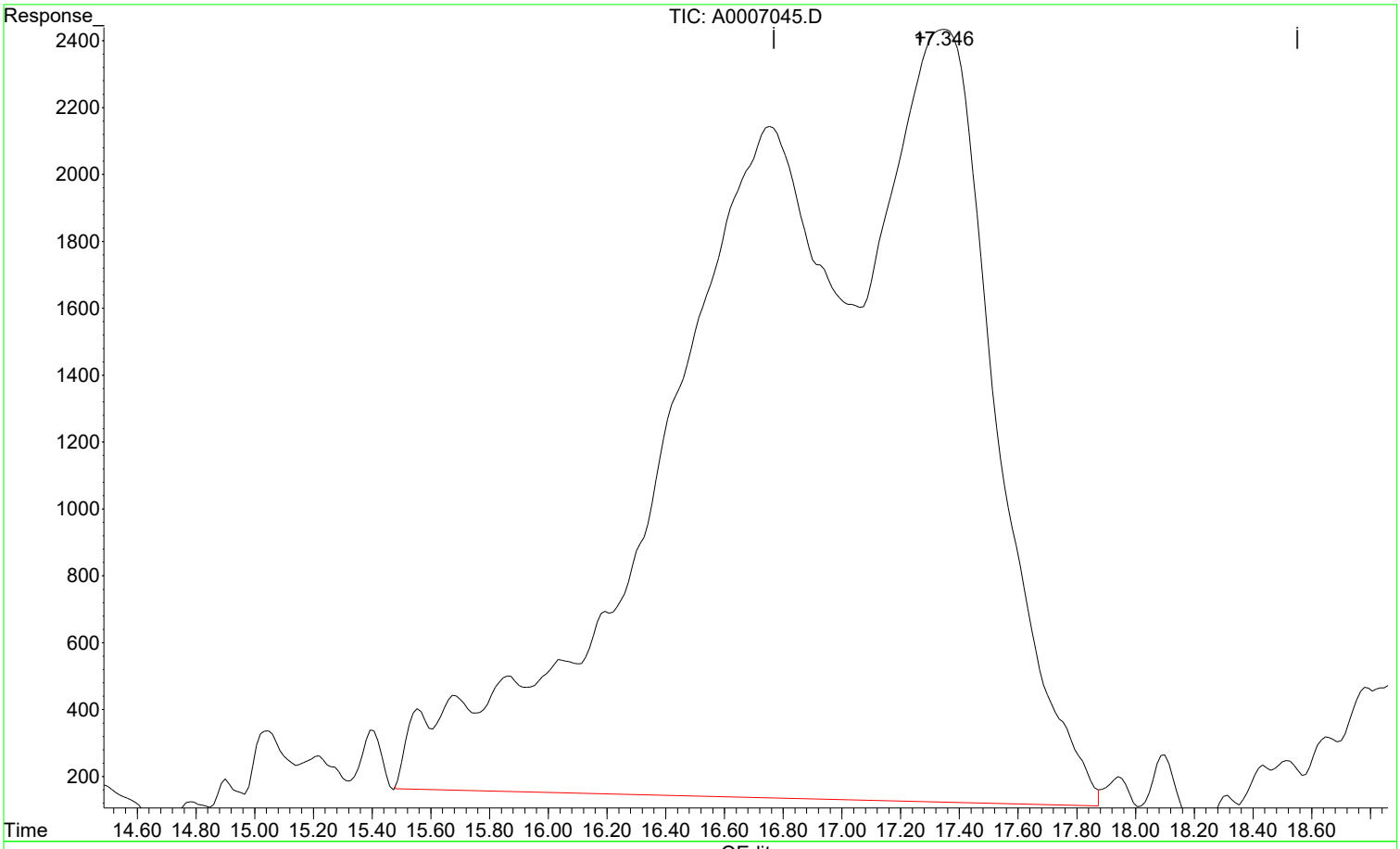
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007045.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 21:47:41
Operator : AFelser
Sample : 2/20 STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:20 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.346min 19.930 ppm m

response 1493328

Manual Integration:

After

Poor integration.

06/19/24

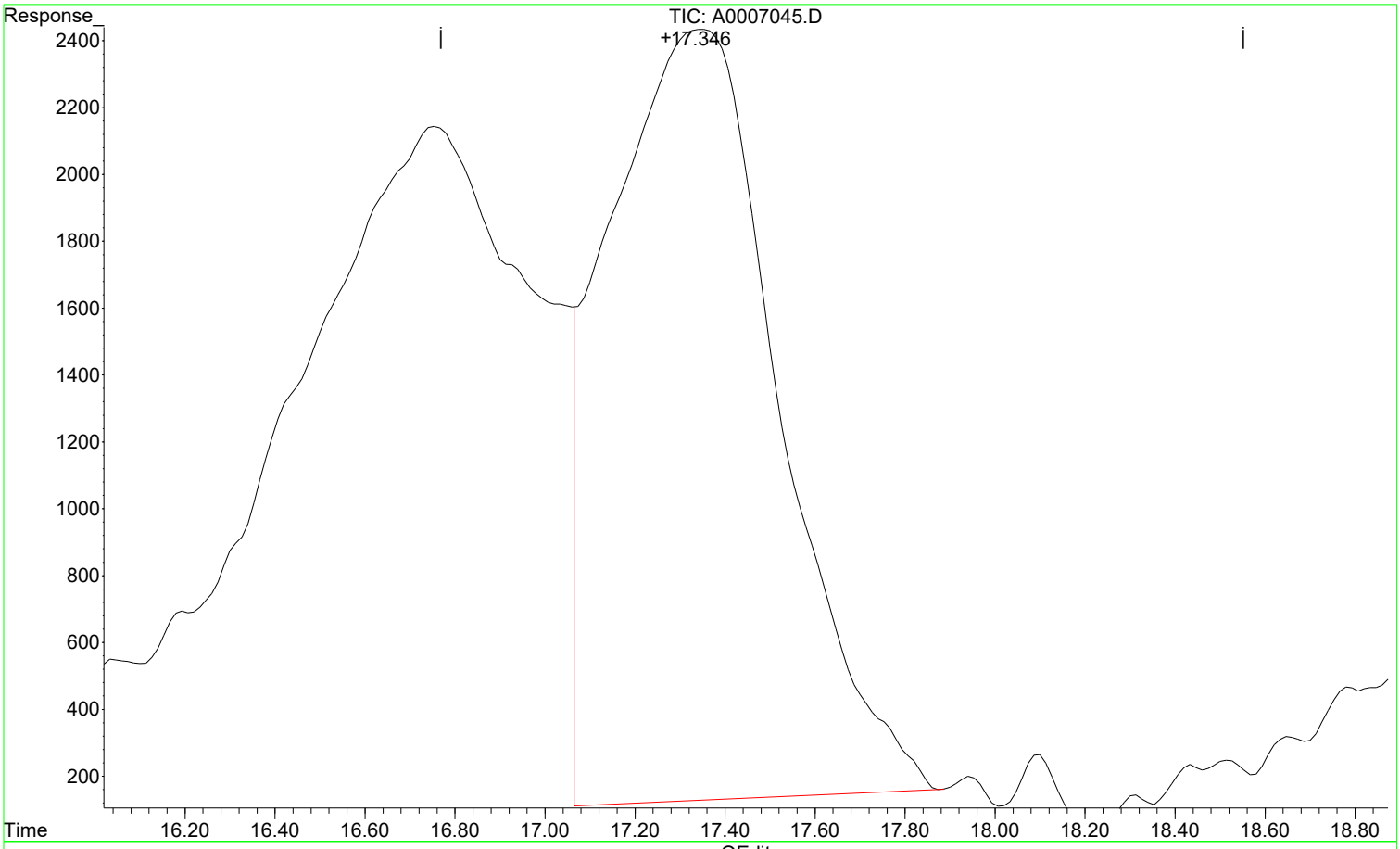
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007045.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 21:47:41
Operator : AFelser
Sample : 2/20 STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:20 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.351min 8.270 ppm

response 619624

Manual Integration:

Before

06/19/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007045.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 21:47:41
Operator : AFelser
Sample : 2/20 STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:20 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.042	1881253	20.508	ppm	
2) T	Pyruvic acid	3.361	1478860	2.032	ppm	
3) T	Lactic Acid	3.657	1040582	20.219	ppm	
4) T	Acetic Acid	3.962	1214209	20.201	ppm	m
5) T	Propionic Acid	7.242	1126775	19.771	ppm	
6) T	Butyric Acid	17.346	1493328	19.930	ppm	m

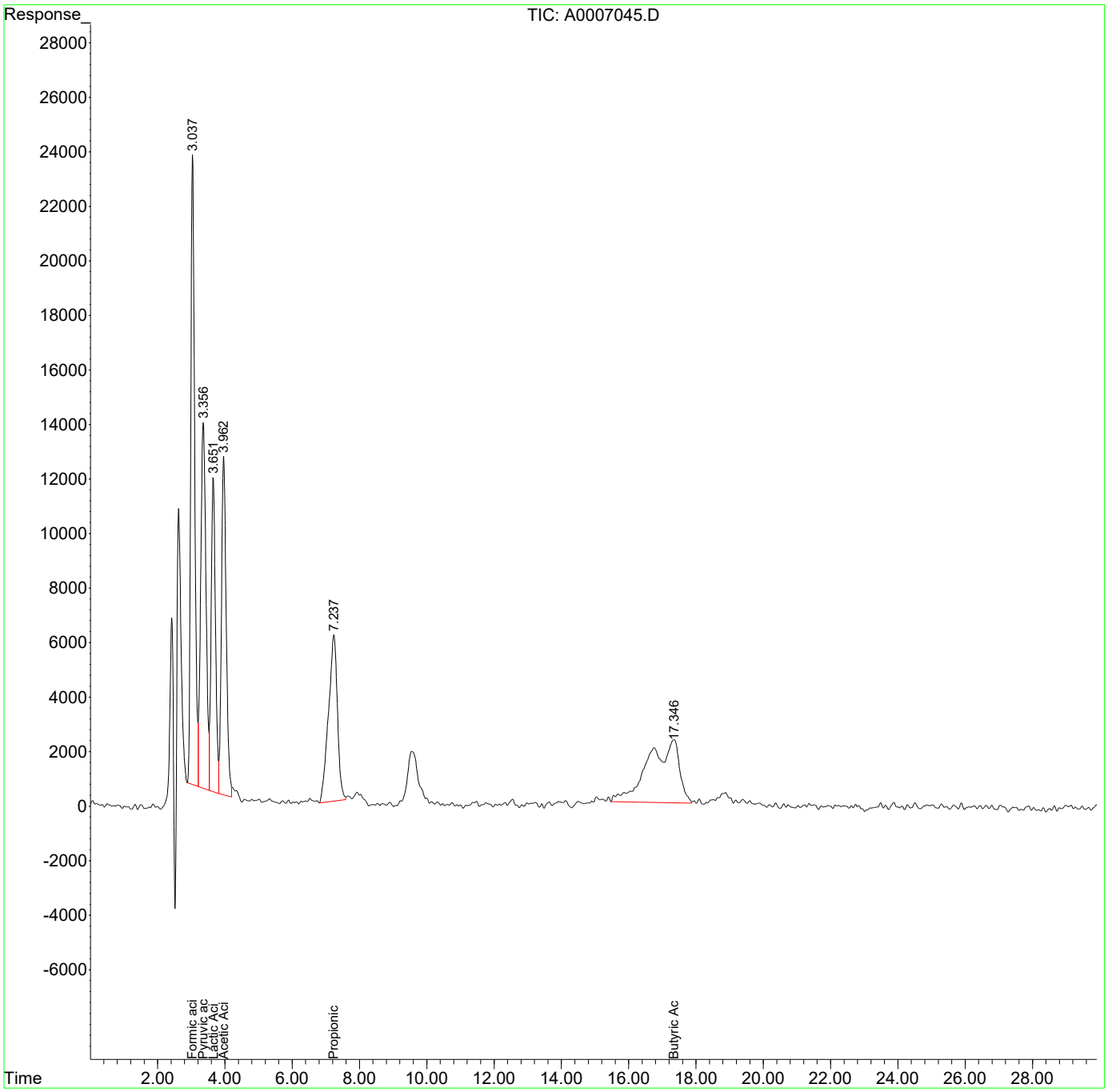
(f)=RT Delta > 1/2 Window (m)=manual int.

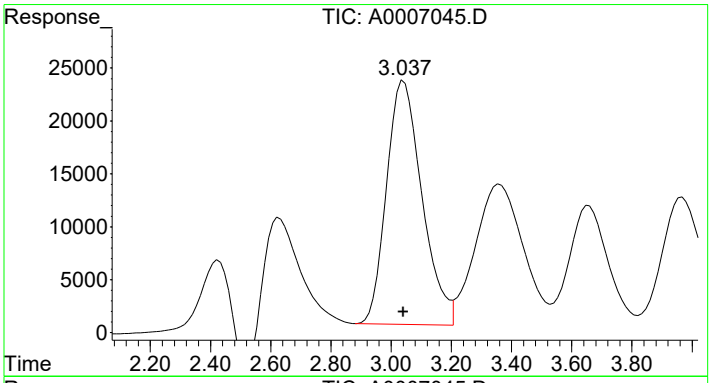
1st AF 06/19/24
2nd BA 06/19/24

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007045.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 21:47:41
Operator : AFelser
Sample : 2/20 STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:20 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

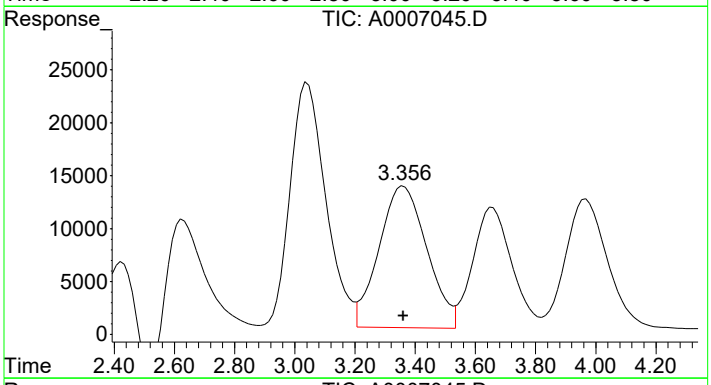
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





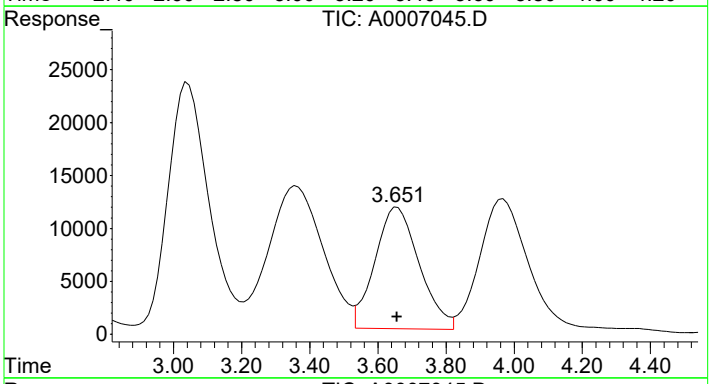
#1 Formic acid

R.T.: 3.042 min
Delta R.T.: 0.000 min
Response: 1881253
Conc: 20.51 ppm



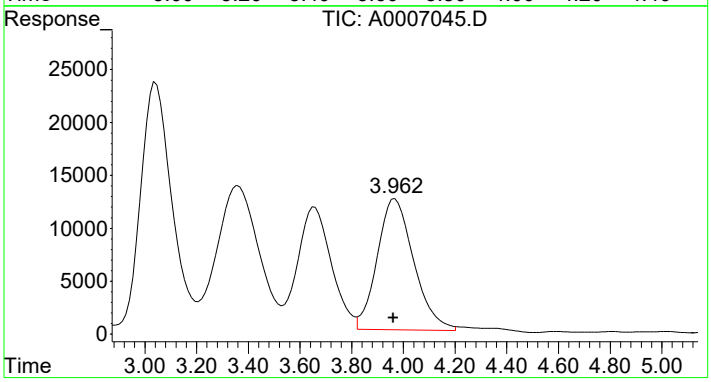
#2 Pyruvic acid

R.T.: 3.361 min
Delta R.T.: 0.000 min
Response: 1478860
Conc: 2.03 ppm



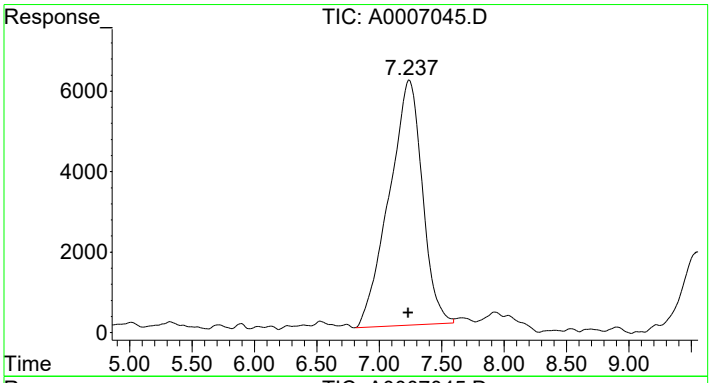
#3 Lactic Acid

R.T.: 3.657 min
Delta R.T.: 0.001 min
Response: 1040582
Conc: 20.22 ppm



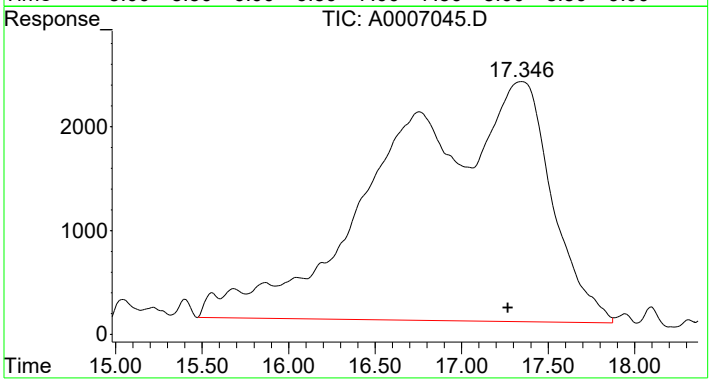
#4 Acetic Acid

R.T.: 3.962 min
Delta R.T.: 0.000 min
Response: 1214209
Conc: 20.20 ppm m



#5 Propionic Acid

R.T.: 7.242 min
Delta R.T.: 0.010 min
Response: 1126775
Conc: 19.77 ppm



#6 Butyric Acid

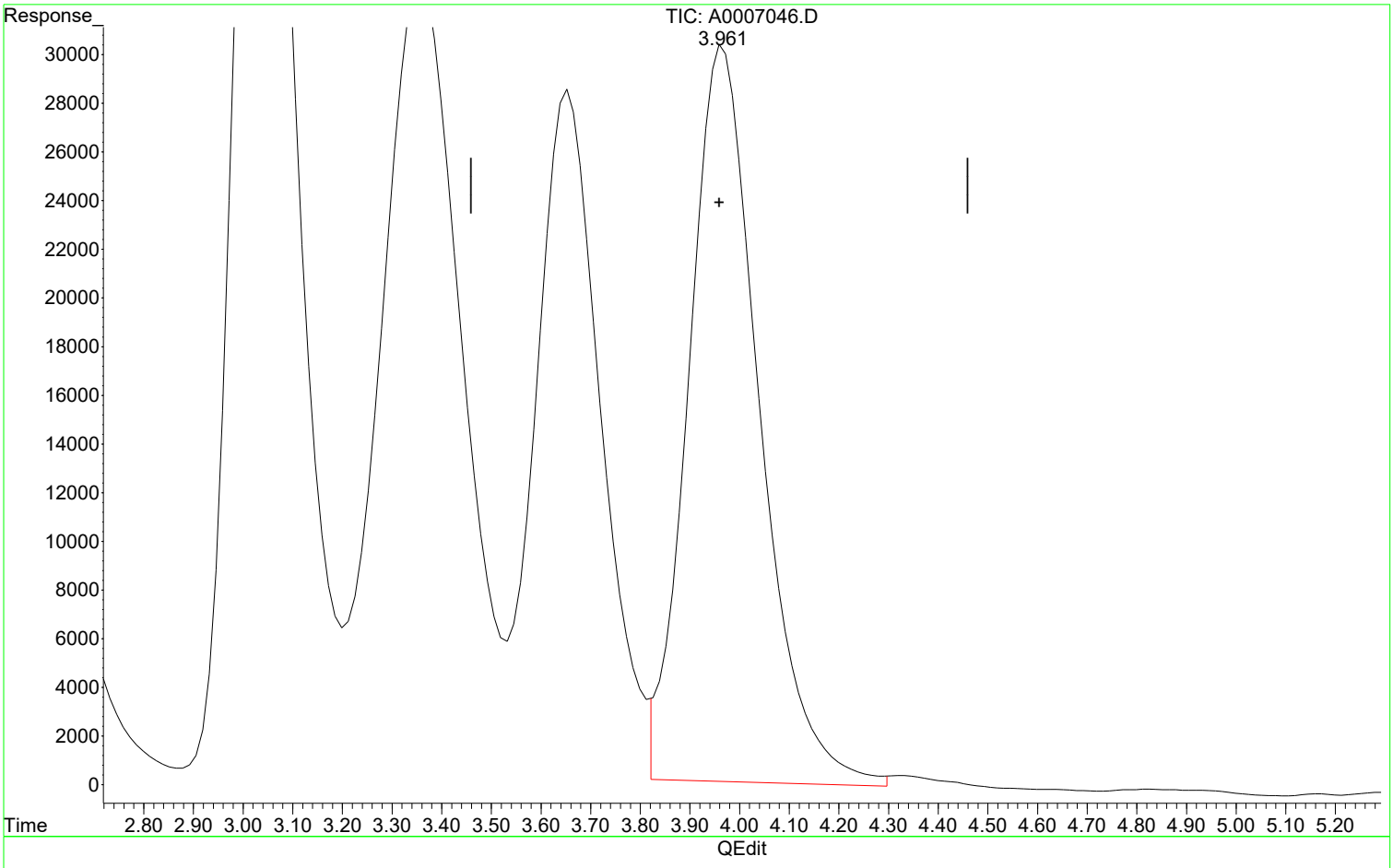
R.T.: 17.346 min
Delta R.T.: 0.077 min
Response: 1493328
Conc: 19.93 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007046.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 22:19:59
Operator : AFelser
Sample : 5/50 STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:36:58 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Mon Jun 10 14:38:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.961min 51.453 ppm m

response 3005389

Manual Integration:

After

Poor integration.

06/19/24

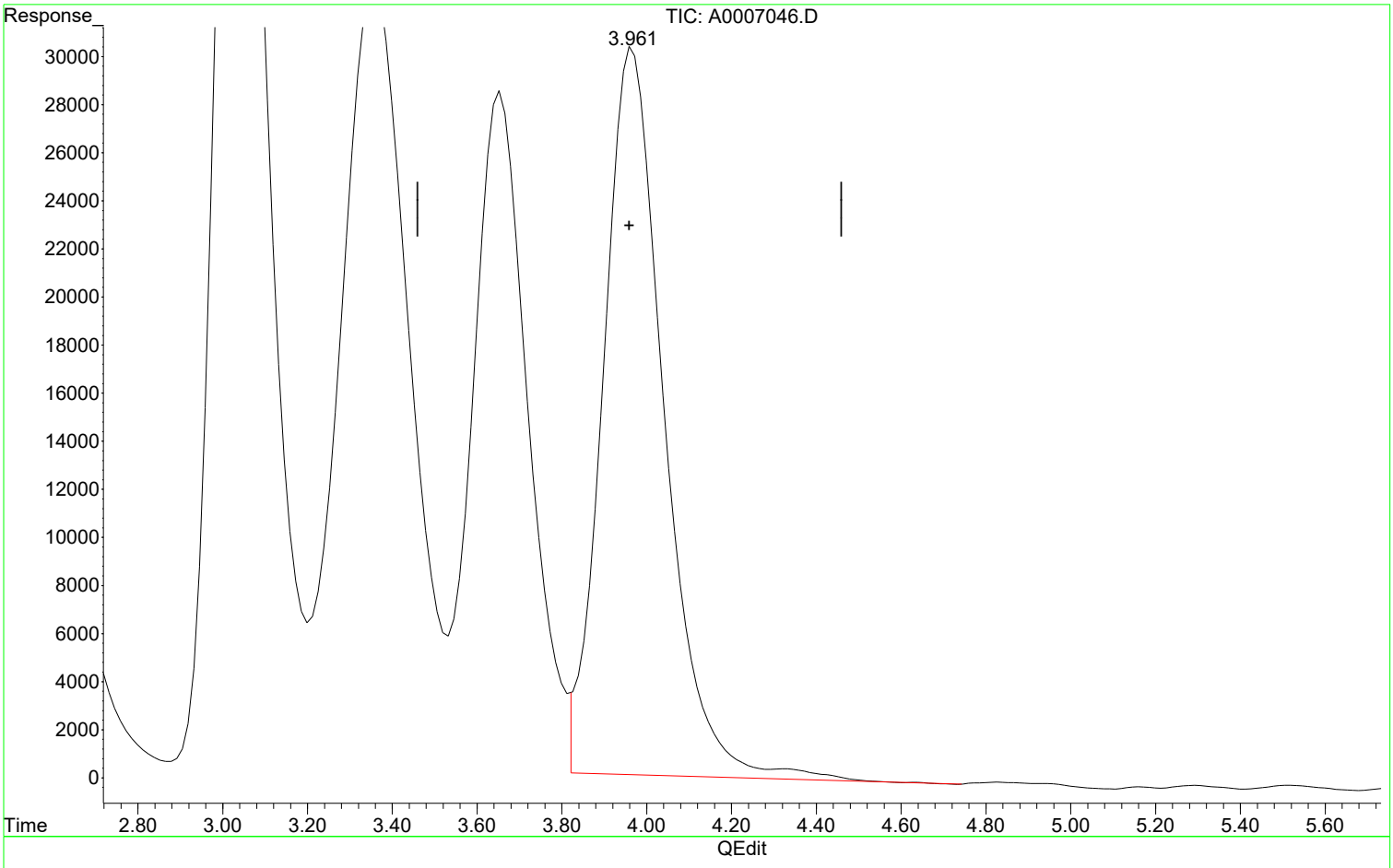
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007046.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 22:19:59
Operator : AFelser
Sample : 5/50 STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:36:58 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Mon Jun 10 14:38:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.967min 52.219 ppm

response 3050134

Manual Integration:

Before

06/19/24

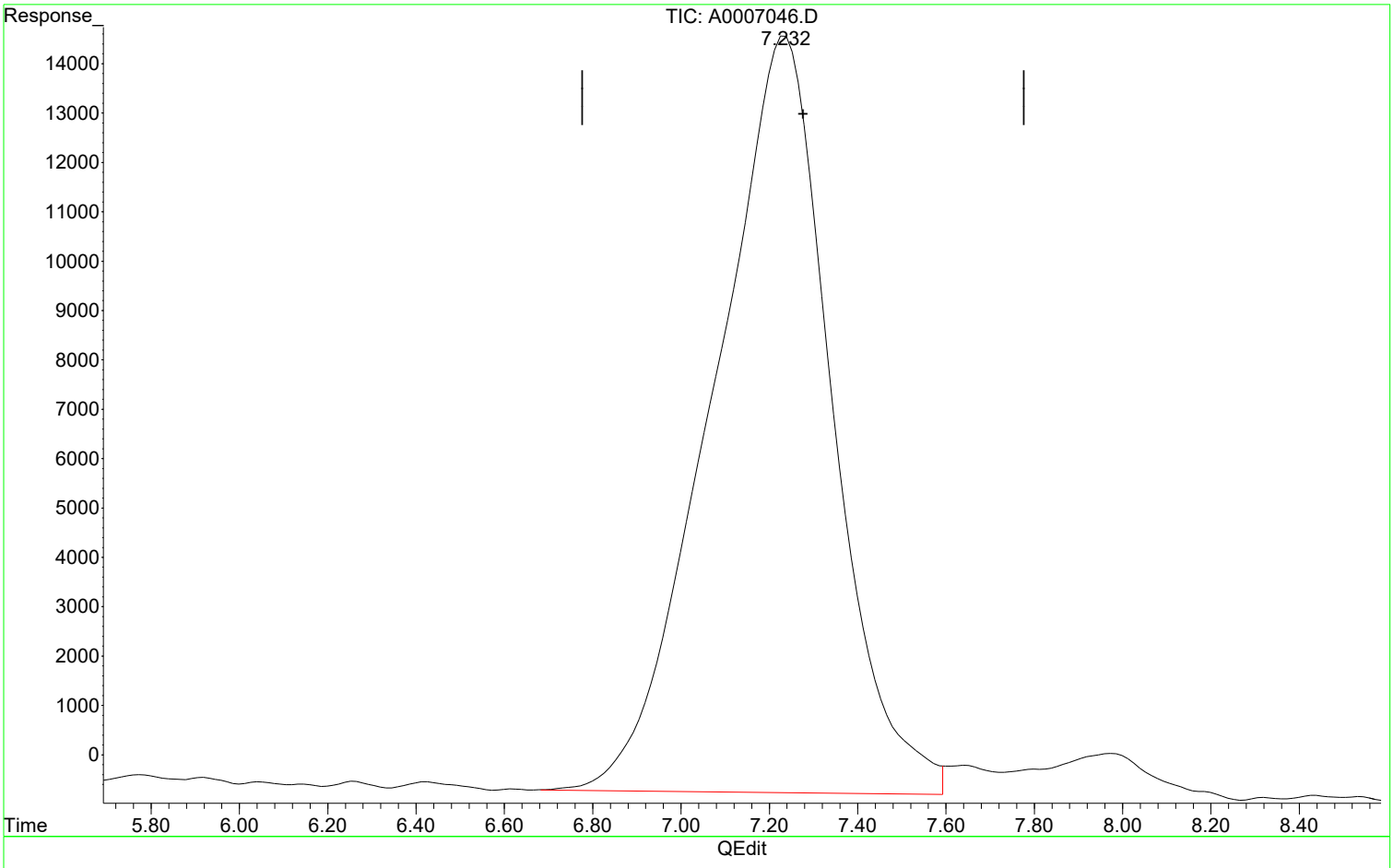
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007046.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 22:19:59
Operator : AFelser
Sample : 5/50 STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:36:58 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Mon Jun 10 14:38:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.232min 50.853 ppm m

response 2849528

Manual Integration:

After

Poor integration.

06/19/24

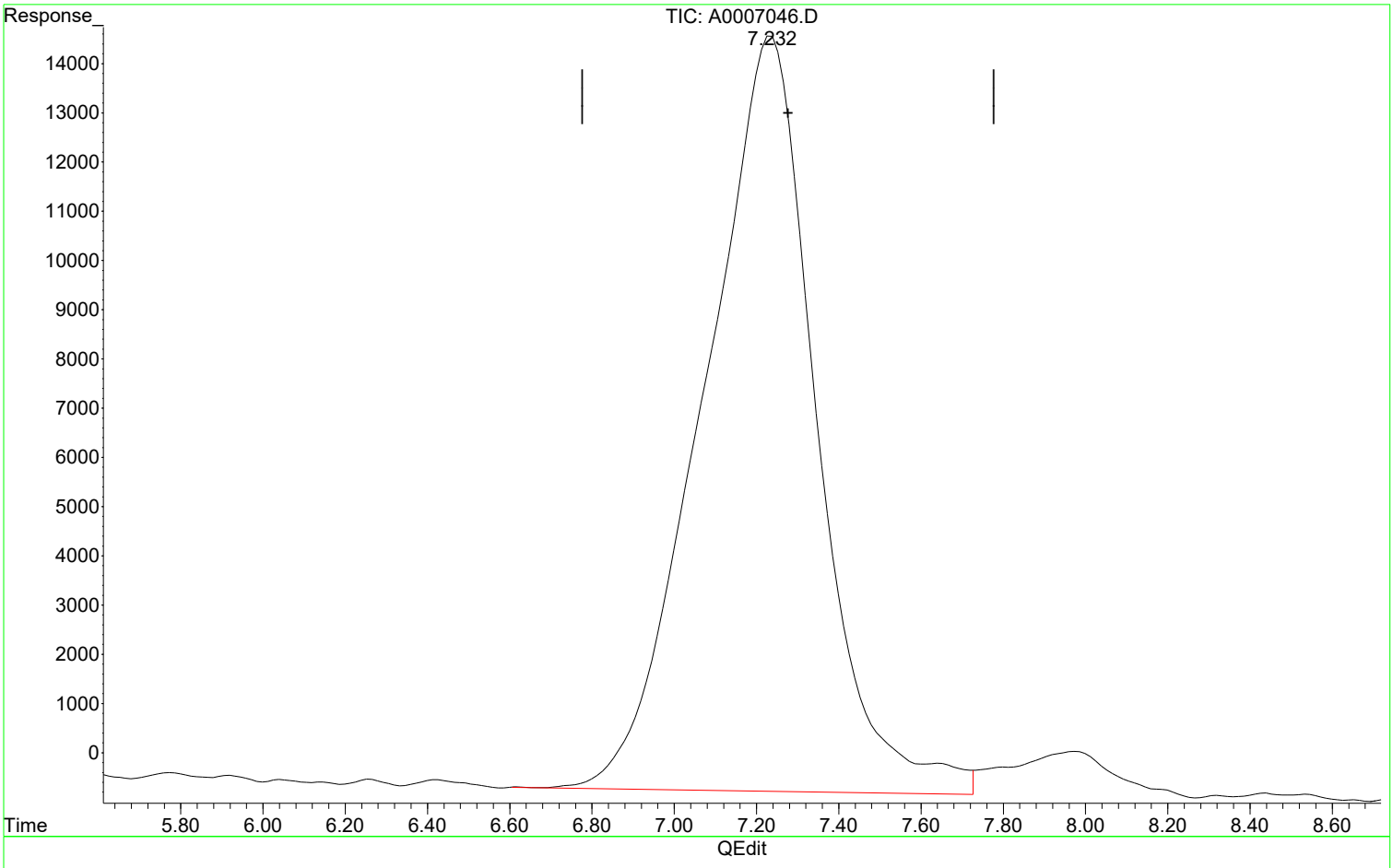
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007046.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 22:19:59
Operator : AFelser
Sample : 5/50 STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:36:58 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Mon Jun 10 14:38:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.237min 51.775 ppm

response 2901206

Manual Integration:

Before

06/19/24

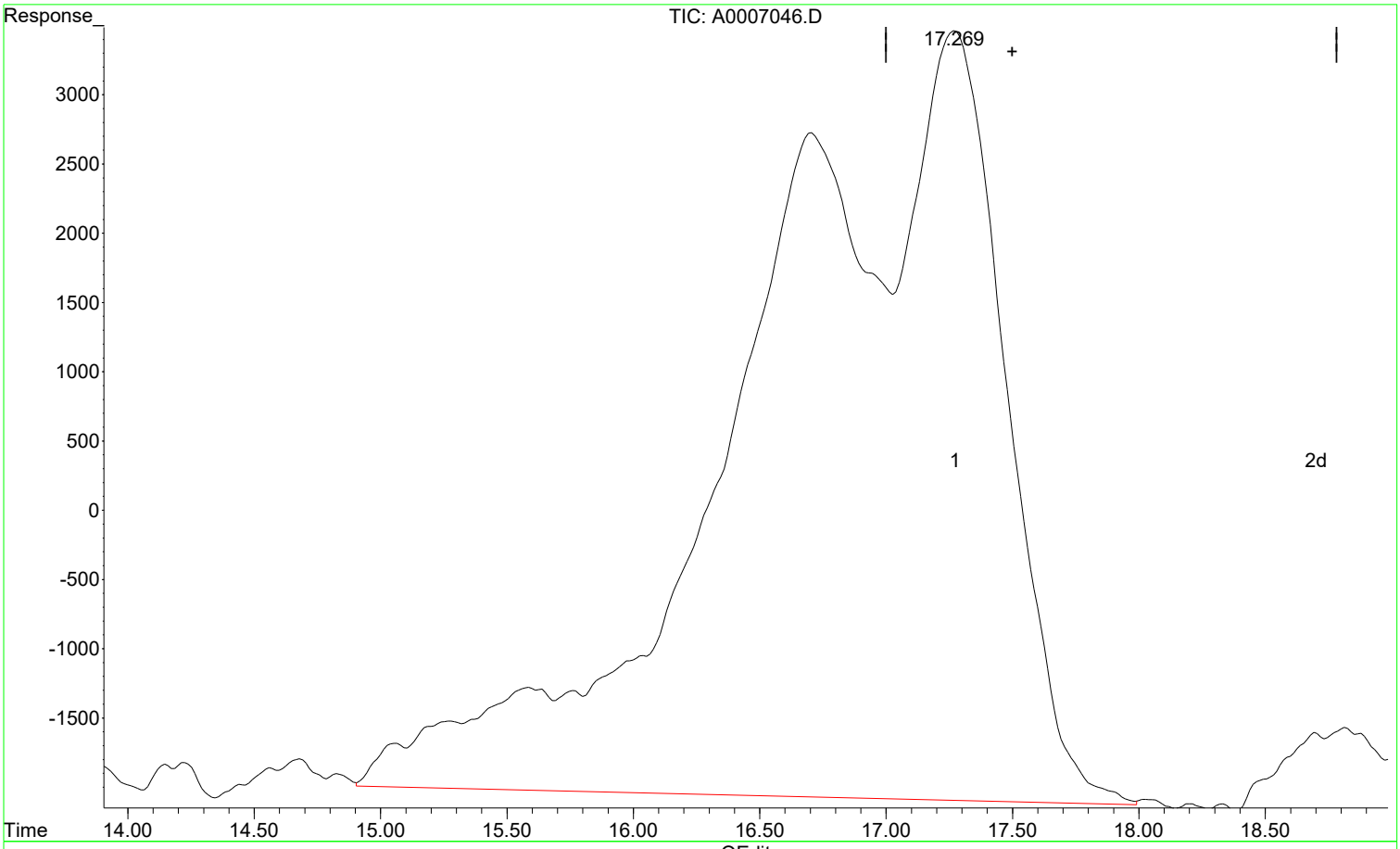
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007046.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 22:19:59
Operator : AFelser
Sample : 5/50 STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:36:58 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Mon Jun 10 14:38:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.269min 45.788 ppm m

response 3746436

Manual Integration:

After

Poor integration.

06/19/24

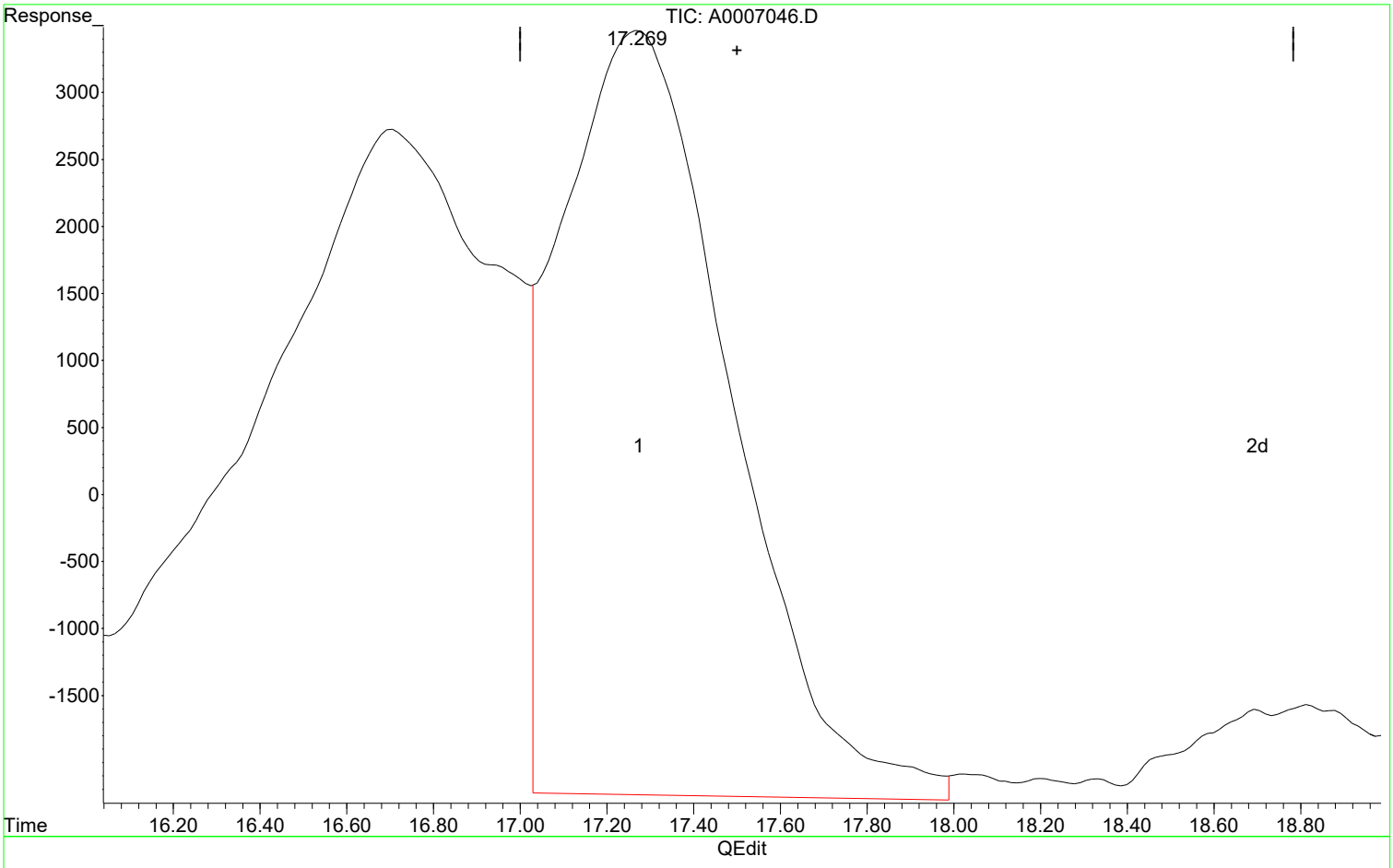
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007046.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 22:19:59
Operator : AFelser
Sample : 5/50 STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:36:58 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Mon Jun 10 14:38:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.274min 19.248 ppm

response 1574902

Manual Integration:

Before

06/19/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007046.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 22:19:59
Operator : AFelser
Sample : 5/50 STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:36:58 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Mon Jun 10 14:38:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.041	4586662	50.693	ppm	
2) T	Pyruvic acid	3.361	3638370	8.096	ppm	
3) T	Lactic Acid	3.656	2573305	54.711	ppm	
4) T	Acetic Acid	3.961	3005389	51.453	ppm	m
5) T	Propionic Acid	7.232	2849528	50.853	ppm	m
6) T	Butyric Acid	17.269	3746436	45.788	ppm	m

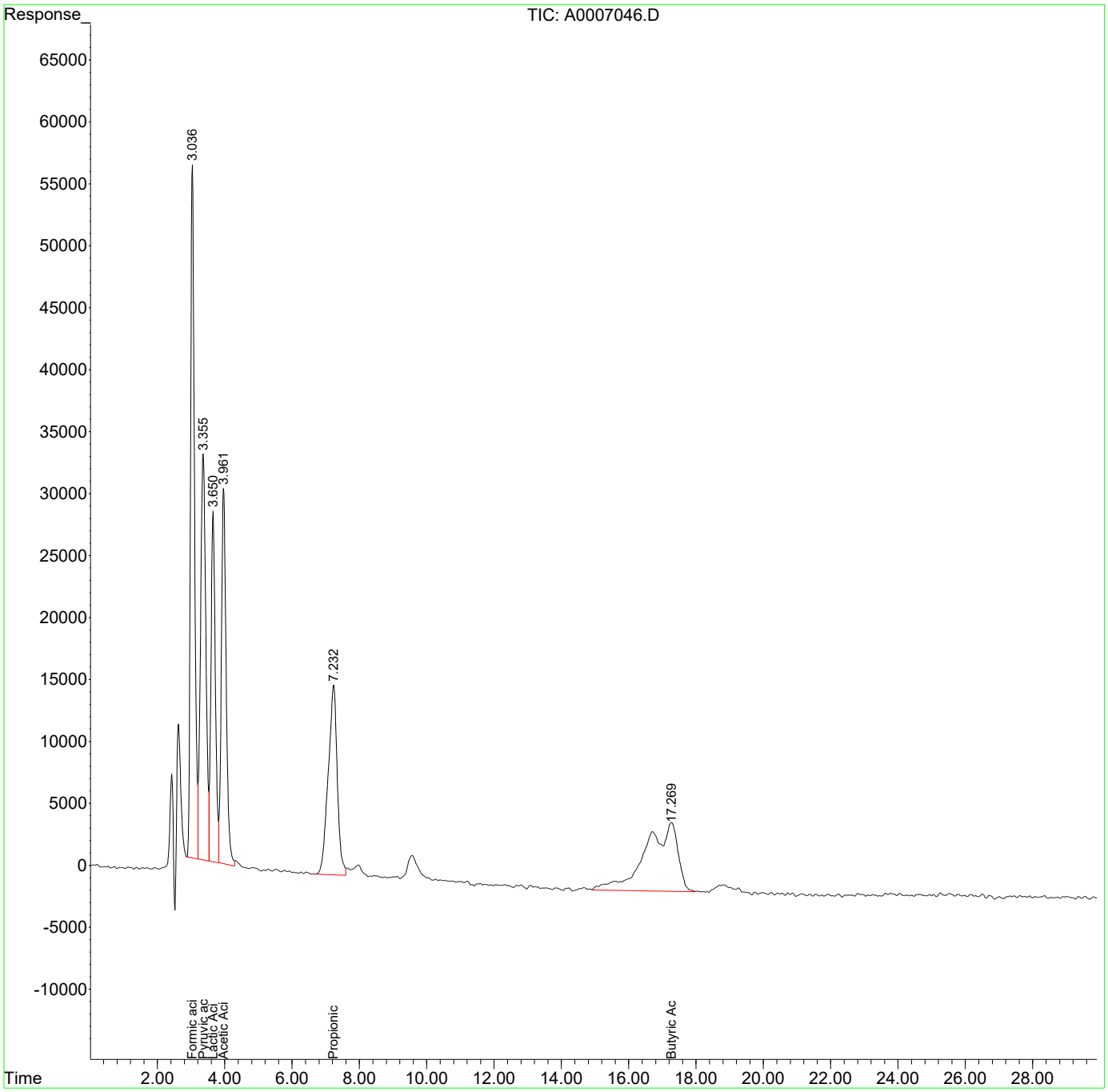
(f)=RT Delta > 1/2 Window (m)=manual int.

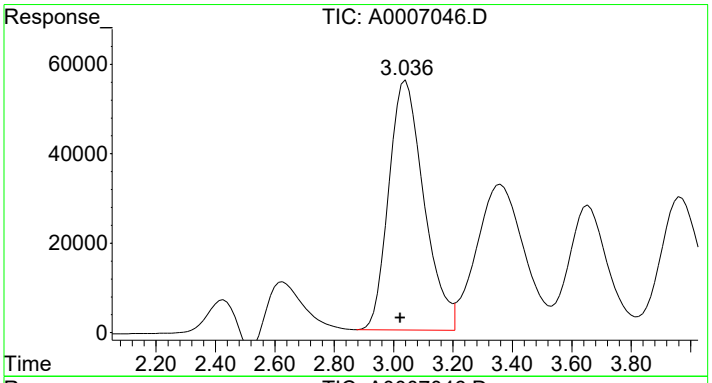
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007046.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 22:19:59
Operator : AFelser
Sample : 5/50 STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:36:58 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Mon Jun 10 14:38:42 2024
Response via : Initial Calibration
Integrator: ChemStation

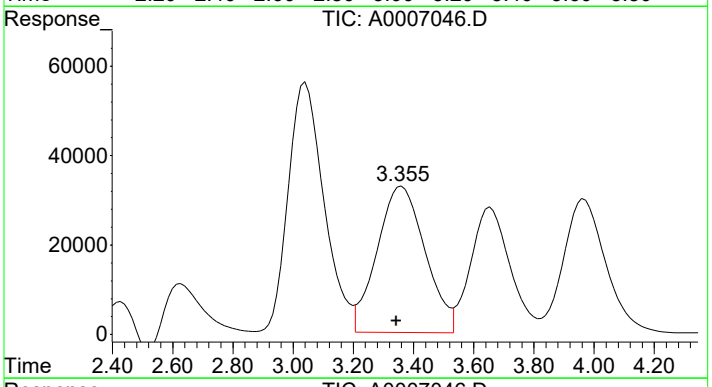
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





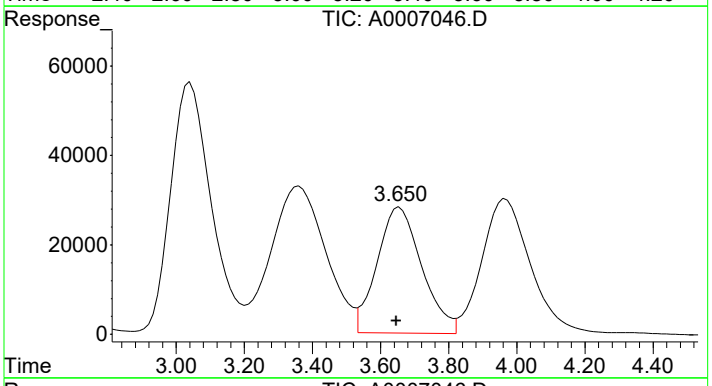
#1 Formic acid

R.T.: 3.041 min
Delta R.T.: 0.019 min
Response: 4586662
Conc: 50.69 ppm



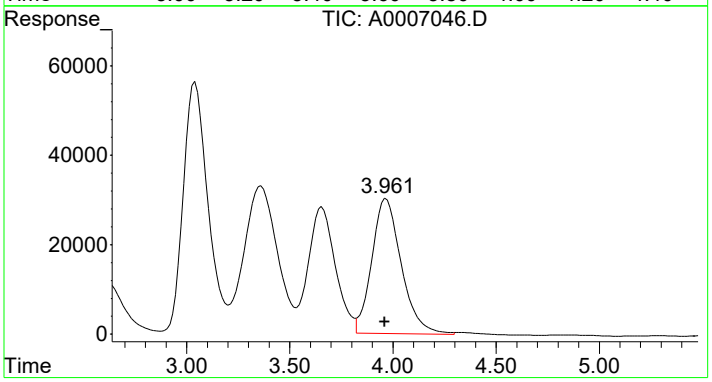
#2 Pyruvic acid

R.T.: 3.361 min
Delta R.T.: 0.018 min
Response: 3638370
Conc: 8.10 ppm



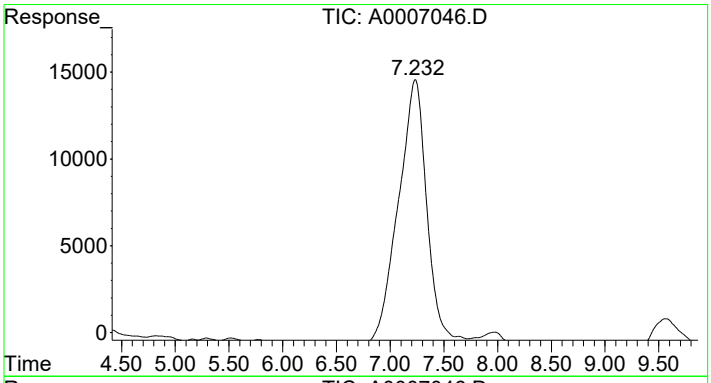
#3 Lactic Acid

R.T.: 3.656 min
Delta R.T.: 0.009 min
Response: 2573305
Conc: 54.71 ppm



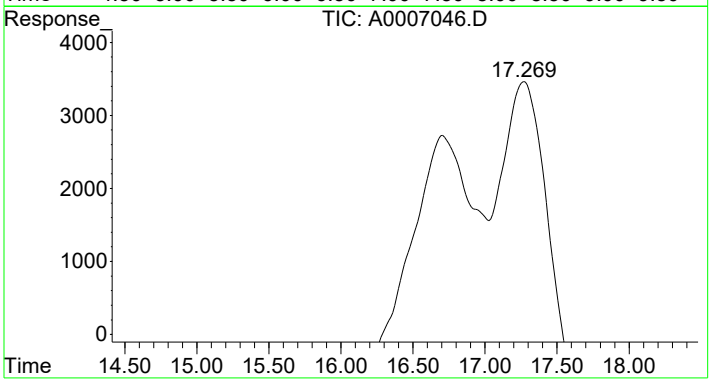
#4 Acetic Acid

R.T.: 3.961 min
Delta R.T.: 0.002 min
Response: 3005389
Conc: 51.45 ppm m



#5 Propionic Acid

R.T.: 7.232 min
Delta R.T.: -0.045 min
Response: 2849528
Conc: 50.85 ppm m



#6 Butyric Acid

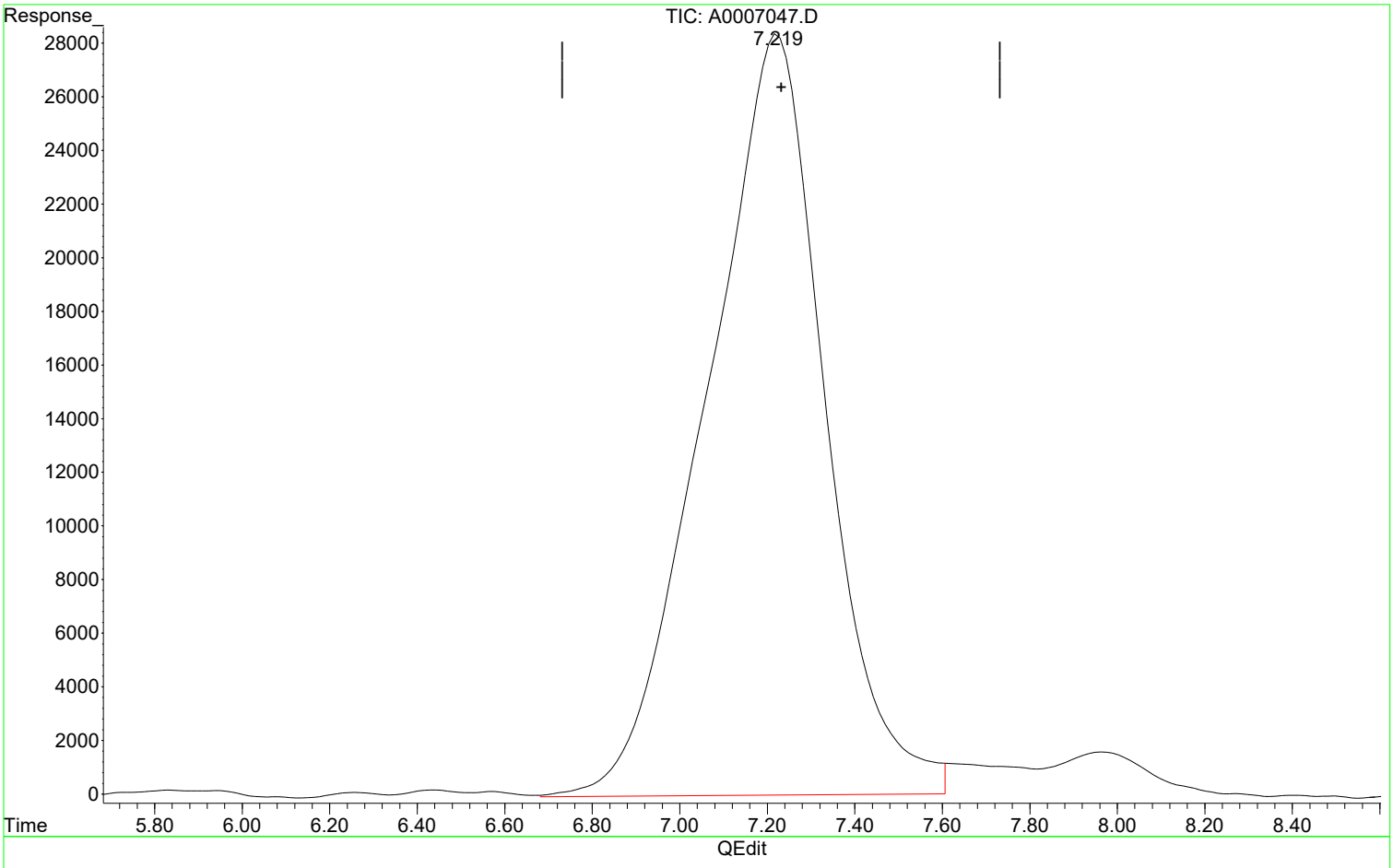
R.T.: 17.269 min
Delta R.T.: -0.231 min
Response: 3746436
Conc: 45.79 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007047.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 22:52:18
Operator : AFelser
Sample : 10/100 STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:22 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.219min 92.975 ppm m

response 5298709

Manual Integration:

After

Poor integration.

06/19/24

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007047.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 22:52:18
Operator : AFelser
Sample : 10/100 STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:22 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
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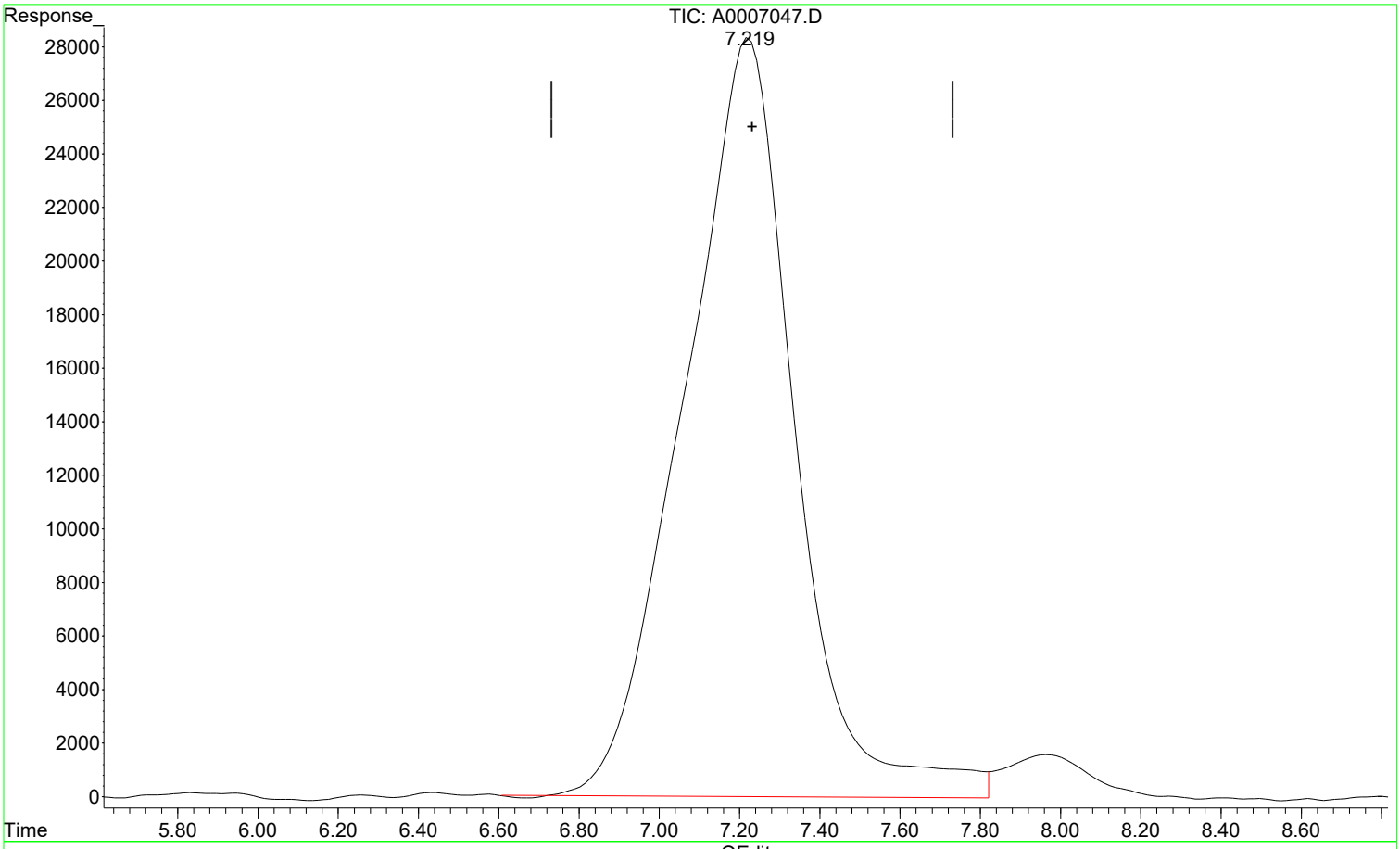
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.224min 94.739 ppm

response 5399252

Manual Integration:

Before

06/19/24

(+) = Expected Retention Time

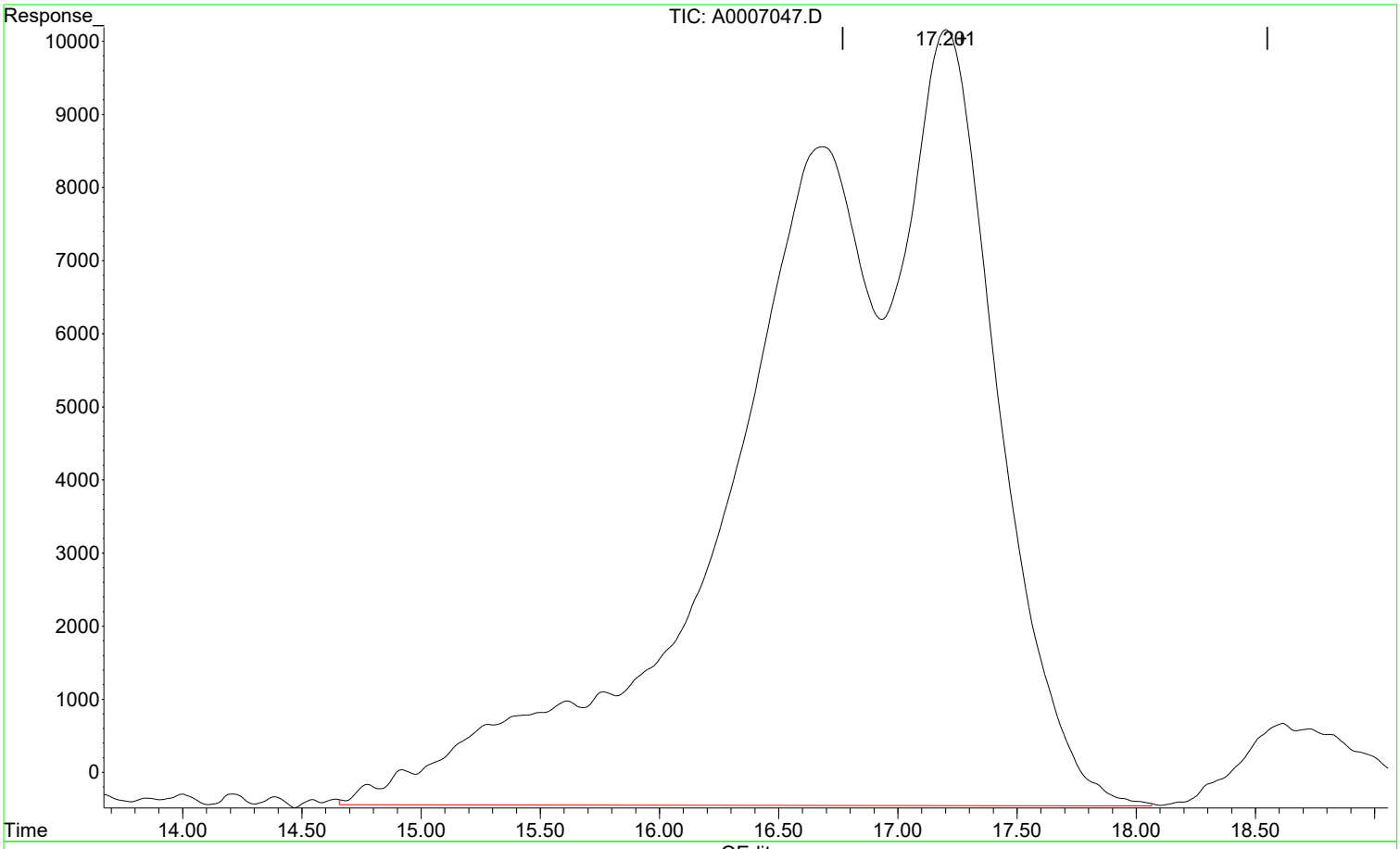
1st AF 06/19/24
2nd BA 06/19/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007047.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 22:52:18
Operator : AFelser
Sample : 10/100 STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:22 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.201min 95.273 ppm m

response 7138690

Manual Integration:

After

Poor integration.

06/19/24

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007047.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 22:52:18
Operator : AFelser
Sample : 10/100 STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:22 2024
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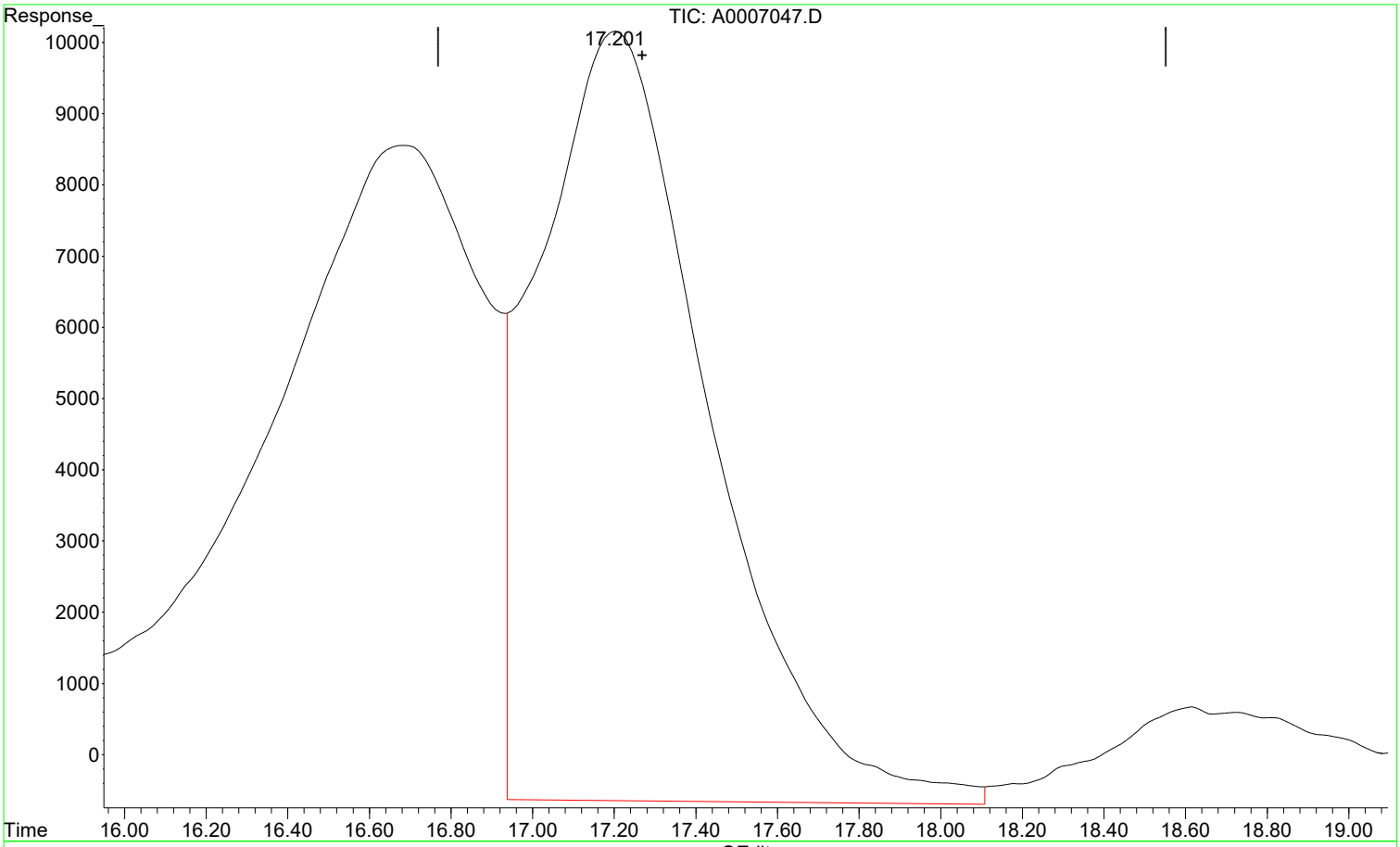
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.207min 42.395 ppm

response 3176576

Manual Integration:

Before

06/19/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007047.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 22:52:18
Operator : AFelser
Sample : 10/100 STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:22 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.040	8543657	93.136	ppm	
2) T	Pyruvic acid	3.360	6802704	9.349	ppm	
3) T	Lactic Acid	3.655	4792469	93.119	ppm	
4) T	Acetic Acid	3.964	5681835	94.527	ppm	
5) T	Propionic Acid	7.219	5298709	92.975	ppm	m
6) T	Butyric Acid	17.201	7138690	95.273	ppm	m

(f)=RT Delta > 1/2 Window (m)=manual int.

1st AF 06/19/24
2nd BA 06/19/24

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007047.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 22:52:18
Operator : AFelser
Sample : 10/100 STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

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Quant Time: Jun 19 07:38:22 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
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Response via : Initial Calibration
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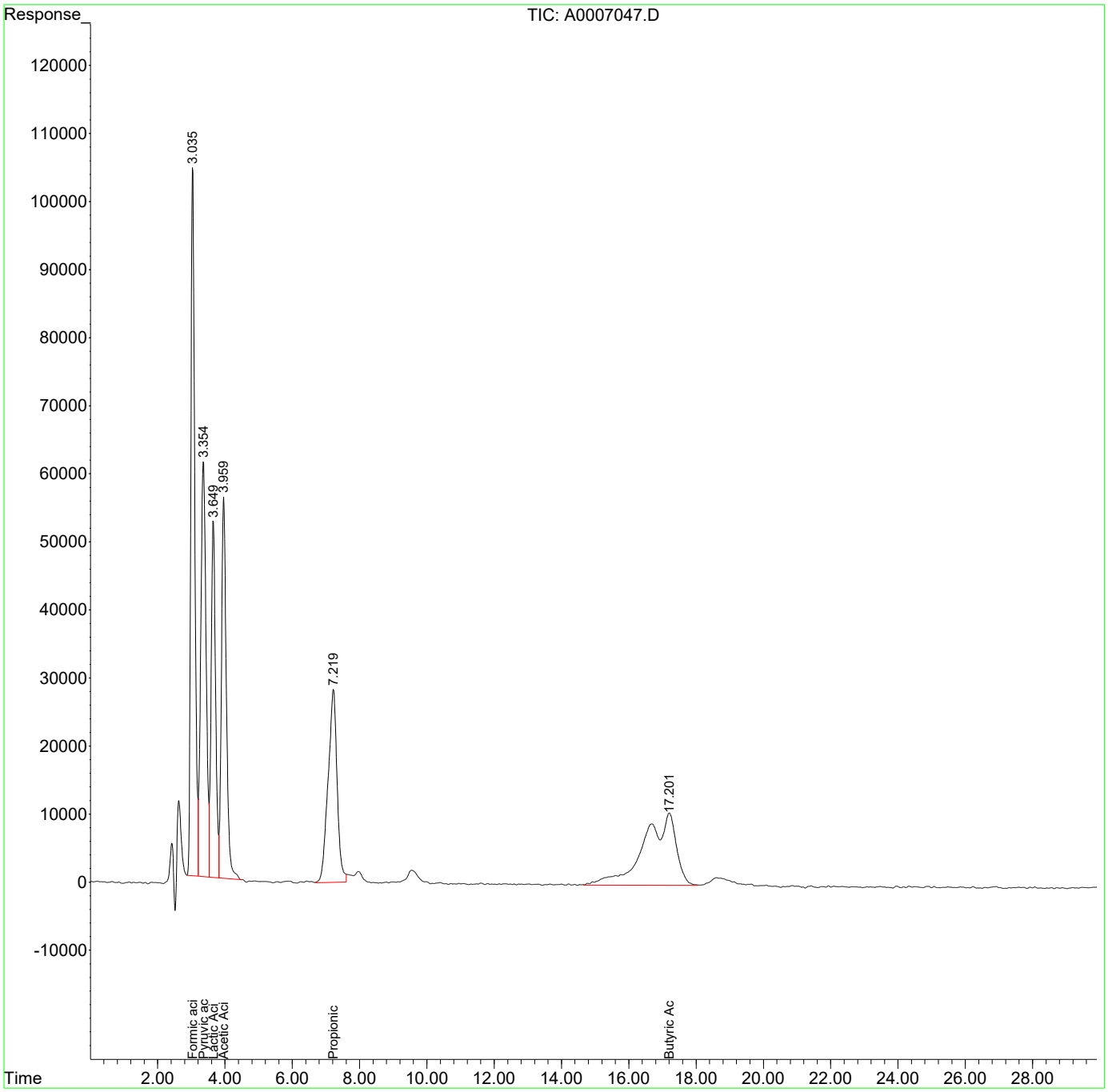
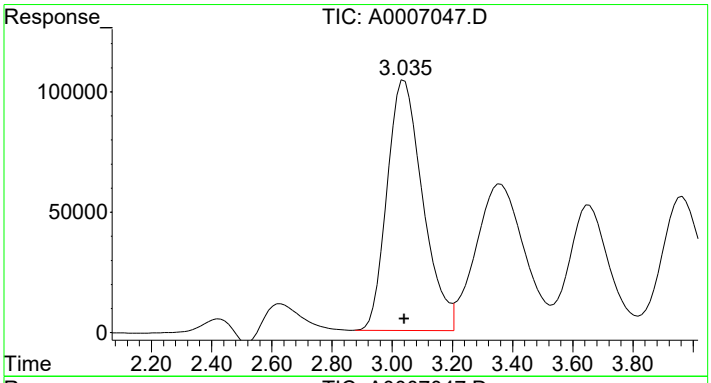
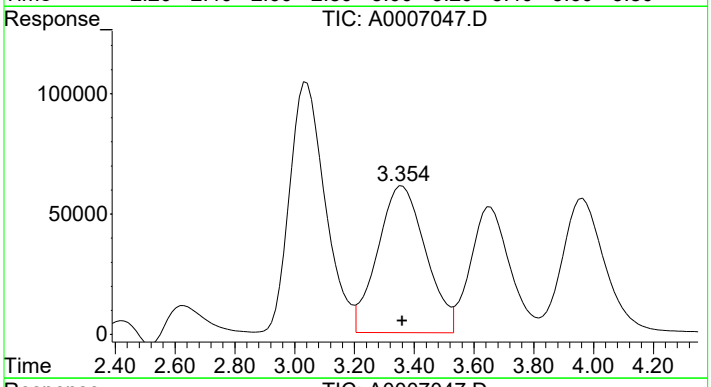
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





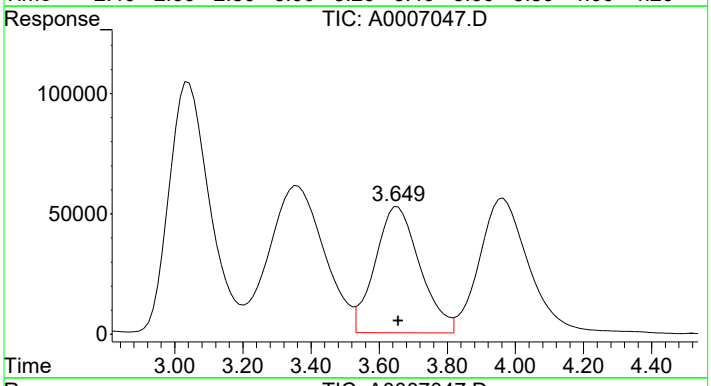
#1 Formic acid

R.T.: 3.040 min
Delta R.T.: 0.000 min
Response: 8543657
Conc: 93.14 ppm



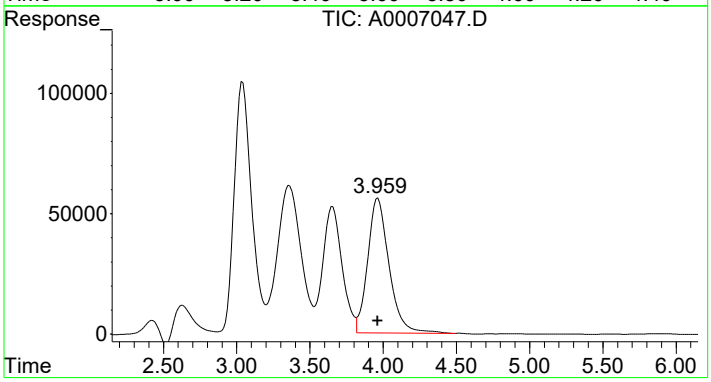
#2 Pyruvic acid

R.T.: 3.360 min
Delta R.T.: 0.000 min
Response: 6802704
Conc: 9.35 ppm



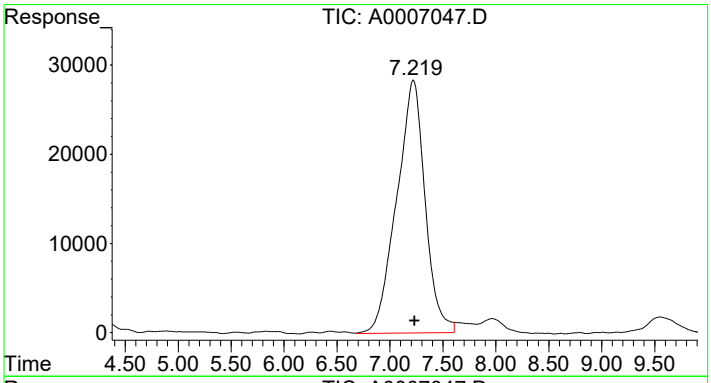
#3 Lactic Acid

R.T.: 3.655 min
Delta R.T.: -0.001 min
Response: 4792469
Conc: 93.12 ppm



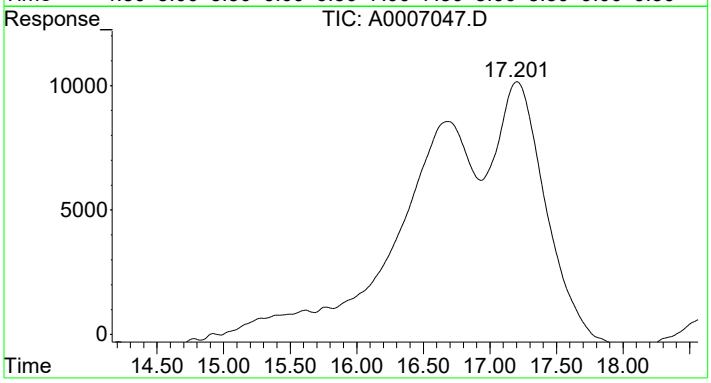
#4 Acetic Acid

R.T.: 3.964 min
Delta R.T.: 0.003 min
Response: 5681835
Conc: 94.53 ppm



#5 Propionic Acid

R.T.: 7.219 min
Delta R.T.: -0.013 min
Response: 5298709
Conc: 92.98 ppm m



#6 Butyric Acid

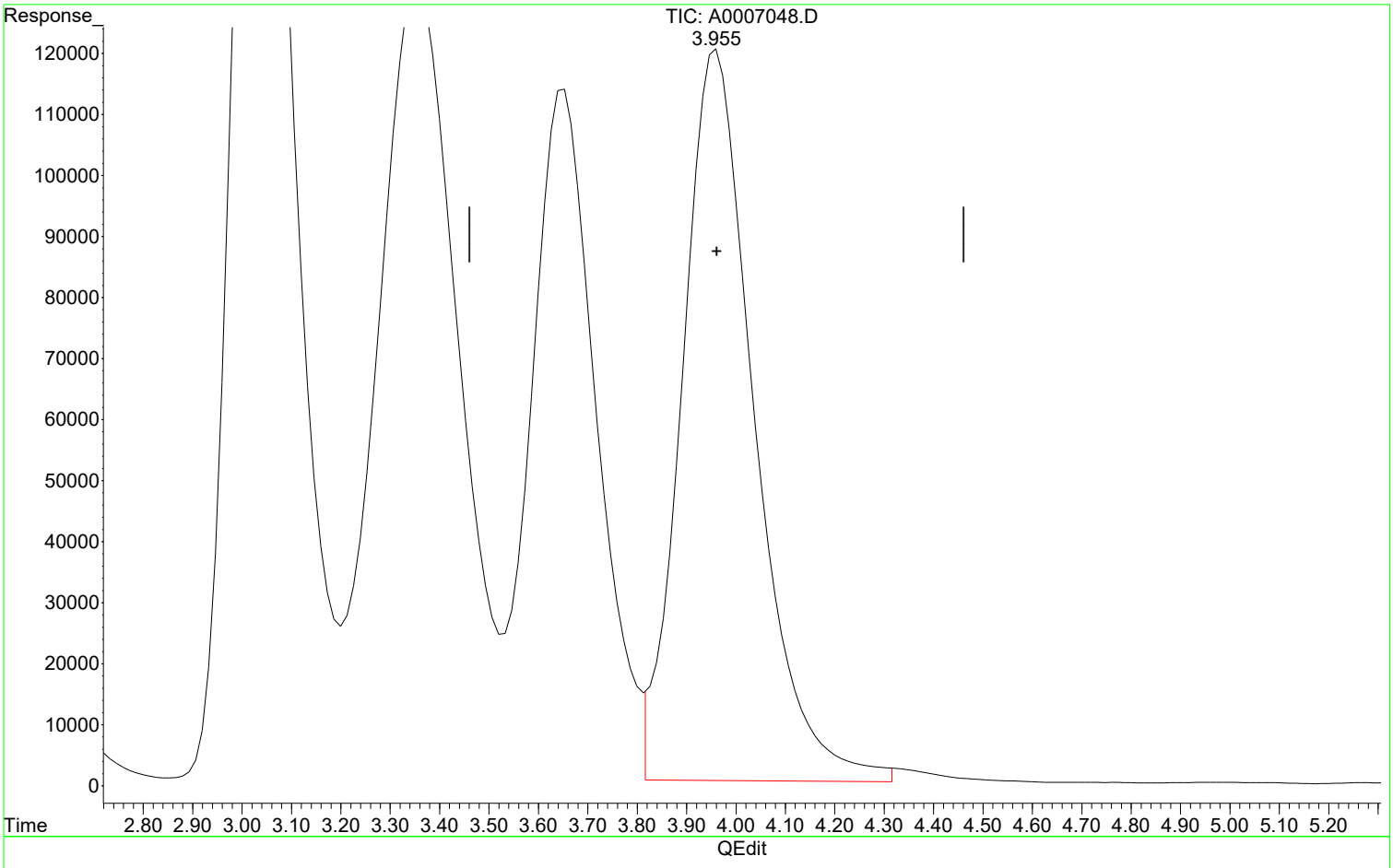
R.T.: 17.201 min
Delta R.T.: -0.068 min
Response: 7138690
Conc: 95.27 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007048.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 23:24:40
Operator : AFelser
Sample : 20/200 STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:24 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.955min 202.862 ppm m

response 12193589

Manual Integration:

After

Poor integration.

06/19/24

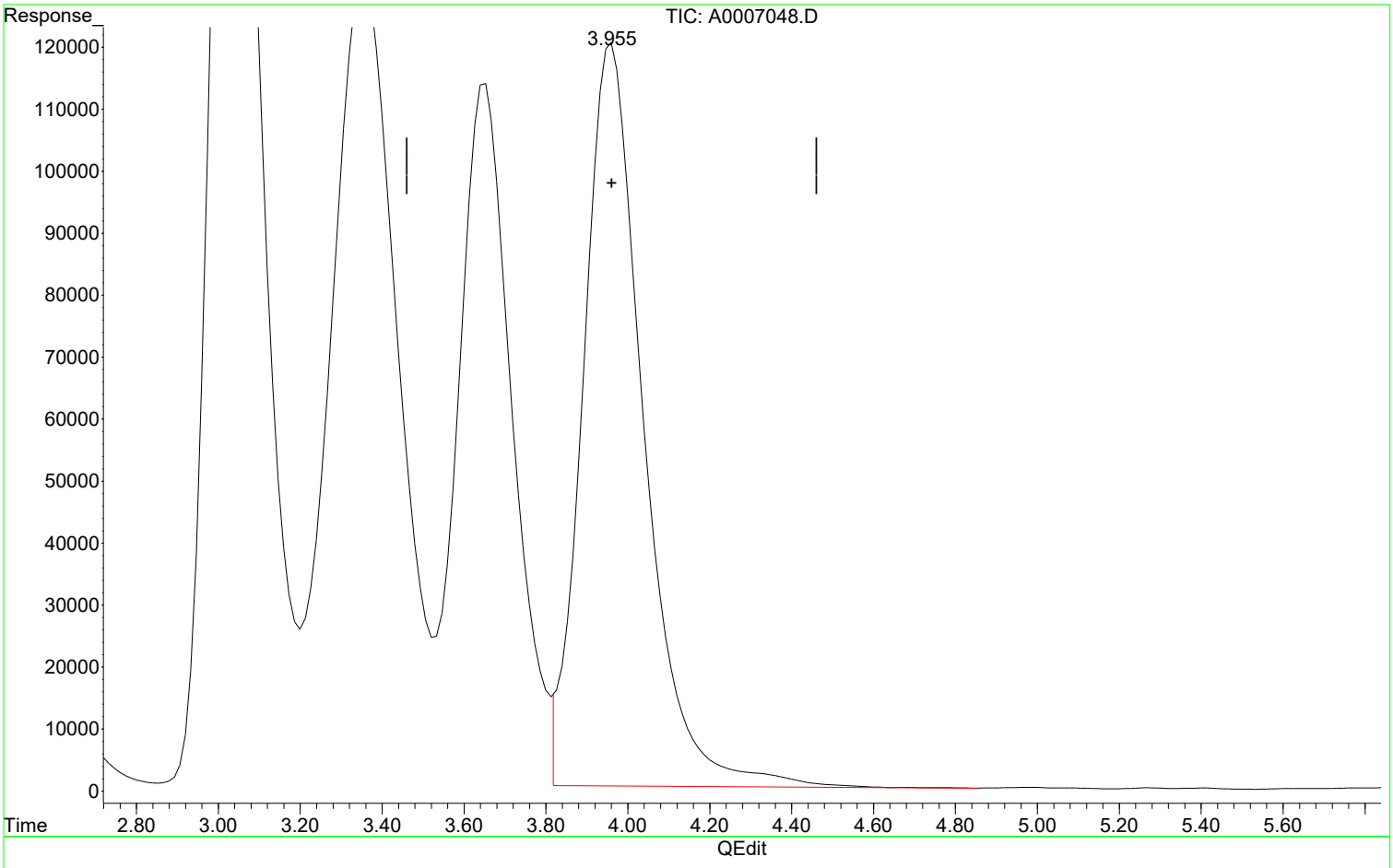
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007048.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 23:24:40
Operator : AFelser
Sample : 20/200 STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:24 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.961min 206.229 ppm

response 12395984

Manual Integration:

Before

06/19/24

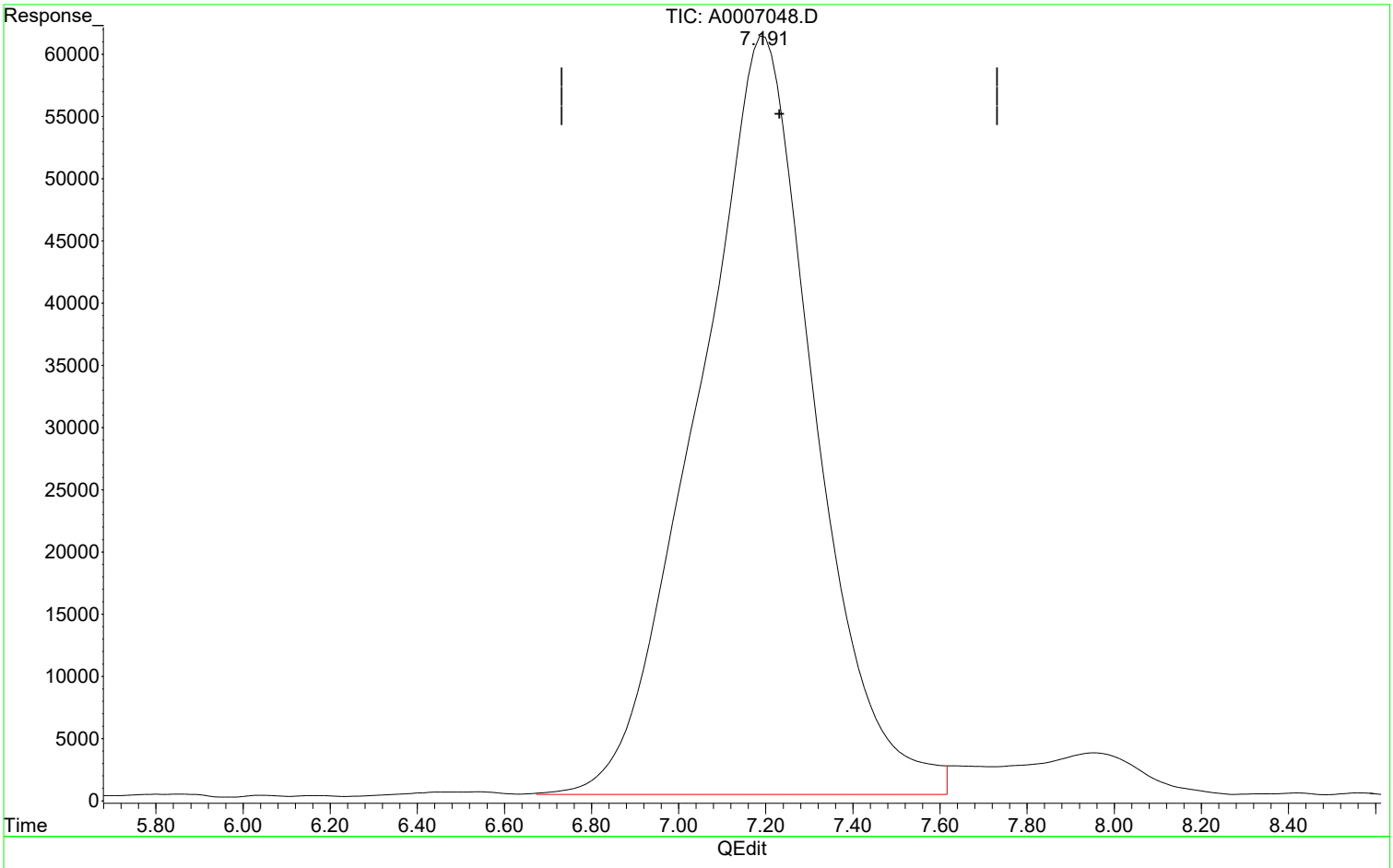
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007048.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 23:24:40
Operator : AFelser
Sample : 20/200 STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:24 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.191min 198.579 ppm m

response 11317151

Manual Integration:

After

Poor integration.

06/19/24

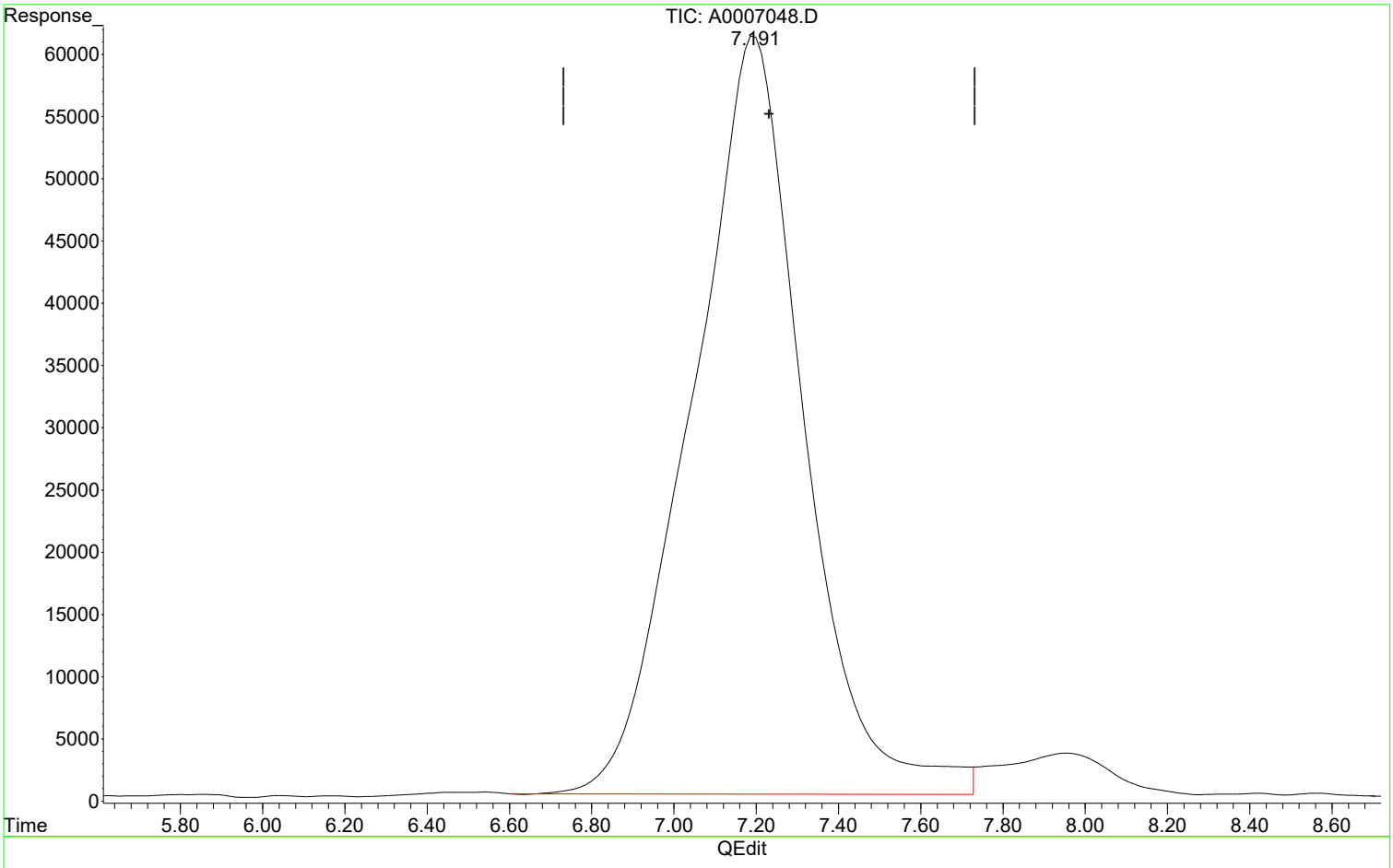
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007048.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 23:24:40
Operator : AFelser
Sample : 20/200 STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:24 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.197min 200.410 ppm

response 11421477

Manual Integration:

Before

06/19/24

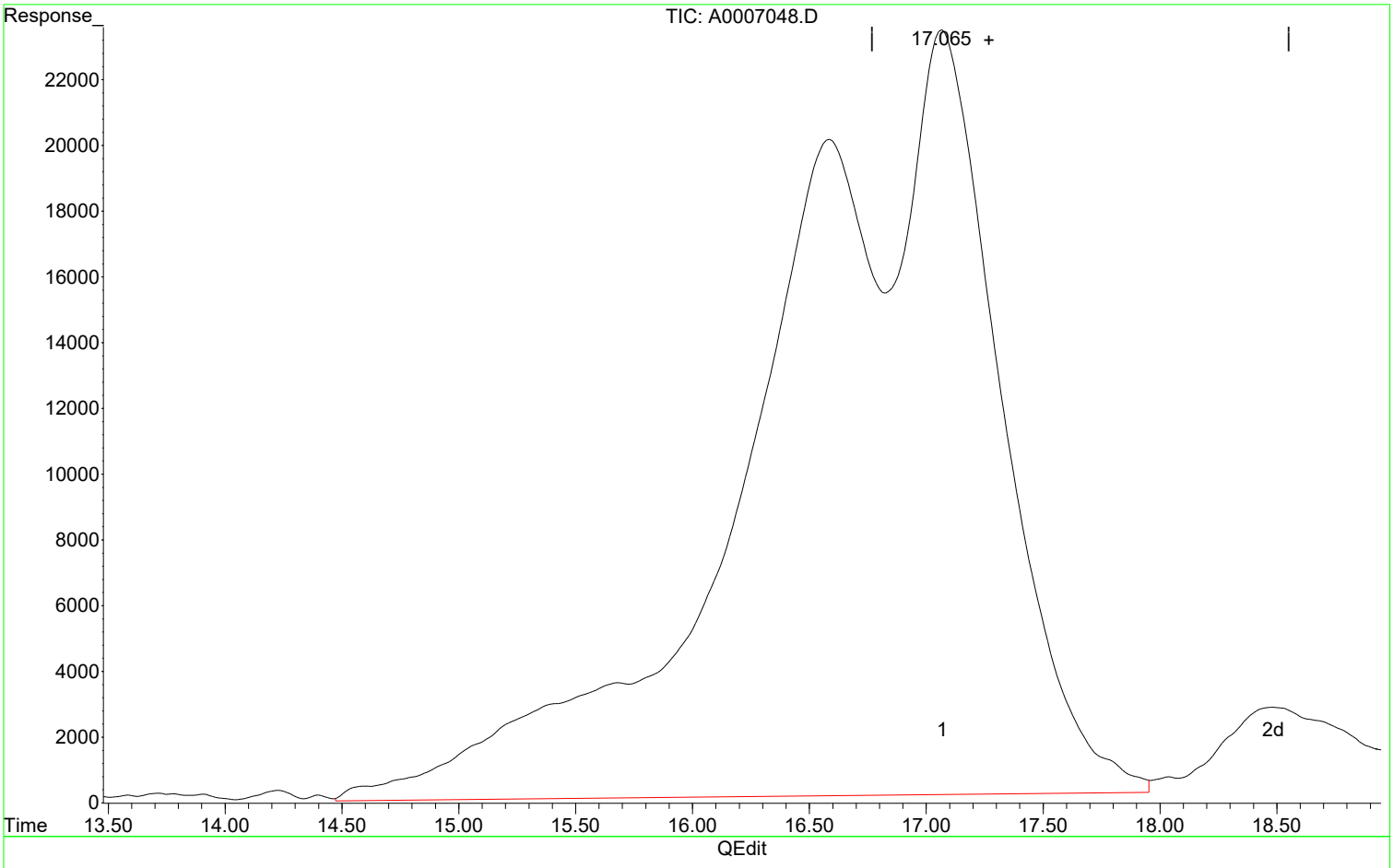
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007048.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 23:24:40
Operator : AFelser
Sample : 20/200 STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:24 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.065min 210.109 ppm m

response 15743175

Manual Integration:

After

Poor integration.

06/19/24

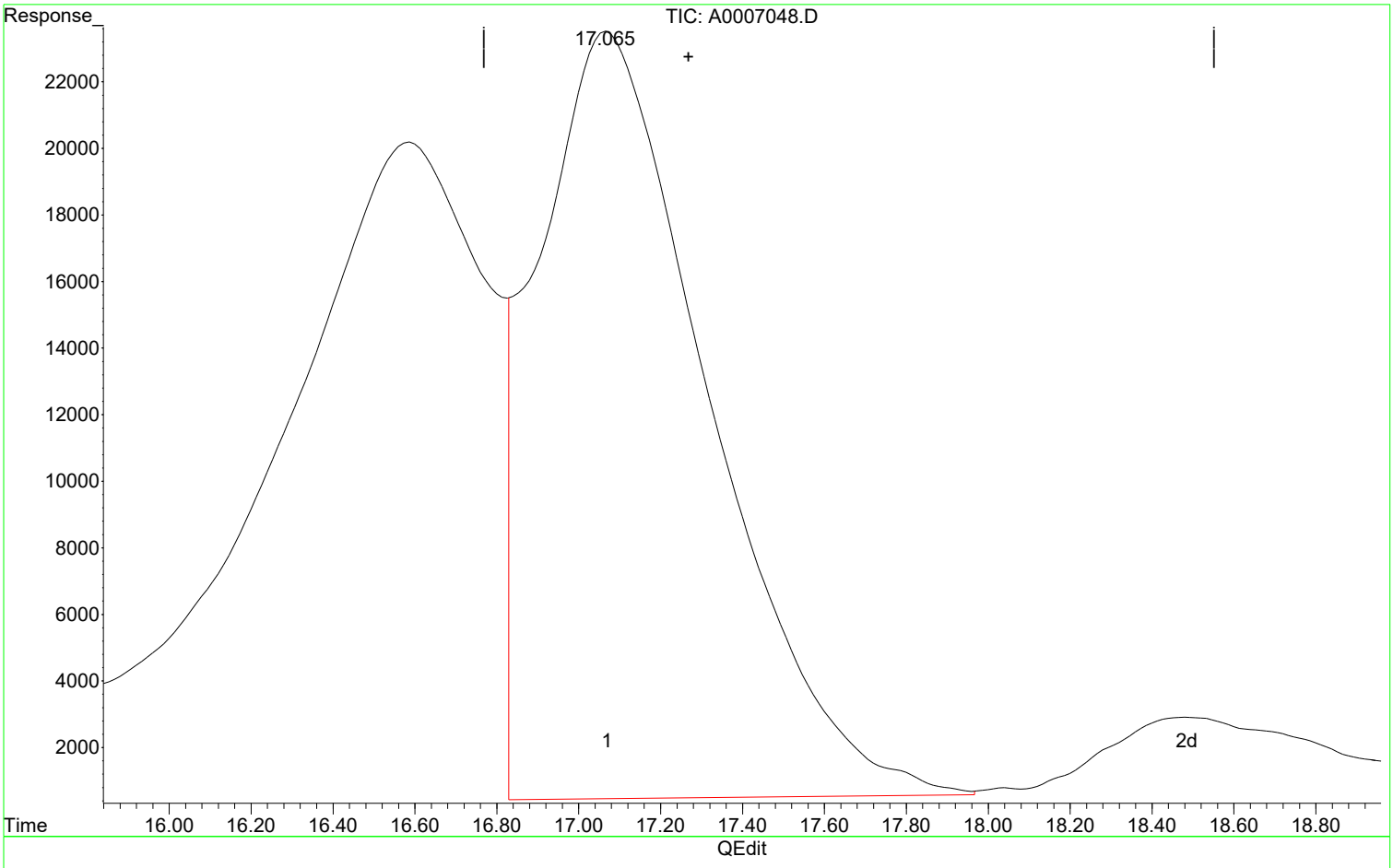
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007048.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 23:24:40
Operator : AFelser
Sample : 20/200 STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:24 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.070min 90.532 ppm

response 6783469

Manual Integration:

Before

06/19/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007048.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 23:24:40
Operator : AFelser
Sample : 20/200 STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:24 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.039	18369150	200.245	ppm	
2) T	Pyruvic acid	3.358	14676035	20.168	ppm	
3) T	Lactic Acid	3.652	10413958	202.346	ppm	
4) T	Acetic Acid	3.955	12193589	202.862	ppm	m
5) T	Propionic Acid	7.191	11317151	198.579	ppm	m
6) T	Butyric Acid	17.065	15743175	210.109	ppm	m

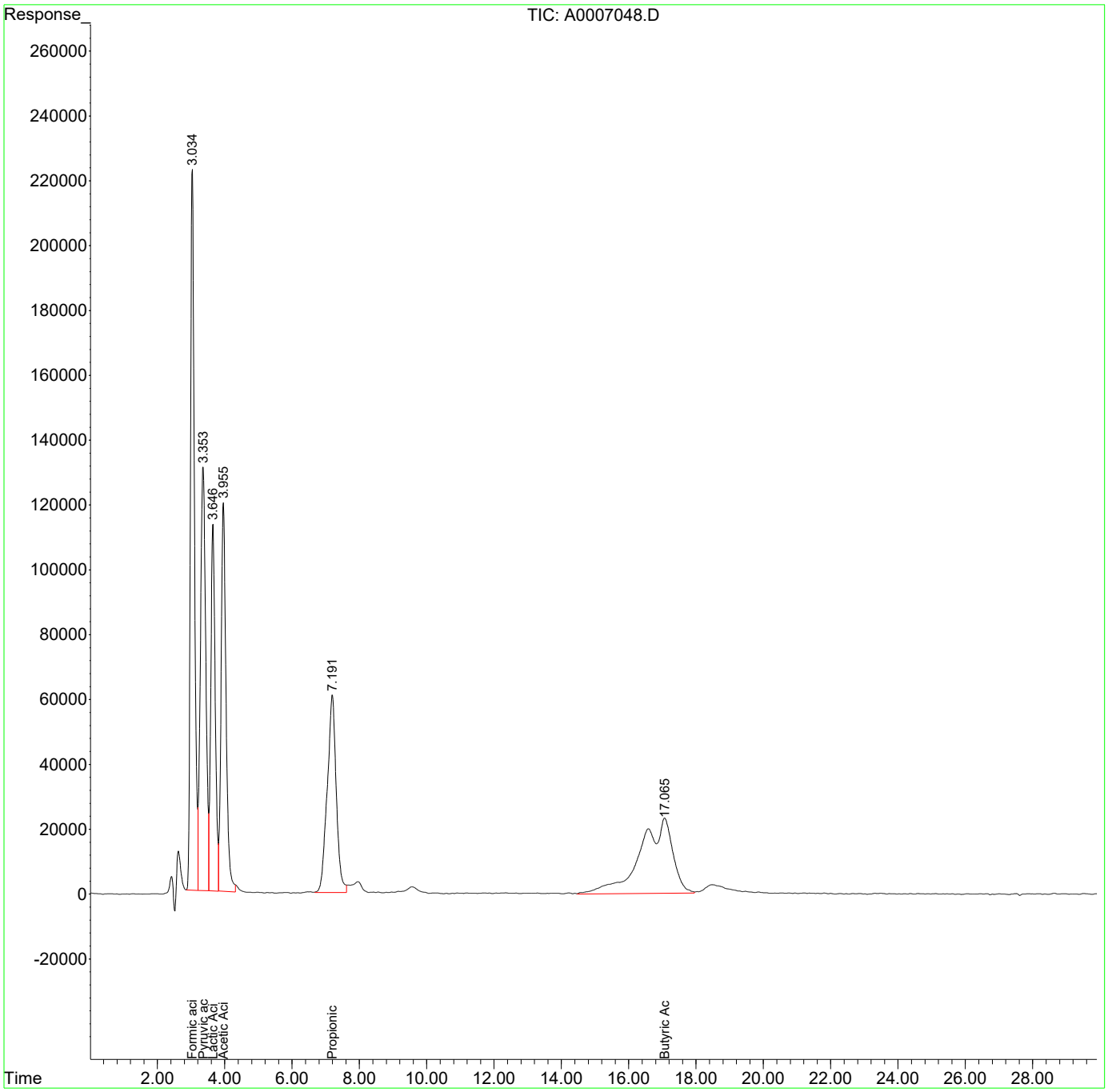
(f)=RT Delta > 1/2 Window (m)=manual int.

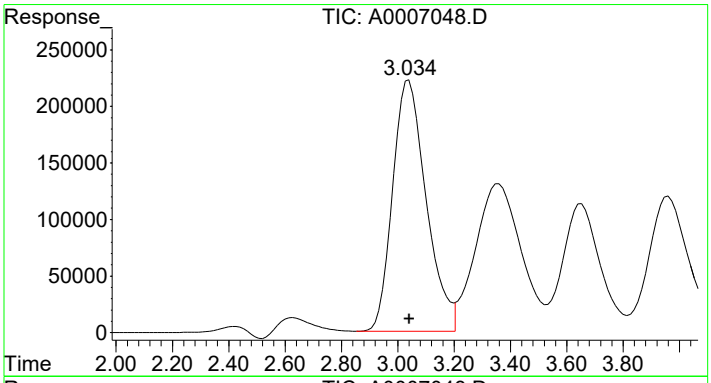
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007048.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 23:24:40
Operator : AFelser
Sample : 20/200 STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:38:24 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:37:43 2024
Response via : Initial Calibration
Integrator: ChemStation

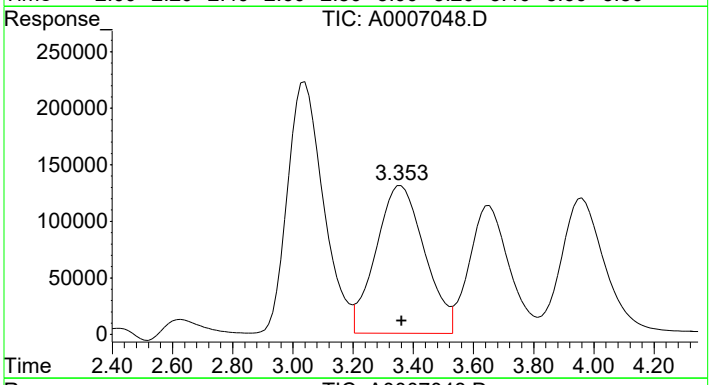
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





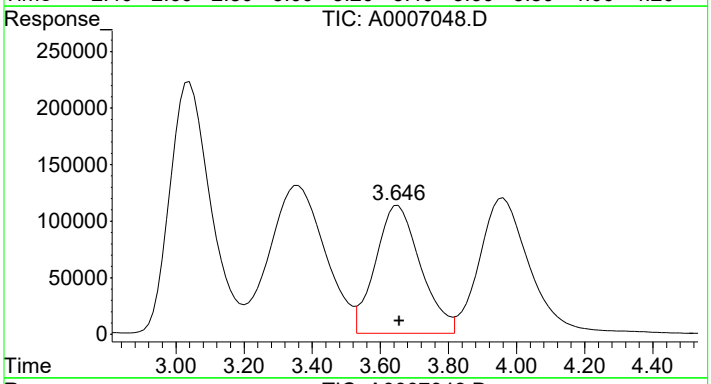
#1 Formic acid

R.T.: 3.039 min
Delta R.T.: -0.002 min
Response: 18369150
Conc: 200.25 ppm



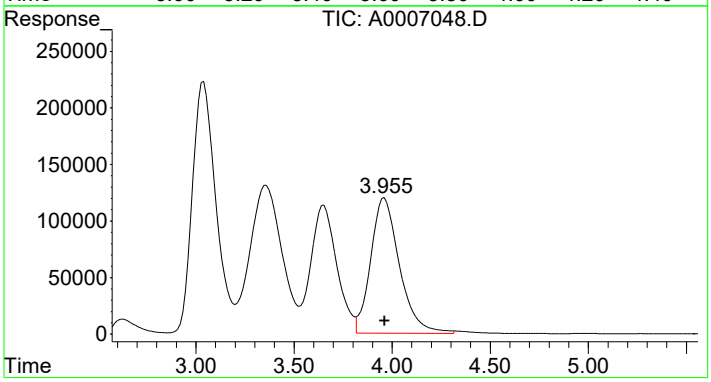
#2 Pyruvic acid

R.T.: 3.358 min
Delta R.T.: -0.003 min
Response: 14676035
Conc: 20.17 ppm



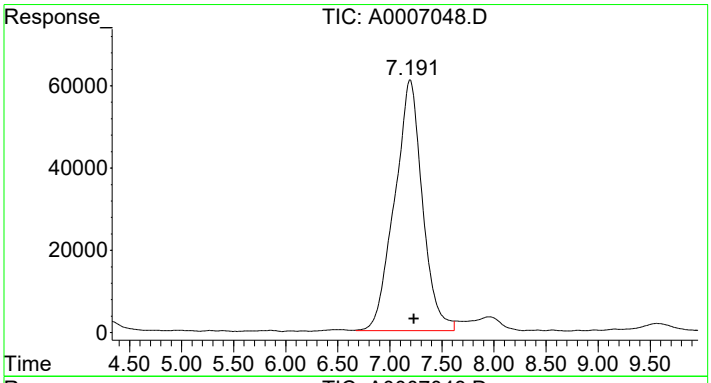
#3 Lactic Acid

R.T.: 3.652 min
Delta R.T.: -0.004 min
Response: 10413958
Conc: 202.35 ppm



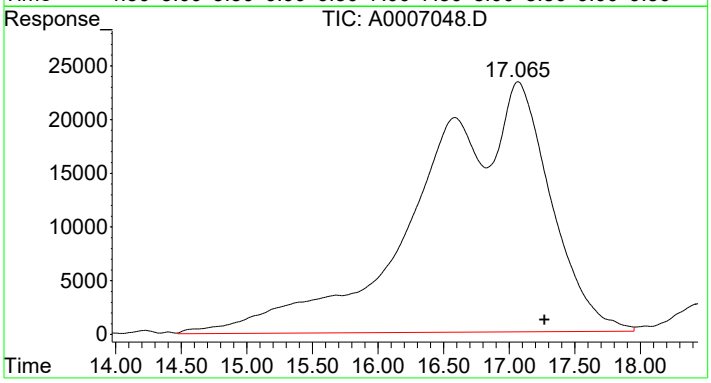
#4 Acetic Acid

R.T.: 3.955 min
Delta R.T.: -0.006 min
Response: 12193589
Conc: 202.86 ppm m



#5 Propionic Acid

R.T.: 7.191 min
Delta R.T.: -0.041 min
Response: 11317151
Conc: 198.58 ppm m



#6 Butyric Acid

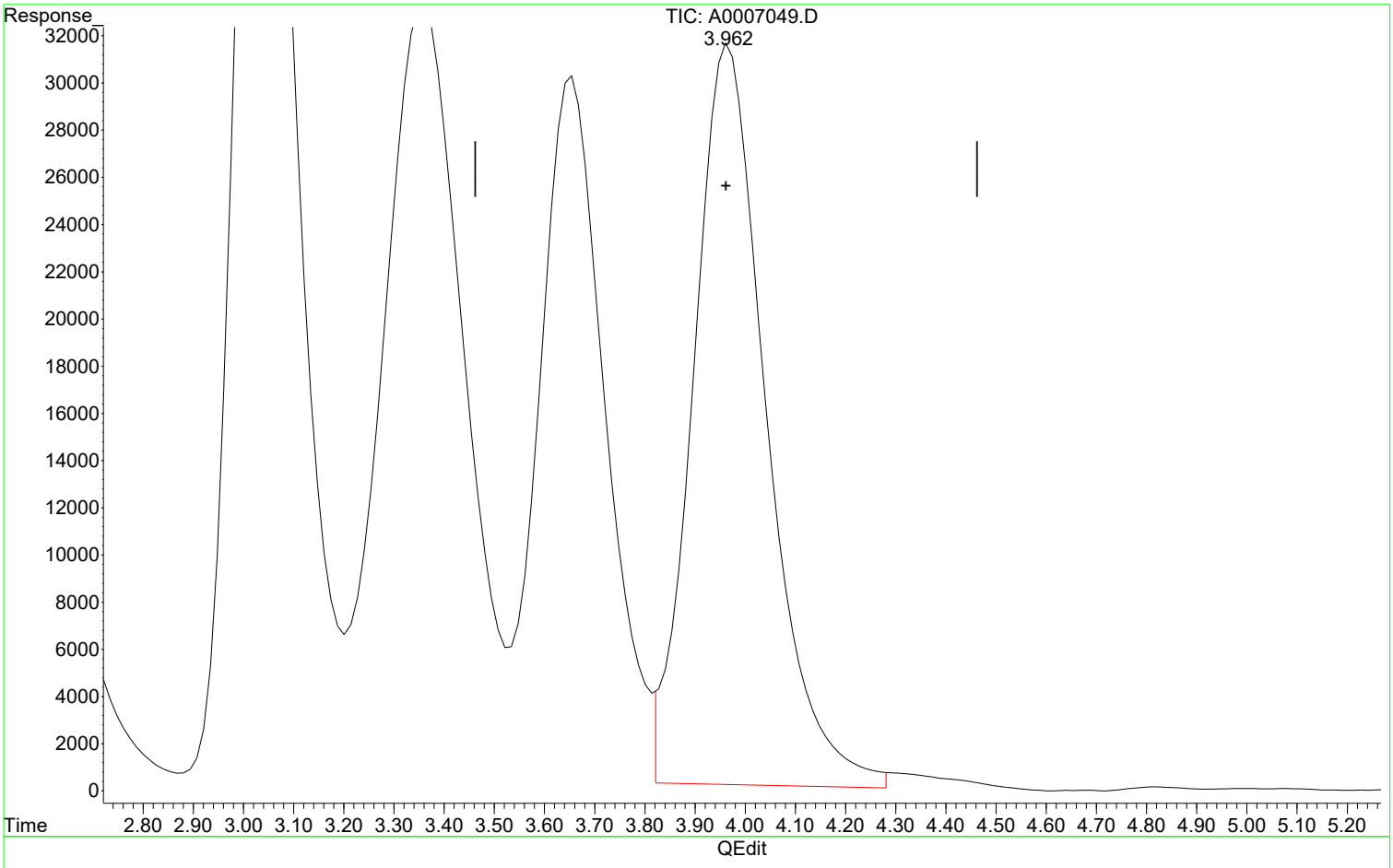
R.T.: 17.065 min
Delta R.T.: -0.204 min
Response: 15743175
Conc: 210.11 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007049.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 23:56:59
Operator : AFelser
Sample : ICV
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:44:43 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:44:29 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.962min 54.996 ppm m

response 3174479

Manual Integration:

After

Poor integration.

06/19/24

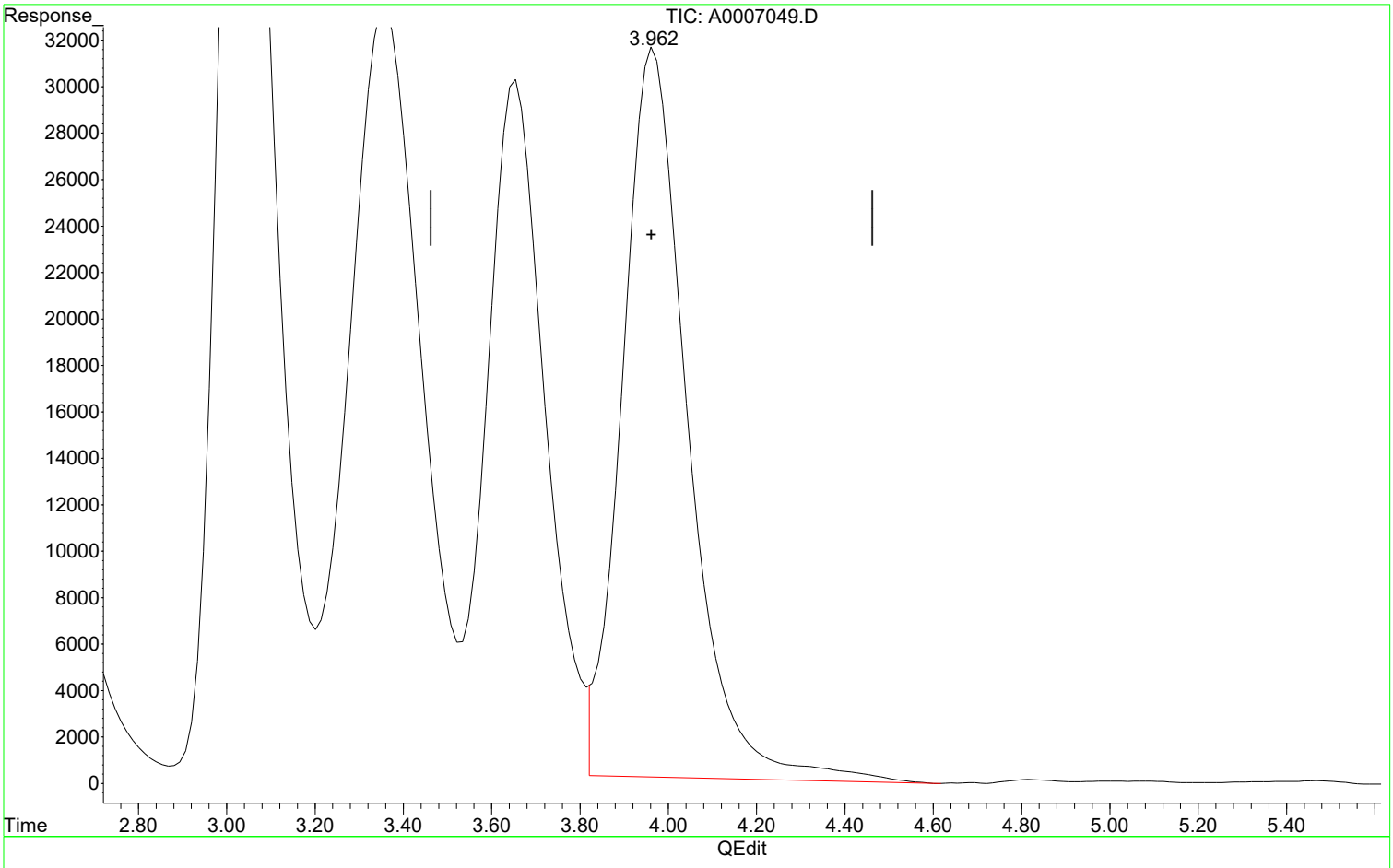
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007049.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 23:56:59
Operator : AFelser
Sample : ICV
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:44:43 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:44:29 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

3.967min 56.355 ppm

response 3252943

Manual Integration:

Before

06/19/24

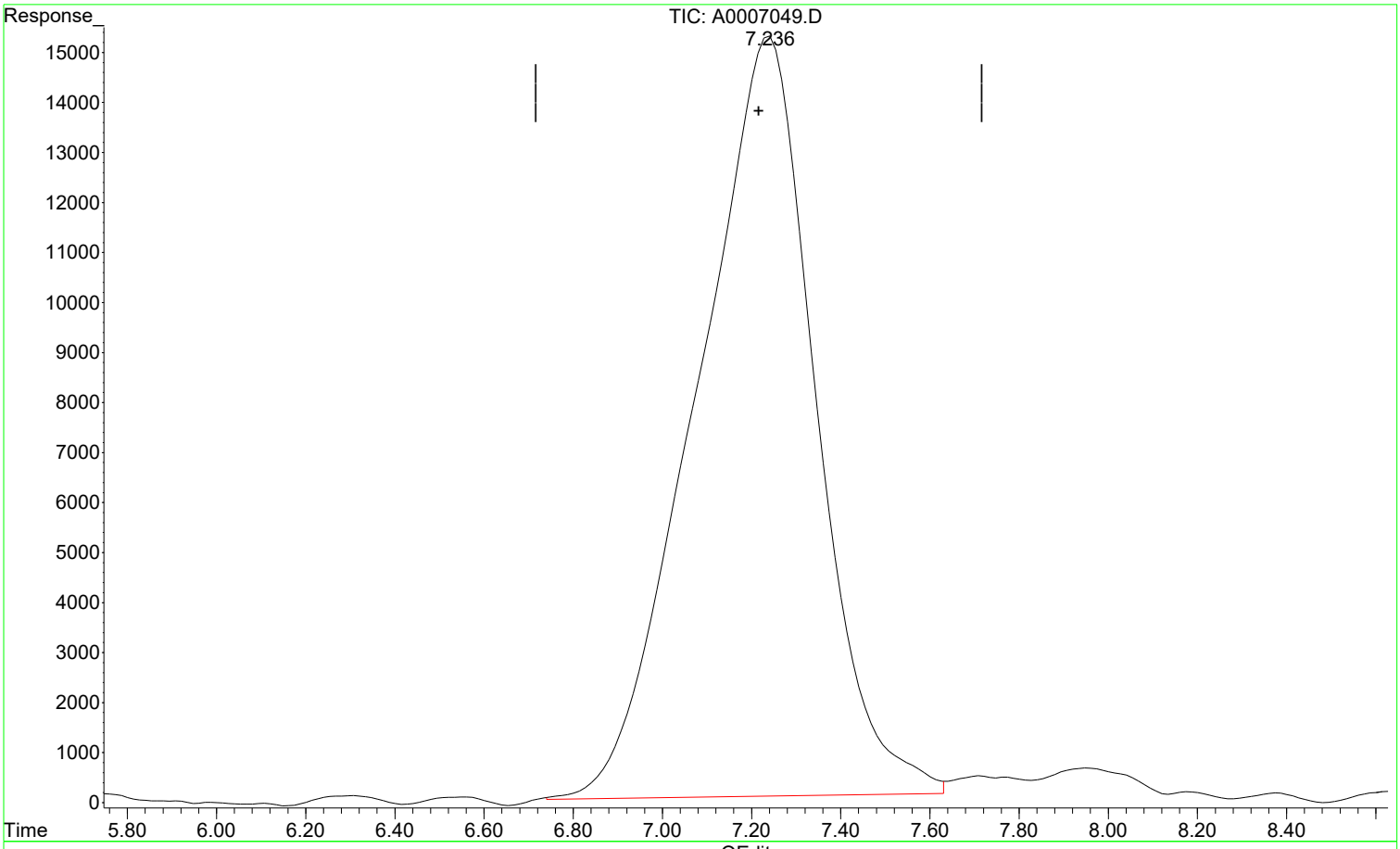
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007049.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 23:56:59
Operator : AFelser
Sample : ICV
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:44:43 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:44:29 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.236min 47.773 ppm m

response 2803014

Manual Integration:

After

Poor integration.

06/19/24

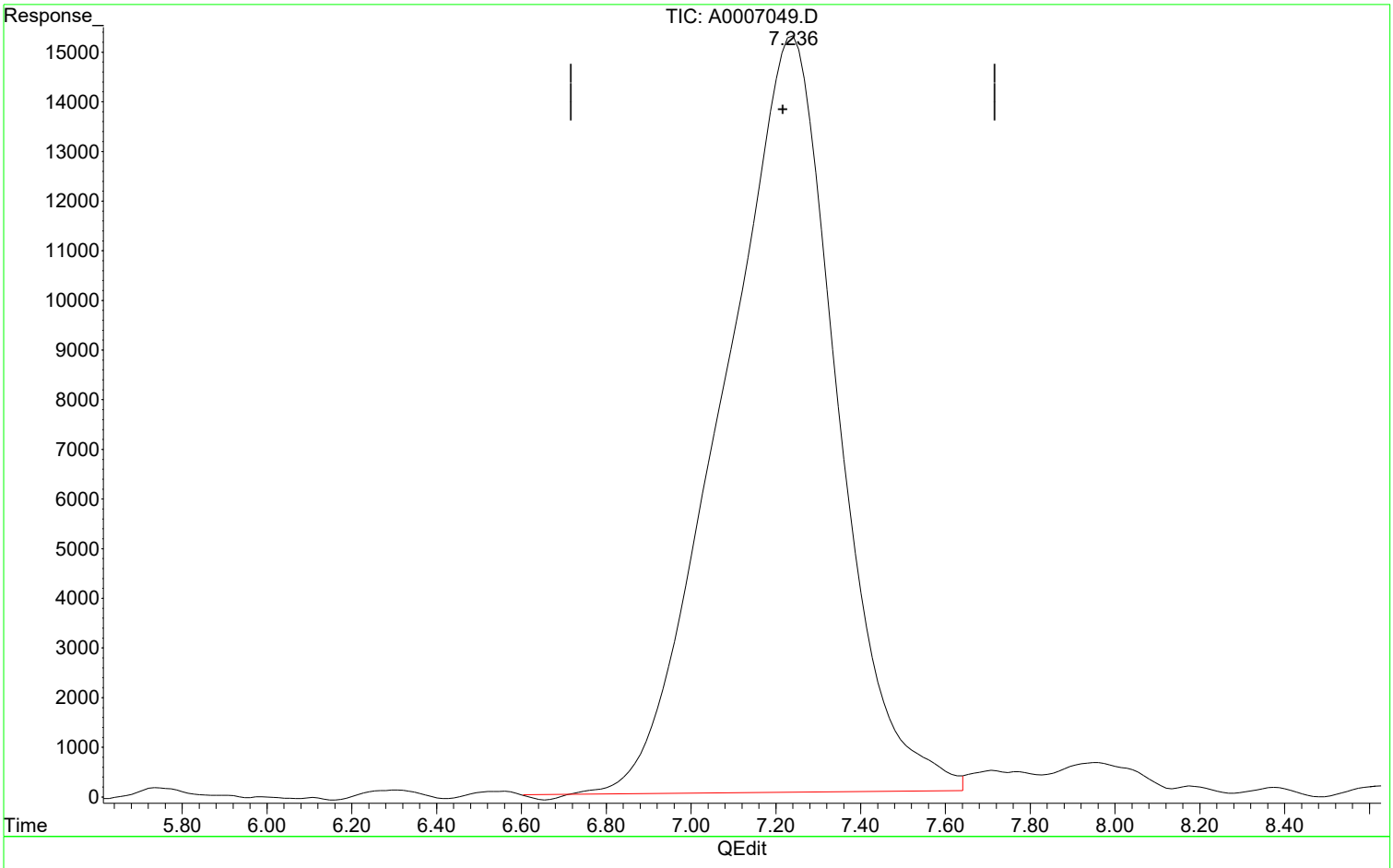
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007049.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 23:56:59
Operator : AFelser
Sample : ICV
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:44:43 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:44:29 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.241min 47.985 ppm

response 2815496

Manual Integration:

Before

06/19/24

(+) = Expected Retention Time

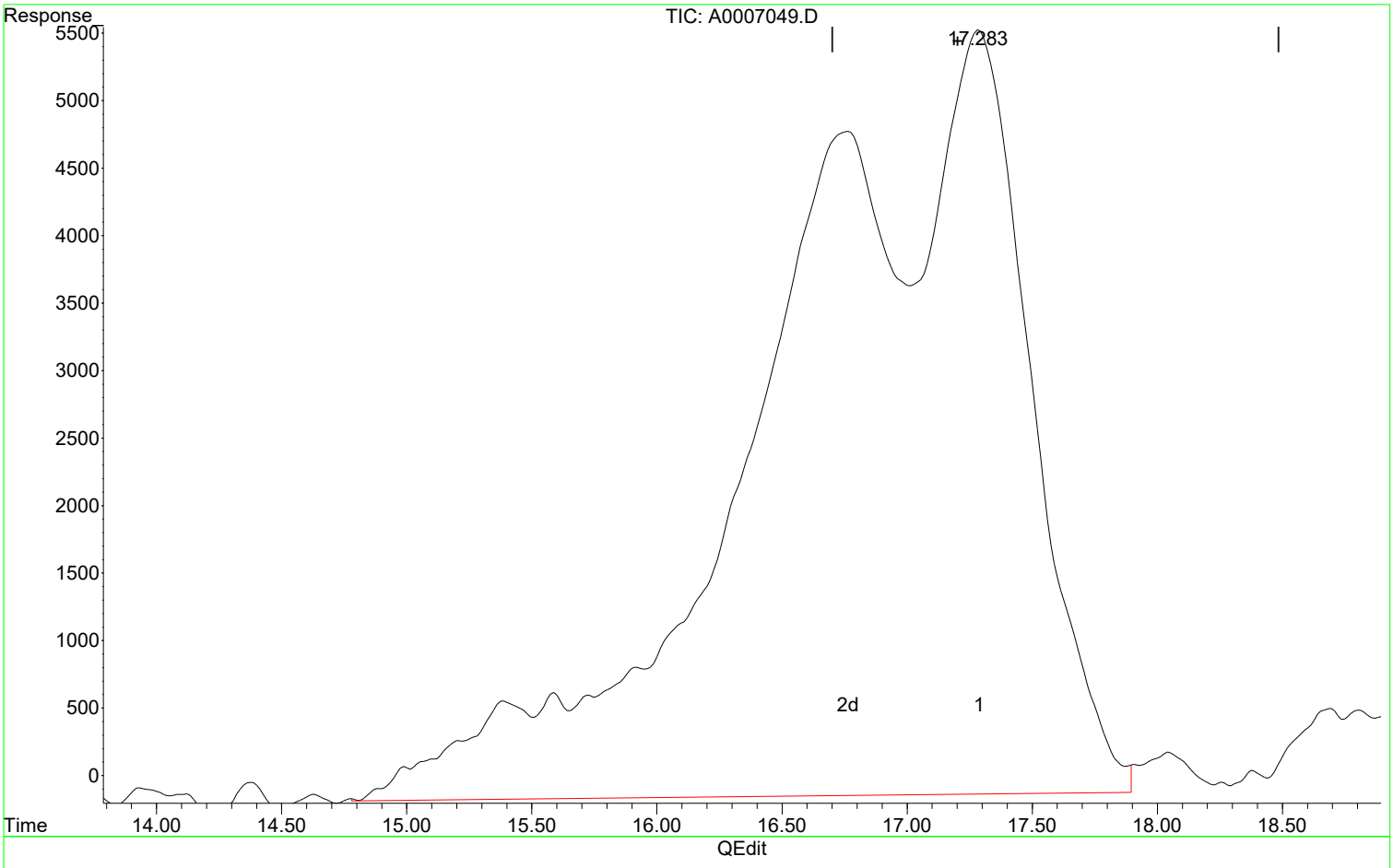
1st AF 06/19/24
2nd BA 06/19/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007049.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 23:56:59
Operator : AFelser
Sample : ICV
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:44:43 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:44:29 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.283min 51.089 ppm m

response 3942184

Manual Integration:

After

Poor integration.

06/19/24

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007049.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 23:56:59
Operator : AFelser
Sample : ICV
Misc :
ALS Vial : 11 Sample Multiplier: 1

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Quant Time: Jun 19 07:44:43 2024
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Quant Title : organic acids
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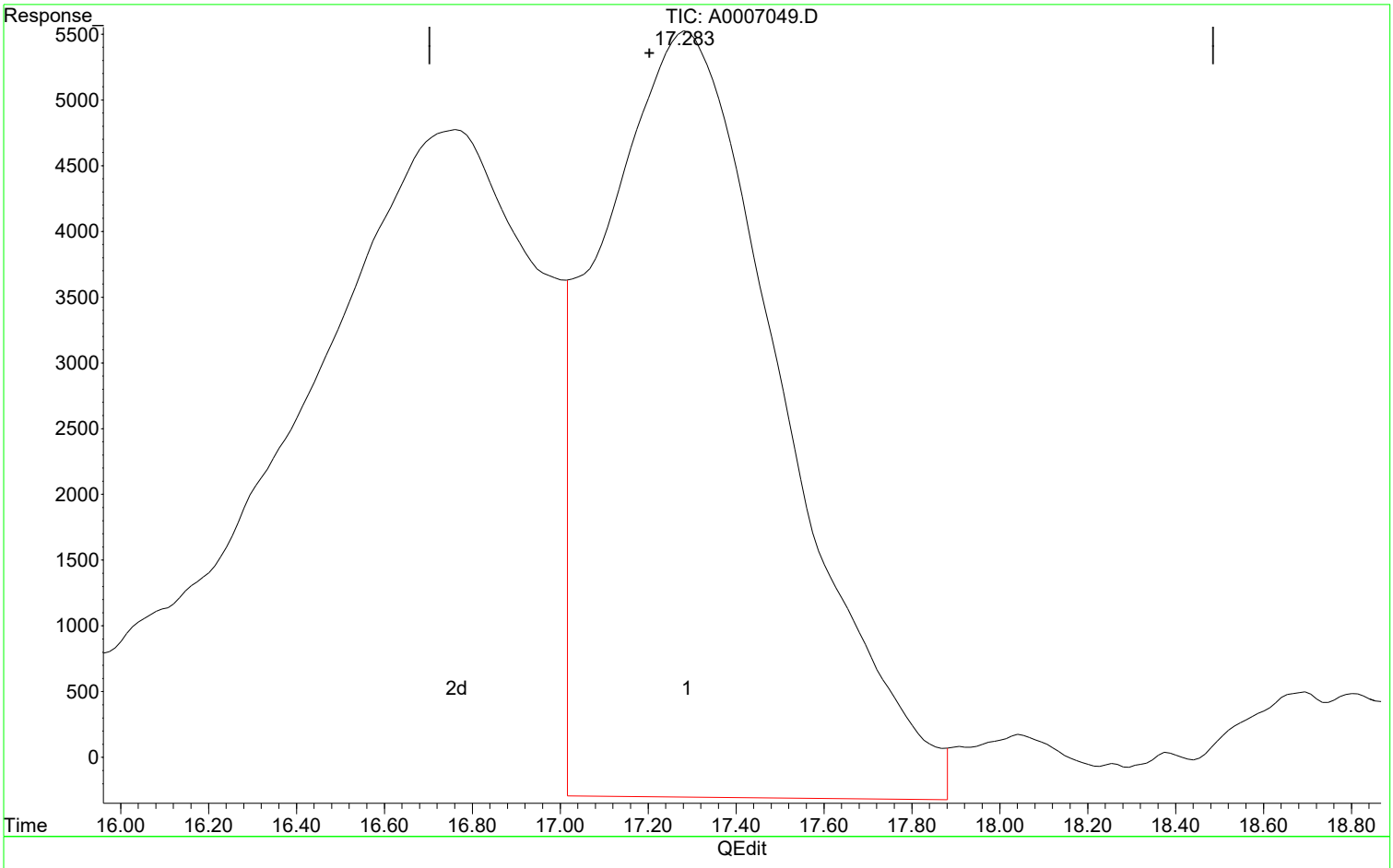
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

17.288min 22.124 ppm

response 1707133

Manual Integration:

Before

06/19/24

(+) = Expected Retention Time

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\HPLC06\Data\061824\
Data File : A0007049.D
Signal(s) : dad1A.ch
Acq On : 18-Jun-2024, 23:56:59
Operator : AFelser
Sample : ICV
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 19 07:44:43 2024
Quant Method : I:\ACQUDATA\HPLC06\Methods\6-MA061824.M
Quant Title : organic acids
QLast Update : Wed Jun 19 07:44:29 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 t	Formic acid	50.000	52.824	-5.6	101	0.00
2 T	Pyruvic acid	5.000	5.519	-10.4	100	0.00
3 T	Lactic Acid	50.000	57.124	-14.2	106	0.00
4 T	Acetic Acid	50.000	54.996	-10.0	106	0.00
5 T	Propionic Acid	50.000	47.773	4.5	98	0.02
6 T	Butyric Acid	50.000	51.089	-2.2	105	0.08

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Analysis: Methylmalonic Acidemia Analyst: [illegible] Run Method: MET ACIDS

Date: 6/18/24 Instr. HPLC06 Quant Method: 6-MA06182A

RC2400119 LIMS Run#: 844642

Setup: Column: Supelco HydroRP Col.Temp: 35°C Flow: 0.6 ml/min

Mobile Phase: 0.05M KH2PO4 pH 2.5 ul Inj.: 50

Mobile Phase ID: 235872

Pos.	Sample	Diln.	Stds. ID	File#	OK?	Comments
1	BLK			A00071037	—	pH <2
1	BLK			38	—	
1	BLK			39	—	
2	Inst BLK			40	Y	
3	0.1|1 STD	1µL / 1mL	235845	41	Y	
4	0.2|2 STD	2µL		42	Y	
5	0.5|5 STD	5µL		43	Y	
6	1|10 STD	10µL		44	Y	
7	2|20 STD	20µL		45	Y	
8	5|50 STD	50µL		46	Y	
9	10|100 STD	100µL		47	Y	
10	20|200 STD	200µL		48	Y	
11	ICV	50µL / 1mL	235846	49	Y	
8	CCV	↓	235845	50	Y	
12	MB			51	Y	
13	LCS	20µL/1mL	235845	52	Y	
14	DLCS	↓	↓	53	Y	
15	R2404674-006	2		54	Y	
16	↓ -DUP	2		55	Y	
17	R2405127-001			56	Y	
18	R2405128-001			57	Y	
19	R2404477-001			58	Y	
20	↓ -002			59	Y	
21	↓ -003			60	Y	
8	CCV	50µL / 1mL	235845	61	Y	
22	R2404477-004			62	Y	
23	↓ -005			63	Y	
24	↓ -006			64	Y	
25	Re-prep R2404477-006RE1		235846	65	Y	
26	↓ -006RE1		↓	66	Y	
8	CCV	50µL / 1mL	235845	67	Y	

Primary: 235845 exp: 9/23/24 Secondary: 235846 exp: 12/3/24

pH Paper: Hydrion 227822 Acid: 228352

Acidified DI: 254459

Runlog HPLCr2
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QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2404674
Project: Olean OU3 9-Month **Calibration Date:** 6/6/2024

Initial Calibration Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Calibration ID: RC2400111 **Signal ID:** synergi hydro rp
Instrument ID: R-HPLC-06

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC2400111-01	0.1/1 STD	I:\ACQUDATA\HPLC06\Data\060624\A0006819.D	06/06/2024 21:37
02	RC2400111-02	0.2/2 STD	I:\ACQUDATA\HPLC06\Data\060624\A0006820.D	06/06/2024 22:09
03	RC2400111-03	0.5/5 STD	I:\ACQUDATA\HPLC06\Data\060624\A0006821.D	06/06/2024 22:42
04	RC2400111-04	1/10 STD	I:\ACQUDATA\HPLC06\Data\060624\A0006822.D	06/06/2024 23:14
05	RC2400111-05	2/20 STD	I:\ACQUDATA\HPLC06\Data\060624\A0006823.D	06/06/2024 23:46
08	RC2400111-08	20/200 STD	I:\ACQUDATA\HPLC06\Data\060624\A0006826.D	06/07/2024 01:23
06	RC2400111-06	5/50 STD	I:\ACQUDATA\HPLC06\Data\060624\A0006824.D	06/07/2024 12:19
07	RC2400111-07	10/100 STD	I:\ACQUDATA\HPLC06\Data\060624\A0006825.D	06/07/2024 12:51

Analyte

Acetic Acid

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	5.165E4	02	2.000	5.687E4	03	5.000	5.691E4	04	10.000	5.732E4
05	20.000	6.266E4	06	50.000	6.031E4	07	100.000	5.99E4	08	200.000	6.166E4

Butanoic Acid (Butyric Acid)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	5.000	9.665E4	04	10.000	6.998E4	05	20.000	9.227E4	06	50.000	7.736E4
07	100.000	7.659E4	08	200.000	7.808E4						

Propionic Acid

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	7.547E4	02	2.000	4.074E4	03	5.000	5.288E4	04	10.000	5.313E4
05	20.000	5.846E4	06	50.000	5.627E4	07	100.000	5.592E4	08	200.000	5.541E4

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2404674
Project: Olean OU3 9-Month **Calibration Date:** 6/6/2024

Initial Calibration Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Calibration ID: RC2400111 **Signal ID:** synergi hydro rp
Instrument ID: R-HPLC-06

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Acetic Acid	TRG	Average RF	% RSD	6.0	≤	5.841E4	
Butanoic Acid (Butyric Acid)	TRG	Average RF	% RSD	12.6	≤	8.182E4	
Propionic Acid	TRG	Average RF	% RSD	17.0	≤	5.603E4	

ALS Group USA, Corp.
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QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2404674
Project: Olean OU3 9-Month **Calibration Date:** 6/18/2024

Initial Calibration Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Calibration ID: RC2400119 **Signal ID:** synergi hydro rp
Instrument ID: R-HPLC-06

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC2400119-01	0.1/1 STD	I:\ACQUDATA\HPLC06\Data\061824\A0007041.D	06/18/2024 19:38
02	RC2400119-02	0.2/2 STD	I:\ACQUDATA\HPLC06\Data\061824\A0007042.D	06/18/2024 20:10
03	RC2400119-03	0.5/5 STD	I:\ACQUDATA\HPLC06\Data\061824\A0007043.D	06/18/2024 20:43
04	RC2400119-04	1/10 STD	I:\ACQUDATA\HPLC06\Data\061824\A0007044.D	06/18/2024 21:15
05	RC2400119-05	2/20 STD	I:\ACQUDATA\HPLC06\Data\061824\A0007045.D	06/18/2024 21:47
06	RC2400119-06	5/50 STD	I:\ACQUDATA\HPLC06\Data\061824\A0007046.D	06/18/2024 22:19
07	RC2400119-07	10/100 STD	I:\ACQUDATA\HPLC06\Data\061824\A0007047.D	06/18/2024 22:52
08	RC2400119-08	20/200 STD	I:\ACQUDATA\HPLC06\Data\061824\A0007048.D	06/18/2024 23:24

Analyte

Acetic Acid

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	5.245E4	02	2.000	5.673E4	03	5.000	5.708E4	04	10.000	5.691E4
05	20.000	6.071E4	06	50.000	6.011E4	07	100.000	5.682E4	08	200.000	6.097E4

Butanoic Acid (Butyric Acid)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	5.000	6.943E4	04	10.000	9.386E4	05	20.000	7.467E4	06	50.000	7.493E4
07	100.000	7.139E4	08	200.000	7.872E4						

Propionic Acid

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	7.118E4	02	2.000	6.67E4	03	5.000	5.706E4	04	10.000	5.156E4
05	20.000	5.634E4	06	50.000	5.699E4	07	100.000	5.299E4	08	200.000	5.659E4

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QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2404674
Project: Olean OU3 9-Month **Calibration Date:** 6/18/2024

Initial Calibration Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Calibration ID: RC2400119 **Signal ID:** synergi hydro rp
Instrument ID: R-HPLC-06

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Acetic Acid	TRG	Average RF	% RSD	4.9	≤	5.772E4	
Butanoic Acid (Butyric Acid)	TRG	Average RF	% RSD	11.4	≤	7.716E4	
Propionic Acid	TRG	Average RF	% RSD	11.5	≤	5.867E4	

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QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2404674
Project: Olean OU3 9-Month **Calibration Date:** 6/6/2024

Initial Calibration Verification Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Calibration ID: RC2400111 **Signal ID:** synergi hydro rp
Instrument ID: R-HPLC-06

#	Lab Code	Sample Name	File Location	Acquisition Date
09	RC2400111-09	ICV	I:\ACQUDATA\HPLC06\Data\060624\A0006827.D	06/07/2024 01:56

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Acetic Acid	50.0	51.7	5.841E4	6.045E4	3.49	±30	Average RF
Butanoic Acid (Butyric Acid)	50.0	48.6	8.182E4	7.951E4	-2.824	±30	Average RF
Propionic Acid	50.0	49.6	5.603E4	5.559E4	-0.793	±30	Average RF

ALS Group USA, Corp.
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QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2404674
Project: Olean OU3 9-Month **Calibration Date:** 6/18/2024

Initial Calibration Verification Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Calibration ID: RC2400119 **Signal ID:** synergi hydro rp
Instrument ID: R-HPLC-06

#	Lab Code	Sample Name	File Location	Acquisition Date
09	RC2400119-09	ICV	I:\ACQUDATA\HPLC06\Data\061824\A0007049.D	06/18/2024 23:56

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Acetic Acid	50.0	55.0	5.772E4	6.349E4	9.99	±30	Average RF
Butanoic Acid (Butyric Acid)	50.0	51.1	7.716E4	7.884E4	2.18	±30	Average RF
Propionic Acid	50.0	47.8	5.867E4	5.606E4	-4.455	±30	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Analyzed:**	06/07/24 08:23

Continuing Calibration Verification (CCV) Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method:	Organic Acids	**Calibration Date:**	6/6/2024
File ID:	I:\ACQUDATA\HPLC06\Data\060624\A0006839.D\	**Calibration ID:**	RC2400111
Signal ID:	synergi hydro rp	**Analysis Lot:**	843554
		Units:	mg/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Acetic Acid	50.0	51.9	NA	NA	NA	NA	±20	
Butanoic Acid (Butyric Acid)	50.0	50.0	NA	NA	NA	NA	±20	
Propionic Acid	50.0	49.8	NA	NA	NA	NA	±20	

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Analyzed:**	06/07/24 14:19

Continuing Calibration Verification (CCV) Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method:	Organic Acids	**Calibration Date:**	6/6/2024
File ID:	I:\ACQUDATA\HPLC06\Data\060624\A0006850.D\	**Calibration ID:**	RC2400111
Signal ID:	synergi hydro rp	**Analysis Lot:**	843554
		Units:	mg/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Acetic Acid	50.0	52.3	NA	NA	NA	NA	±20	
Butanoic Acid (Butyric Acid)	50.0	50.1	NA	NA	NA	NA	±20	
Propionic Acid	50.0	50.1	NA	NA	NA	NA	±20	

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Analyzed:**	06/07/24 20:15

Continuing Calibration Verification (CCV) Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method:	Organic Acids	**Calibration Date:**	6/6/2024
File ID:	I:\ACQUDATA\HPLC06\Data\060624\A0006861.D\	**Calibration ID:**	RC2400111
Signal ID:	synergi hydro rp	**Analysis Lot:**	843554
		Units:	mg/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Acetic Acid	50.0	51.8	NA	NA	NA	NA	±20	
Butanoic Acid (Butyric Acid)	50.0	47.7	NA	NA	NA	NA	±20	
Propionic Acid	50.0	49.8	NA	NA	NA	NA	±20	

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Analyzed:**	06/08/24 00:01

Continuing Calibration Verification (CCV) Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method:	Organic Acids	**Calibration Date:**	6/6/2024
File ID:	I:\ACQUDATA\HPLC06\Data\060624\A0006868.D\	**Calibration ID:**	RC2400111
Signal ID:	synergi hydro rp	**Analysis Lot:**	843554
		Units:	mg/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Acetic Acid	50.0	51.9	NA	NA	NA	NA	±20	
Butanoic Acid (Butyric Acid)	50.0	47.5	NA	NA	NA	NA	±20	
Propionic Acid	50.0	49.3	NA	NA	NA	NA	±20	

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Analyzed:**	06/19/24 00:29

Continuing Calibration Verification (CCV) Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method:	Organic Acids	**Calibration Date:**	6/18/2024
File ID:	I:\ACQUDATA\HPLC06\Data\061824\A0007050.D\	**Calibration ID:**	RC2400119
Signal ID:	synergi hydro rp	**Analysis Lot:**	844642
		Units:	mg/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Acetic Acid	50.0	51.8	5.772E4	5.978E4	3.6	NA	±20	Average RF
Butanoic Acid (Butyric Acid)	50.0	49.5	7.716E4	7.637E4	-1.0	NA	±20	Average RF
Propionic Acid	50.0	48.7	5.867E4	5.719E4	-2.5	NA	±20	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Analyzed:**	06/19/24 06:25

Continuing Calibration Verification (CCV) Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method:	Organic Acids	**Calibration Date:**	6/18/2024
File ID:	I:\ACQUDATA\HPLC06\Data\061824\A0007061.D\	**Calibration ID:**	RC2400119
Signal ID:	synergi hydro rp	**Analysis Lot:**	844642
		Units:	mg/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Acetic Acid	50.0	51.2	5.772E4	5.911E4	2.4	NA	±20	Average RF
Butanoic Acid (Butyric Acid)	50.0	49.4	7.716E4	7.618E4	-1.3	NA	±20	Average RF
Propionic Acid	50.0	48.2	5.867E4	5.653E4	-3.7	NA	±20	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Analyzed:**	06/19/24 09:39

Continuing Calibration Verification (CCV) Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method:	Organic Acids	**Calibration Date:**	6/18/2024
File ID:	I:\ACQUDATA\HPLC06\Data\061824\A0007067.D\	**Calibration ID:**	RC2400119
Signal ID:	synergi hydro rp	**Analysis Lot:**	844642
		Units:	mg/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Acetic Acid	50.0	52.0	5.772E4	6.0E4	4.0	NA	±20	Average RF
Butanoic Acid (Butyric Acid)	50.0	48.2	7.716E4	7.436E4	-3.6	NA	±20	Average RF
Propionic Acid	50.0	48.7	5.867E4	5.709E4	-2.7	NA	±20	Average RF

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2404674
Project: Olean OU3 9-Month/300-082.0043

Analysis Run Log

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids **Analysis Lot:**843554
Instrument ID:R-HPLC-06

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\HPLC06\Data\060624\A0006839.D\	Continuing Calibration Verification	RQ2406547-01	6/7/2024	08:23:56	
I:\ACQUDATA\HPLC06\Data\060624\A0006845.D\	Method Blank	RQ2406547-02	6/7/2024	11:37:53	
I:\ACQUDATA\HPLC06\Data\060624\A0006846.D\	Lab Control Sample	RQ2406547-03	6/7/2024	12:10:12	
I:\ACQUDATA\HPLC06\Data\060624\A0006847.D\	Duplicate Lab Control Sample	RQ2406547-04	6/7/2024	12:42:35	
I:\ACQUDATA\HPLC06\Data\060624\A0006848.D\	ZZZZZZZ	ZZZZZZZ	6/7/2024	13:14:54	
I:\ACQUDATA\HPLC06\Data\060624\A0006849.D\	ZZZZZZZ	ZZZZZZZ	6/7/2024	13:47:13	
I:\ACQUDATA\HPLC06\Data\060624\A0006850.D\	Continuing Calibration Verification	RQ2406547-05	6/7/2024	14:19:34	
I:\ACQUDATA\HPLC06\Data\060624\A0006851.D\	ZZZZZZZ	ZZZZZZZ	6/7/2024	14:51:54	
I:\ACQUDATA\HPLC06\Data\060624\A0006852.D\	OLN-RU009-F008	R2404674-001	6/7/2024	15:24:12	
I:\ACQUDATA\HPLC06\Data\060624\A0006853.D\	OLN-FB001-B008	R2404674-002	6/7/2024	15:56:33	
I:\ACQUDATA\HPLC06\Data\060624\A0006854.D\	OLN-RU010-F008	R2404674-004	6/7/2024	16:28:52	
I:\ACQUDATA\HPLC06\Data\060624\A0006855.D\	OLN-RU015-F008	R2404674-005	6/7/2024	17:01:16	
I:\ACQUDATA\HPLC06\Data\060624\A0006857.D\	OLN-RU020-F008	R2404674-007	6/7/2024	18:05:58	
I:\ACQUDATA\HPLC06\Data\060624\A0006858.D\	OLN-RU021-F008	R2404674-008	6/7/2024	18:38:19	
I:\ACQUDATA\HPLC06\Data\060624\A0006860.D\	OLN-RU028-F008	R2404674-010	6/7/2024	19:42:57	
I:\ACQUDATA\HPLC06\Data\060624\A0006861.D\	Continuing Calibration Verification	RQ2406547-06	6/7/2024	20:15:20	
I:\ACQUDATA\HPLC06\Data\060624\A0006862.D\	OLN-UA002-F008	R2404674-011	6/7/2024	20:47:41	
I:\ACQUDATA\HPLC06\Data\060624\A0006863.D\	OLN-UA002-F008 MS	RQ2406547-08	6/7/2024	21:20:00	
I:\ACQUDATA\HPLC06\Data\060624\A0006864.D\	OLN-UA002-F008 DMS	RQ2406547-09	6/7/2024	21:52:24	
I:\ACQUDATA\HPLC06\Data\060624\A0006865.D\	OLN-FD001-D008	R2404674-013	6/7/2024	22:24:43	
I:\ACQUDATA\HPLC06\Data\060624\A0006866.D\	OLN-FB002-B008	R2404674-014	6/7/2024	22:57:05	
I:\ACQUDATA\HPLC06\Data\060624\A0006867.D\	OLN-EB001-E008	R2404674-016	6/7/2024	23:29:25	
I:\ACQUDATA\HPLC06\Data\060624\A0006868.D\	Continuing Calibration Verification	RQ2406547-07	6/8/2024	00:01:49	

ALS Group USA, Corp.
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QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2404674
Project: Olean OU3 9-Month/300-082.0043

Analysis Run Log
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids **Analysis Lot:**844642
Instrument ID:R-HPLC-06

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\HPLC06\Data\061824\A0007050.D\	Continuing Calibration Verification	RQ2407088-01	6/19/2024	00:29:21	
I:\ACQUDATA\HPLC06\Data\061824\A0007051.D\	Method Blank	RQ2407088-02	6/19/2024	01:01:42	
I:\ACQUDATA\HPLC06\Data\061824\A0007052.D\	Lab Control Sample	RQ2407088-03	6/19/2024	01:34:05	
I:\ACQUDATA\HPLC06\Data\061824\A0007053.D\	Duplicate Lab Control Sample	RQ2407088-04	6/19/2024	02:06:28	
I:\ACQUDATA\HPLC06\Data\061824\A0007054.D\	OLN-RU019-F008	R2404674-006	6/19/2024	02:38:47	
I:\ACQUDATA\HPLC06\Data\061824\A0007055.D\	OLN-RU027A-F008	R2404674-009	6/19/2024	03:11:07	
I:\ACQUDATA\HPLC06\Data\061824\A0007056.D\	ZZZZZZZ	ZZZZZZZ	6/19/2024	03:43:30	
I:\ACQUDATA\HPLC06\Data\061824\A0007057.D\	ZZZZZZZ	ZZZZZZZ	6/19/2024	04:15:49	
I:\ACQUDATA\HPLC06\Data\061824\A0007058.D\	ZZZZZZZ	ZZZZZZZ	6/19/2024	04:48:11	
I:\ACQUDATA\HPLC06\Data\061824\A0007059.D\	ZZZZZZZ	ZZZZZZZ	6/19/2024	05:20:33	
I:\ACQUDATA\HPLC06\Data\061824\A0007060.D\	ZZZZZZZ	ZZZZZZZ	6/19/2024	05:52:56	
I:\ACQUDATA\HPLC06\Data\061824\A0007061.D\	Continuing Calibration Verification	RQ2407088-05	6/19/2024	06:25:16	
I:\ACQUDATA\HPLC06\Data\061824\A0007062.D\	ZZZZZZZ	ZZZZZZZ	6/19/2024	06:57:42	
I:\ACQUDATA\HPLC06\Data\061824\A0007063.D\	ZZZZZZZ	ZZZZZZZ	6/19/2024	07:30:00	
I:\ACQUDATA\HPLC06\Data\061824\A0007064.D\	ZZZZZZZ	ZZZZZZZ	6/19/2024	08:02:21	
I:\ACQUDATA\HPLC06\Data\061824\A0007065.D\	ZZZZZZZ	ZZZZZZZ	6/19/2024	08:34:39	
I:\ACQUDATA\HPLC06\Data\061824\A0007066.D\	ZZZZZZZ	ZZZZZZZ	6/19/2024	09:07:01	
I:\ACQUDATA\HPLC06\Data\061824\A0007067.D\	Continuing Calibration Verification	RQ2407088-06	6/19/2024	09:39:22	

RC2400111

Analysis: Metabolic Acids Analyst: AF/KP Run Method: Met acids
Date: 6/6/24 Instr. _HPLC06_ Quant Method: MA060624
LIMS Run#: ~~834554~~, 834556

Setup: Column: Synergi HydroRP Col.Temp: 35°C Flow: 0.6mL/min
Mobile Phase: 0.02M KH_2PO_4 in 0.1M H_3PO_4 ul Inj.: 50uL
Mobile Phase ID: 234565

Pos.	Sample	Dilu.	Stds. ID	File#	OK?	Comments
1	Blank			A0006816	—	
1	Blank			817	—	
2	inst Blank			818	Y	
3	0.1/1 Std 1uL/1mL	~~100uL/2mL~~	2356069	819	Y	
4	0.2/2 Std 2uL/1mL	100uL/1mL		820	Y	
5	0.5/5 Std	5uL/1mL		821	Y	
6	1/10 Std	10uL/1mL		822	Y	
7	2/20 Std	20uL/1mL		823	Y	
8	5/50 Std	50uL/1mL		824	Y	
9	10/100 Std	100uL/1mL		825	Y	
10	20/200 Std	200uL/1mL		826	Y	
11	ICV	50uL/1mL	2356070	827	Y	
12	CCV	50uL/1mL	2356069	828		
13	MB 1			829		
14	5 COMP LOD	1mL/1mL	2356070	830		
15	↓ LOQ	2uL/1mL		831		
16	But. LOD	5uL/1mL		832		
17	But. LOQ	10uL/1mL		833		
18	LCS 1	20uL/1mL	2356070	834		
19	DLCS 1	↓		835		
20	R2404477-001			836	N	Curve does not pass DOD
21	↓ -002			837	N	
22	-003			838	N	
12	CCV	50uL/1mL	2356069	839	Y	
23	R2404477-004			840	N	
24	-005			841	N	
25	-006			842	N	
26	-006 MS	20uL/1mL	2356070	843	N	
27	↓ -006 DMS	↓	↓	844	N	↓
28	MB 2			845	Y	
29	LCS 2			846	Y	
30	DLCS 2			847	Y	
31	R2404738-001	20uL/1mL	2356070	848	Y	
32	R2404738-001	↓	↓	↓ 849	Y	

Primary: 2356069 exp: 9/23/24 Secondary: 2356070 exp: 12/13/24
pH Paper: Hydrion 2.0-9.0 Acid: _____

Analysis: Metabolic Acids Analyst: AF/VP Run Method: Metaacids

Date: 6/6/24 Instr. HPLC06 Quant Method: MA060624

LIMS Run#:

Setup: Column: Synergi Hydro RP Col.Temp: 35°C Flow: 0.6mL/min

Mobile Phase: 0.02M KH_2PO_4 in 0.1M H_3PO_4 ul Inj.: 50uL

Mobile Phase ID: 2345605

Pos.	Sample	Diln.	Stds. ID	File#	OK?	Comments
33	CCV	50uL/1mL	2356609	A0006850	Y	
34	R2404740-001			851	Y	
35	R2404674-001			852	Y	
36	-002			853	Y	
37	-004			854	Y	
38	-005			855	Y	
39	-006			856	N	Acetic hit over 200, dilute to 1:2
40	-007			857	Y	
41	-008			858	Y	
42	-009			859	N	Acetic hit over 200, Dilute 1:2
43	-010			860	Y	
33	CCV	50uL/1mL	2356609	861	Y	
44	R2404674-011			862	Y	
45	-011MS	20uL/1mL	2356701	863	Y	
46	-011DMS	↓	↓	864	Y	
47	-013			865	Y	
48	-014			866	Y	
49	-016			867	Y	
33	CCV	50uL/1mL	2356609	868	Y	

VP 6/11/24

Primary: 2356609 exp: 9/23/24 Secondary: 2356701 exp: 12/13/24

pH Paper: hydrion 227822 Acid:

Runlog HPLCr2
3/23/18

Analysis: Methods Amino Analyst: [illegible] Run Method: METAMPS

Date: 6/18/24 Instr. HPLC06 Quant Method: 6-MAO618Z4

RC2400119 LIMS Run#: 844642

Setup: Column: Synergi Hydro RP Col.Temp: 35°C Flow: 0.6 ml/min

Mobile Phase: 0.05M KH2PO4 in H2O ul Inj.: 50

Mobile Phase ID: 235872

Pos.	Sample	Diln.	Stds. ID	File#	OK?	Comments
1	BLK			A0007037	—	pH 6.2
1	BLK			38	—	
1	BLK			39	—	
2	Inst Blk			40	Y	
3	0.1|1 STD	1µL / 1mL	235845	41	Y	
4	0.2|2 STD	2µL		42	Y	
5	0.5|5 STD	5µL		43	Y	
6	1|10 STD	10µL		44	Y	
7	2|20 STD	20µL		45	Y	
8	5|50 STD	50µL		46	Y	
9	10|100 STD	100µL		47	Y	
10	20|200 STD	200µL		48	Y	
11	CCV	50µL / 1mL	235846	49	Y	
8	CCV	↓	235845	50	Y	
12	MB			51	Y	
13	LCS	20µL/1mL	235845	52	Y	
14	DLCS	↓	↓	53	Y	
15	R2404674-006	2		54	Y	
16	↓ -007	2		55	Y	
17	R2405127-001			56	Y	
18	R2405128-001			57	Y	
19	R2404477-001			58	Y	
20	↓ -002			59	Y	
21	↓ -003			60	Y	
8	CCV	50µL / 1mL	235845	61	Y	
22	R2404477-004			62	Y	
23	↓ -005			63	Y	
24	↓ -006			64	Y	
25	Re-prep R2404477-006MS		235846	65	Y	
26	↓ -006MSD		↓	66	Y	
8	CCV	50µL / 1mL	235845	67	Y	

Primary: 235845 exp: 9/23/24 Secondary: 235846 exp: 12/3/24

pH Paper: Hydrion 227822 Acid: 228252

Acidified DI: 234459

Metals

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Form 1

Inorganic Analysis Data Sheet

Metals by EPA 6010C

Workorder

R2404674

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 9-Month

06/21/2024

ALS Environmental–Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 9-Month	**R2404674**	

Metals by EPA 6010C (P)

OLN-RU009-F008	Collected	Received	Matrix	Prep Method
R2404674-001	05/28/24 1606	05/31/24 0950	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	06/10/24 23:49	R-ICP-AES-07_843647	439600
P	Iron, Dissolved	100	U	ug/L	70	100	1	06/10/24 23:49	R-ICP-AES-07_843647	439600
P	Manganese, Dissolved	10	U	ug/L	4	10	1	06/10/24 23:49	R-ICP-AES-07_843647	439600

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 9-Month	**R2404674**	

Metals by EPA 6010C (P)

OLN-FB001-B008	Collected	Received	Matrix	Prep Method
R2404674-002	05/28/24 1653	05/31/24 0950	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	06/10/24 23:53	R-ICP-AES-07_843647	439600
P	Iron, Dissolved	100	U	ug/L	70	100	1	06/10/24 23:53	R-ICP-AES-07_843647	439600
P	Manganese, Dissolved	10	U	ug/L	4	10	1	06/10/24 23:53	R-ICP-AES-07_843647	439600

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client Civil & Environmental Consultants, Incorporated (CEC)

Project Olean OU3 9-Month

Workorder **R2404674**

Metals by EPA 6010C (P)

OLN-RU010-F008	Collected	Received	Matrix	Prep Method
R2404674-004	05/29/24 1750	05/31/24 0950	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	6	J	ug/L	6	10	1	06/10/24 23:56	R-ICP-AES-07_843647	439600
P	Iron, Dissolved	5440		ug/L	70	100	1	06/10/24 23:56	R-ICP-AES-07_843647	439600
P	Manganese, Dissolved	3460		ug/L	4	10	1	06/10/24 23:56	R-ICP-AES-07_843647	439600

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 9-Month	**R2404674**

Metals by EPA 6010C (P)

OLN-RU015-F008	Collected	Received	Matrix	Prep Method
R2404674-005	05/29/24 0842	05/31/24 0950	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	06/10/24 23:59	R-ICP-AES-07_843647	439600
P	Iron, Dissolved	1560		ug/L	70	100	1	06/10/24 23:59	R-ICP-AES-07_843647	439600
P	Manganese, Dissolved	649		ug/L	4	10	1	06/10/24 23:59	R-ICP-AES-07_843647	439600

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 9-Month	**R2404674**	

Metals by EPA 6010C (P)

OLN-RU019-F008	Collected	Received	Matrix	Prep Method
R2404674-006	05/29/24 1720	05/31/24 0950	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	59		ug/L	6	10	1	06/11/24 00:02	R-ICP-AES-07_843647	439600
P	Iron, Dissolved	118000		ug/L	3100	5000	50	06/12/24 18:49	R-ICP-AES-06_844074	439600
P	Manganese, Dissolved	45500		ug/L	190	500	50	06/12/24 18:49	R-ICP-AES-06_844074	439600

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 9-Month	**R2404674**	

Metals by EPA 6010C (P)

OLN-RU020-F008	Collected	Received	Matrix	Prep Method
R2404674-007	05/29/24 1455	05/31/24 0950	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	06/11/24 00:06	R-ICP-AES-07_843647	439600
P	Iron, Dissolved	990		ug/L	70	100	1	06/11/24 00:06	R-ICP-AES-07_843647	439600
P	Manganese, Dissolved	1100		ug/L	4	10	1	06/11/24 00:06	R-ICP-AES-07_843647	439600

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client Civil & Environmental Consultants, Incorporated (CEC)

Project Olean OU3 9-Month

Workorder **R2404674**

Metals by EPA 6010C (P)

OLN-RU021-F008	Collected	Received	Matrix	Prep Method
R2404674-008	05/29/24 1611	05/31/24 0950	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	61		ug/L	6	10	1	06/11/24 00:09	R-ICP-AES-07_843647	439600
P	Iron, Dissolved	47500		ug/L	70	100	1	06/11/24 00:09	R-ICP-AES-07_843647	439600
P	Manganese, Dissolved	3600		ug/L	4	10	1	06/11/24 00:09	R-ICP-AES-07_843647	439600

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client Civil & Environmental Consultants, Incorporated (CEC)

Project Olean OU3 9-Month

Workorder **R2404674**

Metals by EPA 6010C (P)

OLN-RU027A-F008	Collected	Received	Matrix	Prep Method
R2404674-009	05/29/24 1421	05/31/24 0950	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	32		ug/L	6	10	1	06/11/24 00:12	R-ICP-AES-07_843647	439600
P	Iron, Dissolved	124000		ug/L	3100	5000	50	06/12/24 18:52	R-ICP-AES-06_844074	439600
P	Manganese, Dissolved	91700		ug/L	190	500	50	06/12/24 18:52	R-ICP-AES-06_844074	439600

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 9-Month	**R2404674**

Metals by EPA 6010C (P)

OLN-RU028-F008	Collected	Received	Matrix	Prep Method
R2404674-010	05/29/24 1235	05/31/24 0950	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	06/11/24 00:22	R-ICP-AES-07_843647	439600
P	Iron, Dissolved	100	U	ug/L	70	100	1	06/11/24 00:22	R-ICP-AES-07_843647	439600
P	Manganese, Dissolved	10	U	ug/L	4	10	1	06/11/24 00:22	R-ICP-AES-07_843647	439600

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 9-Month	**R2404674**

Metals by EPA 6010C (P)

OLN-UA002-F008	Collected	Received	Matrix	Prep Method
R2404674-011	05/29/24 1010	05/31/24 0950	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	06/11/24 00:25	R-ICP-AES-07_843647	439600
P	Iron, Dissolved	1910		ug/L	70	100	1	06/11/24 00:25	R-ICP-AES-07_843647	439600
P	Manganese, Dissolved	1380		ug/L	4	10	1	06/11/24 00:25	R-ICP-AES-07_843647	439600

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 9-Month	**R2404674**	

Metals by EPA 6010C (P)

OLN-WW18M-F008	Collected	Received	Matrix	Prep Method
R2404674-012	05/29/24 0915	05/31/24 0950	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	06/11/24 00:41	R-ICP-AES-07_843647	439600
P	Iron, Dissolved	100	U	ug/L	70	100	1	06/11/24 00:41	R-ICP-AES-07_843647	439600
P	Manganese, Dissolved	10	J	ug/L	4	10	1	06/11/24 00:41	R-ICP-AES-07_843647	439600

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client Civil & Environmental Consultants, Incorporated (CEC)

Project Olean OU3 9-Month

Workorder **R2404674**

Metals by EPA 6010C (P)

OLN-FD001-D008	Collected	Received	Matrix	Prep Method
R2404674-013	05/29/24 0700	05/31/24 0950	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	58		ug/L	6	10	1	06/11/24 00:44	R-ICP-AES-07_843647	439600
P	Iron, Dissolved	46900		ug/L	70	100	1	06/11/24 00:44	R-ICP-AES-07_843647	439600
P	Manganese, Dissolved	3560		ug/L	4	10	1	06/11/24 00:44	R-ICP-AES-07_843647	439600

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 9-Month	**R2404674**

Metals by EPA 6010C (P)

OLN-FB002-B008	Collected	Received	Matrix	Prep Method
R2404674-014	05/29/24 1725	05/31/24 0950	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	06/11/24 00:48	R-ICP-AES-07_843647	439600
P	Iron, Dissolved	100	U	ug/L	70	100	1	06/11/24 00:48	R-ICP-AES-07_843647	439600
P	Manganese, Dissolved	10	U	ug/L	4	10	1	06/11/24 00:48	R-ICP-AES-07_843647	439600

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client Civil & Environmental Consultants, Incorporated (CEC)

Project Olean OU3 9-Month

Workorder **R2404674**

Metals by EPA 6010C (P)

OLN-EB001-E008	Collected	Received	Matrix	Prep Method
R2404674-016	05/30/24 1630	05/31/24 0950	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	06/11/24 00:51	R-ICP-AES-07_843647	439600
P	Iron, Dissolved	100	U	ug/L	70	100	1	06/11/24 00:51	R-ICP-AES-07_843647	439600
P	Manganese, Dissolved	10	U	ug/L	4	10	1	06/11/24 00:51	R-ICP-AES-07_843647	439600

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 9-Month	**R2404674**

Metals by EPA 6010C (P)

Method Blank

	Matrix	Prep Method
R2404674-MB	Water	EPA 3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic	10	U	ug/L	6	10	1	06/10/24 23:43	R-ICP-AES-07_843647	439600
P	Iron	100	U	ug/L	70	100	1	06/10/24 23:43	R-ICP-AES-07_843647	439600
P	Manganese	10	U	ug/L	4	10	1	06/10/24 23:43	R-ICP-AES-07_843647	439600

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Metals Data Cover Sheet

Run Date: 6/10/2024

Data File: 061024-ICP7

Primary Reviewer: N. Mansen

Secondary Reviewer: M. McMahon

LIMS Runs:	LIMS Preps:	
843643	439549	CCV7
843644	439397,439398,439400	DOD CCV7
843645	439599	CCV7
843646	439480	T2
843647	439600	CCV6
843648	439601	CCV6
843649	439481	CCV5
843650	439635	T2

Comments:
N/A

ICP-7 Run Log

Serial number: MY2309CQ22

Analyst: NM Date: 6/10/24 Data File: 061024-ICP7

	Prep Date	Lot #
MRL	5/16/24	M844012OC
ICSA	4/19/24	M8440133B
ICSAB	5/6/24	M8440143C
Int. Std	5/28/24	M87500565
ICV/CCV	6/10/24	M87500691

	Prep Date	Lot #
Cal Std 1	3/27/24	M87500028
Cal Std 2 1/100 calb, 3 1/50 calb, 4 1/10 calb, 5 1/5 calb		M87500138
Cal Std 3 HLCCV1	5/13/24	M8440078B
HLCCV2 6	4/23/24	M8440098B
HLCCV3	5/16/24	NM 6/10/24

~~(Cal Std 4 is a 1/5 and Cal Std 3 is a 1/100 dilution of Cal Std 5)~~

Blank Prep - Daily	NHO3	HCl	Pipet Used	DOD Pipet Verification	IEC Date
Lot	235024	233283	M37, M40	M8390040	—

1:1	LOD CHECK	1:41	R2404693-011 10X
1:2	PBW-439549	1:42	R2404693-011 50X
1:3	LCSW-439549	S1:6	Continuing Calibration Verification
1:4	R2404536-001 20X	S1:7	Continuing Calibration Blank
1:5	R2404536-001S 20X	S1:3	Contract Required Detection Limit
1:6	R2404536-001SD 20X	S1:4	Interference Check Solution A
1:7	R2404536-001A 20X	S1:5	Interference Check Solution AB
1:8	R2404536-001L 100X	S1:21	HLCCV2
1:9	R2404536-002 20X	S1:22	HLCCV3
1:10	R2404536-002S 20X	S1:19	HLCCV1
S1:6	Continuing Calibration Verification	S1:6	Continuing Calibration Verification
S1:7	Continuing Calibration Blank	S1:7	Continuing Calibration Blank
1:11	R2404536-002SD 20X	1:43	PBW-439599
1:12	R2404536-002A 20X	1:44	LCSW-439599
1:13	R2404536-002L 100X	1:45	DLCSW-439599
1:14	R2404536-003 20X	1:46	R2404631-005 50X
1:15	R2404536-004 20X	1:47	R2404631-006 10X
1:16	R2404536-005 20X	1:48	R2404631-007 20X
1:17	R2404536-006 20X	1:49	R2404631-008 50X
1:18	R2404536-007 20X	1:50	R2404631-009 10X
1:19	R2404536-008 20X	1:51	R2404631-010 50X
1:20	PBW-439397	1:52	R2404631-011 10X
S1:6	Continuing Calibration Verification	S1:6	Continuing Calibration Verification
S1:7	Continuing Calibration Blank	S1:7	Continuing Calibration Blank
1:21	LCSW-439397	1:53	R2404730-001
1:22	DLCSW-439397	1:54	R2404730-002
1:23	R2404637-001 20X	1:55	R2404730-003
1:24	R2404637-002 10X	1:56	R2404730-004
1:25	R2404637-003 10X	1:57	R2404730-006
1:26	R2404637-004 10X	1:58	R2404730-006L 5X
1:27	R2404367-004L 50X	1:59	R2404731-003
1:28	PBW-439398	1:60	R2404758-001 10X
1:29	LCSW-439398	2:1	R2404765-002
1:30	R2404632-001 10X	2:2	R2404780-001
S1:6	Continuing Calibration Verification	S1:6	Continuing Calibration Verification
S1:7	Continuing Calibration Blank	S1:7	Continuing Calibration Blank
1:31	R2404632-001L 50X	2:3	R2404780-002
1:32	R2404651-006 10X	2:4	R2404780-003
1:33	R2404693-002 20X	2:5	R2404730-001 20X
1:34	R2404693-003 10X	2:6	R2404730-002 20X
1:35	R2404693-006 20X	2:7	R2404730-003 20X
1:36	R2404693-008 20X	2:8	R2404730-004 20X
1:37	R2404693-009 20X	2:9	R2404730-006 20X
1:38	PBW-439400	2:10	R2404758-001 100X
1:39	LCSW-439400	2:11	R2404765-002 10X
1:40	DLCSW-439400	2:12	R2404780-001 20X
S1:6	Continuing Calibration Verification	S1:6	Continuing Calibration Verification
	Continuing Calibration Blank	S1:7	Continuing Calibration Blank

2:13	R2404780-002 10X	2:41	PBW-439600
2:14	R2404780-003 10X	2:42	LCSW-439600
S1:8	Continuing Calibration Verification1	2:43	R2404674-001
S1:9	Continuing Calibration Blank1	2:44	R2404674-002
S1:3	Contract Required Detection Limit	2:45	R2404674-004
S1:4	Interference Check Solution A	2:46	R2404674-005
S1:5	Interference Check Solution AB	2:47	R2404674-006
S1:8	Continuing Calibration Verification1	2:48	R2404674-007
S1:9	Continuing Calibration Blank1	2:49	R2404674-008
2:15	PBS-439480	2:50	R2404674-009
2:16	LCSS-439480	S1:8	Continuing Calibration Verification
2:17	R2404648-001	S1:9	Continuing Calibration Blank1
2:18	R2404648-001S	2:51	R2404674-010
2:19	R2404648-001SD	2:52	R2404674-011
2:20	R2404648-001A	2:53	R2404674-011S
2:21	R2404648-001L 5X	2:54	R2404674-011SD
2:22	R2404648-002	2:55	R2404674-011A
2:23	R2404648-003	2:56	R2404674-011L 5X
2:24	R2404648-004	2:57	R2404674-012
S1:8	Continuing Calibration Verification1	2:58	R2404674-013
S1:9	Continuing Calibration Blank1	2:59	R2404674-014
2:25	R2404648-005	2:60	R2404671-016 R2404674-016
2:26	R2404648-006	S1:8	Continuing Calibration Verificatio
2:27	R2404648-007	S1:9	Continuing Calibration Blank1
2:28	R2404648-008	3:1	R2404694-001
2:29	R2404648-009	3:2	R2404694-002
2:30	R2404648-010	3:3	R2404694-003
2:31	R2404648-011	3:4	R2404694-004
2:32	R2404648-012	3:5	R2404694-004L 5X
2:33	R2404648-013	3:6	R2404694-001 20X
2:34	R2404648-014	3:7	R2404694-002 20X
S1:8	Continuing Calibration Verification1	3:8	R2404694-003 20X
S1:9	Continuing Calibration Blank1	3:9	R2404694-004 20X
2:35	R2404648-015	S1:8	Continuing Calibration Verificati
2:36	R2404648-016	S1:9	Continuing Calibration Blank1
2:37	R2404648-017	S1:3	Contract Required Detection Li
2:38	R2404648-018	S1:4	Interference Check Solution A
2:39	R2404648-019	S1:5	Interference Check Solution AB
2:40	R2404648-020	S1:8	Continuing Calibration Verificat
S1:8	Continuing Calibration Verification1	S1:9	Continuing Calibration Blank1
S1:9	Continuing Calibration Blank1		
S1:3	Contract Required Detection Limit		
S1:4	Interference Check Solution A		
S1:5	Interference Check Solution AB		
S1:8	Continuing Calibration Verification1		
S1:9	Continuing Calibration Blank1		

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ICP-7 Run Log

Serial number: MY2309CQ22

Analyst: NM Date: 6/10/24 Data File: 061024-ICP7

	Prep Date	Lot #		Prep Date	Lot #
MRL			Cal Std 1		
ICSA	NM 6/10/24		Cal Std 2		
ICSAB			Cal Std 5/ HLCCV1		
Int. Std			HLCCV2		
ICV/CCV			HLCCV3		

(Cal Std 4 is a 1/5 and Cal Std 3 is a 1/100 dilution of Cal Std 5)

Blank Prep - Daily	NHO3	HCl	Pipet Used	DOD Pipet Verification	IEC Date
Lot					

3:10	PBW-439601	3:40	PBS-439481
3:11	LCSW-439601	3:41	LCSS-439481
3:12	R2404782-001	3:42	R2404703-001
3:13	R2404782-002	3:43	R2404704-001
3:14	R2404782-002S	3:44	R2404731-001
3:15	R2404782-002SD	3:45	R2404731-001S
3:16	R2404782-002A	3:46	R2404731-001SD
3:17	R2404782-002L 5X	3:47	R2404731-001A
3:18	R2404782-003	3:48	R2404731-001L 5X
3:19	R2404782-004	3:49	R2404731-002
S1:10	Continuing Calibration Verification2	S1:10	Continuing Calibration Verification2
S1:11	Continuing Calibration Blank2	S1:11	Continuing Calibration Blank2
3:20	R2404782-005	3:50	R2404750-001
3:21	R2404782-006	3:51	R2404750-002
3:22	R2404782-007	3:52	R2404765-001
3:23	R2404782-008	3:53	R2404731-001 10X
3:24	R2404782-009	3:54	R2404731-001S 10X
3:25	R2404782-010	3:55	R2404731-001SD 10X
3:26	R2404782-011	3:56	R2404731-001A 10X
3:27	R2404782-012	3:57	R2404731-001L 50X
3:28	R2404782-013	3:58	R2404731-002 10X
3:29	R2404782-014	S1:10	Continuing Calibration Verification2
S1:10	Continuing Calibration Verification2	S1:11	Continuing Calibration Blank2
S1:11	Continuing Calibration Blank2	S1:3	Contract Required Detection Limit
3:30	R2404782-015	S1:4	Interference Check Solution A
3:31	R2404850-001	S1:5	Interference Check Solution AB
3:32	R2404850-002	S1:10	Continuing Calibration Verification2
3:33	R2404850-005	S1:11	Continuing Calibration Blank2
3:34	R2404850-006	4:1	PBT-439635
3:35	R2404850-006L 5X	4:2	LCST-439635
3:36	R2404850-001 20X	4:3	RQ2406375-01
3:37	R2404850-002 20X	4:4	R2404768-001
3:38	R2404850-005 20X	4:5	R2404768-001S
3:39	R2404850-006 20X	4:6	R2404768-001SD
S1:10	Continuing Calibration Verification2	4:7	R2404768-001A
S1:11	Continuing Calibration Blank2	4:8	R2404768-001L 5X
S1:3	Contract Required Detection Limit	S1:10	Continuing Calibration Verification2
S1:4	Interference Check Solution A	S1:11	Continuing Calibration Blank2
S1:5	Interference Check Solution AB	S1:3	Contract Required Detection Limit
S1:10	Continuing Calibration Verification2	S1:4	Interference Check Solution A
S1:11	Continuing Calibration Blank2	S1:5	Interference Check Solution AB
		S1:10	Continuing Calibration Verification2
		S1:11	Continuing Calibration Blank2

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Created Date/Time	6/10/2024 13:13:59	Software Version	7.6.1.12212
Instrument Name	MY2309CQ22	Firmware Version	5590
File Path	C:\Agilent\ICP Expert\My Results\2024\061024-ICP7.esws		
Notes	NM 6/10/24		

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
6/10/2024 15:16:42	Blank	Ag (328.068 nm)	0.0000	N/A	-214.7014
	Blank	Al (237.312 nm)	0.0000	N/A	12.2794
	Blank	As (188.980 nm)	0.0000	N/A	-2.0240
	Blank	B (249.772 nm)	0.0000	N/A	5.5065
	Blank	Ba (230.424 nm)	0.0000	N/A	11.4535
	Blank	Be (313.107 nm)	0.0000	N/A	20.8240
	Blank	Ca (317.933 nm)	0.0000	N/A	2743.0282
	Blank	Cd (214.439 nm)	0.0000	N/A	1.9847
	Blank	Co (230.786 nm)	0.0000	N/A	-9.6825
	Blank	Cr (267.716 nm)	0.0000	N/A	5.9171
	Blank	Cu (327.395 nm)	0.0000	N/A	-27.6361
	Blank	Fe (234.350 nm)	0.0000	N/A	-0.4235
	Blank	K (766.491 nm)	0.0000	N/A	-192.0358
	Blank	Mg (279.078 nm)	0.0000	N/A	-29.7747
	Blank	Mn (257.610 nm)	0.0000	N/A	18.6543
	Blank	Mo (202.032 nm)	0.0000	N/A	11.9998
	Blank	Na (588.995 nm)	0.0000	N/A	-13622.7796
	Blank	Ni (230.299 nm)	0.0000	N/A	25.2517
	Blank	Pb (220.353 nm)	0.0000	N/A	7.9217
	Blank	Sb (217.582 nm)	0.0000	N/A	6.5891
	Blank	Se (196.026 nm)	0.0000	N/A	4.7785
	Blank	Si (252.851 nm)	0.0000	N/A	32.6584
	Blank	Sn (189.925 nm)	0.0000	N/A	3.0192
	Blank	Sr (216.596 nm)	0.0000	N/A	-0.6629
	Blank	Ti (336.122 nm)	0.0000	N/A	155.3946
	Blank	Tl (190.794 nm)	0.0000	N/A	-1.2039
	Blank	V (292.401 nm)	0.0000	N/A	-40.5746
	Blank	Y (360.074 nm)	1.00	0.00	488583.76
	Blank	Y_R (360.074 nm)	1.00	0.00	487780.22
	Blank	Zn (213.857 nm)	0.0000	N/A	0.5281
6/10/2024 15:19:57	Standard 1	Ag (328.068 nm)		N/A	-217.1260
	Standard 1	Al (237.312 nm)	0.1000	N/A	254.4576
	Standard 1	As (188.980 nm)	0.0100	N/A	13.9115
	Standard 1	B (249.772 nm)		N/A	9.6515
	Standard 1	Ba (230.424 nm)	0.0200	N/A	1083.8975
	Standard 1	Be (313.107 nm)	0.0030	N/A	3142.4650
	Standard 1	Ca (317.933 nm)		N/A	2896.0227
	Standard 1	Cd (214.439 nm)	0.0050	N/A	309.5041
	Standard 1	Co (230.786 nm)		N/A	-12.9955
	Standard 1	Cr (267.716 nm)		N/A	122.2357
	Standard 1	Cu (327.395 nm)	0.0100	N/A	408.4990
	Standard 1	Fe (234.350 nm)		N/A	161.2598
	Standard 1	K (766.491 nm)		N/A	-192.2188
	Standard 1	Mg (279.078 nm)		N/A	-25.0312
	Standard 1	Mn (257.610 nm)	0.0100	N/A	3452.0060
	Standard 1	Mo (202.032 nm)	0.0250	N/A	266.3161
	Standard 1	Na (588.995 nm)		N/A	-13405.6034
	Standard 1	Ni (230.299 nm)		N/A	24.3909
	Standard 1	Pb (220.353 nm)	0.0050	N/A	41.9762
	Standard 1	Sb (217.582 nm)	0.0600	N/A	116.2691
	Standard 1	Se (196.026 nm)		N/A	6.9211
	Standard 1	Si (252.851 nm)		N/A	109.7178

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Standard 1	Sn (189.925 nm)		N/A	2.1904
	Standard 1	Sr (216.596 nm)		N/A	1.9522
	Standard 1	Ti (336.122 nm)		N/A	124.7778
	Standard 1	Tl (190.794 nm)	0.0100	N/A	10.0508
	Standard 1	V (292.401 nm)		N/A	-47.4119
	Standard 1	Y (360.074 nm)	1.00	0.64	487090.69
	Standard 1	Y_R (360.074 nm)	1.00	0.64	486300.14
	Standard 1	Zn (213.857 nm)		N/A	-29.1631
6/10/2024 15:23:12	Standard 2	Ag (328.068 nm)	0.0100	N/A	346.9291
	Standard 2	Al (237.312 nm)	0.2000	N/A	501.5798
	Standard 2	As (188.980 nm)	0.0200	N/A	30.5775
	Standard 2	B (249.772 nm)	0.1000	N/A	3109.4761
	Standard 2	Ba (230.424 nm)	0.2000	N/A	10855.9553
	Standard 2	Be (313.107 nm)	0.0050	N/A	5482.8841
	Standard 2	Ca (317.933 nm)	0.5000	N/A	20813.4819
	Standard 2	Cd (214.439 nm)	0.0100	N/A	590.3930
	Standard 2	Co (230.786 nm)	0.0500	N/A	911.5483
	Standard 2	Cr (267.716 nm)	0.0100	N/A	553.1885
	Standard 2	Cu (327.395 nm)	0.0250	N/A	1052.5640
	Standard 2	Fe (234.350 nm)	0.1000	N/A	1844.7748
	Standard 2	K (766.491 nm)	0.5000	N/A	336.4366
	Standard 2	Mg (279.078 nm)	0.5000	N/A	1603.9931
	Standard 2	Mn (257.610 nm)	0.0150	N/A	5183.8872
	Standard 2	Mo (202.032 nm)	0.0500	N/A	523.3276
	Standard 2	Na (588.995 nm)	0.5000	N/A	-6868.1971
	Standard 2	Ni (230.299 nm)	0.0400	N/A	503.4971
	Standard 2	Pb (220.353 nm)	0.0100	N/A	60.2148
	Standard 2	Sb (217.582 nm)	0.1000	N/A	188.8470
	Standard 2	Se (196.026 nm)	0.0100	N/A	13.3105
	Standard 2	Si (252.851 nm)	0.5000	N/A	1909.0856
	Standard 2	Sn (189.925 nm)	0.1000	N/A	254.2375
	Standard 2	Sr (216.596 nm)	0.0500	N/A	876.9743
	Standard 2	Ti (336.122 nm)	0.0500	N/A	7277.0359
	Standard 2	Tl (190.794 nm)	0.0200	N/A	16.7524
	Standard 2	V (292.401 nm)	0.0500	N/A	1828.3923
	Standard 2	Y (360.074 nm)	1.00	0.64	488893.36
	Standard 2	Y_R (360.074 nm)	1.00	0.64	488090.95
	Standard 2	Zn (213.857 nm)	0.0200	N/A	1235.3343
6/10/2024 15:26:28	Standard 3	Ag (328.068 nm)	0.0200	N/A	917.8872
	Standard 3	Al (237.312 nm)	0.4000	N/A	1016.0961
	Standard 3	As (188.980 nm)	0.0400	N/A	64.9800
	Standard 3	B (249.772 nm)	0.2000	N/A	6359.5393
	Standard 3	Ba (230.424 nm)	0.4000	N/A	22227.6444
	Standard 3	Be (313.107 nm)	0.0100	N/A	11192.8829
	Standard 3	Ca (317.933 nm)	1.0000	N/A	39492.7013
	Standard 3	Cd (214.439 nm)	0.0200	N/A	1197.2108
	Standard 3	Co (230.786 nm)	0.1000	N/A	1880.3493
	Standard 3	Cr (267.716 nm)	0.0200	N/A	1105.5040
	Standard 3	Cu (327.395 nm)	0.0500	N/A	2162.2834
	Standard 3	Fe (234.350 nm)	0.2000	N/A	3791.5751
	Standard 3	K (766.491 nm)	1.0000	N/A	848.3260
	Standard 3	Mg (279.078 nm)	1.0000	N/A	3301.5600
	Standard 3	Mn (257.610 nm)	0.0300	N/A	10549.1301
	Standard 3	Mo (202.032 nm)	0.1000	N/A	1059.7969
	Standard 3	Na (588.995 nm)	1.0000	N/A	-12.8641
	Standard 3	Ni (230.299 nm)	0.0800	N/A	1005.5434
	Standard 3	Pb (220.353 nm)	0.0200	N/A	115.3159

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Standard 3	Sb (217.582 nm)	0.2000	N/A	378.0865
	Standard 3	Se (196.026 nm)	0.0200	N/A	18.7854
	Standard 3	Si (252.851 nm)	1.0000	N/A	3870.5921
	Standard 3	Sn (189.925 nm)	0.2000	N/A	516.3385
	Standard 3	Sr (216.596 nm)	0.1000	N/A	1801.0972
	Standard 3	Ti (336.122 nm)	0.1000	N/A	14771.0498
	Standard 3	Tl (190.794 nm)	0.0400	N/A	37.8517
	Standard 3	V (292.401 nm)	0.1000	N/A	3778.4425
	Standard 3	Y (360.074 nm)	1.00	0.52	488204.22
	Standard 3	Y_R (360.074 nm)	1.00	0.52	487392.19
	Standard 3	Zn (213.857 nm)	0.0400	N/A	2555.8540
6/10/2024 15:29:43	Standard 4	Ag (328.068 nm)	0.1000	N/A	5435.1964
	Standard 4	Al (237.312 nm)	2.0000	N/A	4934.7881
	Standard 4	As (188.980 nm)	0.2000	N/A	336.9284
	Standard 4	B (249.772 nm)	1.0000	N/A	31900.1710
	Standard 4	Ba (230.424 nm)	2.0000	N/A	109006.0515
	Standard 4	Be (313.107 nm)	0.0500	N/A	55454.0766
	Standard 4	Ca (317.933 nm)	5.0000	N/A	184833.0666
	Standard 4	Cd (214.439 nm)	0.1000	N/A	5823.0367
	Standard 4	Co (230.786 nm)	0.5000	N/A	9251.0174
	Standard 4	Cr (267.716 nm)	0.1000	N/A	5301.0326
	Standard 4	Cu (327.395 nm)	0.2500	N/A	10850.7026
	Standard 4	Fe (234.350 nm)	1.0000	N/A	18708.4501
	Standard 4	K (766.491 nm)	5.0000	N/A	5071.5453
	Standard 4	Mg (279.078 nm)	5.0000	N/A	16438.8834
	Standard 4	Mn (257.610 nm)	0.1500	N/A	51423.7190
	Standard 4	Mo (202.032 nm)	0.5000	N/A	5220.3115
	Standard 4	Na (588.995 nm)	5.0000	N/A	54269.4007
	Standard 4	Ni (230.299 nm)	0.4000	N/A	4844.6162
	Standard 4	Pb (220.353 nm)	0.1000	N/A	539.7134
	Standard 4	Sb (217.582 nm)	1.0000	N/A	1858.0694
	Standard 4	Se (196.026 nm)	0.1000	N/A	77.4196
	Standard 4	Si (252.851 nm)	5.0000	N/A	19140.2821
	Standard 4	Sn (189.925 nm)	1.0000	N/A	2551.6638
	Standard 4	Sr (216.596 nm)	0.5000	N/A	8857.7057
	Standard 4	Ti (336.122 nm)	0.5000	N/A	72410.6800
	Standard 4	Tl (190.794 nm)	0.2000	N/A	197.1151
	Standard 4	V (292.401 nm)	0.5000	N/A	18918.3881
	Standard 4	Y (360.074 nm)	0.99	0.49	483752.28
	Standard 4	Y_R (360.074 nm)	0.99	0.49	482947.31
	Standard 4	Zn (213.857 nm)	0.2000	N/A	12781.8649
6/10/2024 15:32:58	Standard 5	Ag (328.068 nm)	0.2000	N/A	11441.8520
	Standard 5	Al (237.312 nm)	4.0000	N/A	10162.4234
	Standard 5	As (188.980 nm)	0.4000	N/A	692.8380
	Standard 5	B (249.772 nm)	2.0000	N/A	65836.2932
	Standard 5	Ba (230.424 nm)	4.0000	N/A	223893.7217
	Standard 5	Be (313.107 nm)	0.1000	N/A	114723.2121
	Standard 5	Ca (317.933 nm)	10.0000	N/A	378276.7065
	Standard 5	Cd (214.439 nm)	0.2000	N/A	11991.6943
	Standard 5	Co (230.786 nm)	1.0000	N/A	18947.8682
	Standard 5	Cr (267.716 nm)	0.2000	N/A	10902.6041
	Standard 5	Cu (327.395 nm)	0.5000	N/A	22409.3776
	Standard 5	Fe (234.350 nm)	2.0000	N/A	38292.0122
	Standard 5	K (766.491 nm)	10.0000	N/A	10828.2569
	Standard 5	Mg (279.078 nm)	10.0000	N/A	33723.4500
	Standard 5	Mn (257.610 nm)	0.3000	N/A	105310.4430
	Standard 5	Mo (202.032 nm)	1.0000	N/A	10837.2990

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Standard 5	Na (588.995 nm)	10.0000	N/A	127378.3799
	Standard 5	Ni (230.299 nm)	0.8000	N/A	9895.7808
	Standard 5	Pb (220.353 nm)	0.2000	N/A	1106.1551
	Standard 5	Sb (217.582 nm)	2.0000	N/A	3830.2635
	Standard 5	Se (196.026 nm)	0.2000	N/A	153.2895
	Standard 5	Si (252.851 nm)	10.0000	N/A	39203.3911
	Standard 5	Sn (189.925 nm)	2.0000	N/A	5192.0545
	Standard 5	Sr (216.596 nm)	1.0000	N/A	18196.8975
	Standard 5	Ti (336.122 nm)	1.0000	N/A	149770.7431
	Standard 5	Tl (190.794 nm)	0.4000	N/A	406.2716
	Standard 5	V (292.401 nm)	1.0000	N/A	38928.9684
	Standard 5	Y (360.074 nm)	0.98	0.42	478330.13
	Standard 5	Y_R (360.074 nm)	0.98	0.42	477526.80
	Standard 5	Zn (213.857 nm)	0.4000	N/A	26499.5851
6/10/2024 15:36:13	Standard 6	Ag (328.068 nm)	1.0000	N/A	56634.3506
	Standard 6	Al (237.312 nm)	20.0000	N/A	49386.8261
	Standard 6	As (188.980 nm)	2.0000	N/A	3406.1319
	Standard 6	B (249.772 nm)	10.0000	N/A	326223.5965
	Standard 6	Ba (230.424 nm)	20.0000	N/A	1039801.0293
	Standard 6	Be (313.107 nm)	0.5000	N/A	551142.0898
	Standard 6	Ca (317.933 nm)	50.0000	N/A	1780201.3964
	Standard 6	Cd (214.439 nm)	1.0000	N/A	56961.2564
	Standard 6	Co (230.786 nm)	5.0000	N/A	89300.7563
	Standard 6	Cr (267.716 nm)	1.0000	N/A	51905.0207
	Standard 6	Cu (327.395 nm)	2.5000	N/A	110109.5742
	Standard 6	Fe (234.350 nm)	10.0000	N/A	181956.4471
	Standard 6	K (766.491 nm)	50.0000	N/A	55161.7922
	Standard 6	Mg (279.078 nm)	50.0000	N/A	163146.1556
	Standard 6	Mn (257.610 nm)	1.5000	N/A	500894.1205
	Standard 6	Mo (202.032 nm)	5.0000	N/A	52232.1617
	Standard 6	Na (588.995 nm)	50.0000	N/A	671422.2847
	Standard 6	Ni (230.299 nm)	4.0000	N/A	46660.8459
	Standard 6	Pb (220.353 nm)	1.0000	N/A	5226.9264
	Standard 6	Sb (217.582 nm)	10.0000	N/A	18679.1493
	Standard 6	Se (196.026 nm)	1.0000	N/A	733.6765
	Standard 6	Si (252.851 nm)	50.0000	N/A	193073.5037
	Standard 6	Sn (189.925 nm)	10.0000	N/A	24514.9302
	Standard 6	Sr (216.596 nm)	5.0000	N/A	86180.6194
	Standard 6	Ti (336.122 nm)	5.0000	N/A	721038.4170
	Standard 6	Tl (190.794 nm)	2.0000	N/A	1914.8961
	Standard 6	V (292.401 nm)	5.0000	N/A	189062.3567
	Standard 6	Y (360.074 nm)	0.94	0.46	459623.66
	Standard 6	Y_R (360.074 nm)	0.94	0.46	458835.08
	Standard 6	Zn (213.857 nm)	2.0000	N/A	129078.3414
6/10/2024 15:39:57	Initial Calibration Verification	Ag (328.068 nm)	0.5082	0.11	28577.3681
	Initial Calibration Verification	Al (237.312 nm)	9.9313	0.15	24562.0034
	Initial Calibration Verification	As (188.980 nm)	0.9904	0.54	1677.5694
	Initial Calibration Verification	B (249.772 nm)	2.4891	0.08	80829.8926
	Initial Calibration Verification	Ba (230.424 nm)	9.8341	0.12	535446.5221
	Initial Calibration Verification	Be (313.107 nm)	0.2459	0.16	269918.7436
	Initial Calibration Verification	Ca (317.933 nm)	25.7906	0.23	921414.2659
	Initial Calibration Verification	Cd (214.439 nm)	0.5056	0.23	28803.7971
	Initial Calibration Verification	Co (230.786 nm)	2.5113	0.19	45528.2886
	Initial Calibration Verification	Cr (267.716 nm)	0.5160	0.25	26827.0188
	Initial Calibration Verification	Cu (327.395 nm)	1.2342	0.45	54151.8667
	Initial Calibration Verification	Fe (234.350 nm)	5.0533	0.20	92010.1021
	Initial Calibration Verification	K (766.491 nm)	24.1925	0.41	26356.8003

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Initial Calibration Verification	Mg (279.078 nm)	25.4246	0.17	83055.6064
	Initial Calibration Verification	Mn (257.610 nm)	0.7452	0.15	248867.5724
	Initial Calibration Verification	Mo (202.032 nm)	2.5765	0.26	26907.2044
	Initial Calibration Verification	Na (588.995 nm)	25.2545	0.45	330302.8375
	Initial Calibration Verification	Ni (230.299 nm)	2.0759	0.21	24402.0665
	Initial Calibration Verification	Pb (220.353 nm)	0.5107	0.40	2673.9062
	Initial Calibration Verification	Sb (217.582 nm)	4.9927	0.18	9280.9165
	Initial Calibration Verification	Se (196.026 nm)	0.4814	0.92	355.7126
	Initial Calibration Verification	Si (252.851 nm)	10.3773	0.04	39573.9474
	Initial Calibration Verification	Sn (189.925 nm)	5.0916	0.15	12540.5558
	Initial Calibration Verification	Sr (216.596 nm)	2.4566	0.26	43234.2690
	Initial Calibration Verification	Ti (336.122 nm)	2.5519	0.11	368842.5870
	Initial Calibration Verification	Tl (190.794 nm)	0.9874	0.63	963.6169
	Initial Calibration Verification	V (292.401 nm)	2.5176	0.16	95405.6917
	Initial Calibration Verification	Y (360.074 nm)	0.96	0.38	470443.27
	Initial Calibration Verification	Y_R (360.074 nm)	0.96	0.38	469643.91
	Initial Calibration Verification	Zn (213.857 nm)	0.9950	0.03	63688.4716
6/10/2024 15:43:11	Initial Calibration Blank	Ag (328.068 nm)	-0.0001 u	> 100.00	-222.4049
	Initial Calibration Blank	Al (237.312 nm)	0.0034	48.37	20.6912
	Initial Calibration Blank	As (188.980 nm)	-0.0006 u	> 100.00	-3.0349
	Initial Calibration Blank	B (249.772 nm)	0.0042	8.32	140.8277
	Initial Calibration Blank	Ba (230.424 nm)	0.0004	10.67	31.0825
	Initial Calibration Blank	Be (313.107 nm)	0.0000 u	95.03	38.3764
	Initial Calibration Blank	Ca (317.933 nm)	0.0023	13.80	2824.8534
	Initial Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	4.1309
	Initial Calibration Blank	Co (230.786 nm)	0.0001 u	> 100.00	-8.3005
	Initial Calibration Blank	Cr (267.716 nm)	0.0001	59.42	11.2998
	Initial Calibration Blank	Cu (327.395 nm)	0.0000 u	> 100.00	-26.3696
	Initial Calibration Blank	Fe (234.350 nm)	0.0014	57.10	25.1894
	Initial Calibration Blank	K (766.491 nm)	0.0566	53.25	-129.9097
	Initial Calibration Blank	Mg (279.078 nm)	0.0010	98.82	-26.4177
	Initial Calibration Blank	Mn (257.610 nm)	0.0001	11.75	35.6413
	Initial Calibration Blank	Mo (202.032 nm)	0.0033	40.76	46.8304
	Initial Calibration Blank	Na (588.995 nm)	0.0156	38.22	-13410.3869
	Initial Calibration Blank	Ni (230.299 nm)	0.0001 u	> 100.00	26.7530
	Initial Calibration Blank	Pb (220.353 nm)	-0.0003 u	> 100.00	6.5825
	Initial Calibration Blank	Sb (217.582 nm)	0.0052	27.39	16.1566
	Initial Calibration Blank	Se (196.026 nm)	-0.0016 u	> 100.00	3.6250
	Initial Calibration Blank	Si (252.851 nm)	0.0030	13.31	44.1384
	Initial Calibration Blank	Sn (189.925 nm)	0.0004	4.44	4.0572
	Initial Calibration Blank	Sr (216.596 nm)	0.0003	95.24	4.4164
	Initial Calibration Blank	Ti (336.122 nm)	0.0029	44.37	578.5876
	Initial Calibration Blank	Tl (190.794 nm)	0.0019	58.81	0.6887
	Initial Calibration Blank	V (292.401 nm)	0.0001	49.70	-38.1265
	Initial Calibration Blank	Y (360.074 nm)	1.00	0.11	488735.25
	Initial Calibration Blank	Y_R (360.074 nm)	1.00	0.11	487895.08
	Initial Calibration Blank	Zn (213.857 nm)	0.0002	44.08	11.1156
6/10/2024 15:46:24	Contract Required Detection Limit	Ag (328.068 nm)	0.0089	1.21	289.5814
	Contract Required Detection Limit	Al (237.312 nm)	0.2010	1.47	509.1403
	Contract Required Detection Limit	As (188.980 nm)	0.0195	5.09	31.0003
	Contract Required Detection Limit	B (249.772 nm)	0.1992	0.14	6475.0167
	Contract Required Detection Limit	Ba (230.424 nm)	0.1992	0.25	10855.5016
	Contract Required Detection Limit	Be (313.107 nm)	0.0050	0.24	5521.4309
	Contract Required Detection Limit	Ca (317.933 nm)	1.0528	0.21	40243.1164
	Contract Required Detection Limit	Cd (214.439 nm)	0.0107	1.06	613.4079
	Contract Required Detection Limit	Co (230.786 nm)	0.0512	0.77	918.4559
	Contract Required Detection Limit	Cr (267.716 nm)	0.0097	1.74	508.5882

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Contract Required Detection Limit	Cu (327.395 nm)	0.0250	1.40	1070.8932
	Contract Required Detection Limit	Fe (234.350 nm)	0.1077	1.07	1960.0898
	Contract Required Detection Limit	K (766.491 nm)	0.9819	4.19	885.4610
	Contract Required Detection Limit	Mg (279.078 nm)	1.0218	0.24	3309.2288
	Contract Required Detection Limit	Mn (257.610 nm)	0.0141	0.19	4743.3273
	Contract Required Detection Limit	Mo (202.032 nm)	0.0258	0.55	281.0644
	Contract Required Detection Limit	Na (588.995 nm)	1.0141	0.19	188.0214
	Contract Required Detection Limit	Ni (230.299 nm)	0.0368	1.61	457.7869
	Contract Required Detection Limit	Pb (220.353 nm)	0.0110	3.85	65.3501
	Contract Required Detection Limit	Sb (217.582 nm)	0.0618	3.26	121.3637
	Contract Required Detection Limit	Se (196.026 nm)	0.0082	44.05	10.7759
	Contract Required Detection Limit	Si (252.851 nm)	0.0574	2.03	251.4752
	Contract Required Detection Limit	Sn (189.925 nm)	0.5139	0.55	1268.3573
	Contract Required Detection Limit	Sr (216.596 nm)	0.0994	0.77	1748.4905
	Contract Required Detection Limit	Ti (336.122 nm)	0.0510	1.45	7530.5188
	Contract Required Detection Limit	Tl (190.794 nm)	0.0212	5.73	19.5319
	Contract Required Detection Limit	V (292.401 nm)	0.0499	0.26	1849.5376
	Contract Required Detection Limit	Y (360.074 nm)	1.00	0.62	486677.87
	Contract Required Detection Limit	Y_R (360.074 nm)	1.00	0.62	485841.04
	Contract Required Detection Limit	Zn (213.857 nm)	0.0176	0.85	1126.3762
6/10/2024 15:49:38	Interference Check Solution A	Ag (328.068 nm)	-0.0002 u	14.80	-225.1312
	Interference Check Solution A	Al (237.312 nm)	256.6840 o	0.07	634525.0607
	Interference Check Solution A	As (188.980 nm)	-0.0012 u	> 100.00	-4.0686
	Interference Check Solution A	B (249.772 nm)	0.0943	0.10	3068.7182
	Interference Check Solution A	Ba (230.424 nm)	-0.0006 u	10.37	-20.7669
	Interference Check Solution A	Be (313.107 nm)	0.0002	8.90	219.4966
	Interference Check Solution A	Ca (317.933 nm)	240.7894 o	0.33	8579765.1733
	Interference Check Solution A	Cd (214.439 nm)	-0.0008 u	13.38	-42.0702
	Interference Check Solution A	Co (230.786 nm)	-0.0002 u	28.40	-13.3053
	Interference Check Solution A	Cr (267.716 nm)	0.0037	3.85	199.0674
	Interference Check Solution A	Cu (327.395 nm)	0.0084	5.01	343.0037
	Interference Check Solution A	Fe (234.350 nm)	95.3740 o	0.27	1736575.5389
	Interference Check Solution A	K (766.491 nm)	0.0517	14.95	-135.2506
	Interference Check Solution A	Mg (279.078 nm)	265.9931 o	0.25	869212.6144
	Interference Check Solution A	Mn (257.610 nm)	0.0012	3.22	411.1906
	Interference Check Solution A	Mo (202.032 nm)	0.0013	14.87	25.5323
	Interference Check Solution A	Na (588.995 nm)	-0.0637 u	5.92	-14490.3393
	Interference Check Solution A	Ni (230.299 nm)	0.0031	13.22	62.1051
	Interference Check Solution A	Pb (220.353 nm)	0.0018	43.50	17.5798
	Interference Check Solution A	Sb (217.582 nm)	0.0013	94.15	8.9406
	Interference Check Solution A	Se (196.026 nm)	-0.0084 u	89.40	-1.3425
	Interference Check Solution A	Si (252.851 nm)	0.0507	1.09	225.7524
	Interference Check Solution A	Sn (189.925 nm)	0.0007 u	> 100.00	4.6472
	Interference Check Solution A	Sr (216.596 nm)	0.0116	0.59	203.4618
	Interference Check Solution A	Ti (336.122 nm)	0.0029	14.63	573.9031
	Interference Check Solution A	Tl (190.794 nm)	0.0022	20.84	0.9470
	Interference Check Solution A	V (292.401 nm)	0.0020	8.43	36.2185
	Interference Check Solution A	Y (360.074 nm)	0.88	0.42	429358.49
	Interference Check Solution A	Y_R (360.074 nm)	0.88	0.42	428590.20
	Interference Check Solution A	Zn (213.857 nm)	0.0133 K	0.86	850.6720 K
6/10/2024 15:52:52	Interference Check Solution AB	Ag (328.068 nm)	0.2030	0.12	11286.4454
	Interference Check Solution AB	Al (237.312 nm)	257.7548 o	0.03	637172.1072
	Interference Check Solution AB	As (188.980 nm)	0.1034	1.58	173.2823
	Interference Check Solution AB	B (249.772 nm)	0.0914	0.60	2972.1717
	Interference Check Solution AB	Ba (230.424 nm)	0.5123	0.21	27904.2322
	Interference Check Solution AB	Be (313.107 nm)	0.5153	0.21	565637.4075
	Interference Check Solution AB	Ca (317.933 nm)	241.8973 o	0.27	8619230.3422

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Interference Check Solution AB	Cd (214.439 nm)	0.9992	0.32	56923.7691
	Interference Check Solution AB	Co (230.786 nm)	0.4970	0.31	9002.5296
	Interference Check Solution AB	Cr (267.716 nm)	0.5274	0.20	27419.3843
	Interference Check Solution AB	Cu (327.395 nm)	0.5544	0.11	24309.6211
	Interference Check Solution AB	Fe (234.350 nm)	95.8727 o	0.19	1745655.1623
	Interference Check Solution AB	K (766.491 nm)	0.0228 u	> 100.00	-166.9668
	Interference Check Solution AB	Mg (279.078 nm)	267.2360 o	0.25	873274.1665
	Interference Check Solution AB	Mn (257.610 nm)	0.5062	0.17	169076.5938
	Interference Check Solution AB	Mo (202.032 nm)	0.0011	36.09	23.5604
	Interference Check Solution AB	Na (588.995 nm)	-0.0760 u	2.32	-14657.4046
	Interference Check Solution AB	Ni (230.299 nm)	1.0115	0.21	11903.4035
	Interference Check Solution AB	Pb (220.353 nm)	0.0524	2.93	281.2349
	Interference Check Solution AB	Sb (217.582 nm)	0.6372	0.71	1190.2046
	Interference Check Solution AB	Se (196.026 nm)	0.0479	13.26	39.7110
	Interference Check Solution AB	Si (252.851 nm)	0.1032	1.39	425.8055
	Interference Check Solution AB	Sn (189.925 nm)	0.0009	79.65	5.2140
	Interference Check Solution AB	Sr (216.596 nm)	0.0116	1.51	203.3972
	Interference Check Solution AB	Ti (336.122 nm)	0.0027	11.83	540.6934
	Interference Check Solution AB	Tl (190.794 nm)	0.1074	1.70	103.7661
	Interference Check Solution AB	V (292.401 nm)	0.5271	0.15	19941.2891
	Interference Check Solution AB	Y (360.074 nm)	0.88	0.36	429785.79
	Interference Check Solution AB	Y_R (360.074 nm)	0.88	0.36	429009.91
	Interference Check Solution AB	Zn (213.857 nm)	1.0518	0.12	67323.0957
6/10/2024 15:56:06	Continuing Calibration Verification	Ag (328.068 nm)	0.5103	0.05	28695.4415
	Continuing Calibration Verification	Al (237.312 nm)	10.0276	0.12	24800.1178
	Continuing Calibration Verification	As (188.980 nm)	0.9887	0.29	1674.7209
	Continuing Calibration Verification	B (249.772 nm)	2.4862	0.07	80736.6535
	Continuing Calibration Verification	Ba (230.424 nm)	9.8261	0.14	535008.9462
	Continuing Calibration Verification	Be (313.107 nm)	0.2466	0.17	270671.8527
	Continuing Calibration Verification	Ca (317.933 nm)	25.9130	0.24	925774.8858
	Continuing Calibration Verification	Cd (214.439 nm)	0.5072	0.30	28896.6990
	Continuing Calibration Verification	Co (230.786 nm)	2.5150	0.19	45596.0432
	Continuing Calibration Verification	Cr (267.716 nm)	0.5177	0.27	26914.8224
	Continuing Calibration Verification	Cu (327.395 nm)	1.2360	0.33	54231.0835
	Continuing Calibration Verification	Fe (234.350 nm)	5.0906	0.22	92689.1131
	Continuing Calibration Verification	K (766.491 nm)	24.3371	0.30	26515.4536
	Continuing Calibration Verification	Mg (279.078 nm)	25.5384	0.19	83427.3720
	Continuing Calibration Verification	Mn (257.610 nm)	0.7474	0.18	249606.5506
	Continuing Calibration Verification	Mo (202.032 nm)	2.5913	0.16	27061.5761
	Continuing Calibration Verification	Na (588.995 nm)	25.4771	0.53	333334.1530
	Continuing Calibration Verification	Ni (230.299 nm)	2.0831	0.21	24487.1964
	Continuing Calibration Verification	Pb (220.353 nm)	0.5131	0.27	2686.5942
	Continuing Calibration Verification	Sb (217.582 nm)	4.9975	0.09	9289.7838
	Continuing Calibration Verification	Se (196.026 nm)	0.4880	1.02	360.4740
	Continuing Calibration Verification	Si (252.851 nm)	10.2718	0.33	39171.7555
	Continuing Calibration Verification	Sn (189.925 nm)	5.1006	0.13	12562.7298
	Continuing Calibration Verification	Sr (216.596 nm)	2.4610	0.32	43311.0511
	Continuing Calibration Verification	Ti (336.122 nm)	2.5552	0.03	369323.4262
	Continuing Calibration Verification	Tl (190.794 nm)	0.9918	0.21	967.9484
	Continuing Calibration Verification	V (292.401 nm)	2.5264	0.19	95740.1863
	Continuing Calibration Verification	Y (360.074 nm)	0.96	0.38	469448.88
	Continuing Calibration Verification	Y_R (360.074 nm)	0.96	0.38	468624.26
	Continuing Calibration Verification	Zn (213.857 nm)	0.9964	0.10	63778.6008
6/10/2024 15:59:20	Continuing Calibration Blank	Ag (328.068 nm)	-0.0002 u	79.95	-224.5166
	Continuing Calibration Blank	Al (237.312 nm)	0.0037	22.76	21.5124
	Continuing Calibration Blank	As (188.980 nm)	-0.0001 u	> 100.00	-2.2047
	Continuing Calibration Blank	B (249.772 nm)	0.0023	19.85	79.6264

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Ba (230.424 nm)	0.0004	11.16	34.1947
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	50.34	34.6174
	Continuing Calibration Blank	Ca (317.933 nm)	0.0065	0.85	2975.7485
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	3.2638
	Continuing Calibration Blank	Co (230.786 nm)	0.0001 u	> 100.00	-8.7408
	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u	> 100.00	6.7100
	Continuing Calibration Blank	Cu (327.395 nm)	0.0001 u	> 100.00	-22.3285
	Continuing Calibration Blank	Fe (234.350 nm)	0.0027	37.59	48.1345
	Continuing Calibration Blank	K (766.491 nm)	0.0316 u	> 100.00	-157.4037
	Continuing Calibration Blank	Mg (279.078 nm)	0.0027	9.74	-20.9112
	Continuing Calibration Blank	Mn (257.610 nm)	0.0001	5.72	36.1504
	Continuing Calibration Blank	Mo (202.032 nm)	0.0030	42.12	42.9075
	Continuing Calibration Blank	Na (588.995 nm)	0.0086	36.17	-13505.5519
	Continuing Calibration Blank	Ni (230.299 nm)	0.0001 u	> 100.00	26.4103
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0001 u	> 100.00	7.5553
	Continuing Calibration Blank	Sb (217.582 nm)	0.0046	56.53	15.1945
	Continuing Calibration Blank	Se (196.026 nm)	-0.0010 u	> 100.00	4.0824
	Continuing Calibration Blank	Si (252.851 nm)	0.0028	36.57	43.1451
	Continuing Calibration Blank	Sn (189.925 nm)	0.0003 u	> 100.00	3.6929
	Continuing Calibration Blank	Sr (216.596 nm)	0.0003	44.77	4.1721
	Continuing Calibration Blank	Ti (336.122 nm)	0.0024	40.24	503.2821
	Continuing Calibration Blank	Tl (190.794 nm)	0.0015	29.32	0.2667
	Continuing Calibration Blank	V (292.401 nm)	0.0000 u	> 100.00	-39.3589
	Continuing Calibration Blank	Y (360.074 nm)	1.00	0.24	488125.47
	Continuing Calibration Blank	Y_R (360.074 nm)	1.00	0.24	487260.55
	Continuing Calibration Blank	Zn (213.857 nm)	0.0010	3.26	62.5000
6/10/2024 16:02:33	LOD CHECK	Ag (328.068 nm)	0.0054	4.39	90.1854
	LOD CHECK	Al (237.312 nm)	0.1218	4.39	313.4030
	LOD CHECK	As (188.980 nm)	0.0044	18.48	5.3783
	LOD CHECK	B (249.772 nm)	0.1015	0.02	3299.9236
	LOD CHECK	Ba (230.424 nm)	0.0123	1.98	683.6593
	LOD CHECK	Be (313.107 nm)	0.0016	0.60	1755.5138
	LOD CHECK	Ca (317.933 nm)	0.6006	0.94	24137.9440
	LOD CHECK	Cd (214.439 nm)	0.0031	1.76	177.8305
	LOD CHECK	Co (230.786 nm)	0.0020	8.27	26.0672
	LOD CHECK	Cr (267.716 nm)	0.0060	2.03	316.7705
	LOD CHECK	Cu (327.395 nm)	0.0057	3.41	222.4298
	LOD CHECK	Fe (234.350 nm)	0.0871	3.04	1585.6034
	LOD CHECK	K (766.491 nm)	0.9999 100%	2.08	905.2637
	LOD CHECK	Mg (279.078 nm)	0.5887	0.67	1893.9246
	LOD CHECK	Mn (257.610 nm)	0.0057	0.43	1937.4876
	LOD CHECK	Mo (202.032 nm)	0.0138	1.19	156.5707
	LOD CHECK	Na (588.995 nm)	0.5297	0.20	-6409.2979
	LOD CHECK	Ni (230.299 nm)	0.0212	2.84	274.0797
	LOD CHECK	Pb (220.353 nm)	0.0036	8.23	26.9115
	LOD CHECK	Sb (217.582 nm)	0.0556	4.07	109.8267
	LOD CHECK	Se (196.026 nm)	0.0058	53.85	9.0239
	LOD CHECK	Si (252.851 nm)	0.0283	2.50	140.5544
	LOD CHECK	Sn (189.925 nm)	0.2585	0.37	639.4825
	LOD CHECK	Sr (216.596 nm)	0.0502	0.46	882.1518
	LOD CHECK	Ti (336.122 nm)	0.0263	1.58	3948.0255
	LOD CHECK	Tl (190.794 nm)	0.0058	41.10	4.4877
	LOD CHECK	V (292.401 nm)	0.0260	0.72	943.7755
	LOD CHECK	Y (360.074 nm)	1.01	0.54	492812.98
	LOD CHECK	Y_R (360.074 nm)	1.01	0.54	491951.29
	LOD CHECK	Zn (213.857 nm)	0.0108	0.18	691.4532
6/10/2024 16:05:48	PBW-439549	Ag (328.068 nm)	-0.0001 u	69.06	-220.0515

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	PBW-439549	Al (237.312 nm)	0.0195	15.75	60.5470
	PBW-439549	As (188.980 nm)	-0.0009 u	> 100.00	-3.5145
	PBW-439549	B (249.772 nm)	0.0024	10.62	84.5358
	PBW-439549	Ba (230.424 nm)	0.0005	26.53	40.3261
	PBW-439549	Be (313.107 nm)	0.0000	15.86	62.8852
	PBW-439549	Ca (317.933 nm)	0.0206	9.84	3478.1759
	PBW-439549	Cd (214.439 nm)	0.0003	2.88	17.9977
	PBW-439549	Co (230.786 nm)	0.0003	94.27	-4.8921
	PBW-439549	Cr (267.716 nm)	0.0002	42.21	18.5908
	PBW-439549	Cu (327.395 nm)	0.0001 u	> 100.00	-24.7001
	PBW-439549	Fe (234.350 nm)	0.0075	12.58	136.7041
	PBW-439549	K (766.491 nm)	0.0091 u	> 100.00	-182.0831
	PBW-439549	Mg (279.078 nm)	0.0202	13.62	36.0760
	PBW-439549	Mn (257.610 nm)	0.0001	18.09	55.9296
	PBW-439549	Mo (202.032 nm)	0.0004	89.13	16.5026
	PBW-439549	Na (588.995 nm)	0.0083 u	89.21	-13509.7877
	PBW-439549	Ni (230.299 nm)	0.0000 u	> 100.00	25.8013
	PBW-439549	Pb (220.353 nm)	0.0004	52.35	9.8671
	PBW-439549	Sb (217.582 nm)	0.0133	7.09	31.3546
	PBW-439549	Se (196.026 nm)	-0.0004 u	> 100.00	4.5218
	PBW-439549	Si (252.851 nm)	0.0106	6.42	73.0012
	PBW-439549	Sn (189.925 nm)	0.0000 u	> 100.00	3.0427
	PBW-439549	Sr (216.596 nm)	0.0005	5.03	7.5235
	PBW-439549	Ti (336.122 nm)	0.0004	61.62	211.6500
	PBW-439549	Tl (190.794 nm)	0.0004 u	> 100.00	-0.7697
	PBW-439549	V (292.401 nm)	0.0004	22.54	-25.2712
	PBW-439549	Y (360.074 nm)	1.00	1.44	490795.95
	PBW-439549	Y_R (360.074 nm)	1.00	1.44	489944.21
	PBW-439549	Zn (213.857 nm)	-0.0002 u	48.79	-10.8077
6/10/2024 16:09:02	LCSW-439549	Ag (328.068 nm)	0.0510	0.06	2673.5287
	LCSW-439549	Al (237.312 nm)	2.0401	0.19	5055.2171
	LCSW-439549	As (188.980 nm)	0.0374	1.07	61.3582
	LCSW-439549	B (249.772 nm)	1.0094	0.19	32783.3967
	LCSW-439549	Ba (230.424 nm)	1.9805	0.25	107841.2104
	LCSW-439549	Be (313.107 nm)	0.0501	0.23	55051.9782
	LCSW-439549	Ca (317.933 nm)	2.0837	0.34	76964.6761
	LCSW-439549	Cd (214.439 nm)	0.0524	0.20	2987.9774
	LCSW-439549	Co (230.786 nm)	0.5111	0.10	9259.2063
	LCSW-439549	Cr (267.716 nm)	0.2065	0.20	10741.8104
	LCSW-439549	Cu (327.395 nm)	0.2558	0.13	11203.0783
	LCSW-439549	Fe (234.350 nm)	1.0459	0.28	19044.0238
	LCSW-439549	K (766.491 nm)	19.3246	0.18	21014.7015
	LCSW-439549	Mg (279.078 nm)	2.0177	0.32	6563.8642
	LCSW-439549	Mn (257.610 nm)	0.4991	0.20	166700.8794
	LCSW-439549	Mo (202.032 nm)	0.5031	0.56	5263.2973
	LCSW-439549	Na (588.995 nm)	20.2338	0.33	261929.2093
	LCSW-439549	Ni (230.299 nm)	0.5290	0.40	6236.8830
	LCSW-439549	Pb (220.353 nm)	0.5309	0.34	2779.7312
	LCSW-439549	Sb (217.582 nm)	0.5136	0.24	960.5547
	LCSW-439549	Se (196.026 nm)	1.0168	0.27	745.9558
	LCSW-439549	Si (252.851 nm)	-0.0031 u	71.89	20.8091
	LCSW-439549	Sn (189.925 nm)	5.0980	0.21	12556.3272
	LCSW-439549	Sr (216.596 nm)	1.9999	0.32	35196.2253
	LCSW-439549	Ti (336.122 nm)	0.5043	0.17	73013.6357
	LCSW-439549	Tl (190.794 nm)	1.9980	0.07	1951.1626
	LCSW-439549	V (292.401 nm)	0.5001	0.33	18921.1355
	LCSW-439549	Y (360.074 nm)	0.98	0.20	481004.73

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	LCSW-439549	Y_R (360.074 nm)	0.98	0.20	480133.07
	LCSW-439549	Zn (213.857 nm)	0.5177	0.18	33140.6619
6/10/2024 16:12:16	R2404536-001 20X	Ag (328.068 nm)	-0.0002 u	11.87	-226.7076
	R2404536-001 20X	Al (237.312 nm)	0.0173	7.53	55.1213
	R2404536-001 20X	As (188.980 nm)	-0.0001 u	> 100.00	-2.1320
	R2404536-001 20X	B (249.772 nm)	0.1927	0.34	6261.4571
	R2404536-001 20X	Ba (230.424 nm)	0.0005	21.01	38.7431
	R2404536-001 20X	Be (313.107 nm)	0.0000	50.80	29.1618
	R2404536-001 20X	Ca (317.933 nm)	15.5456	0.35	556484.8895
	R2404536-001 20X	Cd (214.439 nm)	0.0001	32.69	6.9059
	R2404536-001 20X	Co (230.786 nm)	-0.0001 u	> 100.00	-11.7290
	R2404536-001 20X	Cr (267.716 nm)	0.0000 u	> 100.00	5.9428
	R2404536-001 20X	Cu (327.395 nm)	0.0004	92.30	-11.8474
	R2404536-001 20X	Fe (234.350 nm)	0.0069	7.94	124.4963
	R2404536-001 20X	K (766.491 nm)	16.3051	0.25	17701.1874
	R2404536-001 20X	Mg (279.078 nm)	48.8048	0.38	159460.1260
	R2404536-001 20X	Mn (257.610 nm)	0.0013	0.80	468.9990
	R2404536-001 20X	Mo (202.032 nm)	0.0022	22.58	35.0957
	R2404536-001 20X	Na (588.995 nm)	364.4753 o	0.71	4949942.7321
	R2404536-001 20X	Ni (230.299 nm)	0.0004	81.47	30.4169
	R2404536-001 20X	Pb (220.353 nm)	0.0008 u	> 100.00	12.2478
	R2404536-001 20X	Sb (217.582 nm)	0.0028 u	> 100.00	11.7081
	R2404536-001 20X	Se (196.026 nm)	0.0023	46.03	6.4878
	R2404536-001 20X	Si (252.851 nm)	0.1312	1.05	532.7207
	R2404536-001 20X	Sn (189.925 nm)	0.0007	99.85	4.7700
	R2404536-001 20X	Sr (216.596 nm)	0.2753	0.31	4844.3416
	R2404536-001 20X	Ti (336.122 nm)	0.0010	35.16	306.4941
	R2404536-001 20X	Tl (190.794 nm)	0.0018	92.18	0.5064
	R2404536-001 20X	V (292.401 nm)	0.0001 u	> 100.00	-38.0344
	R2404536-001 20X	Y (360.074 nm)	0.91	0.26	442658.55
	R2404536-001 20X	Y_R (360.074 nm)	0.91	0.26	441830.77
	R2404536-001 20X	Zn (213.857 nm)	0.0045	2.62	290.5078
6/10/2024 16:15:29	R2404536-001S 20X	Ag (328.068 nm)	0.0025	4.46	-74.7645
	R2404536-001S 20X	Al (237.312 nm)	0.1206	1.54	310.4536
	R2404536-001S 20X	As (188.980 nm)	0.0034 u	90.10	3.7941
	R2404536-001S 20X	B (249.772 nm)	0.2392	0.24	7774.1999
	R2404536-001S 20X	Ba (230.424 nm)	0.1012	0.39	5524.1923
	R2404536-001S 20X	Be (313.107 nm)	0.0027	0.15	2939.4139
	R2404536-001S 20X	Ca (317.933 nm)	15.8477	0.26	567246.3219
	R2404536-001S 20X	Cd (214.439 nm)	0.0028	2.82	160.4308
	R2404536-001S 20X	Co (230.786 nm)	0.0258	0.94	458.8909
	R2404536-001S 20X	Cr (267.716 nm)	0.0104	0.81	547.4886
	R2404536-001S 20X	Cu (327.395 nm)	0.0137	1.86	575.7084
	R2404536-001S 20X	Fe (234.350 nm)	0.0592	0.31	1077.9693
	R2404536-001S 20X	K (766.491 nm)	17.8265	0.54	19370.6866
	R2404536-001S 20X	Mg (279.078 nm)	49.7886	0.30	162675.1952
	R2404536-001S 20X	Mn (257.610 nm)	0.0270	0.29	9034.1263
	R2404536-001S 20X	Mo (202.032 nm)	0.0266	2.04	289.5847
	R2404536-001S 20X	Na (588.995 nm)	372.6330 o	0.92	5061037.3685
	R2404536-001S 20X	Ni (230.299 nm)	0.0275	1.76	348.2175
	R2404536-001S 20X	Pb (220.353 nm)	0.0267	5.86	147.4709
	R2404536-001S 20X	Sb (217.582 nm)	0.0270	6.48	56.7398
	R2404536-001S 20X	Se (196.026 nm)	0.0574	7.96	46.6398
	R2404536-001S 20X	Si (252.851 nm)	0.0407	1.48	187.6259
	R2404536-001S 20X	Sn (189.925 nm)	0.2604	0.78	644.3363
	R2404536-001S 20X	Sr (216.596 nm)	0.3809	0.30	6702.4095
	R2404536-001S 20X	Ti (336.122 nm)	0.0266	0.28	4005.0930

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404536-001S 20X	Tl (190.794 nm)	0.1009	2.13	97.3680
	R2404536-001S 20X	V (292.401 nm)	0.0262	0.66	953.1303
	R2404536-001S 20X	Y (360.074 nm)	0.90	0.18	438708.66
	R2404536-001S 20X	Y_R (360.074 nm)	0.90	0.18	437890.64
	R2404536-001S 20X	Zn (213.857 nm)	0.0322	0.68	2058.7211
6/10/2024 16:18:44	R2404536-001SD 20X	Ag (328.068 nm)	0.0023	5.30	-84.1247
	R2404536-001SD 20X	Al (237.312 nm)	0.1173	0.48	302.3089
	R2404536-001SD 20X	As (188.980 nm)	0.0006 u	> 100.00	-1.0398
	R2404536-001SD 20X	B (249.772 nm)	0.2354	0.30	7648.2250
	R2404536-001SD 20X	Ba (230.424 nm)	0.0999	0.22	5450.5375
	R2404536-001SD 20X	Be (313.107 nm)	0.0026	0.36	2914.1406
	R2404536-001SD 20X	Ca (317.933 nm)	15.6159	0.32	558986.6847
	R2404536-001SD 20X	Cd (214.439 nm)	0.0028	1.18	160.7667
	R2404536-001SD 20X	Co (230.786 nm)	0.0254	0.99	450.1216
	R2404536-001SD 20X	Cr (267.716 nm)	0.0104	0.57	545.9360
	R2404536-001SD 20X	Cu (327.395 nm)	0.0136	2.00	567.2862
	R2404536-001SD 20X	Fe (234.350 nm)	0.0583	0.64	1060.7654
	R2404536-001SD 20X	K (766.491 nm)	17.6081	0.27	19131.0929
	R2404536-001SD 20X	Mg (279.078 nm)	49.0198	0.30	160162.6253
	R2404536-001SD 20X	Mn (257.610 nm)	0.0266	0.15	8914.6962
	R2404536-001SD 20X	Mo (202.032 nm)	0.0263	1.45	286.2379
	R2404536-001SD 20X	Na (588.995 nm)	367.0431 o	0.42	4984911.3852
	R2404536-001SD 20X	Ni (230.299 nm)	0.0268	0.89	339.6068
	R2404536-001SD 20X	Pb (220.353 nm)	0.0259	0.63	142.9191
	R2404536-001SD 20X	Sb (217.582 nm)	0.0274	7.90	57.5563
	R2404536-001SD 20X	Se (196.026 nm)	0.0569	10.23	46.2658
	R2404536-001SD 20X	Si (252.851 nm)	0.0429	3.19	196.0669
	R2404536-001SD 20X	Sn (189.925 nm)	0.2582	0.29	638.8411
	R2404536-001SD 20X	Sr (216.596 nm)	0.3747	0.33	6594.2691
	R2404536-001SD 20X	Ti (336.122 nm)	0.0262	0.63	3938.9963
	R2404536-001SD 20X	Tl (190.794 nm)	0.0997	2.62	96.2092
	R2404536-001SD 20X	V (292.401 nm)	0.0258	1.21	938.2924
	R2404536-001SD 20X	Y (360.074 nm)	0.90	0.40	441452.06
	R2404536-001SD 20X	Y_R (360.074 nm)	0.90	0.40	440632.02
	R2404536-001SD 20X	Zn (213.857 nm)	0.0317	0.33	2027.5952
6/10/2024 16:24:02	R2404536-001A 20X	Ag (328.068 nm)	0.0505	0.14	2644.5039
	R2404536-001A 20X	Al (237.312 nm)	2.0110	0.25	4983.4451
	R2404536-001A 20X	As (188.980 nm)	0.0388	2.14	63.8322
	R2404536-001A 20X	B (249.772 nm)	1.2111	0.18	39332.6721
	R2404536-001A 20X	Ba (230.424 nm)	1.8711	0.24	101885.5821
	R2404536-001A 20X	Be (313.107 nm)	0.0491	0.13	53912.4451
	R2404536-001A 20X	Ca (317.933 nm)	17.1972	0.14	615316.3940
	R2404536-001A 20X	Cd (214.439 nm)	0.0497	0.38	2831.4746
	R2404536-001A 20X	Co (230.786 nm)	0.4827	0.18	8742.7917
	R2404536-001A 20X	Cr (267.716 nm)	0.1949	0.15	10139.0891
	R2404536-001A 20X	Cu (327.395 nm)	0.2487	0.18	10887.9588
	R2404536-001A 20X	Fe (234.350 nm)	0.9929	0.16	18078.5206
	R2404536-001A 20X	K (766.491 nm)	36.7827	0.23	40173.1856
	R2404536-001A 20X	Mg (279.078 nm)	49.4395	0.21	161534.2140
	R2404536-001A 20X	Mn (257.610 nm)	0.4783	0.16	159740.1144
	R2404536-001A 20X	Mo (202.032 nm)	0.4920	0.34	5148.1890
	R2404536-001A 20X	Na (588.995 nm)	371.2645 o	0.15	5042400.4571
	R2404536-001A 20X	Ni (230.299 nm)	0.5018	0.12	5917.3128
	R2404536-001A 20X	Pb (220.353 nm)	0.4941	0.13	2587.6638
	R2404536-001A 20X	Sb (217.582 nm)	0.5159	0.45	964.9120
	R2404536-001A 20X	Se (196.026 nm)	1.1003 o	0.27	806.8329
	R2404536-001A 20X	Si (252.851 nm)	0.0554	1.79	243.8759

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404536-001A 20X	Sn (189.925 nm)	4.9256	0.09	12131.8129
	R2404536-001A 20X	Sr (216.596 nm)	2.1771	0.19	38315.5028
	R2404536-001A 20X	Ti (336.122 nm)	0.4872	0.11	70545.3259
	R2404536-001A 20X	Tl (190.794 nm)	1.8517	0.37	1808.1665
	R2404536-001A 20X	V (292.401 nm)	0.4822	0.07	18239.5350
	R2404536-001A 20X	Y (360.074 nm)	0.91	0.21	443544.26
	R2404536-001A 20X	Y_R (360.074 nm)	0.91	0.21	442706.29
	R2404536-001A 20X	Zn (213.857 nm)	0.5207	0.16	33326.8616
6/10/2024 16:27:16	R2404536-001L 100X	Ag (328.068 nm)	-0.0003 u	33.12	-229.0031
	R2404536-001L 100X	Al (237.312 nm)	0.0078	12.32	31.4888
	R2404536-001L 100X	As (188.980 nm)	-0.0010 u	> 100.00	-3.7135
	R2404536-001L 100X	B (249.772 nm)	0.0383	1.29	1247.5407
	R2404536-001L 100X	Ba (230.424 nm)	0.0001	47.97	15.3859
	R2404536-001L 100X	Be (313.107 nm)	0.0000 u	84.25	13.4973
	R2404536-001L 100X	Ca (317.933 nm)	3.2397	0.19	118140.8344
	R2404536-001L 100X	Cd (214.439 nm)	0.0000 u	> 100.00	3.1445
	R2404536-001L 100X	Co (230.786 nm)	0.0001 u	> 100.00	-8.7456
	R2404536-001L 100X	Cr (267.716 nm)	0.0001	81.51	9.9249
	R2404536-001L 100X	Cu (327.395 nm)	-0.0001 u	32.55	-31.2399
	R2404536-001L 100X	Fe (234.350 nm)	0.0026	23.11	46.8483
	R2404536-001L 100X	K (766.491 nm)	3.0346	0.41	3138.1108
	R2404536-001L 100X	Mg (279.078 nm)	9.5383	0.16	31140.4047
	R2404536-001L 100X	Mn (257.610 nm)	0.0004	4.86	138.7841
	R2404536-001L 100X	Mo (202.032 nm)	0.0022	45.78	34.9387
	R2404536-001L 100X	Na (588.995 nm)	76.4601 o	0.15	1027640.4194
	R2404536-001L 100X	Ni (230.299 nm)	0.0002 u	> 100.00	27.4960
	R2404536-001L 100X	Pb (220.353 nm)	0.0002 u	> 100.00	9.0024
	R2404536-001L 100X	Sb (217.582 nm)	-0.0004 u	> 100.00	5.8014
	R2404536-001L 100X	Se (196.026 nm)	0.0015	51.47	5.9024
	R2404536-001L 100X	Si (252.851 nm)	0.0459	3.81	207.5668
	R2404536-001L 100X	Sn (189.925 nm)	0.0018	75.48	7.5584
	R2404536-001L 100X	Sr (216.596 nm)	0.0550	0.21	968.1850
	R2404536-001L 100X	Ti (336.122 nm)	0.0010	46.89	292.8976
	R2404536-001L 100X	Tl (190.794 nm)	0.0011	> 100.00	-0.0863
	R2404536-001L 100X	V (292.401 nm)	0.0000 u	> 100.00	-40.2265
	R2404536-001L 100X	Y (360.074 nm)	0.97	0.39	473925.60
	R2404536-001L 100X	Y_R (360.074 nm)	0.97	0.39	473041.03
	R2404536-001L 100X	Zn (213.857 nm)	0.0013	3.77	81.9447
6/10/2024 16:30:30	R2404536-002 20X	Ag (328.068 nm)	-0.0003 u	45.40	-233.0328
	R2404536-002 20X	Al (237.312 nm)	0.0043	15.79	22.8420
	R2404536-002 20X	As (188.980 nm)	-0.0014 u	46.66	-4.4688
	R2404536-002 20X	B (249.772 nm)	0.1800	0.23	5851.0254
	R2404536-002 20X	Ba (230.424 nm)	0.0003	10.30	28.2658
	R2404536-002 20X	Be (313.107 nm)	0.0000 u	> 100.00	26.2489
	R2404536-002 20X	Ca (317.933 nm)	15.5020	0.06	554931.0017
	R2404536-002 20X	Cd (214.439 nm)	0.0001	> 100.00	5.6929
	R2404536-002 20X	Co (230.786 nm)	-0.0002 u	72.45	-13.6742
	R2404536-002 20X	Cr (267.716 nm)	0.0001 u	> 100.00	12.8366
	R2404536-002 20X	Cu (327.395 nm)	0.0002	79.90	-17.0338
	R2404536-002 20X	Fe (234.350 nm)	0.0058	13.25	104.5339
	R2404536-002 20X	K (766.491 nm)	16.3757	0.32	17778.6432
	R2404536-002 20X	Mg (279.078 nm)	48.9387	0.18	159897.8033
	R2404536-002 20X	Mn (257.610 nm)	0.0013	0.31	449.3476
	R2404536-002 20X	Mo (202.032 nm)	0.0010	17.98	22.2783
	R2404536-002 20X	Na (588.995 nm)	365.9352 o	0.15	4969824.1985
	R2404536-002 20X	Ni (230.299 nm)	0.0006	62.80	31.9334
	R2404536-002 20X	Pb (220.353 nm)	-0.0003 u	88.83	6.2006

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404536-002 20X	Sb (217.582 nm)	-0.0009 u	92.15	4.9150
	R2404536-002 20X	Se (196.026 nm)	-0.0010 u	> 100.00	4.0712
	R2404536-002 20X	Si (252.851 nm)	0.0289	3.39	142.8554
	R2404536-002 20X	Sn (189.925 nm)	0.0007 u	> 100.00	4.7137
	R2404536-002 20X	Sr (216.596 nm)	0.2752	0.47	4842.9896
	R2404536-002 20X	Ti (336.122 nm)	0.0005	29.78	230.7625
	R2404536-002 20X	Tl (190.794 nm)	0.0021	76.09	0.8178
	R2404536-002 20X	V (292.401 nm)	0.0001 u	> 100.00	-35.7746
	R2404536-002 20X	Y (360.074 nm)	0.90	0.50	441963.65
	R2404536-002 20X	Y_R (360.074 nm)	0.90	0.50	441114.31
	R2404536-002 20X	Zn (213.857 nm)	0.0034	2.94	216.1633
6/10/2024 16:33:45	R2404536-002S 20X	Ag (328.068 nm)	0.0024	4.23	-81.3660
	R2404536-002S 20X	Al (237.312 nm)	0.1126	1.28	290.5641
	R2404536-002S 20X	As (188.980 nm)	0.0018	89.91	1.0524
	R2404536-002S 20X	B (249.772 nm)	0.2356	0.09	7655.5468
	R2404536-002S 20X	Ba (230.424 nm)	0.0999	0.23	5448.7558
	R2404536-002S 20X	Be (313.107 nm)	0.0026	0.59	2908.3123
	R2404536-002S 20X	Ca (317.933 nm)	15.6260	0.15	559346.6361
	R2404536-002S 20X	Cd (214.439 nm)	0.0027	1.44	156.3773
	R2404536-002S 20X	Co (230.786 nm)	0.0256	1.93	454.7957
	R2404536-002S 20X	Cr (267.716 nm)	0.0103	1.04	539.6642
	R2404536-002S 20X	Cu (327.395 nm)	0.0136	1.42	569.4405
	R2404536-002S 20X	Fe (234.350 nm)	0.0536	0.33	976.1784
	R2404536-002S 20X	K (766.491 nm)	17.5853	0.34	19106.0915
	R2404536-002S 20X	Mg (279.078 nm)	49.2656	0.16	160965.8371
	R2404536-002S 20X	Mn (257.610 nm)	0.0265	0.09	8872.6597
	R2404536-002S 20X	Mo (202.032 nm)	0.0260	0.90	283.7790
	R2404536-002S 20X	Na (588.995 nm)	367.4659 o	0.36	4990670.2161
	R2404536-002S 20X	Ni (230.299 nm)	0.0274	1.61	346.5190
	R2404536-002S 20X	Pb (220.353 nm)	0.0263	0.87	145.3306
	R2404536-002S 20X	Sb (217.582 nm)	0.0272	8.39	57.0606
	R2404536-002S 20X	Se (196.026 nm)	0.0544	8.40	44.3988
	R2404536-002S 20X	Si (252.851 nm)	0.0352	1.68	166.6809
	R2404536-002S 20X	Sn (189.925 nm)	0.2591	0.91	641.0174
	R2404536-002S 20X	Sr (216.596 nm)	0.3765	0.09	6625.9508
	R2404536-002S 20X	Ti (336.122 nm)	0.0260	0.47	3918.0172
	R2404536-002S 20X	Tl (190.794 nm)	0.0989	1.57	95.4629
	R2404536-002S 20X	V (292.401 nm)	0.0259	0.84	941.1271
	R2404536-002S 20X	Y (360.074 nm)	0.90	0.37	441509.99
	R2404536-002S 20X	Y_R (360.074 nm)	0.90	0.37	440657.17
	R2404536-002S 20X	Zn (213.857 nm)	0.0309	0.46	1978.2708
6/10/2024 16:36:59	Continuing Calibration Verification	Ag (328.068 nm)	0.5078	0.13	28551.3969
	Continuing Calibration Verification	Al (237.312 nm)	9.9201	0.10	24534.3006
	Continuing Calibration Verification	As (188.980 nm)	0.9817	0.20	1662.8386
	Continuing Calibration Verification	B (249.772 nm)	2.4637	0.08	80006.0671
	Continuing Calibration Verification	Ba (230.424 nm)	9.7498	0.25	530858.3636
	Continuing Calibration Verification	Be (313.107 nm)	0.2443	0.24	268162.7473
	Continuing Calibration Verification	Ca (317.933 nm)	25.6759	0.24	917328.4048
	Continuing Calibration Verification	Cd (214.439 nm)	0.5022	0.33	28612.5227
	Continuing Calibration Verification	Co (230.786 nm)	2.4990	0.15	45306.1734
	Continuing Calibration Verification	Cr (267.716 nm)	0.5145	0.17	26749.5952
	Continuing Calibration Verification	Cu (327.395 nm)	1.2322	0.64	54064.4280
	Continuing Calibration Verification	Fe (234.350 nm)	5.0277	0.18	91544.8791
	Continuing Calibration Verification	K (766.491 nm)	24.3498	0.51	26529.3766
	Continuing Calibration Verification	Mg (279.078 nm)	25.3249	0.17	82729.7167
	Continuing Calibration Verification	Mn (257.610 nm)	0.7421	0.18	247840.2244
	Continuing Calibration Verification	Mo (202.032 nm)	2.5891	0.34	27038.4911

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	Na (588.995 nm)	25.5752	0.67	334670.0491
	Continuing Calibration Verification	Ni (230.299 nm)	2.0626	0.15	24245.5832
	Continuing Calibration Verification	Pb (220.353 nm)	0.5093	0.21	2666.9089
	Continuing Calibration Verification	Sb (217.582 nm)	4.9249	0.09	9154.9324
	Continuing Calibration Verification	Se (196.026 nm)	0.4794	0.54	354.2274
	Continuing Calibration Verification	Si (252.851 nm)	10.1398	0.18	38669.0775
	Continuing Calibration Verification	Sn (189.925 nm)	5.0409	0.16	12415.6726
	Continuing Calibration Verification	Sr (216.596 nm)	2.4472	0.28	43068.4003
	Continuing Calibration Verification	Ti (336.122 nm)	2.5373	0.06	366743.2086
	Continuing Calibration Verification	Tl (190.794 nm)	0.9835	0.17	959.7916
	Continuing Calibration Verification	V (292.401 nm)	2.5138	0.17	95262.8675
	Continuing Calibration Verification	Y (360.074 nm)	0.97	0.46	473206.87
	Continuing Calibration Verification	Y_R (360.074 nm)	0.97	0.46	472319.65
	Continuing Calibration Verification	Zn (213.857 nm)	0.9899	0.20	63363.5732
6/10/2024 16:40:13	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u	31.33	-217.2513
	Continuing Calibration Blank	Al (237.312 nm)	0.0014	16.59	15.8120
	Continuing Calibration Blank	As (188.980 nm)	0.0004 u	> 100.00	-1.2770
	Continuing Calibration Blank	B (249.772 nm)	0.0019	19.48	65.7118
	Continuing Calibration Blank	Ba (230.424 nm)	0.0004	53.31	32.2119
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	58.51	39.3375
	Continuing Calibration Blank	Ca (317.933 nm)	0.0063	9.01	2968.1212
	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 u	> 100.00	5.1651
	Continuing Calibration Blank	Co (230.786 nm)	0.0000 u	> 100.00	-9.9333
	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u	> 100.00	4.7097
	Continuing Calibration Blank	Cu (327.395 nm)	0.0001 u	> 100.00	-23.8021
	Continuing Calibration Blank	Fe (234.350 nm)	0.0020	39.91	35.1715
	Continuing Calibration Blank	K (766.491 nm)	0.1216	11.03	-58.5434
	Continuing Calibration Blank	Mg (279.078 nm)	0.0023	45.38	-22.1161
	Continuing Calibration Blank	Mn (257.610 nm)	0.0001	13.23	42.7502
	Continuing Calibration Blank	Mo (202.032 nm)	0.0033	34.94	46.6997
	Continuing Calibration Blank	Na (588.995 nm)	0.1226	4.72	-11952.5282
	Continuing Calibration Blank	Ni (230.299 nm)	0.0001 u	> 100.00	25.9435
	Continuing Calibration Blank	Pb (220.353 nm)	0.0003	45.66	9.5085
	Continuing Calibration Blank	Sb (217.582 nm)	0.0017	77.69	9.7001
	Continuing Calibration Blank	Se (196.026 nm)	0.0020 u	> 100.00	6.2200
	Continuing Calibration Blank	Si (252.851 nm)	0.0023	35.24	41.2536
	Continuing Calibration Blank	Sn (189.925 nm)	0.0003 u	> 100.00	3.7510
	Continuing Calibration Blank	Sr (216.596 nm)	0.0004	46.71	6.6870
	Continuing Calibration Blank	Ti (336.122 nm)	0.0025	47.47	509.7053
	Continuing Calibration Blank	Tl (190.794 nm)	0.0028	55.40	1.5656
	Continuing Calibration Blank	V (292.401 nm)	0.0002	81.11	-33.9584
	Continuing Calibration Blank	Y (360.074 nm)	1.00	0.24	490233.70
	Continuing Calibration Blank	Y_R (360.074 nm)	1.00	0.24	489324.35
	Continuing Calibration Blank	Zn (213.857 nm)	0.0009	6.67	60.2444
6/10/2024 16:43:27	R2404536-002SD 20X	Ag (328.068 nm)	0.0025	1.42	-71.6845
	R2404536-002SD 20X	Al (237.312 nm)	0.1121	1.49	289.3803
	R2404536-002SD 20X	As (188.980 nm)	0.0024	31.22	2.0661
	R2404536-002SD 20X	B (249.772 nm)	0.2374	0.11	7713.8683
	R2404536-002SD 20X	Ba (230.424 nm)	0.1005	0.08	5484.4077
	R2404536-002SD 20X	Be (313.107 nm)	0.0026	0.31	2925.4962
	R2404536-002SD 20X	Ca (317.933 nm)	15.6614	0.09	560609.7411
	R2404536-002SD 20X	Cd (214.439 nm)	0.0028	1.40	163.0965
	R2404536-002SD 20X	Co (230.786 nm)	0.0257	0.94	456.9800
	R2404536-002SD 20X	Cr (267.716 nm)	0.0104	1.79	544.9554
	R2404536-002SD 20X	Cu (327.395 nm)	0.0134	1.81	560.8274
	R2404536-002SD 20X	Fe (234.350 nm)	0.0539	0.29	981.8169
	R2404536-002SD 20X	K (766.491 nm)	17.7122	0.13	19245.3198

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404536-002SD 20X	Mg (279.078 nm)	49.5079	0.07	161757.6791
	R2404536-002SD 20X	Mn (257.610 nm)	0.0266	0.13	8917.0147
	R2404536-002SD 20X	Mo (202.032 nm)	0.0269	1.67	292.3299
	R2404536-002SD 20X	Na (588.995 nm)	371.5460 o	0.17	5046234.4229
	R2404536-002SD 20X	Ni (230.299 nm)	0.0269	2.66	341.4726
	R2404536-002SD 20X	Pb (220.353 nm)	0.0259	2.57	143.1052
	R2404536-002SD 20X	Sb (217.582 nm)	0.0315	5.36	65.0300
	R2404536-002SD 20X	Se (196.026 nm)	0.0578	4.27	46.9072
	R2404536-002SD 20X	Si (252.851 nm)	0.0370	2.38	173.5281
	R2404536-002SD 20X	Sn (189.925 nm)	0.2600	0.46	643.3374
	R2404536-002SD 20X	Sr (216.596 nm)	0.3790	0.15	6669.9415
	R2404536-002SD 20X	Ti (336.122 nm)	0.0269	1.16	4044.5876
	R2404536-002SD 20X	Tl (190.794 nm)	0.0997	4.58	96.1939
	R2404536-002SD 20X	V (292.401 nm)	0.0263	0.94	956.0156
	R2404536-002SD 20X	Y (360.074 nm)	0.91	0.19	442948.66
	R2404536-002SD 20X	Y_R (360.074 nm)	0.91	0.19	442067.06
	R2404536-002SD 20X	Zn (213.857 nm)	0.0309	0.15	1978.6100
6/10/2024 16:46:42	R2404536-002A 20X	Ag (328.068 nm)	0.0499	0.25	2613.0529
	R2404536-002A 20X	Al (237.312 nm)	1.9833	0.15	4914.9969
	R2404536-002A 20X	As (188.980 nm)	0.0399	1.26	65.5633
	R2404536-002A 20X	B (249.772 nm)	1.1895	0.26	38628.7265
	R2404536-002A 20X	Ba (230.424 nm)	1.8448	0.20	100453.6529
	R2404536-002A 20X	Be (313.107 nm)	0.0483	0.22	53087.7291
	R2404536-002A 20X	Ca (317.933 nm)	16.8905	0.24	604391.5867
	R2404536-002A 20X	Cd (214.439 nm)	0.0488	0.62	2783.7519
	R2404536-002A 20X	Co (230.786 nm)	0.4750	0.35	8604.0754
	R2404536-002A 20X	Cr (267.716 nm)	0.1920	0.25	9987.2022
	R2404536-002A 20X	Cu (327.395 nm)	0.2455	0.18	10748.1228
	R2404536-002A 20X	Fe (234.350 nm)	0.9744	0.35	17741.2328
	R2404536-002A 20X	K (766.491 nm)	36.4314	0.18	39787.7031
	R2404536-002A 20X	Mg (279.078 nm)	48.5678	0.30	158685.5850
	R2404536-002A 20X	Mn (257.610 nm)	0.4716	0.24	157511.0214
	R2404536-002A 20X	Mo (202.032 nm)	0.4864	0.51	5089.3150
	R2404536-002A 20X	Na (588.995 nm)	367.0483 o	0.43	4984982.6055
	R2404536-002A 20X	Ni (230.299 nm)	0.4946	0.32	5833.7296
	R2404536-002A 20X	Pb (220.353 nm)	0.4873	0.20	2551.7918
	R2404536-002A 20X	Sb (217.582 nm)	0.5089	0.12	951.8945
	R2404536-002A 20X	Se (196.026 nm)	1.0793	0.50	791.4696
	R2404536-002A 20X	Si (252.851 nm)	0.0339	6.98	161.8714
	R2404536-002A 20X	Sn (189.925 nm)	4.8335	0.28	11905.0170
	R2404536-002A 20X	Sr (216.596 nm)	2.1381	0.29	37628.2927
	R2404536-002A 20X	Ti (336.122 nm)	0.4803	0.26	69549.9561
	R2404536-002A 20X	Tl (190.794 nm)	1.8277	0.17	1784.7122
	R2404536-002A 20X	V (292.401 nm)	0.4764	0.28	18021.4230
	R2404536-002A 20X	Y (360.074 nm)	0.91	0.34	445424.13
	R2404536-002A 20X	Y_R (360.074 nm)	0.91	0.34	444524.03
	R2404536-002A 20X	Zn (213.857 nm)	0.5136	0.28	32873.9859
6/10/2024 16:49:56	R2404536-002L 100X	Ag (328.068 nm)	-0.0003 u	24.50	-229.2915
	R2404536-002L 100X	Al (237.312 nm)	0.0028	43.05	19.2508
	R2404536-002L 100X	As (188.980 nm)	-0.0007 u	> 100.00	-3.2921
	R2404536-002L 100X	B (249.772 nm)	0.0359	0.28	1170.7723
	R2404536-002L 100X	Ba (230.424 nm)	0.0002	18.80	22.5197
	R2404536-002L 100X	Be (313.107 nm)	0.0000	67.65	31.0444
	R2404536-002L 100X	Ca (317.933 nm)	3.1761	0.28	115877.7867
	R2404536-002L 100X	Cd (214.439 nm)	0.0000 u	> 100.00	2.9931
	R2404536-002L 100X	Co (230.786 nm)	-0.0003 u	56.71	-14.7917
	R2404536-002L 100X	Cr (267.716 nm)	0.0001	66.59	13.2297

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404536-002L 100X	Cu (327.395 nm)	0.0001 u	> 100.00	-24.4048
	R2404536-002L 100X	Fe (234.350 nm)	0.0015	23.58	27.7680
	R2404536-002L 100X	K (766.491 nm)	3.1059	1.04	3216.3472
	R2404536-002L 100X	Mg (279.078 nm)	9.6445	0.28	31487.7338
	R2404536-002L 100X	Mn (257.610 nm)	0.0003	5.64	121.9106
	R2404536-002L 100X	Mo (202.032 nm)	0.0022	41.64	35.4140
	R2404536-002L 100X	Na (588.995 nm)	77.1749 o	0.14	1037374.7538
	R2404536-002L 100X	Ni (230.299 nm)	0.0002 u	> 100.00	27.8708
	R2404536-002L 100X	Pb (220.353 nm)	0.0002 u	> 100.00	8.7680
	R2404536-002L 100X	Sb (217.582 nm)	0.0011 u	> 100.00	8.5635
	R2404536-002L 100X	Se (196.026 nm)	0.0007 u	> 100.00	5.3231
	R2404536-002L 100X	Si (252.851 nm)	0.0254	7.58	129.5333
	R2404536-002L 100X	Sn (189.925 nm)	0.0011	66.36	5.8387
	R2404536-002L 100X	Sr (216.596 nm)	0.0557	0.72	979.3246
	R2404536-002L 100X	Ti (336.122 nm)	0.0012	40.92	323.3595
	R2404536-002L 100X	Tl (190.794 nm)	0.0014 u	> 100.00	0.2124
	R2404536-002L 100X	V (292.401 nm)	-0.0001 u	> 100.00	-42.8598
	R2404536-002L 100X	Y (360.074 nm)	0.97	0.23	473151.52
	R2404536-002L 100X	Y_R (360.074 nm)	0.97	0.23	472220.98
	R2404536-002L 100X	Zn (213.857 nm)	0.0008	4.71	50.2086
6/10/2024 16:53:10	R2404536-003 20X	Ag (328.068 nm)	-0.0004 u	33.22	-236.0325
	R2404536-003 20X	Al (237.312 nm)	0.0082	10.58	32.6654
	R2404536-003 20X	As (188.980 nm)	0.0004 u	> 100.00	-1.3797
	R2404536-003 20X	B (249.772 nm)	0.1823	2.05	5925.6049
	R2404536-003 20X	Ba (230.424 nm)	0.0004	19.20	31.4847
	R2404536-003 20X	Be (313.107 nm)	0.0000	34.43	29.4568
	R2404536-003 20X	Ca (317.933 nm)	15.5704	2.00	557368.9836
	R2404536-003 20X	Cd (214.439 nm)	0.0001	59.40	8.2279
	R2404536-003 20X	Co (230.786 nm)	0.0000 u	> 100.00	-9.9274
	R2404536-003 20X	Cr (267.716 nm)	0.0001	60.23	12.8200
	R2404536-003 20X	Cu (327.395 nm)	0.0004	69.44	-10.3108
	R2404536-003 20X	Fe (234.350 nm)	0.0049	6.30	89.1340
	R2404536-003 20X	K (766.491 nm)	16.5443	1.81	17963.6113
	R2404536-003 20X	Mg (279.078 nm)	49.4538	2.05	161580.9994
	R2404536-003 20X	Mn (257.610 nm)	0.0011	1.45	379.3059
	R2404536-003 20X	Mo (202.032 nm)	0.0008	47.02	20.5634
	R2404536-003 20X	Na (588.995 nm)	369.6745 o	2.47	5020747.0752
	R2404536-003 20X	Ni (230.299 nm)	0.0001 u	> 100.00	26.1930
	R2404536-003 20X	Pb (220.353 nm)	0.0002 u	> 100.00	8.9691
	R2404536-003 20X	Sb (217.582 nm)	0.0019	77.57	10.0390
	R2404536-003 20X	Se (196.026 nm)	-0.0017 u	72.55	3.5175
	R2404536-003 20X	Si (252.851 nm)	0.0418	2.34	192.0788
	R2404536-003 20X	Sn (189.925 nm)	0.0013	26.91	6.2571
	R2404536-003 20X	Sr (216.596 nm)	0.2788	1.99	4906.6518
	R2404536-003 20X	Ti (336.122 nm)	0.0006	23.73	247.3242
	R2404536-003 20X	Tl (190.794 nm)	0.0022	29.04	0.9623
	R2404536-003 20X	V (292.401 nm)	0.0001 u	> 100.00	-38.2195
	R2404536-003 20X	Y (360.074 nm)	0.91	1.92	443793.58
	R2404536-003 20X	Y_R (360.074 nm)	0.91	1.92	442910.65
	R2404536-003 20X	Zn (213.857 nm)	0.0036	1.90	229.8093
6/10/2024 16:56:24	R2404536-004 20X	Ag (328.068 nm)	-0.0004 u	30.86	-236.9923
	R2404536-004 20X	Al (237.312 nm)	0.0039	61.90	21.9085
	R2404536-004 20X	As (188.980 nm)	-0.0004 u	> 100.00	-2.7545
	R2404536-004 20X	B (249.772 nm)	0.1836	0.13	5967.0211
	R2404536-004 20X	Ba (230.424 nm)	0.0002	67.72	24.3324
	R2404536-004 20X	Be (313.107 nm)	0.0000 u	> 100.00	24.0392
	R2404536-004 20X	Ca (317.933 nm)	15.6811	0.07	561309.6606

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404536-004 20X	Cd (214.439 nm)	0.0000 u	> 100.00	3.9629
	R2404536-004 20X	Co (230.786 nm)	-0.0001 u	64.52	-12.3183
	R2404536-004 20X	Cr (267.716 nm)	0.0001	62.20	13.6503
	R2404536-004 20X	Cu (327.395 nm)	0.0000 u	> 100.00	-27.4487
	R2404536-004 20X	Fe (234.350 nm)	0.0009	27.77	16.4111
	R2404536-004 20X	K (766.491 nm)	16.7878	0.17	18230.9169
	R2404536-004 20X	Mg (279.078 nm)	49.8834	0.05	162984.8238
	R2404536-004 20X	Mn (257.610 nm)	0.0009	1.39	308.6171
	R2404536-004 20X	Mo (202.032 nm)	0.0007	28.67	18.8587
	R2404536-004 20X	Na (588.995 nm)	373.0793 o	0.32	5067115.5258
	R2404536-004 20X	Ni (230.299 nm)	0.0003	55.00	29.3336
	R2404536-004 20X	Pb (220.353 nm)	0.0004	37.71	10.0300
	R2404536-004 20X	Sb (217.582 nm)	0.0028	21.42	11.8172
	R2404536-004 20X	Se (196.026 nm)	0.0006 u	> 100.00	5.2208
	R2404536-004 20X	Si (252.851 nm)	0.0307	2.64	149.4623
	R2404536-004 20X	Sn (189.925 nm)	-0.0005 u	89.52	1.8151
	R2404536-004 20X	Sr (216.596 nm)	0.2808	0.12	4941.0563
	R2404536-004 20X	Ti (336.122 nm)	0.0004	38.94	218.7540
	R2404536-004 20X	Tl (190.794 nm)	0.0023	12.89	1.0730
	R2404536-004 20X	V (292.401 nm)	0.0001 u	> 100.00	-38.0468
	R2404536-004 20X	Y (360.074 nm)	0.91	0.26	443735.74
	R2404536-004 20X	Y_R (360.074 nm)	0.91	0.26	442839.80
	R2404536-004 20X	Zn (213.857 nm)	0.0030	1.27	190.9692
6/10/2024 16:59:37	R2404536-005 20X	Ag (328.068 nm)	-0.0003 u	28.60	-230.9297
	R2404536-005 20X	Al (237.312 nm)	0.0076	31.82	30.9552
	R2404536-005 20X	As (188.980 nm)	-0.0007 u	> 100.00	-3.2253
	R2404536-005 20X	B (249.772 nm)	0.1876	0.23	6096.3210
	R2404536-005 20X	Ba (230.424 nm)	0.0003	22.76	28.3140
	R2404536-005 20X	Be (313.107 nm)	0.0000	74.12	33.8872
	R2404536-005 20X	Ca (317.933 nm)	16.0916	0.49	575932.5093
	R2404536-005 20X	Cd (214.439 nm)	0.0001 u	> 100.00	4.9833
	R2404536-005 20X	Co (230.786 nm)	0.0000 u	> 100.00	-10.0676
	R2404536-005 20X	Cr (267.716 nm)	-0.0001 u	> 100.00	-1.4282
	R2404536-005 20X	Cu (327.395 nm)	0.0004	41.10	-9.4208
	R2404536-005 20X	Fe (234.350 nm)	0.0061	9.63	111.5204
	R2404536-005 20X	K (766.491 nm)	17.2999	0.26	18792.8515
	R2404536-005 20X	Mg (279.078 nm)	51.2676	0.47	167508.3680
	R2404536-005 20X	Mn (257.610 nm)	0.0011	1.95	381.0021
	R2404536-005 20X	Mo (202.032 nm)	0.0004	50.20	15.7216
	R2404536-005 20X	Na (588.995 nm)	383.0256 o	0.14	5202568.1740
	R2404536-005 20X	Ni (230.299 nm)	0.0006	18.61	32.0801
	R2404536-005 20X	Pb (220.353 nm)	0.0008	72.97	11.8898
	R2404536-005 20X	Sb (217.582 nm)	0.0004 u	> 100.00	7.2649
	R2404536-005 20X	Se (196.026 nm)	-0.0002 u	> 100.00	4.5966
	R2404536-005 20X	Si (252.851 nm)	0.0413	4.65	190.1548
	R2404536-005 20X	Sn (189.925 nm)	0.0004	26.69	4.0099
	R2404536-005 20X	Sr (216.596 nm)	0.2893	0.56	5091.1522
	R2404536-005 20X	Ti (336.122 nm)	0.0004	34.31	219.5163
	R2404536-005 20X	Tl (190.794 nm)	0.0011	72.33	-0.0811
	R2404536-005 20X	V (292.401 nm)	-0.0002 u	69.69	-46.6075
	R2404536-005 20X	Y (360.074 nm)	0.91	0.31	444516.59
	R2404536-005 20X	Y_R (360.074 nm)	0.91	0.31	443530.61
	R2404536-005 20X	Zn (213.857 nm)	0.0051	2.60	323.8723
6/10/2024 17:02:51	R2404536-006 20X	Ag (328.068 nm)	-0.0003 u	7.63	-231.8398
	R2404536-006 20X	Al (237.312 nm)	0.0032	48.22	20.1762
	R2404536-006 20X	As (188.980 nm)	-0.0001 u	> 100.00	-2.2186
	R2404536-006 20X	B (249.772 nm)	0.1813	0.48	5894.1465

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404536-006 20X	Ba (230.424 nm)	0.0003	51.14	29.1360
	R2404536-006 20X	Be (313.107 nm)	0.0000 u	> 100.00	23.7844
	R2404536-006 20X	Ca (317.933 nm)	15.6001	0.29	558424.9248
	R2404536-006 20X	Cd (214.439 nm)	0.0001	> 100.00	8.4940
	R2404536-006 20X	Co (230.786 nm)	-0.0002 u	51.04	-12.6125
	R2404536-006 20X	Cr (267.716 nm)	0.0000 u	> 100.00	5.7448
	R2404536-006 20X	Cu (327.395 nm)	0.0003	13.58	-15.7866
	R2404536-006 20X	Fe (234.350 nm)	0.0009	27.31	15.9762
	R2404536-006 20X	K (766.491 nm)	16.8016	0.31	18246.0161
	R2404536-006 20X	Mg (279.078 nm)	49.6337	0.32	162168.9942
	R2404536-006 20X	Mn (257.610 nm)	0.0009	1.14	310.5752
	R2404536-006 20X	Mo (202.032 nm)	0.0004	23.97	16.0539
	R2404536-006 20X	Na (588.995 nm)	373.9494 o	0.31	5078964.8761
	R2404536-006 20X	Ni (230.299 nm)	0.0004	91.00	29.8285
	R2404536-006 20X	Pb (220.353 nm)	0.0005	86.18	10.4928
	R2404536-006 20X	Sb (217.582 nm)	-0.0016 u	> 100.00	3.6291
	R2404536-006 20X	Se (196.026 nm)	-0.0010 u	> 100.00	4.0705
	R2404536-006 20X	Si (252.851 nm)	0.0300	1.34	146.9283
	R2404536-006 20X	Sn (189.925 nm)	-0.0001 u	> 100.00	2.7621
	R2404536-006 20X	Sr (216.596 nm)	0.2811	0.29	4946.2385
	R2404536-006 20X	Ti (336.122 nm)	0.0003	54.58	195.2977
	R2404536-006 20X	Tl (190.794 nm)	0.0017	87.79	0.4411
	R2404536-006 20X	V (292.401 nm)	0.0000 u	> 100.00	-39.3285
	R2404536-006 20X	Y (360.074 nm)	0.91	0.30	445570.48
	R2404536-006 20X	Y_R (360.074 nm)	0.91	0.30	444540.01
	R2404536-006 20X	Zn (213.857 nm)	0.0046	0.85	296.9765
6/10/2024 17:06:05	R2404536-007 20X	Ag (328.068 nm)	-0.0005 u	3.40	-242.9615
	R2404536-007 20X	Al (237.312 nm)	0.0070	18.45	29.4596
	R2404536-007 20X	As (188.980 nm)	0.0000 u	> 100.00	-1.9749
	R2404536-007 20X	B (249.772 nm)	0.1823	0.24	5924.0194
	R2404536-007 20X	Ba (230.424 nm)	0.0004	12.15	31.6700
	R2404536-007 20X	Be (313.107 nm)	0.0000	68.74	30.3471
	R2404536-007 20X	Ca (317.933 nm)	15.5813	0.32	557754.8770
	R2404536-007 20X	Cd (214.439 nm)	0.0001	43.87	10.3022
	R2404536-007 20X	Co (230.786 nm)	0.0000 u	> 100.00	-9.8368
	R2404536-007 20X	Cr (267.716 nm)	0.0000 u	> 100.00	4.6729
	R2404536-007 20X	Cu (327.395 nm)	0.0005	25.18	-4.7134
	R2404536-007 20X	Fe (234.350 nm)	0.0044	7.59	79.5641
	R2404536-007 20X	K (766.491 nm)	16.7518	0.32	18191.3846
	R2404536-007 20X	Mg (279.078 nm)	49.5895	0.26	162024.3392
	R2404536-007 20X	Mn (257.610 nm)	0.0010	2.48	354.7701
	R2404536-007 20X	Mo (202.032 nm)	0.0000 u	> 100.00	12.2464
	R2404536-007 20X	Na (588.995 nm)	373.1347 o	0.12	5067869.1430
	R2404536-007 20X	Ni (230.299 nm)	0.0003 u	> 100.00	28.8810
	R2404536-007 20X	Pb (220.353 nm)	0.0007	92.51	11.3802
	R2404536-007 20X	Sb (217.582 nm)	0.0000 u	> 100.00	6.5512
	R2404536-007 20X	Se (196.026 nm)	-0.0006 u	> 100.00	4.3054
	R2404536-007 20X	Si (252.851 nm)	0.0404	2.41	186.7710
	R2404536-007 20X	Sn (189.925 nm)	-0.0011 u	95.91	0.3373
	R2404536-007 20X	Sr (216.596 nm)	0.2808	0.31	4940.4451
	R2404536-007 20X	Ti (336.122 nm)	0.0004	19.64	216.8422
	R2404536-007 20X	Tl (190.794 nm)	0.0009 u	> 100.00	-0.3525
	R2404536-007 20X	V (292.401 nm)	-0.0001 u	> 100.00	-42.6504
	R2404536-007 20X	Y (360.074 nm)	0.91	0.29	444733.63
	R2404536-007 20X	Y_R (360.074 nm)	0.91	0.29	443757.92
	R2404536-007 20X	Zn (213.857 nm)	0.0034	1.65	216.5930
6/10/2024 17:09:19	R2404536-008 20X	Ag (328.068 nm)	-0.0004 u	63.36	-234.8784

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404536-008 20X	Al (237.312 nm)	0.0049	23.57	24.4544
	R2404536-008 20X	As (188.980 nm)	-0.0005 u	> 100.00	-2.8151
	R2404536-008 20X	B (249.772 nm)	0.1836	0.28	5967.2163
	R2404536-008 20X	Ba (230.424 nm)	0.0003	19.77	27.7215
	R2404536-008 20X	Be (313.107 nm)	0.0000 u	> 100.00	24.8007
	R2404536-008 20X	Ca (317.933 nm)	15.7002	0.26	561992.1876
	R2404536-008 20X	Cd (214.439 nm)	0.0001	60.50	8.6731
	R2404536-008 20X	Co (230.786 nm)	-0.0004 u	56.42	-16.4728
	R2404536-008 20X	Cr (267.716 nm)	-0.0001 u	> 100.00	3.2407
	R2404536-008 20X	Cu (327.395 nm)	0.0002 u	> 100.00	-21.0367
	R2404536-008 20X	Fe (234.350 nm)	0.0007	32.31	12.8068
	R2404536-008 20X	K (766.491 nm)	16.7751	0.41	18216.9384
	R2404536-008 20X	Mg (279.078 nm)	50.0163	0.22	163419.0007
	R2404536-008 20X	Mn (257.610 nm)	0.0009	1.16	308.6721
	R2404536-008 20X	Mo (202.032 nm)	0.0005	21.71	16.8612
	R2404536-008 20X	Na (588.995 nm)	372.8774 o	0.39	5064365.1447
	R2404536-008 20X	Ni (230.299 nm)	0.0003	29.98	29.2434
	R2404536-008 20X	Pb (220.353 nm)	0.0010	36.93	12.8938
	R2404536-008 20X	Sb (217.582 nm)	-0.0015 u	> 100.00	3.7543
	R2404536-008 20X	Se (196.026 nm)	-0.0001 u	> 100.00	4.6873
	R2404536-008 20X	Si (252.851 nm)	0.0315	3.22	152.7179
	R2404536-008 20X	Sn (189.925 nm)	-0.0004 u	37.99	2.0232
	R2404536-008 20X	Sr (216.596 nm)	0.2815	0.15	4952.9388
	R2404536-008 20X	Ti (336.122 nm)	0.0003	30.88	198.9101
	R2404536-008 20X	Tl (190.794 nm)	0.0013 u	> 100.00	0.0953
	R2404536-008 20X	V (292.401 nm)	0.0002 u	> 100.00	-34.6903
	R2404536-008 20X	Y (360.074 nm)	0.91	0.34	443697.36
	R2404536-008 20X	Y_R (360.074 nm)	0.91	0.34	442826.02
	R2404536-008 20X	Zn (213.857 nm)	0.0029	1.16	187.6745
6/10/2024 17:12:33	PBW-439397	Ag (328.068 nm)	-0.0001 u	70.50	-222.4662
	PBW-439397	Al (237.312 nm)	0.0020	53.07	17.1115
	PBW-439397	As (188.980 nm)	-0.0007 u	> 100.00	-3.1789
	PBW-439397	B (249.772 nm)	0.0011	19.03	40.8097
	PBW-439397	Ba (230.424 nm)	0.0000 u	> 100.00	9.9181
	PBW-439397	Be (313.107 nm)	0.0000	86.70	32.5460
	PBW-439397	Ca (317.933 nm)	0.0075	1.38	3009.6521
	PBW-439397	Cd (214.439 nm)	0.0001	46.19	8.6522
	PBW-439397	Co (230.786 nm)	0.0000 u	> 100.00	-10.3259
	PBW-439397	Cr (267.716 nm)	0.0005	3.41	30.6898
	PBW-439397	Cu (327.395 nm)	0.0001	55.05	-23.7389
	PBW-439397	Fe (234.350 nm)	0.0032	9.25	57.7088
	PBW-439397	K (766.491 nm)	0.1276	26.68	-51.9867
	PBW-439397	Mg (279.078 nm)	0.0036	9.68	-17.8517
	PBW-439397	Mn (257.610 nm)	0.0001	4.50	45.1346
	PBW-439397	Mo (202.032 nm)	0.0002 u	> 100.00	13.6821
	PBW-439397	Na (588.995 nm)	0.3101	7.34	-9399.7088
	PBW-439397	Ni (230.299 nm)	-0.0005 u	96.85	19.3050
	PBW-439397	Pb (220.353 nm)	0.0006 u	> 100.00	10.8198
	PBW-439397	Sb (217.582 nm)	0.0049	51.67	15.7554
	PBW-439397	Se (196.026 nm)	0.0017	84.75	5.9976
	PBW-439397	Si (252.851 nm)	0.0138	10.77	85.3729
	PBW-439397	Sn (189.925 nm)	0.0000 u	> 100.00	2.9124
	PBW-439397	Sr (216.596 nm)	0.0002	87.35	2.8245
	PBW-439397	Ti (336.122 nm)	-0.0001 u	66.73	136.6938
	PBW-439397	Tl (190.794 nm)	-0.0002 u	> 100.00	-1.4396
	PBW-439397	V (292.401 nm)	0.0000 u	> 100.00	-39.6655
	PBW-439397	Y (360.074 nm)	1.02	0.40	499060.50

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	PBW-439397	Y_R (360.074 nm)	1.02	0.40	498135.32
	PBW-439397	Zn (213.857 nm)	0.0000	66.49	2.7793
6/10/2024 17:15:47	Continuing Calibration Verification	Ag (328.068 nm)	0.5066	0.13	28484.6279
	Continuing Calibration Verification	Al (237.312 nm)	9.9028	0.08	24491.5819
	Continuing Calibration Verification	As (188.980 nm)	0.9790	0.20	1658.2251
	Continuing Calibration Verification	B (249.772 nm)	2.4523	0.15	79633.0608
	Continuing Calibration Verification	Ba (230.424 nm)	9.6769	0.56	526885.7777
	Continuing Calibration Verification	Be (313.107 nm)	0.2437	0.22	267487.1003
	Continuing Calibration Verification	Ca (317.933 nm)	25.6156	0.24	915182.1337
	Continuing Calibration Verification	Cd (214.439 nm)	0.5008	0.21	28535.3285
	Continuing Calibration Verification	Co (230.786 nm)	2.4882	0.55	45109.4913
	Continuing Calibration Verification	Cr (267.716 nm)	0.5137	0.21	26709.3292
	Continuing Calibration Verification	Cu (327.395 nm)	1.2273	0.66	53847.4647
	Continuing Calibration Verification	Fe (234.350 nm)	5.0111	0.23	91242.0022
	Continuing Calibration Verification	K (766.491 nm)	24.2072	0.14	26372.8502
	Continuing Calibration Verification	Mg (279.078 nm)	25.2424	0.11	82460.2709
	Continuing Calibration Verification	Mn (257.610 nm)	0.7409	0.21	247433.2231
	Continuing Calibration Verification	Mo (202.032 nm)	2.5975	0.34	27126.8395
	Continuing Calibration Verification	Na (588.995 nm)	25.4984	0.34	333624.3305
	Continuing Calibration Verification	Ni (230.299 nm)	2.0598	0.19	24213.4587
	Continuing Calibration Verification	Pb (220.353 nm)	0.5086	0.17	2663.2201
	Continuing Calibration Verification	Sb (217.582 nm)	4.8857	0.13	9082.1981
	Continuing Calibration Verification	Se (196.026 nm)	0.4778	0.19	353.0793
	Continuing Calibration Verification	Si (252.851 nm)	10.0853	0.38	38461.2580
	Continuing Calibration Verification	Sn (189.925 nm)	5.0137	0.10	12348.7638
	Continuing Calibration Verification	Sr (216.596 nm)	2.4459	0.51	43046.6223
	Continuing Calibration Verification	Ti (336.122 nm)	2.5298	0.09	365659.1892
	Continuing Calibration Verification	Tl (190.794 nm)	0.9760	0.85	952.4836
	Continuing Calibration Verification	V (292.401 nm)	2.5071	0.15	95010.6133
	Continuing Calibration Verification	Y (360.074 nm)	0.97	0.36	474033.61
	Continuing Calibration Verification	Y_R (360.074 nm)	0.97	0.36	473110.93
	Continuing Calibration Verification	Zn (213.857 nm)	0.9880	0.44	63241.7296
6/10/2024 17:19:01	Continuing Calibration Blank	Ag (328.068 nm)	-0.0003 u	32.95	-229.3020
	Continuing Calibration Blank	Al (237.312 nm)	0.0014	62.89	15.7887
	Continuing Calibration Blank	As (188.980 nm)	0.0000 u	> 100.00	-2.1069
	Continuing Calibration Blank	B (249.772 nm)	0.0017	16.06	62.1422
	Continuing Calibration Blank	Ba (230.424 nm)	0.0006	22.84	43.0214
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	21.03	34.4434
	Continuing Calibration Blank	Ca (317.933 nm)	0.0072	3.68	2998.1629
	Continuing Calibration Blank	Cd (214.439 nm)	0.0001	54.00	6.7869
	Continuing Calibration Blank	Co (230.786 nm)	0.0001	> 100.00	-7.4746
	Continuing Calibration Blank	Cr (267.716 nm)	0.0001	90.43	8.7715
	Continuing Calibration Blank	Cu (327.395 nm)	0.0002 u	> 100.00	-17.5010
	Continuing Calibration Blank	Fe (234.350 nm)	0.0022	29.75	39.4235
	Continuing Calibration Blank	K (766.491 nm)	0.0783	9.28	-106.0897
	Continuing Calibration Blank	Mg (279.078 nm)	0.0031	24.05	-19.7740
	Continuing Calibration Blank	Mn (257.610 nm)	0.0001	23.76	43.4467
	Continuing Calibration Blank	Mo (202.032 nm)	0.0033	33.34	46.7223
	Continuing Calibration Blank	Na (588.995 nm)	0.1598	2.58	-11446.9544
	Continuing Calibration Blank	Ni (230.299 nm)	0.0000 u	> 100.00	25.0048
	Continuing Calibration Blank	Pb (220.353 nm)	0.0003 u	> 100.00	9.5378
	Continuing Calibration Blank	Sb (217.582 nm)	0.0048	30.69	15.4651
	Continuing Calibration Blank	Se (196.026 nm)	-0.0011 u	> 100.00	3.9766
	Continuing Calibration Blank	Si (252.851 nm)	0.0005 u	> 100.00	34.4322
	Continuing Calibration Blank	Sn (189.925 nm)	0.0006	85.38	4.5934
	Continuing Calibration Blank	Sr (216.596 nm)	0.0004	25.51	6.2916
	Continuing Calibration Blank	Ti (336.122 nm)	0.0026	45.17	524.8820

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Tl (190.794 nm)	-0.0005 u	> 100.00	-1.7224
	Continuing Calibration Blank	V (292.401 nm)	0.0000 u	> 100.00	-40.2074
	Continuing Calibration Blank	Y (360.074 nm)	1.01	0.19	491893.48
	Continuing Calibration Blank	Y_R (360.074 nm)	1.01	0.19	490947.78
	Continuing Calibration Blank	Zn (213.857 nm)	0.0009	2.44	59.6901
6/10/2024 17:22:15	LCSW-439397	Ag (328.068 nm)	0.0496	0.45	2593.9789
	LCSW-439397	Al (237.312 nm)	1.9738	0.04	4891.4952
	LCSW-439397	As (188.980 nm)	0.0361	2.44	59.1203
	LCSW-439397	B (249.772 nm)	0.9801	0.16	31830.3298
	LCSW-439397	Ba (230.424 nm)	1.9150	0.15	104274.6226
	LCSW-439397	Be (313.107 nm)	0.0485	0.26	53288.0347
	LCSW-439397	Ca (317.933 nm)	2.0118	0.27	74402.6678
	LCSW-439397	Cd (214.439 nm)	0.0506	0.33	2885.5815
	LCSW-439397	Co (230.786 nm)	0.4939	0.38	8945.9729
	LCSW-439397	Cr (267.716 nm)	0.2003	0.32	10417.4505
	LCSW-439397	Cu (327.395 nm)	0.2486	0.13	10885.2049
	LCSW-439397	Fe (234.350 nm)	1.0045	0.31	18289.4469
	LCSW-439397	K (766.491 nm)	18.8870	0.50	20534.4910
	LCSW-439397	Mg (279.078 nm)	1.9464	0.31	6331.0343
	LCSW-439397	Mn (257.610 nm)	0.4841	0.23	161701.6411
	LCSW-439397	Mo (202.032 nm)	0.4961	0.33	5190.1068
	LCSW-439397	Na (588.995 nm)	19.8987	0.27	257366.0843
	LCSW-439397	Ni (230.299 nm)	0.5112	0.33	6028.3193
	LCSW-439397	Pb (220.353 nm)	0.5156	0.38	2699.9627
	LCSW-439397	Sb (217.582 nm)	0.4973	0.68	930.4025
	LCSW-439397	Se (196.026 nm)	0.9753	0.56	715.6629
	LCSW-439397	Si (252.851 nm)	-0.0047 u	5.40	14.6235
	LCSW-439397	Sn (189.925 nm)	4.8967	0.32	12060.4599
	LCSW-439397	Sr (216.596 nm)	1.9335	0.30	34027.4544
	LCSW-439397	Ti (336.122 nm)	0.4913	0.22	71143.5454
	LCSW-439397	Tl (190.794 nm)	1.9332	0.33	1887.8856
	LCSW-439397	V (292.401 nm)	0.4851	0.23	18351.4755
	LCSW-439397	Y (360.074 nm)	1.00	0.38	488447.46
	LCSW-439397	Y_R (360.074 nm)	1.00	0.38	487507.89
	LCSW-439397	Zn (213.857 nm)	0.4994	0.28	31968.2785
6/10/2024 17:25:29	DLCSW-439397	Ag (328.068 nm)	0.0491	0.38	2569.5131
	DLCSW-439397	Al (237.312 nm)	1.9612	0.27	4860.2527
	DLCSW-439397	As (188.980 nm)	0.0371	0.59	60.9097
	DLCSW-439397	B (249.772 nm)	0.9756	0.19	31683.6250
	DLCSW-439397	Ba (230.424 nm)	1.9071	0.05	103847.1869
	DLCSW-439397	Be (313.107 nm)	0.0483	0.19	53001.3586
	DLCSW-439397	Ca (317.933 nm)	2.0041	0.24	74131.3850
	DLCSW-439397	Cd (214.439 nm)	0.0503	0.26	2869.1801
	DLCSW-439397	Co (230.786 nm)	0.4914	0.40	8901.1826
	DLCSW-439397	Cr (267.716 nm)	0.1993	0.21	10364.4680
	DLCSW-439397	Cu (327.395 nm)	0.2472	0.11	10825.4383
	DLCSW-439397	Fe (234.350 nm)	1.0022	0.28	18246.9308
	DLCSW-439397	K (766.491 nm)	18.7490	0.16	20383.0848
	DLCSW-439397	Mg (279.078 nm)	1.9374	0.26	6301.5889
	DLCSW-439397	Mn (257.610 nm)	0.4817	0.23	160888.9267
	DLCSW-439397	Mo (202.032 nm)	0.4927	0.38	5155.2516
	DLCSW-439397	Na (588.995 nm)	19.7041	0.25	254715.1553
	DLCSW-439397	Ni (230.299 nm)	0.5092	0.31	6004.5781
	DLCSW-439397	Pb (220.353 nm)	0.5132	0.48	2686.9759
	DLCSW-439397	Sb (217.582 nm)	0.4908	0.48	918.3161
	DLCSW-439397	Se (196.026 nm)	0.9734	0.20	714.3287
	DLCSW-439397	Si (252.851 nm)	-0.0093 u	7.78	-2.5923

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	DLCSW-439397	Sn (189.925 nm)	4.8748	0.24	12006.7236
	DLCSW-439397	Sr (216.596 nm)	1.9268	0.32	33909.7432
	DLCSW-439397	Ti (336.122 nm)	0.4872	0.21	70537.9642
	DLCSW-439397	Tl (190.794 nm)	1.9293	0.29	1884.0759
	DLCSW-439397	V (292.401 nm)	0.4833	0.29	18281.5015
	DLCSW-439397	Y (360.074 nm)	1.00	0.39	489981.26
	DLCSW-439397	Y_R (360.074 nm)	1.00	0.39	489054.77
	DLCSW-439397	Zn (213.857 nm)	0.4976	0.20	31849.7715
6/10/2024 17:28:44	R2404637-001 20X	Ag (328.068 nm)	0.0000 u	> 100.00	-217.0269
	R2404637-001 20X	Al (237.312 nm)	0.0042	49.46	22.6453
	R2404637-001 20X	As (188.980 nm)	-0.0006 u	> 100.00	-3.0029
	R2404637-001 20X	B (249.772 nm)	0.0231	1.39	754.0908
	R2404637-001 20X	Ba (230.424 nm)	0.0019	3.62	113.8526
	R2404637-001 20X	Be (313.107 nm)	0.0000	36.81	34.2426
	R2404637-001 20X	Ca (317.933 nm)	31.6750	0.24	1131020.8936
	R2404637-001 20X	Cd (214.439 nm)	0.0001	44.12	6.2482
	R2404637-001 20X	Co (230.786 nm)	0.0000 u	> 100.00	-10.5355
	R2404637-001 20X	Cr (267.716 nm)	0.0001	35.38	11.5832
	R2404637-001 20X	Cu (327.395 nm)	0.0000 u	> 100.00	-26.8175
	R2404637-001 20X	Fe (234.350 nm)	0.5834	0.26	10621.5815
	R2404637-001 20X	K (766.491 nm)	0.4623	9.47	315.2746
	R2404637-001 20X	Mg (279.078 nm)	5.5034	0.15	17954.7726
	R2404637-001 20X	Mn (257.610 nm)	0.0098	0.34	3306.6516
	R2404637-001 20X	Mo (202.032 nm)	0.0019	51.94	32.0935
	R2404637-001 20X	Na (588.995 nm)	2.9248	0.42	26208.2741
	R2404637-001 20X	Ni (230.299 nm)	0.0009	17.61	35.4756
	R2404637-001 20X	Pb (220.353 nm)	0.0011	41.72	13.9183
	R2404637-001 20X	Sb (217.582 nm)	0.0021 u	> 100.00	10.5242
	R2404637-001 20X	Se (196.026 nm)	-0.0009 u	> 100.00	4.0969
	R2404637-001 20X	Si (252.851 nm)	0.4976	0.50	1928.5164
	R2404637-001 20X	Sn (189.925 nm)	0.0009 u	> 100.00	5.1186
	R2404637-001 20X	Sr (216.596 nm)	0.5681	0.12	9997.0854
	R2404637-001 20X	Ti (336.122 nm)	0.0012	36.67	325.4472
	R2404637-001 20X	Tl (190.794 nm)	0.0016	45.69	0.3816
	R2404637-001 20X	V (292.401 nm)	0.0000 u	> 100.00	-41.2744
	R2404637-001 20X	Y (360.074 nm)	1.00	0.01	488073.20
	R2404637-001 20X	Y_R (360.074 nm)	1.00	0.01	487133.72
	R2404637-001 20X	Zn (213.857 nm)	0.0001	10.47	3.9430
6/10/2024 17:31:58	R2404637-002 10X	Ag (328.068 nm)	-0.0002 u	54.58	-226.1801
	R2404637-002 10X	Al (237.312 nm)	0.0058	23.18	26.5010
	R2404637-002 10X	As (188.980 nm)	0.0004 u	> 100.00	-1.2642
	R2404637-002 10X	B (249.772 nm)	0.0277	0.42	904.0282
	R2404637-002 10X	Ba (230.424 nm)	0.0012	1.99	76.8619
	R2404637-002 10X	Be (313.107 nm)	0.0000	57.71	33.2256
	R2404637-002 10X	Ca (317.933 nm)	40.3075	0.38	1438512.6857
	R2404637-002 10X	Cd (214.439 nm)	0.0001	50.86	8.0517
	R2404637-002 10X	Co (230.786 nm)	0.0000 u	> 100.00	-8.9218
	R2404637-002 10X	Cr (267.716 nm)	0.0001 u	> 100.00	8.6509
	R2404637-002 10X	Cu (327.395 nm)	0.0003	54.79	-13.2185
	R2404637-002 10X	Fe (234.350 nm)	0.2225	0.64	4051.4400
	R2404637-002 10X	K (766.491 nm)	2.4883	0.93	2538.6515
	R2404637-002 10X	Mg (279.078 nm)	4.3424	0.43	14160.7415
	R2404637-002 10X	Mn (257.610 nm)	0.0083	0.70	2799.8244
	R2404637-002 10X	Mo (202.032 nm)	0.0013	23.34	25.1971
	R2404637-002 10X	Na (588.995 nm)	35.5348	0.72	470303.4611
	R2404637-002 10X	Ni (230.299 nm)	0.0008	30.79	34.3921
	R2404637-002 10X	Pb (220.353 nm)	0.0014	54.67	15.1676

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404637-002 10X	Sb (217.582 nm)	0.0011 u	> 100.00	8.6614
	R2404637-002 10X	Se (196.026 nm)	-0.0010 u	> 100.00	4.0856
	R2404637-002 10X	Si (252.851 nm)	0.4574	0.66	1775.3731
	R2404637-002 10X	Sn (189.925 nm)	0.0000 u	> 100.00	3.0978
	R2404637-002 10X	Sr (216.596 nm)	0.7566	0.42	13314.5706
	R2404637-002 10X	Ti (336.122 nm)	0.0008	27.69	264.1486
	R2404637-002 10X	Tl (190.794 nm)	0.0017	65.96	0.4488
	R2404637-002 10X	V (292.401 nm)	0.0000 u	> 100.00	-39.9569
	R2404637-002 10X	Y (360.074 nm)	0.98	0.36	479819.58
	R2404637-002 10X	Y_R (360.074 nm)	0.98	0.36	478875.29
	R2404637-002 10X	Zn (213.857 nm)	0.0012	3.13	74.2009
6/10/2024 17:35:13	R2404637-003 10X	Ag (328.068 nm)	-0.0002 u	37.96	-224.1434
	R2404637-003 10X	Al (237.312 nm)	0.0023	85.54	17.9056
	R2404637-003 10X	As (188.980 nm)	-0.0015 u	> 100.00	-4.6467
	R2404637-003 10X	B (249.772 nm)	0.0155	0.54	507.8430
	R2404637-003 10X	Ba (230.424 nm)	0.0019	5.14	116.1588
	R2404637-003 10X	Be (313.107 nm)	0.0000	52.08	36.7789
	R2404637-003 10X	Ca (317.933 nm)	32.9814	0.82	1177553.6727
	R2404637-003 10X	Cd (214.439 nm)	0.0000 u	> 100.00	3.0657
	R2404637-003 10X	Co (230.786 nm)	-0.0001 u	85.82	-12.3985
	R2404637-003 10X	Cr (267.716 nm)	0.0002	67.11	14.5540
	R2404637-003 10X	Cu (327.395 nm)	0.0002 u	> 100.00	-19.9648
	R2404637-003 10X	Fe (234.350 nm)	0.0512	1.04	932.3685
	R2404637-003 10X	K (766.491 nm)	0.3666	3.42	210.3131
	R2404637-003 10X	Mg (279.078 nm)	4.4016	0.78	14354.2151
	R2404637-003 10X	Mn (257.610 nm)	0.0520	0.70	17396.5435
	R2404637-003 10X	Mo (202.032 nm)	0.0004	41.16	16.3091
	R2404637-003 10X	Na (588.995 nm)	6.9746	0.64	81360.3228
	R2404637-003 10X	Ni (230.299 nm)	0.0004	68.63	30.4333
	R2404637-003 10X	Pb (220.353 nm)	0.0002 u	> 100.00	9.2246
	R2404637-003 10X	Sb (217.582 nm)	-0.0020 u	56.32	2.7840
	R2404637-003 10X	Se (196.026 nm)	-0.0001 u	> 100.00	4.6811
	R2404637-003 10X	Si (252.851 nm)	0.4618	0.83	1792.3302
	R2404637-003 10X	Sn (189.925 nm)	-0.0003 u	> 100.00	2.1970
	R2404637-003 10X	Sr (216.596 nm)	0.2093	0.93	3682.8500
	R2404637-003 10X	Ti (336.122 nm)	0.0006	29.49	235.9795
	R2404637-003 10X	Tl (190.794 nm)	0.0015 u	88.01	0.2294
	R2404637-003 10X	V (292.401 nm)	0.0000 u	> 100.00	-40.9933
	R2404637-003 10X	Y (360.074 nm)	1.00	0.45	487508.35
	R2404637-003 10X	Y_R (360.074 nm)	1.00	0.45	486481.13
	R2404637-003 10X	Zn (213.857 nm)	0.0001	27.67	9.4820
6/10/2024 17:38:27	R2404637-004 10X	Ag (328.068 nm)	-0.0002 u	64.28	-225.0309
	R2404637-004 10X	Al (237.312 nm)	0.0204	5.52	62.6736
	R2404637-004 10X	As (188.980 nm)	-0.0009 u	> 100.00	-3.5381
	R2404637-004 10X	B (249.772 nm)	0.0202	0.93	659.8990
	R2404637-004 10X	Ba (230.424 nm)	0.0013	3.46	80.4998
	R2404637-004 10X	Be (313.107 nm)	0.0000 u	99.11	27.3478
	R2404637-004 10X	Ca (317.933 nm)	37.4133	0.79	1335419.6491
	R2404637-004 10X	Cd (214.439 nm)	0.0001	50.50	10.1436
	R2404637-004 10X	Co (230.786 nm)	-0.0001 u	> 100.00	-11.8968
	R2404637-004 10X	Cr (267.716 nm)	0.0000 u	> 100.00	5.8107
	R2404637-004 10X	Cu (327.395 nm)	0.0003	84.04	-15.0276
	R2404637-004 10X	Fe (234.350 nm)	0.0194	0.70	352.8674
	R2404637-004 10X	K (766.491 nm)	0.4002	7.25	247.1472
	R2404637-004 10X	Mg (279.078 nm)	4.6551	0.90	15182.6573
	R2404637-004 10X	Mn (257.610 nm)	0.0201	0.86	6727.6077
	R2404637-004 10X	Mo (202.032 nm)	0.0004	23.29	15.8225

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404637-004 10X	Na (588.995 nm)	2.4356	1.32	19545.5581
	R2404637-004 10X	Ni (230.299 nm)	0.0007	62.48	32.9990
	R2404637-004 10X	Pb (220.353 nm)	0.0002 u	> 100.00	8.8327
	R2404637-004 10X	Sb (217.582 nm)	-0.0001 u	> 100.00	6.4445
	R2404637-004 10X	Se (196.026 nm)	0.0023 u	> 100.00	6.4199
	R2404637-004 10X	Si (252.851 nm)	0.4217	0.95	1639.4090
	R2404637-004 10X	Sn (189.925 nm)	-0.0001 u	> 100.00	2.8602
	R2404637-004 10X	Sr (216.596 nm)	0.2984	0.92	5251.0743
	R2404637-004 10X	Ti (336.122 nm)	0.0005	20.51	233.6035
	R2404637-004 10X	Tl (190.794 nm)	0.0008	> 100.00	-0.4036
	R2404637-004 10X	V (292.401 nm)	-0.0001 u	86.35	-44.1977
	R2404637-004 10X	Y (360.074 nm)	1.00	0.19	487976.23
	R2404637-004 10X	Y_R (360.074 nm)	1.00	0.19	486989.73
	R2404637-004 10X	Zn (213.857 nm)	0.0005	15.06	33.0611
6/10/2024 17:41:40	R2404367-004L 50X	Ag (328.068 nm)	-0.0001 u	> 100.00	-220.9022
	R2404367-004L 50X	Al (237.312 nm)	0.0057	12.92	26.3891
	R2404367-004L 50X	As (188.980 nm)	-0.0011 u	36.71	-3.9516
	R2404367-004L 50X	B (249.772 nm)	0.0042	5.37	142.4847
	R2404367-004L 50X	Ba (230.424 nm)	0.0002	43.04	20.7540
	R2404367-004L 50X	Be (313.107 nm)	0.0000	82.92	35.3206
	R2404367-004L 50X	Ca (317.933 nm)	7.4278	0.24	267323.9823
	R2404367-004L 50X	Cd (214.439 nm)	0.0001	92.89	6.2842
	R2404367-004L 50X	Co (230.786 nm)	0.0000 u	> 100.00	-8.9035
	R2404367-004L 50X	Cr (267.716 nm)	0.0001 u	> 100.00	8.8067
	R2404367-004L 50X	Cu (327.395 nm)	0.0000 u	> 100.00	-27.4009
	R2404367-004L 50X	Fe (234.350 nm)	0.0053	2.57	96.4170
	R2404367-004L 50X	K (766.491 nm)	0.0723	29.95	-112.7174
	R2404367-004L 50X	Mg (279.078 nm)	0.9128	0.05	2953.2142
	R2404367-004L 50X	Mn (257.610 nm)	0.0040	0.33	1368.5409
	R2404367-004L 50X	Mo (202.032 nm)	0.0000 u	> 100.00	12.4354
	R2404367-004L 50X	Na (588.995 nm)	0.5409	0.26	-6256.9270
	R2404367-004L 50X	Ni (230.299 nm)	-0.0001 u	> 100.00	23.5014
	R2404367-004L 50X	Pb (220.353 nm)	0.0009	42.83	12.6101
	R2404367-004L 50X	Sb (217.582 nm)	0.0007 u	> 100.00	7.8977
	R2404367-004L 50X	Se (196.026 nm)	-0.0032 u	55.37	2.4376
	R2404367-004L 50X	Si (252.851 nm)	0.0997	0.57	412.6326
	R2404367-004L 50X	Sn (189.925 nm)	-0.0006 u	> 100.00	1.6291
	R2404367-004L 50X	Sr (216.596 nm)	0.0593	0.44	1042.6489
	R2404367-004L 50X	Ti (336.122 nm)	0.0002	48.67	184.6388
	R2404367-004L 50X	Tl (190.794 nm)	0.0022 u	91.27	0.8973
	R2404367-004L 50X	V (292.401 nm)	0.0000 u	> 100.00	-42.4054
	R2404367-004L 50X	Y (360.074 nm)	1.01	0.28	494020.44
	R2404367-004L 50X	Y_R (360.074 nm)	1.01	0.28	493095.65
	R2404367-004L 50X	Zn (213.857 nm)	0.0001	99.07	5.6475
6/10/2024 17:44:54	PBW-439398	Ag (328.068 nm)	-0.0001 u	68.31	-220.7940
	PBW-439398	Al (237.312 nm)	0.0058	34.37	26.4938
	PBW-439398	As (188.980 nm)	-0.0001 u	> 100.00	-2.1358
	PBW-439398	B (249.772 nm)	0.0009	13.62	33.1358
	PBW-439398	Ba (230.424 nm)	-0.0001 u	> 100.00	7.9901
	PBW-439398	Be (313.107 nm)	0.0000 u	> 100.00	19.0963
	PBW-439398	Ca (317.933 nm)	0.0056	6.10	2942.3770
	PBW-439398	Cd (214.439 nm)	0.0001	28.64	10.2441
	PBW-439398	Co (230.786 nm)	-0.0001 u	> 100.00	-10.6013
	PBW-439398	Cr (267.716 nm)	0.0003	65.75	20.0573
	PBW-439398	Cu (327.395 nm)	0.0002	23.06	-17.4713
	PBW-439398	Fe (234.350 nm)	0.0011	27.49	19.9340
	PBW-439398	K (766.491 nm)	0.0174 u	> 100.00	-172.9401

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	PBW-439398	Mg (279.078 nm)	0.0017	22.48	-24.3458
	PBW-439398	Mn (257.610 nm)	0.0001	22.47	39.7300
	PBW-439398	Mo (202.032 nm)	0.0000 u	> 100.00	11.6320
	PBW-439398	Na (588.995 nm)	0.0982	4.63	-12286.0936
	PBW-439398	Ni (230.299 nm)	-0.0010 u	10.20	14.0927
	PBW-439398	Pb (220.353 nm)	0.0004 u	> 100.00	9.8511
	PBW-439398	Sb (217.582 nm)	0.0052	24.20	16.1726
	PBW-439398	Se (196.026 nm)	-0.0006 u	> 100.00	4.3749
	PBW-439398	Si (252.851 nm)	0.0149	1.68	89.4272
	PBW-439398	Sn (189.925 nm)	-0.0006 u	80.26	1.6587
	PBW-439398	Sr (216.596 nm)	0.0002	46.48	3.2494
	PBW-439398	Ti (336.122 nm)	-0.0001 u	91.13	141.5899
	PBW-439398	Tl (190.794 nm)	-0.0006 u	> 100.00	-1.7877
	PBW-439398	V (292.401 nm)	0.0001	94.82	-36.1725
	PBW-439398	Y (360.074 nm)	1.03	0.27	501604.19
	PBW-439398	Y_R (360.074 nm)	1.03	0.27	500638.16
	PBW-439398	Zn (213.857 nm)	0.0006	3.73	38.5579
6/10/2024 17:48:08	LCSW-439398	Ag (328.068 nm)	0.0488	0.85	2551.7294
	LCSW-439398	Al (237.312 nm)	1.9479	0.77	4827.5321
	LCSW-439398	As (188.980 nm)	0.0375	4.75	61.5465
	LCSW-439398	B (249.772 nm)	0.9670	0.71	31404.0434
	LCSW-439398	Ba (230.424 nm)	1.8964	0.34	103266.6416
	LCSW-439398	Be (313.107 nm)	0.0480	0.55	52679.8175
	LCSW-439398	Ca (317.933 nm)	1.9939	0.51	73767.6766
	LCSW-439398	Cd (214.439 nm)	0.0501	0.61	2857.2474
	LCSW-439398	Co (230.786 nm)	0.4886	0.49	8851.2007
	LCSW-439398	Cr (267.716 nm)	0.1985	0.46	10321.6299
	LCSW-439398	Cu (327.395 nm)	0.2455	0.46	10747.8360
	LCSW-439398	Fe (234.350 nm)	0.9939	0.62	18097.0370
	LCSW-439398	K (766.491 nm)	18.5517	1.13	20166.5455
	LCSW-439398	Mg (279.078 nm)	1.9266	0.69	6266.2535
	LCSW-439398	Mn (257.610 nm)	0.4789	0.54	159958.1798
	LCSW-439398	Mo (202.032 nm)	0.4890	0.75	5116.3894
	LCSW-439398	Na (588.995 nm)	19.5546	1.05	252679.6385
	LCSW-439398	Ni (230.299 nm)	0.5057	0.50	5963.8984
	LCSW-439398	Pb (220.353 nm)	0.5105	0.64	2672.9619
	LCSW-439398	Sb (217.582 nm)	0.4849	1.23	907.3354
	LCSW-439398	Se (196.026 nm)	0.9610	0.69	705.2706
	LCSW-439398	Si (252.851 nm)	-0.0100 u	19.27	-5.4360
	LCSW-439398	Sn (189.925 nm)	4.8512	0.66	11948.5902
	LCSW-439398	Sr (216.596 nm)	1.9190	0.51	33773.6430
	LCSW-439398	Ti (336.122 nm)	0.4829	0.71	69928.6127
	LCSW-439398	Tl (190.794 nm)	1.9162	0.89	1871.2552
	LCSW-439398	V (292.401 nm)	0.4801	0.65	18159.8151
	LCSW-439398	Y (360.074 nm)	1.00	0.52	490803.00
	LCSW-439398	Y_R (360.074 nm)	1.00	0.52	489835.03
	LCSW-439398	Zn (213.857 nm)	0.4941	0.65	31626.6763
6/10/2024 17:51:22	R2404632-001 10X	Ag (328.068 nm)	-0.0003 u	13.45	-229.4038
	R2404632-001 10X	Al (237.312 nm)	0.0025	54.25	18.3924
	R2404632-001 10X	As (188.980 nm)	0.0003 u	> 100.00	-1.5333
	R2404632-001 10X	B (249.772 nm)	0.2446	0.64	7947.2028
	R2404632-001 10X	Ba (230.424 nm)	0.0163	0.43	900.1729
	R2404632-001 10X	Be (313.107 nm)	0.0000	75.96	39.6536
	R2404632-001 10X	Ca (317.933 nm)	36.1616	0.47	1290833.9637
	R2404632-001 10X	Cd (214.439 nm)	0.0001	82.17	7.4566
	R2404632-001 10X	Co (230.786 nm)	0.0001 u	> 100.00	-8.6116
	R2404632-001 10X	Cr (267.716 nm)	0.0001 u	> 100.00	12.6267

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404632-001 10X	Cu (327.395 nm)	0.0021	16.40	63.7527
	R2404632-001 10X	Fe (234.350 nm)	0.0352	0.71	641.4046
	R2404632-001 10X	K (766.491 nm)	11.8975	0.93	12864.2359
	R2404632-001 10X	Mg (279.078 nm)	11.4110	0.49	37260.2796
	R2404632-001 10X	Mn (257.610 nm)	0.5415	0.53	180852.5985
	R2404632-001 10X	Mo (202.032 nm)	0.0019	53.71	31.9349
	R2404632-001 10X	Na (588.995 nm)	64.3675 o	0.98	862958.0400
	R2404632-001 10X	Ni (230.299 nm)	0.0025	33.64	54.8734
	R2404632-001 10X	Pb (220.353 nm)	0.0007	94.55	11.6723
	R2404632-001 10X	Sb (217.582 nm)	0.0010 u	> 100.00	8.4378
	R2404632-001 10X	Se (196.026 nm)	0.0000 u	> 100.00	4.7510
	R2404632-001 10X	Si (252.851 nm)	0.6548	0.55	2527.8328
	R2404632-001 10X	Sn (189.925 nm)	0.0005 u	> 100.00	4.1728
	R2404632-001 10X	Sr (216.596 nm)	0.1745	0.57	3070.1448
	R2404632-001 10X	Ti (336.122 nm)	0.0010	32.01	300.0854
	R2404632-001 10X	Tl (190.794 nm)	0.0024	24.48	1.1218
	R2404632-001 10X	V (292.401 nm)	0.0000 u	> 100.00	-40.3138
	R2404632-001 10X	Y (360.074 nm)	0.97	0.00	475028.72
	R2404632-001 10X	Y_R (360.074 nm)	0.97	0.00	474091.14
	R2404632-001 10X	Zn (213.857 nm)	0.0015	2.93	96.0655
6/10/2024 17:54:36	Continuing Calibration Verification	Ag (328.068 nm)	0.5033	0.15	28297.0214
	Continuing Calibration Verification	Al (237.312 nm)	9.8341	0.04	24321.8731
	Continuing Calibration Verification	As (188.980 nm)	0.9727	0.46	1647.5319
	Continuing Calibration Verification	B (249.772 nm)	2.4367	0.16	79129.4889
	Continuing Calibration Verification	Ba (230.424 nm)	9.6377	0.14	524754.9475
	Continuing Calibration Verification	Be (313.107 nm)	0.2420	0.24	265640.6446
	Continuing Calibration Verification	Ca (317.933 nm)	25.4842	0.24	910499.5946
	Continuing Calibration Verification	Cd (214.439 nm)	0.4972	0.29	28326.2428
	Continuing Calibration Verification	Co (230.786 nm)	2.4761	0.19	44891.2133
	Continuing Calibration Verification	Cr (267.716 nm)	0.5110	0.27	26568.3940
	Continuing Calibration Verification	Cu (327.395 nm)	1.2225	0.04	53636.3612
	Continuing Calibration Verification	Fe (234.350 nm)	4.9820	0.21	90711.3397
	Continuing Calibration Verification	K (766.491 nm)	24.1265	0.15	26284.3419
	Continuing Calibration Verification	Mg (279.078 nm)	25.0803	0.18	81930.3203
	Continuing Calibration Verification	Mn (257.610 nm)	0.7364	0.21	245941.1185
	Continuing Calibration Verification	Mo (202.032 nm)	2.5926	0.33	27075.1938
	Continuing Calibration Verification	Na (588.995 nm)	25.3357	0.37	331407.9484
	Continuing Calibration Verification	Ni (230.299 nm)	2.0472	0.22	24065.2875
	Continuing Calibration Verification	Pb (220.353 nm)	0.5077	0.24	2658.6822
	Continuing Calibration Verification	Sb (217.582 nm)	4.8362	0.12	8990.1619
	Continuing Calibration Verification	Se (196.026 nm)	0.4741	0.72	350.3687
	Continuing Calibration Verification	Si (252.851 nm)	9.9908	0.34	38100.9786
	Continuing Calibration Verification	Sn (189.925 nm)	4.9781	0.13	12260.9268
	Continuing Calibration Verification	Sr (216.596 nm)	2.4276	0.28	42724.7722
	Continuing Calibration Verification	Ti (336.122 nm)	2.5157	0.20	363609.5736
	Continuing Calibration Verification	Tl (190.794 nm)	0.9725	0.27	949.1316
	Continuing Calibration Verification	V (292.401 nm)	2.4929	0.29	94472.4644
	Continuing Calibration Verification	Y (360.074 nm)	0.97	0.64	475418.04
	Continuing Calibration Verification	Y_R (360.074 nm)	0.97	0.64	474488.23
	Continuing Calibration Verification	Zn (213.857 nm)	0.9813	0.34	62808.8078
6/10/2024 17:57:50	Continuing Calibration Blank	Ag (328.068 nm)	-0.0002 u	27.01	-228.2004
	Continuing Calibration Blank	Al (237.312 nm)	0.0025	55.67	18.5343
	Continuing Calibration Blank	As (188.980 nm)	0.0023 u	88.80	1.8757
	Continuing Calibration Blank	B (249.772 nm)	0.0018	13.59	63.5638
	Continuing Calibration Blank	Ba (230.424 nm)	0.0005	3.85	39.5354
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	33.63	38.9682
	Continuing Calibration Blank	Ca (317.933 nm)	0.0072	1.04	2999.0037

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 u	> 100.00	5.8549
	Continuing Calibration Blank	Co (230.786 nm)	0.0001 u	> 100.00	-7.1015
	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u	> 100.00	8.4717
	Continuing Calibration Blank	Cu (327.395 nm)	0.0003	> 100.00	-16.5758
	Continuing Calibration Blank	Fe (234.350 nm)	0.0021	27.85	37.1821
	Continuing Calibration Blank	K (766.491 nm)	0.0455	10.48	-142.0782
	Continuing Calibration Blank	Mg (279.078 nm)	0.0030	39.32	-19.8154
	Continuing Calibration Blank	Mn (257.610 nm)	0.0001	4.90	42.0506
	Continuing Calibration Blank	Mo (202.032 nm)	0.0034	36.28	47.2296
	Continuing Calibration Blank	Na (588.995 nm)	0.0669	4.83	-12711.8347
	Continuing Calibration Blank	Ni (230.299 nm)	-0.0002 u	> 100.00	23.0033
	Continuing Calibration Blank	Pb (220.353 nm)	0.0004	48.18	10.0927
	Continuing Calibration Blank	Sb (217.582 nm)	0.0035	41.51	13.1473
	Continuing Calibration Blank	Se (196.026 nm)	0.0007 u	> 100.00	5.2805
	Continuing Calibration Blank	Si (252.851 nm)	0.0010	77.85	36.4889
	Continuing Calibration Blank	Sn (189.925 nm)	0.0001 u	> 100.00	3.3184
	Continuing Calibration Blank	Sr (216.596 nm)	0.0003	51.57	4.7619
	Continuing Calibration Blank	Ti (336.122 nm)	0.0025	39.96	515.0756
	Continuing Calibration Blank	Tl (190.794 nm)	0.0009 u	> 100.00	-0.3666
	Continuing Calibration Blank	V (292.401 nm)	0.0002	28.85	-33.9928
	Continuing Calibration Blank	Y (360.074 nm)	1.01	0.28	494416.90
	Continuing Calibration Blank	Y_R (360.074 nm)	1.01	0.27	493466.83
	Continuing Calibration Blank	Zn (213.857 nm)	0.0010	4.45	66.3285
6/10/2024 18:01:03	R2404632-001L 50X	Ag (328.068 nm)	-0.0003 u	19.97	-230.8335
	R2404632-001L 50X	Al (237.312 nm)	0.0027	23.79	18.9541
	R2404632-001L 50X	As (188.980 nm)	-0.0008 u	> 100.00	-3.3098
	R2404632-001L 50X	B (249.772 nm)	0.0501	0.60	1633.6981
	R2404632-001L 50X	Ba (230.424 nm)	0.0034	1.31	195.5167
	R2404632-001L 50X	Be (313.107 nm)	0.0000 u	> 100.00	25.4778
	R2404632-001L 50X	Ca (317.933 nm)	7.5565	0.41	271908.8483
	R2404632-001L 50X	Cd (214.439 nm)	0.0000	87.59	4.0513
	R2404632-001L 50X	Co (230.786 nm)	-0.0001 u	> 100.00	-11.4952
	R2404632-001L 50X	Cr (267.716 nm)	-0.0001 u	> 100.00	2.5323
	R2404632-001L 50X	Cu (327.395 nm)	0.0005	32.24	-3.5463
	R2404632-001L 50X	Fe (234.350 nm)	0.0070	8.25	127.7548
	R2404632-001L 50X	K (766.491 nm)	2.3913	0.78	2432.1525
	R2404632-001L 50X	Mg (279.078 nm)	2.3784	0.41	7742.6533
	R2404632-001L 50X	Mn (257.610 nm)	0.1133	0.43	37857.7513
	R2404632-001L 50X	Mo (202.032 nm)	0.0009	40.60	21.7429
	R2404632-001L 50X	Na (588.995 nm)	13.4688	0.13	169801.1145
	R2404632-001L 50X	Ni (230.299 nm)	0.0006 u	98.46	32.6814
	R2404632-001L 50X	Pb (220.353 nm)	0.0001 u	> 100.00	8.5759
	R2404632-001L 50X	Sb (217.582 nm)	0.0005 u	> 100.00	7.5314
	R2404632-001L 50X	Se (196.026 nm)	0.0016 u	> 100.00	5.9431
	R2404632-001L 50X	Si (252.851 nm)	0.1526	0.77	614.2365
	R2404632-001L 50X	Sn (189.925 nm)	0.0000 u	> 100.00	3.0095
	R2404632-001L 50X	Sr (216.596 nm)	0.0367	0.35	646.0778
	R2404632-001L 50X	Ti (336.122 nm)	0.0008	50.49	273.5422
	R2404632-001L 50X	Tl (190.794 nm)	-0.0001 u	> 100.00	-1.2587
	R2404632-001L 50X	V (292.401 nm)	-0.0001 u	> 100.00	-42.6214
	R2404632-001L 50X	Y (360.074 nm)	1.00	0.13	490403.06
	R2404632-001L 50X	Y_R (360.074 nm)	1.00	0.13	489434.19
	R2404632-001L 50X	Zn (213.857 nm)	0.0002	16.68	14.4146
6/10/2024 18:04:17	R2404651-006 10X	Ag (328.068 nm)	-0.0003 u	20.14	-229.6057
	R2404651-006 10X	Al (237.312 nm)	0.0092	11.11	35.0462
	R2404651-006 10X	As (188.980 nm)	-0.0001 u	> 100.00	-2.2486
	R2404651-006 10X	B (249.772 nm)	0.1144	0.13	3720.3111

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404651-006 10X	Ba (230.424 nm)	0.0038	1.39	219.8372
	R2404651-006 10X	Be (313.107 nm)	0.0000	> 100.00	24.3172
	R2404651-006 10X	Ca (317.933 nm)	16.2580	0.25	581860.2291
	R2404651-006 10X	Cd (214.439 nm)	0.0001 u	> 100.00	5.3773
	R2404651-006 10X	Co (230.786 nm)	0.0001	64.76	-8.0963
	R2404651-006 10X	Cr (267.716 nm)	0.0003	60.82	19.3990
	R2404651-006 10X	Cu (327.395 nm)	0.0004	71.69	-9.7733
	R2404651-006 10X	Fe (234.350 nm)	0.0133	3.09	241.8778
	R2404651-006 10X	K (766.491 nm)	0.4428	5.78	293.8925
	R2404651-006 10X	Mg (279.078 nm)	11.5069	0.17	37573.8492
	R2404651-006 10X	Mn (257.610 nm)	0.0016	0.80	546.1598
	R2404651-006 10X	Mo (202.032 nm)	0.0009	15.08	21.1563
	R2404651-006 10X	Na (588.995 nm)	22.1237	0.12	287666.8282
	R2404651-006 10X	Ni (230.299 nm)	0.0003	> 100.00	28.6540
	R2404651-006 10X	Pb (220.353 nm)	0.0007	63.30	11.3880
	R2404651-006 10X	Sb (217.582 nm)	0.0015	53.85	9.3748
	R2404651-006 10X	Se (196.026 nm)	-0.0012 u	67.58	3.8769
	R2404651-006 10X	Si (252.851 nm)	1.1583	0.17	4446.2454
	R2404651-006 10X	Sn (189.925 nm)	0.0003 u	> 100.00	3.8675
	R2404651-006 10X	Sr (216.596 nm)	0.4539	0.37	7987.1910
	R2404651-006 10X	Ti (336.122 nm)	0.0006	32.99	246.9928
	R2404651-006 10X	Tl (190.794 nm)	0.0021	97.63	0.8381
	R2404651-006 10X	V (292.401 nm)	0.0000 u	> 100.00	-39.3942
	R2404651-006 10X	Y (360.074 nm)	0.99	0.27	485641.55
	R2404651-006 10X	Y_R (360.074 nm)	0.99	0.27	484684.82
	R2404651-006 10X	Zn (213.857 nm)	0.0003	35.25	22.1453
6/10/2024 18:07:31	R2404693-002 20X	Ag (328.068 nm)	-0.0002 u	16.37	-228.5871
	R2404693-002 20X	Al (237.312 nm)	0.0022	49.88	17.7868
	R2404693-002 20X	As (188.980 nm)	-0.0008 u	81.15	-3.4592
	R2404693-002 20X	B (249.772 nm)	0.0537	0.44	1749.4598
	R2404693-002 20X	Ba (230.424 nm)	0.0008	7.94	56.5563
	R2404693-002 20X	Be (313.107 nm)	0.0000	17.45	44.4272
	R2404693-002 20X	Ca (317.933 nm)	42.5080	0.10	1516894.7020
	R2404693-002 20X	Cd (214.439 nm)	0.0001 u	> 100.00	4.9488
	R2404693-002 20X	Co (230.786 nm)	-0.0003 u	47.12	-15.1390
	R2404693-002 20X	Cr (267.716 nm)	-0.0001 u	> 100.00	1.0434
	R2404693-002 20X	Cu (327.395 nm)	0.0000 u	> 100.00	-26.9947
	R2404693-002 20X	Fe (234.350 nm)	0.0063	6.70	114.2800
	R2404693-002 20X	K (766.491 nm)	1.1805	1.21	1103.3925
	R2404693-002 20X	Mg (279.078 nm)	6.2798	0.07	20491.9496
	R2404693-002 20X	Mn (257.610 nm)	0.0153	0.11	5144.2250
	R2404693-002 20X	Mo (202.032 nm)	0.0002 u	> 100.00	13.6395
	R2404693-002 20X	Na (588.995 nm)	26.3472	0.36	345183.9377
	R2404693-002 20X	Ni (230.299 nm)	-0.0005 u	85.63	18.8716
	R2404693-002 20X	Pb (220.353 nm)	0.0005	> 100.00	10.7042
	R2404693-002 20X	Sb (217.582 nm)	-0.0009 u	> 100.00	4.8333
	R2404693-002 20X	Se (196.026 nm)	-0.0001 u	> 100.00	4.7168
	R2404693-002 20X	Si (252.851 nm)	0.3126	0.27	1223.9091
	R2404693-002 20X	Sn (189.925 nm)	-0.0009 u	68.86	0.8683
	R2404693-002 20X	Sr (216.596 nm)	0.6303	0.17	11093.0165
	R2404693-002 20X	Ti (336.122 nm)	0.0005	35.94	228.6043
	R2404693-002 20X	Tl (190.794 nm)	0.0021	52.99	0.8673
	R2404693-002 20X	V (292.401 nm)	-0.0001 u	> 100.00	-45.4054
	R2404693-002 20X	Y (360.074 nm)	0.99	0.11	481356.68
	R2404693-002 20X	Y_R (360.074 nm)	0.98	0.11	480408.43
	R2404693-002 20X	Zn (213.857 nm)	0.0001	52.32	5.5462
6/10/2024 18:10:45	R2404693-003 10X	Ag (328.068 nm)	-0.0002 u	37.76	-223.2711

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404693-003 10X	Al (237.312 nm)	0.0032	15.51	20.1029
	R2404693-003 10X	As (188.980 nm)	0.0054	48.57	7.1537
	R2404693-003 10X	B (249.772 nm)	0.9673	0.23	31416.4549
	R2404693-003 10X	Ba (230.424 nm)	0.0409	0.40	2237.0570
	R2404693-003 10X	Be (313.107 nm)	0.0000 u	> 100.00	26.4601
	R2404693-003 10X	Ca (317.933 nm)	13.0236	0.20	466649.7154
	R2404693-003 10X	Cd (214.439 nm)	0.0001	34.30	8.4919
	R2404693-003 10X	Co (230.786 nm)	-0.0002 u	> 100.00	-12.5476
	R2404693-003 10X	Cr (267.716 nm)	0.0002	44.45	16.6048
	R2404693-003 10X	Cu (327.395 nm)	0.0002 u	> 100.00	-16.8569
	R2404693-003 10X	Fe (234.350 nm)	1.3924	0.15	25353.1086
	R2404693-003 10X	K (766.491 nm)	0.4624	4.43	315.4292
	R2404693-003 10X	Mg (279.078 nm)	24.5576	0.20	80222.1713
	R2404693-003 10X	Mn (257.610 nm)	0.0056	0.09	1888.1679
	R2404693-003 10X	Mo (202.032 nm)	0.0006	39.16	18.1832
	R2404693-003 10X	Na (588.995 nm)	29.4928	0.07	388021.5619
	R2404693-003 10X	Ni (230.299 nm)	0.0032	7.69	63.1900
	R2404693-003 10X	Pb (220.353 nm)	0.0007	26.57	11.5478
	R2404693-003 10X	Sb (217.582 nm)	0.0004 u	> 100.00	7.3889
	R2404693-003 10X	Se (196.026 nm)	-0.0014 u	> 100.00	3.7898
	R2404693-003 10X	Si (252.851 nm)	1.0576	0.22	4062.3062
	R2404693-003 10X	Sn (189.925 nm)	0.0003 u	> 100.00	3.6515
	R2404693-003 10X	Sr (216.596 nm)	0.2560	0.13	4505.5708
	R2404693-003 10X	Ti (336.122 nm)	0.0003	60.47	192.4378
	R2404693-003 10X	Tl (190.794 nm)	0.0021	79.07	0.8451
	R2404693-003 10X	V (292.401 nm)	0.0001 u	> 100.00	-38.3206
	R2404693-003 10X	Y (360.074 nm)	0.99	0.29	483472.32
	R2404693-003 10X	Y_R (360.074 nm)	0.99	0.29	482520.23
	R2404693-003 10X	Zn (213.857 nm)	0.0007	4.06	44.7725
6/10/2024 18:14:00	R2404693-006 20X	Ag (328.068 nm)	-0.0003 u	49.55	-231.6299
	R2404693-006 20X	Al (237.312 nm)	0.0015	58.07	16.0859
	R2404693-006 20X	As (188.980 nm)	-0.0004 u	> 100.00	-2.7291
	R2404693-006 20X	B (249.772 nm)	0.0972	0.12	3162.3077
	R2404693-006 20X	Ba (230.424 nm)	0.0005	7.84	38.4568
	R2404693-006 20X	Be (313.107 nm)	0.0000	60.75	29.2617
	R2404693-006 20X	Ca (317.933 nm)	33.2169	0.27	1185942.4943
	R2404693-006 20X	Cd (214.439 nm)	0.0001	67.89	5.4079
	R2404693-006 20X	Co (230.786 nm)	-0.0001 u	> 100.00	-11.5169
	R2404693-006 20X	Cr (267.716 nm)	0.0000 u	> 100.00	3.4339
	R2404693-006 20X	Cu (327.395 nm)	0.0009	32.52	10.1327
	R2404693-006 20X	Fe (234.350 nm)	0.0109	4.08	198.8869
	R2404693-006 20X	K (766.491 nm)	0.8854	3.66	779.5613
	R2404693-006 20X	Mg (279.078 nm)	4.0843	0.14	13317.3149
	R2404693-006 20X	Mn (257.610 nm)	0.0104	0.45	3481.4586
	R2404693-006 20X	Mo (202.032 nm)	0.0004	24.64	16.2578
	R2404693-006 20X	Na (588.995 nm)	3.1734	0.16	29593.8022
	R2404693-006 20X	Ni (230.299 nm)	0.0050	5.06	84.2428
	R2404693-006 20X	Pb (220.353 nm)	0.0005	66.72	10.7271
	R2404693-006 20X	Sb (217.582 nm)	-0.0022 u	78.60	2.5473
	R2404693-006 20X	Se (196.026 nm)	0.0002 u	> 100.00	4.9519
	R2404693-006 20X	Si (252.851 nm)	0.2818	0.47	1106.3118
	R2404693-006 20X	Sn (189.925 nm)	-0.0004 u	> 100.00	2.0517
	R2404693-006 20X	Sr (216.596 nm)	0.5630	0.26	9907.6113
	R2404693-006 20X	Ti (336.122 nm)	0.0003	46.28	203.9050
	R2404693-006 20X	Tl (190.794 nm)	0.0015	45.11	0.2977
	R2404693-006 20X	V (292.401 nm)	-0.0001 u	> 100.00	-44.2115
	R2404693-006 20X	Y (360.074 nm)	1.00	0.24	488674.79

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404693-006 20X	Y_R (360.074 nm)	1.00	0.24	487705.91
	R2404693-006 20X	Zn (213.857 nm)	0.0006	1.85	39.9676
6/10/2024 18:17:14	R2404693-008 20X	Ag (328.068 nm)	-0.0002 u	58.67	-224.2292
	R2404693-008 20X	Al (237.312 nm)	0.0050	19.50	24.5614
	R2404693-008 20X	As (188.980 nm)	-0.0005 u	> 100.00	-2.7986
	R2404693-008 20X	B (249.772 nm)	0.0145	1.41	475.2335
	R2404693-008 20X	Ba (230.424 nm)	0.0008	17.24	52.8324
	R2404693-008 20X	Be (313.107 nm)	0.0000	61.41	29.5121
	R2404693-008 20X	Ca (317.933 nm)	37.6695	0.48	1344548.2670
	R2404693-008 20X	Cd (214.439 nm)	0.0001	76.23	5.4655
	R2404693-008 20X	Co (230.786 nm)	-0.0002 u	44.07	-12.7915
	R2404693-008 20X	Cr (267.716 nm)	0.0001	20.14	10.9553
	R2404693-008 20X	Cu (327.395 nm)	0.0002	49.20	-18.9664
	R2404693-008 20X	Fe (234.350 nm)	0.3006	0.22	5473.7465
	R2404693-008 20X	K (766.491 nm)	0.5440	3.25	404.9093
	R2404693-008 20X	Mg (279.078 nm)	6.8916	0.43	22491.2961
	R2404693-008 20X	Mn (257.610 nm)	0.0045	0.98	1523.0228
	R2404693-008 20X	Mo (202.032 nm)	-0.0003 u	53.85	8.6193
	R2404693-008 20X	Na (588.995 nm)	5.5137	0.20	61465.0302
	R2404693-008 20X	Ni (230.299 nm)	0.0015	8.21	43.0169
	R2404693-008 20X	Pb (220.353 nm)	0.0006	> 100.00	10.8199
	R2404693-008 20X	Sb (217.582 nm)	0.0015	80.69	9.4494
	R2404693-008 20X	Se (196.026 nm)	-0.0011 u	> 100.00	3.9419
	R2404693-008 20X	Si (252.851 nm)	0.3142	0.34	1229.9918
	R2404693-008 20X	Sn (189.925 nm)	-0.0003 u	> 100.00	2.3520
	R2404693-008 20X	Sr (216.596 nm)	0.6504	0.59	11445.4306
	R2404693-008 20X	Ti (336.122 nm)	0.0005	27.65	225.5180
	R2404693-008 20X	Tl (190.794 nm)	0.0017 u	> 100.00	0.4423
	R2404693-008 20X	V (292.401 nm)	0.0000 u	> 100.00	-39.3535
	R2404693-008 20X	Y (360.074 nm)	1.00	0.11	486573.71
	R2404693-008 20X	Y_R (360.074 nm)	1.00	0.11	485594.39
	R2404693-008 20X	Zn (213.857 nm)	0.0009	6.52	60.1716
6/10/2024 18:20:29	R2404693-009 20X	Ag (328.068 nm)	-0.0002 u	43.75	-227.9258
	R2404693-009 20X	Al (237.312 nm)	0.0120	5.01	42.0000
	R2404693-009 20X	As (188.980 nm)	-0.0007 u	> 100.00	-3.2340
	R2404693-009 20X	B (249.772 nm)	0.2700	0.25	8772.9922
	R2404693-009 20X	Ba (230.424 nm)	0.0005	9.62	36.6693
	R2404693-009 20X	Be (313.107 nm)	0.0000	27.03	48.2690
	R2404693-009 20X	Ca (317.933 nm)	28.8714	0.38	1031154.9165
	R2404693-009 20X	Cd (214.439 nm)	0.0001	27.47	5.7139
	R2404693-009 20X	Co (230.786 nm)	0.0000 u	> 100.00	-10.0619
	R2404693-009 20X	Cr (267.716 nm)	0.0000 u	> 100.00	7.2629
	R2404693-009 20X	Cu (327.395 nm)	0.0001 u	> 100.00	-23.4083
	R2404693-009 20X	Fe (234.350 nm)	0.0340	1.71	618.7322
	R2404693-009 20X	K (766.491 nm)	1.3732	4.16	1314.9221
	R2404693-009 20X	Mg (279.078 nm)	4.4983	0.44	14670.3085
	R2404693-009 20X	Mn (257.610 nm)	0.0077	0.17	2593.7373
	R2404693-009 20X	Mo (202.032 nm)	0.0000 u	> 100.00	11.7745
	R2404693-009 20X	Na (588.995 nm)	6.9800	0.25	81434.0471
	R2404693-009 20X	Ni (230.299 nm)	0.0001 u	> 100.00	26.3108
	R2404693-009 20X	Pb (220.353 nm)	0.0005	80.02	10.4399
	R2404693-009 20X	Sb (217.582 nm)	0.0003 u	> 100.00	7.2187
	R2404693-009 20X	Se (196.026 nm)	-0.0010 u	> 100.00	4.0853
	R2404693-009 20X	Si (252.851 nm)	0.2503	0.19	986.5798
	R2404693-009 20X	Sn (189.925 nm)	0.0004 u	> 100.00	3.9999
	R2404693-009 20X	Sr (216.596 nm)	0.5357	0.39	9427.1840
	R2404693-009 20X	Ti (336.122 nm)	0.0006	1.31	238.9413

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404693-009 20X	Tl (190.794 nm)	0.0010 u	> 100.00	-0.2470
	R2404693-009 20X	V (292.401 nm)	-0.0001 u	> 100.00	-42.7126
	R2404693-009 20X	Y (360.074 nm)	1.00	0.11	487922.46
	R2404693-009 20X	Y_R (360.074 nm)	1.00	0.11	486953.31
	R2404693-009 20X	Zn (213.857 nm)	0.0003	19.18	18.9567
6/10/2024 18:23:42	PBW-439400	Ag (328.068 nm)	-0.0003 u	47.40	-228.9973
	PBW-439400	Al (237.312 nm)	0.0038	80.22	21.6956
	PBW-439400	As (188.980 nm)	0.0000 u	> 100.00	-2.0491
	PBW-439400	B (249.772 nm)	0.0022	3.97	76.4692
	PBW-439400	Ba (230.424 nm)	-0.0001 u	32.17	3.8714
	PBW-439400	Be (313.107 nm)	0.0000	81.06	26.1500
	PBW-439400	Ca (317.933 nm)	0.0044	6.33	2901.2828
	PBW-439400	Cd (214.439 nm)	0.0002	24.45	11.3249
	PBW-439400	Co (230.786 nm)	-0.0002 u	> 100.00	-13.5440
	PBW-439400	Cr (267.716 nm)	0.0003	68.60	20.9027
	PBW-439400	Cu (327.395 nm)	0.0002	62.81	-17.2534
	PBW-439400	Fe (234.350 nm)	0.0019	3.53	34.6602
	PBW-439400	K (766.491 nm)	-0.0167 u	> 100.00	-210.3927
	PBW-439400	Mg (279.078 nm)	0.0008 u	> 100.00	-27.1721
	PBW-439400	Mn (257.610 nm)	0.0000	22.88	30.7420
	PBW-439400	Mo (202.032 nm)	0.0002	85.21	13.7872
	PBW-439400	Na (588.995 nm)	0.0612	7.61	-12788.8365
	PBW-439400	Ni (230.299 nm)	-0.0005 u	52.60	19.1048
	PBW-439400	Pb (220.353 nm)	0.0004 u	> 100.00	10.0661
	PBW-439400	Sb (217.582 nm)	0.0048	41.01	15.5254
	PBW-439400	Se (196.026 nm)	0.0007 u	> 100.00	5.3118
	PBW-439400	Si (252.851 nm)	0.0068	26.22	58.6031
	PBW-439400	Sn (189.925 nm)	-0.0002 u	> 100.00	2.6062
	PBW-439400	Sr (216.596 nm)	0.0002	22.07	2.9316
	PBW-439400	Ti (336.122 nm)	-0.0001 u	> 100.00	135.9163
	PBW-439400	Tl (190.794 nm)	-0.0008 u	> 100.00	-2.0060
	PBW-439400	V (292.401 nm)	0.0000 u	> 100.00	-42.1710
	PBW-439400	Y (360.074 nm)	1.02	0.36	500277.12
	PBW-439400	Y_R (360.074 nm)	1.02	0.36	499310.62
	PBW-439400	Zn (213.857 nm)	-0.0002 u	9.93	-11.9348
6/10/2024 18:26:56	LCSW-439400	Ag (328.068 nm)	0.0495	0.15	2586.8511
	LCSW-439400	Al (237.312 nm)	1.9666	0.15	4873.6423
	LCSW-439400	As (188.980 nm)	0.0392	1.23	64.5297
	LCSW-439400	B (249.772 nm)	0.9773	0.13	31740.4733
	LCSW-439400	Ba (230.424 nm)	1.9178	0.35	104429.1937
	LCSW-439400	Be (313.107 nm)	0.0485	0.22	53221.3499
	LCSW-439400	Ca (317.933 nm)	2.0163	0.26	74563.1334
	LCSW-439400	Cd (214.439 nm)	0.0506	0.11	2886.7157
	LCSW-439400	Co (230.786 nm)	0.4939	0.25	8946.6485
	LCSW-439400	Cr (267.716 nm)	0.2008	0.47	10445.7170
	LCSW-439400	Cu (327.395 nm)	0.2486	0.10	10886.8614
	LCSW-439400	Fe (234.350 nm)	1.0107	0.25	18403.1763
	LCSW-439400	K (766.491 nm)	18.8047	0.33	20444.2187
	LCSW-439400	Mg (279.078 nm)	1.9471	0.28	6333.1410
	LCSW-439400	Mn (257.610 nm)	0.4843	0.23	161764.8789
	LCSW-439400	Mo (202.032 nm)	0.5006	0.27	5237.3928
	LCSW-439400	Na (588.995 nm)	19.7976	0.25	255988.5643
	LCSW-439400	Ni (230.299 nm)	0.5125	0.28	6043.7099
	LCSW-439400	Pb (220.353 nm)	0.5164	0.16	2703.7629
	LCSW-439400	Sb (217.582 nm)	0.4859	0.62	909.2174
	LCSW-439400	Se (196.026 nm)	0.9706	0.47	712.2639
	LCSW-439400	Si (252.851 nm)	-0.0118 u	8.24	-12.2501

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	LCSW-439400	Sn (189.925 nm)	4.8939	0.17	12053.6415
	LCSW-439400	Sr (216.596 nm)	1.9377	0.26	34101.2953
	LCSW-439400	Ti (336.122 nm)	0.4924	0.08	71288.7535
	LCSW-439400	Tl (190.794 nm)	1.9390	0.24	1893.5319
	LCSW-439400	V (292.401 nm)	0.4857	0.21	18374.4286
	LCSW-439400	Y (360.074 nm)	1.00	0.38	489975.56
	LCSW-439400	Y_R (360.074 nm)	1.00	0.38	489010.44
	LCSW-439400	Zn (213.857 nm)	0.5001	0.15	32009.4829
6/10/2024 18:30:10	DLCSW-439400	Ag (328.068 nm)	0.0499	0.24	2614.5038
	DLCSW-439400	Al (237.312 nm)	1.9780	0.16	4901.6973
	DLCSW-439400	As (188.980 nm)	0.0367	2.96	60.2473
	DLCSW-439400	B (249.772 nm)	0.9869	0.12	32051.2226
	DLCSW-439400	Ba (230.424 nm)	1.9303	0.42	105112.2062
	DLCSW-439400	Be (313.107 nm)	0.0489	0.23	53638.8926
	DLCSW-439400	Ca (317.933 nm)	2.0296	0.27	75036.6066
	DLCSW-439400	Cd (214.439 nm)	0.0510	0.32	2904.8407
	DLCSW-439400	Co (230.786 nm)	0.4974	0.18	9009.3178
	DLCSW-439400	Cr (267.716 nm)	0.2023	0.19	10519.8431
	DLCSW-439400	Cu (327.395 nm)	0.2503	0.20	10961.2341
	DLCSW-439400	Fe (234.350 nm)	1.0117	0.24	18421.1607
	DLCSW-439400	K (766.491 nm)	18.9581	0.25	20612.5511
	DLCSW-439400	Mg (279.078 nm)	1.9592	0.17	6372.8676
	DLCSW-439400	Mn (257.610 nm)	0.4880	0.25	162983.3917
	DLCSW-439400	Mo (202.032 nm)	0.5033	0.38	5265.8736
	DLCSW-439400	Na (588.995 nm)	19.8971	0.30	257343.8523
	DLCSW-439400	Ni (230.299 nm)	0.5150	0.28	6073.2807
	DLCSW-439400	Pb (220.353 nm)	0.5210	0.27	2727.8383
	DLCSW-439400	Sb (217.582 nm)	0.4882	0.22	913.4898
	DLCSW-439400	Se (196.026 nm)	0.9797	0.44	718.8980
	DLCSW-439400	Si (252.851 nm)	-0.0125 u	12.56	-15.0305
	DLCSW-439400	Sn (189.925 nm)	4.8964	0.28	12059.7121
	DLCSW-439400	Sr (216.596 nm)	1.9397	0.30	34136.7060
	DLCSW-439400	Ti (336.122 nm)	0.4935	0.06	71447.5460
	DLCSW-439400	Tl (190.794 nm)	1.9521	0.37	1906.3195
	DLCSW-439400	V (292.401 nm)	0.4893	0.23	18509.4985
	DLCSW-439400	Y (360.074 nm)	1.00	0.33	489087.11
	DLCSW-439400	Y_R (360.074 nm)	1.00	0.33	488124.67
	DLCSW-439400	Zn (213.857 nm)	0.5035	0.13	32228.3692
6/10/2024 18:33:24	Continuing Calibration Verification	Ag (328.068 nm)	0.5037	0.07	28322.0367
	Continuing Calibration Verification	Al (237.312 nm)	9.8131	0.10	24269.7782
	Continuing Calibration Verification	As (188.980 nm)	0.9735	0.29	1648.9220
	Continuing Calibration Verification	B (249.772 nm)	2.4376	0.20	79158.6049
	Continuing Calibration Verification	Ba (230.424 nm)	9.6526	0.50	525566.1247
	Continuing Calibration Verification	Be (313.107 nm)	0.2425	0.24	266134.7492
	Continuing Calibration Verification	Ca (317.933 nm)	25.5542	0.24	912995.7300
	Continuing Calibration Verification	Cd (214.439 nm)	0.4995	0.36	28456.3494
	Continuing Calibration Verification	Co (230.786 nm)	2.4869	0.34	45087.2014
	Continuing Calibration Verification	Cr (267.716 nm)	0.5120	0.32	26619.2067
	Continuing Calibration Verification	Cu (327.395 nm)	1.2267	0.28	53822.9298
	Continuing Calibration Verification	Fe (234.350 nm)	4.9942	0.21	90934.7297
	Continuing Calibration Verification	K (766.491 nm)	24.0262	0.19	26174.2462
	Continuing Calibration Verification	Mg (279.078 nm)	25.1482	0.25	82152.5026
	Continuing Calibration Verification	Mn (257.610 nm)	0.7376	0.23	246350.2428
	Continuing Calibration Verification	Mo (202.032 nm)	2.6129	0.32	27287.6904
	Continuing Calibration Verification	Na (588.995 nm)	25.2196	0.38	329827.9403
	Continuing Calibration Verification	Ni (230.299 nm)	2.0501	0.24	24099.1071
	Continuing Calibration Verification	Pb (220.353 nm)	0.5087	0.52	2663.5619

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	Sb (217.582 nm)	4.7997	0.19	8922.3994
	Continuing Calibration Verification	Se (196.026 nm)	0.4776	0.58	352.9323
	Continuing Calibration Verification	Si (252.851 nm)	9.9818	0.37	38066.8859
	Continuing Calibration Verification	Sn (189.925 nm)	4.9764	0.10	12256.8601
	Continuing Calibration Verification	Sr (216.596 nm)	2.4380	0.40	42907.4204
	Continuing Calibration Verification	Ti (336.122 nm)	2.5196	0.10	364174.4339
	Continuing Calibration Verification	Tl (190.794 nm)	0.9779	0.41	954.3971
	Continuing Calibration Verification	V (292.401 nm)	2.4991	0.19	94706.8411
	Continuing Calibration Verification	Y (360.074 nm)	0.97	0.34	475768.25
	Continuing Calibration Verification	Y_R (360.074 nm)	0.97	0.34	474830.46
	Continuing Calibration Verification	Zn (213.857 nm)	0.9828	0.22	62910.2750
6/10/2024 18:36:38	Continuing Calibration Blank	Ag (328.068 nm)	-0.0001 u	43.88	-221.9603
	Continuing Calibration Blank	Al (237.312 nm)	0.0028	10.86	19.2199
	Continuing Calibration Blank	As (188.980 nm)	-0.0003 u	> 100.00	-2.5135
	Continuing Calibration Blank	B (249.772 nm)	0.0020	17.82	69.7265
	Continuing Calibration Blank	Ba (230.424 nm)	0.0007	11.20	49.1371
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	38.06	41.2670
	Continuing Calibration Blank	Ca (317.933 nm)	0.0078	4.98	3019.7737
	Continuing Calibration Blank	Cd (214.439 nm)	0.0001	30.08	9.0008
	Continuing Calibration Blank	Co (230.786 nm)	0.0001 u	> 100.00	-7.7143
	Continuing Calibration Blank	Cr (267.716 nm)	0.0001	> 100.00	11.8256
	Continuing Calibration Blank	Cu (327.395 nm)	0.0004	91.45	-8.8053
	Continuing Calibration Blank	Fe (234.350 nm)	0.0024	30.31	42.5970
	Continuing Calibration Blank	K (766.491 nm)	0.0305	24.21	-158.5539
	Continuing Calibration Blank	Mg (279.078 nm)	0.0027	38.53	-21.0331
	Continuing Calibration Blank	Mn (257.610 nm)	0.0001	3.47	47.6450
	Continuing Calibration Blank	Mo (202.032 nm)	0.0035	31.48	48.8744
	Continuing Calibration Blank	Na (588.995 nm)	0.0462	9.46	-12994.2603
	Continuing Calibration Blank	Ni (230.299 nm)	0.0004 u	> 100.00	29.5761
	Continuing Calibration Blank	Pb (220.353 nm)	0.0002 u	> 100.00	8.9449
	Continuing Calibration Blank	Sb (217.582 nm)	0.0047	7.86	15.2520
	Continuing Calibration Blank	Se (196.026 nm)	-0.0006 u	> 100.00	4.3324
	Continuing Calibration Blank	Si (252.851 nm)	0.0009 u	> 100.00	36.0300
	Continuing Calibration Blank	Sn (189.925 nm)	0.0011	21.12	5.7344
	Continuing Calibration Blank	Sr (216.596 nm)	0.0003	74.31	5.2352
	Continuing Calibration Blank	Ti (336.122 nm)	0.0026	41.62	535.7307
	Continuing Calibration Blank	Tl (190.794 nm)	0.0007	55.34	-0.4858
	Continuing Calibration Blank	V (292.401 nm)	-0.0001 u	> 100.00	-43.2231
	Continuing Calibration Blank	Y (360.074 nm)	1.01	0.29	495448.73
	Continuing Calibration Blank	Y_R (360.074 nm)	1.01	0.29	494479.98
	Continuing Calibration Blank	Zn (213.857 nm)	0.0010	2.05	64.7724
6/10/2024 18:39:52	R2404693-011 10X	Ag (328.068 nm)	-0.0001 u	39.84	-222.2059
	R2404693-011 10X	Al (237.312 nm)	0.0062	45.58	27.6807
	R2404693-011 10X	As (188.980 nm)	0.0002 u	> 100.00	-1.7177
	R2404693-011 10X	B (249.772 nm)	0.0641	0.41	2088.1296
	R2404693-011 10X	Ba (230.424 nm)	0.0087	1.15	486.0927
	R2404693-011 10X	Be (313.107 nm)	0.0000	86.15	30.6602
	R2404693-011 10X	Ca (317.933 nm)	26.1765	0.06	935162.9840
	R2404693-011 10X	Cd (214.439 nm)	0.0001	17.48	7.1523
	R2404693-011 10X	Co (230.786 nm)	-0.0001 u	> 100.00	-11.7705
	R2404693-011 10X	Cr (267.716 nm)	0.0000 u	> 100.00	6.7563
	R2404693-011 10X	Cu (327.395 nm)	0.0003	85.49	-13.9408
	R2404693-011 10X	Fe (234.350 nm)	0.5293	0.04	9636.5866
	R2404693-011 10X	K (766.491 nm)	3.9655	0.81	4159.7136
	R2404693-011 10X	Mg (279.078 nm)	14.7715	0.05	48242.1963
	R2404693-011 10X	Mn (257.610 nm)	0.0029	1.52	973.2607
	R2404693-011 10X	Mo (202.032 nm)	0.0008	14.89	20.2957

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404693-011 10X	Na (588.995 nm)	27.3875	0.30	359350.1086
	R2404693-011 10X	Ni (230.299 nm)	0.0055	2.27	89.5096
	R2404693-011 10X	Pb (220.353 nm)	0.0010	> 100.00	12.9864
	R2404693-011 10X	Sb (217.582 nm)	0.0003 u	> 100.00	7.2020
	R2404693-011 10X	Se (196.026 nm)	0.0003 u	> 100.00	5.0134
	R2404693-011 10X	Si (252.851 nm)	0.6908	0.00	2664.9195
	R2404693-011 10X	Sn (189.925 nm)	-0.0001 u	> 100.00	2.7960
	R2404693-011 10X	Sr (216.596 nm)	0.8456	0.07	14882.0562
	R2404693-011 10X	Ti (336.122 nm)	0.0011	37.37	317.5331
	R2404693-011 10X	Tl (190.794 nm)	0.0016 u	> 100.00	0.3730
	R2404693-011 10X	V (292.401 nm)	0.0000 u	> 100.00	-39.8507
	R2404693-011 10X	Y (360.074 nm)	0.99	0.21	482498.94
	R2404693-011 10X	Y_R (360.074 nm)	0.99	0.21	481536.72
	R2404693-011 10X	Zn (213.857 nm)	0.0003	26.50	18.6321
6/10/2024 18:43:06	R2404693-011 50X	Ag (328.068 nm)	-0.0001 u	95.52	-221.4014
	R2404693-011 50X	Al (237.312 nm)	0.0037	24.43	21.3725
	R2404693-011 50X	As (188.980 nm)	-0.0011 u	53.30	-3.9128
	R2404693-011 50X	B (249.772 nm)	0.0131	0.83	430.2695
	R2404693-011 50X	Ba (230.424 nm)	0.0016	4.50	100.7925
	R2404693-011 50X	Be (313.107 nm)	0.0000	88.35	27.4677
	R2404693-011 50X	Ca (317.933 nm)	5.2586	0.28	190057.3983
	R2404693-011 50X	Cd (214.439 nm)	0.0001	71.15	5.3784
	R2404693-011 50X	Co (230.786 nm)	0.0001 u	> 100.00	-8.3725
	R2404693-011 50X	Cr (267.716 nm)	0.0000 u	> 100.00	4.1970
	R2404693-011 50X	Cu (327.395 nm)	0.0001 u	> 100.00	-22.6230
	R2404693-011 50X	Fe (234.350 nm)	0.1066	0.08	1940.8183
	R2404693-011 50X	K (766.491 nm)	0.7585	1.62	640.3689
	R2404693-011 50X	Mg (279.078 nm)	2.9540	0.27	9623.7791
	R2404693-011 50X	Mn (257.610 nm)	0.0006	0.44	215.2242
	R2404693-011 50X	Mo (202.032 nm)	0.0004	11.19	16.2759
	R2404693-011 50X	Na (588.995 nm)	5.3972	0.15	59878.6913
	R2404693-011 50X	Ni (230.299 nm)	0.0006 u	> 100.00	32.2136
	R2404693-011 50X	Pb (220.353 nm)	0.0003 u	> 100.00	9.6841
	R2404693-011 50X	Sb (217.582 nm)	0.0003 u	> 100.00	7.1320
	R2404693-011 50X	Se (196.026 nm)	0.0011 u	> 100.00	5.5738
	R2404693-011 50X	Si (252.851 nm)	0.1529	1.41	615.2549
	R2404693-011 50X	Sn (189.925 nm)	-0.0002 u	> 100.00	2.4043
	R2404693-011 50X	Sr (216.596 nm)	0.1704	0.26	2998.4505
	R2404693-011 50X	Ti (336.122 nm)	0.0003	75.59	203.5622
	R2404693-011 50X	Tl (190.794 nm)	0.0009 u	> 100.00	-0.3584
	R2404693-011 50X	V (292.401 nm)	-0.0001 u	> 100.00	-44.1105
	R2404693-011 50X	Y (360.074 nm)	1.01	0.33	493497.91
	R2404693-011 50X	Y_R (360.074 nm)	1.01	0.33	492501.70
	R2404693-011 50X	Zn (213.857 nm)	0.0000 u	> 100.00	-0.1435
6/10/2024 18:46:20	Continuing Calibration Verification	Ag (328.068 nm)	0.5042	0.15	28349.3391
	Continuing Calibration Verification	Al (237.312 nm)	9.8041	0.07	24247.5743
	Continuing Calibration Verification	As (188.980 nm)	0.9705	0.23	1643.7857
	Continuing Calibration Verification	B (249.772 nm)	2.4338	0.18	79033.8417
	Continuing Calibration Verification	Ba (230.424 nm)	9.6445	0.06	525121.2493
	Continuing Calibration Verification	Be (313.107 nm)	0.2422	0.33	265865.9245
	Continuing Calibration Verification	Ca (317.933 nm)	25.5493	0.36	912820.0215
	Continuing Calibration Verification	Cd (214.439 nm)	0.4984	0.42	28395.9216
	Continuing Calibration Verification	Co (230.786 nm)	2.4746	0.24	44862.8050
	Continuing Calibration Verification	Cr (267.716 nm)	0.5124	0.27	26639.7331
	Continuing Calibration Verification	Cu (327.395 nm)	1.2241	0.25	53705.5099
	Continuing Calibration Verification	Fe (234.350 nm)	4.9897	0.29	90852.8431
	Continuing Calibration Verification	K (766.491 nm)	24.0460	0.33	26195.9821

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	Mg (279.078 nm)	25.1427	0.34	82134.4833
	Continuing Calibration Verification	Mn (257.610 nm)	0.7371	0.30	246191.0603
	Continuing Calibration Verification	Mo (202.032 nm)	2.6118	0.39	27276.1931
	Continuing Calibration Verification	Na (588.995 nm)	25.2992	0.41	330911.9041
	Continuing Calibration Verification	Ni (230.299 nm)	2.0487	0.25	24082.3553
	Continuing Calibration Verification	Pb (220.353 nm)	0.5088	0.23	2664.3440
	Continuing Calibration Verification	Sb (217.582 nm)	4.7940	0.19	8911.7725
	Continuing Calibration Verification	Se (196.026 nm)	0.4775	0.55	352.8030
	Continuing Calibration Verification	Si (252.851 nm)	9.9930	0.37	38109.5800
	Continuing Calibration Verification	Sn (189.925 nm)	4.9745	0.27	12252.1082
	Continuing Calibration Verification	Sr (216.596 nm)	2.4330	0.34	42819.2999
	Continuing Calibration Verification	Ti (336.122 nm)	2.5179	0.16	363933.5421
	Continuing Calibration Verification	Tl (190.794 nm)	0.9749	0.06	951.4211
	Continuing Calibration Verification	V (292.401 nm)	2.4992	0.30	94710.5784
	Continuing Calibration Verification	Y (360.074 nm)	0.97	0.43	475221.11
	Continuing Calibration Verification	Y_R (360.074 nm)	0.97	0.43	474258.23
	Continuing Calibration Verification	Zn (213.857 nm)	0.9821	0.26	62861.7373
6/10/2024 18:49:34	Continuing Calibration Blank	Ag (328.068 nm)	-0.0002 u	36.87	-224.9371
	Continuing Calibration Blank	Al (237.312 nm)	0.0041	40.59	22.4691
	Continuing Calibration Blank	As (188.980 nm)	-0.0003 u	> 100.00	-2.5849
	Continuing Calibration Blank	B (249.772 nm)	0.0018	19.96	63.6873
	Continuing Calibration Blank	Ba (230.424 nm)	0.0006	6.78	45.1084
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	34.99	53.0137
	Continuing Calibration Blank	Ca (317.933 nm)	0.0079	1.14	3025.4698
	Continuing Calibration Blank	Cd (214.439 nm)	0.0001	42.72	9.2115
	Continuing Calibration Blank	Co (230.786 nm)	0.0000 u	> 100.00	-9.9258
	Continuing Calibration Blank	Cr (267.716 nm)	0.0002	> 100.00	13.8996
	Continuing Calibration Blank	Cu (327.395 nm)	0.0002	45.90	-16.9273
	Continuing Calibration Blank	Fe (234.350 nm)	0.0023	29.69	41.0475
	Continuing Calibration Blank	K (766.491 nm)	0.0557	7.24	-130.9054
	Continuing Calibration Blank	Mg (279.078 nm)	0.0035	16.13	-18.4905
	Continuing Calibration Blank	Mn (257.610 nm)	0.0001	31.54	43.7649
	Continuing Calibration Blank	Mo (202.032 nm)	0.0035	37.53	48.6117
	Continuing Calibration Blank	Na (588.995 nm)	0.0390	11.32	-13091.4258
	Continuing Calibration Blank	Ni (230.299 nm)	-0.0001 u	> 100.00	24.0495
	Continuing Calibration Blank	Pb (220.353 nm)	0.0002	79.06	8.8100
	Continuing Calibration Blank	Sb (217.582 nm)	0.0035	54.27	13.0802
	Continuing Calibration Blank	Se (196.026 nm)	0.0006 u	> 100.00	5.2244
	Continuing Calibration Blank	Si (252.851 nm)	0.0002 u	> 100.00	33.5842
	Continuing Calibration Blank	Sn (189.925 nm)	0.0011	60.87	5.6579
	Continuing Calibration Blank	Sr (216.596 nm)	0.0003	39.46	5.2887
	Continuing Calibration Blank	Ti (336.122 nm)	0.0026	42.90	530.9828
	Continuing Calibration Blank	Tl (190.794 nm)	0.0009 u	> 100.00	-0.3650
	Continuing Calibration Blank	V (292.401 nm)	0.0002	87.30	-33.6917
	Continuing Calibration Blank	Y (360.074 nm)	1.01	0.18	495047.07
	Continuing Calibration Blank	Y_R (360.074 nm)	1.01	0.18	494071.89
	Continuing Calibration Blank	Zn (213.857 nm)	0.0010	5.21	65.5935
6/10/2024 18:52:47	Contract Required Detection Limit	Ag (328.068 nm)	0.0086	1.52	272.9109
	Contract Required Detection Limit	Al (237.312 nm)	0.1963	0.59	497.4598
	Contract Required Detection Limit	As (188.980 nm)	0.0179	2.92	28.3853
	Contract Required Detection Limit	B (249.772 nm)	0.1919	0.15	6236.9924
	Contract Required Detection Limit	Ba (230.424 nm)	0.1947	0.26	10611.5255
	Contract Required Detection Limit	Be (313.107 nm)	0.0049	0.39	5421.4102
	Contract Required Detection Limit	Ca (317.933 nm)	1.0417	0.27	39849.5218
	Contract Required Detection Limit	Cd (214.439 nm)	0.0105	0.95	600.8929
	Contract Required Detection Limit	Co (230.786 nm)	0.0500	0.54	897.1176
	Contract Required Detection Limit	Cr (267.716 nm)	0.0096	1.18	505.1797

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Contract Required Detection Limit	Cu (327.395 nm)	0.0245	0.75	1048.5992
	Contract Required Detection Limit	Fe (234.350 nm)	0.1060	0.92	1928.9703
	Contract Required Detection Limit	K (766.491 nm)	0.9624	5.56	864.1420
	Contract Required Detection Limit	Mg (279.078 nm)	1.0073	0.23	3261.9116
	Contract Required Detection Limit	Mn (257.610 nm)	0.0140	0.41	4678.7197
	Contract Required Detection Limit	Mo (202.032 nm)	0.0261	0.92	284.0450
	Contract Required Detection Limit	Na (588.995 nm)	1.0335	0.57	451.6424
	Contract Required Detection Limit	Ni (230.299 nm)	0.0361	1.38	449.7351
	Contract Required Detection Limit	Pb (220.353 nm)	0.0111	10.04	65.7872
	Contract Required Detection Limit	Sb (217.582 nm)	0.0608	1.93	119.6021
	Contract Required Detection Limit	Se (196.026 nm)	0.0094	21.04	11.6443
	Contract Required Detection Limit	Si (252.851 nm)	0.0544	1.32	239.8808
	Contract Required Detection Limit	Sn (189.925 nm)	0.5001	0.29	1234.5200
	Contract Required Detection Limit	Sr (216.596 nm)	0.0985	0.39	1732.2655
	Contract Required Detection Limit	Ti (336.122 nm)	0.0499	1.11	7362.2643
	Contract Required Detection Limit	Tl (190.794 nm)	0.0221	8.77	20.3547
	Contract Required Detection Limit	V (292.401 nm)	0.0494	0.62	1831.2096
	Contract Required Detection Limit	Y (360.074 nm)	1.01	0.51	493723.62
	Contract Required Detection Limit	Y_R (360.074 nm)	1.01	0.51	492637.06
	Contract Required Detection Limit	Zn (213.857 nm)	0.0174	0.52	1114.4796
6/10/2024 18:56:01	Interference Check Solution A	Ag (328.068 nm)	-0.0003 u	26.62	-231.4626
	Interference Check Solution A	Al (237.312 nm)	251.4539 o	0.16	621596.4842
	Interference Check Solution A	As (188.980 nm)	0.0015 u	> 100.00	0.4893
	Interference Check Solution A	B (249.772 nm)	0.0935	0.22	3042.6702
	Interference Check Solution A	Ba (230.424 nm)	-0.0005 u	26.53	-16.6486
	Interference Check Solution A	Be (313.107 nm)	0.0002	1.48	237.3497
	Interference Check Solution A	Ca (317.933 nm)	237.7505 o	0.37	8471519.4695
	Interference Check Solution A	Cd (214.439 nm)	-0.0008 u	13.35	-41.8141
	Interference Check Solution A	Co (230.786 nm)	-0.0004 u	54.23	-16.7571
	Interference Check Solution A	Cr (267.716 nm)	0.0036	4.54	194.0206
	Interference Check Solution A	Cu (327.395 nm)	0.0086	2.02	349.7686
	Interference Check Solution A	Fe (234.350 nm)	93.8609 o	0.35	1709024.8100
	Interference Check Solution A	K (766.491 nm)	0.0126	> 100.00	-178.2437
	Interference Check Solution A	Mg (279.078 nm)	262.0895 o	0.34	856456.0798
	Interference Check Solution A	Mn (257.610 nm)	0.0011	1.70	399.0437
	Interference Check Solution A	Mo (202.032 nm)	0.0012	33.45	24.4377
	Interference Check Solution A	Na (588.995 nm)	-0.0392 u	9.66	-14156.1347
	Interference Check Solution A	Ni (230.299 nm)	0.0032	8.15	63.2319
	Interference Check Solution A	Pb (220.353 nm)	0.0035	17.60	26.1075
	Interference Check Solution A	Sb (217.582 nm)	-0.0005 u	> 100.00	5.6970
	Interference Check Solution A	Se (196.026 nm)	-0.0025 u	> 100.00	2.9236
	Interference Check Solution A	Si (252.851 nm)	0.0454	3.72	205.7032
	Interference Check Solution A	Sn (189.925 nm)	0.0018	50.95	7.5015
	Interference Check Solution A	Sr (216.596 nm)	0.0114	2.47	200.6220
	Interference Check Solution A	Ti (336.122 nm)	0.0026	12.89	537.4264
	Interference Check Solution A	Tl (190.794 nm)	0.0021	12.17	0.8028
	Interference Check Solution A	V (292.401 nm)	0.0016	11.75	19.7521
	Interference Check Solution A	Y (360.074 nm)	0.89	0.47	435183.47
	Interference Check Solution A	Y_R (360.074 nm)	0.89	0.48	434212.53
	Interference Check Solution A	Zn (213.857 nm)	0.0134 K	0.44	861.0878 K
6/10/2024 18:59:15	Interference Check Solution AB	Ag (328.068 nm)	0.2005	0.09	11145.6167
	Interference Check Solution AB	Al (237.312 nm)	253.1771 o	0.15	625856.1909
	Interference Check Solution AB	As (188.980 nm)	0.0991	3.60	166.0573
	Interference Check Solution AB	B (249.772 nm)	0.0898	0.20	2921.7580
	Interference Check Solution AB	Ba (230.424 nm)	0.5038	0.14	27439.2817
	Interference Check Solution AB	Be (313.107 nm)	0.5072	0.30	556694.8978
	Interference Check Solution AB	Ca (317.933 nm)	238.9601 o	0.38	8514606.0133

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Interference Check Solution AB	Cd (214.439 nm)	0.9860	0.33	56175.5292
	Interference Check Solution AB	Co (230.786 nm)	0.4891	0.30	8859.1078
	Interference Check Solution AB	Cr (267.716 nm)	0.5219	0.30	27132.9711
	Interference Check Solution AB	Cu (327.395 nm)	0.5469	0.12	23981.0422
	Interference Check Solution AB	Fe (234.350 nm)	94.5566 o	0.30	1721691.8895
	Interference Check Solution AB	K (766.491 nm)	-0.0523 u	32.53	-249.4275
	Interference Check Solution AB	Mg (279.078 nm)	263.7808 o	0.34	861982.8592
	Interference Check Solution AB	Mn (257.610 nm)	0.4998	0.26	166915.8688
	Interference Check Solution AB	Mo (202.032 nm)	0.0009	26.48	21.3979
	Interference Check Solution AB	Na (588.995 nm)	-0.0485 u	9.15	-14283.1933
	Interference Check Solution AB	Ni (230.299 nm)	0.9959	0.13	11719.8665
	Interference Check Solution AB	Pb (220.353 nm)	0.0515	2.31	276.8776
	Interference Check Solution AB	Sb (217.582 nm)	0.6087	0.94	1137.3313
	Interference Check Solution AB	Se (196.026 nm)	0.0435	9.43	36.5130
	Interference Check Solution AB	Si (252.851 nm)	0.0957	1.80	397.3868
	Interference Check Solution AB	Sn (189.925 nm)	0.0020	22.92	7.8236
	Interference Check Solution AB	Sr (216.596 nm)	0.0113	0.16	198.5867
	Interference Check Solution AB	Ti (336.122 nm)	0.0025	10.96	522.3898
	Interference Check Solution AB	Tl (190.794 nm)	0.0984	1.55	94.9478
	Interference Check Solution AB	V (292.401 nm)	0.5224	0.18	19763.2504
	Interference Check Solution AB	Y (360.074 nm)	0.89	0.32	435840.75
	Interference Check Solution AB	Y_R (360.074 nm)	0.89	0.32	434977.32
	Interference Check Solution AB	Zn (213.857 nm)	1.0376	0.21	66414.4006
6/10/2024 19:02:29	HLCCV2	Ag (328.068 nm)	2.1606 o	0.09	122185.6129
	HLCCV2	Al (237.312 nm)	512.0047 o	0.19	1265667.9748
	HLCCV2	As (188.980 nm)	4.1462 o	0.12	7029.5070
	HLCCV2	B (249.772 nm)	10.5892	0.16	343851.3092
	HLCCV2	Ba (230.424 nm)	36.8119 o	0.31	2004300.6744
	HLCCV2	Be (313.107 nm)	1.0183 o	0.25	1117682.6045
	HLCCV2	Ca (317.933 nm)	236.1833 o	0.33	8415692.4356
	HLCCV2	Cd (214.439 nm)	1.9084 o	0.34	108726.0250
	HLCCV2	Co (230.786 nm)	9.3587 o	0.23	169696.7914
	HLCCV2	Cr (267.716 nm)	10.0511 o	0.33	522472.8422
	HLCCV2	Cu (327.395 nm)	5.3917 o	0.09	236655.5274
	HLCCV2	Fe (234.350 nm)	47.7280 o	0.31	869033.8658
	HLCCV2	K (766.491 nm)	169.0364 Qo	0.22	185308.1332 Q
	HLCCV2	Mg (279.078 nm)	517.2142 o	0.32	1690181.4227
	HLCCV2	Mn (257.610 nm)	9.5856 o	0.38	3201156.3039
	HLCCV2	Mo (202.032 nm)	10.2680 o	0.30	107196.4646
	HLCCV2	Na (588.995 nm)	214.3181 o	0.24	2905043.9939
	HLCCV2	Ni (230.299 nm)	7.4546 o	0.22	87563.4679
	HLCCV2	Pb (220.353 nm)	9.7642 o	0.35	50984.4605
	HLCCV2	Sb (217.582 nm)	0.0165	5.09	37.1466
	HLCCV2	Se (196.026 nm)	2.0475 o	0.70	1497.2196
	HLCCV2	Si (252.851 nm)	-3.0464 Qu	0.44	-11575.3345 Q
	HLCCV2	Sn (189.925 nm)	-0.0089 u	12.46	-18.9895
	HLCCV2	Sr (216.596 nm)	9.6931 o	0.36	170592.8171
	HLCCV2	Ti (336.122 nm)	10.1187 o	0.18	1462071.0040
	HLCCV2	Tl (190.794 nm)	3.6749 o	0.21	3589.8014
	HLCCV2	V (292.401 nm)	10.0634 o	0.27	381485.6246
	HLCCV2	Y (360.074 nm)	0.85	0.35	412888.19
	HLCCV2	Y_R (360.074 nm)	0.84	0.35	412030.73
	HLCCV2	Zn (213.857 nm)	4.1471 o	0.22	265448.1897
6/10/2024 19:05:44	HLCCV3	Ag (328.068 nm)	-0.0003 u	36.61	-232.1449
	HLCCV3	Al (237.312 nm)	0.0235	5.18	70.4120
	HLCCV3	As (188.980 nm)	0.0030	67.32	2.9978
	HLCCV3	B (249.772 nm)	0.0429	2.70	1399.5712

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	HLCCV3	Ba (230.424 nm)	0.0008	15.19	57.4693
	HLCCV3	Be (313.107 nm)	0.0001	20.50	75.9991
	HLCCV3	Ca (317.933 nm)	187.7671 o	0.23	6691089.3582
	HLCCV3	Cd (214.439 nm)	0.0007	12.18	44.3321
	HLCCV3	Co (230.786 nm)	-0.0007 u	34.79	-21.5271
	HLCCV3	Cr (267.716 nm)	0.0007	9.56	42.4639
	HLCCV3	Cu (327.395 nm)	4.1124 o	0.14	180498.3274
	HLCCV3	Fe (234.350 nm)	38.0967 o	0.22	693666.5644
	HLCCV3	K (766.491 nm)	107.6593 o	0.18	117953.0741
	HLCCV3	Mg (279.078 nm)	412.1434 o	0.23	1346819.0161
	HLCCV3	Mn (257.610 nm)	0.0114	0.24	3819.1152
	HLCCV3	Mo (202.032 nm)	0.0082	33.07	97.7831
	HLCCV3	Na (588.995 nm)	155.4270 o	0.37	2103041.5819
	HLCCV3	Ni (230.299 nm)	-0.0209 u	1.80	-220.4438
	HLCCV3	Pb (220.353 nm)	0.0032	0.36	24.6097
	HLCCV3	Sb (217.582 nm)	-0.0011 u	95.16	4.4704
	HLCCV3	Se (196.026 nm)	-0.0021 u	> 100.00	3.2574
	HLCCV3	Si (252.851 nm)	0.0039 S	10.62	47.5613 S
	HLCCV3	Sn (189.925 nm)	0.0010	36.36	5.5775
	HLCCV3	Sr (216.596 nm)	0.0078	5.68	136.6736
	HLCCV3	Ti (336.122 nm)	0.0184	11.16	2814.3857
	HLCCV3	Tl (190.794 nm)	2.7856 o	0.14	2720.7648
	HLCCV3	V (292.401 nm)	0.0008	26.79	-9.5142
	HLCCV3	Y (360.074 nm)	0.88	0.34	431823.40
	HLCCV3	Y_R (360.074 nm)	0.88	0.34	430898.23
	HLCCV3	Zn (213.857 nm)	0.0070	0.81	446.2876
6/10/2024 19:08:59	HLCCV1	Ag (328.068 nm)	0.9906	0.13	55902.5320
	HLCCV1	Al (237.312 nm)	19.6418	0.06	48565.9543
	HLCCV1	As (188.980 nm)	1.9690	0.18	3337.2604
	HLCCV1	B (249.772 nm)	9.8093	0.20	318524.8921
	HLCCV1	Ba (230.424 nm)	18.7514	0.31	1020966.1548
	HLCCV1	Be (313.107 nm)	0.4937	0.23	541941.6921
	HLCCV1	Ca (317.933 nm)	49.5386	0.28	1767330.9917
	HLCCV1	Cd (214.439 nm)	0.9855	0.32	56144.7696
	HLCCV1	Co (230.786 nm)	4.8379	0.21	87718.1042
	HLCCV1	Cr (267.716 nm)	0.9913	0.23	51535.3078
	HLCCV1	Cu (327.395 nm)	2.4710	0.04	108443.7451
	HLCCV1	Fe (234.350 nm)	9.8949	0.20	180166.5587
	HLCCV1	K (766.491 nm)	50.2627	0.30	54966.1867
	HLCCV1	Mg (279.078 nm)	49.4745	0.19	161648.6765
	HLCCV1	Mn (257.610 nm)	1.4839	0.23	495578.6089
	HLCCV1	Mo (202.032 nm)	5.0827	0.32	53068.6793
	HLCCV1	Na (588.995 nm)	49.9388	0.35	666462.7824
	HLCCV1	Ni (230.299 nm)	3.9131	0.21	45975.5705
	HLCCV1	Pb (220.353 nm)	0.9951	0.18	5203.2473
	HLCCV1	Sb (217.582 nm)	9.5904	0.10	17821.4742
	HLCCV1	Se (196.026 nm)	0.9747	0.76	715.2696
	HLCCV1	Si (252.851 nm)	49.0149	0.76	186796.9703
	HLCCV1	Sn (189.925 nm)	9.6892	0.17	23861.6254
	HLCCV1	Sr (216.596 nm)	4.8595	0.41	85524.1600
	HLCCV1	Ti (336.122 nm)	4.9209	0.08	711117.7656
	HLCCV1	Tl (190.794 nm)	1.9300	0.16	1884.7504
	HLCCV1	V (292.401 nm)	4.9436	0.25	187381.9482
	HLCCV1	Y (360.074 nm)	0.96	0.40	468026.01
	HLCCV1	Y_R (360.074 nm)	0.96	0.41	467049.76
	HLCCV1	Zn (213.857 nm)	1.9895	0.16	127345.4639
6/10/2024 19:12:14	Continuing Calibration Verification	Ag (328.068 nm)	0.5032	0.11	28294.8889

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	Al (237.312 nm)	9.8198	0.10	24286.5222
	Continuing Calibration Verification	As (188.980 nm)	0.9686	0.47	1640.6366
	Continuing Calibration Verification	B (249.772 nm)	2.4380	0.05	79168.7835
	Continuing Calibration Verification	Ba (230.424 nm)	9.5986	0.28	522624.6722
	Continuing Calibration Verification	Be (313.107 nm)	0.2421	0.28	265713.5531
	Continuing Calibration Verification	Ca (317.933 nm)	25.5596	0.30	913185.9321
	Continuing Calibration Verification	Cd (214.439 nm)	0.4986	0.35	28408.0452
	Continuing Calibration Verification	Co (230.786 nm)	2.4784	0.26	44931.7359
	Continuing Calibration Verification	Cr (267.716 nm)	0.5120	0.26	26617.8636
	Continuing Calibration Verification	Cu (327.395 nm)	1.2165	0.21	53375.4670
	Continuing Calibration Verification	Fe (234.350 nm)	5.0011	0.24	91059.9987
	Continuing Calibration Verification	K (766.491 nm)	24.2148	0.55	26381.2880
	Continuing Calibration Verification	Mg (279.078 nm)	25.1749	0.22	82239.5465
	Continuing Calibration Verification	Mn (257.610 nm)	0.7376	0.20	246350.0593
	Continuing Calibration Verification	Mo (202.032 nm)	2.6197	0.26	27357.8602
	Continuing Calibration Verification	Na (588.995 nm)	25.2800	0.33	330649.6898
	Continuing Calibration Verification	Ni (230.299 nm)	2.0475	0.20	24068.1014
	Continuing Calibration Verification	Pb (220.353 nm)	0.5086	0.05	2663.1152
	Continuing Calibration Verification	Sb (217.582 nm)	4.7846	0.25	8894.4353
	Continuing Calibration Verification	Se (196.026 nm)	0.4736	1.04	350.0135
	Continuing Calibration Verification	Si (252.851 nm)	10.0854	0.16	38461.6350
	Continuing Calibration Verification	Sn (189.925 nm)	4.9619	0.22	12221.0666
	Continuing Calibration Verification	Sr (216.596 nm)	2.4325	0.19	42810.1921
	Continuing Calibration Verification	Ti (336.122 nm)	2.5210	0.17	364388.6722
	Continuing Calibration Verification	Tl (190.794 nm)	0.9756	0.23	952.0843
	Continuing Calibration Verification	V (292.401 nm)	2.4980	0.14	94662.5773
	Continuing Calibration Verification	Y (360.074 nm)	0.98	0.34	477778.13
	Continuing Calibration Verification	Y_R (360.074 nm)	0.98	0.34	476802.74
	Continuing Calibration Verification	Zn (213.857 nm)	0.9808	0.17	62781.3032
6/10/2024 19:15:27	Continuing Calibration Blank	Ag (328.068 nm)	-0.0001 u	> 100.00	-220.6622
	Continuing Calibration Blank	Al (237.312 nm)	0.0032	70.24	20.2081
	Continuing Calibration Blank	As (188.980 nm)	0.0010	57.03	-0.3938
	Continuing Calibration Blank	B (249.772 nm)	0.0044	10.62	147.7343
	Continuing Calibration Blank	Ba (230.424 nm)	0.0009	5.21	58.0659
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	9.64	64.5402
	Continuing Calibration Blank	Ca (317.933 nm)	0.0090	2.61	3062.0737
	Continuing Calibration Blank	Cd (214.439 nm)	0.0001	91.46	8.5306
	Continuing Calibration Blank	Co (230.786 nm)	0.0001	42.50	-7.6779
	Continuing Calibration Blank	Cr (267.716 nm)	0.0001	37.83	10.8611
	Continuing Calibration Blank	Cu (327.395 nm)	0.0004	29.06	-12.2127
	Continuing Calibration Blank	Fe (234.350 nm)	0.0029	27.85	51.7577
	Continuing Calibration Blank	K (766.491 nm)	0.1291	30.80	-50.3537
	Continuing Calibration Blank	Mg (279.078 nm)	0.0049	15.56	-13.9018
	Continuing Calibration Blank	Mn (257.610 nm)	0.0001	8.27	52.8535
	Continuing Calibration Blank	Mo (202.032 nm)	0.0040	33.46	53.6149
	Continuing Calibration Blank	Na (588.995 nm)	0.0675	7.11	-12703.8396
	Continuing Calibration Blank	Ni (230.299 nm)	0.0004	88.72	29.8198
	Continuing Calibration Blank	Pb (220.353 nm)	0.0006	58.04	10.8610
	Continuing Calibration Blank	Sb (217.582 nm)	0.0041	42.15	14.1366
	Continuing Calibration Blank	Se (196.026 nm)	0.0006 u	> 100.00	5.2377
	Continuing Calibration Blank	Si (252.851 nm)	0.0005 u	> 100.00	34.6853
	Continuing Calibration Blank	Sn (189.925 nm)	0.0005 u	> 100.00	4.1985
	Continuing Calibration Blank	Sr (216.596 nm)	0.0004	86.19	6.0702
	Continuing Calibration Blank	Ti (336.122 nm)	0.0031	43.71	600.9972
	Continuing Calibration Blank	Tl (190.794 nm)	0.0017	81.78	0.4789
	Continuing Calibration Blank	V (292.401 nm)	0.0003	79.16	-30.8041
	Continuing Calibration Blank	Y (360.074 nm)	1.02	0.08	496317.53

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Y_R (360.074 nm)	1.02	0.08	495299.19
	Continuing Calibration Blank	Zn (213.857 nm)	0.0010	5.79	66.2143
6/10/2024 19:18:41	PBW-439599	Ag (328.068 nm)	-0.0003 u	10.33	-229.0735
	PBW-439599	Al (237.312 nm)	0.0022	73.60	17.8008
	PBW-439599	As (188.980 nm)	-0.0010 u	87.37	-3.7291
	PBW-439599	B (249.772 nm)	0.0040	3.41	135.1502
	PBW-439599	Ba (230.424 nm)	0.0001	27.61	17.9370
	PBW-439599	Be (313.107 nm)	0.0000	27.71	33.2402
	PBW-439599	Ca (317.933 nm)	0.0056	4.33	2943.2778
	PBW-439599	Cd (214.439 nm)	0.0002	52.38	11.5519
	PBW-439599	Co (230.786 nm)	0.0001	92.14	-7.2309
	PBW-439599	Cr (267.716 nm)	0.0003	16.20	20.3374
	PBW-439599	Cu (327.395 nm)	0.0002	43.30	-20.9882
	PBW-439599	Fe (234.350 nm)	0.0021	32.83	37.2952
	PBW-439599	K (766.491 nm)	0.0704	32.74	-114.7461
	PBW-439599	Mg (279.078 nm)	0.0020	45.66	-23.1587
	PBW-439599	Mn (257.610 nm)	0.0001	11.83	45.4312
	PBW-439599	Mo (202.032 nm)	0.0009	44.19	21.1212
	PBW-439599	Na (588.995 nm)	0.0620	2.91	-12778.1218
	PBW-439599	Ni (230.299 nm)	-0.0003 u	26.13	21.6203
	PBW-439599	Pb (220.353 nm)	0.0011	29.05	13.4891
	PBW-439599	Sb (217.582 nm)	0.0104	18.21	25.8186
	PBW-439599	Se (196.026 nm)	-0.0005 u	> 100.00	4.4263
	PBW-439599	Si (252.851 nm)	0.0111	16.24	74.8818
	PBW-439599	Sn (189.925 nm)	-0.0003 u	> 100.00	2.3523
	PBW-439599	Sr (216.596 nm)	0.0003	86.68	4.0322
	PBW-439599	Ti (336.122 nm)	0.0010	64.07	292.9304
	PBW-439599	Tl (190.794 nm)	0.0006 u	> 100.00	-0.6497
	PBW-439599	V (292.401 nm)	0.0002	64.34	-32.7800
	PBW-439599	Y (360.074 nm)	1.02	0.19	500171.32
	PBW-439599	Y_R (360.074 nm)	1.02	0.19	499150.09
	PBW-439599	Zn (213.857 nm)	-0.0003 u	17.61	-20.1487
6/10/2024 19:21:55	LCSW-439599	Ag (328.068 nm)	0.0494	0.16	2584.3129
	LCSW-439599	Al (237.312 nm)	1.9675	0.18	4875.7637
	LCSW-439599	As (188.980 nm)	0.0360	1.46	58.9808
	LCSW-439599	B (249.772 nm)	0.9771	0.26	31731.6487
	LCSW-439599	Ba (230.424 nm)	1.9213	0.47	104621.3208
	LCSW-439599	Be (313.107 nm)	0.0485	0.34	53246.3393
	LCSW-439599	Ca (317.933 nm)	2.0236	0.37	74826.0900
	LCSW-439599	Cd (214.439 nm)	0.0507	0.55	2889.4813
	LCSW-439599	Co (230.786 nm)	0.4940	0.33	8949.0964
	LCSW-439599	Cr (267.716 nm)	0.2013	0.31	10472.0277
	LCSW-439599	Cu (327.395 nm)	0.2482	0.14	10865.7518
	LCSW-439599	Fe (234.350 nm)	1.0081	0.34	18354.3336
	LCSW-439599	K (766.491 nm)	18.8207	0.06	20461.7425
	LCSW-439599	Mg (279.078 nm)	1.9531	0.34	6352.9414
	LCSW-439599	Mn (257.610 nm)	0.4854	0.33	162109.8288
	LCSW-439599	Mo (202.032 nm)	0.5041	0.55	5274.6328
	LCSW-439599	Na (588.995 nm)	19.7930	0.16	255925.3994
	LCSW-439599	Ni (230.299 nm)	0.5123	0.38	6041.5614
	LCSW-439599	Pb (220.353 nm)	0.5188	0.43	2716.2695
	LCSW-439599	Sb (217.582 nm)	0.4839	0.31	905.5541
	LCSW-439599	Se (196.026 nm)	0.9874	0.25	724.5063
	LCSW-439599	Si (252.851 nm)	-0.0115 u	4.86	-11.1866
	LCSW-439599	Sn (189.925 nm)	4.9340	0.24	12152.4586
	LCSW-439599	Sr (216.596 nm)	1.9631	0.43	34549.3222
	LCSW-439599	Ti (336.122 nm)	0.4923	0.13	71284.4195

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	LCSW-439599	Tl (190.794 nm)	1.9337	0.37	1888.3417
	LCSW-439599	V (292.401 nm)	0.4874	0.27	18439.5574
	LCSW-439599	Y (360.074 nm)	1.00	0.16	489494.09
	LCSW-439599	Y_R (360.074 nm)	1.00	0.16	488468.98
	LCSW-439599	Zn (213.857 nm)	0.5007	0.26	32047.9325
6/10/2024 19:25:09	DLCSW-439599	Ag (328.068 nm)	0.0492	0.42	2571.3428
	DLCSW-439599	Al (237.312 nm)	1.9507	0.03	4834.4465
	DLCSW-439599	As (188.980 nm)	0.0363	2.24	59.5006
	DLCSW-439599	B (249.772 nm)	0.9703	0.12	31512.9459
	DLCSW-439599	Ba (230.424 nm)	1.9006	0.08	103493.7461
	DLCSW-439599	Be (313.107 nm)	0.0481	0.25	52794.8428
	DLCSW-439599	Ca (317.933 nm)	2.0026	0.33	74075.6204
	DLCSW-439599	Cd (214.439 nm)	0.0502	0.13	2863.1917
	DLCSW-439599	Co (230.786 nm)	0.4896	0.41	8868.2763
	DLCSW-439599	Cr (267.716 nm)	0.1994	0.31	10373.0488
	DLCSW-439599	Cu (327.395 nm)	0.2465	0.12	10794.8401
	DLCSW-439599	Fe (234.350 nm)	0.9980	0.24	18171.1370
	DLCSW-439599	K (766.491 nm)	18.7436	0.18	20377.1655
	DLCSW-439599	Mg (279.078 nm)	1.9368	0.18	6299.5790
	DLCSW-439599	Mn (257.610 nm)	0.4811	0.33	160676.7711
	DLCSW-439599	Mo (202.032 nm)	0.5015	0.42	5247.2306
	DLCSW-439599	Na (588.995 nm)	19.6855	0.19	254461.3884
	DLCSW-439599	Ni (230.299 nm)	0.5073	0.42	5982.4371
	DLCSW-439599	Pb (220.353 nm)	0.5148	0.40	2695.6442
	DLCSW-439599	Sb (217.582 nm)	0.4767	0.31	892.1671
	DLCSW-439599	Se (196.026 nm)	0.9799	0.52	719.0444
	DLCSW-439599	Si (252.851 nm)	-0.0135 u	8.29	-18.8049
	DLCSW-439599	Sn (189.925 nm)	4.8984	0.34	12064.6363
	DLCSW-439599	Sr (216.596 nm)	1.9466	0.40	34258.7961
	DLCSW-439599	Ti (336.122 nm)	0.4882	0.20	70683.2867
	DLCSW-439599	Tl (190.794 nm)	1.9150	0.49	1870.0412
	DLCSW-439599	V (292.401 nm)	0.4831	0.26	18274.9940
	DLCSW-439599	Y (360.074 nm)	1.00	0.17	490485.22
	DLCSW-439599	Y_R (360.074 nm)	1.00	0.17	489457.51
	DLCSW-439599	Zn (213.857 nm)	0.4965	0.26	31778.7140
6/10/2024 19:28:23	R2404631-005 50X	Ag (328.068 nm)	-0.0003 u	27.72	-230.5591
	R2404631-005 50X	Al (237.312 nm)	0.0039	43.85	21.9173
	R2404631-005 50X	As (188.980 nm)	-0.0008 u	> 100.00	-3.3200
	R2404631-005 50X	B (249.772 nm)	0.0036	4.79	122.3843
	R2404631-005 50X	Ba (230.424 nm)	0.0008	8.81	54.9142
	R2404631-005 50X	Be (313.107 nm)	0.0000	69.94	35.6312
	R2404631-005 50X	Ca (317.933 nm)	0.0810	0.71	5629.2150
	R2404631-005 50X	Cd (214.439 nm)	0.0001	65.34	6.6926
	R2404631-005 50X	Co (230.786 nm)	0.0007	22.25	3.7679
	R2404631-005 50X	Cr (267.716 nm)	0.0000 u	> 100.00	5.2443
	R2404631-005 50X	Cu (327.395 nm)	0.0001	> 100.00	-24.0769
	R2404631-005 50X	Fe (234.350 nm)	0.0325	1.38	591.1602
	R2404631-005 50X	K (766.491 nm)	0.1131	14.84	-67.8828
	R2404631-005 50X	Mg (279.078 nm)	0.0167	2.87	24.7969
	R2404631-005 50X	Mn (257.610 nm)	0.0053	0.61	1803.3703
	R2404631-005 50X	Mo (202.032 nm)	0.0022	34.68	34.6078
	R2404631-005 50X	Na (588.995 nm)	18.6427	0.19	240260.9904
	R2404631-005 50X	Ni (230.299 nm)	0.0131	4.89	179.1911
	R2404631-005 50X	Pb (220.353 nm)	0.0007	39.11	11.6366
	R2404631-005 50X	Sb (217.582 nm)	0.0007 u	> 100.00	7.9793
	R2404631-005 50X	Se (196.026 nm)	0.0015 u	> 100.00	5.8947
	R2404631-005 50X	Si (252.851 nm)	0.1053	1.25	433.9270

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404631-005 50X	Sn (189.925 nm)	0.0009 u	> 100.00	5.1826
	R2404631-005 50X	Sr (216.596 nm)	0.0007	23.27	11.3002
	R2404631-005 50X	Ti (336.122 nm)	0.0009	51.17	289.7528
	R2404631-005 50X	Tl (190.794 nm)	0.0013	68.99	0.0932
	R2404631-005 50X	V (292.401 nm)	-0.0001 u	> 100.00	-43.6834
	R2404631-005 50X	Y (360.074 nm)	1.01	0.16	492528.97
	R2404631-005 50X	Y_R (360.074 nm)	1.01	0.16	491520.97
	R2404631-005 50X	Zn (213.857 nm)	0.0002	27.49	13.6699
6/10/2024 19:31:38	R2404631-006 10X	Ag (328.068 nm)	-0.0003 u	58.26	-230.9958
	R2404631-006 10X	Al (237.312 nm)	0.0519	4.58	140.4806
	R2404631-006 10X	As (188.980 nm)	-0.0019 u	75.65	-5.3013
	R2404631-006 10X	B (249.772 nm)	0.0424	0.58	1383.6002
	R2404631-006 10X	Ba (230.424 nm)	0.0022	4.03	132.7743
	R2404631-006 10X	Be (313.107 nm)	0.0001	11.03	94.3317
	R2404631-006 10X	Ca (317.933 nm)	4.0063	0.25	145448.4766
	R2404631-006 10X	Cd (214.439 nm)	0.0002	15.31	14.1582
	R2404631-006 10X	Co (230.786 nm)	0.0001 u	99.44	-8.1689
	R2404631-006 10X	Cr (267.716 nm)	0.0001	84.82	10.9980
	R2404631-006 10X	Cu (327.395 nm)	0.0004	81.34	-12.2047
	R2404631-006 10X	Fe (234.350 nm)	0.0028	15.94	50.4596
	R2404631-006 10X	K (766.491 nm)	0.1397	14.08	-38.7557
	R2404631-006 10X	Mg (279.078 nm)	0.2138	0.19	668.9293
	R2404631-006 10X	Mn (257.610 nm)	0.1059	0.27	35399.6332
	R2404631-006 10X	Mo (202.032 nm)	0.0008	67.68	19.9607
	R2404631-006 10X	Na (588.995 nm)	9.1126	0.08	110476.3880
	R2404631-006 10X	Ni (230.299 nm)	0.0018	12.81	46.7196
	R2404631-006 10X	Pb (220.353 nm)	0.0008	47.45	12.1736
	R2404631-006 10X	Sb (217.582 nm)	0.0002 u	> 100.00	6.9758
	R2404631-006 10X	Se (196.026 nm)	0.0032 u	> 100.00	7.1005
	R2404631-006 10X	Si (252.851 nm)	0.4290	0.07	1667.1315
	R2404631-006 10X	Sn (189.925 nm)	0.0003 u	> 100.00	3.6869
	R2404631-006 10X	Sr (216.596 nm)	0.0091	3.60	159.7685
	R2404631-006 10X	Ti (336.122 nm)	0.0004	60.95	216.8562
	R2404631-006 10X	Tl (190.794 nm)	0.0022	60.75	0.9694
	R2404631-006 10X	V (292.401 nm)	0.0001 u	> 100.00	-38.0635
	R2404631-006 10X	Y (360.074 nm)	1.02	0.30	496293.16
	R2404631-006 10X	Y_R (360.074 nm)	1.02	0.30	495273.95
	R2404631-006 10X	Zn (213.857 nm)	0.0015	3.96	98.3445
6/10/2024 19:34:52	R2404631-007 20X	Ag (328.068 nm)	-0.0001 u	23.29	-222.8361
	R2404631-007 20X	Al (237.312 nm)	0.0037	81.69	21.4322
	R2404631-007 20X	As (188.980 nm)	0.0002 u	> 100.00	-1.6468
	R2404631-007 20X	B (249.772 nm)	0.0012	5.46	45.1648
	R2404631-007 20X	Ba (230.424 nm)	0.0012	5.02	78.4242
	R2404631-007 20X	Be (313.107 nm)	0.0000 u	> 100.00	22.7576
	R2404631-007 20X	Ca (317.933 nm)	0.1677	0.26	8716.0004
	R2404631-007 20X	Cd (214.439 nm)	0.0001 u	> 100.00	6.4206
	R2404631-007 20X	Co (230.786 nm)	0.0014	5.13	16.1160
	R2404631-007 20X	Cr (267.716 nm)	0.0001	83.67	10.8871
	R2404631-007 20X	Cu (327.395 nm)	0.0005	31.37	-7.8543
	R2404631-007 20X	Fe (234.350 nm)	0.0090	0.73	163.4605
	R2404631-007 20X	K (766.491 nm)	0.1089	13.27	-72.5659
	R2404631-007 20X	Mg (279.078 nm)	0.0434	3.51	112.1080
	R2404631-007 20X	Mn (257.610 nm)	0.0040	0.45	1363.7971
	R2404631-007 20X	Mo (202.032 nm)	0.0004	50.18	16.1261
	R2404631-007 20X	Na (588.995 nm)	33.8384	0.29	447202.2820
	R2404631-007 20X	Ni (230.299 nm)	0.0160	1.73	212.7288
	R2404631-007 20X	Pb (220.353 nm)	0.0005 u	> 100.00	10.4061

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404631-007 20X	Sb (217.582 nm)	-0.0002 u	> 100.00	6.2615
	R2404631-007 20X	Se (196.026 nm)	0.0007 u	> 100.00	5.2589
	R2404631-007 20X	Si (252.851 nm)	0.1599	1.07	641.7721
	R2404631-007 20X	Sn (189.925 nm)	0.0003 u	> 100.00	3.7721
	R2404631-007 20X	Sr (216.596 nm)	0.0011	16.47	19.1343
	R2404631-007 20X	Ti (336.122 nm)	0.0003 u	96.36	192.4271
	R2404631-007 20X	Tl (190.794 nm)	0.0001 u	> 100.00	-1.1010
	R2404631-007 20X	V (292.401 nm)	-0.0002 u	66.58	-46.3313
	R2404631-007 20X	Y (360.074 nm)	1.00	0.19	488510.15
	R2404631-007 20X	Y_R (360.074 nm)	1.00	0.19	487478.89
	R2404631-007 20X	Zn (213.857 nm)	0.0005	10.15	34.1258
6/10/2024 19:38:06	R2404631-008 50X	Ag (328.068 nm)	-0.0003 u	30.02	-232.0161
	R2404631-008 50X	Al (237.312 nm)	0.0021	95.30	17.4809
	R2404631-008 50X	As (188.980 nm)	-0.0007 u	1.88	-3.1535
	R2404631-008 50X	B (249.772 nm)	0.0065	3.96	217.6692
	R2404631-008 50X	Ba (230.424 nm)	0.0008	15.30	53.9808
	R2404631-008 50X	Be (313.107 nm)	0.0000	92.98	30.3668
	R2404631-008 50X	Ca (317.933 nm)	0.5861	0.32	23618.4024
	R2404631-008 50X	Cd (214.439 nm)	0.0001	66.52	8.4026
	R2404631-008 50X	Co (230.786 nm)	0.0002	49.67	-5.3515
	R2404631-008 50X	Cr (267.716 nm)	0.0001	> 100.00	11.1650
	R2404631-008 50X	Cu (327.395 nm)	0.0001 u	> 100.00	-25.0713
	R2404631-008 50X	Fe (234.350 nm)	0.0830	0.15	1510.8515
	R2404631-008 50X	K (766.491 nm)	0.0539	57.21	-132.8875
	R2404631-008 50X	Mg (279.078 nm)	0.1321	0.16	402.0691
	R2404631-008 50X	Mn (257.610 nm)	0.0175	0.42	5849.7495
	R2404631-008 50X	Mo (202.032 nm)	0.0002 u	> 100.00	14.5042
	R2404631-008 50X	Na (588.995 nm)	21.3035	0.08	276497.1134
	R2404631-008 50X	Ni (230.299 nm)	0.0087	1.98	127.1768
	R2404631-008 50X	Pb (220.353 nm)	0.0006	40.23	11.0818
	R2404631-008 50X	Sb (217.582 nm)	-0.0016 u	53.29	3.6611
	R2404631-008 50X	Se (196.026 nm)	0.0029 u	> 100.00	6.8982
	R2404631-008 50X	Si (252.851 nm)	0.1340	0.40	543.2500
	R2404631-008 50X	Sn (189.925 nm)	-0.0001 u	> 100.00	2.8262
	R2404631-008 50X	Sr (216.596 nm)	0.0077	3.60	134.0672
	R2404631-008 50X	Ti (336.122 nm)	0.0002	56.66	181.4615
	R2404631-008 50X	Tl (190.794 nm)	0.0016	70.08	0.3135
	R2404631-008 50X	V (292.401 nm)	-0.0001 u	> 100.00	-42.8710
	R2404631-008 50X	Y (360.074 nm)	1.00	0.18	489891.39
	R2404631-008 50X	Y_R (360.074 nm)	1.00	0.18	488868.41
	R2404631-008 50X	Zn (213.857 nm)	0.0001	47.44	6.4803
6/10/2024 19:41:20	R2404631-009 10X	Ag (328.068 nm)	-0.0004 u	9.21	-235.9254
	R2404631-009 10X	Al (237.312 nm)	0.0174	8.24	55.3279
	R2404631-009 10X	As (188.980 nm)	-0.0012 u	81.15	-3.9878
	R2404631-009 10X	B (249.772 nm)	0.0862	0.47	2804.8327
	R2404631-009 10X	Ba (230.424 nm)	0.0055	1.62	312.0345
	R2404631-009 10X	Be (313.107 nm)	0.0000	15.72	52.8299
	R2404631-009 10X	Ca (317.933 nm)	3.3469	0.37	121961.1324
	R2404631-009 10X	Cd (214.439 nm)	0.0001	52.96	8.1319
	R2404631-009 10X	Co (230.786 nm)	0.0004	34.63	-2.5502
	R2404631-009 10X	Cr (267.716 nm)	0.0000 u	> 100.00	6.6818
	R2404631-009 10X	Cu (327.395 nm)	0.0002	72.10	-17.6736
	R2404631-009 10X	Fe (234.350 nm)	0.0066	2.43	119.8922
	R2404631-009 10X	K (766.491 nm)	0.2254	3.77	55.3277
	R2404631-009 10X	Mg (279.078 nm)	0.4722	0.25	1513.4880
	R2404631-009 10X	Mn (257.610 nm)	0.0287	0.35	9616.9135
	R2404631-009 10X	Mo (202.032 nm)	0.0002	61.45	14.4941

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404631-009 10X	Na (588.995 nm)	20.6220	0.06	267215.4822
	R2404631-009 10X	Ni (230.299 nm)	0.0009	68.95	35.4459
	R2404631-009 10X	Pb (220.353 nm)	0.0008	39.07	12.2301
	R2404631-009 10X	Sb (217.582 nm)	-0.0015 u	44.54	3.7782
	R2404631-009 10X	Se (196.026 nm)	-0.0029 u	9.50	2.6950
	R2404631-009 10X	Si (252.851 nm)	0.1717	0.78	686.8646
	R2404631-009 10X	Sn (189.925 nm)	0.0000 u	> 100.00	3.0349
	R2404631-009 10X	Sr (216.596 nm)	0.0092	2.20	162.0216
	R2404631-009 10X	Ti (336.122 nm)	0.0002	> 100.00	181.7407
	R2404631-009 10X	Tl (190.794 nm)	0.0009	> 100.00	-0.3060
	R2404631-009 10X	V (292.401 nm)	-0.0002 u	> 100.00	-48.6808
	R2404631-009 10X	Y (360.074 nm)	1.00	0.19	490953.15
	R2404631-009 10X	Y_R (360.074 nm)	1.00	0.19	489922.89
	R2404631-009 10X	Zn (213.857 nm)	0.0003	26.78	16.8139
6/10/2024 19:44:34	R2404631-010 50X	Ag (328.068 nm)	-0.0004 u	40.58	-235.5325
	R2404631-010 50X	Al (237.312 nm)	0.0037	25.62	21.3684
	R2404631-010 50X	As (188.980 nm)	0.0002 u	> 100.00	-1.6801
	R2404631-010 50X	B (249.772 nm)	0.0151	0.79	496.6056
	R2404631-010 50X	Ba (230.424 nm)	0.0014	1.25	88.3554
	R2404631-010 50X	Be (313.107 nm)	0.0000 u	> 100.00	25.3239
	R2404631-010 50X	Ca (317.933 nm)	0.2616	0.37	12061.5580
	R2404631-010 50X	Cd (214.439 nm)	0.0001	31.98	5.8793
	R2404631-010 50X	Co (230.786 nm)	0.0004	6.62	-2.7086
	R2404631-010 50X	Cr (267.716 nm)	0.0000 u	> 100.00	7.9536
	R2404631-010 50X	Cu (327.395 nm)	0.0004	9.59	-8.2919
	R2404631-010 50X	Fe (234.350 nm)	0.3201	0.26	5828.0391
	R2404631-010 50X	K (766.491 nm)	0.0689	40.01	-116.4307
	R2404631-010 50X	Mg (279.078 nm)	0.1394	0.84	425.7059
	R2404631-010 50X	Mn (257.610 nm)	0.0264	0.35	8838.8454
	R2404631-010 50X	Mo (202.032 nm)	-0.0001 u	> 100.00	11.0748
	R2404631-010 50X	Na (588.995 nm)	21.8171	0.11	283490.3968
	R2404631-010 50X	Ni (230.299 nm)	0.0066	2.55	103.3044
	R2404631-010 50X	Pb (220.353 nm)	0.0002 u	> 100.00	8.7470
	R2404631-010 50X	Sb (217.582 nm)	-0.0015 u	> 100.00	3.8570
	R2404631-010 50X	Se (196.026 nm)	-0.0017 u	60.21	3.5038
	R2404631-010 50X	Si (252.851 nm)	0.1346	0.54	545.6058
	R2404631-010 50X	Sn (189.925 nm)	0.0001 u	> 100.00	3.2068
	R2404631-010 50X	Sr (216.596 nm)	0.0016	25.94	28.0097
	R2404631-010 50X	Ti (336.122 nm)	0.0001	36.40	172.4184
	R2404631-010 50X	Tl (190.794 nm)	0.0010 u	> 100.00	-0.2556
	R2404631-010 50X	V (292.401 nm)	0.0000	57.98	-39.2182
	R2404631-010 50X	Y (360.074 nm)	1.00	0.08	489405.56
	R2404631-010 50X	Y_R (360.074 nm)	1.00	0.08	488394.02
	R2404631-010 50X	Zn (213.857 nm)	0.0001	29.64	9.7119
6/10/2024 19:47:47	R2404631-011 10X	Ag (328.068 nm)	-0.0002 u	50.24	-228.5106
	R2404631-011 10X	Al (237.312 nm)	0.0035	59.28	20.8320
	R2404631-011 10X	As (188.980 nm)	-0.0008 u	> 100.00	-3.4219
	R2404631-011 10X	B (249.772 nm)	0.1263	0.40	4107.2162
	R2404631-011 10X	Ba (230.424 nm)	0.0070	0.64	392.5688
	R2404631-011 10X	Be (313.107 nm)	0.0000	53.85	29.4732
	R2404631-011 10X	Ca (317.933 nm)	0.2307	0.31	10961.2983
	R2404631-011 10X	Cd (214.439 nm)	0.0001	20.13	8.5354
	R2404631-011 10X	Co (230.786 nm)	0.0003	10.29	-4.3143
	R2404631-011 10X	Cr (267.716 nm)	-0.0001 u	> 100.00	-0.8809
	R2404631-011 10X	Cu (327.395 nm)	0.0001 u	> 100.00	-25.2171
	R2404631-011 10X	Fe (234.350 nm)	0.1254	0.57	2283.1847
	R2404631-011 10X	K (766.491 nm)	0.1346	5.83	-44.3780

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404631-011 10X	Mg (279.078 nm)	0.1151	1.49	346.4090
	R2404631-011 10X	Mn (257.610 nm)	0.3383	0.26	112986.0773
	R2404631-011 10X	Mo (202.032 nm)	0.0002	42.76	13.9046
	R2404631-011 10X	Na (588.995 nm)	16.1246	0.07	205968.8537
	R2404631-011 10X	Ni (230.299 nm)	0.0009	42.95	35.6202
	R2404631-011 10X	Pb (220.353 nm)	0.0005	34.47	10.4692
	R2404631-011 10X	Sb (217.582 nm)	-0.0013 u	> 100.00	4.0926
	R2404631-011 10X	Se (196.026 nm)	0.0005 u	> 100.00	5.1099
	R2404631-011 10X	Si (252.851 nm)	0.2504	0.68	986.6284
	R2404631-011 10X	Sn (189.925 nm)	-0.0007 u	> 100.00	1.4004
	R2404631-011 10X	Sr (216.596 nm)	0.0019	2.76	32.3127
	R2404631-011 10X	Ti (336.122 nm)	0.0001 u	> 100.00	164.0446
	R2404631-011 10X	Tl (190.794 nm)	0.0019 u	> 100.00	0.6460
	R2404631-011 10X	V (292.401 nm)	0.0000 u	> 100.00	-39.4997
	R2404631-011 10X	Y (360.074 nm)	1.01	0.26	493386.74
	R2404631-011 10X	Y_R (360.074 nm)	1.01	0.25	492333.99
	R2404631-011 10X	Zn (213.857 nm)	0.0002	12.26	12.5348
6/10/2024 19:51:01	Continuing Calibration Verification	Ag (328.068 nm)	0.5024	0.17	28249.4170
	Continuing Calibration Verification	Al (237.312 nm)	9.7657	0.02	24152.6051
	Continuing Calibration Verification	As (188.980 nm)	0.9646	0.31	1633.8496
	Continuing Calibration Verification	B (249.772 nm)	2.4127	0.31	78349.9634
	Continuing Calibration Verification	Ba (230.424 nm)	9.5766	0.09	521424.6800
	Continuing Calibration Verification	Be (313.107 nm)	0.2407	0.34	264240.5473
	Continuing Calibration Verification	Ca (317.933 nm)	25.4468	0.38	909167.4479
	Continuing Calibration Verification	Cd (214.439 nm)	0.4963	0.48	28276.3136
	Continuing Calibration Verification	Co (230.786 nm)	2.4629	0.13	44651.9050
	Continuing Calibration Verification	Cr (267.716 nm)	0.5114	0.37	26587.4140
	Continuing Calibration Verification	Cu (327.395 nm)	1.2176	0.47	53423.3247
	Continuing Calibration Verification	Fe (234.350 nm)	4.9700	0.33	90493.6038
	Continuing Calibration Verification	K (766.491 nm)	24.0063	0.23	26152.3926
	Continuing Calibration Verification	Mg (279.078 nm)	25.0406	0.28	81800.7385
	Continuing Calibration Verification	Mn (257.610 nm)	0.7351	0.31	245508.0551
	Continuing Calibration Verification	Mo (202.032 nm)	2.6154	0.45	27313.2016
	Continuing Calibration Verification	Na (588.995 nm)	25.2794	0.51	330642.1073
	Continuing Calibration Verification	Ni (230.299 nm)	2.0403	0.37	23984.1458
	Continuing Calibration Verification	Pb (220.353 nm)	0.5081	0.12	2660.7685
	Continuing Calibration Verification	Sb (217.582 nm)	4.7509	0.23	8831.7372
	Continuing Calibration Verification	Se (196.026 nm)	0.4742	1.02	350.4338
	Continuing Calibration Verification	Si (252.851 nm)	9.9234	0.48	37844.3169
	Continuing Calibration Verification	Sn (189.925 nm)	4.9404	0.24	12168.2785
	Continuing Calibration Verification	Sr (216.596 nm)	2.4332	0.27	42823.2894
	Continuing Calibration Verification	Ti (336.122 nm)	2.5042	0.21	361948.0193
	Continuing Calibration Verification	Tl (190.794 nm)	0.9674	0.28	944.1250
	Continuing Calibration Verification	V (292.401 nm)	2.4934	0.24	94490.2061
	Continuing Calibration Verification	Y (360.074 nm)	0.98	0.37	476895.73
	Continuing Calibration Verification	Y_R (360.074 nm)	0.98	0.38	475833.05
	Continuing Calibration Verification	Zn (213.857 nm)	0.9801	0.13	62735.8421
6/10/2024 19:54:15	Continuing Calibration Blank	Ag (328.068 nm)	-0.0001 u	> 100.00	-220.6136
	Continuing Calibration Blank	Al (237.312 nm)	0.0036	69.46	21.0569
	Continuing Calibration Blank	As (188.980 nm)	-0.0009 u	> 100.00	-3.6271
	Continuing Calibration Blank	B (249.772 nm)	0.0017	25.74	60.4360
	Continuing Calibration Blank	Ba (230.424 nm)	0.0009	6.73	58.3291
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	27.91	49.0142
	Continuing Calibration Blank	Ca (317.933 nm)	0.0085	2.11	3046.0842
	Continuing Calibration Blank	Cd (214.439 nm)	0.0001	50.93	8.9940
	Continuing Calibration Blank	Co (230.786 nm)	0.0002	21.34	-6.1108
	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u	> 100.00	8.3231

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Cu (327.395 nm)	0.0002	46.25	-18.8558
	Continuing Calibration Blank	Fe (234.350 nm)	0.0025	18.57	45.4194
	Continuing Calibration Blank	K (766.491 nm)	0.0121 u	> 100.00	-178.7422
	Continuing Calibration Blank	Mg (279.078 nm)	0.0030	17.59	-19.9621
	Continuing Calibration Blank	Mn (257.610 nm)	0.0001	7.81	52.7965
	Continuing Calibration Blank	Mo (202.032 nm)	0.0036	29.23	49.9981
	Continuing Calibration Blank	Na (588.995 nm)	0.0419	3.68	-13052.5219
	Continuing Calibration Blank	Ni (230.299 nm)	0.0006	28.36	32.1227
	Continuing Calibration Blank	Pb (220.353 nm)	0.0005 u	> 100.00	10.5798
	Continuing Calibration Blank	Sb (217.582 nm)	0.0034	34.85	12.9520
	Continuing Calibration Blank	Se (196.026 nm)	0.0006 u	> 100.00	5.1862
	Continuing Calibration Blank	Si (252.851 nm)	-0.0013 u	77.14	27.6832
	Continuing Calibration Blank	Sn (189.925 nm)	0.0006	76.14	4.5702
	Continuing Calibration Blank	Sr (216.596 nm)	0.0003	70.45	5.4696
	Continuing Calibration Blank	Ti (336.122 nm)	0.0027	36.94	551.9452
	Continuing Calibration Blank	Tl (190.794 nm)	0.0008 u	> 100.00	-0.4428
	Continuing Calibration Blank	V (292.401 nm)	0.0002	36.23	-34.2482
	Continuing Calibration Blank	Y (360.074 nm)	1.02	0.19	497458.87
	Continuing Calibration Blank	Y_R (360.074 nm)	1.02	0.19	496452.48
	Continuing Calibration Blank	Zn (213.857 nm)	0.0010	3.53	63.6704
6/10/2024 19:57:29	R2404730-001	Ag (328.068 nm)	-0.0002 u	46.97	-225.1305
	R2404730-001	Al (237.312 nm)	0.1418	1.67	362.8220
	R2404730-001	As (188.980 nm)	0.0004 u	> 100.00	-1.4043
	R2404730-001	B (249.772 nm)	0.0790	0.39	2570.3995
	R2404730-001	Ba (230.424 nm)	0.0511	0.46	2791.3617
	R2404730-001	Be (313.107 nm)	0.0000	14.66	74.2551
	R2404730-001	Ca (317.933 nm)	209.4823 o	0.29	7464593.4626
	R2404730-001	Cd (214.439 nm)	0.0002	56.37	16.1815
	R2404730-001	Co (230.786 nm)	0.0005	95.44	-0.4706
	R2404730-001	Cr (267.716 nm)	0.0007	5.44	40.5153
	R2404730-001	Cu (327.395 nm)	0.0010	10.29	18.2180
	R2404730-001	Fe (234.350 nm)	0.6177	0.11	11247.5506
	R2404730-001	K (766.491 nm)	13.7584	0.33	14906.3741
	R2404730-001	Mg (279.078 nm)	30.6956	0.15	100280.8044
	R2404730-001	Mn (257.610 nm)	0.4183	0.17	139720.5862
	R2404730-001	Mo (202.032 nm)	0.0018	25.73	31.2741
	R2404730-001	Na (588.995 nm)	115.0058 o	0.27	1552570.5753
	R2404730-001	Ni (230.299 nm)	0.0019	24.23	47.6414
	R2404730-001	Pb (220.353 nm)	0.0011	62.09	13.4703
	R2404730-001	Sb (217.582 nm)	0.0038	37.23	13.6689
	R2404730-001	Se (196.026 nm)	-0.0003 u	> 100.00	4.5274
	R2404730-001	Si (252.851 nm)	5.7578	0.07	21971.7636
	R2404730-001	Sn (189.925 nm)	0.0002 u	> 100.00	3.5589
	R2404730-001	Sr (216.596 nm)	1.4358	0.22	25269.0459
	R2404730-001	Ti (336.122 nm)	0.0044	12.60	796.2218
	R2404730-001	Tl (190.794 nm)	0.0013 u	> 100.00	0.0400
	R2404730-001	V (292.401 nm)	0.0002	> 100.00	-32.6072
	R2404730-001	Y (360.074 nm)	0.94	0.45	457974.42
	R2404730-001	Y_R (360.074 nm)	0.94	0.45	456990.75
	R2404730-001	Zn (213.857 nm)	0.0027	2.37	172.8594
6/10/2024 20:00:43	R2404730-002	Ag (328.068 nm)	-0.0006 u	25.73	-248.0295
	R2404730-002	Al (237.312 nm)	0.0614	1.89	164.0485
	R2404730-002	As (188.980 nm)	0.0019 u	> 100.00	1.1379
	R2404730-002	B (249.772 nm)	0.1466	0.20	4764.3345
	R2404730-002	Ba (230.424 nm)	0.4218	0.34	22976.2906
	R2404730-002	Be (313.107 nm)	0.0001	19.19	87.9408
	R2404730-002	Ca (317.933 nm)	621.2441 o LR	0.47	22131724.4175

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404730-002	Cd (214.439 nm)	0.0003	2.78	17.4784
	R2404730-002	Co (230.786 nm)	-0.0005 u	22.21	-19.6388
	R2404730-002	Cr (267.716 nm)	0.0006	28.64	38.3359
	R2404730-002	Cu (327.395 nm)	0.0009	21.00	12.4238
	R2404730-002	Fe (234.350 nm)	0.4353	0.36	7924.9156
	R2404730-002	K (766.491 nm)	55.1920 o	0.15	60375.5988
	R2404730-002	Mg (279.078 nm)	127.4134 o	0.44	416346.2874
	R2404730-002	Mn (257.610 nm)	0.0558	0.27	18660.1775
	R2404730-002	Mo (202.032 nm)	0.0030	18.27	43.4925
	R2404730-002	Na (588.995 nm)	518.4720 o LR	0.15	7047129.1468
	R2404730-002	Ni (230.299 nm)	0.0022	12.16	51.5187
	R2404730-002	Pb (220.353 nm)	0.0009	64.46	12.8310
	R2404730-002	Sb (217.582 nm)	0.0024	79.82	11.0355
	R2404730-002	Se (196.026 nm)	0.0005 u	> 100.00	5.1129
	R2404730-002	Si (252.851 nm)	5.5722	0.25	21264.8757
	R2404730-002	Sn (189.925 nm)	0.0006 u	> 100.00	4.4876
	R2404730-002	Sr (216.596 nm)	4.8661	0.71	85641.3113
	R2404730-002	Ti (336.122 nm)	0.0075	5.20	1241.9635
	R2404730-002	Tl (190.794 nm)	0.0015 u	> 100.00	0.2511
	R2404730-002	V (292.401 nm)	-0.0001 u	> 100.00	-46.0756
	R2404730-002	Y (360.074 nm)	0.85	0.11	416577.65
	R2404730-002	Y_R (360.074 nm)	0.85	0.11	415665.28
	R2404730-002	Zn (213.857 nm)	0.0062	0.88	395.7720
6/10/2024 20:03:56	R2404730-003	Ag (328.068 nm)	-0.0006 u	35.57	-246.9046
	R2404730-003	Al (237.312 nm)	0.1335	1.16	342.3956
	R2404730-003	As (188.980 nm)	0.0019 u	> 100.00	1.1256
	R2404730-003	B (249.772 nm)	0.1302	0.43	4233.1679
	R2404730-003	Ba (230.424 nm)	0.7754	0.44	42229.8204
	R2404730-003	Be (313.107 nm)	0.0001	2.98	102.9868
	R2404730-003	Ca (317.933 nm)	773.8270 o LR	0.26	27566794.0217
	R2404730-003	Cd (214.439 nm)	0.0002	11.55	13.7133
	R2404730-003	Co (230.786 nm)	0.0001 u	> 100.00	-7.8117
	R2404730-003	Cr (267.716 nm)	0.0006	34.17	34.6844
	R2404730-003	Cu (327.395 nm)	0.0013	21.48	31.5550
	R2404730-003	Fe (234.350 nm)	0.3969	0.29	7226.7041
	R2404730-003	K (766.491 nm)	62.1100 o	0.16	67967.3595
	R2404730-003	Mg (279.078 nm)	120.5625 o	0.26	393957.8525
	R2404730-003	Mn (257.610 nm)	0.2568	0.22	85784.9692
	R2404730-003	Mo (202.032 nm)	0.0012	20.40	24.4419
	R2404730-003	Na (588.995 nm)	602.0156 o LR	0.26	8184858.7567
	R2404730-003	Ni (230.299 nm)	0.0046	6.52	78.7635
	R2404730-003	Pb (220.353 nm)	0.0018	28.12	17.4655
	R2404730-003	Sb (217.582 nm)	0.0000 u	> 100.00	6.6394
	R2404730-003	Se (196.026 nm)	0.0011 u	> 100.00	5.5474
	R2404730-003	Si (252.851 nm)	6.9111	0.18	26366.4102
	R2404730-003	Sn (189.925 nm)	0.0003 u	> 100.00	3.7019
	R2404730-003	Sr (216.596 nm)	5.9485 o	0.36	104690.5699
	R2404730-003	Ti (336.122 nm)	0.0103	0.48	1640.7269
	R2404730-003	Tl (190.794 nm)	0.0011 u	88.97	-0.1400
	R2404730-003	V (292.401 nm)	-0.0001 u	> 100.00	-43.2880
	R2404730-003	Y (360.074 nm)	0.84	0.47	410003.85
	R2404730-003	Y_R (360.074 nm)	0.84	0.47	409083.24
	R2404730-003	Zn (213.857 nm)	0.0024	1.61	153.2322
6/10/2024 20:07:10	R2404730-004	Ag (328.068 nm)	-0.0001 u	> 100.00	-220.3396
	R2404730-004	Al (237.312 nm)	0.2222	1.03	561.5379
	R2404730-004	As (188.980 nm)	-0.0016 u	83.51	-4.7721
	R2404730-004	B (249.772 nm)	0.0605	0.16	1969.8587

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404730-004	Ba (230.424 nm)	0.1779	0.33	9700.1452
	R2404730-004	Be (313.107 nm)	0.0000	15.52	64.8861
	R2404730-004	Ca (317.933 nm)	212.1943 o	0.26	7561195.6407
	R2404730-004	Cd (214.439 nm)	0.0002	29.74	14.0861
	R2404730-004	Co (230.786 nm)	0.0008	30.36	5.4032
	R2404730-004	Cr (267.716 nm)	0.0005	24.24	29.7595
	R2404730-004	Cu (327.395 nm)	0.0020	7.06	59.5486
	R2404730-004	Fe (234.350 nm)	0.3570	0.23	6499.0983
	R2404730-004	K (766.491 nm)	16.0734	0.32	17446.8954
	R2404730-004	Mg (279.078 nm)	30.4954	0.22	99626.6868
	R2404730-004	Mn (257.610 nm)	0.3999	0.24	133580.3262
	R2404730-004	Mo (202.032 nm)	0.0049	3.16	62.7153
	R2404730-004	Na (588.995 nm)	111.6000 o	0.19	1506189.6230
	R2404730-004	Ni (230.299 nm)	0.0034	5.96	65.2798
	R2404730-004	Pb (220.353 nm)	0.0005	> 100.00	10.6716
	R2404730-004	Sb (217.582 nm)	0.0021	31.91	10.4304
	R2404730-004	Se (196.026 nm)	-0.0048 u	42.96	1.2706
	R2404730-004	Si (252.851 nm)	6.1331	0.18	23402.0591
	R2404730-004	Sn (189.925 nm)	0.0005	55.87	4.3395
	R2404730-004	Sr (216.596 nm)	1.6023	0.24	28198.4556
	R2404730-004	Ti (336.122 nm)	0.0058	4.09	998.0634
	R2404730-004	Tl (190.794 nm)	0.0027	23.56	1.4491
	R2404730-004	V (292.401 nm)	0.0001	79.37	-36.4058
	R2404730-004	Y (360.074 nm)	0.94	0.27	457924.30
	R2404730-004	Y_R (360.074 nm)	0.94	0.27	456940.59
	R2404730-004	Zn (213.857 nm)	0.0023	0.51	145.4843
6/10/2024 20:10:24	R2404730-006	Ag (328.068 nm)	-0.0004 u	8.52	-236.6252
	R2404730-006	Al (237.312 nm)	0.1830	1.44	464.7434
	R2404730-006	As (188.980 nm)	0.0002 u	> 100.00	-1.7581
	R2404730-006	B (249.772 nm)	0.0415	0.66	1354.1409
	R2404730-006	Ba (230.424 nm)	0.0763	0.36	4166.1325
	R2404730-006	Be (313.107 nm)	0.0000	32.08	63.2137
	R2404730-006	Ca (317.933 nm)	158.1793 o	0.19	5637156.1964
	R2404730-006	Cd (214.439 nm)	0.0003	9.65	17.5863
	R2404730-006	Co (230.786 nm)	0.0003	32.56	-4.1381
	R2404730-006	Cr (267.716 nm)	0.0009	10.73	53.9631
	R2404730-006	Cu (327.395 nm)	0.0016	11.23	43.7540
	R2404730-006	Fe (234.350 nm)	0.2267	0.08	4128.2256
	R2404730-006	K (766.491 nm)	8.8201	0.25	9487.1736
	R2404730-006	Mg (279.078 nm)	26.6796	0.14	87156.7251
	R2404730-006	Mn (257.610 nm)	0.2008	0.16	67086.9044
	R2404730-006	Mo (202.032 nm)	0.0044	2.97	57.9278
	R2404730-006	Na (588.995 nm)	84.5312 o	0.06	1137555.6414
	R2404730-006	Ni (230.299 nm)	0.0017	16.00	45.2745
	R2404730-006	Pb (220.353 nm)	0.0014	45.31	15.4912
	R2404730-006	Sb (217.582 nm)	0.0010 u	> 100.00	8.4285
	R2404730-006	Se (196.026 nm)	-0.0009 u	> 100.00	4.1157
	R2404730-006	Si (252.851 nm)	4.7264	0.04	18042.0609
	R2404730-006	Sn (189.925 nm)	0.0002 u	> 100.00	3.4212
	R2404730-006	Sr (216.596 nm)	1.4266	0.14	25107.6554
	R2404730-006	Ti (336.122 nm)	0.0050	15.70	877.6837
	R2404730-006	Tl (190.794 nm)	0.0008 u	> 100.00	-0.4251
	R2404730-006	V (292.401 nm)	0.0002	88.19	-33.6826
	R2404730-006	Y (360.074 nm)	0.95	0.52	464747.50
	R2404730-006	Y_R (360.074 nm)	0.95	0.51	463741.05
	R2404730-006	Zn (213.857 nm)	0.0029	1.33	187.3471
6/10/2024 20:13:38	R2404730-006L 5X	Ag (328.068 nm)	-0.0004 u	24.10	-236.7641

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404730-006L 5X	Al (237.312 nm)	0.0376	5.32	105.2347
	R2404730-006L 5X	As (188.980 nm)	-0.0008 u	> 100.00	-3.3016
	R2404730-006L 5X	B (249.772 nm)	0.0084	3.85	277.7291
	R2404730-006L 5X	Ba (230.424 nm)	0.0155	0.76	856.0279
	R2404730-006L 5X	Be (313.107 nm)	0.0000	25.04	42.9067
	R2404730-006L 5X	Ca (317.933 nm)	33.1282	0.46	1182782.5072
	R2404730-006L 5X	Cd (214.439 nm)	0.0001	23.14	8.1642
	R2404730-006L 5X	Co (230.786 nm)	0.0000 u	> 100.00	-9.5349
	R2404730-006L 5X	Cr (267.716 nm)	0.0002	48.10	18.0822
	R2404730-006L 5X	Cu (327.395 nm)	0.0006	47.92	-3.1192
	R2404730-006L 5X	Fe (234.350 nm)	0.0471	0.48	856.7141
	R2404730-006L 5X	K (766.491 nm)	1.7104	2.89	1684.9801
	R2404730-006L 5X	Mg (279.078 nm)	5.4711	0.39	17849.1698
	R2404730-006L 5X	Mn (257.610 nm)	0.0412	0.41	13780.9030
	R2404730-006L 5X	Mo (202.032 nm)	0.0008	18.16	20.8241
	R2404730-006L 5X	Na (588.995 nm)	17.1211	0.01	219538.5885
	R2404730-006L 5X	Ni (230.299 nm)	0.0008	68.69	35.0123
	R2404730-006L 5X	Pb (220.353 nm)	0.0007 u	> 100.00	11.3218
	R2404730-006L 5X	Sb (217.582 nm)	-0.0014 u	37.02	3.9658
	R2404730-006L 5X	Se (196.026 nm)	0.0024 u	> 100.00	6.5463
	R2404730-006L 5X	Si (252.851 nm)	0.9493	0.76	3649.8602
	R2404730-006L 5X	Sn (189.925 nm)	-0.0006 u	> 100.00	1.5893
	R2404730-006L 5X	Sr (216.596 nm)	0.2909	0.48	5118.6660
	R2404730-006L 5X	Ti (336.122 nm)	0.0009	13.60	288.8268
	R2404730-006L 5X	Tl (190.794 nm)	0.0009 u	> 100.00	-0.3459
	R2404730-006L 5X	V (292.401 nm)	0.0001 u	> 100.00	-36.3512
	R2404730-006L 5X	Y (360.074 nm)	1.00	0.10	487380.76
	R2404730-006L 5X	Y_R (360.074 nm)	1.00	0.10	486321.61
	R2404730-006L 5X	Zn (213.857 nm)	0.0006	13.99	36.7455
6/10/2024 20:16:52	R2404731-003	Ag (328.068 nm)	-0.0004 u	29.18	-236.8515
	R2404731-003	Al (237.312 nm)	0.0100	31.49	37.0510
	R2404731-003	As (188.980 nm)	-0.0031 u	22.54	-7.2450
	R2404731-003	B (249.772 nm)	0.0014	7.51	50.3654
	R2404731-003	Ba (230.424 nm)	0.0002	34.05	19.8672
	R2404731-003	Be (313.107 nm)	0.0000	42.48	32.1889
	R2404731-003	Ca (317.933 nm)	0.0841	0.18	5737.0043
	R2404731-003	Cd (214.439 nm)	0.0002	45.69	13.6675
	R2404731-003	Co (230.786 nm)	-0.0002 u	49.63	-13.1458
	R2404731-003	Cr (267.716 nm)	0.0004	26.17	25.3768
	R2404731-003	Cu (327.395 nm)	0.0004	65.24	-8.8692
	R2404731-003	Fe (234.350 nm)	0.0060	5.91	109.7168
	R2404731-003	K (766.491 nm)	0.0614	62.12	-124.6655
	R2404731-003	Mg (279.078 nm)	0.0180	2.85	28.8866
	R2404731-003	Mn (257.610 nm)	0.0002	1.97	86.0009
	R2404731-003	Mo (202.032 nm)	0.0002	> 100.00	13.7654
	R2404731-003	Na (588.995 nm)	0.3100	1.82	-9400.8132
	R2404731-003	Ni (230.299 nm)	-0.0006 u	> 100.00	18.4006
	R2404731-003	Pb (220.353 nm)	0.0007	55.59	11.5937
	R2404731-003	Sb (217.582 nm)	0.0050	29.69	15.8482
	R2404731-003	Se (196.026 nm)	0.0004 u	> 100.00	5.0803
	R2404731-003	Si (252.851 nm)	0.3108	0.68	1216.7632
	R2404731-003	Sn (189.925 nm)	0.0015	24.47	6.6730
	R2404731-003	Sr (216.596 nm)	0.0004	15.30	6.2358
	R2404731-003	Ti (336.122 nm)	-0.0001 u	76.04	140.2087
	R2404731-003	Tl (190.794 nm)	0.0001 u	> 100.00	-1.0625
	R2404731-003	V (292.401 nm)	0.0000 u	> 100.00	-41.6239
	R2404731-003	Y (360.074 nm)	1.02	0.13	499973.53

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404731-003	Y_R (360.074 nm)	1.02	0.13	498906.53
	R2404731-003	Zn (213.857 nm)	-0.0001 u	13.00	-9.0681
6/10/2024 20:20:07	R2404758-001 10X	Ag (328.068 nm)	-0.0004 u	32.80	-236.7881
	R2404758-001 10X	Al (237.312 nm)	0.0251	5.98	74.3747
	R2404758-001 10X	As (188.980 nm)	0.0395	5.88	65.0425
	R2404758-001 10X	B (249.772 nm)	2.5954	1.60	84281.0198
	R2404758-001 10X	Ba (230.424 nm)	0.1571	1.33	8567.3072
	R2404758-001 10X	Be (313.107 nm)	0.0000	57.74	35.2865
	R2404758-001 10X	Ca (317.933 nm)	20.6966	1.34	739963.5484
	R2404758-001 10X	Cd (214.439 nm)	0.0001 u	98.03	8.6447
	R2404758-001 10X	Co (230.786 nm)	0.0043	3.34	68.0249
	R2404758-001 10X	Cr (267.716 nm)	0.0229	1.14	1194.6796
	R2404758-001 10X	Cu (327.395 nm)	0.0002	52.03	-18.6039
	R2404758-001 10X	Fe (234.350 nm)	0.1264	1.32	2301.8568
	R2404758-001 10X	K (766.491 nm)	219.2924 o LR	1.79	240459.0540
	R2404758-001 10X	Mg (279.078 nm)	24.6989	1.34	80683.9564
	R2404758-001 10X	Mn (257.610 nm)	0.0178	1.42	5953.8951
	R2404758-001 10X	Mo (202.032 nm)	0.0298	3.23	323.2395
	R2404758-001 10X	Na (588.995 nm)	741.9425 o LR	1.74	10090437.2138
	R2404758-001 10X	Ni (230.299 nm)	0.0255	2.66	324.8296
	R2404758-001 10X	Pb (220.353 nm)	0.0005	48.69	10.6777
	R2404758-001 10X	Sb (217.582 nm)	0.0019	73.30	10.1325
	R2404758-001 10X	Se (196.026 nm)	-0.0015 u	> 100.00	3.6653
	R2404758-001 10X	Si (252.851 nm)	2.5828	1.59	9873.9769
	R2404758-001 10X	Sn (189.925 nm)	0.0019	59.20	7.7105
	R2404758-001 10X	Sr (216.596 nm)	0.3456	1.19	6081.0183
	R2404758-001 10X	Ti (336.122 nm)	0.0128	1.31	2002.7514
	R2404758-001 10X	Tl (190.794 nm)	0.0016	> 100.00	0.3937
	R2404758-001 10X	V (292.401 nm)	0.0125	1.40	434.9872
	R2404758-001 10X	Y (360.074 nm)	0.88	0.27	427692.72
	R2404758-001 10X	Y_R (360.074 nm)	0.87	0.27	426719.02
	R2404758-001 10X	Zn (213.857 nm)	0.0098	0.94	629.3793
6/10/2024 20:23:21	R2404765-002	Ag (328.068 nm)	0.0006	30.54	-180.1154
	R2404765-002	Al (237.312 nm)	1.6972	0.03	4207.7040
	R2404765-002	As (188.980 nm)	0.1501	1.42	252.4946
	R2404765-002	B (249.772 nm)	9.6250	0.22	312539.6839
	R2404765-002	Ba (230.424 nm)	0.2841	0.31	15481.3715
	R2404765-002	Be (313.107 nm)	0.0001	13.84	92.9728
	R2404765-002	Ca (317.933 nm)	122.1734 o	0.41	4354610.4227
	R2404765-002	Cd (214.439 nm)	0.0007	7.57	40.3017
	R2404765-002	Co (230.786 nm)	0.0227	0.75	402.4462
	R2404765-002	Cr (267.716 nm)	0.1699	0.22	8837.4314
	R2404765-002	Cu (327.395 nm)	0.4859	0.07	21301.5213
	R2404765-002	Fe (234.350 nm)	5.8557	0.30	106619.7516
	R2404765-002	K (766.491 nm)	485.7107 o LR	0.21	532825.9818
	R2404765-002	Mg (279.078 nm)	64.3744 o	0.43	210340.1968
	R2404765-002	Mn (257.610 nm)	0.6346	0.26	211934.2159
	R2404765-002	Mo (202.032 nm)	0.0091	3.92	107.3378
	R2404765-002	Na (588.995 nm)	1183.3228 o	0.34	16101324.8928
	R2404765-002	Ni (230.299 nm)	0.1138	0.81	1361.9115
	R2404765-002	Pb (220.353 nm)	0.0171	5.86	97.1886
	R2404765-002	Sb (217.582 nm)	0.0189	15.55	41.6097
	R2404765-002	Se (196.026 nm)	0.0000 u	> 100.00	4.7710
	R2404765-002	Si (252.851 nm)	14.0479	0.43	53560.0679
	R2404765-002	Sn (189.925 nm)	0.0436	1.44	110.4616
	R2404765-002	Sr (216.596 nm)	1.2516	0.41	22027.2963
	R2404765-002	Ti (336.122 nm)	0.1052	0.18	15351.1697

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404765-002	Tl (190.794 nm)	0.0029	51.37	1.5949
	R2404765-002	V (292.401 nm)	0.0138	1.39	484.4973
	R2404765-002	Y (360.074 nm)	0.81	0.13	394229.39
	R2404765-002	Y_R (360.074 nm)	0.81	0.13	393318.29
	R2404765-002	Zn (213.857 nm)	0.6086	0.21	38956.9785
6/10/2024 20:26:35	R2404780-001	Ag (328.068 nm)	-0.0003 u	38.35	-232.1446
	R2404780-001	Al (237.312 nm)	0.2444	0.28	616.5295
	R2404780-001	As (188.980 nm)	-0.0003 u	> 100.00	-2.6015
	R2404780-001	B (249.772 nm)	0.0295	4.03	962.6683
	R2404780-001	Ba (230.424 nm)	0.0520	0.31	2843.8506
	R2404780-001	Be (313.107 nm)	0.0000	37.34	62.9859
	R2404780-001	Ca (317.933 nm)	88.0979 o	0.27	3140826.7167
	R2404780-001	Cd (214.439 nm)	0.0002	47.03	14.9272
	R2404780-001	Co (230.786 nm)	0.0001 u	> 100.00	-8.7619
	R2404780-001	Cr (267.716 nm)	0.0008	8.64	46.6007
	R2404780-001	Cu (327.395 nm)	0.0014	8.05	35.2345
	R2404780-001	Fe (234.350 nm)	0.2116	0.79	3851.6180
	R2404780-001	K (766.491 nm)	4.2699	3.35	4493.7690
	R2404780-001	Mg (279.078 nm)	19.6704	0.15	64251.4374
	R2404780-001	Mn (257.610 nm)	0.0060	0.33	2009.2654
	R2404780-001	Mo (202.032 nm)	0.0013	19.53	25.2154
	R2404780-001	Na (588.995 nm)	31.7823	0.29	419201.3042
	R2404780-001	Ni (230.299 nm)	0.0000 u	> 100.00	25.3689
	R2404780-001	Pb (220.353 nm)	0.0009	59.50	12.7783
	R2404780-001	Sb (217.582 nm)	0.0034	31.82	12.9170
	R2404780-001	Se (196.026 nm)	0.0004 u	> 100.00	5.0521
	R2404780-001	Si (252.851 nm)	2.6573	0.26	10157.9148
	R2404780-001	Sn (189.925 nm)	0.0000 u	> 100.00	2.9512
	R2404780-001	Sr (216.596 nm)	0.8792	0.09	15473.1883
	R2404780-001	Ti (336.122 nm)	0.0041	2.88	749.9174
	R2404780-001	Tl (190.794 nm)	0.0003 u	> 100.00	-0.9473
	R2404780-001	V (292.401 nm)	0.0003	30.91	-30.3777
	R2404780-001	Y (360.074 nm)	0.98	0.31	479074.96
	R2404780-001	Y_R (360.074 nm)	0.98	0.31	478036.83
	R2404780-001	Zn (213.857 nm)	0.0027	1.65	172.0385
6/10/2024 20:29:49	Continuing Calibration Verification	Ag (328.068 nm)	0.5016	0.11	28200.2008
	Continuing Calibration Verification	Al (237.312 nm)	9.7245	0.09	24050.8446
	Continuing Calibration Verification	As (188.980 nm)	0.9650	0.07	1634.4661
	Continuing Calibration Verification	B (249.772 nm)	2.4100	0.08	78260.7792
	Continuing Calibration Verification	Ba (230.424 nm)	9.5525	0.17	520113.6124
	Continuing Calibration Verification	Be (313.107 nm)	0.2406	0.24	264135.0660
	Continuing Calibration Verification	Ca (317.933 nm)	25.5229	0.29	911878.3771
	Continuing Calibration Verification	Cd (214.439 nm)	0.4964	0.33	28282.7523
	Continuing Calibration Verification	Co (230.786 nm)	2.4537	0.13	44484.7836
	Continuing Calibration Verification	Cr (267.716 nm)	0.5108	0.31	26558.7000
	Continuing Calibration Verification	Cu (327.395 nm)	1.2082	0.33	53007.6363
	Continuing Calibration Verification	Fe (234.350 nm)	4.9666	0.18	90431.5906
	Continuing Calibration Verification	K (766.491 nm)	24.2459	0.25	26415.3302
	Continuing Calibration Verification	Mg (279.078 nm)	25.0975	0.23	81986.8228
	Continuing Calibration Verification	Mn (257.610 nm)	0.7336	0.21	245004.1437
	Continuing Calibration Verification	Mo (202.032 nm)	2.6224	0.26	27386.0092
	Continuing Calibration Verification	Na (588.995 nm)	25.4836	0.40	333422.9620
	Continuing Calibration Verification	Ni (230.299 nm)	2.0403	0.20	23984.1800
	Continuing Calibration Verification	Pb (220.353 nm)	0.5086	0.37	2663.2267
	Continuing Calibration Verification	Sb (217.582 nm)	4.7340	0.22	8800.2996
	Continuing Calibration Verification	Se (196.026 nm)	0.4688	0.67	346.5273
	Continuing Calibration Verification	Si (252.851 nm)	10.3668	0.66	39533.7517

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	Sn (189.925 nm)	4.9329	0.21	12149.7736
	Continuing Calibration Verification	Sr (216.596 nm)	2.4299	0.46	42765.0338
	Continuing Calibration Verification	Ti (336.122 nm)	2.4998	0.10	361319.7647
	Continuing Calibration Verification	Tl (190.794 nm)	0.9644	0.24	941.1792
	Continuing Calibration Verification	V (292.401 nm)	2.4899	0.23	94356.5784
	Continuing Calibration Verification	Y (360.074 nm)	0.98	0.27	479012.27
	Continuing Calibration Verification	Y_R (360.074 nm)	0.98	0.27	477956.21
	Continuing Calibration Verification	Zn (213.857 nm)	0.9759	0.10	62468.3507
6/10/2024 20:33:03	Continuing Calibration Blank	Ag (328.068 nm)	-0.0003 u	28.34	-230.9855
	Continuing Calibration Blank	Al (237.312 nm)	0.0022 u	98.37	17.6814
	Continuing Calibration Blank	As (188.980 nm)	-0.0009 u	> 100.00	-3.5659
	Continuing Calibration Blank	B (249.772 nm)	0.0028	15.83	96.9432
	Continuing Calibration Blank	Ba (230.424 nm)	0.0009	4.79	58.6449
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	5.17	63.0396
	Continuing Calibration Blank	Ca (317.933 nm)	0.0098	3.00	3091.0008
	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 u	> 100.00	7.8782
	Continuing Calibration Blank	Co (230.786 nm)	0.0001 u	> 100.00	-8.0037
	Continuing Calibration Blank	Cr (267.716 nm)	0.0001	41.35	13.0931
	Continuing Calibration Blank	Cu (327.395 nm)	0.0005	42.83	-6.0136
	Continuing Calibration Blank	Fe (234.350 nm)	0.0026	24.74	46.7643
	Continuing Calibration Blank	K (766.491 nm)	0.2309	12.50	61.3259
	Continuing Calibration Blank	Mg (279.078 nm)	0.0032	65.85	-19.3643
	Continuing Calibration Blank	Mn (257.610 nm)	0.0001	11.73	56.1181
	Continuing Calibration Blank	Mo (202.032 nm)	0.0035	28.02	48.9956
	Continuing Calibration Blank	Na (588.995 nm)	0.2406	4.04	-10345.7007
	Continuing Calibration Blank	Ni (230.299 nm)	0.0000 u	> 100.00	25.6372
	Continuing Calibration Blank	Pb (220.353 nm)	0.0008 u	> 100.00	11.9435
	Continuing Calibration Blank	Sb (217.582 nm)	0.0036	27.29	13.3616
	Continuing Calibration Blank	Se (196.026 nm)	-0.0011 u	> 100.00	3.9457
	Continuing Calibration Blank	Si (252.851 nm)	0.0646	16.40	278.7496
	Continuing Calibration Blank	Sn (189.925 nm)	0.0010	57.59	5.5547
	Continuing Calibration Blank	Sr (216.596 nm)	0.0005	25.92	9.0139
	Continuing Calibration Blank	Ti (336.122 nm)	0.0028	40.90	564.3348
	Continuing Calibration Blank	Tl (190.794 nm)	0.0017	82.94	0.5005
	Continuing Calibration Blank	V (292.401 nm)	0.0001	> 100.00	-35.8414
	Continuing Calibration Blank	Y (360.074 nm)	1.02	0.07	497781.52
	Continuing Calibration Blank	Y_R (360.074 nm)	1.02	0.07	496691.56
	Continuing Calibration Blank	Zn (213.857 nm)	0.0010	1.37	63.6997
6/10/2024 20:36:16	R2404780-002	Ag (328.068 nm)	-0.0005 u	31.77	-244.3371
	R2404780-002	Al (237.312 nm)	0.3420	0.58	857.7239
	R2404780-002	As (188.980 nm)	0.0033	65.52	3.5054
	R2404780-002	B (249.772 nm)	0.0490	0.49	1597.3495
	R2404780-002	Ba (230.424 nm)	0.0866	0.30	4725.0905
	R2404780-002	Be (313.107 nm)	0.0001	23.59	100.8364
	R2404780-002	Ca (317.933 nm)	421.8201 o LR	0.50	15028157.4133
	R2404780-002	Cd (214.439 nm)	0.0003	13.32	17.7069
	R2404780-002	Co (230.786 nm)	0.0012	11.01	12.8956
	R2404780-002	Cr (267.716 nm)	0.0011	3.30	64.8124
	R2404780-002	Cu (327.395 nm)	0.0010	23.88	17.5441
	R2404780-002	Fe (234.350 nm)	0.8426	0.26	15341.6763
	R2404780-002	K (766.491 nm)	24.5151	0.12	26710.7646
	R2404780-002	Mg (279.078 nm)	37.4676	0.37	122411.0750
	R2404780-002	Mn (257.610 nm)	0.5066	0.35	169214.3004
	R2404780-002	Mo (202.032 nm)	0.0022	11.70	34.5207
	R2404780-002	Na (588.995 nm)	263.2601 o LR	0.32	3571555.2220
	R2404780-002	Ni (230.299 nm)	0.0038	8.44	69.9183
	R2404780-002	Pb (220.353 nm)	0.0016	21.60	16.2745

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404780-002	Sb (217.582 nm)	0.0004 u	> 100.00	7.3719
	R2404780-002	Se (196.026 nm)	0.0005 u	> 100.00	5.1510
	R2404780-002	Si (252.851 nm)	5.7485	0.06	21936.6290
	R2404780-002	Sn (189.925 nm)	-0.0002 u	> 100.00	2.5017
	R2404780-002	Sr (216.596 nm)	3.2963	0.53	58012.4303
	R2404780-002	Ti (336.122 nm)	0.0126	9.40	1970.1886
	R2404780-002	Tl (190.794 nm)	0.0024	35.13	1.0993
	R2404780-002	V (292.401 nm)	0.0002	16.65	-32.3512
	R2404780-002	Y (360.074 nm)	0.90	0.12	438972.24
	R2404780-002	Y_R (360.074 nm)	0.90	0.11	437994.54
	R2404780-002	Zn (213.857 nm)	0.0035	0.64	222.2789
6/10/2024 20:39:30	R2404780-003	Ag (328.068 nm)	-0.0005 u	30.20	-240.2729
	R2404780-003	Al (237.312 nm)	0.2193	1.36	554.4612
	R2404780-003	As (188.980 nm)	0.0001 u	> 100.00	-1.7972
	R2404780-003	B (249.772 nm)	0.0557	0.59	1815.2234
	R2404780-003	Ba (230.424 nm)	0.0501	0.55	2739.8201
	R2404780-003	Be (313.107 nm)	0.0001	13.11	88.6891
	R2404780-003	Ca (317.933 nm)	432.8085 o LR	0.44	15419568.1468
	R2404780-003	Cd (214.439 nm)	0.0003	29.93	17.9256
	R2404780-003	Co (230.786 nm)	0.0024	12.42	33.7791
	R2404780-003	Cr (267.716 nm)	0.0003	49.10	24.0148
	R2404780-003	Cu (327.395 nm)	0.0015	4.47	39.1478
	R2404780-003	Fe (234.350 nm)	0.2799	0.38	5096.0271
	R2404780-003	K (766.491 nm)	23.0767	0.16	25132.2619
	R2404780-003	Mg (279.078 nm)	43.7978	0.38	143097.5794
	R2404780-003	Mn (257.610 nm)	0.7101	0.34	237168.1945
	R2404780-003	Mo (202.032 nm)	0.0010	24.24	22.3100
	R2404780-003	Na (588.995 nm)	289.1159 o LR	0.17	3923669.7800
	R2404780-003	Ni (230.299 nm)	0.0040	10.26	72.0372
	R2404780-003	Pb (220.353 nm)	0.0015	25.98	15.6538
	R2404780-003	Sb (217.582 nm)	0.0011 u	> 100.00	8.6570
	R2404780-003	Se (196.026 nm)	-0.0028 u	78.52	2.7343
	R2404780-003	Si (252.851 nm)	5.3765	0.12	20518.8776
	R2404780-003	Sn (189.925 nm)	-0.0001 u	> 100.00	2.7000
	R2404780-003	Sr (216.596 nm)	3.2734	0.55	57609.6153
	R2404780-003	Ti (336.122 nm)	0.0101	3.02	1607.6200
	R2404780-003	Tl (190.794 nm)	0.0017	64.16	0.4796
	R2404780-003	V (292.401 nm)	-0.0001 u	> 100.00	-45.1479
	R2404780-003	Y (360.074 nm)	0.89	0.14	437088.97
	R2404780-003	Y_R (360.074 nm)	0.89	0.14	436104.50
	R2404780-003	Zn (213.857 nm)	0.0030	0.99	189.4540
6/10/2024 20:42:44	R2404730-001 20X	Ag (328.068 nm)	-0.0003 u	54.16	-233.2165
	R2404730-001 20X	Al (237.312 nm)	0.0090	13.22	34.6174
	R2404730-001 20X	As (188.980 nm)	-0.0005 u	> 100.00	-2.9482
	R2404730-001 20X	B (249.772 nm)	0.0046	3.41	153.7258
	R2404730-001 20X	Ba (230.424 nm)	0.0025	2.96	149.2361
	R2404730-001 20X	Be (313.107 nm)	0.0000	37.82	42.1338
	R2404730-001 20X	Ca (317.933 nm)	11.2187	0.34	402358.4408
	R2404730-001 20X	Cd (214.439 nm)	0.0001	84.86	7.5235
	R2404730-001 20X	Co (230.786 nm)	0.0001 u	> 100.00	-8.3570
	R2404730-001 20X	Cr (267.716 nm)	0.0000 u	> 100.00	3.7996
	R2404730-001 20X	Cu (327.395 nm)	0.0005	85.02	-3.5506
	R2404730-001 20X	Fe (234.350 nm)	0.0331	1.29	603.0074
	R2404730-001 20X	K (766.491 nm)	0.7435	2.90	623.8380
	R2404730-001 20X	Mg (279.078 nm)	1.5720	0.12	5107.3272
	R2404730-001 20X	Mn (257.610 nm)	0.0215	0.15	7182.0000
	R2404730-001 20X	Mo (202.032 nm)	0.0003	67.08	14.7652

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404730-001 20X	Na (588.995 nm)	5.8791	0.32	66440.6832
	R2404730-001 20X	Ni (230.299 nm)	0.0001 u	> 100.00	25.9874
	R2404730-001 20X	Pb (220.353 nm)	0.0005 u	> 100.00	10.7337
	R2404730-001 20X	Sb (217.582 nm)	-0.0006 u	94.22	5.4118
	R2404730-001 20X	Se (196.026 nm)	0.0005 u	> 100.00	5.1106
	R2404730-001 20X	Si (252.851 nm)	0.3034	0.48	1188.7977
	R2404730-001 20X	Sn (189.925 nm)	0.0005	> 100.00	4.3246
	R2404730-001 20X	Sr (216.596 nm)	0.0739	0.89	1299.5000
	R2404730-001 20X	Ti (336.122 nm)	0.0004	40.06	218.4931
	R2404730-001 20X	Tl (190.794 nm)	0.0008	56.70	-0.4117
	R2404730-001 20X	V (292.401 nm)	-0.0003 u	> 100.00	-50.1878
	R2404730-001 20X	Y (360.074 nm)	1.01	0.10	491484.52
	R2404730-001 20X	Y_R (360.074 nm)	1.01	0.10	490403.22
	R2404730-001 20X	Zn (213.857 nm)	0.0001	57.29	5.9690
6/10/2024 20:45:57	R2404730-002 20X	Ag (328.068 nm)	-0.0004 u	17.38	-234.7422
	R2404730-002 20X	Al (237.312 nm)	0.0045	14.25	23.5161
	R2404730-002 20X	As (188.980 nm)	-0.0016 u	73.66	-4.8132
	R2404730-002 20X	B (249.772 nm)	0.0075	2.87	250.4431
	R2404730-002 20X	Ba (230.424 nm)	0.0218	0.24	1198.9336
	R2404730-002 20X	Be (313.107 nm)	0.0000	35.97	44.9302
	R2404730-002 20X	Ca (317.933 nm)	38.1536	0.17	1361789.1653
	R2404730-002 20X	Cd (214.439 nm)	0.0001 u	> 100.00	5.6842
	R2404730-002 20X	Co (230.786 nm)	-0.0001 u	53.89	-12.2327
	R2404730-002 20X	Cr (267.716 nm)	0.0000 u	> 100.00	8.1244
	R2404730-002 20X	Cu (327.395 nm)	0.0002	37.09	-17.0198
	R2404730-002 20X	Fe (234.350 nm)	0.0234	0.36	425.4885
	R2404730-002 20X	K (766.491 nm)	2.3545	1.45	2391.8318
	R2404730-002 20X	Mg (279.078 nm)	6.4806	0.26	21148.2243
	R2404730-002 20X	Mn (257.610 nm)	0.0029	0.53	992.8387
	R2404730-002 20X	Mo (202.032 nm)	0.0001 u	> 100.00	12.9257
	R2404730-002 20X	Na (588.995 nm)	27.8742	0.42	365978.4462
	R2404730-002 20X	Ni (230.299 nm)	0.0002	41.79	28.1814
	R2404730-002 20X	Pb (220.353 nm)	0.0004 u	> 100.00	9.7913
	R2404730-002 20X	Sb (217.582 nm)	-0.0025 u	34.32	2.0022
	R2404730-002 20X	Se (196.026 nm)	-0.0025 u	83.49	2.9324
	R2404730-002 20X	Si (252.851 nm)	0.2844	0.47	1116.2353
	R2404730-002 20X	Sn (189.925 nm)	0.0000 u	> 100.00	3.0622
	R2404730-002 20X	Sr (216.596 nm)	0.2567	0.27	4517.7912
	R2404730-002 20X	Ti (336.122 nm)	0.0005	22.19	229.2618
	R2404730-002 20X	Tl (190.794 nm)	0.0016	67.40	0.3158
	R2404730-002 20X	V (292.401 nm)	-0.0001 u	> 100.00	-44.0687
	R2404730-002 20X	Y (360.074 nm)	0.99	0.41	483880.01
	R2404730-002 20X	Y_R (360.074 nm)	0.99	0.42	482804.22
	R2404730-002 20X	Zn (213.857 nm)	0.0002	13.05	15.8461
6/10/2024 20:49:11	R2404730-003 20X	Ag (328.068 nm)	-0.0003 u	37.69	-231.1198
	R2404730-003 20X	Al (237.312 nm)	0.0090	17.94	34.4123
	R2404730-003 20X	As (188.980 nm)	-0.0002 u	> 100.00	-2.4186
	R2404730-003 20X	B (249.772 nm)	0.0064	2.09	214.8867
	R2404730-003 20X	Ba (230.424 nm)	0.0407	0.63	2226.1686
	R2404730-003 20X	Be (313.107 nm)	0.0000	25.90	52.9772
	R2404730-003 20X	Ca (317.933 nm)	50.5712	0.46	1804112.3635
	R2404730-003 20X	Cd (214.439 nm)	0.0001	67.03	6.7605
	R2404730-003 20X	Co (230.786 nm)	0.0000 u	> 100.00	-9.0695
	R2404730-003 20X	Cr (267.716 nm)	0.0001	71.17	11.3749
	R2404730-003 20X	Cu (327.395 nm)	0.0003	13.54	-15.2720
	R2404730-003 20X	Fe (234.350 nm)	0.0216	0.86	393.2718
	R2404730-003 20X	K (766.491 nm)	2.5612	1.43	2618.6434

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404730-003 20X	Mg (279.078 nm)	6.2124	0.36	20271.8119
	R2404730-003 20X	Mn (257.610 nm)	0.0133	0.53	4465.5148
	R2404730-003 20X	Mo (202.032 nm)	0.0002	53.74	14.2499
	R2404730-003 20X	Na (588.995 nm)	32.9078	0.18	434529.0071
	R2404730-003 20X	Ni (230.299 nm)	0.0003 u	> 100.00	28.8872
	R2404730-003 20X	Pb (220.353 nm)	0.0005	61.93	10.4667
	R2404730-003 20X	Sb (217.582 nm)	-0.0011 u	> 100.00	4.5264
	R2404730-003 20X	Se (196.026 nm)	-0.0020 u	> 100.00	3.3048
	R2404730-003 20X	Si (252.851 nm)	0.3464	0.50	1352.4507
	R2404730-003 20X	Sn (189.925 nm)	-0.0002 u	> 100.00	2.5115
	R2404730-003 20X	Sr (216.596 nm)	0.3168	0.45	5575.1954
	R2404730-003 20X	Ti (336.122 nm)	0.0006	27.42	236.8283
	R2404730-003 20X	Tl (190.794 nm)	0.0009 u	> 100.00	-0.3699
	R2404730-003 20X	V (292.401 nm)	-0.0001 u	> 100.00	-43.3227
	R2404730-003 20X	Y (360.074 nm)	0.98	0.18	480045.98
	R2404730-003 20X	Y_R (360.074 nm)	0.98	0.18	478999.93
	R2404730-003 20X	Zn (213.857 nm)	0.0001	32.75	5.2542
6/10/2024 20:52:25	R2404730-004 20X	Ag (328.068 nm)	-0.0004 u	51.20	-234.6260
	R2404730-004 20X	Al (237.312 nm)	0.0129	6.37	44.1241
	R2404730-004 20X	As (188.980 nm)	-0.0004 u	> 100.00	-2.7247
	R2404730-004 20X	B (249.772 nm)	0.0031	5.18	107.1394
	R2404730-004 20X	Ba (230.424 nm)	0.0091	1.06	506.2791
	R2404730-004 20X	Be (313.107 nm)	0.0000	20.36	41.4051
	R2404730-004 20X	Ca (317.933 nm)	11.5304	0.44	413459.5111
	R2404730-004 20X	Cd (214.439 nm)	0.0001	76.80	6.0044
	R2404730-004 20X	Co (230.786 nm)	0.0002 u	> 100.00	-6.9100
	R2404730-004 20X	Cr (267.716 nm)	0.0001	> 100.00	9.8231
	R2404730-004 20X	Cu (327.395 nm)	0.0004	44.45	-10.0126
	R2404730-004 20X	Fe (234.350 nm)	0.0193	1.37	351.2672
	R2404730-004 20X	K (766.491 nm)	0.8046	3.18	690.8913
	R2404730-004 20X	Mg (279.078 nm)	1.5882	0.40	5160.2982
	R2404730-004 20X	Mn (257.610 nm)	0.0209	0.58	6984.7012
	R2404730-004 20X	Mo (202.032 nm)	0.0002	8.02	13.5882
	R2404730-004 20X	Na (588.995 nm)	5.7167	0.20	64228.9233
	R2404730-004 20X	Ni (230.299 nm)	-0.0001 u	> 100.00	23.5098
	R2404730-004 20X	Pb (220.353 nm)	0.0007	48.48	11.4086
	R2404730-004 20X	Sb (217.582 nm)	-0.0022 u	> 100.00	2.5319
	R2404730-004 20X	Se (196.026 nm)	-0.0021 u	94.13	3.2271
	R2404730-004 20X	Si (252.851 nm)	0.3209	0.37	1255.2955
	R2404730-004 20X	Sn (189.925 nm)	-0.0001 u	> 100.00	2.8806
	R2404730-004 20X	Sr (216.596 nm)	0.0837	0.68	1472.3386
	R2404730-004 20X	Ti (336.122 nm)	0.0003	31.52	198.7514
	R2404730-004 20X	Tl (190.794 nm)	0.0011 u	> 100.00	-0.0911
	R2404730-004 20X	V (292.401 nm)	0.0000 u	> 100.00	-41.0289
	R2404730-004 20X	Y (360.074 nm)	1.01	0.13	491661.78
	R2404730-004 20X	Y_R (360.074 nm)	1.01	0.13	490598.89
	R2404730-004 20X	Zn (213.857 nm)	0.0002	38.49	11.4869
6/10/2024 20:55:38	R2404730-006 20X	Ag (328.068 nm)	-0.0002 u	41.47	-226.0695
	R2404730-006 20X	Al (237.312 nm)	0.0127	3.76	43.6173
	R2404730-006 20X	As (188.980 nm)	-0.0009 u	52.39	-3.4943
	R2404730-006 20X	B (249.772 nm)	0.0024	4.11	82.2932
	R2404730-006 20X	Ba (230.424 nm)	0.0038	1.91	220.2674
	R2404730-006 20X	Be (313.107 nm)	0.0000	9.13	45.8216
	R2404730-006 20X	Ca (317.933 nm)	8.4741	0.35	304595.4122
	R2404730-006 20X	Cd (214.439 nm)	0.0001	28.05	9.2225
	R2404730-006 20X	Co (230.786 nm)	-0.0001 u	> 100.00	-12.3885
	R2404730-006 20X	Cr (267.716 nm)	0.0001 u	> 100.00	10.0541

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404730-006 20X	Cu (327.395 nm)	0.0002	> 100.00	-18.8173
	R2404730-006 20X	Fe (234.350 nm)	0.0126	0.78	228.3064
	R2404730-006 20X	K (766.491 nm)	0.4306	4.51	280.4595
	R2404730-006 20X	Mg (279.078 nm)	1.3905	0.24	4514.4061
	R2404730-006 20X	Mn (257.610 nm)	0.0105	0.41	3532.8517
	R2404730-006 20X	Mo (202.032 nm)	0.0003	74.94	15.4606
	R2404730-006 20X	Na (588.995 nm)	4.3589	0.12	45738.8139
	R2404730-006 20X	Ni (230.299 nm)	0.0000 u	> 100.00	25.4167
	R2404730-006 20X	Pb (220.353 nm)	0.0005 u	> 100.00	10.4288
	R2404730-006 20X	Sb (217.582 nm)	-0.0029 u	24.24	1.1489
	R2404730-006 20X	Se (196.026 nm)	-0.0005 u	> 100.00	4.4005
	R2404730-006 20X	Si (252.851 nm)	0.2530	0.84	996.6867
	R2404730-006 20X	Sn (189.925 nm)	-0.0006 u	> 100.00	1.4320
	R2404730-006 20X	Sr (216.596 nm)	0.0746	0.46	1312.7120
	R2404730-006 20X	Ti (336.122 nm)	0.0003	25.29	201.7606
	R2404730-006 20X	Tl (190.794 nm)	-0.0012 u	16.44	-2.4169
	R2404730-006 20X	V (292.401 nm)	-0.0001 u	> 100.00	-42.8675
	R2404730-006 20X	Y (360.074 nm)	1.01	0.22	493386.43
	R2404730-006 20X	Y_R (360.074 nm)	1.01	0.22	492318.50
	R2404730-006 20X	Zn (213.857 nm)	0.0001	19.11	6.8514
6/10/2024 20:58:52	R2404758-001 100X	Ag (328.068 nm)	-0.0005 u	27.28	-243.9172
	R2404758-001 100X	Al (237.312 nm)	0.0043	1.80	22.9517
	R2404758-001 100X	As (188.980 nm)	0.0043	8.35	5.2339
	R2404758-001 100X	B (249.772 nm)	0.2439	0.35	7926.0177
	R2404758-001 100X	Ba (230.424 nm)	0.0156	0.69	860.5123
	R2404758-001 100X	Be (313.107 nm)	0.0000	17.59	44.9647
	R2404758-001 100X	Ca (317.933 nm)	2.1093	0.40	77875.8879
	R2404758-001 100X	Cd (214.439 nm)	0.0001	98.28	4.8823
	R2404758-001 100X	Co (230.786 nm)	0.0003	31.55	-3.5447
	R2404758-001 100X	Cr (267.716 nm)	0.0025	3.81	133.4895
	R2404758-001 100X	Cu (327.395 nm)	0.0000 u	> 100.00	-26.9291
	R2404758-001 100X	Fe (234.350 nm)	0.0134	1.86	243.5568
	R2404758-001 100X	K (766.491 nm)	19.1532	0.36	20826.6936
	R2404758-001 100X	Mg (279.078 nm)	2.5075	0.43	8164.4717
	R2404758-001 100X	Mn (257.610 nm)	0.0018	1.67	624.5783
	R2404758-001 100X	Mo (202.032 nm)	0.0029	3.15	42.2221
	R2404758-001 100X	Na (588.995 nm)	86.4219 o	0.01	1163303.9987
	R2404758-001 100X	Ni (230.299 nm)	0.0024	21.58	53.2434
	R2404758-001 100X	Pb (220.353 nm)	0.0008	76.43	11.9557
	R2404758-001 100X	Sb (217.582 nm)	-0.0026 u	56.69	1.6851
	R2404758-001 100X	Se (196.026 nm)	-0.0027 u	62.47	2.7775
	R2404758-001 100X	Si (252.851 nm)	0.2729	0.41	1072.4134
	R2404758-001 100X	Sn (189.925 nm)	-0.0001 u	> 100.00	2.8577
	R2404758-001 100X	Sr (216.596 nm)	0.0350	1.46	614.7231
	R2404758-001 100X	Ti (336.122 nm)	0.0013	7.06	343.4059
	R2404758-001 100X	Tl (190.794 nm)	-0.0001 u	> 100.00	-1.2823
	R2404758-001 100X	V (292.401 nm)	0.0010	25.31	-1.4172
	R2404758-001 100X	Y (360.074 nm)	0.97	0.07	475273.98
	R2404758-001 100X	Y_R (360.074 nm)	0.97	0.07	474193.60
	R2404758-001 100X	Zn (213.857 nm)	0.0010	2.91	62.6306
6/10/2024 21:02:07	R2404765-002 10X	Ag (328.068 nm)	-0.0003 u	32.97	-229.3870
	R2404765-002 10X	Al (237.312 nm)	0.1620	1.08	412.8421
	R2404765-002 10X	As (188.980 nm)	0.0142	10.01	22.0144
	R2404765-002 10X	B (249.772 nm)	0.9196	0.19	29864.5481
	R2404765-002 10X	Ba (230.424 nm)	0.0282	0.19	1546.0988
	R2404765-002 10X	Be (313.107 nm)	0.0000	35.54	39.1155
	R2404765-002 10X	Ca (317.933 nm)	12.4007	0.43	444459.9079

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404765-002 10X	Cd (214.439 nm)	0.0002	34.43	12.8014
	R2404765-002 10X	Co (230.786 nm)	0.0023	5.50	31.1441
	R2404765-002 10X	Cr (267.716 nm)	0.0169	1.02	886.6122
	R2404765-002 10X	Cu (327.395 nm)	0.0444	0.23	1923.5589
	R2404765-002 10X	Fe (234.350 nm)	0.5866	0.30	10681.2457
	R2404765-002 10X	K (766.491 nm)	42.1531	0.06	46066.6824
	R2404765-002 10X	Mg (279.078 nm)	6.5570	0.34	21398.0083
	R2404765-002 10X	Mn (257.610 nm)	0.0629	0.32	21007.8272
	R2404765-002 10X	Mo (202.032 nm)	0.0005	16.48	17.2005
	R2404765-002 10X	Na (588.995 nm)	165.1353 o	0.19	2235253.9123
	R2404765-002 10X	Ni (230.299 nm)	0.0116	1.58	161.0905
	R2404765-002 10X	Pb (220.353 nm)	0.0015	19.11	15.5536
	R2404765-002 10X	Sb (217.582 nm)	0.0003 u	> 100.00	7.0676
	R2404765-002 10X	Se (196.026 nm)	-0.0006 u	> 100.00	4.3573
	R2404765-002 10X	Si (252.851 nm)	1.2909	0.48	4951.4249
	R2404765-002 10X	Sn (189.925 nm)	0.0047	26.68	14.5438
	R2404765-002 10X	Sr (216.596 nm)	0.1260	0.43	2217.1141
	R2404765-002 10X	Ti (336.122 nm)	0.0100	0.38	1606.7074
	R2404765-002 10X	Tl (190.794 nm)	0.0011 u	> 100.00	-0.1256
	R2404765-002 10X	V (292.401 nm)	0.0013	0.88	8.4221
	R2404765-002 10X	Y (360.074 nm)	0.96	0.09	469563.18
	R2404765-002 10X	Y_R (360.074 nm)	0.96	0.09	468482.70
	R2404765-002 10X	Zn (213.857 nm)	0.0586	0.33	3753.8668
6/10/2024 21:05:21	R2404780-001 20X	Ag (328.068 nm)	-0.0004 u	31.52	-239.6596
	R2404780-001 20X	Al (237.312 nm)	0.0145	10.68	48.2347
	R2404780-001 20X	As (188.980 nm)	-0.0001 u	> 100.00	-2.1923
	R2404780-001 20X	B (249.772 nm)	0.0019	11.32	67.4512
	R2404780-001 20X	Ba (230.424 nm)	0.0026	3.07	153.2891
	R2404780-001 20X	Be (313.107 nm)	0.0000	20.24	43.5951
	R2404780-001 20X	Ca (317.933 nm)	4.5786	0.42	165833.0677
	R2404780-001 20X	Cd (214.439 nm)	0.0001	82.78	6.4309
	R2404780-001 20X	Co (230.786 nm)	-0.0001 u	68.78	-12.3585
	R2404780-001 20X	Cr (267.716 nm)	0.0001 u	> 100.00	12.6959
	R2404780-001 20X	Cu (327.395 nm)	0.0003	55.65	-13.5797
	R2404780-001 20X	Fe (234.350 nm)	0.0121	1.76	220.6324
	R2404780-001 20X	K (766.491 nm)	0.3248	6.20	164.4440
	R2404780-001 20X	Mg (279.078 nm)	1.0169	0.46	3293.3609
	R2404780-001 20X	Mn (257.610 nm)	0.0003	4.58	133.0852
	R2404780-001 20X	Mo (202.032 nm)	0.0003	76.98	14.9110
	R2404780-001 20X	Na (588.995 nm)	1.6900	0.60	9392.6939
	R2404780-001 20X	Ni (230.299 nm)	0.0000 u	> 100.00	25.2815
	R2404780-001 20X	Pb (220.353 nm)	0.0003	38.31	9.6556
	R2404780-001 20X	Sb (217.582 nm)	-0.0022 u	> 100.00	2.4670
	R2404780-001 20X	Se (196.026 nm)	0.0003 u	> 100.00	5.0011
	R2404780-001 20X	Si (252.851 nm)	0.1517	0.38	610.6653
	R2404780-001 20X	Sn (189.925 nm)	-0.0007 u	66.02	1.1832
	R2404780-001 20X	Sr (216.596 nm)	0.0453	0.84	797.3682
	R2404780-001 20X	Ti (336.122 nm)	0.0002	34.54	182.8463
	R2404780-001 20X	Tl (190.794 nm)	-0.0008 u	> 100.00	-1.9770
	R2404780-001 20X	V (292.401 nm)	-0.0001 u	> 100.00	-42.6311
	R2404780-001 20X	Y (360.074 nm)	1.02	0.13	496034.78
	R2404780-001 20X	Y_R (360.074 nm)	1.01	0.13	494928.68
	R2404780-001 20X	Zn (213.857 nm)	0.0001	37.10	4.5085
6/10/2024 21:08:35	Continuing Calibration Verification	Ag (328.068 nm)	0.5008	0.06	28159.4432
	Continuing Calibration Verification	Al (237.312 nm)	9.7081	0.09	24010.2795
	Continuing Calibration Verification	As (188.980 nm)	0.9612	0.19	1628.0542
	Continuing Calibration Verification	B (249.772 nm)	2.4025	0.15	78016.1181

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	Ba (230.424 nm)	9.5545	0.20	520225.3395
	Continuing Calibration Verification	Be (313.107 nm)	0.2398	0.23	263236.6728
	Continuing Calibration Verification	Ca (317.933 nm)	25.4356	0.24	908769.0444
	Continuing Calibration Verification	Cd (214.439 nm)	0.4954	0.28	28225.1573
	Continuing Calibration Verification	Co (230.786 nm)	2.4522	0.23	44457.1770
	Continuing Calibration Verification	Cr (267.716 nm)	0.5107	0.26	26553.0192
	Continuing Calibration Verification	Cu (327.395 nm)	1.2120	0.36	53174.3306
	Continuing Calibration Verification	Fe (234.350 nm)	4.9550	0.21	90220.5153
	Continuing Calibration Verification	K (766.491 nm)	23.9546	0.30	26095.6965
	Continuing Calibration Verification	Mg (279.078 nm)	25.0227	0.22	81742.1435
	Continuing Calibration Verification	Mn (257.610 nm)	0.7327	0.22	244718.4370
	Continuing Calibration Verification	Mo (202.032 nm)	2.6253	0.30	27416.9149
	Continuing Calibration Verification	Na (588.995 nm)	25.2390	0.44	330091.2825
	Continuing Calibration Verification	Ni (230.299 nm)	2.0352	0.32	23924.1999
	Continuing Calibration Verification	Pb (220.353 nm)	0.5075	0.29	2657.3731
	Continuing Calibration Verification	Sb (217.582 nm)	4.6857	0.07	8710.5785
	Continuing Calibration Verification	Se (196.026 nm)	0.4706	0.22	347.8325
	Continuing Calibration Verification	Si (252.851 nm)	9.8577	0.37	37593.9372
	Continuing Calibration Verification	Sn (189.925 nm)	4.9199	0.18	12117.7003
	Continuing Calibration Verification	Sr (216.596 nm)	2.4278	0.26	42728.3809
	Continuing Calibration Verification	Ti (336.122 nm)	2.4938	0.11	360448.7814
	Continuing Calibration Verification	Tl (190.794 nm)	0.9644	0.53	941.1493
	Continuing Calibration Verification	V (292.401 nm)	2.4857	0.18	94197.7813
	Continuing Calibration Verification	Y (360.074 nm)	0.98	0.41	478401.66
	Continuing Calibration Verification	Y_R (360.074 nm)	0.98	0.42	477329.65
	Continuing Calibration Verification	Zn (213.857 nm)	0.9761	0.21	62478.2383
6/10/2024 21:11:49	Continuing Calibration Blank	Ag (328.068 nm)	-0.0002 u	67.62	-226.7806
	Continuing Calibration Blank	Al (237.312 nm)	0.0034	52.81	20.7390
	Continuing Calibration Blank	As (188.980 nm)	-0.0002 u	> 100.00	-2.3255
	Continuing Calibration Blank	B (249.772 nm)	0.0017	18.00	61.3879
	Continuing Calibration Blank	Ba (230.424 nm)	0.0009	5.41	61.5698
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	15.67	73.5111
	Continuing Calibration Blank	Ca (317.933 nm)	0.0096	1.04	3083.5551
	Continuing Calibration Blank	Cd (214.439 nm)	0.0001	20.96	10.3780
	Continuing Calibration Blank	Co (230.786 nm)	0.0003	40.67	-3.7683
	Continuing Calibration Blank	Cr (267.716 nm)	0.0001	61.85	12.1463
	Continuing Calibration Blank	Cu (327.395 nm)	0.0004	59.34	-10.7884
	Continuing Calibration Blank	Fe (234.350 nm)	0.0028	21.91	49.6815
	Continuing Calibration Blank	K (766.491 nm)	0.0743	23.60	-110.5225
	Continuing Calibration Blank	Mg (279.078 nm)	0.0043	18.93	-15.6360
	Continuing Calibration Blank	Mn (257.610 nm)	0.0001	26.78	53.8383
	Continuing Calibration Blank	Mo (202.032 nm)	0.0037	35.07	50.9170
	Continuing Calibration Blank	Na (588.995 nm)	0.1080	2.41	-12152.1634
	Continuing Calibration Blank	Ni (230.299 nm)	0.0000 u	> 100.00	25.0191
	Continuing Calibration Blank	Pb (220.353 nm)	0.0009	48.38	12.4360
	Continuing Calibration Blank	Sb (217.582 nm)	0.0026	72.84	11.4839
	Continuing Calibration Blank	Se (196.026 nm)	0.0003 u	> 100.00	5.0224
	Continuing Calibration Blank	Si (252.851 nm)	0.0040	43.23	47.7797
	Continuing Calibration Blank	Sn (189.925 nm)	0.0011	32.67	5.6491
	Continuing Calibration Blank	Sr (216.596 nm)	0.0005	57.50	7.5915
	Continuing Calibration Blank	Ti (336.122 nm)	0.0028	42.69	562.6506
	Continuing Calibration Blank	Tl (190.794 nm)	0.0006	63.86	-0.6626
	Continuing Calibration Blank	V (292.401 nm)	0.0001 u	> 100.00	-36.2321
	Continuing Calibration Blank	Y (360.074 nm)	1.02	0.05	497868.47
	Continuing Calibration Blank	Y_R (360.074 nm)	1.02	0.05	496758.49
	Continuing Calibration Blank	Zn (213.857 nm)	0.0010	3.31	65.9418
6/10/2024 21:15:02	R2404780-002 10X	Ag (328.068 nm)	-0.0004 u	25.93	-236.8111

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404780-002 10X	Al (237.312 nm)	0.0199	3.22	61.4998
	R2404780-002 10X	As (188.980 nm)	-0.0010 u	96.92	-3.6737
	R2404780-002 10X	B (249.772 nm)	0.0030	4.30	103.3357
	R2404780-002 10X	Ba (230.424 nm)	0.0045	0.71	257.6415
	R2404780-002 10X	Be (313.107 nm)	0.0000	31.19	45.0100
	R2404780-002 10X	Ca (317.933 nm)	24.5001	0.30	875446.9340
	R2404780-002 10X	Cd (214.439 nm)	0.0001	73.39	6.1931
	R2404780-002 10X	Co (230.786 nm)	-0.0001 u	71.46	-12.3190
	R2404780-002 10X	Cr (267.716 nm)	0.0001 u	> 100.00	12.6464
	R2404780-002 10X	Cu (327.395 nm)	0.0004	28.69	-11.8720
	R2404780-002 10X	Fe (234.350 nm)	0.0454	0.46	825.6140
	R2404780-002 10X	K (766.491 nm)	1.1235	3.84	1040.8706
	R2404780-002 10X	Mg (279.078 nm)	1.9743	0.26	6421.9211
	R2404780-002 10X	Mn (257.610 nm)	0.0266	0.30	8899.1577
	R2404780-002 10X	Mo (202.032 nm)	0.0008	36.00	20.3807
	R2404780-002 10X	Na (588.995 nm)	13.6357	0.10	172073.4352
	R2404780-002 10X	Ni (230.299 nm)	0.0002	> 100.00	27.5682
	R2404780-002 10X	Pb (220.353 nm)	0.0014	60.03	15.1354
	R2404780-002 10X	Sb (217.582 nm)	-0.0011 u	> 100.00	4.4751
	R2404780-002 10X	Se (196.026 nm)	0.0010 u	> 100.00	5.5268
	R2404780-002 10X	Si (252.851 nm)	0.3020	0.49	1183.2554
	R2404780-002 10X	Sn (189.925 nm)	-0.0001 u	> 100.00	2.8104
	R2404780-002 10X	Sr (216.596 nm)	0.1759	0.51	3094.3394
	R2404780-002 10X	Ti (336.122 nm)	0.0014	17.36	351.8613
	R2404780-002 10X	Tl (190.794 nm)	0.0031	45.47	1.7834
	R2404780-002 10X	V (292.401 nm)	-0.0001 u	> 100.00	-44.8210
	R2404780-002 10X	Y (360.074 nm)	1.00	0.23	489132.91
	R2404780-002 10X	Y_R (360.074 nm)	1.00	0.23	488023.53
	R2404780-002 10X	Zn (213.857 nm)	0.0002	30.94	13.9915
6/10/2024 21:18:16	R2404780-003 10X	Ag (328.068 nm)	-0.0002 u	62.16	-227.1969
	R2404780-003 10X	Al (237.312 nm)	0.0118	6.35	41.5512
	R2404780-003 10X	As (188.980 nm)	-0.0005 u	> 100.00	-2.8913
	R2404780-003 10X	B (249.772 nm)	0.0031	2.38	106.7148
	R2404780-003 10X	Ba (230.424 nm)	0.0025	2.11	148.0855
	R2404780-003 10X	Be (313.107 nm)	0.0000	39.85	63.8147
	R2404780-003 10X	Ca (317.933 nm)	24.8930	0.31	889444.0481
	R2404780-003 10X	Cd (214.439 nm)	0.0000 u	> 100.00	2.7365
	R2404780-003 10X	Co (230.786 nm)	0.0000 u	> 100.00	-10.3651
	R2404780-003 10X	Cr (267.716 nm)	0.0000 u	> 100.00	3.8662
	R2404780-003 10X	Cu (327.395 nm)	0.0003	34.71	-15.0623
	R2404780-003 10X	Fe (234.350 nm)	0.0160	3.75	291.4535
	R2404780-003 10X	K (766.491 nm)	0.9977	3.95	902.8050
	R2404780-003 10X	Mg (279.078 nm)	2.2727	0.19	7397.0610
	R2404780-003 10X	Mn (257.610 nm)	0.0368	0.26	12304.1670
	R2404780-003 10X	Mo (202.032 nm)	0.0002	46.39	14.5384
	R2404780-003 10X	Na (588.995 nm)	14.8076	0.03	188033.4069
	R2404780-003 10X	Ni (230.299 nm)	0.0006 u	87.28	31.8706
	R2404780-003 10X	Pb (220.353 nm)	0.0003 u	> 100.00	9.7418
	R2404780-003 10X	Sb (217.582 nm)	-0.0007 u	> 100.00	5.3773
	R2404780-003 10X	Se (196.026 nm)	0.0004 u	> 100.00	5.0611
	R2404780-003 10X	Si (252.851 nm)	0.2772	0.51	1088.7584
	R2404780-003 10X	Sn (189.925 nm)	-0.0006 u	54.42	1.5271
	R2404780-003 10X	Sr (216.596 nm)	0.1729	0.36	3042.0829
	R2404780-003 10X	Ti (336.122 nm)	0.0008	20.85	265.2852
	R2404780-003 10X	Tl (190.794 nm)	0.0020	81.93	0.7907
	R2404780-003 10X	V (292.401 nm)	-0.0003 u	91.98	-51.8184
	R2404780-003 10X	Y (360.074 nm)	1.00	0.34	488187.87

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404780-003 10X	Y_R (360.074 nm)	1.00	0.34	487079.53
	R2404780-003 10X	Zn (213.857 nm)	0.0000 u	> 100.00	1.0751
6/10/2024 21:21:29	Continuing Calibration Verification1	Ag (328.068 nm)	0.5047	0.09	28374.8756
	Continuing Calibration Verification1	Al (237.312 nm)	9.7811	0.04	24190.6872
	Continuing Calibration Verification1	As (188.980 nm)	0.9658	0.18	1635.8957
	Continuing Calibration Verification1	B (249.772 nm)	2.4186	0.15	78540.2847
	Continuing Calibration Verification1	Ba (230.424 nm)	9.5911	0.45	522216.1433
	Continuing Calibration Verification1	Be (313.107 nm)	0.2417	0.28	265328.1706
	Continuing Calibration Verification1	Ca (317.933 nm)	25.6539	0.24	916546.2040
	Continuing Calibration Verification1	Cd (214.439 nm)	0.4993	0.27	28448.4585
	Continuing Calibration Verification1	Co (230.786 nm)	2.4678	0.36	44739.5392
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5166	0.25	26857.2496
	Continuing Calibration Verification1	Cu (327.395 nm)	1.2217	0.47	53602.0879
	Continuing Calibration Verification1	Fe (234.350 nm)	4.9984	0.24	91009.9411
	Continuing Calibration Verification1	K (766.491 nm)	24.1508	0.29	26310.9683
	Continuing Calibration Verification1	Mg (279.078 nm)	25.2366	0.15	82441.1107
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7392	0.26	246883.6414
	Continuing Calibration Verification1	Mo (202.032 nm)	2.6509	0.39	27683.5895
	Continuing Calibration Verification1	Na (588.995 nm)	25.4494	0.32	332957.3497
	Continuing Calibration Verification1	Ni (230.299 nm)	2.0514	0.18	24114.3296
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5121	0.15	2681.5312
	Continuing Calibration Verification1	Sb (217.582 nm)	4.7177	0.15	8770.0418
	Continuing Calibration Verification1	Se (196.026 nm)	0.4749	0.73	350.9507
	Continuing Calibration Verification1	Si (252.851 nm)	9.9228	0.37	37842.0585
	Continuing Calibration Verification1	Sn (189.925 nm)	4.9603	0.13	12217.0632
	Continuing Calibration Verification1	Sr (216.596 nm)	2.4536	0.32	43181.5896
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5149	0.14	363505.9661
	Continuing Calibration Verification1	Tl (190.794 nm)	0.9738	0.40	950.3423
	Continuing Calibration Verification1	V (292.401 nm)	2.5082	0.24	95050.7346
	Continuing Calibration Verification1	Y (360.074 nm)	0.98	0.47	477201.07
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.98	0.47	476101.43
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9853	0.32	63068.5733
6/10/2024 21:24:43	Continuing Calibration Blank1	Ag (328.068 nm)	-0.0002 u	60.60	-228.6429
	Continuing Calibration Blank1	Al (237.312 nm)	0.0019 u	> 100.00	16.9098
	Continuing Calibration Blank1	As (188.980 nm)	-0.0023 u	36.28	-5.9156
	Continuing Calibration Blank1	B (249.772 nm)	0.0019	12.20	66.9948
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0002	19.07	22.8035
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000	15.35	52.2167
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0037	6.68	2876.4347
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0001	38.44	9.9357
	Continuing Calibration Blank1	Co (230.786 nm)	0.0001 u	> 100.00	-8.1784
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0000 u	> 100.00	8.4832
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0002	94.33	-19.9817
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0019	31.88	33.6233
	Continuing Calibration Blank1	K (766.491 nm)	0.0654	45.74	-120.2629
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0002 u	> 100.00	-29.0355
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0000	7.52	27.2476
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0029	42.69	42.3158
	Continuing Calibration Blank1	Na (588.995 nm)	0.0795	5.62	-12540.4832
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0002 u	> 100.00	27.7402
	Continuing Calibration Blank1	Pb (220.353 nm)	0.0003 u	> 100.00	9.2621
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0022	67.79	10.6687
	Continuing Calibration Blank1	Se (196.026 nm)	0.0010 u	> 100.00	5.5236
	Continuing Calibration Blank1	Si (252.851 nm)	-0.0029 u	23.25	21.6933
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0001 u	> 100.00	3.2599
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0003	56.31	4.3503
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0025	45.61	516.9950

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank1	Tl (190.794 nm)	0.0010	60.94	-0.2227
	Continuing Calibration Blank1	V (292.401 nm)	-0.0001 u	> 100.00	-44.7527
	Continuing Calibration Blank1	Y (360.074 nm)	1.02	0.12	496187.53
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.01	0.12	495057.53
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0000 u	> 100.00	0.7431
6/10/2024 21:27:56	Contract Required Detection Limit	Ag (328.068 nm)	0.0085	1.14	266.5015
	Contract Required Detection Limit	Al (237.312 nm)	0.1953	1.24	495.0393
	Contract Required Detection Limit	As (188.980 nm)	0.0183	6.48	29.0280
	Contract Required Detection Limit	B (249.772 nm)	0.1901	0.18	6176.7006
	Contract Required Detection Limit	Ba (230.424 nm)	0.1938	0.35	10561.0781
	Contract Required Detection Limit	Be (313.107 nm)	0.0049	0.23	5409.9244
	Contract Required Detection Limit	Ca (317.933 nm)	1.0417	0.33	39850.1246
	Contract Required Detection Limit	Cd (214.439 nm)	0.0104	0.27	594.5083
	Contract Required Detection Limit	Co (230.786 nm)	0.0501	0.31	898.8636
	Contract Required Detection Limit	Cr (267.716 nm)	0.0096	2.54	503.5875
	Contract Required Detection Limit	Cu (327.395 nm)	0.0247	1.50	1055.0650
	Contract Required Detection Limit	Fe (234.350 nm)	0.1064	0.80	1936.3985
	Contract Required Detection Limit	K (766.491 nm)	0.9873	1.25	891.3803
	Contract Required Detection Limit	Mg (279.078 nm)	1.0055	0.21	3256.0043
	Contract Required Detection Limit	Mn (257.610 nm)	0.0139	0.20	4669.0528
	Contract Required Detection Limit	Mo (202.032 nm)	0.0265	1.37	288.8061
	Contract Required Detection Limit	Na (588.995 nm)	1.0548	0.37	742.2147
	Contract Required Detection Limit	Ni (230.299 nm)	0.0357	0.81	444.9114
	Contract Required Detection Limit	Pb (220.353 nm)	0.0105	4.27	62.5282
	Contract Required Detection Limit	Sb (217.582 nm)	0.0567	4.51	111.9131
	Contract Required Detection Limit	Se (196.026 nm)	0.0089	16.14	11.2613
	Contract Required Detection Limit	Si (252.851 nm)	0.0497	2.80	222.0521
	Contract Required Detection Limit	Sn (189.925 nm)	0.4979	0.07	1228.9473
	Contract Required Detection Limit	Sr (216.596 nm)	0.0984	0.20	1730.5385
	Contract Required Detection Limit	Ti (336.122 nm)	0.0497	1.12	7341.8627
	Contract Required Detection Limit	Tl (190.794 nm)	0.0203	8.97	18.5997
	Contract Required Detection Limit	V (292.401 nm)	0.0492	0.55	1825.0041
	Contract Required Detection Limit	Y (360.074 nm)	1.01	0.37	495063.41
	Contract Required Detection Limit	Y_R (360.074 nm)	1.01	0.37	493938.68
	Contract Required Detection Limit	Zn (213.857 nm)	0.0172	0.29	1103.9661
6/10/2024 21:31:10	Interference Check Solution A	Ag (328.068 nm)	-0.0004 u	10.46	-239.2207
	Interference Check Solution A	Al (237.312 nm)	248.9250 o	0.14	615345.2057
	Interference Check Solution A	As (188.980 nm)	0.0003 u	> 100.00	-1.4954
	Interference Check Solution A	B (249.772 nm)	0.0936	0.17	3044.7596
	Interference Check Solution A	Ba (230.424 nm)	-0.0006 u	11.60	-20.8041
	Interference Check Solution A	Be (313.107 nm)	0.0002	4.73	253.3312
	Interference Check Solution A	Ca (317.933 nm)	237.2012 o	0.33	8451950.4180
	Interference Check Solution A	Cd (214.439 nm)	-0.0006 u	39.24	-34.5027
	Interference Check Solution A	Co (230.786 nm)	-0.0003 u	86.30	-15.2453
	Interference Check Solution A	Cr (267.716 nm)	0.0036	1.39	192.4402
	Interference Check Solution A	Cu (327.395 nm)	0.0086	3.81	351.1993
	Interference Check Solution A	Fe (234.350 nm)	93.3692 o	0.30	1700072.0720
	Interference Check Solution A	K (766.491 nm)	0.0229 u	> 100.00	-166.9429
	Interference Check Solution A	Mg (279.078 nm)	261.3946 o	0.24	854185.0259
	Interference Check Solution A	Mn (257.610 nm)	0.0011	1.40	401.1990
	Interference Check Solution A	Mo (202.032 nm)	0.0012	45.17	24.0137
	Interference Check Solution A	Na (588.995 nm)	0.0086	44.05	-13505.3312
	Interference Check Solution A	Ni (230.299 nm)	0.0030	9.59	60.1324
	Interference Check Solution A	Pb (220.353 nm)	0.0034	35.74	25.5059
	Interference Check Solution A	Sb (217.582 nm)	-0.0004 u	> 100.00	5.7669
	Interference Check Solution A	Se (196.026 nm)	-0.0042 u	66.51	1.7267
	Interference Check Solution A	Si (252.851 nm)	0.0426	5.27	195.0014

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Interference Check Solution A	Sn (189.925 nm)	0.0021	65.83	8.1415
	Interference Check Solution A	Sr (216.596 nm)	0.0112	0.74	197.1102
	Interference Check Solution A	Ti (336.122 nm)	0.0027	13.92	543.5625
	Interference Check Solution A	Tl (190.794 nm)	-0.0001 u	> 100.00	-1.2770
	Interference Check Solution A	V (292.401 nm)	0.0016	11.16	18.4220
	Interference Check Solution A	Y (360.074 nm)	0.90	0.43	437836.23
	Interference Check Solution A	Y_R (360.074 nm)	0.90	0.43	436815.10
	Interference Check Solution A	Zn (213.857 nm)	0.0133 K	0.77	853.2220 K
6/10/2024 21:34:24	Interference Check Solution AB	Ag (328.068 nm)	0.1996	0.05	11091.0245
	Interference Check Solution AB	Al (237.312 nm)	250.8460 o	0.13	620093.8952
	Interference Check Solution AB	As (188.980 nm)	0.1011	2.11	169.4428
	Interference Check Solution AB	B (249.772 nm)	0.0918	0.45	2986.0660
	Interference Check Solution AB	Ba (230.424 nm)	0.4987	0.30	27162.1207
	Interference Check Solution AB	Be (313.107 nm)	0.5026	0.29	551720.1081
	Interference Check Solution AB	Ca (317.933 nm)	238.5530 o	0.34	8500102.7736
	Interference Check Solution AB	Cd (214.439 nm)	0.9791	0.22	55783.4103
	Interference Check Solution AB	Co (230.786 nm)	0.4839	0.21	8765.6214
	Interference Check Solution AB	Cr (267.716 nm)	0.5216	0.15	27119.9389
	Interference Check Solution AB	Cu (327.395 nm)	0.5419	0.17	23762.1095
	Interference Check Solution AB	Fe (234.350 nm)	93.9719 o	0.27	1711045.9157
	Interference Check Solution AB	K (766.491 nm)	0.0187 u	> 100.00	-171.5271
	Interference Check Solution AB	Mg (279.078 nm)	262.9853 o	0.27	859383.4401
	Interference Check Solution AB	Mn (257.610 nm)	0.4974	0.27	166126.8986
	Interference Check Solution AB	Mo (202.032 nm)	0.0009	58.52	21.3971
	Interference Check Solution AB	Na (588.995 nm)	-0.0032 u	96.21	-13666.2252
	Interference Check Solution AB	Ni (230.299 nm)	0.9891	0.20	11640.6254
	Interference Check Solution AB	Pb (220.353 nm)	0.0523	2.36	281.1395
	Interference Check Solution AB	Sb (217.582 nm)	0.5914	0.55	1105.1994
	Interference Check Solution AB	Se (196.026 nm)	0.0421	7.67	35.4861
	Interference Check Solution AB	Si (252.851 nm)	0.0904	1.96	377.1690
	Interference Check Solution AB	Sn (189.925 nm)	0.0010	36.69	5.5715
	Interference Check Solution AB	Sr (216.596 nm)	0.0113	0.74	197.8950
	Interference Check Solution AB	Ti (336.122 nm)	0.0026	9.01	529.0834
	Interference Check Solution AB	Tl (190.794 nm)	0.1002	1.78	96.6664
	Interference Check Solution AB	V (292.401 nm)	0.5209	0.22	19707.2190
	Interference Check Solution AB	Y (360.074 nm)	0.89	0.25	436797.73
	Interference Check Solution AB	Y_R (360.074 nm)	0.89	0.25	435776.34
	Interference Check Solution AB	Zn (213.857 nm)	1.0313	0.23	66009.8451
6/10/2024 21:37:38	Continuing Calibration Verification1	Ag (328.068 nm)	0.5041	0.16	28341.2603
	Continuing Calibration Verification1	Al (237.312 nm)	9.7842	0.01	24198.4088
	Continuing Calibration Verification1	As (188.980 nm)	0.9705	0.09	1643.8545
	Continuing Calibration Verification1	B (249.772 nm)	2.4124	0.19	78340.3129
	Continuing Calibration Verification1	Ba (230.424 nm)	9.5874	0.17	522014.3395
	Continuing Calibration Verification1	Be (313.107 nm)	0.2418	0.31	265440.8195
	Continuing Calibration Verification1	Ca (317.933 nm)	25.7331	0.29	919366.1988
	Continuing Calibration Verification1	Cd (214.439 nm)	0.4997	0.29	28471.2107
	Continuing Calibration Verification1	Co (230.786 nm)	2.4694	0.15	44770.0115
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5166	0.33	26859.0658
	Continuing Calibration Verification1	Cu (327.395 nm)	1.2204	0.26	53544.0257
	Continuing Calibration Verification1	Fe (234.350 nm)	5.0263	0.31	91518.5359
	Continuing Calibration Verification1	K (766.491 nm)	24.0815	0.24	26234.9670
	Continuing Calibration Verification1	Mg (279.078 nm)	25.2778	0.24	82575.9043
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7387	0.28	246719.2504
	Continuing Calibration Verification1	Mo (202.032 nm)	2.6522	0.31	27697.8811
	Continuing Calibration Verification1	Na (588.995 nm)	25.3375	0.26	331432.4811
	Continuing Calibration Verification1	Ni (230.299 nm)	2.0517	0.25	24118.2415
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5129	0.22	2685.8110

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification1	Sb (217.582 nm)	4.6977	0.30	8732.9420
	Continuing Calibration Verification1	Se (196.026 nm)	0.4733	1.04	349.7689
	Continuing Calibration Verification1	Si (252.851 nm)	9.8748	0.45	37659.0721
	Continuing Calibration Verification1	Sn (189.925 nm)	4.9612	0.21	12219.3407
	Continuing Calibration Verification1	Sr (216.596 nm)	2.4535	0.28	43180.3269
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5147	0.18	363477.7744
	Continuing Calibration Verification1	Tl (190.794 nm)	0.9710	0.33	947.5846
	Continuing Calibration Verification1	V (292.401 nm)	2.5090	0.29	95081.4687
	Continuing Calibration Verification1	Y (360.074 nm)	0.98	0.27	478024.23
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.98	0.27	476916.00
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9814	0.24	62820.7294
6/10/2024 21:40:51	Continuing Calibration Blank1	Ag (328.068 nm)	-0.0004 u	16.62	-236.9669
	Continuing Calibration Blank1	Al (237.312 nm)	0.0020	31.78	17.3380
	Continuing Calibration Blank1	As (188.980 nm)	-0.0001 u	> 100.00	-2.1715
	Continuing Calibration Blank1	B (249.772 nm)	0.0016	30.73	57.1129
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0002	34.18	23.6831
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000	25.25	67.2982
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0051	4.06	2924.1770
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000 u	> 100.00	4.2084
	Continuing Calibration Blank1	Co (230.786 nm)	0.0003	65.62	-4.9037
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0001 u	> 100.00	10.9485
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0001	74.70	-22.0366
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0029	37.41	52.7720
	Continuing Calibration Blank1	K (766.491 nm)	0.0464	41.06	-141.0680
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0011	18.36	-26.3038
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0001	26.11	35.4344
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0030	40.68	43.5246
	Continuing Calibration Blank1	Na (588.995 nm)	0.0562	8.48	-12857.0384
	Continuing Calibration Blank1	Ni (230.299 nm)	-0.0002 u	> 100.00	23.0992
	Continuing Calibration Blank1	Pb (220.353 nm)	0.0000 u	> 100.00	8.1721
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0036	13.69	13.1927
	Continuing Calibration Blank1	Se (196.026 nm)	-0.0011 u	> 100.00	3.9917
	Continuing Calibration Blank1	Si (252.851 nm)	-0.0032 u	50.55	20.5430
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0006 u	> 100.00	4.5864
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0002	78.97	3.6249
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0023	47.39	494.4828
	Continuing Calibration Blank1	Tl (190.794 nm)	0.0004 u	> 100.00	-0.7715
	Continuing Calibration Blank1	V (292.401 nm)	0.0000 u	> 100.00	-42.0940
	Continuing Calibration Blank1	Y (360.074 nm)	1.02	0.11	496691.04
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.02	0.11	495536.91
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0000 u	> 100.00	-0.2042
6/10/2024 21:44:05	PBS-439480	Ag (328.068 nm)	-0.0005 u	14.25	-244.6221
	PBS-439480	Al (237.312 nm)	0.0022	62.12	17.7327
	PBS-439480	As (188.980 nm)	0.0004 u	> 100.00	-1.3038
	PBS-439480	B (249.772 nm)	0.0016	8.48	58.0027
	PBS-439480	Ba (230.424 nm)	0.0000 u	> 100.00	8.8604
	PBS-439480	Be (313.107 nm)	0.0000	37.61	51.6653
	PBS-439480	Ca (317.933 nm)	0.0100	4.54	3100.5250
	PBS-439480	Cd (214.439 nm)	0.0004	22.91	24.8215
	PBS-439480	Co (230.786 nm)	-0.0001 u	> 100.00	-10.8387
	PBS-439480	Cr (267.716 nm)	0.0007	23.96	43.2653
	PBS-439480	Cu (327.395 nm)	0.0002	85.68	-17.0663
	PBS-439480	Fe (234.350 nm)	0.0091	10.58	166.1172
	PBS-439480	K (766.491 nm)	0.0538	39.28	-132.9517
	PBS-439480	Mg (279.078 nm)	0.0016	28.91	-24.6322
	PBS-439480	Mn (257.610 nm)	0.0001	5.66	61.4934
	PBS-439480	Mo (202.032 nm)	0.0008	36.60	20.4819

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	PBS-439480	Na (588.995 nm)	0.0680	6.19	-12696.5735
	PBS-439480	Ni (230.299 nm)	-0.0009 u	24.86	14.3780
	PBS-439480	Pb (220.353 nm)	0.0012 u	> 100.00	14.3569
	PBS-439480	Sb (217.582 nm)	0.0026	65.32	11.3889
	PBS-439480	Se (196.026 nm)	-0.0016 u	> 100.00	3.6138
	PBS-439480	Si (252.851 nm)	0.0062	10.17	56.3397
	PBS-439480	Sn (189.925 nm)	0.0098	9.93	27.2649
	PBS-439480	Sr (216.596 nm)	0.0004	42.59	5.7624
	PBS-439480	Ti (336.122 nm)	0.0009	79.23	286.2852
	PBS-439480	Tl (190.794 nm)	-0.0008 u	> 100.00	-1.9925
	PBS-439480	V (292.401 nm)	0.0001 u	> 100.00	-38.2014
	PBS-439480	Y (360.074 nm)	1.02	0.44	499686.14
	PBS-439480	Y_R (360.074 nm)	1.02	0.44	498528.85
	PBS-439480	Zn (213.857 nm)	-0.0001 u	49.82	-8.5825
6/10/2024 21:47:19	LCSS-439480	Ag (328.068 nm)	0.0475	0.58	2477.6406
	LCSS-439480	Al (237.312 nm)	1.8777	0.12	4653.8275
	LCSS-439480	As (188.980 nm)	0.0360	4.80	59.0363
	LCSS-439480	B (249.772 nm)	0.9122	0.11	29627.0625
	LCSS-439480	Ba (230.424 nm)	1.8856	0.19	102677.2386
	LCSS-439480	Be (313.107 nm)	0.0468	0.28	51384.4037
	LCSS-439480	Ca (317.933 nm)	2.0026	0.32	74076.5722
	LCSS-439480	Cd (214.439 nm)	0.0495	0.44	2823.2282
	LCSS-439480	Co (230.786 nm)	0.4852	0.43	8789.2690
	LCSS-439480	Cr (267.716 nm)	0.2017	0.41	10490.8848
	LCSS-439480	Cu (327.395 nm)	0.2439	0.18	10677.3197
	LCSS-439480	Fe (234.350 nm)	1.0009	0.32	18224.7899
	LCSS-439480	K (766.491 nm)	18.3361	0.32	19929.9475
	LCSS-439480	Mg (279.078 nm)	1.8886	0.29	6142.1442
	LCSS-439480	Mn (257.610 nm)	0.4799	0.28	160267.5561
	LCSS-439480	Mo (202.032 nm)	0.5073	0.30	5307.5242
	LCSS-439480	Na (588.995 nm)	19.3226	0.34	249519.3660
	LCSS-439480	Ni (230.299 nm)	0.5012	0.31	5910.7831
	LCSS-439480	Pb (220.353 nm)	0.5078	0.39	2659.1349
	LCSS-439480	Sb (217.582 nm)	0.4546	0.44	851.0951
	LCSS-439480	Se (196.026 nm)	0.8887	0.41	652.5477
	LCSS-439480	Si (252.851 nm)	-0.0147 u	6.23	-23.5099
	LCSS-439480	Sn (189.925 nm)	4.8149	0.23	11859.1338
	LCSS-439480	Sr (216.596 nm)	1.9463	0.39	34252.7923
	LCSS-439480	Ti (336.122 nm)	0.4883	0.17	70697.7263
	LCSS-439480	Tl (190.794 nm)	1.8688	0.32	1824.8684
	LCSS-439480	V (292.401 nm)	0.4858	0.26	18378.5643
	LCSS-439480	Y (360.074 nm)	1.00	0.36	490504.46
	LCSS-439480	Y_R (360.074 nm)	1.00	0.36	489342.85
	LCSS-439480	Zn (213.857 nm)	0.4739	0.20	30331.6299
6/10/2024 21:50:32	R2404648-001	Ag (328.068 nm)	-0.0004 u	28.14	-239.7894
	R2404648-001	Al (237.312 nm)	40.2163 o	0.06	99425.3810
	R2404648-001	As (188.980 nm)	0.0179	7.16	28.3678
	R2404648-001	B (249.772 nm)	0.0347	0.73	1131.5730
	R2404648-001	Ba (230.424 nm)	0.1670	0.19	9102.6477
	R2404648-001	Be (313.107 nm)	0.0013	0.62	1492.8079
	R2404648-001	Ca (317.933 nm)	2.6964	0.27	98789.6421
	R2404648-001	Cd (214.439 nm)	0.0006	17.59	37.0333
	R2404648-001	Co (230.786 nm)	0.0047	4.60	75.6244
	R2404648-001	Cr (267.716 nm)	0.0412	0.28	2146.4526
	R2404648-001	Cu (327.395 nm)	0.0257	0.50	1099.2380
	R2404648-001	Fe (234.350 nm)	30.6590 o	0.28	558240.1951
	R2404648-001	K (766.491 nm)	1.3829	1.13	1325.5325

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404648-001	Mg (279.078 nm)	2.3602	0.18	7683.1260
	R2404648-001	Mn (257.610 nm)	0.1175	0.17	39273.5329
	R2404648-001	Mo (202.032 nm)	0.0035	14.01	48.1157
	R2404648-001	Na (588.995 nm)	0.1859	2.18	-11091.0503
	R2404648-001	Ni (230.299 nm)	0.0158	2.76	210.2419
	R2404648-001	Pb (220.353 nm)	0.0474	1.16	255.2966
	R2404648-001	Sb (217.582 nm)	-0.0015 u	81.06	3.8686
	R2404648-001	Se (196.026 nm)	0.0001 u	> 100.00	4.8748
	R2404648-001	Si (252.851 nm)	10.0687	0.14	38397.8909
	R2404648-001	Sn (189.925 nm)	0.0117	4.38	31.8549
	R2404648-001	Sr (216.596 nm)	0.0185	0.44	324.7308
	R2404648-001	Ti (336.122 nm)	0.3995	0.15	57879.2274
	R2404648-001	Tl (190.794 nm)	0.0010	83.06	-0.1916
	R2404648-001	V (292.401 nm)	0.0660	0.35	2461.5079
	R2404648-001	Y (360.074 nm)	1.03	0.33	501196.91
	R2404648-001	Y_R (360.074 nm)	1.03	0.33	500016.70
	R2404648-001	Zn (213.857 nm)	0.0519	0.14	3325.5536
6/10/2024 21:53:46	R2404648-001S	Ag (328.068 nm)	0.0467	0.28	2431.9537
	R2404648-001S	Al (237.312 nm)	54.3664 o	0.14	134403.8246
	R2404648-001S	As (188.980 nm)	0.0525	3.06	87.0384
	R2404648-001S	B (249.772 nm)	0.8923	0.15	28979.2642
	R2404648-001S	Ba (230.424 nm)	2.0636	0.41	112369.1832
	R2404648-001S	Be (313.107 nm)	0.0480	0.24	52750.2061
	R2404648-001S	Ca (317.933 nm)	4.8889	0.30	176889.2355
	R2404648-001S	Cd (214.439 nm)	0.0481	0.08	2741.4883
	R2404648-001S	Co (230.786 nm)	0.4825	0.43	8740.0204
	R2404648-001S	Cr (267.716 nm)	0.2397	0.41	12467.9669
	R2404648-001S	Cu (327.395 nm)	0.2673	0.23	11705.9716
	R2404648-001S	Fe (234.350 nm)	24.5195 o	0.31	446452.1571
	R2404648-001S	K (766.491 nm)	19.7093	0.11	21436.8630
	R2404648-001S	Mg (279.078 nm)	4.7687	0.21	15553.9413
	R2404648-001S	Mn (257.610 nm)	0.6045	0.29	201882.9108
	R2404648-001S	Mo (202.032 nm)	0.4896	0.37	5122.3845
	R2404648-001S	Na (588.995 nm)	19.6224	0.15	253602.3430
	R2404648-001S	Ni (230.299 nm)	0.5155	0.24	6078.5857
	R2404648-001S	Pb (220.353 nm)	0.5385	0.22	2819.0914
	R2404648-001S	Sb (217.582 nm)	0.3317	0.69	622.7542
	R2404648-001S	Se (196.026 nm)	0.8739	0.42	641.7842
	R2404648-001S	Si (252.851 nm)	12.2760	0.06	46808.5575
	R2404648-001S	Sn (189.925 nm)	4.7883	0.30	11793.6372
	R2404648-001S	Sr (216.596 nm)	1.9484	0.38	34290.1628
	R2404648-001S	Ti (336.122 nm)	0.8337	0.17	120610.4245
	R2404648-001S	Tl (190.794 nm)	1.8277	0.22	1784.7421
	R2404648-001S	V (292.401 nm)	0.5403	0.31	20444.9515
	R2404648-001S	Y (360.074 nm)	1.00	0.46	490553.77
	R2404648-001S	Y_R (360.074 nm)	1.00	0.46	489379.66
	R2404648-001S	Zn (213.857 nm)	0.5251	0.27	33613.6669
6/10/2024 21:56:59	R2404648-001SD	Ag (328.068 nm)	0.0470	0.25	2446.2699
	R2404648-001SD	Al (237.312 nm)	52.7106 o	0.02	130310.9214
	R2404648-001SD	As (188.980 nm)	0.0543	5.61	90.1304
	R2404648-001SD	B (249.772 nm)	0.9005	0.08	29245.0582
	R2404648-001SD	Ba (230.424 nm)	2.0745	0.16	112961.5073
	R2404648-001SD	Be (313.107 nm)	0.0486	0.24	53350.6602
	R2404648-001SD	Ca (317.933 nm)	5.5690	0.32	201111.9196
	R2404648-001SD	Cd (214.439 nm)	0.0486	0.34	2770.7645
	R2404648-001SD	Co (230.786 nm)	0.4848	0.23	8782.1107
	R2404648-001SD	Cr (267.716 nm)	0.2411	0.23	12538.6415

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404648-001SD	Cu (327.395 nm)	0.2706	0.11	11848.9984
	R2404648-001SD	Fe (234.350 nm)	24.1558 o	0.27	439829.3090
	R2404648-001SD	K (766.491 nm)	19.8698	0.32	21613.0801
	R2404648-001SD	Mg (279.078 nm)	4.7378	0.17	15452.9461
	R2404648-001SD	Mn (257.610 nm)	0.6417	0.26	214327.8171
	R2404648-001SD	Mo (202.032 nm)	0.4927	0.42	5155.1986
	R2404648-001SD	Na (588.995 nm)	19.7703	0.27	255617.2183
	R2404648-001SD	Ni (230.299 nm)	0.5177	0.21	6105.0057
	R2404648-001SD	Pb (220.353 nm)	0.5490	0.22	2874.2931
	R2404648-001SD	Sb (217.582 nm)	0.3371	0.33	632.7286
	R2404648-001SD	Se (196.026 nm)	0.8739	0.41	641.8131
	R2404648-001SD	Si (252.851 nm)	12.4124	0.01	47328.3531
	R2404648-001SD	Sn (189.925 nm)	4.7988	0.32	11819.4723
	R2404648-001SD	Sr (216.596 nm)	1.9564	0.38	34431.9043
	R2404648-001SD	Ti (336.122 nm)	0.8662	0.15	125303.1072
	R2404648-001SD	Tl (190.794 nm)	1.8379	0.13	1794.7500
	R2404648-001SD	V (292.401 nm)	0.5425	0.14	20527.4918
	R2404648-001SD	Y (360.074 nm)	1.00	0.33	490603.00
	R2404648-001SD	Y_R (360.074 nm)	1.00	0.33	489419.78
	R2404648-001SD	Zn (213.857 nm)	0.5275	0.18	33764.0351
6/10/2024 22:00:13	R2404648-001A	Ag (328.068 nm)	0.0459	0.41	2388.3455
	R2404648-001A	Al (237.312 nm)	41.1458 o	0.02	101723.0770
	R2404648-001A	As (188.980 nm)	0.0521	3.42	86.3554
	R2404648-001A	B (249.772 nm)	0.9265	0.24	30091.2309
	R2404648-001A	Ba (230.424 nm)	2.0114	0.28	109525.4817
	R2404648-001A	Be (313.107 nm)	0.0473	0.31	51958.7185
	R2404648-001A	Ca (317.933 nm)	4.7304	0.35	171241.0245
	R2404648-001A	Cd (214.439 nm)	0.0475	0.38	2710.6142
	R2404648-001A	Co (230.786 nm)	0.4742	0.42	8590.1061
	R2404648-001A	Cr (267.716 nm)	0.2351	0.32	12227.7159
	R2404648-001A	Cu (327.395 nm)	0.2602	0.10	11394.7461
	R2404648-001A	Fe (234.350 nm)	30.8024 o	0.31	560851.2309
	R2404648-001A	K (766.491 nm)	19.4640	0.14	21167.6788
	R2404648-001A	Mg (279.078 nm)	4.1606	0.32	13566.6712
	R2404648-001A	Mn (257.610 nm)	0.5857	0.30	195613.1576
	R2404648-001A	Mo (202.032 nm)	0.4953	0.25	5181.9911
	R2404648-001A	Na (588.995 nm)	19.1983	0.29	247827.0620
	R2404648-001A	Ni (230.299 nm)	0.5031	0.39	5933.0143
	R2404648-001A	Pb (220.353 nm)	0.5330	0.36	2790.3751
	R2404648-001A	Sb (217.582 nm)	0.4429	0.80	829.2982
	R2404648-001A	Se (196.026 nm)	0.8777	0.31	644.5453
	R2404648-001A	Si (252.851 nm)	9.9125	0.09	37802.8631
	R2404648-001A	Sn (189.925 nm)	4.7273	0.29	11643.3821
	R2404648-001A	Sr (216.596 nm)	1.9189	0.37	33770.7497
	R2404648-001A	Ti (336.122 nm)	0.8656	0.19	125209.1440
	R2404648-001A	Tl (190.794 nm)	1.8002	0.38	1757.9220
	R2404648-001A	V (292.401 nm)	0.5346	0.26	20227.2795
	R2404648-001A	Y (360.074 nm)	1.00	0.28	490136.00
	R2404648-001A	Y_R (360.074 nm)	1.00	0.28	488940.08
	R2404648-001A	Zn (213.857 nm)	0.5117	0.24	32754.8952
6/10/2024 22:03:27	R2404648-001L 5X	Ag (328.068 nm)	-0.0004 u	47.16	-235.4766
	R2404648-001L 5X	Al (237.312 nm)	8.5656	0.14	21186.0585
	R2404648-001L 5X	As (188.980 nm)	0.0036	32.17	4.0406
	R2404648-001L 5X	B (249.772 nm)	0.0077	3.11	255.9086
	R2404648-001L 5X	Ba (230.424 nm)	0.0346	0.57	1892.6408
	R2404648-001L 5X	Be (313.107 nm)	0.0003	0.37	362.0918
	R2404648-001L 5X	Ca (317.933 nm)	0.5718	0.36	23111.8988

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404648-001L 5X	Cd (214.439 nm)	0.0002	19.01	15.6620
	R2404648-001L 5X	Co (230.786 nm)	0.0010	32.21	8.0800
	R2404648-001L 5X	Cr (267.716 nm)	0.0085	0.62	448.5841
	R2404648-001L 5X	Cu (327.395 nm)	0.0054	1.42	210.2367
	R2404648-001L 5X	Fe (234.350 nm)	6.4383	0.33	117229.1317
	R2404648-001L 5X	K (766.491 nm)	0.3510	3.87	193.1701
	R2404648-001L 5X	Mg (279.078 nm)	0.5024	0.34	1611.9791
	R2404648-001L 5X	Mn (257.610 nm)	0.0244	0.40	8163.9773
	R2404648-001L 5X	Mo (202.032 nm)	0.0017	43.89	29.6686
	R2404648-001L 5X	Na (588.995 nm)	0.0907	3.98	-12387.7869
	R2404648-001L 5X	Ni (230.299 nm)	0.0033	15.41	64.5735
	R2404648-001L 5X	Pb (220.353 nm)	0.0106	8.42	63.3926
	R2404648-001L 5X	Sb (217.582 nm)	-0.0039 u	16.63	-0.7147
	R2404648-001L 5X	Se (196.026 nm)	-0.0006 u	64.66	4.3174
	R2404648-001L 5X	Si (252.851 nm)	2.1598	0.32	8262.1372
	R2404648-001L 5X	Sn (189.925 nm)	0.0023	32.06	8.5933
	R2404648-001L 5X	Sr (216.596 nm)	0.0040	1.85	69.2818
	R2404648-001L 5X	Ti (336.122 nm)	0.0817	0.77	11959.3814
	R2404648-001L 5X	Tl (190.794 nm)	0.0018	53.28	0.5318
	R2404648-001L 5X	V (292.401 nm)	0.0132	0.86	460.2502
	R2404648-001L 5X	Y (360.074 nm)	1.03	0.08	504068.16
	R2404648-001L 5X	Y_R (360.074 nm)	1.03	0.09	502845.75
	R2404648-001L 5X	Zn (213.857 nm)	0.0111	0.79	710.9045
6/10/2024 22:06:41	R2404648-002	Ag (328.068 nm)	-0.0005 u	7.65	-241.3216
	R2404648-002	Al (237.312 nm)	41.9280 o	0.08	103656.7326
	R2404648-002	As (188.980 nm)	0.0159	3.39	24.8590
	R2404648-002	B (249.772 nm)	0.0203	0.75	663.3925
	R2404648-002	Ba (230.424 nm)	0.1483	0.34	8083.7269
	R2404648-002	Be (313.107 nm)	0.0007	0.93	781.3068
	R2404648-002	Ca (317.933 nm)	1.5309	0.31	57275.1646
	R2404648-002	Cd (214.439 nm)	0.0004	10.75	25.0470
	R2404648-002	Co (230.786 nm)	0.0037	2.34	56.8353
	R2404648-002	Cr (267.716 nm)	0.0292	0.22	1521.2319
	R2404648-002	Cu (327.395 nm)	0.0200	1.98	850.1927
	R2404648-002	Fe (234.350 nm)	16.3994 o	0.29	298601.5646
	R2404648-002	K (766.491 nm)	1.3315	4.01	1269.1501
	R2404648-002	Mg (279.078 nm)	1.6001	0.33	5199.0966
	R2404648-002	Mn (257.610 nm)	0.1199	0.28	40050.2621
	R2404648-002	Mo (202.032 nm)	0.0019	21.60	31.4237
	R2404648-002	Na (588.995 nm)	0.1221	0.38	-11960.3065
	R2404648-002	Ni (230.299 nm)	0.0124	3.62	170.3795
	R2404648-002	Pb (220.353 nm)	0.0437	1.86	236.0362
	R2404648-002	Sb (217.582 nm)	-0.0011 u	32.78	4.6059
	R2404648-002	Se (196.026 nm)	0.0029	28.62	6.8688
	R2404648-002	Si (252.851 nm)	11.2617	0.14	42943.8424
	R2404648-002	Sn (189.925 nm)	0.0110	16.40	30.1147
	R2404648-002	Sr (216.596 nm)	0.0150	1.27	264.1343
	R2404648-002	Ti (336.122 nm)	0.4281	0.18	61999.6031
	R2404648-002	Tl (190.794 nm)	0.0019	44.16	0.6067
	R2404648-002	V (292.401 nm)	0.0449	0.23	1663.4121
	R2404648-002	Y (360.074 nm)	1.02	0.43	498411.97
	R2404648-002	Y_R (360.074 nm)	1.02	0.43	497200.46
	R2404648-002	Zn (213.857 nm)	0.0392	0.45	2507.5323
6/10/2024 22:09:55	R2404648-003	Ag (328.068 nm)	-0.0004 u	42.99	-239.4953
	R2404648-003	Al (237.312 nm)	18.9708	0.10	46907.4225
	R2404648-003	As (188.980 nm)	0.0104	19.23	15.6064
	R2404648-003	B (249.772 nm)	0.0116	2.07	381.1485

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404648-003	Ba (230.424 nm)	0.0751	0.16	4099.7977
	R2404648-003	Be (313.107 nm)	0.0003	2.52	402.7360
	R2404648-003	Ca (317.933 nm)	0.5192	0.27	21235.5645
	R2404648-003	Cd (214.439 nm)	0.0003	3.41	21.6770
	R2404648-003	Co (230.786 nm)	0.0022	3.02	30.4482
	R2404648-003	Cr (267.716 nm)	0.0166	0.27	869.8857
	R2404648-003	Cu (327.395 nm)	0.0146	1.30	611.8161
	R2404648-003	Fe (234.350 nm)	9.1151	0.33	165967.0560
	R2404648-003	K (766.491 nm)	0.8490	0.41	739.6622
	R2404648-003	Mg (279.078 nm)	0.9946	0.43	3220.3599
	R2404648-003	Mn (257.610 nm)	0.0744	0.31	24861.0766
	R2404648-003	Mo (202.032 nm)	0.0010	4.46	22.6513
	R2404648-003	Na (588.995 nm)	0.0790	5.21	-12547.1364
	R2404648-003	Ni (230.299 nm)	0.0076	1.48	114.0357
	R2404648-003	Pb (220.353 nm)	0.0258	1.86	142.4583
	R2404648-003	Sb (217.582 nm)	-0.0006 u	> 100.00	5.4526
	R2404648-003	Se (196.026 nm)	0.0013 u	> 100.00	5.6901
	R2404648-003	Si (252.851 nm)	6.3761	0.04	24327.7403
	R2404648-003	Sn (189.925 nm)	0.0109	17.37	29.8475
	R2404648-003	Sr (216.596 nm)	0.0079	2.93	138.4504
	R2404648-003	Ti (336.122 nm)	0.2650	0.43	38439.7424
	R2404648-003	Tl (190.794 nm)	0.0001 u	> 100.00	-1.1366
	R2404648-003	V (292.401 nm)	0.0231	1.35	833.8498
	R2404648-003	Y (360.074 nm)	1.02	0.31	500555.85
	R2404648-003	Y_R (360.074 nm)	1.02	0.31	499345.45
	R2404648-003	Zn (213.857 nm)	0.0215	0.09	1377.2504
6/10/2024 22:13:09	R2404648-004	Ag (328.068 nm)	-0.0007 u	17.51	-253.1388
	R2404648-004	Al (237.312 nm)	56.4585 o	0.04	139575.4170
	R2404648-004	As (188.980 nm)	0.0126	11.64	19.4127
	R2404648-004	B (249.772 nm)	0.0261	0.13	851.9756
	R2404648-004	Ba (230.424 nm)	0.1782	0.13	9715.2764
	R2404648-004	Be (313.107 nm)	0.0009	0.86	962.8482
	R2404648-004	Ca (317.933 nm)	1.8438	0.25	68418.2926
	R2404648-004	Cd (214.439 nm)	0.0003	7.23	18.7860
	R2404648-004	Co (230.786 nm)	0.0038	4.87	59.0856
	R2404648-004	Cr (267.716 nm)	0.0426	0.52	2219.3069
	R2404648-004	Cu (327.395 nm)	0.0138	0.42	579.4176
	R2404648-004	Fe (234.350 nm)	21.9887 o	0.24	400370.8020
	R2404648-004	K (766.491 nm)	2.1633	1.33	2181.9908
	R2404648-004	Mg (279.078 nm)	2.0905	0.11	6801.9431
	R2404648-004	Mn (257.610 nm)	0.0952	0.20	31826.4161
	R2404648-004	Mo (202.032 nm)	0.0017	13.00	30.2348
	R2404648-004	Na (588.995 nm)	0.1097	4.10	-12129.4930
	R2404648-004	Ni (230.299 nm)	0.0188	0.59	246.4234
	R2404648-004	Pb (220.353 nm)	0.0594	1.25	317.8719
	R2404648-004	Sb (217.582 nm)	-0.0014 u	90.94	4.0344
	R2404648-004	Se (196.026 nm)	0.0001 u	> 100.00	4.8240
	R2404648-004	Si (252.851 nm)	10.7728	0.03	41080.8302
	R2404648-004	Sn (189.925 nm)	0.0121	0.96	32.8036
	R2404648-004	Sr (216.596 nm)	0.0145	1.59	255.0691
	R2404648-004	Ti (336.122 nm)	0.3596	0.26	52108.8655
	R2404648-004	Tl (190.794 nm)	0.0009 u	> 100.00	-0.3045
	R2404648-004	V (292.401 nm)	0.0632	0.51	2356.9928
	R2404648-004	Y (360.074 nm)	1.02	0.43	498357.77
	R2404648-004	Y_R (360.074 nm)	1.02	0.43	497162.53
	R2404648-004	Zn (213.857 nm)	0.0550	0.02	3521.0573
6/10/2024 22:16:23	Continuing Calibration Verification1	Ag (328.068 nm)	0.5036	0.18	28315.0044

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification1	Al (237.312 nm)	9.7249	0.13	24051.8275
	Continuing Calibration Verification1	As (188.980 nm)	0.9635	0.52	1631.9220
	Continuing Calibration Verification1	B (249.772 nm)	2.4007	0.27	77959.2987
	Continuing Calibration Verification1	Ba (230.424 nm)	9.5370	0.25	519271.5824
	Continuing Calibration Verification1	Be (313.107 nm)	0.2413	0.33	264834.1220
	Continuing Calibration Verification1	Ca (317.933 nm)	25.6900	0.39	917832.8732
	Continuing Calibration Verification1	Cd (214.439 nm)	0.4996	0.38	28464.4868
	Continuing Calibration Verification1	Co (230.786 nm)	2.4603	0.22	44604.1113
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5170	0.41	26881.5899
	Continuing Calibration Verification1	Cu (327.395 nm)	1.2111	0.25	53135.1897
	Continuing Calibration Verification1	Fe (234.350 nm)	5.0095	0.27	91213.2642
	Continuing Calibration Verification1	K (766.491 nm)	24.0004	0.08	26145.9239
	Continuing Calibration Verification1	Mg (279.078 nm)	25.2986	0.32	82643.8755
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7382	0.31	246529.7138
	Continuing Calibration Verification1	Mo (202.032 nm)	2.6524	0.41	27699.9143
	Continuing Calibration Verification1	Na (588.995 nm)	25.2454	0.22	330179.3939
	Continuing Calibration Verification1	Ni (230.299 nm)	2.0507	0.26	24106.2670
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5133	0.15	2687.8721
	Continuing Calibration Verification1	Sb (217.582 nm)	4.6809	0.31	8701.6419
	Continuing Calibration Verification1	Se (196.026 nm)	0.4715	1.49	348.4444
	Continuing Calibration Verification1	Si (252.851 nm)	9.8448	0.52	37545.0076
	Continuing Calibration Verification1	Sn (189.925 nm)	4.9569	0.21	12208.6950
	Continuing Calibration Verification1	Sr (216.596 nm)	2.4569	0.58	43238.9184
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5076	0.18	362440.8300
	Continuing Calibration Verification1	Tl (190.794 nm)	0.9672	0.28	943.9483
	Continuing Calibration Verification1	V (292.401 nm)	2.5097	0.28	95105.9478
	Continuing Calibration Verification1	Y (360.074 nm)	0.98	0.18	477094.49
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.98	0.18	475914.56
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9825	0.33	62886.1538
6/10/2024 22:19:37	Continuing Calibration Blank1	Ag (328.068 nm)	-0.0005 u	34.46	-241.9290
	Continuing Calibration Blank1	Al (237.312 nm)	0.0028	44.33	19.0913
	Continuing Calibration Blank1	As (188.980 nm)	0.0006 u	> 100.00	-1.0035
	Continuing Calibration Blank1	B (249.772 nm)	0.0014	14.56	51.0418
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0003	25.66	30.4006
	Continuing Calibration Blank1	Be (313.107 nm)	0.0001	16.35	76.8759
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0053	1.83	2930.5863
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0001	49.85	8.4522
	Continuing Calibration Blank1	Co (230.786 nm)	-0.0001 u	> 100.00	-11.6937
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0001 u	> 100.00	8.7688
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0004	70.42	-8.4233
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0025	29.52	45.8892
	Continuing Calibration Blank1	K (766.491 nm)	0.0475	16.37	-139.8828
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0026	34.05	-21.4384
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0000	44.48	33.8925
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0031	35.48	44.4890
	Continuing Calibration Blank1	Na (588.995 nm)	0.0336	19.76	-13165.8624
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0001 u	> 100.00	25.9830
	Continuing Calibration Blank1	Pb (220.353 nm)	0.0008	41.24	12.3407
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0035	39.77	12.9989
	Continuing Calibration Blank1	Se (196.026 nm)	0.0003 u	> 100.00	5.0327
	Continuing Calibration Blank1	Si (252.851 nm)	-0.0044 u	24.28	15.9630
	Continuing Calibration Blank1	Sn (189.925 nm)	-0.0001 u	> 100.00	2.6743
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0003	48.82	4.9048
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0026	44.50	528.1880
	Continuing Calibration Blank1	Tl (190.794 nm)	0.0012 u	> 100.00	0.0019
	Continuing Calibration Blank1	V (292.401 nm)	0.0000 u	> 100.00	-38.8571
	Continuing Calibration Blank1	Y (360.074 nm)	1.02	0.09	497610.18

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.02	0.09	496371.22
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0001	90.68	5.2096
6/10/2024 22:22:50	R2404648-005	Ag (328.068 nm)	-0.0004 u	32.22	-235.6832
	R2404648-005	Al (237.312 nm)	57.4649 o	0.11	142063.3551
	R2404648-005	As (188.980 nm)	0.0170	15.57	26.8295
	R2404648-005	B (249.772 nm)	0.0394	0.14	1284.3231
	R2404648-005	Ba (230.424 nm)	0.1364	0.25	7435.8308
	R2404648-005	Be (313.107 nm)	0.0011	0.30	1175.0600
	R2404648-005	Ca (317.933 nm)	4.3393	0.30	157311.4508
	R2404648-005	Cd (214.439 nm)	0.0004	14.62	25.0141
	R2404648-005	Co (230.786 nm)	0.0033	9.41	49.5732
	R2404648-005	Cr (267.716 nm)	0.0569	0.46	2961.3785
	R2404648-005	Cu (327.395 nm)	0.0131	2.06	549.5526
	R2404648-005	Fe (234.350 nm)	32.5379 o	0.29	592451.7963
	R2404648-005	K (766.491 nm)	2.6221	1.09	2685.4513
	R2404648-005	Mg (279.078 nm)	2.5801	0.26	8401.8544
	R2404648-005	Mn (257.610 nm)	0.0883	0.20	29511.2061
	R2404648-005	Mo (202.032 nm)	0.0024	31.97	37.1173
	R2404648-005	Na (588.995 nm)	0.1296	1.68	-11857.9660
	R2404648-005	Ni (230.299 nm)	0.0141	2.14	190.5438
	R2404648-005	Pb (220.353 nm)	0.0659	2.25	351.7125
	R2404648-005	Sb (217.582 nm)	0.0009	80.07	8.2894
	R2404648-005	Se (196.026 nm)	-0.0011 u	> 100.00	3.9559
	R2404648-005	Si (252.851 nm)	11.7756	0.16	44901.8523
	R2404648-005	Sn (189.925 nm)	0.0120	0.80	32.6110
	R2404648-005	Sr (216.596 nm)	0.0164	1.19	288.3405
	R2404648-005	Ti (336.122 nm)	0.3839	0.33	55614.1183
	R2404648-005	Tl (190.794 nm)	0.0007 u	> 100.00	-0.5078
	R2404648-005	V (292.401 nm)	0.1420	0.13	5344.7820
	R2404648-005	Y (360.074 nm)	1.02	0.48	500103.45
	R2404648-005	Y_R (360.074 nm)	1.02	0.48	498881.12
	R2404648-005	Zn (213.857 nm)	0.0503	0.07	3218.0333
6/10/2024 22:26:04	R2404648-006	Ag (328.068 nm)	-0.0005 u	33.23	-245.4660
	R2404648-006	Al (237.312 nm)	46.3920 o	0.05	114691.5814
	R2404648-006	As (188.980 nm)	0.0161	7.25	25.2983
	R2404648-006	B (249.772 nm)	0.0437	0.41	1424.7671
	R2404648-006	Ba (230.424 nm)	0.2140	0.23	11663.4638
	R2404648-006	Be (313.107 nm)	0.0011	1.40	1191.0514
	R2404648-006	Ca (317.933 nm)	1.2208	0.29	46226.7995
	R2404648-006	Cd (214.439 nm)	0.0006	0.26	33.5593
	R2404648-006	Co (230.786 nm)	0.0078	1.77	131.7104
	R2404648-006	Cr (267.716 nm)	0.0493	0.35	2567.5404
	R2404648-006	Cu (327.395 nm)	0.0191	1.15	811.3419
	R2404648-006	Fe (234.350 nm)	40.2671 o	0.34	733185.1623
	R2404648-006	K (766.491 nm)	2.0952	2.07	2107.2043
	R2404648-006	Mg (279.078 nm)	2.5292	0.23	8235.5502
	R2404648-006	Mn (257.610 nm)	0.1651	0.27	55159.1984
	R2404648-006	Mo (202.032 nm)	0.0023	12.71	36.2537
	R2404648-006	Na (588.995 nm)	0.1066	2.39	-12170.9802
	R2404648-006	Ni (230.299 nm)	0.0192	1.87	250.3871
	R2404648-006	Pb (220.353 nm)	0.0521	0.53	279.9479
	R2404648-006	Sb (217.582 nm)	0.0004 u	> 100.00	7.3946
	R2404648-006	Se (196.026 nm)	0.0002 u	> 100.00	4.9305
	R2404648-006	Si (252.851 nm)	10.8853	0.05	41509.6804
	R2404648-006	Sn (189.925 nm)	0.0125	5.54	33.6815
	R2404648-006	Sr (216.596 nm)	0.0149	1.66	262.3052
	R2404648-006	Ti (336.122 nm)	0.5643	0.23	81678.1791

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404648-006	Tl (190.794 nm)	-0.0005 u	> 100.00	-1.6757
	R2404648-006	V (292.401 nm)	0.0810	0.57	3028.7122
	R2404648-006	Y (360.074 nm)	1.04	0.45	505933.81
	R2404648-006	Y_R (360.074 nm)	1.03	0.45	504699.84
	R2404648-006	Zn (213.857 nm)	0.0558	0.17	3572.6968
6/10/2024 22:29:17	R2404648-007	Ag (328.068 nm)	-0.0005 u	9.40	-240.9153
	R2404648-007	Al (237.312 nm)	33.6103 o	0.03	83095.5643
	R2404648-007	As (188.980 nm)	0.0114	8.28	17.3407
	R2404648-007	B (249.772 nm)	0.0180	0.87	591.5111
	R2404648-007	Ba (230.424 nm)	0.1739	0.22	9477.6103
	R2404648-007	Be (313.107 nm)	0.0008	1.71	859.2096
	R2404648-007	Ca (317.933 nm)	2.6532	0.28	97250.1600
	R2404648-007	Cd (214.439 nm)	0.0006	10.77	37.4424
	R2404648-007	Co (230.786 nm)	0.0040	5.70	63.7279
	R2404648-007	Cr (267.716 nm)	0.0276	0.36	1439.0285
	R2404648-007	Cu (327.395 nm)	0.0136	1.10	568.6286
	R2404648-007	Fe (234.350 nm)	14.2234 o	0.29	258980.5647
	R2404648-007	K (766.491 nm)	1.2587	1.21	1189.3140
	R2404648-007	Mg (279.078 nm)	1.6172	0.24	5255.0407
	R2404648-007	Mn (257.610 nm)	0.1876	0.17	62683.1062
	R2404648-007	Mo (202.032 nm)	0.0015	16.76	27.6838
	R2404648-007	Na (588.995 nm)	0.1118	3.30	-12100.2214
	R2404648-007	Ni (230.299 nm)	0.0147	1.74	197.6469
	R2404648-007	Pb (220.353 nm)	0.0601	1.18	321.9196
	R2404648-007	Sb (217.582 nm)	0.0001 u	> 100.00	6.6959
	R2404648-007	Se (196.026 nm)	0.0013	87.31	5.7371
	R2404648-007	Si (252.851 nm)	8.7202	0.06	33259.6724
	R2404648-007	Sn (189.925 nm)	0.0115	7.68	31.2607
	R2404648-007	Sr (216.596 nm)	0.0203	0.76	357.1412
	R2404648-007	Ti (336.122 nm)	0.3301	0.27	47849.8693
	R2404648-007	Tl (190.794 nm)	0.0004 u	> 100.00	-0.8507
	R2404648-007	V (292.401 nm)	0.0430	0.44	1589.0794
	R2404648-007	Y (360.074 nm)	1.03	0.33	503255.45
	R2404648-007	Y_R (360.074 nm)	1.03	0.33	502013.57
	R2404648-007	Zn (213.857 nm)	0.0566	0.21	3626.1288
6/10/2024 22:32:31	R2404648-008	Ag (328.068 nm)	-0.0004 u	19.94	-239.9136
	R2404648-008	Al (237.312 nm)	66.5187 o	0.11	164443.9106
	R2404648-008	As (188.980 nm)	0.0211	4.06	33.8062
	R2404648-008	B (249.772 nm)	0.0440	0.19	1434.9720
	R2404648-008	Ba (230.424 nm)	0.3173	0.30	17286.1416
	R2404648-008	Be (313.107 nm)	0.0021	0.31	2285.3880
	R2404648-008	Ca (317.933 nm)	2.8739	0.36	105111.2710
	R2404648-008	Cd (214.439 nm)	0.0003	14.87	21.4813
	R2404648-008	Co (230.786 nm)	0.0066	3.69	109.8848
	R2404648-008	Cr (267.716 nm)	0.0607	0.28	3159.9843
	R2404648-008	Cu (327.395 nm)	0.0268	0.91	1148.2714
	R2404648-008	Fe (234.350 nm)	38.3059 o	0.39	697475.5900
	R2404648-008	K (766.491 nm)	2.8158	1.41	2898.0115
	R2404648-008	Mg (279.078 nm)	3.1317	0.32	10204.4027
	R2404648-008	Mn (257.610 nm)	0.1091	0.20	36460.1759
	R2404648-008	Mo (202.032 nm)	0.0024	6.59	37.4779
	R2404648-008	Na (588.995 nm)	0.1475	3.93	-11613.4528
	R2404648-008	Ni (230.299 nm)	0.0225	1.73	289.8784
	R2404648-008	Pb (220.353 nm)	0.0587	0.51	314.1866
	R2404648-008	Sb (217.582 nm)	-0.0015 u	56.12	3.7556
	R2404648-008	Se (196.026 nm)	-0.0041 u	84.68	1.7545
	R2404648-008	Si (252.851 nm)	10.7924	0.09	41155.6818

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404648-008	Sn (189.925 nm)	0.0116	11.43	31.5162
	R2404648-008	Sr (216.596 nm)	0.0191	0.14	335.2671
	R2404648-008	Ti (336.122 nm)	0.5384	0.16	77940.8730
	R2404648-008	Tl (190.794 nm)	-0.0003 u	> 100.00	-1.5121
	R2404648-008	V (292.401 nm)	0.1072	0.04	4023.2578
	R2404648-008	Y (360.074 nm)	1.04	0.26	509652.15
	R2404648-008	Y_R (360.074 nm)	1.04	0.26	508382.93
	R2404648-008	Zn (213.857 nm)	0.0630	0.22	4030.8580
6/10/2024 22:35:44	R2404648-009	Ag (328.068 nm)	-0.0005 u	12.32	-243.2479
	R2404648-009	Al (237.312 nm)	27.2569 o	0.06	67390.3904
	R2404648-009	As (188.980 nm)	0.0072	31.04	10.2248
	R2404648-009	B (249.772 nm)	0.0216	0.24	707.9765
	R2404648-009	Ba (230.424 nm)	0.1812	0.20	9876.0671
	R2404648-009	Be (313.107 nm)	0.0010	0.80	1099.2040
	R2404648-009	Ca (317.933 nm)	1.9067	0.26	70659.6336
	R2404648-009	Cd (214.439 nm)	0.0006	17.68	35.3898
	R2404648-009	Co (230.786 nm)	0.0045	3.20	72.5272
	R2404648-009	Cr (267.716 nm)	0.0240	0.14	1252.8814
	R2404648-009	Cu (327.395 nm)	0.0117	1.50	484.4506
	R2404648-009	Fe (234.350 nm)	19.2794 o	0.26	351039.8020
	R2404648-009	K (766.491 nm)	1.1184	1.88	1035.2993
	R2404648-009	Mg (279.078 nm)	1.9897	0.10	6472.5025
	R2404648-009	Mn (257.610 nm)	0.2515	0.25	83993.0500
	R2404648-009	Mo (202.032 nm)	0.0012	39.95	24.2332
	R2404648-009	Na (588.995 nm)	0.1019	3.05	-12235.4111
	R2404648-009	Ni (230.299 nm)	0.0137	2.88	185.7430
	R2404648-009	Pb (220.353 nm)	0.0479	0.60	257.9588
	R2404648-009	Sb (217.582 nm)	0.0003	> 100.00	7.2375
	R2404648-009	Se (196.026 nm)	0.0021 u	> 100.00	6.2864
	R2404648-009	Si (252.851 nm)	7.3797	0.05	28152.1289
	R2404648-009	Sn (189.925 nm)	0.0147	3.38	39.2943
	R2404648-009	Sr (216.596 nm)	0.0125	0.54	218.5788
	R2404648-009	Ti (336.122 nm)	0.3998	0.25	57912.5584
	R2404648-009	Tl (190.794 nm)	-0.0005 u	> 100.00	-1.6753
	R2404648-009	V (292.401 nm)	0.0408	0.05	1504.8053
	R2404648-009	Y (360.074 nm)	1.03	0.35	503786.69
	R2404648-009	Y_R (360.074 nm)	1.03	0.35	502559.12
	R2404648-009	Zn (213.857 nm)	0.0467	0.23	2989.2747
6/10/2024 22:38:58	R2404648-010	Ag (328.068 nm)	-0.0005 u	41.93	-243.6060
	R2404648-010	Al (237.312 nm)	56.5195 o	0.08	139726.3608
	R2404648-010	As (188.980 nm)	0.0211	8.42	33.8107
	R2404648-010	B (249.772 nm)	0.0392	0.44	1279.1217
	R2404648-010	Ba (230.424 nm)	0.3528	0.21	19222.4688
	R2404648-010	Be (313.107 nm)	0.0011	0.72	1260.3310
	R2404648-010	Ca (317.933 nm)	8.7723	0.32	315215.4555
	R2404648-010	Cd (214.439 nm)	0.0007	7.97	43.5452
	R2404648-010	Co (230.786 nm)	0.0097	3.04	166.3256
	R2404648-010	Cr (267.716 nm)	0.0461	0.41	2403.6025
	R2404648-010	Cu (327.395 nm)	0.1574	0.13	6880.7571
	R2404648-010	Fe (234.350 nm)	31.7806 o	0.26	578663.4127
	R2404648-010	K (766.491 nm)	2.8420	1.67	2926.8045
	R2404648-010	Mg (279.078 nm)	2.8098	0.21	9152.4277
	R2404648-010	Mn (257.610 nm)	0.3539	0.26	118190.8740
	R2404648-010	Mo (202.032 nm)	0.0033	11.61	46.3694
	R2404648-010	Na (588.995 nm)	0.1967	0.38	-10943.6700
	R2404648-010	Ni (230.299 nm)	0.0235	3.96	301.3410
	R2404648-010	Pb (220.353 nm)	0.0561	0.55	300.9677

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404648-010	Sb (217.582 nm)	-0.0006 u	> 100.00	5.4714
	R2404648-010	Se (196.026 nm)	-0.0015 u	> 100.00	3.7001
	R2404648-010	Si (252.851 nm)	10.3962	0.04	39646.0352
	R2404648-010	Sn (189.925 nm)	0.0114	6.52	31.1007
	R2404648-010	Sr (216.596 nm)	0.0347	1.01	609.8681
	R2404648-010	Ti (336.122 nm)	0.6938	0.14	100392.8758
	R2404648-010	Tl (190.794 nm)	0.0003 u	> 100.00	-0.9423
	R2404648-010	V (292.401 nm)	0.0730	0.49	2728.5485
	R2404648-010	Y (360.074 nm)	1.01	0.36	494231.22
	R2404648-010	Y_R (360.074 nm)	1.01	0.36	492995.72
	R2404648-010	Zn (213.857 nm)	0.2292	0.18	14670.6369
6/10/2024 22:42:12	R2404648-011	Ag (328.068 nm)	-0.0006 u	23.97	-250.6399
	R2404648-011	Al (237.312 nm)	43.6303 o	0.16	107864.5712
	R2404648-011	As (188.980 nm)	0.0176	8.16	27.8477
	R2404648-011	B (249.772 nm)	0.0465	0.34	1513.8007
	R2404648-011	Ba (230.424 nm)	0.2049	0.22	11167.8116
	R2404648-011	Be (313.107 nm)	0.0012	0.92	1300.0492
	R2404648-011	Ca (317.933 nm)	1.9161	0.21	70995.8406
	R2404648-011	Cd (214.439 nm)	0.0007	11.47	42.2869
	R2404648-011	Co (230.786 nm)	0.0114	2.79	197.4351
	R2404648-011	Cr (267.716 nm)	0.0465	0.23	2422.9989
	R2404648-011	Cu (327.395 nm)	0.0528	0.33	2289.6045
	R2404648-011	Fe (234.350 nm)	42.2476 o	0.21	769246.0495
	R2404648-011	K (766.491 nm)	2.2537	0.76	2281.1646
	R2404648-011	Mg (279.078 nm)	3.2732	0.20	10666.9218
	R2404648-011	Mn (257.610 nm)	0.4438	0.19	148217.1096
	R2404648-011	Mo (202.032 nm)	0.0030	6.31	43.1212
	R2404648-011	Na (588.995 nm)	0.1215	2.48	-11968.4176
	R2404648-011	Ni (230.299 nm)	0.0223	2.73	287.4844
	R2404648-011	Pb (220.353 nm)	0.0491	1.59	264.3865
	R2404648-011	Sb (217.582 nm)	-0.0022 u	90.50	2.4815
	R2404648-011	Se (196.026 nm)	-0.0007 u	> 100.00	4.2835
	R2404648-011	Si (252.851 nm)	9.5934	0.17	36586.8947
	R2404648-011	Sn (189.925 nm)	0.0110	7.48	29.9970
	R2404648-011	Sr (216.596 nm)	0.0208	0.77	365.0797
	R2404648-011	Ti (336.122 nm)	0.6575	0.20	95146.9020
	R2404648-011	Tl (190.794 nm)	-0.0008 u	> 100.00	-1.9461
	R2404648-011	V (292.401 nm)	0.0805	0.66	3012.1527
	R2404648-011	Y (360.074 nm)	1.02	0.43	497583.89
	R2404648-011	Y_R (360.074 nm)	1.02	0.43	496339.71
	R2404648-011	Zn (213.857 nm)	0.1491	0.09	9542.5362
6/10/2024 22:45:25	R2404648-012	Ag (328.068 nm)	-0.0005 u	13.04	-243.2629
	R2404648-012	Al (237.312 nm)	71.7604 o	0.11	177401.2860
	R2404648-012	As (188.980 nm)	0.0212	10.72	33.9255
	R2404648-012	B (249.772 nm)	0.0647	0.55	2106.0387
	R2404648-012	Ba (230.424 nm)	0.1935	0.42	10545.6930
	R2404648-012	Be (313.107 nm)	0.0014	0.78	1580.7215
	R2404648-012	Ca (317.933 nm)	2.3561	0.32	86667.9095
	R2404648-012	Cd (214.439 nm)	0.0007	12.61	43.3191
	R2404648-012	Co (230.786 nm)	0.0083	4.23	141.2555
	R2404648-012	Cr (267.716 nm)	0.0574	0.43	2989.0958
	R2404648-012	Cu (327.395 nm)	0.0875	0.08	3813.8168
	R2404648-012	Fe (234.350 nm)	60.1280 o	0.33	1094814.4064
	R2404648-012	K (766.491 nm)	2.6144	1.04	2676.9773
	R2404648-012	Mg (279.078 nm)	2.4644	0.25	8023.5824
	R2404648-012	Mn (257.610 nm)	0.2448	0.28	81765.7926
	R2404648-012	Mo (202.032 nm)	0.0037	8.02	50.3212

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404648-012	Na (588.995 nm)	0.1072	1.56	-12162.5276
	R2404648-012	Ni (230.299 nm)	0.0257	1.65	327.1757
	R2404648-012	Pb (220.353 nm)	0.0502	1.08	270.1326
	R2404648-012	Sb (217.582 nm)	-0.0022 u	53.27	2.5747
	R2404648-012	Se (196.026 nm)	-0.0039 u	71.87	1.9409
	R2404648-012	Si (252.851 nm)	11.5848	0.11	44174.9039
	R2404648-012	Sn (189.925 nm)	0.0122	4.06	33.0637
	R2404648-012	Sr (216.596 nm)	0.0260	0.65	457.0445
	R2404648-012	Ti (336.122 nm)	0.6992	0.19	101166.5965
	R2404648-012	Tl (190.794 nm)	0.0006 u	> 100.00	-0.6233
	R2404648-012	V (292.401 nm)	0.1056	0.09	3962.8733
	R2404648-012	Y (360.074 nm)	1.01	0.24	492884.50
	R2404648-012	Y_R (360.074 nm)	1.01	0.24	491643.42
	R2404648-012	Zn (213.857 nm)	0.1859	0.24	11902.0902
6/10/2024 22:48:39	R2404648-013	Ag (328.068 nm)	-0.0005 u	3.20	-241.6245
	R2404648-013	Al (237.312 nm)	52.2139 o	0.06	129083.0971
	R2404648-013	As (188.980 nm)	0.0188	4.50	29.7949
	R2404648-013	B (249.772 nm)	0.0419	0.57	1367.4691
	R2404648-013	Ba (230.424 nm)	0.2423	0.22	13203.4426
	R2404648-013	Be (313.107 nm)	0.0014	0.60	1564.6703
	R2404648-013	Ca (317.933 nm)	4.9895	0.24	180470.5032
	R2404648-013	Cd (214.439 nm)	0.0007	16.11	41.3333
	R2404648-013	Co (230.786 nm)	0.0069	4.12	116.1668
	R2404648-013	Cr (267.716 nm)	0.0497	0.22	2591.6352
	R2404648-013	Cu (327.395 nm)	0.1503	0.14	6568.6943
	R2404648-013	Fe (234.350 nm)	34.9199 o	0.30	635823.6943
	R2404648-013	K (766.491 nm)	3.1112	0.54	3222.1644
	R2404648-013	Mg (279.078 nm)	2.9942	0.28	9755.0560
	R2404648-013	Mn (257.610 nm)	0.3465	0.23	115728.4753
	R2404648-013	Mo (202.032 nm)	0.0030	9.64	43.3138
	R2404648-013	Na (588.995 nm)	0.2256	1.26	-10550.6367
	R2404648-013	Ni (230.299 nm)	0.0230	1.89	295.1245
	R2404648-013	Pb (220.353 nm)	0.0696	0.66	371.3078
	R2404648-013	Sb (217.582 nm)	-0.0022 u	38.35	2.5895
	R2404648-013	Se (196.026 nm)	-0.0012 u	> 100.00	3.9240
	R2404648-013	Si (252.851 nm)	9.3379	0.14	35613.5649
	R2404648-013	Sn (189.925 nm)	0.0136	3.32	36.4479
	R2404648-013	Sr (216.596 nm)	0.0375	1.30	659.0276
	R2404648-013	Ti (336.122 nm)	0.5386	0.20	77969.3878
	R2404648-013	Tl (190.794 nm)	0.0006 u	> 100.00	-0.6133
	R2404648-013	V (292.401 nm)	0.0764	0.22	2856.1312
	R2404648-013	Y (360.074 nm)	1.02	0.40	500541.75
	R2404648-013	Y_R (360.074 nm)	1.02	0.40	499281.70
	R2404648-013	Zn (213.857 nm)	0.2401	0.16	15371.3303
6/10/2024 22:51:53	R2404648-014	Ag (328.068 nm)	-0.0006 u	10.81	-247.1966
	R2404648-014	Al (237.312 nm)	35.4074 o	0.06	87537.9036
	R2404648-014	As (188.980 nm)	0.0129	13.58	19.8501
	R2404648-014	B (249.772 nm)	0.0331	0.62	1079.5545
	R2404648-014	Ba (230.424 nm)	0.1422	0.17	7752.8650
	R2404648-014	Be (313.107 nm)	0.0011	1.72	1174.9233
	R2404648-014	Ca (317.933 nm)	1.8099	0.28	67212.9569
	R2404648-014	Cd (214.439 nm)	0.0006	17.23	33.9610
	R2404648-014	Co (230.786 nm)	0.0088	3.00	150.5166
	R2404648-014	Cr (267.716 nm)	0.0380	0.36	1980.1815
	R2404648-014	Cu (327.395 nm)	0.0619	0.51	2688.6745
	R2404648-014	Fe (234.350 nm)	29.4585 o	0.28	536382.3056
	R2404648-014	K (766.491 nm)	1.9888	1.82	1990.4797

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404648-014	Mg (279.078 nm)	3.0238	0.12	9851.7587
	R2404648-014	Mn (257.610 nm)	0.2486	0.19	83054.0167
	R2404648-014	Mo (202.032 nm)	0.0019	13.01	31.7763
	R2404648-014	Na (588.995 nm)	0.1310	1.33	-11838.7797
	R2404648-014	Ni (230.299 nm)	0.0195	3.70	253.6618
	R2404648-014	Pb (220.353 nm)	0.0359	1.13	195.5981
	R2404648-014	Sb (217.582 nm)	-0.0013 u	8.59	4.1560
	R2404648-014	Se (196.026 nm)	-0.0008 u	> 100.00	4.1774
	R2404648-014	Si (252.851 nm)	8.6619	0.11	33037.6092
	R2404648-014	Sn (189.925 nm)	0.0112	6.78	30.5476
	R2404648-014	Sr (216.596 nm)	0.0198	0.50	347.6672
	R2404648-014	Ti (336.122 nm)	0.6249	0.09	90442.3961
	R2404648-014	Tl (190.794 nm)	-0.0012 u	> 100.00	-2.3457
	R2404648-014	V (292.401 nm)	0.0581	0.20	2163.9050
	R2404648-014	Y (360.074 nm)	1.03	0.28	501685.40
	R2404648-014	Y_R (360.074 nm)	1.03	0.28	500418.01
	R2404648-014	Zn (213.857 nm)	0.1213	0.18	7762.6494
6/10/2024 22:55:07	Continuing Calibration Verification1	Ag (328.068 nm)	0.5037	0.09	28320.3447
	Continuing Calibration Verification1	Al (237.312 nm)	9.7379	0.04	24084.0352
	Continuing Calibration Verification1	As (188.980 nm)	0.9661	0.33	1636.4524
	Continuing Calibration Verification1	B (249.772 nm)	2.3998	0.23	77930.8849
	Continuing Calibration Verification1	Ba (230.424 nm)	9.5642	0.07	520751.3522
	Continuing Calibration Verification1	Be (313.107 nm)	0.2412	0.25	264710.2909
	Continuing Calibration Verification1	Ca (317.933 nm)	25.7000	0.28	918188.5671
	Continuing Calibration Verification1	Cd (214.439 nm)	0.5000	0.33	28487.2078
	Continuing Calibration Verification1	Co (230.786 nm)	2.4627	0.54	44648.3291
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5179	0.29	26925.9847
	Continuing Calibration Verification1	Cu (327.395 nm)	1.2128	0.55	53210.9294
	Continuing Calibration Verification1	Fe (234.350 nm)	5.0200	0.29	91403.5602
	Continuing Calibration Verification1	K (766.491 nm)	24.0044	0.16	26150.3058
	Continuing Calibration Verification1	Mg (279.078 nm)	25.2908	0.24	82618.5189
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7392	0.27	246881.4823
	Continuing Calibration Verification1	Mo (202.032 nm)	2.6624	0.36	27803.7944
	Continuing Calibration Verification1	Na (588.995 nm)	25.2723	0.24	330544.6525
	Continuing Calibration Verification1	Ni (230.299 nm)	2.0513	0.22	24113.5703
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5146	0.22	2694.6649
	Continuing Calibration Verification1	Sb (217.582 nm)	4.6667	0.02	8675.3061
	Continuing Calibration Verification1	Se (196.026 nm)	0.4718	0.37	348.7201
	Continuing Calibration Verification1	Si (252.851 nm)	9.8245	0.53	37467.5123
	Continuing Calibration Verification1	Sn (189.925 nm)	4.9591	0.19	12214.1246
	Continuing Calibration Verification1	Sr (216.596 nm)	2.4628	0.55	43343.8621
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5099	0.16	362779.5545
	Continuing Calibration Verification1	Tl (190.794 nm)	0.9673	0.04	943.9894
	Continuing Calibration Verification1	V (292.401 nm)	2.5125	0.26	95213.4761
	Continuing Calibration Verification1	Y (360.074 nm)	0.98	0.24	477703.89
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.98	0.24	476510.86
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9839	0.35	62978.6061
6/10/2024 22:58:20	Continuing Calibration Blank1	Ag (328.068 nm)	-0.0005 u	37.01	-241.5654
	Continuing Calibration Blank1	Al (237.312 nm)	0.0031	18.42	20.0614
	Continuing Calibration Blank1	As (188.980 nm)	-0.0012 u	> 100.00	-4.1403
	Continuing Calibration Blank1	B (249.772 nm)	0.0013	15.51	48.7288
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0005	3.94	37.0937
	Continuing Calibration Blank1	Be (313.107 nm)	0.0001	6.75	83.4694
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0055	3.55	2940.3764
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0001	79.94	7.1640
	Continuing Calibration Blank1	Co (230.786 nm)	0.0000 u	> 100.00	-9.1570
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0001	> 100.00	9.0066

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0003	85.74	-14.2609
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0032	33.73	57.7629
	Continuing Calibration Blank1	K (766.491 nm)	0.0268 u	> 100.00	-162.6132
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0018	45.40	-23.8632
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0000	15.83	35.2181
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0034	27.62	47.5722
	Continuing Calibration Blank1	Na (588.995 nm)	0.0283	3.92	-13238.0277
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0002	59.83	27.1621
	Continuing Calibration Blank1	Pb (220.353 nm)	0.0004	81.89	9.9140
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0034	47.79	12.8714
	Continuing Calibration Blank1	Se (196.026 nm)	-0.0008 u	> 100.00	4.1806
	Continuing Calibration Blank1	Si (252.851 nm)	-0.0021 u	38.99	24.4922
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0000 u	> 100.00	3.0366
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0005	20.75	7.9168
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0030	43.18	582.2494
	Continuing Calibration Blank1	Tl (190.794 nm)	0.0015 u	> 100.00	0.2330
	Continuing Calibration Blank1	V (292.401 nm)	0.0000 u	> 100.00	-41.4639
	Continuing Calibration Blank1	Y (360.074 nm)	1.02	0.10	500534.19
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.02	0.10	499286.44
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0000 u	> 100.00	0.2015
6/10/2024 23:01:34	R2404648-015	Ag (328.068 nm)	-0.0008 u	10.77	-258.3181
	R2404648-015	Al (237.312 nm)	111.4373 o	0.04	275481.0640
	R2404648-015	As (188.980 nm)	0.0405	4.84	66.6023
	R2404648-015	B (249.772 nm)	0.1957	0.59	6358.7672
	R2404648-015	Ba (230.424 nm)	0.5702	0.23	31055.0607
	R2404648-015	Be (313.107 nm)	0.0062	0.24	6836.8056
	R2404648-015	Ca (317.933 nm)	8.9415	0.32	321243.6004
	R2404648-015	Cd (214.439 nm)	0.0016	2.85	95.4174
	R2404648-015	Co (230.786 nm)	0.0823	0.56	1481.8633
	R2404648-015	Cr (267.716 nm)	0.2403	0.24	12495.6539
	R2404648-015	Cu (327.395 nm)	0.1055	0.48	4601.7191
	R2404648-015	Fe (234.350 nm)	173.5462 o	0.13	3159940.2503
	R2404648-015	K (766.491 nm)	13.1022	0.39	14186.3423
	R2404648-015	Mg (279.078 nm)	15.9485	0.20	52088.5162
	R2404648-015	Mn (257.610 nm)	4.7157 o	0.31	1574830.9183
	R2404648-015	Mo (202.032 nm)	0.0054	5.27	68.3712
	R2404648-015	Na (588.995 nm)	0.3978	0.87	-8205.8172
	R2404648-015	Ni (230.299 nm)	0.1145	1.00	1370.0697
	R2404648-015	Pb (220.353 nm)	0.0851	0.74	452.3930
	R2404648-015	Sb (217.582 nm)	-0.0058 u	19.37	-4.1989
	R2404648-015	Se (196.026 nm)	-0.0081 u	11.99	-1.1239
	R2404648-015	Si (252.851 nm)	11.8070	0.20	45021.4029
	R2404648-015	Sn (189.925 nm)	0.0087	20.15	24.5328
	R2404648-015	Sr (216.596 nm)	0.0564	0.22	991.8732
	R2404648-015	Ti (336.122 nm)	4.1800	0.09	604069.3811
	R2404648-015	Tl (190.794 nm)	0.0018	41.49	0.5426
	R2404648-015	V (292.401 nm)	0.3847	0.18	14543.1088
	R2404648-015	Y (360.074 nm)	1.24	0.51	606105.05
	R2404648-015	Y_R (360.074 nm)	1.24	0.51	604576.41
	R2404648-015	Zn (213.857 nm)	0.3363	0.07	21527.4075
6/10/2024 23:04:48	R2404648-016	Ag (328.068 nm)	-0.0007 u	19.61	-251.6741
	R2404648-016	Al (237.312 nm)	119.1688 o	0.04	294592.8066
	R2404648-016	As (188.980 nm)	0.0401	6.48	65.9291
	R2404648-016	B (249.772 nm)	0.2971	0.44	9653.6186
	R2404648-016	Ba (230.424 nm)	0.3488	0.22	19003.6440
	R2404648-016	Be (313.107 nm)	0.0063	0.18	6909.5123
	R2404648-016	Ca (317.933 nm)	10.9827	0.28	393952.9946

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404648-016	Cd (214.439 nm)	0.0028	1.83	158.9086
	R2404648-016	Co (230.786 nm)	0.0678	0.24	1220.4549
	R2404648-016	Cr (267.716 nm)	0.2851	0.18	14823.9196
	R2404648-016	Cu (327.395 nm)	0.1165	0.27	5084.4083
	R2404648-016	Fe (234.350 nm)	257.0553 o	0.20	4680479.1446
	R2404648-016	K (766.491 nm)	5.6737	0.61	6034.2935
	R2404648-016	Mg (279.078 nm)	8.5019	0.17	27753.7621
	R2404648-016	Mn (257.610 nm)	3.5338 o	0.23	1180124.5659
	R2404648-016	Mo (202.032 nm)	0.0064	3.81	78.5972
	R2404648-016	Na (588.995 nm)	0.3811	0.80	-8432.1784
	R2404648-016	Ni (230.299 nm)	0.0715	0.20	864.9304
	R2404648-016	Pb (220.353 nm)	0.0952	0.20	505.1848
	R2404648-016	Sb (217.582 nm)	-0.0121 u	20.99	-15.9700
	R2404648-016	Se (196.026 nm)	-0.0171 u	19.76	-7.7222
	R2404648-016	Si (252.851 nm)	13.9746	0.09	53280.6900
	R2404648-016	Sn (189.925 nm)	0.0148	7.05	39.3667
	R2404648-016	Sr (216.596 nm)	0.0645	0.37	1134.1478
	R2404648-016	Ti (336.122 nm)	2.7717	0.14	400597.6397
	R2404648-016	Tl (190.794 nm)	-0.0001 u	> 100.00	-1.2902
	R2404648-016	V (292.401 nm)	0.5248	0.11	19856.8221
	R2404648-016	Y (360.074 nm)	1.17	0.40	571574.27
	R2404648-016	Y_R (360.074 nm)	1.17	0.40	570092.14
	R2404648-016	Zn (213.857 nm)	0.3159	0.10	20221.0172
6/10/2024 23:08:02	R2404648-017	Ag (328.068 nm)	-0.0008 u	20.15	-260.0341
	R2404648-017	Al (237.312 nm)	89.6077 o	0.03	221519.0199
	R2404648-017	As (188.980 nm)	0.0376	1.66	61.7828
	R2404648-017	B (249.772 nm)	0.1484	0.23	4824.1450
	R2404648-017	Ba (230.424 nm)	0.4803	0.19	26161.5768
	R2404648-017	Be (313.107 nm)	0.0056	0.27	6116.5402
	R2404648-017	Ca (317.933 nm)	9.5815	0.33	344041.6011
	R2404648-017	Cd (214.439 nm)	0.0014	9.97	79.9092
	R2404648-017	Co (230.786 nm)	0.0806	0.40	1452.1499
	R2404648-017	Cr (267.716 nm)	0.1699	0.38	8835.4402
	R2404648-017	Cu (327.395 nm)	0.0781	0.22	3399.1116
	R2404648-017	Fe (234.350 nm)	133.5050 o	0.32	2430866.3184
	R2404648-017	K (766.491 nm)	4.5634	0.36	4815.8508
	R2404648-017	Mg (279.078 nm)	7.9664	0.23	26003.5952
	R2404648-017	Mn (257.610 nm)	6.0926 o	0.31	2034663.3346
	R2404648-017	Mo (202.032 nm)	0.0046	7.39	59.9921
	R2404648-017	Na (588.995 nm)	0.4696	1.39	-7227.2135
	R2404648-017	Ni (230.299 nm)	0.0777	0.38	937.4203
	R2404648-017	Pb (220.353 nm)	0.0839	0.01	445.8480
	R2404648-017	Sb (217.582 nm)	-0.0070 u	18.67	-6.4703
	R2404648-017	Se (196.026 nm)	-0.0011 u	> 100.00	4.0033
	R2404648-017	Si (252.851 nm)	10.2035	0.05	38911.7642
	R2404648-017	Sn (189.925 nm)	0.0104	5.72	28.6550
	R2404648-017	Sr (216.596 nm)	0.0479	0.66	842.0185
	R2404648-017	Ti (336.122 nm)	2.0589	0.22	297622.2028
	R2404648-017	Tl (190.794 nm)	0.0012 u	> 100.00	-0.0649
	R2404648-017	V (292.401 nm)	0.2816	0.27	10635.7574
	R2404648-017	Y (360.074 nm)	1.27	0.34	620935.01
	R2404648-017	Y_R (360.074 nm)	1.27	0.34	619363.38
	R2404648-017	Zn (213.857 nm)	0.2541	0.22	16266.0935
6/10/2024 23:11:15	R2404648-018	Ag (328.068 nm)	-0.0007 u	19.96	-251.9804
	R2404648-018	Al (237.312 nm)	99.1764 o	0.06	245172.4841
	R2404648-018	As (188.980 nm)	0.0205	6.66	32.6918
	R2404648-018	B (249.772 nm)	0.2437	0.52	7919.5687

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404648-018	Ba (230.424 nm)	0.2099	0.14	11438.7077
	R2404648-018	Be (313.107 nm)	0.0071	0.34	7815.8332
	R2404648-018	Ca (317.933 nm)	9.6137	0.29	345188.6282
	R2404648-018	Cd (214.439 nm)	0.0023	3.04	133.2561
	R2404648-018	Co (230.786 nm)	0.1928	0.23	3487.1567
	R2404648-018	Cr (267.716 nm)	0.2766	0.31	14385.5492
	R2404648-018	Cu (327.395 nm)	0.1660	0.17	7259.8511
	R2404648-018	Fe (234.350 nm)	217.9934 o	0.22	3969237.6399
	R2404648-018	K (766.491 nm)	3.8670	1.08	4051.5954
	R2404648-018	Mg (279.078 nm)	6.5473	0.23	21366.2436
	R2404648-018	Mn (257.610 nm)	6.2899 o	0.24	2100563.5598
	R2404648-018	Mo (202.032 nm)	0.0028	7.49	40.8913
	R2404648-018	Na (588.995 nm)	0.3926	0.96	-8276.2849
	R2404648-018	Ni (230.299 nm)	0.0873	0.63	1050.3963
	R2404648-018	Pb (220.353 nm)	0.0617	1.54	329.8573
	R2404648-018	Sb (217.582 nm)	-0.0091 u	17.67	-10.3674
	R2404648-018	Se (196.026 nm)	-0.0110 u	1.30	-3.2644
	R2404648-018	Si (252.851 nm)	8.1802	0.09	31202.1443
	R2404648-018	Sn (189.925 nm)	0.0085	15.41	23.8357
	R2404648-018	Sr (216.596 nm)	0.0512	0.92	899.9331
	R2404648-018	Ti (336.122 nm)	3.5239	0.06	509281.0166
	R2404648-018	Tl (190.794 nm)	0.0014	43.58	0.1158
	R2404648-018	V (292.401 nm)	0.5031	0.15	19032.6019
	R2404648-018	Y (360.074 nm)	1.25	0.25	608382.87
	R2404648-018	Y_R (360.074 nm)	1.24	0.25	606842.10
	R2404648-018	Zn (213.857 nm)	0.3522	0.17	22543.9234
6/10/2024 23:14:29	R2404648-019	Ag (328.068 nm)	-0.0005 u	33.89	-244.4638
	R2404648-019	Al (237.312 nm)	161.6919 o	0.03	399708.4692
	R2404648-019	As (188.980 nm)	0.0211	11.00	33.7308
	R2404648-019	B (249.772 nm)	0.2805	0.22	9113.6615
	R2404648-019	Ba (230.424 nm)	0.5436	0.22	29608.5248
	R2404648-019	Be (313.107 nm)	0.0101	0.30	11085.3997
	R2404648-019	Ca (317.933 nm)	18.7889	0.30	672013.0902
	R2404648-019	Cd (214.439 nm)	0.0026	1.93	147.4009
	R2404648-019	Co (230.786 nm)	0.1254	0.29	2263.4296
	R2404648-019	Cr (267.716 nm)	0.4554	0.26	23676.4552
	R2404648-019	Cu (327.395 nm)	0.1707	0.23	7464.9075
	R2404648-019	Fe (234.350 nm)	245.2444 o	0.22	4465424.3831
	R2404648-019	K (766.491 nm)	14.7816	0.19	16029.2434
	R2404648-019	Mg (279.078 nm)	31.8694	0.24	104116.7838
	R2404648-019	Mn (257.610 nm)	6.8005 o	0.21	2271075.1307
	R2404648-019	Mo (202.032 nm)	0.0038	19.85	51.7922
	R2404648-019	Na (588.995 nm)	0.5111	1.42	-6661.9217
	R2404648-019	Ni (230.299 nm)	0.1138	0.68	1361.6979
	R2404648-019	Pb (220.353 nm)	0.0809	0.59	430.1345
	R2404648-019	Sb (217.582 nm)	-0.0094 u	12.79	-10.8301
	R2404648-019	Se (196.026 nm)	-0.0126 u	26.19	-4.4132
	R2404648-019	Si (252.851 nm)	9.4488	0.05	36035.9591
	R2404648-019	Sn (189.925 nm)	0.0088	11.81	24.5924
	R2404648-019	Sr (216.596 nm)	0.0795	0.26	1398.4400
	R2404648-019	Ti (336.122 nm)	5.4176	0.17	782869.4883
	R2404648-019	Tl (190.794 nm)	-0.0003 u	> 100.00	-1.5307
	R2404648-019	V (292.401 nm)	0.5185	0.20	19615.5782
	R2404648-019	Y (360.074 nm)	1.15	0.40	560335.49
	R2404648-019	Y_R (360.074 nm)	1.15	0.40	558881.88
	R2404648-019	Zn (213.857 nm)	0.6960	0.08	44550.4470
6/10/2024 23:17:42	R2404648-020	Ag (328.068 nm)	-0.0007 u	14.63	-252.5312

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404648-020	Al (237.312 nm)	78.2730 o	0.43	193499.9820
	R2404648-020	As (188.980 nm)	0.0270	3.41	43.7296
	R2404648-020	B (249.772 nm)	0.1286	0.53	4181.3121
	R2404648-020	Ba (230.424 nm)	0.3597	0.61	19597.5639
	R2404648-020	Be (313.107 nm)	0.0043	0.48	4712.3002
	R2404648-020	Ca (317.933 nm)	12.7883	0.44	458268.5673
	R2404648-020	Cd (214.439 nm)	0.0015	5.26	89.7615
	R2404648-020	Co (230.786 nm)	0.0580	0.51	1042.3858
	R2404648-020	Cr (267.716 nm)	0.1603	0.65	8339.9555
	R2404648-020	Cu (327.395 nm)	0.0961	0.58	4189.9138
	R2404648-020	Fe (234.350 nm)	115.8442 o	0.58	2109298.1357
	R2404648-020	K (766.491 nm)	5.0977	0.36	5402.1302
	R2404648-020	Mg (279.078 nm)	8.4892	0.59	27712.2576
	R2404648-020	Mn (257.610 nm)	3.7695 o	0.60	1258850.6449
	R2404648-020	Mo (202.032 nm)	0.0045	7.46	59.2751
	R2404648-020	Na (588.995 nm)	0.3031	1.13	-9494.5628
	R2404648-020	Ni (230.299 nm)	0.0666	0.91	807.6840
	R2404648-020	Pb (220.353 nm)	0.0770	0.55	409.6995
	R2404648-020	Sb (217.582 nm)	-0.0051 u	46.99	-2.8338
	R2404648-020	Se (196.026 nm)	-0.0064 u	35.54	0.1022
	R2404648-020	Si (252.851 nm)	12.8314	0.43	48924.9341
	R2404648-020	Sn (189.925 nm)	0.0105	7.56	28.8910
	R2404648-020	Sr (216.596 nm)	0.0530	1.06	931.8618
	R2404648-020	Ti (336.122 nm)	1.6721	0.53	241733.6458
	R2404648-020	Tl (190.794 nm)	-0.0008 u	39.78	-1.9846
	R2404648-020	V (292.401 nm)	0.2511	0.66	9480.4115
	R2404648-020	Y (360.074 nm)	1.09	0.48	532365.11
	R2404648-020	Y_R (360.074 nm)	1.09	0.48	531003.43
	R2404648-020	Zn (213.857 nm)	0.3007	0.54	19245.7278
6/10/2024 23:20:56	Continuing Calibration Verification1	Ag (328.068 nm)	0.5043	0.10	28355.3343
	Continuing Calibration Verification1	Al (237.312 nm)	9.7489	0.12	24111.0631
	Continuing Calibration Verification1	As (188.980 nm)	0.9633	0.20	1631.6983
	Continuing Calibration Verification1	B (249.772 nm)	2.3975	0.34	77854.8692
	Continuing Calibration Verification1	Ba (230.424 nm)	9.5517	0.27	520073.2914
	Continuing Calibration Verification1	Be (313.107 nm)	0.2408	0.34	264362.7112
	Continuing Calibration Verification1	Ca (317.933 nm)	25.7063	0.35	918414.0303
	Continuing Calibration Verification1	Cd (214.439 nm)	0.4993	0.36	28447.9193
	Continuing Calibration Verification1	Co (230.786 nm)	2.4637	0.58	44666.5318
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5175	0.31	26904.5579
	Continuing Calibration Verification1	Cu (327.395 nm)	1.2145	0.67	53285.4527
	Continuing Calibration Verification1	Fe (234.350 nm)	5.0328	0.40	91637.9255
	Continuing Calibration Verification1	K (766.491 nm)	24.1557	0.14	26316.3911
	Continuing Calibration Verification1	Mg (279.078 nm)	25.2851	0.27	82599.6319
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7409	0.33	247442.3535
	Continuing Calibration Verification1	Mo (202.032 nm)	2.6634	0.37	27813.9282
	Continuing Calibration Verification1	Na (588.995 nm)	25.3729	0.14	331915.1979
	Continuing Calibration Verification1	Ni (230.299 nm)	2.0501	0.27	24099.5068
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5131	0.51	2686.8495
	Continuing Calibration Verification1	Sb (217.582 nm)	4.6555	0.19	8654.6039
	Continuing Calibration Verification1	Se (196.026 nm)	0.4730	1.09	349.5438
	Continuing Calibration Verification1	Si (252.851 nm)	9.8416	0.64	37532.7100
	Continuing Calibration Verification1	Sn (189.925 nm)	4.9468	0.38	12183.9830
	Continuing Calibration Verification1	Sr (216.596 nm)	2.4619	0.53	43327.3527
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5125	0.28	363154.6782
	Continuing Calibration Verification1	Tl (190.794 nm)	0.9656	0.48	942.3076
	Continuing Calibration Verification1	V (292.401 nm)	2.5132	0.34	95238.8969
	Continuing Calibration Verification1	Y (360.074 nm)	0.98	0.27	479218.81

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.98	0.27	477996.84
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9836	0.53	62959.8481
6/10/2024 23:24:09	Continuing Calibration Blank1	Ag (328.068 nm)	-0.0004 u	20.15	-236.4724
	Continuing Calibration Blank1	Al (237.312 nm)	0.0031	56.56	20.0284
	Continuing Calibration Blank1	As (188.980 nm)	-0.0013 u	> 100.00	-4.2363
	Continuing Calibration Blank1	B (249.772 nm)	0.0013	10.59	47.3558
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0005	24.80	40.2111
	Continuing Calibration Blank1	Be (313.107 nm)	0.0001	11.11	86.8094
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0060	3.20	2956.0153
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0002	47.63	10.8117
	Continuing Calibration Blank1	Co (230.786 nm)	0.0003	78.60	-5.0520
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0001 u	> 100.00	10.1388
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0006	19.87	-3.3554
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0048	35.33	87.4875
	Continuing Calibration Blank1	K (766.491 nm)	0.0666	46.99	-118.9839
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0029	38.64	-20.1575
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0001	6.55	55.7252
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0031	41.04	44.5333
	Continuing Calibration Blank1	Na (588.995 nm)	0.0194	32.25	-13358.9288
	Continuing Calibration Blank1	Ni (230.299 nm)	-0.0002 u	45.28	23.0541
	Continuing Calibration Blank1	Pb (220.353 nm)	0.0006 u	99.80	10.9039
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0035	77.79	13.1725
	Continuing Calibration Blank1	Se (196.026 nm)	-0.0023 u	73.79	3.0664
	Continuing Calibration Blank1	Si (252.851 nm)	-0.0033 u	18.33	20.1340
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0008	82.57	4.9497
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0004	56.92	6.8311
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0035	44.95	657.7217
	Continuing Calibration Blank1	Tl (190.794 nm)	-0.0002 u	> 100.00	-1.3614
	Continuing Calibration Blank1	V (292.401 nm)	-0.0001 u	> 100.00	-43.2478
	Continuing Calibration Blank1	Y (360.074 nm)	1.02	0.08	499499.45
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.02	0.08	498248.97
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0000 u	> 100.00	2.2199
6/10/2024 23:27:23	Contract Required Detection Limit	Ag (328.068 nm)	0.0084	1.78	259.7304
	Contract Required Detection Limit	Al (237.312 nm)	0.1967	0.93	498.4876
	Contract Required Detection Limit	As (188.980 nm)	0.0195	3.99	31.1159
	Contract Required Detection Limit	B (249.772 nm)	0.1884	0.13	6124.0162
	Contract Required Detection Limit	Ba (230.424 nm)	0.1926	0.21	10498.9649
	Contract Required Detection Limit	Be (313.107 nm)	0.0049	0.40	5394.8464
	Contract Required Detection Limit	Ca (317.933 nm)	1.0433	0.29	39904.4011
	Contract Required Detection Limit	Cd (214.439 nm)	0.0105	0.97	597.5536
	Contract Required Detection Limit	Co (230.786 nm)	0.0497	0.25	891.9442
	Contract Required Detection Limit	Cr (267.716 nm)	0.0095	1.12	499.6988
	Contract Required Detection Limit	Cu (327.395 nm)	0.0245	1.56	1047.7678
	Contract Required Detection Limit	Fe (234.350 nm)	0.1085	1.34	1974.3700
	Contract Required Detection Limit	K (766.491 nm)	0.9740	3.12	876.8636
	Contract Required Detection Limit	Mg (279.078 nm)	1.0053	0.25	3255.4815
	Contract Required Detection Limit	Mn (257.610 nm)	0.0139	0.25	4667.8974
	Contract Required Detection Limit	Mo (202.032 nm)	0.0266	0.88	289.9248
	Contract Required Detection Limit	Na (588.995 nm)	1.0066	0.56	85.3463
	Contract Required Detection Limit	Ni (230.299 nm)	0.0355	1.09	441.5499
	Contract Required Detection Limit	Pb (220.353 nm)	0.0118	3.71	69.2690
	Contract Required Detection Limit	Sb (217.582 nm)	0.0566	2.39	111.7663
	Contract Required Detection Limit	Se (196.026 nm)	0.0075 R 75%	17.55	10.2580 R
	Contract Required Detection Limit	Si (252.851 nm)	0.0491	1.61	219.5797
	Contract Required Detection Limit	Sn (189.925 nm)	0.4978	0.13	1228.6937
	Contract Required Detection Limit	Sr (216.596 nm)	0.0983	0.27	1730.0287
	Contract Required Detection Limit	Ti (336.122 nm)	0.0500	1.81	7378.2865

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Contract Required Detection Limit	Tl (190.794 nm)	0.0203	2.24	18.6178
	Contract Required Detection Limit	V (292.401 nm)	0.0491	0.64	1819.6728
	Contract Required Detection Limit	Y (360.074 nm)	1.02	0.38	496834.75
	Contract Required Detection Limit	Y_R (360.074 nm)	1.02	0.38	495595.57
	Contract Required Detection Limit	Zn (213.857 nm)	0.0173	0.44	1105.2936
6/10/2024 23:30:37	Interference Check Solution A	Ag (328.068 nm)	-0.0005 u	8.46	-245.1057
	Interference Check Solution A	Al (237.312 nm)	248.2829 o	0.18	613758.0300
	Interference Check Solution A	As (188.980 nm)	-0.0003 u	> 100.00	-2.5960
	Interference Check Solution A	B (249.772 nm)	0.0949	0.74	3088.2502
	Interference Check Solution A	Ba (230.424 nm)	-0.0005 u	24.68	-18.0326
	Interference Check Solution A	Be (313.107 nm)	0.0002	2.24	256.4683
	Interference Check Solution A	Ca (317.933 nm)	237.1498 o	0.53	8450122.1874
	Interference Check Solution A	Cd (214.439 nm)	-0.0006 u	15.06	-34.8896
	Interference Check Solution A	Co (230.786 nm)	-0.0002 u	> 100.00	-13.6764
	Interference Check Solution A	Cr (267.716 nm)	0.0036	2.66	191.2161
	Interference Check Solution A	Cu (327.395 nm)	0.0091	0.74	370.2179
	Interference Check Solution A	Fe (234.350 nm)	93.1809 o	0.39	1696642.6293
	Interference Check Solution A	K (766.491 nm)	0.0707	38.78	-114.4647
	Interference Check Solution A	Mg (279.078 nm)	261.4571 o	0.44	854389.4890
	Interference Check Solution A	Mn (257.610 nm)	0.0012	1.00	411.3316
	Interference Check Solution A	Mo (202.032 nm)	0.0016	18.58	29.0189
	Interference Check Solution A	Na (588.995 nm)	-0.0477 u	12.02	-14272.8226
	Interference Check Solution A	Ni (230.299 nm)	0.0035	17.71	66.3028
	Interference Check Solution A	Pb (220.353 nm)	0.0040	11.02	28.7618
	Interference Check Solution A	Sb (217.582 nm)	-0.0043 u	47.36	-1.3328
	Interference Check Solution A	Se (196.026 nm)	-0.0098 u	43.48	-2.3512
	Interference Check Solution A	Si (252.851 nm)	0.0387	3.85	180.1402
	Interference Check Solution A	Sn (189.925 nm)	0.0003 u	> 100.00	3.6588
	Interference Check Solution A	Sr (216.596 nm)	0.0113	0.88	197.9730
	Interference Check Solution A	Ti (336.122 nm)	0.0031	17.53	599.5596
	Interference Check Solution A	Tl (190.794 nm)	-0.0001 u	> 100.00	-1.3419
	Interference Check Solution A	V (292.401 nm)	0.0014	17.11	12.5556
	Interference Check Solution A	Y (360.074 nm)	0.90	0.27	439176.65
	Interference Check Solution A	Y_R (360.074 nm)	0.90	0.27	438031.22
	Interference Check Solution A	Zn (213.857 nm)	0.0133 K	0.20	854.3255 K
6/10/2024 23:33:51	Interference Check Solution AB	Ag (328.068 nm)	0.1999	0.20	11109.1728
	Interference Check Solution AB	Al (237.312 nm)	250.1329 o	0.15	618331.1103
	Interference Check Solution AB	As (188.980 nm)	0.1001	0.95	167.6877
	Interference Check Solution AB	B (249.772 nm)	0.0930	0.68	3024.1301
	Interference Check Solution AB	Ba (230.424 nm)	0.4963	0.29	27030.8678
	Interference Check Solution AB	Be (313.107 nm)	0.4998	0.20	548558.7295
	Interference Check Solution AB	Ca (317.933 nm)	238.7829 o	0.31	8508291.5854
	Interference Check Solution AB	Cd (214.439 nm)	0.9764	0.36	55627.8914
	Interference Check Solution AB	Co (230.786 nm)	0.4824	0.24	8738.4356
	Interference Check Solution AB	Cr (267.716 nm)	0.5232	0.30	27201.2883
	Interference Check Solution AB	Cu (327.395 nm)	0.5403	0.11	23692.1095
	Interference Check Solution AB	Fe (234.350 nm)	93.8949 o	0.33	1709644.0295
	Interference Check Solution AB	K (766.491 nm)	0.0083 u	> 100.00	-182.9437
	Interference Check Solution AB	Mg (279.078 nm)	263.2529 o	0.30	860257.9051
	Interference Check Solution AB	Mn (257.610 nm)	0.4981	0.29	166346.4219
	Interference Check Solution AB	Mo (202.032 nm)	0.0013	25.43	25.1786
	Interference Check Solution AB	Na (588.995 nm)	-0.0626 u	7.37	-14475.9205
	Interference Check Solution AB	Ni (230.299 nm)	0.9879	0.26	11625.8268
	Interference Check Solution AB	Pb (220.353 nm)	0.0520	1.56	279.2350
	Interference Check Solution AB	Sb (217.582 nm)	0.5889	0.53	1100.4999
	Interference Check Solution AB	Se (196.026 nm)	0.0462	0.95	38.4543
	Interference Check Solution AB	Si (252.851 nm)	0.0872	2.17	364.7598

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Interference Check Solution AB	Sn (189.925 nm)	0.0020	43.82	7.8555
	Interference Check Solution AB	Sr (216.596 nm)	0.0113	0.67	197.7808
	Interference Check Solution AB	Ti (336.122 nm)	0.0028	9.73	565.6447
	Interference Check Solution AB	Tl (190.794 nm)	0.0978	2.88	94.3324
	Interference Check Solution AB	V (292.401 nm)	0.5222	0.30	19755.5006
	Interference Check Solution AB	Y (360.074 nm)	0.89	0.22	437253.07
	Interference Check Solution AB	Y_R (360.074 nm)	0.89	0.22	436099.67
	Interference Check Solution AB	Zn (213.857 nm)	1.0313	0.21	66014.3649
6/10/2024 23:37:05	Continuing Calibration Verification1	Ag (328.068 nm)	0.5036	0.15	28313.7647
	Continuing Calibration Verification1	Al (237.312 nm)	9.7416	0.07	24093.2425
	Continuing Calibration Verification1	As (188.980 nm)	0.9622	0.24	1629.7184
	Continuing Calibration Verification1	B (249.772 nm)	2.3939	0.18	77737.8484
	Continuing Calibration Verification1	Ba (230.424 nm)	9.5156	0.15	518108.1172
	Continuing Calibration Verification1	Be (313.107 nm)	0.2405	0.27	263947.5293
	Continuing Calibration Verification1	Ca (317.933 nm)	25.7181	0.30	918831.1534
	Continuing Calibration Verification1	Cd (214.439 nm)	0.4985	0.25	28399.2861
	Continuing Calibration Verification1	Co (230.786 nm)	2.4546	0.62	44501.2938
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5178	0.25	26920.5230
	Continuing Calibration Verification1	Cu (327.395 nm)	1.2082	0.10	53011.1754
	Continuing Calibration Verification1	Fe (234.350 nm)	5.0179	0.24	91366.3226
	Continuing Calibration Verification1	K (766.491 nm)	24.0926	0.05	26247.1838
	Continuing Calibration Verification1	Mg (279.078 nm)	25.2910	0.24	82618.9943
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7386	0.24	246674.7281
	Continuing Calibration Verification1	Mo (202.032 nm)	2.6600	0.25	27778.5470
	Continuing Calibration Verification1	Na (588.995 nm)	25.3821	0.25	332040.9382
	Continuing Calibration Verification1	Ni (230.299 nm)	2.0462	0.22	24053.3949
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5141	0.37	2692.0951
	Continuing Calibration Verification1	Sb (217.582 nm)	4.6571	0.41	8657.4678
	Continuing Calibration Verification1	Se (196.026 nm)	0.4707	1.19	347.8847
	Continuing Calibration Verification1	Si (252.851 nm)	9.8153	0.48	37432.3795
	Continuing Calibration Verification1	Sn (189.925 nm)	4.9386	0.25	12163.6413
	Continuing Calibration Verification1	Sr (216.596 nm)	2.4566	0.35	43235.1452
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5046	0.16	362019.0790
	Continuing Calibration Verification1	Tl (190.794 nm)	0.9627	0.28	939.5242
	Continuing Calibration Verification1	V (292.401 nm)	2.5105	0.27	95138.6088
	Continuing Calibration Verification1	Y (360.074 nm)	0.98	0.22	478658.42
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.98	0.22	477418.79
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9830	0.26	62918.4162
6/10/2024 23:40:18	Continuing Calibration Blank1	Ag (328.068 nm)	-0.0004 u	33.02	-240.0424
	Continuing Calibration Blank1	Al (237.312 nm)	0.0039	55.08	21.8882
	Continuing Calibration Blank1	As (188.980 nm)	-0.0005 u	> 100.00	-2.8035
	Continuing Calibration Blank1	B (249.772 nm)	0.0015	9.63	54.5815
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0006	5.08	42.6800
	Continuing Calibration Blank1	Be (313.107 nm)	0.0001	5.99	84.7449
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0075	2.98	3010.2494
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0001	73.48	7.5542
	Continuing Calibration Blank1	Co (230.786 nm)	0.0002	64.20	-5.2182
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0001 u	> 100.00	9.2744
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0005	19.93	-4.5379
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0040	34.02	72.0219
	Continuing Calibration Blank1	K (766.491 nm)	0.0737	19.45	-111.1577
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0024	19.24	-21.9522
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0001	6.39	43.9353
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0031	40.96	44.4490
	Continuing Calibration Blank1	Na (588.995 nm)	0.0242	21.51	-13292.7228
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0000 u	> 100.00	25.0009
	Continuing Calibration Blank1	Pb (220.353 nm)	-0.0002 u	> 100.00	7.1145

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0031	12.68	12.3478
	Continuing Calibration Blank1	Se (196.026 nm)	-0.0023 u	38.91	3.0926
	Continuing Calibration Blank1	Si (252.851 nm)	-0.0041 u	16.85	17.2123
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0003 u	> 100.00	3.7197
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0004	84.32	7.0694
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0030	43.43	595.8074
	Continuing Calibration Blank1	Tl (190.794 nm)	0.0002 u	> 100.00	-1.0348
	Continuing Calibration Blank1	V (292.401 nm)	-0.0001 u	> 100.00	-43.9422
	Continuing Calibration Blank1	Y (360.074 nm)	1.03	0.08	501155.32
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.02	0.08	499859.95
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0001	> 100.00	4.8923
6/10/2024 23:43:32	PBW-439600	Ag (328.068 nm)	-0.0005 u	20.24	-241.9428
	PBW-439600	Al (237.312 nm)	0.0009	> 100.00	14.4922
	PBW-439600	As (188.980 nm)	-0.0002 u	> 100.00	-2.3893
	PBW-439600	B (249.772 nm)	0.0019	6.13	68.0892
	PBW-439600	Ba (230.424 nm)	0.0000 u	24.86	8.9633
	PBW-439600	Be (313.107 nm)	0.0000	21.06	57.6466
	PBW-439600	Ca (317.933 nm)	0.0115	1.24	3152.5721
	PBW-439600	Cd (214.439 nm)	0.0002	41.06	12.6055
	PBW-439600	Co (230.786 nm)	0.0000 u	> 100.00	-10.1597
	PBW-439600	Cr (267.716 nm)	0.0005	24.70	31.3353
	PBW-439600	Cu (327.395 nm)	0.0002	21.62	-17.5557
	PBW-439600	Fe (234.350 nm)	0.0138	9.25	249.9556
	PBW-439600	K (766.491 nm)	0.0633	51.61	-122.5765
	PBW-439600	Mg (279.078 nm)	0.0020	25.40	-23.1266
	PBW-439600	Mn (257.610 nm)	0.0003	2.07	117.5144
	PBW-439600	Mo (202.032 nm)	0.0025	7.63	38.2432
	PBW-439600	Na (588.995 nm)	0.0623	3.72	-12773.9621
	PBW-439600	Ni (230.299 nm)	-0.0003 u	68.27	21.7653
	PBW-439600	Pb (220.353 nm)	0.0006	39.14	10.9591
	PBW-439600	Sb (217.582 nm)	0.0113	24.94	27.6541
	PBW-439600	Se (196.026 nm)	-0.0014 u	84.57	3.7438
	PBW-439600	Si (252.851 nm)	0.0039	42.71	47.5042
	PBW-439600	Sn (189.925 nm)	-0.0006 u	64.54	1.5146
	PBW-439600	Sr (216.596 nm)	0.0004	40.28	5.9970
	PBW-439600	Ti (336.122 nm)	0.0010	65.42	297.3406
	PBW-439600	Tl (190.794 nm)	-0.0001 u	> 100.00	-1.2861
	PBW-439600	V (292.401 nm)	-0.0002 u	> 100.00	-48.9727
	PBW-439600	Y (360.074 nm)	1.03	0.24	503034.11
	PBW-439600	Y_R (360.074 nm)	1.03	0.24	501741.91
	PBW-439600	Zn (213.857 nm)	0.0001	31.62	9.8814
6/10/2024 23:46:45	LCSW-439600	Ag (328.068 nm)	0.0489	0.10	2557.0287
	LCSW-439600	Al (237.312 nm)	1.9326	0.19	4789.5354
	LCSW-439600	As (188.980 nm)	0.0379	5.87	62.2459
	LCSW-439600	B (249.772 nm)	0.9517	0.32	30907.6450
	LCSW-439600	Ba (230.424 nm)	1.8808	0.47	102415.0096
	LCSW-439600	Be (313.107 nm)	0.0477	0.25	52357.4223
	LCSW-439600	Ca (317.933 nm)	2.0142	0.33	74490.7084
	LCSW-439600	Cd (214.439 nm)	0.0503	0.39	2867.1402
	LCSW-439600	Co (230.786 nm)	0.4864	0.36	8810.2887
	LCSW-439600	Cr (267.716 nm)	0.2010	0.34	10452.0367
	LCSW-439600	Cu (327.395 nm)	0.2446	0.09	10708.3620
	LCSW-439600	Fe (234.350 nm)	0.9976	0.33	18163.3620
	LCSW-439600	K (766.491 nm)	18.7034	0.15	20333.0604
	LCSW-439600	Mg (279.078 nm)	1.9395	0.33	6308.3695
	LCSW-439600	Mn (257.610 nm)	0.4811	0.26	160692.9695
	LCSW-439600	Mo (202.032 nm)	0.5060	0.29	5293.9527

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	LCSW-439600	Na (588.995 nm)	19.6978	0.18	254629.8727
	LCSW-439600	Ni (230.299 nm)	0.5070	0.24	5978.7476
	LCSW-439600	Pb (220.353 nm)	0.5181	0.41	2712.8465
	LCSW-439600	Sb (217.582 nm)	0.4683	0.29	876.4023
	LCSW-439600	Se (196.026 nm)	0.9625	0.08	706.3549
	LCSW-439600	Si (252.851 nm)	-0.0202 u	14.15	-44.3142
	LCSW-439600	Sn (189.925 nm)	4.8443	0.42	11931.4206
	LCSW-439600	Sr (216.596 nm)	1.9487	0.29	34294.9865
	LCSW-439600	Ti (336.122 nm)	0.4839	0.15	70066.4598
	LCSW-439600	Tl (190.794 nm)	1.9024	0.29	1857.7377
	LCSW-439600	V (292.401 nm)	0.4839	0.30	18305.9572
	LCSW-439600	Y (360.074 nm)	1.01	0.23	492382.20
	LCSW-439600	Y_R (360.074 nm)	1.01	0.23	491108.33
	LCSW-439600	Zn (213.857 nm)	0.4958	0.24	31736.7882
6/10/2024 23:49:59	R2404674-001	Ag (328.068 nm)	-0.0003 u	52.81	-231.4822
	R2404674-001	Al (237.312 nm)	0.0026	54.49	18.6524
	R2404674-001	As (188.980 nm)	-0.0003 u	> 100.00	-2.4537
	R2404674-001	B (249.772 nm)	0.0766	0.07	2491.5499
	R2404674-001	Ba (230.424 nm)	0.0892	0.16	4870.4227
	R2404674-001	Be (313.107 nm)	0.0001	8.64	79.4564
	R2404674-001	Ca (317.933 nm)	52.7432	0.35	1881476.9078
	R2404674-001	Cd (214.439 nm)	0.0002	40.47	16.1080
	R2404674-001	Co (230.786 nm)	-0.0001 u	90.93	-12.2658
	R2404674-001	Cr (267.716 nm)	0.0005	11.43	32.0748
	R2404674-001	Cu (327.395 nm)	0.0007	26.76	5.1217
	R2404674-001	Fe (234.350 nm)	0.0050	16.82	91.4666
	R2404674-001	K (766.491 nm)	0.9431	4.33	842.9111
	R2404674-001	Mg (279.078 nm)	6.6357	0.27	21655.1421
	R2404674-001	Mn (257.610 nm)	0.0006	2.37	210.2103
	R2404674-001	Mo (202.032 nm)	0.0021	47.82	33.5233
	R2404674-001	Na (588.995 nm)	17.0680	0.13	218815.7066
	R2404674-001	Ni (230.299 nm)	0.0004	38.67	30.3940
	R2404674-001	Pb (220.353 nm)	0.0015	23.04	15.6302
	R2404674-001	Sb (217.582 nm)	0.0045	15.83	14.8727
	R2404674-001	Se (196.026 nm)	-0.0013 u	> 100.00	3.8082
	R2404674-001	Si (252.851 nm)	1.6169	0.16	6193.5707
	R2404674-001	Sn (189.925 nm)	0.0008 u	> 100.00	4.9622
	R2404674-001	Sr (216.596 nm)	0.1008	0.18	1773.8001
	R2404674-001	Ti (336.122 nm)	0.0017	38.60	400.7202
	R2404674-001	Tl (190.794 nm)	0.0017 u	> 100.00	0.4178
	R2404674-001	V (292.401 nm)	-0.0001 u	> 100.00	-44.2287
	R2404674-001	Y (360.074 nm)	1.00	0.17	488666.69
	R2404674-001	Y_R (360.074 nm)	1.00	0.17	487400.57
	R2404674-001	Zn (213.857 nm)	0.0058	0.96	371.8021
6/10/2024 23:53:12	R2404674-002	Ag (328.068 nm)	-0.0004 u	27.96	-236.9248
	R2404674-002	Al (237.312 nm)	0.0026	23.41	18.7240
	R2404674-002	As (188.980 nm)	-0.0009 u	89.87	-3.5293
	R2404674-002	B (249.772 nm)	0.0030	6.04	102.3981
	R2404674-002	Ba (230.424 nm)	0.0000 u	> 100.00	13.2848
	R2404674-002	Be (313.107 nm)	0.0000	14.80	55.9845
	R2404674-002	Ca (317.933 nm)	0.0133	2.03	3218.1893
	R2404674-002	Cd (214.439 nm)	0.0002	32.20	14.5729
	R2404674-002	Co (230.786 nm)	0.0001 u	> 100.00	-7.9761
	R2404674-002	Cr (267.716 nm)	0.0005	18.37	33.2870
	R2404674-002	Cu (327.395 nm)	0.0008	9.52	8.1027
	R2404674-002	Fe (234.350 nm)	0.0059	13.76	107.4113
	R2404674-002	K (766.491 nm)	0.0596	61.52	-126.6347

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404674-002	Mg (279.078 nm)	0.0013	21.47	-25.4666
	R2404674-002	Mn (257.610 nm)	0.0001	6.81	58.0061
	R2404674-002	Mo (202.032 nm)	0.0005	> 100.00	17.4404
	R2404674-002	Na (588.995 nm)	0.0921	3.49	-12368.6168
	R2404674-002	Ni (230.299 nm)	-0.0007 u	18.80	17.1453
	R2404674-002	Pb (220.353 nm)	0.0006 u	> 100.00	10.8768
	R2404674-002	Sb (217.582 nm)	0.0063	8.29	18.2511
	R2404674-002	Se (196.026 nm)	0.0023 u	> 100.00	6.4624
	R2404674-002	Si (252.851 nm)	0.0303	3.55	148.2610
	R2404674-002	Sn (189.925 nm)	-0.0003 u	> 100.00	2.2693
	R2404674-002	Sr (216.596 nm)	0.0002	56.50	3.0676
	R2404674-002	Ti (336.122 nm)	0.0004	74.54	215.6056
	R2404674-002	Tl (190.794 nm)	0.0000 u	> 100.00	-1.1812
	R2404674-002	V (292.401 nm)	-0.0001 u	> 100.00	-44.5426
	R2404674-002	Y (360.074 nm)	1.03	0.11	504814.13
	R2404674-002	Y_R (360.074 nm)	1.03	0.10	503493.63
	R2404674-002	Zn (213.857 nm)	0.0045	0.95	290.1254
6/10/2024 23:56:26	R2404674-004	Ag (328.068 nm)	-0.0004 u	21.12	-236.0607
	R2404674-004	Al (237.312 nm)	0.0056	34.64	26.0971
	R2404674-004	As (188.980 nm)	0.0062	20.59	8.4137
	R2404674-004	B (249.772 nm)	0.1979	0.40	6430.8806
	R2404674-004	Ba (230.424 nm)	0.2080	0.22	11334.9286
	R2404674-004	Be (313.107 nm)	0.0001	23.06	83.0338
	R2404674-004	Ca (317.933 nm)	130.4067 o	0.44	4647886.2868
	R2404674-004	Cd (214.439 nm)	0.0003	9.10	21.7554
	R2404674-004	Co (230.786 nm)	0.0009	31.95	6.0783
	R2404674-004	Cr (267.716 nm)	-0.0009 u	11.91	-39.2297
	R2404674-004	Cu (327.395 nm)	0.0010	7.01	16.9577
	R2404674-004	Fe (234.350 nm)	5.4366	0.38	98988.7526
	R2404674-004	K (766.491 nm)	1.9682	0.55	1967.8712
	R2404674-004	Mg (279.078 nm)	21.8828	0.42	71481.2501
	R2404674-004	Mn (257.610 nm)	3.4600 o	0.41	1155503.7565
	R2404674-004	Mo (202.032 nm)	0.0002	84.20	14.4719
	R2404674-004	Na (588.995 nm)	52.3501	0.10	699301.3069
	R2404674-004	Ni (230.299 nm)	0.0025	19.84	54.2049
	R2404674-004	Pb (220.353 nm)	0.0026	15.72	21.5930
	R2404674-004	Sb (217.582 nm)	0.0003 u	> 100.00	7.0744
	R2404674-004	Se (196.026 nm)	-0.0015 u	> 100.00	3.7136
	R2404674-004	Si (252.851 nm)	6.8137	0.28	25995.4429
	R2404674-004	Sn (189.925 nm)	-0.0007 u	68.60	1.3455
	R2404674-004	Sr (216.596 nm)	0.1667	0.41	2933.3735
	R2404674-004	Ti (336.122 nm)	0.0015	13.22	367.4308
	R2404674-004	Tl (190.794 nm)	0.0006 u	> 100.00	-0.6634
	R2404674-004	V (292.401 nm)	0.0003	63.44	-30.9397
	R2404674-004	Y (360.074 nm)	0.98	0.21	476853.00
	R2404674-004	Y_R (360.074 nm)	0.97	0.21	475577.56
	R2404674-004	Zn (213.857 nm)	0.0062	0.78	396.9319
6/10/2024 23:59:40	R2404674-005	Ag (328.068 nm)	-0.0005 u	16.38	-242.5742
	R2404674-005	Al (237.312 nm)	0.0078	16.37	31.4796
	R2404674-005	As (188.980 nm)	-0.0006 u	43.43	-2.9665
	R2404674-005	B (249.772 nm)	0.1136	0.30	3695.5907
	R2404674-005	Ba (230.424 nm)	0.0830	0.39	4532.3651
	R2404674-005	Be (313.107 nm)	0.0001	11.13	93.9413
	R2404674-005	Ca (317.933 nm)	33.7473	0.37	1204837.1196
	R2404674-005	Cd (214.439 nm)	0.0004	20.00	24.1711
	R2404674-005	Co (230.786 nm)	0.0021	3.24	27.9983
	R2404674-005	Cr (267.716 nm)	0.0006	14.73	35.1551

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404674-005	Cu (327.395 nm)	0.0024	10.78	79.1319
	R2404674-005	Fe (234.350 nm)	1.5590	0.36	28385.5187
	R2404674-005	K (766.491 nm)	1.6165	1.64	1581.9410
	R2404674-005	Mg (279.078 nm)	5.2046	0.38	16978.3972
	R2404674-005	Mn (257.610 nm)	0.6487	0.36	216666.7854
	R2404674-005	Mo (202.032 nm)	0.0001	41.94	13.4654
	R2404674-005	Na (588.995 nm)	7.7934	0.07	92510.7140
	R2404674-005	Ni (230.299 nm)	0.0047	7.78	80.0416
	R2404674-005	Pb (220.353 nm)	0.0015	52.11	15.5962
	R2404674-005	Sb (217.582 nm)	0.0001 u	> 100.00	6.8626
	R2404674-005	Se (196.026 nm)	0.0008 u	> 100.00	5.3451
	R2404674-005	Si (252.851 nm)	5.0430	0.33	19248.1664
	R2404674-005	Sn (189.925 nm)	0.0003 u	> 100.00	3.6399
	R2404674-005	Sr (216.596 nm)	0.1169	0.19	2056.9449
	R2404674-005	Ti (336.122 nm)	0.0005	50.64	224.4484
	R2404674-005	Tl (190.794 nm)	0.0004 u	> 100.00	-0.7829
	R2404674-005	V (292.401 nm)	-0.0001 u	> 100.00	-43.2950
	R2404674-005	Y (360.074 nm)	1.01	0.22	493671.26
	R2404674-005	Y_R (360.074 nm)	1.01	0.22	492363.98
	R2404674-005	Zn (213.857 nm)	0.0074	0.67	474.4297
6/11/2024 00:02:54	R2404674-006	Ag (328.068 nm)	-0.0006 u	14.15	-248.9219
	R2404674-006	Al (237.312 nm)	-0.0683 u	1.99	-156.4688
	R2404674-006	As (188.980 nm)	0.0593	3.78	98.6159
	R2404674-006	B (249.772 nm)	0.2293	0.34	7450.4469
	R2404674-006	Ba (230.424 nm)	0.1842	0.31	10042.1579
	R2404674-006	Be (313.107 nm)	0.0001	4.97	112.7581
	R2404674-006	Ca (317.933 nm)	207.7776 o	0.48	7403871.0980
	R2404674-006	Cd (214.439 nm)	0.0015	3.53	87.1579
	R2404674-006	Co (230.786 nm)	0.0187	0.22	329.1274
	R2404674-006	Cr (267.716 nm)	-0.0164 u	1.37	-845.9902
	R2404674-006	Cu (327.395 nm)	0.0013	13.67	29.1028
	R2404674-006	Fe (234.350 nm)	110.5069 o LR	0.49	2012116.3474
	R2404674-006	K (766.491 nm)	1.3724	2.39	1314.0836
	R2404674-006	Mg (279.078 nm)	36.6523	0.38	119746.9150
	R2404674-006	Mn (257.610 nm)	37.8364 o LR	0.44	12635570.6101
	R2404674-006	Mo (202.032 nm)	0.0006	47.16	18.3629
	R2404674-006	Na (588.995 nm)	34.1190	0.08	451023.2400
	R2404674-006	Ni (230.299 nm)	0.0109	6.67	153.3428
	R2404674-006	Pb (220.353 nm)	0.0100	10.84	60.2800
	R2404674-006	Sb (217.582 nm)	-0.0009 u	> 100.00	4.9828
	R2404674-006	Se (196.026 nm)	0.0138	18.43	14.8156
	R2404674-006	Si (252.851 nm)	8.4664	0.29	32292.5094
	R2404674-006	Sn (189.925 nm)	0.0000 u	> 100.00	2.9360
	R2404674-006	Sr (216.596 nm)	0.3425	0.53	6027.1400
	R2404674-006	Ti (336.122 nm)	0.0021	10.07	454.9668
	R2404674-006	Tl (190.794 nm)	0.0118	23.10	10.2843
	R2404674-006	V (292.401 nm)	0.0017	11.47	25.6099
	R2404674-006	Y (360.074 nm)	0.96	0.06	467491.56
	R2404674-006	Y_R (360.074 nm)	0.96	0.06	466248.83
	R2404674-006	Zn (213.857 nm)	0.0184	0.71	1176.3601
6/11/2024 00:06:08	R2404674-007	Ag (328.068 nm)	-0.0005 u	32.60	-243.6622
	R2404674-007	Al (237.312 nm)	0.0027	79.85	19.0690
	R2404674-007	As (188.980 nm)	0.0056	10.28	7.4381
	R2404674-007	B (249.772 nm)	0.1088	0.32	3536.9085
	R2404674-007	Ba (230.424 nm)	0.1889	0.32	10297.8965
	R2404674-007	Be (313.107 nm)	0.0001	13.79	91.3082
	R2404674-007	Ca (317.933 nm)	153.3909 o	0.38	5466593.6342

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404674-007	Cd (214.439 nm)	0.0003	12.62	17.9010
	R2404674-007	Co (230.786 nm)	-0.0003 u	48.91	-14.6887
	R2404674-007	Cr (267.716 nm)	0.0002	18.66	13.9884
	R2404674-007	Cu (327.395 nm)	0.0004	59.31	-9.4246
	R2404674-007	Fe (234.350 nm)	0.9860	0.71	17952.6838
	R2404674-007	K (766.491 nm)	2.0918	1.08	2103.4672
	R2404674-007	Mg (279.078 nm)	21.6693	0.36	70783.5201
	R2404674-007	Mn (257.610 nm)	1.0955	0.32	365865.3043
	R2404674-007	Mo (202.032 nm)	0.0001	95.56	13.2816
	R2404674-007	Na (588.995 nm)	36.2787	0.12	480435.2278
	R2404674-007	Ni (230.299 nm)	0.0014	25.03	41.2509
	R2404674-007	Pb (220.353 nm)	0.0018	32.24	17.2658
	R2404674-007	Sb (217.582 nm)	-0.0005 u	> 100.00	5.6039
	R2404674-007	Se (196.026 nm)	0.0002 u	> 100.00	4.9287
	R2404674-007	Si (252.851 nm)	6.0034	0.38	22907.6008
	R2404674-007	Sn (189.925 nm)	-0.0001 u	> 100.00	2.7685
	R2404674-007	Sr (216.596 nm)	0.2876	0.51	5061.0947
	R2404674-007	Ti (336.122 nm)	0.0015	11.37	365.6775
	R2404674-007	Tl (190.794 nm)	0.0009 u	> 100.00	-0.3524
	R2404674-007	V (292.401 nm)	-0.0002 u	82.63	-46.8843
	R2404674-007	Y (360.074 nm)	0.97	0.24	472939.90
	R2404674-007	Y_R (360.074 nm)	0.97	0.24	471697.82
	R2404674-007	Zn (213.857 nm)	0.0034	3.73	218.6671
6/11/2024 00:09:21	R2404674-008	Ag (328.068 nm)	-0.0005 u	21.19	-242.2463
	R2404674-008	Al (237.312 nm)	-0.0014 u	7.62	8.7559
	R2404674-008	As (188.980 nm)	0.0613	2.46	102.0099
	R2404674-008	B (249.772 nm)	0.1709	0.50	5555.5680
	R2404674-008	Ba (230.424 nm)	0.3366	0.43	18337.5859
	R2404674-008	Be (313.107 nm)	0.0001	12.69	93.6328
	R2404674-008	Ca (317.933 nm)	138.3938 o	0.49	4932390.6299
	R2404674-008	Cd (214.439 nm)	0.0007	12.46	42.6166
	R2404674-008	Co (230.786 nm)	0.0043	3.40	67.5414
	R2404674-008	Cr (267.716 nm)	-0.0012 u	10.11	-56.3596
	R2404674-008	Cu (327.395 nm)	0.0004	17.17	-9.1974
	R2404674-008	Fe (234.350 nm)	47.4959 o	0.48	864807.9815
	R2404674-008	K (766.491 nm)	2.6999	2.01	2770.8212
	R2404674-008	Mg (279.078 nm)	24.8707	0.41	81245.4611
	R2404674-008	Mn (257.610 nm)	3.6043 o	0.43	1203692.6895
	R2404674-008	Mo (202.032 nm)	0.0002 u	> 100.00	13.8224
	R2404674-008	Na (588.995 nm)	34.4623	0.08	455698.1657
	R2404674-008	Ni (230.299 nm)	0.0086	9.39	126.7444
	R2404674-008	Pb (220.353 nm)	0.0032	34.60	24.6684
	R2404674-008	Sb (217.582 nm)	-0.0042 u	29.69	-1.2369
	R2404674-008	Se (196.026 nm)	-0.0016 u	63.28	3.6144
	R2404674-008	Si (252.851 nm)	7.4343	0.27	28359.8174
	R2404674-008	Sn (189.925 nm)	0.0003 u	> 100.00	3.8139
	R2404674-008	Sr (216.596 nm)	0.2511	0.44	4418.7217
	R2404674-008	Ti (336.122 nm)	0.0015	2.61	377.4379
	R2404674-008	Tl (190.794 nm)	0.0018	61.68	0.5403
	R2404674-008	V (292.401 nm)	0.0008	16.28	-8.9103
	R2404674-008	Y (360.074 nm)	0.97	0.16	475356.05
	R2404674-008	Y_R (360.074 nm)	0.97	0.16	474081.96
	R2404674-008	Zn (213.857 nm)	0.0090	0.37	575.2395
6/11/2024 00:12:35	R2404674-009	Ag (328.068 nm)	-0.0008 u	9.94	-260.4401
	R2404674-009	Al (237.312 nm)	-0.1558 u	1.10	-372.8067
	R2404674-009	As (188.980 nm)	0.0315	2.59	51.4465
	R2404674-009	B (249.772 nm)	0.1249	0.17	4060.8700

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404674-009	Ba (230.424 nm)	0.2617	0.37	14262.5573
	R2404674-009	Be (313.107 nm)	0.0001	17.05	126.8013
	R2404674-009	Ca (317.933 nm)	61.6806 o	0.32	2199832.7971
	R2404674-009	Cd (214.439 nm)	0.0015	5.72	87.5789
	R2404674-009	Co (230.786 nm)	0.1717	0.21	3102.9634
	R2404674-009	Cr (267.716 nm)	-0.0330 u	0.41	-1707.8282
	R2404674-009	Cu (327.395 nm)	0.0016	8.90	43.5187
	R2404674-009	Fe (234.350 nm)	114.1506 o LR	0.35	2078461.5188
	R2404674-009	K (766.491 nm)	0.3694	14.89	213.3877
	R2404674-009	Mg (279.078 nm)	11.9336	0.27	38968.3538
	R2404674-009	Mn (257.610 nm)	65.1610 o LR	0.32	21760692.4028
	R2404674-009	Mo (202.032 nm)	0.0028	6.78	40.9858
	R2404674-009	Na (588.995 nm)	0.9830	0.42	-236.0140
	R2404674-009	Ni (230.299 nm)	0.0718	0.29	868.0479
	R2404674-009	Pb (220.353 nm)	0.0149	5.28	85.5566
	R2404674-009	Sb (217.582 nm)	-0.0076 u	20.55	-7.6030
	R2404674-009	Se (196.026 nm)	0.0424	8.72	35.6917
	R2404674-009	Si (252.851 nm)	4.5597	0.18	17406.7142
	R2404674-009	Sn (189.925 nm)	0.0007	50.53	4.7746
	R2404674-009	Sr (216.596 nm)	0.1385	0.28	2436.1516
	R2404674-009	Ti (336.122 nm)	0.0006	25.06	236.9935
	R2404674-009	Tl (190.794 nm)	0.0276	13.64	25.7630
	R2404674-009	V (292.401 nm)	0.0018	13.86	26.8595
	R2404674-009	Y (360.074 nm)	0.99	0.19	482772.52
	R2404674-009	Y_R (360.074 nm)	0.99	0.19	481498.78
	R2404674-009	Zn (213.857 nm)	0.0240	0.84	1539.2582
6/11/2024 00:15:48	Continuing Calibration Verification1	Ag (328.068 nm)	0.5031	0.09	28287.1138
	Continuing Calibration Verification1	Al (237.312 nm)	9.7103	0.08	24015.7288
	Continuing Calibration Verification1	As (188.980 nm)	0.9616	0.26	1628.6873
	Continuing Calibration Verification1	B (249.772 nm)	2.3907	0.17	77633.5637
	Continuing Calibration Verification1	Ba (230.424 nm)	9.5122	0.19	517921.6318
	Continuing Calibration Verification1	Be (313.107 nm)	0.2397	0.29	263075.9711
	Continuing Calibration Verification1	Ca (317.933 nm)	25.6677	0.30	917038.0910
	Continuing Calibration Verification1	Cd (214.439 nm)	0.4974	0.30	28341.2645
	Continuing Calibration Verification1	Co (230.786 nm)	2.4507	0.45	44430.5117
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5170	0.28	26881.6729
	Continuing Calibration Verification1	Cu (327.395 nm)	1.2134	0.31	53235.4132
	Continuing Calibration Verification1	Fe (234.350 nm)	5.0139	0.27	91292.3609
	Continuing Calibration Verification1	K (766.491 nm)	24.0967	0.26	26251.5997
	Continuing Calibration Verification1	Mg (279.078 nm)	25.2391	0.25	82449.4095
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7416	0.19	247681.0691
	Continuing Calibration Verification1	Mo (202.032 nm)	2.6613	0.32	27792.2953
	Continuing Calibration Verification1	Na (588.995 nm)	25.4208	0.31	332566.8401
	Continuing Calibration Verification1	Ni (230.299 nm)	2.0449	0.22	24038.3587
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5118	0.40	2679.7766
	Continuing Calibration Verification1	Sb (217.582 nm)	4.6483	0.04	8641.1138
	Continuing Calibration Verification1	Se (196.026 nm)	0.4662	1.21	344.5891
	Continuing Calibration Verification1	Si (252.851 nm)	9.7933	0.43	37348.5208
	Continuing Calibration Verification1	Sn (189.925 nm)	4.9360	0.24	12157.2259
	Continuing Calibration Verification1	Sr (216.596 nm)	2.4533	0.43	43176.1776
	Continuing Calibration Verification1	Ti (336.122 nm)	2.4991	0.13	361213.8321
	Continuing Calibration Verification1	Tl (190.794 nm)	0.9635	0.14	940.2757
	Continuing Calibration Verification1	V (292.401 nm)	2.5070	0.23	95006.9367
	Continuing Calibration Verification1	Y (360.074 nm)	0.98	0.31	477611.32
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.98	0.31	476362.50
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9807	0.41	62775.1118
6/11/2024 00:19:02	Continuing Calibration Blank1	Ag (328.068 nm)	-0.0004 u	25.61	-237.7184

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank1	Al (237.312 nm)	0.0036	32.60	21.0902
	Continuing Calibration Blank1	As (188.980 nm)	0.0006 u	> 100.00	-1.0017
	Continuing Calibration Blank1	B (249.772 nm)	0.0016	13.85	56.4365
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0007	9.03	50.2045
	Continuing Calibration Blank1	Be (313.107 nm)	0.0001	11.20	91.4859
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0075	1.78	3009.9533
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0001	63.33	4.9073
	Continuing Calibration Blank1	Co (230.786 nm)	0.0003	79.84	-4.1098
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0001 u	> 100.00	12.4070
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0004	86.62	-10.6925
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0040	29.72	73.2587
	Continuing Calibration Blank1	K (766.491 nm)	0.0265	15.94	-162.9319
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0031	15.41	-19.6044
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0004	8.60	140.2772
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0032	31.93	45.8659
	Continuing Calibration Blank1	Na (588.995 nm)	0.0238	26.11	-13299.0507
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0004 u	> 100.00	30.1708
	Continuing Calibration Blank1	Pb (220.353 nm)	0.0007	5.30	11.4225
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0020	27.36	10.3880
	Continuing Calibration Blank1	Se (196.026 nm)	0.0002 u	> 100.00	4.9555
	Continuing Calibration Blank1	Si (252.851 nm)	-0.0028 u	10.63	21.8297
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0013	51.16	6.2846
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0003	30.47	5.1331
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0029	43.10	568.1683
	Continuing Calibration Blank1	Tl (190.794 nm)	0.0009	22.07	-0.2940
	Continuing Calibration Blank1	V (292.401 nm)	0.0000 u	> 100.00	-39.1190
	Continuing Calibration Blank1	Y (360.074 nm)	1.02	0.09	499300.56
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.02	0.09	497995.36
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0001	26.15	4.7302
6/11/2024 00:22:15	R2404674-010	Ag (328.068 nm)	-0.0005 u	35.78	-240.2095
	R2404674-010	Al (237.312 nm)	0.0062	23.14	27.7068
	R2404674-010	As (188.980 nm)	-0.0012 u	> 100.00	-4.0759
	R2404674-010	B (249.772 nm)	0.0364	0.49	1186.9208
	R2404674-010	Ba (230.424 nm)	0.0581	0.31	3172.5080
	R2404674-010	Be (313.107 nm)	0.0001	15.26	77.8430
	R2404674-010	Ca (317.933 nm)	23.7963	0.29	850377.0298
	R2404674-010	Cd (214.439 nm)	0.0002	14.67	14.8098
	R2404674-010	Co (230.786 nm)	0.0000 u	> 100.00	-8.9037
	R2404674-010	Cr (267.716 nm)	0.0012	5.22	66.0632
	R2404674-010	Cu (327.395 nm)	0.0009	38.60	12.5811
	R2404674-010	Fe (234.350 nm)	0.0110	8.36	200.1113
	R2404674-010	K (766.491 nm)	0.7560	2.57	637.6345
	R2404674-010	Mg (279.078 nm)	6.1081	0.19	19930.9736
	R2404674-010	Mn (257.610 nm)	0.0016	0.92	566.4657
	R2404674-010	Mo (202.032 nm)	0.0009	38.14	21.7954
	R2404674-010	Na (588.995 nm)	3.2112	0.16	30109.0165
	R2404674-010	Ni (230.299 nm)	0.0000 u	> 100.00	25.8149
	R2404674-010	Pb (220.353 nm)	0.0012	26.74	14.1997
	R2404674-010	Sb (217.582 nm)	0.0047	21.52	15.3366
	R2404674-010	Se (196.026 nm)	-0.0018 u	> 100.00	3.4768
	R2404674-010	Si (252.851 nm)	3.4712	0.19	13259.1096
	R2404674-010	Sn (189.925 nm)	-0.0005 u	72.86	1.7129
	R2404674-010	Sr (216.596 nm)	0.0737	0.35	1296.9947
	R2404674-010	Ti (336.122 nm)	0.0014	39.58	358.3414
	R2404674-010	Tl (190.794 nm)	0.0010	> 100.00	-0.1922
	R2404674-010	V (292.401 nm)	-0.0001 u	42.23	-46.1705
	R2404674-010	Y (360.074 nm)	1.01	0.21	494328.14

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404674-010	Y_R (360.074 nm)	1.01	0.21	493028.20
	R2404674-010	Zn (213.857 nm)	0.0070	1.56	447.1949
6/11/2024 00:25:29	R2404674-011	Ag (328.068 nm)	-0.0004 u	22.98	-240.1000
	R2404674-011	Al (237.312 nm)	0.0116	3.93	40.9502
	R2404674-011	As (188.980 nm)	0.0003 u	> 100.00	-1.5991
	R2404674-011	B (249.772 nm)	0.1406	0.28	4570.7362
	R2404674-011	Ba (230.424 nm)	0.0519	0.32	2836.2976
	R2404674-011	Be (313.107 nm)	0.0001	16.68	91.0573
	R2404674-011	Ca (317.933 nm)	40.3435	0.32	1439794.7081
	R2404674-011	Cd (214.439 nm)	0.0003	10.81	20.6518
	R2404674-011	Co (230.786 nm)	0.0012	1.42	12.6684
	R2404674-011	Cr (267.716 nm)	0.0000 u	> 100.00	8.3609
	R2404674-011	Cu (327.395 nm)	0.0009	28.03	10.3230
	R2404674-011	Fe (234.350 nm)	1.9148	0.26	34863.8550
	R2404674-011	K (766.491 nm)	1.5571	0.72	1516.6966
	R2404674-011	Mg (279.078 nm)	4.6000	0.20	15002.4629
	R2404674-011	Mn (257.610 nm)	1.3767	0.28	459766.8630
	R2404674-011	Mo (202.032 nm)	0.0004	59.27	15.8286
	R2404674-011	Na (588.995 nm)	16.1930	0.12	206899.5409
	R2404674-011	Ni (230.299 nm)	0.0024	2.38	53.3081
	R2404674-011	Pb (220.353 nm)	0.0015	35.23	15.9866
	R2404674-011	Sb (217.582 nm)	0.0026	51.88	11.3976
	R2404674-011	Se (196.026 nm)	0.0016 u	> 100.00	5.9636
	R2404674-011	Si (252.851 nm)	3.2200	0.17	12302.0423
	R2404674-011	Sn (189.925 nm)	0.0000 u	> 100.00	2.9982
	R2404674-011	Sr (216.596 nm)	0.1172	0.27	2062.1516
	R2404674-011	Ti (336.122 nm)	0.0009	44.29	281.7306
	R2404674-011	Tl (190.794 nm)	0.0000 u	> 100.00	-1.2271
	R2404674-011	V (292.401 nm)	0.0000 u	> 100.00	-39.1063
	R2404674-011	Y (360.074 nm)	1.00	0.28	489739.11
	R2404674-011	Y_R (360.074 nm)	1.00	0.28	488457.41
	R2404674-011	Zn (213.857 nm)	0.0065	0.88	418.4177
6/11/2024 00:28:42	R2404674-011S	Ag (328.068 nm)	0.0490	0.22	2562.0775
	R2404674-011S	Al (237.312 nm)	1.9530	0.07	4839.9215
	R2404674-011S	As (188.980 nm)	0.0392	6.39	64.4185
	R2404674-011S	B (249.772 nm)	1.1048	0.25	35880.1171
	R2404674-011S	Ba (230.424 nm)	1.9263	0.46	104894.7443
	R2404674-011S	Be (313.107 nm)	0.0482	0.31	52973.8424
	R2404674-011S	Ca (317.933 nm)	42.3940	0.45	1512837.3133
	R2404674-011S	Cd (214.439 nm)	0.0496	0.33	2826.4179
	R2404674-011S	Co (230.786 nm)	0.4859	0.31	8801.6396
	R2404674-011S	Cr (267.716 nm)	0.2022	0.38	10515.7714
	R2404674-011S	Cu (327.395 nm)	0.2444	0.06	10701.5168
	R2404674-011S	Fe (234.350 nm)	2.9153	0.39	53081.8762
	R2404674-011S	K (766.491 nm)	20.6727	0.14	22494.0981
	R2404674-011S	Mg (279.078 nm)	6.5408	0.29	21344.8296
	R2404674-011S	Mn (257.610 nm)	1.8415 o	0.37	614984.7462
	R2404674-011S	Mo (202.032 nm)	0.5145	0.23	5382.7472
	R2404674-011S	Na (588.995 nm)	35.5734	0.07	470829.0764
	R2404674-011S	Ni (230.299 nm)	0.5070	0.47	5978.3221
	R2404674-011S	Pb (220.353 nm)	0.5119	0.25	2680.5864
	R2404674-011S	Sb (217.582 nm)	0.4705	0.22	880.5107
	R2404674-011S	Se (196.026 nm)	0.9720	0.38	713.2659
	R2404674-011S	Si (252.851 nm)	3.2632	0.17	12466.5133
	R2404674-011S	Sn (189.925 nm)	4.8924	0.30	12050.0200
	R2404674-011S	Sr (216.596 nm)	2.0486	0.45	36054.1488
	R2404674-011S	Ti (336.122 nm)	0.4889	0.16	70785.3198

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404674-011S	Tl (190.794 nm)	1.8881	0.47	1843.8146
	R2404674-011S	V (292.401 nm)	0.4897	0.35	18525.7872
	R2404674-011S	Y (360.074 nm)	0.99	0.13	482697.99
	R2404674-011S	Y_R (360.074 nm)	0.99	0.13	481438.73
	R2404674-011S	Zn (213.857 nm)	0.4985	0.22	31908.0013
6/11/2024 00:31:56	R2404674-011SD	Ag (328.068 nm)	0.0488	0.11	2547.5475
	R2404674-011SD	Al (237.312 nm)	1.9274	0.18	4776.7416
	R2404674-011SD	As (188.980 nm)	0.0416	1.64	68.4687
	R2404674-011SD	B (249.772 nm)	1.0968	0.19	35620.6127
	R2404674-011SD	Ba (230.424 nm)	1.9010	0.26	103517.4750
	R2404674-011SD	Be (313.107 nm)	0.0477	0.20	52398.6375
	R2404674-011SD	Ca (317.933 nm)	41.8848	0.22	1494697.6299
	R2404674-011SD	Cd (214.439 nm)	0.0492	0.15	2804.0091
	R2404674-011SD	Co (230.786 nm)	0.4809	0.04	8710.1420
	R2404674-011SD	Cr (267.716 nm)	0.1993	0.11	10365.2631
	R2404674-011SD	Cu (327.395 nm)	0.2416	0.13	10578.5122
	R2404674-011SD	Fe (234.350 nm)	2.8776	0.20	52395.3392
	R2404674-011SD	K (766.491 nm)	20.5766	0.22	22388.6555
	R2404674-011SD	Mg (279.078 nm)	6.4643	0.17	21095.1251
	R2404674-011SD	Mn (257.610 nm)	1.8195 o	0.18	607641.4565
	R2404674-011SD	Mo (202.032 nm)	0.5098	0.21	5334.0097
	R2404674-011SD	Na (588.995 nm)	35.2357	0.05	466230.8992
	R2404674-011SD	Ni (230.299 nm)	0.5007	0.24	5904.5918
	R2404674-011SD	Pb (220.353 nm)	0.5074	0.30	2657.1670
	R2404674-011SD	Sb (217.582 nm)	0.4643	0.03	869.1331
	R2404674-011SD	Se (196.026 nm)	0.9668	0.76	709.5041
	R2404674-011SD	Si (252.851 nm)	3.2331	0.16	12351.9825
	R2404674-011SD	Sn (189.925 nm)	4.8408	0.17	11922.8383
	R2404674-011SD	Sr (216.596 nm)	2.0231	0.17	35605.1436
	R2404674-011SD	Ti (336.122 nm)	0.4822	0.10	69815.1728
	R2404674-011SD	Tl (190.794 nm)	1.8708	0.09	1826.8782
	R2404674-011SD	V (292.401 nm)	0.4842	0.22	18317.1737
	R2404674-011SD	Y (360.074 nm)	0.99	0.34	484709.82
	R2404674-011SD	Y_R (360.074 nm)	0.99	0.34	483437.76
	R2404674-011SD	Zn (213.857 nm)	0.4937	0.04	31603.3905
6/11/2024 00:35:09	R2404674-011A	Ag (328.068 nm)	0.0482	0.59	2513.6313
	R2404674-011A	Al (237.312 nm)	1.9180	0.12	4753.5550
	R2404674-011A	As (188.980 nm)	0.0387	3.24	63.5611
	R2404674-011A	B (249.772 nm)	1.0912	0.14	35438.9605
	R2404674-011A	Ba (230.424 nm)	1.8934	0.53	103101.7644
	R2404674-011A	Be (313.107 nm)	0.0473	0.26	51971.7499
	R2404674-011A	Ca (317.933 nm)	41.1885	0.30	1469893.5305
	R2404674-011A	Cd (214.439 nm)	0.0486	0.37	2768.4813
	R2404674-011A	Co (230.786 nm)	0.4775	0.50	8649.2224
	R2404674-011A	Cr (267.716 nm)	0.1978	0.37	10289.4649
	R2404674-011A	Cu (327.395 nm)	0.2405	0.19	10530.0505
	R2404674-011A	Fe (234.350 nm)	2.8339	0.30	51599.5367
	R2404674-011A	K (766.491 nm)	20.4058	0.22	22201.2805
	R2404674-011A	Mg (279.078 nm)	6.3632	0.30	20764.6895
	R2404674-011A	Mn (257.610 nm)	1.7902 o	0.33	597850.7558
	R2404674-011A	Mo (202.032 nm)	0.5061	0.58	5294.6106
	R2404674-011A	Na (588.995 nm)	34.9356	0.30	462143.0840
	R2404674-011A	Ni (230.299 nm)	0.4970	0.34	5861.5365
	R2404674-011A	Pb (220.353 nm)	0.5030	0.31	2634.1520
	R2404674-011A	Sb (217.582 nm)	0.4649	0.38	870.1056
	R2404674-011A	Se (196.026 nm)	0.9539	0.51	700.1242
	R2404674-011A	Si (252.851 nm)	3.1638	0.13	12087.8446

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404674-011A	Sn (189.925 nm)	4.7966	0.23	11813.9993
	R2404674-011A	Sr (216.596 nm)	2.0062	0.33	35307.1183
	R2404674-011A	Ti (336.122 nm)	0.4797	0.18	69456.5544
	R2404674-011A	Tl (190.794 nm)	1.8582	0.37	1814.5745
	R2404674-011A	V (292.401 nm)	0.4809	0.25	18192.9633
	R2404674-011A	Y (360.074 nm)	0.99	0.22	484568.71
	R2404674-011A	Y_R (360.074 nm)	0.99	0.22	483299.43
	R2404674-011A	Zn (213.857 nm)	0.4922	0.18	31505.2373
6/11/2024 00:38:23	R2404674-011L 5X	Ag (328.068 nm)	-0.0004 u	26.55	-239.1607
	R2404674-011L 5X	Al (237.312 nm)	0.0048	11.86	24.1382
	R2404674-011L 5X	As (188.980 nm)	-0.0004 u	> 100.00	-2.6199
	R2404674-011L 5X	B (249.772 nm)	0.0297	0.57	970.0855
	R2404674-011L 5X	Ba (230.424 nm)	0.0106	0.80	590.4402
	R2404674-011L 5X	Be (313.107 nm)	0.0000	14.94	66.7522
	R2404674-011L 5X	Ca (317.933 nm)	8.2752	0.31	297510.3114
	R2404674-011L 5X	Cd (214.439 nm)	0.0001	6.02	9.8492
	R2404674-011L 5X	Co (230.786 nm)	0.0004	19.59	-1.8093
	R2404674-011L 5X	Cr (267.716 nm)	0.0000 u	> 100.00	4.7376
	R2404674-011L 5X	Cu (327.395 nm)	0.0004	69.80	-9.8217
	R2404674-011L 5X	Fe (234.350 nm)	0.3931	0.40	7157.9032
	R2404674-011L 5X	K (766.491 nm)	0.3809	2.15	225.9194
	R2404674-011L 5X	Mg (279.078 nm)	0.9436	0.18	3053.7870
	R2404674-011L 5X	Mn (257.610 nm)	0.2812	0.31	93921.4241
	R2404674-011L 5X	Mo (202.032 nm)	0.0022	28.50	35.1859
	R2404674-011L 5X	Na (588.995 nm)	3.2489	0.19	30622.4351
	R2404674-011L 5X	Ni (230.299 nm)	0.0005	58.54	30.7223
	R2404674-011L 5X	Pb (220.353 nm)	0.0005	> 100.00	10.6365
	R2404674-011L 5X	Sb (217.582 nm)	-0.0011 u	> 100.00	4.6120
	R2404674-011L 5X	Se (196.026 nm)	0.0000 u	> 100.00	4.7938
	R2404674-011L 5X	Si (252.851 nm)	0.6604	0.58	2549.1101
	R2404674-011L 5X	Sn (189.925 nm)	0.0008	46.77	4.8984
	R2404674-011L 5X	Sr (216.596 nm)	0.0240	0.83	421.0688
	R2404674-011L 5X	Ti (336.122 nm)	0.0010	42.60	303.1410
	R2404674-011L 5X	Tl (190.794 nm)	0.0016	4.21	0.3428
	R2404674-011L 5X	V (292.401 nm)	0.0000 u	> 100.00	-40.5163
	R2404674-011L 5X	Y (360.074 nm)	1.02	0.17	498465.47
	R2404674-011L 5X	Y_R (360.074 nm)	1.02	0.17	497163.04
	R2404674-011L 5X	Zn (213.857 nm)	0.0012	1.36	80.3222
6/11/2024 00:41:37	R2404674-012	Ag (328.068 nm)	-0.0004 u	13.40	-237.0827
	R2404674-012	Al (237.312 nm)	0.0052	8.73	25.1585
	R2404674-012	As (188.980 nm)	-0.0002 u	> 100.00	-2.3118
	R2404674-012	B (249.772 nm)	0.0249	0.77	812.9477
	R2404674-012	Ba (230.424 nm)	0.0301	0.58	1649.8058
	R2404674-012	Be (313.107 nm)	0.0001	19.04	85.2912
	R2404674-012	Ca (317.933 nm)	65.9255 o	0.34	2351038.2381
	R2404674-012	Cd (214.439 nm)	0.0003	11.51	19.0476
	R2404674-012	Co (230.786 nm)	-0.0001 u	93.94	-11.2638
	R2404674-012	Cr (267.716 nm)	0.0008	16.26	46.6868
	R2404674-012	Cu (327.395 nm)	0.0046	5.27	175.6642
	R2404674-012	Fe (234.350 nm)	0.0096	8.18	174.6094
	R2404674-012	K (766.491 nm)	1.2452	4.09	1174.3934
	R2404674-012	Mg (279.078 nm)	11.7295	0.28	38301.3332
	R2404674-012	Mn (257.610 nm)	0.0099	0.40	3332.3584
	R2404674-012	Mo (202.032 nm)	0.0008	67.37	19.9032
	R2404674-012	Na (588.995 nm)	24.9689	0.05	326413.5483
	R2404674-012	Ni (230.299 nm)	0.0005	94.23	30.5733
	R2404674-012	Pb (220.353 nm)	0.0017	50.73	16.7115

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404674-012	Sb (217.582 nm)	-0.0002 u	> 100.00	6.1830
	R2404674-012	Se (196.026 nm)	-0.0029 u	77.39	2.6359
	R2404674-012	Si (252.851 nm)	4.2707	0.26	16305.4458
	R2404674-012	Sn (189.925 nm)	0.0007	64.34	4.7812
	R2404674-012	Sr (216.596 nm)	0.1141	0.24	2006.6134
	R2404674-012	Ti (336.122 nm)	0.0010	28.18	299.2973
	R2404674-012	Tl (190.794 nm)	0.0012	65.78	-0.0025
	R2404674-012	V (292.401 nm)	-0.0001 u	> 100.00	-46.2290
	R2404674-012	Y (360.074 nm)	0.99	0.32	483455.19
	R2404674-012	Y_R (360.074 nm)	0.99	0.32	482166.87
	R2404674-012	Zn (213.857 nm)	0.0158	1.07	1009.4851
6/11/2024 00:44:51	R2404674-013	Ag (328.068 nm)	-0.0003 u	69.88	-233.7931
	R2404674-013	Al (237.312 nm)	-0.0016 u	34.88	8.2874
	R2404674-013	As (188.980 nm)	0.0583	2.66	96.7878
	R2404674-013	B (249.772 nm)	0.1714	0.39	5570.2980
	R2404674-013	Ba (230.424 nm)	0.3342	0.33	18208.3253
	R2404674-013	Be (313.107 nm)	0.0001	3.04	90.0690
	R2404674-013	Ca (317.933 nm)	138.0389 o	0.29	4919748.4749
	R2404674-013	Cd (214.439 nm)	0.0007	9.94	44.2939
	R2404674-013	Co (230.786 nm)	0.0039	3.76	60.8890
	R2404674-013	Cr (267.716 nm)	-0.0010 u	10.34	-45.5829
	R2404674-013	Cu (327.395 nm)	0.0011	32.60	19.2122
	R2404674-013	Fe (234.350 nm)	46.8852 o	0.36	853687.6844
	R2404674-013	K (766.491 nm)	2.6827	1.11	2751.9973
	R2404674-013	Mg (279.078 nm)	24.7585	0.24	80878.9628
	R2404674-013	Mn (257.610 nm)	3.5621 o	0.35	1189583.6067
	R2404674-013	Mo (202.032 nm)	0.0002 u	> 100.00	13.8785
	R2404674-013	Na (588.995 nm)	34.7014	0.27	458954.9170
	R2404674-013	Ni (230.299 nm)	0.0092	8.21	133.2749
	R2404674-013	Pb (220.353 nm)	0.0032	8.04	24.4444
	R2404674-013	Sb (217.582 nm)	-0.0030 u	25.68	1.0031
	R2404674-013	Se (196.026 nm)	-0.0032 u	39.39	2.4293
	R2404674-013	Si (252.851 nm)	7.4387	0.15	28376.8349
	R2404674-013	Sn (189.925 nm)	0.0008	78.43	4.9404
	R2404674-013	Sr (216.596 nm)	0.2478	0.18	4360.3783
	R2404674-013	Ti (336.122 nm)	0.0017	11.17	404.2830
	R2404674-013	Tl (190.794 nm)	0.0034	14.68	2.0976
	R2404674-013	V (292.401 nm)	0.0008	33.11	-8.4527
	R2404674-013	Y (360.074 nm)	0.98	0.37	476636.26
	R2404674-013	Y_R (360.074 nm)	0.97	0.37	475357.99
	R2404674-013	Zn (213.857 nm)	0.0092	0.82	591.3738
6/11/2024 00:48:05	R2404674-014	Ag (328.068 nm)	-0.0005 u	45.80	-242.2324
	R2404674-014	Al (237.312 nm)	0.0044	21.92	23.2361
	R2404674-014	As (188.980 nm)	-0.0007 u	59.33	-3.2295
	R2404674-014	B (249.772 nm)	0.0024	0.33	83.4233
	R2404674-014	Ba (230.424 nm)	-0.0001 u	30.97	7.0712
	R2404674-014	Be (313.107 nm)	0.0000	18.74	74.1114
	R2404674-014	Ca (317.933 nm)	0.0423	1.62	4250.9089
	R2404674-014	Cd (214.439 nm)	0.0003	42.90	17.5004
	R2404674-014	Co (230.786 nm)	-0.0001 u	> 100.00	-12.2547
	R2404674-014	Cr (267.716 nm)	0.0006	18.35	38.2765
	R2404674-014	Cu (327.395 nm)	0.0012	25.90	25.2403
	R2404674-014	Fe (234.350 nm)	0.0142	24.41	258.5788
	R2404674-014	K (766.491 nm)	0.0548	49.07	-131.8675
	R2404674-014	Mg (279.078 nm)	0.0082	5.98	-2.9738
	R2404674-014	Mn (257.610 nm)	0.0002	13.00	80.2303
	R2404674-014	Mo (202.032 nm)	0.0000 u	> 100.00	12.2291

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404674-014	Na (588.995 nm)	0.0387	20.25	-13095.1449
	R2404674-014	Ni (230.299 nm)	-0.0005 u	59.44	19.8466
	R2404674-014	Pb (220.353 nm)	0.0012	99.98	14.1118
	R2404674-014	Sb (217.582 nm)	0.0000 u	> 100.00	6.5473
	R2404674-014	Se (196.026 nm)	-0.0024 u	51.40	3.0533
	R2404674-014	Si (252.851 nm)	0.0183	4.04	102.2340
	R2404674-014	Sn (189.925 nm)	0.0006 u	> 100.00	4.4337
	R2404674-014	Sr (216.596 nm)	0.0004	66.12	6.3373
	R2404674-014	Ti (336.122 nm)	0.0001 u	> 100.00	172.5115
	R2404674-014	Tl (190.794 nm)	-0.0002 u	> 100.00	-1.4317
	R2404674-014	V (292.401 nm)	-0.0003 u	38.82	-51.7675
	R2404674-014	Y (360.074 nm)	1.03	0.08	502275.21
	R2404674-014	Y_R (360.074 nm)	1.03	0.08	500939.61
	R2404674-014	Zn (213.857 nm)	0.0013	2.42	81.1050
6/11/2024 00:51:19	R2404671-016 R2404674-016	Ag (328.068 nm)	-0.0005 u	20.22	-243.9059
	R2404671-016	Al (237.312 nm)	0.0032	59.12	20.0897
	R2404671-016	As (188.980 nm)	0.0003 u	> 100.00	-1.5617
	R2404671-016	B (249.772 nm)	0.0024	7.76	82.8226
	R2404671-016	Ba (230.424 nm)	0.0001	63.72	19.1932
	R2404671-016	Be (313.107 nm)	0.0000	13.27	70.9475
	R2404671-016	Ca (317.933 nm)	0.1229	0.48	7122.2072
	R2404671-016	Cd (214.439 nm)	0.0002	31.95	15.4669
	R2404671-016	Co (230.786 nm)	-0.0001 u	> 100.00	-12.0565
	R2404671-016	Cr (267.716 nm)	0.0007	21.25	43.3725
	R2404671-016	Cu (327.395 nm)	0.0022	4.19	68.4858
	R2404671-016	Fe (234.350 nm)	0.0067	13.97	120.7856
	R2404671-016	K (766.491 nm)	0.0407	40.26	-147.3689
	R2404671-016	Mg (279.078 nm)	0.0187	1.02	31.2727
	R2404671-016	Mn (257.610 nm)	0.0008	3.26	293.2092
	R2404671-016	Mo (202.032 nm)	0.0001 u	> 100.00	13.2458
	R2404671-016	Na (588.995 nm)	0.0640	9.13	-12751.3223
	R2404671-016	Ni (230.299 nm)	-0.0004 u	59.94	20.5858
	R2404671-016	Pb (220.353 nm)	0.0013	19.44	14.6250
	R2404671-016	Sb (217.582 nm)	0.0001 u	> 100.00	6.7563
	R2404671-016	Se (196.026 nm)	-0.0025 u	32.94	2.9833
	R2404671-016	Si (252.851 nm)	0.0121	15.19	78.8227
	R2404671-016	Sn (189.925 nm)	-0.0001 u	> 100.00	2.8570
	R2404671-016	Sr (216.596 nm)	0.0005	65.16	8.3175
	R2404671-016	Ti (336.122 nm)	0.0001	22.18	174.3018
	R2404671-016	Tl (190.794 nm)	0.0009 u	> 100.00	-0.3583
	R2404671-016	V (292.401 nm)	-0.0001 u	> 100.00	-45.0920
	R2404671-016	Y (360.074 nm)	1.03	0.14	503348.70
	R2404671-016	Y_R (360.074 nm)	1.03	0.14	502036.73
	R2404671-016	Zn (213.857 nm)	0.0141	0.64	905.7165
6/11/2024 00:54:32	Continuing Calibration Verification1	Ag (328.068 nm)	0.5012	0.19	28178.1873
	Continuing Calibration Verification1	Al (237.312 nm)	9.6610	0.11	23893.8177
	Continuing Calibration Verification1	As (188.980 nm)	0.9595	0.34	1625.1982
	Continuing Calibration Verification1	B (249.772 nm)	2.3779	0.27	77217.4493
	Continuing Calibration Verification1	Ba (230.424 nm)	9.4909	0.41	516761.2749
	Continuing Calibration Verification1	Be (313.107 nm)	0.2384	0.35	261706.7679
	Continuing Calibration Verification1	Ca (317.933 nm)	25.5699	0.38	913553.6708
	Continuing Calibration Verification1	Cd (214.439 nm)	0.4956	0.48	28236.1232
	Continuing Calibration Verification1	Co (230.786 nm)	2.4471	0.24	44364.2029
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5153	0.42	26789.7978
	Continuing Calibration Verification1	Cu (327.395 nm)	1.2083	0.44	53014.6774
	Continuing Calibration Verification1	Fe (234.350 nm)	4.9677	0.36	90451.8649
	Continuing Calibration Verification1	K (766.491 nm)	24.0339	0.31	26182.7725

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification1	Mg (279.078 nm)	25.1546	0.33	82173.1922
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7356	0.33	245688.6965
	Continuing Calibration Verification1	Mo (202.032 nm)	2.6568	0.34	27745.9004
	Continuing Calibration Verification1	Na (588.995 nm)	25.3552	0.31	331674.2448
	Continuing Calibration Verification1	Ni (230.299 nm)	2.0360	0.35	23933.0702
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5125	0.42	2683.4499
	Continuing Calibration Verification1	Sb (217.582 nm)	4.6271	0.20	8601.8004
	Continuing Calibration Verification1	Se (196.026 nm)	0.4727	0.91	349.3238
	Continuing Calibration Verification1	Si (252.851 nm)	9.7447	0.44	37163.4065
	Continuing Calibration Verification1	Sn (189.925 nm)	4.9132	0.34	12101.1812
	Continuing Calibration Verification1	Sr (216.596 nm)	2.4496	0.33	43111.1204
	Continuing Calibration Verification1	Ti (336.122 nm)	2.4893	0.18	359804.1376
	Continuing Calibration Verification1	Tl (190.794 nm)	0.9522	0.45	929.2745
	Continuing Calibration Verification1	V (292.401 nm)	2.4991	0.31	94706.1894
	Continuing Calibration Verification1	Y (360.074 nm)	0.98	0.28	479565.79
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.98	0.28	478281.62
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9796	0.11	62705.4842
6/11/2024 00:57:46	Continuing Calibration Blank1	Ag (328.068 nm)	-0.0005 u	24.39	-243.0729
	Continuing Calibration Blank1	Al (237.312 nm)	0.0040	44.72	22.1074
	Continuing Calibration Blank1	As (188.980 nm)	-0.0007 u	69.82	-3.1367
	Continuing Calibration Blank1	B (249.772 nm)	0.0016	22.35	56.1462
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0008	3.90	53.2109
	Continuing Calibration Blank1	Be (313.107 nm)	0.0001	20.73	97.8290
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0073	3.65	3001.9750
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0001	60.71	10.2591
	Continuing Calibration Blank1	Co (230.786 nm)	0.0001 u	> 100.00	-8.4453
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0002	23.01	16.7294
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0004	41.85	-8.0720
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0032	29.18	58.4418
	Continuing Calibration Blank1	K (766.491 nm)	0.0516	45.68	-135.4116
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0024	13.53	-21.7990
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0001	4.40	47.9012
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0034	31.50	47.6078
	Continuing Calibration Blank1	Na (588.995 nm)	0.0194	34.16	-13358.0480
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0003	70.81	28.6812
	Continuing Calibration Blank1	Pb (220.353 nm)	0.0006	> 100.00	10.8401
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0028	75.33	11.8653
	Continuing Calibration Blank1	Se (196.026 nm)	-0.0012 u	> 100.00	3.9207
	Continuing Calibration Blank1	Si (252.851 nm)	-0.0037 u	4.79	18.6900
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0001 u	> 100.00	3.3416
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0004	26.68	6.5056
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0030	44.58	581.9926
	Continuing Calibration Blank1	Tl (190.794 nm)	0.0007 u	> 100.00	-0.5250
	Continuing Calibration Blank1	V (292.401 nm)	0.0000 u	> 100.00	-40.5999
	Continuing Calibration Blank1	Y (360.074 nm)	1.02	0.12	498064.96
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.02	0.12	496746.80
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0001	82.69	3.8059
6/11/2024 01:01:01	R2404694-001	Ag (328.068 nm)	-0.0015 u	6.90	-301.7081
	R2404694-001	Al (237.312 nm)	0.0353	5.19	99.4283
	R2404694-001	As (188.980 nm)	0.0003 u	> 100.00	-1.4568
	R2404694-001	B (249.772 nm)	0.0333	0.33	1086.8471
	R2404694-001	Ba (230.424 nm)	0.8119	0.14	44217.7588
	R2404694-001	Be (313.107 nm)	0.0002	5.41	289.9690
	R2404694-001	Ca (317.933 nm)	#### LR	N/A	####
	R2404694-001	Cd (214.439 nm)	0.0003	17.10	21.1966
	R2404694-001	Co (230.786 nm)	0.0000 u	> 100.00	-8.8810
	R2404694-001	Cr (267.716 nm)	0.0130	2.18	680.2972

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404694-001	Cu (327.395 nm)	0.0028	7.54	97.3816
	R2404694-001	Fe (234.350 nm)	0.1339	0.33	2437.7242
	R2404694-001	K (766.491 nm)	111.0162 o LR	0.54	121636.9563
	R2404694-001	Mg (279.078 nm)	18.0303	0.38	58891.5732
	R2404694-001	Mn (257.610 nm)	0.0140	0.37	4680.5912
	R2404694-001	Mo (202.032 nm)	0.0038	14.23	51.4014
	R2404694-001	Na (588.995 nm)	1450.4789 o LR	0.44	19739559.6174
	R2404694-001	Ni (230.299 nm)	0.0149	3.02	199.9162
	R2404694-001	Pb (220.353 nm)	0.0030	8.07	23.5828
	R2404694-001	Sb (217.582 nm)	0.0012 u	> 100.00	8.7685
	R2404694-001	Se (196.026 nm)	-0.0010 u	> 100.00	4.0683
	R2404694-001	Si (252.851 nm)	5.9729	0.06	22791.4268
	R2404694-001	Sn (189.925 nm)	-0.0003 u	> 100.00	2.2530
	R2404694-001	Sr (216.596 nm)	11.9558 o	0.45	210416.7446
	R2404694-001	Ti (336.122 nm)	0.0316	2.45	4723.8515
	R2404694-001	Tl (190.794 nm)	0.0013	53.60	0.0988
	R2404694-001	V (292.401 nm)	0.0000 u	> 100.00	-40.4733
	R2404694-001	Y (360.074 nm)	0.75	0.29	367988.90
	R2404694-001	Y_R (360.074 nm)	0.75	0.29	366960.08
	R2404694-001	Zn (213.857 nm)	0.0017	5.16	108.3255
6/11/2024 01:04:16	R2404694-002	Ag (328.068 nm)	-0.0006 u	15.26	-250.7166
	R2404694-002	Al (237.312 nm)	0.2938	0.82	738.5382
	R2404694-002	As (188.980 nm)	0.0048	46.44	6.1493
	R2404694-002	B (249.772 nm)	0.0694	0.72	2258.6879
	R2404694-002	Ba (230.424 nm)	0.0352	0.41	1928.8966
	R2404694-002	Be (313.107 nm)	0.0001	9.13	159.1744
	R2404694-002	Ca (317.933 nm)	474.2264 o LR	0.41	16894891.4819
	R2404694-002	Cd (214.439 nm)	0.0004	20.26	26.7608
	R2404694-002	Co (230.786 nm)	0.0014	11.81	15.5701
	R2404694-002	Cr (267.716 nm)	0.0024	11.12	128.6629
	R2404694-002	Cu (327.395 nm)	0.0011	11.00	20.1665
	R2404694-002	Fe (234.350 nm)	2.8145	0.41	51245.7412
	R2404694-002	K (766.491 nm)	12.1547	0.62	13146.5424
	R2404694-002	Mg (279.078 nm)	66.1167 o	0.43	216033.7650
	R2404694-002	Mn (257.610 nm)	0.4709	0.41	157262.7247
	R2404694-002	Mo (202.032 nm)	0.0036	5.12	49.2663
	R2404694-002	Na (588.995 nm)	334.2578 o LR	0.13	4538428.9577
	R2404694-002	Ni (230.299 nm)	0.0055	11.91	89.5654
	R2404694-002	Pb (220.353 nm)	0.0021	18.52	19.0442
	R2404694-002	Sb (217.582 nm)	0.0005	47.36	7.5781
	R2404694-002	Se (196.026 nm)	0.0026	53.65	6.6709
	R2404694-002	Si (252.851 nm)	6.7521	0.33	25760.3829
	R2404694-002	Sn (189.925 nm)	0.0004 u	> 100.00	3.9137
	R2404694-002	Sr (216.596 nm)	3.5499	0.45	62475.4336
	R2404694-002	Ti (336.122 nm)	0.0120	4.25	1882.2452
	R2404694-002	Tl (190.794 nm)	0.0021 u	> 100.00	0.8314
	R2404694-002	V (292.401 nm)	0.0001 u	> 100.00	-38.0299
	R2404694-002	Y (360.074 nm)	0.91	0.11	444490.22
	R2404694-002	Y_R (360.074 nm)	0.91	0.11	443272.64
	R2404694-002	Zn (213.857 nm)	0.0035	1.46	224.5572
6/11/2024 01:07:32	R2404694-003	Ag (328.068 nm)	-0.0008 u	12.26	-261.6080
	R2404694-003	Al (237.312 nm)	0.1082	2.02	279.6834
	R2404694-003	As (188.980 nm)	0.0001 u	> 100.00	-1.8976
	R2404694-003	B (249.772 nm)	0.2433	0.43	7906.5503
	R2404694-003	Ba (230.424 nm)	0.1125	0.41	6138.5491
	R2404694-003	Be (313.107 nm)	0.0002	4.33	201.4955
	R2404694-003	Ca (317.933 nm)	985.4749 o LR	0.35	35105782.7184

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404694-003	Cd (214.439 nm)	0.0004	16.36	23.7938
	R2404694-003	Co (230.786 nm)	-0.0005 u	52.79	-18.6227
	R2404694-003	Cr (267.716 nm)	0.0023	5.23	126.7236
	R2404694-003	Cu (327.395 nm)	0.0015	14.93	39.8585
	R2404694-003	Fe (234.350 nm)	5.8587	0.32	106674.3327
	R2404694-003	K (766.491 nm)	71.3647 o	0.41	78123.4052
	R2404694-003	Mg (279.078 nm)	130.6035 o	0.36	426771.2356
	R2404694-003	Mn (257.610 nm)	0.1428	0.29	47708.9918
	R2404694-003	Mo (202.032 nm)	0.0019	5.28	32.2255
	R2404694-003	Na (588.995 nm)	888.7019 o LR	0.22	12089063.4767
	R2404694-003	Ni (230.299 nm)	0.0038	9.79	70.1916
	R2404694-003	Pb (220.353 nm)	0.0028	9.90	22.2954
	R2404694-003	Sb (217.582 nm)	0.0006 u	> 100.00	7.7564
	R2404694-003	Se (196.026 nm)	-0.0013 u	> 100.00	3.8406
	R2404694-003	Si (252.851 nm)	4.0627	0.16	15513.0172
	R2404694-003	Sn (189.925 nm)	-0.0001 u	> 100.00	2.7883
	R2404694-003	Sr (216.596 nm)	8.2033 o	0.42	144374.0830
	R2404694-003	Ti (336.122 nm)	0.0138	1.78	2148.2549
	R2404694-003	Tl (190.794 nm)	0.0028	91.70	1.5089
	R2404694-003	V (292.401 nm)	-0.0004 u	11.63	-57.3206
	R2404694-003	Y (360.074 nm)	0.83	0.15	404422.46
	R2404694-003	Y_R (360.074 nm)	0.83	0.15	403307.81
	R2404694-003	Zn (213.857 nm)	0.0036	2.21	230.2068
6/11/2024 01:10:47	R2404694-004	Ag (328.068 nm)	-0.0006 u	9.83	-249.0156
	R2404694-004	Al (237.312 nm)	0.0052	23.37	25.1398
	R2404694-004	As (188.980 nm)	-0.0003 u	> 100.00	-2.5296
	R2404694-004	B (249.772 nm)	0.0016	6.73	56.8734
	R2404694-004	Ba (230.424 nm)	0.0001	41.26	17.9205
	R2404694-004	Be (313.107 nm)	0.0001	5.79	89.6359
	R2404694-004	Ca (317.933 nm)	0.2447	1.68	11459.5075
	R2404694-004	Cd (214.439 nm)	0.0002	26.20	13.6520
	R2404694-004	Co (230.786 nm)	-0.0002 u	98.50	-13.0082
	R2404694-004	Cr (267.716 nm)	0.0009	4.88	54.8692
	R2404694-004	Cu (327.395 nm)	0.0020	14.43	59.9744
	R2404694-004	Fe (234.350 nm)	0.0160	9.70	290.3126
	R2404694-004	K (766.491 nm)	0.4224	9.48	271.5581
	R2404694-004	Mg (279.078 nm)	0.0283	2.99	62.5922
	R2404694-004	Mn (257.610 nm)	0.0005	3.95	185.8860
	R2404694-004	Mo (202.032 nm)	0.0004	46.27	15.8365
	R2404694-004	Na (588.995 nm)	0.7372	9.81	-3583.4063
	R2404694-004	Ni (230.299 nm)	0.0001 u	> 100.00	26.2720
	R2404694-004	Pb (220.353 nm)	0.0006	24.96	11.1905
	R2404694-004	Sb (217.582 nm)	0.0011 u	> 100.00	8.5595
	R2404694-004	Se (196.026 nm)	0.0018 u	> 100.00	6.0780
	R2404694-004	Si (252.851 nm)	0.0068	20.00	58.7553
	R2404694-004	Sn (189.925 nm)	0.0004 u	> 100.00	4.0106
	R2404694-004	Sr (216.596 nm)	0.0019	3.53	32.7251
	R2404694-004	Ti (336.122 nm)	0.0001 u	> 100.00	168.3473
	R2404694-004	Tl (190.794 nm)	0.0007 u	> 100.00	-0.5096
	R2404694-004	V (292.401 nm)	-0.0002 u	24.46	-46.4640
	R2404694-004	Y (360.074 nm)	1.05	0.23	514397.61
	R2404694-004	Y_R (360.074 nm)	1.05	0.23	513045.46
	R2404694-004	Zn (213.857 nm)	0.0096	0.40	614.3439
6/11/2024 01:14:02	R2404694-004L 5X	Ag (328.068 nm)	-0.0005 u	31.23	-243.9005
	R2404694-004L 5X	Al (237.312 nm)	0.0026	84.38	18.6840
	R2404694-004L 5X	As (188.980 nm)	-0.0016 u	13.61	-4.6553
	R2404694-004L 5X	B (249.772 nm)	0.0002	26.40	13.4881

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404694-004L 5X	Ba (230.424 nm)	0.0000 u	> 100.00	10.0216
	R2404694-004L 5X	Be (313.107 nm)	0.0001	9.94	91.8225
	R2404694-004L 5X	Ca (317.933 nm)	0.0633	1.43	4999.1279
	R2404694-004L 5X	Cd (214.439 nm)	0.0001	> 100.00	6.0198
	R2404694-004L 5X	Co (230.786 nm)	0.0000 u	> 100.00	-10.3440
	R2404694-004L 5X	Cr (267.716 nm)	0.0002	78.76	15.1356
	R2404694-004L 5X	Cu (327.395 nm)	0.0006	45.91	0.3062
	R2404694-004L 5X	Fe (234.350 nm)	0.0043	11.97	78.4679
	R2404694-004L 5X	K (766.491 nm)	0.2170	12.47	46.0961
	R2404694-004L 5X	Mg (279.078 nm)	0.0057	17.24	-11.2400
	R2404694-004L 5X	Mn (257.610 nm)	0.0001	15.22	60.9884
	R2404694-004L 5X	Mo (202.032 nm)	0.0002 u	> 100.00	13.9872
	R2404694-004L 5X	Na (588.995 nm)	0.3574	4.03	-8756.2477
	R2404694-004L 5X	Ni (230.299 nm)	-0.0005 u	> 100.00	19.6291
	R2404694-004L 5X	Pb (220.353 nm)	0.0006 u	> 100.00	10.9626
	R2404694-004L 5X	Sb (217.582 nm)	-0.0001 u	54.00	6.3338
	R2404694-004L 5X	Se (196.026 nm)	-0.0020 u	74.73	3.3425
	R2404694-004L 5X	Si (252.851 nm)	0.0143	2.09	86.9934
	R2404694-004L 5X	Sn (189.925 nm)	-0.0003 u	> 100.00	2.3957
	R2404694-004L 5X	Sr (216.596 nm)	0.0007	36.63	12.2392
	R2404694-004L 5X	Ti (336.122 nm)	0.0001 u	> 100.00	172.3488
	R2404694-004L 5X	Tl (190.794 nm)	0.0009	13.70	-0.2863
	R2404694-004L 5X	V (292.401 nm)	-0.0002 u	> 100.00	-48.5809
	R2404694-004L 5X	Y (360.074 nm)	1.05	0.11	513546.16
	R2404694-004L 5X	Y_R (360.074 nm)	1.05	0.10	512174.95
	R2404694-004L 5X	Zn (213.857 nm)	0.0020	2.49	126.1283
6/11/2024 01:17:18	R2404694-001 20X	Ag (328.068 nm)	-0.0006 u	3.84	-251.1741
	R2404694-001 20X	Al (237.312 nm)	0.0049	6.94	24.4145
	R2404694-001 20X	As (188.980 nm)	-0.0012 u	> 100.00	-4.0445
	R2404694-001 20X	B (249.772 nm)	0.0016	20.27	56.7277
	R2404694-001 20X	Ba (230.424 nm)	0.0428	0.35	2339.7150
	R2404694-001 20X	Be (313.107 nm)	0.0001	15.15	99.9669
	R2404694-001 20X	Ca (317.933 nm)	158.2806 o	0.37	5640765.9069
	R2404694-001 20X	Cd (214.439 nm)	0.0000 u	> 100.00	3.6915
	R2404694-001 20X	Co (230.786 nm)	0.0001	> 100.00	-8.5145
	R2404694-001 20X	Cr (267.716 nm)	0.0007	13.01	44.2369
	R2404694-001 20X	Cu (327.395 nm)	0.0003	69.58	-14.1954
	R2404694-001 20X	Fe (234.350 nm)	0.0080	3.42	145.9806
	R2404694-001 20X	K (766.491 nm)	4.2025	0.76	4419.7921
	R2404694-001 20X	Mg (279.078 nm)	1.0018	0.36	3243.8685
	R2404694-001 20X	Mn (257.610 nm)	0.0007	0.94	267.1687
	R2404694-001 20X	Mo (202.032 nm)	0.0003	58.93	15.1846
	R2404694-001 20X	Na (588.995 nm)	112.4672 o	0.23	1517999.5057
	R2404694-001 20X	Ni (230.299 nm)	0.0010	22.15	37.2018
	R2404694-001 20X	Pb (220.353 nm)	0.0015	42.89	15.8376
	R2404694-001 20X	Sb (217.582 nm)	-0.0022 u	> 100.00	2.4142
	R2404694-001 20X	Se (196.026 nm)	-0.0055 u	89.79	0.7905
	R2404694-001 20X	Si (252.851 nm)	0.2873	0.25	1127.3491
	R2404694-001 20X	Sn (189.925 nm)	0.0004	71.21	3.9035
	R2404694-001 20X	Sr (216.596 nm)	0.6476	0.21	11397.5508
	R2404694-001 20X	Ti (336.122 nm)	0.0016	5.29	381.4003
	R2404694-001 20X	Tl (190.794 nm)	0.0019	26.13	0.6742
	R2404694-001 20X	V (292.401 nm)	-0.0004 u	18.40	-54.5666
	R2404694-001 20X	Y (360.074 nm)	0.97	0.20	475594.28
	R2404694-001 20X	Y_R (360.074 nm)	0.97	0.20	474277.03
	R2404694-001 20X	Zn (213.857 nm)	0.0000 u	> 100.00	-1.8348
6/11/2024 01:20:33	R2404694-002 20X	Ag (328.068 nm)	-0.0006 u	22.39	-248.2992

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404694-002 20X	Al (237.312 nm)	0.0165	6.34	53.0816
	R2404694-002 20X	As (188.980 nm)	0.0008 u	> 100.00	-0.7519
	R2404694-002 20X	B (249.772 nm)	0.0033	1.57	113.6958
	R2404694-002 20X	Ba (230.424 nm)	0.0018	6.37	108.6612
	R2404694-002 20X	Be (313.107 nm)	0.0001	10.74	95.0475
	R2404694-002 20X	Ca (317.933 nm)	27.9489	0.46	998294.5809
	R2404694-002 20X	Cd (214.439 nm)	0.0001	14.81	7.3664
	R2404694-002 20X	Co (230.786 nm)	-0.0001 u	> 100.00	-11.1771
	R2404694-002 20X	Cr (267.716 nm)	0.0002	57.33	16.9950
	R2404694-002 20X	Cu (327.395 nm)	0.0003	65.91	-14.1169
	R2404694-002 20X	Fe (234.350 nm)	0.1488	0.28	2708.0923
	R2404694-002 20X	K (766.491 nm)	0.6370	7.72	507.0416
	R2404694-002 20X	Mg (279.078 nm)	3.4513	0.55	11248.7666
	R2404694-002 20X	Mn (257.610 nm)	0.0246	0.57	8247.2952
	R2404694-002 20X	Mo (202.032 nm)	0.0003 u	> 100.00	15.1744
	R2404694-002 20X	Na (588.995 nm)	17.5101	0.07	224837.1407
	R2404694-002 20X	Ni (230.299 nm)	0.0006	14.93	32.7828
	R2404694-002 20X	Pb (220.353 nm)	0.0009	18.93	12.3994
	R2404694-002 20X	Sb (217.582 nm)	-0.0039 u	52.05	-0.5819
	R2404694-002 20X	Se (196.026 nm)	-0.0012 u	> 100.00	3.9202
	R2404694-002 20X	Si (252.851 nm)	0.3445	0.83	1345.2951
	R2404694-002 20X	Sn (189.925 nm)	0.0001 u	> 100.00	3.3552
	R2404694-002 20X	Sr (216.596 nm)	0.1885	0.42	3316.8630
	R2404694-002 20X	Ti (336.122 nm)	0.0007	28.97	255.8679
	R2404694-002 20X	Tl (190.794 nm)	0.0021	54.49	0.8029
	R2404694-002 20X	V (292.401 nm)	-0.0003 u	51.50	-51.5117
	R2404694-002 20X	Y (360.074 nm)	1.02	0.17	500062.26
	R2404694-002 20X	Y_R (360.074 nm)	1.02	0.17	498712.90
	R2404694-002 20X	Zn (213.857 nm)	0.0001 u	89.07	4.6991
6/11/2024 01:23:48	R2404694-003 20X	Ag (328.068 nm)	-0.0006 u	23.73	-248.8103
	R2404694-003 20X	Al (237.312 nm)	0.0072	21.18	30.0018
	R2404694-003 20X	As (188.980 nm)	-0.0015 u	> 100.00	-4.5560
	R2404694-003 20X	B (249.772 nm)	0.0115	1.09	380.2284
	R2404694-003 20X	Ba (230.424 nm)	0.0058	2.31	326.1706
	R2404694-003 20X	Be (313.107 nm)	0.0001	13.27	112.9314
	R2404694-003 20X	Ca (317.933 nm)	69.1278 o	0.35	2465103.6478
	R2404694-003 20X	Cd (214.439 nm)	0.0001	56.46	5.0821
	R2404694-003 20X	Co (230.786 nm)	-0.0003 u	45.11	-14.9033
	R2404694-003 20X	Cr (267.716 nm)	0.0002	31.18	17.4582
	R2404694-003 20X	Cu (327.395 nm)	0.0002 u	> 100.00	-18.7373
	R2404694-003 20X	Fe (234.350 nm)	0.3078	0.25	5604.3234
	R2404694-003 20X	K (766.491 nm)	2.7886	0.89	2868.1503
	R2404694-003 20X	Mg (279.078 nm)	6.7474	0.25	22020.0482
	R2404694-003 20X	Mn (257.610 nm)	0.0074	0.45	2487.8292
	R2404694-003 20X	Mo (202.032 nm)	0.0002	> 100.00	13.9511
	R2404694-003 20X	Na (588.995 nm)	51.8672	0.12	692724.8082
	R2404694-003 20X	Ni (230.299 nm)	0.0009	38.53	35.9324
	R2404694-003 20X	Pb (220.353 nm)	0.0004	75.05	9.8350
	R2404694-003 20X	Sb (217.582 nm)	-0.0037 u	20.87	-0.2086
	R2404694-003 20X	Se (196.026 nm)	-0.0022 u	> 100.00	3.1587
	R2404694-003 20X	Si (252.851 nm)	0.2058	0.51	816.6657
	R2404694-003 20X	Sn (189.925 nm)	0.0000 u	> 100.00	3.0251
	R2404694-003 20X	Sr (216.596 nm)	0.4376	0.38	7700.3841
	R2404694-003 20X	Ti (336.122 nm)	0.0008	13.54	277.4293
	R2404694-003 20X	Tl (190.794 nm)	0.0011	66.23	-0.1292
	R2404694-003 20X	V (292.401 nm)	-0.0003 u	43.56	-51.7633
	R2404694-003 20X	Y (360.074 nm)	1.00	0.17	487156.03

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404694-003 20X	Y_R (360.074 nm)	1.00	0.17	485870.70
	R2404694-003 20X	Zn (213.857 nm)	0.0000 u	> 100.00	2.3133
6/11/2024 01:27:03	R2404694-004 20X	Ag (328.068 nm)	-0.0005 u	20.23	-242.6660
	R2404694-004 20X	Al (237.312 nm)	0.0030	28.91	19.5930
	R2404694-004 20X	As (188.980 nm)	-0.0021 u	64.65	-5.6173
	R2404694-004 20X	B (249.772 nm)	-0.0002 u	82.55	-1.3739
	R2404694-004 20X	Ba (230.424 nm)	-0.0002 u	16.38	2.1852
	R2404694-004 20X	Be (313.107 nm)	0.0001	5.35	100.4408
	R2404694-004 20X	Ca (317.933 nm)	0.0245	0.65	3615.4839
	R2404694-004 20X	Cd (214.439 nm)	0.0001	66.22	9.1613
	R2404694-004 20X	Co (230.786 nm)	0.0001	> 100.00	-7.6585
	R2404694-004 20X	Cr (267.716 nm)	0.0002	60.96	15.6030
	R2404694-004 20X	Cu (327.395 nm)	0.0002 u	> 100.00	-18.2202
	R2404694-004 20X	Fe (234.350 nm)	0.0022	19.08	39.1279
	R2404694-004 20X	K (766.491 nm)	0.1190	23.51	-61.3992
	R2404694-004 20X	Mg (279.078 nm)	0.0007 u	> 100.00	-27.5462
	R2404694-004 20X	Mn (257.610 nm)	0.0000	44.86	31.5023
	R2404694-004 20X	Mo (202.032 nm)	0.0000 u	> 100.00	12.4055
	R2404694-004 20X	Na (588.995 nm)	0.1610	4.58	-11429.8425
	R2404694-004 20X	Ni (230.299 nm)	-0.0004 u	72.52	21.1307
	R2404694-004 20X	Pb (220.353 nm)	0.0005	38.35	10.4301
	R2404694-004 20X	Sb (217.582 nm)	-0.0016 u	53.74	3.5585
	R2404694-004 20X	Se (196.026 nm)	0.0000 u	> 100.00	4.8036
	R2404694-004 20X	Si (252.851 nm)	0.0150	9.90	89.7522
	R2404694-004 20X	Sn (189.925 nm)	-0.0004 u	> 100.00	1.9875
	R2404694-004 20X	Sr (216.596 nm)	0.0002	54.42	3.6538
	R2404694-004 20X	Ti (336.122 nm)	0.0000 u	> 100.00	159.5489
	R2404694-004 20X	Tl (190.794 nm)	0.0012	99.12	-0.0021
	R2404694-004 20X	V (292.401 nm)	-0.0002 u	27.42	-49.1152
	R2404694-004 20X	Y (360.074 nm)	1.04	0.19	509406.98
	R2404694-004 20X	Y_R (360.074 nm)	1.04	0.19	508059.43
	R2404694-004 20X	Zn (213.857 nm)	0.0004	26.43	23.7804
6/11/2024 01:30:17	Continuing Calibration Verification1	Ag (328.068 nm)	0.4995	0.07	28081.0078
	Continuing Calibration Verification1	Al (237.312 nm)	9.5994	0.08	23741.6135
	Continuing Calibration Verification1	As (188.980 nm)	0.9706	0.62	1644.0961
	Continuing Calibration Verification1	B (249.772 nm)	2.3913	0.22	77652.3298
	Continuing Calibration Verification1	Ba (230.424 nm)	9.5538	0.51	520187.8755
	Continuing Calibration Verification1	Be (313.107 nm)	0.2417	0.35	265273.2882
	Continuing Calibration Verification1	Ca (317.933 nm)	26.0776	0.37	931639.0899
	Continuing Calibration Verification1	Cd (214.439 nm)	0.5111	0.53	29117.3194
	Continuing Calibration Verification1	Co (230.786 nm)	2.4842	0.46	45037.3784
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5229	0.38	27188.0129
	Continuing Calibration Verification1	Cu (327.395 nm)	1.1918	0.32	52290.2114
	Continuing Calibration Verification1	Fe (234.350 nm)	5.0448	0.32	91855.7517
	Continuing Calibration Verification1	K (766.491 nm)	23.7339	0.20	25853.5539
	Continuing Calibration Verification1	Mg (279.078 nm)	25.8064	0.31	84303.4184
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7423	0.34	247901.7490
	Continuing Calibration Verification1	Mo (202.032 nm)	2.6983	0.37	28178.6219
	Continuing Calibration Verification1	Na (588.995 nm)	24.9876	0.43	326667.9748
	Continuing Calibration Verification1	Ni (230.299 nm)	2.0779	0.28	24425.8333
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5254	0.11	2750.8317
	Continuing Calibration Verification1	Sb (217.582 nm)	4.6426	0.22	8630.6190
	Continuing Calibration Verification1	Se (196.026 nm)	0.4754	0.61	351.3165
	Continuing Calibration Verification1	Si (252.851 nm)	9.7524	0.43	37192.8310
	Continuing Calibration Verification1	Sn (189.925 nm)	5.0301	0.42	12389.1579
	Continuing Calibration Verification1	Sr (216.596 nm)	2.5017	0.52	44028.8847
	Continuing Calibration Verification1	Ti (336.122 nm)	2.4922	0.19	360220.4082

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification1	Tl (190.794 nm)	0.9706	0.59	947.2468
	Continuing Calibration Verification1	V (292.401 nm)	2.5188	0.32	95451.4631
	Continuing Calibration Verification1	Y (360.074 nm)	1.00	0.37	490163.10
	Continuing Calibration Verification1	Y_R (360.074 nm)	1.00	0.37	488838.68
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9885	0.10	63270.3590
6/11/2024 01:33:31	Continuing Calibration Blank1	Ag (328.068 nm)	-0.0004 u	33.94	-239.2210
	Continuing Calibration Blank1	Al (237.312 nm)	0.0029	85.92	19.3837
	Continuing Calibration Blank1	As (188.980 nm)	-0.0013 u	> 100.00	-4.2591
	Continuing Calibration Blank1	B (249.772 nm)	0.0013	29.14	48.3432
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0008	15.61	55.2460
	Continuing Calibration Blank1	Be (313.107 nm)	0.0001	10.26	127.4020
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0079	4.33	3025.6341
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0001	57.87	10.1581
	Continuing Calibration Blank1	Co (230.786 nm)	0.0002	30.58	-6.3649
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0003	10.33	20.4792
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0002	65.78	-16.8279
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0031	31.14	56.1473
	Continuing Calibration Blank1	K (766.491 nm)	0.1209	1.91	-59.3170
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0034	24.44	-18.7744
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0001	7.36	47.2874
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0039	28.72	52.5214
	Continuing Calibration Blank1	Na (588.995 nm)	0.1039	3.89	-12208.3427
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0005	64.17	30.8429
	Continuing Calibration Blank1	Pb (220.353 nm)	0.0007	> 100.00	11.7684
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0036	19.42	13.2016
	Continuing Calibration Blank1	Se (196.026 nm)	0.0032	36.49	7.0831
	Continuing Calibration Blank1	Si (252.851 nm)	-0.0043 u	33.38	16.1951
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0006	37.64	4.3841
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0005	41.83	7.5846
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0030	40.68	594.8629
	Continuing Calibration Blank1	Tl (190.794 nm)	0.0013 u	> 100.00	0.0672
	Continuing Calibration Blank1	V (292.401 nm)	0.0001 u	> 100.00	-37.3989
	Continuing Calibration Blank1	Y (360.074 nm)	1.04	0.14	509412.14
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.04	0.14	508060.68
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0001	14.02	8.0980
6/11/2024 01:36:45	Contract Required Detection Limit	Ag (328.068 nm)	0.0081	1.03	243.0386
	Contract Required Detection Limit	Al (237.312 nm)	0.1939	0.94	491.5994
	Contract Required Detection Limit	As (188.980 nm)	0.0188	3.89	29.8248
	Contract Required Detection Limit	B (249.772 nm)	0.1891	0.13	6146.4449
	Contract Required Detection Limit	Ba (230.424 nm)	0.1949	0.24	10621.2875
	Contract Required Detection Limit	Be (313.107 nm)	0.0050	0.42	5477.7437
	Contract Required Detection Limit	Ca (317.933 nm)	1.0675	0.31	40766.6994
	Contract Required Detection Limit	Cd (214.439 nm)	0.0108	0.67	617.1686
	Contract Required Detection Limit	Co (230.786 nm)	0.0504	0.54	904.0630
	Contract Required Detection Limit	Cr (267.716 nm)	0.0098	1.28	514.9884
	Contract Required Detection Limit	Cu (327.395 nm)	0.0242	0.49	1034.3233
	Contract Required Detection Limit	Fe (234.350 nm)	0.1082	0.80	1968.9482
	Contract Required Detection Limit	K (766.491 nm)	1.0285	1.25	936.5884
	Contract Required Detection Limit	Mg (279.078 nm)	1.0337	0.11	3348.2964
	Contract Required Detection Limit	Mn (257.610 nm)	0.0141	0.50	4713.3946
	Contract Required Detection Limit	Mo (202.032 nm)	0.0271	1.05	295.3233
	Contract Required Detection Limit	Na (588.995 nm)	1.0646	0.32	875.5729
	Contract Required Detection Limit	Ni (230.299 nm)	0.0363	2.98	451.8352
	Contract Required Detection Limit	Pb (220.353 nm)	0.0113	3.01	67.0792
	Contract Required Detection Limit	Sb (217.582 nm)	0.0570	0.56	112.4869
	Contract Required Detection Limit	Se (196.026 nm)	0.0094	28.77	11.6202
	Contract Required Detection Limit	Si (252.851 nm)	0.0464	3.60	209.6302

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Contract Required Detection Limit	Sn (189.925 nm)	0.5069	0.13	1251.2291
	Contract Required Detection Limit	Sr (216.596 nm)	0.1006	0.37	1770.4107
	Contract Required Detection Limit	Ti (336.122 nm)	0.0498	1.29	7343.7880
	Contract Required Detection Limit	Tl (190.794 nm)	0.0197	2.21	18.0399
	Contract Required Detection Limit	V (292.401 nm)	0.0494	0.61	1833.6437
	Contract Required Detection Limit	Y (360.074 nm)	1.04	0.42	507496.54
	Contract Required Detection Limit	Y_R (360.074 nm)	1.04	0.42	506144.97
	Contract Required Detection Limit	Zn (213.857 nm)	0.0174	0.64	1112.4263
6/11/2024 01:39:59	Interference Check Solution A	Ag (328.068 nm)	-0.0008 u	16.83	-261.4610
	Interference Check Solution A	Al (237.312 nm)	245.7063 o	0.17	607388.6743
	Interference Check Solution A	As (188.980 nm)	-0.0014 u	> 100.00	-4.3506
	Interference Check Solution A	B (249.772 nm)	0.0988	0.20	3214.7901
	Interference Check Solution A	Ba (230.424 nm)	-0.0005 u	16.81	-16.7302
	Interference Check Solution A	Be (313.107 nm)	0.0002	3.06	290.0763
	Interference Check Solution A	Ca (317.933 nm)	241.7618 o	0.39	8614403.7191
	Interference Check Solution A	Cd (214.439 nm)	-0.0006 u	18.79	-30.8285
	Interference Check Solution A	Co (230.786 nm)	-0.0002 u	> 100.00	-12.9773
	Interference Check Solution A	Cr (267.716 nm)	0.0038	2.81	202.1472
	Interference Check Solution A	Cu (327.395 nm)	0.0084	2.03	341.2343
	Interference Check Solution A	Fe (234.350 nm)	94.5624 o	0.42	1721796.8407
	Interference Check Solution A	K (766.491 nm)	0.0759	10.39	-108.7437
	Interference Check Solution A	Mg (279.078 nm)	268.0940 o	0.35	876078.2974
	Interference Check Solution A	Mn (257.610 nm)	0.0012	1.94	404.1180
	Interference Check Solution A	Mo (202.032 nm)	0.0016	27.89	28.9822
	Interference Check Solution A	Na (588.995 nm)	0.0429	16.02	-13038.7786
	Interference Check Solution A	Ni (230.299 nm)	0.0033	17.00	64.3343
	Interference Check Solution A	Pb (220.353 nm)	0.0042	15.28	29.7032
	Interference Check Solution A	Sb (217.582 nm)	-0.0046 u	55.26	-1.8948
	Interference Check Solution A	Se (196.026 nm)	-0.0015 u	> 100.00	3.6929
	Interference Check Solution A	Si (252.851 nm)	0.0375	6.05	175.4651
	Interference Check Solution A	Sn (189.925 nm)	0.0005 u	> 100.00	4.2103
	Interference Check Solution A	Sr (216.596 nm)	0.0113	3.91	198.5718
	Interference Check Solution A	Ti (336.122 nm)	0.0028	12.59	566.4417
	Interference Check Solution A	Tl (190.794 nm)	0.0011	63.01	-0.1371
	Interference Check Solution A	V (292.401 nm)	0.0014	7.36	10.9108
	Interference Check Solution A	Y (360.074 nm)	0.92	0.30	449246.26
	Interference Check Solution A	Y_R (360.074 nm)	0.92	0.30	448016.97
	Interference Check Solution A	Zn (213.857 nm)	0.0134 K	0.30	860.7389 K
6/11/2024 01:43:13	Interference Check Solution AB	Ag (328.068 nm)	0.1981	0.23	11009.0146
	Interference Check Solution AB	Al (237.312 nm)	246.8707 o	0.23	610267.1580
	Interference Check Solution AB	As (188.980 nm)	0.1005	4.80	168.3625
	Interference Check Solution AB	B (249.772 nm)	0.0966	0.21	3142.0447
	Interference Check Solution AB	Ba (230.424 nm)	0.5005	0.23	27262.0471
	Interference Check Solution AB	Be (313.107 nm)	0.5002	0.26	549045.7316
	Interference Check Solution AB	Ca (317.933 nm)	243.2407 o	0.29	8667080.5261
	Interference Check Solution AB	Cd (214.439 nm)	1.0058	0.30	57301.6790
	Interference Check Solution AB	Co (230.786 nm)	0.4888	0.23	8853.1214
	Interference Check Solution AB	Cr (267.716 nm)	0.5310	0.25	27607.1402
	Interference Check Solution AB	Cu (327.395 nm)	0.5310	0.13	23279.9711
	Interference Check Solution AB	Fe (234.350 nm)	95.1145 o	0.26	1731850.2800
	Interference Check Solution AB	K (766.491 nm)	0.0425	14.11	-145.4184
	Interference Check Solution AB	Mg (279.078 nm)	269.5516 o	0.29	880841.4772
	Interference Check Solution AB	Mn (257.610 nm)	0.5014	0.22	167471.8914
	Interference Check Solution AB	Mo (202.032 nm)	0.0009	24.24	21.2857
	Interference Check Solution AB	Na (588.995 nm)	0.0114	17.34	-13467.9432
	Interference Check Solution AB	Ni (230.299 nm)	1.0057	0.15	11835.4996
	Interference Check Solution AB	Pb (220.353 nm)	0.0541	3.24	290.6230

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Interference Check Solution AB	Sb (217.582 nm)	0.5817	0.60	1087.2202
	Interference Check Solution AB	Se (196.026 nm)	0.0500	14.85	41.2404
	Interference Check Solution AB	Si (252.851 nm)	0.0836	2.26	351.2429
	Interference Check Solution AB	Sn (189.925 nm)	0.0008 u	> 100.00	5.0780
	Interference Check Solution AB	Sr (216.596 nm)	0.0114	1.65	199.4292
	Interference Check Solution AB	Ti (336.122 nm)	0.0027	5.16	544.1283
	Interference Check Solution AB	Tl (190.794 nm)	0.1000	0.73	96.5538
	Interference Check Solution AB	V (292.401 nm)	0.5253	0.34	19876.2105
	Interference Check Solution AB	Y (360.074 nm)	0.92	0.48	449519.39
	Interference Check Solution AB	Y_R (360.074 nm)	0.92	0.48	448292.50
	Interference Check Solution AB	Zn (213.857 nm)	1.0378	0.17	66430.6807
6/11/2024 01:46:26	Continuing Calibration Verification1	Ag (328.068 nm)	0.4980	0.12	27997.0263
	Continuing Calibration Verification1	Al (237.312 nm)	9.5976	0.02	23737.2652
	Continuing Calibration Verification1	As (188.980 nm)	0.9701	0.24	1643.2278
	Continuing Calibration Verification1	B (249.772 nm)	2.3848	0.20	77441.7555
	Continuing Calibration Verification1	Ba (230.424 nm)	9.5537	0.50	520181.7854
	Continuing Calibration Verification1	Be (313.107 nm)	0.2415	0.23	265073.4511
	Continuing Calibration Verification1	Ca (317.933 nm)	26.1205	0.21	933166.7396
	Continuing Calibration Verification1	Cd (214.439 nm)	0.5109	0.22	29108.4729
	Continuing Calibration Verification1	Co (230.786 nm)	2.4772	0.21	44911.4981
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5224	0.25	27163.0594
	Continuing Calibration Verification1	Cu (327.395 nm)	1.1931	0.37	52344.2633
	Continuing Calibration Verification1	Fe (234.350 nm)	5.0696	0.20	92306.5244
	Continuing Calibration Verification1	K (766.491 nm)	23.6149	0.01	25722.8796
	Continuing Calibration Verification1	Mg (279.078 nm)	25.8485	0.17	84440.8300
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7416	0.21	247673.4210
	Continuing Calibration Verification1	Mo (202.032 nm)	2.6942	0.23	28136.0057
	Continuing Calibration Verification1	Na (588.995 nm)	24.8144	0.25	324309.4077
	Continuing Calibration Verification1	Ni (230.299 nm)	2.0760	0.22	24403.6494
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5232	0.12	2739.5731
	Continuing Calibration Verification1	Sb (217.582 nm)	4.6196	0.13	8587.8716
	Continuing Calibration Verification1	Se (196.026 nm)	0.4737	1.23	350.0822
	Continuing Calibration Verification1	Si (252.851 nm)	9.7212	0.42	37073.7638
	Continuing Calibration Verification1	Sn (189.925 nm)	5.0234	0.06	12372.4744
	Continuing Calibration Verification1	Sr (216.596 nm)	2.4973	0.35	43950.7782
	Continuing Calibration Verification1	Ti (336.122 nm)	2.4898	0.11	359879.2619
	Continuing Calibration Verification1	Tl (190.794 nm)	0.9698	0.28	946.4235
	Continuing Calibration Verification1	V (292.401 nm)	2.5186	0.18	95444.2373
	Continuing Calibration Verification1	Y (360.074 nm)	1.01	0.22	491461.94
	Continuing Calibration Verification1	Y_R (360.074 nm)	1.00	0.22	490124.00
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9881	0.24	63248.6118
6/11/2024 01:49:40	Continuing Calibration Blank1	Ag (328.068 nm)	-0.0006 u	50.39	-247.9904
	Continuing Calibration Blank1	Al (237.312 nm)	0.0046	38.43	23.7087
	Continuing Calibration Blank1	As (188.980 nm)	0.0002 u	> 100.00	-1.6583
	Continuing Calibration Blank1	B (249.772 nm)	0.0015	19.80	53.7349
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0008	2.89	54.9124
	Continuing Calibration Blank1	Be (313.107 nm)	0.0001	3.40	131.2623
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0092	1.57	3072.1409
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0002	41.01	10.8991
	Continuing Calibration Blank1	Co (230.786 nm)	0.0004 u	> 100.00	-2.4759
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0001	> 100.00	12.4020
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0005	32.01	-6.3214
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0042	27.93	75.2268
	Continuing Calibration Blank1	K (766.491 nm)	0.1031	27.30	-78.9413
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0037	3.21	-17.6750
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0001	3.83	50.0753
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0037	29.08	50.5195

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank1	Na (588.995 nm)	0.0506	11.06	-12933.2717
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0001 u	> 100.00	26.5242
	Continuing Calibration Blank1	Pb (220.353 nm)	0.0006	62.83	11.1500
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0041	41.66	14.1554
	Continuing Calibration Blank1	Se (196.026 nm)	0.0005 u	> 100.00	5.1504
	Continuing Calibration Blank1	Si (252.851 nm)	-0.0047 u	17.00	14.9191
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0008 u	> 100.00	4.8967
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0005	26.94	8.1119
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0030	41.81	585.9068
	Continuing Calibration Blank1	Tl (190.794 nm)	-0.0002 u	> 100.00	-1.3928
	Continuing Calibration Blank1	V (292.401 nm)	0.0001 u	> 100.00	-37.9625
	Continuing Calibration Blank1	Y (360.074 nm)	1.05	0.03	510688.44
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.04	0.03	509323.88
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0001	24.06	9.9024
6/11/2024 01:52:54	PBW-439601	Ag (328.068 nm)	-0.0006 u	18.11	-249.3382
	PBW-439601	Al (237.312 nm)	0.0026	30.48	18.7496
	PBW-439601	As (188.980 nm)	-0.0004 u	> 100.00	-2.6742
	PBW-439601	B (249.772 nm)	0.0017	13.83	62.3188
	PBW-439601	Ba (230.424 nm)	-0.0001 u	> 100.00	7.7223
	PBW-439601	Be (313.107 nm)	0.0001	23.30	95.6638
	PBW-439601	Ca (317.933 nm)	0.0100	1.22	3099.5228
	PBW-439601	Cd (214.439 nm)	0.0002	18.40	11.0950
	PBW-439601	Co (230.786 nm)	-0.0002 u	> 100.00	-12.6876
	PBW-439601	Cr (267.716 nm)	0.0002	16.50	14.7390
	PBW-439601	Cu (327.395 nm)	0.0004	40.42	-10.4768
	PBW-439601	Fe (234.350 nm)	0.0030	30.80	53.5186
	PBW-439601	K (766.491 nm)	0.0631	46.57	-122.8013
	PBW-439601	Mg (279.078 nm)	0.0016	35.12	-24.5856
	PBW-439601	Mn (257.610 nm)	0.0001	8.32	39.8264
	PBW-439601	Mo (202.032 nm)	0.0007	12.64	19.2053
	PBW-439601	Na (588.995 nm)	0.0413	8.47	-13059.7630
	PBW-439601	Ni (230.299 nm)	-0.0003 u	> 100.00	21.3323
	PBW-439601	Pb (220.353 nm)	0.0005	73.47	10.7759
	PBW-439601	Sb (217.582 nm)	0.0078	11.51	21.1516
	PBW-439601	Se (196.026 nm)	0.0011 u	> 100.00	5.6142
	PBW-439601	Si (252.851 nm)	0.0020	11.89	40.4563
	PBW-439601	Sn (189.925 nm)	0.0003	87.41	3.6874
	PBW-439601	Sr (216.596 nm)	0.0002	33.86	3.7083
	PBW-439601	Ti (336.122 nm)	0.0008	71.55	267.8042
	PBW-439601	Tl (190.794 nm)	0.0009 u	> 100.00	-0.2811
	PBW-439601	V (292.401 nm)	-0.0001 u	92.89	-45.3565
	PBW-439601	Y (360.074 nm)	1.05	0.05	513616.06
	PBW-439601	Y_R (360.074 nm)	1.05	0.05	512244.08
	PBW-439601	Zn (213.857 nm)	-0.0003 u	6.99	-20.9302
6/11/2024 01:56:09	LCSW-439601	Ag (328.068 nm)	0.0484	0.45	2530.0038
	LCSW-439601	Al (237.312 nm)	1.9145	0.07	4744.9156
	LCSW-439601	As (188.980 nm)	0.0387	5.77	63.6592
	LCSW-439601	B (249.772 nm)	0.9475	0.31	30771.6303
	LCSW-439601	Ba (230.424 nm)	1.9033	0.34	103642.1725
	LCSW-439601	Be (313.107 nm)	0.0482	0.38	52969.8576
	LCSW-439601	Ca (317.933 nm)	2.0596	0.39	76106.6648
	LCSW-439601	Cd (214.439 nm)	0.0520	0.65	2962.8325
	LCSW-439601	Co (230.786 nm)	0.4933	0.22	8935.9607
	LCSW-439601	Cr (267.716 nm)	0.2040	0.38	10607.7895
	LCSW-439601	Cu (327.395 nm)	0.2421	0.34	10600.8951
	LCSW-439601	Fe (234.350 nm)	1.0120	0.41	18425.7786
	LCSW-439601	K (766.491 nm)	18.4031	0.33	20003.4944

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	LCSW-439601	Mg (279.078 nm)	1.9949	0.29	6489.4964
	LCSW-439601	Mn (257.610 nm)	0.4859	0.40	162280.2841
	LCSW-439601	Mo (202.032 nm)	0.5173	0.28	5411.5710
	LCSW-439601	Na (588.995 nm)	19.3280	0.05	249593.3070
	LCSW-439601	Ni (230.299 nm)	0.5178	0.53	6105.9334
	LCSW-439601	Pb (220.353 nm)	0.5332	0.32	2791.5477
	LCSW-439601	Sb (217.582 nm)	0.4668	0.30	873.6395
	LCSW-439601	Se (196.026 nm)	0.9775	0.37	717.3353
	LCSW-439601	Si (252.851 nm)	-0.0225 u	6.39	-53.0573
	LCSW-439601	Sn (189.925 nm)	4.9760	0.31	12255.9139
	LCSW-439601	Sr (216.596 nm)	2.0016	0.43	35226.9996
	LCSW-439601	Ti (336.122 nm)	0.4849	0.27	70207.2372
	LCSW-439601	Tl (190.794 nm)	1.9296	0.15	1884.2918
	LCSW-439601	V (292.401 nm)	0.4885	0.32	18479.9816
	LCSW-439601	Y (360.074 nm)	1.03	0.16	504664.26
	LCSW-439601	Y_R (360.074 nm)	1.03	0.16	503309.67
	LCSW-439601	Zn (213.857 nm)	0.5009	0.30	32061.4834
6/11/2024 01:59:24	R2404782-001	Ag (328.068 nm)	-0.0005 u	26.45	-243.6894
	R2404782-001	Al (237.312 nm)	0.4133	0.62	1033.9281
	R2404782-001	As (188.980 nm)	-0.0002 u	> 100.00	-2.3463
	R2404782-001	B (249.772 nm)	0.0281	0.82	916.7539
	R2404782-001	Ba (230.424 nm)	0.0507	0.20	2773.2119
	R2404782-001	Be (313.107 nm)	0.0001	7.18	136.3212
	R2404782-001	Ca (317.933 nm)	142.9177 o	0.28	5093534.1009
	R2404782-001	Cd (214.439 nm)	0.0003	7.04	21.0161
	R2404782-001	Co (230.786 nm)	-0.0002 u	> 100.00	-13.1649
	R2404782-001	Cr (267.716 nm)	0.0014	13.84	76.2804
	R2404782-001	Cu (327.395 nm)	0.0039	1.33	142.5155
	R2404782-001	Fe (234.350 nm)	0.2643	0.43	4811.4547
	R2404782-001	K (766.491 nm)	4.1221	0.43	4331.5286
	R2404782-001	Mg (279.078 nm)	82.4985 o	0.20	269568.0422
	R2404782-001	Mn (257.610 nm)	0.0056	0.87	1875.6647
	R2404782-001	Mo (202.032 nm)	0.0060	18.69	75.0110
	R2404782-001	Na (588.995 nm)	9.4022	0.08	114419.4105
	R2404782-001	Ni (230.299 nm)	0.0026	6.30	56.2997
	R2404782-001	Pb (220.353 nm)	0.0038	16.51	27.9440
	R2404782-001	Sb (217.582 nm)	0.0008 u	> 100.00	8.1220
	R2404782-001	Se (196.026 nm)	-0.0011 u	> 100.00	3.9910
	R2404782-001	Si (252.851 nm)	7.5099	0.22	28647.9791
	R2404782-001	Sn (189.925 nm)	0.0008	> 100.00	5.1017
	R2404782-001	Sr (216.596 nm)	19.4137 o	0.42	341671.9892
	R2404782-001	Ti (336.122 nm)	0.0072	7.80	1188.5809
	R2404782-001	Tl (190.794 nm)	0.0036	22.88	2.3115
	R2404782-001	V (292.401 nm)	0.0004	14.19	-24.7284
	R2404782-001	Y (360.074 nm)	0.99	0.32	482319.40
	R2404782-001	Y_R (360.074 nm)	0.99	0.32	481002.37
	R2404782-001	Zn (213.857 nm)	0.0110	0.49	706.9638
6/11/2024 02:02:39	R2404782-002	Ag (328.068 nm)	-0.0005 u	12.36	-244.6207
	R2404782-002	Al (237.312 nm)	0.1883	0.75	477.6878
	R2404782-002	As (188.980 nm)	-0.0008 u	> 100.00	-3.3036
	R2404782-002	B (249.772 nm)	0.2054	0.12	6676.0024
	R2404782-002	Ba (230.424 nm)	0.0091	1.28	505.5652
	R2404782-002	Be (313.107 nm)	0.0001	6.75	153.3636
	R2404782-002	Ca (317.933 nm)	255.4114 o LR	0.06	9100607.3181
	R2404782-002	Cd (214.439 nm)	0.0002	22.19	13.3873
	R2404782-002	Co (230.786 nm)	-0.0004 u	18.81	-16.2216
	R2404782-002	Cr (267.716 nm)	0.0010	11.44	59.1605

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404782-002	Cu (327.395 nm)	0.0013	8.30	28.8819
	R2404782-002	Fe (234.350 nm)	0.1695	0.15	3086.1073
	R2404782-002	K (766.491 nm)	2.9509	0.34	3046.2886
	R2404782-002	Mg (279.078 nm)	109.5073 o	0.06	357830.4855
	R2404782-002	Mn (257.610 nm)	0.0124	0.16	4165.5713
	R2404782-002	Mo (202.032 nm)	0.0010	43.72	22.5772
	R2404782-002	Na (588.995 nm)	24.8158	0.09	324328.7241
	R2404782-002	Ni (230.299 nm)	0.0029	14.66	59.7432
	R2404782-002	Pb (220.353 nm)	0.0018	66.91	17.5327
	R2404782-002	Sb (217.582 nm)	-0.0019 u	> 100.00	3.0501
	R2404782-002	Se (196.026 nm)	-0.0027 u	77.93	2.7973
	R2404782-002	Si (252.851 nm)	6.7852	0.09	25886.7880
	R2404782-002	Sn (189.925 nm)	0.0013	82.67	6.1746
	R2404782-002	Sr (216.596 nm)	15.9902 o	0.18	281418.9277
	R2404782-002	Ti (336.122 nm)	0.0057	8.14	978.2534
	R2404782-002	Tl (190.794 nm)	0.0017	17.33	0.4378
	R2404782-002	V (292.401 nm)	0.0000 u	> 100.00	-39.0905
	R2404782-002	Y (360.074 nm)	0.98	0.44	478179.66
	R2404782-002	Y_R (360.074 nm)	0.98	0.44	476873.82
	R2404782-002	Zn (213.857 nm)	0.0038	1.95	243.7313
6/11/2024 02:05:55	R2404782-002S	Ag (328.068 nm)	0.0497	0.45	2601.7309
	R2404782-002S	Al (237.312 nm)	2.1762	0.21	5391.8535
	R2404782-002S	As (188.980 nm)	0.0396	5.00	65.1460
	R2404782-002S	B (249.772 nm)	1.1993	0.09	38947.2311
	R2404782-002S	Ba (230.424 nm)	1.8871	0.11	102757.1155
	R2404782-002S	Be (313.107 nm)	0.0479	0.18	52557.8912
	R2404782-002S	Ca (317.933 nm)	253.3298 o	0.19	9026459.0617
	R2404782-002S	Cd (214.439 nm)	0.0492	0.48	2802.9662
	R2404782-002S	Co (230.786 nm)	0.4728	0.18	8564.4905
	R2404782-002S	Cr (267.716 nm)	0.2021	0.17	10510.1063
	R2404782-002S	Cu (327.395 nm)	0.2469	0.16	10812.7025
	R2404782-002S	Fe (234.350 nm)	1.1614	0.22	21145.5552
	R2404782-002S	K (766.491 nm)	23.2527	0.22	25325.3896
	R2404782-002S	Mg (279.078 nm)	109.3127 o	0.25	357194.5403
	R2404782-002S	Mn (257.610 nm)	0.4972	0.16	166048.0851
	R2404782-002S	Mo (202.032 nm)	0.5204	0.40	5443.9921
	R2404782-002S	Na (588.995 nm)	44.4611	0.08	591865.0580
	R2404782-002S	Ni (230.299 nm)	0.4999	0.03	5895.8587
	R2404782-002S	Pb (220.353 nm)	0.5084	0.21	2661.9392
	R2404782-002S	Sb (217.582 nm)	0.4819	0.50	901.7467
	R2404782-002S	Se (196.026 nm)	1.0186	0.08	747.2806
	R2404782-002S	Si (252.851 nm)	6.7175	0.13	25628.7909
	R2404782-002S	Sn (189.925 nm)	4.9481	0.23	12187.1724
	R2404782-002S	Sr (216.596 nm)	17.6078 o	0.17	309887.8948
	R2404782-002S	Ti (336.122 nm)	0.4947	0.25	71625.7680
	R2404782-002S	Tl (190.794 nm)	1.8529	0.26	1809.3724
	R2404782-002S	V (292.401 nm)	0.4956	0.10	18747.9154
	R2404782-002S	Y (360.074 nm)	0.98	0.70	476545.77
	R2404782-002S	Y_R (360.074 nm)	0.97	0.70	475250.41
	R2404782-002S	Zn (213.857 nm)	0.5012	0.16	32082.0955
6/11/2024 02:09:10	R2404782-002SD	Ag (328.068 nm)	0.0499	0.12	2614.3399
	R2404782-002SD	Al (237.312 nm)	2.1595	0.11	5350.3666
	R2404782-002SD	As (188.980 nm)	0.0426	5.33	70.1844
	R2404782-002SD	B (249.772 nm)	1.2019	0.09	39031.3449
	R2404782-002SD	Ba (230.424 nm)	1.8858	0.18	102685.6088
	R2404782-002SD	Be (313.107 nm)	0.0479	0.15	52556.4822
	R2404782-002SD	Ca (317.933 nm)	254.6869 o	0.28	9074800.3050

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404782-002SD	Cd (214.439 nm)	0.0491	0.46	2799.1215
	R2404782-002SD	Co (230.786 nm)	0.4724	0.25	8555.8682
	R2404782-002SD	Cr (267.716 nm)	0.2020	0.18	10507.6259
	R2404782-002SD	Cu (327.395 nm)	0.2470	0.10	10815.2632
	R2404782-002SD	Fe (234.350 nm)	1.1647	0.13	21206.2524
	R2404782-002SD	K (766.491 nm)	23.3768	0.11	25461.6184
	R2404782-002SD	Mg (279.078 nm)	109.9615 o	0.23	359315.0199
	R2404782-002SD	Mn (257.610 nm)	0.4976	0.20	166193.0964
	R2404782-002SD	Mo (202.032 nm)	0.5218	0.32	5458.7496
	R2404782-002SD	Na (588.995 nm)	44.6949	0.27	595049.1317
	R2404782-002SD	Ni (230.299 nm)	0.5005	0.24	5902.3803
	R2404782-002SD	Pb (220.353 nm)	0.5086	0.17	2663.0903
	R2404782-002SD	Sb (217.582 nm)	0.4829	0.13	903.5475
	R2404782-002SD	Se (196.026 nm)	1.0157	0.32	745.1083
	R2404782-002SD	Si (252.851 nm)	6.7154	0.05	25620.8213
	R2404782-002SD	Sn (189.925 nm)	4.9651	0.17	12228.8707
	R2404782-002SD	Sr (216.596 nm)	17.6904 o	0.32	311341.6716
	R2404782-002SD	Ti (336.122 nm)	0.4940	0.02	71531.3976
	R2404782-002SD	Tl (190.794 nm)	1.8570	0.30	1813.3486
	R2404782-002SD	V (292.401 nm)	0.4962	0.21	18770.9585
	R2404782-002SD	Y (360.074 nm)	0.97	0.30	474253.39
	R2404782-002SD	Y_R (360.074 nm)	0.97	0.30	472954.36
	R2404782-002SD	Zn (213.857 nm)	0.5017	0.12	32111.0825
6/11/2024 02:12:26	R2404782-002A	Ag (328.068 nm)	0.0499	0.23	2613.3640
	R2404782-002A	Al (237.312 nm)	2.1647	0.19	5363.2321
	R2404782-002A	As (188.980 nm)	0.0404	2.66	66.5167
	R2404782-002A	B (249.772 nm)	1.2042	0.15	39107.8701
	R2404782-002A	Ba (230.424 nm)	1.8903	0.24	102932.4760
	R2404782-002A	Be (313.107 nm)	0.0479	0.29	52618.7660
	R2404782-002A	Ca (317.933 nm)	250.4947 o	0.34	8925473.0143
	R2404782-002A	Cd (214.439 nm)	0.0492	0.34	2803.1912
	R2404782-002A	Co (230.786 nm)	0.4730	0.26	8567.8556
	R2404782-002A	Cr (267.716 nm)	0.2021	0.19	10512.5369
	R2404782-002A	Cu (327.395 nm)	0.2474	0.03	10830.6782
	R2404782-002A	Fe (234.350 nm)	1.1695	0.28	21294.5991
	R2404782-002A	K (766.491 nm)	23.2704	0.13	25344.8210
	R2404782-002A	Mg (279.078 nm)	107.9627 o	0.29	352782.9344
	R2404782-002A	Mn (257.610 nm)	0.4977	0.25	166223.9185
	R2404782-002A	Mo (202.032 nm)	0.5226	0.48	5466.9527
	R2404782-002A	Na (588.995 nm)	44.0680	0.14	586512.9086
	R2404782-002A	Ni (230.299 nm)	0.5015	0.25	5914.6740
	R2404782-002A	Pb (220.353 nm)	0.5086	0.34	2663.1205
	R2404782-002A	Sb (217.582 nm)	0.4832	0.55	904.2582
	R2404782-002A	Se (196.026 nm)	1.0168	0.43	745.9180
	R2404782-002A	Si (252.851 nm)	6.6065	0.12	25205.5866
	R2404782-002A	Sn (189.925 nm)	4.9521	0.17	12196.9520
	R2404782-002A	Sr (216.596 nm)	17.4085 o	0.36	306380.1354
	R2404782-002A	Ti (336.122 nm)	0.4952	0.12	71696.7815
	R2404782-002A	Tl (190.794 nm)	1.8572	0.33	1813.5415
	R2404782-002A	V (292.401 nm)	0.4961	0.19	18766.9325
	R2404782-002A	Y (360.074 nm)	0.97	0.12	473547.27
	R2404782-002A	Y_R (360.074 nm)	0.97	0.12	472266.21
	R2404782-002A	Zn (213.857 nm)	0.5075	0.16	32482.6316
6/11/2024 02:15:41	R2404782-002L 5X	Ag (328.068 nm)	-0.0005 u	30.60	-244.5331
	R2404782-002L 5X	Al (237.312 nm)	0.0391	2.20	108.8535
	R2404782-002L 5X	As (188.980 nm)	-0.0011 u	> 100.00	-3.8565
	R2404782-002L 5X	B (249.772 nm)	0.0425	0.64	1384.7337

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404782-002L 5X	Ba (230.424 nm)	0.0018	3.03	107.2689
	R2404782-002L 5X	Be (313.107 nm)	0.0001	7.76	121.7189
	R2404782-002L 5X	Ca (317.933 nm)	55.3325 o	0.41	1973710.3088
	R2404782-002L 5X	Cd (214.439 nm)	0.0001	29.19	9.9049
	R2404782-002L 5X	Co (230.786 nm)	-0.0002 u	85.66	-13.6961
	R2404782-002L 5X	Cr (267.716 nm)	0.0002	54.29	17.3042
	R2404782-002L 5X	Cu (327.395 nm)	0.0006	12.58	0.1552
	R2404782-002L 5X	Fe (234.350 nm)	0.0362	1.60	659.3778
	R2404782-002L 5X	K (766.491 nm)	0.6159	2.49	483.8485
	R2404782-002L 5X	Mg (279.078 nm)	21.8517	0.36	71379.6025
	R2404782-002L 5X	Mn (257.610 nm)	0.0026	0.53	888.9124
	R2404782-002L 5X	Mo (202.032 nm)	0.0021	38.14	34.3542
	R2404782-002L 5X	Na (588.995 nm)	4.7000	0.01	50383.2518
	R2404782-002L 5X	Ni (230.299 nm)	0.0008	45.53	34.5109
	R2404782-002L 5X	Pb (220.353 nm)	0.0014	9.01	15.0331
	R2404782-002L 5X	Sb (217.582 nm)	-0.0014 u	> 100.00	3.9373
	R2404782-002L 5X	Se (196.026 nm)	-0.0013 u	> 100.00	3.8623
	R2404782-002L 5X	Si (252.851 nm)	1.3524	0.42	5185.6213
	R2404782-002L 5X	Sn (189.925 nm)	0.0006	44.00	4.5059
	R2404782-002L 5X	Sr (216.596 nm)	3.2963	0.55	58012.0517
	R2404782-002L 5X	Ti (336.122 nm)	0.0021	25.85	457.1326
	R2404782-002L 5X	Tl (190.794 nm)	0.0022	84.01	0.9394
	R2404782-002L 5X	V (292.401 nm)	-0.0004 u	47.87	-53.8463
	R2404782-002L 5X	Y (360.074 nm)	1.02	0.04	500282.76
	R2404782-002L 5X	Y_R (360.074 nm)	1.02	0.04	498922.36
	R2404782-002L 5X	Zn (213.857 nm)	0.0008	8.27	48.6199
6/11/2024 02:18:56	R2404782-003	Ag (328.068 nm)	-0.0006 u	29.09	-248.8017
	R2404782-003	Al (237.312 nm)	0.0129	8.10	44.1907
	R2404782-003	As (188.980 nm)	0.0002 u	> 100.00	-1.6540
	R2404782-003	B (249.772 nm)	0.3515	0.16	11420.7562
	R2404782-003	Ba (230.424 nm)	0.0134	0.48	740.1079
	R2404782-003	Be (313.107 nm)	0.0001	4.61	142.8430
	R2404782-003	Ca (317.933 nm)	242.0074 o	0.45	8623152.6266
	R2404782-003	Cd (214.439 nm)	0.0002	13.08	12.5919
	R2404782-003	Co (230.786 nm)	-0.0003 u	31.16	-14.6223
	R2404782-003	Cr (267.716 nm)	0.0006	19.59	37.1119
	R2404782-003	Cu (327.395 nm)	0.0009	51.67	9.8234
	R2404782-003	Fe (234.350 nm)	0.2316	0.55	4215.9699
	R2404782-003	K (766.491 nm)	2.7897	1.14	2869.3389
	R2404782-003	Mg (279.078 nm)	94.5660 o	0.32	309003.7366
	R2404782-003	Mn (257.610 nm)	0.0143	0.29	4790.7516
	R2404782-003	Mo (202.032 nm)	0.0016	25.12	28.4442
	R2404782-003	Na (588.995 nm)	8.4832	0.33	101904.8719
	R2404782-003	Ni (230.299 nm)	0.0019	3.17	47.9532
	R2404782-003	Pb (220.353 nm)	0.0015	48.54	15.9261
	R2404782-003	Sb (217.582 nm)	-0.0007 u	> 100.00	5.3450
	R2404782-003	Se (196.026 nm)	-0.0015 u	> 100.00	3.6784
	R2404782-003	Si (252.851 nm)	5.1203	0.24	19542.8980
	R2404782-003	Sn (189.925 nm)	0.0008 u	> 100.00	4.9180
	R2404782-003	Sr (216.596 nm)	13.9184 o	0.40	244957.1304
	R2404782-003	Ti (336.122 nm)	0.0029	12.85	578.4030
	R2404782-003	Tl (190.794 nm)	0.0033	66.92	1.9831
	R2404782-003	V (292.401 nm)	-0.0003 u	60.09	-52.8539
	R2404782-003	Y (360.074 nm)	0.98	0.06	479411.12
	R2404782-003	Y_R (360.074 nm)	0.98	0.06	478125.41
	R2404782-003	Zn (213.857 nm)	0.0029	1.14	185.9990
6/11/2024 02:22:11	R2404782-004	Ag (328.068 nm)	-0.0005 u	24.26	-245.4334

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404782-004	Al (237.312 nm)	0.0130	14.69	44.3811
	R2404782-004	As (188.980 nm)	-0.0005 u	> 100.00	-2.9298
	R2404782-004	B (249.772 nm)	0.3522	0.17	11441.0094
	R2404782-004	Ba (230.424 nm)	0.0135	0.71	745.4403
	R2404782-004	Be (313.107 nm)	0.0001	3.05	127.7664
	R2404782-004	Ca (317.933 nm)	242.5512 o	0.20	8642521.4561
	R2404782-004	Cd (214.439 nm)	0.0003	5.57	17.9452
	R2404782-004	Co (230.786 nm)	-0.0003 u	93.01	-15.8472
	R2404782-004	Cr (267.716 nm)	0.0004	18.21	26.6995
	R2404782-004	Cu (327.395 nm)	0.0008	35.75	8.4492
	R2404782-004	Fe (234.350 nm)	0.2348	0.28	4274.4554
	R2404782-004	K (766.491 nm)	2.7988	0.66	2879.3289
	R2404782-004	Mg (279.078 nm)	94.7199 o	0.20	309506.6018
	R2404782-004	Mn (257.610 nm)	0.0143	0.45	4777.6687
	R2404782-004	Mo (202.032 nm)	0.0014	29.70	26.6863
	R2404782-004	Na (588.995 nm)	8.5443	0.05	102736.6122
	R2404782-004	Ni (230.299 nm)	0.0021	14.99	49.5995
	R2404782-004	Pb (220.353 nm)	0.0010 u	> 100.00	12.9509
	R2404782-004	Sb (217.582 nm)	-0.0027 u	68.61	1.6559
	R2404782-004	Se (196.026 nm)	0.0002 u	> 100.00	4.9312
	R2404782-004	Si (252.851 nm)	5.1385	0.19	19612.3135
	R2404782-004	Sn (189.925 nm)	0.0001 u	> 100.00	3.3604
	R2404782-004	Sr (216.596 nm)	13.9259 o	0.25	245089.3768
	R2404782-004	Ti (336.122 nm)	0.0026	8.63	529.7753
	R2404782-004	Tl (190.794 nm)	0.0019	33.64	0.6781
	R2404782-004	V (292.401 nm)	-0.0003 u	10.61	-51.7434
	R2404782-004	Y (360.074 nm)	0.99	0.49	481465.60
	R2404782-004	Y_R (360.074 nm)	0.98	0.48	480144.85
	R2404782-004	Zn (213.857 nm)	0.0051	2.23	329.4830
6/11/2024 02:25:26	Continuing Calibration Verification2	Ag (328.068 nm)	0.5036	0.07	28314.9987
	Continuing Calibration Verification2	Al (237.312 nm)	9.6686	0.13	23912.7971
	Continuing Calibration Verification2	As (188.980 nm)	0.9797	0.21	1659.5067
	Continuing Calibration Verification2	B (249.772 nm)	2.4058	0.17	78123.2801
	Continuing Calibration Verification2	Ba (230.424 nm)	9.6162	0.47	523582.3268
	Continuing Calibration Verification2	Be (313.107 nm)	0.2428	0.38	266493.0757
	Continuing Calibration Verification2	Ca (317.933 nm)	26.2811	0.31	938886.9741
	Continuing Calibration Verification2	Cd (214.439 nm)	0.5135	0.54	29255.1163
	Continuing Calibration Verification2	Co (230.786 nm)	2.4920	0.38	45180.0218
	Continuing Calibration Verification2	Cr (267.716 nm)	0.5254	0.35	27318.2715
	Continuing Calibration Verification2	Cu (327.395 nm)	1.2024	0.34	52753.8903
	Continuing Calibration Verification2	Fe (234.350 nm)	5.0731	0.35	92370.4816
	Continuing Calibration Verification2	K (766.491 nm)	23.8841	0.09	26018.3809
	Continuing Calibration Verification2	Mg (279.078 nm)	25.9667	0.29	84827.0403
	Continuing Calibration Verification2	Mn (257.610 nm)	0.7474	0.32	249600.5929
	Continuing Calibration Verification2	Mo (202.032 nm)	2.7232	0.41	28438.1260
	Continuing Calibration Verification2	Na (588.995 nm)	25.1145	0.26	328395.8373
	Continuing Calibration Verification2	Ni (230.299 nm)	2.0906	0.30	24574.2666
	Continuing Calibration Verification2	Pb (220.353 nm)	0.5271	0.23	2759.6247
	Continuing Calibration Verification2	Sb (217.582 nm)	4.6668	0.22	8675.5402
	Continuing Calibration Verification2	Se (196.026 nm)	0.4817	0.65	355.9224
	Continuing Calibration Verification2	Si (252.851 nm)	9.8002	0.46	37374.7872
	Continuing Calibration Verification2	Sn (189.925 nm)	5.0519	0.23	12442.6148
	Continuing Calibration Verification2	Sr (216.596 nm)	2.5142	0.49	44248.1865
	Continuing Calibration Verification2	Ti (336.122 nm)	2.5140	0.24	363376.2463
	Continuing Calibration Verification2	Tl (190.794 nm)	0.9775	0.57	953.9854
	Continuing Calibration Verification2	V (292.401 nm)	2.5402	0.31	96264.7125
	Continuing Calibration Verification2	Y (360.074 nm)	1.02	0.27	496334.20

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification2	Y_R (360.074 nm)	1.01	0.27	494979.72
	Continuing Calibration Verification2	Zn (213.857 nm)	0.9903	0.36	63389.8230
6/11/2024 02:28:40	Continuing Calibration Blank2	Ag (328.068 nm)	-0.0007 u	7.50	-251.7835
	Continuing Calibration Blank2	Al (237.312 nm)	0.0019	53.26	17.0395
	Continuing Calibration Blank2	As (188.980 nm)	0.0012	34.51	-0.0651
	Continuing Calibration Blank2	B (249.772 nm)	0.0018	16.44	65.1092
	Continuing Calibration Blank2	Ba (230.424 nm)	0.0004	57.08	34.3451
	Continuing Calibration Blank2	Be (313.107 nm)	0.0001	9.59	106.9119
	Continuing Calibration Blank2	Ca (317.933 nm)	0.0168	4.50	3341.0442
	Continuing Calibration Blank2	Cd (214.439 nm)	0.0001	68.97	8.8720
	Continuing Calibration Blank2	Co (230.786 nm)	0.0000 u	> 100.00	-9.8484
	Continuing Calibration Blank2	Cr (267.716 nm)	0.0002	> 100.00	14.4690
	Continuing Calibration Blank2	Cu (327.395 nm)	0.0005	40.03	-3.7214
	Continuing Calibration Blank2	Fe (234.350 nm)	0.0055	15.35	98.8126
	Continuing Calibration Blank2	K (766.491 nm)	0.0837	42.46	-100.1536
	Continuing Calibration Blank2	Mg (279.078 nm)	0.0033	29.26	-18.8576
	Continuing Calibration Blank2	Mn (257.610 nm)	0.0001	2.58	58.4763
	Continuing Calibration Blank2	Mo (202.032 nm)	0.0037	38.44	50.8066
	Continuing Calibration Blank2	Na (588.995 nm)	0.0302	17.34	-13211.9753
	Continuing Calibration Blank2	Ni (230.299 nm)	0.0004	84.01	29.4125
	Continuing Calibration Blank2	Pb (220.353 nm)	0.0006 u	> 100.00	10.9481
	Continuing Calibration Blank2	Sb (217.582 nm)	0.0008	> 100.00	8.0064
	Continuing Calibration Blank2	Se (196.026 nm)	0.0008 u	> 100.00	5.3367
	Continuing Calibration Blank2	Si (252.851 nm)	-0.0040 u	16.31	17.5226
	Continuing Calibration Blank2	Sn (189.925 nm)	0.0003 u	> 100.00	3.7065
	Continuing Calibration Blank2	Sr (216.596 nm)	0.0006	22.73	9.5045
	Continuing Calibration Blank2	Ti (336.122 nm)	0.0029	45.61	573.3271
	Continuing Calibration Blank2	Tl (190.794 nm)	0.0018	62.41	0.5996
	Continuing Calibration Blank2	V (292.401 nm)	-0.0002 u	80.75	-46.4180
	Continuing Calibration Blank2	Y (360.074 nm)	1.05	0.03	513778.54
	Continuing Calibration Blank2	Y_R (360.074 nm)	1.05	0.03	512407.00
	Continuing Calibration Blank2	Zn (213.857 nm)	0.0006	13.33	37.6348
6/11/2024 02:31:54	R2404782-005	Ag (328.068 nm)	-0.0006 u	34.37	-249.9440
	R2404782-005	Al (237.312 nm)	0.2720	0.59	684.5849
	R2404782-005	As (188.980 nm)	-0.0012 u	94.32	-3.9996
	R2404782-005	B (249.772 nm)	0.2717	0.17	8827.3112
	R2404782-005	Ba (230.424 nm)	0.0129	0.69	713.5156
	R2404782-005	Be (313.107 nm)	0.0001	11.11	138.3179
	R2404782-005	Ca (317.933 nm)	184.8366 o	0.39	6586700.9296
	R2404782-005	Cd (214.439 nm)	0.0003	11.71	17.5582
	R2404782-005	Co (230.786 nm)	-0.0001 u	> 100.00	-11.2615
	R2404782-005	Cr (267.716 nm)	0.0007	13.07	44.5104
	R2404782-005	Cu (327.395 nm)	0.0009	33.31	9.8249
	R2404782-005	Fe (234.350 nm)	0.2128	0.56	3874.0449
	R2404782-005	K (766.491 nm)	2.6846	1.04	2754.0180
	R2404782-005	Mg (279.078 nm)	74.8813 o	0.26	244675.7319
	R2404782-005	Mn (257.610 nm)	0.0154	0.38	5145.7923
	R2404782-005	Mo (202.032 nm)	0.0016	30.26	28.6387
	R2404782-005	Na (588.995 nm)	6.9880	0.07	81542.1145
	R2404782-005	Ni (230.299 nm)	0.0018	14.19	46.5246
	R2404782-005	Pb (220.353 nm)	0.0013	8.57	14.9128
	R2404782-005	Sb (217.582 nm)	0.0024	25.56	11.0690
	R2404782-005	Se (196.026 nm)	-0.0011 u	> 100.00	3.9624
	R2404782-005	Si (252.851 nm)	5.5074	0.15	21017.7310
	R2404782-005	Sn (189.925 nm)	0.0006	80.83	4.5250
	R2404782-005	Sr (216.596 nm)	16.3848 o	0.37	288365.0374
	R2404782-005	Ti (336.122 nm)	0.0068	12.74	1131.2109

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404782-005	Tl (190.794 nm)	0.0021	86.33	0.8238
	R2404782-005	V (292.401 nm)	0.0001 u	> 100.00	-38.0828
	R2404782-005	Y (360.074 nm)	0.99	0.24	484371.99
	R2404782-005	Y_R (360.074 nm)	0.99	0.24	483055.77
	R2404782-005	Zn (213.857 nm)	0.0026	3.00	164.6664
6/11/2024 02:35:09	R2404782-006	Ag (328.068 nm)	-0.0007 u	7.17	-254.8917
	R2404782-006	Al (237.312 nm)	0.1947	0.95	493.6865
	R2404782-006	As (188.980 nm)	0.0005 u	> 100.00	-1.2568
	R2404782-006	B (249.772 nm)	0.4757	0.19	15453.1980
	R2404782-006	Ba (230.424 nm)	0.0075	0.53	420.4718
	R2404782-006	Be (313.107 nm)	0.0001	2.00	177.0531
	R2404782-006	Ca (317.933 nm)	472.0460 o LR	0.36	16817224.0385
	R2404782-006	Cd (214.439 nm)	0.0004	15.02	21.9359
	R2404782-006	Co (230.786 nm)	-0.0002 u	> 100.00	-13.4155
	R2404782-006	Cr (267.716 nm)	0.0006	13.56	35.8716
	R2404782-006	Cu (327.395 nm)	0.0027	4.45	90.8926
	R2404782-006	Fe (234.350 nm)	0.1681	0.56	3060.0816
	R2404782-006	K (766.491 nm)	4.5486	0.32	4799.5617
	R2404782-006	Mg (279.078 nm)	197.5851 o	0.24	645661.2080
	R2404782-006	Mn (257.610 nm)	0.0353	0.39	11800.0269
	R2404782-006	Mo (202.032 nm)	0.0014	33.68	26.8320
	R2404782-006	Na (588.995 nm)	21.0069	0.23	272457.5426
	R2404782-006	Ni (230.299 nm)	0.0024	28.56	53.3885
	R2404782-006	Pb (220.353 nm)	0.0022	35.17	19.4276
	R2404782-006	Sb (217.582 nm)	0.0029	10.41	12.0483
	R2404782-006	Se (196.026 nm)	0.0017	> 100.00	5.9984
	R2404782-006	Si (252.851 nm)	5.1967	0.17	19833.7982
	R2404782-006	Sn (189.925 nm)	0.0007	84.13	4.6396
	R2404782-006	Sr (216.596 nm)	11.0873 o	0.29	195130.0490
	R2404782-006	Ti (336.122 nm)	0.0077	4.47	1269.2049
	R2404782-006	Tl (190.794 nm)	0.0025 u	> 100.00	1.2359
	R2404782-006	V (292.401 nm)	0.0001 u	> 100.00	-37.7074
	R2404782-006	Y (360.074 nm)	0.95	0.10	465467.77
	R2404782-006	Y_R (360.074 nm)	0.95	0.10	464170.40
	R2404782-006	Zn (213.857 nm)	0.0054	0.93	348.5083
6/11/2024 02:38:24	R2404782-007	Ag (328.068 nm)	-0.0006 u	17.96	-246.4893
	R2404782-007	Al (237.312 nm)	0.1884	0.76	478.0118
	R2404782-007	As (188.980 nm)	0.0001 u	> 100.00	-1.8264
	R2404782-007	B (249.772 nm)	0.0925	0.29	3010.3003
	R2404782-007	Ba (230.424 nm)	0.0413	0.64	2262.2779
	R2404782-007	Be (313.107 nm)	0.0001	10.24	140.2808
	R2404782-007	Ca (317.933 nm)	298.6580 o LR	0.24	10641070.9141
	R2404782-007	Cd (214.439 nm)	0.0003	8.52	20.1718
	R2404782-007	Co (230.786 nm)	0.0005	36.15	-0.1546
	R2404782-007	Cr (267.716 nm)	0.0009	11.57	54.4835
	R2404782-007	Cu (327.395 nm)	0.0017	10.65	45.8515
	R2404782-007	Fe (234.350 nm)	0.6865	0.17	12498.5705
	R2404782-007	K (766.491 nm)	3.5298	0.52	3681.5463
	R2404782-007	Mg (279.078 nm)	156.6434 o	0.24	511867.1145
	R2404782-007	Mn (257.610 nm)	0.5042	0.25	168391.6565
	R2404782-007	Mo (202.032 nm)	0.0011	26.83	23.5860
	R2404782-007	Na (588.995 nm)	20.3824	0.08	263952.6955
	R2404782-007	Ni (230.299 nm)	0.0046	10.47	79.1631
	R2404782-007	Pb (220.353 nm)	0.0010	16.58	13.2051
	R2404782-007	Sb (217.582 nm)	0.0001 u	> 100.00	6.8057
	R2404782-007	Se (196.026 nm)	-0.0014 u	> 100.00	3.7464
	R2404782-007	Si (252.851 nm)	8.7889	0.16	33521.4685

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404782-007	Sn (189.925 nm)	0.0003 u	> 100.00	3.7550
	R2404782-007	Sr (216.596 nm)	7.5374 o	0.33	132654.3260
	R2404782-007	Ti (336.122 nm)	0.0061	3.31	1030.7924
	R2404782-007	Tl (190.794 nm)	0.0024	70.86	1.1303
	R2404782-007	V (292.401 nm)	0.0001	66.39	-35.7320
	R2404782-007	Y (360.074 nm)	0.98	0.20	478515.58
	R2404782-007	Y_R (360.074 nm)	0.98	0.20	477201.44
	R2404782-007	Zn (213.857 nm)	0.0037	1.95	239.3048
6/11/2024 02:41:39	R2404782-008	Ag (328.068 nm)	-0.0004 u	10.78	-240.1608
	R2404782-008	Al (237.312 nm)	3.0828	0.04	7632.9250
	R2404782-008	As (188.980 nm)	0.0004 u	> 100.00	-1.3170
	R2404782-008	B (249.772 nm)	0.0770	0.49	2505.9055
	R2404782-008	Ba (230.424 nm)	0.0734	0.50	4008.3663
	R2404782-008	Be (313.107 nm)	0.0002	3.95	243.5810
	R2404782-008	Ca (317.933 nm)	197.9814 o	0.28	7054927.2209
	R2404782-008	Cd (214.439 nm)	0.0002	12.61	14.7221
	R2404782-008	Co (230.786 nm)	0.0007	27.86	2.7642
	R2404782-008	Cr (267.716 nm)	0.0036	1.23	194.4642
	R2404782-008	Cu (327.395 nm)	0.0040	8.91	148.6130
	R2404782-008	Fe (234.350 nm)	2.5545	0.25	46512.4085
	R2404782-008	K (766.491 nm)	3.1093	1.09	3220.0889
	R2404782-008	Mg (279.078 nm)	81.4616 o	0.26	266179.5210
	R2404782-008	Mn (257.610 nm)	0.1333	0.27	44526.9920
	R2404782-008	Mo (202.032 nm)	0.0022	10.57	34.6756
	R2404782-008	Na (588.995 nm)	8.5857	0.14	103300.9465
	R2404782-008	Ni (230.299 nm)	0.0075	5.99	113.3356
	R2404782-008	Pb (220.353 nm)	0.0029	55.68	22.9161
	R2404782-008	Sb (217.582 nm)	-0.0014 u	32.69	4.0418
	R2404782-008	Se (196.026 nm)	-0.0006 u	> 100.00	4.3057
	R2404782-008	Si (252.851 nm)	9.1069	0.14	34733.1657
	R2404782-008	Sn (189.925 nm)	0.0001 u	> 100.00	3.3522
	R2404782-008	Sr (216.596 nm)	5.6944 o	0.39	100218.6722
	R2404782-008	Ti (336.122 nm)	0.0441	1.35	6519.6526
	R2404782-008	Tl (190.794 nm)	0.0016	17.50	0.3972
	R2404782-008	V (292.401 nm)	0.0049	3.01	146.5161
	R2404782-008	Y (360.074 nm)	1.00	0.28	486968.12
	R2404782-008	Y_R (360.074 nm)	1.00	0.28	485636.19
	R2404782-008	Zn (213.857 nm)	0.0198	0.58	1267.6714
6/11/2024 02:44:54	R2404782-009	Ag (328.068 nm)	-0.0005 u	30.91	-243.3014
	R2404782-009	Al (237.312 nm)	0.0565	3.19	151.8399
	R2404782-009	As (188.980 nm)	-0.0006 u	> 100.00	-3.0339
	R2404782-009	B (249.772 nm)	0.3819	0.18	12405.0519
	R2404782-009	Ba (230.424 nm)	0.0060	0.33	336.6337
	R2404782-009	Be (313.107 nm)	0.0001	6.65	137.8128
	R2404782-009	Ca (317.933 nm)	453.5967 o LR	0.16	16160053.6963
	R2404782-009	Cd (214.439 nm)	0.0002	22.89	16.1091
	R2404782-009	Co (230.786 nm)	-0.0003 u	83.39	-15.3789
	R2404782-009	Cr (267.716 nm)	0.0003	81.61	22.3978
	R2404782-009	Cu (327.395 nm)	0.0013	23.25	30.4453
	R2404782-009	Fe (234.350 nm)	0.7248	0.22	13197.1593
	R2404782-009	K (766.491 nm)	5.9301	0.11	6315.6178
	R2404782-009	Mg (279.078 nm)	170.0420 o	0.17	555652.8896
	R2404782-009	Mn (257.610 nm)	0.0338	0.09	11291.9569
	R2404782-009	Mo (202.032 nm)	0.0086	0.41	101.5521
	R2404782-009	Na (588.995 nm)	20.6623	0.22	267764.2695
	R2404782-009	Ni (230.299 nm)	0.0020	18.14	49.1169
	R2404782-009	Pb (220.353 nm)	0.0017	20.28	16.9972

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404782-009	Sb (217.582 nm)	0.0000 u	> 100.00	6.5374
	R2404782-009	Se (196.026 nm)	-0.0014 u	> 100.00	3.7702
	R2404782-009	Si (252.851 nm)	5.6084	0.23	21402.5514
	R2404782-009	Sn (189.925 nm)	0.0003 u	> 100.00	3.7346
	R2404782-009	Sr (216.596 nm)	10.8737 o	0.23	191370.8819
	R2404782-009	Ti (336.122 nm)	0.0054	2.29	931.5224
	R2404782-009	Tl (190.794 nm)	0.0031	38.51	1.7892
	R2404782-009	V (292.401 nm)	-0.0005 u	40.66	-58.2417
	R2404782-009	Y (360.074 nm)	0.96	0.51	471455.44
	R2404782-009	Y_R (360.074 nm)	0.96	0.51	470172.22
	R2404782-009	Zn (213.857 nm)	0.0078	0.58	499.0455
6/11/2024 02:48:09	R2404782-010	Ag (328.068 nm)	-0.0005 u	33.78	-242.7528
	R2404782-010	Al (237.312 nm)	0.2074	0.74	524.9483
	R2404782-010	As (188.980 nm)	-0.0002 u	> 100.00	-2.4306
	R2404782-010	B (249.772 nm)	0.0649	0.33	2113.1505
	R2404782-010	Ba (230.424 nm)	0.0321	0.70	1756.7960
	R2404782-010	Be (313.107 nm)	0.0001	11.32	119.3703
	R2404782-010	Ca (317.933 nm)	126.9416 o	0.33	4524458.1192
	R2404782-010	Cd (214.439 nm)	0.0002	23.60	13.6121
	R2404782-010	Co (230.786 nm)	0.0000 u	> 100.00	-9.3238
	R2404782-010	Cr (267.716 nm)	0.0008	8.40	46.8985
	R2404782-010	Cu (327.395 nm)	0.0016	24.85	41.5236
	R2404782-010	Fe (234.350 nm)	0.2822	0.50	5137.3472
	R2404782-010	K (766.491 nm)	3.2016	0.48	3321.3620
	R2404782-010	Mg (279.078 nm)	101.9660 o	0.29	333186.1534
	R2404782-010	Mn (257.610 nm)	0.0091	0.34	3041.9637
	R2404782-010	Mo (202.032 nm)	0.0035	4.48	48.3605
	R2404782-010	Na (588.995 nm)	38.7846	0.11	514560.2268
	R2404782-010	Ni (230.299 nm)	0.0025	8.88	54.1622
	R2404782-010	Pb (220.353 nm)	0.0020	28.70	18.2751
	R2404782-010	Sb (217.582 nm)	-0.0009 u	> 100.00	4.9811
	R2404782-010	Se (196.026 nm)	0.0005 u	> 100.00	5.1741
	R2404782-010	Si (252.851 nm)	7.3833	0.42	28165.5626
	R2404782-010	Sn (189.925 nm)	0.0001 u	> 100.00	3.1456
	R2404782-010	Sr (216.596 nm)	7.5926 o	0.40	133625.3596
	R2404782-010	Ti (336.122 nm)	0.0044	4.62	797.8261
	R2404782-010	Tl (190.794 nm)	0.0012 u	> 100.00	0.0107
	R2404782-010	V (292.401 nm)	0.0003	9.40	-28.4296
	R2404782-010	Y (360.074 nm)	1.00	0.38	487571.81
	R2404782-010	Y_R (360.074 nm)	1.00	0.37	486240.04
	R2404782-010	Zn (213.857 nm)	0.0116	1.26	742.3902
6/11/2024 02:51:25	R2404782-011	Ag (328.068 nm)	-0.0005 u	4.00	-244.4959
	R2404782-011	Al (237.312 nm)	0.0533	1.77	144.0229
	R2404782-011	As (188.980 nm)	-0.0010 u	> 100.00	-3.7241
	R2404782-011	B (249.772 nm)	0.8411	0.20	27316.8640
	R2404782-011	Ba (230.424 nm)	0.0075	1.11	421.1945
	R2404782-011	Be (313.107 nm)	0.0001	3.77	148.9661
	R2404782-011	Ca (317.933 nm)	463.1951 o LR	0.32	16501952.0091
	R2404782-011	Cd (214.439 nm)	0.0003	19.34	19.2677
	R2404782-011	Co (230.786 nm)	0.0013	32.62	13.3990
	R2404782-011	Cr (267.716 nm)	0.0005	17.95	34.3004
	R2404782-011	Cu (327.395 nm)	0.0009	8.85	12.3277
	R2404782-011	Fe (234.350 nm)	0.4530	0.21	8247.9211
	R2404782-011	K (766.491 nm)	5.9821	0.64	6372.7528
	R2404782-011	Mg (279.078 nm)	215.3151 o	0.31	703601.3751
	R2404782-011	Mn (257.610 nm)	0.1027	0.23	34330.3354
	R2404782-011	Mo (202.032 nm)	0.0003 u	> 100.00	14.9965

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404782-011	Na (588.995 nm)	39.4197	0.13	523210.0345
	R2404782-011	Ni (230.299 nm)	0.0027	38.40	56.8795
	R2404782-011	Pb (220.353 nm)	0.0012	26.21	14.1269
	R2404782-011	Sb (217.582 nm)	-0.0014 u	95.75	4.0006
	R2404782-011	Se (196.026 nm)	0.0006 u	> 100.00	5.1803
	R2404782-011	Si (252.851 nm)	8.2252	0.20	31373.6825
	R2404782-011	Sn (189.925 nm)	0.0006	> 100.00	4.4960
	R2404782-011	Sr (216.596 nm)	10.8762 o	0.45	191415.2254
	R2404782-011	Ti (336.122 nm)	0.0055	1.67	952.8501
	R2404782-011	Tl (190.794 nm)	0.0015 u	> 100.00	0.2296
	R2404782-011	V (292.401 nm)	0.0006	30.59	-19.0104
	R2404782-011	Y (360.074 nm)	0.96	0.92	468437.96
	R2404782-011	Y_R (360.074 nm)	0.96	0.92	467135.76
	R2404782-011	Zn (213.857 nm)	0.0038	1.05	243.8627
6/11/2024 02:54:40	R2404782-012	Ag (328.068 nm)	-0.0007 u	18.16	-254.0278
	R2404782-012	Al (237.312 nm)	0.0074	55.16	30.5018
	R2404782-012	As (188.980 nm)	0.0006 u	> 100.00	-0.9646
	R2404782-012	B (249.772 nm)	0.4609	0.09	14971.3059
	R2404782-012	Ba (230.424 nm)	0.0060	0.52	336.1195
	R2404782-012	Be (313.107 nm)	0.0001	1.57	154.3793
	R2404782-012	Ca (317.933 nm)	459.5754 o LR	0.16	16373015.0868
	R2404782-012	Cd (214.439 nm)	0.0002	18.54	15.5607
	R2404782-012	Co (230.786 nm)	-0.0002 u	> 100.00	-13.1122
	R2404782-012	Cr (267.716 nm)	0.0006	13.82	36.1712
	R2404782-012	Cu (327.395 nm)	0.0010	26.39	14.9535
	R2404782-012	Fe (234.350 nm)	0.3059	0.09	5569.3248
	R2404782-012	K (766.491 nm)	3.7536	1.09	3927.1898
	R2404782-012	Mg (279.078 nm)	146.7581 o	0.14	479562.8769
	R2404782-012	Mn (257.610 nm)	0.0238	0.16	7974.7874
	R2404782-012	Mo (202.032 nm)	0.0022	15.34	35.0968
	R2404782-012	Na (588.995 nm)	16.4287	0.22	210110.1743
	R2404782-012	Ni (230.299 nm)	0.0018	21.74	46.9389
	R2404782-012	Pb (220.353 nm)	0.0014	18.94	15.1781
	R2404782-012	Sb (217.582 nm)	-0.0026 u	98.96	1.8367
	R2404782-012	Se (196.026 nm)	-0.0016 u	> 100.00	3.6361
	R2404782-012	Si (252.851 nm)	5.0363	0.06	19222.6612
	R2404782-012	Sn (189.925 nm)	0.0011	34.99	5.6571
	R2404782-012	Sr (216.596 nm)	10.9368 o	0.05	192481.3108
	R2404782-012	Ti (336.122 nm)	0.0046	1.20	816.5193
	R2404782-012	Tl (190.794 nm)	0.0022 u	> 100.00	0.9692
	R2404782-012	V (292.401 nm)	-0.0006 u	35.74	-63.1869
	R2404782-012	Y (360.074 nm)	0.97	0.52	473377.54
	R2404782-012	Y_R (360.074 nm)	0.97	0.52	472076.42
	R2404782-012	Zn (213.857 nm)	0.0030	0.94	193.2703
6/11/2024 02:57:56	R2404782-013	Ag (328.068 nm)	-0.0005 u	25.94	-240.7810
	R2404782-013	Al (237.312 nm)	0.0076	25.47	31.0903
	R2404782-013	As (188.980 nm)	0.0014 u	> 100.00	0.2718
	R2404782-013	B (249.772 nm)	0.3243	0.08	10535.7405
	R2404782-013	Ba (230.424 nm)	0.0062	1.96	346.8131
	R2404782-013	Be (313.107 nm)	0.0001	6.35	138.7146
	R2404782-013	Ca (317.933 nm)	449.4715 o LR	0.31	16013111.8652
	R2404782-013	Cd (214.439 nm)	0.0002	19.21	15.0916
	R2404782-013	Co (230.786 nm)	-0.0002 u	> 100.00	-13.1792
	R2404782-013	Cr (267.716 nm)	0.0004	43.03	25.5623
	R2404782-013	Cu (327.395 nm)	0.0007	50.23	4.8987
	R2404782-013	Fe (234.350 nm)	0.3877	0.37	7058.8635
	R2404782-013	K (766.491 nm)	3.0909	0.67	3199.8655

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404782-013	Mg (279.078 nm)	139.8560 o	0.30	457007.4345
	R2404782-013	Mn (257.610 nm)	0.0461	0.25	15418.9403
	R2404782-013	Mo (202.032 nm)	0.0031	10.22	44.7834
	R2404782-013	Na (588.995 nm)	12.0499	0.08	150477.8176
	R2404782-013	Ni (230.299 nm)	0.0015	11.96	43.1262
	R2404782-013	Pb (220.353 nm)	0.0011	42.82	13.4686
	R2404782-013	Sb (217.582 nm)	-0.0014 u	> 100.00	4.0790
	R2404782-013	Se (196.026 nm)	-0.0026 u	> 100.00	2.8641
	R2404782-013	Si (252.851 nm)	5.0296	0.25	19197.2491
	R2404782-013	Sn (189.925 nm)	-0.0006 u	50.72	1.5018
	R2404782-013	Sr (216.596 nm)	10.9857 o	0.34	193342.0728
	R2404782-013	Ti (336.122 nm)	0.0044	3.04	794.3974
	R2404782-013	Tl (190.794 nm)	0.0028	76.13	1.5451
	R2404782-013	V (292.401 nm)	-0.0002 u	37.62	-47.5058
	R2404782-013	Y (360.074 nm)	0.97	0.37	475873.21
	R2404782-013	Y_R (360.074 nm)	0.97	0.37	474570.13
	R2404782-013	Zn (213.857 nm)	0.0014	4.23	89.9671
6/11/2024 03:01:11	R2404782-014	Ag (328.068 nm)	-0.0006 u	18.43	-250.9917
	R2404782-014	Al (237.312 nm)	0.0735	1.04	193.9925
	R2404782-014	As (188.980 nm)	-0.0008 u	> 100.00	-3.2985
	R2404782-014	B (249.772 nm)	0.4727	0.13	15356.1091
	R2404782-014	Ba (230.424 nm)	0.0061	1.06	341.6359
	R2404782-014	Be (313.107 nm)	0.0001	4.97	138.6677
	R2404782-014	Ca (317.933 nm)	455.2960 o LR	0.18	16220581.8162
	R2404782-014	Cd (214.439 nm)	0.0003	46.73	16.5436
	R2404782-014	Co (230.786 nm)	0.0000 u	> 100.00	-9.9449
	R2404782-014	Cr (267.716 nm)	0.0005	14.34	30.5016
	R2404782-014	Cu (327.395 nm)	0.0011	20.75	22.2892
	R2404782-014	Fe (234.350 nm)	0.9495	0.23	17288.6849
	R2404782-014	K (766.491 nm)	4.0222	0.47	4221.9713
	R2404782-014	Mg (279.078 nm)	184.5385 o	0.24	603026.0261
	R2404782-014	Mn (257.610 nm)	0.0714	0.16	23864.9373
	R2404782-014	Mo (202.032 nm)	0.0007	34.61	19.4667
	R2404782-014	Na (588.995 nm)	20.8751	0.12	270662.8480
	R2404782-014	Ni (230.299 nm)	0.0027	27.95	56.6438
	R2404782-014	Pb (220.353 nm)	0.0010	57.37	13.1447
	R2404782-014	Sb (217.582 nm)	-0.0035 u	89.28	0.0447
	R2404782-014	Se (196.026 nm)	-0.0007 u	> 100.00	4.2950
	R2404782-014	Si (252.851 nm)	7.9043	0.13	30150.9487
	R2404782-014	Sn (189.925 nm)	-0.0003 u	98.19	2.2081
	R2404782-014	Sr (216.596 nm)	10.3485 o	0.22	182127.4792
	R2404782-014	Ti (336.122 nm)	0.0060	1.69	1019.6643
	R2404782-014	Tl (190.794 nm)	0.0020	75.63	0.7868
	R2404782-014	V (292.401 nm)	-0.0002 u	9.45	-48.9302
	R2404782-014	Y (360.074 nm)	0.98	0.65	477352.29
	R2404782-014	Y_R (360.074 nm)	0.98	0.65	476027.29
	R2404782-014	Zn (213.857 nm)	0.0055	0.37	354.4996
6/11/2024 03:04:26	Continuing Calibration Verification2	Ag (328.068 nm)	0.5058	0.05	28441.2388
	Continuing Calibration Verification2	Al (237.312 nm)	9.7128	0.05	24021.8747
	Continuing Calibration Verification2	As (188.980 nm)	0.9815	0.56	1662.4938
	Continuing Calibration Verification2	B (249.772 nm)	2.4135	0.10	78375.5980
	Continuing Calibration Verification2	Ba (230.424 nm)	9.6310	0.84	524388.3390
	Continuing Calibration Verification2	Be (313.107 nm)	0.2430	0.28	266723.1472
	Continuing Calibration Verification2	Ca (317.933 nm)	26.3019	0.23	939626.5683
	Continuing Calibration Verification2	Cd (214.439 nm)	0.5131	0.27	29230.6765
	Continuing Calibration Verification2	Co (230.786 nm)	2.4997	0.38	45318.5258
	Continuing Calibration Verification2	Cr (267.716 nm)	0.5268	0.27	27389.8446

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification2	Cu (327.395 nm)	1.2084	0.35	53019.1381
	Continuing Calibration Verification2	Fe (234.350 nm)	5.0822	0.27	92536.9652
	Continuing Calibration Verification2	K (766.491 nm)	24.0361	0.10	26185.1434
	Continuing Calibration Verification2	Mg (279.078 nm)	25.9705	0.18	84839.5116
	Continuing Calibration Verification2	Mn (257.610 nm)	0.7492	0.21	250212.5095
	Continuing Calibration Verification2	Mo (202.032 nm)	2.7344	0.27	28555.1937
	Continuing Calibration Verification2	Na (588.995 nm)	25.3043	0.33	330980.2769
	Continuing Calibration Verification2	Ni (230.299 nm)	2.0925	0.24	24597.3121
	Continuing Calibration Verification2	Pb (220.353 nm)	0.5277	0.23	2762.6686
	Continuing Calibration Verification2	Sb (217.582 nm)	4.6772	0.10	8694.8656
	Continuing Calibration Verification2	Se (196.026 nm)	0.4758	0.83	351.5834
	Continuing Calibration Verification2	Si (252.851 nm)	9.8354	0.40	37509.0900
	Continuing Calibration Verification2	Sn (189.925 nm)	5.0612	0.17	12465.7025
	Continuing Calibration Verification2	Sr (216.596 nm)	2.5146	0.43	44254.3331
	Continuing Calibration Verification2	Ti (336.122 nm)	2.5237	0.10	364765.8076
	Continuing Calibration Verification2	Tl (190.794 nm)	0.9816	0.24	958.0123
	Continuing Calibration Verification2	V (292.401 nm)	2.5479	0.23	96556.1726
	Continuing Calibration Verification2	Y (360.074 nm)	1.02	0.48	497817.70
	Continuing Calibration Verification2	Y_R (360.074 nm)	1.02	0.48	496456.33
	Continuing Calibration Verification2	Zn (213.857 nm)	0.9951	0.29	63692.2529
6/11/2024 03:07:40	Continuing Calibration Blank2	Ag (328.068 nm)	-0.0005 u	37.87	-245.5345
	Continuing Calibration Blank2	Al (237.312 nm)	0.0037	33.83	21.5003
	Continuing Calibration Blank2	As (188.980 nm)	0.0002 u	> 100.00	-1.6716
	Continuing Calibration Blank2	B (249.772 nm)	0.0016	21.41	58.7026
	Continuing Calibration Blank2	Ba (230.424 nm)	0.0004	23.30	30.9001
	Continuing Calibration Blank2	Be (313.107 nm)	0.0001	10.22	94.2400
	Continuing Calibration Blank2	Ca (317.933 nm)	0.0179	1.32	3378.9229
	Continuing Calibration Blank2	Cd (214.439 nm)	0.0001	72.68	5.6443
	Continuing Calibration Blank2	Co (230.786 nm)	-0.0001 u	> 100.00	-10.6000
	Continuing Calibration Blank2	Cr (267.716 nm)	0.0001	26.94	11.5082
	Continuing Calibration Blank2	Cu (327.395 nm)	0.0004	15.57	-11.2743
	Continuing Calibration Blank2	Fe (234.350 nm)	0.0053	10.27	95.2696
	Continuing Calibration Blank2	K (766.491 nm)	0.0770	63.47	-107.4828
	Continuing Calibration Blank2	Mg (279.078 nm)	0.0053	16.01	-12.4941
	Continuing Calibration Blank2	Mn (257.610 nm)	0.0001	13.54	54.8469
	Continuing Calibration Blank2	Mo (202.032 nm)	0.0036	32.40	49.3528
	Continuing Calibration Blank2	Na (588.995 nm)	0.0378	8.13	-13107.4379
	Continuing Calibration Blank2	Ni (230.299 nm)	0.0000 u	> 100.00	25.2089
	Continuing Calibration Blank2	Pb (220.353 nm)	0.0008	51.13	11.8694
	Continuing Calibration Blank2	Sb (217.582 nm)	0.0023	32.30	10.8781
	Continuing Calibration Blank2	Se (196.026 nm)	0.0005 u	> 100.00	5.1302
	Continuing Calibration Blank2	Si (252.851 nm)	-0.0045 u	15.31	15.5496
	Continuing Calibration Blank2	Sn (189.925 nm)	0.0005	33.19	4.2491
	Continuing Calibration Blank2	Sr (216.596 nm)	0.0004	40.61	6.6719
	Continuing Calibration Blank2	Ti (336.122 nm)	0.0028	43.86	552.9419
	Continuing Calibration Blank2	Tl (190.794 nm)	0.0003 u	> 100.00	-0.9162
	Continuing Calibration Blank2	V (292.401 nm)	0.0001	89.04	-38.0590
	Continuing Calibration Blank2	Y (360.074 nm)	1.07	0.09	522551.51
	Continuing Calibration Blank2	Y_R (360.074 nm)	1.07	0.09	521135.14
	Continuing Calibration Blank2	Zn (213.857 nm)	0.0005	6.37	34.0486
6/11/2024 03:10:55	R2404782-015	Ag (328.068 nm)	-0.0005 u	20.06	-244.4993
	R2404782-015	Al (237.312 nm)	0.1828	0.86	464.1626
	R2404782-015	As (188.980 nm)	0.0006 u	> 100.00	-0.9451
	R2404782-015	B (249.772 nm)	0.4428	0.05	14382.3042
	R2404782-015	Ba (230.424 nm)	0.0070	0.46	393.4988
	R2404782-015	Be (313.107 nm)	0.0001	5.48	157.3551
	R2404782-015	Ca (317.933 nm)	465.4357 o LR	0.28	16581764.6983

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404782-015	Cd (214.439 nm)	0.0002	30.22	14.1950
	R2404782-015	Co (230.786 nm)	-0.0002 u	63.16	-13.7635
	R2404782-015	Cr (267.716 nm)	0.0003	17.24	23.9634
	R2404782-015	Cu (327.395 nm)	0.0013	34.57	30.0803
	R2404782-015	Fe (234.350 nm)	0.3475	0.26	6327.6894
	R2404782-015	K (766.491 nm)	3.8419	0.26	4024.1109
	R2404782-015	Mg (279.078 nm)	155.6632 o	0.28	508663.9804
	R2404782-015	Mn (257.610 nm)	0.0353	0.15	11818.0061
	R2404782-015	Mo (202.032 nm)	0.0034	19.82	47.1116
	R2404782-015	Na (588.995 nm)	14.6812	0.31	186310.8247
	R2404782-015	Ni (230.299 nm)	0.0015	27.16	43.1982
	R2404782-015	Pb (220.353 nm)	0.0017	8.73	16.6474
	R2404782-015	Sb (217.582 nm)	0.0003 u	> 100.00	7.1629
	R2404782-015	Se (196.026 nm)	0.0003 u	> 100.00	5.0082
	R2404782-015	Si (252.851 nm)	5.6252	0.11	21466.7044
	R2404782-015	Sn (189.925 nm)	0.0007	62.58	4.7616
	R2404782-015	Sr (216.596 nm)	10.9333 o	0.25	192421.3168
	R2404782-015	Ti (336.122 nm)	0.0079	7.18	1289.9958
	R2404782-015	Tl (190.794 nm)	0.0011	80.62	-0.1370
	R2404782-015	V (292.401 nm)	0.0000 u	> 100.00	-39.9637
	R2404782-015	Y (360.074 nm)	0.98	0.89	477349.52
	R2404782-015	Y_R (360.074 nm)	0.98	0.89	476013.84
	R2404782-015	Zn (213.857 nm)	0.0102	0.59	653.6874
6/11/2024 03:14:10	R2404850-001	Ag (328.068 nm)	-0.0005 u	16.70	-245.7422
	R2404850-001	Al (237.312 nm)	0.0532	2.49	143.8628
	R2404850-001	As (188.980 nm)	0.0070	5.96	9.9055
	R2404850-001	B (249.772 nm)	0.0680	0.17	2213.5921
	R2404850-001	Ba (230.424 nm)	0.0306	0.46	1676.0856
	R2404850-001	Be (313.107 nm)	0.0001	12.59	138.3270
	R2404850-001	Ca (317.933 nm)	459.6725 o LR	0.37	16376476.5584
	R2404850-001	Cd (214.439 nm)	0.0004	13.31	25.2762
	R2404850-001	Co (230.786 nm)	0.0019	16.11	24.2718
	R2404850-001	Cr (267.716 nm)	0.0108	0.97	569.0732
	R2404850-001	Cu (327.395 nm)	0.0017	14.85	47.3241
	R2404850-001	Fe (234.350 nm)	2.4058	0.23	43805.0914
	R2404850-001	K (766.491 nm)	11.6480	0.33	12590.4915
	R2404850-001	Mg (279.078 nm)	63.6080 o	0.31	207835.5713
	R2404850-001	Mn (257.610 nm)	0.4535	0.30	151458.7982
	R2404850-001	Mo (202.032 nm)	0.0046	1.92	60.4656
	R2404850-001	Na (588.995 nm)	333.9633 o LR	0.11	4534418.7799
	R2404850-001	Ni (230.299 nm)	0.0127	2.45	174.0824
	R2404850-001	Pb (220.353 nm)	0.0019	39.64	18.0210
	R2404850-001	Sb (217.582 nm)	0.0009	75.70	8.2850
	R2404850-001	Se (196.026 nm)	-0.0016 u	> 100.00	3.6298
	R2404850-001	Si (252.851 nm)	6.1248	0.18	23370.4142
	R2404850-001	Sn (189.925 nm)	0.0002 u	> 100.00	3.5760
	R2404850-001	Sr (216.596 nm)	3.4556	0.34	60816.8341
	R2404850-001	Ti (336.122 nm)	0.0058	4.19	996.1954
	R2404850-001	Tl (190.794 nm)	0.0024	40.30	1.1593
	R2404850-001	V (292.401 nm)	-0.0001 u	> 100.00	-46.1993
	R2404850-001	Y (360.074 nm)	0.94	0.20	458123.45
	R2404850-001	Y_R (360.074 nm)	0.94	0.20	456839.10
	R2404850-001	Zn (213.857 nm)	0.0067	1.04	429.5972
6/11/2024 03:17:25	R2404850-002	Ag (328.068 nm)	-0.0008 u	9.54	-257.5604
	R2404850-002	Al (237.312 nm)	0.0267	2.72	78.1730
	R2404850-002	As (188.980 nm)	0.0001 u	> 100.00	-1.8892
	R2404850-002	B (249.772 nm)	0.0531	0.28	1728.4567

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404850-002	Ba (230.424 nm)	0.1091	0.25	5952.7133
	R2404850-002	Be (313.107 nm)	0.0001	2.31	150.8251
	R2404850-002	Ca (317.933 nm)	612.0543 o LR	0.43	21804382.7279
	R2404850-002	Cd (214.439 nm)	0.0003	33.39	19.0987
	R2404850-002	Co (230.786 nm)	0.0001 u	> 100.00	-7.6690
	R2404850-002	Cr (267.716 nm)	0.0027	4.35	146.3271
	R2404850-002	Cu (327.395 nm)	0.0014	16.03	35.6934
	R2404850-002	Fe (234.350 nm)	0.2459	0.53	4477.3117
	R2404850-002	K (766.491 nm)	24.3088	0.11	26484.3443
	R2404850-002	Mg (279.078 nm)	46.3175	0.37	151331.8839
	R2404850-002	Mn (257.610 nm)	0.4357	0.31	145515.3328
	R2404850-002	Mo (202.032 nm)	0.0025	11.08	37.7697
	R2404850-002	Na (588.995 nm)	408.2938 o LR	0.27	5546680.2108
	R2404850-002	Ni (230.299 nm)	0.0060	10.28	95.6937
	R2404850-002	Pb (220.353 nm)	0.0020	18.11	18.1712
	R2404850-002	Sb (217.582 nm)	-0.0012 u	> 100.00	4.3498
	R2404850-002	Se (196.026 nm)	-0.0040 u	90.06	1.8872
	R2404850-002	Si (252.851 nm)	5.6450	0.14	21542.1866
	R2404850-002	Sn (189.925 nm)	0.0004	76.95	4.0456
	R2404850-002	Sr (216.596 nm)	4.0590	0.37	71435.1525
	R2404850-002	Ti (336.122 nm)	0.0070	2.32	1171.1153
	R2404850-002	Tl (190.794 nm)	0.0035	14.05	2.2570
	R2404850-002	V (292.401 nm)	-0.0003 u	57.51	-52.4077
	R2404850-002	Y (360.074 nm)	0.92	0.19	448935.54
	R2404850-002	Y_R (360.074 nm)	0.92	0.19	447693.69
	R2404850-002	Zn (213.857 nm)	0.0055	1.48	354.8538
6/11/2024 03:20:41	R2404850-005	Ag (328.068 nm)	-0.0005 u	9.71	-245.1787
	R2404850-005	Al (237.312 nm)	0.0064	38.66	28.0586
	R2404850-005	As (188.980 nm)	-0.0010 u	54.49	-3.6663
	R2404850-005	B (249.772 nm)	0.0340	0.56	1111.1035
	R2404850-005	Ba (230.424 nm)	0.0503	0.54	2751.3677
	R2404850-005	Be (313.107 nm)	0.0001	15.32	109.0662
	R2404850-005	Ca (317.933 nm)	99.8273 o	0.23	3558633.5772
	R2404850-005	Cd (214.439 nm)	0.0002	28.27	16.0247
	R2404850-005	Co (230.786 nm)	-0.0003 u	50.95	-15.4459
	R2404850-005	Cr (267.716 nm)	0.0003	29.02	23.6428
	R2404850-005	Cu (327.395 nm)	0.0015	9.20	39.7501
	R2404850-005	Fe (234.350 nm)	0.0096	3.01	173.6343
	R2404850-005	K (766.491 nm)	4.5096	0.49	4756.8057
	R2404850-005	Mg (279.078 nm)	23.1847	0.18	75735.6666
	R2404850-005	Mn (257.610 nm)	0.0069	0.33	2335.6565
	R2404850-005	Mo (202.032 nm)	0.0015	38.16	28.0869
	R2404850-005	Na (588.995 nm)	52.3464	0.24	699250.9347
	R2404850-005	Ni (230.299 nm)	0.0013	27.49	40.6323
	R2404850-005	Pb (220.353 nm)	0.0010	96.99	13.2917
	R2404850-005	Sb (217.582 nm)	-0.0010 u	> 100.00	4.7318
	R2404850-005	Se (196.026 nm)	-0.0018 u	> 100.00	3.4952
	R2404850-005	Si (252.851 nm)	3.6009	0.05	13753.4519
	R2404850-005	Sn (189.925 nm)	-0.0006 u	> 100.00	1.6213
	R2404850-005	Sr (216.596 nm)	1.6224	0.28	28553.3060
	R2404850-005	Ti (336.122 nm)	0.0010	15.92	305.1105
	R2404850-005	Tl (190.794 nm)	0.0009	68.95	-0.3175
	R2404850-005	V (292.401 nm)	0.0001 u	> 100.00	-35.1086
	R2404850-005	Y (360.074 nm)	1.03	0.35	501250.88
	R2404850-005	Y_R (360.074 nm)	1.02	0.35	499871.76
	R2404850-005	Zn (213.857 nm)	0.0021	1.15	136.2457
6/11/2024 03:23:56	R2404850-006	Ag (328.068 nm)	-0.0007 u	8.62	-254.7146

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404850-006	Al (237.312 nm)	0.4019	0.60	1005.6484
	R2404850-006	As (188.980 nm)	-0.0016 u	80.33	-4.6942
	R2404850-006	B (249.772 nm)	0.0154	0.16	504.5695
	R2404850-006	Ba (230.424 nm)	0.1339	0.41	7302.7251
	R2404850-006	Be (313.107 nm)	0.0001	5.30	138.9786
	R2404850-006	Ca (317.933 nm)	291.7254 o LR	0.36	10394128.7528
	R2404850-006	Cd (214.439 nm)	0.0003	28.37	18.3984
	R2404850-006	Co (230.786 nm)	0.0016	18.43	19.1150
	R2404850-006	Cr (267.716 nm)	0.0004	36.16	24.7301
	R2404850-006	Cu (327.395 nm)	0.0018	8.62	52.3969
	R2404850-006	Fe (234.350 nm)	0.3734	0.14	6797.8006
	R2404850-006	K (766.491 nm)	4.5361	0.70	4785.8717
	R2404850-006	Mg (279.078 nm)	53.5812	0.33	175068.9023
	R2404850-006	Mn (257.610 nm)	2.1216 o	0.33	708537.6692
	R2404850-006	Mo (202.032 nm)	0.0000 u	> 100.00	12.0142
	R2404850-006	Na (588.995 nm)	137.7372 o	0.29	1862135.3012
	R2404850-006	Ni (230.299 nm)	0.0043	3.48	76.2344
	R2404850-006	Pb (220.353 nm)	0.0022	3.01	19.4055
	R2404850-006	Sb (217.582 nm)	-0.0013 u	> 100.00	4.2471
	R2404850-006	Se (196.026 nm)	0.0010 u	> 100.00	5.4933
	R2404850-006	Si (252.851 nm)	8.4056	0.08	32060.9218
	R2404850-006	Sn (189.925 nm)	0.0004 u	> 100.00	4.0150
	R2404850-006	Sr (216.596 nm)	1.3922	0.42	24501.3621
	R2404850-006	Ti (336.122 nm)	0.0138	2.62	2144.9670
	R2404850-006	Tl (190.794 nm)	0.0027	45.69	1.4276
	R2404850-006	V (292.401 nm)	0.0005	20.26	-22.7390
	R2404850-006	Y (360.074 nm)	0.98	0.21	478183.02
	R2404850-006	Y_R (360.074 nm)	0.98	0.21	476856.13
	R2404850-006	Zn (213.857 nm)	0.0027	1.25	170.7411
6/11/2024 03:27:11	R2404850-006L 5X	Ag (328.068 nm)	-0.0004 u	28.42	-238.7801
	R2404850-006L 5X	Al (237.312 nm)	0.0784	3.33	206.0942
	R2404850-006L 5X	As (188.980 nm)	-0.0008 u	8.61	-3.3480
	R2404850-006L 5X	B (249.772 nm)	0.0031	2.09	106.4685
	R2404850-006L 5X	Ba (230.424 nm)	0.0275	0.76	1507.5762
	R2404850-006L 5X	Be (313.107 nm)	0.0001	13.52	102.9804
	R2404850-006L 5X	Ca (317.933 nm)	64.0941 o	0.38	2285802.7900
	R2404850-006L 5X	Cd (214.439 nm)	0.0002	6.29	13.4168
	R2404850-006L 5X	Co (230.786 nm)	0.0001 u	> 100.00	-7.2085
	R2404850-006L 5X	Cr (267.716 nm)	0.0000 u	> 100.00	7.6907
	R2404850-006L 5X	Cu (327.395 nm)	0.0008	77.91	7.9037
	R2404850-006L 5X	Fe (234.350 nm)	0.0780	0.63	1419.4021
	R2404850-006L 5X	K (766.491 nm)	0.8782	3.81	771.6565
	R2404850-006L 5X	Mg (279.078 nm)	10.9489	0.38	35750.4359
	R2404850-006L 5X	Mn (257.610 nm)	0.4392	0.33	146680.3143
	R2404850-006L 5X	Mo (202.032 nm)	0.0001 u	> 100.00	13.1412
	R2404850-006L 5X	Na (588.995 nm)	27.7482	0.09	364262.9845
	R2404850-006L 5X	Ni (230.299 nm)	0.0011	48.91	37.9616
	R2404850-006L 5X	Pb (220.353 nm)	0.0011	25.24	13.8110
	R2404850-006L 5X	Sb (217.582 nm)	-0.0013 u	> 100.00	4.1542
	R2404850-006L 5X	Se (196.026 nm)	-0.0022 u	> 100.00	3.1440
	R2404850-006L 5X	Si (252.851 nm)	1.6743	0.27	6412.1780
	R2404850-006L 5X	Sn (189.925 nm)	-0.0006 u	45.23	1.5516
	R2404850-006L 5X	Sr (216.596 nm)	0.2875	0.40	5058.3410
	R2404850-006L 5X	Ti (336.122 nm)	0.0024	5.65	501.5569
	R2404850-006L 5X	Tl (190.794 nm)	0.0016	51.61	0.3906
	R2404850-006L 5X	V (292.401 nm)	-0.0001 u	63.09	-45.9265
	R2404850-006L 5X	Y (360.074 nm)	1.04	0.10	506439.82

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404850-006L 5X	Y_R (360.074 nm)	1.04	0.10	505061.52
	R2404850-006L 5X	Zn (213.857 nm)	0.0005	7.11	29.9829
6/11/2024 03:30:26	R2404850-001 20X	Ag (328.068 nm)	-0.0005 u	6.00	-243.5834
	R2404850-001 20X	Al (237.312 nm)	0.0068	0.28	29.1742
	R2404850-001 20X	As (188.980 nm)	0.0001 u	> 100.00	-1.7957
	R2404850-001 20X	B (249.772 nm)	0.0031	1.30	106.8391
	R2404850-001 20X	Ba (230.424 nm)	0.0016	5.29	99.1366
	R2404850-001 20X	Be (313.107 nm)	0.0001	8.84	96.8917
	R2404850-001 20X	Ca (317.933 nm)	27.2451	0.35	973226.3048
	R2404850-001 20X	Cd (214.439 nm)	0.0001	42.80	6.9930
	R2404850-001 20X	Co (230.786 nm)	-0.0001 u	> 100.00	-10.6190
	R2404850-001 20X	Cr (267.716 nm)	0.0005	23.43	33.7792
	R2404850-001 20X	Cu (327.395 nm)	0.0004	36.15	-10.3730
	R2404850-001 20X	Fe (234.350 nm)	0.1277	0.40	2324.0362
	R2404850-001 20X	K (766.491 nm)	0.5559	5.98	418.0119
	R2404850-001 20X	Mg (279.078 nm)	3.3276	0.26	10844.3724
	R2404850-001 20X	Mn (257.610 nm)	0.0239	0.35	7992.0403
	R2404850-001 20X	Mo (202.032 nm)	0.0004	92.12	16.0959
	R2404850-001 20X	Na (588.995 nm)	17.4819	0.14	224452.0304
	R2404850-001 20X	Ni (230.299 nm)	0.0007	94.69	33.6728
	R2404850-001 20X	Pb (220.353 nm)	0.0013	36.08	14.7603
	R2404850-001 20X	Sb (217.582 nm)	-0.0024 u	13.37	2.1803
	R2404850-001 20X	Se (196.026 nm)	-0.0028 u	74.05	2.7680
	R2404850-001 20X	Si (252.851 nm)	0.3145	0.48	1231.0894
	R2404850-001 20X	Sn (189.925 nm)	-0.0005 u	> 100.00	1.6761
	R2404850-001 20X	Sr (216.596 nm)	0.1841	0.19	3239.8048
	R2404850-001 20X	Ti (336.122 nm)	0.0003	21.56	204.7636
	R2404850-001 20X	Tl (190.794 nm)	0.0008	73.40	-0.4544
	R2404850-001 20X	V (292.401 nm)	-0.0003 u	52.33	-51.2418
	R2404850-001 20X	Y (360.074 nm)	1.05	0.20	514310.37
	R2404850-001 20X	Y_R (360.074 nm)	1.05	0.20	512894.74
	R2404850-001 20X	Zn (213.857 nm)	0.0002	26.04	15.8932
6/11/2024 03:33:41	R2404850-002 20X	Ag (328.068 nm)	-0.0005 u	23.90	-244.2774
	R2404850-002 20X	Al (237.312 nm)	0.0047	10.54	23.7950
	R2404850-002 20X	As (188.980 nm)	-0.0018 u	12.34	-5.0216
	R2404850-002 20X	B (249.772 nm)	0.0024	1.51	84.3067
	R2404850-002 20X	Ba (230.424 nm)	0.0058	1.92	324.8608
	R2404850-002 20X	Be (313.107 nm)	0.0001	11.66	93.9469
	R2404850-002 20X	Ca (317.933 nm)	38.8416	0.50	1386298.4499
	R2404850-002 20X	Cd (214.439 nm)	0.0001	33.30	7.5441
	R2404850-002 20X	Co (230.786 nm)	-0.0001 u	> 100.00	-11.0613
	R2404850-002 20X	Cr (267.716 nm)	0.0002	21.17	18.8767
	R2404850-002 20X	Cu (327.395 nm)	0.0003	18.31	-14.4617
	R2404850-002 20X	Fe (234.350 nm)	0.0145	1.30	264.5010
	R2404850-002 20X	K (766.491 nm)	1.0850	2.43	998.5866
	R2404850-002 20X	Mg (279.078 nm)	2.4882	0.39	8101.4154
	R2404850-002 20X	Mn (257.610 nm)	0.0232	0.49	7775.4234
	R2404850-002 20X	Mo (202.032 nm)	0.0001	64.10	13.0464
	R2404850-002 20X	Na (588.995 nm)	22.1617	0.11	288184.0875
	R2404850-002 20X	Ni (230.299 nm)	0.0002	67.13	27.7113
	R2404850-002 20X	Pb (220.353 nm)	0.0009	53.69	12.5708
	R2404850-002 20X	Sb (217.582 nm)	-0.0032 u	20.15	0.6277
	R2404850-002 20X	Se (196.026 nm)	0.0002 u	> 100.00	4.9457
	R2404850-002 20X	Si (252.851 nm)	0.2982	0.88	1168.7173
	R2404850-002 20X	Sn (189.925 nm)	-0.0004 u	> 100.00	2.0159
	R2404850-002 20X	Sr (216.596 nm)	0.2193	0.46	3859.2914
	R2404850-002 20X	Ti (336.122 nm)	0.0004	25.40	213.5017

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404850-002 20X	Tl (190.794 nm)	0.0014	77.81	0.1784
	R2404850-002 20X	V (292.401 nm)	-0.0002 u	90.21	-46.7636
	R2404850-002 20X	Y (360.074 nm)	1.04	0.01	508816.93
	R2404850-002 20X	Y_R (360.074 nm)	1.04	0.01	507431.06
	R2404850-002 20X	Zn (213.857 nm)	0.0002	13.42	16.1844
6/11/2024 03:36:57	R2404850-005 20X	Ag (328.068 nm)	-0.0003 u	55.72	-233.7652
	R2404850-005 20X	Al (237.312 nm)	0.0025	76.38	18.4766
	R2404850-005 20X	As (188.980 nm)	-0.0009 u	> 100.00	-3.4671
	R2404850-005 20X	B (249.772 nm)	0.0017	3.15	59.3234
	R2404850-005 20X	Ba (230.424 nm)	0.0026	1.20	154.1901
	R2404850-005 20X	Be (313.107 nm)	0.0001	13.29	101.1421
	R2404850-005 20X	Ca (317.933 nm)	5.3261	0.36	192460.3087
	R2404850-005 20X	Cd (214.439 nm)	0.0000 u	> 100.00	4.4747
	R2404850-005 20X	Co (230.786 nm)	-0.0002 u	42.10	-13.4610
	R2404850-005 20X	Cr (267.716 nm)	0.0004	11.16	25.7296
	R2404850-005 20X	Cu (327.395 nm)	0.0007	4.48	4.5133
	R2404850-005 20X	Fe (234.350 nm)	0.0095	0.71	171.9907
	R2404850-005 20X	K (766.491 nm)	0.2552	8.95	87.9990
	R2404850-005 20X	Mg (279.078 nm)	1.2271	0.55	3980.3145
	R2404850-005 20X	Mn (257.610 nm)	0.0006	2.78	216.6472
	R2404850-005 20X	Mo (202.032 nm)	0.0002	54.72	14.5138
	R2404850-005 20X	Na (588.995 nm)	2.7407	0.31	23701.5915
	R2404850-005 20X	Ni (230.299 nm)	0.0001 u	> 100.00	26.7187
	R2404850-005 20X	Pb (220.353 nm)	0.0002	91.20	9.1610
	R2404850-005 20X	Sb (217.582 nm)	-0.0025 u	44.38	1.9211
	R2404850-005 20X	Se (196.026 nm)	-0.0002 u	> 100.00	4.6360
	R2404850-005 20X	Si (252.851 nm)	0.1994	0.50	792.6210
	R2404850-005 20X	Sn (189.925 nm)	-0.0002 u	> 100.00	2.5966
	R2404850-005 20X	Sr (216.596 nm)	0.0858	0.40	1509.1154
	R2404850-005 20X	Ti (336.122 nm)	0.0001	49.99	168.4321
	R2404850-005 20X	Tl (190.794 nm)	0.0011 u	> 100.00	-0.1491
	R2404850-005 20X	V (292.401 nm)	-0.0003 u	40.25	-51.6440
	R2404850-005 20X	Y (360.074 nm)	1.07	0.21	521643.79
	R2404850-005 20X	Y_R (360.074 nm)	1.07	0.21	520233.36
	R2404850-005 20X	Zn (213.857 nm)	0.0001 u	> 100.00	4.6150
6/11/2024 03:40:12	R2404850-006 20X	Ag (328.068 nm)	-0.0004 u	26.81	-236.0877
	R2404850-006 20X	Al (237.312 nm)	0.0221	11.16	66.7970
	R2404850-006 20X	As (188.980 nm)	0.0000 u	> 100.00	-1.9787
	R2404850-006 20X	B (249.772 nm)	0.0005	20.74	23.3543
	R2404850-006 20X	Ba (230.424 nm)	0.0070	0.98	390.6775
	R2404850-006 20X	Be (313.107 nm)	0.0001	13.47	87.3504
	R2404850-006 20X	Ca (317.933 nm)	16.4364	0.39	588214.0499
	R2404850-006 20X	Cd (214.439 nm)	0.0001	99.72	6.8322
	R2404850-006 20X	Co (230.786 nm)	-0.0001 u	70.55	-11.8597
	R2404850-006 20X	Cr (267.716 nm)	0.0001 u	> 100.00	8.9236
	R2404850-006 20X	Cu (327.395 nm)	0.0004	13.06	-11.8071
	R2404850-006 20X	Fe (234.350 nm)	0.0208	1.52	377.5863
	R2404850-006 20X	K (766.491 nm)	0.2604	4.90	93.7776
	R2404850-006 20X	Mg (279.078 nm)	2.8108	0.46	9155.8207
	R2404850-006 20X	Mn (257.610 nm)	0.1130	0.37	37764.8999
	R2404850-006 20X	Mo (202.032 nm)	-0.0001 u	68.44	10.7277
	R2404850-006 20X	Na (588.995 nm)	7.0025	0.09	81739.9555
	R2404850-006 20X	Ni (230.299 nm)	0.0001 u	> 100.00	27.0086
	R2404850-006 20X	Pb (220.353 nm)	0.0013	48.03	14.8898
	R2404850-006 20X	Sb (217.582 nm)	-0.0040 u	50.78	-0.8597
	R2404850-006 20X	Se (196.026 nm)	-0.0027 u	60.33	2.8009
	R2404850-006 20X	Si (252.851 nm)	0.4323	0.31	1679.8722

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404850-006 20X	Sn (189.925 nm)	0.0000 u	> 100.00	2.9870
	R2404850-006 20X	Sr (216.596 nm)	0.0742	0.72	1305.7257
	R2404850-006 20X	Ti (336.122 nm)	0.0006	8.70	244.9582
	R2404850-006 20X	Tl (190.794 nm)	0.0014 u	> 100.00	0.1788
	R2404850-006 20X	V (292.401 nm)	0.0000 u	> 100.00	-38.7515
	R2404850-006 20X	Y (360.074 nm)	1.06	0.08	517504.93
	R2404850-006 20X	Y_R (360.074 nm)	1.06	0.08	516076.48
	R2404850-006 20X	Zn (213.857 nm)	0.0000 u	> 100.00	3.0771
6/11/2024 03:43:27	Continuing Calibration Verification2	Ag (328.068 nm)	0.5036	0.13	28312.5223
	Continuing Calibration Verification2	Al (237.312 nm)	9.6746	0.05	23927.4909
	Continuing Calibration Verification2	As (188.980 nm)	0.9735	0.14	1648.9091
	Continuing Calibration Verification2	B (249.772 nm)	2.3933	0.18	77717.9717
	Continuing Calibration Verification2	Ba (230.424 nm)	9.5781	0.47	521510.5104
	Continuing Calibration Verification2	Be (313.107 nm)	0.2405	0.35	264032.5104
	Continuing Calibration Verification2	Ca (317.933 nm)	26.0067	0.33	929112.8556
	Continuing Calibration Verification2	Cd (214.439 nm)	0.5076	0.34	28919.7789
	Continuing Calibration Verification2	Co (230.786 nm)	2.4805	0.22	44971.3545
	Continuing Calibration Verification2	Cr (267.716 nm)	0.5232	0.30	27202.6566
	Continuing Calibration Verification2	Cu (327.395 nm)	1.2085	0.34	53024.3415
	Continuing Calibration Verification2	Fe (234.350 nm)	5.0361	0.30	91696.5691
	Continuing Calibration Verification2	K (766.491 nm)	24.0737	0.26	26226.4173
	Continuing Calibration Verification2	Mg (279.078 nm)	25.6708	0.23	83860.0847
	Continuing Calibration Verification2	Mn (257.610 nm)	0.7438	0.29	248421.5222
	Continuing Calibration Verification2	Mo (202.032 nm)	2.7163	0.40	28366.6406
	Continuing Calibration Verification2	Na (588.995 nm)	25.4162	0.39	332504.3656
	Continuing Calibration Verification2	Ni (230.299 nm)	2.0737	0.26	24375.9208
	Continuing Calibration Verification2	Pb (220.353 nm)	0.5244	0.34	2745.5260
	Continuing Calibration Verification2	Sb (217.582 nm)	4.6527	0.21	8649.4268
	Continuing Calibration Verification2	Se (196.026 nm)	0.4739	0.55	350.2038
	Continuing Calibration Verification2	Si (252.851 nm)	9.7788	0.32	37293.2647
	Continuing Calibration Verification2	Sn (189.925 nm)	5.0107	0.25	12341.2058
	Continuing Calibration Verification2	Sr (216.596 nm)	2.4915	0.33	43849.2179
	Continuing Calibration Verification2	Ti (336.122 nm)	2.5082	0.17	362539.4709
	Continuing Calibration Verification2	Tl (190.794 nm)	0.9707	0.38	947.3647
	Continuing Calibration Verification2	V (292.401 nm)	2.5327	0.29	95978.3730
	Continuing Calibration Verification2	Y (360.074 nm)	1.03	0.40	503096.78
	Continuing Calibration Verification2	Y_R (360.074 nm)	1.03	0.40	501686.85
	Continuing Calibration Verification2	Zn (213.857 nm)	0.9880	0.15	63241.6605
6/11/2024 03:46:41	Continuing Calibration Blank2	Ag (328.068 nm)	-0.0005 u	18.98	-240.6588
	Continuing Calibration Blank2	Al (237.312 nm)	0.0036	35.96	21.1774
	Continuing Calibration Blank2	As (188.980 nm)	-0.0002 u	> 100.00	-2.4165
	Continuing Calibration Blank2	B (249.772 nm)	0.0013	32.93	47.7212
	Continuing Calibration Blank2	Ba (230.424 nm)	0.0005	4.17	38.2163
	Continuing Calibration Blank2	Be (313.107 nm)	0.0001	9.07	99.0595
	Continuing Calibration Blank2	Ca (317.933 nm)	0.0159	0.69	3309.7096
	Continuing Calibration Blank2	Cd (214.439 nm)	0.0001	27.69	6.4536
	Continuing Calibration Blank2	Co (230.786 nm)	0.0004	57.16	-2.1078
	Continuing Calibration Blank2	Cr (267.716 nm)	0.0001	69.43	13.3731
	Continuing Calibration Blank2	Cu (327.395 nm)	0.0005	32.23	-6.0152
	Continuing Calibration Blank2	Fe (234.350 nm)	0.0056	16.45	102.3169
	Continuing Calibration Blank2	K (766.491 nm)	0.0714	56.74	-113.7069
	Continuing Calibration Blank2	Mg (279.078 nm)	0.0031	7.54	-19.6250
	Continuing Calibration Blank2	Mn (257.610 nm)	0.0001	6.01	57.5874
	Continuing Calibration Blank2	Mo (202.032 nm)	0.0036	35.51	49.0784
	Continuing Calibration Blank2	Na (588.995 nm)	0.0661	11.15	-12722.9365
	Continuing Calibration Blank2	Ni (230.299 nm)	0.0002	87.70	27.7725
	Continuing Calibration Blank2	Pb (220.353 nm)	0.0004 u	> 100.00	10.2240

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank2	Sb (217.582 nm)	0.0023	34.32	10.7853
	Continuing Calibration Blank2	Se (196.026 nm)	-0.0022 u	87.39	3.1731
	Continuing Calibration Blank2	Si (252.851 nm)	-0.0050 u	15.00	13.4715
	Continuing Calibration Blank2	Sn (189.925 nm)	0.0009 u	> 100.00	5.3392
	Continuing Calibration Blank2	Sr (216.596 nm)	0.0004	31.77	6.4871
	Continuing Calibration Blank2	Ti (336.122 nm)	0.0029	41.84	568.7133
	Continuing Calibration Blank2	Tl (190.794 nm)	0.0006 u	> 100.00	-0.6078
	Continuing Calibration Blank2	V (292.401 nm)	-0.0002 u	58.27	-46.4537
	Continuing Calibration Blank2	Y (360.074 nm)	1.07	0.15	522087.60
	Continuing Calibration Blank2	Y_R (360.074 nm)	1.07	0.15	520651.63
	Continuing Calibration Blank2	Zn (213.857 nm)	0.0005	10.70	33.0512
6/11/2024 03:49:55	Contract Required Detection Limit	Ag (328.068 nm)	0.0081	1.34	246.1947
	Contract Required Detection Limit	Al (237.312 nm)	0.1916	0.72	485.9702
	Contract Required Detection Limit	As (188.980 nm)	0.0187	11.13	29.6795
	Contract Required Detection Limit	B (249.772 nm)	0.1872	0.22	6085.5481
	Contract Required Detection Limit	Ba (230.424 nm)	0.1923	0.54	10478.9267
	Contract Required Detection Limit	Be (313.107 nm)	0.0049	0.60	5388.6243
	Contract Required Detection Limit	Ca (317.933 nm)	1.0502	0.31	40150.8526
	Contract Required Detection Limit	Cd (214.439 nm)	0.0107	0.51	610.4563
	Contract Required Detection Limit	Co (230.786 nm)	0.0497	0.30	890.6806
	Contract Required Detection Limit	Cr (267.716 nm)	0.0096	1.72	503.7226
	Contract Required Detection Limit	Cu (327.395 nm)	0.0241	1.33	1030.0241
	Contract Required Detection Limit	Fe (234.350 nm)	0.1070	0.96	1947.8663
	Contract Required Detection Limit	K (766.491 nm)	0.9561	1.90	857.2101
	Contract Required Detection Limit	Mg (279.078 nm)	1.0148	0.38	3286.6624
	Contract Required Detection Limit	Mn (257.610 nm)	0.0139	0.19	4652.3788
	Contract Required Detection Limit	Mo (202.032 nm)	0.0274	1.79	297.5854
	Contract Required Detection Limit	Na (588.995 nm)	1.0411	0.99	554.7596
	Contract Required Detection Limit	Ni (230.299 nm)	0.0356	1.40	443.6845
	Contract Required Detection Limit	Pb (220.353 nm)	0.0115	4.25	68.0628
	Contract Required Detection Limit	Sb (217.582 nm)	0.0551	4.26	109.0219
	Contract Required Detection Limit	Se (196.026 nm)	0.0091	32.80	11.3876
	Contract Required Detection Limit	Si (252.851 nm)	0.0459	3.30	207.5770
	Contract Required Detection Limit	Sn (189.925 nm)	0.5000	1.01	1234.2824
	Contract Required Detection Limit	Sr (216.596 nm)	0.0988	0.22	1738.6971
	Contract Required Detection Limit	Ti (336.122 nm)	0.0493	1.27	7277.9842
	Contract Required Detection Limit	Tl (190.794 nm)	0.0206	4.15	18.8848
	Contract Required Detection Limit	V (292.401 nm)	0.0493	0.50	1829.3294
	Contract Required Detection Limit	Y (360.074 nm)	1.07	0.26	521689.68
	Contract Required Detection Limit	Y_R (360.074 nm)	1.07	0.26	520271.32
	Contract Required Detection Limit	Zn (213.857 nm)	0.0172	0.37	1101.0028
6/11/2024 03:53:09	Interference Check Solution A	Ag (328.068 nm)	-0.0005 u	18.30	-244.6067
	Interference Check Solution A	Al (237.312 nm)	243.6947 o	0.11	602416.0995
	Interference Check Solution A	As (188.980 nm)	-0.0021 u	> 100.00	-5.5305
	Interference Check Solution A	B (249.772 nm)	0.0971	0.29	3157.3061
	Interference Check Solution A	Ba (230.424 nm)	-0.0005 u	10.89	-14.7550
	Interference Check Solution A	Be (313.107 nm)	0.0002	3.69	288.8724
	Interference Check Solution A	Ca (317.933 nm)	237.1722 o	0.43	8450919.2914
	Interference Check Solution A	Cd (214.439 nm)	-0.0004 u	17.40	-22.8854
	Interference Check Solution A	Co (230.786 nm)	-0.0002 u	> 100.00	-12.6476
	Interference Check Solution A	Cr (267.716 nm)	0.0036	2.26	192.7970
	Interference Check Solution A	Cu (327.395 nm)	0.0086	0.69	350.1182
	Interference Check Solution A	Fe (234.350 nm)	92.8909 o	0.39	1691362.5824
	Interference Check Solution A	K (766.491 nm)	0.0427 u	> 100.00	-145.2075
	Interference Check Solution A	Mg (279.078 nm)	262.6389 o	0.40	858251.4604
	Interference Check Solution A	Mn (257.610 nm)	0.0012	0.11	404.0253
	Interference Check Solution A	Mo (202.032 nm)	0.0014	10.21	26.7297

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Interference Check Solution A	Na (588.995 nm)	-0.0025 u	> 100.00	-13656.2342
	Interference Check Solution A	Ni (230.299 nm)	0.0033	23.38	63.5129
	Interference Check Solution A	Pb (220.353 nm)	0.0032	13.29	24.4920
	Interference Check Solution A	Sb (217.582 nm)	-0.0057 u	3.21	-3.9250
	Interference Check Solution A	Se (196.026 nm)	-0.0065 u	36.67	0.0600
	Interference Check Solution A	Si (252.851 nm)	0.0373	4.60	174.8061
	Interference Check Solution A	Sn (189.925 nm)	0.0016	62.66	6.9199
	Interference Check Solution A	Sr (216.596 nm)	0.0111	2.92	194.8696
	Interference Check Solution A	Ti (336.122 nm)	0.0027	13.44	551.0111
	Interference Check Solution A	Tl (190.794 nm)	0.0016	77.85	0.3263
	Interference Check Solution A	V (292.401 nm)	0.0013	3.45	10.5206
	Interference Check Solution A	Y (360.074 nm)	0.95	0.26	462852.87
	Interference Check Solution A	Y_R (360.074 nm)	0.95	0.26	461562.02
	Interference Check Solution A	Zn (213.857 nm)	0.0133 K	0.37	853.9196 K
6/11/2024 03:56:23	Interference Check Solution AB	Ag (328.068 nm)	0.1966	0.20	10925.6548
	Interference Check Solution AB	Al (237.312 nm)	244.6232 o	0.17	604711.2222
	Interference Check Solution AB	As (188.980 nm)	0.0995	1.41	166.7457
	Interference Check Solution AB	B (249.772 nm)	0.0950	0.37	3089.6550
	Interference Check Solution AB	Ba (230.424 nm)	0.4927	0.32	26838.8979
	Interference Check Solution AB	Be (313.107 nm)	0.4906	0.26	538553.0213
	Interference Check Solution AB	Ca (317.933 nm)	238.5649 o	0.30	8500526.7943
	Interference Check Solution AB	Cd (214.439 nm)	0.9854	0.25	56142.3801
	Interference Check Solution AB	Co (230.786 nm)	0.4804	0.21	8701.3530
	Interference Check Solution AB	Cr (267.716 nm)	0.5240	0.30	27244.3909
	Interference Check Solution AB	Cu (327.395 nm)	0.5286	0.10	23178.5546
	Interference Check Solution AB	Fe (234.350 nm)	93.5019 o	0.27	1702488.5852
	Interference Check Solution AB	K (766.491 nm)	0.0046 u	> 100.00	-186.9810
	Interference Check Solution AB	Mg (279.078 nm)	264.5010 o	0.25	864336.5490
	Interference Check Solution AB	Mn (257.610 nm)	0.4947	0.27	165237.5031
	Interference Check Solution AB	Mo (202.032 nm)	0.0014	28.93	26.1869
	Interference Check Solution AB	Na (588.995 nm)	-0.0176 u	26.41	-13862.7310
	Interference Check Solution AB	Ni (230.299 nm)	0.9879	0.21	11625.7538
	Interference Check Solution AB	Pb (220.353 nm)	0.0531	2.73	285.2882
	Interference Check Solution AB	Sb (217.582 nm)	0.5751	0.48	1074.8380
	Interference Check Solution AB	Se (196.026 nm)	0.0440	8.99	36.8694
	Interference Check Solution AB	Si (252.851 nm)	0.0804	0.22	338.9129
	Interference Check Solution AB	Sn (189.925 nm)	0.0006 u	> 100.00	4.4942
	Interference Check Solution AB	Sr (216.596 nm)	0.0114	1.00	199.6899
	Interference Check Solution AB	Ti (336.122 nm)	0.0025	12.86	520.3482
	Interference Check Solution AB	Tl (190.794 nm)	0.0989	0.65	95.4307
	Interference Check Solution AB	V (292.401 nm)	0.5197	0.22	19662.2252
	Interference Check Solution AB	Y (360.074 nm)	0.95	0.45	463101.66
	Interference Check Solution AB	Y_R (360.074 nm)	0.95	0.45	461788.98
	Interference Check Solution AB	Zn (213.857 nm)	1.0225	0.20	65449.2381
6/11/2024 03:59:37	Continuing Calibration Verification2	Ag (328.068 nm)	0.5027	0.08	28265.9143
	Continuing Calibration Verification2	Al (237.312 nm)	9.6475	0.04	23860.6128
	Continuing Calibration Verification2	As (188.980 nm)	0.9732	0.23	1648.4969
	Continuing Calibration Verification2	B (249.772 nm)	2.3935	0.16	77724.6806
	Continuing Calibration Verification2	Ba (230.424 nm)	9.5665	0.40	520875.9275
	Continuing Calibration Verification2	Be (313.107 nm)	0.2409	0.27	264461.2634
	Continuing Calibration Verification2	Ca (317.933 nm)	26.1246	0.27	933311.7316
	Continuing Calibration Verification2	Cd (214.439 nm)	0.5096	0.35	29033.9000
	Continuing Calibration Verification2	Co (230.786 nm)	2.4840	0.44	45034.1722
	Continuing Calibration Verification2	Cr (267.716 nm)	0.5238	0.31	27232.5681
	Continuing Calibration Verification2	Cu (327.395 nm)	1.2049	0.04	52866.5729
	Continuing Calibration Verification2	Fe (234.350 nm)	5.0753	0.32	92410.5043
	Continuing Calibration Verification2	K (766.491 nm)	23.7941	0.11	25919.5528

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification2	Mg (279.078 nm)	25.7772	0.25	84208.0225
	Continuing Calibration Verification2	Mn (257.610 nm)	0.7438	0.27	248412.4229
	Continuing Calibration Verification2	Mo (202.032 nm)	2.7193	0.31	28397.9722
	Continuing Calibration Verification2	Na (588.995 nm)	25.1223	0.21	328502.9980
	Continuing Calibration Verification2	Ni (230.299 nm)	2.0739	0.27	24378.3151
	Continuing Calibration Verification2	Pb (220.353 nm)	0.5258	0.04	2753.0087
	Continuing Calibration Verification2	Sb (217.582 nm)	4.6236	0.22	8595.3151
	Continuing Calibration Verification2	Se (196.026 nm)	0.4729	0.43	349.4941
	Continuing Calibration Verification2	Si (252.851 nm)	9.7545	0.36	37200.6586
	Continuing Calibration Verification2	Sn (189.925 nm)	5.0162	0.25	12354.9423
	Continuing Calibration Verification2	Sr (216.596 nm)	2.4970	0.21	43944.9376
	Continuing Calibration Verification2	Ti (336.122 nm)	2.5082	0.15	362529.0555
	Continuing Calibration Verification2	Tl (190.794 nm)	0.9714	0.60	948.0521
	Continuing Calibration Verification2	V (292.401 nm)	2.5337	0.32	96018.9333
	Continuing Calibration Verification2	Y (360.074 nm)	1.03	0.40	503266.34
	Continuing Calibration Verification2	Y_R (360.074 nm)	1.03	0.40	501876.52
	Continuing Calibration Verification2	Zn (213.857 nm)	0.9876	0.24	63217.2301
6/11/2024 04:02:51	Continuing Calibration Blank2	Ag (328.068 nm)	-0.0005 u	23.28	-242.3486
	Continuing Calibration Blank2	Al (237.312 nm)	0.0053	4.95	25.2860
	Continuing Calibration Blank2	As (188.980 nm)	0.0002 u	> 100.00	-1.7574
	Continuing Calibration Blank2	B (249.772 nm)	0.0014	22.19	51.2840
	Continuing Calibration Blank2	Ba (230.424 nm)	0.0006	22.30	46.5179
	Continuing Calibration Blank2	Be (313.107 nm)	0.0001	10.76	124.8906
	Continuing Calibration Blank2	Ca (317.933 nm)	0.0176	1.38	3371.0831
	Continuing Calibration Blank2	Cd (214.439 nm)	0.0001	27.17	10.3754
	Continuing Calibration Blank2	Co (230.786 nm)	0.0003	34.25	-4.6047
	Continuing Calibration Blank2	Cr (267.716 nm)	0.0002	43.75	16.5623
	Continuing Calibration Blank2	Cu (327.395 nm)	0.0005	22.16	-4.2740
	Continuing Calibration Blank2	Fe (234.350 nm)	0.0066	18.73	120.6163
	Continuing Calibration Blank2	K (766.491 nm)	0.0535	49.81	-133.3236
	Continuing Calibration Blank2	Mg (279.078 nm)	0.0046	9.77	-14.8845
	Continuing Calibration Blank2	Mn (257.610 nm)	0.0001	13.72	67.3561
	Continuing Calibration Blank2	Mo (202.032 nm)	0.0033	32.96	46.0547
	Continuing Calibration Blank2	Na (588.995 nm)	0.0378	12.76	-13108.6428
	Continuing Calibration Blank2	Ni (230.299 nm)	0.0002	84.59	27.9868
	Continuing Calibration Blank2	Pb (220.353 nm)	0.0009	> 100.00	12.3697
	Continuing Calibration Blank2	Sb (217.582 nm)	0.0026	40.69	11.4070
	Continuing Calibration Blank2	Se (196.026 nm)	-0.0011 u	> 100.00	3.9537
	Continuing Calibration Blank2	Si (252.851 nm)	-0.0039 u	29.51	17.7965
	Continuing Calibration Blank2	Sn (189.925 nm)	0.0008 u	> 100.00	5.0382
	Continuing Calibration Blank2	Sr (216.596 nm)	0.0005	25.65	7.7594
	Continuing Calibration Blank2	Ti (336.122 nm)	0.0027	44.56	550.7602
	Continuing Calibration Blank2	Tl (190.794 nm)	0.0011 u	> 100.00	-0.0871
	Continuing Calibration Blank2	V (292.401 nm)	0.0000 u	> 100.00	-39.6395
	Continuing Calibration Blank2	Y (360.074 nm)	1.07	0.07	522325.87
	Continuing Calibration Blank2	Y_R (360.074 nm)	1.07	0.07	520898.71
	Continuing Calibration Blank2	Zn (213.857 nm)	0.0006	5.82	39.8202
6/11/2024 04:06:05	PBS-439481	Ag (328.068 nm)	-0.0005 u	50.78	-242.3665
	PBS-439481	Al (237.312 nm)	0.0022	96.94	17.6138
	PBS-439481	As (188.980 nm)	-0.0003 u	> 100.00	-2.5439
	PBS-439481	B (249.772 nm)	0.0012	11.30	43.5292
	PBS-439481	Ba (230.424 nm)	-0.0001 u	19.61	5.0982
	PBS-439481	Be (313.107 nm)	0.0001	9.78	98.5868
	PBS-439481	Ca (317.933 nm)	0.0132	1.28	3212.9806
	PBS-439481	Cd (214.439 nm)	0.0004	8.40	25.0264
	PBS-439481	Co (230.786 nm)	-0.0002 u	> 100.00	-12.6945
	PBS-439481	Cr (267.716 nm)	0.0008	16.72	45.8435

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	PBS-439481	Cu (327.395 nm)	0.0004	70.68	-12.0711
	PBS-439481	Fe (234.350 nm)	0.0083	15.87	149.9121
	PBS-439481	K (766.491 nm)	0.0348	47.16	-153.8271
	PBS-439481	Mg (279.078 nm)	0.0018	23.45	-23.9296
	PBS-439481	Mn (257.610 nm)	0.0001	14.74	58.6619
	PBS-439481	Mo (202.032 nm)	0.0008	32.69	19.9634
	PBS-439481	Na (588.995 nm)	0.0426	6.89	-13042.9479
	PBS-439481	Ni (230.299 nm)	-0.0014 u	25.30	9.1341
	PBS-439481	Pb (220.353 nm)	0.0010	19.53	13.4008
	PBS-439481	Sb (217.582 nm)	0.0013 u	> 100.00	8.9312
	PBS-439481	Se (196.026 nm)	-0.0009 u	> 100.00	4.0999
	PBS-439481	Si (252.851 nm)	0.0060	27.17	55.4658
	PBS-439481	Sn (189.925 nm)	0.0101	3.86	28.0051
	PBS-439481	Sr (216.596 nm)	0.0002	54.58	3.5675
	PBS-439481	Ti (336.122 nm)	0.0009	71.12	286.4476
	PBS-439481	Tl (190.794 nm)	-0.0008 u	> 100.00	-1.9495
	PBS-439481	V (292.401 nm)	0.0000 u	> 100.00	-41.3082
	PBS-439481	Y (360.074 nm)	1.07	0.30	523386.24
	PBS-439481	Y_R (360.074 nm)	1.07	0.30	521988.05
	PBS-439481	Zn (213.857 nm)	-0.0006 u	5.58	-37.8167
6/11/2024 04:09:21	LCSS-439481	Ag (328.068 nm)	0.0464	0.21	2415.9743
	LCSS-439481	Al (237.312 nm)	1.8162	0.18	4501.8610
	LCSS-439481	As (188.980 nm)	0.0348	4.94	56.9811
	LCSS-439481	B (249.772 nm)	0.8946	0.17	29053.0323
	LCSS-439481	Ba (230.424 nm)	1.8640	0.38	101498.3303
	LCSS-439481	Be (313.107 nm)	0.0461	0.37	50597.4507
	LCSS-439481	Ca (317.933 nm)	2.0095	0.35	74322.8393
	LCSS-439481	Cd (214.439 nm)	0.0500	0.24	2849.8924
	LCSS-439481	Co (230.786 nm)	0.4800	0.39	8694.5672
	LCSS-439481	Cr (267.716 nm)	0.2016	0.38	10483.6334
	LCSS-439481	Cu (327.395 nm)	0.2382	0.11	10428.2714
	LCSS-439481	Fe (234.350 nm)	1.0075	0.33	18343.4553
	LCSS-439481	K (766.491 nm)	17.7552	0.24	19292.4540
	LCSS-439481	Mg (279.078 nm)	1.9023	0.30	6186.6270
	LCSS-439481	Mn (257.610 nm)	0.4760	0.30	158966.2110
	LCSS-439481	Mo (202.032 nm)	0.5145	0.11	5382.9771
	LCSS-439481	Na (588.995 nm)	18.7668	0.24	241951.3401
	LCSS-439481	Ni (230.299 nm)	0.4995	0.48	5890.2466
	LCSS-439481	Pb (220.353 nm)	0.5125	0.49	2683.5827
	LCSS-439481	Sb (217.582 nm)	0.4392	0.25	822.3680
	LCSS-439481	Se (196.026 nm)	0.8779	0.47	644.7169
	LCSS-439481	Si (252.851 nm)	-0.0195 u	3.41	-41.4817
	LCSS-439481	Sn (189.925 nm)	4.8046	0.23	11833.6571
	LCSS-439481	Sr (216.596 nm)	1.9427	0.38	34189.1626
	LCSS-439481	Ti (336.122 nm)	0.4817	0.16	69751.7678
	LCSS-439481	Tl (190.794 nm)	1.8484	0.29	1805.0039
	LCSS-439481	V (292.401 nm)	0.4828	0.30	18264.8699
	LCSS-439481	Y (360.074 nm)	1.05	0.24	513521.75
	LCSS-439481	Y_R (360.074 nm)	1.05	0.24	512157.50
	LCSS-439481	Zn (213.857 nm)	0.4696	0.17	30056.0867
6/11/2024 04:12:36	R2404703-001	Ag (328.068 nm)	-0.0004 u	7.09	-237.8784
	R2404703-001	Al (237.312 nm)	0.0087	18.87	33.8368
	R2404703-001	As (188.980 nm)	0.0024	22.16	2.0263
	R2404703-001	B (249.772 nm)	0.0016	0.97	58.3963
	R2404703-001	Ba (230.424 nm)	0.0174	0.68	960.3049
	R2404703-001	Be (313.107 nm)	0.0001	10.13	97.8083
	R2404703-001	Ca (317.933 nm)	0.0569	0.40	4769.6950

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404703-001	Cd (214.439 nm)	0.0004	32.05	24.0784
	R2404703-001	Co (230.786 nm)	0.0002	18.72	-5.5175
	R2404703-001	Cr (267.716 nm)	0.0010	7.23	57.3022
	R2404703-001	Cu (327.395 nm)	0.0244	0.17	1042.5870
	R2404703-001	Fe (234.350 nm)	0.0344	2.06	625.3657
	R2404703-001	K (766.491 nm)	0.0795	35.26	-104.8051
	R2404703-001	Mg (279.078 nm)	0.0044	17.62	-15.3262
	R2404703-001	Mn (257.610 nm)	0.0006	1.50	219.1424
	R2404703-001	Mo (202.032 nm)	0.0027	17.73	40.5016
	R2404703-001	Na (588.995 nm)	0.0743	2.89	-12611.3117
	R2404703-001	Ni (230.299 nm)	0.0036	2.82	67.4530
	R2404703-001	Pb (220.353 nm)	0.0024	20.46	20.3144
	R2404703-001	Sb (217.582 nm)	0.0407	1.82	82.1335
	R2404703-001	Se (196.026 nm)	0.0003 u	> 100.00	4.9939
	R2404703-001	Si (252.851 nm)	0.1172	0.32	479.1578
	R2404703-001	Sn (189.925 nm)	0.0128	5.70	34.6428
	R2404703-001	Sr (216.596 nm)	0.0007	45.67	11.1448
	R2404703-001	Ti (336.122 nm)	0.0015	30.81	375.6526
	R2404703-001	Tl (190.794 nm)	-0.0040 u	70.04	-5.1072
	R2404703-001	V (292.401 nm)	-0.0002 u	70.15	-46.8251
	R2404703-001	Y (360.074 nm)	1.08	0.46	529052.93
	R2404703-001	Y_R (360.074 nm)	1.08	0.46	527652.12
	R2404703-001	Zn (213.857 nm)	0.0179	0.43	1148.0487
6/11/2024 04:15:51	R2404704-001	Ag (328.068 nm)	-0.0004 u	51.30	-239.2398
	R2404704-001	Al (237.312 nm)	0.0030	11.42	19.7596
	R2404704-001	As (188.980 nm)	0.0015	88.85	0.5786
	R2404704-001	B (249.772 nm)	0.0011	16.11	42.7387
	R2404704-001	Ba (230.424 nm)	0.0000	> 100.00	13.6686
	R2404704-001	Be (313.107 nm)	0.0001	11.10	91.4623
	R2404704-001	Ca (317.933 nm)	0.0156	1.63	3297.9095
	R2404704-001	Cd (214.439 nm)	0.0003	9.64	21.2550
	R2404704-001	Co (230.786 nm)	-0.0001 u	91.26	-11.0319
	R2404704-001	Cr (267.716 nm)	0.0008	9.94	48.9539
	R2404704-001	Cu (327.395 nm)	0.0308	1.63	1322.4460
	R2404704-001	Fe (234.350 nm)	0.0062	9.70	113.1533
	R2404704-001	K (766.491 nm)	0.0518	20.19	-135.1958
	R2404704-001	Mg (279.078 nm)	0.0017	24.22	-24.1121
	R2404704-001	Mn (257.610 nm)	0.0021	1.07	710.2028
	R2404704-001	Mo (202.032 nm)	0.0009	35.13	21.7064
	R2404704-001	Na (588.995 nm)	0.0676	5.17	-12701.6486
	R2404704-001	Ni (230.299 nm)	0.0086	1.62	126.4251
	R2404704-001	Pb (220.353 nm)	0.0019	32.00	17.8053
	R2404704-001	Sb (217.582 nm)	0.0315	1.63	65.0425
	R2404704-001	Se (196.026 nm)	0.0001 u	> 100.00	4.8260
	R2404704-001	Si (252.851 nm)	0.0303	3.79	148.0787
	R2404704-001	Sn (189.925 nm)	0.0145	4.24	38.8197
	R2404704-001	Sr (216.596 nm)	0.0002	> 100.00	2.8081
	R2404704-001	Ti (336.122 nm)	0.0001 u	> 100.00	175.8780
	R2404704-001	Tl (190.794 nm)	-0.0026 u	66.96	-3.7460
	R2404704-001	V (292.401 nm)	0.0000 u	> 100.00	-39.6225
	R2404704-001	Y (360.074 nm)	1.08	0.24	529429.26
	R2404704-001	Y_R (360.074 nm)	1.08	0.24	528043.34
	R2404704-001	Zn (213.857 nm)	0.0000	> 100.00	3.0729
6/11/2024 04:19:07	R2404731-001	Ag (328.068 nm)	-0.0008 u	10.69	-262.0441
	R2404731-001	Al (237.312 nm)	13.5608	0.18	33534.0573
	R2404731-001	As (188.980 nm)	0.0064	41.43	8.8336
	R2404731-001	B (249.772 nm)	0.0446	0.74	1454.0808

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404731-001	Ba (230.424 nm)	0.1561	0.13	8508.8843
	R2404731-001	Be (313.107 nm)	0.0011	1.29	1225.7946
	R2404731-001	Ca (317.933 nm)	#### LR	N/A	####
	R2404731-001	Cd (214.439 nm)	0.0010	0.57	59.0075
	R2404731-001	Co (230.786 nm)	0.0056	5.14	92.7440
	R2404731-001	Cr (267.716 nm)	0.0300	0.73	1563.1379
	R2404731-001	Cu (327.395 nm)	1.1053	0.57	48491.8555
	R2404731-001	Fe (234.350 nm)	32.3568 o	0.40	589154.0660
	R2404731-001	K (766.491 nm)	0.3769	8.42	221.6202
	R2404731-001	Mg (279.078 nm)	13.3000	0.30	43433.4316
	R2404731-001	Mn (257.610 nm)	0.6128	0.34	204652.4046
	R2404731-001	Mo (202.032 nm)	0.0019	17.97	31.6064
	R2404731-001	Na (588.995 nm)	36.2598	0.04	480177.0636
	R2404731-001	Ni (230.299 nm)	0.0308	0.43	386.7838
	R2404731-001	Pb (220.353 nm)	0.0509	1.63	273.8749
	R2404731-001	Sb (217.582 nm)	0.0020	57.68	10.2970
	R2404731-001	Se (196.026 nm)	-0.0004 u	> 100.00	4.4585
	R2404731-001	Si (252.851 nm)	7.0968	0.10	27073.8048
	R2404731-001	Sn (189.925 nm)	0.0122	7.36	33.0368
	R2404731-001	Sr (216.596 nm)	1.5729	0.44	27681.8083
	R2404731-001	Ti (336.122 nm)	0.9498	0.15	137376.9988
	R2404731-001	Tl (190.794 nm)	0.0010 u	> 100.00	-0.2275
	R2404731-001	V (292.401 nm)	0.0189	1.69	674.9713
	R2404731-001	Y (360.074 nm)	0.86	0.29	420684.44
	R2404731-001	Y_R (360.074 nm)	0.86	0.29	419540.31
	R2404731-001	Zn (213.857 nm)	0.0945	0.23	6052.0269
6/11/2024 04:22:22	R2404731-001S	Ag (328.068 nm)	0.0531	0.67	2794.7132
	R2404731-001S	Al (237.312 nm)	15.0869	0.22	37306.4427
	R2404731-001S	As (188.980 nm)	0.0480	2.90	79.4039
	R2404731-001S	B (249.772 nm)	1.0370	0.25	33679.4873
	R2404731-001S	Ba (230.424 nm)	1.9463	0.58	105978.6675
	R2404731-001S	Be (313.107 nm)	0.0465	0.25	51060.6974
	R2404731-001S	Ca (317.933 nm)	####	N/A	####
	R2404731-001S	Cd (214.439 nm)	0.0469	0.07	2676.6746
	R2404731-001S	Co (230.786 nm)	0.4492	0.33	8136.2494
	R2404731-001S	Cr (267.716 nm)	0.2204	0.21	11460.5699
	R2404731-001S	Cu (327.395 nm)	1.2503	0.38	54856.2886
	R2404731-001S	Fe (234.350 nm)	30.7531 o	0.27	559954.4118
	R2404731-001S	K (766.491 nm)	24.4358	0.12	26623.7724
	R2404731-001S	Mg (279.078 nm)	16.0101	0.25	52289.9346
	R2404731-001S	Mn (257.610 nm)	1.0762	0.31	359406.4267
	R2404731-001S	Mo (202.032 nm)	0.4994	0.23	5224.8814
	R2404731-001S	Na (588.995 nm)	56.0068 o	0.09	749099.4931
	R2404731-001S	Ni (230.299 nm)	0.4945	0.21	5831.9575
	R2404731-001S	Pb (220.353 nm)	0.5232	0.44	2739.2586
	R2404731-001S	Sb (217.582 nm)	0.4537	0.18	849.4264
	R2404731-001S	Se (196.026 nm)	0.9848	0.29	722.6501
	R2404731-001S	Si (252.851 nm)	6.8011	0.12	25947.2119
	R2404731-001S	Sn (189.925 nm)	4.6122	0.28	11360.0895
	R2404731-001S	Sr (216.596 nm)	3.3445	0.45	58860.8403
	R2404731-001S	Ti (336.122 nm)	1.4459	0.18	209060.3421
	R2404731-001S	Tl (190.794 nm)	1.6751	0.49	1635.5894
	R2404731-001S	V (292.401 nm)	0.5008	0.18	18945.9889
	R2404731-001S	Y (360.074 nm)	0.87	0.33	423422.02
	R2404731-001S	Y_R (360.074 nm)	0.87	0.33	422262.80
	R2404731-001S	Zn (213.857 nm)	0.5906	0.17	37806.2378
6/11/2024 04:25:37	R2404731-001SD	Ag (328.068 nm)	0.0536	0.29	2822.1895

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404731-001SD	Al (237.312 nm)	14.3437	0.18	35469.3067
	R2404731-001SD	As (188.980 nm)	0.0484	3.97	80.0311
	R2404731-001SD	B (249.772 nm)	1.0457	0.26	33962.2522
	R2404731-001SD	Ba (230.424 nm)	1.9483	0.43	106088.5906
	R2404731-001SD	Be (313.107 nm)	0.0467	0.28	51286.3514
	R2404731-001SD	Ca (317.933 nm)	####	N/A	####
	R2404731-001SD	Cd (214.439 nm)	0.0473	0.73	2698.3771
	R2404731-001SD	Co (230.786 nm)	0.4516	0.35	8180.0400
	R2404731-001SD	Cr (267.716 nm)	0.2231	0.36	11603.4505
	R2404731-001SD	Cu (327.395 nm)	1.3863	0.50	60826.2765
	R2404731-001SD	Fe (234.350 nm)	28.6589 o	0.37	521822.0069
	R2404731-001SD	K (766.491 nm)	24.8484	0.23	27076.5472
	R2404731-001SD	Mg (279.078 nm)	14.9451	0.28	48809.4788
	R2404731-001SD	Mn (257.610 nm)	1.0540	0.36	352018.8783
	R2404731-001SD	Mo (202.032 nm)	0.5097	0.35	5332.9858
	R2404731-001SD	Na (588.995 nm)	56.2940 o	0.02	753010.7352
	R2404731-001SD	Ni (230.299 nm)	0.4937	0.44	5822.5262
	R2404731-001SD	Pb (220.353 nm)	0.5255	0.47	2751.4946
	R2404731-001SD	Sb (217.582 nm)	0.4636	0.13	867.8100
	R2404731-001SD	Se (196.026 nm)	0.9870	0.38	724.2218
	R2404731-001SD	Si (252.851 nm)	6.7711	0.13	25832.7856
	R2404731-001SD	Sn (189.925 nm)	4.6032	0.29	11337.8949
	R2404731-001SD	Sr (216.596 nm)	3.3379	0.49	58744.7453
	R2404731-001SD	Ti (336.122 nm)	1.3410	0.24	193900.0540
	R2404731-001SD	Tl (190.794 nm)	1.6984	0.36	1658.4298
	R2404731-001SD	V (292.401 nm)	0.5032	0.27	19038.5086
	R2404731-001SD	Y (360.074 nm)	0.86	0.29	422377.55
	R2404731-001SD	Y_R (360.074 nm)	0.86	0.29	421214.17
	R2404731-001SD	Zn (213.857 nm)	0.5849	0.29	37437.1038
6/11/2024 04:28:52	R2404731-001A	Ag (328.068 nm)	0.0524	0.06	2755.8380
	R2404731-001A	Al (237.312 nm)	15.2752	0.10	37772.0670
	R2404731-001A	As (188.980 nm)	0.0447	2.05	73.8017
	R2404731-001A	B (249.772 nm)	1.0358	0.22	33638.8095
	R2404731-001A	Ba (230.424 nm)	1.9040	0.14	103679.7862
	R2404731-001A	Be (313.107 nm)	0.0456	0.20	50044.6729
	R2404731-001A	Ca (317.933 nm)	####	N/A	####
	R2404731-001A	Cd (214.439 nm)	0.0461	0.26	2627.5992
	R2404731-001A	Co (230.786 nm)	0.4422	0.31	8008.6281
	R2404731-001A	Cr (267.716 nm)	0.2175	0.28	11312.1360
	R2404731-001A	Cu (327.395 nm)	1.3183	0.16	57843.4145
	R2404731-001A	Fe (234.350 nm)	32.3992 o	0.24	589926.4360
	R2404731-001A	K (766.491 nm)	24.3470	0.17	26526.3333
	R2404731-001A	Mg (279.078 nm)	14.6650	0.22	47894.1742
	R2404731-001A	Mn (257.610 nm)	1.0527	0.26	351580.0893
	R2404731-001A	Mo (202.032 nm)	0.4990	0.12	5220.9474
	R2404731-001A	Na (588.995 nm)	57.5763 o	0.15	770473.0602
	R2404731-001A	Ni (230.299 nm)	0.4835	0.42	5703.0923
	R2404731-001A	Pb (220.353 nm)	0.5186	0.46	2715.1591
	R2404731-001A	Sb (217.582 nm)	0.4648	0.13	869.9967
	R2404731-001A	Se (196.026 nm)	0.9750	0.70	715.4443
	R2404731-001A	Si (252.851 nm)	6.9131	0.07	26373.9624
	R2404731-001A	Sn (189.925 nm)	4.5105	0.29	11109.6394
	R2404731-001A	Sr (216.596 nm)	3.2947	0.14	57985.1978
	R2404731-001A	Ti (336.122 nm)	1.3995	0.17	202351.5419
	R2404731-001A	Tl (190.794 nm)	1.6524	0.12	1613.4340
	R2404731-001A	V (292.401 nm)	0.4935	0.18	18668.7973
	R2404731-001A	Y (360.074 nm)	0.86	0.29	421515.66

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404731-001A	Y_R (360.074 nm)	0.86	0.29	420331.20
	R2404731-001A	Zn (213.857 nm)	0.5913	0.18	37848.3865
6/11/2024 04:32:07	R2404731-001L 5X	Ag (328.068 nm)	-0.0005 u	51.80	-241.6268
	R2404731-001L 5X	Al (237.312 nm)	2.6457	0.21	6552.4342
	R2404731-001L 5X	As (188.980 nm)	-0.0003 u	> 100.00	-2.5235
	R2404731-001L 5X	B (249.772 nm)	0.0102	1.53	337.8004
	R2404731-001L 5X	Ba (230.424 nm)	0.0326	0.18	1784.3245
	R2404731-001L 5X	Be (313.107 nm)	0.0003	3.18	348.3560
	R2404731-001L 5X	Ca (317.933 nm)	545.9937 o	0.41	19451272.6387
	R2404731-001L 5X	Cd (214.439 nm)	0.0004	35.05	22.1270
	R2404731-001L 5X	Co (230.786 nm)	0.0013	16.24	13.2127
	R2404731-001L 5X	Cr (267.716 nm)	0.0062	3.20	329.5854
	R2404731-001L 5X	Cu (327.395 nm)	0.2170	0.37	9497.8580
	R2404731-001L 5X	Fe (234.350 nm)	6.8749	0.40	125177.9620
	R2404731-001L 5X	K (766.491 nm)	0.1145	18.02	-66.3383
	R2404731-001L 5X	Mg (279.078 nm)	2.8901	0.44	9414.7896
	R2404731-001L 5X	Mn (257.610 nm)	0.1271	0.33	42467.2353
	R2404731-001L 5X	Mo (202.032 nm)	0.0017	42.72	30.1632
	R2404731-001L 5X	Na (588.995 nm)	6.7962	0.08	78930.9708
	R2404731-001L 5X	Ni (230.299 nm)	0.0071	3.34	108.4793
	R2404731-001L 5X	Pb (220.353 nm)	0.0115	1.44	68.2015
	R2404731-001L 5X	Sb (217.582 nm)	-0.0034 u	46.68	0.2903
	R2404731-001L 5X	Se (196.026 nm)	-0.0008 u	> 100.00	4.1754
	R2404731-001L 5X	Si (252.851 nm)	1.4039	0.39	5381.9306
	R2404731-001L 5X	Sn (189.925 nm)	0.0037	5.33	12.2237
	R2404731-001L 5X	Sr (216.596 nm)	0.3291	0.40	5791.8209
	R2404731-001L 5X	Ti (336.122 nm)	0.1942	0.55	28217.4168
	R2404731-001L 5X	Tl (190.794 nm)	0.0020	91.91	0.7101
	R2404731-001L 5X	V (292.401 nm)	0.0036	5.48	96.8055
	R2404731-001L 5X	Y (360.074 nm)	0.98	0.08	478283.84
	R2404731-001L 5X	Y_R (360.074 nm)	0.98	0.08	476960.76
	R2404731-001L 5X	Zn (213.857 nm)	0.0190	0.60	1219.8720
6/11/2024 04:35:23	R2404731-002	Ag (328.068 nm)	-0.0007 u	16.76	-255.4549
	R2404731-002	Al (237.312 nm)	11.6277	0.16	28755.4823
	R2404731-002	As (188.980 nm)	0.0048	12.28	6.1541
	R2404731-002	B (249.772 nm)	0.0377	0.63	1228.7652
	R2404731-002	Ba (230.424 nm)	0.1563	0.28	8519.7244
	R2404731-002	Be (313.107 nm)	0.0010	0.64	1065.8117
	R2404731-002	Ca (317.933 nm)	#### LR	N/A	####
	R2404731-002	Cd (214.439 nm)	0.0011	15.24	64.2504
	R2404731-002	Co (230.786 nm)	0.0056	9.75	91.1508
	R2404731-002	Cr (267.716 nm)	0.0282	0.34	1471.3157
	R2404731-002	Cu (327.395 nm)	1.0279	0.28	45093.4318
	R2404731-002	Fe (234.350 nm)	25.9733 o	0.26	472923.3992
	R2404731-002	K (766.491 nm)	0.3583	6.12	201.1254
	R2404731-002	Mg (279.078 nm)	9.8375	0.19	32118.4314
	R2404731-002	Mn (257.610 nm)	0.5888	0.27	196639.1778
	R2404731-002	Mo (202.032 nm)	0.0012	71.56	24.2856
	R2404731-002	Na (588.995 nm)	32.3747	0.13	427268.5059
	R2404731-002	Ni (230.299 nm)	0.0264	2.07	334.7696
	R2404731-002	Pb (220.353 nm)	0.0793	0.46	421.9240
	R2404731-002	Sb (217.582 nm)	-0.0051 u	33.72	-2.8475
	R2404731-002	Se (196.026 nm)	0.0001 u	> 100.00	4.8693
	R2404731-002	Si (252.851 nm)	7.4838	0.04	28548.6186
	R2404731-002	Sn (189.925 nm)	0.0125	4.59	33.7523
	R2404731-002	Sr (216.596 nm)	1.4518	0.39	25549.4858
	R2404731-002	Ti (336.122 nm)	1.0061	0.15	145510.3305

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404731-002	Tl (190.794 nm)	0.0012 u	> 100.00	-0.0614
	R2404731-002	V (292.401 nm)	0.0157	0.54	553.6441
	R2404731-002	Y (360.074 nm)	0.87	0.45	424741.23
	R2404731-002	Y_R (360.074 nm)	0.87	0.45	423537.47
	R2404731-002	Zn (213.857 nm)	0.1479	0.28	9466.5805
6/11/2024 04:38:38	Continuing Calibration Verification2	Ag (328.068 nm)	0.5023	0.18	28240.8696
	Continuing Calibration Verification2	Al (237.312 nm)	9.6467	0.04	23858.6416
	Continuing Calibration Verification2	As (188.980 nm)	0.9782	0.26	1656.9571
	Continuing Calibration Verification2	B (249.772 nm)	2.3906	0.23	77631.4581
	Continuing Calibration Verification2	Ba (230.424 nm)	9.5719	0.77	521173.3647
	Continuing Calibration Verification2	Be (313.107 nm)	0.2400	0.35	263443.6679
	Continuing Calibration Verification2	Ca (317.933 nm)	26.1179	0.35	933072.5870
	Continuing Calibration Verification2	Cd (214.439 nm)	0.5092	0.39	29011.4597
	Continuing Calibration Verification2	Co (230.786 nm)	2.4787	0.30	44937.2666
	Continuing Calibration Verification2	Cr (267.716 nm)	0.5229	0.40	27185.7786
	Continuing Calibration Verification2	Cu (327.395 nm)	1.2062	0.16	52923.5083
	Continuing Calibration Verification2	Fe (234.350 nm)	5.0573	0.31	92083.7341
	Continuing Calibration Verification2	K (766.491 nm)	24.0817	0.05	26235.2054
	Continuing Calibration Verification2	Mg (279.078 nm)	25.6612	0.33	83828.9547
	Continuing Calibration Verification2	Mn (257.610 nm)	0.7435	0.35	248323.8775
	Continuing Calibration Verification2	Mo (202.032 nm)	2.7230	0.35	28436.3460
	Continuing Calibration Verification2	Na (588.995 nm)	25.3885	0.26	332126.9604
	Continuing Calibration Verification2	Ni (230.299 nm)	2.0738	0.32	24377.1688
	Continuing Calibration Verification2	Pb (220.353 nm)	0.5253	0.37	2750.4279
	Continuing Calibration Verification2	Sb (217.582 nm)	4.6256	0.09	8599.0561
	Continuing Calibration Verification2	Se (196.026 nm)	0.4764	0.95	352.0306
	Continuing Calibration Verification2	Si (252.851 nm)	9.7479	0.47	37175.4591
	Continuing Calibration Verification2	Sn (189.925 nm)	5.0157	0.48	12353.6694
	Continuing Calibration Verification2	Sr (216.596 nm)	2.4902	0.51	43825.5549
	Continuing Calibration Verification2	Ti (336.122 nm)	2.5083	0.21	362553.4395
	Continuing Calibration Verification2	Tl (190.794 nm)	0.9709	0.35	947.4944
	Continuing Calibration Verification2	V (292.401 nm)	2.5282	0.37	95809.1942
	Continuing Calibration Verification2	Y (360.074 nm)	1.04	0.15	505780.56
	Continuing Calibration Verification2	Y_R (360.074 nm)	1.03	0.15	504380.23
	Continuing Calibration Verification2	Zn (213.857 nm)	0.9863	0.20	63131.1744
6/11/2024 04:41:52	Continuing Calibration Blank2	Ag (328.068 nm)	-0.0004 u	37.43	-240.0488
	Continuing Calibration Blank2	Al (237.312 nm)	0.0039	38.21	21.8419
	Continuing Calibration Blank2	As (188.980 nm)	0.0002 u	> 100.00	-1.6549
	Continuing Calibration Blank2	B (249.772 nm)	0.0015	13.78	54.5943
	Continuing Calibration Blank2	Ba (230.424 nm)	0.0006	18.39	45.9828
	Continuing Calibration Blank2	Be (313.107 nm)	0.0001	9.12	110.5352
	Continuing Calibration Blank2	Ca (317.933 nm)	0.0296	4.17	3797.0592
	Continuing Calibration Blank2	Cd (214.439 nm)	0.0001	25.05	9.8195
	Continuing Calibration Blank2	Co (230.786 nm)	0.0002	56.96	-6.0505
	Continuing Calibration Blank2	Cr (267.716 nm)	0.0001 u	> 100.00	12.4513
	Continuing Calibration Blank2	Cu (327.395 nm)	0.0007	20.56	2.4501
	Continuing Calibration Blank2	Fe (234.350 nm)	0.0061	15.04	110.2259
	Continuing Calibration Blank2	K (766.491 nm)	0.0781	42.38	-106.3297
	Continuing Calibration Blank2	Mg (279.078 nm)	0.0030	27.37	-19.9226
	Continuing Calibration Blank2	Mn (257.610 nm)	0.0001	16.19	65.7713
	Continuing Calibration Blank2	Mo (202.032 nm)	0.0035	39.86	48.8104
	Continuing Calibration Blank2	Na (588.995 nm)	0.0653	7.71	-12733.9407
	Continuing Calibration Blank2	Ni (230.299 nm)	0.0006	63.62	32.2178
	Continuing Calibration Blank2	Pb (220.353 nm)	0.0007	30.97	11.5132
	Continuing Calibration Blank2	Sb (217.582 nm)	0.0022	34.89	10.7181
	Continuing Calibration Blank2	Se (196.026 nm)	-0.0013 u	> 100.00	3.8191
	Continuing Calibration Blank2	Si (252.851 nm)	-0.0036 u	31.57	18.7807

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank2	Sn (189.925 nm)	0.0007	26.76	4.7450
	Continuing Calibration Blank2	Sr (216.596 nm)	0.0003	76.80	4.4732
	Continuing Calibration Blank2	Ti (336.122 nm)	0.0029	44.79	571.6051
	Continuing Calibration Blank2	Tl (190.794 nm)	0.0006 u	> 100.00	-0.5882
	Continuing Calibration Blank2	V (292.401 nm)	0.0001 u	> 100.00	-36.4628
	Continuing Calibration Blank2	Y (360.074 nm)	1.07	0.12	525127.75
	Continuing Calibration Blank2	Y_R (360.074 nm)	1.07	0.12	523675.96
	Continuing Calibration Blank2	Zn (213.857 nm)	0.0006	4.78	39.4805
6/11/2024 04:45:07	R2404750-001	Ag (328.068 nm)	0.0034	2.05	-19.3100
	R2404750-001	Al (237.312 nm)	8.7225	0.08	21573.8478
	R2404750-001	As (188.980 nm)	0.0096	8.67	14.2693
	R2404750-001	B (249.772 nm)	0.0937	0.33	3047.2317
	R2404750-001	Ba (230.424 nm)	1.3264	0.24	72227.3717
	R2404750-001	Be (313.107 nm)	0.0003	2.70	394.8887
	R2404750-001	Ca (317.933 nm)	68.8297 o	0.31	2454486.0220
	R2404750-001	Cd (214.439 nm)	0.0045	3.40	257.6451
	R2404750-001	Co (230.786 nm)	0.0068	3.77	113.4777
	R2404750-001	Cr (267.716 nm)	0.1006	0.34	5235.4337
	R2404750-001	Cu (327.395 nm)	1.1298	0.53	49568.7222
	R2404750-001	Fe (234.350 nm)	60.2229 o	0.28	1096542.4885
	R2404750-001	K (766.491 nm)	2.4926	0.74	2543.3221
	R2404750-001	Mg (279.078 nm)	10.4777	0.16	34210.3085
	R2404750-001	Mn (257.610 nm)	1.3804	0.22	460994.7582
	R2404750-001	Mo (202.032 nm)	0.0404	0.54	433.8902
	R2404750-001	Na (588.995 nm)	1.7689	0.29	10466.2771
	R2404750-001	Ni (230.299 nm)	0.0311	2.06	390.7660
	R2404750-001	Pb (220.353 nm)	0.0692	1.21	368.9468
	R2404750-001	Sb (217.582 nm)	0.0119	20.05	28.7403
	R2404750-001	Se (196.026 nm)	0.0109	23.48	12.7027
	R2404750-001	Si (252.851 nm)	4.2786	0.22	16335.5184
	R2404750-001	Sn (189.925 nm)	0.1126	1.45	280.2085
	R2404750-001	Sr (216.596 nm)	0.2757	0.19	4850.9926
	R2404750-001	Ti (336.122 nm)	0.1472	0.34	21415.3526
	R2404750-001	Tl (190.794 nm)	0.0003 u	> 100.00	-0.9395
	R2404750-001	V (292.401 nm)	0.0264	0.88	960.5596
	R2404750-001	Y (360.074 nm)	1.05	0.54	510983.12
	R2404750-001	Y_R (360.074 nm)	1.04	0.54	509550.91
	R2404750-001	Zn (213.857 nm)	2.6965 o	0.17	172596.7973
6/11/2024 04:48:22	R2404750-002	Ag (328.068 nm)	0.0150	1.59	637.7694
	R2404750-002	Al (237.312 nm)	21.8841	0.07	54108.9974
	R2404750-002	As (188.980 nm)	0.0620	1.41	103.0396
	R2404750-002	B (249.772 nm)	0.4623	0.20	15015.7877
	R2404750-002	Ba (230.424 nm)	3.8800	0.31	211267.3135
	R2404750-002	Be (313.107 nm)	0.0008	0.56	915.6091
	R2404750-002	Ca (317.933 nm)	188.0297 o	0.37	6700443.2608
	R2404750-002	Cd (214.439 nm)	0.0134	0.41	762.6305
	R2404750-002	Co (230.786 nm)	0.0237	1.83	420.2935
	R2404750-002	Cr (267.716 nm)	0.4031	0.32	20958.5499
	R2404750-002	Cu (327.395 nm)	3.7523 o	0.14	164687.2798
	R2404750-002	Fe (234.350 nm)	283.7361 o	0.36	5166283.7584
	R2404750-002	K (766.491 nm)	11.4158	0.11	12335.6215
	R2404750-002	Mg (279.078 nm)	23.6362	0.29	77211.3341
	R2404750-002	Mn (257.610 nm)	6.8822 o	0.30	2298354.7580
	R2404750-002	Mo (202.032 nm)	0.0732	0.33	776.2163
	R2404750-002	Na (588.995 nm)	6.9714	0.17	81316.1243
	R2404750-002	Ni (230.299 nm)	0.1215	0.64	1452.1044
	R2404750-002	Pb (220.353 nm)	0.2448	0.62	1286.0143

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404750-002	Sb (217.582 nm)	0.0080	8.98	21.4037
	R2404750-002	Se (196.026 nm)	0.0171	3.86	17.2182
	R2404750-002	Si (252.851 nm)	7.7549	0.30	29581.3992
	R2404750-002	Sn (189.925 nm)	0.3065	0.34	757.7574
	R2404750-002	Sr (216.596 nm)	0.8849	0.22	15573.3600
	R2404750-002	Ti (336.122 nm)	0.3579	0.14	51861.9178
	R2404750-002	Tl (190.794 nm)	0.0002 u	> 100.00	-0.9920
	R2404750-002	V (292.401 nm)	0.0698	0.21	2606.3516
	R2404750-002	Y (360.074 nm)	1.02	0.34	496707.04
	R2404750-002	Y_R (360.074 nm)	1.02	0.34	495286.17
	R2404750-002	Zn (213.857 nm)	8.7488 o LR	0.46	559994.7409
6/11/2024 04:51:38	R2404765-001	Ag (328.068 nm)	0.0073	0.96	198.2475
	R2404765-001	Al (237.312 nm)	12.8935	0.06	31884.5126
	R2404765-001	As (188.980 nm)	0.0180	3.26	28.5440
	R2404765-001	B (249.772 nm)	0.1933	0.27	6282.0182
	R2404765-001	Ba (230.424 nm)	1.7587	0.30	95765.3139
	R2404765-001	Be (313.107 nm)	0.0004	2.19	441.8267
	R2404765-001	Ca (317.933 nm)	92.2616 o	0.34	3289140.2162
	R2404765-001	Cd (214.439 nm)	0.0046	0.61	265.1594
	R2404765-001	Co (230.786 nm)	0.0143	0.92	249.8282
	R2404765-001	Cr (267.716 nm)	0.2104	0.14	10942.7410
	R2404765-001	Cu (327.395 nm)	1.7201	0.23	75480.2889
	R2404765-001	Fe (234.350 nm)	114.1980 o	0.25	2079324.4582
	R2404765-001	K (766.491 nm)	1.9876	1.43	1989.2011
	R2404765-001	Mg (279.078 nm)	12.3395	0.26	40294.7851
	R2404765-001	Mn (257.610 nm)	0.7424	0.22	247959.2231
	R2404765-001	Mo (202.032 nm)	0.0310	0.33	335.7834
	R2404765-001	Na (588.995 nm)	3.0693	0.18	28175.6156
	R2404765-001	Ni (230.299 nm)	0.0444	0.51	546.8466
	R2404765-001	Pb (220.353 nm)	0.0998	0.43	528.7790
	R2404765-001	Sb (217.582 nm)	0.0089	23.59	23.2112
	R2404765-001	Se (196.026 nm)	0.0081	19.53	10.6820
	R2404765-001	Si (252.851 nm)	5.9898	0.20	22855.8813
	R2404765-001	Sn (189.925 nm)	0.1485	0.42	368.6077
	R2404765-001	Sr (216.596 nm)	0.6198	0.36	10908.3166
	R2404765-001	Ti (336.122 nm)	0.1606	0.41	23360.3209
	R2404765-001	Tl (190.794 nm)	0.0003 u	> 100.00	-0.9499
	R2404765-001	V (292.401 nm)	0.0280	0.29	1020.5356
	R2404765-001	Y (360.074 nm)	1.05	0.35	510767.98
	R2404765-001	Y_R (360.074 nm)	1.04	0.35	509320.72
	R2404765-001	Zn (213.857 nm)	2.5387 o	0.16	162499.3082
6/11/2024 04:54:53	R2404705-001	Ag (328.068 nm)	-0.0005 u	10.15	-241.9001
	R2404705-001	Al (237.312 nm)	0.0026	41.35	18.8213
	R2404705-001	As (188.980 nm)	0.0033	15.38	3.5112
	R2404705-001	B (249.772 nm)	0.0014	11.62	49.6512
	R2404705-001	Ba (230.424 nm)	0.0026	2.45	150.6635
	R2404705-001	Be (313.107 nm)	0.0001	8.88	99.7827
	R2404705-001	Ca (317.933 nm)	0.0314	1.09	3860.7565
	R2404705-001	Cd (214.439 nm)	0.0004	14.22	22.2724
	R2404705-001	Co (230.786 nm)	0.0001	83.30	-7.5020
	R2404705-001	Cr (267.716 nm)	0.0006	12.26	37.2550
	R2404705-001	Cu (327.395 nm)	0.0053	5.63	204.6467
	R2404705-001	Fe (234.350 nm)	0.0398	19.50	723.4576
	R2404705-001	K (766.491 nm)	0.0773	24.13	-107.1875
	R2404705-001	Mg (279.078 nm)	0.0018	53.48	-23.8328
	R2404705-001	Mn (257.610 nm)	0.0003	3.92	125.5900
	R2404705-001	Mo (202.032 nm)	0.0007	45.52	19.3866

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404705-001	Na (588.995 nm)	0.1191	2.26	-12000.2197
	R2404705-001	Ni (230.299 nm)	-0.0007 u	60.40	17.5467
	R2404705-001	Pb (220.353 nm)	0.0015	29.64	15.8778
	R2404705-001	Sb (217.582 nm)	0.0177	9.67	39.4339
	R2404705-001	Se (196.026 nm)	-0.0028 u	62.03	2.7118
	R2404705-001	Si (252.851 nm)	0.2537	0.53	999.5257
	R2404705-001	Sn (189.925 nm)	0.0117	4.60	31.9033
	R2404705-001	Sr (216.596 nm)	0.0003	40.51	5.0715
	R2404705-001	Ti (336.122 nm)	0.0008	74.95	263.9322
	R2404705-001	Tl (190.794 nm)	-0.0048 u	12.01	-5.9417
	R2404705-001	V (292.401 nm)	0.0000 u	> 100.00	-41.2501
	R2404705-001	Y (360.074 nm)	1.09	0.17	534606.18
	R2404705-001	Y_R (360.074 nm)	1.09	0.17	533099.87
	R2404705-001	Zn (213.857 nm)	0.0022	0.43	140.5308
6/11/2024 04:58:08	R2404731-001 10X	Ag (328.068 nm)	-0.0005 u	15.09	-245.6666
	R2404731-001 10X	Al (237.312 nm)	1.3035	0.16	3234.5944
	R2404731-001 10X	As (188.980 nm)	-0.0012 u	21.60	-4.0089
	R2404731-001 10X	B (249.772 nm)	0.0048	4.79	160.3309
	R2404731-001 10X	Ba (230.424 nm)	0.0162	0.76	892.4531
	R2404731-001 10X	Be (313.107 nm)	0.0002	4.55	214.2382
	R2404731-001 10X	Ca (317.933 nm)	298.4958 o LR	0.18	10635290.4450
	R2404731-001 10X	Cd (214.439 nm)	0.0003	27.02	18.2708
	R2404731-001 10X	Co (230.786 nm)	0.0006	30.44	1.7075
	R2404731-001 10X	Cr (267.716 nm)	0.0032	3.30	171.7022
	R2404731-001 10X	Cu (327.395 nm)	0.1075	0.23	4691.6985
	R2404731-001 10X	Fe (234.350 nm)	3.4470	0.05	62763.3407
	R2404731-001 10X	K (766.491 nm)	0.0502	50.72	-136.9160
	R2404731-001 10X	Mg (279.078 nm)	1.4659	0.13	4760.6258
	R2404731-001 10X	Mn (257.610 nm)	0.0642	0.12	21447.9337
	R2404731-001 10X	Mo (202.032 nm)	0.0000 u	> 100.00	12.2892
	R2404731-001 10X	Na (588.995 nm)	3.2783	0.21	31022.1386
	R2404731-001 10X	Ni (230.299 nm)	0.0035	13.36	66.0627
	R2404731-001 10X	Pb (220.353 nm)	0.0064	4.68	41.4496
	R2404731-001 10X	Sb (217.582 nm)	-0.0016 u	> 100.00	3.6800
	R2404731-001 10X	Se (196.026 nm)	-0.0034 u	> 100.00	2.3316
	R2404731-001 10X	Si (252.851 nm)	0.7075	0.21	2728.4608
	R2404731-001 10X	Sn (189.925 nm)	0.0022	53.73	8.5217
	R2404731-001 10X	Sr (216.596 nm)	0.1674	0.26	2945.5660
	R2404731-001 10X	Ti (336.122 nm)	0.0950	0.09	13883.8562
	R2404731-001 10X	Tl (190.794 nm)	0.0017	82.34	0.5058
	R2404731-001 10X	V (292.401 nm)	0.0017	1.55	24.5747
	R2404731-001 10X	Y (360.074 nm)	1.01	0.05	495853.49
	R2404731-001 10X	Y_R (360.074 nm)	1.01	0.05	494415.12
	R2404731-001 10X	Zn (213.857 nm)	0.0094	0.71	604.0093
6/11/2024 05:01:24	R2404731-001S 10X	Ag (328.068 nm)	0.0046	4.19	43.8214
	R2404731-001S 10X	Al (237.312 nm)	1.4418	0.34	3576.3702
	R2404731-001S 10X	As (188.980 nm)	0.0035	28.74	3.9700
	R2404731-001S 10X	B (249.772 nm)	0.1016	0.54	3305.4605
	R2404731-001S 10X	Ba (230.424 nm)	0.2013	0.29	10971.7292
	R2404731-001S 10X	Be (313.107 nm)	0.0049	0.23	5352.4032
	R2404731-001S 10X	Ca (317.933 nm)	279.2668 o	0.26	9950348.3179
	R2404731-001S 10X	Cd (214.439 nm)	0.0051	1.81	293.7550
	R2404731-001S 10X	Co (230.786 nm)	0.0474	0.75	850.4869
	R2404731-001S 10X	Cr (267.716 nm)	0.0229	0.51	1198.1129
	R2404731-001S 10X	Cu (327.395 nm)	0.1205	0.11	5264.1202
	R2404731-001S 10X	Fe (234.350 nm)	3.2481	0.35	59140.4639
	R2404731-001S 10X	K (766.491 nm)	2.0764	0.96	2086.6472

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404731-001S 10X	Mg (279.078 nm)	1.7496	0.40	5687.9166
	R2404731-001S 10X	Mn (257.610 nm)	0.1117	0.16	37310.6531
	R2404731-001S 10X	Mo (202.032 nm)	0.0503	0.78	536.7148
	R2404731-001S 10X	Na (588.995 nm)	5.1402	0.27	56378.0198
	R2404731-001S 10X	Ni (230.299 nm)	0.0534	0.62	652.6482
	R2404731-001S 10X	Pb (220.353 nm)	0.0570	1.96	305.6162
	R2404731-001S 10X	Sb (217.582 nm)	0.0424	4.72	85.4254
	R2404731-001S 10X	Se (196.026 nm)	0.0992	0.57	77.0897
	R2404731-001S 10X	Si (252.851 nm)	0.6725	0.12	2594.9547
	R2404731-001S 10X	Sn (189.925 nm)	0.4919	0.25	1214.3720
	R2404731-001S 10X	Sr (216.596 nm)	0.3519	0.20	6193.3661
	R2404731-001S 10X	Ti (336.122 nm)	0.1438	0.18	20935.4052
	R2404731-001S 10X	Tl (190.794 nm)	0.1911	1.06	185.5495
	R2404731-001S 10X	V (292.401 nm)	0.0497	0.10	1843.6420
	R2404731-001S 10X	Y (360.074 nm)	1.01	0.20	495371.04
	R2404731-001S 10X	Y_R (360.074 nm)	1.01	0.20	493947.77
	R2404731-001S 10X	Zn (213.857 nm)	0.0584	0.21	3736.3030
6/11/2024 05:04:39	R2404731-001SD 10X	Ag (328.068 nm)	0.0047	3.01	54.1186
	R2404731-001SD 10X	Al (237.312 nm)	1.3820	0.16	3428.6265
	R2404731-001SD 10X	As (188.980 nm)	0.0045	42.30	5.6322
	R2404731-001SD 10X	B (249.772 nm)	0.1041	0.09	3386.6941
	R2404731-001SD 10X	Ba (230.424 nm)	0.2036	0.32	11095.7464
	R2404731-001SD 10X	Be (313.107 nm)	0.0049	0.43	5431.9950
	R2404731-001SD 10X	Ca (317.933 nm)	285.8553 o	0.37	10185032.7351
	R2404731-001SD 10X	Cd (214.439 nm)	0.0053	1.40	303.8478
	R2404731-001SD 10X	Co (230.786 nm)	0.0486	0.58	870.9279
	R2404731-001SD 10X	Cr (267.716 nm)	0.0235	0.25	1225.4261
	R2404731-001SD 10X	Cu (327.395 nm)	0.1353	0.31	5910.1643
	R2404731-001SD 10X	Fe (234.350 nm)	3.0533	0.38	55594.6794
	R2404731-001SD 10X	K (766.491 nm)	2.1378	1.98	2153.9838
	R2404731-001SD 10X	Mg (279.078 nm)	1.6535	0.31	5373.7161
	R2404731-001SD 10X	Mn (257.610 nm)	0.1106	0.34	36966.5474
	R2404731-001SD 10X	Mo (202.032 nm)	0.0521	0.54	556.1615
	R2404731-001SD 10X	Na (588.995 nm)	5.1982	0.15	57168.7732
	R2404731-001SD 10X	Ni (230.299 nm)	0.0539	1.53	658.0833
	R2404731-001SD 10X	Pb (220.353 nm)	0.0580	0.68	310.9178
	R2404731-001SD 10X	Sb (217.582 nm)	0.0429	1.37	86.3220
	R2404731-001SD 10X	Se (196.026 nm)	0.1041	5.41	80.6427
	R2404731-001SD 10X	Si (252.851 nm)	0.6730	0.17	2597.1715
	R2404731-001SD 10X	Sn (189.925 nm)	0.4951	0.35	1222.1475
	R2404731-001SD 10X	Sr (216.596 nm)	0.3556	0.48	6258.6136
	R2404731-001SD 10X	Ti (336.122 nm)	0.1349	0.22	19649.2981
	R2404731-001SD 10X	Tl (190.794 nm)	0.1928	0.97	187.1989
	R2404731-001SD 10X	V (292.401 nm)	0.0505	0.60	1873.8547
	R2404731-001SD 10X	Y (360.074 nm)	1.01	0.06	493522.94
	R2404731-001SD 10X	Y_R (360.074 nm)	1.01	0.06	492105.38
	R2404731-001SD 10X	Zn (213.857 nm)	0.0584	0.23	3735.5608
6/11/2024 05:07:54	R2404731-001 10X R2404731-001A 100x	Ag (328.068 nm)	0.0498	0.67	2606.6963
	R2404731-001 10X	Al (237.312 nm)	3.2248	0.14	7983.8281
	R2404731-001 10X	As (188.980 nm)	0.0385	2.63	63.2913
	R2404731-001 10X	B (249.772 nm)	0.9922	0.35	32223.5421
	R2404731-001 10X	Ba (230.424 nm)	1.8338	0.08	99854.3010
	R2404731-001 10X	Be (313.107 nm)	0.0469	0.36	51507.0757
	R2404731-001 10X	Ca (317.933 nm)	292.2971 o	0.40	10414492.2458
	R2404731-001 10X	Cd (214.439 nm)	0.0489	0.23	2789.6995
	R2404731-001 10X	Co (230.786 nm)	0.4673	0.27	8463.6017
	R2404731-001 10X	Cr (267.716 nm)	0.1992	0.42	10361.1872

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404731-001 10X	Cu (327.395 nm)	0.3455	0.15	15137.5012
	R2404731-001 10X	Fe (234.350 nm)	4.3136	0.35	78541.8925
	R2404731-001 10X	K (766.491 nm)	20.0317	0.15	21790.7326
	R2404731-001 10X	Mg (279.078 nm)	3.3513	0.32	10921.9210
	R2404731-001 10X	Mn (257.610 nm)	0.5349	0.36	178646.6689
	R2404731-001 10X	Mo (202.032 nm)	0.5068	0.41	5302.1133
	R2404731-001 10X	Na (588.995 nm)	24.0568	0.06	313992.6706
	R2404731-001 10X	Ni (230.299 nm)	0.4947	0.61	5834.1620
	R2404731-001 10X	Pb (220.353 nm)	0.5159	0.50	2701.1179
	R2404731-001 10X	Sb (217.582 nm)	0.4670	0.45	874.1089
	R2404731-001 10X	Se (196.026 nm)	1.0193	0.17	747.7702
	R2404731-001 10X	Si (252.851 nm)	0.6812	0.33	2628.1803
	R2404731-001 10X	Sn (189.925 nm)	4.7972	0.38	11815.4817
	R2404731-001 10X	Sr (216.596 nm)	2.0355	0.35	35824.0367
	R2404731-001 10X	Ti (336.122 nm)	0.5700	0.16	82509.9585
	R2404731-001 10X	Tl (190.794 nm)	1.8539	0.27	1810.3976
	R2404731-001 10X	V (292.401 nm)	0.4842	0.34	18315.1570
	R2404731-001 10X	Y (360.074 nm)	1.00	0.13	490215.03
	R2404731-001 10X	Y_R (360.074 nm)	1.00	0.13	488801.18
	R2404731-001 10X	Zn (213.857 nm)	0.5102	0.33	32657.6135
6/11/2024 05:11:10	R2404731-001L 50X	Ag (328.068 nm)	-0.0005 u	27.75	-244.0541
	R2404731-001L 50X	Al (237.312 nm)	0.2605	0.34	656.3382
	R2404731-001L 50X	As (188.980 nm)	-0.0005 u	> 100.00	-2.8653
	R2404731-001L 50X	B (249.772 nm)	0.0012	19.97	45.8534
	R2404731-001L 50X	Ba (230.424 nm)	0.0032	0.93	187.8014
	R2404731-001L 50X	Be (313.107 nm)	0.0001	7.35	123.7888
	R2404731-001L 50X	Ca (317.933 nm)	64.2737 o	0.43	2292199.2400
	R2404731-001L 50X	Cd (214.439 nm)	0.0001 u	98.17	7.8403
	R2404731-001L 50X	Co (230.786 nm)	0.0000 u	> 100.00	-9.0567
	R2404731-001L 50X	Cr (267.716 nm)	0.0006	28.72	39.6145
	R2404731-001L 50X	Cu (327.395 nm)	0.0216	1.25	918.5541
	R2404731-001L 50X	Fe (234.350 nm)	0.7017	0.50	12775.8431
	R2404731-001L 50X	K (766.491 nm)	0.0769	21.27	-107.6793
	R2404731-001L 50X	Mg (279.078 nm)	0.3017	0.71	956.3004
	R2404731-001L 50X	Mn (257.610 nm)	0.0130	0.23	4346.9803
	R2404731-001L 50X	Mo (202.032 nm)	0.0024	39.54	37.0189
	R2404731-001L 50X	Na (588.995 nm)	0.6456	0.56	-4830.8594
	R2404731-001L 50X	Ni (230.299 nm)	0.0008	41.82	34.8863
	R2404731-001L 50X	Pb (220.353 nm)	0.0018	16.44	17.4678
	R2404731-001L 50X	Sb (217.582 nm)	-0.0021 u	80.52	2.7452
	R2404731-001L 50X	Se (196.026 nm)	-0.0013 u	> 100.00	3.7990
	R2404731-001L 50X	Si (252.851 nm)	0.1527	0.11	614.6423
	R2404731-001L 50X	Sn (189.925 nm)	0.0022	40.16	8.4922
	R2404731-001L 50X	Sr (216.596 nm)	0.0337	0.98	591.7569
	R2404731-001L 50X	Ti (336.122 nm)	0.0200	3.15	3044.7038
	R2404731-001L 50X	Tl (190.794 nm)	0.0015 u	97.45	0.2844
	R2404731-001L 50X	V (292.401 nm)	0.0003	42.73	-28.9104
	R2404731-001L 50X	Y (360.074 nm)	1.05	0.11	513784.08
	R2404731-001L 50X	Y_R (360.074 nm)	1.05	0.11	512320.98
	R2404731-001L 50X	Zn (213.857 nm)	0.0019	0.61	120.3530
6/11/2024 05:14:25	R2404731-002 10X	Ag (328.068 nm)	-0.0003 u	42.07	-233.3804
	R2404731-002 10X	Al (237.312 nm)	1.1219	0.38	2785.4919
	R2404731-002 10X	As (188.980 nm)	0.0013 u	> 100.00	0.2585
	R2404731-002 10X	B (249.772 nm)	0.0040	2.44	133.8015
	R2404731-002 10X	Ba (230.424 nm)	0.0164	0.43	901.9568
	R2404731-002 10X	Be (313.107 nm)	0.0002	3.48	209.2308
	R2404731-002 10X	Ca (317.933 nm)	279.8432 o LR	0.63	9970879.8157

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404731-002 10X	Cd (214.439 nm)	0.0002	23.26	14.6964
	R2404731-002 10X	Co (230.786 nm)	0.0004	12.68	-2.7173
	R2404731-002 10X	Cr (267.716 nm)	0.0030	3.34	159.9447
	R2404731-002 10X	Cu (327.395 nm)	0.1008	0.46	4395.0629
	R2404731-002 10X	Fe (234.350 nm)	2.7593	0.50	50241.2634
	R2404731-002 10X	K (766.491 nm)	0.0468	67.86	-140.6294
	R2404731-002 10X	Mg (279.078 nm)	1.0929	0.32	3541.7407
	R2404731-002 10X	Mn (257.610 nm)	0.0622	0.49	20780.3699
	R2404731-002 10X	Mo (202.032 nm)	0.0009	50.38	21.0323
	R2404731-002 10X	Na (588.995 nm)	2.9109	0.10	26018.4424
	R2404731-002 10X	Ni (230.299 nm)	0.0033	2.06	64.4189
	R2404731-002 10X	Pb (220.353 nm)	0.0088	7.61	53.8542
	R2404731-002 10X	Sb (217.582 nm)	-0.0051 u	32.12	-2.9322
	R2404731-002 10X	Se (196.026 nm)	0.0001 u	> 100.00	4.8491
	R2404731-002 10X	Si (252.851 nm)	0.7474	0.50	2880.5078
	R2404731-002 10X	Sn (189.925 nm)	0.0011	65.24	5.8240
	R2404731-002 10X	Sr (216.596 nm)	0.1556	0.73	2738.2026
	R2404731-002 10X	Ti (336.122 nm)	0.1021	0.46	14905.3071
	R2404731-002 10X	Tl (190.794 nm)	-0.0003 u	> 100.00	-1.4709
	R2404731-002 10X	V (292.401 nm)	0.0014	8.60	13.9892
	R2404731-002 10X	Y (360.074 nm)	1.01	0.14	493937.54
	R2404731-002 10X	Y_R (360.074 nm)	1.01	0.14	492501.63
	R2404731-002 10X	Zn (213.857 nm)	0.0151	0.59	968.0704
6/11/2024 05:17:40	Continuing Calibration Verification2	Ag (328.068 nm)	0.5033	0.09	28297.7614
	Continuing Calibration Verification2	Al (237.312 nm)	9.6417	0.07	23846.1433
	Continuing Calibration Verification2	As (188.980 nm)	0.9749	0.32	1651.2488
	Continuing Calibration Verification2	B (249.772 nm)	2.3872	0.15	77521.2190
	Continuing Calibration Verification2	Ba (230.424 nm)	9.5220	0.61	518455.3162
	Continuing Calibration Verification2	Be (313.107 nm)	0.2390	0.30	262305.6596
	Continuing Calibration Verification2	Ca (317.933 nm)	26.0825	0.31	931811.9206
	Continuing Calibration Verification2	Cd (214.439 nm)	0.5086	0.32	28977.1776
	Continuing Calibration Verification2	Co (230.786 nm)	2.4766	0.57	44899.7424
	Continuing Calibration Verification2	Cr (267.716 nm)	0.5233	0.29	27205.9507
	Continuing Calibration Verification2	Cu (327.395 nm)	1.2076	0.38	52984.2440
	Continuing Calibration Verification2	Fe (234.350 nm)	5.0468	0.30	91892.2447
	Continuing Calibration Verification2	K (766.491 nm)	23.9727	0.16	26115.5971
	Continuing Calibration Verification2	Mg (279.078 nm)	25.6794	0.26	83888.3286
	Continuing Calibration Verification2	Mn (257.610 nm)	0.7436	0.29	248339.5386
	Continuing Calibration Verification2	Mo (202.032 nm)	2.7201	0.44	28406.3426
	Continuing Calibration Verification2	Na (588.995 nm)	25.3869	0.36	332105.7635
	Continuing Calibration Verification2	Ni (230.299 nm)	2.0736	0.24	24375.3525
	Continuing Calibration Verification2	Pb (220.353 nm)	0.5243	0.15	2744.9459
	Continuing Calibration Verification2	Sb (217.582 nm)	4.6318	0.28	8610.6026
	Continuing Calibration Verification2	Se (196.026 nm)	0.4732	0.64	349.7135
	Continuing Calibration Verification2	Si (252.851 nm)	9.7993	0.36	37371.4371
	Continuing Calibration Verification2	Sn (189.925 nm)	5.0033	0.15	12323.1084
	Continuing Calibration Verification2	Sr (216.596 nm)	2.4924	0.57	43864.1168
	Continuing Calibration Verification2	Ti (336.122 nm)	2.5034	0.15	361833.3701
	Continuing Calibration Verification2	Tl (190.794 nm)	0.9699	0.87	946.5639
	Continuing Calibration Verification2	V (292.401 nm)	2.5319	0.25	95947.9638
	Continuing Calibration Verification2	Y (360.074 nm)	1.03	0.28	505023.16
	Continuing Calibration Verification2	Y_R (360.074 nm)	1.03	0.28	503570.65
	Continuing Calibration Verification2	Zn (213.857 nm)	0.9870	0.43	63178.7696
6/11/2024 05:20:54	Continuing Calibration Blank2	Ag (328.068 nm)	-0.0003 u	11.23	-232.5836
	Continuing Calibration Blank2	Al (237.312 nm)	0.0044	45.82	23.1796
	Continuing Calibration Blank2	As (188.980 nm)	-0.0004 u	> 100.00	-2.6978
	Continuing Calibration Blank2	B (249.772 nm)	0.0014	10.13	52.0877

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank2	Ba (230.424 nm)	0.0008	2.78	52.9009
	Continuing Calibration Blank2	Be (313.107 nm)	0.0001	8.93	123.0649
	Continuing Calibration Blank2	Ca (317.933 nm)	0.0185	1.51	3402.3381
	Continuing Calibration Blank2	Cd (214.439 nm)	0.0002	9.10	12.0120
	Continuing Calibration Blank2	Co (230.786 nm)	0.0000 u	> 100.00	-8.8291
	Continuing Calibration Blank2	Cr (267.716 nm)	0.0001	37.53	10.3835
	Continuing Calibration Blank2	Cu (327.395 nm)	0.0007	18.27	2.5722
	Continuing Calibration Blank2	Fe (234.350 nm)	0.0070	16.45	127.3706
	Continuing Calibration Blank2	K (766.491 nm)	0.0950	23.14	-87.8222
	Continuing Calibration Blank2	Mg (279.078 nm)	0.0030	33.53	-20.0003
	Continuing Calibration Blank2	Mn (257.610 nm)	0.0001	15.77	62.7117
	Continuing Calibration Blank2	Mo (202.032 nm)	0.0040	31.30	53.6387
	Continuing Calibration Blank2	Na (588.995 nm)	0.0517	6.26	-12918.3571
	Continuing Calibration Blank2	Ni (230.299 nm)	0.0002 u	> 100.00	27.9745
	Continuing Calibration Blank2	Pb (220.353 nm)	0.0006	72.12	11.2631
	Continuing Calibration Blank2	Sb (217.582 nm)	0.0016	67.93	9.5756
	Continuing Calibration Blank2	Se (196.026 nm)	0.0015 u	> 100.00	5.9074
	Continuing Calibration Blank2	Si (252.851 nm)	0.0001 u	> 100.00	33.0103
	Continuing Calibration Blank2	Sn (189.925 nm)	0.0011	40.99	5.6839
	Continuing Calibration Blank2	Sr (216.596 nm)	0.0003	24.77	5.0235
	Continuing Calibration Blank2	Ti (336.122 nm)	0.0036	44.52	672.5864
	Continuing Calibration Blank2	Tl (190.794 nm)	0.0001 u	> 100.00	-1.0657
	Continuing Calibration Blank2	V (292.401 nm)	0.0000 u	> 100.00	-38.7257
	Continuing Calibration Blank2	Y (360.074 nm)	1.08	0.10	525628.75
	Continuing Calibration Blank2	Y_R (360.074 nm)	1.07	0.10	524151.05
	Continuing Calibration Blank2	Zn (213.857 nm)	0.0006	3.56	40.1688
6/11/2024 05:24:08	Contract Required Detection Limit	Ag (328.068 nm)	0.0082	0.45	249.9885
	Contract Required Detection Limit	Al (237.312 nm)	0.1911	0.51	484.6603
	Contract Required Detection Limit	As (188.980 nm)	0.0193	0.83	30.6504
	Contract Required Detection Limit	B (249.772 nm)	0.1860	0.14	6043.6991
	Contract Required Detection Limit	Ba (230.424 nm)	0.1912	0.25	10419.0115
	Contract Required Detection Limit	Be (313.107 nm)	0.0048	0.47	5330.5004
	Contract Required Detection Limit	Ca (317.933 nm)	1.0488	0.31	40101.8004
	Contract Required Detection Limit	Cd (214.439 nm)	0.0107	1.55	609.5167
	Contract Required Detection Limit	Co (230.786 nm)	0.0495	0.73	887.9615
	Contract Required Detection Limit	Cr (267.716 nm)	0.0097	1.32	507.8690
	Contract Required Detection Limit	Cu (327.395 nm)	0.0243	0.25	1041.1244
	Contract Required Detection Limit	Fe (234.350 nm)	0.1080	1.26	1965.7928
	Contract Required Detection Limit	K (766.491 nm)	0.9714	0.60	873.9437
	Contract Required Detection Limit	Mg (279.078 nm)	1.0095	0.38	3269.3363
	Contract Required Detection Limit	Mn (257.610 nm)	0.0139	0.43	4650.1089
	Contract Required Detection Limit	Mo (202.032 nm)	0.0273	1.59	296.6124
	Contract Required Detection Limit	Na (588.995 nm)	1.0340	0.39	458.0991
	Contract Required Detection Limit	Ni (230.299 nm)	0.0356	0.66	443.3793
	Contract Required Detection Limit	Pb (220.353 nm)	0.0108	2.13	64.4984
	Contract Required Detection Limit	Sb (217.582 nm)	0.0531	1.30	105.2543
	Contract Required Detection Limit	Se (196.026 nm)	0.0080 R 80%	15.49	10.5931 R
	Contract Required Detection Limit	Si (252.851 nm)	0.0484	2.68	216.9254
	Contract Required Detection Limit	Sn (189.925 nm)	0.4983	0.37	1230.0336
	Contract Required Detection Limit	Sr (216.596 nm)	0.0987	0.33	1736.7820
	Contract Required Detection Limit	Ti (336.122 nm)	0.0494	1.51	7286.7891
	Contract Required Detection Limit	Tl (190.794 nm)	0.0207	11.73	19.0187
	Contract Required Detection Limit	V (292.401 nm)	0.0491	0.08	1819.2080
	Contract Required Detection Limit	Y (360.074 nm)	1.07	0.51	525139.75
	Contract Required Detection Limit	Y_R (360.074 nm)	1.07	0.51	523641.59
	Contract Required Detection Limit	Zn (213.857 nm)	0.0171	0.63	1094.5160
6/11/2024 05:27:21	Interference Check Solution A	Ag (328.068 nm)	-0.0006 u	3.39	-248.5812

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Interference Check Solution A	Al (237.312 nm)	243.3756 o	0.21	601627.2300
	Interference Check Solution A	As (188.980 nm)	-0.0007 u	> 100.00	-3.2584
	Interference Check Solution A	B (249.772 nm)	0.0980	0.44	3189.0909
	Interference Check Solution A	Ba (230.424 nm)	-0.0005 u	20.22	-14.5232
	Interference Check Solution A	Be (313.107 nm)	0.0002	3.20	286.8128
	Interference Check Solution A	Ca (317.933 nm)	237.2465 o	0.36	8453566.1477
	Interference Check Solution A	Cd (214.439 nm)	-0.0006 u	11.82	-30.5885
	Interference Check Solution A	Co (230.786 nm)	-0.0001 u	> 100.00	-11.6083
	Interference Check Solution A	Cr (267.716 nm)	0.0037	1.71	195.8096
	Interference Check Solution A	Cu (327.395 nm)	0.0087	1.14	353.0731
	Interference Check Solution A	Fe (234.350 nm)	92.8119 o	0.40	1689923.7859
	Interference Check Solution A	K (766.491 nm)	0.0005 u	> 100.00	-191.4475
	Interference Check Solution A	Mg (279.078 nm)	262.5950 o	0.43	858107.8598
	Interference Check Solution A	Mn (257.610 nm)	0.0011	0.62	397.2391
	Interference Check Solution A	Mo (202.032 nm)	0.0009	21.83	21.4314
	Interference Check Solution A	Na (588.995 nm)	-0.0195 u	12.48	-13887.7350
	Interference Check Solution A	Ni (230.299 nm)	0.0031	24.94	62.1693
	Interference Check Solution A	Pb (220.353 nm)	0.0036	23.51	26.9609
	Interference Check Solution A	Sb (217.582 nm)	-0.0047 u	85.27	-2.1241
	Interference Check Solution A	Se (196.026 nm)	-0.0082 u	20.21	-1.2268
	Interference Check Solution A	Si (252.851 nm)	0.0369	3.01	173.4197
	Interference Check Solution A	Sn (189.925 nm)	0.0003	92.41	3.7049
	Interference Check Solution A	Sr (216.596 nm)	0.0111	1.90	194.5779
	Interference Check Solution A	Ti (336.122 nm)	0.0028	12.79	565.7234
	Interference Check Solution A	Tl (190.794 nm)	-0.0001 u	> 100.00	-1.3024
	Interference Check Solution A	V (292.401 nm)	0.0015	4.03	16.0618
	Interference Check Solution A	Y (360.074 nm)	0.95	0.25	464469.16
	Interference Check Solution A	Y_R (360.074 nm)	0.95	0.25	463088.16
	Interference Check Solution A	Zn (213.857 nm)	0.0134 K	0.46	858.3018 K
6/11/2024 05:30:35	Interference Check Solution AB	Ag (328.068 nm)	0.1968	0.06	10932.6642
	Interference Check Solution AB	Al (237.312 nm)	244.9112 o	0.18	605423.1785
	Interference Check Solution AB	As (188.980 nm)	0.0995	1.76	166.7763
	Interference Check Solution AB	B (249.772 nm)	0.0963	0.45	3132.0864
	Interference Check Solution AB	Ba (230.424 nm)	0.4905	0.21	26717.2763
	Interference Check Solution AB	Be (313.107 nm)	0.4864	0.26	533854.8530
	Interference Check Solution AB	Ca (317.933 nm)	238.1625 o	0.28	8486194.3068
	Interference Check Solution AB	Cd (214.439 nm)	0.9827	0.24	55988.1343
	Interference Check Solution AB	Co (230.786 nm)	0.4784	0.16	8665.5948
	Interference Check Solution AB	Cr (267.716 nm)	0.5240	0.19	27244.3973
	Interference Check Solution AB	Cu (327.395 nm)	0.5292	0.00	23203.1781
	Interference Check Solution AB	Fe (234.350 nm)	93.3097 o	0.26	1698989.2769
	Interference Check Solution AB	K (766.491 nm)	0.0073 u	> 100.00	-184.0359
	Interference Check Solution AB	Mg (279.078 nm)	263.7808 o	0.24	861983.1573
	Interference Check Solution AB	Mn (257.610 nm)	0.4944	0.24	165134.5110
	Interference Check Solution AB	Mo (202.032 nm)	0.0012	30.13	24.1284
	Interference Check Solution AB	Na (588.995 nm)	-0.0297 u	19.07	-14026.8756
	Interference Check Solution AB	Ni (230.299 nm)	0.9853	0.18	11595.2247
	Interference Check Solution AB	Pb (220.353 nm)	0.0528	0.79	283.6034
	Interference Check Solution AB	Sb (217.582 nm)	0.5737	0.14	1072.2980
	Interference Check Solution AB	Se (196.026 nm)	0.0405	11.38	34.2767
	Interference Check Solution AB	Si (252.851 nm)	0.0813	1.94	342.5712
	Interference Check Solution AB	Sn (189.925 nm)	0.0011 u	> 100.00	5.6667
	Interference Check Solution AB	Sr (216.596 nm)	0.0112	1.15	195.8143
	Interference Check Solution AB	Ti (336.122 nm)	0.0027	8.73	546.7499
	Interference Check Solution AB	Tl (190.794 nm)	0.0980	2.92	94.5365
	Interference Check Solution AB	V (292.401 nm)	0.5202	0.13	19681.4984
	Interference Check Solution AB	Y (360.074 nm)	0.95	0.37	465440.50

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Interference Check Solution AB	Y_R (360.074 nm)	0.95	0.37	464055.09
	Interference Check Solution AB	Zn (213.857 nm)	1.0213	0.13	65373.2714
6/11/2024 05:33:49	Continuing Calibration Verification2	Ag (328.068 nm)	0.5019	0.17	28218.6267
	Continuing Calibration Verification2	Al (237.312 nm)	9.6511	0.05	23869.4776
	Continuing Calibration Verification2	As (188.980 nm)	0.9668	0.50	1637.5894
	Continuing Calibration Verification2	B (249.772 nm)	2.3757	0.16	77146.2528
	Continuing Calibration Verification2	Ba (230.424 nm)	9.4621	0.69	515192.0618
	Continuing Calibration Verification2	Be (313.107 nm)	0.2382	0.34	261506.4646
	Continuing Calibration Verification2	Ca (317.933 nm)	25.9792	0.34	928131.6984
	Continuing Calibration Verification2	Cd (214.439 nm)	0.5068	0.33	28875.9754
	Continuing Calibration Verification2	Co (230.786 nm)	2.4668	0.32	44721.2990
	Continuing Calibration Verification2	Cr (267.716 nm)	0.5218	0.37	27129.9464
	Continuing Calibration Verification2	Cu (327.395 nm)	1.2059	0.26	52908.5855
	Continuing Calibration Verification2	Fe (234.350 nm)	5.0501	0.38	91952.3265
	Continuing Calibration Verification2	K (766.491 nm)	23.9852	0.04	26129.2439
	Continuing Calibration Verification2	Mg (279.078 nm)	25.6404	0.28	83760.9505
	Continuing Calibration Verification2	Mn (257.610 nm)	0.7413	0.35	247580.7406
	Continuing Calibration Verification2	Mo (202.032 nm)	2.7111	0.30	28312.6094
	Continuing Calibration Verification2	Na (588.995 nm)	25.3760	0.23	331957.4074
	Continuing Calibration Verification2	Ni (230.299 nm)	2.0659	0.28	24284.7036
	Continuing Calibration Verification2	Pb (220.353 nm)	0.5234	0.34	2740.5682
	Continuing Calibration Verification2	Sb (217.582 nm)	4.6211	0.06	8590.5648
	Continuing Calibration Verification2	Se (196.026 nm)	0.4653	0.94	343.9399
	Continuing Calibration Verification2	Si (252.851 nm)	9.7443	0.47	37161.7302
	Continuing Calibration Verification2	Sn (189.925 nm)	4.9933	0.33	12298.4420
	Continuing Calibration Verification2	Sr (216.596 nm)	2.4800	0.33	43646.3041
	Continuing Calibration Verification2	Ti (336.122 nm)	2.4965	0.18	360842.0621
	Continuing Calibration Verification2	Tl (190.794 nm)	0.9650	0.29	941.7273
	Continuing Calibration Verification2	V (292.401 nm)	2.5277	0.32	95790.0333
	Continuing Calibration Verification2	Y (360.074 nm)	1.04	0.21	507250.16
	Continuing Calibration Verification2	Y_R (360.074 nm)	1.04	0.21	505766.09
	Continuing Calibration Verification2	Zn (213.857 nm)	0.9825	0.16	62887.4860
6/11/2024 05:37:03	Continuing Calibration Blank2	Ag (328.068 nm)	-0.0005 u	10.68	-244.8931
	Continuing Calibration Blank2	Al (237.312 nm)	0.0047	49.65	23.9774
	Continuing Calibration Blank2	As (188.980 nm)	-0.0012 u	52.40	-4.1416
	Continuing Calibration Blank2	B (249.772 nm)	0.0018	15.48	62.9902
	Continuing Calibration Blank2	Ba (230.424 nm)	0.0008	9.51	53.8959
	Continuing Calibration Blank2	Be (313.107 nm)	0.0001	9.46	119.2806
	Continuing Calibration Blank2	Ca (317.933 nm)	0.0186	1.62	3403.7948
	Continuing Calibration Blank2	Cd (214.439 nm)	0.0002	56.52	12.6135
	Continuing Calibration Blank2	Co (230.786 nm)	0.0003	8.51	-4.3976
	Continuing Calibration Blank2	Cr (267.716 nm)	0.0002	14.71	17.3755
	Continuing Calibration Blank2	Cu (327.395 nm)	0.0007	18.40	0.9579
	Continuing Calibration Blank2	Fe (234.350 nm)	0.0073	17.74	132.0511
	Continuing Calibration Blank2	K (766.491 nm)	0.0760	37.27	-108.6014
	Continuing Calibration Blank2	Mg (279.078 nm)	0.0052	19.88	-12.7163
	Continuing Calibration Blank2	Mn (257.610 nm)	0.0001	5.18	66.7444
	Continuing Calibration Blank2	Mo (202.032 nm)	0.0039	23.13	52.2410
	Continuing Calibration Blank2	Na (588.995 nm)	0.0453	24.58	-13005.6256
	Continuing Calibration Blank2	Ni (230.299 nm)	0.0002 u	> 100.00	27.5261
	Continuing Calibration Blank2	Pb (220.353 nm)	0.0014	28.63	15.4661
	Continuing Calibration Blank2	Sb (217.582 nm)	0.0018 u	> 100.00	9.8595
	Continuing Calibration Blank2	Se (196.026 nm)	-0.0011 u	> 100.00	3.9850
	Continuing Calibration Blank2	Si (252.851 nm)	-0.0028 u	38.23	21.8463
	Continuing Calibration Blank2	Sn (189.925 nm)	0.0007	> 100.00	4.8392
	Continuing Calibration Blank2	Sr (216.596 nm)	0.0005	33.26	8.2359
	Continuing Calibration Blank2	Ti (336.122 nm)	0.0034	41.44	645.0775

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank2	Tl (190.794 nm)	0.0013	79.16	0.0820
	Continuing Calibration Blank2	V (292.401 nm)	0.0002	15.85	-32.3594
	Continuing Calibration Blank2	Y (360.074 nm)	1.08	0.15	525892.50
	Continuing Calibration Blank2	Y_R (360.074 nm)	1.08	0.15	524374.23
	Continuing Calibration Blank2	Zn (213.857 nm)	0.0006	9.61	36.2815
6/11/2024 05:40:18	PBT-439635	Ag (328.068 nm)	-0.0006 u	8.64	-247.8382
	PBT-439635	Al (237.312 nm)	0.0038	58.56	21.6269
	PBT-439635	As (188.980 nm)	-0.0011 u	82.19	-3.8181
	PBT-439635	B (249.772 nm)	0.0022	12.30	75.9239
	PBT-439635	Ba (230.424 nm)	0.0000 u	> 100.00	11.3043
	PBT-439635	Be (313.107 nm)	0.0001	0.21	106.3472
	PBT-439635	Ca (317.933 nm)	0.0241	1.43	3603.2196
	PBT-439635	Cd (214.439 nm)	0.0002	35.90	12.4549
	PBT-439635	Co (230.786 nm)	-0.0002 u	66.67	-12.8903
	PBT-439635	Cr (267.716 nm)	0.0006	11.03	37.8136
	PBT-439635	Cu (327.395 nm)	0.0005	61.81	-7.4209
	PBT-439635	Fe (234.350 nm)	0.0139	16.38	253.0595
	PBT-439635	K (766.491 nm)	0.0923	48.72	-90.7254
	PBT-439635	Mg (279.078 nm)	0.0025	45.03	-21.6958
	PBT-439635	Mn (257.610 nm)	0.0001	7.87	54.5576
	PBT-439635	Mo (202.032 nm)	0.0010	46.10	22.5250
	PBT-439635	Na (588.995 nm)	0.1523	0.90	-11548.7406
	PBT-439635	Ni (230.299 nm)	-0.0004 u	88.03	20.2850
	PBT-439635	Pb (220.353 nm)	0.0018	21.96	17.4843
	PBT-439635	Sb (217.582 nm)	0.0130	10.71	30.7266
	PBT-439635	Se (196.026 nm)	-0.0011 u	> 100.00	4.0103
	PBT-439635	Si (252.851 nm)	0.0115	6.56	76.5431
	PBT-439635	Sn (189.925 nm)	0.0001 u	> 100.00	3.3001
	PBT-439635	Sr (216.596 nm)	0.0003	73.82	4.4718
	PBT-439635	Ti (336.122 nm)	0.0015	53.50	376.8312
	PBT-439635	Tl (190.794 nm)	-0.0006 u	> 100.00	-1.8006
	PBT-439635	V (292.401 nm)	-0.0001 u	78.48	-45.5713
	PBT-439635	Y (360.074 nm)	1.07	0.43	520887.12
	PBT-439635	Y_R (360.074 nm)	1.06	0.43	519392.75
	PBT-439635	Zn (213.857 nm)	0.0000 u	> 100.00	2.6902
6/11/2024 05:43:34	LCST-439635	Ag (328.068 nm)	0.2529	0.18	14114.5754
	LCST-439635	Al (237.312 nm)	-0.0017 u	> 100.00	8.1776
	LCST-439635	As (188.980 nm)	0.9473	0.27	1604.5851
	LCST-439635	B (249.772 nm)	0.0017	3.97	61.7028
	LCST-439635	Ba (230.424 nm)	1.8803	0.39	102389.2945
	LCST-439635	Be (313.107 nm)	0.0001	3.07	97.4132
	LCST-439635	Ca (317.933 nm)	0.0248	0.99	3625.3645
	LCST-439635	Cd (214.439 nm)	0.5100	0.26	29057.5293
	LCST-439635	Co (230.786 nm)	-0.0015 u	13.97	-36.5293
	LCST-439635	Cr (267.716 nm)	0.5125	0.25	26645.1968
	LCST-439635	Cu (327.395 nm)	0.9757	0.43	42802.9870
	LCST-439635	Fe (234.350 nm)	0.0205	5.94	372.4573
	LCST-439635	K (766.491 nm)	0.0836	21.48	-100.3388
	LCST-439635	Mg (279.078 nm)	0.0020	85.06	-23.1242
	LCST-439635	Mn (257.610 nm)	0.0003	0.45	133.6896
	LCST-439635	Mo (202.032 nm)	0.0005	35.60	17.4995
	LCST-439635	Na (588.995 nm)	0.1475	4.23	-11613.5175
	LCST-439635	Ni (230.299 nm)	1.0348	0.39	12177.0178
	LCST-439635	Pb (220.353 nm)	0.5319	0.07	2784.9807
	LCST-439635	Sb (217.582 nm)	0.0090	7.01	23.3682
	LCST-439635	Se (196.026 nm)	0.9384	0.28	688.7783
	LCST-439635	Si (252.851 nm)	-0.0797 u	1.09	-271.1854

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	LCST-439635	Sn (189.925 nm)	-0.0001 u	> 100.00	2.7491
	LCST-439635	Sr (216.596 nm)	0.0003	19.29	5.0494
	LCST-439635	Ti (336.122 nm)	0.0007	61.10	257.7019
	LCST-439635	Tl (190.794 nm)	0.0005	53.20	-0.6854
	LCST-439635	V (292.401 nm)	-0.0001 u	> 100.00	-43.9524
	LCST-439635	Y (360.074 nm)	1.07	0.42	522521.69
	LCST-439635	Y_R (360.074 nm)	1.07	0.42	521020.02
	LCST-439635	Zn (213.857 nm)	0.9734	0.40	62308.0893
6/11/2024 05:46:50	RQ2406375-01	Ag (328.068 nm)	-0.0005 u	21.43	-240.3130
	RQ2406375-01	Al (237.312 nm)	0.0345	7.39	97.6109
	RQ2406375-01	As (188.980 nm)	0.0002 u	> 100.00	-1.6248
	RQ2406375-01	B (249.772 nm)	0.0200	0.33	655.1854
	RQ2406375-01	Ba (230.424 nm)	0.0006	5.18	44.8949
	RQ2406375-01	Be (313.107 nm)	0.0001	18.20	111.0917
	RQ2406375-01	Ca (317.933 nm)	0.1709	0.51	8830.3142
	RQ2406375-01	Cd (214.439 nm)	0.0003	15.22	17.1346
	RQ2406375-01	Co (230.786 nm)	-0.0002 u	> 100.00	-13.1009
	RQ2406375-01	Cr (267.716 nm)	0.0008	10.91	46.6539
	RQ2406375-01	Cu (327.395 nm)	0.0005	24.20	-4.5534
	RQ2406375-01	Fe (234.350 nm)	0.0248	3.81	451.7675
	RQ2406375-01	K (766.491 nm)	0.0864	7.21	-97.2471
	RQ2406375-01	Mg (279.078 nm)	0.0413	1.97	105.0728
	RQ2406375-01	Mn (257.610 nm)	0.0002	6.14	93.7207
	RQ2406375-01	Mo (202.032 nm)	0.0002	38.27	14.3626
	RQ2406375-01	Na (588.995 nm)	1.7171	0.08	9761.2082
	RQ2406375-01	Ni (230.299 nm)	-0.0007 u	24.68	17.2585
	RQ2406375-01	Pb (220.353 nm)	0.0008	33.74	12.3459
	RQ2406375-01	Sb (217.582 nm)	0.0076	22.95	20.7609
	RQ2406375-01	Se (196.026 nm)	0.0035 u	> 100.00	7.3030
	RQ2406375-01	Si (252.851 nm)	0.3505	0.71	1368.2172
	RQ2406375-01	Sn (189.925 nm)	0.0009	67.16	5.2956
	RQ2406375-01	Sr (216.596 nm)	0.0009	35.99	14.9121
	RQ2406375-01	Ti (336.122 nm)	0.0009	31.24	278.5015
	RQ2406375-01	Tl (190.794 nm)	0.0009 u	> 100.00	-0.3393
	RQ2406375-01	V (292.401 nm)	0.0000 u	> 100.00	-41.1463
	RQ2406375-01	Y (360.074 nm)	1.07	0.26	522009.64
	RQ2406375-01	Y_R (360.074 nm)	1.07	0.26	520513.74
	RQ2406375-01	Zn (213.857 nm)	0.0014	0.47	92.1810
6/11/2024 05:50:05	R2404768-001	Ag (328.068 nm)	-0.0006 u	16.29	-250.4734
	R2404768-001	Al (237.312 nm)	0.0115	12.26	40.8255
	R2404768-001	As (188.980 nm)	-0.0007 u	> 100.00	-3.2382
	R2404768-001	B (249.772 nm)	6.7464	0.28	219070.7471
	R2404768-001	Ba (230.424 nm)	0.0092	0.64	509.7401
	R2404768-001	Be (313.107 nm)	0.0001	18.72	102.2395
	R2404768-001	Ca (317.933 nm)	0.1743	0.35	8953.2134
	R2404768-001	Cd (214.439 nm)	0.0003	8.38	21.4057
	R2404768-001	Co (230.786 nm)	-0.0001 u	> 100.00	-11.5457
	R2404768-001	Cr (267.716 nm)	0.0006	8.80	36.5319
	R2404768-001	Cu (327.395 nm)	0.0006	13.27	-0.3056
	R2404768-001	Fe (234.350 nm)	0.0109	2.28	197.3250
	R2404768-001	K (766.491 nm)	4.8480	0.28	5128.1105
	R2404768-001	Mg (279.078 nm)	0.0405	2.45	102.5938
	R2404768-001	Mn (257.610 nm)	0.0002	6.21	92.1135
	R2404768-001	Mo (202.032 nm)	0.0001 u	> 100.00	13.5132
	R2404768-001	Na (588.995 nm)	22.4897	0.10	292650.7734
	R2404768-001	Ni (230.299 nm)	-0.0005 u	> 100.00	18.7982
	R2404768-001	Pb (220.353 nm)	0.0006	90.36	10.8779

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404768-001	Sb (217.582 nm)	0.0067	14.25	18.9662
	R2404768-001	Se (196.026 nm)	0.0027	52.51	6.7411
	R2404768-001	Si (252.851 nm)	0.1315	0.38	533.8442
	R2404768-001	Sn (189.925 nm)	0.0003 u	> 100.00	3.7983
	R2404768-001	Sr (216.596 nm)	0.0007	19.94	12.1436
	R2404768-001	Ti (336.122 nm)	0.0003	58.29	205.8030
	R2404768-001	Tl (190.794 nm)	0.0003 u	> 100.00	-0.9383
	R2404768-001	V (292.401 nm)	-0.0001 u	51.95	-45.8752
	R2404768-001	Y (360.074 nm)	1.05	0.27	514858.87
	R2404768-001	Y_R (360.074 nm)	1.05	0.26	513351.31
	R2404768-001	Zn (213.857 nm)	0.0009	7.02	56.0216
6/11/2024 05:53:21	R2404768-001S	Ag (328.068 nm)	0.2495	0.07	13919.1679
	R2404768-001S	Al (237.312 nm)	0.0064	38.19	27.9843
	R2404768-001S	As (188.980 nm)	0.9648	0.58	1634.1965
	R2404768-001S	B (249.772 nm)	6.8301	0.21	221786.1500
	R2404768-001S	Ba (230.424 nm)	1.8980	0.47	103353.0056
	R2404768-001S	Be (313.107 nm)	0.0001	4.18	94.6869
	R2404768-001S	Ca (317.933 nm)	0.1718	0.48	8864.3546
	R2404768-001S	Cd (214.439 nm)	0.5200	0.39	29626.6212
	R2404768-001S	Co (230.786 nm)	-0.0016 u	8.47	-39.1365
	R2404768-001S	Cr (267.716 nm)	0.5170	0.36	26880.2980
	R2404768-001S	Cu (327.395 nm)	0.9771	0.21	42866.3376
	R2404768-001S	Fe (234.350 nm)	0.0206	1.72	375.0763
	R2404768-001S	K (766.491 nm)	4.9514	0.40	5241.5704
	R2404768-001S	Mg (279.078 nm)	0.0408	0.29	103.7044
	R2404768-001S	Mn (257.610 nm)	0.0002	7.81	87.5784
	R2404768-001S	Mo (202.032 nm)	0.0003 u	> 100.00	14.6684
	R2404768-001S	Na (588.995 nm)	22.9305	0.28	298652.9495
	R2404768-001S	Ni (230.299 nm)	1.0414	0.22	12254.7147
	R2404768-001S	Pb (220.353 nm)	0.5323	0.19	2786.9322
	R2404768-001S	Sb (217.582 nm)	0.0028	24.58	11.8298
	R2404768-001S	Se (196.026 nm)	0.9422	0.50	691.5966
	R2404768-001S	Si (252.851 nm)	0.0266	7.12	133.8581
	R2404768-001S	Sn (189.925 nm)	0.0005	> 100.00	4.1692
	R2404768-001S	Sr (216.596 nm)	0.0008	14.48	12.7098
	R2404768-001S	Ti (336.122 nm)	0.0003	56.53	199.3532
	R2404768-001S	Tl (190.794 nm)	0.0005 u	> 100.00	-0.6748
	R2404768-001S	V (292.401 nm)	0.0000 u	> 100.00	-39.0809
	R2404768-001S	Y (360.074 nm)	1.05	0.27	515171.21
	R2404768-001S	Y_R (360.074 nm)	1.05	0.27	513636.38
	R2404768-001S	Zn (213.857 nm)	1.0063	0.34	64412.8104
6/11/2024 05:56:36	R2404768-001SD	Ag (328.068 nm)	0.2502	0.19	13960.2698
	R2404768-001SD	Al (237.312 nm)	0.0045	21.75	23.4598
	R2404768-001SD	As (188.980 nm)	0.9721	0.29	1646.4955
	R2404768-001SD	B (249.772 nm)	6.7953	0.20	220656.9361
	R2404768-001SD	Ba (230.424 nm)	1.9116	0.18	104092.8067
	R2404768-001SD	Be (313.107 nm)	0.0001	9.16	107.2607
	R2404768-001SD	Ca (317.933 nm)	0.1709	0.37	8832.1473
	R2404768-001SD	Cd (214.439 nm)	0.5220	0.32	29740.3880
	R2404768-001SD	Co (230.786 nm)	-0.0015 u	13.60	-37.1558
	R2404768-001SD	Cr (267.716 nm)	0.5190	0.27	26984.3251
	R2404768-001SD	Cu (327.395 nm)	0.9827	0.10	43110.9425
	R2404768-001SD	Fe (234.350 nm)	0.0196	0.86	356.7603
	R2404768-001SD	K (766.491 nm)	4.9311	1.18	5219.3236
	R2404768-001SD	Mg (279.078 nm)	0.0382	3.79	95.0438
	R2404768-001SD	Mn (257.610 nm)	0.0002	5.02	86.5901
	R2404768-001SD	Mo (202.032 nm)	0.0001 u	> 100.00	13.0313

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404768-001SD	Na (588.995 nm)	22.7419	0.24	296085.6973
	R2404768-001SD	Ni (230.299 nm)	1.0472	0.26	12321.7224
	R2404768-001SD	Pb (220.353 nm)	0.5362	0.03	2807.4403
	R2404768-001SD	Sb (217.582 nm)	0.0006 u	> 100.00	7.7244
	R2404768-001SD	Se (196.026 nm)	0.9517	0.17	698.5230
	R2404768-001SD	Si (252.851 nm)	0.0315	0.53	152.5217
	R2404768-001SD	Sn (189.925 nm)	0.0008 u	> 100.00	5.0226
	R2404768-001SD	Sr (216.596 nm)	0.0009	29.07	15.6781
	R2404768-001SD	Ti (336.122 nm)	0.0002	82.53	187.1009
	R2404768-001SD	Tl (190.794 nm)	-0.0002 u	> 100.00	-1.4420
	R2404768-001SD	V (292.401 nm)	0.0000 u	> 100.00	-40.0124
	R2404768-001SD	Y (360.074 nm)	1.05	0.35	514881.37
	R2404768-001SD	Y_R (360.074 nm)	1.05	0.36	513362.64
	R2404768-001SD	Zn (213.857 nm)	1.0129	0.12	64836.2729
6/11/2024 05:59:52	R2404768-001A	Ag (328.068 nm)	0.2404	0.04	13402.0046
	R2404768-001A	Al (237.312 nm)	0.0071	2.07	29.8721
	R2404768-001A	As (188.980 nm)	0.9341	0.07	1582.0989
	R2404768-001A	B (249.772 nm)	6.6162	0.21	214842.8961
	R2404768-001A	Ba (230.424 nm)	1.8328	0.29	99801.2227
	R2404768-001A	Be (313.107 nm)	0.0001	1.25	106.4758
	R2404768-001A	Ca (317.933 nm)	0.3686	0.28	15873.5125
	R2404768-001A	Cd (214.439 nm)	0.5023	0.27	28615.9175
	R2404768-001A	Co (230.786 nm)	-0.0015 u	17.26	-37.0455
	R2404768-001A	Cr (267.716 nm)	0.4978	0.31	25883.0184
	R2404768-001A	Cu (327.395 nm)	0.9424	0.19	41341.6425
	R2404768-001A	Fe (234.350 nm)	0.0202	0.82	367.2561
	R2404768-001A	K (766.491 nm)	4.7689	0.05	5041.3122
	R2404768-001A	Mg (279.078 nm)	0.0416	1.17	106.2475
	R2404768-001A	Mn (257.610 nm)	0.0003	3.04	121.9212
	R2404768-001A	Mo (202.032 nm)	0.0002 u	> 100.00	13.5741
	R2404768-001A	Na (588.995 nm)	22.0643	0.20	286857.8942
	R2404768-001A	Ni (230.299 nm)	1.0045	0.39	11821.2110
	R2404768-001A	Pb (220.353 nm)	0.5158	0.31	2700.5673
	R2404768-001A	Sb (217.582 nm)	0.0008 u	> 100.00	8.1590
	R2404768-001A	Se (196.026 nm)	0.9166	0.85	672.8796
	R2404768-001A	Si (252.851 nm)	0.0416	6.10	191.2727
	R2404768-001A	Sn (189.925 nm)	0.0007	33.14	4.7665
	R2404768-001A	Sr (216.596 nm)	0.0009	33.28	15.2764
	R2404768-001A	Ti (336.122 nm)	0.0003	68.81	193.1974
	R2404768-001A	Tl (190.794 nm)	-0.0011 u	> 100.00	-2.2754
	R2404768-001A	V (292.401 nm)	0.0002 u	> 100.00	-34.5332
	R2404768-001A	Y (360.074 nm)	1.05	0.35	515431.58
	R2404768-001A	Y_R (360.074 nm)	1.05	0.35	513906.80
	R2404768-001A	Zn (213.857 nm)	0.9747	0.28	62390.7887
6/11/2024 06:03:08	R2404768-001L 5X	Ag (328.068 nm)	-0.0006 u	16.27	-250.6247
	R2404768-001L 5X	Al (237.312 nm)	0.0040	24.45	22.1272
	R2404768-001L 5X	As (188.980 nm)	0.0008 u	> 100.00	-0.5882
	R2404768-001L 5X	B (249.772 nm)	1.3691	0.29	44463.1681
	R2404768-001L 5X	Ba (230.424 nm)	0.0018	1.98	111.6153
	R2404768-001L 5X	Be (313.107 nm)	0.0001	10.83	94.0779
	R2404768-001L 5X	Ca (317.933 nm)	0.0574	0.42	4786.4769
	R2404768-001L 5X	Cd (214.439 nm)	0.0002	21.31	13.8111
	R2404768-001L 5X	Co (230.786 nm)	0.0001 u	> 100.00	-7.1412
	R2404768-001L 5X	Cr (267.716 nm)	0.0002	34.45	18.4529
	R2404768-001L 5X	Cu (327.395 nm)	0.0004	45.23	-10.3902
	R2404768-001L 5X	Fe (234.350 nm)	0.0029	3.36	53.2269
	R2404768-001L 5X	K (766.491 nm)	1.0183	4.04	925.4473

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2404768-001L 5X	Mg (279.078 nm)	0.0099	15.78	2.5312
	R2404768-001L 5X	Mn (257.610 nm)	0.0001	33.16	37.2480
	R2404768-001L 5X	Mo (202.032 nm)	-0.0001 u	41.28	11.2170
	R2404768-001L 5X	Na (588.995 nm)	4.5915	0.05	48906.1942
	R2404768-001L 5X	Ni (230.299 nm)	-0.0004 u	67.95	20.8051
	R2404768-001L 5X	Pb (220.353 nm)	0.0011	25.66	13.4859
	R2404768-001L 5X	Sb (217.582 nm)	-0.0024 u	50.03	2.1428
	R2404768-001L 5X	Se (196.026 nm)	0.0045	38.22	8.0694
	R2404768-001L 5X	Si (252.851 nm)	0.0405	0.21	187.0029
	R2404768-001L 5X	Sn (189.925 nm)	0.0005 u	> 100.00	4.1348
	R2404768-001L 5X	Sr (216.596 nm)	0.0004	37.30	6.5912
	R2404768-001L 5X	Ti (336.122 nm)	0.0001 u	> 100.00	163.5237
	R2404768-001L 5X	Tl (190.794 nm)	-0.0009 u	50.86	-2.0790
	R2404768-001L 5X	V (292.401 nm)	-0.0001 u	> 100.00	-44.4301
	R2404768-001L 5X	Y (360.074 nm)	1.08	0.10	525503.97
	R2404768-001L 5X	Y_R (360.074 nm)	1.07	0.10	523963.38
	R2404768-001L 5X	Zn (213.857 nm)	0.0001	6.25	9.4961
6/11/2024 06:06:23	Continuing Calibration Verification2	Ag (328.068 nm)	0.5024	0.08	28249.2856
	Continuing Calibration Verification2	Al (237.312 nm)	9.6214	0.07	23796.0438
	Continuing Calibration Verification2	As (188.980 nm)	0.9691	0.20	1641.5093
	Continuing Calibration Verification2	B (249.772 nm)	2.3831	0.07	77386.6446
	Continuing Calibration Verification2	Ba (230.424 nm)	9.4782	0.24	516067.0945
	Continuing Calibration Verification2	Be (313.107 nm)	0.2379	0.22	261131.6855
	Continuing Calibration Verification2	Ca (317.933 nm)	25.9345	0.19	926540.5061
	Continuing Calibration Verification2	Cd (214.439 nm)	0.5068	0.27	28873.3173
	Continuing Calibration Verification2	Co (230.786 nm)	2.4656	0.13	44700.1146
	Continuing Calibration Verification2	Cr (267.716 nm)	0.5226	0.24	27173.0517
	Continuing Calibration Verification2	Cu (327.395 nm)	1.2023	0.40	52749.3067
	Continuing Calibration Verification2	Fe (234.350 nm)	5.0210	0.22	91421.5846
	Continuing Calibration Verification2	K (766.491 nm)	23.9460	0.29	26086.2380
	Continuing Calibration Verification2	Mg (279.078 nm)	25.6120	0.12	83667.8914
	Continuing Calibration Verification2	Mn (257.610 nm)	0.7412	0.22	247546.5938
	Continuing Calibration Verification2	Mo (202.032 nm)	2.7129	0.28	28330.6047
	Continuing Calibration Verification2	Na (588.995 nm)	25.4024	0.25	332316.5254
	Continuing Calibration Verification2	Ni (230.299 nm)	2.0668	0.23	24294.7467
	Continuing Calibration Verification2	Pb (220.353 nm)	0.5214	0.05	2729.8090
	Continuing Calibration Verification2	Sb (217.582 nm)	4.6249	0.11	8597.6072
	Continuing Calibration Verification2	Se (196.026 nm)	0.4741	0.43	350.3361
	Continuing Calibration Verification2	Si (252.851 nm)	9.7439	0.33	37160.4164
	Continuing Calibration Verification2	Sn (189.925 nm)	4.9901	0.08	12290.4560
	Continuing Calibration Verification2	Sr (216.596 nm)	2.4859	0.29	43749.5431
	Continuing Calibration Verification2	Ti (336.122 nm)	2.4949	0.15	360607.4083
	Continuing Calibration Verification2	Tl (190.794 nm)	0.9679	0.24	944.5720
	Continuing Calibration Verification2	V (292.401 nm)	2.5299	0.20	95875.1110
	Continuing Calibration Verification2	Y (360.074 nm)	1.04	0.48	507031.26
	Continuing Calibration Verification2	Y_R (360.074 nm)	1.04	0.48	505529.44
	Continuing Calibration Verification2	Zn (213.857 nm)	0.9831	0.26	62925.6781
6/11/2024 06:09:37	Continuing Calibration Blank2	Ag (328.068 nm)	-0.0006 u	17.57	-247.3209
	Continuing Calibration Blank2	Al (237.312 nm)	0.0041	33.48	22.4972
	Continuing Calibration Blank2	As (188.980 nm)	-0.0008 u	> 100.00	-3.3574
	Continuing Calibration Blank2	B (249.772 nm)	0.0038	8.74	127.6025
	Continuing Calibration Blank2	Ba (230.424 nm)	0.0008	7.39	56.2546
	Continuing Calibration Blank2	Be (313.107 nm)	0.0001	5.03	128.1376
	Continuing Calibration Blank2	Ca (317.933 nm)	0.0180	2.28	3384.7639
	Continuing Calibration Blank2	Cd (214.439 nm)	0.0001	13.25	8.3739
	Continuing Calibration Blank2	Co (230.786 nm)	0.0002 u	> 100.00	-5.2765
	Continuing Calibration Blank2	Cr (267.716 nm)	0.0002	11.55	15.3384

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank2	Cu (327.395 nm)	0.0006	17.26	-2.6450
	Continuing Calibration Blank2	Fe (234.350 nm)	0.0063	12.14	114.7448
	Continuing Calibration Blank2	K (766.491 nm)	0.0779	29.48	-106.5675
	Continuing Calibration Blank2	Mg (279.078 nm)	0.0028	19.79	-20.7063
	Continuing Calibration Blank2	Mn (257.610 nm)	0.0001	8.66	68.2807
	Continuing Calibration Blank2	Mo (202.032 nm)	0.0043	28.26	57.2020
	Continuing Calibration Blank2	Na (588.995 nm)	0.0404	13.72	-13072.4731
	Continuing Calibration Blank2	Ni (230.299 nm)	0.0003	65.38	28.3107
	Continuing Calibration Blank2	Pb (220.353 nm)	0.0008	33.95	11.9909
	Continuing Calibration Blank2	Sb (217.582 nm)	0.0035	16.14	13.1260
	Continuing Calibration Blank2	Se (196.026 nm)	0.0022	12.88	6.3740
	Continuing Calibration Blank2	Si (252.851 nm)	-0.0039 u	6.14	17.6128
	Continuing Calibration Blank2	Sn (189.925 nm)	0.0011	65.71	5.8115
	Continuing Calibration Blank2	Sr (216.596 nm)	0.0004	51.64	5.8336
	Continuing Calibration Blank2	Ti (336.122 nm)	0.0037	43.00	684.1664
	Continuing Calibration Blank2	Tl (190.794 nm)	0.0025	49.73	1.1980
	Continuing Calibration Blank2	V (292.401 nm)	-0.0001 u	> 100.00	-42.5914
	Continuing Calibration Blank2	Y (360.074 nm)	1.07	0.16	525063.79
	Continuing Calibration Blank2	Y_R (360.074 nm)	1.07	0.16	523515.48
	Continuing Calibration Blank2	Zn (213.857 nm)	0.0006	3.83	39.0833
6/11/2024 06:12:50	Contract Required Detection Limit	Ag (328.068 nm)	0.0081	0.84	246.6629
	Contract Required Detection Limit	Al (237.312 nm)	0.1902	0.76	482.5267
	Contract Required Detection Limit	As (188.980 nm)	0.0197	2.85	31.3289
	Contract Required Detection Limit	B (249.772 nm)	0.1878	0.03	6104.0109
	Contract Required Detection Limit	Ba (230.424 nm)	0.1912	0.33	10422.6363
	Contract Required Detection Limit	Be (313.107 nm)	0.0048	0.28	5336.7823
	Contract Required Detection Limit	Ca (317.933 nm)	1.0497	0.28	40132.0645
	Contract Required Detection Limit	Cd (214.439 nm)	0.0106	0.65	606.7381
	Contract Required Detection Limit	Co (230.786 nm)	0.0496	0.59	889.4575
	Contract Required Detection Limit	Cr (267.716 nm)	0.0096	1.17	503.1525
	Contract Required Detection Limit	Cu (327.395 nm)	0.0242	0.80	1035.0670
	Contract Required Detection Limit	Fe (234.350 nm)	0.1072	1.04	1951.6553
	Contract Required Detection Limit	K (766.491 nm)	0.9563	3.71	857.4178
	Contract Required Detection Limit	Mg (279.078 nm)	1.0139	0.29	3283.4244
	Contract Required Detection Limit	Mn (257.610 nm)	0.0139	0.49	4650.6993
	Contract Required Detection Limit	Mo (202.032 nm)	0.0272	1.95	296.0079
	Contract Required Detection Limit	Na (588.995 nm)	1.0214	0.49	286.5473
	Contract Required Detection Limit	Ni (230.299 nm)	0.0356	1.07	443.2681
	Contract Required Detection Limit	Pb (220.353 nm)	0.0114	6.16	67.6521
	Contract Required Detection Limit	Sb (217.582 nm)	0.0547	2.67	108.1069
	Contract Required Detection Limit	Se (196.026 nm)	0.0097	26.28	11.8137
	Contract Required Detection Limit	Si (252.851 nm)	0.0457	2.14	206.7711
	Contract Required Detection Limit	Sn (189.925 nm)	0.4975	0.66	1228.0942
	Contract Required Detection Limit	Sr (216.596 nm)	0.0989	0.34	1740.0797
	Contract Required Detection Limit	Ti (336.122 nm)	0.0494	1.54	7293.5360
	Contract Required Detection Limit	Tl (190.794 nm)	0.0205	2.79	18.8363
	Contract Required Detection Limit	V (292.401 nm)	0.0495	0.44	1837.6219
	Contract Required Detection Limit	Y (360.074 nm)	1.08	0.37	525415.63
	Contract Required Detection Limit	Y_R (360.074 nm)	1.07	0.37	523861.20
	Contract Required Detection Limit	Zn (213.857 nm)	0.0172	0.14	1098.8124
6/11/2024 06:16:04	Interference Check Solution A	Ag (328.068 nm)	-0.0006 u	33.48	-248.2542
	Interference Check Solution A	Al (237.312 nm)	243.3812 o	0.16	601641.1794
	Interference Check Solution A	As (188.980 nm)	-0.0002 u	> 100.00	-2.2855
	Interference Check Solution A	B (249.772 nm)	0.1002	0.50	3260.4559
	Interference Check Solution A	Ba (230.424 nm)	-0.0005 u	17.14	-16.1147
	Interference Check Solution A	Be (313.107 nm)	0.0002	4.47	289.3814
	Interference Check Solution A	Ca (317.933 nm)	236.6963 o	0.32	8433966.4722

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Interference Check Solution A	Cd (214.439 nm)	-0.0005 u	17.93	-27.0713
	Interference Check Solution A	Co (230.786 nm)	-0.0001 u	> 100.00	-11.2094
	Interference Check Solution A	Cr (267.716 nm)	0.0037	2.09	199.2120
	Interference Check Solution A	Cu (327.395 nm)	0.0086	2.35	348.4267
	Interference Check Solution A	Fe (234.350 nm)	92.6193 o	0.31	1686418.0185
	Interference Check Solution A	K (766.491 nm)	0.0429	85.79	-144.9816
	Interference Check Solution A	Mg (279.078 nm)	262.2506 o	0.23	856982.4042
	Interference Check Solution A	Mn (257.610 nm)	0.0011	0.32	399.9532
	Interference Check Solution A	Mo (202.032 nm)	0.0014	26.80	27.0117
	Interference Check Solution A	Na (588.995 nm)	-0.0279 u	9.49	-14002.3378
	Interference Check Solution A	Ni (230.299 nm)	0.0027	14.03	56.6302
	Interference Check Solution A	Pb (220.353 nm)	0.0034	35.83	25.8159
	Interference Check Solution A	Sb (217.582 nm)	-0.0046 u	66.13	-1.8638
	Interference Check Solution A	Se (196.026 nm)	-0.0017 u	> 100.00	3.5090
	Interference Check Solution A	Si (252.851 nm)	0.0347	2.04	164.7148
	Interference Check Solution A	Sn (189.925 nm)	0.0016	56.32	6.9985
	Interference Check Solution A	Sr (216.596 nm)	0.0113	2.09	198.0356
	Interference Check Solution A	Ti (336.122 nm)	0.0030	14.17	593.1411
	Interference Check Solution A	Tl (190.794 nm)	0.0037	9.45	2.4445
	Interference Check Solution A	V (292.401 nm)	0.0014	18.60	10.6733
	Interference Check Solution A	Y (360.074 nm)	0.95	0.41	466095.22
	Interference Check Solution A	Y_R (360.074 nm)	0.95	0.41	464694.91
	Interference Check Solution A	Zn (213.857 nm)	0.0134 K	0.78	856.4255 K
6/11/2024 06:19:18	Interference Check Solution AB	Ag (328.068 nm)	0.1966	0.17	10923.6179
	Interference Check Solution AB	Al (237.312 nm)	244.3839 o	0.13	604119.8948
	Interference Check Solution AB	As (188.980 nm)	0.0995	1.73	166.7351
	Interference Check Solution AB	B (249.772 nm)	0.0984	0.29	3200.4415
	Interference Check Solution AB	Ba (230.424 nm)	0.4905	0.26	26718.0304
	Interference Check Solution AB	Be (313.107 nm)	0.4858	0.31	533228.0569
	Interference Check Solution AB	Ca (317.933 nm)	238.4512 o	0.30	8496478.4207
	Interference Check Solution AB	Cd (214.439 nm)	0.9833	0.37	56023.2244
	Interference Check Solution AB	Co (230.786 nm)	0.4785	0.29	8667.7267
	Interference Check Solution AB	Cr (267.716 nm)	0.5247	0.30	27280.5612
	Interference Check Solution AB	Cu (327.395 nm)	0.5282	0.13	23158.3339
	Interference Check Solution AB	Fe (234.350 nm)	93.3261 o	0.28	1699286.3857
	Interference Check Solution AB	K (766.491 nm)	-0.0088 u	> 100.00	-201.6477
	Interference Check Solution AB	Mg (279.078 nm)	264.2313 o	0.28	863455.2367
	Interference Check Solution AB	Mn (257.610 nm)	0.4945	0.26	165170.3201
	Interference Check Solution AB	Mo (202.032 nm)	0.0012	35.04	24.8599
	Interference Check Solution AB	Na (588.995 nm)	-0.0498 u	9.93	-14300.3993
	Interference Check Solution AB	Ni (230.299 nm)	0.9861	0.26	11605.3002
	Interference Check Solution AB	Pb (220.353 nm)	0.0532	1.93	285.5586
	Interference Check Solution AB	Sb (217.582 nm)	0.5733	0.33	1071.4565
	Interference Check Solution AB	Se (196.026 nm)	0.0493	2.99	40.7089
	Interference Check Solution AB	Si (252.851 nm)	0.0795	1.92	335.5548
	Interference Check Solution AB	Sn (189.925 nm)	0.0008 u	> 100.00	5.0905
	Interference Check Solution AB	Sr (216.596 nm)	0.0114	0.96	199.1774
	Interference Check Solution AB	Ti (336.122 nm)	0.0026	9.16	530.4224
	Interference Check Solution AB	Tl (190.794 nm)	0.0989	2.66	95.4838
	Interference Check Solution AB	V (292.401 nm)	0.5206	0.26	19697.0068
	Interference Check Solution AB	Y (360.074 nm)	0.95	0.21	464829.09
	Interference Check Solution AB	Y_R (360.074 nm)	0.95	0.21	463409.32
	Interference Check Solution AB	Zn (213.857 nm)	1.0209	0.20	65347.4930
6/11/2024 06:22:32	Continuing Calibration Verification2	Ag (328.068 nm)	0.5021	0.16	28231.1283
	Continuing Calibration Verification2	Al (237.312 nm)	9.6220	0.07	23797.3786
	Continuing Calibration Verification2	As (188.980 nm)	0.9652	0.12	1634.8375
	Continuing Calibration Verification2	B (249.772 nm)	2.3736	0.24	77079.5708

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification2	Ba (230.424 nm)	9.4584	0.61	514992.8046
	Continuing Calibration Verification2	Be (313.107 nm)	0.2376	0.23	260828.4880
	Continuing Calibration Verification2	Ca (317.933 nm)	26.0071	0.27	929128.6348
	Continuing Calibration Verification2	Cd (214.439 nm)	0.5068	0.27	28872.6215
	Continuing Calibration Verification2	Co (230.786 nm)	2.4552	0.26	44512.5928
	Continuing Calibration Verification2	Cr (267.716 nm)	0.5225	0.28	27167.7902
	Continuing Calibration Verification2	Cu (327.395 nm)	1.1952	0.62	52437.5684
	Continuing Calibration Verification2	Fe (234.350 nm)	5.0480	0.25	91914.5881
	Continuing Calibration Verification2	K (766.491 nm)	23.9809	0.21	26124.5884
	Continuing Calibration Verification2	Mg (279.078 nm)	25.6534	0.19	83803.4703
	Continuing Calibration Verification2	Mn (257.610 nm)	0.7409	0.23	247452.7390
	Continuing Calibration Verification2	Mo (202.032 nm)	2.7079	0.40	28278.6426
	Continuing Calibration Verification2	Na (588.995 nm)	25.3402	0.18	331469.7083
	Continuing Calibration Verification2	Ni (230.299 nm)	2.0622	0.22	24241.4693
	Continuing Calibration Verification2	Pb (220.353 nm)	0.5232	0.31	2739.3261
	Continuing Calibration Verification2	Sb (217.582 nm)	4.6148	0.15	8578.8753
	Continuing Calibration Verification2	Se (196.026 nm)	0.4753	1.28	351.2178
	Continuing Calibration Verification2	Si (252.851 nm)	9.7327	0.40	37117.5432
	Continuing Calibration Verification2	Sn (189.925 nm)	4.9795	0.09	12264.3578
	Continuing Calibration Verification2	Sr (216.596 nm)	2.4807	0.33	43658.2733
	Continuing Calibration Verification2	Ti (336.122 nm)	2.4946	0.15	360564.3838
	Continuing Calibration Verification2	Tl (190.794 nm)	0.9634	0.28	940.2349
	Continuing Calibration Verification2	V (292.401 nm)	2.5286	0.23	95822.5141
	Continuing Calibration Verification2	Y (360.074 nm)	1.04	0.37	507849.20
	Continuing Calibration Verification2	Y_R (360.074 nm)	1.04	0.38	506326.66
	Continuing Calibration Verification2	Zn (213.857 nm)	0.9809	0.26	62783.5733
6/11/2024 06:25:46	Continuing Calibration Blank2	Ag (328.068 nm)	-0.0005 u	23.83	-244.0419
	Continuing Calibration Blank2	Al (237.312 nm)	0.0058	34.77	26.5130
	Continuing Calibration Blank2	As (188.980 nm)	-0.0002 u	> 100.00	-2.4337
	Continuing Calibration Blank2	B (249.772 nm)	0.0022	14.98	77.4668
	Continuing Calibration Blank2	Ba (230.424 nm)	0.0009	8.40	59.0149
	Continuing Calibration Blank2	Be (313.107 nm)	0.0001	8.77	134.9287
	Continuing Calibration Blank2	Ca (317.933 nm)	0.0191	1.21	3423.8418
	Continuing Calibration Blank2	Cd (214.439 nm)	0.0002	22.04	15.1898
	Continuing Calibration Blank2	Co (230.786 nm)	0.0002	83.91	-5.9486
	Continuing Calibration Blank2	Cr (267.716 nm)	0.0002	69.93	14.0732
	Continuing Calibration Blank2	Cu (327.395 nm)	0.0006	27.94	-1.6443
	Continuing Calibration Blank2	Fe (234.350 nm)	0.0075	17.27	136.1040
	Continuing Calibration Blank2	K (766.491 nm)	0.0506	57.61	-136.5170
	Continuing Calibration Blank2	Mg (279.078 nm)	0.0058	19.64	-10.7744
	Continuing Calibration Blank2	Mn (257.610 nm)	0.0002	5.79	71.3315
	Continuing Calibration Blank2	Mo (202.032 nm)	0.0041	31.12	54.4622
	Continuing Calibration Blank2	Na (588.995 nm)	0.0334	14.14	-13168.5339
	Continuing Calibration Blank2	Ni (230.299 nm)	0.0000 u	> 100.00	25.0565
	Continuing Calibration Blank2	Pb (220.353 nm)	0.0004	36.96	10.0678
	Continuing Calibration Blank2	Sb (217.582 nm)	0.0027	63.96	11.5858
	Continuing Calibration Blank2	Se (196.026 nm)	0.0014 u	> 100.00	5.7922
	Continuing Calibration Blank2	Si (252.851 nm)	-0.0033 u	27.22	19.9206
	Continuing Calibration Blank2	Sn (189.925 nm)	0.0008 u	97.39	5.0078
	Continuing Calibration Blank2	Sr (216.596 nm)	0.0004	21.53	6.8777
	Continuing Calibration Blank2	Ti (336.122 nm)	0.0035	42.31	653.8694
	Continuing Calibration Blank2	Tl (190.794 nm)	0.0000 u	> 100.00	-1.1581
	Continuing Calibration Blank2	V (292.401 nm)	0.0002	68.17	-32.8968
	Continuing Calibration Blank2	Y (360.074 nm)	1.08	0.10	527037.87
	Continuing Calibration Blank2	Y_R (360.074 nm)	1.08	0.10	525462.87
	Continuing Calibration Blank2	Zn (213.857 nm)	0.0006	5.74	38.5783

Summary Calibration Results

Element and wavelength	Type	Units	Equation	Correlation Coefficient	%RSE
Ag (328.068 nm)	Analyte	ppm	56652.00250847 * Concentration - 214.70142271	0.99998	1.75371684
Al (237.312 nm)	Analyte	ppm	2471.96113709 * Concentration + 12.27941366	0.99998	1.91926591
As (188.980 nm)	Analyte	ppm	1695.90441401 * Concentration - 2.02398243	0.99999	3.84565191
B (249.772 nm)	Analyte	ppm	32471.21584063 * Concentration + 5.50648884	0.99999	3.12707480
Ba (230.424 nm)	Analyte	ppm	54446.83365420 * Concentration + 11.45353022	0.99988	2.94571263
Be (313.107 nm)	Analyte	ppm	1097602.16130218 * Concentration + 20.82403465	0.99996	3.60220119
Ca (317.933 nm)	Analyte	ppm	35620.43095662 * Concentration + 2743.02820860	0.99994	3.94485195
Cd (214.439 nm)	Analyte	ppm	56969.93917520 * Concentration + 1.98473831	0.99995	5.70541822
Co (230.786 nm)	Analyte	ppm	18133.56513846 * Concentration - 9.68248389	0.99992	3.99660600
Cr (267.716 nm)	Analyte	ppm	51981.26975432 * Concentration + 5.91705291	0.99995	5.41129914
Cu (327.395 nm)	Analyte	ppm	43897.45680217 * Concentration - 27.63605306	0.99999	1.48151211
Fe (234.350 nm)	Analyte	ppm	18208.06239873 * Concentration - 0.42346759	0.99994	4.20182104
K (766.491 nm)	Analyte	ppm	1097.39808503 * Concentration - 192.03580535	0.99999	4.40211295
Mg (279.078 nm)	Analyte	ppm	3267.91324421 * Concentration - 29.77469607	0.99998	2.25179905
Mn (257.610 nm)	Analyte	ppm	333952.61061635 * Concentration + 18.65433213	0.99995	4.37401915
Mo (202.032 nm)	Analyte	ppm	10438.66478208 * Concentration + 11.99976361	0.99997	2.47641151
Na (588.995 nm)	Analyte	ppm	13618.38633158 * Concentration - 13622.77964682	0.99998	2.13018795
Ni (230.299 nm)	Analyte	ppm	11742.78454579 * Concentration + 25.25165347	0.99993	4.29022343
Pb (220.353 nm)	Analyte	ppm	5220.75146946 * Concentration + 7.92174650	0.99995	15.541480 79
Sb (217.582 nm)	Analyte	ppm	1857.57697526 * Concentration + 6.58909602	0.99999	1.93626643
Se (196.026 nm)	Analyte	ppm	728.92168317 * Concentration + 4.77850331	0.99999	10.159643 07
Si (252.851 nm)	Analyte	ppm	3810.35553869 * Concentration + 32.65842386	0.99999	2.04001518
Sn (189.925 nm)	Analyte	ppm	2462.38203134 * Concentration + 3.01919274	0.99993	4.59265154
Sr (216.596 nm)	Analyte	ppm	17599.54462160 * Concentration - 0.66293976	0.99994	2.70574655
Ti (336.122 nm)	Analyte	ppm	144476.85912433 * Concentration + 155.39463137	0.99997	2.31275598
Tl (190.794 nm)	Analyte	ppm	977.16068749 * Concentration - 1.20392404	0.99992	8.94928880
V (292.401 nm)	Analyte	ppm	37912.24790684 * Concentration - 40.57458727	0.99998	1.85735266
Zn (213.857 nm)	Analyte	ppm	64008.07433771 * Concentration + 0.52809040	0.99998	2.91807718

Detailed Calibration Results

Ag (328.068 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-214.7014	0.0000	0.0000	N/A
Standard 2	346.9291	0.0100	0.0099	0.8631
Standard 3	917.8872	0.0200	0.0200	0.0398
Standard 4	5435.1964	0.1000	0.0997	0.2701
Standard 5	11441.8520	0.2000	0.2058	2.8786
Standard 6	56634.3506	1.0000	1.0035	0.3478

Al (237.312 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	12.2794	0.0000	0.0000	N/A
Standard 1	254.4576	0.1000	0.0980	2.0299
Standard 2	501.5798	0.2000	0.1979	1.0299
Standard 3	1016.0961	0.4000	0.4061	1.5203
Standard 4	4934.7881	2.0000	1.9913	0.4331
Standard 5	10162.4234	4.0000	4.1061	2.6527
Standard 6	49386.8261	20.0000	19.9738	0.1308

As (188.980 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-2.0240	0.0000	0.0000	N/A
Standard 1	13.9115	0.0100	0.0094	6.0357
Standard 2	30.5775	0.0200	0.0192	3.8818
Standard 3	64.9800	0.0400	0.0395	1.2268
Standard 4	336.9284	0.2000	0.1999	0.0674
Standard 5	692.8380	0.4000	0.4097	2.4324
Standard 6	3406.1319	2.0000	2.0096	0.4820

B (249.772 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	5.5065	0.0000	0.0000	N/A
Standard 2	3109.4761	0.1000	0.0956	4.4086
Standard 3	6359.5393	0.2000	0.1957	2.1590
Standard 4	31900.1710	1.0000	0.9822	1.7756
Standard 5	65836.2932	2.0000	2.0274	1.3679
Standard 6	326223.5965	10.0000	10.0464	0.4638

Ba (230.424 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	11.4535	0.0000	0.0000	N/A
Standard 1	1083.8975	0.0200	0.0197	1.5146
Standard 2	10855.9553	0.2000	0.1992	0.4120
Standard 3	22227.6444	0.4000	0.4080	2.0086
Standard 4	109006.0515	2.0000	2.0019	0.0927
Standard 5	223893.7217	4.0000	4.1119	2.7986
Standard 6	1039801.0293	20.0000	19.0973	4.5133

Be (313.107 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	20.8240	0.0000	0.0000	N/A
Standard 1	3142.4650	0.0030	0.0028	5.1982
Standard 2	5482.8841	0.0050	0.0050	0.4729
Standard 3	11192.8829	0.0100	0.0102	1.7861
Standard 4	55454.0766	0.0500	0.0505	1.0079
Standard 5	114723.2121	0.1000	0.1045	4.5027
Standard 6	551142.0898	0.5000	0.5021	0.4228

Ca (317.933 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	2743.0282	0.0000	0.0000	N/A
Standard 2	20813.4819	0.5000	0.5073	1.4612
Standard 3	39492.7013	1.0000	1.0317	3.1702
Standard 4	184833.0666	5.0000	5.1120	2.2391
Standard 5	378276.7065	10.0000	10.5426	5.4265
Standard 6	1780201.3964	50.0000	49.9000	0.2001

Cd (214.439 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	1.9847	0.0000	0.0000	N/A
Standard 1	309.5041	0.0050	0.0054	7.9585
Standard 2	590.3930	0.0100	0.0103	3.2840
Standard 3	1197.2108	0.0200	0.0210	4.8997

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Standard 4	5823.0367	0.1000	0.1022	2.1776
Standard 5	11991.6943	0.2000	0.2105	5.2284
Standard 6	56961.2564	1.0000	0.9998	0.0187

Co (230.786 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-9.6825	0.0000	0.0000	N/A
Standard 2	911.5483	0.0500	0.0508	1.6050
Standard 3	1880.3493	0.1000	0.1042	4.2284
Standard 4	9251.0174	0.5000	0.5107	2.1388
Standard 5	18947.8682	1.0000	1.0454	4.5440
Standard 6	89300.7563	5.0000	4.9251	1.4971

Cr (267.716 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	5.9171	0.0000	0.0000	N/A
Standard 2	553.1885	0.0100	0.0105	5.2824
Standard 3	1105.5040	0.0200	0.0212	5.7676
Standard 4	5301.0326	0.1000	0.1019	1.8658
Standard 5	10902.6041	0.2000	0.2096	4.8136
Standard 6	51905.0207	1.0000	0.9984	0.1581

Cu (327.395 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-27.6361	0.0000	0.0000	N/A
Standard 1	408.4990	0.0100	0.0099	0.6469
Standard 2	1052.5640	0.0250	0.0246	1.5706
Standard 3	2162.2834	0.0500	0.0499	0.2257
Standard 4	10850.7026	0.2500	0.2478	0.8750
Standard 5	22409.3776	0.5000	0.5111	2.2247
Standard 6	110109.5742	2.5000	2.5090	0.3586

Fe (234.350 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-0.4235	0.0000	0.0000	N/A
Standard 2	1844.7748	0.1000	0.1013	1.3396
Standard 3	3791.5751	0.2000	0.2083	4.1297
Standard 4	18708.4501	1.0000	1.0275	2.7505
Standard 5	38292.0122	2.0000	2.1030	5.1524
Standard 6	181956.4471	10.0000	9.9932	0.0680

K (766.491 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-192.0358	0.0000	0.0000	N/A
Standard 2	336.4366	0.5000	0.4816	3.6863
Standard 3	848.3260	1.0000	0.9480	5.1974
Standard 4	5071.5453	5.0000	4.7964	4.0716
Standard 5	10828.2569	10.0000	10.0422	0.4220
Standard 6	55161.7922	50.0000	50.4410	0.8819

Mg (279.078 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-29.7747	0.0000	0.0000	N/A
Standard 2	1603.9931	0.5000	0.4999	0.0116
Standard 3	3301.5600	1.0000	1.0194	1.9407
Standard 4	16438.8834	5.0000	5.0395	0.7901
Standard 5	33723.4500	10.0000	10.3287	3.2868
Standard 6	163146.1556	50.0000	49.9328	0.1345

Mn (257.610 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	18.6543	0.0000	0.0000	N/A
Standard 1	3452.0060	0.0100	0.0103	2.8095
Standard 2	5183.8872	0.0150	0.0155	3.1131
Standard 3	10549.1301	0.0300	0.0315	5.1095
Standard 4	51423.7190	0.1500	0.1539	2.6195
Standard 5	105310.4430	0.3000	0.3153	5.0965
Standard 6	500894.1205	1.5000	1.4998	0.0107

Mo (202.032 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	11.9998	0.0000	0.0000	N/A
Standard 1	266.3161	0.0250	0.0244	2.5483
Standard 2	523.3276	0.0500	0.0490	2.0319
Standard 3	1059.7969	0.1000	0.1004	0.3766
Standard 4	5220.3115	0.5000	0.4989	0.2112
Standard 5	10837.2990	1.0000	1.0370	3.7039
Standard 6	52232.1617	5.0000	5.0026	0.0514

Na (588.995 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-13622.7796	0.0000	0.0000	N/A
Standard 2	-6868.1971	0.5000	0.4960	0.8020
Standard 3	-12.8641	1.0000	0.9994	0.0622
Standard 4	54269.4007	5.0000	4.9853	0.2934
Standard 5	127378.3799	10.0000	10.3537	3.5373
Standard 6	671422.2847	50.0000	50.3030	0.6059

Ni (230.299 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	25.2517	0.0000	0.0000	N/A
Standard 2	503.4971	0.0400	0.0407	1.8169
Standard 3	1005.5434	0.0800	0.0835	4.3504
Standard 4	4844.6162	0.4000	0.4104	2.6027
Standard 5	9895.7808	0.8000	0.8406	5.0702
Standard 6	46660.8459	4.0000	3.9714	0.7144

Pb (220.353 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	7.9217	0.0000	0.0000	N/A
Standard 1	41.9762	0.0050	0.0065	30.4580
Standard 2	60.2148	0.0100	0.0100	0.1639
Standard 3	115.3159	0.0200	0.0206	2.8532
Standard 4	539.7134	0.1000	0.1019	1.8611

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Standard 5	1106.1551	0.2000	0.2104	5.1796
Standard 6	5226.9264	1.0000	0.9997	0.0335

Sb (217.582 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	6.5891	0.0000	0.0000	N/A
Standard 1	116.2691	0.0600	0.0590	1.5922
Standard 2	188.8470	0.1000	0.0981	1.8841
Standard 3	378.0865	0.2000	0.2000	0.0048
Standard 4	1858.0694	1.0000	0.9967	0.3282
Standard 5	3830.2635	2.0000	2.0584	2.9210
Standard 6	18679.1493	10.0000	10.0521	0.5211

Se (196.026 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	4.7785	0.0000	0.0000	N/A
Standard 2	13.3105	0.0100	0.0117	17.0491
Standard 3	18.7854	0.0200	0.0192	3.9201
Standard 4	77.4196	0.1000	0.0997	0.3444
Standard 5	153.2895	0.2000	0.2037	1.8704
Standard 6	733.6765	1.0000	1.0000	0.0032

Si (252.851 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	32.6584	0.0000	0.0000	N/A
Standard 2	1909.0856	0.5000	0.4925	1.5091
Standard 3	3870.5921	1.0000	1.0072	0.7238
Standard 4	19140.2821	5.0000	5.0147	0.2931
Standard 5	39203.3911	10.0000	10.2801	2.8007
Standard 6	193073.5037	50.0000	50.6622	1.3243

Sn (189.925 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	3.0192	0.0000	0.0000	N/A
Standard 2	254.2375	0.1000	0.1020	2.0225
Standard 3	516.3385	0.2000	0.2085	4.2323
Standard 4	2551.6638	1.0000	1.0350	3.5032
Standard 5	5192.0545	2.0000	2.1073	5.3662
Standard 6	24514.9302	10.0000	9.9546	0.4545

Sr (216.596 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-0.6629	0.0000	0.0000	N/A
Standard 2	876.9743	0.0500	0.0499	0.2659
Standard 3	1801.0972	0.1000	0.1024	2.3754
Standard 4	8857.7057	0.5000	0.5033	0.6659
Standard 5	18196.8975	1.0000	1.0340	3.3979
Standard 6	86180.6194	5.0000	4.8968	2.0642

Ti (336.122 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	155.3946	0.0000	0.0000	N/A
Standard 2	7277.0359	0.0500	0.0493	1.4148

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Standard 3	14771.0498	0.1000	0.1012	1.1626
Standard 4	72410.6800	0.5000	0.5001	0.0233
Standard 5	149770.7431	1.0000	1.0356	3.5566
Standard 6	721038.4170	5.0000	4.9896	0.2078

Tl (190.794 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-1.2039	0.0000	0.0000	N/A
Standard 1	10.0508	0.0100	0.0115	15.1773
Standard 2	16.7524	0.0200	0.0184	8.1199
Standard 3	37.8517	0.0400	0.0400	0.0787
Standard 4	197.1151	0.2000	0.2030	1.4772
Standard 5	406.2716	0.4000	0.4170	4.2499
Standard 6	1914.8961	2.0000	1.9609	1.9557

V (292.401 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-40.5746	0.0000	0.0000	N/A
Standard 2	1828.3923	0.0500	0.0493	1.4056
Standard 3	3778.4425	0.1000	0.1007	0.7331
Standard 4	18918.3881	0.5000	0.5001	0.0150
Standard 5	38928.9684	1.0000	1.0279	2.7888
Standard 6	189062.3567	5.0000	4.9879	0.2418

Zn (213.857 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	0.5281	0.0000	0.0000	N/A
Standard 2	1235.3343	0.0200	0.0193	3.5429
Standard 3	2555.8540	0.0400	0.0399	0.1952
Standard 4	12781.8649	0.2000	0.1997	0.1584
Standard 5	26499.5851	0.4000	0.4140	3.4989
Standard 6	129078.3414	2.0000	2.0166	0.8293

Preparation Information Benchsheet

Prep Run#: 439549
Team: Metals/NMANSEN

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 6/4/24 15:20

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2406336-01	MB		50mL	6010C/Ag D DOD, Ag T DOD, Al D DOD, Al T DOD, As D DOD, As T DOD, Ba D DOD, Ba T DOD, Be D DOD, Be T DOD, Cd D DOD, Cd T DOD, Co D DOD, Co T DOD, Cr D DOD, Cr T DOD, Cu D DOD, Cu T DOD, Fe D DOD, Fe T DOD, K D DOD, K T DOD, Mg D DOD, Mg T DOD, Mn D DOD, Mn T DOD, Na D DOD, Na T DOD, Ni D DOD, Ni T DOD, Pb D DOD, Pb T DOD, Sb D DOD, Sb T DOD, Se D DOD, Se T DOD, Tl D DOD, Tl T DOD, V D DOD, V T DOD, Zn D DOD, Zn T DOD	<2			50.00mL	Colorless-Clear		HB: 11 Well: C2 Temp: 90.8C
2	RQ2406336-02	LCS		50mL	6010C/Ag D DOD, Ag T DOD, Al D DOD, Al T DOD, As D DOD, As T DOD, Ba D DOD, Ba T DOD, Be D DOD, Be T DOD, Cd D DOD, Cd T DOD, Co D DOD, Co T DOD, Cr D DOD, Cr T DOD, Cu D DOD, Cu T DOD, Fe D DOD, Fe T DOD, K D DOD, K T DOD, Mg D DOD, Mg T DOD, Mn D DOD, Mn T DOD, Na D DOD, Na T DOD, Ni D DOD, Ni T DOD, Pb D DOD, Pb T DOD, Sb D DOD, Sb T DOD, Se D DOD, Se T DOD, Tl D DOD, Tl T DOD, V D DOD, V T DOD, Zn D DOD, Zn T DOD	<2			50.00mL	Colorless-Clear	0.5000 mL/235516; 0.5000 mL/235403; 0.5000 mL/233429	On HB: 15:52 HB Shutoff: 01:52 Pipet/Repippetors: M36,M340,MA100 DOD Pipet Check: M8390040
3	R2404536-001	WQM-10-052224	.01	50mL	6010C/Ag T DOD, Al T DOD, As T DOD, Ba T DOD, Be T DOD, Cd T DOD, Co T DOD, Cr T DOD, Cu T DOD, Fe T DOD, K T DOD, Mg T DOD, Mn T DOD, Na T DOD, Ni T DOD, Pb T DOD, Sb T DOD, Se T DOD, Tl T DOD, V T DOD, Zn T DOD	<2			50.00mL	Colorless-Clear		Tier IV
4	RQ2406336-03	R2404536-001 MS	.01	50mL	6010C/Ag T DOD, Al T DOD, As T DOD, Ba T DOD, Be T DOD, Cd T DOD, Co T DOD, Cr T DOD, Cu T DOD, Fe T DOD, K T DOD, Mg T DOD, Mn T DOD, Na T DOD, Ni T DOD, Pb T DOD, Sb T DOD, Se T DOD, Tl T DOD, V T DOD, Zn T DOD	<2			50.00mL	Colorless-Clear	0.5000 mL/233429; 0.5000 mL/235403; 0.5000 mL/235516	

Preparation Information Benchsheet

Prep Run#: 439549 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/NMANSEN **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 6/4/24 15:20

5	RQ2406336-04	R2404536-001 DMS	.01	50mL	6010C/Ag T DOD, Al T DOD, As T DOD, Ba T DOD, Be T DOD, Cd T DOD, Co T DOD, Cr T DOD, Cu T DOD, Fe T DOD, K T DOD, Mg T DOD, Mn T DOD, Na T DOD, Ni T DOD, Pb T DOD, Sb T DOD, Se T DOD, Tl T DOD, V T DOD, Zn T DOD	<2			50.00mL	Colorless-Clear	0.5000 mL/235403; 0.5000 mL/235516; 0.5000 mL/233429	
6	R2404536-002	WQM-10-052224-F	.01	50mL	6010C/Ag D DOD, Al D DOD, As D DOD, Ba D DOD, Be D DOD, Cd D DOD, Co D DOD, Cr D DOD, Cu D DOD, Fe D DOD, K D DOD, Mg D DOD, Mn D DOD, Na D DOD, Ni D DOD, Pb D DOD, Sb D DOD, Se D DOD, Tl D DOD, V D DOD, Zn D DOD	<2			50.00mL	Colorless-Clear		
7	RQ2406336-05	R2404536-002 MS	.01	50mL	6010C/Ag D DOD, Al D DOD, As D DOD, Ba D DOD, Be D DOD, Cd D DOD, Co D DOD, Cr D DOD, Cu D DOD, Fe D DOD, K D DOD, Mg D DOD, Mn D DOD, Na D DOD, Ni D DOD, Pb D DOD, Sb D DOD, Se D DOD, Tl D DOD, V D DOD, Zn D DOD	<2			50.00mL	Colorless-Clear	0.5000 mL/233429; 0.5000 mL/235516; 0.5000 mL/235403	
8	RQ2406336-06	R2404536-002 DMS	.01	50mL	6010C/Ag D DOD, Al D DOD, As D DOD, Ba D DOD, Be D DOD, Cd D DOD, Co D DOD, Cr D DOD, Cu D DOD, Fe D DOD, K D DOD, Mg D DOD, Mn D DOD, Na D DOD, Ni D DOD, Pb D DOD, Sb D DOD, Se D DOD, Tl D DOD, V D DOD, Zn D DOD	<2			50.00mL	Colorless-Clear	0.5000 mL/235403; 0.5000 mL/233429; 0.5000 mL/235516	
9	R2404536-003	WQM-4N-052224	.01	50mL	6010C/Ag T DOD, Al T DOD, As T DOD, Ba T DOD, Be T DOD, Cd T DOD, Co T DOD, Cr T DOD, Cu T DOD, Fe T DOD, K T DOD, Mg T DOD, Mn T DOD, Na T DOD, Ni T DOD, Pb T DOD, Sb T DOD, Se T DOD, Tl T DOD, V T DOD, Zn T DOD	<2			50.00mL	Colorless-Clear		
10	R2404536-004	WQM-4N-052224-F	.01	50mL	6010C/Ag D DOD, Al D DOD, As D DOD, Ba D DOD, Be D DOD, Cd D DOD, Co D DOD, Cr D DOD, Cu D DOD, Fe D DOD, K D DOD, Mg D DOD, Mn D DOD, Na D DOD, Ni D DOD, Pb D DOD, Sb D DOD, Se D DOD, Tl D DOD, V D DOD, Zn D DOD	<2			50.00mL	Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 439549 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/NMANSEN **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 6/4/24 15:20

11	R2404536-005	WQM-3W-052224	.01	50mL	6010C/Ag T DOD, Al T DOD, As T DOD, Ba T DOD, Be T DOD, Cd T DOD, Co T DOD, Cr T DOD, Cu T DOD, Fe T DOD, K T DOD, Mg T DOD, Mn T DOD, Na T DOD, Ni T DOD, Pb T DOD, Sb T DOD, Se T DOD, Tl T DOD, V T DOD, Zn T DOD	<2			50.00mL	Colorless-Clear		
12	R2404536-006	WQM-3W-052224-F	.01	50mL	6010C/Ag D DOD, Al D DOD, As D DOD, Ba D DOD, Be D DOD, Cd D DOD, Co D DOD, Cr D DOD, Cu D DOD, Fe D DOD, K D DOD, Mg D DOD, Mn D DOD, Na D DOD, Ni D DOD, Pb D DOD, Sb D DOD, Se D DOD, Tl D DOD, V D DOD, Zn D DOD	<2			50.00mL	Colorless-Clear		
13	R2404536-007	WQM-D-052224	.01	50mL	6010C/Ag T DOD, Al T DOD, As T DOD, Ba T DOD, Be T DOD, Cd T DOD, Co T DOD, Cr T DOD, Cu T DOD, Fe T DOD, K T DOD, Mg T DOD, Mn T DOD, Na T DOD, Ni T DOD, Pb T DOD, Sb T DOD, Se T DOD, Tl T DOD, V T DOD, Zn T DOD	<2			50.00mL	Colorless-Clear		
14	R2404536-008	WQM-D-052224-F	.01	50mL	6010C/Ag D DOD, Al D DOD, As D DOD, Ba D DOD, Be D DOD, Cd D DOD, Co D DOD, Cr D DOD, Cu D DOD, Fe D DOD, K D DOD, Mg D DOD, Mn D DOD, Na D DOD, Ni D DOD, Pb D DOD, Sb D DOD, Se D DOD, Tl D DOD, V D DOD, Zn D DOD	<2			50.00mL	Colorless-Clear		

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	233429	Logbook Ref:	233429	Expires On:	07/31/2025	Lot #:	2400837-5
Name:	C Spike	Inventory ID	235403	Logbook Ref:	235403	Expires On:	11/18/2024		
Name:	Custom LCS STD B Metals	Inventory ID	235516	Logbook Ref:	235516	Expires On:	11/02/2024		

Preparation Materials

1:1 HCl Metals Grade	1:1 223283 (233826)	Hot Block Cups	50mL Lot 2304355 (232860)	Nitric Acid Metals Grade HNO3 233477 (233477)
Thermometer	461 (230831)			

Preparation Information Benchsheet

Prep Run#: 439549
Team: Metals/NMANSEN

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 6/4/24 15:20

Preparation Steps

Step: Digestion
Started: 6/4/24 15:20
Finished: 6/5/24 06:30
By: NMANSEN
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: Nicole Mansen Date: 6/5/24
Received By: RAO1 Date: 6/5/24

Extracts Examined
Yes No

Frequency:

Pipettes: 3 trials for both bias and precision
DOD Projects - Daily before use at each volume of use, or if more than 3 volumes of use, a high, medium, and low.
Non-DOD: Quarterly at high, medium, and low.

Repeaters, Dispensers, and Repipettors: Quarterly - 3 trials for both bias and precision

Calculations:
%Recovery = Mean/Nominal Volume*100
%RSD = Stdev/Volume*100

Limits: % Rec: 98-102 for Pipettes and others for dilutions
% Recovery: 90-110 (Repeaters, Dispensers, Repipettors not for dilutions)
%RSD: ≤1 (Pipets); ≤3 (Repeaters, Dispensers, and Repipettors)

Use a balance and DI for all except Dispensers and Repipettors which contain reagents. For these, dispense into a To Contain Class A grad cylinder and document the Max Volume of the cylinder instead of the Balance ID. Record to 1/10 the graduation of the cylinder.

Date	Init.	Equipment ID	Volume (mL)	Trial #1 (g/mL)	Trial #2 (g/mL)	Trial #3 (g/mL)	Bias %Recovery	Pass/ Fail	Precision %RSD	Pass/ Fail	Recal? Y/N	Balance ID or Class A (TC)	Comments/ Corrective Action
6/4/24	MFM	M36	0.500	0.5019	0.5015	0.5006	100.26	P	0.133	P	N	R-19	DOD pipet check
↓	↓	↓	0.6000	0.6041	0.6043	0.6009	100.52	P	0.318	P	N	↓	↓
			1.000	0.9981	0.9977	0.9969	99.76	P	0.061	P	N		
		M37	0.0200	0.0199	0.0201	0.0202	100.33	P	0.764	P	N		
6/5/24	NM	M37	0.0600	0.0602	0.0603	0.0602	100.39	P	0.096	P	N	R-19	DOD Pipet Check
↓	↓	M40	0.5000	0.5006	0.5020	0.5018 0.5015 NM 6/5/24	100.29	P	0.151	P	N	↓	↓
↓	↓	↓	1.0000	0.9979	0.9978	0.9968	99.75	P	0.061	P	N		

Preparation Information Benchsheet

Prep Run#: 439397
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 6/3/24 11:52

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2406200-01	MB		50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Sr T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		HB:1 Well:B1 Temp:91.8C
2	RQ2406200-02	LCS		50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Sr T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/235516; 0.5000 mL/233429; 0.5000 mL/235403	On HB:18:02 HB Shutoff:4:02 Pipet/Repipettor:M340,MA100,M23
3	RQ2406200-03	DLCS		50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Sr T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/235516; 0.5000 mL/233429; 0.5000 mL/235403	
4	R2404637-001	BI-1	.06	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
5	R2404637-002	BI-2	.06	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
6	R2404637-003	BI-4	.06	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
7	R2404637-004	BI-7	.06	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
8	R2404637-005	BI-10	.06	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
9	R2404638-001	River Upstream	.14	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
10	R2404638-002	River Downstream	.14	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
11	R2404639-001	OW-27	.01	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
12	R2404639-002	OW-15	.01	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
13	R2404639-003	OW-4	.01	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
14	R2404639-004	SW-4	.01	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
15	R2404639-005	SW-5	.01	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Tan-Cloudy/Colorless-Cloudy		
16	R2404639-006	MW-10A	.01	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Cloudy		

Preparation Information Benchsheet

Prep Run#: 439397
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 6/3/24 11:52

17	R2404647-002	Secondary leachate Cell 6	.09	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Orange-Cloudy/Colorless-Cloudy		
18	R2404647-003	Primary Leachate Cell 6	.09	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Orange-Cloudy/Colorless-Cloudy		
19	R2404647-004	Total Leachate	.09	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Orange-Cloudy/Colorless-Clear		
20	R2404647-005	Gas Condensate	.12	50mL	6010C/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
21	R2404677-001	Weekly Concentrate	.02	50mL	6010C/Al T, B T, Ba T, Ca T, Fe T, K T, Mg T, Mn T, Na T, Sr T	<2			50.00mL	Orange-Cloudy/Colorless-Cloudy		

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	233429	Logbook Ref:	233429	Expires On:	07/31/2025	Lot #: 2400837-5
Name:	C Spike	Inventory ID	235403	Logbook Ref:	235403	Expires On:	11/18/2024	
Name:	Custom LCS STD B Metals	Inventory ID	235516	Logbook Ref:	235516	Expires On:	11/02/2024	

Preparation Materials

1:1 HCl Metals Grade	1:1 223283 (233826)	Hot Block Cups	50mL Lot 2211204 (234023)	Nitric Acid Metals Grade HNO3 233477 (233477)
Thermometer	460 (230830)			

Preparation Steps

Step: Digestion
Started: 6/3/24 11:52
Finished: 6/4/24 12:29
By: CDISTEFANO
Comments

Comments: _____

Reviewed By: Nicole Manson Date: 6/4/24

Preparation Information Benchsheet

Prep Run#: 439397
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 6/3/24 11:52

4637 6/10
4638 6/10
4639 6/10
4647 6/10
4677 6/7 * RUSH

Chain of Custody

Relinquished By:		Date:	6/4/24	Extracts Examined
Received By:		Date:	6/4/24	Yes No

Preparation Information Benchsheet

Prep Run#: 439398
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 6/3/24 11:52

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2406181-01	MB		50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Sr T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		HB:1 Well:B1 Temp:91.8C
2	RQ2406181-02	LCS		50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Sr T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/235516; 0.5000 mL/233429; 0.5000 mL/235403	On HB:18:02 HB Shutoff:4:02 Pipet/Repipettor:M340,MA100,M23
3	R2404632-001	MH4	.06	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		Tier IV
4	R2404643-001	SCA-PAR0038-01	.05	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		Tier IV
5	R2404643-002	SCA-PAR0038-02	.05	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
6	RQ2406181-03	R2404643-002 MS	.05	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/235403; 0.5000 mL/235516; 0.5000 mL/233429	
7	RQ2406181-04	R2404643-002 DMS	.05	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/233429; 0.5000 mL/235403; 0.5000 mL/235516	
8	R2404651-001	1405280845C 400-GV-125	.02	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		
9	R2404651-002	1405280846C 400-GV-125	.02	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		
10	R2404651-003	1405280857A 400-FV-131	.02	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 439398 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/CDISTEFANO **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 6/3/24 11:52

11	R2404651-004	1405280858A 400-FV-131	.02	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		
12	R2404651-005	1405281005A 400-EV-131	.02	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		
13	R2404651-006	1405281013C 400-JV-150	.02	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		
14	R2404651-007	1405281450C 400-HV-147	.02	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		
15	R2404693-001	CF-2B	.06	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
16	R2404693-002	CF-2A	.06	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
17	R2404693-003	CF-1C	.06	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Cloudy		
18	R2404693-004	CF-1B	.06	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
19	R2404693-005	CF-1A	.06	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
20	R2404693-006	CF-4A	.06	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
21	R2404693-007	CF-3B	.06	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
22	R2404693-008	CF-3A	.06	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
23	R2404693-009	CF-6A	.06	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
24	R2404693-010	CF-6B	.06	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	233429	Logbook Ref:	233429	Expires On:	07/31/2025	Lot #: 2400837-5
Name:	C Spike	Inventory ID	235403	Logbook Ref:	235403	Expires On:	11/18/2024	
Name:	Custom LCS STD B Metals	Inventory ID	235516	Logbook Ref:	235516	Expires On:	11/02/2024	

Preparation Materials

1:1 HCl Metals Grade	1:1 223283 (233826)	Hot Block Cups	50mL Lot 2211204 (234023)	Nitric Acid Metals Grade HNO3 233477 (233477)
Thermometer	460 (230830)			

Preparation Information Benchsheet

Prep Run#: 439398
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 6/3/24 11:52

Preparation Steps

Step: Digestion
Started: 6/3/24 11:52
Finished: 6/4/24 12:35
By: CDISTEFANO
Comments

4632 (IV) 6/10
4643 (IV) 6/10
4651 6/14
4693 (1-10) 6/11

Comments:

Reviewed By: Nicole Mansen Date: 6/4/24

Chain of Custody

Relinquished By: [signature] Date: 6/4/24
Received By: R-401 Date: 6/4/24

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 439400
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 6/3/24 11:52

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2406180-01	MB		50mL	6010C/Al D, As T, Ca T, Cd T, Cr T, Fe T, K T, Mg T, Mn T, Na T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		HB:11 Well:B1 Temp:93.9C
2	RQ2406180-04	MB		50mL	6010C/Al D	<2			50.00mL	Colorless-Clear		Filter Blank R2404658 6/3/2024
3	RQ2406180-02	LCS		50mL	6010C/Al D, As T, Ca T, Cd T, Cr T, Fe T, K T, Mg T, Mn T, Na T, Pb T, Sb T	<2			50.00mL	Colorless-Clear	0.5000 mL/235516; 0.5000 mL/233429; 0.5000 mL/235403	On HB:18:02 HB Shutoff:4:02 Pipet/Repipettor:M340,MA100,M23
4	RQ2406180-03	DLCS		50mL	6010C/Al D, As T, Ca T, Cd T, Cr T, Fe T, K T, Mg T, Mn T, Na T, Pb T, Sb T	<2			50.00mL	Colorless-Clear	0.5000 mL/235516; 0.5000 mL/233429; 0.5000 mL/235403	
5	R2404656-001	MW-30S	.01	50mL	6010C/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
6	R2404656-002	MW-30D	.01	50mL	6010C/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
7	R2404656-003	MW-29D	.01	50mL	6010C/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
8	R2404656-004	MW-28S	.01	50mL	6010C/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
9	R2404656-005	MW-28D	.01	50mL	6010C/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
10	R2404656-006	MW-19S	.01	50mL	6010C/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
11	R2404656-007	MW-20S	.01	50mL	6010C/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
12	R2404656-008	MW-21D	.01	50mL	6010C/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
13	R2404656-009	MW-23DR	.01	50mL	6010C/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
14	R2404656-010	DUP-02	.01	50mL	6010C/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
15	R2404656-011	MW-26SR	.01	50mL	6010C/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
16	R2404656-012	PZ-13	.01	50mL	6010C/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
17	R2404656-013	MW-09S	.01	5mL	6010C/As T, Cd T, Cr T, Pb T, Sb T	6			50.00mL	Colorless-Cloudy/Colorless-Clear		Diluted 10x
18	R2404656-014	MW-18D	.01	50mL	6010C/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
19	R2404656-015	MW-23SR	.01	50mL	6010C/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
20	R2404658-001	Pump Station	.02	50mL	6010C/Fe T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
21	R2404658-002	Pump Station Diss	.01	50mL	6010C/Al D	<2			50.00mL	Colorless-Clear		
22	R2404658-003	TSD	.02	50mL	6010C/Fe T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
23	R2404658-004	TSD Diss	.01	50mL	6010C/Al D	<2			50.00mL	Colorless-Clear		
24	R2404693-011	CF-7	.06	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 439400
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 6/3/24 11:52

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	233429	Logbook Ref:	233429	Expires On:	07/31/2025	Lot #:	2400837-5
Name:	C Spike	Inventory ID	235403	Logbook Ref:	235403	Expires On:	11/18/2024		
Name:	Custom LCS STD B Metals	Inventory ID	235516	Logbook Ref:	235516	Expires On:	11/02/2024		

Preparation Materials

1:1 HCl Metals Grade	1:1 223283 (233826)	Hot Block Cups	50mL Lot L223102601 (235558)	Nitric Acid Metals Grade HNO3 233477 (233477)
Thermometer	461 (230831)			

Preparation Steps

Step: Digestion
Started: 6/3/24 11:52
Finished: 6/4/24 12:43
By: CDISTEFANO
Comments

46560 6/11
46598 6/11
46693(all) 6/11

Comments: _____

Reviewed By: Nicole Manson Date: 6/4/24

Chain of Custody

Relinquished By: CD Date: 6/4/24
Received By: R - AGI Date: 6/4/24

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 439599 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/CDISTEFANO **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 6/6/24 10:26

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2406391-01	MB		50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Sr T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		HB:11 Well:E4 Temp:92.4C
2	RQ2406391-02	LCS		50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Sr T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/233429; 0.5000 mL/235403; 0.5000 mL/235516	On HB:18:15 HB Shutoff:4:15 Pipet/Repipettor:M340,MA100,M23
3	RQ2406391-03	DLCS		50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Sr T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/235403; 0.5000 mL/235516; 0.5000 mL/233429	
4	R2404631-005	M13D-0624	.02	50mL	6010C/Na T	<2			50.00mL	Colorless-Clear		
5	R2404631-006	M13S-0624	.02	50mL	6010C/Na T	<2			50.00mL	Colorless-Clear		
6	R2404631-007	M11D-0624	.02	50mL	6010C/Na T	<2			50.00mL	Colorless-Clear		
7	R2404631-008	MWR6D-0624	.02	50mL	6010C/Na T	<2			50.00mL	Colorless-Clear		
8	R2404631-009	MWR9S-0624	.02	50mL	6010C/Na T	<2			50.00mL	Colorless-Clear		
9	R2404631-010	MWR9D-0624	.02	50mL	6010C/Na T	<2			50.00mL	Colorless-Clear		
10	R2404631-011	M11S-0624	.02	50mL	6010C/Na T	<2			50.00mL	Colorless-Clear		
11	R2404730-001	SCA-PAR0040-01	.05	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		Tier IV
12	R2404730-002	SCA-PAR0040-02	.05	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
13	R2404730-003	SCA-PAR0040-03	.05	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
14	R2404730-004	SCA-PAR0040-04	.05	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
15	R2404730-006	SCA-PAR0040-06	.05	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 439599 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/CDISTEFANO **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 6/6/24 10:26

16	R2404731-003	4413-060324-1200	.03	50mL	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		Tier IV
17	R2404758-001	Weekly Concentrate	.02	50mL	6010C/Al T, B T, Ba T, Ca T, Fe T, K T, Mg T, Mn T, Na T, Sr T	<2			50.00mL	Orange-Cloudy/Yellow-Cloudy		
18	R2404765-002	Hauler Sludge	.02	50mL	6010C/As T, Ba T, Cd T, Cr T, Cu T, K T, Mo T, Ni T, Pb T, Se T, Zn T	<2			50.00mL	Orange-Cloudy/Yellow-Cloudy		
19	R2404780-001	SCA-PAR0041-01	.05	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		Tier IV
20	R2404780-002	SCA-PAR0041-02	.05	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
21	R2404780-003	SCA-PAR0041-03	.05	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	233429	Logbook Ref:	233429	Expires On:	07/31/2025	Lot #:	2400837-5
Name:	C Spike	Inventory ID	235403	Logbook Ref:	235403	Expires On:	11/18/2024		
Name:	Custom LCS STD B Metals	Inventory ID	235516	Logbook Ref:	235516	Expires On:	11/02/2024		

Preparation Materials

1:1 HCl Metals Grade	1:1 223283 (233826)	Hot Block Cups	50mL Lot L223102601 (235558)	Nitric Acid Metals Grade HNO3 233477 (233477)
Thermometer	461 (230831)			

Preparation Steps

Step: Digestion
Started: 6/6/24 10:26
Finished: 6/7/24 14:02
By: CDISTEFANO
Comments

4651 6/10
4730 (19) 6/21
4731 (19) 6/21
4758 6/11 * RUSH
4765 6/14
4780 (12) 6/21

Comments: _____

Reviewed By: Nicole Mansen Date: 6/10/24

Preparation Information Benchsheet

Prep Run#: 439599
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 6/6/24 10:26

Chain of Custody

Relinquished By:		Date:	6/7/24	Extracts Examined
Received By:		Date:	6/7/24	Yes No

Preparation Information Benchsheet

Prep Run#: 439480
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigSICP
Prep Method: EPA 3050B

Status: Prepped
Prep Date/Time: 6/5/24 09:20

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2406266-01	MB		0.5g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T, Si T				50.00mL	White-Coarse/Colorless-Clear		HB:12 Well:D3 Temp:91.9C/92.9C
2	RQ2406266-02	LCS		0.5g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				50.00mL	White-Coarse/Colorless-Clear	0.5000 mL/235516; 0.5000 mL/233429; 0.5000 mL/235403	On HB:12:03-12:18,12:20-12:50,12:53-13:23,14:52-15:07,15:08-15:23 Pip:M340,MA100,M380,M38,M33,M23
3	R2404648-001	Taylor Rd - SB01	.02	0.5100g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				50.00mL	Brown-Medium/Yellow-Clear		
4	RQ2406266-03	R2404648-001 MS	.02	0.5500g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				50.00mL	Brown-Medium/Yellow-Clear	0.5000 mL/233429; 0.5000 mL/235516; 0.5000 mL/235403	
5	RQ2406266-04	R2404648-001 DMS	.02	0.5500g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				50.00mL	Brown-Medium/Yellow-Clear	0.5000 mL/235403; 0.5000 mL/235516; 0.5000 mL/233429	
6	R2404648-002	Taylor Rd - SB02	.02	0.5g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				50.00mL	Brown-Medium/Yellow-Clear		
7	R2404648-003	Taylor Rd - SB03	.02	0.5200g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				50.00mL	Brown-Medium/Yellow-Clear		
8	R2404648-004	Waller Rd - SB01	.02	0.5500g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				50.00mL	Brown-Medium/Yellow-Clear		
9	R2404648-005	Waller Rd - SB02	.02	0.5100g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				50.00mL	Brown-Medium/Yellow-Clear		
10	R2404648-006	Waller Rd - SB03	.02	0.5500g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				50.00mL	Brown-Medium/Yellow-Clear		
11	R2404648-007	Haneys Branch - SB01	.02	0.5500g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				50.00mL	Brown-Medium/Yellow-Clear		
12	R2404648-008	Haneys Branch - SB02	.02	0.5g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				50.00mL	Brown-Medium/Yellow-Clear		
13	R2404648-009	Haneys Branch - SB03	.02	0.5g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				50.00mL	Brown-Medium/Yellow-Clear		
14	R2404648-010	Taylor Mill Rd - SB01	.02	0.5400g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				50.00mL	Brown-Medium/Yellow-Clear		
15	R2404648-011	Taylor Mill Rd - SB02	.02	0.5500g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				50.00mL	Brown-Medium/Yellow-Clear		
16	R2404648-012	Taylor Mill Rd - SB03	.02	0.5300g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				50.00mL	Brown-Medium/Yellow-Clear		
17	R2404648-013	Taylor Mill Rd - SB04	.02	0.5300g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				50.00mL	Brown-Medium/Yellow-Clear		
18	R2404648-014	Taylor Mill Rd - SB05	.02	0.5100g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				50.00mL	Brown-Medium/Yellow-Clear		
19	R2404648-015	524 Telegraph - SB01	.02	0.5200g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				50.00mL	Brown-Medium/Yellow-Clear		
20	R2404648-016	524 Telegraph - SB02	.02	0.5400g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				50.00mL	Brown-Medium/Yellow-Clear		
21	R2404648-017	524 Telegraph - SB03	.02	0.5200g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				50.00mL	Brown-Medium/Yellow-Clear		
22	R2404648-018	685 Telegraph - SB01	.02	0.5200g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				50.00mL	Brown-Medium/Yellow-Clear		

Preparation Information Benchsheet

Prep Run#: 439480 **Prep WorkFlow:** MetDigSICP **Status:** Prepped
Team: Metals/CDISTEFANO **Prep Method:** EPA 3050B **Prep Date/Time:** 6/5/24 09:20

23	R2404648-019	685 Telegraph - SB02	.02	0.5200g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				50.00mL	Brown-Medium/Yellow-Clear		
24	R2404648-020	685 Telegraph - SB03	.02	0.5200g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				50.00mL	Brown-Medium/Yellow-Clear		

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	233429	Logbook Ref:	233429	Expires On:	07/31/2025	Lot #: 2400837-5
Name:	C Spike	Inventory ID	235403	Logbook Ref:	235403	Expires On:	11/18/2024	
Name:	Custom LCS STD B Metals	Inventory ID	235516	Logbook Ref:	235516	Expires On:	11/02/2024	

Preparation Materials

1:1 HCl Metals Grade	1:1 223283 (233826)	1:1 Nitric Acid Metals Grade	1:1 233477 (234026)	Boiling Stones PTFE	226047 (226047)
Hot Block Cups	50mL Lot L223102601 (235558)	Hydrogen Peroxide 30% Reagent Grade H2O2	233709 (233709)	Nitric Acid Metals Grade HNO3	233477 (233477)
Thermometer	462 (230832)				

Preparation Steps

Step: Digestion
Started: 6/5/24 09:20
Finished: 6/5/24 16:32
By: CDISTEFANO
Comments

4648 1-20 6/11

50:15

Comments: _____

Reviewed By: Nicole Mansen Date: 6/10/24

Chain of Custody

Relinquished By: _____ Date: 6/5/24

Received By: R. AOI Date: 6/5/24

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 439600 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/CDISTEFANO **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 6/6/24 10:26

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2406394-01	MB		50mL	6010C/Ag T, Al T, As D, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe D, Fe T, K T, Mg T, Mn D, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		HB:11 Well:E4 Temp:92.4C
2	RQ2406394-02	LCS		50mL	6010C/Ag T, Al T, As D, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe D, Fe T, K T, Mg T, Mn D, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/235403; 0.5000 mL/233429; 0.5000 mL/235516	On HB:18:15 HB Shutoff:4:15 Pipet/Repipettor:M340,MA100,M23
3	R2404674-001	OLN-RU009-F008	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		Tier IV
4	R2404674-002	OLN-FB001-B008	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
5	R2404674-004	OLN-RU010-F008	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
6	R2404674-005	OLN-RU015-F008	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
7	R2404674-006	OLN-RU019-F008	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
8	R2404674-007	OLN-RU020-F008	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
9	R2404674-008	OLN-RU021-F008	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
10	R2404674-009	OLN-RU027A-F008	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
11	R2404674-010	OLN-RU028-F008	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
12	R2404674-011	OLN-UA002-F008	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
13	RQ2406394-03	R2404674-011 MS	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear	0.5000 mL/233429; 0.5000 mL/235403; 0.5000 mL/235516	
14	RQ2406394-04	R2404674-011 DMS	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear	0.5000 mL/233429; 0.5000 mL/235403; 0.5000 mL/235516	
15	R2404674-012	OLN-WW18M-F008	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
16	R2404674-013	OLN-FD001-D008	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
17	R2404674-014	OLN-FB002-B008	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
18	R2404674-016	OLN-EB001-E008	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
19	R2404694-001	SCA-PAR0039-01	.05	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		Tier IV
20	R2404694-002	SCA-PAR0039-02	.05	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
21	R2404694-003	SCA-PAR0039-03	.05	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 439600 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/CDISTEFANO **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 6/6/24 10:26

22	R2404694-004	SCA-PAR0039-04	.07	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	233429	Logbook Ref:	233429	Expires On:	07/31/2025	Lot #:	2400837-5
Name:	C Spike	Inventory ID	235403	Logbook Ref:	235403	Expires On:	11/18/2024		
Name:	Custom LCS STD B Metals	Inventory ID	235516	Logbook Ref:	235516	Expires On:	11/02/2024		

Preparation Materials

1:1 HCl Metals Grade	1:1 223283 (233826)	Hot Block Cups	50mL Lot L223102601 (235558)	Nitric Acid Metals Grade HNO3 233477 (233477)
Thermometer	461 (230831)			

Preparation Steps

Step: Digestion
Started: 6/6/24 10:26
Finished: 6/7/24 14:09
By: CDISTEFANO
Comments

4674 (N) 6/17
4694 (N) 6/17

Comments: _____

Reviewed By: Nicole Mansen Date: 6/10/24

Chain of Custody

Relinquished By: _____ Date: 6/7/24

Received By: _____ Date: 6/7/24

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 439601
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 6/6/24 10:27

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2406395-01	MB		50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		HB:1 Well:E4 Temp:93.2C
2	RQ2406395-02	LCS		50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/233429; 0.5000 mL/235516; 0.5000 mL/235403	On HB:18:15 HB Shutoff:4:15 Pipet/Repipettor:M340,MA100,M23
3	R2404782-001	MW-8A	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
4	R2404782-002	MW-8C	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
5	RQ2406395-03	R2404782-002 MS	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear	0.5000 mL/233429; 0.5000 mL/235516; 0.5000 mL/235403	
6	RQ2406395-04	R2404782-002 DMS	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear	0.5000 mL/235516; 0.5000 mL/233429; 0.5000 mL/235403	
7	R2404782-003	MW-15C	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
8	R2404782-004	DUPE Y	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
9	R2404782-005	MW-15AA	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
10	R2404782-006	MW-9C	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
11	R2404782-007	MW-9AA	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
12	R2404782-008	MW-31S	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
13	R2404782-009	MW-31I	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
14	R2404782-010	MW-32S	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
15	R2404782-011	MW-32I	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
16	R2404782-012	MW-32D	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
17	R2404782-013	MW-31D	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
18	R2404782-014	MW-33I	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
19	R2404782-015	MW-33D	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
20	R2404850-001	SCA-PAR0042-01	.05	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		Tier IV

Preparation Information Benchsheet

Prep Run#: 439601 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/CDISTEFANO **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 6/6/24 10:27

21	R2404850-002	SCA-PAR0042-02	.05	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
22	R2404850-005	SCA-PAR0042-05	.05	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
23	R2404850-006	SCA-PAR0042-06	.05	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	233429	Logbook Ref:	233429	Expires On:	07/31/2025	Lot #:	2400837-5
Name:	C Spike	Inventory ID	235403	Logbook Ref:	235403	Expires On:	11/18/2024		
Name:	Custom LCS STD B Metals	Inventory ID	235516	Logbook Ref:	235516	Expires On:	11/02/2024		

Preparation Materials

1:1 HCl Metals Grade	1:1 223283 (233826)	Hot Block Cups	50mL Lot L223102601 (235558)	Nitric Acid Metals Grade HNO3 233477 (233477)
Thermometer	460 (230830)			

Preparation Steps

Step: Digestion
Started: 6/6/24 10:27
Finished: 6/7/24 14:16
By: CDISTEFANO
Comments

4782 6/21
4850 6/21

Comments: _____

Reviewed By: Nicole Mansen Date: 6/10/24

Chain of Custody

Relinquished By: [signature] Date: 6/7/24
Received By: R-A01 Date: 6/7/24

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 439481
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigSICP
Prep Method: EPA 3050B

Status: Prepped
Prep Date/Time: 6/5/24 09:20

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2406268-01	MB		0.5g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	White-Coarse/Colorless-Clear		HB:12 Well:D3 Temp:91.9C/92.9C
2	RQ2406268-05	MB		0.5000g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Cu T, Pb T, Se T				50.00mL	White-Coarse/Colorless-Clear		Non-Aq Matrix
3	RQ2406268-02	LCS		0.5g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	White-Coarse/Colorless-Clear	0.5000 mL/235516; 0.5000 mL/235403; 0.5000 mL/233429	On HB:12:03-12:18,12:20-12:50,12:53-13:23,14:52-15:07,15:08-15:23 Pip:M340,MA100,M380,M38,M33,M23
4	RQ2406268-06	LCS		0.5000g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Cu T, Pb T, Se T				50.00mL	White-Coarse/Colorless-Clear	0.5000 mL/235403; 0.5000 mL/233429; 0.5000 mL/235516	Non-Aq Matrix
5	R2404703-001	Bulk Waste Solvents	.03	0.5300g	6010C/Cu T, Pb T				50.00mL	Red-Liquid/Colorless-Clear		
6	R2404704-001	Bulk Waste Solvents	.01	0.5200g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				50.00mL	Red-Liquid/Colorless-Clear		
7	R2404705-001	PGMEA Waste	.02	0.5500g	6010C/Cu T, Pb T				50.00mL	Red-Liquid/Colorless-Clear		
8	R2404731-001	OU12115B-060324-1100	.01	0.5400g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Grey-Medium/Yellow-Clear		Tier IV
9	RQ2406268-03	R2404731-001 MS	.01	0.5400g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Grey-Medium/Yellow-Clear	0.5000 mL/235516; 0.5000 mL/233429; 0.5000 mL/235403	
10	RQ2406268-04	R2404731-001 DMS	.01	0.5200g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Grey-Medium/Yellow-Clear	0.5000 mL/233429; 0.5000 mL/235403; 0.5000 mL/235516	
11	R2404731-002	4413-060324-0001	.01	0.5200g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Grey-Medium/Yellow-Clear		
12	R2404750-001	End of Belt Press Sludge Composite	.02	0.5400g	6010C/As T, Cd T, Cr T, Cu T, K T, Mo T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
13	R2404750-002	Finished Compost Pile	.01	0.5500g	6010C/As T, Cd T, Cr T, Cu T, K T, Mo T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
14	R2404765-001	Filter Cake	.02	0.5400g	6010C/As T, Ba T, Cd T, Cr T, Cu T, K T, Mo T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		

Spiking Solutions

Name: Custom LCS STD A Metals Inventory ID 233429 Logbook Ref: 233429 Expires On: 07/31/2025 Lot #: 2400837-5

Preparation Information Benchsheet

Prep Run#: 439481
Team: Metals/CDISTEFANO
Prep WorkFlow: MetDigSICP
Prep Method:
Status: Prepped
Prep Date/Time: 6/5/24 09:20

Name:	C Spike	Inventory ID	235403	Logbook Ref:	235403	Expires On:	11/18/2024
Name:	Custom LCS STD B Metals	Inventory ID	235516	Logbook Ref:	235516	Expires On:	11/02/2024

Preparation Materials

1:1 HCl Metals Grade	1:1 223283 (233826)	1:1 Nitric Acid Metals Grade	1:1 233477 (234026)	Boiling Stones PTFE	226047 (226047)
Hot Block Cups	50mL Lot L223102601 (235558)	Hydrogen Peroxide 30% Reagent Grade H2O2	233709 (233709)	Nitric Acid Metals Grade HNO3	233477 (233477)
Thermometer	462 (230832)				

Preparation Steps

Step: Digestion
Started: 6/5/24 09:20
Finished: 6/5/24 16:34
By: CDISTEFANO
Comments

4703
4704
4705
] Non-Aq 6/14

4731 (IV) 6/21
4750 6/14
4765 6/14 Soils

Comments: _____

Reviewed By: Nicole Maassen Date: 6/10/24

Chain of Custody

Relinquished By: CD Date: 6/5/24
Received By: R. Aoy Date: 6/5/24

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 439635
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigLP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 6/6/24 13:24

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2406375-01	MB	.02	50mL	6010C/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP	<2			50.00mL	Colorless-Clear		
2	RQ2406399-01	MB		50mL	6010C/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP	<2			50.00mL	Colorless-Clear		HB:1 Well:E4 Temp:93.2C
3	RQ2406399-02	LCS		50mL	6010C/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP	<2			50.00mL	Colorless-Clear	1.0000 mL/235099	On HB:18:15 HB Shutoff:4:15 Pipet/Repipettor:M340,MA100,M28
4	R2404768-001	Permeate at Plant	.12	50mL	6010C/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP	<2			50.00mL	Colorless-Clear		
5	RQ2406399-03	R2404768-001 MS	.12	50mL	6010C/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP	<2			50.00mL	Colorless-Clear	1.0000 mL/235099	
6	RQ2406399-04	R2404768-001 DMS	.12	50mL	6010C/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP	<2			50.00mL	Colorless-Clear	1.0000 mL/235099	

Spiking Solutions

Name: TCLP Spike Inventory ID 235099 Logbook Ref: 235099 Expires On: 01/14/2025

Preparation Materials

1:1 HCl Metals Grade	1:1 223283 (233826)	Hot Block Cups	50mL Lot L223102601 (235558)	Hydrochloric Acid (HCl) Metals Grade	233283 (233283)
Nitric Acid Metals Grade HNO3	233477 (233477)	Thermometer	460 (230830)		

Preparation Steps

Step: Digestion
Started: 6/6/24 13:24
Finished: 6/7/24 14:17
By: CDISTEFANO
Comments

Comments: _____

Reviewed By: Nicole Mansen Date: 6/10/24

Preparation Information Benchsheet

Prep Run#: 439635
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigLP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 6/6/24 13:24

TCP
4768 6/14

Chain of Custody

Relinquished By:	CD	Date:	6/7/24	Extracts Examined
Received By:	R. Aoi	Date:	6/7/24	Yes No

Water

Preparation Information Benchsheet

Prep Run#: 439589
Team: Semivoa GC/KPROCOPIO

Prep WorkFlow: TCLP
Prep Method:

Status: Prepped
Prep Date/Time: 6/5/24 15:52

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2406375-01	MB		500.00	EPA 1311/TCLP							
2	R2404768-001	Permeate at Plant	.06	500.00	EPA 1311/TCLP							

Preparation Steps

Step: Leach
Started: 6/5/24 15:52
Finished: 6/6/24 09:24
By: KPROCOPIO
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Water : 439589

SOP: MET-TCLP

Non-VOA TCLP Extraction - EPA 1311

Analyst: VP + MW

Rotator ID				
Date started	6/6/24			
Time started				
RPM (daily when full)				
Within 28-32rpm?				
Date ended				
Time ended				

Comments: _____

Room Temp Therm ID: _____ °C

Min _____

Max _____

Within Limits (21-25°C)? _____

Comments: _____

pH Meter: PH-09

Balance: _____

HNO3 preservative: _____

Fluid #1 concentrate: _____ pH 4.93±0.05

Fluid #2 concentrate: _____ pH 2.88±0.05

Filter Lot: 233256

Filter Date: 6/6/24

Diluted fluid concentrates prepared Daily

Fluid Determination Hotplate:

Thermometer ID _____

Temp °C _____

1N HCl lot (if used): _____

Order #	Extraction Vessel ID	Rotator ID	Tests Needed	Will yield Liquid under Pressure?	Part size Reduced?*	Fluid determination** A. 5g+96.5mLDI 5min g	Start	End	pH	B.IfpH >5, add 3.5mL 1N HCl 10m@48-52C Start	End	pH	Sample Amt (g)	Fluid # used	Fluid vol Used (ml)	Filtration Time	pH	If separated Filtrate Compatible?	Recombination amount filtrate	amount leachate	Comments
R0021063750			MET/SVOA													10:55	8.79				
R0021047685-001																11:04	7.94				

Metals extracts matrix spiked prior to preservation? _____

Comments:

Percent Solids Determinination, if needed

Order #					
Ws: Weight of sample					
Wc: Tare Wt of container					
Wcs: Final Wt of container					
%solids = 100 x [Ws-(Wcs-Wc)]/Ws					

*Reduce until will pass 9.5mm sieve

**If pH in A or B is <5.0 use fluid 1, if >5.0 use fluid 2

Volume of ext fluid: 20(%sol)(sample wt)/100

ICP ICV/CCV Standard

Standard is prepared daily

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 1	Ca	233888	5000	1.00	200	25.00
	Mg		5000			25.00
	K		5000			25.00
	Na		5000			25.00
Cal Std 2	Ag	233889	100	1.00		0.50
	Cr		100			0.50
	Mn		150			0.75
	Ni		400			2.00
	Zn		200			1.00
Cal Std 3	Al	233056	2000	1.00		10.00
	Ba		2000			10.00
	Be		50			0.25
	Co		500			2.50
	Cu		250			1.25
	Fe		1000			5.00
	V		500			2.50
Cal Std 4	As	232796	100	2.00		1.00
	Cd		50			0.50
	Pb		50			0.50
	Se		50			0.50
	Tl		100			1.00
	Sb	232797	1000	1.00		5.00
	Sn	232726	1000	1.00		5.00
	B	231910	1000	0.50		2.50
	Mo	230303	1000	0.50		2.50
	Ti	233840	1000	0.50		2.50
	Sr	230304	1000	0.50		2.50
	Si	234060	1000	2.00		10.00

Matrix	Analyst/ Date	Letter ID	HNO3 Lot #	HCl Lot #	Expiration Date	Pipet ID
10% HNO3 5% HCl	MFM 5/23/24	A	233477	233283	5/24/24	M36
2% HNO3 5% HCl	NM 5/24/24	B	233477	233283	5/25/24	M40
10% HNO3 5% HCl	NM 5/28/24	C	233477	233283	5/29/24	M40
10% HNO3 5% HCl	NM 5/29/24	D	233477	233283	5/30/24	M40
2% HNO3 5% HCl	NM 5/30/24	E	233477	233283	5/31/24	M36
10% HNO3 5% HCl	NM 5/31/24	F	233477	233283	6/1/24	M40
10% HNO3 5% HCl	NM 6/3/24	G	233477	233283	6/4/24	M40
10% HNO3 5% HCl	NM 6/4/24	H	233477	233283	6/5/24	M40
10% HNO3 5% HCl	NM 6/5/24	I	233477	233283	6/6/24	M40
2% HNO3 5% HCl	NM 6/5/24	J	233477	233283	6/6/24	M40
2% HNO3 5% HCl	MFM 6/6/24	K	233477	233283	6/7/24	M36
10% HNO3 5% HCl	NM 6/10/24	L	235024	233283	6/11/24	M40
2% HNO3 5% HCl	NM 6/10/24	M	235024	233283	6/11/24	M40
		N				
		O				
		P				
		Q				
		R				
		S				
		T				
		U				
		V				
		W				
		X				
		Y				
		Z				
		AA				
		BB				
		CC				
		DD				

ICP Calibration Standard #1

Standard is prepared every 6 months or as necessary

Metal	ALS Lot #	Conc. (ppm)	Vol (mls)	Final Vol (mls)	Final Conc. (ppm)
Al	221983	10000 ~~0.01~~	1000		0.100
As	230302	1000	0.01	0.10mL MFM 3/28/24	0.010
Ba	233717	1000	0.02		0.020
Be	230311 (1/10)	100	0.03		0.003
Cd	227603 (1/10)	100	0.05		0.005
Cu	230454	1000	0.01		0.010
Mn	233718	1000	0.01		0.010
Mo	233720	1000	0.025		0.025
Pb	227185 (1/10)	100	0.05		0.050
Sb	230313	1000	0.06		0.060
Tl	233695	1000	0.01		0.010

Matrix	Analyst/ Date	Letter ID	HNO3 Lot #	HCl Lot #	Expiration Date	Pipet ID
10% HNO3 5% HCl	MFM 3/27/24	A	233477	233283	7/31/24	M37
		B				
		C				
		D				
		E				
		F				
		G				
		H				
		I				
		J				
		K				
		L				
		M				
		N				
		O				
		P				
		Q				
		R				
		S				
		T				
		U				
		V				
		W				
		X				
		Y				
		Z				

ICP Calibration Standard 6

Standard is prepared every 6 months or as necessary

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 2	Ag	230301	100	5.00	500	1.00
	Cr		100			1.00
	Mn		150			1.50
	Ni		400			4.00
	Zn		200			2.00
Cal Std 3	Al	233055	2000	5.00		20.00
	Ba		2000			20.00
	Be		50			0.50
	Co		500			5.00
	Cu		250			2.50
	Fe		1000			10.00
	V		500			5.00
Cal Std 4	As	231798	100	10.00		2.00
	Cd		50			1.00
	Pb		50			1.00
	Se		50			1.00
	Tl		100			2.00
	Ca	230305	10000	2.50		50.00
	Mg	230307	10000	2.50		50.00
	K	233452	10000	2.50		50.00
	Na	230308	10000	2.50		50.00
	Sb	230313	1000	5.00		10.00
	Sn	234660	1000	5.00		10.00
	B	233693	1000	5.00		10.00
	Mo	233720	1000	2.50		5.00
	Ti	230316	1000	2.50		5.00
	Sr	230310	1000	2.50		5.00
	Si	234659	~~1000~~ 10000	~~25.00~~ 2.50		50.00

Matrix	Analyst/ Date	Letter ID	HNO3 Lot #	HCl Lot #	Expiration Date	Pipet ID
16% HNO3 5% HCl	NM 5/13/24	A	233477	233283	11/2/24	M38
2% HNO3 5% HCl	NM 5/28/24	B	233477	233283	11/2/24	M38
		C				
		D				
		E				
		F				
		G				
		H				
		I				
		J				
		K				
		L				
		M				
		N				
		O				
		P				
		Q				
		R				
		S				
		T				
		U				
		V				
		W				
		X				
		Y				
		Z				

ICP HLCCV2 (Standard is prepared every 6 months or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 2	AG	230301	100	~~2.00~~	~~100~~	2.00
	CR		100	4.00	200	Below
	MN		150			Below
	NI		400			8.00
	ZN		200			4.00
Cal Std 3	AL	233055	2000	~~2.00~~		Below
	BA		2000	4.00		40.0
	BE		50			1.00
	CO, V		500			10.0
	CU		250			5.00
	FE		1000			Below
Cal Std 4	AS, TL	231798	100	~~4.00~~		4.00
	CD, SE		50	8.00		2.00
	PB		50			Below
Single Metals	B	233693	1000	~~1.00~~	2.00	10.0
	MO	233~~00~~20	1000	~~1.00~~	2.00	10.0
	TI	230316	1000	~~1.00~~	2.00	10.0
	SR	230310	1000	~~1.00~~	2.00	10.0
	CA	230305	10000	~~2.50~~	5.00	250
	MG	230307	10000	~~5.00~~	10.00	500
	NA	230308	10000	~~2.00~~	4.00	~~150~~ 200
	CR	230312	1000	~~0.800~~	1.60	10.0
	FE	230306	10000	~~0.300~~	0.600	50
	AL	233887	10000	~~4.60~~	9.20	500
	MN	233718	1000	~~0.700~~	1.40	10.00
	PB	233694	1000	~~0.800~~	1.60	10.0
	K	233452	10000	~~1.50~~	3.00	150

Analyst/ Date	Letter ID	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date 10/23/24	Pipet ID
MFM 4/23/24	A	2332477 2%	233283 5%	~~5/23/24~~	M36 /M38
MFM 4/23/24	B	2334477 10%	233283 5%	~~5/23/24~~	M36 /M38
	C				
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				

ICP HLCCV3 (Standard is prepared every 6 months or as necessary)

Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst / Date	Letter ID	Nitric Acid Lot #	HCL Lot #	Expiration Date	Pipet ID
CA	230305	10,000	~~2.000~~ 4.000	~~100~~ 200	200.00	2% HNO_3 5% HNO_3	MFM 4/24/24	A	233477	233283	10/24/24	M36 M38
CU	230454	1000	~~0.400~~ 0.800		4.00	10% HNO_3 5% HCl	NM 5/16/24	B	233477	233283	11/2/24	M40 M38
FE	230306	10,000	~~0.400~~ 0.800		40.00			C				
K	233452	10,000	~~1.000~~ 2.000		100.00			D				
TL	233695	1000	~~0.300~~ 0.600		3.00			E				
NA	230308	10,000	~~1.500~~ 3.000		150.00			F				
MG	230307	10,000	~~4.000~~ 8.000		400.00			G				
								H				
								I				
								J				
								K				
								L				
								M				
								N				
								O				
								P				
								Q				
								R				
								S				
								T				
								U				

ICP MRL (Standard is prepared every 6 months or as needed)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 1	CA	233425	5000	0.200	1000	1.00
	MG		5000			1.00
	K		5000			1.00
	NA		5000			1.00
Cal Std 2	AG	230301	100	0.100		0.0100
	CR		100			0.0100
	MN		150			0.0150
	NI		400			0.0400
	ZN		200			0.0200
Cal Std 3	AL	233055	2000	0.100		0.200
	BA		2000			0.200
	BE		50			0.0050
	CO		500			0.0500
	CU		250			0.0250
	FE		1000			0.100
	V		500			0.0500
Cal Std 4	AS	231798	100	0.200		0.0200
	CD		50			0.0100
	PB		50			0.0100
	SE		50			0.0100
	TL		100			0.0200
Single Metals	B	233693	1000	0.200		0.200
	MO	233720	1000	0.025		0.0250
	SN	231915	1000	0.500		0.500
	TI	230316	1000	0.050		0.0500
	SB	230313	1000	0.060		0.0600
	SR	230310	1000	0.100		0.100
	P	—	1000	0.100		0.100

Analyst/ Date	Letter ID	Nitric Acid Lot# / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
MFM 3/27/24	A	233477 10%	233283 5%	9/27/24	M36 M37
MFM 3/27/24	B	233477 2%	233283 5%	9/27/24	M37 M40
NM 5/16/24	C	233477 10%	233283 5%	11/2/24	M37 M40
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				
	BB				

ICP ICSA STANDARD (Standard is prepared every 6 months or as necessary)

Element	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Int. A Sol'n	233727	Multi	50	1000	Multi
AL		5000			250
CA		5000			250
FE		2000			100
MG		5000			250

Analyst/ Date	ID Letter	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
MFM 3/8/24	A	233283 ↔	~~233477~~ 233477	9/8/24	dispo
MFM 4/19/24	B	233477 10%	233283 5%	10/19/24	dispo
	C				
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				

ICP ICSAB STANDARD (Standard is prepared every 6 months or as necessary)

Element	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Int. A Sol'n	233727	Multi	~~25~~ 50	~~500~~ 1000	Multi
AL		5000			250
CA		5000			250
FE		2000			100
MG		5000			250
Int. B Sol'n	233912	Multi	~~5~~ 10		Multi
AG		20			0.200
BA		50			0.500
BE		50			0.500
CD		100			1.00
CO		50			0.500
CR		50			0.500
CU		50			0.500
MN		50			0.500
NI		100			1.00
PB		5			0.0500
V		50			0.500
ZN		100			1.00
AS		10			0.100
SB		60			0.600
SE		5			0.0500
TL		10			0.100

Analyst/ Date	ID Letter	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
MFM 3/1/24	A	233477 10%	233283 5%	8/30/24	dispo
MFM 3/8/24	B	233477 2%	233283 5%	9/8/24	dispo
NM 5/6/24	C	233477 10%	233283 5%	11/6/24	dispo
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				

ICP Internal Standard Solution

Standard is prepared every 6 months or as necessary

(Added In-line)

Metal	ALS Lot #	Conc. (ppm)	Vol (mls)	Final Vol (mls)	Final Conc. (ppm)
Y	226709	10000	2.00	2000	10.0
Cs	226847	10000	2		10.0

Matrix	Analyst/ Date	Letter ID	HNO3 Lot #	HCl Lot #	Expiration Date	Pipet ID
2% HNO3/ 5% HCl	MFM 3/27/24	**A**	233477	233283	6/30/24	M36
	MFM 3/27/24	**B**	233477	233283	6/30/24	M36
	MFM 4/15/24	**C**	233477	233283	6/30/24	M36
	MFM 4/15/24	**D**	233477	233283	6/30/24	M36
	MFM 4/26/24	**E**	233477	233283	6/30/24	M40
	MFM 4/26/24	**F**	233477	233283	6/30/24	M40
	MFM 5/8/24	**G**	233477	233283	6/30/24	M40
	MFM 5/8/24	**H**	233477	233283	6/30/24	M40
	NM 5/28/24	**I**	233477	233283	6/30/24	M40
	NM 5/28/24	**J**	233477	233283	6/30/24	M40
		K				
		L				
		M				
		N				
		O				
		P				
		Q				
		R				
		S				
		T				
		U				
		V				
		W				
		X				
		Y				
		Z				

Frequency:

Pipettes: 3 trials for both bias and precision DOD Projects - Daily before use at each volume of use, or if more than 3 volumes of use, a high, medium, and low. Non-DOD: Quarterly at high, medium, and low.	**Calculations:** %Recovery = Mean/Nominal Volume*100 %RSD = Stdev/Volume*100
Repeaters, Dispensers, and Repipettors: Quarterly - 3 trials for both bias and precision	**Limits:** % Rec: 98-102 for Pipettes and others for dilutions % Recovery: 90-110 (Repeaters, Dispensers, Repipettors not for dilutions) %RSD: ≤1 (Pipets); ≤3 (Repeaters, Dispensers, and Repipettors)

Use a balance and DI for all except Dispensers and Repipettors which contain reagents. For these, dispense into a To Contain Class A grad cylinder and document the Max Volume of the cylinder instead of the Balance ID. Record to 1/10 the graduation of the cylinder.

Date	Init.	Equipment ID	Volume (mL)	Trial #1 (g/mL)	Trial #2 (g/mL)	Trial #3 (g/mL)	Bias %Recovery	Pass/ Fail	Precision %RSD	Pass/ Fail	Recal? Y/N	Balance ID or Class A (TC)	Comments/ Corrective Action
6/4/24	MFM	M36	0.500	0.5019	0.5015	0.5006	100.26̄	P	0.133	P	N	R-19	DOD pipet check
↓	↓	↓	0.600	0.6041	0.6043	0.6009	100.52	P	0.318	P	N	↓	↓
↓	↓	↓	1.000	0.9981	0.9977	0.9969	99.76	P	0.061	P	N	↓	↓
↓	↓	M37	0.0200	0.0199	0.0201	0.0202	100.33	P	0.764	P	N	↓	↓
6/5/24	NM	M37	0.0600	0.0602	0.0603	0.0602	100.39	P	0.096	P	N	R-19	DOD Pipet Check
↓	↓	M40	0.5000	0.5006	0.5020	~~0.5018~~ NM 6/5/24	100.29	P	0.151	P	N	↓	↓
↓	↓	↓	1.0000	0.9979	0.9978	0.9968	99.75	P	0.061	P	N	↓	↓
6/8/24	MFM	M37	0.0100	0.0108	0.0103	0.0103	104.6̄	F	2.89	F	Y	R-19	recal
↓	↓	M40	0.250	0.2530	0.2523	0.2514	100.89	P	0.321	P	N	↓	DOD pipet check
↓	↓	↓	0.500	0.5028	0.5000	0.4979	100.05	P	0.492	P	N	↓	↓
↓	↓	↓	1.000	0.9953	0.9945	0.9935	99.44	P	0.090	P	N	↓	↓
↓	↓	M37 re	0.0100	0.0101	0.0100	0.0101	100.6̄	P	0.577	P	N	↓	↓
6/10/24	NM	M37	0.0600	0.0599	0.0598	0.0597	99.67	P	0.167	P	N	R-19	DOD Pipetcheck
↓	↓	M40	0.5000	0.4981	0.4988	0.4987	99.71	P	0.076	P	N	↓	↓
↓	↓	↓	1.0000	0.9957	0.9955	0.9951	99.54	P	0.031	P	N	↓	↓
6/11/24	MFM	M37	0.0500	0.0503	0.0500	0.0501	100.26̄	P	0.3	P	N	R-18	DOD pipet check
		↓	0.0200	0.0201	0.0201	0.0201	100.5	P	Ø	P	N	↓	↓
		M40	0.500	0.4997	0.5000	0.4987	99.89	P	0.136	P	N	↓	↓
		↓	1.000	0.9999	1.0000	0.9959	99.86	P	0.234	P	N	↓	↓

Sample Dilutions 6010C/6010D/200.7

Final Volume: 6-8mL

Analyst: NM
strument: ICP7

Date 6/10/24
Analysis 6010C

Common Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mLs of Sample	mLs of Diluent	Dilution Factor	mLs of Sample	mLs of Diluent	Dilution Factor	mLs of Sample	mLs of Diluent	Dilution Factor	mLs of Sample	mLs of Diluent	Dilution Factor	mLs of Sample	mLs of Diluent	Dilution Factor
1/2	2%HNO3/ 5%HCL	3	3	**1/2**												
1/3	2%HNO3/ 5%HCL	2	4	**1/3**												
1/4	2%HNO3/ 5%HCL	2	6	**1/4**												
1/5	2%HNO3/ 5%HCL	1.2	4.8	**1/5**												
1/10	2%HNO3/ 5%HCL	0.6	5.4	**1/10**												
1/10	2%HNO3/ 5%HCL	0.8	7.2	**1/10**												
1/20	2%HNO3/ 5%HCL	0.3	5.7	**1/20**												
1/20	2%HNO3/ 5%HCL	0.4	7.6	**1/20**												
1/50	2%HNO3/ 5%HCL	1	4	**1/5**	0.6	5.4	**1/50**									
1/100	2%HNO3/ 5%HCL	0.6	5.4	**1/10**	0.6	5.4	**1/100**									
1/200	2%HNO3/ 5%HCL	1	1	**1/2**	0.6	5.4	**1/20**	0.6	5.4	**1/200**						
1/500	2%HNO3/ 5%HCL	1	4	**1/5**	0.6	5.4	**1/50**	0.6	5.4	**1/500**						
1/1000	2%HNO3/ 5%HCL	0.6	5.4	**1/10**	0.6	5.4	**1/100**	0.6	5.4	**1/1000**						
1/2000	2%HNO3/ 5%HCL	1	1	**1/2**	0.6	5.4	**1/20**	0.6	5.4	**1/200**	0.6	5.4	**1/2000**			
1/5000	2%HNO3/ 5%HCL	1	4	**1/5**	0.6	5.4	**1/50**	0.6	5.4	**1/500**	0.6	5.4	**1/5000**			
1/10000	2%HNO3/ 5%HCL	0.6	5.4	**1/10**	0.6	5.4	**1/100**	0.6	5.4	**1/1000**	0.6	5.4	**1/10000**			
1/20000	2%HNO3/ 5%HCL	1	1	**1/2**	0.6	5.4	**1/20**	0.6	5.4	**1/200**	0.6	5.4	**1/2000**	0.6	5.4	**1/20000**

Special Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mLs of Sample	mLs of Diluent	Dilution Factor	mLs of Sample	mLs of Diluent	Dilution Factor	mLs of Sample	mLs of Diluent	Dilution Factor	mLs of Sample	mLs of Diluent	Dilution Factor	mLs of Sample	mLs of Diluent	Dilution Factor

Metals Data Cover Sheet

Run Date: 6/12/2024

Data File: 061224A-ICP6

Primary Reviewer: N. Mansen

Secondary Reviewer: M. McMahon

LIMS Runs:	LIMS Preps:	
844074	439600,439601	CCV5
844075	439481	CCV5
844076	439823	T2
844077	439839	CCV5
844078	439709	T2

Comments:
N/A

ICP-6 Run Log

Serial number: MY15340001

Analyst: NM Date: 6/12/24 Data File: 061224A-ICP6

	Prep Date	Lot #
MRL	5/16/24	M8440120C
ICSA	4/19/24	M8440133B
ICSAB	5/6/24	M8440143C
Int. Std	6/11/24	M87500057A
HLCCV3	5/16/24	M8440098B

	Prep Date	Lot #
Cal Std 1	3/27/24	M87500002A
Cal Std 2	4/100 calc, 3/50 calc, 4/10 calc, 5/5 calc	
Cal Std 3/ HLCCV1	5/13/24	M87500013A
ICV/CCV6	6/12/24	M87500070B
HLCCV2	4/23/24	M8440078B

~~(Cal Std 4 is a 1/5 and Cal Std 3 is a 1/100 dilution of Cal Std 5)~~ NM 6/12/24

Blank Prep - Daily	NHO3	HCl
Lot	235024	233283

Pipet Used	DOD Pipet Verification	~~IEC Date~~ Filter Lot #
M37, M40	-	233250

1:1	PBW-439600	1:31	PBW-439823	2:1	PBS-439839 F	2:18	PBT-439709
1:2	LCSW-439600	1:32	LCSW-439823	2:2	LCSS-439839 F	2:19	LCST-439709
1:3	R2404674-006 50X	1:33	DLCSW-439823	2:3	R2404865-003	2:20	RQ2406448-01
1:4	R2404674-009 50X	1:34	R2404848-001	2:4	R2404867-003	2:21	R2404735-001
1:5	R2404674-009L 250X	1:35	R2404848-002	2:5	R2404867-004	2:22	R2404735-001S
1:6	PBW-439601	1:36	R2404848-003	2:6	R2404920-001	2:23	R2404735-001SD
1:7	LCSW-439601	1:37	R2404848-004	2:7	R2404980-001	2:24	R2404735-001A
1:8	R2404782-002 10X	1:38	R2404848-005	2:8	R2404980-002 F	2:25	R2404735-001L 5X
1:9	R2404782-002S 10X	1:39	R2404912-001	2:9	R2404980-003 F	S1:8	Continuing Calibration Verification1
1:10	R2404782-002SD 10X	1:40	R2405000-001	2:10	R2404980-004 F	S1:9	Continuing Calibration Blank1
S1:6	Continuing Calibration Verification	S1:6	Continuing Calibration Verification	S1:8	Continuing Calibration Verification1	S1:3	Contract Required Detection Limit
S1:7	Continuing Calibration Blank	S1:7	Continuing Calibration Blank	S1:9	Continuing Calibration Blank1	S1:4	Interference Check Solution A
1:11	R2404782-002A 10X	1:41	R2405005-001	2:11	R2404980-005	S1:5	Interference Check Solution AB
1:12	R2404782-002L 50X	1:42	R2405027-001	2:12	R2404980-006	S1:8	Continuing Calibration Verification1
1:13	R2404782-006 10X	1:43	R2405081-001	2:13	R2404980-006S	S1:9	Continuing Calibration Blank1
1:14	R2404782-007 10X	1:44	R2405081-002	2:14	R2404980-006SD		
1:15	R2404782-009 10X	1:45	R2405081-003	2:15	R2404980-006A		
1:16	R2404782-011 10X	1:46	R2405081-004	2:16	R2404980-006L 5X		
1:17	R2404782-012 10X	1:47	R2405081-004L 5X	2:17	R2405041-001 F		
1:18	R2404782-013 10X	1:48	R2405081-001 10X	S1:8	Continuing Calibration Verification1		
1:19	R2404782-014 10X	1:49	R2405081-002 10X	S1:9	Continuing Calibration Blank1		
1:20	R2404782-015 10X	1:50	R2405081-003 10X	S1:3	Contract Required Detection Limit		
S1:6	Continuing Calibration Verification	S1:6	Continuing Calibration Verification	S1:4	Interference Check Solution A		
S1:7	Continuing Calibration Blank	S1:7	Continuing Calibration Blank	S1:5	Interference Check Solution AB		
1:21	PBS-439481	1:51	R2405081-004 10X	S1:8	Continuing Calibration Verification1		
1:22	LCSS-439481	S1:6	Continuing Calibration Verification	S1:9	Continuing Calibration Blank1		
1:23	R2404731-001 100X	S1:7	Continuing Calibration Blank				
1:24	R2404731-001S 100X	S1:3	Contract Required Detection Limit				
1:25	R2404731-001SD 100X	S1:4	Interference Check Solution A				
1:26	R2404731-001A 100X	S1:5	Interference Check Solution AB				
1:27	R2404731-001L 500X	S1:8	Continuing Calibration Verification1				
1:28	R2404731-002 100X	S1:9	Continuing Calibration Blank1				
1:29	R2404750-001						
1:30	R2404750-002 10X						
S1:6	Continuing Calibration Verification						
S1:7	Continuing Calibration Blank						
S1:3	Contract Required Detection Limit						
S1:4	Interference Check Solution A						
S1:5	Interference Check Solution AB						
S1:21	HLCCV2						
S1:22	HLCCV3						
S1:19	HLCCV1						
S1:6	Continuing Calibration Verification						
S1:7	Continuing Calibration Blank						

NM 6/12/24

Agilent Technologies

Path: I:\ACQUDATA\ICP-5100\ICP Expert\My Results\061224A-ICP6.esws
Date created: 6/12/2024 4:57:06 PM
Instrument used: MY15340001
Software Version : 7.4.1.10449 Firmware Version : 3585
Notes: NM 6/12/24

Detailed Results

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 17:55:19	Blank	Ag (328.068 nm)	N/A	0.0000 (ppm)	-84.9738
6/12/2024 17:55:19	Blank	Al (237.312 nm)	N/A	0.0000 (ppm)	73.8529
6/12/2024 17:55:19	Blank	As (188.980 nm)	N/A	0.0000 (ppm)	2.1557
6/12/2024 17:55:19	Blank	B (249.772 nm)	N/A	0.0000 (ppm)	83.6229
6/12/2024 17:55:19	Blank	Ba (230.424 nm)	N/A	0.0000 (ppm)	3.9705
6/12/2024 17:55:19	Blank	Be (313.107 nm)	N/A	0.0000 (ppm)	-354.9766
6/12/2024 17:55:19	Blank	Ca (317.933 nm)	N/A	0.0000 (ppm)	2182.5226
6/12/2024 17:55:19	Blank	Cd (214.439 nm)	N/A	0.0000 (ppm)	6.7190
6/12/2024 17:55:19	Blank	Co (230.786 nm)	N/A	0.0000 (ppm)	-13.6955
6/12/2024 17:55:19	Blank	Cr (267.716 nm)	N/A	0.0000 (ppm)	66.2986
6/12/2024 17:55:19	Blank	Cu (327.395 nm)	N/A	0.0000 (ppm)	2.3527
6/12/2024 17:55:19	Blank	Fe (234.350 nm)	N/A	0.0000 (ppm)	45.0130
6/12/2024 17:55:19	Blank	K (766.491 nm)	N/A	0.0000 (ppm)	-32.6440
6/12/2024 17:55:19	Blank	Mg (279.078 nm)	N/A	0.0000 (ppm)	10.1998
6/12/2024 17:55:19	Blank	Mn (257.610 nm)	N/A	0.0000 (ppm)	7.2599
6/12/2024 17:55:19	Blank	Mo (202.032 nm)	N/A	0.0000 (ppm)	1.0026
6/12/2024 17:55:19	Blank	Na (588.995 nm)	N/A	0.0000 (ppm)	-24098.5887
6/12/2024 17:55:19	Blank	Ni (230.299 nm)	N/A	0.0000 (ppm)	22.1190
6/12/2024 17:55:19	Blank	Pb (220.353 nm)	N/A	0.0000 (ppm)	2.3435
6/12/2024 17:55:19	Blank	Sb (217.582 nm)	N/A	0.0000 (ppm)	-2.2982
6/12/2024 17:55:19	Blank	Se (196.026 nm)	N/A	0.0000 (ppm)	1.7632
6/12/2024 17:55:19	Blank	Sn (189.925 nm)	N/A	0.0000 (ppm)	2.4822
6/12/2024 17:55:19	Blank	Sr (216.596 nm)	N/A	0.0000 (ppm)	16.9710
6/12/2024 17:55:19	Blank	Ti (336.122 nm)	N/A	0.0000 (ppm)	-177.2850
6/12/2024 17:55:19	Blank	Tl (190.794 nm)	N/A	0.0000 (ppm)	-0.2443
6/12/2024 17:55:19	Blank	V (292.401 nm)	N/A	0.0000 (ppm)	31.4688
6/12/2024 17:55:19	Blank	Y (360.074 nm)	0.00	1.00 (Ratio)	462627.58
6/12/2024 17:55:19	Blank	Y_R (360.074 nm)	0.00	1.00 (Ratio)	464009.92
6/12/2024 17:55:19	Blank	Zn (213.857 nm)	N/A	0.0000 (ppm)	1.5140
6/12/2024 17:58:34	Standard 1	Ag (328.068 nm)	N/A		-98.3137
6/12/2024 17:58:34	Standard 1	Al (237.312 nm)	N/A	0.1000 (ppm)	196.3241
6/12/2024 17:58:34	Standard 1	As (188.980 nm)	N/A	0.0100 (ppm)	7.6979
6/12/2024 17:58:34	Standard 1	B (249.772 nm)	N/A		97.6785
6/12/2024 17:58:34	Standard 1	Ba (230.424 nm)	N/A	0.0200 (ppm)	539.2012
6/12/2024 17:58:34	Standard 1	Be (313.107 nm)	N/A	0.0030 (ppm)	3603.1934
6/12/2024 17:58:34	Standard 1	Ca (317.933 nm)	N/A		2219.1161
6/12/2024 17:58:34	Standard 1	Cd (214.439 nm)	N/A	0.0050 (ppm)	139.1994
6/12/2024 17:58:34	Standard 1	Co (230.786 nm)	N/A		-13.2726
6/12/2024 17:58:34	Standard 1	Cr (267.716 nm)	N/A		123.4916
6/12/2024 17:58:34	Standard 1	Cu (327.395 nm)	N/A	0.0100 (ppm)	346.5224

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 17:58:34	Standard 1	Fe (234.350 nm)	N/A		100.6711
6/12/2024 17:58:34	Standard 1	K (766.491 nm)	N/A		-32.0538
6/12/2024 17:58:34	Standard 1	Mg (279.078 nm)	N/A		10.1864
6/12/2024 17:58:34	Standard 1	Mn (257.610 nm)	N/A	0.0100 (ppm)	2185.4443
6/12/2024 17:58:34	Standard 1	Mo (202.032 nm)	N/A	0.0250 (ppm)	104.1643
6/12/2024 17:58:34	Standard 1	Na (588.995 nm)	N/A		-24298.3705
6/12/2024 17:58:34	Standard 1	Ni (230.299 nm)	N/A		18.2506
6/12/2024 17:58:34	Standard 1	Pb (220.353 nm)	N/A	0.0050 (ppm)	14.4756
6/12/2024 17:58:34	Standard 1	Sb (217.582 nm)	N/A	0.0600 (ppm)	49.7152
6/12/2024 17:58:34	Standard 1	Se (196.026 nm)	N/A		5.8236
6/12/2024 17:58:34	Standard 1	Sn (189.925 nm)	N/A		-2.3208
6/12/2024 17:58:34	Standard 1	Sr (216.596 nm)	N/A		16.0943
6/12/2024 17:58:34	Standard 1	Ti (336.122 nm)	N/A		-521.6418
6/12/2024 17:58:34	Standard 1	Tl (190.794 nm)	N/A	0.0100 (ppm)	3.0354
6/12/2024 17:58:34	Standard 1	V (292.401 nm)	N/A		35.5877
6/12/2024 17:58:34	Standard 1	Y (360.074 nm)	0.06	0.99 (Ratio)	457331.18
6/12/2024 17:58:34	Standard 1	Y_R (360.074 nm)	0.06	0.99 (Ratio)	458635.74
6/12/2024 17:58:34	Standard 1	Zn (213.857 nm)	N/A		-8.0227
6/12/2024 18:01:49	Standard 2	Ag (328.068 nm)	N/A	0.0100 (ppm)	391.1805
6/12/2024 18:01:49	Standard 2	Al (237.312 nm)	N/A	0.2000 (ppm)	310.3082
6/12/2024 18:01:49	Standard 2	As (188.980 nm)	N/A	0.0200 (ppm)	19.1754
6/12/2024 18:01:49	Standard 2	B (249.772 nm)	N/A	0.1000 (ppm)	3360.6687
6/12/2024 18:01:49	Standard 2	Ba (230.424 nm)	N/A	0.2000 (ppm)	5410.1662
6/12/2024 18:01:49	Standard 2	Be (313.107 nm)	N/A	0.0050 (ppm)	6481.0775
6/12/2024 18:01:49	Standard 2	Ca (317.933 nm)	N/A	0.5000 (ppm)	20801.1898
6/12/2024 18:01:49	Standard 2	Cd (214.439 nm)	N/A	0.0100 (ppm)	260.5559
6/12/2024 18:01:49	Standard 2	Co (230.786 nm)	N/A	0.0500 (ppm)	478.0195
6/12/2024 18:01:49	Standard 2	Cr (267.716 nm)	N/A	0.0100 (ppm)	353.7773
6/12/2024 18:01:49	Standard 2	Cu (327.395 nm)	N/A	0.0250 (ppm)	848.3205
6/12/2024 18:01:49	Standard 2	Fe (234.350 nm)	N/A	0.1000 (ppm)	722.8326
6/12/2024 18:01:49	Standard 2	K (766.491 nm)	N/A	0.5000 (ppm)	1042.1687
6/12/2024 18:01:49	Standard 2	Mg (279.078 nm)	N/A	0.5000 (ppm)	1237.0897
6/12/2024 18:01:49	Standard 2	Mn (257.610 nm)	N/A	0.0150 (ppm)	3243.1377
6/12/2024 18:01:49	Standard 2	Mo (202.032 nm)	N/A	0.0500 (ppm)	205.2635
6/12/2024 18:01:49	Standard 2	Na (588.995 nm)	N/A	0.5000 (ppm)	-9477.6465
6/12/2024 18:01:49	Standard 2	Ni (230.299 nm)	N/A	0.0400 (ppm)	367.8415
6/12/2024 18:01:49	Standard 2	Pb (220.353 nm)	N/A	0.0100 (ppm)	25.9024
6/12/2024 18:01:49	Standard 2	Sb (217.582 nm)	N/A	0.1000 (ppm)	81.4974
6/12/2024 18:01:49	Standard 2	Se (196.026 nm)	N/A	0.0100 (ppm)	5.5359
6/12/2024 18:01:49	Standard 2	Sn (189.925 nm)	N/A	0.1000 (ppm)	92.9095
6/12/2024 18:01:49	Standard 2	Sr (216.596 nm)	N/A	0.0500 (ppm)	467.9036
6/12/2024 18:01:49	Standard 2	Ti (336.122 nm)	N/A	0.0500 (ppm)	6525.1704
6/12/2024 18:01:49	Standard 2	Tl (190.794 nm)	N/A	0.0200 (ppm)	7.8490
6/12/2024 18:01:49	Standard 2	V (292.401 nm)	N/A	0.0500 (ppm)	1226.3403
6/12/2024 18:01:49	Standard 2	Y (360.074 nm)	0.14	0.99 (Ratio)	458541.36
6/12/2024 18:01:49	Standard 2	Y_R (360.074 nm)	0.14	0.99 (Ratio)	459821.06
6/12/2024 18:01:49	Standard 2	Zn (213.857 nm)	N/A	0.0200 (ppm)	577.0795
6/12/2024 18:05:04	Standard 3	Ag (328.068 nm)	N/A	0.0200 (ppm)	878.9170
6/12/2024 18:05:04	Standard 3	Al (237.312 nm)	N/A	0.4000 (ppm)	553.8551
6/12/2024 18:05:04	Standard 3	As (188.980 nm)	N/A	0.0400 (ppm)	38.1653
6/12/2024 18:05:04	Standard 3	B (249.772 nm)	N/A	0.2000 (ppm)	6670.1399

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 18:05:04	Standard 3	Ba (230.424 nm)	N/A	0.4000 (ppm)	10799.1952
6/12/2024 18:05:04	Standard 3	Be (313.107 nm)	N/A	0.0100 (ppm)	13384.9537
6/12/2024 18:05:04	Standard 3	Ca (317.933 nm)	N/A	1.0000 (ppm)	39561.1632
6/12/2024 18:05:04	Standard 3	Cd (214.439 nm)	N/A	0.0200 (ppm)	521.4109
6/12/2024 18:05:04	Standard 3	Co (230.786 nm)	N/A	0.1000 (ppm)	969.6666
6/12/2024 18:05:04	Standard 3	Cr (267.716 nm)	N/A	0.0200 (ppm)	642.1856
6/12/2024 18:05:04	Standard 3	Cu (327.395 nm)	N/A	0.0500 (ppm)	1713.5146
6/12/2024 18:05:04	Standard 3	Fe (234.350 nm)	N/A	0.2000 (ppm)	1402.5280
6/12/2024 18:05:04	Standard 3	K (766.491 nm)	N/A	1.0000 (ppm)	2191.2828
6/12/2024 18:05:04	Standard 3	Mg (279.078 nm)	N/A	1.0000 (ppm)	2470.9325
6/12/2024 18:05:04	Standard 3	Mn (257.610 nm)	N/A	0.0300 (ppm)	6439.8110
6/12/2024 18:05:04	Standard 3	Mo (202.032 nm)	N/A	0.1000 (ppm)	415.4872
6/12/2024 18:05:04	Standard 3	Na (588.995 nm)	N/A	1.0000 (ppm)	5716.4946
6/12/2024 18:05:04	Standard 3	Ni (230.299 nm)	N/A	0.0800 (ppm)	716.0079
6/12/2024 18:05:04	Standard 3	Pb (220.353 nm)	N/A	0.0200 (ppm)	50.7197
6/12/2024 18:05:04	Standard 3	Sb (217.582 nm)	N/A	0.2000 (ppm)	161.0599
6/12/2024 18:05:04	Standard 3	Se (196.026 nm)	N/A	0.0200 (ppm)	14.3045
6/12/2024 18:05:04	Standard 3	Sn (189.925 nm)	N/A	0.2000 (ppm)	184.4745
6/12/2024 18:05:04	Standard 3	Sr (216.596 nm)	N/A	0.1000 (ppm)	916.3581
6/12/2024 18:05:04	Standard 3	Ti (336.122 nm)	N/A	0.1000 (ppm)	13622.8350
6/12/2024 18:05:04	Standard 3	Tl (190.794 nm)	N/A	0.0400 (ppm)	17.8933
6/12/2024 18:05:04	Standard 3	V (292.401 nm)	N/A	0.1000 (ppm)	2399.8510
6/12/2024 18:05:04	Standard 3	Y (360.074 nm)	0.10	1.00 (Ratio)	462365.51
6/12/2024 18:05:04	Standard 3	Y_R (360.074 nm)	0.10	1.00 (Ratio)	463604.50
6/12/2024 18:05:04	Standard 3	Zn (213.857 nm)	N/A	0.0400 (ppm)	1180.4688
6/12/2024 18:08:19	Standard 4	Ag (328.068 nm)	N/A	0.1000 (ppm)	4871.1291
6/12/2024 18:08:19	Standard 4	Al (237.312 nm)	N/A	2.0000 (ppm)	2660.8170
6/12/2024 18:08:19	Standard 4	As (188.980 nm)	N/A	0.2000 (ppm)	198.3320
6/12/2024 18:08:19	Standard 4	B (249.772 nm)	N/A	1.0000 (ppm)	34275.7740
6/12/2024 18:08:19	Standard 4	Ba (230.424 nm)	N/A	2.0000 (ppm)	55242.9185
6/12/2024 18:08:19	Standard 4	Be (313.107 nm)	N/A	0.0500 (ppm)	70393.0438
6/12/2024 18:08:19	Standard 4	Ca (317.933 nm)	N/A	5.0000 (ppm)	193183.0175
6/12/2024 18:08:19	Standard 4	Cd (214.439 nm)	N/A	0.1000 (ppm)	2595.3420
6/12/2024 18:08:19	Standard 4	Co (230.786 nm)	N/A	0.5000 (ppm)	5009.1192
6/12/2024 18:08:19	Standard 4	Cr (267.716 nm)	N/A	0.1000 (ppm)	3008.5985
6/12/2024 18:08:19	Standard 4	Cu (327.395 nm)	N/A	0.2500 (ppm)	8915.3510
6/12/2024 18:08:19	Standard 4	Fe (234.350 nm)	N/A	1.0000 (ppm)	7032.5955
6/12/2024 18:08:19	Standard 4	K (766.491 nm)	N/A	5.0000 (ppm)	11501.8256
6/12/2024 18:08:19	Standard 4	Mg (279.078 nm)	N/A	5.0000 (ppm)	12554.6087
6/12/2024 18:08:19	Standard 4	Mn (257.610 nm)	N/A	0.1500 (ppm)	32830.0498
6/12/2024 18:08:19	Standard 4	Mo (202.032 nm)	N/A	0.5000 (ppm)	2176.3428
6/12/2024 18:08:19	Standard 4	Na (588.995 nm)	N/A	5.0000 (ppm)	129152.1346
6/12/2024 18:08:19	Standard 4	Ni (230.299 nm)	N/A	0.4000 (ppm)	3608.3072
6/12/2024 18:08:19	Standard 4	Pb (220.353 nm)	N/A	0.1000 (ppm)	238.7041
6/12/2024 18:08:19	Standard 4	Sb (217.582 nm)	N/A	1.0000 (ppm)	841.2172
6/12/2024 18:08:19	Standard 4	Se (196.026 nm)	N/A	0.1000 (ppm)	68.9430
6/12/2024 18:08:19	Standard 4	Sn (189.925 nm)	N/A	1.0000 (ppm)	961.2489
6/12/2024 18:08:19	Standard 4	Sr (216.596 nm)	N/A	0.5000 (ppm)	4641.6495
6/12/2024 18:08:19	Standard 4	Ti (336.122 nm)	N/A	0.5000 (ppm)	71919.8583
6/12/2024 18:08:19	Standard 4	Tl (190.794 nm)	N/A	0.2000 (ppm)	100.4048
6/12/2024 18:08:19	Standard 4	V (292.401 nm)	N/A	0.5000 (ppm)	12259.7394

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 18:08:19	Standard 4	Y (360.074 nm)	0.35	0.99 (Ratio)	457575.19
6/12/2024 18:08:19	Standard 4	Y_R (360.074 nm)	0.35	0.99 (Ratio)	458788.45
6/12/2024 18:08:19	Standard 4	Zn (213.857 nm)	N/A	0.2000 (ppm)	6105.0154
6/12/2024 18:11:34	Standard 5	Ag (328.068 nm)	N/A	0.2000 (ppm)	9592.9603
6/12/2024 18:11:34	Standard 5	Al (237.312 nm)	N/A	4.0000 (ppm)	5151.2100
6/12/2024 18:11:34	Standard 5	As (188.980 nm)	N/A	0.4000 (ppm)	384.0649
6/12/2024 18:11:34	Standard 5	B (249.772 nm)	N/A	2.0000 (ppm)	66923.0410
6/12/2024 18:11:34	Standard 5	Ba (230.424 nm)	N/A	4.0000 (ppm)	107069.2342
6/12/2024 18:11:34	Standard 5	Be (313.107 nm)	N/A	0.1000 (ppm)	137110.6730
6/12/2024 18:11:34	Standard 5	Ca (317.933 nm)	N/A	10.0000 (ppm)	371610.5315
6/12/2024 18:11:34	Standard 5	Cd (214.439 nm)	N/A	0.2000 (ppm)	5029.3187
6/12/2024 18:11:34	Standard 5	Co (230.786 nm)	N/A	1.0000 (ppm)	9640.5065
6/12/2024 18:11:34	Standard 5	Cr (267.716 nm)	N/A	0.2000 (ppm)	5727.4179
6/12/2024 18:11:34	Standard 5	Cu (327.395 nm)	N/A	0.5000 (ppm)	17470.8685
6/12/2024 18:11:34	Standard 5	Fe (234.350 nm)	N/A	2.0000 (ppm)	13583.3213
6/12/2024 18:11:34	Standard 5	K (766.491 nm)	N/A	10.0000 (ppm)	22547.4495
6/12/2024 18:11:34	Standard 5	Mg (279.078 nm)	N/A	10.0000 (ppm)	24304.2334
6/12/2024 18:11:34	Standard 5	Mn (257.610 nm)	N/A	0.3000 (ppm)	63366.5641
6/12/2024 18:11:34	Standard 5	Mo (202.032 nm)	N/A	1.0000 (ppm)	4265.7098
6/12/2024 18:11:34	Standard 5	Na (588.995 nm)	N/A	10.0000 (ppm)	272658.0196
6/12/2024 18:11:34	Standard 5	Ni (230.299 nm)	N/A	0.8000 (ppm)	6911.1498
6/12/2024 18:11:34	Standard 5	Pb (220.353 nm)	N/A	0.2000 (ppm)	459.6394
6/12/2024 18:11:34	Standard 5	Sb (217.582 nm)	N/A	2.0000 (ppm)	1636.8030
6/12/2024 18:11:34	Standard 5	Se (196.026 nm)	N/A	0.2000 (ppm)	136.7885
6/12/2024 18:11:34	Standard 5	Sn (189.925 nm)	N/A	2.0000 (ppm)	1849.1331
6/12/2024 18:11:34	Standard 5	Sr (216.596 nm)	N/A	1.0000 (ppm)	8956.4039
6/12/2024 18:11:34	Standard 5	Ti (336.122 nm)	N/A	1.0000 (ppm)	140695.4840
6/12/2024 18:11:34	Standard 5	Tl (190.794 nm)	N/A	0.4000 (ppm)	190.0321
6/12/2024 18:11:34	Standard 5	V (292.401 nm)	N/A	1.0000 (ppm)	23778.5424
6/12/2024 18:11:34	Standard 5	Y (360.074 nm)	0.16	0.99 (Ratio)	458675.92
6/12/2024 18:11:34	Standard 5	Y_R (360.074 nm)	0.16	0.99 (Ratio)	459919.73
6/12/2024 18:11:34	Standard 5	Zn (213.857 nm)	N/A	0.4000 (ppm)	11841.3576
6/12/2024 18:14:48	Standard 6	Ag (328.068 nm)	N/A	1.0000 (ppm)	50466.8599
6/12/2024 18:14:48	Standard 6	Al (237.312 nm)	N/A	20.0000 (ppm)	26243.3670
6/12/2024 18:14:48	Standard 6	As (188.980 nm)	N/A	2.0000 (ppm)	1955.7677
6/12/2024 18:14:48	Standard 6	B (249.772 nm)	N/A	10.0000 (ppm)	344195.1396
6/12/2024 18:14:48	Standard 6	Ba (230.424 nm)	N/A	20.0000 (ppm)	535779.2061
6/12/2024 18:14:48	Standard 6	Be (313.107 nm)	N/A	0.5000 (ppm)	694767.6565
6/12/2024 18:14:48	Standard 6	Ca (317.933 nm)	N/A	50.0000 (ppm)	1845653.6581
6/12/2024 18:14:48	Standard 6	Cd (214.439 nm)	N/A	1.0000 (ppm)	25315.3843
6/12/2024 18:14:48	Standard 6	Co (230.786 nm)	N/A	5.0000 (ppm)	48444.7780
6/12/2024 18:14:48	Standard 6	Cr (267.716 nm)	N/A	1.0000 (ppm)	28591.7702
6/12/2024 18:14:48	Standard 6	Cu (327.395 nm)	N/A	2.5000 (ppm)	92887.8906
6/12/2024 18:14:48	Standard 6	Fe (234.350 nm)	N/A	10.0000 (ppm)	68016.0569
6/12/2024 18:14:48	Standard 6	K (766.491 nm)	N/A	50.0000 (ppm)	118822.2359
6/12/2024 18:14:48	Standard 6	Mg (279.078 nm)	N/A	50.0000 (ppm)	121575.0364
6/12/2024 18:14:48	Standard 6	Mn (257.610 nm)	N/A	1.5000 (ppm)	315971.4816
6/12/2024 18:14:48	Standard 6	Mo (202.032 nm)	N/A	5.0000 (ppm)	21953.5336
6/12/2024 18:14:48	Standard 6	Na (588.995 nm)	N/A	50.0000 (ppm)	1453175.0480
6/12/2024 18:14:48	Standard 6	Ni (230.299 nm)	N/A	4.0000 (ppm)	34789.7338
6/12/2024 18:14:48	Standard 6	Pb (220.353 nm)	N/A	1.0000 (ppm)	2308.9340

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 18:14:48	Standard 6	Sb (217.582 nm)	N/A	10.0000 (ppm)	8354.1823
6/12/2024 18:14:48	Standard 6	Se (196.026 nm)	N/A	1.0000 (ppm)	686.0484
6/12/2024 18:14:48	Standard 6	Sn (189.925 nm)	N/A	10.0000 (ppm)	9185.2936
6/12/2024 18:14:48	Standard 6	Sr (216.596 nm)	N/A	5.0000 (ppm)	44504.2526
6/12/2024 18:14:48	Standard 6	Ti (336.122 nm)	N/A	5.0000 (ppm)	716648.9430
6/12/2024 18:14:48	Standard 6	Tl (190.794 nm)	N/A	2.0000 (ppm)	992.7725
6/12/2024 18:14:48	Standard 6	V (292.401 nm)	N/A	5.0000 (ppm)	120850.4118
6/12/2024 18:14:48	Standard 6	Y (360.074 nm)	0.49	0.96 (Ratio)	446397.20
6/12/2024 18:14:48	Standard 6	Y_R (360.074 nm)	0.49	0.96 (Ratio)	447538.50
6/12/2024 18:14:48	Standard 6	Zn (213.857 nm)	N/A	2.0000 (ppm)	60787.5765
6/12/2024 18:18:32	Initial Calibration Verification	Ag (328.068 nm)	0.18	0.5128 (ppm)	25249.4305
6/12/2024 18:18:32	Initial Calibration Verification	Al (237.312 nm)	0.44	10.2846 (ppm)	13093.7538
6/12/2024 18:18:32	Initial Calibration Verification	As (188.980 nm)	0.94	0.9904 (ppm)	958.7206
6/12/2024 18:18:32	Initial Calibration Verification	B (249.772 nm)	0.38	2.5639 (ppm)	86033.0069
6/12/2024 18:18:32	Initial Calibration Verification	Ba (230.424 nm)	0.42	10.1226 (ppm)	271074.6211
6/12/2024 18:18:32	Initial Calibration Verification	Be (313.107 nm)	0.45	0.2504 (ppm)	341312.6725
6/12/2024 18:18:32	Initial Calibration Verification	Ca (317.933 nm)	0.46	25.5820 (ppm)	953333.7228
6/12/2024 18:18:32	Initial Calibration Verification	Cd (214.439 nm)	0.16	0.4997 (ppm)	12691.2766
6/12/2024 18:18:32	Initial Calibration Verification	Co (230.786 nm)	0.30	2.5181 (ppm)	24737.4883
6/12/2024 18:18:32	Initial Calibration Verification	Cr (267.716 nm)	0.26	0.5130 (ppm)	14774.0928
6/12/2024 18:18:32	Initial Calibration Verification	Cu (327.395 nm)	0.32	1.2987 (ppm)	45596.3334
6/12/2024 18:18:32	Initial Calibration Verification	Fe (234.350 nm)	0.25	4.9810 (ppm)	34480.2234
6/12/2024 18:18:32	Initial Calibration Verification	K (766.491 nm)	0.30	25.3812 (ppm)	57435.3174
6/12/2024 18:18:32	Initial Calibration Verification	Mg (279.078 nm)	0.16	25.2827 (ppm)	62225.1564
6/12/2024 18:18:32	Initial Calibration Verification	Mn (257.610 nm)	0.45	0.7352 (ppm)	157056.5537
6/12/2024 18:18:32	Initial Calibration Verification	Mo (202.032 nm)	0.77	2.5884 (ppm)	11234.4225
6/12/2024 18:18:32	Initial Calibration Verification	Na (588.995 nm)	0.14	25.4284 (ppm)	726996.6684
6/12/2024 18:18:32	Initial Calibration Verification	Ni (230.299 nm)	0.30	2.0682 (ppm)	18018.9836
6/12/2024 18:18:32	Initial Calibration Verification	Pb (220.353 nm)	0.61	0.5020 (ppm)	1167.8466
6/12/2024 18:18:32	Initial Calibration Verification	Sb (217.582 nm)	0.28	4.8636 (ppm)	4054.2597
6/12/2024 18:18:32	Initial Calibration Verification	Se (196.026 nm)	0.55	0.4912 (ppm)	337.8732
6/12/2024 18:18:32	Initial Calibration Verification	Sn (189.925 nm)	0.21	5.0921 (ppm)	4710.3810
6/12/2024 18:18:32	Initial Calibration Verification	Sr (216.596 nm)	0.64	2.4763 (ppm)	22500.0865
6/12/2024 18:18:32	Initial Calibration Verification	Ti (336.122 nm)	0.13	2.6244 (ppm)	369598.5587
6/12/2024 18:18:32	Initial Calibration Verification	Tl (190.794 nm)	0.83	0.9928 (ppm)	492.8894
6/12/2024 18:18:32	Initial Calibration Verification	V (292.401 nm)	0.50	2.5908 (ppm)	61725.5828
6/12/2024 18:18:32	Initial Calibration Verification	Y (360.074 nm)	0.37	0.98 (Ratio)	451244.68
6/12/2024 18:18:32	Initial Calibration Verification	Y_R (360.074 nm)	0.35	0.97 (Ratio)	452267.73
6/12/2024 18:18:32	Initial Calibration Verification	Zn (213.857 nm)	0.27	0.9899 (ppm)	30046.4754
6/12/2024 18:23:34	Initial Calibration Blank	Ag (328.068 nm)	12.99	0.0004 (ppm)	-62.8180
6/12/2024 18:23:34	Initial Calibration Blank	Al (237.312 nm)	83.08	0.0046 (ppm)	79.6413
6/12/2024 18:23:34	Initial Calibration Blank	As (188.980 nm)	> 100.00	0.0013 u (ppm)	3.4220
6/12/2024 18:23:34	Initial Calibration Blank	B (249.772 nm)	4.46	0.0017 (ppm)	141.4194
6/12/2024 18:23:34	Initial Calibration Blank	Ba (230.424 nm)	> 100.00	0.0000 u (ppm)	2.6735
6/12/2024 18:23:34	Initial Calibration Blank	Be (313.107 nm)	61.89	0.0000 (ppm)	-335.4212
6/12/2024 18:23:34	Initial Calibration Blank	Ca (317.933 nm)	30.48	0.0008 (ppm)	2212.7076
6/12/2024 18:23:34	Initial Calibration Blank	Cd (214.439 nm)	> 100.00	0.0001 (ppm)	9.8759
6/12/2024 18:23:34	Initial Calibration Blank	Co (230.786 nm)	> 100.00	0.0002 (ppm)	-11.4405
6/12/2024 18:23:34	Initial Calibration Blank	Cr (267.716 nm)	> 100.00	0.0000 u (ppm)	66.1053
6/12/2024 18:23:34	Initial Calibration Blank	Cu (327.395 nm)	> 100.00	-0.0001 u (ppm)	-1.4432
6/12/2024 18:23:34	Initial Calibration Blank	Fe (234.350 nm)	15.05	0.0015 (ppm)	55.4015

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 18:23:34	Initial Calibration Blank	K (766.491 nm)	13.42	0.0340 (ppm)	44.2440
6/12/2024 18:23:34	Initial Calibration Blank	Mg (279.078 nm)	> 100.00	0.0003 u (ppm)	10.8557
6/12/2024 18:23:34	Initial Calibration Blank	Mn (257.610 nm)	> 100.00	0.0000 u (ppm)	9.1465
6/12/2024 18:23:34	Initial Calibration Blank	Mo (202.032 nm)	14.67	0.0066 (ppm)	29.4778
6/12/2024 18:23:34	Initial Calibration Blank	Na (588.995 nm)	17.18	0.0054 (ppm)	-23937.8783
6/12/2024 18:23:34	Initial Calibration Blank	Ni (230.299 nm)	66.51	0.0005 (ppm)	26.0833
6/12/2024 18:23:34	Initial Calibration Blank	Pb (220.353 nm)	> 100.00	-0.0009 u (ppm)	0.2140
6/12/2024 18:23:34	Initial Calibration Blank	Sb (217.582 nm)	11.42	0.0256 (ppm)	19.0932
6/12/2024 18:23:34	Initial Calibration Blank	Se (196.026 nm)	> 100.00	-0.0005 u (ppm)	1.4318
6/12/2024 18:23:34	Initial Calibration Blank	Sn (189.925 nm)	> 100.00	-0.0017 u (ppm)	0.8820
6/12/2024 18:23:34	Initial Calibration Blank	Sr (216.596 nm)	> 100.00	0.0002 u (ppm)	18.8197
6/12/2024 18:23:34	Initial Calibration Blank	Ti (336.122 nm)	11.54	0.0025 (ppm)	175.1509
6/12/2024 18:23:34	Initial Calibration Blank	Tl (190.794 nm)	> 100.00	-0.0010 u (ppm)	-0.7276
6/12/2024 18:23:34	Initial Calibration Blank	V (292.401 nm)	> 100.00	0.0005 (ppm)	44.0725
6/12/2024 18:23:34	Initial Calibration Blank	Y (360.074 nm)	0.11	1.01 (Ratio)	467562.80
6/12/2024 18:23:34	Initial Calibration Blank	Y_R (360.074 nm)	0.11	1.01 (Ratio)	468338.59
6/12/2024 18:23:34	Initial Calibration Blank	Zn (213.857 nm)	49.04	0.0001 (ppm)	5.7450
6/12/2024 18:26:48	Contract Required Detection Limit	Ag (328.068 nm)	2.72	0.0092 (ppm)	369.1302
6/12/2024 18:26:48	Contract Required Detection Limit	Al (237.312 nm)	2.10	0.1908 (ppm)	315.4264
6/12/2024 18:26:48	Contract Required Detection Limit	As (188.980 nm)	10.63	0.0172 (ppm)	18.7578
6/12/2024 18:26:48	Contract Required Detection Limit	B (249.772 nm)	0.16	0.2052 (ppm)	6963.6383
6/12/2024 18:26:48	Contract Required Detection Limit	Ba (230.424 nm)	0.38	0.2038 (ppm)	5461.1117
6/12/2024 18:26:48	Contract Required Detection Limit	Be (313.107 nm)	0.46	0.0052 (ppm)	6687.2427
6/12/2024 18:26:48	Contract Required Detection Limit	Ca (317.933 nm)	0.24	1.0506 (ppm)	41245.4901
6/12/2024 18:26:48	Contract Required Detection Limit	Cd (214.439 nm)	0.88	0.0103 (ppm)	268.3628
6/12/2024 18:26:48	Contract Required Detection Limit	Co (230.786 nm)	1.49	0.0499 (ppm)	476.3404
6/12/2024 18:26:48	Contract Required Detection Limit	Cr (267.716 nm)	0.65	0.0090 (ppm)	325.2048
6/12/2024 18:26:48	Contract Required Detection Limit	Cu (327.395 nm)	2.58	0.0249 (ppm)	877.7680
6/12/2024 18:26:48	Contract Required Detection Limit	Fe (234.350 nm)	0.95	0.1052 (ppm)	771.9931
6/12/2024 18:26:48	Contract Required Detection Limit	K (766.491 nm)	2.49	1.0226 (ppm)	2282.6748
6/12/2024 18:26:48	Contract Required Detection Limit	Mg (279.078 nm)	0.10	1.0276 (ppm)	2538.8441
6/12/2024 18:26:48	Contract Required Detection Limit	Mn (257.610 nm)	0.50	0.0140 (ppm)	3000.3692
6/12/2024 18:26:48	Contract Required Detection Limit	Mo (202.032 nm)	3.39	0.0264 (ppm)	115.6543
6/12/2024 18:26:48	Contract Required Detection Limit	Na (588.995 nm)	0.71	1.0467 (ppm)	6817.4226
6/12/2024 18:26:48	Contract Required Detection Limit	Ni (230.299 nm)	3.48	0.0357 (ppm)	332.9749
6/12/2024 18:26:48	Contract Required Detection Limit	Pb (220.353 nm)	5.82	0.0108 (ppm)	27.3850
6/12/2024 18:26:48	Contract Required Detection Limit	Sb (217.582 nm)	6.96	0.0764 R (ppm) 127%	61.4588 R
6/12/2024 18:26:48	Contract Required Detection Limit	Se (196.026 nm)	48.16	0.0098 (ppm)	8.4525
6/12/2024 18:26:48	Contract Required Detection Limit	Sn (189.925 nm)	0.74	0.5127 (ppm)	476.5365
6/12/2024 18:26:48	Contract Required Detection Limit	Sr (216.596 nm)	0.78	0.0983 (ppm)	909.0187
6/12/2024 18:26:48	Contract Required Detection Limit	Ti (336.122 nm)	0.10	0.0502 (ppm)	6890.0829
6/12/2024 18:26:48	Contract Required Detection Limit	Tl (190.794 nm)	10.38	0.0235 (ppm)	11.4201
6/12/2024 18:26:48	Contract Required Detection Limit	V (292.401 nm)	1.18	0.0517 (ppm)	1263.0881
6/12/2024 18:26:48	Contract Required Detection Limit	Y (360.074 nm)	0.44	1.00 (Ratio)	463054.97
6/12/2024 18:26:48	Contract Required Detection Limit	Y_R (360.074 nm)	0.44	1.00 (Ratio)	463663.63
6/12/2024 18:26:48	Contract Required Detection Limit	Zn (213.857 nm)	0.64	0.0175 (ppm)	531.4586
6/12/2024 18:30:01	Interference Check Solution A	Ag (328.068 nm)	37.34	0.0005 (ppm)	-58.6327
6/12/2024 18:30:01	Interference Check Solution A	Al (237.312 nm)	0.28	265.2157 o (ppm)	335825.5582
6/12/2024 18:30:01	Interference Check Solution A	As (188.980 nm)	94.07	0.0033 (ppm)	5.3812
6/12/2024 18:30:01	Interference Check Solution A	B (249.772 nm)	0.30	0.0785 (ppm)	2716.1355
6/12/2024 18:30:01	Interference Check Solution A	Ba (230.424 nm)	82.23	0.0005 (ppm)	16.9358

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 18:30:01	Interference Check Solution A	Be (313.107 nm)	1.64	0.0002 (ppm)	-143.2201
6/12/2024 18:30:01	Interference Check Solution A	Ca (317.933 nm)	0.49	243.5621 o (ppm)	9057955.6859
6/12/2024 18:30:01	Interference Check Solution A	Cd (214.439 nm)	55.04	-0.0004 u (ppm)	-3.9023
6/12/2024 18:30:01	Interference Check Solution A	Co (230.786 nm)	71.25	-0.0020 u (ppm)	-32.9651
6/12/2024 18:30:01	Interference Check Solution A	Cr (267.716 nm)	16.16	0.0046 (ppm)	198.4783
6/12/2024 18:30:01	Interference Check Solution A	Cu (327.395 nm)	7.87	0.0076 (ppm)	269.0219
6/12/2024 18:30:01	Interference Check Solution A	Fe (234.350 nm)	0.32	95.8485 o (ppm)	662677.0788
6/12/2024 18:30:01	Interference Check Solution A	K (766.491 nm)	5.98	0.0995 (ppm)	192.6216
6/12/2024 18:30:01	Interference Check Solution A	Mg (279.078 nm)	0.19	258.2976 o (ppm)	635621.3733
6/12/2024 18:30:01	Interference Check Solution A	Mn (257.610 nm)	1.39	0.0011 (ppm)	238.2617
6/12/2024 18:30:01	Interference Check Solution A	Mo (202.032 nm)	> 100.00	0.0001 u (ppm)	1.2770
6/12/2024 18:30:01	Interference Check Solution A	Na (588.995 nm)	18.39	-0.0407 u (ppm)	-25300.9992
6/12/2024 18:30:01	Interference Check Solution A	Ni (230.299 nm)	> 100.00	0.0007 u (ppm)	27.9538
6/12/2024 18:30:01	Interference Check Solution A	Pb (220.353 nm)	19.94	-0.0043 u (ppm)	-7.5962
6/12/2024 18:30:01	Interference Check Solution A	Sb (217.582 nm)	> 100.00	-0.0028 u (ppm)	-4.6219
6/12/2024 18:30:01	Interference Check Solution A	Se (196.026 nm)	> 100.00	0.0021 u (ppm)	3.1890
6/12/2024 18:30:01	Interference Check Solution A	Sn (189.925 nm)	12.61	-0.0021 u (ppm)	0.5328
6/12/2024 18:30:01	Interference Check Solution A	Sr (216.596 nm)	3.47	0.0146 (ppm)	149.1236
6/12/2024 18:30:01	Interference Check Solution A	Ti (336.122 nm)	29.60	0.0011 (ppm)	-26.6768
6/12/2024 18:30:01	Interference Check Solution A	Tl (190.794 nm)	> 100.00	-0.0002 u (ppm)	-0.3502
6/12/2024 18:30:01	Interference Check Solution A	V (292.401 nm)	2.42	0.0039 (ppm)	125.2026
6/12/2024 18:30:01	Interference Check Solution A	Y (360.074 nm)	0.23	0.92 (Ratio)	425359.92
6/12/2024 18:30:01	Interference Check Solution A	Y_R (360.074 nm)	0.23	0.92 (Ratio)	426101.76
6/12/2024 18:30:01	Interference Check Solution A	Zn (213.857 nm)	1.30	0.0102 (ppm)	311.7111
6/12/2024 18:33:15	Interference Check Solution AB	Ag (328.068 nm)	0.27	0.2063 (ppm)	10108.3023
6/12/2024 18:33:15	Interference Check Solution AB	Al (237.312 nm)	0.19	264.3775 o (ppm)	334764.4932
6/12/2024 18:33:15	Interference Check Solution AB	As (188.980 nm)	4.64	0.0998 (ppm)	98.5732
6/12/2024 18:33:15	Interference Check Solution AB	B (249.772 nm)	0.30	0.0757 (ppm)	2620.9689
6/12/2024 18:33:15	Interference Check Solution AB	Ba (230.424 nm)	0.15	0.5337 (ppm)	14295.6415
6/12/2024 18:33:15	Interference Check Solution AB	Be (313.107 nm)	0.09	0.5237 (ppm)	714144.4933
6/12/2024 18:33:15	Interference Check Solution AB	Ca (317.933 nm)	0.15	244.5452 o (ppm)	9094506.1928
6/12/2024 18:33:15	Interference Check Solution AB	Cd (214.439 nm)	0.22	1.0026 (ppm)	25458.4080
6/12/2024 18:33:15	Interference Check Solution AB	Co (230.786 nm)	0.29	0.5006 (ppm)	4906.9091
6/12/2024 18:33:15	Interference Check Solution AB	Cr (267.716 nm)	0.30	0.5237 (ppm)	15082.9275
6/12/2024 18:33:15	Interference Check Solution AB	Cu (327.395 nm)	0.46	0.5867 (ppm)	20601.3650
6/12/2024 18:33:15	Interference Check Solution AB	Fe (234.350 nm)	0.22	96.0752 o (ppm)	664244.1341
6/12/2024 18:33:15	Interference Check Solution AB	K (766.491 nm)	22.42	0.0849 (ppm)	159.6805
6/12/2024 18:33:15	Interference Check Solution AB	Mg (279.078 nm)	0.29	257.9052 o (ppm)	634655.7802
6/12/2024 18:33:15	Interference Check Solution AB	Mn (257.610 nm)	0.21	0.5011 (ppm)	107037.0790
6/12/2024 18:33:15	Interference Check Solution AB	Mo (202.032 nm)	> 100.00	-0.0004 u (ppm)	-0.6557
6/12/2024 18:33:15	Interference Check Solution AB	Na (588.995 nm)	15.80	-0.0550 u (ppm)	-25722.2869
6/12/2024 18:33:15	Interference Check Solution AB	Ni (230.299 nm)	0.55	1.0190 (ppm)	8889.6282
6/12/2024 18:33:15	Interference Check Solution AB	Pb (220.353 nm)	7.50	0.0465 (ppm)	110.3514
6/12/2024 18:33:15	Interference Check Solution AB	Sb (217.582 nm)	1.15	0.6195 (ppm)	514.4398
6/12/2024 18:33:15	Interference Check Solution AB	Se (196.026 nm)	12.85	0.0459 (ppm)	33.1555
6/12/2024 18:33:15	Interference Check Solution AB	Sn (189.925 nm)	> 100.00	0.0000 u (ppm)	2.5224
6/12/2024 18:33:15	Interference Check Solution AB	Sr (216.596 nm)	9.10	0.0141 (ppm)	144.5819
6/12/2024 18:33:15	Interference Check Solution AB	Ti (336.122 nm)	7.96	0.0008 (ppm)	-70.7756
6/12/2024 18:33:15	Interference Check Solution AB	Tl (190.794 nm)	2.26	0.1016 (ppm)	50.2089
6/12/2024 18:33:15	Interference Check Solution AB	V (292.401 nm)	0.16	0.5455 (ppm)	13020.8968
6/12/2024 18:33:15	Interference Check Solution AB	Y (360.074 nm)	0.39	0.92 (Ratio)	426144.82

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 18:33:15	Interference Check Solution AB	Y_R (360.074 nm)	0.40	0.92 (Ratio)	426709.38
6/12/2024 18:33:15	Interference Check Solution AB	Zn (213.857 nm)	0.20	1.0342 (ppm)	31390.9337
6/12/2024 18:36:28	Continuing Calibration Verification	Ag (328.068 nm)	0.36	0.5159 (ppm)	25403.0920
6/12/2024 18:36:28	Continuing Calibration Verification	Al (237.312 nm)	0.31	10.4101 (ppm)	13252.6021
6/12/2024 18:36:28	Continuing Calibration Verification	As (188.980 nm)	0.88	0.9933 (ppm)	961.4919
6/12/2024 18:36:28	Continuing Calibration Verification	B (249.772 nm)	0.33	2.5878 (ppm)	86833.0532
6/12/2024 18:36:28	Continuing Calibration Verification	Ba (230.424 nm)	0.49	10.1836 (ppm)	272708.4526
6/12/2024 18:36:28	Continuing Calibration Verification	Be (313.107 nm)	0.59	0.2552 (ppm)	347775.3935
6/12/2024 18:36:28	Continuing Calibration Verification	Ca (317.933 nm)	0.15	25.9082 (ppm)	965462.2341
6/12/2024 18:36:28	Continuing Calibration Verification	Cd (214.439 nm)	0.26	0.5010 (ppm)	12725.4679
6/12/2024 18:36:28	Continuing Calibration Verification	Co (230.786 nm)	0.38	2.5209 (ppm)	24764.5658
6/12/2024 18:36:28	Continuing Calibration Verification	Cr (267.716 nm)	0.32	0.5134 (ppm)	14787.6485
6/12/2024 18:36:28	Continuing Calibration Verification	Cu (327.395 nm)	0.33	1.3149 (ppm)	46166.0365
6/12/2024 18:36:28	Continuing Calibration Verification	Fe (234.350 nm)	0.14	5.0468 (ppm)	34935.4880
6/12/2024 18:36:28	Continuing Calibration Verification	K (766.491 nm)	0.23	25.6919 (ppm)	58138.9332
6/12/2024 18:36:28	Continuing Calibration Verification	Mg (279.078 nm)	0.22	25.4877 (ppm)	62729.4909
6/12/2024 18:36:28	Continuing Calibration Verification	Mn (257.610 nm)	0.41	0.7385 (ppm)	157741.1779
6/12/2024 18:36:28	Continuing Calibration Verification	Mo (202.032 nm)	1.10	2.5970 (ppm)	11271.8559
6/12/2024 18:36:28	Continuing Calibration Verification	Na (588.995 nm)	0.48	25.8464 (ppm)	739345.0350
6/12/2024 18:36:28	Continuing Calibration Verification	Ni (230.299 nm)	0.26	2.0916 (ppm)	18222.9332
6/12/2024 18:36:28	Continuing Calibration Verification	Pb (220.353 nm)	1.09	0.5073 (ppm)	1180.1349
6/12/2024 18:36:28	Continuing Calibration Verification	Sb (217.582 nm)	0.39	4.8581 (ppm)	4049.7115
6/12/2024 18:36:28	Continuing Calibration Verification	Se (196.026 nm)	0.39	0.4894 (ppm)	336.6549
6/12/2024 18:36:28	Continuing Calibration Verification	Sn (189.925 nm)	0.39	5.1085 (ppm)	4725.4801
6/12/2024 18:36:28	Continuing Calibration Verification	Sr (216.596 nm)	0.18	2.4798 (ppm)	22531.9859
6/12/2024 18:36:28	Continuing Calibration Verification	Ti (336.122 nm)	0.56	2.6259 (ppm)	369804.3702
6/12/2024 18:36:28	Continuing Calibration Verification	Tl (190.794 nm)	0.52	1.0079 (ppm)	500.3799
6/12/2024 18:36:28	Continuing Calibration Verification	V (292.401 nm)	0.30	2.6231 (ppm)	62495.5947
6/12/2024 18:36:28	Continuing Calibration Verification	Y (360.074 nm)	0.13	0.98 (Ratio)	451860.69
6/12/2024 18:36:28	Continuing Calibration Verification	Y_R (360.074 nm)	0.13	0.97 (Ratio)	452190.09
6/12/2024 18:36:28	Continuing Calibration Verification	Zn (213.857 nm)	0.23	0.9893 (ppm)	30029.0946
6/12/2024 18:39:42	Continuing Calibration Blank	Ag (328.068 nm)	20.02	0.0005 (ppm)	-61.9044
6/12/2024 18:39:42	Continuing Calibration Blank	Al (237.312 nm)	> 100.00	0.0078 u (ppm)	83.7325
6/12/2024 18:39:42	Continuing Calibration Blank	As (188.980 nm)	> 100.00	0.0039 (ppm)	5.9218
6/12/2024 18:39:42	Continuing Calibration Blank	B (249.772 nm)	58.99	0.0009 (ppm)	113.4627
6/12/2024 18:39:42	Continuing Calibration Blank	Ba (230.424 nm)	70.78	0.0002 (ppm)	9.9787
6/12/2024 18:39:42	Continuing Calibration Blank	Be (313.107 nm)	40.62	0.0000 (ppm)	-336.1735
6/12/2024 18:39:42	Continuing Calibration Blank	Ca (317.933 nm)	14.14	-0.0012 u (ppm)	2138.0505
6/12/2024 18:39:42	Continuing Calibration Blank	Cd (214.439 nm)	77.69	0.0003 (ppm)	13.3871
6/12/2024 18:39:42	Continuing Calibration Blank	Co (230.786 nm)	> 100.00	0.0001 u (ppm)	-12.6274
6/12/2024 18:39:42	Continuing Calibration Blank	Cr (267.716 nm)	71.95	-0.0002 u (ppm)	59.9047
6/12/2024 18:39:42	Continuing Calibration Blank	Cu (327.395 nm)	78.86	0.0005 (ppm)	18.4996
6/12/2024 18:39:42	Continuing Calibration Blank	Fe (234.350 nm)	19.19	0.0031 (ppm)	66.2171
6/12/2024 18:39:42	Continuing Calibration Blank	K (766.491 nm)	> 100.00	0.0074 u (ppm)	-15.8607
6/12/2024 18:39:42	Continuing Calibration Blank	Mg (279.078 nm)	> 100.00	-0.0007 u (ppm)	8.3772
6/12/2024 18:39:42	Continuing Calibration Blank	Mn (257.610 nm)	> 100.00	0.0000 u (ppm)	9.4757
6/12/2024 18:39:42	Continuing Calibration Blank	Mo (202.032 nm)	21.66	0.0129 (ppm)	57.1023
6/12/2024 18:39:42	Continuing Calibration Blank	Na (588.995 nm)	55.62	-0.0036 u (ppm)	-24205.2412
6/12/2024 18:39:42	Continuing Calibration Blank	Ni (230.299 nm)	> 100.00	-0.0006 u (ppm)	17.0165
6/12/2024 18:39:42	Continuing Calibration Blank	Pb (220.353 nm)	> 100.00	0.0001 u (ppm)	2.6731
6/12/2024 18:39:42	Continuing Calibration Blank	Sb (217.582 nm)	15.34	0.0405 (ppm)	31.4483

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 18:39:42	Continuing Calibration Blank	Se (196.026 nm)	> 100.00	0.0036 u (ppm)	4.2094
6/12/2024 18:39:42	Continuing Calibration Blank	Sn (189.925 nm)	50.58	-0.0019 u (ppm)	0.6829
6/12/2024 18:39:42	Continuing Calibration Blank	Sr (216.596 nm)	> 100.00	0.0000 u (ppm)	16.5221
6/12/2024 18:39:42	Continuing Calibration Blank	Ti (336.122 nm)	27.90	0.0030 (ppm)	240.7970
6/12/2024 18:39:42	Continuing Calibration Blank	Tl (190.794 nm)	> 100.00	-0.0004 u (ppm)	-0.4534
6/12/2024 18:39:42	Continuing Calibration Blank	V (292.401 nm)	48.33	0.0007 (ppm)	47.1343
6/12/2024 18:39:42	Continuing Calibration Blank	Y (360.074 nm)	0.13	1.01 (Ratio)	468651.41
6/12/2024 18:39:42	Continuing Calibration Blank	Y_R (360.074 nm)	0.13	1.01 (Ratio)	468911.32
6/12/2024 18:39:42	Continuing Calibration Blank	Zn (213.857 nm)	> 100.00	0.0001 u (ppm)	3.5435
6/12/2024 18:42:56	PBW-439600	Ag (328.068 nm)	75.69	0.0003 (ppm)	-69.1793
6/12/2024 18:42:56	PBW-439600	Al (237.312 nm)	26.14	0.0057 (ppm)	81.1056
6/12/2024 18:42:56	PBW-439600	As (188.980 nm)	41.71	-0.0039 u (ppm)	-1.6242
6/12/2024 18:42:56	PBW-439600	B (249.772 nm)	9.08	0.0020 (ppm)	150.5920
6/12/2024 18:42:56	PBW-439600	Ba (230.424 nm)	> 100.00	-0.0001 u (ppm)	1.5106
6/12/2024 18:42:56	PBW-439600	Be (313.107 nm)	71.14	0.0000 (ppm)	-326.4721
6/12/2024 18:42:56	PBW-439600	Ca (317.933 nm)	6.55	0.0051 (ppm)	2372.2913
6/12/2024 18:42:56	PBW-439600	Cd (214.439 nm)	> 100.00	0.0001 u (ppm)	9.0266
6/12/2024 18:42:56	PBW-439600	Co (230.786 nm)	> 100.00	-0.0003 u (ppm)	-16.2059
6/12/2024 18:42:56	PBW-439600	Cr (267.716 nm)	> 100.00	0.0000 u (ppm)	65.1296
6/12/2024 18:42:56	PBW-439600	Cu (327.395 nm)	> 100.00	0.0004 u (ppm)	15.5586
6/12/2024 18:42:56	PBW-439600	Fe (234.350 nm)	5.76	0.0136 (ppm)	138.7830
6/12/2024 18:42:56	PBW-439600	K (766.491 nm)	14.51	0.0212 (ppm)	15.2789
6/12/2024 18:42:56	PBW-439600	Mg (279.078 nm)	> 100.00	0.0002 u (ppm)	10.6986
6/12/2024 18:42:56	PBW-439600	Mn (257.610 nm)	26.54	0.0002 (ppm)	47.5152
6/12/2024 18:42:56	PBW-439600	Mo (202.032 nm)	33.63	0.0024 (ppm)	11.5475
6/12/2024 18:42:56	PBW-439600	Na (588.995 nm)	> 100.00	0.0016 (ppm)	-24052.1437
6/12/2024 18:42:56	PBW-439600	Ni (230.299 nm)	26.82	-0.0018 u (ppm)	6.6087
6/12/2024 18:42:56	PBW-439600	Pb (220.353 nm)	> 100.00	0.0002 u (ppm)	2.7089
6/12/2024 18:42:56	PBW-439600	Sb (217.582 nm)	20.50	0.1117 (ppm)	90.8898
6/12/2024 18:42:56	PBW-439600	Se (196.026 nm)	> 100.00	-0.0001 u (ppm)	1.6719
6/12/2024 18:42:56	PBW-439600	Sn (189.925 nm)	48.44	-0.0040 u (ppm)	-1.1781
6/12/2024 18:42:56	PBW-439600	Sr (216.596 nm)	> 100.00	-0.0001 u (ppm)	16.3106
6/12/2024 18:42:56	PBW-439600	Ti (336.122 nm)	78.21	-0.0003 u (ppm)	-216.7771
6/12/2024 18:42:56	PBW-439600	Tl (190.794 nm)	> 100.00	-0.0024 u (ppm)	-1.4555
6/12/2024 18:42:56	PBW-439600	V (292.401 nm)	65.35	0.0005 (ppm)	44.1466
6/12/2024 18:42:56	PBW-439600	Y (360.074 nm)	0.09	1.03 (Ratio)	474567.94
6/12/2024 18:42:56	PBW-439600	Y_R (360.074 nm)	0.10	1.02 (Ratio)	474731.05
6/12/2024 18:42:56	PBW-439600	Zn (213.857 nm)	> 100.00	0.0001 u (ppm)	5.8915
6/12/2024 18:46:09	LCSW-439600	Ag (328.068 nm)	0.46	0.0501 (ppm)	2392.5585
6/12/2024 18:46:09	LCSW-439600	Al (237.312 nm)	0.34	2.0225 (ppm)	2634.2075
6/12/2024 18:46:09	LCSW-439600	As (188.980 nm)	1.08	0.0437 (ppm)	44.3644
6/12/2024 18:46:09	LCSW-439600	B (249.772 nm)	0.48	1.0147 (ppm)	34100.8794
6/12/2024 18:46:09	LCSW-439600	Ba (230.424 nm)	0.64	2.0004 (ppm)	53572.8866
6/12/2024 18:46:09	LCSW-439600	Be (313.107 nm)	0.48	0.0502 (ppm)	68096.3006
6/12/2024 18:46:09	LCSW-439600	Ca (317.933 nm)	0.56	2.0251 (ppm)	77476.4836
6/12/2024 18:46:09	LCSW-439600	Cd (214.439 nm)	0.60	0.0501 (ppm)	1279.7857
6/12/2024 18:46:09	LCSW-439600	Co (230.786 nm)	0.44	0.4920 (ppm)	4822.4835
6/12/2024 18:46:09	LCSW-439600	Cr (267.716 nm)	0.55	0.1985 (ppm)	5758.6667
6/12/2024 18:46:09	LCSW-439600	Cu (327.395 nm)	0.32	0.2585 (ppm)	9076.9630
6/12/2024 18:46:09	LCSW-439600	Fe (234.350 nm)	0.32	0.9916 (ppm)	6900.6090
6/12/2024 18:46:09	LCSW-439600	K (766.491 nm)	0.68	19.7998 (ppm)	44798.0018

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 18:46:09	LCSW-439600	Mg (279.078 nm)	0.23	1.9609 (ppm)	4835.4221
6/12/2024 18:46:09	LCSW-439600	Mn (257.610 nm)	0.48	0.4795 (ppm)	102423.7199
6/12/2024 18:46:09	LCSW-439600	Mo (202.032 nm)	0.92	0.4872 (ppm)	2115.5037
6/12/2024 18:46:09	LCSW-439600	Na (588.995 nm)	0.63	20.0928 (ppm)	569395.5550
6/12/2024 18:46:09	LCSW-439600	Ni (230.299 nm)	0.35	0.5146 (ppm)	4499.9742
6/12/2024 18:46:09	LCSW-439600	Pb (220.353 nm)	0.82	0.5057 (ppm)	1176.4825
6/12/2024 18:46:09	LCSW-439600	Sb (217.582 nm)	1.32	0.5231 (ppm)	434.0335
6/12/2024 18:46:09	LCSW-439600	Se (196.026 nm)	1.07	0.9731 (ppm)	667.5919
6/12/2024 18:46:09	LCSW-439600	Sn (189.925 nm)	0.64	4.9537 (ppm)	4582.4054
6/12/2024 18:46:09	LCSW-439600	Sr (216.596 nm)	0.46	1.9467 (ppm)	17691.6037
6/12/2024 18:46:09	LCSW-439600	Ti (336.122 nm)	0.22	0.5055 (ppm)	71041.4318
6/12/2024 18:46:09	LCSW-439600	Tl (190.794 nm)	0.17	1.9352 (ppm)	960.9592
6/12/2024 18:46:09	LCSW-439600	V (292.401 nm)	0.64	0.5021 (ppm)	11988.4313
6/12/2024 18:46:09	LCSW-439600	Y (360.074 nm)	0.40	1.01 (Ratio)	466670.64
6/12/2024 18:46:09	LCSW-439600	Y_R (360.074 nm)	0.40	1.01 (Ratio)	466767.65
6/12/2024 18:46:09	LCSW-439600	Zn (213.857 nm)	0.66	0.4898 (ppm)	14867.1623
6/12/2024 18:49:23	R2404674-006 50X	Ag (328.068 nm)	36.95	0.0003 (ppm)	-68.3588
6/12/2024 18:49:23	R2404674-006 50X	Al (237.312 nm)	> 100.00	-0.0005 u (ppm)	73.2523
6/12/2024 18:49:23	R2404674-006 50X	As (188.980 nm)	> 100.00	0.0025 (ppm)	4.5713
6/12/2024 18:49:23	R2404674-006 50X	B (249.772 nm)	4.45	0.0053 (ppm)	260.1002
6/12/2024 18:49:23	R2404674-006 50X	Ba (230.424 nm)	4.83	0.0040 (ppm)	111.5857
6/12/2024 18:49:23	R2404674-006 50X	Be (313.107 nm)	89.16	0.0000 u (ppm)	-338.6120
6/12/2024 18:49:23	R2404674-006 50X	Ca (317.933 nm)	0.19	4.4866 (ppm)	168995.5733
6/12/2024 18:49:23	R2404674-006 50X	Cd (214.439 nm)	> 100.00	0.0001 u (ppm)	8.1721
6/12/2024 18:49:23	R2404674-006 50X	Co (230.786 nm)	> 100.00	0.0003 u (ppm)	-10.7481
6/12/2024 18:49:23	R2404674-006 50X	Cr (267.716 nm)	47.92	-0.0006 u (ppm)	47.6994
6/12/2024 18:49:23	R2404674-006 50X	Cu (327.395 nm)	> 100.00	0.0001 u (ppm)	5.2874
6/12/2024 18:49:23	R2404674-006 50X	Fe (234.350 nm)	0.15	2.3658 (ppm)	16400.8420
6/12/2024 18:49:23	R2404674-006 50X	K (766.491 nm)	47.36	0.0207 (ppm)	14.2121
6/12/2024 18:49:23	R2404674-006 50X	Mg (279.078 nm)	0.34	0.7578 (ppm)	1875.0167
6/12/2024 18:49:23	R2404674-006 50X	Mn (257.610 nm)	0.28	0.9093 (ppm)	194233.4936
6/12/2024 18:49:23	R2404674-006 50X	Mo (202.032 nm)	20.27	0.0059 (ppm)	26.7160
6/12/2024 18:49:23	R2404674-006 50X	Na (588.995 nm)	1.00	0.6611 (ppm)	-4570.0809
6/12/2024 18:49:23	R2404674-006 50X	Ni (230.299 nm)	> 100.00	0.0003 u (ppm)	25.0721
6/12/2024 18:49:23	R2404674-006 50X	Pb (220.353 nm)	> 100.00	-0.0014 u (ppm)	-1.0025
6/12/2024 18:49:23	R2404674-006 50X	Sb (217.582 nm)	17.59	0.0125 (ppm)	8.1131
6/12/2024 18:49:23	R2404674-006 50X	Se (196.026 nm)	29.02	0.0045 (ppm)	4.8232
6/12/2024 18:49:23	R2404674-006 50X	Sn (189.925 nm)	> 100.00	-0.0002 u (ppm)	2.3160
6/12/2024 18:49:23	R2404674-006 50X	Sr (216.596 nm)	6.02	0.0073 (ppm)	83.3410
6/12/2024 18:49:23	R2404674-006 50X	Ti (336.122 nm)	33.29	0.0006 (ppm)	-95.2746
6/12/2024 18:49:23	R2404674-006 50X	Tl (190.794 nm)	> 100.00	-0.0021 u (ppm)	-1.3088
6/12/2024 18:49:23	R2404674-006 50X	V (292.401 nm)	89.03	0.0004 (ppm)	41.1084
6/12/2024 18:49:23	R2404674-006 50X	Y (360.074 nm)	0.38	1.02 (Ratio)	472374.19
6/12/2024 18:49:23	R2404674-006 50X	Y_R (360.074 nm)	0.40	1.02 (Ratio)	472339.74
6/12/2024 18:49:23	R2404674-006 50X	Zn (213.857 nm)	> 100.00	0.0001 u (ppm)	3.9339
6/12/2024 18:52:36	R2404674-009 50X	Ag (328.068 nm)	72.11	0.0002 (ppm)	-75.7852
6/12/2024 18:52:36	R2404674-009 50X	Al (237.312 nm)	40.87	-0.0099 u (ppm)	61.3059
6/12/2024 18:52:36	R2404674-009 50X	As (188.980 nm)	> 100.00	0.0016 u (ppm)	3.7387
6/12/2024 18:52:36	R2404674-009 50X	B (249.772 nm)	7.54	0.0018 (ppm)	144.9301
6/12/2024 18:52:36	R2404674-009 50X	Ba (230.424 nm)	2.77	0.0055 (ppm)	152.2812
6/12/2024 18:52:36	R2404674-009 50X	Be (313.107 nm)	21.20	0.0000 (ppm)	-335.7263

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 18:52:36	R2404674-009 50X	Ca (317.933 nm)	0.32	1.3162 (ppm)	51120.2774
6/12/2024 18:52:36	R2404674-009 50X	Cd (214.439 nm)	> 100.00	-0.0002 u (ppm)	2.4654
6/12/2024 18:52:36	R2404674-009 50X	Co (230.786 nm)	7.76	0.0031 (ppm)	17.1706
6/12/2024 18:52:36	R2404674-009 50X	Cr (267.716 nm)	16.21	-0.0015 u (ppm)	23.8703
6/12/2024 18:52:36	R2404674-009 50X	Cu (327.395 nm)	81.67	0.0004 (ppm)	17.2488
6/12/2024 18:52:36	R2404674-009 50X	Fe (234.350 nm)	0.28	2.4862 (ppm)	17232.8489
6/12/2024 18:52:36	R2404674-009 50X	K (766.491 nm)	67.05	0.0282 (ppm)	31.2014
6/12/2024 18:52:36	R2404674-009 50X	Mg (279.078 nm)	0.77	0.2548 (ppm)	637.1279
6/12/2024 18:52:36	R2404674-009 50X	Mn (257.610 nm)	0.31	1.8341 o (ppm)	391771.9000
6/12/2024 18:52:36	R2404674-009 50X	Mo (202.032 nm)	> 100.00	0.0004 u (ppm)	2.8620
6/12/2024 18:52:36	R2404674-009 50X	Na (588.995 nm)	18.06	0.0126 (ppm)	-23726.6430
6/12/2024 18:52:36	R2404674-009 50X	Ni (230.299 nm)	> 100.00	0.0012 (ppm)	32.8269
6/12/2024 18:52:36	R2404674-009 50X	Pb (220.353 nm)	> 100.00	0.0005 u (ppm)	3.5153
6/12/2024 18:52:36	R2404674-009 50X	Sb (217.582 nm)	69.45	0.0062 (ppm)	2.8348
6/12/2024 18:52:36	R2404674-009 50X	Se (196.026 nm)	> 100.00	0.0043 u (ppm)	4.6930
6/12/2024 18:52:36	R2404674-009 50X	Sn (189.925 nm)	> 100.00	-0.0001 u (ppm)	2.3908
6/12/2024 18:52:36	R2404674-009 50X	Sr (216.596 nm)	9.40	0.0027 (ppm)	41.7320
6/12/2024 18:52:36	R2404674-009 50X	Ti (336.122 nm)	34.69	-0.0001 u (ppm)	-187.2801
6/12/2024 18:52:36	R2404674-009 50X	Tl (190.794 nm)	> 100.00	0.0017 u (ppm)	0.5835
6/12/2024 18:52:36	R2404674-009 50X	V (292.401 nm)	69.07	0.0006 (ppm)	46.4741
6/12/2024 18:52:36	R2404674-009 50X	Y (360.074 nm)	0.27	1.02 (Ratio)	470675.76
6/12/2024 18:52:36	R2404674-009 50X	Y_R (360.074 nm)	0.27	1.01 (Ratio)	470571.82
6/12/2024 18:52:36	R2404674-009 50X	Zn (213.857 nm)	34.15	0.0004 (ppm)	13.6963
6/12/2024 18:55:50	R2404674-009L 250X	Ag (328.068 nm)	77.56	0.0001 (ppm)	-79.1404
6/12/2024 18:55:50	R2404674-009L 250X	Al (237.312 nm)	> 100.00	0.0026 u (ppm)	77.1857
6/12/2024 18:55:50	R2404674-009L 250X	As (188.980 nm)	86.68	-0.0034 u (ppm)	-1.1462
6/12/2024 18:55:50	R2404674-009L 250X	B (249.772 nm)	> 100.00	-0.0001 u (ppm)	80.0679
6/12/2024 18:55:50	R2404674-009L 250X	Ba (230.424 nm)	10.57	0.0008 (ppm)	26.2416
6/12/2024 18:55:50	R2404674-009L 250X	Be (313.107 nm)	> 100.00	0.0000 u (ppm)	-356.8131
6/12/2024 18:55:50	R2404674-009L 250X	Ca (317.933 nm)	0.50	0.2732 (ppm)	12341.0488
6/12/2024 18:55:50	R2404674-009L 250X	Cd (214.439 nm)	> 100.00	0.0000 u (ppm)	7.5682
6/12/2024 18:55:50	R2404674-009L 250X	Co (230.786 nm)	31.93	0.0007 (ppm)	-6.3713
6/12/2024 18:55:50	R2404674-009L 250X	Cr (267.716 nm)	10.76	-0.0007 u (ppm)	46.2051
6/12/2024 18:55:50	R2404674-009L 250X	Cu (327.395 nm)	> 100.00	-0.0002 u (ppm)	-3.1552
6/12/2024 18:55:50	R2404674-009L 250X	Fe (234.350 nm)	0.46	0.5027 (ppm)	3520.1407
6/12/2024 18:55:50	R2404674-009L 250X	K (766.491 nm)	69.06	0.0369 (ppm)	50.8675
6/12/2024 18:55:50	R2404674-009L 250X	Mg (279.078 nm)	5.49	0.0481 (ppm)	128.5546
6/12/2024 18:55:50	R2404674-009L 250X	Mn (257.610 nm)	0.29	0.3707 (ppm)	79199.3638
6/12/2024 18:55:50	R2404674-009L 250X	Mo (202.032 nm)	> 100.00	-0.0003 u (ppm)	-0.1006
6/12/2024 18:55:50	R2404674-009L 250X	Na (588.995 nm)	39.64	-0.0083 u (ppm)	-24344.7107
6/12/2024 18:55:50	R2404674-009L 250X	Ni (230.299 nm)	> 100.00	-0.0004 u (ppm)	18.9907
6/12/2024 18:55:50	R2404674-009L 250X	Pb (220.353 nm)	> 100.00	0.0012 u (ppm)	5.1066
6/12/2024 18:55:50	R2404674-009L 250X	Sb (217.582 nm)	14.73	0.0049 (ppm)	1.7474
6/12/2024 18:55:50	R2404674-009L 250X	Se (196.026 nm)	87.36	-0.0056 u (ppm)	-2.0559
6/12/2024 18:55:50	R2404674-009L 250X	Sn (189.925 nm)	> 100.00	-0.0012 u (ppm)	1.3965
6/12/2024 18:55:50	R2404674-009L 250X	Sr (216.596 nm)	71.78	0.0007 (ppm)	22.9945
6/12/2024 18:55:50	R2404674-009L 250X	Ti (336.122 nm)	49.39	-0.0002 u (ppm)	-205.7476
6/12/2024 18:55:50	R2404674-009L 250X	Tl (190.794 nm)	> 100.00	-0.0033 u (ppm)	-1.8643
6/12/2024 18:55:50	R2404674-009L 250X	V (292.401 nm)	81.97	0.0003 (ppm)	38.8820
6/12/2024 18:55:50	R2404674-009L 250X	Y (360.074 nm)	0.25	1.02 (Ratio)	471180.82
6/12/2024 18:55:50	R2404674-009L 250X	Y_R (360.074 nm)	0.26	1.01 (Ratio)	470951.40

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 18:55:50	R2404674-009L 250X	Zn (213.857 nm)	> 100.00	0.0000 u (ppm)	1.4120
6/12/2024 18:59:03	PBW-439601	Ag (328.068 nm)	99.90	0.0002 (ppm)	-72.8472
6/12/2024 18:59:03	PBW-439601	Al (237.312 nm)	94.38	0.0094 (ppm)	85.7576
6/12/2024 18:59:03	PBW-439601	As (188.980 nm)	> 100.00	-0.0025 u (ppm)	-0.3027
6/12/2024 18:59:03	PBW-439601	B (249.772 nm)	67.37	0.0007 (ppm)	108.4288
6/12/2024 18:59:03	PBW-439601	Ba (230.424 nm)	> 100.00	0.0001 u (ppm)	5.4563
6/12/2024 18:59:03	PBW-439601	Be (313.107 nm)	21.24	0.0000 (ppm)	-331.9668
6/12/2024 18:59:03	PBW-439601	Ca (317.933 nm)	12.36	0.0018 (ppm)	2247.9752
6/12/2024 18:59:03	PBW-439601	Cd (214.439 nm)	> 100.00	0.0001 u (ppm)	8.8932
6/12/2024 18:59:03	PBW-439601	Co (230.786 nm)	> 100.00	-0.0001 u (ppm)	-14.6659
6/12/2024 18:59:03	PBW-439601	Cr (267.716 nm)	> 100.00	-0.0001 u (ppm)	62.8067
6/12/2024 18:59:03	PBW-439601	Cu (327.395 nm)	57.95	0.0003 (ppm)	12.4125
6/12/2024 18:59:03	PBW-439601	Fe (234.350 nm)	40.66	0.0024 (ppm)	61.4160
6/12/2024 18:59:03	PBW-439601	K (766.491 nm)	> 100.00	-0.0044 u (ppm)	-42.7153
6/12/2024 18:59:03	PBW-439601	Mg (279.078 nm)	45.83	-0.0027 u (ppm)	3.5233
6/12/2024 18:59:03	PBW-439601	Mn (257.610 nm)	28.19	0.0001 (ppm)	27.4511
6/12/2024 18:59:03	PBW-439601	Mo (202.032 nm)	> 100.00	0.0004 u (ppm)	2.5983
6/12/2024 18:59:03	PBW-439601	Na (588.995 nm)	9.60	-0.0190 u (ppm)	-24658.8638
6/12/2024 18:59:03	PBW-439601	Ni (230.299 nm)	45.13	-0.0009 u (ppm)	13.9554
6/12/2024 18:59:03	PBW-439601	Pb (220.353 nm)	> 100.00	0.0005 u (ppm)	3.4211
6/12/2024 18:59:03	PBW-439601	Sb (217.582 nm)	45.59	0.0134 (ppm)	8.8474
6/12/2024 18:59:03	PBW-439601	Se (196.026 nm)	> 100.00	0.0040 u (ppm)	4.5340
6/12/2024 18:59:03	PBW-439601	Sn (189.925 nm)	60.40	-0.0027 u (ppm)	-0.0162
6/12/2024 18:59:03	PBW-439601	Sr (216.596 nm)	> 100.00	-0.0006 u (ppm)	11.2231
6/12/2024 18:59:03	PBW-439601	Ti (336.122 nm)	5.32	-0.0014 u (ppm)	-369.7042
6/12/2024 18:59:03	PBW-439601	Tl (190.794 nm)	> 100.00	-0.0039 u (ppm)	-2.1645
6/12/2024 18:59:03	PBW-439601	V (292.401 nm)	> 100.00	0.0002 u (ppm)	37.4187
6/12/2024 18:59:03	PBW-439601	Y (360.074 nm)	0.25	1.03 (Ratio)	474862.19
6/12/2024 18:59:03	PBW-439601	Y_R (360.074 nm)	0.25	1.02 (Ratio)	474551.77
6/12/2024 18:59:03	PBW-439601	Zn (213.857 nm)	> 100.00	0.0000 u (ppm)	0.7801
6/12/2024 19:02:17	LCSW-439601	Ag (328.068 nm)	0.98	0.0500 (ppm)	2384.6940
6/12/2024 19:02:17	LCSW-439601	Al (237.312 nm)	0.41	2.0262 (ppm)	2638.9490
6/12/2024 19:02:17	LCSW-439601	As (188.980 nm)	11.99	0.0358 (ppm)	36.7428
6/12/2024 19:02:17	LCSW-439601	B (249.772 nm)	0.14	1.0194 (ppm)	34258.4305
6/12/2024 19:02:17	LCSW-439601	Ba (230.424 nm)	0.51	2.0026 (ppm)	53632.3487
6/12/2024 19:02:17	LCSW-439601	Be (313.107 nm)	0.19	0.0504 (ppm)	68422.9630
6/12/2024 19:02:17	LCSW-439601	Ca (317.933 nm)	0.13	2.0226 (ppm)	77385.2223
6/12/2024 19:02:17	LCSW-439601	Cd (214.439 nm)	1.01	0.0500 (ppm)	1275.5572
6/12/2024 19:02:17	LCSW-439601	Co (230.786 nm)	0.19	0.4915 (ppm)	4817.3266
6/12/2024 19:02:17	LCSW-439601	Cr (267.716 nm)	0.17	0.1972 (ppm)	5719.7468
6/12/2024 19:02:17	LCSW-439601	Cu (327.395 nm)	0.26	0.2595 (ppm)	9113.6073
6/12/2024 19:02:17	LCSW-439601	Fe (234.350 nm)	0.10	0.9908 (ppm)	6894.4229
6/12/2024 19:02:17	LCSW-439601	K (766.491 nm)	0.13	19.9137 (ppm)	45055.9293
6/12/2024 19:02:17	LCSW-439601	Mg (279.078 nm)	0.15	1.9621 (ppm)	4838.5186
6/12/2024 19:02:17	LCSW-439601	Mn (257.610 nm)	0.09	0.4803 (ppm)	102604.2345
6/12/2024 19:02:17	LCSW-439601	Mo (202.032 nm)	1.49	0.4847 (ppm)	2104.4706
6/12/2024 19:02:17	LCSW-439601	Na (588.995 nm)	0.40	20.1860 (ppm)	572151.0393
6/12/2024 19:02:17	LCSW-439601	Ni (230.299 nm)	0.26	0.5157 (ppm)	4509.5615
6/12/2024 19:02:17	LCSW-439601	Pb (220.353 nm)	0.29	0.5058 (ppm)	1176.6371
6/12/2024 19:02:17	LCSW-439601	Sb (217.582 nm)	0.97	0.4936 (ppm)	409.3725
6/12/2024 19:02:17	LCSW-439601	Se (196.026 nm)	0.75	0.9641 (ppm)	661.4412

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 19:02:17	LCSW-439601	Sn (189.925 nm)	0.20	4.9893 (ppm)	4615.2698
6/12/2024 19:02:17	LCSW-439601	Sr (216.596 nm)	0.15	1.9443 (ppm)	17669.7832
6/12/2024 19:02:17	LCSW-439601	Ti (336.122 nm)	0.39	0.5059 (ppm)	71098.7743
6/12/2024 19:02:17	LCSW-439601	Tl (190.794 nm)	0.28	1.9392 (ppm)	962.9206
6/12/2024 19:02:17	LCSW-439601	V (292.401 nm)	0.13	0.5033 (ppm)	12015.9216
6/12/2024 19:02:17	LCSW-439601	Y (360.074 nm)	0.25	1.01 (Ratio)	467919.38
6/12/2024 19:02:17	LCSW-439601	Y_R (360.074 nm)	0.25	1.01 (Ratio)	467562.88
6/12/2024 19:02:17	LCSW-439601	Zn (213.857 nm)	0.44	0.4872 (ppm)	14789.5950
6/12/2024 19:05:30	R2404782-002 10X	Ag (328.068 nm)	46.21	0.0004 (ppm)	-67.3255
6/12/2024 19:05:30	R2404782-002 10X	Al (237.312 nm)	22.93	0.0261 (ppm)	106.9298
6/12/2024 19:05:30	R2404782-002 10X	As (188.980 nm)	> 100.00	0.0006 u (ppm)	2.7201
6/12/2024 19:05:30	R2404782-002 10X	B (249.772 nm)	0.72	0.0213 (ppm)	797.0060
6/12/2024 19:05:30	R2404782-002 10X	Ba (230.424 nm)	31.79	0.0011 (ppm)	32.1700
6/12/2024 19:05:30	R2404782-002 10X	Be (313.107 nm)	> 100.00	0.0000 u (ppm)	-344.4507
6/12/2024 19:05:30	R2404782-002 10X	Ca (317.933 nm)	0.21	27.7620 (ppm)	1034390.4046
6/12/2024 19:05:30	R2404782-002 10X	Cd (214.439 nm)	> 100.00	0.0000 u (ppm)	6.3963
6/12/2024 19:05:30	R2404782-002 10X	Co (230.786 nm)	> 100.00	0.0000 u (ppm)	-13.8648
6/12/2024 19:05:30	R2404782-002 10X	Cr (267.716 nm)	> 100.00	0.0001 u (ppm)	69.4042
6/12/2024 19:05:30	R2404782-002 10X	Cu (327.395 nm)	87.37	-0.0003 u (ppm)	-8.6703
6/12/2024 19:05:30	R2404782-002 10X	Fe (234.350 nm)	1.42	0.0178 (ppm)	167.9720
6/12/2024 19:05:30	R2404782-002 10X	K (766.491 nm)	3.30	0.2950 (ppm)	635.2820
6/12/2024 19:05:30	R2404782-002 10X	Mg (279.078 nm)	0.22	10.7178 (ppm)	26384.1527
6/12/2024 19:05:30	R2404782-002 10X	Mn (257.610 nm)	1.41	0.0014 (ppm)	299.4490
6/12/2024 19:05:30	R2404782-002 10X	Mo (202.032 nm)	31.10	0.0051 (ppm)	23.2253
6/12/2024 19:05:30	R2404782-002 10X	Na (588.995 nm)	0.19	2.4595 (ppm)	48550.4293
6/12/2024 19:05:30	R2404782-002 10X	Ni (230.299 nm)	84.69	0.0007 (ppm)	28.0284
6/12/2024 19:05:30	R2404782-002 10X	Pb (220.353 nm)	> 100.00	-0.0002 u (ppm)	1.9497
6/12/2024 19:05:30	R2404782-002 10X	Sb (217.582 nm)	53.13	0.0069 (ppm)	3.4298
6/12/2024 19:05:30	R2404782-002 10X	Se (196.026 nm)	36.00	0.0095 (ppm)	8.2302
6/12/2024 19:05:30	R2404782-002 10X	Sn (189.925 nm)	23.31	-0.0019 u (ppm)	0.7334
6/12/2024 19:05:30	R2404782-002 10X	Sr (216.596 nm)	0.45	1.6390 (ppm)	14898.1247
6/12/2024 19:05:30	R2404782-002 10X	Ti (336.122 nm)	25.22	0.0010 (ppm)	-42.1297
6/12/2024 19:05:30	R2404782-002 10X	Tl (190.794 nm)	> 100.00	0.0000 u (ppm)	-0.2683
6/12/2024 19:05:30	R2404782-002 10X	V (292.401 nm)	47.29	0.0008 (ppm)	49.3863
6/12/2024 19:05:30	R2404782-002 10X	Y (360.074 nm)	0.19	1.01 (Ratio)	468882.24
6/12/2024 19:05:30	R2404782-002 10X	Y_R (360.074 nm)	0.19	1.01 (Ratio)	468390.15
6/12/2024 19:05:30	R2404782-002 10X	Zn (213.857 nm)	5.01	0.0004 (ppm)	12.6022
6/12/2024 19:08:44	R2404782-002S 10X	Ag (328.068 nm)	5.45	0.0055 (ppm)	189.1036
6/12/2024 19:08:44	R2404782-002S 10X	Al (237.312 nm)	2.23	0.2146 (ppm)	345.5865
6/12/2024 19:08:44	R2404782-002S 10X	As (188.980 nm)	> 100.00	0.0019 (ppm)	3.9698
6/12/2024 19:08:44	R2404782-002S 10X	B (249.772 nm)	0.52	0.1263 (ppm)	4317.3094
6/12/2024 19:08:44	R2404782-002S 10X	Ba (230.424 nm)	0.31	0.2069 (ppm)	5545.5643
6/12/2024 19:08:44	R2404782-002S 10X	Be (313.107 nm)	0.40	0.0052 (ppm)	6672.3122
6/12/2024 19:08:44	R2404782-002S 10X	Ca (317.933 nm)	0.25	27.6575 (ppm)	1030502.9049
6/12/2024 19:08:44	R2404782-002S 10X	Cd (214.439 nm)	4.94	0.0050 (ppm)	132.6998
6/12/2024 19:08:44	R2404782-002S 10X	Co (230.786 nm)	1.98	0.0492 (ppm)	470.3833
6/12/2024 19:08:44	R2404782-002S 10X	Cr (267.716 nm)	2.36	0.0199 (ppm)	636.7129
6/12/2024 19:08:44	R2404782-002S 10X	Cu (327.395 nm)	3.03	0.0249 (ppm)	878.2823
6/12/2024 19:08:44	R2404782-002S 10X	Fe (234.350 nm)	0.86	0.1195 (ppm)	871.4060
6/12/2024 19:08:44	R2404782-002S 10X	K (766.491 nm)	0.53	2.3235 (ppm)	5228.1075
6/12/2024 19:08:44	R2404782-002S 10X	Mg (279.078 nm)	0.15	10.7713 (ppm)	26515.8230

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 19:08:44	R2404782-002S 10X	Mn (257.610 nm)	0.31	0.0518 (ppm)	11080.8319
6/12/2024 19:08:44	R2404782-002S 10X	Mo (202.032 nm)	3.35	0.0484 (ppm)	210.9266
6/12/2024 19:08:44	R2404782-002S 10X	Na (588.995 nm)	0.43	4.5505 (ppm)	110312.0421
6/12/2024 19:08:44	R2404782-002S 10X	Ni (230.299 nm)	1.46	0.0510 (ppm)	465.7959
6/12/2024 19:08:44	R2404782-002S 10X	Pb (220.353 nm)	3.56	0.0522 (ppm)	123.5537
6/12/2024 19:08:44	R2404782-002S 10X	Sb (217.582 nm)	11.24	0.0563 (ppm)	44.6584
6/12/2024 19:08:44	R2404782-002S 10X	Se (196.026 nm)	4.27	0.1028 (ppm)	72.1292
6/12/2024 19:08:44	R2404782-002S 10X	Sn (189.925 nm)	0.73	0.5131 (ppm)	476.8970
6/12/2024 19:08:44	R2404782-002S 10X	Sr (216.596 nm)	0.37	1.8180 (ppm)	16522.9834
6/12/2024 19:08:44	R2404782-002S 10X	Ti (336.122 nm)	0.29	0.0518 (ppm)	7123.1274
6/12/2024 19:08:44	R2404782-002S 10X	Tl (190.794 nm)	1.21	0.2010 (ppm)	99.5728
6/12/2024 19:08:44	R2404782-002S 10X	V (292.401 nm)	0.52	0.0525 (ppm)	1281.7322
6/12/2024 19:08:44	R2404782-002S 10X	Y (360.074 nm)	0.33	1.01 (Ratio)	468108.91
6/12/2024 19:08:44	R2404782-002S 10X	Y_R (360.074 nm)	0.33	1.01 (Ratio)	467527.49
6/12/2024 19:08:44	R2404782-002S 10X	Zn (213.857 nm)	0.53	0.0494 (ppm)	1501.8917
6/12/2024 19:11:58	R2404782-002SD 10X	Ag (328.068 nm)	8.45	0.0054 (ppm)	183.9605
6/12/2024 19:11:58	R2404782-002SD 10X	Al (237.312 nm)	1.77	0.2160 (ppm)	347.2405
6/12/2024 19:11:58	R2404782-002SD 10X	As (188.980 nm)	> 100.00	0.0056 u (ppm)	7.5644
6/12/2024 19:11:58	R2404782-002SD 10X	B (249.772 nm)	0.34	0.1273 (ppm)	4349.6445
6/12/2024 19:11:58	R2404782-002SD 10X	Ba (230.424 nm)	0.25	0.2080 (ppm)	5574.0166
6/12/2024 19:11:58	R2404782-002SD 10X	Be (313.107 nm)	0.34	0.0052 (ppm)	6723.2837
6/12/2024 19:11:58	R2404782-002SD 10X	Ca (317.933 nm)	0.56	27.9356 (ppm)	1040843.8511
6/12/2024 19:11:58	R2404782-002SD 10X	Cd (214.439 nm)	1.60	0.0050 (ppm)	133.9471
6/12/2024 19:11:58	R2404782-002SD 10X	Co (230.786 nm)	0.65	0.0493 (ppm)	470.6112
6/12/2024 19:11:58	R2404782-002SD 10X	Cr (267.716 nm)	1.28	0.0200 (ppm)	640.3919
6/12/2024 19:11:58	R2404782-002SD 10X	Cu (327.395 nm)	1.74	0.0252 (ppm)	886.1494
6/12/2024 19:11:58	R2404782-002SD 10X	Fe (234.350 nm)	0.36	0.1201 (ppm)	875.4547
6/12/2024 19:11:58	R2404782-002SD 10X	K (766.491 nm)	0.40	2.3658 (ppm)	5324.0170
6/12/2024 19:11:58	R2404782-002SD 10X	Mg (279.078 nm)	0.07	10.8747 (ppm)	26770.3329
6/12/2024 19:11:58	R2404782-002SD 10X	Mn (257.610 nm)	0.37	0.0520 (ppm)	11123.8946
6/12/2024 19:11:58	R2404782-002SD 10X	Mo (202.032 nm)	0.48	0.0486 (ppm)	212.1308
6/12/2024 19:11:58	R2404782-002SD 10X	Na (588.995 nm)	0.49	4.5909 (ppm)	111504.8724
6/12/2024 19:11:58	R2404782-002SD 10X	Ni (230.299 nm)	3.08	0.0527 (ppm)	480.4915
6/12/2024 19:11:58	R2404782-002SD 10X	Pb (220.353 nm)	3.00	0.0498 (ppm)	117.8460
6/12/2024 19:11:58	R2404782-002SD 10X	Sb (217.582 nm)	5.84	0.0586 (ppm)	46.6071
6/12/2024 19:11:58	R2404782-002SD 10X	Se (196.026 nm)	2.24	0.1046 (ppm)	73.3612
6/12/2024 19:11:58	R2404782-002SD 10X	Sn (189.925 nm)	1.00	0.5233 (ppm)	486.3002
6/12/2024 19:11:58	R2404782-002SD 10X	Sr (216.596 nm)	0.78	1.8284 (ppm)	16617.2352
6/12/2024 19:11:58	R2404782-002SD 10X	Ti (336.122 nm)	0.34	0.0523 (ppm)	7189.6413
6/12/2024 19:11:58	R2404782-002SD 10X	Tl (190.794 nm)	3.33	0.1995 (ppm)	98.8559
6/12/2024 19:11:58	R2404782-002SD 10X	V (292.401 nm)	0.89	0.0527 (ppm)	1287.5013
6/12/2024 19:11:58	R2404782-002SD 10X	Y (360.074 nm)	0.19	1.01 (Ratio)	467171.91
6/12/2024 19:11:58	R2404782-002SD 10X	Y_R (360.074 nm)	0.19	1.01 (Ratio)	466541.96
6/12/2024 19:11:58	R2404782-002SD 10X	Zn (213.857 nm)	0.54	0.0496 (ppm)	1507.6216
6/12/2024 19:15:12	Continuing Calibration Verification	Ag (328.068 nm)	0.23	0.5162 (ppm)	25416.0188
6/12/2024 19:15:12	Continuing Calibration Verification	Al (237.312 nm)	0.18	10.4866 (ppm)	13349.4289
6/12/2024 19:15:12	Continuing Calibration Verification	As (188.980 nm)	1.37	0.9835 (ppm)	952.0084
6/12/2024 19:15:12	Continuing Calibration Verification	B (249.772 nm)	0.24	2.6229 (ppm)	88011.0879
6/12/2024 19:15:12	Continuing Calibration Verification	Ba (230.424 nm)	0.37	10.2284 (ppm)	273909.3929
6/12/2024 19:15:12	Continuing Calibration Verification	Be (313.107 nm)	0.19	0.2573 (ppm)	350670.8187
6/12/2024 19:15:12	Continuing Calibration Verification	Ca (317.933 nm)	0.32	25.9061 (ppm)	965386.4576

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 19:15:12	Continuing Calibration Verification	Cd (214.439 nm)	0.26	0.4987 (ppm)	12668.1535
6/12/2024 19:15:12	Continuing Calibration Verification	Co (230.786 nm)	0.27	2.5030 (ppm)	24589.2019
6/12/2024 19:15:12	Continuing Calibration Verification	Cr (267.716 nm)	0.21	0.5103 (ppm)	14697.8052
6/12/2024 19:15:12	Continuing Calibration Verification	Cu (327.395 nm)	0.23	1.3254 (ppm)	46532.3832
6/12/2024 19:15:12	Continuing Calibration Verification	Fe (234.350 nm)	0.25	5.0445 (ppm)	34918.9533
6/12/2024 19:15:12	Continuing Calibration Verification	K (766.491 nm)	0.10	25.9623 (ppm)	58751.1583
6/12/2024 19:15:12	Continuing Calibration Verification	Mg (279.078 nm)	0.33	25.5116 (ppm)	62788.5258
6/12/2024 19:15:12	Continuing Calibration Verification	Mn (257.610 nm)	0.17	0.7425 (ppm)	158607.1229
6/12/2024 19:15:12	Continuing Calibration Verification	Mo (202.032 nm)	1.24	2.6111 (ppm)	11333.1674
6/12/2024 19:15:12	Continuing Calibration Verification	Na (588.995 nm)	0.13	26.1035 (ppm)	746938.4620
6/12/2024 19:15:12	Continuing Calibration Verification	Ni (230.299 nm)	0.16	2.0971 (ppm)	18270.5692
6/12/2024 19:15:12	Continuing Calibration Verification	Pb (220.353 nm)	0.08	0.5051 (ppm)	1175.0580
6/12/2024 19:15:12	Continuing Calibration Verification	Sb (217.582 nm)	0.49	4.8503 (ppm)	4043.1826
6/12/2024 19:15:12	Continuing Calibration Verification	Se (196.026 nm)	1.05	0.4890 (ppm)	336.3390
6/12/2024 19:15:12	Continuing Calibration Verification	Sn (189.925 nm)	0.31	5.0875 (ppm)	4706.0543
6/12/2024 19:15:12	Continuing Calibration Verification	Sr (216.596 nm)	0.24	2.4687 (ppm)	22430.4309
6/12/2024 19:15:12	Continuing Calibration Verification	Ti (336.122 nm)	0.53	2.6273 (ppm)	370005.2240
6/12/2024 19:15:12	Continuing Calibration Verification	Tl (190.794 nm)	0.84	1.0187 (ppm)	505.7287
6/12/2024 19:15:12	Continuing Calibration Verification	V (292.401 nm)	0.21	2.6451 (ppm)	63018.4521
6/12/2024 19:15:12	Continuing Calibration Verification	Y (360.074 nm)	0.29	0.98 (Ratio)	451133.70
6/12/2024 19:15:12	Continuing Calibration Verification	Y_R (360.074 nm)	0.30	0.97 (Ratio)	450451.69
6/12/2024 19:15:12	Continuing Calibration Verification	Zn (213.857 nm)	0.23	0.9804 (ppm)	29759.3989
6/12/2024 19:18:25	Continuing Calibration Blank	Ag (328.068 nm)	8.71	0.0008 (ppm)	-46.5132
6/12/2024 19:18:25	Continuing Calibration Blank	Al (237.312 nm)	14.39	0.0036 (ppm)	78.3711
6/12/2024 19:18:25	Continuing Calibration Blank	As (188.980 nm)	> 100.00	0.0009 u (ppm)	3.0355
6/12/2024 19:18:25	Continuing Calibration Blank	B (249.772 nm)	61.82	0.0005 (ppm)	100.6450
6/12/2024 19:18:25	Continuing Calibration Blank	Ba (230.424 nm)	> 100.00	0.0000 u (ppm)	4.9960
6/12/2024 19:18:25	Continuing Calibration Blank	Be (313.107 nm)	> 100.00	0.0000 u (ppm)	-355.1745
6/12/2024 19:18:25	Continuing Calibration Blank	Ca (317.933 nm)	7.50	-0.0044 u (ppm)	2018.4106
6/12/2024 19:18:25	Continuing Calibration Blank	Cd (214.439 nm)	> 100.00	0.0000 u (ppm)	5.5735
6/12/2024 19:18:25	Continuing Calibration Blank	Co (230.786 nm)	> 100.00	0.0000 u (ppm)	-13.3211
6/12/2024 19:18:25	Continuing Calibration Blank	Cr (267.716 nm)	85.49	-0.0005 u (ppm)	53.2592
6/12/2024 19:18:25	Continuing Calibration Blank	Cu (327.395 nm)	> 100.00	0.0001 u (ppm)	4.7413
6/12/2024 19:18:25	Continuing Calibration Blank	Fe (234.350 nm)	> 100.00	0.0010 (ppm)	51.6828
6/12/2024 19:18:25	Continuing Calibration Blank	K (766.491 nm)	> 100.00	0.0165 u (ppm)	4.6615
6/12/2024 19:18:25	Continuing Calibration Blank	Mg (279.078 nm)	> 100.00	-0.0007 u (ppm)	8.4198
6/12/2024 19:18:25	Continuing Calibration Blank	Mn (257.610 nm)	> 100.00	0.0000 u (ppm)	12.2750
6/12/2024 19:18:25	Continuing Calibration Blank	Mo (202.032 nm)	7.58	0.0134 (ppm)	59.2707
6/12/2024 19:18:25	Continuing Calibration Blank	Na (588.995 nm)	46.05	-0.0234 u (ppm)	-24788.5802
6/12/2024 19:18:25	Continuing Calibration Blank	Ni (230.299 nm)	> 100.00	0.0002 u (ppm)	23.9901
6/12/2024 19:18:25	Continuing Calibration Blank	Pb (220.353 nm)	> 100.00	-0.0003 u (ppm)	1.6919
6/12/2024 19:18:25	Continuing Calibration Blank	Sb (217.582 nm)	29.20	0.0348 (ppm)	26.7579
6/12/2024 19:18:25	Continuing Calibration Blank	Se (196.026 nm)	> 100.00	0.0004 u (ppm)	2.0131
6/12/2024 19:18:25	Continuing Calibration Blank	Sn (189.925 nm)	> 100.00	-0.0005 u (ppm)	2.0116
6/12/2024 19:18:25	Continuing Calibration Blank	Sr (216.596 nm)	> 100.00	0.0000 u (ppm)	17.3800
6/12/2024 19:18:25	Continuing Calibration Blank	Ti (336.122 nm)	25.06	0.0033 (ppm)	285.0038
6/12/2024 19:18:25	Continuing Calibration Blank	Tl (190.794 nm)	> 100.00	0.0009 u (ppm)	0.1787
6/12/2024 19:18:25	Continuing Calibration Blank	V (292.401 nm)	61.63	0.0006 (ppm)	45.1744
6/12/2024 19:18:25	Continuing Calibration Blank	Y (360.074 nm)	0.37	1.01 (Ratio)	468704.43
6/12/2024 19:18:25	Continuing Calibration Blank	Y_R (360.074 nm)	0.38	1.01 (Ratio)	467734.88
6/12/2024 19:18:25	Continuing Calibration Blank	Zn (213.857 nm)	> 100.00	0.0000 u (ppm)	2.2391

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 19:21:39	R2404782-002A 10X	Ag (328.068 nm)	0.48	0.0485 (ppm)	2312.5352
6/12/2024 19:21:39	R2404782-002A 10X	Al (237.312 nm)	0.60	2.0034 (ppm)	2610.1029
6/12/2024 19:21:39	R2404782-002A 10X	As (188.980 nm)	7.34	0.0287 (ppm)	29.8462
6/12/2024 19:21:39	R2404782-002A 10X	B (249.772 nm)	0.33	1.0489 (ppm)	35245.1771
6/12/2024 19:21:39	R2404782-002A 10X	Ba (230.424 nm)	0.55	1.9533 (ppm)	52309.7520
6/12/2024 19:21:39	R2404782-002A 10X	Be (313.107 nm)	0.15	0.0495 (ppm)	67107.7811
6/12/2024 19:21:39	R2404782-002A 10X	Ca (317.933 nm)	0.16	29.0226 (ppm)	1081258.2600
6/12/2024 19:21:39	R2404782-002A 10X	Cd (214.439 nm)	0.27	0.0481 (ppm)	1227.4400
6/12/2024 19:21:39	R2404782-002A 10X	Co (230.786 nm)	0.32	0.4752 (ppm)	4657.1428
6/12/2024 19:21:39	R2404782-002A 10X	Cr (267.716 nm)	0.09	0.1903 (ppm)	5521.8998
6/12/2024 19:21:39	R2404782-002A 10X	Cu (327.395 nm)	0.31	0.2466 (ppm)	8661.4693
6/12/2024 19:21:39	R2404782-002A 10X	Fe (234.350 nm)	0.22	0.9886 (ppm)	6879.6903
6/12/2024 19:21:39	R2404782-002A 10X	K (766.491 nm)	0.22	19.9524 (ppm)	45143.5756
6/12/2024 19:21:39	R2404782-002A 10X	Mg (279.078 nm)	0.20	12.2346 (ppm)	30116.8139
6/12/2024 19:21:39	R2404782-002A 10X	Mn (257.610 nm)	0.25	0.4756 (ppm)	101602.7821
6/12/2024 19:21:39	R2404782-002A 10X	Mo (202.032 nm)	1.66	0.4859 (ppm)	2109.7695
6/12/2024 19:21:39	R2404782-002A 10X	Na (588.995 nm)	0.29	22.1529 (ppm)	630246.4017
6/12/2024 19:21:39	R2404782-002A 10X	Ni (230.299 nm)	0.26	0.5008 (ppm)	4380.3661
6/12/2024 19:21:39	R2404782-002A 10X	Pb (220.353 nm)	0.30	0.4876 (ppm)	1134.3212
6/12/2024 19:21:39	R2404782-002A 10X	Sb (217.582 nm)	1.15	0.5212 (ppm)	432.3803
6/12/2024 19:21:39	R2404782-002A 10X	Se (196.026 nm)	1.27	1.0360 (ppm)	710.6069
6/12/2024 19:21:39	R2404782-002A 10X	Sn (189.925 nm)	0.43	5.0246 (ppm)	4647.9496
6/12/2024 19:21:39	R2404782-002A 10X	Sr (216.596 nm)	0.30	3.5184 (ppm)	31961.2274
6/12/2024 19:21:39	R2404782-002A 10X	Ti (336.122 nm)	0.32	0.5033 (ppm)	70737.3208
6/12/2024 19:21:39	R2404782-002A 10X	Tl (190.794 nm)	0.26	1.8985 (ppm)	942.7180
6/12/2024 19:21:39	R2404782-002A 10X	V (292.401 nm)	0.26	0.4931 (ppm)	11772.7465
6/12/2024 19:21:39	R2404782-002A 10X	Y (360.074 nm)	0.19	1.00 (Ratio)	464068.41
6/12/2024 19:21:39	R2404782-002A 10X	Y_R (360.074 nm)	0.20	1.00 (Ratio)	463051.54
6/12/2024 19:21:39	R2404782-002A 10X	Zn (213.857 nm)	0.45	0.4715 (ppm)	14313.2121
6/12/2024 19:24:54	R2404782-002L 50X	Ag (328.068 nm)	16.84	0.0007 (ppm)	-48.5875
6/12/2024 19:24:54	R2404782-002L 50X	Al (237.312 nm)	59.27	0.0082 (ppm)	84.2338
6/12/2024 19:24:54	R2404782-002L 50X	As (188.980 nm)	> 100.00	-0.0001 u (ppm)	2.0787
6/12/2024 19:24:54	R2404782-002L 50X	B (249.772 nm)	9.09	0.0043 (ppm)	228.4030
6/12/2024 19:24:54	R2404782-002L 50X	Ba (230.424 nm)	61.61	0.0003 (ppm)	12.7786
6/12/2024 19:24:54	R2404782-002L 50X	Be (313.107 nm)	> 100.00	0.0000 u (ppm)	-341.4393
6/12/2024 19:24:54	R2404782-002L 50X	Ca (317.933 nm)	0.52	5.6033 (ppm)	210516.8832
6/12/2024 19:24:54	R2404782-002L 50X	Cd (214.439 nm)	24.28	-0.0001 u (ppm)	3.4137
6/12/2024 19:24:54	R2404782-002L 50X	Co (230.786 nm)	49.13	-0.0003 u (ppm)	-17.0201
6/12/2024 19:24:54	R2404782-002L 50X	Cr (267.716 nm)	> 100.00	-0.0002 u (ppm)	61.3297
6/12/2024 19:24:54	R2404782-002L 50X	Cu (327.395 nm)	> 100.00	0.0000 u (ppm)	2.4202
6/12/2024 19:24:54	R2404782-002L 50X	Fe (234.350 nm)	18.40	0.0042 (ppm)	74.1524
6/12/2024 19:24:54	R2404782-002L 50X	K (766.491 nm)	27.32	0.0674 (ppm)	119.8631
6/12/2024 19:24:54	R2404782-002L 50X	Mg (279.078 nm)	0.21	2.1443 (ppm)	5286.8864
6/12/2024 19:24:54	R2404782-002L 50X	Mn (257.610 nm)	10.85	0.0003 (ppm)	69.5533
6/12/2024 19:24:54	R2404782-002L 50X	Mo (202.032 nm)	7.22	0.0074 (ppm)	33.2804
6/12/2024 19:24:54	R2404782-002L 50X	Na (588.995 nm)	1.25	0.4776 (ppm)	-9990.5648
6/12/2024 19:24:54	R2404782-002L 50X	Ni (230.299 nm)	63.49	-0.0010 u (ppm)	13.6142
6/12/2024 19:24:54	R2404782-002L 50X	Pb (220.353 nm)	53.37	0.0026 (ppm)	8.4755
6/12/2024 19:24:54	R2404782-002L 50X	Sb (217.582 nm)	11.02	0.0164 (ppm)	11.3812
6/12/2024 19:24:54	R2404782-002L 50X	Se (196.026 nm)	77.83	0.0091 (ppm)	7.9869
6/12/2024 19:24:54	R2404782-002L 50X	Sn (189.925 nm)	> 100.00	-0.0002 u (ppm)	2.3386

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 19:24:54	R2404782-002L 50X	Sr (216.596 nm)	0.25	0.3278 (ppm)	2993.1334
6/12/2024 19:24:54	R2404782-002L 50X	Ti (336.122 nm)	26.94	0.0012 (ppm)	-6.2376
6/12/2024 19:24:54	R2404782-002L 50X	Tl (190.794 nm)	> 100.00	0.0015 u (ppm)	0.5216
6/12/2024 19:24:54	R2404782-002L 50X	V (292.401 nm)	42.66	0.0011 (ppm)	57.0463
6/12/2024 19:24:54	R2404782-002L 50X	Y (360.074 nm)	0.13	1.02 (Ratio)	474155.39
6/12/2024 19:24:54	R2404782-002L 50X	Y_R (360.074 nm)	0.14	1.02 (Ratio)	472922.41
6/12/2024 19:24:54	R2404782-002L 50X	Zn (213.857 nm)	70.38	0.0000 (ppm)	2.4908
6/12/2024 19:28:08	R2404782-006 10X	Ag (328.068 nm)	53.60	0.0008 (ppm)	-44.6815
6/12/2024 19:28:08	R2404782-006 10X	Al (237.312 nm)	19.46	0.0227 (ppm)	102.6382
6/12/2024 19:28:08	R2404782-006 10X	As (188.980 nm)	> 100.00	0.0008 u (ppm)	2.9207
6/12/2024 19:28:08	R2404782-006 10X	B (249.772 nm)	0.87	0.0498 (ppm)	1751.9702
6/12/2024 19:28:08	R2404782-006 10X	Ba (230.424 nm)	26.47	0.0007 (ppm)	23.6019
6/12/2024 19:28:08	R2404782-006 10X	Be (313.107 nm)	> 100.00	0.0000 u (ppm)	-356.3251
6/12/2024 19:28:08	R2404782-006 10X	Ca (317.933 nm)	0.50	55.3632 o (ppm)	2060616.5297
6/12/2024 19:28:08	R2404782-006 10X	Cd (214.439 nm)	> 100.00	-0.0001 u (ppm)	3.2062
6/12/2024 19:28:08	R2404782-006 10X	Co (230.786 nm)	> 100.00	-0.0004 u (ppm)	-17.2662
6/12/2024 19:28:08	R2404782-006 10X	Cr (267.716 nm)	95.71	-0.0003 u (ppm)	58.8936
6/12/2024 19:28:08	R2404782-006 10X	Cu (327.395 nm)	59.30	-0.0007 u (ppm)	-23.3496
6/12/2024 19:28:08	R2404782-006 10X	Fe (234.350 nm)	5.34	0.0171 (ppm)	163.2352
6/12/2024 19:28:08	R2404782-006 10X	K (766.491 nm)	5.08	0.4405 (ppm)	964.6446
6/12/2024 19:28:08	R2404782-006 10X	Mg (279.078 nm)	0.35	19.3298 (ppm)	47576.3231
6/12/2024 19:28:08	R2404782-006 10X	Mn (257.610 nm)	1.30	0.0037 (ppm)	795.2852
6/12/2024 19:28:08	R2404782-006 10X	Mo (202.032 nm)	43.16	0.0016 (ppm)	8.1068
6/12/2024 19:28:08	R2404782-006 10X	Na (588.995 nm)	0.32	2.0162 (ppm)	35455.7550
6/12/2024 19:28:08	R2404782-006 10X	Ni (230.299 nm)	48.54	-0.0010 u (ppm)	13.3525
6/12/2024 19:28:08	R2404782-006 10X	Pb (220.353 nm)	31.72	-0.0031 u (ppm)	-4.9049
6/12/2024 19:28:08	R2404782-006 10X	Sb (217.582 nm)	7.86	0.0140 (ppm)	9.3887
6/12/2024 19:28:08	R2404782-006 10X	Se (196.026 nm)	> 100.00	0.0002 u (ppm)	1.9273
6/12/2024 19:28:08	R2404782-006 10X	Sn (189.925 nm)	> 100.00	0.0004 u (ppm)	2.8782
6/12/2024 19:28:08	R2404782-006 10X	Sr (216.596 nm)	0.70	1.1416 (ppm)	10381.9640
6/12/2024 19:28:08	R2404782-006 10X	Ti (336.122 nm)	7.10	0.0012 (ppm)	-9.3479
6/12/2024 19:28:08	R2404782-006 10X	Tl (190.794 nm)	> 100.00	-0.0020 u (ppm)	-1.2403
6/12/2024 19:28:08	R2404782-006 10X	V (292.401 nm)	16.19	0.0010 (ppm)	54.2300
6/12/2024 19:28:08	R2404782-006 10X	Y (360.074 nm)	0.27	1.02 (Ratio)	469708.66
6/12/2024 19:28:08	R2404782-006 10X	Y_R (360.074 nm)	0.28	1.01 (Ratio)	468419.10
6/12/2024 19:28:08	R2404782-006 10X	Zn (213.857 nm)	32.25	0.0004 (ppm)	14.4970
6/12/2024 19:31:21	R2404782-007 10X	Ag (328.068 nm)	11.39	0.0008 (ppm)	-47.6686
6/12/2024 19:31:21	R2404782-007 10X	Al (237.312 nm)	41.25	0.0205 (ppm)	99.7546
6/12/2024 19:31:21	R2404782-007 10X	As (188.980 nm)	> 100.00	0.0014 u (ppm)	3.4738
6/12/2024 19:31:21	R2404782-007 10X	B (249.772 nm)	2.08	0.0089 (ppm)	383.3490
6/12/2024 19:31:21	R2404782-007 10X	Ba (230.424 nm)	3.15	0.0043 (ppm)	119.4117
6/12/2024 19:31:21	R2404782-007 10X	Be (313.107 nm)	> 100.00	0.0000 u (ppm)	-352.5140
6/12/2024 19:31:21	R2404782-007 10X	Ca (317.933 nm)	0.31	32.6877 (ppm)	1217529.0140
6/12/2024 19:31:21	R2404782-007 10X	Cd (214.439 nm)	> 100.00	-0.0001 u (ppm)	4.1374
6/12/2024 19:31:21	R2404782-007 10X	Co (230.786 nm)	> 100.00	-0.0002 u (ppm)	-16.0965
6/12/2024 19:31:21	R2404782-007 10X	Cr (267.716 nm)	22.60	-0.0003 u (ppm)	57.7758
6/12/2024 19:31:21	R2404782-007 10X	Cu (327.395 nm)	67.46	-0.0004 u (ppm)	-10.1819
6/12/2024 19:31:21	R2404782-007 10X	Fe (234.350 nm)	0.94	0.0703 (ppm)	530.8315
6/12/2024 19:31:21	R2404782-007 10X	K (766.491 nm)	4.23	0.3487 (ppm)	756.8978
6/12/2024 19:31:21	R2404782-007 10X	Mg (279.078 nm)	0.35	15.1769 (ppm)	37356.9929
6/12/2024 19:31:21	R2404782-007 10X	Mn (257.610 nm)	0.54	0.0515 (ppm)	11015.1586

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 19:31:21	R2404782-007 10X	Mo (202.032 nm)	> 100.00	0.0005 u (ppm)	3.0248
6/12/2024 19:31:21	R2404782-007 10X	Na (588.995 nm)	0.81	1.9631 (ppm)	33887.7470
6/12/2024 19:31:21	R2404782-007 10X	Ni (230.299 nm)	> 100.00	0.0000 u (ppm)	22.1917
6/12/2024 19:31:21	R2404782-007 10X	Pb (220.353 nm)	> 100.00	0.0010 u (ppm)	4.6612
6/12/2024 19:31:21	R2404782-007 10X	Sb (217.582 nm)	34.75	0.0117 (ppm)	7.4596
6/12/2024 19:31:21	R2404782-007 10X	Se (196.026 nm)	> 100.00	0.0021 (ppm)	3.2291
6/12/2024 19:31:21	R2404782-007 10X	Sn (189.925 nm)	> 100.00	-0.0026 u (ppm)	0.0997
6/12/2024 19:31:21	R2404782-007 10X	Sr (216.596 nm)	0.49	0.7615 (ppm)	6930.9450
6/12/2024 19:31:21	R2404782-007 10X	Ti (336.122 nm)	23.69	0.0007 (ppm)	-83.1446
6/12/2024 19:31:21	R2404782-007 10X	Tl (190.794 nm)	> 100.00	-0.0010 u (ppm)	-0.7214
6/12/2024 19:31:21	R2404782-007 10X	V (292.401 nm)	5.52	0.0012 (ppm)	59.6458
6/12/2024 19:31:21	R2404782-007 10X	Y (360.074 nm)	0.16	1.02 (Ratio)	472592.06
6/12/2024 19:31:21	R2404782-007 10X	Y_R (360.074 nm)	0.16	1.02 (Ratio)	471258.23
6/12/2024 19:31:21	R2404782-007 10X	Zn (213.857 nm)	7.34	0.0003 (ppm)	11.5647
6/12/2024 19:34:35	R2404782-009 10X	Ag (328.068 nm)	58.34	0.0005 (ppm)	-62.5510
6/12/2024 19:34:35	R2404782-009 10X	Al (237.312 nm)	35.41	0.0081 (ppm)	84.0994
6/12/2024 19:34:35	R2404782-009 10X	As (188.980 nm)	90.14	-0.0021 u (ppm)	0.0862
6/12/2024 19:34:35	R2404782-009 10X	B (249.772 nm)	1.49	0.0392 (ppm)	1396.5283
6/12/2024 19:34:35	R2404782-009 10X	Ba (230.424 nm)	8.63	0.0006 (ppm)	18.8970
6/12/2024 19:34:35	R2404782-009 10X	Be (313.107 nm)	40.56	0.0000 (ppm)	-335.0173
6/12/2024 19:34:35	R2404782-009 10X	Ca (317.933 nm)	0.66	52.9893 (ppm)	1972353.0118
6/12/2024 19:34:35	R2404782-009 10X	Cd (214.439 nm)	> 100.00	-0.0001 u (ppm)	4.9273
6/12/2024 19:34:35	R2404782-009 10X	Co (230.786 nm)	> 100.00	0.0003 u (ppm)	-10.8032
6/12/2024 19:34:35	R2404782-009 10X	Cr (267.716 nm)	> 100.00	-0.0003 u (ppm)	58.4018
6/12/2024 19:34:35	R2404782-009 10X	Cu (327.395 nm)	> 100.00	-0.0004 u (ppm)	-10.4068
6/12/2024 19:34:35	R2404782-009 10X	Fe (234.350 nm)	1.60	0.0741 (ppm)	556.9733
6/12/2024 19:34:35	R2404782-009 10X	K (766.491 nm)	1.58	0.5825 (ppm)	1286.3367
6/12/2024 19:34:35	R2404782-009 10X	Mg (279.078 nm)	0.55	16.6617 (ppm)	41010.8913
6/12/2024 19:34:35	R2404782-009 10X	Mn (257.610 nm)	1.49	0.0036 (ppm)	765.8629
6/12/2024 19:34:35	R2404782-009 10X	Mo (202.032 nm)	> 100.00	0.0003 u (ppm)	2.1154
6/12/2024 19:34:35	R2404782-009 10X	Na (588.995 nm)	0.81	1.9834 (ppm)	34487.6102
6/12/2024 19:34:35	R2404782-009 10X	Ni (230.299 nm)	> 100.00	0.0000 u (ppm)	22.4764
6/12/2024 19:34:35	R2404782-009 10X	Pb (220.353 nm)	63.09	-0.0028 u (ppm)	-4.1524
6/12/2024 19:34:35	R2404782-009 10X	Sb (217.582 nm)	90.68	0.0042 (ppm)	1.1915
6/12/2024 19:34:35	R2404782-009 10X	Se (196.026 nm)	> 100.00	-0.0049 u (ppm)	-1.5889
6/12/2024 19:34:35	R2404782-009 10X	Sn (189.925 nm)	> 100.00	-0.0016 u (ppm)	1.0465
6/12/2024 19:34:35	R2404782-009 10X	Sr (216.596 nm)	1.45	1.1162 (ppm)	10151.5040
6/12/2024 19:34:35	R2404782-009 10X	Ti (336.122 nm)	9.94	0.0005 (ppm)	-107.3870
6/12/2024 19:34:35	R2404782-009 10X	Tl (190.794 nm)	> 100.00	-0.0010 u (ppm)	-0.7377
6/12/2024 19:34:35	R2404782-009 10X	V (292.401 nm)	49.64	0.0011 (ppm)	58.1283
6/12/2024 19:34:35	R2404782-009 10X	Y (360.074 nm)	0.31	1.02 (Ratio)	472557.79
6/12/2024 19:34:35	R2404782-009 10X	Y_R (360.074 nm)	0.31	1.02 (Ratio)	471235.92
6/12/2024 19:34:35	R2404782-009 10X	Zn (213.857 nm)	28.65	0.0008 (ppm)	25.2493
6/12/2024 19:37:50	R2404782-011 10X	Ag (328.068 nm)	35.08	0.0005 (ppm)	-59.8816
6/12/2024 19:37:50	R2404782-011 10X	Al (237.312 nm)	15.65	0.0079 (ppm)	83.8838
6/12/2024 19:37:50	R2404782-011 10X	As (188.980 nm)	> 100.00	-0.0011 u (ppm)	1.0687
6/12/2024 19:37:50	R2404782-011 10X	B (249.772 nm)	0.69	0.0860 (ppm)	2967.6668
6/12/2024 19:37:50	R2404782-011 10X	Ba (230.424 nm)	25.08	0.0010 (ppm)	30.0982
6/12/2024 19:37:50	R2404782-011 10X	Be (313.107 nm)	> 100.00	0.0000 u (ppm)	-351.4120
6/12/2024 19:37:50	R2404782-011 10X	Ca (317.933 nm)	0.78	53.9470 (ppm)	2007962.7705
6/12/2024 19:37:50	R2404782-011 10X	Cd (214.439 nm)	> 100.00	0.0001 u (ppm)	8.3024

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 19:37:50	R2404782-011 10X	Co (230.786 nm)	> 100.00	-0.0001 u (ppm)	-14.5781
6/12/2024 19:37:50	R2404782-011 10X	Cr (267.716 nm)	66.09	-0.0003 u (ppm)	58.5305
6/12/2024 19:37:50	R2404782-011 10X	Cu (327.395 nm)	40.25	-0.0010 u (ppm)	-31.4489
6/12/2024 19:37:50	R2404782-011 10X	Fe (234.350 nm)	2.11	0.0456 (ppm)	360.1035
6/12/2024 19:37:50	R2404782-011 10X	K (766.491 nm)	3.81	0.5652 (ppm)	1247.0342
6/12/2024 19:37:50	R2404782-011 10X	Mg (279.078 nm)	0.74	20.8441 (ppm)	51302.7841
6/12/2024 19:37:50	R2404782-011 10X	Mn (257.610 nm)	0.70	0.0106 (ppm)	2262.1888
6/12/2024 19:37:50	R2404782-011 10X	Mo (202.032 nm)	> 100.00	0.0000 u (ppm)	0.8640
6/12/2024 19:37:50	R2404782-011 10X	Na (588.995 nm)	0.79	3.7970 (ppm)	88054.7121
6/12/2024 19:37:50	R2404782-011 10X	Ni (230.299 nm)	> 100.00	-0.0003 u (ppm)	19.8084
6/12/2024 19:37:50	R2404782-011 10X	Pb (220.353 nm)	> 100.00	-0.0004 u (ppm)	1.5002
6/12/2024 19:37:50	R2404782-011 10X	Sb (217.582 nm)	44.17	0.0083 (ppm)	4.6600
6/12/2024 19:37:50	R2404782-011 10X	Se (196.026 nm)	> 100.00	-0.0022 u (ppm)	0.2614
6/12/2024 19:37:50	R2404782-011 10X	Sn (189.925 nm)	> 100.00	-0.0016 u (ppm)	1.0255
6/12/2024 19:37:50	R2404782-011 10X	Sr (216.596 nm)	0.49	1.1068 (ppm)	10065.5430
6/12/2024 19:37:50	R2404782-011 10X	Ti (336.122 nm)	40.48	0.0003 (ppm)	-130.0269
6/12/2024 19:37:50	R2404782-011 10X	Tl (190.794 nm)	> 100.00	0.0021 u (ppm)	0.7946
6/12/2024 19:37:50	R2404782-011 10X	V (292.401 nm)	66.33	0.0007 (ppm)	48.5159
6/12/2024 19:37:50	R2404782-011 10X	Y (360.074 nm)	0.16	1.02 (Ratio)	472154.14
6/12/2024 19:37:50	R2404782-011 10X	Y_R (360.074 nm)	0.16	1.01 (Ratio)	470800.98
6/12/2024 19:37:50	R2404782-011 10X	Zn (213.857 nm)	17.35	0.0005 (ppm)	16.7306
6/12/2024 19:41:04	R2404782-012 10X	Ag (328.068 nm)	11.38	0.0006 (ppm)	-53.6753
6/12/2024 19:41:04	R2404782-012 10X	Al (237.312 nm)	> 100.00	-0.0046 u (ppm)	68.0804
6/12/2024 19:41:04	R2404782-012 10X	As (188.980 nm)	95.26	-0.0030 u (ppm)	-0.7393
6/12/2024 19:41:04	R2404782-012 10X	B (249.772 nm)	0.19	0.0473 (ppm)	1670.1319
6/12/2024 19:41:04	R2404782-012 10X	Ba (230.424 nm)	47.82	0.0005 (ppm)	16.2924
6/12/2024 19:41:04	R2404782-012 10X	Be (313.107 nm)	> 100.00	0.0000 (ppm)	-336.8407
6/12/2024 19:41:04	R2404782-012 10X	Ca (317.933 nm)	0.26	53.6500 (ppm)	1996918.2833
6/12/2024 19:41:04	R2404782-012 10X	Cd (214.439 nm)	> 100.00	0.0001 u (ppm)	8.3633
6/12/2024 19:41:04	R2404782-012 10X	Co (230.786 nm)	98.20	0.0004 (ppm)	-9.3192
6/12/2024 19:41:04	R2404782-012 10X	Cr (267.716 nm)	93.18	-0.0004 u (ppm)	55.2375
6/12/2024 19:41:04	R2404782-012 10X	Cu (327.395 nm)	> 100.00	-0.0006 u (ppm)	-17.4970
6/12/2024 19:41:04	R2404782-012 10X	Fe (234.350 nm)	1.51	0.0311 (ppm)	260.2944
6/12/2024 19:41:04	R2404782-012 10X	K (766.491 nm)	10.04	0.3648 (ppm)	793.3336
6/12/2024 19:41:04	R2404782-012 10X	Mg (279.078 nm)	0.40	14.4213 (ppm)	35497.8263
6/12/2024 19:41:04	R2404782-012 10X	Mn (257.610 nm)	0.80	0.0025 (ppm)	541.7656
6/12/2024 19:41:04	R2404782-012 10X	Mo (202.032 nm)	58.47	-0.0012 u (ppm)	-4.3093
6/12/2024 19:41:04	R2404782-012 10X	Na (588.995 nm)	0.62	1.5666 (ppm)	22174.9832
6/12/2024 19:41:04	R2404782-012 10X	Ni (230.299 nm)	> 100.00	-0.0002 u (ppm)	20.0905
6/12/2024 19:41:04	R2404782-012 10X	Pb (220.353 nm)	> 100.00	-0.0019 u (ppm)	-2.0774
6/12/2024 19:41:04	R2404782-012 10X	Sb (217.582 nm)	23.35	0.0097 (ppm)	5.7731
6/12/2024 19:41:04	R2404782-012 10X	Se (196.026 nm)	> 100.00	-0.0010 u (ppm)	1.0693
6/12/2024 19:41:04	R2404782-012 10X	Sn (189.925 nm)	> 100.00	-0.0005 u (ppm)	1.9937
6/12/2024 19:41:04	R2404782-012 10X	Sr (216.596 nm)	0.57	1.1220 (ppm)	10203.5954
6/12/2024 19:41:04	R2404782-012 10X	Ti (336.122 nm)	12.81	0.0002 (ppm)	-153.8915
6/12/2024 19:41:04	R2404782-012 10X	Tl (190.794 nm)	> 100.00	0.0011 u (ppm)	0.3263
6/12/2024 19:41:04	R2404782-012 10X	V (292.401 nm)	27.31	0.0010 (ppm)	55.6947
6/12/2024 19:41:04	R2404782-012 10X	Y (360.074 nm)	0.32	1.03 (Ratio)	475453.15
6/12/2024 19:41:04	R2404782-012 10X	Y_R (360.074 nm)	0.33	1.02 (Ratio)	474157.14
6/12/2024 19:41:04	R2404782-012 10X	Zn (213.857 nm)	36.51	0.0003 (ppm)	11.7837
6/12/2024 19:44:18	R2404782-013 10X	Ag (328.068 nm)	42.91	0.0007 (ppm)	-52.4880

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 19:44:18	R2404782-013 10X	Al (237.312 nm)	> 100.00	0.0011 u (ppm)	75.2846
6/12/2024 19:44:18	R2404782-013 10X	As (188.980 nm)	> 100.00	-0.0011 u (ppm)	1.0778
6/12/2024 19:44:18	R2404782-013 10X	B (249.772 nm)	1.41	0.0333 (ppm)	1200.0746
6/12/2024 19:44:18	R2404782-013 10X	Ba (230.424 nm)	35.59	0.0007 (ppm)	21.7393
6/12/2024 19:44:18	R2404782-013 10X	Be (313.107 nm)	50.23	0.0000 (ppm)	-331.7570
6/12/2024 19:44:18	R2404782-013 10X	Ca (317.933 nm)	0.12	52.6321 (ppm)	1959072.7508
6/12/2024 19:44:18	R2404782-013 10X	Cd (214.439 nm)	> 100.00	-0.0002 u (ppm)	2.4049
6/12/2024 19:44:18	R2404782-013 10X	Co (230.786 nm)	> 100.00	-0.0002 u (ppm)	-15.8124
6/12/2024 19:44:18	R2404782-013 10X	Cr (267.716 nm)	34.73	-0.0005 u (ppm)	52.2427
6/12/2024 19:44:18	R2404782-013 10X	Cu (327.395 nm)	> 100.00	-0.0004 u (ppm)	-12.9399
6/12/2024 19:44:18	R2404782-013 10X	Fe (234.350 nm)	2.08	0.0396 (ppm)	318.5125
6/12/2024 19:44:18	R2404782-013 10X	K (766.491 nm)	6.90	0.2868 (ppm)	616.8306
6/12/2024 19:44:18	R2404782-013 10X	Mg (279.078 nm)	0.18	13.8295 (ppm)	34041.3157
6/12/2024 19:44:18	R2404782-013 10X	Mn (257.610 nm)	0.64	0.0049 (ppm)	1044.0004
6/12/2024 19:44:18	R2404782-013 10X	Mo (202.032 nm)	> 100.00	-0.0003 u (ppm)	-0.3437
6/12/2024 19:44:18	R2404782-013 10X	Na (588.995 nm)	0.72	1.1505 (ppm)	9884.8929
6/12/2024 19:44:18	R2404782-013 10X	Ni (230.299 nm)	79.25	-0.0013 u (ppm)	11.1489
6/12/2024 19:44:18	R2404782-013 10X	Pb (220.353 nm)	> 100.00	-0.0016 u (ppm)	-1.3812
6/12/2024 19:44:18	R2404782-013 10X	Sb (217.582 nm)	> 100.00	0.0039 (ppm)	0.9779
6/12/2024 19:44:18	R2404782-013 10X	Se (196.026 nm)	88.78	-0.0071 u (ppm)	-3.0738
6/12/2024 19:44:18	R2404782-013 10X	Sn (189.925 nm)	> 100.00	-0.0026 u (ppm)	0.0985
6/12/2024 19:44:18	R2404782-013 10X	Sr (216.596 nm)	0.36	1.1276 (ppm)	10254.3656
6/12/2024 19:44:18	R2404782-013 10X	Ti (336.122 nm)	> 100.00	0.0001 u (ppm)	-156.8060
6/12/2024 19:44:18	R2404782-013 10X	Tl (190.794 nm)	> 100.00	0.0020 u (ppm)	0.7712
6/12/2024 19:44:18	R2404782-013 10X	V (292.401 nm)	59.00	0.0003 (ppm)	38.9881
6/12/2024 19:44:18	R2404782-013 10X	Y (360.074 nm)	0.30	1.03 (Ratio)	475162.66
6/12/2024 19:44:18	R2404782-013 10X	Y_R (360.074 nm)	0.30	1.02 (Ratio)	473785.47
6/12/2024 19:44:18	R2404782-013 10X	Zn (213.857 nm)	44.01	0.0003 (ppm)	10.4885
6/12/2024 19:47:31	R2404782-014 10X	Ag (328.068 nm)	30.12	0.0003 (ppm)	-68.4621
6/12/2024 19:47:31	R2404782-014 10X	Al (237.312 nm)	35.48	0.0098 (ppm)	86.2857
6/12/2024 19:47:31	R2404782-014 10X	As (188.980 nm)	> 100.00	-0.0020 u (ppm)	0.2477
6/12/2024 19:47:31	R2404782-014 10X	B (249.772 nm)	0.15	0.0489 (ppm)	1722.8852
6/12/2024 19:47:31	R2404782-014 10X	Ba (230.424 nm)	7.88	0.0007 (ppm)	23.4523
6/12/2024 19:47:31	R2404782-014 10X	Be (313.107 nm)	> 100.00	0.0000 u (ppm)	-355.9287
6/12/2024 19:47:31	R2404782-014 10X	Ca (317.933 nm)	0.46	54.2570 (ppm)	2019487.1620
6/12/2024 19:47:31	R2404782-014 10X	Cd (214.439 nm)	> 100.00	0.0000 u (ppm)	6.9209
6/12/2024 19:47:31	R2404782-014 10X	Co (230.786 nm)	91.91	-0.0002 u (ppm)	-15.2393
6/12/2024 19:47:31	R2404782-014 10X	Cr (267.716 nm)	52.01	-0.0004 u (ppm)	55.6102
6/12/2024 19:47:31	R2404782-014 10X	Cu (327.395 nm)	58.17	-0.0004 u (ppm)	-11.4901
6/12/2024 19:47:31	R2404782-014 10X	Fe (234.350 nm)	0.08	0.0984 (ppm)	725.2392
6/12/2024 19:47:31	R2404782-014 10X	K (766.491 nm)	3.72	0.4053 (ppm)	884.9684
6/12/2024 19:47:31	R2404782-014 10X	Mg (279.078 nm)	0.26	18.2921 (ppm)	45022.8541
6/12/2024 19:47:31	R2404782-014 10X	Mn (257.610 nm)	0.58	0.0075 (ppm)	1617.4614
6/12/2024 19:47:31	R2404782-014 10X	Mo (202.032 nm)	> 100.00	-0.0011 u (ppm)	-3.6517
6/12/2024 19:47:31	R2404782-014 10X	Na (588.995 nm)	0.64	1.9904 (ppm)	34692.9058
6/12/2024 19:47:31	R2404782-014 10X	Ni (230.299 nm)	97.57	-0.0003 u (ppm)	19.1049
6/12/2024 19:47:31	R2404782-014 10X	Pb (220.353 nm)	> 100.00	0.0007 u (ppm)	3.9396
6/12/2024 19:47:31	R2404782-014 10X	Sb (217.582 nm)	> 100.00	0.0035 u (ppm)	0.6285
6/12/2024 19:47:31	R2404782-014 10X	Se (196.026 nm)	> 100.00	0.0020 u (ppm)	3.1083
6/12/2024 19:47:31	R2404782-014 10X	Sn (189.925 nm)	51.92	-0.0037 u (ppm)	-0.9183
6/12/2024 19:47:31	R2404782-014 10X	Sr (216.596 nm)	0.70	1.0800 (ppm)	9822.2943

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 19:47:31	R2404782-014 10X	Ti (336.122 nm)	40.12	0.0002 (ppm)	-142.8666
6/12/2024 19:47:31	R2404782-014 10X	Tl (190.794 nm)	99.07	0.0016 u (ppm)	0.5288
6/12/2024 19:47:31	R2404782-014 10X	V (292.401 nm)	57.72	0.0006 (ppm)	45.5862
6/12/2024 19:47:31	R2404782-014 10X	Y (360.074 nm)	0.12	1.02 (Ratio)	473208.32
6/12/2024 19:47:31	R2404782-014 10X	Y_R (360.074 nm)	0.13	1.02 (Ratio)	471820.26
6/12/2024 19:47:31	R2404782-014 10X	Zn (213.857 nm)	9.60	0.0006 (ppm)	20.8083
6/12/2024 19:50:45	R2404782-015 10X	Ag (328.068 nm)	35.47	0.0003 (ppm)	-67.9867
6/12/2024 19:50:45	R2404782-015 10X	Al (237.312 nm)	13.77	0.0164 (ppm)	94.5799
6/12/2024 19:50:45	R2404782-015 10X	As (188.980 nm)	46.07	-0.0022 u (ppm)	0.0461
6/12/2024 19:50:45	R2404782-015 10X	B (249.772 nm)	1.42	0.0445 (ppm)	1574.1258
6/12/2024 19:50:45	R2404782-015 10X	Ba (230.424 nm)	7.58	0.0008 (ppm)	25.8219
6/12/2024 19:50:45	R2404782-015 10X	Be (313.107 nm)	> 100.00	0.0000 u (ppm)	-345.3002
6/12/2024 19:50:45	R2404782-015 10X	Ca (317.933 nm)	1.85	54.0428 o (ppm)	2011523.1500
6/12/2024 19:50:45	R2404782-015 10X	Cd (214.439 nm)	> 100.00	-0.0001 u (ppm)	5.2820
6/12/2024 19:50:45	R2404782-015 10X	Co (230.786 nm)	> 100.00	-0.0005 u (ppm)	-19.1000
6/12/2024 19:50:45	R2404782-015 10X	Cr (267.716 nm)	39.01	-0.0002 u (ppm)	60.4432
6/12/2024 19:50:45	R2404782-015 10X	Cu (327.395 nm)	19.05	-0.0010 u (ppm)	-32.0831
6/12/2024 19:50:45	R2404782-015 10X	Fe (234.350 nm)	0.23	0.0346 (ppm)	284.2238
6/12/2024 19:50:45	R2404782-015 10X	K (766.491 nm)	5.93	0.3611 (ppm)	784.9737
6/12/2024 19:50:45	R2404782-015 10X	Mg (279.078 nm)	1.73	15.0853 (ppm)	37131.7577
6/12/2024 19:50:45	R2404782-015 10X	Mn (257.610 nm)	1.57	0.0036 (ppm)	783.4816
6/12/2024 19:50:45	R2404782-015 10X	Mo (202.032 nm)	47.77	-0.0017 u (ppm)	-6.3716
6/12/2024 19:50:45	R2404782-015 10X	Na (588.995 nm)	1.63	1.3500 (ppm)	15775.9206
6/12/2024 19:50:45	R2404782-015 10X	Ni (230.299 nm)	> 100.00	0.0007 u (ppm)	28.3522
6/12/2024 19:50:45	R2404782-015 10X	Pb (220.353 nm)	> 100.00	-0.0016 u (ppm)	-1.4508
6/12/2024 19:50:45	R2404782-015 10X	Sb (217.582 nm)	> 100.00	0.0034 u (ppm)	0.5386
6/12/2024 19:50:45	R2404782-015 10X	Se (196.026 nm)	> 100.00	-0.0053 u (ppm)	-1.8953
6/12/2024 19:50:45	R2404782-015 10X	Sn (189.925 nm)	55.78	-0.0020 u (ppm)	0.6754
6/12/2024 19:50:45	R2404782-015 10X	Sr (216.596 nm)	1.59	1.1086 (ppm)	10082.2645
6/12/2024 19:50:45	R2404782-015 10X	Ti (336.122 nm)	24.85	0.0003 (ppm)	-141.1740
6/12/2024 19:50:45	R2404782-015 10X	Tl (190.794 nm)	82.73	0.0017 (ppm)	0.6120
6/12/2024 19:50:45	R2404782-015 10X	V (292.401 nm)	94.20	0.0007 (ppm)	47.5897
6/12/2024 19:50:45	R2404782-015 10X	Y (360.074 nm)	0.19	1.03 (Ratio)	475007.59
6/12/2024 19:50:45	R2404782-015 10X	Y_R (360.074 nm)	0.20	1.02 (Ratio)	473622.95
6/12/2024 19:50:45	R2404782-015 10X	Zn (213.857 nm)	5.97	0.0010 (ppm)	32.5522
6/12/2024 19:53:59	Continuing Calibration Verification	Ag (328.068 nm)	0.20	0.5171 (ppm)	25459.4820
6/12/2024 19:53:59	Continuing Calibration Verification	Al (237.312 nm)	0.30	10.6160 (ppm)	13513.2693
6/12/2024 19:53:59	Continuing Calibration Verification	As (188.980 nm)	1.94	0.9749 (ppm)	943.7244
6/12/2024 19:53:59	Continuing Calibration Verification	B (249.772 nm)	0.37	2.6397 (ppm)	88574.7618
6/12/2024 19:53:59	Continuing Calibration Verification	Ba (230.424 nm)	0.26	10.2293 (ppm)	273932.7190
6/12/2024 19:53:59	Continuing Calibration Verification	Be (313.107 nm)	0.51	0.2593 (ppm)	353441.3087
6/12/2024 19:53:59	Continuing Calibration Verification	Ca (317.933 nm)	0.26	26.0603 (ppm)	971118.3572
6/12/2024 19:53:59	Continuing Calibration Verification	Cd (214.439 nm)	0.28	0.4981 (ppm)	12651.1681
6/12/2024 19:53:59	Continuing Calibration Verification	Co (230.786 nm)	0.47	2.4970 (ppm)	24529.9023
6/12/2024 19:53:59	Continuing Calibration Verification	Cr (267.716 nm)	0.41	0.5079 (ppm)	14629.4899
6/12/2024 19:53:59	Continuing Calibration Verification	Cu (327.395 nm)	0.19	1.3328 (ppm)	46794.4882
6/12/2024 19:53:59	Continuing Calibration Verification	Fe (234.350 nm)	0.44	5.0549 (ppm)	34990.8634
6/12/2024 19:53:59	Continuing Calibration Verification	K (766.491 nm)	0.26	26.1896 (ppm)	59265.8115
6/12/2024 19:53:59	Continuing Calibration Verification	Mg (279.078 nm)	0.32	25.5543 (ppm)	62893.5415
6/12/2024 19:53:59	Continuing Calibration Verification	Mn (257.610 nm)	0.43	0.7440 (ppm)	158935.6145
6/12/2024 19:53:59	Continuing Calibration Verification	Mo (202.032 nm)	1.35	2.6245 (ppm)	11391.1496

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 19:53:59	Continuing Calibration Verification	Na (588.995 nm)	0.36	26.1577 (ppm)	748539.2371
6/12/2024 19:53:59	Continuing Calibration Verification	Ni (230.299 nm)	0.34	2.1033 (ppm)	18324.7468
6/12/2024 19:53:59	Continuing Calibration Verification	Pb (220.353 nm)	0.74	0.5091 (ppm)	1184.3255
6/12/2024 19:53:59	Continuing Calibration Verification	Sb (217.582 nm)	0.17	4.7793 (ppm)	3984.0014
6/12/2024 19:53:59	Continuing Calibration Verification	Se (196.026 nm)	0.26	0.4754 (ppm)	327.0221
6/12/2024 19:53:59	Continuing Calibration Verification	Sn (189.925 nm)	0.33	5.0845 (ppm)	4703.3051
6/12/2024 19:53:59	Continuing Calibration Verification	Sr (216.596 nm)	0.20	2.4604 (ppm)	22355.3968
6/12/2024 19:53:59	Continuing Calibration Verification	Ti (336.122 nm)	0.48	2.6350 (ppm)	371098.2225
6/12/2024 19:53:59	Continuing Calibration Verification	Tl (190.794 nm)	0.35	1.0249 (ppm)	508.7907
6/12/2024 19:53:59	Continuing Calibration Verification	V (292.401 nm)	0.35	2.6648 (ppm)	63489.1628
6/12/2024 19:53:59	Continuing Calibration Verification	Y (360.074 nm)	0.09	0.98 (Ratio)	453234.34
6/12/2024 19:53:59	Continuing Calibration Verification	Y_R (360.074 nm)	0.10	0.97 (Ratio)	451896.33
6/12/2024 19:53:59	Continuing Calibration Verification	Zn (213.857 nm)	0.26	0.9733 (ppm)	29544.4997
6/12/2024 19:57:13	Continuing Calibration Blank	Ag (328.068 nm)	> 100.00	0.0002 u (ppm)	-74.9562
6/12/2024 19:57:13	Continuing Calibration Blank	Al (237.312 nm)	97.60	0.0047 (ppm)	79.7937
6/12/2024 19:57:13	Continuing Calibration Blank	As (188.980 nm)	> 100.00	0.0012 u (ppm)	3.3521
6/12/2024 19:57:13	Continuing Calibration Blank	B (249.772 nm)	44.90	0.0007 (ppm)	105.6483
6/12/2024 19:57:13	Continuing Calibration Blank	Ba (230.424 nm)	> 100.00	-0.0001 u (ppm)	1.6845
6/12/2024 19:57:13	Continuing Calibration Blank	Be (313.107 nm)	63.03	0.0000 u (ppm)	-378.5412
6/12/2024 19:57:13	Continuing Calibration Blank	Ca (317.933 nm)	3.10	-0.0053 u (ppm)	1986.1538
6/12/2024 19:57:13	Continuing Calibration Blank	Cd (214.439 nm)	> 100.00	0.0000 u (ppm)	5.8410
6/12/2024 19:57:13	Continuing Calibration Blank	Co (230.786 nm)	> 100.00	0.0000 u (ppm)	-13.2885
6/12/2024 19:57:13	Continuing Calibration Blank	Cr (267.716 nm)	> 100.00	-0.0001 u (ppm)	63.0291
6/12/2024 19:57:13	Continuing Calibration Blank	Cu (327.395 nm)	> 100.00	-0.0002 u (ppm)	-4.9615
6/12/2024 19:57:13	Continuing Calibration Blank	Fe (234.350 nm)	44.37	0.0014 (ppm)	54.6921
6/12/2024 19:57:13	Continuing Calibration Blank	K (766.491 nm)	> 100.00	0.0134 u (ppm)	-2.2393
6/12/2024 19:57:13	Continuing Calibration Blank	Mg (279.078 nm)	> 100.00	-0.0012 u (ppm)	7.2909
6/12/2024 19:57:13	Continuing Calibration Blank	Mn (257.610 nm)	> 100.00	0.0000 u (ppm)	10.6440
6/12/2024 19:57:13	Continuing Calibration Blank	Mo (202.032 nm)	17.15	0.0132 (ppm)	58.1560
6/12/2024 19:57:13	Continuing Calibration Blank	Na (588.995 nm)	12.95	-0.0195 u (ppm)	-24674.6878
6/12/2024 19:57:13	Continuing Calibration Blank	Ni (230.299 nm)	92.82	-0.0004 u (ppm)	18.4494
6/12/2024 19:57:13	Continuing Calibration Blank	Pb (220.353 nm)	87.34	0.0013 (ppm)	5.4600
6/12/2024 19:57:13	Continuing Calibration Blank	Sb (217.582 nm)	22.04	0.0384 (ppm)	29.7025
6/12/2024 19:57:13	Continuing Calibration Blank	Se (196.026 nm)	> 100.00	-0.0025 u (ppm)	0.0237
6/12/2024 19:57:13	Continuing Calibration Blank	Sn (189.925 nm)	58.28	-0.0027 u (ppm)	-0.0289
6/12/2024 19:57:13	Continuing Calibration Blank	Sr (216.596 nm)	> 100.00	-0.0002 u (ppm)	15.3751
6/12/2024 19:57:13	Continuing Calibration Blank	Ti (336.122 nm)	23.05	0.0032 (ppm)	280.2178
6/12/2024 19:57:13	Continuing Calibration Blank	Tl (190.794 nm)	24.77	-0.0032 u (ppm)	-1.8214
6/12/2024 19:57:13	Continuing Calibration Blank	V (292.401 nm)	70.02	0.0005 (ppm)	43.9791
6/12/2024 19:57:13	Continuing Calibration Blank	Y (360.074 nm)	0.34	1.02 (Ratio)	473708.03
6/12/2024 19:57:13	Continuing Calibration Blank	Y_R (360.074 nm)	0.34	1.02 (Ratio)	472270.79
6/12/2024 19:57:13	Continuing Calibration Blank	Zn (213.857 nm)	55.52	0.0002 (ppm)	7.9091
6/12/2024 20:00:27	PBS-439481	Ag (328.068 nm)	76.04	0.0004 (ppm)	-65.6910
6/12/2024 20:00:27	PBS-439481	Al (237.312 nm)	91.78	0.0037 u (ppm)	78.4837
6/12/2024 20:00:27	PBS-439481	As (188.980 nm)	> 100.00	0.0046 (ppm)	6.5637
6/12/2024 20:00:27	PBS-439481	B (249.772 nm)	43.71	0.0006 (ppm)	104.2697
6/12/2024 20:00:27	PBS-439481	Ba (230.424 nm)	> 100.00	0.0000 u (ppm)	4.7207
6/12/2024 20:00:27	PBS-439481	Be (313.107 nm)	> 100.00	0.0000 u (ppm)	-347.0364
6/12/2024 20:00:27	PBS-439481	Ca (317.933 nm)	1.30	0.0035 (ppm)	2314.3801
6/12/2024 20:00:27	PBS-439481	Cd (214.439 nm)	34.97	0.0002 (ppm)	11.2090
6/12/2024 20:00:27	PBS-439481	Co (230.786 nm)	> 100.00	-0.0002 u (ppm)	-15.3935

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 20:00:27	PBS-439481	Cr (267.716 nm)	39.21	0.0005 (ppm)	81.2558
6/12/2024 20:00:27	PBS-439481	Cu (327.395 nm)	15.21	-0.0004 u (ppm)	-10.8941
6/12/2024 20:00:27	PBS-439481	Fe (234.350 nm)	15.47	0.0050 (ppm)	79.6457
6/12/2024 20:00:27	PBS-439481	K (766.491 nm)	> 100.00	0.0132 u (ppm)	-2.7552
6/12/2024 20:00:27	PBS-439481	Mg (279.078 nm)	65.06	-0.0011 u (ppm)	7.5714
6/12/2024 20:00:27	PBS-439481	Mn (257.610 nm)	45.52	0.0001 (ppm)	36.9796
6/12/2024 20:00:27	PBS-439481	Mo (202.032 nm)	30.03	0.0025 (ppm)	11.8949
6/12/2024 20:00:27	PBS-439481	Na (588.995 nm)	10.47	-0.0334 u (ppm)	-25084.0441
6/12/2024 20:00:27	PBS-439481	Ni (230.299 nm)	88.42	-0.0016 u (ppm)	7.7766
6/12/2024 20:00:27	PBS-439481	Pb (220.353 nm)	> 100.00	0.0005 u (ppm)	3.5640
6/12/2024 20:00:27	PBS-439481	Sb (217.582 nm)	14.51	0.0541 (ppm)	42.8206
6/12/2024 20:00:27	PBS-439481	Se (196.026 nm)	59.23	0.0041 (ppm)	4.5607
6/12/2024 20:00:27	PBS-439481	Sn (189.925 nm)	42.52	0.0096 (ppm)	11.3668
6/12/2024 20:00:27	PBS-439481	Sr (216.596 nm)	23.65	-0.0005 u (ppm)	12.4750
6/12/2024 20:00:27	PBS-439481	Ti (336.122 nm)	32.68	-0.0015 u (ppm)	-391.5842
6/12/2024 20:00:27	PBS-439481	Tl (190.794 nm)	53.96	-0.0022 u (ppm)	-1.3476
6/12/2024 20:00:27	PBS-439481	V (292.401 nm)	80.43	0.0004 (ppm)	41.3201
6/12/2024 20:00:27	PBS-439481	Y (360.074 nm)	0.31	1.01 (Ratio)	465697.21
6/12/2024 20:00:27	PBS-439481	Y_R (360.074 nm)	0.30	1.00 (Ratio)	464176.55
6/12/2024 20:00:27	PBS-439481	Zn (213.857 nm)	75.86	-0.0002 u (ppm)	-3.5565
6/12/2024 20:03:41	LCSS-439481	Ag (328.068 nm)	0.65	0.0493 (ppm)	2348.5086
6/12/2024 20:03:41	LCSS-439481	Al (237.312 nm)	0.79	2.0170 (ppm)	2627.2817
6/12/2024 20:03:41	LCSS-439481	As (188.980 nm)	20.84	0.0269 (ppm)	28.1806
6/12/2024 20:03:41	LCSS-439481	B (249.772 nm)	0.40	0.9957 (ppm)	33462.2674
6/12/2024 20:03:41	LCSS-439481	Ba (230.424 nm)	0.61	1.9766 (ppm)	52935.9627
6/12/2024 20:03:41	LCSS-439481	Be (313.107 nm)	0.17	0.0498 (ppm)	67607.1138
6/12/2024 20:03:41	LCSS-439481	Ca (317.933 nm)	0.44	2.0139 (ppm)	77060.6858
6/12/2024 20:03:41	LCSS-439481	Cd (214.439 nm)	0.42	0.0490 (ppm)	1249.4045
6/12/2024 20:03:41	LCSS-439481	Co (230.786 nm)	0.08	0.4792 (ppm)	4696.2999
6/12/2024 20:03:41	LCSS-439481	Cr (267.716 nm)	0.18	0.1934 (ppm)	5610.2472
6/12/2024 20:03:41	LCSS-439481	Cu (327.395 nm)	0.44	0.2638 (ppm)	9263.8909
6/12/2024 20:03:41	LCSS-439481	Fe (234.350 nm)	0.14	0.9976 (ppm)	6941.4178
6/12/2024 20:03:41	LCSS-439481	K (766.491 nm)	0.56	19.8507 (ppm)	44913.2975
6/12/2024 20:03:41	LCSS-439481	Mg (279.078 nm)	0.33	1.9198 (ppm)	4734.4918
6/12/2024 20:03:41	LCSS-439481	Mn (257.610 nm)	0.29	0.4747 (ppm)	101406.3165
6/12/2024 20:03:41	LCSS-439481	Mo (202.032 nm)	1.52	0.4902 (ppm)	2128.4342
6/12/2024 20:03:41	LCSS-439481	Na (588.995 nm)	0.16	20.1032 (ppm)	569702.5891
6/12/2024 20:03:41	LCSS-439481	Ni (230.299 nm)	0.37	0.5081 (ppm)	4443.3238
6/12/2024 20:03:41	LCSS-439481	Pb (220.353 nm)	0.34	0.4960 (ppm)	1153.8685
6/12/2024 20:03:41	LCSS-439481	Sb (217.582 nm)	1.56	0.4939 (ppm)	409.6131
6/12/2024 20:03:41	LCSS-439481	Se (196.026 nm)	0.30	0.8808 (ppm)	604.4342
6/12/2024 20:03:41	LCSS-439481	Sn (189.925 nm)	0.22	4.8540 (ppm)	4490.1771
6/12/2024 20:03:41	LCSS-439481	Sr (216.596 nm)	0.63	1.8883 (ppm)	17161.1723
6/12/2024 20:03:41	LCSS-439481	Ti (336.122 nm)	0.21	0.5028 (ppm)	70662.8109
6/12/2024 20:03:41	LCSS-439481	Tl (190.794 nm)	0.18	1.9118 (ppm)	949.3113
6/12/2024 20:03:41	LCSS-439481	V (292.401 nm)	0.36	0.5039 (ppm)	12031.1288
6/12/2024 20:03:41	LCSS-439481	Y (360.074 nm)	0.34	1.00 (Ratio)	462353.05
6/12/2024 20:03:41	LCSS-439481	Y_R (360.074 nm)	0.35	0.99 (Ratio)	460810.71
6/12/2024 20:03:41	LCSS-439481	Zn (213.857 nm)	0.56	0.4671 (ppm)	14178.9416
6/12/2024 20:06:55	R2404731-001 100X	Ag (328.068 nm)	5.28	0.0005 (ppm)	-61.6482
6/12/2024 20:06:55	R2404731-001 100X	Al (237.312 nm)	5.90	0.1331 (ppm)	242.3087

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 20:06:55	R2404731-001 100X	As (188.980 nm)	> 100.00	-0.0008 u (ppm)	1.3802
6/12/2024 20:06:55	R2404731-001 100X	B (249.772 nm)	> 100.00	-0.0001 u (ppm)	79.0109
6/12/2024 20:06:55	R2404731-001 100X	Ba (230.424 nm)	23.57	0.0018 (ppm)	52.6804
6/12/2024 20:06:55	R2404731-001 100X	Be (313.107 nm)	42.78	0.0000 (ppm)	-317.5422
6/12/2024 20:06:55	R2404731-001 100X	Ca (317.933 nm)	0.30	33.5593 (ppm)	1249936.5794
6/12/2024 20:06:55	R2404731-001 100X	Cd (214.439 nm)	> 100.00	-0.0001 u (ppm)	5.1646
6/12/2024 20:06:55	R2404731-001 100X	Co (230.786 nm)	> 100.00	-0.0003 u (ppm)	-16.4523
6/12/2024 20:06:55	R2404731-001 100X	Cr (267.716 nm)	97.16	-0.0003 u (ppm)	57.9861
6/12/2024 20:06:55	R2404731-001 100X	Cu (327.395 nm)	3.75	0.0111 (ppm)	391.0776
6/12/2024 20:06:55	R2404731-001 100X	Fe (234.350 nm)	0.24	0.3568 (ppm)	2511.9180
6/12/2024 20:06:55	R2404731-001 100X	K (766.491 nm)	> 100.00	0.0154 u (ppm)	2.1116
6/12/2024 20:06:55	R2404731-001 100X	Mg (279.078 nm)	1.19	0.1508 (ppm)	381.2426
6/12/2024 20:06:55	R2404731-001 100X	Mn (257.610 nm)	0.32	0.0068 (ppm)	1456.9166
6/12/2024 20:06:55	R2404731-001 100X	Mo (202.032 nm)	38.54	0.0042 (ppm)	19.3807
6/12/2024 20:06:55	R2404731-001 100X	Na (588.995 nm)	3.68	0.2951 (ppm)	-15383.0729
6/12/2024 20:06:55	R2404731-001 100X	Ni (230.299 nm)	> 100.00	0.0004 u (ppm)	25.2121
6/12/2024 20:06:55	R2404731-001 100X	Pb (220.353 nm)	> 100.00	-0.0010 u (ppm)	-0.0117
6/12/2024 20:06:55	R2404731-001 100X	Sb (217.582 nm)	12.30	0.0121 (ppm)	7.7886
6/12/2024 20:06:55	R2404731-001 100X	Se (196.026 nm)	> 100.00	0.0008 u (ppm)	2.3069
6/12/2024 20:06:55	R2404731-001 100X	Sn (189.925 nm)	> 100.00	-0.0017 u (ppm)	0.8886
6/12/2024 20:06:55	R2404731-001 100X	Sr (216.596 nm)	2.76	0.0166 (ppm)	167.6702
6/12/2024 20:06:55	R2404731-001 100X	Ti (336.122 nm)	0.53	0.0106 (ppm)	1318.0526
6/12/2024 20:06:55	R2404731-001 100X	Tl (190.794 nm)	> 100.00	0.0032 (ppm)	1.3233
6/12/2024 20:06:55	R2404731-001 100X	V (292.401 nm)	72.59	0.0008 (ppm)	49.9192
6/12/2024 20:06:55	R2404731-001 100X	Y (360.074 nm)	0.43	1.02 (Ratio)	470154.22
6/12/2024 20:06:55	R2404731-001 100X	Y_R (360.074 nm)	0.44	1.01 (Ratio)	468561.67
6/12/2024 20:06:55	R2404731-001 100X	Zn (213.857 nm)	12.05	0.0011 (ppm)	34.6168
6/12/2024 20:10:09	R2404731-001S 100X	Ag (328.068 nm)	24.55	0.0010 (ppm)	-35.9325
6/12/2024 20:10:09	R2404731-001S 100X	Al (237.312 nm)	2.55	0.1456 (ppm)	258.2053
6/12/2024 20:10:09	R2404731-001S 100X	As (188.980 nm)	> 100.00	-0.0007 u (ppm)	1.5075
6/12/2024 20:10:09	R2404731-001S 100X	B (249.772 nm)	2.69	0.0099 (ppm)	414.1382
6/12/2024 20:10:09	R2404731-001S 100X	Ba (230.424 nm)	0.76	0.0221 (ppm)	595.1945
6/12/2024 20:10:09	R2404731-001S 100X	Be (313.107 nm)	2.03	0.0005 (ppm)	369.6170
6/12/2024 20:10:09	R2404731-001S 100X	Ca (317.933 nm)	0.20	30.9099 (ppm)	1151428.8923
6/12/2024 20:10:09	R2404731-001S 100X	Cd (214.439 nm)	43.39	0.0005 (ppm)	19.7772
6/12/2024 20:10:09	R2404731-001S 100X	Co (230.786 nm)	18.32	0.0049 (ppm)	34.7781
6/12/2024 20:10:09	R2404731-001S 100X	Cr (267.716 nm)	23.84	0.0016 (ppm)	112.3368
6/12/2024 20:10:09	R2404731-001S 100X	Cu (327.395 nm)	0.93	0.0116 (ppm)	410.4664
6/12/2024 20:10:09	R2404731-001S 100X	Fe (234.350 nm)	0.10	0.3331 (ppm)	2347.9669
6/12/2024 20:10:09	R2404731-001S 100X	K (766.491 nm)	5.40	0.2134 (ppm)	450.6485
6/12/2024 20:10:09	R2404731-001S 100X	Mg (279.078 nm)	1.49	0.1804 (ppm)	454.0485
6/12/2024 20:10:09	R2404731-001S 100X	Mn (257.610 nm)	0.24	0.0117 (ppm)	2495.8270
6/12/2024 20:10:09	R2404731-001S 100X	Mo (202.032 nm)	30.16	0.0051 (ppm)	23.2107
6/12/2024 20:10:09	R2404731-001S 100X	Na (588.995 nm)	1.43	0.4752 (ppm)	-10061.2683
6/12/2024 20:10:09	R2404731-001S 100X	Ni (230.299 nm)	20.81	0.0059 (ppm)	73.8218
6/12/2024 20:10:09	R2404731-001S 100X	Pb (220.353 nm)	11.88	0.0056 (ppm)	15.3903
6/12/2024 20:10:09	R2404731-001S 100X	Sb (217.582 nm)	17.25	0.0099 (ppm)	5.9376
6/12/2024 20:10:09	R2404731-001S 100X	Se (196.026 nm)	> 100.00	0.0058 u (ppm)	5.7639
6/12/2024 20:10:09	R2404731-001S 100X	Sn (189.925 nm)	7.05	0.0502 (ppm)	48.8885
6/12/2024 20:10:09	R2404731-001S 100X	Sr (216.596 nm)	1.64	0.0356 (ppm)	339.8601
6/12/2024 20:10:09	R2404731-001S 100X	Ti (336.122 nm)	0.75	0.0152 (ppm)	1963.6523

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 20:10:09	R2404731-001S 100X	Tl (190.794 nm)	39.73	0.0183 (ppm)	8.8218
6/12/2024 20:10:09	R2404731-001S 100X	V (292.401 nm)	7.56	0.0059 (ppm)	171.0027
6/12/2024 20:10:09	R2404731-001S 100X	Y (360.074 nm)	0.28	1.01 (Ratio)	467283.11
6/12/2024 20:10:09	R2404731-001S 100X	Y_R (360.074 nm)	0.29	1.00 (Ratio)	465666.96
6/12/2024 20:10:09	R2404731-001S 100X	Zn (213.857 nm)	2.98	0.0057 (ppm)	175.5649
6/12/2024 20:13:23	R2404731-001SD 100X	Ag (328.068 nm)	26.69	0.0013 (ppm)	-18.9826
6/12/2024 20:13:23	R2404731-001SD 100X	Al (237.312 nm)	2.34	0.1458 (ppm)	258.3742
6/12/2024 20:13:23	R2404731-001SD 100X	As (188.980 nm)	> 100.00	-0.0003 u (ppm)	1.8454
6/12/2024 20:13:23	R2404731-001SD 100X	B (249.772 nm)	5.43	0.0099 (ppm)	414.5923
6/12/2024 20:13:23	R2404731-001SD 100X	Ba (230.424 nm)	1.54	0.0221 (ppm)	594.5071
6/12/2024 20:13:23	R2404731-001SD 100X	Be (313.107 nm)	4.66	0.0005 (ppm)	364.7084
6/12/2024 20:13:23	R2404731-001SD 100X	Ca (317.933 nm)	0.45	31.6695 (ppm)	1179670.4850
6/12/2024 20:13:23	R2404731-001SD 100X	Cd (214.439 nm)	35.35	0.0006 (ppm)	21.1999
6/12/2024 20:13:23	R2404731-001SD 100X	Co (230.786 nm)	17.52	0.0043 (ppm)	28.6357
6/12/2024 20:13:23	R2404731-001SD 100X	Cr (267.716 nm)	9.52	0.0021 (ppm)	127.0922
6/12/2024 20:13:23	R2404731-001SD 100X	Cu (327.395 nm)	1.48	0.0140 (ppm)	494.2800
6/12/2024 20:13:23	R2404731-001SD 100X	Fe (234.350 nm)	0.72	0.3123 (ppm)	2204.0113
6/12/2024 20:13:23	R2404731-001SD 100X	K (766.491 nm)	3.97	0.2072 (ppm)	436.4094
6/12/2024 20:13:23	R2404731-001SD 100X	Mg (279.078 nm)	0.42	0.1701 (ppm)	428.7319
6/12/2024 20:13:23	R2404731-001SD 100X	Mn (257.610 nm)	0.56	0.0115 (ppm)	2454.9013
6/12/2024 20:13:23	R2404731-001SD 100X	Mo (202.032 nm)	4.12	0.0054 (ppm)	24.3893
6/12/2024 20:13:23	R2404731-001SD 100X	Na (588.995 nm)	0.77	0.4750 (ppm)	-10069.0927
6/12/2024 20:13:23	R2404731-001SD 100X	Ni (230.299 nm)	16.95	0.0053 (ppm)	68.1773
6/12/2024 20:13:23	R2404731-001SD 100X	Pb (220.353 nm)	39.18	0.0060 (ppm)	16.2832
6/12/2024 20:13:23	R2404731-001SD 100X	Sb (217.582 nm)	46.56	0.0110 (ppm)	6.8711
6/12/2024 20:13:23	R2404731-001SD 100X	Se (196.026 nm)	62.96	0.0090 (ppm)	7.9256
6/12/2024 20:13:23	R2404731-001SD 100X	Sn (189.925 nm)	4.58	0.0464 (ppm)	45.4225
6/12/2024 20:13:23	R2404731-001SD 100X	Sr (216.596 nm)	2.31	0.0357 (ppm)	341.2387
6/12/2024 20:13:23	R2404731-001SD 100X	Ti (336.122 nm)	0.67	0.0140 (ppm)	1797.6560
6/12/2024 20:13:23	R2404731-001SD 100X	Tl (190.794 nm)	13.56	0.0184 (ppm)	8.9006
6/12/2024 20:13:23	R2404731-001SD 100X	V (292.401 nm)	12.61	0.0061 (ppm)	176.9064
6/12/2024 20:13:23	R2404731-001SD 100X	Y (360.074 nm)	0.29	1.01 (Ratio)	467187.10
6/12/2024 20:13:23	R2404731-001SD 100X	Y_R (360.074 nm)	0.30	1.00 (Ratio)	465517.99
6/12/2024 20:13:23	R2404731-001SD 100X	Zn (213.857 nm)	3.01	0.0059 (ppm)	180.3601
6/12/2024 20:16:37	R2404731-001A 100X	Ag (328.068 nm)	1.19	0.0486 (ppm)	2315.7112
6/12/2024 20:16:37	R2404731-001A 100X	Al (237.312 nm)	0.45	2.1340 (ppm)	2775.4319
6/12/2024 20:16:37	R2404731-001A 100X	As (188.980 nm)	19.71	0.0359 (ppm)	36.8159
6/12/2024 20:16:37	R2404731-001A 100X	B (249.772 nm)	0.18	1.0200 (ppm)	34277.6100
6/12/2024 20:16:37	R2404731-001A 100X	Ba (230.424 nm)	0.37	1.9156 (ppm)	51302.6138
6/12/2024 20:16:37	R2404731-001A 100X	Be (313.107 nm)	0.23	0.0497 (ppm)	67386.0108
6/12/2024 20:16:37	R2404731-001A 100X	Ca (317.933 nm)	0.35	33.9623 (ppm)	1264918.8208
6/12/2024 20:16:37	R2404731-001A 100X	Cd (214.439 nm)	0.59	0.0480 (ppm)	1226.0874
6/12/2024 20:16:37	R2404731-001A 100X	Co (230.786 nm)	0.35	0.4680 (ppm)	4586.2004
6/12/2024 20:16:37	R2404731-001A 100X	Cr (267.716 nm)	0.72	0.1889 (ppm)	5481.4269
6/12/2024 20:16:37	R2404731-001A 100X	Cu (327.395 nm)	0.31	0.2604 (ppm)	9145.5500
6/12/2024 20:16:37	R2404731-001A 100X	Fe (234.350 nm)	0.04	1.3022 (ppm)	9047.3990
6/12/2024 20:16:37	R2404731-001A 100X	K (766.491 nm)	0.56	19.6413 (ppm)	44439.0238
6/12/2024 20:16:37	R2404731-001A 100X	Mg (279.078 nm)	0.09	2.0456 (ppm)	5043.9406
6/12/2024 20:16:37	R2404731-001A 100X	Mn (257.610 nm)	0.38	0.4727 (ppm)	100973.9615
6/12/2024 20:16:37	R2404731-001A 100X	Mo (202.032 nm)	1.62	0.4801 (ppm)	2084.7818
6/12/2024 20:16:37	R2404731-001A 100X	Na (588.995 nm)	0.60	20.0556 (ppm)	568297.7309

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 20:16:37	R2404731-001A 100X	Ni (230.299 nm)	0.33	0.4960 (ppm)	4338.5103
6/12/2024 20:16:37	R2404731-001A 100X	Pb (220.353 nm)	0.37	0.4908 (ppm)	1141.6920
6/12/2024 20:16:37	R2404731-001A 100X	Sb (217.582 nm)	1.68	0.4909 (ppm)	407.1509
6/12/2024 20:16:37	R2404731-001A 100X	Se (196.026 nm)	1.78	1.0213 (ppm)	700.5955
6/12/2024 20:16:37	R2404731-001A 100X	Sn (189.925 nm)	0.36	4.9637 (ppm)	4591.6593
6/12/2024 20:16:37	R2404731-001A 100X	Sr (216.596 nm)	0.16	1.9209 (ppm)	17457.5630
6/12/2024 20:16:37	R2404731-001A 100X	Ti (336.122 nm)	0.03	0.5117 (ppm)	71922.0208
6/12/2024 20:16:37	R2404731-001A 100X	Tl (190.794 nm)	0.66	1.9052 (ppm)	946.0601
6/12/2024 20:16:37	R2404731-001A 100X	V (292.401 nm)	0.44	0.4939 (ppm)	11793.0412
6/12/2024 20:16:37	R2404731-001A 100X	Y (360.074 nm)	0.20	1.00 (Ratio)	462028.94
6/12/2024 20:16:37	R2404731-001A 100X	Y_R (360.074 nm)	0.21	0.99 (Ratio)	460444.33
6/12/2024 20:16:37	R2404731-001A 100X	Zn (213.857 nm)	0.38	0.4691 (ppm)	14240.2998
6/12/2024 20:19:51	R2404731-001L 500X	Ag (328.068 nm)	25.55	0.0006 (ppm)	-55.1673
6/12/2024 20:19:51	R2404731-001L 500X	Al (237.312 nm)	18.00	0.0325 (ppm)	114.9978
6/12/2024 20:19:51	R2404731-001L 500X	As (188.980 nm)	> 100.00	-0.0012 u (ppm)	0.9628
6/12/2024 20:19:51	R2404731-001L 500X	B (249.772 nm)	29.73	-0.0005 u (ppm)	67.4363
6/12/2024 20:19:51	R2404731-001L 500X	Ba (230.424 nm)	97.50	0.0001 u (ppm)	7.8395
6/12/2024 20:19:51	R2404731-001L 500X	Be (313.107 nm)	80.81	0.0000 (ppm)	-349.4476
6/12/2024 20:19:51	R2404731-001L 500X	Ca (317.933 nm)	0.62	6.9006 (ppm)	258750.3628
6/12/2024 20:19:51	R2404731-001L 500X	Cd (214.439 nm)	> 100.00	0.0000 u (ppm)	6.7405
6/12/2024 20:19:51	R2404731-001L 500X	Co (230.786 nm)	> 100.00	-0.0002 u (ppm)	-16.0567
6/12/2024 20:19:51	R2404731-001L 500X	Cr (267.716 nm)	> 100.00	-0.0005 u (ppm)	53.0142
6/12/2024 20:19:51	R2404731-001L 500X	Cu (327.395 nm)	19.32	0.0017 (ppm)	63.6483
6/12/2024 20:19:51	R2404731-001L 500X	Fe (234.350 nm)	1.98	0.0729 (ppm)	548.9531
6/12/2024 20:19:51	R2404731-001L 500X	K (766.491 nm)	12.47	0.0285 (ppm)	31.9057
6/12/2024 20:19:51	R2404731-001L 500X	Mg (279.078 nm)	6.45	0.0317 (ppm)	88.3238
6/12/2024 20:19:51	R2404731-001L 500X	Mn (257.610 nm)	0.89	0.0014 (ppm)	301.4574
6/12/2024 20:19:51	R2404731-001L 500X	Mo (202.032 nm)	20.41	0.0067 (ppm)	30.1184
6/12/2024 20:19:51	R2404731-001L 500X	Na (588.995 nm)	32.89	0.0307 (ppm)	-23192.5057
6/12/2024 20:19:51	R2404731-001L 500X	Ni (230.299 nm)	> 100.00	0.0003 u (ppm)	24.8702
6/12/2024 20:19:51	R2404731-001L 500X	Pb (220.353 nm)	> 100.00	0.0001 u (ppm)	2.4883
6/12/2024 20:19:51	R2404731-001L 500X	Sb (217.582 nm)	66.34	0.0050 (ppm)	1.8930
6/12/2024 20:19:51	R2404731-001L 500X	Se (196.026 nm)	49.99	0.0092 (ppm)	8.0518
6/12/2024 20:19:51	R2404731-001L 500X	Sn (189.925 nm)	76.62	0.0013 (ppm)	3.7163
6/12/2024 20:19:51	R2404731-001L 500X	Sr (216.596 nm)	29.00	0.0029 (ppm)	43.4291
6/12/2024 20:19:51	R2404731-001L 500X	Ti (336.122 nm)	5.67	0.0027 (ppm)	203.5293
6/12/2024 20:19:51	R2404731-001L 500X	Tl (190.794 nm)	> 100.00	-0.0020 u (ppm)	-1.2518
6/12/2024 20:19:51	R2404731-001L 500X	V (292.401 nm)	80.09	0.0004 (ppm)	41.8395
6/12/2024 20:19:51	R2404731-001L 500X	Y (360.074 nm)	0.57	1.01 (Ratio)	467561.66
6/12/2024 20:19:51	R2404731-001L 500X	Y_R (360.074 nm)	0.59	1.00 (Ratio)	465825.89
6/12/2024 20:19:51	R2404731-001L 500X	Zn (213.857 nm)	58.88	0.0004 (ppm)	12.2159
6/12/2024 20:23:04	R2404731-002 100X	Ag (328.068 nm)	40.97	0.0004 (ppm)	-63.0012
6/12/2024 20:23:04	R2404731-002 100X	Al (237.312 nm)	2.83	0.1135 (ppm)	217.5109
6/12/2024 20:23:04	R2404731-002 100X	As (188.980 nm)	48.41	-0.0033 u (ppm)	-1.0573
6/12/2024 20:23:04	R2404731-002 100X	B (249.772 nm)	48.57	-0.0008 u (ppm)	57.8171
6/12/2024 20:23:04	R2404731-002 100X	Ba (230.424 nm)	12.58	0.0018 (ppm)	53.0010
6/12/2024 20:23:04	R2404731-002 100X	Be (313.107 nm)	> 100.00	0.0000 u (ppm)	-347.1041
6/12/2024 20:23:04	R2404731-002 100X	Ca (317.933 nm)	0.51	30.5035 (ppm)	1136320.2250
6/12/2024 20:23:04	R2404731-002 100X	Cd (214.439 nm)	> 100.00	0.0000 u (ppm)	7.7239
6/12/2024 20:23:04	R2404731-002 100X	Co (230.786 nm)	64.28	-0.0006 u (ppm)	-19.7472
6/12/2024 20:23:04	R2404731-002 100X	Cr (267.716 nm)	> 100.00	0.0000 u (ppm)	66.1584

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 20:23:04	R2404731-002 100X	Cu (327.395 nm)	1.67	0.0095 (ppm)	336.2754
6/12/2024 20:23:04	R2404731-002 100X	Fe (234.350 nm)	0.43	0.2785 (ppm)	1970.4390
6/12/2024 20:23:04	R2404731-002 100X	K (766.491 nm)	79.59	0.0168 (ppm)	5.4533
6/12/2024 20:23:04	R2404731-002 100X	Mg (279.078 nm)	1.11	0.1102 (ppm)	281.2994
6/12/2024 20:23:04	R2404731-002 100X	Mn (257.610 nm)	0.57	0.0064 (ppm)	1374.3043
6/12/2024 20:23:04	R2404731-002 100X	Mo (202.032 nm)	> 100.00	0.0007 (ppm)	4.0041
6/12/2024 20:23:04	R2404731-002 100X	Na (588.995 nm)	1.95	0.2412 (ppm)	-16973.2480
6/12/2024 20:23:04	R2404731-002 100X	Ni (230.299 nm)	> 100.00	0.0004 u (ppm)	25.2390
6/12/2024 20:23:04	R2404731-002 100X	Pb (220.353 nm)	> 100.00	0.0002 u (ppm)	2.9194
6/12/2024 20:23:04	R2404731-002 100X	Sb (217.582 nm)	55.44	0.0074 (ppm)	3.9093
6/12/2024 20:23:04	R2404731-002 100X	Se (196.026 nm)	> 100.00	-0.0037 u (ppm)	-0.7819
6/12/2024 20:23:04	R2404731-002 100X	Sn (189.925 nm)	53.33	-0.0011 u (ppm)	1.4615
6/12/2024 20:23:04	R2404731-002 100X	Sr (216.596 nm)	2.77	0.0160 (ppm)	162.0641
6/12/2024 20:23:04	R2404731-002 100X	Ti (336.122 nm)	0.34	0.0105 (ppm)	1301.0573
6/12/2024 20:23:04	R2404731-002 100X	Tl (190.794 nm)	81.76	0.0037 (ppm)	1.5952
6/12/2024 20:23:04	R2404731-002 100X	V (292.401 nm)	30.99	0.0009 (ppm)	53.0168
6/12/2024 20:23:04	R2404731-002 100X	Y (360.074 nm)	0.13	1.00 (Ratio)	464784.00
6/12/2024 20:23:04	R2404731-002 100X	Y_R (360.074 nm)	0.13	1.00 (Ratio)	463023.63
6/12/2024 20:23:04	R2404731-002 100X	Zn (213.857 nm)	7.61	0.0015 (ppm)	45.9167
6/12/2024 20:26:18	R2404750-001	Ag (328.068 nm)	5.86	0.0046 (ppm)	141.8725
6/12/2024 20:26:18	R2404750-001	Al (237.312 nm)	0.14	9.5729 (ppm)	12192.7272
6/12/2024 20:26:18	R2404750-001	As (188.980 nm)	35.24	0.0113 (ppm)	13.0586
6/12/2024 20:26:18	R2404750-001	B (249.772 nm)	0.58	0.0828 (ppm)	2859.6172
6/12/2024 20:26:18	R2404750-001	Ba (230.424 nm)	0.72	1.4279 (ppm)	38242.7666
6/12/2024 20:26:18	R2404750-001	Be (313.107 nm)	4.66	0.0003 (ppm)	81.0313
6/12/2024 20:26:18	R2404750-001	Ca (317.933 nm)	0.08	70.9044 o (ppm)	2638448.1324
6/12/2024 20:26:18	R2404750-001	Cd (214.439 nm)	1.52	0.0035 (ppm)	94.4025
6/12/2024 20:26:18	R2404750-001	Co (230.786 nm)	6.42	0.0059 (ppm)	44.7014
6/12/2024 20:26:18	R2404750-001	Cr (267.716 nm)	0.22	0.0991 (ppm)	2907.6304
6/12/2024 20:26:18	R2404750-001	Cu (327.395 nm)	0.40	1.2679 (ppm)	44515.8134
6/12/2024 20:26:18	R2404750-001	Fe (234.350 nm)	0.07	61.8468 o (ppm)	427611.9592
6/12/2024 20:26:18	R2404750-001	K (766.491 nm)	0.61	2.7620 (ppm)	6220.9875
6/12/2024 20:26:18	R2404750-001	Mg (279.078 nm)	0.31	10.9168 (ppm)	26873.8894
6/12/2024 20:26:18	R2404750-001	Mn (257.610 nm)	0.17	1.4026 (ppm)	299599.9032
6/12/2024 20:26:18	R2404750-001	Mo (202.032 nm)	3.73	0.0388 (ppm)	169.3845
6/12/2024 20:26:18	R2404750-001	Na (588.995 nm)	0.70	1.8066 (ppm)	29265.0787
6/12/2024 20:26:18	R2404750-001	Ni (230.299 nm)	4.49	0.0329 (ppm)	308.3854
6/12/2024 20:26:18	R2404750-001	Pb (220.353 nm)	1.19	0.0655 (ppm)	154.5232
6/12/2024 20:26:18	R2404750-001	Sb (217.582 nm)	65.74	0.0160 (ppm)	11.0367
6/12/2024 20:26:18	R2404750-001	Se (196.026 nm)	12.68	0.0177 (ppm)	13.8980
6/12/2024 20:26:18	R2404750-001	Sn (189.925 nm)	1.50	0.1097 (ppm)	103.8981
6/12/2024 20:26:18	R2404750-001	Sr (216.596 nm)	0.43	0.2758 (ppm)	2520.9363
6/12/2024 20:26:18	R2404750-001	Ti (336.122 nm)	0.36	0.1404 (ppm)	19606.5276
6/12/2024 20:26:18	R2404750-001	Tl (190.794 nm)	71.27	-0.0079 u (ppm)	-4.1630
6/12/2024 20:26:18	R2404750-001	V (292.401 nm)	1.27	0.0304 (ppm)	755.1299
6/12/2024 20:26:18	R2404750-001	Y (360.074 nm)	0.34	0.99 (Ratio)	456769.63
6/12/2024 20:26:18	R2404750-001	Y_R (360.074 nm)	0.34	0.98 (Ratio)	454943.12
6/12/2024 20:26:18	R2404750-001	Zn (213.857 nm)	0.78	2.7088 o (ppm)	82220.7620
6/12/2024 20:29:32	R2404750-002 10X	Ag (328.068 nm)	4.91	0.0020 (ppm)	11.4366
6/12/2024 20:29:32	R2404750-002 10X	Al (237.312 nm)	0.30	2.2911 (ppm)	2974.3189
6/12/2024 20:29:32	R2404750-002 10X	As (188.980 nm)	78.57	0.0025 (ppm)	4.5340

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 20:29:32	R2404750-002 10X	B (249.772 nm)	1.34	0.0403 (ppm)	1435.6129
6/12/2024 20:29:32	R2404750-002 10X	Ba (230.424 nm)	0.87	0.4226 (ppm)	11320.7125
6/12/2024 20:29:32	R2404750-002 10X	Be (313.107 nm)	10.63	0.0001 (ppm)	-232.2210
6/12/2024 20:29:32	R2404750-002 10X	Ca (317.933 nm)	0.28	20.5189 (ppm)	765085.7619
6/12/2024 20:29:32	R2404750-002 10X	Cd (214.439 nm)	28.85	0.0007 (ppm)	23.9114
6/12/2024 20:29:32	R2404750-002 10X	Co (230.786 nm)	77.10	0.0006 (ppm)	-8.0090
6/12/2024 20:29:32	R2404750-002 10X	Cr (267.716 nm)	0.78	0.0394 (ppm)	1197.0042
6/12/2024 20:29:32	R2404750-002 10X	Cu (327.395 nm)	0.47	0.3844 (ppm)	13498.9790
6/12/2024 20:29:32	R2404750-002 10X	Fe (234.350 nm)	0.50	33.5482 o (ppm)	231974.8361
6/12/2024 20:29:32	R2404750-002 10X	K (766.491 nm)	0.90	1.1620 (ppm)	2598.2932
6/12/2024 20:29:32	R2404750-002 10X	Mg (279.078 nm)	0.52	2.5345 (ppm)	6246.9241
6/12/2024 20:29:32	R2404750-002 10X	Mn (257.610 nm)	0.38	0.7259 (ppm)	155052.4320
6/12/2024 20:29:32	R2404750-002 10X	Mo (202.032 nm)	6.66	0.0071 (ppm)	31.7371
6/12/2024 20:29:32	R2404750-002 10X	Na (588.995 nm)	0.72	0.6756 (ppm)	-4144.0475
6/12/2024 20:29:32	R2404750-002 10X	Ni (230.299 nm)	10.74	0.0125 (ppm)	130.8516
6/12/2024 20:29:32	R2404750-002 10X	Pb (220.353 nm)	4.67	0.0232 (ppm)	56.1274
6/12/2024 20:29:32	R2404750-002 10X	Sb (217.582 nm)	> 100.00	0.0023 u (ppm)	-0.3844
6/12/2024 20:29:32	R2404750-002 10X	Se (196.026 nm)	> 100.00	0.0013 u (ppm)	2.6623
6/12/2024 20:29:32	R2404750-002 10X	Sn (189.925 nm)	9.91	0.0314 (ppm)	31.5503
6/12/2024 20:29:32	R2404750-002 10X	Sr (216.596 nm)	0.93	0.0910 (ppm)	842.8258
6/12/2024 20:29:32	R2404750-002 10X	Ti (336.122 nm)	0.78	0.0372 (ppm)	5061.2059
6/12/2024 20:29:32	R2404750-002 10X	Tl (190.794 nm)	> 100.00	-0.0002 u (ppm)	-0.3425
6/12/2024 20:29:32	R2404750-002 10X	V (292.401 nm)	3.52	0.0089 (ppm)	242.6430
6/12/2024 20:29:32	R2404750-002 10X	Y (360.074 nm)	0.27	1.03 (Ratio)	475966.58
6/12/2024 20:29:32	R2404750-002 10X	Y_R (360.074 nm)	0.29	1.02 (Ratio)	474057.82
6/12/2024 20:29:32	R2404750-002 10X	Zn (213.857 nm)	0.81	0.8897 (ppm)	27005.0813
6/12/2024 20:32:46	Continuing Calibration Verification	Ag (328.068 nm)	0.30	0.5157 (ppm)	25394.2271
6/12/2024 20:32:46	Continuing Calibration Verification	Al (237.312 nm)	0.11	10.6568 (ppm)	13564.8773
6/12/2024 20:32:46	Continuing Calibration Verification	As (188.980 nm)	0.86	0.9905 (ppm)	958.7662
6/12/2024 20:32:46	Continuing Calibration Verification	B (249.772 nm)	0.22	2.6547 (ppm)	89077.0369
6/12/2024 20:32:46	Continuing Calibration Verification	Ba (230.424 nm)	0.15	10.2543 (ppm)	274603.2525
6/12/2024 20:32:46	Continuing Calibration Verification	Be (313.107 nm)	0.26	0.2609 (ppm)	355619.3734
6/12/2024 20:32:46	Continuing Calibration Verification	Ca (317.933 nm)	0.27	26.2454 (ppm)	977999.4795
6/12/2024 20:32:46	Continuing Calibration Verification	Cd (214.439 nm)	0.15	0.4977 (ppm)	12641.4087
6/12/2024 20:32:46	Continuing Calibration Verification	Co (230.786 nm)	0.25	2.4865 (ppm)	24426.3489
6/12/2024 20:32:46	Continuing Calibration Verification	Cr (267.716 nm)	0.35	0.5054 (ppm)	14558.0265
6/12/2024 20:32:46	Continuing Calibration Verification	Cu (327.395 nm)	0.20	1.3369 (ppm)	46938.0730
6/12/2024 20:32:46	Continuing Calibration Verification	Fe (234.350 nm)	0.07	5.0942 (ppm)	35263.1159
6/12/2024 20:32:46	Continuing Calibration Verification	K (766.491 nm)	0.08	26.4975 (ppm)	59962.9100
6/12/2024 20:32:46	Continuing Calibration Verification	Mg (279.078 nm)	0.21	25.6417 (ppm)	63108.6635
6/12/2024 20:32:46	Continuing Calibration Verification	Mn (257.610 nm)	0.14	0.7452 (ppm)	159176.4382
6/12/2024 20:32:46	Continuing Calibration Verification	Mo (202.032 nm)	1.07	2.6272 (ppm)	11403.0630
6/12/2024 20:32:46	Continuing Calibration Verification	Na (588.995 nm)	0.12	26.4151 (ppm)	756143.0888
6/12/2024 20:32:46	Continuing Calibration Verification	Ni (230.299 nm)	0.33	2.1066 (ppm)	18353.4249
6/12/2024 20:32:46	Continuing Calibration Verification	Pb (220.353 nm)	0.20	0.5091 (ppm)	1184.3712
6/12/2024 20:32:46	Continuing Calibration Verification	Sb (217.582 nm)	0.41	4.7991 (ppm)	4000.5061
6/12/2024 20:32:46	Continuing Calibration Verification	Se (196.026 nm)	0.68	0.4813 (ppm)	331.0663
6/12/2024 20:32:46	Continuing Calibration Verification	Sn (189.925 nm)	0.25	5.0556 (ppm)	4676.6489
6/12/2024 20:32:46	Continuing Calibration Verification	Sr (216.596 nm)	0.63	2.4604 (ppm)	22355.9361
6/12/2024 20:32:46	Continuing Calibration Verification	Ti (336.122 nm)	0.42	2.6318 (ppm)	370648.1230
6/12/2024 20:32:46	Continuing Calibration Verification	Tl (190.794 nm)	0.12	1.0393 (ppm)	515.9403

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 20:32:46	Continuing Calibration Verification	V (292.401 nm)	0.13	2.6904 (ppm)	64098.5961
6/12/2024 20:32:46	Continuing Calibration Verification	Y (360.074 nm)	0.25	0.97 (Ratio)	449468.50
6/12/2024 20:32:46	Continuing Calibration Verification	Y_R (360.074 nm)	0.25	0.96 (Ratio)	447615.13
6/12/2024 20:32:46	Continuing Calibration Verification	Zn (213.857 nm)	0.14	0.9717 (ppm)	29495.9707
6/12/2024 20:35:59	Continuing Calibration Blank	Ag (328.068 nm)	43.09	0.0005 (ppm)	-57.8919
6/12/2024 20:35:59	Continuing Calibration Blank	Al (237.312 nm)	> 100.00	0.0012 u (ppm)	75.4029
6/12/2024 20:35:59	Continuing Calibration Blank	As (188.980 nm)	> 100.00	0.0033 u (ppm)	5.3895
6/12/2024 20:35:59	Continuing Calibration Blank	B (249.772 nm)	> 100.00	0.0001 u (ppm)	87.1360
6/12/2024 20:35:59	Continuing Calibration Blank	Ba (230.424 nm)	> 100.00	0.0000 u (ppm)	5.2985
6/12/2024 20:35:59	Continuing Calibration Blank	Be (313.107 nm)	> 100.00	0.0000 u (ppm)	-361.5931
6/12/2024 20:35:59	Continuing Calibration Blank	Ca (317.933 nm)	0.81	-0.0055 u (ppm)	1979.5508
6/12/2024 20:35:59	Continuing Calibration Blank	Cd (214.439 nm)	> 100.00	0.0001 u (ppm)	8.3702
6/12/2024 20:35:59	Continuing Calibration Blank	Co (230.786 nm)	68.84	-0.0007 u (ppm)	-20.9815
6/12/2024 20:35:59	Continuing Calibration Blank	Cr (267.716 nm)	> 100.00	-0.0005 u (ppm)	53.3154
6/12/2024 20:35:59	Continuing Calibration Blank	Cu (327.395 nm)	68.42	-0.0004 u (ppm)	-12.6144
6/12/2024 20:35:59	Continuing Calibration Blank	Fe (234.350 nm)	31.50	0.0052 (ppm)	80.6563
6/12/2024 20:35:59	Continuing Calibration Blank	K (766.491 nm)	> 100.00	0.0042 u (ppm)	-23.0691
6/12/2024 20:35:59	Continuing Calibration Blank	Mg (279.078 nm)	> 100.00	-0.0016 u (ppm)	6.2424
6/12/2024 20:35:59	Continuing Calibration Blank	Mn (257.610 nm)	30.81	0.0001 (ppm)	19.8512
6/12/2024 20:35:59	Continuing Calibration Blank	Mo (202.032 nm)	22.01	0.0136 (ppm)	59.9898
6/12/2024 20:35:59	Continuing Calibration Blank	Na (588.995 nm)	5.62	-0.0490 u (ppm)	-25546.2084
6/12/2024 20:35:59	Continuing Calibration Blank	Ni (230.299 nm)	> 100.00	-0.0006 u (ppm)	17.3151
6/12/2024 20:35:59	Continuing Calibration Blank	Pb (220.353 nm)	> 100.00	-0.0008 u (ppm)	0.5006
6/12/2024 20:35:59	Continuing Calibration Blank	Sb (217.582 nm)	10.99	0.0406 (ppm)	31.5301
6/12/2024 20:35:59	Continuing Calibration Blank	Se (196.026 nm)	> 100.00	0.0003 u (ppm)	1.9579
6/12/2024 20:35:59	Continuing Calibration Blank	Sn (189.925 nm)	> 100.00	-0.0007 u (ppm)	1.8037
6/12/2024 20:35:59	Continuing Calibration Blank	Sr (216.596 nm)	68.61	-0.0005 u (ppm)	12.4797
6/12/2024 20:35:59	Continuing Calibration Blank	Ti (336.122 nm)	23.31	0.0043 (ppm)	431.3228
6/12/2024 20:35:59	Continuing Calibration Blank	Tl (190.794 nm)	> 100.00	-0.0016 u (ppm)	-1.0192
6/12/2024 20:35:59	Continuing Calibration Blank	V (292.401 nm)	56.72	0.0007 (ppm)	48.9124
6/12/2024 20:35:59	Continuing Calibration Blank	Y (360.074 nm)	0.25	1.01 (Ratio)	467378.22
6/12/2024 20:35:59	Continuing Calibration Blank	Y_R (360.074 nm)	0.25	1.00 (Ratio)	465347.47
6/12/2024 20:35:59	Continuing Calibration Blank	Zn (213.857 nm)	45.70	0.0001 (ppm)	5.8560
6/12/2024 20:39:13	Contract Required Detection Limit	Ag (328.068 nm)	1.38	0.0093 (ppm)	375.8395
6/12/2024 20:39:13	Contract Required Detection Limit	Al (237.312 nm)	1.89	0.2010 (ppm)	328.2813
6/12/2024 20:39:13	Contract Required Detection Limit	As (188.980 nm)	17.55	0.0200 (ppm)	21.4573
6/12/2024 20:39:13	Contract Required Detection Limit	B (249.772 nm)	0.13	0.2097 (ppm)	7112.8247
6/12/2024 20:39:13	Contract Required Detection Limit	Ba (230.424 nm)	0.24	0.2046 (ppm)	5483.0323
6/12/2024 20:39:13	Contract Required Detection Limit	Be (313.107 nm)	0.33	0.0053 (ppm)	6881.7065
6/12/2024 20:39:13	Contract Required Detection Limit	Ca (317.933 nm)	0.28	1.0688 (ppm)	41921.2042
6/12/2024 20:39:13	Contract Required Detection Limit	Cd (214.439 nm)	2.65	0.0101 (ppm)	263.8776
6/12/2024 20:39:13	Contract Required Detection Limit	Co (230.786 nm)	2.20	0.0498 (ppm)	476.0468
6/12/2024 20:39:13	Contract Required Detection Limit	Cr (267.716 nm)	4.18	0.0088 (ppm)	318.7184
6/12/2024 20:39:13	Contract Required Detection Limit	Cu (327.395 nm)	1.19	0.0255 (ppm)	898.3158
6/12/2024 20:39:13	Contract Required Detection Limit	Fe (234.350 nm)	1.13	0.1109 (ppm)	812.0312
6/12/2024 20:39:13	Contract Required Detection Limit	K (766.491 nm)	0.89	1.0528 (ppm)	2351.0384
6/12/2024 20:39:13	Contract Required Detection Limit	Mg (279.078 nm)	0.29	1.0361 (ppm)	2559.7440
6/12/2024 20:39:13	Contract Required Detection Limit	Mn (257.610 nm)	0.50	0.0142 (ppm)	3032.2677
6/12/2024 20:39:13	Contract Required Detection Limit	Mo (202.032 nm)	2.72	0.0284 (ppm)	124.1815
6/12/2024 20:39:13	Contract Required Detection Limit	Na (588.995 nm)	0.27	1.0222 (ppm)	6094.8210
6/12/2024 20:39:13	Contract Required Detection Limit	Ni (230.299 nm)	2.05	0.0375 (ppm)	348.7770

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 20:39:13	Contract Required Detection Limit	Pb (220.353 nm)	41.98	0.0114 (ppm)	28.8225
6/12/2024 20:39:13	Contract Required Detection Limit	Sb (217.582 nm)	2.69	0.0769 R (ppm)	61.8622 R
6/12/2024 20:39:13	Contract Required Detection Limit	Se (196.026 nm)	56.51	0.0103 (ppm)	8.8065
6/12/2024 20:39:13	Contract Required Detection Limit	Sn (189.925 nm)	0.28	0.4988 (ppm)	463.6774
6/12/2024 20:39:13	Contract Required Detection Limit	Sr (216.596 nm)	0.77	0.0977 (ppm)	903.9867
6/12/2024 20:39:13	Contract Required Detection Limit	Ti (336.122 nm)	0.56	0.0507 (ppm)	6969.7198
6/12/2024 20:39:13	Contract Required Detection Limit	Tl (190.794 nm)	17.62	0.0187 (ppm)	9.0552
6/12/2024 20:39:13	Contract Required Detection Limit	V (292.401 nm)	0.68	0.0531 (ppm)	1294.8314
6/12/2024 20:39:13	Contract Required Detection Limit	Y (360.074 nm)	0.23	0.99 (Ratio)	459266.94
6/12/2024 20:39:13	Contract Required Detection Limit	Y_R (360.074 nm)	0.24	0.99 (Ratio)	457223.42
6/12/2024 20:39:13	Contract Required Detection Limit	Zn (213.857 nm)	0.41	0.0173 (ppm)	526.7416
6/12/2024 20:42:27	Interference Check Solution A	Ag (328.068 nm)	10.51	0.0009 (ppm)	-42.7515
6/12/2024 20:42:27	Interference Check Solution A	Al (237.312 nm)	0.24	271.1413 o (ppm)	343327.0973
6/12/2024 20:42:27	Interference Check Solution A	As (188.980 nm)	34.80	-0.0052 u (ppm)	-2.8673
6/12/2024 20:42:27	Interference Check Solution A	B (249.772 nm)	0.26	0.0769 (ppm)	2661.6859
6/12/2024 20:42:27	Interference Check Solution A	Ba (230.424 nm)	25.36	0.0010 (ppm)	31.2111
6/12/2024 20:42:27	Interference Check Solution A	Be (313.107 nm)	4.02	0.0001 (ppm)	-152.9495
6/12/2024 20:42:27	Interference Check Solution A	Ca (317.933 nm)	0.37	247.9204 o (ppm)	9220000.5799
6/12/2024 20:42:27	Interference Check Solution A	Cd (214.439 nm)	24.06	-0.0009 u (ppm)	-17.3653
6/12/2024 20:42:27	Interference Check Solution A	Co (230.786 nm)	> 100.00	-0.0023 u (ppm)	-35.9956
6/12/2024 20:42:27	Interference Check Solution A	Cr (267.716 nm)	8.59	0.0043 (ppm)	190.3225
6/12/2024 20:42:27	Interference Check Solution A	Cu (327.395 nm)	2.46	0.0075 (ppm)	264.5990
6/12/2024 20:42:27	Interference Check Solution A	Fe (234.350 nm)	0.30	96.4065 o (ppm)	666534.9001
6/12/2024 20:42:27	Interference Check Solution A	K (766.491 nm)	6.67	0.0713 (ppm)	128.7824
6/12/2024 20:42:27	Interference Check Solution A	Mg (279.078 nm)	0.23	258.7784 o (ppm)	636804.5408
6/12/2024 20:42:27	Interference Check Solution A	Mn (257.610 nm)	2.85	0.0011 (ppm)	239.1779
6/12/2024 20:42:27	Interference Check Solution A	Mo (202.032 nm)	> 100.00	-0.0006 u (ppm)	-1.5444
6/12/2024 20:42:27	Interference Check Solution A	Na (588.995 nm)	1.82	-0.1163 u (ppm)	-27533.9086
6/12/2024 20:42:27	Interference Check Solution A	Ni (230.299 nm)	76.56	0.0017 (ppm)	36.5030
6/12/2024 20:42:27	Interference Check Solution A	Pb (220.353 nm)	49.39	-0.0037 u (ppm)	-6.2328
6/12/2024 20:42:27	Interference Check Solution A	Sb (217.582 nm)	> 100.00	0.0003 u (ppm)	-2.0111
6/12/2024 20:42:27	Interference Check Solution A	Se (196.026 nm)	57.81	-0.0056 u (ppm)	-2.0821
6/12/2024 20:42:27	Interference Check Solution A	Sn (189.925 nm)	40.61	-0.0061 u (ppm)	-3.1433
6/12/2024 20:42:27	Interference Check Solution A	Sr (216.596 nm)	10.08	0.0130 (ppm)	135.1375
6/12/2024 20:42:27	Interference Check Solution A	Ti (336.122 nm)	15.89	0.0011 (ppm)	-23.9878
6/12/2024 20:42:27	Interference Check Solution A	Tl (190.794 nm)	> 100.00	0.0048 u (ppm)	2.1441
6/12/2024 20:42:27	Interference Check Solution A	V (292.401 nm)	10.45	0.0052 (ppm)	155.6072
6/12/2024 20:42:27	Interference Check Solution A	Y (360.074 nm)	0.28	0.91 (Ratio)	421354.82
6/12/2024 20:42:27	Interference Check Solution A	Y_R (360.074 nm)	0.27	0.90 (Ratio)	419674.01
6/12/2024 20:42:27	Interference Check Solution A	Zn (213.857 nm)	2.05	0.0098 (ppm)	297.7438
6/12/2024 20:45:40	Interference Check Solution AB	Ag (328.068 nm)	0.37	0.2064 (ppm)	10111.0125
6/12/2024 20:45:40	Interference Check Solution AB	Al (237.312 nm)	0.12	271.4443 o (ppm)	343710.7201
6/12/2024 20:45:40	Interference Check Solution AB	As (188.980 nm)	3.23	0.1017 (ppm)	100.3693
6/12/2024 20:45:40	Interference Check Solution AB	B (249.772 nm)	0.02	0.0737 (ppm)	2553.5173
6/12/2024 20:45:40	Interference Check Solution AB	Ba (230.424 nm)	0.85	0.5328 (ppm)	14271.2601
6/12/2024 20:45:40	Interference Check Solution AB	Be (313.107 nm)	0.13	0.5356 (ppm)	730361.1242
6/12/2024 20:45:40	Interference Check Solution AB	Ca (317.933 nm)	0.26	248.3774 o (ppm)	9236991.0527
6/12/2024 20:45:40	Interference Check Solution AB	Cd (214.439 nm)	0.15	0.9933 (ppm)	25223.6785
6/12/2024 20:45:40	Interference Check Solution AB	Co (230.786 nm)	0.11	0.4897 (ppm)	4799.8429
6/12/2024 20:45:40	Interference Check Solution AB	Cr (267.716 nm)	0.19	0.5123 (ppm)	14753.9667
6/12/2024 20:45:40	Interference Check Solution AB	Cu (327.395 nm)	0.26	0.5941 (ppm)	20861.0143

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 20:45:40	Interference Check Solution AB	Fe (234.350 nm)	0.12	96.5408 o (ppm)	667463.3049
6/12/2024 20:45:40	Interference Check Solution AB	K (766.491 nm)	19.31	0.0577 (ppm)	98.0423
6/12/2024 20:45:40	Interference Check Solution AB	Mg (279.078 nm)	0.23	259.0964 o (ppm)	637587.1413
6/12/2024 20:45:40	Interference Check Solution AB	Mn (257.610 nm)	0.08	0.5020 (ppm)	107235.4766
6/12/2024 20:45:40	Interference Check Solution AB	Mo (202.032 nm)	17.09	-0.0011 u (ppm)	-3.8090
6/12/2024 20:45:40	Interference Check Solution AB	Na (588.995 nm)	4.32	-0.1217 u (ppm)	-27694.4861
6/12/2024 20:45:40	Interference Check Solution AB	Ni (230.299 nm)	0.67	1.0182 (ppm)	8882.4906
6/12/2024 20:45:40	Interference Check Solution AB	Pb (220.353 nm)	4.87	0.0503 (ppm)	119.1305
6/12/2024 20:45:40	Interference Check Solution AB	Sb (217.582 nm)	0.52	0.6091 (ppm)	505.7054
6/12/2024 20:45:40	Interference Check Solution AB	Se (196.026 nm)	3.07	0.0438 (ppm)	31.7412
6/12/2024 20:45:40	Interference Check Solution AB	Sn (189.925 nm)	60.64	-0.0024 u (ppm)	0.2897
6/12/2024 20:45:40	Interference Check Solution AB	Sr (216.596 nm)	8.86	0.0147 (ppm)	150.0540
6/12/2024 20:45:40	Interference Check Solution AB	Ti (336.122 nm)	16.47	0.0007 (ppm)	-75.7760
6/12/2024 20:45:40	Interference Check Solution AB	Tl (190.794 nm)	4.65	0.1119 (ppm)	55.3269
6/12/2024 20:45:40	Interference Check Solution AB	V (292.401 nm)	0.12	0.5567 (ppm)	13288.6668
6/12/2024 20:45:40	Interference Check Solution AB	Y (360.074 nm)	0.34	0.91 (Ratio)	422514.27
6/12/2024 20:45:40	Interference Check Solution AB	Y_R (360.074 nm)	0.35	0.91 (Ratio)	420809.00
6/12/2024 20:45:40	Interference Check Solution AB	Zn (213.857 nm)	0.24	1.0103 (ppm)	30665.5969
6/12/2024 20:48:55	HLCCV2	Ag (328.068 nm)	0.39	2.2015 Qo (ppm)	108672.7055 Q
6/12/2024 20:48:55	HLCCV2	Al (237.312 nm)	0.46	540.4626 o (ppm)	684276.3001
6/12/2024 20:48:55	HLCCV2	As (188.980 nm)	0.63	3.9897 o (ppm)	3855.3560
6/12/2024 20:48:55	HLCCV2	B (249.772 nm)	0.51	11.1306 o (ppm)	373214.7134
6/12/2024 20:48:55	HLCCV2	Ba (230.424 nm)	0.50	39.7778 o (ppm)	1065206.1899
6/12/2024 20:48:55	HLCCV2	Be (313.107 nm)	0.40	1.0693 o (ppm)	1458430.5435
6/12/2024 20:48:55	HLCCV2	Ca (317.933 nm)	0.49	240.8821 o (ppm)	8958313.5055
6/12/2024 20:48:55	HLCCV2	Cd (214.439 nm)	0.23	1.9116 o (ppm)	48534.6619
6/12/2024 20:48:55	HLCCV2	Co (230.786 nm)	0.29	9.4382 o (ppm)	92756.7717
6/12/2024 20:48:55	HLCCV2	Cr (267.716 nm)	0.59	9.7584 o (ppm)	279857.1477
6/12/2024 20:48:55	HLCCV2	Cu (327.395 nm)	0.41	5.9719 Qo (ppm)	209660.1546 Q
6/12/2024 20:48:55	HLCCV2	Fe (234.350 nm)	0.43	48.2547 o (ppm)	333645.4224
6/12/2024 20:48:55	HLCCV2	K (766.491 nm)	0.35	175.3193 Qo (ppm)	396924.4563 Q
6/12/2024 20:48:55	HLCCV2	Mg (279.078 nm)	0.65	505.6588 o (ppm)	1244320.7311
6/12/2024 20:48:55	HLCCV2	Mn (257.610 nm)	0.45	9.6519 o (ppm)	2061647.7033
6/12/2024 20:48:55	HLCCV2	Mo (202.032 nm)	0.93	10.3320 o (ppm)	44841.3825
6/12/2024 20:48:55	HLCCV2	Na (588.995 nm)	0.50	201.6722 o (ppm)	5932835.2919
6/12/2024 20:48:55	HLCCV2	Ni (230.299 nm)	0.50	7.7619 o (ppm)	67565.2082
6/12/2024 20:48:55	HLCCV2	Pb (220.353 nm)	0.40	9.9839 o (ppm)	23181.0579
6/12/2024 20:48:55	HLCCV2	Sb (217.582 nm)	17.69	0.0306 (ppm)	23.2386
6/12/2024 20:48:55	HLCCV2	Se (196.026 nm)	0.62	2.0057 o (ppm)	1374.1346
6/12/2024 20:48:55	HLCCV2	Sn (189.925 nm)	30.28	-0.0104 u (ppm)	-7.1668
6/12/2024 20:48:55	HLCCV2	Sr (216.596 nm)	1.50	9.4852 o (ppm)	86135.6279
6/12/2024 20:48:55	HLCCV2	Ti (336.122 nm)	0.40	10.5431 o (ppm)	1485337.8585
6/12/2024 20:48:55	HLCCV2	Tl (190.794 nm)	0.64	4.1670 o (ppm)	2069.4441
6/12/2024 20:48:55	HLCCV2	V (292.401 nm)	0.78	10.5880 o (ppm)	252162.3681
6/12/2024 20:48:55	HLCCV2	Y (360.074 nm)	0.14	0.89 (Ratio)	412947.15
6/12/2024 20:48:55	HLCCV2	Y_R (360.074 nm)	0.15	0.89 (Ratio)	411325.88
6/12/2024 20:48:55	HLCCV2	Zn (213.857 nm)	0.45	3.9508 o (ppm)	119915.8853
6/12/2024 20:52:09	HLCCV3	Ag (328.068 nm)	18.16	0.0009 (ppm)	-40.5164
6/12/2024 20:52:09	HLCCV3	Al (237.312 nm)	> 100.00	-0.0012 u (ppm)	72.3735
6/12/2024 20:52:09	HLCCV3	As (188.980 nm)	47.41	0.0144 (ppm)	16.0626
6/12/2024 20:52:09	HLCCV3	B (249.772 nm)	2.58	0.0342 (ppm)	1229.5528

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 20:52:09	HLCCV3	Ba (230.424 nm)	14.24	0.0009 (ppm)	27.2666
6/12/2024 20:52:09	HLCCV3	Be (313.107 nm)	22.23	0.0000 (ppm)	-298.1625
6/12/2024 20:52:09	HLCCV3	Ca (317.933 nm)	0.59	189.9371 o (ppm)	7064146.8434
6/12/2024 20:52:09	HLCCV3	Cd (214.439 nm)	92.90	-0.0001 u (ppm)	3.6623
6/12/2024 20:52:09	HLCCV3	Co (230.786 nm)	96.33	-0.0009 u (ppm)	-22.9181
6/12/2024 20:52:09	HLCCV3	Cr (267.716 nm)	21.16	0.0010 (ppm)	93.7386
6/12/2024 20:52:09	HLCCV3	Cu (327.395 nm)	0.72	4.4685 Qo (ppm)	156881.2893 Q
6/12/2024 20:52:09	HLCCV3	Fe (234.350 nm)	0.46	37.7515 o (ppm)	261033.6727
6/12/2024 20:52:09	HLCCV3	K (766.491 nm)	0.53	111.4445 Qo (ppm)	252299.4158 Q
6/12/2024 20:52:09	HLCCV3	Mg (279.078 nm)	0.44	390.7603 o (ppm)	961581.8794
6/12/2024 20:52:09	HLCCV3	Mn (257.610 nm)	0.65	0.0112 (ppm)	2406.3042
6/12/2024 20:52:09	HLCCV3	Mo (202.032 nm)	20.21	0.0387 (ppm)	169.0199
6/12/2024 20:52:09	HLCCV3	Na (588.995 nm)	0.28	148.4405 o (ppm)	4360492.2153
6/12/2024 20:52:09	HLCCV3	Ni (230.299 nm)	2.57	-0.0192 u (ppm)	-145.3316
6/12/2024 20:52:09	HLCCV3	Pb (220.353 nm)	88.25	-0.0027 u (ppm)	-4.0384
6/12/2024 20:52:09	HLCCV3	Sb (217.582 nm)	> 100.00	-0.0019 u (ppm)	-3.8579
6/12/2024 20:52:09	HLCCV3	Se (196.026 nm)	> 100.00	0.0010 u (ppm)	2.4427
6/12/2024 20:52:09	HLCCV3	Sn (189.925 nm)	54.22	-0.0039 u (ppm)	-1.1094
6/12/2024 20:52:09	HLCCV3	Sr (216.596 nm)	11.71	0.0089 (ppm)	97.3719
6/12/2024 20:52:09	HLCCV3	Ti (336.122 nm)	13.33	0.0222 (ppm)	2943.8686
6/12/2024 20:52:09	HLCCV3	Tl (190.794 nm)	0.28	3.0013 o (ppm)	1490.4665
6/12/2024 20:52:09	HLCCV3	V (292.401 nm)	23.14	0.0022 (ppm)	83.3912
6/12/2024 20:52:09	HLCCV3	Y (360.074 nm)	0.17	0.93 (Ratio)	432307.12
6/12/2024 20:52:09	HLCCV3	Y_R (360.074 nm)	0.18	0.93 (Ratio)	430538.00
6/12/2024 20:52:09	HLCCV3	Zn (213.857 nm)	1.44	0.0053 (ppm)	163.3822
6/12/2024 20:55:23	HLCCV1	Ag (328.068 nm)	0.23	1.0201 (ppm)	50310.2504
6/12/2024 20:55:23	HLCCV1	Al (237.312 nm)	0.40	21.1932 (ppm)	26903.5806
6/12/2024 20:55:23	HLCCV1	As (188.980 nm)	0.41	1.9770 (ppm)	1911.5137
6/12/2024 20:55:23	HLCCV1	B (249.772 nm)	0.28	10.5738 (ppm)	354548.8412
6/12/2024 20:55:23	HLCCV1	Ba (230.424 nm)	0.68	20.0900 (ppm)	537990.3693
6/12/2024 20:55:23	HLCCV1	Be (313.107 nm)	0.47	0.5267 (ppm)	718160.6116
6/12/2024 20:55:23	HLCCV1	Ca (317.933 nm)	0.04	50.5854 (ppm)	1882975.3231
6/12/2024 20:55:23	HLCCV1	Cd (214.439 nm)	0.46	0.9862 (ppm)	25042.7927
6/12/2024 20:55:23	HLCCV1	Co (230.786 nm)	0.20	4.8149 (ppm)	47312.9902
6/12/2024 20:55:23	HLCCV1	Cr (267.716 nm)	0.36	0.9681 (ppm)	27824.3066
6/12/2024 20:55:23	HLCCV1	Cu (327.395 nm)	0.56	2.7120 (ppm)	95214.9500
6/12/2024 20:55:23	HLCCV1	Fe (234.350 nm)	0.32	9.9217 (ppm)	68636.7389
6/12/2024 20:55:23	HLCCV1	K (766.491 nm)	0.20	54.7035 (ppm)	123826.8292
6/12/2024 20:55:23	HLCCV1	Mg (279.078 nm)	0.25	49.8617 (ppm)	122708.4721
6/12/2024 20:55:23	HLCCV1	Mn (257.610 nm)	0.30	1.4804 (ppm)	316221.6741
6/12/2024 20:55:23	HLCCV1	Mo (202.032 nm)	0.51	5.1563 (ppm)	22379.2735
6/12/2024 20:55:23	HLCCV1	Na (588.995 nm)	0.38	51.6250 (ppm)	1500784.9272
6/12/2024 20:55:23	HLCCV1	Ni (230.299 nm)	0.24	4.0078 (ppm)	34897.1516
6/12/2024 20:55:23	HLCCV1	Pb (220.353 nm)	0.30	0.9939 (ppm)	2309.8720
6/12/2024 20:55:23	HLCCV1	Sb (217.582 nm)	0.26	9.6425 (ppm)	8040.2534
6/12/2024 20:55:23	HLCCV1	Se (196.026 nm)	1.21	0.9867 (ppm)	676.9238
6/12/2024 20:55:23	HLCCV1	Sn (189.925 nm)	0.35	9.8370 (ppm)	9097.2620
6/12/2024 20:55:23	HLCCV1	Sr (216.596 nm)	0.36	4.7969 (ppm)	43569.1201
6/12/2024 20:55:23	HLCCV1	Ti (336.122 nm)	0.61	5.1068 (ppm)	719376.0049
6/12/2024 20:55:23	HLCCV1	Tl (190.794 nm)	0.50	2.0736 (ppm)	1029.7018
6/12/2024 20:55:23	HLCCV1	V (292.401 nm)	0.23	5.2205 (ppm)	124345.7257

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 20:55:23	HLCCV1	Y (360.074 nm)	0.29	0.96 (Ratio)	444189.58
6/12/2024 20:55:23	HLCCV1	Y_R (360.074 nm)	0.29	0.95 (Ratio)	442209.18
6/12/2024 20:55:23	HLCCV1	Zn (213.857 nm)	0.12	1.9448 (ppm)	59029.3460
6/12/2024 20:58:37	Continuing Calibration Verification	Ag (328.068 nm)	0.34	0.5129 (ppm)	25255.9323
6/12/2024 20:58:37	Continuing Calibration Verification	Al (237.312 nm)	0.19	10.6589 (ppm)	13567.5058
6/12/2024 20:58:37	Continuing Calibration Verification	As (188.980 nm)	1.15	0.9771 (ppm)	945.8116
6/12/2024 20:58:37	Continuing Calibration Verification	B (249.772 nm)	0.24	2.6619 (ppm)	89316.8169
6/12/2024 20:58:37	Continuing Calibration Verification	Ba (230.424 nm)	0.14	10.2184 (ppm)	273640.1201
6/12/2024 20:58:37	Continuing Calibration Verification	Be (313.107 nm)	0.33	0.2611 (ppm)	355831.3697
6/12/2024 20:58:37	Continuing Calibration Verification	Ca (317.933 nm)	0.63	26.2073 (ppm)	976583.6190
6/12/2024 20:58:37	Continuing Calibration Verification	Cd (214.439 nm)	0.18	0.4960 (ppm)	12599.5061
6/12/2024 20:58:37	Continuing Calibration Verification	Co (230.786 nm)	0.23	2.4652 (ppm)	24217.2247
6/12/2024 20:58:37	Continuing Calibration Verification	Cr (267.716 nm)	0.22	0.5016 (ppm)	14447.6617
6/12/2024 20:58:37	Continuing Calibration Verification	Cu (327.395 nm)	0.20	1.3324 (ppm)	46779.1086
6/12/2024 20:58:37	Continuing Calibration Verification	Fe (234.350 nm)	0.14	5.0588 (ppm)	35018.3651
6/12/2024 20:58:37	Continuing Calibration Verification	K (766.491 nm)	0.49	26.6136 (ppm)	60225.8554
6/12/2024 20:58:37	Continuing Calibration Verification	Mg (279.078 nm)	0.20	25.5938 (ppm)	62990.6063
6/12/2024 20:58:37	Continuing Calibration Verification	Mn (257.610 nm)	0.21	0.7425 (ppm)	158603.5004
6/12/2024 20:58:37	Continuing Calibration Verification	Mo (202.032 nm)	0.62	2.6443 (ppm)	11477.0198
6/12/2024 20:58:37	Continuing Calibration Verification	Na (588.995 nm)	0.14	26.4003 (ppm)	755707.1820
6/12/2024 20:58:37	Continuing Calibration Verification	Ni (230.299 nm)	0.27	2.0952 (ppm)	18254.1930
6/12/2024 20:58:37	Continuing Calibration Verification	Pb (220.353 nm)	0.50	0.5066 (ppm)	1178.5712
6/12/2024 20:58:37	Continuing Calibration Verification	Sb (217.582 nm)	0.42	4.7158 (ppm)	3931.0107
6/12/2024 20:58:37	Continuing Calibration Verification	Se (196.026 nm)	1.92	0.4888 (ppm)	336.1947
6/12/2024 20:58:37	Continuing Calibration Verification	Sn (189.925 nm)	0.26	5.0465 (ppm)	4668.2288
6/12/2024 20:58:37	Continuing Calibration Verification	Sr (216.596 nm)	0.48	2.4282 (ppm)	22063.4759
6/12/2024 20:58:37	Continuing Calibration Verification	Ti (336.122 nm)	0.44	2.6348 (ppm)	371070.6169
6/12/2024 20:58:37	Continuing Calibration Verification	Tl (190.794 nm)	0.54	1.0368 (ppm)	514.7105
6/12/2024 20:58:37	Continuing Calibration Verification	V (292.401 nm)	0.42	2.6905 (ppm)	64100.0622
6/12/2024 20:58:37	Continuing Calibration Verification	Y (360.074 nm)	0.34	0.97 (Ratio)	447041.03
6/12/2024 20:58:37	Continuing Calibration Verification	Y_R (360.074 nm)	0.36	0.96 (Ratio)	444910.70
6/12/2024 20:58:37	Continuing Calibration Verification	Zn (213.857 nm)	0.24	0.9681 (ppm)	29385.3882
6/12/2024 21:01:51	Continuing Calibration Blank	Ag (328.068 nm)	13.02	0.0006 (ppm)	-55.9805
6/12/2024 21:01:51	Continuing Calibration Blank	Al (237.312 nm)	18.05	0.0081 (ppm)	84.0890
6/12/2024 21:01:51	Continuing Calibration Blank	As (188.980 nm)	> 100.00	0.0003 u (ppm)	2.4837
6/12/2024 21:01:51	Continuing Calibration Blank	B (249.772 nm)	9.82	0.0033 (ppm)	193.9781
6/12/2024 21:01:51	Continuing Calibration Blank	Ba (230.424 nm)	31.04	0.0005 (ppm)	17.1147
6/12/2024 21:01:51	Continuing Calibration Blank	Be (313.107 nm)	93.15	0.0000 (ppm)	-330.1603
6/12/2024 21:01:51	Continuing Calibration Blank	Ca (317.933 nm)	5.57	-0.0055 u (ppm)	1977.5207
6/12/2024 21:01:51	Continuing Calibration Blank	Cd (214.439 nm)	> 100.00	0.0000 u (ppm)	7.4462
6/12/2024 21:01:51	Continuing Calibration Blank	Co (230.786 nm)	> 100.00	-0.0002 u (ppm)	-15.5743
6/12/2024 21:01:51	Continuing Calibration Blank	Cr (267.716 nm)	76.58	-0.0004 u (ppm)	55.4203
6/12/2024 21:01:51	Continuing Calibration Blank	Cu (327.395 nm)	> 100.00	0.0000 u (ppm)	1.6188
6/12/2024 21:01:51	Continuing Calibration Blank	Fe (234.350 nm)	32.65	0.0044 (ppm)	75.6718
6/12/2024 21:01:51	Continuing Calibration Blank	K (766.491 nm)	7.47	0.1107 (ppm)	218.0883
6/12/2024 21:01:51	Continuing Calibration Blank	Mg (279.078 nm)	> 100.00	0.0009 u (ppm)	12.3741
6/12/2024 21:01:51	Continuing Calibration Blank	Mn (257.610 nm)	> 100.00	0.0000 u (ppm)	10.4212
6/12/2024 21:01:51	Continuing Calibration Blank	Mo (202.032 nm)	13.98	0.0163 (ppm)	71.9579
6/12/2024 21:01:51	Continuing Calibration Blank	Na (588.995 nm)	> 100.00	0.0006 u (ppm)	-24081.7250
6/12/2024 21:01:51	Continuing Calibration Blank	Ni (230.299 nm)	> 100.00	-0.0002 u (ppm)	20.0972
6/12/2024 21:01:51	Continuing Calibration Blank	Pb (220.353 nm)	3.80	-0.0020 u (ppm)	-2.3031

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 21:01:51	Continuing Calibration Blank	Sb (217.582 nm)	18.52	0.0293 (ppm)	22.1456
6/12/2024 21:01:51	Continuing Calibration Blank	Se (196.026 nm)	> 100.00	0.0013 u (ppm)	2.6536
6/12/2024 21:01:51	Continuing Calibration Blank	Sn (189.925 nm)	> 100.00	-0.0017 u (ppm)	0.9214
6/12/2024 21:01:51	Continuing Calibration Blank	Sr (216.596 nm)	> 100.00	0.0001 u (ppm)	18.1456
6/12/2024 21:01:51	Continuing Calibration Blank	Ti (336.122 nm)	15.76	0.0068 (ppm)	782.8656
6/12/2024 21:01:51	Continuing Calibration Blank	Tl (190.794 nm)	> 100.00	0.0008 u (ppm)	0.1511
6/12/2024 21:01:51	Continuing Calibration Blank	V (292.401 nm)	91.54	0.0007 (ppm)	49.2305
6/12/2024 21:01:51	Continuing Calibration Blank	Y (360.074 nm)	0.32	1.01 (Ratio)	465418.36
6/12/2024 21:01:51	Continuing Calibration Blank	Y_R (360.074 nm)	0.33	1.00 (Ratio)	463140.19
6/12/2024 21:01:51	Continuing Calibration Blank	Zn (213.857 nm)	> 100.00	0.0001 u (ppm)	4.4081
6/12/2024 21:05:04	PBW-439823	Ag (328.068 nm)	14.99	0.0005 (ppm)	-58.3124
6/12/2024 21:05:04	PBW-439823	Al (237.312 nm)	17.07	0.0038 (ppm)	78.6174
6/12/2024 21:05:04	PBW-439823	As (188.980 nm)	> 100.00	0.0030 (ppm)	5.0875
6/12/2024 21:05:04	PBW-439823	B (249.772 nm)	6.56	0.0034 (ppm)	196.9101
6/12/2024 21:05:04	PBW-439823	Ba (230.424 nm)	> 100.00	-0.0001 u (ppm)	2.3766
6/12/2024 21:05:04	PBW-439823	Be (313.107 nm)	> 100.00	0.0000 u (ppm)	-347.2915
6/12/2024 21:05:04	PBW-439823	Ca (317.933 nm)	3.26	0.0014 (ppm)	2236.1412
6/12/2024 21:05:04	PBW-439823	Cd (214.439 nm)	> 100.00	0.0000 u (ppm)	7.8450
6/12/2024 21:05:04	PBW-439823	Co (230.786 nm)	> 100.00	-0.0003 u (ppm)	-16.7516
6/12/2024 21:05:04	PBW-439823	Cr (267.716 nm)	38.09	-0.0002 u (ppm)	60.0293
6/12/2024 21:05:04	PBW-439823	Cu (327.395 nm)	> 100.00	0.0004 u (ppm)	14.8174
6/12/2024 21:05:04	PBW-439823	Fe (234.350 nm)	11.42	0.0045 (ppm)	76.1507
6/12/2024 21:05:04	PBW-439823	K (766.491 nm)	13.09	0.0710 (ppm)	128.1457
6/12/2024 21:05:04	PBW-439823	Mg (279.078 nm)	> 100.00	0.0017 (ppm)	14.4567
6/12/2024 21:05:04	PBW-439823	Mn (257.610 nm)	52.93	0.0001 (ppm)	20.0498
6/12/2024 21:05:04	PBW-439823	Mo (202.032 nm)	17.87	0.0047 (ppm)	21.3388
6/12/2024 21:05:04	PBW-439823	Na (588.995 nm)	45.91	-0.0193 u (ppm)	-24668.3353
6/12/2024 21:05:04	PBW-439823	Ni (230.299 nm)	55.04	-0.0008 u (ppm)	15.0527
6/12/2024 21:05:04	PBW-439823	Pb (220.353 nm)	> 100.00	0.0006 u (ppm)	3.7860
6/12/2024 21:05:04	PBW-439823	Sb (217.582 nm)	18.55	0.0734 (ppm)	58.9546
6/12/2024 21:05:04	PBW-439823	Se (196.026 nm)	> 100.00	-0.0011 u (ppm)	0.9837
6/12/2024 21:05:04	PBW-439823	Sn (189.925 nm)	> 100.00	-0.0032 u (ppm)	-0.5191
6/12/2024 21:05:04	PBW-439823	Sr (216.596 nm)	57.16	-0.0008 u (ppm)	10.1005
6/12/2024 21:05:04	PBW-439823	Ti (336.122 nm)	15.25	0.0019 (ppm)	92.3154
6/12/2024 21:05:04	PBW-439823	Tl (190.794 nm)	> 100.00	0.0031 u (ppm)	1.2793
6/12/2024 21:05:04	PBW-439823	V (292.401 nm)	75.58	0.0007 (ppm)	47.9230
6/12/2024 21:05:04	PBW-439823	Y (360.074 nm)	0.16	1.01 (Ratio)	465769.93
6/12/2024 21:05:04	PBW-439823	Y_R (360.074 nm)	0.16	1.00 (Ratio)	463382.94
6/12/2024 21:05:04	PBW-439823	Zn (213.857 nm)	> 100.00	0.0000 u (ppm)	0.9820
6/12/2024 21:08:18	LCSW-439823	Ag (328.068 nm)	0.41	0.0496 (ppm)	2366.7632
6/12/2024 21:08:18	LCSW-439823	Al (237.312 nm)	0.46	2.0637 (ppm)	2686.4116
6/12/2024 21:08:18	LCSW-439823	As (188.980 nm)	10.95	0.0349 (ppm)	35.8531
6/12/2024 21:08:18	LCSW-439823	B (249.772 nm)	0.25	1.0345 (ppm)	34763.7346
6/12/2024 21:08:18	LCSW-439823	Ba (230.424 nm)	0.52	1.9915 (ppm)	53335.1334
6/12/2024 21:08:18	LCSW-439823	Be (313.107 nm)	0.20	0.0509 (ppm)	69059.9664
6/12/2024 21:08:18	LCSW-439823	Ca (317.933 nm)	0.40	2.0412 (ppm)	78073.8813
6/12/2024 21:08:18	LCSW-439823	Cd (214.439 nm)	0.23	0.0496 (ppm)	1265.0150
6/12/2024 21:08:18	LCSW-439823	Co (230.786 nm)	0.21	0.4795 (ppm)	4699.1255
6/12/2024 21:08:18	LCSW-439823	Cr (267.716 nm)	0.15	0.1924 (ppm)	5583.2969
6/12/2024 21:08:18	LCSW-439823	Cu (327.395 nm)	0.21	0.2601 (ppm)	9135.5010
6/12/2024 21:08:18	LCSW-439823	Fe (234.350 nm)	0.15	0.9898 (ppm)	6887.8082

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 21:08:18	LCSW-439823	K (766.491 nm)	0.19	20.2796 (ppm)	45884.3937
6/12/2024 21:08:18	LCSW-439823	Mg (279.078 nm)	0.09	1.9545 (ppm)	4819.7560
6/12/2024 21:08:18	LCSW-439823	Mn (257.610 nm)	0.19	0.4776 (ppm)	102014.1769
6/12/2024 21:08:18	LCSW-439823	Mo (202.032 nm)	1.49	0.4896 (ppm)	2125.7004
6/12/2024 21:08:18	LCSW-439823	Na (588.995 nm)	0.33	20.2651 (ppm)	574484.7696
6/12/2024 21:08:18	LCSW-439823	Ni (230.299 nm)	0.30	0.5120 (ppm)	4477.2740
6/12/2024 21:08:18	LCSW-439823	Pb (220.353 nm)	0.25	0.5028 (ppm)	1169.7007
6/12/2024 21:08:18	LCSW-439823	Sb (217.582 nm)	2.25	0.4918 (ppm)	407.9198
6/12/2024 21:08:18	LCSW-439823	Se (196.026 nm)	1.27	1.0232 (ppm)	701.8550
6/12/2024 21:08:18	LCSW-439823	Sn (189.925 nm)	0.82	4.8490 (ppm)	4485.6291
6/12/2024 21:08:18	LCSW-439823	Sr (216.596 nm)	1.05	1.8925 (ppm)	17199.5071
6/12/2024 21:08:18	LCSW-439823	Ti (336.122 nm)	0.26	0.5036 (ppm)	70781.7647
6/12/2024 21:08:18	LCSW-439823	Tl (190.794 nm)	0.16	1.9714 (ppm)	978.9433
6/12/2024 21:08:18	LCSW-439823	V (292.401 nm)	0.34	0.5105 (ppm)	12189.0078
6/12/2024 21:08:18	LCSW-439823	Y (360.074 nm)	0.33	1.00 (Ratio)	462776.90
6/12/2024 21:08:18	LCSW-439823	Y_R (360.074 nm)	0.34	0.99 (Ratio)	460427.61
6/12/2024 21:08:18	LCSW-439823	Zn (213.857 nm)	0.48	0.4761 (ppm)	14453.4941
6/12/2024 21:11:31	DLCSW-439823	Ag (328.068 nm)	0.54	0.0492 (ppm)	2347.2906
6/12/2024 21:11:31	DLCSW-439823	Al (237.312 nm)	0.10	2.0495 (ppm)	2668.4399
6/12/2024 21:11:31	DLCSW-439823	As (188.980 nm)	12.14	0.0320 (ppm)	33.0886
6/12/2024 21:11:31	DLCSW-439823	B (249.772 nm)	0.15	1.0291 (ppm)	34583.4021
6/12/2024 21:11:31	DLCSW-439823	Ba (230.424 nm)	0.36	1.9796 (ppm)	53014.9483
6/12/2024 21:11:31	DLCSW-439823	Be (313.107 nm)	0.08	0.0506 (ppm)	68742.6363
6/12/2024 21:11:31	DLCSW-439823	Ca (317.933 nm)	0.14	2.0470 (ppm)	78292.9249
6/12/2024 21:11:31	DLCSW-439823	Cd (214.439 nm)	0.62	0.0489 (ppm)	1249.2465
6/12/2024 21:11:31	DLCSW-439823	Co (230.786 nm)	0.42	0.4769 (ppm)	4673.6105
6/12/2024 21:11:31	DLCSW-439823	Cr (267.716 nm)	0.43	0.1915 (ppm)	5556.8144
6/12/2024 21:11:31	DLCSW-439823	Cu (327.395 nm)	0.20	0.2585 (ppm)	9078.4757
6/12/2024 21:11:31	DLCSW-439823	Fe (234.350 nm)	0.16	0.9841 (ppm)	6848.7605
6/12/2024 21:11:31	DLCSW-439823	K (766.491 nm)	0.16	20.1774 (ppm)	45652.9638
6/12/2024 21:11:31	DLCSW-439823	Mg (279.078 nm)	0.24	1.9441 (ppm)	4794.2189
6/12/2024 21:11:31	DLCSW-439823	Mn (257.610 nm)	0.08	0.4755 (ppm)	101579.3671
6/12/2024 21:11:31	DLCSW-439823	Mo (202.032 nm)	1.43	0.4986 (ppm)	2164.8690
6/12/2024 21:11:31	DLCSW-439823	Na (588.995 nm)	0.21	20.2420 (ppm)	573804.2767
6/12/2024 21:11:31	DLCSW-439823	Ni (230.299 nm)	0.29	0.5097 (ppm)	4457.1348
6/12/2024 21:11:31	DLCSW-439823	Pb (220.353 nm)	0.53	0.4984 (ppm)	1159.5519
6/12/2024 21:11:31	DLCSW-439823	Sb (217.582 nm)	0.49	0.4877 (ppm)	404.4608
6/12/2024 21:11:31	DLCSW-439823	Se (196.026 nm)	0.55	1.0324 (ppm)	708.1461
6/12/2024 21:11:31	DLCSW-439823	Sn (189.925 nm)	0.21	4.8626 (ppm)	4498.1979
6/12/2024 21:11:31	DLCSW-439823	Sr (216.596 nm)	0.44	1.9032 (ppm)	17296.3697
6/12/2024 21:11:31	DLCSW-439823	Ti (336.122 nm)	0.31	0.5068 (ppm)	71224.2382
6/12/2024 21:11:31	DLCSW-439823	Tl (190.794 nm)	0.45	1.9553 (ppm)	970.9248
6/12/2024 21:11:31	DLCSW-439823	V (292.401 nm)	0.13	0.5078 (ppm)	12124.6356
6/12/2024 21:11:31	DLCSW-439823	Y (360.074 nm)	0.04	1.00 (Ratio)	462822.63
6/12/2024 21:11:31	DLCSW-439823	Y_R (360.074 nm)	0.04	0.99 (Ratio)	460427.23
6/12/2024 21:11:31	DLCSW-439823	Zn (213.857 nm)	0.72	0.4732 (ppm)	14362.8772
6/12/2024 21:14:45	R2404848-001	Ag (328.068 nm)	39.35	0.0005 (ppm)	-60.4011
6/12/2024 21:14:45	R2404848-001	Al (237.312 nm)	0.82	2.0365 (ppm)	2651.9777
6/12/2024 21:14:45	R2404848-001	As (188.980 nm)	> 100.00	-0.0019 u (ppm)	0.3537
6/12/2024 21:14:45	R2404848-001	B (249.772 nm)	0.13	0.1401 (ppm)	4781.1084
6/12/2024 21:14:45	R2404848-001	Ba (230.424 nm)	0.57	0.1008 (ppm)	2702.2636

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 21:14:45	R2404848-001	Be (313.107 nm)	15.38	0.0001 (ppm)	-254.7818
6/12/2024 21:14:45	R2404848-001	Ca (317.933 nm)	0.17	111.7910 o (ppm)	4158635.3102
6/12/2024 21:14:45	R2404848-001	Cd (214.439 nm)	> 100.00	-0.0001 u (ppm)	5.2665
6/12/2024 21:14:45	R2404848-001	Co (230.786 nm)	> 100.00	0.0004 u (ppm)	-9.7414
6/12/2024 21:14:45	R2404848-001	Cr (267.716 nm)	6.21	0.0023 (ppm)	131.2299
6/12/2024 21:14:45	R2404848-001	Cu (327.395 nm)	11.14	0.0045 (ppm)	158.5982
6/12/2024 21:14:45	R2404848-001	Fe (234.350 nm)	0.17	3.0671 (ppm)	21249.1460
6/12/2024 21:14:45	R2404848-001	K (766.491 nm)	0.45	6.7701 (ppm)	15296.1291
6/12/2024 21:14:45	R2404848-001	Mg (279.078 nm)	0.20	32.1686 (ppm)	79169.7387
6/12/2024 21:14:45	R2404848-001	Mn (257.610 nm)	0.19	0.2221 (ppm)	47455.5139
6/12/2024 21:14:45	R2404848-001	Mo (202.032 nm)	18.08	0.0091 (ppm)	40.4541
6/12/2024 21:14:45	R2404848-001	Na (588.995 nm)	0.30	46.6846 (ppm)	1354858.1448
6/12/2024 21:14:45	R2404848-001	Ni (230.299 nm)	> 100.00	0.0011 (ppm)	31.7092
6/12/2024 21:14:45	R2404848-001	Pb (220.353 nm)	11.97	0.0043 (ppm)	12.4134
6/12/2024 21:14:45	R2404848-001	Sb (217.582 nm)	23.78	0.0098 (ppm)	5.8473
6/12/2024 21:14:45	R2404848-001	Se (196.026 nm)	84.71	0.0045 (ppm)	4.8453
6/12/2024 21:14:45	R2404848-001	Sn (189.925 nm)	> 100.00	-0.0008 u (ppm)	1.7285
6/12/2024 21:14:45	R2404848-001	Sr (216.596 nm)	0.72	1.4406 (ppm)	13096.3114
6/12/2024 21:14:45	R2404848-001	Ti (336.122 nm)	1.09	0.0638 (ppm)	8809.6920
6/12/2024 21:14:45	R2404848-001	Tl (190.794 nm)	> 100.00	-0.0004 u (ppm)	-0.4677
6/12/2024 21:14:45	R2404848-001	V (292.401 nm)	9.74	0.0044 (ppm)	135.6926
6/12/2024 21:14:45	R2404848-001	Y (360.074 nm)	0.22	0.99 (Ratio)	457870.00
6/12/2024 21:14:45	R2404848-001	Y_R (360.074 nm)	0.22	0.98 (Ratio)	455538.99
6/12/2024 21:14:45	R2404848-001	Zn (213.857 nm)	1.37	0.0204 (ppm)	619.4994
6/12/2024 21:17:59	R2404848-002	Ag (328.068 nm)	33.70	0.0008 (ppm)	-44.9018
6/12/2024 21:17:59	R2404848-002	Al (237.312 nm)	0.11	7.7464 (ppm)	9880.4519
6/12/2024 21:17:59	R2404848-002	As (188.980 nm)	> 100.00	0.0030 u (ppm)	5.0724
6/12/2024 21:17:59	R2404848-002	B (249.772 nm)	0.09	0.2919 (ppm)	9867.4466
6/12/2024 21:17:59	R2404848-002	Ba (230.424 nm)	1.29	0.2135 (ppm)	5720.2269
6/12/2024 21:17:59	R2404848-002	Be (313.107 nm)	4.05	0.0003 (ppm)	53.6343
6/12/2024 21:17:59	R2404848-002	Ca (317.933 nm)	0.07	150.4846 o (ppm)	5597281.4571
6/12/2024 21:17:59	R2404848-002	Cd (214.439 nm)	33.53	0.0005 (ppm)	18.2874
6/12/2024 21:17:59	R2404848-002	Co (230.786 nm)	14.07	0.0032 (ppm)	18.1721
6/12/2024 21:17:59	R2404848-002	Cr (267.716 nm)	2.02	0.0114 (ppm)	394.0361
6/12/2024 21:17:59	R2404848-002	Cu (327.395 nm)	1.18	0.0220 (ppm)	776.2779
6/12/2024 21:17:59	R2404848-002	Fe (234.350 nm)	0.10	17.3556 o (ppm)	120030.0956
6/12/2024 21:17:59	R2404848-002	K (766.491 nm)	0.27	11.6743 (ppm)	26400.2087
6/12/2024 21:17:59	R2404848-002	Mg (279.078 nm)	0.09	40.7605 (ppm)	100312.4693
6/12/2024 21:17:59	R2404848-002	Mn (257.610 nm)	0.11	1.1177 (ppm)	238753.1541
6/12/2024 21:17:59	R2404848-002	Mo (202.032 nm)	25.25	0.0037 (ppm)	17.0651
6/12/2024 21:17:59	R2404848-002	Na (588.995 nm)	0.15	62.6541 o (ppm)	1826560.3536
6/12/2024 21:17:59	R2404848-002	Ni (230.299 nm)	11.98	0.0090 (ppm)	100.3797
6/12/2024 21:17:59	R2404848-002	Pb (220.353 nm)	16.15	0.0234 (ppm)	56.6650
6/12/2024 21:17:59	R2404848-002	Sb (217.582 nm)	> 100.00	0.0030 u (ppm)	0.1634
6/12/2024 21:17:59	R2404848-002	Se (196.026 nm)	> 100.00	0.0028 u (ppm)	3.7123
6/12/2024 21:17:59	R2404848-002	Sn (189.925 nm)	> 100.00	-0.0033 u (ppm)	-0.5407
6/12/2024 21:17:59	R2404848-002	Sr (216.596 nm)	0.48	1.5234 (ppm)	13847.8998
6/12/2024 21:17:59	R2404848-002	Ti (336.122 nm)	3.94	0.1594 (ppm)	22276.2092
6/12/2024 21:17:59	R2404848-002	Tl (190.794 nm)	44.51	-0.0077 u (ppm)	-4.0489
6/12/2024 21:17:59	R2404848-002	V (292.401 nm)	3.95	0.0171 (ppm)	439.4658
6/12/2024 21:17:59	R2404848-002	Y (360.074 nm)	0.10	0.98 (Ratio)	454530.10

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 21:17:59	R2404848-002	Y_R (360.074 nm)	0.10	0.97 (Ratio)	452233.18
6/12/2024 21:17:59	R2404848-002	Zn (213.857 nm)	0.32	0.1651 (ppm)	5011.7376
6/12/2024 21:21:13	R2404848-003	Ag (328.068 nm)	41.98	0.0009 (ppm)	-38.0567
6/12/2024 21:21:13	R2404848-003	Al (237.312 nm)	0.90	0.5266 (ppm)	740.4735
6/12/2024 21:21:13	R2404848-003	As (188.980 nm)	> 100.00	-0.0007 u (ppm)	1.5008
6/12/2024 21:21:13	R2404848-003	B (249.772 nm)	0.27	0.2263 (ppm)	7670.5769
6/12/2024 21:21:13	R2404848-003	Ba (230.424 nm)	0.47	0.1138 (ppm)	3051.9187
6/12/2024 21:21:13	R2404848-003	Be (313.107 nm)	17.54	0.0000 (ppm)	-306.2962
6/12/2024 21:21:13	R2404848-003	Ca (317.933 nm)	0.26	309.1462 o (ppm) LR	11496409.0971
6/12/2024 21:21:13	R2404848-003	Cd (214.439 nm)	68.64	-0.0001 u (ppm)	4.5847
6/12/2024 21:21:13	R2404848-003	Co (230.786 nm)	73.46	-0.0008 u (ppm)	-21.7795
6/12/2024 21:21:13	R2404848-003	Cr (267.716 nm)	15.17	0.0007 (ppm)	85.4924
6/12/2024 21:21:13	R2404848-003	Cu (327.395 nm)	> 100.00	0.0001 u (ppm)	7.0757
6/12/2024 21:21:13	R2404848-003	Fe (234.350 nm)	0.27	0.8016 (ppm)	5586.8314
6/12/2024 21:21:13	R2404848-003	K (766.491 nm)	0.14	4.1584 (ppm)	9382.8126
6/12/2024 21:21:13	R2404848-003	Mg (279.078 nm)	0.25	57.1136 o (ppm)	140553.8019
6/12/2024 21:21:13	R2404848-003	Mn (257.610 nm)	0.24	0.2630 (ppm)	56176.8007
6/12/2024 21:21:13	R2404848-003	Mo (202.032 nm)	40.89	0.0014 (ppm)	7.0812
6/12/2024 21:21:13	R2404848-003	Na (588.995 nm)	0.34	46.5355 (ppm)	1350452.3616
6/12/2024 21:21:13	R2404848-003	Ni (230.299 nm)	78.69	0.0007 (ppm)	27.8832
6/12/2024 21:21:13	R2404848-003	Pb (220.353 nm)	79.92	-0.0015 u (ppm)	-1.0885
6/12/2024 21:21:13	R2404848-003	Sb (217.582 nm)	93.64	0.0021 (ppm)	-0.5430
6/12/2024 21:21:13	R2404848-003	Se (196.026 nm)	> 100.00	-0.0034 u (ppm)	-0.5686
6/12/2024 21:21:13	R2404848-003	Sn (189.925 nm)	> 100.00	-0.0045 u (ppm)	-1.6368
6/12/2024 21:21:13	R2404848-003	Sr (216.596 nm)	0.41	7.4484 o (ppm)	67643.1190
6/12/2024 21:21:13	R2404848-003	Ti (336.122 nm)	10.99	0.0168 (ppm)	2189.4319
6/12/2024 21:21:13	R2404848-003	Tl (190.794 nm)	> 100.00	0.0017 u (ppm)	0.6225
6/12/2024 21:21:13	R2404848-003	V (292.401 nm)	12.68	0.0025 (ppm)	90.2099
6/12/2024 21:21:13	R2404848-003	Y (360.074 nm)	0.03	0.99 (Ratio)	455915.41
6/12/2024 21:21:13	R2404848-003	Y_R (360.074 nm)	0.03	0.98 (Ratio)	453681.15
6/12/2024 21:21:13	R2404848-003	Zn (213.857 nm)	1.44	0.0087 (ppm)	264.3052
6/12/2024 21:24:27	R2404848-004	Ag (328.068 nm)	64.84	0.0009 (ppm)	-42.5726
6/12/2024 21:24:27	R2404848-004	Al (237.312 nm)	0.35	0.7043 (ppm)	965.5024
6/12/2024 21:24:27	R2404848-004	As (188.980 nm)	74.84	-0.0033 u (ppm)	-1.0097
6/12/2024 21:24:27	R2404848-004	B (249.772 nm)	0.38	0.1883 (ppm)	6395.8158
6/12/2024 21:24:27	R2404848-004	Ba (230.424 nm)	0.73	0.1316 (ppm)	3529.3679
6/12/2024 21:24:27	R2404848-004	Be (313.107 nm)	13.13	0.0000 (ppm)	-287.9984
6/12/2024 21:24:27	R2404848-004	Ca (317.933 nm)	0.43	256.7030 o (ppm) LR	9546539.9324
6/12/2024 21:24:27	R2404848-004	Cd (214.439 nm)	> 100.00	0.0000 u (ppm)	7.5334
6/12/2024 21:24:27	R2404848-004	Co (230.786 nm)	> 100.00	0.0002 u (ppm)	-11.3631
6/12/2024 21:24:27	R2404848-004	Cr (267.716 nm)	15.05	0.0010 (ppm)	96.1937
6/12/2024 21:24:27	R2404848-004	Cu (327.395 nm)	> 100.00	0.0002 u (ppm)	7.7970
6/12/2024 21:24:27	R2404848-004	Fe (234.350 nm)	0.44	0.6530 (ppm)	4559.7497
6/12/2024 21:24:27	R2404848-004	K (766.491 nm)	0.35	4.5240 (ppm)	10210.4785
6/12/2024 21:24:27	R2404848-004	Mg (279.078 nm)	0.41	49.4017 (ppm)	121576.5059
6/12/2024 21:24:27	R2404848-004	Mn (257.610 nm)	0.44	0.1537 (ppm)	32834.2732
6/12/2024 21:24:27	R2404848-004	Mo (202.032 nm)	36.40	0.0012 (ppm)	6.3530
6/12/2024 21:24:27	R2404848-004	Na (588.995 nm)	0.46	48.2662 (ppm)	1401573.8546
6/12/2024 21:24:27	R2404848-004	Ni (230.299 nm)	71.50	0.0014 (ppm)	33.8832
6/12/2024 21:24:27	R2404848-004	Pb (220.353 nm)	> 100.00	-0.0004 u (ppm)	1.3402
6/12/2024 21:24:27	R2404848-004	Sb (217.582 nm)	96.27	0.0047 u (ppm)	1.5968

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 21:24:27	R2404848-004	Se (196.026 nm)	> 100.00	0.0009 u (ppm)	2.3968
6/12/2024 21:24:27	R2404848-004	Sn (189.925 nm)	21.23	-0.0046 u (ppm)	-1.8085
6/12/2024 21:24:27	R2404848-004	Sr (216.596 nm)	0.71	5.7909 o (ppm)	52593.6826
6/12/2024 21:24:27	R2404848-004	Ti (336.122 nm)	1.25	0.0239 (ppm)	3194.2109
6/12/2024 21:24:27	R2404848-004	Tl (190.794 nm)	50.22	0.0043 (ppm)	1.9088
6/12/2024 21:24:27	R2404848-004	V (292.401 nm)	10.99	0.0026 (ppm)	93.6065
6/12/2024 21:24:27	R2404848-004	Y (360.074 nm)	0.20	0.99 (Ratio)	456620.84
6/12/2024 21:24:27	R2404848-004	Y_R (360.074 nm)	0.19	0.98 (Ratio)	454328.14
6/12/2024 21:24:27	R2404848-004	Zn (213.857 nm)	1.02	0.0129 (ppm)	392.1123
6/12/2024 21:27:41	R2404848-005	Ag (328.068 nm)	36.49	0.0006 (ppm)	-53.3828
6/12/2024 21:27:41	R2404848-005	Al (237.312 nm)	6.73	0.1104 (ppm)	213.5682
6/12/2024 21:27:41	R2404848-005	As (188.980 nm)	> 100.00	-0.0011 u (ppm)	1.1162
6/12/2024 21:27:41	R2404848-005	B (249.772 nm)	0.38	0.0849 (ppm)	2929.5279
6/12/2024 21:27:41	R2404848-005	Ba (230.424 nm)	1.77	0.0140 (ppm)	378.9780
6/12/2024 21:27:41	R2404848-005	Be (313.107 nm)	> 100.00	0.0000 u (ppm)	-352.4030
6/12/2024 21:27:41	R2404848-005	Ca (317.933 nm)	0.32	21.2148 (ppm)	790960.0746
6/12/2024 21:27:41	R2404848-005	Cd (214.439 nm)	> 100.00	-0.0001 u (ppm)	4.0957
6/12/2024 21:27:41	R2404848-005	Co (230.786 nm)	60.34	0.0001 (ppm)	-12.6197
6/12/2024 21:27:41	R2404848-005	Cr (267.716 nm)	> 100.00	0.0003 u (ppm)	74.7676
6/12/2024 21:27:41	R2404848-005	Cu (327.395 nm)	> 100.00	0.0001 u (ppm)	6.7045
6/12/2024 21:27:41	R2404848-005	Fe (234.350 nm)	0.48	0.1307 (ppm)	948.5721
6/12/2024 21:27:41	R2404848-005	K (766.491 nm)	0.48	1.5537 (ppm)	3485.2093
6/12/2024 21:27:41	R2404848-005	Mg (279.078 nm)	0.17	26.8674 (ppm)	66124.8140
6/12/2024 21:27:41	R2404848-005	Mn (257.610 nm)	0.37	0.0478 (ppm)	10212.1711
6/12/2024 21:27:41	R2404848-005	Mo (202.032 nm)	> 100.00	0.0006 u (ppm)	3.5437
6/12/2024 21:27:41	R2404848-005	Na (588.995 nm)	0.21	6.6538 (ppm)	172438.6625
6/12/2024 21:27:41	R2404848-005	Ni (230.299 nm)	> 100.00	0.0003 u (ppm)	24.7847
6/12/2024 21:27:41	R2404848-005	Pb (220.353 nm)	> 100.00	0.0003 u (ppm)	3.0611
6/12/2024 21:27:41	R2404848-005	Sb (217.582 nm)	> 100.00	-0.0004 u (ppm)	-2.6680
6/12/2024 21:27:41	R2404848-005	Se (196.026 nm)	> 100.00	-0.0031 u (ppm)	-0.3879
6/12/2024 21:27:41	R2404848-005	Sn (189.925 nm)	> 100.00	-0.0024 u (ppm)	0.2847
6/12/2024 21:27:41	R2404848-005	Sr (216.596 nm)	0.55	0.5837 (ppm)	5316.7307
6/12/2024 21:27:41	R2404848-005	Ti (336.122 nm)	19.07	0.0013 (ppm)	7.0749
6/12/2024 21:27:41	R2404848-005	Tl (190.794 nm)	> 100.00	0.0019 u (ppm)	0.7004
6/12/2024 21:27:41	R2404848-005	V (292.401 nm)	5.43	0.0020 (ppm)	79.7931
6/12/2024 21:27:41	R2404848-005	Y (360.074 nm)	0.17	1.01 (Ratio)	466736.81
6/12/2024 21:27:41	R2404848-005	Y_R (360.074 nm)	0.18	1.00 (Ratio)	464230.69
6/12/2024 21:27:41	R2404848-005	Zn (213.857 nm)	3.88	0.0025 (ppm)	78.0917
6/12/2024 21:30:54	R2404912-001	Ag (328.068 nm)	16.70	0.0008 (ppm)	-46.9261
6/12/2024 21:30:54	R2404912-001	Al (237.312 nm)	15.30	0.0233 (ppm)	103.3091
6/12/2024 21:30:54	R2404912-001	As (188.980 nm)	29.91	-0.0026 u (ppm)	-0.3729
6/12/2024 21:30:54	R2404912-001	B (249.772 nm)	1.13	0.0237 (ppm)	877.0827
6/12/2024 21:30:54	R2404912-001	Ba (230.424 nm)	1.20	0.0186 (ppm)	502.4644
6/12/2024 21:30:54	R2404912-001	Be (313.107 nm)	> 100.00	0.0000 u (ppm)	-354.0568
6/12/2024 21:30:54	R2404912-001	Ca (317.933 nm)	0.27	28.9212 (ppm)	1077489.7788
6/12/2024 21:30:54	R2404912-001	Cd (214.439 nm)	46.18	-0.0001 u (ppm)	5.2723
6/12/2024 21:30:54	R2404912-001	Co (230.786 nm)	23.26	0.0011 (ppm)	-2.8415
6/12/2024 21:30:54	R2404912-001	Cr (267.716 nm)	0.93	0.0273 (ppm)	848.3444
6/12/2024 21:30:54	R2404912-001	Cu (327.395 nm)	1.99	0.0153 (ppm)	538.6359
6/12/2024 21:30:54	R2404912-001	Fe (234.350 nm)	0.45	0.2875 (ppm)	2032.6523
6/12/2024 21:30:54	R2404912-001	K (766.491 nm)	4.96	3.8356 (ppm)	8651.9527

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 21:30:54	R2404912-001	Mg (279.078 nm)	0.22	7.7150 (ppm)	18995.1400
6/12/2024 21:30:54	R2404912-001	Mn (257.610 nm)	1.18	0.0026 (ppm)	567.2961
6/12/2024 21:30:54	R2404912-001	Mo (202.032 nm)	4.50	0.0328 (ppm)	143.3803
6/12/2024 21:30:54	R2404912-001	Na (588.995 nm)	0.62	616.9151 o (ppm)	18198159.5569
6/12/2024 21:30:54	R2404912-001	Ni (230.299 nm)	0.50	0.0967 (ppm)	863.5381
6/12/2024 21:30:54	R2404912-001	Pb (220.353 nm)	54.38	-0.0018 u (ppm)	-1.8509
6/12/2024 21:30:54	R2404912-001	Sb (217.582 nm)	> 100.00	0.0015 u (ppm)	-1.0647
6/12/2024 21:30:54	R2404912-001	Se (196.026 nm)	> 100.00	-0.0050 u (ppm)	-1.6674
6/12/2024 21:30:54	R2404912-001	Sn (189.925 nm)	92.43	-0.0025 u (ppm)	0.1848
6/12/2024 21:30:54	R2404912-001	Sr (216.596 nm)	0.48	0.1352 (ppm)	1244.2554
6/12/2024 21:30:54	R2404912-001	Ti (336.122 nm)	85.73	-0.0001 u (ppm)	-192.8983
6/12/2024 21:30:54	R2404912-001	Tl (190.794 nm)	62.55	0.0042 (ppm)	1.8185
6/12/2024 21:30:54	R2404912-001	V (292.401 nm)	13.78	0.0008 (ppm)	51.5929
6/12/2024 21:30:54	R2404912-001	Y (360.074 nm)	0.24	0.97 (Ratio)	449883.38
6/12/2024 21:30:54	R2404912-001	Y_R (360.074 nm)	0.24	0.97 (Ratio)	447819.73
6/12/2024 21:30:54	R2404912-001	Zn (213.857 nm)	1.54	0.0103 (ppm)	315.4431
6/12/2024 21:34:08	R2405000-001	Ag (328.068 nm)	1.40	0.0007 (ppm)	-49.4599
6/12/2024 21:34:08	R2405000-001	Al (237.312 nm)	6.05	0.0637 (ppm)	154.4725
6/12/2024 21:34:08	R2405000-001	As (188.980 nm)	> 100.00	-0.0005 u (ppm)	1.6973
6/12/2024 21:34:08	R2405000-001	B (249.772 nm)	7.71	0.0060 (ppm)	284.1449
6/12/2024 21:34:08	R2405000-001	Ba (230.424 nm)	7.71	0.0059 (ppm)	162.0983
6/12/2024 21:34:08	R2405000-001	Be (313.107 nm)	85.21	0.0000 (ppm)	-335.7489
6/12/2024 21:34:08	R2405000-001	Ca (317.933 nm)	0.28	8.1264 (ppm)	304325.4611
6/12/2024 21:34:08	R2405000-001	Cd (214.439 nm)	> 100.00	0.0000 u (ppm)	5.7246
6/12/2024 21:34:08	R2405000-001	Co (230.786 nm)	16.35	0.0003 (ppm)	-10.3382
6/12/2024 21:34:08	R2405000-001	Cr (267.716 nm)	> 100.00	0.0002 u (ppm)	72.8669
6/12/2024 21:34:08	R2405000-001	Cu (327.395 nm)	4.36	0.0039 (ppm)	138.7682
6/12/2024 21:34:08	R2405000-001	Fe (234.350 nm)	0.64	0.0771 (ppm)	578.3733
6/12/2024 21:34:08	R2405000-001	K (766.491 nm)	1.38	2.0355 (ppm)	4576.0454
6/12/2024 21:34:08	R2405000-001	Mg (279.078 nm)	0.96	0.5463 (ppm)	1354.6041
6/12/2024 21:34:08	R2405000-001	Mn (257.610 nm)	0.41	0.0135 (ppm)	2897.2457
6/12/2024 21:34:08	R2405000-001	Mo (202.032 nm)	> 100.00	0.0009 u (ppm)	4.7252
6/12/2024 21:34:08	R2405000-001	Na (588.995 nm)	0.81	4.4368 (ppm)	106953.1326
6/12/2024 21:34:08	R2405000-001	Ni (230.299 nm)	> 100.00	-0.0001 u (ppm)	21.0847
6/12/2024 21:34:08	R2405000-001	Pb (220.353 nm)	> 100.00	0.0012 u (ppm)	5.1087
6/12/2024 21:34:08	R2405000-001	Sb (217.582 nm)	40.49	0.0036 (ppm)	0.7330
6/12/2024 21:34:08	R2405000-001	Se (196.026 nm)	> 100.00	-0.0045 u (ppm)	-1.3134
6/12/2024 21:34:08	R2405000-001	Sn (189.925 nm)	> 100.00	-0.0028 u (ppm)	-0.0622
6/12/2024 21:34:08	R2405000-001	Sr (216.596 nm)	3.09	0.0181 (ppm)	181.3254
6/12/2024 21:34:08	R2405000-001	Ti (336.122 nm)	95.63	-0.0001 u (ppm)	-196.4990
6/12/2024 21:34:08	R2405000-001	Tl (190.794 nm)	75.27	-0.0028 u (ppm)	-1.6197
6/12/2024 21:34:08	R2405000-001	V (292.401 nm)	15.63	0.0015 (ppm)	67.2479
6/12/2024 21:34:08	R2405000-001	Y (360.074 nm)	0.27	1.02 (Ratio)	470097.75
6/12/2024 21:34:08	R2405000-001	Y_R (360.074 nm)	0.28	1.01 (Ratio)	467489.00
6/12/2024 21:34:08	R2405000-001	Zn (213.857 nm)	0.73	0.0123 (ppm)	376.3344
6/12/2024 21:37:22	Continuing Calibration Verification	Ag (328.068 nm)	0.64	0.5120 (ppm)	25208.7395
6/12/2024 21:37:22	Continuing Calibration Verification	Al (237.312 nm)	0.68	10.6654 (ppm)	13575.8030
6/12/2024 21:37:22	Continuing Calibration Verification	As (188.980 nm)	1.44	0.9667 (ppm)	935.7976
6/12/2024 21:37:22	Continuing Calibration Verification	B (249.772 nm)	0.75	2.6473 (ppm)	88829.5737
6/12/2024 21:37:22	Continuing Calibration Verification	Ba (230.424 nm)	0.21	10.1609 (ppm)	272101.3147
6/12/2024 21:37:22	Continuing Calibration Verification	Be (313.107 nm)	0.72	0.2589 (ppm)	352830.0486

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 21:37:22	Continuing Calibration Verification	Ca (317.933 nm)	0.79	26.2114 (ppm)	976735.4345
6/12/2024 21:37:22	Continuing Calibration Verification	Cd (214.439 nm)	0.54	0.4944 (ppm)	12557.9800
6/12/2024 21:37:22	Continuing Calibration Verification	Co (230.786 nm)	0.72	2.4591 (ppm)	24157.2070
6/12/2024 21:37:22	Continuing Calibration Verification	Cr (267.716 nm)	0.84	0.4977 (ppm)	14336.7321
6/12/2024 21:37:22	Continuing Calibration Verification	Cu (327.395 nm)	0.71	1.3295 (ppm)	46676.5578
6/12/2024 21:37:22	Continuing Calibration Verification	Fe (234.350 nm)	0.69	5.0397 (ppm)	34886.2981
6/12/2024 21:37:22	Continuing Calibration Verification	K (766.491 nm)	0.63	26.5479 (ppm)	60077.0362
6/12/2024 21:37:22	Continuing Calibration Verification	Mg (279.078 nm)	0.60	25.5180 (ppm)	62804.1670
6/12/2024 21:37:22	Continuing Calibration Verification	Mn (257.610 nm)	0.65	0.7392 (ppm)	157904.0545
6/12/2024 21:37:22	Continuing Calibration Verification	Mo (202.032 nm)	1.71	2.6211 (ppm)	11376.4158
6/12/2024 21:37:22	Continuing Calibration Verification	Na (588.995 nm)	0.93	26.1854 (ppm)	749357.4329
6/12/2024 21:37:22	Continuing Calibration Verification	Ni (230.299 nm)	0.65	2.0869 (ppm)	18181.9931
6/12/2024 21:37:22	Continuing Calibration Verification	Pb (220.353 nm)	1.11	0.5036 (ppm)	1171.5106
6/12/2024 21:37:22	Continuing Calibration Verification	Sb (217.582 nm)	0.66	4.8200 (ppm)	4017.9634
6/12/2024 21:37:22	Continuing Calibration Verification	Se (196.026 nm)	0.53	0.4781 (ppm)	328.9284
6/12/2024 21:37:22	Continuing Calibration Verification	Sn (189.925 nm)	0.38	5.0419 (ppm)	4663.9244
6/12/2024 21:37:22	Continuing Calibration Verification	Sr (216.596 nm)	1.10	2.4132 (ppm)	21927.0038
6/12/2024 21:37:22	Continuing Calibration Verification	Ti (336.122 nm)	0.86	2.6255 (ppm)	369749.8909
6/12/2024 21:37:22	Continuing Calibration Verification	Tl (190.794 nm)	0.34	1.0372 (ppm)	514.9131
6/12/2024 21:37:22	Continuing Calibration Verification	V (292.401 nm)	0.68	2.6822 (ppm)	63902.5868
6/12/2024 21:37:22	Continuing Calibration Verification	Y (360.074 nm)	0.19	0.97 (Ratio)	450469.62
6/12/2024 21:37:22	Continuing Calibration Verification	Y_R (360.074 nm)	0.19	0.97 (Ratio)	447929.85
6/12/2024 21:37:22	Continuing Calibration Verification	Zn (213.857 nm)	0.66	0.9581 (ppm)	29083.2682
6/12/2024 21:40:36	Continuing Calibration Blank	Ag (328.068 nm)	22.09	0.0006 (ppm)	-54.4034
6/12/2024 21:40:36	Continuing Calibration Blank	Al (237.312 nm)	93.06	0.0045 (ppm)	79.6128
6/12/2024 21:40:36	Continuing Calibration Blank	As (188.980 nm)	> 100.00	0.0006 u (ppm)	2.7004
6/12/2024 21:40:36	Continuing Calibration Blank	B (249.772 nm)	32.38	0.0010 (ppm)	118.1683
6/12/2024 21:40:36	Continuing Calibration Blank	Ba (230.424 nm)	> 100.00	0.0002 u (ppm)	8.5703
6/12/2024 21:40:36	Continuing Calibration Blank	Be (313.107 nm)	> 100.00	0.0000 u (ppm)	-355.8556
6/12/2024 21:40:36	Continuing Calibration Blank	Ca (317.933 nm)	3.49	-0.0068 u (ppm)	1931.1449
6/12/2024 21:40:36	Continuing Calibration Blank	Cd (214.439 nm)	> 100.00	-0.0001 u (ppm)	4.8735
6/12/2024 21:40:36	Continuing Calibration Blank	Co (230.786 nm)	> 100.00	0.0004 u (ppm)	-9.6843
6/12/2024 21:40:36	Continuing Calibration Blank	Cr (267.716 nm)	63.82	-0.0004 u (ppm)	54.3570
6/12/2024 21:40:36	Continuing Calibration Blank	Cu (327.395 nm)	> 100.00	-0.0002 u (ppm)	-3.2486
6/12/2024 21:40:36	Continuing Calibration Blank	Fe (234.350 nm)	38.50	0.0023 (ppm)	60.6827
6/12/2024 21:40:36	Continuing Calibration Blank	K (766.491 nm)	10.45	0.1167 (ppm)	231.4981
6/12/2024 21:40:36	Continuing Calibration Blank	Mg (279.078 nm)	> 100.00	-0.0005 u (ppm)	9.0208
6/12/2024 21:40:36	Continuing Calibration Blank	Mn (257.610 nm)	95.74	0.0000 (ppm)	14.3119
6/12/2024 21:40:36	Continuing Calibration Blank	Mo (202.032 nm)	13.10	0.0150 (ppm)	66.3153
6/12/2024 21:40:36	Continuing Calibration Blank	Na (588.995 nm)	7.90	0.0732 (ppm)	-21936.6540
6/12/2024 21:40:36	Continuing Calibration Blank	Ni (230.299 nm)	> 100.00	0.0004 u (ppm)	25.7826
6/12/2024 21:40:36	Continuing Calibration Blank	Pb (220.353 nm)	> 100.00	-0.0006 u (ppm)	1.0144
6/12/2024 21:40:36	Continuing Calibration Blank	Sb (217.582 nm)	31.19	0.0298 (ppm)	22.5936
6/12/2024 21:40:36	Continuing Calibration Blank	Se (196.026 nm)	> 100.00	-0.0043 u (ppm)	-1.1615
6/12/2024 21:40:36	Continuing Calibration Blank	Sn (189.925 nm)	> 100.00	-0.0007 u (ppm)	1.8280
6/12/2024 21:40:36	Continuing Calibration Blank	Sr (216.596 nm)	> 100.00	-0.0006 u (ppm)	11.3866
6/12/2024 21:40:36	Continuing Calibration Blank	Ti (336.122 nm)	22.02	0.0046 (ppm)	464.8558
6/12/2024 21:40:36	Continuing Calibration Blank	Tl (190.794 nm)	> 100.00	0.0014 (ppm)	0.4408
6/12/2024 21:40:36	Continuing Calibration Blank	V (292.401 nm)	22.57	0.0011 (ppm)	56.6504
6/12/2024 21:40:36	Continuing Calibration Blank	Y (360.074 nm)	0.40	1.02 (Ratio)	469662.03
6/12/2024 21:40:36	Continuing Calibration Blank	Y_R (360.074 nm)	0.41	1.01 (Ratio)	466977.42

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 21:40:36	Continuing Calibration Blank	Zn (213.857 nm)	8.62	0.0001 (ppm)	5.9304
6/12/2024 21:43:49	R2405005-001	Ag (328.068 nm)	78.93	0.0004 (ppm)	-63.4909
6/12/2024 21:43:49	R2405005-001	Al (237.312 nm)	0.47	3.3741 (ppm)	4345.3808
6/12/2024 21:43:49	R2405005-001	As (188.980 nm)	66.52	0.0031 (ppm)	5.1587
6/12/2024 21:43:49	R2405005-001	B (249.772 nm)	1.36	0.0470 (ppm)	1660.8389
6/12/2024 21:43:49	R2405005-001	Ba (230.424 nm)	0.77	0.0300 (ppm)	806.7686
6/12/2024 21:43:49	R2405005-001	Be (313.107 nm)	3.50	0.0001 (ppm)	-203.1003
6/12/2024 21:43:49	R2405005-001	Ca (317.933 nm)	0.27	27.6161 (ppm)	1028965.8287
6/12/2024 21:43:49	R2405005-001	Cd (214.439 nm)	> 100.00	-0.0001 u (ppm)	4.7514
6/12/2024 21:43:49	R2405005-001	Co (230.786 nm)	41.38	0.0007 (ppm)	-6.7800
6/12/2024 21:43:49	R2405005-001	Cr (267.716 nm)	17.59	0.0026 (ppm)	141.9205
6/12/2024 21:43:49	R2405005-001	Cu (327.395 nm)	10.50	0.0050 (ppm)	177.6138
6/12/2024 21:43:49	R2405005-001	Fe (234.350 nm)	0.11	2.8632 (ppm)	19839.0223
6/12/2024 21:43:49	R2405005-001	K (766.491 nm)	0.67	4.7503 (ppm)	10722.9291
6/12/2024 21:43:49	R2405005-001	Mg (279.078 nm)	0.09	7.6826 (ppm)	18915.3937
6/12/2024 21:43:49	R2405005-001	Mn (257.610 nm)	0.14	0.1611 (ppm)	34428.1097
6/12/2024 21:43:49	R2405005-001	Mo (202.032 nm)	17.41	0.0049 (ppm)	22.0774
6/12/2024 21:43:49	R2405005-001	Na (588.995 nm)	0.19	8.8089 (ppm)	236096.4046
6/12/2024 21:43:49	R2405005-001	Ni (230.299 nm)	39.77	0.0015 (ppm)	35.1098
6/12/2024 21:43:49	R2405005-001	Pb (220.353 nm)	> 100.00	0.0006 u (ppm)	3.7063
6/12/2024 21:43:49	R2405005-001	Sb (217.582 nm)	10.52	0.0331 (ppm)	25.3248
6/12/2024 21:43:49	R2405005-001	Se (196.026 nm)	> 100.00	-0.0027 u (ppm)	-0.1171
6/12/2024 21:43:49	R2405005-001	Sn (189.925 nm)	25.11	-0.0044 u (ppm)	-1.5750
6/12/2024 21:43:49	R2405005-001	Sr (216.596 nm)	1.13	0.0723 (ppm)	673.2577
6/12/2024 21:43:49	R2405005-001	Ti (336.122 nm)	1.30	0.0827 (ppm)	11472.8951
6/12/2024 21:43:49	R2405005-001	Tl (190.794 nm)	> 100.00	-0.0004 u (ppm)	-0.4402
6/12/2024 21:43:49	R2405005-001	V (292.401 nm)	2.19	0.0069 (ppm)	196.5266
6/12/2024 21:43:49	R2405005-001	Y (360.074 nm)	0.07	1.01 (Ratio)	466869.67
6/12/2024 21:43:49	R2405005-001	Y_R (360.074 nm)	0.07	1.00 (Ratio)	464139.49
6/12/2024 21:43:49	R2405005-001	Zn (213.857 nm)	1.30	0.0123 (ppm)	374.1274
6/12/2024 21:47:03	R2405027-001	Ag (328.068 nm)	22.14	0.0008 (ppm)	-44.2990
6/12/2024 21:47:03	R2405027-001	Al (237.312 nm)	13.35	0.0140 (ppm)	91.5764
6/12/2024 21:47:03	R2405027-001	As (188.980 nm)	> 100.00	0.0006 u (ppm)	2.7382
6/12/2024 21:47:03	R2405027-001	B (249.772 nm)	0.22	0.1260 (ppm)	4308.7245
6/12/2024 21:47:03	R2405027-001	Ba (230.424 nm)	2.76	0.0071 (ppm)	193.2270
6/12/2024 21:47:03	R2405027-001	Be (313.107 nm)	> 100.00	0.0000 u (ppm)	-355.2488
6/12/2024 21:47:03	R2405027-001	Ca (317.933 nm)	0.21	0.5922 (ppm)	24199.0090
6/12/2024 21:47:03	R2405027-001	Cd (214.439 nm)	29.73	0.0007 (ppm)	23.3096
6/12/2024 21:47:03	R2405027-001	Co (230.786 nm)	4.61	0.0073 (ppm)	57.7342
6/12/2024 21:47:03	R2405027-001	Cr (267.716 nm)	2.53	0.0056 (ppm)	226.6779
6/12/2024 21:47:03	R2405027-001	Cu (327.395 nm)	0.41	30.0839 o (ppm) LR	1056172.4110
6/12/2024 21:47:03	R2405027-001	Fe (234.350 nm)	0.74	0.1252 (ppm)	910.6685
6/12/2024 21:47:03	R2405027-001	K (766.491 nm)	3.86	0.4002 (ppm)	873.5023
6/12/2024 21:47:03	R2405027-001	Mg (279.078 nm)	1.05	0.1324 (ppm)	335.9797
6/12/2024 21:47:03	R2405027-001	Mn (257.610 nm)	0.18	0.2847 (ppm)	60811.7933
6/12/2024 21:47:03	R2405027-001	Mo (202.032 nm)	84.26	0.0015 (ppm)	7.3115
6/12/2024 21:47:03	R2405027-001	Na (588.995 nm)	0.28	150.7544 o (ppm)	4428841.7736
6/12/2024 21:47:03	R2405027-001	Ni (230.299 nm)	0.38	0.3102 (ppm)	2721.2093
6/12/2024 21:47:03	R2405027-001	Pb (220.353 nm)	0.88	0.1660 (ppm)	387.7059
6/12/2024 21:47:03	R2405027-001	Sb (217.582 nm)	75.39	0.0114 (ppm)	7.1856
6/12/2024 21:47:03	R2405027-001	Se (196.026 nm)	4.33	0.0557 (ppm)	39.8660

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 21:47:03	R2405027-001	Sn (189.925 nm)	56.03	-0.0048 u (ppm)	-1.9433
6/12/2024 21:47:03	R2405027-001	Sr (216.596 nm)	5.30	0.0043 (ppm)	55.9624
6/12/2024 21:47:03	R2405027-001	Ti (336.122 nm)	69.24	-0.0003 u (ppm)	-220.0006
6/12/2024 21:47:03	R2405027-001	Tl (190.794 nm)	> 100.00	-0.0039 u (ppm)	-2.1958
6/12/2024 21:47:03	R2405027-001	V (292.401 nm)	2.92	0.0010 (ppm)	55.3690
6/12/2024 21:47:03	R2405027-001	Y (360.074 nm)	0.01	1.00 (Ratio)	461515.90
6/12/2024 21:47:03	R2405027-001	Y_R (360.074 nm)	0.01	0.99 (Ratio)	458982.39
6/12/2024 21:47:03	R2405027-001	Zn (213.857 nm)	1.71	2.6128 o (ppm)	79305.1071
6/12/2024 21:50:17	R2405081-001	Ag (328.068 nm)	45.42	0.0008 (ppm)	-44.5601
6/12/2024 21:50:17	R2405081-001	Al (237.312 nm)	35.92	0.0046 (ppm)	79.6353
6/12/2024 21:50:17	R2405081-001	As (188.980 nm)	> 100.00	-0.0006 u (ppm)	1.6075
6/12/2024 21:50:17	R2405081-001	B (249.772 nm)	2.41	0.0132 (ppm)	526.5665
6/12/2024 21:50:17	R2405081-001	Ba (230.424 nm)	0.40	0.0205 (ppm)	552.8427
6/12/2024 21:50:17	R2405081-001	Be (313.107 nm)	> 100.00	0.0000 u (ppm)	-362.5165
6/12/2024 21:50:17	R2405081-001	Ca (317.933 nm)	0.43	41.0644 (ppm)	1528978.7931
6/12/2024 21:50:17	R2405081-001	Cd (214.439 nm)	> 100.00	0.0001 u (ppm)	8.5948
6/12/2024 21:50:17	R2405081-001	Co (230.786 nm)	72.73	-0.0004 u (ppm)	-17.3761
6/12/2024 21:50:17	R2405081-001	Cr (267.716 nm)	> 100.00	0.0000 u (ppm)	66.7766
6/12/2024 21:50:17	R2405081-001	Cu (327.395 nm)	> 100.00	0.0007 u (ppm)	25.6341
6/12/2024 21:50:17	R2405081-001	Fe (234.350 nm)	0.89	0.0565 (ppm)	435.4583
6/12/2024 21:50:17	R2405081-001	K (766.491 nm)	1.04	1.1297 (ppm)	2525.1558
6/12/2024 21:50:17	R2405081-001	Mg (279.078 nm)	0.21	6.1474 (ppm)	15137.4929
6/12/2024 21:50:17	R2405081-001	Mn (257.610 nm)	0.42	0.0099 (ppm)	2128.0796
6/12/2024 21:50:17	R2405081-001	Mo (202.032 nm)	> 100.00	0.0000 u (ppm)	0.9162
6/12/2024 21:50:17	R2405081-001	Na (588.995 nm)	0.22	12.0483 (ppm)	331781.4573
6/12/2024 21:50:17	R2405081-001	Ni (230.299 nm)	> 100.00	0.0002 u (ppm)	23.7718
6/12/2024 21:50:17	R2405081-001	Pb (220.353 nm)	55.36	-0.0025 u (ppm)	-3.4911
6/12/2024 21:50:17	R2405081-001	Sb (217.582 nm)	79.44	0.0045 (ppm)	1.4942
6/12/2024 21:50:17	R2405081-001	Se (196.026 nm)	76.89	-0.0052 u (ppm)	-1.7677
6/12/2024 21:50:17	R2405081-001	Sn (189.925 nm)	> 100.00	-0.0002 u (ppm)	2.3403
6/12/2024 21:50:17	R2405081-001	Sr (216.596 nm)	0.21	0.0839 (ppm)	778.4316
6/12/2024 21:50:17	R2405081-001	Ti (336.122 nm)	26.89	-0.0002 u (ppm)	-201.9094
6/12/2024 21:50:17	R2405081-001	Tl (190.794 nm)	> 100.00	0.0024 u (ppm)	0.9454
6/12/2024 21:50:17	R2405081-001	V (292.401 nm)	11.73	0.0011 (ppm)	56.5567
6/12/2024 21:50:17	R2405081-001	Y (360.074 nm)	0.21	1.01 (Ratio)	467665.59
6/12/2024 21:50:17	R2405081-001	Y_R (360.074 nm)	0.22	1.00 (Ratio)	464991.80
6/12/2024 21:50:17	R2405081-001	Zn (213.857 nm)	3.89	0.0028 (ppm)	87.7283
6/12/2024 21:53:31	R2405081-002	Ag (328.068 nm)	24.01	0.0009 (ppm)	-42.0305
6/12/2024 21:53:31	R2405081-002	Al (237.312 nm)	3.56	0.1857 (ppm)	308.9056
6/12/2024 21:53:31	R2405081-002	As (188.980 nm)	> 100.00	-0.0012 u (ppm)	0.9496
6/12/2024 21:53:31	R2405081-002	B (249.772 nm)	0.12	0.0176 (ppm)	675.1682
6/12/2024 21:53:31	R2405081-002	Ba (230.424 nm)	1.07	0.0215 (ppm)	578.5124
6/12/2024 21:53:31	R2405081-002	Be (313.107 nm)	83.13	0.0000 (ppm)	-340.9975
6/12/2024 21:53:31	R2405081-002	Ca (317.933 nm)	0.27	58.3596 o (ppm)	2172023.8596
6/12/2024 21:53:31	R2405081-002	Cd (214.439 nm)	> 100.00	0.0000 u (ppm)	6.1926
6/12/2024 21:53:31	R2405081-002	Co (230.786 nm)	> 100.00	-0.0002 u (ppm)	-15.7269
6/12/2024 21:53:31	R2405081-002	Cr (267.716 nm)	4.22	0.0004 (ppm)	76.7796
6/12/2024 21:53:31	R2405081-002	Cu (327.395 nm)	> 100.00	0.0004 u (ppm)	17.4144
6/12/2024 21:53:31	R2405081-002	Fe (234.350 nm)	0.57	0.2841 (ppm)	2009.0241
6/12/2024 21:53:31	R2405081-002	K (766.491 nm)	1.65	1.5629 (ppm)	3506.0025
6/12/2024 21:53:31	R2405081-002	Mg (279.078 nm)	0.22	7.8760 (ppm)	19391.3338

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 21:53:31	R2405081-002	Mn (257.610 nm)	0.33	0.0330 (ppm)	7050.2576
6/12/2024 21:53:31	R2405081-002	Mo (202.032 nm)	> 100.00	-0.0006 u (ppm)	-1.6465
6/12/2024 21:53:31	R2405081-002	Na (588.995 nm)	0.32	12.3370 (ppm)	340306.7711
6/12/2024 21:53:31	R2405081-002	Ni (230.299 nm)	> 100.00	-0.0006 u (ppm)	17.2934
6/12/2024 21:53:31	R2405081-002	Pb (220.353 nm)	> 100.00	-0.0014 u (ppm)	-0.8272
6/12/2024 21:53:31	R2405081-002	Sb (217.582 nm)	> 100.00	0.0025 (ppm)	-0.1745
6/12/2024 21:53:31	R2405081-002	Se (196.026 nm)	20.51	-0.0089 u (ppm)	-4.3560
6/12/2024 21:53:31	R2405081-002	Sn (189.925 nm)	74.53	-0.0032 u (ppm)	-0.4894
6/12/2024 21:53:31	R2405081-002	Sr (216.596 nm)	0.52	0.1140 (ppm)	1051.7498
6/12/2024 21:53:31	R2405081-002	Ti (336.122 nm)	14.56	0.0029 (ppm)	237.2826
6/12/2024 21:53:31	R2405081-002	Tl (190.794 nm)	> 100.00	0.0003 u (ppm)	-0.0806
6/12/2024 21:53:31	R2405081-002	V (292.401 nm)	50.61	0.0016 (ppm)	69.8396
6/12/2024 21:53:31	R2405081-002	Y (360.074 nm)	0.18	1.01 (Ratio)	465517.84
6/12/2024 21:53:31	R2405081-002	Y_R (360.074 nm)	0.18	1.00 (Ratio)	462854.12
6/12/2024 21:53:31	R2405081-002	Zn (213.857 nm)	1.47	0.0036 (ppm)	109.3069
6/12/2024 21:56:45	R2405081-003	Ag (328.068 nm)	13.94	0.0007 (ppm)	-52.5733
6/12/2024 21:56:45	R2405081-003	Al (237.312 nm)	2.54	0.1399 (ppm)	251.0106
6/12/2024 21:56:45	R2405081-003	As (188.980 nm)	> 100.00	-0.0007 u (ppm)	1.4827
6/12/2024 21:56:45	R2405081-003	B (249.772 nm)	1.16	0.0139 (ppm)	550.9914
6/12/2024 21:56:45	R2405081-003	Ba (230.424 nm)	0.40	0.0332 (ppm)	893.9675
6/12/2024 21:56:45	R2405081-003	Be (313.107 nm)	58.65	0.0000 (ppm)	-340.1706
6/12/2024 21:56:45	R2405081-003	Ca (317.933 nm)	0.36	64.3501 o (ppm)	2394754.7516
6/12/2024 21:56:45	R2405081-003	Cd (214.439 nm)	> 100.00	0.0002 u (ppm)	10.9455
6/12/2024 21:56:45	R2405081-003	Co (230.786 nm)	> 100.00	0.0001 u (ppm)	-12.3653
6/12/2024 21:56:45	R2405081-003	Cr (267.716 nm)	4.05	0.0021 (ppm)	127.7740
6/12/2024 21:56:45	R2405081-003	Cu (327.395 nm)	21.10	-0.0004 u (ppm)	-11.7110
6/12/2024 21:56:45	R2405081-003	Fe (234.350 nm)	0.30	0.1514 (ppm)	1091.9207
6/12/2024 21:56:45	R2405081-003	K (766.491 nm)	0.74	1.1896 (ppm)	2660.8883
6/12/2024 21:56:45	R2405081-003	Mg (279.078 nm)	0.09	9.1536 (ppm)	22535.0405
6/12/2024 21:56:45	R2405081-003	Mn (257.610 nm)	1.14	0.0032 (ppm)	701.0932
6/12/2024 21:56:45	R2405081-003	Mo (202.032 nm)	85.53	0.0007 (ppm)	4.1905
6/12/2024 21:56:45	R2405081-003	Na (588.995 nm)	0.21	21.9467 (ppm)	624156.5985
6/12/2024 21:56:45	R2405081-003	Ni (230.299 nm)	98.57	-0.0004 u (ppm)	18.5101
6/12/2024 21:56:45	R2405081-003	Pb (220.353 nm)	> 100.00	-0.0016 u (ppm)	-1.2925
6/12/2024 21:56:45	R2405081-003	Sb (217.582 nm)	70.32	0.0034 (ppm)	0.5634
6/12/2024 21:56:45	R2405081-003	Se (196.026 nm)	> 100.00	-0.0036 u (ppm)	-0.7085
6/12/2024 21:56:45	R2405081-003	Sn (189.925 nm)	33.53	-0.0066 u (ppm)	-3.5902
6/12/2024 21:56:45	R2405081-003	Sr (216.596 nm)	0.34	0.1103 (ppm)	1018.6953
6/12/2024 21:56:45	R2405081-003	Ti (336.122 nm)	20.15	0.0018 (ppm)	75.5620
6/12/2024 21:56:45	R2405081-003	Tl (190.794 nm)	59.17	-0.0029 u (ppm)	-1.6977
6/12/2024 21:56:45	R2405081-003	V (292.401 nm)	32.80	0.0014 (ppm)	63.9871
6/12/2024 21:56:45	R2405081-003	Y (360.074 nm)	0.40	1.00 (Ratio)	463712.53
6/12/2024 21:56:45	R2405081-003	Y_R (360.074 nm)	0.41	0.99 (Ratio)	461029.55
6/12/2024 21:56:45	R2405081-003	Zn (213.857 nm)	12.78	0.0020 (ppm)	62.7036
6/12/2024 21:59:58	R2405081-004	Ag (328.068 nm)	32.86	0.0009 (ppm)	-42.0817
6/12/2024 21:59:58	R2405081-004	Al (237.312 nm)	6.17	0.1069 (ppm)	209.1896
6/12/2024 21:59:58	R2405081-004	As (188.980 nm)	> 100.00	-0.0011 u (ppm)	1.0889
6/12/2024 21:59:58	R2405081-004	B (249.772 nm)	0.37	0.0175 (ppm)	668.9361
6/12/2024 21:59:58	R2405081-004	Ba (230.424 nm)	0.26	0.0313 (ppm)	841.6015
6/12/2024 21:59:58	R2405081-004	Be (313.107 nm)	52.08	0.0000 (ppm)	-321.3171
6/12/2024 21:59:58	R2405081-004	Ca (317.933 nm)	0.34	78.5648 o (ppm)	2923263.2245

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 21:59:58	R2405081-004	Cd (214.439 nm)	> 100.00	0.0000 u (ppm)	7.0708
6/12/2024 21:59:58	R2405081-004	Co (230.786 nm)	> 100.00	0.0001 u (ppm)	-13.1543
6/12/2024 21:59:58	R2405081-004	Cr (267.716 nm)	74.78	0.0004 (ppm)	76.8119
6/12/2024 21:59:58	R2405081-004	Cu (327.395 nm)	7.50	0.0087 (ppm)	308.7838
6/12/2024 21:59:58	R2405081-004	Fe (234.350 nm)	0.15	0.1028 (ppm)	756.0320
6/12/2024 21:59:58	R2405081-004	K (766.491 nm)	1.50	0.6005 (ppm)	1326.9324
6/12/2024 21:59:58	R2405081-004	Mg (279.078 nm)	0.15	6.3516 (ppm)	15640.1525
6/12/2024 21:59:58	R2405081-004	Mn (257.610 nm)	0.31	0.0045 (ppm)	969.6173
6/12/2024 21:59:58	R2405081-004	Mo (202.032 nm)	92.23	0.0005 (ppm)	3.0776
6/12/2024 21:59:58	R2405081-004	Na (588.995 nm)	0.29	9.5024 (ppm)	256581.2180
6/12/2024 21:59:58	R2405081-004	Ni (230.299 nm)	> 100.00	0.0001 u (ppm)	22.8133
6/12/2024 21:59:58	R2405081-004	Pb (220.353 nm)	> 100.00	0.0008 u (ppm)	4.2289
6/12/2024 21:59:58	R2405081-004	Sb (217.582 nm)	91.84	0.0020 (ppm)	-0.5902
6/12/2024 21:59:58	R2405081-004	Se (196.026 nm)	> 100.00	-0.0030 u (ppm)	-0.2874
6/12/2024 21:59:58	R2405081-004	Sn (189.925 nm)	66.63	-0.0033 u (ppm)	-0.6001
6/12/2024 21:59:58	R2405081-004	Sr (216.596 nm)	0.80	0.1045 (ppm)	966.0428
6/12/2024 21:59:58	R2405081-004	Ti (336.122 nm)	4.20	0.0015 (ppm)	30.4322
6/12/2024 21:59:58	R2405081-004	Tl (190.794 nm)	> 100.00	0.0032 u (ppm)	1.3480
6/12/2024 21:59:58	R2405081-004	V (292.401 nm)	17.82	0.0014 (ppm)	63.9853
6/12/2024 21:59:58	R2405081-004	Y (360.074 nm)	0.11	1.00 (Ratio)	464099.75
6/12/2024 21:59:58	R2405081-004	Y_R (360.074 nm)	0.11	0.99 (Ratio)	461385.23
6/12/2024 21:59:58	R2405081-004	Zn (213.857 nm)	1.83	0.0069 (ppm)	210.4254
6/12/2024 22:03:13	R2405081-004L 5X	Ag (328.068 nm)	18.20	0.0007 (ppm)	-49.8316
6/12/2024 22:03:13	R2405081-004L 5X	Al (237.312 nm)	22.73	0.0246 (ppm)	104.9492
6/12/2024 22:03:13	R2405081-004L 5X	As (188.980 nm)	> 100.00	-0.0017 u (ppm)	0.5209
6/12/2024 22:03:13	R2405081-004L 5X	B (249.772 nm)	13.03	0.0027 (ppm)	173.3498
6/12/2024 22:03:13	R2405081-004L 5X	Ba (230.424 nm)	1.85	0.0062 (ppm)	170.2365
6/12/2024 22:03:13	R2405081-004L 5X	Be (313.107 nm)	> 100.00	0.0000 u (ppm)	-357.0702
6/12/2024 22:03:13	R2405081-004L 5X	Ca (317.933 nm)	0.62	16.0935 (ppm)	600549.4817
6/12/2024 22:03:13	R2405081-004L 5X	Cd (214.439 nm)	> 100.00	-0.0001 u (ppm)	5.1308
6/12/2024 22:03:13	R2405081-004L 5X	Co (230.786 nm)	> 100.00	-0.0001 u (ppm)	-15.1028
6/12/2024 22:03:13	R2405081-004L 5X	Cr (267.716 nm)	90.02	-0.0005 u (ppm)	53.2955
6/12/2024 22:03:13	R2405081-004L 5X	Cu (327.395 nm)	13.20	0.0019 (ppm)	68.2040
6/12/2024 22:03:13	R2405081-004L 5X	Fe (234.350 nm)	3.14	0.0201 (ppm)	184.2621
6/12/2024 22:03:13	R2405081-004L 5X	K (766.491 nm)	6.10	0.1445 (ppm)	294.5190
6/12/2024 22:03:13	R2405081-004L 5X	Mg (279.078 nm)	0.24	1.3020 (ppm)	3214.0987
6/12/2024 22:03:13	R2405081-004L 5X	Mn (257.610 nm)	2.22	0.0009 (ppm)	201.4215
6/12/2024 22:03:13	R2405081-004L 5X	Mo (202.032 nm)	> 100.00	-0.0001 u (ppm)	0.4961
6/12/2024 22:03:13	R2405081-004L 5X	Na (588.995 nm)	0.35	1.9102 (ppm)	32323.9840
6/12/2024 22:03:13	R2405081-004L 5X	Ni (230.299 nm)	> 100.00	-0.0004 u (ppm)	18.8105
6/12/2024 22:03:13	R2405081-004L 5X	Pb (220.353 nm)	> 100.00	-0.0023 u (ppm)	-2.9865
6/12/2024 22:03:13	R2405081-004L 5X	Sb (217.582 nm)	> 100.00	0.0003 u (ppm)	-2.0805
6/12/2024 22:03:13	R2405081-004L 5X	Se (196.026 nm)	> 100.00	0.0004 u (ppm)	2.0310
6/12/2024 22:03:13	R2405081-004L 5X	Sn (189.925 nm)	87.22	-0.0028 u (ppm)	-0.0952
6/12/2024 22:03:13	R2405081-004L 5X	Sr (216.596 nm)	2.86	0.0208 (ppm)	205.7500
6/12/2024 22:03:13	R2405081-004L 5X	Ti (336.122 nm)	> 100.00	0.0002 (ppm)	-145.4373
6/12/2024 22:03:13	R2405081-004L 5X	Tl (190.794 nm)	> 100.00	0.0044 u (ppm)	1.9408
6/12/2024 22:03:13	R2405081-004L 5X	V (292.401 nm)	18.79	0.0009 (ppm)	53.7591
6/12/2024 22:03:13	R2405081-004L 5X	Y (360.074 nm)	0.39	1.02 (Ratio)	470947.01
6/12/2024 22:03:13	R2405081-004L 5X	Y_R (360.074 nm)	0.41	1.01 (Ratio)	468068.76
6/12/2024 22:03:13	R2405081-004L 5X	Zn (213.857 nm)	9.77	0.0015 (ppm)	47.6149

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/12/2024 22:06:27	R2405081-001 10X	Ag (328.068 nm)	68.90	0.0008 (ppm)	-45.6121
6/12/2024 22:06:27	R2405081-001 10X	Al (237.312 nm)	58.98	0.0055 (ppm)	80.8344
6/12/2024 22:06:27	R2405081-001 10X	As (188.980 nm)	64.31	-0.0023 u (ppm)	-0.0811
6/12/2024 22:06:27	R2405081-001 10X	B (249.772 nm)	48.30	0.0004 (ppm)	95.9868
6/12/2024 22:06:27	R2405081-001 10X	Ba (230.424 nm)	5.68	0.0019 (ppm)	53.8782
6/12/2024 22:06:27	R2405081-001 10X	Be (313.107 nm)	> 100.00	0.0000 u (ppm)	-349.9704
6/12/2024 22:06:27	R2405081-001 10X	Ca (317.933 nm)	0.27	4.2266 (ppm)	159329.4863
6/12/2024 22:06:27	R2405081-001 10X	Cd (214.439 nm)	> 100.00	-0.0001 u (ppm)	5.1985
6/12/2024 22:06:27	R2405081-001 10X	Co (230.786 nm)	> 100.00	-0.0004 u (ppm)	-17.6558
6/12/2024 22:06:27	R2405081-001 10X	Cr (267.716 nm)	> 100.00	-0.0004 u (ppm)	54.4485
6/12/2024 22:06:27	R2405081-001 10X	Cu (327.395 nm)	13.24	0.0011 (ppm)	40.8983
6/12/2024 22:06:27	R2405081-001 10X	Fe (234.350 nm)	3.16	0.0059 (ppm)	85.6854
6/12/2024 22:06:27	R2405081-001 10X	K (766.491 nm)	11.72	0.1359 (ppm)	274.9905
6/12/2024 22:06:27	R2405081-001 10X	Mg (279.078 nm)	0.45	0.6271 (ppm)	1553.2517
6/12/2024 22:06:27	R2405081-001 10X	Mn (257.610 nm)	1.57	0.0010 (ppm)	220.5905
6/12/2024 22:06:27	R2405081-001 10X	Mo (202.032 nm)	> 100.00	-0.0004 u (ppm)	-0.8242
6/12/2024 22:06:27	R2405081-001 10X	Na (588.995 nm)	0.88	1.2148 (ppm)	11784.1402
6/12/2024 22:06:27	R2405081-001 10X	Ni (230.299 nm)	69.83	-0.0005 u (ppm)	18.1748
6/12/2024 22:06:27	R2405081-001 10X	Pb (220.353 nm)	> 100.00	-0.0011 u (ppm)	-0.3212
6/12/2024 22:06:27	R2405081-001 10X	Sb (217.582 nm)	> 100.00	0.0042 (ppm)	1.2282
6/12/2024 22:06:27	R2405081-001 10X	Se (196.026 nm)	> 100.00	0.0001 u (ppm)	1.8120
6/12/2024 22:06:27	R2405081-001 10X	Sn (189.925 nm)	> 100.00	-0.0013 u (ppm)	1.2825
6/12/2024 22:06:27	R2405081-001 10X	Sr (216.596 nm)	9.24	0.0080 (ppm)	89.5722
6/12/2024 22:06:27	R2405081-001 10X	Ti (336.122 nm)	36.42	-0.0003 u (ppm)	-225.4109
6/12/2024 22:06:27	R2405081-001 10X	Tl (190.794 nm)	> 100.00	-0.0009 u (ppm)	-0.6767
6/12/2024 22:06:27	R2405081-001 10X	V (292.401 nm)	22.11	0.0011 (ppm)	58.4212
6/12/2024 22:06:27	R2405081-001 10X	Y (360.074 nm)	0.37	1.02 (Ratio)	472096.64
6/12/2024 22:06:27	R2405081-001 10X	Y_R (360.074 nm)	0.38	1.01 (Ratio)	469095.36
6/12/2024 22:06:27	R2405081-001 10X	Zn (213.857 nm)	11.95	0.0017 (ppm)	53.3697
6/13/2024 10:19:10	Continuing Calibration Verification	Ag (328.068 nm)	0.40	0.5240 (ppm)	25801.1469
6/13/2024 10:19:10	Continuing Calibration Verification	Al (237.312 nm)	0.59	10.2947 (ppm)	13106.4975
6/13/2024 10:19:10	Continuing Calibration Verification	As (188.980 nm)	0.78	1.0151 (ppm)	982.5371
6/13/2024 10:19:10	Continuing Calibration Verification	B (249.772 nm)	0.52	2.6073 (ppm)	87488.7862
6/13/2024 10:19:10	Continuing Calibration Verification	Ba (230.424 nm)	0.67	10.1015 (ppm)	270509.6575
6/13/2024 10:19:10	Continuing Calibration Verification	Be (313.107 nm)	0.30	0.2567 (ppm)	349820.4298
6/13/2024 10:19:10	Continuing Calibration Verification	Ca (317.933 nm)	0.52	25.8555 (ppm)	963503.3689
6/13/2024 10:19:10	Continuing Calibration Verification	Cd (214.439 nm)	0.33	0.5103 (ppm)	12961.3285
6/13/2024 10:19:10	Continuing Calibration Verification	Co (230.786 nm)	0.39	2.5250 (ppm)	24805.5699
6/13/2024 10:19:10	Continuing Calibration Verification	Cr (267.716 nm)	0.58	0.5069 (ppm)	14599.6540
6/13/2024 10:19:10	Continuing Calibration Verification	Cu (327.395 nm)	0.29	1.3438 (ppm)	47178.3340
6/13/2024 10:19:10	Continuing Calibration Verification	Fe (234.350 nm)	0.48	5.0354 (ppm)	34856.6214
6/13/2024 10:19:10	Continuing Calibration Verification	K (766.491 nm)	0.44	26.7963 (ppm)	60639.3735
6/13/2024 10:19:10	Continuing Calibration Verification	Mg (279.078 nm)	0.42	25.5725 (ppm)	62938.2368
6/13/2024 10:19:10	Continuing Calibration Verification	Mn (257.610 nm)	0.51	0.7362 (ppm)	157266.2379
6/13/2024 10:19:10	Continuing Calibration Verification	Mo (202.032 nm)	1.95	2.5784 (ppm)	11191.1084
6/13/2024 10:19:10	Continuing Calibration Verification	Na (588.995 nm)	0.64	26.7234 (ppm)	765250.0950
6/13/2024 10:19:10	Continuing Calibration Verification	Ni (230.299 nm)	0.25	2.0947 (ppm)	18250.0818
6/13/2024 10:19:10	Continuing Calibration Verification	Pb (220.353 nm)	0.99	0.5084 (ppm)	1182.6569
6/13/2024 10:19:10	Continuing Calibration Verification	Sb (217.582 nm)	0.55	5.0559 (ppm)	4214.6505
6/13/2024 10:19:10	Continuing Calibration Verification	Se (196.026 nm)	2.43	0.5064 (ppm)	348.2831
6/13/2024 10:19:10	Continuing Calibration Verification	Sn (189.925 nm)	0.49	5.2667 (ppm)	4871.8160

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/13/2024 10:19:10	Continuing Calibration Verification	Sr (216.596 nm)	0.52	2.4377 (ppm)	22149.4240
6/13/2024 10:19:10	Continuing Calibration Verification	Ti (336.122 nm)	0.79	2.6260 (ppm)	369831.6460
6/13/2024 10:19:10	Continuing Calibration Verification	Tl (190.794 nm)	0.90	1.0292 (ppm)	510.9217
6/13/2024 10:19:10	Continuing Calibration Verification	V (292.401 nm)	0.63	2.6370 (ppm)	62827.0404
6/13/2024 10:19:10	Continuing Calibration Verification	Y (360.074 nm)	0.24	0.92 (Ratio)	424410.77
6/13/2024 10:19:10	Continuing Calibration Verification	Y_R (360.074 nm)	0.24	0.91 (Ratio)	424089.80
6/13/2024 10:19:10	Continuing Calibration Verification	Zn (213.857 nm)	0.38	1.0153 (ppm)	30817.7252
6/13/2024 10:22:23	Continuing Calibration Blank	Ag (328.068 nm)	34.33	0.0006 (ppm)	-57.6572
6/13/2024 10:22:23	Continuing Calibration Blank	Al (237.312 nm)	42.48	0.0049 (ppm)	80.0896
6/13/2024 10:22:23	Continuing Calibration Blank	As (188.980 nm)	> 100.00	-0.0001 u (ppm)	2.0811
6/13/2024 10:22:23	Continuing Calibration Blank	B (249.772 nm)	> 100.00	-0.0002 u (ppm)	78.5319
6/13/2024 10:22:23	Continuing Calibration Blank	Ba (230.424 nm)	19.19	0.0002 (ppm)	9.3036
6/13/2024 10:22:23	Continuing Calibration Blank	Be (313.107 nm)	> 100.00	0.0000 u (ppm)	-338.6625
6/13/2024 10:22:23	Continuing Calibration Blank	Ca (317.933 nm)	37.08	-0.0010 u (ppm)	2143.9568
6/13/2024 10:22:23	Continuing Calibration Blank	Cd (214.439 nm)	26.41	0.0001 (ppm)	10.3093
6/13/2024 10:22:23	Continuing Calibration Blank	Co (230.786 nm)	> 100.00	-0.0005 u (ppm)	-18.7730
6/13/2024 10:22:23	Continuing Calibration Blank	Cr (267.716 nm)	64.55	-0.0003 u (ppm)	57.3228
6/13/2024 10:22:23	Continuing Calibration Blank	Cu (327.395 nm)	77.68	0.0003 (ppm)	12.2173
6/13/2024 10:22:23	Continuing Calibration Blank	Fe (234.350 nm)	2.71	0.0011 (ppm)	52.8526
6/13/2024 10:22:23	Continuing Calibration Blank	K (766.491 nm)	> 100.00	0.0016 u (ppm)	-29.1286
6/13/2024 10:22:23	Continuing Calibration Blank	Mg (279.078 nm)	62.44	-0.0022 u (ppm)	4.8712
6/13/2024 10:22:23	Continuing Calibration Blank	Mn (257.610 nm)	> 100.00	0.0000 u (ppm)	8.4706
6/13/2024 10:22:23	Continuing Calibration Blank	Mo (202.032 nm)	15.11	0.0159 (ppm)	70.0047
6/13/2024 10:22:23	Continuing Calibration Blank	Na (588.995 nm)	2.87	-0.0521 u (ppm)	-25638.2035
6/13/2024 10:22:23	Continuing Calibration Blank	Ni (230.299 nm)	92.66	-0.0004 u (ppm)	18.2520
6/13/2024 10:22:23	Continuing Calibration Blank	Pb (220.353 nm)	> 100.00	0.0012 u (ppm)	5.2079
6/13/2024 10:22:23	Continuing Calibration Blank	Sb (217.582 nm)	34.10	0.0328 (ppm)	25.0400
6/13/2024 10:22:23	Continuing Calibration Blank	Se (196.026 nm)	> 100.00	0.0028 u (ppm)	3.6453
6/13/2024 10:22:23	Continuing Calibration Blank	Sn (189.925 nm)	> 100.00	-0.0020 u (ppm)	0.6717
6/13/2024 10:22:23	Continuing Calibration Blank	Sr (216.596 nm)	53.09	-0.0005 u (ppm)	12.3546
6/13/2024 10:22:23	Continuing Calibration Blank	Ti (336.122 nm)	23.73	0.0040 (ppm)	389.1682
6/13/2024 10:22:23	Continuing Calibration Blank	Tl (190.794 nm)	> 100.00	0.0010 u (ppm)	0.2692
6/13/2024 10:22:23	Continuing Calibration Blank	V (292.401 nm)	67.87	0.0006 (ppm)	44.6624
6/13/2024 10:22:23	Continuing Calibration Blank	Y (360.074 nm)	0.18	0.96 (Ratio)	443181.05
6/13/2024 10:22:23	Continuing Calibration Blank	Y_R (360.074 nm)	0.19	0.95 (Ratio)	443112.95
6/13/2024 10:22:23	Continuing Calibration Blank	Zn (213.857 nm)	42.12	0.0002 (ppm)	7.7477
6/13/2024 10:25:37	R2405081-002 10X	Ag (328.068 nm)	81.55	0.0002 ! (ppm)	-74.7851 !
6/13/2024 10:25:37	R2405081-002 10X	Al (237.312 nm)	> 100.00	-0.0131 !u (ppm)	57.2713 !
6/13/2024 10:25:37	R2405081-002 10X	As (188.980 nm)	> 100.00	-0.0008 !u (ppm)	1.3835 !
6/13/2024 10:25:37	R2405081-002 10X	B (249.772 nm)	> 100.00	-0.0007 !u (ppm)	60.7198 !
6/13/2024 10:25:37	R2405081-002 10X	Ba (230.424 nm)	> 100.00	0.0007 !u (ppm)	23.7112 !
6/13/2024 10:25:37	R2405081-002 10X	Be (313.107 nm)	84.70	0.0001 ! (ppm)	-201.8269 !
6/13/2024 10:25:37	R2405081-002 10X	Ca (317.933 nm)	> 100.00	2.5893 ! (ppm)	98454.8494 !
6/13/2024 10:25:37	R2405081-002 10X	Cd (214.439 nm)	66.41	-0.0001 !u (ppm)	3.8535 !
6/13/2024 10:25:37	R2405081-002 10X	Co (230.786 nm)	> 100.00	0.0002 !u (ppm)	-11.5443 !
6/13/2024 10:25:37	R2405081-002 10X	Cr (267.716 nm)	90.54	-0.0008 !u (ppm)	43.3207 !
6/13/2024 10:25:37	R2405081-002 10X	Cu (327.395 nm)	> 100.00	0.0000 !u (ppm)	1.6237 !
6/13/2024 10:25:37	R2405081-002 10X	Fe (234.350 nm)	> 100.00	0.0108 !u (ppm)	119.5443 !
6/13/2024 10:25:37	R2405081-002 10X	K (766.491 nm)	89.09	0.0736 ! (ppm)	133.9612 !
6/13/2024 10:25:37	R2405081-002 10X	Mg (279.078 nm)	> 100.00	0.3634 ! (ppm)	904.4775 !
6/13/2024 10:25:37	R2405081-002 10X	Mn (257.610 nm)	> 100.00	0.0015 !u (ppm)	333.9064 !

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/13/2024 10:25:37	R2405081-002 10X	Mo (202.032 nm)	22.57	0.0024 ! (ppm)	11.3148 !
6/13/2024 10:25:37	R2405081-002 10X	Na (588.995 nm)	48.51	0.7782 ! (ppm)	-1113.1777 !
6/13/2024 10:25:37	R2405081-002 10X	Ni (230.299 nm)	96.37	-0.0013 !u (ppm)	10.4172 !
6/13/2024 10:25:37	R2405081-002 10X	Pb (220.353 nm)	> 100.00	-0.0004 !u (ppm)	1.4629 !
6/13/2024 10:25:37	R2405081-002 10X	Sb (217.582 nm)	38.35	0.0108 ! (ppm)	6.7321 !
6/13/2024 10:25:37	R2405081-002 10X	Se (196.026 nm)	> 100.00	0.0014 !u (ppm)	2.6905 !
6/13/2024 10:25:37	R2405081-002 10X	Sn (189.925 nm)	> 100.00	-0.0009 !u (ppm)	1.6078 !
6/13/2024 10:25:37	R2405081-002 10X	Sr (216.596 nm)	> 100.00	0.0048 !u (ppm)	60.9517 !
6/13/2024 10:25:37	R2405081-002 10X	Ti (336.122 nm)	84.02	0.0006 ! (ppm)	-97.3640 !
6/13/2024 10:25:37	R2405081-002 10X	Tl (190.794 nm)	> 100.00	0.0000 !u (ppm)	-0.2663 !
6/13/2024 10:25:37	R2405081-002 10X	V (292.401 nm)	> 100.00	0.0001 !u (ppm)	33.3146 !
6/13/2024 10:25:37	R2405081-002 10X	Y (360.074 nm)	41.20	1.62 ! (Ratio)	750936.19 !
6/13/2024 10:25:37	R2405081-002 10X	Y_R (360.074 nm)	41.17	1.62 ! (Ratio)	750957.09 !
6/13/2024 10:25:37	R2405081-002 10X	Zn (213.857 nm)	> 100.00	0.0003 !u (ppm)	10.3237 !
6/13/2024 10:28:50	R2405081-003 10X	Ag (328.068 nm)	32.92	0.0004 (ppm)	-65.7803
6/13/2024 10:28:50	R2405081-003 10X	Al (237.312 nm)	8.39	0.0143 (ppm)	91.9375
6/13/2024 10:28:50	R2405081-003 10X	As (188.980 nm)	25.38	-0.0042 u (ppm)	-1.9184
6/13/2024 10:28:50	R2405081-003 10X	B (249.772 nm)	> 100.00	0.0002 (ppm)	91.0549
6/13/2024 10:28:50	R2405081-003 10X	Ba (230.424 nm)	1.97	0.0032 (ppm)	88.9600
6/13/2024 10:28:50	R2405081-003 10X	Be (313.107 nm)	> 100.00	0.0000 u (ppm)	-357.3016
6/13/2024 10:28:50	R2405081-003 10X	Ca (317.933 nm)	0.15	6.5324 (ppm)	245060.0872
6/13/2024 10:28:50	R2405081-003 10X	Cd (214.439 nm)	> 100.00	0.0002 u (ppm)	11.7925
6/13/2024 10:28:50	R2405081-003 10X	Co (230.786 nm)	47.32	-0.0007 u (ppm)	-20.7806
6/13/2024 10:28:50	R2405081-003 10X	Cr (267.716 nm)	> 100.00	0.0000 u (ppm)	65.7285
6/13/2024 10:28:50	R2405081-003 10X	Cu (327.395 nm)	> 100.00	0.0000 u (ppm)	3.9992
6/13/2024 10:28:50	R2405081-003 10X	Fe (234.350 nm)	1.93	0.0151 (ppm)	149.1062
6/13/2024 10:28:50	R2405081-003 10X	K (766.491 nm)	9.00	0.0950 (ppm)	182.4170
6/13/2024 10:28:50	R2405081-003 10X	Mg (279.078 nm)	0.37	0.9422 (ppm)	2328.6166
6/13/2024 10:28:50	R2405081-003 10X	Mn (257.610 nm)	7.65	0.0003 (ppm)	77.6398
6/13/2024 10:28:50	R2405081-003 10X	Mo (202.032 nm)	24.77	0.0018 (ppm)	8.6053
6/13/2024 10:28:50	R2405081-003 10X	Na (588.995 nm)	0.37	2.2150 (ppm)	41327.4541
6/13/2024 10:28:50	R2405081-003 10X	Ni (230.299 nm)	46.52	-0.0005 u (ppm)	17.6591
6/13/2024 10:28:50	R2405081-003 10X	Pb (220.353 nm)	> 100.00	-0.0001 u (ppm)	2.1161
6/13/2024 10:28:50	R2405081-003 10X	Sb (217.582 nm)	52.67	0.0109 (ppm)	6.7646
6/13/2024 10:28:50	R2405081-003 10X	Se (196.026 nm)	> 100.00	0.0026 u (ppm)	3.5743
6/13/2024 10:28:50	R2405081-003 10X	Sn (189.925 nm)	27.34	-0.0036 u (ppm)	-0.8483
6/13/2024 10:28:50	R2405081-003 10X	Sr (216.596 nm)	7.39	0.0117 (ppm)	123.3638
6/13/2024 10:28:50	R2405081-003 10X	Ti (336.122 nm)	> 100.00	0.0000 u (ppm)	-174.2133
6/13/2024 10:28:50	R2405081-003 10X	Tl (190.794 nm)	> 100.00	0.0015 u (ppm)	0.4792
6/13/2024 10:28:50	R2405081-003 10X	V (292.401 nm)	74.99	0.0008 (ppm)	50.6302
6/13/2024 10:28:50	R2405081-003 10X	Y (360.074 nm)	0.10	0.98 (Ratio)	454630.74
6/13/2024 10:28:50	R2405081-003 10X	Y_R (360.074 nm)	0.08	0.98 (Ratio)	455127.59
6/13/2024 10:28:50	R2405081-003 10X	Zn (213.857 nm)	44.86	0.0004 (ppm)	12.7944
6/13/2024 10:32:03	R2405081-004 10X	Ag (328.068 nm)	25.34	0.0003 (ppm)	-70.1032
6/13/2024 10:32:03	R2405081-004 10X	Al (237.312 nm)	26.85	0.0130 (ppm)	90.2758
6/13/2024 10:32:03	R2405081-004 10X	As (188.980 nm)	> 100.00	-0.0014 u (ppm)	0.7576
6/13/2024 10:32:03	R2405081-004 10X	B (249.772 nm)	74.17	0.0005 (ppm)	100.3088
6/13/2024 10:32:03	R2405081-004 10X	Ba (230.424 nm)	6.86	0.0030 (ppm)	85.2827
6/13/2024 10:32:03	R2405081-004 10X	Be (313.107 nm)	96.96	0.0000 u (ppm)	-363.0203
6/13/2024 10:32:03	R2405081-004 10X	Ca (317.933 nm)	0.35	8.0363 (ppm)	300976.4413
6/13/2024 10:32:03	R2405081-004 10X	Cd (214.439 nm)	> 100.00	0.0000 u (ppm)	7.6556

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/13/2024 10:32:03	R2405081-004 10X	Co (230.786 nm)	50.46	-0.0005 u (ppm)	-18.8537
6/13/2024 10:32:03	R2405081-004 10X	Cr (267.716 nm)	> 100.00	-0.0001 u (ppm)	62.8626
6/13/2024 10:32:03	R2405081-004 10X	Cu (327.395 nm)	> 100.00	0.0007 u (ppm)	27.5904
6/13/2024 10:32:03	R2405081-004 10X	Fe (234.350 nm)	4.67	0.0107 (ppm)	118.7996
6/13/2024 10:32:03	R2405081-004 10X	K (766.491 nm)	76.27	0.0323 (ppm)	40.5502
6/13/2024 10:32:03	R2405081-004 10X	Mg (279.078 nm)	0.28	0.6584 (ppm)	1630.3498
6/13/2024 10:32:03	R2405081-004 10X	Mn (257.610 nm)	8.39	0.0005 (ppm)	111.3283
6/13/2024 10:32:03	R2405081-004 10X	Mo (202.032 nm)	> 100.00	0.0006 (ppm)	3.4742
6/13/2024 10:32:03	R2405081-004 10X	Na (588.995 nm)	0.58	0.9271 (ppm)	3285.9592
6/13/2024 10:32:03	R2405081-004 10X	Ni (230.299 nm)	> 100.00	-0.0003 u (ppm)	19.8104
6/13/2024 10:32:03	R2405081-004 10X	Pb (220.353 nm)	> 100.00	-0.0008 u (ppm)	0.5549
6/13/2024 10:32:03	R2405081-004 10X	Sb (217.582 nm)	41.40	0.0081 (ppm)	4.4227
6/13/2024 10:32:03	R2405081-004 10X	Se (196.026 nm)	> 100.00	0.0005 u (ppm)	2.0908
6/13/2024 10:32:03	R2405081-004 10X	Sn (189.925 nm)	> 100.00	-0.0020 u (ppm)	0.6103
6/13/2024 10:32:03	R2405081-004 10X	Sr (216.596 nm)	2.24	0.0106 (ppm)	113.5796
6/13/2024 10:32:03	R2405081-004 10X	Ti (336.122 nm)	55.52	-0.0002 u (ppm)	-210.7824
6/13/2024 10:32:03	R2405081-004 10X	Tl (190.794 nm)	> 100.00	0.0014 u (ppm)	0.4327
6/13/2024 10:32:03	R2405081-004 10X	V (292.401 nm)	74.70	0.0003 (ppm)	39.0073
6/13/2024 10:32:03	R2405081-004 10X	Y (360.074 nm)	0.19	0.99 (Ratio)	456364.44
6/13/2024 10:32:03	R2405081-004 10X	Y_R (360.074 nm)	0.19	0.99 (Ratio)	457050.51
6/13/2024 10:32:03	R2405081-004 10X	Zn (213.857 nm)	13.79	0.0009 (ppm)	28.9162
6/13/2024 10:35:17	Continuing Calibration Verification	Ag (328.068 nm)	0.70	0.5151 (ppm)	25361.6110
6/13/2024 10:35:17	Continuing Calibration Verification	Al (237.312 nm)	0.60	10.1649 (ppm)	12942.2269
6/13/2024 10:35:17	Continuing Calibration Verification	As (188.980 nm)	1.11	1.0070 (ppm)	974.6762
6/13/2024 10:35:17	Continuing Calibration Verification	B (249.772 nm)	0.77	2.5397 (ppm)	85220.5886
6/13/2024 10:35:17	Continuing Calibration Verification	Ba (230.424 nm)	1.07	9.9904 (ppm)	267535.0006
6/13/2024 10:35:17	Continuing Calibration Verification	Be (313.107 nm)	0.75	0.2492 (ppm)	339590.3702
6/13/2024 10:35:17	Continuing Calibration Verification	Ca (317.933 nm)	0.55	25.4924 (ppm)	950004.2699
6/13/2024 10:35:17	Continuing Calibration Verification	Cd (214.439 nm)	0.60	0.5019 (ppm)	12747.7790
6/13/2024 10:35:17	Continuing Calibration Verification	Co (230.786 nm)	0.63	2.5046 (ppm)	24604.2016
6/13/2024 10:35:17	Continuing Calibration Verification	Cr (267.716 nm)	0.76	0.5074 (ppm)	14613.2511
6/13/2024 10:35:17	Continuing Calibration Verification	Cu (327.395 nm)	0.73	1.3037 (ppm)	45771.4365
6/13/2024 10:35:17	Continuing Calibration Verification	Fe (234.350 nm)	0.82	4.9493 (ppm)	34260.8358
6/13/2024 10:35:17	Continuing Calibration Verification	K (766.491 nm)	0.53	25.8347 (ppm)	58462.2758
6/13/2024 10:35:17	Continuing Calibration Verification	Mg (279.078 nm)	0.65	25.1647 (ppm)	61934.7568
6/13/2024 10:35:17	Continuing Calibration Verification	Mn (257.610 nm)	0.83	0.7281 (ppm)	155530.3614
6/13/2024 10:35:17	Continuing Calibration Verification	Mo (202.032 nm)	1.98	2.5525 (ppm)	11078.6266
6/13/2024 10:35:17	Continuing Calibration Verification	Na (588.995 nm)	0.63	25.8439 (ppm)	739270.1119
6/13/2024 10:35:17	Continuing Calibration Verification	Ni (230.299 nm)	0.71	2.0513 (ppm)	17872.2691
6/13/2024 10:35:17	Continuing Calibration Verification	Pb (220.353 nm)	0.52	0.5018 (ppm)	1167.2456
6/13/2024 10:35:17	Continuing Calibration Verification	Sb (217.582 nm)	0.77	4.9750 (ppm)	4147.1807
6/13/2024 10:35:17	Continuing Calibration Verification	Se (196.026 nm)	0.45	0.4967 (ppm)	341.6197
6/13/2024 10:35:17	Continuing Calibration Verification	Sn (189.925 nm)	0.72	5.1576 (ppm)	4770.9560
6/13/2024 10:35:17	Continuing Calibration Verification	Sr (216.596 nm)	0.95	2.4385 (ppm)	22156.5198
6/13/2024 10:35:17	Continuing Calibration Verification	Ti (336.122 nm)	1.00	2.6134 (ppm)	368049.4619
6/13/2024 10:35:17	Continuing Calibration Verification	Tl (190.794 nm)	0.66	0.9966 (ppm)	494.7311
6/13/2024 10:35:17	Continuing Calibration Verification	V (292.401 nm)	0.85	2.5834 (ppm)	61550.6941
6/13/2024 10:35:17	Continuing Calibration Verification	Y (360.074 nm)	0.13	0.96 (Ratio)	442626.73
6/13/2024 10:35:17	Continuing Calibration Verification	Y_R (360.074 nm)	0.13	0.96 (Ratio)	443438.17
6/13/2024 10:35:17	Continuing Calibration Verification	Zn (213.857 nm)	0.60	0.9951 (ppm)	30205.6563
6/13/2024 10:38:30	Continuing Calibration Blank	Ag (328.068 nm)	78.85	0.0002 (ppm)	-74.1938

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/13/2024 10:38:30	Continuing Calibration Blank	Al (237.312 nm)	> 100.00	0.0002 u (ppm)	74.0479
6/13/2024 10:38:30	Continuing Calibration Blank	As (188.980 nm)	56.41	0.0035 (ppm)	5.4999
6/13/2024 10:38:30	Continuing Calibration Blank	B (249.772 nm)	> 100.00	-0.0001 u (ppm)	80.9183
6/13/2024 10:38:30	Continuing Calibration Blank	Ba (230.424 nm)	92.99	0.0002 u (ppm)	10.5821
6/13/2024 10:38:30	Continuing Calibration Blank	Be (313.107 nm)	84.32	0.0000 (ppm)	-335.0159
6/13/2024 10:38:30	Continuing Calibration Blank	Ca (317.933 nm)	6.61	0.0015 (ppm)	2238.6328
6/13/2024 10:38:30	Continuing Calibration Blank	Cd (214.439 nm)	21.07	0.0002 (ppm)	11.6227
6/13/2024 10:38:30	Continuing Calibration Blank	Co (230.786 nm)	> 100.00	0.0000 u (ppm)	-13.5216
6/13/2024 10:38:30	Continuing Calibration Blank	Cr (267.716 nm)	56.06	-0.0004 u (ppm)	55.6673
6/13/2024 10:38:30	Continuing Calibration Blank	Cu (327.395 nm)	94.02	-0.0004 u (ppm)	-13.1089
6/13/2024 10:38:30	Continuing Calibration Blank	Fe (234.350 nm)	62.02	0.0015 (ppm)	55.0510
6/13/2024 10:38:30	Continuing Calibration Blank	K (766.491 nm)	31.20	-0.0077 u (ppm)	-50.0385
6/13/2024 10:38:30	Continuing Calibration Blank	Mg (279.078 nm)	> 100.00	-0.0009 u (ppm)	7.9316
6/13/2024 10:38:30	Continuing Calibration Blank	Mn (257.610 nm)	> 100.00	0.0000 u (ppm)	7.9936
6/13/2024 10:38:30	Continuing Calibration Blank	Mo (202.032 nm)	9.55	0.0163 (ppm)	71.6286
6/13/2024 10:38:30	Continuing Calibration Blank	Na (588.995 nm)	9.41	-0.0270 u (ppm)	-24896.0293
6/13/2024 10:38:30	Continuing Calibration Blank	Ni (230.299 nm)	> 100.00	0.0001 u (ppm)	23.1263
6/13/2024 10:38:30	Continuing Calibration Blank	Pb (220.353 nm)	82.74	-0.0013 u (ppm)	-0.6642
6/13/2024 10:38:30	Continuing Calibration Blank	Sb (217.582 nm)	17.96	0.0364 (ppm)	28.0278
6/13/2024 10:38:30	Continuing Calibration Blank	Se (196.026 nm)	> 100.00	-0.0002 u (ppm)	1.6161
6/13/2024 10:38:30	Continuing Calibration Blank	Sn (189.925 nm)	> 100.00	-0.0003 u (ppm)	2.1780
6/13/2024 10:38:30	Continuing Calibration Blank	Sr (216.596 nm)	> 100.00	-0.0001 u (ppm)	15.8152
6/13/2024 10:38:30	Continuing Calibration Blank	Ti (336.122 nm)	24.51	0.0040 (ppm)	391.4562
6/13/2024 10:38:30	Continuing Calibration Blank	Tl (190.794 nm)	> 100.00	-0.0016 u (ppm)	-1.0587
6/13/2024 10:38:30	Continuing Calibration Blank	V (292.401 nm)	5.69	0.0005 (ppm)	44.4775
6/13/2024 10:38:30	Continuing Calibration Blank	Y (360.074 nm)	0.15	1.00 (Ratio)	461634.40
6/13/2024 10:38:30	Continuing Calibration Blank	Y_R (360.074 nm)	0.14	1.00 (Ratio)	462604.52
6/13/2024 10:38:30	Continuing Calibration Blank	Zn (213.857 nm)	44.37	0.0003 (ppm)	10.4067
6/13/2024 10:41:44	Contract Required Detection Limit	Ag (328.068 nm)	3.75	0.0090 (ppm)	360.7907
6/13/2024 10:41:44	Contract Required Detection Limit	Al (237.312 nm)	1.25	0.1878 (ppm)	311.6003
6/13/2024 10:41:44	Contract Required Detection Limit	As (188.980 nm)	13.07	0.0181 (ppm)	19.6761
6/13/2024 10:41:44	Contract Required Detection Limit	B (249.772 nm)	0.87	0.1999 (ppm)	6786.3049
6/13/2024 10:41:44	Contract Required Detection Limit	Ba (230.424 nm)	0.93	0.1993 (ppm)	5340.8523
6/13/2024 10:41:44	Contract Required Detection Limit	Be (313.107 nm)	0.61	0.0051 (ppm)	6562.5680
6/13/2024 10:41:44	Contract Required Detection Limit	Ca (317.933 nm)	0.55	1.0450 (ppm)	41035.5202
6/13/2024 10:41:44	Contract Required Detection Limit	Cd (214.439 nm)	2.14	0.0103 (ppm)	269.4139
6/13/2024 10:41:44	Contract Required Detection Limit	Co (230.786 nm)	2.81	0.0502 (ppm)	479.9332
6/13/2024 10:41:44	Contract Required Detection Limit	Cr (267.716 nm)	3.45	0.0093 (ppm)	334.3257
6/13/2024 10:41:44	Contract Required Detection Limit	Cu (327.395 nm)	1.66	0.0247 (ppm)	869.2462
6/13/2024 10:41:44	Contract Required Detection Limit	Fe (234.350 nm)	0.84	0.1039 (ppm)	762.9893
6/13/2024 10:41:44	Contract Required Detection Limit	K (766.491 nm)	1.62	0.9872 (ppm)	2202.5669
6/13/2024 10:41:44	Contract Required Detection Limit	Mg (279.078 nm)	0.52	1.0195 (ppm)	2519.0166
6/13/2024 10:41:44	Contract Required Detection Limit	Mn (257.610 nm)	0.56	0.0139 (ppm)	2966.4964
6/13/2024 10:41:44	Contract Required Detection Limit	Mo (202.032 nm)	4.08	0.0284 (ppm)	124.4669
6/13/2024 10:41:44	Contract Required Detection Limit	Na (588.995 nm)	0.83	1.0234 (ppm)	6130.0468
6/13/2024 10:41:44	Contract Required Detection Limit	Ni (230.299 nm)	2.67	0.0355 (ppm)	330.8965
6/13/2024 10:41:44	Contract Required Detection Limit	Pb (220.353 nm)	15.93	0.0129 R (ppm) 129%	32.3842 R
6/13/2024 10:41:44	Contract Required Detection Limit	Sb (217.582 nm)	2.53	0.0877 R (ppm)	70.8678 R
6/13/2024 10:41:44	Contract Required Detection Limit	Se (196.026 nm)	65.98	0.0083 (ppm)	7.4546
6/13/2024 10:41:44	Contract Required Detection Limit	Sn (189.925 nm)	0.89	0.5090 (ppm)	473.0700
6/13/2024 10:41:44	Contract Required Detection Limit	Sr (216.596 nm)	1.15	0.0977 (ppm)	904.3831

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/13/2024 10:41:44	Contract Required Detection Limit	Ti (336.122 nm)	0.52	0.0499 (ppm)	6851.5895
6/13/2024 10:41:44	Contract Required Detection Limit	Tl (190.794 nm)	25.56	0.0201 (ppm)	9.7639
6/13/2024 10:41:44	Contract Required Detection Limit	V (292.401 nm)	1.28	0.0512 (ppm)	1250.6443
6/13/2024 10:41:44	Contract Required Detection Limit	Y (360.074 nm)	0.35	0.99 (Ratio)	457883.37
6/13/2024 10:41:44	Contract Required Detection Limit	Y_R (360.074 nm)	0.36	0.99 (Ratio)	458851.91
6/13/2024 10:41:44	Contract Required Detection Limit	Zn (213.857 nm)	0.85	0.0176 (ppm)	536.4042
6/13/2024 10:44:57	Interference Check Solution A	Ag (328.068 nm)	> 100.00	-0.0002 u (ppm)	-92.3881
6/13/2024 10:44:57	Interference Check Solution A	Al (237.312 nm)	0.85	257.4752 o (ppm)	326026.3818
6/13/2024 10:44:57	Interference Check Solution A	As (188.980 nm)	> 100.00	-0.0035 u (ppm)	-1.2316
6/13/2024 10:44:57	Interference Check Solution A	B (249.772 nm)	1.50	0.0743 (ppm)	2575.6986
6/13/2024 10:44:57	Interference Check Solution A	Ba (230.424 nm)	> 100.00	0.0004 u (ppm)	14.5542
6/13/2024 10:44:57	Interference Check Solution A	Be (313.107 nm)	3.51	0.0001 (ppm)	-181.2756
6/13/2024 10:44:57	Interference Check Solution A	Ca (317.933 nm)	0.81	241.1176 o (ppm)	8967068.0063
6/13/2024 10:44:57	Interference Check Solution A	Cd (214.439 nm)	> 100.00	-0.0003 u (ppm)	-0.8407
6/13/2024 10:44:57	Interference Check Solution A	Co (230.786 nm)	33.35	-0.0015 u (ppm)	-28.5675
6/13/2024 10:44:57	Interference Check Solution A	Cr (267.716 nm)	10.93	0.0046 (ppm)	198.0225
6/13/2024 10:44:57	Interference Check Solution A	Cu (327.395 nm)	4.74	0.0076 (ppm)	268.0081
6/13/2024 10:44:57	Interference Check Solution A	Fe (234.350 nm)	1.07	94.0541 o (ppm)	650271.8813
6/13/2024 10:44:57	Interference Check Solution A	K (766.491 nm)	25.90	0.0586 (ppm)	99.9648
6/13/2024 10:44:57	Interference Check Solution A	Mg (279.078 nm)	0.67	253.5070 o (ppm)	623832.9099
6/13/2024 10:44:57	Interference Check Solution A	Mn (257.610 nm)	3.73	0.0011 (ppm)	234.6900
6/13/2024 10:44:57	Interference Check Solution A	Mo (202.032 nm)	> 100.00	0.0006 u (ppm)	3.5532
6/13/2024 10:44:57	Interference Check Solution A	Na (588.995 nm)	3.52	-0.0786 u (ppm)	-26419.4434
6/13/2024 10:44:57	Interference Check Solution A	Ni (230.299 nm)	> 100.00	-0.0004 u (ppm)	18.7241
6/13/2024 10:44:57	Interference Check Solution A	Pb (220.353 nm)	77.40	-0.0011 u (ppm)	-0.1646
6/13/2024 10:44:57	Interference Check Solution A	Sb (217.582 nm)	88.08	0.0091 (ppm)	5.2818
6/13/2024 10:44:57	Interference Check Solution A	Se (196.026 nm)	20.50	0.0031 (ppm)	3.9155
6/13/2024 10:44:57	Interference Check Solution A	Sn (189.925 nm)	> 100.00	-0.0020 u (ppm)	0.5926
6/13/2024 10:44:57	Interference Check Solution A	Sr (216.596 nm)	2.13	0.0130 (ppm)	135.1492
6/13/2024 10:44:57	Interference Check Solution A	Ti (336.122 nm)	29.85	0.0005 (ppm)	-100.7297
6/13/2024 10:44:57	Interference Check Solution A	Tl (190.794 nm)	> 100.00	0.0021 u (ppm)	0.7804
6/13/2024 10:44:57	Interference Check Solution A	V (292.401 nm)	10.96	0.0036 (ppm)	118.2278
6/13/2024 10:44:57	Interference Check Solution A	Y (360.074 nm)	0.31	0.91 (Ratio)	422141.73
6/13/2024 10:44:57	Interference Check Solution A	Y_R (360.074 nm)	0.31	0.91 (Ratio)	423291.32
6/13/2024 10:44:57	Interference Check Solution A	Zn (213.857 nm)	1.64	0.0104 (ppm)	318.2273
6/13/2024 10:48:11	Interference Check Solution AB	Ag (328.068 nm)	0.23	0.2054 (ppm)	10062.0475
6/13/2024 10:48:11	Interference Check Solution AB	Al (237.312 nm)	0.55	260.0932 o (ppm)	329340.6401
6/13/2024 10:48:11	Interference Check Solution AB	As (188.980 nm)	5.24	0.0968 (ppm)	95.6662
6/13/2024 10:48:11	Interference Check Solution AB	B (249.772 nm)	0.62	0.0724 (ppm)	2509.5999
6/13/2024 10:48:11	Interference Check Solution AB	Ba (230.424 nm)	0.65	0.5202 (ppm)	13933.4006
6/13/2024 10:48:11	Interference Check Solution AB	Be (313.107 nm)	0.44	0.5092 (ppm)	694356.5001
6/13/2024 10:48:11	Interference Check Solution AB	Ca (317.933 nm)	0.38	242.0398 o (ppm)	9001357.3272
6/13/2024 10:48:11	Interference Check Solution AB	Cd (214.439 nm)	0.31	0.9999 (ppm)	25390.8951
6/13/2024 10:48:11	Interference Check Solution AB	Co (230.786 nm)	0.17	0.4969 (ppm)	4870.1542
6/13/2024 10:48:11	Interference Check Solution AB	Cr (267.716 nm)	0.31	0.5184 (ppm)	14930.6954
6/13/2024 10:48:11	Interference Check Solution AB	Cu (327.395 nm)	0.56	0.5779 (ppm)	20292.4046
6/13/2024 10:48:11	Interference Check Solution AB	Fe (234.350 nm)	0.59	94.5632 o (ppm)	653791.4998
6/13/2024 10:48:11	Interference Check Solution AB	K (766.491 nm)	37.36	0.0533 (ppm)	88.0262
6/13/2024 10:48:11	Interference Check Solution AB	Mg (279.078 nm)	0.40	254.4693 o (ppm)	626200.8198
6/13/2024 10:48:11	Interference Check Solution AB	Mn (257.610 nm)	0.54	0.4933 (ppm)	105374.8530
6/13/2024 10:48:11	Interference Check Solution AB	Mo (202.032 nm)	> 100.00	-0.0004 u (ppm)	-0.6573

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/13/2024 10:48:11	Interference Check Solution AB	Na (588.995 nm)	6.72	-0.0798 u (ppm)	-26454.4314
6/13/2024 10:48:11	Interference Check Solution AB	Ni (230.299 nm)	0.26	0.9968 (ppm)	8696.4577
6/13/2024 10:48:11	Interference Check Solution AB	Pb (220.353 nm)	6.15	0.0489 (ppm)	115.9353
6/13/2024 10:48:11	Interference Check Solution AB	Sb (217.582 nm)	0.84	0.6276 (ppm)	521.1888
6/13/2024 10:48:11	Interference Check Solution AB	Se (196.026 nm)	17.02	0.0489 (ppm)	35.2493
6/13/2024 10:48:11	Interference Check Solution AB	Sn (189.925 nm)	39.52	-0.0052 u (ppm)	-2.3391
6/13/2024 10:48:11	Interference Check Solution AB	Sr (216.596 nm)	2.45	0.0135 (ppm)	139.8345
6/13/2024 10:48:11	Interference Check Solution AB	Ti (336.122 nm)	> 100.00	0.0001 u (ppm)	-167.9608
6/13/2024 10:48:11	Interference Check Solution AB	Tl (190.794 nm)	0.31	0.1053 (ppm)	52.0712
6/13/2024 10:48:11	Interference Check Solution AB	V (292.401 nm)	0.59	0.5356 (ppm)	12786.8025
6/13/2024 10:48:11	Interference Check Solution AB	Y (360.074 nm)	0.06	0.92 (Ratio)	423660.48
6/13/2024 10:48:11	Interference Check Solution AB	Y_R (360.074 nm)	0.06	0.92 (Ratio)	424926.56
6/13/2024 10:48:11	Interference Check Solution AB	Zn (213.857 nm)	0.40	1.0347 (ppm)	31408.0309
6/13/2024 10:51:24	Continuing Calibration Verification1	Ag (328.068 nm)	0.73	0.5193 (ppm)	25568.1203
6/13/2024 10:51:24	Continuing Calibration Verification1	Al (237.312 nm)	0.77	10.3077 (ppm)	13123.0096
6/13/2024 10:51:24	Continuing Calibration Verification1	As (188.980 nm)	1.42	1.0134 (ppm)	980.8922
6/13/2024 10:51:24	Continuing Calibration Verification1	B (249.772 nm)	0.88	2.5506 (ppm)	85586.8245
6/13/2024 10:51:24	Continuing Calibration Verification1	Ba (230.424 nm)	1.24	10.0755 (ppm)	269814.2951
6/13/2024 10:51:24	Continuing Calibration Verification1	Be (313.107 nm)	0.95	0.2523 (ppm)	343832.3025
6/13/2024 10:51:24	Continuing Calibration Verification1	Ca (317.933 nm)	0.62	25.8860 (ppm)	964639.2338
6/13/2024 10:51:24	Continuing Calibration Verification1	Cd (214.439 nm)	0.58	0.5060 (ppm)	12851.8546
6/13/2024 10:51:24	Continuing Calibration Verification1	Co (230.786 nm)	0.62	2.5298 (ppm)	24852.5840
6/13/2024 10:51:24	Continuing Calibration Verification1	Cr (267.716 nm)	0.65	0.5147 (ppm)	14823.5515
6/13/2024 10:51:24	Continuing Calibration Verification1	Cu (327.395 nm)	0.84	1.3122 (ppm)	46070.0324
6/13/2024 10:51:24	Continuing Calibration Verification1	Fe (234.350 nm)	0.57	5.0275 (ppm)	34801.4880
6/13/2024 10:51:24	Continuing Calibration Verification1	K (766.491 nm)	0.66	25.9326 (ppm)	58683.7373
6/13/2024 10:51:24	Continuing Calibration Verification1	Mg (279.078 nm)	0.69	25.4368 (ppm)	62604.3305
6/13/2024 10:51:24	Continuing Calibration Verification1	Mn (257.610 nm)	0.71	0.7365 (ppm)	157320.5546
6/13/2024 10:51:24	Continuing Calibration Verification1	Mo (202.032 nm)	1.76	2.5907 (ppm)	11244.5561
6/13/2024 10:51:24	Continuing Calibration Verification1	Na (588.995 nm)	0.60	25.8348 (ppm)	739002.8712
6/13/2024 10:51:24	Continuing Calibration Verification1	Ni (230.299 nm)	0.63	2.0638 (ppm)	17980.7577
6/13/2024 10:51:24	Continuing Calibration Verification1	Pb (220.353 nm)	1.15	0.5045 (ppm)	1173.6442
6/13/2024 10:51:24	Continuing Calibration Verification1	Sb (217.582 nm)	1.24	5.0005 (ppm)	4168.5006
6/13/2024 10:51:24	Continuing Calibration Verification1	Se (196.026 nm)	1.46	0.5063 (ppm)	348.2043
6/13/2024 10:51:24	Continuing Calibration Verification1	Sn (189.925 nm)	0.90	5.1702 (ppm)	4782.5879
6/13/2024 10:51:24	Continuing Calibration Verification1	Sr (216.596 nm)	0.62	2.4856 (ppm)	22584.5630
6/13/2024 10:51:24	Continuing Calibration Verification1	Ti (336.122 nm)	0.82	2.6475 (ppm)	372857.0225
6/13/2024 10:51:24	Continuing Calibration Verification1	Tl (190.794 nm)	0.61	0.9950 (ppm)	493.9814
6/13/2024 10:51:24	Continuing Calibration Verification1	V (292.401 nm)	0.74	2.6152 (ppm)	62306.5794
6/13/2024 10:51:24	Continuing Calibration Verification1	Y (360.074 nm)	0.36	0.97 (Ratio)	448152.84
6/13/2024 10:51:24	Continuing Calibration Verification1	Y_R (360.074 nm)	0.36	0.97 (Ratio)	449314.59
6/13/2024 10:51:24	Continuing Calibration Verification1	Zn (213.857 nm)	0.73	1.0021 (ppm)	30416.4246
6/13/2024 10:54:38	Continuing Calibration Blank1	Ag (328.068 nm)	78.67	0.0004 (ppm)	-66.2479
6/13/2024 10:54:38	Continuing Calibration Blank1	Al (237.312 nm)	> 100.00	0.0026 u (ppm)	77.1708
6/13/2024 10:54:38	Continuing Calibration Blank1	As (188.980 nm)	62.75	0.0022 (ppm)	4.3025
6/13/2024 10:54:38	Continuing Calibration Blank1	B (249.772 nm)	> 100.00	0.0000 u (ppm)	84.1784
6/13/2024 10:54:38	Continuing Calibration Blank1	Ba (230.424 nm)	> 100.00	0.0001 u (ppm)	7.6144
6/13/2024 10:54:38	Continuing Calibration Blank1	Be (313.107 nm)	> 100.00	0.0000 u (ppm)	-351.1214
6/13/2024 10:54:38	Continuing Calibration Blank1	Ca (317.933 nm)	34.45	0.0007 (ppm)	2208.1199
6/13/2024 10:54:38	Continuing Calibration Blank1	Cd (214.439 nm)	> 100.00	0.0000 u (ppm)	7.1529
6/13/2024 10:54:38	Continuing Calibration Blank1	Co (230.786 nm)	> 100.00	-0.0002 u (ppm)	-15.6459

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/13/2024 10:54:38	Continuing Calibration Blank1	Cr (267.716 nm)	> 100.00	-0.0004 u (ppm)	55.2982
6/13/2024 10:54:38	Continuing Calibration Blank1	Cu (327.395 nm)	83.06	-0.0004 u (ppm)	-11.4760
6/13/2024 10:54:38	Continuing Calibration Blank1	Fe (234.350 nm)	26.91	0.0033 (ppm)	67.7508
6/13/2024 10:54:38	Continuing Calibration Blank1	K (766.491 nm)	> 100.00	-0.0010 u (ppm)	-34.8559
6/13/2024 10:54:38	Continuing Calibration Blank1	Mg (279.078 nm)	61.22	-0.0015 u (ppm)	6.5176
6/13/2024 10:54:38	Continuing Calibration Blank1	Mn (257.610 nm)	> 100.00	0.0000 u (ppm)	8.6314
6/13/2024 10:54:38	Continuing Calibration Blank1	Mo (202.032 nm)	19.15	0.0161 (ppm)	71.0042
6/13/2024 10:54:38	Continuing Calibration Blank1	Na (588.995 nm)	> 100.00	-0.0057 u (ppm)	-24268.0136
6/13/2024 10:54:38	Continuing Calibration Blank1	Ni (230.299 nm)	> 100.00	-0.0009 u (ppm)	14.5447
6/13/2024 10:54:38	Continuing Calibration Blank1	Pb (220.353 nm)	> 100.00	0.0008 u (ppm)	4.1413
6/13/2024 10:54:38	Continuing Calibration Blank1	Sb (217.582 nm)	9.83	0.0391 (ppm)	30.3536
6/13/2024 10:54:38	Continuing Calibration Blank1	Se (196.026 nm)	> 100.00	0.0023 u (ppm)	3.3674
6/13/2024 10:54:38	Continuing Calibration Blank1	Sn (189.925 nm)	52.43	-0.0025 u (ppm)	0.1418
6/13/2024 10:54:38	Continuing Calibration Blank1	Sr (216.596 nm)	> 100.00	-0.0005 u (ppm)	12.3420
6/13/2024 10:54:38	Continuing Calibration Blank1	Ti (336.122 nm)	24.86	0.0036 (ppm)	327.1353
6/13/2024 10:54:38	Continuing Calibration Blank1	Tl (190.794 nm)	52.12	-0.0028 u (ppm)	-1.6522
6/13/2024 10:54:38	Continuing Calibration Blank1	V (292.401 nm)	98.08	0.0004 u (ppm)	41.3502
6/13/2024 10:54:38	Continuing Calibration Blank1	Y (360.074 nm)	0.32	1.01 (Ratio)	468119.54
6/13/2024 10:54:38	Continuing Calibration Blank1	Y_R (360.074 nm)	0.33	1.01 (Ratio)	469411.88
6/13/2024 10:54:38	Continuing Calibration Blank1	Zn (213.857 nm)	> 100.00	0.0001 u (ppm)	4.4311
6/13/2024 10:57:51	PBS-439839	Ag (328.068 nm)	> 100.00	0.0001 u (ppm)	-82.2250
6/13/2024 10:57:51	PBS-439839	Al (237.312 nm)	43.78	0.0081 (ppm)	84.1026
6/13/2024 10:57:51	PBS-439839	As (188.980 nm)	> 100.00	0.0008 u (ppm)	2.9422
6/13/2024 10:57:51	PBS-439839	B (249.772 nm)	8.71	0.0015 (ppm)	135.1439
6/13/2024 10:57:51	PBS-439839	Ba (230.424 nm)	> 100.00	0.0001 (ppm)	5.5933
6/13/2024 10:57:51	PBS-439839	Be (313.107 nm)	79.56	0.0000 (ppm)	-319.2165
6/13/2024 10:57:51	PBS-439839	Ca (317.933 nm)	2.87	0.0181 (ppm)	2854.0634
6/13/2024 10:57:51	PBS-439839	Cd (214.439 nm)	51.81	0.0002 (ppm)	12.5916
6/13/2024 10:57:51	PBS-439839	Co (230.786 nm)	55.91	0.0002 (ppm)	-11.4490
6/13/2024 10:57:51	PBS-439839	Cr (267.716 nm)	25.73	0.0003 (ppm)	76.0244
6/13/2024 10:57:51	PBS-439839	Cu (327.395 nm)	> 100.00	0.0004 u (ppm)	17.6757
6/13/2024 10:57:51	PBS-439839	Fe (234.350 nm)	8.17	0.0151 (ppm)	149.4149
6/13/2024 10:57:51	PBS-439839	K (766.491 nm)	> 100.00	0.0031 u (ppm)	-25.6992
6/13/2024 10:57:51	PBS-439839	Mg (279.078 nm)	> 100.00	0.0039 u (ppm)	19.7170
6/13/2024 10:57:51	PBS-439839	Mn (257.610 nm)	11.18	0.0004 (ppm)	82.7764
6/13/2024 10:57:51	PBS-439839	Mo (202.032 nm)	19.17	0.0050 (ppm)	22.6616
6/13/2024 10:57:51	PBS-439839	Na (588.995 nm)	26.66	0.0064 (ppm)	-23909.4782
6/13/2024 10:57:51	PBS-439839	Ni (230.299 nm)	64.41	-0.0017 u (ppm)	7.6006
6/13/2024 10:57:51	PBS-439839	Pb (220.353 nm)	> 100.00	-0.0007 u (ppm)	0.6309
6/13/2024 10:57:51	PBS-439839	Sb (217.582 nm)	26.86	0.0345 (ppm)	26.4446
6/13/2024 10:57:51	PBS-439839	Se (196.026 nm)	> 100.00	0.0010 u (ppm)	2.4461
6/13/2024 10:57:51	PBS-439839	Sn (189.925 nm)	49.07	0.0076 (ppm)	9.5177
6/13/2024 10:57:51	PBS-439839	Sr (216.596 nm)	78.55	-0.0005 u (ppm)	12.1130
6/13/2024 10:57:51	PBS-439839	Ti (336.122 nm)	14.96	-0.0019 u (ppm)	-447.4838
6/13/2024 10:57:51	PBS-439839	Tl (190.794 nm)	38.52	-0.0039 u (ppm)	-2.1723
6/13/2024 10:57:51	PBS-439839	V (292.401 nm)	> 100.00	0.0003 (ppm)	39.1649
6/13/2024 10:57:51	PBS-439839	Y (360.074 nm)	0.18	1.00 (Ratio)	463030.10
6/13/2024 10:57:51	PBS-439839	Y_R (360.074 nm)	0.18	1.00 (Ratio)	464196.59
6/13/2024 10:57:51	PBS-439839	Zn (213.857 nm)	35.58	0.0003 (ppm)	9.9223
6/13/2024 11:01:04	LCSS-439839	Ag (328.068 nm)	1.24	0.0494 (ppm)	2353.7458
6/13/2024 11:01:04	LCSS-439839	Al (237.312 nm)	0.88	1.9582 (ppm)	2552.9122

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/13/2024 11:01:04	LCSS-439839	As (188.980 nm)	2.73	0.0333 (ppm)	34.2938
6/13/2024 11:01:04	LCSS-439839	B (249.772 nm)	0.68	0.9680 (ppm)	32532.2735
6/13/2024 11:01:04	LCSS-439839	Ba (230.424 nm)	0.44	1.9544 (ppm)	52340.8945
6/13/2024 11:01:04	LCSS-439839	Be (313.107 nm)	0.66	0.0486 (ppm)	65974.5171
6/13/2024 11:01:04	LCSS-439839	Ca (317.933 nm)	0.67	2.0055 (ppm)	76748.6859
6/13/2024 11:01:04	LCSS-439839	Cd (214.439 nm)	1.01	0.0499 (ppm)	1273.2584
6/13/2024 11:01:04	LCSS-439839	Co (230.786 nm)	0.65	0.4900 (ppm)	4802.2768
6/13/2024 11:01:04	LCSS-439839	Cr (267.716 nm)	0.47	0.1981 (ppm)	5745.4404
6/13/2024 11:01:04	LCSS-439839	Cu (327.395 nm)	0.63	0.2605 (ppm)	9147.6576
6/13/2024 11:01:04	LCSS-439839	Fe (234.350 nm)	0.74	0.9824 (ppm)	6836.8352
6/13/2024 11:01:04	LCSS-439839	K (766.491 nm)	0.57	19.7161 (ppm)	44608.3630
6/13/2024 11:01:04	LCSS-439839	Mg (279.078 nm)	0.43	1.9225 (ppm)	4740.9105
6/13/2024 11:01:04	LCSS-439839	Mn (257.610 nm)	0.79	0.4731 (ppm)	101063.4393
6/13/2024 11:01:04	LCSS-439839	Mo (202.032 nm)	2.34	0.4759 (ppm)	2066.4752
6/13/2024 11:01:04	LCSS-439839	Na (588.995 nm)	0.68	19.9069 (ppm)	563905.0531
6/13/2024 11:01:04	LCSS-439839	Ni (230.299 nm)	0.78	0.5006 (ppm)	4377.8608
6/13/2024 11:01:04	LCSS-439839	Pb (220.353 nm)	0.25	0.4970 (ppm)	1156.2213
6/13/2024 11:01:04	LCSS-439839	Sb (217.582 nm)	1.20	0.5023 (ppm)	416.6942
6/13/2024 11:01:04	LCSS-439839	Se (196.026 nm)	2.20	0.9210 (ppm)	631.9453
6/13/2024 11:01:04	LCSS-439839	Sn (189.925 nm)	1.12	4.9538 (ppm)	4582.5132
6/13/2024 11:01:04	LCSS-439839	Sr (216.596 nm)	0.52	1.9258 (ppm)	17501.2916
6/13/2024 11:01:04	LCSS-439839	Ti (336.122 nm)	0.77	0.4966 (ppm)	69786.5612
6/13/2024 11:01:04	LCSS-439839	Tl (190.794 nm)	0.44	1.8734 (ppm)	930.2566
6/13/2024 11:01:04	LCSS-439839	V (292.401 nm)	0.69	0.4954 (ppm)	11827.2407
6/13/2024 11:01:04	LCSS-439839	Y (360.074 nm)	0.11	0.99 (Ratio)	459214.81
6/13/2024 11:01:04	LCSS-439839	Y_R (360.074 nm)	0.11	0.99 (Ratio)	460335.74
6/13/2024 11:01:04	LCSS-439839	Zn (213.857 nm)	0.25	0.4815 (ppm)	14617.2595
6/13/2024 11:04:17	R2404865-003	Ag (328.068 nm)	14.80	0.0006 (ppm)	-53.4237
6/13/2024 11:04:17	R2404865-003	Al (237.312 nm)	0.56	143.7606 o (ppm)	182068.5593
6/13/2024 11:04:17	R2404865-003	As (188.980 nm)	1.21	0.1138 (ppm)	112.0359
6/13/2024 11:04:17	R2404865-003	B (249.772 nm)	0.49	0.2117 (ppm)	7181.9639
6/13/2024 11:04:17	R2404865-003	Ba (230.424 nm)	0.82	1.7709 (ppm)	47425.4248
6/13/2024 11:04:17	R2404865-003	Be (313.107 nm)	0.49	0.0061 (ppm)	7981.5008
6/13/2024 11:04:17	R2404865-003	Ca (317.933 nm)	0.89	23.0998 (ppm)	861045.6181
6/13/2024 11:04:17	R2404865-003	Cd (214.439 nm)	4.74	0.0040 (ppm)	107.6183
6/13/2024 11:04:17	R2404865-003	Co (230.786 nm)	0.73	0.1052 (ppm)	1019.8923
6/13/2024 11:04:17	R2404865-003	Cr (267.716 nm)	0.78	0.1565 (ppm)	4552.5463
6/13/2024 11:04:17	R2404865-003	Cu (327.395 nm)	0.45	0.2868 (ppm)	10070.6660
6/13/2024 11:04:17	R2404865-003	Fe (234.350 nm)	0.73	239.0444 o (ppm)	1652637.1041
6/13/2024 11:04:17	R2404865-003	K (766.491 nm)	0.66	12.7929 (ppm)	28933.0411
6/13/2024 11:04:17	R2404865-003	Mg (279.078 nm)	0.41	27.7181 (ppm)	68218.0760
6/13/2024 11:04:17	R2404865-003	Mn (257.610 nm)	0.48	9.0523 o (ppm)	1933588.4022
6/13/2024 11:04:17	R2404865-003	Mo (202.032 nm)	15.59	0.0134 (ppm)	59.3658
6/13/2024 11:04:17	R2404865-003	Na (588.995 nm)	0.70	0.2695 (ppm)	-16139.3491
6/13/2024 11:04:17	R2404865-003	Ni (230.299 nm)	0.54	0.1732 (ppm)	1529.0120
6/13/2024 11:04:17	R2404865-003	Pb (220.353 nm)	1.35	0.2519 (ppm)	587.0877
6/13/2024 11:04:17	R2404865-003	Sb (217.582 nm)	83.84	0.0077 (ppm)	4.1382
6/13/2024 11:04:17	R2404865-003	Se (196.026 nm)	13.10	0.0241 (ppm)	18.2760
6/13/2024 11:04:17	R2404865-003	Sn (189.925 nm)	6.81	0.0629 (ppm)	60.6638
6/13/2024 11:04:17	R2404865-003	Sr (216.596 nm)	1.77	0.1007 (ppm)	930.8775
6/13/2024 11:04:17	R2404865-003	Ti (336.122 nm)	0.72	0.9406 (ppm)	132347.6401

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/13/2024 11:04:17	R2404865-003	Tl (190.794 nm)	> 100.00	0.0049 u (ppm)	2.1727
6/13/2024 11:04:17	R2404865-003	V (292.401 nm)	0.65	0.2292 (ppm)	5489.4490
6/13/2024 11:04:17	R2404865-003	Y (360.074 nm)	0.18	1.01 (Ratio)	468817.42
6/13/2024 11:04:17	R2404865-003	Y_R (360.074 nm)	0.18	1.01 (Ratio)	469988.12
6/13/2024 11:04:17	R2404865-003	Zn (213.857 nm)	0.77	0.9157 (ppm)	27794.6646
6/13/2024 11:07:30	R2404867-003	Ag (328.068 nm)	11.73	0.0062 (ppm)	220.4977
6/13/2024 11:07:30	R2404867-003	Al (237.312 nm)	0.70	10.3367 (ppm)	13159.7266
6/13/2024 11:07:30	R2404867-003	As (188.980 nm)	38.14	0.0082 (ppm)	10.1005
6/13/2024 11:07:30	R2404867-003	B (249.772 nm)	0.74	0.0825 (ppm)	2848.8853
6/13/2024 11:07:30	R2404867-003	Ba (230.424 nm)	0.61	1.1204 (ppm)	30007.9221
6/13/2024 11:07:30	R2404867-003	Be (313.107 nm)	2.39	0.0003 (ppm)	114.5822
6/13/2024 11:07:30	R2404867-003	Ca (317.933 nm)	0.53	67.9019 o (ppm)	2526812.3067
6/13/2024 11:07:30	R2404867-003	Cd (214.439 nm)	4.19	0.0041 (ppm)	110.7671
6/13/2024 11:07:30	R2404867-003	Co (230.786 nm)	3.36	0.0104 (ppm)	88.3894
6/13/2024 11:07:30	R2404867-003	Cr (267.716 nm)	0.15	0.0778 (ppm)	2298.1455
6/13/2024 11:07:30	R2404867-003	Cu (327.395 nm)	0.97	1.5718 (ppm)	55185.3412
6/13/2024 11:07:30	R2404867-003	Fe (234.350 nm)	0.50	21.9010 o (ppm)	151453.7317
6/13/2024 11:07:30	R2404867-003	K (766.491 nm)	0.43	7.4923 (ppm)	16931.3966
6/13/2024 11:07:30	R2404867-003	Mg (279.078 nm)	0.50	9.1783 (ppm)	22595.9771
6/13/2024 11:07:30	R2404867-003	Mn (257.610 nm)	0.55	0.7963 (ppm)	170106.9466
6/13/2024 11:07:30	R2404867-003	Mo (202.032 nm)	1.20	0.0245 (ppm)	107.4474
6/13/2024 11:07:30	R2404867-003	Na (588.995 nm)	0.35	2.1817 (ppm)	40345.0638
6/13/2024 11:07:30	R2404867-003	Ni (230.299 nm)	3.24	0.0390 (ppm)	361.2335
6/13/2024 11:07:30	R2404867-003	Pb (220.353 nm)	2.69	0.0707 (ppm)	166.5468
6/13/2024 11:07:30	R2404867-003	Sb (217.582 nm)	5.42	0.0243 (ppm)	18.0035
6/13/2024 11:07:30	R2404867-003	Se (196.026 nm)	16.54	0.0133 (ppm)	10.8806
6/13/2024 11:07:30	R2404867-003	Sn (189.925 nm)	3.12	0.1299 (ppm)	122.6013
6/13/2024 11:07:30	R2404867-003	Sr (216.596 nm)	0.55	0.1328 (ppm)	1222.4035
6/13/2024 11:07:30	R2404867-003	Ti (336.122 nm)	0.77	0.2250 (ppm)	31530.9471
6/13/2024 11:07:30	R2404867-003	Tl (190.794 nm)	63.76	-0.0051 u (ppm)	-2.7631
6/13/2024 11:07:30	R2404867-003	V (292.401 nm)	0.70	0.0159 (ppm)	410.4625
6/13/2024 11:07:30	R2404867-003	Y (360.074 nm)	0.23	1.00 (Ratio)	463749.27
6/13/2024 11:07:30	R2404867-003	Y_R (360.074 nm)	0.24	1.00 (Ratio)	464795.32
6/13/2024 11:07:30	R2404867-003	Zn (213.857 nm)	1.09	2.7731 o (ppm)	84170.8175
6/13/2024 11:10:44	R2404867-004	Ag (328.068 nm)	1.09	0.0134 (ppm)	575.3842
6/13/2024 11:10:44	R2404867-004	Al (237.312 nm)	0.52	23.3923 o (ppm)	29687.5410
6/13/2024 11:10:44	R2404867-004	As (188.980 nm)	11.33	0.0188 (ppm)	20.3285
6/13/2024 11:10:44	R2404867-004	B (249.772 nm)	0.55	0.2181 (ppm)	7396.3194
6/13/2024 11:10:44	R2404867-004	Ba (230.424 nm)	0.93	2.5336 (ppm)	67850.5459
6/13/2024 11:10:44	R2404867-004	Be (313.107 nm)	1.31	0.0008 (ppm)	694.4377
6/13/2024 11:10:44	R2404867-004	Ca (317.933 nm)	0.79	167.6246 o (ppm)	6234559.1497
6/13/2024 11:10:44	R2404867-004	Cd (214.439 nm)	1.63	0.0111 (ppm)	289.2638
6/13/2024 11:10:44	R2404867-004	Co (230.786 nm)	3.23	0.0210 (ppm)	192.8135
6/13/2024 11:10:44	R2404867-004	Cr (267.716 nm)	0.65	0.1601 (ppm)	4655.9588
6/13/2024 11:10:44	R2404867-004	Cu (327.395 nm)	0.65	3.8481 o (ppm) LR	135098.0117
6/13/2024 11:10:44	R2404867-004	Fe (234.350 nm)	0.63	48.2266 o (ppm)	333451.2890
6/13/2024 11:10:44	R2404867-004	K (766.491 nm)	0.33	29.4219 (ppm)	66584.3814
6/13/2024 11:10:44	R2404867-004	Mg (279.078 nm)	0.57	26.5646 (ppm)	65379.6483
6/13/2024 11:10:44	R2404867-004	Mn (257.610 nm)	0.51	1.7571 o (ppm)	375315.0084
6/13/2024 11:10:44	R2404867-004	Mo (202.032 nm)	0.95	0.0835 (ppm)	363.1747
6/13/2024 11:10:44	R2404867-004	Na (588.995 nm)	0.51	7.3572 (ppm)	193216.5506

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/13/2024 11:10:44	R2404867-004	Ni (230.299 nm)	1.68	0.0893 (ppm)	799.5868
6/13/2024 11:10:44	R2404867-004	Pb (220.353 nm)	1.56	0.1661 (ppm)	388.0249
6/13/2024 11:10:44	R2404867-004	Sb (217.582 nm)	55.61	0.0172 (ppm)	12.0803
6/13/2024 11:10:44	R2404867-004	Se (196.026 nm)	4.54	0.0316 (ppm)	23.3909
6/13/2024 11:10:44	R2404867-004	Sn (189.925 nm)	0.62	0.2777 (ppm)	259.2123
6/13/2024 11:10:44	R2404867-004	Sr (216.596 nm)	0.64	0.3492 (ppm)	3187.0135
6/13/2024 11:10:44	R2404867-004	Ti (336.122 nm)	0.53	0.3323 (ppm)	46649.4673
6/13/2024 11:10:44	R2404867-004	Tl (190.794 nm)	> 100.00	-0.0008 u (ppm)	-0.6412
6/13/2024 11:10:44	R2404867-004	V (292.401 nm)	0.33	0.0368 (ppm)	907.7896
6/13/2024 11:10:44	R2404867-004	Y (360.074 nm)	0.16	0.99 (Ratio)	458279.65
6/13/2024 11:10:44	R2404867-004	Y_R (360.074 nm)	0.16	0.99 (Ratio)	459296.67
6/13/2024 11:10:44	R2404867-004	Zn (213.857 nm)	0.86	6.5162 o (ppm) LR	197781.2428
6/13/2024 11:13:57	R2404920-001	Ag (328.068 nm)	3.88	0.0147 (ppm)	643.4296
6/13/2024 11:13:57	R2404920-001	Al (237.312 nm)	0.54	37.7480 o (ppm)	47861.2416
6/13/2024 11:13:57	R2404920-001	As (188.980 nm)	10.80	0.0176 (ppm)	19.1351
6/13/2024 11:13:57	R2404920-001	B (249.772 nm)	0.30	0.1728 (ppm)	5875.7917
6/13/2024 11:13:57	R2404920-001	Ba (230.424 nm)	0.96	3.6349 (ppm)	97343.7223
6/13/2024 11:13:57	R2404920-001	Be (313.107 nm)	1.63	0.0010 (ppm)	945.3119
6/13/2024 11:13:57	R2404920-001	Ca (317.933 nm)	0.51	109.4009 o (ppm)	4069769.4000
6/13/2024 11:13:57	R2404920-001	Cd (214.439 nm)	2.58	0.0090 (ppm)	236.2673
6/13/2024 11:13:57	R2404920-001	Co (230.786 nm)	2.65	0.0132 (ppm)	115.6605
6/13/2024 11:13:57	R2404920-001	Cr (267.716 nm)	0.32	0.1813 (ppm)	5265.8771
6/13/2024 11:13:57	R2404920-001	Cu (327.395 nm)	0.76	3.9906 o (ppm) LR	140102.9808
6/13/2024 11:13:57	R2404920-001	Fe (234.350 nm)	0.57	67.8653 o (ppm)	469219.8525
6/13/2024 11:13:57	R2404920-001	K (766.491 nm)	0.29	6.1003 (ppm)	13779.6346
6/13/2024 11:13:57	R2404920-001	Mg (279.078 nm)	0.46	12.9500 (ppm)	31877.2265
6/13/2024 11:13:57	R2404920-001	Mn (257.610 nm)	0.47	1.1590 (ppm)	247574.7303
6/13/2024 11:13:57	R2404920-001	Mo (202.032 nm)	1.23	0.0565 (ppm)	246.0300
6/13/2024 11:13:57	R2404920-001	Na (588.995 nm)	0.22	2.6830 (ppm)	55152.1096
6/13/2024 11:13:57	R2404920-001	Ni (230.299 nm)	1.30	0.0798 (ppm)	716.2874
6/13/2024 11:13:57	R2404920-001	Pb (220.353 nm)	1.18	0.2752 (ppm)	641.1721
6/13/2024 11:13:57	R2404920-001	Sb (217.582 nm)	42.08	0.0268 (ppm)	20.0183
6/13/2024 11:13:57	R2404920-001	Se (196.026 nm)	6.81	0.0452 (ppm)	32.7055
6/13/2024 11:13:57	R2404920-001	Sn (189.925 nm)	1.84	0.3863 (ppm)	359.6682
6/13/2024 11:13:57	R2404920-001	Sr (216.596 nm)	1.59	0.2836 (ppm)	2591.9414
6/13/2024 11:13:57	R2404920-001	Ti (336.122 nm)	0.82	0.2685 (ppm)	37654.8222
6/13/2024 11:13:57	R2404920-001	Tl (190.794 nm)	> 100.00	-0.0017 u (ppm)	-1.1066
6/13/2024 11:13:57	R2404920-001	V (292.401 nm)	1.17	0.0387 (ppm)	953.8110
6/13/2024 11:13:57	R2404920-001	Y (360.074 nm)	0.02	1.00 (Ratio)	463669.56
6/13/2024 11:13:57	R2404920-001	Y_R (360.074 nm)	0.03	1.00 (Ratio)	464640.10
6/13/2024 11:13:57	R2404920-001	Zn (213.857 nm)	1.49	6.3733 o (ppm) LR	193443.8072
6/13/2024 11:17:10	R2404980-001	Ag (328.068 nm)	6.08	0.0014 (ppm)	-15.9058
6/13/2024 11:17:10	R2404980-001	Al (237.312 nm)	0.47	88.5835 o (ppm)	112216.7153
6/13/2024 11:17:10	R2404980-001	As (188.980 nm)	4.78	0.0382 (ppm)	39.0134
6/13/2024 11:17:10	R2404980-001	B (249.772 nm)	0.27	0.1534 (ppm)	5225.6455
6/13/2024 11:17:10	R2404980-001	Ba (230.424 nm)	0.38	1.0775 (ppm)	28856.8918
6/13/2024 11:17:10	R2404980-001	Be (313.107 nm)	0.86	0.0042 (ppm)	5379.8969
6/13/2024 11:17:10	R2404980-001	Ca (317.933 nm)	0.36	128.0225 o (ppm)	4762129.4748
6/13/2024 11:17:10	R2404980-001	Cd (214.439 nm)	5.88	0.0027 (ppm)	76.5307
6/13/2024 11:17:10	R2404980-001	Co (230.786 nm)	0.77	0.0453 (ppm)	431.2182
6/13/2024 11:17:10	R2404980-001	Cr (267.716 nm)	0.28	0.2204 (ppm)	6386.6399

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/13/2024 11:17:10	R2404980-001	Cu (327.395 nm)	0.25	0.5761 (ppm)	20226.7247
6/13/2024 11:17:10	R2404980-001	Fe (234.350 nm)	0.31	135.4670 o (ppm)	936572.7268
6/13/2024 11:17:10	R2404980-001	K (766.491 nm)	0.12	8.8933 (ppm)	20103.6039
6/13/2024 11:17:10	R2404980-001	Mg (279.078 nm)	0.20	28.2334 (ppm)	69486.1748
6/13/2024 11:17:10	R2404980-001	Mn (257.610 nm)	0.08	2.5040 o (ppm)	534868.8457
6/13/2024 11:17:10	R2404980-001	Mo (202.032 nm)	8.76	0.0054 (ppm)	24.3536
6/13/2024 11:17:10	R2404980-001	Na (588.995 nm)	1.47	1.5926 (ppm)	22943.9283
6/13/2024 11:17:10	R2404980-001	Ni (230.299 nm)	2.17	0.1043 (ppm)	929.7367
6/13/2024 11:17:10	R2404980-001	Pb (220.353 nm)	0.26	2.1337 o (ppm)	4956.0690
6/13/2024 11:17:10	R2404980-001	Sb (217.582 nm)	> 100.00	-0.0006 u (ppm)	-2.7972
6/13/2024 11:17:10	R2404980-001	Se (196.026 nm)	21.88	0.0064 (ppm)	6.1262
6/13/2024 11:17:10	R2404980-001	Sn (189.925 nm)	13.63	0.0316 (ppm)	31.6864
6/13/2024 11:17:10	R2404980-001	Sr (216.596 nm)	0.26	0.4854 (ppm)	4424.2376
6/13/2024 11:17:10	R2404980-001	Ti (336.122 nm)	0.46	2.6368 (ppm)	371342.4005
6/13/2024 11:17:10	R2404980-001	Tl (190.794 nm)	36.09	0.0069 (ppm)	3.1729
6/13/2024 11:17:10	R2404980-001	V (292.401 nm)	0.52	0.2318 (ppm)	5550.6671
6/13/2024 11:17:10	R2404980-001	Y (360.074 nm)	0.08	1.01 (Ratio)	467952.85
6/13/2024 11:17:10	R2404980-001	Y_R (360.074 nm)	0.09	1.01 (Ratio)	468915.76
6/13/2024 11:17:10	R2404980-001	Zn (213.857 nm)	0.53	1.3965 (ppm)	42389.7992
6/13/2024 11:20:23	R2404980-002	Ag (328.068 nm)	4.71	0.0013 (ppm)	-18.9879
6/13/2024 11:20:23	R2404980-002	Al (237.312 nm)	0.50	78.9910 o (ppm)	100073.1061
6/13/2024 11:20:23	R2404980-002	As (188.980 nm)	9.46	0.0396 (ppm)	40.4282
6/13/2024 11:20:23	R2404980-002	B (249.772 nm)	0.57	0.1795 (ppm)	6101.6245
6/13/2024 11:20:23	R2404980-002	Ba (230.424 nm)	1.42	0.9791 (ppm)	26223.3349
6/13/2024 11:20:23	R2404980-002	Be (313.107 nm)	0.45	0.0040 (ppm)	5146.5159
6/13/2024 11:20:23	R2404980-002	Ca (317.933 nm)	0.53	156.5267 o (ppm)	5821930.3866
6/13/2024 11:20:23	R2404980-002	Cd (214.439 nm)	11.77	0.0033 (ppm)	89.4738
6/13/2024 11:20:23	R2404980-002	Co (230.786 nm)	0.86	0.0594 (ppm)	569.8415
6/13/2024 11:20:23	R2404980-002	Cr (267.716 nm)	0.28	0.1442 (ppm)	4200.3931
6/13/2024 11:20:23	R2404980-002	Cu (327.395 nm)	0.53	0.4805 (ppm)	16870.6285
6/13/2024 11:20:23	R2404980-002	Fe (234.350 nm)	0.53	156.9628 o (ppm)	1085180.0945
6/13/2024 11:20:23	R2404980-002	K (766.491 nm)	0.32	10.6203 (ppm)	24013.8758
6/13/2024 11:20:23	R2404980-002	Mg (279.078 nm)	0.37	59.4555 o (ppm)	146316.6724
6/13/2024 11:20:23	R2404980-002	Mn (257.610 nm)	0.54	3.8773 o (ppm)	828209.1745
6/13/2024 11:20:23	R2404980-002	Mo (202.032 nm)	28.93	0.0050 (ppm)	22.7097
6/13/2024 11:20:23	R2404980-002	Na (588.995 nm)	1.09	1.6800 (ppm)	25524.7406
6/13/2024 11:20:23	R2404980-002	Ni (230.299 nm)	1.73	0.1482 (ppm)	1312.1574
6/13/2024 11:20:23	R2404980-002	Pb (220.353 nm)	0.84	1.3041 o (ppm)	3030.0197
6/13/2024 11:20:23	R2404980-002	Sb (217.582 nm)	> 100.00	0.0016 u (ppm)	-0.9997
6/13/2024 11:20:23	R2404980-002	Se (196.026 nm)	> 100.00	0.0069 u (ppm)	6.4928
6/13/2024 11:20:23	R2404980-002	Sn (189.925 nm)	0.21	0.1917 (ppm)	179.7558
6/13/2024 11:20:23	R2404980-002	Sr (216.596 nm)	0.76	0.4820 (ppm)	4392.7132
6/13/2024 11:20:23	R2404980-002	Ti (336.122 nm)	0.67	2.2577 (ppm)	317936.6414
6/13/2024 11:20:23	R2404980-002	Tl (190.794 nm)	52.50	0.0055 (ppm)	2.4930
6/13/2024 11:20:23	R2404980-002	V (292.401 nm)	0.73	0.2125 (ppm)	5091.9257
6/13/2024 11:20:23	R2404980-002	Y (360.074 nm)	0.13	1.01 (Ratio)	466923.01
6/13/2024 11:20:23	R2404980-002	Y_R (360.074 nm)	0.12	1.01 (Ratio)	467833.92
6/13/2024 11:20:23	R2404980-002	Zn (213.857 nm)	1.18	2.3410 o (ppm)	71055.6958
6/13/2024 11:23:37	R2404980-003	Ag (328.068 nm)	1.50	0.0162 (ppm)	714.2588
6/13/2024 11:23:37	R2404980-003	Al (237.312 nm)	0.55	70.3686 o (ppm)	89157.4887
6/13/2024 11:23:37	R2404980-003	As (188.980 nm)	1.39	0.0424 (ppm)	43.1430

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/13/2024 11:23:37	R2404980-003	B (249.772 nm)	0.56	0.2239 (ppm)	7591.0060
6/13/2024 11:23:37	R2404980-003	Ba (230.424 nm)	0.47	1.2674 (ppm)	33944.0546
6/13/2024 11:23:37	R2404980-003	Be (313.107 nm)	0.62	0.0037 (ppm)	4710.7851
6/13/2024 11:23:37	R2404980-003	Ca (317.933 nm)	0.53	159.5454 o (ppm)	5934170.0273
6/13/2024 11:23:37	R2404980-003	Cd (214.439 nm)	8.43	0.0036 (ppm)	98.6495
6/13/2024 11:23:37	R2404980-003	Co (230.786 nm)	1.30	0.0453 (ppm)	431.3964
6/13/2024 11:23:37	R2404980-003	Cr (267.716 nm)	0.53	0.1317 (ppm)	3843.4607
6/13/2024 11:23:37	R2404980-003	Cu (327.395 nm)	0.72	1.4828 (ppm)	52061.3432
6/13/2024 11:23:37	R2404980-003	Fe (234.350 nm)	0.59	124.0643 o (ppm)	857741.9748
6/13/2024 11:23:37	R2404980-003	K (766.491 nm)	0.40	9.1747 (ppm)	20740.5701
6/13/2024 11:23:37	R2404980-003	Mg (279.078 nm)	0.50	33.5990 (ppm)	82689.5531
6/13/2024 11:23:37	R2404980-003	Mn (257.610 nm)	0.35	2.7566 o (ppm)	588813.1706
6/13/2024 11:23:37	R2404980-003	Mo (202.032 nm)	9.39	0.0038 (ppm)	17.3706
6/13/2024 11:23:37	R2404980-003	Na (588.995 nm)	1.39	2.1329 (ppm)	38902.6730
6/13/2024 11:23:37	R2404980-003	Ni (230.299 nm)	0.47	0.1058 (ppm)	942.5795
6/13/2024 11:23:37	R2404980-003	Pb (220.353 nm)	0.44	1.7544 o (ppm)	4075.4046
6/13/2024 11:23:37	R2404980-003	Sb (217.582 nm)	> 100.00	0.0027 u (ppm)	-0.0071
6/13/2024 11:23:37	R2404980-003	Se (196.026 nm)	60.20	0.0077 (ppm)	7.0192
6/13/2024 11:23:37	R2404980-003	Sn (189.925 nm)	3.83	0.0840 (ppm)	80.1891
6/13/2024 11:23:37	R2404980-003	Sr (216.596 nm)	0.38	0.6492 (ppm)	5911.3557
6/13/2024 11:23:37	R2404980-003	Ti (336.122 nm)	0.64	2.3314 (ppm)	328322.4442
6/13/2024 11:23:37	R2404980-003	Tl (190.794 nm)	43.23	0.0044 (ppm)	1.9247
6/13/2024 11:23:37	R2404980-003	V (292.401 nm)	0.41	0.2001 (ppm)	4796.2156
6/13/2024 11:23:37	R2404980-003	Y (360.074 nm)	0.14	1.01 (Ratio)	466477.09
6/13/2024 11:23:37	R2404980-003	Y_R (360.074 nm)	0.14	1.01 (Ratio)	467296.67
6/13/2024 11:23:37	R2404980-003	Zn (213.857 nm)	0.98	3.2635 o (ppm)	99055.0318
6/13/2024 11:26:50	R2404980-004	Ag (328.068 nm)	28.21	0.0011 (ppm)	-31.6568
6/13/2024 11:26:50	R2404980-004	Al (237.312 nm)	0.07	75.7090 o (ppm)	95918.1911
6/13/2024 11:26:50	R2404980-004	As (188.980 nm)	8.30	0.0592 (ppm)	59.3523
6/13/2024 11:26:50	R2404980-004	B (249.772 nm)	0.29	0.1693 (ppm)	5758.6665
6/13/2024 11:26:50	R2404980-004	Ba (230.424 nm)	0.73	1.3459 (ppm)	36045.0785
6/13/2024 11:26:50	R2404980-004	Be (313.107 nm)	0.14	0.0041 (ppm)	5216.8857
6/13/2024 11:26:50	R2404980-004	Ca (317.933 nm)	0.32	126.2015 o (ppm)	4694424.8640
6/13/2024 11:26:50	R2404980-004	Cd (214.439 nm)	3.78	0.0048 (ppm)	127.5656
6/13/2024 11:26:50	R2404980-004	Co (230.786 nm)	3.56	0.0518 (ppm)	495.2052
6/13/2024 11:26:50	R2404980-004	Cr (267.716 nm)	0.12	0.1493 (ppm)	4347.3080
6/13/2024 11:26:50	R2404980-004	Cu (327.395 nm)	0.16	0.5826 (ppm)	20456.2221
6/13/2024 11:26:50	R2404980-004	Fe (234.350 nm)	0.11	143.4337 o (ppm)	991649.3407
6/13/2024 11:26:50	R2404980-004	K (766.491 nm)	0.12	9.2612 (ppm)	20936.6375
6/13/2024 11:26:50	R2404980-004	Mg (279.078 nm)	0.06	36.1059 (ppm)	88858.5352
6/13/2024 11:26:50	R2404980-004	Mn (257.610 nm)	0.28	2.9728 o (ppm)	635002.4753
6/13/2024 11:26:50	R2404980-004	Mo (202.032 nm)	23.19	0.0050 (ppm)	22.7023
6/13/2024 11:26:50	R2404980-004	Na (588.995 nm)	1.07	1.5121 (ppm)	20566.3378
6/13/2024 11:26:50	R2404980-004	Ni (230.299 nm)	0.66	0.1133 (ppm)	1007.9134
6/13/2024 11:26:50	R2404980-004	Pb (220.353 nm)	0.23	2.7447 o (ppm)	6374.3794
6/13/2024 11:26:50	R2404980-004	Sb (217.582 nm)	51.31	-0.0047 u (ppm)	-6.2231
6/13/2024 11:26:50	R2404980-004	Se (196.026 nm)	> 100.00	0.0020 u (ppm)	3.1481
6/13/2024 11:26:50	R2404980-004	Sn (189.925 nm)	1.09	0.2235 (ppm)	209.1602
6/13/2024 11:26:50	R2404980-004	Sr (216.596 nm)	0.20	0.5498 (ppm)	5009.0815
6/13/2024 11:26:50	R2404980-004	Ti (336.122 nm)	0.26	2.8869 (ppm)	406585.9531
6/13/2024 11:26:50	R2404980-004	Tl (190.794 nm)	> 100.00	-0.0038 u (ppm)	-2.1234

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/13/2024 11:26:50	R2404980-004	V (292.401 nm)	0.13	0.2563 (ppm)	6134.3428
6/13/2024 11:26:50	R2404980-004	Y (360.074 nm)	0.21	1.01 (Ratio)	466925.07
6/13/2024 11:26:50	R2404980-004	Y_R (360.074 nm)	0.20	1.01 (Ratio)	467624.92
6/13/2024 11:26:50	R2404980-004	Zn (213.857 nm)	2.19	3.6357 o (ppm)	110352.7393
6/13/2024 11:30:04	Continuing Calibration Verification1	Ag (328.068 nm)	0.41	0.5170 (ppm)	25453.8467
6/13/2024 11:30:04	Continuing Calibration Verification1	Al (237.312 nm)	0.44	10.3130 (ppm)	13129.7151
6/13/2024 11:30:04	Continuing Calibration Verification1	As (188.980 nm)	1.56	0.9914 (ppm)	959.6096
6/13/2024 11:30:04	Continuing Calibration Verification1	B (249.772 nm)	0.67	2.5565 (ppm)	85784.8905
6/13/2024 11:30:04	Continuing Calibration Verification1	Ba (230.424 nm)	0.91	10.1605 (ppm)	272089.4502
6/13/2024 11:30:04	Continuing Calibration Verification1	Be (313.107 nm)	0.37	0.2531 (ppm)	344963.2468
6/13/2024 11:30:04	Continuing Calibration Verification1	Ca (317.933 nm)	0.36	25.7867 (ppm)	960944.6364
6/13/2024 11:30:04	Continuing Calibration Verification1	Cd (214.439 nm)	0.42	0.5006 (ppm)	12715.4763
6/13/2024 11:30:04	Continuing Calibration Verification1	Co (230.786 nm)	0.42	2.5123 (ppm)	24679.9233
6/13/2024 11:30:04	Continuing Calibration Verification1	Cr (267.716 nm)	0.49	0.5122 (ppm)	14751.8215
6/13/2024 11:30:04	Continuing Calibration Verification1	Cu (327.395 nm)	0.47	1.3169 (ppm)	46236.3233
6/13/2024 11:30:04	Continuing Calibration Verification1	Fe (234.350 nm)	0.13	5.0526 (ppm)	34974.9857
6/13/2024 11:30:04	Continuing Calibration Verification1	K (766.491 nm)	0.37	25.8374 (ppm)	58468.3836
6/13/2024 11:30:04	Continuing Calibration Verification1	Mg (279.078 nm)	0.49	25.3510 (ppm)	62393.1109
6/13/2024 11:30:04	Continuing Calibration Verification1	Mn (257.610 nm)	0.40	0.7363 (ppm)	157280.1568
6/13/2024 11:30:04	Continuing Calibration Verification1	Mo (202.032 nm)	1.47	2.5871 (ppm)	11229.0854
6/13/2024 11:30:04	Continuing Calibration Verification1	Na (588.995 nm)	0.39	25.8974 (ppm)	740852.3395
6/13/2024 11:30:04	Continuing Calibration Verification1	Ni (230.299 nm)	0.40	2.0677 (ppm)	18014.6200
6/13/2024 11:30:04	Continuing Calibration Verification1	Pb (220.353 nm)	0.53	0.5000 (ppm)	1163.0836
6/13/2024 11:30:04	Continuing Calibration Verification1	Sb (217.582 nm)	0.57	4.9650 (ppm)	4138.8980
6/13/2024 11:30:04	Continuing Calibration Verification1	Se (196.026 nm)	1.05	0.4928 (ppm)	338.9325
6/13/2024 11:30:04	Continuing Calibration Verification1	Sn (189.925 nm)	0.40	5.0966 (ppm)	4714.4684
6/13/2024 11:30:04	Continuing Calibration Verification1	Sr (216.596 nm)	1.09	2.4681 (ppm)	22424.9820
6/13/2024 11:30:04	Continuing Calibration Verification1	Ti (336.122 nm)	0.59	2.6372 (ppm)	371396.8383
6/13/2024 11:30:04	Continuing Calibration Verification1	Tl (190.794 nm)	0.55	0.9963 (ppm)	494.6205
6/13/2024 11:30:04	Continuing Calibration Verification1	V (292.401 nm)	0.45	2.6131 (ppm)	62257.4844
6/13/2024 11:30:04	Continuing Calibration Verification1	Y (360.074 nm)	0.29	0.99 (Ratio)	455876.33
6/13/2024 11:30:04	Continuing Calibration Verification1	Y_R (360.074 nm)	0.29	0.98 (Ratio)	456458.25
6/13/2024 11:30:04	Continuing Calibration Verification1	Zn (213.857 nm)	0.38	0.9905 (ppm)	30066.0732
6/13/2024 11:33:17	Continuing Calibration Blank1	Ag (328.068 nm)	> 100.00	0.0000 u (ppm)	-84.8131
6/13/2024 11:33:17	Continuing Calibration Blank1	Al (237.312 nm)	> 100.00	0.0012 u (ppm)	75.3356
6/13/2024 11:33:17	Continuing Calibration Blank1	As (188.980 nm)	> 100.00	0.0039 u (ppm)	5.9001
6/13/2024 11:33:17	Continuing Calibration Blank1	B (249.772 nm)	11.71	-0.0003 u (ppm)	73.4556
6/13/2024 11:33:17	Continuing Calibration Blank1	Ba (230.424 nm)	> 100.00	0.0000 u (ppm)	4.2929
6/13/2024 11:33:17	Continuing Calibration Blank1	Be (313.107 nm)	> 100.00	0.0000 u (ppm)	-338.9662
6/13/2024 11:33:17	Continuing Calibration Blank1	Ca (317.933 nm)	> 100.00	-0.0005 u (ppm)	2165.7363
6/13/2024 11:33:17	Continuing Calibration Blank1	Cd (214.439 nm)	> 100.00	0.0000 u (ppm)	7.0415
6/13/2024 11:33:17	Continuing Calibration Blank1	Co (230.786 nm)	> 100.00	0.0001 u (ppm)	-12.5548
6/13/2024 11:33:17	Continuing Calibration Blank1	Cr (267.716 nm)	> 100.00	-0.0002 u (ppm)	61.0147
6/13/2024 11:33:17	Continuing Calibration Blank1	Cu (327.395 nm)	> 100.00	-0.0001 u (ppm)	0.3699
6/13/2024 11:33:17	Continuing Calibration Blank1	Fe (234.350 nm)	4.36	0.0114 (ppm)	124.0942
6/13/2024 11:33:17	Continuing Calibration Blank1	K (766.491 nm)	13.68	0.0251 (ppm)	24.1402
6/13/2024 11:33:17	Continuing Calibration Blank1	Mg (279.078 nm)	72.11	-0.0025 u (ppm)	4.1489
6/13/2024 11:33:17	Continuing Calibration Blank1	Mn (257.610 nm)	49.86	0.0001 (ppm)	17.9645
6/13/2024 11:33:17	Continuing Calibration Blank1	Mo (202.032 nm)	12.94	0.0154 (ppm)	67.6763
6/13/2024 11:33:17	Continuing Calibration Blank1	Na (588.995 nm)	> 100.00	0.0006 u (ppm)	-24081.6909
6/13/2024 11:33:17	Continuing Calibration Blank1	Ni (230.299 nm)	> 100.00	-0.0001 u (ppm)	21.6802

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/13/2024 11:33:17	Continuing Calibration Blank1	Pb (220.353 nm)	> 100.00	0.0024 u (ppm)	7.8807
6/13/2024 11:33:17	Continuing Calibration Blank1	Sb (217.582 nm)	14.54	0.0345 (ppm)	26.5023
6/13/2024 11:33:17	Continuing Calibration Blank1	Se (196.026 nm)	> 100.00	0.0015 u (ppm)	2.8036
6/13/2024 11:33:17	Continuing Calibration Blank1	Sn (189.925 nm)	> 100.00	-0.0002 u (ppm)	2.2534
6/13/2024 11:33:17	Continuing Calibration Blank1	Sr (216.596 nm)	> 100.00	-0.0002 u (ppm)	15.4257
6/13/2024 11:33:17	Continuing Calibration Blank1	Ti (336.122 nm)	14.84	0.0088 (ppm)	1062.2324
6/13/2024 11:33:17	Continuing Calibration Blank1	Tl (190.794 nm)	> 100.00	-0.0001 u (ppm)	-0.2967
6/13/2024 11:33:17	Continuing Calibration Blank1	V (292.401 nm)	> 100.00	0.0002 u (ppm)	36.7532
6/13/2024 11:33:17	Continuing Calibration Blank1	Y (360.074 nm)	0.67	1.03 (Ratio)	474381.85
6/13/2024 11:33:17	Continuing Calibration Blank1	Y_R (360.074 nm)	0.68	1.02 (Ratio)	474949.26
6/13/2024 11:33:17	Continuing Calibration Blank1	Zn (213.857 nm)	> 100.00	0.0001 u (ppm)	4.1765
6/13/2024 11:36:31	R2404980-005	Ag (328.068 nm)	28.01	0.0014 (ppm)	-14.1905
6/13/2024 11:36:31	R2404980-005	Al (237.312 nm)	0.57	94.0949 o (ppm)	119194.0149
6/13/2024 11:36:31	R2404980-005	As (188.980 nm)	3.21	0.0377 (ppm)	38.5339
6/13/2024 11:36:31	R2404980-005	B (249.772 nm)	0.71	0.1791 (ppm)	6086.7803
6/13/2024 11:36:31	R2404980-005	Ba (230.424 nm)	0.89	0.7820 (ppm)	20945.8492
6/13/2024 11:36:31	R2404980-005	Be (313.107 nm)	0.59	0.0041 (ppm)	5264.6886
6/13/2024 11:36:31	R2404980-005	Ca (317.933 nm)	0.52	223.2240 o (ppm)	8301771.9349
6/13/2024 11:36:31	R2404980-005	Cd (214.439 nm)	9.21	0.0024 (ppm)	66.3982
6/13/2024 11:36:31	R2404980-005	Co (230.786 nm)	4.88	0.0402 (ppm)	381.3799
6/13/2024 11:36:31	R2404980-005	Cr (267.716 nm)	0.17	0.1364 (ppm)	3975.8848
6/13/2024 11:36:31	R2404980-005	Cu (327.395 nm)	0.50	0.4178 (ppm)	14668.7523
6/13/2024 11:36:31	R2404980-005	Fe (234.350 nm)	0.70	125.5447 o (ppm)	867976.6937
6/13/2024 11:36:31	R2404980-005	K (766.491 nm)	0.27	7.7697 (ppm)	17559.5249
6/13/2024 11:36:31	R2404980-005	Mg (279.078 nm)	0.35	33.2190 (ppm)	81754.5852
6/13/2024 11:36:31	R2404980-005	Mn (257.610 nm)	0.50	2.1581 o (ppm)	460982.9447
6/13/2024 11:36:31	R2404980-005	Mo (202.032 nm)	9.92	0.0088 (ppm)	39.3748
6/13/2024 11:36:31	R2404980-005	Na (588.995 nm)	0.27	1.6195 (ppm)	23738.0748
6/13/2024 11:36:31	R2404980-005	Ni (230.299 nm)	0.38	0.1032 (ppm)	919.7299
6/13/2024 11:36:31	R2404980-005	Pb (220.353 nm)	0.53	2.7573 o (ppm)	6403.7187
6/13/2024 11:36:31	R2404980-005	Sb (217.582 nm)	16.65	0.0174 (ppm)	12.2464
6/13/2024 11:36:31	R2404980-005	Se (196.026 nm)	> 100.00	0.0036 u (ppm)	4.2448
6/13/2024 11:36:31	R2404980-005	Sn (189.925 nm)	1.66	0.2098 (ppm)	196.4090
6/13/2024 11:36:31	R2404980-005	Sr (216.596 nm)	0.45	0.6345 (ppm)	5778.0143
6/13/2024 11:36:31	R2404980-005	Ti (336.122 nm)	0.56	2.3324 (ppm)	328453.6445
6/13/2024 11:36:31	R2404980-005	Tl (190.794 nm)	> 100.00	0.0017 u (ppm)	0.5974
6/13/2024 11:36:31	R2404980-005	V (292.401 nm)	0.64	0.2040 (ppm)	4888.4442
6/13/2024 11:36:31	R2404980-005	Y (360.074 nm)	0.20	1.00 (Ratio)	463806.00
6/13/2024 11:36:31	R2404980-005	Y_R (360.074 nm)	0.19	1.00 (Ratio)	464282.41
6/13/2024 11:36:31	R2404980-005	Zn (213.857 nm)	1.07	1.2891 (ppm)	39128.4452
6/13/2024 11:39:45	R2404980-006	Ag (328.068 nm)	25.61	0.0011 (ppm)	-28.4585
6/13/2024 11:39:45	R2404980-006	Al (237.312 nm)	0.51	62.6764 o (ppm)	79419.4688
6/13/2024 11:39:45	R2404980-006	As (188.980 nm)	35.42	0.0103 (ppm)	12.0681
6/13/2024 11:39:45	R2404980-006	B (249.772 nm)	0.67	0.0915 (ppm)	3152.2293
6/13/2024 11:39:45	R2404980-006	Ba (230.424 nm)	0.84	0.4101 (ppm)	10985.7592
6/13/2024 11:39:45	R2404980-006	Be (313.107 nm)	0.72	0.0035 (ppm)	4370.8193
6/13/2024 11:39:45	R2404980-006	Ca (317.933 nm)	0.64	44.1662 (ppm)	1644305.1821
6/13/2024 11:39:45	R2404980-006	Cd (214.439 nm)	3.99	0.0016 (ppm)	48.3645
6/13/2024 11:39:45	R2404980-006	Co (230.786 nm)	2.24	0.0219 (ppm)	201.9836
6/13/2024 11:39:45	R2404980-006	Cr (267.716 nm)	0.65	0.0875 (ppm)	2575.3482
6/13/2024 11:39:45	R2404980-006	Cu (327.395 nm)	0.41	0.0663 (ppm)	2331.4392

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/13/2024 11:39:45	R2404980-006	Fe (234.350 nm)	0.70	73.1229 o (ppm)	505567.3639
6/13/2024 11:39:45	R2404980-006	K (766.491 nm)	0.99	5.1199 (ppm)	11559.7652
6/13/2024 11:39:45	R2404980-006	Mg (279.078 nm)	0.44	14.6329 (ppm)	36018.5046
6/13/2024 11:39:45	R2404980-006	Mn (257.610 nm)	0.48	0.6942 (ppm)	148284.2957
6/13/2024 11:39:45	R2404980-006	Mo (202.032 nm)	37.21	0.0030 (ppm)	14.1994
6/13/2024 11:39:45	R2404980-006	Na (588.995 nm)	0.39	2.3809 (ppm)	46226.8944
6/13/2024 11:39:45	R2404980-006	Ni (230.299 nm)	2.21	0.0798 (ppm)	716.5629
6/13/2024 11:39:45	R2404980-006	Pb (220.353 nm)	1.89	0.1473 (ppm)	344.3094
6/13/2024 11:39:45	R2404980-006	Sb (217.582 nm)	66.28	0.0061 (ppm)	2.8306
6/13/2024 11:39:45	R2404980-006	Se (196.026 nm)	86.75	0.0066 (ppm)	6.2700
6/13/2024 11:39:45	R2404980-006	Sn (189.925 nm)	22.98	0.0123 (ppm)	13.8690
6/13/2024 11:39:45	R2404980-006	Sr (216.596 nm)	0.32	0.1627 (ppm)	1493.7316
6/13/2024 11:39:45	R2404980-006	Ti (336.122 nm)	0.38	0.3903 (ppm)	54813.3355
6/13/2024 11:39:45	R2404980-006	Tl (190.794 nm)	> 100.00	-0.0004 u (ppm)	-0.4237
6/13/2024 11:39:45	R2404980-006	V (292.401 nm)	0.43	0.1273 (ppm)	3062.9269
6/13/2024 11:39:45	R2404980-006	Y (360.074 nm)	0.11	1.05 (Ratio)	487479.07
6/13/2024 11:39:45	R2404980-006	Y_R (360.074 nm)	0.12	1.05 (Ratio)	487804.81
6/13/2024 11:39:45	R2404980-006	Zn (213.857 nm)	0.84	0.3794 (ppm)	11516.0319
6/13/2024 11:42:59	R2404980-006S	Ag (328.068 nm)	0.62	0.0474 (ppm)	2255.7096
6/13/2024 11:42:59	R2404980-006S	Al (237.312 nm)	0.07	75.9128 o (ppm)	96176.1736
6/13/2024 11:42:59	R2404980-006S	As (188.980 nm)	10.52	0.0459 (ppm)	46.4975
6/13/2024 11:42:59	R2404980-006S	B (249.772 nm)	0.15	0.9369 (ppm)	31490.8889
6/13/2024 11:42:59	R2404980-006S	Ba (230.424 nm)	0.58	2.3043 (ppm)	61710.8291
6/13/2024 11:42:59	R2404980-006S	Be (313.107 nm)	0.18	0.0503 (ppm)	68276.5651
6/13/2024 11:42:59	R2404980-006S	Ca (317.933 nm)	0.15	48.6274 (ppm)	1810177.7853
6/13/2024 11:42:59	R2404980-006S	Cd (214.439 nm)	0.45	0.0468 (ppm)	1194.1507
6/13/2024 11:42:59	R2404980-006S	Co (230.786 nm)	0.31	0.4817 (ppm)	4721.4192
6/13/2024 11:42:59	R2404980-006S	Cr (267.716 nm)	0.25	0.2835 (ppm)	8195.6598
6/13/2024 11:42:59	R2404980-006S	Cu (327.395 nm)	0.15	0.3262 (ppm)	11452.8259
6/13/2024 11:42:59	R2404980-006S	Fe (234.350 nm)	0.39	82.6114 o (ppm)	571164.4950
6/13/2024 11:42:59	R2404980-006S	K (766.491 nm)	0.24	23.9918 (ppm)	54289.5766
6/13/2024 11:42:59	R2404980-006S	Mg (279.078 nm)	0.19	18.0499 (ppm)	44426.8438
6/13/2024 11:42:59	R2404980-006S	Mn (257.610 nm)	0.03	1.2158 (ppm)	259701.6765
6/13/2024 11:42:59	R2404980-006S	Mo (202.032 nm)	1.00	0.4517 (ppm)	1961.4304
6/13/2024 11:42:59	R2404980-006S	Na (588.995 nm)	0.21	21.8121 (ppm)	620179.4241
6/13/2024 11:42:59	R2404980-006S	Ni (230.299 nm)	0.24	0.5626 (ppm)	4917.7001
6/13/2024 11:42:59	R2404980-006S	Pb (220.353 nm)	0.11	0.6221 (ppm)	1446.5712
6/13/2024 11:42:59	R2404980-006S	Sb (217.582 nm)	1.21	0.3472 (ppm)	287.3064
6/13/2024 11:42:59	R2404980-006S	Se (196.026 nm)	1.96	0.8609 (ppm)	590.8103
6/13/2024 11:42:59	R2404980-006S	Sn (189.925 nm)	0.69	4.6129 (ppm)	4267.2887
6/13/2024 11:42:59	R2404980-006S	Sr (216.596 nm)	0.43	1.9670 (ppm)	17875.6117
6/13/2024 11:42:59	R2404980-006S	Ti (336.122 nm)	0.40	0.7553 (ppm)	106250.2947
6/13/2024 11:42:59	R2404980-006S	Tl (190.794 nm)	0.26	1.7863 (ppm)	886.9705
6/13/2024 11:42:59	R2404980-006S	V (292.401 nm)	0.17	0.6054 (ppm)	14446.8542
6/13/2024 11:42:59	R2404980-006S	Y (360.074 nm)	0.04	1.05 (Ratio)	486290.47
6/13/2024 11:42:59	R2404980-006S	Y_R (360.074 nm)	0.04	1.05 (Ratio)	486637.34
6/13/2024 11:42:59	R2404980-006S	Zn (213.857 nm)	0.44	0.8783 (ppm)	26658.5335
6/13/2024 11:46:12	R2404980-006SD	Ag (328.068 nm)	0.37	0.0480 (ppm)	2287.6373
6/13/2024 11:46:12	R2404980-006SD	Al (237.312 nm)	0.30	78.8939 o (ppm)	99950.1626
6/13/2024 11:46:12	R2404980-006SD	As (188.980 nm)	12.54	0.0493 (ppm)	49.8070
6/13/2024 11:46:12	R2404980-006SD	B (249.772 nm)	0.22	0.9432 (ppm)	31701.2755

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/13/2024 11:46:12	R2404980-006SD	Ba (230.424 nm)	0.54	2.3248 (ppm)	62259.8020
6/13/2024 11:46:12	R2404980-006SD	Be (313.107 nm)	0.22	0.0508 (ppm)	69009.1758
6/13/2024 11:46:12	R2404980-006SD	Ca (317.933 nm)	0.13	51.7705 (ppm)	1927038.5806
6/13/2024 11:46:12	R2404980-006SD	Cd (214.439 nm)	0.47	0.0468 (ppm)	1194.6185
6/13/2024 11:46:12	R2404980-006SD	Co (230.786 nm)	0.37	0.4836 (ppm)	4739.6081
6/13/2024 11:46:12	R2404980-006SD	Cr (267.716 nm)	0.31	0.2916 (ppm)	8426.4598
6/13/2024 11:46:12	R2404980-006SD	Cu (327.395 nm)	0.55	0.3290 (ppm)	11552.6576
6/13/2024 11:46:12	R2404980-006SD	Fe (234.350 nm)	0.36	87.3822 o (ppm)	604146.7888
6/13/2024 11:46:12	R2404980-006SD	K (766.491 nm)	0.29	24.1946 (ppm)	54748.6753
6/13/2024 11:46:12	R2404980-006SD	Mg (279.078 nm)	0.21	18.8452 (ppm)	46383.9356
6/13/2024 11:46:12	R2404980-006SD	Mn (257.610 nm)	0.19	1.2333 (ppm)	263446.5254
6/13/2024 11:46:12	R2404980-006SD	Mo (202.032 nm)	1.37	0.4573 (ppm)	1985.4841
6/13/2024 11:46:12	R2404980-006SD	Na (588.995 nm)	0.04	21.9663 (ppm)	624735.3275
6/13/2024 11:46:12	R2404980-006SD	Ni (230.299 nm)	0.26	0.5641 (ppm)	4931.2524
6/13/2024 11:46:12	R2404980-006SD	Pb (220.353 nm)	0.59	0.6310 (ppm)	1467.1976
6/13/2024 11:46:12	R2404980-006SD	Sb (217.582 nm)	0.97	0.3437 (ppm)	284.3883
6/13/2024 11:46:12	R2404980-006SD	Se (196.026 nm)	0.57	0.8645 (ppm)	593.3252
6/13/2024 11:46:12	R2404980-006SD	Sn (189.925 nm)	0.26	4.6201 (ppm)	4273.9949
6/13/2024 11:46:12	R2404980-006SD	Sr (216.596 nm)	0.49	1.9716 (ppm)	17917.8593
6/13/2024 11:46:12	R2404980-006SD	Ti (336.122 nm)	0.66	0.7483 (ppm)	105262.4905
6/13/2024 11:46:12	R2404980-006SD	Tl (190.794 nm)	0.34	1.7957 (ppm)	891.6689
6/13/2024 11:46:12	R2404980-006SD	V (292.401 nm)	0.28	0.6191 (ppm)	14774.0075
6/13/2024 11:46:12	R2404980-006SD	Y (360.074 nm)	0.47	1.05 (Ratio)	487590.37
6/13/2024 11:46:12	R2404980-006SD	Y_R (360.074 nm)	0.47	1.05 (Ratio)	487884.51
6/13/2024 11:46:12	R2404980-006SD	Zn (213.857 nm)	0.61	0.8988 (ppm)	27281.7960
6/13/2024 11:49:25	R2404980-006A	Ag (328.068 nm)	1.15	0.0461 (ppm)	2192.4476
6/13/2024 11:49:25	R2404980-006A	Al (237.312 nm)	0.24	62.6365 o (ppm)	79369.0349
6/13/2024 11:49:25	R2404980-006A	As (188.980 nm)	14.10	0.0452 (ppm)	45.8122
6/13/2024 11:49:25	R2404980-006A	B (249.772 nm)	0.30	0.9838 (ppm)	33064.6874
6/13/2024 11:49:25	R2404980-006A	Ba (230.424 nm)	0.47	2.1906 (ppm)	58666.0689
6/13/2024 11:49:25	R2404980-006A	Be (313.107 nm)	0.36	0.0487 (ppm)	66083.3391
6/13/2024 11:49:25	R2404980-006A	Ca (317.933 nm)	0.33	44.6849 (ppm)	1663590.0380
6/13/2024 11:49:25	R2404980-006A	Cd (214.439 nm)	0.16	0.0455 (ppm)	1160.8316
6/13/2024 11:49:25	R2404980-006A	Co (230.786 nm)	0.22	0.4640 (ppm)	4546.8055
6/13/2024 11:49:25	R2404980-006A	Cr (267.716 nm)	0.30	0.2625 (ppm)	7592.1286
6/13/2024 11:49:25	R2404980-006A	Cu (327.395 nm)	0.21	0.3092 (ppm)	10857.8872
6/13/2024 11:49:25	R2404980-006A	Fe (234.350 nm)	0.38	71.7560 o (ppm)	496117.8584
6/13/2024 11:49:25	R2404980-006A	K (766.491 nm)	0.54	23.6502 (ppm)	53516.0986
6/13/2024 11:49:25	R2404980-006A	Mg (279.078 nm)	0.12	15.8784 (ppm)	39083.3377
6/13/2024 11:49:25	R2404980-006A	Mn (257.610 nm)	0.28	1.1000 (ppm)	234970.9470
6/13/2024 11:49:25	R2404980-006A	Mo (202.032 nm)	0.87	0.4631 (ppm)	2010.8374
6/13/2024 11:49:25	R2404980-006A	Na (588.995 nm)	0.21	21.0564 (ppm)	597858.7468
6/13/2024 11:49:25	R2404980-006A	Ni (230.299 nm)	0.13	0.5363 (ppm)	4688.8476
6/13/2024 11:49:25	R2404980-006A	Pb (220.353 nm)	0.46	0.5875 (ppm)	1366.4026
6/13/2024 11:49:25	R2404980-006A	Sb (217.582 nm)	1.68	0.4517 (ppm)	374.4322
6/13/2024 11:49:25	R2404980-006A	Se (196.026 nm)	0.76	0.8882 (ppm)	609.5201
6/13/2024 11:49:25	R2404980-006A	Sn (189.925 nm)	0.26	4.6532 (ppm)	4304.5263
6/13/2024 11:49:25	R2404980-006A	Sr (216.596 nm)	0.46	1.9644 (ppm)	17851.8280
6/13/2024 11:49:25	R2404980-006A	Ti (336.122 nm)	0.26	0.8449 (ppm)	118869.8785
6/13/2024 11:49:25	R2404980-006A	Tl (190.794 nm)	0.25	1.7393 (ppm)	863.6311
6/13/2024 11:49:25	R2404980-006A	V (292.401 nm)	0.45	0.5772 (ppm)	13776.9959

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/13/2024 11:49:25	R2404980-006A	Y (360.074 nm)	0.43	1.05 (Ratio)	485078.36
6/13/2024 11:49:25	R2404980-006A	Y_R (360.074 nm)	0.44	1.05 (Ratio)	485351.17
6/13/2024 11:49:25	R2404980-006A	Zn (213.857 nm)	0.25	0.8032 (ppm)	24381.8576
6/13/2024 11:52:38	R2404980-006L 5X	Ag (328.068 nm)	25.97	0.0005 (ppm)	-61.8330
6/13/2024 11:52:38	R2404980-006L 5X	Al (237.312 nm)	0.27	13.2913 (ppm)	16900.0189
6/13/2024 11:52:38	R2404980-006L 5X	As (188.980 nm)	47.45	0.0037 (ppm)	5.6959
6/13/2024 11:52:38	R2404980-006L 5X	B (249.772 nm)	1.42	0.0190 (ppm)	718.9420
6/13/2024 11:52:38	R2404980-006L 5X	Ba (230.424 nm)	0.38	0.0861 (ppm)	2309.7293
6/13/2024 11:52:38	R2404980-006L 5X	Be (313.107 nm)	2.06	0.0007 (ppm)	652.3712
6/13/2024 11:52:38	R2404980-006L 5X	Ca (317.933 nm)	0.21	9.4366 (ppm)	353039.2307
6/13/2024 11:52:38	R2404980-006L 5X	Cd (214.439 nm)	79.99	0.0004 (ppm)	17.1100
6/13/2024 11:52:38	R2404980-006L 5X	Co (230.786 nm)	15.96	0.0041 (ppm)	26.7281
6/13/2024 11:52:38	R2404980-006L 5X	Cr (267.716 nm)	1.34	0.0181 (ppm)	586.4205
6/13/2024 11:52:38	R2404980-006L 5X	Cu (327.395 nm)	1.59	0.0134 (ppm)	473.5603
6/13/2024 11:52:38	R2404980-006L 5X	Fe (234.350 nm)	0.12	15.6614 o (ppm)	108317.4264
6/13/2024 11:52:38	R2404980-006L 5X	K (766.491 nm)	1.58	1.0694 (ppm)	2388.7378
6/13/2024 11:52:38	R2404980-006L 5X	Mg (279.078 nm)	0.22	3.1199 (ppm)	7687.4404
6/13/2024 11:52:38	R2404980-006L 5X	Mn (257.610 nm)	0.19	0.1475 (ppm)	31514.5710
6/13/2024 11:52:38	R2404980-006L 5X	Mo (202.032 nm)	10.57	0.0052 (ppm)	23.5052
6/13/2024 11:52:38	R2404980-006L 5X	Na (588.995 nm)	1.41	0.4959 (ppm)	-9450.9498
6/13/2024 11:52:38	R2404980-006L 5X	Ni (230.299 nm)	4.02	0.0172 (ppm)	171.3905
6/13/2024 11:52:38	R2404980-006L 5X	Pb (220.353 nm)	7.46	0.0302 (ppm)	72.3896
6/13/2024 11:52:38	R2404980-006L 5X	Sb (217.582 nm)	> 100.00	0.0008 u (ppm)	-1.6549
6/13/2024 11:52:38	R2404980-006L 5X	Se (196.026 nm)	34.46	0.0044 (ppm)	4.8076
6/13/2024 11:52:38	R2404980-006L 5X	Sn (189.925 nm)	> 100.00	0.0015 u (ppm)	3.8271
6/13/2024 11:52:38	R2404980-006L 5X	Sr (216.596 nm)	2.39	0.0346 (ppm)	330.9241
6/13/2024 11:52:38	R2404980-006L 5X	Ti (336.122 nm)	0.61	0.0815 (ppm)	11301.7437
6/13/2024 11:52:38	R2404980-006L 5X	Tl (190.794 nm)	> 100.00	0.0003 u (ppm)	-0.1031
6/13/2024 11:52:38	R2404980-006L 5X	V (292.401 nm)	2.29	0.0271 (ppm)	676.8523
6/13/2024 11:52:38	R2404980-006L 5X	Y (360.074 nm)	0.24	1.04 (Ratio)	481955.31
6/13/2024 11:52:38	R2404980-006L 5X	Y_R (360.074 nm)	0.24	1.04 (Ratio)	482115.18
6/13/2024 11:52:38	R2404980-006L 5X	Zn (213.857 nm)	0.57	0.0800 (ppm)	2428.9337
6/13/2024 11:55:51	R2405041-001	Ag (328.068 nm)	1.01	0.0122 (ppm)	515.9436
6/13/2024 11:55:51	R2405041-001	Al (237.312 nm)	0.36	203.1111 o (ppm)	257203.7474
6/13/2024 11:55:51	R2405041-001	As (188.980 nm)	9.29	0.0399 (ppm)	40.6980
6/13/2024 11:55:51	R2405041-001	B (249.772 nm)	0.08	0.5736 (ppm)	19312.9407
6/13/2024 11:55:51	R2405041-001	Ba (230.424 nm)	0.67	1.3715 (ppm)	36730.0539
6/13/2024 11:55:51	R2405041-001	Be (313.107 nm)	0.68	0.0025 (ppm)	3014.1396
6/13/2024 11:55:51	R2405041-001	Ca (317.933 nm)	0.38	373.0863 o (ppm)	13873735.3988
6/13/2024 11:55:51	R2405041-001	Cd (214.439 nm)	0.82	0.0233 (ppm)	598.6693
6/13/2024 11:55:51	R2405041-001	Co (230.786 nm)	0.95	0.0905 (ppm)	875.8401
6/13/2024 11:55:51	R2405041-001	Cr (267.716 nm)	0.11	0.3448 (ppm)	9952.5659
6/13/2024 11:55:51	R2405041-001	Cu (327.395 nm)	1.07	3.3111 o (ppm)	116247.8692
6/13/2024 11:55:51	R2405041-001	Fe (234.350 nm)	0.17	98.7489 o (ppm)	682728.6154
6/13/2024 11:55:51	R2405041-001	K (766.491 nm)	0.25	45.1567 (ppm)	102210.8515
6/13/2024 11:55:51	R2405041-001	Mg (279.078 nm)	0.23	36.9413 (ppm)	90914.3333
6/13/2024 11:55:51	R2405041-001	Mn (257.610 nm)	0.29	3.1074 o (ppm)	663739.5345
6/13/2024 11:55:51	R2405041-001	Mo (202.032 nm)	2.64	0.0347 (ppm)	151.6157
6/13/2024 11:55:51	R2405041-001	Na (588.995 nm)	0.16	73.9789 o (ppm)	2161068.3425
6/13/2024 11:55:51	R2405041-001	Ni (230.299 nm)	0.25	0.3618 (ppm)	3170.1091
6/13/2024 11:55:51	R2405041-001	Pb (220.353 nm)	0.39	0.9572 (ppm)	2224.7028

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/13/2024 11:55:51	R2405041-001	Sb (217.582 nm)	28.17	0.0353 (ppm)	27.1601
6/13/2024 11:55:51	R2405041-001	Se (196.026 nm)	91.27	0.0033 (ppm)	3.9923
6/13/2024 11:55:51	R2405041-001	Sn (189.925 nm)	2.53	0.3721 (ppm)	346.5375
6/13/2024 11:55:51	R2405041-001	Sr (216.596 nm)	0.39	0.8813 (ppm)	8018.4500
6/13/2024 11:55:51	R2405041-001	Ti (336.122 nm)	0.58	0.3898 (ppm)	54741.3693
6/13/2024 11:55:51	R2405041-001	Tl (190.794 nm)	> 100.00	0.0005 u (ppm)	-0.0039
6/13/2024 11:55:51	R2405041-001	V (292.401 nm)	0.74	0.0723 (ppm)	1754.1519
6/13/2024 11:55:51	R2405041-001	Y (360.074 nm)	0.18	0.98 (Ratio)	453257.28
6/13/2024 11:55:51	R2405041-001	Y_R (360.074 nm)	0.17	0.98 (Ratio)	453466.92
6/13/2024 11:55:51	R2405041-001	Zn (213.857 nm)	1.12	5.6060 o (ppm) LR	170156.4137
6/13/2024 11:59:04	Continuing Calibration Verification1	Ag (328.068 nm)	0.51	0.5172 (ppm)	25465.0924
6/13/2024 11:59:04	Continuing Calibration Verification1	Al (237.312 nm)	0.61	10.4075 (ppm)	13249.2529
6/13/2024 11:59:04	Continuing Calibration Verification1	As (188.980 nm)	0.84	0.9892 (ppm)	957.5098
6/13/2024 11:59:04	Continuing Calibration Verification1	B (249.772 nm)	0.58	2.5699 (ppm)	86233.9641
6/13/2024 11:59:04	Continuing Calibration Verification1	Ba (230.424 nm)	0.58	10.1458 (ppm)	271696.2221
6/13/2024 11:59:04	Continuing Calibration Verification1	Be (313.107 nm)	0.67	0.2554 (ppm)	348138.4539
6/13/2024 11:59:04	Continuing Calibration Verification1	Ca (317.933 nm)	0.67	25.9253 (ppm)	966099.1600
6/13/2024 11:59:04	Continuing Calibration Verification1	Cd (214.439 nm)	0.55	0.4995 (ppm)	12686.5357
6/13/2024 11:59:04	Continuing Calibration Verification1	Co (230.786 nm)	0.30	2.5066 (ppm)	24624.7677
6/13/2024 11:59:04	Continuing Calibration Verification1	Cr (267.716 nm)	0.57	0.5099 (ppm)	14686.5653
6/13/2024 11:59:04	Continuing Calibration Verification1	Cu (327.395 nm)	0.52	1.3248 (ppm)	46512.5479
6/13/2024 11:59:04	Continuing Calibration Verification1	Fe (234.350 nm)	0.32	5.0496 (ppm)	34954.4309
6/13/2024 11:59:04	Continuing Calibration Verification1	K (766.491 nm)	0.56	26.0885 (ppm)	59036.8314
6/13/2024 11:59:04	Continuing Calibration Verification1	Mg (279.078 nm)	0.54	25.3519 (ppm)	62395.5151
6/13/2024 11:59:04	Continuing Calibration Verification1	Mn (257.610 nm)	0.62	0.7356 (ppm)	157121.5094
6/13/2024 11:59:04	Continuing Calibration Verification1	Mo (202.032 nm)	1.66	2.6018 (ppm)	11292.7322
6/13/2024 11:59:04	Continuing Calibration Verification1	Na (588.995 nm)	0.49	26.1857 (ppm)	749367.8479
6/13/2024 11:59:04	Continuing Calibration Verification1	Ni (230.299 nm)	0.53	2.0835 (ppm)	18152.4903
6/13/2024 11:59:04	Continuing Calibration Verification1	Pb (220.353 nm)	1.07	0.5038 (ppm)	1171.9813
6/13/2024 11:59:04	Continuing Calibration Verification1	Sb (217.582 nm)	0.67	4.9283 (ppm)	4108.2501
6/13/2024 11:59:04	Continuing Calibration Verification1	Se (196.026 nm)	1.38	0.4918 (ppm)	338.2450
6/13/2024 11:59:04	Continuing Calibration Verification1	Sn (189.925 nm)	0.38	5.1234 (ppm)	4739.3310
6/13/2024 11:59:04	Continuing Calibration Verification1	Sr (216.596 nm)	0.40	2.4641 (ppm)	22389.3963
6/13/2024 11:59:04	Continuing Calibration Verification1	Ti (336.122 nm)	0.92	2.6276 (ppm)	370057.4071
6/13/2024 11:59:04	Continuing Calibration Verification1	Tl (190.794 nm)	0.71	1.0164 (ppm)	504.5811
6/13/2024 11:59:04	Continuing Calibration Verification1	V (292.401 nm)	0.68	2.6322 (ppm)	62711.1135
6/13/2024 11:59:04	Continuing Calibration Verification1	Y (360.074 nm)	0.16	0.99 (Ratio)	457702.89
6/13/2024 11:59:04	Continuing Calibration Verification1	Y_R (360.074 nm)	0.16	0.99 (Ratio)	457750.74
6/13/2024 11:59:04	Continuing Calibration Verification1	Zn (213.857 nm)	0.50	0.9865 (ppm)	29944.3675
6/13/2024 12:02:18	Continuing Calibration Blank1	Ag (328.068 nm)	65.69	0.0004 (ppm)	-64.7616
6/13/2024 12:02:18	Continuing Calibration Blank1	Al (237.312 nm)	> 100.00	0.0023 u (ppm)	76.7325
6/13/2024 12:02:18	Continuing Calibration Blank1	As (188.980 nm)	86.22	0.0016 (ppm)	3.6845
6/13/2024 12:02:18	Continuing Calibration Blank1	B (249.772 nm)	91.01	0.0002 u (ppm)	89.5907
6/13/2024 12:02:18	Continuing Calibration Blank1	Ba (230.424 nm)	22.10	0.0001 (ppm)	7.4726
6/13/2024 12:02:18	Continuing Calibration Blank1	Be (313.107 nm)	> 100.00	0.0000 u (ppm)	-342.3665
6/13/2024 12:02:18	Continuing Calibration Blank1	Ca (317.933 nm)	12.61	-0.0015 u (ppm)	2126.6192
6/13/2024 12:02:18	Continuing Calibration Blank1	Cd (214.439 nm)	> 100.00	0.0000 u (ppm)	7.6317
6/13/2024 12:02:18	Continuing Calibration Blank1	Co (230.786 nm)	> 100.00	-0.0001 u (ppm)	-14.7273
6/13/2024 12:02:18	Continuing Calibration Blank1	Cr (267.716 nm)	34.53	-0.0005 u (ppm)	52.1503
6/13/2024 12:02:18	Continuing Calibration Blank1	Cu (327.395 nm)	> 100.00	-0.0001 u (ppm)	-2.2264
6/13/2024 12:02:18	Continuing Calibration Blank1	Fe (234.350 nm)	6.66	0.0115 (ppm)	124.1771

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/13/2024 12:02:18	Continuing Calibration Blank1	K (766.491 nm)	12.84	0.0648 (ppm)	114.1354
6/13/2024 12:02:18	Continuing Calibration Blank1	Mg (279.078 nm)	> 100.00	-0.0007 u (ppm)	8.4657
6/13/2024 12:02:18	Continuing Calibration Blank1	Mn (257.610 nm)	50.14	0.0000 (ppm)	15.5565
6/13/2024 12:02:18	Continuing Calibration Blank1	Mo (202.032 nm)	17.26	0.0155 (ppm)	68.4365
6/13/2024 12:02:18	Continuing Calibration Blank1	Na (588.995 nm)	> 100.00	0.0033 u (ppm)	-23999.8532
6/13/2024 12:02:18	Continuing Calibration Blank1	Ni (230.299 nm)	> 100.00	-0.0003 u (ppm)	19.8605
6/13/2024 12:02:18	Continuing Calibration Blank1	Pb (220.353 nm)	> 100.00	0.0007 u (ppm)	3.9223
6/13/2024 12:02:18	Continuing Calibration Blank1	Sb (217.582 nm)	19.35	0.0255 (ppm)	18.9889
6/13/2024 12:02:18	Continuing Calibration Blank1	Se (196.026 nm)	28.10	-0.0044 u (ppm)	-1.2549
6/13/2024 12:02:18	Continuing Calibration Blank1	Sn (189.925 nm)	> 100.00	-0.0022 u (ppm)	0.4040
6/13/2024 12:02:18	Continuing Calibration Blank1	Sr (216.596 nm)	67.24	-0.0003 u (ppm)	14.2429
6/13/2024 12:02:18	Continuing Calibration Blank1	Ti (336.122 nm)	18.04	0.0081 (ppm)	959.8712
6/13/2024 12:02:18	Continuing Calibration Blank1	Tl (190.794 nm)	> 100.00	-0.0012 u (ppm)	-0.8213
6/13/2024 12:02:18	Continuing Calibration Blank1	V (292.401 nm)	> 100.00	0.0004 (ppm)	42.1556
6/13/2024 12:02:18	Continuing Calibration Blank1	Y (360.074 nm)	0.34	1.03 (Ratio)	474823.45
6/13/2024 12:02:18	Continuing Calibration Blank1	Y_R (360.074 nm)	0.35	1.02 (Ratio)	474804.37
6/13/2024 12:02:18	Continuing Calibration Blank1	Zn (213.857 nm)	71.95	0.0001 (ppm)	5.9620
6/13/2024 12:05:31	Contract Required Detection Limit	Ag (328.068 nm)	1.12	0.0090 (ppm)	361.8890
6/13/2024 12:05:31	Contract Required Detection Limit	Al (237.312 nm)	2.72	0.1987 (ppm)	325.3731
6/13/2024 12:05:31	Contract Required Detection Limit	As (188.980 nm)	23.11	0.0179 (ppm)	19.4615
6/13/2024 12:05:31	Contract Required Detection Limit	B (249.772 nm)	0.45	0.2024 (ppm)	6869.3319
6/13/2024 12:05:31	Contract Required Detection Limit	Ba (230.424 nm)	0.31	0.2022 (ppm)	5419.5790
6/13/2024 12:05:31	Contract Required Detection Limit	Be (313.107 nm)	0.38	0.0052 (ppm)	6676.1521
6/13/2024 12:05:31	Contract Required Detection Limit	Ca (317.933 nm)	0.50	1.0502 (ppm)	41230.3930
6/13/2024 12:05:31	Contract Required Detection Limit	Cd (214.439 nm)	1.82	0.0102 (ppm)	265.7571
6/13/2024 12:05:31	Contract Required Detection Limit	Co (230.786 nm)	0.93	0.0493 (ppm)	471.3095
6/13/2024 12:05:31	Contract Required Detection Limit	Cr (267.716 nm)	1.85	0.0087 (ppm)	316.3489
6/13/2024 12:05:31	Contract Required Detection Limit	Cu (327.395 nm)	0.68	0.0252 (ppm)	885.4275
6/13/2024 12:05:31	Contract Required Detection Limit	Fe (234.350 nm)	0.42	0.1148 (ppm)	838.5213
6/13/2024 12:05:31	Contract Required Detection Limit	K (766.491 nm)	0.81	1.0507 (ppm)	2346.4386
6/13/2024 12:05:31	Contract Required Detection Limit	Mg (279.078 nm)	0.37	1.0213 (ppm)	2523.3673
6/13/2024 12:05:31	Contract Required Detection Limit	Mn (257.610 nm)	0.50	0.0139 (ppm)	2981.6920
6/13/2024 12:05:31	Contract Required Detection Limit	Mo (202.032 nm)	1.24	0.0282 (ppm)	123.5031
6/13/2024 12:05:31	Contract Required Detection Limit	Na (588.995 nm)	0.25	1.0492 (ppm)	6891.9027
6/13/2024 12:05:31	Contract Required Detection Limit	Ni (230.299 nm)	7.15	0.0347 (ppm)	324.2948
6/13/2024 12:05:31	Contract Required Detection Limit	Pb (220.353 nm)	24.53	0.0107 (ppm)	27.1097
6/13/2024 12:05:31	Contract Required Detection Limit	Sb (217.582 nm)	12.20	0.0735 R (ppm)	59.0262 R
6/13/2024 12:05:31	Contract Required Detection Limit	Se (196.026 nm)	82.38	0.0112 (ppm)	9.4120
6/13/2024 12:05:31	Contract Required Detection Limit	Sn (189.925 nm)	1.01	0.5016 (ppm)	466.2335
6/13/2024 12:05:31	Contract Required Detection Limit	Sr (216.596 nm)	1.40	0.0980 (ppm)	907.1281
6/13/2024 12:05:31	Contract Required Detection Limit	Ti (336.122 nm)	0.31	0.0518 (ppm)	7125.1634
6/13/2024 12:05:31	Contract Required Detection Limit	Tl (190.794 nm)	11.50	0.0229 (ppm)	11.1402
6/13/2024 12:05:31	Contract Required Detection Limit	V (292.401 nm)	0.52	0.0515 (ppm)	1258.2289
6/13/2024 12:05:31	Contract Required Detection Limit	Y (360.074 nm)	0.13	1.01 (Ratio)	465855.04
6/13/2024 12:05:31	Contract Required Detection Limit	Y_R (360.074 nm)	0.12	1.00 (Ratio)	465671.20
6/13/2024 12:05:31	Contract Required Detection Limit	Zn (213.857 nm)	0.46	0.0174 (ppm)	530.8006
6/13/2024 12:08:44	Interference Check Solution A	Ag (328.068 nm)	22.30	0.0006 (ppm)	-53.2176
6/13/2024 12:08:44	Interference Check Solution A	Al (237.312 nm)	0.37	261.1208 o (ppm)	330641.5413
6/13/2024 12:08:44	Interference Check Solution A	As (188.980 nm)	> 100.00	-0.0006 u (ppm)	1.5740
6/13/2024 12:08:44	Interference Check Solution A	B (249.772 nm)	0.61	0.0745 (ppm)	2582.5273
6/13/2024 12:08:44	Interference Check Solution A	Ba (230.424 nm)	34.53	0.0006 (ppm)	21.0436

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/13/2024 12:08:44	Interference Check Solution A	Be (313.107 nm)	10.95	0.0001 (ppm)	-155.3406
6/13/2024 12:08:44	Interference Check Solution A	Ca (317.933 nm)	0.49	241.2543 o (ppm)	8972149.2880
6/13/2024 12:08:44	Interference Check Solution A	Cd (214.439 nm)	33.63	-0.0006 u (ppm)	-9.1299
6/13/2024 12:08:44	Interference Check Solution A	Co (230.786 nm)	23.05	-0.0013 u (ppm)	-26.1523
6/13/2024 12:08:44	Interference Check Solution A	Cr (267.716 nm)	7.36	0.0045 (ppm)	195.1461
6/13/2024 12:08:44	Interference Check Solution A	Cu (327.395 nm)	14.47	0.0068 (ppm)	239.5230
6/13/2024 12:08:44	Interference Check Solution A	Fe (234.350 nm)	0.06	94.2120 o (ppm)	651363.3033
6/13/2024 12:08:44	Interference Check Solution A	K (766.491 nm)	18.56	0.1172 (ppm)	232.6730
6/13/2024 12:08:44	Interference Check Solution A	Mg (279.078 nm)	0.42	253.1632 o (ppm)	622986.8343
6/13/2024 12:08:44	Interference Check Solution A	Mn (257.610 nm)	0.95	0.0011 (ppm)	244.6391
6/13/2024 12:08:44	Interference Check Solution A	Mo (202.032 nm)	> 100.00	-0.0007 u (ppm)	-2.0929
6/13/2024 12:08:44	Interference Check Solution A	Na (588.995 nm)	7.43	-0.0681 u (ppm)	-26109.7069
6/13/2024 12:08:44	Interference Check Solution A	Ni (230.299 nm)	24.33	-0.0006 u (ppm)	17.3123
6/13/2024 12:08:44	Interference Check Solution A	Pb (220.353 nm)	> 100.00	-0.0036 u (ppm)	-6.0738
6/13/2024 12:08:44	Interference Check Solution A	Sb (217.582 nm)	> 100.00	-0.0041 u (ppm)	-5.6831
6/13/2024 12:08:44	Interference Check Solution A	Se (196.026 nm)	> 100.00	-0.0008 u (ppm)	1.2308
6/13/2024 12:08:44	Interference Check Solution A	Sn (189.925 nm)	73.10	-0.0018 u (ppm)	0.7858
6/13/2024 12:08:44	Interference Check Solution A	Sr (216.596 nm)	5.15	0.0131 (ppm)	135.9384
6/13/2024 12:08:44	Interference Check Solution A	Ti (336.122 nm)	2.05	0.0020 (ppm)	100.7815
6/13/2024 12:08:44	Interference Check Solution A	Tl (190.794 nm)	> 100.00	0.0005 u (ppm)	-0.0090
6/13/2024 12:08:44	Interference Check Solution A	V (292.401 nm)	5.34	0.0047 (ppm)	143.6638
6/13/2024 12:08:44	Interference Check Solution A	Y (360.074 nm)	0.40	0.93 (Ratio)	430446.29
6/13/2024 12:08:44	Interference Check Solution A	Y_R (360.074 nm)	0.39	0.93 (Ratio)	430539.56
6/13/2024 12:08:44	Interference Check Solution A	Zn (213.857 nm)	1.46	0.0101 (ppm)	309.0885
6/13/2024 12:11:58	Interference Check Solution AB	Ag (328.068 nm)	0.38	0.2048 (ppm)	10030.8999
6/13/2024 12:11:58	Interference Check Solution AB	Al (237.312 nm)	0.47	262.9532 o (ppm)	332961.3541
6/13/2024 12:11:58	Interference Check Solution AB	As (188.980 nm)	2.11	0.1003 (ppm)	99.0340
6/13/2024 12:11:58	Interference Check Solution AB	B (249.772 nm)	0.71	0.0727 (ppm)	2520.7457
6/13/2024 12:11:58	Interference Check Solution AB	Ba (230.424 nm)	0.40	0.5262 (ppm)	14094.2010
6/13/2024 12:11:58	Interference Check Solution AB	Be (313.107 nm)	0.32	0.5205 (ppm)	709780.4263
6/13/2024 12:11:58	Interference Check Solution AB	Ca (317.933 nm)	0.58	243.0081 o (ppm)	9037355.8490
6/13/2024 12:11:58	Interference Check Solution AB	Cd (214.439 nm)	0.17	0.9877 (ppm)	25081.2048
6/13/2024 12:11:58	Interference Check Solution AB	Co (230.786 nm)	0.53	0.4899 (ppm)	4801.5516
6/13/2024 12:11:58	Interference Check Solution AB	Cr (267.716 nm)	0.36	0.5155 (ppm)	14847.9504
6/13/2024 12:11:58	Interference Check Solution AB	Cu (327.395 nm)	0.73	0.5868 (ppm)	20601.7044
6/13/2024 12:11:58	Interference Check Solution AB	Fe (234.350 nm)	0.35	95.0004 o (ppm)	656813.5997
6/13/2024 12:11:58	Interference Check Solution AB	K (766.491 nm)	34.24	0.1041 (ppm)	203.1535
6/13/2024 12:11:58	Interference Check Solution AB	Mg (279.078 nm)	0.22	254.6044 o (ppm)	626533.2326
6/13/2024 12:11:58	Interference Check Solution AB	Mn (257.610 nm)	0.54	0.4950 (ppm)	105742.3508
6/13/2024 12:11:58	Interference Check Solution AB	Mo (202.032 nm)	38.44	-0.0009 u (ppm)	-2.9628
6/13/2024 12:11:58	Interference Check Solution AB	Na (588.995 nm)	23.48	-0.0710 u (ppm)	-26195.1124
6/13/2024 12:11:58	Interference Check Solution AB	Ni (230.299 nm)	0.69	1.0074 (ppm)	8788.0429
6/13/2024 12:11:58	Interference Check Solution AB	Pb (220.353 nm)	5.93	0.0474 (ppm)	112.3243
6/13/2024 12:11:58	Interference Check Solution AB	Sb (217.582 nm)	1.43	0.6152 (ppm)	510.8210
6/13/2024 12:11:58	Interference Check Solution AB	Se (196.026 nm)	16.07	0.0552 (ppm)	39.5481
6/13/2024 12:11:58	Interference Check Solution AB	Sn (189.925 nm)	> 100.00	-0.0021 u (ppm)	0.5368
6/13/2024 12:11:58	Interference Check Solution AB	Sr (216.596 nm)	11.91	0.0137 (ppm)	141.5391
6/13/2024 12:11:58	Interference Check Solution AB	Ti (336.122 nm)	4.35	0.0013 (ppm)	3.9705
6/13/2024 12:11:58	Interference Check Solution AB	Tl (190.794 nm)	4.37	0.1062 (ppm)	52.4938
6/13/2024 12:11:58	Interference Check Solution AB	V (292.401 nm)	0.57	0.5409 (ppm)	12912.6460
6/13/2024 12:11:58	Interference Check Solution AB	Y (360.074 nm)	0.50	0.93 (Ratio)	430355.93

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/13/2024 12:11:58	Interference Check Solution AB	Y_R (360.074 nm)	0.50	0.93 (Ratio)	430366.44
6/13/2024 12:11:58	Interference Check Solution AB	Zn (213.857 nm)	0.29	1.0165 (ppm)	30853.4801
6/13/2024 12:15:11	Continuing Calibration Verification1	Ag (328.068 nm)	0.43	0.5175 (ppm)	25479.9846
6/13/2024 12:15:11	Continuing Calibration Verification1	Al (237.312 nm)	0.57	10.4260 (ppm)	13272.7767
6/13/2024 12:15:11	Continuing Calibration Verification1	As (188.980 nm)	0.76	0.9868 (ppm)	955.1804
6/13/2024 12:15:11	Continuing Calibration Verification1	B (249.772 nm)	0.36	2.5822 (ppm)	86648.1792
6/13/2024 12:15:11	Continuing Calibration Verification1	Ba (230.424 nm)	0.60	10.1789 (ppm)	272581.8213
6/13/2024 12:15:11	Continuing Calibration Verification1	Be (313.107 nm)	0.56	0.2558 (ppm)	348603.3282
6/13/2024 12:15:11	Continuing Calibration Verification1	Ca (317.933 nm)	0.75	26.0067 (ppm)	969127.4204
6/13/2024 12:15:11	Continuing Calibration Verification1	Cd (214.439 nm)	0.36	0.4992 (ppm)	12678.8276
6/13/2024 12:15:11	Continuing Calibration Verification1	Co (230.786 nm)	0.55	2.5031 (ppm)	24589.9157
6/13/2024 12:15:11	Continuing Calibration Verification1	Cr (267.716 nm)	0.51	0.5105 (ppm)	14702.4547
6/13/2024 12:15:11	Continuing Calibration Verification1	Cu (327.395 nm)	0.58	1.3268 (ppm)	46582.3471
6/13/2024 12:15:11	Continuing Calibration Verification1	Fe (234.350 nm)	0.26	5.0515 (ppm)	34967.4495
6/13/2024 12:15:11	Continuing Calibration Verification1	K (766.491 nm)	0.47	26.0706 (ppm)	58996.3565
6/13/2024 12:15:11	Continuing Calibration Verification1	Mg (279.078 nm)	0.37	25.3921 (ppm)	62494.3181
6/13/2024 12:15:11	Continuing Calibration Verification1	Mn (257.610 nm)	0.45	0.7375 (ppm)	157537.9673
6/13/2024 12:15:11	Continuing Calibration Verification1	Mo (202.032 nm)	1.53	2.6075 (ppm)	11317.4778
6/13/2024 12:15:11	Continuing Calibration Verification1	Na (588.995 nm)	0.50	26.1893 (ppm)	749472.1849
6/13/2024 12:15:11	Continuing Calibration Verification1	Ni (230.299 nm)	0.56	2.0833 (ppm)	18150.5676
6/13/2024 12:15:11	Continuing Calibration Verification1	Pb (220.353 nm)	0.64	0.5047 (ppm)	1174.0813
6/13/2024 12:15:11	Continuing Calibration Verification1	Sb (217.582 nm)	0.48	4.8823 (ppm)	4069.9284
6/13/2024 12:15:11	Continuing Calibration Verification1	Se (196.026 nm)	1.53	0.4922 (ppm)	338.5669
6/13/2024 12:15:11	Continuing Calibration Verification1	Sn (189.925 nm)	0.42	5.0872 (ppm)	4705.8010
6/13/2024 12:15:11	Continuing Calibration Verification1	Sr (216.596 nm)	0.95	2.4737 (ppm)	22476.3571
6/13/2024 12:15:11	Continuing Calibration Verification1	Ti (336.122 nm)	0.65	2.6298 (ppm)	370356.4335
6/13/2024 12:15:11	Continuing Calibration Verification1	Tl (190.794 nm)	0.45	1.0143 (ppm)	503.5540
6/13/2024 12:15:11	Continuing Calibration Verification1	V (292.401 nm)	0.53	2.6380 (ppm)	62850.4355
6/13/2024 12:15:11	Continuing Calibration Verification1	Y (360.074 nm)	0.28	0.99 (Ratio)	456620.10
6/13/2024 12:15:11	Continuing Calibration Verification1	Y_R (360.074 nm)	0.29	0.98 (Ratio)	456493.57
6/13/2024 12:15:11	Continuing Calibration Verification1	Zn (213.857 nm)	0.42	0.9849 (ppm)	29895.6762
6/13/2024 12:18:24	Continuing Calibration Blank1	Ag (328.068 nm)	> 100.00	0.0001 u (ppm)	-81.0811
6/13/2024 12:18:24	Continuing Calibration Blank1	Al (237.312 nm)	> 100.00	0.0023 u (ppm)	76.7717
6/13/2024 12:18:24	Continuing Calibration Blank1	As (188.980 nm)	> 100.00	0.0006 u (ppm)	2.7662
6/13/2024 12:18:24	Continuing Calibration Blank1	B (249.772 nm)	> 100.00	0.0001 u (ppm)	86.1135
6/13/2024 12:18:24	Continuing Calibration Blank1	Ba (230.424 nm)	> 100.00	0.0000 u (ppm)	4.6019
6/13/2024 12:18:24	Continuing Calibration Blank1	Be (313.107 nm)	42.46	0.0000 (ppm)	-325.8681
6/13/2024 12:18:24	Continuing Calibration Blank1	Ca (317.933 nm)	15.74	-0.0018 u (ppm)	2116.0016
6/13/2024 12:18:24	Continuing Calibration Blank1	Cd (214.439 nm)	83.26	0.0002 (ppm)	11.9219
6/13/2024 12:18:24	Continuing Calibration Blank1	Co (230.786 nm)	> 100.00	0.0000 u (ppm)	-14.0357
6/13/2024 12:18:24	Continuing Calibration Blank1	Cr (267.716 nm)	26.07	-0.0004 u (ppm)	56.1461
6/13/2024 12:18:24	Continuing Calibration Blank1	Cu (327.395 nm)	76.47	-0.0003 u (ppm)	-8.4670
6/13/2024 12:18:24	Continuing Calibration Blank1	Fe (234.350 nm)	7.81	0.0089 (ppm)	106.6623
6/13/2024 12:18:24	Continuing Calibration Blank1	K (766.491 nm)	39.23	0.0179 (ppm)	7.8049
6/13/2024 12:18:24	Continuing Calibration Blank1	Mg (279.078 nm)	78.09	0.0023 (ppm)	15.9700
6/13/2024 12:18:24	Continuing Calibration Blank1	Mn (257.610 nm)	> 100.00	0.0000 (ppm)	15.9598
6/13/2024 12:18:24	Continuing Calibration Blank1	Mo (202.032 nm)	20.01	0.0157 (ppm)	69.0438
6/13/2024 12:18:24	Continuing Calibration Blank1	Na (588.995 nm)	> 100.00	-0.0059 u (ppm)	-24272.9851
6/13/2024 12:18:24	Continuing Calibration Blank1	Ni (230.299 nm)	55.22	-0.0006 u (ppm)	16.5321
6/13/2024 12:18:24	Continuing Calibration Blank1	Pb (220.353 nm)	14.53	-0.0020 u (ppm)	-2.2417
6/13/2024 12:18:24	Continuing Calibration Blank1	Sb (217.582 nm)	13.13	0.0346 (ppm)	26.5418

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/13/2024 12:18:24	Continuing Calibration Blank1	Se (196.026 nm)	36.16	0.0026 (ppm)	3.5591
6/13/2024 12:18:24	Continuing Calibration Blank1	Sn (189.925 nm)	65.41	-0.0027 u (ppm)	-0.0536
6/13/2024 12:18:24	Continuing Calibration Blank1	Sr (216.596 nm)	> 100.00	-0.0004 u (ppm)	13.7454
6/13/2024 12:18:24	Continuing Calibration Blank1	Ti (336.122 nm)	17.79	0.0074 (ppm)	863.3585
6/13/2024 12:18:24	Continuing Calibration Blank1	Tl (190.794 nm)	> 100.00	-0.0005 u (ppm)	-0.4831
6/13/2024 12:18:24	Continuing Calibration Blank1	V (292.401 nm)	35.34	0.0007 (ppm)	48.0393
6/13/2024 12:18:24	Continuing Calibration Blank1	Y (360.074 nm)	0.17	1.03 (Ratio)	474773.53
6/13/2024 12:18:24	Continuing Calibration Blank1	Y_R (360.074 nm)	0.16	1.02 (Ratio)	474539.99
6/13/2024 12:18:24	Continuing Calibration Blank1	Zn (213.857 nm)	51.06	0.0001 (ppm)	3.9553
6/13/2024 12:21:37	PBT-439709	Ag (328.068 nm)	46.06	0.0003 (ppm)	-72.4509
6/13/2024 12:21:37	PBT-439709	Al (237.312 nm)	9.08	0.0487 (ppm)	135.5577
6/13/2024 12:21:37	PBT-439709	As (188.980 nm)	> 100.00	-0.0003 u (ppm)	1.8363
6/13/2024 12:21:37	PBT-439709	B (249.772 nm)	14.04	0.0008 (ppm)	109.6119
6/13/2024 12:21:37	PBT-439709	Ba (230.424 nm)	> 100.00	-0.0002 u (ppm)	-0.7229
6/13/2024 12:21:37	PBT-439709	Be (313.107 nm)	> 100.00	0.0000 u (ppm)	-337.4790
6/13/2024 12:21:37	PBT-439709	Ca (317.933 nm)	3.99	0.0161 (ppm)	2779.6288
6/13/2024 12:21:37	PBT-439709	Cd (214.439 nm)	65.51	0.0002 (ppm)	12.3434
6/13/2024 12:21:37	PBT-439709	Co (230.786 nm)	98.06	-0.0004 u (ppm)	-17.7105
6/13/2024 12:21:37	PBT-439709	Cr (267.716 nm)	29.78	0.0004 (ppm)	79.0171
6/13/2024 12:21:37	PBT-439709	Cu (327.395 nm)	> 100.00	0.0000 u (ppm)	2.5250
6/13/2024 12:21:37	PBT-439709	Fe (234.350 nm)	30.21	0.0260 (ppm)	225.0285
6/13/2024 12:21:37	PBT-439709	K (766.491 nm)	7.41	0.1530 (ppm)	313.7934
6/13/2024 12:21:37	PBT-439709	Mg (279.078 nm)	33.81	0.0029 (ppm)	17.3191
6/13/2024 12:21:37	PBT-439709	Mn (257.610 nm)	8.89	0.0002 (ppm)	44.6876
6/13/2024 12:21:37	PBT-439709	Mo (202.032 nm)	25.66	0.0044 (ppm)	20.0871
6/13/2024 12:21:37	PBT-439709	Na (588.995 nm)	13.08	0.0810 (ppm)	-21706.0621
6/13/2024 12:21:37	PBT-439709	Ni (230.299 nm)	61.12	-0.0006 u (ppm)	16.7404
6/13/2024 12:21:37	PBT-439709	Pb (220.353 nm)	> 100.00	0.0004 u (ppm)	3.3598
6/13/2024 12:21:37	PBT-439709	Sb (217.582 nm)	19.48	0.0527 (ppm)	41.6938
6/13/2024 12:21:37	PBT-439709	Se (196.026 nm)	75.65	-0.0063 u (ppm)	-2.5726
6/13/2024 12:21:37	PBT-439709	Sn (189.925 nm)	69.13	-0.0008 u (ppm)	1.7562
6/13/2024 12:21:37	PBT-439709	Sr (216.596 nm)	> 100.00	0.0002 u (ppm)	18.5934
6/13/2024 12:21:37	PBT-439709	Ti (336.122 nm)	15.29	0.0029 (ppm)	229.2039
6/13/2024 12:21:37	PBT-439709	Tl (190.794 nm)	> 100.00	-0.0025 u (ppm)	-1.4622
6/13/2024 12:21:37	PBT-439709	V (292.401 nm)	7.31	0.0006 (ppm)	45.1474
6/13/2024 12:21:37	PBT-439709	Y (360.074 nm)	0.29	1.02 (Ratio)	472893.84
6/13/2024 12:21:37	PBT-439709	Y_R (360.074 nm)	0.30	1.02 (Ratio)	472658.28
6/13/2024 12:21:37	PBT-439709	Zn (213.857 nm)	24.13	0.0005 (ppm)	17.5398
6/13/2024 12:24:50	LCST-439709	Ag (328.068 nm)	0.73	0.2495 (ppm)	12239.2681
6/13/2024 12:24:50	LCST-439709	Al (237.312 nm)	43.20	0.0057 (ppm)	81.0487
6/13/2024 12:24:50	LCST-439709	As (188.980 nm)	1.58	0.9285 (ppm)	898.8678
6/13/2024 12:24:50	LCST-439709	B (249.772 nm)	29.67	0.0005 (ppm)	101.7514
6/13/2024 12:24:50	LCST-439709	Ba (230.424 nm)	1.31	1.9735 (ppm)	52851.8649
6/13/2024 12:24:50	LCST-439709	Be (313.107 nm)	3.96	0.0000 (ppm)	-328.3727
6/13/2024 12:24:50	LCST-439709	Ca (317.933 nm)	3.17	0.0148 (ppm)	2734.3415
6/13/2024 12:24:50	LCST-439709	Cd (214.439 nm)	0.48	0.4890 (ppm)	12421.3882
6/13/2024 12:24:50	LCST-439709	Co (230.786 nm)	> 100.00	-0.0013 u (ppm)	-26.6750
6/13/2024 12:24:50	LCST-439709	Cr (267.716 nm)	0.64	0.4947 (ppm)	14250.4802
6/13/2024 12:24:50	LCST-439709	Cu (327.395 nm)	0.46	1.0240 (ppm)	35951.9559
6/13/2024 12:24:50	LCST-439709	Fe (234.350 nm)	1.82	0.0233 (ppm)	205.9491
6/13/2024 12:24:50	LCST-439709	K (766.491 nm)	9.04	0.1475 (ppm)	301.3283

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/13/2024 12:24:50	LCST-439709	Mg (279.078 nm)	81.93	0.0009 (ppm)	12.4749
6/13/2024 12:24:50	LCST-439709	Mn (257.610 nm)	15.71	0.0001 (ppm)	27.9451
6/13/2024 12:24:50	LCST-439709	Mo (202.032 nm)	36.49	0.0018 (ppm)	8.6540
6/13/2024 12:24:50	LCST-439709	Na (588.995 nm)	21.41	0.0774 (ppm)	-21813.5417
6/13/2024 12:24:50	LCST-439709	Ni (230.299 nm)	0.22	1.0159 (ppm)	8861.9071
6/13/2024 12:24:50	LCST-439709	Pb (220.353 nm)	0.48	0.4986 (ppm)	1159.8442
6/13/2024 12:24:50	LCST-439709	Sb (217.582 nm)	42.16	0.0221 (ppm)	16.1678
6/13/2024 12:24:50	LCST-439709	Se (196.026 nm)	1.07	0.9239 (ppm)	633.9456
6/13/2024 12:24:50	LCST-439709	Sn (189.925 nm)	> 100.00	-0.0014 u (ppm)	1.1894
6/13/2024 12:24:50	LCST-439709	Sr (216.596 nm)	> 100.00	0.0005 u (ppm)	21.5315
6/13/2024 12:24:50	LCST-439709	Ti (336.122 nm)	29.05	0.0006 (ppm)	-91.0573
6/13/2024 12:24:50	LCST-439709	Tl (190.794 nm)	> 100.00	-0.0025 u (ppm)	-1.4784
6/13/2024 12:24:50	LCST-439709	V (292.401 nm)	> 100.00	0.0005 (ppm)	44.0923
6/13/2024 12:24:50	LCST-439709	Y (360.074 nm)	0.42	1.02 (Ratio)	473290.47
6/13/2024 12:24:50	LCST-439709	Y_R (360.074 nm)	0.42	1.02 (Ratio)	473024.89
6/13/2024 12:24:50	LCST-439709	Zn (213.857 nm)	0.56	0.9478 (ppm)	28768.7802
6/13/2024 12:28:03	RQ2406448-01	Ag (328.068 nm)	60.47	0.0005 (ppm)	-60.0660
6/13/2024 12:28:03	RQ2406448-01	Al (237.312 nm)	15.86	0.0393 (ppm)	123.6076
6/13/2024 12:28:03	RQ2406448-01	As (188.980 nm)	94.01	0.0041 (ppm)	6.1476
6/13/2024 12:28:03	RQ2406448-01	B (249.772 nm)	1.37	0.0132 (ppm)	526.5494
6/13/2024 12:28:03	RQ2406448-01	Ba (230.424 nm)	6.45	0.0024 (ppm)	67.7418
6/13/2024 12:28:03	RQ2406448-01	Be (313.107 nm)	6.95	0.0000 (ppm)	-317.3448
6/13/2024 12:28:03	RQ2406448-01	Ca (317.933 nm)	0.06	0.2496 (ppm)	11464.0701
6/13/2024 12:28:03	RQ2406448-01	Cd (214.439 nm)	> 100.00	0.0002 u (ppm)	10.6282
6/13/2024 12:28:03	RQ2406448-01	Co (230.786 nm)	> 100.00	0.0004 (ppm)	-10.0051
6/13/2024 12:28:03	RQ2406448-01	Cr (267.716 nm)	> 100.00	-0.0001 u (ppm)	64.7064
6/13/2024 12:28:03	RQ2406448-01	Cu (327.395 nm)	0.38	0.1079 (ppm)	3788.9973
6/13/2024 12:28:03	RQ2406448-01	Fe (234.350 nm)	1.59	0.0846 (ppm)	629.6582
6/13/2024 12:28:03	RQ2406448-01	K (766.491 nm)	9.26	0.1372 (ppm)	278.0039
6/13/2024 12:28:03	RQ2406448-01	Mg (279.078 nm)	0.82	0.0594 (ppm)	156.2884
6/13/2024 12:28:03	RQ2406448-01	Mn (257.610 nm)	1.43	0.0014 (ppm)	305.9069
6/13/2024 12:28:03	RQ2406448-01	Mo (202.032 nm)	> 100.00	-0.0001 u (ppm)	0.4024
6/13/2024 12:28:03	RQ2406448-01	Na (588.995 nm)	0.15	11.4150 (ppm)	313073.3443
6/13/2024 12:28:03	RQ2406448-01	Ni (230.299 nm)	75.32	-0.0012 u (ppm)	12.1000
6/13/2024 12:28:03	RQ2406448-01	Pb (220.353 nm)	10.29	0.0053 (ppm)	14.6751
6/13/2024 12:28:03	RQ2406448-01	Sb (217.582 nm)	34.84	0.0151 (ppm)	10.2560
6/13/2024 12:28:03	RQ2406448-01	Se (196.026 nm)	> 100.00	0.0032 u (ppm)	3.9197
6/13/2024 12:28:03	RQ2406448-01	Sn (189.925 nm)	> 100.00	-0.0005 u (ppm)	2.0000
6/13/2024 12:28:03	RQ2406448-01	Sr (216.596 nm)	69.03	0.0004 (ppm)	20.5467
6/13/2024 12:28:03	RQ2406448-01	Ti (336.122 nm)	> 100.00	-0.0001 u (ppm)	-187.8148
6/13/2024 12:28:03	RQ2406448-01	Tl (190.794 nm)	72.41	-0.0070 u (ppm)	-3.7122
6/13/2024 12:28:03	RQ2406448-01	V (292.401 nm)	29.65	0.0009 (ppm)	51.8087
6/13/2024 12:28:03	RQ2406448-01	Y (360.074 nm)	0.02	1.03 (Ratio)	478396.86
6/13/2024 12:28:03	RQ2406448-01	Y_R (360.074 nm)	0.02	1.03 (Ratio)	478256.39
6/13/2024 12:28:03	RQ2406448-01	Zn (213.857 nm)	0.89	0.1028 (ppm)	3122.4036
6/13/2024 12:31:17	R2404735-001	Ag (328.068 nm)	9.40	0.0007 (ppm)	-50.0442
6/13/2024 12:31:17	R2404735-001	Al (237.312 nm)	1.09	0.5444 (ppm)	763.0815
6/13/2024 12:31:17	R2404735-001	As (188.980 nm)	> 100.00	0.0039 u (ppm)	5.9486
6/13/2024 12:31:17	R2404735-001	B (249.772 nm)	0.03	0.0927 (ppm)	3192.1762
6/13/2024 12:31:17	R2404735-001	Ba (230.424 nm)	0.49	0.7557 (ppm)	20242.0007
6/13/2024 12:31:17	R2404735-001	Be (313.107 nm)	1.25	0.0008 (ppm)	781.5515

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/13/2024 12:31:17	R2404735-001	Ca (317.933 nm)	N/A	#### (ppm)	####
6/13/2024 12:31:17	R2404735-001	Cd (214.439 nm)	0.69	0.0063 (ppm)	165.6404
6/13/2024 12:31:17	R2404735-001	Co (230.786 nm)	2.38	0.0243 (ppm)	225.4765
6/13/2024 12:31:17	R2404735-001	Cr (267.716 nm)	6.44	-0.0019 u (ppm)	12.4451
6/13/2024 12:31:17	R2404735-001	Cu (327.395 nm)	4.10	0.0222 (ppm)	780.0332
6/13/2024 12:31:17	R2404735-001	Fe (234.350 nm)	0.53	0.1216 (ppm)	885.9239
6/13/2024 12:31:17	R2404735-001	K (766.491 nm)	1.09	4.9054 (ppm)	11074.2033
6/13/2024 12:31:17	R2404735-001	Mg (279.078 nm)	0.33	125.8816 o (ppm)	309775.9219
6/13/2024 12:31:17	R2404735-001	Mn (257.610 nm)	0.38	7.3312 o (ppm)	1565952.0104
6/13/2024 12:31:17	R2404735-001	Mo (202.032 nm)	56.29	-0.0011 u (ppm)	-3.9802
6/13/2024 12:31:17	R2404735-001	Na (588.995 nm)	0.21	3.7696 (ppm)	87246.5678
6/13/2024 12:31:17	R2404735-001	Ni (230.299 nm)	3.97	0.0337 (ppm)	315.4278
6/13/2024 12:31:17	R2404735-001	Pb (220.353 nm)	0.81	0.1783 (ppm)	416.3566
6/13/2024 12:31:17	R2404735-001	Sb (217.582 nm)	54.30	0.0081 (ppm)	4.4766
6/13/2024 12:31:17	R2404735-001	Se (196.026 nm)	> 100.00	0.0003 u (ppm)	1.9848
6/13/2024 12:31:17	R2404735-001	Sn (189.925 nm)	> 100.00	-0.0022 u (ppm)	0.4503
6/13/2024 12:31:17	R2404735-001	Sr (216.596 nm)	0.47	1.3205 (ppm)	12006.0056
6/13/2024 12:31:17	R2404735-001	Ti (336.122 nm)	0.21	0.0153 (ppm)	1978.1658
6/13/2024 12:31:17	R2404735-001	Tl (190.794 nm)	> 100.00	0.0007 u (ppm)	0.1245
6/13/2024 12:31:17	R2404735-001	V (292.401 nm)	16.02	0.0019 (ppm)	75.7723
6/13/2024 12:31:17	R2404735-001	Y (360.074 nm)	0.15	0.95 (Ratio)	439506.26
6/13/2024 12:31:17	R2404735-001	Y_R (360.074 nm)	0.13	0.95 (Ratio)	439548.42
6/13/2024 12:31:17	R2404735-001	Zn (213.857 nm)	0.30	4.7402 o (ppm)	143876.6256
6/13/2024 12:34:30	R2404735-001S	Ag (328.068 nm)	0.22	0.2734 (ppm)	13420.6728
6/13/2024 12:34:30	R2404735-001S	Al (237.312 nm)	1.02	0.5315 (ppm)	746.7541
6/13/2024 12:34:30	R2404735-001S	As (188.980 nm)	1.06	0.9735 (ppm)	942.3188
6/13/2024 12:34:30	R2404735-001S	B (249.772 nm)	0.27	0.0914 (ppm)	3147.5080
6/13/2024 12:34:30	R2404735-001S	Ba (230.424 nm)	0.11	2.7016 (ppm)	72348.7931
6/13/2024 12:34:30	R2404735-001S	Be (313.107 nm)	1.31	0.0008 (ppm)	767.2541
6/13/2024 12:34:30	R2404735-001S	Ca (317.933 nm)	N/A	#### (ppm)	####
6/13/2024 12:34:30	R2404735-001S	Cd (214.439 nm)	0.25	0.4667 (ppm)	11855.6078
6/13/2024 12:34:30	R2404735-001S	Co (230.786 nm)	2.93	0.0228 (ppm)	210.1959
6/13/2024 12:34:30	R2404735-001S	Cr (267.716 nm)	0.12	0.4727 (ppm)	13619.0195
6/13/2024 12:34:30	R2404735-001S	Cu (327.395 nm)	0.31	1.1685 (ppm)	41023.8809
6/13/2024 12:34:30	R2404735-001S	Fe (234.350 nm)	0.94	0.1361 (ppm)	985.9484
6/13/2024 12:34:30	R2404735-001S	K (766.491 nm)	0.34	4.8558 (ppm)	10961.8435
6/13/2024 12:34:30	R2404735-001S	Mg (279.078 nm)	0.18	125.1609 o (ppm)	308002.4298
6/13/2024 12:34:30	R2404735-001S	Mn (257.610 nm)	0.17	7.2755 o (ppm)	1554045.5615
6/13/2024 12:34:30	R2404735-001S	Mo (202.032 nm)	61.48	-0.0011 u (ppm)	-3.9213
6/13/2024 12:34:30	R2404735-001S	Na (588.995 nm)	0.47	3.7649 (ppm)	87107.8430
6/13/2024 12:34:30	R2404735-001S	Ni (230.299 nm)	0.42	0.9785 (ppm)	8537.2343
6/13/2024 12:34:30	R2404735-001S	Pb (220.353 nm)	0.42	0.6530 (ppm)	1518.2872
6/13/2024 12:34:30	R2404735-001S	Sb (217.582 nm)	25.33	0.0087 (ppm)	4.9838
6/13/2024 12:34:30	R2404735-001S	Se (196.026 nm)	0.62	0.9787 (ppm)	671.4360
6/13/2024 12:34:30	R2404735-001S	Sn (189.925 nm)	28.28	-0.0036 u (ppm)	-0.8707
6/13/2024 12:34:30	R2404735-001S	Sr (216.596 nm)	0.17	1.3109 (ppm)	11918.7064
6/13/2024 12:34:30	R2404735-001S	Ti (336.122 nm)	1.32	0.0149 (ppm)	1927.3403
6/13/2024 12:34:30	R2404735-001S	Tl (190.794 nm)	> 100.00	0.0024 u (ppm)	0.9605
6/13/2024 12:34:30	R2404735-001S	V (292.401 nm)	22.02	0.0016 (ppm)	68.5855
6/13/2024 12:34:30	R2404735-001S	Y (360.074 nm)	0.24	0.95 (Ratio)	439767.94
6/13/2024 12:34:30	R2404735-001S	Y_R (360.074 nm)	0.24	0.95 (Ratio)	439818.85

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/13/2024 12:34:30	R2404735-001S	Zn (213.857 nm)	0.36	5.6628 o (ppm)	171879.7427
6/13/2024 12:37:44	R2404735-001SD	Ag (328.068 nm)	0.61	0.2652 (ppm)	13016.3289
6/13/2024 12:37:44	R2404735-001SD	Al (237.312 nm)	2.14	0.5164 (ppm)	727.6466
6/13/2024 12:37:44	R2404735-001SD	As (188.980 nm)	1.55	0.9577 (ppm)	927.0478
6/13/2024 12:37:44	R2404735-001SD	B (249.772 nm)	0.49	0.0889 (ppm)	3063.3031
6/13/2024 12:37:44	R2404735-001SD	Ba (230.424 nm)	0.51	2.6303 (ppm)	70440.1921
6/13/2024 12:37:44	R2404735-001SD	Be (313.107 nm)	1.47	0.0008 (ppm)	736.0653
6/13/2024 12:37:44	R2404735-001SD	Ca (317.933 nm)	N/A	#### (ppm)	####
6/13/2024 12:37:44	R2404735-001SD	Cd (214.439 nm)	0.28	0.4551 (ppm)	11558.9464
6/13/2024 12:37:44	R2404735-001SD	Co (230.786 nm)	3.50	0.0223 (ppm)	205.0439
6/13/2024 12:37:44	R2404735-001SD	Cr (267.716 nm)	0.35	0.4589 (ppm)	13223.6744
6/13/2024 12:37:44	R2404735-001SD	Cu (327.395 nm)	0.33	1.1320 (ppm)	39742.6888
6/13/2024 12:37:44	R2404735-001SD	Fe (234.350 nm)	0.80	0.1248 (ppm)	907.6370
6/13/2024 12:37:44	R2404735-001SD	K (766.491 nm)	0.82	4.6531 (ppm)	10502.8362
6/13/2024 12:37:44	R2404735-001SD	Mg (279.078 nm)	0.43	121.7432 o (ppm)	299592.3951
6/13/2024 12:37:44	R2404735-001SD	Mn (257.610 nm)	0.33	7.0852 o (ppm)	1513396.8697
6/13/2024 12:37:44	R2404735-001SD	Mo (202.032 nm)	95.53	-0.0015 u (ppm)	-5.5780
6/13/2024 12:37:44	R2404735-001SD	Na (588.995 nm)	0.16	3.6389 (ppm)	83385.5063
6/13/2024 12:37:44	R2404735-001SD	Ni (230.299 nm)	0.48	0.9442 (ppm)	8238.3238
6/13/2024 12:37:44	R2404735-001SD	Pb (220.353 nm)	0.77	0.6336 (ppm)	1473.3641
6/13/2024 12:37:44	R2404735-001SD	Sb (217.582 nm)	59.64	0.0058 (ppm)	2.5292
6/13/2024 12:37:44	R2404735-001SD	Se (196.026 nm)	0.66	0.9653 (ppm)	662.2730
6/13/2024 12:37:44	R2404735-001SD	Sn (189.925 nm)	53.07	-0.0034 u (ppm)	-0.6306
6/13/2024 12:37:44	R2404735-001SD	Sr (216.596 nm)	0.43	1.2771 (ppm)	11612.4971
6/13/2024 12:37:44	R2404735-001SD	Ti (336.122 nm)	1.04	0.0144 (ppm)	1858.3119
6/13/2024 12:37:44	R2404735-001SD	Tl (190.794 nm)	50.56	-0.0050 u (ppm)	-2.7158
6/13/2024 12:37:44	R2404735-001SD	V (292.401 nm)	24.40	0.0018 (ppm)	74.5654
6/13/2024 12:37:44	R2404735-001SD	Y (360.074 nm)	0.24	0.96 (Ratio)	442089.20
6/13/2024 12:37:44	R2404735-001SD	Y_R (360.074 nm)	0.24	0.95 (Ratio)	442111.21
6/13/2024 12:37:44	R2404735-001SD	Zn (213.857 nm)	0.43	5.5109 o (ppm)	167268.1602
6/13/2024 12:40:58	R2404735-001A	Ag (328.068 nm)	0.26	0.2647 (ppm)	12990.6056
6/13/2024 12:40:58	R2404735-001A	Al (237.312 nm)	2.07	0.5276 (ppm)	741.7376
6/13/2024 12:40:58	R2404735-001A	As (188.980 nm)	0.92	0.9508 (ppm)	920.4510
6/13/2024 12:40:58	R2404735-001A	B (249.772 nm)	0.32	0.0906 (ppm)	3121.3339
6/13/2024 12:40:58	R2404735-001A	Ba (230.424 nm)	0.62	2.6397 (ppm)	70691.8846
6/13/2024 12:40:58	R2404735-001A	Be (313.107 nm)	1.34	0.0008 (ppm)	774.1102
6/13/2024 12:40:58	R2404735-001A	Ca (317.933 nm)	N/A	#### (ppm)	####
6/13/2024 12:40:58	R2404735-001A	Cd (214.439 nm)	0.17	0.4525 (ppm)	11494.5946
6/13/2024 12:40:58	R2404735-001A	Co (230.786 nm)	0.26	0.0224 (ppm)	206.7234
6/13/2024 12:40:58	R2404735-001A	Cr (267.716 nm)	0.17	0.4593 (ppm)	13234.9508
6/13/2024 12:40:58	R2404735-001A	Cu (327.395 nm)	0.33	1.1354 (ppm)	39864.2251
6/13/2024 12:40:58	R2404735-001A	Fe (234.350 nm)	0.07	0.1293 (ppm)	938.8490
6/13/2024 12:40:58	R2404735-001A	K (766.491 nm)	0.40	4.7383 (ppm)	10695.7093
6/13/2024 12:40:58	R2404735-001A	Mg (279.078 nm)	0.16	123.5879 o (ppm)	304131.7757
6/13/2024 12:40:58	R2404735-001A	Mn (257.610 nm)	0.18	7.1912 o (ppm)	1536044.2401
6/13/2024 12:40:58	R2404735-001A	Mo (202.032 nm)	86.72	-0.0019 u (ppm)	-7.0460
6/13/2024 12:40:58	R2404735-001A	Na (588.995 nm)	0.58	3.6769 (ppm)	84508.2855
6/13/2024 12:40:58	R2404735-001A	Ni (230.299 nm)	0.63	0.9522 (ppm)	8307.7611
6/13/2024 12:40:58	R2404735-001A	Pb (220.353 nm)	0.52	0.6346 (ppm)	1475.7542
6/13/2024 12:40:58	R2404735-001A	Sb (217.582 nm)	11.68	0.0080 (ppm)	4.3411
6/13/2024 12:40:58	R2404735-001A	Se (196.026 nm)	0.50	0.9614 (ppm)	659.6048

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/13/2024 12:40:58	R2404735-001A	Sn (189.925 nm)	> 100.00	-0.0015 u (ppm)	1.0694
6/13/2024 12:40:58	R2404735-001A	Sr (216.596 nm)	0.46	1.2939 (ppm)	11764.4517
6/13/2024 12:40:58	R2404735-001A	Ti (336.122 nm)	0.44	0.0146 (ppm)	1885.7582
6/13/2024 12:40:58	R2404735-001A	Tl (190.794 nm)	> 100.00	-0.0026 u (ppm)	-1.5330
6/13/2024 12:40:58	R2404735-001A	V (292.401 nm)	13.77	0.0022 (ppm)	84.6622
6/13/2024 12:40:58	R2404735-001A	Y (360.074 nm)	0.11	0.95 (Ratio)	439227.71
6/13/2024 12:40:58	R2404735-001A	Y_R (360.074 nm)	0.11	0.95 (Ratio)	439204.00
6/13/2024 12:40:58	R2404735-001A	Zn (213.857 nm)	0.30	5.5946 o (ppm)	169808.4887
6/13/2024 12:44:12	R2404735-001L 5X	Ag (328.068 nm)	47.45	0.0004 (ppm)	-65.5784
6/13/2024 12:44:12	R2404735-001L 5X	Al (237.312 nm)	5.17	0.0922 (ppm)	190.5121
6/13/2024 12:44:12	R2404735-001L 5X	As (188.980 nm)	42.06	0.0029 (ppm)	4.9505
6/13/2024 12:44:12	R2404735-001L 5X	B (249.772 nm)	1.10	0.0171 (ppm)	658.2506
6/13/2024 12:44:12	R2404735-001L 5X	Ba (230.424 nm)	0.34	0.1560 (ppm)	4180.9550
6/13/2024 12:44:12	R2404735-001L 5X	Be (313.107 nm)	5.29	0.0002 (ppm)	-110.8963
6/13/2024 12:44:12	R2404735-001L 5X	Ca (317.933 nm)	0.10	264.3817 o (ppm)	9832038.6951
6/13/2024 12:44:12	R2404735-001L 5X	Cd (214.439 nm)	29.59	0.0013 (ppm)	40.0180
6/13/2024 12:44:12	R2404735-001L 5X	Co (230.786 nm)	31.19	0.0041 (ppm)	26.8418
6/13/2024 12:44:12	R2404735-001L 5X	Cr (267.716 nm)	22.90	-0.0008 u (ppm)	43.6668
6/13/2024 12:44:12	R2404735-001L 5X	Cu (327.395 nm)	15.75	0.0029 (ppm)	103.1886
6/13/2024 12:44:12	R2404735-001L 5X	Fe (234.350 nm)	3.75	0.0241 (ppm)	211.4071
6/13/2024 12:44:12	R2404735-001L 5X	K (766.491 nm)	1.15	0.9249 (ppm)	2061.6088
6/13/2024 12:44:12	R2404735-001L 5X	Mg (279.078 nm)	0.09	26.2531 (ppm)	64613.0231
6/13/2024 12:44:12	R2404735-001L 5X	Mn (257.610 nm)	0.15	1.5467 (ppm)	330373.7492
6/13/2024 12:44:12	R2404735-001L 5X	Mo (202.032 nm)	86.30	-0.0007 u (ppm)	-1.8257
6/13/2024 12:44:12	R2404735-001L 5X	Na (588.995 nm)	2.05	0.6732 (ppm)	-4212.9593
6/13/2024 12:44:12	R2404735-001L 5X	Ni (230.299 nm)	18.34	0.0061 (ppm)	75.5175
6/13/2024 12:44:12	R2404735-001L 5X	Pb (220.353 nm)	9.38	0.0345 (ppm)	82.3446
6/13/2024 12:44:12	R2404735-001L 5X	Sb (217.582 nm)	> 100.00	-0.0014 u (ppm)	-3.4588
6/13/2024 12:44:12	R2404735-001L 5X	Se (196.026 nm)	61.77	0.0047 (ppm)	4.9503
6/13/2024 12:44:12	R2404735-001L 5X	Sn (189.925 nm)	99.86	-0.0044 u (ppm)	-1.5483
6/13/2024 12:44:12	R2404735-001L 5X	Sr (216.596 nm)	0.32	0.2759 (ppm)	2521.8412
6/13/2024 12:44:12	R2404735-001L 5X	Ti (336.122 nm)	7.98	0.0026 (ppm)	195.4334
6/13/2024 12:44:12	R2404735-001L 5X	Tl (190.794 nm)	> 100.00	-0.0048 u (ppm)	-2.6161
6/13/2024 12:44:12	R2404735-001L 5X	V (292.401 nm)	14.59	0.0014 (ppm)	63.8154
6/13/2024 12:44:12	R2404735-001L 5X	Y (360.074 nm)	0.09	1.00 (Ratio)	461329.37
6/13/2024 12:44:12	R2404735-001L 5X	Y_R (360.074 nm)	0.09	0.99 (Ratio)	461070.55
6/13/2024 12:44:12	R2404735-001L 5X	Zn (213.857 nm)	0.40	0.9681 (ppm)	29386.3634
6/13/2024 12:47:25	Continuing Calibration Verification1	Ag (328.068 nm)	0.49	0.5160 (ppm)	25406.2709
6/13/2024 12:47:25	Continuing Calibration Verification1	Al (237.312 nm)	0.83	10.4115 (ppm)	13254.3740
6/13/2024 12:47:25	Continuing Calibration Verification1	As (188.980 nm)	0.08	0.9895 (ppm)	957.8234
6/13/2024 12:47:25	Continuing Calibration Verification1	B (249.772 nm)	0.98	2.5802 (ppm)	86581.1253
6/13/2024 12:47:25	Continuing Calibration Verification1	Ba (230.424 nm)	0.71	10.1535 (ppm)	271901.8645
6/13/2024 12:47:25	Continuing Calibration Verification1	Be (313.107 nm)	0.55	0.2557 (ppm)	348531.9100
6/13/2024 12:47:25	Continuing Calibration Verification1	Ca (317.933 nm)	0.50	26.0103 (ppm)	969259.5184
6/13/2024 12:47:25	Continuing Calibration Verification1	Cd (214.439 nm)	0.42	0.4966 (ppm)	12614.5542
6/13/2024 12:47:25	Continuing Calibration Verification1	Co (230.786 nm)	0.46	2.4914 (ppm)	24474.8981
6/13/2024 12:47:25	Continuing Calibration Verification1	Cr (267.716 nm)	0.79	0.5091 (ppm)	14662.6454
6/13/2024 12:47:25	Continuing Calibration Verification1	Cu (327.395 nm)	0.65	1.3258 (ppm)	46547.4126
6/13/2024 12:47:25	Continuing Calibration Verification1	Fe (234.350 nm)	0.76	4.9896 (ppm)	34539.6260
6/13/2024 12:47:25	Continuing Calibration Verification1	K (766.491 nm)	0.85	26.0950 (ppm)	59051.5420
6/13/2024 12:47:25	Continuing Calibration Verification1	Mg (279.078 nm)	0.45	25.2866 (ppm)	62234.7749

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/13/2024 12:47:25	Continuing Calibration Verification1	Mn (257.610 nm)	0.88	0.7381 (ppm)	157672.0325
6/13/2024 12:47:25	Continuing Calibration Verification1	Mo (202.032 nm)	2.01	2.5992 (ppm)	11281.5442
6/13/2024 12:47:25	Continuing Calibration Verification1	Na (588.995 nm)	0.83	26.1388 (ppm)	747981.2100
6/13/2024 12:47:25	Continuing Calibration Verification1	Ni (230.299 nm)	0.69	2.0807 (ppm)	18127.7464
6/13/2024 12:47:25	Continuing Calibration Verification1	Pb (220.353 nm)	0.49	0.5033 (ppm)	1170.8677
6/13/2024 12:47:25	Continuing Calibration Verification1	Sb (217.582 nm)	0.71	4.8902 (ppm)	4076.4708
6/13/2024 12:47:25	Continuing Calibration Verification1	Se (196.026 nm)	1.76	0.4906 (ppm)	337.4745
6/13/2024 12:47:25	Continuing Calibration Verification1	Sn (189.925 nm)	1.04	5.0939 (ppm)	4711.9718
6/13/2024 12:47:25	Continuing Calibration Verification1	Sr (216.596 nm)	0.77	2.4705 (ppm)	22447.3870
6/13/2024 12:47:25	Continuing Calibration Verification1	Ti (336.122 nm)	0.91	2.6177 (ppm)	368649.1875
6/13/2024 12:47:25	Continuing Calibration Verification1	Tl (190.794 nm)	0.88	1.0179 (ppm)	505.3296
6/13/2024 12:47:25	Continuing Calibration Verification1	V (292.401 nm)	0.92	2.6387 (ppm)	62867.4591
6/13/2024 12:47:25	Continuing Calibration Verification1	Y (360.074 nm)	0.36	0.99 (Ratio)	457160.42
6/13/2024 12:47:25	Continuing Calibration Verification1	Y_R (360.074 nm)	0.38	0.98 (Ratio)	456817.41
6/13/2024 12:47:25	Continuing Calibration Verification1	Zn (213.857 nm)	0.53	0.9804 (ppm)	29759.2772
6/13/2024 12:50:38	Continuing Calibration Blank1	Ag (328.068 nm)	42.93	0.0004 (ppm)	-64.6591
6/13/2024 12:50:38	Continuing Calibration Blank1	Al (237.312 nm)	> 100.00	0.0012 u (ppm)	75.3088
6/13/2024 12:50:38	Continuing Calibration Blank1	As (188.980 nm)	> 100.00	0.0019 u (ppm)	4.0308
6/13/2024 12:50:38	Continuing Calibration Blank1	B (249.772 nm)	85.77	0.0002 (ppm)	89.1868
6/13/2024 12:50:38	Continuing Calibration Blank1	Ba (230.424 nm)	55.66	0.0003 (ppm)	10.7051
6/13/2024 12:50:38	Continuing Calibration Blank1	Be (313.107 nm)	59.47	0.0000 (ppm)	-331.0975
6/13/2024 12:50:38	Continuing Calibration Blank1	Ca (317.933 nm)	8.93	-0.0016 u (ppm)	2122.5977
6/13/2024 12:50:38	Continuing Calibration Blank1	Cd (214.439 nm)	> 100.00	0.0000 u (ppm)	6.7370
6/13/2024 12:50:38	Continuing Calibration Blank1	Co (230.786 nm)	> 100.00	-0.0003 u (ppm)	-16.3881
6/13/2024 12:50:38	Continuing Calibration Blank1	Cr (267.716 nm)	41.70	-0.0003 u (ppm)	58.5037
6/13/2024 12:50:38	Continuing Calibration Blank1	Cu (327.395 nm)	85.01	-0.0003 u (ppm)	-6.7257
6/13/2024 12:50:38	Continuing Calibration Blank1	Fe (234.350 nm)	35.90	0.0041 (ppm)	73.3650
6/13/2024 12:50:38	Continuing Calibration Blank1	K (766.491 nm)	34.52	0.0190 (ppm)	10.4773
6/13/2024 12:50:38	Continuing Calibration Blank1	Mg (279.078 nm)	> 100.00	0.0013 (ppm)	13.5143
6/13/2024 12:50:38	Continuing Calibration Blank1	Mn (257.610 nm)	30.71	0.0000 (ppm)	15.8970
6/13/2024 12:50:38	Continuing Calibration Blank1	Mo (202.032 nm)	13.18	0.0159 (ppm)	69.9126
6/13/2024 12:50:38	Continuing Calibration Blank1	Na (588.995 nm)	19.85	-0.0188 u (ppm)	-24653.0573
6/13/2024 12:50:38	Continuing Calibration Blank1	Ni (230.299 nm)	29.45	-0.0008 u (ppm)	14.8104
6/13/2024 12:50:38	Continuing Calibration Blank1	Pb (220.353 nm)	35.08	-0.0013 u (ppm)	-0.7145
6/13/2024 12:50:38	Continuing Calibration Blank1	Sb (217.582 nm)	21.01	0.0310 (ppm)	23.5669
6/13/2024 12:50:38	Continuing Calibration Blank1	Se (196.026 nm)	> 100.00	-0.0020 u (ppm)	0.4140
6/13/2024 12:50:38	Continuing Calibration Blank1	Sn (189.925 nm)	38.45	0.0011 (ppm)	3.5097
6/13/2024 12:50:38	Continuing Calibration Blank1	Sr (216.596 nm)	> 100.00	-0.0001 u (ppm)	16.2802
6/13/2024 12:50:38	Continuing Calibration Blank1	Ti (336.122 nm)	19.61	0.0071 (ppm)	818.2067
6/13/2024 12:50:38	Continuing Calibration Blank1	Tl (190.794 nm)	> 100.00	0.0036 u (ppm)	1.5568
6/13/2024 12:50:38	Continuing Calibration Blank1	V (292.401 nm)	54.40	0.0007 (ppm)	47.9886
6/13/2024 12:50:38	Continuing Calibration Blank1	Y (360.074 nm)	0.51	1.03 (Ratio)	475289.38
6/13/2024 12:50:38	Continuing Calibration Blank1	Y_R (360.074 nm)	0.52	1.02 (Ratio)	474847.17
6/13/2024 12:50:38	Continuing Calibration Blank1	Zn (213.857 nm)	26.17	0.0001 (ppm)	4.0385
6/13/2024 12:53:51	Contract Required Detection Limit	Ag (328.068 nm)	1.42	0.0092 (ppm)	368.6511
6/13/2024 12:53:51	Contract Required Detection Limit	Al (237.312 nm)	0.33	0.1935 (ppm)	318.8386
6/13/2024 12:53:51	Contract Required Detection Limit	As (188.980 nm)	15.30	0.0195 (ppm)	20.9418
6/13/2024 12:53:51	Contract Required Detection Limit	B (249.772 nm)	0.52	0.2028 (ppm)	6882.8412
6/13/2024 12:53:51	Contract Required Detection Limit	Ba (230.424 nm)	1.27	0.2025 (ppm)	5427.5821
6/13/2024 12:53:51	Contract Required Detection Limit	Be (313.107 nm)	0.51	0.0052 (ppm)	6688.6816
6/13/2024 12:53:51	Contract Required Detection Limit	Ca (317.933 nm)	0.55	1.0507 (ppm)	41247.1826

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/13/2024 12:53:51	Contract Required Detection Limit	Cd (214.439 nm)	1.31	0.0102 (ppm)	264.7117
6/13/2024 12:53:51	Contract Required Detection Limit	Co (230.786 nm)	2.43	0.0502 (ppm)	479.5493
6/13/2024 12:53:51	Contract Required Detection Limit	Cr (267.716 nm)	4.07	0.0088 (ppm)	319.4393
6/13/2024 12:53:51	Contract Required Detection Limit	Cu (327.395 nm)	1.70	0.0249 (ppm)	877.7373
6/13/2024 12:53:51	Contract Required Detection Limit	Fe (234.350 nm)	0.36	0.1045 (ppm)	767.3356
6/13/2024 12:53:51	Contract Required Detection Limit	K (766.491 nm)	1.35	1.0237 (ppm)	2285.2999
6/13/2024 12:53:51	Contract Required Detection Limit	Mg (279.078 nm)	0.49	1.0154 (ppm)	2508.7713
6/13/2024 12:53:51	Contract Required Detection Limit	Mn (257.610 nm)	0.57	0.0140 (ppm)	2989.3587
6/13/2024 12:53:51	Contract Required Detection Limit	Mo (202.032 nm)	6.71	0.0275 (ppm)	120.4270
6/13/2024 12:53:51	Contract Required Detection Limit	Na (588.995 nm)	0.26	1.0307 (ppm)	6345.1497
6/13/2024 12:53:51	Contract Required Detection Limit	Ni (230.299 nm)	3.10	0.0353 (ppm)	329.3913
6/13/2024 12:53:51	Contract Required Detection Limit	Pb (220.353 nm)	24.64	0.0093 (ppm)	24.0089
6/13/2024 12:53:51	Contract Required Detection Limit	Sb (217.582 nm)	5.79	0.0717 (ppm)	57.4693
6/13/2024 12:53:51	Contract Required Detection Limit	Se (196.026 nm)	56.63	0.0084 (ppm)	7.5382
6/13/2024 12:53:51	Contract Required Detection Limit	Sn (189.925 nm)	1.15	0.4987 (ppm)	463.5195
6/13/2024 12:53:51	Contract Required Detection Limit	Sr (216.596 nm)	1.56	0.0964 (ppm)	892.3761
6/13/2024 12:53:51	Contract Required Detection Limit	Ti (336.122 nm)	0.34	0.0509 (ppm)	6999.8180
6/13/2024 12:53:51	Contract Required Detection Limit	Tl (190.794 nm)	46.11	0.0174 (ppm)	8.3958
6/13/2024 12:53:51	Contract Required Detection Limit	V (292.401 nm)	0.96	0.0520 (ppm)	1270.1743
6/13/2024 12:53:51	Contract Required Detection Limit	Y (360.074 nm)	0.11	1.01 (Ratio)	467234.37
6/13/2024 12:53:51	Contract Required Detection Limit	Y_R (360.074 nm)	0.11	1.01 (Ratio)	466723.79
6/13/2024 12:53:51	Contract Required Detection Limit	Zn (213.857 nm)	0.87	0.0174 (ppm)	529.5819
6/13/2024 12:57:05	Interference Check Solution A	Ag (328.068 nm)	99.11	0.0003 (ppm)	-70.5955
6/13/2024 12:57:05	Interference Check Solution A	Al (237.312 nm)	0.79	262.1523 o (ppm)	331947.4845
6/13/2024 12:57:05	Interference Check Solution A	As (188.980 nm)	67.68	0.0032 (ppm)	5.2189
6/13/2024 12:57:05	Interference Check Solution A	B (249.772 nm)	0.28	0.0743 (ppm)	2574.9109
6/13/2024 12:57:05	Interference Check Solution A	Ba (230.424 nm)	> 100.00	0.0006 (ppm)	19.1251
6/13/2024 12:57:05	Interference Check Solution A	Be (313.107 nm)	12.99	0.0001 (ppm)	-171.1956
6/13/2024 12:57:05	Interference Check Solution A	Ca (317.933 nm)	0.98	241.7599 o (ppm)	8990950.0134
6/13/2024 12:57:05	Interference Check Solution A	Cd (214.439 nm)	26.75	-0.0008 u (ppm)	-13.1320
6/13/2024 12:57:05	Interference Check Solution A	Co (230.786 nm)	59.53	-0.0020 u (ppm)	-33.0576
6/13/2024 12:57:05	Interference Check Solution A	Cr (267.716 nm)	5.11	0.0040 (ppm)	182.4000
6/13/2024 12:57:05	Interference Check Solution A	Cu (327.395 nm)	9.31	0.0073 (ppm)	259.8243
6/13/2024 12:57:05	Interference Check Solution A	Fe (234.350 nm)	0.77	94.0973 o (ppm)	650570.1414
6/13/2024 12:57:05	Interference Check Solution A	K (766.491 nm)	17.05	0.0675 (ppm)	120.1891
6/13/2024 12:57:05	Interference Check Solution A	Mg (279.078 nm)	0.64	252.9778 o (ppm)	622530.7515
6/13/2024 12:57:05	Interference Check Solution A	Mn (257.610 nm)	4.69	0.0011 (ppm)	236.2930
6/13/2024 12:57:05	Interference Check Solution A	Mo (202.032 nm)	44.17	0.0019 (ppm)	9.3429
6/13/2024 12:57:05	Interference Check Solution A	Na (588.995 nm)	4.63	-0.0851 u (ppm)	-26613.6765
6/13/2024 12:57:05	Interference Check Solution A	Ni (230.299 nm)	> 100.00	-0.0001 u (ppm)	21.6082
6/13/2024 12:57:05	Interference Check Solution A	Pb (220.353 nm)	45.72	-0.0019 u (ppm)	-1.9737
6/13/2024 12:57:05	Interference Check Solution A	Sb (217.582 nm)	> 100.00	0.0015 u (ppm)	-1.0734
6/13/2024 12:57:05	Interference Check Solution A	Se (196.026 nm)	> 100.00	0.0009 u (ppm)	2.3770
6/13/2024 12:57:05	Interference Check Solution A	Sn (189.925 nm)	14.63	-0.0040 u (ppm)	-1.2587
6/13/2024 12:57:05	Interference Check Solution A	Sr (216.596 nm)	3.25	0.0134 (ppm)	139.0724
6/13/2024 12:57:05	Interference Check Solution A	Ti (336.122 nm)	7.48	0.0018 (ppm)	83.2644
6/13/2024 12:57:05	Interference Check Solution A	Tl (190.794 nm)	54.72	-0.0046 u (ppm)	-2.5075
6/13/2024 12:57:05	Interference Check Solution A	V (292.401 nm)	6.31	0.0042 (ppm)	132.4727
6/13/2024 12:57:05	Interference Check Solution A	Y (360.074 nm)	0.38	0.93 (Ratio)	431591.11
6/13/2024 12:57:05	Interference Check Solution A	Y_R (360.074 nm)	0.38	0.93 (Ratio)	431321.07
6/13/2024 12:57:05	Interference Check Solution A	Zn (213.857 nm)	1.43	0.0100 (ppm)	305.0157

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/13/2024 13:00:18	Interference Check Solution AB	Ag (328.068 nm)	0.09	0.2047 (ppm)	10027.4143
6/13/2024 13:00:18	Interference Check Solution AB	Al (237.312 nm)	0.51	263.3418 o (ppm)	333453.3034
6/13/2024 13:00:18	Interference Check Solution AB	As (188.980 nm)	5.61	0.1028 (ppm)	101.4013
6/13/2024 13:00:18	Interference Check Solution AB	B (249.772 nm)	0.26	0.0723 (ppm)	2506.1390
6/13/2024 13:00:18	Interference Check Solution AB	Ba (230.424 nm)	0.87	0.5249 (ppm)	14059.8934
6/13/2024 13:00:18	Interference Check Solution AB	Be (313.107 nm)	0.45	0.5223 (ppm)	712203.9029
6/13/2024 13:00:18	Interference Check Solution AB	Ca (317.933 nm)	0.46	243.5181 o (ppm)	9056319.9484
6/13/2024 13:00:18	Interference Check Solution AB	Cd (214.439 nm)	0.44	0.9868 (ppm)	25058.2874
6/13/2024 13:00:18	Interference Check Solution AB	Co (230.786 nm)	0.11	0.4891 (ppm)	4793.9127
6/13/2024 13:00:18	Interference Check Solution AB	Cr (267.716 nm)	0.42	0.5148 (ppm)	14826.9004
6/13/2024 13:00:18	Interference Check Solution AB	Cu (327.395 nm)	0.72	0.5876 (ppm)	20632.9378
6/13/2024 13:00:18	Interference Check Solution AB	Fe (234.350 nm)	0.41	94.9593 o (ppm)	656529.9111
6/13/2024 13:00:18	Interference Check Solution AB	K (766.491 nm)	86.80	0.0442 u (ppm)	67.4447
6/13/2024 13:00:18	Interference Check Solution AB	Mg (279.078 nm)	0.38	254.5082 o (ppm)	626296.5714
6/13/2024 13:00:18	Interference Check Solution AB	Mn (257.610 nm)	0.40	0.4948 (ppm)	105698.4341
6/13/2024 13:00:18	Interference Check Solution AB	Mo (202.032 nm)	> 100.00	-0.0004 u (ppm)	-0.8346
6/13/2024 13:00:18	Interference Check Solution AB	Na (588.995 nm)	3.09	-0.1037 u (ppm)	-27161.8863
6/13/2024 13:00:18	Interference Check Solution AB	Ni (230.299 nm)	0.60	1.0043 (ppm)	8761.4045
6/13/2024 13:00:18	Interference Check Solution AB	Pb (220.353 nm)	9.43	0.0479 (ppm)	113.5775
6/13/2024 13:00:18	Interference Check Solution AB	Sb (217.582 nm)	1.65	0.6265 (ppm)	520.2492
6/13/2024 13:00:18	Interference Check Solution AB	Se (196.026 nm)	9.47	0.0480 (ppm)	34.5895
6/13/2024 13:00:18	Interference Check Solution AB	Sn (189.925 nm)	> 100.00	-0.0021 u (ppm)	0.5635
6/13/2024 13:00:18	Interference Check Solution AB	Sr (216.596 nm)	8.22	0.0132 (ppm)	137.1508
6/13/2024 13:00:18	Interference Check Solution AB	Ti (336.122 nm)	9.74	0.0010 (ppm)	-29.6671
6/13/2024 13:00:18	Interference Check Solution AB	Tl (190.794 nm)	4.12	0.1103 (ppm)	54.5241
6/13/2024 13:00:18	Interference Check Solution AB	V (292.401 nm)	0.44	0.5428 (ppm)	12957.4296
6/13/2024 13:00:18	Interference Check Solution AB	Y (360.074 nm)	0.11	0.93 (Ratio)	429515.03
6/13/2024 13:00:18	Interference Check Solution AB	Y_R (360.074 nm)	0.10	0.93 (Ratio)	429280.07
6/13/2024 13:00:18	Interference Check Solution AB	Zn (213.857 nm)	0.31	1.0135 (ppm)	30762.9269
6/13/2024 13:03:32	Continuing Calibration Verification1	Ag (328.068 nm)	0.58	0.5127 (ppm)	25244.2952
6/13/2024 13:03:32	Continuing Calibration Verification1	Al (237.312 nm)	0.48	10.3851 (ppm)	13221.0032
6/13/2024 13:03:32	Continuing Calibration Verification1	As (188.980 nm)	1.29	0.9766 (ppm)	945.3290
6/13/2024 13:03:32	Continuing Calibration Verification1	B (249.772 nm)	0.62	2.5667 (ppm)	86127.4203
6/13/2024 13:03:32	Continuing Calibration Verification1	Ba (230.424 nm)	0.35	10.1227 (ppm)	271079.3748
6/13/2024 13:03:32	Continuing Calibration Verification1	Be (313.107 nm)	0.64	0.2549 (ppm)	347387.4399
6/13/2024 13:03:32	Continuing Calibration Verification1	Ca (317.933 nm)	0.21	25.7738 (ppm)	960467.4423
6/13/2024 13:03:32	Continuing Calibration Verification1	Cd (214.439 nm)	0.49	0.4940 (ppm)	12548.8701
6/13/2024 13:03:32	Continuing Calibration Verification1	Co (230.786 nm)	0.62	2.4696 (ppm)	24260.9733
6/13/2024 13:03:32	Continuing Calibration Verification1	Cr (267.716 nm)	0.61	0.5047 (ppm)	14536.7823
6/13/2024 13:03:32	Continuing Calibration Verification1	Cu (327.395 nm)	0.61	1.3179 (ppm)	46269.7225
6/13/2024 13:03:32	Continuing Calibration Verification1	Fe (234.350 nm)	0.37	5.0039 (ppm)	34638.3506
6/13/2024 13:03:32	Continuing Calibration Verification1	K (766.491 nm)	0.41	25.9033 (ppm)	58617.5423
6/13/2024 13:03:32	Continuing Calibration Verification1	Mg (279.078 nm)	0.59	25.1774 (ppm)	61966.0702
6/13/2024 13:03:32	Continuing Calibration Verification1	Mn (257.610 nm)	0.55	0.7320 (ppm)	156358.7486
6/13/2024 13:03:32	Continuing Calibration Verification1	Mo (202.032 nm)	1.82	2.5907 (ppm)	11244.6156
6/13/2024 13:03:32	Continuing Calibration Verification1	Na (588.995 nm)	0.50	25.8779 (ppm)	740275.7915
6/13/2024 13:03:32	Continuing Calibration Verification1	Ni (230.299 nm)	0.61	2.0672 (ppm)	18010.7330
6/13/2024 13:03:32	Continuing Calibration Verification1	Pb (220.353 nm)	0.91	0.5012 (ppm)	1165.9980
6/13/2024 13:03:32	Continuing Calibration Verification1	Sb (217.582 nm)	0.88	4.7960 (ppm)	3997.8735
6/13/2024 13:03:32	Continuing Calibration Verification1	Se (196.026 nm)	0.99	0.4800 (ppm)	330.2127
6/13/2024 13:03:32	Continuing Calibration Verification1	Sn (189.925 nm)	1.25	5.0515 (ppm)	4672.8469

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity
6/13/2024 13:03:32	Continuing Calibration Verification1	Sr (216.596 nm)	0.52	2.4493 (ppm)	22254.6580
6/13/2024 13:03:32	Continuing Calibration Verification1	Ti (336.122 nm)	0.94	2.6071 (ppm)	367155.8685
6/13/2024 13:03:32	Continuing Calibration Verification1	Tl (190.794 nm)	0.63	1.0070 (ppm)	499.9048
6/13/2024 13:03:32	Continuing Calibration Verification1	V (292.401 nm)	0.54	2.6250 (ppm)	62539.8686
6/13/2024 13:03:32	Continuing Calibration Verification1	Y (360.074 nm)	0.22	0.99 (Ratio)	457299.83
6/13/2024 13:03:32	Continuing Calibration Verification1	Y_R (360.074 nm)	0.22	0.98 (Ratio)	456759.02
6/13/2024 13:03:32	Continuing Calibration Verification1	Zn (213.857 nm)	0.63	0.9717 (ppm)	29495.3957
6/13/2024 13:06:45	Continuing Calibration Blank1	Ag (328.068 nm)	25.37	0.0004 (ppm)	-63.2034
6/13/2024 13:06:45	Continuing Calibration Blank1	Al (237.312 nm)	> 100.00	0.0083 u (ppm)	84.3594
6/13/2024 13:06:45	Continuing Calibration Blank1	As (188.980 nm)	> 100.00	0.0026 (ppm)	4.6981
6/13/2024 13:06:45	Continuing Calibration Blank1	B (249.772 nm)	> 100.00	0.0001 u (ppm)	85.9051
6/13/2024 13:06:45	Continuing Calibration Blank1	Ba (230.424 nm)	55.51	0.0003 (ppm)	12.1023
6/13/2024 13:06:45	Continuing Calibration Blank1	Be (313.107 nm)	34.64	0.0000 (ppm)	-327.3126
6/13/2024 13:06:45	Continuing Calibration Blank1	Ca (317.933 nm)	14.04	-0.0011 u (ppm)	2143.4590
6/13/2024 13:06:45	Continuing Calibration Blank1	Cd (214.439 nm)	> 100.00	0.0000 u (ppm)	6.3578
6/13/2024 13:06:45	Continuing Calibration Blank1	Co (230.786 nm)	> 100.00	-0.0003 u (ppm)	-17.0191
6/13/2024 13:06:45	Continuing Calibration Blank1	Cr (267.716 nm)	> 100.00	-0.0003 u (ppm)	57.8501
6/13/2024 13:06:45	Continuing Calibration Blank1	Cu (327.395 nm)	> 100.00	0.0000 u (ppm)	2.8408
6/13/2024 13:06:45	Continuing Calibration Blank1	Fe (234.350 nm)	11.55	0.0064 (ppm)	89.1043
6/13/2024 13:06:45	Continuing Calibration Blank1	K (766.491 nm)	92.72	0.0142 (ppm)	-0.4429
6/13/2024 13:06:45	Continuing Calibration Blank1	Mg (279.078 nm)	90.82	0.0021 (ppm)	15.3798
6/13/2024 13:06:45	Continuing Calibration Blank1	Mn (257.610 nm)	66.35	0.0001 (ppm)	20.9873
6/13/2024 13:06:45	Continuing Calibration Blank1	Mo (202.032 nm)	8.63	0.0155 (ppm)	68.4300
6/13/2024 13:06:45	Continuing Calibration Blank1	Na (588.995 nm)	6.55	-0.0256 u (ppm)	-24854.9895
6/13/2024 13:06:45	Continuing Calibration Blank1	Ni (230.299 nm)	> 100.00	0.0001 u (ppm)	23.3404
6/13/2024 13:06:45	Continuing Calibration Blank1	Pb (220.353 nm)	35.07	0.0028 (ppm)	8.8514
6/13/2024 13:06:45	Continuing Calibration Blank1	Sb (217.582 nm)	7.55	0.0339 (ppm)	26.0130
6/13/2024 13:06:45	Continuing Calibration Blank1	Se (196.026 nm)	> 100.00	0.0012 u (ppm)	2.5868
6/13/2024 13:06:45	Continuing Calibration Blank1	Sn (189.925 nm)	42.56	-0.0019 u (ppm)	0.7303
6/13/2024 13:06:45	Continuing Calibration Blank1	Sr (216.596 nm)	> 100.00	-0.0001 u (ppm)	15.7315
6/13/2024 13:06:45	Continuing Calibration Blank1	Ti (336.122 nm)	19.89	0.0063 (ppm)	716.3410
6/13/2024 13:06:45	Continuing Calibration Blank1	Tl (190.794 nm)	59.94	0.0026 (ppm)	1.0329
6/13/2024 13:06:45	Continuing Calibration Blank1	V (292.401 nm)	22.58	0.0010 (ppm)	55.3354
6/13/2024 13:06:45	Continuing Calibration Blank1	Y (360.074 nm)	0.41	1.03 (Ratio)	474332.05
6/13/2024 13:06:45	Continuing Calibration Blank1	Y_R (360.074 nm)	0.42	1.02 (Ratio)	473704.18
6/13/2024 13:06:45	Continuing Calibration Blank1	Zn (213.857 nm)	23.05	0.0002 (ppm)	7.1628

Ag (328.068 nm)
Intensity = 49402.72747747 * Concentration - 84.97380150
Correlation coefficient: 0.99996

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-84.9738	0.0000	0.0000	N/A
Standard 2	391.1805	0.0100	0.0096	3.6178
Standard 3	878.9170	0.0200	0.0195	2.4456
Standard 4	4871.1291	0.1000	0.1003	0.3204
Standard 5	9592.9603	0.2000	0.1959	2.0506
Standard 6	50466.8599	1.0000	1.0233	2.3260

As (188.980 nm)
Intensity = 965.79141262 * Concentration + 2.15566667
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	2.1557	0.0000	0.0000	N/A
Standard 1	7.6979	0.0100	0.0057	42.6150
Standard 2	19.1754	0.0200	0.0176	11.8873
Standard 3	38.1653	0.0400	0.0373	6.7871
Standard 4	198.3320	0.2000	0.2031	1.5625
Standard 5	384.0649	0.4000	0.3954	1.1409
Standard 6	1955.7677	2.0000	2.0228	1.1405

B (249.772 nm)
Intensity = 33522.93147383 * Concentration + 83.62294638
Correlation coefficient: 0.99998

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	83.6229	0.0000	0.0000	N/A
Standard 2	3360.6687	0.1000	0.0978	2.2447
Standard 3	6670.1399	0.2000	0.1965	1.7610
Standard 4	34275.7740	1.0000	1.0200	1.9963
Standard 5	66923.0410	2.0000	1.9938	0.3079
Standard 6	344195.1396	10.0000	10.2650	2.6496

Ba (230.424 nm)
Intensity = 26778.84267058 * Concentration + 3.97054177
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	3.9705	0.0000	0.0000	N/A
Standard 1	539.2012	0.0200	0.0200	0.0646
Standard 2	5410.1662	0.2000	0.2019	0.9415
Standard 3	10799.1952	0.4000	0.4031	0.7813
Standard 4	55242.9185	2.0000	2.0628	3.1392
Standard 5	107069.2342	4.0000	3.9981	0.0468
Standard 6	535779.2061	20.0000	20.0074	0.0370

Be (313.107 nm)
Intensity = 1364245.38985882 * Concentration - 354.97655703
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-354.9766	0.0000	0.0000	N/A
Standard 1	3603.1934	0.0030	0.0029	3.2879
Standard 2	6481.0775	0.0050	0.0050	0.2174
Standard 3	13384.9537	0.0100	0.0101	0.7145
Standard 4	70393.0438	0.0500	0.0519	3.7174
Standard 5	137110.6730	0.1000	0.1008	0.7631
Standard 6	694767.6565	0.5000	0.5095	1.9058

Cd (214.439 nm)
Intensity = 25386.50772742 * Concentration + 6.71897718
Correlation coefficient: 1.00000

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	6.7190	0.0000	0.0000	N/A
Standard 1	139.1994	0.0050	0.0052	4.3708
Standard 2	260.5559	0.0100	0.0100	0.0111
Standard 3	521.4109	0.0200	0.0203	1.3712
Standard 4	2595.3420	0.1000	0.1020	1.9685
Standard 5	5029.3187	0.2000	0.1978	1.0774
Standard 6	25315.3843	1.0000	0.9969	0.3066

Co (230.786 nm)
Intensity = 9829.25603301 * Concentration - 13.69554461
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-13.6955	0.0000	0.0000	N/A
Standard 2	478.0195	0.0500	0.0500	0.0513
Standard 3	969.6666	0.1000	0.1000	0.0444
Standard 4	5009.1192	0.5000	0.5110	2.2013
Standard 5	9640.5065	1.0000	0.9822	1.7809
Standard 6	48444.7780	5.0000	4.9300	1.3995

Cr (267.716 nm)
Intensity = 28671.92205535 * Concentration + 66.29862084
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	66.2986	0.0000	0.0000	N/A
Standard 2	353.7773	0.0100	0.0100	0.2649
Standard 3	642.1856	0.0200	0.0201	0.4270
Standard 4	3008.5985	0.1000	0.1026	2.6196
Standard 5	5727.4179	0.2000	0.1974	1.2776
Standard 6	28591.7702	1.0000	0.9949	0.5108

Cu (327.395 nm)
Intensity = 35107.53601897 * Concentration + 2.35273386
Correlation coefficient: 0.99993

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	2.3527	0.0000	0.0000	N/A
Standard 1	346.5224	0.0100	0.0098	1.9670
Standard 2	848.3205	0.0250	0.0241	3.6141
Standard 3	1713.5146	0.0500	0.0487	2.5188
Standard 4	8915.3510	0.2500	0.2539	1.5508
Standard 5	17470.8685	0.5000	0.4976	0.4857
Standard 6	92887.8906	2.5000	2.6457	5.8297

K (766.491 nm)
Intensity = 2264.19565268 * Concentration - 32.64395060
Correlation coefficient: 0.99995

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-32.6440	0.0000	0.0000	N/A
Standard 2	1042.1687	0.5000	0.4747	5.0601
Standard 3	2191.2828	1.0000	0.9822	1.7785
Standard 4	11501.8256	5.0000	5.0943	1.8858
Standard 5	22547.4495	10.0000	9.9727	0.2732
Standard 6	118822.2359	50.0000	52.4932	4.9864

Mn (257.610 nm)
Intensity = 213600.03123891 * Concentration + 7.25987008
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	7.2599	0.0000	0.0000	N/A
Standard 1	2185.4443	0.0100	0.0102	1.9749
Standard 2	3243.1377	0.0150	0.0151	0.9949
Standard 3	6439.8110	0.0300	0.0301	0.3831
Standard 4	32830.0498	0.1500	0.1537	2.4431
Standard 5	63366.5641	0.3000	0.2966	1.1247
Standard 6	315971.4816	1.5000	1.4792	1.3845

Mo (202.032 nm)
Intensity = 4339.97084543 * Concentration + 1.00258271
Correlation coefficient: 0.99998

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	1.0026	0.0000	0.0000	N/A
Standard 1	104.1643	0.0250	0.0238	4.9194
Standard 2	205.2635	0.0500	0.0471	5.8699
Standard 3	415.4872	0.1000	0.0955	4.4960
Standard 4	2176.3428	0.5000	0.5012	0.2468
Standard 5	4265.7098	1.0000	0.9827	1.7342
Standard 6	21953.5336	5.0000	5.0582	1.1644

Na (588.995 nm)
Intensity = 29537.70777600 * Concentration - 24098.58873993
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-24098.5887	0.0000	0.0000	N/A
Standard 2	-9477.6465	0.5000	0.4950	1.0015
Standard 3	5716.4946	1.0000	1.0094	0.9391

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Standard 4	129152.1346	5.0000	5.1883	3.7662
Standard 5	272658.0196	10.0000	10.0467	0.4670
Standard 6	1453175.0480	50.0000	50.0131	0.0263

Ni (230.299 nm)
Intensity = 8701.83645853 * Concentration + 22.11899060
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	22.1190	0.0000	0.0000	N/A
Standard 2	367.8415	0.0400	0.0397	0.6754
Standard 3	716.0079	0.0800	0.0797	0.3244
Standard 4	3608.3072	0.4000	0.4121	3.0296
Standard 5	6911.1498	0.8000	0.7917	1.0406
Standard 6	34789.7338	4.0000	3.9954	0.1141

Pb (220.353 nm)
Intensity = 2321.61531807 * Concentration + 2.34354571
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	2.3435	0.0000	0.0000	N/A
Standard 1	14.4756	0.0050	0.0052	4.5139
Standard 2	25.9024	0.0100	0.0101	1.4763
Standard 3	50.7197	0.0200	0.0208	4.1864
Standard 4	238.7041	0.1000	0.1018	1.8087
Standard 5	459.6394	0.2000	0.1970	1.5134
Standard 6	2308.9340	1.0000	0.9935	0.6472

Sb (217.582 nm)
Intensity = 834.07260879 * Concentration - 2.29824428
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-2.2982	0.0000	0.0000	N/A
Standard 1	49.7152	0.0600	0.0624	3.9347
Standard 2	81.4974	0.1000	0.1005	0.4656
Standard 3	161.0599	0.2000	0.1959	2.0720
Standard 4	841.2172	1.0000	1.0113	1.1321
Standard 5	1636.8030	2.0000	1.9652	1.7411
Standard 6	8354.1823	10.0000	10.0189	0.1889

Se (196.026 nm)
Intensity = 684.24302323 * Concentration + 1.76321499
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	1.7632	0.0000	0.0000	N/A
Standard 2	5.5359	0.0100	0.0055	44.8631
Standard 3	14.3045	0.0200	0.0183	8.3562
Standard 4	68.9430	0.1000	0.0982	1.8188
Standard 5	136.7885	0.2000	0.1973	1.3324
Standard 6	686.0484	1.0000	1.0001	0.0062

Sn (189.925 nm)
Intensity = 924.54410507 * Concentration + 2.48222451
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	2.4822	0.0000	0.0000	N/A
Standard 2	92.9095	0.1000	0.0978	2.1926
Standard 3	184.4745	0.2000	0.1968	1.5773
Standard 4	961.2489	1.0000	1.0370	3.7016
Standard 5	1849.1331	2.0000	1.9974	0.1318
Standard 6	9185.2936	10.0000	9.9323	0.6774

Ti (336.122 nm)
Intensity = 140899.68974719 * Concentration - 177.28497925
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-177.2850	0.0000	0.0000	N/A
Standard 2	6525.1704	0.0500	0.0476	4.8620
Standard 3	13622.8350	0.1000	0.0979	2.0571
Standard 4	71919.8583	0.5000	0.5117	2.3383
Standard 5	140695.4840	1.0000	0.9998	0.0191
Standard 6	716648.9430	5.0000	5.0875	1.7499

V (292.401 nm)
Intensity = 23812.92065392 * Concentration + 31.46875974
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	31.4688	0.0000	0.0000	N/A
Standard 2	1226.3403	0.0500	0.0502	0.3549
Standard 3	2399.8510	0.1000	0.0995	0.5421
Standard 4	12259.7394	0.5000	0.5135	2.7028
Standard 5	23778.5424	1.0000	0.9972	0.2765
Standard 6	120850.4118	5.0000	5.0737	1.4734

Zn (213.857 nm)
Intensity = 30352.15895363 * Concentration + 1.51401290
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	1.5140	0.0000	0.0000	N/A
Standard 2	577.0795	0.0200	0.0190	5.1854
Standard 3	1180.4688	0.0400	0.0388	2.8937
Standard 4	6105.0154	0.2000	0.2011	0.5448
Standard 5	11841.3576	0.4000	0.3901	2.4794
Standard 6	60787.5765	2.0000	2.0027	0.1347

Fe (234.350 nm)
Intensity = 6913.32740467 * Concentration + 45.01295660
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	45.0130	0.0000	0.0000	N/A
Standard 2	722.8326	0.1000	0.0980	1.9546

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Standard 3	1402.5280	0.2000	0.1964	1.8190
Standard 4	7032.5955	1.0000	1.0107	1.0741
Standard 5	13583.3213	2.0000	1.9583	2.0854
Standard 6	68016.0569	10.0000	9.8319	1.6811

Mg (279.078 nm)
Intensity = 2460.77111574 * Concentration + 10.19983069
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	10.1998	0.0000	0.0000	N/A
Standard 2	1237.0897	0.5000	0.4986	0.2841
Standard 3	2470.9325	1.0000	1.0000	0.0016
Standard 4	12554.6087	5.0000	5.0978	1.9551
Standard 5	24304.2334	10.0000	9.8725	1.2747
Standard 6	121575.0364	50.0000	49.4011	1.1978

Sr (216.596 nm)
Intensity = 9079.22612743 * Concentration + 16.97102897
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	16.9710	0.0000	0.0000	N/A
Standard 2	467.9036	0.0500	0.0497	0.6672
Standard 3	916.3581	0.1000	0.0991	0.9401
Standard 4	4641.6495	0.5000	0.5094	1.8738
Standard 5	8956.4039	1.0000	0.9846	1.5397
Standard 6	44504.2526	5.0000	4.8999	2.0020

Al (237.312 nm)
Intensity = 1265.95713602 * Concentration + 73.85289741
Correlation coefficient: 0.99998

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	73.8529	0.0000	0.0000	N/A
Standard 1	196.3241	0.1000	0.0967	3.2580
Standard 2	310.3082	0.2000	0.1868	6.6101
Standard 3	553.8551	0.4000	0.3792	5.2096
Standard 4	2660.8170	2.0000	2.0435	2.1742
Standard 5	5151.2100	4.0000	4.0107	0.2672
Standard 6	26243.3670	20.0000	20.6717	3.3586

Ca (317.933 nm)
Intensity = 37180.55069790 * Concentration + 2182.52255833
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	2182.5226	0.0000	0.0000	N/A
Standard 2	20801.1898	0.5000	0.5008	0.1527
Standard 3	39561.1632	1.0000	1.0053	0.5328
Standard 4	193183.0175	5.0000	5.1371	2.7422
Standard 5	371610.5315	10.0000	9.9361	0.6394
Standard 6	1845653.6581	50.0000	49.5816	0.8368

Tl (190.794 nm)
Intensity = 496.68719195 * Concentration - 0.24429115
Correlation coefficient: 0.99996

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-0.2443	0.0000	0.0000	N/A
Standard 1	3.0354	0.0100	0.0066	33.9687
Standard 2	7.8490	0.0200	0.0163	18.5276
Standard 3	17.8933	0.0400	0.0365	8.7070
Standard 4	100.4048	0.2000	0.2026	1.3205
Standard 5	190.0321	0.4000	0.3831	4.2273
Standard 6	992.7725	2.0000	1.9993	0.0360

Preparation Information Benchsheet

Prep Run#: 439600 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/CDISTEFANO **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 6/6/24 10:26

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2406394-01	MB		50mL	6010C/Ag T, Al T, As D, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe D, Fe T, K T, Mg T, Mn D, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		HB:11 Well:E4 Temp:92.4C
2	RQ2406394-02	LCS		50mL	6010C/Ag T, Al T, As D, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe D, Fe T, K T, Mg T, Mn D, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/235403; 0.5000 mL/233429; 0.5000 mL/235516	On HB:18:15 HB Shutoff:4:15 Pipet/Repipettor:M340,MAI 00,M23
3	R2404674-001	OLN-RU009-F008	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		Tier IV
4	R2404674-002	OLN-FB001-B008	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
5	R2404674-004	OLN-RU010-F008	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
6	R2404674-005	OLN-RU015-F008	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
7	R2404674-006	OLN-RU019-F008	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
8	R2404674-007	OLN-RU020-F008	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
9	R2404674-008	OLN-RU021-F008	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
10	R2404674-009	OLN-RU027A-F008	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
11	R2404674-010	OLN-RU028-F008	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
12	R2404674-011	OLN-UA002-F008	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
13	RQ2406394-03	R2404674-011 MS	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear	0.5000 mL/233429; 0.5000 mL/235403; 0.5000 mL/235516	
14	RQ2406394-04	R2404674-011 DMS	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear	0.5000 mL/233429; 0.5000 mL/235403; 0.5000 mL/235516	
15	R2404674-012	OLN-WW18M-F008	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
16	R2404674-013	OLN-FD001-D008	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
17	R2404674-014	OLN-FB002-B008	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
18	R2404674-016	OLN-EB001-E008	.08	50mL	6010C/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
19	R2404694-001	SCA-PAR0039-01	.05	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		Tier IV
20	R2404694-002	SCA-PAR0039-02	.05	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
21	R2404694-003	SCA-PAR0039-03	.05	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 439600 **Prep WorkFlow:** MetDigAqlCP **Status:** Prepped
Team: Metals/CDISTEFANO **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 6/6/24 10:26

22	R2404694-004	SCA-PAR0039-04	.07	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	233429	Logbook Ref:	233429	Expires On:	07/31/2025	Lot #:	2400837-5
Name:	C Spike	Inventory ID	235403	Logbook Ref:	235403	Expires On:	11/18/2024		
Name:	Custom LCS STD B Metals	Inventory ID	235516	Logbook Ref:	235516	Expires On:	11/02/2024		

Preparation Materials

1:1 HCl Metals Grade 1:1 223283 (233826) Hot Block Cups 50mL Lot L223102601 (235558) Nitric Acid Metals Grade HNO3 233477 (233477)
Thermometer 461 (230831)

Preparation Steps

Step: Digestion
Started: 6/6/24 10:26
Finished: 6/7/24 14:09
By: CDISTEFANO
Comments

4674 (N) 6/17
4694 (N) 6/17

Comments: _____

Reviewed By: Nicole Mansen Date: 6/10/24

Chain of Custody

Relinquished By: _____ Date: 6/7/24
Received By: _____ Date: 6/7/24

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 439601
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 6/6/24 10:27

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2406395-01	MB		50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		HB:1 Well:E4 Temp:93.2C
2	RQ2406395-02	LCS		50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/233429; 0.5000 mL/235516; 0.5000 mL/235403	On HB:18:15 HB Shutoff:4:15 Pipet/Repipettor:M340,MA100,M23
3	R2404782-001	MW-8A	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
4	R2404782-002	MW-8C	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
5	RQ2406395-03	R2404782-002 MS	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear	0.5000 mL/233429; 0.5000 mL/235516; 0.5000 mL/235403	
6	RQ2406395-04	R2404782-002 DMS	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear	0.5000 mL/235516; 0.5000 mL/233429; 0.5000 mL/235403	
7	R2404782-003	MW-15C	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
8	R2404782-004	DUPE Y	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
9	R2404782-005	MW-15AA	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
10	R2404782-006	MW-9C	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
11	R2404782-007	MW-9AA	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
12	R2404782-008	MW-31S	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
13	R2404782-009	MW-31I	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
14	R2404782-010	MW-32S	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
15	R2404782-011	MW-32I	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
16	R2404782-012	MW-32D	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
17	R2404782-013	MW-31D	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
18	R2404782-014	MW-33I	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
19	R2404782-015	MW-33D	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
20	R2404850-001	SCA-PAR0042-01	.05	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		Tier IV

Preparation Information Benchsheet

Prep Run#: 439601 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/CDISTEFANO **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 6/6/24 10:27

21	R2404850-002	SCA-PAR0042-02	.05	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
22	R2404850-005	SCA-PAR0042-05	.05	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
23	R2404850-006	SCA-PAR0042-06	.05	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	233429	Logbook Ref:	233429	Expires On:	07/31/2025	Lot #:	2400837-5
Name:	C Spike	Inventory ID	235403	Logbook Ref:	235403	Expires On:	11/18/2024		
Name:	Custom LCS STD B Metals	Inventory ID	235516	Logbook Ref:	235516	Expires On:	11/02/2024		

Preparation Materials

1:1 HCl Metals Grade	1:1 223283 (233826)	Hot Block Cups	50mL Lot L223102601 (235558)	Nitric Acid Metals Grade HNO3 233477 (233477)
Thermometer	460 (230830)			

Preparation Steps

Step: Digestion
Started: 6/6/24 10:27
Finished: 6/7/24 14:16
By: CDISTEFANO
Comments

4782 6/21
4850 6/21

Comments: _____

Reviewed By: Nicole Mansen Date: 6/10/24

Chain of Custody

Relinquished By: _____ Date: 6/7/24
Received By: R-A01 Date: 6/7/24

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 439481
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigSICP
Prep Method: EPA 3050B

Status: Prepped
Prep Date/Time: 6/5/24 09:20

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2406268-01	MB		0.5g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	White-Coarse/Colorless-Clear		HB:12 Well:D3 Temp:91.9C/92.9C
2	RQ2406268-05	MB		0.5000g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Cu T, Pb T, Se T				50.00mL	White-Coarse/Colorless-Clear		Non-Aq Matrix
3	RQ2406268-02	LCS		0.5g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	White-Coarse/Colorless-Clear	0.5000 mL/235516; 0.5000 mL/235403; 0.5000 mL/233429	On HB:12:03-12:18,12:20-12:50,12:53-13:23,14:52-15:07,15:08-15:23 Pip:M340,MA100,M380,M38,M33,M23
4	RQ2406268-06	LCS		0.5000g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Cu T, Pb T, Se T				50.00mL	White-Coarse/Colorless-Clear	0.5000 mL/235403; 0.5000 mL/233429; 0.5000 mL/235516	Non-Aq Matrix
5	R2404703-001	Bulk Waste Solvents	.03	0.5300g	6010C/Cu T, Pb T				50.00mL	Red-Liquid/Colorless-Clear		
6	R2404704-001	Bulk Waste Solvents	.01	0.5200g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				50.00mL	Red-Liquid/Colorless-Clear		
7	R2404705-001	PGMEA Waste	.02	0.5500g	6010C/Cu T, Pb T				50.00mL	Red-Liquid/Colorless-Clear		
8	R2404731-001	OU12115B-060324-1100	.01	0.5400g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Grey-Medium/Yellow-Clear		Tier IV
9	RQ2406268-03	R2404731-001 MS	.01	0.5400g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Grey-Medium/Yellow-Clear	0.5000 mL/235516; 0.5000 mL/233429; 0.5000 mL/235403	
10	RQ2406268-04	R2404731-001 DMS	.01	0.5200g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Grey-Medium/Yellow-Clear	0.5000 mL/233429; 0.5000 mL/235403; 0.5000 mL/235516	
11	R2404731-002	4413-060324-0001	.01	0.5200g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				50.00mL	Grey-Medium/Yellow-Clear		
12	R2404750-001	End of Belt Press Sludge Composite	.02	0.5400g	6010C/As T, Cd T, Cr T, Cu T, K T, Mo T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
13	R2404750-002	Finished Compost Pile	.01	0.5500g	6010C/As T, Cd T, Cr T, Cu T, K T, Mo T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
14	R2404765-001	Filter Cake	.02	0.5400g	6010C/As T, Ba T, Cd T, Cr T, Cu T, K T, Mo T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		

Spiking Solutions

Name: Custom LCS STD A Metals Inventory ID 233429 Logbook Ref: 233429 Expires On: 07/31/2025 Lot #: 2400837-5

Preparation Information Benchsheet

Prep Run#: 439481
Team: Metals/CDISTEFANO
Prep WorkFlow: MetDigSICP
Prep Method:
Status: Prepped
Prep Date/Time: 6/5/24 09:20

Name:	C Spike	Inventory ID	235403	Logbook Ref:	235403	Expires On:	11/18/2024
Name:	Custom LCS STD B Metals	Inventory ID	235516	Logbook Ref:	235516	Expires On:	11/02/2024

Preparation Materials

1:1 HCl Metals Grade	1:1 223283 (233826)	1:1 Nitric Acid Metals Grade	1:1 233477 (234026)	Boiling Stones PTFE	226047 (226047)
Hot Block Cups	50mL Lot L223102601 (235558)	Hydrogen Peroxide 30% Reagent Grade H2O2	233709 (233709)	Nitric Acid Metals Grade HNO3	233477 (233477)
Thermometer	462 (230832)				

Preparation Steps

Step: Digestion
Started: 6/5/24 09:20
Finished: 6/5/24 16:34
By: CDISTEFANO
Comments

4703
4704
4705
] Non-Aq 6/14

4731 (IV) 6/21
4750 6/14
4765 6/14 Soils

Comments:

Reviewed By: Nicole Maassen Date: 6/10/24

Chain of Custody

Relinquished By: CD Date: 6/5/24
Received By: R. Gay Date: 6/5/24

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 439823 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/CDISTEFANO **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 6/11/24 11:46

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2406611-01	MB		50mL	6010C/Al T, As T, Ca T, Cd T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Pb T, Zn T	<2			50.00mL	Colorless-Clear		HB:11 Well:A3 Temp:92.4C
2	RQ2406611-02	LCS		50mL	6010C/Al T, As T, Ca T, Cd T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Pb T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/235516; 0.5000 mL/233429; 0.5000 mL/235734	On HB:17:08 HB Shutoff:3:08 Pipet/Repipettor:M340,MA100,M23
3	RQ2406611-03	DLCS		50mL	6010C/Al T, As T, Ca T, Cd T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Pb T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/235516; 0.5000 mL/233429; 0.5000 mL/235734	
4	R2404848-001	SW-1	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Cloudy		
5	R2404848-002	SW-5	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Tan-Cloudy/Colorless-Cloudy		
6	R2404848-003	SW-2	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
7	R2404848-004	SW-3	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
8	R2404848-005	SW-4	.04	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
9	R2404912-001	A+C	.02	50mL	6010C/Pb T, Zn T	<2			50.00mL	Colorless-Clear		
10	R2405000-001	Discharge #01	.02	50mL	6010C/Al T, Ca T, Fe T, Mg T, Pb T	<2			50.00mL	Colorless-Clear		
11	R2405005-001	SW-021 ReSample	.01	50mL	6010C/Fe T	<2			50.00mL	Yellow-Cloudy/Colorless-Cloudy		
12	R2405027-001	6-5-24 Steam genny blowdown water	.07	50mL	6010C/Cu T	<2			50.00mL	Colorless-Clear		
13	R2405081-001	Reservoir	.02	50mL	6010C/Ca T, Mg T, Na T	<2			50.00mL	Colorless-Clear		
14	R2405081-002	Cofferdam	.02	50mL	6010C/Ca T, Mg T, Na T	<2			50.00mL	Colorless-Clear		
15	R2405081-003	J124 Seep	.02	50mL	6010C/Ca T, Mg T, Na T	<2			50.00mL	Colorless-Cloudy/Colorless-Cloudy		
16	R2405081-004	Rt 87 Stream	.02	50mL	6010C/Ca T, Mg T, Na T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	233429	Logbook Ref:	233429	Expires On:	07/31/2025	Lot #: 2400837-5
Name:	Custom LCS STD B Metals	Inventory ID	235516	Logbook Ref:	235516	Expires On:	11/02/2024	
Name:	C Spike	Inventory ID	235734	Logbook Ref:	235734	Expires On:	11/18/2024	

Preparation Materials

1:1 HCl Metals Grade	1:1 223283 (233826)	Hot Block Cups	50mL Lot L223102601 (235558)	Nitric Acid Metals Grade HNO3 233477 (233477)
Thermometer	461 (230831)			

Preparation Information Benchsheet

Prep Run#: 439823
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 6/11/24 11:46

Preparation Steps

Step: Digestion
Started: 6/11/24 11:46
Finished: 6/12/24 15:48
By: CDISTEFANO
Comments

4848 6/21
4912 ~~6/18~~ 6/17
5000 6/18
5005 6/18
5027 6/18 (6010)
5081 6/14 * RUSH

Comments: _____

Reviewed By: Nicole Marsan Date: 6/12/24

Chain of Custody

Relinquished By: CD Date: 6/12/24
Received By: R-A01 Date: 6/12/24

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 439839
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigSICP
Prep Method: EPA 3050B

Status: Prepped
Prep Date/Time: 6/12/24 10:12

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2406616-01	MB		0.5g	6010C/Ag T, As T, Ba T, Be T, Cd T, Cr T, Cu T, K T, Mn T, Mo T, Ni T, Pb T, Se T, Zn T				50.00mL	White-Coarse/Colorless-Clear		HB:12 Well:B4 Temp:93.0C/93.3C
2	RQ2406616-02	LCS		0.5g	6010C/Ag T, As T, Ba T, Be T, Cd T, Cr T, Cu T, K T, Mn T, Mo T, Ni T, Pb T, Se T, Zn T				50.00mL	White-Coarse/Colorless-Clear	0.5000 mL/235516; 0.5000 mL/235734; 0.5000 mL/233429	On HB:11:55-12:10,12:11-12:41,12:45-13:15,15:05-15:20,15:23-15:38 Pip:M340,MA100,M380,M38,M33,M23
3	R2404865-003	Field #1 Soil	.02	0.5400g	6010C/As T, Cd T, Cr T, Cu T, K T, Mo T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
4	R2404867-003	Sludge	.02	0.5100g	6010C/As T, Cd T, Cr T, Cu T, K T, Mo T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
5	R2404867-004	Compost Pile 2024-3	.02	0.5300g	6010C/As T, Cd T, Cr T, Cu T, K T, Mo T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
6	R2404920-001	Part 360	.03	0.5300g	6010C/As T, Cd T, Cr T, Cu T, K T, Mo T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
7	R2404980-001	24009104-5224-01	.03	0.5400g	6010C/Ag T, As T, Ba T, Be T, Cd T, Cr T, Cu T, Mn T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		Tier IV
8	R2404980-002	24009104-5224-02	.03	0.5500g	6010C/Ag T, As T, Ba T, Be T, Cd T, Cr T, Cu T, Mn T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
9	R2404980-003	24009104-5224-03	.03	0.5400g	6010C/Ag T, As T, Ba T, Be T, Cd T, Cr T, Cu T, Mn T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
10	R2404980-004	24009104-5224-04	.03	0.5100g	6010C/Ag T, As T, Ba T, Be T, Cd T, Cr T, Cu T, Mn T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
11	R2404980-005	24009104-5224-05	.03	0.5200g	6010C/Ag T, As T, Ba T, Be T, Cd T, Cr T, Cu T, Mn T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
12	R2404980-006	24009104-5224-06	.03	0.5200g	6010C/Ag T, As T, Ba T, Be T, Cd T, Cr T, Cu T, Mn T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
13	RQ2406616-03	R2404980-006 MS	.03	0.5300g	6010C/Ag T, As T, Ba T, Be T, Cd T, Cr T, Cu T, Mn T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear	0.5000 mL/233429; 0.5000 mL/235516; 0.5000 mL/235734	
14	RQ2406616-04	R2404980-006 DMS	.03	0.5400g	6010C/Ag T, As T, Ba T, Be T, Cd T, Cr T, Cu T, Mn T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear	0.5000 mL/235734; 0.5000 mL/235516; 0.5000 mL/233429	
15	R2405041-001	800 Stockpile	.01	0.5400g	6010C/Cd T, Pb T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	233429	Logbook Ref:	233429	Expires On:	07/31/2025	Lot #: 2400837-5
Name:	Custom LCS STD B Metals	Inventory ID	235516	Logbook Ref:	235516	Expires On:	11/02/2024	
Name:	C Spike	Inventory ID	235734	Logbook Ref:	235734	Expires On:	11/18/2024	

Preparation Information Benchsheet

Prep Run#: 439839
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigSICP
Prep Method: EPA 3050B

Status: Prepped
Prep Date/Time: 6/12/24 10:12

Preparation Materials

1:1 HCl Metals Grade	1:1 223283 (233826)	1:1 Nitric Acid Metals Grade	1:1 235024 (235731)	Boiling Stones PTFE	226047 (226047)
Hot Block Cups	50mL Lot L223102601 (235558)	Hydrogen Peroxide 30% Reagent Grade H2O2	233709 (233709)	Nitric Acid Metals Grade HNO3	233477 (233477)
Thermometer	462 (230832)				

Preparation Steps

Step: Digestion
Started: 6/12/24 10:12
Finished: 6/12/24 16:22
By: CDISTEFANO
Comments

4805 6/17
4867 6/17
4920 6/17
4980 (IV) 6/24
5041 6/21

50:15

Comments: _____

Reviewed By: Nicole Marsen Date: 6/12/24

Chain of Custody

Relinquished By: CD Date: 6/12/24
Received By: R-401 Date: 6/12/24

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 439709
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigLP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 6/11/24 12:40

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2406448-01	MB	.02	50mL	6010C/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP				50.00mL	Colorless-Clear		
2	RQ2406482-01	MB		50mL	6010C/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP				50.00mL	Colorless-Clear		HB:1 Well:A3 Temp:92.0C
3	RQ2406482-02	LCS		50mL	6010C/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP				50.00mL	Colorless-Clear	1.0000 mL/235099	On HB:17:08 HB Shutoff:3:08 Pipet/Repipettor:M340,MA100,M28
4	R2404735-001	Boundary Soils	.04	50mL	6010C/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP				50.00mL	Colorless-Clear		
5	RQ2406482-03	R2404735-001 MS	.04	50mL	6010C/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP				50.00mL	Colorless-Clear	1.0000 mL/235099	
6	RQ2406482-04	R2404735-001 DMS	.04	50mL	6010C/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP				50.00mL	Colorless-Clear	1.0000 mL/235099	

Spiking Solutions

Name: TCLP Spike Inventory ID 235099 Logbook Ref: 235099 Expires On: 01/14/2025

Preparation Materials

1:1 HCl Metals Grade	1:1 223283 (233826)	Hot Block Cups	50mL Lot L223102601 (235558)	Hydrochloric Acid (HCl) Metals Grade	233283 (233283)
Nitric Acid Metals Grade HNO3	233477 (233477)	Thermometer	460 (230830)		

Preparation Steps

Step: Digestion
Started: 6/11/24 12:40
Finished: 6/12/24 16:16
By: CDISTEFANO
Comments

Comments: _____

Reviewed By: Nicole Manson Date: 6/12/24

Preparation Information Benchsheet

Prep Run#: 439709
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigLP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 6/11/24 12:40

TCLP
~~4919~~
4735 6/14

6010

Chain of Custody

Relinquished By:	CD	Date:	6/12/24	Extracts Examined
Received By:	R. Aoi	Date:	6/12/24	Yes No

Fluid 1: 439671

Fluid 2: 439672

Non-VOA TCLP Extraction - EPA 1311

SOP: MET-TCLP

Analyst: UP + MW

Rotator ID	6		
Date started	6/6/24		
Time started	15:55		
RPM (daily when full)	29		
Within 28-32rpm?	Y		
Date ended	6/7/24		
Time ended	8:16		

UP 6/7/24

Room Temp Therm ID: 427

	°C
Min	20.6
Max	22.6

Within Limits (21-25°C)? N

Comments: Already Reported

pH Meter: RpH09

Balance: RBal-5

Diluted fluid concentrates prepared Daily

HNO3 preservative: ①

Fluid #1 concentrate: 234773 pH 4.93±0.05

Fluid #2 concentrate: 234021 pH 2.88±0.05

Filter Lot: 233259

Filter Date: 6/7/24

Fluid Determination Hotplate:

Thermometer ID: Pot

Temp °C: 212

1N HCl lot (if used):

UP 6/7/24

Comments:

Order #	Extraction Vessel ID	Rotator ID	Tests Needed	Will yield Liquid under Pressure?	Part size Reduced?*	Fluid determination** A. 5g+96.5mLDI 5min g	Start	End	pH	B.IfpH >5, add 3.5mL 1N HCl 10m@48-52C Start	End	pH	Sample Amt (g)	Fluid # used	Fluid vol Used (ml)	Filtration Time	pH	If separated Filtrate Compatible?	Recombination amount filtrate	amount leachate	Comments
R240616447-01	23321	6	SVOA	—	—	Fluid Determination							—	1	200ml	9:37	5.04				
R240616448-01	23309	↓	SVOA/Met	—	—	on Page 12							—	2	↓	9:40	3.39				
R240470I-01	23316		SVOA	N	N								101.5	1		9:50	5.49				
R240473S01	23313	↓	SVOA/Met	↓	↓								100.6	2	↓	9:40	5.17				

UP 6/7/24

Metals extracts matrix spiked prior to preservation? ①

Comments:

① Unpreserved + unspiked Samples given to Metals

Percent Solids Determinination, if needed

Order #						
Ws: Weight of sample						
Wc: Tare Wt of container						
Wcs: Final Wt of container						
%solids = 100 x (Ws-(Wcs-Wc))/Ws						

UP 6/6/24

*Reduce until will pass 9.5mm sieve

**If pH in A or B is <5.0 use fluid 1,if >5.0 use fluid 2

Volume of ext fluid: 20(%sol)(sample wt)/100

F2

Preparation Information Benchsheet

Prep Run#: 439672
Team: Semivoa GC/KPROCOPIO

Prep WorkFlow: TCLP
Prep Method: Method

Status: Prepped
Prep Date/Time: 6/6/24 08:50

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2406448-01	MB		100g	EPA 1311/TCLP				2,000.00mL			
2	R2404735-001	Boundary Soils	.01	100.6900g	EPA 1311/TCLP				2,000.00mL			

Preparation Steps

Step: Leach
Started: 6/7/24 08:50
Finished: 6/7/24 08:52
By: KPROCOPIO
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extracts Examined
Yes No

ICP ICV/CCV Standard

Standard is prepared daily

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 1	Ca	233888	5000	1.00	200	25.00
	Mg		5000			25.00
	K		5000			25.00
	Na		5000			25.00
Cal Std 2	Ag	233889	100	1.00		0.50
	Cr		100			0.50
	Mn		150			0.75
	Ni		400			2.00
	Zn		200			1.00
Cal Std 3	Al	233056	2000	1.00		10.00
	Ba		2000			10.00
	Be		50			0.25
	Co		500			2.50
	Cu		250			1.25
	Fe		1000			5.00
	V		500			2.50
Cal Std 4	As	232796	100	2.00		1.00
	Cd		50			0.50
	Pb		50			0.50
	Se		50			0.50
	Tl		100			1.00
	Sb	235285	1000	1.00		5.00
	Sn	232726	1000	1.00		5.00
	B	231910	1000	0.50		2.50
	Mo	230303	1000	0.50		2.50
	Ti	233846	1000	0.50		2.50
	Sr	230304	1000	0.50		2.50
	Si	235479	1000	2.00		10.00

Matrix	Analyst/ Date	Letter ID	HNO3 Lot #	HCl Lot #	Expiration Date	Pipet ID
2% HNO3 5% HCl	NM 6/12/24	A	235024	233283	6/13/24	M36
10% HNO3 5% HCl	NM 6/12/24	B	235024	233283	6/13/24	M36
		C				
		D				
		E				
		F				
		G				
		H				
		I				
		J				
		K				
		L				
		M				
		N				
		O				
		P				
		Q				
		R				
		S				
		T				
		U				
		V				
		W				
		X				
		Y				
		Z				
		AA				
		BB				
		CC				
		DD				

ICP Calibration Standard #1

Standard is prepared every 6 months or as necessary

Metal	ALS Lot #	Conc. (ppm)	Vol (mls)	Final Vol (mls)	Final Conc. (ppm)
Al	221983	10000 ~~0.01~~	1000		0.100
As	230302	1000	0.01	0.10mL MFM 3/28/24	0.010
Ba	233717	1000	0.02		0.020
Be	230311 (1/10)	100	0.03		0.003
Cd	227603 (1/10)	100	0.05		0.005
Cu	230454	1000	0.01		0.010
Mn	233718	1000	0.01		0.010
Mo	233720	1000	0.025		0.025
Pb	227185 (1/10)	100	0.05		0.050
Sb	230313	1000	0.06		0.060
Tl	233695	1000	0.01		0.010

Matrix	Analyst/ Date	Letter ID	HNO3 Lot #	HCl Lot #	Expiration Date	Pipet ID
10% HBO_3 5% HCl	MFM 3/27/24	A	233477	233283	7/31/24	M37
		B				
		C				
		D				
		E				
		F				
		G				
		H				
		I				
		J				
		K				
		L				
		M				
		N				
		O				
		P				
		Q				
		R				
		S				
		T				
		U				
		V				
		W				
		X				
		Y				
		Z				

ICP Calibration Standard 6

Standard is prepared every 6 months or as necessary

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 2	Ag	230301	100	5.00	500	1.00
	Cr		100			1.00
	Mn		150			1.50
	Ni		400			4.00
	Zn		200			2.00
Cal Std 3	Al	233055	2000	5.00		20.00
	Ba		2000			20.00
	Be		50			0.50
	Co		500			5.00
	Cu		250			2.50
	Fe		1000			10.00
	V		500			5.00
Cal Std 4	As	231798	100	10.00		2.00
	Cd		50			1.00
	Pb		50			1.00
	Se		50			1.00
	Tl		100			2.00
	Ca	230305	10000	2.50		50.00
	Mg	230307	10000	2.50		50.00
	K	233452	10000	2.50		50.00
	Na	230308	10000	2.50		50.00
	Sb	230313	1000	5.00		10.00
	Sn	234660	1000	5.00		10.00
	B	233693	1000	5.00		10.00
	Mo	233720	1000	2.50		5.00
	Ti	230316	1000	2.50		5.00
	Sr	230310	1000	2.50		5.00
	Si	234659	~~1000~~ 10000	~~25.00~~ 2.50		50.00

Matrix	Analyst/ Date	Letter ID	HNO3 Lot #	HCl Lot #	Expiration Date	Pipet ID
16% HNO3 5% HCl	NM 5/13/24	A	233477	233283	11/2/24	M38
2% HNO3 5% HCl	NM 5/28/24	B	233477	233283	11/2/24	M38
		C				
		D				
		E				
		F				
		G				
		H				
		I				
		J				
		K				
		L				
		M				
		N				
		O				
		P				
		Q				
		R				
		S				
		T				
		U				
		V				
		W				
		X				
		Y				
		Z				

ICP HLCCV2 (Standard is prepared every 6 months or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 2	AG	230301	100	~~2.00~~	~~100~~	2.00
	CR		100	4.00	200	Below
	MN		150			Below
	NI		400			8.00
	ZN		200			4.00
Cal Std 3	AL	233055	2000	~~2.00~~		Below
	BA		2000	4.00		40.0
	BE		50			1.00
	CO, V		500			10.0
	CU		250			5.00
	FE		1000			Below
Cal Std 4	AS, TL	231798	100	~~4.00~~		4.00
	CD, SE		50	8.00		2.00
	PB		50			Below
Single Metals	B	233693	1000	~~1.00~~	2.00	10.0
	MO	233~~00~~20	1000	~~1.00~~	2.00	10.0
	TI	230316	1000	~~1.00~~	2.00	10.0
	SR	230310	1000	~~1.00~~	2.00	10.0
	CA	230305	10000	~~2.50~~	5.00	250
	MG	230307	10000	~~5.00~~	10.00	500
	NA	230308	10000	~~2.00~~	4.00	~~150~~ 200
	CR	230312	1000	~~0.800~~	1.60	10.0
	FE	230306	10000	~~0.300~~	0.600	50
	AL	233887	10000	~~4.60~~	9.20	500
	MN	233718	1000	~~0.700~~	1.40	10.00
	PB	233694	1000	~~0.800~~	1.60	10.0
	K	233452	10000	~~1.50~~	3.00	150

Analyst/ Date	Letter ID	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date 10/23/24	Pipet ID
MFM 4/23/24	A	2332477 2%	233283 5%	~~5/23/24~~	M36 /M38
MFM 4/23/24	B	2334477 10%	233283 5%	~~5/23/24~~	M36 /M38
	C				
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				

ICP HLCCV3 (Standard is prepared every 6 months or as necessary)

Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst / Date	Letter ID	Nitric Acid Lot #	HCL Lot #	Expiration Date	Pipet ID
CA	230305	10,000	~~2.000~~ 4.000	~~100~~ 200	200.00	2% HNO_3 5% HNO_3	MFM 4/24/24	A	233477	233283	10/24/24	M36 M38
CU	230454	1000	~~0.400~~ 0.800		4.00	10% HNO_3 5% HCl	NM 5/16/24	B	233477	233283	11/2/24	M40 M38
FE	230306	10,000	~~0.400~~ 0.800		40.00			C				
K	233452	10,000	~~1.000~~ 2.000		100.00			D				
TL	233695	1000	~~0.300~~ 0.600		3.00			E				
NA	230308	10,000	~~1.500~~ 3.000		150.00			F				
MG	230307	10,000	~~4.000~~ 8.000		400.00			G				
								H				
								I				
								J				
								K				
								L				
								M				
								N				
								O				
								P				
								Q				
								R				
								S				
								T				
								U				

ICP MRL (Standard is prepared every 6 months or as needed)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 1	CA	233425	5000	0.200	1000	1.00
	MG		5000			1.00
	K		5000			1.00
	NA		5000			1.00
Cal Std 2	AG	230301	100	0.100		0.0100
	CR		100			0.0100
	MN		150			0.0150
	NI		400			0.0400
	ZN		200			0.0200
Cal Std 3	AL	233055	2000	0.100		0.200
	BA		2000			0.200
	BE		50			0.0050
	CO		500			0.0500
	CU		250			0.0250
	FE		1000			0.100
	V		500			0.0500
Cal Std 4	AS	231798	100	0.200		0.0200
	CD		50			0.0100
	PB		50			0.0100
	SE		50			0.0100
	TL		100			0.0200
Single Metals	B	233693	1000	0.200		0.200
	MO	233720	1000	0.025		0.0250
	SN	231915	1000	0.500		0.500
	TI	230316	1000	0.050		0.0500
	SB	230313	1000	0.060		0.0600
	SR	230310	1000	0.100		0.100
	P	—	1000	0.100		0.100

Analyst/ Date	Letter ID	Nitric Acid Lot# / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
MFM 3/27/24	A	233477 10%	233283 5%	9/27/24	M36 M37
MFM 3/27/24	B	233477 2%	233283 5%	9/27/24	M37 M40
NM 5/16/24	C	233477 10%	233283 5%	11/2/24	M37 M40
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				
	BB				

ICP ICSA STANDARD (Standard is prepared every 6 months or as necessary)

Element	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Int. A Sol'n	233727	Multi	50	1000	Multi
AL		5000			250
CA		5000			250
FE		2000			100
MG		5000			250

Analyst/ Date	ID Letter	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
MFM 3/8/24	A	233283 ↔	~~244~~ 233477	9/8/24	dispo
MFM 4/19/24	B	233477 10%	233283 5%	10/19/24	dispo
	C				
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				

ICP ICSAB STANDARD (Standard is prepared every 6 months or as necessary)

Element	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Int. A Sol'n	233727	Multi	~~25~~ 50	~~500~~ 1000	Multi
AL		5000			250
CA		5000			250
FE		2000			100
MG		5000			250
Int. B Sol'n	233912	Multi	~~5~~ 10		Multi
AG		20			0.200
BA		50			0.500
BE		50			0.500
CD		100			1.00
CO		50			0.500
CR		50			0.500
CU		50			0.500
MN		50			0.500
NI		100			1.00
PB		5			0.0500
V		50			0.500
ZN		100			1.00
AS		10			0.100
SB		60			0.600
SE		5			0.0500
TL		10			0.100

Analyst/ Date	ID Letter	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
MFM 3/1/24	A	233477 10%	233283 5%	8/30/24	dispo
MFM 3/8/24	B	233477 2%	233283 5%	9/8/24	dispo
NM 5/6/24	C	233477 10%	233283 5%	11/6/24	dispo
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				

ICP Internal Standard Solution

Standard is prepared every 6 months or as necessary

(Added In-line)

Metal	ALS Lot #	Conc. (ppm)	Vol (mls)	Final Vol (mls)	Final Conc. (ppm)
Y	233696	10000	2.00	2000	10.0
Cs	233726	10000	2		10.0

Matrix	Analyst/ Date	Letter ID	HNO3 Lot #	HCl Lot #	Expiration Date	Pipet ID
2% HNO3/ 5% HCl	NM 6/11/24	**A**	235024	233783	12/11/24	M36
	NM 6/11/24	**B**	235024	233783	12/11/24	M.36
		C				
		D				
		E				
		F				
		G				
		H				
		I				
		J				
		K				
		L				
		M				
		N				
		O				
		P				
		Q				
		R				
		S				
		T				
		U				
		V				
		W				
		X				
		Y				
		Z				

Sample Dilutions 6010C/6010D/200.7

Final Volume: 6-8mL

Analyst: NM
strument: ICP6

Date 6/12/24
Analysis 6010C

Common Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mLs of Sample	mLs of Diluent	Dilution Factor	mLs of Sample	mLs of Diluent	Dilution Factor	mLs of Sample	mLs of Diluent	Dilution Factor	mLs of Sample	mLs of Diluent	Dilution Factor	mLs of Sample	mLs of Diluent	Dilution Factor
1/2	2%HNO3/ 5%HCL	3	3	**1/2**												
1/3	2%HNO3/ 5%HCL	2	4	**1/3**												
1/4	2%HNO3/ 5%HCL	2	6	**1/4**												
1/5	2%HNO3/ 5%HCL	1.2	4.8	**1/5**												
1/10	2%HNO3/ 5%HCL	0.6	5.4	**1/10**												
1/10	2%HNO3/ 5%HCL	0.8	7.2	**1/10**												
1/20	2%HNO3/ 5%HCL	0.3	5.7	**1/20**												
1/20	2%HNO3/ 5%HCL	0.4	7.6	**1/20**												
1/50	2%HNO3/ 5%HCL	1	4	**1/5**	0.6	5.4	**1/50**									
1/100	2%HNO3/ 5%HCL	0.6	5.4	**1/10**	0.6	5.4	**1/100**									
1/200	2%HNO3/ 5%HCL	1	1	**1/2**	0.6	5.4	**1/20**	0.6	5.4	**1/200**						
1/500	2%HNO3/ 5%HCL	1	4	**1/5**	0.6	5.4	**1/50**	0.6	5.4	**1/500**						
1/1000	2%HNO3/ 5%HCL	0.6	5.4	**1/10**	0.6	5.4	**1/100**	0.6	5.4	**1/1000**						
1/2000	2%HNO3/ 5%HCL	1	1	**1/2**	0.6	5.4	**1/20**	0.6	5.4	**1/200**	0.6	5.4	**1/2000**			
1/5000	2%HNO3/ 5%HCL	1	4	**1/5**	0.6	5.4	**1/50**	0.6	5.4	**1/500**	0.6	5.4	**1/5000**			
1/10000	2%HNO3/ 5%HCL	0.6	5.4	**1/10**	0.6	5.4	**1/100**	0.6	5.4	**1/1000**	0.6	5.4	**1/10000**			
1/20000	2%HNO3/ 5%HCL	1	1	**1/2**	0.6	5.4	**1/20**	0.6	5.4	**1/200**	0.6	5.4	**1/2000**	0.6	5.4	**1/20000**

Special Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mLs of Sample	mLs of Diluent	Dilution Factor	mLs of Sample	mLs of Diluent	Dilution Factor	mLs of Sample	mLs of Diluent	Dilution Factor	mLs of Sample	mLs of Diluent	Dilution Factor	mLs of Sample	mLs of Diluent	Dilution Factor

Form 2

Calibration Verifications

Metals by EPA 6010C

Workorder

R2404674

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 9-Month

06/21/2024

ALS Environmental–Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Form 2 - Calibration Verifications

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 9-Month	**R2404674**	

Metals by EPA 6010C (P)

R-ICP-AES-06_844074		ICV			LLCCV			CCV			CCV			CCV			CCV		
Units ppm	**Run Date**	06/12/24			06/12/24			06/12/24			06/12/24			06/12/24			06/12/24		
	Run Time	18:18			18:26			18:36			19:15			19:53			20:32		
Analyte		Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q
Iron		4.98	**100**		0.105	**105**		5.05	**101**		5.04	**101**		5.05	**101**		5.09	**102**	
Manganese		0.735	**98**		0.0140	**93**		0.739	**98**		0.743	**99**		0.744	**99**		0.745	**99**	

R-ICP-AES-06_844074		LLCCV			CCV		
Units ppm	**Run Date**	06/12/24			06/12/24		
	Run Time	20:39			20:58		
Analyte		Found	%R	Q	Found	%R	Q
Iron		0.111	**111**		5.06	**101**	
Manganese		0.0142	**95**		0.743	**99**	

Q - %Recovery Flag * - %Recovery (%R) Outside Limits

QC ID	%R Limits	
CCV	90 - 110	**5.0** - Fe; **0.750** - Mn
ICV	90 - 110	**5.0** - Fe; **0.750** - Mn
LLCCV	70 - 130	**0.1** - Fe; **0.0150** - Mn

Form 2 - Calibration Verifications

Client Civil & Environmental Consultants, Incorporated (CEC)

Project Olean OU3 9-Month

Workorder **R2404674**

Metals by EPA 6010C (P)

R-ICP-AES-07_843647		ICV			CCV			LLCCV			CCV			CCV			CCV		
Units ug/L	**Run Date**	06/10/24			06/10/24			06/10/24			06/10/24			06/11/24			06/11/24		
	Run Time	15:39			23:20			23:27			23:37			00:15			00:54		
Analyte		Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q
Arsenic		0.990	**99**		0.963	**96**		0.0195	**98**		0.962	**96**		0.962	**96**		0.960	**96**	
Iron		5.05	**101**		5.03	**101**		0.109	**109**		5.02	**100**		5.01	**100**		4.97	**99**	
Manganese		0.745	**99**		0.741	**99**		0.0139	**93**		0.739	**98**		0.742	**99**		0.736	**98**	

R-ICP-AES-07_843647		CCV			LLCCV			CCV		
Units ppm	**Run Date**	06/11/24			06/11/24			06/11/24		
	Run Time	01:30			01:36			01:46		
Analyte		Found	%R	Q	Found	%R	Q	Found	%R	Q
Arsenic		0.971	**97**		0.0188	**94**		0.970	**97**	
Iron		5.04	**101**		0.108	**108**		5.07	**101**	
Manganese		0.742	**99**		0.0141	**94**		0.742	**99**	

Q - %Recovery Flag * - %Recovery (%R) Outside Limits

QC ID	%R Limits	
CCV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn
ICV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn
ICV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn
LLCCV	70 - 130	**0.02** - As; **0.1** - Fe; **0.0150** - Mn

Form 3

Blanks

Metals by EPA 6010C

Workorder

R2404674

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 9-Month

06/21/2024

ALS Environmental–Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
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Form 3 - Blanks

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 9-Month	**R2404674**	

Metals by EPA 6010C (P)

R-ICP-AES-06_844074			ICB		CCB		CCB		CCB		CCB		CCB	
		Run Date	06/12/24		06/12/24		06/12/24		06/12/24		06/12/24		06/12/24	
		Run Time	18:23		18:39		19:18		19:57		20:35		21:01	
		Units	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Analyte	DL	LOQ	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Iron	70	100	70	U	70	U	70	U	70	U	70	U	70	U
Manganese	4	10	4	U	4	U	4	U	4	U	4	U	4	U

Q - Result Flag * - Result Outside Limits

Form 3 - Blanks

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 9-Month	**R2404674**	

Metals by EPA 6010C (P)

R-ICP-AES-07_843647			ICB		CCB		CCB		CCB		CCB		CCB	
		Run Date	06/10/24		06/10/24		06/10/24		06/11/24		06/11/24		06/11/24	
		Run Time	15:43		23:24		23:40		00:19		00:57		01:33	
		Units	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Analyte	DL	LOQ	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Arsenic	6	10	6	U	6	U	6	U	6	U	6	U	6	U
Iron	70	100	70	U	70	U	70	U	70	U	70	U	70	U
Manganese	4	10	4	U	4	U	4	U	4	U	4	U	4	U

R-ICP-AES-07_843647			CCB		
		Run Date	06/11/24		
		Run Time	01:49		
		Units	ug/L		
Analyte	DL	LOQ	Result	Q	
Arsenic	6	10	6	U	
Iron	70	100	70	U	
Manganese	4	10	4	U	

Q - Result Flag * - Result Outside Limits

right solutions.
right partner.

Analysis Run Log

Metals by EPA 6010C

Workorder

R2404674

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 9-Month

06/21/2024

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Form 14 - Analysis Run Log

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 9-Month	**R2404674**	

Metals by EPA 6010C (P)

R-ICP-AES-06_844074	Instrument ID	Start Date	End Date
	R-ICP-AES-06	06/12/24	06/12/24

Time	Type	Sample ID	Dilution	Analytes
18:18	ICV	Initial Calibraton Verification	1	Fe,Mn
18:23	ICB	Initial Calibration Blank	1	Fe,Mn
18:26	LLCCV	Low Level Continuing Calibration Verification	1	Fe,Mn
18:30	ICSA	Interference Check Solution A	1	Fe,Mn
18:33	ICSAB	Interference Check Solution AB	1	Fe,Mn
18:36	CCV	Continuing Calibration Verification	1	Fe,Mn
18:39	CCB	Continuing Calibration Blank	1	Fe,Mn
18:49	SMPL	OLN-RU019-F008	50	Fe,Mn
18:52	SMPL	OLN-RU027A-F008	50	Fe,Mn
18:55	SD	OLN-RU027A-F008	250	Fe,Mn
19:15	CCV	Continuing Calibration Verification	1	Fe,Mn
19:18	CCB	Continuing Calibration Blank	1	Fe,Mn
19:53	CCV	Continuing Calibration Verification	1	Fe,Mn
19:57	CCB	Continuing Calibration Blank	1	Fe,Mn
20:32	CCV	Continuing Calibration Verification	1	Fe,Mn
20:35	CCB	Continuing Calibration Blank	1	Fe,Mn
20:39	LLCCV	Low Level Continuing Calibration Verification	1	Fe,Mn
20:42	ICSA	Interference Check Solution A	1	Fe,Mn
20:45	ICSAB	Interference Check Solution AB	1	Fe,Mn
20:58	CCV	Continuing Calibration Verification	1	Fe,Mn
21:01	CCB	Continuing Calibration Blank	1	Fe,Mn

Form 14 - Analysis Run Log

Client Civil & Environmental Consultants, Incorporated (CEC)

Project Olean OU3 9-Month

Workorder **R2404674**

Metals by EPA 6010C (P)

R-ICP-AES-07_843647	Instrument ID	Start Date	End Date
	R-ICP-AES-07	06/10/24	06/11/24

Time	Type	Sample ID	Dilution	Analytes
15:39	ICV	Initial Calibraton Verification	1	As,Fe,Mn
15:43	ICB	Initial Calibration Blank	1	As,Fe,Mn
23:20	CCV	Continuing Calibration Verification	1	As,Fe,Mn
23:24	CCB	Continuing Calibration Blank	1	As,Fe,Mn
23:27	LLCCV	Low Level Continuing Calibration Verification	1	As,Fe,Mn
23:30	ICSA	Interference Check Solution A	1	As,Fe,Mn
23:33	ICSAB	Interference Check Solution AB	1	As,Fe,Mn
23:37	CCV	Continuing Calibration Verification	1	As,Fe,Mn
23:40	CCB	Continuing Calibration Blank	1	As,Fe,Mn
23:43	MB	MB-R2404674-MB Method Blank	1	As,Fe,Mn
23:46	LCS	LCS-R2404674-LCS Lab Control Sample	1	As,Fe,Mn
23:49	SMPL	OLN-RU009-F008	1	As,Fe,Mn
23:53	SMPL	OLN-FB001-B008	1	As,Fe,Mn
23:56	SMPL	OLN-RU010-F008	1	As,Fe,Mn
23:59	SMPL	OLN-RU015-F008	1	As,Fe,Mn
00:02	SMPL	OLN-RU019-F008	1	As
00:06	SMPL	OLN-RU020-F008	1	As,Fe,Mn
00:09	SMPL	OLN-RU021-F008	1	As,Fe,Mn
00:12	SMPL	OLN-RU027A-F008	1	As
00:15	CCV	Continuing Calibration Verification	1	As,Fe,Mn
00:19	CCB	Continuing Calibration Blank	1	As,Fe,Mn
00:22	SMPL	OLN-RU028-F008	1	As,Fe,Mn
00:25	SMPL	OLN-UA002-F008	1	As,Fe,Mn
00:28	MS	OLN-UA002-F008	1	As,Fe,Mn
00:31	DMS	OLN-UA002-F008	1	As,Fe,Mn
00:35	PS	OLN-UA002-F008	1	As,Fe,Mn
00:38	SD	OLN-UA002-F008	5	As,Fe,Mn

Form 14 - Analysis Run Log

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 9-Month	**R2404674**	

Metals by EPA 6010C (P)

R-ICP-AES-07_843647	Instrument ID	Start Date	End Date
	R-ICP-AES-07	06/10/24	06/11/24

Time	Type	Sample ID	Dilution	Analytes
00:41	SMPL	OLN-WW18M-F008	1	As,Fe,Mn
00:44	SMPL	OLN-FD001-D008	1	As,Fe,Mn
00:48	SMPL	OLN-FB002-B008	1	As,Fe,Mn
00:51	SMPL	OLN-EB001-E008	1	As,Fe,Mn
00:54	CCV	Continuing Calibration Verification	1	As,Fe,Mn
00:57	CCB	Continuing Calibration Blank	1	As,Fe,Mn
01:30	CCV	Continuing Calibration Verification	1	As,Fe,Mn
01:33	CCB	Continuing Calibration Blank	1	As,Fe,Mn
01:36	LLCCV	Low Level Continuing Calibration Verification	1	As,Fe,Mn
01:39	ICSA	Interference Check Solution A	1	As,Fe,Mn
01:43	ICSAB	Interference Check Solution AB	1	As,Fe,Mn
01:46	CCV	Continuing Calibration Verification	1	As,Fe,Mn
01:49	CCB	Continuing Calibration Blank	1	As,Fe,Mn

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Preparation Log

EPA 3005A/3010A

Workorder

R2404674

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 9-Month

06/21/2024

ALS Environmental–Rochester Laboratory
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Form 13 - Preparation Log

Client Civil & Environmental Consultants, Incorporated (CEC)

Project Olean OU3 9-Month

Workorder **R2404674**

Metals by EPA 6010C (P)

Prep Batch 439600 **Prep Date** 06/06/24

	Matrix	Type	Lab Sample ID	Initial Amt mL	Final Amt mL	Client Sample ID
1	Water	MB	R2404674-MB	50	50	Method Blank
2	Water	LCS	R2404674-LCS	50	50	Lab Control Sample
3	Water	SMPL	R2404674-001	50	50	OLN-RU009-F008
4	Water	SMPL	R2404674-002	50	50	OLN-FB001-B008
5	Water	SMPL	R2404674-004	50	50	OLN-RU010-F008
6	Water	SMPL	R2404674-005	50	50	OLN-RU015-F008
7	Water	SMPL	R2404674-006	50	50	OLN-RU019-F008
8	Water	SMPL	R2404674-007	50	50	OLN-RU020-F008
9	Water	SMPL	R2404674-008	50	50	OLN-RU021-F008
10	Water	SMPL	R2404674-009	50	50	OLN-RU027A-F008
11	Water	SMPL	R2404674-010	50	50	OLN-RU028-F008
12	Water	SMPL	R2404674-011	50	50	OLN-UA002-F008
13	Water	DMS	R2404674-011DMS	50	50	OLN-UA002-F008
14	Water	MS	R2404674-011MS	50	50	OLN-UA002-F008
15	Water	SMPL	R2404674-012	50	50	OLN-WW18M-F008
16	Water	SMPL	R2404674-013	50	50	OLN-FD001-D008
17	Water	SMPL	R2404674-014	50	50	OLN-FB002-B008
18	Water	SMPL	R2404674-016	50	50	OLN-EB001-E008

General Chemistry

ALS Environmental—Rochester Laboratory
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Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/28/24 16:06
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU009-F008	**Basis:**	NA
Lab Code:	R2404674-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	5.0 U	mg/L	5.0	3.8	1	06/07/24 16:46	
Sulfate	300.0	**25.6**	mg/L	2.0	0.4	10	06/14/24 23:41	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/28/24 16:53
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-FB001-B008	**Basis:**	NA
Lab Code:	R2404674-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	5.0	U	mg/L	5.0	3.8	1	06/07/24 16:46	
Sulfate	300.0	2.0	U	mg/L	2.0	0.4	10	06/14/24 23:47	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 17:50
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU010-F008	**Basis:**	NA
Lab Code:	R2404674-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Sulfate	300.0	**197**	mg/L	10	2	50	06/16/24 09:38	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 08:42
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU015-F008	**Basis:**	NA
Lab Code:	R2404674-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**11.9**	mg/L	5.0	3.8	1	06/07/24 16:46	
Sulfate	300.0	**19.6**	mg/L	2.0	0.4	10	06/15/24 00:31	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 17:20
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU019-F008	**Basis:**	NA
Lab Code:	R2404674-006		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**1390**	mg/L	5.0	3.8	1	06/07/24 14:01	
Sulfate	300.0	**99.8**	mg/L	2.0	0.4	10	06/15/24 00:38	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 14:55
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU020-F008	**Basis:**	NA
Lab Code:	R2404674-007		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**25.0**	mg/L	5.0	3.8	1	06/07/24 16:46	
Sulfate	300.0	**187**	mg/L	6.0	1.2	30	06/18/24 19:56	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 16:11
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU021-F008	**Basis:**	NA
Lab Code:	R2404674-008		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**267**	mg/L	5.0	3.8	1	06/07/24 14:01	
Sulfate	300.0	**100**	mg/L	4.0	0.8	20	06/18/24 20:02	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 14:21
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU027A-F008	**Basis:**	NA
Lab Code:	R2404674-009		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**539**	mg/L	5.0	3.8	1	06/07/24 14:01	
Sulfate	300.0	**1.3 J**	mg/L	2.0	0.4	10	06/15/24 00:56	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 12:35
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-RU028-F008	**Basis:**	NA
Lab Code:	R2404674-010		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	5.0 U	mg/L	5.0	3.8	1	06/07/24 16:46	
Sulfate	300.0	**21.1**	mg/L	2.0	0.4	10	06/15/24 01:03	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 10:10
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-UA002-F008	**Basis:**	NA
Lab Code:	R2404674-011		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**11.5**	mg/L	5.0	3.8	1	06/07/24 16:46	
Sulfate	300.0	**49.1**	mg/L	2.0	0.4	10	06/15/24 01:22	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 07:00
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-FD001-D008	**Basis:**	NA
Lab Code:	R2404674-013		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**253**	mg/L	5.0	3.8	1	06/07/24 14:01	
Sulfate	300.0	**98.8**	mg/L	4.0	0.8	20	06/18/24 20:08	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/29/24 17:25
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-FB002-B008	**Basis:**	NA
Lab Code:	R2404674-014		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	5.0	U	mg/L	5.0	3.8	1	06/07/24 16:46	
Sulfate	300.0	2.0	U	mg/L	2.0	0.4	10	06/15/24 01:53	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2404674
Project:	Olean OU3 9-Month/300-082.0043	**Date Collected:**	05/30/24 16:30
Sample Matrix:	Water	**Date Received:**	05/31/24 09:50
Sample Name:	OLN-EB001-E008	**Basis:**	NA
Lab Code:	R2404674-016		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	5.0	U	mg/L	5.0	3.8	1	06/07/24 16:46	
Sulfate	300.0	2.0	U	mg/L	2.0	0.4	10	06/15/24 01:59	

Analytical Results Summary

Instrument Name: R-UV-VIS-06 **Analyst:** SDUBE **Analysis Lot:** 843688 **Method/Testcode:** Hach 8000 (1979)/COD T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2406669-01	Chemical Oxygen Demand, Total	CCV		Water	519.00 mg/L	2 mL	519 mg/L	1					6/7/24 14:01	N	II
KQ2406669-02	Chemical Oxygen Demand, Total	CCB		Water	-2.67 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			6/7/24 14:01	N	II
KQ2406669-03	Chemical Oxygen Demand, Total	LCS		Water	519.00 mg/L	2 mL	519 mg/L	1	3.8	5.0	104		6/7/24 14:01	N	II
KQ2406669-04	Chemical Oxygen Demand, Total	MB		Water	-2.67 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			6/7/24 14:01	N	II
K2404841-001	Chemical Oxygen Demand, Total	N/A		Water	907.54 mg/L	2 mL	908 mg/L	1	3.8	5.0			6/7/24 14:01	N	II
K2404777-002	Chemical Oxygen Demand, Total	N/A		Water	162.46 mg/L	2 mL	162 mg/L	1	3.8	5.0			6/7/24 14:01	N	II
K2404840-002	Chemical Oxygen Demand, Total	N/A		Water	6312.91 mg/L	2 mL	6310 mg/L	10	38	50			6/7/24 14:01	N	II
K2404840-004	Chemical Oxygen Demand, Total	N/A		Water	4210.96 mg/L	2 mL	4210 mg/L	10	38	50			6/7/24 14:01	N	II
K2404840-005	Chemical Oxygen Demand, Total	N/A		Water	270.87 mg/L	2 mL	271 mg/L	1	3.8	5.0			6/7/24 14:01	N	II
K2404674-008	Chemical Oxygen Demand, Total	N/A		Water	266.93 mg/L	2 mL	267 mg/L	1	3.8	5.0			6/7/24 14:01	N	IV
K2404674-009	Chemical Oxygen Demand, Total	N/A		Water	539.44 mg/L	2 mL	539 mg/L	1	3.8	5.0			6/7/24 14:01	N	IV
KQ2406669-05	Chemical Oxygen Demand, Total	CCV		Water	515.64 mg/L	2 mL	516 mg/L	1					6/7/24 14:01	N	II
KQ2406669-06	Chemical Oxygen Demand, Total	CCB		Water	-1.67 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			6/7/24 14:01	N	II
K2404693-003	Chemical Oxygen Demand, Total	N/A		Water	224.58 mg/L	2 mL	225 mg/L	1	3.8	5.0			6/7/24 14:01	N	II
KQ2406669-07	Chemical Oxygen Demand, Total	MS	R2404693-003	Water	579.82 mg/L	2 mL	580 mg/L	1	3.8	5.0	95		6/7/24 14:01	N	II
KQ2406669-08	Chemical Oxygen Demand, Total	DMS	R2404693-003	Water	578.03 mg/L	2 mL	578 mg/L	1	3.8	5.0	94	<1	6/7/24 14:01	N	II
K2404719-001	Chemical Oxygen Demand, Total	N/A		Water	5673.61 mg/L	2 mL	5670 mg/L	10	38	50			6/7/24 14:01	N	II
K2404777-001	Chemical Oxygen Demand, Total	N/A		Water	1057.38 mg/L	2 mL	1060 mg/L	1	3.8	5.0			6/7/24 14:01	N	II
KQ2406669-09	Chemical Oxygen Demand, Total	MS	R2404777-001	Water	1369.85 mg/L	2 mL	1370 mg/L	1	3.8	5.0	83*		6/7/24 14:01	N	II
KQ2406669-10	Chemical Oxygen Demand, Total	DMS	R2404777-001	Water	1418.32 mg/L	2 mL	1420 mg/L	1	3.8	5.0	96	3	6/7/24 14:01	N	II
K2404798-002	Chemical Oxygen Demand, Total	N/A		Water	2551.99 mg/L	2 mL	2550 mg/L	10	38	50			6/7/24 14:01	N	II
K2404840-001	Chemical Oxygen Demand, Total	N/A		Water	6638.79 mg/L	2 mL	6640 mg/L	10	38	50			6/7/24 14:01	N	II
KQ2406669-11	Chemical Oxygen Demand, Total	CCV		Water	512.28 mg/L	2 mL	512 mg/L	1					6/7/24 14:01	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-UV-VIS-06 **Analyst:** SDUBE **Analysis Lot:** 843688 **Method/Testcode:** Hach 8000 (1979)/COD T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ2406669-12	Chemical Oxygen Demand, Total	CCB		Water	-0.67 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			6/7/24 14:01	N	II
R2404840-003	Chemical Oxygen Demand, Total	N/A		Water	3806.40 mg/L	2 mL	3810 mg/L	10	38	50			6/7/24 14:01	N	II
RQ2406669-13	Chemical Oxygen Demand, Total	MS	R2404840-003	Water	6895.36 mg/L	2 mL	6900 mg/L	10	38	50	82*		6/7/24 14:01	N	II
RQ2406669-14	Chemical Oxygen Demand, Total	DMS	R2404840-003	Water	6895.36 mg/L	2 mL	6900 mg/L	10	38	50	82*	<1	6/7/24 14:01	N	II
R2404842-001	Chemical Oxygen Demand, Total	N/A		Water	259.09 mg/L	2 mL	259 mg/L	1	3.8	5.0			6/7/24 14:01	N	II
R2404842-002	Chemical Oxygen Demand, Total	N/A		Water	173.14 mg/L	2 mL	173 mg/L	1	3.8	5.0			6/7/24 14:01	N	II
R2404843-002	Chemical Oxygen Demand, Total	N/A		Water	1393.79 mg/L	2 mL	1390 mg/L	1	3.8	5.0			6/7/24 14:01	N	II
R2404857-001	Chemical Oxygen Demand, Total	N/A		Water	1063.17 mg/L	2 mL	1060 mg/L	1	3.8	5.0			6/7/24 14:01	N	II
R2404857-002	Chemical Oxygen Demand, Total	N/A		Water	112.92 mg/L	2 mL	113 mg/L	1	3.8	5.0			6/7/24 14:01	N	II
R2404858-001	Chemical Oxygen Demand, Total	N/A		Water	84.11 mg/L	2 mL	84.1 mg/L	1	3.8	5.0			6/7/24 14:01	N	II
R2404913-001	Chemical Oxygen Demand, Total	N/A		Water	3403.43 mg/L	2 mL	3400 mg/L	10	38	50			6/7/24 14:01	N	II
RQ2406669-15	Chemical Oxygen Demand, Total	CCV		Water	517.32 mg/L	2 mL	517 mg/L	1					6/7/24 14:01	N	II
RQ2406669-16	Chemical Oxygen Demand, Total	CCB		Water	1.34 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			6/7/24 14:01	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-UV-VIS-06 **Analyst:** SDUBE **Analysis Lot:** 843689 **Method/Testcode:** Hach 8000 (1979)/COD T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2406670-01	Chemical Oxygen Demand, Total	CCV		Water	517.32 mg/L	2 mL	517 mg/L	1					6/7/24 14:01	N	II
KQ2406670-02	Chemical Oxygen Demand, Total	CCB		Water	1.34 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			6/7/24 14:01	N	II
KQ2406670-03	Chemical Oxygen Demand, Total	LCS		Water	517.32 mg/L	2 mL	517 mg/L	1	3.8	5.0	103		6/7/24 14:01	N	II
KQ2406670-04	Chemical Oxygen Demand, Total	MB		Water	1.34 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			6/7/24 14:01	N	II
K2404922-001	Chemical Oxygen Demand, Total	N/A		Water	150.71 mg/L	2 mL	151 mg/L	1	3.8	5.0			6/7/24 14:01	N	II
K2404631-004	Chemical Oxygen Demand, Total	N/A		Water	1624.55 mg/L	2 mL	1620 mg/L	10	38	50			6/7/24 14:01	N	II
K2404631-005	Chemical Oxygen Demand, Total	N/A		Water	73.25 mg/L	2 mL	73.2 mg/L	1	3.8	5.0			6/7/24 14:01	N	II
K2404647-002	Chemical Oxygen Demand, Total	N/A		Water	175.53 mg/L	2 mL	176 mg/L	1	3.8	5.0			6/7/24 14:01	N	II
K2404674-006	Chemical Oxygen Demand, Total	N/A		Water	1385.75 mg/L	2 mL	1390 mg/L	1	3.8	5.0			6/7/24 14:01	N	IV
K2404674-013	Chemical Oxygen Demand, Total	N/A		Water	252.61 mg/L	2 mL	253 mg/L	1	3.8	5.0			6/7/24 14:01	N	IV
KQ2406670-05	Chemical Oxygen Demand, Total	CCV		Water	512.28 mg/L	2 mL	512 mg/L	1					6/7/24 14:01	N	IV
KQ2406670-06	Chemical Oxygen Demand, Total	CCB		Water	1.34 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			6/7/24 14:01	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-UV-VIS-06 **Analyst:** SDUBE **Analysis Lot:** 843690 **Method/Testcode:** Hach 8000 (1979)/COD T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ2406671-01	Chemical Oxygen Demand, Total	CCV		Water	53.04 mg/L	2 mL	53.0 mg/L	1					6/7/24 16:46	N	II
RQ2406671-02	Chemical Oxygen Demand, Total	CCB		Water	-1.12 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			6/7/24 16:46	N	II
RQ2406671-03	Chemical Oxygen Demand, Total	LCS		Water	53.04 mg/L	2 mL	53.0 mg/L	1	3.8	5.0	106		6/7/24 16:46	N	II
RQ2406671-04	Chemical Oxygen Demand, Total	MB		Water	-1.12 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			6/7/24 16:46	N	II
R2404886-001	Chemical Oxygen Demand, Total	N/A		Water	39.96 mg/L	2 mL	40.0 mg/L	1	3.8	5.0			6/7/24 16:46	N	II
R2404822-001	Chemical Oxygen Demand, Total	N/A		Water	5.18 mg/L	2 mL	5.2 mg/L	1	3.8	5.0			6/7/24 16:46	N	II
R2404843-001	Chemical Oxygen Demand, Total	N/A		Water	64.80 mg/L	2 mL	64.8 mg/L	1	3.8	5.0			6/7/24 16:46	N	II
R2404892-001	Chemical Oxygen Demand, Total	N/A		Water	14.78 mg/L	2 mL	14.8 mg/L	1	3.8	5.0			6/7/24 16:46	N	II
RQ2406671-05	Chemical Oxygen Demand, Total	MS	R2404892-001	Water	40.23 mg/L	2 mL	40.2 mg/L	1	3.8	5.0	102		6/7/24 16:46	N	II
RQ2406671-06	Chemical Oxygen Demand, Total	DMS	R2404892-001	Water	38.61 mg/L	2 mL	38.6 mg/L	1	3.8	5.0	95	4	6/7/24 16:46	N	II
RQ2406671-07	Chemical Oxygen Demand, Total	CCV		Water	51.81 mg/L	2 mL	51.8 mg/L	1					6/7/24 16:46	N	II
RQ2406671-08	Chemical Oxygen Demand, Total	CCB		Water	0.30 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			6/7/24 16:46	N	II
R2404923-001	Chemical Oxygen Demand, Total	N/A		Water	36.43 mg/L	2 mL	36.4 mg/L	1	3.8	5.0			6/7/24 16:46	N	II
R2404894-001	Chemical Oxygen Demand, Total	N/A		Water	11.87 mg/L	2 mL	11.9 mg/L	1	3.8	5.0			6/7/24 16:46	N	II
RQ2406671-09	Chemical Oxygen Demand, Total	MS	R2404894-001	Water	38.07 mg/L	2 mL	38.1 mg/L	1	3.8	5.0	105		6/7/24 16:46	N	II
RQ2406671-10	Chemical Oxygen Demand, Total	DMS	R2404894-001	Water	36.98 mg/L	2 mL	37.0 mg/L	1	3.8	5.0	100	3	6/7/24 16:46	N	II
R2404616-001	Chemical Oxygen Demand, Total	N/A		Water	3.45 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			6/7/24 16:46	N	II
R2404617-001	Chemical Oxygen Demand, Total	N/A		Water	55.47 mg/L	2 mL	55.5 mg/L	1	3.8	5.0			6/7/24 16:46	N	II
R2404617-002	Chemical Oxygen Demand, Total	N/A		Water	13.81 mg/L	2 mL	13.8 mg/L	1	3.8	5.0			6/7/24 16:46	N	II
R2404617-003	Chemical Oxygen Demand, Total	N/A		Water	24.97 mg/L	2 mL	25.0 mg/L	1	3.8	5.0			6/7/24 16:46	N	II
R2404617-004	Chemical Oxygen Demand, Total	N/A		Water	26.16 mg/L	2 mL	26.2 mg/L	1	3.8	5.0			6/7/24 16:46	N	II
R2404631-008	Chemical Oxygen Demand, Total	N/A		Water	92.80 mg/L	2 mL	92.8 mg/L	1	3.8	5.0			6/7/24 16:46	N	II
RQ2406671-11	Chemical Oxygen Demand, Total	CCV		Water	52.55 mg/L	2 mL	52.5 mg/L	1					6/7/24 16:46	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-UV-VIS-06 **Analyst:** SDUBE **Analysis Lot:** 843690 **Method/Testcode:** Hach 8000 (1979)/COD T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ2406671-12	Chemical Oxygen Demand, Total	CCB		Water	-0.41 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			6/7/24 16:46	N	II
R2404631-009	Chemical Oxygen Demand, Total	N/A		Water	24.67 mg/L	2 mL	24.7 mg/L	1	3.8	5.0			6/7/24 16:46	N	II
R2404631-010	Chemical Oxygen Demand, Total	N/A		Water	79.99 mg/L	2 mL	80.0 mg/L	1	3.8	5.0			6/7/24 16:46	N	II
R2404631-011	Chemical Oxygen Demand, Total	N/A		Water	30.81 mg/L	2 mL	30.8 mg/L	1	3.8	5.0			6/7/24 16:46	N	II
RQ2406671-13	Chemical Oxygen Demand, Total	MS	R2404631-011	Water	53.77 mg/L	2 mL	53.8 mg/L	1	3.8	5.0	92		6/7/24 16:46	N	II
RQ2406671-14	Chemical Oxygen Demand, Total	DMS	R2404631-011	Water	54.02 mg/L	2 mL	54.0 mg/L	1	3.8	5.0	93	<1	6/7/24 16:46	N	II
R2404903-001	Chemical Oxygen Demand, Total	N/A		Water	17.94 mg/L	2 mL	17.9 mg/L	1	3.8	5.0			6/7/24 16:46	N	II
R2404909-004	Chemical Oxygen Demand, Total	N/A		Water	75.53 mg/L	2 mL	76 mg/L	10	38	50			6/7/24 16:46	N	II
R2404954-001	Chemical Oxygen Demand, Total	N/A		Water	49.06 mg/L	2 mL	49.1 mg/L	1	3.8	5.0			6/7/24 16:46	N	II
RQ2406671-15	Chemical Oxygen Demand, Total	MS	R2404954-001	Water	74.61 mg/L	2 mL	74.6 mg/L	1	3.8	5.0	102		6/7/24 16:46	N	II
RQ2406671-16	Chemical Oxygen Demand, Total	DMS	R2404954-001	Water	74.82 mg/L	2 mL	74.8 mg/L	1	3.8	5.0	103	<1	6/7/24 16:46	N	II
RQ2406671-17	Chemical Oxygen Demand, Total	CCV		Water	52.30 mg/L	2 mL	52.3 mg/L	1					6/7/24 16:46	N	II
RQ2406671-18	Chemical Oxygen Demand, Total	CCB		Water	-1.12 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			6/7/24 16:46	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-UV-VIS-06 **Analyst:** SDUBE **Analysis Lot:** 843692 **Method/Testcode:** Hach 8000 (1979)/COD T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2406672-01	Chemical Oxygen Demand, Total	CCV		Water	52.30 mg/L	2 mL	52.3 mg/L	1					6/7/24 16:46	N	IV
KQ2406672-02	Chemical Oxygen Demand, Total	CCB		Water	-1.12 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			6/7/24 16:46	N	IV
KQ2406672-03	Chemical Oxygen Demand, Total	LCS		Water	52.30 mg/L	2 mL	52.3 mg/L	1	3.8	5.0	105		6/7/24 16:46	N	IV
KQ2406672-04	Chemical Oxygen Demand, Total	MB		Water	-1.12 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			6/7/24 16:46	N	IV
K2404523-001	Chemical Oxygen Demand, Total	N/A		Water	10.31 mg/L	2 mL	25 mg/L U	5	19	25			6/7/24 16:46	N	IV
K2404523-002	Chemical Oxygen Demand, Total	N/A		Water	13.80 mg/L	2 mL	25 mg/L U	5	19	25			6/7/24 16:46	N	IV
K2404523-003	Chemical Oxygen Demand, Total	N/A		Water	6.80 mg/L	2 mL	25 mg/L U	5	19	25			6/7/24 16:46	N	IV
K2404591-001	Chemical Oxygen Demand, Total	N/A		Water	-3.83 mg/L	2 mL	25 mg/L U	5	19	25			6/7/24 16:46	N	IV
K2404591-002	Chemical Oxygen Demand, Total	N/A		Water	70.68 mg/L	2 mL	71 mg/L	5	19	25			6/7/24 16:46	N	IV
K2404591-003	Chemical Oxygen Demand, Total	N/A		Water	17.27 mg/L	2 mL	25 mg/L U	5	19	25			6/7/24 16:46	N	IV
K2404591-004	Chemical Oxygen Demand, Total	N/A		Water	8.55 mg/L	2 mL	25 mg/L U	5	19	25			6/7/24 16:46	N	IV
K2404643-001	Chemical Oxygen Demand, Total	N/A		Water	6.80 mg/L	2 mL	25 mg/L U	5	19	25			6/7/24 16:46	N	IV
K2404643-002	Chemical Oxygen Demand, Total	N/A		Water	8.55 mg/L	2 mL	25 mg/L U	5	19	25			6/7/24 16:46	N	IV
K2404674-001	Chemical Oxygen Demand, Total	N/A		Water	2.41 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			6/7/24 16:46	N	IV
KQ2406672-05	Chemical Oxygen Demand, Total	CCV		Water	52.55 mg/L	2 mL	52.5 mg/L	1					6/7/24 16:46	N	IV
KQ2406672-06	Chemical Oxygen Demand, Total	CCB		Water	-0.05 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			6/7/24 16:46	N	IV
K2404674-002	Chemical Oxygen Demand, Total	N/A		Water	-2.20 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			6/7/24 16:46	N	IV
K2404674-005	Chemical Oxygen Demand, Total	N/A		Water	11.87 mg/L	2 mL	11.9 mg/L	1	3.8	5.0			6/7/24 16:46	N	IV
K2404674-007	Chemical Oxygen Demand, Total	N/A		Water	24.97 mg/L	2 mL	25.0 mg/L	1	3.8	5.0			6/7/24 16:46	N	IV
K2404674-010	Chemical Oxygen Demand, Total	N/A		Water	2.41 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			6/7/24 16:46	N	IV
K2404674-011	Chemical Oxygen Demand, Total	N/A		Water	11.54 mg/L	2 mL	11.5 mg/L	1	3.8	5.0			6/7/24 16:46	Y	IV
KQ2406672-07	Chemical Oxygen Demand, Total	MS	R2404674-011	Water	36.43 mg/L	2 mL	36.4 mg/L	1	3.8	5.0	100		6/7/24 16:46	N	IV
KQ2406672-08	Chemical Oxygen Demand, Total	DMS	R2404674-011	Water	34.49 mg/L	2 mL	34.5 mg/L	1	3.8	5.0	92	5	6/7/24 16:46	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-UV-VIS-06 **Analyst:** SDUBE **Analysis Lot:** 843692 **Method/Testcode:** Hach 8000 (1979)/COD T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2404674-014	Chemical Oxygen Demand, Total	N/A		Water	1.01 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			6/7/24 16:46	N	IV
Q2406672-09	Chemical Oxygen Demand, Total	CCV		Water	52.79 mg/L	2 mL	52.8 mg/L	1					6/7/24 16:46	N	IV
Q2406672-10	Chemical Oxygen Demand, Total	CCB		Water	0.65 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			6/7/24 16:46	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-UV-VIS-06 **Analyst:** SDUBE **Analysis Lot:** 843693 **Method/Testcode:** Hach 8000 (1979)/COD T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2406674-01	Chemical Oxygen Demand, Total	CCV		Water	52.79 mg/L	2 mL	52.8 mg/L	1					6/7/24 16:46	N	IV
KQ2406674-02	Chemical Oxygen Demand, Total	CCB		Water	0.65 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			6/7/24 16:46	N	IV
KQ2406674-03	Chemical Oxygen Demand, Total	LCS		Water	52.79 mg/L	2 mL	52.8 mg/L	1	3.8	5.0	106		6/7/24 16:46	N	IV
KQ2406674-04	Chemical Oxygen Demand, Total	MB		Water	0.65 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			6/7/24 16:46	N	IV
K2404674-016	Chemical Oxygen Demand, Total	N/A		Water	1.36 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			6/7/24 16:46	N	IV
K2404694-001	Chemical Oxygen Demand, Total	N/A		Water	70.68 mg/L	2 mL	71 mg/L	5	19	25			6/7/24 16:46	N	IV
K2404694-002	Chemical Oxygen Demand, Total	N/A		Water	10.31 mg/L	2 mL	25 mg/L U	5	19	25			6/7/24 16:46	N	IV
K2404694-003	Chemical Oxygen Demand, Total	N/A		Water	22.45 mg/L	2 mL	22 mg/L J	5	19	25			6/7/24 16:46	N	IV
K2404694-004	Chemical Oxygen Demand, Total	N/A		Water	1.50 mg/L	2 mL	25 mg/L U	5	19	25			6/7/24 16:46	N	IV
K2404890-001	Chemical Oxygen Demand, Total	N/A		Water	21.35 mg/L	2 mL	21.3 mg/L	1	3.8	5.0			6/7/24 16:46	N	II
K2404891-001	Chemical Oxygen Demand, Total	N/A		Water	13.49 mg/L	2 mL	13.5 mg/L	1	3.8	5.0			6/7/24 16:46	N	II
K2404924-001	Chemical Oxygen Demand, Total	N/A		Water	10.88 mg/L	2 mL	10.9 mg/L	1	3.8	5.0			6/7/24 16:46	N	II
KQ2406674-05	Chemical Oxygen Demand, Total	CCV		Water	53.77 mg/L	2 mL	53.8 mg/L	1					6/7/24 16:46	N	II
KQ2406674-06	Chemical Oxygen Demand, Total	CCB		Water	-0.41 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			6/7/24 16:46	N	II

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Sample Dilutions

Final Volume: 8-10mL - COD

Analyst: SD
Instrument: R-UV-VIS-06

Date 6/11/24
Analysis COD

Common Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor
1/2		4	4	1/2												
1/3		3	6	1/3												
1/4		2	6	1/4												
1/5		2	8	1/5												
1/10		1	9	1/10												
1/20		1	1	1/2	1	9	1/20									
1/30		3	6	1/3	1	9	1/30									
1/40		1	3	1/4	1	9	1/40									
1/50		1	4	1/5	1	9	1/50									
1/100		1	9	1/10	1	9	1/100									
1/200		1	1	1/2	1	9	1/20	1	9	1/200						
1/300		3	6	1/3	1	9	1/30	1	9	1/300						
1/400		1	3	1/4	1	9	1/40	1	9	1/400						
1/500		1	4	1/5	1	9	1/50	1	9	1/500						
1/1000		1	9	1/10	1	9	1/100	1	9	1/1000						
1/2000		1	1	1/2	1	9	1/20	1	9	1/200	1	9	1/2000			
1/3000		3	6	1/3	1	9	1/30	1	9	1/300	1	9	1/3000			
1/4000		1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000			
1/10000		1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000			
1/20000		1	1	1/2	1	9	1/20	1	9	1/200	1	9	1/2000	1	9	1/20000
1/40000		1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000	1	9	1/40000
1/100000		1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000	1	9	1/100000

Special Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor
1/10	DI	1	9	1/10												
1/5	DI	2	8	1/5												

C:\Users\samantha.dube\Downloads\Sample Dilution Sheets R2 (5)Final Vol. 8-10mL (COD)

9/18/15

Analyte: Chemical Oxygen Demand
Method: 410.4 Manual Colorimetric
Spectrophotometer: MR21D

Analyst: SD
Date: 6/7/2024
Time: 14:01
Pipette(s): MAGNUS/HULK

Therm ID
COD Block 1: 272
COD Block 2: 273

Run Vial Lot #: 234217
Run Vial Check Date: 4/23/2024
Calibration Vial Lot #: 229115

Calibration: DOD Pipette Verification: N/A

Std	Conc.	% T.	Log % T.	mg/l
1	2000	13.7	1.137	1988.146
2	1500	22.1	1.344	1509.232
3	900	40.3	1.605	907.538
4	500	60.0	1.778	508.936
5	200	82.0	1.914	196.083
6	100	90.7	1.958	95.090
7	50	95.1	1.978	47.646
8	0	100.0	2.000	-2.672
9				
10				

Block 3 = 150°C. Verified Annually

C.C = -0.9999471 %RE low 4.7
y-int. = 1.9988414 %RE mid 0.6
Slope: -0.0004336
Wavelength: 620
Curve Date: 7/20/2023
Last LCR Verif: 1/17/2024 (due 6 months)

	1	2	3
Start Time:	12:01		
End Time:	14:01		
Block 1 (°C):			
Block 2 (°C):			

Block ID	Vial ID	Misc.	Order #	% T.	Log % T.	Result mg/L	Dilution	Final Result mg/L	Comments
		TV=500	ICV	60.3	1.780	503.9407	1.00	503.941	100.8
			ICB	100.0	2.000	-2.6718	1.00	-2.672	
3	1	TV=500	CCV/LCS	59.4	1.774	519.0016	1.00	519.002	103.8
3	2		CCB/MB	100.0	2.000	-2.6718	1.00	-2.672	
3	3		R2404841-001	40.3	1.605	907.5383	1.00	907.538	
3	4	RAN LL	R2404886-001	96.4	1.984	34.0483	1.00	34.048	
3	5		R2404777-002	84.8	1.928	162.4553	1.00	162.455	
3	6	RAN LL	R2404822-001	98.9	1.995	8.4061	1.00	8.406	
3	7		R2404840-002	53.1	1.725	631.2906	10.00	6312.906	
3	8		R2404840-004	65.5	1.816	421.0960	10.00	4210.960	
3	9		R2404840-005	76.1	1.881	270.8683	1.00	270.868	
3	10	RAN LL	R2404843-001	90.9	1.959	92.8845	1.00	92.884	
3	11		R2404674-008	76.4	1.883	266.9278	1.00	266.928	
3	12		R2404674-009	58.2	1.765	539.4417	1.00	539.442	
3	13	TV=500	CCV/LCS	59.6	1.775	515.6351	1.00	515.635	103.1
3	14		CCB/MB	99.9	2.000	-1.6698	1.00	-1.670	
3	15	RAN LL	R2404923-001	95.1	1.978	47.6463	1.00	47.646	
3	16		R2404693-003	79.7	1.901	224.5762	1.00	224.576	
3	17		R2404693-003 MS	55.9	1.747	579.8244	1.00	579.824	
3	18		R2404693-003 DMS	56.0	1.748	578.0344	1.00	578.034	
3	19		R2404719-001	56.6	1.753	567.3608	10.00	5673.608	
3	20		R2404777-001	34.7	1.540	1057.3792	1.00	1057.379	
3	21		R2404777-001 MS	25.4	1.405	1369.8473	1.00	1369.847	
3	22		R2404777-001 DMS	24.2	1.384	1418.3180	1.00	1418.318	
3	23		R2404798-002	77.3	1.888	255.1986	10.00	2551.986	
3	24		R2404840-001	51.4	1.711	663.8791	10.00	6638.791	
3	25	TV=500	CCV/LCS	59.8	1.777	512.2799	1.00	512.280	102.5
3	26		CCB/MB	99.8	1.999	-0.6667	1.00	-0.667	
3	27		R2404840-003	68.2	1.834	380.6398	10.00	3806.398	
3	28		R2404840-003 MS	50.1	1.700	689.5355	10.00	6895.355	
3	29		R2404840-003 DMS	50.1	1.700	689.5355	10.00	6895.355	
3	30		R2404842-001	77.0	1.886	259.0931	1.00	259.093	
3	31		R2404842-002	83.9	1.924	173.1415	1.00	173.142	

Analyte: Chemical Oxygen Demand
Method: 410.4 Manual Colorimetric
Spectrophotometer: MR21D

Analyst: SD
Date: 6/7/2024
Time: 14:01
Pipette(s): MAGNUS/HULK
DOD Pipette Verification: N/A

Calibration:

Std	Conc.	% T.	Log % T.	mg/l
1	2000	13.7	1.137	1988.146
2	1500	22.1	1.344	1509.232
3	900	40.3	1.605	907.538
4	500	60.0	1.778	508.936
5	200	82.0	1.914	196.083
6	100	90.7	1.958	95.090
7	50	95.1	1.978	47.646
8	0	100.0	2.000	-2.672
9				
10				

Block 3 = 150°C. Verified Annually

	Therm ID
COD Block 1	272
COD Block 2	273

Run Vial Lot #: 234217
Run Vial Check Date: 4/23/2024
Calibration Vial Lot #: 229115
C.C = -0.9999471 %RE low 4.7
y-int. = 1.9988414 %RE mid 0.6
Slope: -0.0004336
Wavelength: 620
Curve Date: 7/20/2023
Last LCR Verif: 1/17/2024 (due 6 months)

	1	2	3
Start Time:	12:01		
End Time:	14:01		
Block 1 (°C):			
Block 2 (°C):			

Block ID	Vial ID	Misc.	Order #	% T.	Log % T.	Result mg/L	Dilution	Final Result mg/L	Comments
3	32		R2404843-002	24.8	1.394	1393.7894	1.00	1393.789	
3	33		R2404857-001	34.5	1.538	1063.1684	1.00	1063.168	
3	34		R2404857-002	89.1	1.950	112.9157	1.00	112.916	
3	35		R2404858-001	91.7	1.962	84.1087	1.00	84.109	
3	36		R2404913-001	71.0	1.851	340.3429	10.00	3403.429	
3	37	TV=500	CCV/LCS	59.5	1.775	517.3170	1.00	517.317	103.5
3	38		CCB/MB	99.6	1.998	1.3424	1.00	1.342	
3	39		R2404922-001	85.8	1.933	150.7139	1.00	150.714	
3	40		R2404631-004	84.8	1.928	162.4553	10.00	1624.553	
3	41		R2404631-005	92.7	1.967	73.2460	1.00	73.246	
3	42		R2404647-002	83.7	1.923	175.5318	1.00	175.532	
3	43		R2404674-006	25.0	1.398	1385.7450	1.00	1385.745	
3	44		R2404674-013	77.5	1.889	252.6107	1.00	252.611	
3	45		CCV/LCS	59.8	1.777	512.2799	1.00	512.280	102.5
3	46		CCB/MB	99.6	1.998	1.3424	1.00	1.342	

Analyte: Chemical Oxygen Demand
Method: 410.4 Manual Colorimetric
Spectrophotometer: MR21D

Analyst: SD
Date: 6/7/2024
Time: 16:46
Pipette(s): MAGNUS/HULK
DOD Pipette Verification: N/A

Calibration:

Std	Conc.	% T.	Log % T.	mg/l
1	100	81.1	1.909	100.037
2	70	65.3	1.815	69.023
3	40	53.9	1.732	41.563
4	20	45.8	1.661	18.256
5	10	44.7	1.650	14.777
6	5	41.2	1.615	3.107
7	2	40.7	1.610	1.360
8	0	40.0	1.602	-1.123
9				
10				

Block 3 = 150°C Verified annually

	Therm ID
COD Block 1	272
COD Block 2	273

Run Vial Lot #: 234426
Date of Run Lot Check: 5/24/2024
Calibration Vial Lot: 229608
C.C = 0.998170 %RE low 37.9
y-int. = 1.605469 %RE mid 1.4
Slope: 0.003034
Wavelength: 420
Curve Date: 7/20/2023
Last LCR Verif: 1/17/2024 (due 6 months)

	1	2	3
Start Time:	14:46		
End Time:	16:46		
Block 1 (°C):	150		
Block 2 (°C):			

Block ID	Vial ID	Misc.	Order #	% T.	Log % T.	Result mg/L	Dilution	Final Result mg/L	Comments
		TV=50	ICV	56.9	1.755	49.3156	1.00	49.316	98.6
			ICB	40.0	1.602	-1.1234	1.00	-1.123	
3	1		CCV/LCS	58.4	1.766	53.0398	1.00	53.040	106.1
3	2		CCB/MB	40.0	1.602	-1.1234	1.00	-1.123	
3	3		R2404886-001	53.3	1.727	39.9612	1.00	39.961	
3	4	RAN HL	R2404777-002	109.3	2.039	142.7469	1.00	142.747	Repeat
3	5		R2404822-001	41.8	1.621	5.1765	1.00	5.176	
3	6	RAN HL	R2404840-005	163.9	2.215	200.7348	1.00	200.735	Repeat
3	7		R2404843-001	63.4	1.802	64.7971	1.00	64.797	
3	8	RAN HL	R2404674-008	164.2	2.215	200.9966	1.00	200.997	Repeat
3	9	RAN HL	R2404674-009	162.2	2.210	199.2426	1.00	199.243	Repeat
3	10		R2404892-001	44.7	1.650	14.7768	1.00	14.777	
3	11		R2404892-001 MS	53.4	1.728	40.2295	1.00	40.230	
3	12		R2404892-001 DMS	52.8	1.723	38.6123	1.00	38.612	
3	13		CCV/LCS	57.9	1.763	51.8092	1.00	51.809	103.6
3	14		CCB/MB	40.4	1.606	0.3008	1.00	0.301	
3	15		R2404923-001	52.0	1.716	36.4271	1.00	36.427	
3	16		R2404894-001	43.8	1.641	11.8657	1.00	11.866	
3	17		R2404894-001 MS	52.6	1.721	38.0691	1.00	38.069	
3	18		R2404894-001 DMS	52.2	1.718	36.9766	1.00	36.977	
3	19		R2404616-001	41.3	1.616	3.4542	1.00	3.454	
3	20		R2404617-001	59.4	1.774	55.4698	1.00	55.470	
3	21		R2404617-002	44.4	1.647	13.8130	1.00	13.813	
3	22		R2404617-003	48.0	1.681	24.9711	1.00	24.971	
3	23		R2404617-004	48.4	1.685	26.1589	1.00	26.159	
3	24		R2404631-008	77.1	1.887	92.7977	1.00	92.798	
3	25		CCV/LCS	58.2	1.765	52.5488	1.00	52.549	105.1
3	26		CCB/MB	40.2	1.604	-0.4095	1.00	-0.410	
3	27		R2404631-009	47.9	1.680	24.6727	1.00	24.673	
3	28		R2404631-010	70.5	1.848	79.9895	1.00	79.990	
3	29		R2404631-011	50.0	1.699	30.8137	1.00	30.814	
3	30		R2404631-011 MS	58.7	1.769	53.7731	1.00	53.773	
3	31		R2404631-011 DMS	58.8	1.769	54.0168	1.00	54.017	
3	32		R2404903-001	45.7	1.660	17.9434	1.00	17.943	
3	33		R2404909-004	42.5	1.628	7.5534	10.00	75.534	

Analyte: Chemical Oxygen Demand Analyst: SD

Method: 410.4 Manual Colorimetric Date: 6/7/2024

Spectrophotometer: MR21D Time: 16:46

Pipette(s): MAGNUS/HULK

Calibration: DOD Pipette Verification: N/A

Std	Conc.	% T.	Log % T.	mg/l
1	100	81.1	1.909	100.037
2	70	65.3	1.815	69.023
3	40	53.9	1.732	41.563
4	20	45.8	1.661	18.256
5	10	44.7	1.650	14.777
6	5	41.2	1.615	3.107
7	2	40.7	1.610	1.360
8	0	40.0	1.602	-1.123
9				
10				

Block 3 = 150°C Verified annually

	Therm ID
COD Block 1	272
COD Block 2	273

Run Vial Lot #: 234426

Date of Run Lot Check: 5/24/2024

Calibration Vial Lot: 229608

C.C = 0.998170 %RE low 37.9

y-int. = 1.605469 %RE mid 1.4

Slope: 0.003034

Wavelength: 420

Curve Date: 7/20/2023

Last LCR Verif: 1/17/2024 (due 6 months)

	1	2	3
Start Time:	14:46		
End Time:	16:46		
Block 1 (°C):	150		
Block 2 (°C):			

Block ID	Vial ID	Misc.	Order #	% T.	Log % T.	Result mg/L	Dilution	Final Result mg/L	Comments
3	34		R2404954-001	56.8	1.754	49.0639	1.00	49.064	
3	35		R2404954-001 MS	67.9	1.832	74.6114	1.00	74.611	
3	36		R2404954-001 DMS	68.0	1.833	74.8220	1.00	74.822	
3	37		CCV/LCS	58.1	1.764	52.3027	1.00	52.303	104.6
3	38		CCB/MB	40.0	1.602	-1.1234	1.00	-1.123	
3	39		R2404523-001	40.9	1.612	2.0612	5.00	10.306	
3	40		R2404523-002	41.1	1.614	2.7594	5.00	13.797	
3	41		R2404523-003	40.7	1.610	1.3596	5.00	6.798	
3	42		R2404591-001	40.1	1.603	-0.7660	5.00	-3.830	
3	43		R2404591-002	44.5	1.648	14.1350	5.00	70.675	
3	44		R2404591-003	41.3	1.616	3.4542	5.00	17.271	
3	45		R2404591-004	40.8	1.611	1.7108	5.00	8.554	
3	46		R2404643-001	40.7	1.610	1.3596	5.00	6.798	
3	47		R2404643-002	40.8	1.611	1.7108	5.00	8.554	
3	48		R2404674-001	41.0	1.613	2.4107	1.00	2.411	
3	49		CCV/LCS	58.2	1.765	52.5488	1.00	52.549	105.1
3	50		CCB/MB	40.3	1.605	-0.0540	1.00	-0.054	
3	51		R2404674-002	39.7	1.599	-2.2008	1.00	-2.201	
3	52		R2404674-005	43.8	1.641	11.8657	1.00	11.866	
3	53	RAN HL	R2404674-006	135.0	2.130	172.9715	1.00	172.971	Repeat
3	54		R2404674-007	48.0	1.681	24.9711	1.00	24.971	
3	55		R2404674-010	41.0	1.613	2.4107	1.00	2.411	
3	56		R2404674-011	43.7	1.640	11.5386	1.00	11.539	
1	57		R2404674-011 MS!	52.0	1.716	36.4271	1.00	36.427	
1	58		R2404674-011 DMS!	51.3	1.710	34.4874	1.00	34.487	
1	59	RAN HL	R2404674-013	164.4	2.216	201.1708	1.00	201.171	Repeat
1	60		R2404674-014	40.6	1.609	1.0075	1.00	1.008	
1	61		CCV/LCS	58.3	1.766	52.7945	1.00	52.795	105.6
1	62		CCB/MB	40.5	1.607	0.6546	1.00	0.655	
1	63		R2404674-016	40.7	1.610	1.3596	1.00	1.360	
1	64		R2404694-001	44.5	1.648	14.1350	5.00	70.675	
1	65		R2404694-002	40.9	1.612	2.0612	5.00	10.306	
1	66		R2404694-003	41.6	1.619	4.4900	5.00	22.450	
1	67		R2404694-004	40.4	1.606	0.3008	5.00	1.504	
1	68		R2404890-001	46.8	1.670	21.3476	1.00	21.348	

Analyte: Chemical Oxygen Demand
Method: 410.4 Manual Colorimetric
Spectrophotometer: MR21D

Analyst: SD
Date: 6/7/2024
Time: 16:46
Pipette(s): MAGNUS/HULK

Therm ID
COD Block 1: 272
COD Block 2: 273

Run Vial Lot #: 234426
Date of Run Lot Check: 5/24/2024
Calibration Vial Lot: 229608

Calibration: DOD Pipette Verification: N/A

Std	Conc.	% T.	Log % T.	mg/l
1	100	81.1	1.909	100.037
2	70	65.3	1.815	69.023
3	40	53.9	1.732	41.563
4	20	45.8	1.661	18.256
5	10	44.7	1.650	14.777
6	5	41.2	1.615	3.107
7	2	40.7	1.610	1.360
8	0	40.0	1.602	-1.123
9				
10				

Block 3 = 150°C Verified annually

C.C = 0.998170 %RE low 37.9
y-int. = 1.605469 %RE mid 1.4
Slope: 0.003034
Wavelength: 420
Curve Date: 7/20/2023
Last LCR Verif: 1/17/2024 (due 6 months)

	1	2	3
Start Time:	14:46		
End Time:	16:46		
Block 1 (°C):	150		
Block 2 (°C):			

Block ID	Vial ID	Misc.	Order #	% T.	Log % T.	Result mg/L	Dilution	Final Result mg/L	Comments
1	69		R2404891-001	44.3	1.646	13.4903	1.00	13.490	
1	70		R2404924-001	43.5	1.638	10.8820	1.00	10.882	
1	71		CCV/LCS	58.7	1.769	53.7731	1.00	53.773	107.5
1	72		CCB/MB	40.2	1.604	-0.4095	1.00	-0.410	

ALS Environmental
1565 Jefferson Rd., Rochester, NY 14623

General Chemistry Analytical Run Cover Sheet

Analyst: SD Date: 6/11/24

Analysis: COD High-Level Instrument: (R-UV-VIS-06) Milton-Roy Spec 21D

PRIMARY STOCKS	Log # Prep/Exp. Dates	Reagent	Weight (g)	Final Vol. (mLs)	Conc. (mg/L
Standard *	**230359** **Prep: 7/18/2023** **Expires: 7/18/2024**	KHP 230354 Exp: 6/21/27	8.5034	1000	10,000 (A)
Reference *	**230358** **Prep: 7/18/2023** **Expires: 7/18/2024**	KHP 210662 Exp: 2/11/25	4.2517	1000	5,000 (B)

Working Stock Prep	Serial Dilutions**			
	Stock Soln (mLs)	Stock Soln (mg/L)	Final Volume (mLs)	True Value (mg/L)
Reference	1	5,000	10	500 (D)

Quality Control					
	ICV/CCV/LCS	2.00	500 (D)	2	500
	MS/DMS	0.375	10,000 (A)	10	375

Standard Curve Prep	Concentration (mg/L)	mLs DI Water	mLs 10,000 mg/L Stock (A)
	2000.00	8.00	2.00
	1500.00	8.50	1.50
	900.00	9.10	0.90
	500.00	9.50	0.5
	200.000	9.80	0.2
	100.000	9.90	0.1
	50.000	1/10 dil'n of 500 mg/L Std.	

Comments:

For Standard Curve: Add 2.0 mL of each standard to a High Level COD vial
For ICV/CCV/LCS: Add 2.0 mL of Reference (D) to a High Level COD vial
For MS: Add 2.0 mL of the 10 mL solution to a High Level COD vial

** Prepare fresh daily

ALS Environmental
1565 Jefferson Rd., Rochester, NY 14623

General Chemistry Analytical Run Cover Sheet

Analyst: SD Date: 6/11/24

Analysis: COD Low-Level Instrument: (R-UV-VIS-06) Milton-Roy Spec 21D

PRIMARY STOCKS	Log # Prep/Exp. Dates	Reagent	Weight (g)	Final Vol. (mLs)	Conc. (mg/L
Standard *	**230359** **Prep: 7/18/2023** **Expires: 7/18/2024**	KHP 230354 Exp: 6/21/27	8.5034	1000	10,000 (A)
Reference *	**230358** **Prep: 7/18/2023** **Expires: 7/18/2024**	KHP 210662 Exp: 2/11/25	4.2517	1000	5,000 (B)

Working Stock Prep	Serial Dilutions**			
	Stock Soln (mLs)	Stock Soln (mg/L)	Final Volume (mLs)	True Value (mg/L)
Standard	1	10,000	10	1000 (C)
Reference	1	5,000	100	50 (D)

Quality Control				
ICV/CCV/LCS	2.00	50 (D)	2	50.00
MS/DMS	0.25	1000 (C)	10	0.25

Standard Curve Prep		
Concentration (mg/L)	mLs DI Water	mLs 1000 mg/L Working Stock (C)
100.00	9.00	1.00
70.00	9.30	0.70
40.00	9.60	0.40
20.00	9.8	0.2
10.000	9.9	0.1
5.000	9.95	0.05
2.000	9.98	0.02

Comments:

For Standard Curve: Add 2.0 mL of each standard to a Low Level COD vial
For ICV/CCV/LCS: Add 2.0 mL of Reference (D) to a Low Level COD vial
For MS: Add 2.0 mL of the 10 mL solution to a Low Level COD vial

** Prepare fresh daily

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KWONG **Analysis Lot:** 844219 **Method/Testcode:** 300.0/Chloride

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2406917-01	Chloride	CCV		Water	4.09 mg/L	10 mL	4.09 mg/L	1					6/14/24 06:47	N	IV
KQ2406917-01	Fluoride, undistilled	CCV		Water	2.01 mg/L	10 mL	2.01 mg/L	1					6/14/24 06:47	N	IV
KQ2406917-01	Sulfate	CCV		Water	3.86 mg/L	10 mL	3.86 mg/L	1					6/14/24 06:47	N	IV
KQ2406917-02	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			6/14/24 06:53	N	IV
KQ2406917-02	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/14/24 06:53	N	IV
KQ2406917-02	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			6/14/24 06:53	N	IV
KQ2406917-03	Chloride	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			6/14/24 06:53	N	IV
KQ2406917-03	Fluoride, undistilled	MB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/14/24 06:53	N	IV
KQ2406917-03	Sulfate	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			6/14/24 06:53	N	IV
KQ2406917-04	Chloride	LCS		Water	1.96 mg/L	10 mL	1.96 mg/L	1	0.05	0.20	98		6/14/24 06:59	N	IV
KQ2406917-04	Fluoride, undistilled	LCS		Water	0.98 mg/L	10 mL	0.981 mg/L	1	0.010	0.10	98		6/14/24 06:59	N	IV
KQ2406917-04	Sulfate	LCS		Water	1.88 mg/L	10 mL	1.88 mg/L	1	0.04	0.20	94		6/14/24 06:59	N	IV
K2404816-001	Fluoride, undistilled	N/A		Water	0.28 mg/L	10 mL	0.28 mg/L	1	0.010	0.10			6/14/24 07:45	N	IV
K2404816-001	Chloride	N/A		Water	71.93 mg/L	10 mL	71.9 mg/L	10	0.5	2.0			6/14/24 07:51	N	IV
K2404816-001	Sulfate	N/A		Water	26.53 mg/L	10 mL	26.5 mg/L	10	0.4	2.0			6/14/24 07:51	N	IV
K2404816-003	Fluoride, undistilled	N/A		Water	0.04 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/14/24 07:57	N	IV
K2404816-003	Sulfate	N/A		Water	5.82 mg/L	10 mL	5.82 mg/L	1	0.04	0.20			6/14/24 07:57	N	IV
K2404816-003	Chloride	N/A		Water	12.48 mg/L	10 mL	12.5 mg/L	10	0.5	2.0			6/14/24 08:04	N	IV
K2404816-005	Fluoride, undistilled	N/A		Water	0.04 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/14/24 08:10	N	IV
K2404816-005	Sulfate	N/A		Water	7.23 mg/L	10 mL	7.23 mg/L	1	0.04	0.20			6/14/24 08:10	N	IV
K2404816-005	Chloride	N/A		Water	31.14 mg/L	10 mL	31.1 mg/L	10	0.5	2.0			6/14/24 08:16	N	IV
K2404816-007	Fluoride, undistilled	N/A		Water	0.04 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/14/24 08:22	N	IV
K2404816-007	Sulfate	N/A		Water	7.62 mg/L	10 mL	7.62 mg/L	1	0.04	0.20			6/14/24 08:22	N	IV
K2404816-007	Chloride	N/A		Water	42.64 mg/L	10 mL	42.6 mg/L	10	0.5	2.0			6/14/24 08:29	N	IV
K2404888-001	Fluoride, undistilled	N/A		Water	0.04 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/14/24 08:35	N	IV
K2404888-001	Sulfate	N/A		Water	9.56 mg/L	10 mL	9.56 mg/L	1	0.04	0.20			6/14/24 08:35	N	IV
KQ2406917-05	Chloride	CCV		Water	4.15 mg/L	10 mL	4.15 mg/L	1					6/14/24 08:41	N	IV
KQ2406917-05	Fluoride, undistilled	CCV		Water	2.05 mg/L	10 mL	2.05 mg/L	1					6/14/24 08:41	N	IV
KQ2406917-05	Sulfate	CCV		Water	3.93 mg/L	10 mL	3.93 mg/L	1					6/14/24 08:41	N	IV
KQ2406917-06	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			6/14/24 08:47	N	IV
KQ2406917-06	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/14/24 08:47	N	IV
KQ2406917-06	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			6/14/24 08:47	N	IV
K2404888-001	Chloride	N/A		Water	46.97 mg/L	10 mL	47.0 mg/L	10	0.5	2.0			6/14/24 08:54	N	IV
K2404888-003	Fluoride, undistilled	N/A		Water	0.06 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/14/24 09:00	N	IV
K2404888-003	Sulfate	N/A		Water	17.39 mg/L	10 mL	17.4 mg/L	10	0.4	2.0			6/14/24 09:06	N	IV
K2404888-005	Fluoride, undistilled	N/A		Water	0.05 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/14/24 09:25	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KWONG **Analysis Lot:** 844219 **Method/Testcode:** 300.0/Chloride

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R2404888-005	Chloride	N/A		Water	66.81 mg/L	10 mL	66.8 mg/L	10	0.5	2.0			6/14/24 09:31	N	IV
R2404888-005	Sulfate	N/A		Water	9.65 mg/L	10 mL	9.7 mg/L	10	0.4	2.0			6/14/24 09:31	N	IV
RQ2406917-11	Chloride	MS	R2404888-005	Water	82.27 mg/L	10 mL	82.3 mg/L	10	0.5	2.0	77*		6/14/24 09:38	N	IV
RQ2406917-11	Sulfate	MS	R2404888-005	Water	27.91 mg/L	10 mL	27.9 mg/L	10	0.4	2.0	91		6/14/24 09:38	N	IV
RQ2406917-12	Chloride	DMS	R2404888-005	Water	82.35 mg/L	10 mL	82.3 mg/L	10	0.5	2.0	78*	<1	6/14/24 09:44	N	IV
RQ2406917-12	Sulfate	DMS	R2404888-005	Water	27.97 mg/L	10 mL	28.0 mg/L	10	0.4	2.0	92	<1	6/14/24 09:44	N	IV
R2404888-007	Fluoride, undistilled	N/A		Water	0.05 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/14/24 09:50	N	IV
R2404888-007	Sulfate	N/A		Water	6.30 mg/L	10 mL	6.30 mg/L	1	0.04	0.20			6/14/24 09:50	N	IV
RQ2406917-07	Chloride	CCV		Water	4.12 mg/L	10 mL	4.12 mg/L	1					6/14/24 09:57	N	IV
RQ2406917-07	Fluoride, undistilled	CCV		Water	2.04 mg/L	10 mL	2.04 mg/L	1					6/14/24 09:57	N	IV
RQ2406917-07	Sulfate	CCV		Water	3.90 mg/L	10 mL	3.90 mg/L	1					6/14/24 09:57	N	IV
RQ2406917-08	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			6/14/24 10:03	N	IV
RQ2406917-08	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/14/24 10:03	N	IV
RQ2406917-08	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			6/14/24 10:03	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KWONG **Analysis Lot:** 844220 **Method/Testcode:** 300.0/Br

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2Q2406991-01	Bromide	CCV		Water	2.00 mg/L	10 mL	2.00 mg/L	1					6/14/24 09:57	N	IV
2Q2406991-01	Chloride	CCV		Water	4.12 mg/L	10 mL	4.12 mg/L	1					6/14/24 09:57	N	IV
2Q2406991-01	Fluoride, undistilled	CCV		Water	2.04 mg/L	10 mL	2.04 mg/L	1					6/14/24 09:57	N	IV
2Q2406991-01	Nitrate as Nitrogen	CCV		Water	2.04 mg/L	10 mL	2.04 mg/L	1					6/14/24 09:57	N	IV
2Q2406991-01	Sulfate	CCV		Water	3.90 mg/L	10 mL	3.90 mg/L	1					6/14/24 09:57	N	IV
2Q2406991-02	Bromide	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.04	0.10			6/14/24 10:03	N	IV
2Q2406991-02	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			6/14/24 10:03	N	IV
2Q2406991-02	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/14/24 10:03	N	IV
2Q2406991-02	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			6/14/24 10:03	N	IV
2Q2406991-02	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			6/14/24 10:03	N	IV
2Q2406991-03	Bromide	MB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.04	0.10			6/14/24 10:03	N	IV
2Q2406991-03	Chloride	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			6/14/24 10:03	N	IV
2Q2406991-03	Fluoride, undistilled	MB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/14/24 10:03	N	IV
2Q2406991-03	Nitrate as Nitrogen	MB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			6/14/24 10:03	N	IV
2Q2406991-03	Sulfate	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			6/14/24 10:03	N	IV
2Q2406991-04	Bromide	LCS		Water	1.02 mg/L	10 mL	1.02 mg/L	1	0.04	0.10	102		6/14/24 10:09	N	IV
2Q2406991-04	Chloride	LCS		Water	1.98 mg/L	10 mL	1.98 mg/L	1	0.05	0.20	99		6/14/24 10:09	N	IV
2Q2406991-04	Fluoride, undistilled	LCS		Water	1.00 mg/L	10 mL	0.998 mg/L	1	0.010	0.10	100		6/14/24 10:09	N	IV
2Q2406991-04	Nitrate as Nitrogen	LCS		Water	0.99 mg/L	10 mL	0.994 mg/L	1	0.02	0.10	99		6/14/24 10:09	N	IV
2Q2406991-04	Sulfate	LCS		Water	1.90 mg/L	10 mL	1.90 mg/L	1	0.04	0.20	95		6/14/24 10:09	N	IV
2404888-009	Fluoride, undistilled	N/A		Water	0.08 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/14/24 10:15	N	IV
2404888-009	Sulfate	N/A		Water	4.95 mg/L	10 mL	4.95 mg/L	1	0.04	0.20			6/14/24 10:15	N	IV
2404888-011	Fluoride, undistilled	N/A		Water	0.04 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/14/24 10:22	N	IV
2404888-011	Sulfate	N/A		Water	9.30 mg/L	10 mL	9.30 mg/L	1	0.04	0.20			6/14/24 10:22	N	IV
2404888-013	Fluoride, undistilled	N/A		Water	0.08 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/14/24 10:28	N	IV
2404888-013	Sulfate	N/A		Water	6.27 mg/L	10 mL	6.27 mg/L	1	0.04	0.20			6/14/24 10:28	N	IV
2404888-015	Fluoride, undistilled	N/A		Water	0.04 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/14/24 10:35	N	IV
2404888-015	Sulfate	N/A		Water	9.96 mg/L	10 mL	9.96 mg/L	1	0.04	0.20			6/14/24 10:35	N	IV
2404888-017	Fluoride, undistilled	N/A		Water	0.05 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/14/24 10:42	N	IV
2404888-017	Sulfate	N/A		Water	2.08 mg/L	10 mL	2.08 mg/L	1	0.04	0.20			6/14/24 10:42	N	IV
2404888-019	Fluoride, undistilled	N/A		Water	0.05 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/14/24 10:48	N	IV
2404888-019	Sulfate	N/A		Water	6.71 mg/L	10 mL	6.71 mg/L	1	0.04	0.20			6/14/24 10:48	N	IV
2404888-021	Fluoride, undistilled	N/A		Water	0.05 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/14/24 10:54	Y	IV
2404888-021	Sulfate	N/A		Water	7.47 mg/L	10 mL	7.47 mg/L	1	0.04	0.20			6/14/24 10:54	Y	IV
2Q2406991-05	Fluoride, undistilled	MS	R2404888-021	Water	1.12 mg/L	10 mL	1.12 mg/L	1	0.010	0.10	112*		6/14/24 11:01	N	IV
2Q2406991-05	Sulfate	MS	R2404888-021	Water	9.40 mg/L	10 mL	9.40 mg/L	1	0.04	0.20	97		6/14/24 11:01	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KWONG **Analysis Lot:** 844220 **Method/Testcode:** 300.0/F

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2406991-06	Fluoride, undistilled	DMS	R2404888-021	Water	1.11 mg/L	10 mL	1.11 mg/L	1	0.010	0.10	111*	<1	6/14/24 11:07	N	IV
KQ2406991-06	Sulfate	DMS	R2404888-021	Water	9.33 mg/L	10 mL	9.33 mg/L	1	0.04	0.20	93	<1	6/14/24 11:07	N	IV
KQ2406991-07	Bromide	CCV		Water	2.02 mg/L	10 mL	2.02 mg/L	1					6/14/24 11:14	N	IV
KQ2406991-07	Chloride	CCV		Water	4.17 mg/L	10 mL	4.17 mg/L	1					6/14/24 11:14	N	IV
KQ2406991-07	Fluoride, undistilled	CCV		Water	2.06 mg/L	10 mL	2.06 mg/L	1					6/14/24 11:14	N	IV
KQ2406991-07	Nitrate as Nitrogen	CCV		Water	2.07 mg/L	10 mL	2.07 mg/L	1					6/14/24 11:14	N	IV
KQ2406991-07	Sulfate	CCV		Water	3.94 mg/L	10 mL	3.94 mg/L	1					6/14/24 11:14	N	IV
KQ2406991-08	Bromide	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.04	0.10			6/14/24 11:20	N	IV
KQ2406991-08	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			6/14/24 11:20	N	IV
KQ2406991-08	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/14/24 11:20	N	IV
KQ2406991-08	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			6/14/24 11:20	N	IV
KQ2406991-08	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			6/14/24 11:20	N	IV
K2404888-023	Chloride	N/A		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			6/14/24 11:26	N	IV
K2404888-023	Fluoride, undistilled	N/A		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/14/24 11:26	N	IV
K2404888-023	Sulfate	N/A		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			6/14/24 11:26	N	IV
K2405309-013	Bromide	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.4	1.0			6/14/24 12:23	N	IV
K2405309-013	Chloride	N/A		Water	46.40 mg/L	10 mL	46.4 mg/L	10	0.5	2.0			6/14/24 12:23	N	IV
K2405309-013	Nitrate as Nitrogen	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			6/14/24 12:23	N	IV
K2405309-013	Sulfate	N/A		Water	11.42 mg/L	10 mL	11.4 mg/L	10	0.4	2.0			6/14/24 12:23	N	IV
KQ2406991-09	Bromide	MS	R2405309-013	Water	10.00 mg/L	10 mL	10.0 mg/L	10	0.4	1.0	100		6/14/24 12:30	N	IV
KQ2406991-09	Chloride	MS	R2405309-013	Water	63.04 mg/L	10 mL	63.0 mg/L	10	0.5	2.0	83*		6/14/24 12:30	N	IV
KQ2406991-09	Nitrate as Nitrogen	MS	R2405309-013	Water	9.61 mg/L	10 mL	9.6 mg/L	10	0.2	1.0	96		6/14/24 12:30	N	IV
KQ2406991-09	Sulfate	MS	R2405309-013	Water	29.49 mg/L	10 mL	29.5 mg/L	10	0.4	2.0	90		6/14/24 12:30	N	IV
KQ2406991-10	Bromide	DMS	R2405309-013	Water	10.03 mg/L	10 mL	10.0 mg/L	10	0.4	1.0	100	<1	6/14/24 12:36	N	IV
KQ2406991-10	Chloride	DMS	R2405309-013	Water	62.81 mg/L	10 mL	62.8 mg/L	10	0.5	2.0	82*	<1	6/14/24 12:36	N	IV
KQ2406991-10	Nitrate as Nitrogen	DMS	R2405309-013	Water	9.65 mg/L	10 mL	9.6 mg/L	10	0.2	1.0	96	<1	6/14/24 12:36	N	IV
KQ2406991-10	Sulfate	DMS	R2405309-013	Water	29.67 mg/L	10 mL	29.7 mg/L	10	0.4	2.0	91	<1	6/14/24 12:36	N	IV
K2405328-001	Bromide	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.4	1.0			6/14/24 12:42	N	II
K2405328-001	Chloride	N/A		Water	51.61 mg/L	10 mL	51.6 mg/L	10	0.5	2.0			6/14/24 12:42	N	II
K2405328-001	Nitrate as Nitrogen	N/A		Water	0.61 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			6/14/24 12:42	N	II
K2405328-001	Sulfate	N/A		Water	15.84 mg/L	10 mL	15.8 mg/L	10	0.4	2.0			6/14/24 12:42	N	II
K2405328-002	Bromide	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.4	1.0			6/14/24 12:48	N	II
K2405328-002	Chloride	N/A		Water	77.88 mg/L	10 mL	77.9 mg/L	10	0.5	2.0			6/14/24 12:48	N	II
K2405328-002	Nitrate as Nitrogen	N/A		Water	0.39 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			6/14/24 12:48	N	II
K2405328-002	Sulfate	N/A		Water	2.17 mg/L	10 mL	2.2 mg/L	10	0.4	2.0			6/14/24 12:48	N	II
K2405328-003	Bromide	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.4	1.0			6/14/24 12:55	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KWONG **Analysis Lot:** 844220 **Method/Testcode:** 300.0/Chloride

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2405328-003	Chloride	N/A		Water	71.57 mg/L	10 mL	71.6 mg/L	10	0.5	2.0			6/14/24 12:55	N	II
2405328-003	Nitrate as Nitrogen	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			6/14/24 12:55	N	II
2405328-003	Sulfate	N/A		Water	0.00 mg/L	10 mL	2.0 mg/L U	10	0.4	2.0			6/14/24 12:55	N	II
2405328-004	Bromide	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.4	1.0			6/14/24 13:01	N	II
2405328-004	Chloride	N/A		Water	44.01 mg/L	10 mL	44.0 mg/L	10	0.5	2.0			6/14/24 13:01	N	II
2405328-004	Nitrate as Nitrogen	N/A		Water	0.48 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			6/14/24 13:01	N	II
2405328-004	Sulfate	N/A		Water	9.79 mg/L	10 mL	9.8 mg/L	10	0.4	2.0			6/14/24 13:01	N	II
2405328-005	Bromide	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.4	1.0			6/14/24 13:07	N	II
2405328-005	Chloride	N/A		Water	45.10 mg/L	10 mL	45.1 mg/L	10	0.5	2.0			6/14/24 13:07	N	II
2405328-005	Nitrate as Nitrogen	N/A		Water	0.43 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			6/14/24 13:07	N	II
2405328-005	Sulfate	N/A		Water	9.61 mg/L	10 mL	9.6 mg/L	10	0.4	2.0			6/14/24 13:07	N	II
2405328-006	Bromide	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.4	1.0			6/14/24 13:14	N	II
2405328-006	Chloride	N/A		Water	51.17 mg/L	10 mL	51.2 mg/L	10	0.5	2.0			6/14/24 13:14	N	II
2405328-006	Nitrate as Nitrogen	N/A		Water	0.67 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			6/14/24 13:14	N	II
2405328-006	Sulfate	N/A		Water	16.61 mg/L	10 mL	16.6 mg/L	10	0.4	2.0			6/14/24 13:14	N	II
Q2406991-11	Bromide	CCV		Water	2.01 mg/L	10 mL	2.01 mg/L	1					6/14/24 13:20	N	II
Q2406991-11	Chloride	CCV		Water	4.13 mg/L	10 mL	4.13 mg/L	1					6/14/24 13:20	N	II
Q2406991-11	Fluoride, undistilled	CCV		Water	2.02 mg/L	10 mL	2.02 mg/L	1					6/14/24 13:20	N	II
Q2406991-11	Nitrate as Nitrogen	CCV		Water	2.05 mg/L	10 mL	2.05 mg/L	1					6/14/24 13:20	N	II
Q2406991-11	Sulfate	CCV		Water	3.88 mg/L	10 mL	3.88 mg/L	1					6/14/24 13:20	N	II
Q2406991-12	Bromide	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.04	0.10			6/14/24 13:26	N	II
Q2406991-12	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			6/14/24 13:26	N	II
Q2406991-12	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/14/24 13:26	N	II
Q2406991-12	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			6/14/24 13:26	N	II
Q2406991-12	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			6/14/24 13:26	N	II
2405327-001	Bromide	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.4	1.0			6/14/24 13:33	N	II
2405327-001	Nitrate as Nitrogen	N/A		Water	0.25 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			6/14/24 13:33	N	II
2405327-001	Sulfate	N/A		Water	21.29 mg/L	10 mL	21.3 mg/L	10	0.4	2.0			6/14/24 13:33	N	II
2405327-002	Bromide	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.4	1.0			6/14/24 13:39	N	II
2405327-002	Nitrate as Nitrogen	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			6/14/24 13:39	N	II
2405327-002	Sulfate	N/A		Water	0.00 mg/L	10 mL	2.0 mg/L U	10	0.4	2.0			6/14/24 13:39	N	II
2405327-003	Bromide	N/A		Water	2.80 mg/L	10 mL	2.8 mg/L	10	0.4	1.0			6/14/24 13:45	N	II
2405327-003	Nitrate as Nitrogen	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			6/14/24 13:45	N	II
2405327-003	Sulfate	N/A		Water	0.39 mg/L	10 mL	2.0 mg/L U	10	0.4	2.0			6/14/24 13:45	N	II
2405327-004	Bromide	N/A		Water	1.66 mg/L	10 mL	1.7 mg/L	10	0.4	1.0			6/14/24 13:52	N	II
2405327-004	Nitrate as Nitrogen	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			6/14/24 13:52	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KWONG **Analysis Lot:** 844220 **Method/Testcode:** 300.0/SO4

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2405327-004	Sulfate	N/A		Water	0.00 mg/L	10 mL	2.0 mg/L U	10	0.4	2.0			6/14/24 13:52	N	II
2405327-005	Bromide	N/A		Water	1.05 mg/L	10 mL	1.1 mg/L	10	0.4	1.0			6/14/24 13:58	N	II
2405327-005	Nitrate as Nitrogen	N/A		Water	0.45 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			6/14/24 13:58	N	II
2405327-005	Sulfate	N/A		Water	64.92 mg/L	10 mL	64.9 mg/L	10	0.4	2.0			6/14/24 13:58	N	II
Q2406991-13	Bromide	CCV		Water	2.02 mg/L	10 mL	2.02 mg/L	1					6/14/24 14:04:40	N	II
Q2406991-13	Chloride	CCV		Water	4.13 mg/L	10 mL	4.13 mg/L	1					6/14/24 14:04:40	N	II
Q2406991-13	Fluoride, undistilled	CCV		Water	2.03 mg/L	10 mL	2.03 mg/L	1					6/14/24 14:04:40	N	II
Q2406991-13	Nitrate as Nitrogen	CCV		Water	2.05 mg/L	10 mL	2.05 mg/L	1					6/14/24 14:04:40	N	II
Q2406991-13	Sulfate	CCV		Water	3.92 mg/L	10 mL	3.92 mg/L	1					6/14/24 14:04:40	N	II
Q2406991-14	Bromide	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.04	0.10			6/14/24 14:10:57	N	II
Q2406991-14	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			6/14/24 14:10:57	N	II
Q2406991-14	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/14/24 14:10:57	N	II
Q2406991-14	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			6/14/24 14:10:57	N	II
Q2406991-14	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			6/14/24 14:10:57	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 844312 **Method/Testcode:** 300.0/Chloride

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ2406920-01	Chloride	CCV		Water	4.13 mg/L	10 mL	4.13 mg/L	1					6/14/24 14:04	N	IV
RQ2406920-01	Fluoride, undistilled	CCV		Water	2.03 mg/L	10 mL	2.03 mg/L	1					6/14/24 14:04	N	IV
RQ2406920-01	Sulfate	CCV		Water	3.92 mg/L	10 mL	3.92 mg/L	1					6/14/24 14:04	N	IV
RQ2406920-02	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			6/14/24 14:10	N	IV
RQ2406920-02	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/14/24 14:10	N	IV
RQ2406920-02	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			6/14/24 14:10	N	IV
RQ2406920-03	Chloride	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			6/14/24 14:10	N	IV
RQ2406920-03	Fluoride, undistilled	MB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/14/24 14:10	N	IV
RQ2406920-03	Sulfate	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			6/14/24 14:10	N	IV
RQ2406920-04	Chloride	LCS		Water	1.98 mg/L	10 mL	1.98 mg/L	1	0.05	0.20	99		6/14/24 19:04	N	IV
RQ2406920-04	Fluoride, undistilled	LCS		Water	0.98 mg/L	10 mL	0.979 mg/L	1	0.010	0.10	98		6/14/24 19:04	N	IV
RQ2406920-04	Sulfate	LCS		Water	1.88 mg/L	10 mL	1.88 mg/L	1	0.04	0.20	94		6/14/24 19:04	N	IV
R2404888-003	Chloride	N/A		Water	106.73 mg/L	10 mL	107 mg/L	20	0.9	4.0			6/14/24 19:10	N	IV
R2404888-007	Chloride	N/A		Water	12.23 mg/L	10 mL	12.2 mg/L	10	0.5	2.0			6/14/24 19:17	N	IV
RQ2406920-05	Chloride	MS	R2404888-007	Water	32.00 mg/L	10 mL	32.0 mg/L	10	0.5	2.0	99		6/14/24 19:23	N	IV
RQ2406920-06	Chloride	DMS	R2404888-007	Water	32.26 mg/L	10 mL	32.3 mg/L	10	0.5	2.0	100	<1	6/14/24 19:29	N	IV
R2404888-009	Chloride	N/A		Water	29.81 mg/L	10 mL	29.8 mg/L	10	0.5	2.0			6/14/24 19:36	N	IV
R2404888-011	Chloride	N/A		Water	52.35 mg/L	10 mL	52.3 mg/L	10	0.5	2.0			6/14/24 19:42	N	IV
R2404888-013	Chloride	N/A		Water	31.06 mg/L	10 mL	31.1 mg/L	10	0.5	2.0			6/14/24 19:48	N	IV
R2404888-015	Chloride	N/A		Water	26.21 mg/L	10 mL	26.2 mg/L	10	0.5	2.0			6/14/24 19:54	N	IV
R2404888-017	Chloride	N/A		Water	17.70 mg/L	10 mL	17.7 mg/L	10	0.5	2.0			6/14/24 20:01	N	IV
RQ2406920-07	Chloride	CCV		Water	4.14 mg/L	10 mL	4.14 mg/L	1					6/14/24 20:07	N	IV
RQ2406920-07	Fluoride, undistilled	CCV		Water	2.04 mg/L	10 mL	2.04 mg/L	1					6/14/24 20:07	N	IV
RQ2406920-07	Sulfate	CCV		Water	3.90 mg/L	10 mL	3.90 mg/L	1					6/14/24 20:07	N	IV
RQ2406920-08	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			6/14/24 20:13	N	IV
RQ2406920-08	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/14/24 20:13	N	IV
RQ2406920-08	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			6/14/24 20:13	N	IV
R2404888-019	Chloride	N/A		Water	30.97 mg/L	10 mL	31.0 mg/L	10	0.5	2.0			6/14/24 20:20	N	IV
R2404888-021	Chloride	N/A		Water	32.05 mg/L	10 mL	32.1 mg/L	10	0.5	2.0			6/14/24 20:26	Y	IV
RQ2406920-09	Chloride	MS	R2404888-021	Water	49.28 mg/L	10 mL	49.3 mg/L	10	0.5	2.0	86*		6/14/24 20:32	N	IV
RQ2406920-10	Chloride	DMS	R2404888-021	Water	49.48 mg/L	10 mL	49.5 mg/L	10	0.5	2.0	87*	<1	6/14/24 20:38	N	IV
R2404659-005	Fluoride, undistilled	N/A		Water	0.08 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/14/24 20:45	N	IV
R2404659-005	Sulfate	N/A		Water	4.75 mg/L	10 mL	4.75 mg/L	1	0.04	0.20			6/14/24 20:45	N	IV
R2404659-005	Chloride	N/A		Water	42.03 mg/L	10 mL	42.0 mg/L	10	0.5	2.0			6/14/24 20:51	N	IV
R2404659-007	Fluoride, undistilled	N/A		Water	0.08 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/14/24 20:57	N	IV
R2404659-007	Sulfate	N/A		Water	4.72 mg/L	10 mL	4.72 mg/L	1	0.04	0.20			6/14/24 20:57	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 844312 **Method/Testcode:** 300.0/Chloride

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2404659-007	Chloride	N/A		Water	42.17 mg/L	10 mL	42.2 mg/L	10	0.5	2.0			6/14/24 21:03	N	IV
2404659-009	Fluoride, undistilled	N/A		Water	0.08 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/14/24 21:10	N	IV
2404659-009	Sulfate	N/A		Water	4.77 mg/L	10 mL	4.77 mg/L	1	0.04	0.20			6/14/24 21:10	N	IV
2404659-009	Chloride	N/A		Water	41.10 mg/L	10 mL	41.1 mg/L	10	0.5	2.0			6/14/24 21:16	N	IV
Q2406920-11	Chloride	CCV		Water	4.15 mg/L	10 mL	4.15 mg/L	1					6/14/24 21:22	N	IV
Q2406920-11	Fluoride, undistilled	CCV		Water	2.05 mg/L	10 mL	2.05 mg/L	1					6/14/24 21:22	N	IV
Q2406920-11	Sulfate	CCV		Water	3.92 mg/L	10 mL	3.92 mg/L	1					6/14/24 21:22	N	IV
Q2406920-12	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			6/14/24 21:29	N	IV
Q2406920-12	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/14/24 21:29	N	IV
Q2406920-12	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			6/14/24 21:29	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 844315 **Method/Testcode:** 300.0/Chloride

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2406992-01	Chloride	CCV		Water	4.15 mg/L	10 mL	4.15 mg/L	1					6/14/24 21:22	N	IV
KQ2406992-01	Fluoride, undistilled	CCV		Water	2.05 mg/L	10 mL	2.05 mg/L	1					6/14/24 21:22	N	IV
KQ2406992-01	Sulfate	CCV		Water	3.92 mg/L	10 mL	3.92 mg/L	1					6/14/24 21:22	N	IV
KQ2406992-02	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			6/14/24 21:29	N	IV
KQ2406992-02	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/14/24 21:29	N	IV
KQ2406992-02	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			6/14/24 21:29	N	IV
KQ2406992-03	Chloride	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			6/14/24 21:29	N	IV
KQ2406992-03	Fluoride, undistilled	MB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/14/24 21:29	N	IV
KQ2406992-03	Sulfate	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			6/14/24 21:29	N	IV
KQ2406992-04	Chloride	LCS		Water	2.03 mg/L	10 mL	2.03 mg/L	1	0.05	0.20	101		6/14/24 21:35	N	IV
KQ2406992-04	Fluoride, undistilled	LCS		Water	1.02 mg/L	10 mL	1.02 mg/L	1	0.010	0.10	102		6/14/24 21:35	N	IV
KQ2406992-04	Sulfate	LCS		Water	1.94 mg/L	10 mL	1.94 mg/L	1	0.04	0.20	97		6/14/24 21:35	N	IV
K2404675-001	Chloride	N/A		Water	41.56 mg/L	10 mL	41.6 mg/L	10	0.5	2.0			6/14/24 21:41	N	IV
K2404675-001	Sulfate	N/A		Water	4.57 mg/L	10 mL	4.6 mg/L	10	0.4	2.0			6/14/24 21:41	N	IV
K2404675-003	Chloride	N/A		Water	42.09 mg/L	10 mL	42.1 mg/L	10	0.5	2.0			6/14/24 21:48	N	IV
K2404675-003	Sulfate	N/A		Water	4.45 mg/L	10 mL	4.4 mg/L	10	0.4	2.0			6/14/24 21:48	N	IV
K2404675-005	Chloride	N/A		Water	41.83 mg/L	10 mL	41.8 mg/L	10	0.5	2.0			6/14/24 21:54	N	IV
K2404675-005	Sulfate	N/A		Water	4.50 mg/L	10 mL	4.5 mg/L	10	0.4	2.0			6/14/24 21:54	N	IV
K2404675-007	Chloride	N/A		Water	42.26 mg/L	10 mL	42.3 mg/L	10	0.5	2.0			6/14/24 22:00	N	IV
K2404675-007	Sulfate	N/A		Water	4.26 mg/L	10 mL	4.3 mg/L	10	0.4	2.0			6/14/24 22:00	N	IV
K2404675-009	Chloride	N/A		Water	41.78 mg/L	10 mL	41.8 mg/L	10	0.5	2.0			6/14/24 22:06	N	IV
K2404675-009	Sulfate	N/A		Water	4.43 mg/L	10 mL	4.4 mg/L	10	0.4	2.0			6/14/24 22:06	N	IV
K2404675-011	Chloride	N/A		Water	45.47 mg/L	10 mL	45.5 mg/L	10	0.5	2.0			6/14/24 22:13	N	IV
K2404675-013	Chloride	N/A		Water	41.86 mg/L	10 mL	41.9 mg/L	10	0.5	2.0			6/14/24 22:19	N	IV
K2404675-013	Sulfate	N/A		Water	4.55 mg/L	10 mL	4.5 mg/L	10	0.4	2.0			6/14/24 22:19	N	IV
KQ2406992-05	Chloride	MS	R2404675-013	Water	59.43 mg/L	10 mL	59.4 mg/L	10	0.5	2.0	88*		6/14/24 22:25	N	IV
KQ2406992-05	Sulfate	MS	R2404675-013	Water	23.43 mg/L	10 mL	23.4 mg/L	10	0.4	2.0	94		6/14/24 22:25	N	IV
KQ2406992-06	Chloride	DMS	R2404675-013	Water	59.40 mg/L	10 mL	59.4 mg/L	10	0.5	2.0	88*	<1	6/14/24 22:32	N	IV
KQ2406992-06	Sulfate	DMS	R2404675-013	Water	23.54 mg/L	10 mL	23.5 mg/L	10	0.4	2.0	95	<1	6/14/24 22:32	N	IV
KQ2406992-07	Chloride	CCV		Water	4.19 mg/L	10 mL	4.19 mg/L	1					6/14/24 22:38	N	IV
KQ2406992-07	Fluoride, undistilled	CCV		Water	2.07 mg/L	10 mL	2.07 mg/L	1					6/14/24 22:38	N	IV
KQ2406992-07	Sulfate	CCV		Water	3.98 mg/L	10 mL	3.98 mg/L	1					6/14/24 22:38	N	IV
KQ2406992-08	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			6/14/24 22:44	N	IV
KQ2406992-08	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/14/24 22:44	N	IV
KQ2406992-08	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			6/14/24 22:44	N	IV
K2404675-015	Chloride	N/A		Water	42.03 mg/L	10 mL	42.0 mg/L	10	0.5	2.0			6/14/24 22:51	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 844315 **Method/Testcode:** 300.0/SO4

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R2404675-015	Sulfate	N/A		Water	4.60 mg/L	10 mL	4.6 mg/L	10	0.4	2.0			6/14/24 22:51	N	IV
R2405089-001	Fluoride, undistilled	N/A		Water	1.87 mg/L	10 mL	1.87 mg/L	1	0.010	0.10			6/14/24 23:22	Y	II
RQ2406992-09	Fluoride, undistilled	MS	R2405089-001	Water	2.84 mg/L	10 mL	2.84 mg/L	1	0.010	0.10	97		6/14/24 23:28	N	II
RQ2406992-10	Fluoride, undistilled	DMS	R2405089-001	Water	2.84 mg/L	10 mL	2.84 mg/L	1	0.010	0.10	98	<1	6/14/24 23:35	N	II
R2404674-001	Sulfate	N/A		Water	25.61 mg/L	10 mL	25.6 mg/L	10	0.4	2.0			6/14/24 23:41	N	IV
R2404674-002	Sulfate	N/A		Water	0.00 mg/L	10 mL	2.0 mg/L U	10	0.4	2.0			6/14/24 23:47	N	IV
RQ2406992-11	Chloride	CCV		Water	4.16 mg/L	10 mL	4.16 mg/L	1					6/14/24 23:54	N	IV
RQ2406992-11	Fluoride, undistilled	CCV		Water	2.05 mg/L	10 mL	2.05 mg/L	1					6/14/24 23:54	N	IV
RQ2406992-11	Sulfate	CCV		Water	3.93 mg/L	10 mL	3.93 mg/L	1					6/14/24 23:54	N	IV
RQ2406992-12	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			6/15/24 00:00	N	IV
RQ2406992-12	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/15/24 00:00	N	IV
RQ2406992-12	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			6/15/24 00:00	N	IV

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Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 844316 **Method/Testcode:** 300.0/SO4

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2406993-01	Sulfate	CCV		Water	3.93 mg/L	10 mL	3.93 mg/L	1					6/14/24 23:54	N	IV
KQ2406993-02	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			6/15/24 00:00	N	IV
KQ2406993-03	Sulfate	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			6/15/24 00:00	N	IV
KQ2406993-04	Sulfate	LCS		Water	1.92 mg/L	10 mL	1.92 mg/L	1	0.04	0.20	96		6/15/24 00:06	N	IV
K2404674-005	Sulfate	N/A		Water	19.64 mg/L	10 mL	19.6 mg/L	10	0.4	2.0			6/15/24 00:31	N	IV
K2404674-006	Sulfate	N/A		Water	99.80 mg/L	10 mL	99.8 mg/L	10	0.4	2.0			6/15/24 00:38	N	IV
K2404674-009	Sulfate	N/A		Water	1.31 mg/L	10 mL	1.3 mg/L J	10	0.4	2.0			6/15/24 00:56	N	IV
K2404674-010	Sulfate	N/A		Water	21.07 mg/L	10 mL	21.1 mg/L	10	0.4	2.0			6/15/24 01:03	N	IV
KQ2406993-07	Sulfate	CCV		Water	3.95 mg/L	10 mL	3.95 mg/L	1					6/15/24 01:09	N	IV
KQ2406993-08	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			6/15/24 01:15	N	IV
K2404674-011	Sulfate	N/A		Water	49.11 mg/L	10 mL	49.1 mg/L	10	0.4	2.0			6/15/24 01:22	Y	IV
KQ2406993-05	Sulfate	MS	R2404674-011	Water	65.73 mg/L	10 mL	65.7 mg/L	10	0.4	2.0	83*		6/15/24 01:28	N	IV
KQ2406993-06	Sulfate	DMS	R2404674-011	Water	65.43 mg/L	10 mL	65.4 mg/L	10	0.4	2.0	82*	<1	6/15/24 01:34	N	IV
K2404674-014	Sulfate	N/A		Water	0.00 mg/L	10 mL	2.0 mg/L U	10	0.4	2.0			6/15/24 01:53	N	IV
K2404674-016	Sulfate	N/A		Water	0.00 mg/L	10 mL	2.0 mg/L U	10	0.4	2.0			6/15/24 01:59	N	IV
KQ2406993-09	Sulfate	CCV		Water	3.93 mg/L	10 mL	3.93 mg/L	1					6/15/24 02:06	N	IV
KQ2406993-10	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			6/15/24 02:12	N	IV

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RAW/KW 6/14/24
IC-10 Anions

Determination overview

	Method name	Determination start	Position	Ident	Dilution	Info 1	Info 2
1	10-051424FAST	2024-06-14 06:47:03 UTC-4	1	CCV	1	300.0/9056A	
2	10-051424FAST	2024-06-14 06:53:22 UTC-4	2	CCB	1	300.0/9056A	
3	10-051424FAST	2024-06-14 06:59:38 UTC-4	3	LCS	1	300.0/9056A	
4	10-051424FAST	2024-06-14 07:45:13 UTC-4	4	R2404816-001	1	300.0 F	
5	10-051424FAST	2024-06-14 07:51:30 UTC-4	5	R2404816-001	10	300.0 CS	
6	10-051424FAST	2024-06-14 07:57:47 UTC-4	6	R2404816-003	1	300.0 FS	
7	10-051424FAST	2024-06-14 08:04:03 UTC-4	7	R2404816-003	10	300.0 C	
8	10-051424FAST	2024-06-14 08:10:19 UTC-4	8	R2404816-005	1	300.0 FS	
9	10-051424FAST	2024-06-14 08:16:36 UTC-4	9	R2404816-005	10	300.0 C	
10	10-051424FAST	2024-06-14 08:22:52 UTC-4	10	R2404816-007	1	300.0 FS	
11	10-051424FAST	2024-06-14 08:29:09 UTC-4	11	R2404816-007	10	300.0 C	
12	10-051424FAST	2024-06-14 08:35:25 UTC-4	12	R2404888-001	1	300.0 FS	
13	10-051424FAST	2024-06-14 08:41:42 UTC-4	13	CCV	1	300.0/9056A	
14	10-051424FAST	2024-06-14 08:47:59 UTC-4	14	CCB	1	300.0/9056A	
15	10-051424FAST	2024-06-14 08:54:15 UTC-4	15	R2404888-001	10	300.0 C	
16	10-051424FAST	2024-06-14 09:00:31 UTC-4	16	R2404888-003	1	300.0 F	
17	10-051424FAST	2024-06-14 09:06:48 UTC-4	17	R2404888-003	10	300.0 S	
18	10-051424FAST	2024-06-14 09:13:05 UTC-4	18	R2404888-003 MS	10	300.0 S	
19	10-051424FAST	2024-06-14 09:19:21 UTC-4	19	R2404888-003 MSD	10	300.0 S	
20	10-051424FAST	2024-06-14 09:25:38 UTC-4	20	R2404888-005	1	300.0 F	
21	10-051424FAST	2024-06-14 09:31:54 UTC-4	21	R2404888-005	10	300.0 CS	
22	10-051424FAST	2024-06-14 09:38:11 UTC-4	22	R2404888-005 MS	10	300.0 CS	
23	10-051424FAST	2024-06-14 09:44:27 UTC-4	23	R2404888-005 MSD	10	300.0 CS	
24	10-051424FAST	2024-06-14 09:50:44 UTC-4	24	R2405888-007	1	300.0 FS	
25	10-051424FAST	2024-06-14 09:57:00 UTC-4	25	CCV	1	300.0/9056A	
26	10-051424FAST	2024-06-14 10:03:17 UTC-4	26	CCB	1	300.0/9056A	
27	10-051424FAST	2024-06-14 10:09:34 UTC-4	27	LCS	1	300.0/9056A	
28	10-051424FAST	2024-06-14 10:15:51 UTC-4	28	R2404888-009	1	300.0 FS	
29	10-051424FAST	2024-06-14 10:22:07 UTC-4	29	R2404888-011	1	300.0 FS	
30	10-051424FAST	2024-06-14 10:28:24 UTC-4	30	R2404888-013	1	300.0 FS	
31	10-051424FAST	2024-06-14 10:35:40 UTC-4	31	R2404888-015	1	300.0 FS	
32	10-051424FAST	2024-06-14 10:42:11 UTC-4	32	R2404888-017	1	300.0 FS	
33	10-051424FAST	2024-06-14 10:48:34 UTC-4	33	R2404888-019	1	300.0 FS	
34	10-051424FAST	2024-06-14 10:54:56 UTC-4	34	R2404888-021	1	300.0 FS	
35	10-051424FAST	2024-06-14 11:01:21 UTC-4	35	R2404888-021 MS!	1	300.0 FS	
36	10-051424FAST	2024-06-14 11:07:46 UTC-4	36	R2404888-021 MSD!	1	300.0 FS	
37	10-051424FAST	2024-06-14 11:14:11 UTC-4	37	CCV	1	300.0/9056A	
38	10-051424FAST	2024-06-14 11:20:38 UTC-4	38	CCB	1	300.0/9056A	
39	10-051424FAST	2024-06-14 11:26:59 UTC-4	39	R2404888-023	1	300.0 FCS	
40	10-051424FAST	2024-06-14 12:23:42 UTC-4	40	R2405309-013	10	300.0 CBNS	MW-1B BARTON
41	10-051424FAST	2024-06-14 12:30:06 UTC-4	41	R2405309-013 MS	10	300.0 CBNS	MW-1B MS
42	10-051424FAST	2024-06-14 12:36:24 UTC-4	42	R2405309-013 MSD	10	300.0 CBNS	MW-1B MSD
43	10-051424FAST	2024-06-14 12:42:42 UTC-4	43	R2405328-001	10	300.0 CBNS	MW-1S
44	10-051424FAST	2024-06-14 12:48:59 UTC-4	44	R2405328-002	10	300.0 CBNS	MW-2S
45	10-051424FAST	2024-06-14 12:55:16 UTC-4	45	R2405328-003	10	300.0 CBNS	MW-3S
46	10-051424FAST	2024-06-14 13:01:36 UTC-4	46	R2405328-004	10	300.0 CBNS	SW-1
47	10-051424FAST	2024-06-14 13:07:54 UTC-4	47	R2405328-005	10	300.0 CBNS	SW-2
48	10-051424FAST	2024-06-14 13:14:11 UTC-4	48	R2405328-006	10	300.0 CBNS	DUPE-X BARTON
49	10-051424FAST	2024-06-14 13:20:28 UTC-4	49	CCV	1	300.0/9056A	
50	10-051424FAST	2024-06-14 13:26:52 UTC-4	50	CCB	1	300.0/9056A	
51	10-051424FAST	2024-06-14 13:33:08 UTC-4	51	R2405327-001	10	9056A BNS	W-1A SULLIVAN C@50
52	10-051424FAST	2024-06-14 13:39:32 UTC-4	52	R2405327-002	10	9056A BNS	MW-112 C@30
53	10-051424FAST	2024-06-14 13:45:48 UTC-4	53	R2405327-003	10	9056A BNS	MW-105 C@100
54	10-051424FAST	2024-06-14 13:52:06 UTC-4	54	R2405327-004	10	9056A BNS	GW-2S C@50
55	10-051424FAST	2024-06-14 13:58:22 UTC-4	55	R2405327-005	10	9056A BNS	GW-2D C@40
56	10-051424FAST	2024-06-14 14:04:40 UTC-4	56	CCV	1	300.0/9056A	
57	10-051424FAST	2024-06-14 14:10:57 UTC-4	57	CCB	1	300.0/9056A	
58	10-051424FAST	2024-06-14 19:04:34 UTC-4	1	LCS	1	300.0/9056A	
59	10-051424FAST	2024-06-14 19:10:56 UTC-4	2	R2404888-003	20	300.0 C	
60	10-051424FAST	2024-06-14 19:17:13 UTC-4	3	R2404888-007	10	300.0 C	
61	10-051424FAST	2024-06-14 19:23:31 UTC-4	4	R2404888-007 MS	10	300.0 C	
62	10-051424FAST	2024-06-14 19:29:48 UTC-4	5	R2404888-007 MSD	10	300.0 C	
63	10-051424FAST	2024-06-14 19:36:05 UTC-4	6	R2404888-009	10	300.0 C	

Determination overview

	Method name	Determination start	Position	Ident	Dilution	Info 1	Info 2
64	10-051424FAST	2024-06-14 19:42:21 UTC-4	7	R2404888-011	10	300.0 C	
65	10-051424FAST	2024-06-14 19:48:38 UTC-4	8	R2404888-013	10	300.0 C	
66	10-051424FAST	2024-06-14 19:54:54 UTC-4	9	R2404888-015	10	300.0 C	
67	10-051424FAST	2024-06-14 20:01:11 UTC-4	10	R2404888-017	10	300.0 C	
68	10-051424FAST	2024-06-14 20:07:27 UTC-4	11	CCV	1	300.0/9056A	
69	10-051424FAST	2024-06-14 20:13:45 UTC-4	12	CCB	1	300.0/9056A	
70	10-051424FAST	2024-06-14 20:20:01 UTC-4	13	R2404888-019	10	300.0 C	
71	10-051424FAST	2024-06-14 20:26:17 UTC-4	14	R2404888-021	10	300.0 C	
72	10-051424FAST	2024-06-14 20:32:34 UTC-4	15	R2404888-021 MS!	10	300.0 C	
73	10-051424FAST	2024-06-14 20:38:51 UTC-4	16	R2404888-021 MSD!	10	300.0 C	
74	10-051424FAST	2024-06-14 20:45:07 UTC-4	17	R2404659-005	1	300.0 FS	
75	10-051424FAST	2024-06-14 20:51:24 UTC-4	18	R2404659-005	10	300.0 C	
76	10-051424FAST	2024-06-14 20:57:40 UTC-4	19	R2404659-007	1	300.0 FS	
77	10-051424FAST	2024-06-14 21:03:56 UTC-4	20	R2404659-007	10	300.0 C	
78	10-051424FAST	2024-06-14 21:10:13 UTC-4	21	R2404659-009	1	300.0 FS	
79	10-051424FAST	2024-06-14 21:16:30 UTC-4	22	R2404659-009	10	300.0 C	
80	10-051424FAST	2024-06-14 21:22:46 UTC-4	23	CCV	1	300.0/9056A	
81	10-051424FAST	2024-06-14 21:29:04 UTC-4	24	CCB	1	300.0/9056A	
82	10-051424FAST	2024-06-14 21:35:20 UTC-4	25	LCS	1	300.0/9056A	
83	10-051424FAST	2024-06-14 21:41:43 UTC-4	26	R2404675-001	10	300.0 CS	
84	10-051424FAST	2024-06-14 21:48:00 UTC-4	27	R2404675-003	10	300.0 CS	
85	10-051424FAST	2024-06-14 21:54:16 UTC-4	28	R2404675-005	10	300.0 CS	
86	10-051424FAST	2024-06-14 22:00:33 UTC-4	29	R2404675-007	10	300.0 CS	
87	10-051424FAST	2024-06-14 22:06:49 UTC-4	30	R2404675-009	10	300.0 CS	
88	10-051424FAST	2024-06-14 22:13:06 UTC-4	31	R2404675-011	10	300.0 C	
89	10-051424FAST	2024-06-14 22:19:32 UTC-4	32	R2404675-013	10	300.0 CS	
90	10-051424FAST	2024-06-14 22:25:54 UTC-4	33	R2404675-013 MS	10	300.0 CS	
91	10-051424FAST	2024-06-14 22:32:18 UTC-4	34	R2404675-013 MSD	10	300.0 CS	
92	10-051424FAST	2024-06-14 22:38:35 UTC-4	35	CCV	1	300.0/9056A	
93	10-051424FAST	2024-06-14 22:44:59 UTC-4	36	CCB	1	300.0/9056A	
94	10-051424FAST	2024-06-14 22:51:15 UTC-4	37	R2404675-015	10	300.0 CS	
95	10-051424FAST	2024-06-14 22:57:32 UTC-4	38	R2404951-001	200	300.0 C	
96	10-051424FAST	2024-06-14 23:03:48 UTC-4	39	R2404951-002	200	300.0 C	
97	10-051424FAST	2024-06-14 23:10:04 UTC-4	40	R2404931-001 DNR	1	300.0 F	
98	10-051424FAST	2024-06-14 23:16:21 UTC-4	41	R2404931-001 DNR	5	300.0 F	
99	10-051424FAST	2024-06-14 23:22:38 UTC-4	42	R2405089-001	1	300.0 F	
100	10-051424FAST	2024-06-14 23:28:55 UTC-4	43	R2405089-001 MS!	1	300.0 F	
101	10-051424FAST	2024-06-14 23:35:12 UTC-4	44	R2405089-001 MSD!	1	300.0 F	
102	10-051424FAST	2024-06-14 23:41:29 UTC-4	45	R2404674-001	10	300.0 S	
103	10-051424FAST	2024-06-14 23:47:49 UTC-4	46	R2404674-002	10	300.0 S	
104	10-051424FAST	2024-06-14 23:54:05 UTC-4	47	CCV	1	300.0/9056A	
105	10-051424FAST	2024-06-15 00:00:23 UTC-4	48	CCB	1	300.0/9056A	
106	10-051424FAST	2024-06-15 00:06:39 UTC-4	49	LCS	1	300.0/9056A	
107	10-051424FAST	2024-06-15 00:12:56 UTC-4	50	R2404674-004 DNR	10	300.0 S	
108	10-051424FAST	2024-06-15 00:19:13 UTC-4	51	R2404674-004 MS DNR	10	300.0 S	
109	10-051424FAST	2024-06-15 00:25:30 UTC-4	52	R2404674-004 MSD DNR	10	300.0 S	
110	10-051424FAST	2024-06-15 00:31:47 UTC-4	53	R2404674-005	10	300.0 S	
111	10-051424FAST	2024-06-15 00:38:04 UTC-4	54	R2404674-006	10	300.0 S	
112	10-051424FAST	2024-06-15 00:44:21 UTC-4	55	R2404674-007 DNR	10	300.0 S	
113	10-051424FAST	2024-06-15 00:50:38 UTC-4	56	R2404674-008 DNR	10	300.0 S	
114	10-051424FAST	2024-06-15 00:56:55 UTC-4	57	R2404674-009	10	300.0 S	
115	10-051424FAST	2024-06-15 01:03:11 UTC-4	58	R2404674-010	10	300.0 S	
116	10-051424FAST	2024-06-15 01:09:27 UTC-4	59	CCV	1	300.0/9056A	
117	10-051424FAST	2024-06-15 01:15:44 UTC-4	60	CCB	1	300.0/9056A	
118	10-051424FAST	2024-06-15 01:22:00 UTC-4	61	R2404674-011	10	300.0 S	
119	10-051424FAST	2024-06-15 01:28:17 UTC-4	62	R2404674-011 MS!	10	300.0 S	
120	10-051424FAST	2024-06-15 01:34:34 UTC-4	63	R2404674-011 MSD!	10	300.0 S	
121	10-051424FAST	2024-06-15 01:40:57 UTC-4	64	R2404674-012	10	300.0 S	NOT PULLING IN LIMS
122	10-051424FAST	2024-06-15 01:47:14 UTC-4	65	R2404674-013	10	300.0 S	
123	10-051424FAST	2024-06-15 01:53:30 UTC-4	66	R2404674-014	10	300.0 S	
124	10-051424FAST	2024-06-15 01:59:46 UTC-4	67	R2404674-016	10	300.0 S	
125	10-051424FAST	2024-06-15 02:06:04 UTC-4	68	CCV	1	300.0/9056A	
126	10-051424FAST	2024-06-15 02:12:21 UTC-4	69	CCB	1	300.0/9056A	

Sample Dilutions

Final Volume: 8-10mL - IC#3,10

Analyst: RAW/KW
Instrument: IC-10

Date 6/14/24
Analysis Anions

Common Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor
1/2	DI	4.5	4.5	1/2												
1/3	DI	3	6	1/3												
1/4	DI	2	6	1/4												
1/5	DI	2	8	1/5												
1/10	DI	1	9	1/10												
1/20	DI	3	3	1/2	1	9	1/20									
1/30	DI	3	6	1/3	1	9	1/30									
1/40	DI	1	3	1/4	1	9	1/40									
1/50	DI	1	4	1/5	1	9	1/50									
1/100	DI	1	9	1/10	1	9	1/100									
1/200	DI	3	3	1/2	1	9	1/20	1	9	1/200						
1/300	DI	3	6	1/3	1	9	1/30	1	9	1/300						
1/400	DI	1	3	1/4	1	9	1/40	1	9	1/400						
1/500	DI	1	4	1/5	1	9	1/50	1	9	1/500						
1/1000	DI	1	9	1/10	1	9	1/100	1	9	1/1000						
1/2000	DI	3	3	1/2	1	9	1/20	1	9	1/200	1	9	1/2000			
1/3000	DI	3	6	1/3	1	9	1/30	1	9	1/300	1	9	1/3000			
1/4000	DI	1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000			
1/10000	DI	1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000			
1/20000	DI	1	1	1/2	1	9	1/20	1	9	1/200	1	9	1/2000	1	9	1/20000
1/40000	DI	1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000	1	9	1/40000
1/100000	DI	1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000	1	9	1/100000

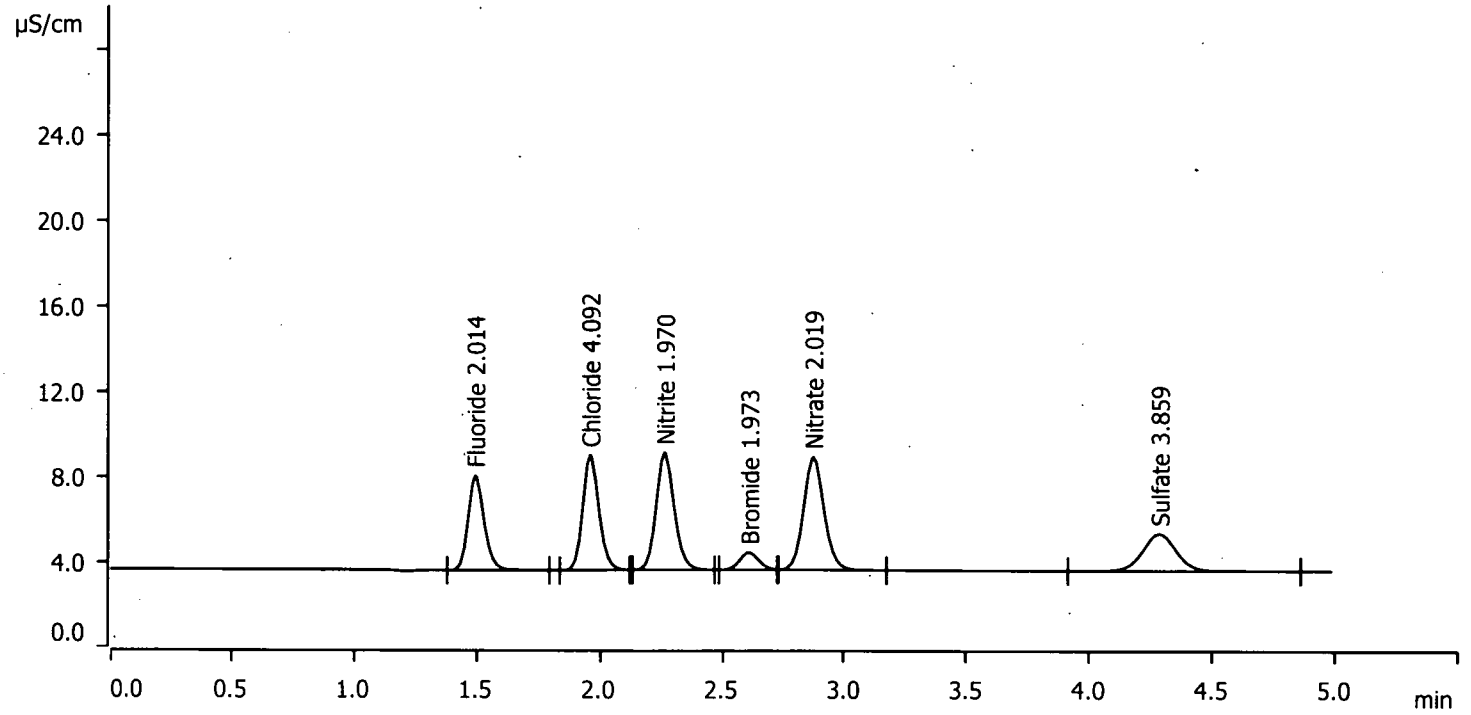
Special Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-06-14 06:47:03 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86089
Sample Position	1
Comment 1	300.0/9056A
Comment 2	

Anions



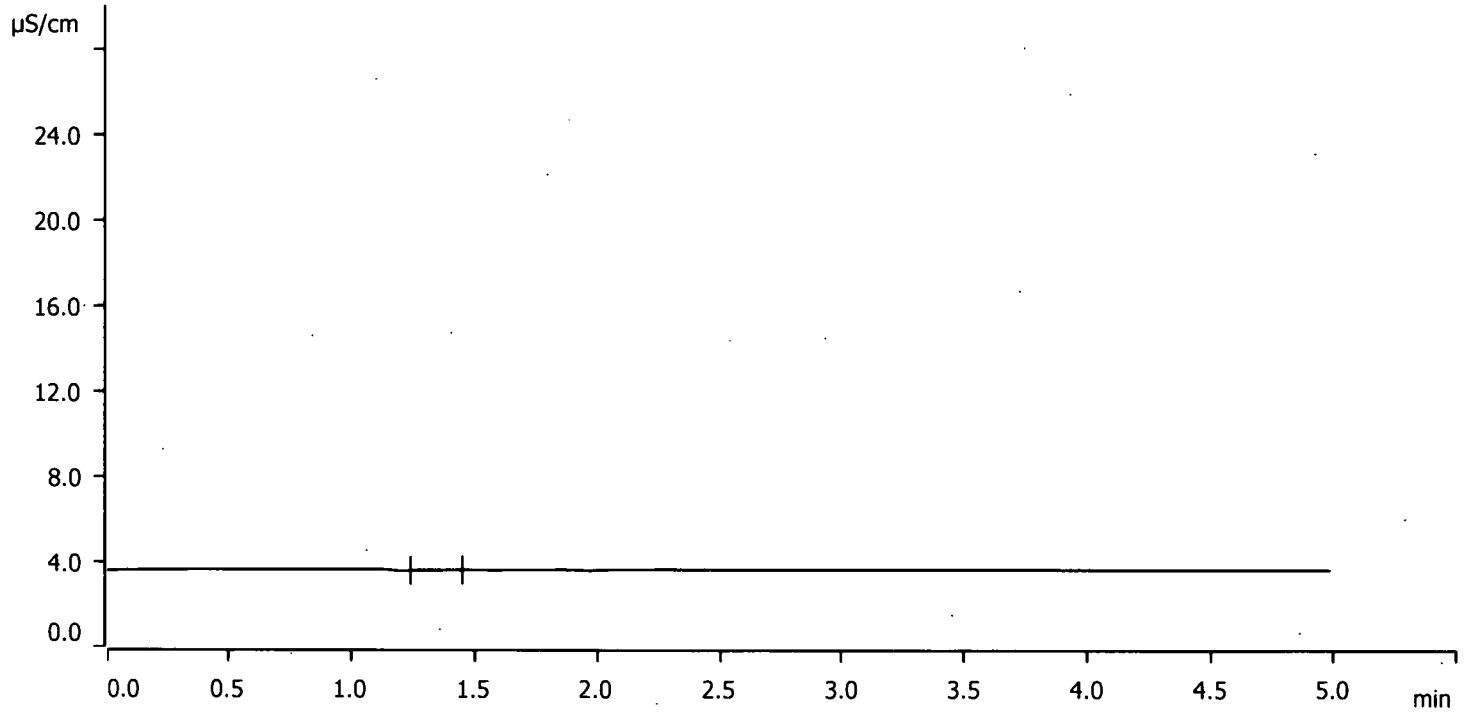
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.338	2.014	Fluoride	BB
2	1.96	0.408	4.092	Chloride	BB
3	2.27	0.472	1.970	Nitrite	BB
4	2.61	0.073	1.973	Bromide	BB
5	2.87	0.514	2.019	Nitrate	BB
6	4.28	0.279	3.859	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-06-14 06:53:22 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86090
Sample Position	2
Comment 1	300.0/9056A
Comment 2	

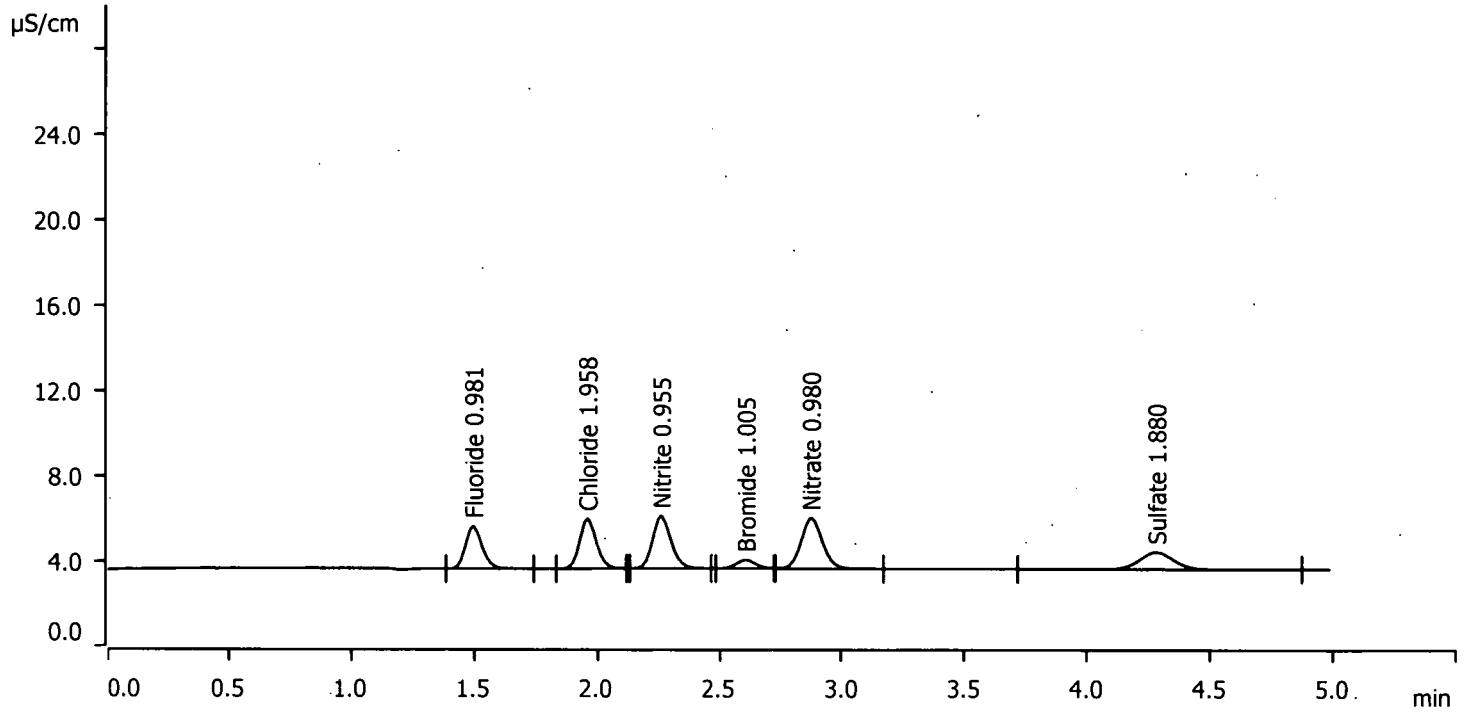
Anions



Sample data

Ident	LCS
Sample type	Check standard 2
Determination start	2024-06-14 06:59:38 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86091
Sample Position	3
Comment 1	300.0/9056A
Comment 2	

Anions



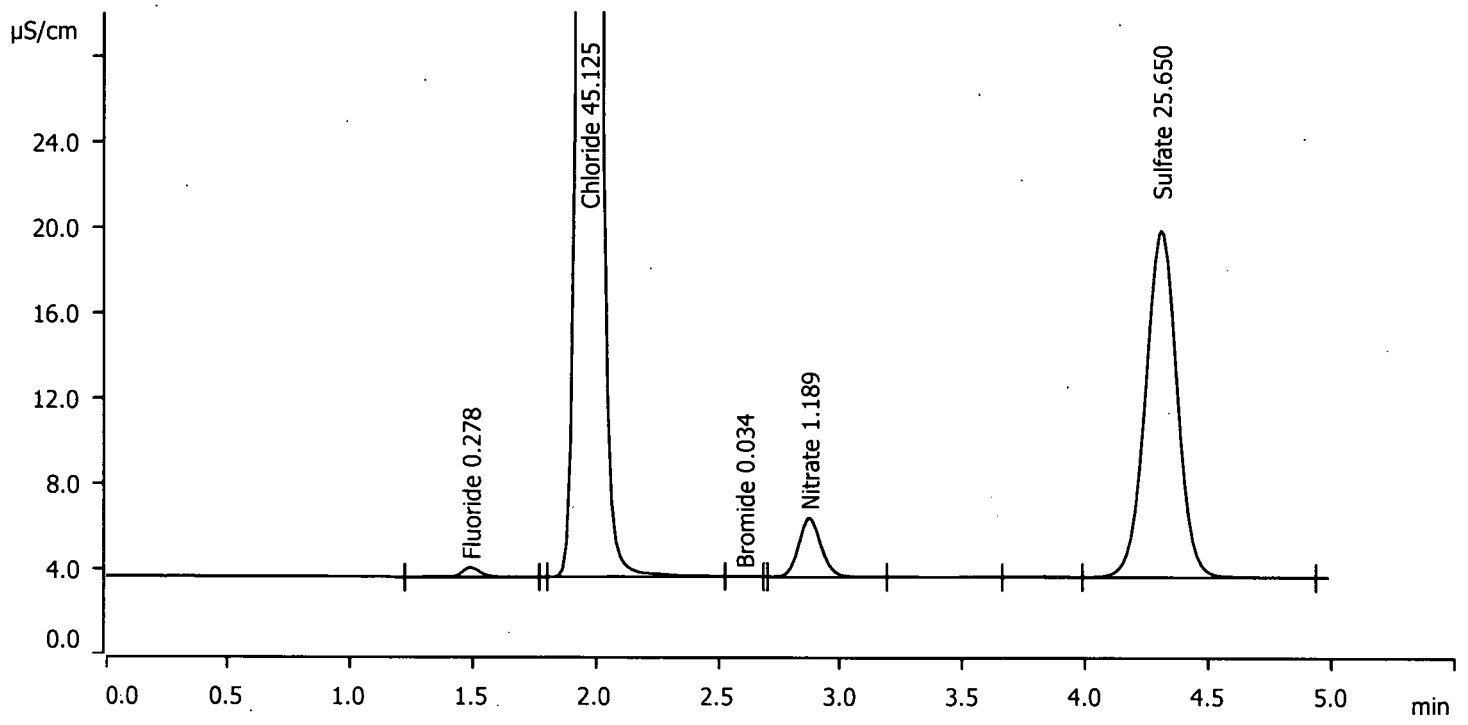
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.156	0.981	Fluoride	BB
2	1.96	0.182	1.958	Chloride	BB
3	2.26	0.217	0.955	Nitrite	BB
4	2.61	0.036	1.005	Bromide	BB
5	2.87	0.234	0.980	Nitrate	BB
6	4.28	0.132	1.880	Sulfate	BB

Sample data

Ident	R2404816-001
Sample type	Sample
Determination start	2024-06-14 07:45:13 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86092
Sample Position	4
Comment 1	300.0 F
Comment 2	

Anions



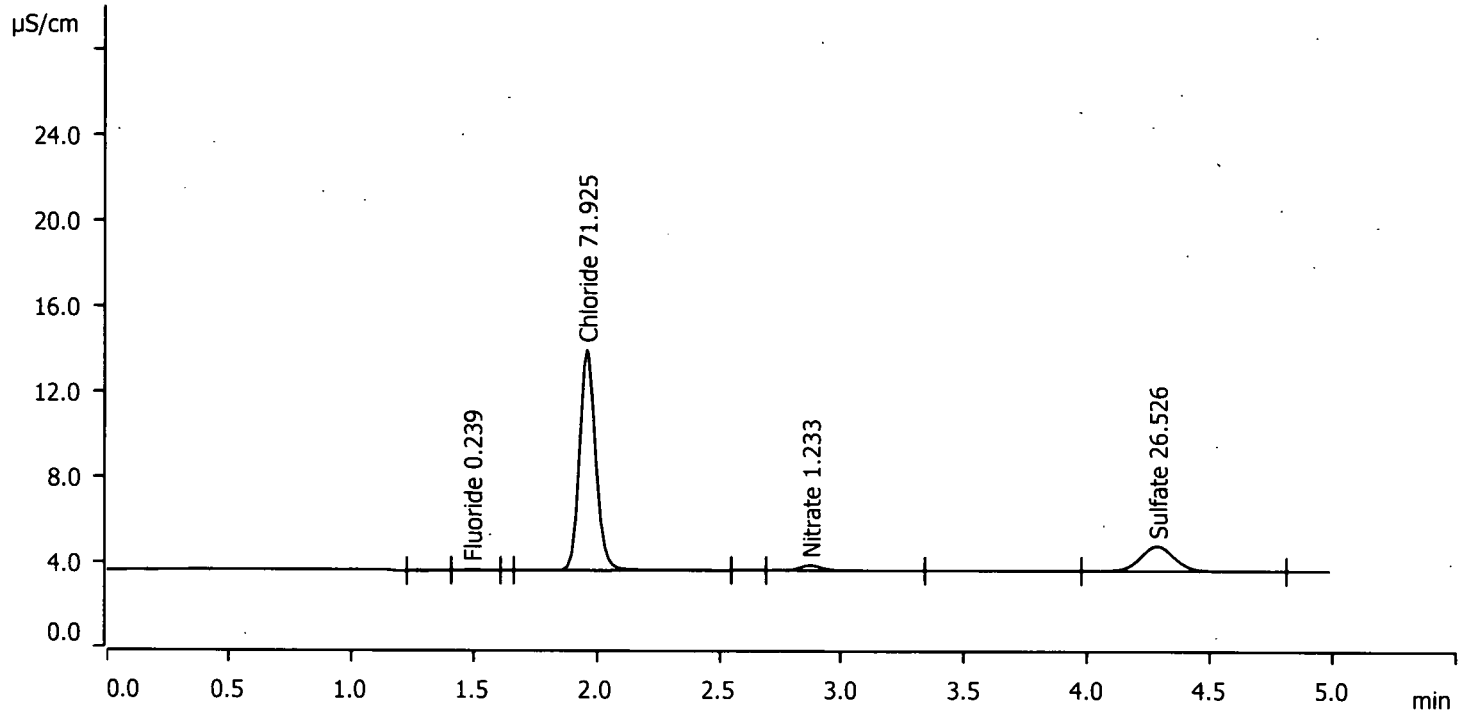
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.042	0.278	Fluoride	BB
2	1.98	9.378	45.125	Chloride	BB
3	2.61	0.001	0.034	Bromide	BB
4	2.87	0.288	1.189	Nitrate	BB
6	4.31	2.407	25.650	Sulfate	BB

Sample data

Ident	R2404816-001
Sample type	Sample
Determination start	2024-06-14 07:51:30 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86093
Sample Position	5
Comment 1	300.0 CS
Comment 2	

Anions



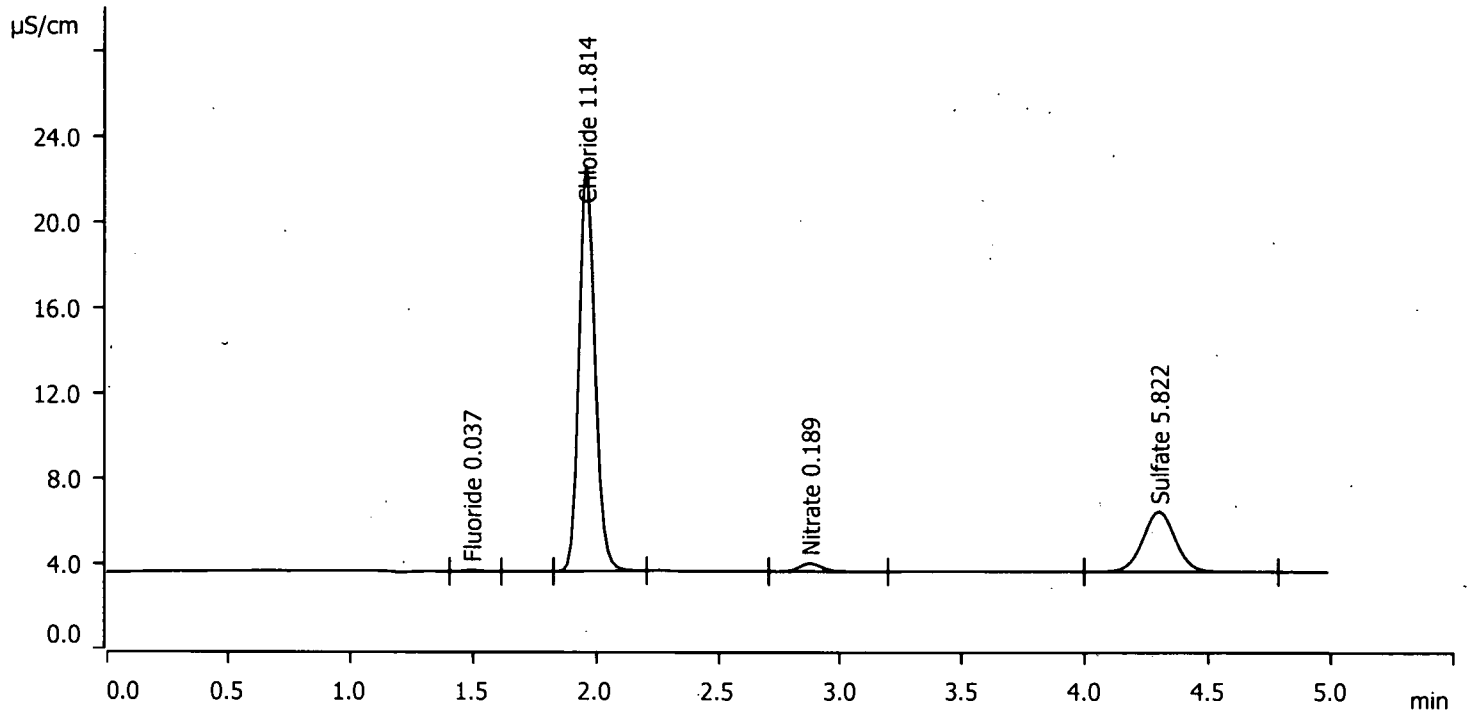
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.50	0.003	0.239	Fluoride	BB
3	1.96	0.778	71.925	Chloride	BB
4	2.87	0.025	1.233	Nitrate	BB
5	4.29	0.189	26.526	Sulfate	BB

Sample data

Ident	R2404816-003
Sample type	Sample
Determination start	2024-06-14 07:57:47 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86094
Sample Position	6
Comment 1	300.0 FS
Comment 2	

Anions



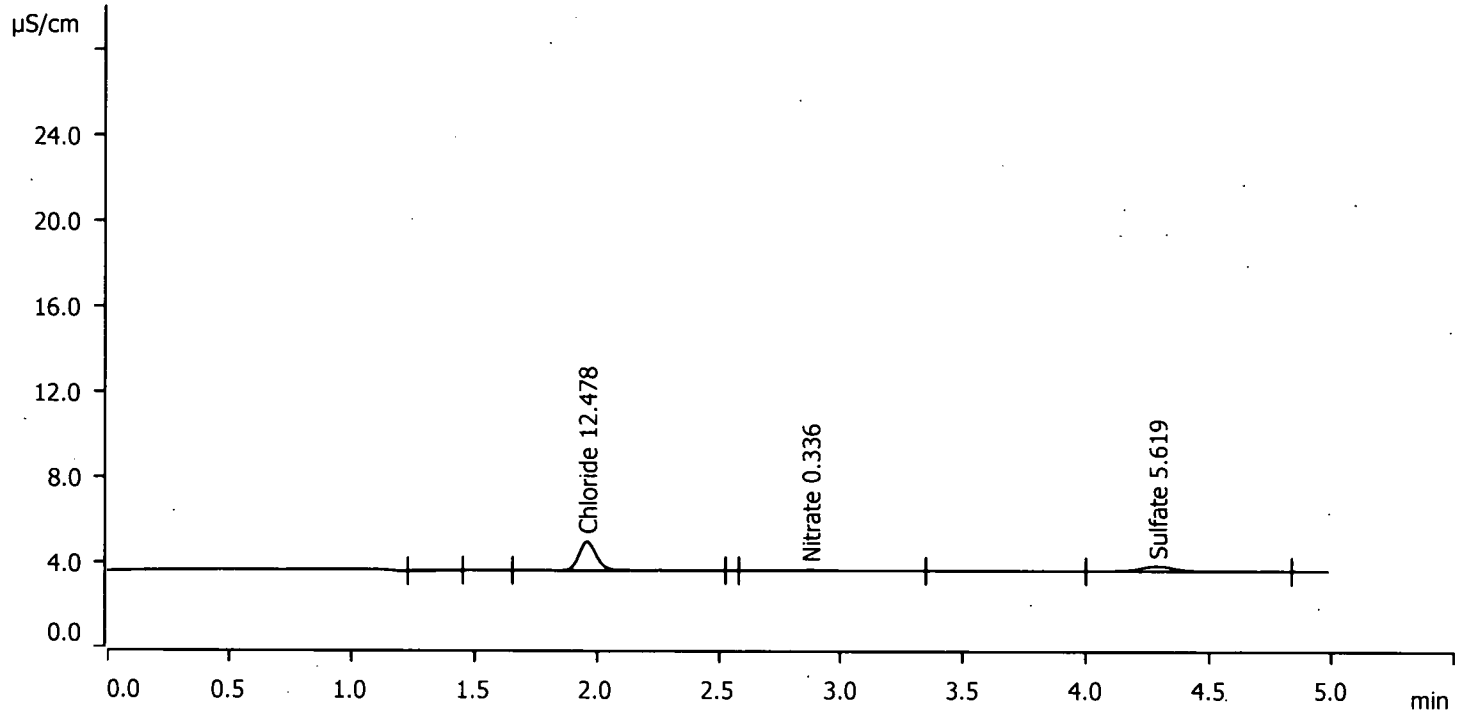
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.005	0.037	Fluoride	BB
2	1.96	1.423	11.814	Chloride	BB
3	2.88	0.040	0.189	Nitrate	BB
4	4.30	0.432	5.822	Sulfate	BB

Sample data

Ident	R2404816-003
Sample type	Sample
Determination start	2024-06-14 08:04:03 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86095
Sample Position	7
Comment 1	300.0 C
Comment 2	

Anions



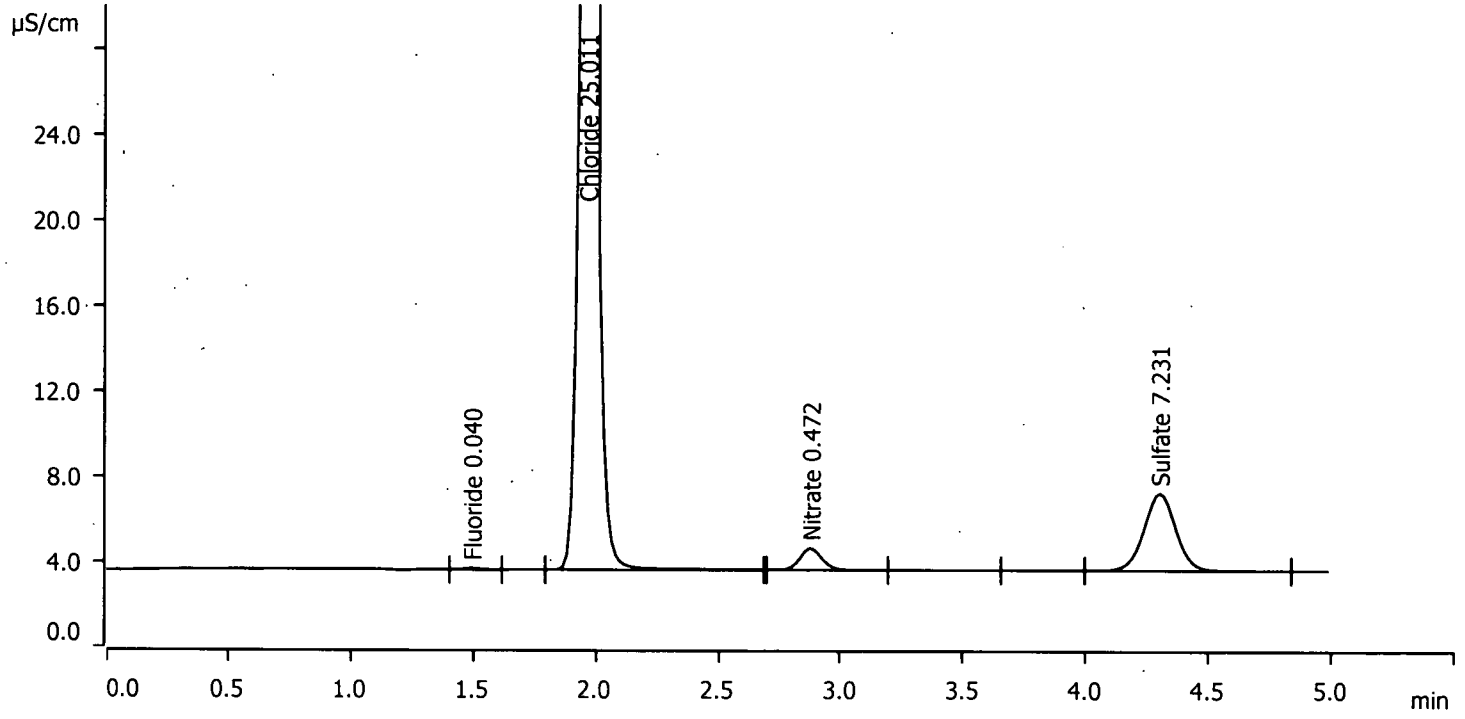
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.112	12.478	Chloride	BB
3	2.88	0.004	0.336	Nitrate	BBI
4	4.29	0.039	5.619	Sulfate	BB

Sample data

Ident	R2404816-005
Sample type	Sample
Determination start	2024-06-14 08:10:19 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86096
Sample Position	8
Comment 1	300.0 FS
Comment 2	

Anions



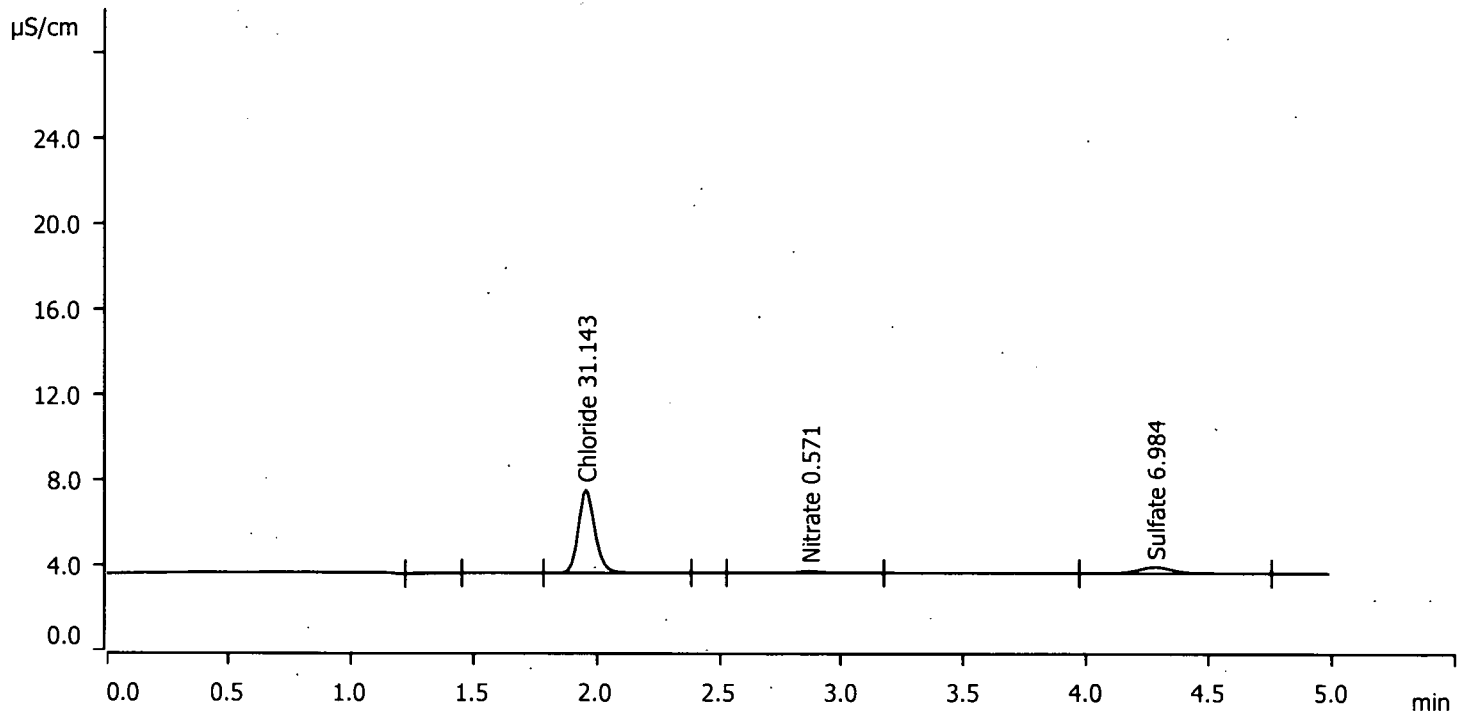
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.006	0.040	Fluoride	BB
2	1.97	3.880	25.011	Chloride	BB
3	2.88	0.108	0.472	Nitrate	BB
5	4.30	0.546	7.231	Sulfate	BB

Sample data

Ident	R2404816-005
Sample type	Sample
Determination start	2024-06-14 08:16:36 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86097
Sample Position	9
Comment 1	300.0 C
Comment 2	

Anions



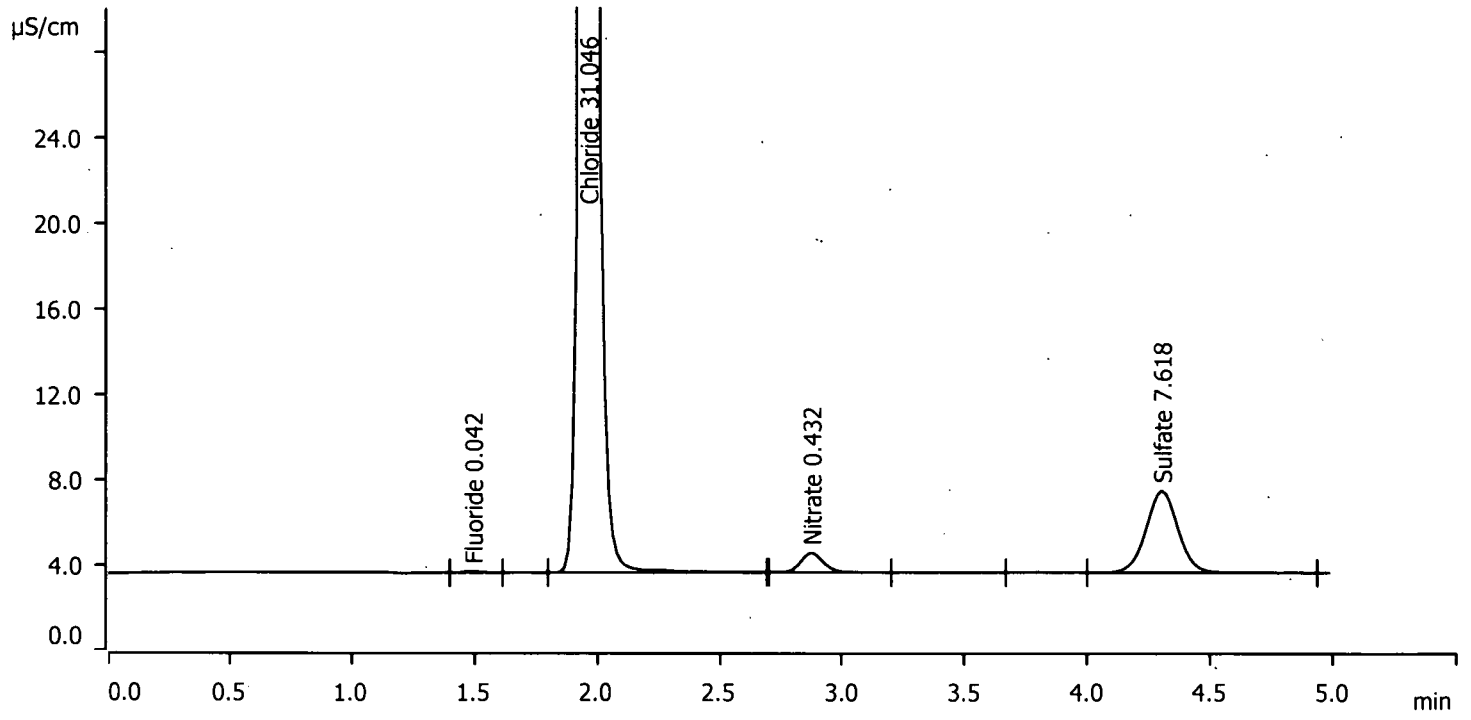
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.301	31.143	Chloride	BB
3	2.87	0.010	0.571	Nitrate	BB
4	4.28	0.049	6.984	Sulfate	BB

Sample data

Ident	R2404816-007
Sample type	Sample
Determination start	2024-06-14 08:22:52 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86098
Sample Position	10
Comment 1	300.0 FS
Comment 2	

Anions



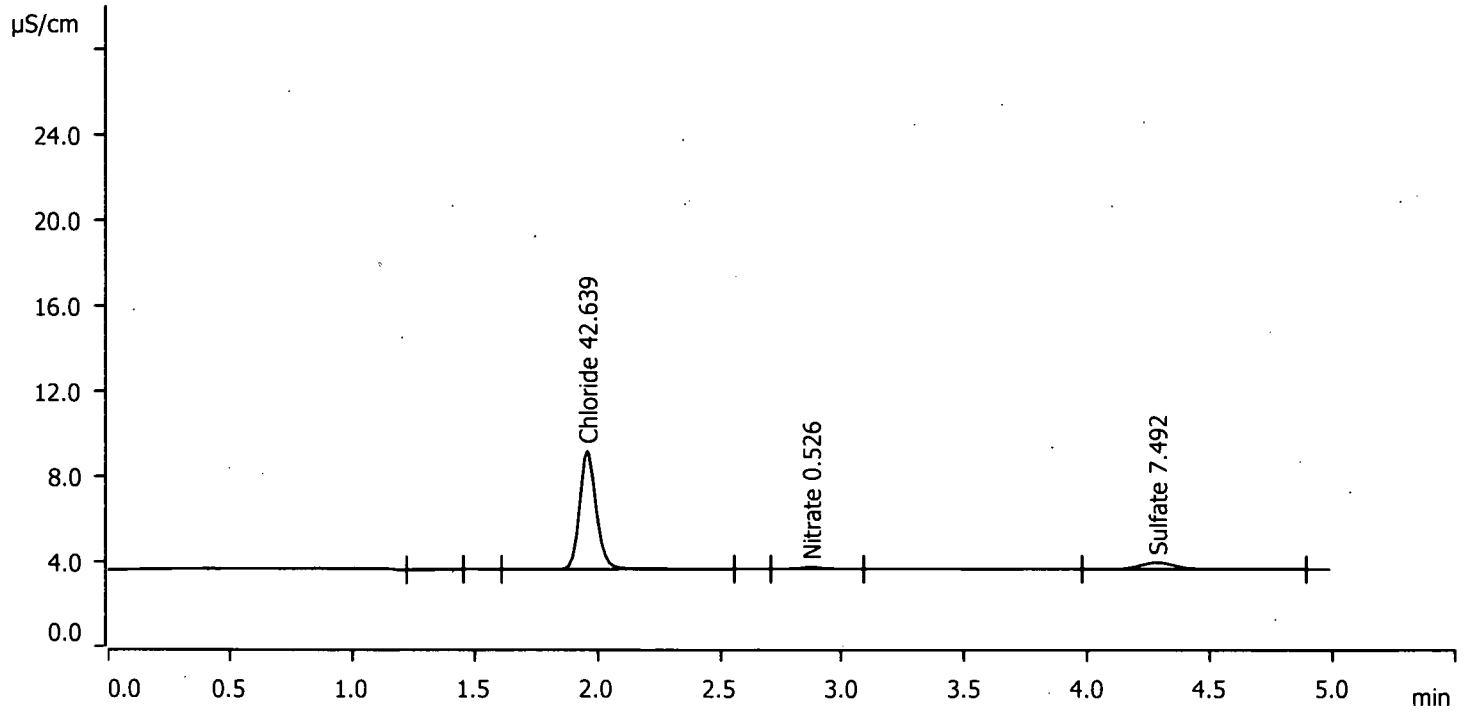
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.006	0.042	Fluoride	BB
2	1.97	5.308	31.046	Chloride	BB
3	2.88	0.098	0.432	Nitrate	BB
5	4.30	0.579	7.618	Sulfate	BB

Sample data

Ident	R2404816-007
Sample type	Sample
Determination start	2024-06-14 08:29:09 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86099
Sample Position	11
Comment 1	300.0 C
Comment 2	

Anions



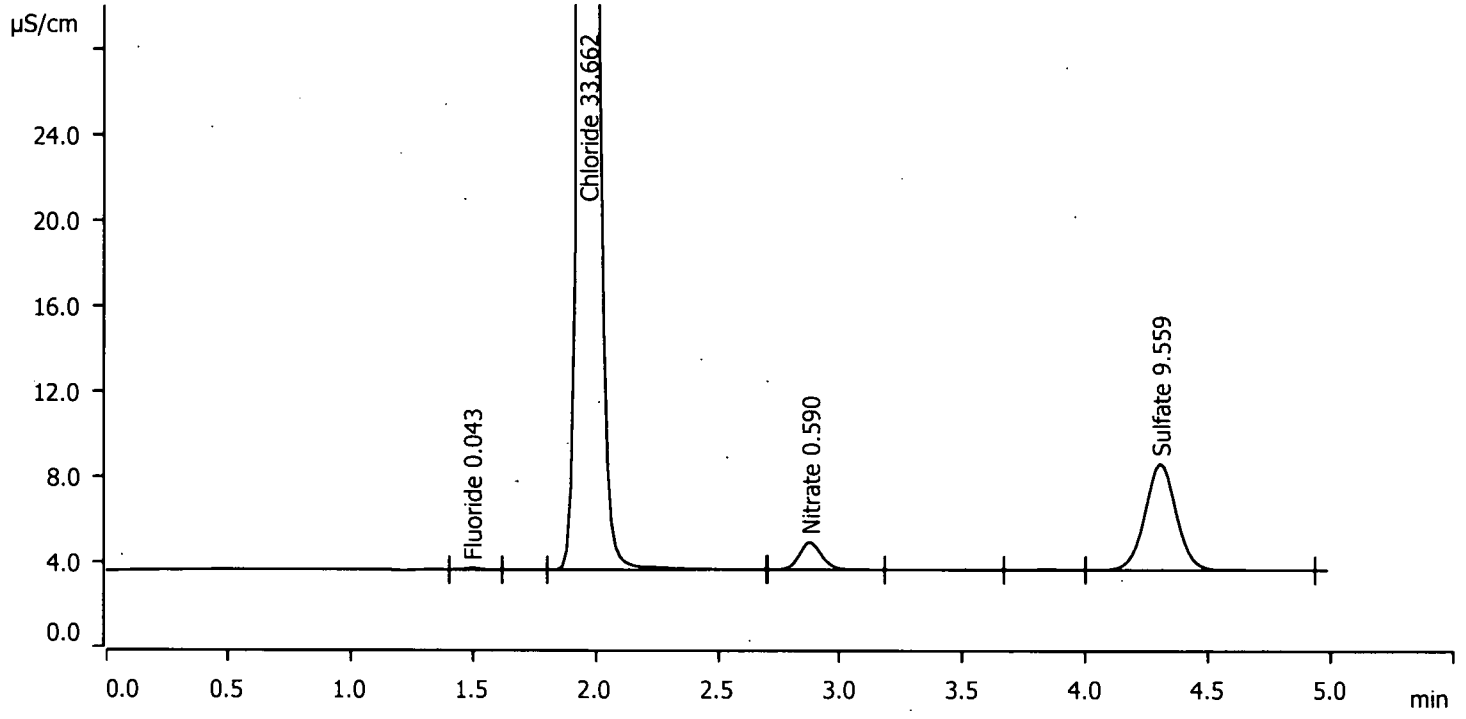
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.427	42.639	Chloride	BB
3	2.87	0.009	0.526	Nitrate	BB
4	4.28	0.052	7.492	Sulfate	BB

Sample data

Ident	R2404888-001
Sample type	Sample
Determination start	2024-06-14 08:35:25 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86100
Sample Position	12
Comment 1	300.0 FS
Comment 2	

Anions



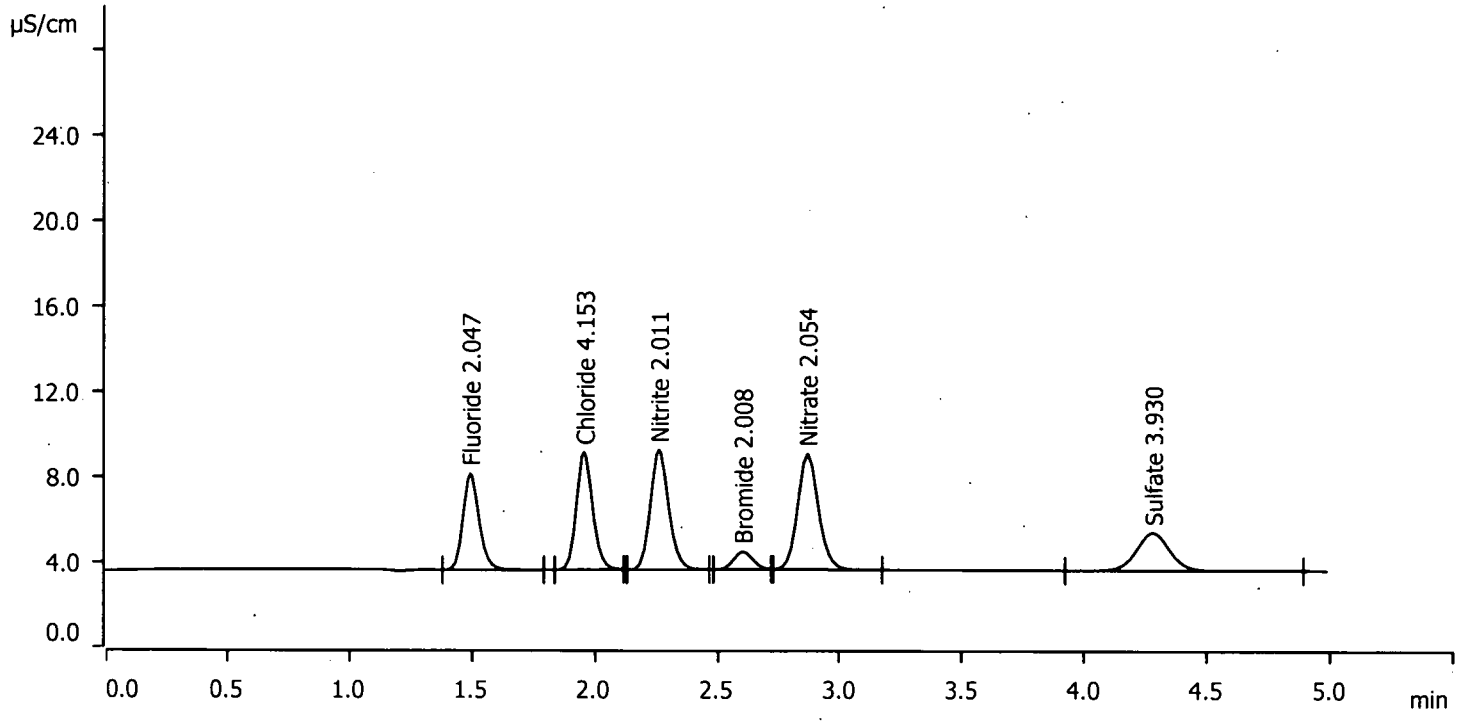
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.006	0.043	Fluoride	BB
2	1.97	5.985	33.662	Chloride	BB
3	2.88	0.136	0.590	Nitrate	BB
5	4.30	0.744	9.559	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-06-14 08:41:42 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86101
Sample Position	13
Comment 1	300.0/9056A
Comment 2	

Anions



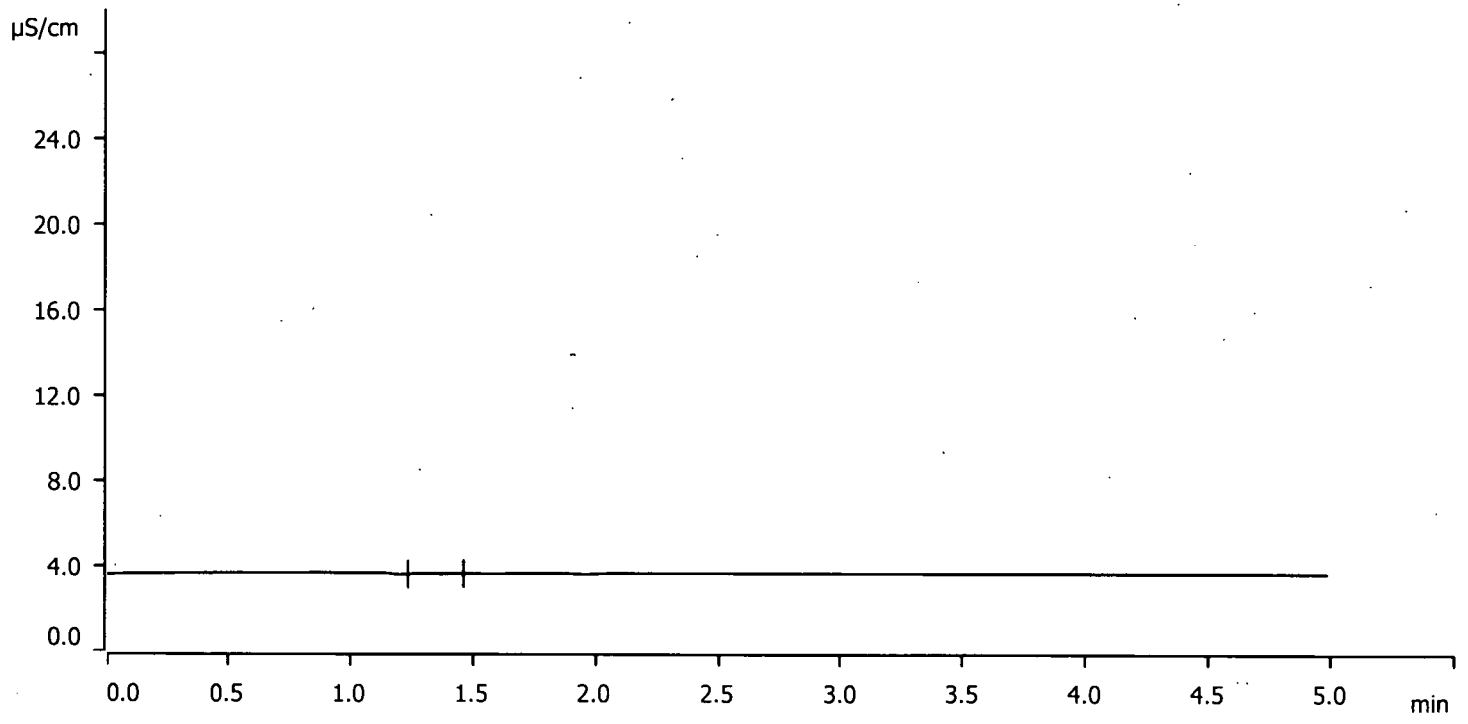
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.344	2.047	Fluoride	BB
2	1.96	0.414	4.153	Chloride	BB
3	2.26	0.483	2.011	Nitrite	BB
4	2.61	0.074	2.008	Bromide	BB
5	2.87	0.524	2.054	Nitrate	BB
6	4.28	0.284	3.930	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-06-14 08:47:59 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86102
Sample Position	14
Comment 1	300.0/9056A
Comment 2	

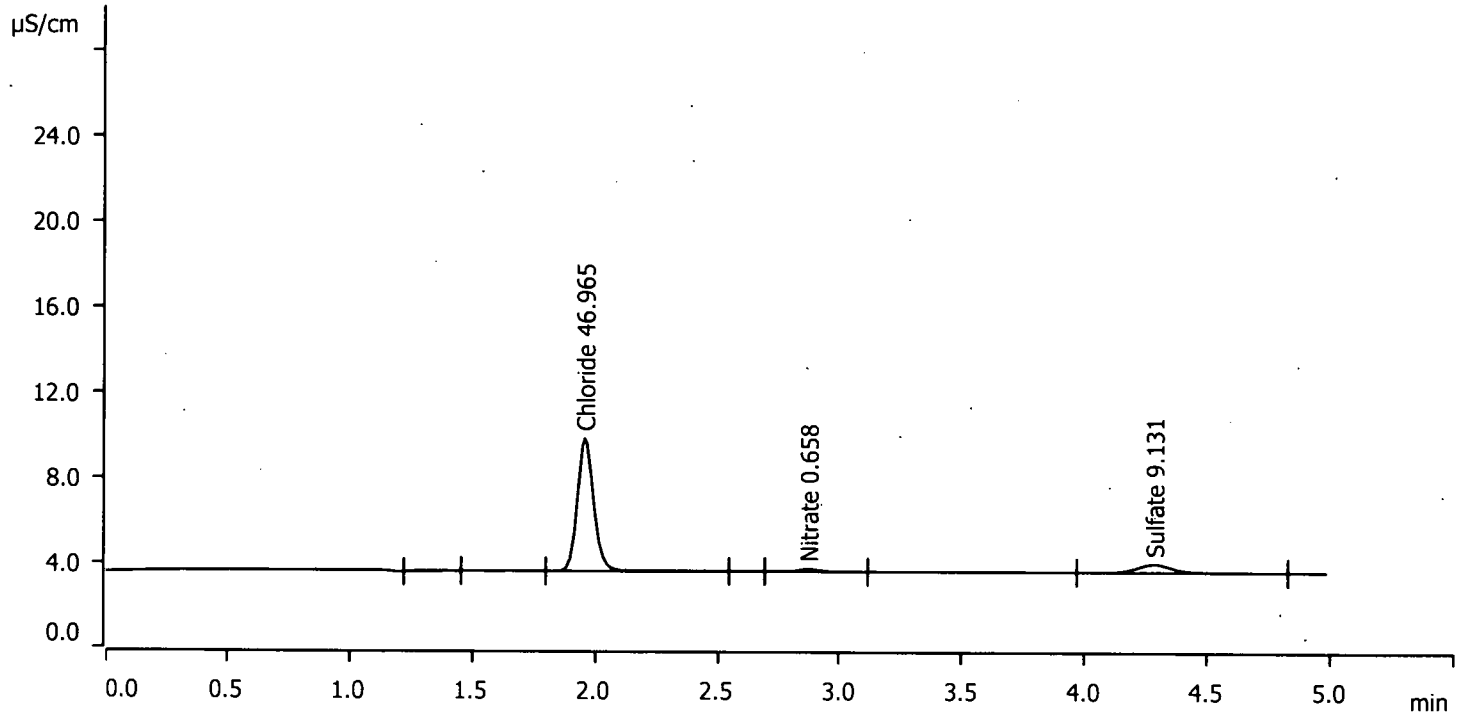
Anions



Sample data

Ident	R2404888-001
Sample type	Sample
Determination start	2024-06-14 08:54:15 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86103
Sample Position	15
Comment 1	300.0 C
Comment 2	

Anions



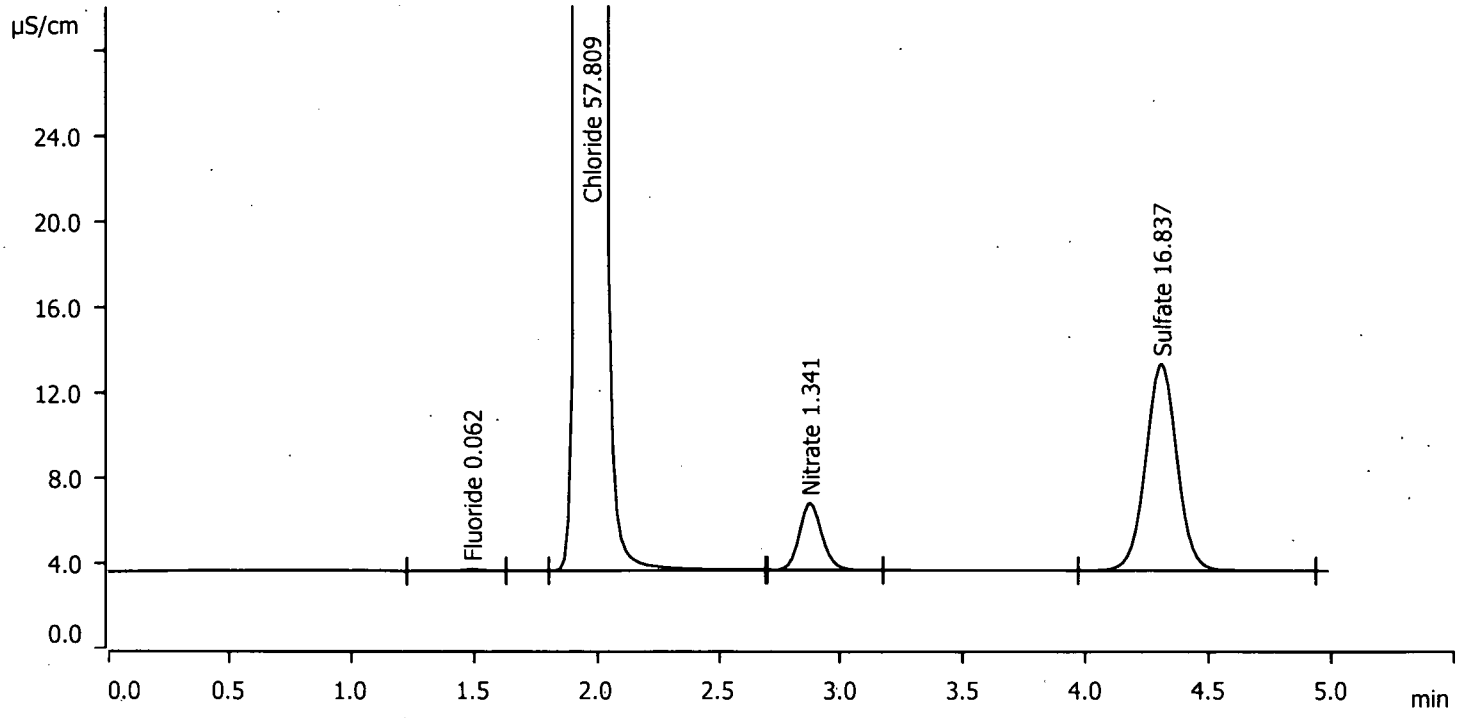
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.476	46.965	Chloride	BB
3	2.87	0.012	0.658	Nitrate	BB
4	4.28	0.064	9.131	Sulfate	BB

Sample data

Ident	R2404888-003
Sample type	Sample
Determination start	2024-06-14 09:00:31 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86104
Sample Position	16
Comment 1	300.0 F
Comment 2	

Anions



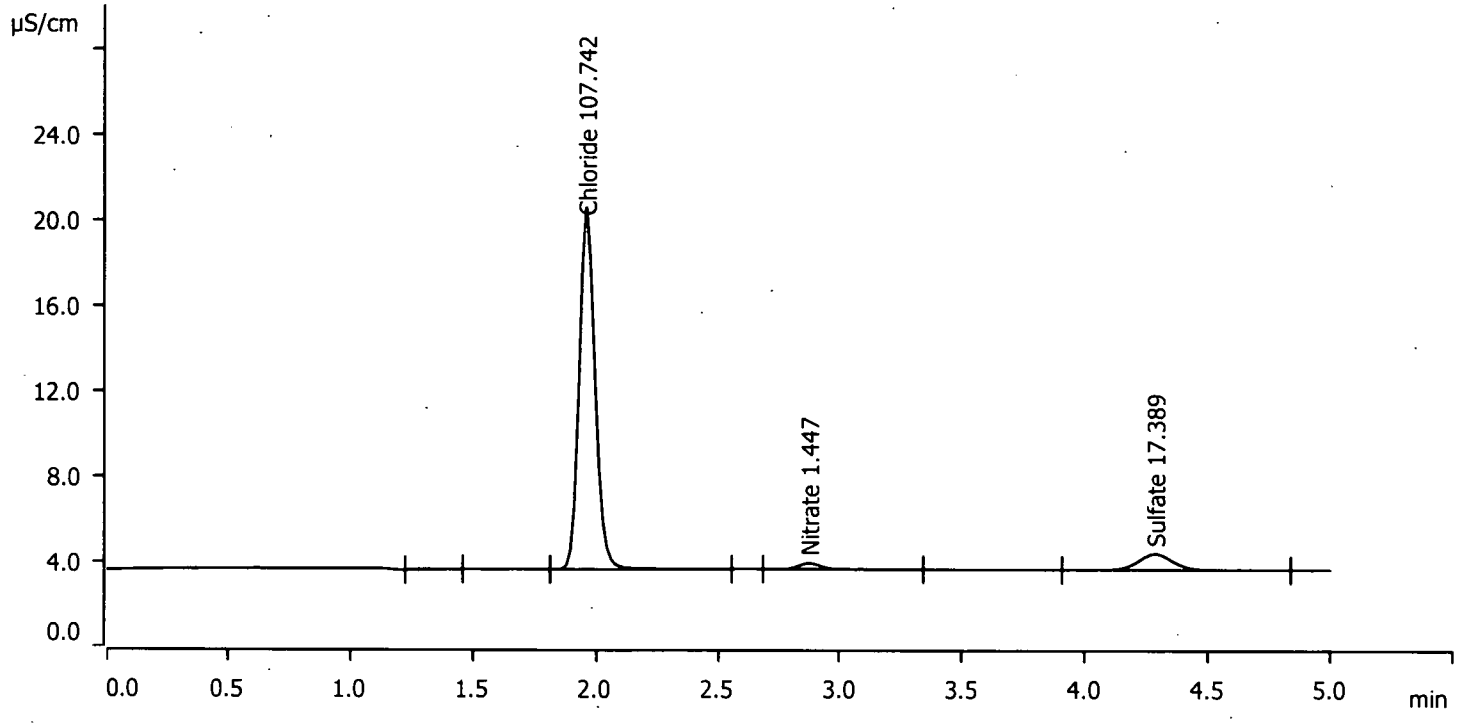
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.49	0.009	0.062	Fluoride	BB
2	1.98	13.932	57.809	Chloride	BB
3	2.87	0.328	1.341	Nitrate	BB
4	4.31	1.433	16.837	Sulfate	BB

Sample data

Ident	R2404888-003
Sample type	Sample
Determination start	2024-06-14 09:06:48 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86105
Sample Position	17
Comment 1	300.0 S
Comment 2	

Anions



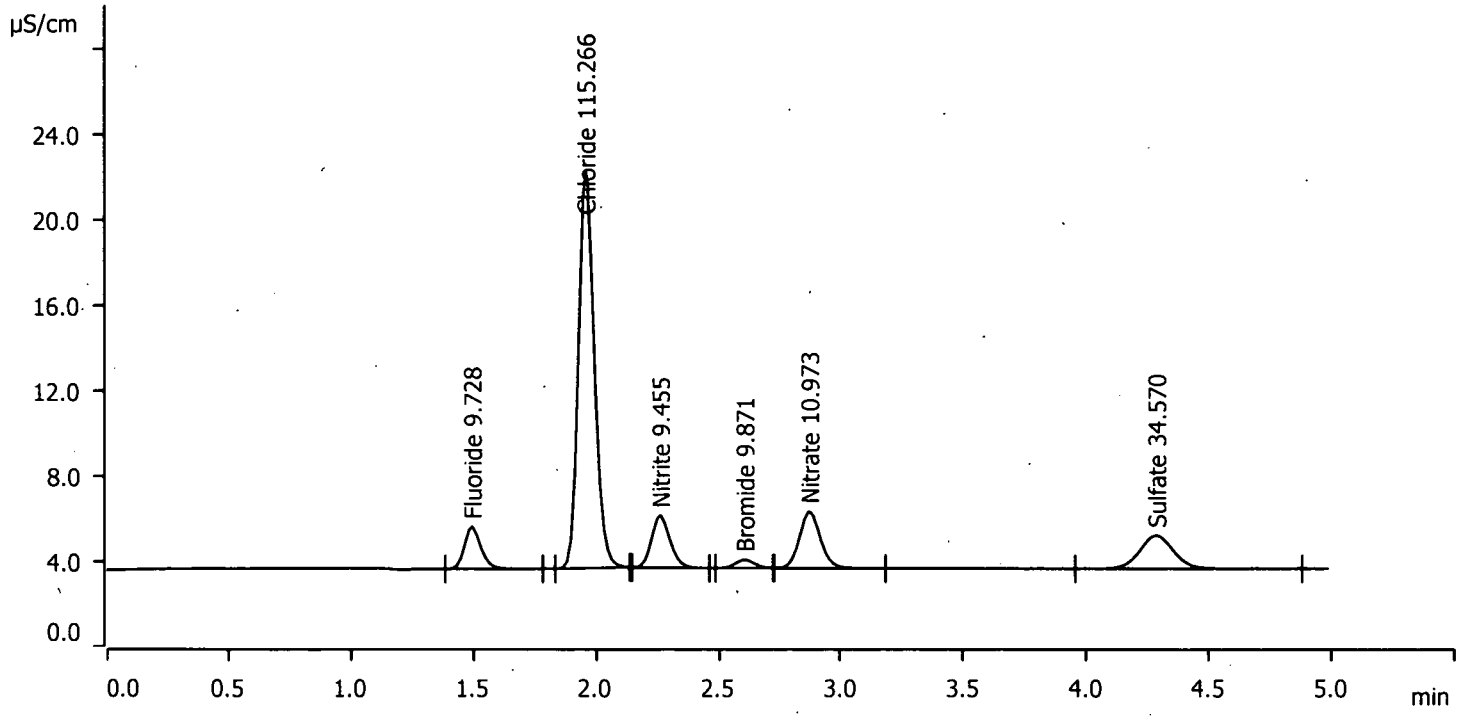
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.95	1.268	107.742	Chloride	BB
3	2.86	0.030	1.447	Nitrate	BB
4	4.27	0.122	17.389	Sulfate	BB

Sample data

Ident	R2404888-003 MS
Sample type	Sample
Determination start	2024-06-14 09:13:05 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86106
Sample Position	18
Comment 1	300.0 S
Comment 2	

Anions



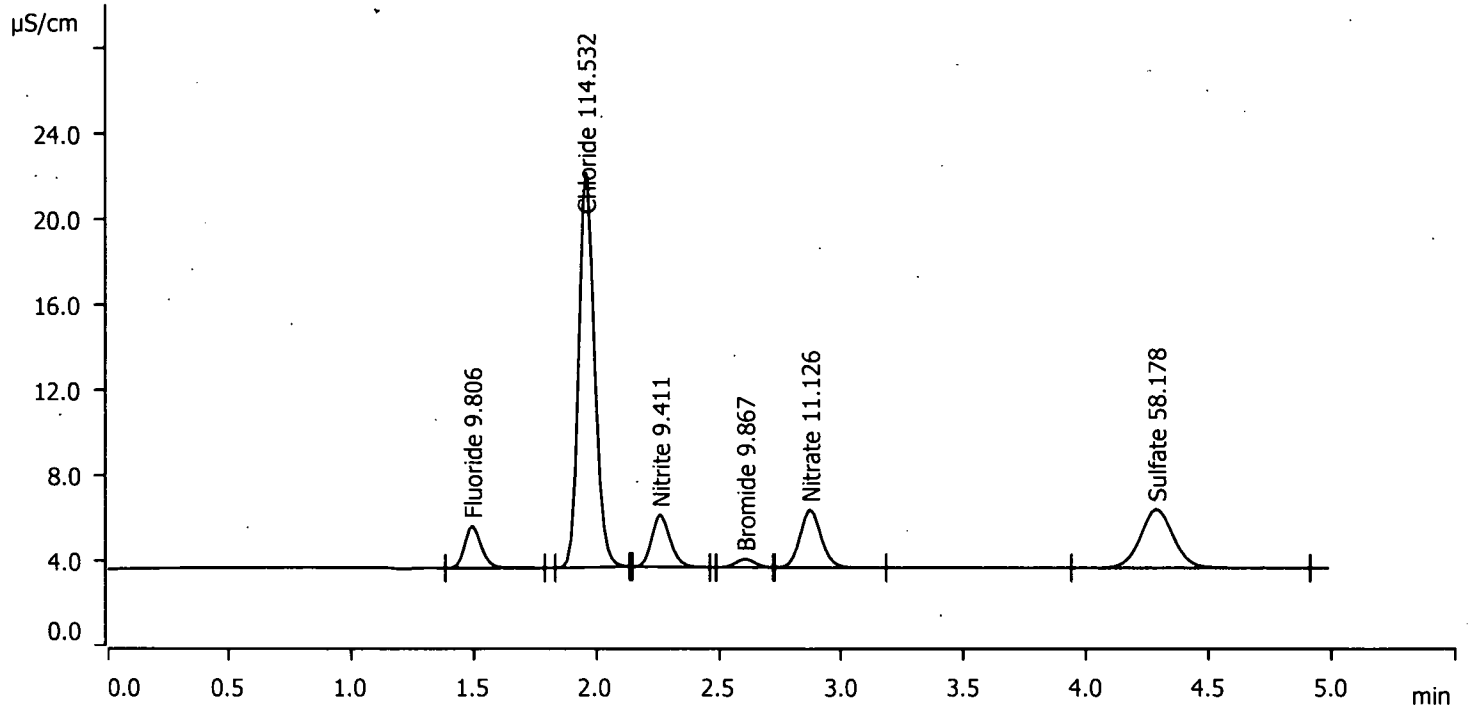
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.155	9.728	Fluoride	BB
2	1.96	1.380	115.266	Chloride	BB
3	2.26	0.215	9.455	Nitrite	BB
4	2.61	0.035	9.871	Bromide	BB
5	2.87	0.264	10.973	Nitrate	BB
6	4.29	0.248	34.570	Sulfate	BB

Sample data

Ident	R2404888-003 MSD
Sample type	Sample
Determination start	2024-06-14 09:19:21 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86107
Sample Position	19
Comment 1	300.0 S
Comment 2	

Anions



Anions

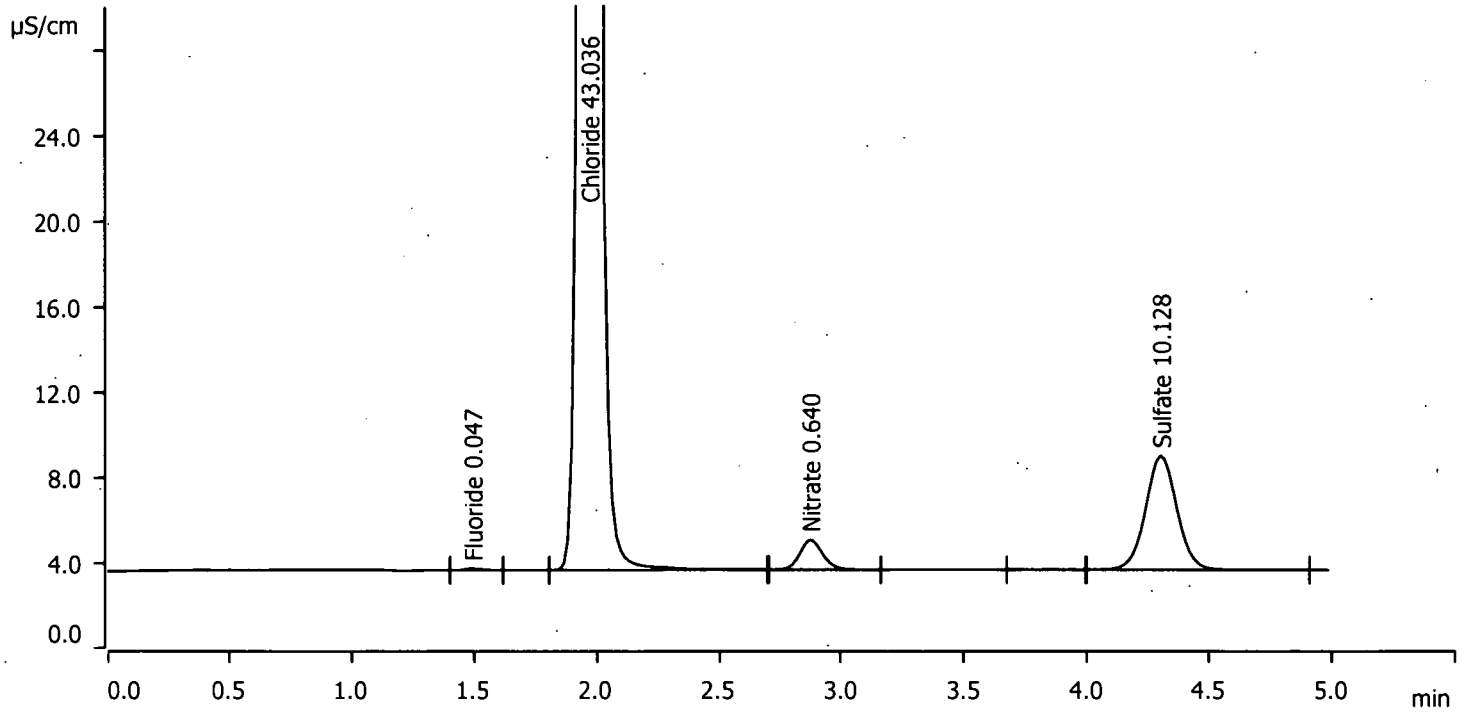
Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.156	9.806	Fluoride	BB
2	1.96	1.369	114.532	Chloride	BB
3	2.26	0.214	9.411	Nitrite	BB
4	2.61	0.035	9.867	Bromide	BB
5	2.87	0.268	11.126	Nitrate	BB
6	4.29	0.432	58.178	Sulfate	BB

ONR - possible SO4 contamination

Sample data

Ident	R2404888-005
Sample type	Sample
Determination start	2024-06-14 09:25:38 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86108
Sample Position	20
Comment 1	300.0 F
Comment 2	

Anions



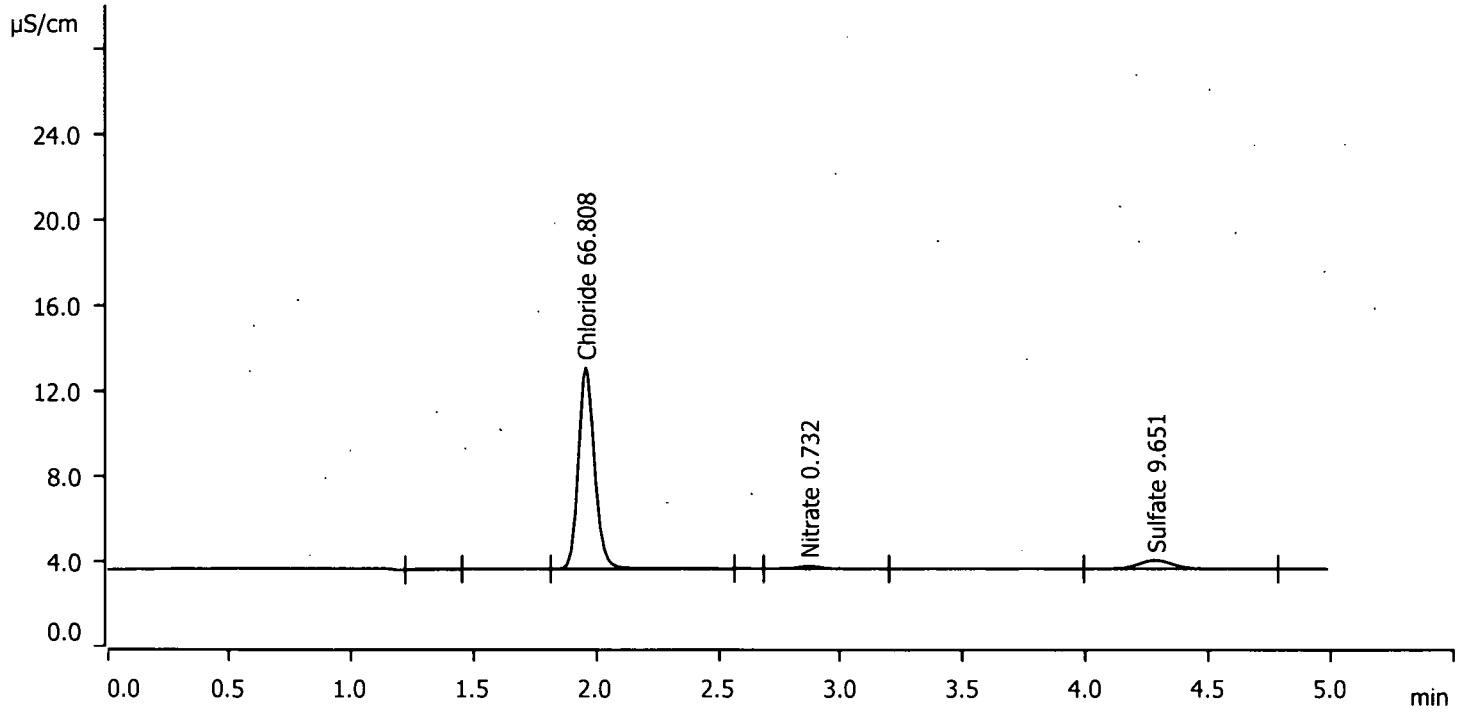
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.007	0.047	Fluoride	BB
2	1.98	8.708	43.036	Chloride	BB
3	2.88	0.149	0.640	Nitrate	BB
5	4.30	0.794	10.128	Sulfate	BB

Sample data

Ident	R2404888-005
Sample type	Sample
Determination start	2024-06-14 09:31:54 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86109
Sample Position	21
Comment 1	300.0 CS
Comment 2	

Anions



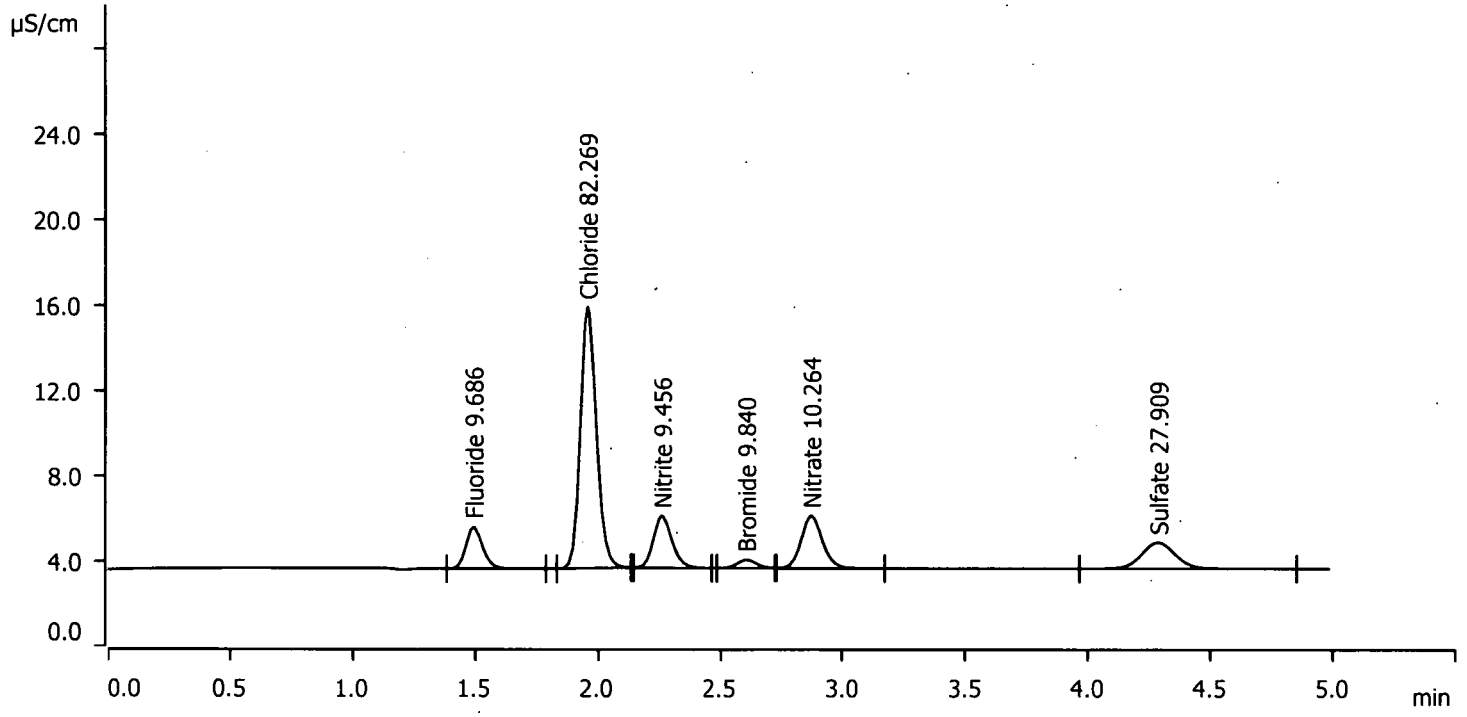
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.713	66.808	Chloride	BB
3	2.87	0.014	0.732	Nitrate	BB
4	4.28	0.067	9.651	Sulfate	BB

Sample data

Ident	R2404888-005 MS
Sample type	Sample
Determination start	2024-06-14 09:38:11 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86110
Sample Position	22
Comment 1	300.0 CS
Comment 2	

Anions



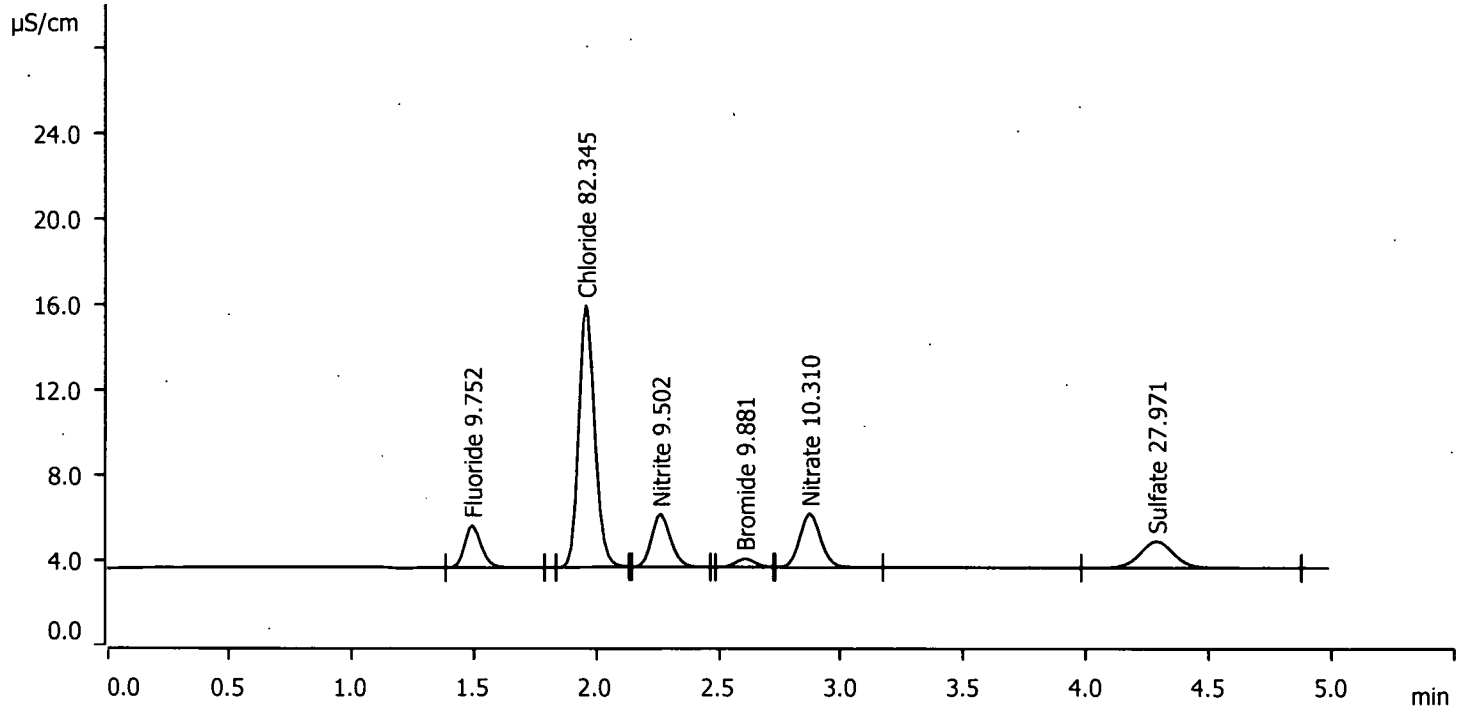
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.154	9.686	Fluoride	BB
2	1.96	0.913	82.269	Chloride	BB
3	2.26	0.215	9.456	Nitrite	BB
4	2.61	0.035	9.840	Bromide	BB
5	2.87	0.246	10.264	Nitrate	BB
6	4.29	0.199	27.909	Sulfate	BB

Sample data

Ident	R2404888-005 MSD
Sample type	Sample
Determination start	2024-06-14 09:44:27 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86111
Sample Position	23
Comment 1	300.0 CS
Comment 2	

Anions



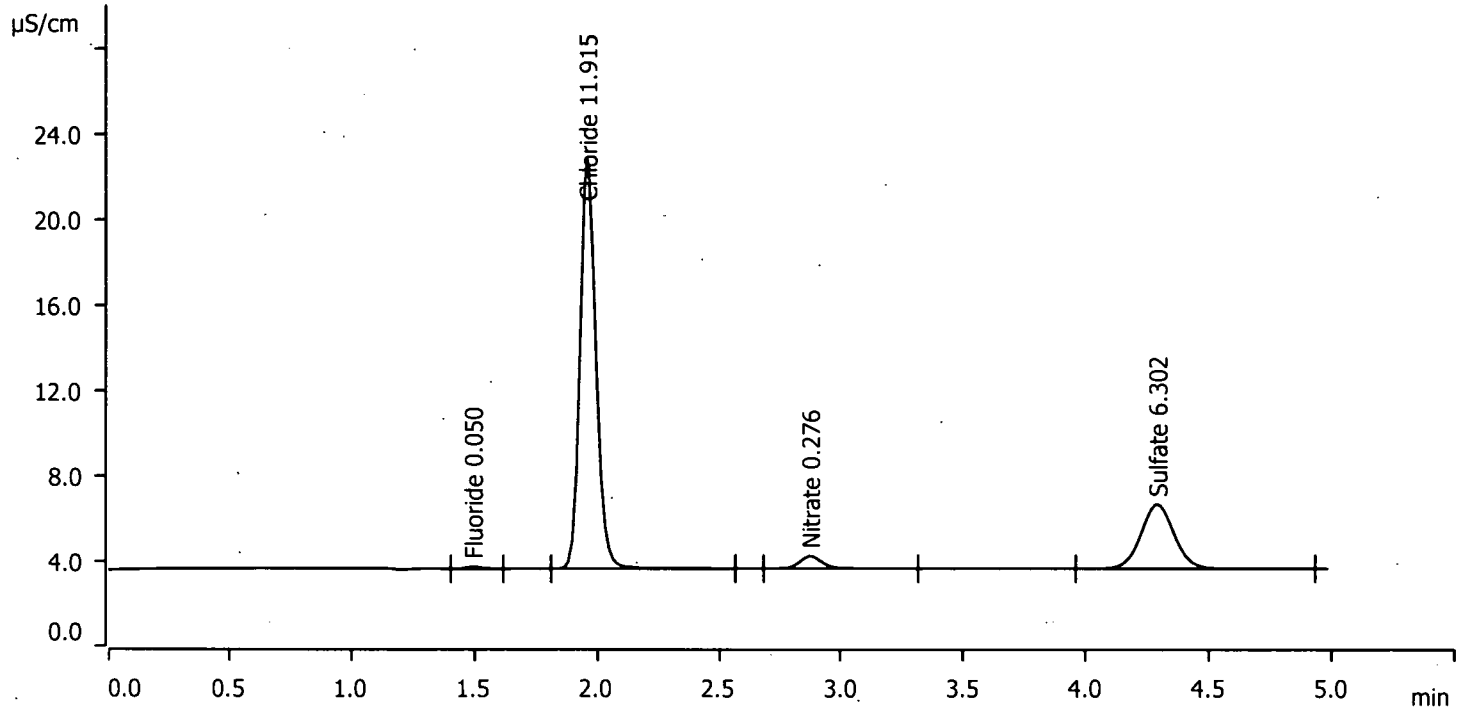
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.155	9.752	Fluoride	BB
2	1.96	0.914	82.345	Chloride	BB
3	2.26	0.216	9.502	Nitrite	BB
4	2.61	0.035	9.881	Bromide	BB
5	2.87	0.247	10.310	Nitrate	BB
6	4.29	0.199	27.971	Sulfate	BB

Sample data

Ident	R2405888-007
Sample type	Sample
Determination start	2024-06-14 09:50:44 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86112
Sample Position	24
Comment 1	300.0 FS
Comment 2	

Anions



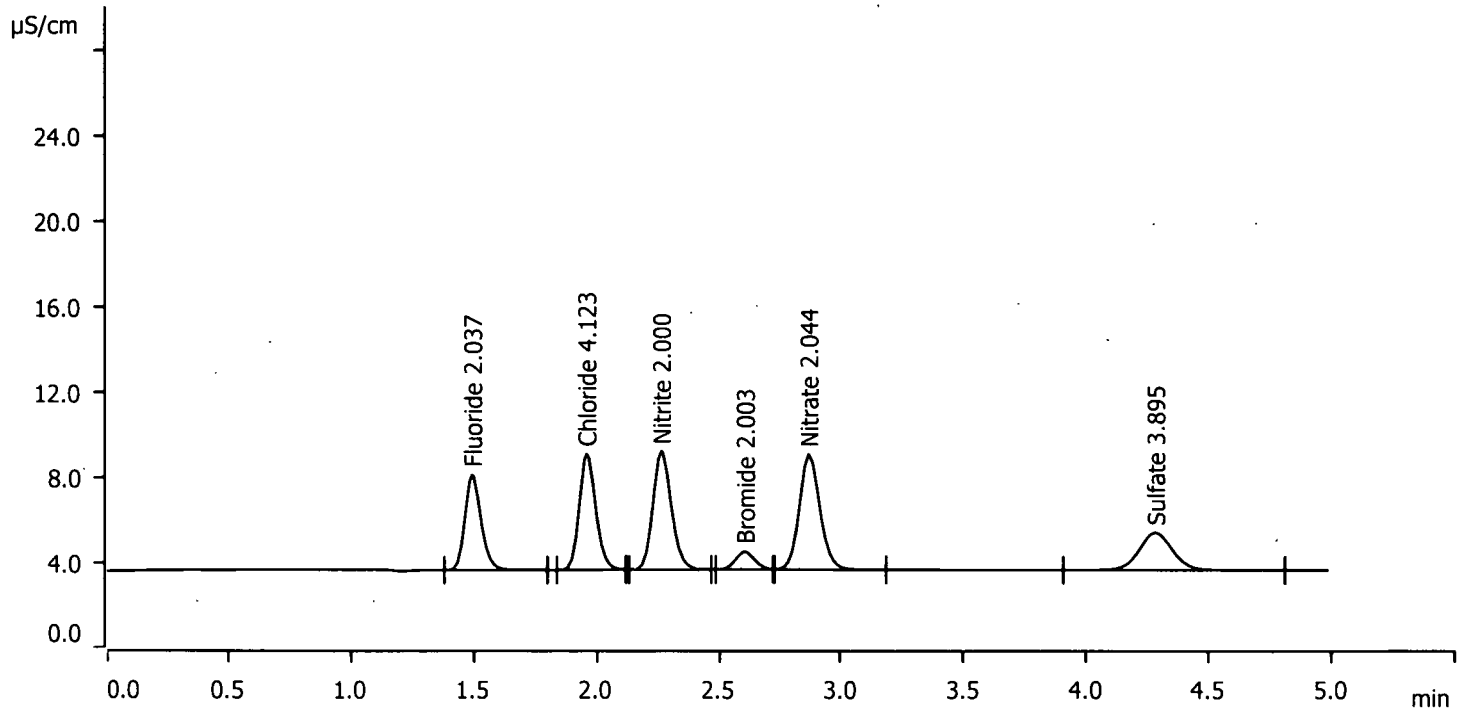
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.007	0.050	Fluoride	BB
2	1.96	1.438	11.915	Chloride	BB
3	2.87	0.061	0.276	Nitrate	BB
4	4.29	0.470	6.302	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-06-14 09:57:00 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86113
Sample Position	25
Comment 1	300.0/9056A
Comment 2	

Anions



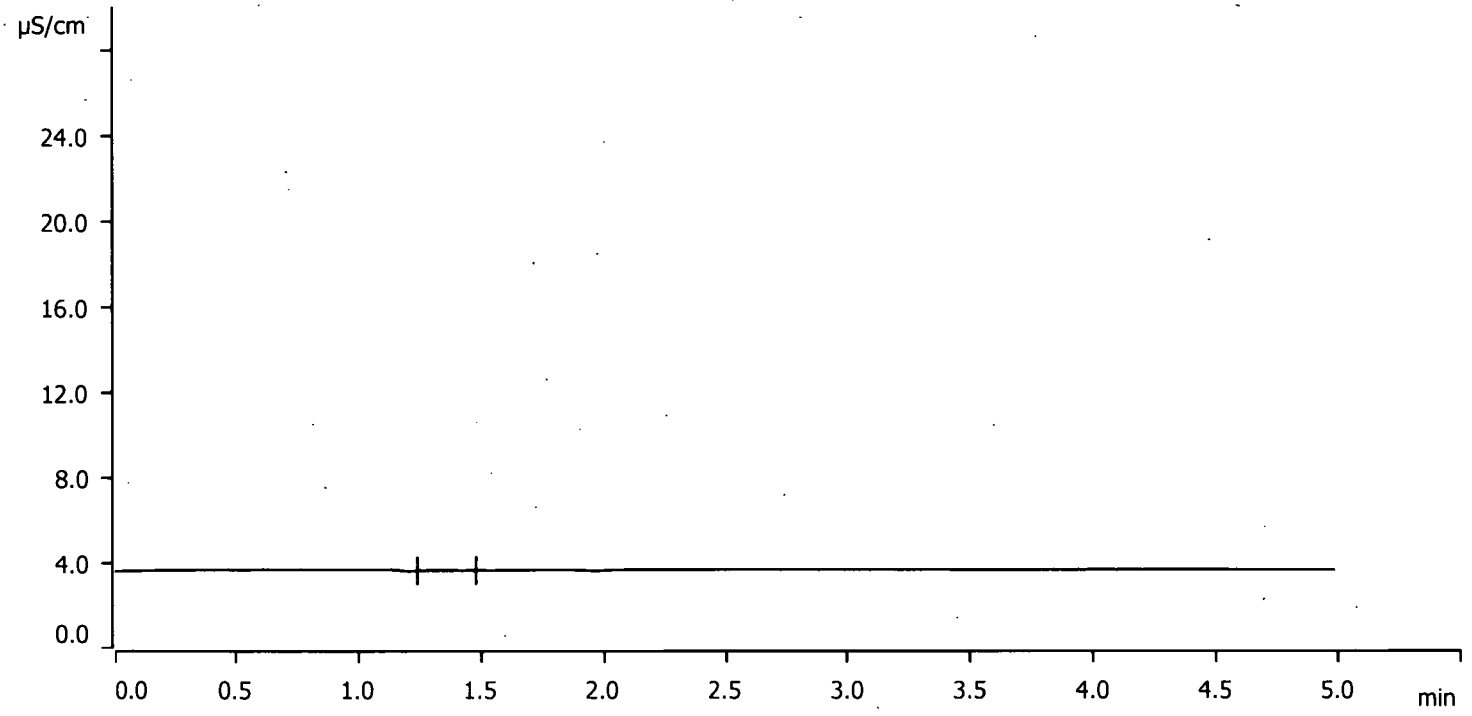
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.342	2.037	Fluoride	BB
2	1.96	0.411	4.123	Chloride	BB
3	2.26	0.480	2.000	Nitrite	BB
4	2.61	0.074	2.003	Bromide	BB
5	2.87	0.521	2.044	Nitrate	BB
6	4.28	0.282	3.895	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-06-14 10:03:17 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86114
Sample Position	26
Comment 1	300.0/9056A
Comment 2	

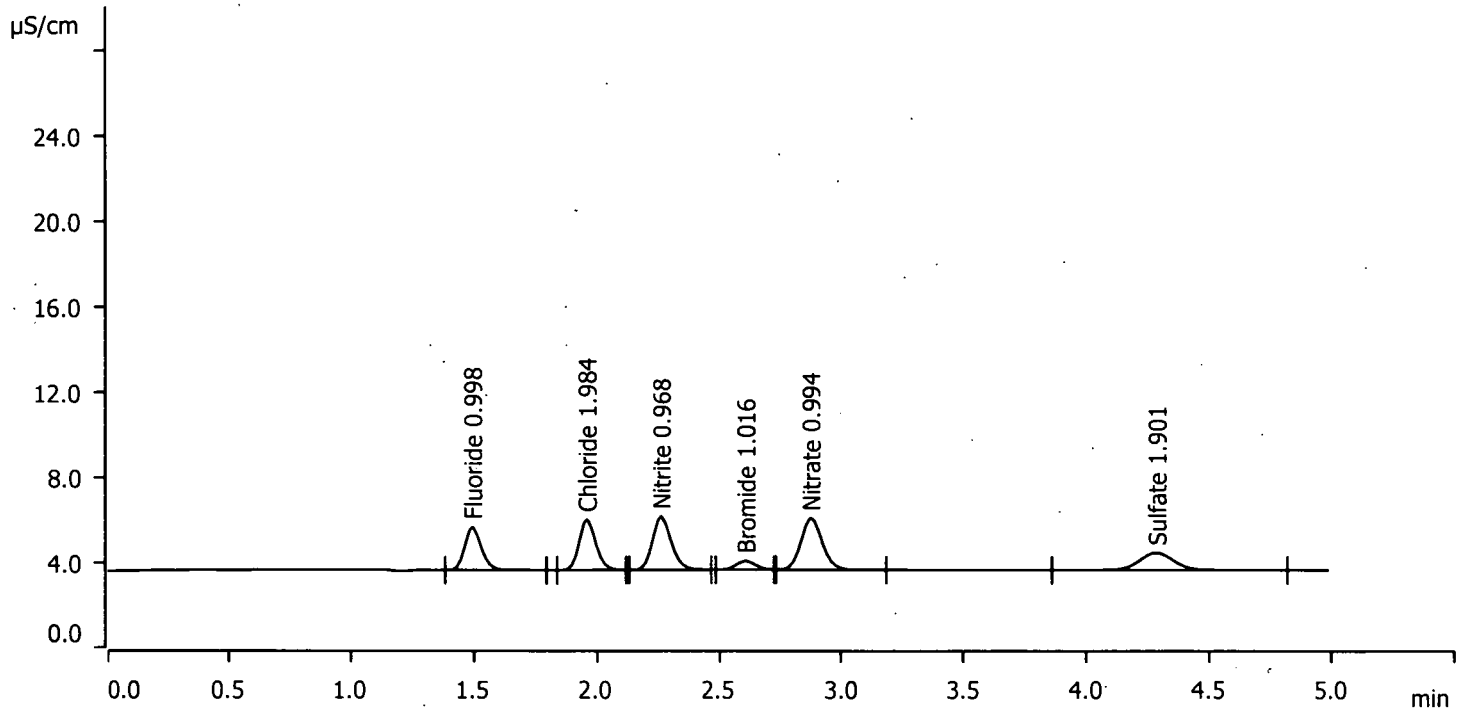
Anions



Sample data

Ident	LCS
Sample type	Check standard 2
Determination start	2024-06-14 10:09:34 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86115
Sample Position	27
Comment 1	300.0/9056A
Comment 2	

Anions



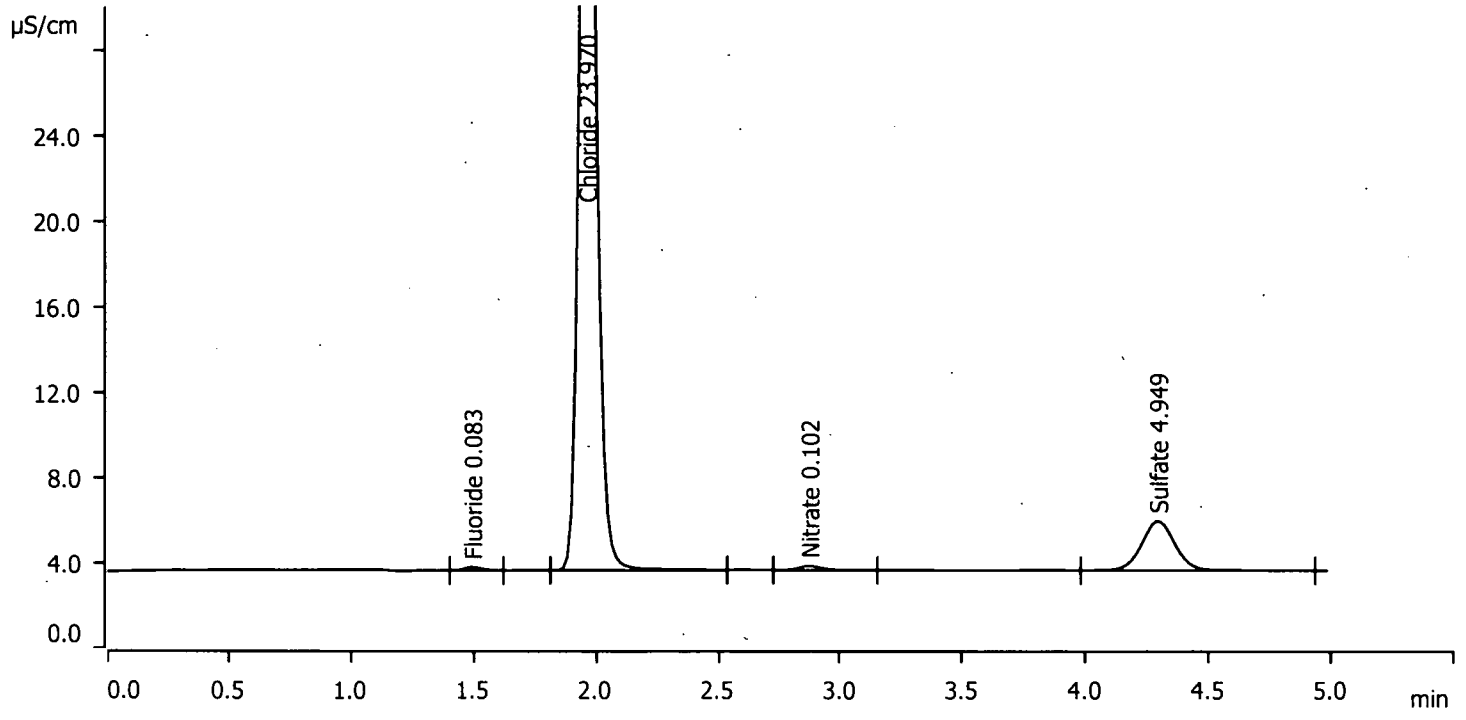
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.159	0.998	Fluoride	BB
2	1.96	0.185	1.984	Chloride	BB
3	2.27	0.221	0.968	Nitrite	BB
4	2.61	0.037	1.016	Bromide	BB
5	2.87	0.237	0.994	Nitrate	BB
6	4.28	0.134	1.901	Sulfate	BB

Sample data

Ident	R2404888-009
Sample type	Sample
Determination start	2024-06-14 10:15:51 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86116
Sample Position	28
Comment 1	300.0 FS
Comment 2	

Anions



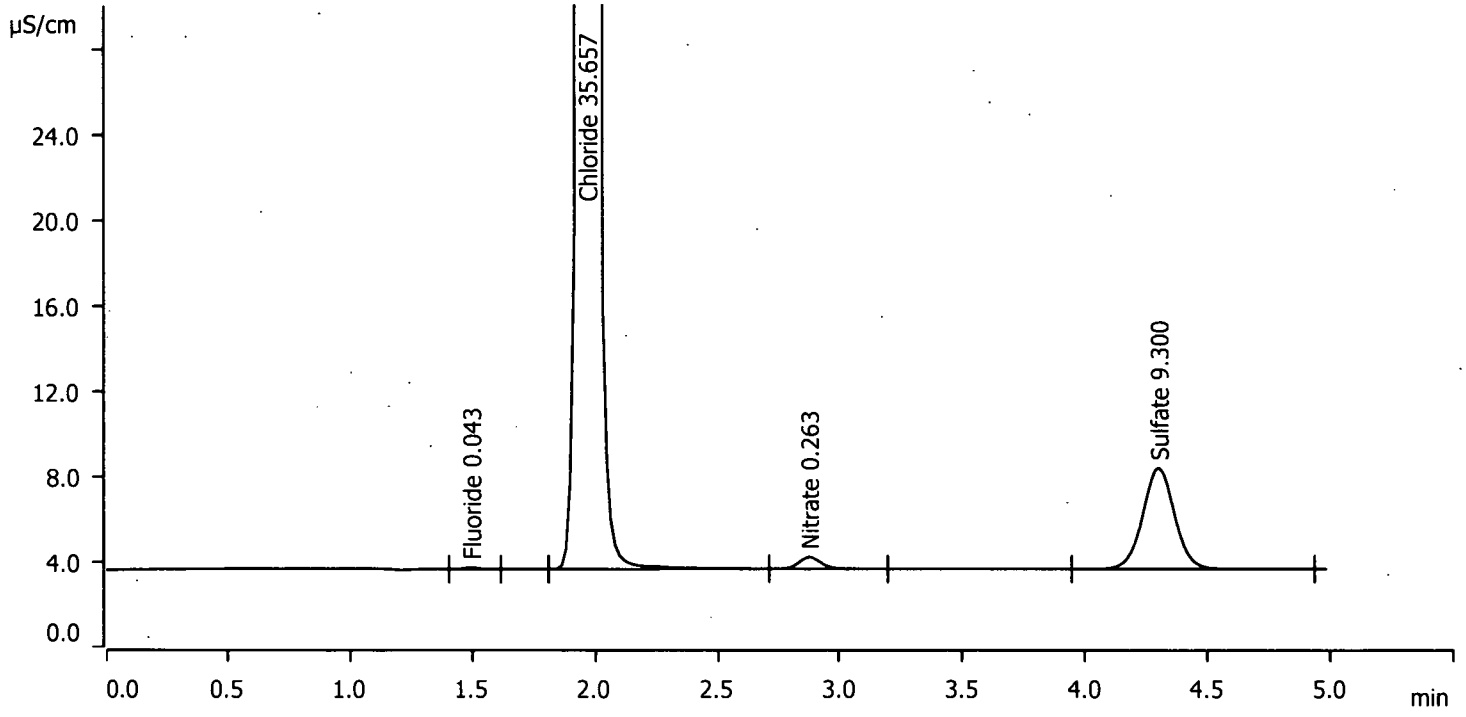
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.012	0.083	Fluoride	BB
2	1.97	3.653	23.970	Chloride	BB
3	2.88	0.020	0.102	Nitrate	BB
4	4.29	0.363	4.949	Sulfate	BB

Sample data

Ident	R2404888-011
Sample type	Sample
Determination start	2024-06-14 10:22:07 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86117
Sample Position	29
Comment 1	300.0 FS
Comment 2	

Anions



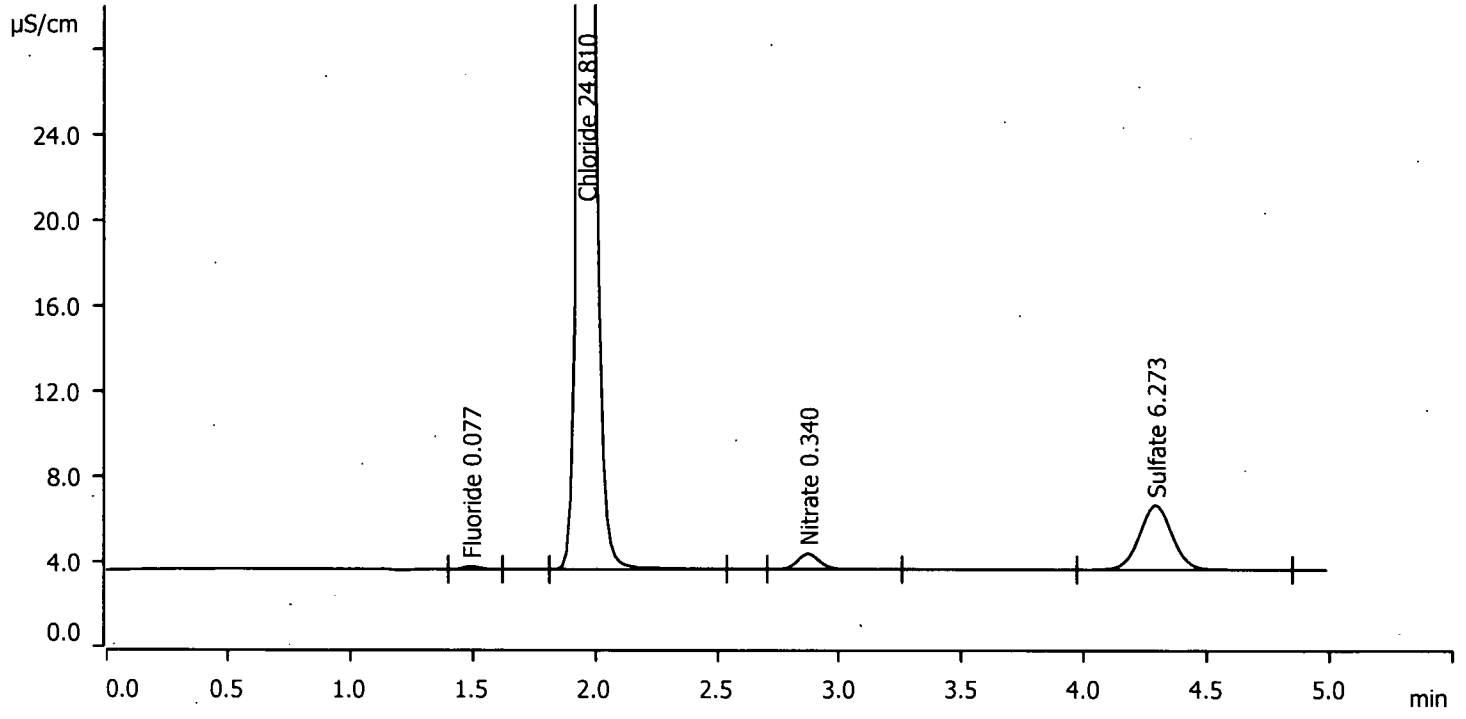
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.006	0.043	Fluoride	BB
2	1.97	6.526	35.657	Chloride	BB
3	2.88	0.058	0.263	Nitrate	BB
4	4.30	0.722	9.300	Sulfate	BB

Sample data

Ident	R2404888-013
Sample type	Sample
Determination start	2024-06-14 10:28:24 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86118
Sample Position	30
Comment 1	300.0 FS
Comment 2	

Anions



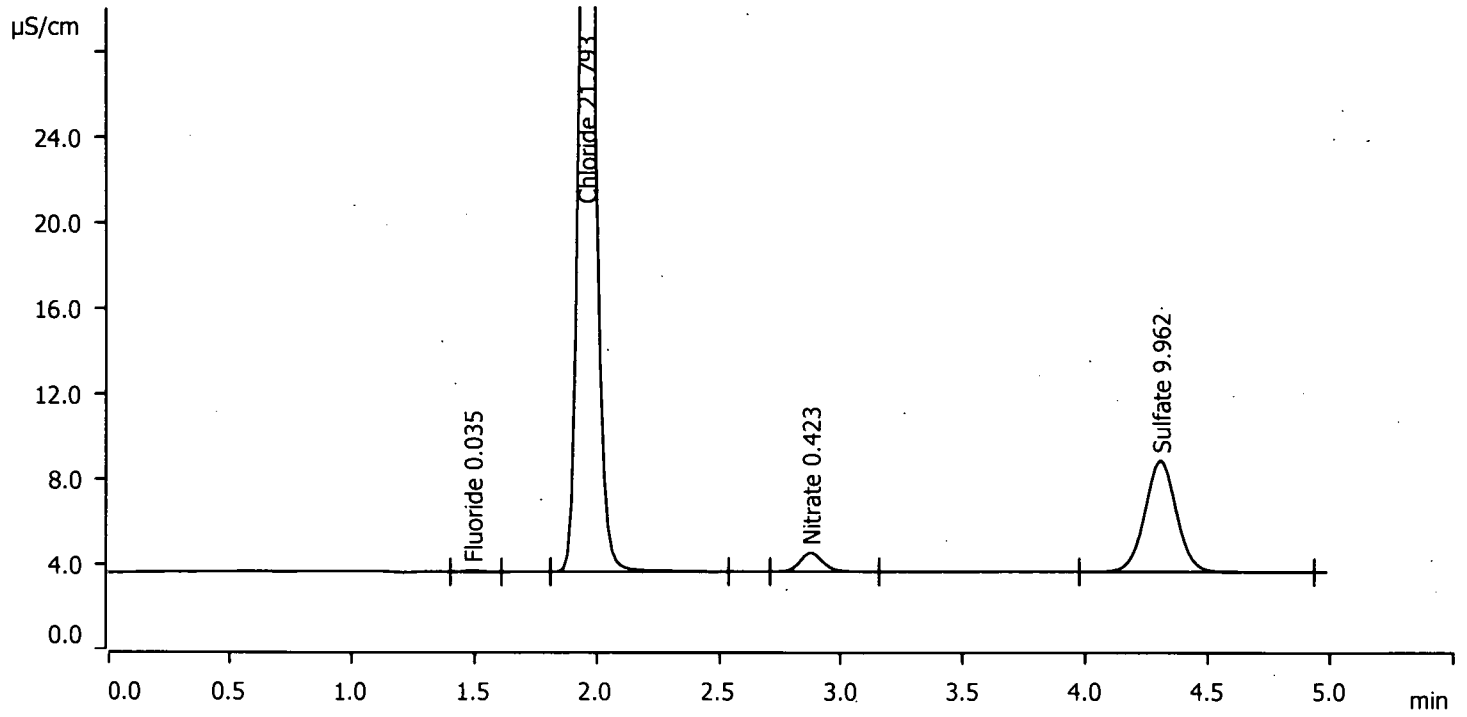
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.011	0.077	Fluoride	BB
2	1.97	3.836	24.810	Chloride	BB
3	2.87	0.076	0.340	Nitrate	BB
4	4.29	0.468	6.273	Sulfate	BB

Sample data

Ident	R2404888-015
Sample type	Sample
Determination start	2024-06-14 10:35:40 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86119
Sample Position	31
Comment 1	300.0 FS
Comment 2	

Anions



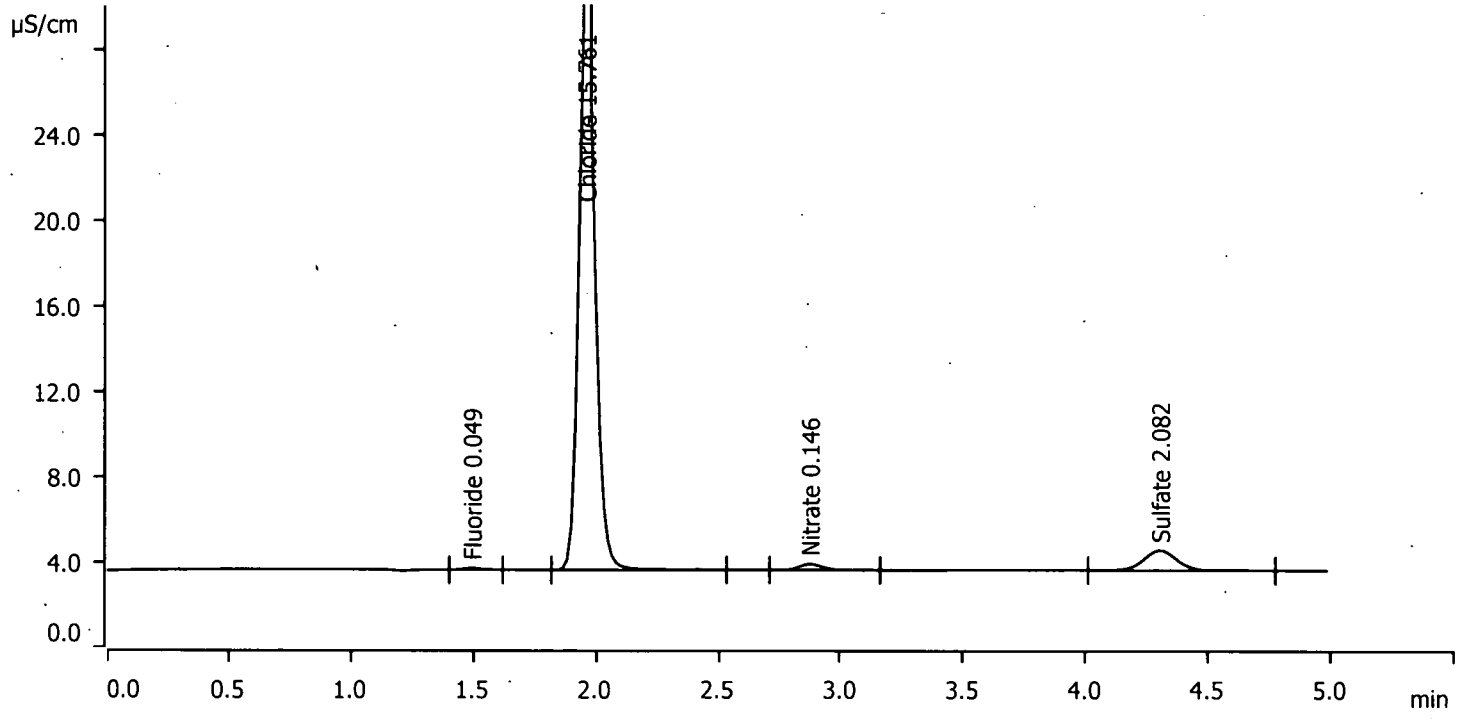
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.005	0.035	Fluoride	BB
2	1.96	3.197	21.793	Chloride	BB
3	2.88	0.096	0.423	Nitrate	BB
4	4.31	0.780	9.962	Sulfate	BB

Sample data

Ident	R2404888-017
Sample type	Sample
Determination start	2024-06-14 10:42:11 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86120
Sample Position	32
Comment 1	300.0 FS
Comment 2	

Anions



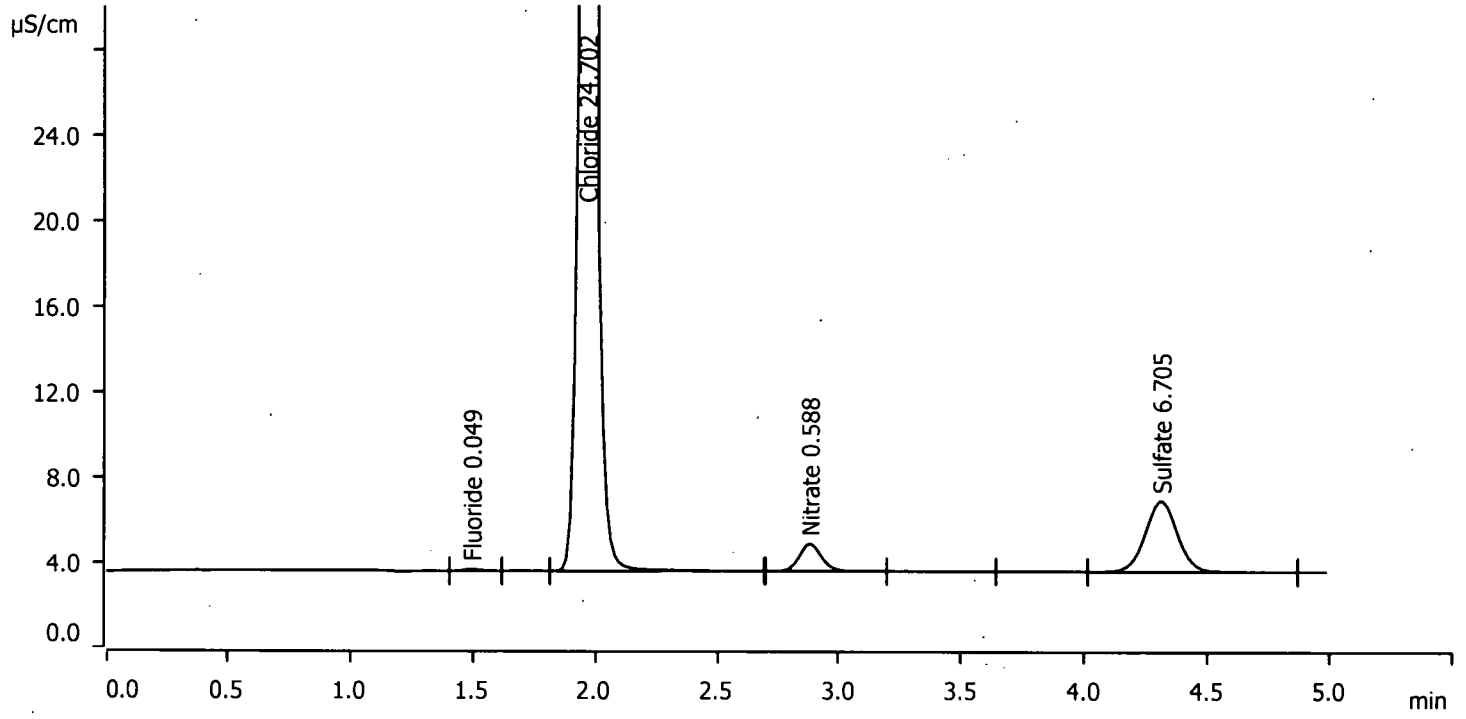
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.007	0.049	Fluoride	BB
2	1.96	2.063	15.761	Chloride	BB
3	2.88	0.030	0.146	Nitrate	BB
4	4.30	0.147	2.082	Sulfate	BB

Sample data

Ident	R2404888-019
Sample type	Sample
Determination start	2024-06-14 10:48:34 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86121
Sample Position	33
Comment 1	300.0 FS
Comment 2	

Anions



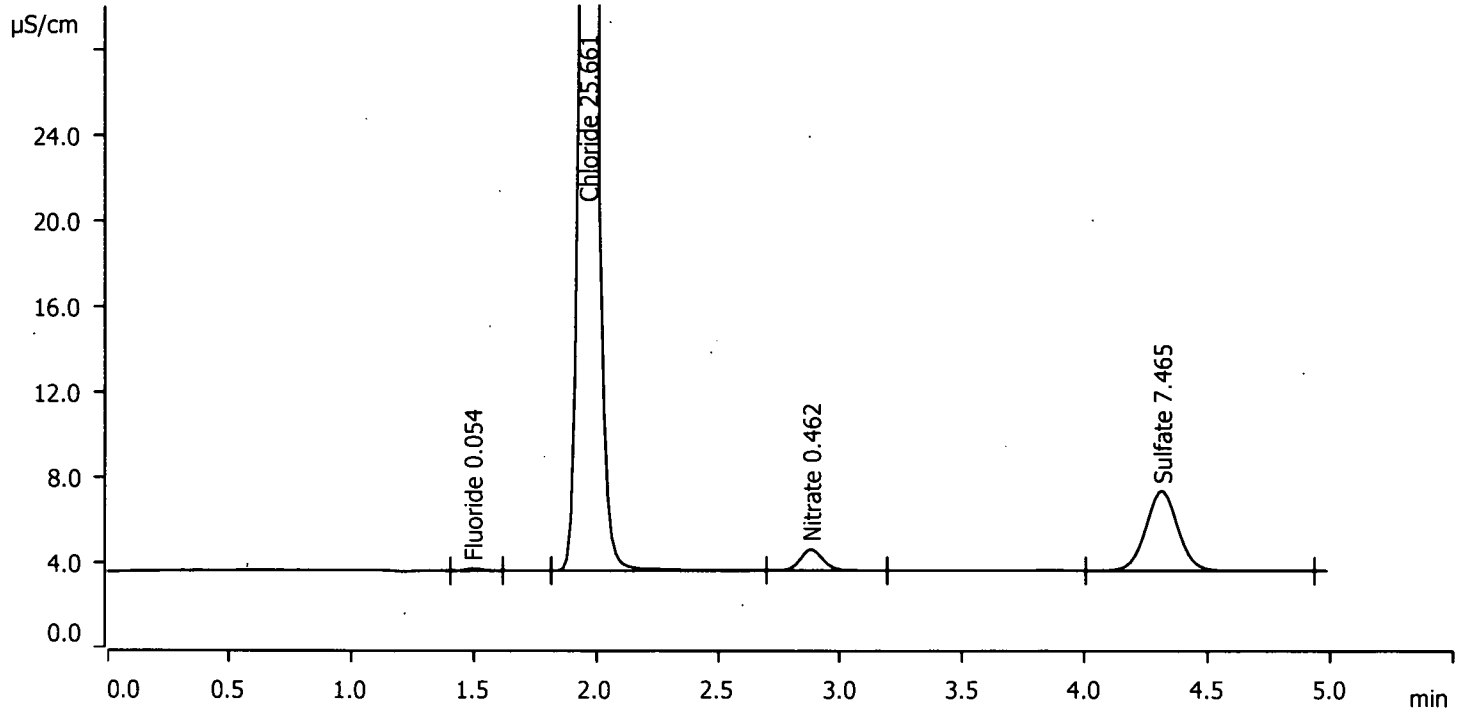
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.007	0.049	Fluoride	BB
2	1.97	3.812	24.702	Chloride	BB
3	2.88	0.136	0.588	Nitrate	BB
5	4.31	0.503	6.705	Sulfate	BB

Sample data

Ident	R2404888-021
Sample type	Sample
Determination start	2024-06-14 10:54:56 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86122
Sample Position	34
Comment 1	300.0 FS
Comment 2	

Anions



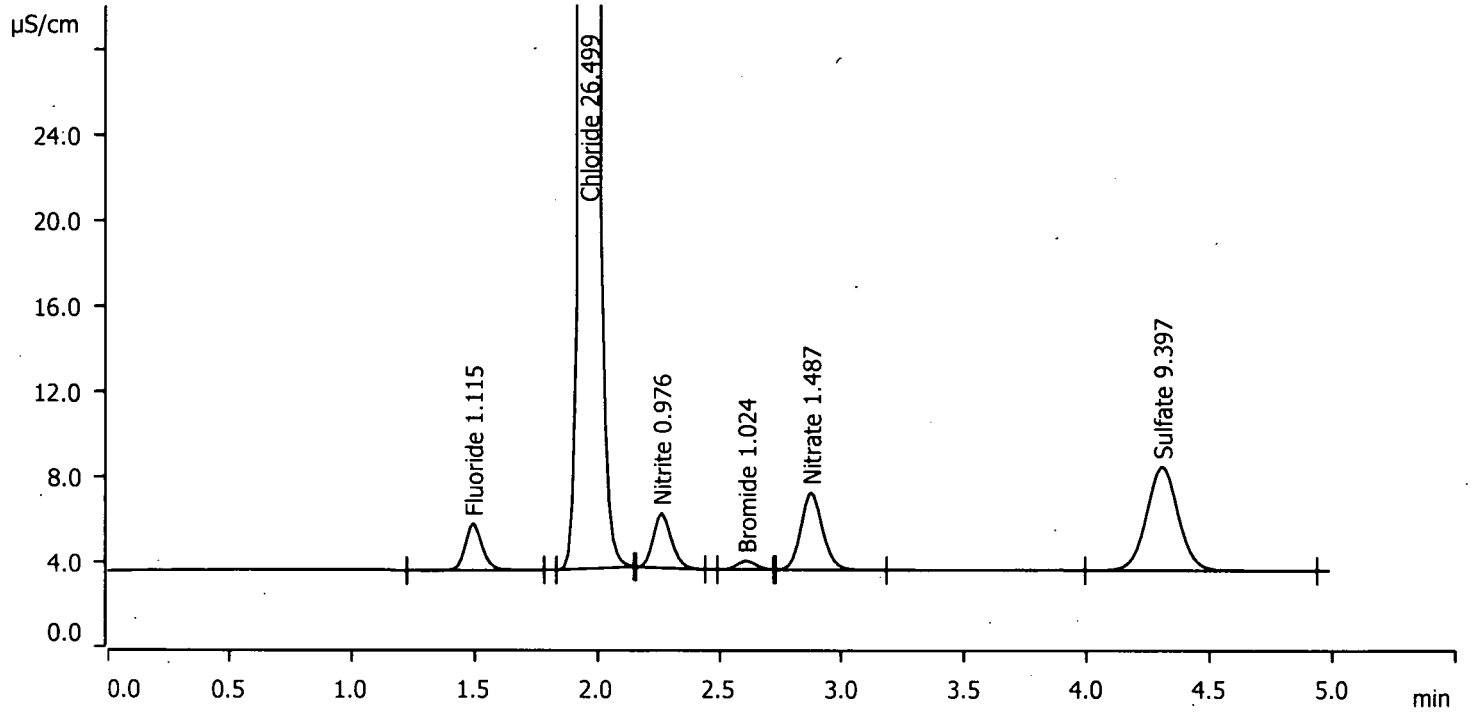
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.008	0.054	Fluoride	BB
2	1.97	4.025	25.661	Chloride	BB
3	2.88	0.105	0.462	Nitrate	BB
4	4.31	0.566	7.465	Sulfate	BB

Sample data

Ident	R2404888-021 MS!
Sample type	Sample
Determination start	2024-06-14 11:01:21 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86123
Sample Position	35
Comment 1	300.0 FS
Comment 2	

Anions



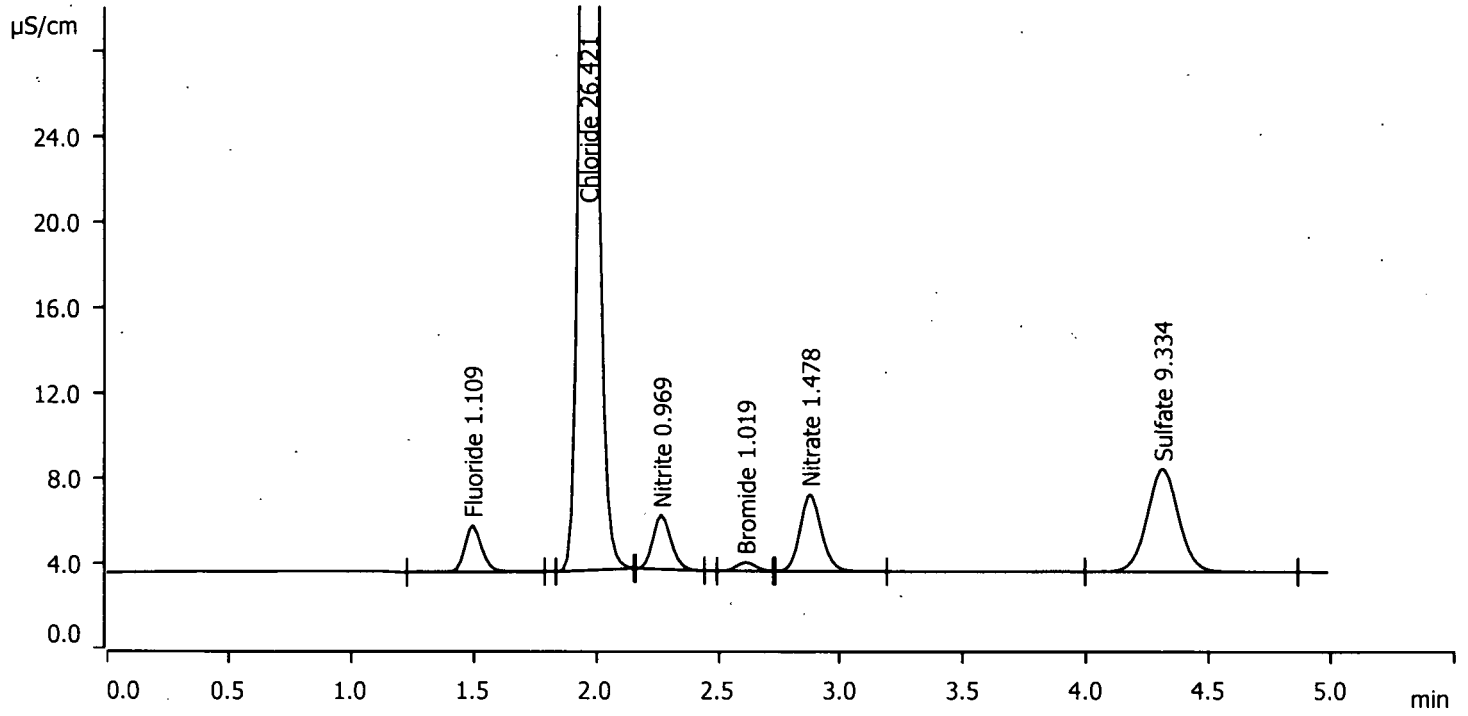
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.179	1.115	Fluoride	BB
2	1.97	4.215	26.499	Chloride	BB
3	2.27	0.222	0.976	Nitrite	BB
4	2.61	0.037	1.024	Bromide	BB
5	2.88	0.367	1.487	Nitrate	BB
6	4.31	0.730	9.397	Sulfate	BB

Sample data

Ident	R2404888-021 MSD!
Sample type	Sample
Determination start	2024-06-14 11:07:46 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86124
Sample Position	36
Comment 1	300.0 FS
Comment 2	

Anions



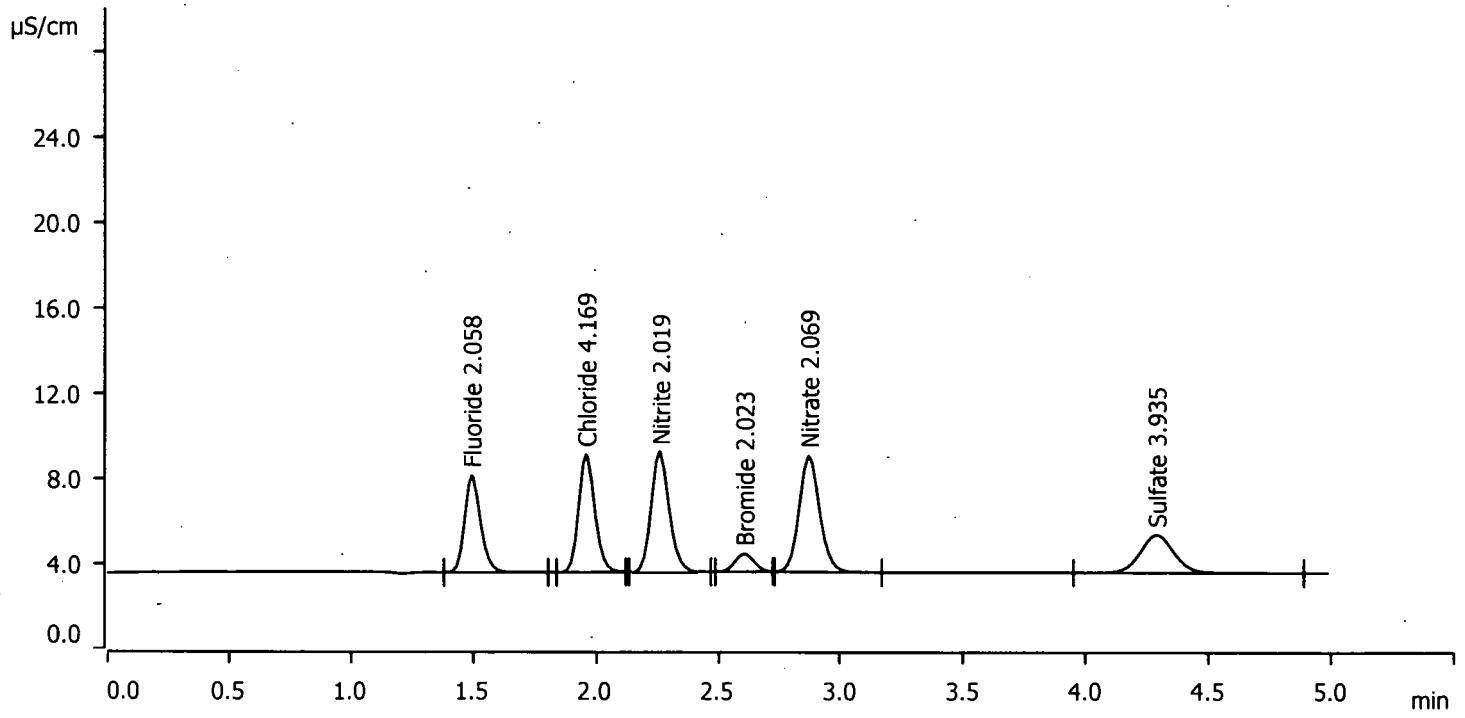
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.178	1.109	Fluoride	BB
2	1.97	4.197	26.421	Chloride	BB
3	2.27	0.221	0.969	Nitrite	BB
4	2.61	0.037	1.019	Bromide	BB
5	2.88	0.364	1.478	Nitrate	BB
6	4.31	0.725	9.334	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-06-14 11:14:11 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86125
Sample Position	37
Comment 1	300.0/9056A
Comment 2	

Anions



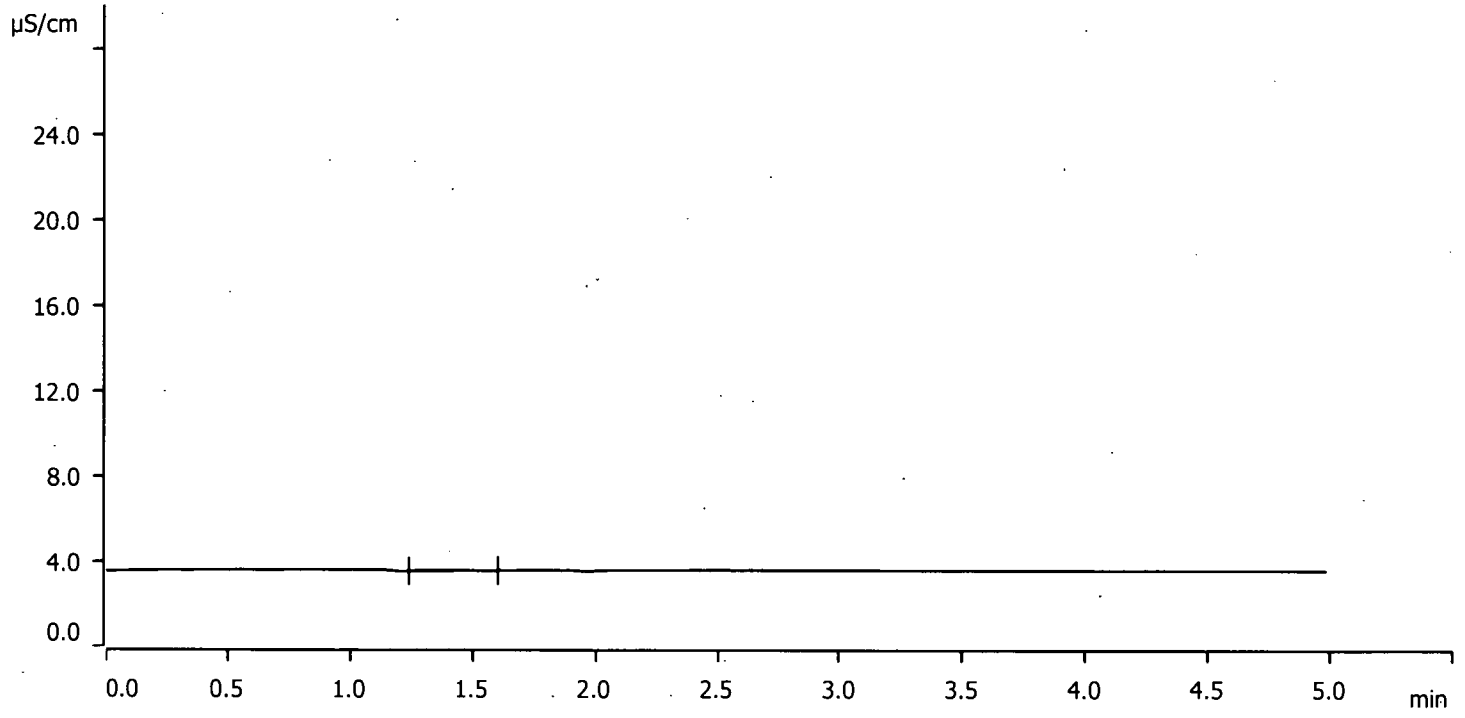
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.346	2.058	Fluoride	BB
2	1.96	0.416	4.169	Chloride	BB
3	2.27	0.485	2.019	Nitrite	BB
4	2.61	0.075	2.023	Bromide	BB
5	2.87	0.528	2.069	Nitrate	BB
6	4.29	0.285	3.935	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-06-14 11:20:38 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86126
Sample Position	38
Comment 1	300.0/9056A
Comment 2	

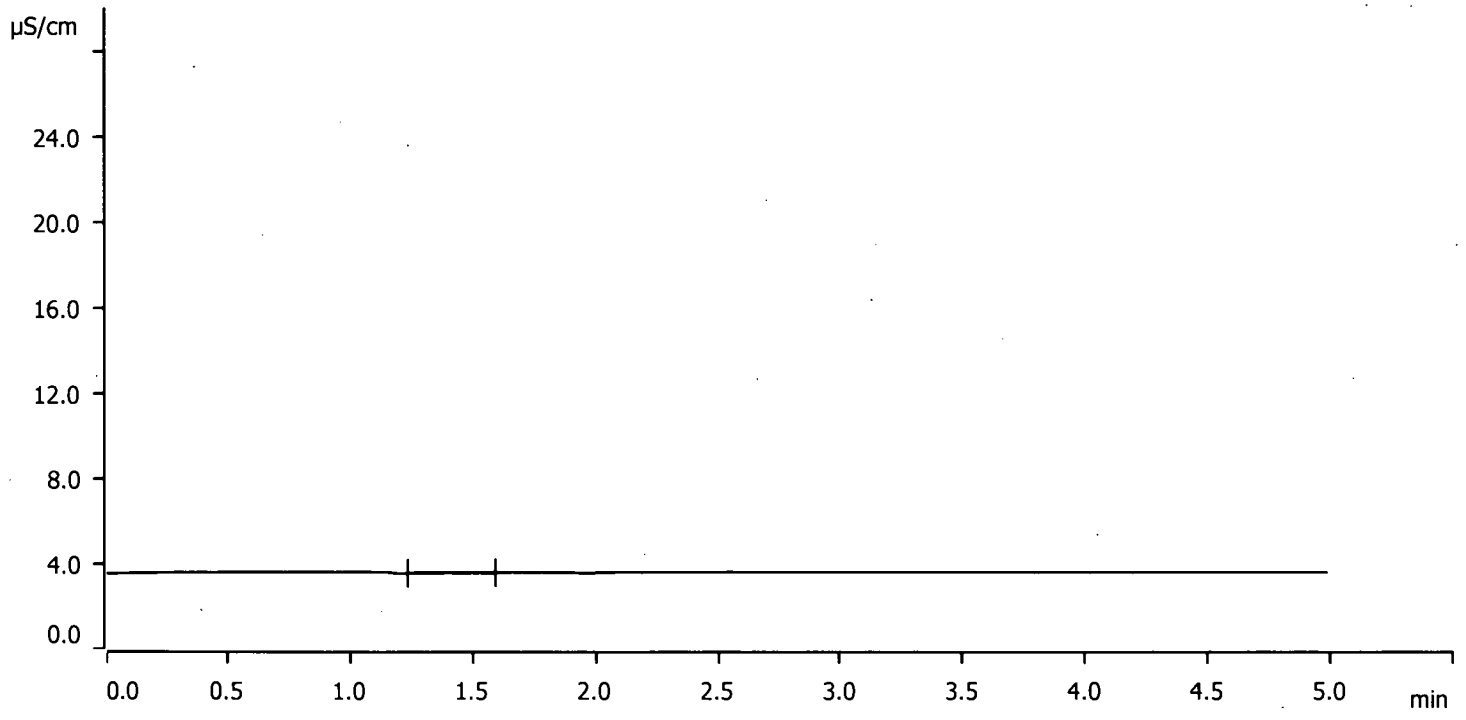
Anions



Sample data

Ident	R2404888-023
Sample type	Sample
Determination start	2024-06-14 11:26:59 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86127
Sample Position	39
Comment 1	300.0 FCS
Comment 2	

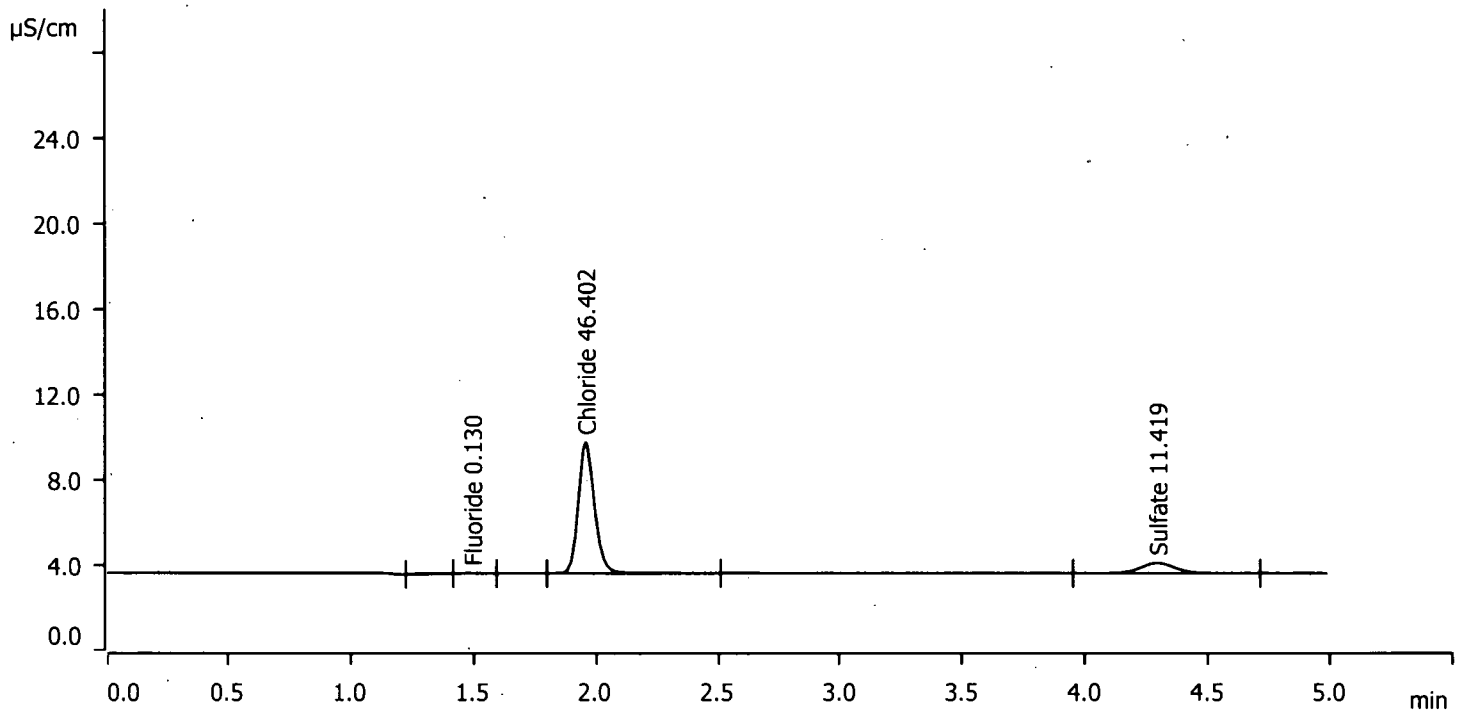
Anions



Sample data

Ident	R2405309-013
Sample type	Sample
Determination start	2024-06-14 12:23:42 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86128
Sample Position	40
Comment 1	300.0 CBNS
Comment 2	MW-1B BARTON

Anions



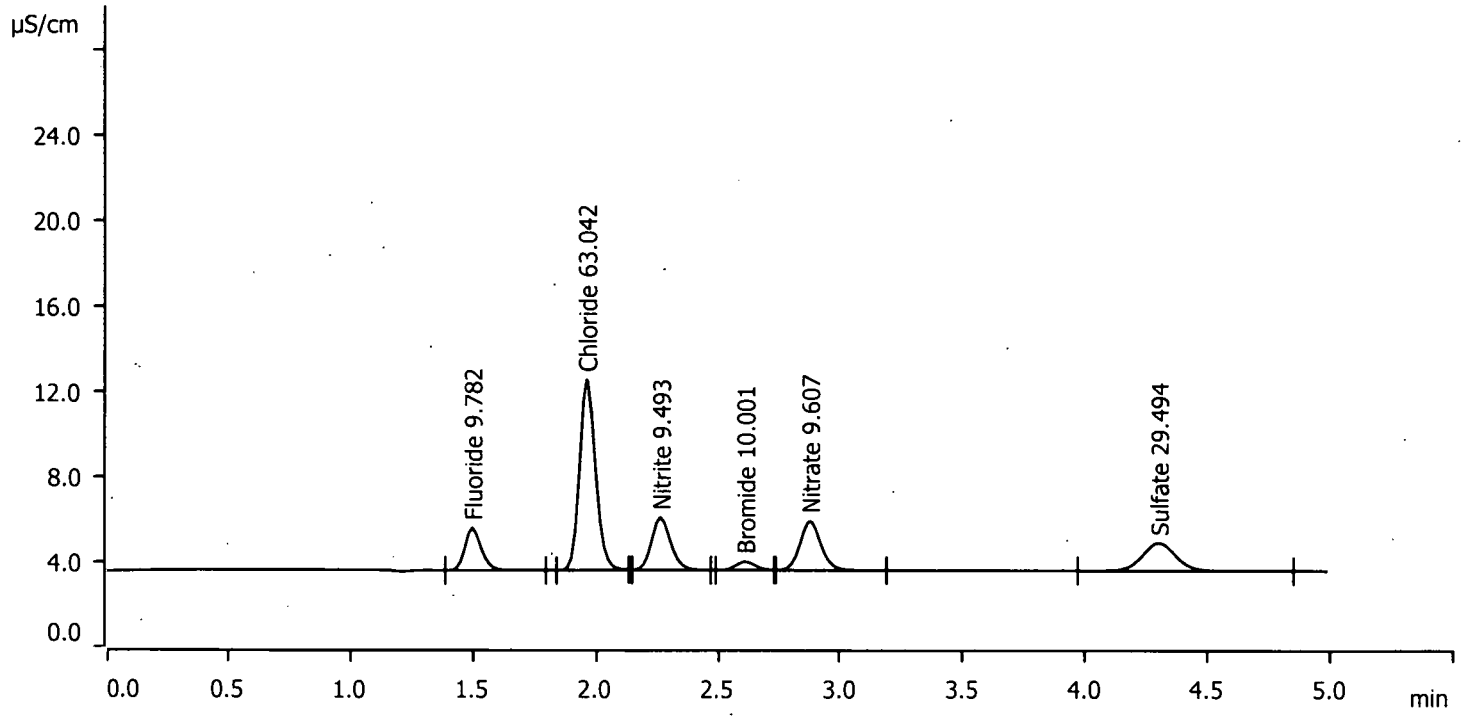
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.50	0.002	0.130	Fluoride	BB
3	1.96	0.469	46.402	Chloride	BB
4	4.29	0.080	11.419	Sulfate	BB

Sample data

Ident	R2405309-013 MS
Sample type	Sample
Determination start	2024-06-14 12:30:06 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86129
Sample Position	41
Comment 1	300.0 CBNS
Comment 2	MW-1B MS

Anions



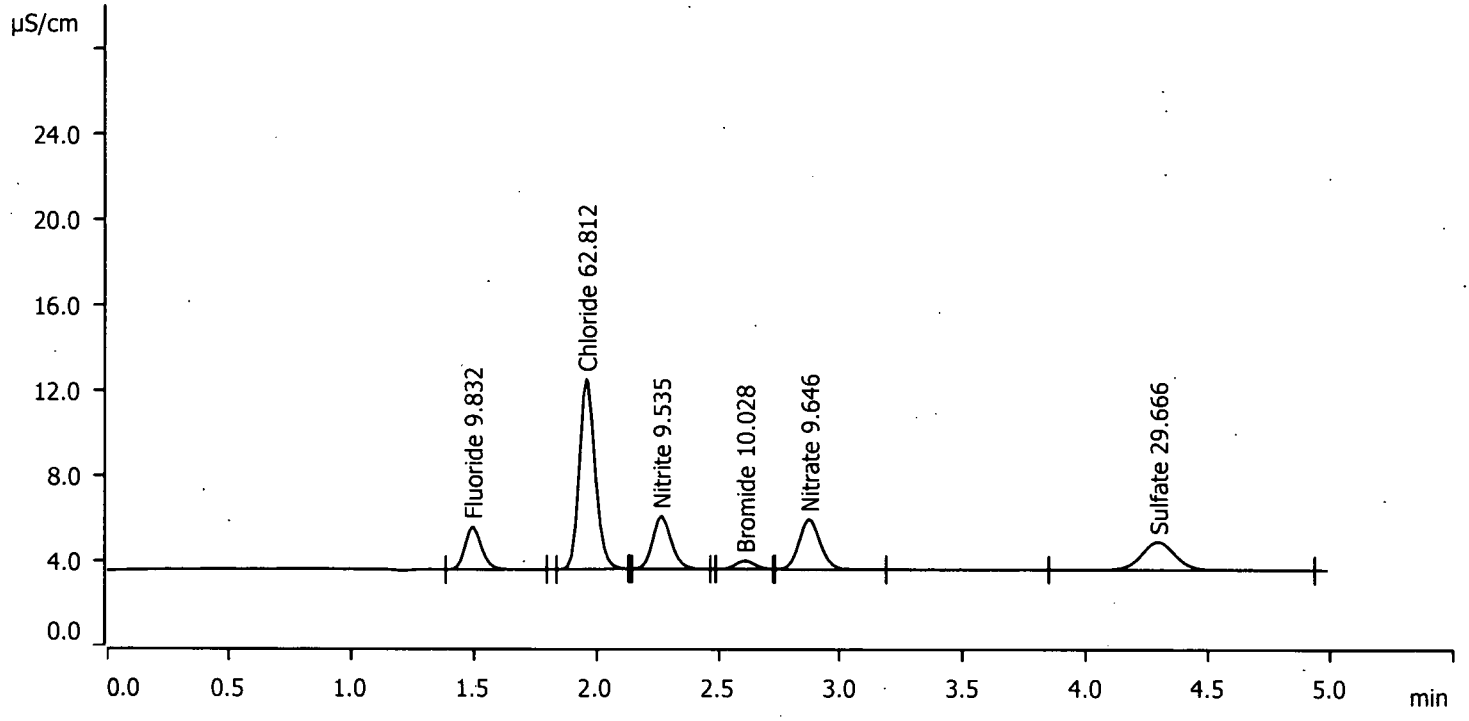
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.156	9.782	Fluoride	BB
2	1.97	0.667	63.042	Chloride	BB
3	2.27	0.216	9.493	Nitrite	BB
4	2.61	0.036	10.001	Bromide	BB
5	2.88	0.229	9.607	Nitrate	BB
6	4.30	0.211	29.494	Sulfate	BB

Sample data

Ident	R2405309-013 MSD
Sample type	Sample
Determination start	2024-06-14 12:36:24 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86130
Sample Position	42
Comment 1	300.0 CBNS
Comment 2	MW-1B MSD

Anions



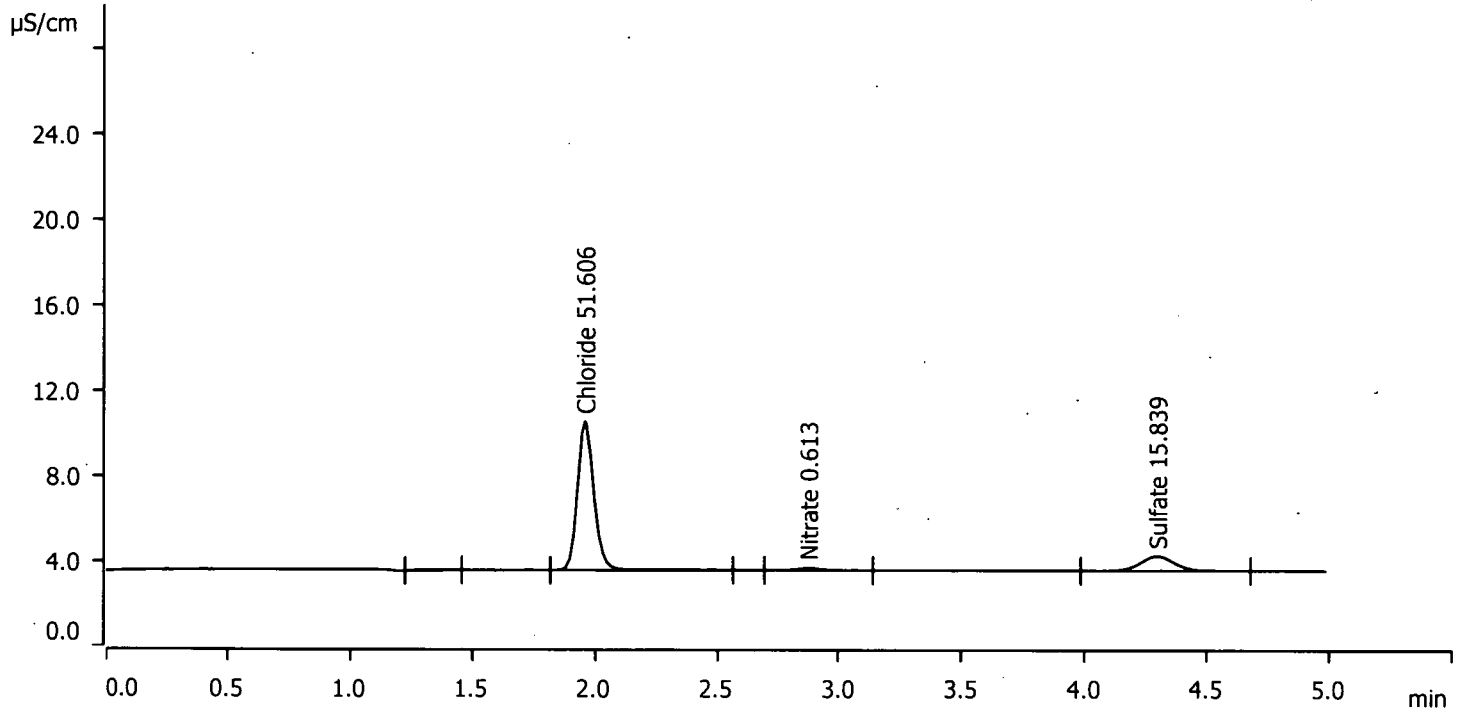
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.156	9.832	Fluoride	BB
2	1.96	0.664	62.812	Chloride	BB
3	2.27	0.217	9.535	Nitrite	BB
4	2.61	0.036	10.028	Bromide	BB
5	2.87	0.230	9.646	Nitrate	BB
6	4.29	0.212	29.666	Sulfate	BB

Sample data

Ident	R2405328-001
Sample type	Sample
Determination start	2024-06-14 12:42:42 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86131
Sample Position	43
Comment 1	300.0 CBNS
Comment 2	MW-1S

Anions



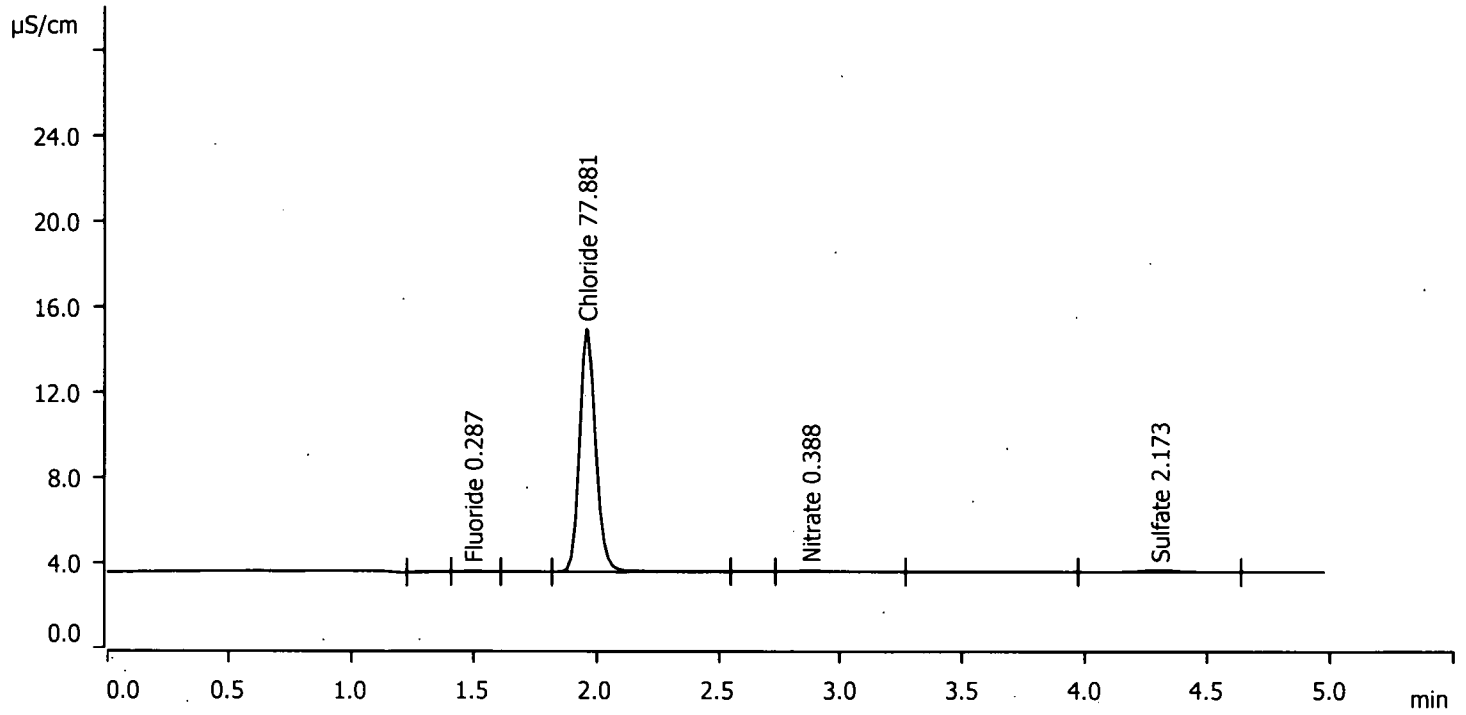
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.530	51.606	Chloride	BB
3	2.87	0.011	0.613	Nitrate	BB
4	4.30	0.111	15.839	Sulfate	BB

Sample data

Ident	R2405328-002
Sample type	Sample
Determination start	2024-06-14 12:48:59 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86132
Sample Position	44
Comment 1	300.0 CBNS
Comment 2	MW-2S

Anions



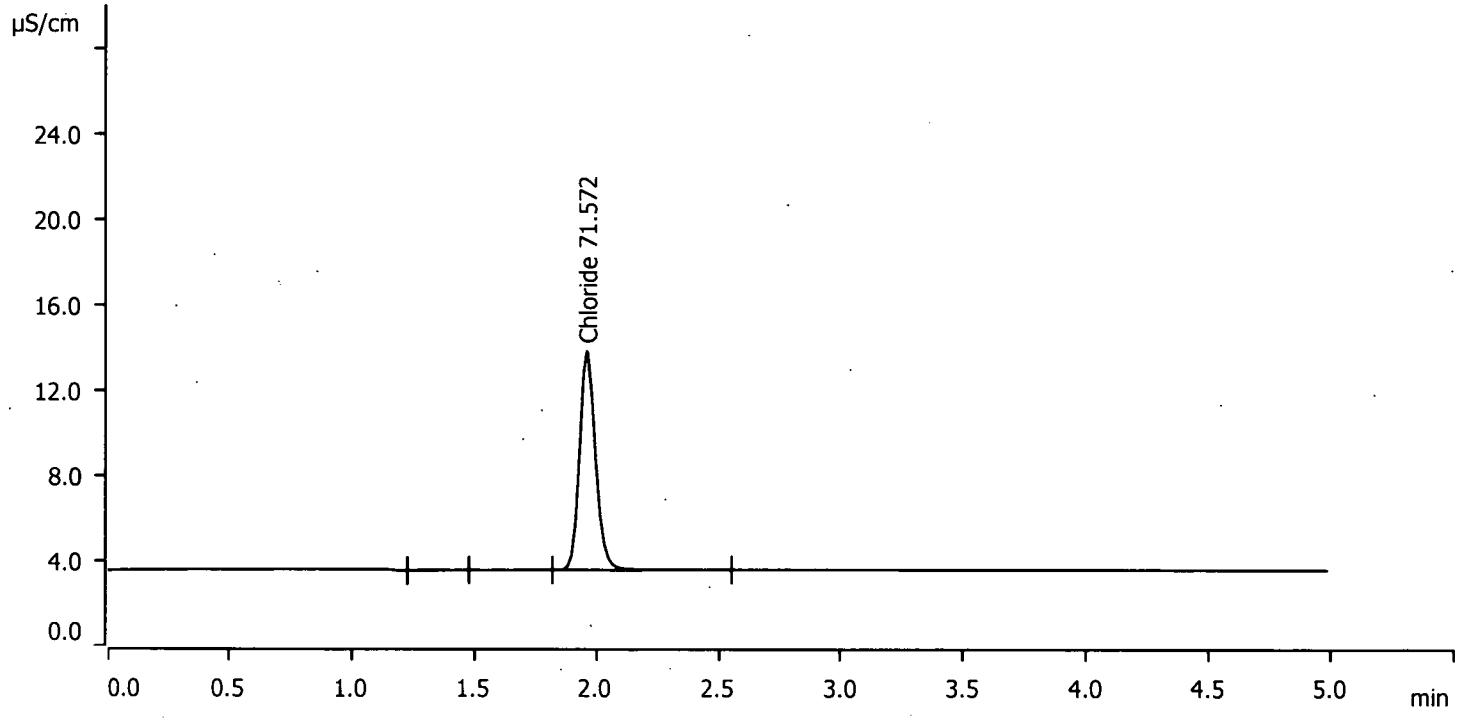
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.50	0.004	0.287	Fluoride	BB
3	1.97	0.855	77.881	Chloride	BB
4	2.88	0.006	0.388	Nitrate	BB
5	4.30	0.015	2.173	Sulfate	BB

Sample data

Ident	R2405328-003
Sample type	Sample
Determination start	2024-06-14 12:55:16 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86133
Sample Position	45
Comment 1	300.0 CBNS
Comment 2	MW-3S

Anions



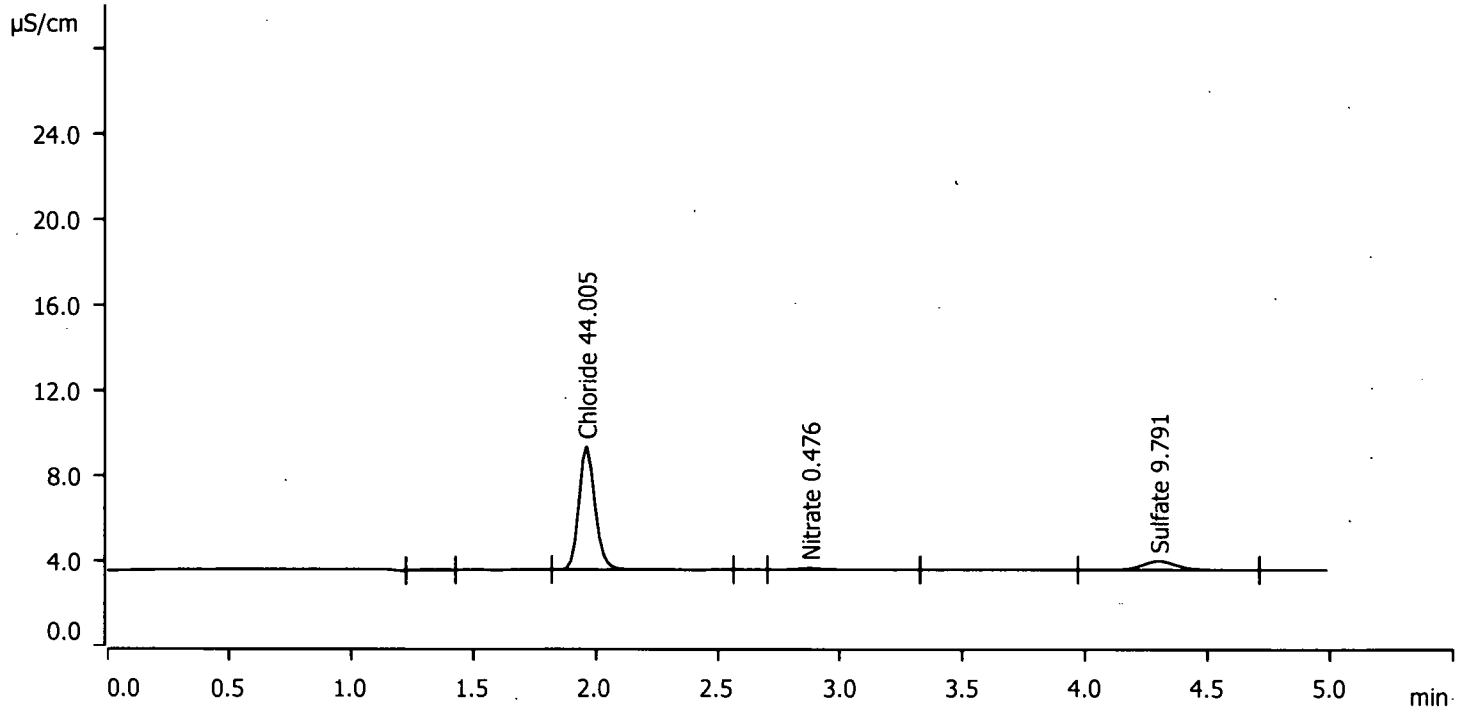
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.97	0.773	71.572	Chloride	BB

Sample data

Ident	R2405328-004
Sample type	Sample
Determination start	2024-06-14 13:01:36 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86134
Sample Position	46
Comment 1	300.0 CBNS
Comment 2	SW-1

Anions



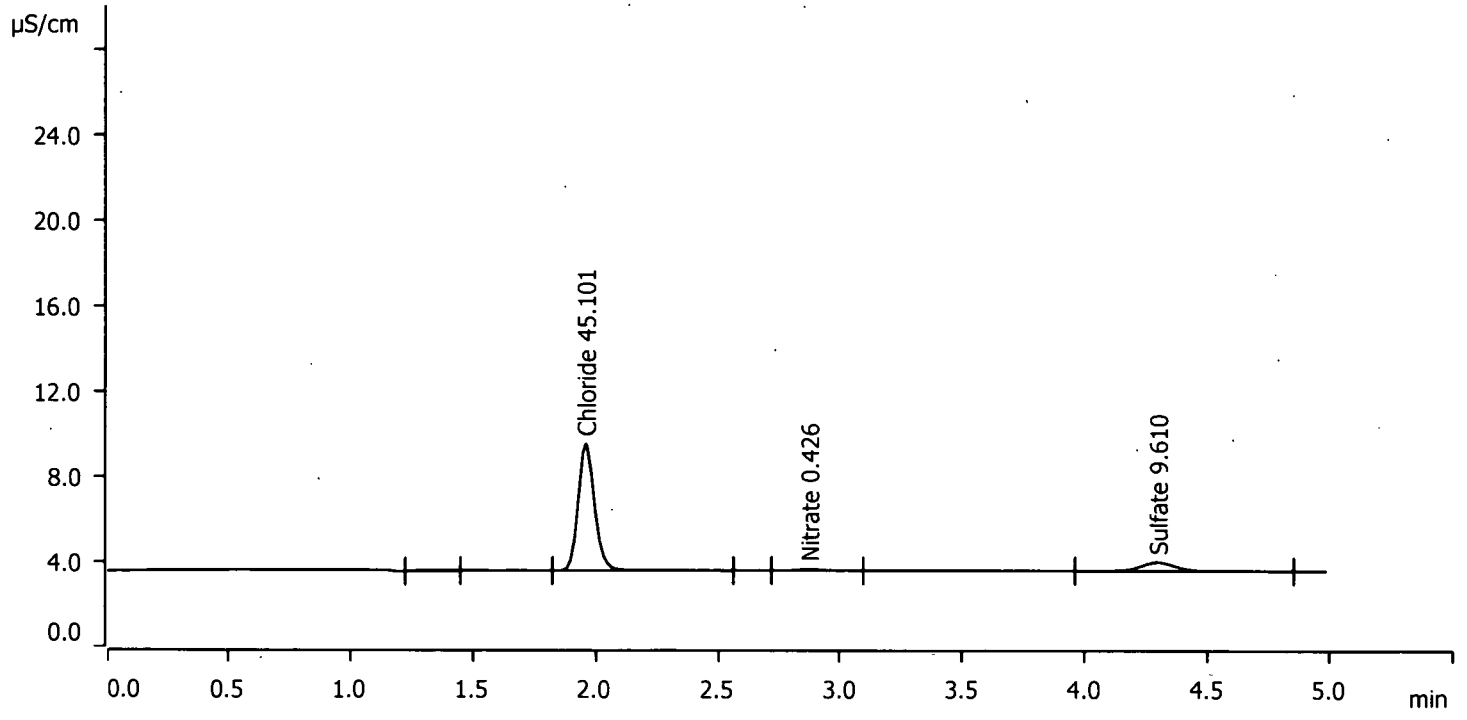
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.97	0.442	44.005	Chloride	BB
3	2.88	0.008	0.476	Nitrate	BBI
4	4.30	0.068	9.791	Sulfate	BB

Sample data

Ident	R2405328-005
Sample type	Sample
Determination start	2024-06-14 13:07:54 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86135
Sample Position	47
Comment 1	300.0 CBNS
Comment 2	SW-2

Anions



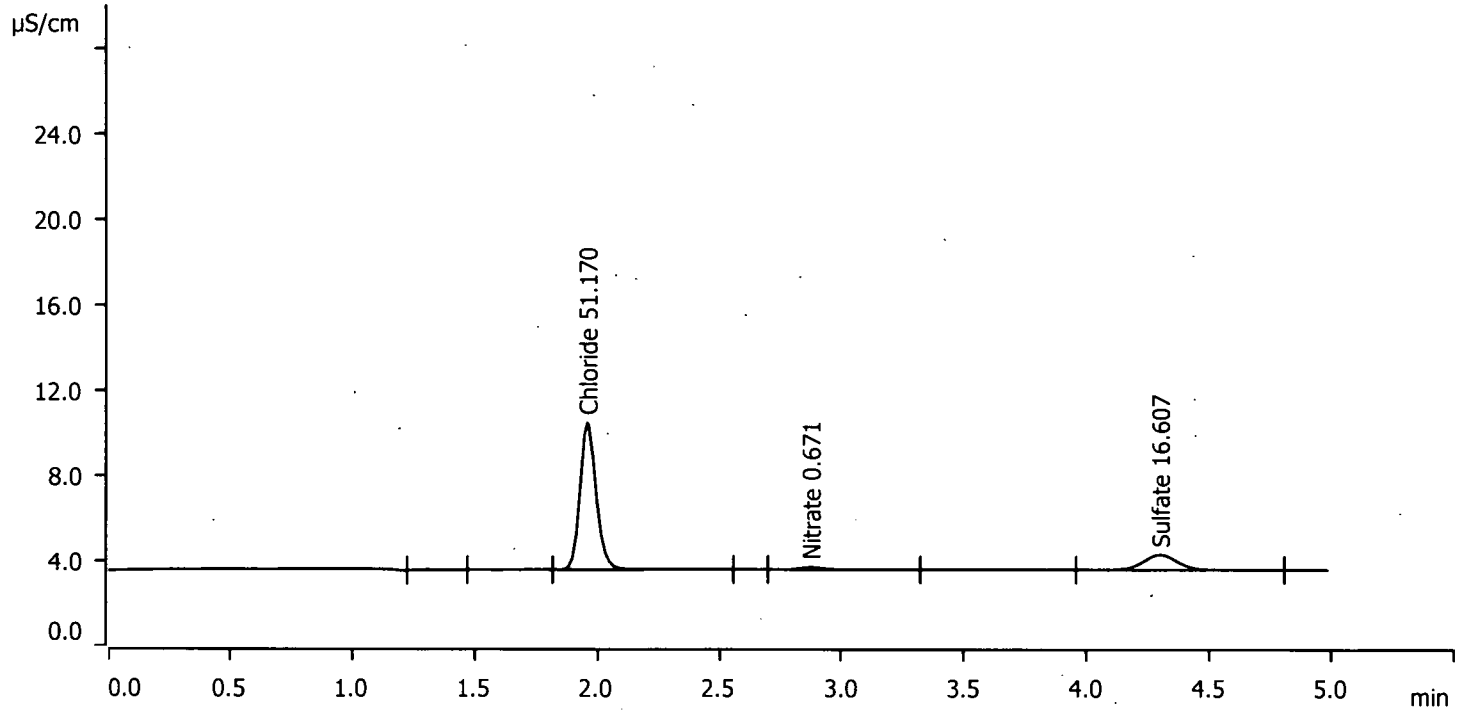
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.455	45.101	Chloride	BB
3	2.87	0.006	0.426	Nitrate	BB
4	4.30	0.067	9.610	Sulfate	BB

Sample data

Ident	R2405328-006
Sample type	Sample
Determination start	2024-06-14 13:14:11 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86136
Sample Position	48
Comment 1	300.0 CBNS
Comment 2	DUPE-X BARTON

Anions



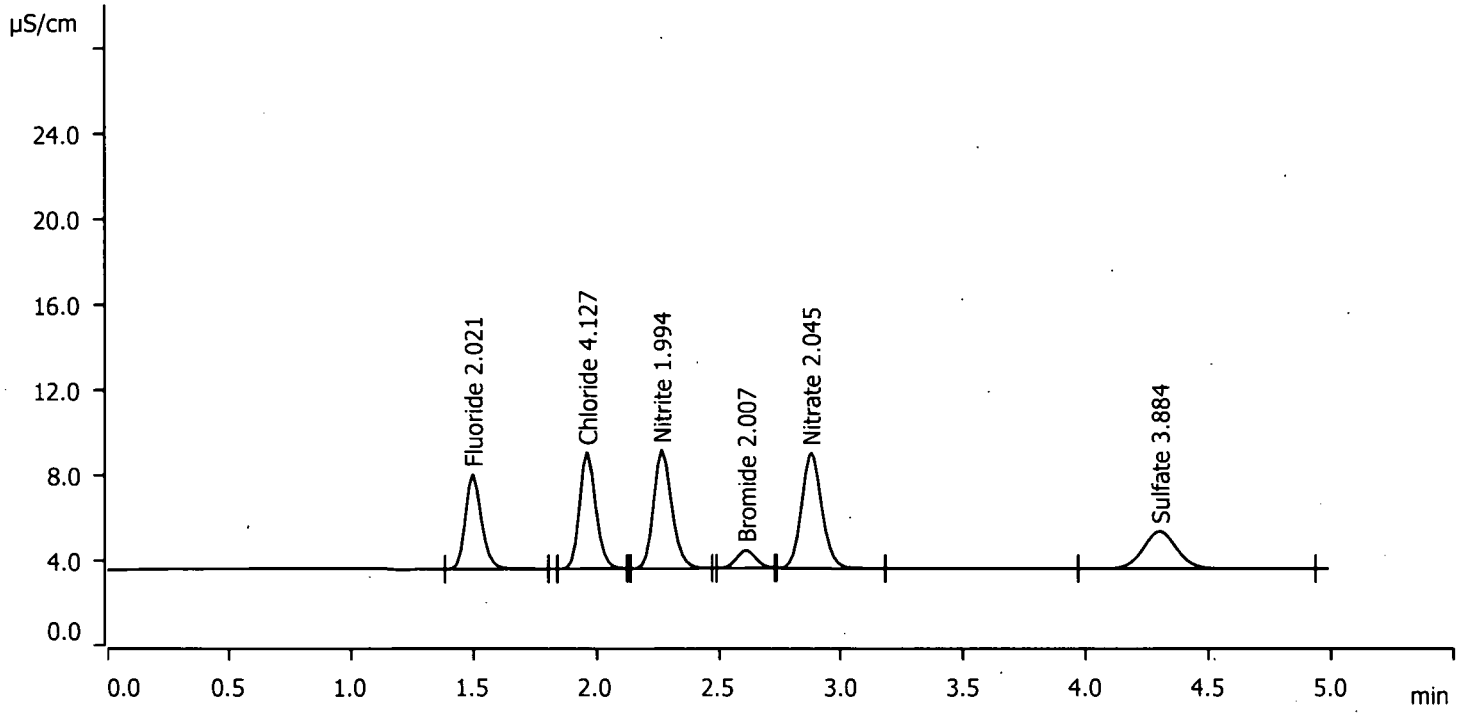
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.524	51.170	Chloride	BB
3	2.87	0.012	0.671	Nitrate	BBI
4	4.30	0.117	16.607	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-06-14 13:20:28 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86137
Sample Position	49
Comment 1	300.0/9056A
Comment 2	

Anions



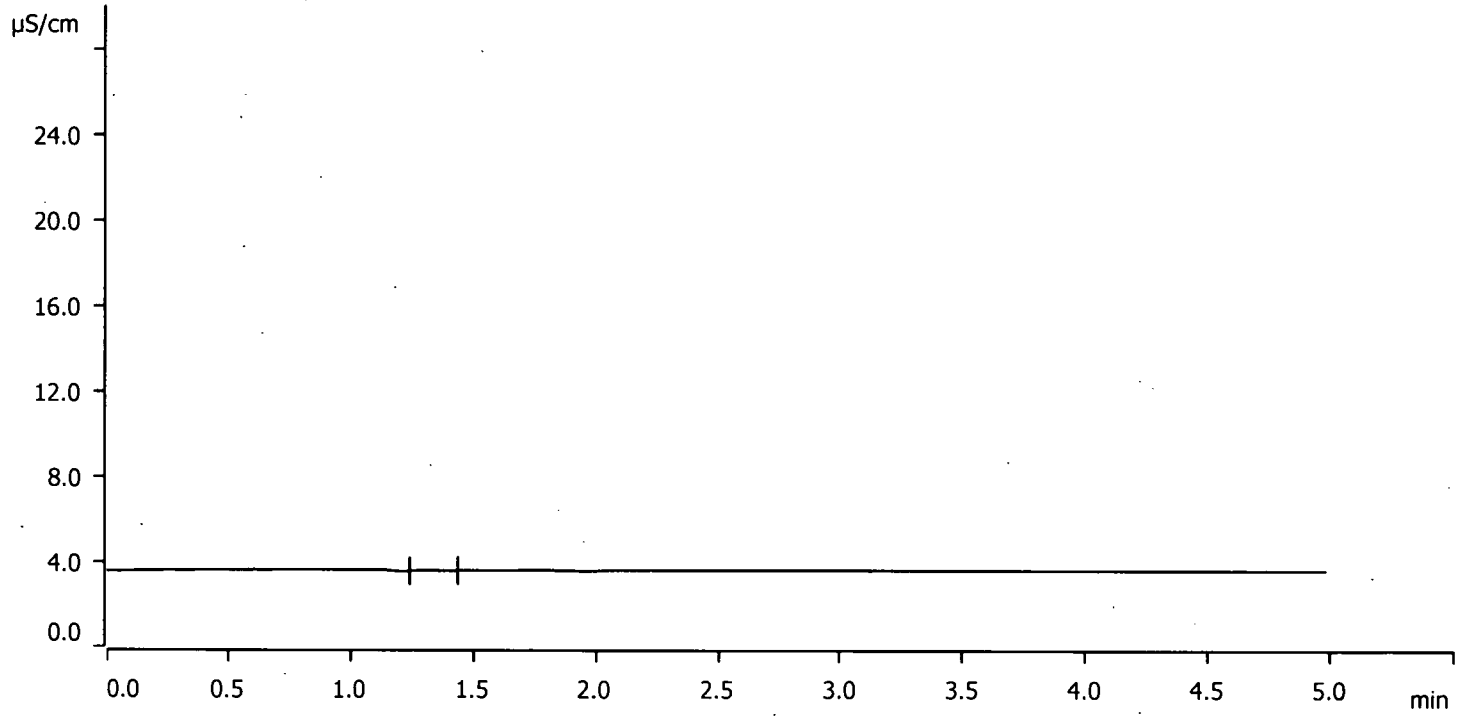
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.339	2.021	Fluoride	BB
2	1.97	0.411	4.127	Chloride	BB
3	2.27	0.478	1.994	Nitrite	BB
4	2.61	0.074	2.007	Bromide	BB
5	2.88	0.521	2.045	Nitrate	BB
6	4.30	0.281	3.884	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-06-14 13:26:52 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86138
Sample Position	50
Comment 1	300.0/9056A
Comment 2	

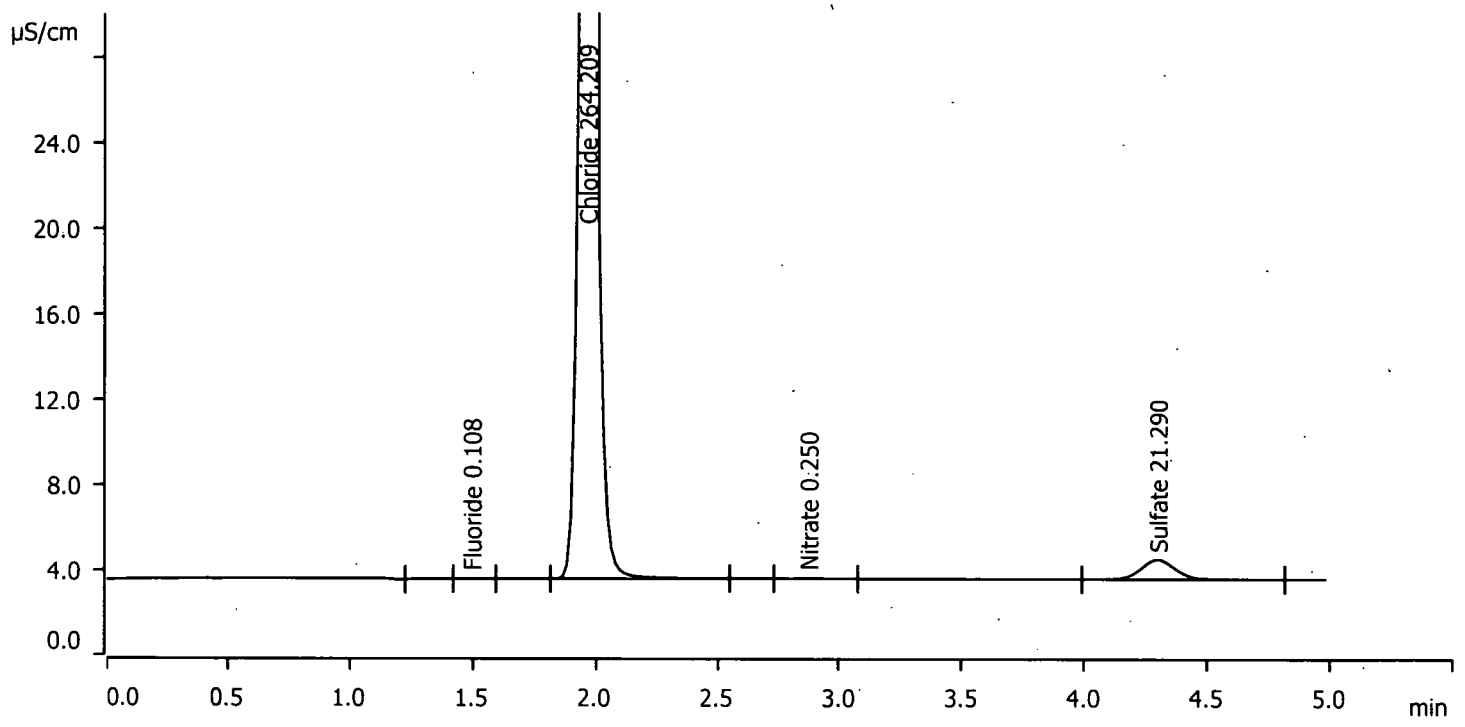
Anions



Sample data

Ident	R2405327-001
Sample type	Sample
Determination start	2024-06-14 13:33:08 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86139
Sample Position	51
Comment 1	9056A BNS
Comment 2	W-1A SULLIVAN C@50

Anions



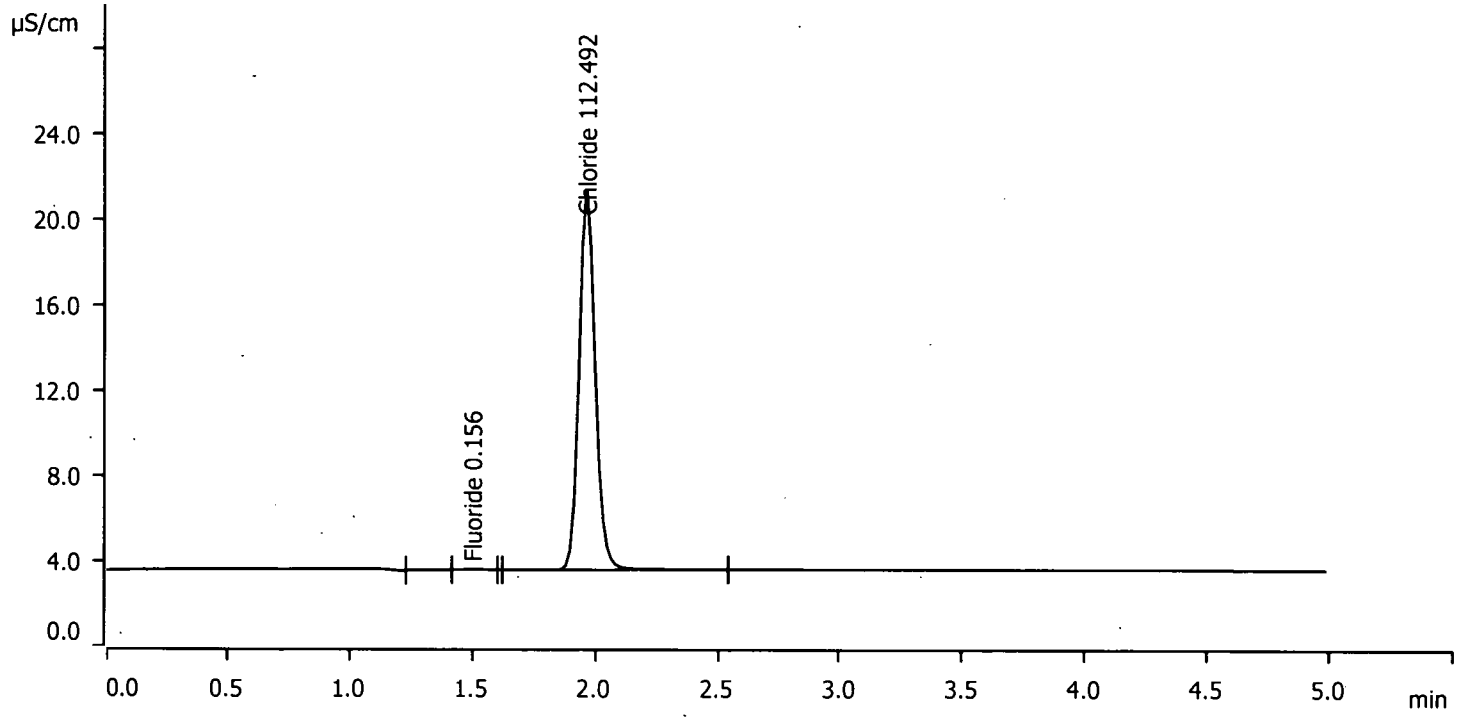
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.50	0.001	0.108	Fluoride	BB
3	1.97	4.197	264.209	Chloride	BB
4	2.87	0.002	0.250	Nitrate	BB
5	4.30	0.150	21.290	Sulfate	BB

Sample data

Ident	R2405327-002
Sample type	Sample
Determination start	2024-06-14 13:39:32 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86140
Sample Position	52
Comment 1	9056A BNS
Comment 2	MW-112 C@30

Anions



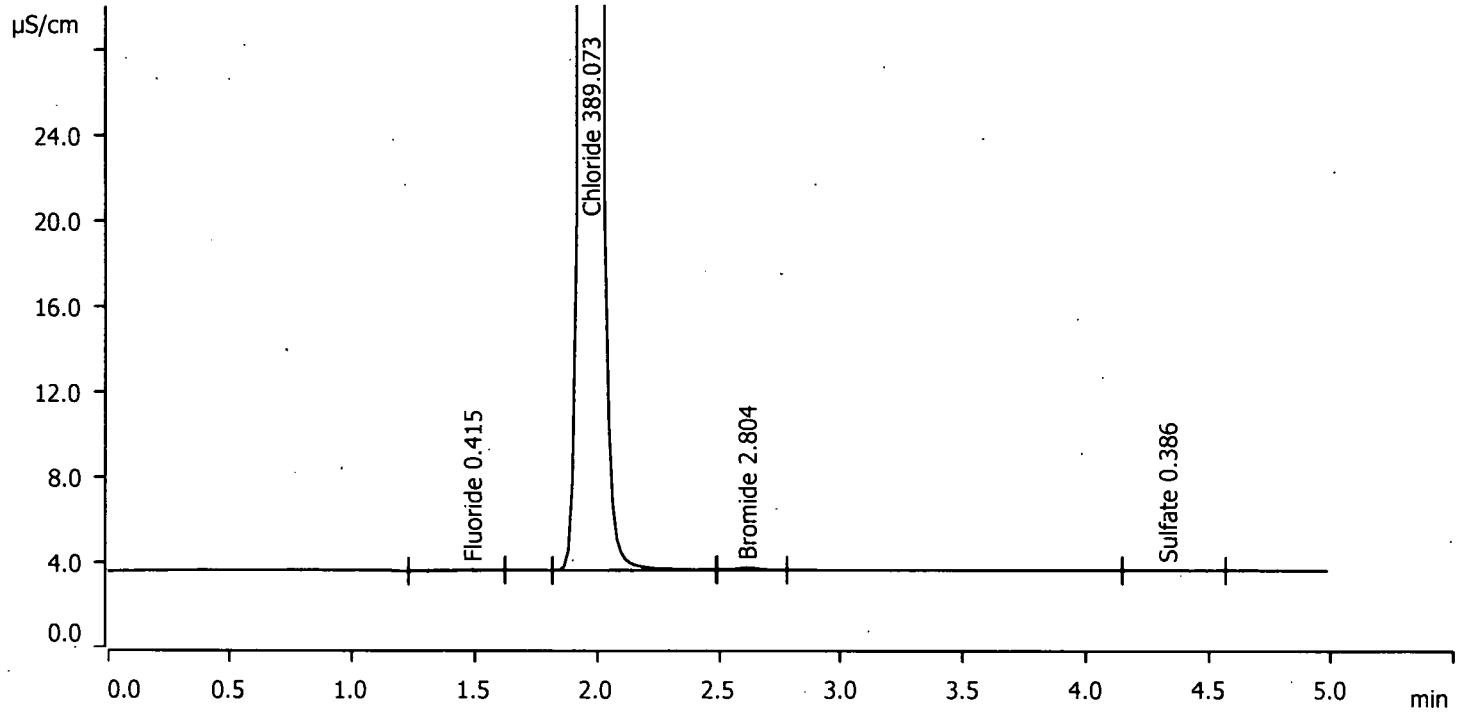
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.50	0.002	0.156	Fluoride	BB
3	1.97	1.338	112.492	Chloride	BB

Sample data

Ident	R2405327-003
Sample type	Sample
Determination start	2024-06-14 13:45:48 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86141
Sample Position	53
Comment 1	9056A BNS
Comment 2	MW-105 C@100

Anions



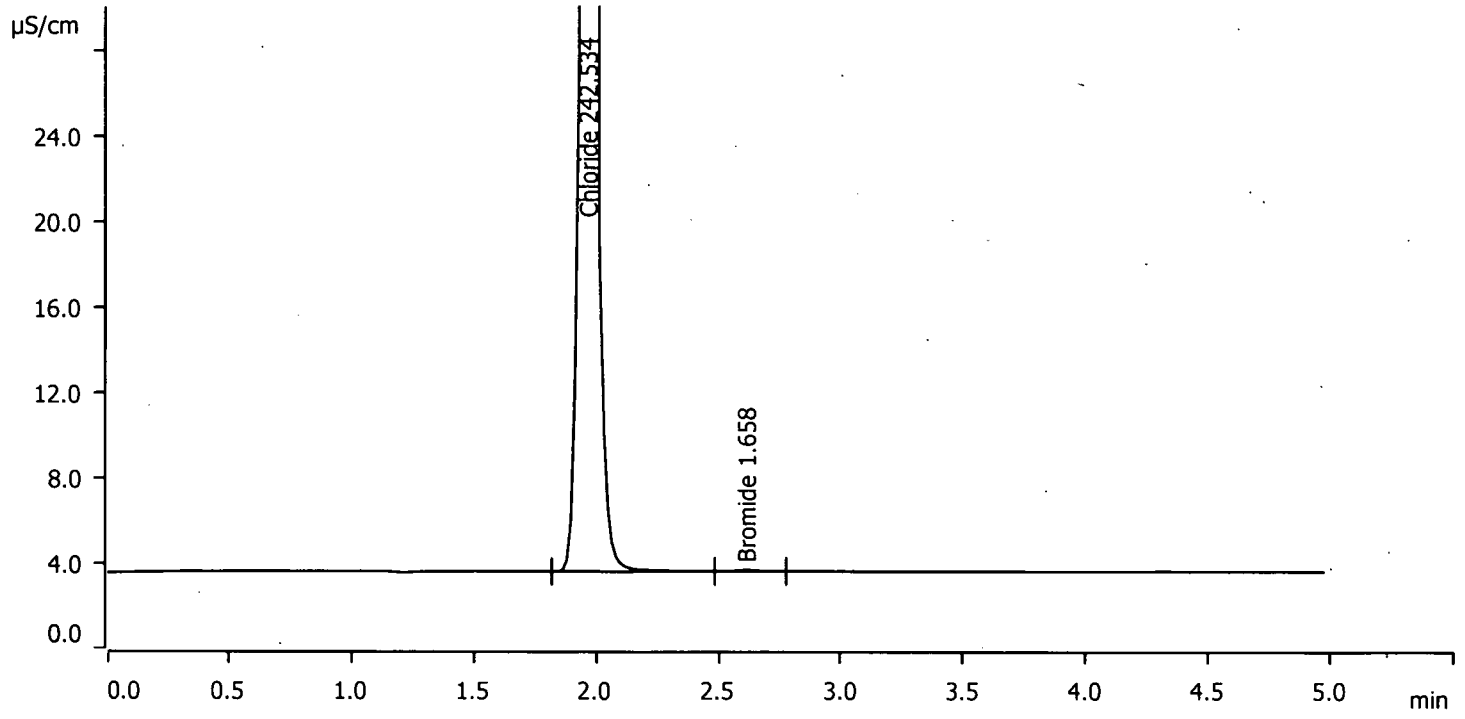
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.51	0.006	0.415	Fluoride	BB
2	1.98	7.452	389.073	Chloride	BB
3	2.61	0.010	2.804	Bromide	BB
4	4.33	0.003	0.386	Sulfate	BB

Sample data

Ident	R2405327-004
Sample type	Sample
Determination start	2024-06-14 13:52:06 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86142
Sample Position	54
Comment 1	9056A BNS
Comment 2	GW-2S C@50

Anions



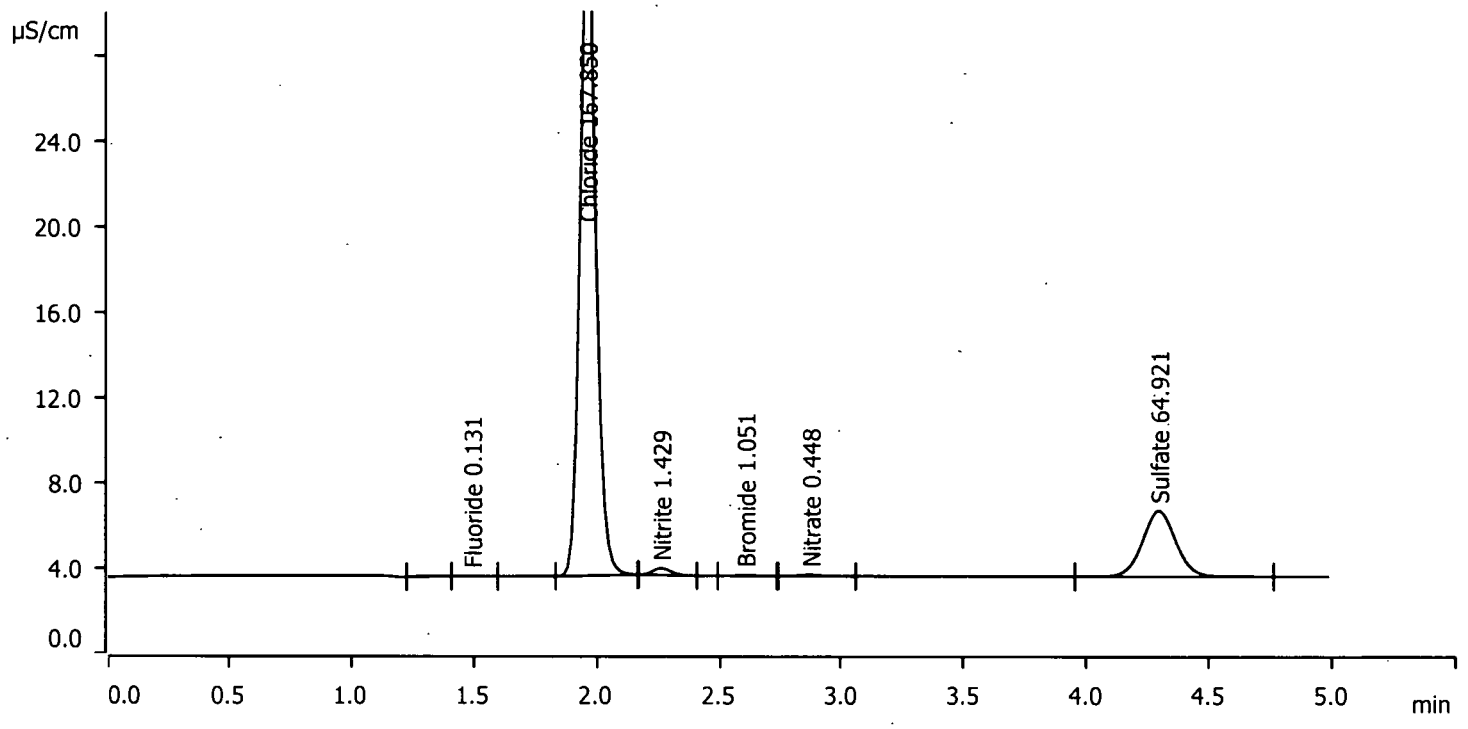
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.97	3.715	242.534	Chloride	BB
2	2.61	0.006	1.658	Bromide	BB

Sample data

Ident	R2405327-005
Sample type	Sample
Determination start	2024-06-14 13:58:22 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86143
Sample Position	55
Comment 1	9056A BNS
Comment 2	GW-2D C@40

Anions



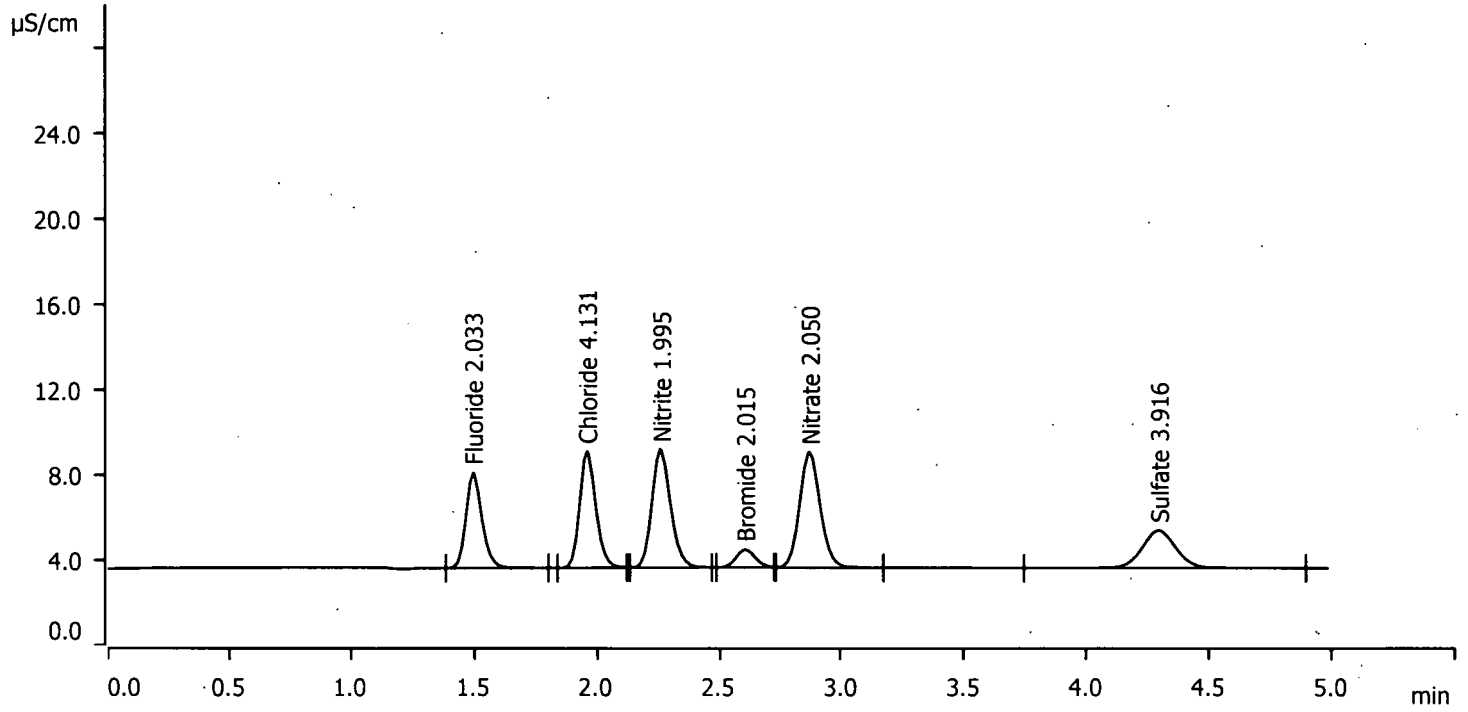
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.50	0.002	0.131	Fluoride	BB
3	1.97	2.242	167.850	Chloride	BB
4	2.26	0.028	1.429	Nitrite	BB
5	2.61	0.004	1.051	Bromide	BB
6	2.87	0.007	0.448	Nitrate	BB
7	4.30	0.486	64.921	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-06-14 14:04:40 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86144
Sample Position	56
Comment 1	300.0/9056A
Comment 2	

Anions



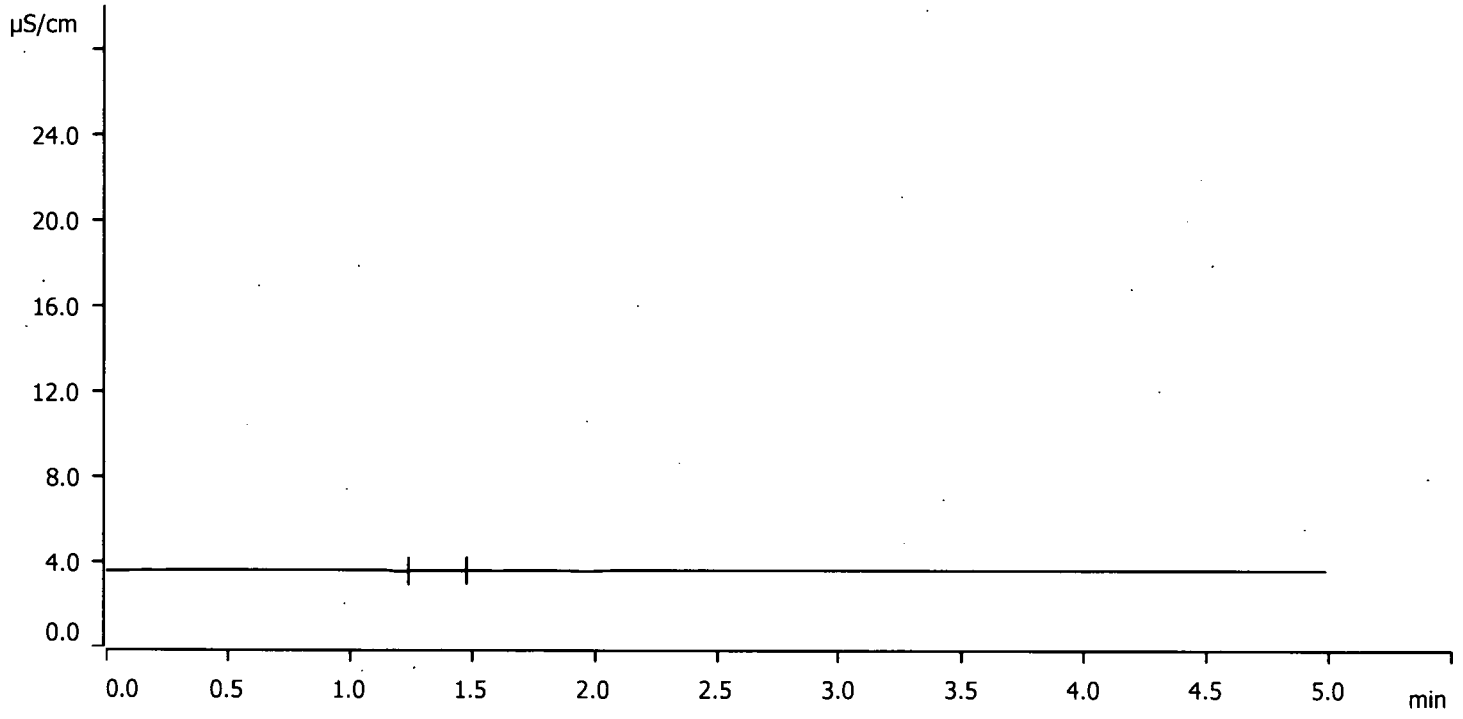
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.342	2.033	Fluoride	BB
2	1.96	0.412	4.131	Chloride	BB
3	2.27	0.479	1.995	Nitrite	BB
4	2.61	0.075	2.015	Bromide	BB
5	2.87	0.522	2.050	Nitrate	BB
6	4.30	0.283	3.916	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-06-14 14:10:57 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86145
Sample Position	57
Comment 1	300.0/9056A
Comment 2	

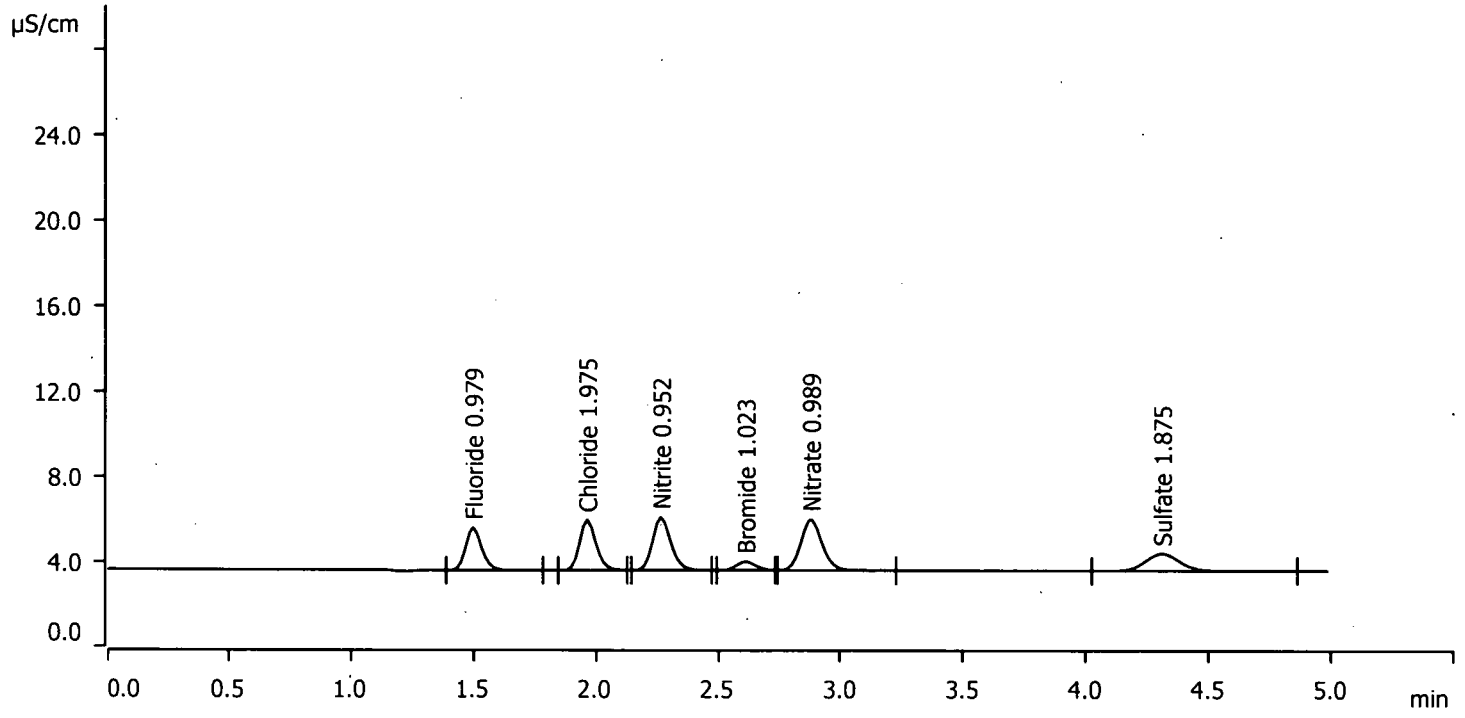
Anions



Sample data

Ident	LCS
Sample type	Check standard 2
Determination start	2024-06-14 19:04:34 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86146
Sample Position	1
Comment 1	300.0/9056A
Comment 2	

Anions



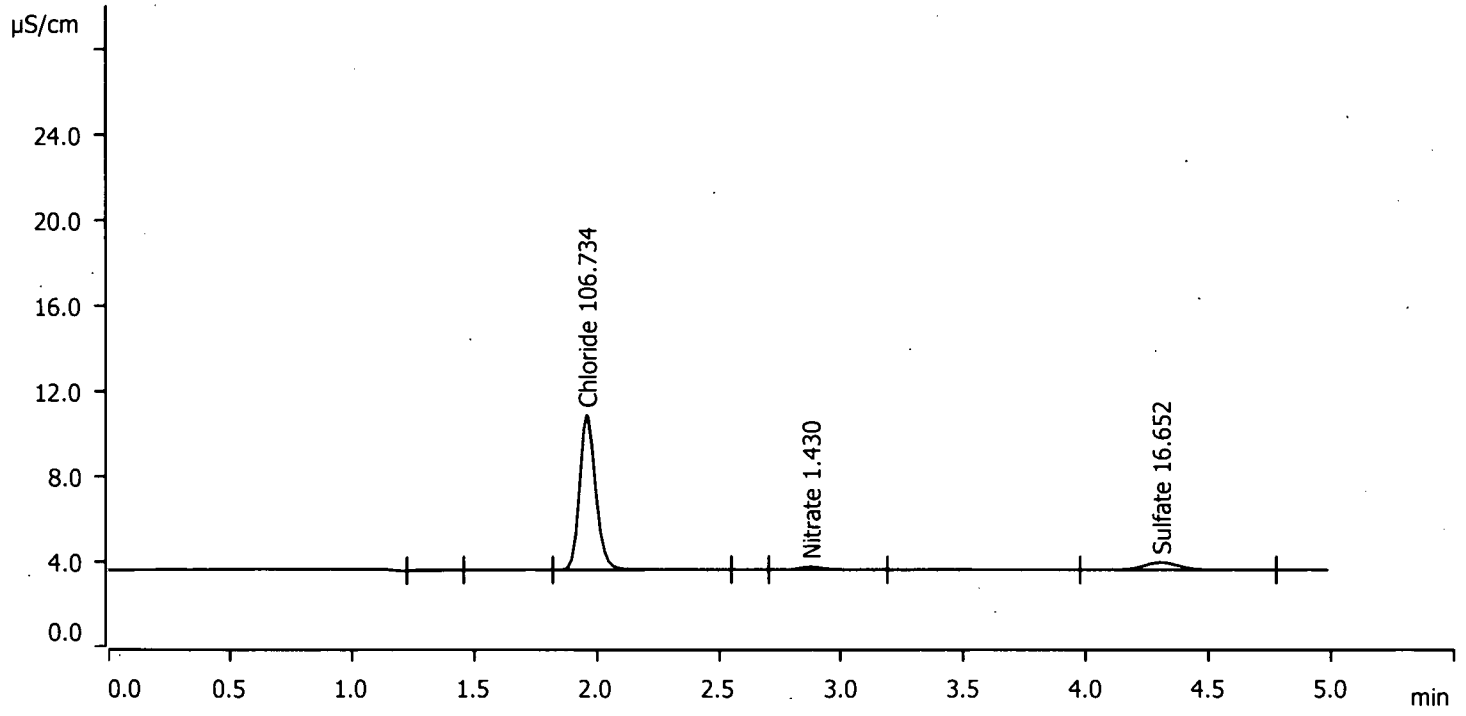
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.156	0.979	Fluoride	BB
2	1.97	0.184	1.975	Chloride	BB
3	2.27	0.217	0.952	Nitrite	BB
4	2.61	0.037	1.023	Bromide	BB
5	2.88	0.236	0.989	Nitrate	BB
6	4.31	0.132	1.875	Sulfate	BB

Sample data

Ident	R2404888-003
Sample type	Sample
Determination start	2024-06-14 19:10:56 UTC-4
Method	10-051424FAST
Dilution	20
Counter	86147
Sample Position	2
Comment 1	300.0 C
Comment 2	

Anions



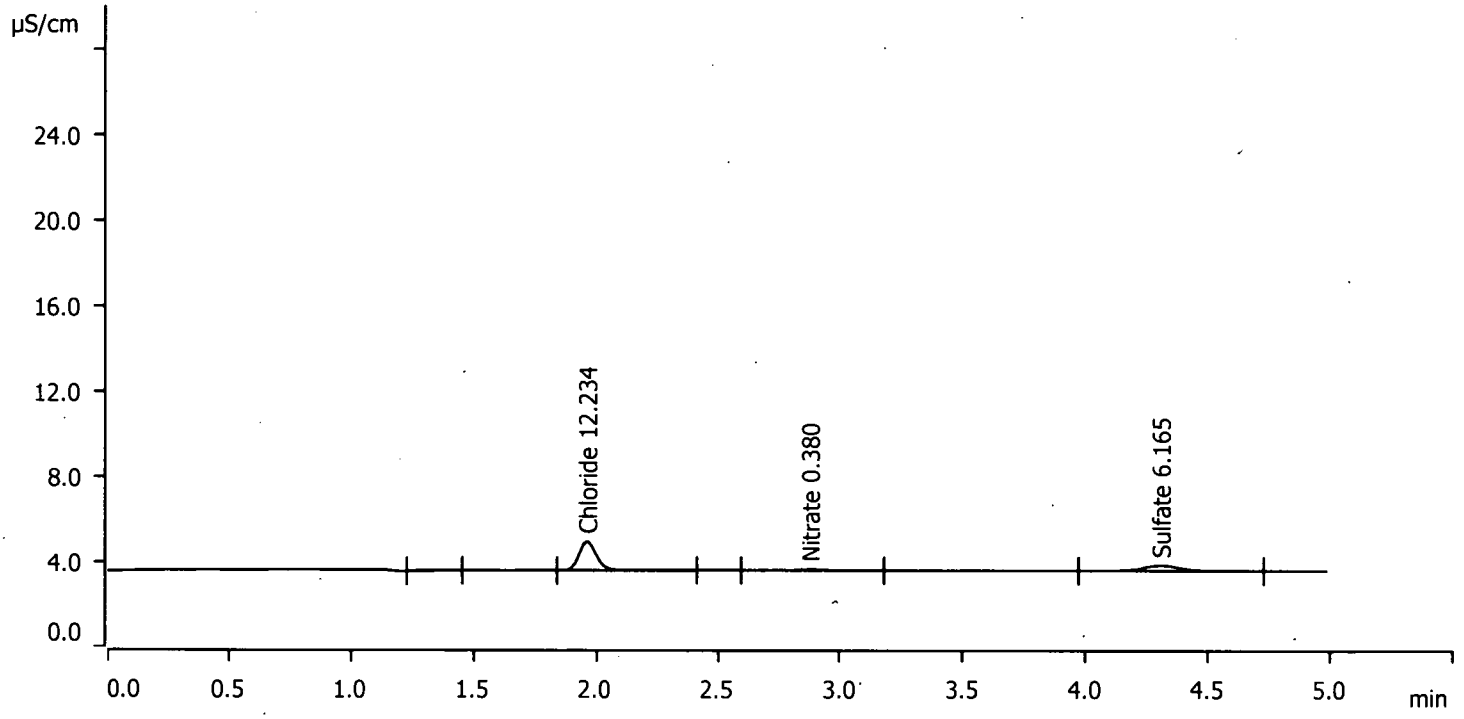
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.550	106.734	Chloride	BB
3	2.88	0.013	1.430	Nitrate	BB
4	4.31	0.058	16.652	Sulfate	BB

Sample data

Ident	R2404888-007
Sample type	Sample
Determination start	2024-06-14 19:17:13 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86148
Sample Position	3
Comment 1	300.0 C
Comment 2	

Anions



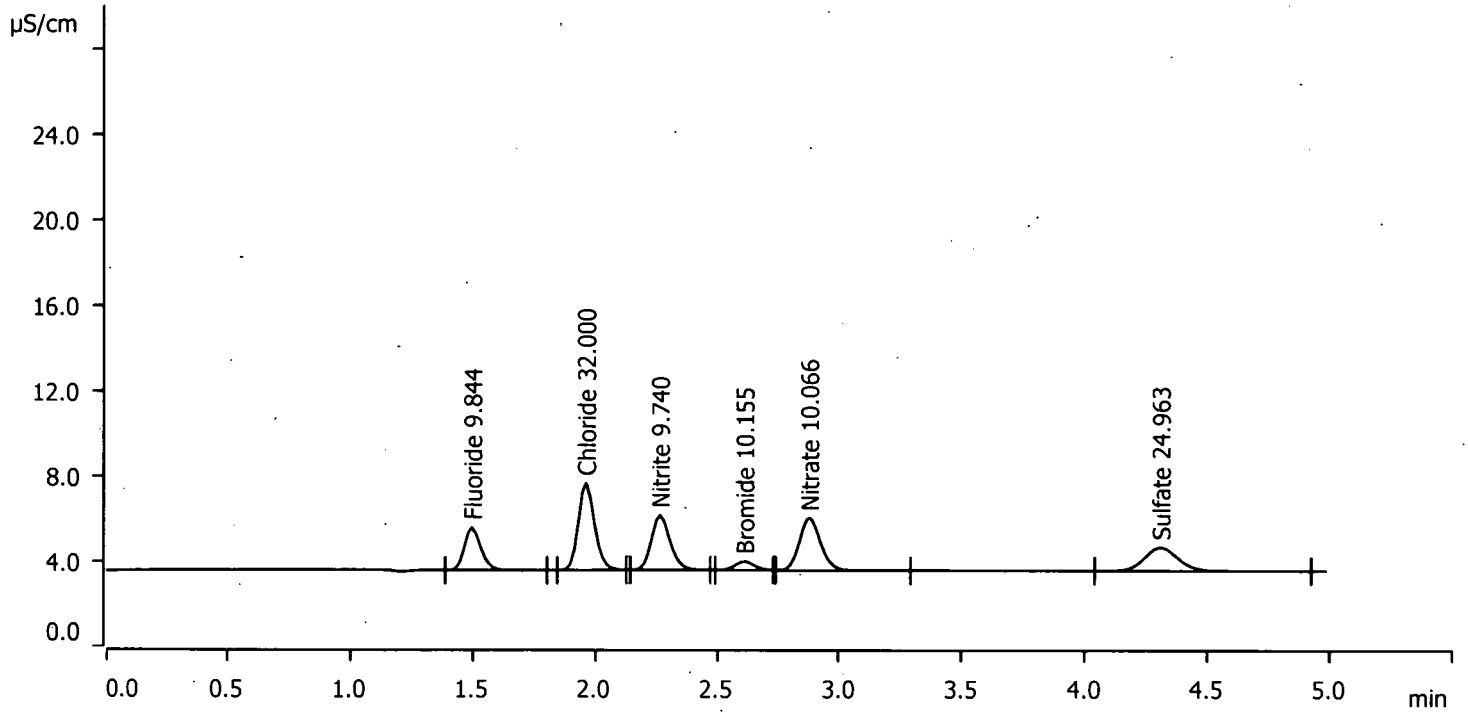
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.97	0.110	12.234	Chloride	BB
3	2.88	0.005	0.380	Nitrate	BB
4	4.31	0.043	6.165	Sulfate	BB

Sample data

Ident	R2404888-007 MS
Sample type	Sample
Determination start	2024-06-14 19:23:31 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86149
Sample Position	4
Comment 1	300.0 C
Comment 2	

Anions



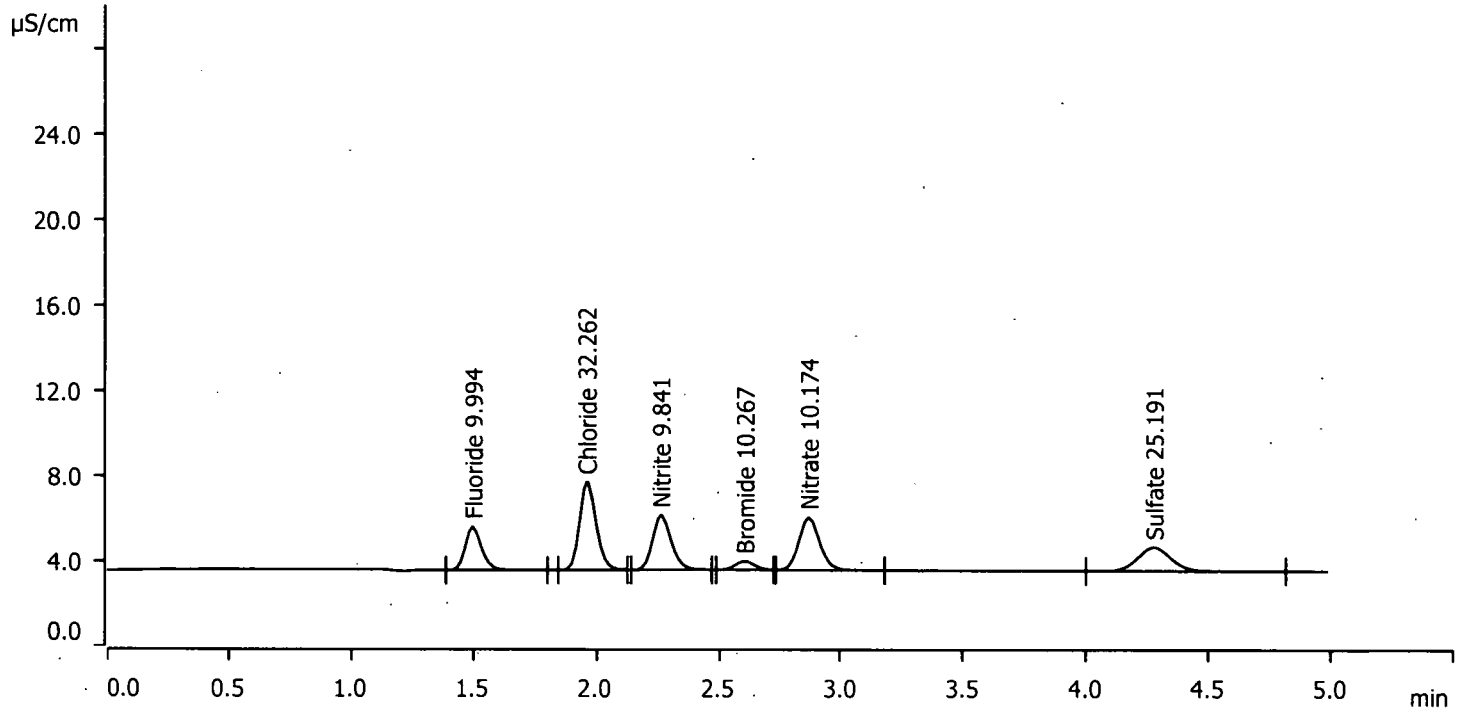
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.157	9.844	Fluoride	BB
2	1.97	0.310	32.000	Chloride	BB
3	2.27	0.222	9.740	Nitrite	BB
4	2.61	0.036	10.155	Bromide	BB
5	2.88	0.241	10.066	Nitrate	BB
6	4.31	0.177	24.963	Sulfate	BB

Sample data

Ident	R2404888-007 MSD
Sample type	Sample
Determination start	2024-06-14 19:29:48 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86150
Sample Position	5
Comment 1	300.0 C
Comment 2	

Anions



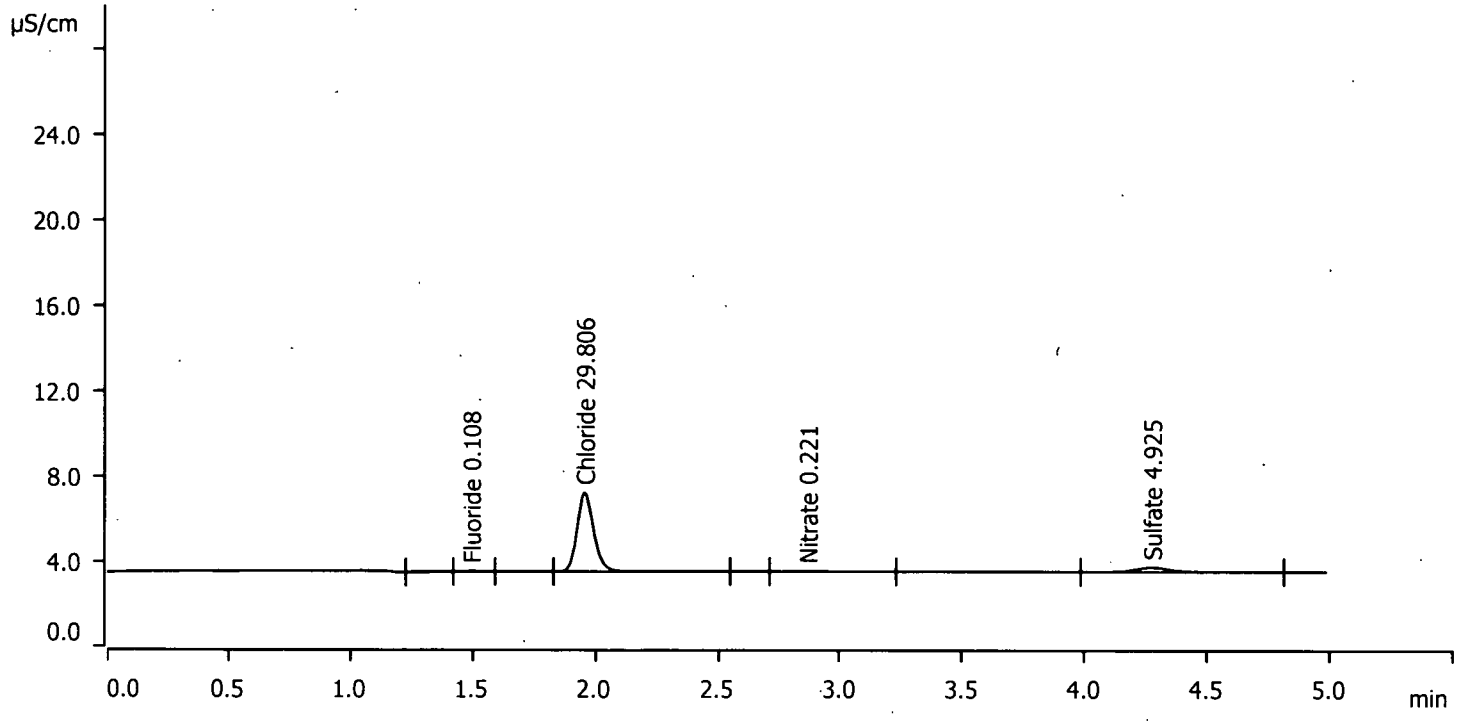
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.159	9.994	Fluoride	BB
2	1.96	0.313	32.262	Chloride	BB
3	2.26	0.224	9.841	Nitrite	BB
4	2.61	0.037	10.267	Bromide	BB
5	2.87	0.243	10.174	Nitrate	BB
6	4.28	0.179	25.191	Sulfate	BB

Sample data

Ident	R2404888-009
Sample type	Sample
Determination start	2024-06-14 19:36:05 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86151
Sample Position	6
Comment 1	300.0 C
Comment 2	

Anions



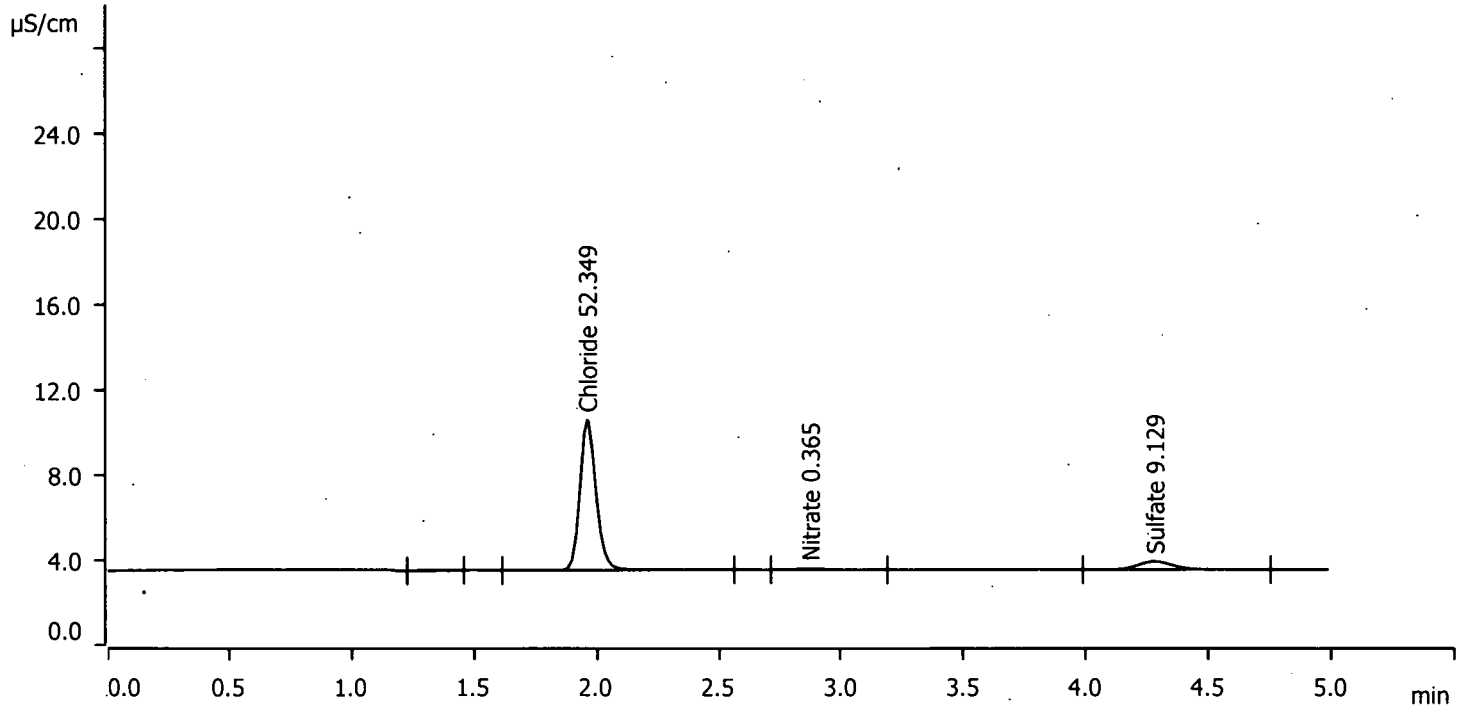
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.50	0.001	0.108	Fluoride	BB
3	1.96	0.287	29.806	Chloride	BB
4	2.87	0.002	0.221	Nitrate	BB
5	4.28	0.034	4.925	Sulfate	BB

Sample data

Ident	R2404888-011
Sample type	Sample
Determination start	2024-06-14 19:42:21 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86152
Sample Position	7
Comment 1	300.0 C
Comment 2	

Anions



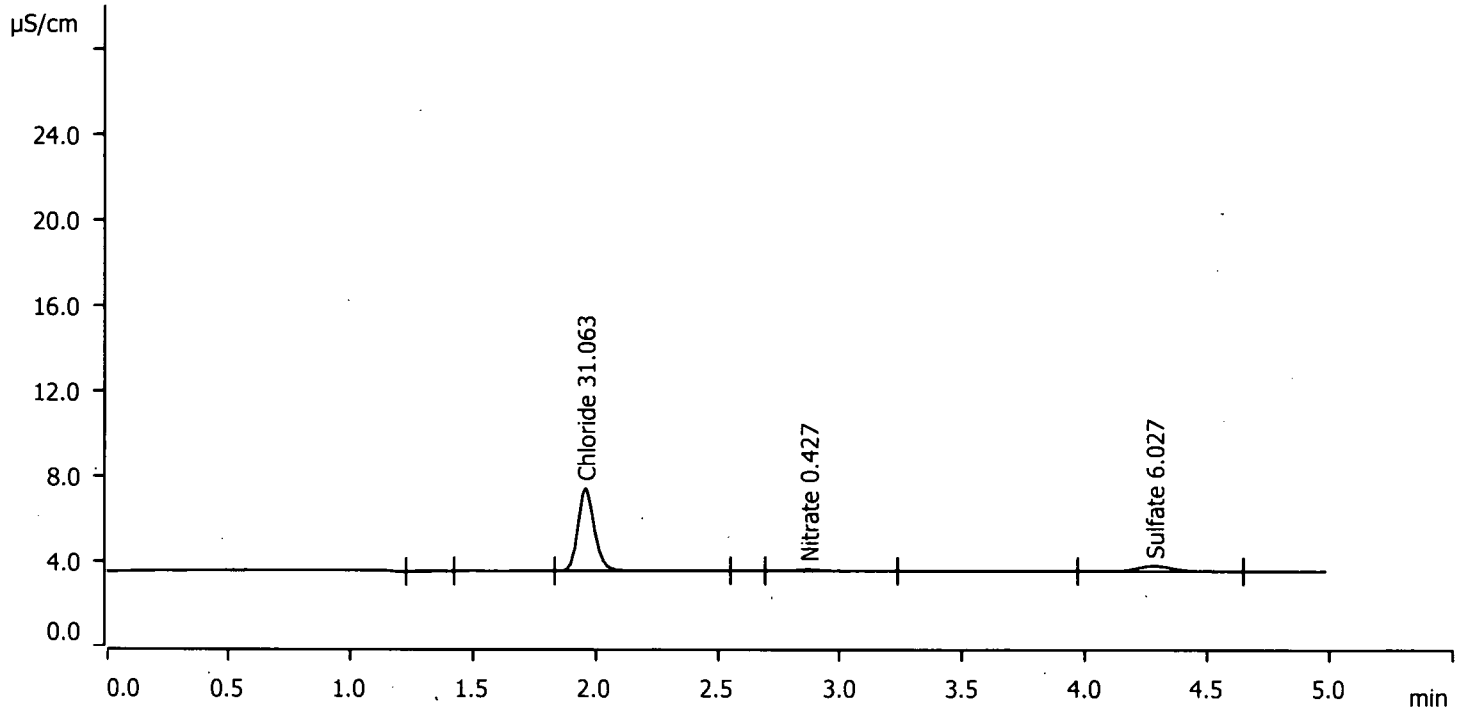
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.538	52.349	Chloride	BB
3	2.87	0.005	0.365	Nitrate	BB
4	4.28	0.064	9.129	Sulfate	BB

Sample data

Ident	R2404888-013
Sample type	Sample
Determination start	2024-06-14 19:48:38 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86153
Sample Position	8
Comment 1	300.0 C
Comment 2	

Anions



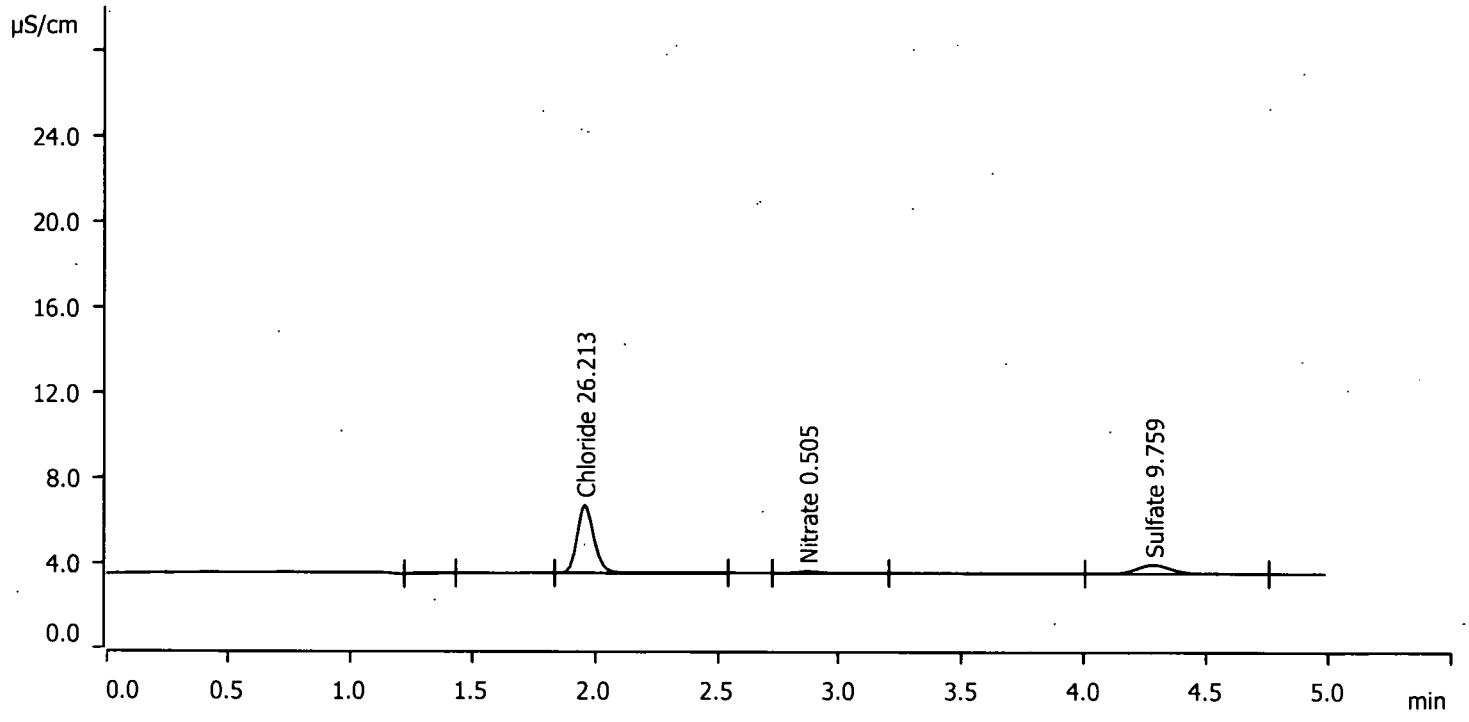
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.300	31.063	Chloride	BB
3	2.87	0.006	0.427	Nitrate	BB
4	4.28	0.042	6.027	Sulfate	BB

Sample data

Ident	R2404888-015
Sample type	Sample
Determination start	2024-06-14 19:54:54 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86154
Sample Position	9
Comment 1	300.0 C
Comment 2	

Anions



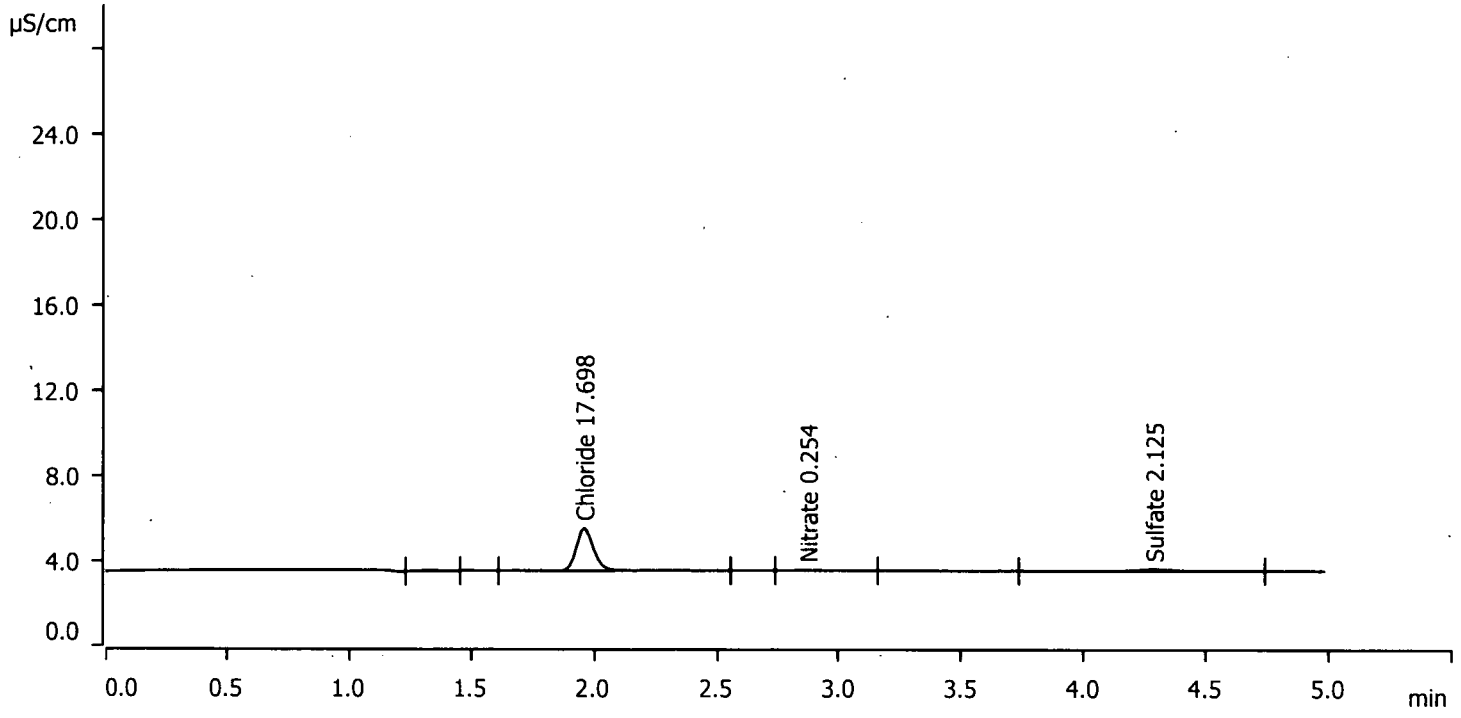
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.250	26.213	Chloride	BB
3	2.87	0.008	0.505	Nitrate	BB
4	4.28	0.068	9.759	Sulfate	BB

Sample data

Ident	R2404888-017
Sample type	Sample
Determination start	2024-06-14 20:01:11 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86155
Sample Position	10
Comment 1	300.0 C
Comment 2	

Anions



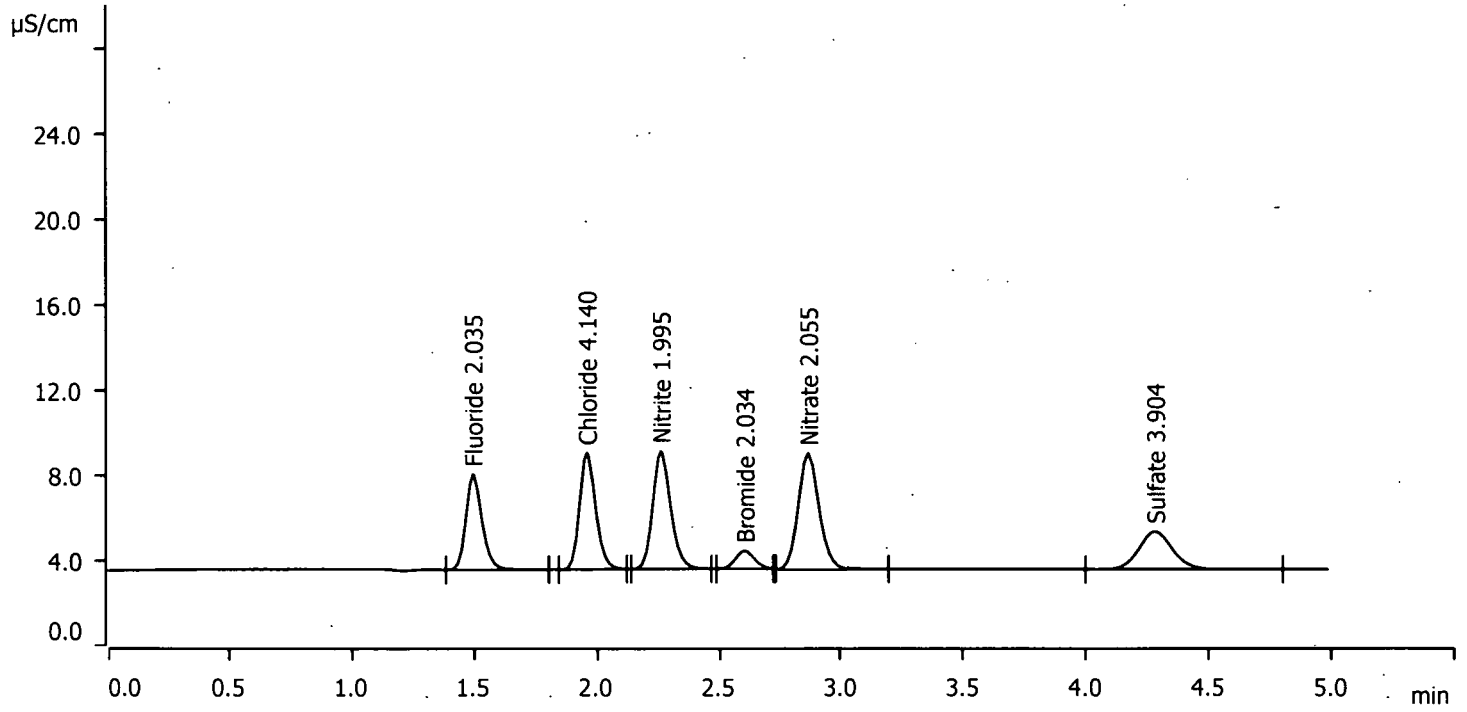
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.163	17.698	Chloride	BB
3	2.87	0.003	0.254	Nitrate	BB
4	4.29	0.015	2.125	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-06-14 20:07:27 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86156
Sample Position	11
Comment 1	300.0/9056A
Comment 2	

Anions



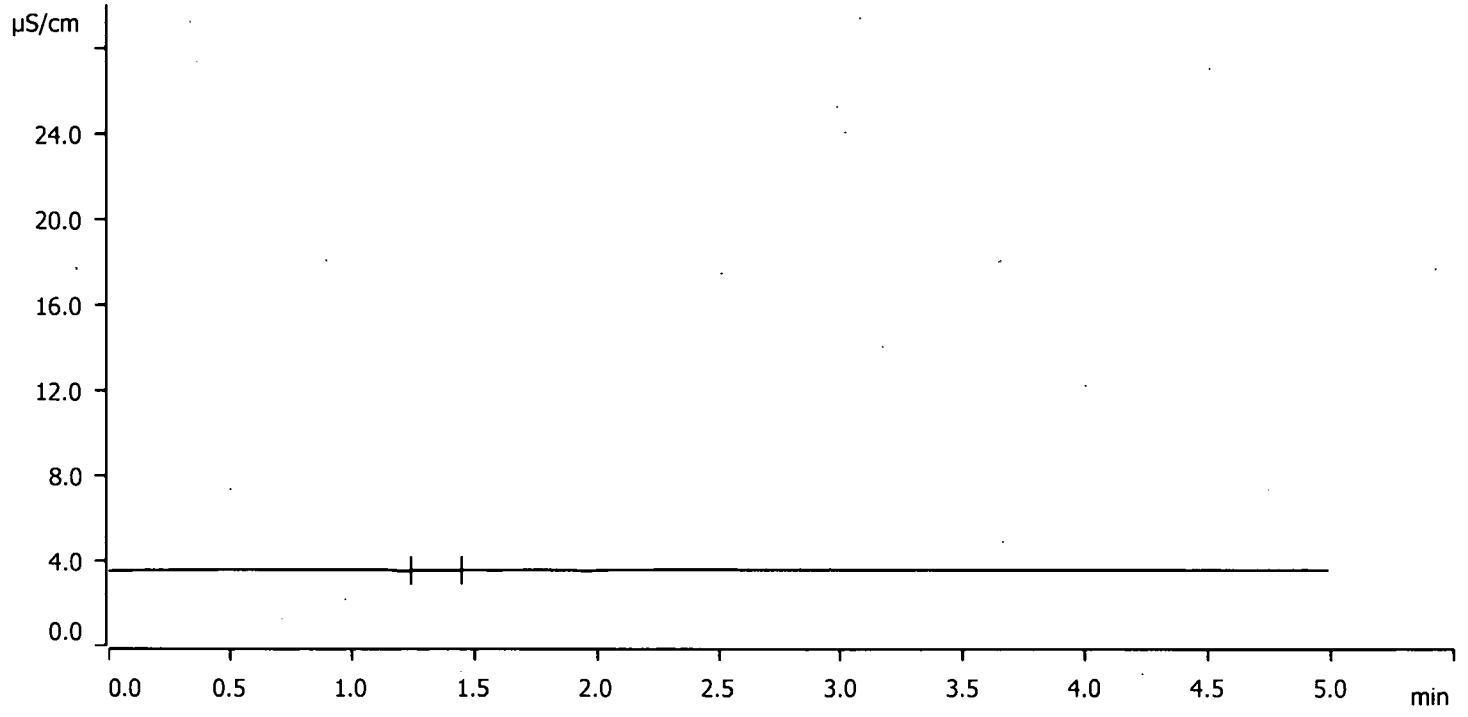
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.342	2.035	Fluoride	BB
2	1.96	0.413	4.140	Chloride	BB
3	2.26	0.479	1.995	Nitrite	BB
4	2.61	0.075	2.034	Bromide	BB
5	2.87	0.524	2.055	Nitrate	BB
6	4.28	0.282	3.904	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-06-14 20:13:45 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86157
Sample Position	12
Comment 1	300.0/9056A
Comment 2	

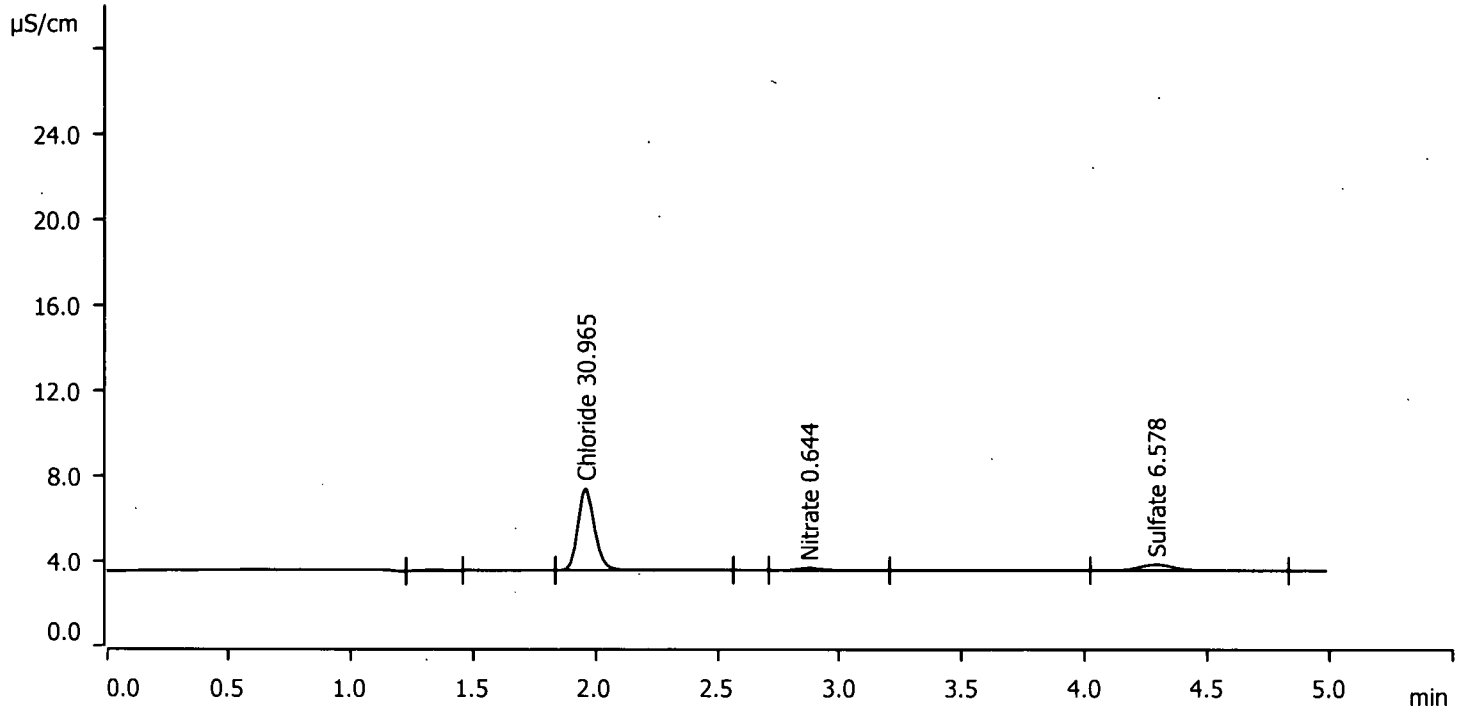
Anions



Sample data

Ident	R2404888-019
Sample type	Sample
Determination start	2024-06-14 20:20:01 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86158
Sample Position	13
Comment 1	300.0 C
Comment 2	

Anions



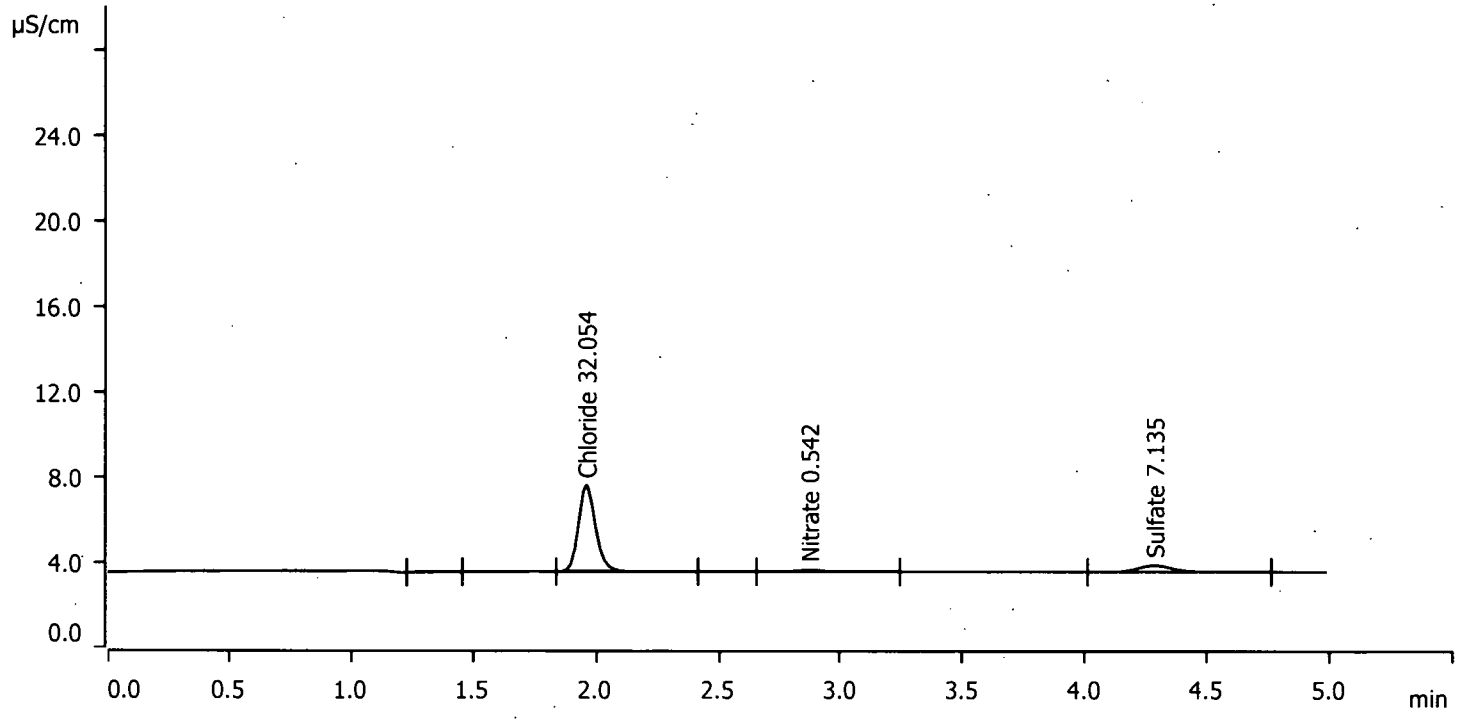
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.299	30.965	Chloride	BB
3	2.87	0.011	0.644	Nitrate	BB
4	4.29	0.046	6.578	Sulfate	BB

Sample data

Ident	R2404888-021
Sample type	Sample
Determination start	2024-06-14 20:26:17 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86159
Sample Position	14
Comment 1	300.0 C
Comment 2	

Anions



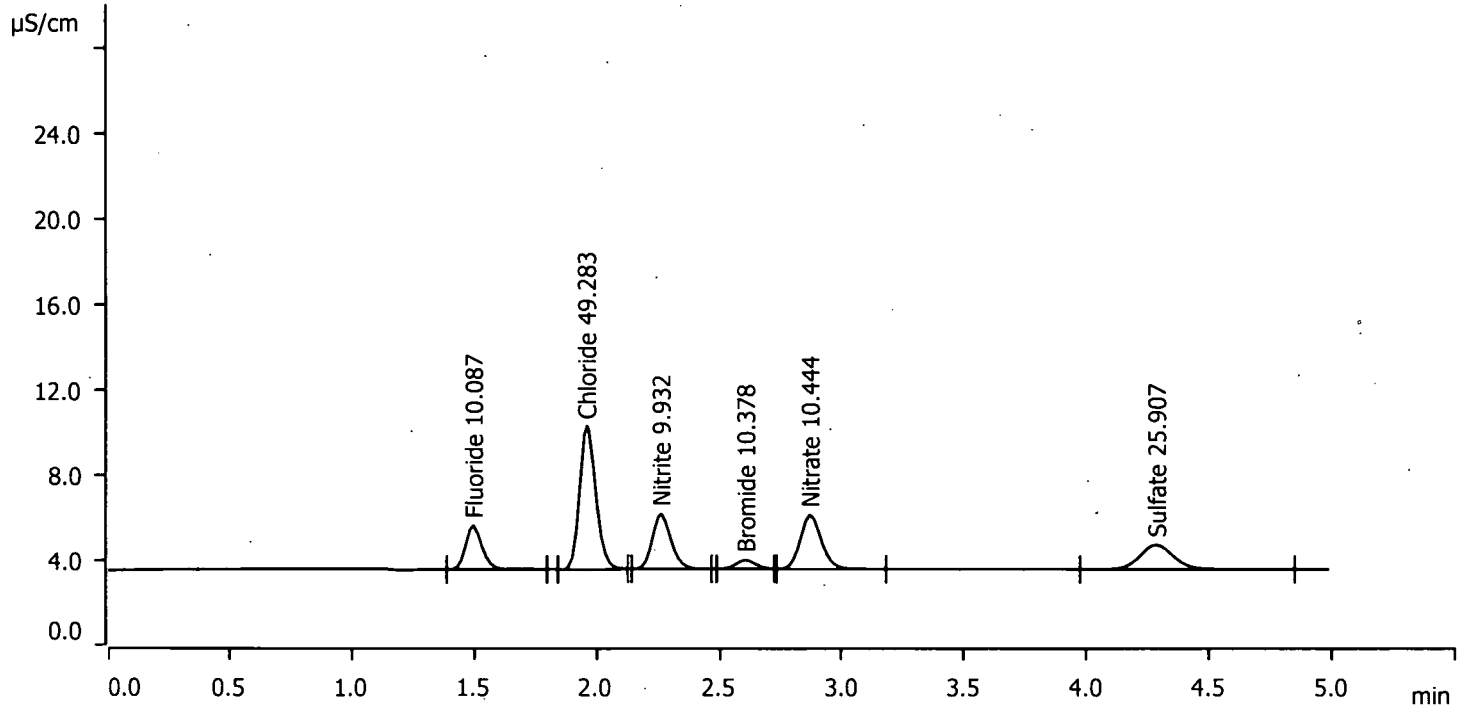
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.311	32.054	Chloride	BB
3	2.87	0.009	0.542	Nitrate	BB
4	4.28	0.050	7.135	Sulfate	BB

Sample data

Ident	R2404888-021 MS!
Sample type	Sample
Determination start	2024-06-14 20:32:34 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86160
Sample Position	15
Comment 1	300.0 C
Comment 2	

Anions



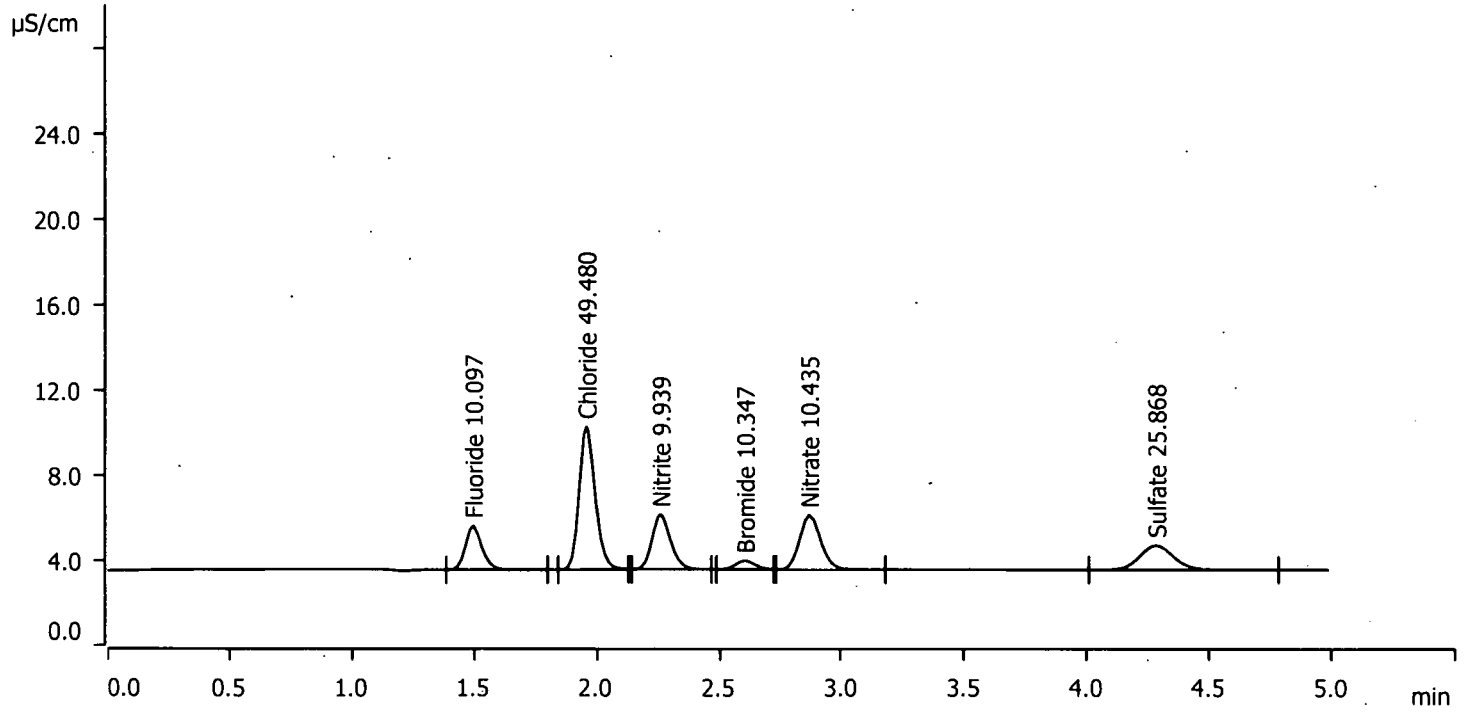
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.161	10.087	Fluoride	BB
2	1.96	0.502	49.283	Chloride	BB
3	2.26	0.227	9.932	Nitrite	BB
4	2.61	0.037	10.378	Bromide	BB
5	2.87	0.250	10.444	Nitrate	BB
6	4.28	0.184	25.907	Sulfate	BB

Sample data

Ident	R2404888-021 MSD!
Sample type	Sample
Determination start	2024-06-14 20:38:51 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86161
Sample Position	16
Comment 1	300.0 C
Comment 2	

Anions



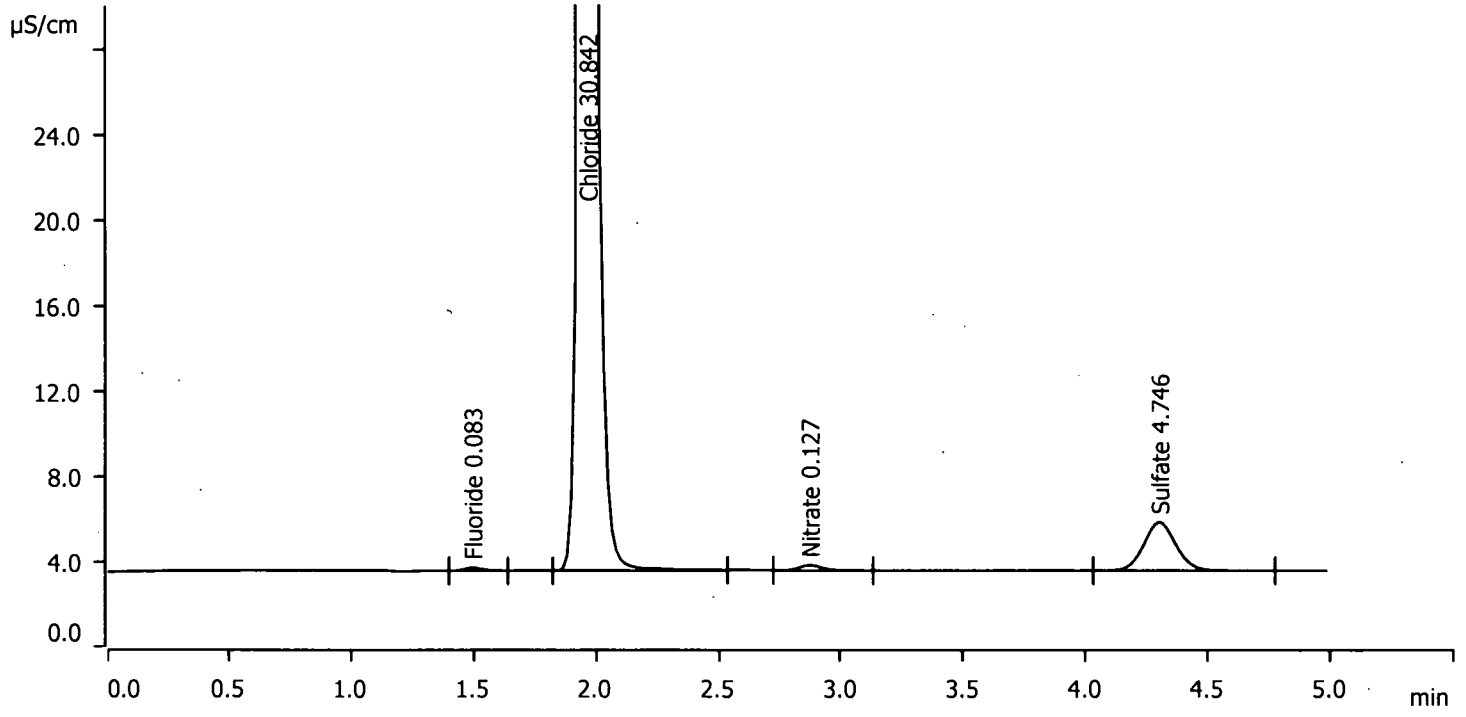
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.161	10.097	Fluoride	BB
2	1.96	0.505	49.480	Chloride	BB
3	2.26	0.227	9.939	Nitrite	BB
4	2.61	0.037	10.347	Bromide	BB
5	2.87	0.250	10.435	Nitrate	BB
6	4.28	0.184	25.868	Sulfate	BB

Sample data

Ident	R2404659-005
Sample type	Sample
Determination start	2024-06-14 20:45:07 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86162
Sample Position	17
Comment 1	300.0 FS
Comment 2	

Anions



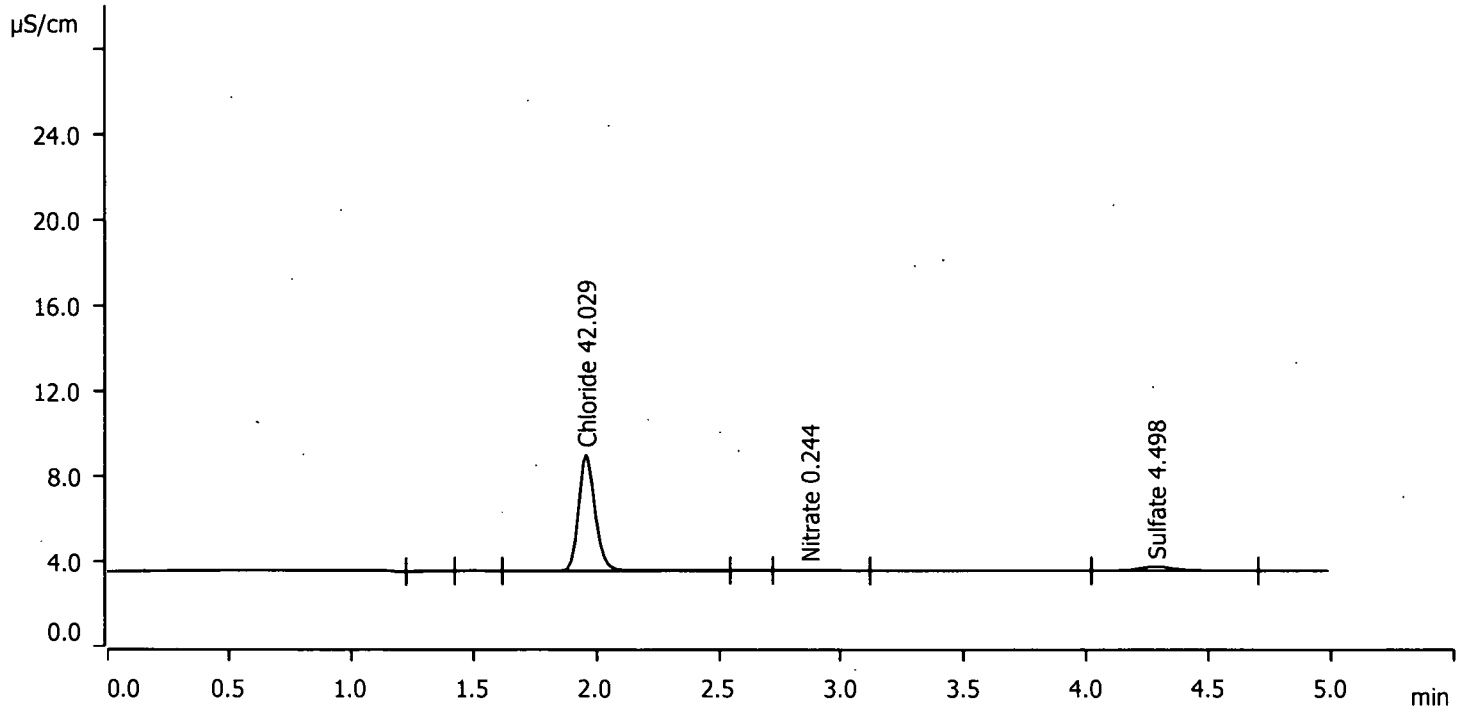
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.012	0.083	Fluoride	BB
2	1.97	5.256	30.842	Chloride	BB
3	2.87	0.026	0.127	Nitrate	BB
4	4.30	0.347	4.746	Sulfate	BB

Sample data

Ident	R2404659-005
Sample type	Sample
Determination start	2024-06-14 20:51:24 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86163
Sample Position	18
Comment 1	300.0 C
Comment 2	

Anions



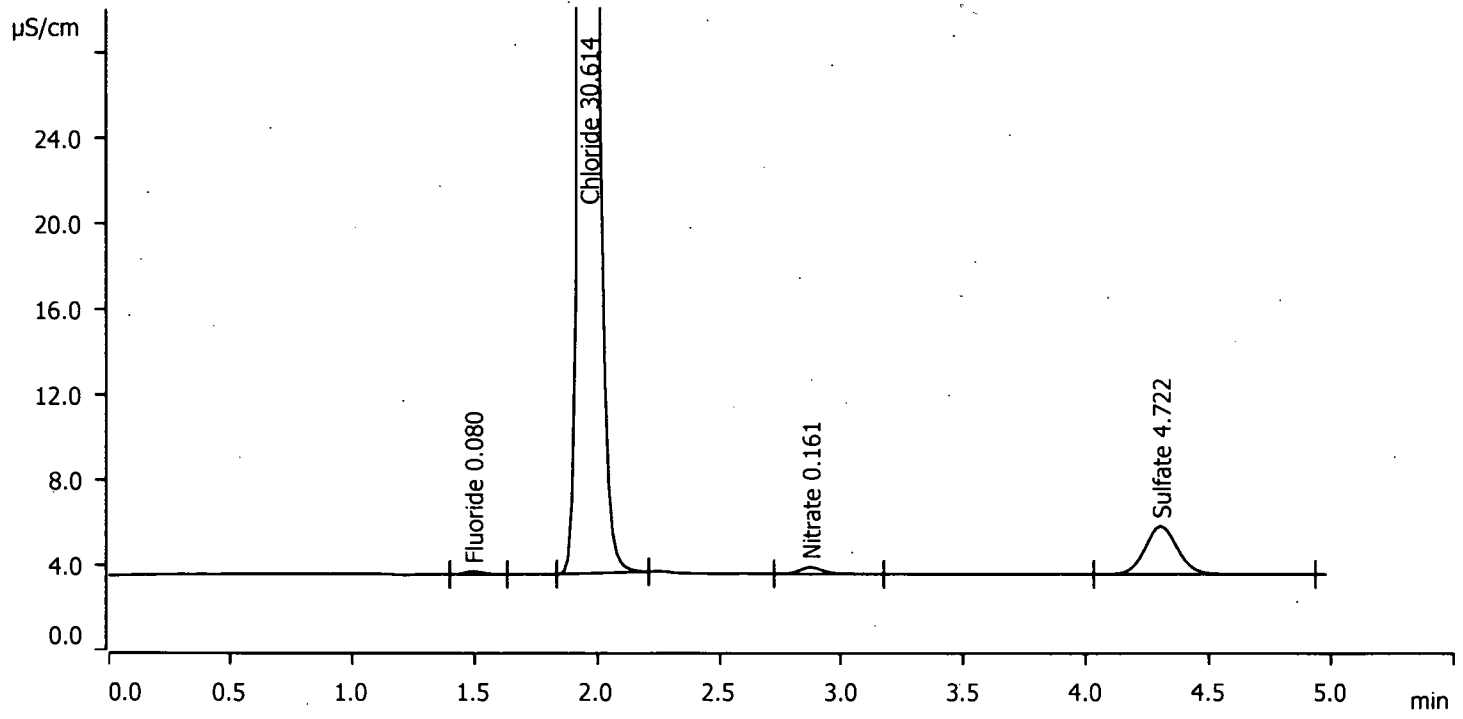
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.420	42.029	Chloride	BB
3	2.87	0.002	0.244	Nitrate	BB
4	4.28	0.031	4.498	Sulfate	BB

Sample data

Ident	R2404659-007
Sample type	Sample
Determination start	2024-06-14 20:57:40 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86164
Sample Position	19
Comment 1	300.0 FS
Comment 2	

Anions



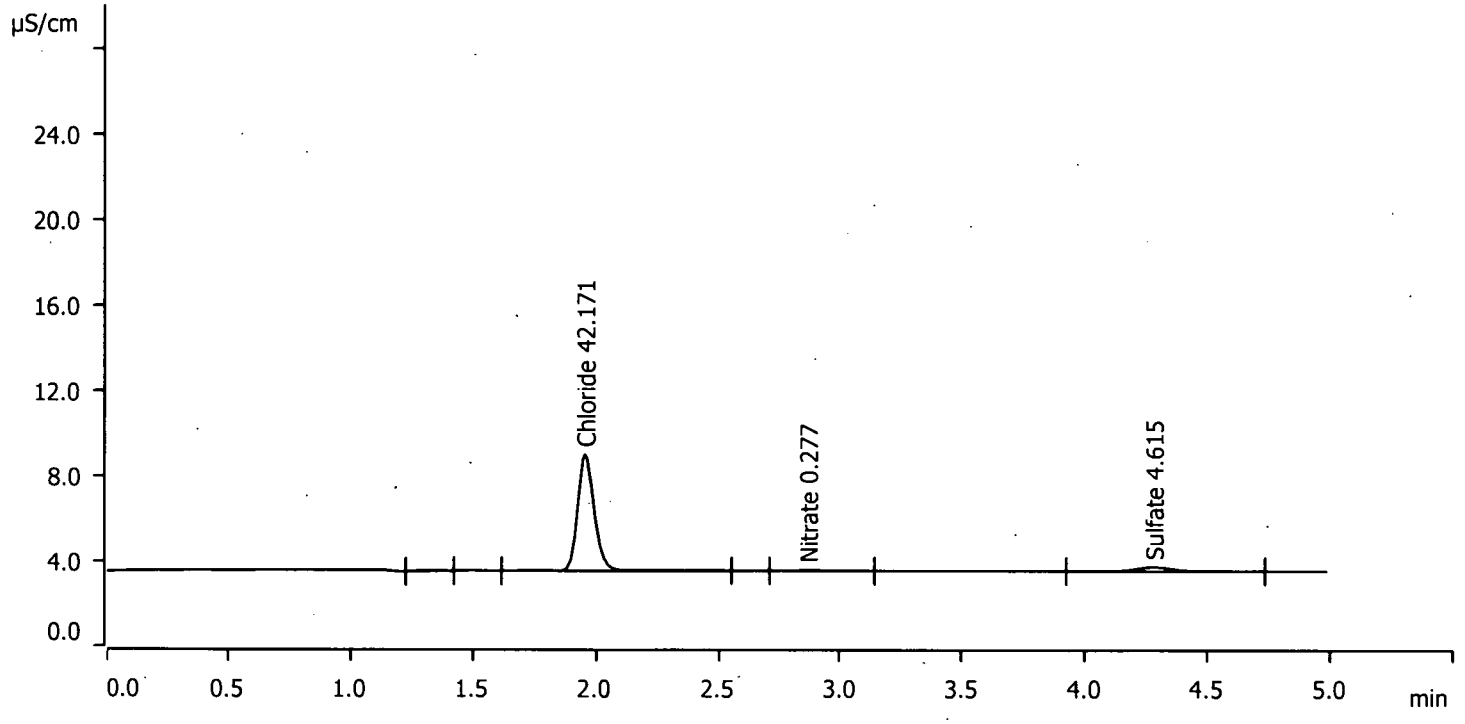
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.012	0.080	Fluoride	BB
2	1.97	5.199	30.614	Chloride	BB
3	2.87	0.034	0.161	Nitrate	BB
4	4.30	0.345	4.722	Sulfate	BB

Sample data

Ident	R2404659-007
Sample type	Sample
Determination start	2024-06-14 21:03:56 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86165
Sample Position	20
Comment 1	300.0 C
Comment 2	

Anions



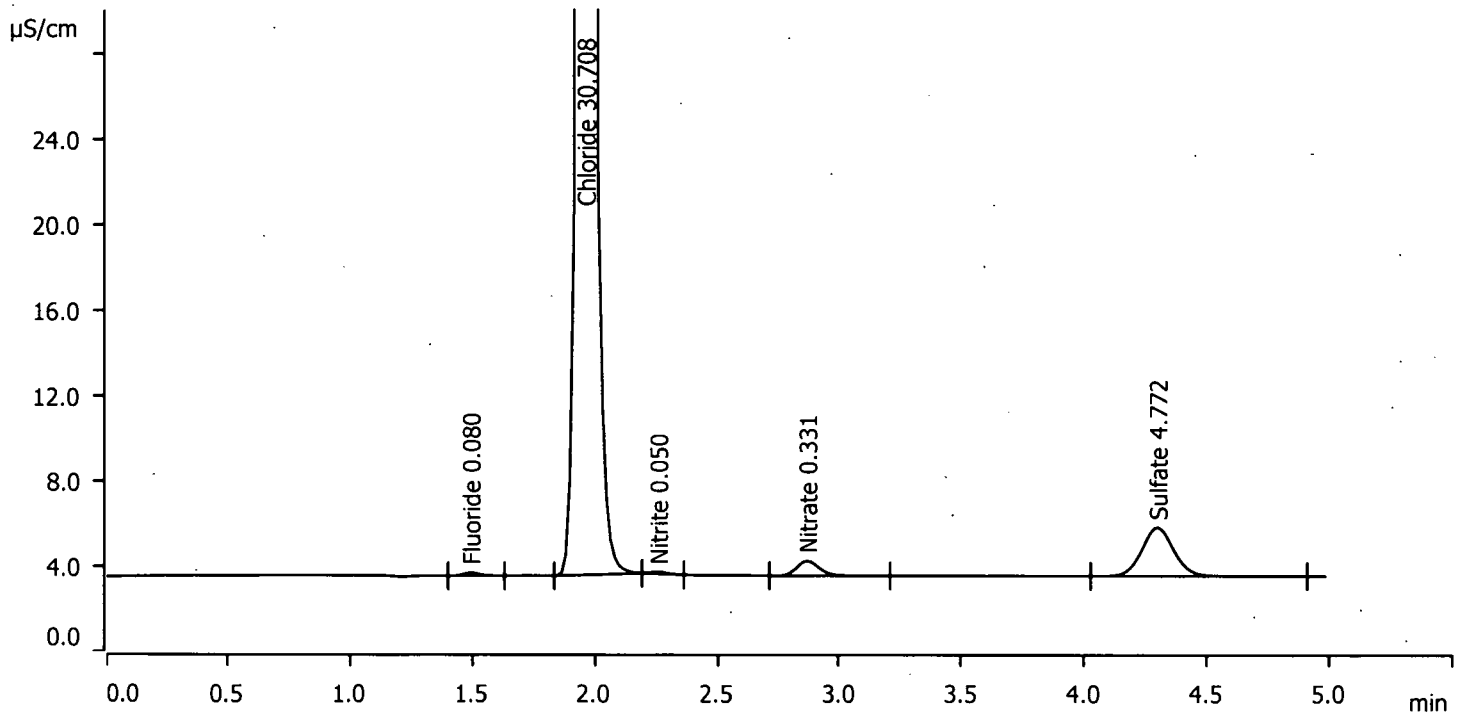
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.422	42.171	Chloride	BB
3	2.87	0.003	0.277	Nitrate	BB
4	4.28	0.032	4.615	Sulfate	BB

Sample data

Ident	R2404659-009
Sample type	Sample
Determination start	2024-06-14 21:10:13 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86166
Sample Position	21
Comment 1	300.0 FS
Comment 2	

Anions



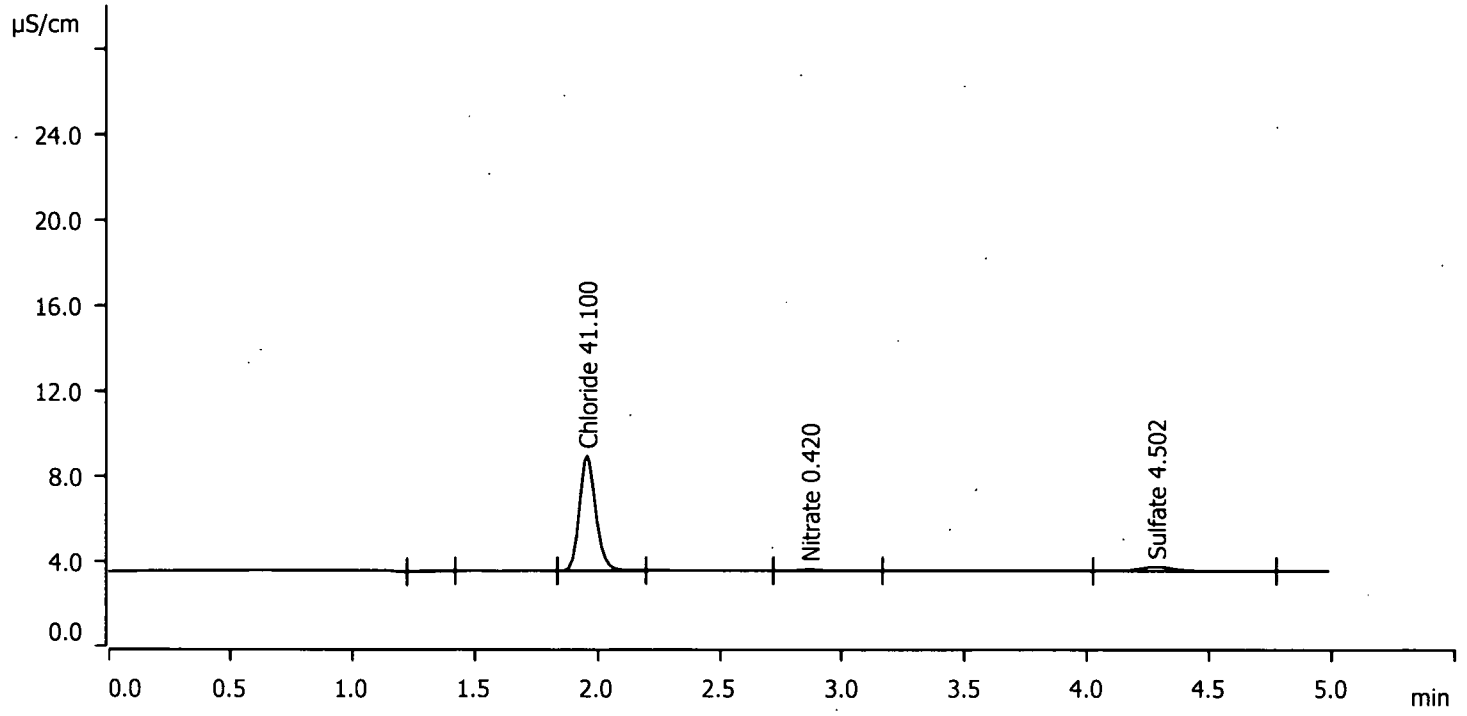
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.012	0.080	Fluoride	BB
2	1.97	5.223	30.708	Chloride	BB
3	2.26	0.007	0.050	Nitrite	BB
4	2.87	0.074	0.331	Nitrate	BB
5	4.30	0.349	4.772	Sulfate	BB

Sample data

Ident	R2404659-009
Sample type	Sample
Determination start	2024-06-14 21:16:30 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86167
Sample Position	22
Comment 1	300.0 C
Comment 2	

Anions



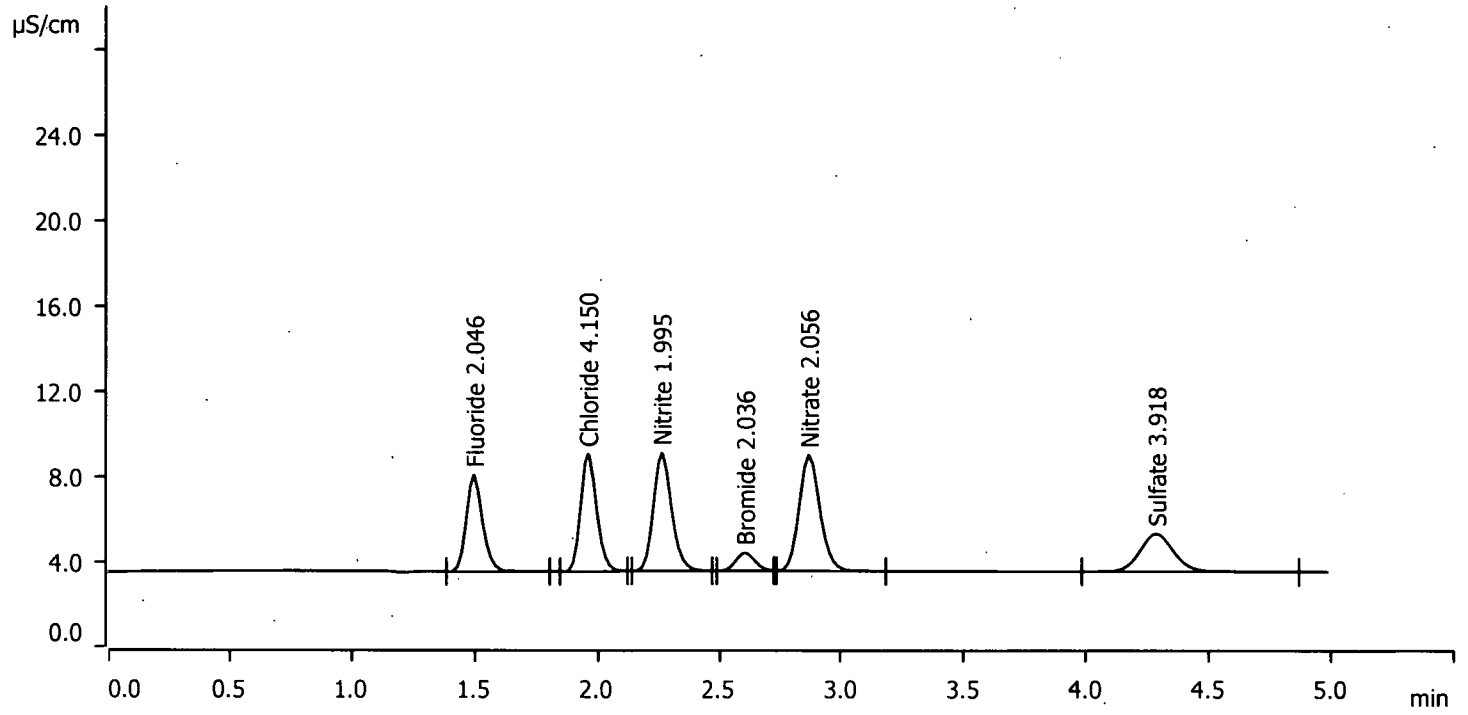
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.410	41.100	Chloride	BB
3	2.87	0.006	0.420	Nitrate	BB
4	4.28	0.031	4.502	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-06-14 21:22:46 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86168
Sample Position	23
Comment 1	300.0/9056A
Comment 2	

Anions



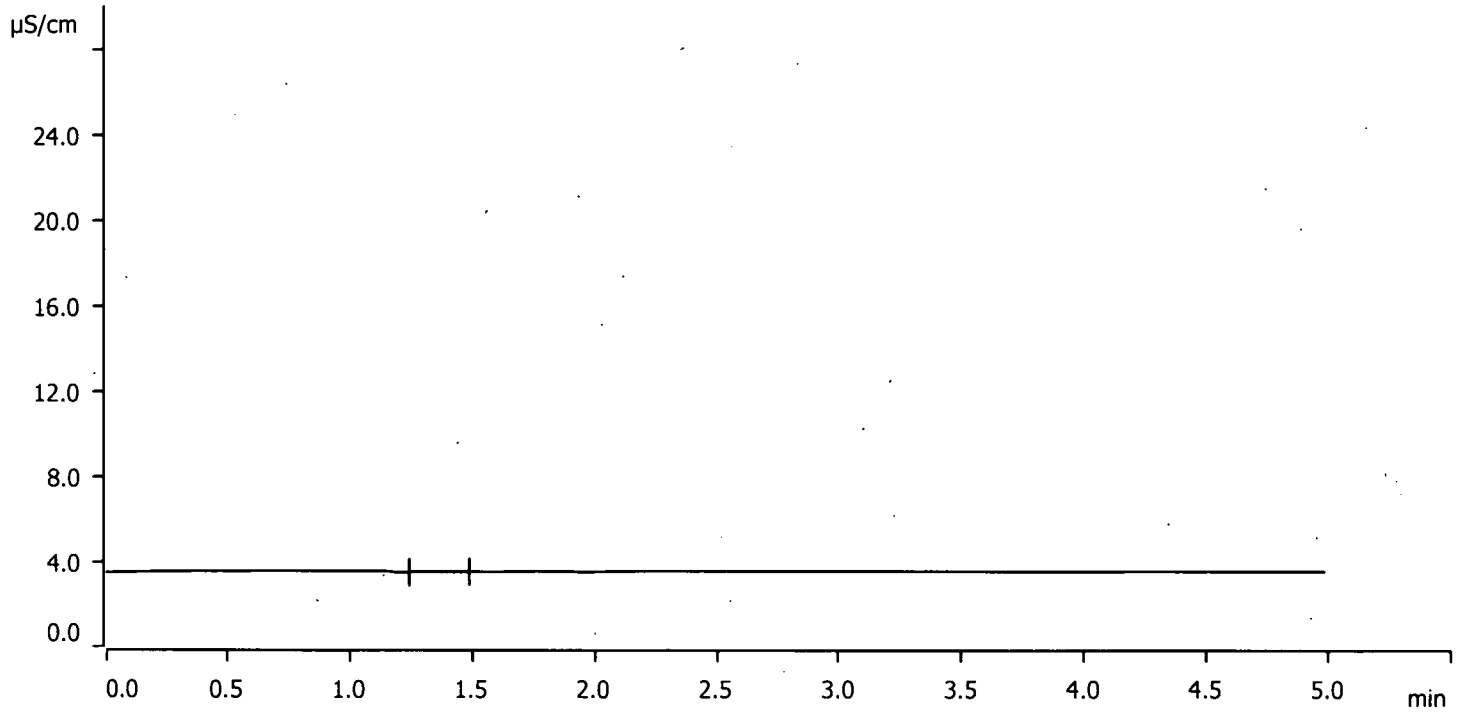
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.344	2.046	Fluoride	BB
2	1.96	0.414	4.150	Chloride	BB
3	2.27	0.479	1.995	Nitrite	BB
4	2.61	0.075	2.036	Bromide	BB
5	2.87	0.524	2.056	Nitrate	BB
6	4.29	0.283	3.918	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-06-14 21:29:04 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86169
Sample Position	24
Comment 1	300.0/9056A
Comment 2	

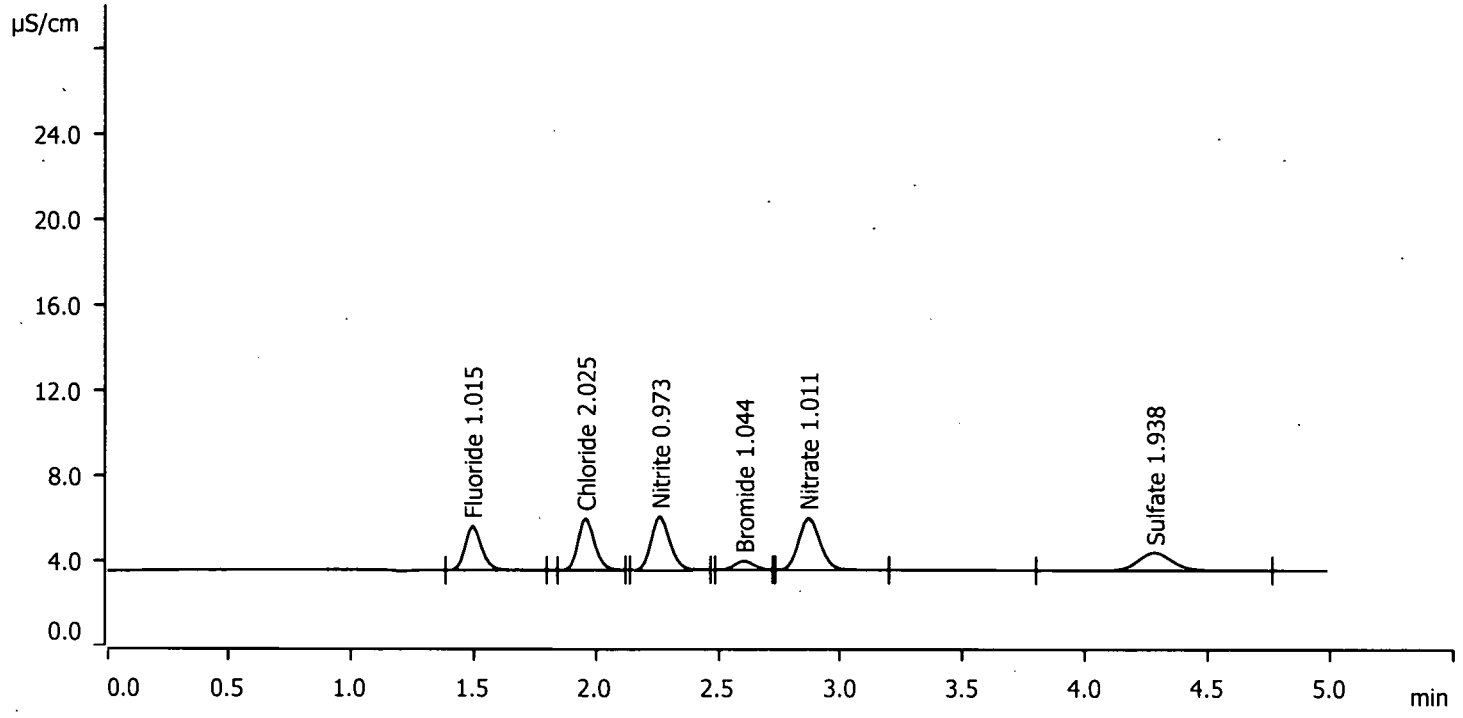
Anions



Sample data

Ident	LCS
Sample type	Check standard 2
Determination start	2024-06-14 21:35:20 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86170
Sample Position	25
Comment 1	300.0/9056A
Comment 2	

Anions



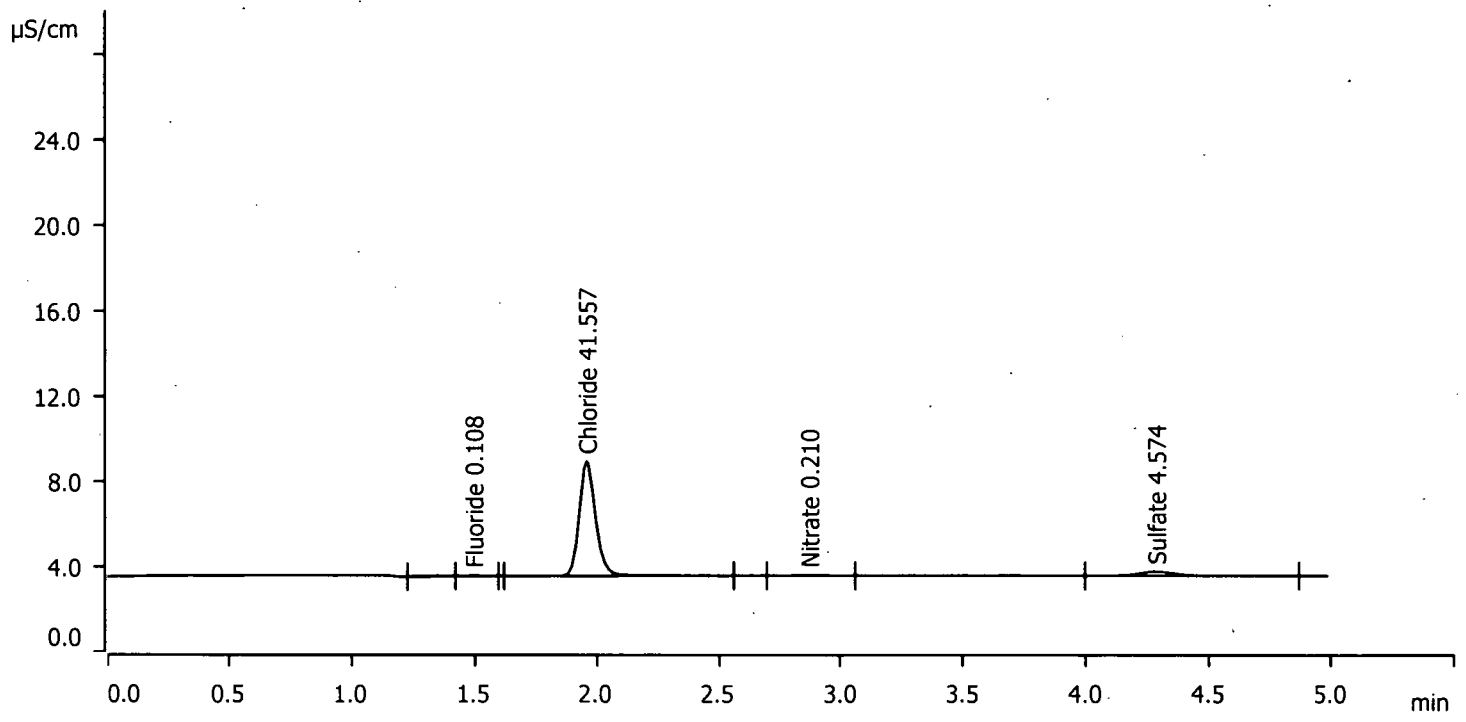
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.162	1.015	Fluoride	BB
2	1.96	0.189	2.025	Chloride	BB
3	2.26	0.222	0.973	Nitrite	BB
4	2.61	0.038	1.044	Bromide	BB
5	2.87	0.242	1.011	Nitrate	BB
6	4.28	0.136	1.938	Sulfate	BB

Sample data

Ident	R2404675-001
Sample type	Sample
Determination start	2024-06-14 21:41:43 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86171
Sample Position	26
Comment 1	300.0 CS
Comment 2	

Anions



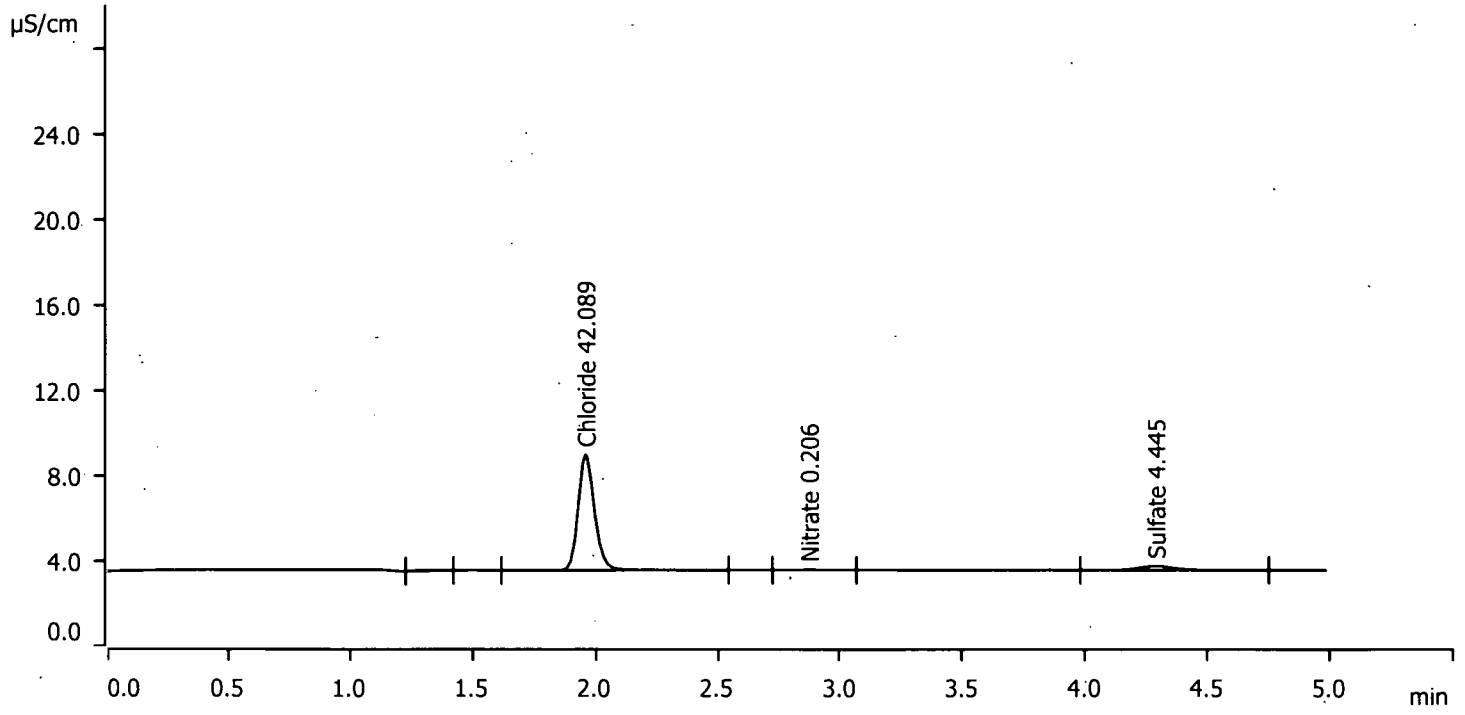
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.50	0.001	0.108	Fluoride	BB
3	1.96	0.415	41.557	Chloride	BB
4	2.87	0.002	0.210	Nitrate	BB
5	4.28	0.032	4.574	Sulfate	BB

Sample data

Ident	R2404675-003
Sample type	Sample
Determination start	2024-06-14 21:48:00 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86172
Sample Position	27
Comment 1	300.0 CS
Comment 2	

Anions



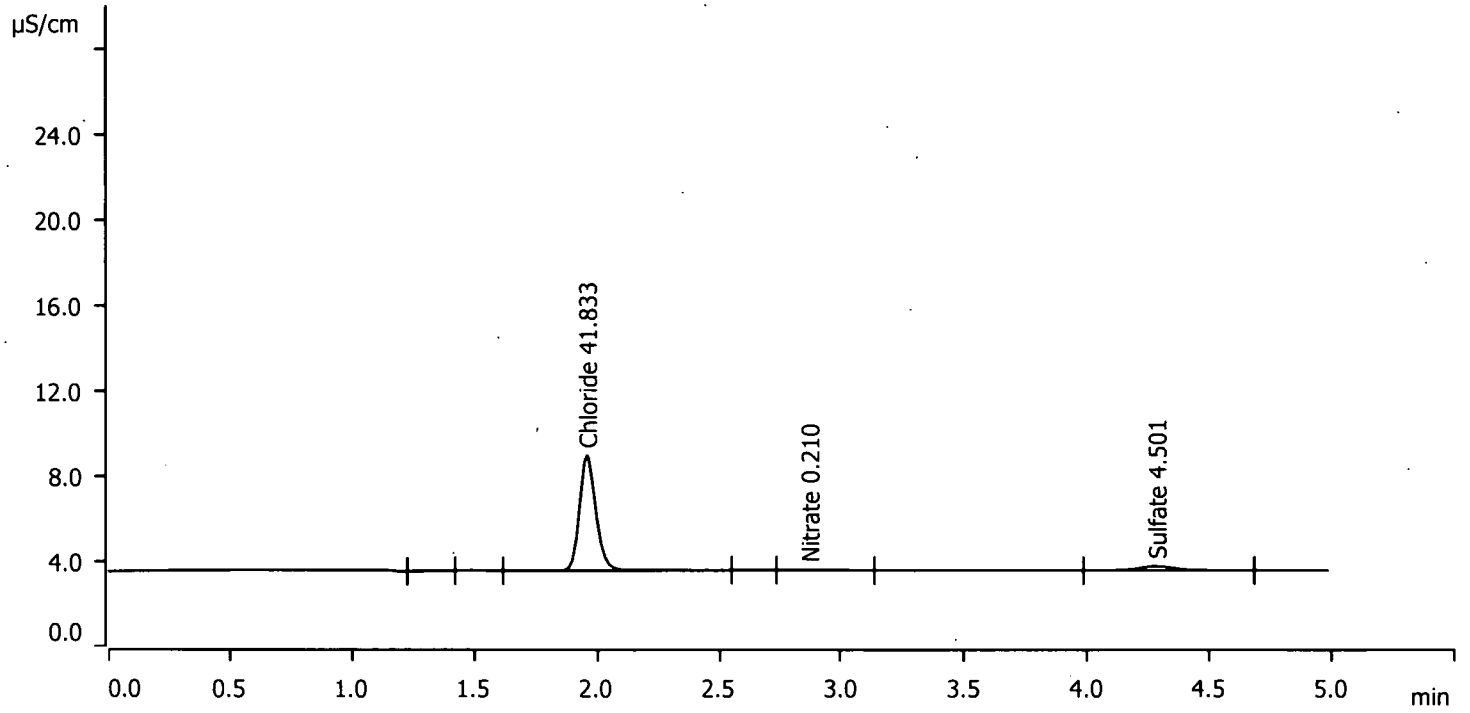
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.421	42.089	Chloride	BB
3	2.87	0.001	0.206	Nitrate	BB
4	4.29	0.031	4.445	Sulfate	BB

Sample data

Ident	R2404675-005
Sample type	Sample
Determination start	2024-06-14 21:54:16 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86173
Sample Position	28
Comment 1	300.0 CS
Comment 2	

Anions



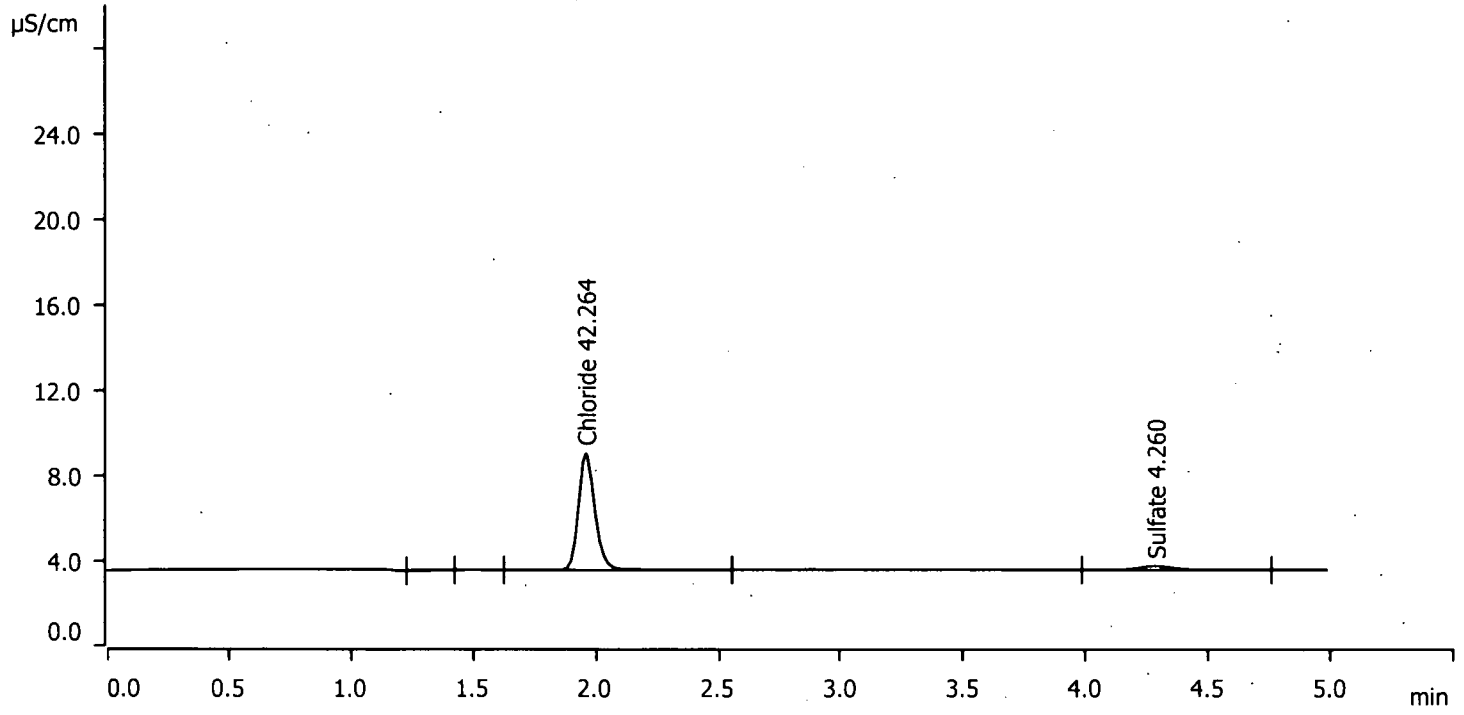
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.418	41.833	Chloride	BB
3	2.87	0.002	0.210	Nitrate	BB
4	4.28	0.031	4.501	Sulfate	BB

Sample data

Ident	R2404675-007
Sample type	Sample
Determination start	2024-06-14 22:00:33 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86174
Sample Position	29
Comment 1	300.0 CS
Comment 2	

Anions



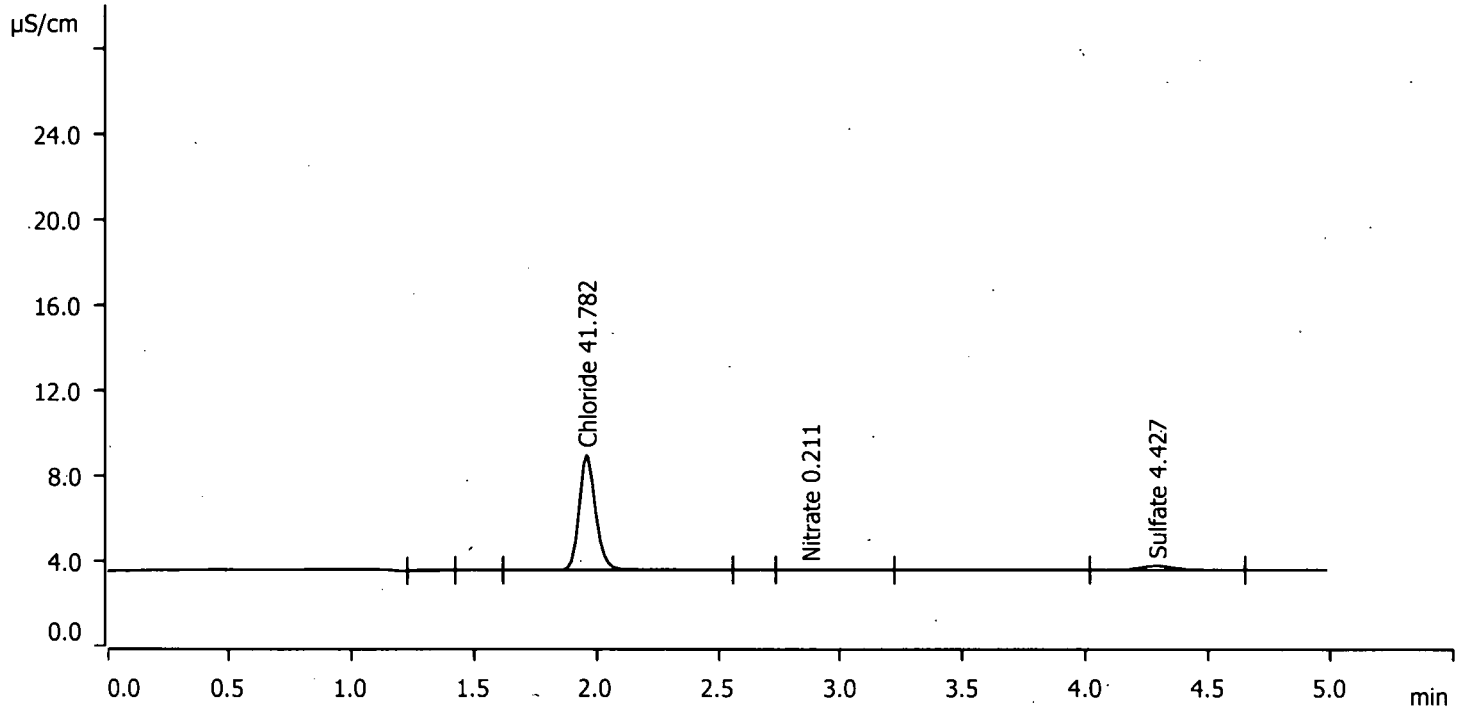
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.423	42.264	Chloride	BB
3	4.29	0.030	4.260	Sulfate	BB

Sample data

Ident	R2404675-009
Sample type	Sample
Determination start	2024-06-14 22:06:49 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86175
Sample Position	30
Comment 1	300.0 CS
Comment 2	

Anions



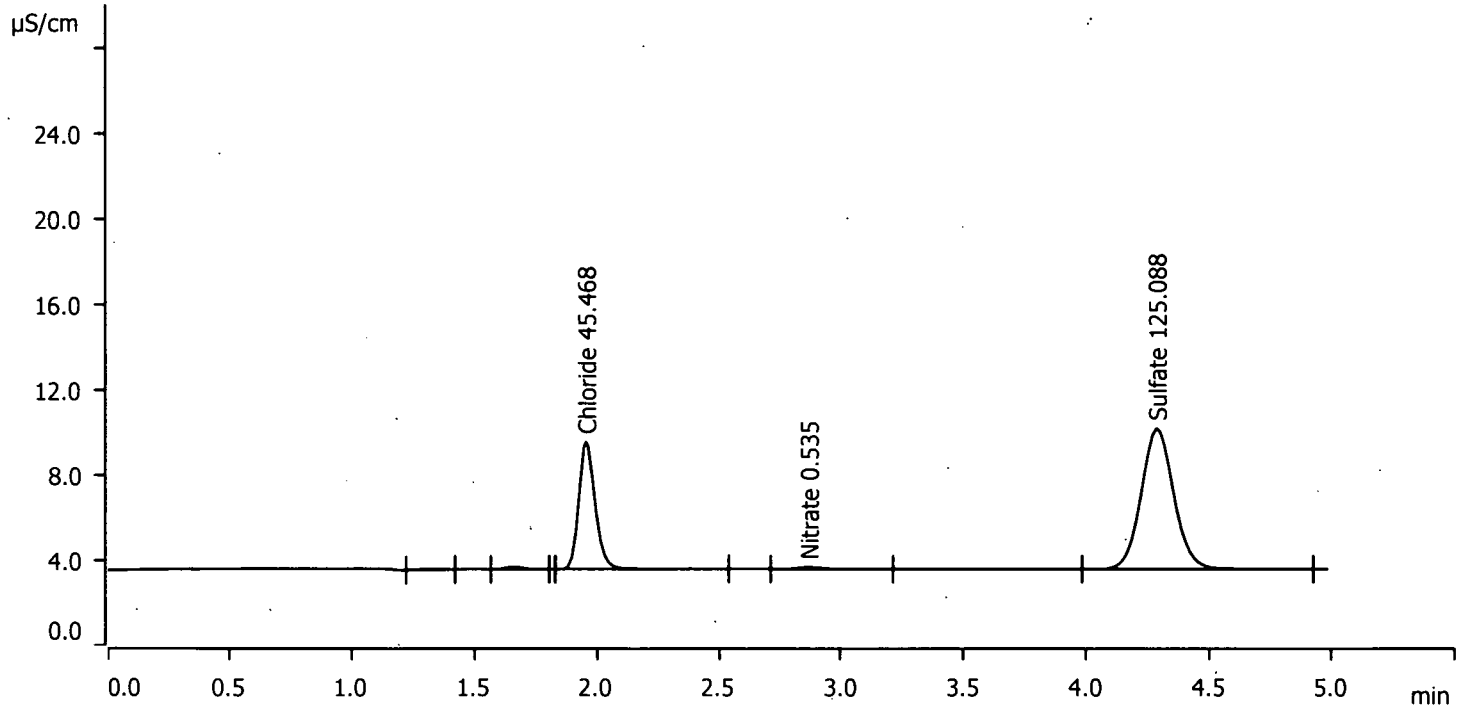
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.417	41.782	Chloride	BB
3	2.87	0.002	0.211	Nitrate	BB
4	4.29	0.031	4.427	Sulfate	BB

Sample data

Ident	R2404675-011
Sample type	Sample
Determination start	2024-06-14 22:13:06 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86176
Sample Position	31
Comment 1	300.0 C
Comment 2	

Anions



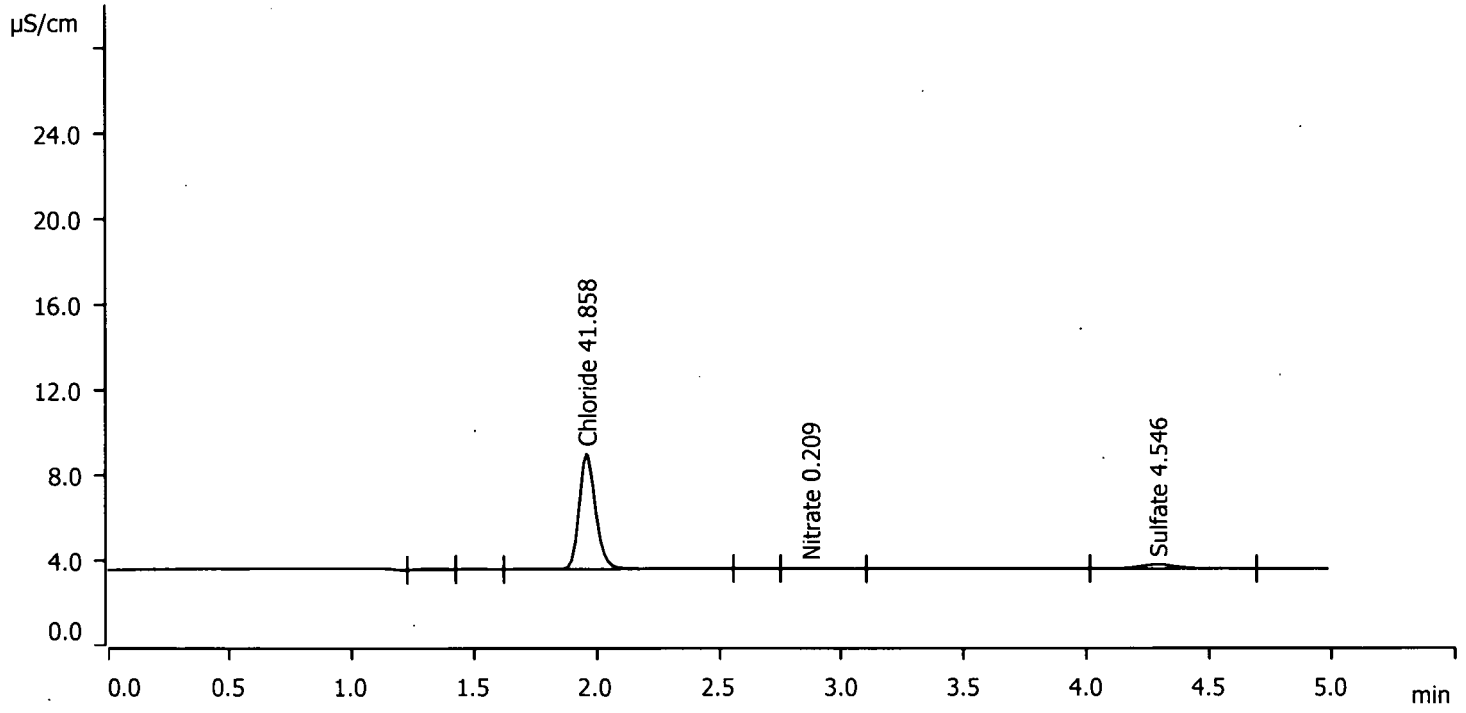
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
3	1.96	0.459	45.468	Chloride	BB
4	2.87	0.009	0.535	Nitrate	BB
5	4.29	1.011	125.088	Sulfate	BB

Sample data

Ident	R2404675-013
Sample type	Sample
Determination start	2024-06-14 22:19:32 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86177
Sample Position	32
Comment 1	300.0 CS
Comment 2	

Anions



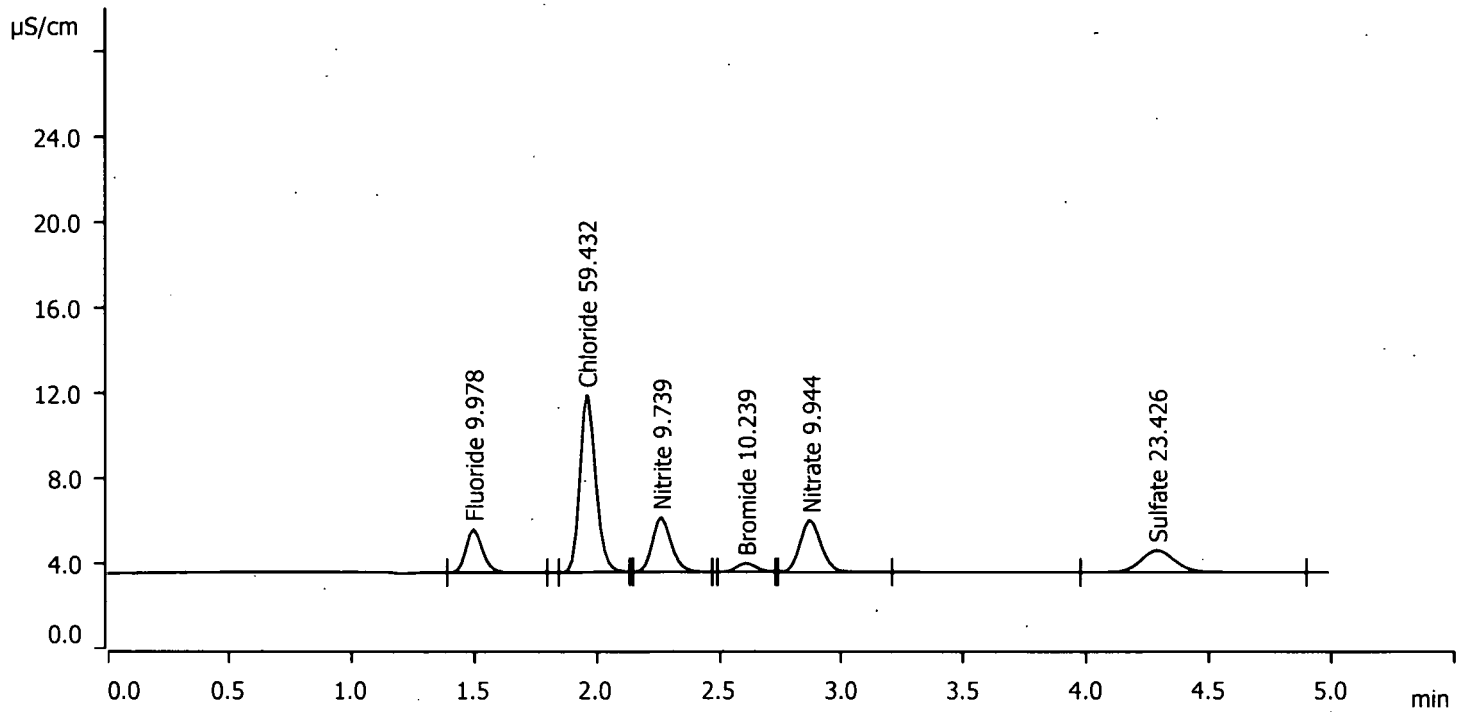
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.418	41.858	Chloride	BB
3	2.87	0.001	0.209	Nitrate	BB
4	4.29	0.032	4.546	Sulfate	BB

Sample data

Ident	R2404675-013 MS
Sample type	Sample
Determination start	2024-06-14 22:25:54 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86178
Sample Position	33
Comment 1	300.0 CS
Comment 2	

Anions



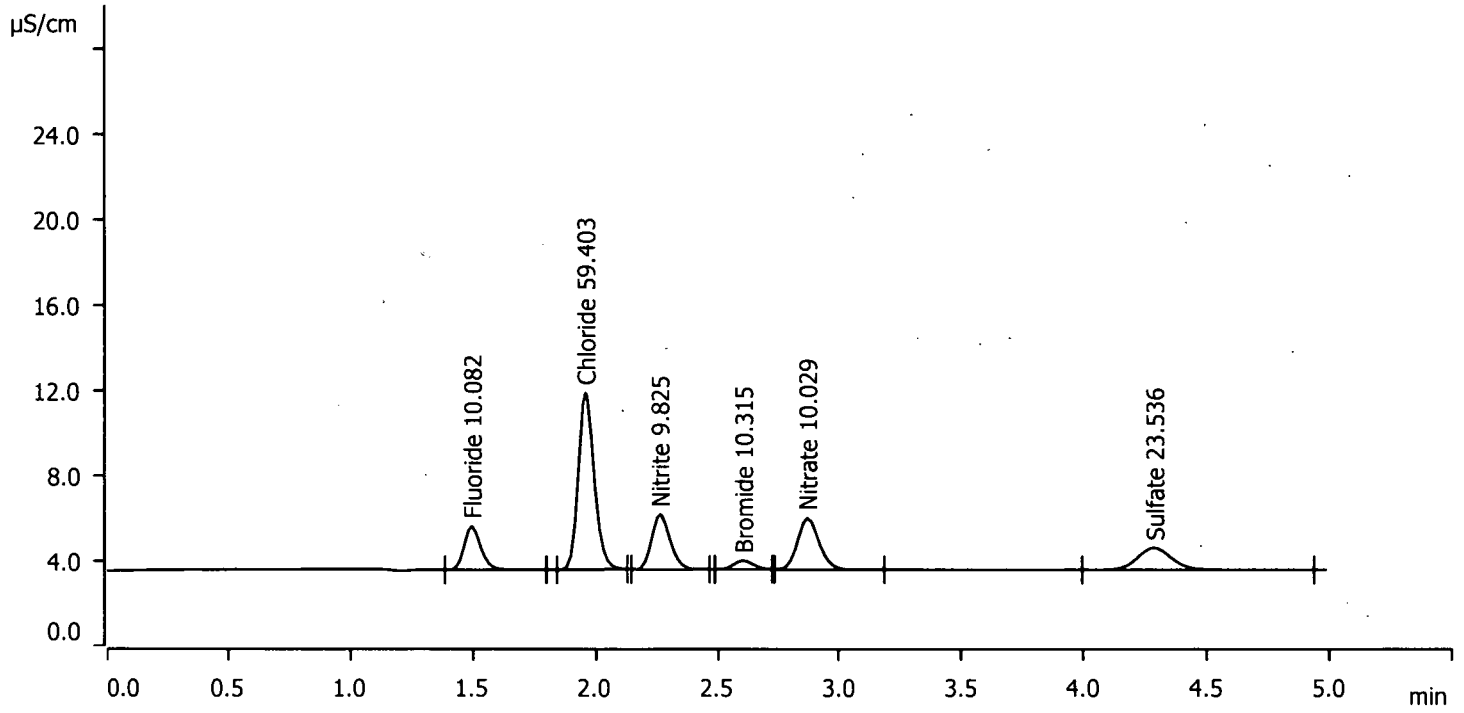
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.159	9.978	Fluoride	BB
2	1.96	0.623	59.432	Chloride	BB
3	2.27	0.222	9.739	Nitrite	BB
4	2.61	0.037	10.239	Bromide	BB
5	2.87	0.237	9.944	Nitrate	BB
6	4.29	0.166	23.426	Sulfate	BB

Sample data

Ident	R2404675-013 MSD
Sample type	Sample
Determination start	2024-06-14 22:32:18 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86179
Sample Position	34
Comment 1	300.0 CS
Comment 2	

Anions



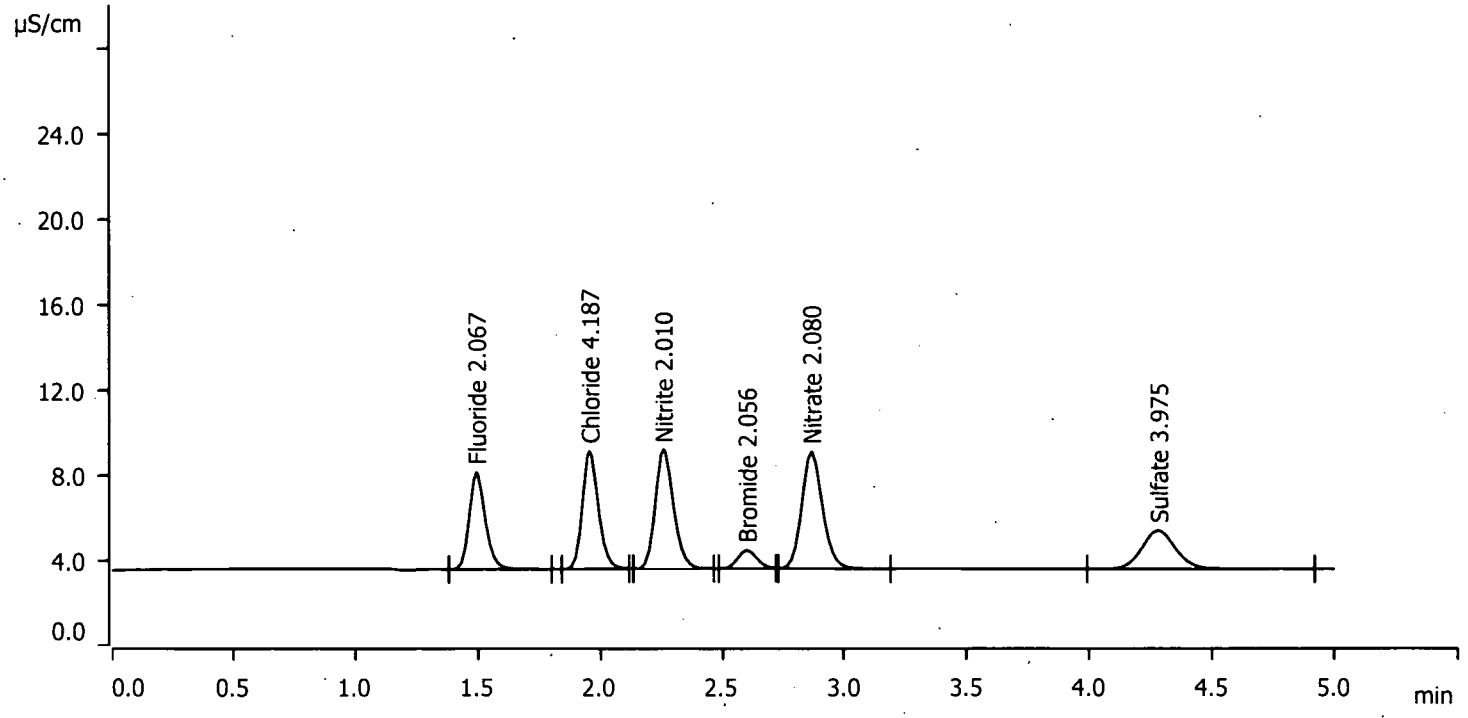
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.161	10.082	Fluoride	BB
2	1.96	0.622	59.403	Chloride	BB
3	2.26	0.224	9.825	Nitrite	BB
4	2.61	0.037	10.315	Bromide	BB
5	2.87	0.240	10.029	Nitrate	BB
6	4.29	0.167	23.536	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-06-14 22:38:35 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86180
Sample Position	35
Comment 1	300.0/9056A
Comment 2	

Anions



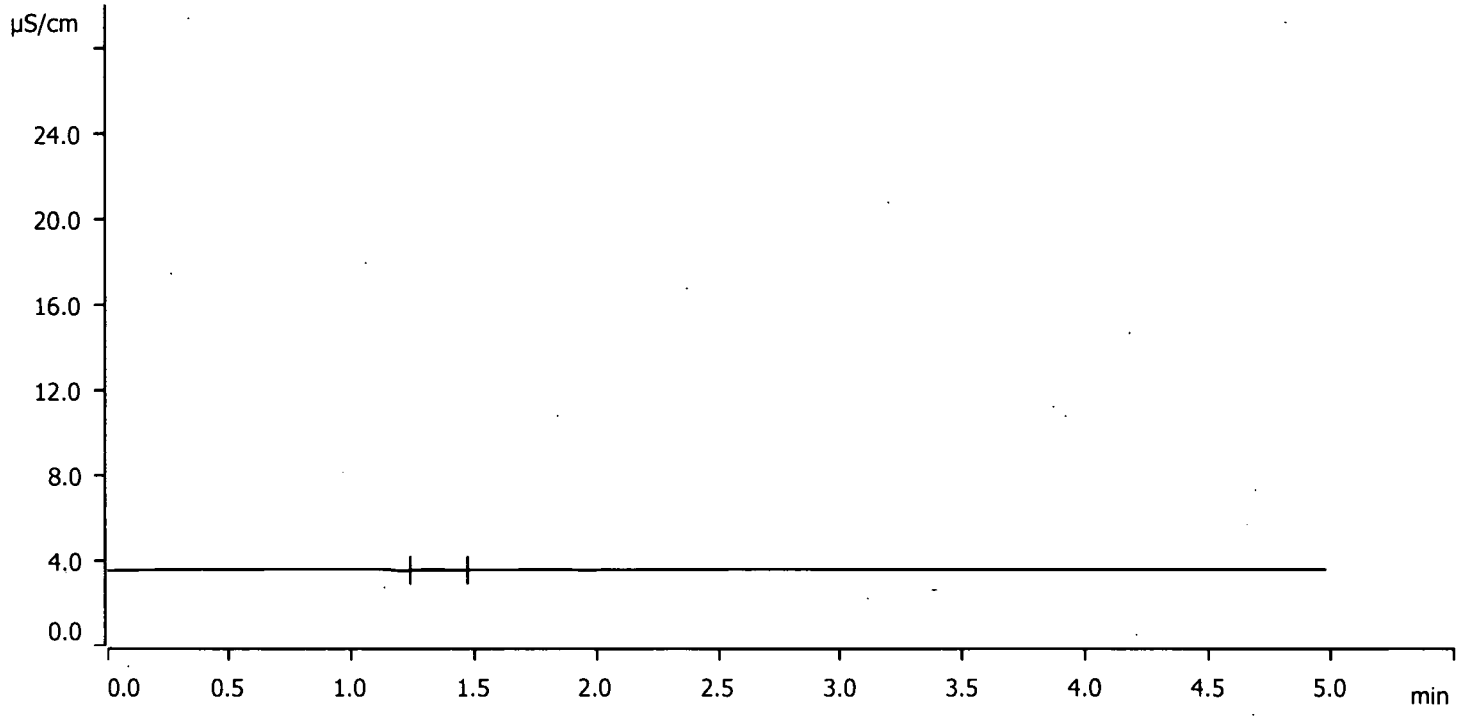
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.348	2.067	Fluoride	BB
2	1.96	0.418	4.187	Chloride	BB
3	2.26	0.483	2.010	Nitrite	BB
4	2.60	0.076	2.056	Bromide	BB
5	2.87	0.531	2.080	Nitrate	BB
6	4.27	0.288	3.975	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-06-14 22:44:59 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86181
Sample Position	36
Comment 1	300.0/9056A
Comment 2	

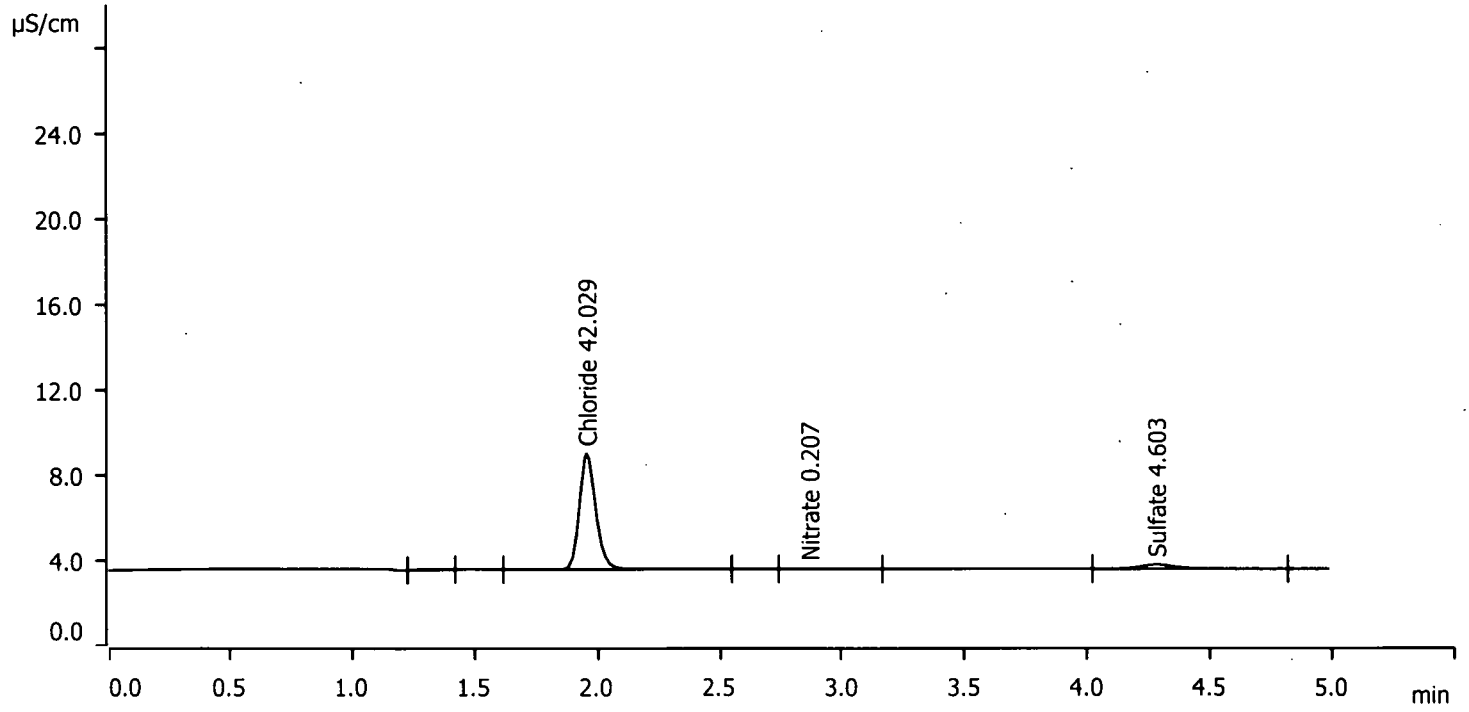
Anions



Sample data

Ident	R2404675-015
Sample type	Sample
Determination start	2024-06-14 22:51:15 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86182
Sample Position	37
Comment 1	300.0 CS
Comment 2	

Anions



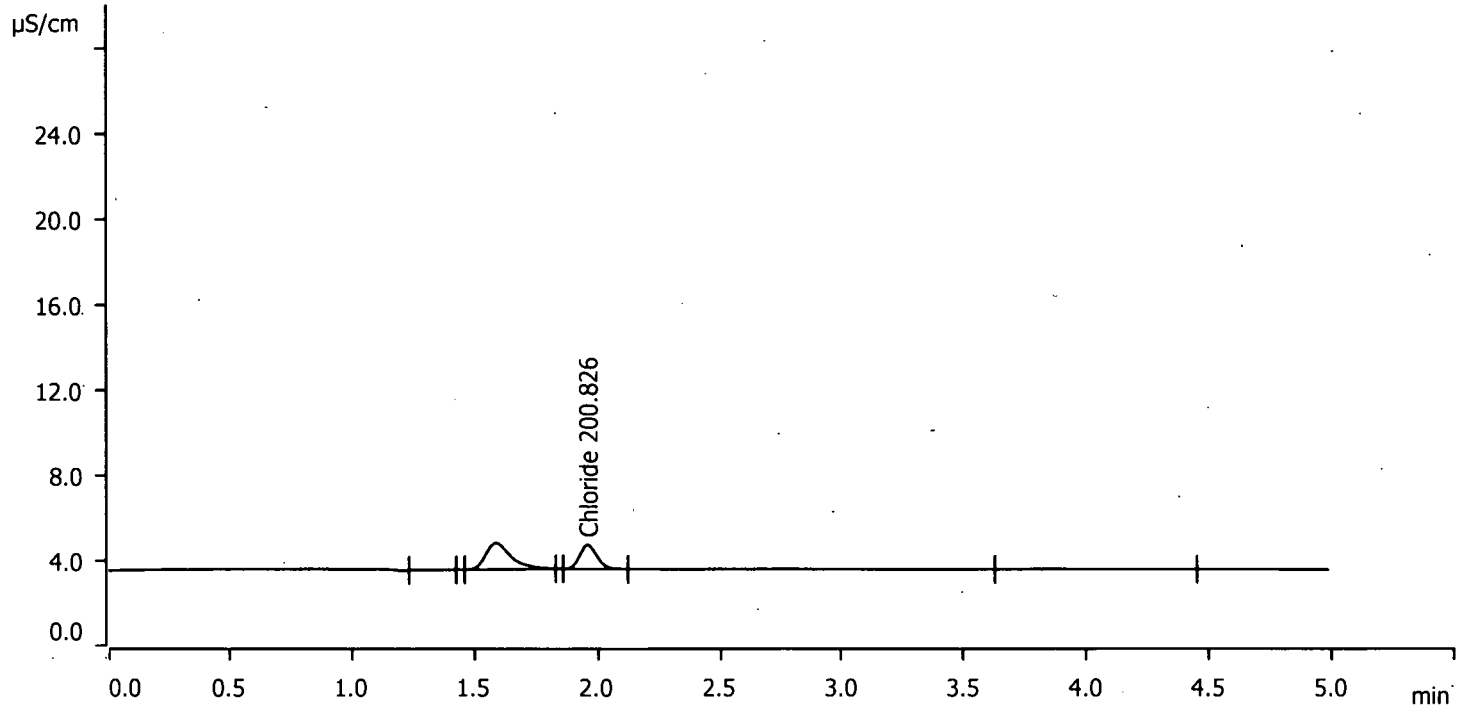
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.420	42.029	Chloride	BB
3	2.87	0.001	0.207	Nitrate	BB
4	4.28	0.032	4.603	Sulfate	BBI

Sample data

Ident	R2404951-001
Sample type	Sample
Determination start	2024-06-14 22:57:32 UTC-4
Method	10-051424FAST
Dilution	200
Counter	86183
Sample Position	38
Comment 1	300.0 C
Comment 2	

Anions



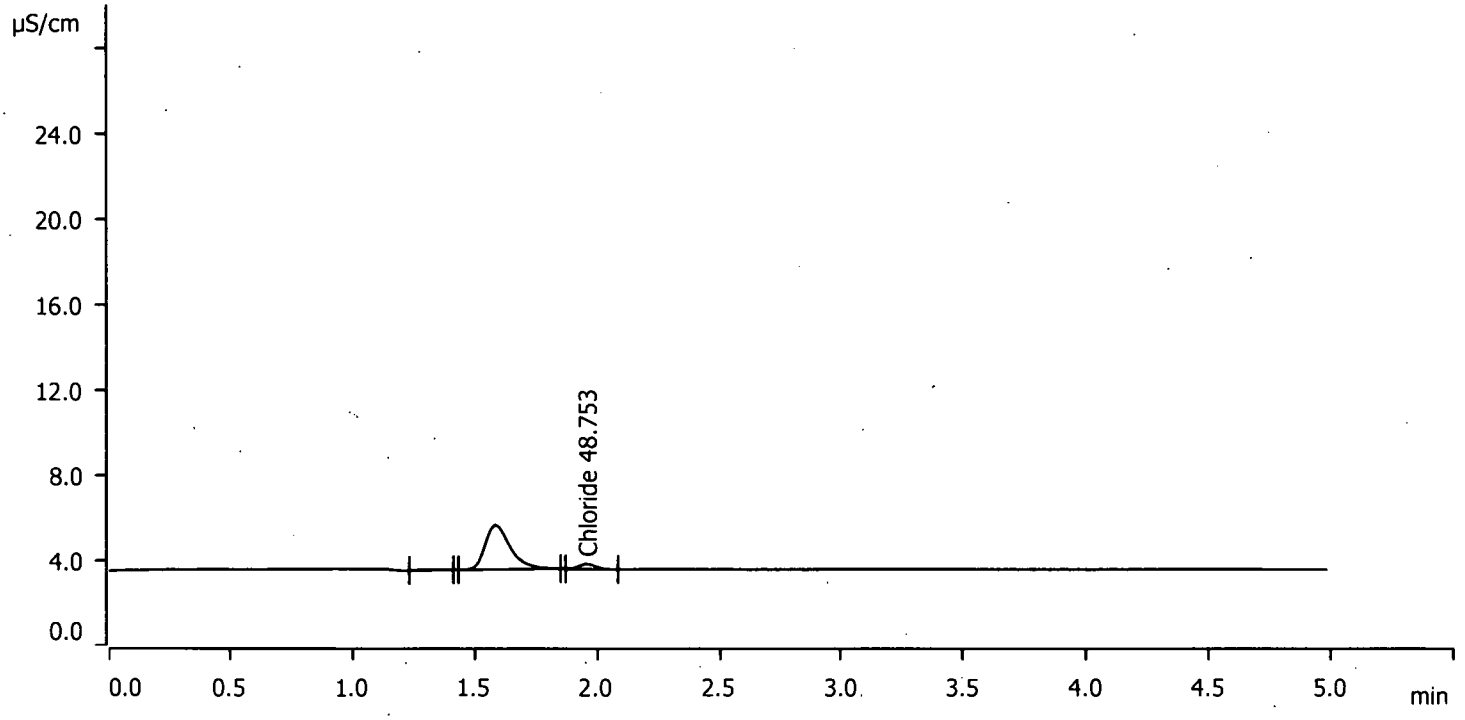
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
3	1.96	0.089	200.826	Chloride	BB

Sample data

Ident	R2404951-002
Sample type	Sample
Determination start	2024-06-14 23:03:48 UTC-4
Method	10-051424FAST
Dilution	200
Counter	86184
Sample Position	39
Comment 1	300.0 C
Comment 2	

Anions



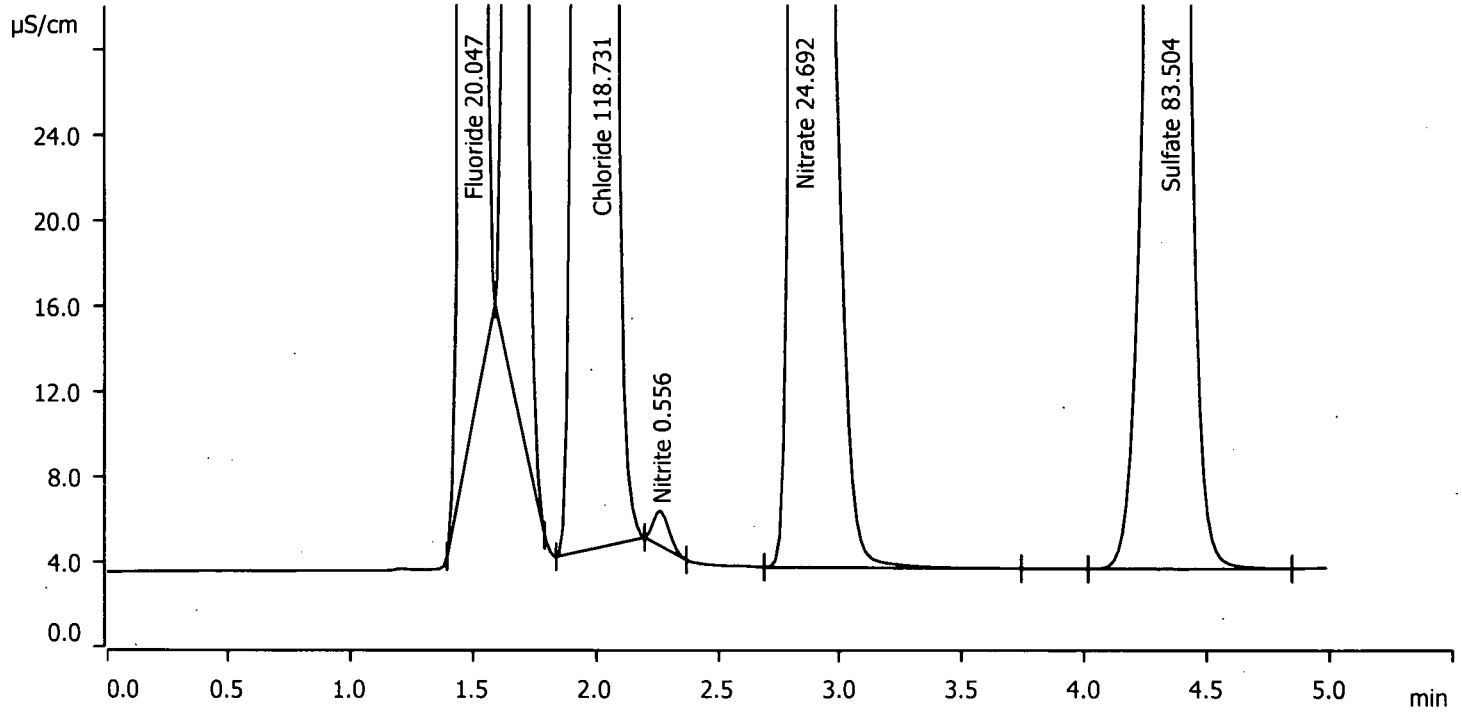
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
3	1.96	0.018	48.753	Chloride	BB

Sample data

Ident	R2404931-001 DNR
Sample type	Sample
Determination start	2024-06-14 23:10:04 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86185
Sample Position	40
Comment 1	300.0 F
Comment 2	

Anions



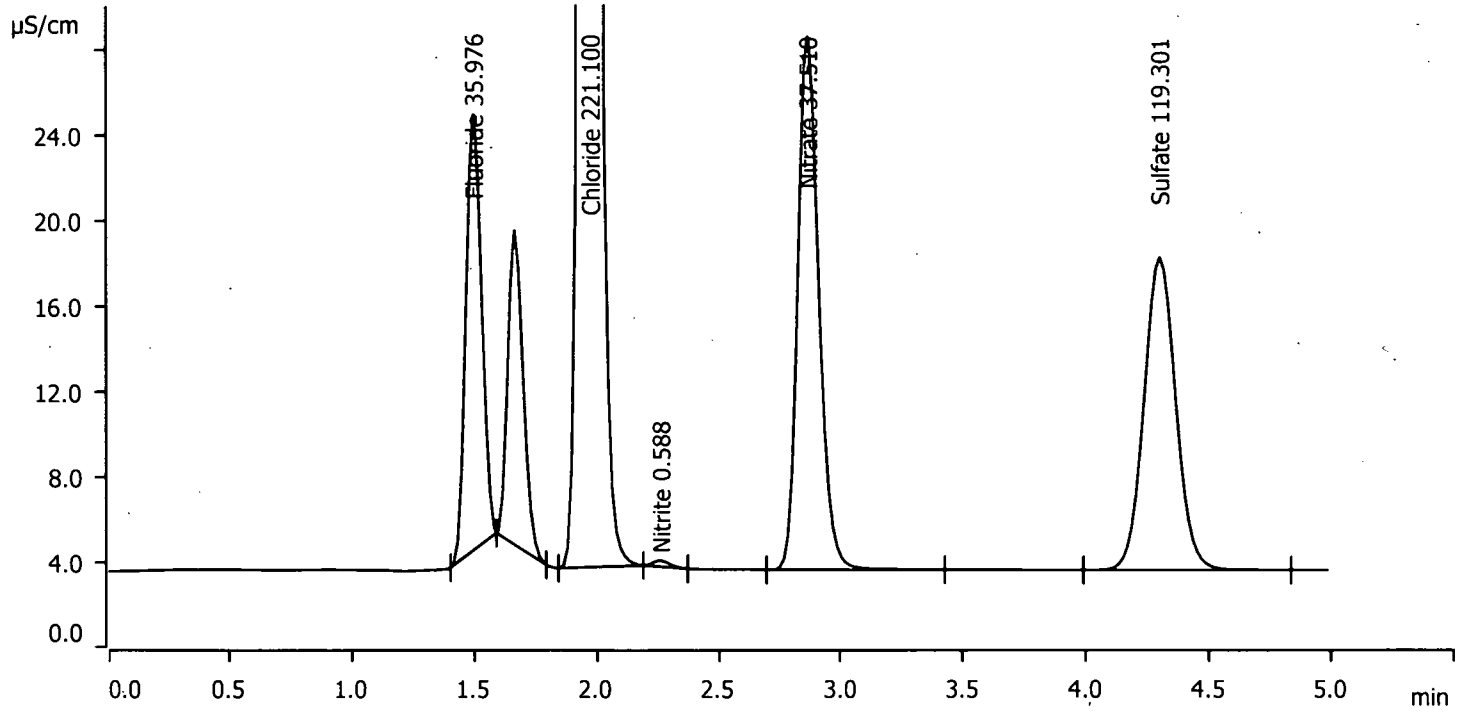
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	6.364	20.047	Fluoride	BB
3	2.02	47.531	118.731	Chloride	BB
4	2.26	0.123	0.556	Nitrite	BB
5	2.85	13.932	24.692	Nitrate	BB
6	4.35	12.643	83.504	Sulfate	BB

Sample data

Ident	R2404931-001 DNR
Sample type	Sample
Determination start	2024-06-14 23:16:21 UTC-4
Method	10-051424FAST
Dilution	5
Counter	86186
Sample Position	41
Comment 1	300.0 F
Comment 2	

Anions



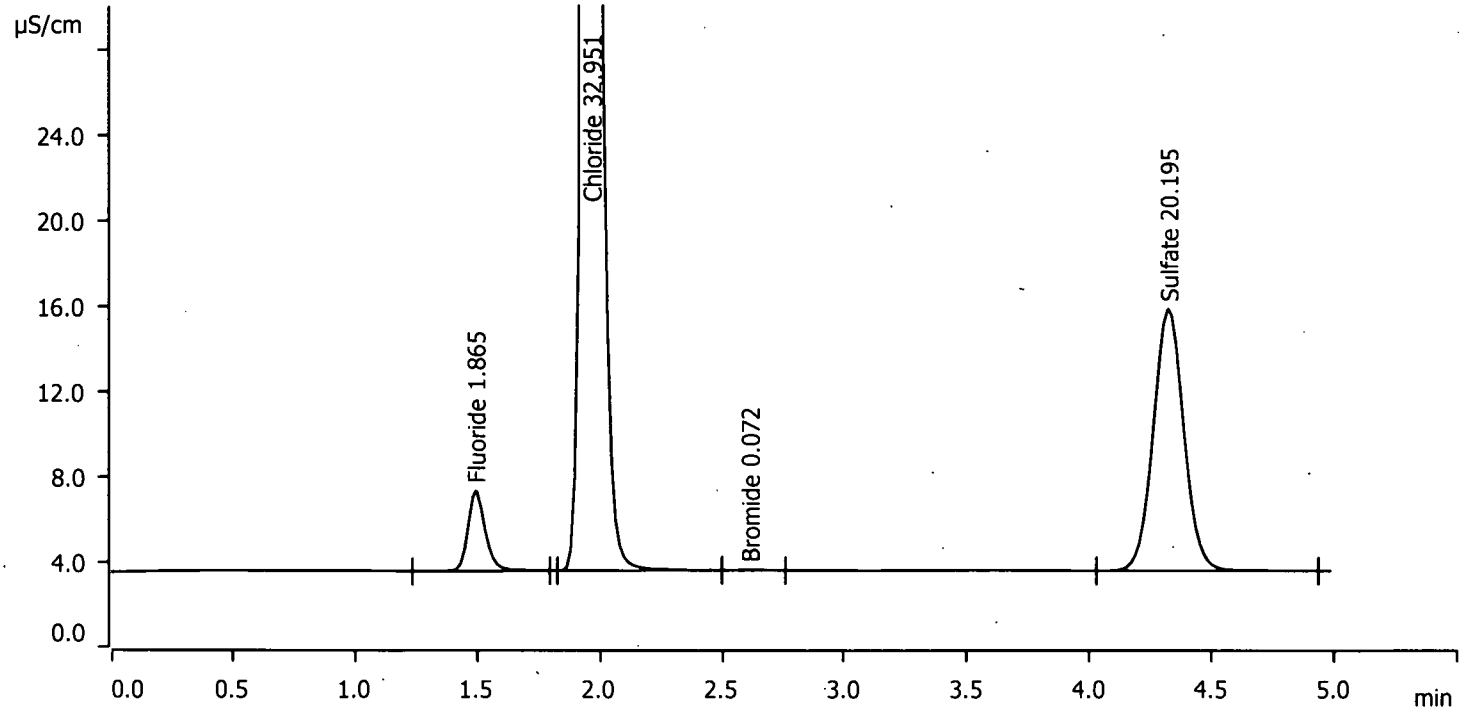
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	1.518	35.976	Fluoride	BB
3	1.98	9.085	221.100	Chloride	BB
4	2.26	0.022	0.588	Nitrite	BB
5	2.87	2.477	37.510	Nitrate	BB
6	4.30	2.197	119.301	Sulfate	BB

Sample data

Ident	R2405089-001
Sample type	Sample
Determination start	2024-06-14 23:22:38 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86187
Sample Position	42
Comment 1	300.0 F
Comment 2	

Anions



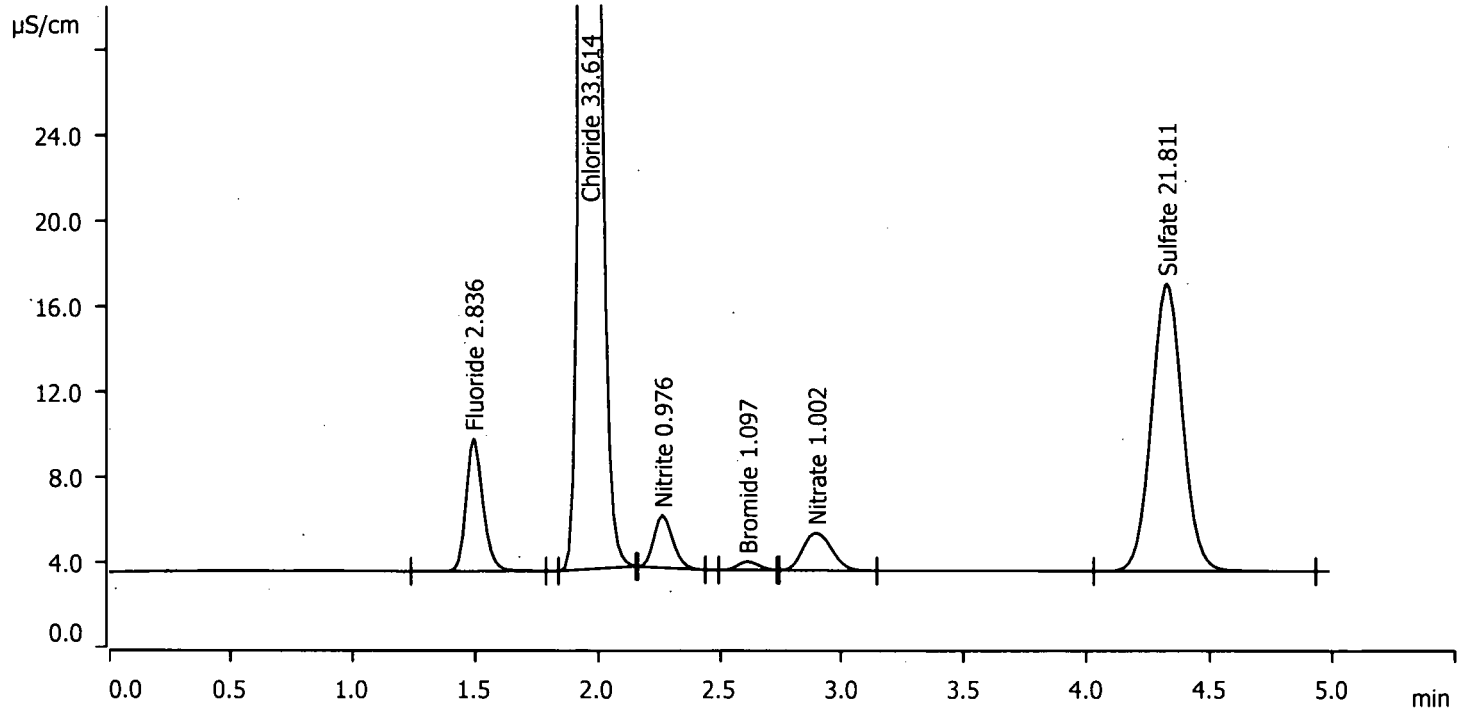
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.311	1.865	Fluoride	BB
2	1.97	5.798	32.951	Chloride	BB
3	2.61	0.003	0.072	Bromide	BB
4	4.32	1.786	20.195	Sulfate	BB

Sample data

Ident	R2405089-001 MS!
Sample type	Sample
Determination start	2024-06-14 23:28:55 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86188
Sample Position	43
Comment 1	300.0 F
Comment 2	

Anions



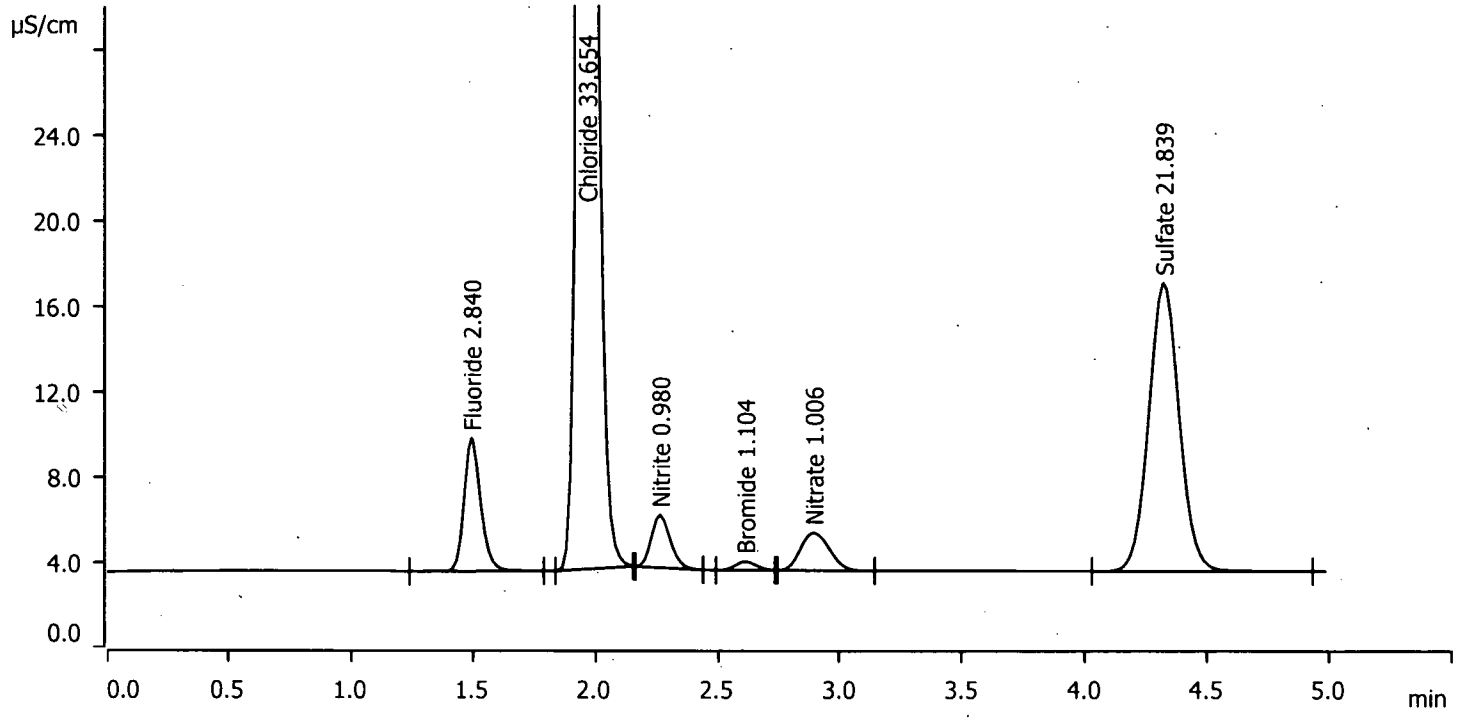
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.496	2.836	Fluoride	BB
2	1.97	5.973	33.614	Chloride	BB
3	2.27	0.222	0.976	Nitrite	BB
4	2.61	0.040	1.097	Bromide	BB
5	2.89	0.239	1.002	Nitrate	BB
6	4.32	1.964	21.811	Sulfate	BB

Sample data

Ident	R2405089-001 MSD!
Sample type	Sample
Determination start	2024-06-14 23:35:12 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86189
Sample Position	44
Comment 1	300.0 F
Comment 2	

Anions



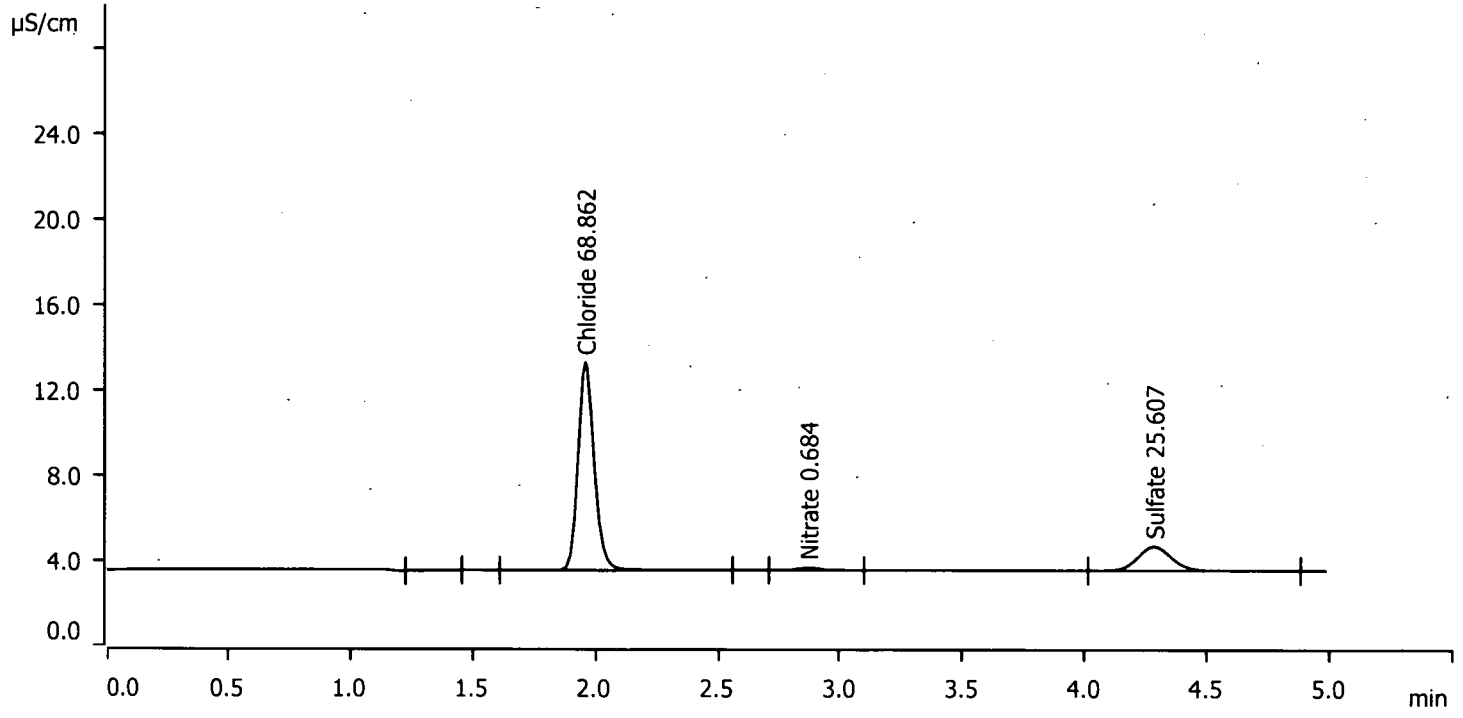
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.497	2.840	Fluoride	BB
2	1.97	5.983	33.654	Chloride	BB
3	2.27	0.223	0.980	Nitrite	BB
4	2.61	0.040	1.104	Bromide	BB
5	2.89	0.240	1.006	Nitrate	BB
6	4.32	1.967	21.839	Sulfate	BB

Sample data

Ident	R2404674-001
Sample type	Sample
Determination start	2024-06-14 23:41:29 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86190
Sample Position	45
Comment 1	300.0 S
Comment 2	

Anions



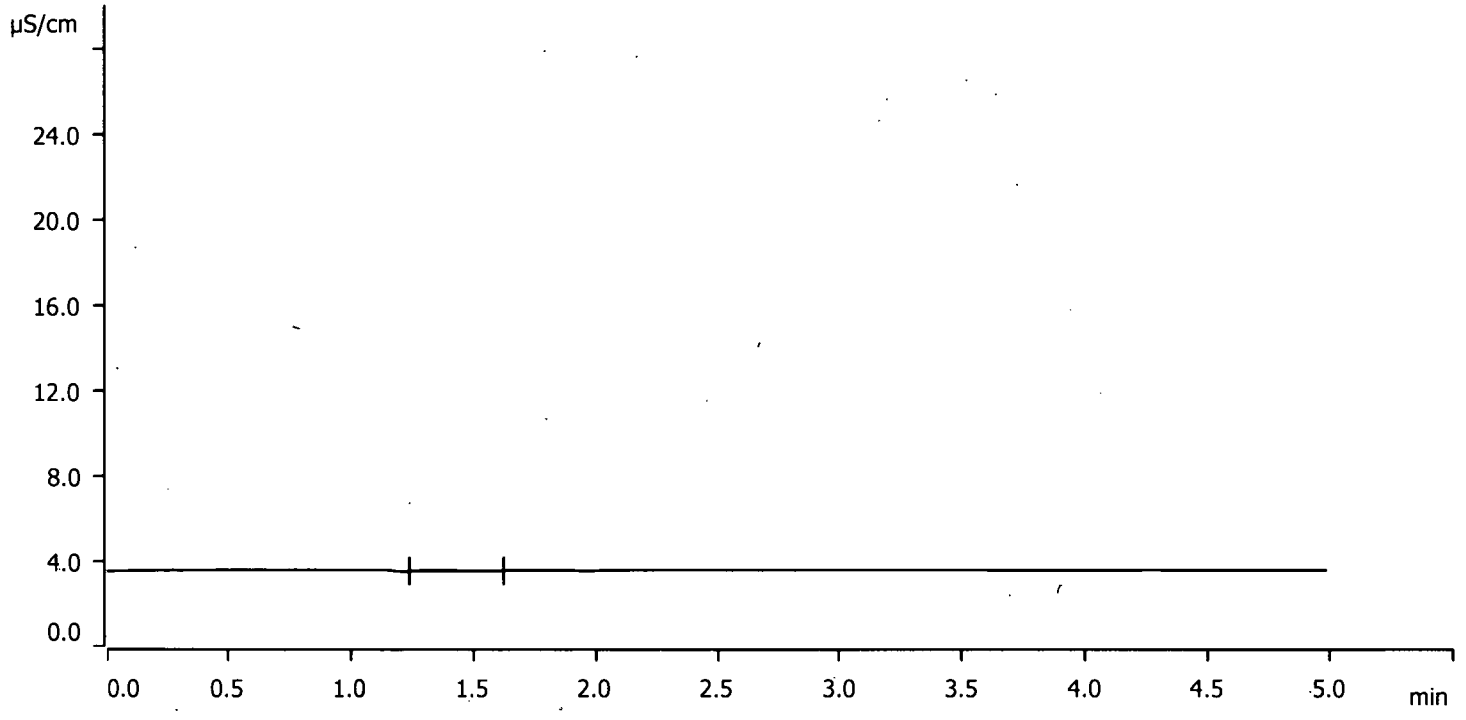
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.739	68.862	Chloride	BB
3	2.87	0.012	0.684	Nitrate	BB
4	4.29	0.182	25.607	Sulfate	BB

Sample data

Ident	R2404674-002
Sample type	Sample
Determination start	2024-06-14 23:47:49 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86191
Sample Position	46
Comment 1	300.0 S
Comment 2	

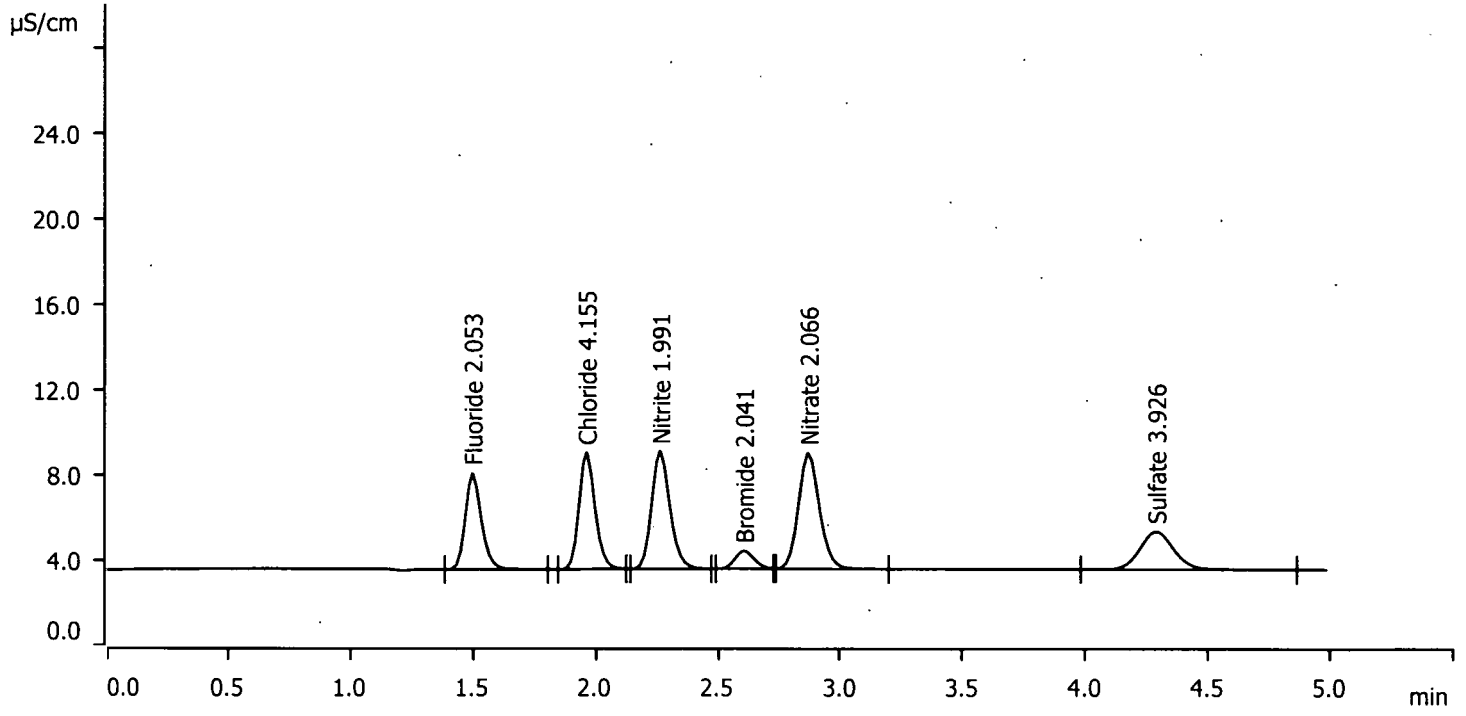
Anions



Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-06-14 23:54:05 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86192
Sample Position	47
Comment 1	300.0/9056A
Comment 2	

Anions



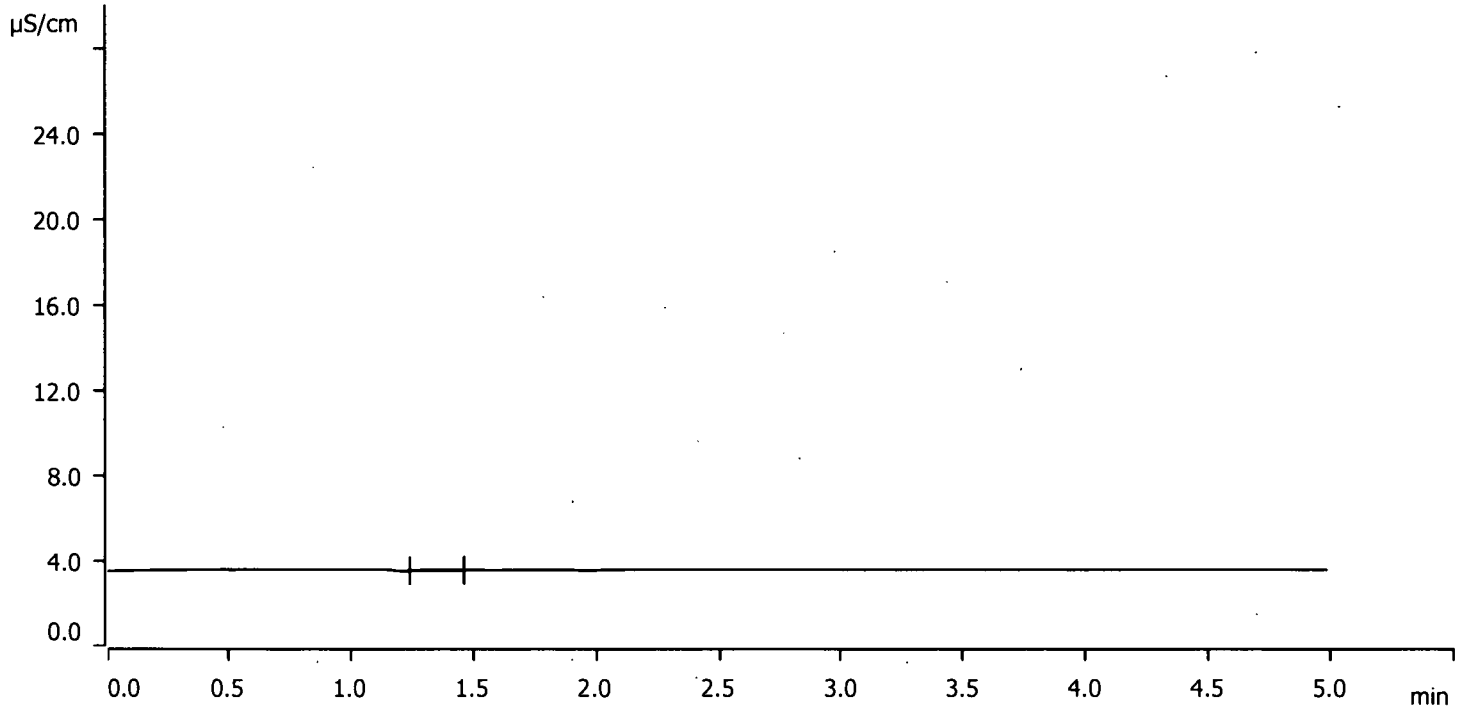
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.345	2.053	Fluoride	BB
2	1.97	0.415	4.155	Chloride	BB
3	2.27	0.478	1.991	Nitrite	BB
4	2.61	0.076	2.041	Bromide	BB
5	2.87	0.527	2.066	Nitrate	BB
6	4.29	0.284	3.926	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-06-15 00:00:23 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86193
Sample Position	48
Comment 1	300.0/9056A
Comment 2	

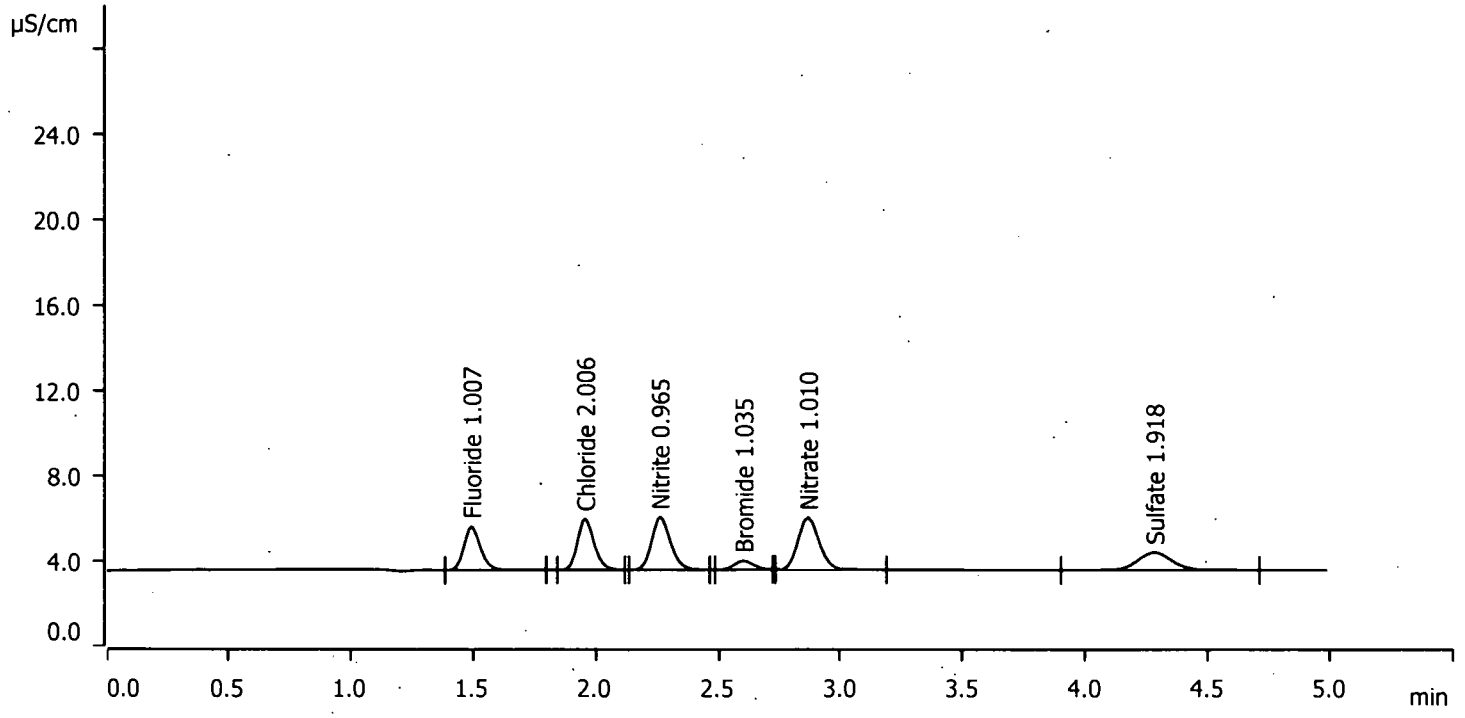
Anions



Sample data

Ident	LCS
Sample type	Check standard 2
Determination start	2024-06-15 00:06:39 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86194
Sample Position	49
Comment 1	300.0/9056A
Comment 2	

Anions



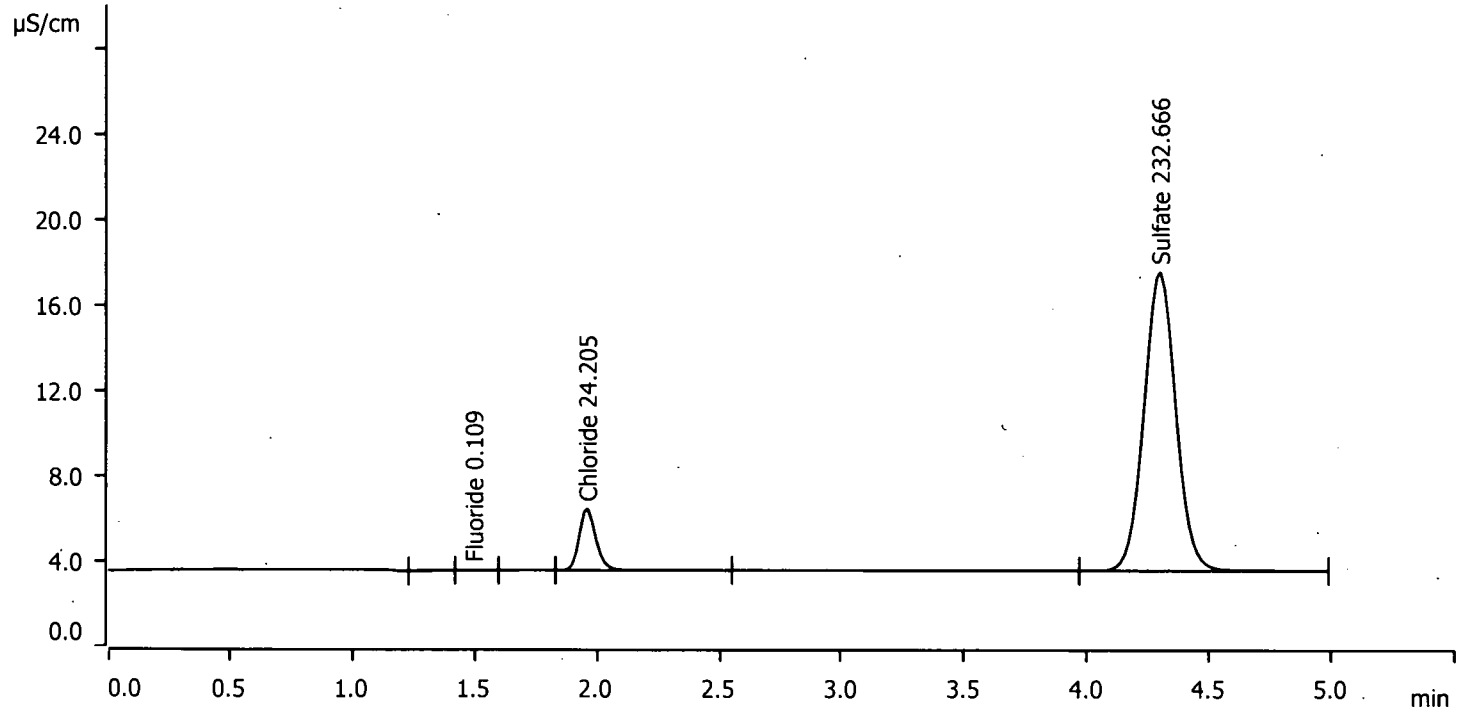
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.160	1.007	Fluoride	BB
2	1.96	0.187	2.006	Chloride	BB
3	2.26	0.220	0.965	Nitrite	BB
4	2.60	0.037	1.035	Bromide	BB
5	2.87	0.241	1.010	Nitrate	BB
6	4.28	0.135	1.918	Sulfate	BB

Sample data

Ident	R2404674-004 DNR
Sample type	Sample
Determination start	2024-06-15 00:12:56 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86195
Sample Position	50
Comment 1	300.0 S
Comment 2	

Anions



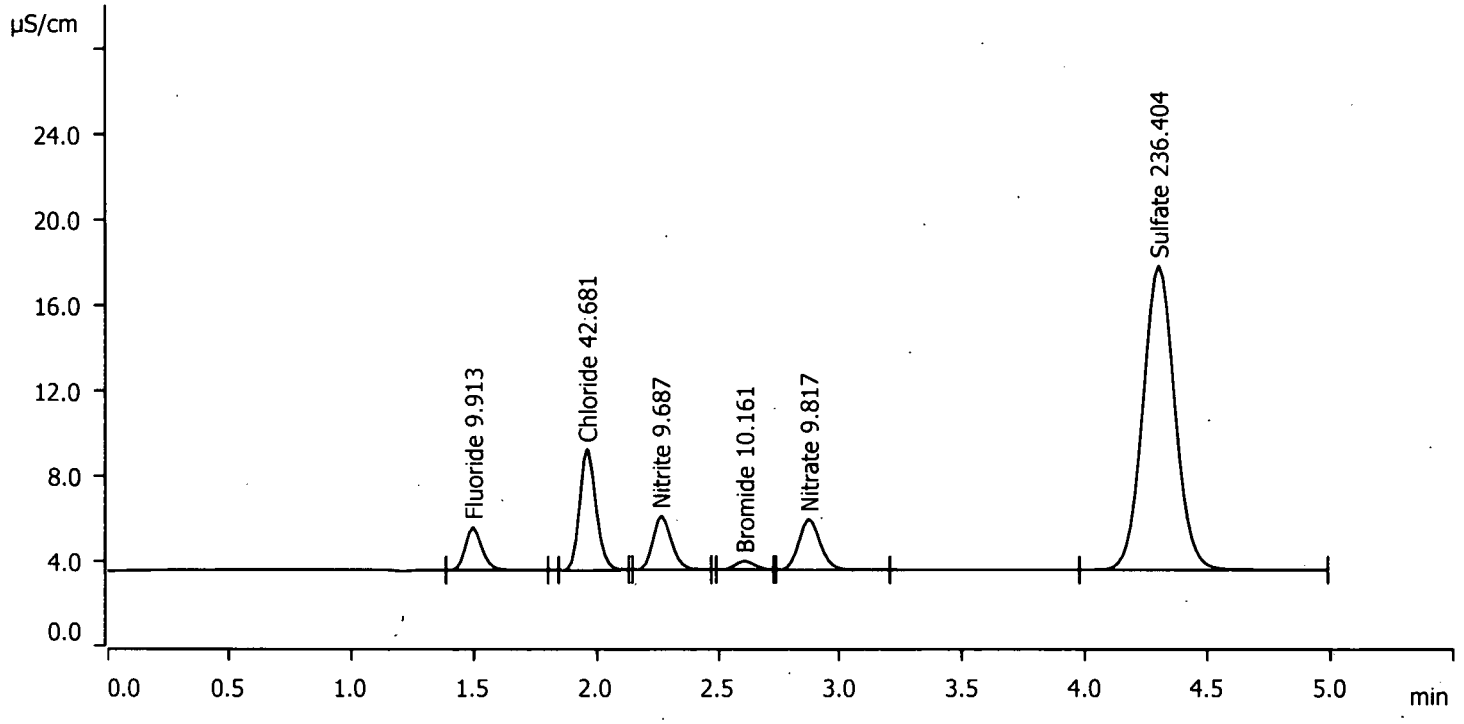
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.50	0.001	0.109	Fluoride	BB
3	1.96	0.229	24.205	Chloride	BB
4	4.30	2.128	232.666	Sulfate	BB

Sample data

Ident	R2404674-004 MS DNR
Sample type	Sample
Determination start	2024-06-15 00:19:13 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86196
Sample Position	51
Comment 1	300.0 S
Comment 2	

Anions



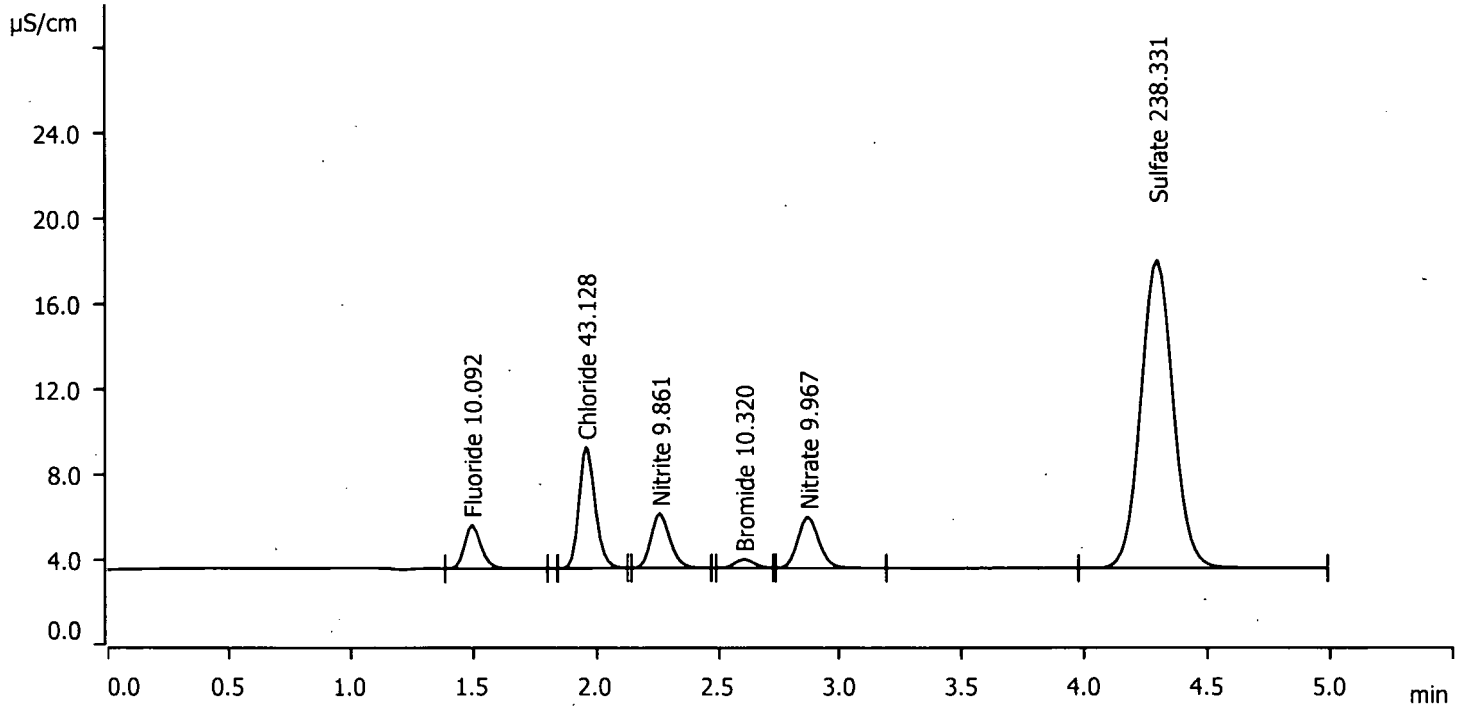
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.158	9.913	Fluoride	BB
2	1.96	0.427	42.681	Chloride	BB
3	2.27	0.221	9.687	Nitrite	BB
4	2.61	0.037	10.161	Bromide	BB
5	2.87	0.234	9.817	Nitrate	BB
6	4.30	2.171	236.404	Sulfate	BB

Sample data

Ident	R2404674-004 MSD DNR
Sample type	Sample
Determination start	2024-06-15 00:25:30 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86197
Sample Position	52
Comment 1	300.0 S
Comment 2	

Anions



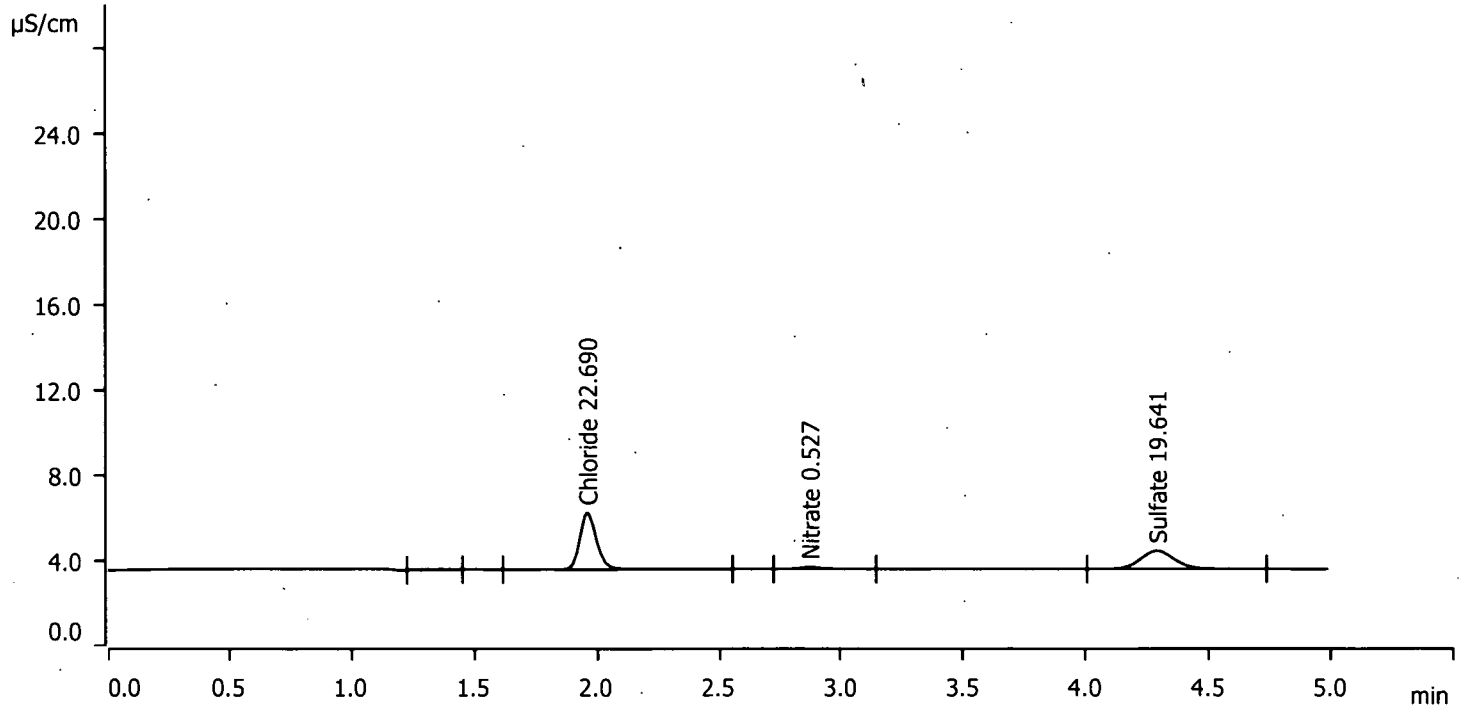
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.161	10.092	Fluoride	BB
2	1.96	0.432	43.128	Chloride	BB
3	2.26	0.225	9.861	Nitrite	BB
4	2.61	0.037	10.320	Bromide	BB
5	2.87	0.238	9.967	Nitrate	BB
6	4.30	2.194	238.331	Sulfate	BB

Sample data

Ident	R2404674-005
Sample type	Sample
Determination start	2024-06-15 00:31:47 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86198
Sample Position	53
Comment 1	300.0 S
Comment 2	

Anions



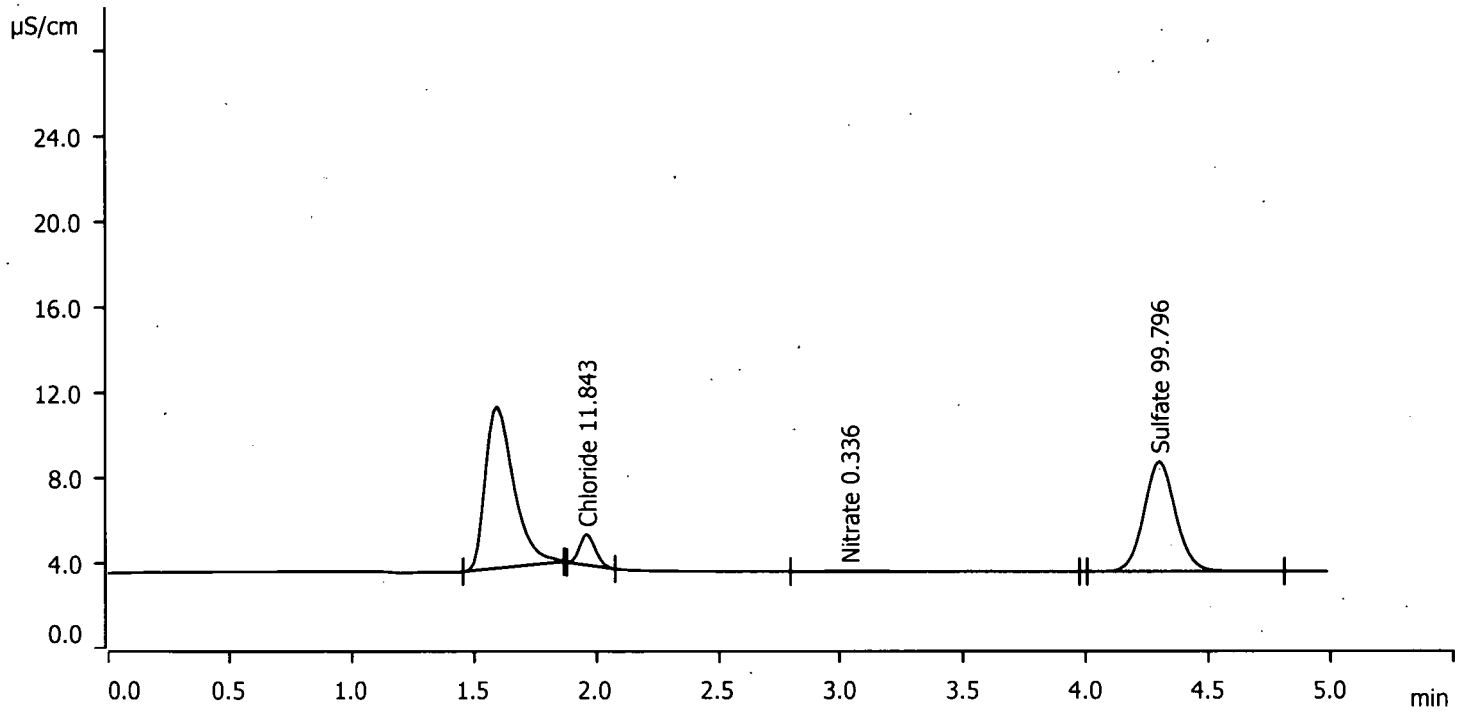
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.213	22.690	Chloride	BB
3	2.87	0.009	0.527	Nitrate	BB
4	4.29	0.138	19.641	Sulfate	BB

Sample data

Ident	R2404674-006
Sample type	Sample
Determination start	2024-06-15 00:38:04 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86199
Sample Position	54
Comment 1	300.0 S
Comment 2	

Anions



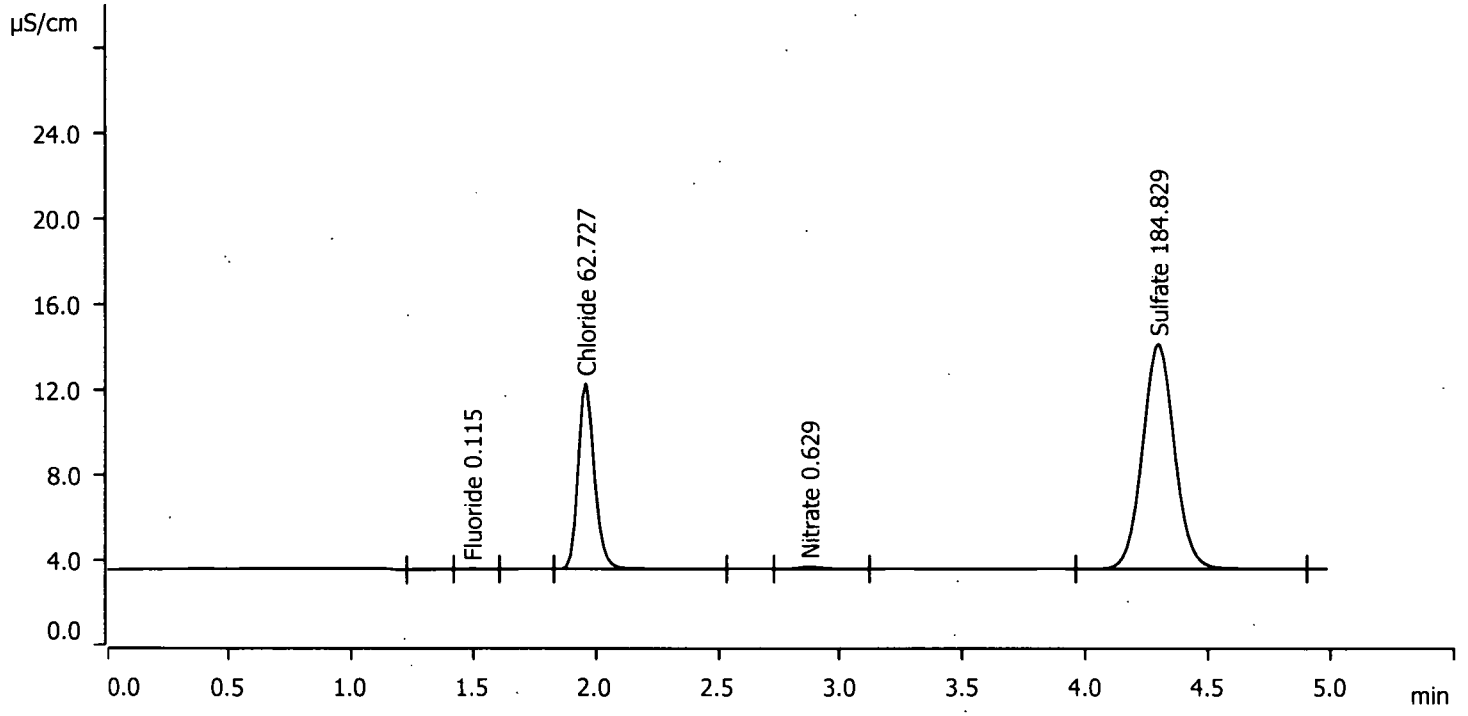
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.106	11.843	Chloride	BB
3	3.04	0.004	0.336	Nitrate	BBI
4	4.30	0.781	99.796	Sulfate	BB

Sample data

Ident	R2404674-007 DNR
Sample type	Sample
Determination start	2024-06-15 00:44:21 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86200
Sample Position	55
Comment 1	300.0 S
Comment 2	

Anions



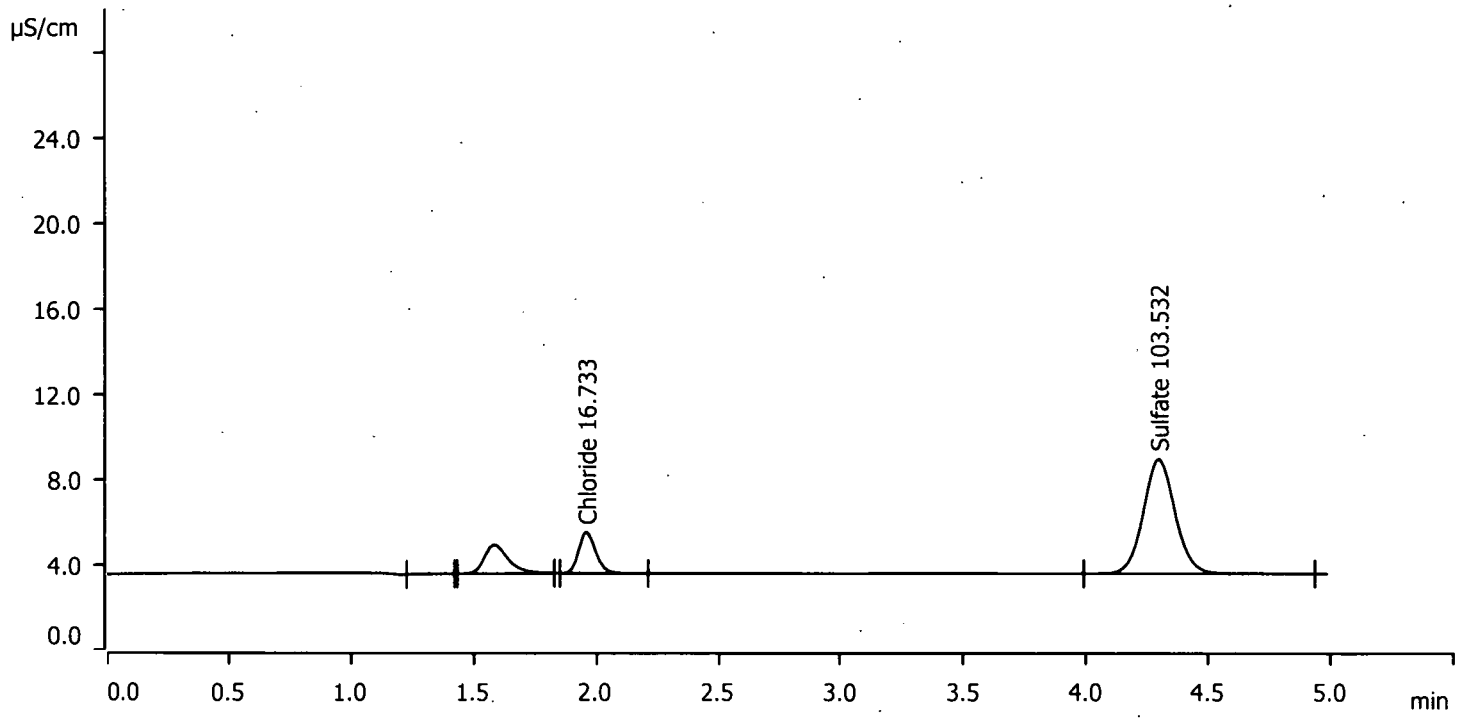
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.50	0.001	0.115	Fluoride	BB
3	1.96	0.663	62.727	Chloride	BB
4	2.87	0.011	0.629	Nitrate	BB
5	4.30	1.603	184.829	Sulfate	BB

Sample data

Ident	R2404674-008 DNR
Sample type	Sample
Determination start	2024-06-15 00:50:38 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86201
Sample Position	56
Comment 1	300.0 S
Comment 2	

Anions



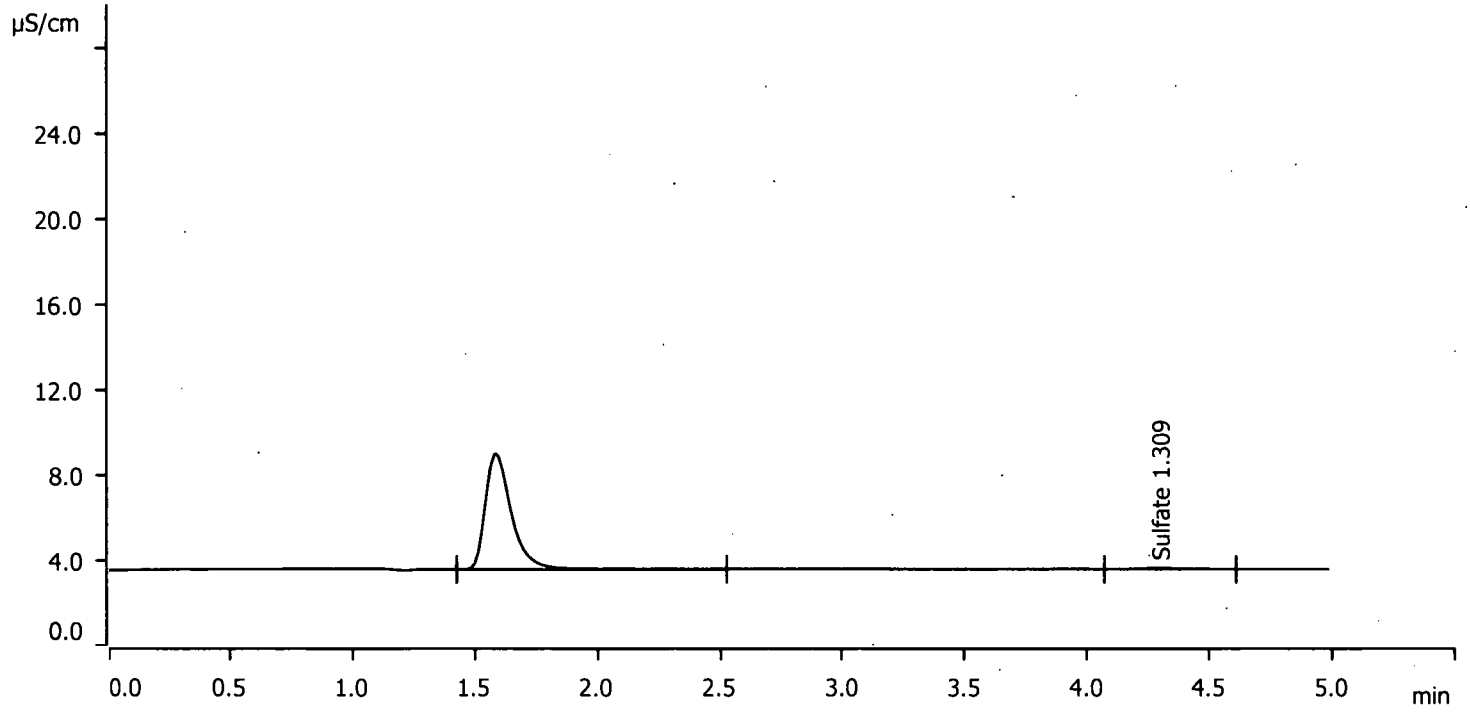
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
3	1.96	0.154	16.733	Chloride	BB
4	4.30	0.814	103.532	Sulfate	BB

Sample data

Ident	R2404674-009
Sample type	Sample
Determination start	2024-06-15 00:56:55 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86202
Sample Position	57
Comment 1	300.0 S
Comment 2	

Anions



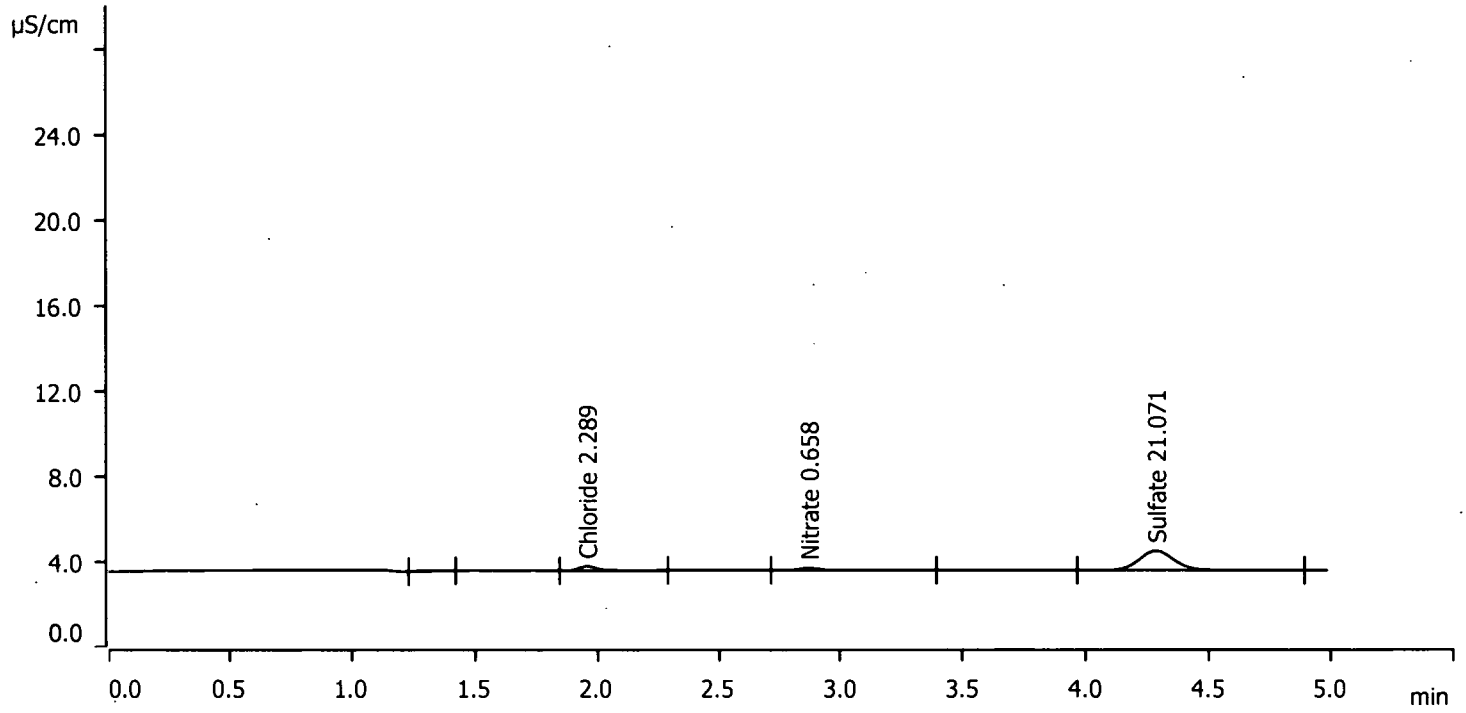
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	4.30	0.009	1.309	Sulfate	BB

Sample data

Ident	R2404674-010
Sample type	Sample
Determination start	2024-06-15 01:03:11 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86203
Sample Position	58
Comment 1	300.0 S
Comment 2	

Anions



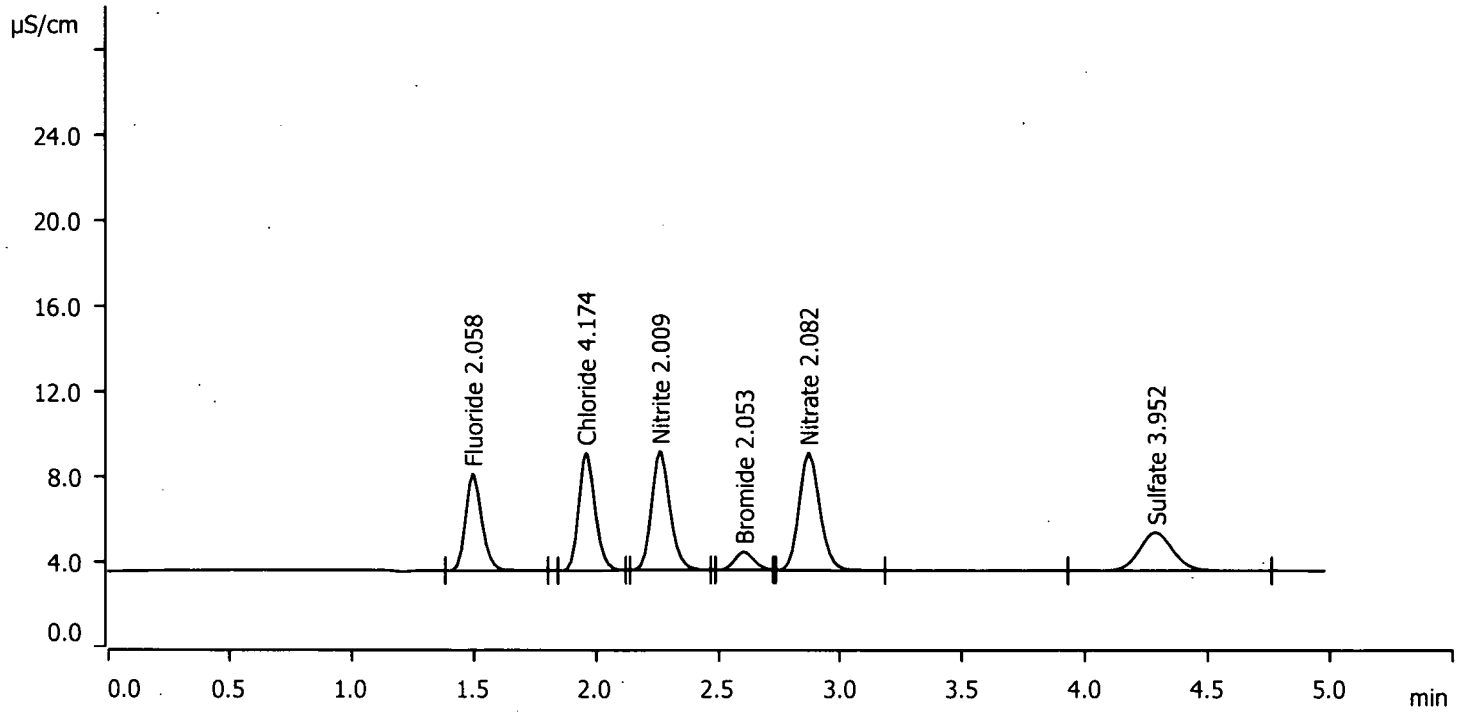
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.017	2.289	Chloride	BB
3	2.87	0.012	0.658	Nitrate	BB
4	4.28	0.149	21.071	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-06-15 01:09:27 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86204
Sample Position	59
Comment 1	300.0/9056A
Comment 2	

Anions



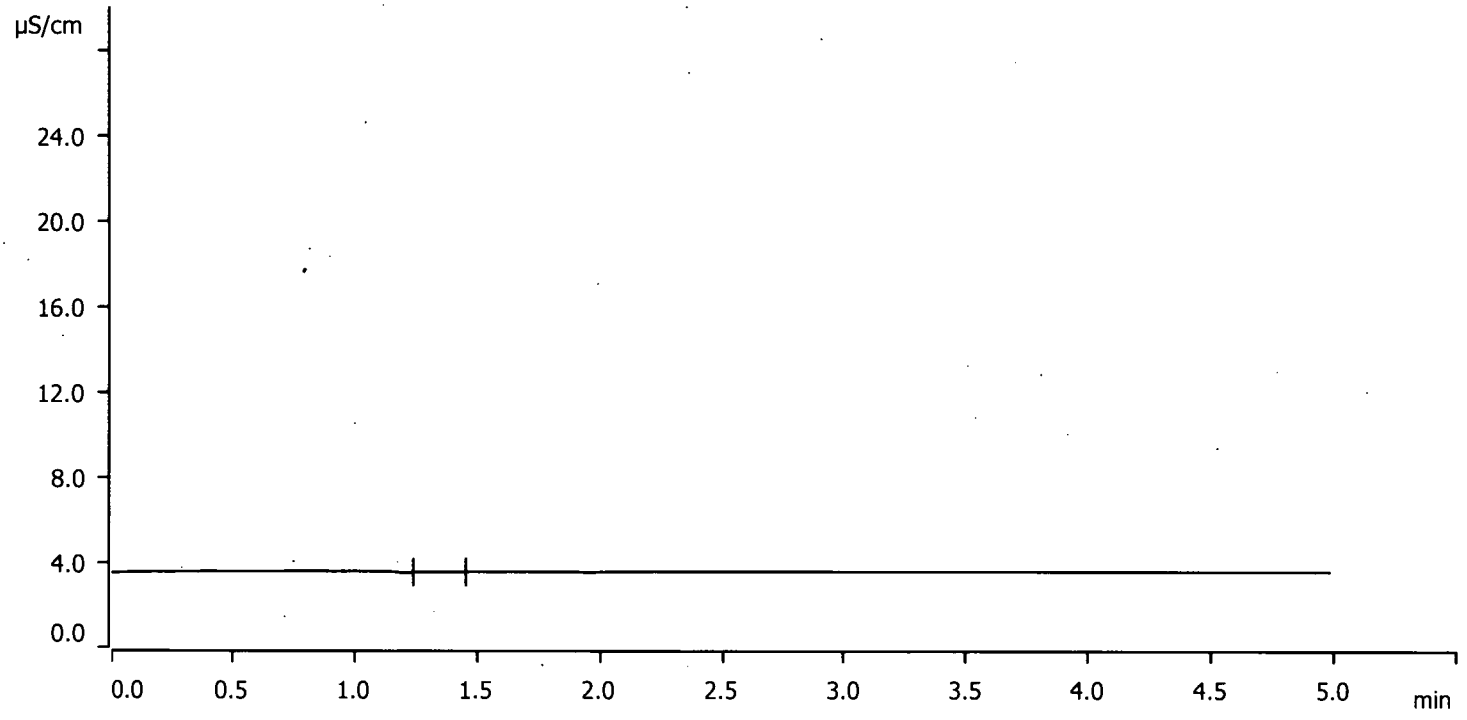
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.346	2.058	Fluoride	BB
2	1.96	0.417	4.174	Chloride	BB
3	2.26	0.482	2.009	Nitrite	BB
4	2.61	0.076	2.053	Bromide	BB
5	2.87	0.531	2.082	Nitrate	BB
6	4.29	0.286	3.952	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-06-15 01:15:44 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86205
Sample Position	60
Comment 1	300.0/9056A
Comment 2	

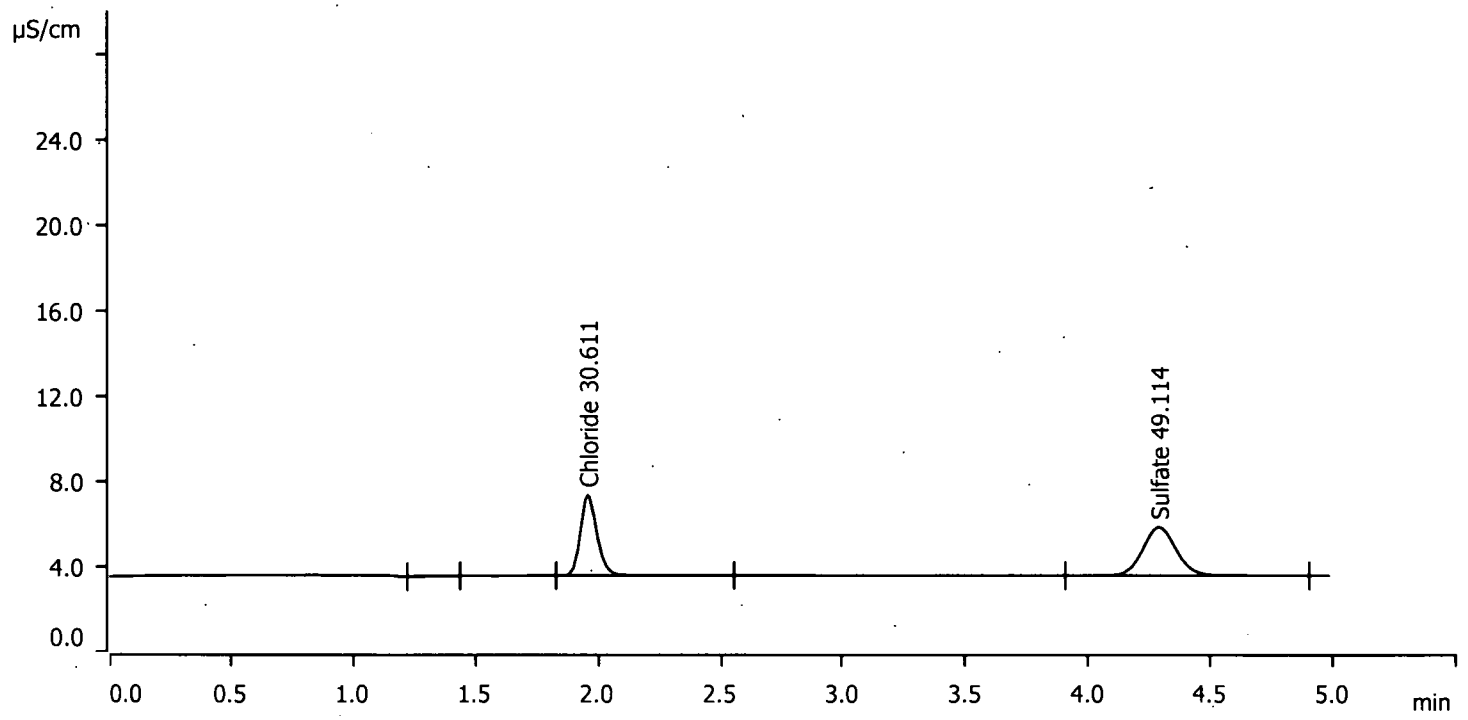
Anions



Sample data

Ident	R2404674-011
Sample type	Sample
Determination start	2024-06-15 01:22:00 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86206
Sample Position	61
Comment 1	300.0 S
Comment 2	

Anions



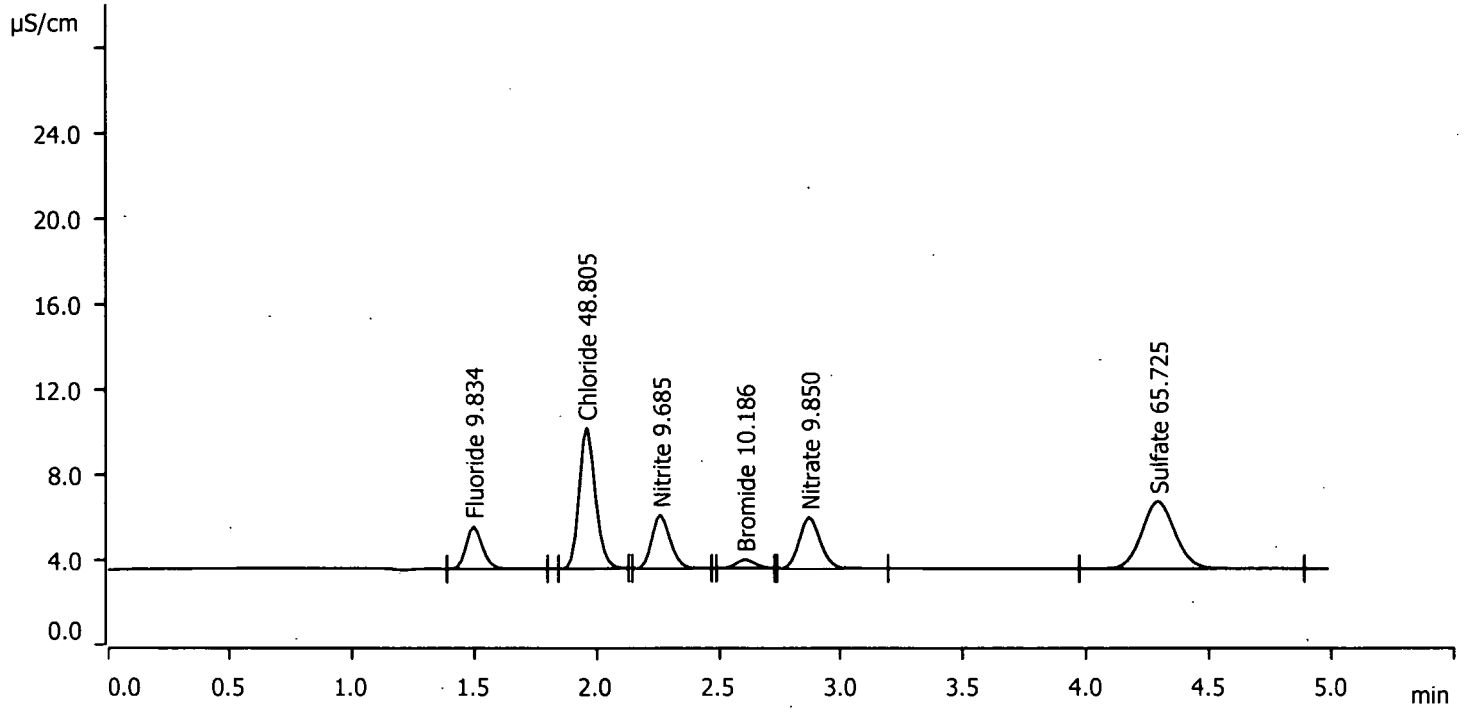
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.296	30.611	Chloride	BB
3	4.29	0.360	49.114	Sulfate	BB

Sample data

Ident	R2404674-011 MS!
Sample type	Sample
Determination start	2024-06-15 01:28:17 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86207
Sample Position	62
Comment 1	300.0 S
Comment 2	

Anions



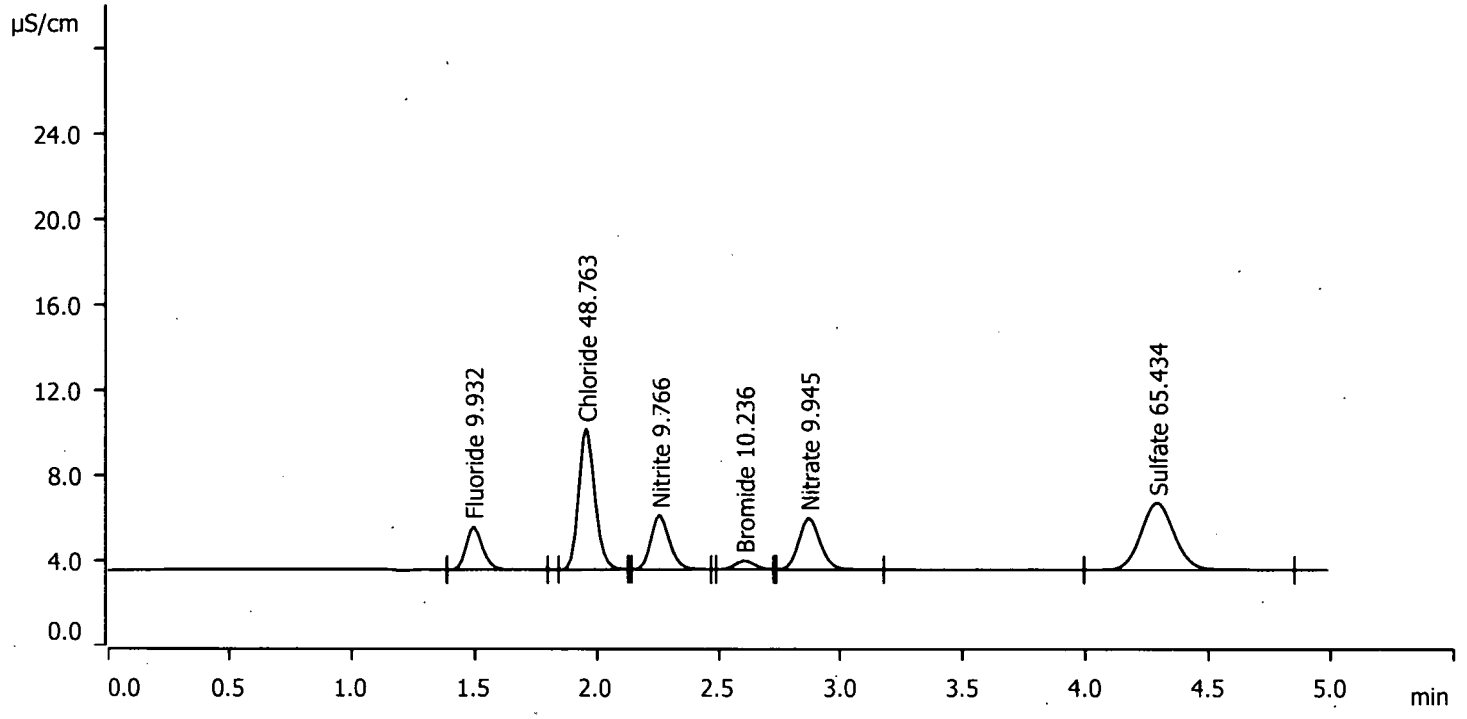
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.156	9.834	Fluoride	BB
2	1.96	0.497	48.805	Chloride	BB
3	2.27	0.221	9.685	Nitrite	BB
4	2.61	0.037	10.186	Bromide	BB
5	2.87	0.235	9.850	Nitrate	BB
6	4.29	0.492	65.725	Sulfate	BB

Sample data

Ident	R2404674-011 MSD!
Sample type	Sample
Determination start	2024-06-15 01:34:34 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86208
Sample Position	63
Comment 1	300.0 S
Comment 2	

Anions



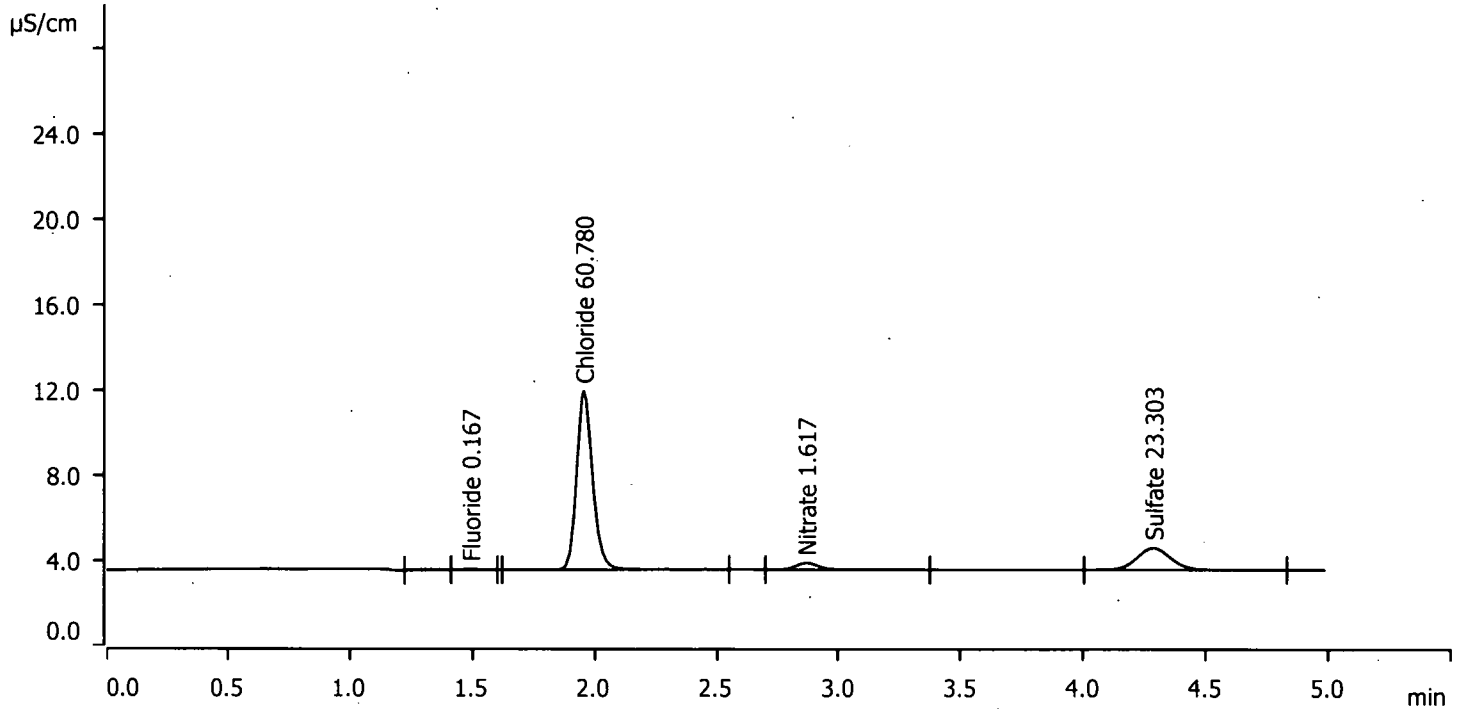
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.158	9.932	Fluoride	BB
2	1.96	0.496	48.763	Chloride	BB
3	2.26	0.223	9.766	Nitrite	BB
4	2.61	0.037	10.236	Bromide	BB
5	2.87	0.237	9.945	Nitrate	BB
6	4.29	0.490	65.434	Sulfate	BB

Sample data

Ident	R2404674-012
Sample type	Sample
Determination start	2024-06-15 01:40:57 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86209
Sample Position	64
Comment 1	300.0 S
Comment 2	NOT PULLING IN LIMS

Anions



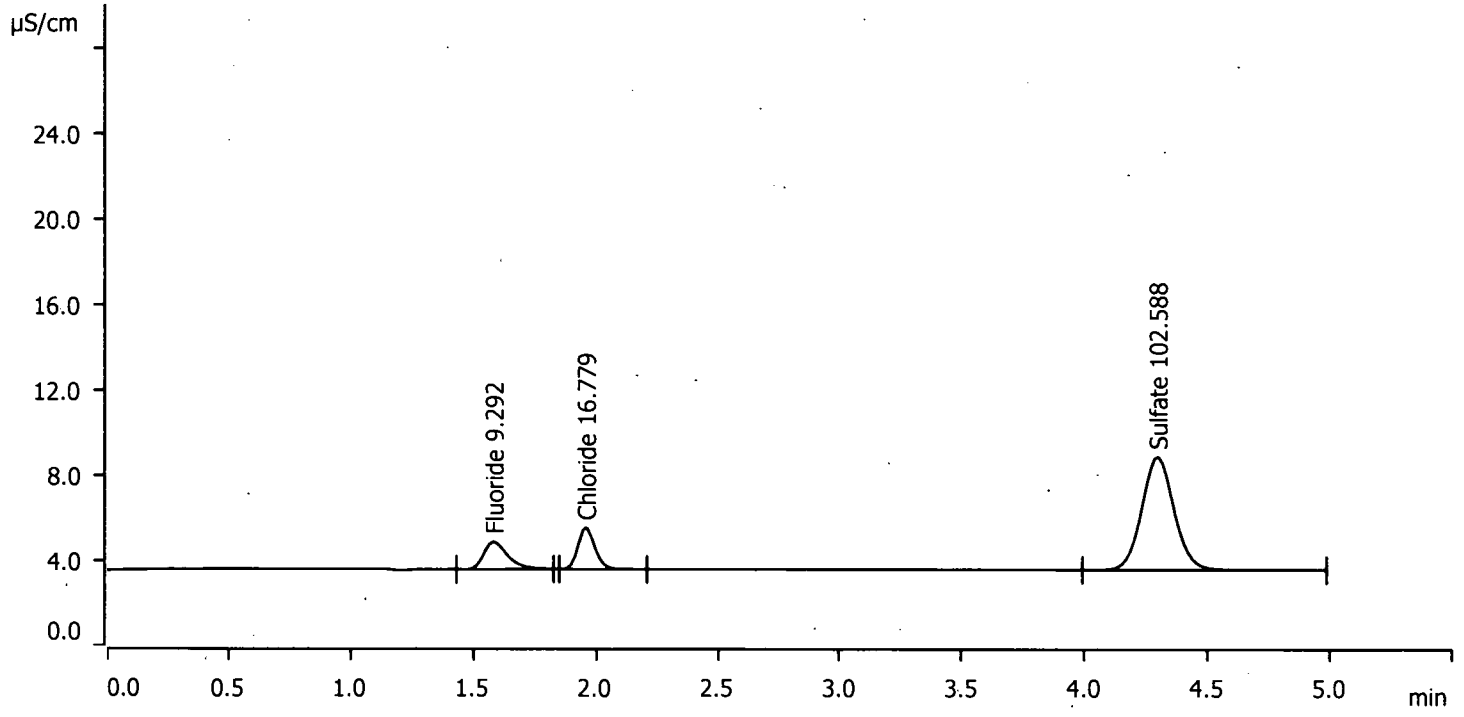
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.50	0.002	0.167	Fluoride	BB
3	1.96	0.639	60.780	Chloride	BB
4	2.87	0.034	1.617	Nitrate	BB
5	4.28	0.165	23.303	Sulfate	BB

Sample data

Ident	R2404674-013
Sample type	Sample
Determination start	2024-06-15 01:47:14 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86210
Sample Position	65
Comment 1	300.0 S
Comment 2	

Anions



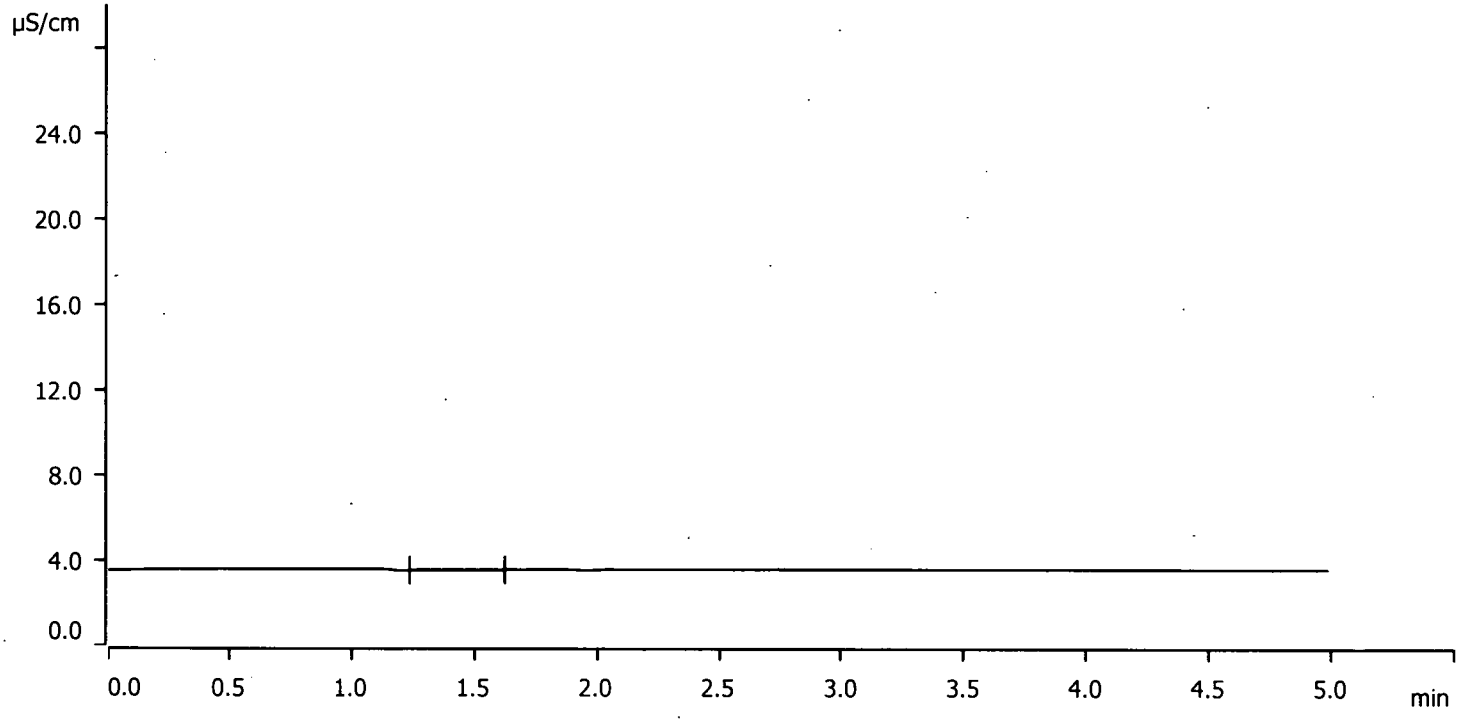
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.59	0.147	9.292	Fluoride	BB
2	1.96	0.154	16.779	Chloride	BB
3	4.30	0.806	102.588	Sulfate	BB

Sample data

Ident	R2404674-014
Sample type	Sample
Determination start	2024-06-15 01:53:30 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86211
Sample Position	66
Comment 1	300.0 S
Comment 2	

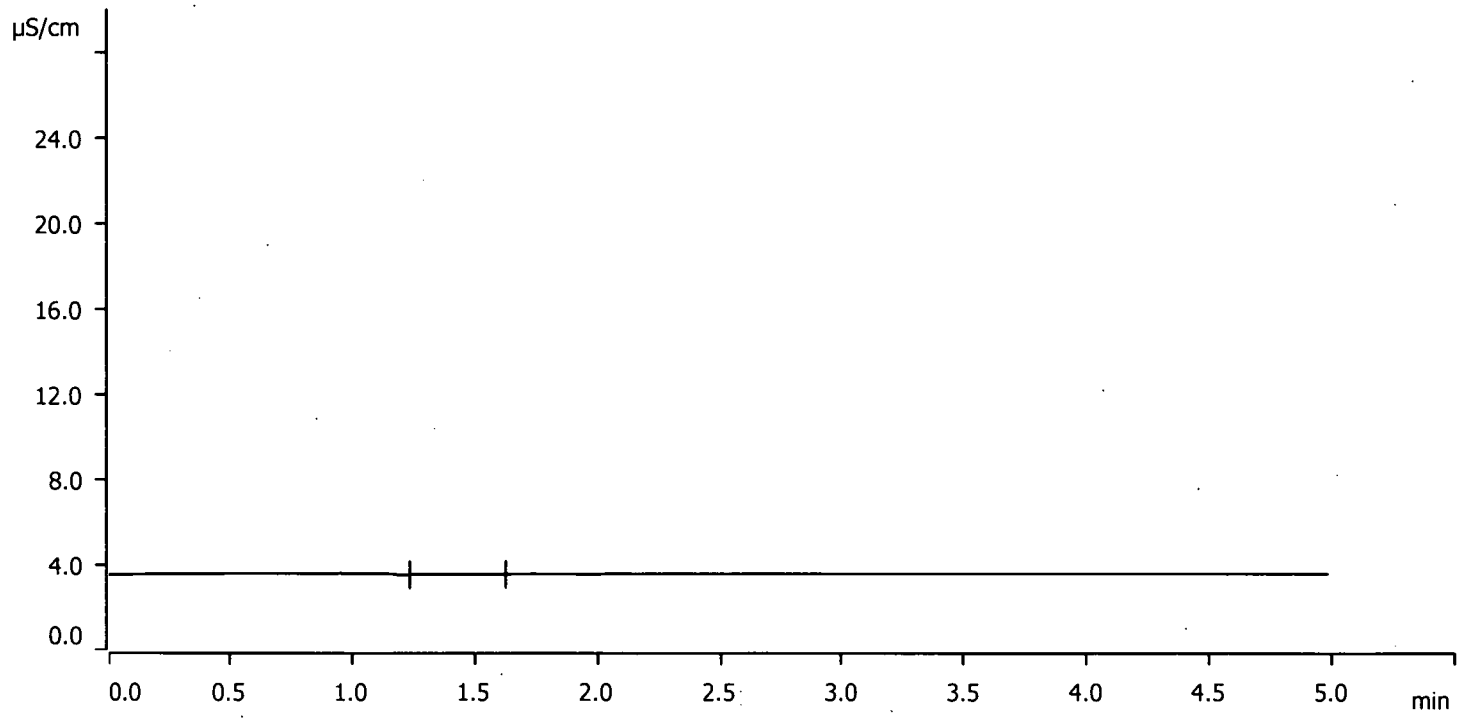
Anions



Sample data

Ident	R2404674-016
Sample type	Sample
Determination start	2024-06-15 01:59:46 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86212
Sample Position	67
Comment 1	300.0 S
Comment 2	

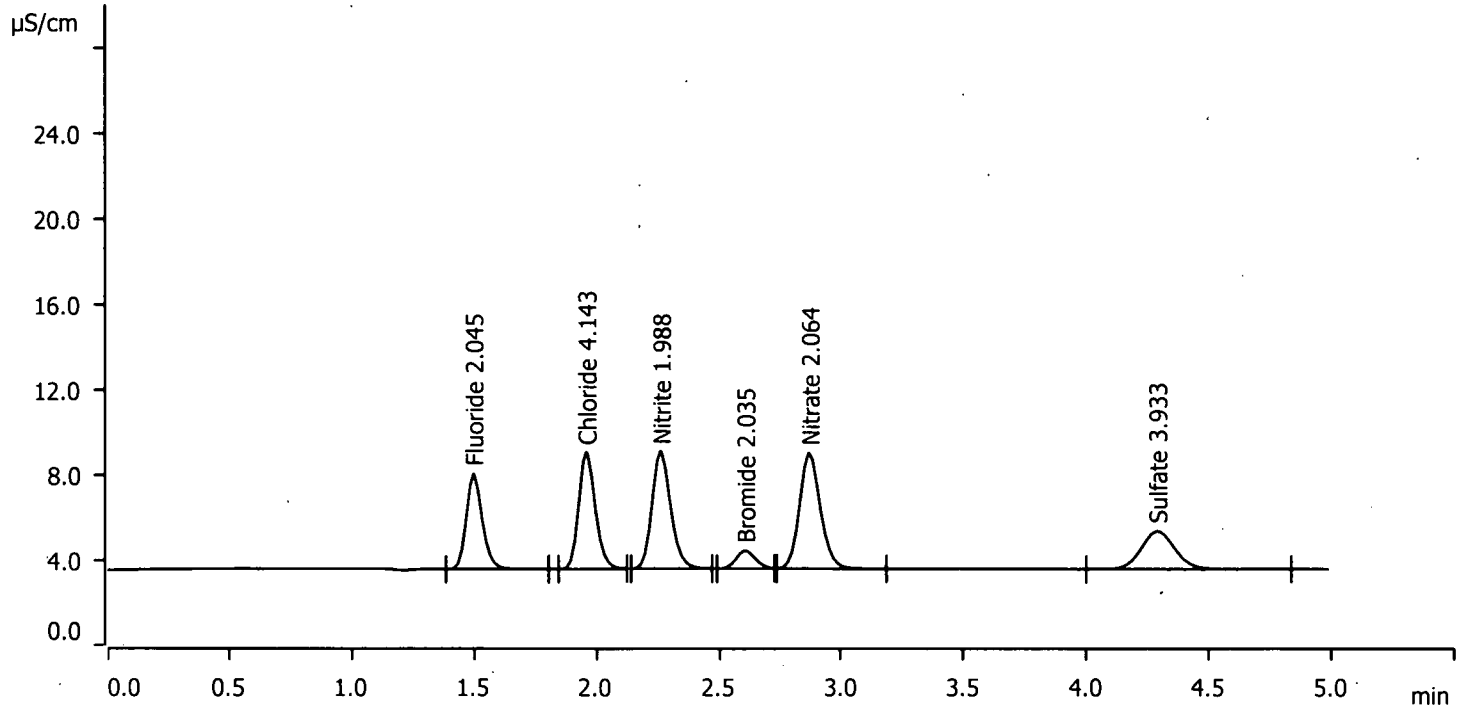
Anions



Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-06-15 02:06:04 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86213
Sample Position	68
Comment 1	300.0/9056A
Comment 2	

Anions



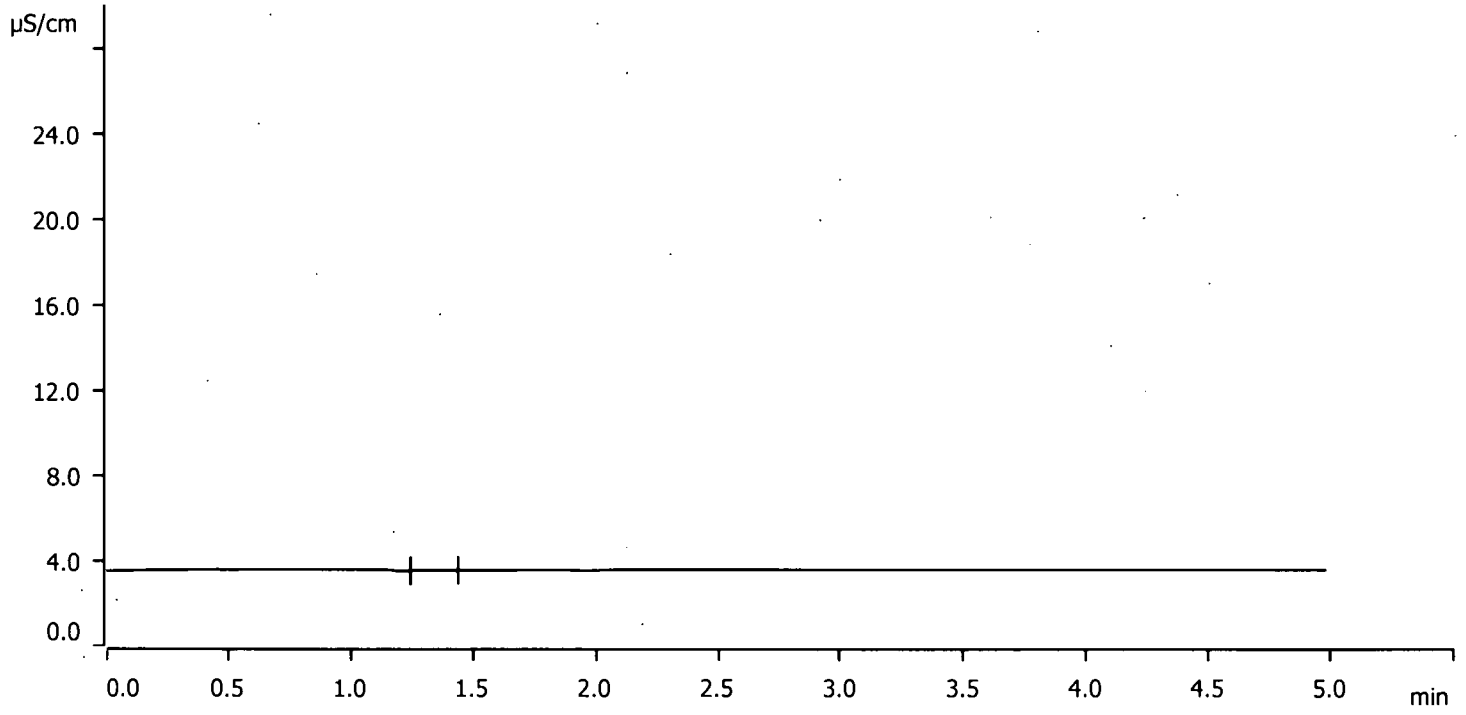
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.344	2.045	Fluoride	BB
2	1.96	0.413	4.143	Chloride	BB
3	2.27	0.477	1.988	Nitrite	BB
4	2.61	0.075	2.035	Bromide	BB
5	2.87	0.527	2.064	Nitrate	BB
6	4.29	0.284	3.933	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-06-15 02:12:21 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86214
Sample Position	69
Comment 1	300.0/9056A
Comment 2	

Anions



ALS Environmental

1575 Jefferson Road, Building 300, Suite 360, Rochester, New York 14623

Ion Chromatography Cover Sheet

Instrument: Metrohm IC 930 (IC#10)

Column: Dionex IonPac AS22-Fast (Installed 04/23/2024)

Curve Date: 05/14/24 **Loop size: 25 uL Loop**

Analyst: RAW/KW **Analysis Date:** 6/14/24

Balance ID for Soil Preparation: NA

Is copy of LCS attached to run? (YES) / NO

Method Filename: 10-051424FAST

Standards Prep Dates & Log ID's:

Std Type	*Prep Date*	*Log ID*		*Std Type*	*Prep Date*	*Log ID*
Calibration Intermediate	04/23/2024	234759		Working Calibration Stds	05/14/2024	WC236013M
LCS / MS Intermediate	04/23/2024	234759		Working LCS/MS Standard	06/14/2024	WC236093H
ICV Intermediate	05/14/2024	235191		Working ICV Standard	05/14/2024	WC236034A
CCV Intermediate	05/14/2024	235191		Working CCV Standard	06/14/2024	WC236035H

Original Retention Times for this method are based on Standard 6 and are as follows:

Fluoride: 1.51	Bromide: 2.67
Chloride: 2.00	Nitrate: 2.95
Nitrite: 2.31	Sulfate: 4.48

Additional Comments: Column Serial Number: 231214122
Linear Range Verification (High Standard) Analyzed: 03/09/2024 – Due Every Six Months

Pipets: Chrome, Bottom
Disposable Pipet ID: (Fisher) 26023005

Eluent Stock (100x): 235121
Suppressor Stock (5x): 235047

LCS Prep

(Stocks delivered using volumetric glassware and brought to volume with DI. LCS expires after 7 days; if NO_2 is needed, LCS must be prepared daily.)

(MS prepared fresh daily using same volume of intermediate stock added to 100mLs sample. MS not prepared volumetrically.)

Analyte	Calibration Intermediate Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst / Date Prepped	Lot ID	Exp. Date	Matrix H_2SO_4 / NaOH / DI	H_2SO_4 / NaOH Lot #
F	234759	50	2.0	200	1.0	~~KW~~ 6/6/24	A	6/13/24	DI	—
Cl		100			2.0	KW 6/7/24	B	6/14/24	DI	—
NO_2		50			1.0	KW 6/8/24	C	6/15/24	DI	—
Br		50			1.0	KW 6/10/24	D	6/17/24	DI	—
NO_3		50			1.0	KW 6/11/24	E	6/18/24	DI	—
OPO_4		50			1.0	KW 6/12/24	F	6/19/24	DI	—
SO_4		100			2.0	KW 6/13/24	G	6/20/24	DI	—
						KW 6/14/24	H	6/21/24	DI	—
						KW 6/16/24	I	6/23/24	DI	—
						KW 6/17/24	J	6/24/24	DI	—
							K			
							L			
							M			
							N			
							O			
							P			
							Q			
							R			

ICV / CCV PREP

(A 1:1 dilution of the Reference Intermediate Stock is done daily.)

Analyte	ICV / CCV Intermediate Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst / Date Prepped	Lot ID	Exp. Date	Matrix H_2SO_4 / NaOH / DI	H_2SO_4 / NaOH Lot #
F	235191	4.00	5.0	10.0	2.00	KW 6/6/24	A	6/7/24	DI	—
Cl		8.00			4.00	KW 6/7/24 6/7/24	B	6/8/24 KW 6/9 KW 6/7/24	DI	—
NO_2		4.00			2.00	KW KW 6/8/24	C	6/9/24	DI	—
Br		4.00			2.00	KW 6/10/24	D	6/11/24	DI	—
NO_3		4.00			2.00	KW 6/11/24	E	6/12/24	DI	—
OPO_4		4.00			2.00	KW 6/12/24	F	6/13/24	DI	—
SO_4		8.00			4.00	KW 6/13/24	G	6/14/24	DI	—
						KW 6/14/24	H	6/15/24	DI	—
						KW 6/14/24	I	6/17/24	DI	—
						KW 6/17/24	J	6/18/24	DI	—
							K			
							L			
							M	—		
							N			
							O			
							P			
							Q			
							R			

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 844263 **Method/Testcode:** 300.0/Chloride

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2406890-01	Chloride	CCV		Water	4.30 mg/L	10 mL	4.30 mg/L	1					6/16/24 07:02	N	II
KQ2406890-01	Sulfate	CCV		Water	4.15 mg/L	10 mL	4.15 mg/L	1					6/16/24 07:02	N	II
KQ2406890-02	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			6/16/24 07:09	N	II
KQ2406890-02	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			6/16/24 07:09	N	II
KQ2406890-03	Chloride	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			6/16/24 07:09	N	II
KQ2406890-03	Sulfate	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			6/16/24 07:09	N	II
KQ2406890-04	Chloride	LCS		Water	1.97 mg/L	10 mL	1.97 mg/L	1	0.05	0.20	99		6/16/24 07:15	N	II
KQ2406890-04	Sulfate	LCS		Water	1.89 mg/L	10 mL	1.89 mg/L	1	0.04	0.20	95		6/16/24 07:15	N	II
K2404951-001	Chloride	N/A		Water	202.87 mg/L	10 mL	203 mg/L	50	3	10			6/16/24 08:04	N	II
K2404951-002	Chloride	N/A		Water	41.88 mg/L	10 mL	42 mg/L	50	3	10			6/16/24 08:23	N	II
K2404674-004	Sulfate	N/A		Water	197.33 mg/L	10 mL	197 mg/L	50	2	10			6/16/24 09:38	N	IV
KQ2406890-05	Sulfate	MS	R2404674-004	Water	319.18 mg/L	10 mL	319 mg/L	50	2	10	122*		6/16/24 09:44	N	IV
KQ2406890-06	Sulfate	DMS	R2404674-004	Water	330.56 mg/L	10 mL	331 mg/L	50	2	10	133*	4	6/16/24 09:50	N	IV
KQ2406890-07	Chloride	CCV		Water	4.22 mg/L	10 mL	4.22 mg/L	1					6/16/24 09:56	N	IV
KQ2406890-07	Sulfate	CCV		Water	4.01 mg/L	10 mL	4.01 mg/L	1					6/16/24 09:56	N	IV
KQ2406890-08	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			6/16/24 10:03	N	IV
KQ2406890-08	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			6/16/24 10:03	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Determination overview IC10 upload: Chrom/Bottom 300.0/9056A 6/16/24 KW

	Method name	Determination start	Position	Ident	Dilution	Info 1	Info 2
1	10-051424FAST	2024-06-16 07:02:42 UTC-4	1	CCV	1	300.0/9056A	
2	10-051424FAST	2024-06-16 07:09:02 UTC-4	2	CCB	1	300.0/9056A	
3	10-051424FAST	2024-06-16 07:15:18 UTC-4	3	LCS	1	300.0/9056A	
4	10-051424FAST	2024-06-16 08:04:53 UTC-4	4	R2404951-001	50	300.0 C	
5	10-051424FAST	2024-06-16 08:11:10 UTC-4	5	R2404951-002	10	300.0 C	
6	10-051424FAST	2024-06-16 08:23:50 UTC-4	6	R2404951-002	50	300.0 C	
7	10-051424FAST	2024-06-16 09:38:06 UTC-4	7	R2404674-004	50	300.0 S	
8	10-051424FAST	2024-06-16 09:44:23 UTC-4	8	R2404674-004 MS	50	300.0 S	
9	10-051424FAST	2024-06-16 09:50:40 UTC-4	9	R2404674-004 MSD	50	300.0 S	
10	10-051424FAST	2024-06-16 09:56:58 UTC-4	10	CCV	1	300.0/9056A	
11	10-051424FAST	2024-06-16 10:03:15 UTC-4	11	CCB	1	300.0/9056A	

Sample Dilutions

Final Volume: 8-10mL - IC#3,10

Analyst: Ku
Instrument: IC10

Date 06/16/24
Analysis 300.0/9056A

Common Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor
1/2	DI	4.5	4.5	1/2												
1/3	DI	3	6	1/3												
1/4	DI	2	6	1/4												
1/5	DI	2	8	1/5												
1/10	DI	1	9	1/10												
1/20	DI	3	3	1/2	1	9	1/20									
1/30	DI	3	6	1/3	1	9	1/30									
1/40	DI	1	3	1/4	1	9	1/40									
1/50	DI	1	4	1/5	1	9	1/50									
1/100	DI	1	9	1/10	1	9	1/100									
1/200	DI	3	3	1/2	1	9	1/20	1	9	1/200						
1/300	DI	3	6	1/3	1	9	1/30	1	9	1/300						
1/400	DI	1	3	1/4	1	9	1/40	1	9	1/400						
1/500	DI	1	4	1/5	1	9	1/50	1	9	1/500						
1/1000	DI	1	9	1/10	1	9	1/100	1	9	1/1000						
1/2000	DI	3	3	1/2	1	9	1/20	1	9	1/200	1	9	1/2000			
1/3000	DI	3	6	1/3	1	9	1/30	1	9	1/300	1	9	1/3000			
1/4000	DI	1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000			
1/10000	DI	1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000			
1/20000	DI	1	1	1/2	1	9	1/20	1	9	1/200	1	9	1/2000	1	9	1/20000
1/40000	DI	1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000	1	9	1/40000
1/100000	DI	1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000	1	9	1/100000

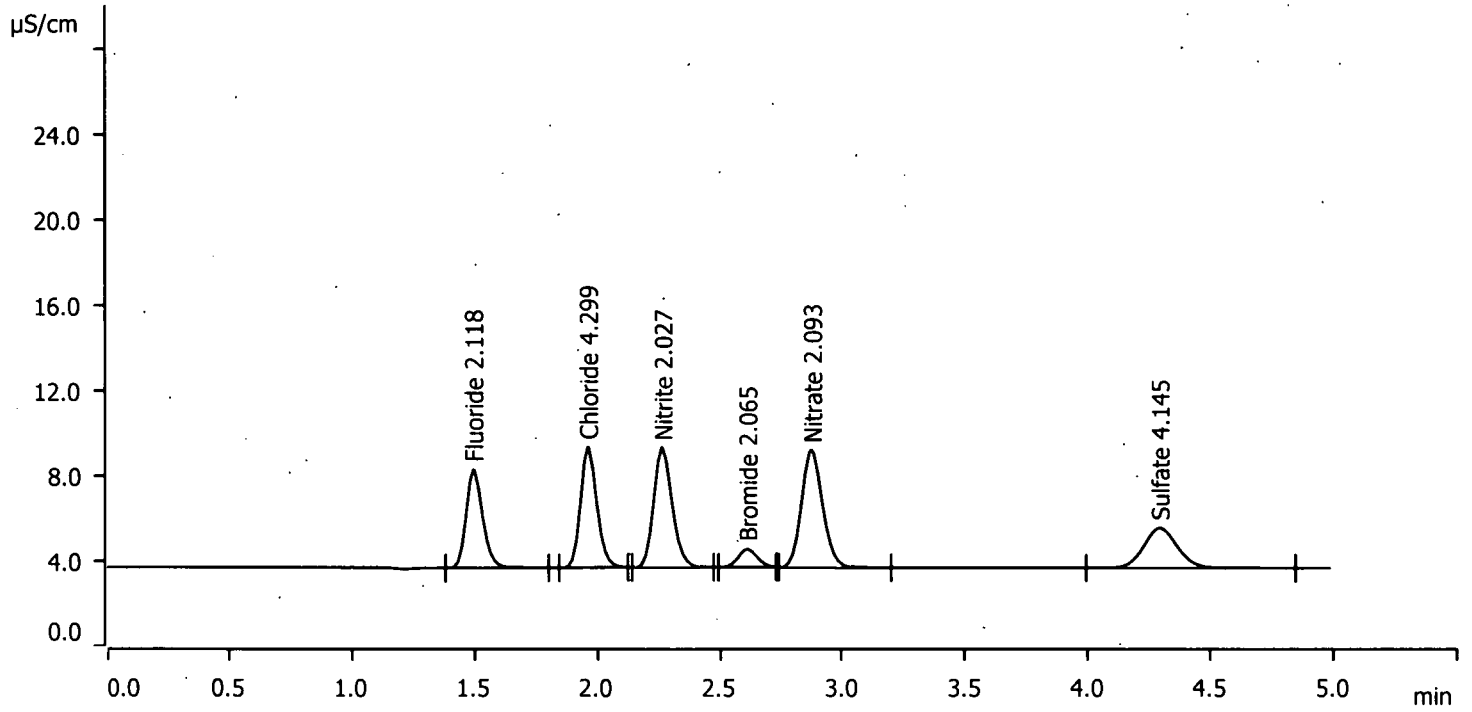
Special Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-06-16 07:02:42 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86215
Sample Position	1
Comment 1	300.0/9056A
Comment 2	

Anions



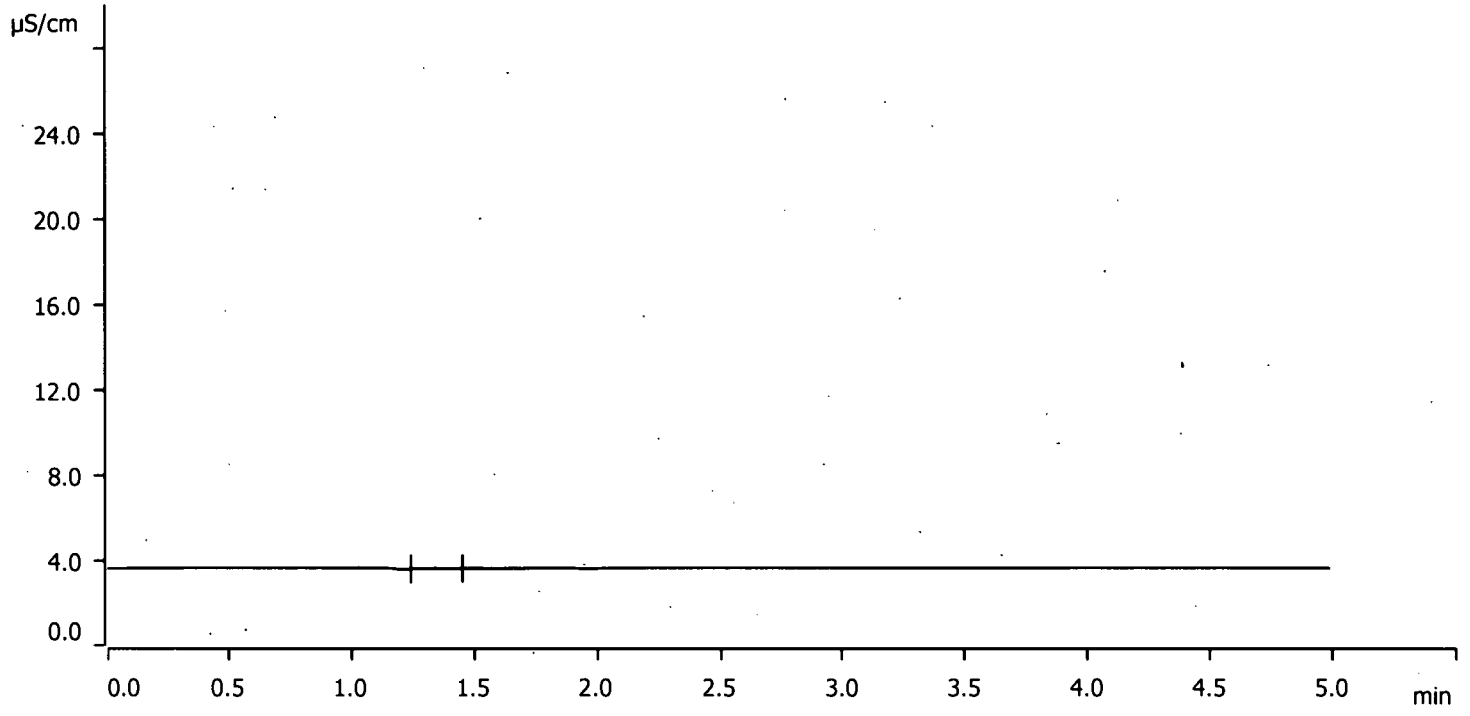
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.358	2.118	Fluoride	BB
2	1.97	0.431	4.299	Chloride	BB
3	2.27	0.487	2.027	Nitrite	BB
4	2.61	0.076	2.065	Bromide	BB
5	2.88	0.535	2.093	Nitrate	BB
6	4.29	0.301	4.145	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-06-16 07:09:02 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86216
Sample Position	2
Comment 1	300.0/9056A
Comment 2	

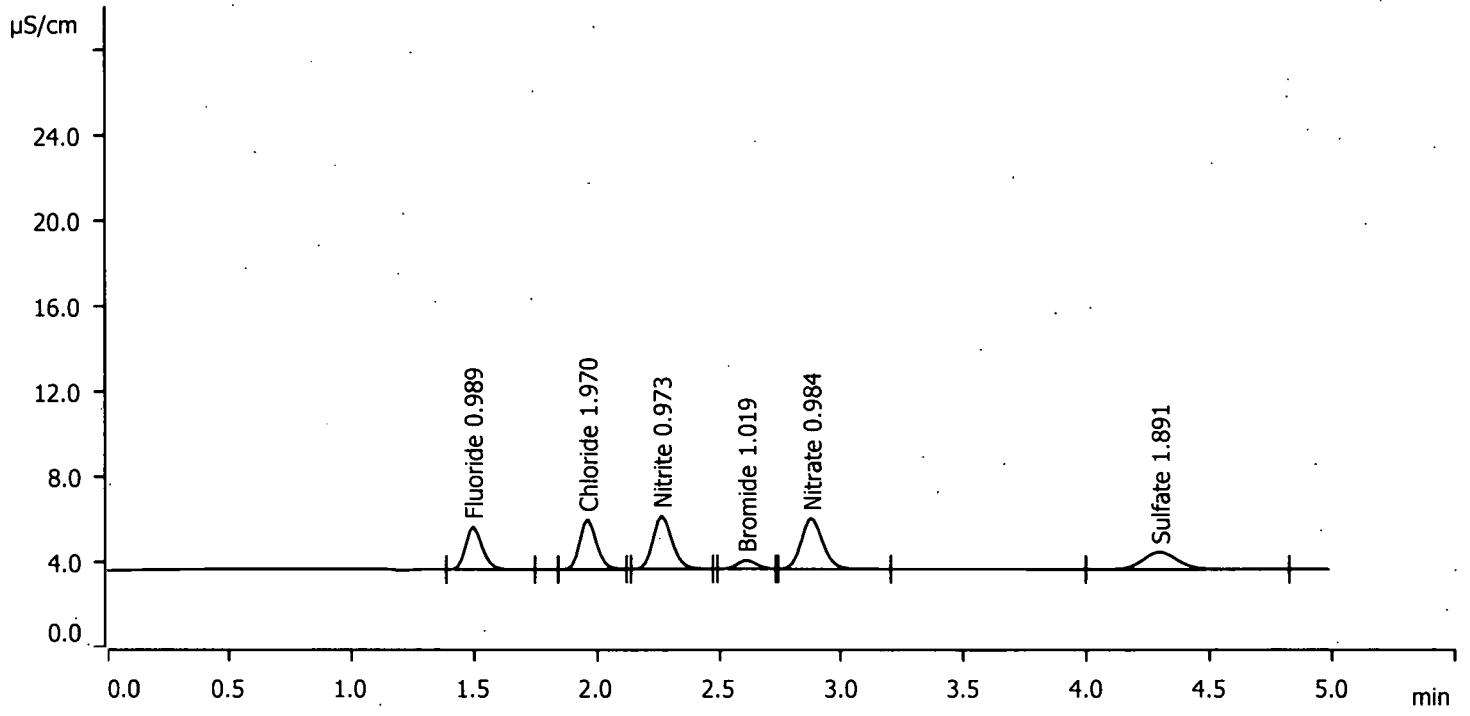
Anions



Sample data

Ident	LCS
Sample type	Check standard 2
Determination start	2024-06-16 07:15:18 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86217
Sample Position	3
Comment 1	300.0/9056A
Comment 2	

Anions



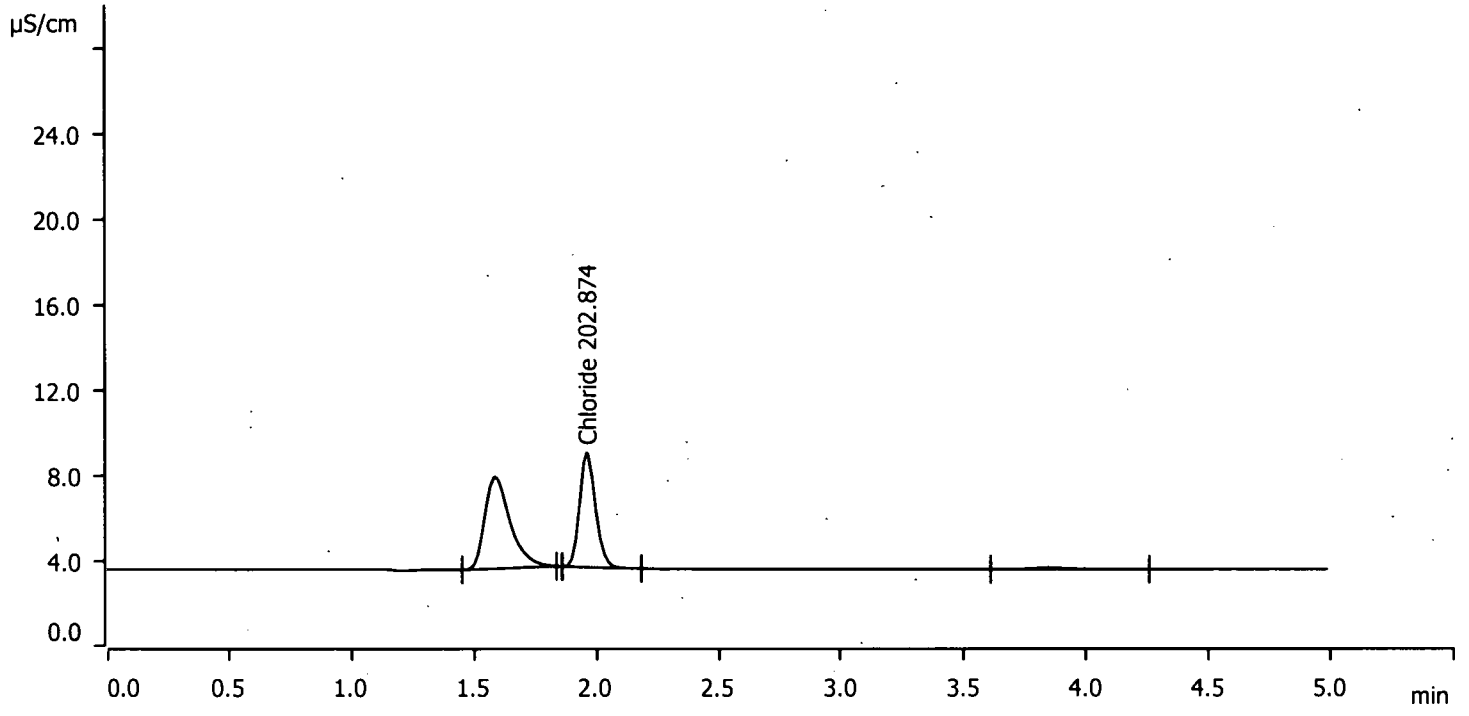
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.157	0.989	Fluoride	BB
2	1.97	0.183	1.970	Chloride	BB
3	2.27	0.222	0.973	Nitrite	BB
4	2.61	0.037	1.019	Bromide	BB
5	2.88	0.235	0.984	Nitrate	BB
6	4.30	0.133	1.891	Sulfate	BB

Sample data

Ident	R2404951-001
Sample type	Sample
Determination start	2024-06-16 08:04:53 UTC-4
Method	10-051424FAST
Dilution	50
Counter	86218
Sample Position	4
Comment 1	300.0 C
Comment 2	

Anions



Anions

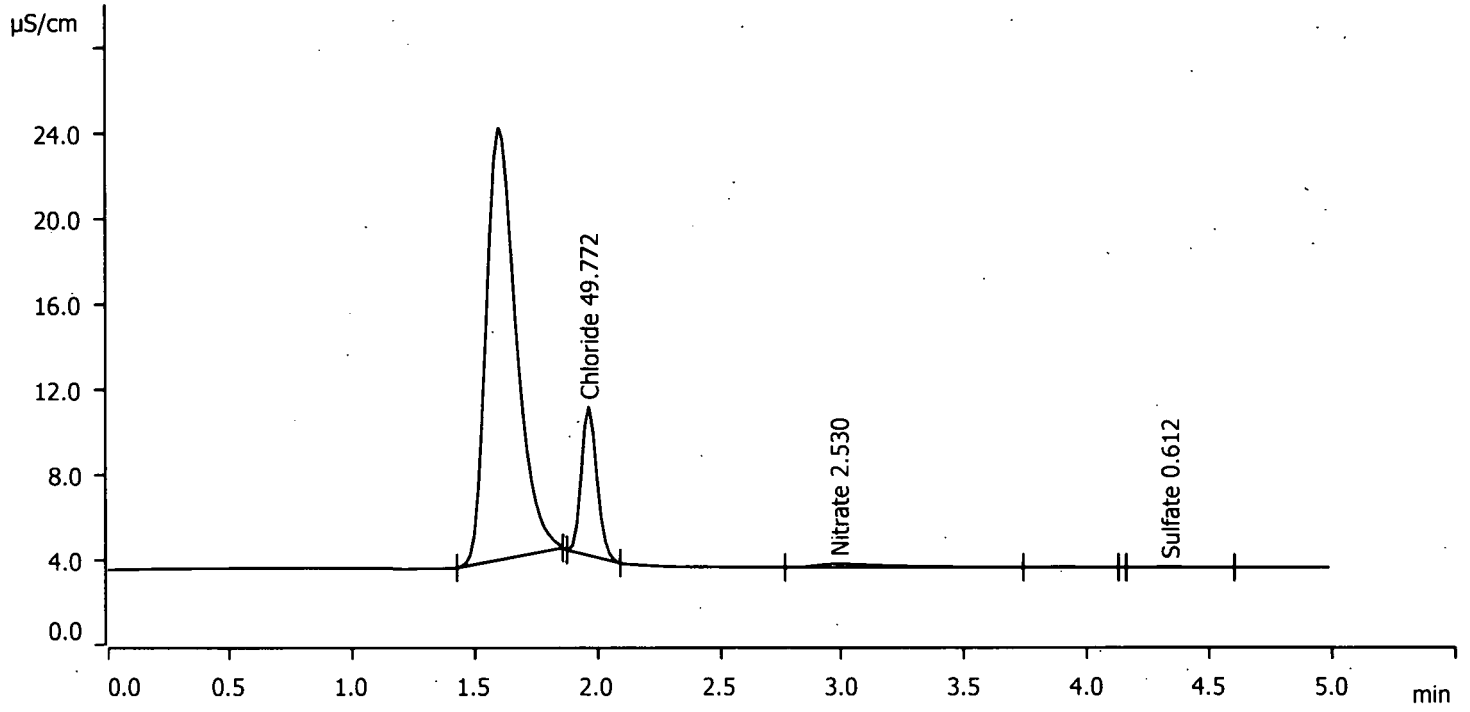
Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.404	202.874	Chloride	BB

Sample data

DNR

Ident	R2404951-002
Sample type	Sample
Determination start	2024-06-16 08:11:10 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86219
Sample Position	5
Comment 1	300.0 C
Comment 2	

Anions



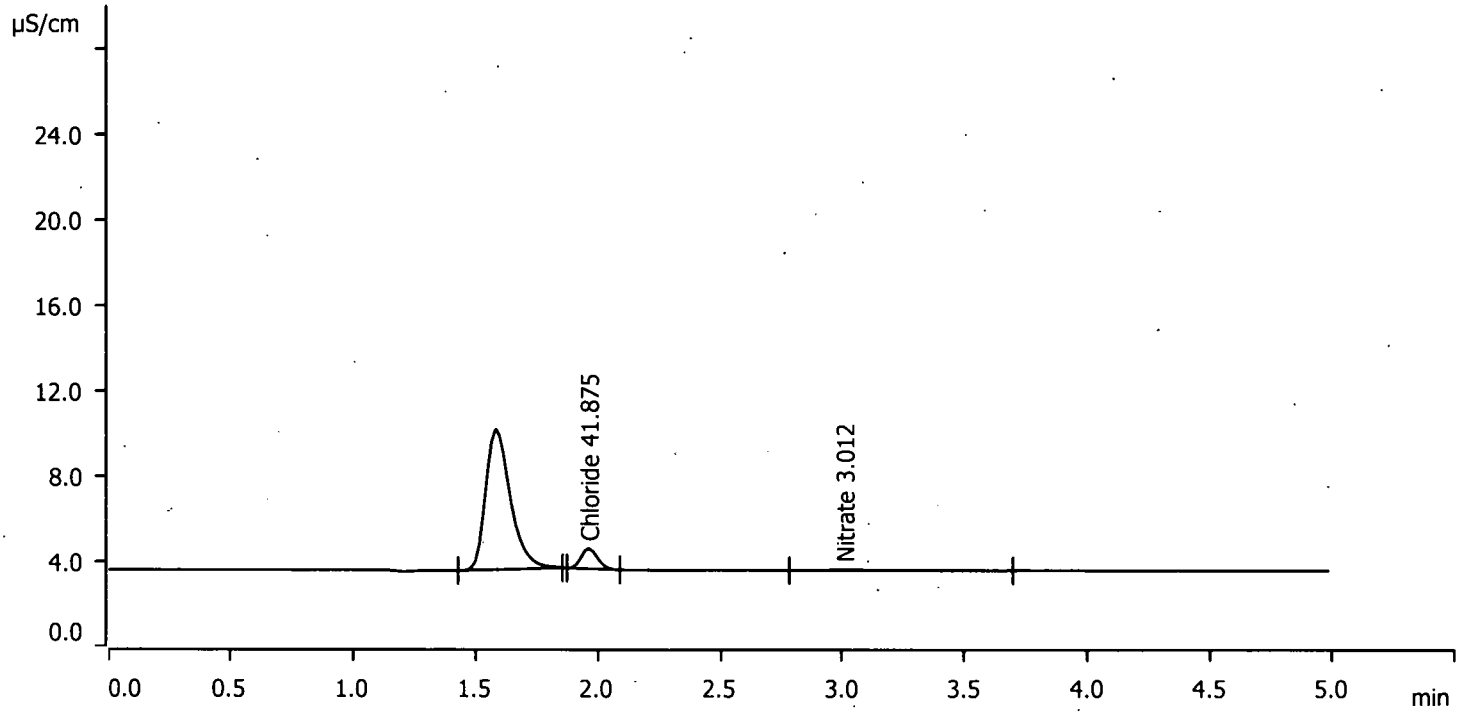
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.97	0.508	49.772	Chloride	BB
3	2.99	0.055	2.530	Nitrate	BB
5	4.34	0.005	0.612	Sulfate	BB

Sample data

Ident	R2404951-002
Sample type	Sample
Determination start	2024-06-16 08:23:50 UTC-4
Method	10-051424FAST
Dilution	50
Counter	86220
Sample Position	6
Comment 1	300.0 C
Comment 2	

Anions



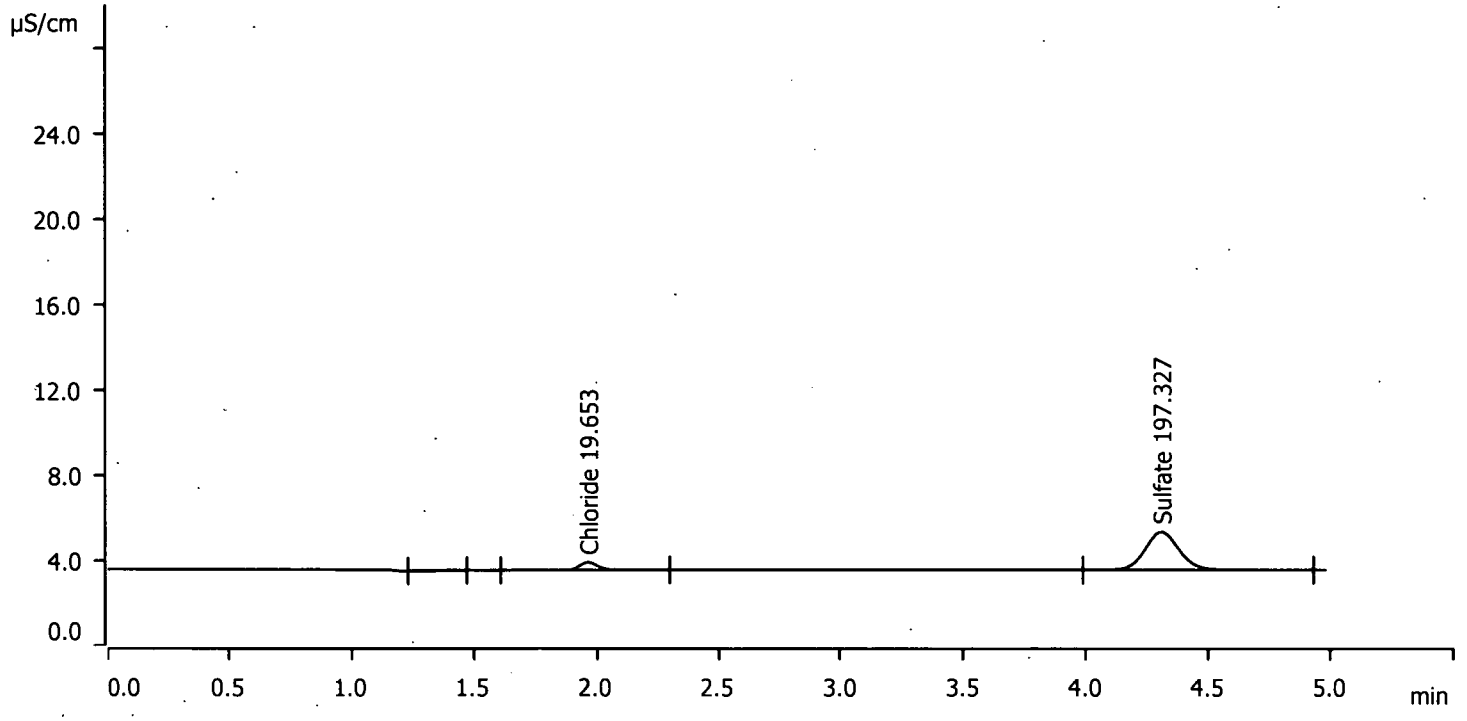
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.97	0.073	41.875	Chloride	BB
3	3.01	0.011	3.012	Nitrate	BBI

Sample data

Ident	R2404674-004
Sample type	Sample
Determination start	2024-06-16 09:38:06 UTC-4
Method	10-051424FAST
Dilution	50
Counter	86221
Sample Position	7
Comment 1	300.0 S
Comment 2	

Anions



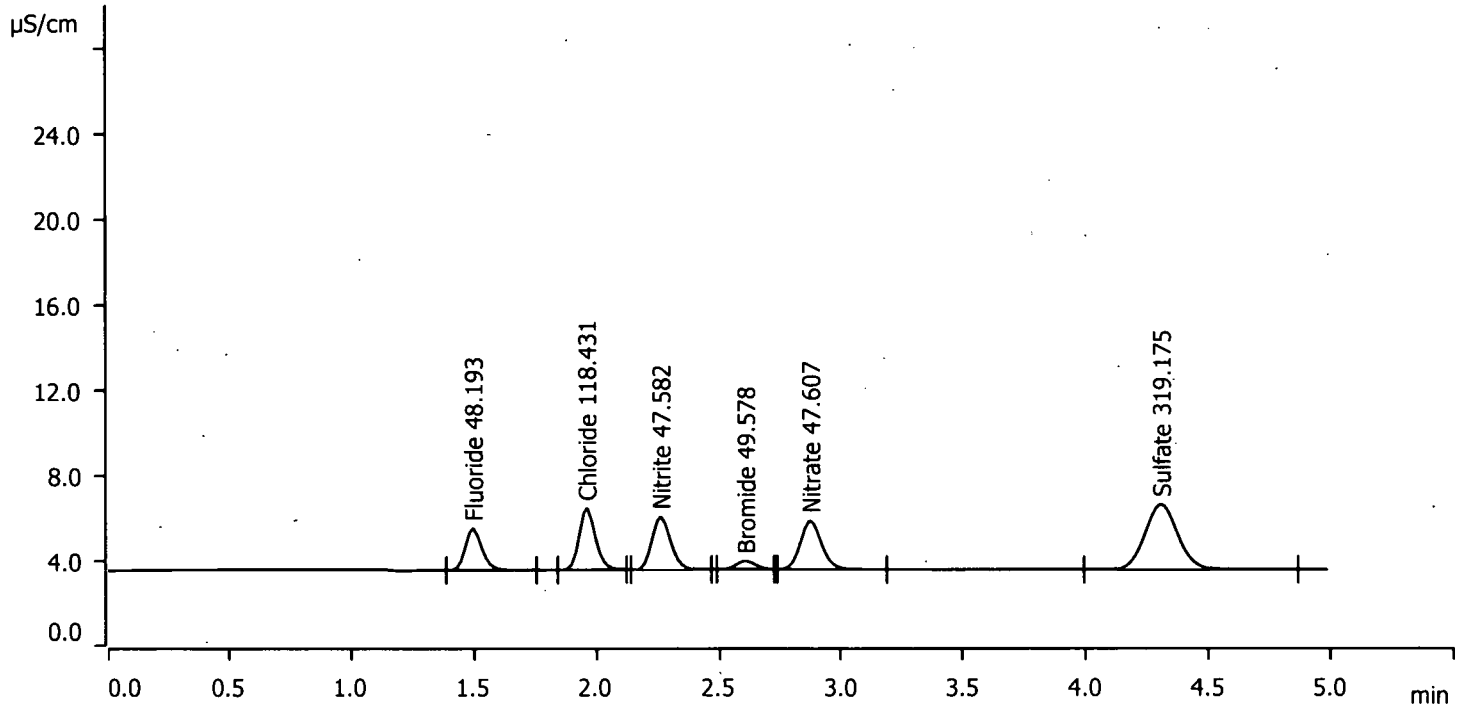
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.97	0.032	19.653	Chloride	BB
3	4.31	0.285	197.327	Sulfate	BB

Sample data

Ident	R2404674-004 MS
Sample type	Sample
Determination start	2024-06-16 09:44:23 UTC-4
Method	10-051424FAST
Dilution	50
Counter	86222
Sample Position	8
Comment 1	300.0 S
Comment 2	

Anions



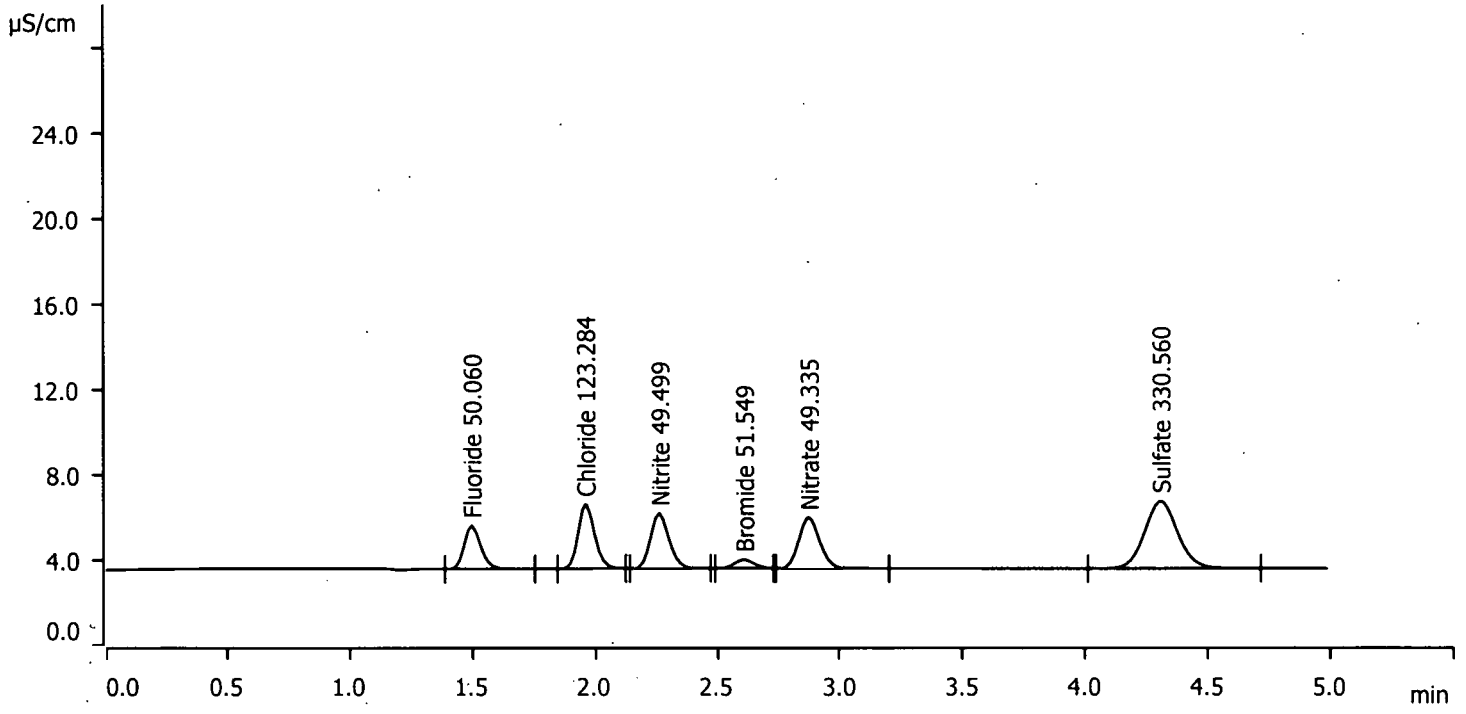
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.153	48.193	Fluoride	BB
2	1.96	0.223	118.431	Chloride	BB
3	2.27	0.217	47.582	Nitrite	BB
4	2.61	0.036	49.578	Bromide	BB
5	2.87	0.227	47.607	Nitrate	BB
6	4.31	0.477	319.175	Sulfate	BB

Sample data

Ident	R2404674-004 MSD
Sample type	Sample
Determination start	2024-06-16 09:50:40 UTC-4
Method	10-051424FAST
Dilution	50
Counter	86223
Sample Position	9
Comment 1	300.0 S
Comment 2	

Anions



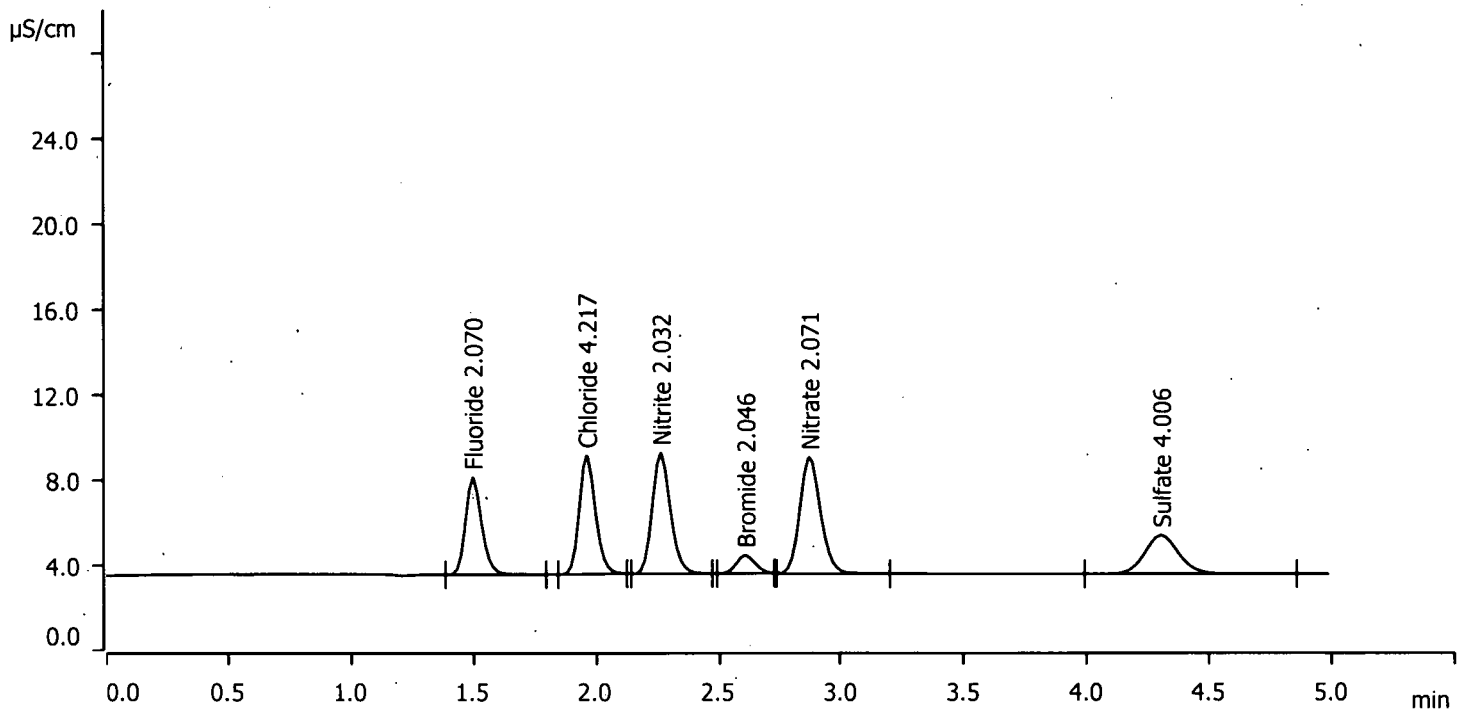
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.159	50.060	Fluoride	BB
2	1.96	0.233	123.284	Chloride	BB
3	2.27	0.226	49.499	Nitrite	BB
4	2.61	0.037	51.549	Bromide	BB
5	2.87	0.236	49.335	Nitrate	BB
6	4.31	0.496	330.560	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-06-16 09:56:58 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86224
Sample Position	10
Comment 1	300.0/9056A
Comment 2	

Anions



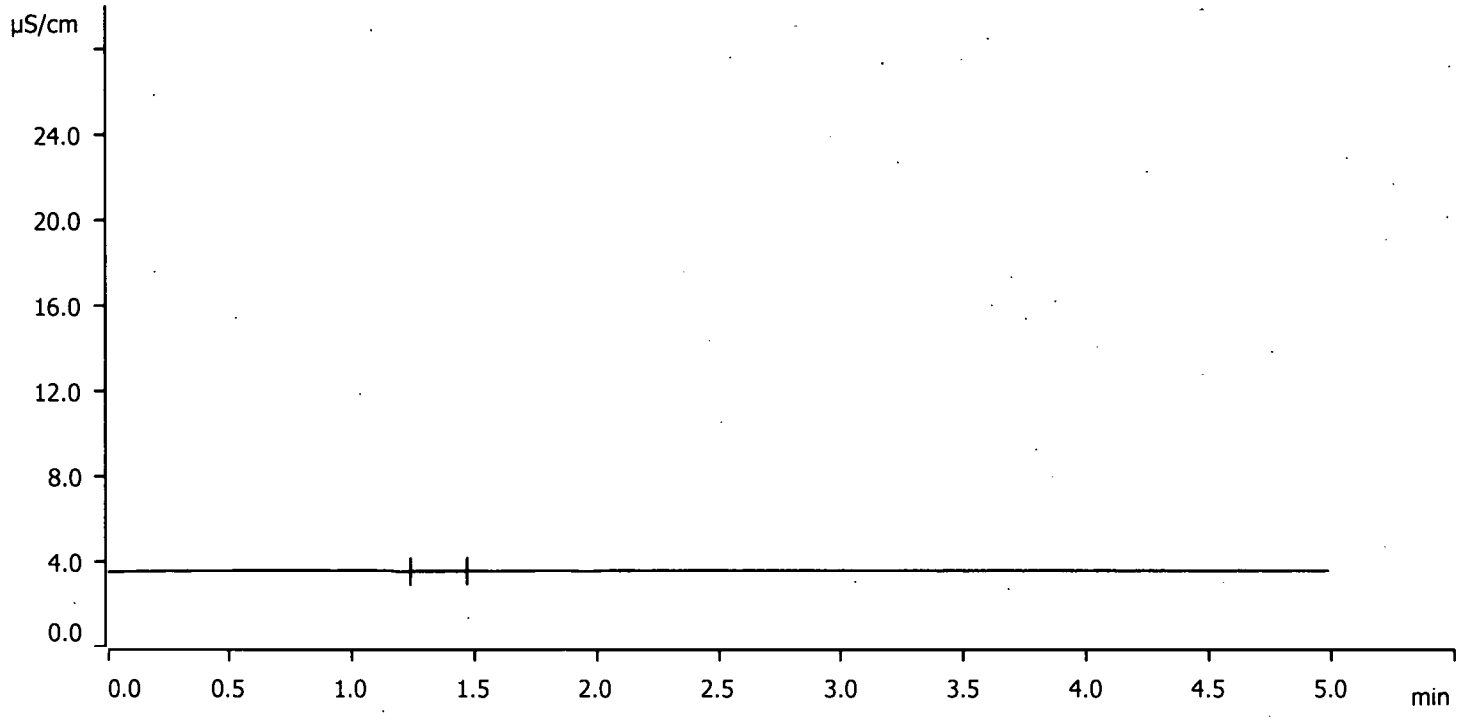
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.349	2.070	Fluoride	BB
2	1.97	0.422	4.217	Chloride	BB
3	2.27	0.488	2.032	Nitrite	BB
4	2.61	0.076	2.046	Bromide	BB
5	2.87	0.528	2.071	Nitrate	BB
6	4.30	0.290	4.006	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-06-16 10:03:15 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86225
Sample Position	11
Comment 1	300.0/9056A
Comment 2	

Anions



ALS Environmental

1575 Jefferson Road, Building 300, Suite 360, Rochester, New York 14623

Ion Chromatography Cover Sheet

Instrument: Metrohm IC 930 (IC#10)

Column: Dionex IonPac AS22-Fast (Installed 04/23/2024)

Curve Date: 05/14/24 **Loop size: 25 uL Loop**

Analyst: KW **Analysis Date:** 6/16/24

Balance ID for Soil Preparation: NB5

Is copy of LCS attached to run? (YES) / NO

Method Filename: 10-051424FAST

Standards Prep Dates & Log ID's:

Std Type	*Prep Date*	*Log ID*		*Std Type*	*Prep Date*	*Log ID*
Calibration Intermediate	04/23/2024	234759		Working Calibration Stds	05/14/2024	WC236013M
LCS / MS Intermediate	04/23/2024	234759		Working LCS/MS Standard	06/16/2024	WC236093I
ICV Intermediate	05/14/2024	235191		Working ICV Standard	05/14/2024	WC236034A
CCV Intermediate	05/14/2024	235191		Working CCV Standard	06/16/2024	WC236035I

Original Retention Times for this method are based on Standard 6 and are as follows:

Fluoride: 1.51	Bromide: 2.67
Chloride: 2.00	Nitrate: 2.95
Nitrite: 2.31	Sulfate: 4.48

Additional Comments: Column Serial Number: 231214122
Linear Range Verification (High Standard) Analyzed: 03/09/2024 – Due Every Six Months

Pipets: Chrome, Bottom
Disposable Pipet ID: (Fisher) 26023005

Eluent Stock (100x): 235121
Suppressor Stock (5x): 235047

LCS Prep

(Stocks delivered using volumetric glassware and brought to volume with DI. LCS expires after 7 days; if NO_2 is needed, LCS must be prepared daily.)

(MS prepared fresh daily using same volume of intermediate stock added to 100mLs sample. MS not prepared volumetrically.)

Analyte	Calibration Intermediate Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst / Date Prepped	Lot ID	Exp. Date	Matrix H_2SO_4 / NaOH / DI	H_2SO_4 / NaOH Lot #
F	234759	50	2.0	200	1.0	KW 6/6/24	A	6/13/24	DI	—
Cl		100			2.0	KW 6/7/24	B	6/14/24	DI	—
NO_2		50			1.0	KW 6/8/24	C	6/15/24	DI	—
Br		50			1.0	KW 6/10/24	D	6/17/24	DI	—
NO_3		50			1.0	KW 6/11/24	E	6/18/24	DI	—
OPO_4		50			1.0	KW 6/12/24	F	6/19/24	DI	—
SO_4		100			2.0	KW 6/13/24	G	6/20/24	DI	—
						KW 6/14/24	H	6/21/24	DI	—
						KW 6/16/24	I	6/23/24	DI	—
						KW 6/17/24	J	6/24/24	DI	—
							K			
							L			
							M			
							N			
							O			
							P			
							Q			
							R			

ICV / CCV PREP

(A 1:1 dilution of the Reference Intermediate Stock is done daily.)

Analyte	ICV / CCV Intermediate Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst / Date Prepped	Lot ID	Exp. Date	Matrix H_2SO_4 / NaOH / DI	H_2SO_4 / NaOH Lot #
F	235191	4.00	5.0	10.0	2.00	KW 6/6/24	A	6/7/24	DI	—
Cl		8.00			4.00	KW 6/7/24 6/7/24	B	6/8/24 6/9 KW 6/7/24	DI	—
NO_2		4.00			2.00	KW 6/8/24 KW	C	6/9/24	DI	—
Br		4.00			2.00	KW 6/10/24	D	6/11/24	DI	—
NO_3		4.00			2.00	KW 6/11/24	E	6/12/24	DI	—
OPO_4		4.00			2.00	KW 6/12/24	F	6/13/24	DI	—
SO_4		8.00			4.00	KW 6/13/24	G	6/14/24	DI	—
						KW 6/14/24	H	6/15/24	DI	—
						KW 6/16/24	I	6/17/24	DI	—
						KW 6/17/24	J	6/18/24	DI	—
							K			
							L			
							M			
							N			
							O			
							P			
							Q			
							R			

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 844610 **Method/Testcode:** 300.0/F

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
‹Q2407075-01	Fluoride, undistilled	CCV		Water	2.00 mg/L	10 mL	2.00 mg/L	1					6/18/24 19:30	N	IV
‹Q2407075-01	Sulfate	CCV		Water	4.04 mg/L	10 mL	4.04 mg/L	1					6/18/24 19:30	N	IV
‹Q2407075-02	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/18/24 19:37	N	IV
‹Q2407075-02	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			6/18/24 19:37	N	IV
‹Q2407075-03	Fluoride, undistilled	MB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/18/24 19:37	N	IV
‹Q2407075-03	Sulfate	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			6/18/24 19:37	N	IV
‹Q2407075-04	Fluoride, undistilled	LCS		Water	0.95 mg/L	10 mL	0.948 mg/L	1	0.010	0.10	95		6/18/24 19:43	N	IV
‹Q2407075-04	Sulfate	LCS		Water	2.04 mg/L	10 mL	2.04 mg/L	1	0.04	0.20	102		6/18/24 19:43	N	IV
‹2404674-007	Sulfate	N/A		Water	187.23 mg/L	10 mL	187 mg/L	30	1.2	6.0			6/18/24 19:56	N	IV
‹2404674-008	Sulfate	N/A		Water	100.28 mg/L	10 mL	100 mg/L	20	0.8	4.0			6/18/24 20:02	N	IV
‹2404674-013	Sulfate	N/A		Water	98.79 mg/L	10 mL	98.8 mg/L	20	0.8	4.0			6/18/24 20:08	N	IV
‹Q2407075-05	Sulfate	MS	R2404674-013	Water	138.21 mg/L	10 mL	138 mg/L	20	0.8	4.0	99		6/18/24 20:14	N	IV
‹Q2407075-06	Sulfate	DMS	R2404674-013	Water	138.85 mg/L	10 mL	139 mg/L	20	0.8	4.0	100	<1	6/18/24 20:21	N	IV
‹2405142-001	Fluoride, undistilled	N/A		Water	7.16 mg/L	10 mL	7.16 mg/L	2	0.02	0.20			6/18/24 20:33	N	II
‹2405157-001	Fluoride, undistilled	N/A		Water	1.13 mg/L	10 mL	1.13 mg/L	1	0.010	0.10			6/18/24 20:40	N	II
‹Q2407075-07	Fluoride, undistilled	CCV		Water	1.97 mg/L	10 mL	1.97 mg/L	1					6/18/24 20:46	N	II
‹Q2407075-07	Sulfate	CCV		Water	3.99 mg/L	10 mL	3.99 mg/L	1					6/18/24 20:46	N	II
‹Q2407075-08	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/18/24 20:52	N	II
‹Q2407075-08	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			6/18/24 20:52	N	II
‹2405157-003	Fluoride, undistilled	N/A		Water	2.94 mg/L	10 mL	2.94 mg/L	1	0.010	0.10			6/18/24 20:59	N	II
‹2405157-005	Fluoride, undistilled	N/A		Water	3.02 mg/L	10 mL	3.02 mg/L	1	0.010	0.10			6/18/24 21:24	Y	II
‹Q2407075-09	Fluoride, undistilled	MS	R2405157-005	Water	3.91 mg/L	10 mL	3.91 mg/L	1	0.010	0.10	89*		6/18/24 21:30	N	II
‹Q2407075-10	Fluoride, undistilled	DMS	R2405157-005	Water	3.91 mg/L	10 mL	3.91 mg/L	1	0.010	0.10	89*	<1	6/18/24 21:36	N	II
‹2405157-011	Fluoride, undistilled	N/A		Water	34.67 mg/L	10 mL	34.7 mg/L	10	0.10	1.0			6/18/24 21:43	N	II
‹Q2407075-11	Fluoride, undistilled	CCV		Water	1.99 mg/L	10 mL	1.99 mg/L	1					6/18/24 21:49	N	II
‹Q2407075-11	Sulfate	CCV		Water	4.05 mg/L	10 mL	4.05 mg/L	1					6/18/24 21:49	N	II
‹Q2407075-12	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			6/18/24 21:55	N	II
‹Q2407075-12	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			6/18/24 21:55	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

MagIC Net 3.3 Build 130 | Computer name: NARCEWX010 | User (short name): alrce.nouser
License ID: 4612612 | KAW/KLJ 6/18/24 | Printed: 2024-06-19 08:02:06 UTC-4

Determination overview

IC-10 Anions

	Method name	Determination start	Position	Ident	Dilution	Info 1	Info 2
1	10-061824FAST	2024-06-18 17:41:26 UTC-4	59	STANDARD 1	1	300.0/9056A	
2	10-061824FAST	2024-06-18 17:47:47 UTC-4	60	STANDARD 2	1	300.0/9056A	
3	10-061824FAST	2024-06-18 17:54:02 UTC-4	61	STANDARD 3	1	300.0/9056A	
4	10-061824FAST	2024-06-18 18:00:17 UTC-4	62	STANDARD 4	1	300.0/9056A	
5	10-061824FAST	2024-06-18 18:06:34 UTC-4	63	STANDARD 5	1	300.0/9056A	
6	10-061824FAST	2024-06-18 18:12:49 UTC-4	64	STANDARD 6	1	300.0/9056A	
7	10-061824FAST	2024-06-18 18:19:04 UTC-4	65	STANDARD 7	1	300.0/9056A	
8	10-061824FAST	2024-06-18 18:25:20 UTC-4	66	STANDARD 8	1	300.0/9056A	
9	10-061824FAST	2024-06-18 19:30:55 UTC-4	67	ICV	1	300.0/9056A	
10	10-061824FAST	2024-06-18 19:37:12 UTC-4	68	ICB	1	300.0/9056A	
11	10-061824FAST	2024-06-18 19:43:26 UTC-4	69	LCS 8446610	1	300.0/9056A	
12	10-051424FAST	2024-06-18 19:49:44 UTC-4	35	R2405157-012 DNR	10	300.0 F	REPEAT STRAIGHT
13	10-051424FAST	2024-06-18 19:56:03 UTC-4	36	R2404674-007	30	300.0 S	
14	10-051424FAST	2024-06-18 20:02:19 UTC-4	37	R2404674-008	20	300.0 S	
15	10-051424FAST	2024-06-18 20:08:36 UTC-4	38	R2404674-013	20	300.0 S	
16	10-051424FAST	2024-06-18 20:14:52 UTC-4	39	R2404674-013 MS	20	300.0 S	
17	10-051424FAST	2024-06-18 20:21:09 UTC-4	40	R2404674-013 MSD	20	300.0 S	
18	10-051424FAST	2024-06-18 20:27:26 UTC-4	44	R2405157-012 DNR	10	300.0 F	
19	10-051424FAST	2024-06-18 20:33:43 UTC-4	45	R2405142-001	2	300.0 F	
20	10-051424FAST	2024-06-18 20:40:04 UTC-4	46	R2405157-001	1	300.0 F	
21	10-051424FAST	2024-06-18 20:46:22 UTC-4	41	CCV	1	300.0/9056A	
22	10-051424FAST	2024-06-18 20:52:44 UTC-4	42	CCB	1	300.0/9056A	
23	10-051424FAST	2024-06-18 20:59:01 UTC-4	47	R2405157-003	1	300.0 F	
24	10-051424FAST	2024-06-18 21:05:23 UTC-4	48	R2405157-004 DNR	3	300.0 F	REPEAT @ 5
25	10-051424FAST	2024-06-18 21:11:39 UTC-4	49	R2405157-004 MS! DNR	3	300.0 F	REPEAT @ 5
26	10-051424FAST	2024-06-18 21:17:56 UTC-4	50	R2405157-004 MSD! DNR	3	300.0 F	REPEAT @ 5
27	10-051424FAST	2024-06-18 21:24:13 UTC-4	51	R2405157-005	1	300.0 F	
28	10-051424FAST	2024-06-18 21:30:30 UTC-4	52	R2405157-005 MS!	1	300.0 F	
29	10-051424FAST	2024-06-18 21:36:49 UTC-4	55	R2405157-005 MSD!	1	300.0 F	
30	10-051424FAST	2024-06-18 21:43:09 UTC-4	56	R2405157-011	10	300.0 F	
31	10-051424FAST	2024-06-18 21:49:25 UTC-4	57	CCV	1	300.0/9056A	
32	10-051424FAST	2024-06-18 21:55:43 UTC-4	58	CCB	1	300.0/9056A	

all reprocessed under new method 10-061824FAST KAW 6/19/24

CK 6/19/24

Sample Dilutions

Final Volume: 8-10mL - IC#3,10

Analyst: KW/KW
Instrument: IC-10

Date 6/18/24
Analysis Anions

Common Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor
1/2	DI	4.5	4.5	1/2												
1/3	DI	3	6	1/3												
1/4	DI	2	6	1/4												
1/5	DI	2	8	1/5												
1/10	DI	1	9	1/10												
1/20	DI	3	3	1/2	1	9	1/20									
1/30	DI	3	6	1/3	1	9	1/30									
1/40	DI	1	3	1/4	1	9	1/40									
1/50	DI	1	4	1/5	1	9	1/50									
1/100	DI	1	9	1/10	1	9	1/100									
1/200	DI	3	3	1/2	1	9	1/20	1	9	1/200						
1/300	DI	3	6	1/3	1	9	1/30	1	9	1/300						
1/400	DI	1	3	1/4	1	9	1/40	1	9	1/400						
1/500	DI	1	4	1/5	1	9	1/50	1	9	1/500						
1/1000	DI	1	9	1/10	1	9	1/100	1	9	1/1000						
1/2000	DI	3	3	1/2	1	9	1/20	1	9	1/200	1	9	1/2000			
1/3000	DI	3	6	1/3	1	9	1/30	1	9	1/300	1	9	1/3000			
1/4000	DI	1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000			
1/10000	DI	1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000			
1/20000	DI	1	1	1/2	1	9	1/20	1	9	1/200	1	9	1/2000	1	9	1/20000
1/40000	DI	1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000	1	9	1/40000
1/100000	DI	1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000	1	9	1/100000

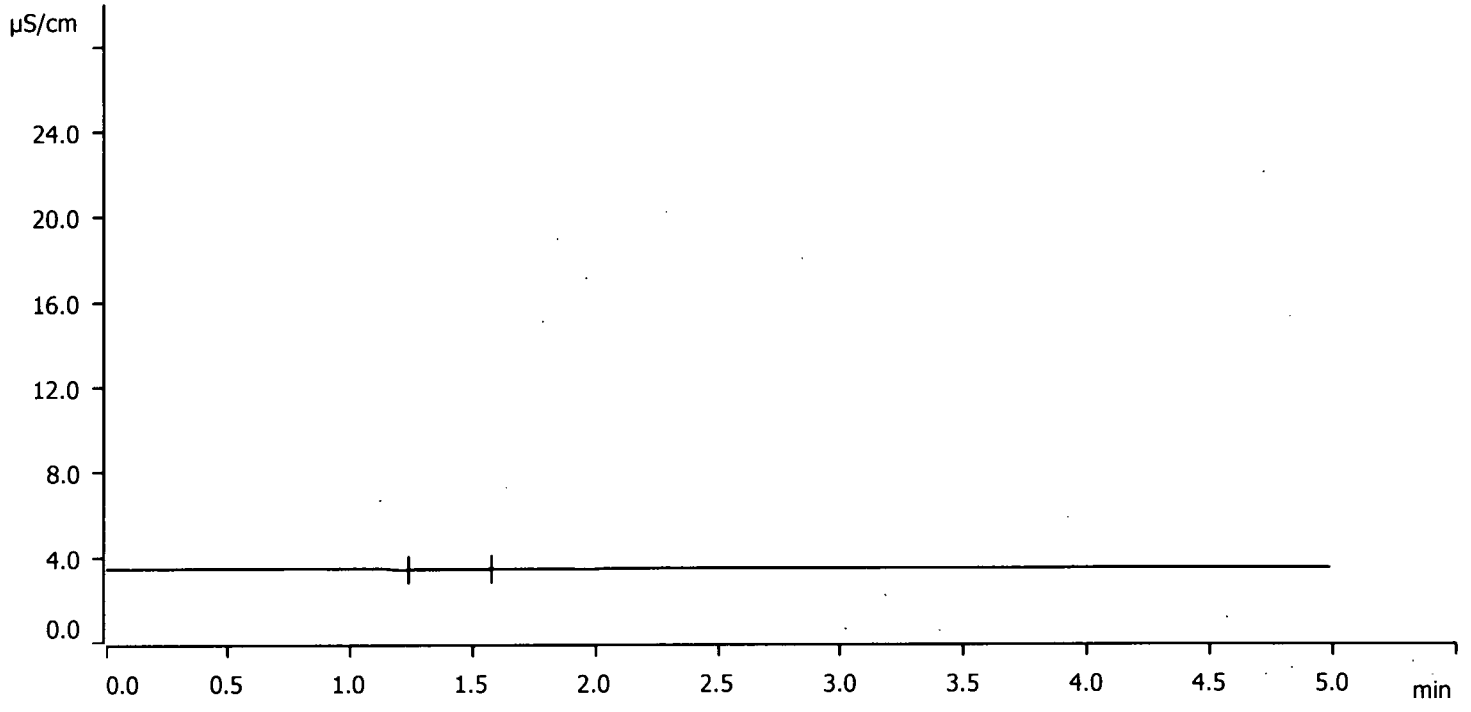
Special Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor

Sample data

Ident	STANDARD 1
Sample type	Standard 1
Determination start	2024-06-18 17:41:26 UTC-4
Method	10-061824FAST
Dilution	1
Counter	86313
Sample Position	59
Comment 1	300.0/9056A
Comment 2	

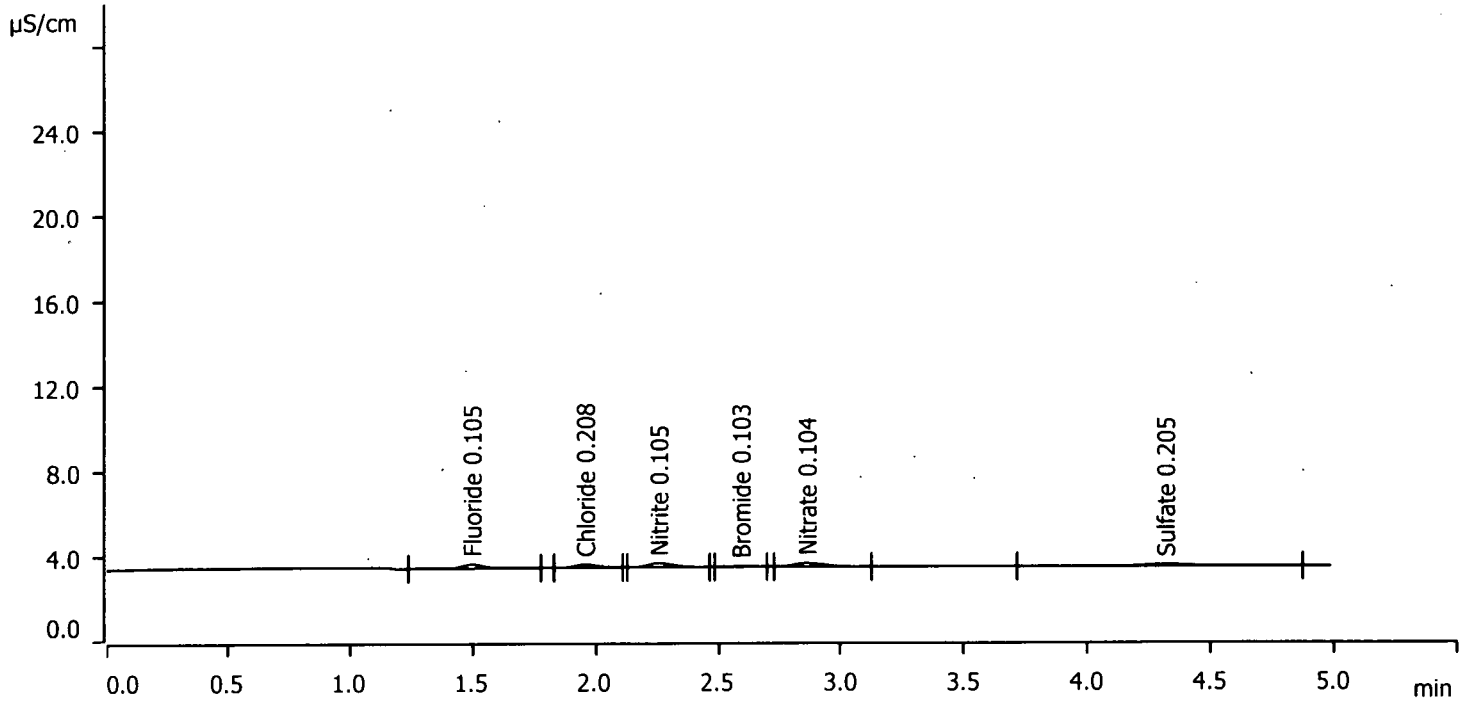
Anions



Sample data

Ident	STANDARD 2
Sample type	Standard 2
Determination start	2024-06-18 17:47:47 UTC-4
Method	10-061824FAST
Dilution	1
Counter	86314
Sample Position	60
Comment 1	300.0/9056A
Comment 2	

Anions



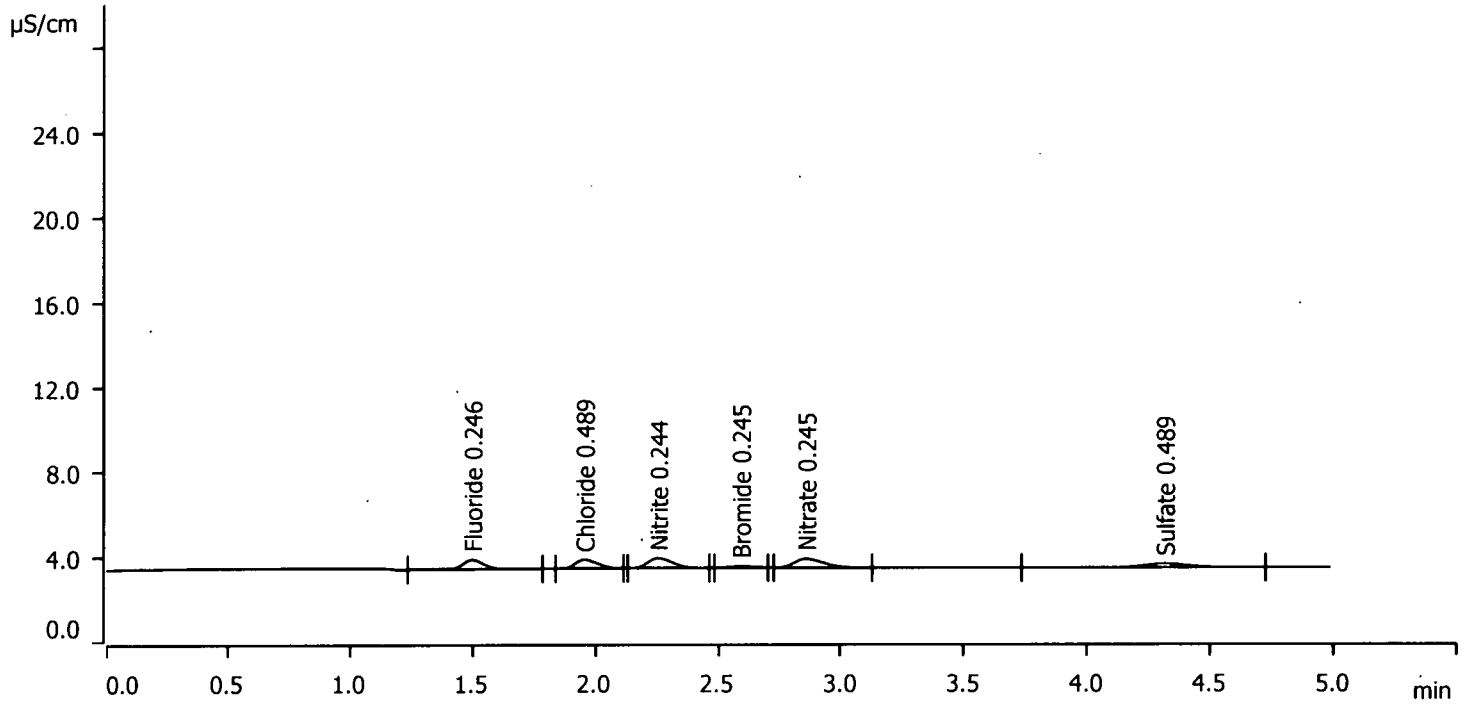
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.023	0.105	Fluoride	BB
2	1.96	0.015	0.208	Chloride	BB
3	2.26	0.022	0.105	Nitrite	BB
4	2.59	0.003	0.103	Bromide	BB
5	2.86	0.023	0.104	Nitrate	BB
6	4.31	0.015	0.205	Sulfate	BB

Sample data

Ident	STANDARD 3
Sample type	Standard 3
Determination start	2024-06-18 17:54:02 UTC-4
Method	10-061824FAST
Dilution	1
Counter	86315
Sample Position	61
Comment 1	300.0/9056A
Comment 2	

Anions



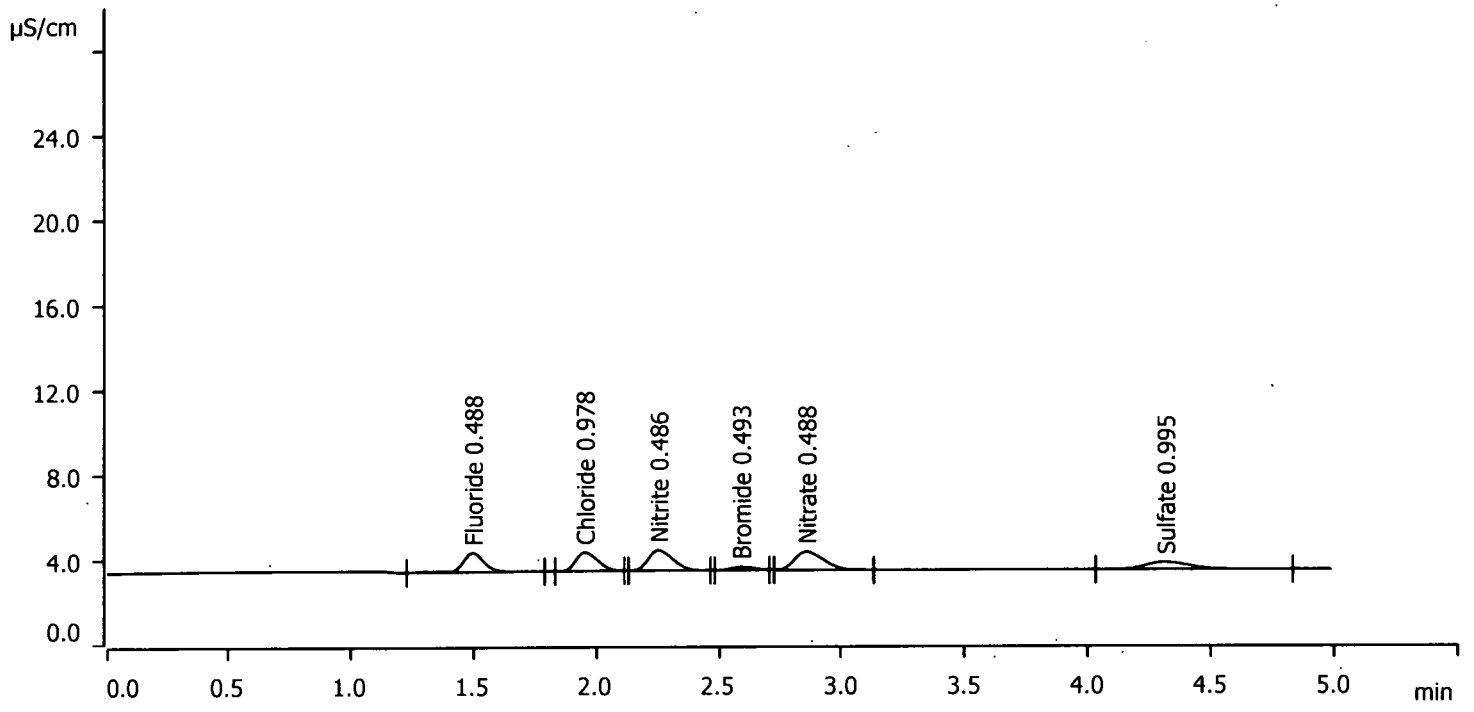
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.048	0.246	Fluoride	BB
2	1.96	0.043	0.489	Chloride	BB
3	2.26	0.055	0.244	Nitrite	BB
4	2.60	0.008	0.245	Bromide	BB
5	2.86	0.057	0.245	Nitrate	BB
6	4.31	0.036	0.489	Sulfate	BB

Sample data

Ident	STANDARD 4
Sample type	Standard 4
Determination start	2024-06-18 18:00:17 UTC-4
Method	10-061824FAST
Dilution	1
Counter	86316
Sample Position	62
Comment 1	300.0/9056A
Comment 2	

Anions



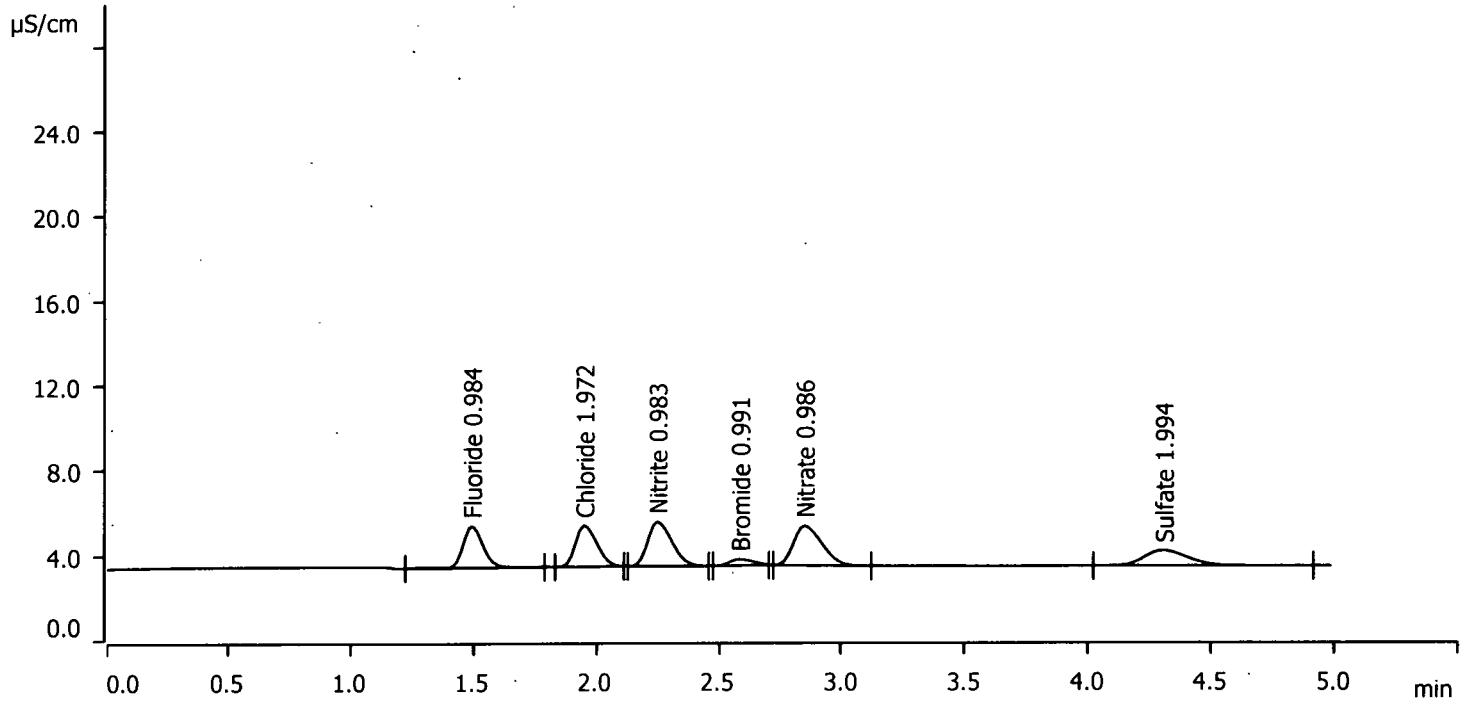
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.093	0.488	Fluoride	BB
2	1.96	0.092	0.978	Chloride	BB
3	2.26	0.114	0.486	Nitrite	BB
4	2.59	0.016	0.493	Bromide	BB
5	2.86	0.119	0.488	Nitrate	BB
6	4.31	0.073	0.995	Sulfate	BB

Sample data

Ident	STANDARD 5
Sample type	Standard 5
Determination start	2024-06-18 18:06:34 UTC-4
Method	10-061824FAST
Dilution	1
Counter	86317
Sample Position	63
Comment 1	300.0/9056A
Comment 2	

Anions



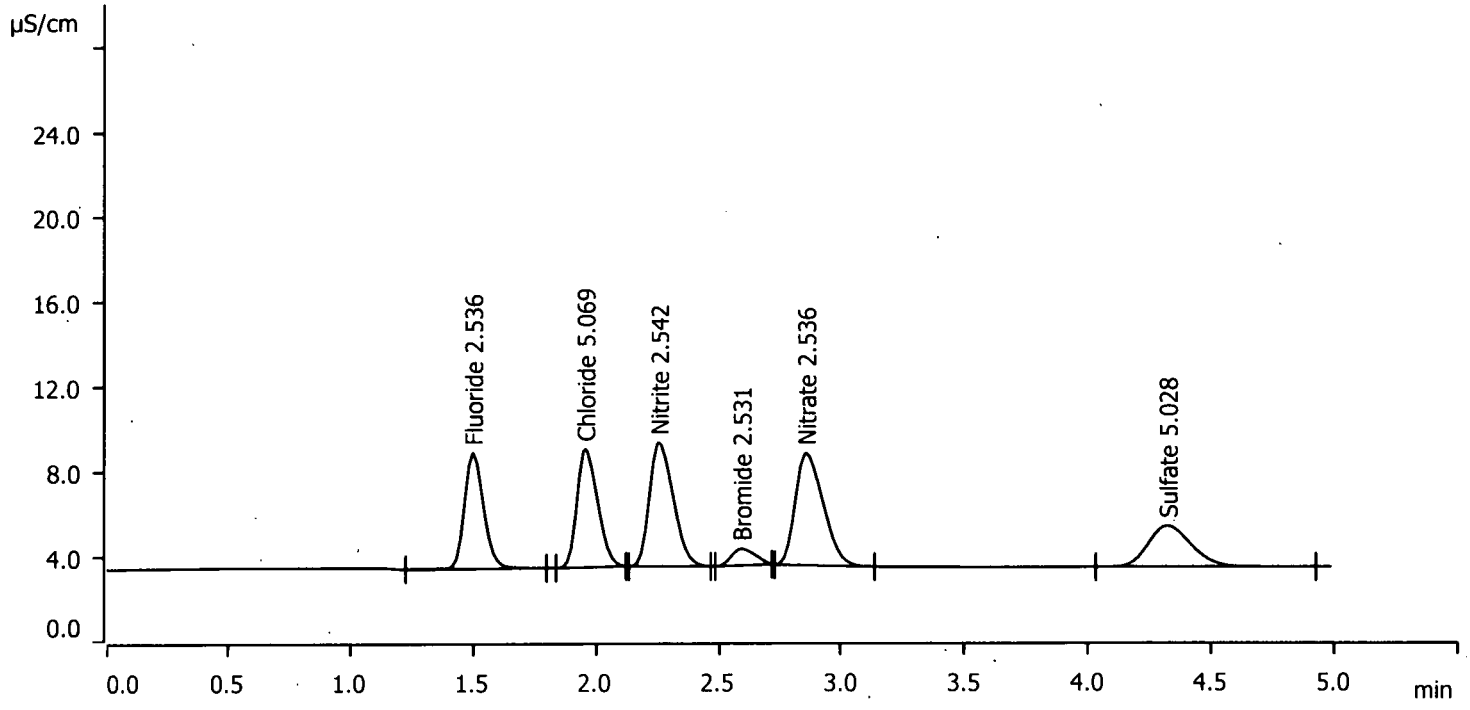
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.187	0.984	Fluoride	BB
2	1.95	0.195	1.972	Chloride	BB
3	2.25	0.239	0.983	Nitrite	BB
4	2.59	0.033	0.991	Bromide	BB
5	2.85	0.248	0.986	Nitrate	BB
6	4.31	0.149	1.994	Sulfate	BB

Sample data

Ident	STANDARD 6
Sample type	Standard 6
Determination start	2024-06-18 18:12:49 UTC-4
Method	10-061824FAST
Dilution	1
Counter	86318
Sample Position	64
Comment 1	300.0/9056A
Comment 2	

Anions



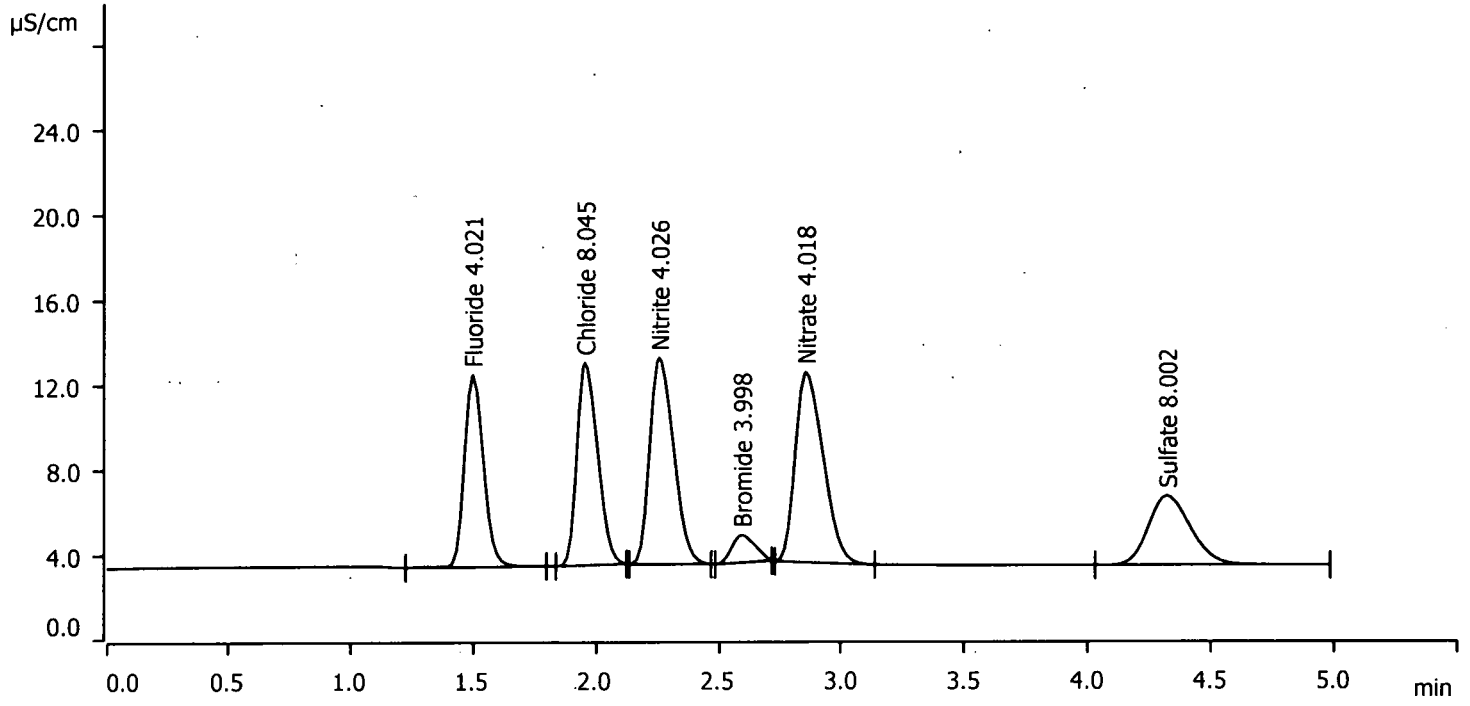
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.499	2.536	Fluoride	BB
2	1.96	0.548	5.069	Chloride	BB
3	2.26	0.662	2.542	Nitrite	BB
4	2.60	0.088	2.531	Bromide	BB
5	2.86	0.694	2.536	Nitrate	BB
6	4.32	0.391	5.028	Sulfate	BB

Sample data

Ident	STANDARD 7
Sample type	Standard 7
Determination start	2024-06-18 18:19:04 UTC-4
Method	10-061824FAST
Dilution	1
Counter	86319
Sample Position	65
Comment 1	300.0/9056A
Comment 2	

Anions



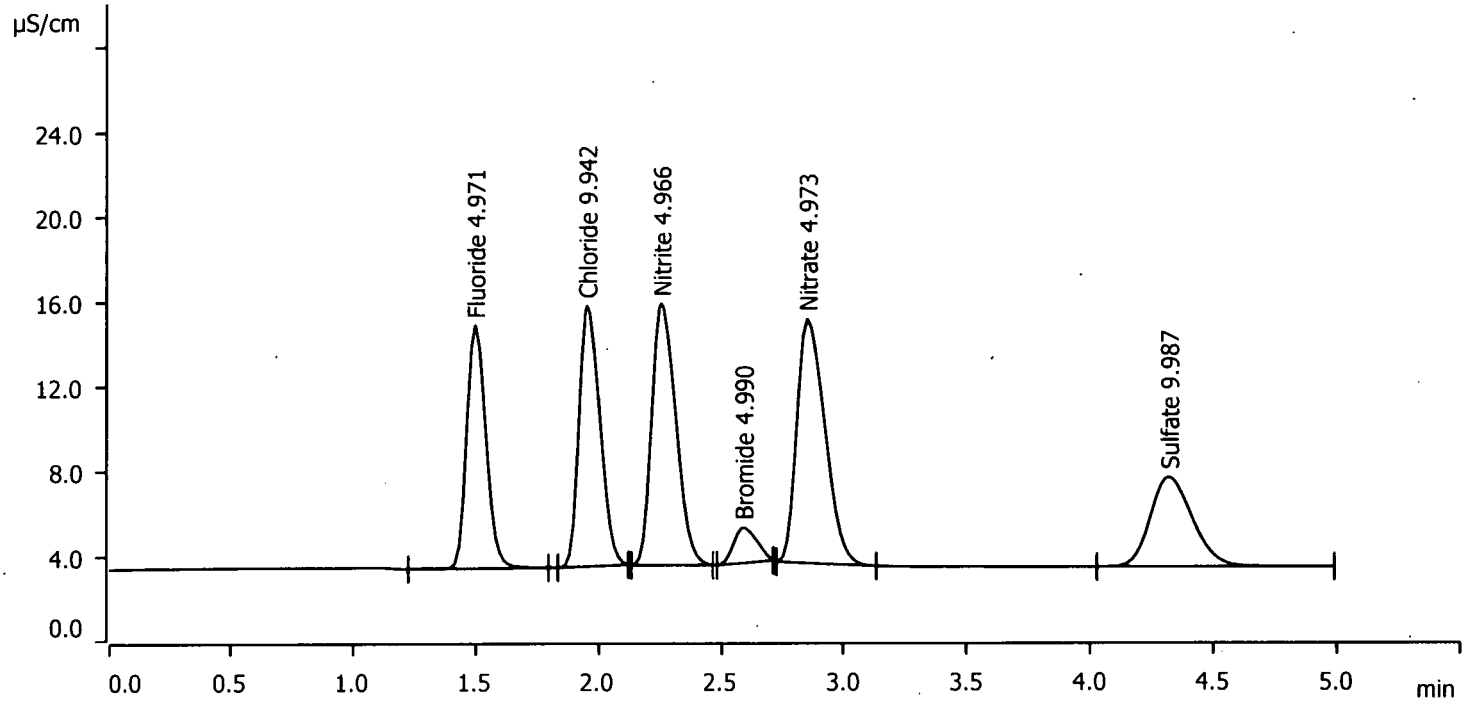
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.826	4.021	Fluoride	BB
2	1.96	0.933	8.045	Chloride	BB
3	2.26	1.108	4.026	Nitrite	BB
4	2.60	0.143	3.998	Bromide	BB
5	2.86	1.176	4.018	Nitrate	BB
6	4.32	0.649	8.002	Sulfate	BB

Sample data

Ident	STANDARD 8
Sample type	Standard 8
Determination start	2024-06-18 18:25:20 UTC-4
Method	10-061824FAST
Dilution	1
Counter	86320
Sample Position	66
Comment 1	300.0/9056A
Comment 2	

Anions



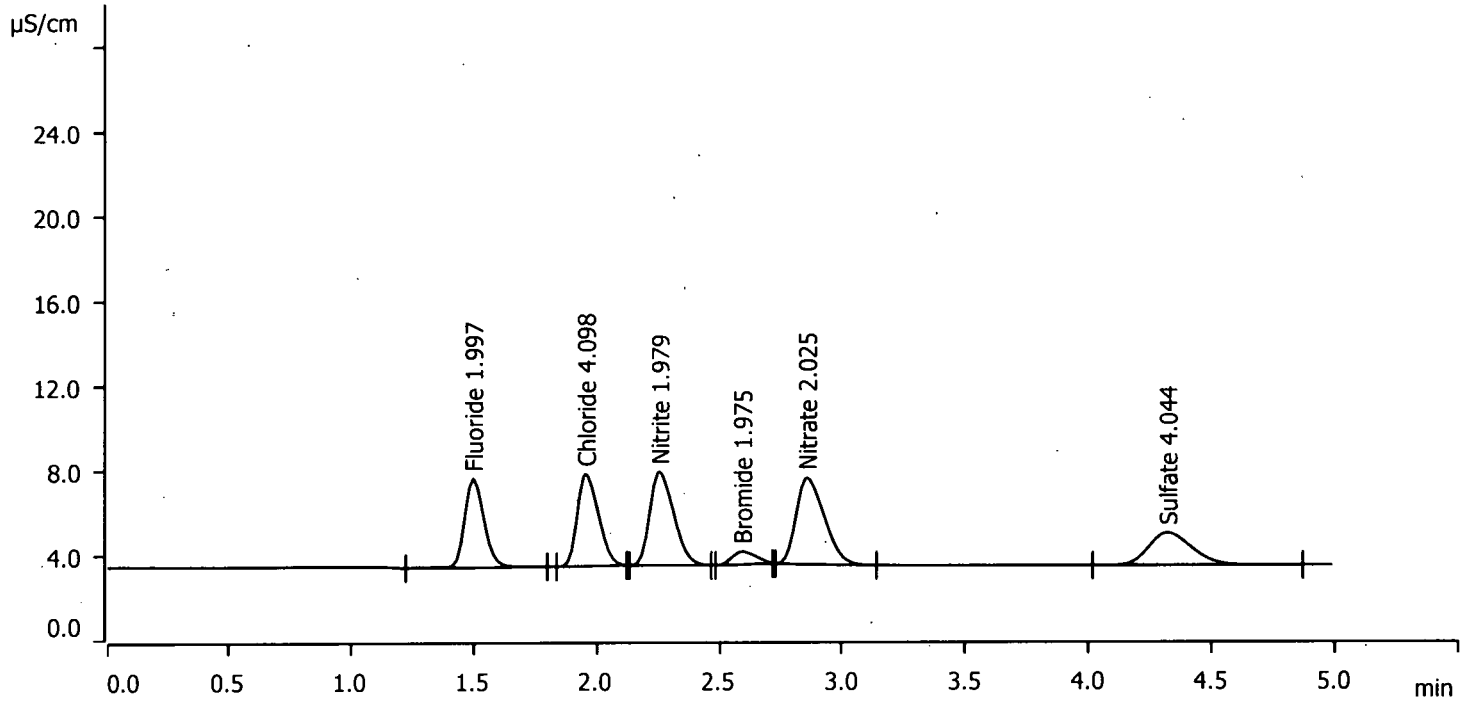
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	1.048	4.971	Fluoride	BB
2	1.96	1.201	9.942	Chloride	BB
3	2.26	1.414	4.966	Nitrite	BB
4	2.59	0.182	4.990	Bromide	BB
5	2.85	1.517	4.973	Nitrate	BB
6	4.32	0.832	9.987	Sulfate	BB

Sample data

Ident	ICV
Sample type	Check standard 1
Determination start	2024-06-18 19:30:55 UTC-4
Method	10-061824FAST
Dilution	1
Counter	86321
Sample Position	67
Comment 1	300.0/9056A
Comment 2	

Anions



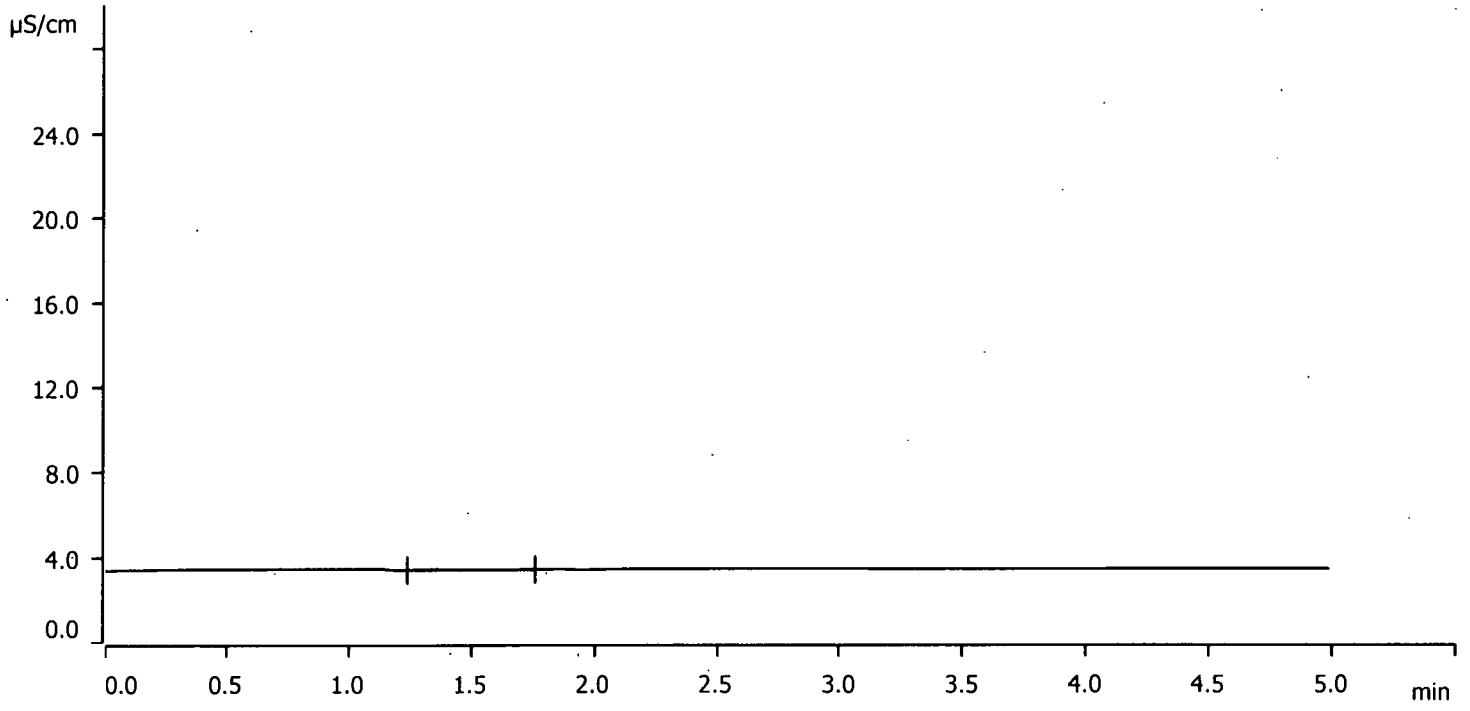
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.388	1.997	Fluoride	BB
2	1.96	0.432	4.098	Chloride	BB
3	2.26	0.504	1.979	Nitrite	BB
4	2.60	0.068	1.975	Bromide	BB
5	2.86	0.540	2.025	Nitrate	BB
6	4.32	0.310	4.044	Sulfate	BB

Sample data

Ident	ICB
Sample type	Sample
Determination start	2024-06-18 19:37:12 UTC-4
Method	10-061824FAST
Dilution	1
Counter	86322
Sample Position	68
Comment 1	300.0/9056A
Comment 2	

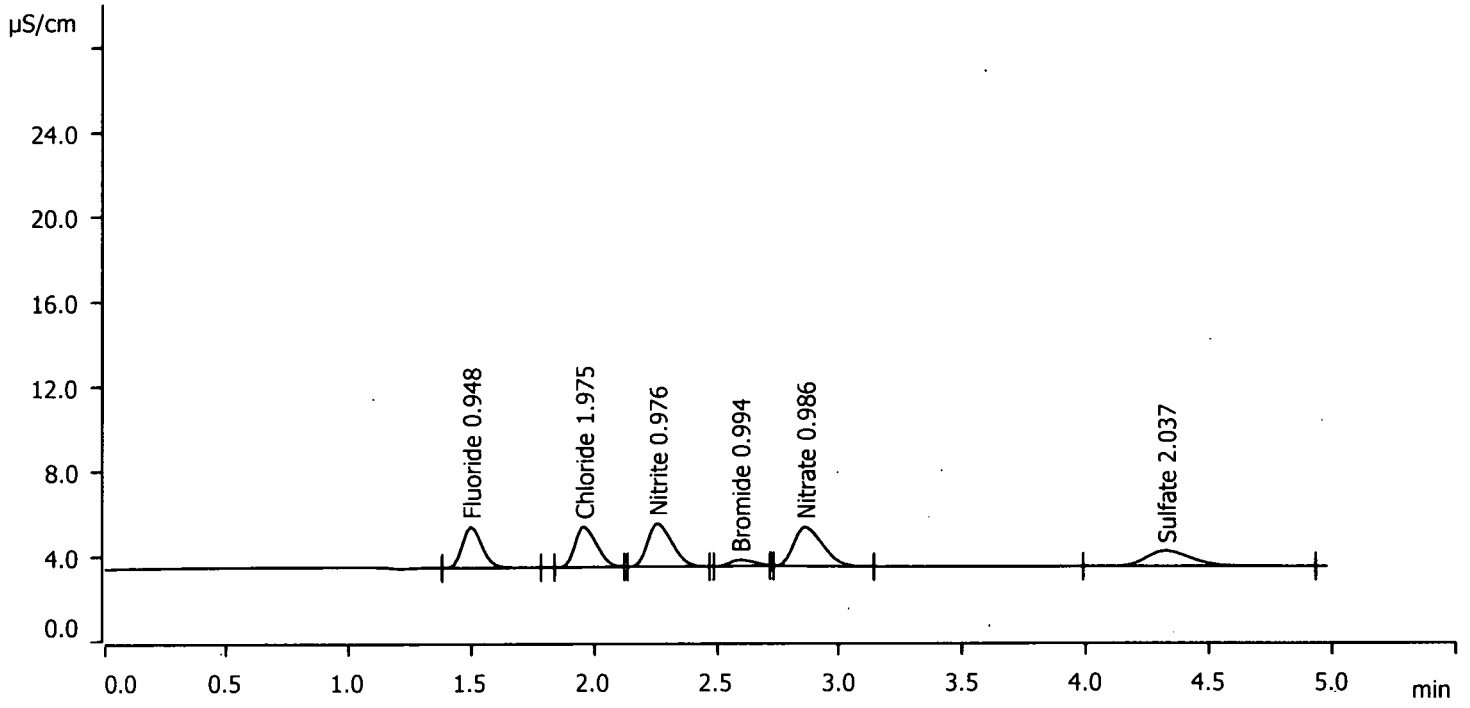
Anions



Sample data

Ident	LCS
Sample type	Check standard 2
Determination start	2024-06-18 19:43:26 UTC-4
Method	10-061824FAST
Dilution	1
Counter	86323
Sample Position	69
Comment 1	300.0/9056A
Comment 2	

Anions



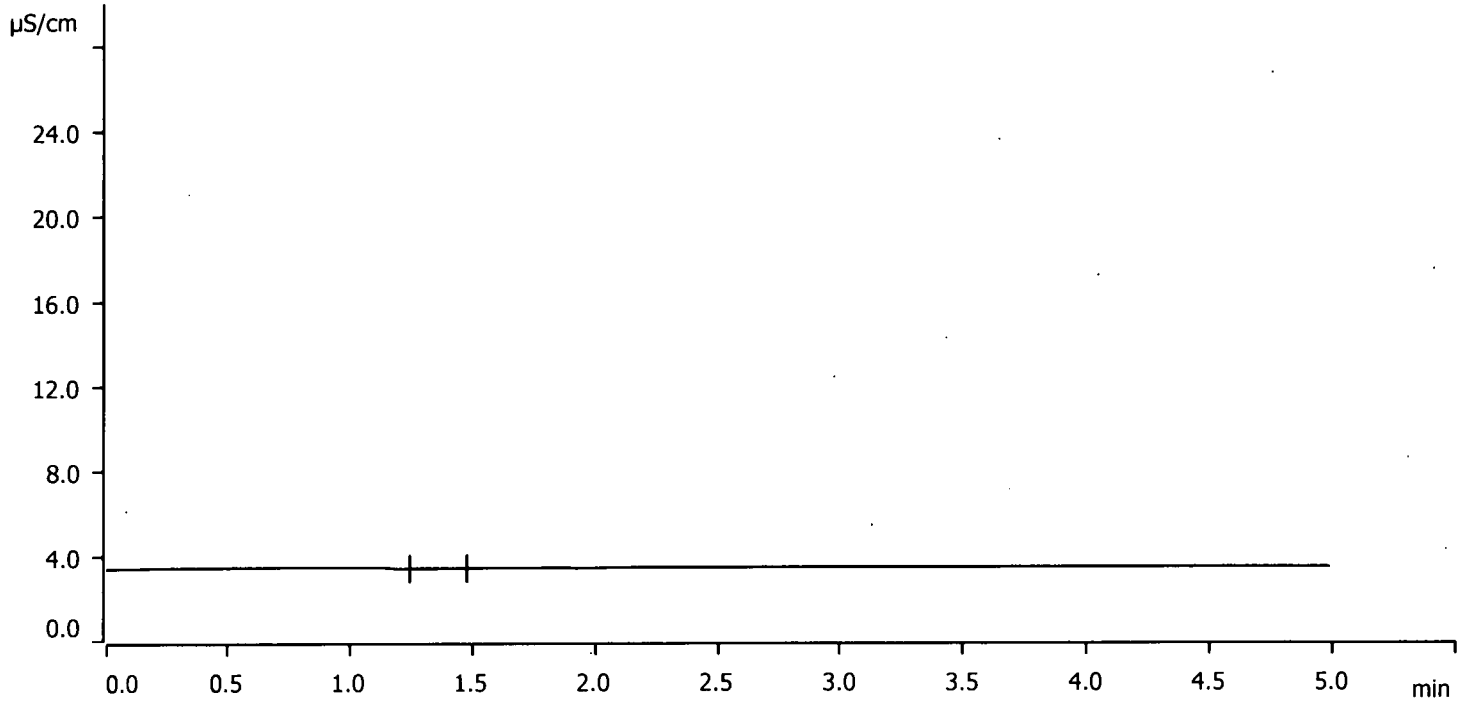
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.180	0.948	Fluoride	BB
2	1.96	0.195	1.975	Chloride	BB
3	2.26	0.237	0.976	Nitrite	BB
4	2.60	0.033	0.994	Bromide	BB
5	2.86	0.249	0.986	Nitrate	BB
6	4.32	0.152	2.037	Sulfate	BB

Sample data

Ident	R2405157-012 DNR
Sample type	Sample
Determination start	2024-06-18 19:49:44 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86324
Sample Position	35
Comment 1	300.0 F
Comment 2	REPEAT STRAIGHT

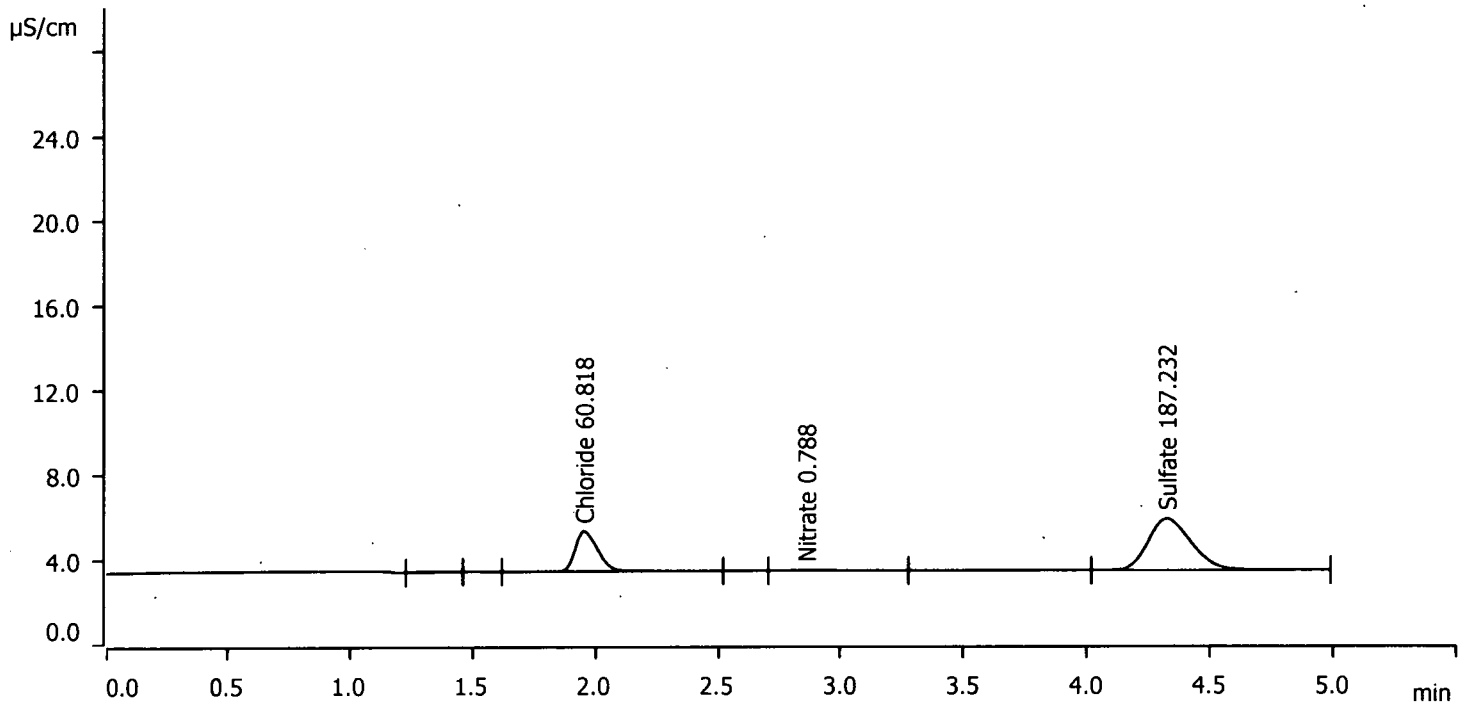
Anions



Sample data

Ident	R2404674-007
Sample type	Sample
Determination start	2024-06-18 19:56:03 UTC-4
Method	10-051424FAST
Dilution	30
Counter	86325
Sample Position	36
Comment 1	300.0 S
Comment 2	

Anions



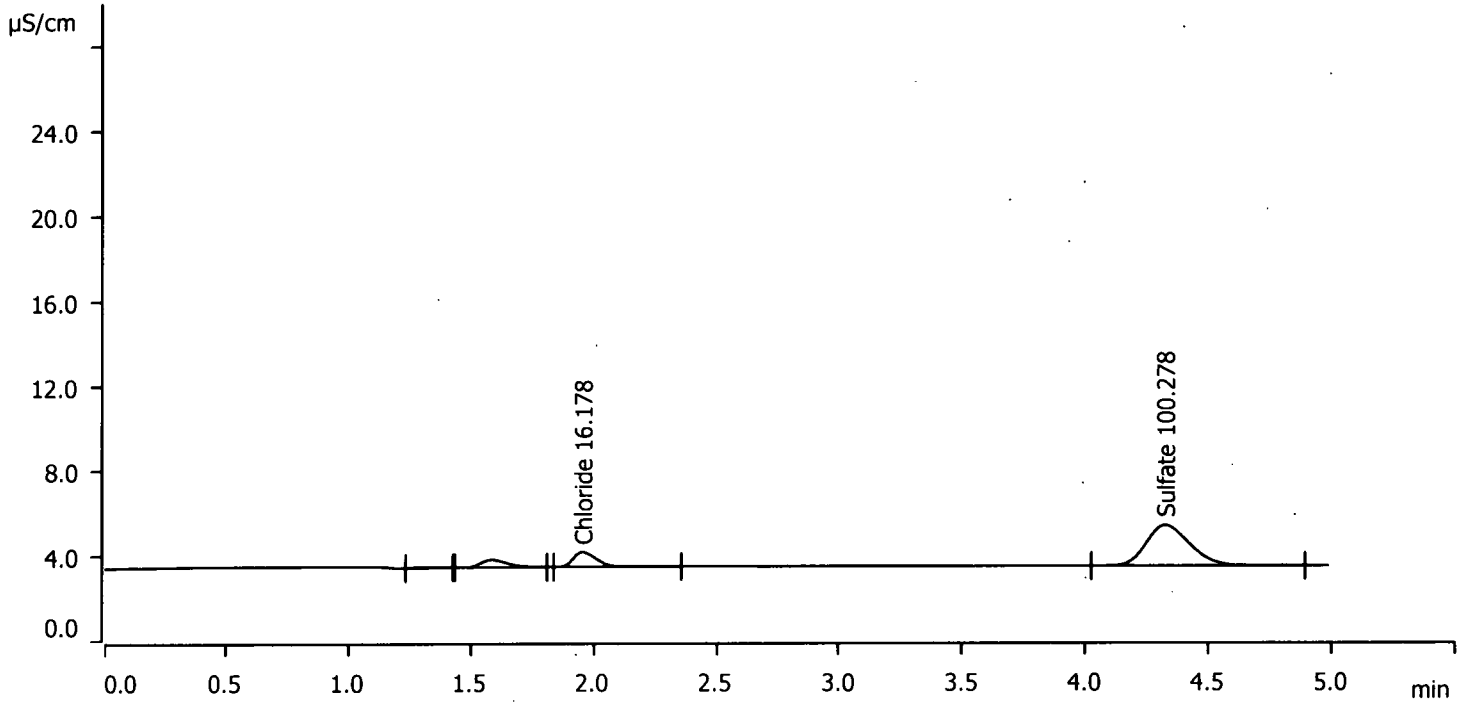
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.96	0.201	60.818	Chloride	BB
3	2.86	0.004	0.788	Nitrate	BBI
4	4.32	0.494	187.232	Sulfate	BB

Sample data

Ident	R2404674-008
Sample type	Sample
Determination start	2024-06-18 20:02:19 UTC-4
Method	10-051424FAST
Dilution	20
Counter	86326
Sample Position	37
Comment 1	300.0 S
Comment 2	

Anions



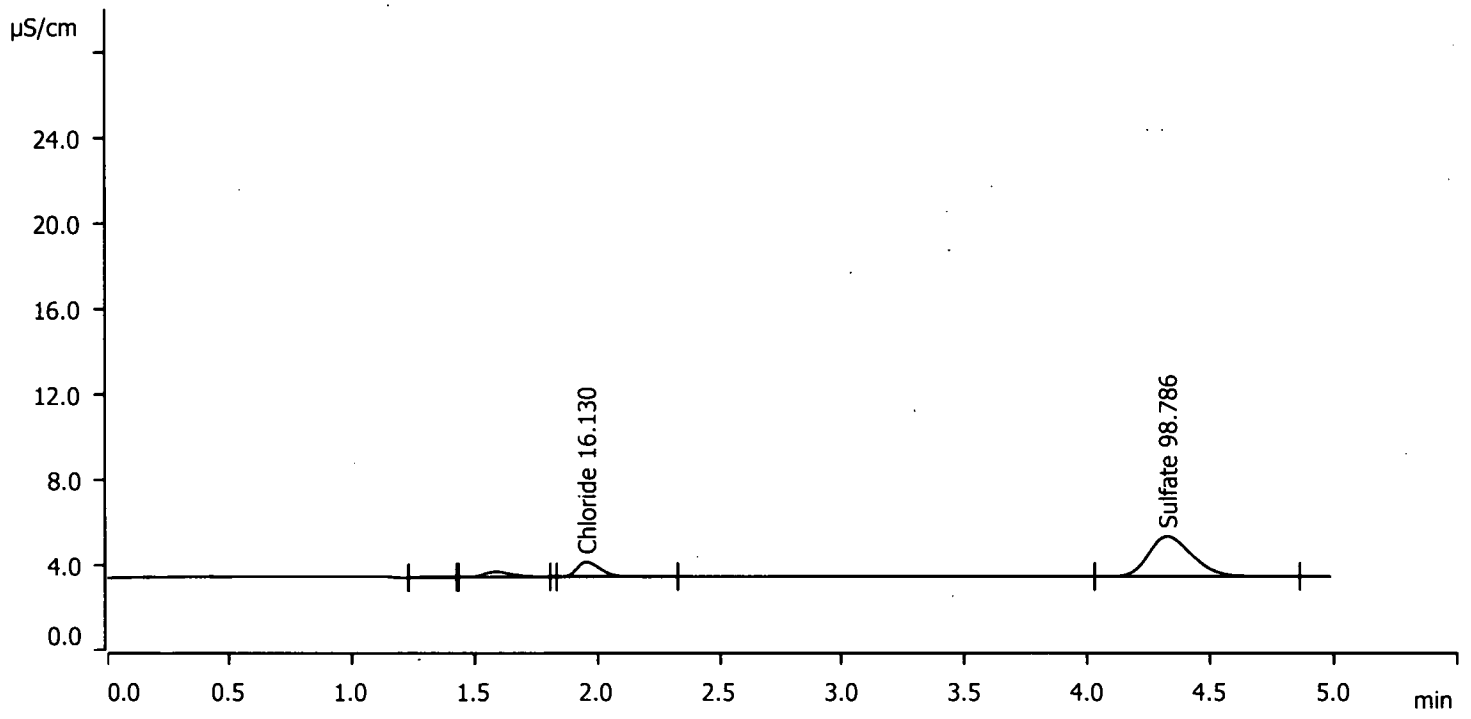
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
3	1.96	0.075	16.178	Chloride	BB
4	4.32	0.390	100.278	Sulfate	BB

Sample data

Ident	R2404674-013
Sample type	Sample
Determination start	2024-06-18 20:08:36 UTC-4
Method	10-051424FAST
Dilution	20
Counter	86327
Sample Position	38
Comment 1	300.0 S
Comment 2	

Anions



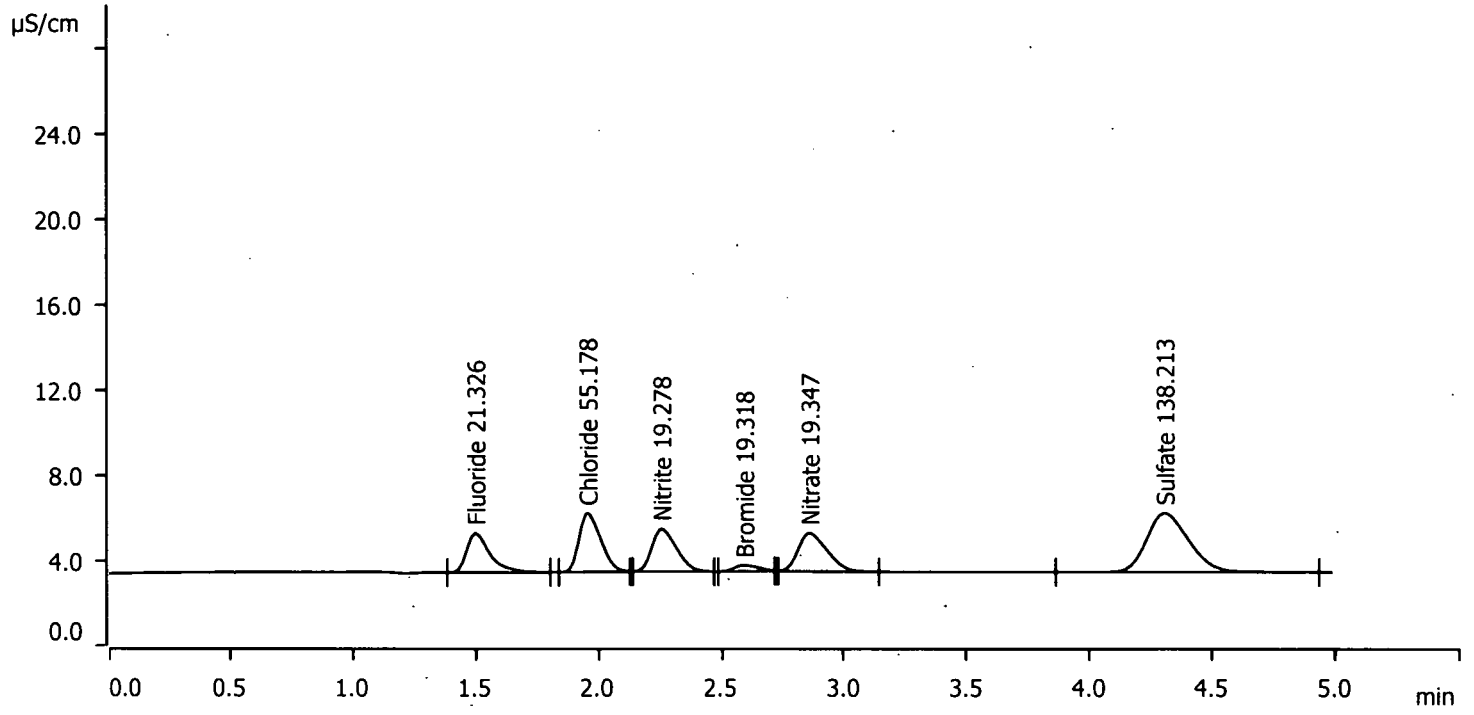
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
3	1.96	0.074	16.130	Chloride	BB
4	4.33	0.384	98.786	Sulfate	BB

Sample data

Ident	R2404674-013 MS
Sample type	Sample
Determination start	2024-06-18 20:14:52 UTC-4
Method	10-051424FAST
Dilution	20
Counter	86328
Sample Position	39
Comment 1	300.0 S
Comment 2	

Anions



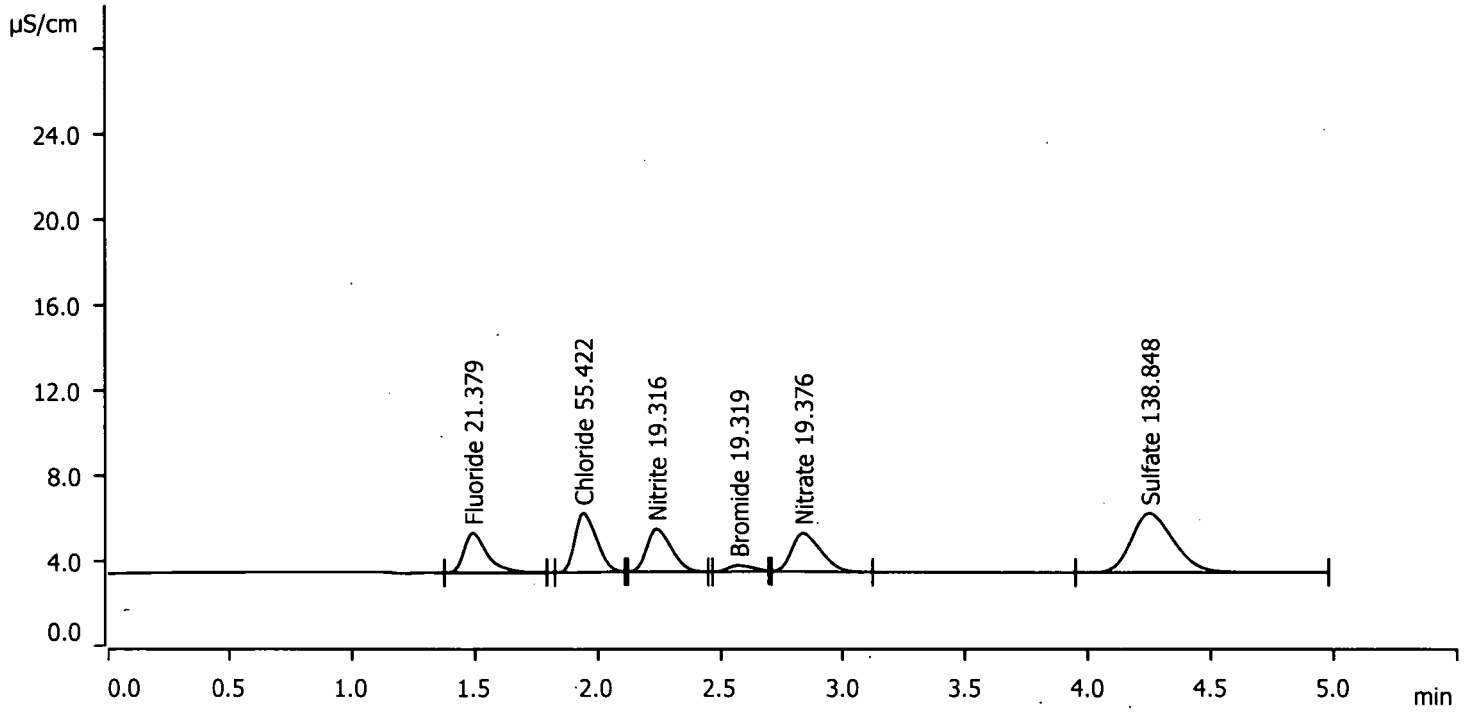
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.203	21.326	Fluoride	BB
2	1.96	0.280	55.178	Chloride	BB
3	2.26	0.234	19.278	Nitrite	BB
4	2.60	0.032	19.318	Bromide	BB
5	2.86	0.244	19.347	Nitrate	BB
6	4.31	0.552	138.213	Sulfate	BB

Sample data

Ident	R2404674-013 MSD
Sample type	Sample
Determination start	2024-06-18 20:21:09 UTC-4
Method	10-051424FAST
Dilution	20
Counter	86329
Sample Position	40
Comment 1	300.0 S
Comment 2	

Anions



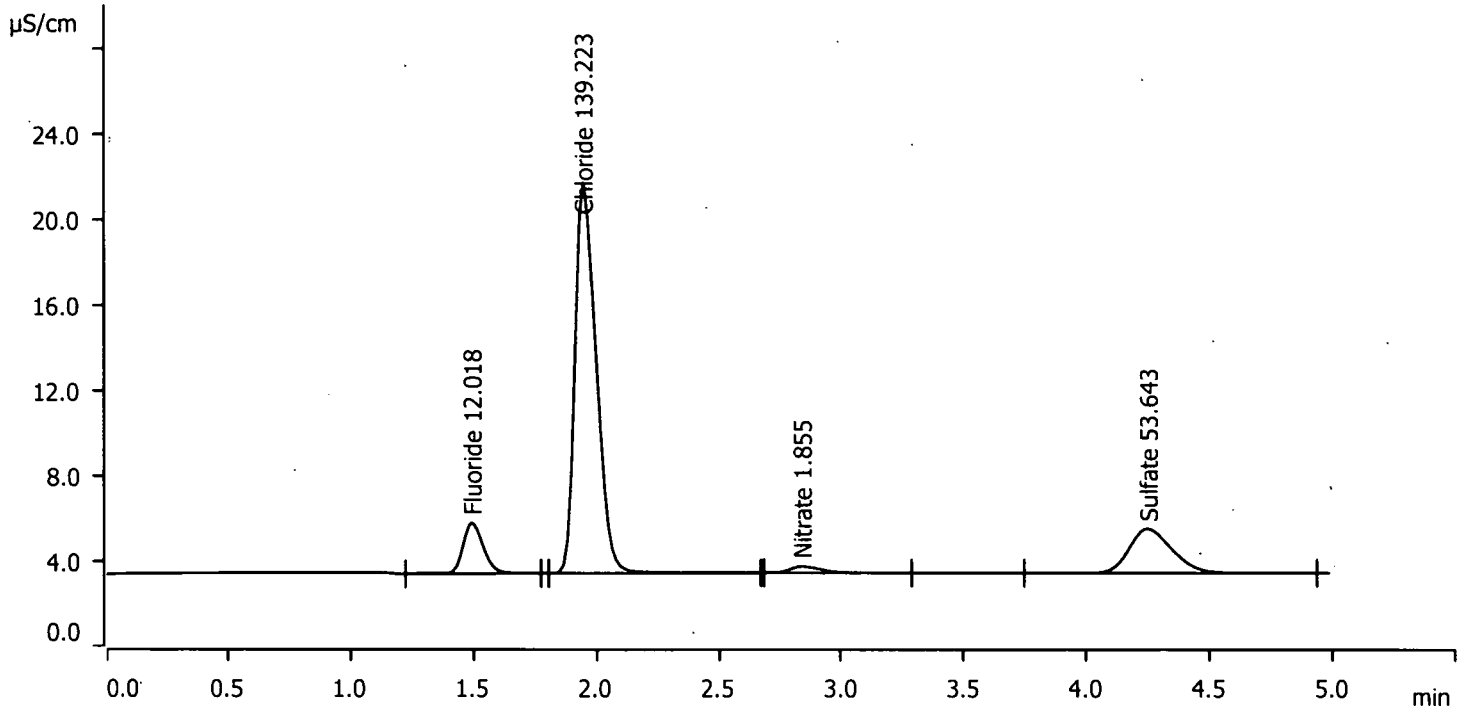
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.203	21.379	Fluoride	BB
2	1.95	0.281	55.422	Chloride	BB
3	2.24	0.235	19.316	Nitrite	BB
4	2.58	0.032	19.319	Bromide	BB
5	2.84	0.244	19.376	Nitrate	BB
6	4.25	0.555	138.848	Sulfate	BB

Sample data

Ident	R2405157-012
Sample type	Sample
Determination start	2024-06-18 20:27:26 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86330
Sample Position	44
Comment 1	300.0 F
Comment 2	

Anions



Anions

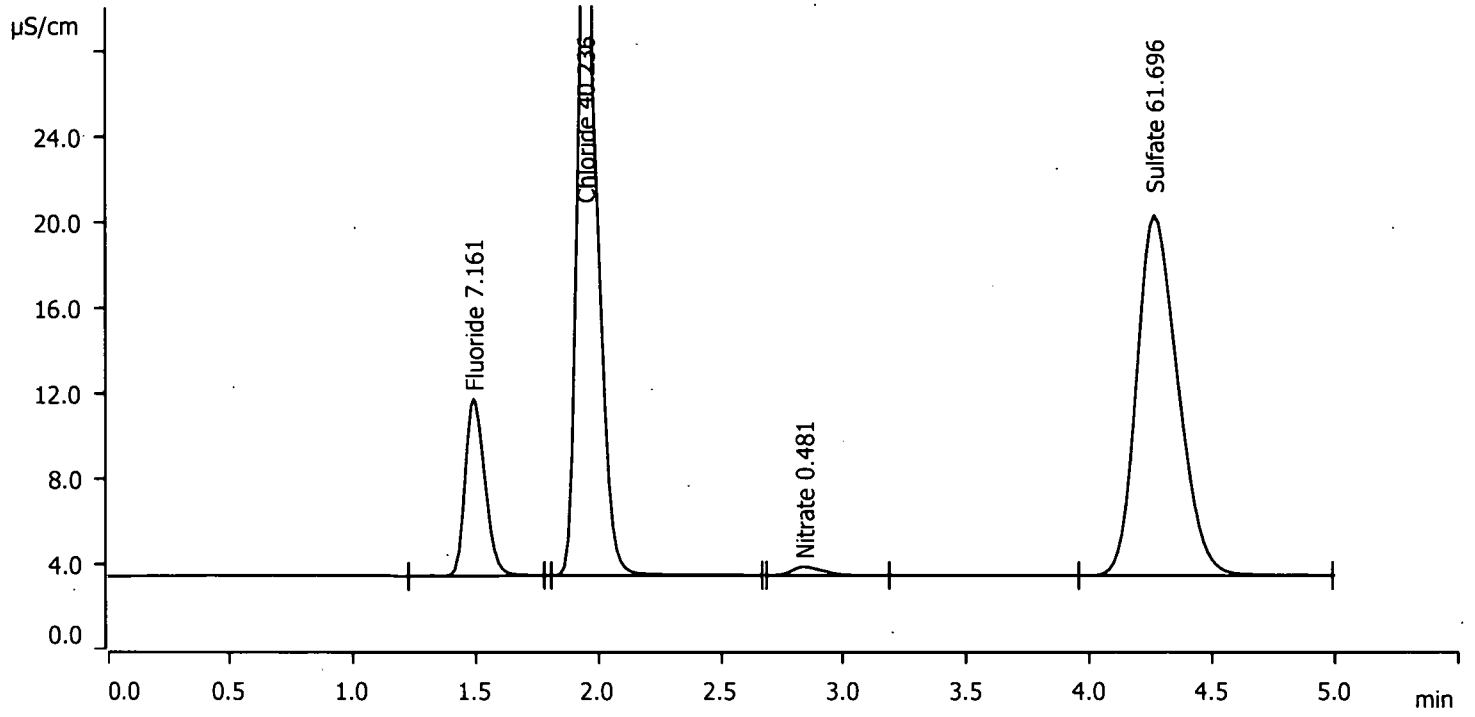
Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.229	12.018	Fluoride	BB
2	1.95	1.823	139.223	Chloride	BB
3	2.84	0.043	1.855	Nitrate	BB
4	4.25	0.420	53.643	Sulfate	BB

Not reported

Sample data

Ident	R2405142-001
Sample type	Sample
Determination start	2024-06-18 20:33:43 UTC-4
Method	10-051424FAST
Dilution	2
Counter	86331
Sample Position	45
Comment 1	300.0 F
Comment 2	

Anions



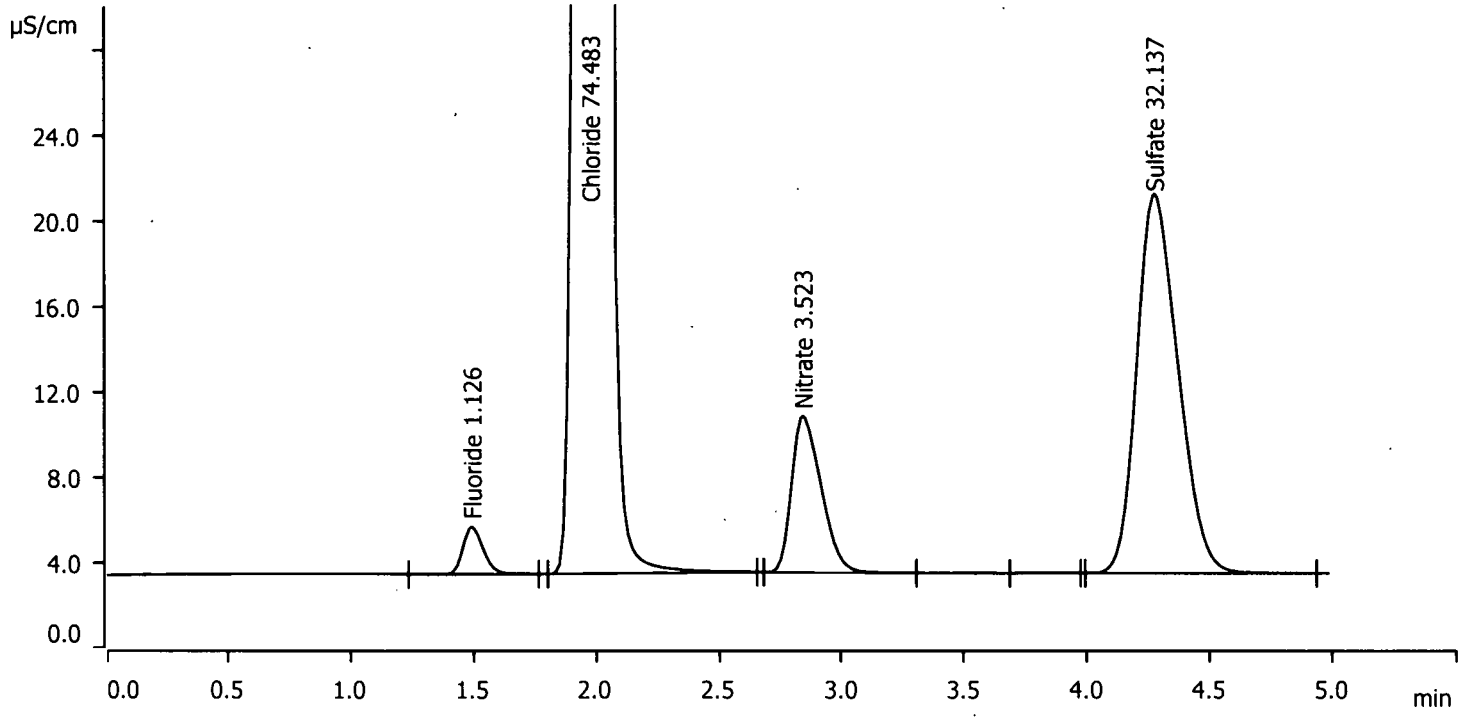
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.726	7.161	Fluoride	BB
2	1.94	2.949	40.236	Chloride	BB
3	2.83	0.056	0.481	Nitrate	BB
4	4.25	3.288	61.696	Sulfate	BB

Sample data

Ident	R2405157-001
Sample type	Sample
Determination start	2024-06-18 20:40:04 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86332
Sample Position	46
Comment 1	300.0 F
Comment 2	

Anions



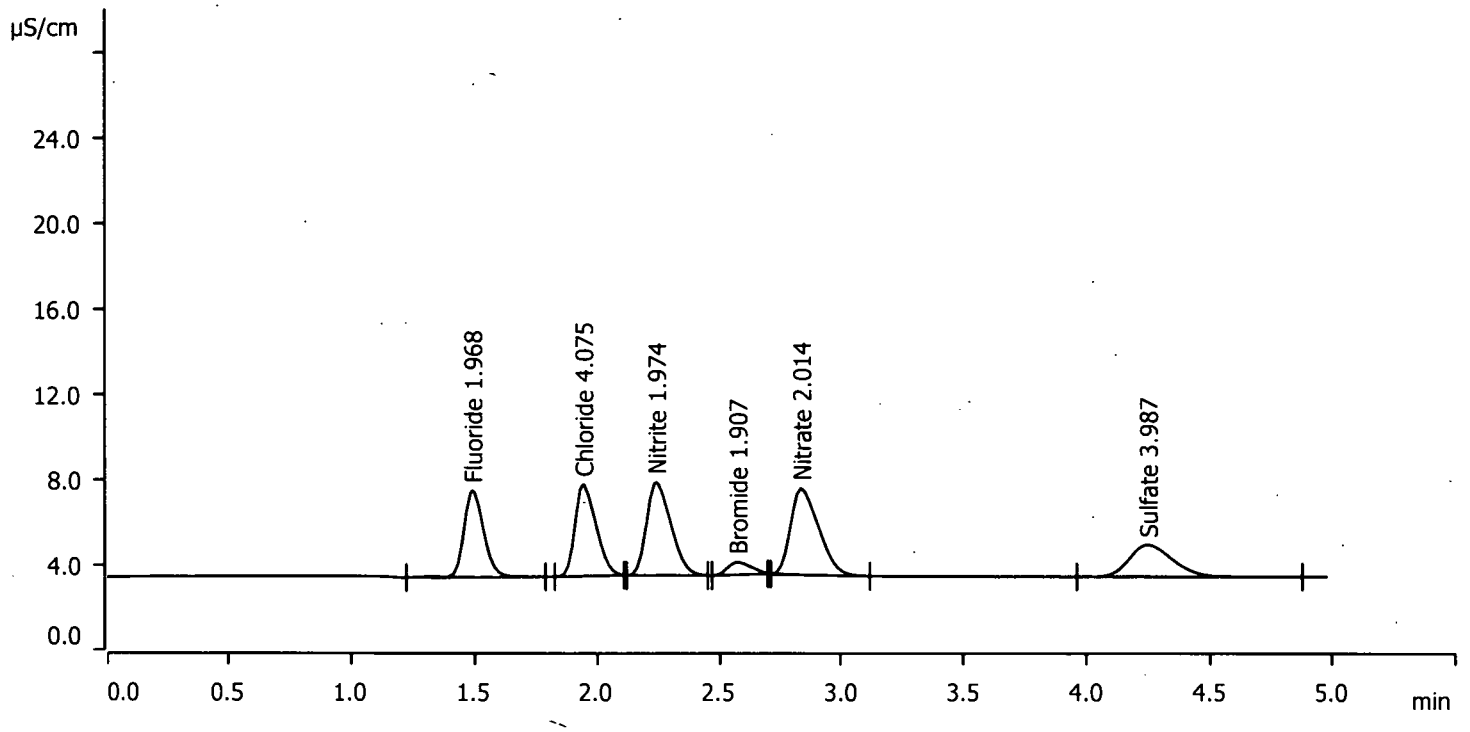
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.214	1.126	Fluoride	BB
2	1.98	21.065	74.483	Chloride	BB
3	2.84	1.009	3.523	Nitrate	BB
5	4.27	3.471	32.137	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-06-18 20:46:22 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86333
Sample Position	41
Comment 1	300.0/9056A
Comment 2	

Anions



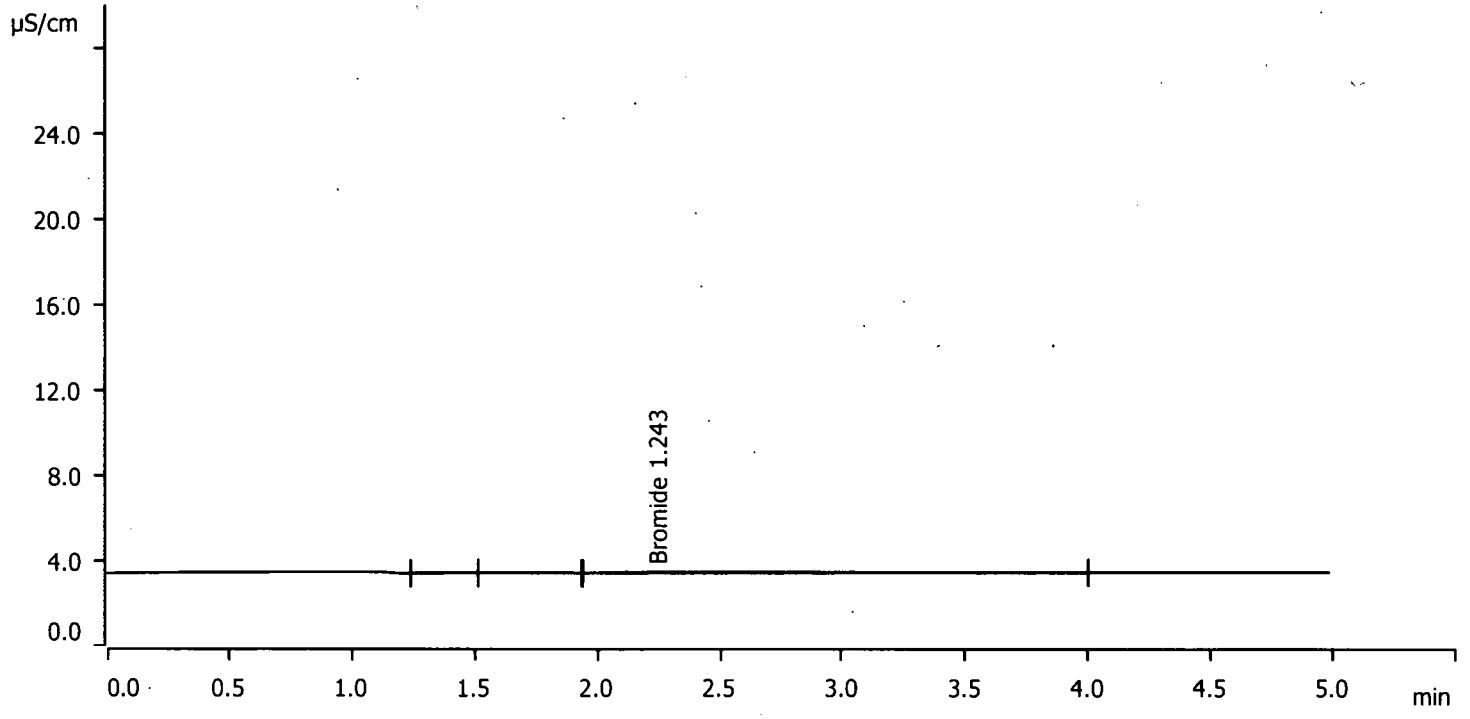
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.49	0.382	1.968	Fluoride	BB
2	1.95	0.430	4.075	Chloride	BB
3	2.24	0.502	1.974	Nitrite	BB
4	2.58	0.065	1.907	Bromide	BB
5	2.84	0.537	2.014	Nitrate	BB
6	4.25	0.306	3.987	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-06-18 20:52:44 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86334
Sample Position	42
Comment 1	300.0/9056A
Comment 2	

Anions



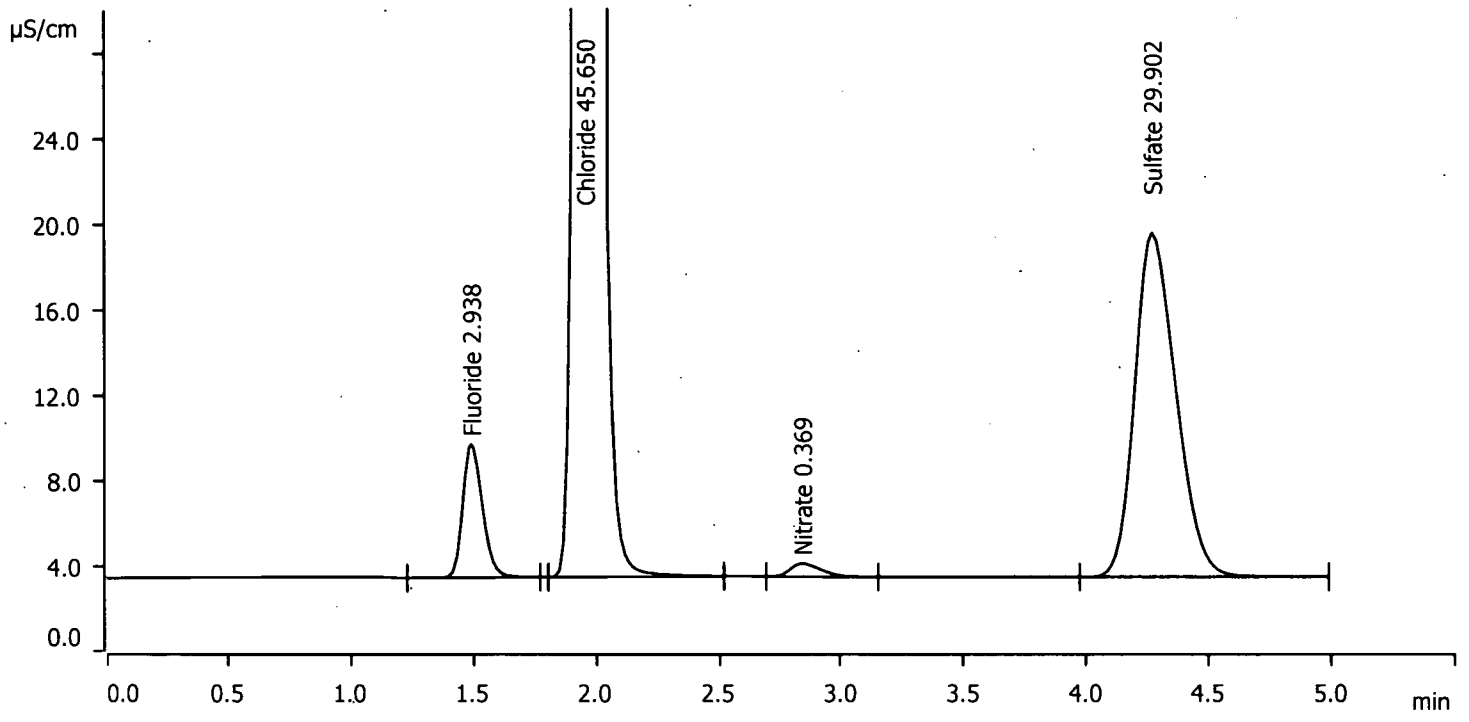
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
3	2.60	0.042	1.243	Bromide	BB

Sample data

Ident	R2405157-003
Sample type	Sample
Determination start	2024-06-18 20:59:01 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86335
Sample Position	47
Comment 1	300.0 F
Comment 2	

Anions



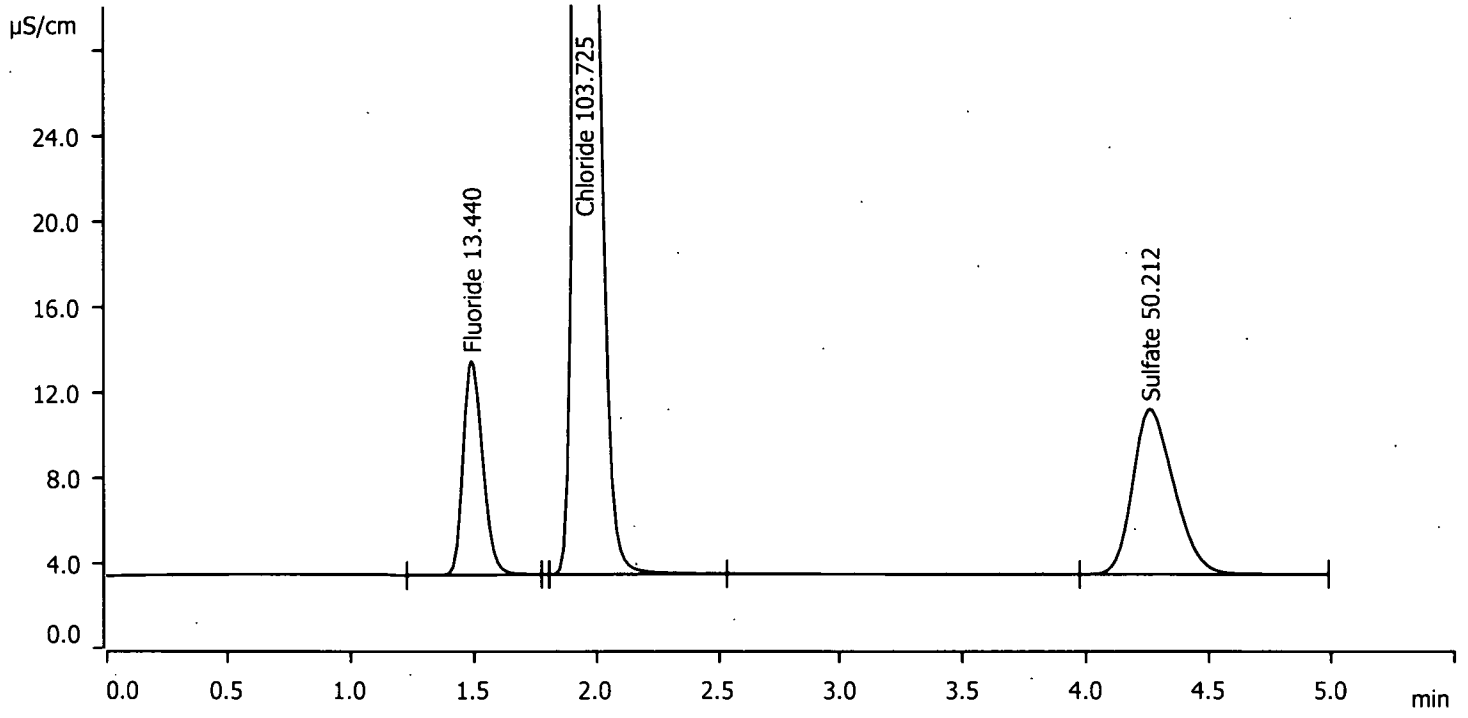
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.49	0.585	2.938	Fluoride	BB
2	1.96	9.614	45.650	Chloride	BB
3	2.84	0.089	0.369	Nitrate	BB
4	4.27	3.155	29.902	Sulfate	BB

Sample data

Ident	R2405157-004 DNR
Sample type	Sample
Determination start	2024-06-18 21:05:23 UTC-4
Method	10-051424FAST
Dilution	3
Counter	86336
Sample Position	48
Comment 1	300.0 F
Comment 2	REPEAT @ 5

Anions



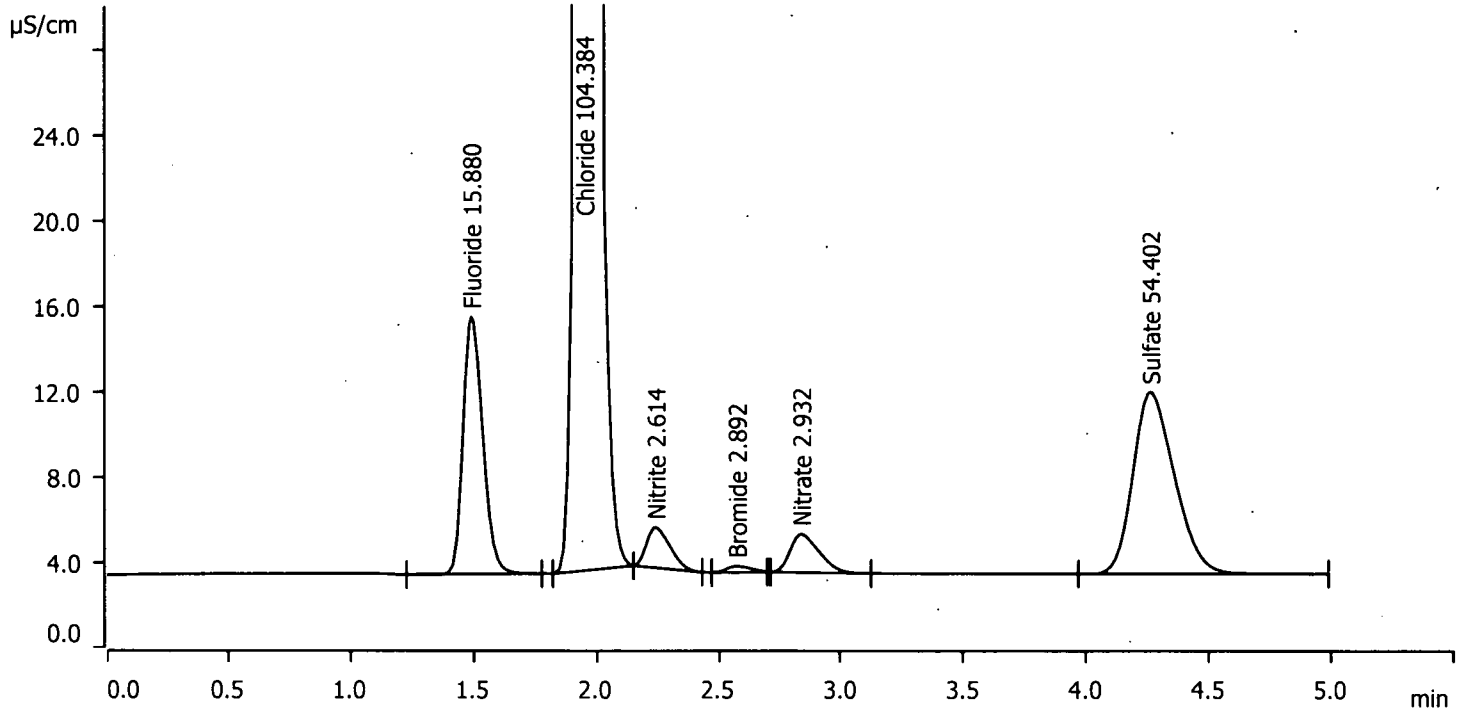
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.49	0.932	13.440	Fluoride	BB
2	1.95	6.322	103.725	Chloride	BB
3	4.26	1.521	50.212	Sulfate	BB

Sample data

Ident	R2405157-004 MS! DNR
Sample type	Sample
Determination start	2024-06-18 21:11:39 UTC-4
Method	10-051424FAST
Dilution	3
Counter	86337
Sample Position	49
Comment 1	300.0 F
Comment 2	REPEAT @ 5

Anions



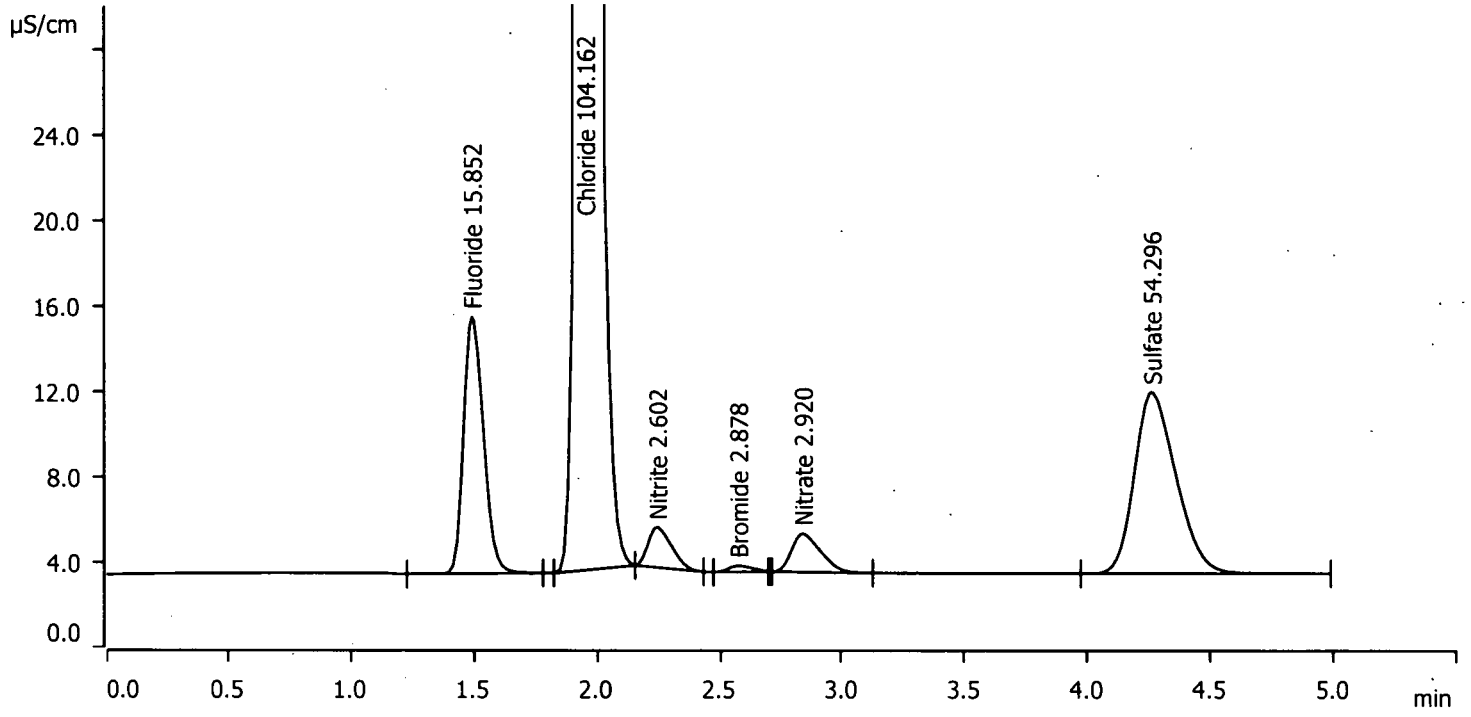
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.49	1.126	15.880	Fluoride	BB
2	1.95	6.381	104.384	Chloride	BB
3	2.24	0.210	2.614	Nitrite	BB
4	2.58	0.032	2.892	Bromide	BB
5	2.84	0.246	2.932	Nitrate	BB
6	4.26	1.676	54.402	Sulfate	BB

Sample data

Ident	R2405157-004 MSD! DNR
Sample type	Sample
Determination start	2024-06-18 21:17:56 UTC-4
Method	10-051424FAST
Dilution	3
Counter	86338
Sample Position	50
Comment 1	300.0 F
Comment 2	REPEAT @ 5

Anions



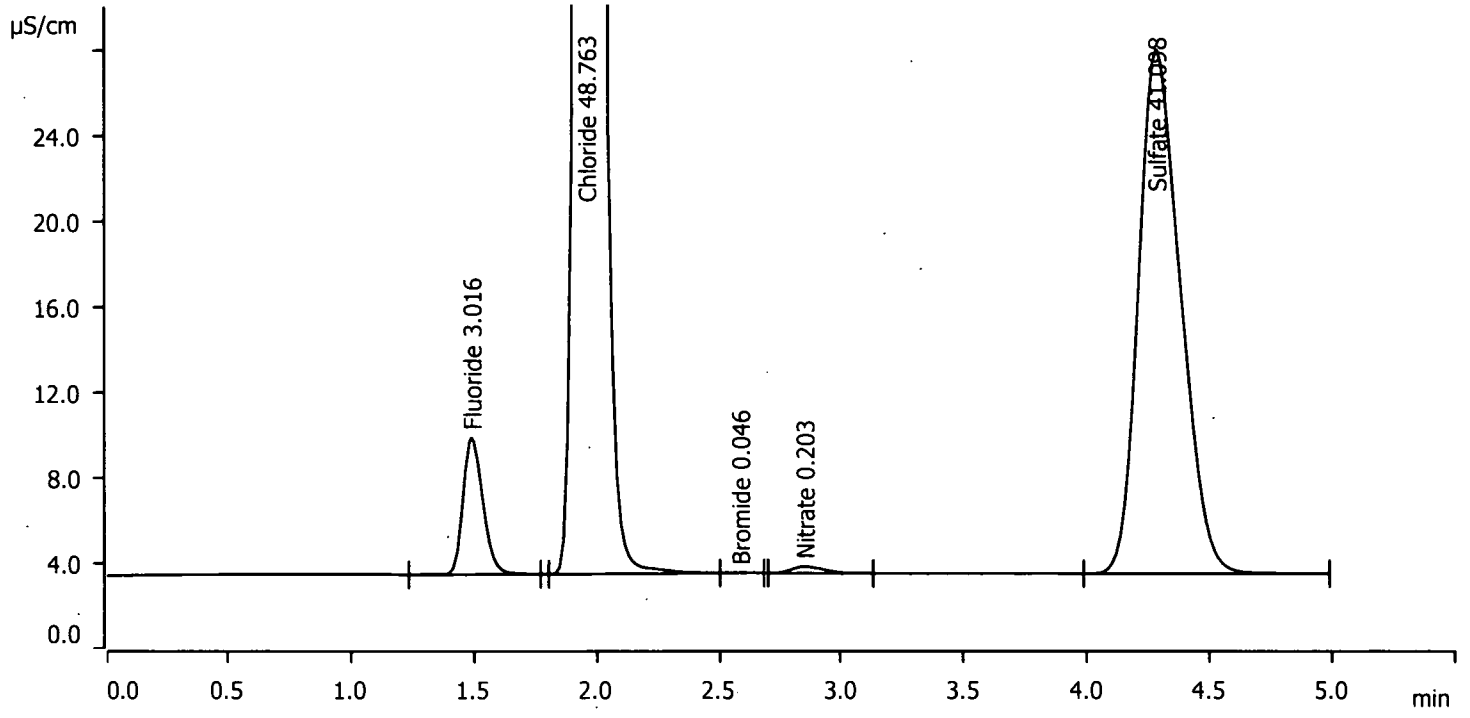
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	1.124	15.852	Fluoride	BB
2	1.96	6.361	104.162	Chloride	BB
3	2.25	0.209	2.602	Nitrite	BB
4	2.58	0.032	2.878	Bromide	BB
5	2.84	0.245	2.920	Nitrate	BB
6	4.26	1.672	54.296	Sulfate	BB

Sample data

Ident	R2405157-005
Sample type	Sample
Determination start	2024-06-18 21:24:13 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86339
Sample Position	51
Comment 1	300.0 F
Comment 2	

Anions



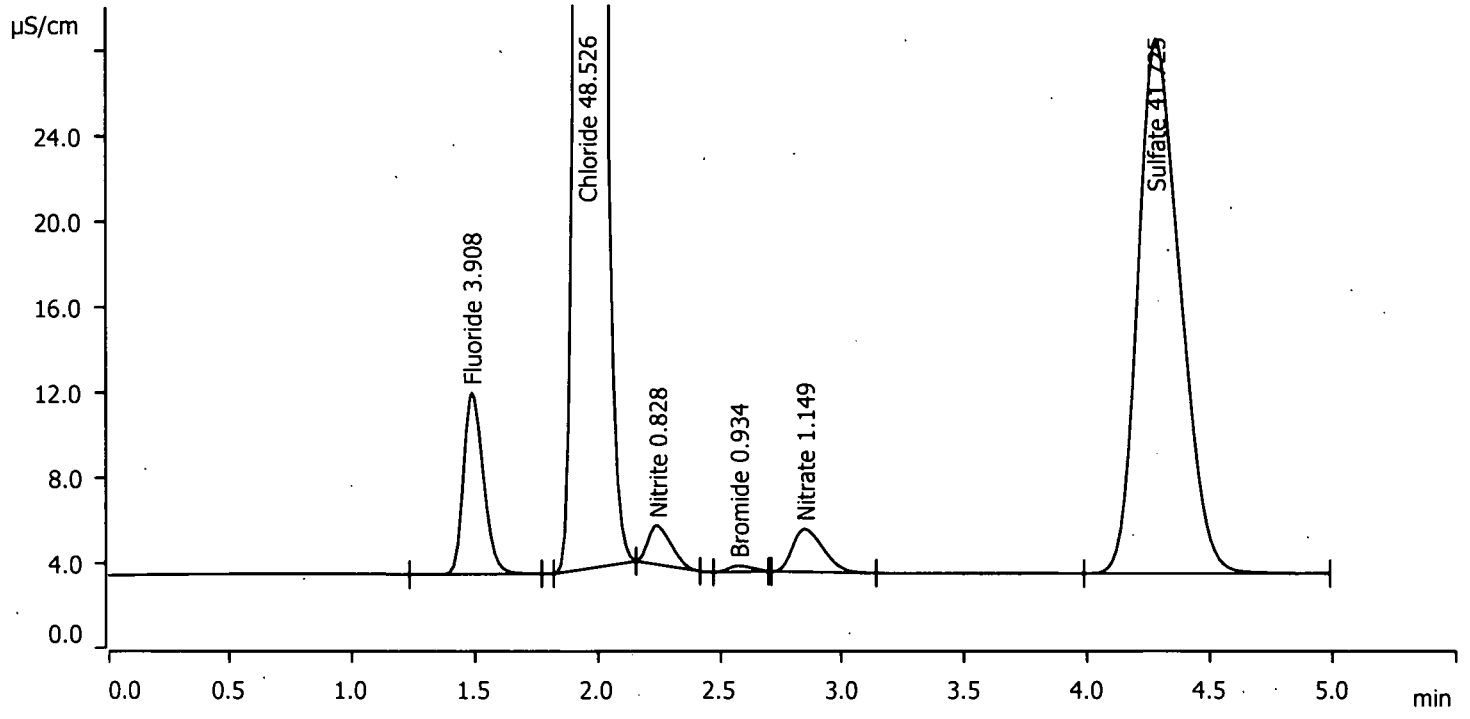
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.49	0.602	3.016	Fluoride	BB
2	1.96	10.650	48.763	Chloride	BB
3	2.58	0.001	0.046	Bromide	BB
4	2.85	0.047	0.203	Nitrate	BB
5	4.28	4.849	41.098	Sulfate	BB

Sample data

Ident	R2405157-005 MS!
Sample type	Sample
Determination start	2024-06-18 21:30:30 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86340
Sample Position	52
Comment 1	300.0 F
Comment 2	

Anions



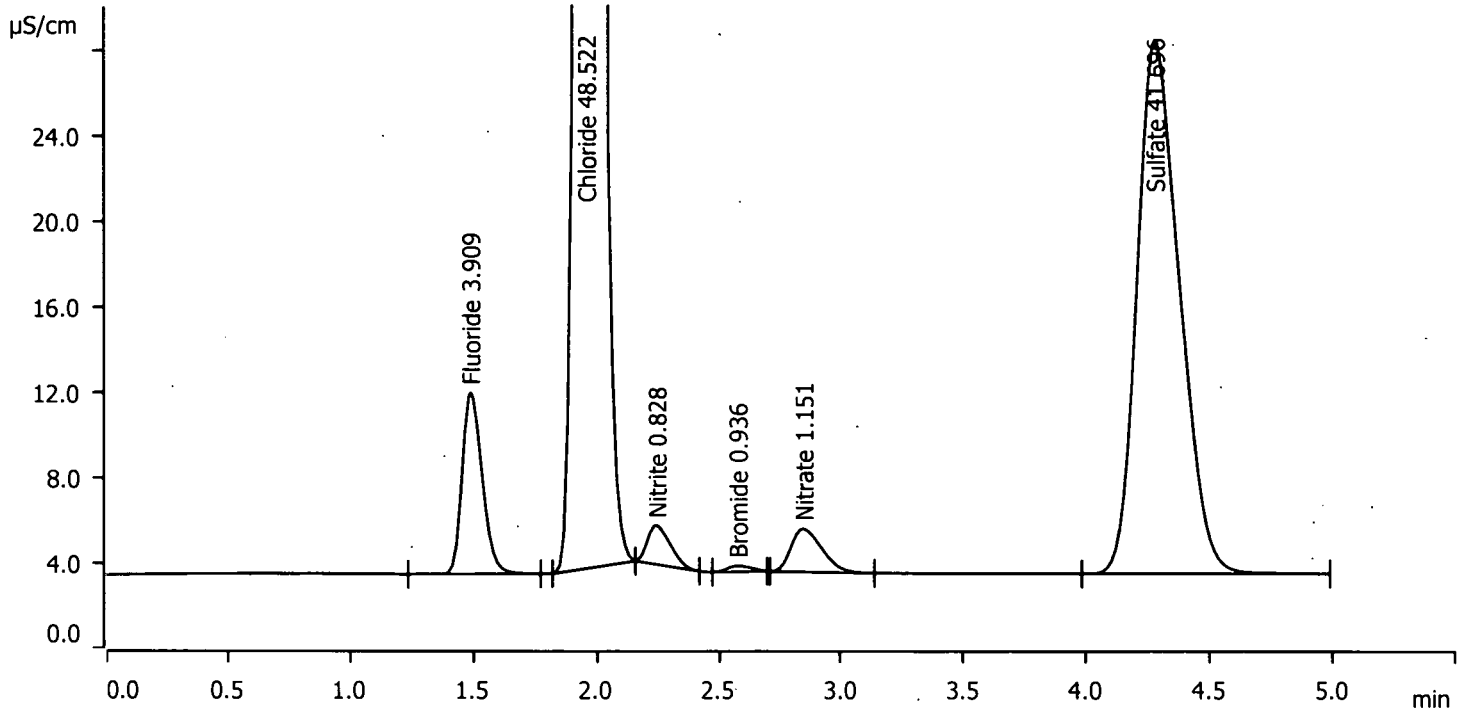
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.49	0.800	3.908	Fluoride	BB
2	1.96	10.570	48.526	Chloride	BB
3	2.24	0.199	0.828	Nitrite	BB
4	2.58	0.031	0.934	Bromide	BB
5	2.85	0.293	1.149	Nitrate	BB
6	4.28	4.952	41.725	Sulfate	BB

Sample data

Ident	R2405157-005 MSD!
Sample type	Sample
Determination start	2024-06-18 21:36:49 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86341
Sample Position	55
Comment 1	300.0 F
Comment 2	

Anions



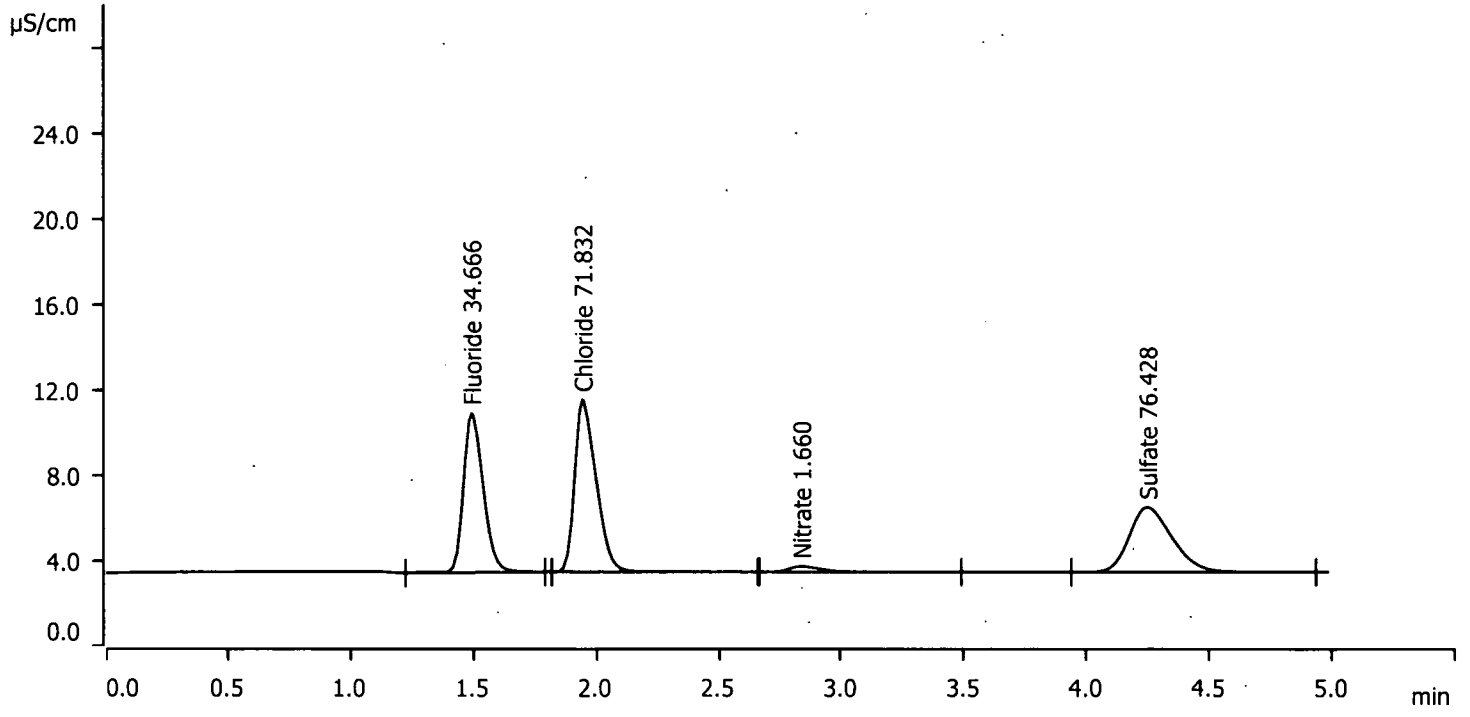
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.49	0.800	3.909	Fluoride	BB
2	1.96	10.568	48.522	Chloride	BB
3	2.24	0.200	0.828	Nitrite	BB
4	2.58	0.031	0.936	Bromide	BB
5	2.85	0.293	1.151	Nitrate	BB
6	4.28	4.947	41.696	Sulfate	BB

Sample data

Ident	R2405157-011
Sample type	Sample
Determination start	2024-06-18 21:43:09 UTC-4
Method	10-051424FAST
Dilution	10
Counter	86342
Sample Position	56
Comment 1	300.0 F
Comment 2	

Anions



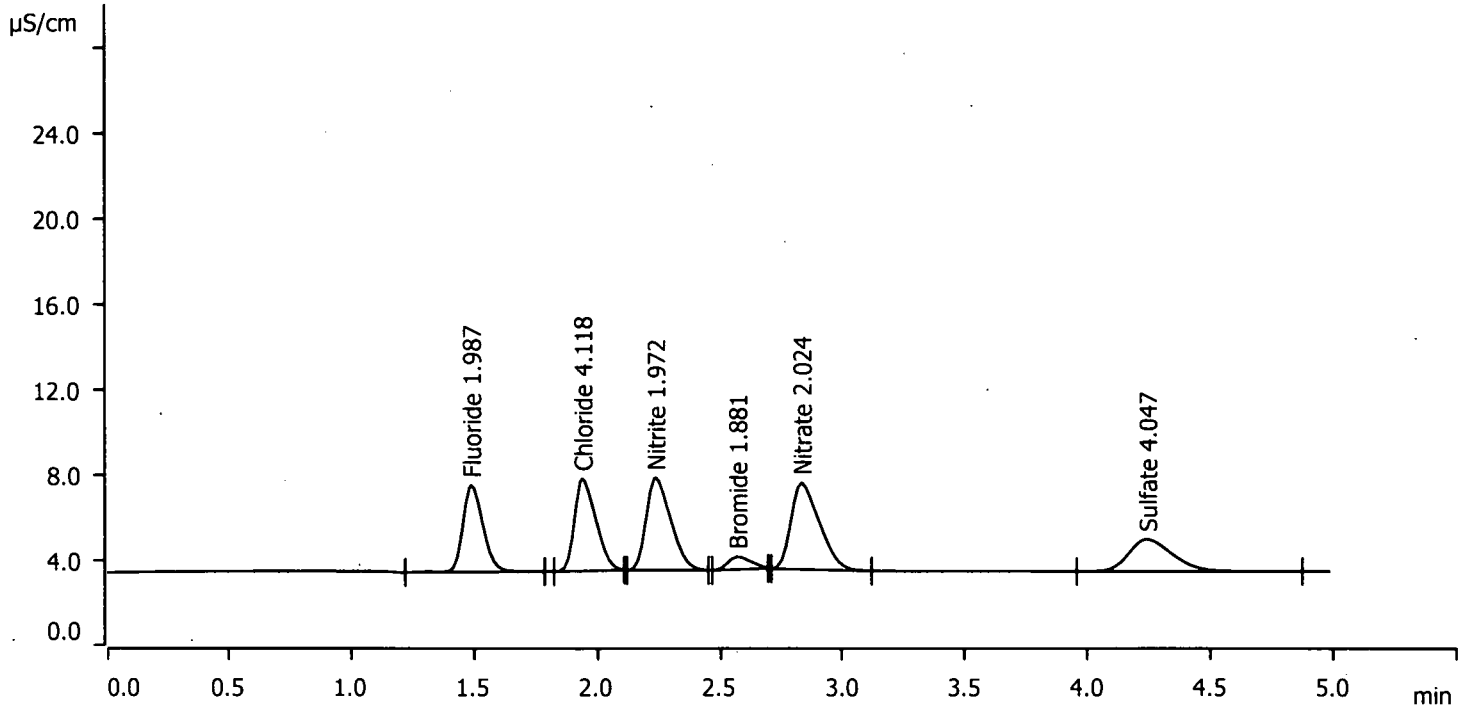
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.50	0.701	34.666	Fluoride	BB
2	1.95	0.817	71.832	Chloride	BB
3	2.84	0.038	1.660	Nitrate	BBI
4	4.25	0.617	76.428	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-06-18 21:49:25 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86343
Sample Position	57
Comment 1	300.0/9056A
Comment 2	

Anions



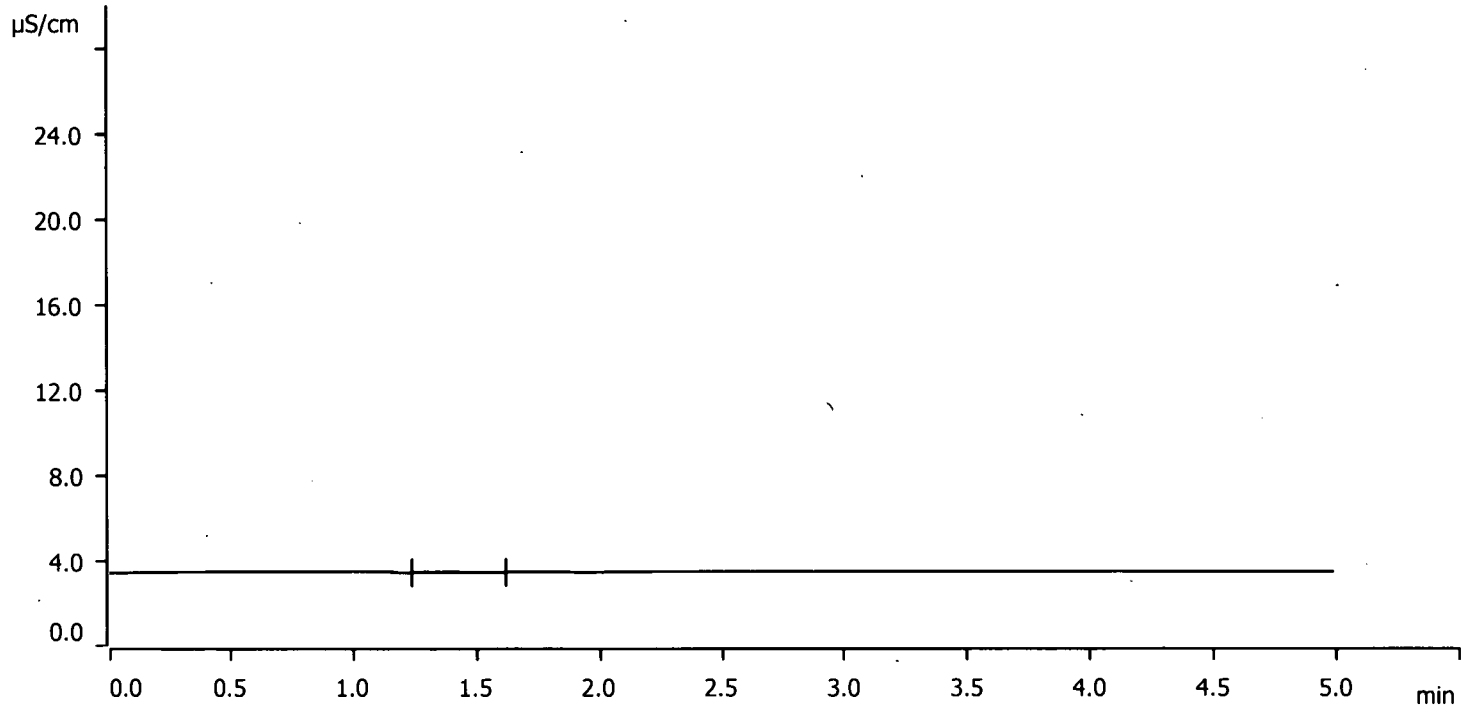
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.49	0.385	1.987	Fluoride	BB
2	1.94	0.435	4.118	Chloride	BB
3	2.24	0.502	1.972	Nitrite	BB
4	2.57	0.064	1.881	Bromide	BB
5	2.83	0.540	2.024	Nitrate	BB
6	4.24	0.311	4.047	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-06-18 21:55:43 UTC-4
Method	10-051424FAST
Dilution	1
Counter	86344
Sample Position	58
Comment 1	300.0/9056A
Comment 2	

Anions



ALS Environmental

1575 Jefferson Road, Building 300, Suite 360, Rochester, New York 14623

Ion Chromatography Cover Sheet

Instrument: **Metrohm IC 930 (IC#10)**

Column: **Dionex IonPac AS22-Fast (Installed 04/23/2024)**

Curve Date: **06/18/24** **Loop size: 25 uL Loop**

Analyst: ~~KW~~/KW **Analysis Date:** 6/18/24

Balance ID for Soil Preparation: NA

Is copy of LCS attached to run? (YES) / NO

Method Filename: 10-061824FAST

Standards Prep Dates & Log ID's:

Std Type	*Prep Date*	*Log ID*		*Std Type*	*Prep Date*	*Log ID*
Calibration Intermediate	04/23/2024	234759		Working Calibration Stds	06/18/2024	WC236013N
LCS / MS Intermediate	04/23/2024	234759		Working LCS/MS Standard	06/18/2024	WC236093K
ICV Intermediate	05/14/2024	235191		Working ICV Standard	06/18/2024	WC236035K
CCV Intermediate	05/14/2024	235191		Working CCV Standard	06/18/2024	WC236035K

Original Retention Times for this method are based on Standard 6 and are as follows:

Fluoride: 1.50	Bromide: 2.60
Chloride: 1.96	Nitrate: 2.86
Nitrite: 2.26	Sulfate: 4.32

Additional Comments: Column Serial Number: 231214122
Linear Range Verification (High Standard) Analyzed: 03/09/2024 – Due Every Six Months

Pipets: Chrome, Bottom
Disposable Pipet ID: (Fisher) 26023005

Eluent Stock (100x): 235121
Suppressor Stock (5x): 235047

ICV / CCV PREP

(A 1:1 dilution of the Reference Intermediate Stock is done daily.)

Analyte	ICV / CCV Intermediate Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst / Date Prepped	Lot ID	Exp. Date	Matrix H_2SO_4 / NaOH / DI	H_2SO_4 / NaOH Lot #
F	235191	4.00	5.0	10.0	2.00	KW 6/6/24	A	6/7/24	DI	—
Cl		8.00			4.00	KW 6/7/24 6/7/24	B	6/8/24 6/9 KW 6/7/24	DI	—
NO_2		4.00			2.00	KW 6/8/24	C	6/9/24	DI	—
Br		4.00			2.00	KW 6/10/24	D	6/11/24	DI	—
NO_3		4.00			2.00	KW 6/11/24	E	6/12/24	DI	—
OPO_4		4.00			2.00	KW 6/12/24	F	6/13/24	DI	—
SO_4		8.00			4.00	KW 6/13/24	G	6/14/24	DI	—
						KW 6/14/24	H	6/15/24	DI	—
						KW 6/16/24	I	6/17/24	DI	—
						KW 6/17/24	J	6/18/24	DI	—
						KW 6/18/24	K	6/19/24	DI	—
							L			
							M			
							N			
							O			
							P			
							Q			
							R			

LCS Prep

(Stocks delivered using volumetric glassware and brought to volume with DI. LCS expires after 7 days; if NO_2 is needed, LCS must be prepared daily.)

(MS prepared fresh daily using same volume of intermediate stock added to 100mLs sample. MS not prepared volumetrically.)

Analyte	Calibration Intermediate Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst / Date Prepped	Lot ID	Exp. Date	Matrix H_2SO_4 / NaOH / DI	H_2SO_4 / NaOH Lot #
F	234759	50	2.0	200	1.0	KW 6/6/24	A	6/13/24	DI	—
Cl		100			2.0	KW 6/7/24	B	6/14/24	DI	—
NO_2		50			1.0	KW 6/8/24	C	6/15/24	DI	—
Br		50			1.0	KW 6/10/24	D	6/17/24	DI	—
NO_3		50			1.0	KW 6/11/24	E	6/18/24	DI	—
OPO_4		50			1.0	KW 6/12/24	F	6/19/24	DI	—
SO_4		100			2.0	KW 6/13/24	G	6/20/24	DI	—
						KW 6/14/24	H	6/21/24	DI	—
						KW 6/16/24	I	6/23/24	DI	—
						KW 6/17/24	J	6/24/24	DI	—
						KW 6/18/24	K	6/25/24	DI	—
							L			
							M			
							N			
							O			
							P			
							Q			
							R			

Analysis: 300.0 | 9056A
ICAL Date: 5/14/24
Instrument: IC# 10
Curve Type: Linear (Quadratic)

IC Initial Calibration Checklist

- ☑ 1. Is the required documentation in the ICAL file?
  - ☑ IC Cover Sheet – correct?
  - ☑ Logbook Copies Complete
  - ☑ Method Parameters Report
  - ☑ Plots of all analytes
  - ☑ Chromatograms of all curve points, ICV, ICB
- ☑ 2. Was the ICAL performed continuously (i.e., not interrupted for maintenance or for sample analysis)?
- NA ☐ 3. For any reanalyzed points, was reanalysis within 8 hours of the final standard of the original ICAL?
- ☑ 4. Are all the analytes in the blank analysis < MRL?
- ☑ 5. Have the retention times been updated from the mid-point calibration standard?
- ☑ 6. Does each analyte's ICAL include, consecutively, the minimum number of concentration levels (3 for linear regression for 300.0, 9056, 7199, 218.6; six for 218.7; six plus blank for any quadratic curve)?
- ☑ 7. For each analyte, is the lowest standard's concentration at or below the analyte's MRL?
- ☑ 8. For each analyte, are there no levels skipped?
- ☑ 9. For each analyte, does a check of the linearity meet a correlation coefficient of ≥0.995 (Method 300/9056) or ≥0.999 (Methods 7199/218.6/218.7)?
- ☑ 10. For the ICV analysis, is the percent recovery for each analyte 90 – 110% (300.0/9056/7199); 95-105% (218.6); 85-115 (218.7)?
- ☑ 11. Are all peak integrations acceptable?
- ☑ 12. Do the peak areas match the Method Parameters Report (has the ICAL file been saved correctly)?
- ☑ 13. For each analyte, were the appropriate standards re-quantitated and printed?
  - ☑ Did the LLOQ meet 50-150% recovery limits at the MRL level standard?
  - ☑ Are recoveries of all standards greater than the MRL standard within (10% for 300.0/9056A; 15% for 218.7) of the true value? If a quadratic curve was used for 218.6/7199, are recoveries of all standards greater than the MRL within 10% of the true value?

COMMENTS

10-05142 4FAST

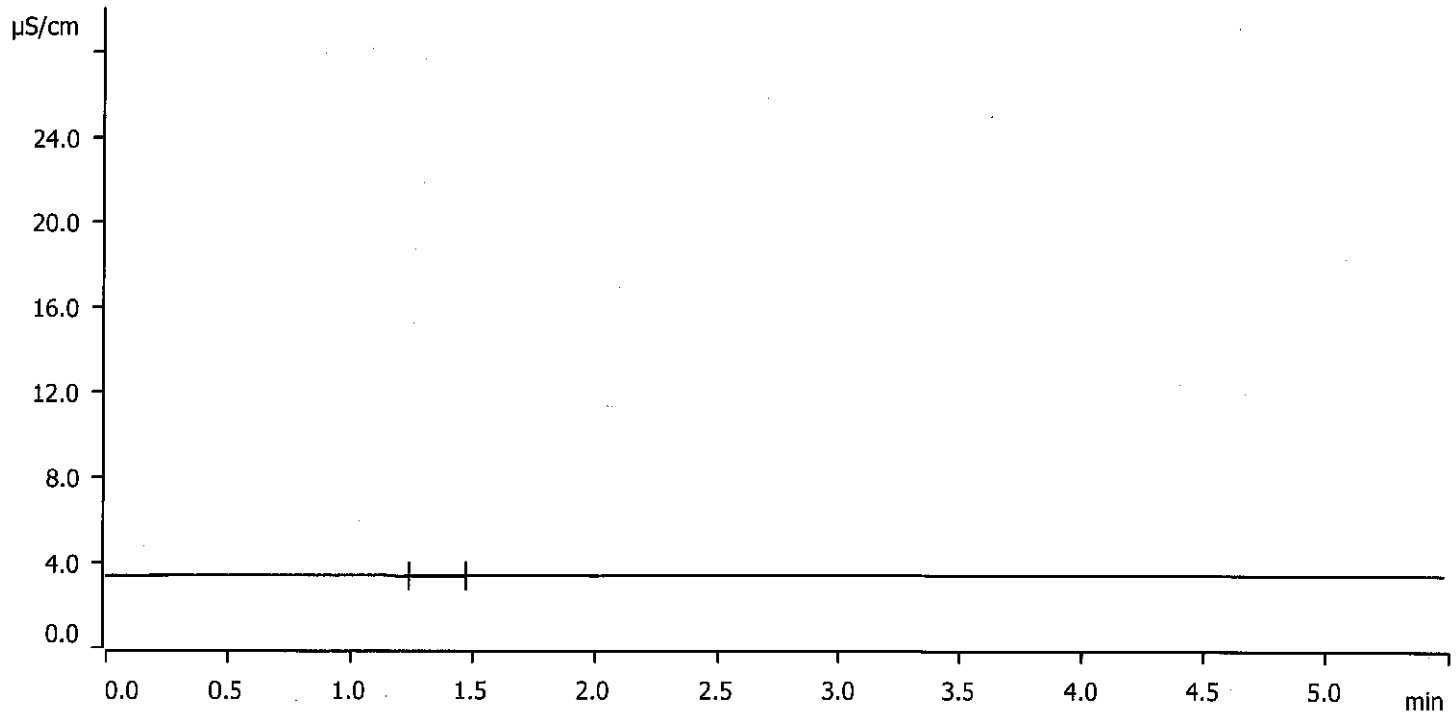
Analyst: _____ Date: 5/15/24

Secondary Reviewer: Christina Kutzer Date: 5/15/24

Sample data

Ident	STANDARD 1
Sample type	Standard 1
Determination start	2024-05-14 11:26:03 UTC-4
Method	10-051424FAST
Dilution	1
Counter	83057
Sample Position	5
Comment 1	300.0/9056A
Comment 2	

Anions

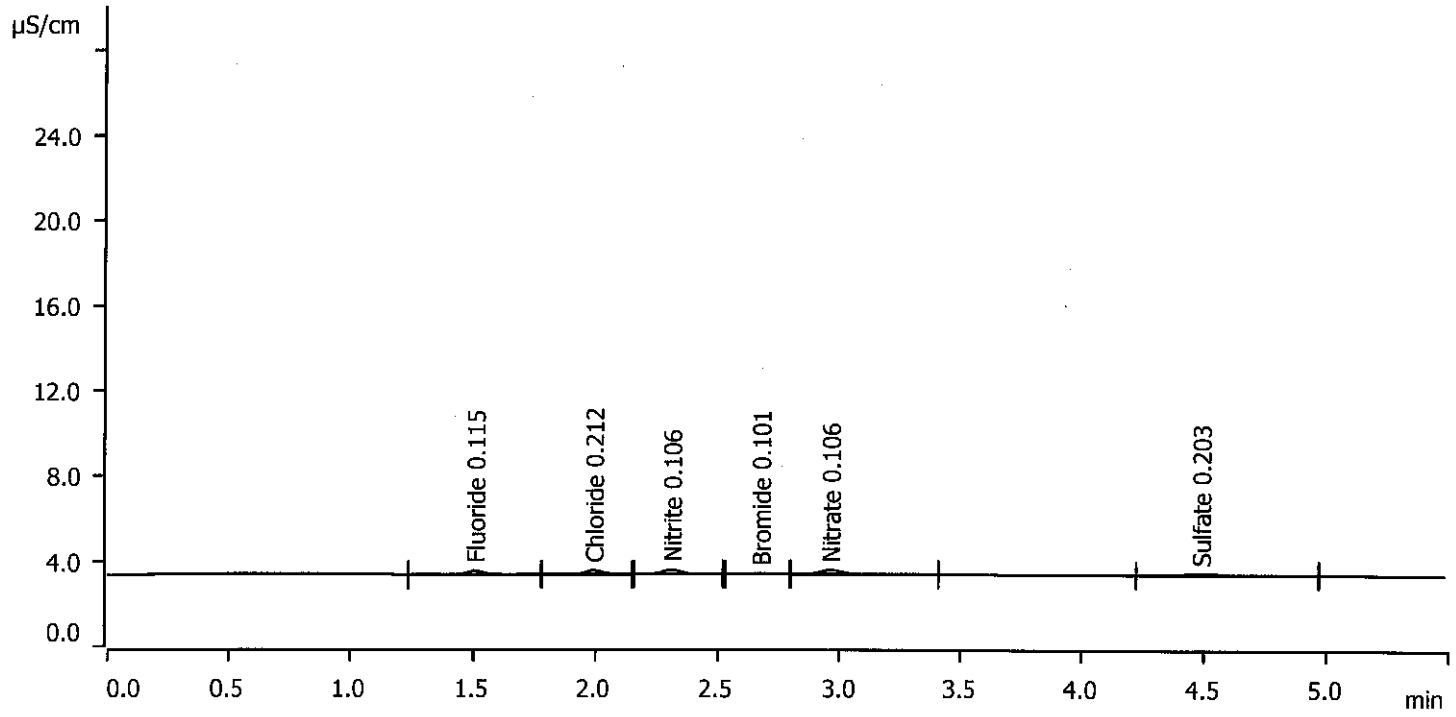


OK
KAW 5/15/24

Sample data

Ident	STANDARD 2
Sample type	Standard 2
Determination start	2024-05-14 11:33:04 UTC-4
Method	10-051424FAST
Dilution	1
Counter	83058
Sample Position	6
Comment 1	300.0/9056A
Comment 2	

Anions



Anions

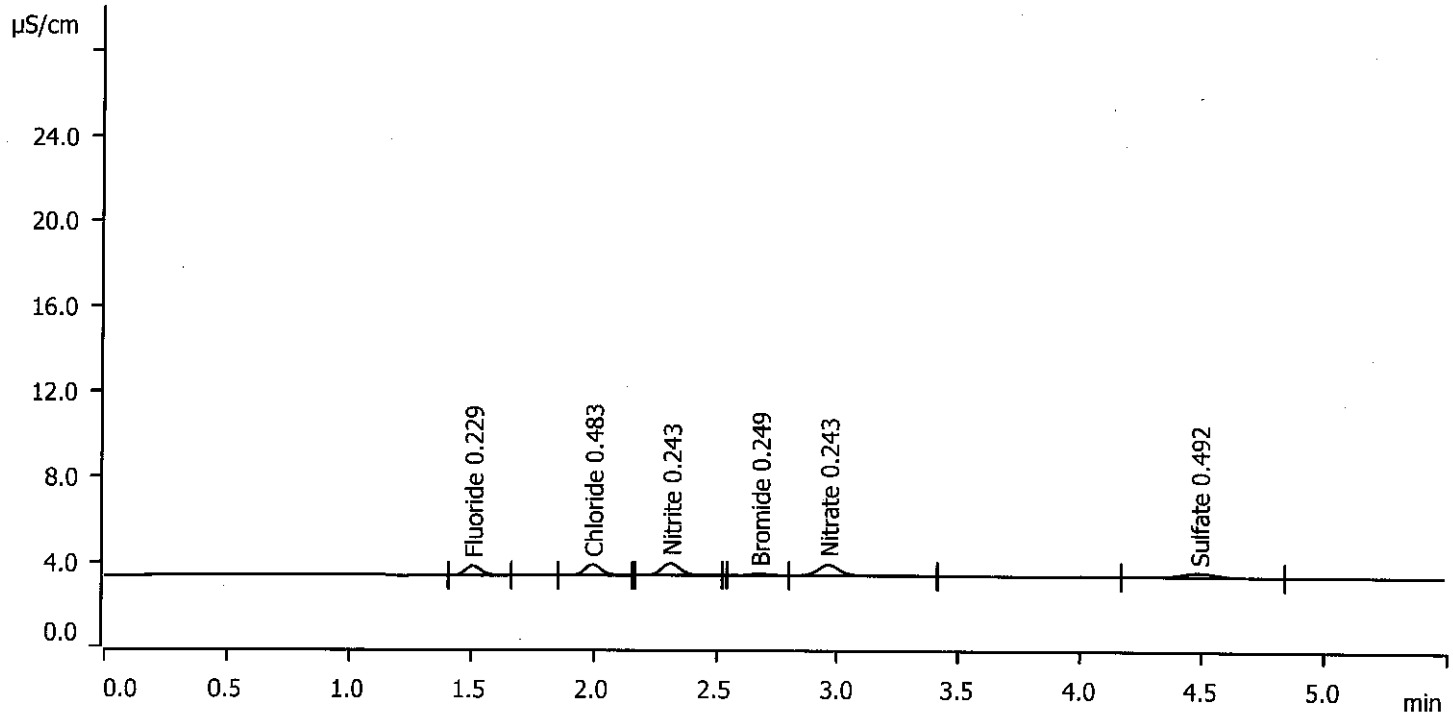
Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type	
1	1.51	0.017	0.115	Fluoride	BB	115% OK
2	2.00	0.015	0.212	Chloride	BB	106%
3	2.32	0.020	0.106	Nitrite	BB	106%
4	2.68	0.004	0.101	Bromide	BB	101%
5	2.96	0.021	0.106	Nitrate	BB	106%
6	4.48	0.014	0.203	Sulfate	BB	102%

KAW 5/15/24

Sample data

Ident	STANDARD 3
Sample type	Standard 3
Determination start	2024-05-14 11:40:11 UTC-4
Method	10-051424FAST
Dilution	1
Counter	83059
Sample Position	7
Comment 1	300.0/9056A
Comment 2	

Anions



Anions

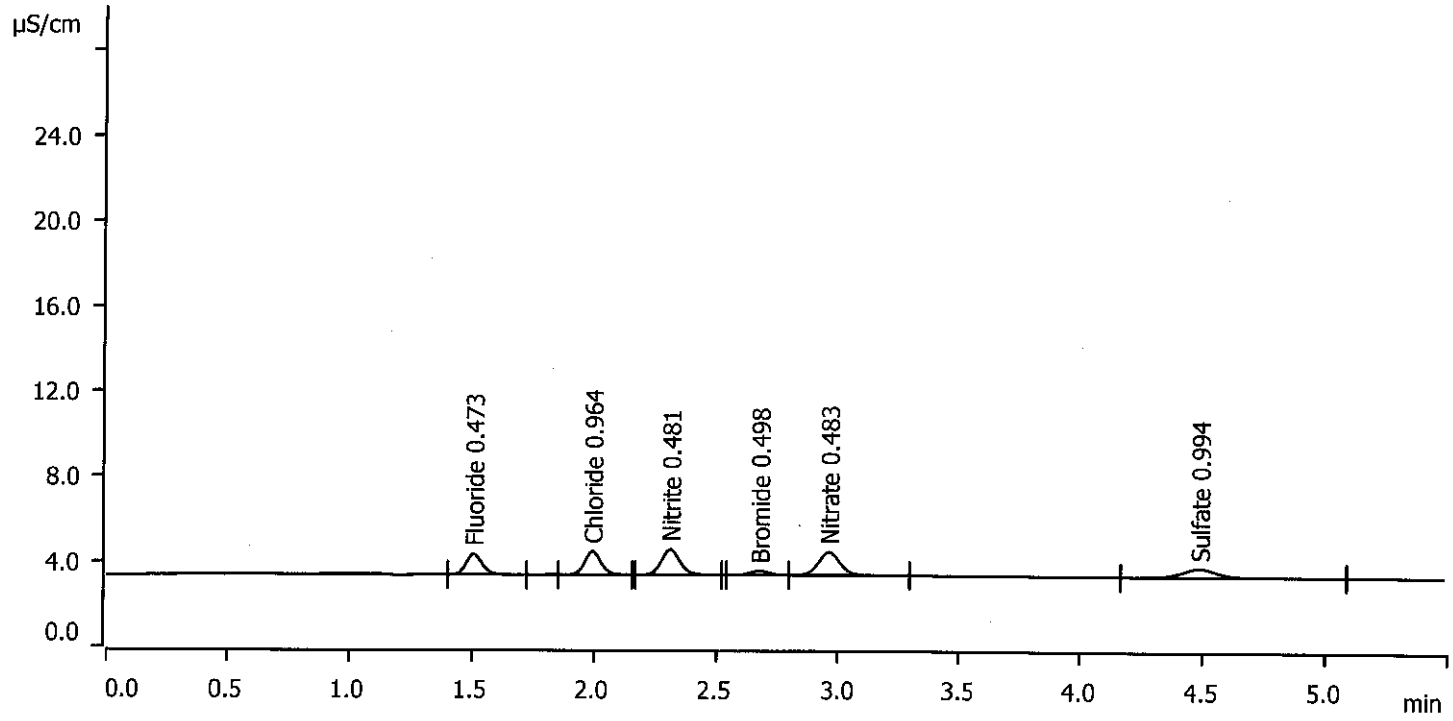
Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type	
1	1.51	0.035	0.229	Fluoride	BB	91.6%. OK
2	2.00	0.040	0.483	Chloride	BB	96.6%.
3	2.32	0.051	0.243	Nitrite	BB	97.2%.
4	2.68	0.009	0.249	Bromide	BB	99.6%.
5	2.96	0.053	0.243	Nitrate	BB	97.2%.
6	4.48	0.034	0.492	Sulfate	BB	98.4%.

KALO 5/15/24

Sample data

Ident	STANDARD 4
Sample type	Standard 4
Determination start	2024-05-14 11:47:19 UTC-4
Method	10-051424FAST
Dilution	1
Counter	83060
Sample Position	8
Comment 1	300.0/9056A
Comment 2	

Anions



Anions

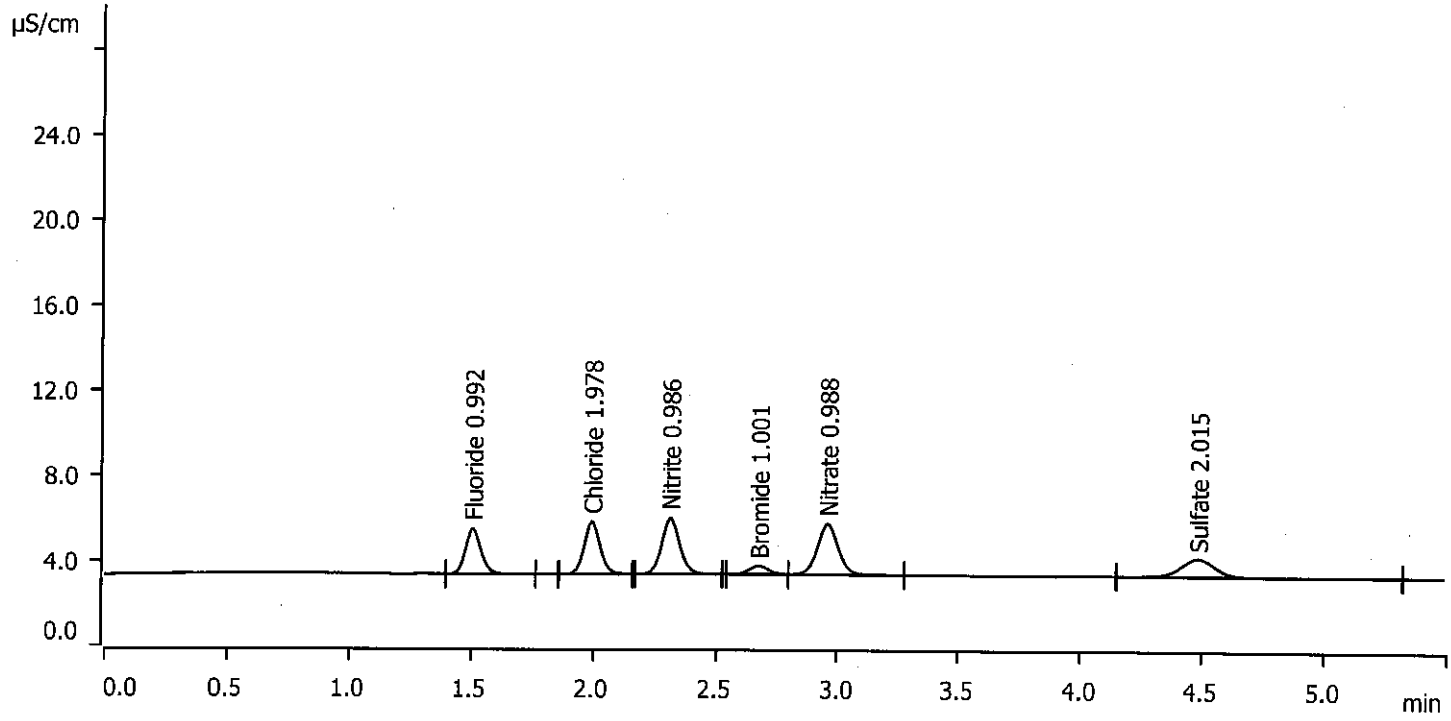
Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type	
1	1.51	0.073	0.473	Fluoride	BB	94.6% OK
2	2.00	0.085	0.964	Chloride	BB	96.4%
3	2.32	0.105	0.481	Nitrite	BB	96.2%
4	2.68	0.018	0.498	Bromide	BB	99.6%
5	2.96	0.110	0.483	Nitrate	BB	96.6%
6	4.49	0.069	0.994	Sulfate	BB	99.4%

KAW 5/15/24

Sample data

Ident	STANDARD 5
Sample type	Standard 5
Determination start	2024-05-14 11:54:23 UTC-4
Method	10-051424FAST
Dilution	1
Counter	83061
Sample Position	9
Comment 1	300.0/9056A
Comment 2	

Anions



Anions

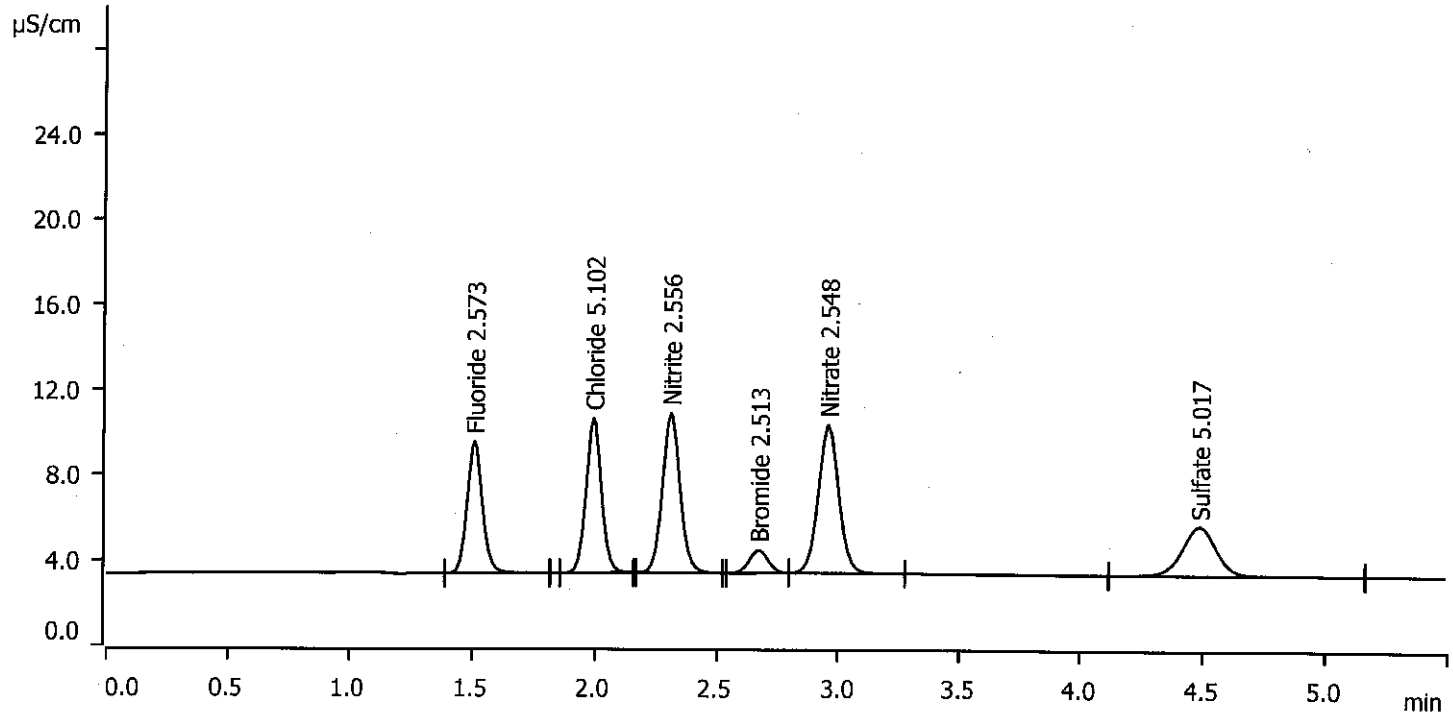
Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type	
1	1.51	0.158	0.992	Fluoride	BB	99.2%. OK
2	2.00	0.184	1.978	Chloride	BB	98.9%.
3	2.31	0.225	0.986	Nitrite	BB	98.6%.
4	2.68	0.036	1.001	Bromide	BB	100%.
5	2.96	0.236	0.988	Nitrate	BB	98.8%.
6	4.48	0.142	2.015	Sulfate	BB	101%.

AW
5/15/24

Sample data

Ident	STANDARD 6
Sample type	Standard 6
Determination start	2024-05-14 12:01:29 UTC-4
Method	10-051424FAST
Dilution	1
Counter	83062
Sample Position	10
Comment 1	300.0/9056A
Comment 2	

Anions



Anions

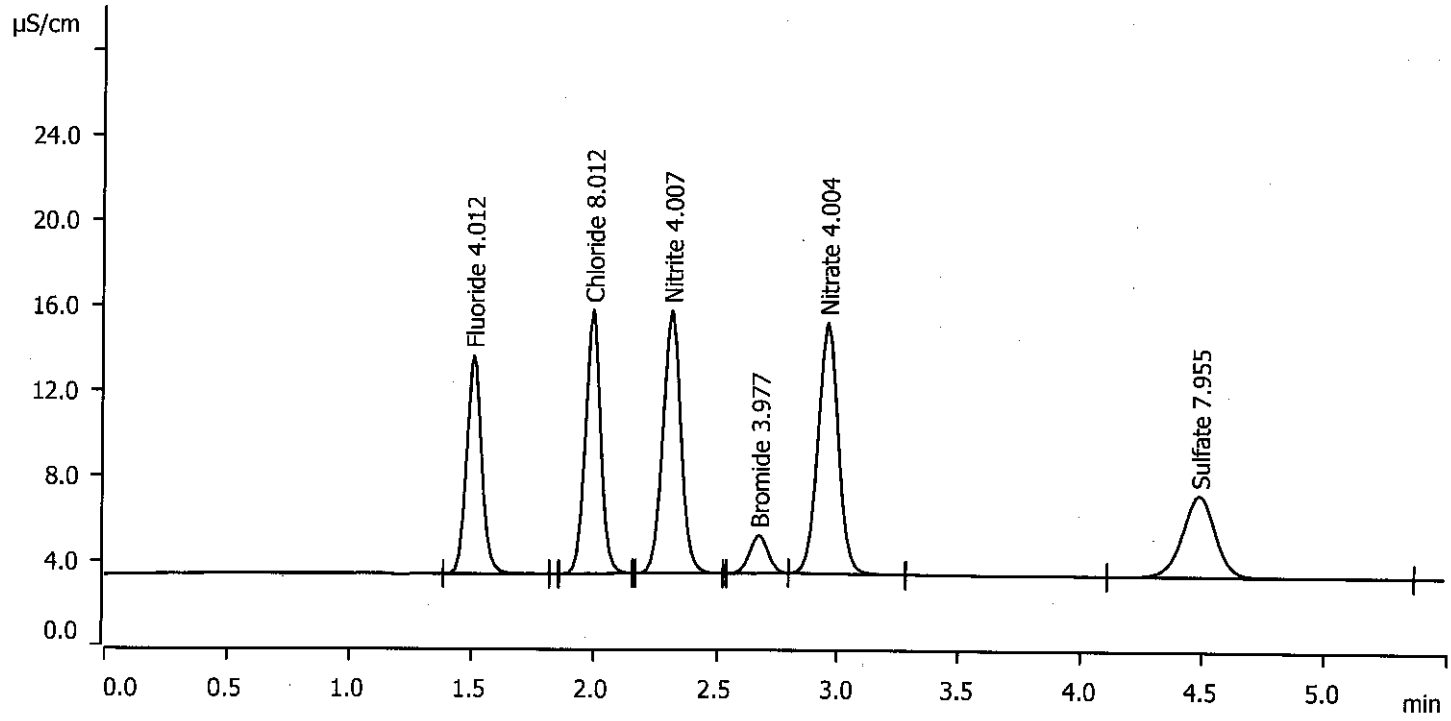
Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type	
1	1.51	0.444	2.573	Fluoride	BB	103% OK
2	2.00	0.523	5.102	Chloride	BB	102%
3	2.31	0.629	2.556	Nitrite	BB	102%
4	2.67	0.094	2.513	Bromide	BB	101%
5	2.95	0.668	2.548	Nitrate	BB	102%
6	4.48	0.368	5.017	Sulfate	BB	100%

KAW 5/15/24

Sample data

Ident	STANDARD 7
Sample type	Standard 7
Determination start	2024-05-14 12:08:34 UTC-4
Method	10-051424FAST
Dilution	1
Counter	83063
Sample Position	11
Comment 1	300.0/9056A
Comment 2	

Anions



Anions

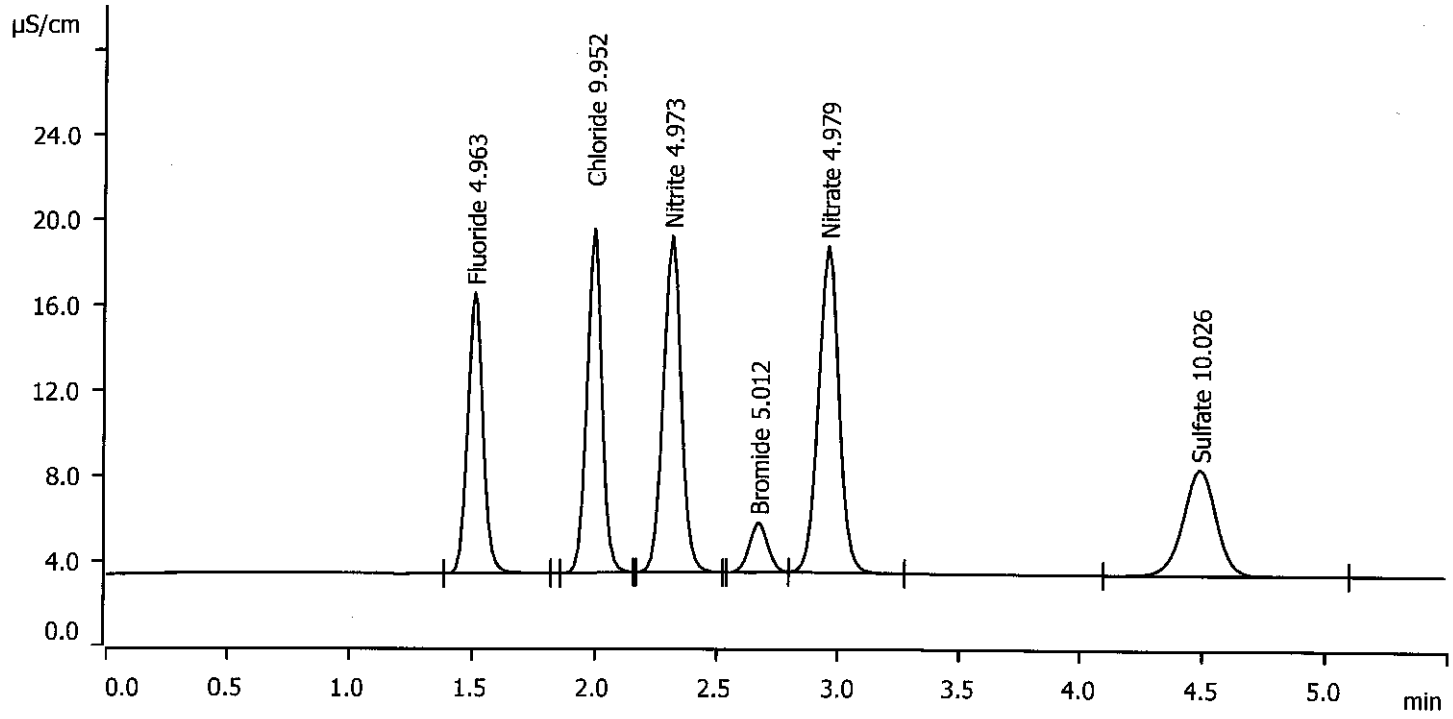
Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type	
1	1.51	0.741	4.012	Fluoride	BB	100% OK
2	2.00	0.884	8.012	Chloride	BB	100%
3	2.32	1.045	4.007	Nitrite	BB	100%
4	2.68	0.155	3.977	Bromide	BB	99.4%
5	2.95	1.130	4.004	Nitrate	BB	100%
6	4.49	0.607	7.955	Sulfate	BB	99.4%

KAW 5/15/24

Sample data

Ident	STANDARD 8
Sample type	Standard 8
Determination start	2024-05-14 12:15:41 UTC-4
Method	10-051424FAST
Dilution	1
Counter	83064
Sample Position	12
Comment 1	300.0/9056A
Comment 2	

Anions



Anions

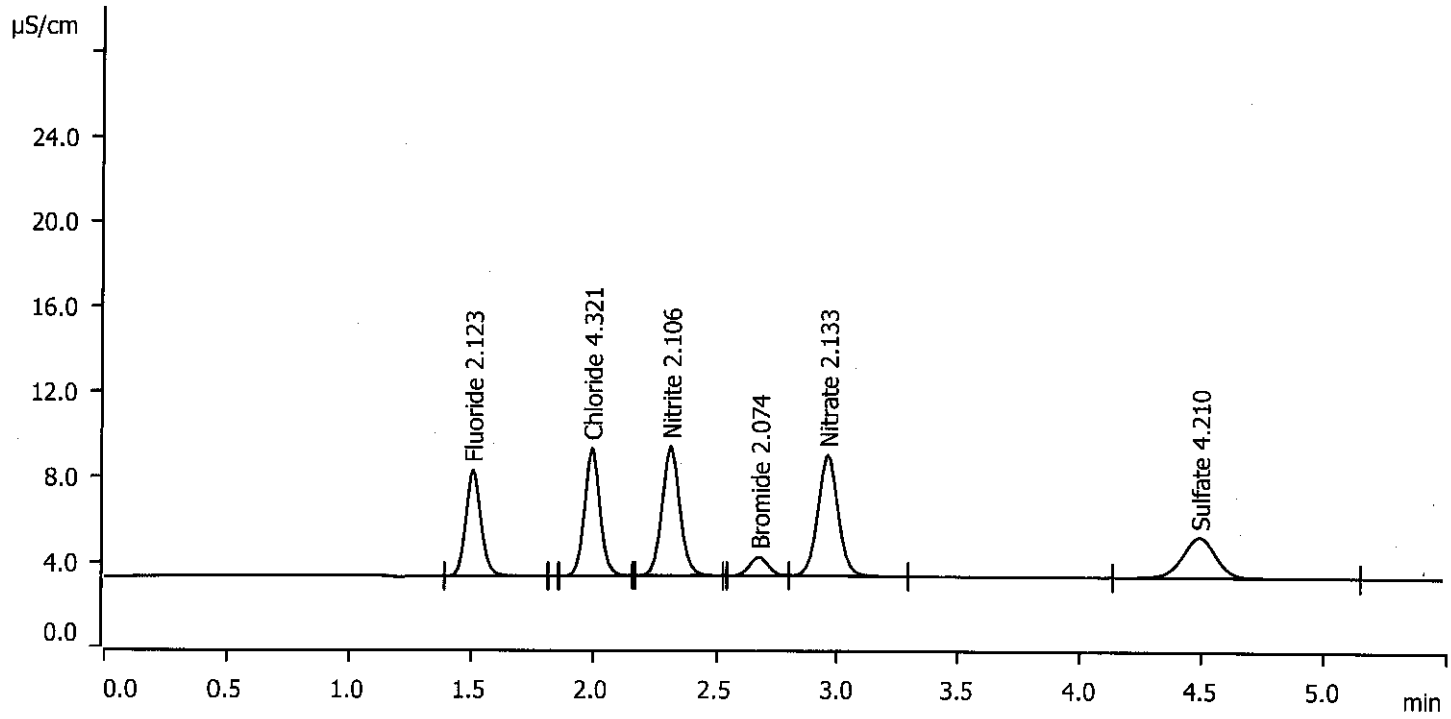
Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type	
1	1.51	0.955	4.963	Fluoride	BB	99.3% OK
2	2.00	1.150	9.952	Chloride	BB	99.5%
3	2.32	1.345	4.973	Nitrite	BB	99.5%
4	2.68	0.201	5.012	Bromide	BB	100%
5	2.95	1.472	4.979	Nitrate	BB	99.6%
6	4.49	0.785	10.026	Sulfate	BB	100%

KAW 5/15/24

Sample data

Ident	ICV
Sample type	Check standard 1
Determination start	2024-05-14 12:47:01 UTC-4
Method	10-051424FAST
Dilution	1
Counter	83065
Sample Position	13
Comment 1	300.0/9056A
Comment 2	

Anions



Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.51	0.358	2.123	Fluoride	BB
2	2.00	0.433	4.321	Chloride	BB
3	2.32	0.508	2.106	Nitrite	BB
4	2.68	0.077	2.074	Bromide	BB
5	2.96	0.546	2.133	Nitrate	BB
6	4.49	0.306	4.210	Sulfate	BB

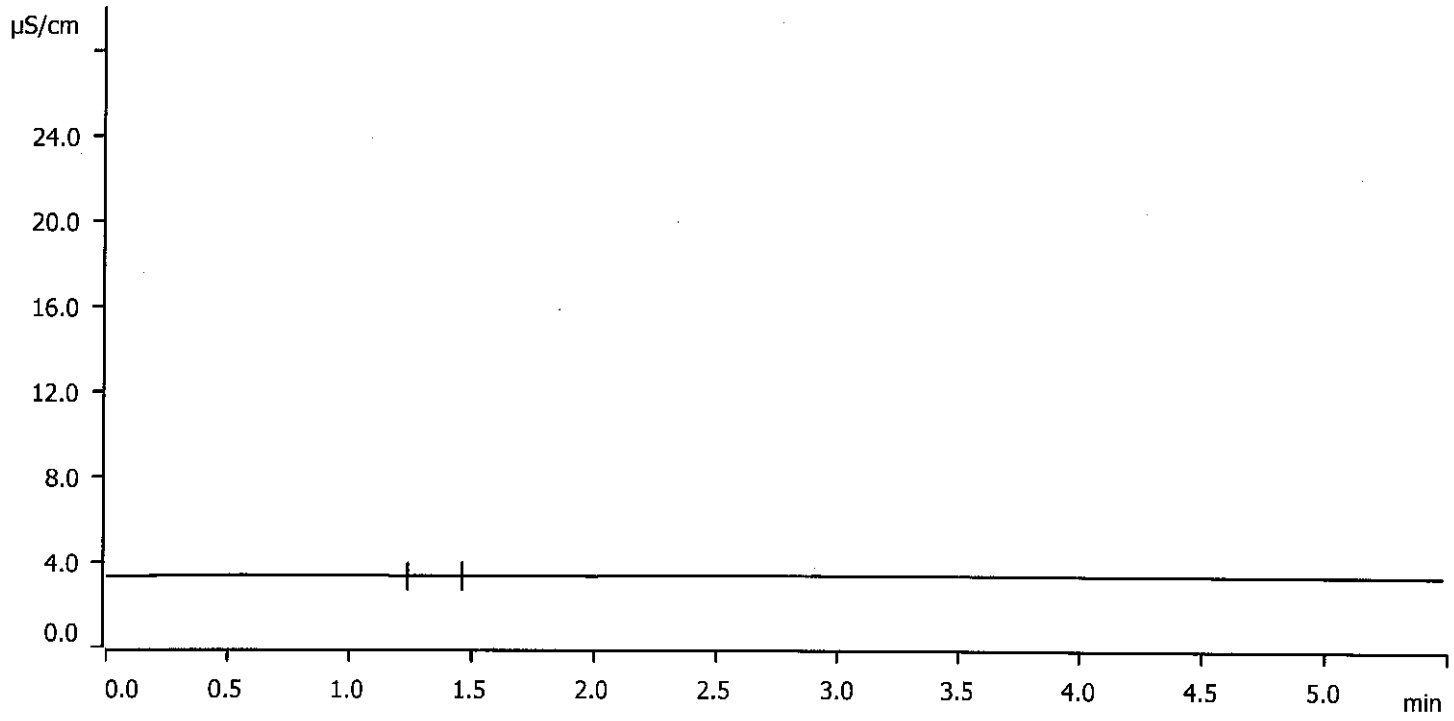
OK

AW 5/15/24

Sample data

Ident	ICB
Sample type	Sample
Determination start	2024-05-14 12:54:06 UTC-4
Method	10-051424FAST
Dilution	1
Counter	83066
Sample Position	14
Comment 1	300.0/9056A
Comment 2	

Anions



OK
KAW 5/15/24

CALIBRATION REPORT

Method 10-051424FAST

Anions

Data source . . . . . Conductivity detector 1 (930 Compact IC Flex 1)
Channel . . . . . Conductivity
Recording time 5.5min
Flow 2.000mL/min

Integration

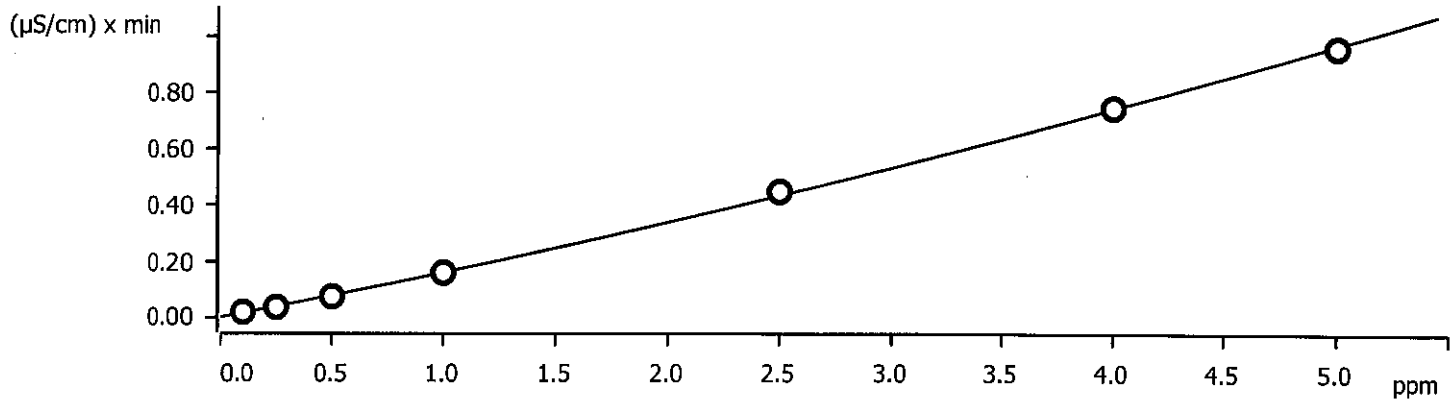
Anions

Sensitivity	40	
Smoothing	30	
Minimum height	0.01	µS/cm
Minimum area	0.001	(µS/cm) x min
Integration start	1.2	min
Polarity	+	
Negative peaks	off	
Drift compensation	off	
Ignore overflow	off	
Subtract blank	off	
Savitzky-Golay	off	
Activate events	off	

Events

Start [min]	End [min]	Event	Parameter
1.25	6.00	Valley-Valley	

Fluoride (Anions)



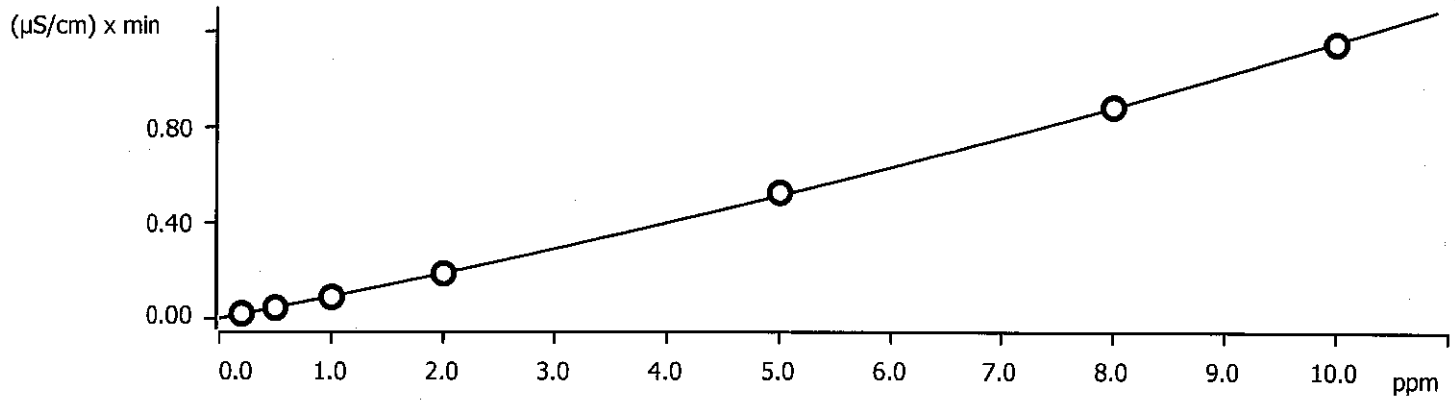
Function: . . . . . $A = -4.63781E-4 + 7.57283E-3 \times Q + 2.07062E-5 \times Q^2$

Relative standard deviation . . . . . *2.579031 %*

Correlation coefficient *0.999813*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2024-05-14 11:26:03 UTC-4	used
Standard 2	1	0.100	20.0	1.0	1.0	0.017111	STANDARD 2	2024-05-14 11:33:04 UTC-4	used
Standard 3	1	0.250	20.0	1.0	1.0	0.034581	STANDARD 3	2024-05-14 11:40:11 UTC-4	used
Standard 4	1	0.500	20.0	1.0	1.0	0.073083	STANDARD 4	2024-05-14 11:47:19 UTC-4	used
Standard 5	1	1.000	20.0	1.0	1.0	0.157911	STANDARD 5	2024-05-14 11:54:23 UTC-4	used
Standard 6	1	2.500	20.0	1.0	1.0	0.444041	STANDARD 6	2024-05-14 12:01:29 UTC-4	used
Standard 7	1	4.000	20.0	1.0	1.0	0.740558	STANDARD 7	2024-05-14 12:08:34 UTC-4	used
Standard 8	1	5.000	20.0	1.0	1.0	0.955155	STANDARD 8	2024-05-14 12:15:41 UTC-4	used

Chloride (Anions)



Function: . . . . . $A = -4.16397E-3 + 4.49609E-3 \times Q + 6.53652E-6 \times Q^2$

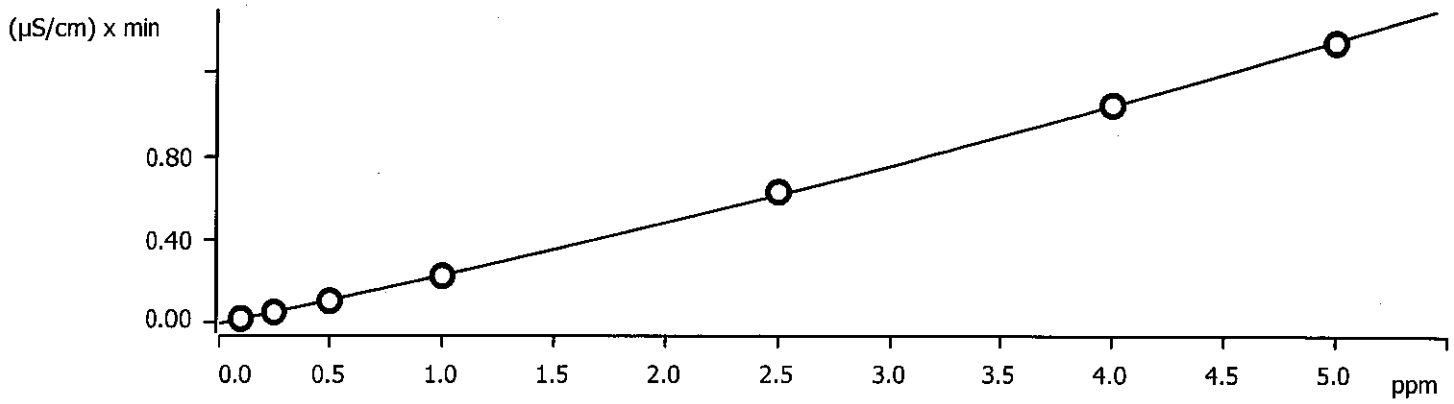
Relative standard deviation . . . . . *1.752339 %*

Correlation coefficient *0.999916*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2024-05-14 11:26:03 UTC-4	used
Standard 2	1	0.200	20.0	1.0	1.0	0.015031	STANDARD 2	2024-05-14 11:33:04 UTC-4	used
Standard 3	1	0.500	20.0	1.0	1.0	0.039834	STANDARD 3	2024-05-14 11:40:11 UTC-4	used
Standard 4	1	1.000	20.0	1.0	1.0	0.084992	STANDARD 4	2024-05-14 11:47:19 UTC-4	used
Standard 5	1	2.000	20.0	1.0	1.0	0.183977	STANDARD 5	2024-05-14 11:54:23 UTC-4	used
Standard 6	1	5.000	20.0	1.0	1.0	0.522625	STANDARD 6	2024-05-14 12:01:29 UTC-4	used

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 7	1	8.000	20.0	1.0	1.0	0.884168	STANDARD 7	2024-05-14 12:08:34 UTC-4	used
Standard 8	1	10.000	20.0	1.0	1.0	1.149746	STANDARD 8	2024-05-14 12:15:41 UTC-4	used

Nitrite (Anions)



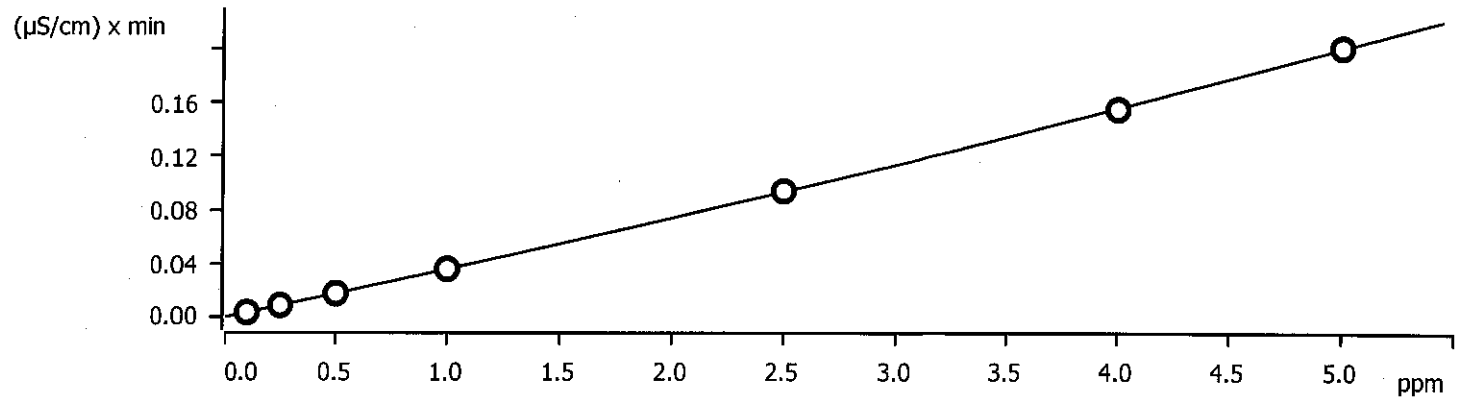
Function: . . . . . *A = - 3.87039E-3 + 0.0111135× Q + 2.45981E-5× Q²*

Relative standard deviation . . . . . *1.903737 %*

Correlation coefficient *0.999898*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2024-05-14 11:26:03 UTC-4	used
Standard 2	1	0.100	20.0	1.0	1.0	0.019832	STANDARD 2	2024-05-14 11:33:04 UTC-4	used
Standard 3	1	0.250	20.0	1.0	1.0	0.050700	STANDARD 3	2024-05-14 11:40:11 UTC-4	used
Standard 4	1	0.500	20.0	1.0	1.0	0.105247	STANDARD 4	2024-05-14 11:47:19 UTC-4	used
Standard 5	1	1.000	20.0	1.0	1.0	0.224833	STANDARD 5	2024-05-14 11:54:23 UTC-4	used
Standard 6	1	2.500	20.0	1.0	1.0	0.628540	STANDARD 6	2024-05-14 12:01:29 UTC-4	used
Standard 7	1	4.000	20.0	1.0	1.0	1.044838	STANDARD 7	2024-05-14 12:08:34 UTC-4	used
Standard 8	1	5.000	20.0	1.0	1.0	1.344941	STANDARD 8	2024-05-14 12:15:41 UTC-4	used

Bromide (Anions)



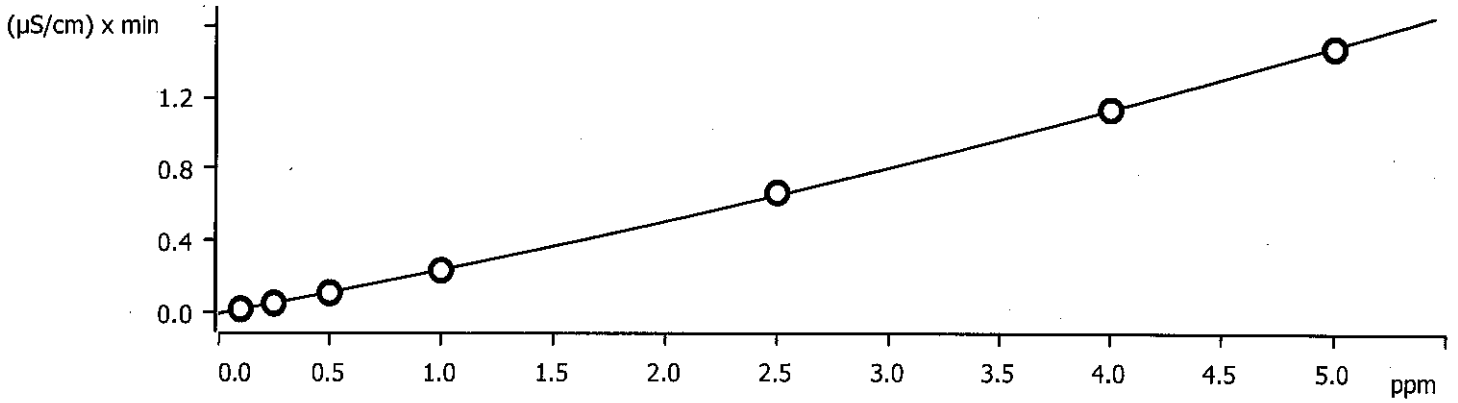
Function: . . . . . *A = - 1.58425E-5 + 1.74399E-3× Q + 2.62085E-6× Q²*

Relative standard deviation . . . . . *0.860949 %*

Correlation coefficient *0.999978*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2024-05-14 11:26:03 UTC-4	used
Standard 2	1	0.100	20.0	1.0	1.0	0.003507	STANDARD 2	2024-05-14 11:33:04 UTC-4	used
Standard 3	1	0.250	20.0	1.0	1.0	0.008723	STANDARD 3	2024-05-14 11:40:11 UTC-4	used
Standard 4	1	0.500	20.0	1.0	1.0	0.017602	STANDARD 4	2024-05-14 11:47:19 UTC-4	used
Standard 5	1	1.000	20.0	1.0	1.0	0.035962	STANDARD 5	2024-05-14 11:54:23 UTC-4	used
Standard 6	1	2.500	20.0	1.0	1.0	0.094250	STANDARD 6	2024-05-14 12:01:29 UTC-4	used
Standard 7	1	4.000	20.0	1.0	1.0	0.155267	STANDARD 7	2024-05-14 12:08:34 UTC-4	used
Standard 8	1	5.000	20.0	1.0	1.0	0.201155	STANDARD 8	2024-05-14 12:15:41 UTC-4	used

Nitrate (Anions)



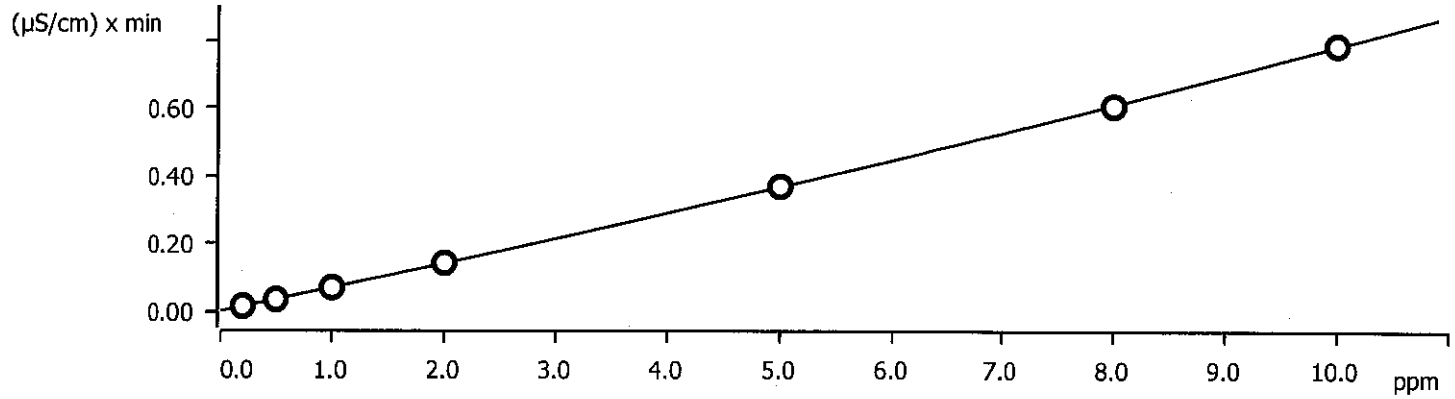
Function: . . . . . *A = - 3.29913E-3 + 0.0114302× Q + 3.39919E-5× Q²*

Relative standard deviation . . . . . *1.626736 %*

Correlation coefficient *0.999927*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2024-05-14 11:26:03 UTC-4	used
Standard 2	1	0.100	20.0	1.0	1.0	0.020994	STANDARD 2	2024-05-14 11:33:04 UTC-4	used
Standard 3	1	0.250	20.0	1.0	1.0	0.053134	STANDARD 3	2024-05-14 11:40:11 UTC-4	used
Standard 4	1	0.500	20.0	1.0	1.0	0.110304	STANDARD 4	2024-05-14 11:47:19 UTC-4	used
Standard 5	1	1.000	20.0	1.0	1.0	0.235937	STANDARD 5	2024-05-14 11:54:23 UTC-4	used
Standard 6	1	2.500	20.0	1.0	1.0	0.667520	STANDARD 6	2024-05-14 12:01:29 UTC-4	used
Standard 7	1	4.000	20.0	1.0	1.0	1.129908	STANDARD 7	2024-05-14 12:08:34 UTC-4	used
Standard 8	1	5.000	20.0	1.0	1.0	1.472055	STANDARD 8	2024-05-14 12:15:41 UTC-4	used

Sulfate (Anions)



Function: . . . . . *A = 3.87231E-4 + 3.41569E-3× Q + 2.48769E-6× Q²*

Relative standard deviation . . . . . *0.837031 %*

Correlation coefficient *0.999979*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2024-05-14 11:26:03 UTC-4	used
Standard 2	1	0.200	20.0	1.0	1.0	0.014314	STANDARD 2	2024-05-14 11:33:04 UTC-4	used
Standard 3	1	0.500	20.0	1.0	1.0	0.034220	STANDARD 3	2024-05-14 11:40:11 UTC-4	used
Standard 4	1	1.000	20.0	1.0	1.0	0.069242	STANDARD 4	2024-05-14 11:47:19 UTC-4	used
Standard 5	1	2.000	20.0	1.0	1.0	0.142049	STANDARD 5	2024-05-14 11:54:23 UTC-4	used
Standard 6	1	5.000	20.0	1.0	1.0	0.368157	STANDARD 6	2024-05-14 12:01:29 UTC-4	used

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 7	1	8.000	20.0	1.0	1.0	0.606764	STANDARD 7	2024-05-14 12:08:34 UTC-4	used
Standard 8	1	10.000	20.0	1.0	1.0	0.785337	STANDARD 8	2024-05-14 12:15:41 UTC-4	used

CALIBRATION REPORT

Method 10-051424FAST

Anions

Data source . . . . . Conductivity detector 1 (930 Compact IC Flex 1)
Channel . . . . . Conductivity
Recording time 5.5min
Flow 2.000mL/min

Integration

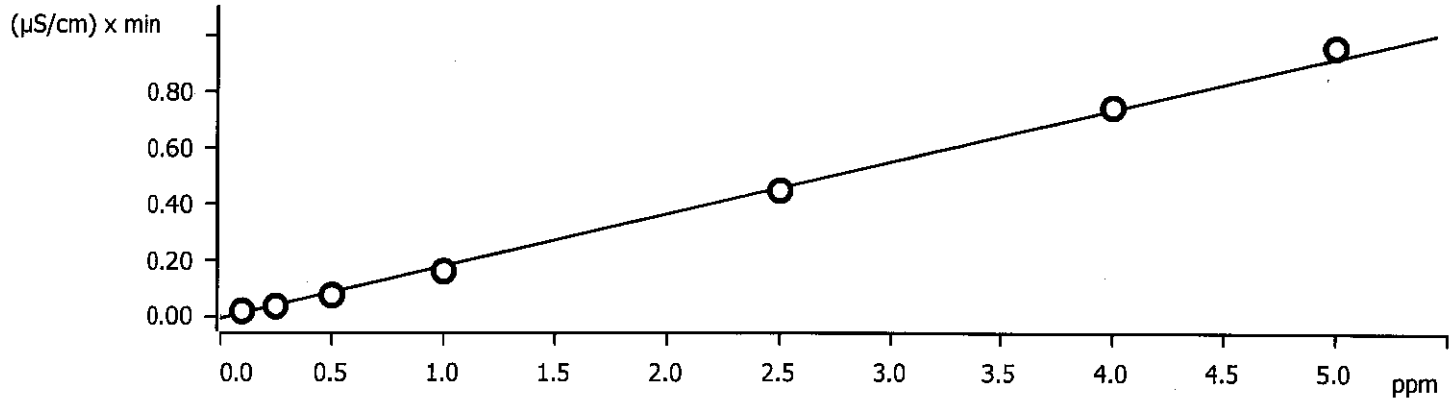
Anions

Sensitivity	40	
Smoothing	30	
Minimum height	0.01	µS/cm
Minimum area	0.001	(µS/cm) x min
Integration start	1.2	min
Polarity	+	
Negative peaks	off	
Drift compensation	off	
Ignore overflow	off	
Subtract blank	off	
Savitzky-Golay	off	
Activate events	off	

Events

Start [min]	End [min]	Event	Parameter
1.25	6.00	Valley-Valley	

Fluoride (Anions)



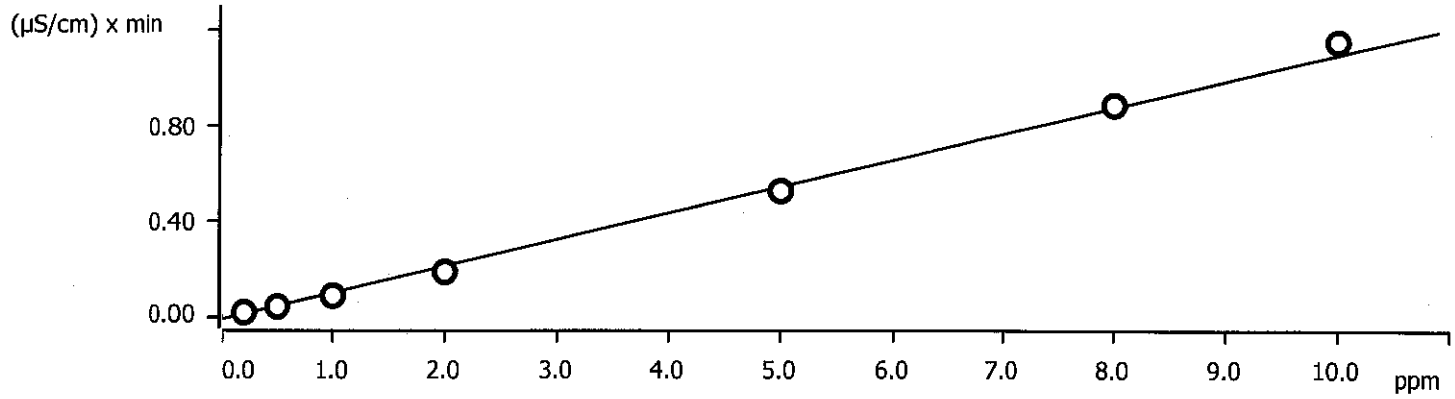
Function: . . . . . *A = - 7.64639E-3 + 9.23997E-3× Q*

Relative standard deviation . . . . . *6.136500 %*

Correlation coefficient *0.998675*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2024-05-14 11:26:03 UTC-4	used
Standard 2	1	0.100	20.0	1.0	1.0	0.017111	STANDARD 2	2024-05-14 11:33:04 UTC-4	used
Standard 3	1	0.250	20.0	1.0	1.0	0.034581	STANDARD 3	2024-05-14 11:40:11 UTC-4	used
Standard 4	1	0.500	20.0	1.0	1.0	0.073083	STANDARD 4	2024-05-14 11:47:19 UTC-4	used
Standard 5	1	1.000	20.0	1.0	1.0	0.157911	STANDARD 5	2024-05-14 11:54:23 UTC-4	used
Standard 6	1	2.500	20.0	1.0	1.0	0.444041	STANDARD 6	2024-05-14 12:01:29 UTC-4	used
Standard 7	1	4.000	20.0	1.0	1.0	0.740558	STANDARD 7	2024-05-14 12:08:34 UTC-4	used
Standard 8	1	5.000	20.0	1.0	1.0	0.955155	STANDARD 8	2024-05-14 12:15:41 UTC-4	used

Chloride (Anions)



Function: . . . . . *A = - 0.0123474 + 5.53516E-3× Q*

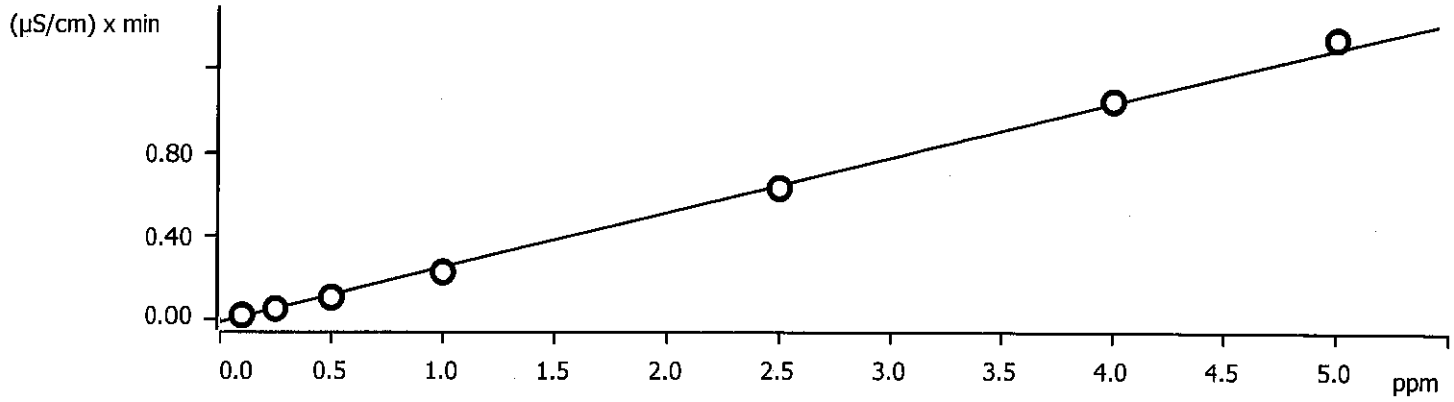
Relative standard deviation . . . . . *7.159404 %*

Correlation coefficient *0.998241*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2024-05-14 11:26:03 UTC-4	used
Standard 2	1	0.200	20.0	1.0	1.0	0.015031	STANDARD 2	2024-05-14 11:33:04 UTC-4	used
Standard 3	1	0.500	20.0	1.0	1.0	0.039834	STANDARD 3	2024-05-14 11:40:11 UTC-4	used
Standard 4	1	1.000	20.0	1.0	1.0	0.084992	STANDARD 4	2024-05-14 11:47:19 UTC-4	used
Standard 5	1	2.000	20.0	1.0	1.0	0.183977	STANDARD 5	2024-05-14 11:54:23 UTC-4	used
Standard 6	1	5.000	20.0	1.0	1.0	0.522625	STANDARD 6	2024-05-14 12:01:29 UTC-4	used

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 7	1	8.000	20.0	1.0	1.0	0.884168	STANDARD 7	2024-05-14 12:08:34 UTC-4	used
Standard 8	1	10.000	20.0	1.0	1.0	1.149746	STANDARD 8	2024-05-14 12:15:41 UTC-4	used

Nitrite (Anions)



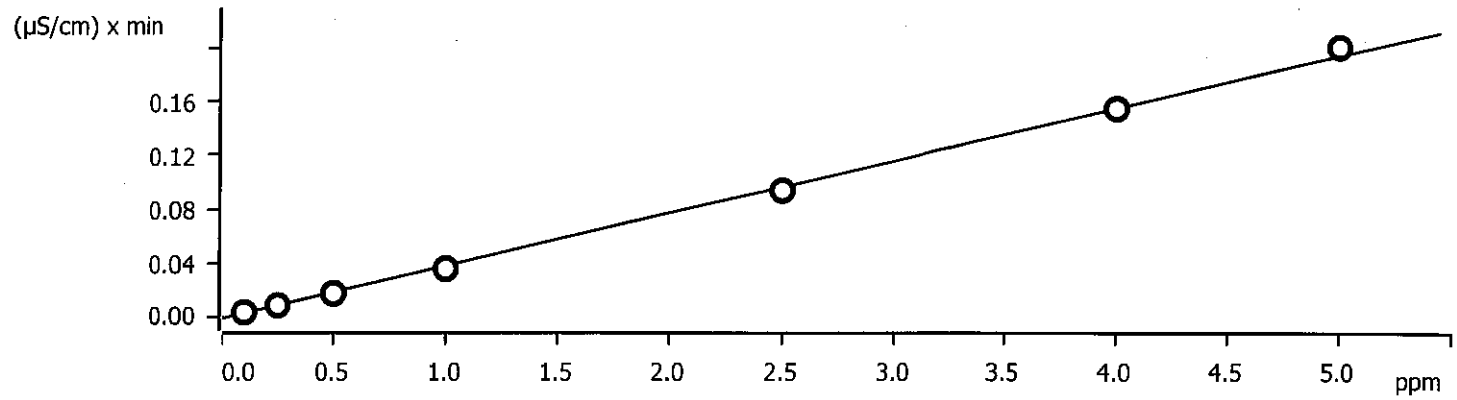
Function: . . . . . *A = - 0.0118063 + 0.0130830× Q*

Relative standard deviation . . . . . *5.410643 %*

Correlation coefficient *0.998967*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2024-05-14 11:26:03 UTC-4	used
Standard 2	1	0.100	20.0	1.0	1.0	0.019832	STANDARD 2	2024-05-14 11:33:04 UTC-4	used
Standard 3	1	0.250	20.0	1.0	1.0	0.050700	STANDARD 3	2024-05-14 11:40:11 UTC-4	used
Standard 4	1	0.500	20.0	1.0	1.0	0.105247	STANDARD 4	2024-05-14 11:47:19 UTC-4	used
Standard 5	1	1.000	20.0	1.0	1.0	0.224833	STANDARD 5	2024-05-14 11:54:23 UTC-4	used
Standard 6	1	2.500	20.0	1.0	1.0	0.628540	STANDARD 6	2024-05-14 12:01:29 UTC-4	used
Standard 7	1	4.000	20.0	1.0	1.0	1.044838	STANDARD 7	2024-05-14 12:08:34 UTC-4	used
Standard 8	1	5.000	20.0	1.0	1.0	1.344941	STANDARD 8	2024-05-14 12:15:41 UTC-4	used

Bromide (Anions)



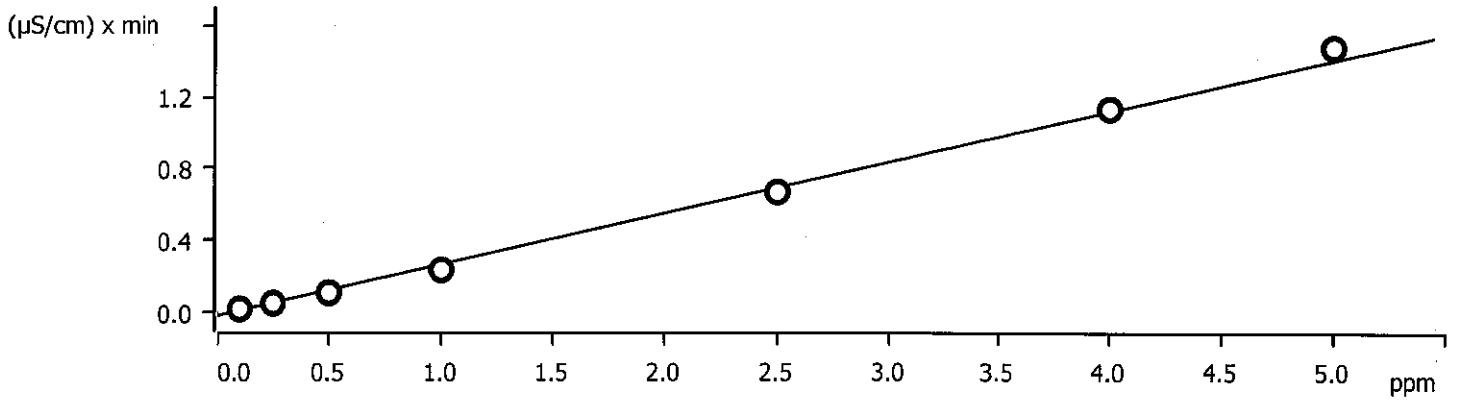
Function: . . . . . *A = - 8.92874E-4 + 1.95564E-3× Q*

Relative standard deviation . . . . . *4.518707 %*

Correlation coefficient *0.999250*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2024-05-14 11:26:03 UTC-4	used
Standard 2	1	0.100	20.0	1.0	1.0	0.003507	STANDARD 2	2024-05-14 11:33:04 UTC-4	used
Standard 3	1	0.250	20.0	1.0	1.0	0.008723	STANDARD 3	2024-05-14 11:40:11 UTC-4	used
Standard 4	1	0.500	20.0	1.0	1.0	0.017602	STANDARD 4	2024-05-14 11:47:19 UTC-4	used
Standard 5	1	1.000	20.0	1.0	1.0	0.035962	STANDARD 5	2024-05-14 11:54:23 UTC-4	used
Standard 6	1	2.500	20.0	1.0	1.0	0.094250	STANDARD 6	2024-05-14 12:01:29 UTC-4	used
Standard 7	1	4.000	20.0	1.0	1.0	0.155267	STANDARD 7	2024-05-14 12:08:34 UTC-4	used
Standard 8	1	5.000	20.0	1.0	1.0	0.201155	STANDARD 8	2024-05-14 12:15:41 UTC-4	used

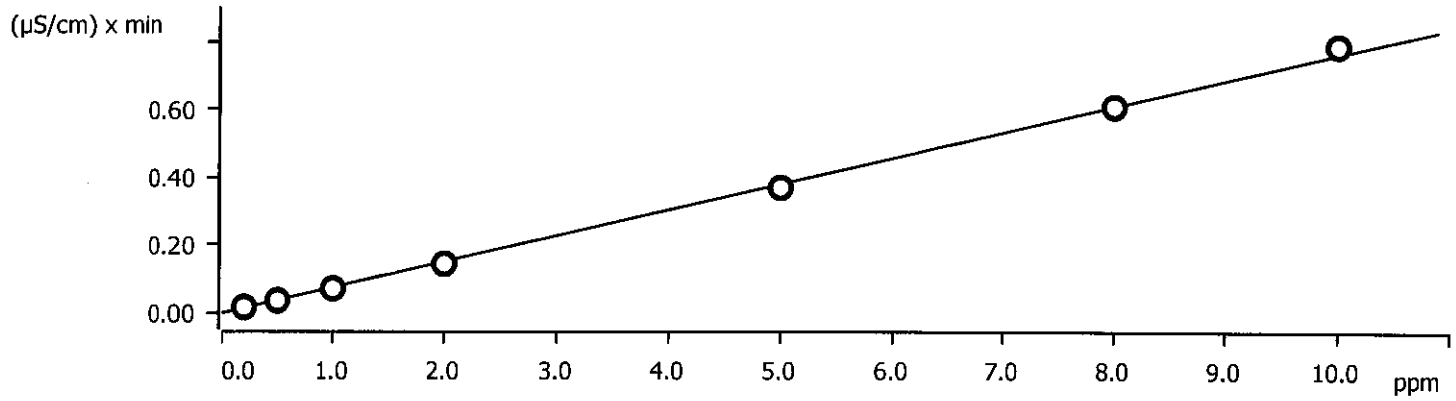
Nitrate (Anions)



Function: . . . . . *A = - 0.0142319 + 0.0141394× Q*
Relative standard deviation . . . . . *7.321010 %*
Correlation coefficient *0.998151*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2024-05-14 11:26:03 UTC-4	used
Standard 2	1	0.100	20.0	1.0	1.0	0.020994	STANDARD 2	2024-05-14 11:33:04 UTC-4	used
Standard 3	1	0.250	20.0	1.0	1.0	0.053134	STANDARD 3	2024-05-14 11:40:11 UTC-4	used
Standard 4	1	0.500	20.0	1.0	1.0	0.110304	STANDARD 4	2024-05-14 11:47:19 UTC-4	used
Standard 5	1	1.000	20.0	1.0	1.0	0.235937	STANDARD 5	2024-05-14 11:54:23 UTC-4	used
Standard 6	1	2.500	20.0	1.0	1.0	0.667520	STANDARD 6	2024-05-14 12:01:29 UTC-4	used
Standard 7	1	4.000	20.0	1.0	1.0	1.129908	STANDARD 7	2024-05-14 12:08:34 UTC-4	used
Standard 8	1	5.000	20.0	1.0	1.0	1.472055	STANDARD 8	2024-05-14 12:15:41 UTC-4	used

Sulfate (Anions)



Function: . . . . . *A = - 2.98886E-3 + 3.81824E-3× Q*
Relative standard deviation . . . . . *4.398793 %*
Correlation coefficient *0.999285*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2024-05-14 11:26:03 UTC-4	used
Standard 2	1	0.200	20.0	1.0	1.0	0.014314	STANDARD 2	2024-05-14 11:33:04 UTC-4	used
Standard 3	1	0.500	20.0	1.0	1.0	0.034220	STANDARD 3	2024-05-14 11:40:11 UTC-4	used
Standard 4	1	1.000	20.0	1.0	1.0	0.069242	STANDARD 4	2024-05-14 11:47:19 UTC-4	used
Standard 5	1	2.000	20.0	1.0	1.0	0.142049	STANDARD 5	2024-05-14 11:54:23 UTC-4	used
Standard 6	1	5.000	20.0	1.0	1.0	0.368157	STANDARD 6	2024-05-14 12:01:29 UTC-4	used

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 7	1	8.000	20.0	1.0	1.0	0.606764	STANDARD 7	2024-05-14 12:08:34 UTC-4	used
Standard 8	1	10.000	20.0	1.0	1.0	0.785337	STANDARD 8	2024-05-14 12:15:41 UTC-4	used

ALS Environmental

1575 Jefferson Road, Building 300, Suite 360, Rochester, New York 14623

Ion Chromatography Cover Sheet

Instrument: **Metrohm IC 930 (IC#10)**

Column: **Dionex IonPac AS22-Fast (Installed 04/23/2024)**

Curve Date: **05/14/24** **Loop size: 25 uL Loop**

Analyst: KAW **Analysis Date:** 5/14/24

Balance ID for Soil Preparation: NA

Is copy of LCS attached to run? (YES) / NO

Method Filename: 10-051424FAST

Standards Prep Dates & Log ID's:

Std Type	*Prep Date*	*Log ID*		*Std Type*	*Prep Date*	*Log ID*
Calibration Intermediate	04/23/2024	234759		Working Calibration Stds	05/14/2024	WC236013M
LCS / MS Intermediate	04/23/2024	234759		Working LCS/MS Standard	05/14/2024	WC236092A
ICV Intermediate	05/14/2024	235191		Working ICV Standard	05/14/2024	WC236034A
CCV Intermediate	05/14/2024	235191		Working CCV Standard	05/14/2024	WC236034A

Original Retention Times for this method are based on Standard 6 and are as follows:

Fluoride: 1.51	Bromide: 2.67
Chloride: 2.00	Nitrate: 2.95
Nitrite: 2.31	Sulfate: 4.48

Additional Comments: Column Serial Number: 231214122
Linear Range Verification (High Standard) Analyzed: 03/09/2024 – Due Every Six Months

Pipets: Chrome, Bottom
Disposable Pipet ID: (Fisher) 26023005

Eluent Stock (100x): 235121
Suppressor Stock (5x): 235047

CALIBRATION STANDARDS PREP

(Stocks delivered using volumetric glassware and brought to volume with DI Water. Expire after 7 days.)

Std #	mLs Intermediate Stock	Final Vol. mLs	Final Std. Conc. (mg/L)							Calibration Intermediate Stock ID	Analyst / Date Prepped	Lot ID	Exp. Date	Matrix H_2SO_4/NaOH/DI	H_2SO_4 / NaOH Lot #
			F	Cl	NO_2	Br	NO_3	OPO_4	SO_4						
8	10.0	100	5.0	10.0	5.0	5.0	5.0	5.0	10.0	231324	KAW 10/19/23	A	10/26/23	DI	—
7	8.0	100	4.0	8.0	4.0	4.0	4.0	4.0	8.0	232056	KAW 11/15/23	B	11/30/23	DI	—
6	5.0	100	2.5	5.0	2.5	2.5	2.5	2.5	5.0	232528	KAW 12/6/23	C	12/13/23	DI	—
5	2.0	100	1.0	2.0	1.0	1.0	1.0	1.0	2.0	232528	KW 12/27/23	D	1/8/24	DI	—
4	1.0	100	0.5	1.0	0.5	0.5	0.5	0.5	1.0	233462	KW 2/28/24	E	3/31/24	DI	—
3	0.5	100	0.25	0.50	0.25	0.25	0.25	0.25	0.50	233462	KAW 3/5/24	F	3/12/24	DI	—
2	0.2	100	0.10	0.20	0.10	0.10	0.10	0.10	0.20	233462	KW 3/7/24	G	3/14/24	DI	—
1	0.0	100	0.0	0.00	0.0	0.0	0.0	0.0	0.00	~~23~~ KW 3/7/24	~~KW 3/6/24~~	H	~~3/13/24~~	~~DI~~	—
										234182	KW 3/20/24	I	3/27/24	DI	—
										234182	KAW 3/21/24	J	3/28/24	DI	—
										234182	KAW 3/22/24	K	3/29/24	DI	—
										234759	KW 4/23/24	L	4/30/24	DI	—
										234759	KAW 5/14/24	M	5/21/24	DI	—
												N			
												O			
												P			
												Q			

ICV / CCV PREP

(A 1:1 dilution of the Reference Intermediate Stock is done daily.)

Analyte	ICV / CCV Intermediate Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst / Date Prepped	Lot ID	Exp. Date	Matrix H_2SO_4 / NaOH / DI	H_2SO_4 / NaOH Lot #
F	235191	4.00	5.0	10.0	2.00	KAW 5/14/24	A	5/15/24	DI	—
Cl		8.00			4.00	KAW 5/15/24	B	5/16/24	DI	—
NO_2		4.00			2.00		C			
Br		4.00			2.00		D			
NO_3		4.00			2.00		E			
OPO_4		4.00			2.00		F			
SO_4		8.00			4.00		G			
							H			
							I			
							J			
							K			
							L			
							M			
							N			
							O			
							P			
							Q			
							R			

LCS Prep

(Stocks delivered using volumetric glassware and brought to volume with DI. LCS expires after 7 days; if NO_2 is needed, LCS must be prepared daily.)

(MS prepared fresh daily using same volume of intermediate stock added to 100mLs sample. MS not prepared volumetrically.)

Analyte	Calibration Intermediate Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst / Date Prepped	Lot ID	Exp. Date	Matrix H_2SO_4 / NaOH / DI	H_2SO_4 / NaOH Lot #
F	234759	50	2.0	200	1.0	KAW 5/14/24	A	5/21/24	DI	—
Cl		100			2.0	KAW 5/15/24	B	5/22/24	DI	—
NO_2		50			1.0		C			
Br		50			1.0		D			
NO_3		50			1.0		E			
OPO_4		50			1.0		F			
SO_4		100			2.0		G			
							H			
							I			
							J			
							K			
							L			
							M			
							N			
							O			
							P			
							Q			
							R			

Standard Solution Logbook - Inventory ID Summary

Inventory ID:	235191	Date Created:	5/15/24
Standard Name:	300.0 ICV/CCV Intermediate Stock 2/4ppm	Expiration Date:	8/8/24
Standard Type:	Working Standard	Source:	IN HOUSE
ALS Lab:	ROCHESTER	Catalog #:	N/A
ALSTeam:	GenChem	Lot #:	
Container ID:	235191	Amount Prepared:	1.00 L
Location:	IC Bench		

Component Name	Amount	Units	Method / Test Name
Bromide	4	ppm	300.0 / Br
Chloride	8	ppm	300.0 / Chloride
Density	1.0000	%v	ASTM D1475-98(08) / Dens
Fluoride	4	ppm	300.0 / F
Nitrate as Nitrate	4	ppm	300.0 / NO3
Nitrate as Nitrogen	4	ppm	300.0 / NO3
Nitrite as Nitrite	4	ppm	300.0 / NO2
Nitrite as Nitrogen	4	ppm	300.0 / NO2
Specific Gravity	1.0000	%v	ASTM D1475-98(08) / Sp G
Sulfate	8	ppm	300.0 / SO4

Ingredients (Inventory ID: 235191)

Amount	Solution Name	Inventory ID	Material Type
1.000 L	Water Deionized H2O	2262	Reagent
4.000 mL	Nitrite (NO2) 1000 ppm as N	225981	Stock Standard
4.000 mL	Fluoride 1000 ug/mL F	229086	Stock Standard
4.000 mL	Bromide 1000 ug/mL Br	229090	Stock Standard
4.000 mL	Nitrate (NO3) 1000 ppm as N	229092	Stock Standard
8.000 mL	Chloride 1000 ug/mL Cl	234592	Stock Standard
8.000 mL	Sulfate 1000 ug/mL SO4	234593	Stock Standard

Standard Solution Logbook - Inventory ID Summary

Inventory ID:	234759	Date Created:	4/23/24
Standard Name:	300.0 Calibration/LCS/MS Intermediate 50/100	Expiration Date:	9/30/24
Standard Type:	Stock Standard	Source:	IN HOUSE
ALS Lab:	ROCHESTER	Catalog #:	N/A
ALSTeam:	GenChem	Lot #:	
Container ID:	234759	Amount Prepared:	200.00 mL
Location:	IC BENCH		

Component Name	Amount	Units	Method / Test Name
Bromide	50	ppm	300.0 / Br
Chloride	100	ppm	300.0 / Chloride
Density	600000	mg/L	ASTM D1475-98(08) / Dens
Fluoride	50	ppm	300.0 / F
Nitrate as Nitrate	50	ppm	300.0 / NO3
Nitrate as Nitrogen	50	ppm	300.0 / NO3
Nitrite as Nitrite	50	ppm	300.0 / NO2
Nitrite as Nitrogen	50	ppm	300.0 / NO2
Specific Gravity	0.60000	mg/L	ASTM D1475-98(08) / Sp G
Sulfate	100	ppm	300.0 / SO4

Ingredients (Inventory ID: 234759)

Amount	Solution Name	Inventory ID	Material Type
120.000 mL	Water Deionized H2O	2262	Reagent
10.000 mL	Bromide 1000 ug/mL Br	228428	Stock Standard
10.000 mL	Fluoride 1000 ug/mL F	228501	Stock Standard
20.000 mL	Sulfate 1000 ug/mL SO4	231552	Stock Standard
20.000 mL	Chloride 1000 ug/mL Cl	231553	Stock Standard
10.000 mL	Nitrate (NO3) 1000 ppm as N	232424	Stock Standard
10.000 mL	Nitrite (NO2) 1000 ppm as N	234066	Stock Standard

ATTACHMENT B
FIELD DOCUMENTATION

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3 9-Month Sampling						**Project No.: 300-082.0043**			**Date: 5/28/24**		Civil & Environmental Consultants of New York, Inc.	
Personnel: LDC						**Total Depth:**						
Depth to Top of Screen: NM						**Well Diameter (in.): 0.5**	**Date/Time of Pump Installation: 5/28/24 1532**			**Permanent?: No**	**Pump Type: Peristatic**	
Well #: RU-9			**Static Water Level: 7.60**			**Pump Depth: 14 ft btoc**			**Water Level after Pump Installation: NM**			**Time of Purge Initiation: 1535**
Time	**Flow Rate (mL/min)**	**Turbidity (NTU)**	**pH (S.U.)**	**Cl (mg/L)**	**ORP (mV)**	**Diss. Oxygen (ppm)**	**Spec. Cond. (µS/cm)**	**Appearance**	**Temp (°C)**	**TDS (ppm)**	**Water Level (ft)**	**Other Field Measurements:** pH Alk.= 0 ppm Total Alk.= 60 ppm
1538	225	NM	9.86	NM	-148	4.00	339	clear, slightly orange	18.09	218	NM	
1541	200	36.6	9.14	NM	-111	3.81	323	clear, slightly orange	18.40	210	NM	
1545	200	35.1	8.62	NM	216	3.74	328	clear, slightly orange	18.31	213	NM	**Notes:**
1548	200	35.3	8.35	NM	227	3.72	333	clear, slightly orange	18.17	217	NM	NM - Not Measured
1551	200	32.0	8.08	NM	242	3.72	338	clear, slightly orange	18.05	220	NM	Sample ID: OLN-RU009-F008 CENSUS sample collected
1554	200	26.2	8.00	NM	250	3.74	340	clear, slightly orange	17.92	221	NM	OLN-FB001-B008 collected at 1653
1557	200	25.7	7.80	NM	262	3.75	344	clear, slightly orange	17.87	224	NM	
1600	200	24.9	7.78	NM	270	3.78	347	clear, slightly orange	17.74	226	NM	
1603	200	22.9	7.73	NM	276	3.75	351	clear, slightly orange	14.66	229	NM	**Deviations from SAP:**
												Well diameter is too small for water level and tubing. Water level not continuously recorded.

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 5/28/24	Time: 1606	Water Level: NM	pH (S.U.): 7.67	Cl (mg/L): NM	TDS (ppm): 234	Spec. Cond (µS/cm): 357
ORP (mV): 281	Diss. Oxygen (ppm): 3.72	Turbidity (NTU): 16.8	Odor: none			Volume Removed: 2.5 gal
Color/Appearance: clear, slightly orange						Temperature (°C): 17.6

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3 9-Month Sampling	**Project No.: 300-082.0043**	**Date: 5/29/24**	Civil & Environmental Consultants of New York, Inc.
Personnel: LDC, LJR	**Total Depth: 12.65 FT TOC**		
Depth to Top of Screen: NM	**Well Diameter (in.): 0.5**	**Date/Time of Pump Installation: 5/29/24 1620**	**Permanent? No** / **Pump Type: Peristaltic**
Well #: RU-10 / **Static Water Level: 6.85 FT TOC**	**Pump Depth: 16 FT TOC**	**Water Level after Pump Installation: 6.45 FT TOC**	**Time of Purge Initiation: 1659**

Time	Flow Rate (mL/min)	Turbidity (NTU)	pH (S.U.)	Cl (mg/L)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Appearance	Temp (°C)	TDS (ppm)	Water Level (ft)
1710	60	>1000	6.05	NM	-13	7.10	715	brown cloudy	16.13	458	NM
1712	DRY @ <0.25 gal	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

Other Field Measurements:
pH Alk.= NM
Total Alk.= NM

Notes:

NM - Not Measured

Sample ID: OLN-RU010-F008
Soy emulsion on WL probe; thick slurry
Significant air in line as well purged dry

OLN-FB002-B008 collected @ 1725

Deviations from SAP:

Well purged dry. Insufficient volume to collect field readings after well recovered; insufficient volume to collect CENSUS sample and COD.

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 5/29/24	Time: 1750	Water Level: NM	pH (S.U.):NM	Cl (mg/L): NM	TDS (ppm): NM / Spec. Cond (µS/cm): NM
ORP (mV): NM	Diss. Oxygen (ppm): NM	Turbidity (NTU): NM	Odor: none		Volume Removed: 0.25 gal
Color/Appearance: cloudy, light brown					Temperature (°C): NM

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3 9-Month Sampling						**Project No.: 300-082.0043**			**Date: 5/29/24**		Civil & Environmental Consultants of New York, Inc.	
Personnel: LDC, LJR						**Total Depth: 15.00 FT TOC**						
Depth to Top of Screen: NM						**Well Diameter (in.): 0.50**	**Date/Time of Pump Installation: 5/29/24 0800**			**Permanent?: No**	**Pump Type: Peristaltic**	
Well #: RU-15			**Static Water Level: 6.32 FT TOC**			**Pump Depth: 13 FT TOC**			**Water Level after Pump Installation: NM**			**Time of Purge Initiation: 0801**

Time	Flow Rate (mL/min)	Turbidity (NTU)	pH (S.U.)	Cl (mg/L)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Appearance	Temp (°C)	TDS (ppm)	Water Level (ft)	Other Field Measurements:
0806	175	903.0	4.82	NM	170	0.21	185	turbid red-ish	13.97	119	NM	pH Alk.= 0 ppm Total Alk.= 100 ppm
0809	150	135.0	4.64	NM	174	0.51	161	slightly cloudy	13.98	105	NM	
0812	150	83.3	4.52	NM	180	0.00	133	slightly cloudy	13.81	187	NM	**Notes:**
0815	150	63.3	4.49	NM	187	0.17	145	slightly cloudy	13.76	95	NM	NM - Not Meausured
0818	150	40.0	4.47	NM	193	0.30	116	slightly cloudy	13.70	75	NM	Sample ID: OLN-RU0015-F008 OLN-EB001-E008 collected 5/30/24 @ 1630 on bladder pumps
0821	150	32.5	4.44	NM	204	0.47	112	slightly cloudy	13.64	72	NM	
0824	150	29.6	4.44	NM	211	1.34	107	slightly cloudy	13.61	71	NM	NO CENSUS sample
0827	150	31.7	5.56	NM	227	3.54	267	clear	13.60	58	Pump stopped	
0830	150	39.3	5.93	NM	274	0.11	177	clear	13.28	175	NM	**Deviations from SAP:**
0833	150	22.0	5.99	NM	269	0.10	169	clear	13.37	171	NM	Well diameter is too small for water level and tubing. Water level not continuously recorded.
0836	150	26.1	5.95	NM	269	0.03	169	clear	13.52	169	NM	Turbidity did not stabilize within 10%.
0839	150	31.4	5.96	NM	268	0.08	172	clear	13.64	170	NM	

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 5/29/24	Time: 0842	Water Level: NM	pH (S.U.): 6.02	Cl (mg/L): NM	TDS (ppm): 177	Spec. Cond (µS/cm): 270
ORP (mV): 159	Diss. Oxygen (ppm): 0.00	Turbidity (NTU): NM	Odor: none			Volume Removed: 2 gal
Color/Appearance: clear						Temperature (°C): 13.89

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3 9-Month Sampling						**Project No.: 300-082.0043**			**Date: 5/29/24**			
Personnel: LDC, LJR						**Total Depth: 19.48 FT TOC**						
Depth to Top of Screen: NM						**Well Diameter (in.): 2**	**Date/Time of Pump Installation: 5/29/24 1640**			**Permanent? No**	**Pump Type: Bladder**	
Well #: RU-19			**Static Water Level: 7.83 FT TOC**			**Pump Depth: 18 FT TOC**			**Water Level after Pump Installation: 7.55 FT TOC**			**Time of Purge Initiation: 1640**
Time	**Flow Rate (mL/min)**	**Turbidity (NTU)**	**pH (S.U.)**	**Cl (mg/L)**	**ORP (mV)**	**Diss. Oxygen (ppm)**	**Spec. Cond. (µS/cm)**	**Appearance**	**Temp (°C)**	**TDS (ppm)**	**Water Level (ft)**	**Other Field Measurements:** pH Alk.= 0 ppm Total Alk.= 620 ppm
1647	230	>1000	6.45	NM	-10	3.73	2380	gray cloudy	16.40	1610	7.95	
1652	230	>1000	6.67	NM	-34	5.30	2160	gray cloudy	15.35	1410	8.10	
1655	230	>1000	6.71	NM	-45	5.85	2100	gray cloudy	13.93	1310	8.15	**Notes:**
1658	230	>1000	6.71	NM	-48	5.84	1980	gray cloudy	14.54	1260	8.20	NM - Not Measured
1701	230	>1000	6.74	NM	-55	5.22	1900	gray cloudy	14.83	1200	8.21	Sample ID: OLN-RU019-F008
1704	230	981	6.75	NM	-57	5.13	1870	gray cloudy	14.81	1180	8.20	
1707	230	828	6.75	NM	-59	5.04	1810	gray cloudy	14.74	1160	8.20	
1710	230	767	6.75	NM	-60	4.93	1720	gray cloudy	14.60	1110	8.20	
1713	230	747	6.74	NM	-60	4.77	1650	gray cloudy	14.46	1050	8.20	**Deviations from SAP:**
1716	230	820	6.75	NM	-59	4.55	1620	gray cloudy	14.02	1060	8.20	
1719	230	770	6.75	NM	-59	4.54	1620	gray cloudy	13.83	1040	8.20	

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 5/29/24	Time: 1720	Water Level: 8.20	pH (S.U.): 6.76	Cl (mg/L): NM	TDS (ppm): 1,020	Spec. Cond (µS/cm): 1,570
ORP (mV): -59	Diss. Oxygen (ppm): 4.42	Turbidity (NTU): 767	Odor: none			Volume Removed: --
Color/Appearance: cloudy, gray						Temperature (°C): 13.67

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3 9-Month Sampling						**Project No.: 300-082.0043**			**Date: 5/29/24**			
Personnel: LDC, LJR						**Total Depth: 38.40 FT TOC**						**Civil & Environmental Consultants of New York, Inc.**
Depth to Top of Screen: NM						**Well Diameter (in.): 2**		**Date/Time of Pump Installation: 5/29/24 1402**			**Permanent? No**	**Pump Type: Bladder**
Well #: RU-20			**Static Water Level: 10.04 FT TOC**			**Pump Depth: 18 FT TOC**			**Water Level after Pump Installation: 10.35 FT TOC**			**Time of Purge Initiation: 1410**

Time	Flow Rate (mL/min)	Turbidity (NTU)	pH (S.U.)	Cl (mg/L)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Appearance	Temp (°C)	TDS (ppm)	Water Level (ft)	Other Field Measurements:
1413	450	46.6	7.26	NM	-225	8.09	686	cloudy	11.60	438	10.60	pH Alk.= 0 ppm Total Alk.= 248 ppm
1416	400	50.6	7.29	NM	-247	4.97	678	cloudy	12.07	429	10.58	
1419	375	48.5	7.28	NM	-251	4.33	639	cloudy	13.49	403	10.59	**Notes:**
1422	375	55.7	7.20	NM	-253	3.85	627	cloudy	14.34	396	10.58	NM - Not Measured
1425	375	84.7	7.25	NM	-258	3.52	627	cloudy	14.62	398	10.58	Sample ID: OLN-RU020-F008
1428	375	88.4	7.17	NM	-255	3.35	627	cloudy	14.74	405	10.59	
1431	375	90.5	7.18	NM	-257	2.45	641	cloudy	14.77	411	10.58	
1434	375	97.9	7.20	NM	-256	0.00	680	cloudy	14.73	435	10.58	
1437	375	100	7.26	NM	-254	0.00	711	cloudy	14.68	458	10.58	**Deviations from SAP:**
1440	375	102	7.28	NM	-255	0.00	734	cloudy	14.65	472	10.58	Specific conductivity did not stabilize within 3%.
1443	375	104	7.29	NM	-254	0.00	768	cloudy	14.61	495	10.58	
1446	375	106	7.29	NM	-253	0.00	814	cloudy	14.80	526	10.58	
1450	375	108	7.30	NM	-253	0.00	823	cloudy	14.54	534	10.58	
1453	375	111	7.29	NM	-251	0.00	867	cloudy	14.51	551	10.58	

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 5/29/24	Time: 1455	Water Level: 10.58	pH (S.U.): 7.30	Cl (mg/L): NM	TDS (ppm): 561	Spec. Cond (µS/cm): 875
ORP (mV): -250	Diss. Oxygen (ppm): 0.00	Turbidity (NTU): 112	Odor: slight odor			Volume Removed: 4.5 gal
Color/Appearance: cloudy/sheen						Temperature (°C): 14.52

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3 9-Month Sampling						**Project No.: 300-082.0043**			**Date: 5/29/24**			
Personnel: LDC, LJR						**Total Depth: 19.25 FT TOC**						Civil & Environmental Consultants of New York, Inc.
Depth to Top of Screen: NM						**Well Diameter (in.): 2**		**Date/Time of Pump Installation: 5/29/24 1522**		**Permanent? No**	**Pump Type: Bladder**	
Well #: RU-21			**Static Water Level: 7.33 FT TOC**			**Pump Depth: 17 FT TOC**			**Water Level after Pump Installation: 6.78 FT TOC**			**Time of Purge Initiation: 1525**

Time	Flow Rate (mL/min)	Turbidity (NTU)	pH (S.U.)	Cl (mg/L)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Appearance	Temp (°C)	TDS (ppm)	Water Level (ft)	Other Field Measurements:
1529	130	118	6.35	NM	-20	0.33	658	slightly cloudy	16.52	421	7.92	pH Alk.= 0 ppm Total Alk.= 304 ppm
1532	130	117	6.37	NM	-26	0.00	656	slightly cloudy	15.96	426	8.26	
1535	130	106	6.42	NM	-36	0.29	720	slightly cloudy	15.43	460	9.00	**Notes:**
1541	70	96.1	6.50	NM	-42	0.00	741	slightly cloudy	15.43	474	9.00	NM - Not Measured
1544	70	94.2	6.53	NM	-46	0.00	760	slightly cloudy	15.45	487	8.89	Sample ID: OLN-RU021-F008 OLN-FD0001-D008 collected @ 0700
1547	100	96.3	6.56	NM	-51	0.00	781	slightly cloudy	15.53	502	8.69	
1550	100	95.6	6.66	NM	-58	0.00	797	slightly cloudy	15.61	510	8.61	
1553	100	93.7	6.67	NM	-60	0.00	830	slightly cloudy	15.63	524	8.53	
1556	100	90.8	6.68	NM	-61	0.00	826	slightly cloudy	15.65	528	8.48	**Deviations from SAP:**
1559	100	89.0	6.70	NM	-62	0.00	839	slightly cloudy	15.70	535	8.39	
1602	100	88.9	6.70	NM	-62	0.00	815	slightly cloudy	15.72	530	8.35	
1605	100	84.3	6.71	NM	-63	0.00	841	slightly cloudy	15.72	535	8.32	
1608	100	84.0	6.73	NM	-63	0.00	845	slightly cloudy	15.73	536	8.29	

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 5/29/24	Time: 1611	Water Level: 8.25	pH (S.U.): 6.73	Cl (mg/L): NM	TDS (ppm): 537	Spec. Cond (µS/cm): 849
ORP (mV): -63	Diss. Oxygen (ppm): 0.00	Turbidity (NTU): 83.1	Odor: none			Volume Removed: 1.5 gal
Color/Appearance: slightly cloudy gray with fine particles; trace sheen						Temperature (°C): 15.72

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3 9-Month Sampling	**Project No.: 300-082.0043**	**Date: 5/29/24**	Civil & Environmental Consultants of New York, Inc.
Personnel: LDC, LJR	**Total Depth: 17.80 FT TOC**		
Depth to Top of Screen: NM	**Well Diameter (in.): 2**	**Date/Time of Pump Installation: 5/29/24 1352**	**Permanent? No** / **Pump Type: Bladder**
Well #: RU-27A / **Static Water Level: 7.29 FT TOC**	**Pump Depth: 16 FT TOC**	**Water Level after Pump Installation: 7.29 FT TOC**	**Time of Purge Initiation: 1356**

Time	Flow Rate (mL/min)	Turbidity (NTU)	pH (S.U.)	Cl (mg/L)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Appearance	Temp (°C)	TDS (ppm)	Water Level (ft)
1403	120	220	6.76	NM	-78	0.31	831	clear; bacteria odor	15.77	541	7.41
1406	225	58.7	6.72	NM	-74	0.21	835	clear; bacteria odor	16.13	536	7.42
1412	200	62.0	6.74	NM	-73	0.00	798	clear; bacteria odor	16.50	511	7.49
1415	200	58.5	6.71	NM	-69	0.00	801	clear; bacteria odor	16.43	513	7.49
1418	200	55.5	6.71	NM	-68	0.00	805	clear; bacteria odor	16.36	515	7.48
1421	200	56.1	6.69	NM	-65	0.00	806	clear; bacteria odor	16.24	516	7.45

Other Field Measurements:
pH Alk.= 0 ppm
Total Alk.= 400 ppm

Notes:

NM - Not Measured

Sample ID: OLN-RU27A-F008

Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 5/29/24	Time: 1421	Water Level: 7.45	pH (S.U.): 6.69	Cl (mg/L): NM	TDS (ppm): 516	Spec. Cond (µS/cm): 806
ORP (mV): -65	Diss. Oxygen (ppm): 0.00	Turbidity (NTU): 56.1	Odor: slight bacteria odor			Volume Removed: 1.5 gal
Color/Appearance: clear						Temperature (°C): 16.24

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3 9-Month Sampling						**Project No.: 300-082.0043**			**Date: 5/29/24**			
Personnel: LDC, LJR						**Total Depth: 17.80 FT TOC**						
Depth to Top of Screen: NM						**Well Diameter (in.): 2**	**Date/Time of Pump Installation: 5/29/24 1203**			**Permanent?: No**	**Pump Type: Bladder**	
Well #: RU-28			**Static Water Level: 6.49 FT TOC**			**Pump Depth: 15 FT TOC**			**Water Level after Pump Installation: 6.45 FT TOC**			**Time of Purge Initiation: 1206**

Time	Flow Rate (mL/min)	Turbidity (NTU)	pH (S.U.)	Cl (mg/L)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Appearance	Temp (°C)	TDS (ppm)	Water Level (ft)	Other Field Measurements:
1214	220	279	6.29	NM	226	7.91	178	clear	17.82	116	6.10	pH Alk.= 0 ppm Total Alk.= 75 ppm
1217	200	255	6.32	NM	241	6.58	174	cloudy	17.19	113	6.95	
1220	200	245	6.33	NM	257	6.05	106	cloudy	19.44	106	7.00	**Notes:**
1223	200	239	6.41	NM	259	6.06	162	cloudy	19.94	105	7.02	NM - Not Measured
1226	200	245	6.48	NM	264	6.16	163	cloudy	20.09	105	7.01	Sample ID: OLN-RU028-F008
1229	200	253	6.45	NM	268	6.08	160	cloudy	19.95	105	7.00	
1232	200	255	6.51	NM	271	6.37	164	cloudy	18.41	108	7.02	
												Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 5/29/24	Time: 1235	Water Level: 7.02	pH (S.U.): 6.53	Cl (mg/L): NM	TDS (ppm): 112	Spec. Cond (µS/cm): 172
ORP (mV): 276	Diss. Oxygen (ppm): 6.42	Turbidity (NTU): 256	Odor: none			Volume Removed: --
Color/Appearance: cloudy						Temperature (°C): 16.91

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3 9-Month Sampling	**Project No.: 300-082.0043**	**Date: 5/29/24**	Civil & Environmental Consultants of New York, Inc.
Personnel: LDC, LJR	**Total Depth: 18.85 FT TOC**		
Depth to Top of Screen: NM	**Well Diameter (in.): 2**	**Date/Time of Pump Installation: 5/29/24 1010**	**Permanent?: No** / **Pump Type: Bladder**
Well #: UA-2	**Static Water Level: 7.29 FT TOC**	**Pump Depth: 15 FT TOC**	**Water Level after Pump Installation: 7.29 FT TOC** / **Time of Purge Initiation: 1012**

Time	Flow Rate (mL/min)	Turbidity (NTU)	pH (S.U.)	Cl (mg/L)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Appearance	Temp (°C)	TDS (ppm)	Water Level (ft)
1019	270	7.1	5.98	NM	81	2.49	347	clear	12.48	226	7.41
1022	250	7.2	5.91	NM	71	0.92	346	clear	12.15	226	7.39
1025	290	7.3	5.86	NM	62	0.28	348	clear	12.02	226	7.43
1031	250	6.9	5.84	NM	51	0.10	350	clear	12.00	227	7.41
1034	250	6.6	5.82	NM	42	0.00	352	clear	11.98	229	7.40
1037	250	6.3	5.81	NM	30	0.00	353	clear	11.94	229	7.42
1040	250	5.9	5.81	NM	21	0.00	353	clear	11.90	230	7.40
1043	250	6.5	5.81	NM	9	0.00	355	clear	11.81	231	7.41
1046	250	4.9	5.81	NM	0	0.00	357	clear	11.77	232	7.41
1049	250	4.2	5.81	NM	-9	0.00	358	clear	11.73	233	7.42
1052	250	4.7	5.81	NM	-17	0.00	359	clear	11.70	234	7.41
1055	250	3.5	5.81	NM	-28	0.00	360	clear	11.69	234	7.43
1058	250	3.1	5.81	NM	-34	0.00	358	clear	11.70	233	7.42

Other Field Measurements:
pH Alk.= 0 ppm
Total Alk.= 44 ppm

Notes:

NM - Not Measured

Sample ID: OLN-UA002-F008
OLN-MD001-M008 & OLN-MS001-M008
Collected 5/29/24 @ 1010

NO CENSUS sample

Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 5/29/24	Time: 1101	Water Level: 7.42	pH (S.U.): 5.81	Cl (mg/L): NM	TDS (ppm): 231	Spec. Cond (µS/cm): 356
ORP (mV): -38	Diss. Oxygen (ppm): 0.00	Turbidity (NTU): 3.0	Odor: none			Volume Removed: 3.5 gal
Color/Appearance: clear						Temperature (°C): 11.59

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3 9-Month Sampling			**Project No.: 300-082.0043**	**Date: 5/29/24**	Civil & Environmental Consultants of New York, Inc.
Personnel: LDC, LJR			**Total Depth: N/A**		
Depth to Top of Screen: NM			**Well Diameter (in.):**	**Date/Time of Pump Installation:**	**Permanent?:** / **Pump Type: N/A**
Well #: WW18M	**Static Water Level: N/A**		**Pump Depth: N/A**	**Water Level after Pump Installation: N/A**	**Time of Purge Initiation: N/A**

Time	Flow Rate (mL/min)	Turbidity (NTU)	pH (S.U.)	Cl (mg/L)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Appearance	Temp (°C)	TDS (ppm)	Water Level (ft)
NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

Other Field Measurements:
pH Alk.= 0 ppm
Total Alk.= 130 ppm

Notes:

N/A - Not Applicable

Sample ID: OLN-WW18M-F008

Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 5/29/24	Time: 0915	Water Level: NM	pH (S.U.): 6.48	Cl (mg/L): NM	TDS (ppm): 347	Spec. Cond (µS/cm): 542
ORP (mV): 230	Diss. Oxygen (ppm): 3.80	Turbidity (NTU): 0.6	Odor:none			Volume Removed: N/A
Color/Appearance: clear						Temperature (°C): 13.64

APPENDIX E
TWELVE MONTH SAMPLING RECORDS

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0050**	**Date: 8/20/2024**	Civil & Environmental Consultants of New York, Inc., Inc.
Personnel: LJR	**Well #: RU-9 (OLN-RU009-F009)**	**Static Water Level: 7.86 FT TOC**	
Depth to Top of Screen: NA	**Well Diameter (in.): 0.5**	**Total Well Depth: 17 FT TOC**	**Purge Method: Pump**
Time of Purge Initiation: 13:51			
☐ dedicated	**Date/Time of Pump Installation: 8/20/2024 13:50**	**Pump Type: Peristaltic**	**Pump Depth: ~12 FT TOC**
Water Level after Pump Installation: NM			

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (g/L)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
13:52	160	5.41	306	3.87	691	18.10	NA	5.2	NA	NA	NA
13:57	120	5.81	300	4.36	679	18.04	NA	4.6	NA	NA	NA
14:02	120	5.86	299	4.24	678	18.04	NA	3.2	NA	NA	NA
14:07	120	5.87	300	4.21	683	18.06	NA	2.2	NA	NA	NA
14:12	120	5.87	300	4.18	686	18.07	NA	1.7	NA	NA	NA

Other Field Measurements:
P Alk: 0.0 ppm
T Alk: 80 ppm
Fe: 0.02 mg/L

Notes:
NA: Not Analyzed

Deviations from SAP:
Unable to gauge water level during purging due to small well diameter.

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 8/20/2024	Time: 14:17	Water Level: NM	pH (S.U.): 5.89	ORP (mV): 301	Diss. Oxygen (ppm): 4.23	Spec. Cond (µS/cm): 688
Temperature: 18.07 °C	TDS (g/L): NM	Turbidity (NTU): 1.5	Color/Appearance: NA	Odor: None		Final Volume Removed: 1.5 Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0050**	**Date: 8/20/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel: LJR	**Well #: RU-11 (OLN-RU011-F009)**	**Static Water Level: 7.50 FT TOC**	

Depth to Top of Screen: NA	**Well Diameter (in.): 0.5**	**Total Well Depth: 19 FT TOC**	**Purge Method: Pump**	**Time of Purge Initiation: 17:32**
☐ dedicated	**Date/Time of Pump Installation: 8/21/2024 13:03**	**Pump Type: Peristaltic**	**Pump Depth: ~14 FT TOC**	**Water Level after Pump Installation: NA**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (g/L)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
17:35	120	6.77	-26	1.07	519	14.87	NA	107	NA	NA	NA
17:40	120	6.79	-25	1.00	505	14.92	NA	104	NA	NA	NA
17:45	120	6.81	-24	1.00	503	14.94	NA	87.8	NA	NA	NA
17:50	120	6.87	-20	0.19	514	14.98	NA	51.1	NA	NA	NA
17:55	120	6.89	-15	0.09	518	14.99	NA	33.3	NA	NA	NA
18:00	120	6.91	-14	0.12	522	15.01	NA	29.9	NA	NA	NA
18:05	120	6.93	-12	0.13	524	15.02	NA	27.1	NA	NA	NA

Other Field Measurements:
P Alk: 0.0 ppm
T Alk: 260 ppm
Fe: 0.75 mg/L

Notes:
NA: Not Analyzed

Deviations from SAP:
Unable to gauge water level during purging due to small diamter of well.
Turbidity did not stabilize within 10%.

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 8/20/2024	Time:18:08	Water Level: NM	pH (S.U.): 6.94	ORP (mV): -14	Diss. Oxygen (ppm): 0.12	Spec. Cond (µS/cm): 525
Temperature: 15.02 °C	TDS (g/L): NA	Turbidity (NTU): 25.0	Color/Appearance: NA	Odor: None		Final Volume Removed: 1 Gallon

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0050**	**Date: 8/20/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel: LJR	**Well #: RU-16 (OLN-RU016-F009)**	**Static Water Level: 8.24 FT TOC**	

Depth to Top of Screen: NA	**Well Diameter (in.): 0.5**	**Total Well Depth: 18 FT TOC**	**Purge Method: Pump**	**Time of Purge Initiation: 15:37**
☐ dedicated	**Date/Time of Pump Installation: 8/20/2024 15:35**	**Pump Type: Peristaltic**	**Pump Depth: ~13 FT TOC**	**Water Level after Pump Installation: 8.20 FT TOC**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (g/L)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
15:42	120	6.00	182	1.52	270	17.52	NA	12.4	Yellow-ish Color	8.61	0.41
15:47	120	6.03	181	0.32	265	17.56	NA	11.3	Yellow-ish Color	8.65	0.04
15:52	120	6.05	180	0.10	264	17.43	NA	11.0	Yellow-ish Color	8.65	0.00
15:57	120	6.05	178	0.03	265	17.21	NA	10.1	Yellow-ish Color	8.65	0.00
16:02	120	6.08	176	0.01	266	16.88	NA	10.0	Yellow-ish Color	8.65	0.00

Other Field Measurements:
P Alk: 0.0 ppm
T Alk: 140 ppm
Fe: 0.84 mg/L

Notes:
NA: Not Analyzed

DUP 1 Collected at 20:00
OLN-FD001-F009

Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 8/20/2024	Time:16:05	Water Level:8.65 FT TOC	pH (S.U.): 6.05	ORP (mV): 175	Diss. Oxygen (ppm):0.00	Spec. Cond (µS/cm): 267
Temperature: 16.88 °C	TDS (g/L): NA	Turbidity (NTU): 9.9	Color/Appearance: Yellow-ish color	Odor: None		Final Volume Removed: 1.5 Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0050**	**Date: 8/20/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel: BDT	**Well #: UA-2 (OLN-UA002-F009)**	**Static Water Level: 8.61 FT TOC**	

Depth to Top of Screen: NA	**Well Diameter (in.): 2**	**Total Well Depth: 18.92 FT TOC**	**Purge Method: Pump**	**Time of Purge Initiation: 14:45**
☐ dedicated	**Date/Time of Pump Installation: 8/20/2024 14:42**	**Pump Type: Bladder**	**Pump Depth: ~17 FT TOC**	**Water Level after Pump Installation: 8.63**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (g/L)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
14:50	100	6.17	-27	9.74	213	14.79	0.139	52.7	NA	8.65	0.02
14:55	100	6.01	-25	9.06	224	13.78	0.145	34.8	NA	8.65	0.00
15:00	100	5.96	-34	8.62	233	13.32	0.152	23.9	NA	8.65	0.00
15:05	100	5.95	-75	8.22	239	13.39	0.155	20.7	NA	8.65	0.00
15:10	100	5.94	-121	8.07	244	13.44	0.158	15.9	NA	8.65	0.00
15:15	100	5.92	-97	7.85	250	13.44	0.163	16.0	NA	8.65	0.00
15:20	100	5.94	-103	7.69	256	13.34	0.166	15.8	NA	8.65	0.00

Other Field Measurements:
P Alk: 0.0 ppm
T Alk: 56 ppm
Fe: 1.32 mg/L

Notes:
NA: Not Analyzed

Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 8/20/2024	Time:15:25	Water Level: 8.65 FT TOC	pH (S.U.): 5.97	ORP (mV): -110	Diss. Oxygen (ppm): 7.50	Spec. Cond (µS/cm): 260
Temperature: 13.34 °C	TDS (g/L): 0.169	Turbidity (NTU): 15.3	Color/Appearance: NA	Odor: None		Final Volume Removed: 1.0 Gallon

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0050**	**Date: 8/20/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel: BDT	**Well #:UA-3 (OLN-UA003-F009)**	**Static Water Level: 7.03 FT TOC**	

Depth to Top of Screen: NA	**Well Diameter (in.): 2**	**Total Well Depth: 19.40 FT TOC**	**Purge Method: Pump**	**Time of Purge Initiation: 12:56**
☐ dedicated	**Date/Time of Pump Installation: 8/20/2024 12:47**	**Pump Type: Bladder**	**Pump Depth: ~18 FT TOC**	**Water Level after Pump Installation: 7.22 FT TOC**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (g/L)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
13:02	100	5.72	87	0.02	295	14.75	0.176	341	NA	8.22	1.00
13:07	100	5.99	32	0.02	245	14.45	0.159	238	NA	8.41	0.19
13:12	100	6.00	27	0.02	249	14.16	0.161	200	NA	8.70	0.29
13:17	100	5.94	32	0.02	234	14.38	0.152	152	NA	9.00	0.30
13:22	100	5.94	35	0.03	223	14.41	0.145	116	NA	9.37	0.37
13:27	100	5.93	39	0.03	218	14.30	0.142	84.5	NA	9.75	0.38
13:32	100	5.92	41	0.03	216	14.27	0.141	88.7	NA	10.00	0.25

Other Field Measurements:
P Alk: 0.0 ppm
T Alk: 80 ppm
Fe: 1.03 mg/L

Notes:
NA: Not Analyzed

Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 8/20/2024	Time: 13:37	Water Level: 10.50 FT TOC	pH (S.U.): 6.01	ORP (mV): 39	Diss. Oxygen (ppm): 0.03	Spec. Cond (µS/cm): 214
Temperature: 14.27 °C	TDS (g/L): 0.139	Turbidity (NTU): 82.3	Color/Appearance: NA	Odor: None		Final Volume Removed: 1.0 Gallon

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3		**Project No.: 300-082.0050**		**Date: 8/21/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel: BDT		**Well #: CW-13 (OLN-CW013-F009)**		**Static Water Level: 14.26 FT TOC**	
Depth to Top of Screen: NA	**Well Diameter (in.): 2**	**Total Well Depth: 82.77 FT TOC**	**Purge Method: Pump**		**Time of Purge Initiation: 9:11**
☐ dedicated	**Date/Time of Pump Installation: 8/21/2024 9:08**	**Pump Type: Bladder**	**Pump Depth: ~80 FT TOC**		**Water Level after Pump Installation: 14.38 FT TOC**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (g/L)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
9:16	125	6.76	-110	1.56	1380	12.59	0.890	10.8	NA	14.38	0
9:21	125	6.81	-111	8.41	1420	12.50	0.912	4.1	NA	14.38	0
9:26	125	6.77	-110	7.61	1430	12.24	0.914	2.7	NA	14.38	0
9:31	125	6.76	-110	7.30	1430	12.28	0.914	2.4	NA	14.38	0
9:36	125	6.76	-110	7.04	1420	12.33	0.912	2.9	NA	14.38	0

Other Field Measurements:
P Alk: 0.0ppm
T Alk: 196 ppm
Fe: 2.60 mg/L

Notes:
Collected EB-01 at 10:15
OLN-EB001-E009

NA: Not Analyzed

Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 8/21/2024	Time: 9:41	Water Level: 14.38 FT TOC	pH (S.U.): 6.76	ORP (mV): -111	Diss. Oxygen (ppm): 6.73	Spec. Cond (µS/cm): 1420
Temperature: 12.33 °C	TDS (g/L): 0.913	Turbidity (NTU): 2.7	Color/Appearance: NA	Odor: None		Final Volume Removed: 1.5 Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0050**	**Date: 08/21/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel: EAM and BDT	**Well #: CW-13A (OLN-CW13A-F009)**	**Static Water Level: 6.93FT TOC**	
Depth to Top of Screen: NA	**Well Diameter (in.): 2**	**Total Well Depth: 34.04 FT TOC**	**Purge Method: Pump**
Time of Purge Initiation: 7:58			
☐ dedicated	**Date/Time of Pump Installation: 8/21/2024 7:50**	**Pump Type: Bladder**	**Pump Depth: ~33 FT TOC**
Water Level after Pump Installation: 6.95			

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (g/L)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
8:02	100	5.77	110	0.30	701	11.55	0.441	258	NA	7.42	0.47
8:07	100	6.27	32	7.84	636	11.49	0.406	114	NA	7.61	0.19
8:12	100	6.30	19	7.50	628	11.49	0.402	67.8	NA	7.73	0.12
8:17	100	6.33	13	7.40	626	11.46	0.401	52.8	NA	7.84	0.11
8:22	100	6.30	13	7.16	627	11.50	0.401	43.0	NA	7.93	0.09
8:27	100	6.30	13	7.14	626	11.50	0.400	37.4	NA	7.93	0
8:30	100	6.27	14	7.06	621	11.52	0.398	37.6	NA	7.93	0

Other Field Measurements:
P Alk.=0 ppm
T Alk.= 122 ppm
Fe: 1.72 mg/L

Notes:
NA: Not Analyzed

Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 8/21/2024	Time: 8:33	Water Level: 7.93FT TOC	pH (S.U.): 6.30	ORP (mV): 13	Diss. Oxygen (ppm): 7.00	Spec. Cond (µS/cm): 621
Temperature: 11.52 °C	TDS (g/L): 0.398	Turbidity (NTU): 36.9	Color/Appearance: NA	Odor: None		Final Volume Removed: 1.0 Gallon

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3				**Project No.: 300-082.0050**			**Date: 8/21/2024**				Civil & Environmental Consultants of New York, Inc.
Personnel: BDT				**Well #: RU-8 (OLN-RU008-F009)**			**Static Water Level: 7.37 FT TOC**				
Depth to Top of Screen: NA			**Well Diameter (in.): 0.5**			**Total Well Depth: 24 FT TOC**		**Purge Method: Pump**			**Time of Purge Initiation: 12:13**
☐ dedicated		**Date/Time of Pump Installation: 8/21/2024 12:13**			**Pump Type: Peristaltic**			**Pump Depth: ~ 20 FT TOC**			**Water Level after Pump Installation: NM**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (g/L)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)	Other Field Measurements: P Alk: 0.0 ppm T Alk: 340 ppm Fe: 0.07 mg/L
12:28	120	6.04	153	1.22	332	16.44	NA	752	NA	NA	NA	
12:33	120	5.87	109	1.06	222	16.59	NA	318	NA	NA	NA	
12:38	120	5.93	137	0.07	205	16.60	NA	135	NA	NA	NA	Notes: Collected MS/MSD: OLN-MS001-M009
12:43	120	5.97	139	0.08	202	16.56	NA	87.4	NA	NA	NA	NA: Not Analyzed
12:48	120	6.00	143	0.04	202	16.54	NA	79.0	NA	NA	NA	
12:53	120	6.04	140	0	198	16.44	NA	71.0	NA	NA	NA	
												Deviations from SAP: Unable to gauge while purging due to small well diameter.

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 8/21/2024	Time: 12:55	Water Level: NM	pH (S.U.): 6.02	ORP (mV): 139	Diss. Oxygen (ppm): 0	Spec. Cond (µS/cm): 201
Temperature: 16.44 °C	TDS (g/L): NM	Turbidity (NTU): 66.3	Color/Appearance: NA	Odor: None		Final Volume Removed: 2.5 Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0050**	**Date: 8/21/2024**
Personnel: LJR	**Well #: RU-10 (OLN-RU010-F009)**	**Static Water Level: 9.45 FT TOC**

Civil & Environmental Consultants of New York, Inc.

Depth to Top of Screen: NA	**Well Diameter (in.): 0.5**	**Total Well Depth: 16.22 FT TOC**	**Purge Method: Pump**	**Time of Purge Initiation: 9:50**
☐ dedicated	**Date/Time of Pump Installation: 8/21/2024 9:22**	**Pump Type: Peristaltic**	**Pump Depth: ~11 FT TOC**	**Water Level after Pump Installation: NA**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (ppm)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
9:58	40	6.42	-119	10.39	927	10.40	NA	412	NA	NA	NA
10:02	75	6.60	-110	10.52	969	14.29	NA	271	NA	NA	NA
10:08	75	6.60	-105	10.13	896	14.49	NA	247	NA	NA	NA
10:12	75	6.61	-101	10.04	926	14.78	NA	194	NA	NA	NA
10:18	75	6.60	-94	10.11	921	15.23	NA	176	NA	NA	NA
10:22	75	6.60	-92	10.05	939	15.38	NA	168	NA	NA	NA
10:28	75	6.60	-91	10.02	928	15.53	NA	171	NA	NA	NA

Other Field Measurements:
P Alk: 0.0 ppm
T Alk: 280 ppm
Fe: 0.62 mg/L

Notes:
NA: Not Analyzed

Remediation Amendment at top of water column. (About 2 oz.)

Sample taken for Sulfur: OLN-OU3AMEND-SC006

Soft bottom from 12-16.22 FT bgs, pump tubing wouldn't pass 12 FT. Initially, grey-like material was getting stuck in the tubing.

Deviations from SAP:
Unable to gauge water level during sampling due to small well diameter.

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 8/21/2024	Time: 10:30	Water Level: NA	pH (S.U.): 6.60	ORP (mV): -92	Diss. Oxygen (ppm): 10.01	Spec. Cond (µS/cm): 938
Temperature: 15.53 °C	TDS (g/L): NA	Turbidity (NTU): 173	Color/Appearance: Oily Amendment Appearance	Odor: Oily Amendment Smell		Final Volume Removed: 1 Gallon

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0050**	**Date: 8/21/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel: LJR	**Well #: RU-15 (OLN-RU015-F009)**	**Static Water Level: 7.92 FT TOC**	
Depth to Top of Screen: NA	**Well Diameter (in.): 0.5**	**Total Well Depth: 16 FT TOC**	**Purge Method: Pump**
Time of Purge Initiation: 8:05			
☐ dedicated	**Date/Time of Pump Installation: 8/21/2024 15:21**	**Pump Type: Peristaltic**	**Pump Depth: ~12 FT TOC**
Water Level after Pump Installation: NA			

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (g/L)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
8:14	120	6.40	146	0.51	316	10.01	NA	150	NA	NA	NA
8:19	120	5.96	140	0.00	316	10.48	NA	62.6	NA	NA	NA
8:24	120	5.94	139	0.00	316	10.56	NA	50.0	NA	NA	NA
8:29	120	5.93	135	0.00	316	10.75	NA	17.2	NA	NA	NA
8:34	120	5.93	131	0.00	314	10.88	NA	16.9	NA	NA	NA
8:39	120	5.93	131	0.00	314	10.99	NA	15.9	NA	NA	NA

Other Field Measurements:
P Alk: 0.0 ppm
T Alk: 80 ppm
Fe: 1.10 mg/L

Notes:
NA: Not Analyzed

Deviations from SAP:
Unable to gauge well while purging due to small diameter of well.

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 8/21/2024	Time:8:42	Water Level: NA	pH (S.U.): 5.93	ORP (mV): 131	Diss. Oxygen (ppm): 0.00	Spec. Cond (µS/cm): 314
Temperature: 10.99 °C	TDS (g/L): NA	Turbidity (NTU): 14.8	Color/Appearance: NA	Odor: None		Final Volume Removed: 1.5 Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0050**	**Date: 8/21/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel: BDT	**Well #: RU-20 (OLN-RU020-F009)**	**Static Water Level: 11.38 FT TOC**	

Depth to Top of Screen: NA	**Well Diameter (in.): 2**	**Total Well Depth: 38.40 FT TOC**	**Purge Method: Pump**	**Time of Purge Initiation: 14:51**
☐ dedicated	**Date/Time of Pump Installation: 8/21/2024 14:45**	**Pump Type: Bladder**	**Pump Depth: ~37 FT TOC**	**Water Level after Pump Installation: 11.42**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (g/L)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
15:02	100	6.63	-203	2.10	2030	16.75	1.33	696	Sheen Present	11.42	0.00
15:07	100	7.03	-260	0.36	2660	14.59	1.70	237	Sheen Present	11.42	0.00
15:12	100	7.08	-267	0.34	2580	14.20	1.65	165	Sheen Present	11.42	0.00
15:17	100	7.07	-274	0.33	2110	14.00	1.35	59.0	Sheen Present	11.42	0.00
15:22	100	7.07	-274	0.30	2050	14.01	1.31	38.9	Sheen Present	11.42	0.00
15:27	100	7.06	-274	0.27	1970	14.03	1.26	33.0	Sheen Present	11.42	0.00
15:37	100	7.07	-284	0.27	1860	13.88	1.19	25.3	Sheen Present	11.42	0.00
15:42	100	7.08	-289	0.26	1830	13.78	1.17	24.9	Sheen Present	11.42	0.00

Other Field Measurements:
P Alk: 0.0 ppm
T Alk: 232 ppm
Fe: 0.38 mg/L

Notes:
NA: Not Analyzed

Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 8/21/2024	Time: 15:47	Water Level: 11.42 FT TOC	pH (S.U.): 7.09	ORP (mV): -290	Diss. Oxygen (ppm): 0.26	Spec. Cond (µS/cm): 1820
Temperature:13.78 °C	TDS (g/L): 1.16	Turbidity (NTU): 23.7	Color/Appearance: Sheen Present	Odor: Amendment Scent	Final Volume Removed: 1.5 Gallons	

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0050**	**Date: 8/21/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel: LJR	**Well #: RU-27A (OLN-RU027A-F009)**	**Static Water Level: 5.62 FT TOC**	
Depth to Top of Screen: NA	**Well Diameter (in.): 2**	**Total Well Depth: 18 FT**	**Purge Method: Pump**
Time of Purge Initiation: 15:35			
☐ dedicated	**Date/Time of Pump Installation: 8/21/2024 15:26**	**Pump Type: Bladder**	**Pump Depth: ~13 FT TOC**
Water Level after Pump Installation: 8.55 FT TOC			

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (g/L)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
15:53	60	6.31	132	2.61	285	18.22	NA	34.0	NA	5.65	2.90
15:58	125	6.19	118	1.54	309	17.26	NA	34.3	NA	5.65	0.00
16:03	125	6.12	122	1.42	390	17.36	NA	32.1	NA	5.65	0.00
16:08	125	6.21	100	1.53	420	17.13	NA	30.9	NA	5.65	0.00
16:13	125	6.18	95	1.43	431	17.01	NA	32.1	NA	5.65	0.00
16:18	125	6.13	91	1.38	434	16.98	NA	33.2	NA	5.65	0.00

Other Field Measurements:
P Alk: 0.0 ppm
T Alk: 360 ppm
Fe: 1.62 mg/L

Notes:
NA: Not Analyzed

Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 8/21/2024	Time:16:20	Water Level: 5.65 FT TOC	pH (S.U.): 6.15	ORP (mV): 90	Diss. Oxygen (ppm): 1.31	Spec. Cond (µS/cm): 433
Temperature: 16.98 °C	TDS (g/L): NA	Turbidity (NTU): 32.2	Color/Appearance: NA	Odor: None		Final Volume Removed: 1.5 Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0050**	**Date: 8/21/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel: BDT	**Well #: RU-28 (OLN-RU028-F009)**	**Static Water Level: 7.55 FT TOC**	

Depth to Top of Screen: NA	**Well Diameter (in.): 2**	**Total Well Depth: 17.90 FT TOC**	**Purge Method: Pump**	**Time of Purge Initiation: 12:17**
☐ dedicated	**Date/Time of Pump Installation: 8/21/2024 12:12**	**Pump Type: Bladder**	**Pump Depth: ~16 FT TOC**	**Water Level after Pump Installation: 7.19 FT TOC**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (g/L)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
12:26	100	4.99	13	1.44	592	17.60	378	1000+	NA	7.98	0.79
12:31	100	4.98	3	0.14	592	17.02	379	1000+	NA	8.16	0.18
12:36	100	4.96	-6	0.02	592	17.39	379	790	NA	8.21	0.05
12:41	100	4.96	-16	0.02	588	17.90	376	569	NA	8.21	0.00
12:46	100	4.98	-33	0.02	593	18.09	380	481	NA	8.21	0.00
12:51	100	4.99	-80	0.02	596	17.88	382	421	NA	8.21	0.00
12:56	100	5.01	-62	0.02	595	17.38	381	403	NA	8.21	0.00
13:01	100	5.01	-59	0.02	592	17.39	379	393	NA	8.21	0.00

Other Field Measurements:
P Alk: 0.0 ppm
T Alk: 40 ppm
Fe: 0.23 mg/L

Notes:
NA: Not Analyzed

Purge Water was white in color

Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 8/21/2024	Time: 13:06	Water Level: 8.21 FT TOC	pH (S.U.): 5.02	ORP (mV): -59	Diss. Oxygen (ppm): 0.02	Spec. Cond (µS/cm): 591
Temperature: 17.39 °C	TDS (g/L): 0.378	Turbidity (NTU): 400	Color/Appearance: NA	Odor: Amendment Scent		Final Volume Removed: 1.0 Gallon

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0050**	**Date: 8/21/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel: BDT	**Well #: 18M (OLN-WW018M-F009)**	**Static Water Level: NA**	

Depth to Top of Screen: NA	**Well Diameter (in.): NA**	**Total Well Depth: NA**	**Purge Method: NA**	**Time of Purge Initiation: 11:02**
☐ dedicated	**Date/Time of Pump Installation: NA**	**Pump Type: Direct Grab**	**Pump Depth: NA**	**Water Level after Pump Installation: NA**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp.	TDS (g/L)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)	Other Field Measurements: P Alk: 0.0 ppm T Alk: 196 ppm Fe: 2.60 mg/L	Notes: NA: Not Analyzed	Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 8/21/2024	Time: 11:04	Water Level: NA	pH (S.U.): 7.27	ORP (mV): 71	Diss. Oxygen (ppm): 3.00	Spec. Cond (µS/cm): 817
Temperature: NA	TDS (g/L): NA	Turbidity (NTU): 0.1	Color/Appearance: NA	Odor: None		Final Volume Removed: 2 Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0050**	**Date: 8/22/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel: LJR	**Well #: RU-19 (OLN-RU019-F009)**	**Static Water Level: 9.03FT TOC**	

Depth to Top of Screen: NA	**Well Diameter (in.): 2**	**Total Well Depth: 20 FT TOC**	**Purge Method: Pump**	**Time of Purge Initiation: 8:05**
☐ dedicated	**Date/Time of Pump Installation: 8/22/2024 8:00**	**Pump Type: Bladder**	**Pump Depth: ~15 FT TOC**	**Water Level after Pump Installation: 8.57**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (g/L)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
8:10	130	4.90	60	3.19	2220	11.38	NA	59.2	NA	9.01	0.44
8:15	130	5.86	-44	0.53	2050	11.78	NA	31.7	NA	9.01	0.00
8:20	130	5.97	-26	0.32	2040	12.03	NA	20.1	NA	9.01	0.00
8:25	130	6.10	-21	0.19	2170	12.23	NA	15.8	NA	9.01	0.00
8:30	130	5.98	-14	0.36	1590	12.28	NA	12.5	NA	9.01	0.00
8:35	130	6.12	-10	0.13	2190	12.17	NA	12.6	NA	9.01	0.00

Other Field Measurements:
P Alk: 0.0 ppm
T Alk: 580 ppm
Fe: 0.98 mg/L

Notes:
NA: Not Analyzed

Yellow petroleum smelling residue on end of water level initially; nothing smiliar was pumped out.

Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 8/22/2024	Time: 8:40	Water Level: 9.01 FT TOC	pH (S.U.): 6.09	ORP (mV): -12	Diss. Oxygen (ppm): 0.26	Spec. Cond (µS/cm): 2100
Temperature: 12.17 °C	TDS (g/L): NA	Turbidity (NTU): 13.1	Color/Appearance: NA	Odor: None		Final Volume Removed: 1.5 Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3					**Project No.: 300-082.0050**			**Date: 8/21/2024**			Civil & Environmental Consultants of New York, Inc.
Personnel: BDT					**Well #: RU-21 (OLN-RU021-F009)**			**Static Water Level: 8.74 FT TOC**			
Depth to Top of Screen: NA			**Well Diameter (in.): 2**			**Total Well Depth: 19.41 FT TOC**		**Purge Method: Pump**			**Time of Purge Initiation: 7:53**
☐ dedicated		**Date/Time of Pump Installation: 8/22/2024 7:46**			**Pump Type: Bladder**			**Pump Depth: ~18 FT TOC**			**Water Level after Pump Installation: 8.57**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (g/L)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
7:56	125	6.32	-99	3.73	1340	14.10	0.856	466	Sheen Present, Fine Black Particles	9.24	0.67
8:01	100	6.37	-103	3.59	1310	14.08	0.839	281	Sheen Present, Fine Black Particles	9.38	0.14
8:06	100	6.37	-97	3.59	1310	13.99	0.838	204	Sheen Present, Fine Black Particles	9.39	0.01
8:11	100	6.37	-92	3.55	1330	13.86	0.848	162	Sheen Present, Fine Black Particles	9.39	0.00
8:16	100	6.37	-88	3.39	1330	13.84	0.853	146	Sheen Present, Fine Black Particles	9.39	0.00
8:21	100	6.37	-87	3.41	1330	13.84	0.853	143	Sheen Present, Fine Black Particles	9.39	0.00
8:26	100	6.37	-86	3.40	1340	13.83	0.858	140	Sheen Present, Fine Black Particles	9.39	0.00

Other Field Measurements:
P Alk: 0.0 ppm
T Alk: 752 ppm
Fe: 1.97 mg/L

Notes:
NA: Not Analyzed

FD002 Collected at 22:00: OLN-FD002-D009

Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 8/21/2024	Time: 8:31	Water Level: 9.39 FT TOC	pH (S.U.): 6.38	ORP (mV): -85	Diss. Oxygen (ppm): 3.38	Spec. Cond (µS/cm): 1330

Temperature: 13.83 °C	TDS (g/L): 0.853	Turbidity (NTU): 141	Color/Appearance: Sheen Present, Fine Black Particles	Odor: Amendment Odor	Final Volume Removed: 1.0 Gallon

APPENDIX F
TWELVE MONTH DATA SUMMARY REPORT

DATA SUMMARY REPORT

FOR THE

OPERABLE UNIT 3 REMEDY IMPLEMENTATION
TWELVE-MONTH PERFORMANCE MONITORING

AT THE PARCEL B PROPERTY
IN THE ALCAS SOURCE AREA
OLEAN WELL FIELD SUPERFUND SITE
OLEAN, NEW YORK

Prepared For:

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CEC NY Project 300-082

APRIL 2025

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1.0 INTRODUCTION

On September 30, 2014, the United States Environmental Protection Agency (U.S. EPA) issued a Record of Decision for Operable Unit 3 (OU3 ROD) in which it documented its selection of remedies for the known source areas at the Olean Well Field Superfund Site (Superfund Site), including a portion of the Superfund Site known as "Parcel B of the Alcas Source Area" (Parcel B).

In February 2016, a Consent Decree (CD) was filed amending and superseding the 1998 CD requiring) requiring Alcas Cutlery Corporation (now known as Cutco Corporation) and Aluminum Company of America (now known as Arconic Corporation) to perform implementation of the remedy for Parcel B that was selected in the OU3 ROD. Pursuant to Sections VI of the 2016 CD and 7.5 of the Statement of Work (SOW), a Remedial Action Work Plan (OU3 RAWP) and supporting deliverables were required to implement the required remedial action for the operable unit. Supporting deliverables for the OU3 RAWP included a Field Sampling Plan (FSP) and Quality Assurance Project Plan (QAPP). On June 8, 2022, the U.S. EPA approved the May 27, 2022, OU3 RAWP with supporting deliverables. The FSP provided a framework for field sampling activities including groundwater performance monitoring required to implement the OU3 remedy. The objective of the QAPP was to address sample analysis and data handling so that data quality is maintained and the work is accurately completed according to the requirements in the OU3 RAWP.

Between August 20 and 22, 2024, groundwater sampling activities were performed at thirteenexisting monitoring wells and three existing sentinel monitoring wells for the purpose of twelve-month post-remedial action performance monitoring. Groundwater samples were submitted for laboratory analysis for the following:

- Volatile Organic Compounds (VOCs) (Tetrachlorethylene [PCE], Trichloroethylene [TCE], cis-1,2 Dichloroethylene [cis-1,2 DCE], trans-1,2 Dichloroethylene [trans-1,2 DCE], and Vinyl Chloride [VC]) – Method 8260D;
- Dissolved Gasses (Ethane, Ethene, and Methane) – Method RSK-175;
- Volatile Fatty Acids (Acetate, Butyrate, and Propionate) – ALS Environmental SOP for Organic Acids in Aqueous Matrices by High Performance Liquid Chromatoraphy;
- Chemical Oxygen Demand (COD) – Method 410.4;

- Sulfate- Method 300.0; and
- Dissolved Metals (Arsenic, Iron, and Manganese) – Method 6010D.

Groundwater samples from the sentinel monitoring wells were submitted for laboratory analysis of VOCs, COD, and dissolved metals. Analytical results were reviewed and validated for usability with respect to the OU3 QAPP.

Analytical results were reviewed and validated for usability with respect to the OU3 QAPP. Data validation included an evaluation of the following:

- Chain of Custody (COC) documentation;
- Holding times;
- Surrogate recoveries;
- Matrix spike/matrix spike dilutions precision and accuracy;
- Laboratory Control Sample (LCS) recoveries;
- Laboratory method blank and trip blank contamination;
- Gas chromatograph/mass spectrometer (GC/MS) instrument performance;
- Sample result verification and identification;
- Internal standard responses;
- Initial and continuing calibrations;
- Quantitation limits; and
- Data completeness.

The following sections of this report provide a narrative discussion of the checklist, including data review and validation procedures and results.

2.0 DATA REVIEW

Aqueous samples were collected from the OU3 wells on August 20 - 22, 2024. The subcontracted analytical laboratory for this project was ALS Environmental (ALS) located in Rochester, New York. Analytical results from these samples were reviewed and validated by ALS and CEC NY.

2.1 LABORATORY DATA - FIRST LEVEL REVIEW

The laboratory analyst generating the analytical data has the prime responsibility for the correctness and completeness of the data. All laboratory data was generated and reduced following protocols specified in the appropriate U.S. EPA SW846 methods or other approved method for the analysis being performed. The review conducted by the laboratory analyst constitutes the first level review. At a minimum, the primary analyst reviews the data package to confirm that:

- Analysis information is correct and complete;
- Appropriate test method was used;
- Analytical results are correct and complete (including calculations);
- Quality control (QC) samples are within established control limits;
- Blanks are within established control limits;
- All corrections on raw data and any generated forms are appropriately documented; and
- Raw data, calculations, and results are correctly transcribed.

This review is documented by the analyst and included with the data package. In the case of work performed by subcontracted laboratories, the first level review was performed by the subcontracted laboratory, ALS.

2.2 LABORATORY DATA - SECOND LEVEL REVIEW

The laboratory conducted a secondary review of the data as an independent and detailed review to confirm that the data set is acceptable for release. The secondary review process confirms that:

- COC information is correct;
- Holding times were met (exceeded holding times, if present, are documented in the case narrative);
- Sample preparation information is correct and complete;
- Analysis information is correct and complete;

- Appropriate SOPs have been followed;
- Analytical results are correct and complete (including calculations);
- QC samples are within established control limits;
- Blanks are within established control limits;
- Special sample preparation and analytical requirements have been met;
- Documentation is complete;
- Corrections on raw data and any generated forms are appropriately documented; and
- All documents have been initialed and dated in accordance with laboratory SOPs.

The secondary review was conducted by experienced laboratory personnel who perform data review as a primary function, are organizationally separate from the operating analysts and have direct access to the laboratory's quality assurance (QA) Manager. Any errors found in this review should trigger appropriate actions resulting in the correction of the data. In the case of work performed by subcontracted laboratories, the data is reviewed and approved by the primary laboratory in a manner similar to a secondary review process. ALS confirmed that the data set is acceptable for release.

2.3 LABORATORY DATA - THIRD LEVEL REVIEW

The third level of review for laboratory data is accomplished by the Laboratory Project Manager during preparation of the final laboratory report. A Case Narrative was prepared for each Sample Delivery Group (SDG) (or equivalent) as documentation of the review. This narrative includes comments as appropriate for the proper interpretation of the data as reported. The signature of the laboratory Project Manager, laboratory director, or designated senior QA staff on each SDG report constitutes acceptance and release of the report from the third level review.

The sampling event included two Sample Delivery Groups: R2408139 and R2408140.

2.3.1 Third Level Review for SDG R2408139

According to the Case Narrative SDG R2408139, all analyses were performed consistent with the quality assurance program of ALS. The Case Narrative included the following details:

- Sample Receipt: Twelve (12) water samples were received for analysis at ALS Environmental on 8/23/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at a minimum in accordance with the analytical method requirements.
- Volatiles by GC/MS: Method 8260D: No significant anomalies were noted with the analysis.
- Volatiles by GC: No significant anomalies were noted with the analysis.
- Semi-volatiles by GC: No significant anomalies were noted with the analysis.
- Dissolved Metals: Method 6010D: When analyzed without dilution, the concentration of one or more elements in one or more samples exceeded the respective single element interference check concentration. Affected samples were diluted to reduce the solution concentration to below the interference check concentration per section 9.9.1 of EPA 6010D.
- General Chemistry: Method 300.0 and Method 410.4: Samples required dilution due to the oily nature of the matrix. The Method Reporting Limit (MRL) was increased due to the presence of oil in the samples.

The signature of ALS staff on the SDG report constitutes acceptance and release of the report from the third level review. A copy of the laboratory report is presented in Attachment A.

2.3.2 Third Level Review for SDG R2408140

According to the Case Narrative SDG R2408140, all analyses were performed consistent with the quality assurance program of ALS. The Case Narrative included the following details:

- Sample Receipt: Fourteen (14) water samples were received for analysis at ALS Environmental on 8/23/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at a minimum in accordance with the analytical method requirements.
- Volatiles by GC/MS: Method 8260D: No significant anomalies were noted with the analysis.
- Volatiles by GC: No significant anomalies were noted with the analysis.
- Semi-volatiles by GC: No significant anomalies were noted with the analysis.
- Dissolved Metals: Method 6010D: No significant anomalies were noted with the analysis.
- General Chemistry: Method 300.0 and Method 410.4: No significant anomalies were noted with the analysis.

The signature of ALS staff on the SDG report constitutes acceptance and release of the report from the third level review. A copy of the laboratory report is presented in Attachment A.

2.4 COMPLIANCE REVIEW

A basic Compliance Review was conducted by CEC NY to confirm completeness and deliverable compliance with method and contractual requirements for each SDG submitted by the laboratory. This review was conducted primarily to confirm contractual compliance by the laboratory and includes the following:

- Comparison of the laboratory work request and chain-of-custody information with the submitted results;
- Verification of holding times for each sample and analytical fraction; and
- Verification of the report delivery within the contractual window.

The data package deliverable format for chemical analytical data includes:

- Title page and table of contents
- Sample control data
  - Chain-of-custody documents
  - Shipping Form
- Case narrative - nonconformance summary report
- Analysis data sheet (for each sample in SDG):
  - Information similar to CLP Form I
  - Method detection/reporting limit
  - Quality control summary
  - Reagent blank summary
  - Duplicate summary including relative percent difference (when specified)
  - MS/MSD summary including percent recovery (when specified)
  - Calibration summary
- Raw QC and standards data
  - Initial calibration data
  - Continuing calibration data (where specified by method)
  - Reagent blank data
  - Matrix spike data
  - Duplicate data
  - Raw sample data

The samples included in the SDG were prepared and analyzed for volatiles by GC/MS using Method SW-846 8260D, dissolved gases using Method RSK-175, volatile fatty acids by ALS internal SOP for organic acids by High Performance Liquid Chromatography (HPLC), dissolved metals using Method SW-846 6010C, sulfate using Method 300.0, and chemical oxygen demand using Method 410.4. The laboratory data were reviewed and qualified with the following flags:

- U – Indicates the compound was analyzed for but not detected;
- J – Analyte detected at levels less than the Method Reporting Limit (MRL) and greater than or equal to the Method Detection Limit (MDL). Concentration within this range indicates an estimated value;
- E – (Organics) Indicates has exceeded the calibration range for the specific analysis; and
- D - Concentration is the result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.

2.4.1 Compliance Review for SDG R2408139

Samples included in SDG R2408139 were collected, properly preserved, shipped under a completed, COC record, and received at ALS within three days of sampling. All holding times were met. All samples were received intact at ALS and within the required temperature range.

The data package received from ALS were paginated and of good quality. The analytical data were 100 percent complete and usable.

2.4.2 Compliance Review for SDG R2408140

Samples included in SDG R2408140 were collected, properly preserved, shipped under a completed, COC record, and received at ALS within three days of sampling. All holding times were met. All samples were received intact at ALS and within the required temperature range.

The data package received from ALS were paginated and of good quality. The analytical data were 100 percent complete and usable.

2.5 FIELD DATA REVIEW

The tables and logs compiled by the field personnel and used as the basis for data interpretation were checked against the original field documentation prior to inclusion in the report. CEC NY was responsible for performing this review activity. A copy of the field documentation for these samples is presented in Attachment B.

3.0 DATA VALIDATION

Data validation is the process of reviewing data and accepting, qualifying, or rejecting it on the basis of criteria using established U.S. EPA guidelines. The data validation uses a narrative version of a data validation checklist adapted from historic CLP data validation practices in conjunction with data summary tables generated from the project database. Validation of analytical data was conducted by CEC NY.

A Stage 2B validation was performed on the subject laboratory report(s), in accordance with the January 2009 *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* as prepared by U.S. EPA. Analytical data were evaluated in general accordance with the January 2022 *Final Quality Assurance Project Plan, Operable Units 2 and 3 at the Alcas Source Area, Olean Well Field Superfund Site, Olean, New York* as prepared by Civil & Environmental Consultants of New York, Inc., the November 2020 *National Functional Guidelines for Organic Superfund Methods Data Review* as prepared by U.S. EPA, and the November 2020 *National Functional Guidelines for Inorganic Superfund Methods Data Review* as prepared by U.S. EPA.

The following laboratory deliverables were evaluated during the review process:

- Chain-of-custody (COC) documentation to assess holding times and verify report completeness;
- Laboratory quality control (QC) sample results, including method blanks, surrogate spikes, internal standards, laboratory control sample/laboratory control sample duplicates (LCS/LCSDs), matrix spike/matrix spike duplicates (MS/MSDs), and laboratory duplicates;
- Instrument calibration and performance checks; and
- Field QC samples to assess trip blank cleanliness and field duplicate precision.

3.1 DATA VALIDATION FINDINGS FOR SDG R2408139

3.1.1 Custody, Preservation, and Completeness

Acceptable: Sample custody was maintained from sample collection to receipt at the laboratory. The samples were received intact and were properly preserved. The reports are complete and contain results for the samples and tests requested on the COC forms, except Sample ID OLN-RU011-F009 which was inadvertently left off the COC by the field team. The lab was informed to add this to SDG R2408139 by the CEC project manager.

3.1.2 Volatile Organic Analyses

The field samples and QC samples were analyzed for the OU3-specific VOCs by Method 8260D at the ALS - Rochester, New York laboratory.

3.1.2.1 Holding Times

Acceptable: The samples were analyzed within the QAPP holding time of 14 days.

3.1.2.2 Instrument Tuning and Mass Calibration

Acceptable: The tuning compound bromofluorobenzene was analyzed at the required frequency by the laboratory. The relative abundance values were within the laboratory limits.

3.1.2.3 Initial Calibration

Acceptable: Initial calibrations were analyzed at the required frequency by the laboratory. The QAPP criterion of relative standard deviation (RSD) values less than or equal to 15 percent was met in all initial calibrations. The relative response factors were greater than the QAPP criterion of the method.

3.1.2.4 Calibration Verification

Acceptable: Calibration verification standards were analyzed at the required frequency by the laboratory. The QAPP criteria of percent difference values less than or equal to 20 percent and

relative response factors greater than the minimum response factors per Table 4 of EPA Method 8260D were met for each calibration.

3.1.2.5 Blank Analyses

Method Blanks

Acceptable: Method blanks were analyzed by the laboratory at the required frequency as described in the QAPP. Target VOCs were not quantified above the MDL.

Trip Blanks

Acceptable: The QAPP requires trip blanks to be collected each day a field sample is collected. One trip blank was associated with the sampling event is included in SDG R2408139. Target VOCs were not quantified above the RL in the trip blank.

3.1.2.6 Surrogate Analyses

Acceptable: Surrogate compounds were added to the samples, blanks, and QC samples as required. The recovery values were within the laboratory control limits.

3.1.2.7 Laboratory Control Sample Analyses

Acceptable: ALS analyzed LCSs at the required frequency. The recovery and relative percent difference (RPD) values were within the laboratory control limits.

3.1.2.8 Matrix Spike/Matrix Spike Duplicate Analyses

Acceptable: MS/MSDs were reported as required. The recovery and RPD values were within the laboratory control limits, except as discussed below. MS/MSD data are presented in the laboratory analytical report for information purposes. The laboratory evaluates system performance based on the LCS control limits.

- TCE: The percent recovery value for the MSD was below the laboratory control limits of 74 to 122 percent for the sample associated with OLN-RU008-F009.

3.1.2.9 Internal Standard Evaluation

Acceptable: Internal standards were added to the samples, blanks, and QC samples as required. The recovery and retention time criteria were met.

3.1.2.10 Laboratory Reporting Limits

Acceptable with Discussion: Laboratory Method Reporting Limits (MRLs) listed in the QAPP were met except in cases where dilution was required. The QAPP notes that MRLs are not adjusted for dilution.

3.1.2.11 Overall Assessment of Data Usability

The usability of the data is based on the QAPP and U.S. EPA guidance documents noted previously. Upon consideration of the information presented here, the data are acceptable for their intended use.

3.1.3 Volatile Fatty Acids Analyses

The field samples and QC samples were analyzed for volatile fatty acids (acetate, propionate, and butyrate) using HPLC at the ALS - Rochester, New York laboratory.

3.1.3.1 Holding Times

Acceptable: The samples were analyzed within the QAPP holding time of 28 days.

3.1.3.2 Initial Calibration Verification

Acceptable: Initial calibration verification standards were analyzed at the required frequency by the laboratory. The QAPP criterion of no more than ±30 percent difference from true values was met in all cases.

3.1.3.3 Calibration Verification

Acceptable: Calibration verification standards were analyzed at the required frequency by the laboratory. The QAPP criterion of no more than ±20 percent difference from true values was met in all cases.

3.1.3.4 Blank Analyses

Acceptable: Method blanks were analyzed by the laboratory at the required frequency as described in the QAPP. Target volatile fatty acids were not quantified above the MDL in any method blank.

3.1.3.5 Laboratory Control Sample Analyses

Acceptable: ALS analyzed LCSs at the required frequency. The recovery and relative percent difference (RPD) values were within the laboratory control limits for all LCSs.

3.1.3.6 Matrix Spike/Matrix Spike Duplicate Analyses

Acceptable: MS/MSDs were reported as required. The recovery and RPD values were within the laboratory control limits. MS/MSD data are presented in the report for information purposes. The laboratory evaluates system performance based on the LCS control limits.

3.1.3.7 Laboratory Reporting Limits

Acceptable with Discussion: Laboratory Method Reporting Limits (MRLs) listed in the QAPP were met except in cases where dilution was required. The QAPP notes that MRLs are not adjusted for dilution.

3.1.3.8 Overall Assessment of Data Usability

The usability of the data is based on the QAPP and U.S. EPA guidance documents noted previously. Upon consideration of the information presented here, the data are acceptable for their intended use.

3.1.4 Dissolved Gases Analyses

The field samples and QC samples were analyzed for dissolved gases (ethane, ethene, and methane) using Method RSK-175 at the ALS - Rochester, New York laboratory.

3.1.4.1 Holding Times

Acceptable: The samples were analyzed within the QAPP holding time of 14 days.

3.1.4.2 Initial Calibration Verification

Acceptable: Initial calibration verification (ICV) standards were analyzed at the required frequency by the laboratory. The QAPP criterion of between 85 and 115 percent recovery were met for each ICV.

3.1.4.3 Continuing Calibration Verification

Acceptable: Continuing calibration verification (CCV) standards were analyzed at the required frequency by the laboratory. The QAPP criterion of 15 percent difference was met for all CCVs.

3.1.4.4 Blank Analyses

Acceptable: Method blanks were analyzed by the laboratory at the required frequency as described in the QAPP. Target dissolved gases were not quantified above the MDL in any method blank.

3.1.4.5 Matrix Spike/Matrix Spike Duplicate Analyses

Acceptable: MS/MSDs were reported as required. The precent recovery and RPD values were within the laboratory control limits in all instances. Matrix Spike and Matrix Spike Duplicate Data are presented in the report for information purposes. The laboratory evaluates system performance based on the LCS control limits.

3.1.4.6 Laboratory Reporting Limits

Acceptable with Discussion: Target reporting limits listed in the QAPP were met.

3.1.4.7 Overall Assessment of Data Usability

The usability of the data is based on the QAPP and U.S. EPA guidance documents noted previously. Upon consideration of the information presented here, the data are acceptable for their intended use.

3.1.5 Metals Analyses

The field samples and QC samples were analyzed for dissolved metals (arsenic, iron, and manganese) by Method 6010D at the ALS - Rochester, New York Laboratory.

3.1.5.1 Holding Times

Acceptable: The samples were analyzed within the QAPP holding time of 180 days from sample collection for metals.

3.1.5.2 Initial Calibration

Acceptable: Initial calibration and detection limit standards were analyzed daily prior to analysis. The QAPP linearity criterion of correlation coefficient greater than or equal to 0.998 was met for all calibrations.

3.1.5.3 Calibration Verifications

Acceptable: Initial calibration verification (ICV) standards and continuing calibration verification (CCV) standards were analyzed at the required frequency. The QAPP criterion of 90 to 110 percent recovery was met in all cases.

3.1.5.4 Blank Analyses

Calibration Blanks

Acceptable: Initial and continuing calibration blanks were analyzed at the required frequency. Target metals were not detected above the MDLs in the calibration blanks.

Method Blanks

Acceptable: Method blanks were analyzed at the required frequency of one per digestion batch. Target metals were not detected above the MDLs in the method blanks.

3.1.5.5 ICP Interference Check

Acceptable: ICP interference check samples are no longer required under Method 6010D. Spectral interference check (SIC) samples were analyzed at the frequency required by the method. The target analytes were not quantified above the lower limit of quantitation (LLOQ), except iron, which was quantified below the concentration in the mixed element SIC solution plus the LLOQ as specified in the method.

3.1.5.6 Laboratory Control Sample Analyses

Acceptable: LCSs were analyzed at the required frequency of one per digestion batch. The recovery values were within the laboratory control limits of 80 to 120 percent. The RPD values were within the laboratory control limits of less than 20 percent.

3.1.5.7 Matrix Spike/Matrix Spike Duplicate Analyses

Acceptable: MS/MSDs were reported as required. The recovery values were within the QAPP criterion of 75 to 125 percent, and the RPD values were within the laboratory control limits.

3.1.5.8 ICP Serial Dilution Analysis

Acceptable: Serial dilutions were performed at a frequency of one per batch. The criterion of percent difference values less than 10 percent for results greater than 50 times the MDL was met for all analyses.

3.1.5.9 Laboratory Reporting Limits

Acceptable with Discussion: Laboratory Method Reporting Limits (MRLs) listed in the QAPP were met except in cases where dilution was required. The QAPP notes that MRLs are not adjusted for dilution.

3.1.5.10 Overall Assessment of Data Usability

The usability of the data is based on the QAPP and U.S. EPA guidance documents noted previously. Upon consideration of the information presented here, the data are acceptable for their intended use.

3.1.6 General Chemistry Analyses

The field samples and QC samples were analyzed for sulfate using Method 300.0 and COD using Method 410.4 at the ALS - Rochester, New York laboratory.

3.1.6.1 Holding Times

Acceptable: The samples were analyzed within the QAPP holding time of 28 days.

3.1.6.2 Initial Calibration

Acceptable: Initial calibrations were analyzed at the required frequency by the laboratory.

3.1.6.3 Calibration Verification

Acceptable: Calibration verification standards were analyzed at the required frequency by the laboratory. The laboratory criterion of 90 to 110 percent recovery was met in all cases.

3.1.6.4 Blank Analyses

Method Blanks

Acceptable: Method blanks were analyzed by the laboratory at the required frequency as described in the QAPP. Target compounds were not quantified above the MRL in any method blanks.

Continuing Calibration Blank

Acceptable: Continuing Calibration Blanks (CCB) were analyzed by the laboratory at the required frequency as described in the QAPP. Target compounds were not quantified above the MRL in any CCB.

3.1.6.5 Laboratory Control Sample Analyses

Acceptable: ALS analyzed LCSs at the required frequency. The recovery and RPD values were within the laboratory control limits for all LCSs.

3.1.6.6 Matrix Spike/Matrix Spike Duplicate Analyses

Acceptable: MS/MSDs were reported as required. The recovery and RPD values were within the laboratory control limits, except as discussed below. MS/MSD data is presented in the laboratory analytical report for information purposes. The laboratory evaluates system performance based on the LCS control limits.

- Sulfate: The percent recovery for the MS/MSD sample was below the laboratory control limits of 90 to 110 percent.

3.1.6.7 Laboratory Reporting Limits

Acceptable with Discussion: Laboratory Method Reporting Limits (MRLs) listed in the QAPP were met except in cases where dilution was required. The QAPP notes that MRLs are not adjusted for dilution.

3.1.6.8 Overall Assessment of Data Usability

The usability of the data is based on the QAPP and U.S. EPA guidance documents noted previously. Upon consideration of the information presented here, the data are acceptable for their intended use.

3.2 DATA VALIDATION FINDINGS FOR SDG R2408140

3.2.1 Custody, Preservation, and Completeness

Acceptable: Sample custody was maintained from sample collection to receipt at the laboratory. The samples were received intact and were properly preserved. The reports are complete and contain results for the samples and tests requested on the COC forms.

3.2.2 Volatile Organic Analyses

The field samples and QC samples were analyzed for the OU3-specific VOCs by Method 8260D at the ALS - Rochester, New York laboratory.

3.2.2.1 Holding Times

Acceptable: The samples were analyzed within the QAPP holding time of 14 days.

3.2.2.2 Instrument Tuning and Mass Calibration

Acceptable: The tuning compound bromofluorobenzene was analyzed at the required frequency by the laboratory. The relative abundance values are within the laboratory limits.

3.2.2.3 Initial Calibration

Acceptable: Initial calibrations were analyzed at the required frequency by the laboratory. The QAPP criterion of relative standard deviation (RSD) values less than or equal to 15 percent was met in all initial calibrations. The relative response factors are greater than the QAPP criterion of the method.

3.2.2.4 Calibration Verification

Acceptable: Calibration verification standards were analyzed at the required frequency by the laboratory. The QAPP criteria of percent difference values less than or equal to 20 percent and relative response factors greater than the minimum response factors per Table 4 of EPA Method 8260D were met.

3.2.2.5 Blank Analyses

Method Blanks

Acceptable: Method blanks were analyzed by the laboratory at the required frequency as described in the QAPP. Target VOCs were not quantified above the MDL.

Trip Blanks

Acceptable: The QAPP requires trip blanks to be collected each day a field sample is collected. Two trip blanks associated with the sampling event are included in SDG R2408140. Target VOCs were not quantified above the RL in the trip blanks.

3.2.2.6 Surrogate Analyses

Acceptable: Surrogate compounds were added to the samples, blanks, and QC samples as required. The recovery values were within the laboratory control limits.

3.2.2.7 Laboratory Control Sample Analyses

Acceptable: ALS analyzed LCSs at the required frequency. The recovery and relative percent difference (RPD) values were within the laboratory control limits.

3.2.2.8 Matrix Spike/Matrix Spike Duplicate Analyses

Acceptable: MS/MSDs were submitted and reported as required at a rate of one per twenty field samples. The results of the MS/MSD analyses are discussed in Section 3.1.2.8.

3.2.2.9 Internal Standard Evaluation

Acceptable: Internal standards were added to the samples, blanks, and QC samples as required. The recovery and retention time criteria were met.

3.2.2.10 Laboratory Reporting Limits

Acceptable with Discussion: Laboratory Method Reporting Limits (MRLs) listed in the QAPP were met except in cases where dilution was required. The QAPP notes that MRLs are not adjusted for dilution.

3.2.2.11 Overall Assessment of Data Usability

The usability of the data is based on the QAPP and U.S. EPA guidance documents noted previously. Upon consideration of the information presented here, the data are acceptable for their intended use.

3.2.3 Volatile Fatty Acids Analyses

The field samples and QC samples were analyzed for volatile fatty acids (acetate, propionate, and butyrate) using HPLC at the ALS - Rochester, New York laboratory.

3.2.3.1 Holding Times

Acceptable: The samples were analyzed within the QAPP holding time of 28 days.

3.2.3.2 Initial Calibration Verification

Acceptable: Initial calibration verification standards were analyzed at the required frequency by the laboratory. The QAPP criterion of percent difference values less than or equal to 30 percent were met in all cases.

3.2.3.3 Calibration Verification

Acceptable: Calibration verification standards were analyzed at the required frequency by the laboratory. The QAPP criterion of percent difference values less than or equal to 20 percent was met in all cases.

3.2.3.4 Blank Analyses

Acceptable: Method blanks were analyzed by the laboratory at the required frequency as described in the QAPP. Target volatile fatty acids were not quantified above the MDL in any method blank.

3.2.3.5 Laboratory Control Sample Analyses

Acceptable: ALS analyzed LCSs at the required frequency. The recovery and relative percent difference (RPD) values were within the laboratory control limits for all LCSs.

3.2.3.6 Matrix Spike/Matrix Spike Duplicate Analyses

Acceptable: MS/MSDs were submitted and reported as required at a rate of one per twenty field samples. The results of the MS/MSD analyses are discussed in Section 3.1.3.6.

3.2.3.7 Laboratory Reporting Limits

Acceptable: Target reporting limits listed in the QAPP were met.

3.2.3.8 Overall Assessment of Data Usability

The usability of the data is based on the QAPP and U.S. EPA guidance documents noted previously. Upon consideration of the information presented here, the data are acceptable for their intended use.

3.2.4 Dissolved Gases Analyses

The field samples and QC samples were analyzed for dissolved gases (ethane, ethene, and methane) using Method RSK-175 at the ALS - Rochester, New York laboratory.

3.2.4.1 Holding Times

Acceptable: The samples were analyzed within the QAPP holding time of 14 days.

3.2.4.2 Initial Calibration Verification

Acceptable: Initial calibration verification (ICV) standards were analyzed at the required frequency by the laboratory. The QAPP criterion of 85 to 115 percent recovery was met for each ICV.

3.2.4.3 Continuing Calibration Verification

Acceptable: Continuing calibration verification (CCV) standards were analyzed at the required frequency by the laboratory. The QAPP criterion of 15 percent difference was met for all CCVs.

3.2.4.4 Blank Analyses

Acceptable: Method blanks were analyzed by the laboratory at the required frequency as described in the QAPP. Target dissolved gases were not quantified above the MDL in any method blank.

3.2.4.5 Matrix Spike/Matrix Spike Duplicate Analyses

Acceptable: MS/MSDs were submitted and reported as required at a rate of one per twenty field samples. The results of the MS/MSD analyses are discussed in Section 3.1.4.5

3.2.4.6 Laboratory Reporting Limits

Acceptable with Discussion: Laboratory Method Reporting Limits (MRLs) listed in the QAPP were met except in cases where dilution was required. The QAPP notes that MRLs are not adjusted for dilution.

3.2.4.7 Overall Assessment of Data Usability

The usability of the data is based on the QAPP and U.S. EPA guidance documents noted previously. Upon consideration of the information presented here, the data are acceptable for their intended use.

3.2.5 Metals Analyses

The field samples and QC samples were analyzed for dissolved metals (arsenic, iron, and manganese) by Method 6010D at the ALS - Rochester, New York Laboratory.

3.2.5.1 Holding Times

Acceptable: The samples were analyzed within the QAPP holding time of 180 days from sample collection for metals.

3.2.5.2 Initial Calibration

Acceptable: Initial calibration and detection limit standards were analyzed daily prior to analysis. The QAPP linearity criterion of correlation coefficient greater than or equal to 0.998 was met for all initial calibrations.

3.2.5.3 Calibration Verifications

Acceptable: Initial calibration verification (ICV) standards and continuing calibration verification (CCV) standards were analyzed at the required frequency. The QAPP criterion of 90 to 110 percent recovery was met in all cases.

3.2.5.4 Blank Analyses

Calibration Blanks

Acceptable: Initial and continuing calibration blanks were analyzed at the required frequency. Target metals were not detected above the MDLs in the calibration blanks.

Method Blanks

Acceptable: Method blanks were analyzed at the required frequency of one per digestion batch. Target metals were not detected above the MDLs in the method blanks.

3.2.5.5 ICP Interference Check

Acceptable: ICP interference check samples are no longer required under Method 6010D. Spectral interference check (SIC) samples were analyzed at the frequency required by the method. The

target analytes were not quantified above the lower limit of quantitation (LLOQ), except iron, which was quantified below the concentration in the mixed element SIC solution plus the LLOQ as specified in the method.

3.2.5.6 Laboratory Control Sample Analyses

Acceptable: LCSs were analyzed at the required frequency of one per digestion batch. The recovery values were within the laboratory control limits of 80 to 120 percent. The RPD values were within the laboratory control limits of less than 20 percent.

3.2.5.7 Matrix Spike/Matrix Spike Duplicate Analyses

Acceptable: MS/MSDs were submitted and reported as required at a rate of one per twenty field samples. The results of the MS/MSD analyses are discussed in Section 3.1.5.7.

3.2.5.8 ICP Serial Dilution Analysis

Acceptable: Serial dilutions were performed at a frequency of one per batch. The criterion of percent difference values less than 10 percent for results greater than 50 times the MDL were met.

3.2.5.9 Laboratory Reporting Limits

Acceptable: Target reporting limits listed in the QAPP were met.

3.2.5.10 Overall Assessment of Data Usability

The usability of the data is based on the QAPP and U.S. EPA guidance documents noted previously. Upon consideration of the information presented here, the data are acceptable for their intended use.

3.2.6 General Chemistry Analyses

The field samples and QC samples were analyzed for sulfate using Method 300.0 and COD using Method 410.4 at the ALS - Rochester, New York laboratory.

3.2.6.1 Holding Times

Acceptable: The samples were analyzed within the QAPP holding time of 28 days.

3.2.6.2 Initial Calibration

Acceptable: Initial calibrations were analyzed at the required frequency by the laboratory.

3.2.6.3 Calibration Verification

Acceptable: Calibration verification standards were analyzed at the required frequency by the laboratory. The laboratory criterion of 90 to 110 percent recovery was met in all cases.

3.2.6.4 Blank Analyses

Method Blanks

Acceptable: Method blanks were analyzed by the laboratory at the required frequency as described in the QAPP. Target compounds were not quantified above the MRL in any method blanks.

Continuing Calibration Blank

Acceptable: Continuing Calibration Blanks (CCB) were analyzed by the laboratory at the required frequency as described in the QAPP. Target compounds were not quantified above the MRL in any CCB.

3.2.6.5 Laboratory Control Sample Analyses

Acceptable: ALS analyzed LCSs at the required frequency. The recovery and RPD values were within the laboratory control limits for all LCSs.

3.2.6.6 Matrix Spike/Matrix Spike Duplicate Analyses

Acceptable: MS/MSDs were reported as required. The recovery and RPD values are within the laboratory control limits, except as discussed below. MS/MSD data is presented for information purposes. The laboratory evaluates system performance based on the LCS.

3.2.6.7 Laboratory Reporting Limits

Acceptable with Discussion: Laboratory Method Reporting Limits (MRLs) listed in the QAPP were met except in cases where dilution was required. The QAPP notes that MRLs are not adjusted for dilution.

3.2.6.8 Overall Assessment of Data Usability

The usability of the data is based on the QAPP and U.S. EPA guidance documents noted previously. Upon consideration of the information presented here, the data are acceptable for their intended use.

4.0 DATA USABILITY

The following data quality indicators were evaluated to determine the usability of the analytical results: precision, accuracy, representativeness, completeness, and comparability. These data quality indicators are applicable to both field and laboratory procedures. Each of the data quality indicators are discussed briefly in the following subsections.

4.1 PRECISION

Precision is a measure of the reproducibility of analyses under a given set of conditions (i.e., the degree to which two or more measurements are in agreement). Precision evaluates how far different individual reported values are from the average or mean. Precision is thus a measure of the magnitude of random error and is expressed as the relative percent difference (RPD). The lower the RPD value is, the more precise (i.e., reproducible) the data.

Precision is evaluated using the RPD, which is determined according to the following equation:

$$RPD = \frac{|Value\ 1 - Value\ 2|}{Arithmetic\ Mean\ of\ Value\ 1\ and\ 2}\ x\ 100$$

This equation above is appropriate when the analytical results are greater than 5 times the reporting limit (RL). Acceptable precision for field duplicates in groundwater is typically RPD < 25-percent. For results that are near the limit of quantitation, acceptable precision is achieved when the absolute value of the difference between Value 1 and Value 2 is within 2 times the RL. For results that are reported between the RL and the method detection limit (MDL), precision is considered poor by definition (i.e., the results are considered qualitatively acceptable in that a constituent can be identified but are quantitatively suspect since the concentration cannot be accurately quantified). For this reason, results between the RL and MDL are flagged with the qualifier "J," indicating they are estimated.

Precision for groundwater samples was evaluated using the analytical results for sample for two (2) samples and respective duplicate samples. The precision determination for each duplicate sample is discussed below.

4.1.1 Precision for Duplicate Sample OLN-FD001-D009

Duplicate sample OLN-FD001-D009 is associated with sample OLN-RU016-F009. Sample results and calculated RPD values are summarized in Table 1.

Of the parameters analyzed, the following constituents had an estimated concentration with results between the MDL and the RL (or J-flagged): trans-1,2-DCE and dissolved arsenic. The precision of these constituents is considered poor by definition, and the analytical results are not considered precise.

The following constituents had a quantifiable concentration that met the precision criteria of an RPD < 25-percent: cis-1,2-DCE, methane, dissolved iron, dissolved manganese, and COD. TCE, VC, acetic acid, and sulfate had quantifiable concentrations that met the precision criteria of the absolute difference being within two times the RL. Therefore, these analytical results are considered precise.

4.1.2 Precision for Duplicate Sample OLN-FD002-D009

Duplicate sample OLN-FD002-D009 is associated with sample OLN-RU021-F009. Sample results and calculated RPD values are summarized in Table 1.

The following constituents had quantifiable concentrations that met the precision criteria of an RPD <25-percent: cis-1,2-DCE, VC, methane, acetic acid, dissolved arsenic, dissolved iron, dissolved manganese, sulfate, and COD. The following constituents had quantifiable concentrations that met the precision criteria of the absolute difference being within two times the RL: PCE, TCE, trans-1,2-DCE, and propionic acid. Therefore, these analytical results are considered precise.

4.2 ACCURACY

Accuracy is a measure of the bias that exists in a measurement system (i.e., the degree of agreement between an observed value and a reference or true value). Accuracy measures the average or systematic error of a measurement method or sampling method. Accuracy in the field is determined through the collection of blanks and review of the results for evidence of sample contamination stemming from field activities or sample transport.

Three trip blanks, three field blanks, and one equipment blank were analyzed as part of this Project. Trip blank, field blank, and equipment blank analytical results are summarized in Table 2.

None of the analytes were quantified or estimated in the trip blanks, field blank OLN-FB002-B009, or field blank OLN-BF003-B009. COD was quantified in the equipment blank OLN-EB001-E009 at concentration of 5.6 mg/L and in field blank OLN-FB001-B009 at a concentration of 5.3 mg/L. COD was quantified in fourteen of sixteen field samples between 6.0 and 5,590 mg/L. The concentrations reported in these field samples are greater than the RL and no qualification is required. COD was not quantified above the RL in field samples OLN-RU009-F009 and OLN-WW18M-F009 and no further qualification is required.

4.3 REPRESENTATIVENESS

Representativeness expresses the degree to which data accurately and precisely represent the environmental condition. Representativeness is accomplished by maintaining sample integrity with appropriate preservation and meeting technical holding times and by collecting a statistically significant number of samples. Field representativeness is dependent upon the proper design of the sampling program and is satisfied by following proper sampling techniques.

Field work was conducted in accordance with the January 2022, *Final Field Sampling Plan Operable Units 2 and 3 at the Alcas Source Area, Olean Well Field Superfund Site, Olean, New York* (FSP) as prepared by Civil & Environmental Consultants of New York, Inc. Samples were collected using laboratory provided containers, preserved in a cooler on ice, and were immediately

delivered to the laboratory within specified hold times. All samples were analyzed within the method specified holding time. The samples were collected using consistent and appropriate sampling techniques. Based on the above, the analytical results are considered to be representative.

4.4 COMPLETENESS

Completeness is the measurement of the amount of valid data obtained from a measurement system compared to the amount that was expected to be obtained under "normal" conditions. Completeness establishes whether a sufficient number of valid measurements were obtained. The closer this value is to 100, the more complete the measurement process. Data rejected, whether due to sampling design error, measurement error, or bias or sample matrix interferences, are considered invalid measurements. The following formula was used to estimate completeness:

$$Percent\ Completeness = \frac{V}{T}\ x\ 100$$

Where:

V = number of measurements judged valid

T = total number of measurements

The field completeness objective for this project is greater than 90%.

All proposed sampling points were collected. No data were rejected due to sampling design error, measurement error, or bias or sample matrix interferences. Since all sixteen (16) samples were collected and no data was considered invalid, the dataset is considered to be 100% complete, which meets the field completeness objective.

4.5 COMPARABILITY

Comparability expresses the confidence with which one set of data can be compared to another. It is a qualitative measurement to ensure sampling and analytical procedures are consistent within and between data sets, such as split sampling or monitoring. Analytical data is comparable when

similar sampling, analytical methods, and reporting limits are consistently used for assessments of water quality. Comparability was controlled by requiring the use of specific nationally recognized analytical methods and requiring consistent method performance criteria.

Sampling was conducted in accordance with the FSP. The sampling event followed sampling procedures employed previously and utilized the same laboratory for analysis via consistent analytical methods. Because of this, the sampling procedures between sample locations and across different sampling events were consistent. Thus, the data sets discussed above are considered comparable.

5.0 SUMMARY

CEC NY completed a data review of the aqueous samples data packages prepared by ALS. Based on the data review and validation evaluation, the data were considered to be sufficiently compliant and acceptable in accordance with validation protocols. The quality assurance objectives for data included considerations for precision, accuracy, representativeness, completeness and comparability. The data were 100 percent complete with all data considered usable. The specific samples, the analyses performed, and a usability summary are presented in Table 3.

TABLES

TABLE 1 (Page 1 of 2)
REPLICATE GROUNDWATER ANALYTICAL RESULTS
OPERABLE UNIT 3 IN THE ALCAS SOURCE AREA
OLEAN WELL FIELD SUPERFUND SITE
OLEAN, NEW YORK

OPERABLE UNIT 3 OLEAN WELL FIELD SUPERFUND SITE OLEAN, NEW YORK DATA SUMMARY REPORT TWELVE MONTH PERFORMANCE MONITORING Validated Data		SAMPLE ID:	OLN-RU016-F009	OLN-FD001-D009 (Field Duplicate)	Estimated Value - Precision Poor By Definition	Precision Evaluation Using RPD or RL	Absolute Value Difference	Meets Precision Criteria Using 2X RL	RPD	Meets Precision Criteria Using RPD
		LAB ID:	-003	-004						
		SOURCE:	ALS	ALS						
		SDG:	R2408139	R2408139						
		MATRIX:	Water	Water						
		SAMPLED:	8/20/2024	8/20/2024						
		ANALYZED:	8/31/2024	8/31/2024						
		DILUTION FACTOR:	1	1						
CAS NO.	CONSTITUENT	UNITS								
127-18-4	Tetrachloroethene	mg/l	<0.001	<0.001		--	--	--	--	--
79-01-6	Trichloroethene	mg/l	**0.0049**	**0.0046**		RL	0.0003	YES	--	--
156-59-2	cis-1,2-Dichloroethene	mg/l	**0.027**	**0.025**		RPD	--	--	7.69	YES
156-60-5	trans-1,2-Dichloroethene	mg/l	**0.00062 J**	**0.00065 J**	YES	--	--	--	--	--
75-01-4	Vinyl chloride	mg/l	**0.0016**	**0.0017**		RL	0.0001	Yes	--	--
74-84-0	Ethane	mg/l	<0.0052	<0.0052		--	--	--	--	--
74-85-1	Ethene	mg/l	<0.005	<0.005		--	--	--	--	--
74-82-8	Methane	mg/l	**0.42**	**0.41**		RPD	--	--	2.41	YES
64-19-7	Acetic Acid	mg/l	**2.1**	**2.2**		RL	0.1	YES	--	--
107-92-6	Butanoic Acid (Butyric Acid)	mg/l	<10	<10		--	--	--	--	--
79-09-4	Propionic Acid	mg/l	<2	<2		--	--	--	--	--
7440-38-2	Arsenic, Dissolved	mg/l	**0.019 J**	<0.030	Yes	--	--	--	--	--
7439-89-6	Iron, Dissolved	mg/l	**8.55**	**8.22**		RPD	--	--	3.94	YES
7439-96-5	Manganese, Dissolved	mg/l	**19.8**	**18.8**		RPD	--	--	5.18	YES
14808-79-8	Sulfate	mg/l	**6.2**	**6.1**		RL	0.1	Yes	--	--
NA	Chemical Oxygen Demand	mg/l	**181**	**190**		RPD	--	--	4.85	YES

Qualifiers:

J - Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the Method Reporting Limit (MRL) and the Method Detection Limit (MDL).

Notes:

Bolded values were detected at concentrations above the Method Detection Limit (MDL).

RL - Reporting Limit

RPD - Relative Percent Difference

mg/l - Milligrams per liter

TABLE 1 (Page 1 of 2)
REPLICATE GROUNDWATER ANALYTICAL RESULTS
OPERABLE UNIT 3 IN THE ALCAS SOURCE AREA
OLEAN WELL FIELD SUPERFUND SITE
OLEAN, NEW YORK

OPERABLE UNIT 3 OLEAN WELL FIELD SUPERFUND SITE OLEAN, NEW YORK DATA SUMMARY REPORT TWELVE MONTH PERFORMANCE MONITORING		SAMPLE ID:	OLN-RU021-F009	OLN-FD002-D009 (Field Duplicate)	Estimated Value - Precision Poor By Definition	Precision Evaluation Using RPD or RL	Absolute Value Difference	Meets Precision Criteria Using 2X RL	RPD	Meets Precision Criteria Using RPD
		LAB ID:	-012	-013						
		SOURCE:	ALS	ALS						
		SDG:	R2408140	R2408140						
		MATRIX:	Water	Water						
Validated Data		SAMPLED:	8/22/2024	8/22/2024						
		ANALYZED:	8/30/2024	8/31/2024						
		DILUTION FACTOR:	1	1						
CAS NO.	CONSTITUENT	UNITS								
127-18-4	Tetrachloroethene	mg/l	**0.0031**	**0.0034**		RL	0.0003	YES	--	--
79-01-6	Trichloroethene	mg/l	**0.0025**	**0.0030**		RL	0.0005	YES	--	--
156-59-2	cis-1,2-Dichloroethene	mg/l	**0.02**	**0.02**		RPD	--	--	0.00	YES
156-60-5	trans-1,2-Dichloroethene	mg/l	**0.0011**	**0.0011**		RL	0.0	YES	--	--
75-01-4	Vinyl chloride	mg/l	**0.011**	**0.012**		RPD	--	--	8.70	YES
74-84-0	Ethane	mg/l	<0.1	<0.1		--	--	--	--	--
74-85-1	Ethene	mg/l	<0.1	<0.1		--	--	--	--	--
74-82-8	Methane	mg/l	**8.4**	**6.6**		RPD	--	--	24	YES
64-19-7	Acetic Acid	mg/l	**7.1**	**7.4**		RPD	--	--	4.14	YES
107-92-6	Butanoic Acid (Butyric Acid)	mg/l	<10	<10		--	--	--	--	--
79-09-4	Propionic Acid	mg/l	**10**	**9.3**		RL	0.7	YES	--	--
7440-38-2	Arsenic, Dissolved	mg/l	**0.100**	**0.102**		RPD	--	--	1.98	YES
7439-89-6	Iron, Dissolved	mg/l	**59.3**	**60.3**		RPD	--	--	1.67	YES
7439-96-5	Manganese, Dissolved	mg/l	**4.19**	**4.24**		RPD	--	--	1.19	YES
14808-79-8	Sulfate	mg/l	**60.8**	**62.3**		RPD	--	--	2.44	YES
NA	Chemical Oxygen Demand	mg/l	**272**	**284**		RPD	--	--	4.32	YES

Notes:

Bolded values were detected at concentrations above the Method Detection Limit (MDL).

RL - Reporting Limit

RPD - Relative Percent Difference

mg/l - Milligrams per liter

TABLE 2
SUMMARY OF BLANK ANALYTICAL RESULTS
OPERABLE UNIT 2 IN THE ALCAS SOURCE AREA
OLEAN WELL FIELD SUPERFUND SITE
OLEAN, NEW YORK

OPERABLE UNIT 3 OLEAN WELL FIELD SUPERFUND SITE OLEAN, NEW YORK DATA SUMMARY REPORT TWELVE MONTH PERFORMANCE MONITORING		SAMPLE ID:	OLN-EB001-E009 (Equipment Blank)	OLN-FB001-B009 (Field Blank)	OLN-FB002-B009 (Field Blank)	OLN-FB003-B009 (Field Blank)	OLN-TB001-T009 (Trip Blank)	OLN-TB002-T009 (Trip Blank)	OLN-TB003-T009 (Trip Blank)
		LAB ID:	007	004	008	013	001	011	014
		SOURCE:	ALS	ALS	ALS	ALS	ALS	ALS	ALS
		SDG:	R2408140	R2408140	R2408140	R2408139	R2408140	R2408139	R2408140
		MATRIX:	Water	Water	Water	Water	Water	Water	Water
Validated Data		SAMPLED:	8/21/2024	8/20/2024	8/21/2024	8/21/2024	8/20/2024	8/21/2024	8/22/2024
		ANALYZED:	8/30/2024	8/30/2024	8/30/2024	8/31/2024	8/30/2024	8/31/2024	8/30/2024
		DILUTION FACTOR:	1	1	1	1	1	1	1
CAS NO.	CONSTITUENT	UNITS							
127-18-4	Tetrachloroethene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
79-01-6	Trichloroethene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
156-59-2	cis-1,2-Dichloroethene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
156-60-5	trans-1,2-Dichloroethene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
75-01-4	Vinyl chloride	mg/l							
74-84-0	Ethane	mg/l	< 0.0052	< 0.0052	< 0.0052	< 0.0052	NA	NA	NA
74-85-1	Ethene	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	NA	NA	NA
74-82-8	Methane	mg/l	< 0.0052	< 0.0052	< 0.0052	< 0.0052	NA	NA	NA
64-19-7	Acetic Acid	mg/l	< 1	< 1	< 1	< 1	NA	NA	NA
107-92-6	Butanoic Acid (Butyric Acid)	mg/l	< 10	< 10	< 10	< 10	NA	NA	NA
79-09-4	Propionic Acid	mg/l	< 2	< 2	< 2	< 2	NA	NA	NA
7440-38-2	Arsenic, Dissolved	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	NA	NA	NA
7439-89-6	Iron, Dissolved	mg/l	< 0.1	< 0.1	< 0.1	< 0.1	NA	NA	NA
7439-96-5	Manganese, Dissolved	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	NA	NA	NA
14808-79-8	Sulfate	mg/l	< 2	< 2	< 2	< 2	NA	NA	NA
NA	Chemical Oxygen Demand	mg/l	**5.6**	**5.3**	< 5	< 5	NA	NA	NA

Notes:

Bolded values were detected at concentrations above the Method Detection Limit (MDL).

mg/l - Milligrams per liter.

NA - Not analyzed.

TABLE 3
SUMMARY OF SAMPLE ANALYSES AND USABILITY
OPERABLE UNIT 2 IN THE ALCAS SOURCE AREA
OLEAN WELL FIELD SUPERFUND SITE
OLEAN, NEW YORK

OPERABLE UNIT 3 **OLEAN WELL FIELD SUPERFUND SITE** **OLEAN, NEW YORK** **DATA SUMMARY REPORT** **TWELVE MONTH PERFORMANCE MONITORING**								
Validated Data								
Sample ID	**Matrix**	**Sample Date**	**8260C**	**RSK175**	**VFAs**	**6010C/7470A**	**300.0**	**410.4**
OLN-RU008-F009	Water	8/21/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-RU009-F009	Water	8/20/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-RU010-F009	Water	8/21/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-RU011-F009	Water	8/20/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-RU015-F009	Water	8/21/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-RU016-F009	Water	8/16/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-RU019-F009	Water	8/22/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-RU020-F009	Water	8/21/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-RU021-F009	Water	8/22/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-RU27A-F009	Water	8/21/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-RU028-F009	Water	8/21/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-UA002-F009	Water	8/20/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-UA003-F009	Water	8/20/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-CW013-F009	Water	8/21/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-CW13A-F009	Water	8/21/2024	Usable	Usable	Usable	Usable	Usable	Usable
OLN-WW18M-F009	Water	8/21/2024	Usable	Usable	Usable	Usable	Usable	Usable
		Total Samples	16	16	16	16	16	16

Notes:

ATTACHMENT A
LABORATORY ANALYTICAL REPORT

September 24, 2024 Service Request No:R2408139

Michael Worden
Civil & Environmental Consultants, Incorporated (CEC)
2704 Cherokee Farm Way
Suite 101
Knoxville, TN 37920

Laboratory Results for: Olean OU3 12-Month Sampling

Dear Michael,

Enclosed are the results of the sample(s) submitted to our laboratory August 23, 2024
For your reference, these analyses have been assigned our service request number **R2408139.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

CC: Laura Campbell

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PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental

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ALS Environmental—Rochester Laboratory
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ALS Environmental

Client: Civil & Environmental Consultants, Incorporated (CEC)
Service Request: R2408139
Project: Olean OU3 12-Month Sampling
Date Received: 08/23/2024
Sample Matrix: Water

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.
Manual Integrations may have been used in the quantitation of the results in this report. Manual Integrations are readily identified in the raw data on the Quantitation Reports (Organics) by the automatic placement of an “m” next to the sample result. For Ion Chromatography, the manual integrations are identified by the automatic placement of “manipulated” or "manually integrated" in the upper left corner of the chromatogram (Hexavalent Chromium) or “M” by the result in the “Type” column (anions). The reason for the manual integration is noted on the “after” chromatogram, which is found with the original chromatogram and quantitation report. All integrations follow the lab SOP ADM-INT “Manual Integration.”

Sample Receipt:

Twelve water samples were received for analysis at ALS Environmental on 08/23/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivoa GC:

No significant anomalies were noted with this analysis.

Metals:

When analyzed without dilution, the concentration of one or more elements in one or more samples exceeded the associated single element interference check concentration. As per section 9.9.1 of EPA 6010D, affected samples were diluted to reduce the solution concentration of the high concentration element below the interference check concentration, whether or not the high concentration element was an analyte of interest. The dilution has increased the reporting limits accordingly.

General Chemistry:

Method 300.0, R2408136-006: The Method Reporting Limit (MRL) was elevated due to presence of oil in the sample.
Method 300.0, R2408139-006: Sample(s) required dilution due to the oily nature of the matrix. The reporting limits are adjusted to reflect the dilution.

Volatiles by GC:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

No significant anomalies were noted with this analysis.

Approved by _____ Date 09/24/2024

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408139
Project: Olean OU3 12-Month Sampling/300-082

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R2408139-001	OLN-RU011-F009	8/20/2024	1808
R2408139-002	OLN-RU009-F009	8/20/2024	1417
R2408139-003	OLN-RU-016-F009	8/20/2024	1605
R2408139-004	OLN-FD001-D009	8/20/2024	2000
R2408139-005	OLN-RU015-F009	8/21/2024	0842
R2408139-006	OLN-OU3AMEND-SC006	8/21/2024	0922
R2408139-007	OLN-RU010-F009	8/21/2024	1030
R2408139-008	OLN-RU008-F009	8/21/2024	1255
R2408139-010	OLN-RU27A-F009	8/21/2024	1620
R2408139-011	OLN-TB002-T009	8/21/2024	
R2408139-012	OLN-RU019-F009	8/22/2024	0840
R2408139-013	OLN-FB003-B009	8/22/2024	1001

Civil & Environmental Consultants, Inc.

Chain of Custody Record:

Project Name:	Olean OU3 12-Month Sampling		
Project Number:	300-082	Project Location:	Olean, NY
Project Manager:	Laura Campbell		
Field Personnel:	BDT, LJR		
Contact Information:	LCampbell@CECinc.com		
CEC Office:	PGH	Number of Coolers in Shipment:	4

Data Delivery:
___ CD (EDD and Report) ___ Paper Report
_X_ Email (EDD and Report) ___ Preliminary Results (ASAP)
Email Address: See Above

Turn-Around Time:
_X_ Standard ___ 7 day ___ 72 hr ___ 48 hr ___ 24 hr

Requested Sample Analyses

Page 1 of 2

Matrix Key: A - Air; W - Water; S - Soil; D - Sediment; P - Wipe; O - Other

Preservative Key: 1 - HCl; 2 - HNO_3; 3 - H_2SO_4; 4 - NaOH; 5 - Na_2S2O_3; 6 - $NaHSO_4$; 7 - Other; 8 - 4°C; 9 - 5035

Date	Time	Sample ID	Matrix	Preservative	Number of Containers	8260C - VOCs	RSk175 - Dissolved Gases	410.4 - COD	300.0 - Sulfate	VFAs - Volatile Fatty Acids	6010 - Dissolved Metals: As, Fe, Mn	Special Instructions/ Sample Conditions/ Comments
08-20-24	1417	OLN-RV009-F009	W		12	X	X	X	X	X	X	
	1605	OLN-RV016-F009	W		12	X	X	X	X	X	X	
↓	2000	OLN-FD001-D009	W		12	X	X	X	X	X	X	
08-21-24	0842	OLN-RV015-F009	W		12	X	X	X	X	X	X	
	0922	OLN-OU3AMEND-SC006	O		1				X			
	1030	OLN-RV010-F009	W		12	X	X	X	X	X	X	
	1255	OLN-RV008-F009	W		12	X	X	X	X	X	X	
	1255	OLN-MS001-MD09	W		24	X	X	X	X	X	X	@ OLN-RV008-F009
	1620	OLN-RV27A-F009	W		12	X	X	X	X	X	X	
↓	—	OLN-TB002-T009	W		2	X						

Relinquished By: Lauren Rockwell	Date: 08/22/24	Time: 1130	Received By:	Date: 8/22/24	Time: 1130
Relinquished by:	Date: 8/22/24	Time: 1500	Received By:	Date: 8/23/24	Time: 0930

Custody Seals Intact? ___ Yes ___ No | Jars Intact? ___ Yes ___ No

Cooler Temperature Upon Receipt? ___ °C | Ice Present? ___ Yes ___ No

General Comments/Remarks: All dissolved metals were field filtered

Corporate Office: Pittsburgh, 700 Cherrington Parkway, Moon Township, PA 15108, (800) 365-2324, www.cecinc.com

Albany (888)243-6439, Athens (877)389-1852, Austin (855)365-2324, Boston (866)312-2024, Bridgeport (855)488-9539, Charlotte (855)859-9932, Chicago (877)963-6026, Cincinnati (800)759-5614, Cleveland (800)365-2324, Columbus (888)598-6808, Greenville (855)574-4331, Houston (800)365-2324, Indianapolis (877)746-0749, Knoxville (865)977-9997, Monroeville (800)899-3610, Nashville (800)763-2326, Philadelphia (888)267-7891, Phoenix (877)231-2324, Sevierville (865)774-7771, St. Louis (866)250-3679, Toledo (855

R2408139 5

Civil & Environmental Consultants, Incorporated (
Olean OU3 12-Month Sampling

Civil & Environmental Consultants, Inc.

Chain of Custody Record

Project Name:	Olean OU3 12-Month Sampling		
Project Number:	300-082	Project Location:	Olean, NY
Project Manager:	Laura Campbell		
Field Personnel:	BDT, LJR		
Contact Information:	LCampbell@CECinc com		
CEC Office:	PGH	Number of Coolers in Shipment:	4

Data Delivery:
___ CD (EDD and Report) ___ Paper Report
X Email (EDD and Report) ___ Preliminary Results (ASAP)
Email Address: See Above

Turn-Around Time:
X Standard ___ 7 day ___ 72 hr ___ 48 hr ___ 24 hr

Requested Sample Analyses

Page 2 of 2

Matrix Key: A - Air; W - Water; S - Soil; D - Sediment; P - Wipe; O - Other

Preservative Key: 1 - HCl; 2 - HNO_3; 3 - H_2SO_4; 4 - NaOH; 5 - Na_2S2O_3; 6 - $NaHSO_4$; 7 - Other; 8 - 4°C; 9 - 5035

Date	Time	Sample ID	Matrix	Preservative	Number of Containers	8260C - VOCs	RSk175 - Dissolved Gases	410.4 - COD	300.0 - Sulfate	VFAs - Volatile Fatty Acids	6010 - Dissolved Metals As, Fe, Mn	Special Instructions/ Sample Conditions/ Comments
08/22/24	0840	OLN-RU019-F009	W		12	X	X	X	X	X	X	
08/22/24	1001	OLN-FB003-B009	W		12	X	X	X	X	X	X	
08/20/24	18008	OLN-RU011-F009	W		12	x	x	x	x	x	x	LDC 8/262024

Relinquished By: Lauren Rockwell	Date: 08/22/24	Time: 1130	Received By:	Date: 8/22/24	Time: 1130
Relinquished by:	Date: 8/22/24	Time: 1500	Received By:	Date:	Time:

Custody Seals Intact? ___ Yes ___ No
Jars Intact? ___ Yes ___ No
Cooler Temperature Upon Receipt? ___ °C
Ice Present? ___ Yes ___ No

General Comments/Remarks: Dissolved Metals were field filtered

Corporate Office: Pittsburgh
700 Cherrington Parkway
Moon Township, PA 15108
(800) 365-2324
www cecinc com

Albany (888)243-6439
Athens (877)389-1852
Austin (855)365-2324
Boston (866)312-2024
Bridgeport (855)488-9539
Charlotte (855)859-9932
Chicago (877)963-6026
Cincinnati (800)759-5614
Cleveland (800)365-2324
Columbus (888)598-6808
Greenville (855)574-4331
Houston (800)365-2324
Indianapolis (877)746-0749
Knoxville (865)977-9997
Monroeville (800)899-3610
Nashville (800)763-2326
Philadelphia (888)267-7891
Phoenix (877)231-2324
Sevierville (865)774-7771
St. Louis (866)250-3679
Toledo (855)274-2324

R2408139 5
Civil & Environmental Consultants, Incorporated (
Olean OU3 12-Month Sampling

Cooler Receipt and Preservation Check Form

Project/Client Civil Folder Number

Cooler received on 8/23/24 by:

COURIER: ALS UPS (FEDEX) VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	(Y)	N
2	**Custody papers** properly completed (ink, signed)?	(Y)	N
3	Did all bottles arrive in good **condition** (unbroken)?	(Y)	N
4	Circle: **Wet Ice Dry Ice Gel packs** present?	(Y)	N

5a	Did **VOA** vials have sig* **bubbles?**	Y	(N) NA
5b	Sig* bubbles: **Alk?** Y N (NA) **Sulfide?**	Y N	(NA)
6	Where did the bottles originate?	(ALS/ROC)	CLIENT
7	Soil VOA received as: Bulk Encore 5035set		(NA)

8. Temperature Readings Date: 8/23 Time: 0950 ID: (IR#12) IR#11 From: Temp Blank (Sample Bottle)

Temp (°C)	2.6	5.6	0.9	0.3			
Within 0-6°C?	(Y) N	(Y) N	(Y) N	(Y) N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: Cooler by on 8/23 at 1015

5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 8/26/24 Time: 1022 by: SES

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
10. Did all bottle labels and tags agree with custody papers? YES (NO)
11. Were correct containers used for the tests indicated? (YES) NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO (N/A)
13. Were dissolved metals filtered in the field? (YES) NO (N/A) 8/26/24
14. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2	822523	HNO_3	✓		bottle label → 24007671	11/26				
≤2	↓	H_2SO_4	✓							
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-						
		HCl	**	**	24009230	Y27				

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 052724-4EKI, 070824-2ADD, 052024-3AXH

Explain all Discrepancies/ Other Comments:

Run-F09 1st on any CA

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: SES

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

P:\INTRANET\QAQC\Forms Controlled\Cooler Receipt r21.doc 05/17/2024

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations[1]

NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory. To verify NH accredited analytes, go to https://www4.des.state.nh.us/CertifiedLabs/Certified-Method.aspx.

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408139
Project: Olean OU3 12-Month Sampling/300-082

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
Organic Acids	Water	Acetic Acid
Organic Acids	Water	Butanoic Acid (Butyric Acid)
Organic Acids	Water	Propionic Acid

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408139
Project: Olean OU3 12-Month Sampling/300-082

Sample Name: OLN-RU011-F009 **Date Collected:** 08/20/24
Lab Code: R2408139-001 **Date Received:** 08/23/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
6010D	CDISTEFANO	ECASTROVINCI
8260D		FNAEGLER
Hach 8000 (1979)		SDUBE
Organic Acids		AFELSER
RSK 175		FNAEGLER

Sample Name: OLN-RU009-F009 **Date Collected:** 08/20/24
Lab Code: R2408139-002 **Date Received:** 08/23/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
6010D	CDISTEFANO	ECASTROVINCI
8260D		FNAEGLER
Hach 8000 (1979)		SDUBE
Organic Acids		AFELSER
RSK 175		FNAEGLER

Sample Name: OLN-RU-016-F009 **Date Collected:** 08/20/24
Lab Code: R2408139-003 **Date Received:** 08/23/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
6010D	CDISTEFANO	ECASTROVINCI
8260D		FNAEGLER
Hach 8000 (1979)		SDUBE
Organic Acids		AFELSER
RSK 175		FNAEGLER

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408139
Project: Olean OU3 12-Month Sampling/300-082

Sample Name: OLN-FD001-D009 **Date Collected:** 08/20/24
Lab Code: R2408139-004 **Date Received:** 08/23/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
6010D	CDISTEFANO	ECASTROVINCI
8260D		FNAEGLER
Hach 8000 (1979)		SDUBE
Organic Acids		AFELSER
RSK 175		FNAEGLER

Sample Name: OLN-RU015-F009 **Date Collected:** 08/21/24
Lab Code: R2408139-005 **Date Received:** 08/23/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
6010D	CDISTEFANO	ECASTROVINCI
8260D		FNAEGLER
Hach 8000 (1979)		SDUBE
Organic Acids		AFELSER
RSK 175		FNAEGLER

Sample Name: OLN-OU3AMEND-SC006 **Date Collected:** 08/21/24
Lab Code: R2408139-006 **Date Received:** 08/23/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408139
Project: Olean OU3 12-Month Sampling/300-082

Sample Name: OLN-RU010-F009 **Date Collected:** 08/21/24
Lab Code: R2408139-007 **Date Received:** 08/23/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
6010D	CDISTEFANO	ECASTROVINCI
8260D		FNAEGLER
Hach 8000 (1979)		SDUBE
Organic Acids		AFELSER
RSK 175		FNAEGLER

Sample Name: OLN-RU008-F009 **Date Collected:** 08/21/24
Lab Code: R2408139-008 **Date Received:** 08/23/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
6010D	CDISTEFANO	ECASTROVINCI
8260D		FNAEGLER
Hach 8000 (1979)		SDUBE
Organic Acids		AFELSER
RSK 175		FNAEGLER

Sample Name: OLN-RU27A-F009 **Date Collected:** 08/21/24
Lab Code: R2408139-010 **Date Received:** 08/23/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
6010D	CDISTEFANO	ECASTROVINCI
8260D		FNAEGLER
Hach 8000 (1979)		SDUBE
Organic Acids		AFELSER
RSK 175		FNAEGLER

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408139
Project: Olean OU3 12-Month Sampling/300-082

Sample Name: OLN-TB002-T009 **Date Collected:** 08/21/24
Lab Code: R2408139-011 **Date Received:** 08/23/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260D		FNAEGLER

Sample Name: OLN-RU019-F009 **Date Collected:** 08/22/24
Lab Code: R2408139-012 **Date Received:** 08/23/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
6010D	CDISTEFANO	ECASTROVINCI
8260D		FNAEGLER
Hach 8000 (1979)		SDUBE
Organic Acids		AFELSER
RSK 175		FNAEGLER

Sample Name: OLN-RU019-F009 **Date Collected:** 08/22/24
Lab Code: R2408139-012.R01 **Date Received:** 08/23/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260D		FNAEGLER
RSK 175		FNAEGLER

Sample Name: OLN-FB003-B009 **Date Collected:** 08/22/24
Lab Code: R2408139-013 **Date Received:** 08/23/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
6010D	CDISTEFANO	ECASTROVINCI
8260D		FNAEGLER
Hach 8000 (1979)		SDUBE

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082		

Sample Name:	OLN-FB003-B009	**Date Collected:**	08/22/24
Lab Code:	R2408139-013	**Date Received:**	08/23/24
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
Organic Acids		AFELSER
RSK 175		FNAEGLER

PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

INORGANIC

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C or 6010D	3005A/3010A
6020A or 6020B	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-N-2016 Amenable and Residual Cyanide	SM 4500-CN-G and SM 4500-CN-B,C-2016
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C or 6010D	3050B
6020A or 6020B	3050B
6010C or 6010D TCLP (1311) extract	3005A/3010A
6010C or 6010D SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

ORGANIC

Preparation Methods for Organic methods are listed in the header of the Results pages.

Regarding "Bulk/5035A":
For soil/solid samples submitted in soil jars for Volatiles analysis, the prep method is listed as "Bulk/5035A". The lab follows the closed-system EPA 5035A protocols once the sample is transferred to a sealed vial, but collection in bulk in soil jars does not follow the collection protocols listed in EPA 5035A. In accordance with the NYSDOH technical notice of October 2012, all results or reporting limits <200 ug/kg are to be considered estimated due to potential low bias.

Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 18:08
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU011-F009	**Units:**	ug/L
Lab Code:	R2408139-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/30/24 11:35	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	08/30/24 11:35	
Vinyl Chloride	**1.5**	1.0	0.20	1	08/30/24 11:35	
cis-1,2-Dichloroethene	**6.4**	1.0	0.23	1	08/30/24 11:35	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	08/30/24 11:35	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	08/30/24 11:35	
Dibromofluoromethane	102	80 - 116	08/30/24 11:35	
Toluene-d8	103	87 - 121	08/30/24 11:35	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 14:17
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU009-F009	**Units:**	ug/L
Lab Code:	R2408139-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/30/24 11:59	
Trichloroethene (TCE)	**0.46 J**	1.0	0.20	1	08/30/24 11:59	
Vinyl Chloride	1.0 U	1.0	0.20	1	08/30/24 11:59	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	08/30/24 11:59	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	08/30/24 11:59	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	08/30/24 11:59	
Dibromofluoromethane	101	80 - 116	08/30/24 11:59	
Toluene-d8	104	87 - 121	08/30/24 11:59	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 16:05
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU-016-F009	**Units:**	ug/L
Lab Code:	R2408139-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/30/24 12:22	
Trichloroethene (TCE)	**4.9**	1.0	0.20	1	08/30/24 12:22	
Vinyl Chloride	**1.6**	1.0	0.20	1	08/30/24 12:22	
cis-1,2-Dichloroethene	**27**	1.0	0.23	1	08/30/24 12:22	
trans-1,2-Dichloroethene	**0.62 J**	1.0	0.20	1	08/30/24 12:22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	08/30/24 12:22	
Dibromofluoromethane	100	80 - 116	08/30/24 12:22	
Toluene-d8	104	87 - 121	08/30/24 12:22	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 20:00
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FD001-D009	**Units:**	ug/L
Lab Code:	R2408139-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/31/24 15:12	
Trichloroethene (TCE)	**4.6**	1.0	0.20	1	08/31/24 15:12	
Vinyl Chloride	**1.7**	1.0	0.20	1	08/31/24 15:12	
cis-1,2-Dichloroethene	**25**	1.0	0.23	1	08/31/24 15:12	
trans-1,2-Dichloroethene	**0.65 J**	1.0	0.20	1	08/31/24 15:12	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	08/31/24 15:12	
Dibromofluoromethane	102	80 - 116	08/31/24 15:12	
Toluene-d8	105	87 - 121	08/31/24 15:12	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 08:42
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU015-F009	**Units:**	ug/L
Lab Code:	R2408139-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/31/24 14:25	
Trichloroethene (TCE)	**1.4**	1.0	0.20	1	08/31/24 14:25	
Vinyl Chloride	**0.26 J**	1.0	0.20	1	08/31/24 14:25	
cis-1,2-Dichloroethene	**1.2**	1.0	0.23	1	08/31/24 14:25	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	08/31/24 14:25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	08/31/24 14:25	
Dibromofluoromethane	103	80 - 116	08/31/24 14:25	
Toluene-d8	105	87 - 121	08/31/24 14:25	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 10:30
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU010-F009	**Units:**	ug/L
Lab Code:	R2408139-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	**12**	1.0	0.21	1	08/31/24 15:35	
Trichloroethene (TCE)	**22**	1.0	0.20	1	08/31/24 15:35	
Vinyl Chloride	**0.68 J**	1.0	0.20	1	08/31/24 15:35	
cis-1,2-Dichloroethene	**81**	1.0	0.23	1	08/31/24 15:35	
trans-1,2-Dichloroethene	**0.55 J**	1.0	0.20	1	08/31/24 15:35	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	08/31/24 15:35	
Dibromofluoromethane	96	80 - 116	08/31/24 15:35	
Toluene-d8	97	87 - 121	08/31/24 15:35	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 12:55
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU008-F009	**Units:**	ug/L
Lab Code:	R2408139-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	**0.51 J**	1.0	0.21	1	08/31/24 15:59	
Trichloroethene (TCE)	**200**	1.0	0.20	1	08/31/24 15:59	
Vinyl Chloride	**0.55 J**	1.0	0.20	1	08/31/24 15:59	
cis-1,2-Dichloroethene	**9.5**	1.0	0.23	1	08/31/24 15:59	
trans-1,2-Dichloroethene	**0.21 J**	1.0	0.20	1	08/31/24 15:59	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	08/31/24 15:59	
Dibromofluoromethane	100	80 - 116	08/31/24 15:59	
Toluene-d8	104	87 - 121	08/31/24 15:59	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 16:20
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU27A-F009	**Units:**	ug/L
Lab Code:	R2408139-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/31/24 14:48	
Trichloroethene (TCE)	**0.24 J**	1.0	0.20	1	08/31/24 14:48	
Vinyl Chloride	**0.44 J**	1.0	0.20	1	08/31/24 14:48	
cis-1,2-Dichloroethene	**1.6**	1.0	0.23	1	08/31/24 14:48	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	08/31/24 14:48	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	08/31/24 14:48	
Dibromofluoromethane	100	80 - 116	08/31/24 14:48	
Toluene-d8	102	87 - 121	08/31/24 14:48	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-TB002-T009	**Units:**	ug/L
Lab Code:	R2408139-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/31/24 13:16	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	08/31/24 13:16	
Vinyl Chloride	1.0 U	1.0	0.20	1	08/31/24 13:16	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	08/31/24 13:16	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	08/31/24 13:16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	08/31/24 13:16	
Dibromofluoromethane	100	80 - 116	08/31/24 13:16	
Toluene-d8	102	87 - 121	08/31/24 13:16	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 08:40
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU019-F009	**Units:**	ug/L
Lab Code:	R2408139-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	2.0 U	2.0	0.42	2	08/31/24 16:22	
Trichloroethene (TCE)	**400 E**	2.0	0.40	2	08/31/24 16:22	
Vinyl Chloride	**41**	2.0	0.40	2	08/31/24 16:22	
cis-1,2-Dichloroethene	**420 E**	2.0	0.46	2	08/31/24 16:22	
trans-1,2-Dichloroethene	**5.2**	2.0	0.40	2	08/31/24 16:22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	08/31/24 16:22	
Dibromofluoromethane	103	80 - 116	08/31/24 16:22	
Toluene-d8	104	87 - 121	08/31/24 16:22	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 08:40
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU019-F009	**Units:**	ug/L
Lab Code:	R2408139-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	5.0	U	5.0	1.1	5	09/01/24 14:51	
Trichloroethene (TCE)	**390**	**D**	5.0	1.0	5	09/01/24 14:51	
Vinyl Chloride	**39**	**D**	5.0	1.0	5	09/01/24 14:51	
cis-1,2-Dichloroethene	**420**	**D**	5.0	1.2	5	09/01/24 14:51	
trans-1,2-Dichloroethene	**4.8**	**DJ**	5.0	1.0	5	09/01/24 14:51	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	09/01/24 14:51	
Dibromofluoromethane	101	80 - 116	09/01/24 14:51	
Toluene-d8	103	87 - 121	09/01/24 14:51	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 10:01
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FB003-B009	**Units:**	ug/L
Lab Code:	R2408139-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/31/24 13:39	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	08/31/24 13:39	
Vinyl Chloride	1.0 U	1.0	0.20	1	08/31/24 13:39	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	08/31/24 13:39	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	08/31/24 13:39	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	08/31/24 13:39	
Dibromofluoromethane	102	80 - 116	08/31/24 13:39	
Toluene-d8	102	87 - 121	08/31/24 13:39	

Volatile Organic Compounds by GC

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dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 18:08
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU011-F009	**Units:**	ug/L
Lab Code:	R2408139-001	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	09/02/24 10:46	
Ethene	5.0 U	5.0	1.3	1	09/02/24 10:46	
Methane	**170**	5.2	3.0	1	09/02/24 10:46	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 14:17
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU009-F009	**Units:**	ug/L
Lab Code:	R2408139-002	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	09/02/24 10:58	
Ethene	5.0 U	5.0	1.3	1	09/02/24 10:58	
Methane	5.2 U	5.2	3.0	1	09/02/24 10:58	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 16:05
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU-016-F009	**Units:**	ug/L
Lab Code:	R2408139-003	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	09/02/24 11:10	
Ethene	5.0 U	5.0	1.3	1	09/02/24 11:10	
Methane	**420**	5.2	3.0	1	09/02/24 11:10	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 20:00
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FD001-D009	**Units:**	ug/L
Lab Code:	R2408139-004	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	09/02/24 11:23	
Ethene	5.0 U	5.0	1.3	1	09/02/24 11:23	
Methane	**410**	5.2	3.0	1	09/02/24 11:23	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 08:42
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU015-F009	**Units:**	ug/L
Lab Code:	R2408139-005	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	09/02/24 11:36	
Ethene	5.0 U	5.0	1.3	1	09/02/24 11:36	
Methane	**7.0**	5.2	3.0	1	09/02/24 11:36	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 10:30
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU010-F009	**Units:**	ug/L
Lab Code:	R2408139-007	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	09/02/24 11:47	
Ethene	5.0 U	5.0	1.3	1	09/02/24 11:47	
Methane	**27**	5.2	3.0	1	09/02/24 11:47	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 12:55
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU008-F009	**Units:**	ug/L
Lab Code:	R2408139-008	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	**1.1 J**	5.2	0.85	1	09/02/24 12:00	
Ethene	5.0 U	5.0	1.3	1	09/02/24 12:00	
Methane	**11**	5.2	3.0	1	09/02/24 12:00	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 16:20
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU27A-F009	**Units:**	ug/L
Lab Code:	R2408139-010	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	100 U	100	17	20	09/02/24 12:35	
Ethene	100 U	100	25	20	09/02/24 12:35	
Methane	**6100**	100	60	20	09/02/24 12:35	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 08:40
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU019-F009	**Units:**	ug/L
Lab Code:	R2408139-012	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Ethane	100	U	100	17	20	09/02/24 13:02	
Ethene	100	U	100	25	20	09/02/24 13:02	
Methane	**6100**	**D**	100	60	20	09/02/24 13:02	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 08:40
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU019-F009	**Units:**	ug/L
Lab Code:	R2408139-012	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	52 U	52	8.5	10	09/02/24 12:49	
Ethene	50 U	50	13	10	09/02/24 12:49	
Methane	**7300 E**	52	30	10	09/02/24 12:49	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 10:01
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FB003-B009	**Units:**	ug/L
Lab Code:	R2408139-013	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	09/02/24 13:41	
Ethene	5.0 U	5.0	1.3	1	09/02/24 13:41	
Methane	5.2 U	5.2	3.0	1	09/02/24 13:41	

Semivolatile Organic Compounds by GC

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 18:08
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU011-F009	**Units:**	mg/L
Lab Code:	R2408139-001	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	09/04/24 23:41	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	09/04/24 23:41	
Propionic Acid	2.0 U	2.0	1.1	1	09/04/24 23:41	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 14:17
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU009-F009	**Units:**	mg/L
Lab Code:	R2408139-002	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0	U	1.0	0.56	1	09/05/24 00:13	
Butanoic Acid (Butyric Acid)	10	U	10	5.0	1	09/05/24 00:13	
Propionic Acid	2.0	U	2.0	1.1	1	09/05/24 00:13	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 16:05
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU-016-F009	**Units:**	mg/L
Lab Code:	R2408139-003	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**2.1**	1.0	0.56	1	09/05/24 00:44	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	09/05/24 00:44	
Propionic Acid	2.0 U	2.0	1.1	1	09/05/24 00:44	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 20:00
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FD001-D009	**Units:**	mg/L
Lab Code:	R2408139-004	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**2.2**	1.0	0.56	1	09/05/24 01:16	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	09/05/24 01:16	
Propionic Acid	2.0 U	2.0	1.1	1	09/05/24 01:16	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 08:42
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU015-F009	**Units:**	mg/L
Lab Code:	R2408139-005	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	09/05/24 01:48	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	09/05/24 01:48	
Propionic Acid	2.0 U	2.0	1.1	1	09/05/24 01:48	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 10:30
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU010-F009	**Units:**	mg/L
Lab Code:	R2408139-007	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**3.9**	1.0	0.56	1	09/05/24 02:20	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	09/05/24 02:20	
Propionic Acid	**11**	2.0	1.1	1	09/05/24 02:20	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 12:55
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU008-F009	**Units:**	mg/L
Lab Code:	R2408139-008	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	09/05/24 02:51	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	09/05/24 02:51	
Propionic Acid	2.0 U	2.0	1.1	1	09/05/24 02:51	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 16:20
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU27A-F009	**Units:**	mg/L
Lab Code:	R2408139-010	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**9.2**	1.0	0.56	1	09/05/24 04:59	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	09/05/24 04:59	
Propionic Acid	**9.3**	2.0	1.1	1	09/05/24 04:59	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 08:40
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU019-F009	**Units:**	mg/L
Lab Code:	R2408139-012	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**820**	5.0	2.8	5	09/16/24 19:42	
Butanoic Acid (Butyric Acid)	**490**	50	25	5	09/16/24 19:42	
Propionic Acid	**280**	10	5.5	5	09/16/24 19:42	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 10:01
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FB003-B009	**Units:**	mg/L
Lab Code:	R2408139-013	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	09/05/24 06:02	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	09/05/24 06:02	
Propionic Acid	2.0 U	2.0	1.1	1	09/05/24 06:02	

Metals

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Form 1

Inorganic Analysis Data Sheet

Metals by EPA 6010D

Workorder

R2408139

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 12-Month Sampling

09/24/2024

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Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 12-Month Sampling	**R2408139**	

Metals by EPA 6010D (P)

OLN-RU011-F009	Collected	Received	Matrix	Prep Method
R2408139-001	08/20/24 1808	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	15		ug/L	6	10	1	09/04/24 20:22	R-ICP-AES-07_853035	444156
P	Iron, Dissolved	1240		ug/L	70	100	1	09/04/24 20:22	R-ICP-AES-07_853035	444156
P	Manganese, Dissolved	765		ug/L	4	10	1	09/04/24 20:22	R-ICP-AES-07_853035	444156

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408139**

Metals by EPA 6010D (P)

OLN-RU009-F009	Collected	Received	Matrix	Prep Method
R2408139-002	08/20/24 1417	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	09/04/24 20:25	R-ICP-AES-07_853035	444156
P	Iron, Dissolved	100	U	ug/L	70	100	1	09/04/24 20:25	R-ICP-AES-07_853035	444156
P	Manganese, Dissolved	10	U	ug/L	4	10	1	09/04/24 20:25	R-ICP-AES-07_853035	444156

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408139**

Metals by EPA 6010D (P)

OLN-RU-016-F009	Collected	Received	Matrix	Prep Method
R2408139-003	08/20/24 1605	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	19	J	ug/L	17	30	3	09/06/24 17:23	R-ICP-AES-07_853309	444156
P	Iron, Dissolved	8550		ug/L	190	300	3	09/06/24 17:23	R-ICP-AES-07_853309	444156
P	Manganese, Dissolved	19800		ug/L	12	30	3	09/06/24 17:23	R-ICP-AES-07_853309	444156

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408139**

Metals by EPA 6010D (P)

OLN-FD001-D009	Collected	Received	Matrix	Prep Method
R2408139-004	08/20/24 2000	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	30	U	ug/L	17	30	3	09/06/24 17:27	R-ICP-AES-07_853309	444156
P	Iron, Dissolved	8220		ug/L	190	300	3	09/06/24 17:27	R-ICP-AES-07_853309	444156
P	Manganese, Dissolved	18800		ug/L	12	30	3	09/06/24 17:27	R-ICP-AES-07_853309	444156

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408139**

Metals by EPA 6010D (P)

OLN-RU015-F009	Collected	Received	Matrix	Prep Method
R2408139-005	08/21/24 0842	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	09/04/24 20:34	R-ICP-AES-07_853035	444156
P	Iron, Dissolved	940		ug/L	70	100	1	09/04/24 20:34	R-ICP-AES-07_853035	444156
P	Manganese, Dissolved	761		ug/L	4	10	1	09/04/24 20:34	R-ICP-AES-07_853035	444156

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408139**

Metals by EPA 6010D (P)

OLN-RU010-F009	Collected	Received	Matrix	Prep Method
R2408139-007	08/21/24 1030	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	12		ug/L	6	10	1	09/06/24 17:30	R-ICP-AES-07_853309	444156
P	Iron, Dissolved	6020		ug/L	70	100	1	09/04/24 20:44	R-ICP-AES-07_853035	444156
P	Manganese, Dissolved	3280		ug/L	4	10	1	09/04/24 20:44	R-ICP-AES-07_853035	444156

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408139**

Metals by EPA 6010D (P)

OLN-RU008-F009	Collected	Received	Matrix	Prep Method
R2408139-008	08/21/24 1255	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	09/04/24 20:47	R-ICP-AES-07_853035	444156
P	Iron, Dissolved	100	U	ug/L	70	100	1	09/04/24 20:47	R-ICP-AES-07_853035	444156
P	Manganese, Dissolved	159		ug/L	4	10	1	09/04/24 20:47	R-ICP-AES-07_853035	444156

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408139**

Metals by EPA 6010D (P)

OLN-RU27A-F009	Collected	Received	Matrix	Prep Method
R2408139-010	08/21/24 1620	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	33	J	ug/L	28	50	5	09/06/24 17:33	R-ICP-AES-07_853309	444156
P	Iron, Dissolved	78800		ug/L	310	500	5	09/06/24 17:33	R-ICP-AES-07_853309	444156
P	Manganese, Dissolved	38400		ug/L	19	50	5	09/06/24 17:33	R-ICP-AES-07_853309	444156

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408139**

Metals by EPA 6010D (P)

OLN-RU019-F009	Collected	Received	Matrix	Prep Method
R2408139-012	08/22/24 0840	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	60		ug/L	28	50	5	09/06/24 17:36	R-ICP-AES-07_853309	444156
P	Iron, Dissolved	95000		ug/L	310	500	5	09/06/24 17:36	R-ICP-AES-07_853309	444156
P	Manganese, Dissolved	26200		ug/L	19	50	5	09/06/24 17:36	R-ICP-AES-07_853309	444156

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408139**

Metals by EPA 6010D (P)

OLN-FB003-B009	Collected	Received	Matrix	Prep Method
R2408139-013	08/22/24 1001	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	09/04/24 21:16	R-ICP-AES-07_853035	444156
P	Iron, Dissolved	100	U	ug/L	70	100	1	09/04/24 21:16	R-ICP-AES-07_853035	444156
P	Manganese, Dissolved	10	U	ug/L	4	10	1	09/04/24 21:16	R-ICP-AES-07_853035	444156

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408139**

Metals by EPA 6010D (P)

Method Blank

	Matrix	Prep Method
R2408139-MB	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	09/04/24 20:15	R-ICP-AES-07_853035	444156
P	Iron, Dissolved	100	U	ug/L	70	100	1	09/04/24 20:15	R-ICP-AES-07_853035	444156
P	Manganese, Dissolved	10	U	ug/L	4	10	1	09/04/24 20:15	R-ICP-AES-07_853035	444156

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

General Chemistry

ALS Environmental—Rochester Laboratory
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Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 18:08
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU011-F009	**Basis:**	NA
Lab Code:	R2408139-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**8.6**	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	**25.9**	mg/L	2.0	0.4	10	09/15/24 12:43	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 14:17
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU009-F009	**Basis:**	NA
Lab Code:	R2408139-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	5.0 U	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	**68.9**	mg/L	2.0	0.4	10	09/15/24 12:50	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 16:05
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU-016-F009	**Basis:**	NA
Lab Code:	R2408139-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**181**	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	**6.2**	mg/L	2.0	0.4	10	09/15/24 12:56	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 20:00
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FD001-D009	**Basis:**	NA
Lab Code:	R2408139-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**190**	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	**6.1**	mg/L	2.0	0.4	10	09/15/24 13:21	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 08:42
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU015-F009	**Basis:**	NA
Lab Code:	R2408139-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**9.3**	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	**24.6**	mg/L	2.0	0.4	10	09/15/24 13:27	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 09:22
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-OU3AMEND-SC006	**Basis:**	NA
Lab Code:	R2408139-006		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Sulfate	300.0	20 U	mg/L	20	4	100	09/15/24 14:30	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 10:30
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU010-F009	**Basis:**	NA
Lab Code:	R2408139-007		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**1970**	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	**201**	mg/L	8.0	1.6	40	09/15/24 18:07	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 12:55
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU008-F009	**Basis:**	NA
Lab Code:	R2408139-008		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**6.0**	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	**40.5**	mg/L	2.0	0.4	10	09/15/24 13:40	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 16:20
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU27A-F009	**Basis:**	NA
Lab Code:	R2408139-010		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**47.5**	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	**1.4 J**	mg/L	2.0	0.4	10	09/15/24 13:58	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 08:40
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU019-F009	**Basis:**	NA
Lab Code:	R2408139-012		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**838**	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	**68.1**	mg/L	2.0	0.4	10	09/15/24 14:05	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 10:01
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FB003-B009	**Basis:**	NA
Lab Code:	R2408139-013		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	5.0	U	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	2.0	U	mg/L	2.0	0.4	10	09/15/24 14:11	

QC Summary Forms

ALS Environmental—Rochester Laboratory
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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
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QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408139
Project: Olean OU3 12-Month Sampling/300-082
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene 85 - 122	Dibromofluoromethane 80 - 116	Toluene-d8 87 - 121
OLN-RU011-F009	R2408139-001	99	102	103
OLN-RU009-F009	R2408139-002	97	101	104
OLN-RU-016-F009	R2408139-003	100	100	104
OLN-FD001-D009	R2408139-004	102	102	105
OLN-RU015-F009	R2408139-005	98	103	105
OLN-RU010-F009	R2408139-007	94	96	97
OLN-RU008-F009	R2408139-008	99	100	104
OLN-RU27A-F009	R2408139-010	99	100	102
OLN-TB002-T009	R2408139-011	96	100	102
OLN-RU019-F009	R2408139-012	101	103	104
OLN-RU019-F009 DL	R2408139-012	99	101	103
OLN-FB003-B009	R2408139-013	96	102	102
Lab Control Sample	RQ2410802-03	99	101	100
Method Blank	RQ2410802-05	96	99	101
OLN-RU011-F009 MS	RQ2410802-06	103	104	104
OLN-RU011-F009 DMS	RQ2410802-07	101	101	102
Lab Control Sample	RQ2410851-02	104	105	106
Method Blank	RQ2410851-03	102	101	105
OLN-RU008-F009 MS	RQ2410851-04	104	104	104
OLN-RU008-F009 DMS	RQ2410851-05	100	101	102
Lab Control Sample	RQ2410853-02	100	102	102
Method Blank	RQ2410853-03	99	99	101

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24
Sample Matrix:	Water	**Date Received:**	08/23/24
		Date Analyzed:	08/30/24
		Date Extracted:	NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name:	OLN-RU011-F009	**Units:**	ug/L
Lab Code:	R2408139-001	**Basis:**	NA
Analysis Method:	8260D		
Prep Method:	EPA 5030C		

		Matrix Spike RQ2410802-06			Duplicate Matrix Spike RQ2410802-07					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Tetrachloroethene (PCE)	1.0 U	48.3	50.0	97	50.9	50.0	102	72-125	5	30
Trichloroethene (TCE)	1.0 U	48.4	50.0	97	50.1	50.0	100	74-122	3	30
Vinyl Chloride	1.5	46.5	50.0	90	48.2	50.0	93	74-159	4	30
cis-1,2-Dichloroethene	6.4	53.9	50.0	95	56.0	50.0	99	77-127	4	30
trans-1,2-Dichloroethene	1.0 U	47.2	50.0	94	48.8	50.0	98	73-118	3	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24
Sample Matrix:	Water	**Date Received:**	08/23/24
		Date Analyzed:	08/31/24
		Date Extracted:	NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name:	OLN-RU008-F009	**Units:**	ug/L
Lab Code:	R2408139-008	**Basis:**	NA
Analysis Method:	8260D		
Prep Method:	EPA 5030C		

		Matrix Spike RQ2410851-04			**Duplicate Matrix Spike** RQ2410851-05					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Tetrachloroethene (PCE)	0.51 J	48.6	50.0	96	50.8	50.0	101	72-125	5	30
Trichloroethene (TCE)	200	237 E	50.0	80	232 E	50.0	70 *	74-122	2	30
Vinyl Chloride	0.55 J	45.1	50.0	89	47.9	50.0	95	74-159	6	30
cis-1,2-Dichloroethene	9.5	56.2	50.0	94	59.1	50.0	99	77-127	5	30
trans-1,2-Dichloroethene	0.21 J	47.3	50.0	94	49.5	50.0	99	73-118	5	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	08/30/24 10:00
Sample Matrix:	Water	**Date Extracted:**	

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	R-MS-17
Lab Code:	RQ2410802-05	**File ID:**	I:\ACQUDATA\MSVOA17\Data\083024\K5392.D\
Analysis Method:	8260D	**Analysis Lot:**	852468
Prep Method:	EPA 5030C		

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ2410802-03	I:\ACQUDATA\MSVOA17\Data\083024 \K5389.D\	08/30/24 08:41
OLN-RU011-F009	R2408139-001	I:\ACQUDATA\MSVOA17\Data\083024 \K5396.D\	08/30/24 11:35
OLN-RU009-F009	R2408139-002	I:\ACQUDATA\MSVOA17\Data\083024 \K5397.D\	08/30/24 11:59
OLN-RU-016-F009	R2408139-003	I:\ACQUDATA\MSVOA17\Data\083024 \K5398.D\	08/30/24 12:22
OLN-RU011-F009MS	RQ2410802-06	I:\ACQUDATA\MSVOA17\Data\083024 \K5413.D\	08/30/24 18:18
OLN-RU011-F009DMS	RQ2410802-07	I:\ACQUDATA\MSVOA17\Data\083024 \K5414.D\	08/30/24 18:42

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	08/31/24 12:52
Sample Matrix:	Water	**Date Extracted:**	

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	R-MS-17
Lab Code:	RQ2410851-03	**File ID:**	I:\ACQUDATA\MSVOA17\Data\083124\K5425.D\
Analysis Method:	8260D	**Analysis Lot:**	852643
Prep Method:	EPA 5030C		

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ2410851-02	I:\ACQUDATA\MSVOA17\Data\083124 \K5422.D\	08/31/24 11:32
OLN-TB002-T009	R2408139-011	I:\ACQUDATA\MSVOA17\Data\083124 \K5426.D\	08/31/24 13:16
OLN-FB003-B009	R2408139-013	I:\ACQUDATA\MSVOA17\Data\083124 \K5427.D\	08/31/24 13:39
OLN-RU015-F009	R2408139-005	I:\ACQUDATA\MSVOA17\Data\083124 \K5429.D\	08/31/24 14:25
OLN-RU27A-F009	R2408139-010	I:\ACQUDATA\MSVOA17\Data\083124 \K5430.D\	08/31/24 14:48
OLN-FD001-D009	R2408139-004	I:\ACQUDATA\MSVOA17\Data\083124 \K5431.D\	08/31/24 15:12
OLN-RU010-F009	R2408139-007	I:\ACQUDATA\MSVOA17\Data\083124 \K5432.D\	08/31/24 15:35
OLN-RU008-F009	R2408139-008	I:\ACQUDATA\MSVOA17\Data\083124 \K5433.D\	08/31/24 15:59
OLN-RU019-F009	R2408139-012	I:\ACQUDATA\MSVOA17\Data\083124 \K5434.D\	08/31/24 16:22
OLN-RU008-F009MS	RQ2410851-04	I:\ACQUDATA\MSVOA17\Data\083124 \K5446.D\	08/31/24 21:05
OLN-RU008-F009DMS	RQ2410851-05	I:\ACQUDATA\MSVOA17\Data\083124 \K5447.D\	08/31/24 21:28

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	09/01/24 14:26
Sample Matrix:	Water	**Date Extracted:**	

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	R-MS-17
Lab Code:	RQ2410853-03	**File ID:**	I:\ACQUDATA\MSVOA17\Data\090124\K5456.D\
Analysis Method:	8260D	**Analysis Lot:**	852662
Prep Method:	EPA 5030C		

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ2410853-02	I:\ACQUDATA\MSVOA17\Data\090124 \K5453.D\	09/01/24 13:06
OLN-RU019-F009	R2408139-012	I:\ACQUDATA\MSVOA17\Data\090124 \K5457.D\	09/01/24 14:51

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2410802-05	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/30/24 10:00	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	08/30/24 10:00	
Vinyl Chloride	1.0 U	1.0	0.20	1	08/30/24 10:00	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	08/30/24 10:00	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	08/30/24 10:00	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	08/30/24 10:00	
Dibromofluoromethane	99	80 - 116	08/30/24 10:00	
Toluene-d8	101	87 - 121	08/30/24 10:00	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2410851-03	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/31/24 12:52	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	08/31/24 12:52	
Vinyl Chloride	1.0 U	1.0	0.20	1	08/31/24 12:52	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	08/31/24 12:52	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	08/31/24 12:52	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	08/31/24 12:52	
Dibromofluoromethane	101	80 - 116	08/31/24 12:52	
Toluene-d8	105	87 - 121	08/31/24 12:52	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2410853-03	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/01/24 14:26	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	09/01/24 14:26	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/01/24 14:26	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	09/01/24 14:26	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/01/24 14:26	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	09/01/24 14:26	
Dibromofluoromethane	99	80 - 116	09/01/24 14:26	
Toluene-d8	101	87 - 121	09/01/24 14:26	

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	08/30/24 08:41
Sample Matrix:	Water	**Date Extracted:**	

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: RQ2410802-03
Instrument ID: R-MS-17
File ID: I:\ACQUDATA\MSVOA17\Data\083024\K5389.D\

Analysis Method: 8260D
Prep Method: EPA 5030C
Analysis Lot: 852468

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ2410802-05	I:\ACQUDATA\MSVOA17\Data\083024\K5392.D\	08/30/24 10:00
OLN-RU011-F009	R2408139-001	I:\ACQUDATA\MSVOA17\Data\083024\K5396.D\	08/30/24 11:35
OLN-RU009-F009	R2408139-002	I:\ACQUDATA\MSVOA17\Data\083024\K5397.D\	08/30/24 11:59
OLN-RU-016-F009	R2408139-003	I:\ACQUDATA\MSVOA17\Data\083024\K5398.D\	08/30/24 12:22
OLN-RU011-F009MS	RQ2410802-06	I:\ACQUDATA\MSVOA17\Data\083024\K5413.D\	08/30/24 18:18
OLN-RU011-F009DMS	RQ2410802-07	I:\ACQUDATA\MSVOA17\Data\083024\K5414.D\	08/30/24 18:42

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	08/31/24 11:32
Sample Matrix:	Water	**Date Extracted:**	

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: RQ2410851-02
Instrument ID: R-MS-17
File ID: I:\ACQUDATA\MSVOA17\Data\083124\K5422.D\

Analysis Method: 8260D
Prep Method: EPA 5030C
Analysis Lot: 852643

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ2410851-03	I:\ACQUDATA\MSVOA17\Data\083124\K5425.D\	08/31/24 12:52
OLN-TB002-T009	R2408139-011	I:\ACQUDATA\MSVOA17\Data\083124\K5426.D\	08/31/24 13:16
OLN-FB003-B009	R2408139-013	I:\ACQUDATA\MSVOA17\Data\083124\K5427.D\	08/31/24 13:39
OLN-RU015-F009	R2408139-005	I:\ACQUDATA\MSVOA17\Data\083124\K5429.D\	08/31/24 14:25
OLN-RU27A-F009	R2408139-010	I:\ACQUDATA\MSVOA17\Data\083124\K5430.D\	08/31/24 14:48
OLN-FD001-D009	R2408139-004	I:\ACQUDATA\MSVOA17\Data\083124\K5431.D\	08/31/24 15:12
OLN-RU010-F009	R2408139-007	I:\ACQUDATA\MSVOA17\Data\083124\K5432.D\	08/31/24 15:35
OLN-RU008-F009	R2408139-008	I:\ACQUDATA\MSVOA17\Data\083124\K5433.D\	08/31/24 15:59
OLN-RU019-F009	R2408139-012	I:\ACQUDATA\MSVOA17\Data\083124\K5434.D\	08/31/24 16:22
OLN-RU008-F009MS	RQ2410851-04	I:\ACQUDATA\MSVOA17\Data\083124\K5446.D\	08/31/24 21:05
OLN-RU008-F009DMS	RQ2410851-05	I:\ACQUDATA\MSVOA17\Data\083124\K5447.D\	08/31/24 21:28

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	09/01/24 13:06
Sample Matrix:	Water	**Date Extracted:**	

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Lab Control Sample	**Instrument ID:**	R-MS-17
Lab Code:	RQ2410853-02	**File ID:**	I:\ACQUDATA\MSVOA17\Data\090124\K5453.D\
Analysis Method:	8260D	**Analysis Lot:**	852662
Prep Method:	EPA 5030C		

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ2410853-03	I:\ACQUDATA\MSVOA17\Data\090124 \K5456.D\	09/01/24 14:26
OLN-RU019-F009	R2408139-012	I:\ACQUDATA\MSVOA17\Data\090124 \K5457.D\	09/01/24 14:51

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QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 12-Month Sampling/300-082
Sample Matrix: Water

Service Request: R2408139
Date Analyzed: 08/30/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2410802-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Tetrachloroethene (PCE)	8260D	18.7	20.0	94	72-125
Trichloroethene (TCE)	8260D	17.7	20.0	88	74-122
Vinyl Chloride	8260D	15.7	20.0	79	74-159
cis-1,2-Dichloroethene	8260D	17.4	20.0	87	80-121
trans-1,2-Dichloroethene	8260D	16.5	20.0	83	73-118

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QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 12-Month Sampling/300-082
Sample Matrix: Water

Service Request: R2408139
Date Analyzed: 08/31/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2410851-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Tetrachloroethene (PCE)	8260D	21.1	20.0	105	72-125
Trichloroethene (TCE)	8260D	20.3	20.0	102	74-122
Vinyl Chloride	8260D	19.2	20.0	96	74-159
cis-1,2-Dichloroethene	8260D	20.5	20.0	102	80-121
trans-1,2-Dichloroethene	8260D	20.4	20.0	102	73-118

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QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 12-Month Sampling/300-082
Sample Matrix: Water

Service Request: R2408139
Date Analyzed: 09/01/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2410853-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Tetrachloroethene (PCE)	8260D	20.4	20.0	102	72-125
Trichloroethene (TCE)	8260D	19.8	20.0	99	74-122
Vinyl Chloride	8260D	17.8	20.0	89	74-159
cis-1,2-Dichloroethene	8260D	19.2	20.0	96	80-121
trans-1,2-Dichloroethene	8260D	19.4	20.0	97	73-118

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408139
Project: Olean OU3 12-Month Sampling/300-082 **Date Analyzed:**08/30/24 07:42

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA17\Data\083024\K5387.D\ **Analytical Method:** 8260D
Instrument ID: R-MS-17 **Analysis Lot:** 852468

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ2410802-01	I:\ACQUDATA\MSVOA17\Data\083024\K5387.D\	08/30/24 07:42	
Lab Control Sample	RQ2410802-03	I:\ACQUDATA\MSVOA17\Data\083024\K5389.D\	08/30/24 08:41	
Method Blank	RQ2410802-05	I:\ACQUDATA\MSVOA17\Data\083024\K5392.D\	08/30/24 10:00	
OLN-RU011-F009	R2408139-001	I:\ACQUDATA\MSVOA17\Data\083024\K5396.D\	08/30/24 11:35	
OLN-RU009-F009	R2408139-002	I:\ACQUDATA\MSVOA17\Data\083024\K5397.D\	08/30/24 11:59	
OLN-RU-016-F009	R2408139-003	I:\ACQUDATA\MSVOA17\Data\083024\K5398.D\	08/30/24 12:22	
OLN-RU011-F009	RQ2410802-06	I:\ACQUDATA\MSVOA17\Data\083024\K5413.D\	08/30/24 18:18	
OLN-RU011-F009	RQ2410802-07	I:\ACQUDATA\MSVOA17\Data\083024\K5414.D\	08/30/24 18:42	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408139
Project: Olean OU3 12-Month Sampling/300-082 **Date Analyzed:**08/31/24 11:00

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA17\Data\083124\K5421.D\ **Analytical Method:** 8260D
Instrument ID: R-MS-17 **Analysis Lot:** 852643

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ2410851-01	I:\ACQUDATA\MSVOA17\Data\083124\K5421.D\	08/31/24 11:00	
Lab Control Sample	RQ2410851-02	I:\ACQUDATA\MSVOA17\Data\083124\K5422.D\	08/31/24 11:32	
Method Blank	RQ2410851-03	I:\ACQUDATA\MSVOA17\Data\083124\K5425.D\	08/31/24 12:52	
OLN-TB002-T009	R2408139-011	I:\ACQUDATA\MSVOA17\Data\083124\K5426.D\	08/31/24 13:16	
OLN-FB003-B009	R2408139-013	I:\ACQUDATA\MSVOA17\Data\083124\K5427.D\	08/31/24 13:39	
OLN-RU015-F009	R2408139-005	I:\ACQUDATA\MSVOA17\Data\083124\K5429.D\	08/31/24 14:25	
OLN-RU27A-F009	R2408139-010	I:\ACQUDATA\MSVOA17\Data\083124\K5430.D\	08/31/24 14:48	
OLN-FD001-D009	R2408139-004	I:\ACQUDATA\MSVOA17\Data\083124\K5431.D\	08/31/24 15:12	
OLN-RU010-F009	R2408139-007	I:\ACQUDATA\MSVOA17\Data\083124\K5432.D\	08/31/24 15:35	
OLN-RU008-F009	R2408139-008	I:\ACQUDATA\MSVOA17\Data\083124\K5433.D\	08/31/24 15:59	
OLN-RU019-F009	R2408139-012	I:\ACQUDATA\MSVOA17\Data\083124\K5434.D\	08/31/24 16:22	
OLN-RU008-F009	RQ2410851-04	I:\ACQUDATA\MSVOA17\Data\083124\K5446.D\	08/31/24 21:05	
OLN-RU008-F009	RQ2410851-05	I:\ACQUDATA\MSVOA17\Data\083124\K5447.D\	08/31/24 21:28	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408139
Project: Olean OU3 12-Month Sampling/300-082 **Date Analyzed:**09/01/24 12:31

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA17\Data\090124\K5452.D\ **Analytical Method:** 8260D
Instrument ID: R-MS-17 **Analysis Lot:** 852662

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ2410853-01	I:\ACQUDATA\MSVOA17\Data\090124\K5452.D\	09/01/24 12:31	
Lab Control Sample	RQ2410853-02	I:\ACQUDATA\MSVOA17\Data\090124\K5453.D\	09/01/24 13:06	
Method Blank	RQ2410853-03	I:\ACQUDATA\MSVOA17\Data\090124\K5456.D\	09/01/24 14:26	
OLN-RU019-F009	R2408139-012	I:\ACQUDATA\MSVOA17\Data\090124\K5457.D\	09/01/24 14:51	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408139
Project: Olean OU3 12-Month Sampling/300-082 **Date Analyzed:**08/30/24 07:42

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA17\Data\083024\K5387.D\ **Lab Code:**RQ2410802-01
Instrument ID: R-MS-17 **Analysis Lot:**852468
Analysis Method: 8260D **Signal ID:**1

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	272,758	11.64	629,204	6.17	567,778	9.57
	Upper Limit ==>	545,516	11.81	1,258,408	6.34	1,135,556	9.74
	Lower Limit ==>	136,379	11.47	314,602	6.00	283,889	9.40
Associated Analyses							
Lab Control Sample	RQ2410802-03	273606	11.64	643725	6.17	571471	9.57
Method Blank	RQ2410802-05	258249	11.64	626756	6.17	563835	9.57
OLN-RU011-F009	R2408139-001	256135	11.64	620523	6.17	557418	9.57
OLN-RU009-F009	R2408139-002	251221	11.64	608079	6.17	541226	9.57
OLN-RU-016-F009	R2408139-003	254784	11.64	607389	6.17	542955	9.57
OLN-RU011-F009MS	RQ2410802-06	258347	11.64	603417	6.18	542347	9.57
OLN-RU011-F009DMS	RQ2410802-07	265071	11.64	610690	6.17	552601	9.57

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QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408139
Project: Olean OU3 12-Month Sampling/300-082 **Date Analyzed:**08/30/24 07:42

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA17\Data\083024\K5387.D\ **Lab Code:**RQ2410802-01
Instrument ID: R-MS-17 **Analysis Lot:**852468
Analysis Method: 8260D **Signal ID:**1

		Pentafluorobenzene	
		Area	**RT**
	Result ==>	380,460	4.99
	Upper Limit ==>	760,920	5.16
	Lower Limit ==>	190,230	4.82
Associated Analyses			
Lab Control Sample	RQ2410802-03	389081	4.99
Method Blank	RQ2410802-05	383490	4.99
OLN-RU011-F009	R2408139-001	373773	4.99
OLN-RU009-F009	R2408139-002	365597	4.99
OLN-RU-016-F009	R2408139-003	367572	5.00
OLN-RU011-F009MS	RQ2410802-06	363267	4.99
OLN-RU011-F009DMS	RQ2410802-07	370304	5.00

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QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408139
Project: Olean OU3 12-Month Sampling/300-082 **Date Analyzed:**08/31/24 11:00

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA17\Data\083124\K5421.D\ **Lab Code:**RQ2410851-01
Instrument ID: R-MS-17 **Analysis Lot:**852643
Analysis Method: 8260D **Signal ID:**1

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	256,641	11.64	615,006	6.17	551,221	9.57
	Upper Limit ==>	513,282	11.81	1,230,012	6.34	1,102,442	9.74
	Lower Limit ==>	128,321	11.47	307,503	6.00	275,611	9.40
Associated Analyses							
Lab Control Sample	RQ2410851-02	275954	11.64	643870	6.17	580444	9.57
Method Blank	RQ2410851-03	260718	11.64	638243	6.17	568242	9.57
OLN-TB002-T009	R2408139-011	256910	11.64	628963	6.17	558567	9.57
OLN-FB003-B009	R2408139-013	255456	11.64	624096	6.17	554578	9.57
OLN-RU015-F009	R2408139-005	254648	11.64	626098	6.17	563404	9.57
OLN-RU27A-F009	R2408139-010	256205	11.64	621265	6.17	556596	9.57
OLN-FD001-D009	R2408139-004	264617	11.64	636956	6.17	570629	9.57
OLN-RU010-F009	R2408139-007	266040	11.64	641097	6.17	575427	9.57
OLN-RU008-F009	R2408139-008	253426	11.64	615286	6.17	549353	9.57
OLN-RU019-F009	R2408139-012	258467	11.64	608620	6.17	548907	9.57
OLN-RU008-F009MS	RQ2410851-04	255529	11.64	595201	6.17	533228	9.57
OLN-RU008-F009DMS	RQ2410851-05	264953	11.64	616845	6.17	560203	9.57

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QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408139
Project: Olean OU3 12-Month Sampling/300-082 **Date Analyzed:**08/31/24 11:00

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA17\Data\083124\K5421.D\ **Lab Code:**RQ2410851-01
Instrument ID: R-MS-17 **Analysis Lot:**852643
Analysis Method: 8260D **Signal ID:**1

		Pentafluorobenzene	
		Area	**RT**
	Result ==>	371,575	4.99
	Upper Limit ==>	743,150	5.16
	Lower Limit ==>	185,788	4.82
Associated Analyses			
Lab Control Sample	RQ2410851-02	386277	4.99
Method Blank	RQ2410851-03	391681	4.99
OLN-TB002-T009	R2408139-011	379267	4.99
OLN-FB003-B009	R2408139-013	374522	4.99
OLN-RU015-F009	R2408139-005	376777	4.99
OLN-RU27A-F009	R2408139-010	373673	4.99
OLN-FD001-D009	R2408139-004	387713	4.99
OLN-RU010-F009	R2408139-007	386013	4.99
OLN-RU008-F009	R2408139-008	367046	4.99
OLN-RU019-F009	R2408139-012	366823	4.99
OLN-RU008-F009MS	RQ2410851-04	359060	4.99
OLN-RU008-F009DMS	RQ2410851-05	370740	4.99

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408139
Project: Olean OU3 12-Month Sampling/300-082 **Date Analyzed:**09/01/24 12:31

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA17\Data\090124\K5452.D\ **Lab Code:**RQ2410853-01
Instrument ID: R-MS-17 **Analysis Lot:**852662
Analysis Method: 8260D **Signal ID:**1

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	269,183	11.64	630,882	6.17	567,148	9.57
	Upper Limit ==>	538,366	11.81	1,261,764	6.34	1,134,296	9.74
	Lower Limit ==>	134,592	11.47	315,441	6.00	283,574	9.40
Associated Analyses							
Lab Control Sample	RQ2410853-02	271079	11.64	632520	6.17	571125	9.57
Method Blank	RQ2410853-03	260772	11.64	629464	6.17	561512	9.57
OLN-RU019-F009	R2408139-012	251403	11.64	616400	6.18	548935	9.57

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QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408139
Project: Olean OU3 12-Month Sampling/300-082 **Date Analyzed:**09/01/24 12:31

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA17\Data\090124\K5452.D\ **Lab Code:**RQ2410853-01
Instrument ID: R-MS-17 **Analysis Lot:**852662
Analysis Method: 8260D **Signal ID:**1

		Pentafluorobenzene	
		Area	**RT**
	Result ==>	383,227	4.99
	Upper Limit ==>	766,454	5.16
	Lower Limit ==>	191,614	4.82
Associated Analyses			
Lab Control Sample	RQ2410853-02	383031	4.99
Method Blank	RQ2410853-03	381833	4.99
OLN-RU019-F009	R2408139-012	362324	4.99

Volatile Organic Compounds by GC

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QA/QC Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24
Sample Matrix:	Water	**Date Received:**	08/23/24
		Date Analyzed:	09/2/24

Duplicate Matrix Spike Summary
Dissolved Gases by GC/FID

Sample Name:	OLN-RU008-F009	**Units:**	ug/L
Lab Code:	R2408139-008	**Basis:**	NA
Analysis Method:	RSK 175		

		Matrix Spike RQ2410862-04			**Duplicate Matrix Spike** RQ2410862-05					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Ethane	1.1 J	225	260	86	227	260	87	76-126	1	20
Ethene	5.0 U	221	243	91	224	243	92	67-132	1	20
Methane	11	216	262	78	217	262	79	46-143	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408139
Project: Olean OU3 12-Month Sampling/300-082 **Date Analyzed:** 09/02/24 10:09
Sample Matrix: Water

Method Blank Summary
Dissolved Gases by GC/FID

Sample Name: Method Blank **Instrument ID:**R-GC-70
Lab Code: RQ2410862-02 **File ID:**I:\ACQUDATA\GC-70\DATA\090224\A0855.D\

Analysis Method: RSK 175 **Analysis Lot:**852664

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ2410862-03	I:\ACQUDATA\GC-70\DATA\090224\A0856.D\	09/02/24 10:21
OLN-RU011-F009	R2408139-001	I:\ACQUDATA\GC-70\DATA\090224\A0857.D\	09/02/24 10:46
OLN-RU009-F009	R2408139-002	I:\ACQUDATA\GC-70\DATA\090224\A0858.D\	09/02/24 10:58
OLN-RU-016-F009	R2408139-003	I:\ACQUDATA\GC-70\DATA\090224\A0859.D\	09/02/24 11:10
OLN-FD001-D009	R2408139-004	I:\ACQUDATA\GC-70\DATA\090224\A0860.D\	09/02/24 11:23
OLN-RU015-F009	R2408139-005	I:\ACQUDATA\GC-70\DATA\090224\A0861.D\	09/02/24 11:36
OLN-RU010-F009	R2408139-007	I:\ACQUDATA\GC-70\DATA\090224\A0862.D\	09/02/24 11:47
OLN-RU008-F009	R2408139-008	I:\ACQUDATA\GC-70\DATA\090224\A0863.D\	09/02/24 12:00
OLN-RU008-F009MS	RQ2410862-04	I:\ACQUDATA\GC-70\DATA\090224\A0864.D\	09/02/24 12:12
OLN-RU008-F009DMS	RQ2410862-05	I:\ACQUDATA\GC-70\DATA\090224\A0865.D\	09/02/24 12:24
OLN-RU27A-F009	R2408139-010	I:\ACQUDATA\GC-70\DATA\090224\A0866.D\	09/02/24 12:35
OLN-RU019-F009	R2408139-012	I:\ACQUDATA\GC-70\DATA\090224\A0867.D\	09/02/24 12:49
OLN-RU019-F009	R2408139-012	I:\ACQUDATA\GC-70\DATA\090224\A0868.D\	09/02/24 13:02
OLN-FB003-B009	R2408139-013	I:\ACQUDATA\GC-70\DATA\090224\A0871.D\	09/02/24 13:41

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2410862-02	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	09/02/24 10:09	
Ethene	5.0 U	5.0	1.3	1	09/02/24 10:09	
Methane	5.2 U	5.2	3.0	1	09/02/24 10:09	

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	09/02/24 10:21
Sample Matrix:	Water		

Lab Control Sample Summary
Dissolved Gases by GC/FID

Sample Name: Lab Control Sample **Instrument ID:**R-GC-70
Lab Code: RQ2410862-03 **File ID:**I:\ACQUDATA\GC-70\DATA\090224\A0856.D\

Analysis Method: RSK 175 **Analysis Lot:**852664

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ2410862-02	I:\ACQUDATA\GC-70\DATA\090224\A0855.D\	09/02/24 10:09
OLN-RU011-F009	R2408139-001	I:\ACQUDATA\GC-70\DATA\090224\A0857.D\	09/02/24 10:46
OLN-RU009-F009	R2408139-002	I:\ACQUDATA\GC-70\DATA\090224\A0858.D\	09/02/24 10:58
OLN-RU-016-F009	R2408139-003	I:\ACQUDATA\GC-70\DATA\090224\A0859.D\	09/02/24 11:10
OLN-FD001-D009	R2408139-004	I:\ACQUDATA\GC-70\DATA\090224\A0860.D\	09/02/24 11:23
OLN-RU015-F009	R2408139-005	I:\ACQUDATA\GC-70\DATA\090224\A0861.D\	09/02/24 11:36
OLN-RU010-F009	R2408139-007	I:\ACQUDATA\GC-70\DATA\090224\A0862.D\	09/02/24 11:47
OLN-RU008-F009	R2408139-008	I:\ACQUDATA\GC-70\DATA\090224\A0863.D\	09/02/24 12:00
OLN-RU008-F009MS	RQ2410862-04	I:\ACQUDATA\GC-70\DATA\090224\A0864.D\	09/02/24 12:12
OLN-RU008-F009DMS	RQ2410862-05	I:\ACQUDATA\GC-70\DATA\090224\A0865.D\	09/02/24 12:24
OLN-RU27A-F009	R2408139-010	I:\ACQUDATA\GC-70\DATA\090224\A0866.D\	09/02/24 12:35
OLN-RU019-F009	R2408139-012	I:\ACQUDATA\GC-70\DATA\090224\A0867.D\	09/02/24 12:49
OLN-RU019-F009	R2408139-012	I:\ACQUDATA\GC-70\DATA\090224\A0868.D\	09/02/24 13:02
OLN-FB003-B009	R2408139-013	I:\ACQUDATA\GC-70\DATA\090224\A0871.D\	09/02/24 13:41

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QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 12-Month Sampling/300-082
Sample Matrix: Water

Service Request: R2408139
Date Analyzed: 09/02/24

Lab Control Sample Summary
Dissolved Gases by GC/FID

Units:ug/L
Basis:NA

Lab Control Sample
RQ2410862-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Ethane	RSK 175	147	130	113	85-115
Ethene	RSK 175	124	121	102	85-115
Methane	RSK 175	135	131	103	85-115

Semivolatile Organic Compounds by GC

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QA/QC Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24
Sample Matrix:	Water	**Date Received:**	08/23/24
		Date Analyzed:	09/5/24

Duplicate Matrix Spike Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Sample Name:	OLN-RU008-F009	**Units:**	mg/L
Lab Code:	R2408139-008	**Basis:**	NA
Analysis Method:	Organic Acids		

		Matrix Spike RQ2411191-06			Duplicate Matrix Spike RQ2411191-07					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Acetic Acid	1.0 U	17.5	20.0	88	18.1	20.0	91	10-179	4	30
Butanoic Acid (Butyric Acid)	10 U	19.0	20.0	95	20.5	20.0	103	39-161	8	30
Propionic Acid	2.0 U	20.1	20.0	100	20.7	20.0	104	49-162	3	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408139
Project: Olean OU3 12-Month Sampling/300-082 **Date Analyzed:** 09/04/24 22:05
Sample Matrix: Water

Method Blank Summary

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Sample Name: Method Blank **Instrument ID:**R-HPLC-08
Lab Code: RQ2411191-02 **File ID:**I:\ACQUDATA\HPLC08\DATA\090424\A0000203.D\

Analysis Method: Organic Acids **Analysis Lot:**853323

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ2411191-03	I:\ACQUDATA\HPLC08\DATA\090424 \A0000204.D\	09/04/24 22:37
Duplicate Lab Control Sample	RQ2411191-04	I:\ACQUDATA\HPLC08\DATA\090424 \A0000205.D\	09/04/24 23:09
OLN-RU011-F009	R2408139-001	I:\ACQUDATA\HPLC08\DATA\090424 \A0000206.D\	09/04/24 23:41
OLN-RU009-F009	R2408139-002	I:\ACQUDATA\HPLC08\DATA\090424 \A0000207.D\	09/05/24 00:13
OLN-RU-016-F009	R2408139-003	I:\ACQUDATA\HPLC08\DATA\090424 \A0000208.D\	09/05/24 00:44
OLN-FD001-D009	R2408139-004	I:\ACQUDATA\HPLC08\DATA\090424 \A0000209.D\	09/05/24 01:16
OLN-RU015-F009	R2408139-005	I:\ACQUDATA\HPLC08\DATA\090424 \A0000210.D\	09/05/24 01:48
OLN-RU010-F009	R2408139-007	I:\ACQUDATA\HPLC08\DATA\090424 \A0000211.D\	09/05/24 02:20
OLN-RU008-F009	R2408139-008	I:\ACQUDATA\HPLC08\DATA\090424 \A0000212.D\	09/05/24 02:51
OLN-RU008-F009MS	RQ2411191-06	I:\ACQUDATA\HPLC08\DATA\090424 \A0000214.D\	09/05/24 03:55
OLN-RU008-F009DMS	RQ2411191-07	I:\ACQUDATA\HPLC08\DATA\090424 \A0000215.D\	09/05/24 04:27
OLN-RU27A-F009	R2408139-010	I:\ACQUDATA\HPLC08\DATA\090424 \A0000216.D\	09/05/24 04:59
OLN-FB003-B009	R2408139-013	I:\ACQUDATA\HPLC08\DATA\090424 \A0000218.D\	09/05/24 06:02

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	09/16/24 18:07
Sample Matrix:	Water		

Method Blank Summary

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Sample Name:	Method Blank	**Instrument ID:**	R-HPLC-08
Lab Code:	RQ2411683-02	**File ID:**	I:\ACQUDATA\HPLC08\DATA\091624\A0000233.D\
Analysis Method:	Organic Acids	**Analysis Lot:**	854397

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ2411683-03	I:\ACQUDATA\HPLC08\DATA\091624 \A0000234.D\	09/16/24 18:39
Duplicate Lab Control Sample	RQ2411683-04	I:\ACQUDATA\HPLC08\DATA\091624 \A0000235.D\	09/16/24 19:10
OLN-RU019-F009	R2408139-012	I:\ACQUDATA\HPLC08\DATA\091624 \A0000236.D\	09/16/24 19:42

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	mg/L
Lab Code:	RQ2411191-02	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0	U	1.0	0.56	1	09/04/24 22:05	
Butanoic Acid (Butyric Acid)	10	U	10	5.0	1	09/04/24 22:05	
Propionic Acid	2.0	U	2.0	1.1	1	09/04/24 22:05	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	mg/L
Lab Code:	RQ2411683-02	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0	U	1.0	0.56	1	09/16/24 18:07	
Butanoic Acid (Butyric Acid)	10	U	10	5.0	1	09/16/24 18:07	
Propionic Acid	2.0	U	2.0	1.1	1	09/16/24 18:07	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408139
Project: Olean OU3 12-Month Sampling/300-082 **Date Analyzed:** 09/04/24 22:37
Sample Matrix: Water

Lab Control Sample Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Sample Name: Lab Control Sample **Instrument ID:**R-HPLC-08
Lab Code: RQ2411191-03 **File ID:**I:\ACQUDATA\HPLC08\DATA\090424\A0000204.D\

Analysis Method: Organic Acids **Analysis Lot:**853323

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ2411191-02	I:\ACQUDATA\HPLC08\DATA\090424 \A0000203.D\	09/04/24 22:05
Duplicate Lab Control Sample	RQ2411191-04	I:\ACQUDATA\HPLC08\DATA\090424 \A0000205.D\	09/04/24 23:09
OLN-RU011-F009	R2408139-001	I:\ACQUDATA\HPLC08\DATA\090424 \A0000206.D\	09/04/24 23:41
OLN-RU009-F009	R2408139-002	I:\ACQUDATA\HPLC08\DATA\090424 \A0000207.D\	09/05/24 00:13
OLN-RU-016-F009	R2408139-003	I:\ACQUDATA\HPLC08\DATA\090424 \A0000208.D\	09/05/24 00:44
OLN-FD001-D009	R2408139-004	I:\ACQUDATA\HPLC08\DATA\090424 \A0000209.D\	09/05/24 01:16
OLN-RU015-F009	R2408139-005	I:\ACQUDATA\HPLC08\DATA\090424 \A0000210.D\	09/05/24 01:48
OLN-RU010-F009	R2408139-007	I:\ACQUDATA\HPLC08\DATA\090424 \A0000211.D\	09/05/24 02:20
OLN-RU008-F009	R2408139-008	I:\ACQUDATA\HPLC08\DATA\090424 \A0000212.D\	09/05/24 02:51
OLN-RU008-F009MS	RQ2411191-06	I:\ACQUDATA\HPLC08\DATA\090424 \A0000214.D\	09/05/24 03:55
OLN-RU008-F009DMS	RQ2411191-07	I:\ACQUDATA\HPLC08\DATA\090424 \A0000215.D\	09/05/24 04:27
OLN-RU27A-F009	R2408139-010	I:\ACQUDATA\HPLC08\DATA\090424 \A0000216.D\	09/05/24 04:59
OLN-FB003-B009	R2408139-013	I:\ACQUDATA\HPLC08\DATA\090424 \A0000218.D\	09/05/24 06:02

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408139
Project: Olean OU3 12-Month Sampling/300-082 **Date Analyzed:** 09/16/24 18:39
Sample Matrix: Water

Lab Control Sample Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Sample Name: Lab Control Sample **Instrument ID:**R-HPLC-08
Lab Code: RQ2411683-03 **File ID:**I:\ACQUDATA\HPLC08\DATA\091624\A0000234.D\

Analysis Method: Organic Acids **Analysis Lot:**854397

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ2411683-02	I:\ACQUDATA\HPLC08\DATA\091624 \A0000233.D\	09/16/24 18:07
Duplicate Lab Control Sample	RQ2411683-04	I:\ACQUDATA\HPLC08\DATA\091624 \A0000235.D\	09/16/24 19:10
OLN-RU019-F009	R2408139-012	I:\ACQUDATA\HPLC08\DATA\091624 \A0000236.D\	09/16/24 19:42

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QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 12-Month Sampling/300-082
Sample Matrix: Water

Service Request: R2408139
Date Analyzed: 09/04/24

Duplicate Lab Control Sample Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Units:mg/L
Basis:NA

		Lab Control Sample RQ2411191-03			Duplicate Lab Control Sample RQ2411191-04					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Acetic Acid	Organic Acids	22.5	20.0	113	22.6	20.0	113	80-130	<1	30
Butanoic Acid (Butyric Acid)	Organic Acids	20.8	20.0	104	24.0	20.0	120	86-128	14	30
Propionic Acid	Organic Acids	20.4	20.0	102	20.4	20.0	102	63-153	<1	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 12-Month Sampling/300-082
Sample Matrix: Water

Service Request: R2408139
Date Analyzed: 09/16/24

Duplicate Lab Control Sample Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Units:mg/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2411683-03			RQ2411683-04					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Acetic Acid	Organic Acids	22.0	20.0	110	21.9	20.0	109	80-130	<1	30
Butanoic Acid (Butyric Acid)	Organic Acids	18.8	20.0	94	20.2	20.0	101	86-128	7	30
Propionic Acid	Organic Acids	20.8	20.0	104	20.6	20.0	103	63-153	<1	30

Metals

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Form 2

Calibration Verifications

Metals by EPA 6010D

Workorder

R2408139

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 12-Month Sampling

09/24/2024

ALS Environmental–Rochester Laboratory
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Form 2 - Calibration Verifications

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 12-Month Sampling	**R2408139**	

Metals by EPA 6010D (P)

R-ICP-AES-07_853035		ICV			CCV			CCV			CCV			CCV			CCV		
Units ug/L	**Run Date**	09/04/24			09/04/24			09/04/24			09/04/24			09/04/24			09/04/24		
	Run Time	15:14			20:09			20:38			21:10			21:42			22:15		
Analyte		Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q
Arsenic		0.992	**99**		0.986	**99**		0.983	**98**		0.981	**98**		0.973	**97**		0.971	**97**	
Iron		5.07	**101**		5.05	**101**		5.04	**101**		5.07	**101**		5.00	**100**		4.98	**100**	
Manganese		0.748	**100**		0.748	**100**		0.745	**99**		0.745	**99**		0.737	**98**		0.736	**98**	

Q - %Recovery Flag * - %Recovery (%R) Outside Limits

QC ID	%R Limits	
CCV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn
ICV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn
ICV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn

Form 2 - Calibration Verifications

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 12-Month Sampling	**R2408139**	

Metals by EPA 6010D (P)

R-ICP-AES-07_853309		ICV			CCV			CCV			CCV			CCV		
Units ug/L	**Run Date**	09/06/24			09/06/24			09/06/24			09/06/24			09/06/24		
	Run Time	15:24			16:47			17:11			17:48			18:16		
Analyte		Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q
Arsenic		1.00	**100**		0.986	**99**		0.969	**97**		0.960	**96**		0.957	**96**	
Iron		5.04	**101**		5.00	**100**		4.90	**98**		4.86	**97**		4.81	**96**	
Manganese		0.747	**100**		0.741	**99**		0.729	**97**		0.723	**96**		0.718	**96**	

Q - %Recovery Flag * - %Recovery (%R) Outside Limits

QC ID	%R Limits	
CCV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn
ICV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn
ICV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn

Form 3

Blanks

Metals by EPA 6010D

Workorder

R2408139

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 12-Month Sampling

09/24/2024

ALS Environmental–Rochester Laboratory
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Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Form 3 - Blanks

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 12-Month Sampling	**R2408139**	

Metals by EPA 6010D (P)

R-ICP-AES-07_853035			ICB		CCB		CCB		CCB		CCB		CCB	
		Run Date	09/04/24		09/04/24		09/04/24		09/04/24		09/04/24		09/04/24	
		Run Time	15:18		20:12		20:41		21:13		21:46		22:18	
		Units	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Analyte	DL	LOQ	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Arsenic	6	10	6	U	6	U	6	U	6	U	6	U	6	U
Iron	70	100	70	U	70	U	70	U	70	U	70	U	70	U
Manganese	4	10	4	U	4	U	4	U	4	U	4	U	4	U

Q - Result Flag * - Result Outside Limits

Form 3 - Blanks

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 12-Month Sampling	**R2408139**	

Metals by EPA 6010D (P)

R-ICP-AES-07_853309			ICB		CCB		CCB		CCB		CCB		
		Run Date	09/06/24		09/06/24		09/06/24		09/06/24		09/06/24		
		Run Time	15:27		16:50		17:14		17:51		18:19		
		Units	ug/L		ug/L		ug/L		ug/L		ug/L		
Analyte	DL	LOQ	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	
Arsenic	6	10	6	U	6	U	6	U	6	U	6	U	
Iron	70	100	70	U	70	U	70	U	70	U	70	U	
Manganese	4	10	4	U	4	U	4	U	4	U	4	U	

Form 5A

Matrix Spike Sample Recovery

Metals by EPA 6010D

Workorder

R2408139

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 12-Month Sampling

09/24/2024

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Form 5A - Matrix Spike Sample Recovery

Client Civil & Environmental Consultants, Incorporated (CEC)

Project Olean OU3 12-Month Sampling

Workorder **R2408139**

Metals by EPA 6010D (P)

RunID R-ICP-AES-07-853035

OLN-RU008-F009 (R2408139-008)				R2408139-008MS				R2408139-008DMS						
Sample Matrix Water		**Analysis Batch** 853035		**Run Date** 09/04/24				**Run Date** 09/04/24						
Result Units ug/L		**Prep Batch** 444156		**Run Time** 20:51				**Run Time** 20:54						
Prep Method EPA 3005A/3010A		**Prep Date** 09/03/2024		**Prep Amt** 50 mL				**Prep Amt** 50 mL						
Analyte	%R Limits	DF	Sample Result		MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Arsenic, Dissolved	75-125	1	10	U	40	40	**100**		38	40	**95**		20	**5**	
Iron, Dissolved	75-125	1	100	U	1070	1000	**107**		990	1000	**99**		20	**8**	
Manganese, Dissolved	75-125	1	159		647	500	**98**		631	500	**94**		20	**2**	

RPD Relative Percent Difference **%R** %Recovery **Q** %R or RPD Flag **NC** Not Calculated **DF** Dilution Factor

MS\D Matrix Spike \Duplicate **OOL** Out of Limits * %R or RPD OOL **NS** Not Spiked **Amt** weight or volume

Form 5B

Post-Digestion Spike Sample Recovery

Metals by EPA 6010D

Workorder

R2408139

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 12-Month Sampling

09/24/2024

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Form 5B - Post-Digestion Spike Sample Recovery

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 12-Month Sampling	**R2408139**	

Metals by EPA 6010D (P)

OLN-RU008-F009(SDL) (PDS)	Matrix	Units	DF	Analysis Date
RQ2411018-13	Water	ug/L	1	09/04/24 20:57:00

Analyte	Spike Added	Sample Result	Q	PDS Result	Q	%R	Q	%R Limits
Arsenic, Dissolved	40	10	U	37		93		75-125
Iron, Dissolved	1000	100	U	980		98		75-125
Manganese, Dissolved	500	159		619		92		75-125

- %Recovery Flag * - %Recovery Outside Limits NC - Not Calculated NS - Not Spiked

Form 7

Laboratory Control Sample

Metals by EPA 6010D

Workorder

R2408139

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 12-Month Sampling

09/24/2024

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Form 7 - Laboratory Control Sample

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 12-Month Sampling	**R2408139**	

Metals by EPA 6010D (P)

RunID
R-ICP-AES-07-853035

R-ICP-AES-07_853035			R2408139-LCS		
Spike Matrix Water	**Analysis Batch** ug/L		**Run Date** 09/04/24		
Result Units 09/03/24	**Prep Batch** 853035		**Run Time** 20:18		
Prep Method EPA 3005A/3010A	**Prep Date** 444156		**Prep Amt** 50 mL		

Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q
Arsenic	80-120	40	37	**92**	
Iron	80-120	1000	991	**99**	
Manganese	80-120	500	478	**96**	

Form 9

ICP Serial Dilutions

Metals by EPA 6010D

Workorder

R2408139

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 12-Month Sampling

09/24/2024

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Form 9 - ICP Serial Dilutions

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 12-Month Sampling	**R2408139**	

Metals by EPA 6010D (P)

OLN-RU008-F009(SDL) (SD)	**Matrix**	**Analysis Date**	**Units**
RQ2411018-14	Water	09/04/24 21:00:00	ug/L

Analyte	Dilution	DL	LOQ	Sample Result	SD Result	Diff	Q	DL x 50
Arsenic, Dissolved	5	6	10	10 U	50 U	NC		300
Iron, Dissolved	5	70	100	100 U	500 U	NC		3500
Manganese, Dissolved	5	4	10	159	162	NC		200

NC - Sample and/or Serial Dilution result(s) do not meet criteria for evaluation. %Diff Not Calculated.

Form 10

Detection Limits

Metals by EPA 6010D

Workorder

R2408139

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 12-Month Sampling

09/24/2024

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Form 10 - Detection Limits

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 12-Month Sampling	**R2408139**	

Metals by EPA 6010D (P)

Analyte	CAS	Units	DL	LOQ	Prep Method	Leach Method
Arsenic, Dissolved	7440-38-2	ug/L	6	10	EPA 3005A/3010A	NA
Iron, Dissolved	7439-89-6	ug/L	70	100	EPA 3005A/3010A	NA
Manganese, Dissolved	7439-96-5	ug/L	4	10	EPA 3005A/3010A	NA

Form 12

Linear Ranges

Metals by EPA 6010D

Workorder

R2408139

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 12-Month Sampling

09/24/2024

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Form 12 - Linear Ranges

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 12-Month Sampling	**R2408139**	

Metals by EPA 6010D (P)

Analyte	Linear Range	Units
AG 328	2	mg/L
AL 237	500	mg/L
AS 188	4	mg/L
B 249	50	mg/L
BA 233	40	mg/L
BE 313	1	mg/L
CA 227	250	mg/L
CD 226	2	mg/L
CO 228	10	mg/L
CR 267	10	mg/L
CU 324	20	mg/L
FE 259	100	mg/L
K 766	100	mg/L
MG 279	500	mg/L
MN 257	10	mg/L
MO 202	10	mg/L
NA 589	250	mg/L
NI 231	8	mg/L
PB 220	10	mg/L
SB 206	10	mg/L
SE 196	10	mg/L
SI 252	20	mg/L
SN 189	20	mg/L
SR 421	10	mg/L
TI 337	10	mg/L
TL 191	4	mg/L
V 292	10	mg/L
ZN 206	10	mg/L

right solutions.
right partner.

Analysis Run Log

Metals by EPA 6010D

Workorder

R2408139

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 12-Month Sampling

09/24/2024

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Form 14 - Analysis Run Log

Client Civil & Environmental Consultants, Incorporated (CEC)

Project Olean OU3 12-Month Sampling

Workorder **R2408139**

Metals by EPA 6010D (P)

R-ICP-AES-07_853035	Instrument ID	Start Date	End Date
	R-ICP-AES-07	09/04/24	09/04/24

Time	Type	Sample ID	Dilution	Analytes
15:14	ICV	Initial Calibraton Verification	1	As,Fe,Mn
15:18	ICB	Initial Calibration Blank	1	As,Fe,Mn
20:09	CCV	Continuing Calibration Verification	1	As,Fe,Mn
20:12	CCB	Continuing Calibration Blank	1	As,Fe,Mn
20:15	MB	MB-R2408139-MB Method Blank	1	As,Fe,Mn
20:18	LCS	LCS-R2408139-LCS Lab Control Sample	1	As,Fe,Mn
20:22	SMPL	OLN-RU011-F009	1	As,Fe,Mn
20:25	SMPL	OLN-RU009-F009	1	As,Fe,Mn
20:34	SMPL	OLN-RU015-F009	1	As,Fe,Mn
20:38	CCV	Continuing Calibration Verification	1	As,Fe,Mn
20:41	CCB	Continuing Calibration Blank	1	As,Fe,Mn
20:44	SMPL	OLN-RU010-F009	1	Fe,Mn
20:47	SMPL	OLN-RU008-F009	1	As,Fe,Mn
20:51	MS	OLN-RU008-F009	1	As,Fe,Mn
20:54	DMS	OLN-RU008-F009	1	As,Fe,Mn
20:57	PS	OLN-RU008-F009	1	As,Fe,Mn
21:00	SD	OLN-RU008-F009	5	As,Fe,Mn
21:10	CCV	Continuing Calibration Verification	1	As,Fe,Mn
21:13	CCB	Continuing Calibration Blank	1	As,Fe,Mn
21:16	SMPL	OLN-FB003-B009	1	As,Fe,Mn
21:42	CCV	Continuing Calibration Verification	1	As,Fe,Mn
21:46	CCB	Continuing Calibration Blank	1	As,Fe,Mn
22:15	CCV	Continuing Calibration Verification	1	As,Fe,Mn
22:18	CCB	Continuing Calibration Blank	1	As,Fe,Mn

Form 14 - Analysis Run Log

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 12-Month Sampling	**R2408139**	

Metals by EPA 6010D (P)

R-ICP-AES-07_853309	Instrument ID	Start Date	End Date
	R-ICP-AES-07	09/06/24	09/06/24

Time	Type	Sample ID	Dilution	Analytes
15:24	ICV	Initial Calibraton Verification	1	As,Fe,Mn
15:27	ICB	Initial Calibration Blank	1	As,Fe,Mn
16:47	CCV	Continuing Calibration Verification	1	As,Fe,Mn
16:50	CCB	Continuing Calibration Blank	1	As,Fe,Mn
17:11	CCV	Continuing Calibration Verification	1	As,Fe,Mn
17:14	CCB	Continuing Calibration Blank	1	As,Fe,Mn
17:23	SMPL	OLN-RU-016-F009	3	As,Fe,Mn
17:27	SMPL	OLN-FD001-D009	3	As,Fe,Mn
17:30	SMPL	OLN-RU010-F009	1	As
17:33	SMPL	OLN-RU27A-F009	5	As,Fe,Mn
17:36	SMPL	OLN-RU019-F009	5	As,Fe,Mn
17:48	CCV	Continuing Calibration Verification	1	As,Fe,Mn
17:51	CCB	Continuing Calibration Blank	1	As,Fe,Mn
18:16	CCV	Continuing Calibration Verification	1	As,Fe,Mn
18:19	CCB	Continuing Calibration Blank	1	As,Fe,Mn

General Chemistry

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R2408139-MB1		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	5.0	U	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	0.20	U	mg/L	0.20	0.04	1	09/15/24 10:38	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R2408139-MB2		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	5.0	U	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	0.20	U	mg/L	0.20	0.04	1	09/15/24 13:08	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R2408139-MB3		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	5.0	U	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	0.20	U	mg/L	0.20	0.04	1	09/15/24 17:30	

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QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 12-Month Sampling/300-082
Sample Matrix: Water

Service Request:R2408139
Date Collected:08/21/24
Date Received:08/23/24
Date Analyzed:09/06/24 - 09/15/24

Duplicate Matrix Spike Summary
General Chemistry Parameters

Sample Name: OLN-RU008-F009
Lab Code: R2408139-008

Units:mg/L
Basis:NA

			Matrix Spike				Duplicate Matrix Spike				
			R2408139-008MS				R2408139-008DMS				
Analyte Name	**Method**	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Chemical Oxygen Demand, Total	Hach 8000 (1979)	6.0	30.8	25.0	99	29.1	25.0	93	90-110	6	20
Sulfate	300.0	40.5	58.3	20.0	89 *	58.0	20.0	87 *	90-110	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 12-Month Sampling/300-082
Sample Matrix: Water

Service Request: R2408139
Date Analyzed: 09/06/24 - 09/15/24

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2408139-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chemical Oxygen Demand, Total	Hach 8000 (1979)	512	500	102	90-110
Sulfate	300.0	2.02	2.00	101	90-110

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 12-Month Sampling/300-082
Sample Matrix: Water

Service Request: R2408139
Date Analyzed: 09/06/24 - 09/15/24

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2408139-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chemical Oxygen Demand, Total	Hach 8000 (1979)	508	500	102	90-110
Sulfate	300.0	2.01	2.00	100	90-110

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 12-Month Sampling/300-082
Sample Matrix: Water

Service Request: R2408139
Date Analyzed: 09/06/24 - 09/15/24

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2408139-LCS3

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chemical Oxygen Demand, Total	Hach 8000 (1979)	51.1	50.0	102	90-110
Sulfate	300.0	2.01	2.00	101	90-110

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408139
Project: Olean OU3 12-Month Sampling/300-082

Continuing Calibration Blank (CCB) Summary

Chemical Oxygen Demand, Total

Analysis Method: Hach 8000 (1979) **Units:**mg/L

	Analysis Lot	Lab Code	Date Analyzed	MRL	MDL	Result	Q
CCB1	853294	RQ2411296-02	09/06/24 14:00	5.0	3.8	5.0	U
CCB2	853294	RQ2411296-06	09/06/24 14:00	5.0	3.8	5.0	U
CCB3	853294	RQ2411296-12	09/06/24 14:00	5.0	3.8	5.0	U
CCB4	853295	RQ2411298-02	09/06/24 14:00	5.0	3.8	5.0	U
CCB5	853295	RQ2411298-08	09/06/24 14:00	5.0	3.8	5.0	U
CCB6	853296	RQ2411300-02	09/06/24 14:00	5.0	3.8	5.0	U
CCB7	853296	RQ2411300-06	09/06/24 14:00	5.0	3.8	5.0	U
CCB8	853296	RQ2411300-12	09/06/24 14:00	5.0	3.8	5.0	U
CCB9	853296	RQ2411300-16	09/06/24 14:00	5.0	3.8	5.0	U

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408139
Project: Olean OU3 12-Month Sampling/300-082

Continuing Calibration Blank (CCB) Summary
Sulfate

Analysis Method: 300.0 **Units:**mg/L

	Analysis Lot	Lab Code	Date Analyzed	MRL	MDL	Result	Q
CCB1	854128	RQ2411715-02	09/15/24 10:38	0.20	0.04	0.20	U
CCB2	854128	RQ2411715-06	09/15/24 11:53	0.20	0.04	0.20	U
CCB3	854128	RQ2411715-07	09/15/24 13:08	0.20	0.04	0.20	U
CCB4	854129	RQ2411716-01	09/15/24 13:08	0.20	0.04	0.20	U
CCB5	854129	RQ2411716-06	09/15/24 14:23	0.20	0.04	0.20	U
CCB6	854129	RQ2411716-07	09/15/24 15:26	0.20	0.04	0.20	U
CCB7	854121	RQ2411717-02	09/15/24 17:30	0.20	0.04	0.20	U
CCB8	854121	RQ2411717-06	09/15/24 18:50	0.20	0.04	0.20	U
CCB9	854121	RQ2411717-07	09/15/24 20:38	0.20	0.04	0.20	U

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408139
Project: Olean OU3 12-Month Sampling/300-082

Continuing Calibration Verification (CCV) Summary

Chemical Oxygen Demand, Total

Analysis Method: Hach 8000 (1979) **Units:** mg/L

	Analysis Lot	Lab Code	Date Analyzed	True Value	Measured Value	Percent Recovery	Acceptance Limits
CCV1	853294	RQ2411296-01	09/06/24 14:00	500	512	102	90-110
CCV2	853294	RQ2411296-05	09/06/24 14:00	500	510	102	90-110
CCV3	853294	RQ2411296-11	09/06/24 14:00	500	508	102	90-110
CCV4	853295	RQ2411298-01	09/06/24 14:00	500	508	102	90-110
CCV5	853295	RQ2411298-07	09/06/24 14:00	500	510	102	90-110
CCV6	853296	RQ2411300-01	09/06/24 14:00	50.0	51.1	102	90-110
CCV7	853296	RQ2411300-05	09/06/24 14:00	50.0	51.4	103	90-110
CCV8	853296	RQ2411300-11	09/06/24 14:00	50.0	47.3	95	90-110
CCV9	853296	RQ2411300-15	09/06/24 14:00	50.0	52.1	104	90-110

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408139
Project: Olean OU3 12-Month Sampling/300-082

Continuing Calibration Verification (CCV) Summary

Sulfate

Analysis Method: 300.0 **Units:** mg/L

	Analysis Lot	Lab Code	Date Analyzed	True Value	Measured Value	Percent Recovery	Acceptance Limits
CCV1	854128	RQ2411715-01	09/15/24 10:32	4.00	3.98	99	90-110
CCV2	854128	RQ2411715-05	09/15/24 11:47	4.00	3.97	99	90-110
CCV3	854128	RQ2411715-08	09/15/24 13:02	4.00	3.95	99	90-110
CCV4	854129	RQ2411716-02	09/15/24 13:02	4.00	3.95	99	90-110
CCV5	854129	RQ2411716-05	09/15/24 14:17	4.00	3.99	100	90-110
CCV6	854129	RQ2411716-08	09/15/24 15:20	4.00	4.01	100	90-110
CCV7	854121	RQ2411717-01	09/15/24 17:24	4.00	4.05	101	90-110
CCV8	854121	RQ2411717-05	09/15/24 18:44	4.00	4.01	100	90-110
CCV9	854121	RQ2411717-08	09/15/24 20:31	4.00	3.97	99	90-110

Raw Data

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 18:08
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU011-F009	**Units:**	ug/L
Lab Code:	R2408139-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/30/24 11:35	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	08/30/24 11:35	
Vinyl Chloride	**1.5**	1.0	0.20	1	08/30/24 11:35	
cis-1,2-Dichloroethene	**6.4**	1.0	0.23	1	08/30/24 11:35	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	08/30/24 11:35	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	08/30/24 11:35	
Dibromofluoromethane	102	80 - 116	08/30/24 11:35	
Toluene-d8	103	87 - 121	08/30/24 11:35	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 14:17
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU009-F009	**Units:**	ug/L
Lab Code:	R2408139-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/30/24 11:59	
Trichloroethene (TCE)	**0.46 J**	1.0	0.20	1	08/30/24 11:59	
Vinyl Chloride	1.0 U	1.0	0.20	1	08/30/24 11:59	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	08/30/24 11:59	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	08/30/24 11:59	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	08/30/24 11:59	
Dibromofluoromethane	101	80 - 116	08/30/24 11:59	
Toluene-d8	104	87 - 121	08/30/24 11:59	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 16:05
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU-016-F009	**Units:**	ug/L
Lab Code:	R2408139-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/30/24 12:22	
Trichloroethene (TCE)	**4.9**	1.0	0.20	1	08/30/24 12:22	
Vinyl Chloride	**1.6**	1.0	0.20	1	08/30/24 12:22	
cis-1,2-Dichloroethene	**27**	1.0	0.23	1	08/30/24 12:22	
trans-1,2-Dichloroethene	**0.62 J**	1.0	0.20	1	08/30/24 12:22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	08/30/24 12:22	
Dibromofluoromethane	100	80 - 116	08/30/24 12:22	
Toluene-d8	104	87 - 121	08/30/24 12:22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 20:00
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FD001-D009	**Units:**	ug/L
Lab Code:	R2408139-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/31/24 15:12	
Trichloroethene (TCE)	**4.6**	1.0	0.20	1	08/31/24 15:12	
Vinyl Chloride	**1.7**	1.0	0.20	1	08/31/24 15:12	
cis-1,2-Dichloroethene	**25**	1.0	0.23	1	08/31/24 15:12	
trans-1,2-Dichloroethene	**0.65 J**	1.0	0.20	1	08/31/24 15:12	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	08/31/24 15:12	
Dibromofluoromethane	102	80 - 116	08/31/24 15:12	
Toluene-d8	105	87 - 121	08/31/24 15:12	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 08:42
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU015-F009	**Units:**	ug/L
Lab Code:	R2408139-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/31/24 14:25	
Trichloroethene (TCE)	**1.4**	1.0	0.20	1	08/31/24 14:25	
Vinyl Chloride	**0.26 J**	1.0	0.20	1	08/31/24 14:25	
cis-1,2-Dichloroethene	**1.2**	1.0	0.23	1	08/31/24 14:25	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	08/31/24 14:25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	08/31/24 14:25	
Dibromofluoromethane	103	80 - 116	08/31/24 14:25	
Toluene-d8	105	87 - 121	08/31/24 14:25	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 10:30
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU010-F009	**Units:**	ug/L
Lab Code:	R2408139-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	**12**	1.0	0.21	1	08/31/24 15:35	
Trichloroethene (TCE)	**22**	1.0	0.20	1	08/31/24 15:35	
Vinyl Chloride	**0.68 J**	1.0	0.20	1	08/31/24 15:35	
cis-1,2-Dichloroethene	**81**	1.0	0.23	1	08/31/24 15:35	
trans-1,2-Dichloroethene	**0.55 J**	1.0	0.20	1	08/31/24 15:35	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	08/31/24 15:35	
Dibromofluoromethane	96	80 - 116	08/31/24 15:35	
Toluene-d8	97	87 - 121	08/31/24 15:35	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 12:55
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU008-F009	**Units:**	ug/L
Lab Code:	R2408139-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	**0.51**	**J**	1.0	0.21	1	08/31/24 15:59	
Trichloroethene (TCE)	**200**		1.0	0.20	1	08/31/24 15:59	
Vinyl Chloride	**0.55**	**J**	1.0	0.20	1	08/31/24 15:59	
cis-1,2-Dichloroethene	**9.5**		1.0	0.23	1	08/31/24 15:59	
trans-1,2-Dichloroethene	**0.21**	**J**	1.0	0.20	1	08/31/24 15:59	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	08/31/24 15:59	
Dibromofluoromethane	100	80 - 116	08/31/24 15:59	
Toluene-d8	104	87 - 121	08/31/24 15:59	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 16:20
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU27A-F009	**Units:**	ug/L
Lab Code:	R2408139-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/31/24 14:48	
Trichloroethene (TCE)	**0.24 J**	1.0	0.20	1	08/31/24 14:48	
Vinyl Chloride	**0.44 J**	1.0	0.20	1	08/31/24 14:48	
cis-1,2-Dichloroethene	**1.6**	1.0	0.23	1	08/31/24 14:48	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	08/31/24 14:48	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	08/31/24 14:48	
Dibromofluoromethane	100	80 - 116	08/31/24 14:48	
Toluene-d8	102	87 - 121	08/31/24 14:48	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-TB002-T009	**Units:**	ug/L
Lab Code:	R2408139-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/31/24 13:16	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	08/31/24 13:16	
Vinyl Chloride	1.0 U	1.0	0.20	1	08/31/24 13:16	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	08/31/24 13:16	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	08/31/24 13:16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	08/31/24 13:16	
Dibromofluoromethane	100	80 - 116	08/31/24 13:16	
Toluene-d8	102	87 - 121	08/31/24 13:16	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 08:40
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU019-F009	**Units:**	ug/L
Lab Code:	R2408139-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	2.0 U	2.0	0.42	2	08/31/24 16:22	
Trichloroethene (TCE)	**400 E**	2.0	0.40	2	08/31/24 16:22	
Vinyl Chloride	**41**	2.0	0.40	2	08/31/24 16:22	
cis-1,2-Dichloroethene	**420 E**	2.0	0.46	2	08/31/24 16:22	
trans-1,2-Dichloroethene	**5.2**	2.0	0.40	2	08/31/24 16:22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	08/31/24 16:22	
Dibromofluoromethane	103	80 - 116	08/31/24 16:22	
Toluene-d8	104	87 - 121	08/31/24 16:22	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 08:40
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU019-F009	**Units:**	ug/L
Lab Code:	R2408139-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	5.0	U	5.0	1.1	5	09/01/24 14:51	
Trichloroethene (TCE)	**390**	**D**	5.0	1.0	5	09/01/24 14:51	
Vinyl Chloride	**39**	**D**	5.0	1.0	5	09/01/24 14:51	
cis-1,2-Dichloroethene	**420**	**D**	5.0	1.2	5	09/01/24 14:51	
trans-1,2-Dichloroethene	**4.8**	**DJ**	5.0	1.0	5	09/01/24 14:51	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	09/01/24 14:51	
Dibromofluoromethane	101	80 - 116	09/01/24 14:51	
Toluene-d8	103	87 - 121	09/01/24 14:51	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 10:01
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FB003-B009	**Units:**	ug/L
Lab Code:	R2408139-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

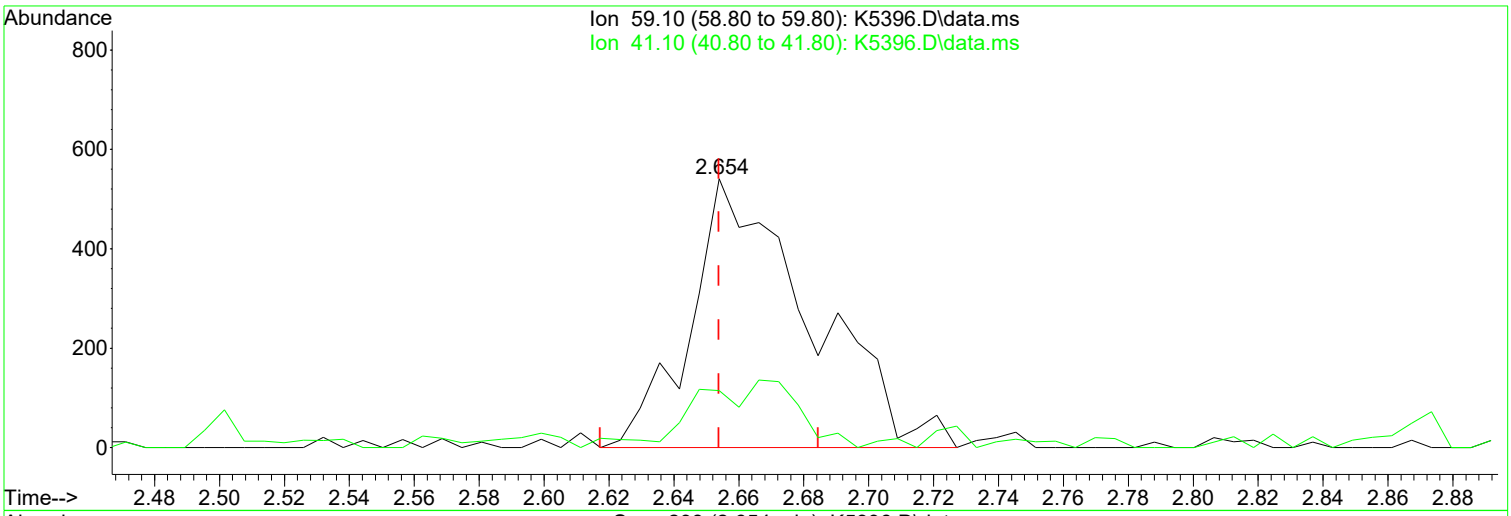
Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/31/24 13:39	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	08/31/24 13:39	
Vinyl Chloride	1.0 U	1.0	0.20	1	08/31/24 13:39	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	08/31/24 13:39	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	08/31/24 13:39	

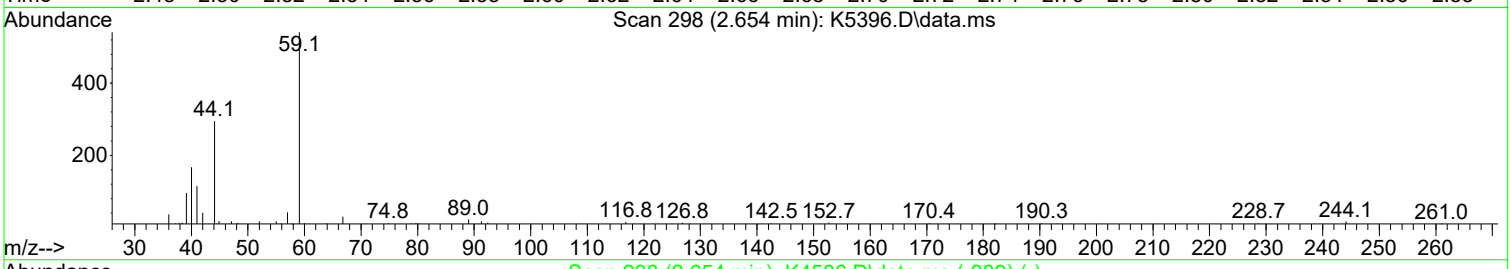
Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	08/31/24 13:39	
Dibromofluoromethane	102	80 - 116	08/31/24 13:39	
Toluene-d8	102	87 - 121	08/31/24 13:39	

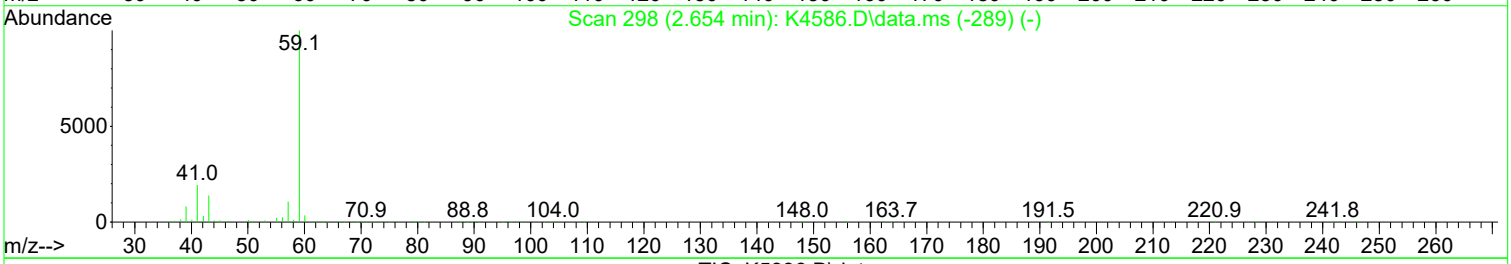
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5396.D
Acq On : 30 Aug 2024 11:35 am
Operator : F.NAEGLER
Sample : R2408139-001
Misc : CEC 26473 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 30 12:06:43 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5396.D\data.ms

(23) TBA

2.654min (+ 0.000) 1.27 ug/L m

response 1390

Ion	Exp%	Act%
59.10	100.00	100.00
41.10	19.70	21.26
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

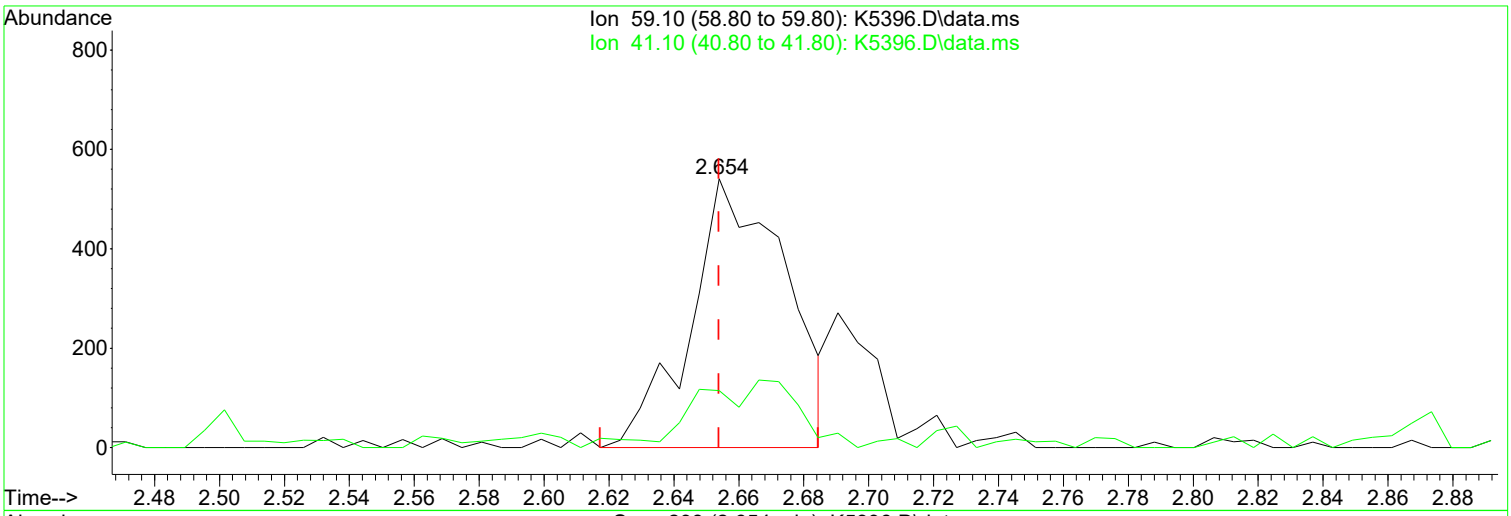
Poor integration.

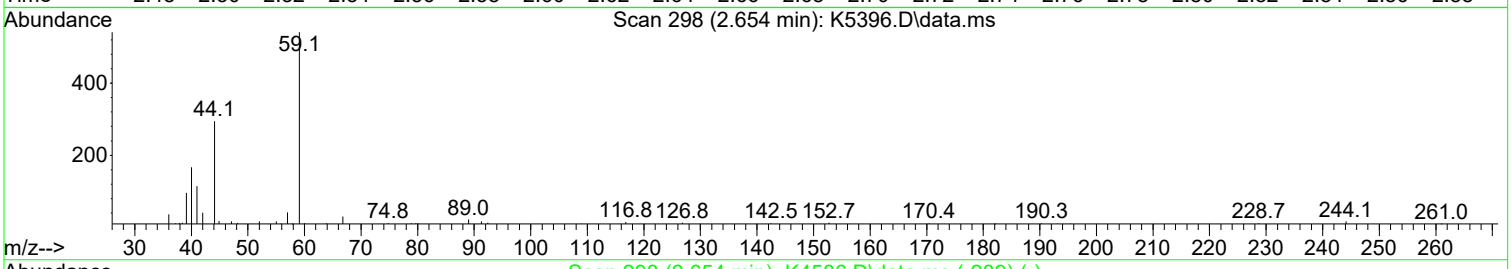
09/03/24

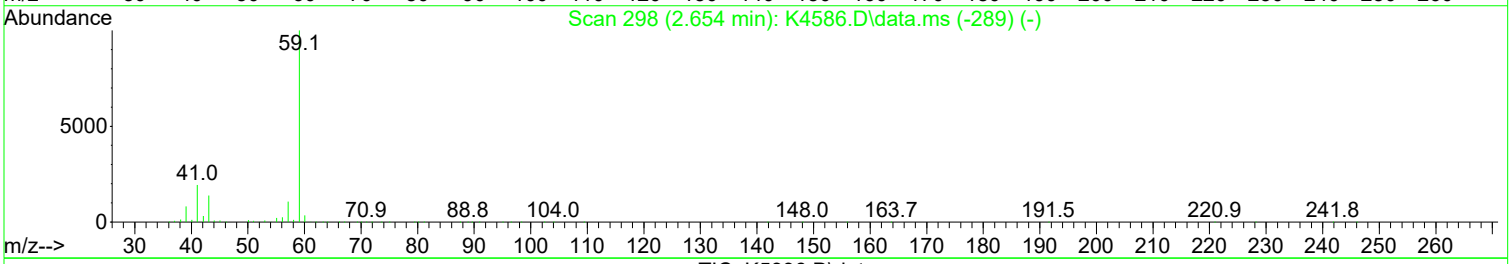
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5396.D
Acq On : 30 Aug 2024 11:35 am
Operator : F.NAEGLER
Sample : R2408139-001
Misc : CEC 26473 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 30 12:06:43 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5396.D\data.ms

(23) TBA

2.654min (+ 0.000) 1.01 ug/L

response 1104

Ion	Exp%	Act%
59.10	100.00	100.00
41.10	19.70	21.26
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/03/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5396.D
Acq On : 30 Aug 2024 11:35 am
Operator : F.NAEGLER
Sample : R2408139-001
Misc : CEC 26473 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 30 12:06:43 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

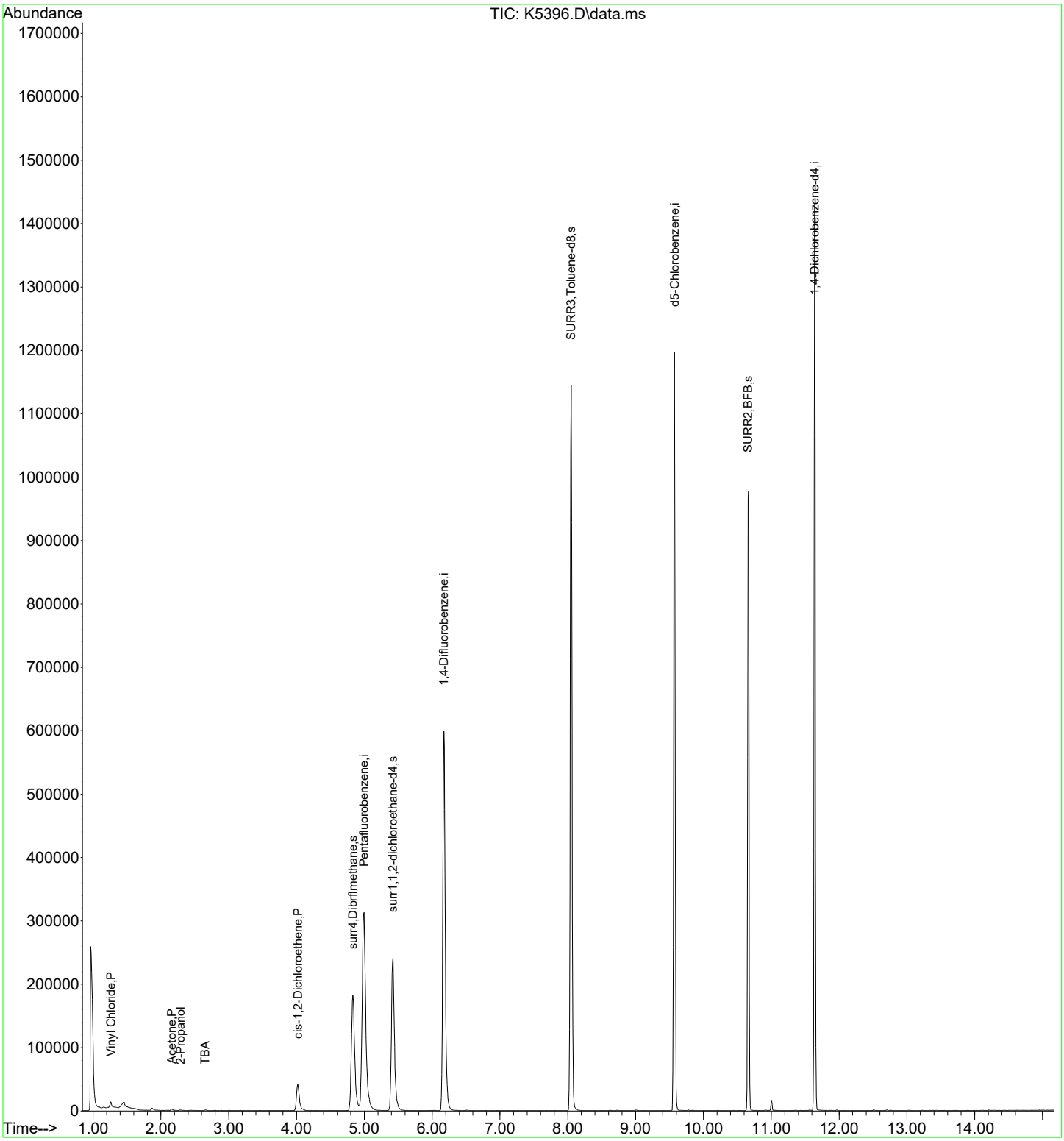
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.995	168	373773	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.172	114	620523	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.573	117	557418	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	256135	50.00	ug/L	# 0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.830	113	197520	51.03	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 102.06%			
47) surr1,1,2-dichloroetha...	5.422	65	272587	51.52	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 103.04%			
64) SURR3,Toluene-d8	8.049	98	733144	51.61	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 103.22%			
69) SURR2,BFB	10.659	95	277311	49.65	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.30%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.264	62	7764	1.492	ug/L	93
16) Acetone	2.160	43	3082	1.030	ug/L	81
17) 2-Propanol	2.288	45	1380	2.339	ug/L	85
23) TBA	2.654	59	1390m	1.271	ug/L	
33) cis-1,2-Dichloroethene	4.020	96	25911	6.409	ug/L	97

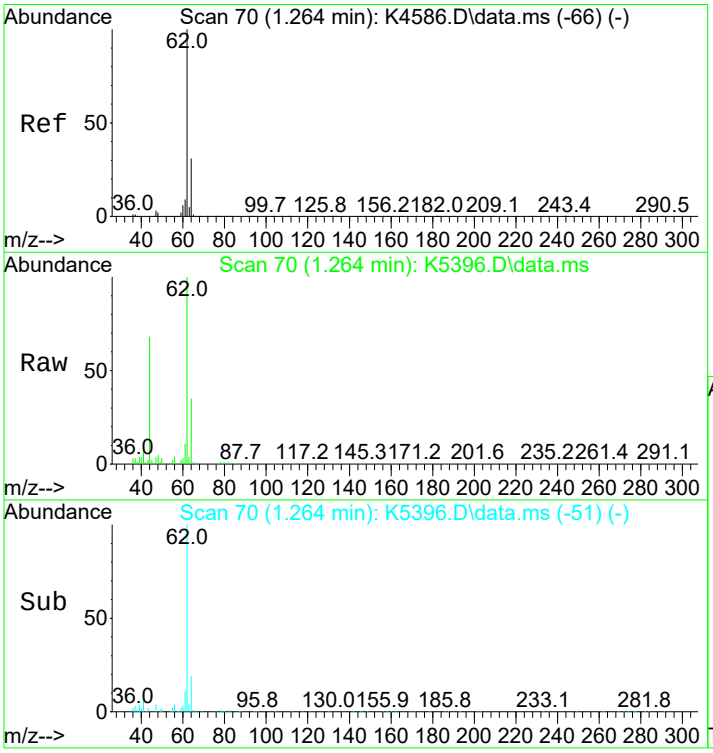
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5396.D
Acq On : 30 Aug 2024 11:35 am
Operator : F.NAEGLER
Sample : R2408139-001
Misc : CEC 26473 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 30 12:06:43 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

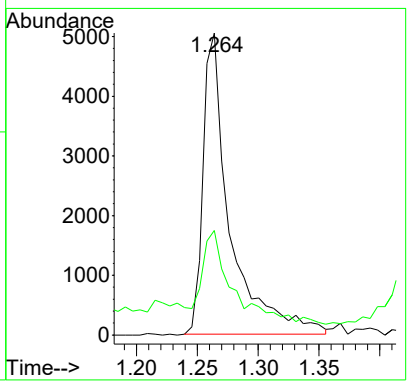


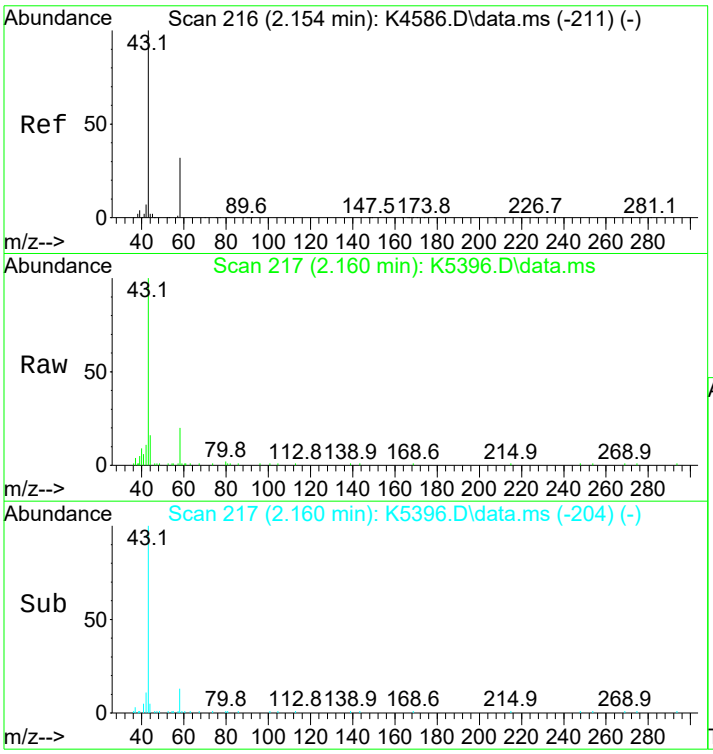


#5
Vinyl Chloride
Concen: 1.49 ug/L
RT: 1.264 min Scan# 70
Delta R.T. 0.000 min
Lab File: K5396.D
Acq: 30 Aug 2024 11:35 am

Tgt Ion: 62 Resp: 7764

Ion	Ratio	Lower	Upper
62	100		
64	34.7	10.9	50.9

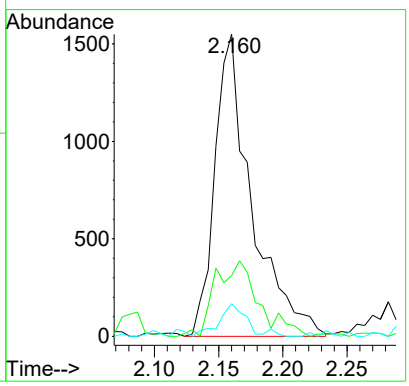


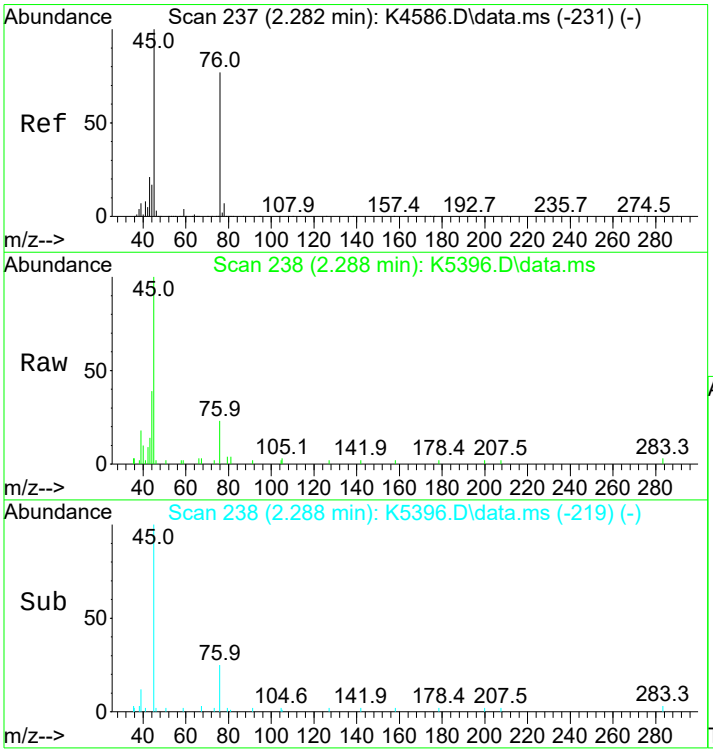


#16
Acetone
Concen: 1.03 ug/L
RT: 2.160 min Scan# 217
Delta R.T. 0.006 min
Lab File: K5396.D
Acq: 30 Aug 2024 11:35 am

Tgt Ion: 43 Resp: 3082

Ion	Ratio	Lower	Upper
43	100		
58	20.1	11.5	51.5
42	10.8	0.0	27.3

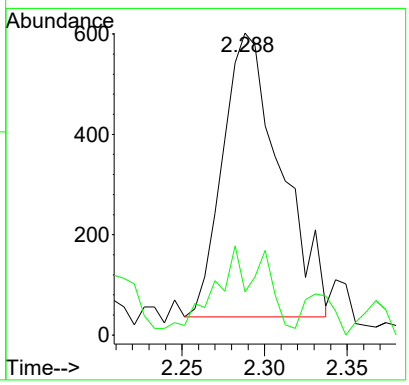


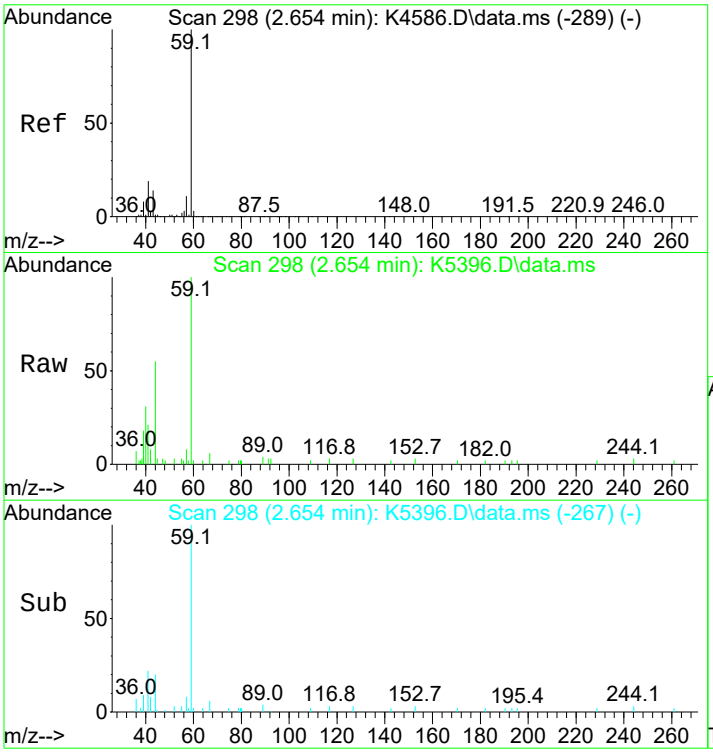


#17
2-Propanol
Concen: 2.34 ug/L
RT: 2.288 min Scan# 238
Delta R.T. 0.006 min
Lab File: K5396.D
Acq: 30 Aug 2024 11:35 am

Tgt Ion: 45 Resp: 1380

Ion	Ratio	Lower	Upper
45	100		
43	14.3	1.4	41.4

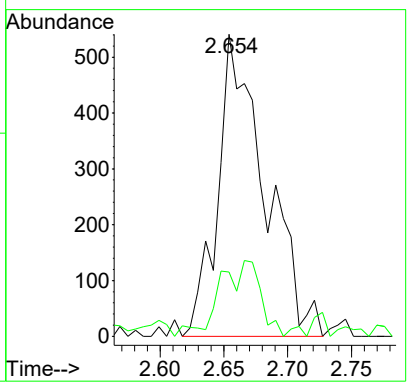


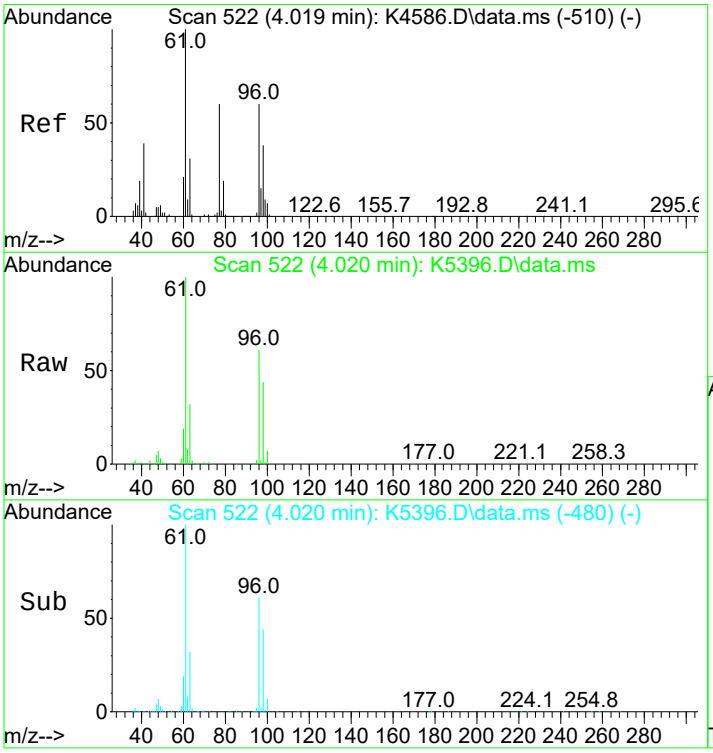


#23
TBA
Concen: 1.27 ug/L m
RT: 2.654 min Scan# 298
Delta R.T. 0.000 min
Lab File: K5396.D
Acq: 30 Aug 2024 11:35 am

Tgt Ion: 59 Resp: 1390

Ion	Ratio	Lower	Upper
59	100		
41	21.3	0.0	39.7

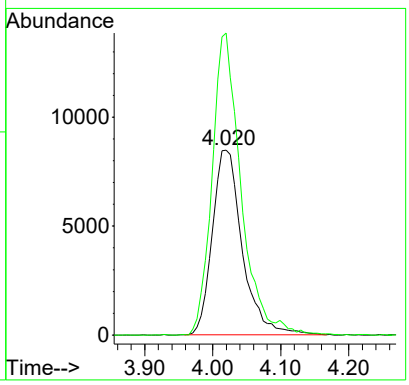




#33
cis-1,2-Dichloroethene
Concen: 6.41 ug/L
RT: 4.020 min Scan# 522
Delta R.T. 0.000 min
Lab File: K5396.D
Acq: 30 Aug 2024 11:35 am

Tgt Ion: 96 Resp: 25911

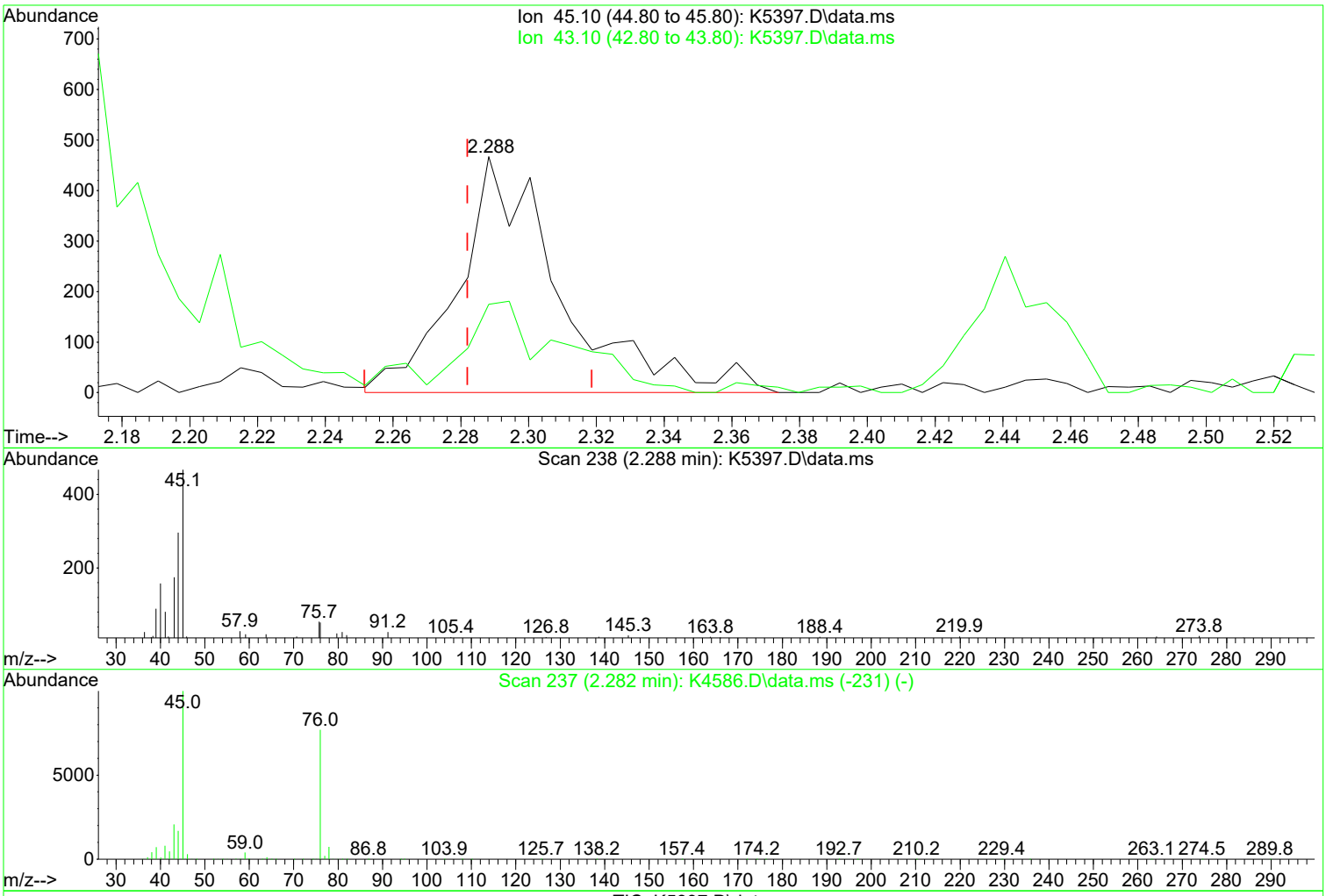
Ion	Ratio	Lower	Upper
96	100		
61	163.3	147.9	187.9



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5397.D
Acq On : 30 Aug 2024 11:59 am
Operator : F.NAEGLER
Sample : R2408139-002
Misc : CEC 26473 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 30 12:20:16 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration



TIC: K5397.D\data.ms

(17) 2-Propanol

2.288min (+ 0.006) 1.71 ug/L m

response 987

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	21.40	37.47
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

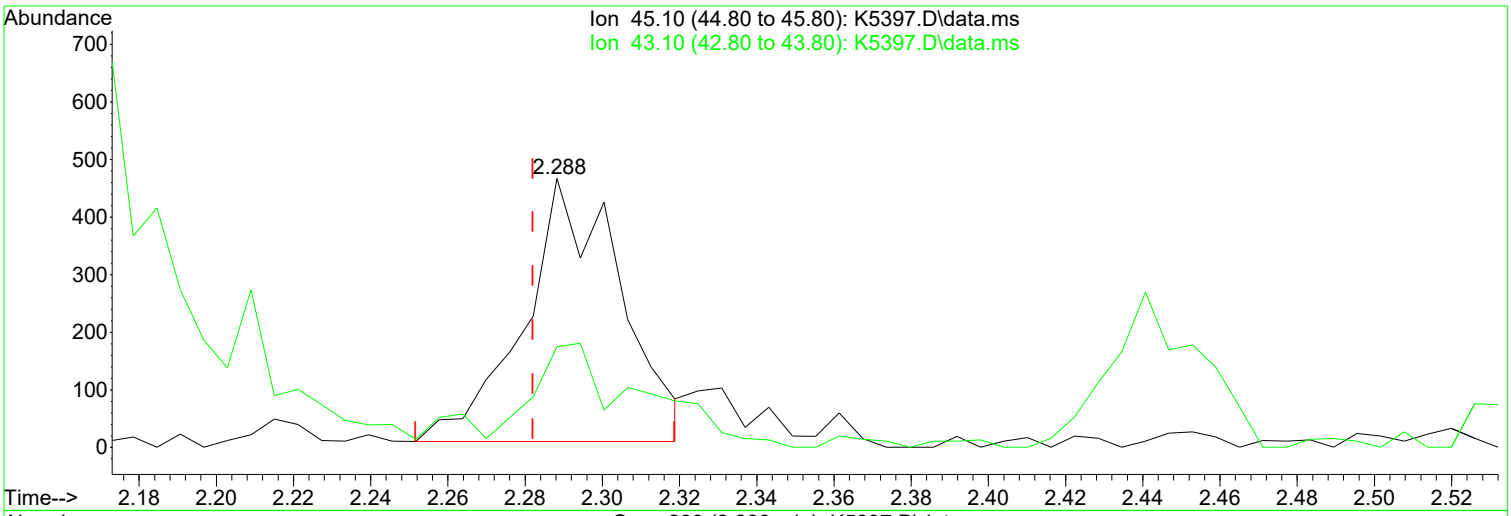
Poor integration.

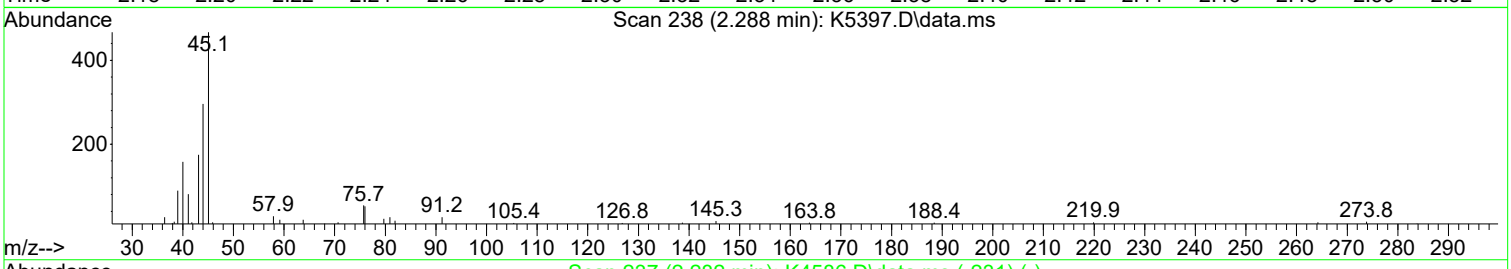
09/03/24

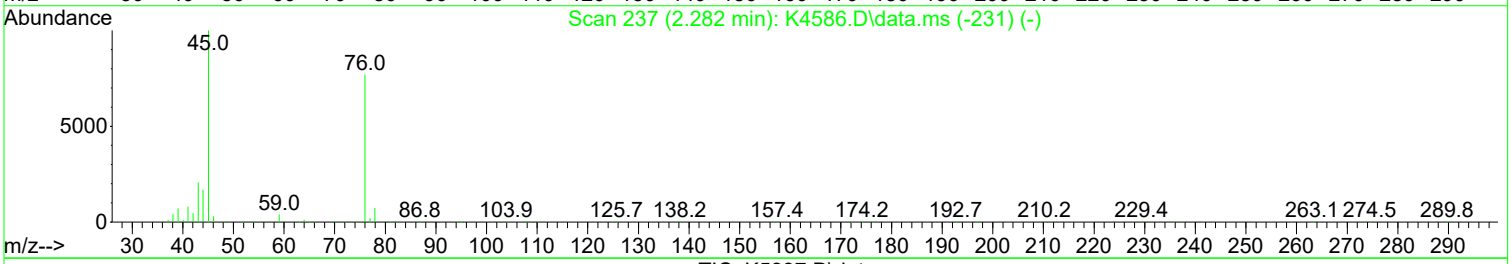
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5397.D
Acq On : 30 Aug 2024 11:59 am
Operator : F.NAEGLER
Sample : R2408139-002
Misc : CEC 26473 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 30 12:20:16 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5397.D\data.ms

(17) 2-Propanol

2.288min (+ 0.006) 1.37 ug/L

response 793

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	21.40	37.47
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/03/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5397.D
Acq On : 30 Aug 2024 11:59 am
Operator : F.NAEGLER
Sample : R2408139-002
Misc : CEC 26473 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 30 12:20:16 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

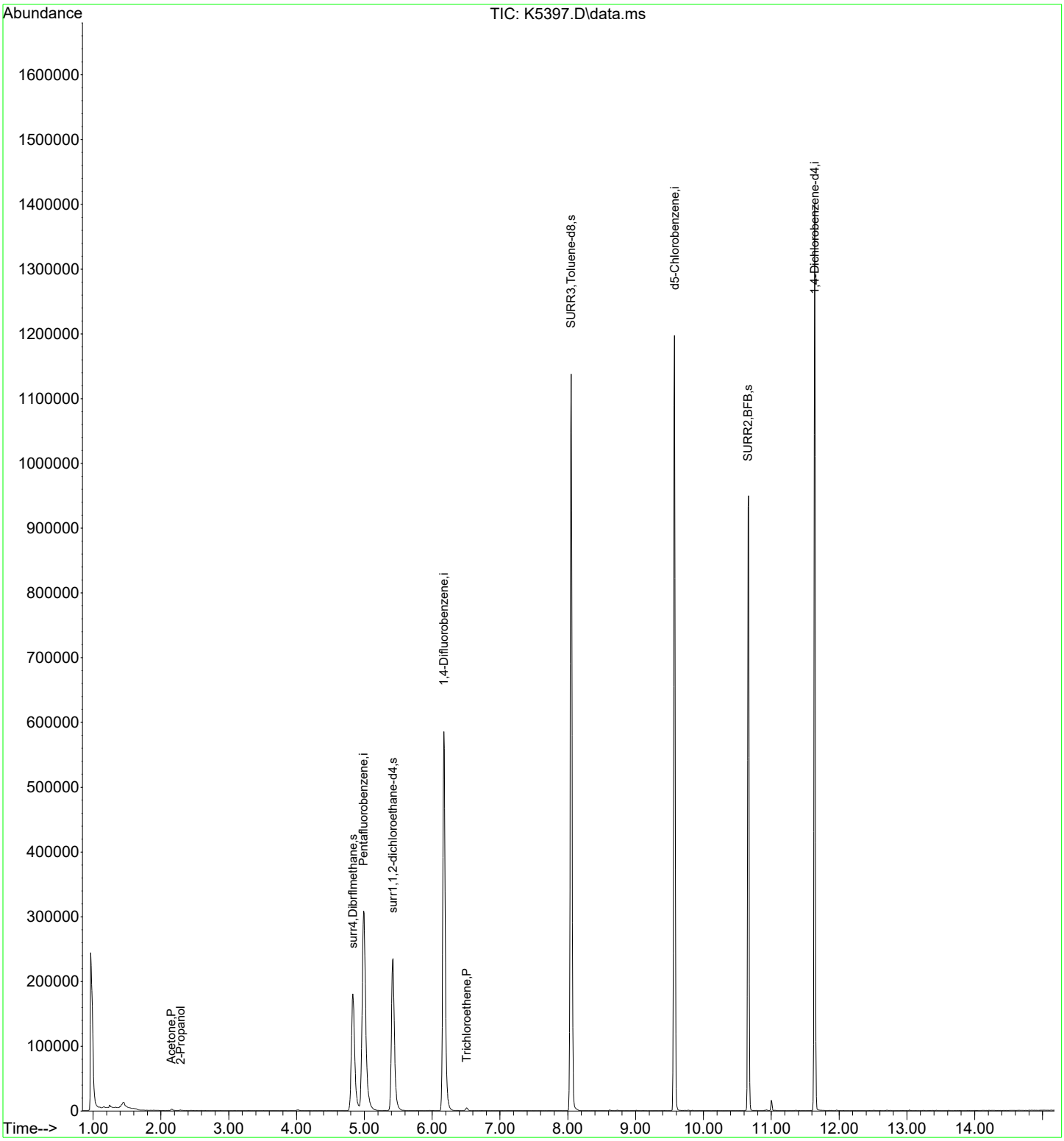
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.989	168	365597	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.172	114	608079	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.573	117	541226	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	251221	50.00	ug/L	# 0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.830	113	191160	50.40	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 100.80%			
47) surr1,1,2-dichloroetha...	5.422	65	270034	52.08	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 104.16%			
64) SURR3,Toluene-d8	8.049	98	720397	51.75	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 103.50%			
69) SURR2,BFB	10.659	95	266446	48.68	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 97.36%			
Target Compounds						Qvalue
16) Acetone	2.154	43	2514	0.859	ug/L	95
17) 2-Propanol	2.288	45	987m	1.710	ug/L	
53) Trichloroethene	6.507	130	1790	0.464	ug/L	92

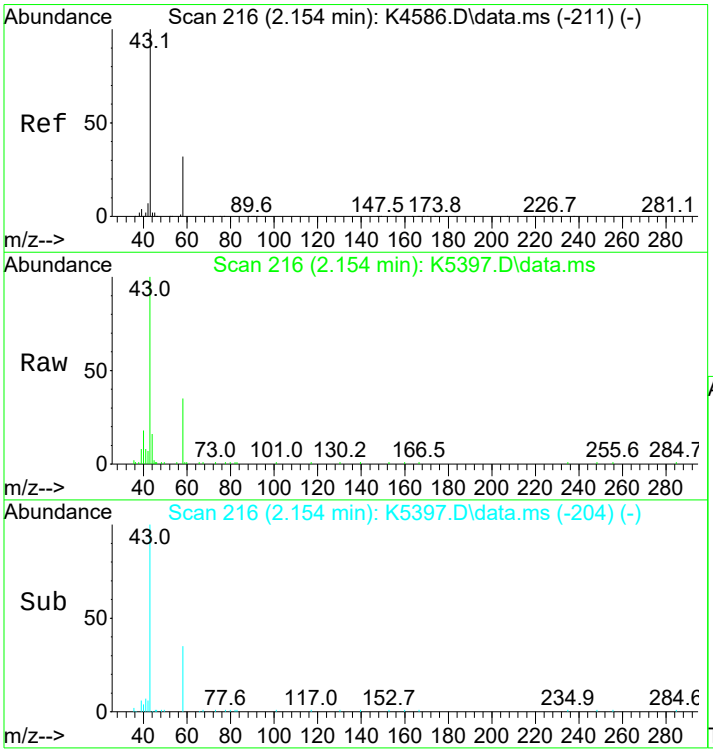
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5397.D
Acq On : 30 Aug 2024 11:59 am
Operator : F.NAEGLER
Sample : R2408139-002
Misc : CEC 26473 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 30 12:20:16 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

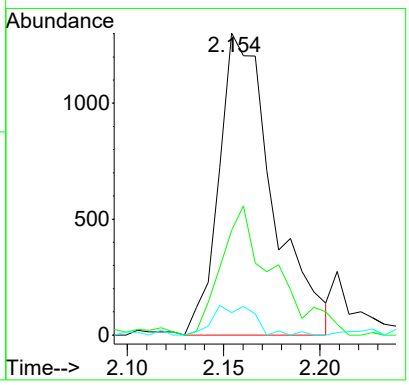


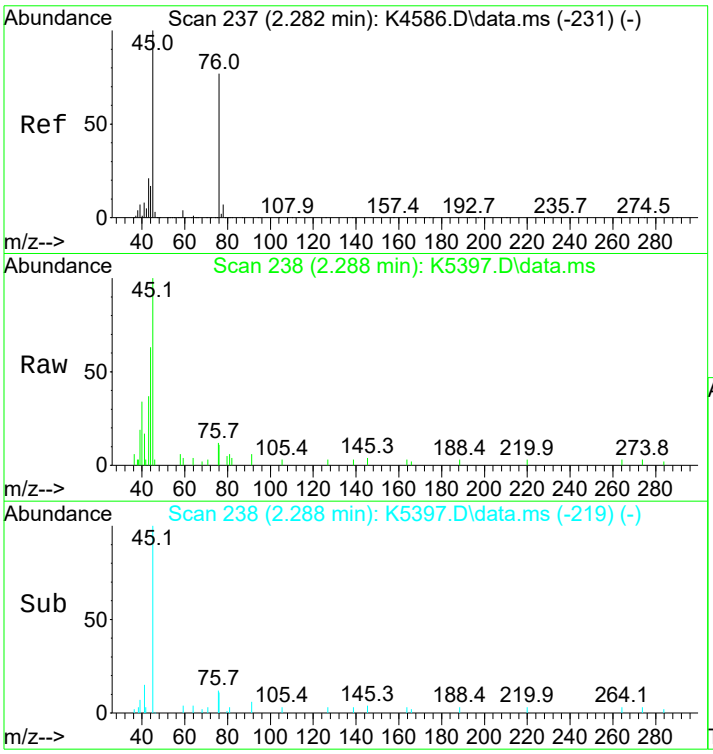


#16
Acetone
Concen: 0.86 ug/L
RT: 2.154 min Scan# 216
Delta R.T. 0.000 min
Lab File: K5397.D
Acq: 30 Aug 2024 11:59 am

Tgt Ion: 43 Resp: 2514

Ion	Ratio	Lower	Upper
43	100		
58	34.6	11.5	51.5
42	7.4	0.0	27.3

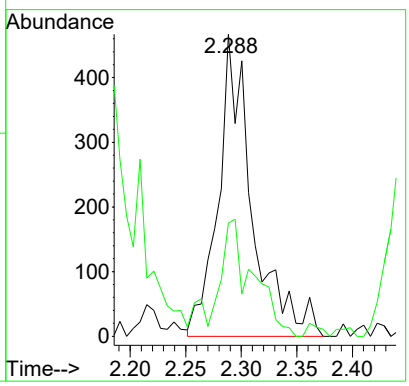


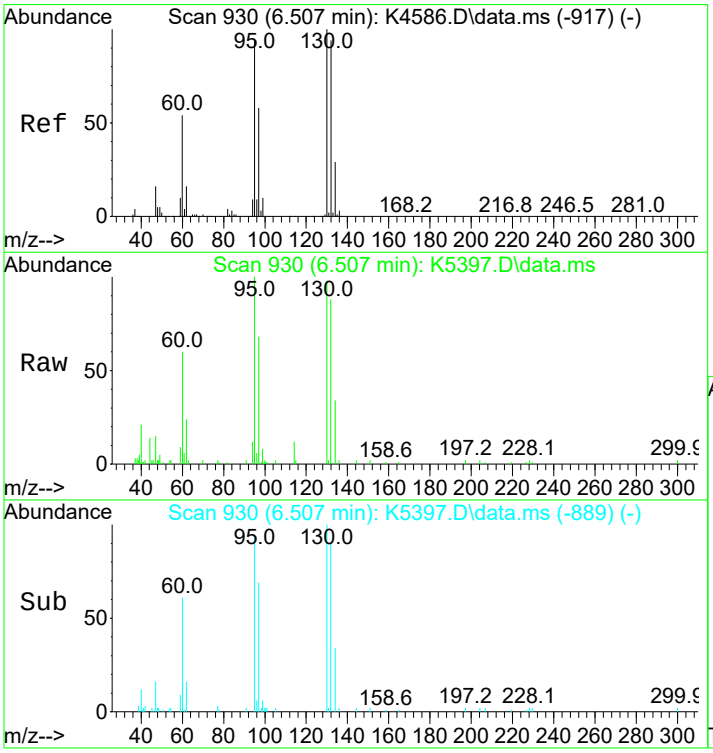


#17
2-Propanol
Concen: 1.71 ug/L m
RT: 2.288 min Scan# 238
Delta R.T. 0.006 min
Lab File: K5397.D
Acq: 30 Aug 2024 11:59 am

Tgt Ion: 45 Resp: 987

Ion	Ratio	Lower	Upper
45	100		
43	37.5	1.4	41.4

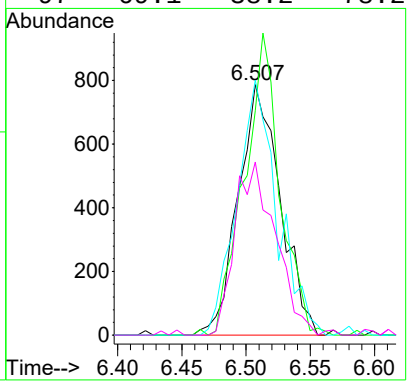




#53
Trichloroethene
Concen: 0.46 ug/L
RT: 6.507 min Scan# 930
Delta R.T. 0.000 min
Lab File: K5397.D
Acq: 30 Aug 2024 11:59 am

Tgt Ion:130 Resp: 1790

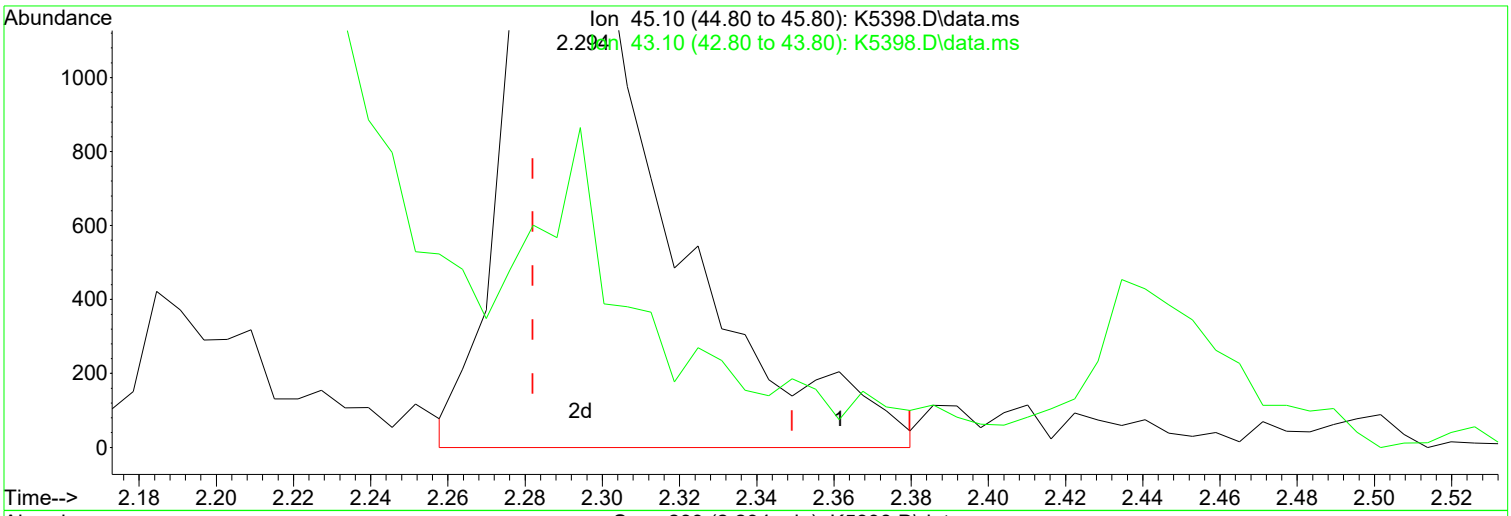
Ion	Ratio	Lower	Upper
130	100		
132	89.6	74.0	114.0
95	101.8	74.1	114.1
97	69.1	38.2	78.2

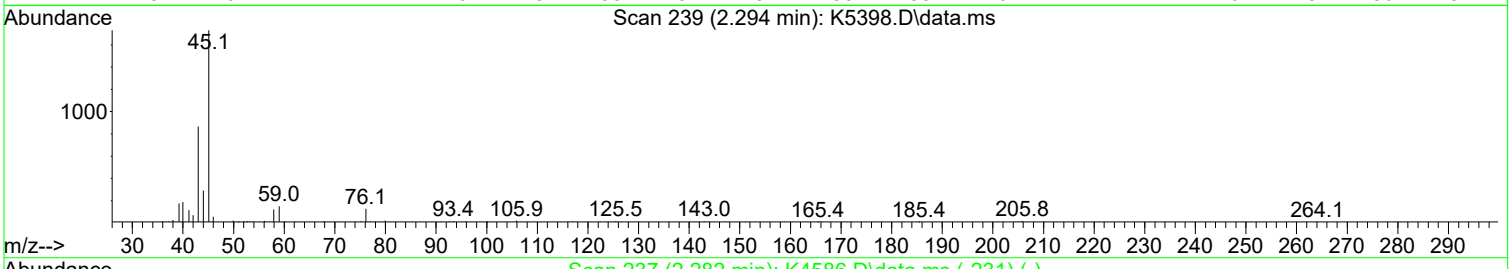


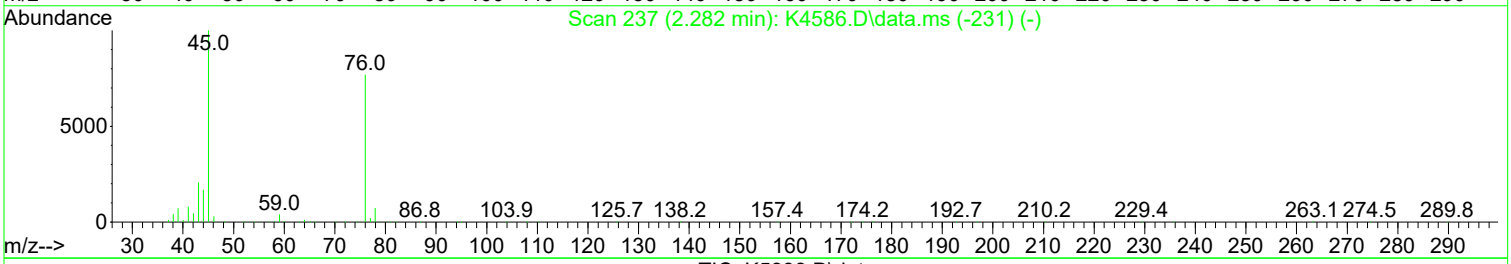
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5398.D
Acq On : 30 Aug 2024 12:22 pm
Operator : F.NAEGLER
Sample : R2408139-003
Misc : CEC 26473 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 30 12:44:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5398.D\data.ms

(17) 2-Propanol

2.294min (+ 0.012) 7.78 ug/L m

response 4515

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	21.40	49.97#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

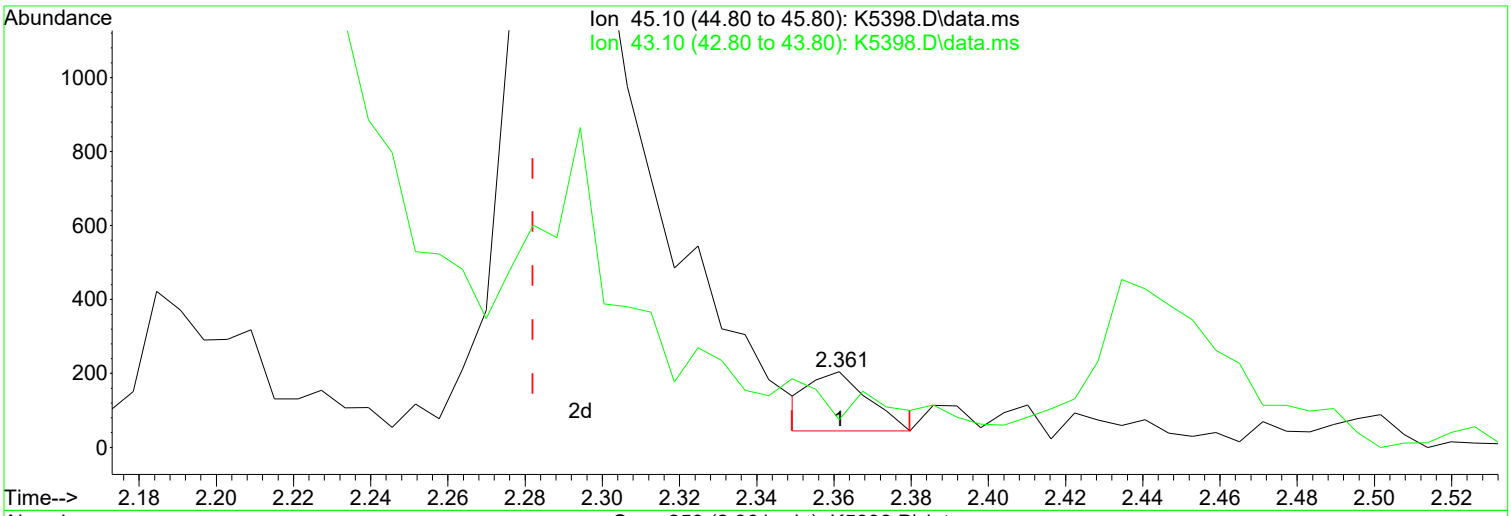
Wrong peak selected.

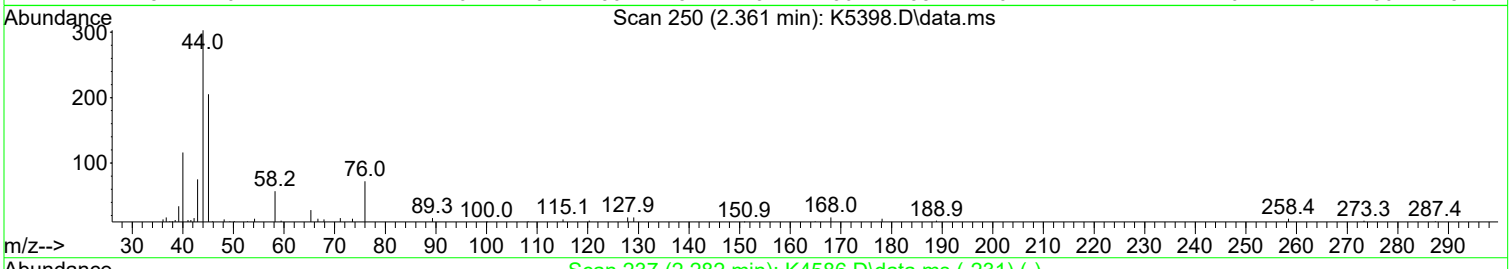
09/03/24

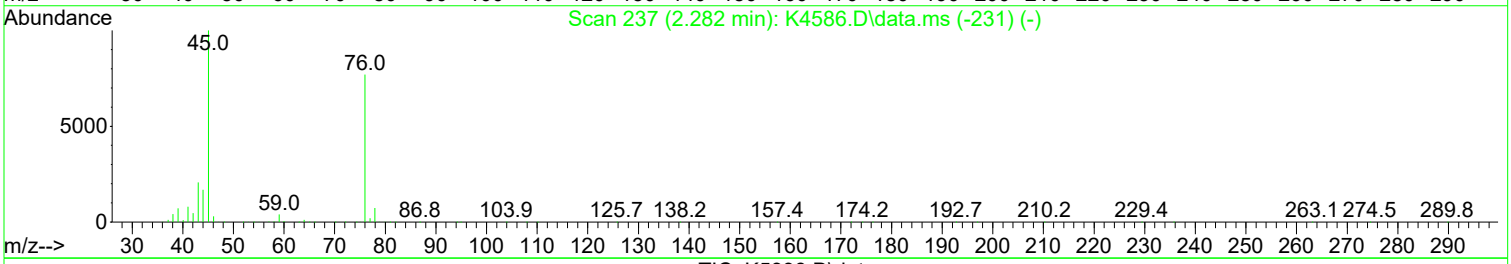
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5398.D
Acq On : 30 Aug 2024 12:22 pm
Operator : F.NAEGLER
Sample : R2408139-003
Misc : CEC 26473 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 30 12:44:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5398.D\data.ms

(17) 2-Propanol

2.361min (+ 0.079) 0.28 ug/L

response 164

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	21.40	36.59
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/03/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5398.D
Acq On : 30 Aug 2024 12:22 pm
Operator : F.NAEGLER
Sample : R2408139-003
Misc : CEC 26473 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 30 12:44:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

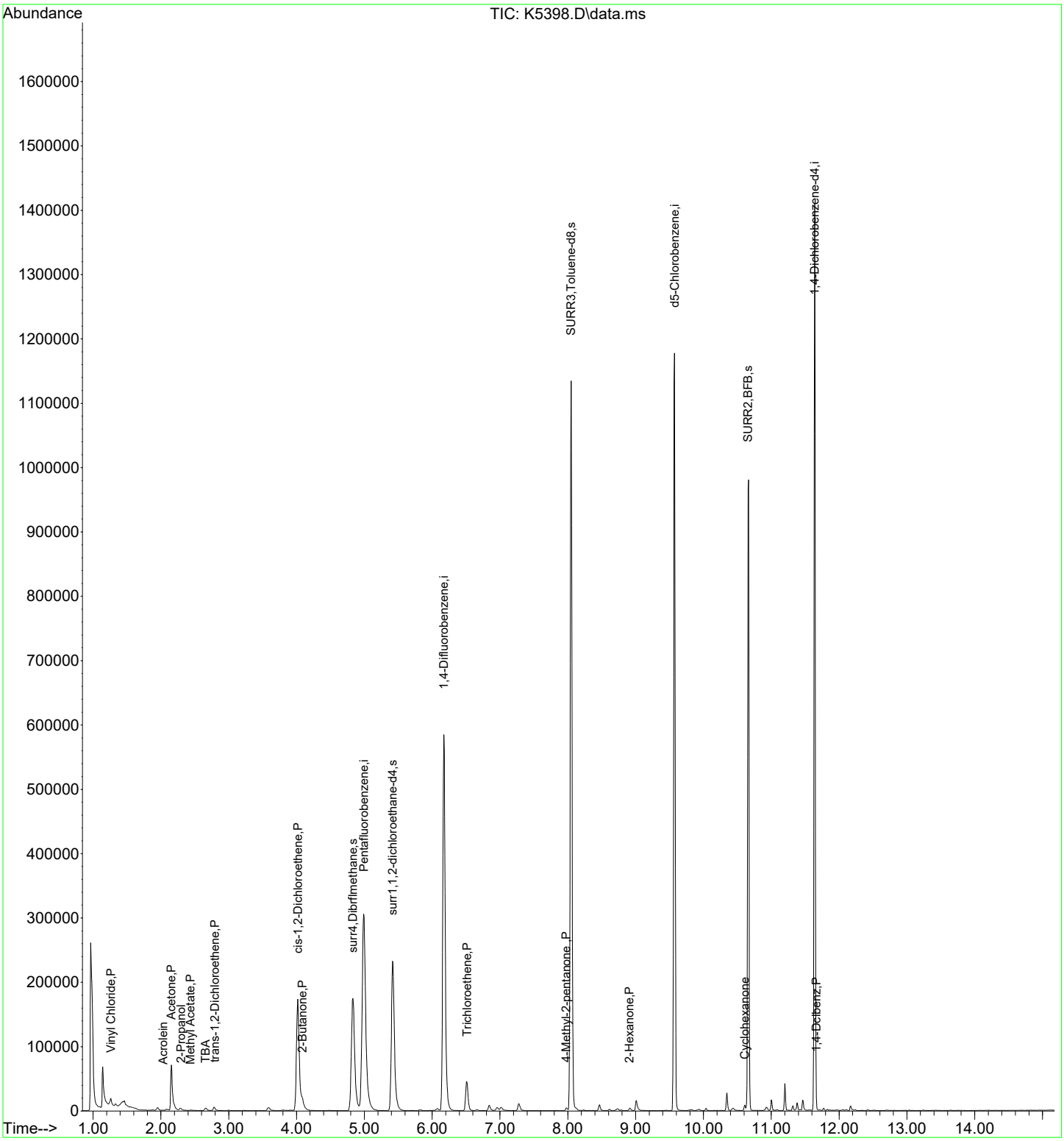
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.995	168	367572	50.00	ug/L		0.00
42) 1,4-Difluorobenzene	6.172	114	607389	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.573	117	542955	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	254784	50.00	ug/L	#	0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.830	113	189770	50.09	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 100.18%				
47) surr1,1,2-dichloroetha...	5.416	65	266541	51.47	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.94%				
64) SURR3,Toluene-d8	8.049	98	719990	51.78	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 103.56%				
69) SURR2,BFB	10.659	95	274586	50.23	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.46%				
Target Compounds							Qvalue
5) Vinyl Chloride	1.264	62	8114	1.585	ug/L	#	46
13) Acrolein	2.032	56	379	0.646	ug/L		95
16) Acetone	2.154	43	85755	29.148	ug/L		99
17) 2-Propanol	2.294	45	4515m	7.782	ug/L		
21) Methyl Acetate	2.435	43	1143	0.223	ug/L		79
23) TBA	2.660	59	5359	4.983	ug/L		95
26) trans-1,2-Dichloroethene	2.794	96	2132	0.624	ug/L	#	75
33) cis-1,2-Dichloroethene	4.020	96	106824	26.867	ug/L		88
34) 2-Butanone	4.087	43	22568	6.428	ug/L		97
53) Trichloroethene	6.513	130	18991	4.930	ug/L		97
63) 4-Methyl-2-pentanone	7.976	43	3055	0.496	ug/L		88
72) 2-Hexanone	8.909	43	2858	0.597	ug/L		88
88) Cyclohexanone	10.610	55	3436	2.892	ug/L		89
105) 1,4-Dclbenz	11.665	146	1589	0.202	ug/L		90

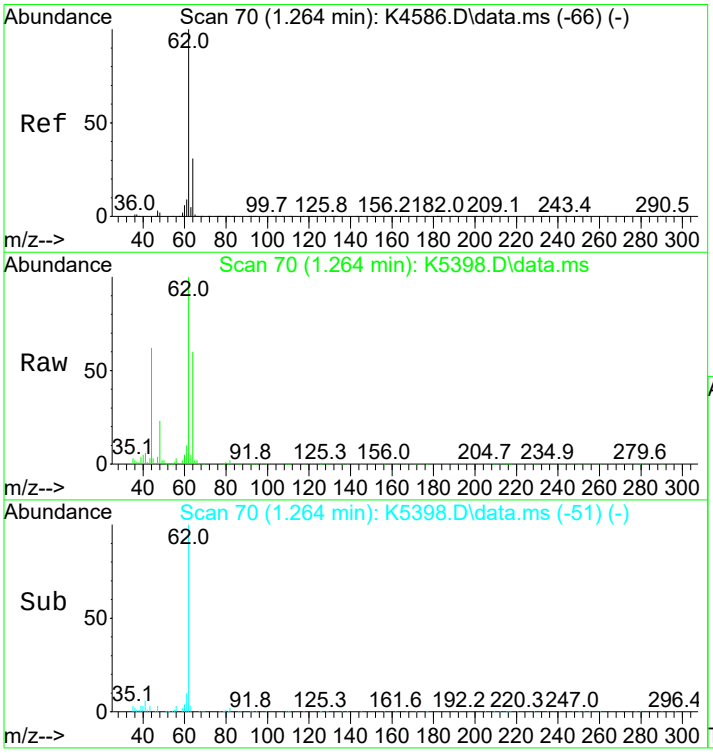
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5398.D
Acq On : 30 Aug 2024 12:22 pm
Operator : F.NAEGLER
Sample : R2408139-003
Misc : CEC 26473 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 30 12:44:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

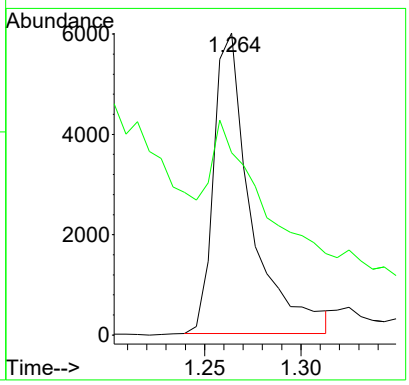


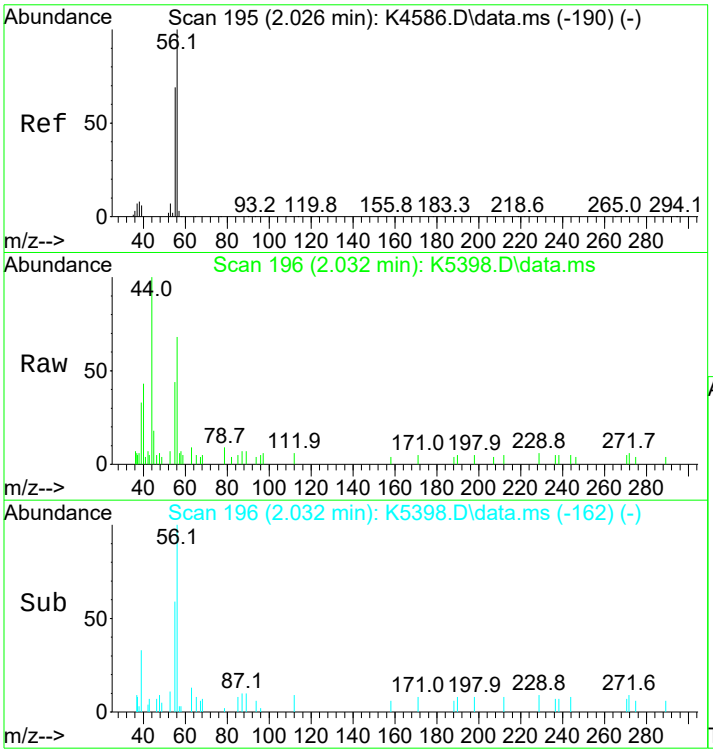


#5
Vinyl Chloride
Concen: 1.59 ug/L
RT: 1.264 min Scan# 70
Delta R.T. 0.000 min
Lab File: K5398.D
Acq: 30 Aug 2024 12:22 pm

Tgt Ion: 62 Resp: 8114

Ion	Ratio	Lower	Upper
62	100		
64	60.3	10.9	50.9#

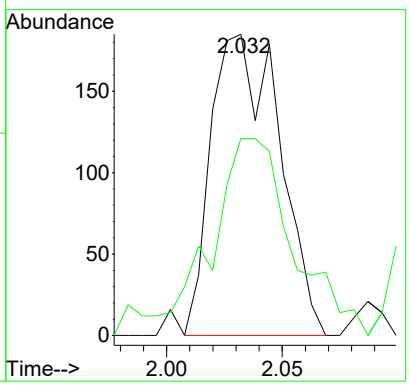


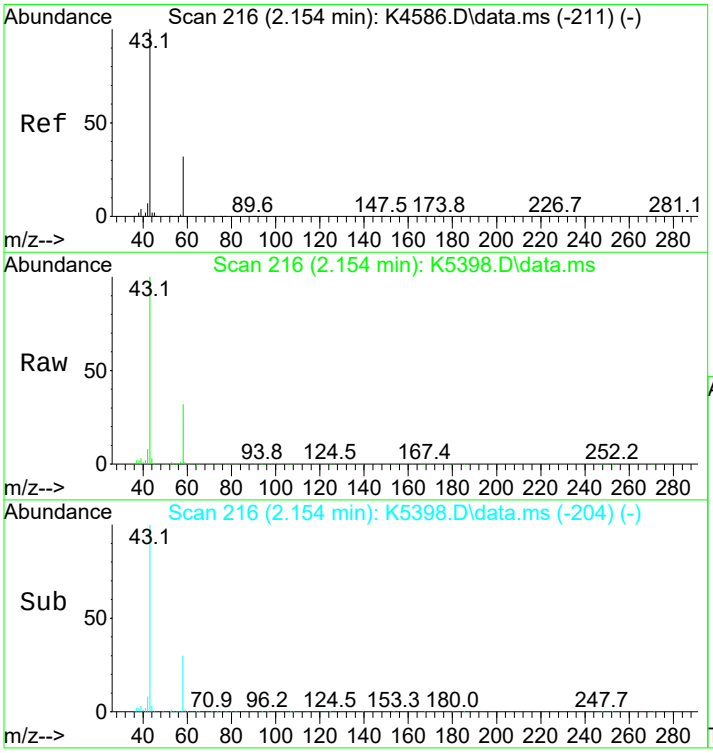


#13
Acrolein
Concen: 0.65 ug/L
RT: 2.032 min Scan# 196
Delta R.T. 0.006 min
Lab File: K5398.D
Acq: 30 Aug 2024 12:22 pm

Tgt Ion: 56 Resp: 379

Ion	Ratio	Lower	Upper
56	100		
55	65.4	49.5	89.5

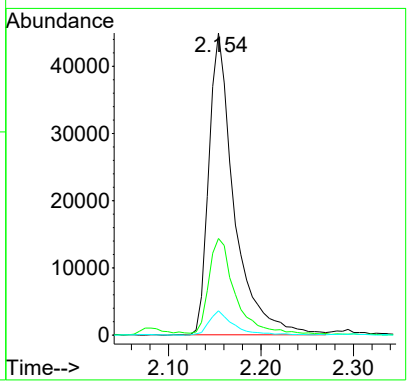


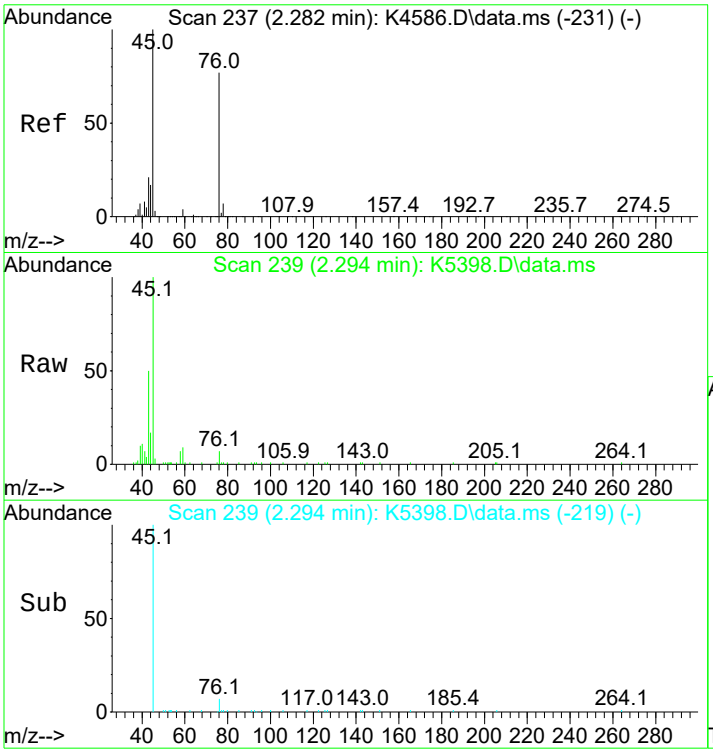


#16
Acetone
Concen: 29.15 ug/L
RT: 2.154 min Scan# 216
Delta R.T. 0.000 min
Lab File: K5398.D
Acq: 30 Aug 2024 12:22 pm

Tgt Ion: 43 Resp: 85755

Ion	Ratio	Lower	Upper
43	100		
58	32.0	11.5	51.5
42	8.0	0.0	27.3

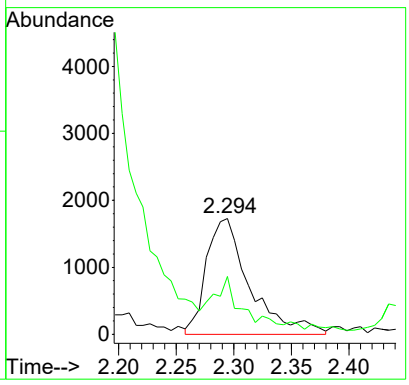


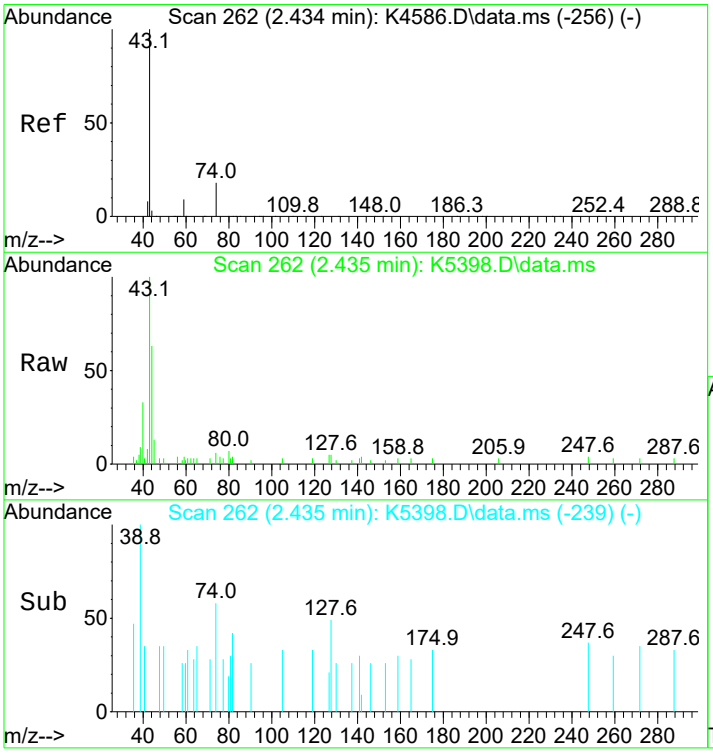


#17
2-Propanol
Concen: 7.78 ug/L m
RT: 2.294 min Scan# 239
Delta R.T. 0.012 min
Lab File: K5398.D
Acq: 30 Aug 2024 12:22 pm

Tgt Ion: 45 Resp: 4515

Ion	Ratio	Lower	Upper
45	100		
43	50.0	1.4	41.4#

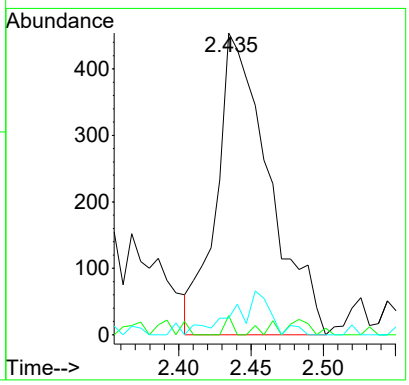


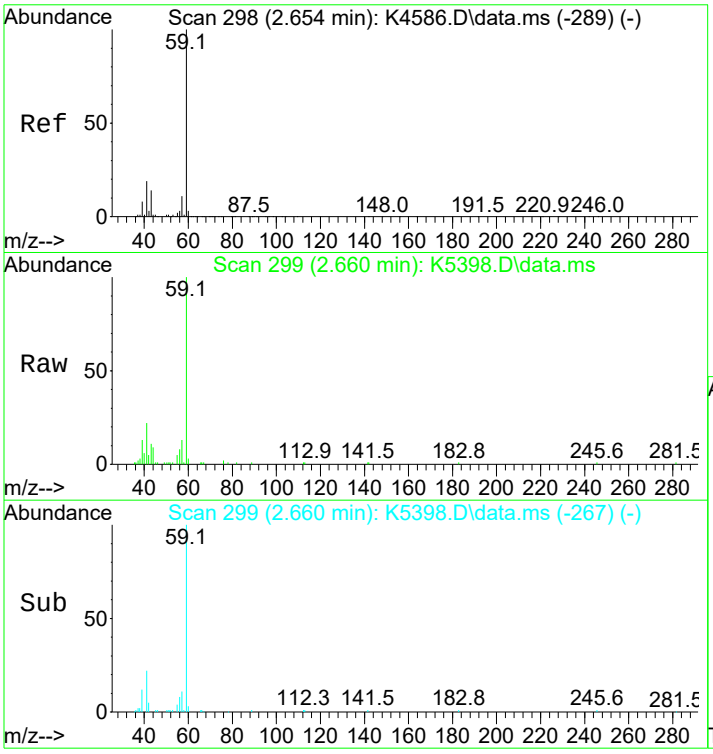


#21
Methyl Acetate
Concen: 0.22 ug/L
RT: 2.435 min Scan# 262
Delta R.T. 0.000 min
Lab File: K5398.D
Acq: 30 Aug 2024 12:22 pm

Tgt Ion: 43 Resp: 1143

Ion	Ratio	Lower	Upper
43	100		
59	6.4	0.0	29.1
74	5.5	0.0	38.1

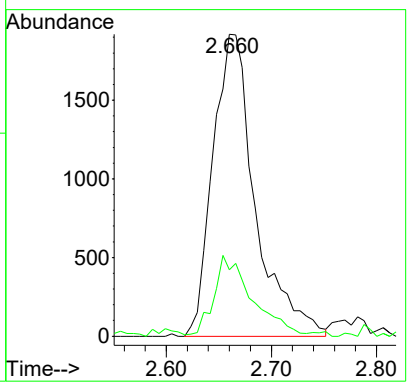


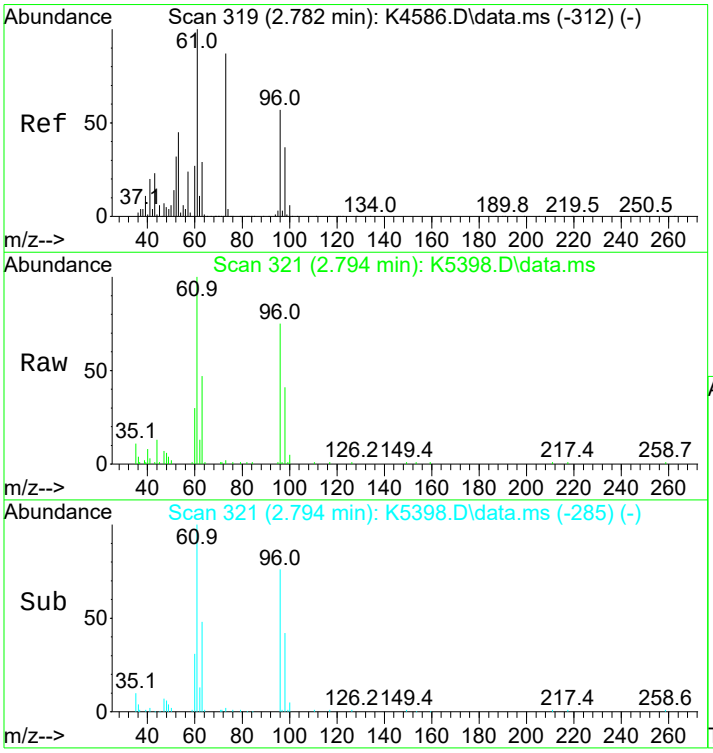


#23
TBA
Concen: 4.98 ug/L
RT: 2.660 min Scan# 299
Delta R.T. 0.006 min
Lab File: K5398.D
Acq: 30 Aug 2024 12:22 pm

Tgt Ion: 59 Resp: 5359

Ion	Ratio	Lower	Upper
59	100		
41	22.0	0.0	39.7

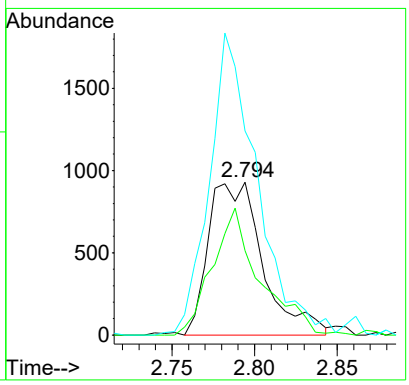


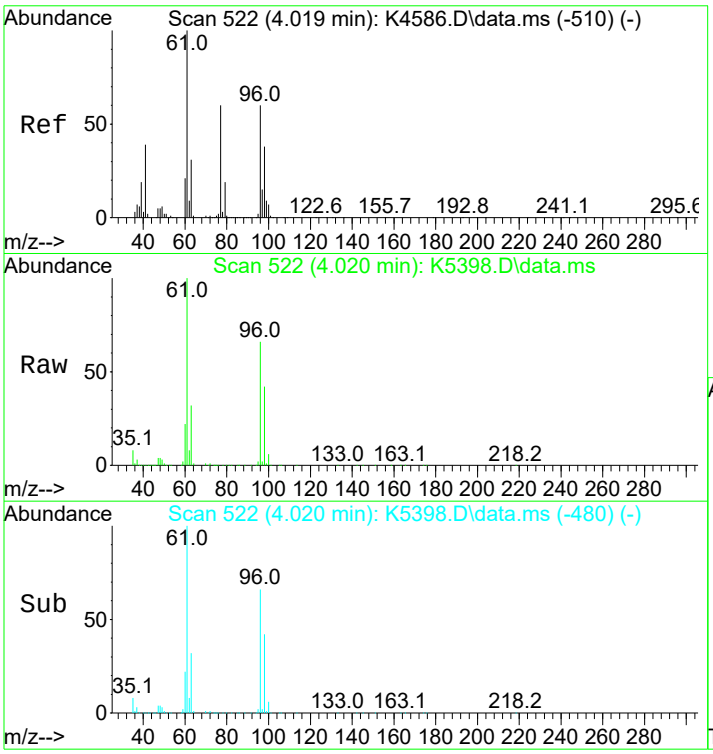


#26
trans-1,2-Dichloroethene
Concen: 0.62 ug/L
RT: 2.794 min Scan# 321
Delta R.T. 0.012 min
Lab File: K5398.D
Acq: 30 Aug 2024 12:22 pm

Tgt Ion: 96 Resp: 2132

Ion	Ratio	Lower	Upper
96	100		
98	55.2	45.1	85.1
61	133.4	154.0	194.0#

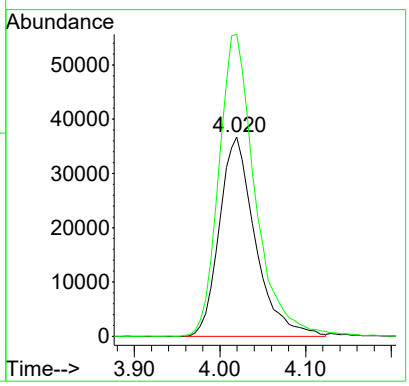


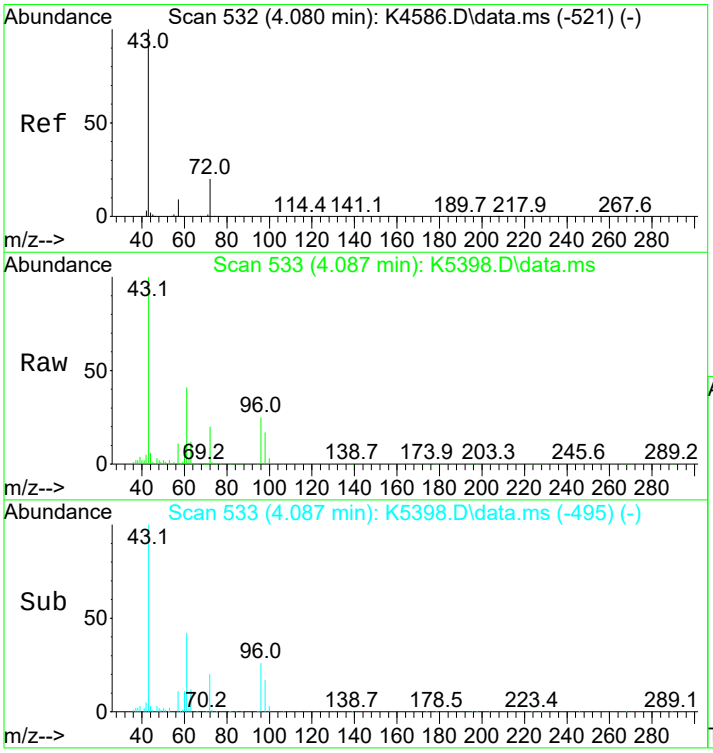


#33
cis-1,2-Dichloroethene
Concen: 26.87 ug/L
RT: 4.020 min Scan# 522
Delta R.T. 0.000 min
Lab File: K5398.D
Acq: 30 Aug 2024 12:22 pm

Tgt Ion: 96 Resp: 106824

Ion	Ratio	Lower	Upper
96	100		
61	151.5	147.9	187.9

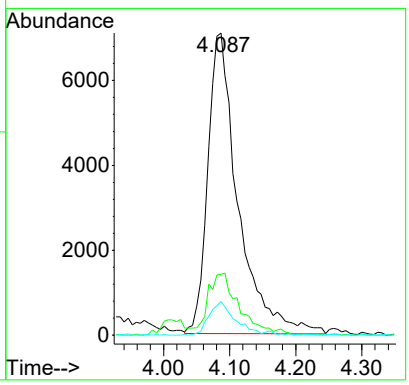


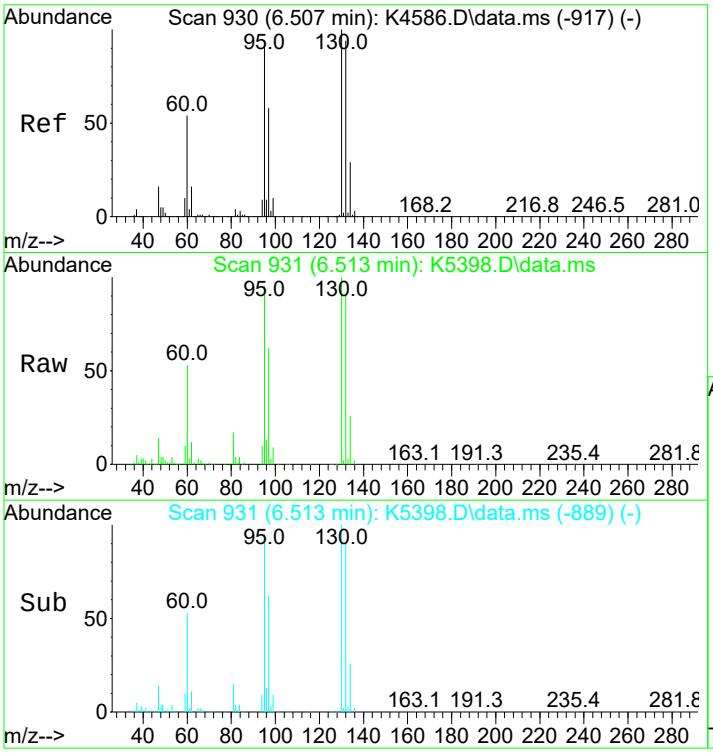


#34
2-Butanone
Concen: 6.43 ug/L
RT: 4.087 min Scan# 533
Delta R.T. 0.006 min
Lab File: K5398.D
Acq: 30 Aug 2024 12:22 pm

Tgt Ion: 43 Resp: 22568

Ion	Ratio	Lower	Upper
43	100		
72	20.1	1.2	41.2
57	11.1	0.0	29.2

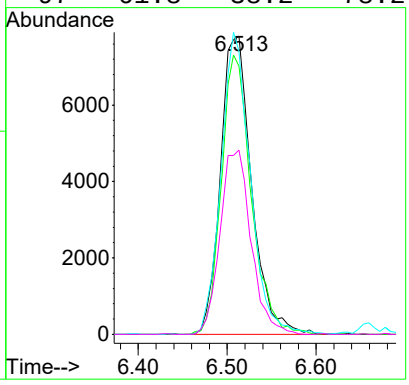


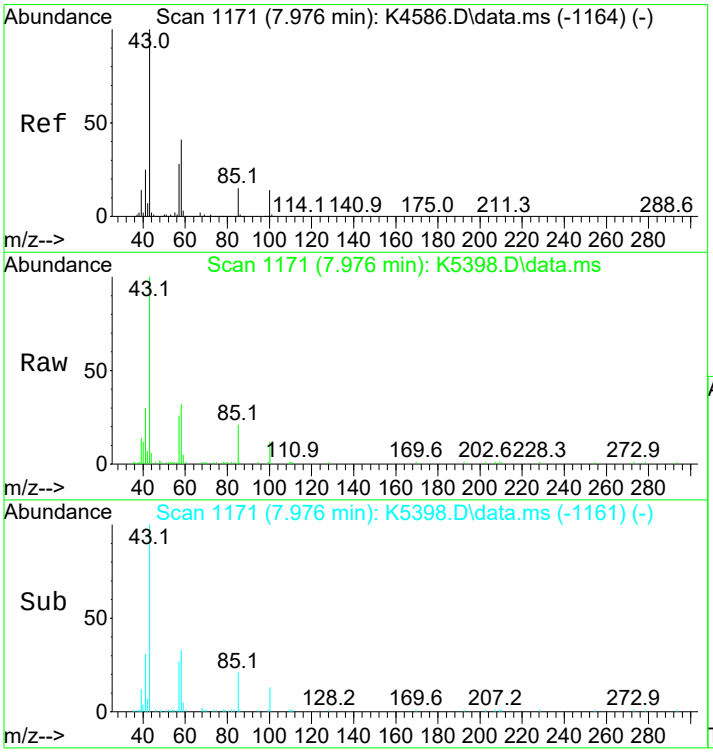


#53
Trichloroethene
Concen: 4.93 ug/L
RT: 6.513 min Scan# 931
Delta R.T. 0.006 min
Lab File: K5398.D
Acq: 30 Aug 2024 12:22 pm

Tgt Ion:130 Resp: 18991

Ion	Ratio	Lower	Upper
130	100		
132	90.0	74.0	114.0
95	95.0	74.1	114.1
97	61.8	38.2	78.2

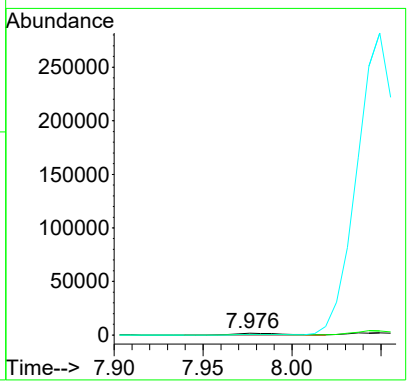


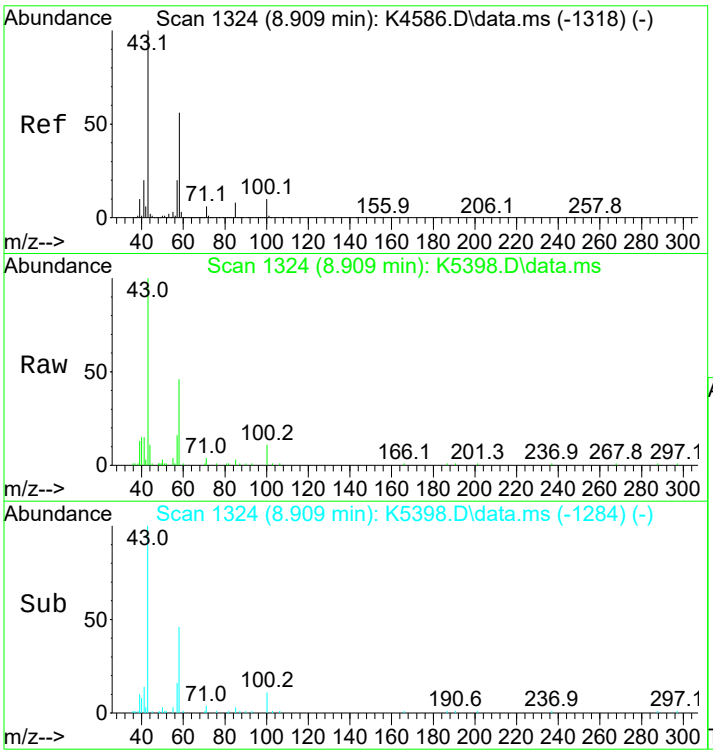


#63
4-Methyl-2-pentanone
Concen: 0.50 ug/L
RT: 7.976 min Scan# 1171
Delta R.T. 0.000 min
Lab File: K5398.D
Acq: 30 Aug 2024 12:22 pm

Tgt Ion: 43 Resp: 3055

Ion	Ratio	Lower	Upper
43	100		
58	32.3	21.3	61.3
100	12.4	0.0	33.7

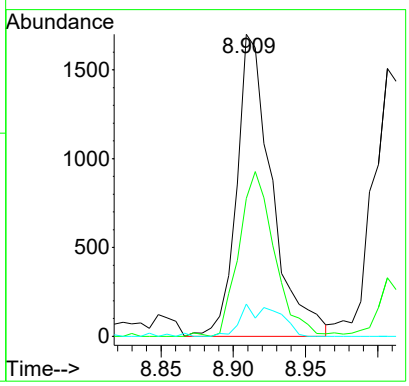


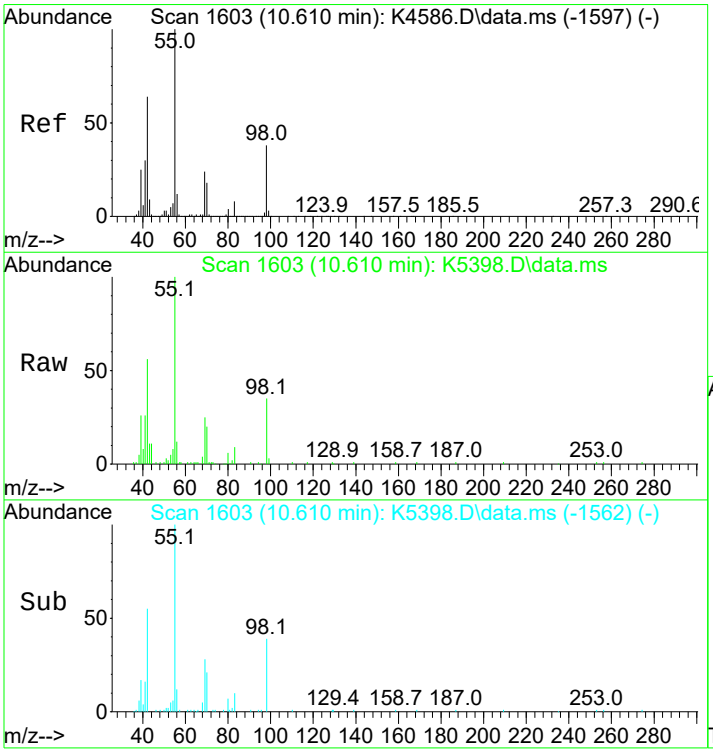


#72
2-Hexanone
Concen: 0.60 ug/L
RT: 8.909 min Scan# 1324
Delta R.T. 0.000 min
Lab File: K5398.D
Acq: 30 Aug 2024 12:22 pm

Tgt Ion: 43 Resp: 2858

Ion	Ratio	Lower	Upper
43	100		
58	45.6	35.9	75.9
100	10.7	0.0	30.1

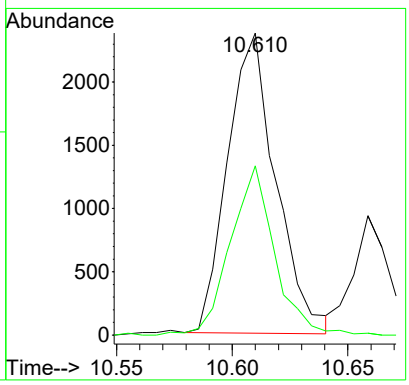


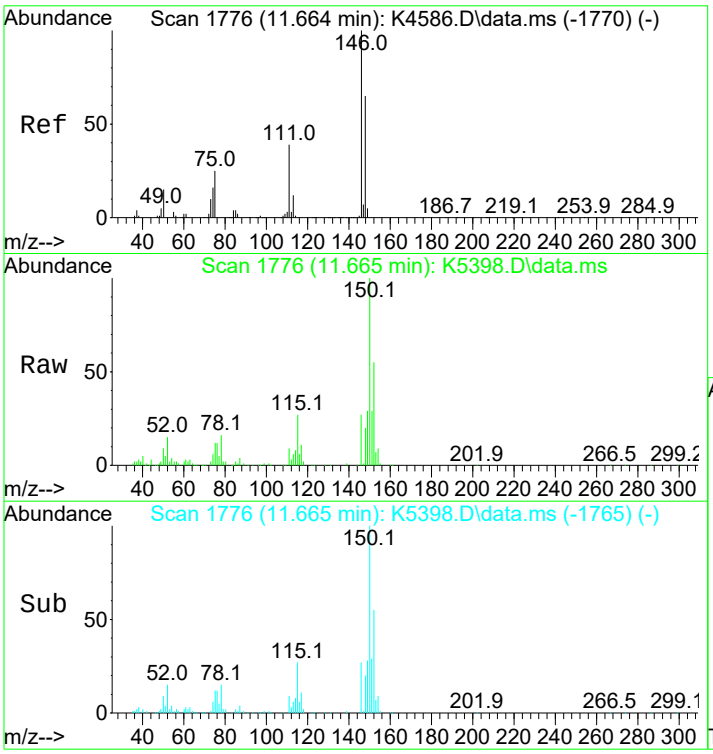


#88
Cyclohexanone
Concen: 2.89 ug/L
RT: 10.610 min Scan# 1603
Delta R.T. 0.000 min
Lab File: K5398.D
Acq: 30 Aug 2024 12:22 pm

Tgt Ion: 55 Resp: 3436

Ion	Ratio	Lower	Upper
55	100		
42	56.0	44.5	84.5

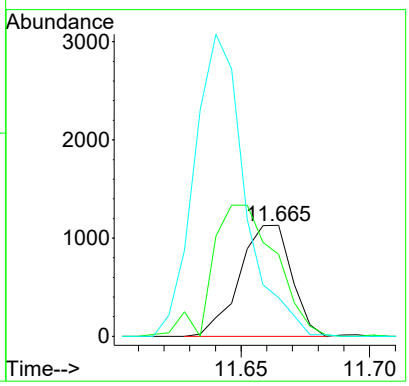




#105
1,4-Dclbenz
Concen: 0.20 ug/L
RT: 11.665 min Scan# 1776
Delta R.T. 0.000 min
Lab File: K5398.D
Acq: 30 Aug 2024 12:22 pm

Tgt Ion:146 Resp: 1589

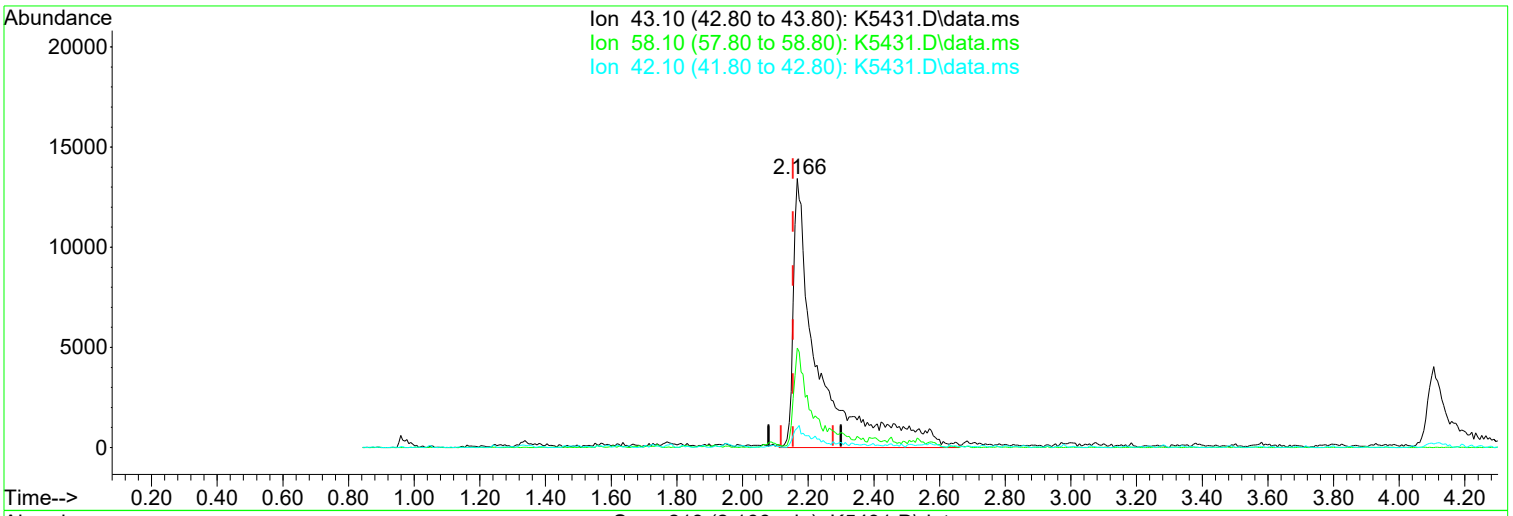
Ion	Ratio	Lower	Upper
146	100		
148	73.8	44.8	84.8
111	34.9	18.8	58.8

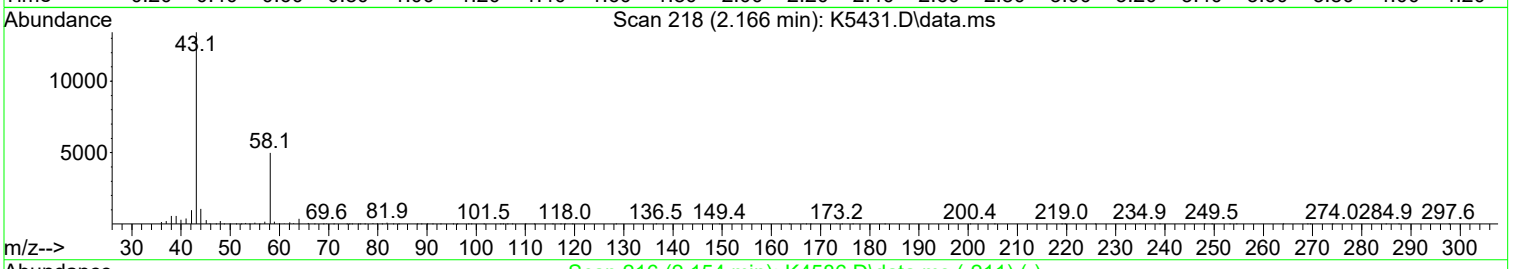


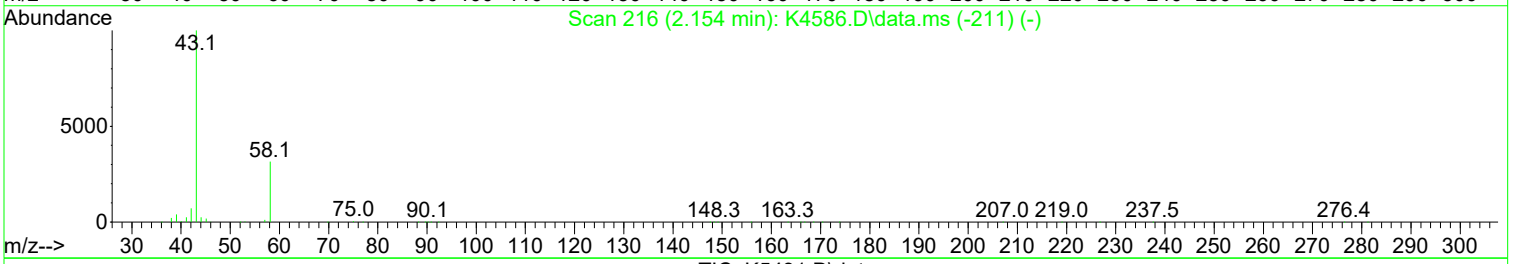
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5431.D
Acq On : 31 Aug 2024 03:12 pm
Operator : F.NAEGLER
Sample : R2408139-004
Misc : CEC 26473 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 01 11:42:20 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5431.D\data.ms

(16) Acetone (P)

2.166min (+ 0.012) 23.04 ug/L m

response 71504

Ion	Exp%	Act%
43.10	100.00	100.00
58.10	31.50	37.04
42.10	7.30	7.30
0.00	0.00	0.00

Manual Integration:

After

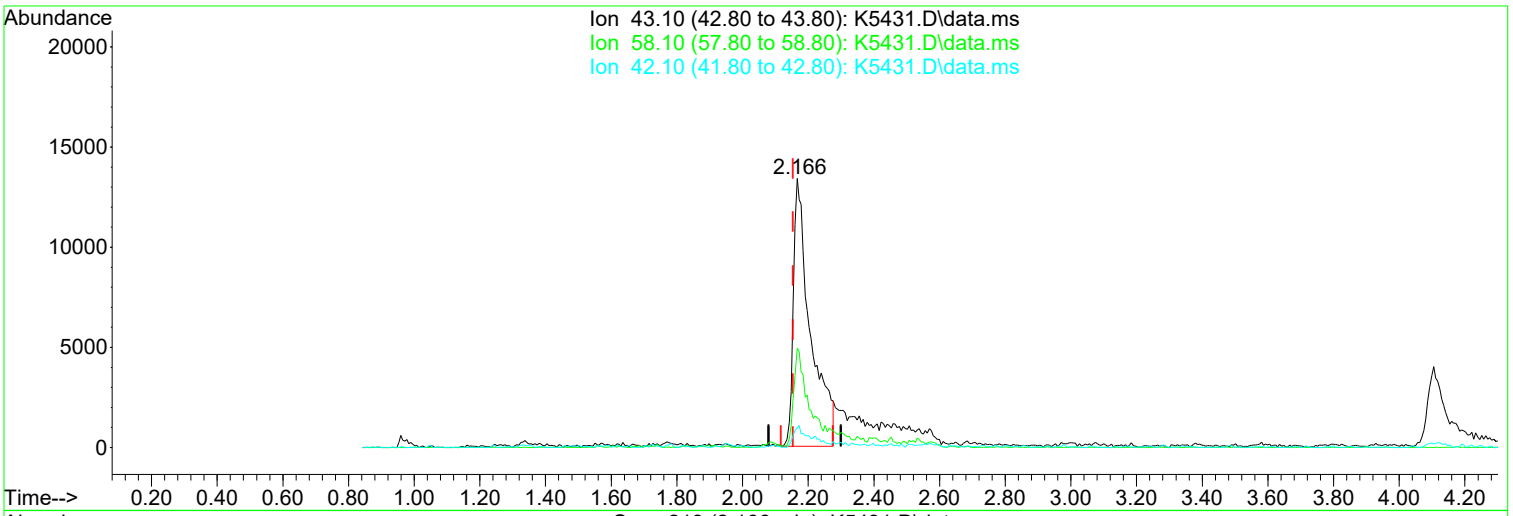
Poor integration.

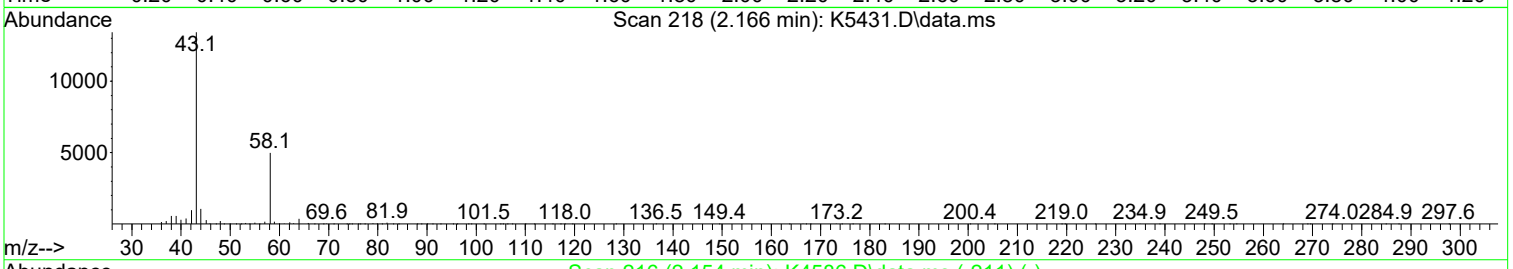
09/02/24

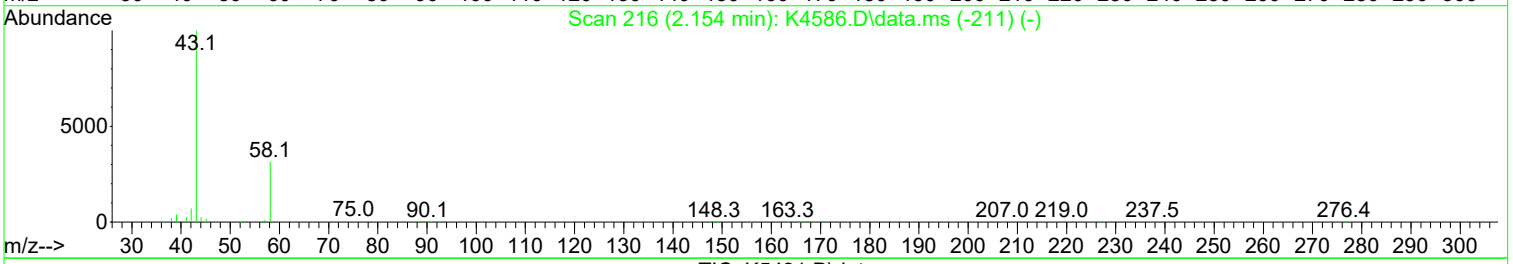
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5431.D
Acq On : 31 Aug 2024 03:12 pm
Operator : F.NAEGLER
Sample : R2408139-004
Misc : CEC 26473 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 01 11:42:20 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5431.D\data.ms

(16) Acetone (P)

2.166min (+ 0.012) 15.54 ug/L

response 48213

Ion	Exp%	Act%
43.10	100.00	100.00
58.10	31.50	37.04
42.10	7.30	7.30
0.00	0.00	0.00

Manual Integration:

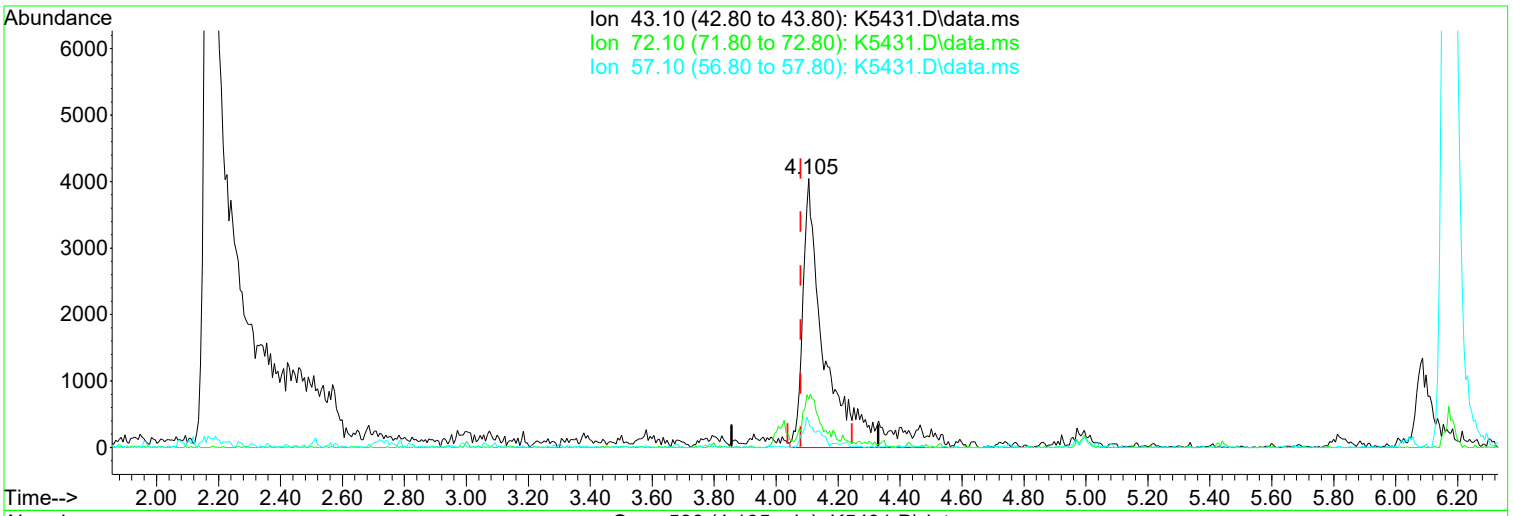
Before

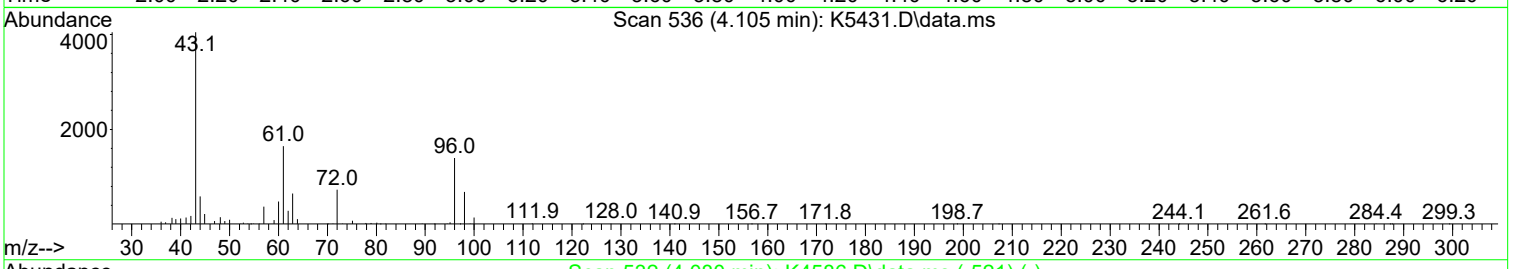
09/02/24

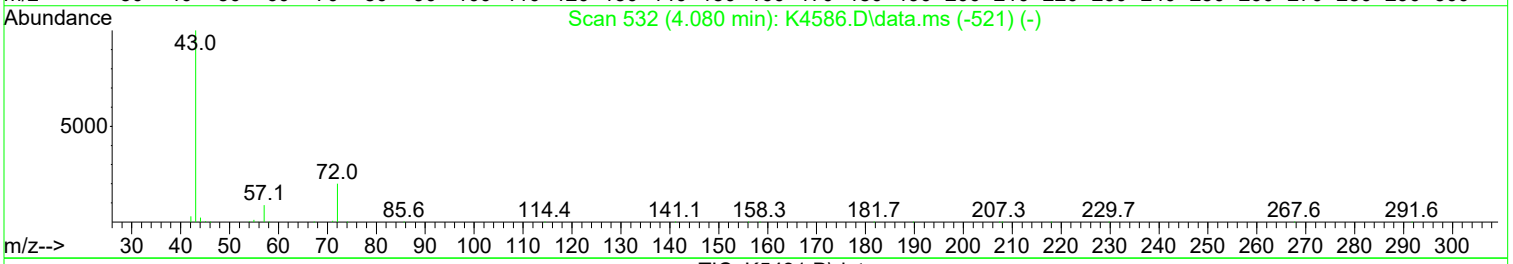
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5431.D
Acq On : 31 Aug 2024 03:12 pm
Operator : F.NAEGLER
Sample : R2408139-004
Misc : CEC 26473 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 01 11:42:20 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5431.D\data.ms

(34) 2-Butanone (P)

4.105min (+ 0.025) 5.96 ug/L m

response 22065

Ion	Exp%	Act%
43.10	100.00	100.00
72.10	21.20	18.07
57.10	9.20	9.24
0.00	0.00	0.00

Manual Integration:

After

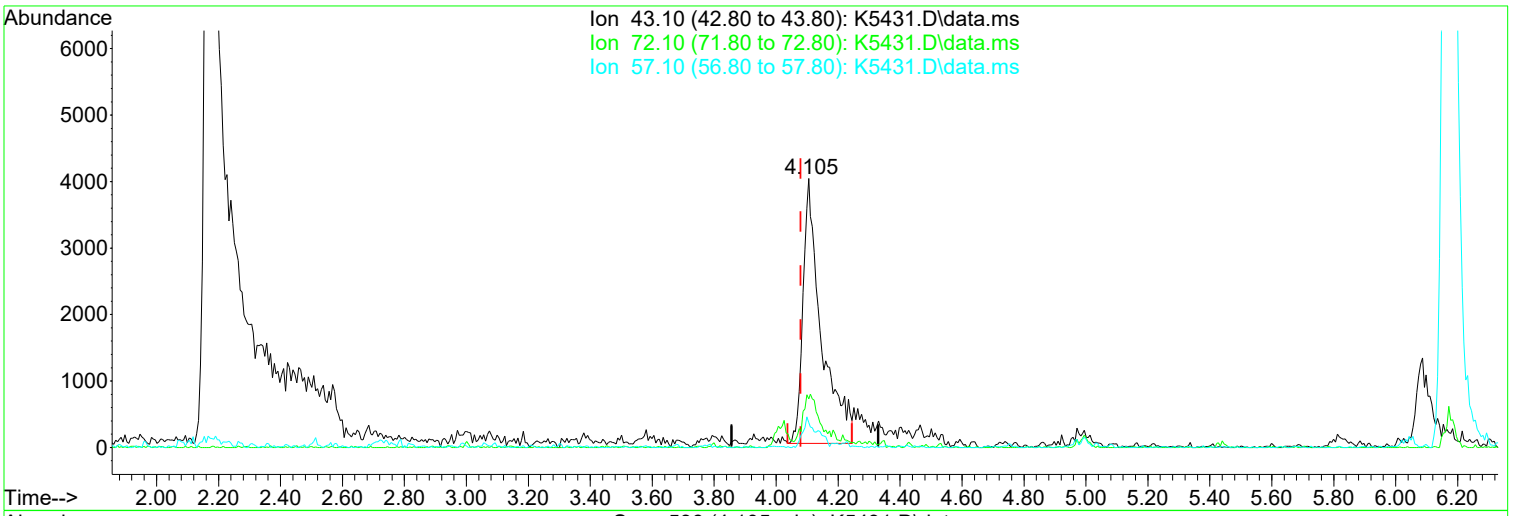
Poor integration.

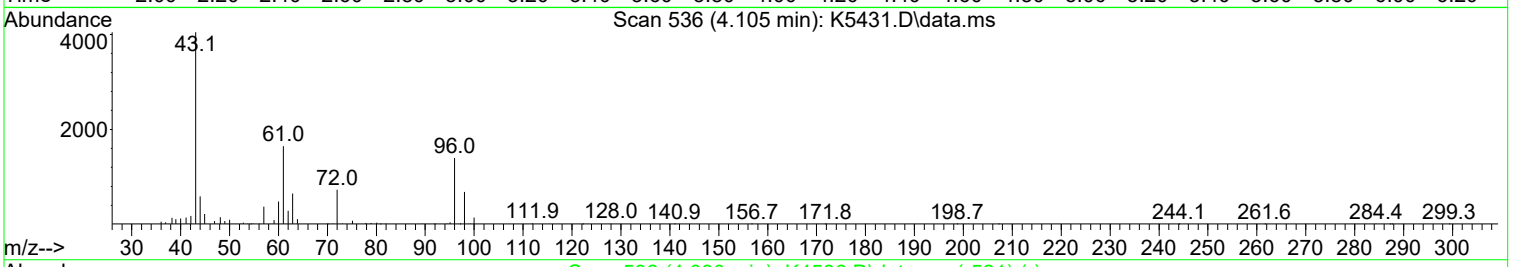
09/02/24

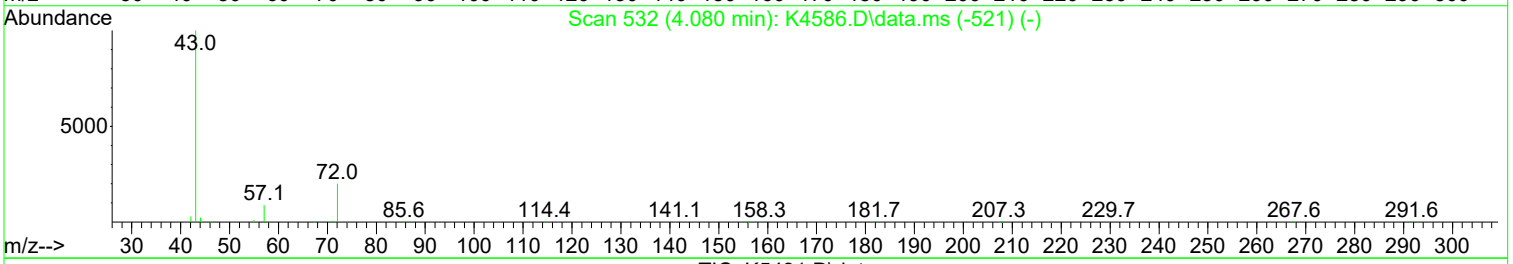
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5431.D
Acq On : 31 Aug 2024 03:12 pm
Operator : F.NAEGLER
Sample : R2408139-004
Misc : CEC 26473 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 01 11:42:20 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5431.D\data.ms

(34) 2-Butanone (P)

4.105min (+ 0.025) 4.46 ug/L

response 16503

Ion	Exp%	Act%
43.10	100.00	100.00
72.10	21.20	18.07
57.10	9.20	9.24
0.00	0.00	0.00

Manual Integration:

Before

09/02/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5431.D
Acq On : 31 Aug 2024 03:12 pm
Operator : F.NAEGLER
Sample : R2408139-004
Misc : CEC 26473 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 01 11:42:20 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

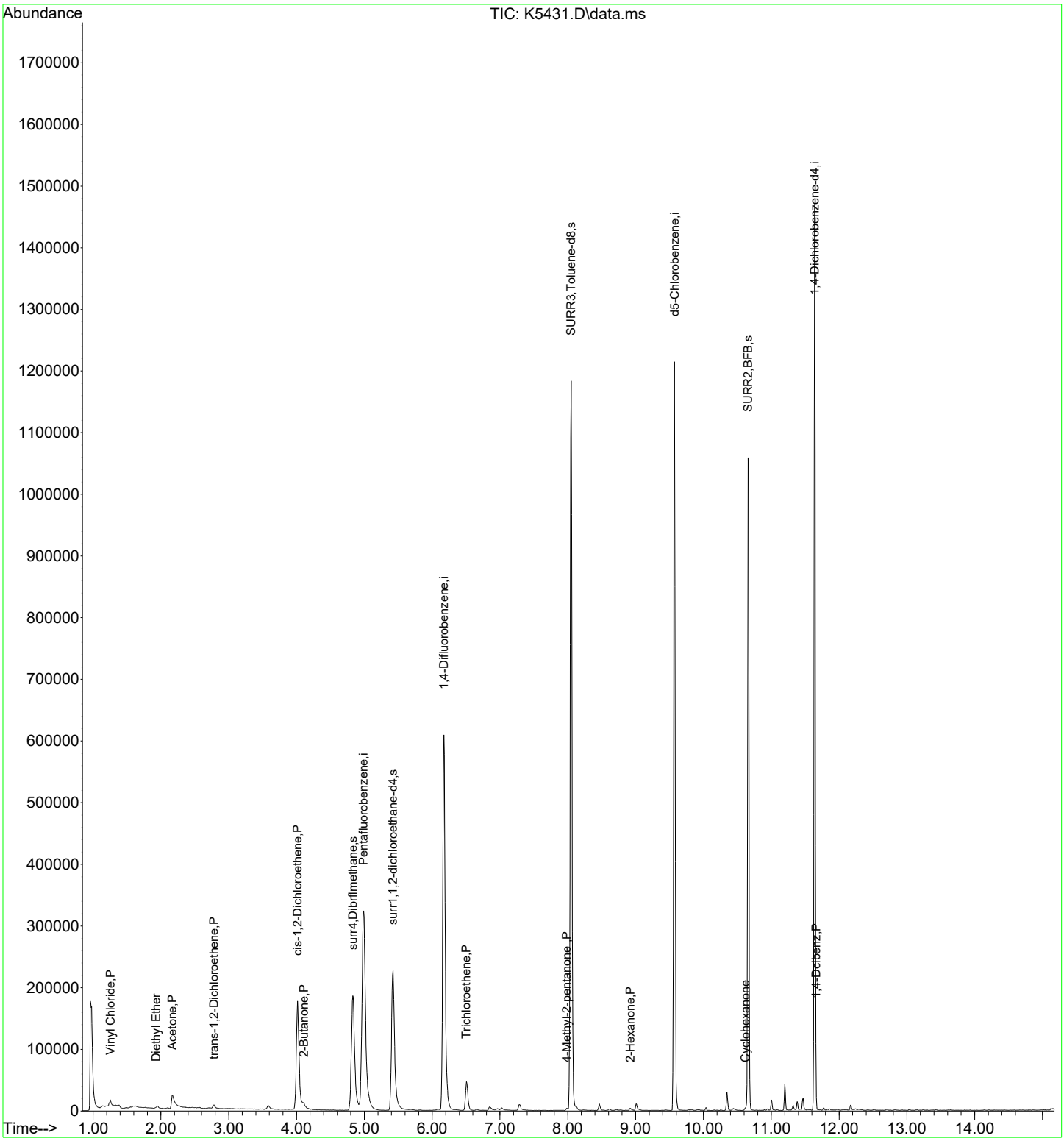
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.989	168	387713	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.172	114	636956	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.573	117	570629	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	264617	50.00	ug/L	# 0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.830	113	202609	50.99	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 101.98%			
47) surr1,1,2-dichloroetha...	5.422	65	266219	49.02	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 98.04%			
64) SURR3,Toluene-d8	8.049	98	765589	52.51	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 105.02%			
69) SURR2,BFB	10.659	95	292244	50.98	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.96%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.258	62	9107	1.687	ug/L	80
6) Bromomethane	1.471	94	301	Below Cal	#	74
10) Diethyl Ether	1.929	59	1001	0.238	ug/L #	55
16) Acetone	2.166	43	71504m	23.041	ug/L	
26) trans-1,2-Dichloroethene	2.782	96	2347	0.651	ug/L	98
33) cis-1,2-Dichloroethene	4.014	96	104162	24.836	ug/L	88
34) 2-Butanone	4.105	43	22065m	5.959	ug/L	
53) Trichloroethene	6.501	130	18491	4.578	ug/L	95
63) 4-Methyl-2-pentanone	7.982	43	2931	0.454	ug/L	79
72) 2-Hexanone	8.921	43	2503	0.498	ug/L	81
88) Cyclohexanone	10.616	55	2146	1.719	ug/L	97
105) 1,4-Dclbenz	11.659	146	1668	0.204	ug/L #	71

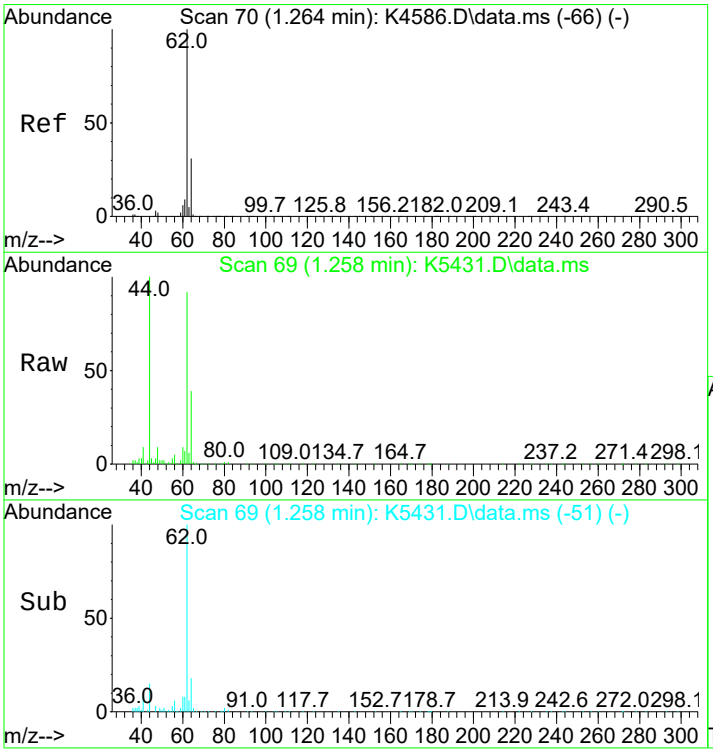
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5431.D
Acq On : 31 Aug 2024 03:12 pm
Operator : F.NAEGLER
Sample : R2408139-004
Misc : CEC 26473 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 01 11:42:20 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

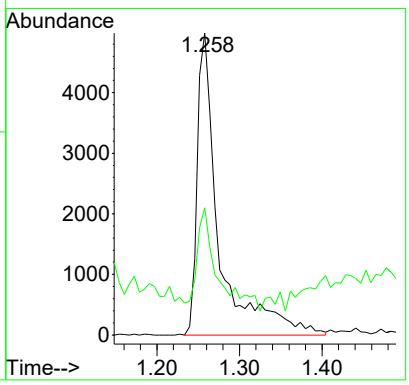


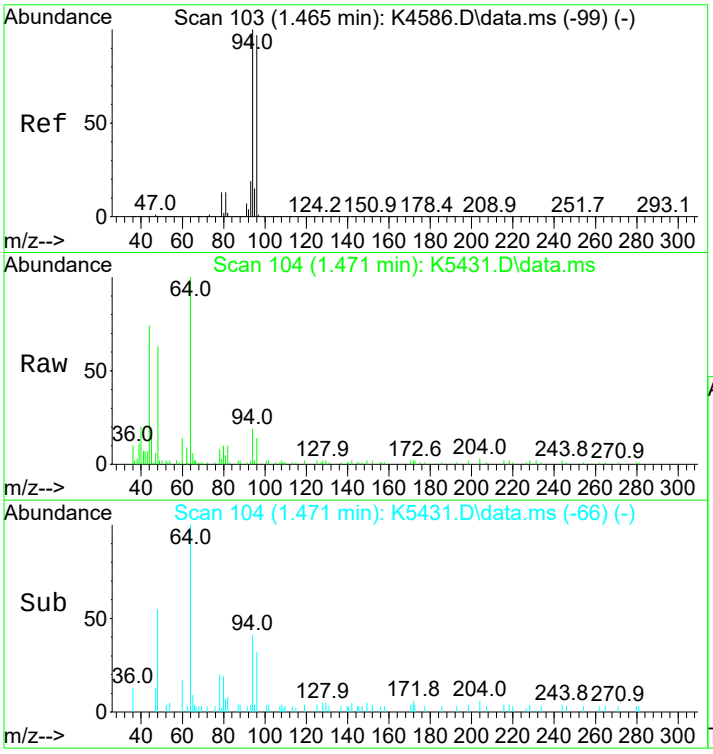


#5
Vinyl Chloride
Concen: 1.69 ug/L
RT: 1.258 min Scan# 69
Delta R.T. -0.006 min
Lab File: K5431.D
Acq: 31 Aug 2024 03:12 pm

Tgt Ion: 62 Resp: 9107

Ion	Ratio	Lower	Upper
62	100		
64	42.1	10.9	50.9

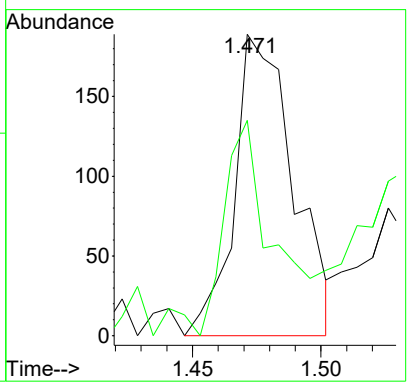


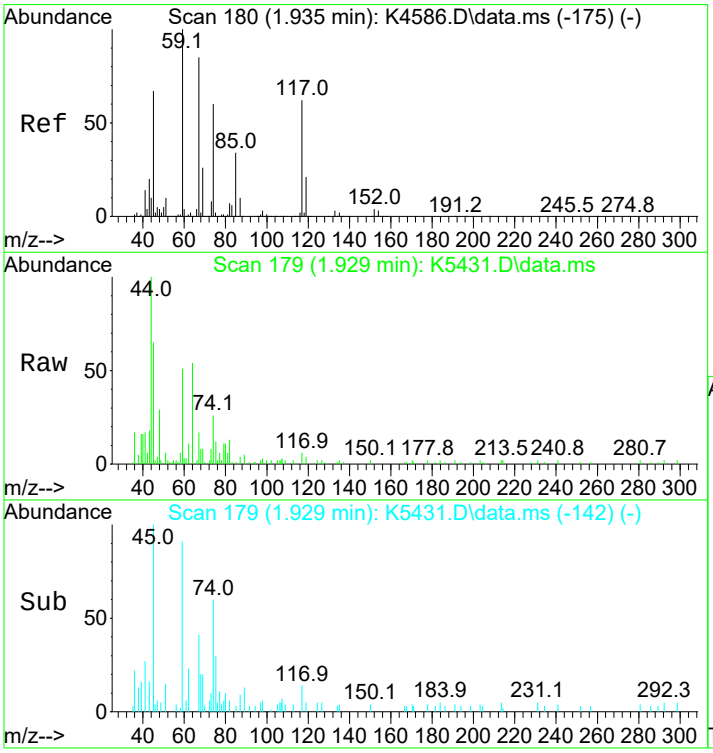


#6
Bromomethane
Concen: Below Cal
RT: 1.471 min Scan# 104
Delta R.T. 0.006 min
Lab File: K5431.D
Acq: 31 Aug 2024 03:12 pm

Tgt Ion: 94 Resp: 301

Ion	Ratio	Lower	Upper
94	100		
96	71.4	76.6	116.6#

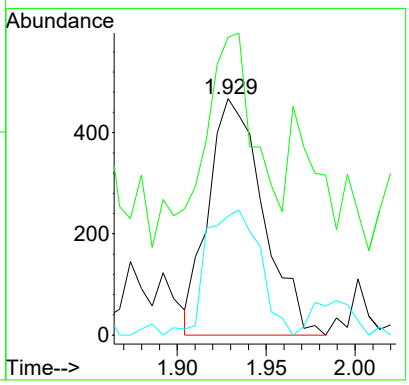


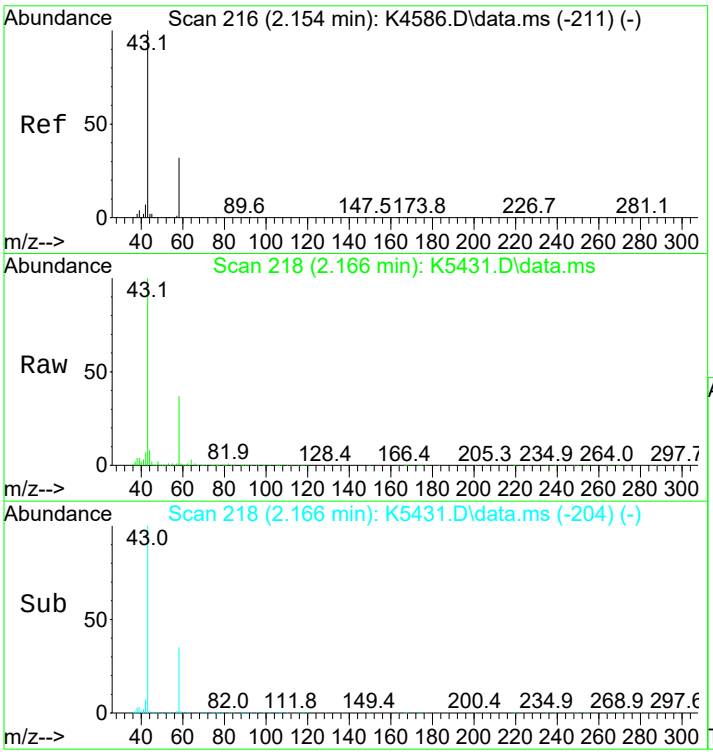


#10
Diethyl Ether
Concen: 0.24 ug/L
RT: 1.929 min Scan# 179
Delta R.T. -0.006 min
Lab File: K5431.D
Acq: 31 Aug 2024 03:12 pm

Tgt Ion: 59 Resp: 1001

Ion	Ratio	Lower	Upper
59	100		
45	126.1	47.3	87.3#
74	50.3	39.8	79.8

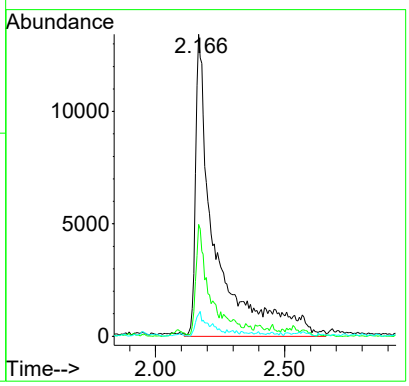


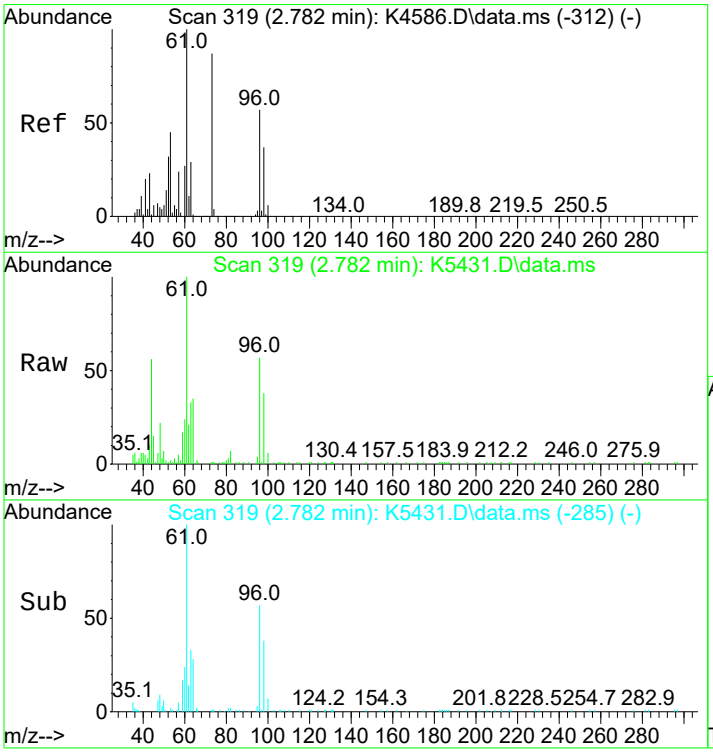


#16
Acetone
Concen: 23.04 ug/L m
RT: 2.166 min Scan# 218
Delta R.T. 0.012 min
Lab File: K5431.D
Acq: 31 Aug 2024 03:12 pm

Tgt Ion: 43 Resp: 71504

Ion	Ratio	Lower	Upper
43	100		
58	37.0	11.5	51.5
42	7.3	0.0	27.3

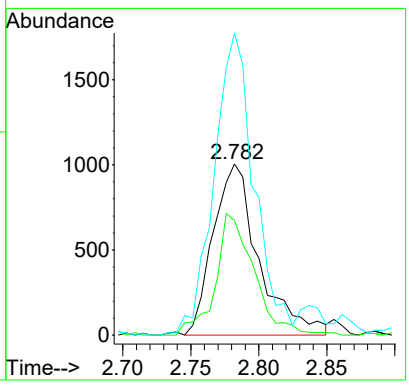


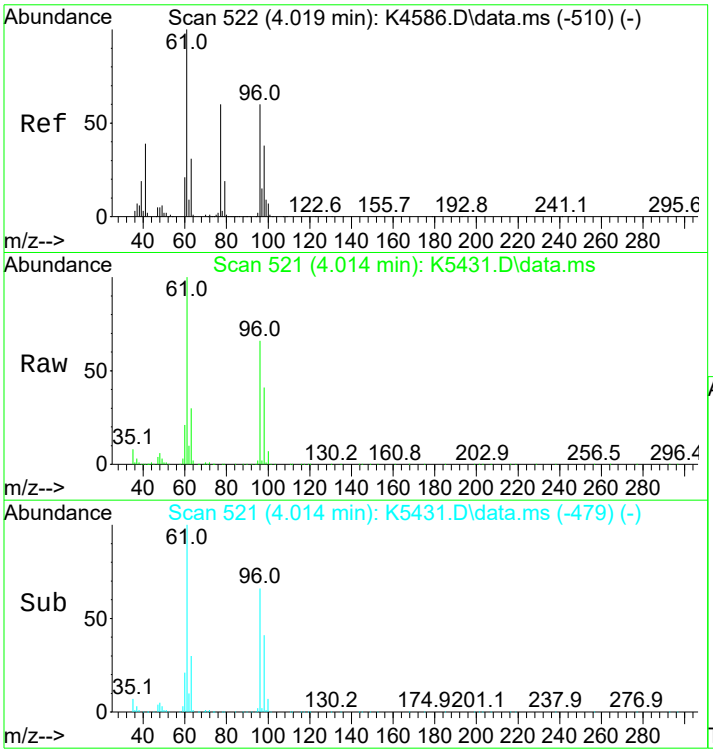


#26
trans-1,2-Dichloroethene
Concen: 0.65 ug/L
RT: 2.782 min Scan# 319
Delta R.T. 0.000 min
Lab File: K5431.D
Acq: 31 Aug 2024 03:12 pm

Tgt Ion: 96 Resp: 2347

Ion	Ratio	Lower	Upper
96	100		
98	67.1	45.1	85.1
61	176.4	154.0	194.0

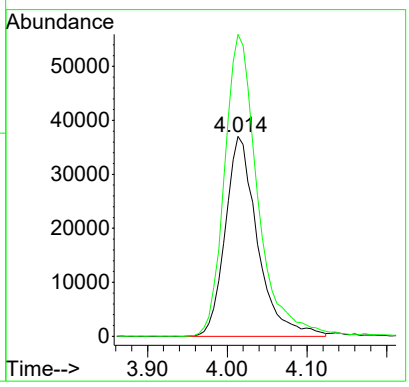


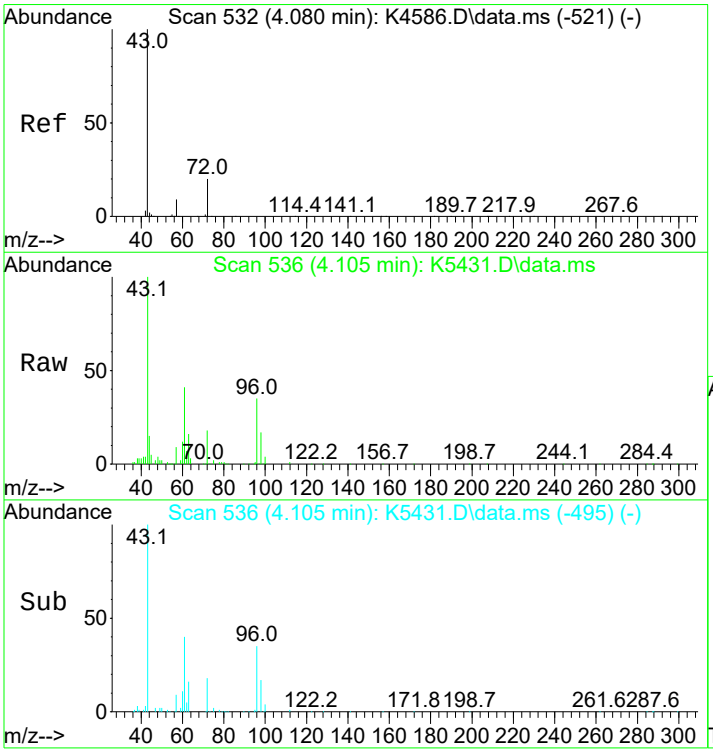


#33
cis-1,2-Dichloroethene
Concen: 24.84 ug/L
RT: 4.014 min Scan# 521
Delta R.T. -0.006 min
Lab File: K5431.D
Acq: 31 Aug 2024 03:12 pm

Tgt Ion: 96 Resp: 104162

Ion	Ratio	Lower	Upper
96	100		
61	151.2	147.9	187.9

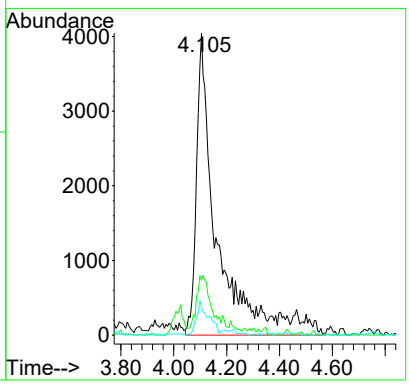


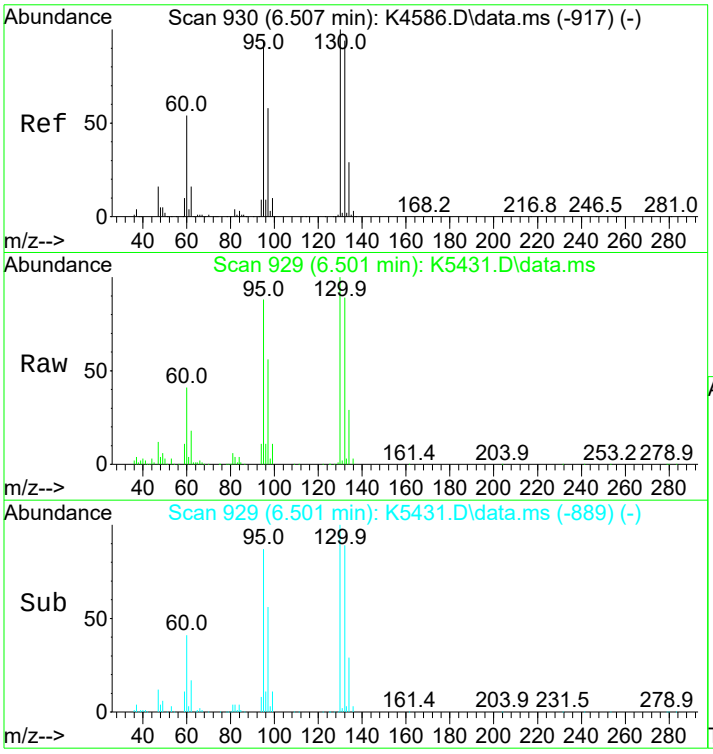


#34
2-Butanone
Concen: 5.96 ug/L m
RT: 4.105 min Scan# 536
Delta R.T. 0.025 min
Lab File: K5431.D
Acq: 31 Aug 2024 03:12 pm

Tgt Ion: 43 Resp: 22065

Ion	Ratio	Lower	Upper
43	100		
72	18.1	1.2	41.2
57	9.2	0.0	29.2

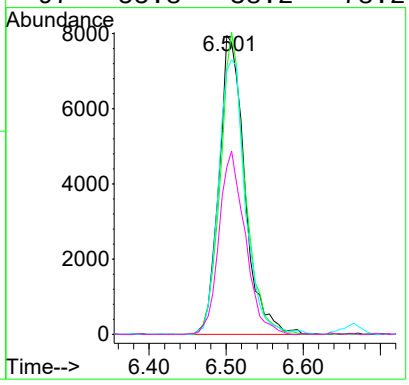


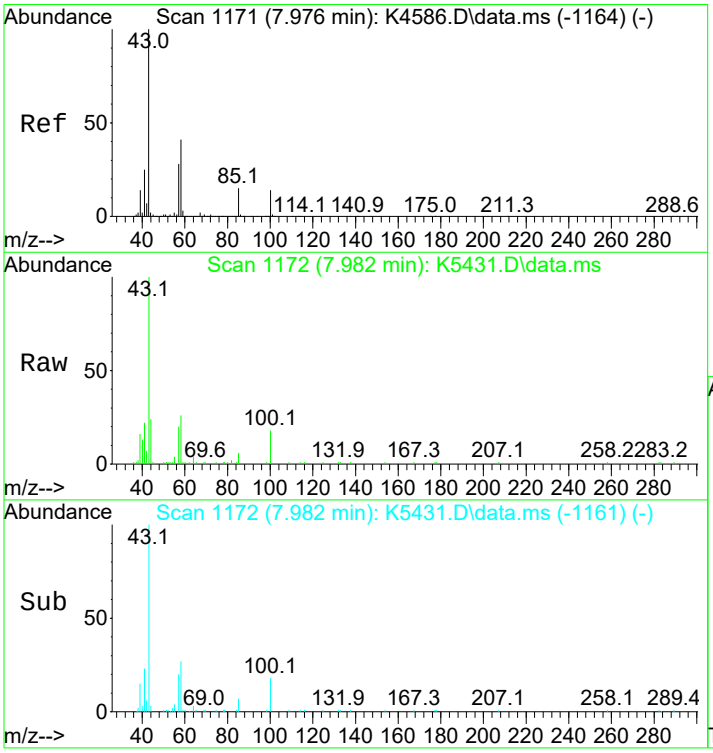


#53
Trichloroethene
Concen: 4.58 ug/L
RT: 6.501 min Scan# 929
Delta R.T. -0.006 min
Lab File: K5431.D
Acq: 31 Aug 2024 03:12 pm

Tgt Ion:130 Resp: 18491

Ion	Ratio	Lower	Upper
130	100		
132	89.0	74.0	114.0
95	88.2	74.1	114.1
97	55.8	38.2	78.2

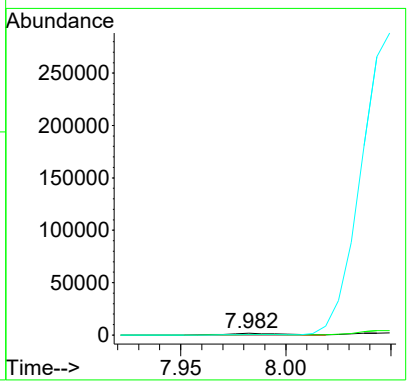


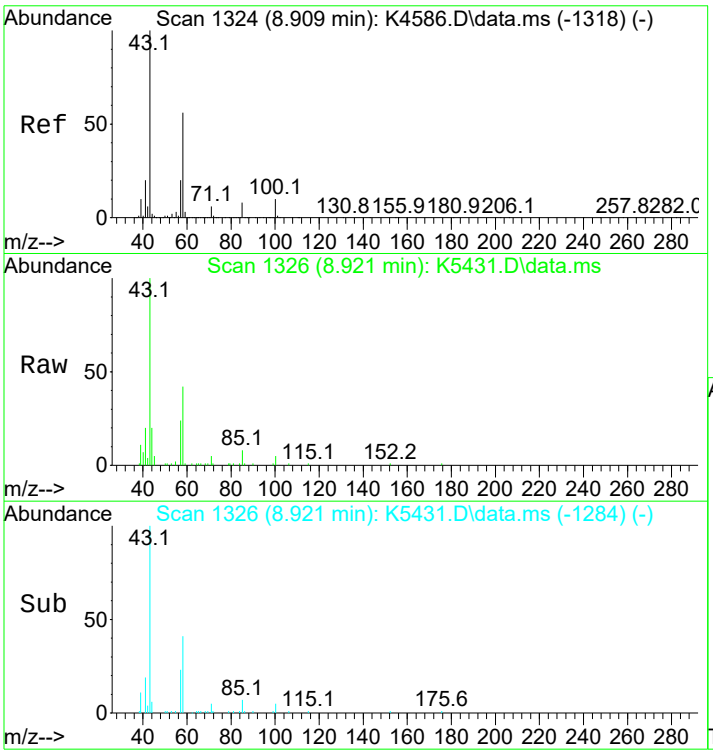


#63
4-Methyl-2-pentanone
Concen: 0.45 ug/L
RT: 7.982 min Scan# 1172
Delta R.T. 0.006 min
Lab File: K5431.D
Acq: 31 Aug 2024 03:12 pm

Tgt Ion: 43 Resp: 2931

Ion	Ratio	Lower	Upper
43	100		
58	25.7	21.3	61.3
100	17.6	0.0	33.7

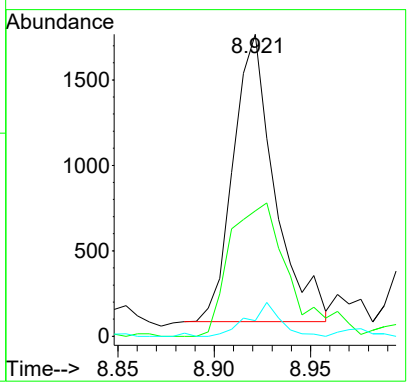


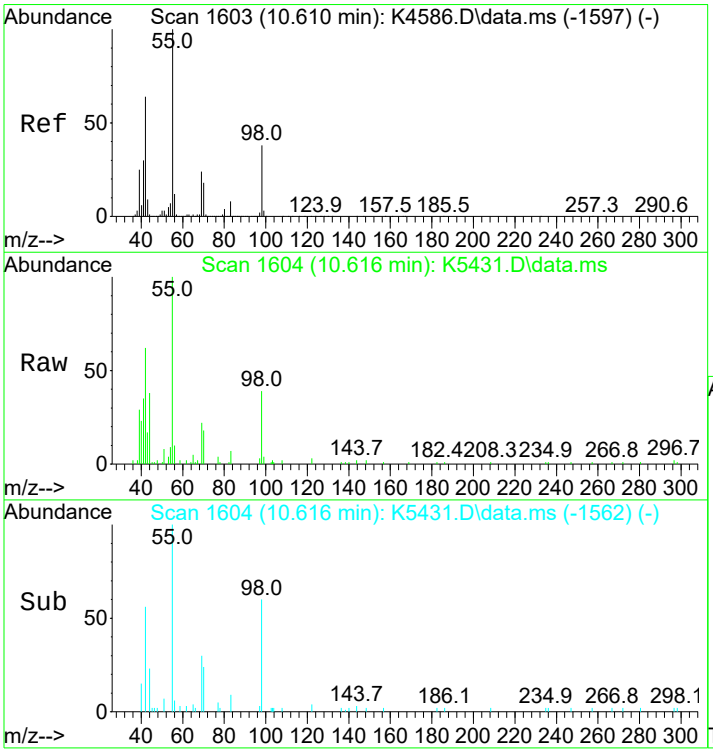


#72
2-Hexanone
Concen: 0.50 ug/L
RT: 8.921 min Scan# 1326
Delta R.T. 0.012 min
Lab File: K5431.D
Acq: 31 Aug 2024 03:12 pm

Tgt Ion: 43 Resp: 2503

Ion	Ratio	Lower	Upper
43	100		
58	41.5	35.9	75.9
100	5.2	0.0	30.1

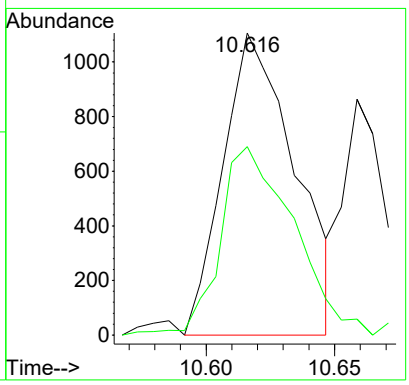


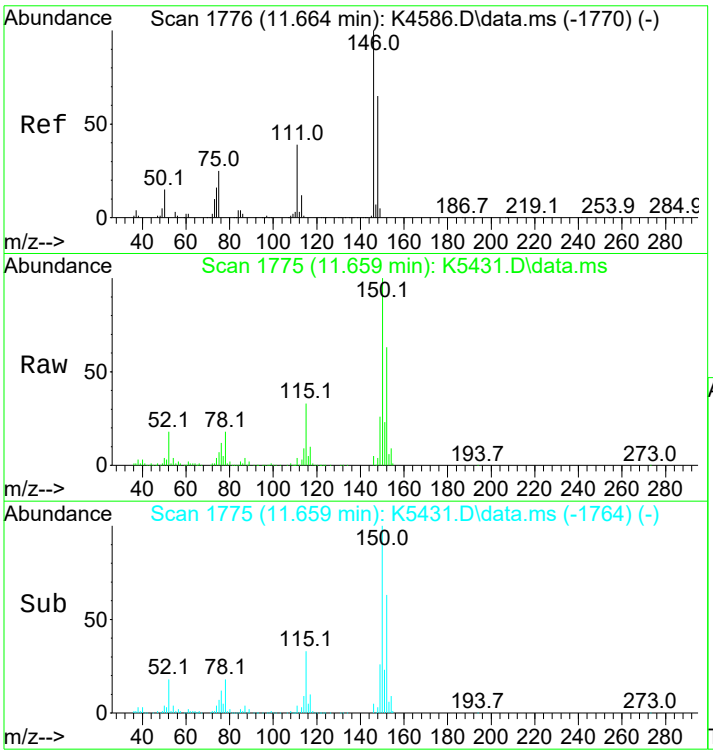


#88
Cyclohexanone
Concen: 1.72 ug/L
RT: 10.616 min Scan# 1604
Delta R.T. 0.006 min
Lab File: K5431.D
Acq: 31 Aug 2024 03:12 pm

Tgt Ion: 55 Resp: 2146

Ion	Ratio	Lower	Upper
55	100		
42	62.4	44.5	84.5

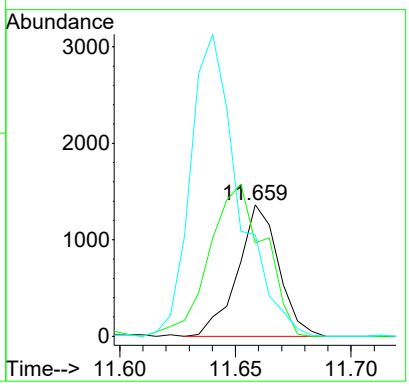




#105
1,4-Dclbenz
Concen: 0.20 ug/L
RT: 11.659 min Scan# 1775
Delta R.T. -0.006 min
Lab File: K5431.D
Acq: 31 Aug 2024 03:12 pm

Tgt Ion:146 Resp: 1668

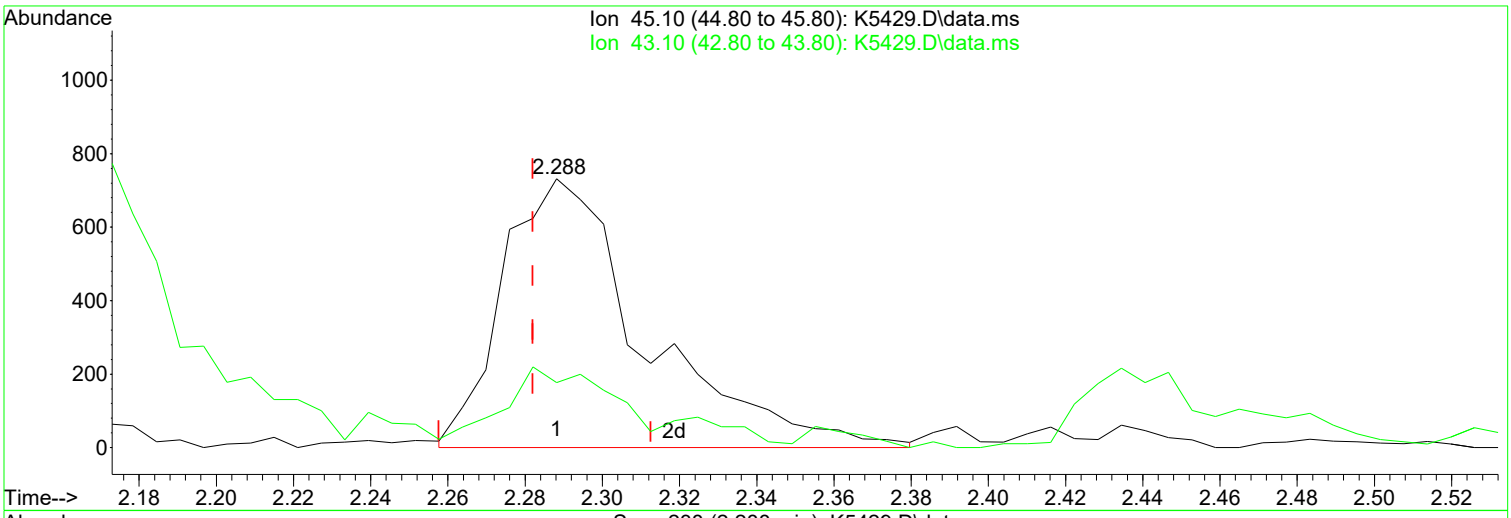
Ion	Ratio	Lower	Upper
146	100		
148	71.1	44.8	84.8
111	77.4	18.8	58.8#

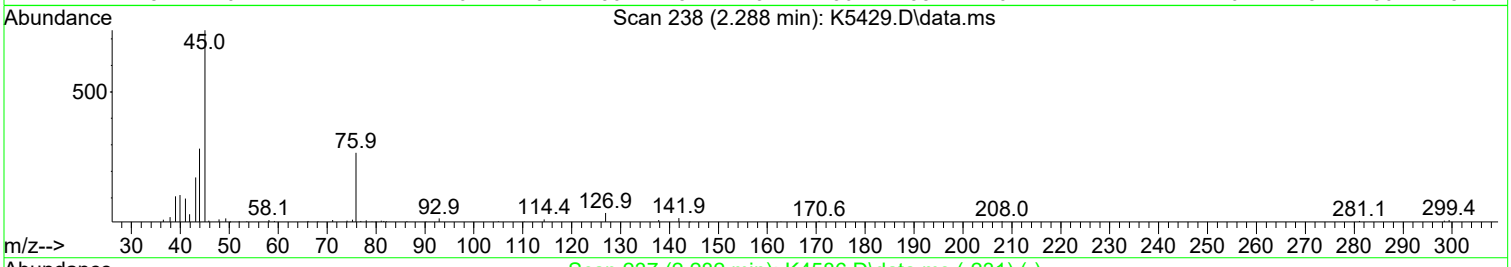


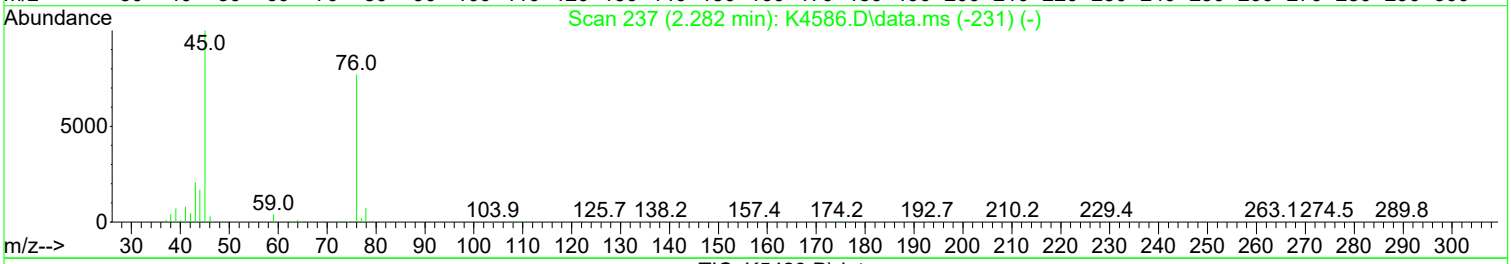
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5429.D
Acq On : 31 Aug 2024 02:25 pm
Operator : F.NAEGLER
Sample : R2408139-005
Misc : CEC 26473 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 01 11:40:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5429.D\data.ms

(17) 2-Propanol

2.288min (+ 0.006) 3.16 ug/L m

response 1882

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	21.40	24.18
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

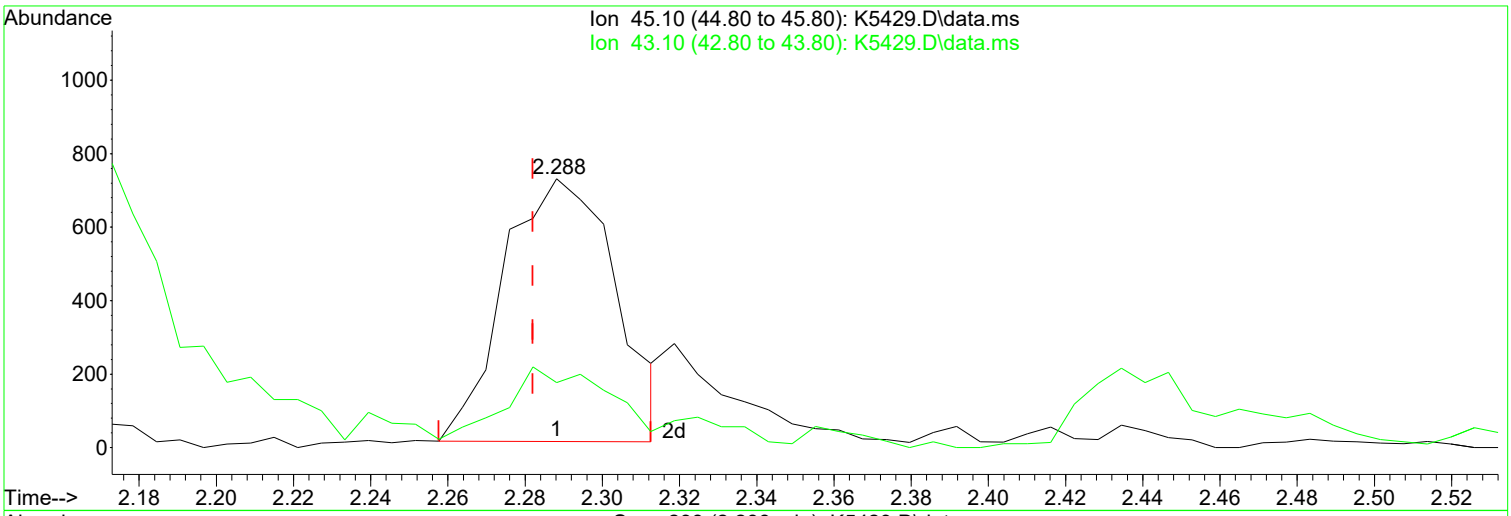
Poor integration.

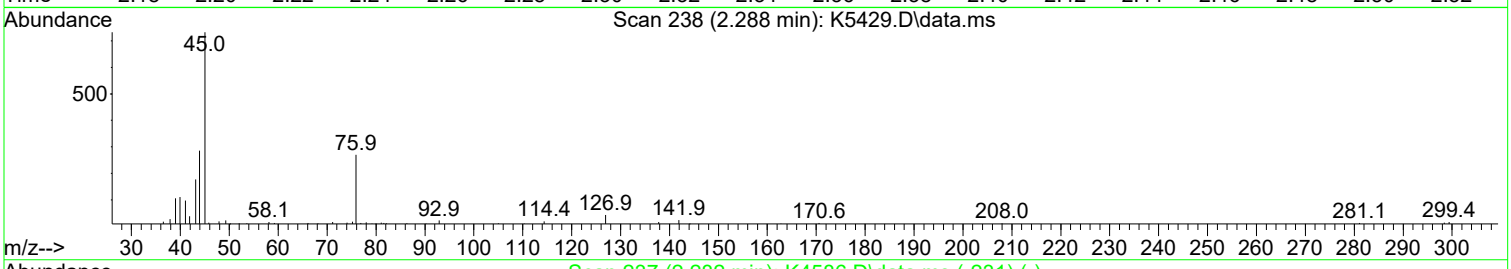
09/02/24

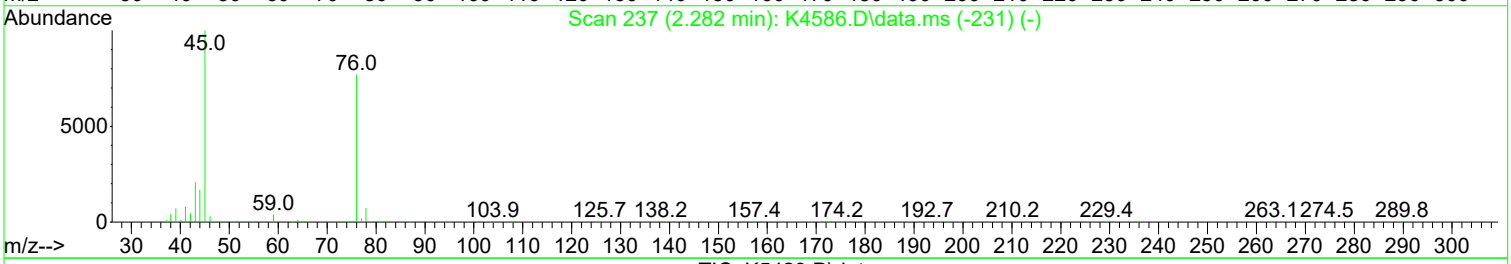
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5429.D
Acq On : 31 Aug 2024 02:25 pm
Operator : F.NAEGLER
Sample : R2408139-005
Misc : CEC 26473 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 01 11:40:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5429.D\data.ms

(17) 2-Propanol

2.288min (+ 0.006) 2.41 ug/L

response 1431

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	21.40	23.69
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/02/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5429.D
Acq On : 31 Aug 2024 02:25 pm
Operator : F.NAEGLER
Sample : R2408139-005
Misc : CEC 26473 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 01 11:40:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

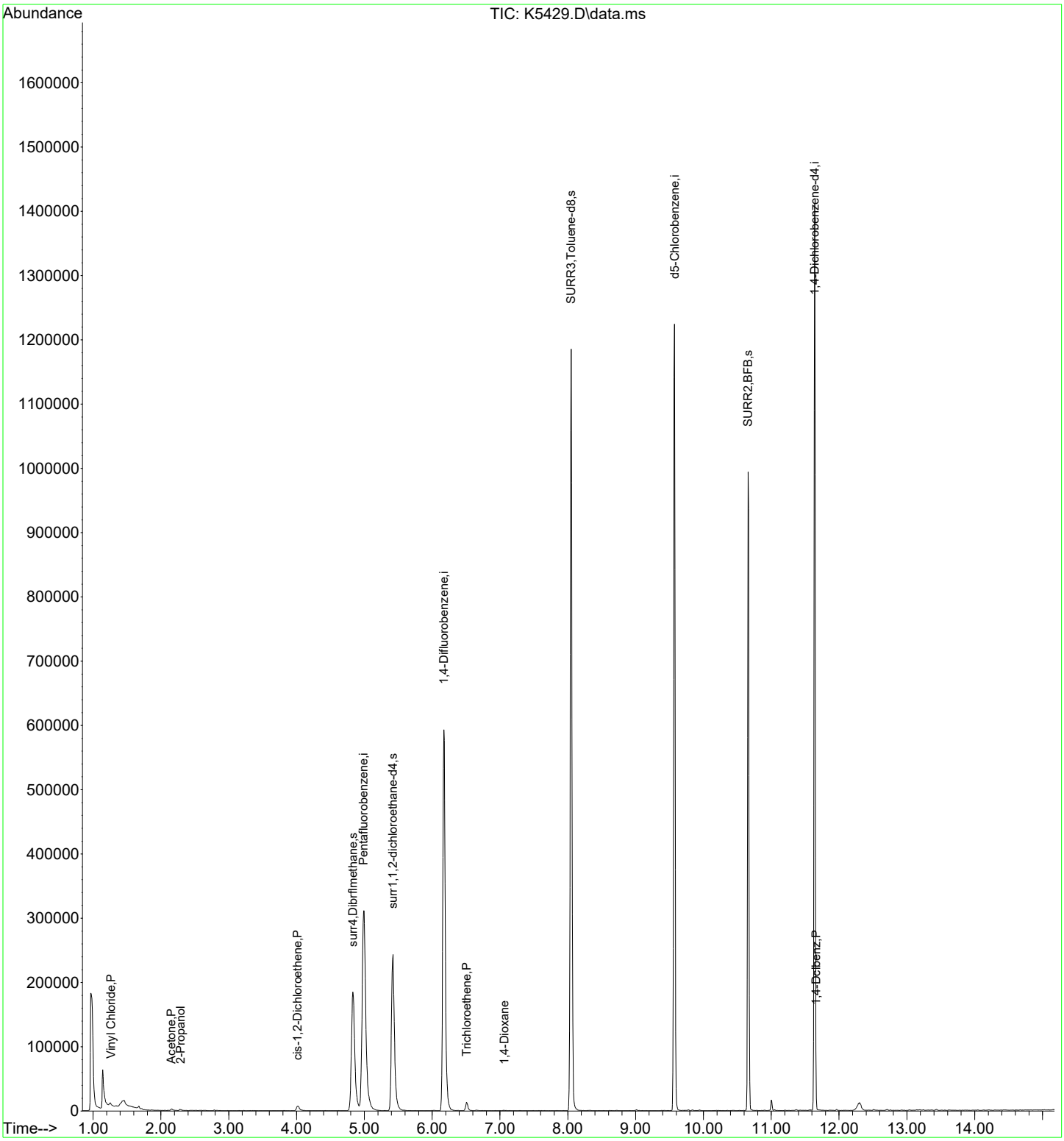
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	4.989	168	376777	50.00 ug/L	0.00
42) 1,4-Difluorobenzene	6.172	114	626098	50.00 ug/L	0.00
70) d5-Chlorobenzene	9.573	117	563404	50.00 ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	254648	50.00 ug/L	# 0.00
System Monitoring Compounds					
44) surr4,Dibrflmethane	4.830	113	200581	51.36 ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 102.72%		
47) surr1,1,2-dichloroetha...	5.422	65	276476	51.79 ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 103.58%		
64) SURR3,Toluene-d8	8.049	98	754016	52.61 ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 105.22%		
69) SURR2,BFB	10.659	95	274996	48.80 ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 97.60%		
Target Compounds					Qvalue
5) Vinyl Chloride	1.264	62	1336	0.255 ug/L #	1
6) Bromomethane	1.465	94	446	Below Cal	91
16) Acetone	2.154	43	3143	1.042 ug/L	95
17) 2-Propanol	2.288	45	1882m	3.164 ug/L	
33) cis-1,2-Dichloroethene	4.013	96	4841	1.188 ug/L	99
53) Trichloroethene	6.507	130	5415	1.364 ug/L	92
57) 1,4-Dioxane	7.062	88	314	3.616 ug/L	91
105) 1,4-Dclbenz	11.658	146	1767	0.225 ug/L	75

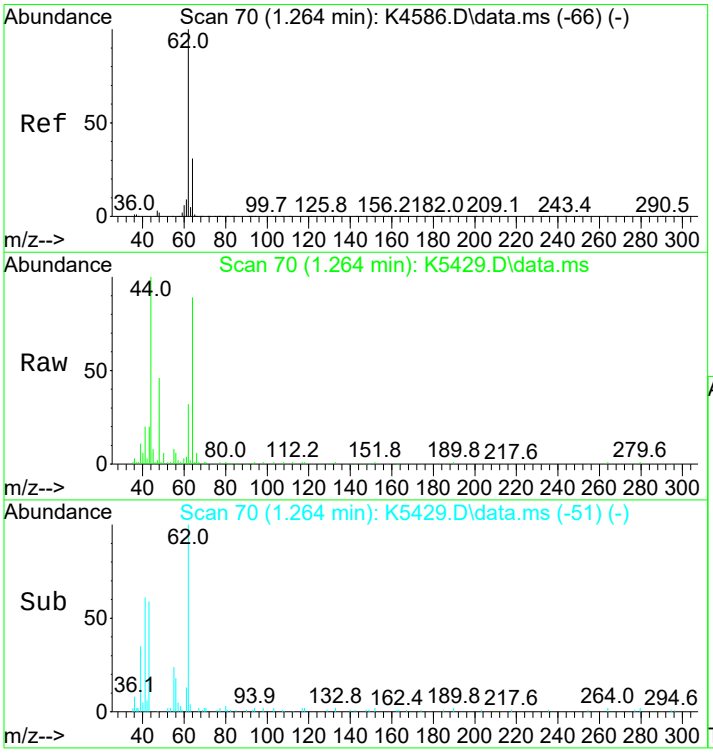
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5429.D
Acq On : 31 Aug 2024 02:25 pm
Operator : F.NAEGLER
Sample : R2408139-005
Misc : CEC 26473 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 01 11:40:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

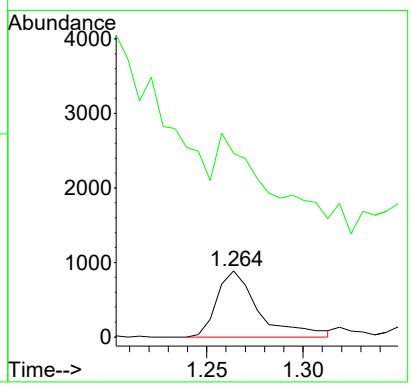


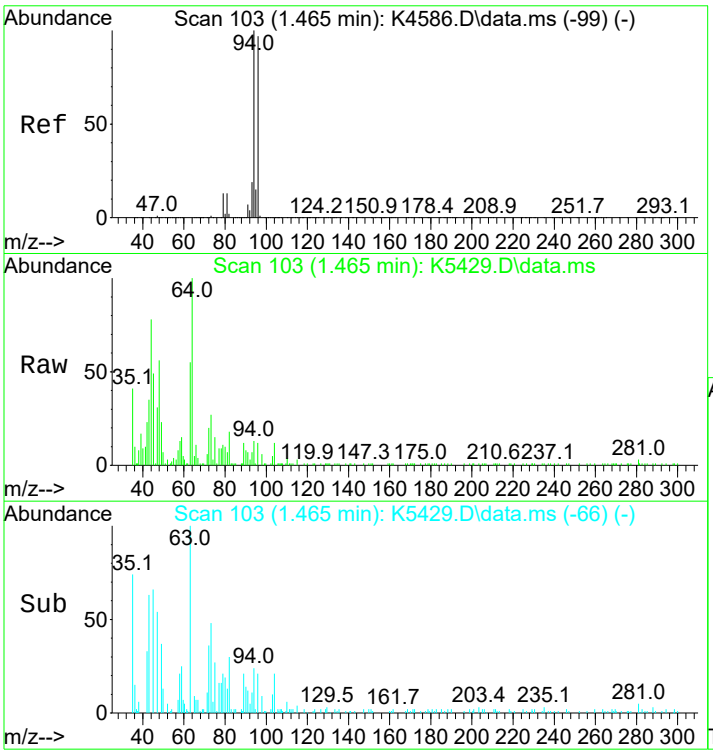


#5
Vinyl Chloride
Concen: 0.25 ug/L
RT: 1.264 min Scan# 70
Delta R.T. 0.000 min
Lab File: K5429.D
Acq: 31 Aug 2024 02:25 pm

Tgt Ion: 62 Resp: 1336

Ion	Ratio	Lower	Upper
62	100		
64	276.9	10.9	50.9#

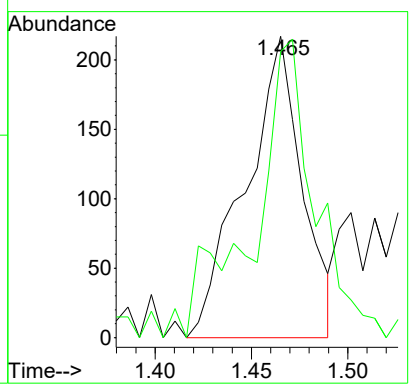


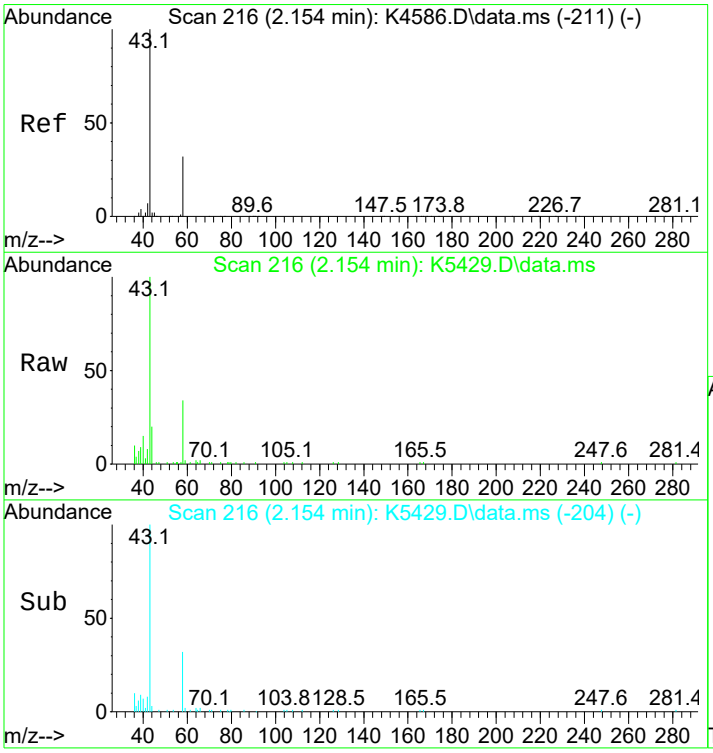


#6
Bromomethane
Concen: Below Cal
RT: 1.465 min Scan# 103
Delta R.T. 0.000 min
Lab File: K5429.D
Acq: 31 Aug 2024 02:25 pm

Tgt Ion: 94 Resp: 446

Ion	Ratio	Lower	Upper
94	100		
96	87.3	76.6	116.6

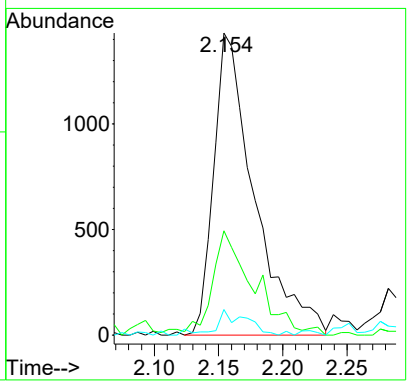


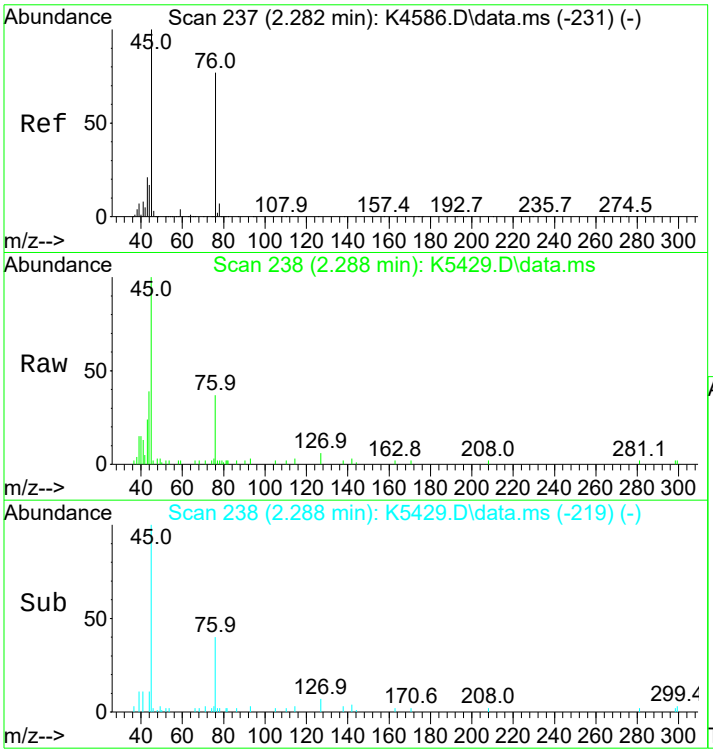


#16
Acetone
Concen: 1.04 ug/L
RT: 2.154 min Scan# 216
Delta R.T. 0.000 min
Lab File: K5429.D
Acq: 31 Aug 2024 02:25 pm

Tgt Ion: 43 Resp: 3143

Ion	Ratio	Lower	Upper
43	100		
58	34.5	11.5	51.5
42	8.4	0.0	27.3

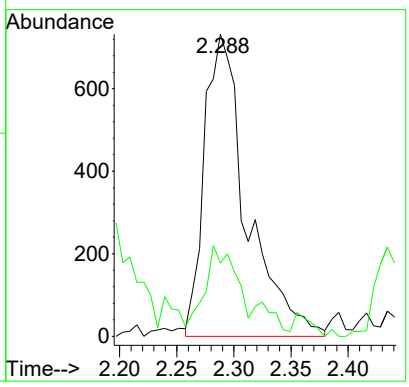


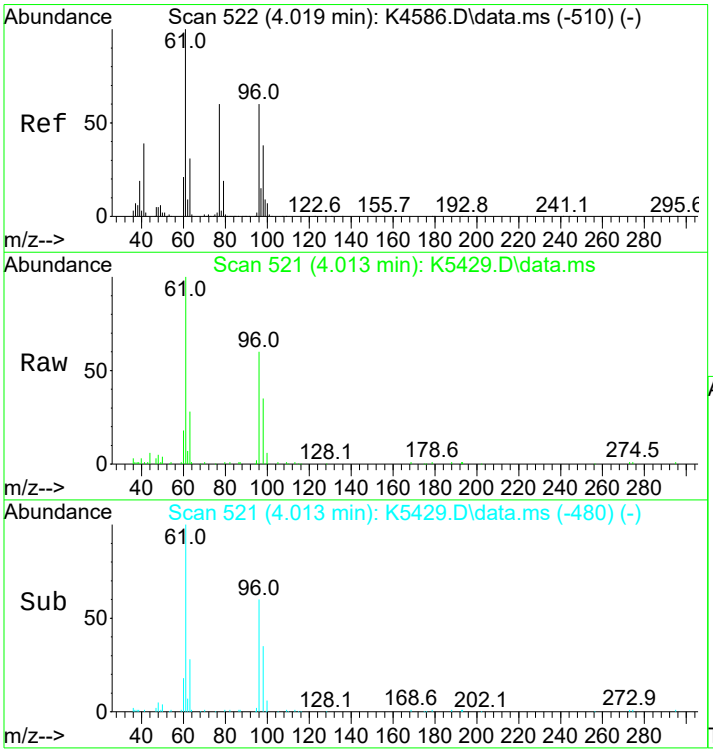


#17
2-Propanol
Concen: 3.16 ug/L m
RT: 2.288 min Scan# 238
Delta R.T. 0.006 min
Lab File: K5429.D
Acq: 31 Aug 2024 02:25 pm

Tgt Ion: 45 Resp: 1882

Ion	Ratio	Lower	Upper
45	100		
43	24.2	1.4	41.4

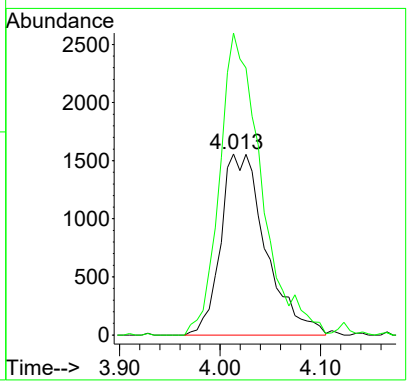


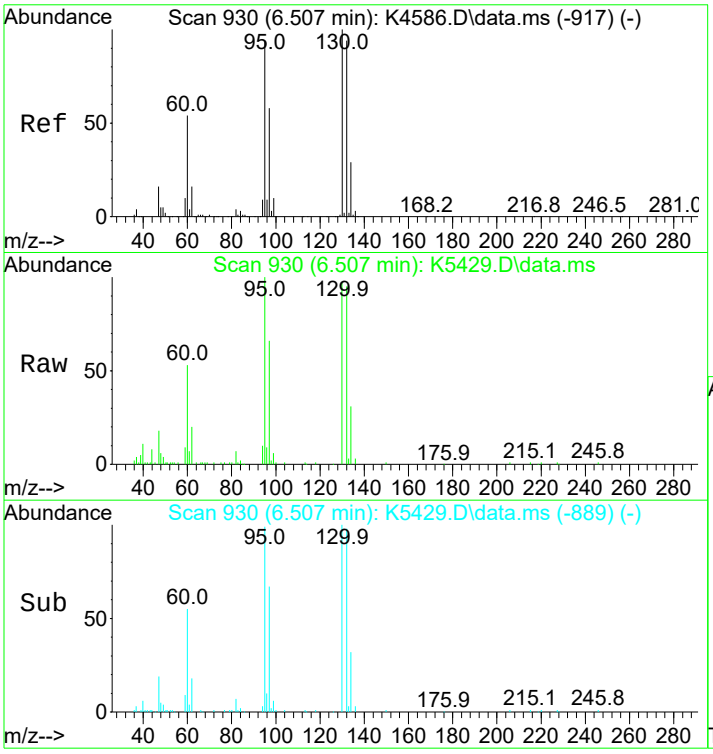


#33
cis-1,2-Dichloroethene
Concen: 1.19 ug/L
RT: 4.013 min Scan# 521
Delta R.T. -0.006 min
Lab File: K5429.D
Acq: 31 Aug 2024 02:25 pm

Tgt Ion: 96 Resp: 4841

Ion	Ratio	Lower	Upper
96	100		
61	166.8	147.9	187.9

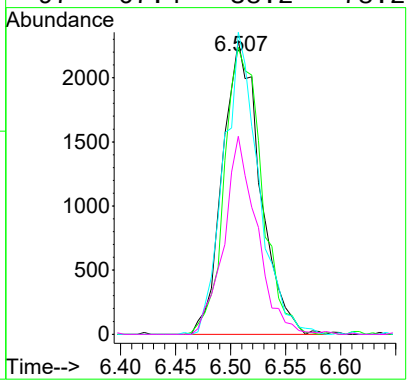


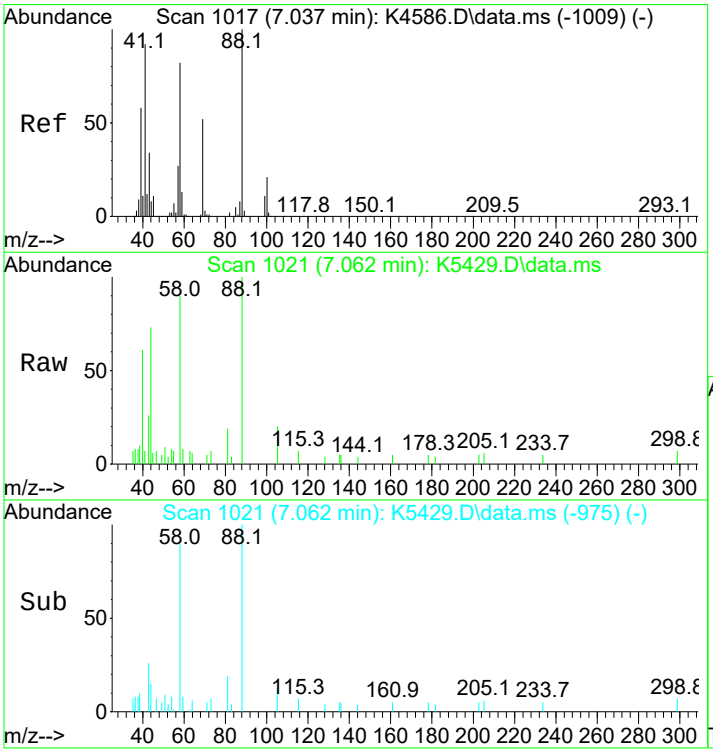


#53
Trichloroethene
Concen: 1.36 ug/L
RT: 6.507 min Scan# 930
Delta R.T. 0.000 min
Lab File: K5429.D
Acq: 31 Aug 2024 02:25 pm

Tgt Ion:130 Resp: 5415

Ion	Ratio	Lower	Upper
130	100		
132	97.6	74.0	114.0
95	102.8	74.1	114.1
97	67.4	38.2	78.2

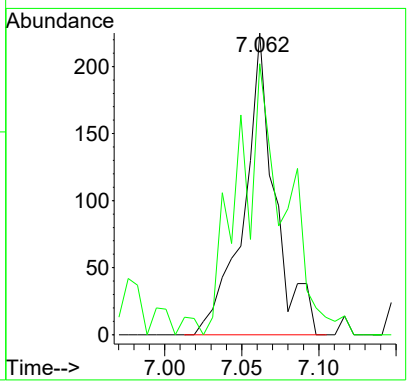


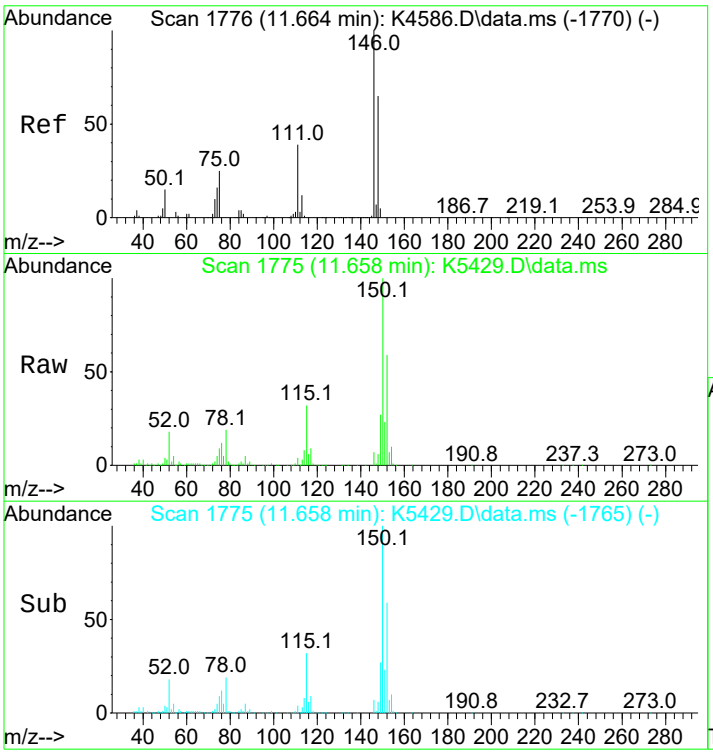


#57
1,4-Dioxane
Concen: 3.62 ug/L
RT: 7.062 min Scan# 1021
Delta R.T. 0.024 min
Lab File: K5429.D
Acq: 31 Aug 2024 02:25 pm

Tgt Ion: 88 Resp: 314

Ion	Ratio	Lower	Upper
88	100		
58	89.8	61.9	101.9

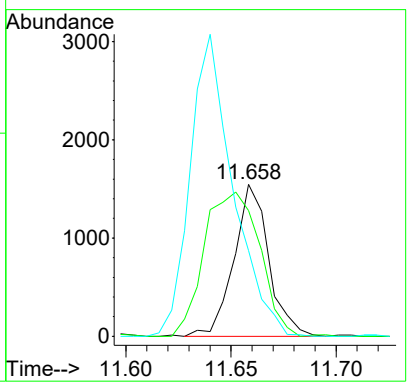




#105
1,4-Dclbenz
Concen: 0.22 ug/L
RT: 11.658 min Scan# 1775
Delta R.T. -0.006 min
Lab File: K5429.D
Acq: 31 Aug 2024 02:25 pm

Tgt Ion:146 Resp: 1767

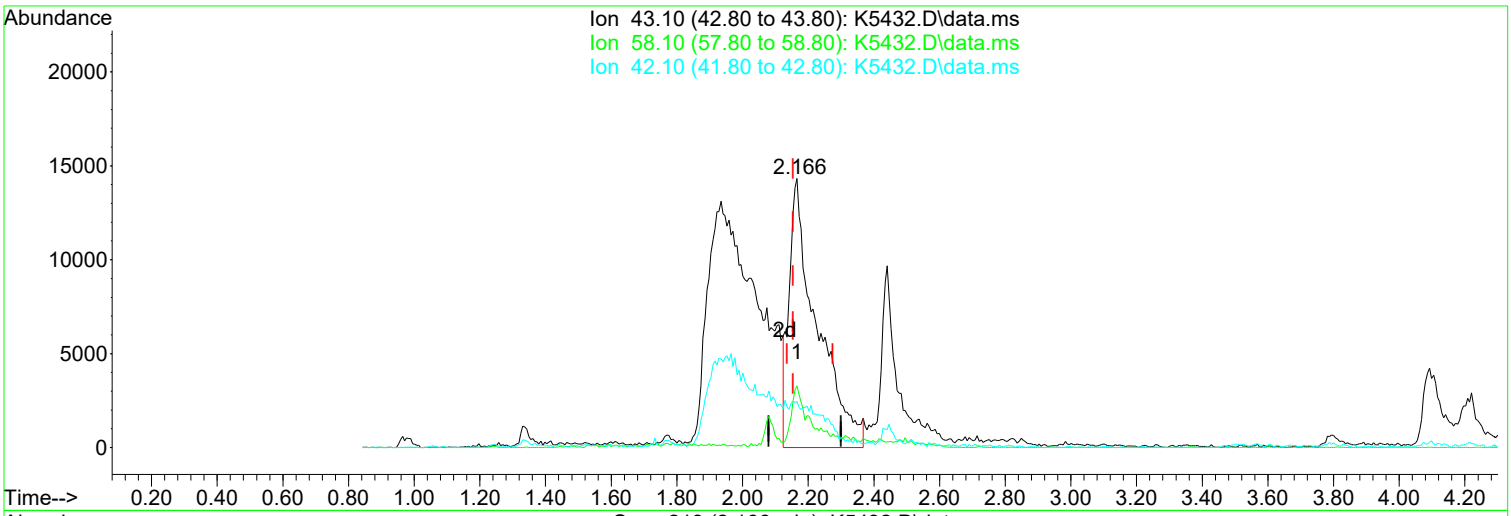
Ion	Ratio	Lower	Upper
146	100		
148	82.7	44.8	84.8
111	56.3	18.8	58.8

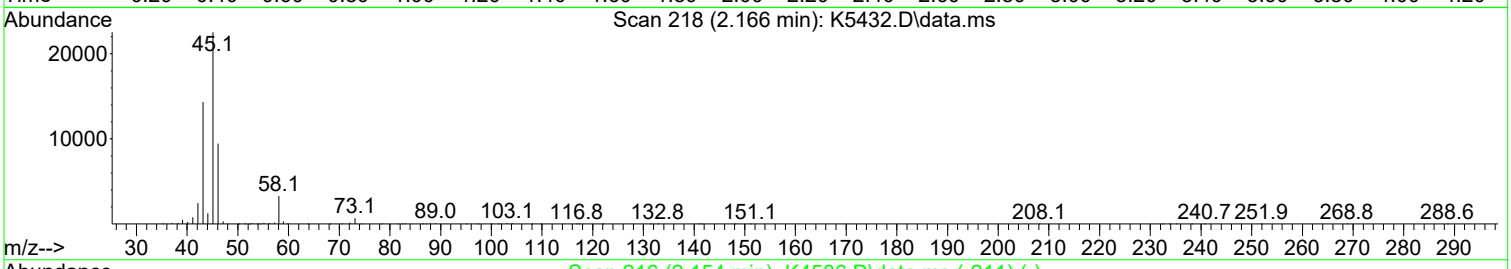


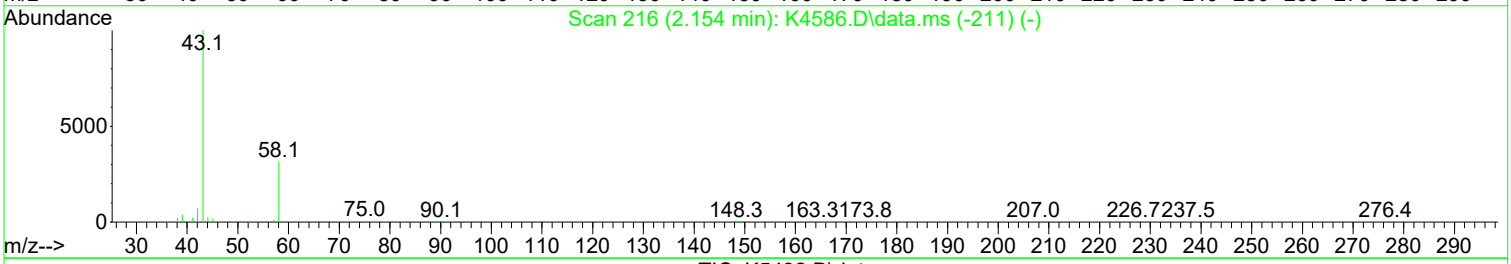
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5432.D
Acq On : 31 Aug 2024 03:35 pm
Operator : F.NAEGLER
Sample : R2408139-007
Misc : CEC 26473 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 01 11:42:36 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5432.D\data.ms

(16) Acetone (P)

2.166min (+ 0.012) 27.20 ug/L m

response 84027

Ion	Exp%	Act%
43.10	100.00	100.00
58.10	31.50	23.01
42.10	7.30	17.17
0.00	0.00	0.00

Manual Integration:

After

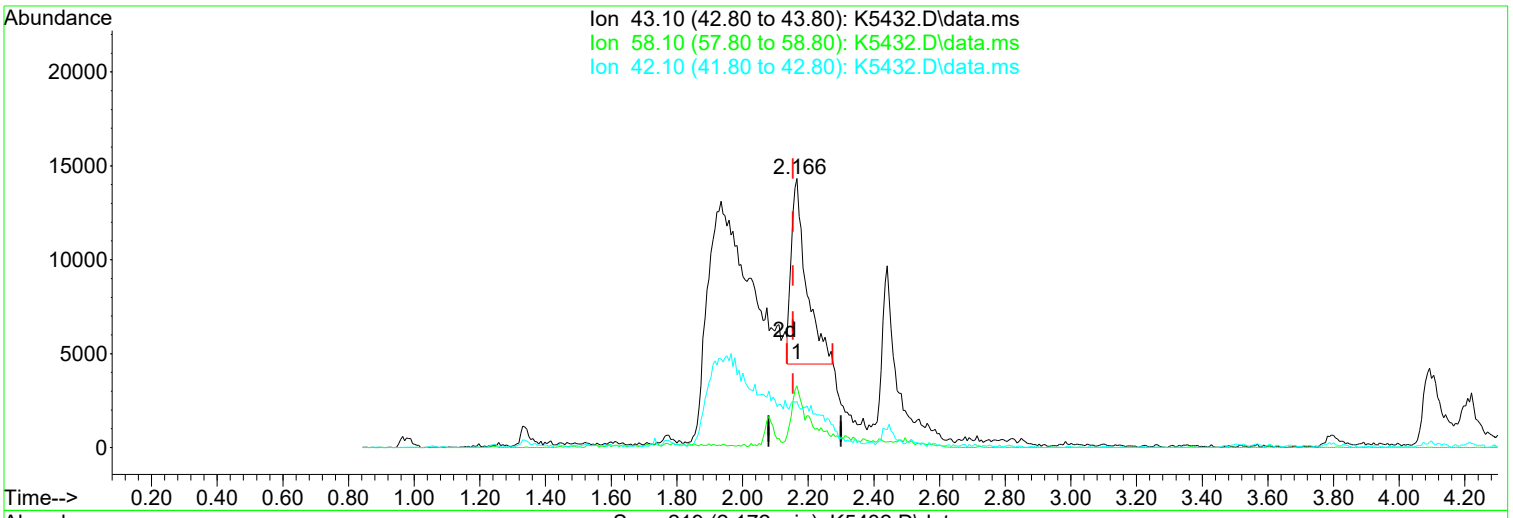
Poor integration.

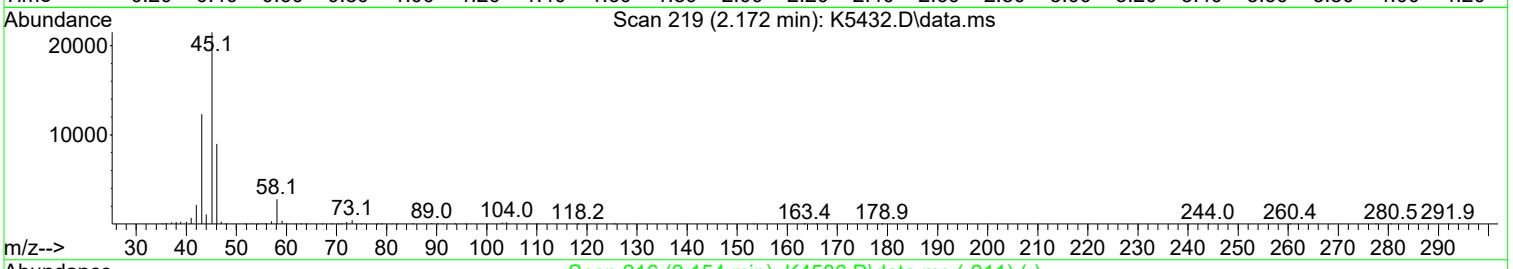
09/02/24

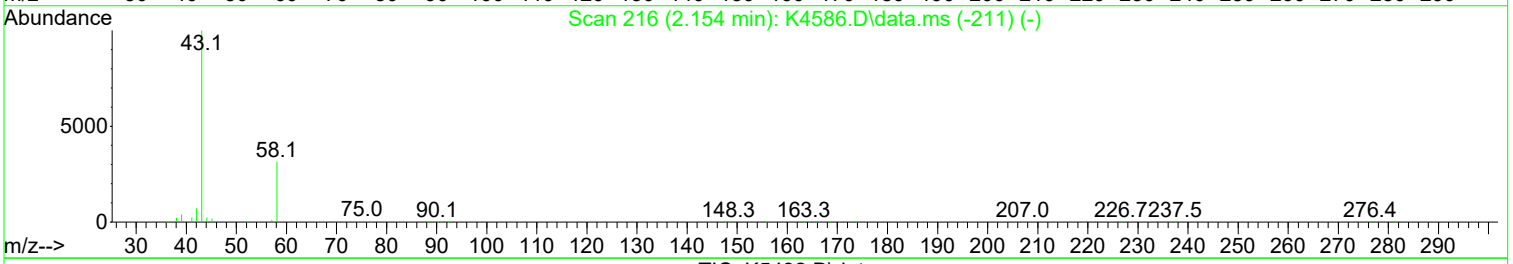
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5432.D
Acq On : 31 Aug 2024 03:35 pm
Operator : F.NAEGLER
Sample : R2408139-007
Misc : CEC 26473 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 01 11:42:36 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5432.D\data.ms

(16) Acetone (P)

2.166min (+ 0.012) 10.16 ug/L

response 31403

Ion	Exp%	Act%
43.10	100.00	100.00
58.10	31.50	23.01
42.10	7.30	17.17
0.00	0.00	0.00

Manual Integration:

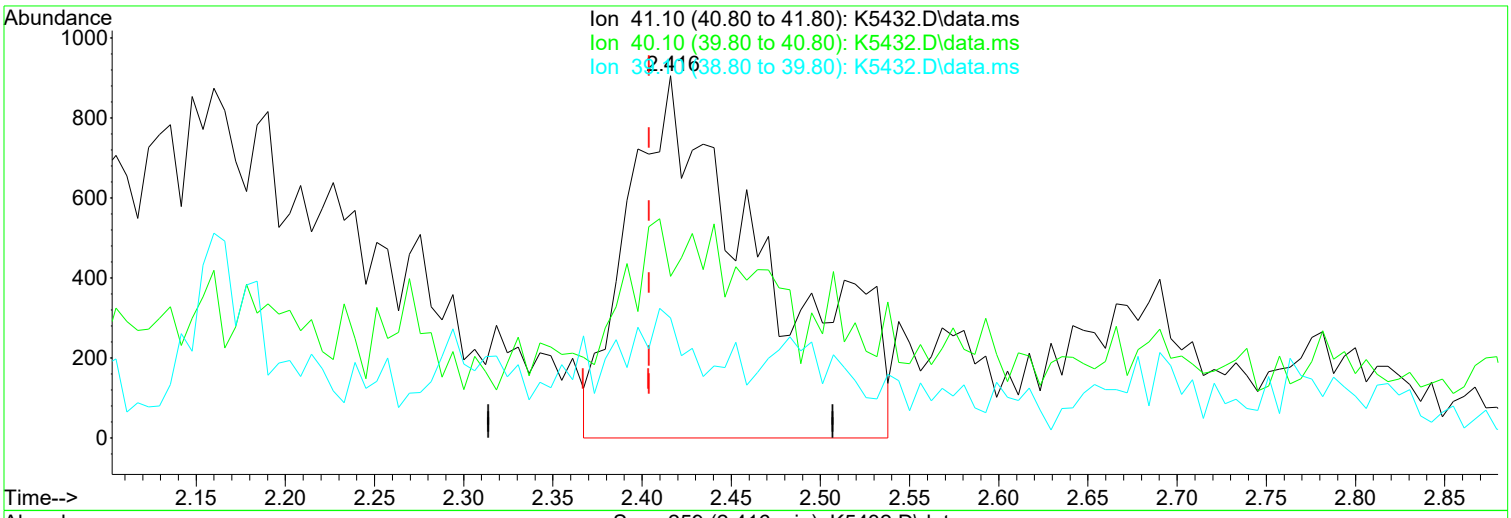
Before

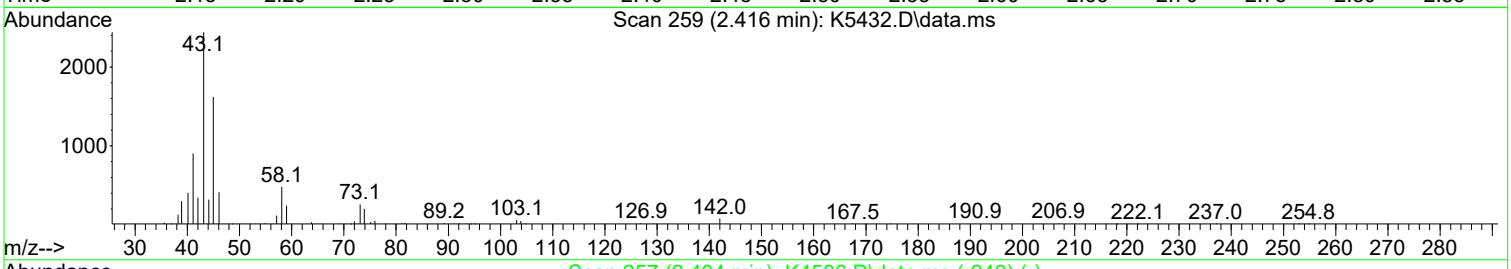
09/02/24

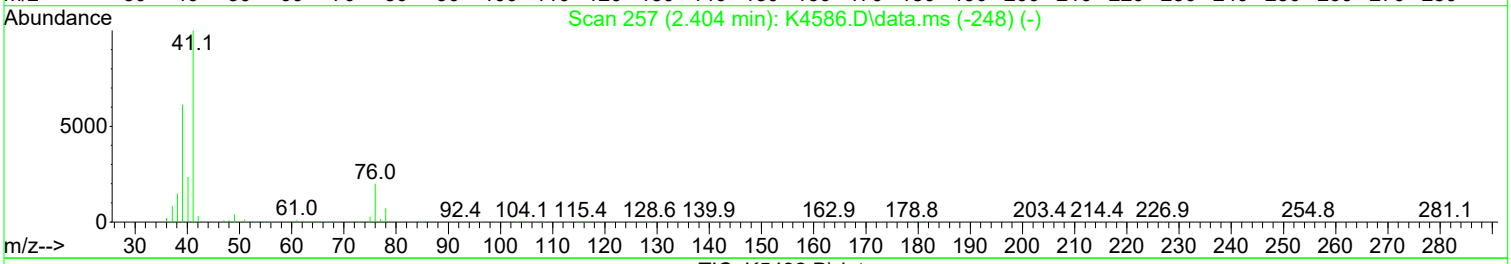
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5432.D
Acq On : 31 Aug 2024 03:35 pm
Operator : F.NAEGLER
Sample : R2408139-007
Misc : CEC 26473 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 01 11:42:36 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5432.D\data.ms

(20) Acetonitrile/Allyl Chloride

2.416min (+ 0.012) 2.97 ug/L m

response 4831

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	24.00	44.64#
39.10	61.30	33.15#
0.00	0.00	0.00

Manual Integration:

After

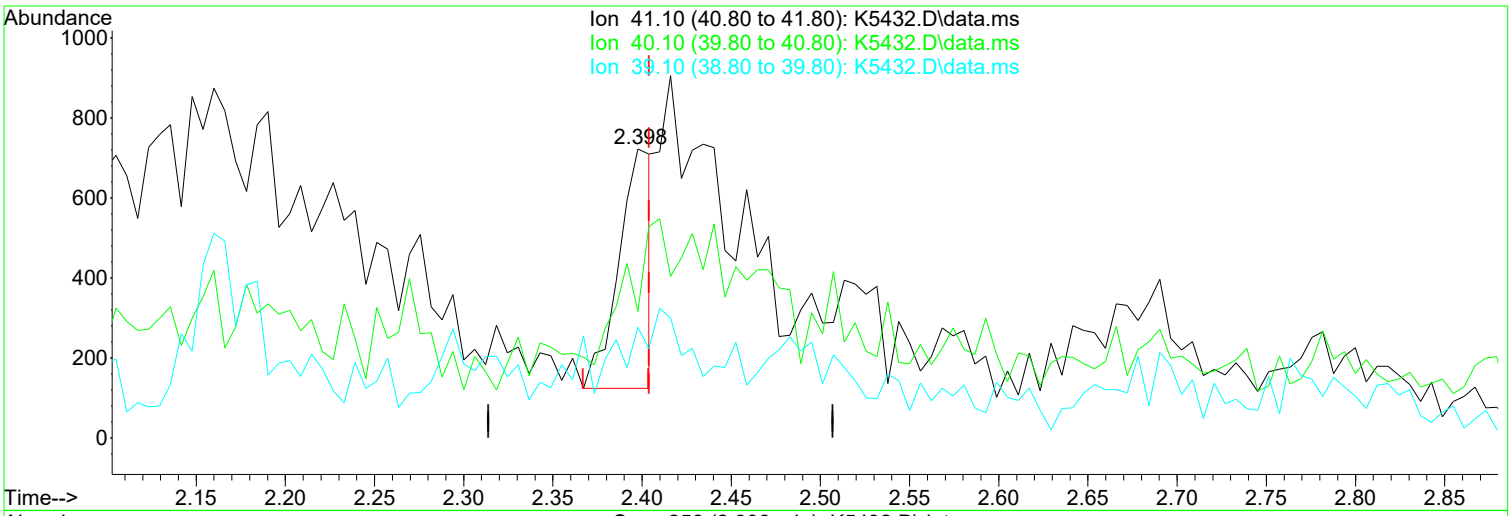
Poor integration.

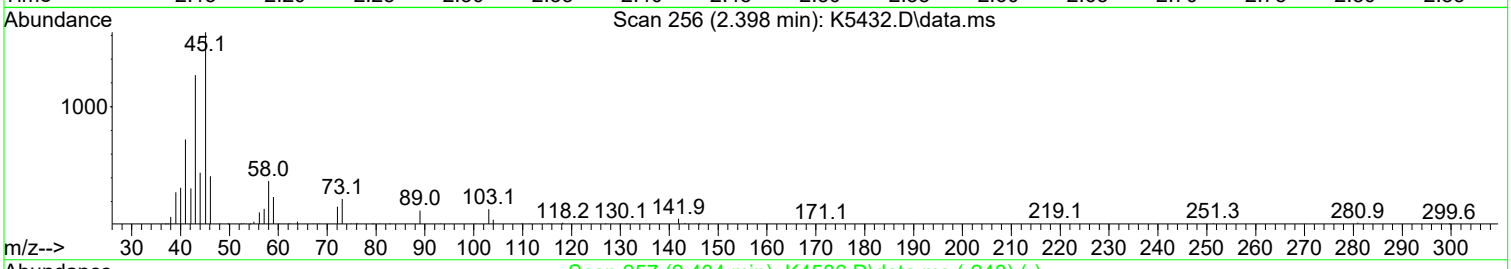
09/02/24

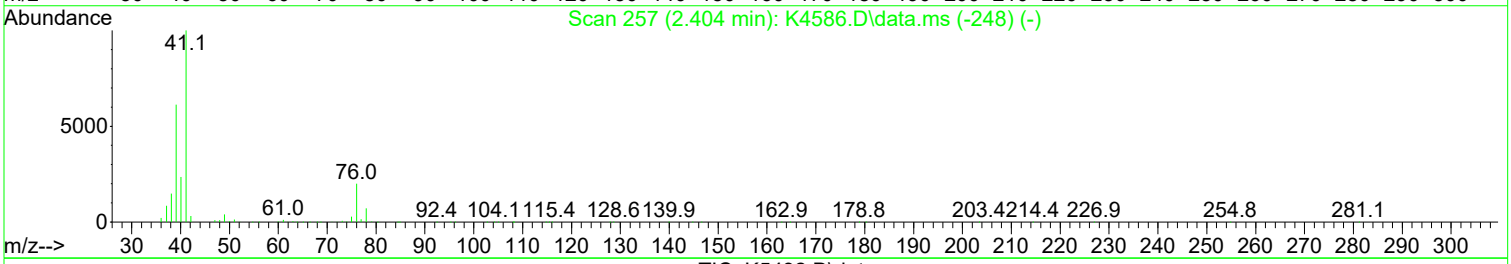
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5432.D
Acq On : 31 Aug 2024 03:35 pm
Operator : F.NAEGLER
Sample : R2408139-007
Misc : CEC 26473 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 01 11:42:36 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5432.D\data.ms

(20) Acetonitrile/Allyl Chloride

2.398min (-0.006) 0.47 ug/L

response 770

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	24.00	43.77
39.10	61.30	38.37#
0.00	0.00	0.00

Manual Integration:

Before

09/02/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5432.D
Acq On : 31 Aug 2024 03:35 pm
Operator : F.NAEGLER
Sample : R2408139-007
Misc : CEC 26473 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 01 11:42:36 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

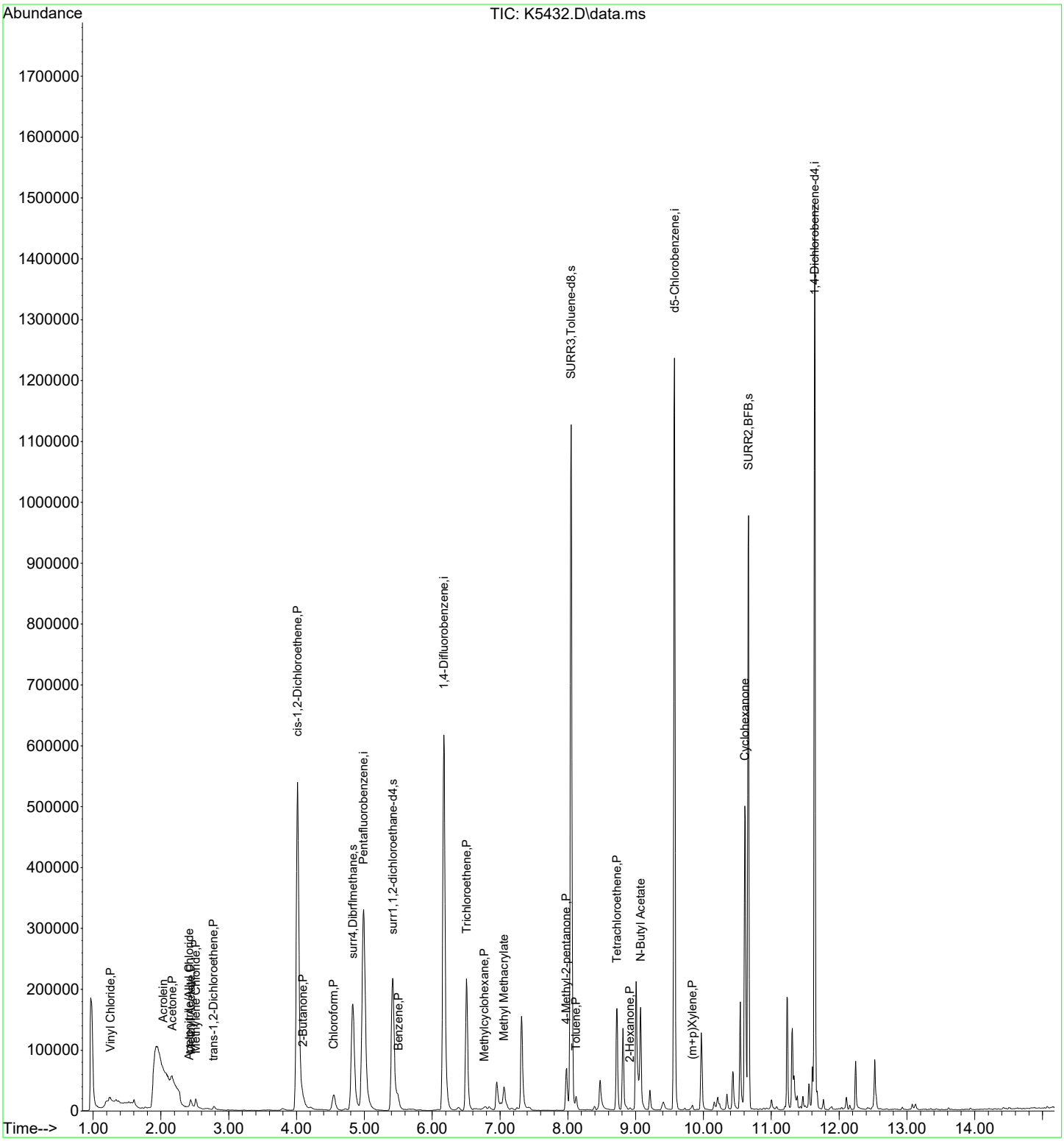
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.989	168	386013	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.171	114	641097	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.573	117	575427	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	266040	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.830	113	191904	47.99	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 95.98%			
47) surr1,1,2-dichloroetha...	5.421	65	258934	47.37	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 94.74%			
64) SURR3,Toluene-d8	8.049	98	715095	48.73	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 97.46%			
69) SURR2,BFB	10.664	95	269768	46.75	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 93.50%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.258	62	3662	0.681	ug/L #	1
13) Acrolein	2.032	56	1010	1.638	ug/L #	70
16) Acetone	2.166	43	84027m	27.196	ug/L	
20) Acetonitrile/Allyl Chl...	2.416	41	4831m	2.972	ug/L	
21) Methyl Acetate	2.440	43	19317	3.583	ug/L	99
22) Methylene Chloride	2.513	84	6051	0.848	ug/L	88
26) trans-1,2-Dichloroethene	2.776	96	1972	0.549	ug/L #	74
33) cis-1,2-Dichloroethene	4.013	96	338699	81.114	ug/L	90
34) 2-Butanone	4.092	43	15312	4.153	ug/L	92
39) Chloroform	4.544	83	33629	4.888	ug/L	94
48) Benzene	5.501	78	18588	1.356	ug/L	77
53) Trichloroethene	6.507	130	89073	21.909	ug/L	97
54) Methylcyclohexane	6.769	55	3570	0.617	ug/L #	17
58) Methyl Methacrylate	7.055	69	12770	3.682	ug/L	90
63) 4-Methyl-2-pentanone	7.976	43	51576	7.932	ug/L	97
65) Toluene	8.122	91	11294	0.726	ug/L	96
71) Tetrachloroethene	8.726	164	34580	12.187	ug/L	99
72) 2-Hexanone	8.915	43	1859	0.367	ug/L	93
75) N-Butyl Acetate	9.073	43	108125	11.118	ug/L	97
82) (m+p)Xylene	9.835	106	1869	0.280	ug/L	93
88) Cyclohexanone	10.610	55	203058	161.290	ug/L	98

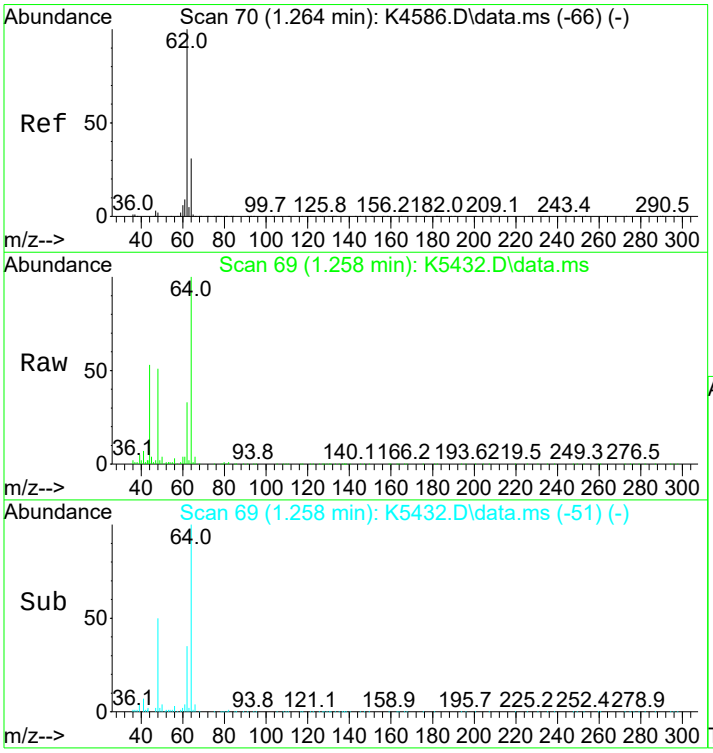
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5432.D
Acq On : 31 Aug 2024 03:35 pm
Operator : F.NAEGLER
Sample : R2408139-007
Misc : CEC 26473 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 01 11:42:36 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

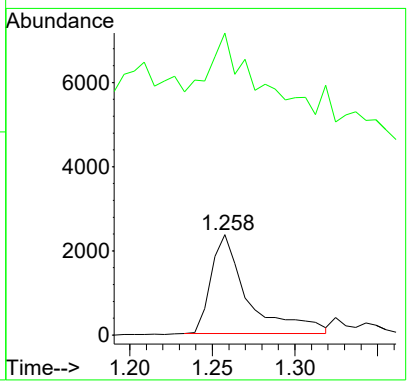


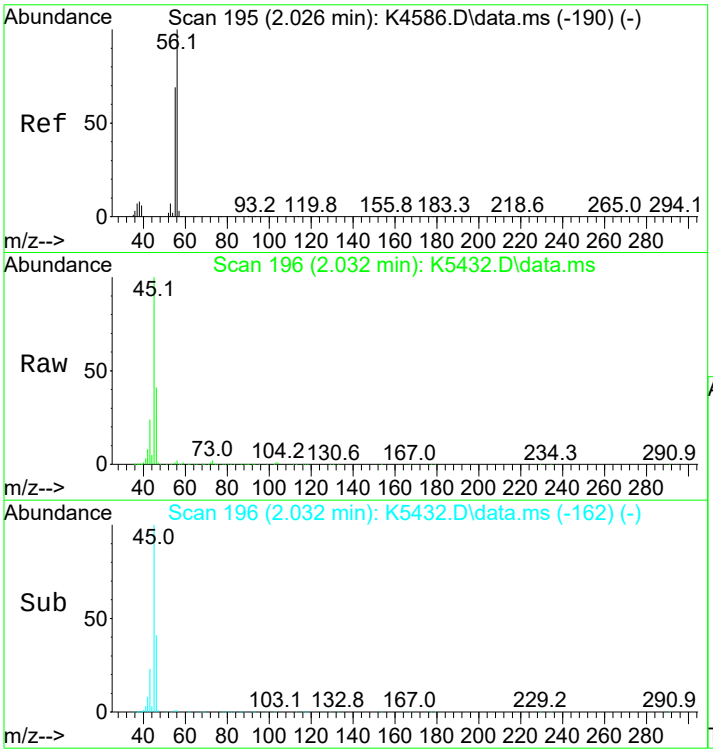


#5
Vinyl Chloride
Concen: 0.68 ug/L
RT: 1.258 min Scan# 69
Delta R.T. -0.006 min
Lab File: K5432.D
Acq: 31 Aug 2024 03:35 pm

Tgt Ion: 62 Resp: 3662

Ion	Ratio	Lower	Upper
62	100		
64	300.8	10.9	50.9#

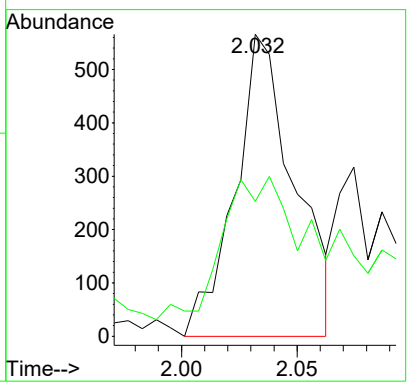


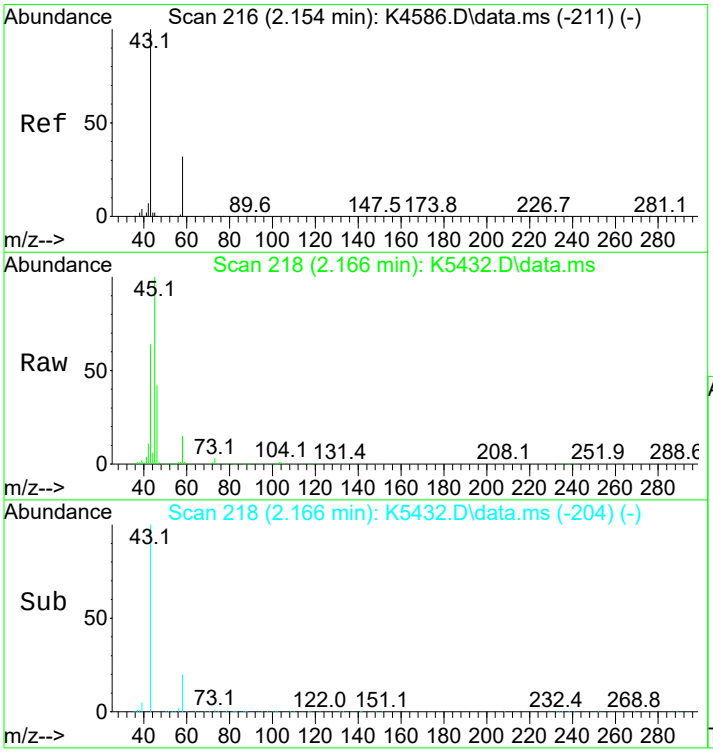


#13
Acrolein
Concen: 1.64 ug/L
RT: 2.032 min Scan# 196
Delta R.T. 0.006 min
Lab File: K5432.D
Acq: 31 Aug 2024 03:35 pm

Tgt Ion: 56 Resp: 1010

Ion	Ratio	Lower	Upper
56	100		
55	44.7	49.5	89.5#

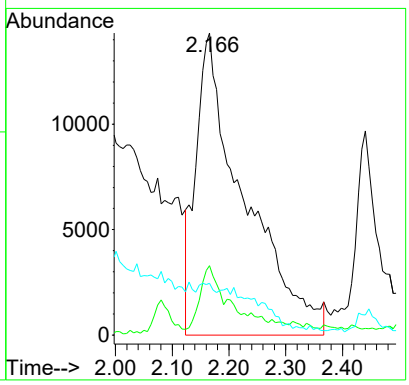


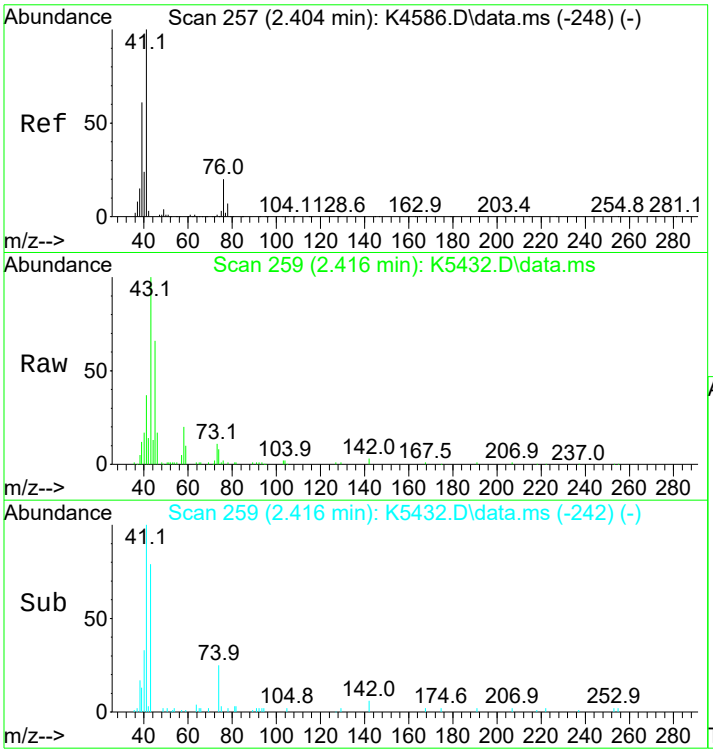


#16
Acetone
Concen: 27.20 ug/L m
RT: 2.166 min Scan# 218
Delta R.T. 0.012 min
Lab File: K5432.D
Acq: 31 Aug 2024 03:35 pm

Tgt Ion: 43 Resp: 84027

Ion	Ratio	Lower	Upper
43	100		
58	23.0	11.5	51.5
42	17.2	0.0	27.3

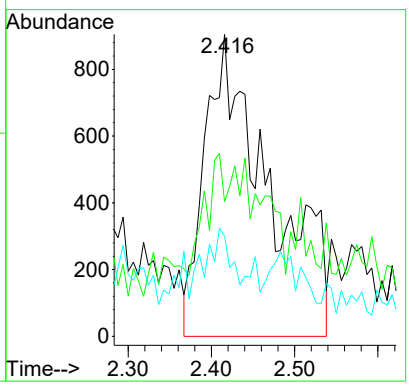


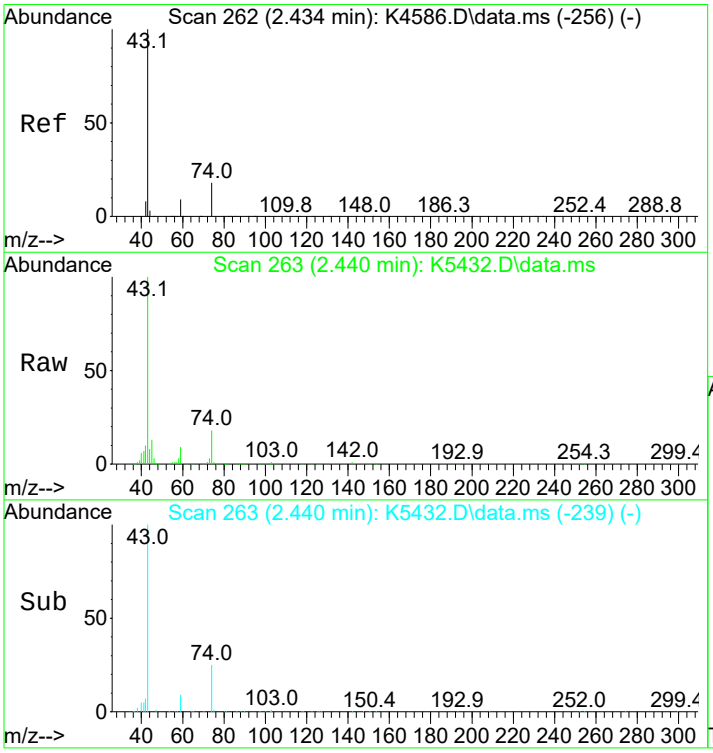


#20
Acetonitrile/Allyl Chloride
Concen: 2.97 ug/L m
RT: 2.416 min Scan# 259
Delta R.T. 0.012 min
Lab File: K5432.D
Acq: 31 Aug 2024 03:35 pm

Tgt Ion: 41 Resp: 4831

Ion	Ratio	Lower	Upper
41	100		
40	44.6	4.0	44.0#
39	33.1	41.3	81.3#

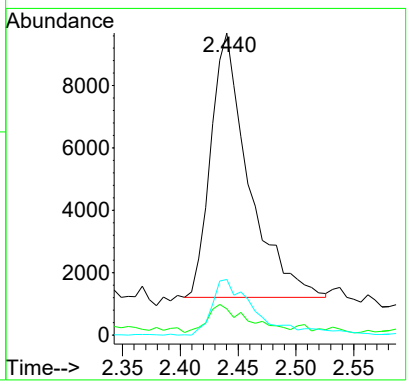


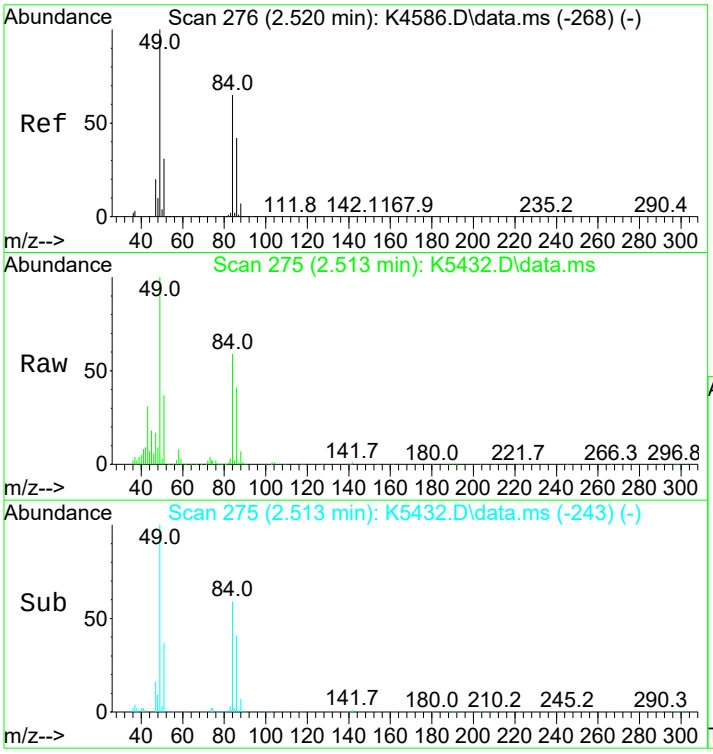


#21
Methyl Acetate
Concen: 3.58 ug/L
RT: 2.440 min Scan# 263
Delta R.T. 0.006 min
Lab File: K5432.D
Acq: 31 Aug 2024 03:35 pm

Tgt Ion: 43 Resp: 19317

Ion	Ratio	Lower	Upper
43	100		
59	8.7	0.0	29.1
74	18.4	0.0	38.1

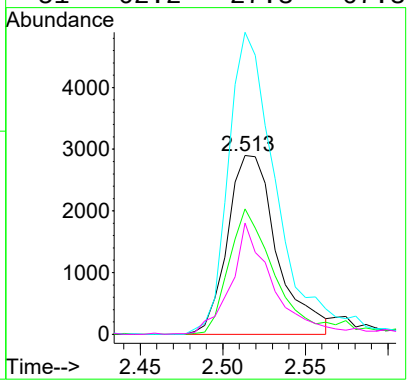


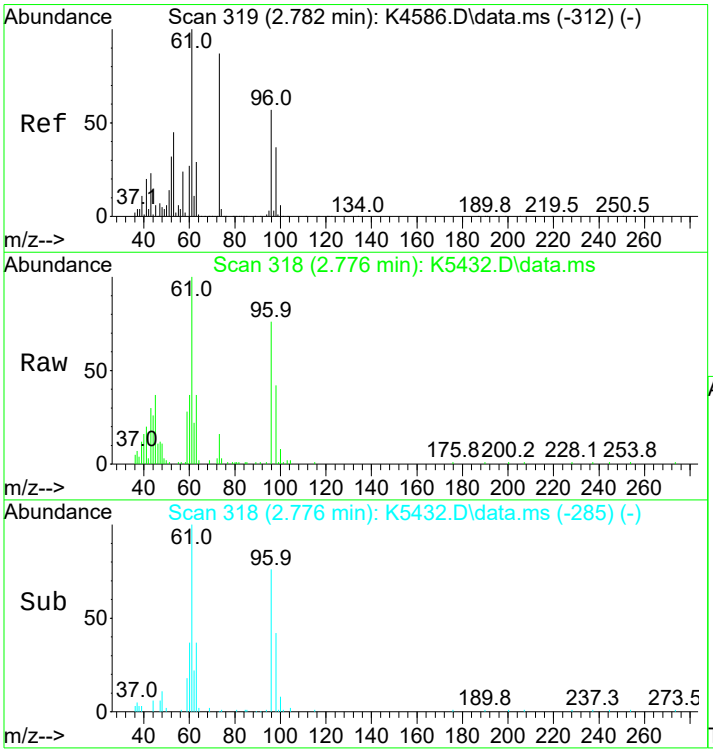


#22
Methylene Chloride
Concen: 0.85 ug/L
RT: 2.513 min Scan# 275
Delta R.T. -0.006 min
Lab File: K5432.D
Acq: 31 Aug 2024 03:35 pm

Tgt Ion: 84 Resp: 6051

Ion	Ratio	Lower	Upper
84	100		
86	70.0	44.7	84.7
49	168.9	134.9	174.9
51	62.2	27.3	67.3

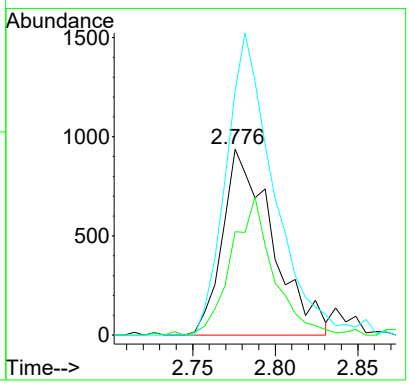


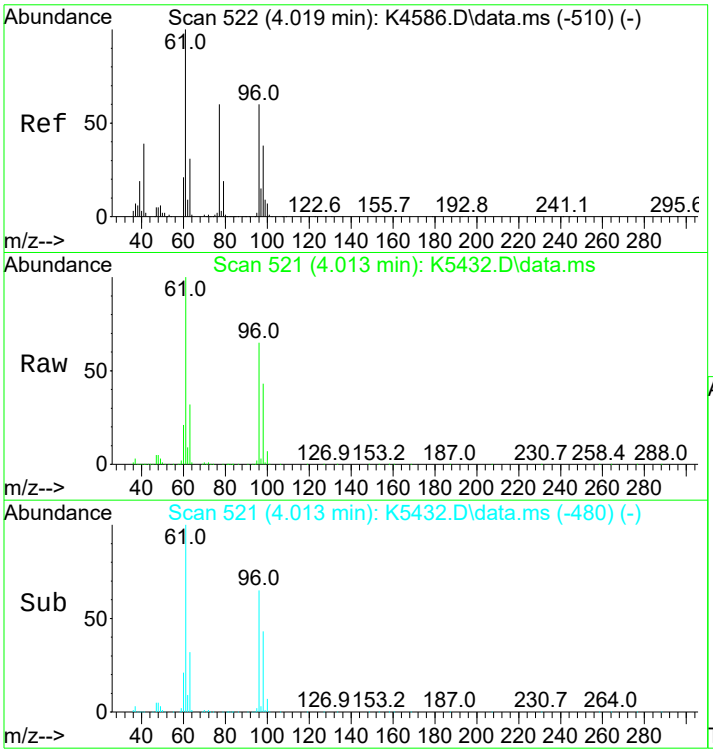


#26
trans-1,2-Dichloroethene
Concen: 0.55 ug/L
RT: 2.776 min Scan# 318
Delta R.T. -0.006 min
Lab File: K5432.D
Acq: 31 Aug 2024 03:35 pm

Tgt Ion: 96 Resp: 1972

Ion	Ratio	Lower	Upper
96	100		
98	55.5	45.1	85.1
61	131.4	154.0	194.0#

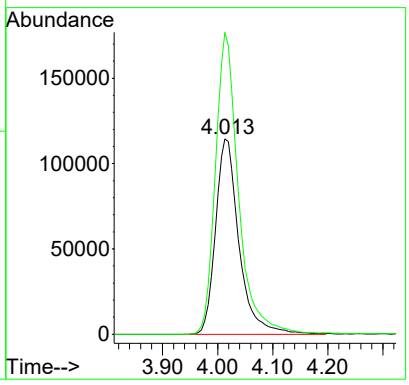


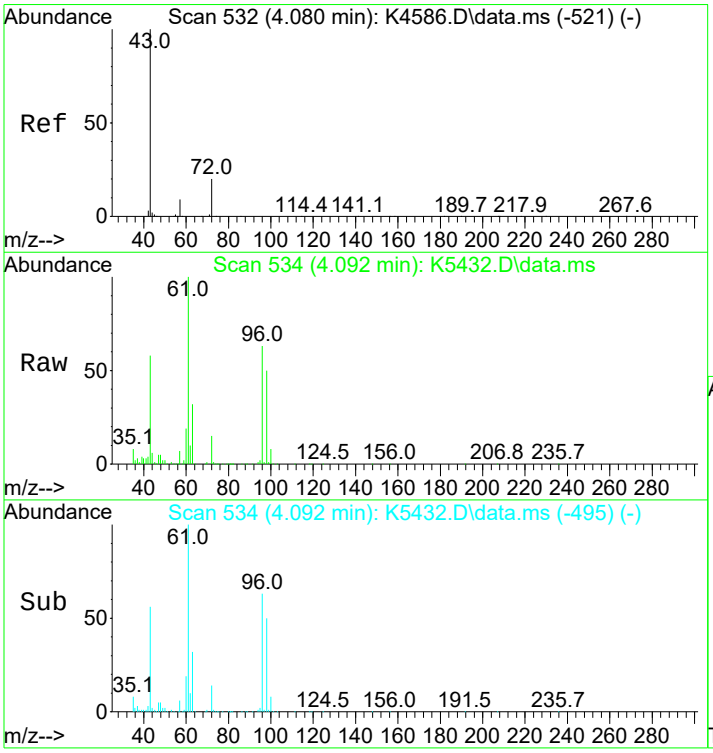


#33
cis-1,2-Dichloroethene
Concen: 81.11 ug/L
RT: 4.013 min Scan# 521
Delta R.T. -0.006 min
Lab File: K5432.D
Acq: 31 Aug 2024 03:35 pm

Tgt Ion: 96 Resp: 338699

Ion	Ratio	Lower	Upper
96	100		
61	154.6	147.9	187.9

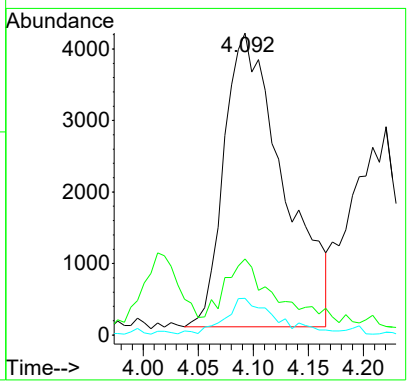


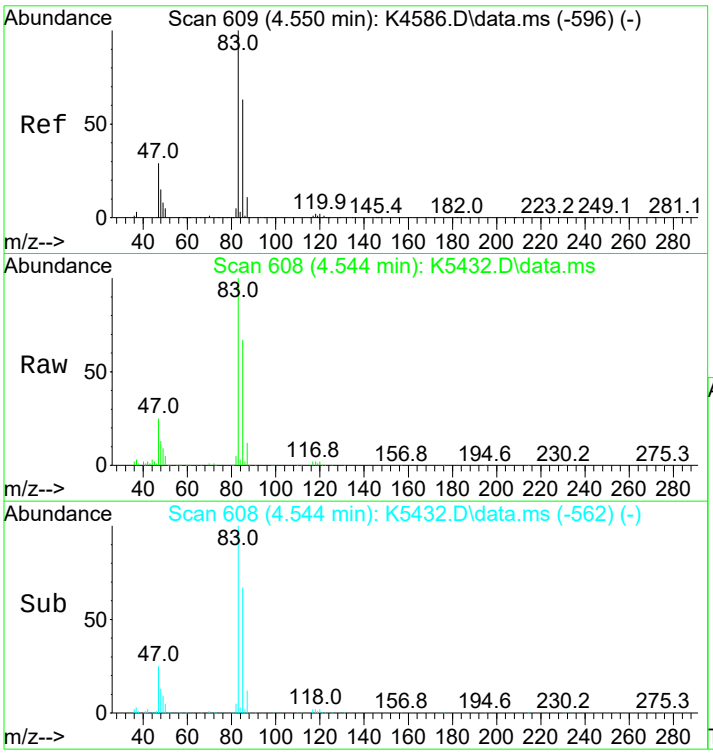


#34
2-Butanone
Concen: 4.15 ug/L
RT: 4.092 min Scan# 534
Delta R.T. 0.012 min
Lab File: K5432.D
Acq: 31 Aug 2024 03:35 pm

Tgt Ion: 43 Resp: 15312

Ion	Ratio	Lower	Upper
43	100		
72	25.1	1.2	41.2
57	12.1	0.0	29.2

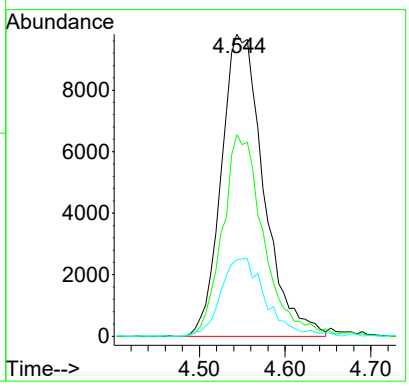


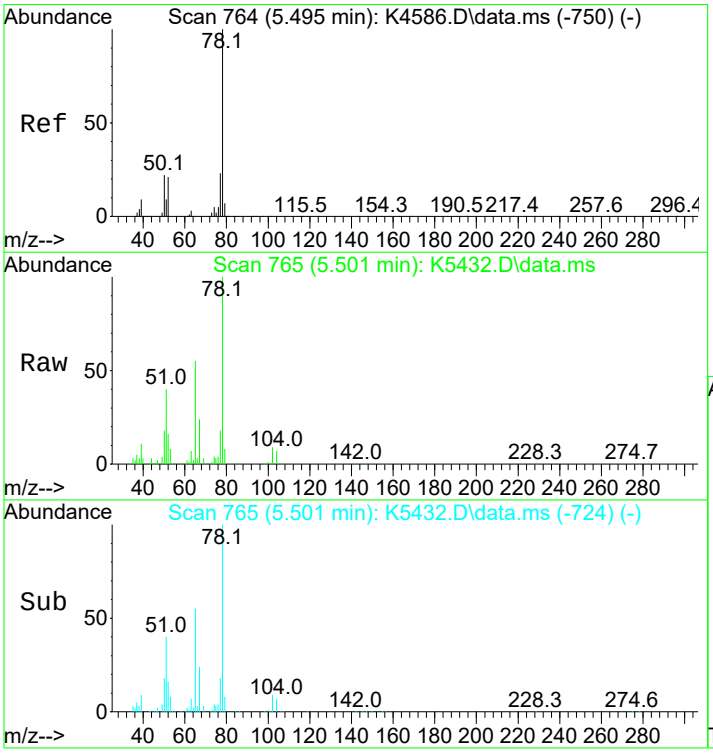


#39
Chloroform
Concen: 4.89 ug/L
RT: 4.544 min Scan# 608
Delta R.T. -0.006 min
Lab File: K5432.D
Acq: 31 Aug 2024 03:35 pm

Tgt Ion: 83 Resp: 33629

Ion	Ratio	Lower	Upper
83	100		
85	66.8	43.1	83.1
47	25.3	9.6	49.6

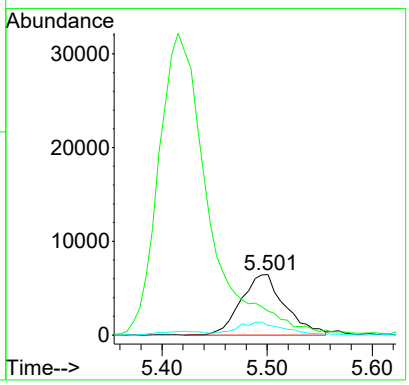


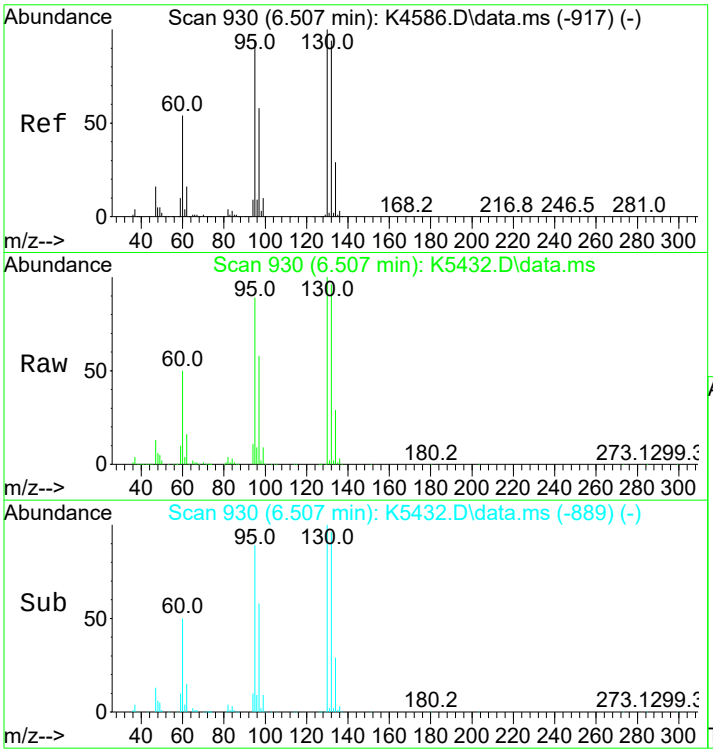


#48
Benzene
Concen: 1.36 ug/L
RT: 5.501 min Scan# 765
Delta R.T. 0.006 min
Lab File: K5432.D
Acq: 31 Aug 2024 03:35 pm

Tgt Ion: 78 Resp: 18588

Ion	Ratio	Lower	Upper
78	100		
51	39.7	3.1	43.1
52	15.7	1.2	41.2

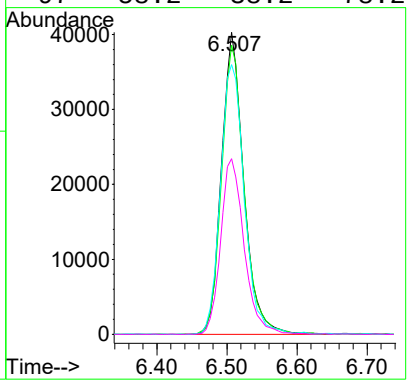


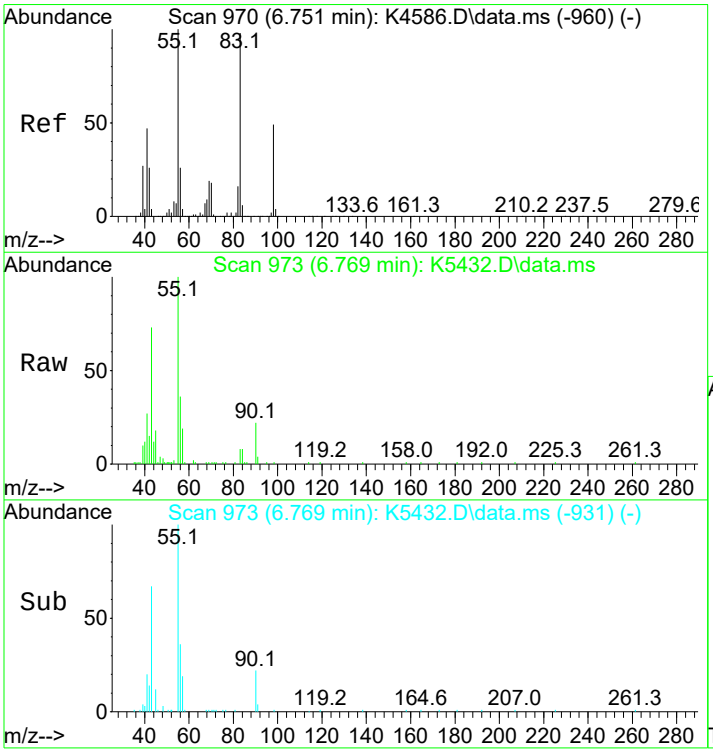


#53
Trichloroethene
Concen: 21.91 ug/L
RT: 6.507 min Scan# 930
Delta R.T. -0.000 min
Lab File: K5432.D
Acq: 31 Aug 2024 03:35 pm

Tgt Ion:130 Resp: 89073

Ion	Ratio	Lower	Upper
130	100		
132	95.8	74.0	114.0
95	89.3	74.1	114.1
97	58.2	38.2	78.2

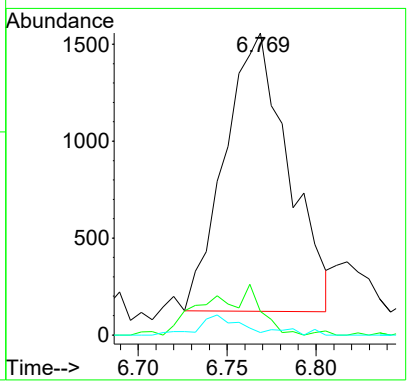


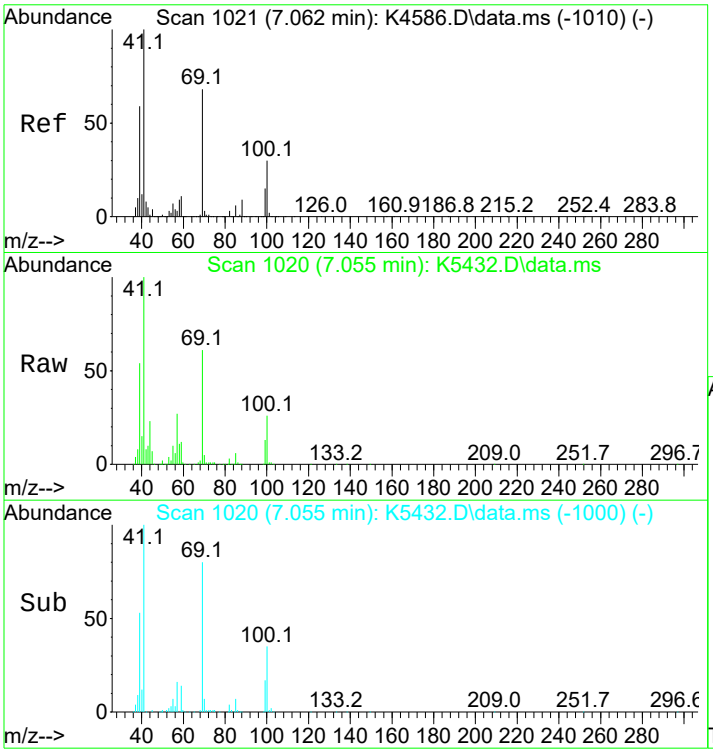


#54
Methylcyclohexane
Concen: 0.62 ug/L
RT: 6.769 min Scan# 973
Delta R.T. 0.018 min
Lab File: K5432.D
Acq: 31 Aug 2024 03:35 pm

Tgt Ion: 55 Resp: 3570

Ion	Ratio	Lower	Upper
55	100		
83	7.8	76.0	116.0#
98	0.8	28.0	68.0#

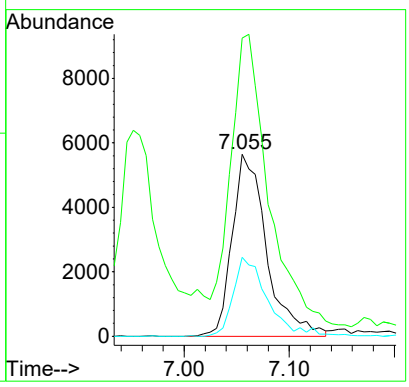


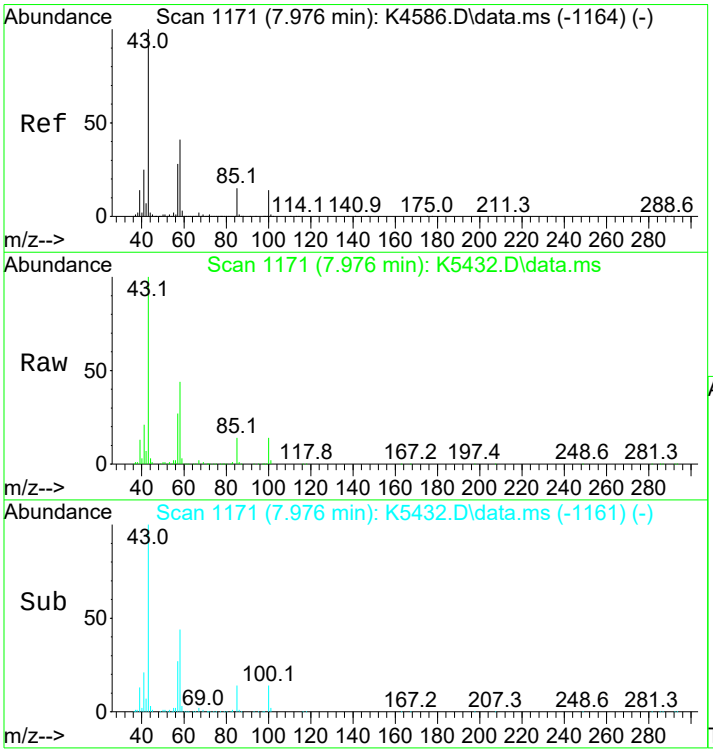


#58
Methyl Methacrylate
Concen: 3.68 ug/L
RT: 7.055 min Scan# 1020
Delta R.T. -0.006 min
Lab File: K5432.D
Acq: 31 Aug 2024 03:35 pm

Tgt Ion: 69 Resp: 12770

Ion	Ratio	Lower	Upper
69	100		
41	163.7	128.2	168.2
100	43.4	24.5	64.5

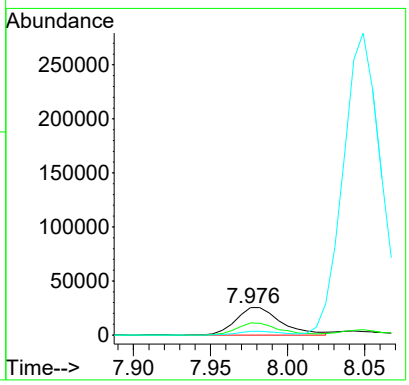


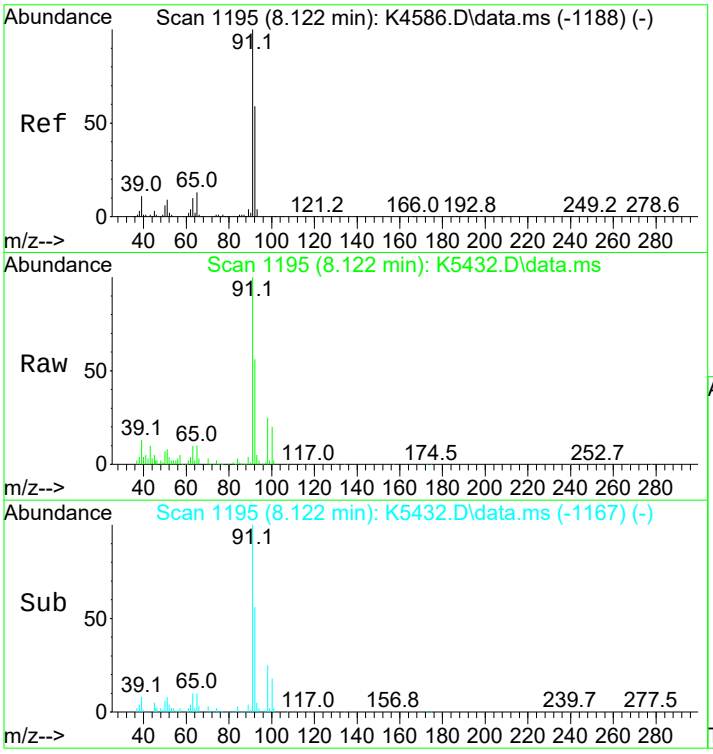


#63
4-Methyl-2-pentanone
Concen: 7.93 ug/L
RT: 7.976 min Scan# 1171
Delta R.T. -0.000 min
Lab File: K5432.D
Acq: 31 Aug 2024 03:35 pm

Tgt Ion: 43 Resp: 51576

Ion	Ratio	Lower	Upper
43	100		
58	43.8	21.3	61.3
100	13.6	0.0	33.7

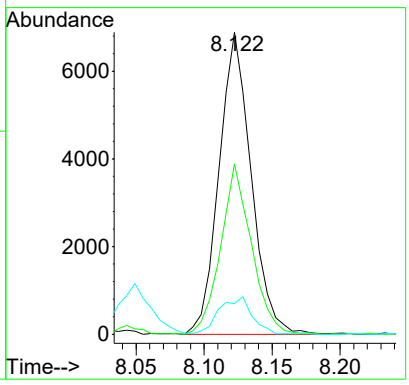


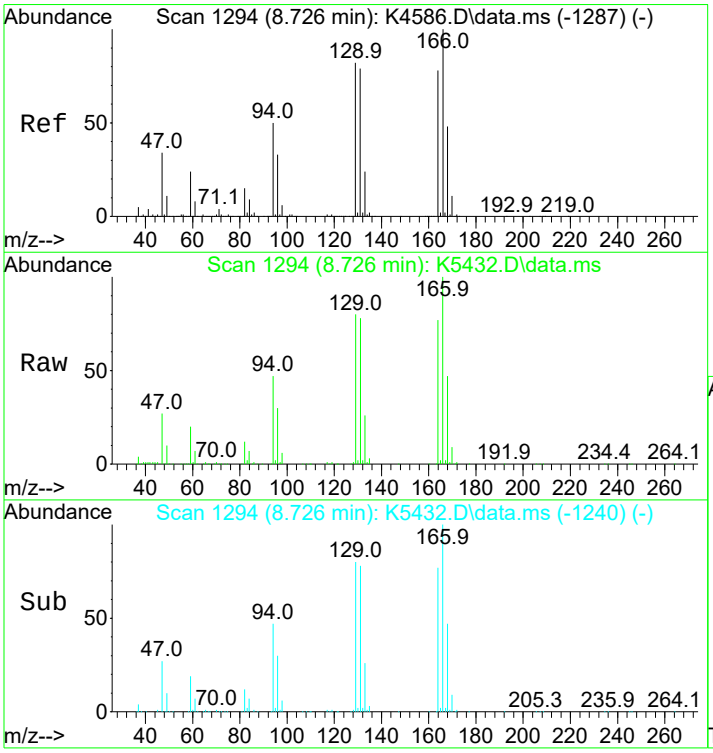


#65
Toluene
Concen: 0.73 ug/L
RT: 8.122 min Scan# 1195
Delta R.T. -0.000 min
Lab File: K5432.D
Acq: 31 Aug 2024 03:35 pm

Tgt Ion: 91 Resp: 11294

Ion	Ratio	Lower	Upper
91	100		
92	56.4	39.0	79.0
65	10.2	0.0	32.8

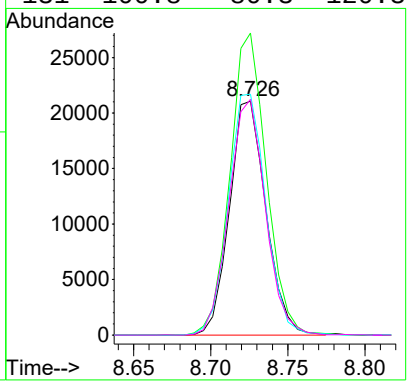


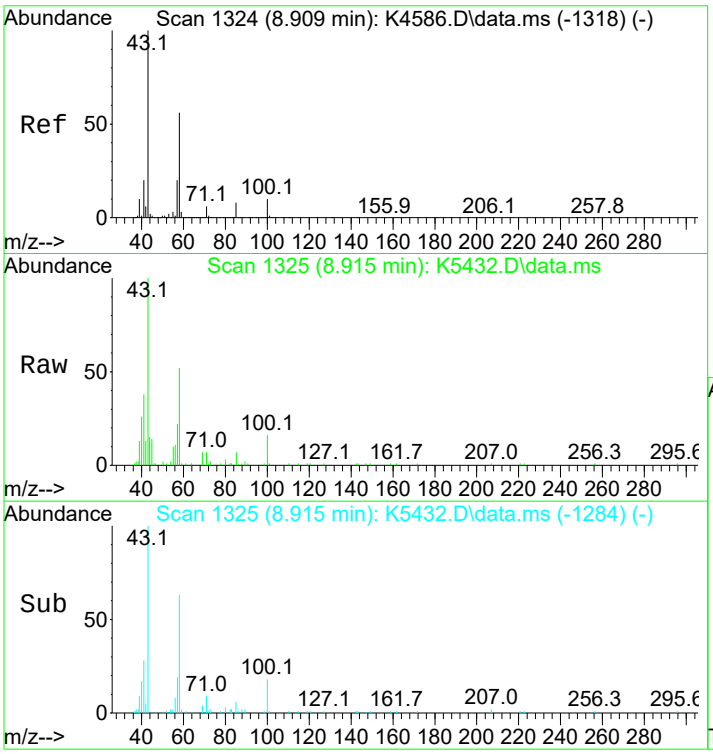


#71
Tetrachloroethene
Concen: 12.19 ug/L
RT: 8.726 min Scan# 1294
Delta R.T. -0.000 min
Lab File: K5432.D
Acq: 31 Aug 2024 03:35 pm

Tgt Ion:164 Resp: 34580

Ion	Ratio	Lower	Upper
164	100		
166	129.2	107.5	147.5
129	103.0	84.9	124.9
131	100.8	80.3	120.3

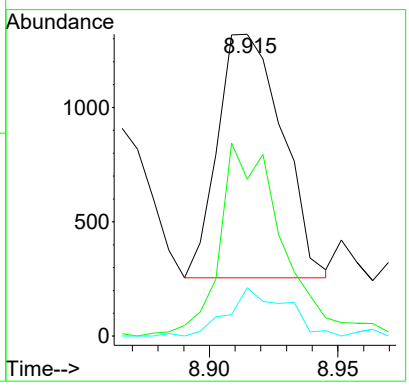


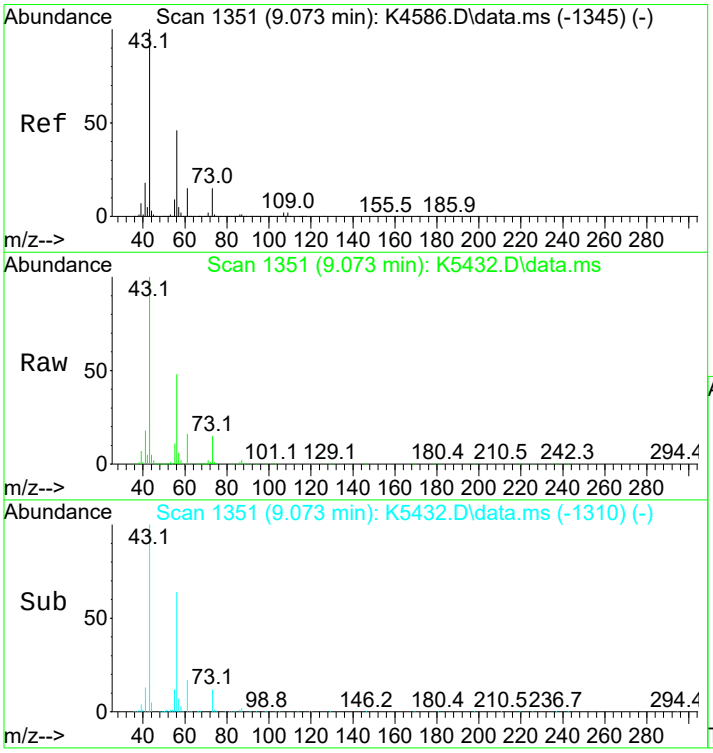


#72
2-Hexanone
Concen: 0.37 ug/L
RT: 8.915 min Scan# 1325
Delta R.T. 0.006 min
Lab File: K5432.D
Acq: 31 Aug 2024 03:35 pm

Tgt Ion: 43 Resp: 1859

Ion	Ratio	Lower	Upper
43	100		
58	52.0	35.9	75.9
100	16.1	0.0	30.1

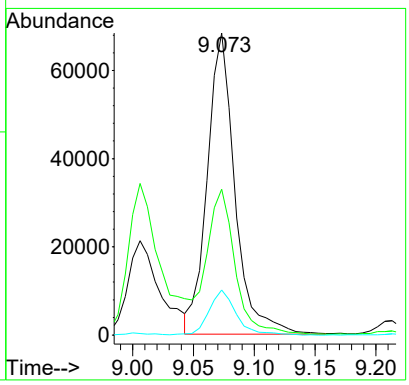


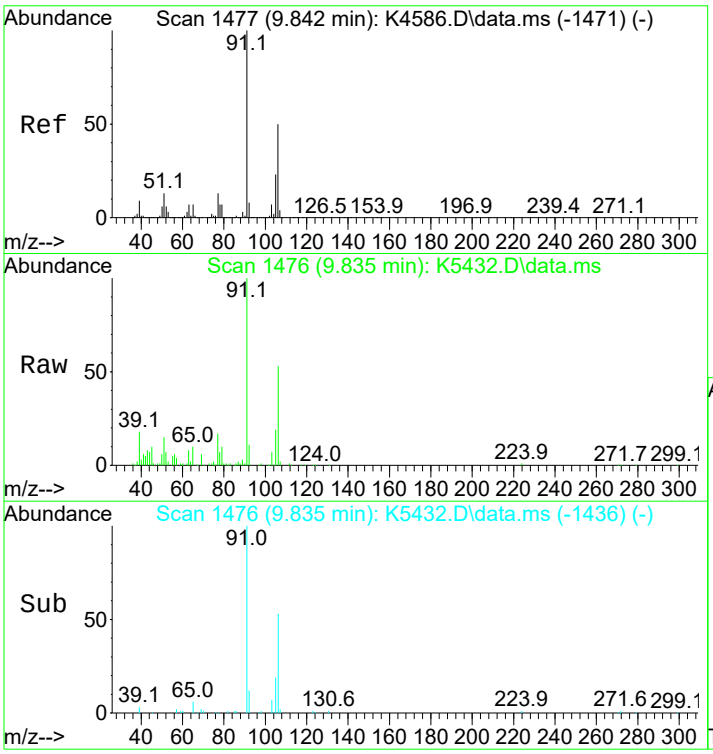


#75
N-Butyl Acetate
Concen: 11.12 ug/L
RT: 9.073 min Scan# 1351
Delta R.T. -0.000 min
Lab File: K5432.D
Acq: 31 Aug 2024 03:35 pm

Tgt Ion: 43 Resp: 108125

Ion	Ratio	Lower	Upper
43	100		
56	48.3	25.8	65.8
73	14.9	0.0	35.4

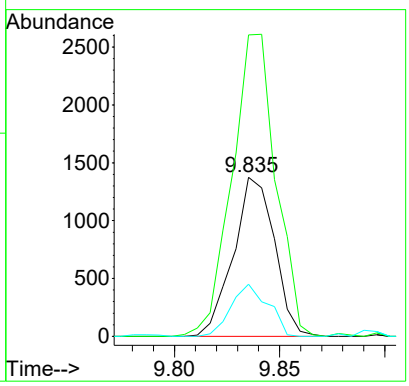


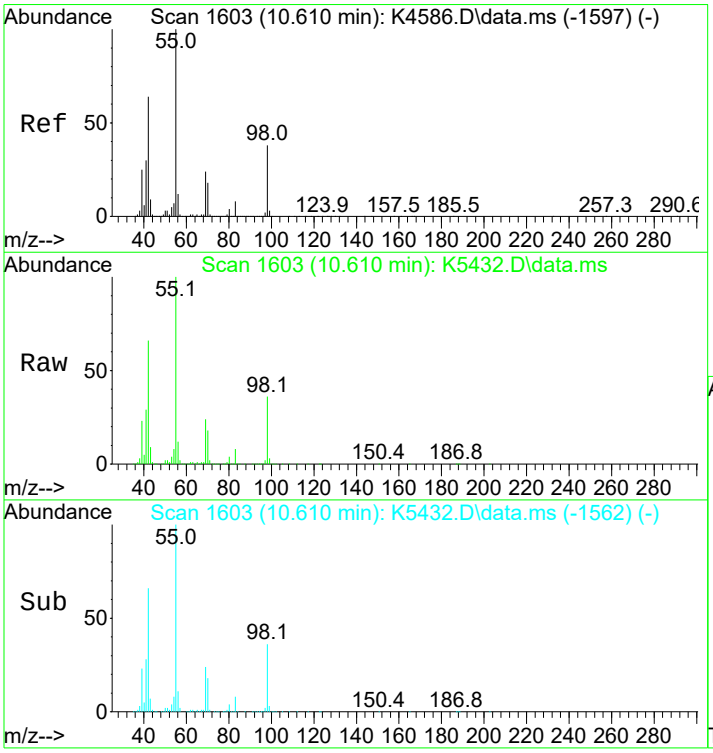


#82
(m+p)Xylene
Concen: 0.28 ug/L
RT: 9.835 min Scan# 1476
Delta R.T. -0.006 min
Lab File: K5432.D
Acq: 31 Aug 2024 03:35 pm

Tgt Ion:106 Resp: 1869

Ion	Ratio	Lower	Upper
106	100		
91	189.5	178.7	218.7
77	32.7	5.9	45.9

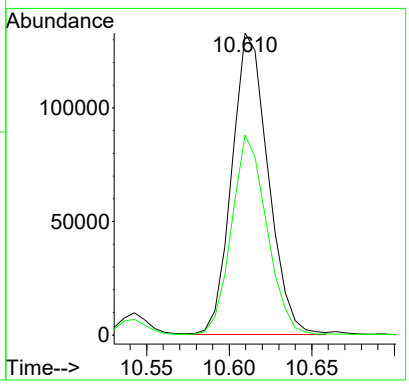




#88
Cyclohexanone
Concen: 161.29 ug/L
RT: 10.610 min Scan# 1603
Delta R.T. -0.000 min
Lab File: K5432.D
Acq: 31 Aug 2024 03:35 pm

Tgt Ion: 55 Resp: 203058

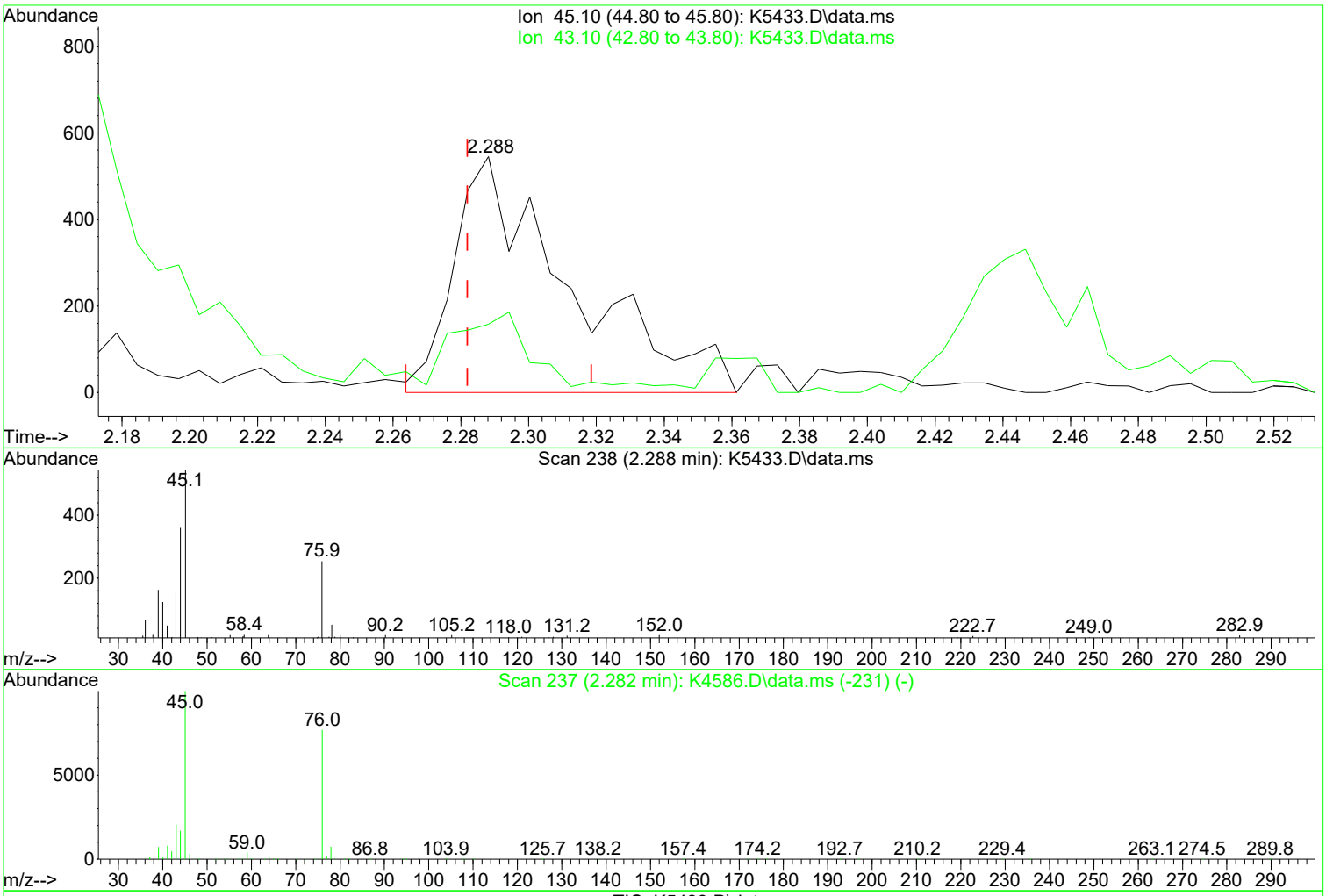
Ion	Ratio	Lower	Upper
55	100		
42	66.2	44.5	84.5



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5433.D
Acq On : 31 Aug 2024 03:59 pm
Operator : F.NAEGLER
Sample : R2408139-008
Misc : CEC 26473 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 01 11:43:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration



TIC: K5433.D\data.ms

(17) 2-Propanol

2.288min (+ 0.006) 2.23 ug/L m

response 1293

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	21.40	28.99
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

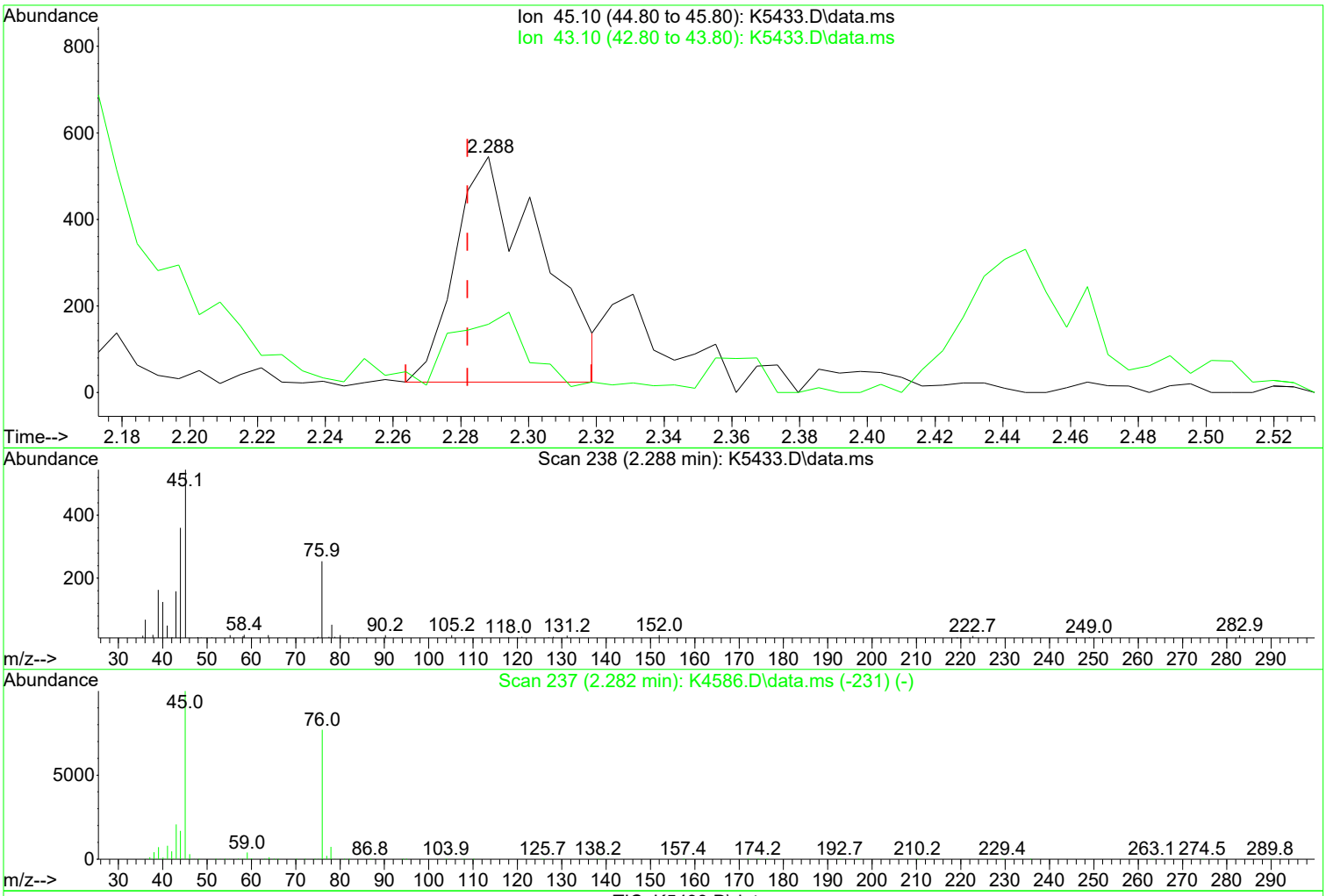
Poor integration.

09/02/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5433.D
Acq On : 31 Aug 2024 03:59 pm
Operator : F.NAEGLER
Sample : R2408139-008
Misc : CEC 26473 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 01 11:43:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration



TIC: K5433.D\data.ms

(17) 2-Propanol

2.288min (+ 0.006) 1.59 ug/L

response 920

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	21.40	28.99
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/02/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5433.D
Acq On : 31 Aug 2024 03:59 pm
Operator : F.NAEGLER
Sample : R2408139-008
Misc : CEC 26473 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 01 11:43:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

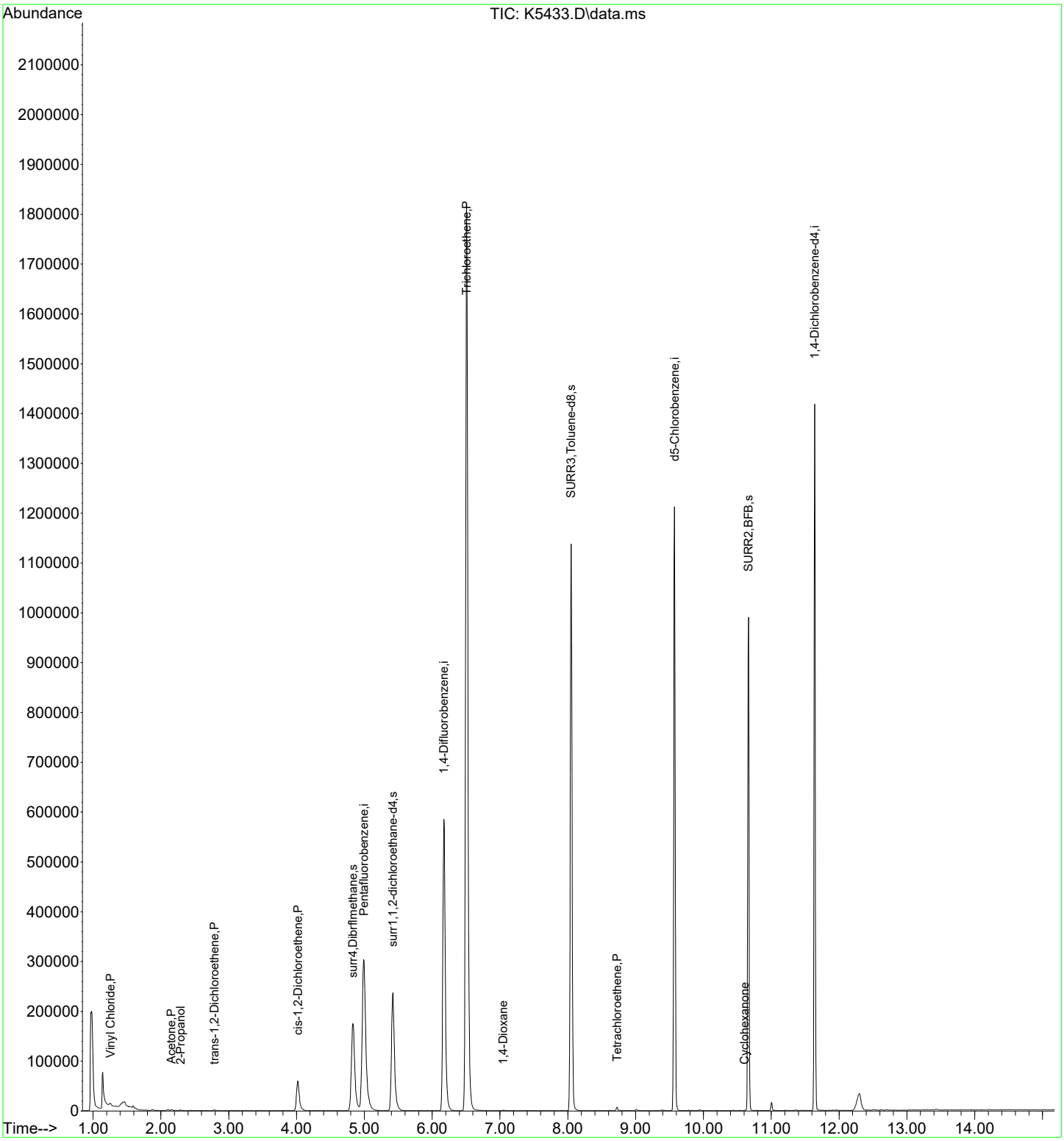
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.995	168	367046	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.172	114	615286	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.573	117	549353	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	253426	50.00	ug/L	# 0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.830	113	192638	50.19	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 100.38%			
47) surr1,1,2-dichloroetha...	5.422	65	269218	51.32	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.64%			
64) SURR3,Toluene-d8	8.049	98	729417	51.79	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 103.58%			
69) SURR2,BFB	10.665	95	274085	49.49	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 98.98%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.258	62	2813	0.550	ug/L	# 1
6) Bromomethane	1.459	94	430	Below Cal		# 72
16) Acetone	2.154	43	2890	0.984	ug/L	90
17) 2-Propanol	2.288	45	1293m	2.232	ug/L	
26) trans-1,2-Dichloroethene	2.788	96	707	0.207	ug/L	# 82
33) cis-1,2-Dichloroethene	4.020	96	37525	9.451	ug/L	95
53) Trichloroethene	6.507	130	769603	197.233	ug/L	98
57) 1,4-Dioxane	7.043	88	644	7.547	ug/L	# 66
71) Tetrachloroethene	8.726	164	1379	0.509	ug/L	91
88) Cyclohexanone	10.604	55	536	0.446	ug/L	# 56

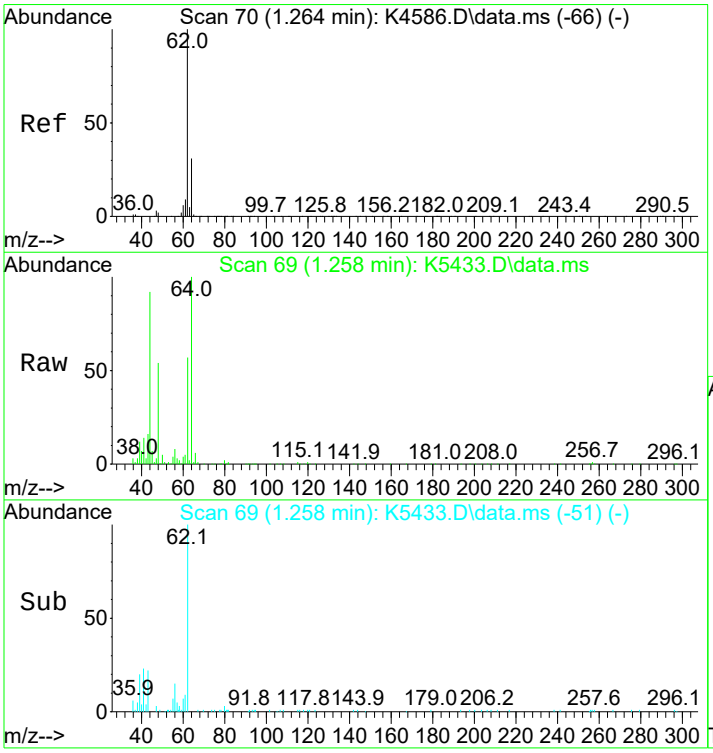
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5433.D
Acq On : 31 Aug 2024 03:59 pm
Operator : F.NAEGLER
Sample : R2408139-008
Misc : CEC 26473 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 01 11:43:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

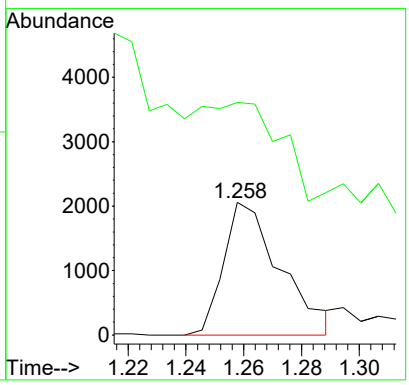


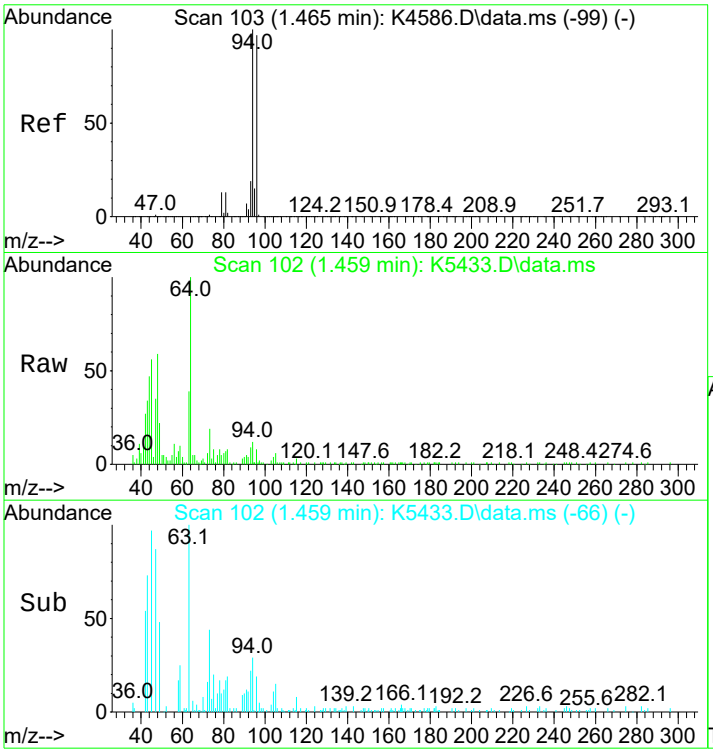


#5
Vinyl Chloride
Concen: 0.55 ug/L
RT: 1.258 min Scan# 69
Delta R.T. -0.006 min
Lab File: K5433.D
Acq: 31 Aug 2024 03:59 pm

Tgt Ion: 62 Resp: 2813

Ion	Ratio	Lower	Upper
62	100		
64	175.2	10.9	50.9#

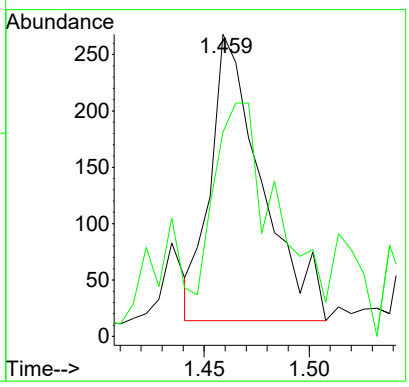


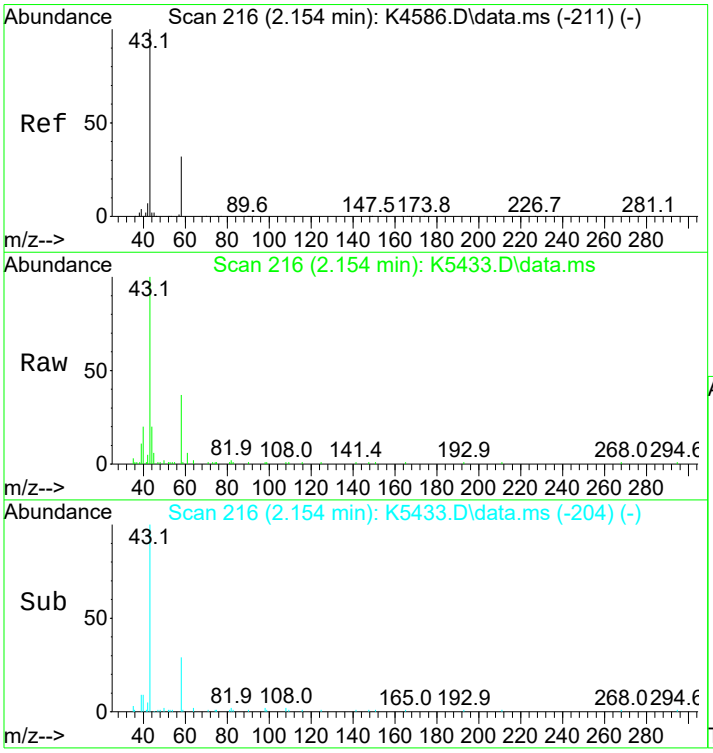


#6
Bromomethane
Concen: Below Cal
RT: 1.459 min Scan# 102
Delta R.T. -0.006 min
Lab File: K5433.D
Acq: 31 Aug 2024 03:59 pm

Tgt Ion: 94 Resp: 430

Ion	Ratio	Lower	Upper
94	100		
96	69.0	76.6	116.6#

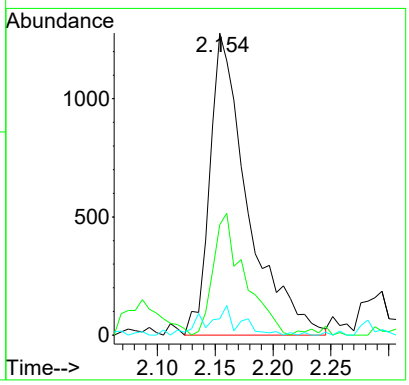


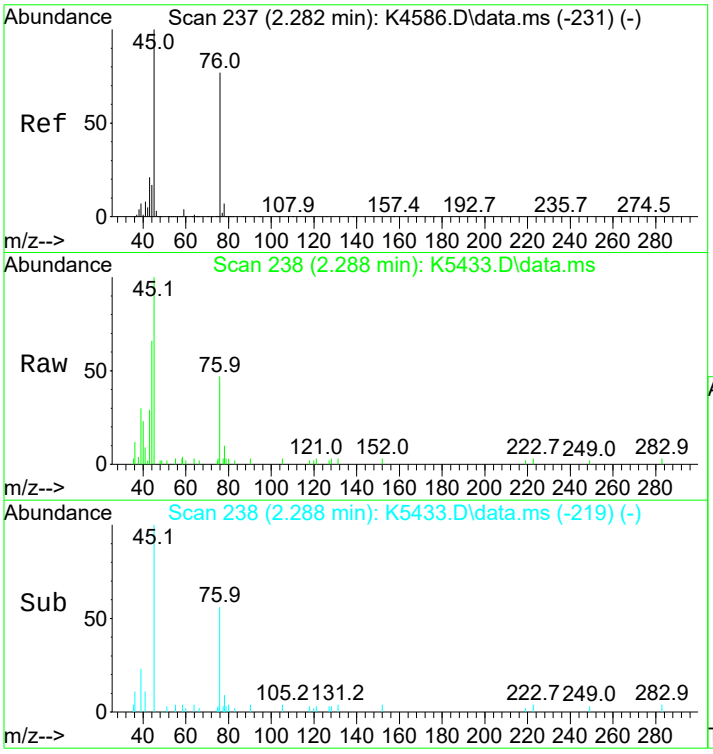


#16
Acetone
Concen: 0.98 ug/L
RT: 2.154 min Scan# 216
Delta R.T. 0.000 min
Lab File: K5433.D
Acq: 31 Aug 2024 03:59 pm

Tgt Ion: 43 Resp: 2890

Ion	Ratio	Lower	Upper
43	100		
58	37.6	11.5	51.5
42	5.4	0.0	27.3

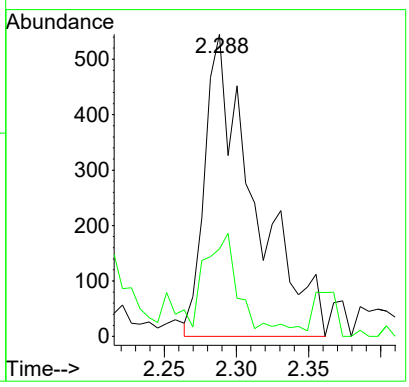


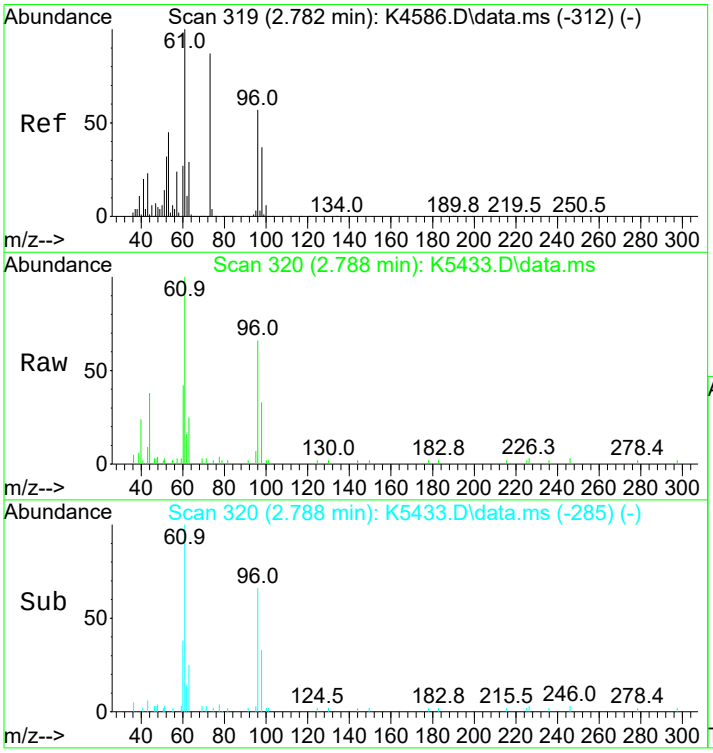


#17
2-Propanol
Concen: 2.23 ug/L m
RT: 2.288 min Scan# 238
Delta R.T. 0.006 min
Lab File: K5433.D
Acq: 31 Aug 2024 03:59 pm

Tgt Ion: 45 Resp: 1293

Ion	Ratio	Lower	Upper
45	100		
43	29.0	1.4	41.4

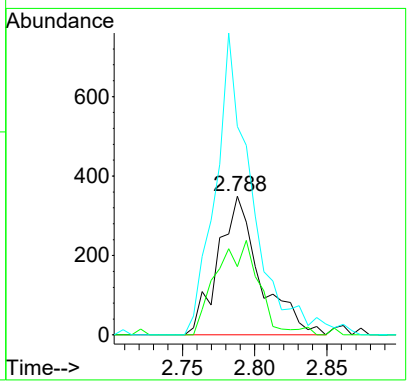


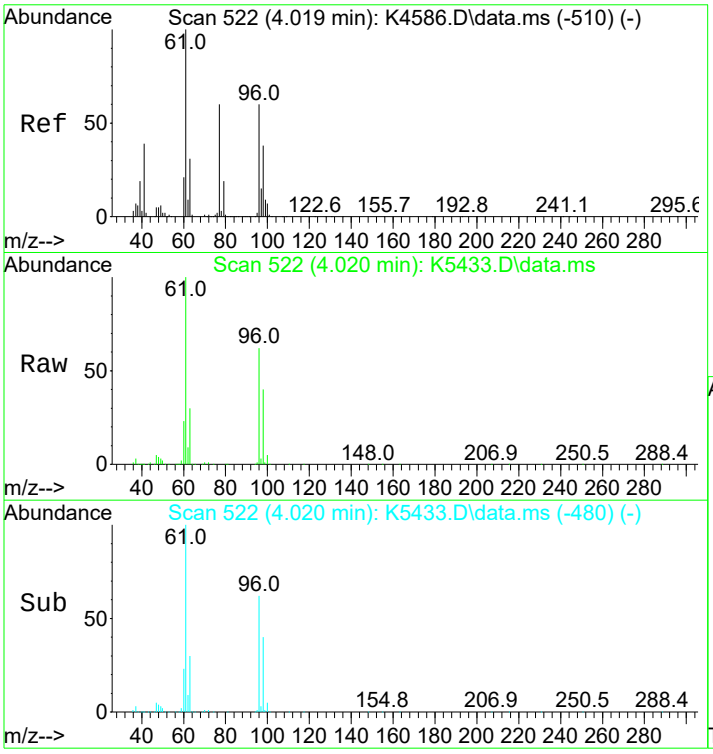


#26
trans-1,2-Dichloroethene
Concen: 0.21 ug/L
RT: 2.788 min Scan# 320
Delta R.T. 0.006 min
Lab File: K5433.D
Acq: 31 Aug 2024 03:59 pm

Tgt Ion: 96 Resp: 707

Ion	Ratio	Lower	Upper
96	100		
98	49.3	45.1	85.1
61	150.4	154.0	194.0#

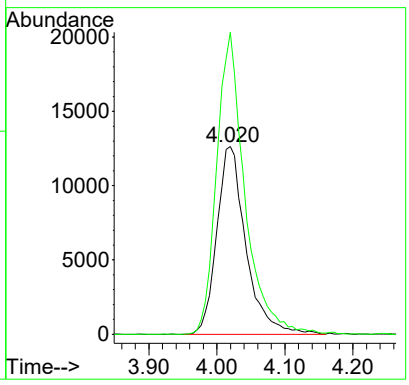


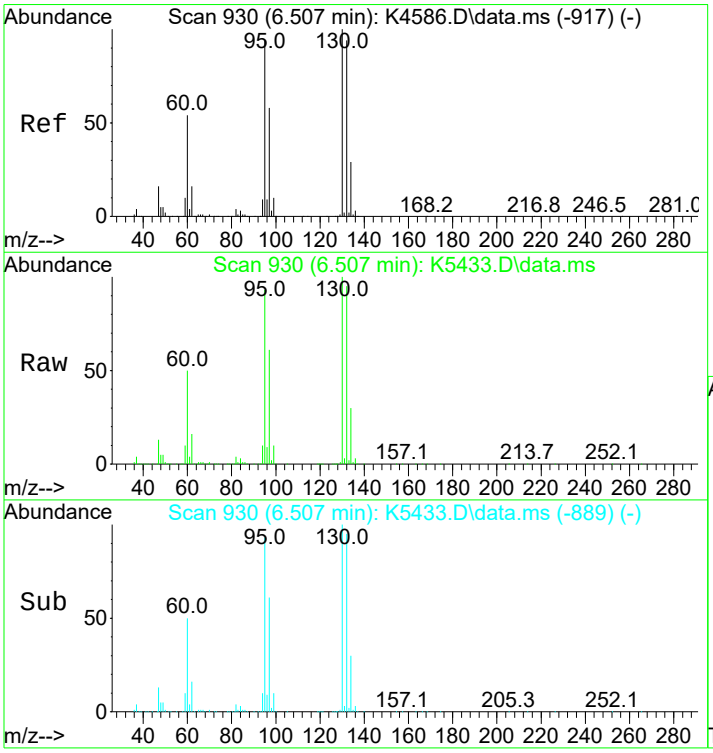


#33
cis-1,2-Dichloroethene
Concen: 9.45 ug/L
RT: 4.020 min Scan# 522
Delta R.T. 0.000 min
Lab File: K5433.D
Acq: 31 Aug 2024 03:59 pm

Tgt Ion: 96 Resp: 37525

Ion	Ratio	Lower	Upper
96	100		
61	160.9	147.9	187.9

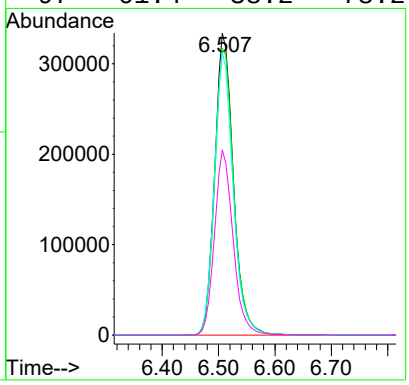


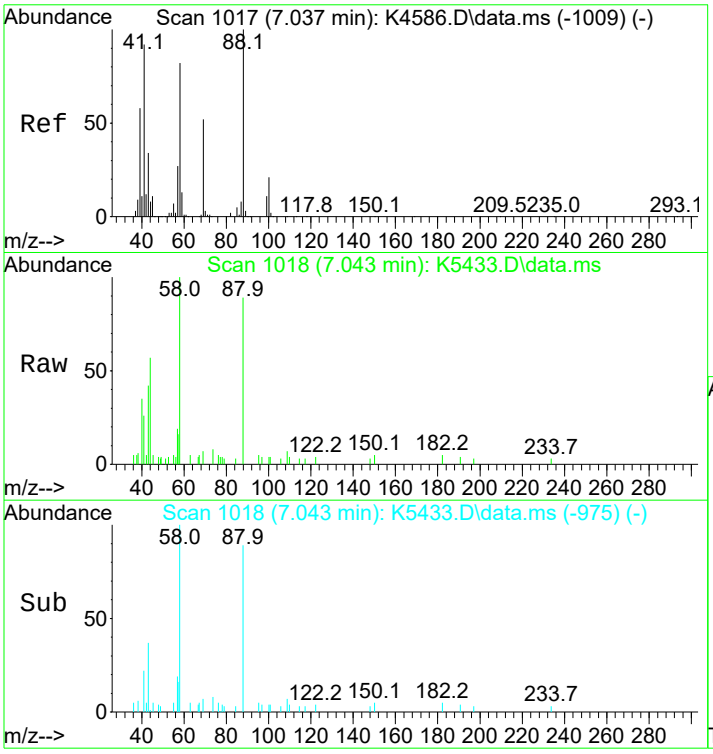


#53
Trichloroethene
Concen: 197.23 ug/L
RT: 6.507 min Scan# 930
Delta R.T. 0.000 min
Lab File: K5433.D
Acq: 31 Aug 2024 03:59 pm

Tgt Ion:130 Resp: 769603

Ion	Ratio	Lower	Upper
130	100		
132	95.0	74.0	114.0
95	93.4	74.1	114.1
97	61.4	38.2	78.2

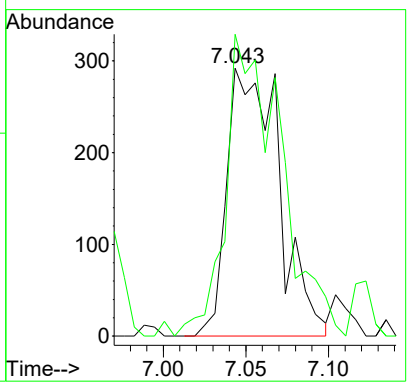


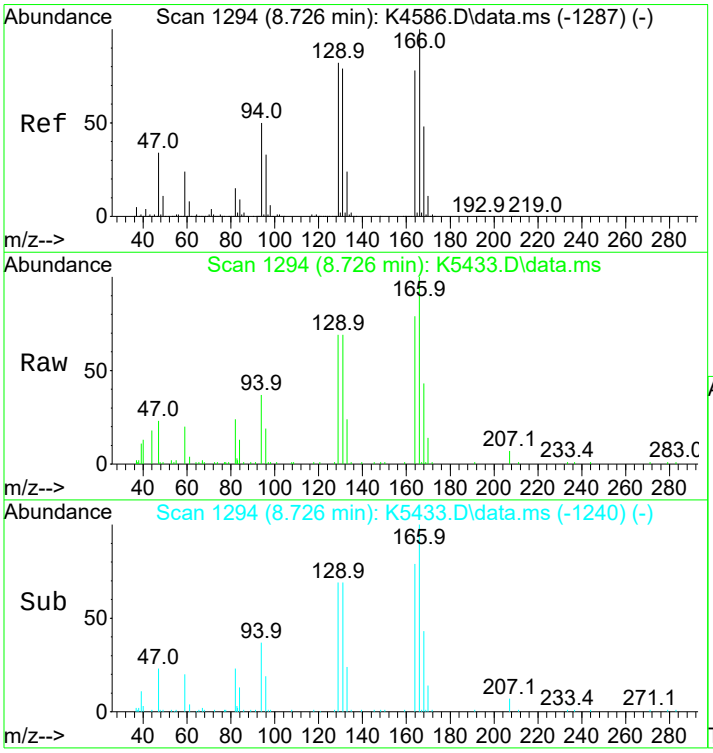


#57
1,4-Dioxane
Concen: 7.55 ug/L
RT: 7.043 min Scan# 1018
Delta R.T. 0.006 min
Lab File: K5433.D
Acq: 31 Aug 2024 03:59 pm

Tgt Ion: 88 Resp: 644

Ion	Ratio	Lower	Upper
88	100		
58	112.7	61.9	101.9#

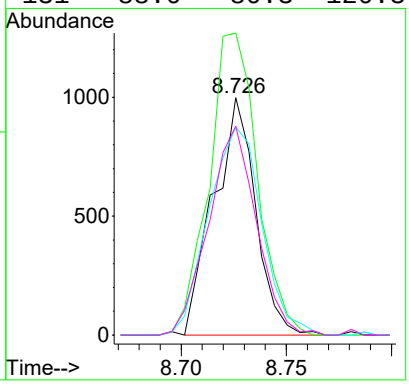


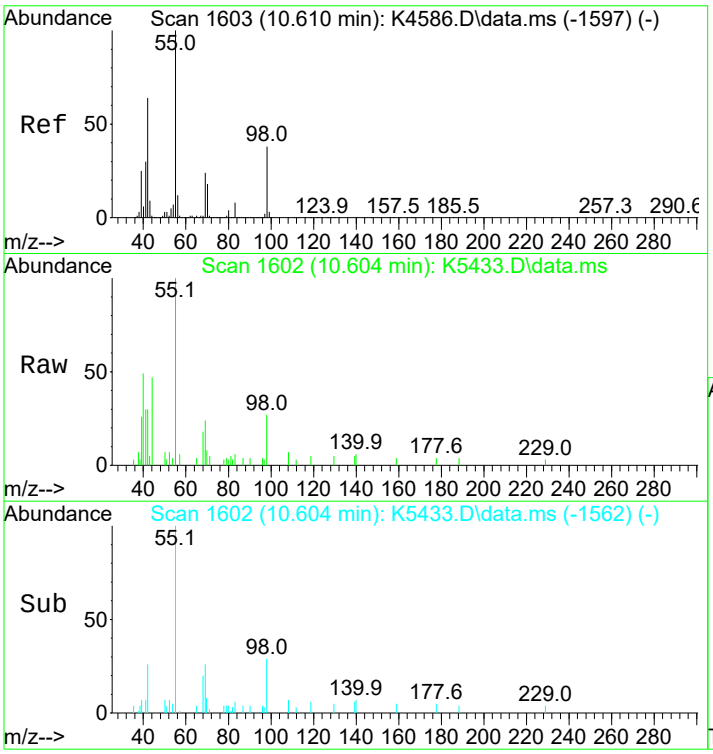


#71
Tetrachloroethene
Concen: 0.51 ug/L
RT: 8.726 min Scan# 1294
Delta R.T. 0.000 min
Lab File: K5433.D
Acq: 31 Aug 2024 03:59 pm

Tgt Ion:164 Resp: 1379

Ion	Ratio	Lower	Upper
164	100		
166	127.3	107.5	147.5
129	87.6	84.9	124.9
131	88.0	80.3	120.3

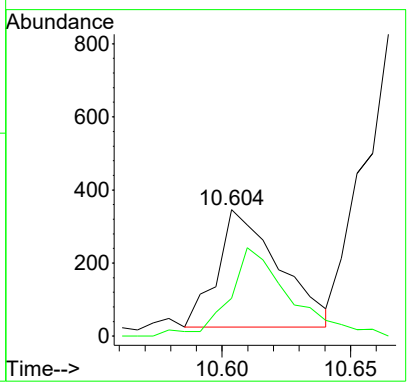




#88
Cyclohexanone
Concen: 0.45 ug/L
RT: 10.604 min Scan# 1602
Delta R.T. -0.006 min
Lab File: K5433.D
Acq: 31 Aug 2024 03:59 pm

Tgt Ion: 55 Resp: 536

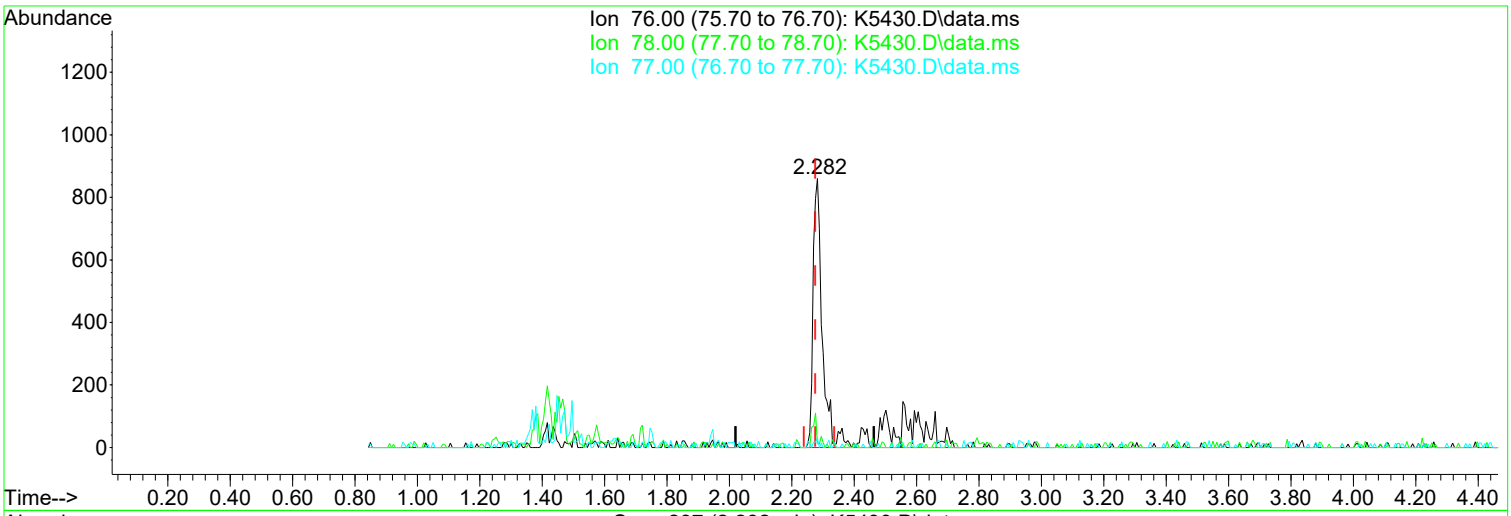
Ion	Ratio	Lower	Upper
55	100		
42	30.1	44.5	84.5#

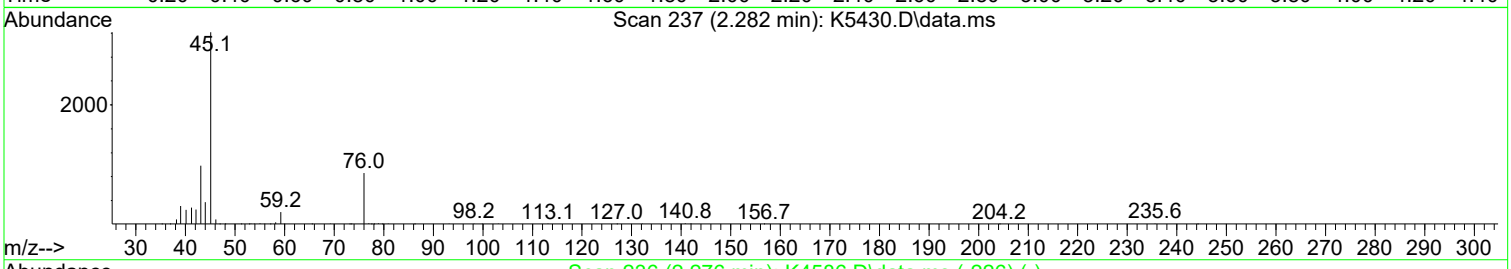


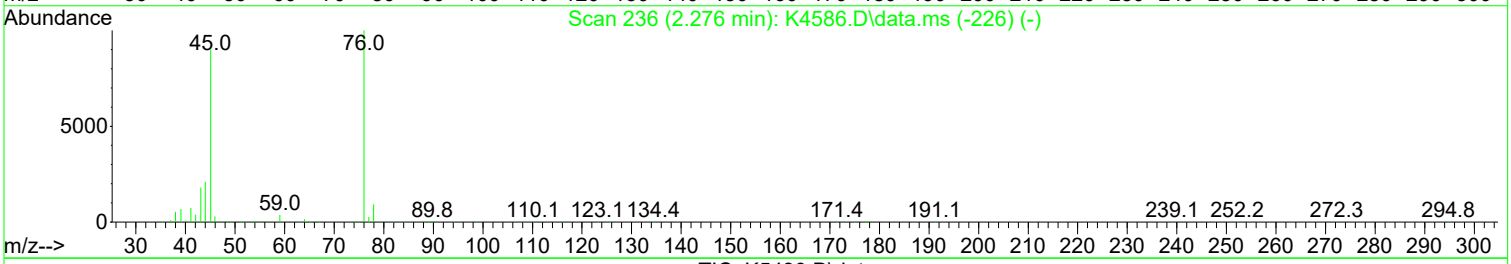
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5430.D
Acq On : 31 Aug 2024 02:48 pm
Operator : F.NAEGLER
Sample : R2408139-010
Misc : CEC 26473 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 01 11:41:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5430.D\data.ms

(19) Carbon Disulfide (P)

2.282min (+ 0.006) 0.35 ug/L m

response 2693

Ion	Exp%	Act%
76.00	100.00	100.00
78.00	9.20	1.40
77.00	2.70	2.33
0.00	0.00	0.00

Manual Integration:

After

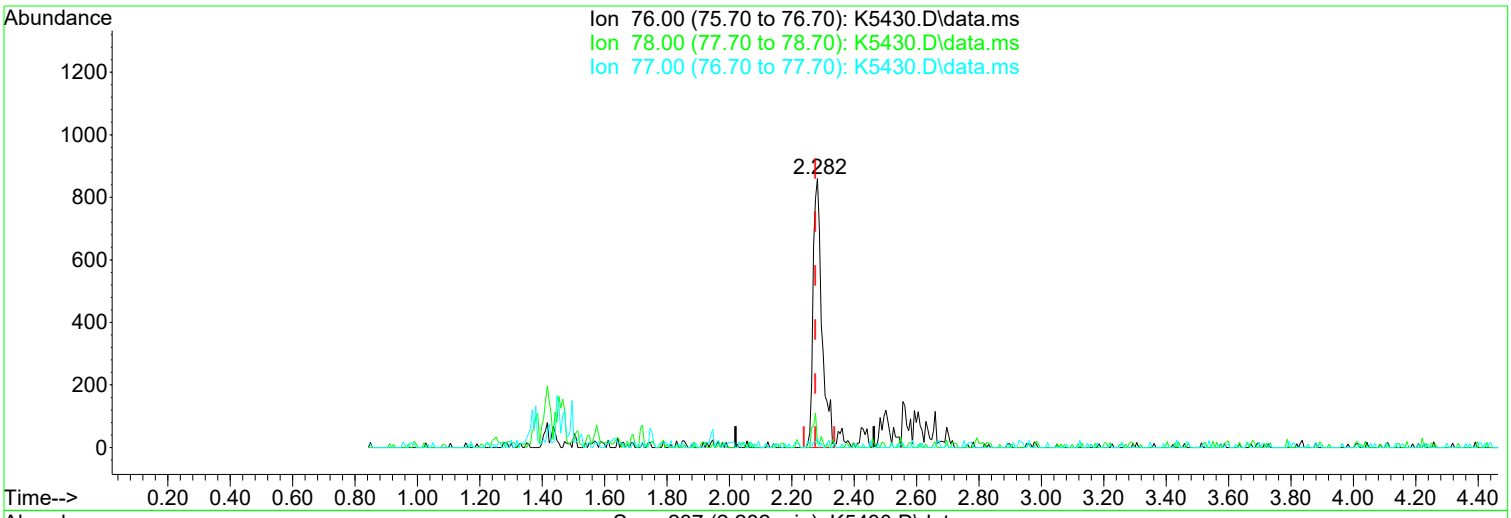
Poor integration.

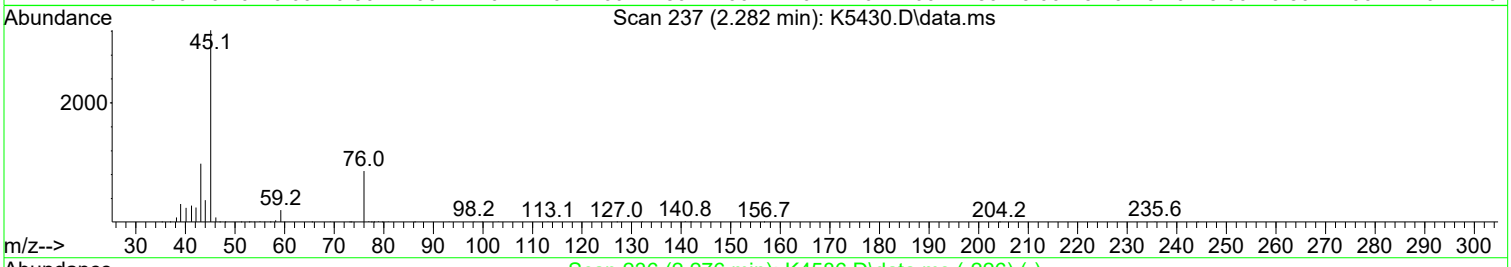
09/02/24

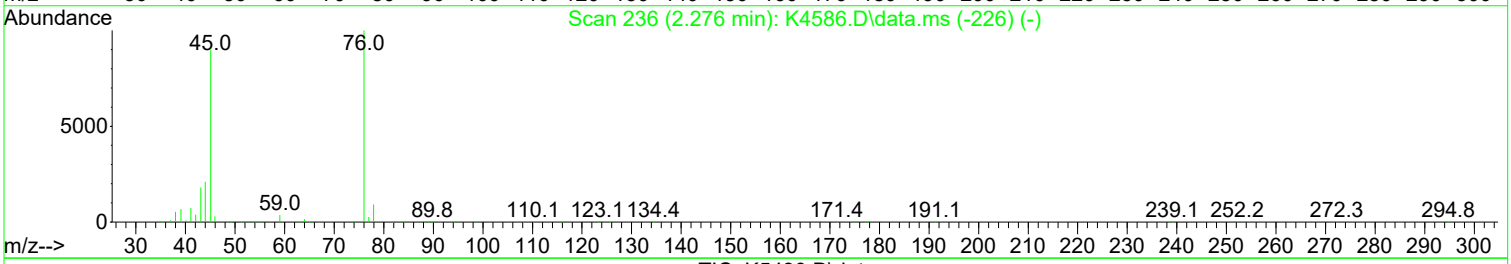
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5430.D
Acq On : 31 Aug 2024 02:48 pm
Operator : F.NAEGLER
Sample : R2408139-010
Misc : CEC 26473 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 01 11:41:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5430.D\data.ms

(19) Carbon Disulfide (P)

2.282min (+ 0.006) 0.21 ug/L

response 1669

Ion	Exp%	Act%
76.00	100.00	100.00
78.00	9.20	1.40
77.00	2.70	3.60
0.00	0.00	0.00

Manual Integration:

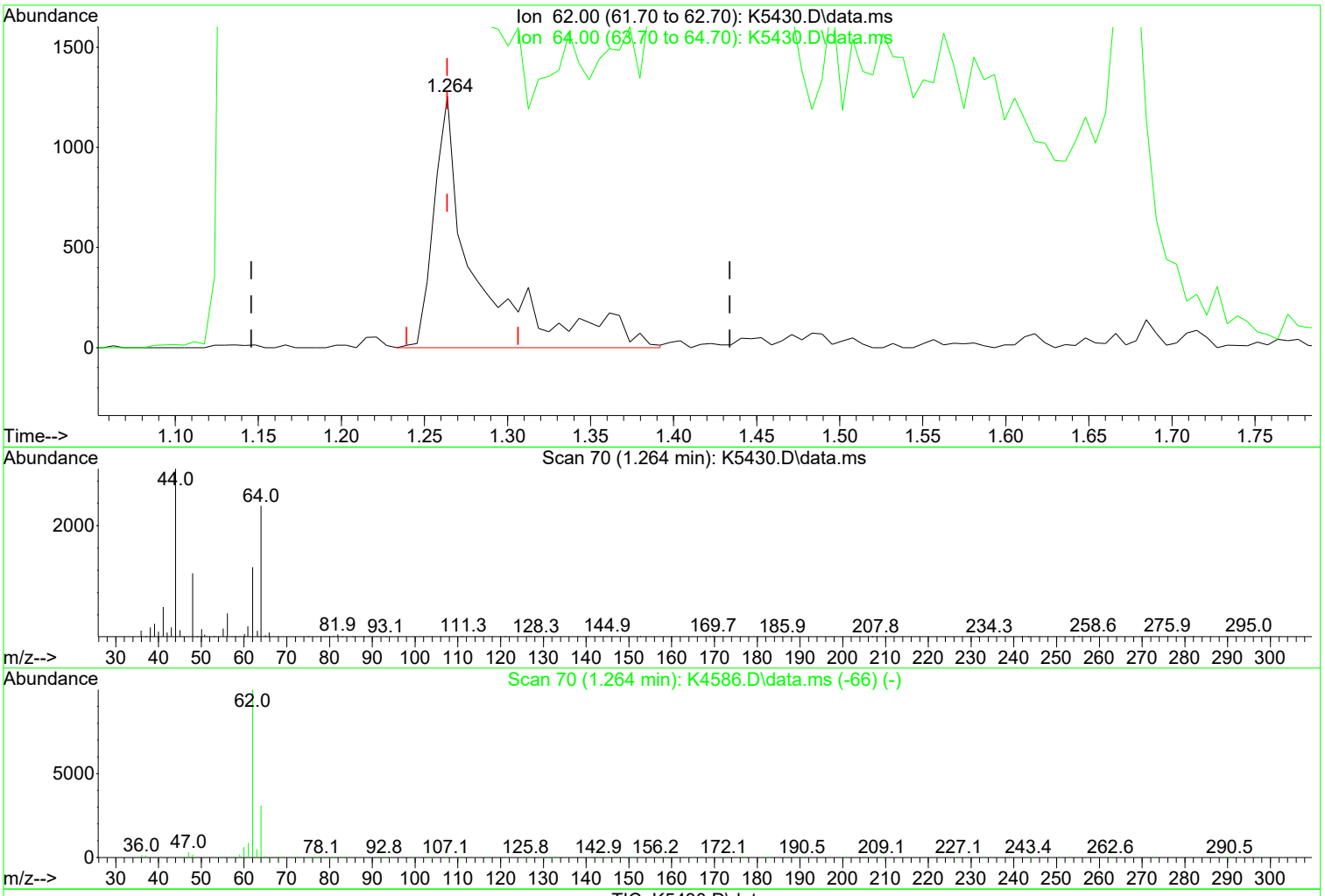
Before

09/02/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5430.D
Acq On : 31 Aug 2024 02:48 pm
Operator : F.NAEGLER
Sample : R2408139-010
Misc : CEC 26473 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 01 11:41:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration



TIC: K5430.D\data.ms

(5) Vinyl Chloride (P)

1.264min (-0.000) 0.44 ug/L m

response 2265

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.90	187.65#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

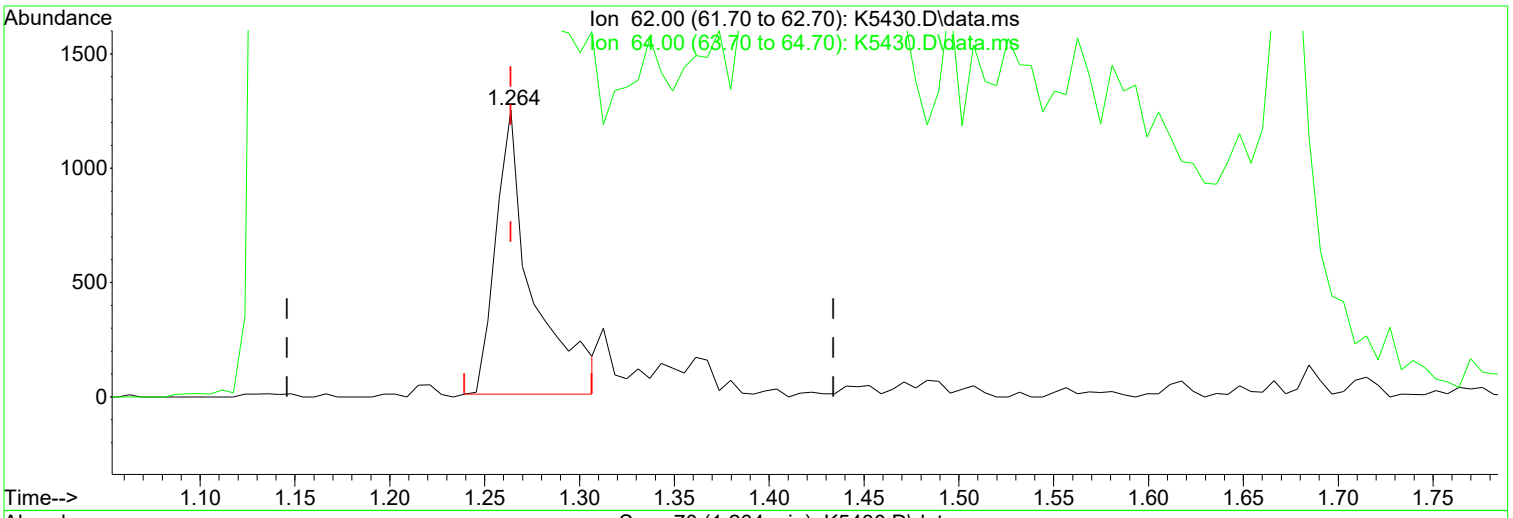
Poor integration.

09/02/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5430.D
Acq On : 31 Aug 2024 02:48 pm
Operator : F.NAEGLER
Sample : R2408139-010
Misc : CEC 26473 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 01 11:41:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration



TIC: K5430.D\data.ms

(5) Vinyl Chloride (P)

1.264min (-0.000) 0.32 ug/L

response 1658

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.90	187.65#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/02/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5430.D
Acq On : 31 Aug 2024 02:48 pm
Operator : F.NAEGLER
Sample : R2408139-010
Misc : CEC 26473 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 01 11:41:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

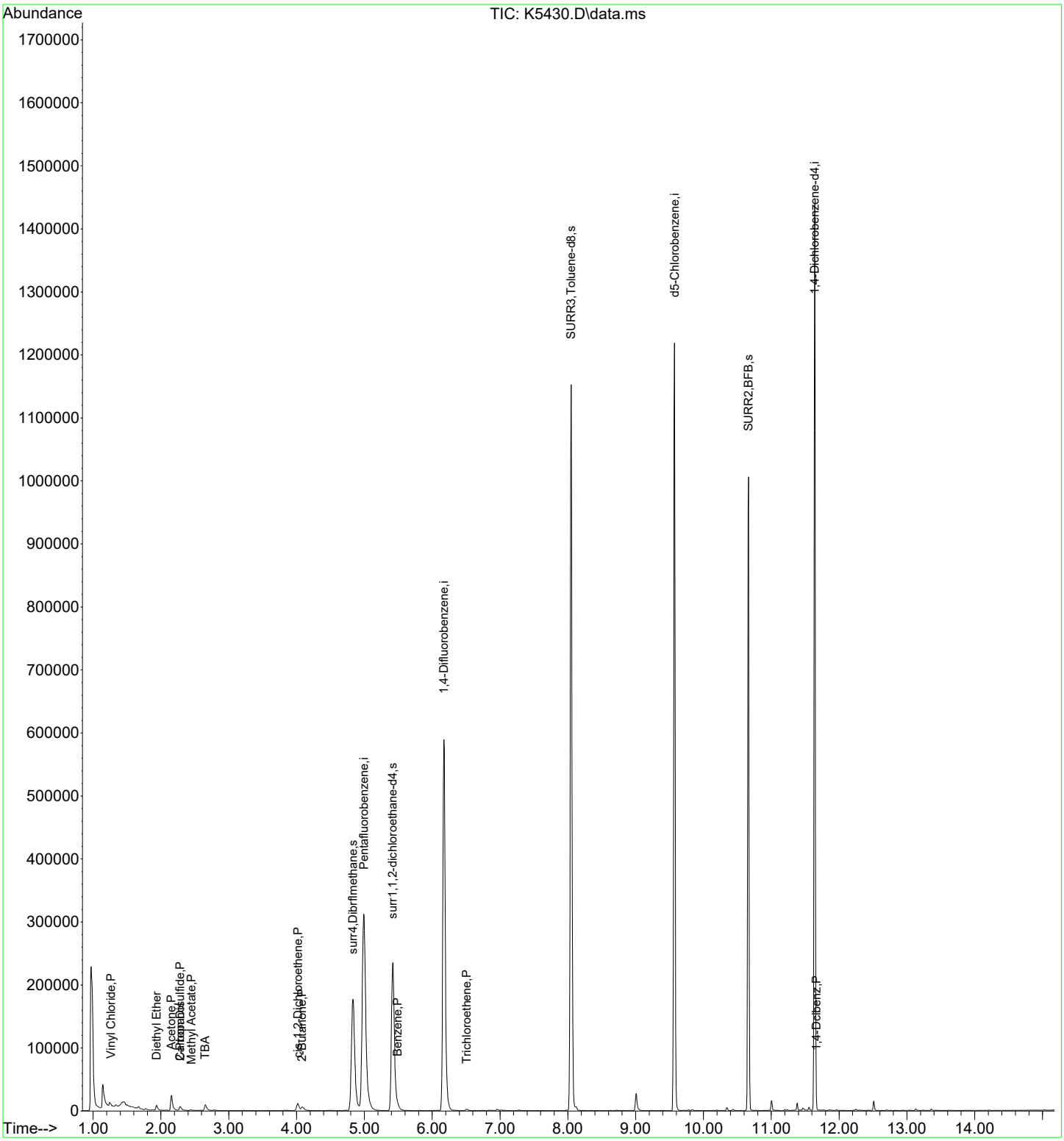
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	4.995	168	373673	50.00 ug/L	0.00
42) 1,4-Difluorobenzene	6.172	114	621265	50.00 ug/L	0.00
70) d5-Chlorobenzene	9.573	117	556596	50.00 ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	256205	50.00 ug/L	# 0.00
System Monitoring Compounds					
44) surr4,Dibrflmethane	4.830	113	193552	49.94 ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 99.88%		
47) surr1,1,2-dichloroetha...	5.416	65	268554	50.70 ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 101.40%		
64) SURR3,Toluene-d8	8.049	98	725799	51.04 ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.08%		
69) SURR2,BFB	10.665	95	276816	49.51 ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.02%		
Target Compounds					Qvalue
5) Vinyl Chloride	1.264	62	2265m	0.435 ug/L	
6) Bromomethane	1.465	94	250	Below Cal #	77
10) Diethyl Ether	1.934	59	4582	1.132 ug/L	96
16) Acetone	2.154	43	31381	10.492 ug/L	99
17) 2-Propanol	2.282	45	8347	14.151 ug/L	81
19) Carbon Disulfide	2.282	76	2693m	0.345 ug/L	
21) Methyl Acetate	2.447	43	1535	0.294 ug/L	83
23) TBA	2.654	59	11862	10.850 ug/L	94
33) cis-1,2-Dichloroethene	4.019	96	6573	1.626 ug/L	97
34) 2-Butanone	4.080	43	10841	3.038 ug/L	89
48) Benzene	5.489	78	3697	0.278 ug/L #	1
53) Trichloroethene	6.507	130	940	0.239 ug/L #	86
105) 1,4-Dclbenz	11.664	146	1735	0.220 ug/L	89

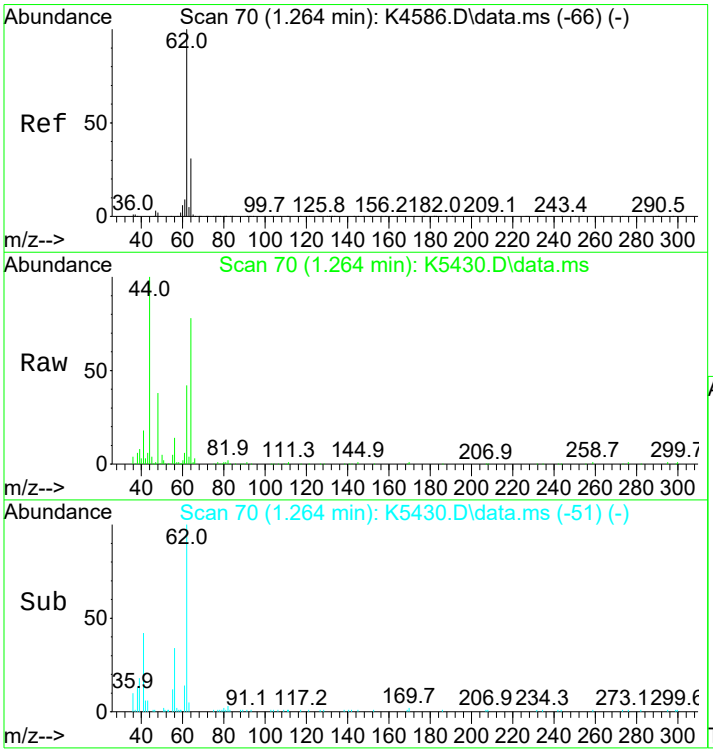
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5430.D
Acq On : 31 Aug 2024 02:48 pm
Operator : F.NAEGLER
Sample : R2408139-010
Misc : CEC 26473 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 01 11:41:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

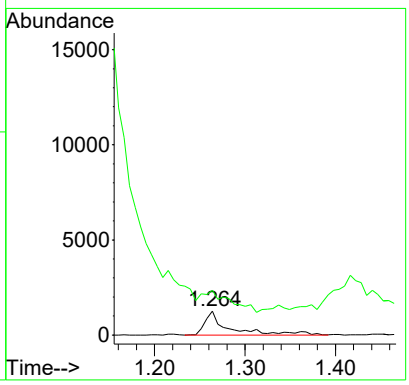


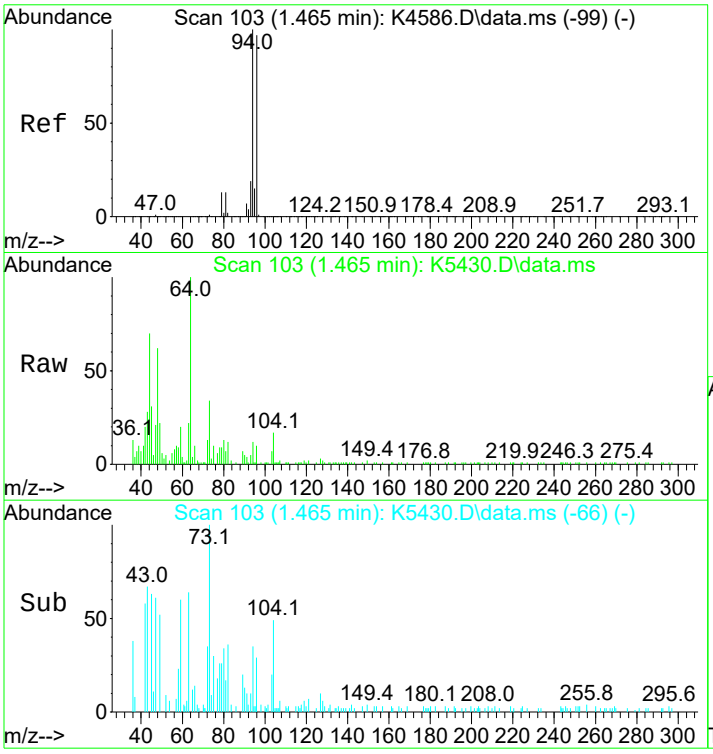


#5
Vinyl Chloride
Concen: 0.44 ug/L m
RT: 1.264 min Scan# 70
Delta R.T. -0.000 min
Lab File: K5430.D
Acq: 31 Aug 2024 02:48 pm

Tgt Ion: 62 Resp: 2265

Ion	Ratio	Lower	Upper
62	100		
64	187.6	10.9	50.9#

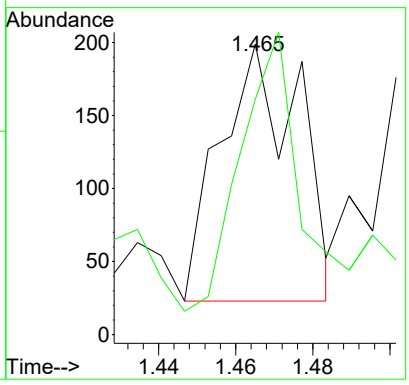


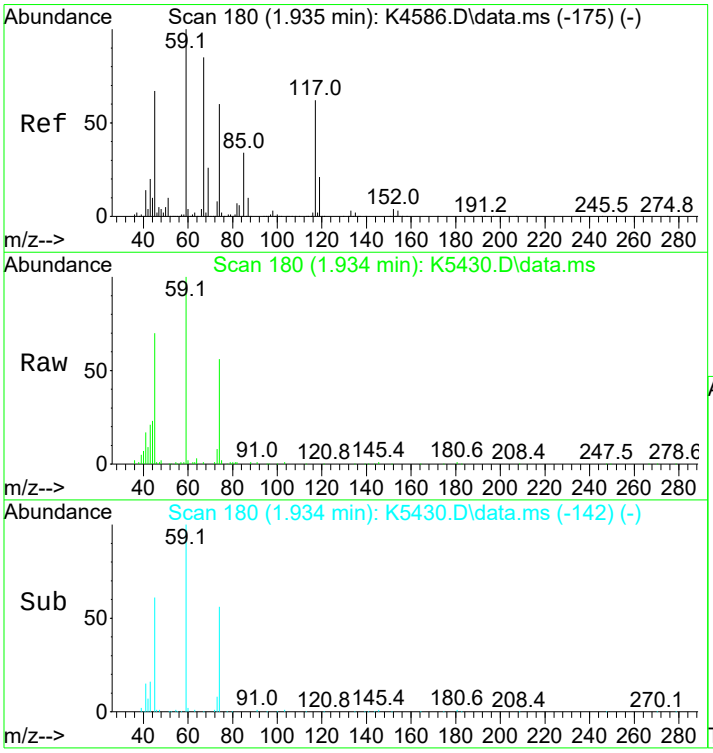


#6
Bromomethane
Concen: Below Cal
RT: 1.465 min Scan# 103
Delta R.T. 0.000 min
Lab File: K5430.D
Acq: 31 Aug 2024 02:48 pm

Tgt Ion: 94 Resp: 250

Ion	Ratio	Lower	Upper
94	100		
96	73.9	76.6	116.6#

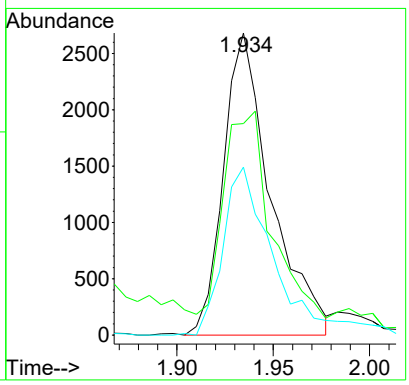


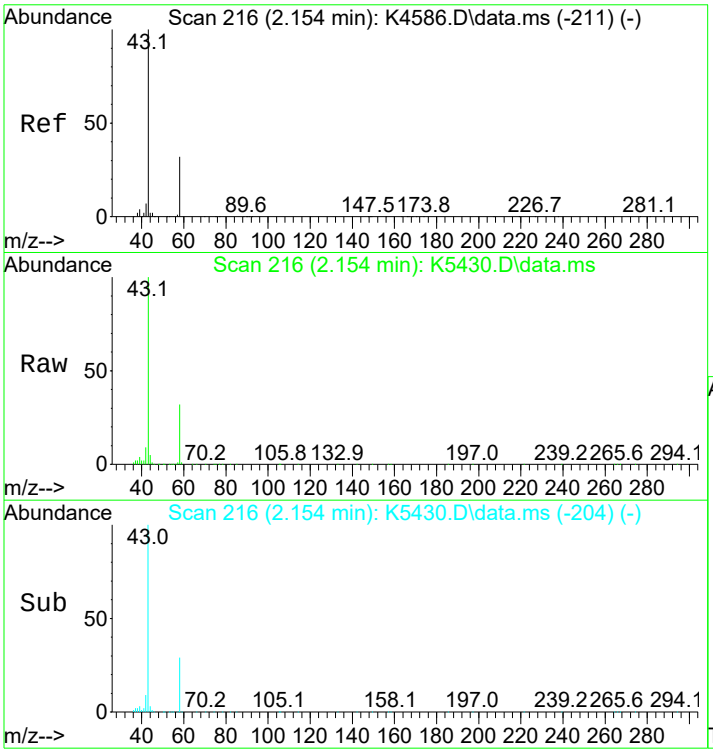


#10
Diethyl Ether
Concen: 1.13 ug/L
RT: 1.934 min Scan# 180
Delta R.T. -0.000 min
Lab File: K5430.D
Acq: 31 Aug 2024 02:48 pm

Tgt Ion: 59 Resp: 4582

Ion	Ratio	Lower	Upper
59	100		
45	70.0	47.3	87.3
74	55.6	39.8	79.8

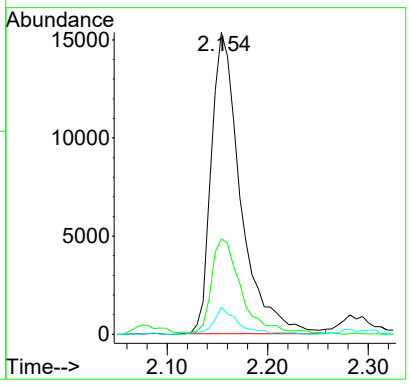


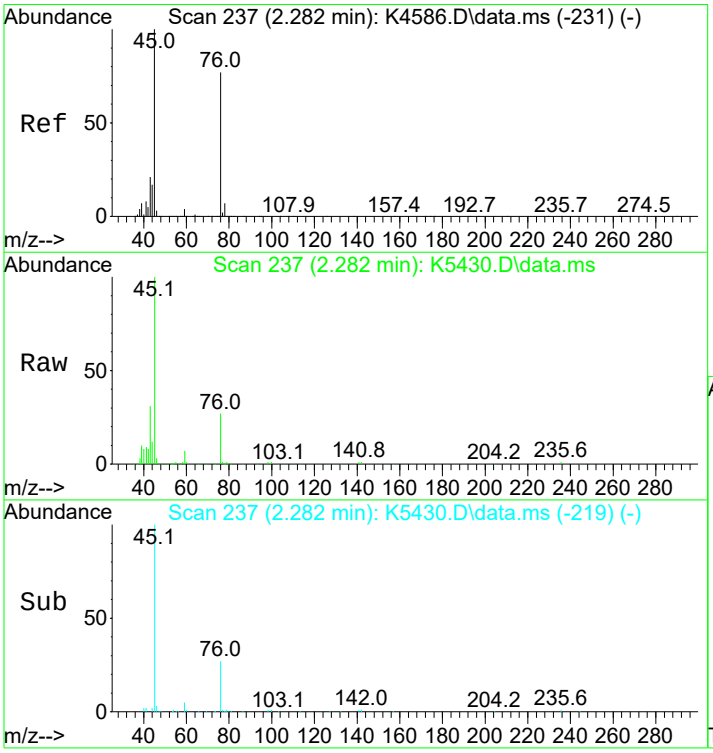


#16
Acetone
Concen: 10.49 ug/L
RT: 2.154 min Scan# 216
Delta R.T. -0.000 min
Lab File: K5430.D
Acq: 31 Aug 2024 02:48 pm

Tgt Ion: 43 Resp: 31381

Ion	Ratio	Lower	Upper
43	100		
58	31.6	11.5	51.5
42	8.9	0.0	27.3

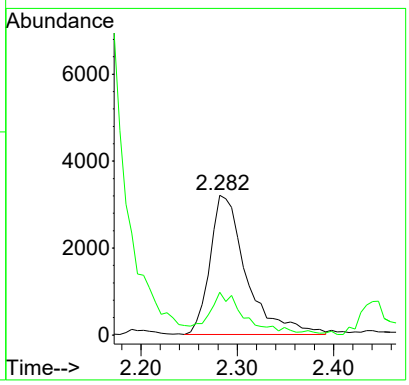


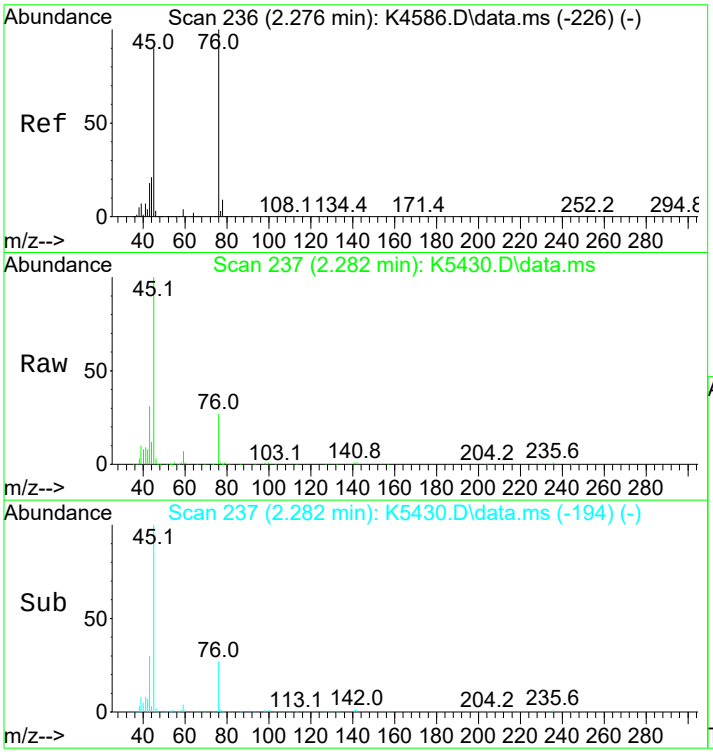


#17
2-Propanol
Concen: 14.15 ug/L
RT: 2.282 min Scan# 237
Delta R.T. -0.000 min
Lab File: K5430.D
Acq: 31 Aug 2024 02:48 pm

Tgt Ion: 45 Resp: 8347

Ion	Ratio	Lower	Upper
45	100		
43	30.5	1.4	41.4

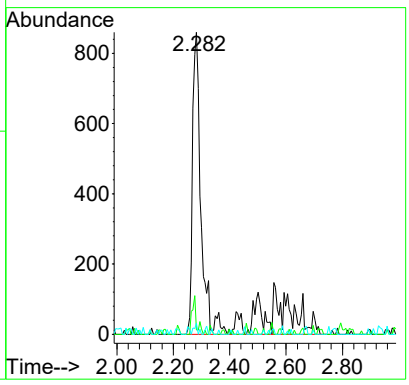


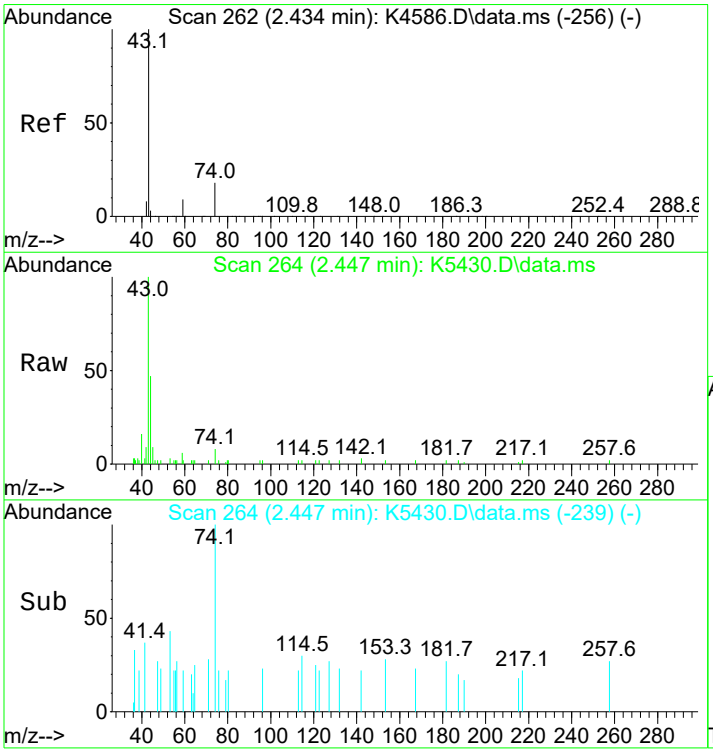


#19
Carbon Disulfide
Concen: 0.35 ug/L m
RT: 2.282 min Scan# 237
Delta R.T. 0.006 min
Lab File: K5430.D
Acq: 31 Aug 2024 02:48 pm

Tgt Ion: 76 Resp: 2693

Ion	Ratio	Lower	Upper
76	100		
78	1.4	0.0	29.2
77	2.3	0.0	22.7

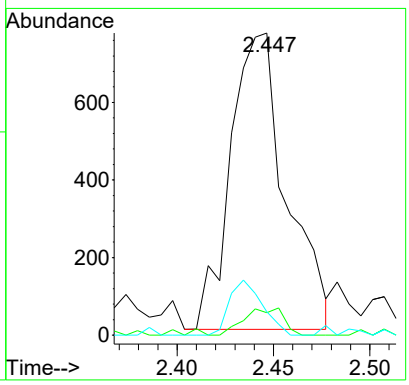


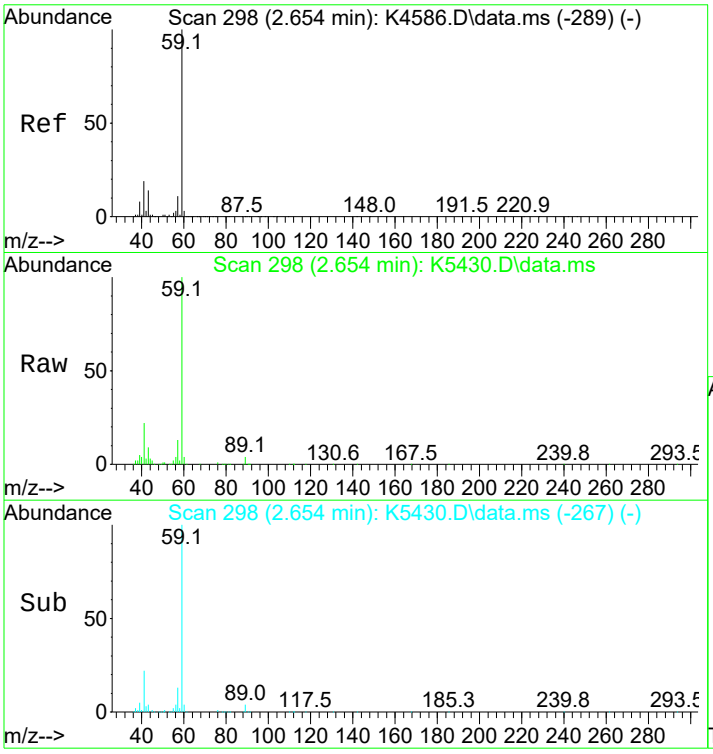


#21
Methyl Acetate
Concen: 0.29 ug/L
RT: 2.447 min Scan# 264
Delta R.T. 0.012 min
Lab File: K5430.D
Acq: 31 Aug 2024 02:48 pm

Tgt Ion: 43 Resp: 1535

Ion	Ratio	Lower	Upper
43	100		
59	7.4	0.0	29.1
74	7.7	0.0	38.1

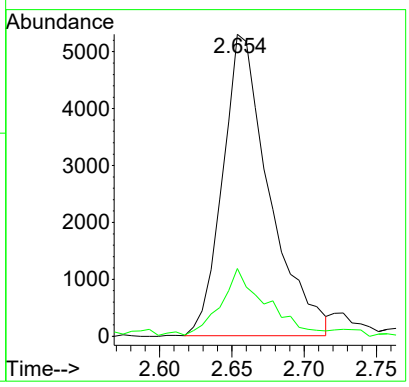


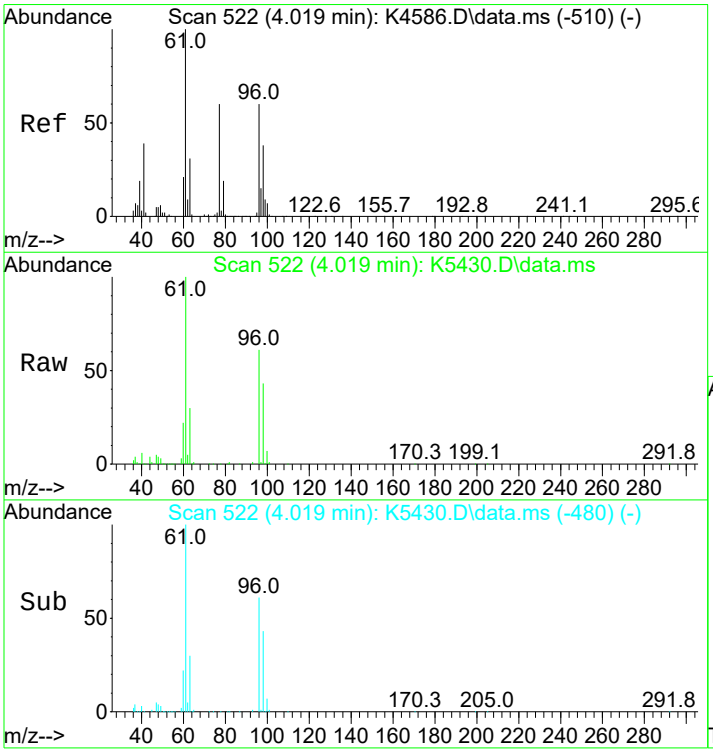


#23
TBA
Concen: 10.85 ug/L
RT: 2.654 min Scan# 298
Delta R.T. -0.000 min
Lab File: K5430.D
Acq: 31 Aug 2024 02:48 pm

Tgt Ion: 59 Resp: 11862

Ion	Ratio	Lower	Upper
59	100		
41	22.4	0.0	39.7

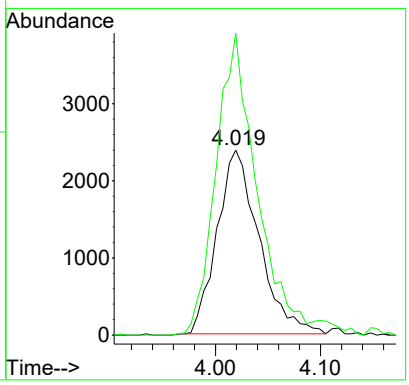


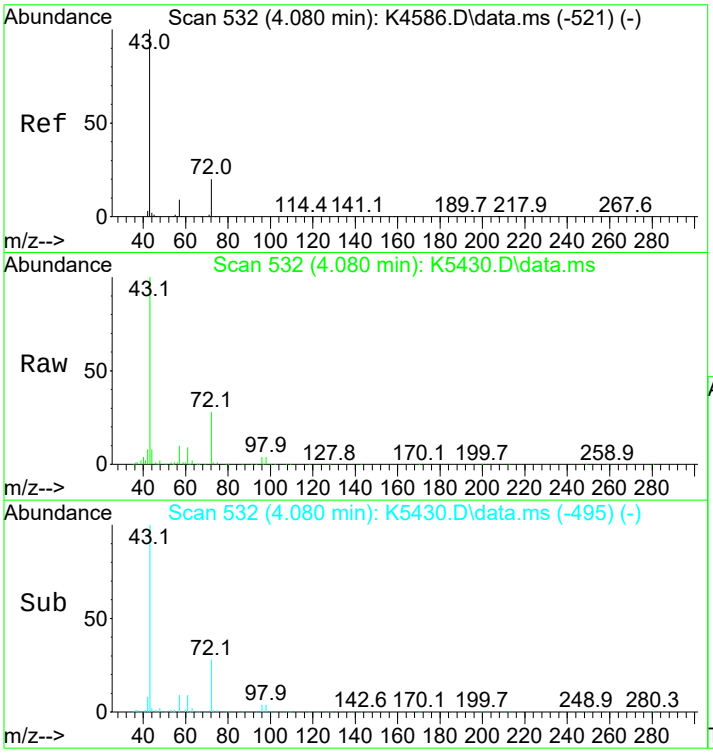


#33
cis-1,2-Dichloroethene
Concen: 1.63 ug/L
RT: 4.019 min Scan# 522
Delta R.T. -0.000 min
Lab File: K5430.D
Acq: 31 Aug 2024 02:48 pm

Tgt Ion: 96 Resp: 6573

Ion	Ratio	Lower	Upper
96	100		
61	163.3	147.9	187.9

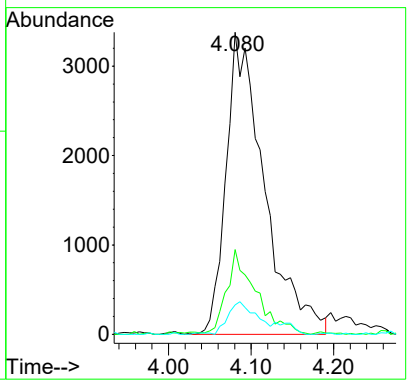


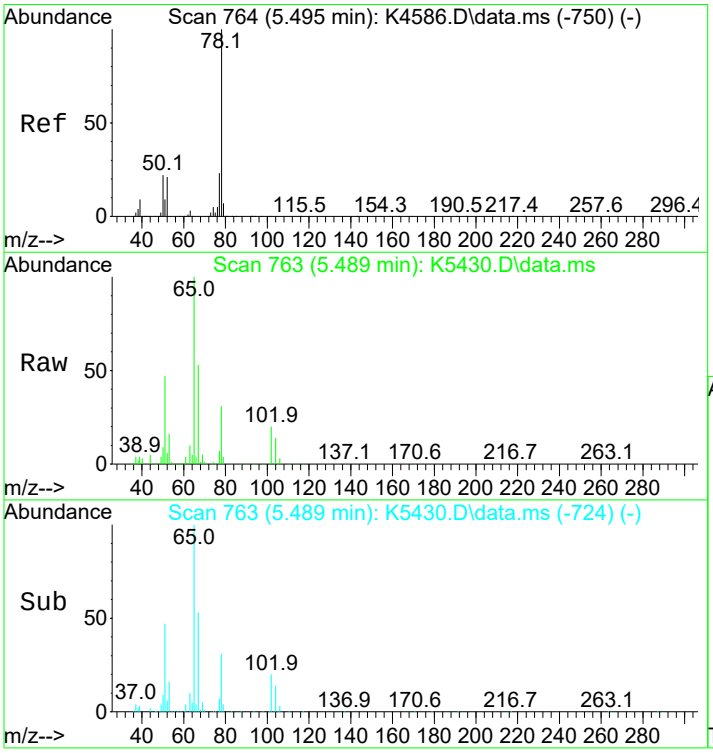


#34
2-Butanone
Concen: 3.04 ug/L
RT: 4.080 min Scan# 532
Delta R.T. -0.000 min
Lab File: K5430.D
Acq: 31 Aug 2024 02:48 pm

Tgt Ion: 43 Resp: 10841

Ion	Ratio	Lower	Upper
43	100		
72	28.1	1.2	41.2
57	9.7	0.0	29.2

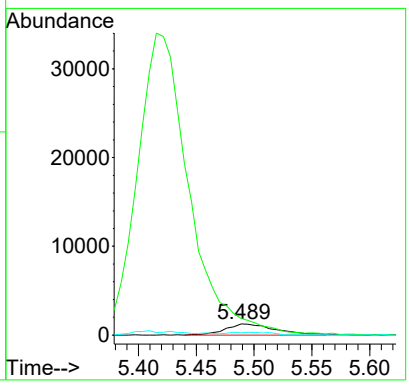


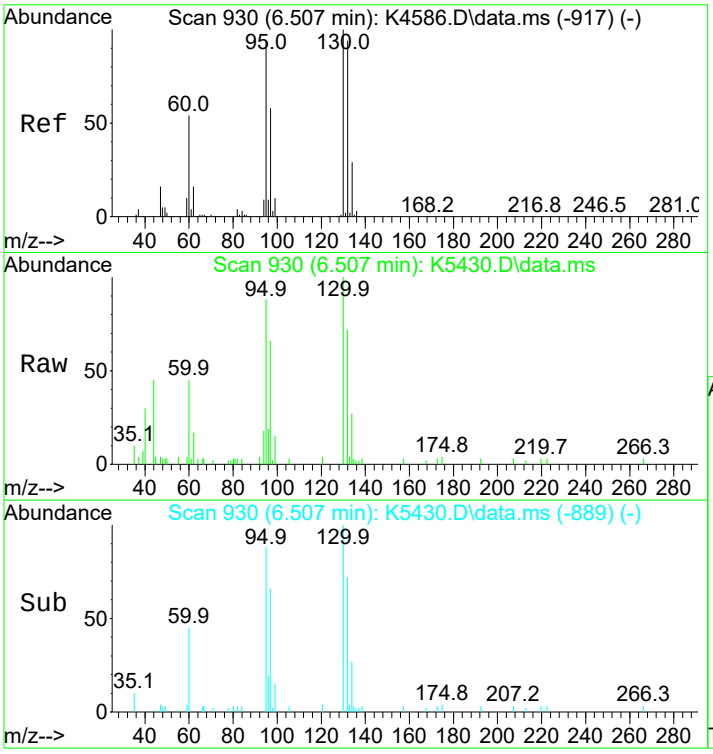


#48
Benzene
Concen: 0.28 ug/L
RT: 5.489 min Scan# 763
Delta R.T. -0.006 min
Lab File: K5430.D
Acq: 31 Aug 2024 02:48 pm

Tgt Ion: 78 Resp: 3697

Ion	Ratio	Lower	Upper
78	100		
51	149.3	3.1	43.1#
52	18.4	1.2	41.2

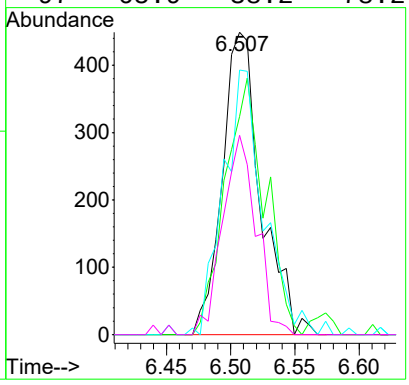


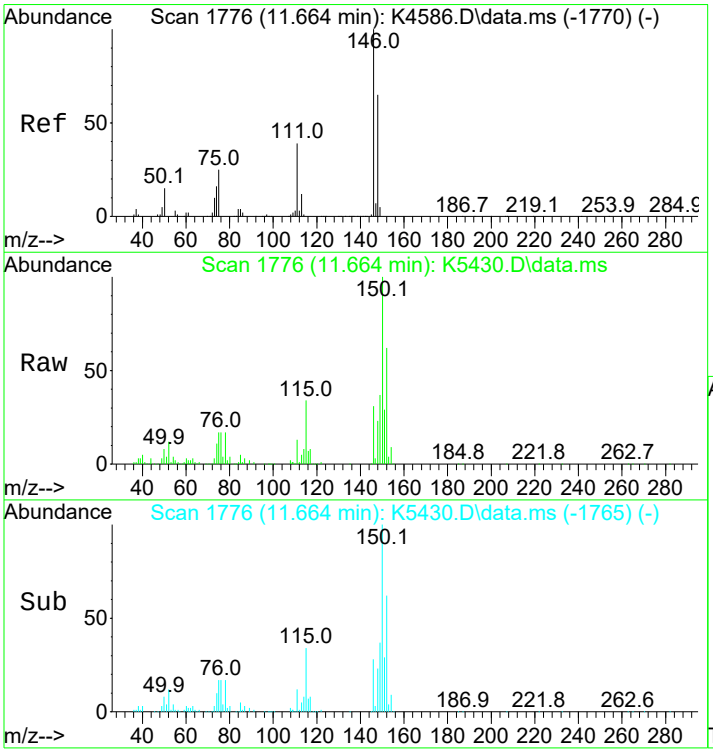


#53
Trichloroethene
Concen: 0.24 ug/L
RT: 6.507 min Scan# 930
Delta R.T. -0.000 min
Lab File: K5430.D
Acq: 31 Aug 2024 02:48 pm

Tgt Ion:130 Resp: 940

Ion	Ratio	Lower	Upper
130	100		
132	72.2	74.0	114.0#
95	87.5	74.1	114.1
97	65.9	38.2	78.2

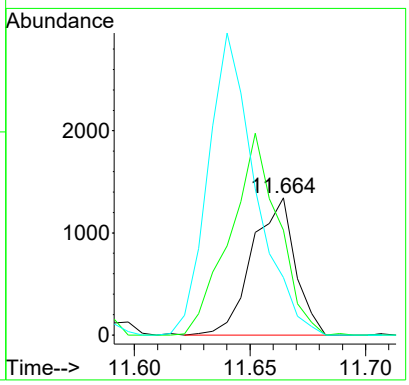




#105
1,4-Dclbenz
Concen: 0.22 ug/L
RT: 11.664 min Scan# 1776
Delta R.T. -0.000 min
Lab File: K5430.D
Acq: 31 Aug 2024 02:48 pm

Tgt Ion:146 Resp: 1735

Ion	Ratio	Lower	Upper
146	100		
148	76.5	44.8	84.8
111	42.0	18.8	58.8



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5426.D
Acq On : 31 Aug 2024 01:16 pm
Operator : F.NAEGLER
Sample : R2408139-011
Misc : CEC 26473 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 01 11:39:01 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

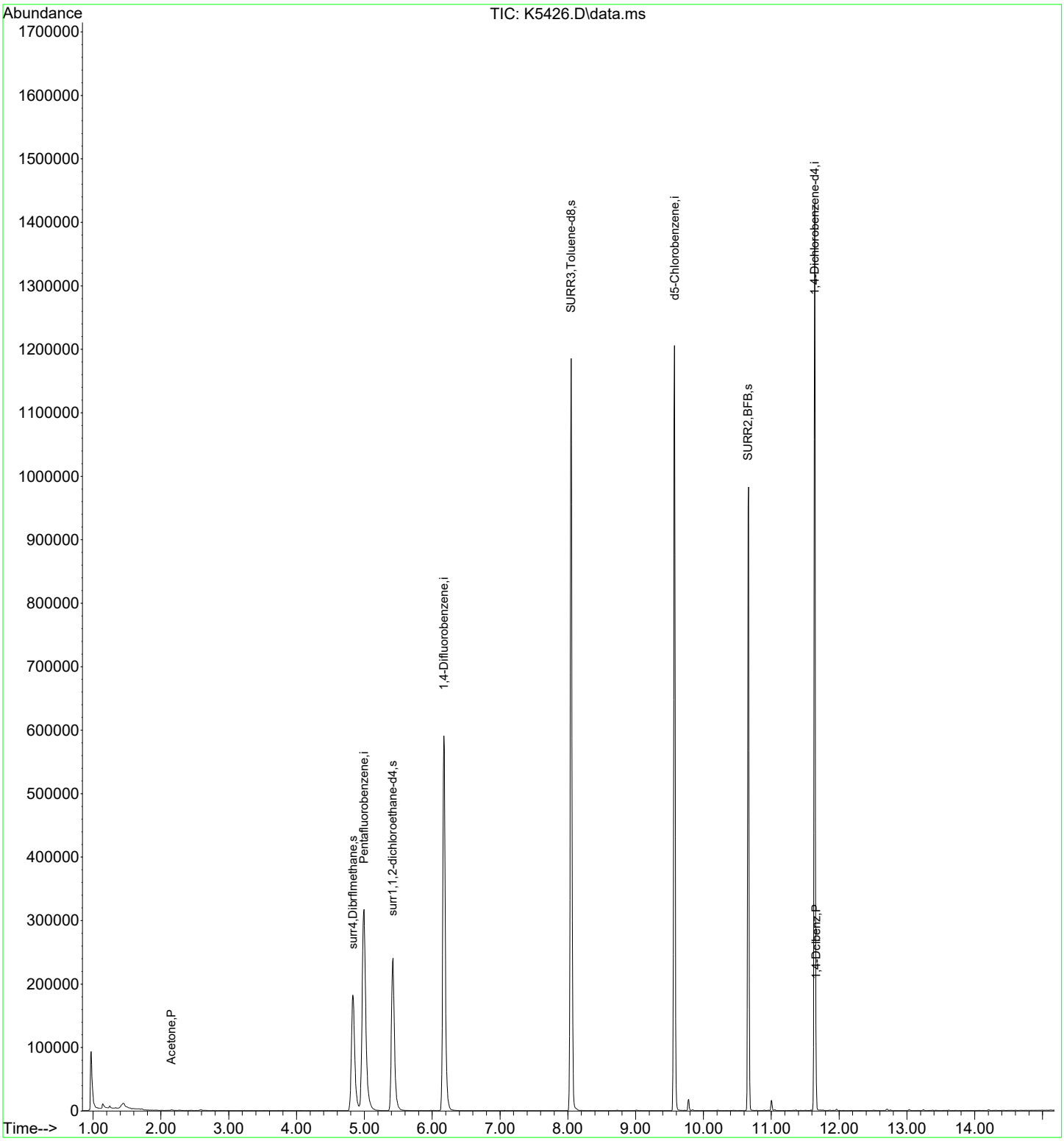
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.995	168	379267	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.171	114	628963	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.573	117	558567	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	256910	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.830	113	196419	50.06	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 100.12%			
47) surr1,1,2-dichloroetha...	5.416	65	275154	51.31	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.62%			
64) SURR3,Toluene-d8	8.049	98	737526	51.23	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.46%			
69) SURR2,BFB	10.658	95	270801	47.84	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 95.68%			
Target Compounds						Qvalue
16) Acetone	2.154	43	1580	0.520	ug/L	87
105) 1,4-Dclbenz	11.658	146	9896	1.249	ug/L	87

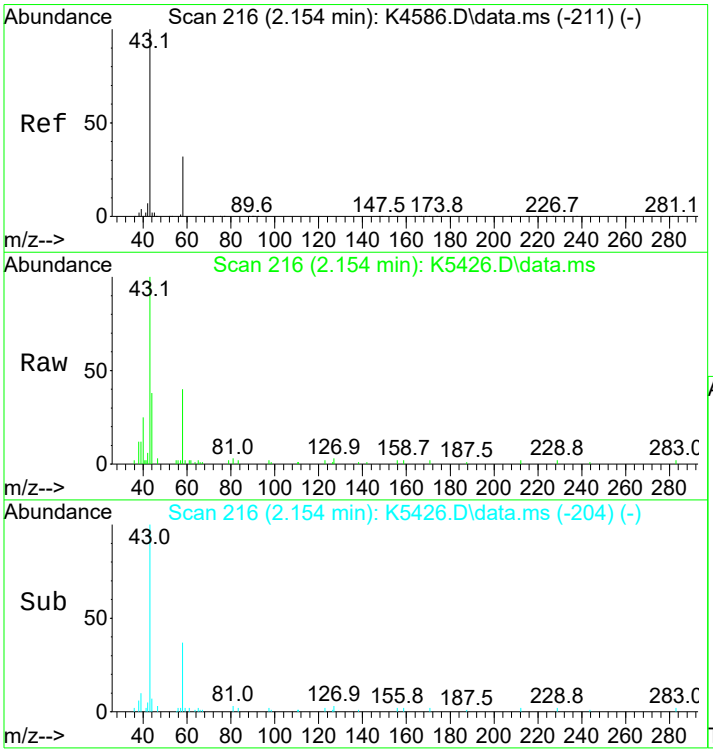
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5426.D
Acq On : 31 Aug 2024 01:16 pm
Operator : F.NAEGLER
Sample : R2408139-011
Misc : CEC 26473 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 01 11:39:01 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

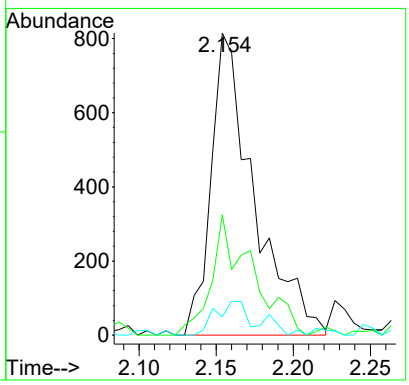


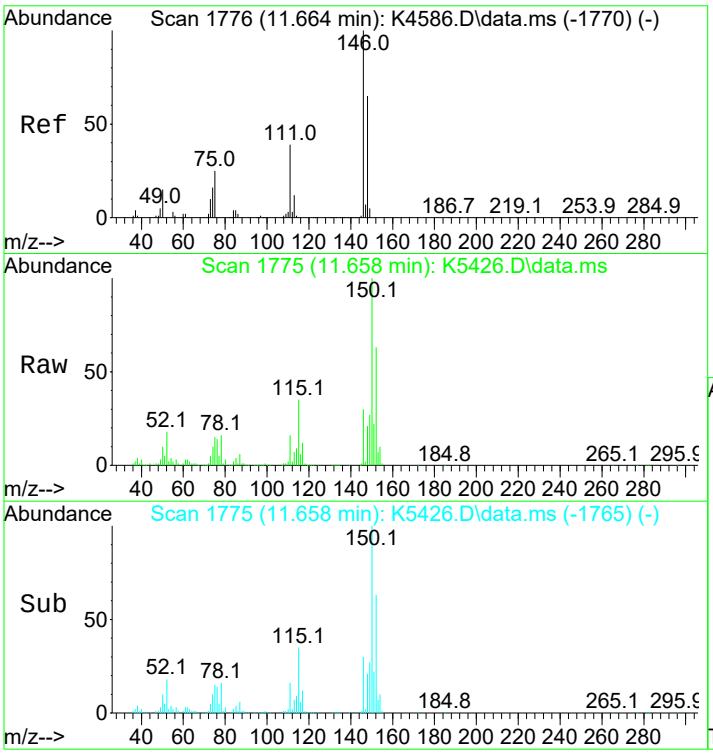


#16
Acetone
Concen: 0.52 ug/L
RT: 2.154 min Scan# 216
Delta R.T. -0.000 min
Lab File: K5426.D
Acq: 31 Aug 2024 01:16 pm

Tgt Ion: 43 Resp: 1580

Ion	Ratio	Lower	Upper
43	100		
58	39.9	11.5	51.5
42	6.0	0.0	27.3

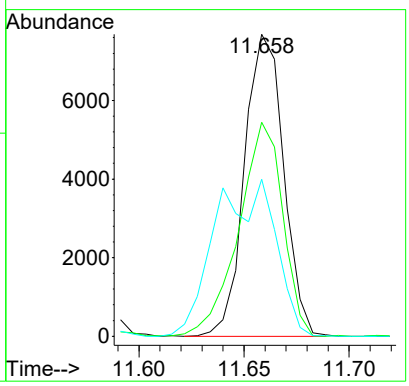




#105
1,4-Dclbenz
Concen: 1.25 ug/L
RT: 11.658 min Scan# 1775
Delta R.T. -0.006 min
Lab File: K5426.D
Acq: 31 Aug 2024 01:16 pm

Tgt Ion:146 Resp: 9896

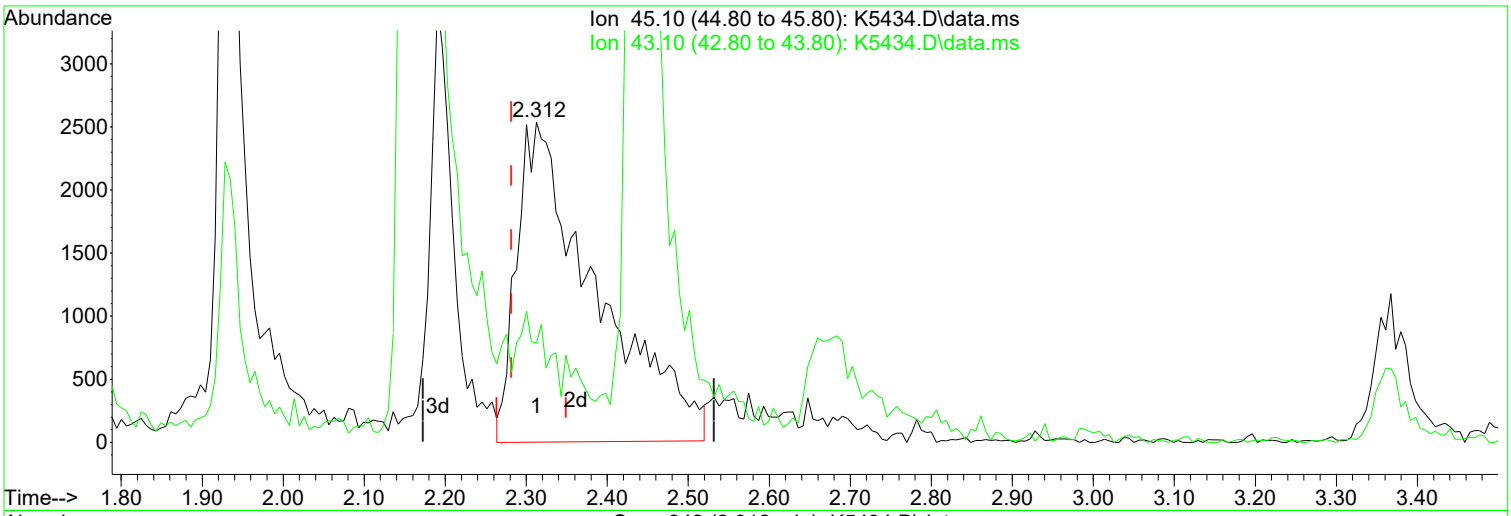
Ion	Ratio	Lower	Upper
146	100		
148	70.8	44.8	84.8
111	52.0	18.8	58.8

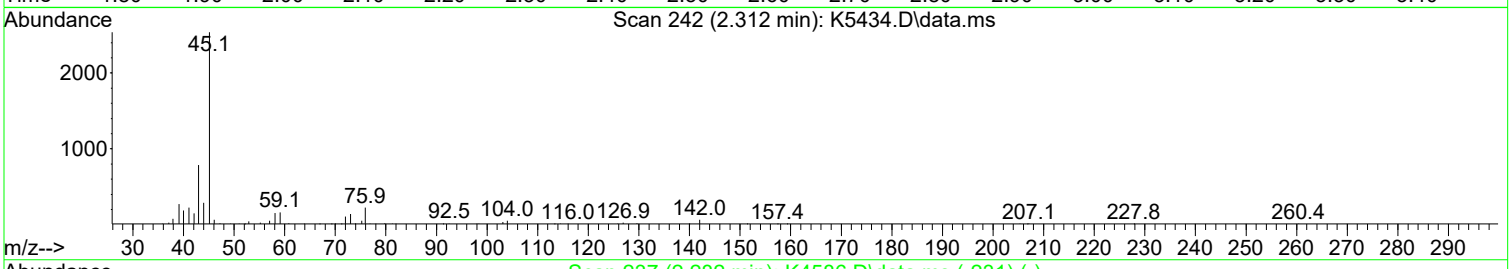


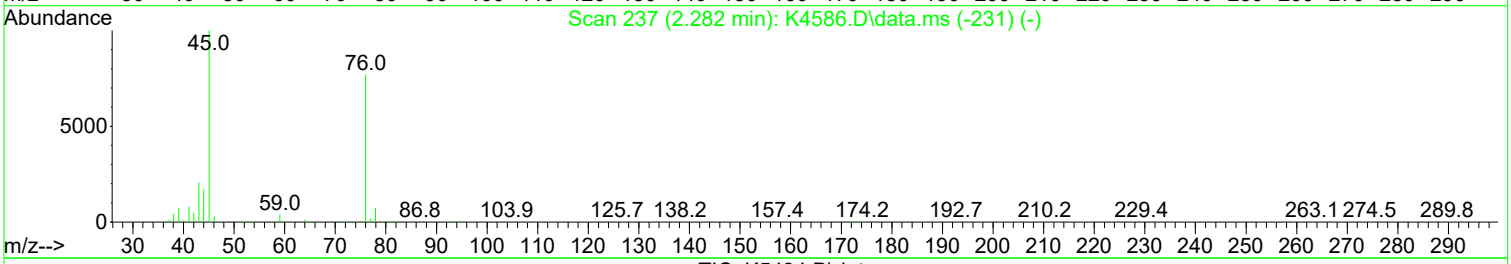
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5434.D
Acq On : 31 Aug 2024 04:22 pm
Operator : F.NAEGLER
Sample : R2408139-012|2.0
Misc : CEC 26473 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 01 11:43:29 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5434.D\data.ms

(17) 2-Propanol

2.312min (+ 0.030) 29.69 ug/L m

response 17192

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	21.40	30.98
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

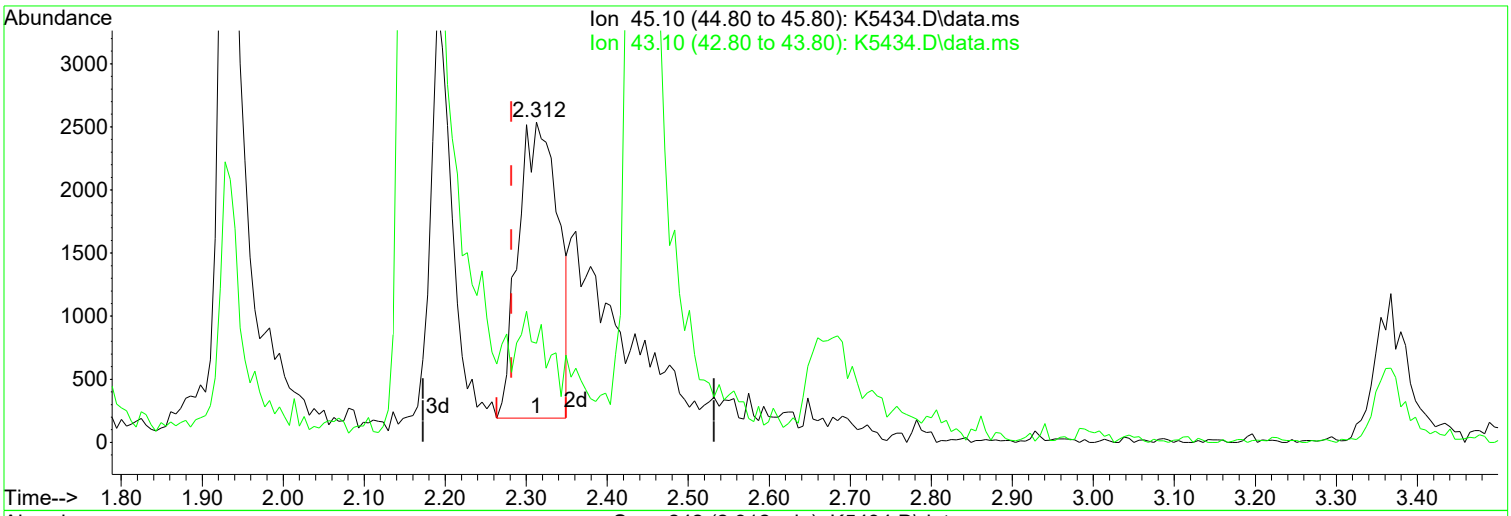
Poor integration.

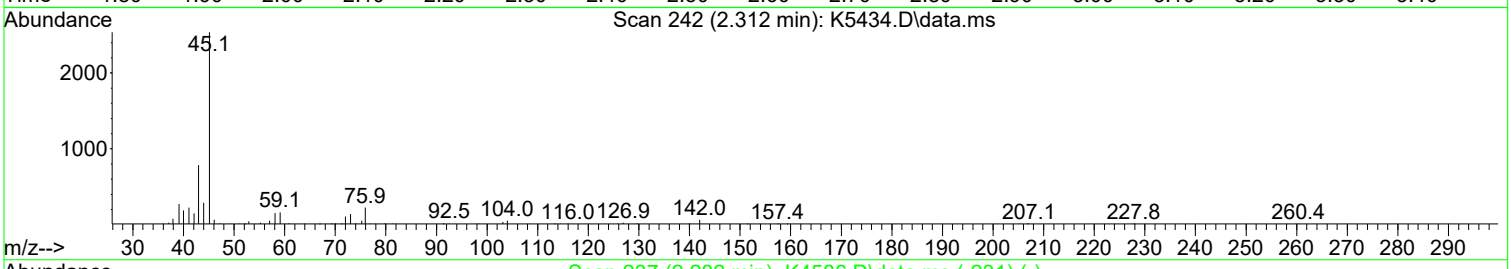
09/02/24

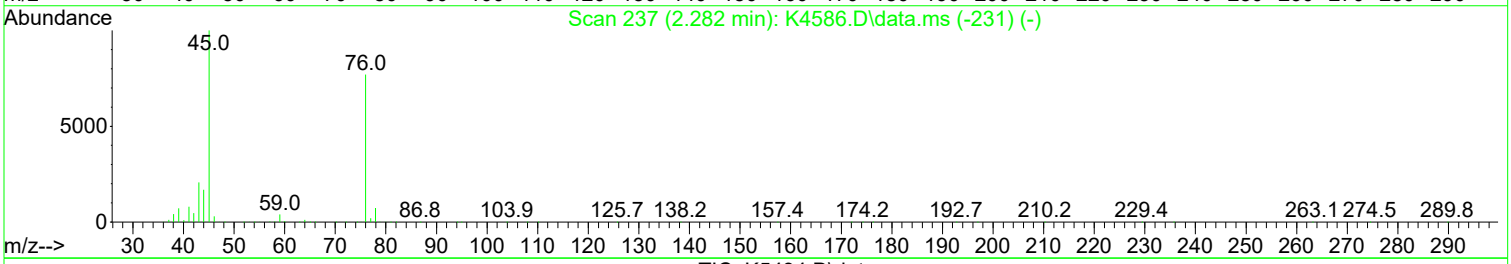
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5434.D
Acq On : 31 Aug 2024 04:22 pm
Operator : F.NAEGLER
Sample : R2408139-012|2.0
Misc : CEC 26473 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 01 11:43:29 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5434.D\data.ms

(17) 2-Propanol

2.312min (+ 0.030) 13.83 ug/L

response 8010

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	21.40	30.98
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

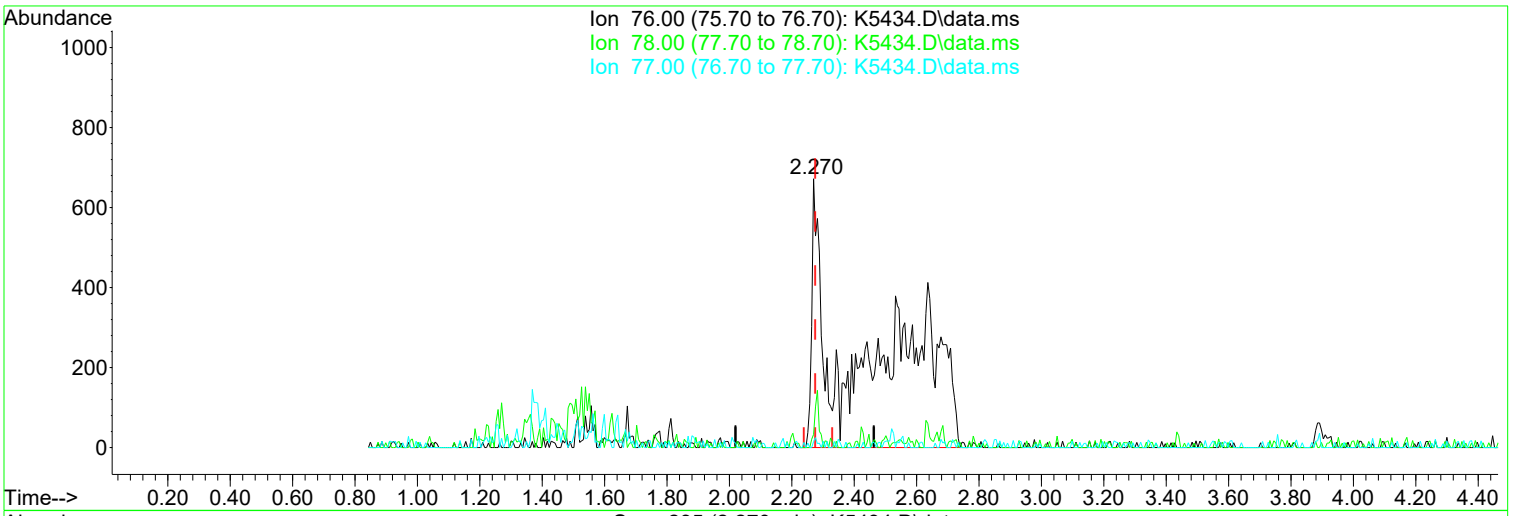
Before

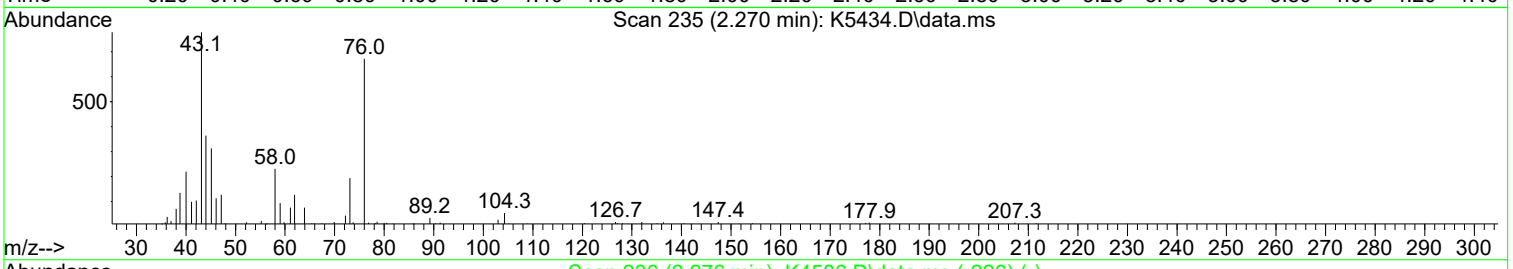
09/02/24

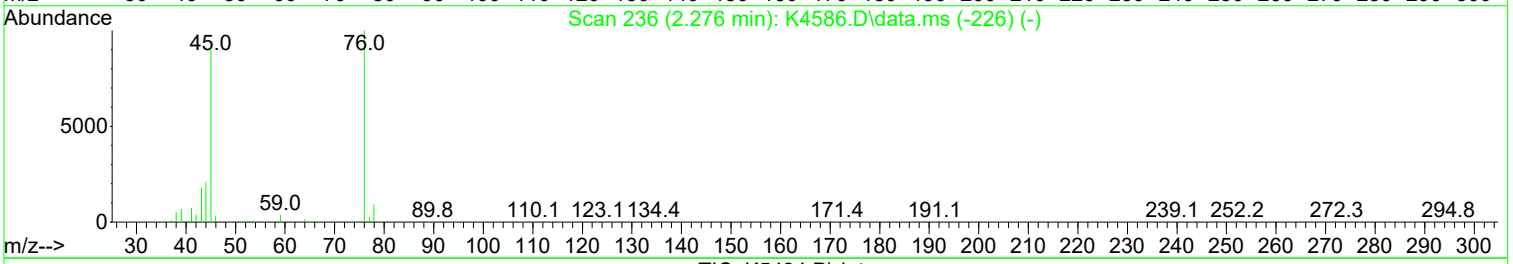
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5434.D
Acq On : 31 Aug 2024 04:22 pm
Operator : F.NAEGLER
Sample : R2408139-012|2.0
Misc : CEC 26473 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 01 11:43:29 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5434.D\data.ms

(19) Carbon Disulfide (P)

2.270min (-0.006) 0.88 ug/L m

response 6760

Ion	Exp%	Act%
76.00	100.00	100.00
78.00	9.20	2.83
77.00	2.70	2.23
0.00	0.00	0.00

Manual Integration:

After

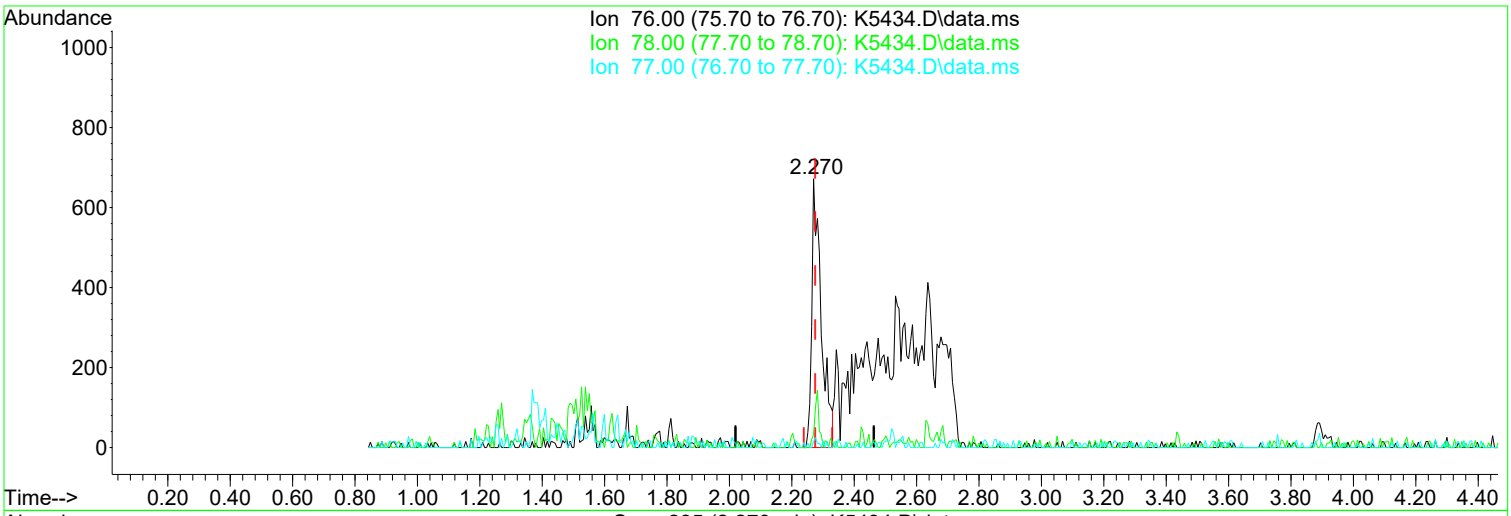
Poor integration.

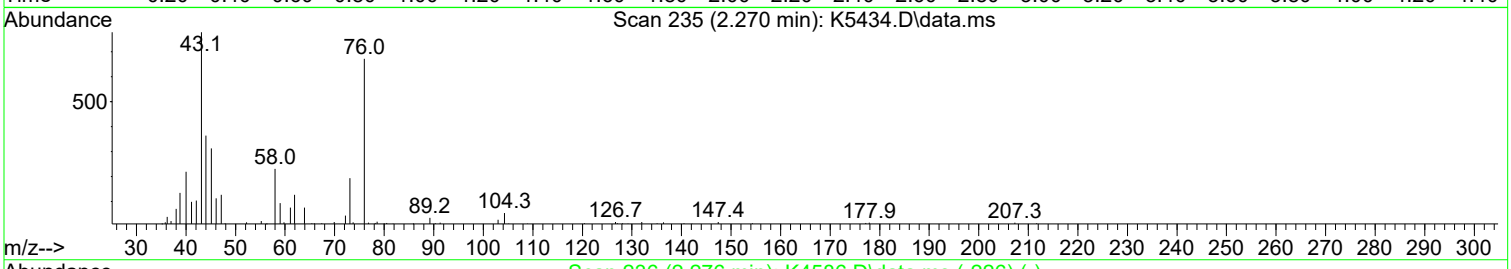
09/02/24

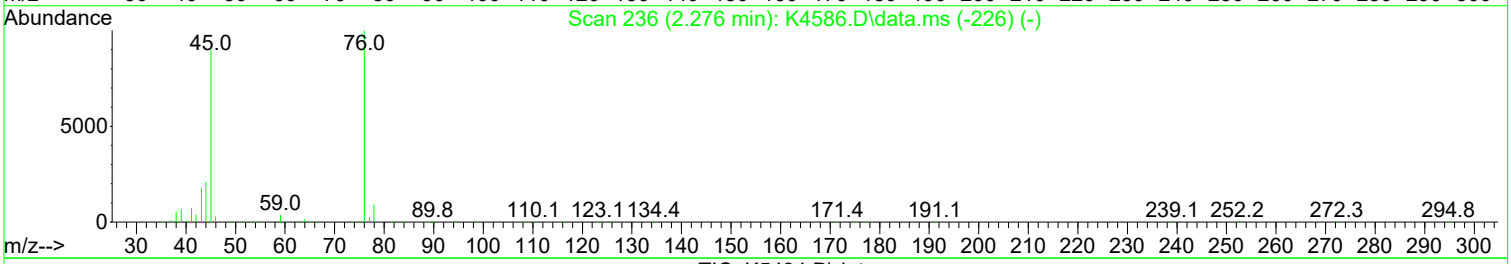
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5434.D
Acq On : 31 Aug 2024 04:22 pm
Operator : F.NAEGLER
Sample : R2408139-012|2.0
Misc : CEC 26473 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 01 11:43:29 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5434.D\data.ms

(19) Carbon Disulfide (P)

2.270min (-0.006) 0.18 ug/L

response 1416

Ion	Exp%	Act%
76.00	100.00	100.00
78.00	9.20	4.91
77.00	2.70	2.23
0.00	0.00	0.00

Manual Integration:

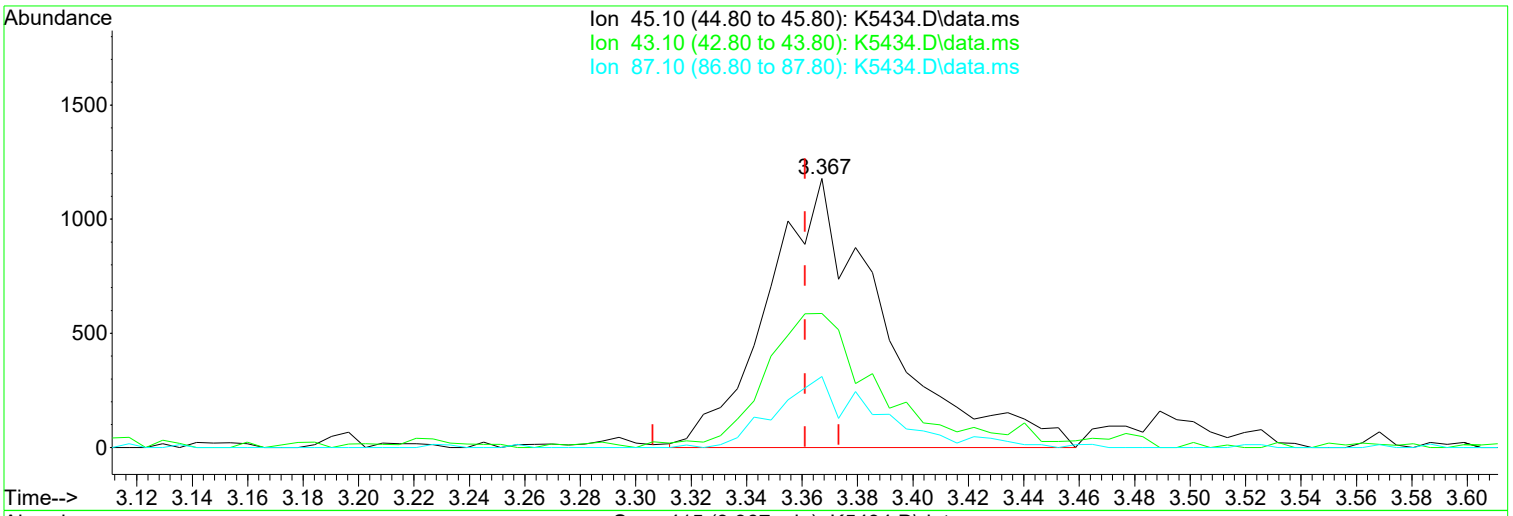
Before

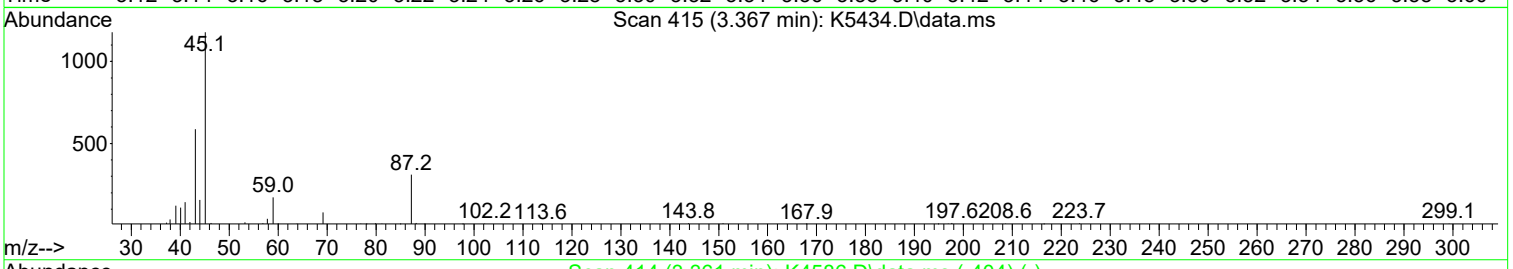
09/02/24

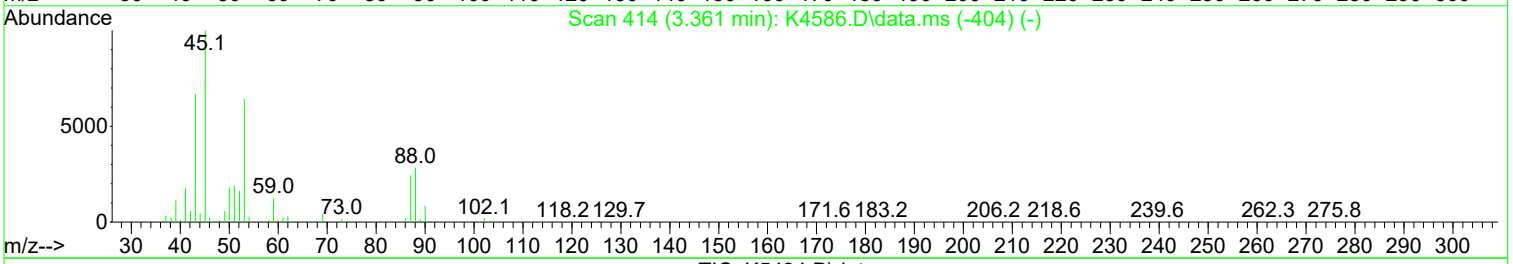
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5434.D
Acq On : 31 Aug 2024 04:22 pm
Operator : F.NAEGLER
Sample : R2408139-012|2.0
Misc : CEC 26473 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 01 11:43:29 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5434.D\data.ms

(29) DIPE

3.367min (+ 0.006) 0.27 ug/L m

response 3434

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	69.70	49.83
87.10	24.50	26.40
0.00	0.00	0.00

Manual Integration:

After

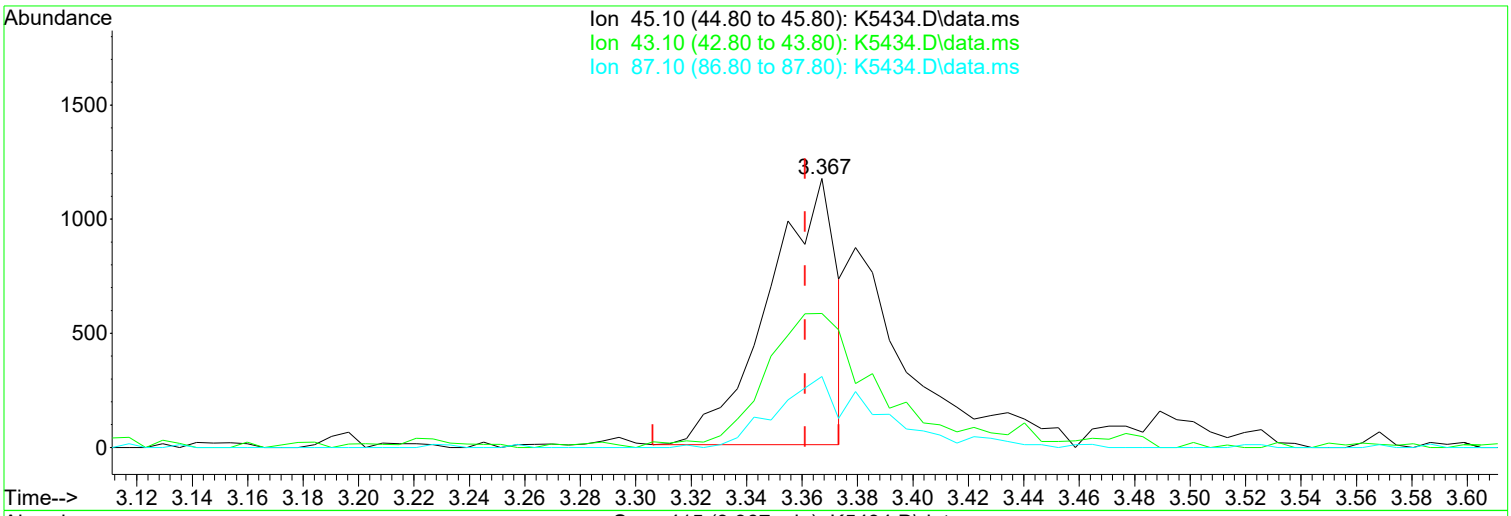
Poor integration.

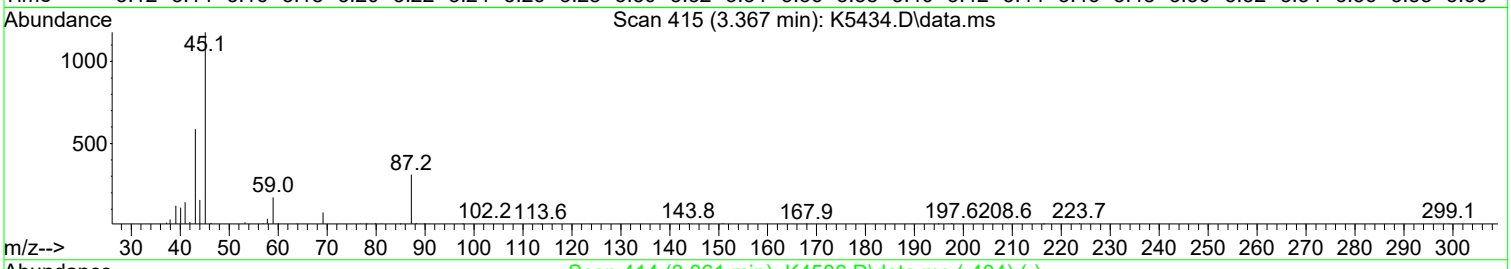
09/02/24

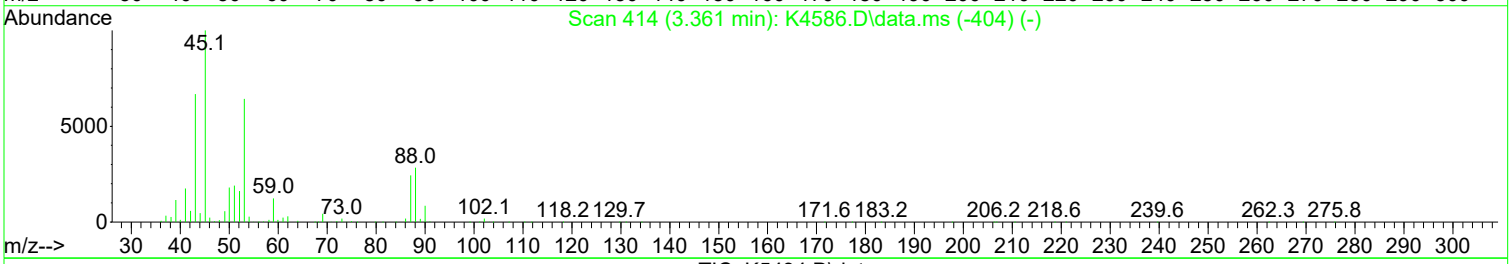
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5434.D
Acq On : 31 Aug 2024 04:22 pm
Operator : F.NAEGLER
Sample : R2408139-012|2.0
Misc : CEC 26473 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 01 11:43:29 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5434.D\data.ms

(29) DIPE

3.367min (+ 0.006) 0.16 ug/L

response 1990

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	69.70	49.83
87.10	24.50	26.40
0.00	0.00	0.00

Manual Integration:

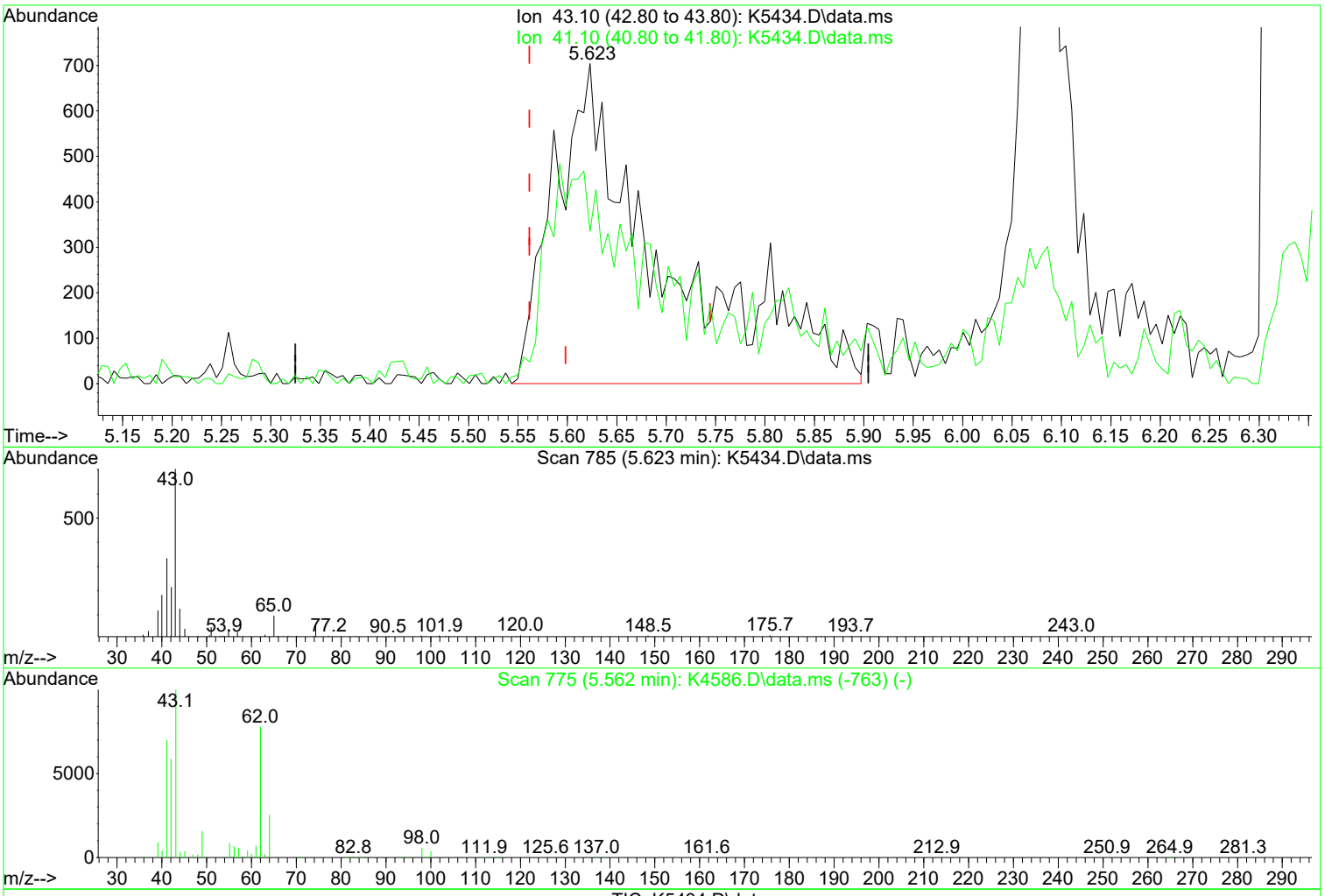
Before

09/02/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5434.D
Acq On : 31 Aug 2024 04:22 pm
Operator : F.NAEGLER
Sample : R2408139-012|2.0
Misc : CEC 26473 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 01 11:43:29 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration



TIC: K5434.D\data.ms

(50) Iso-Butyl Alcohol

5.623min (+ 0.061) 16.89 ug/L m

response 5346

Ion	Exp%	Act%
43.10	100.00	100.00
41.10	70.10	47.59#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

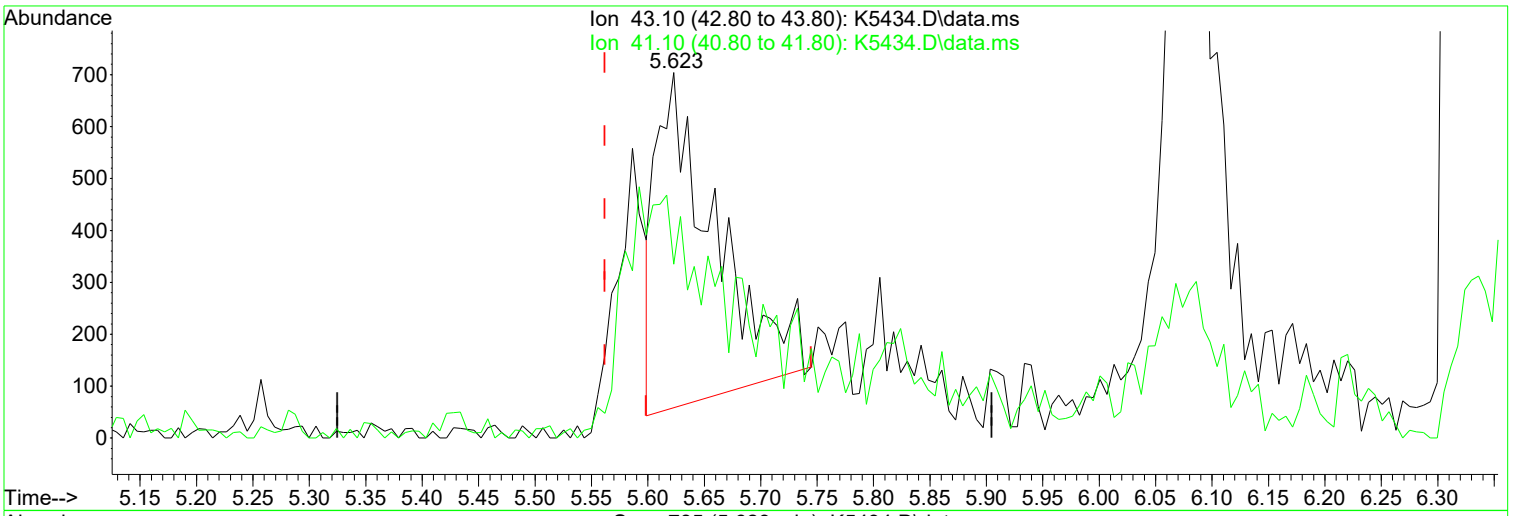
Poor integration.

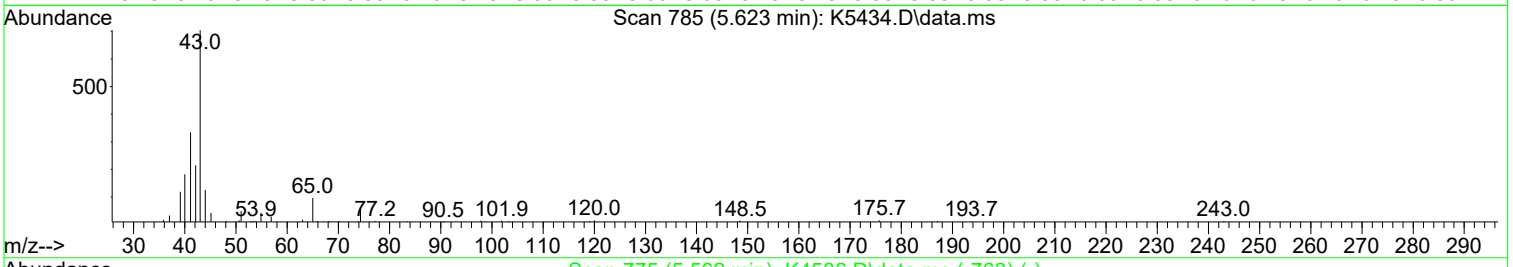
09/02/24

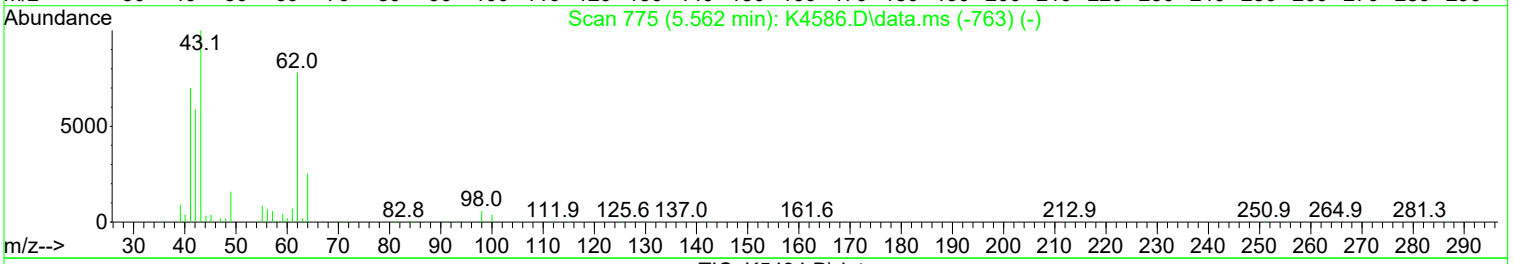
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5434.D
Acq On : 31 Aug 2024 04:22 pm
Operator : F.NAEGLER
Sample : R2408139-012|2.0
Misc : CEC 26473 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 01 11:43:29 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5434.D\data.ms

(50) Iso-Butyl Alcohol

5.623min (+ 0.061) 7.44 ug/L

response 2355

Ion	Exp%	Act%
43.10	100.00	100.00
41.10	70.10	47.59#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/02/24

1st FJ 09/02/24
2nd AM 09/03/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5434.D
Acq On : 31 Aug 2024 04:22 pm
Operator : F.NAEGLER
Sample : R2408139-012|2.0
Misc : CEC 26473 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 01 11:43:29 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m rpt 1/5
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

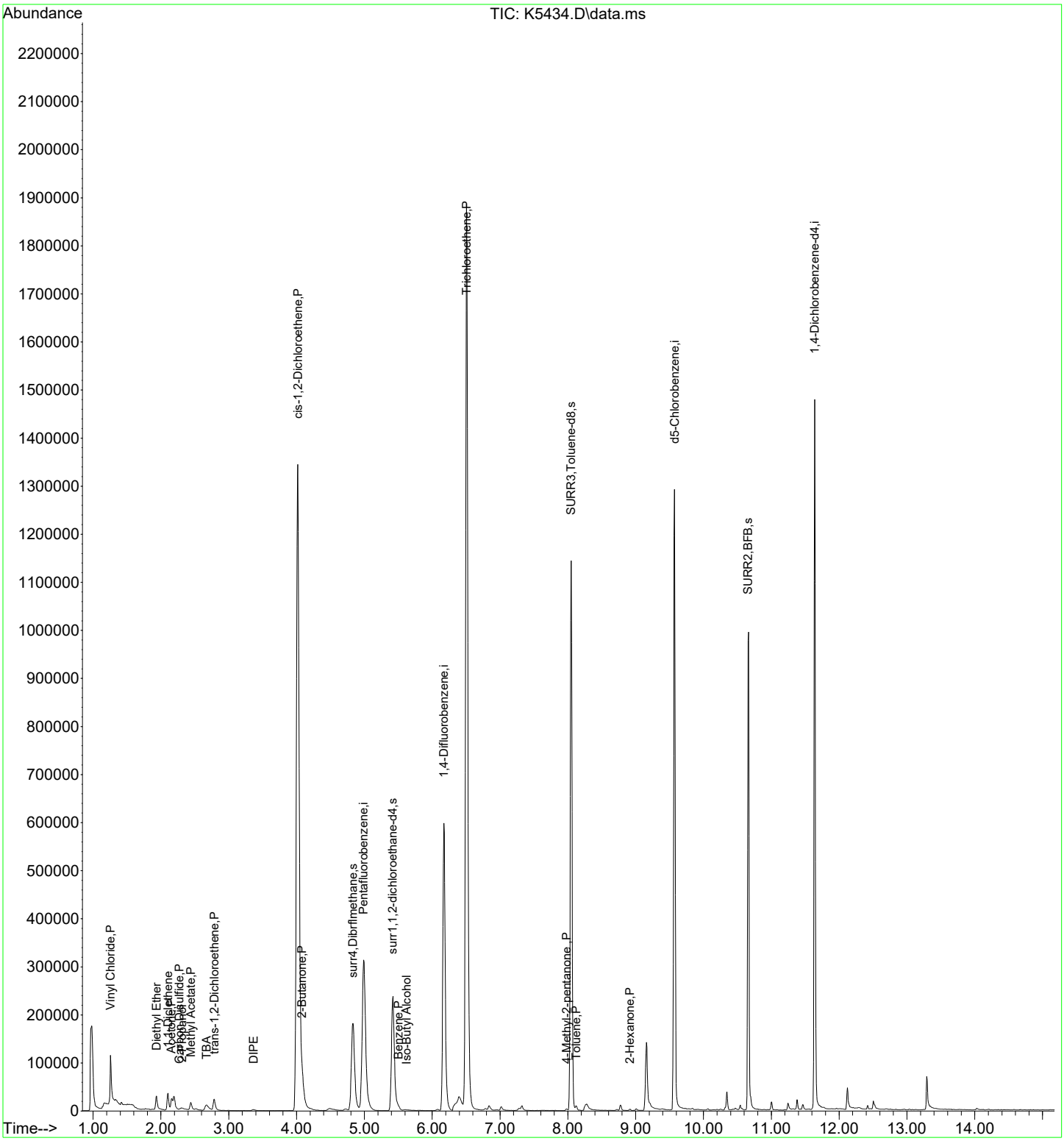
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)	
Internal Standards								
1) Pentafluorobenzene	4.989	168	366823	50.00	ug/L		0.00	
42) 1,4-Difluorobenzene	6.171	114	608620	50.00	ug/L		0.00	
70) d5-Chlorobenzene	9.573	117	548907	50.00	ug/L		0.00	
90) 1,4-Dichlorobenzene-d4	11.640	152	258467	50.00	ug/L	#	0.00	
System Monitoring Compounds								
44) surr4,Dibrflmethane	4.830	113	194927	51.34	ug/L		0.00	
Spiked Amount 50.000	Range 80 - 116		Recovery = 102.68%					
47) surr1,1,2-dichloroetha...	5.416	65	265519	51.17	ug/L		0.00	
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.34%					
64) SURR3,Toluene-d8	8.049	98	727712	52.23	ug/L		0.00	
Spiked Amount 50.000	Range 87 - 121		Recovery = 104.46%					
69) SURR2,BFB	10.658	95	277095	50.59	ug/L		0.00	
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.18%					
Target Compounds							Qvalue	
5) Vinyl Chloride	1.258	62	105309	20.614	ug/L		87	
10) Diethyl Ether	1.934	59	16875	4.246	ug/L		90	
14) 1,1-Diclethene	2.105	96	12833	4.127	ug/L		98	
16) Acetone	2.154	43	37944	12.923	ug/L		98	
17) 2-Propanol	2.312	45	17192m	29.691	ug/L			
19) Carbon Disulfide	2.270	76	6760m	0.883	ug/L			
21) Methyl Acetate	2.440	43	22139	4.321	ug/L		94	
22) Methylene Chloride	2.520	84	1241	Below Cal		#	86	
23) TBA	2.672	59	29797	27.763	ug/L		99	
26) trans-1,2-Dichloroethene	2.788	96	8847	2.594	ug/L		90	
29) DIPE	3.367	45	3434m	0.274	ug/L			
33) cis-1,2-Dichloroethene	4.019	96	835199	210.484	ug/L		89	E-Over Calibration
34) 2-Butanone	4.080	43	61737	17.622	ug/L		98	
48) Benzene	5.501	78	7713	0.593	ug/L	#	67	
50) Iso-Butyl Alcohol	5.623	43	5346m	16.885	ug/L			
53) Trichloroethene	6.507	130	774649	200.701	ug/L		98	E-Over Calibration
63) 4-Methyl-2-pentanone	7.982	43	2508	0.406	ug/L		87	
65) Toluene	8.122	91	3037	0.206	ug/L		95	
72) 2-Hexanone	8.915	43	1843	0.381	ug/L		98	

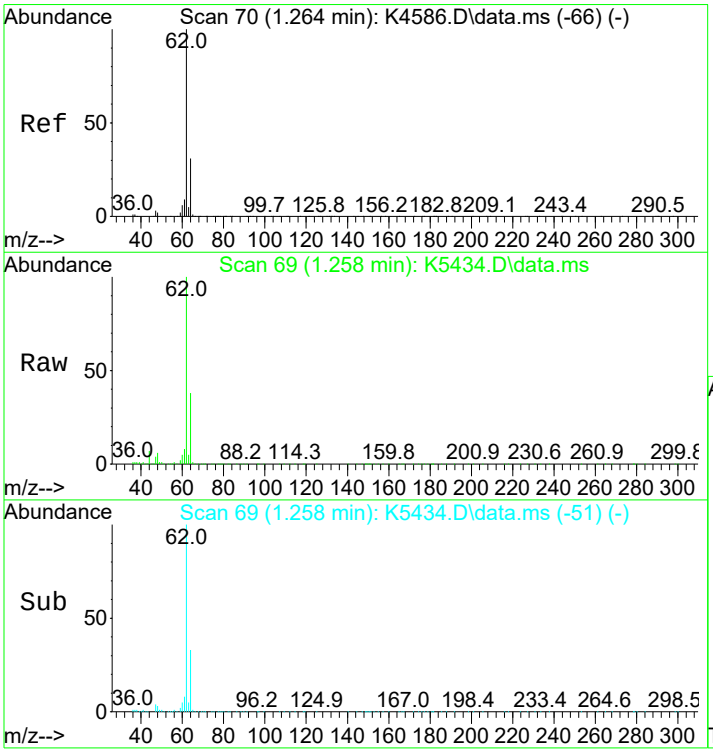
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5434.D
Acq On : 31 Aug 2024 04:22 pm
Operator : F.NAEGLER
Sample : R2408139-012|2.0
Misc : CEC 26473 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 01 11:43:29 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

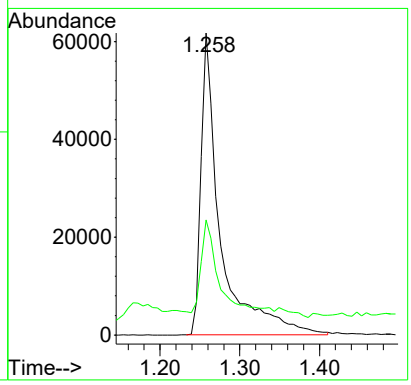


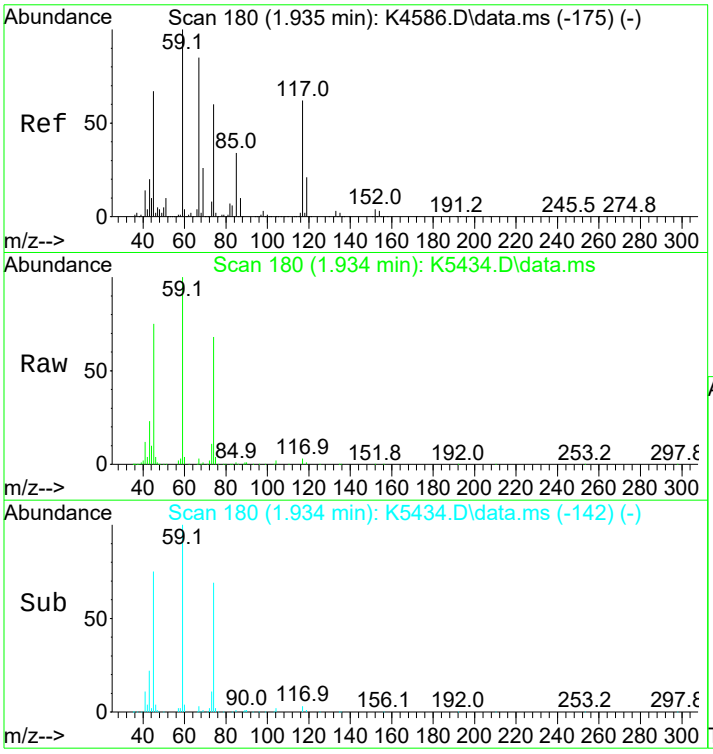


#5
Vinyl Chloride
Concen: 20.61 ug/L
RT: 1.258 min Scan# 69
Delta R.T. -0.006 min
Lab File: K5434.D
Acq: 31 Aug 2024 04:22 pm

Tgt Ion: 62 Resp: 105309

Ion	Ratio	Lower	Upper
62	100		
64	38.1	10.9	50.9

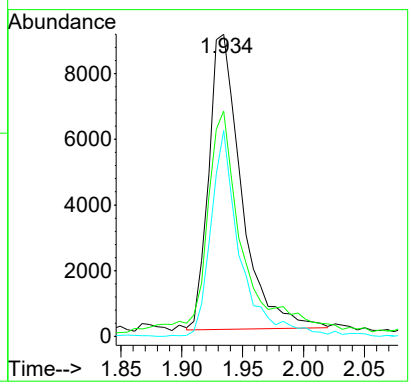


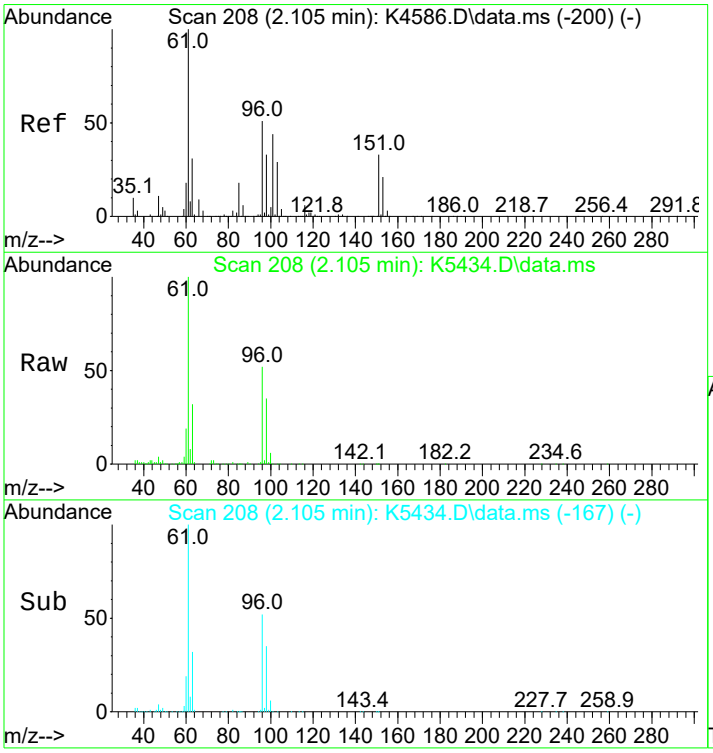


#10
Diethyl Ether
Concen: 4.25 ug/L
RT: 1.934 min Scan# 180
Delta R.T. -0.000 min
Lab File: K5434.D
Acq: 31 Aug 2024 04:22 pm

Tgt Ion: 59 Resp: 16875

Ion	Ratio	Lower	Upper
59	100		
45	74.6	47.3	87.3
74	68.1	39.8	79.8

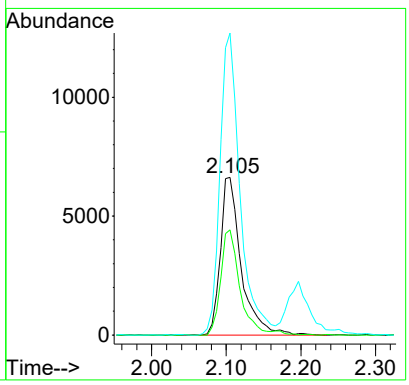


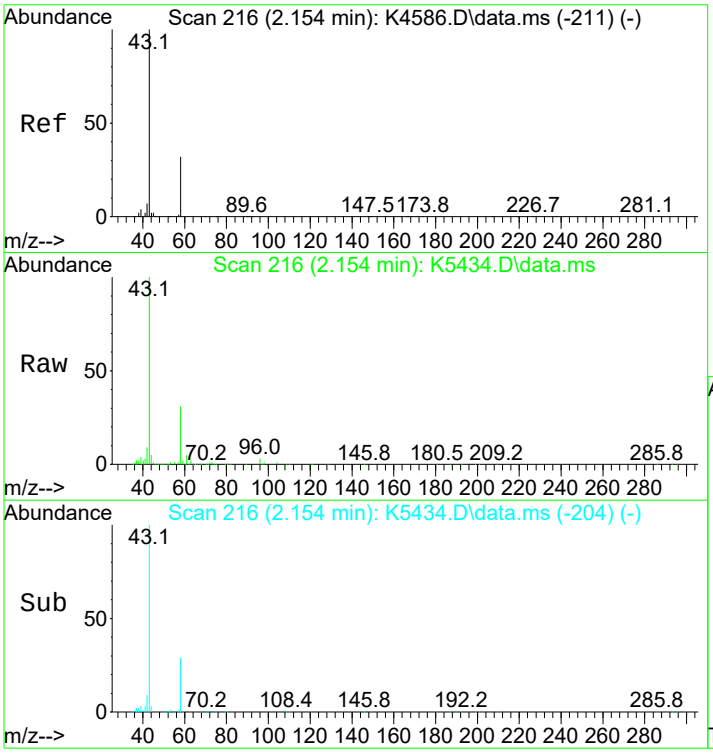


#14
1,1-Diclethene
Concen: 4.13 ug/L
RT: 2.105 min Scan# 208
Delta R.T. -0.000 min
Lab File: K5434.D
Acq: 31 Aug 2024 04:22 pm

Tgt Ion: 96 Resp: 12833

Ion	Ratio	Lower	Upper
96	100		
98	66.7	44.9	84.9
61	191.6	175.2	215.2

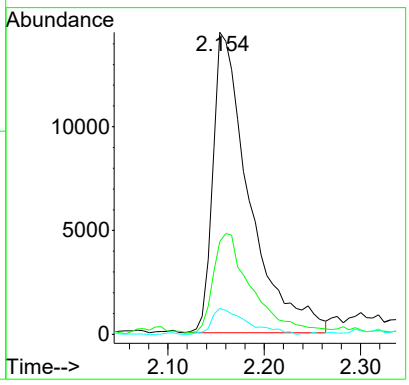


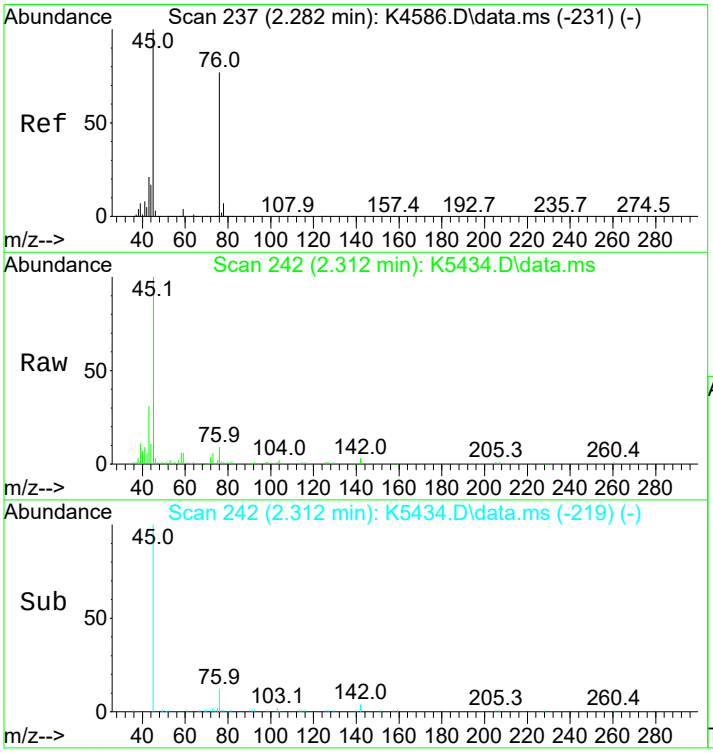


#16
Acetone
Concen: 12.92 ug/L
RT: 2.154 min Scan# 216
Delta R.T. -0.000 min
Lab File: K5434.D
Acq: 31 Aug 2024 04:22 pm

Tgt Ion: 43 Resp: 37944

Ion	Ratio	Lower	Upper
43	100		
58	30.7	11.5	51.5
42	8.5	0.0	27.3

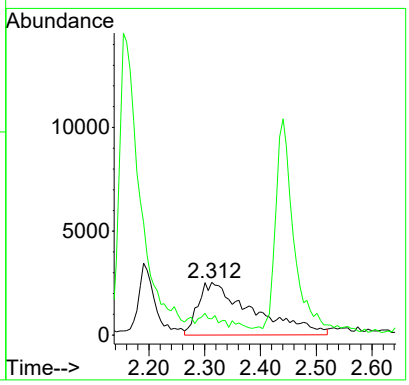


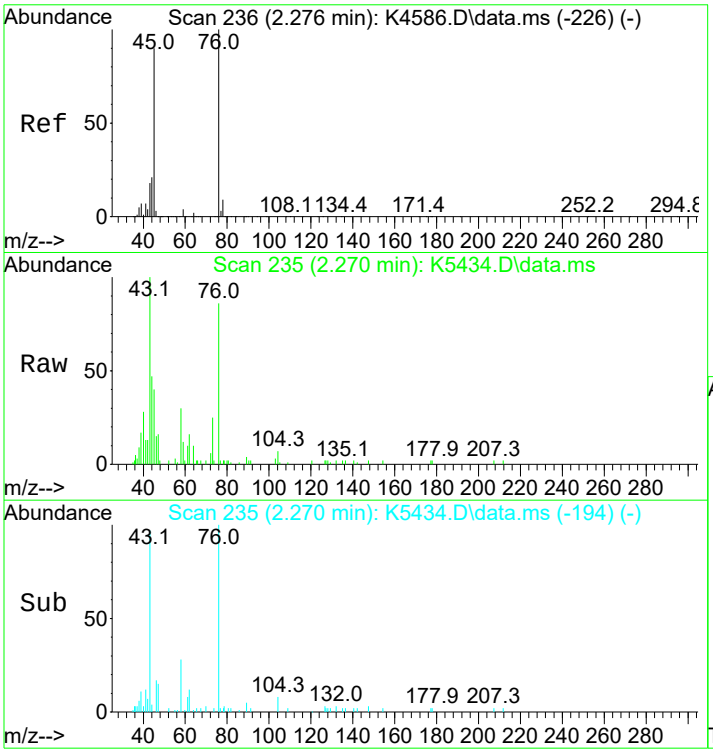


#17
2-Propanol
Concen: 29.69 ug/L m
RT: 2.312 min Scan# 242
Delta R.T. 0.030 min
Lab File: K5434.D
Acq: 31 Aug 2024 04:22 pm

Tgt Ion: 45 Resp: 17192

Ion	Ratio	Lower	Upper
45	100		
43	31.0	1.4	41.4

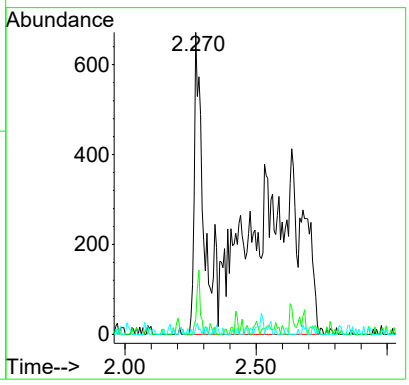


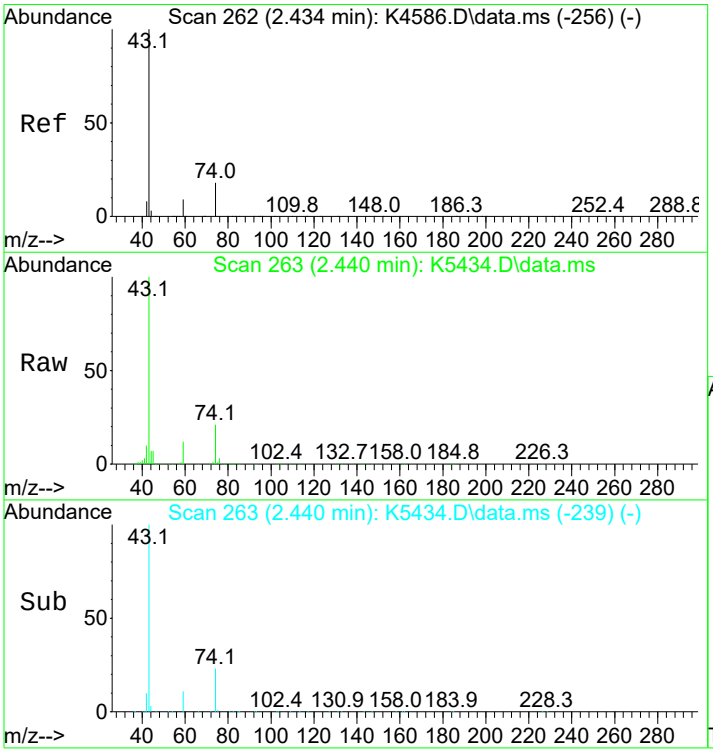


#19
Carbon Disulfide
Concen: 0.88 ug/L m
RT: 2.270 min Scan# 235
Delta R.T. -0.006 min
Lab File: K5434.D
Acq: 31 Aug 2024 04:22 pm

Tgt Ion: 76 Resp: 6760

Ion	Ratio	Lower	Upper
76	100		
78	2.8	0.0	29.2
77	2.2	0.0	22.7

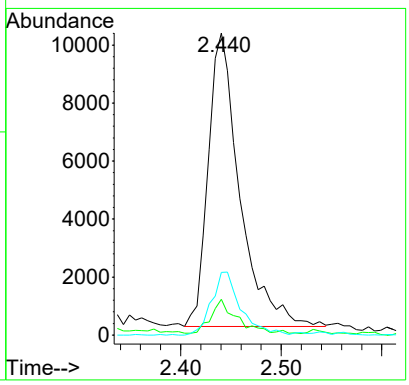


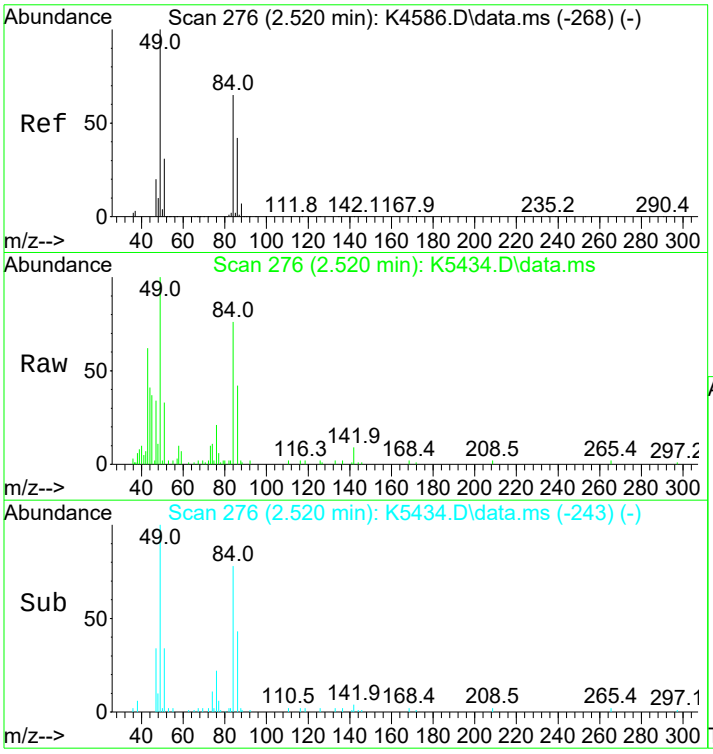


#21
Methyl Acetate
Concen: 4.32 ug/L
RT: 2.440 min Scan# 263
Delta R.T. 0.006 min
Lab File: K5434.D
Acq: 31 Aug 2024 04:22 pm

Tgt Ion: 43 Resp: 22139

Ion	Ratio	Lower	Upper
43	100		
59	11.8	0.0	29.1
74	20.8	0.0	38.1

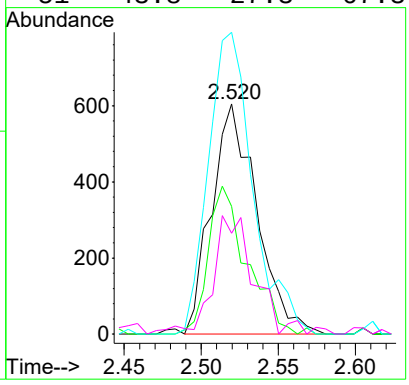


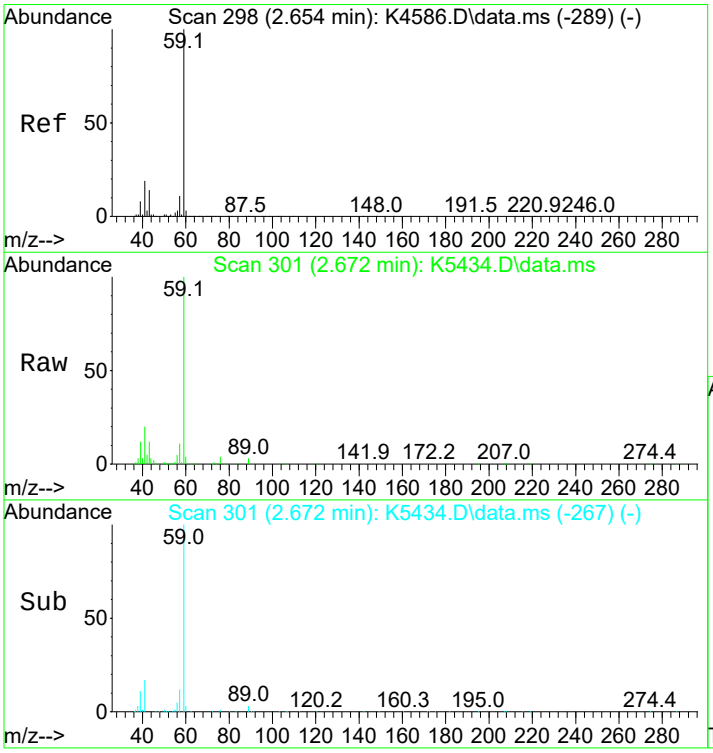


#22
Methylene Chloride
Concen: Below Cal
RT: 2.520 min Scan# 276
Delta R.T. 0.001 min
Lab File: K5434.D
Acq: 31 Aug 2024 04:22 pm

Tgt Ion: 84 Resp: 1241

Ion	Ratio	Lower	Upper
84	100		
86	55.5	44.7	84.7
49	131.1	134.9	174.9#
51	43.8	27.3	67.3

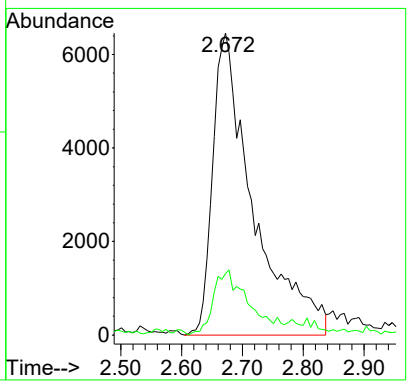


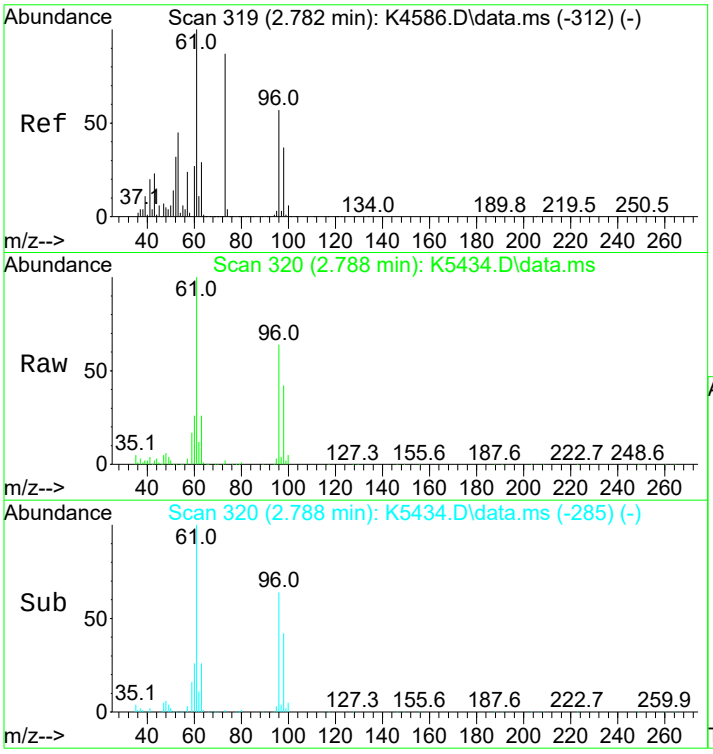


#23
TBA
Concen: 27.76 ug/L
RT: 2.672 min Scan# 301
Delta R.T. 0.018 min
Lab File: K5434.D
Acq: 31 Aug 2024 04:22 pm

Tgt Ion: 59 Resp: 29797

Ion	Ratio	Lower	Upper
59	100		
41	20.3	0.0	39.7

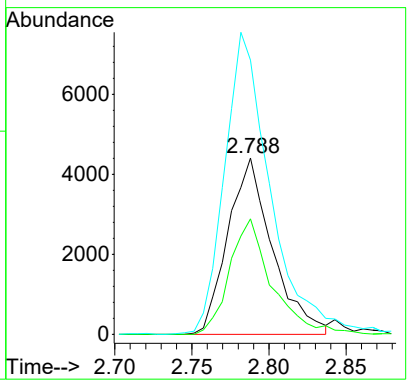


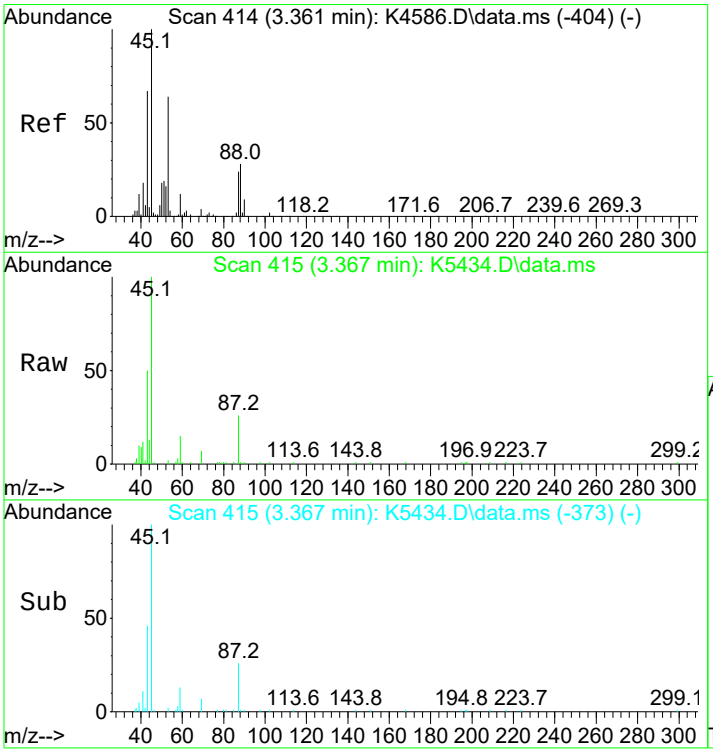


#26
trans-1,2-Dichloroethene
Concen: 2.59 ug/L
RT: 2.788 min Scan# 320
Delta R.T. 0.006 min
Lab File: K5434.D
Acq: 31 Aug 2024 04:22 pm

Tgt Ion: 96 Resp: 8847

Ion	Ratio	Lower	Upper
96	100		
98	65.4	45.1	85.1
61	155.4	154.0	194.0

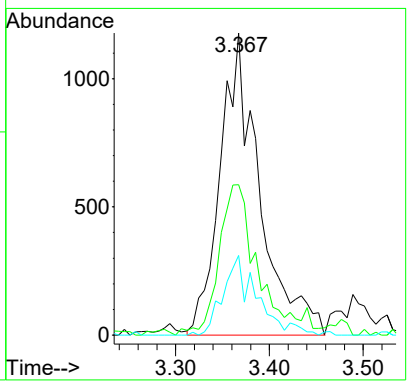


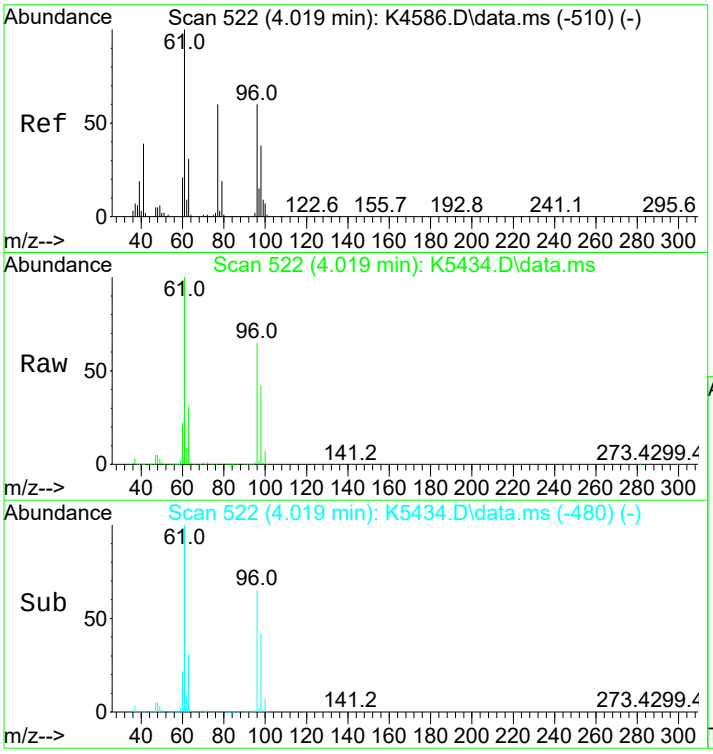


#29
DIPE
Concen: 0.27 ug/L m
RT: 3.367 min Scan# 415
Delta R.T. 0.006 min
Lab File: K5434.D
Acq: 31 Aug 2024 04:22 pm

Tgt Ion: 45 Resp: 3434

Ion	Ratio	Lower	Upper
45	100		
43	49.8	49.7	89.7
87	26.4	4.5	44.5

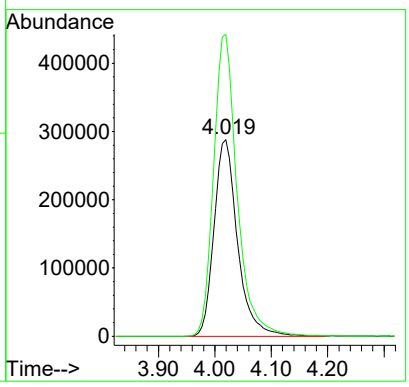


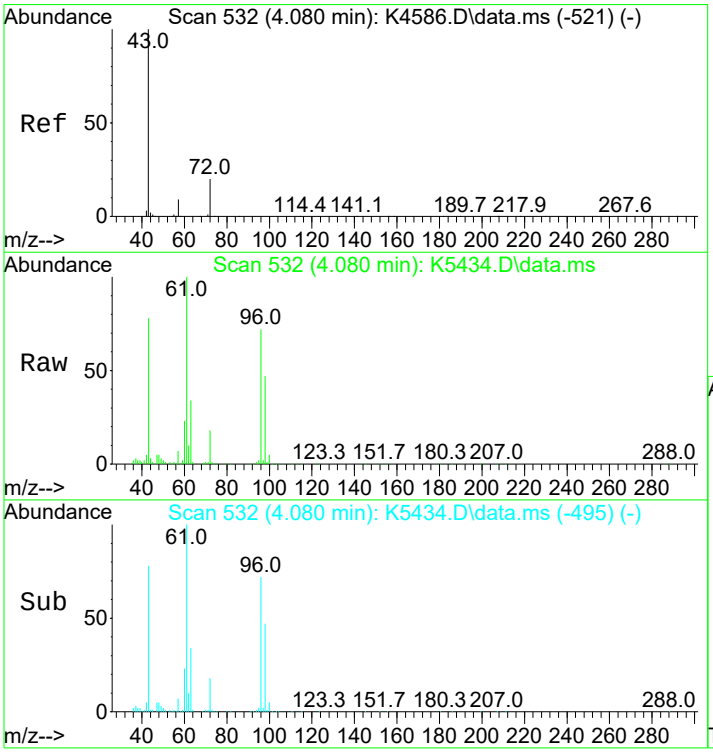


#33
cis-1,2-Dichloroethene
Concen: 210.48 ug/L
RT: 4.019 min Scan# 522
Delta R.T. -0.000 min
Lab File: K5434.D
Acq: 31 Aug 2024 04:22 pm

Tgt Ion: 96 Resp: 835199

Ion	Ratio	Lower	Upper
96	100		
61	153.4	147.9	187.9

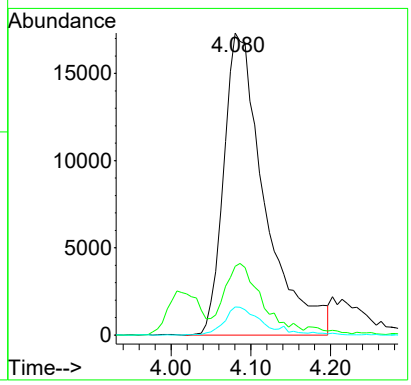


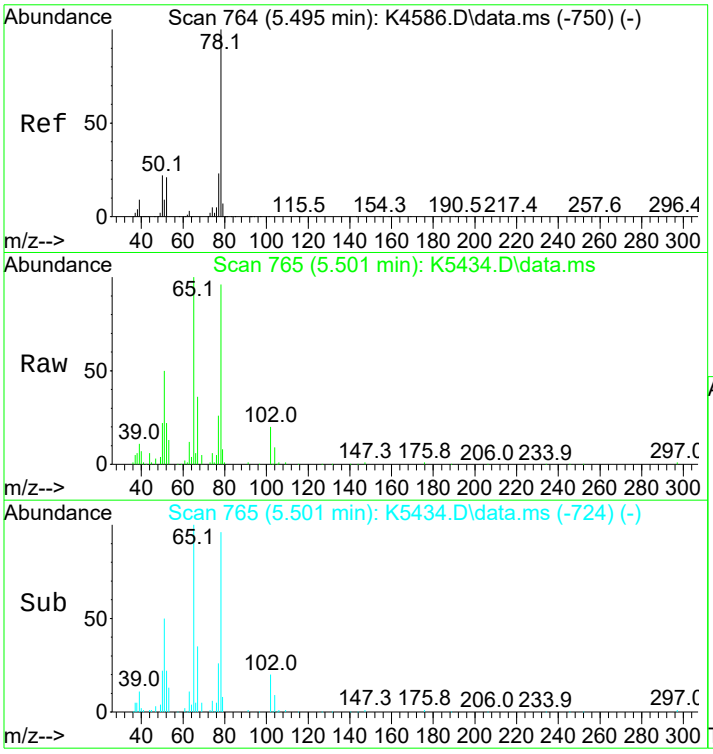


#34
2-Butanone
Concen: 17.62 ug/L
RT: 4.080 min Scan# 532
Delta R.T. -0.000 min
Lab File: K5434.D
Acq: 31 Aug 2024 04:22 pm

Tgt Ion: 43 Resp: 61737

Ion	Ratio	Lower	Upper
43	100		
72	22.7	1.2	41.2
57	9.3	0.0	29.2

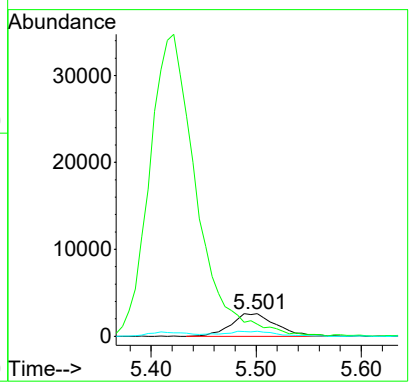


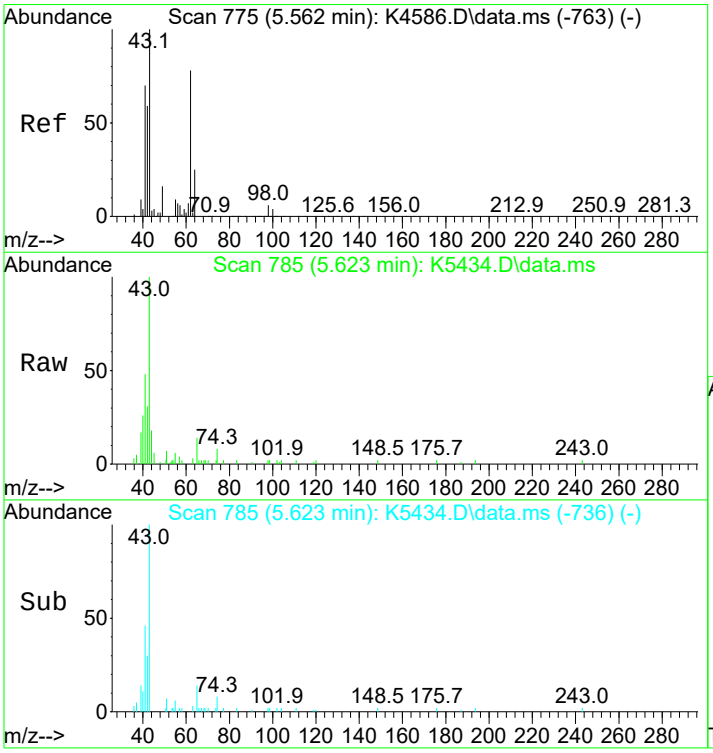


#48
Benzene
Concen: 0.59 ug/L
RT: 5.501 min Scan# 765
Delta R.T. 0.006 min
Lab File: K5434.D
Acq: 31 Aug 2024 04:22 pm

Tgt Ion: 78 Resp: 7713

Ion	Ratio	Lower	Upper
78	100		
51	52.4	3.1	43.1#
52	22.5	1.2	41.2

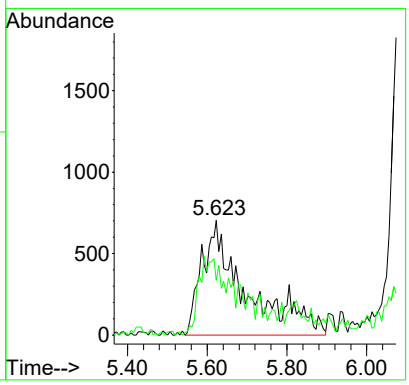


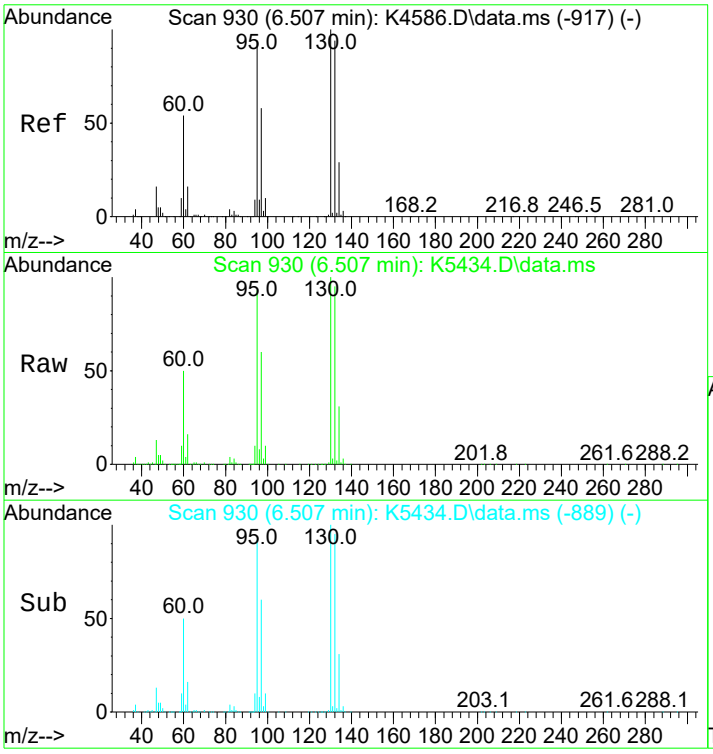


#50
Iso-Butyl Alcohol
Concen: 16.89 ug/L m
RT: 5.623 min Scan# 785
Delta R.T. 0.061 min
Lab File: K5434.D
Acq: 31 Aug 2024 04:22 pm

Tgt Ion: 43 Resp: 5346

Ion	Ratio	Lower	Upper
43	100		
41	47.6	50.1	90.1#

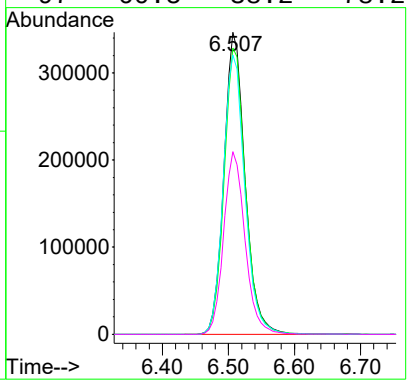


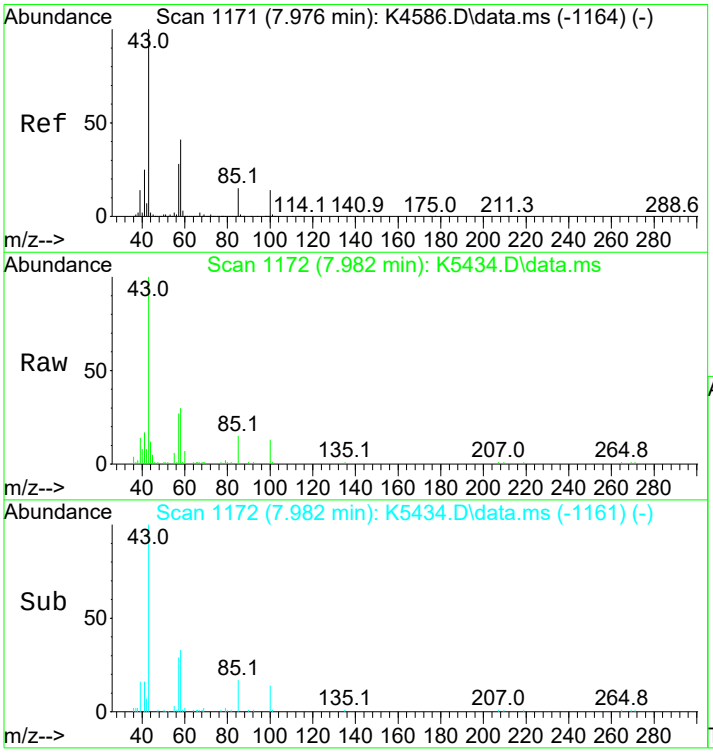


#53
Trichloroethene
Concen: 200.70 ug/L
RT: 6.507 min Scan# 930
Delta R.T. -0.000 min
Lab File: K5434.D
Acq: 31 Aug 2024 04:22 pm

Tgt Ion:130 Resp: 774649

Ion	Ratio	Lower	Upper
130	100		
132	94.8	74.0	114.0
95	92.5	74.1	114.1
97	60.5	38.2	78.2

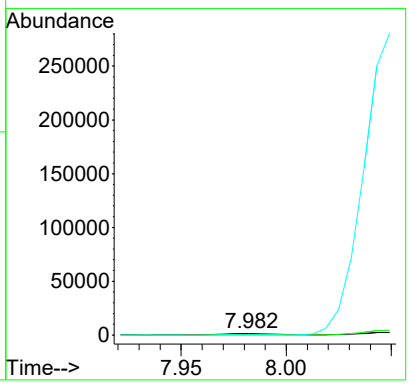


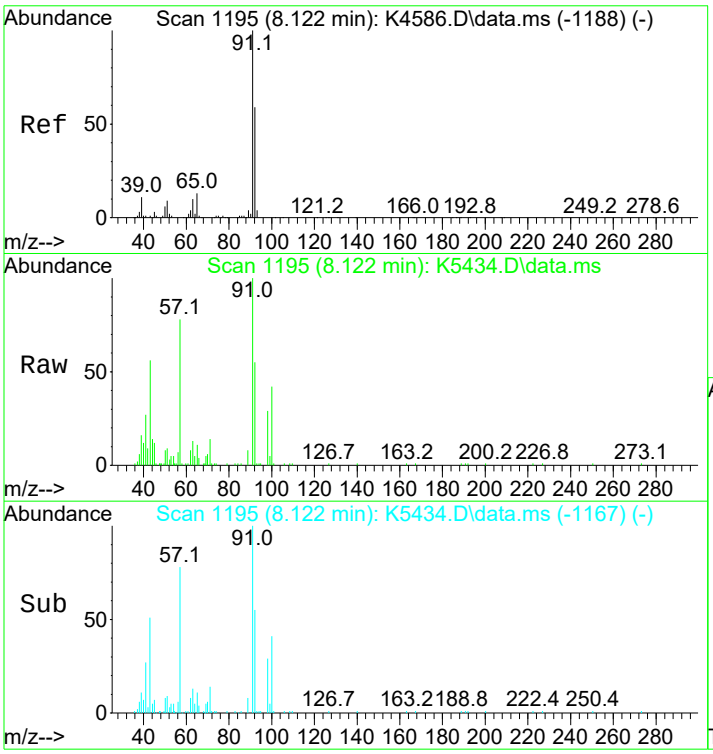


#63
4-Methyl-2-pentanone
Concen: 0.41 ug/L
RT: 7.982 min Scan# 1172
Delta R.T. 0.006 min
Lab File: K5434.D
Acq: 31 Aug 2024 04:22 pm

Tgt Ion: 43 Resp: 2508

Ion	Ratio	Lower	Upper
43	100		
58	30.4	21.3	61.3
100	13.2	0.0	33.7

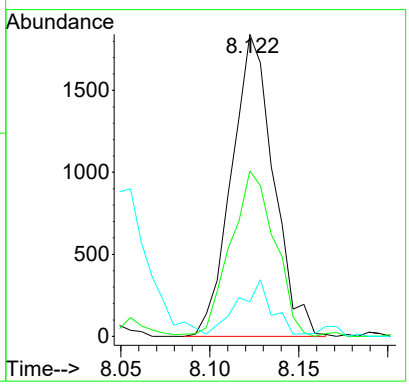


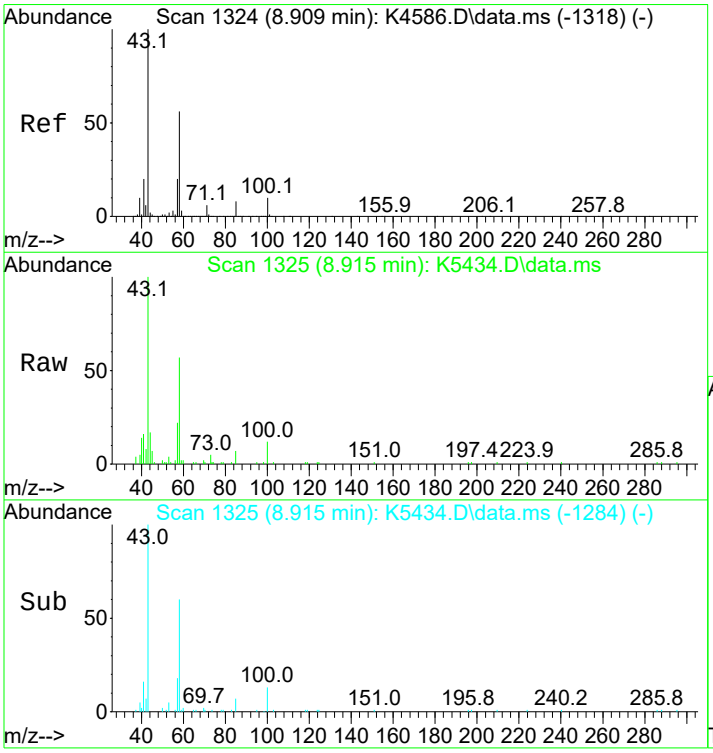


#65
Toluene
Concen: 0.21 ug/L
RT: 8.122 min Scan# 1195
Delta R.T. -0.000 min
Lab File: K5434.D
Acq: 31 Aug 2024 04:22 pm

Tgt Ion: 91 Resp: 3037

Ion	Ratio	Lower	Upper
91	100		
92	54.7	39.0	79.0
65	11.5	0.0	32.8

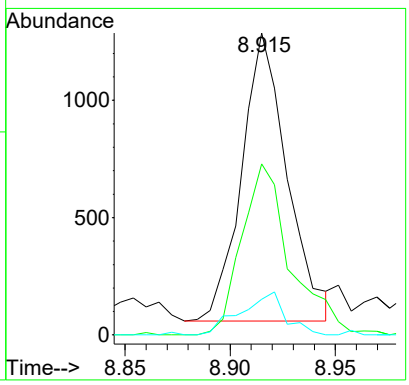




#72
2-Hexanone
Concen: 0.38 ug/L
RT: 8.915 min Scan# 1325
Delta R.T. 0.006 min
Lab File: K5434.D
Acq: 31 Aug 2024 04:22 pm

Tgt Ion: 43 Resp: 1843

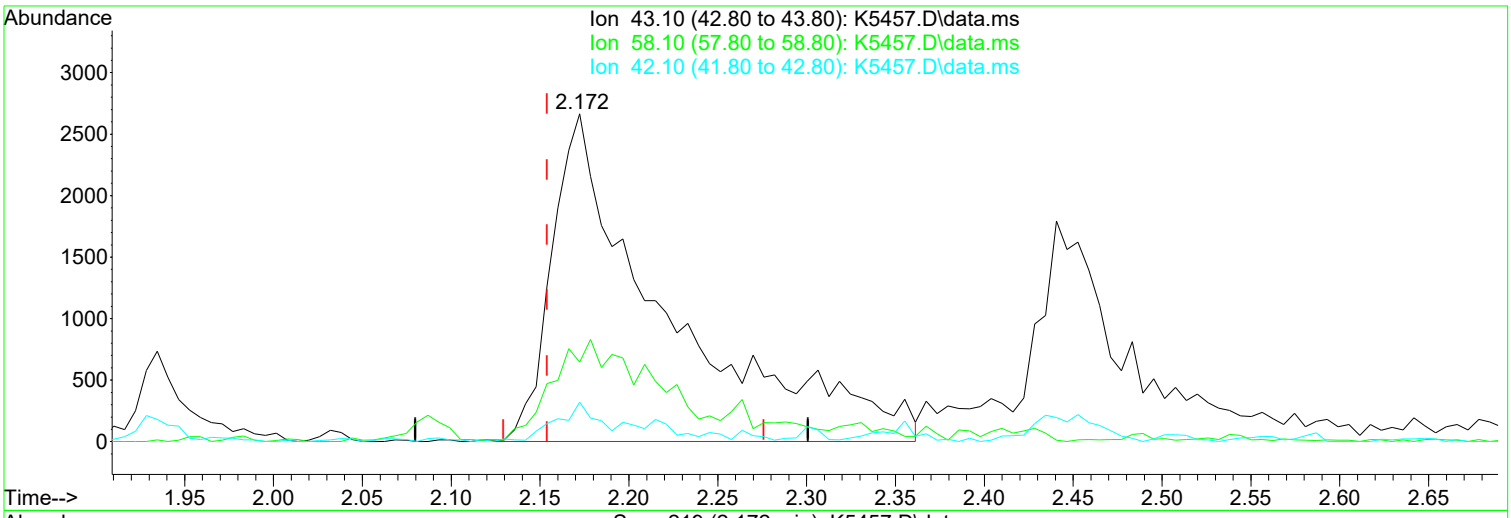
Ion	Ratio	Lower	Upper
43	100		
58	56.6	35.9	75.9
100	11.8	0.0	30.1

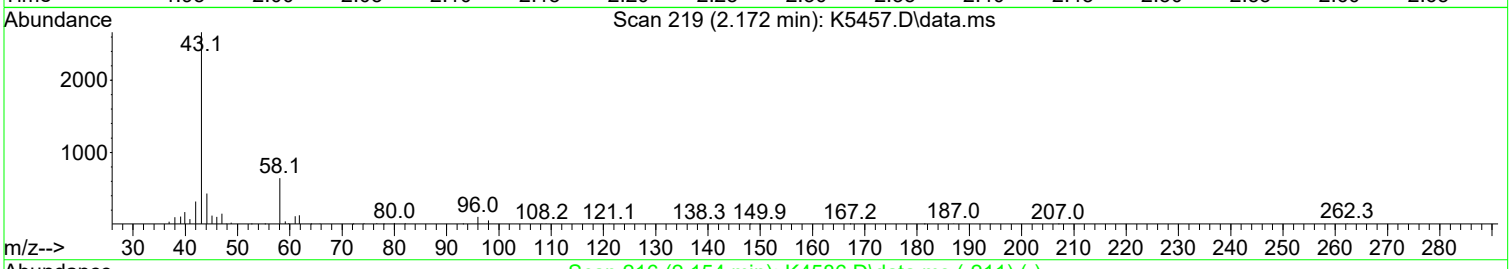


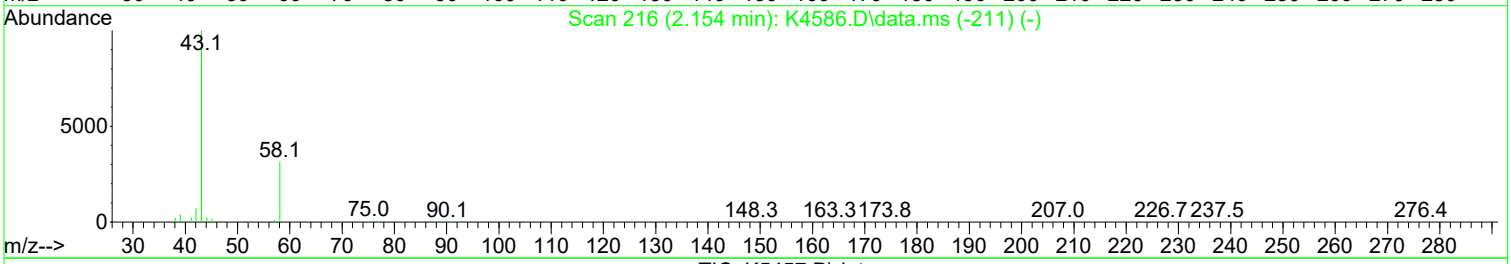
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\090124\
Data File : K5457.D
Acq On : 01 Sep 2024 02:51 pm
Operator : F.NAEGLER
Sample : R2408139-012|5.0
Misc : CEC 26473 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 01 15:08:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5457.D\data.ms

(16) Acetone (P)

2.172min (+ 0.018) 4.08 ug/L m

response 11827

Ion	Exp%	Act%
43.10	100.00	100.00
58.10	31.50	24.24
42.10	7.30	12.08
0.00	0.00	0.00

Manual Integration:

After

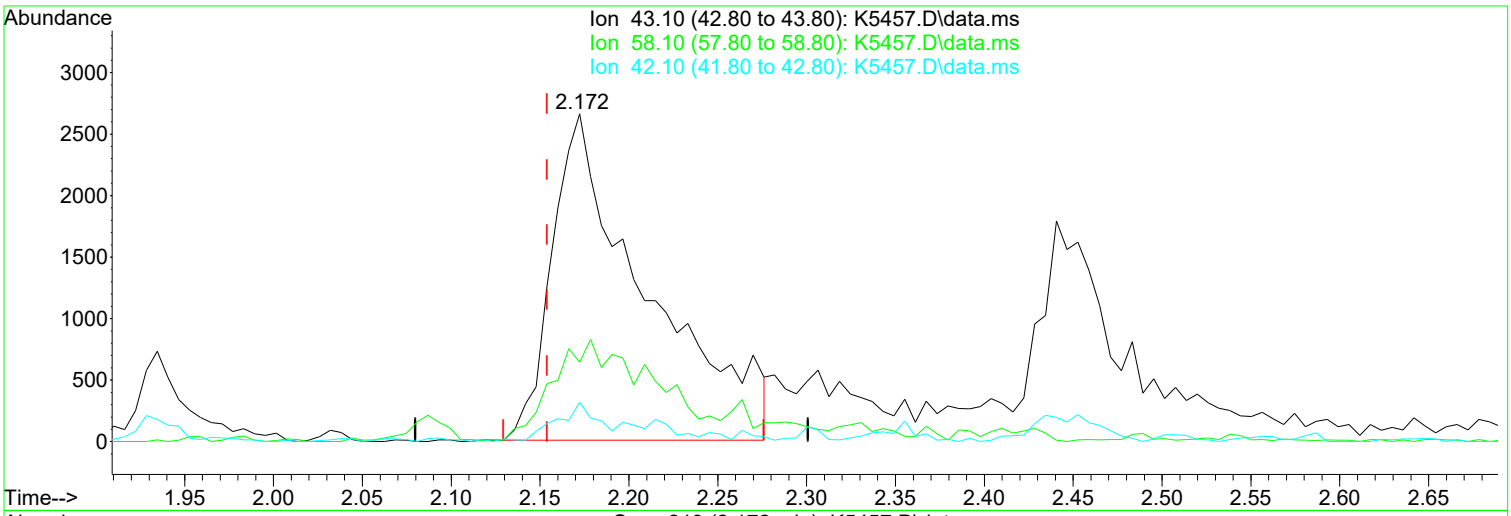
Poor integration.

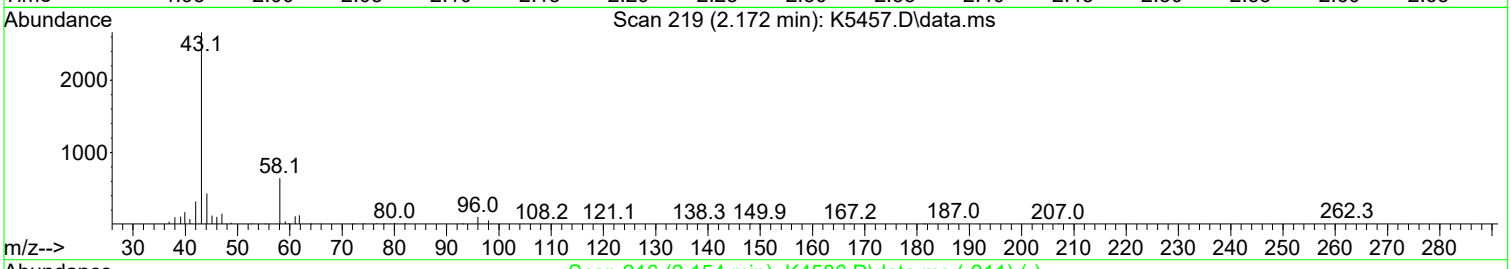
09/02/24

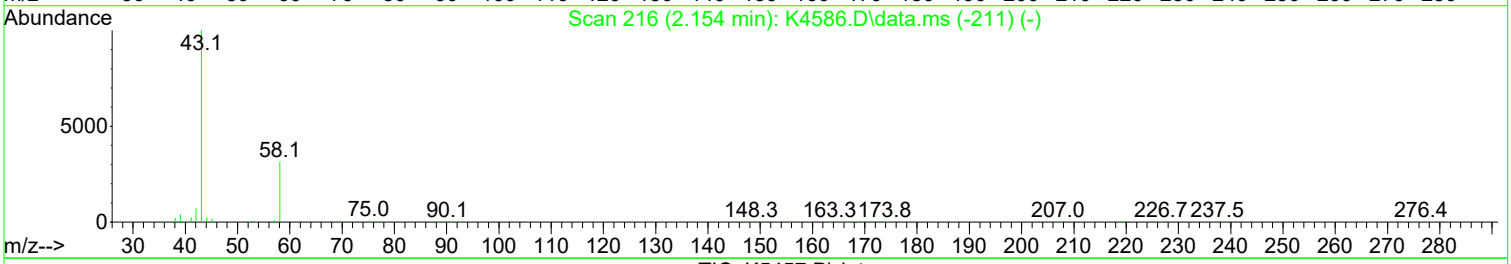
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\090124\
Data File : K5457.D
Acq On : 01 Sep 2024 02:51 pm
Operator : F.NAEGLER
Sample : R2408139-012|5.0
Misc : CEC 26473 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 01 15:08:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5457.D\data.ms

(16) Acetone (P)

2.172min (+ 0.018) 3.37 ug/L

response 9774

Ion	Exp%	Act%
43.10	100.00	100.00
58.10	31.50	24.24
42.10	7.30	12.08
0.00	0.00	0.00

Manual Integration:

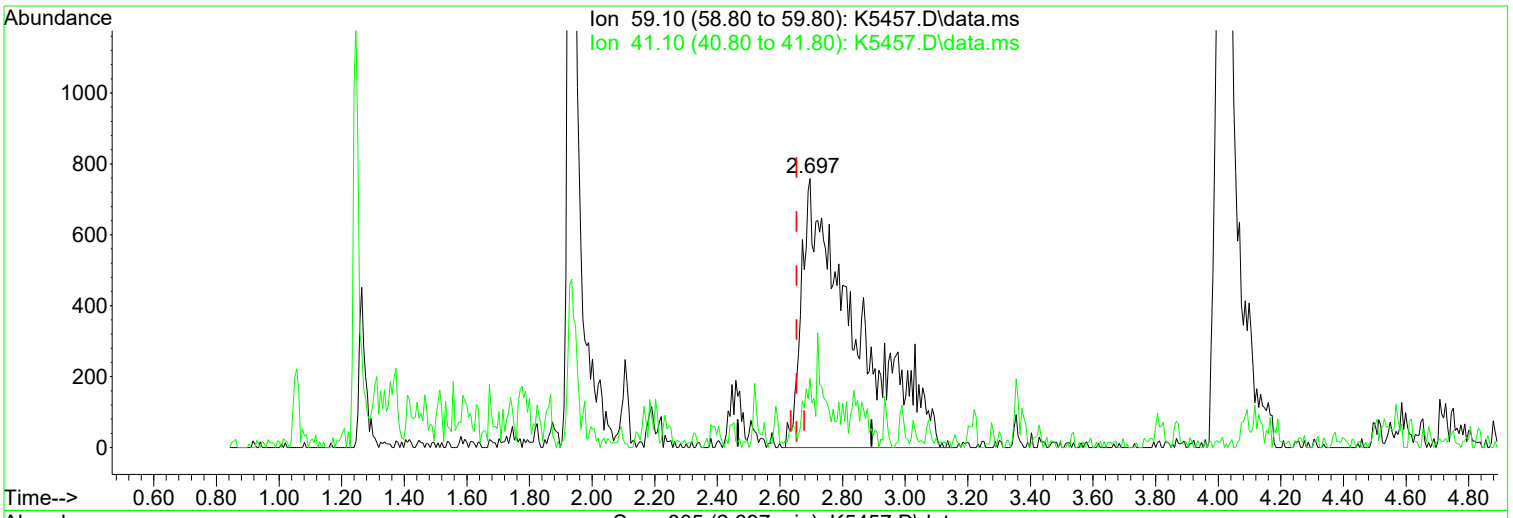
Before

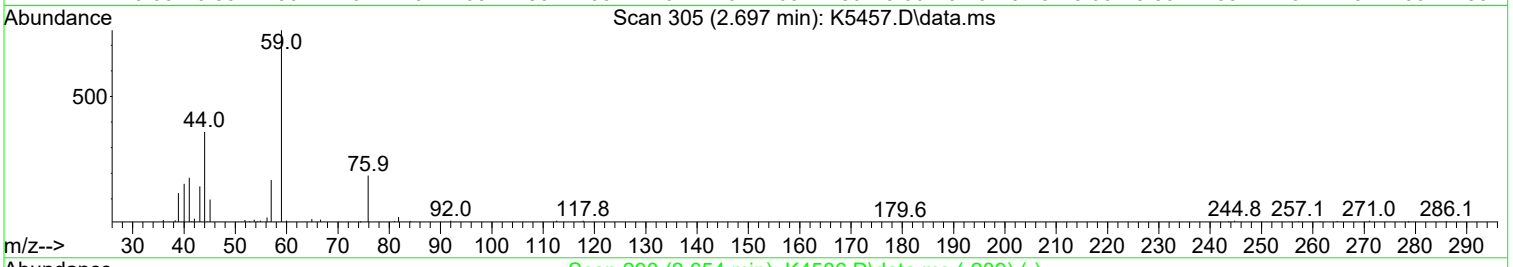
09/02/24

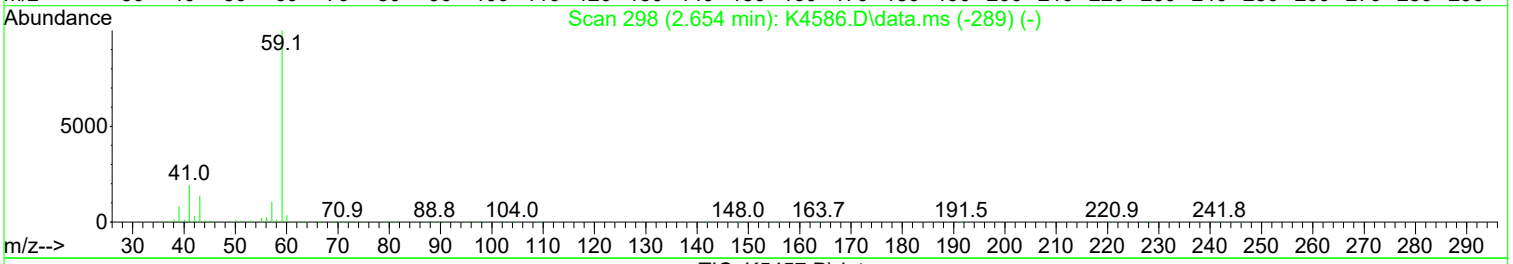
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\090124\
Data File : K5457.D
Acq On : 01 Sep 2024 02:51 pm
Operator : F.NAEGLER
Sample : R2408139-012|5.0
Misc : CEC 26473 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 01 15:08:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5457.D\data.ms

(23) TBA

2.697min (+ 0.043) 8.41 ug/L m

response 8916

Ion	Exp%	Act%
59.10	100.00	100.00
41.10	19.70	23.98
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

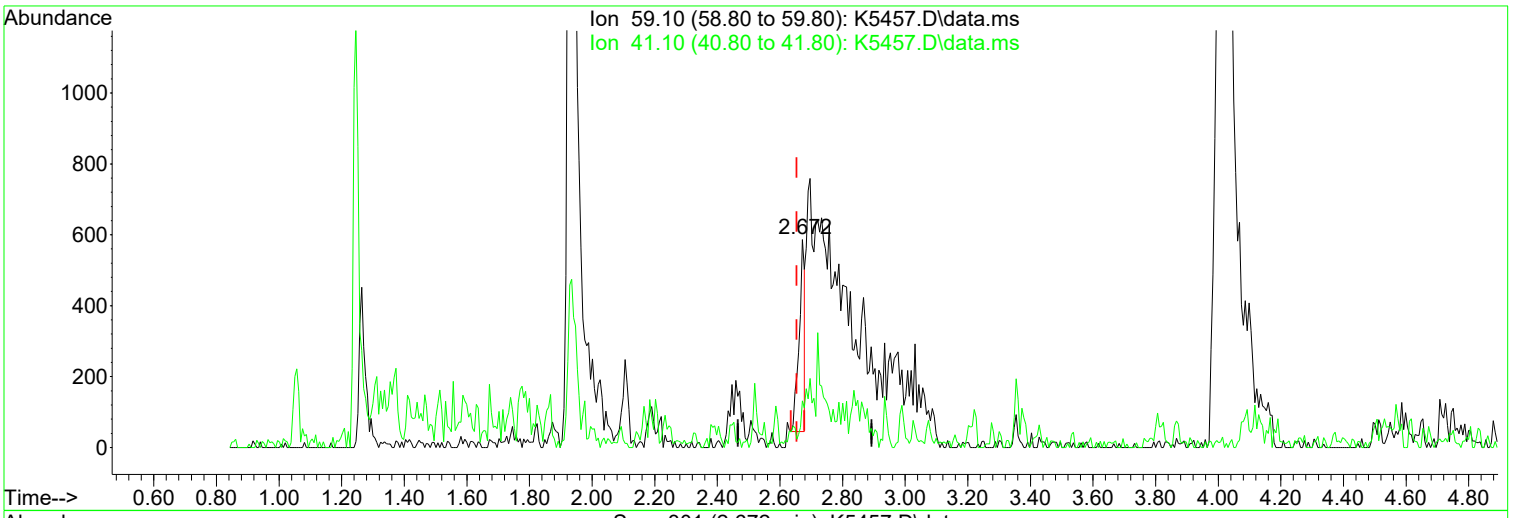
Poor integration.

09/02/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\090124\
Data File : K5457.D
Acq On : 01 Sep 2024 02:51 pm
Operator : F.NAEGLER
Sample : R2408139-012|5.0
Misc : CEC 26473 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 01 15:08:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration



TIC: K5457.D\data.ms

(23) TBA

2.672min (+ 0.018) 0.64 ug/L

response 674

Ion	Exp%	Act%
59.10	100.00	100.00
41.10	19.70	22.49
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

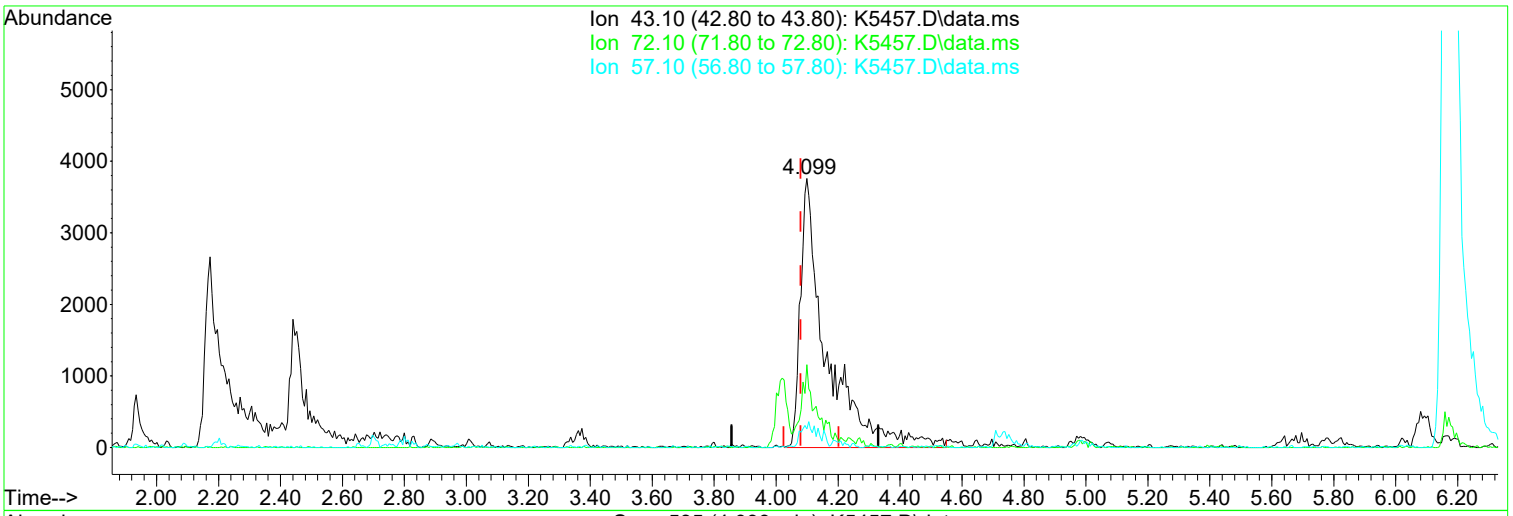
Before

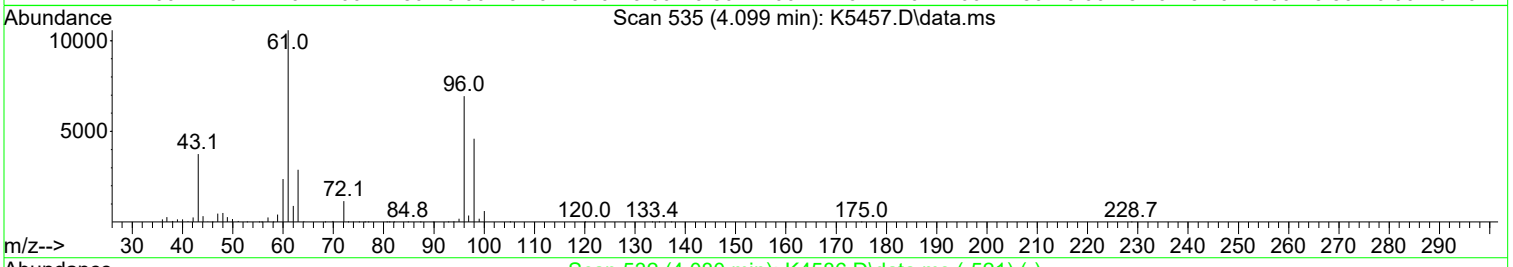
09/02/24

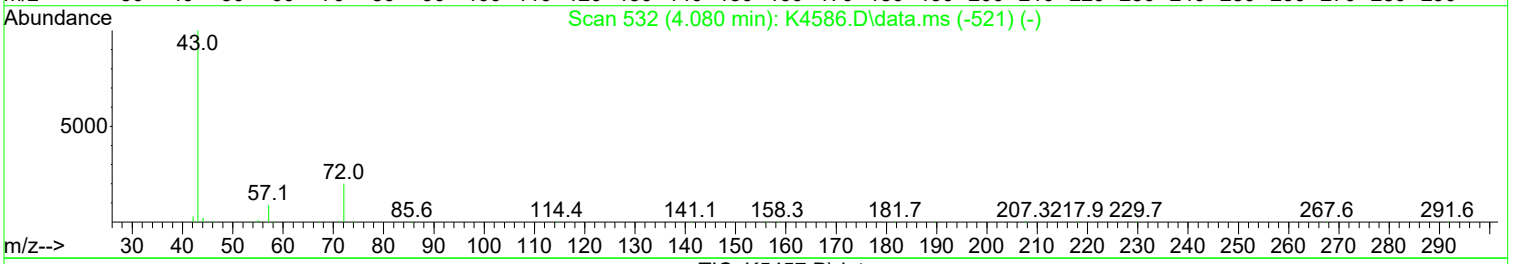
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\090124\
Data File : K5457.D
Acq On : 01 Sep 2024 02:51 pm
Operator : F.NAEGLER
Sample : R2408139-012|5.0
Misc : CEC 26473 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 01 15:08:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5457.D\data.ms

(34) 2-Butanone (P)

4.099min (+ 0.018) 6.41 ug/L m

response 22176

Ion	Exp%	Act%
43.10	100.00	100.00
72.10	21.20	30.76
57.10	9.20	6.87
0.00	0.00	0.00

Manual Integration:

After

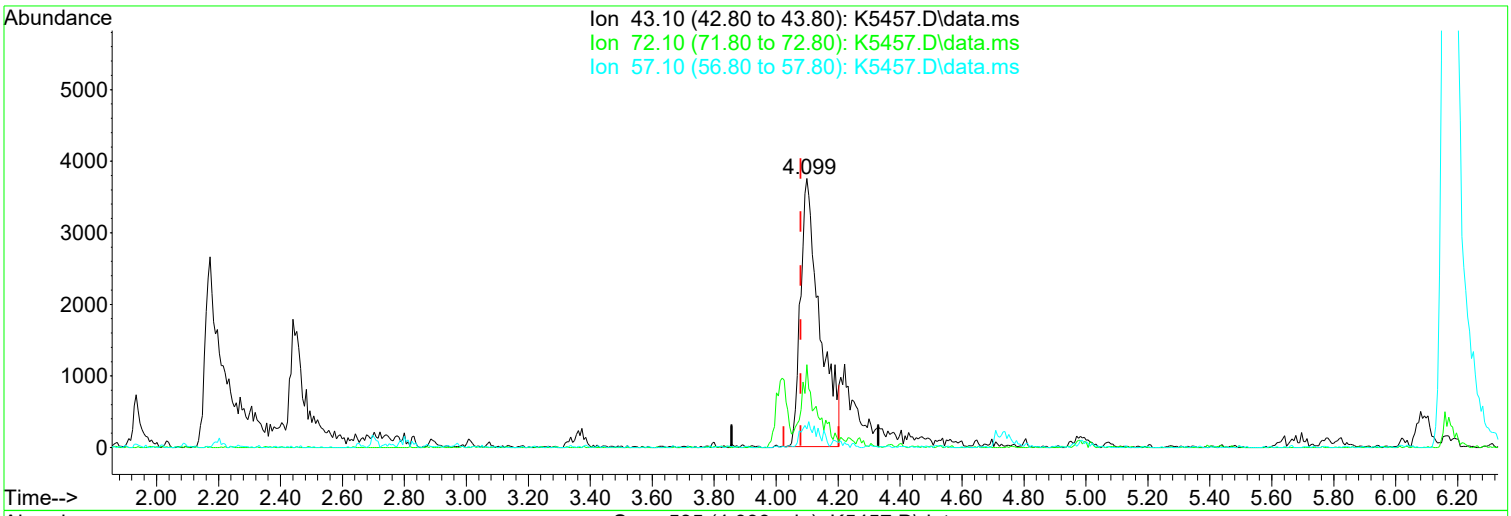
Poor integration.

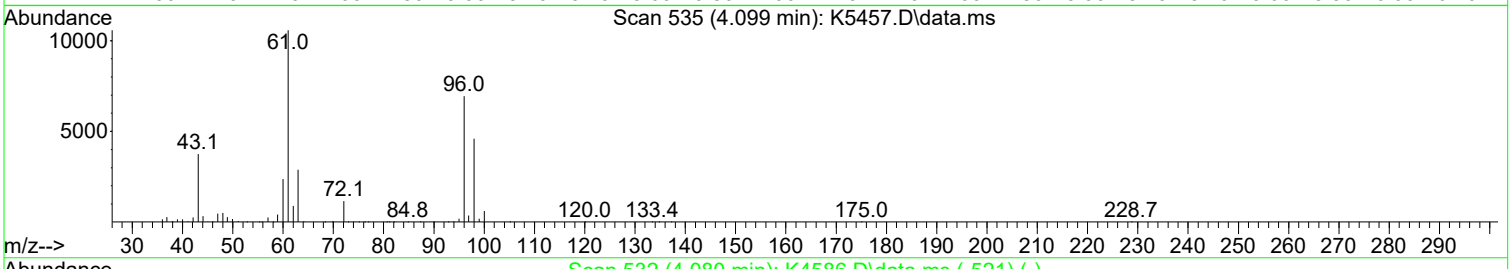
09/02/24

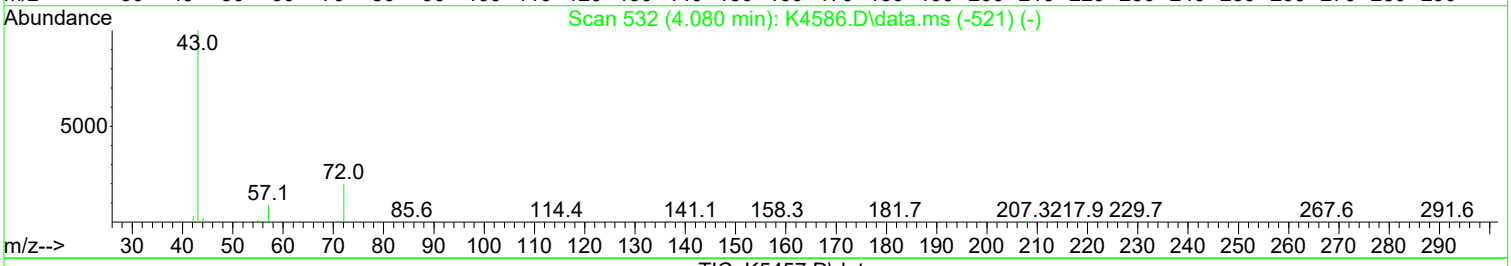
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\090124\
Data File : K5457.D
Acq On : 01 Sep 2024 02:51 pm
Operator : F.NAEGLER
Sample : R2408139-012|5.0
Misc : CEC 26473 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 01 15:08:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5457.D\data.ms

(34) 2-Butanone (P)

4.099min (+ 0.018) 4.67 ug/L

response 16176

Ion	Exp%	Act%
43.10	100.00	100.00
72.10	21.20	30.76
57.10	9.20	6.87
0.00	0.00	0.00

Manual Integration:

Before

09/02/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\090124\
Data File : K5457.D
Acq On : 01 Sep 2024 02:51 pm
Operator : F.NAEGLER
Sample : R2408139-012|5.0
Misc : CEC 26473 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 01 15:08:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m DL
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

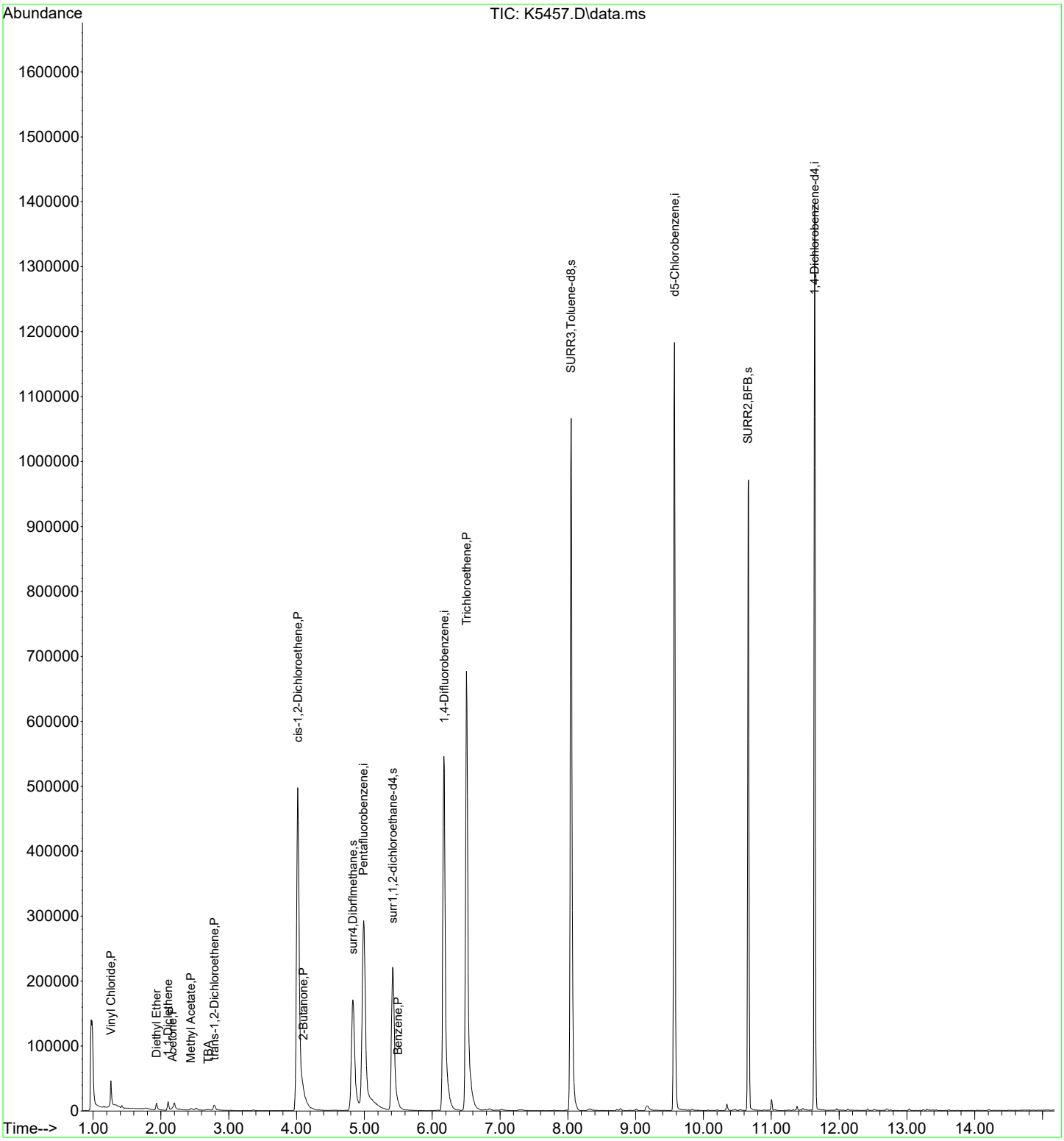
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	4.989	168	362324	50.00 ug/L	0.00
42) 1,4-Difluorobenzene	6.178	114	616400	50.00 ug/L	0.00
70) d5-Chlorobenzene	9.573	117	548935	50.00 ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	251403	50.00 ug/L	# 0.00
System Monitoring Compounds					
44) surr4,Dibrflmethane	4.830	113	195028	50.72 ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 101.44%		
47) surr1,1,2-dichloroetha...	5.422	65	266044	50.62 ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 101.24%		
64) SURR3,Toluene-d8	8.049	98	725143	51.39 ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.78%		
69) SURR2,BFB	10.659	95	273562	49.31 ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 98.62%		
Target Compounds					Qvalue
5) Vinyl Chloride	1.264	62	38932	7.716 ug/L	99
10) Diethyl Ether	1.934	59	6432	1.638 ug/L	84
14) 1,1-Diclethene	2.105	96	4522	1.472 ug/L	96
16) Acetone	2.172	43	11827m	4.078 ug/L	
21) Methyl Acetate	2.440	43	3201	0.633 ug/L	88
22) Methylene Chloride	2.526	84	1264	Below Cal #	69
23) TBA	2.697	59	8916m	8.411 ug/L	
26) trans-1,2-Dichloroethene	2.788	96	3248	0.964 ug/L #	73
33) cis-1,2-Dichloroethene	4.019	96	326920	83.412 ug/L	89
34) 2-Butanone	4.099	43	22176m	6.408 ug/L	
48) Benzene	5.495	78	3053	0.232 ug/L #	1
53) Trichloroethene	6.507	130	302842	77.472 ug/L	99

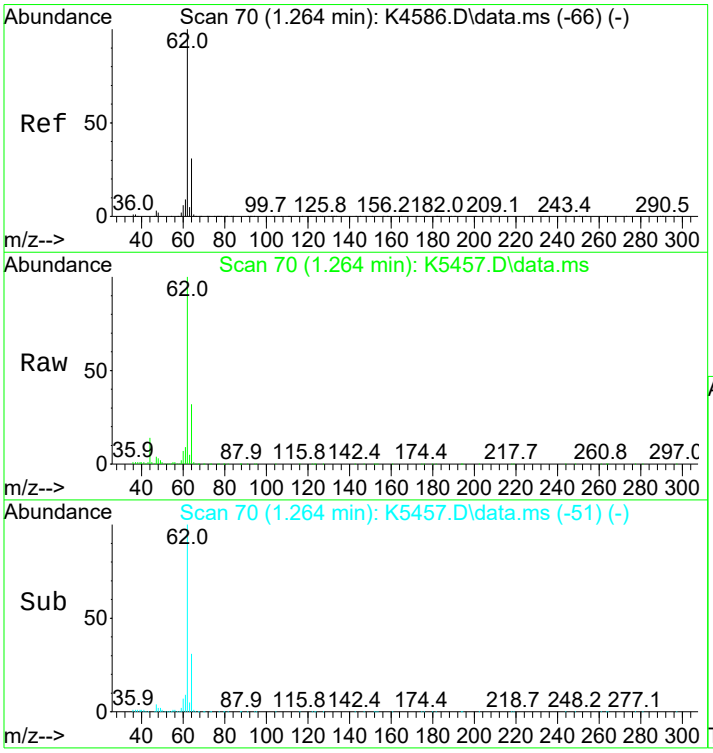
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\090124\
Data File : K5457.D
Acq On : 01 Sep 2024 02:51 pm
Operator : F.NAEGLER
Sample : R2408139-012|5.0
Misc : CEC 26473 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 01 15:08:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

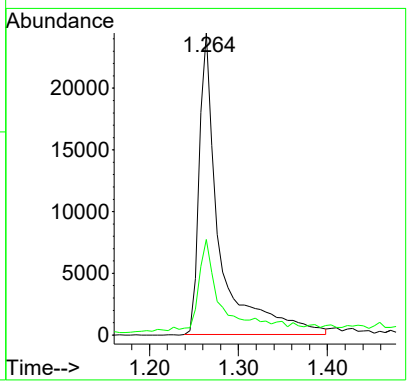


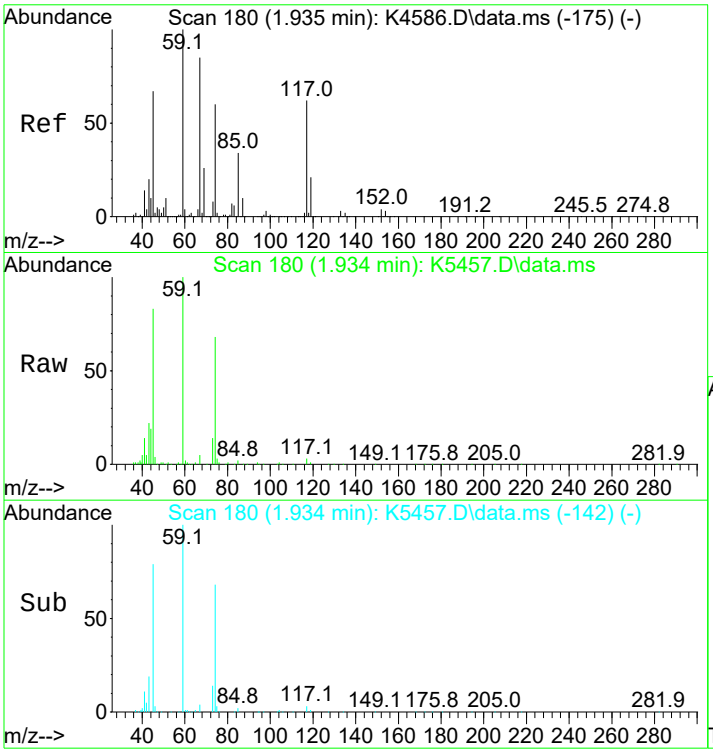


#5
Vinyl Chloride
Concen: 7.72 ug/L
RT: 1.264 min Scan# 70
Delta R.T. -0.000 min
Lab File: K5457.D
Acq: 01 Sep 2024 02:51 pm

Tgt Ion: 62 Resp: 38932

Ion	Ratio	Lower	Upper
62	100		
64	31.6	10.9	50.9

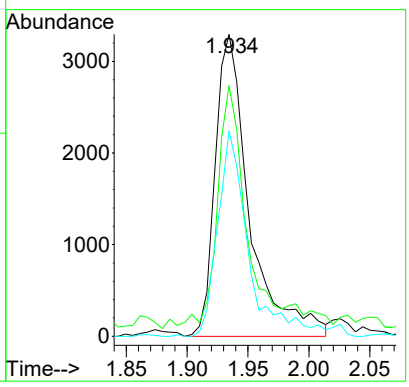


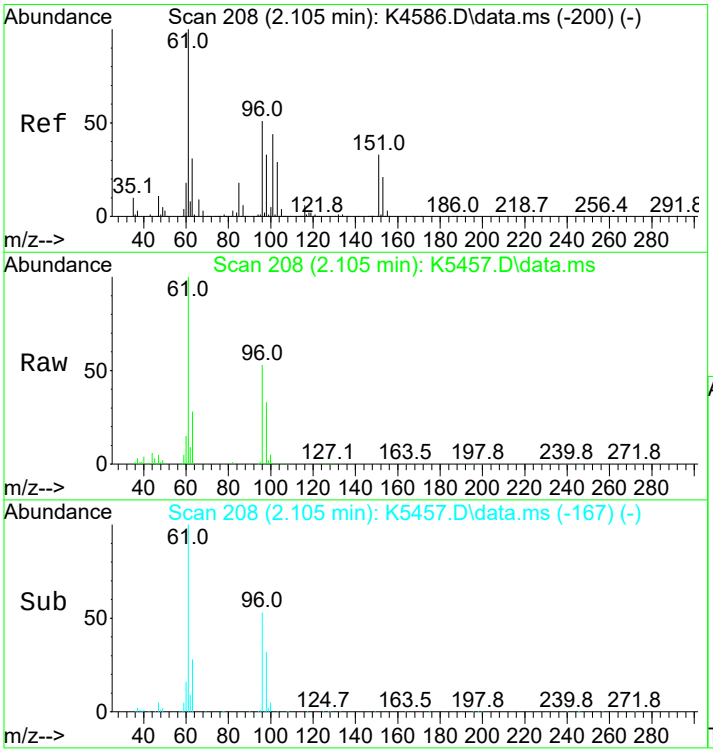


#10
Diethyl Ether
Concen: 1.64 ug/L
RT: 1.934 min Scan# 180
Delta R.T. -0.000 min
Lab File: K5457.D
Acq: 01 Sep 2024 02:51 pm

Tgt Ion: 59 Resp: 6432

Ion	Ratio	Lower	Upper
59	100		
45	83.0	47.3	87.3
74	68.0	39.8	79.8

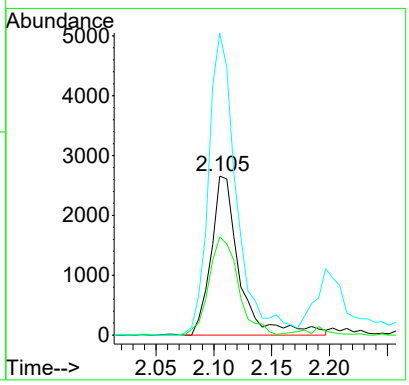


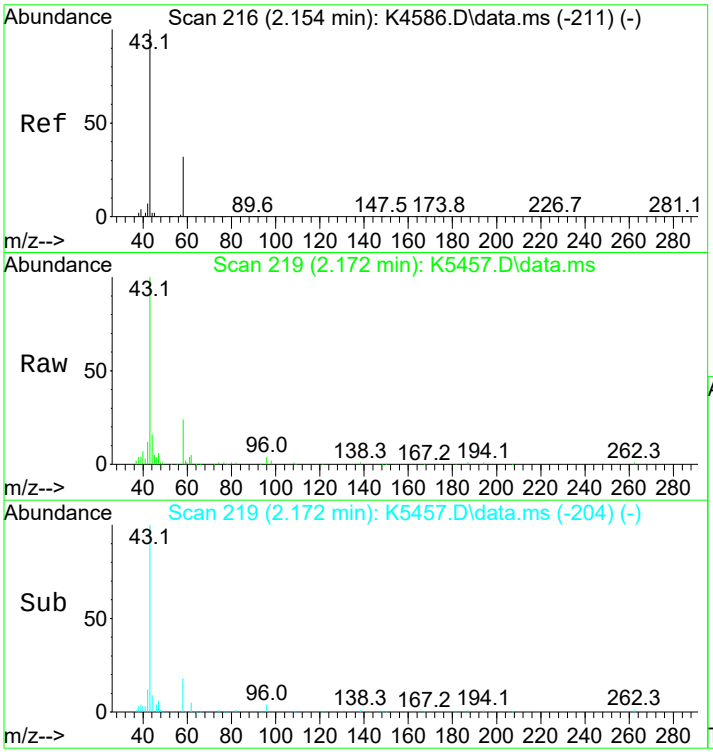


#14
1,1-Diclethene
Concen: 1.47 ug/L
RT: 2.105 min Scan# 208
Delta R.T. -0.000 min
Lab File: K5457.D
Acq: 01 Sep 2024 02:51 pm

Tgt Ion: 96 Resp: 4522

Ion	Ratio	Lower	Upper
96	100		
98	61.8	44.9	84.9
61	190.1	175.2	215.2

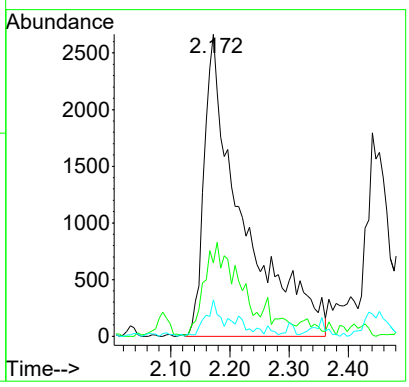


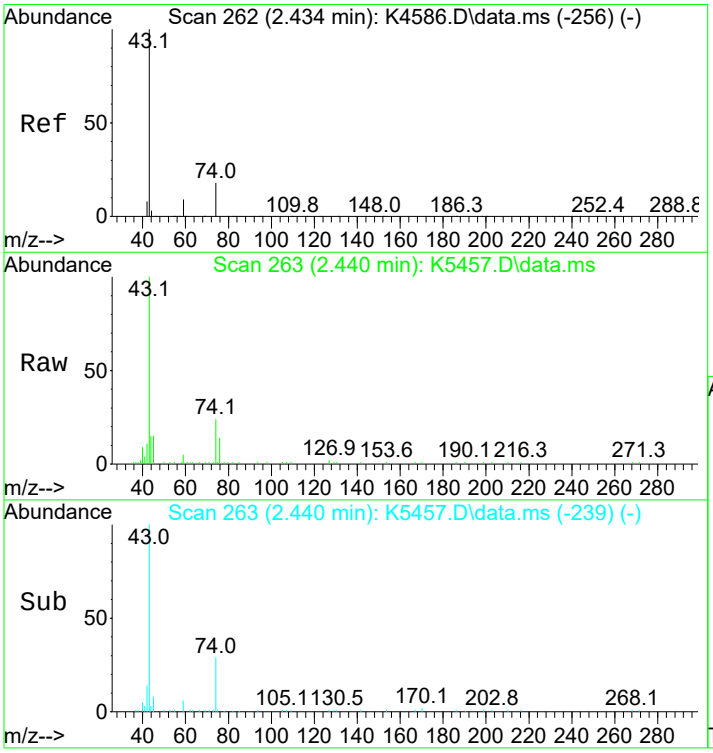


#16
Acetone
Concen: 4.08 ug/L m
RT: 2.172 min Scan# 219
Delta R.T. 0.018 min
Lab File: K5457.D
Acq: 01 Sep 2024 02:51 pm

Tgt Ion: 43 Resp: 11827

Ion	Ratio	Lower	Upper
43	100		
58	24.2	11.5	51.5
42	12.1	0.0	27.3

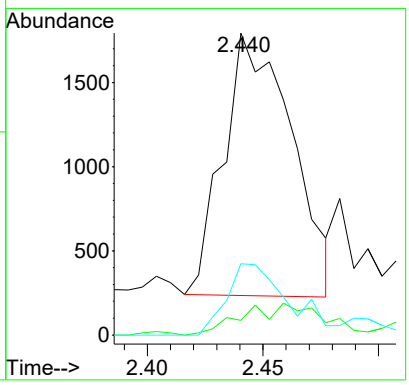


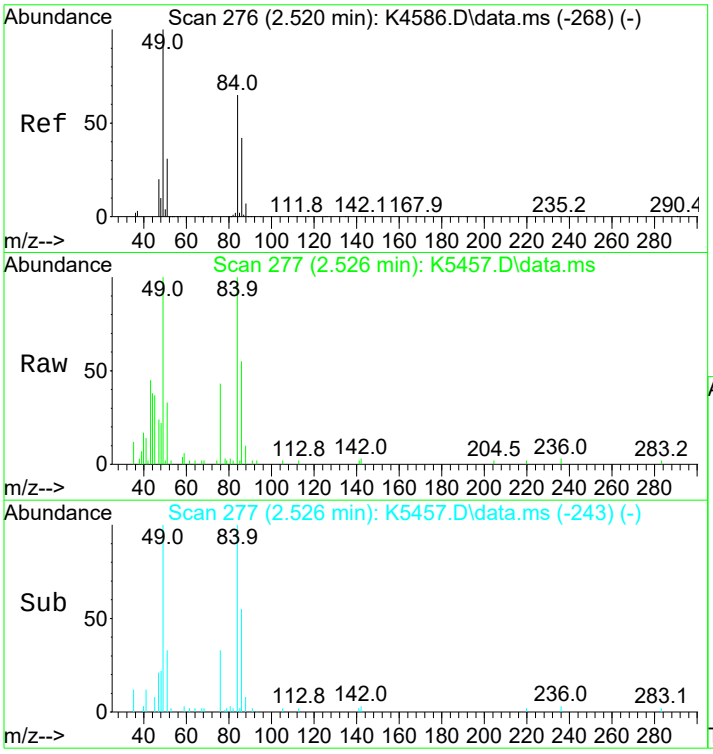


#21
Methyl Acetate
Concen: 0.63 ug/L
RT: 2.440 min Scan# 263
Delta R.T. 0.006 min
Lab File: K5457.D
Acq: 01 Sep 2024 02:51 pm

Tgt Ion: 43 Resp: 3201

Ion	Ratio	Lower	Upper
43	100		
59	4.8	0.0	29.1
74	23.6	0.0	38.1

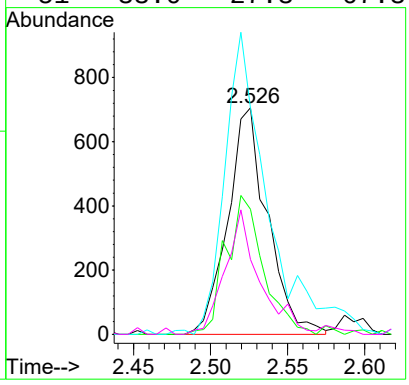


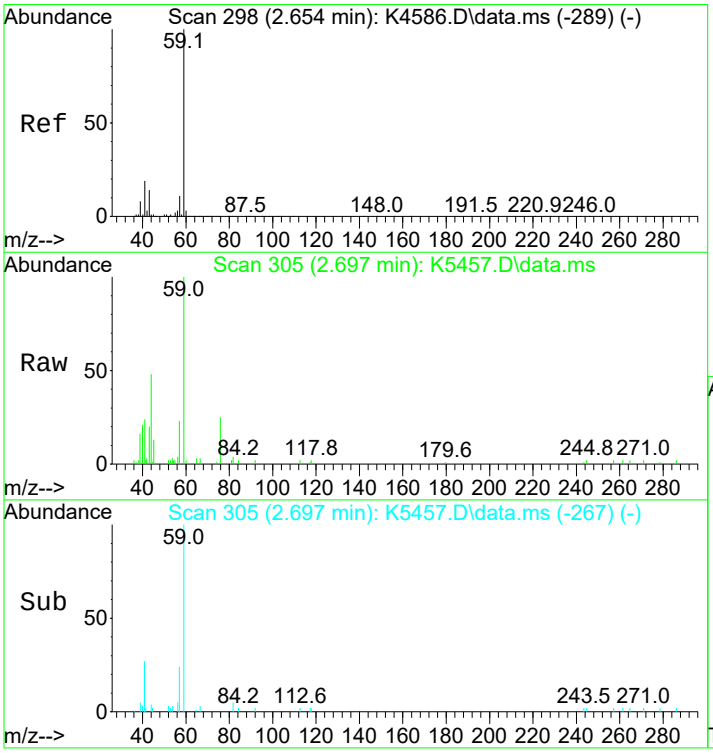


#22
Methylene Chloride
Concen: Below Cal
RT: 2.526 min Scan# 277
Delta R.T. 0.007 min
Lab File: K5457.D
Acq: 01 Sep 2024 02:51 pm

Tgt Ion: 84 Resp: 1264

Ion	Ratio	Lower	Upper
84	100		
86	55.2	44.7	84.7
49	99.9	134.9	174.9#
51	33.0	27.3	67.3

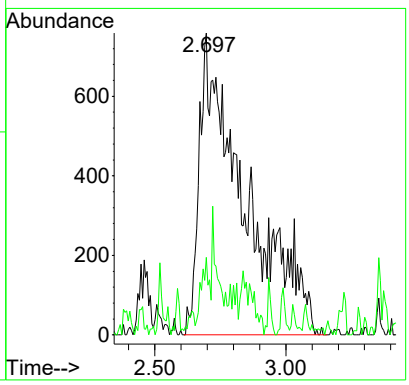


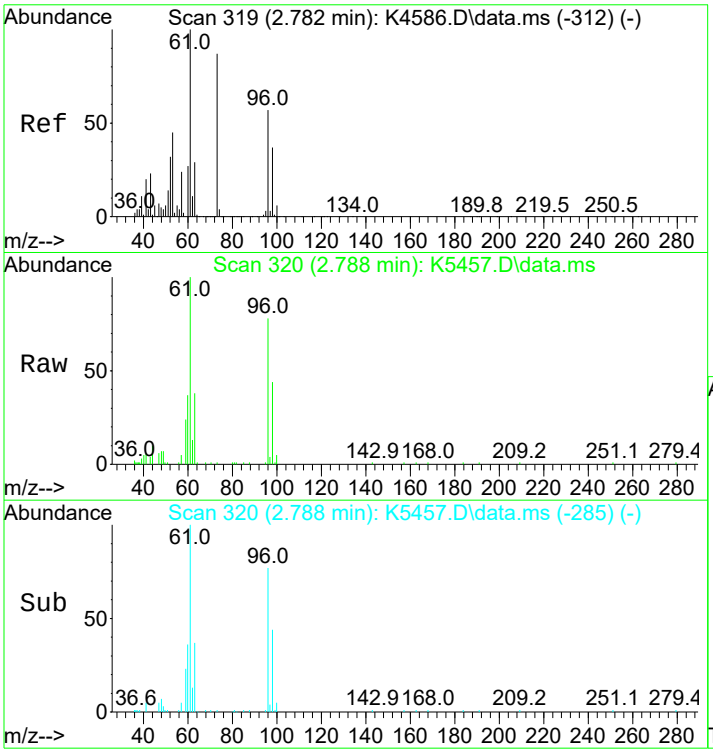


#23
TBA
Concen: 8.41 ug/L m
RT: 2.697 min Scan# 305
Delta R.T. 0.043 min
Lab File: K5457.D
Acq: 01 Sep 2024 02:51 pm

Tgt Ion: 59 Resp: 8916

Ion	Ratio	Lower	Upper
59	100		
41	24.0	0.0	39.7

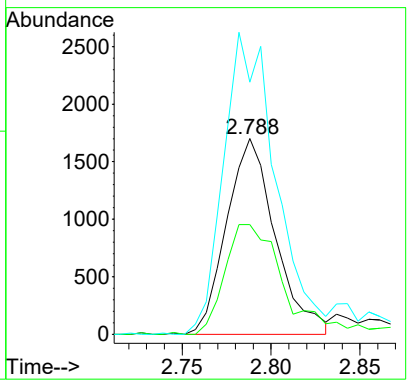


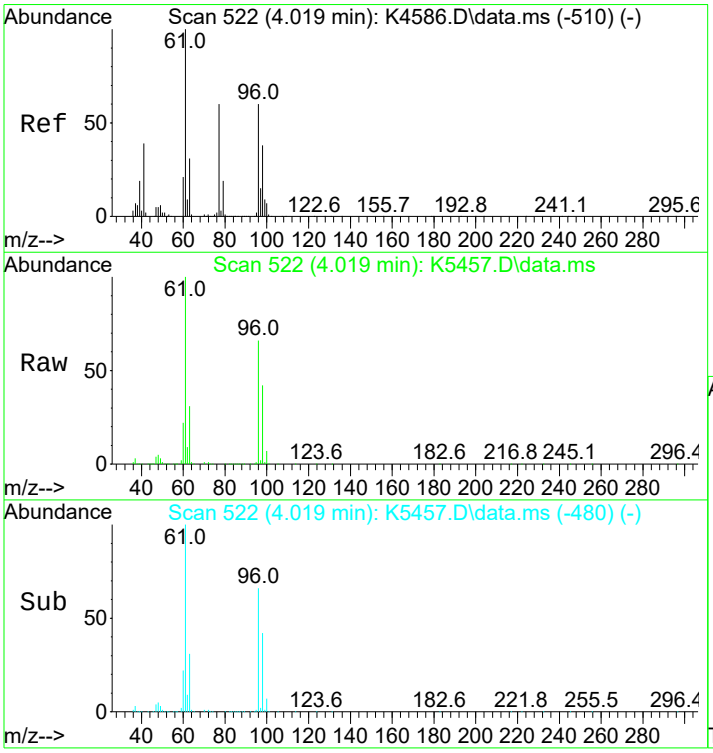


#26
trans-1,2-Dichloroethene
Concen: 0.96 ug/L
RT: 2.788 min Scan# 320
Delta R.T. 0.006 min
Lab File: K5457.D
Acq: 01 Sep 2024 02:51 pm

Tgt Ion: 96 Resp: 3248

Ion	Ratio	Lower	Upper
96	100		
98	56.0	45.1	85.1
61	128.7	154.0	194.0#

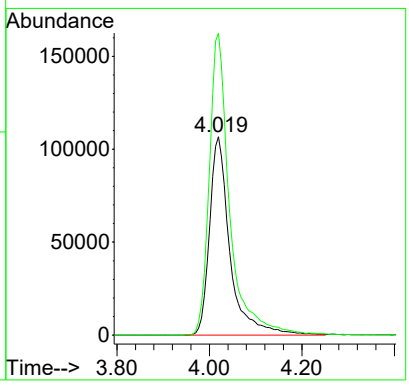


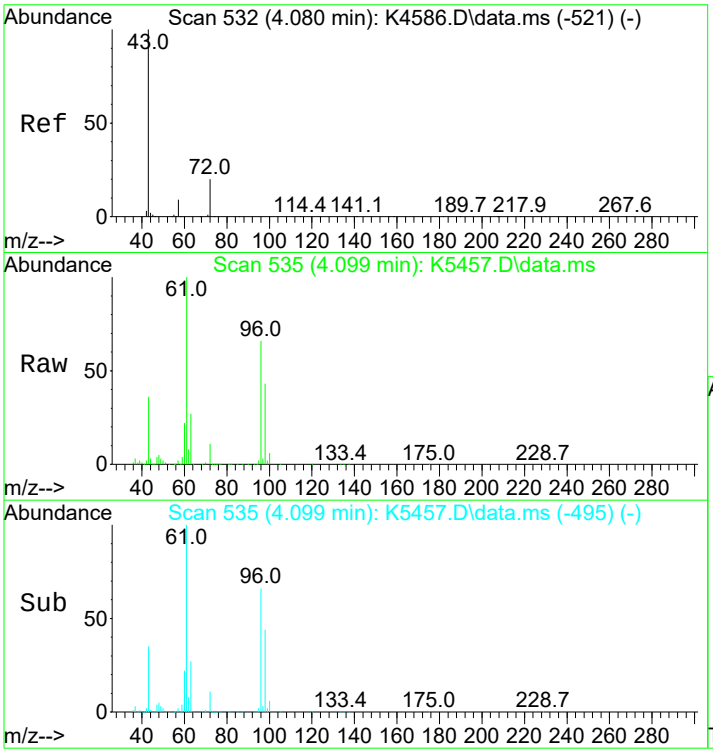


#33
cis-1,2-Dichloroethene
Concen: 83.41 ug/L
RT: 4.019 min Scan# 522
Delta R.T. -0.000 min
Lab File: K5457.D
Acq: 01 Sep 2024 02:51 pm

Tgt Ion: 96 Resp: 326920

Ion	Ratio	Lower	Upper
96	100		
61	152.3	147.9	187.9

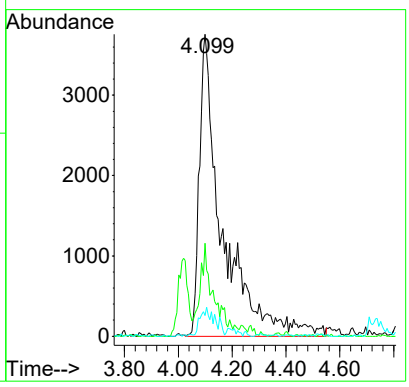


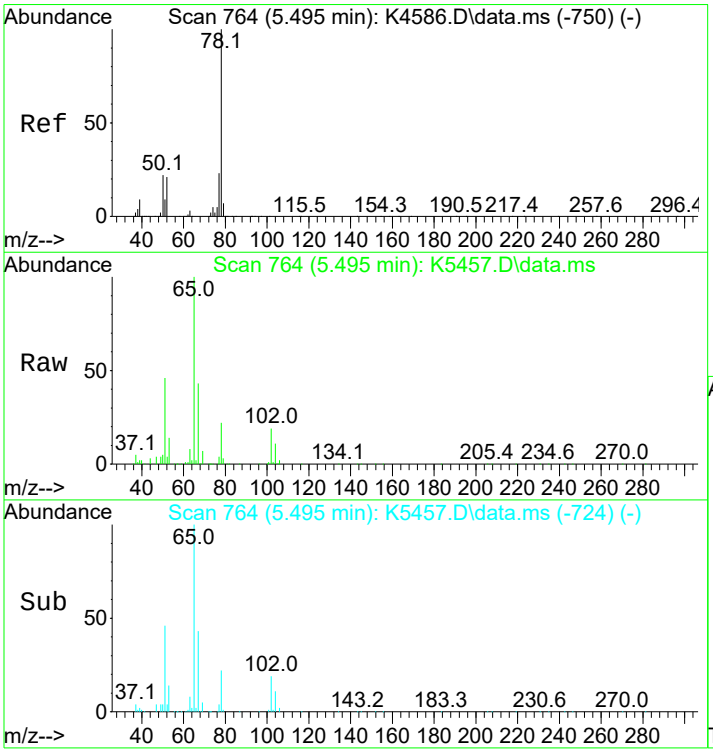


#34
2-Butanone
Concen: 6.41 ug/L m
RT: 4.099 min Scan# 535
Delta R.T. 0.018 min
Lab File: K5457.D
Acq: 01 Sep 2024 02:51 pm

Tgt Ion: 43 Resp: 22176

Ion	Ratio	Lower	Upper
43	100		
72	30.8	1.2	41.2
57	6.9	0.0	29.2

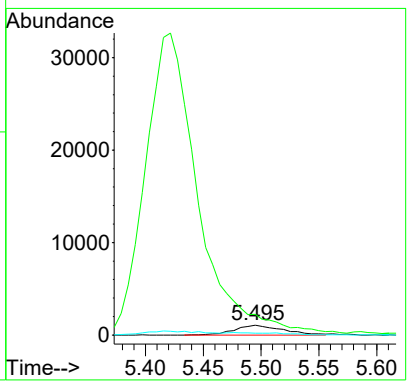


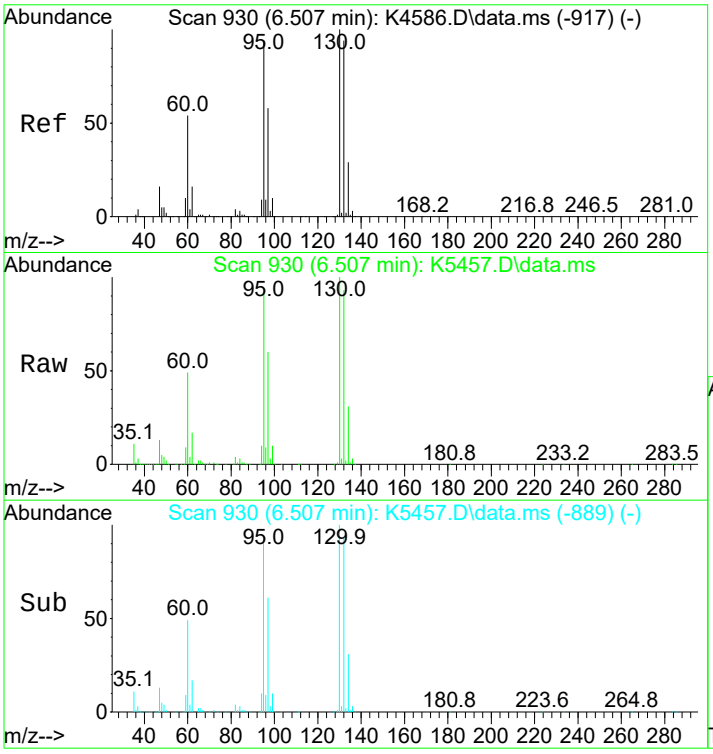


#48
Benzene
Concen: 0.23 ug/L
RT: 5.495 min Scan# 764
Delta R.T. -0.000 min
Lab File: K5457.D
Acq: 01 Sep 2024 02:51 pm

Tgt Ion: 78 Resp: 3053

Ion	Ratio	Lower	Upper
78	100		
51	212.8	3.1	43.1#
52	18.9	1.2	41.2

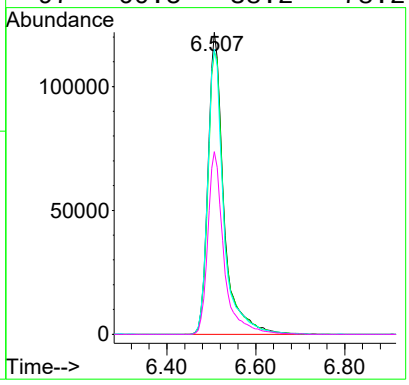




#53
Trichloroethene
Concen: 77.47 ug/L
RT: 6.507 min Scan# 930
Delta R.T. -0.000 min
Lab File: K5457.D
Acq: 01 Sep 2024 02:51 pm

Tgt Ion:130 Resp: 302842

Ion	Ratio	Lower	Upper
130	100		
132	93.4	74.0	114.0
95	94.4	74.1	114.1
97	60.5	38.2	78.2



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5427.D
Acq On : 31 Aug 2024 01:39 pm
Operator : F.NAEGLER
Sample : R2408139-013
Misc : CEC 26473 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 01 11:39:53 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

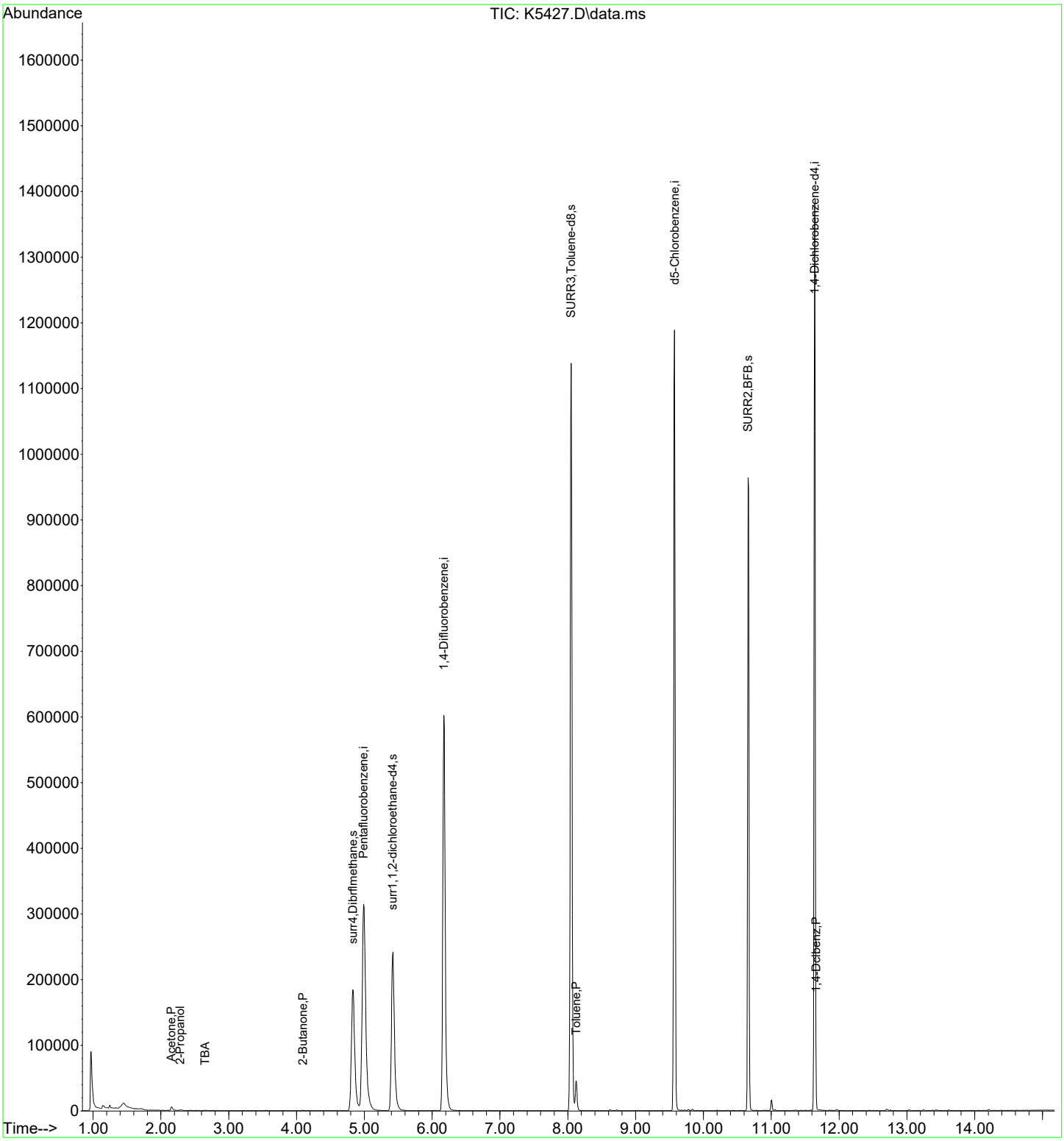
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	4.989	168	374522	50.00 ug/L	0.00
42) 1,4-Difluorobenzene	6.172	114	624096	50.00 ug/L	0.00
70) d5-Chlorobenzene	9.573	117	554578	50.00 ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	255456	50.00 ug/L	# 0.00
System Monitoring Compounds					
44) surr4,Dibrflmethane	4.830	113	199499	51.24 ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 102.48%		
47) surr1,1,2-dichloroetha...	5.416	65	274008	51.49 ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.98%		
64) SURR3,Toluene-d8	8.049	98	731065	51.17 ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.34%		
69) SURR2,BFB	10.659	95	270192	48.10 ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 96.20%		
Target Compounds					Qvalue
6) Bromomethane	1.465	94	252	Below Cal #	76
16) Acetone	2.154	43	7321	2.442 ug/L	83
17) 2-Propanol	2.282	45	1130	1.911 ug/L	100
23) TBA	2.654	59	669	0.611 ug/L	92
34) 2-Butanone	4.093	43	844	0.236 ug/L	86
65) Toluene	8.122	91	30095	1.986 ug/L	97
105) 1,4-Dclbenz	11.658	146	1651	0.210 ug/L #	60

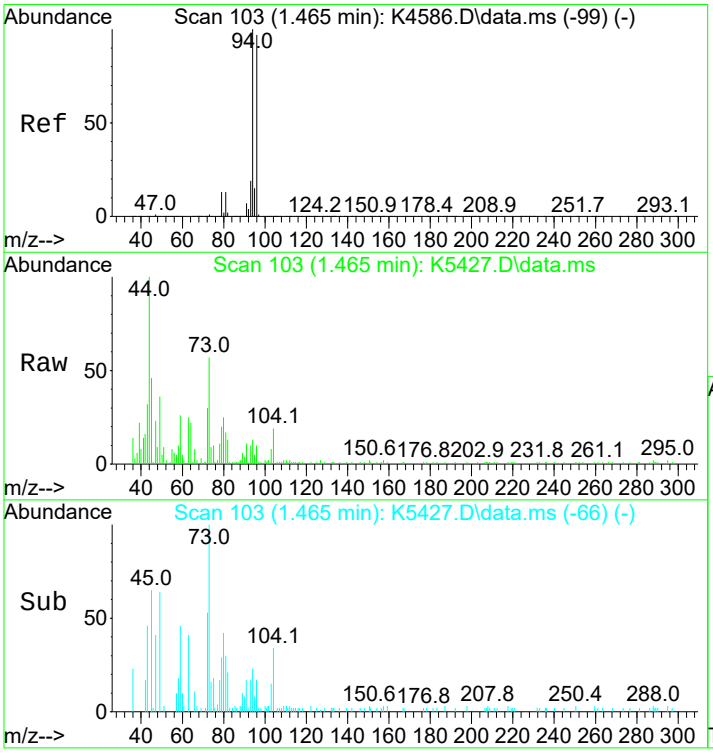
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5427.D
Acq On : 31 Aug 2024 01:39 pm
Operator : F.NAEGLER
Sample : R2408139-013
Misc : CEC 26473 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 01 11:39:53 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

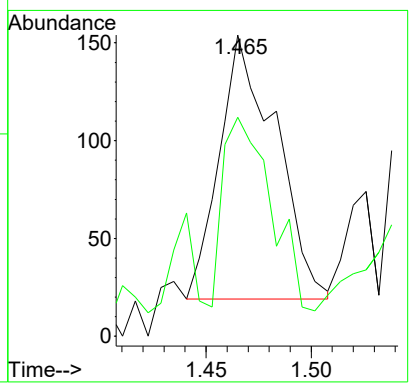


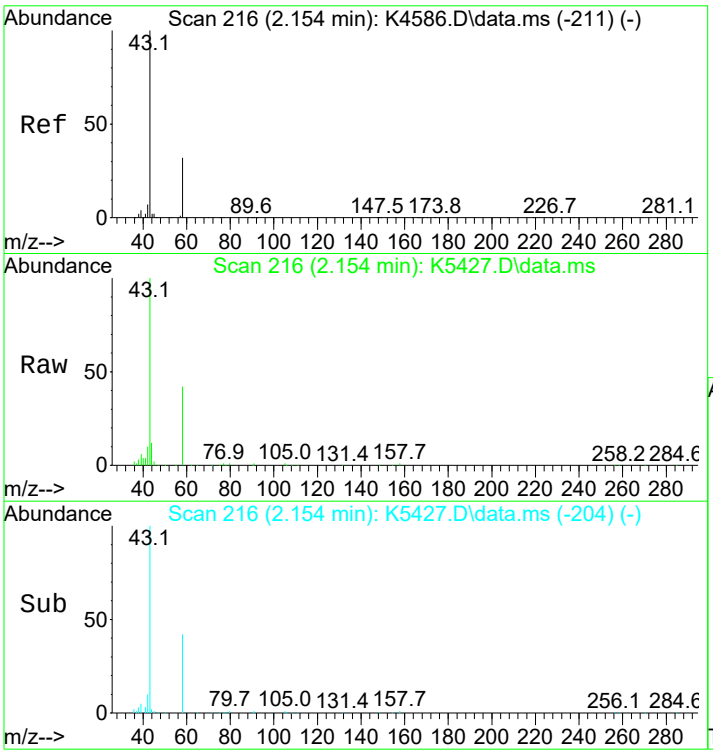


#6
Bromomethane
Concen: Below Cal
RT: 1.465 min Scan# 103
Delta R.T. 0.000 min
Lab File: K5427.D
Acq: 31 Aug 2024 01:39 pm

Tgt Ion: 94 Resp: 252

Ion	Ratio	Lower	Upper
94	100		
96	72.7	76.6	116.6#

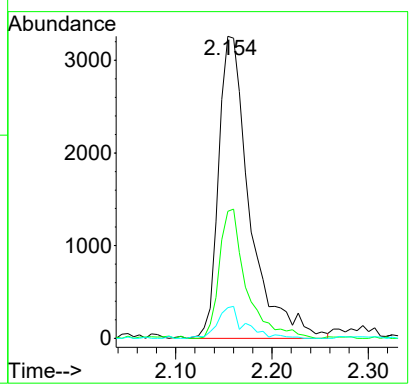


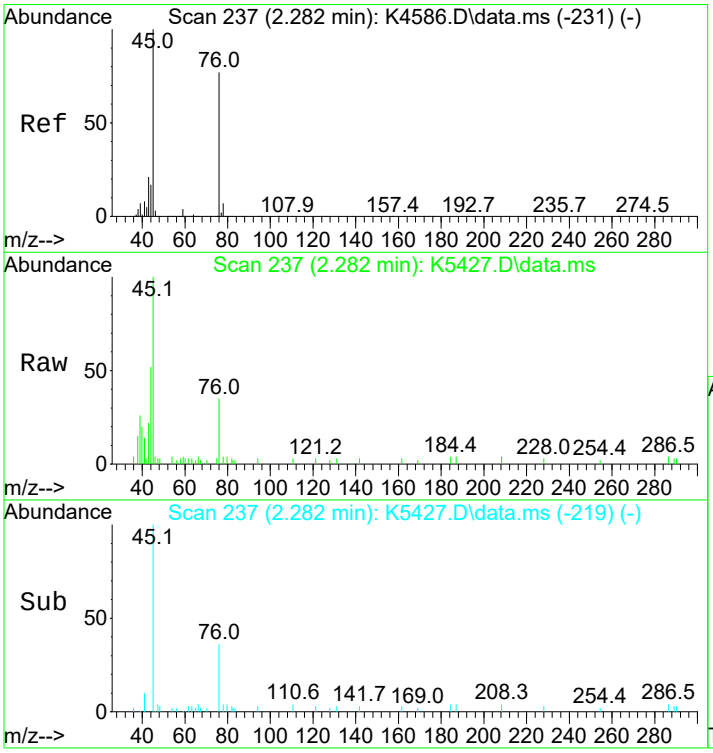


#16
Acetone
Concen: 2.44 ug/L
RT: 2.154 min Scan# 216
Delta R.T. 0.000 min
Lab File: K5427.D
Acq: 31 Aug 2024 01:39 pm

Tgt Ion: 43 Resp: 7321

Ion	Ratio	Lower	Upper
43	100		
58	42.0	11.5	51.5
42	10.2	0.0	27.3

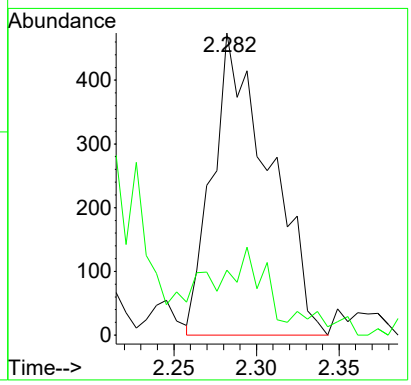


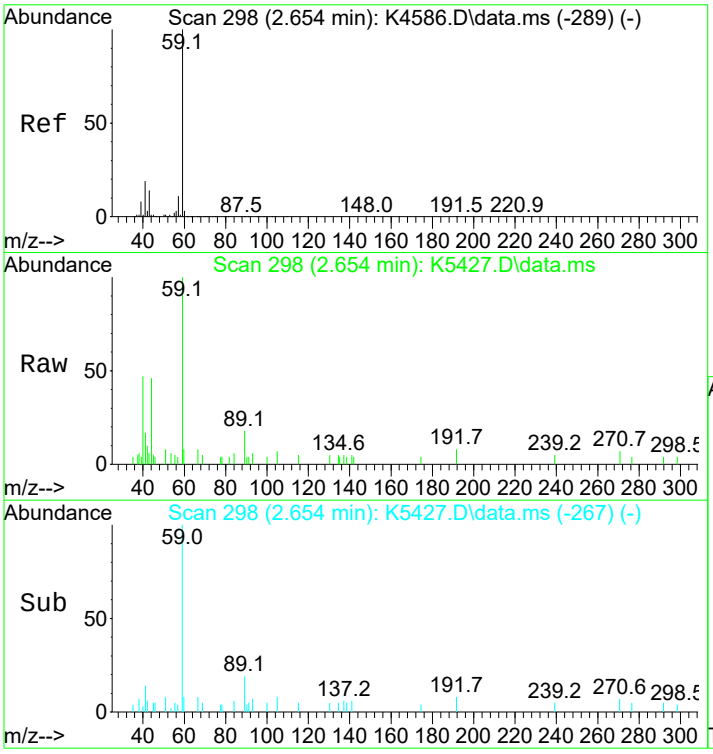


#17
2-Propanol
Concen: 1.91 ug/L
RT: 2.282 min Scan# 237
Delta R.T. 0.000 min
Lab File: K5427.D
Acq: 31 Aug 2024 01:39 pm

Tgt Ion: 45 Resp: 1130

Ion	Ratio	Lower	Upper
45	100		
43	21.5	1.4	41.4

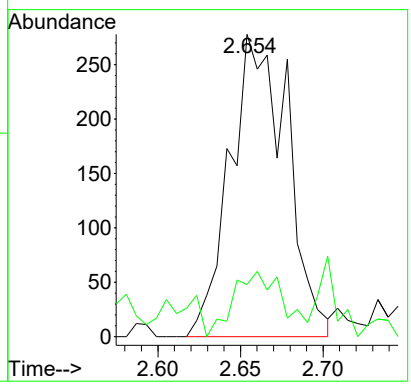


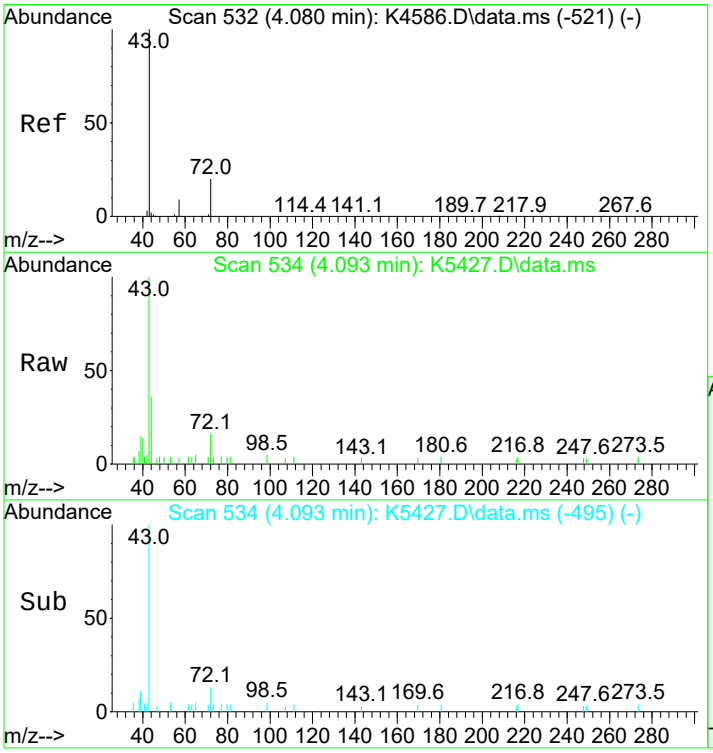


#23
TBA
Concen: 0.61 ug/L
RT: 2.654 min Scan# 298
Delta R.T. 0.000 min
Lab File: K5427.D
Acq: 31 Aug 2024 01:39 pm

Tgt Ion: 59 Resp: 669

Ion	Ratio	Lower	Upper
59	100		
41	16.1	0.0	39.7

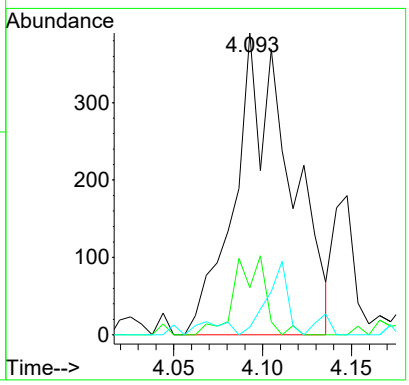


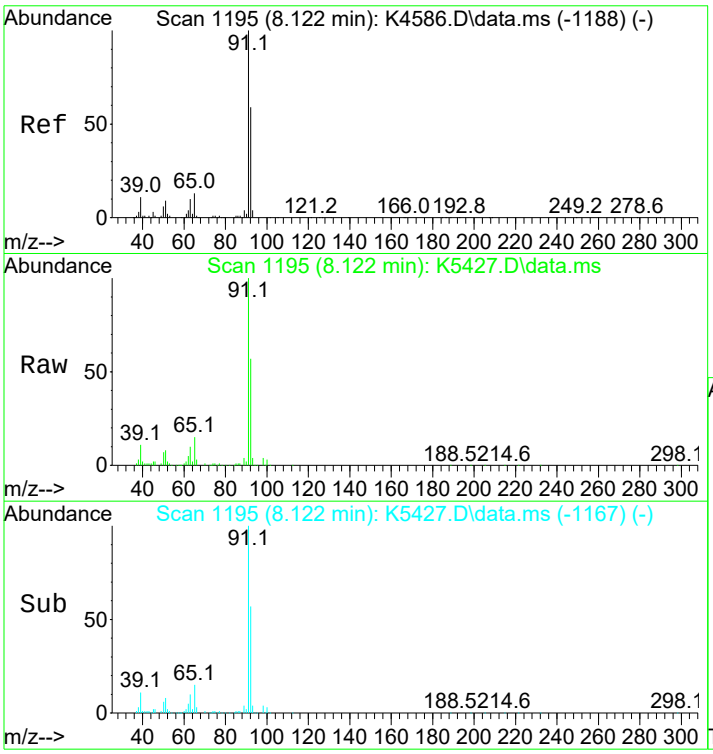


#34
2-Butanone
Concen: 0.24 ug/L
RT: 4.093 min Scan# 534
Delta R.T. 0.012 min
Lab File: K5427.D
Acq: 31 Aug 2024 01:39 pm

Tgt Ion: 43 Resp: 844

Ion	Ratio	Lower	Upper
43	100		
72	15.6	1.2	41.2
57	2.6	0.0	29.2

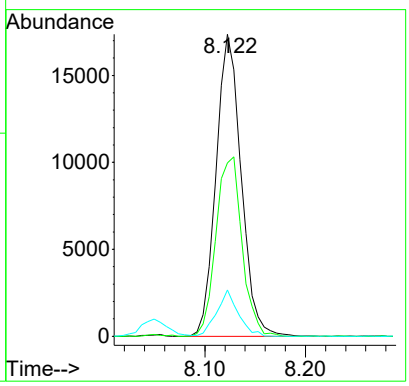


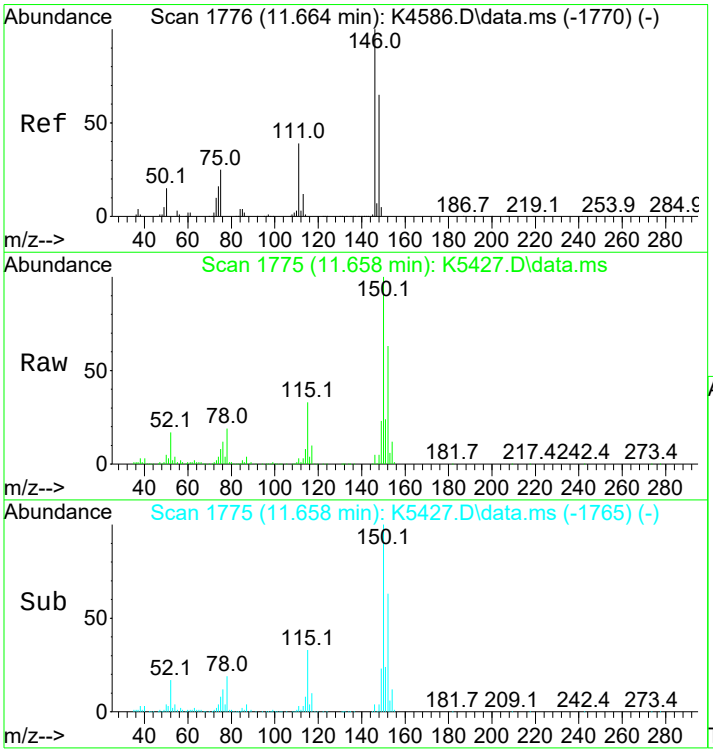


#65
Toluene
Concen: 1.99 ug/L
RT: 8.122 min Scan# 1195
Delta R.T. 0.000 min
Lab File: K5427.D
Acq: 31 Aug 2024 01:39 pm

Tgt Ion: 91 Resp: 30095

Ion	Ratio	Lower	Upper
91	100		
92	57.5	39.0	79.0
65	15.3	0.0	32.8

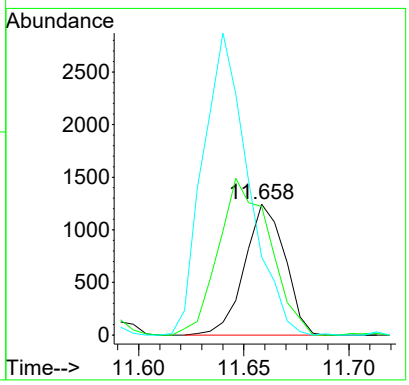




#105
1,4-Dclbenz
Concen: 0.21 ug/L
RT: 11.658 min Scan# 1775
Delta R.T. -0.006 min
Lab File: K5427.D
Acq: 31 Aug 2024 01:39 pm

Tgt Ion:146 Resp: 1651

Ion	Ratio	Lower	Upper
146	100		
148	98.4	44.8	84.8#
111	59.7	18.8	58.8#



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5392.D
Acq On : 30 Aug 2024 10:00 am
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 30 11:47:22 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

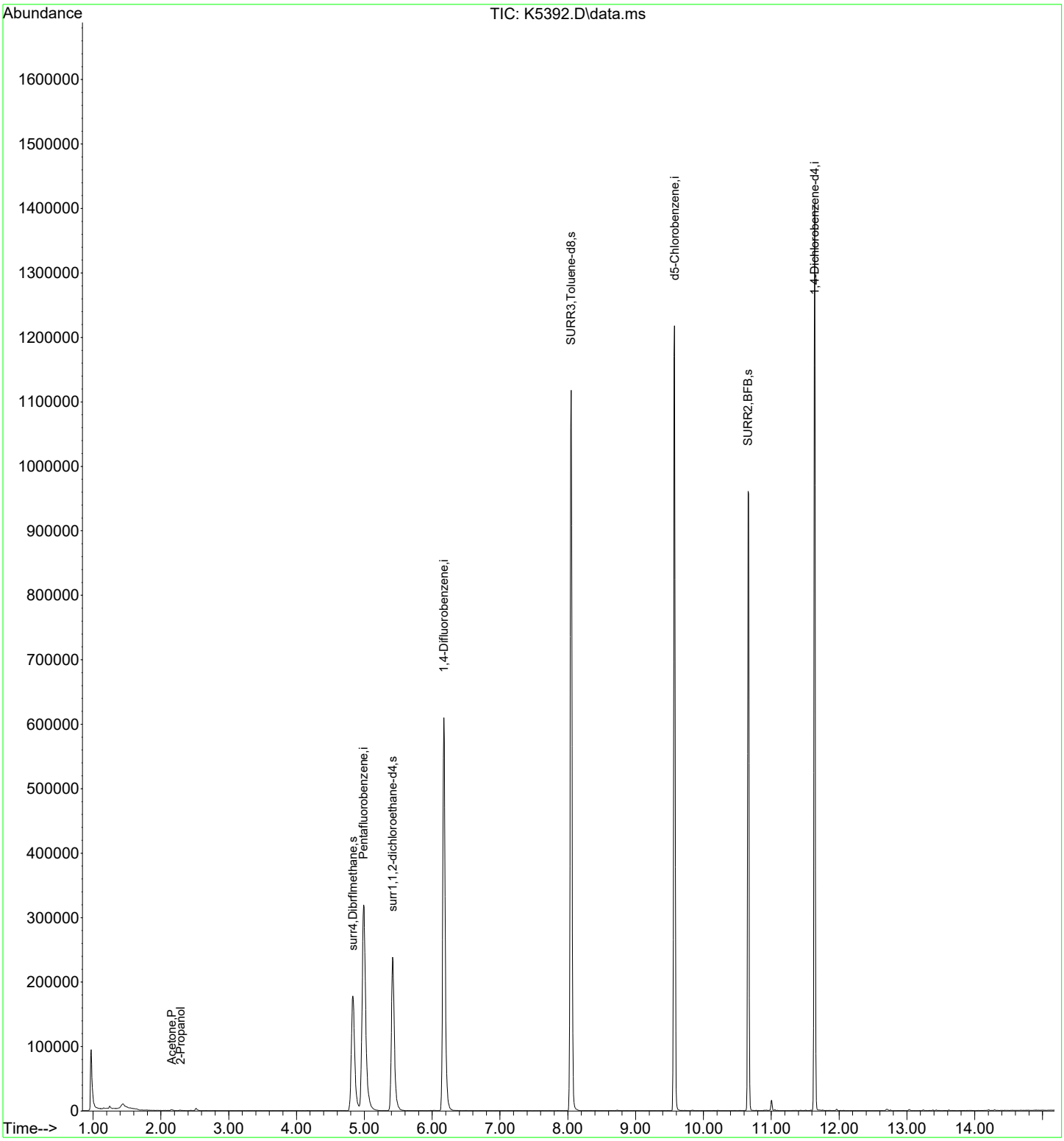
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.989	168	383490	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.172	114	626756	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.573	117	563835	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	258249	50.00	ug/L	# 0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.830	113	194113	49.65	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 99.30%			
47) surr1,1,2-dichloroetha...	5.416	65	268703	50.28	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.56%			
64) SURR3,Toluene-d8	8.049	98	727884	50.73	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.46%			
69) SURR2,BFB	10.659	95	270945	48.03	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 96.06%			
Target Compounds						Qvalue
16) Acetone	2.160	43	1931	0.629	ug/L	92
17) 2-Propanol	2.288	45	531	0.877	ug/L	94
22) Methylene Chloride	2.520	84	1486	Below Cal	#	90

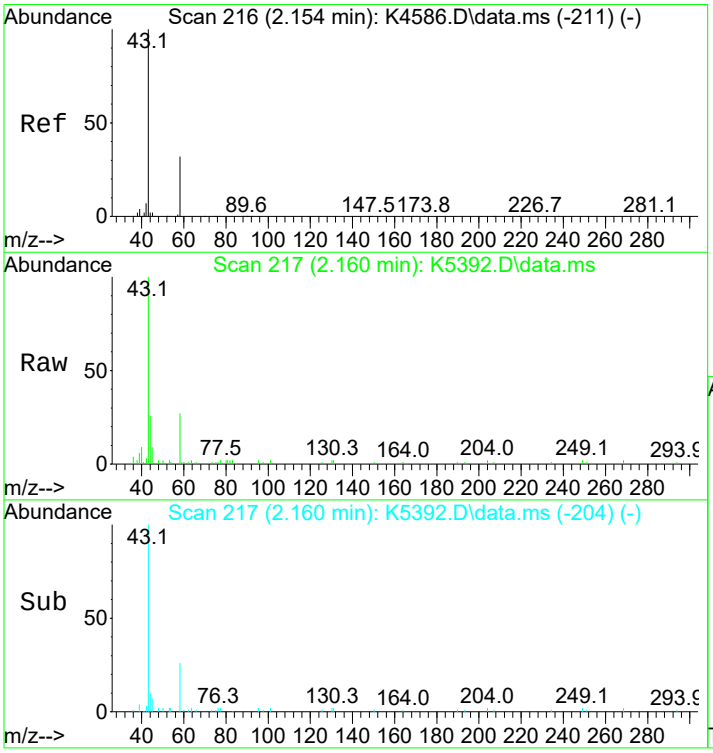
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5392.D
Acq On : 30 Aug 2024 10:00 am
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 30 11:47:22 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

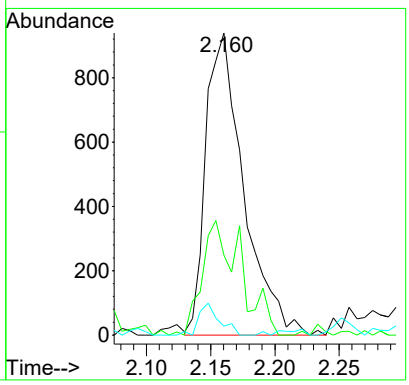


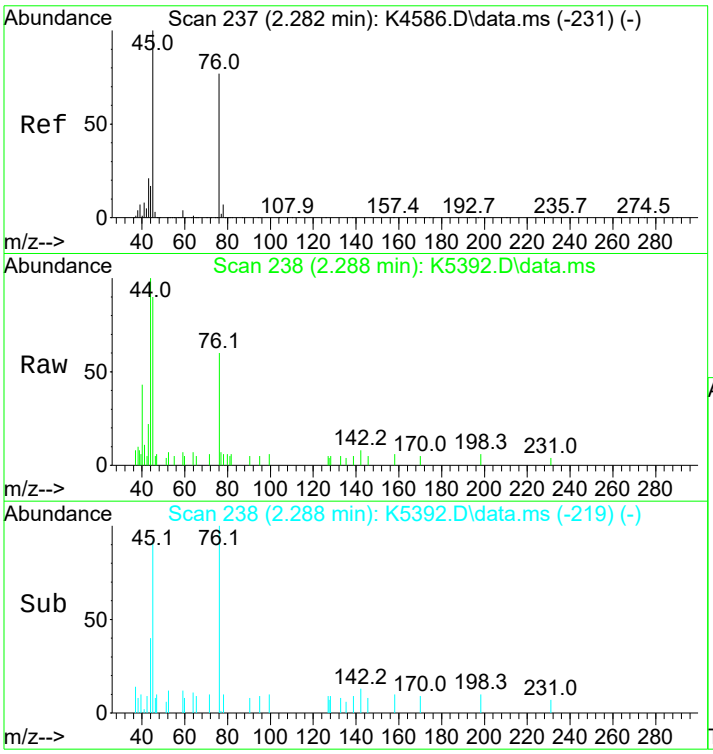


#16
Acetone
Concen: 0.63 ug/L
RT: 2.160 min Scan# 217
Delta R.T. 0.006 min
Lab File: K5392.D
Acq: 30 Aug 2024 10:00 am

Tgt Ion: 43 Resp: 1931

Ion	Ratio	Lower	Upper
43	100		
58	27.9	11.5	51.5
42	3.0	0.0	27.3

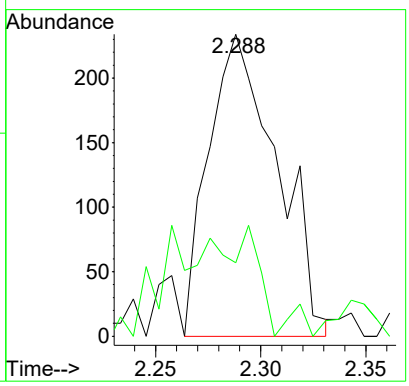


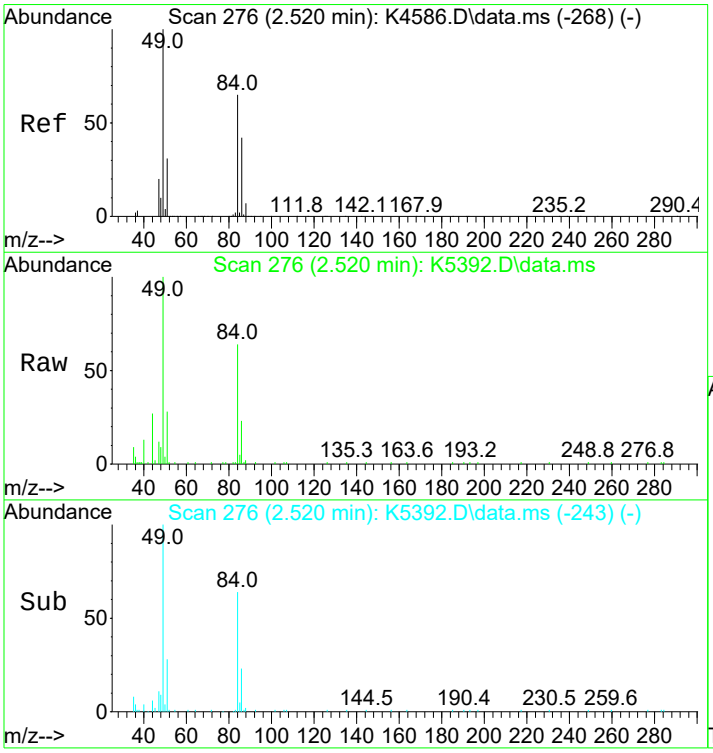


#17
2-Propanol
Concen: 0.88 ug/L
RT: 2.288 min Scan# 238
Delta R.T. 0.006 min
Lab File: K5392.D
Acq: 30 Aug 2024 10:00 am

Tgt Ion: 45 Resp: 531

Ion	Ratio	Lower	Upper
45	100		
43	24.4	1.4	41.4

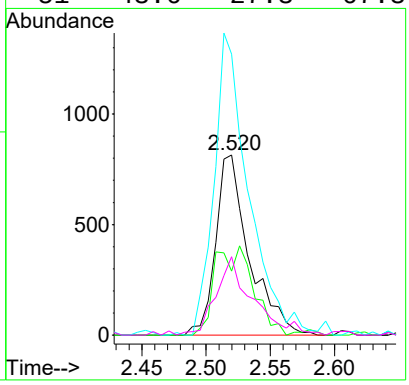




#22
Methylene Chloride
Concen: Below Cal
RT: 2.520 min Scan# 276
Delta R.T. 0.001 min
Lab File: K5392.D
Acq: 30 Aug 2024 10:00 am

Tgt Ion: 84 Resp: 1486

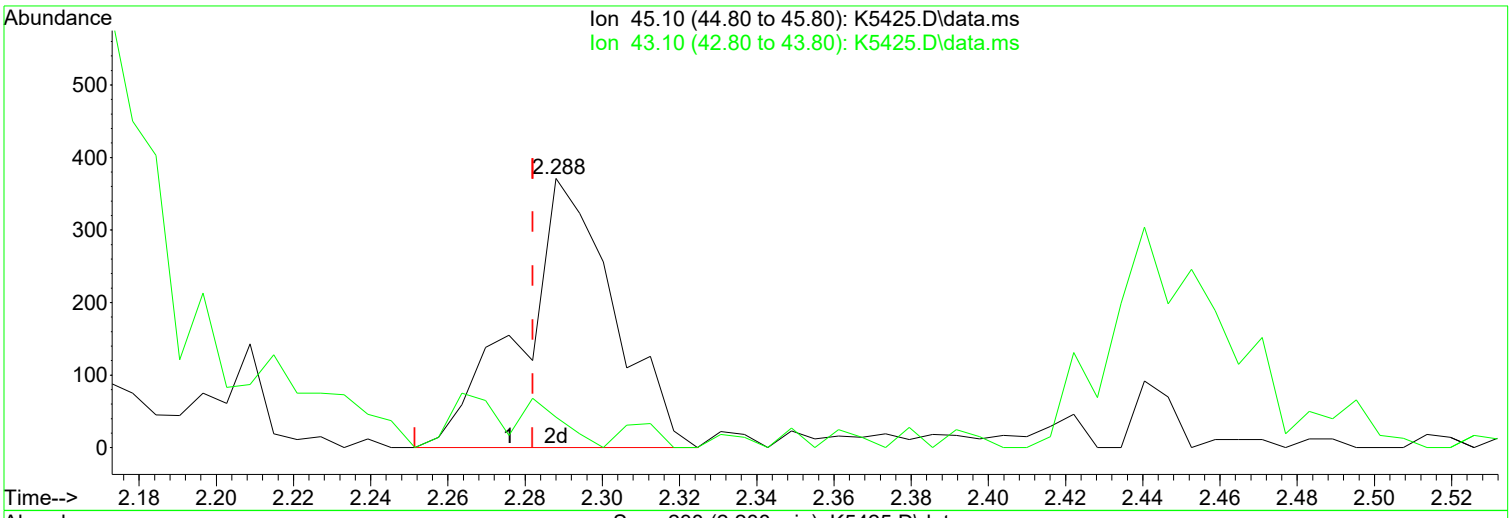
Ion	Ratio	Lower	Upper
84	100		
86	35.6	44.7	84.7#
49	156.1	134.9	174.9
51	43.6	27.3	67.3

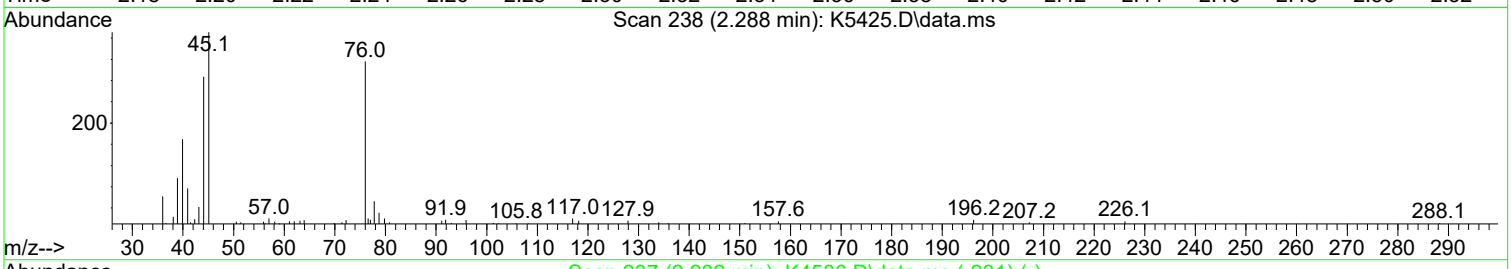


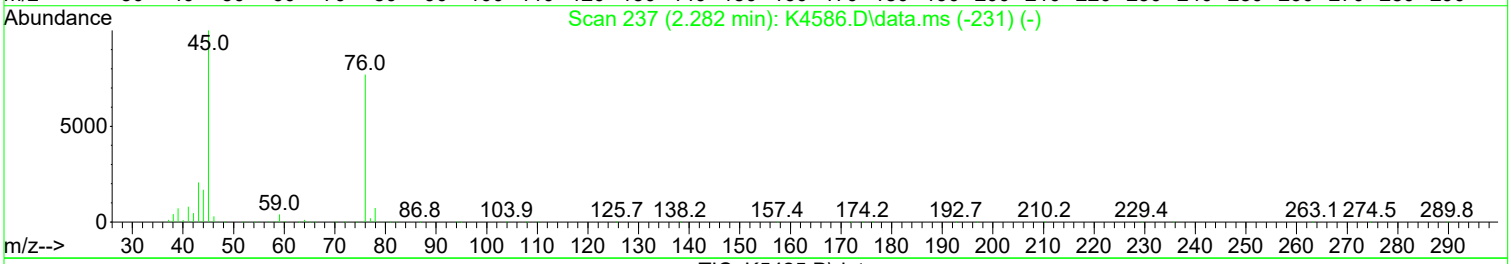
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5425.D
Acq On : 31 Aug 2024 12:52 pm
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 31 13:26:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5425.D\data.ms

(17) 2-Propanol

2.288min (+ 0.006) 1.00 ug/L m

response 620

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	21.40	11.32
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

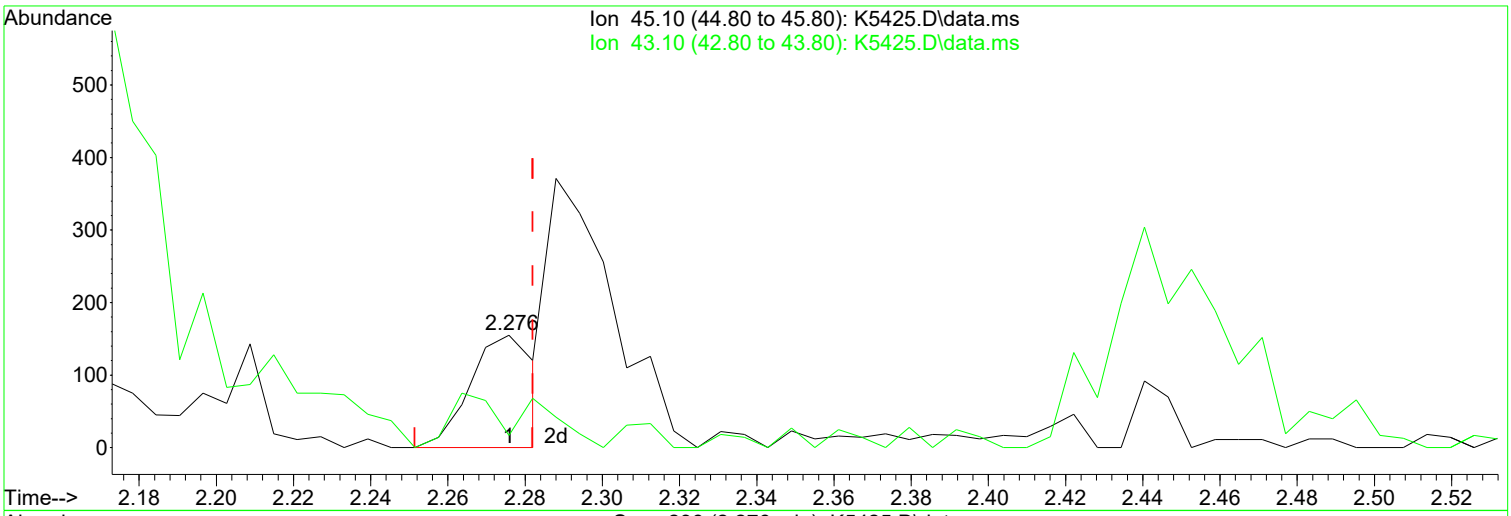
Poor integration.

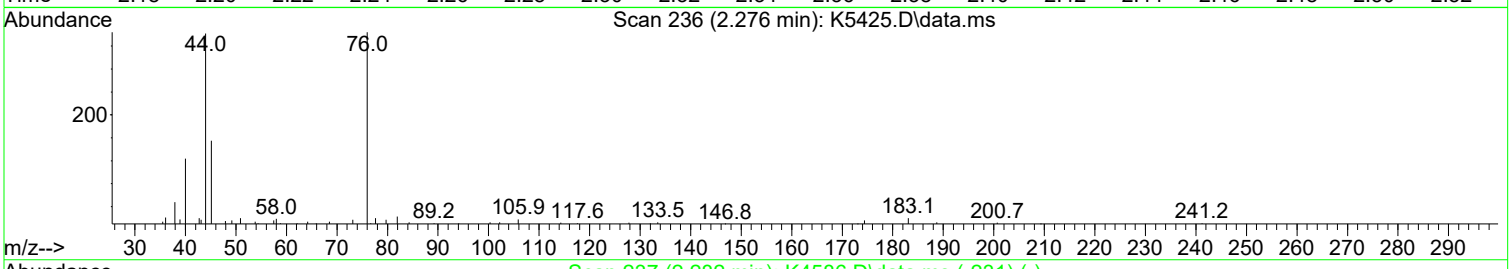
09/02/24

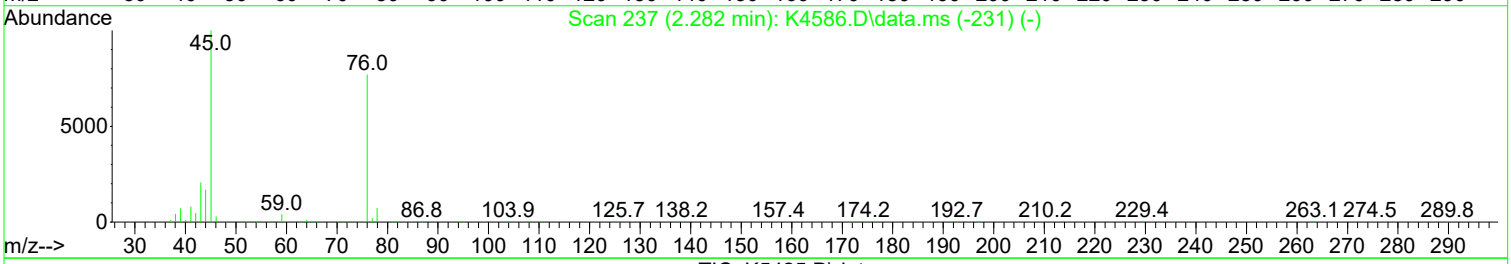
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5425.D
Acq On : 31 Aug 2024 12:52 pm
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 31 13:26:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5425.D\data.ms

(17) 2-Propanol

2.276min (-0.006) 0.29 ug/L

response 178

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	21.40	10.97
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/02/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5425.D
Acq On : 31 Aug 2024 12:52 pm
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 31 13:26:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

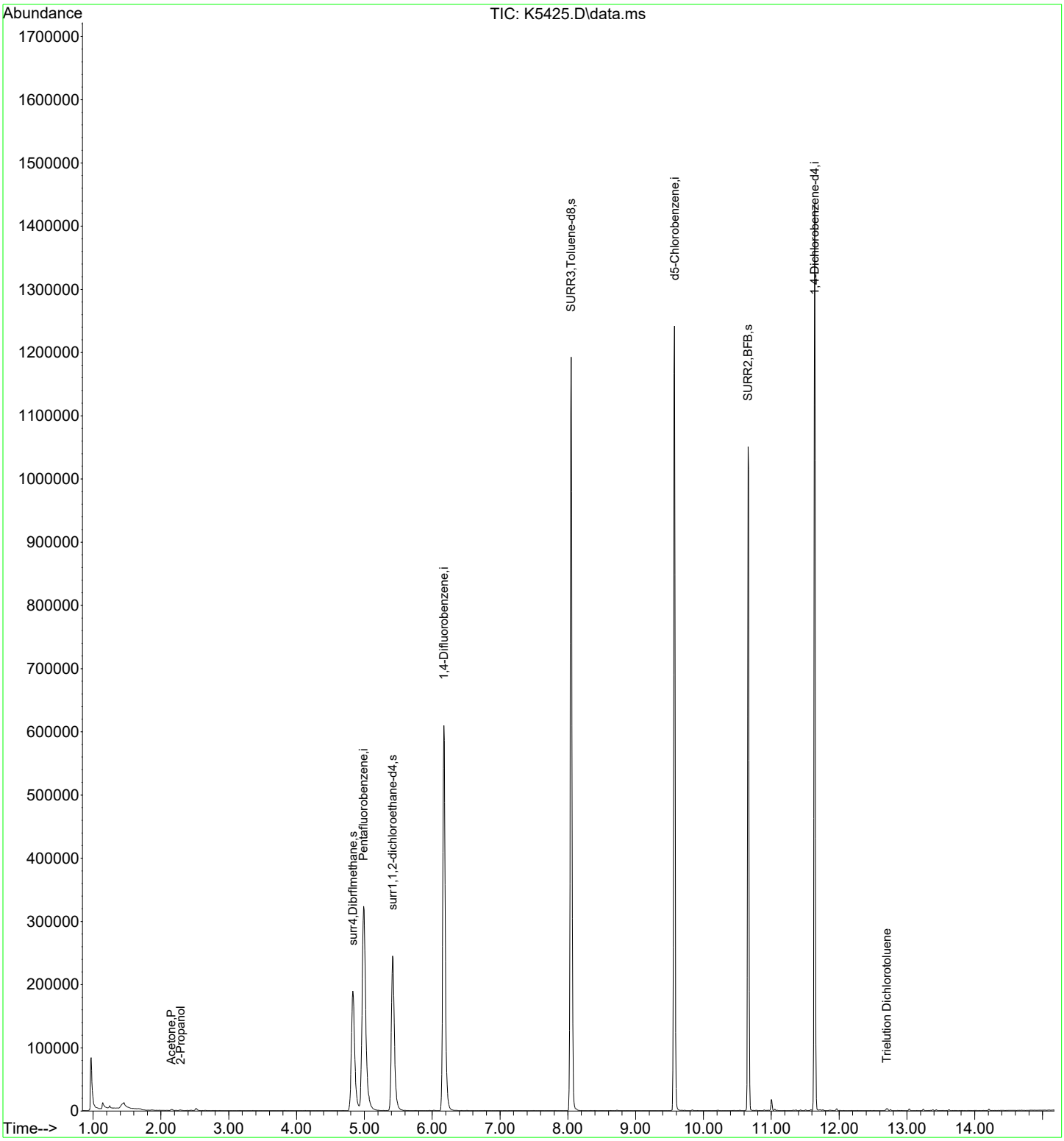
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.989	168	391681	50.00	ug/L		0.00
42) 1,4-Difluorobenzene	6.171	114	638243	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.573	117	568242	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	260718	50.00	ug/L	#	0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.830	113	201826	50.69	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 101.38%				
47) surr1,1,2-dichloroetha...	5.415	65	279167	51.30	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.60%				
64) SURR3,Toluene-d8	8.049	98	768507	52.60	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 105.20%				
69) SURR2,BFB	10.658	95	291834	50.80	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.60%				
Target Compounds							Qvalue
6) Bromomethane	1.465	94	378	Below Cal		#	52
16) Acetone	2.154	43	2230	0.711	ug/L		91
17) 2-Propanol	2.288	45	620m	1.003	ug/L		
22) Methylene Chloride	2.520	84	1727	Below Cal		#	74
111) Trielution Dichlorotol...	12.701	125	1819	0.245	ug/L	#	64

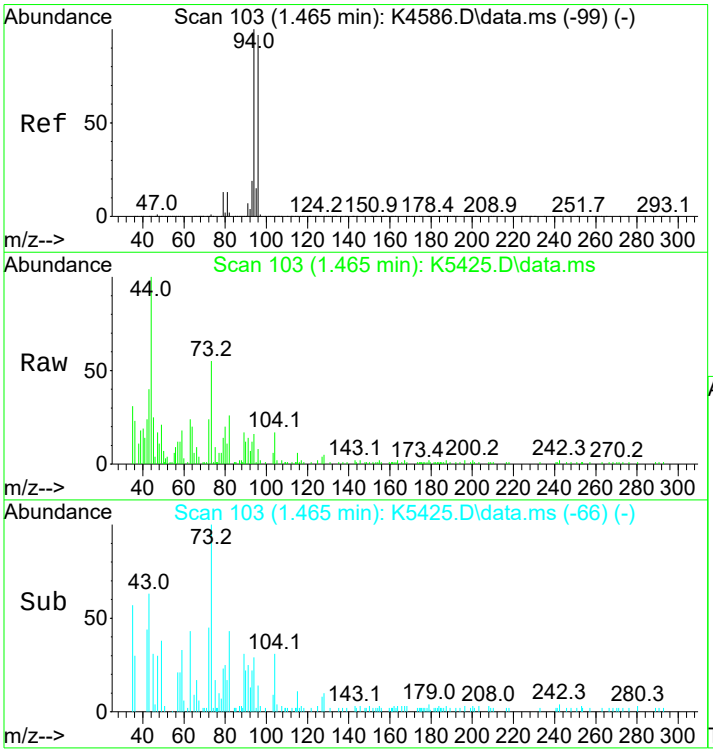
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5425.D
Acq On : 31 Aug 2024 12:52 pm
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 31 13:26:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

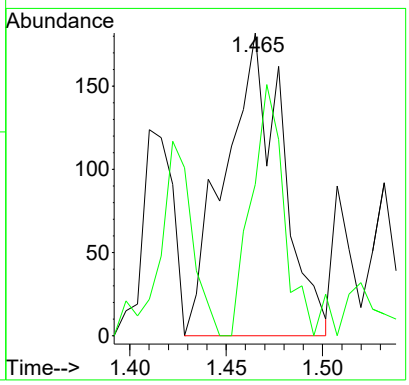


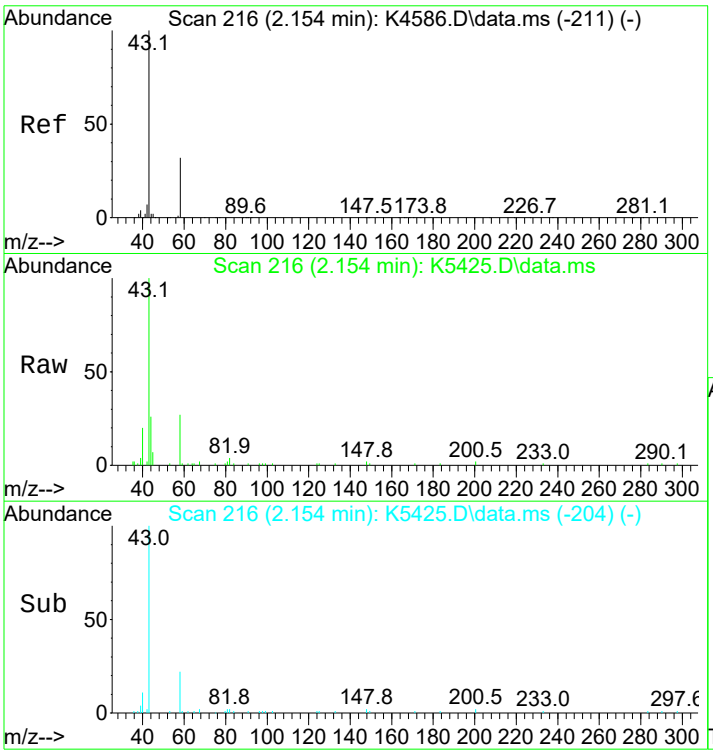


#6
Bromomethane
Concen: Below Cal
RT: 1.465 min Scan# 103
Delta R.T. 0.000 min
Lab File: K5425.D
Acq: 31 Aug 2024 12:52 pm

Tgt Ion: 94 Resp: 378

Ion	Ratio	Lower	Upper
94	100		
96	50.0	76.6	116.6#

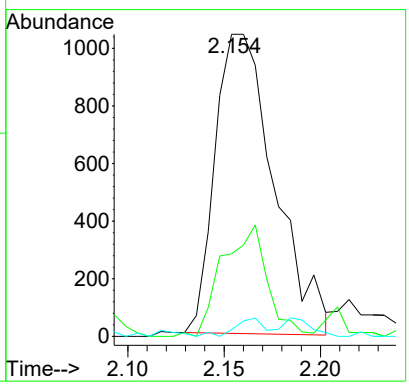


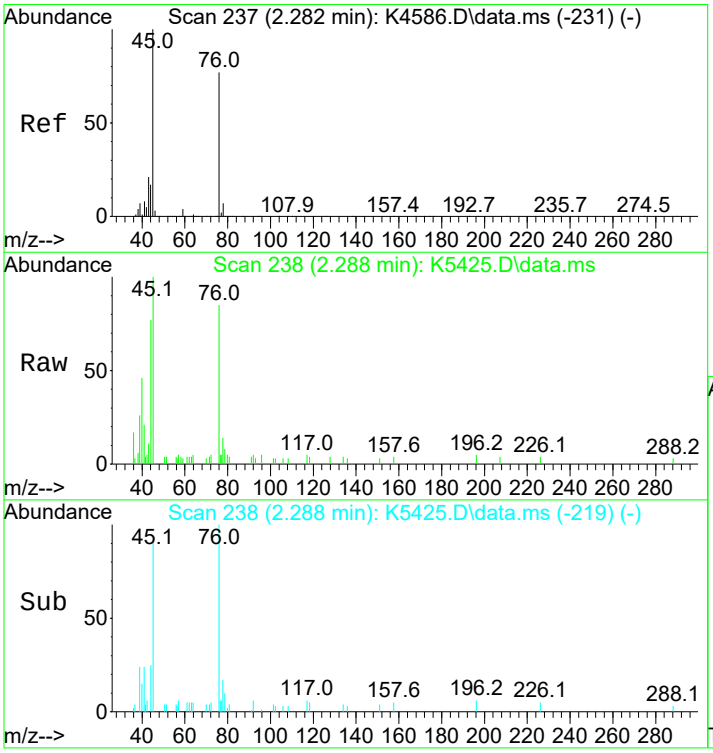


#16
Acetone
Concen: 0.71 ug/L
RT: 2.154 min Scan# 216
Delta R.T. -0.000 min
Lab File: K5425.D
Acq: 31 Aug 2024 12:52 pm

Tgt Ion: 43 Resp: 2230

Ion	Ratio	Lower	Upper
43	100		
58	27.4	11.5	51.5
42	2.2	0.0	27.3

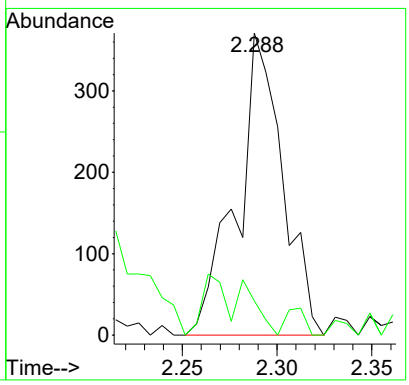


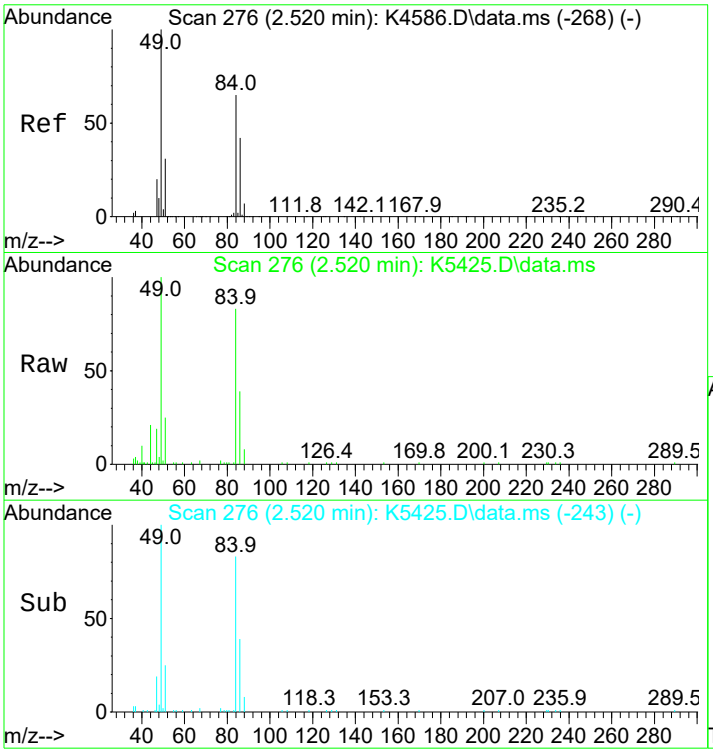


#17
2-Propanol
Concen: 1.00 ug/L m
RT: 2.288 min Scan# 238
Delta R.T. 0.006 min
Lab File: K5425.D
Acq: 31 Aug 2024 12:52 pm

Tgt Ion: 45 Resp: 620

Ion	Ratio	Lower	Upper
45	100		
43	11.3	1.4	41.4

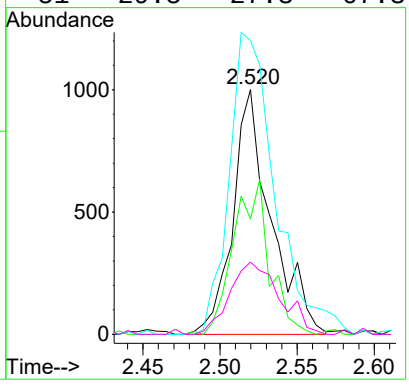


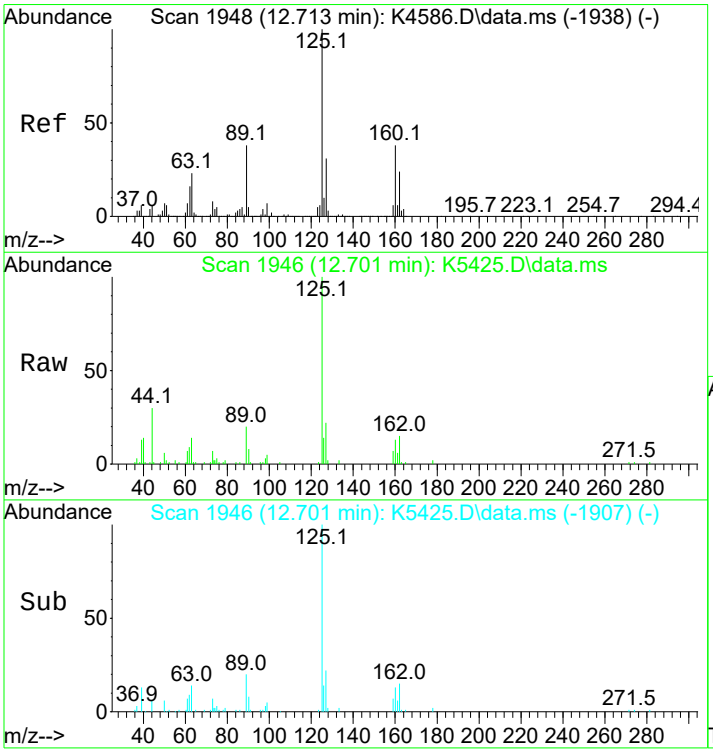


#22
Methylene Chloride
Concen: Below Cal
RT: 2.520 min Scan# 276
Delta R.T. 0.001 min
Lab File: K5425.D
Acq: 31 Aug 2024 12:52 pm

Tgt Ion: 84 Resp: 1727

Ion	Ratio	Lower	Upper
84	100		
86	47.1	44.7	84.7
49	120.0	134.9	174.9#
51	29.5	27.3	67.3

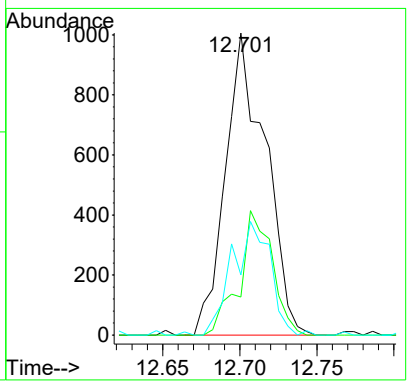




#111
Trielution Dichlorotoluene
Concen: 0.25 ug/L
RT: 12.701 min Scan# 1946
Delta R.T. -0.012 min
Lab File: K5425.D
Acq: 31 Aug 2024 12:52 pm

Tgt Ion:125 Resp: 1819

Ion	Ratio	Lower	Upper
125	100		
160	12.6	18.0	58.0#
89	19.9	17.9	57.9



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\090124\
Data File : K5456.D
Acq On : 01 Sep 2024 02:26 pm
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 01 14:43:29 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

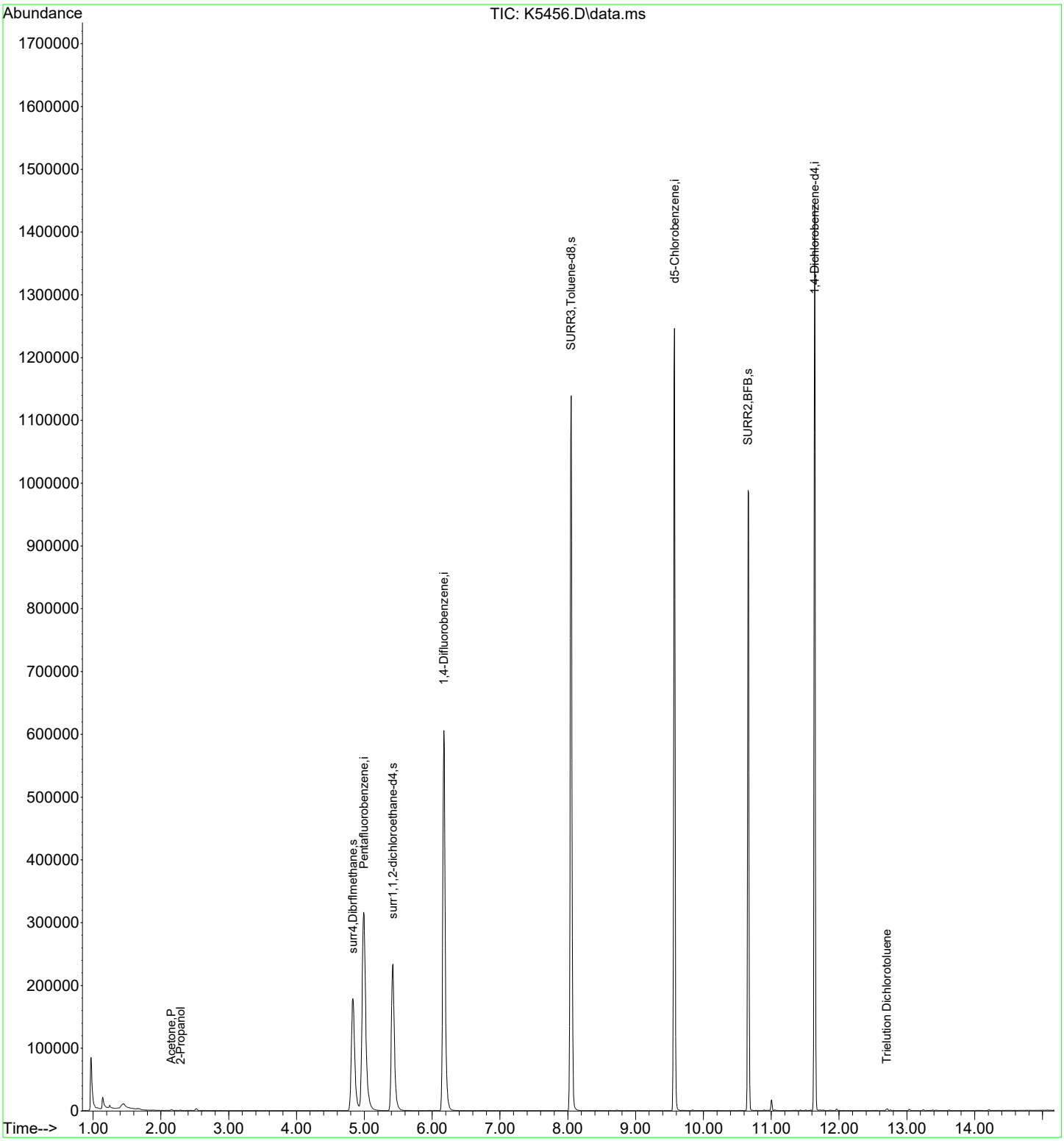
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.995	168	381833	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.172	114	629464	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.573	117	561512	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	260772	50.00	ug/L	# 0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.830	113	193830	49.36	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 98.72%			
47) surr1,1,2-dichloroetha...	5.422	65	266835	49.72	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 99.44%			
64) SURR3,Toluene-d8	8.049	98	730704	50.71	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.42%			
69) SURR2,BFB	10.659	95	279848	49.40	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 98.80%			
Target Compounds						Qvalue
16) Acetone	2.154	43	2083	0.682	ug/L	88
17) 2-Propanol	2.288	45	479	0.795	ug/L #	53
22) Methylene Chloride	2.520	84	1416	Below Cal	#	69
111) Trielution Dichlorotol...	12.701	125	1654	0.223	ug/L	80

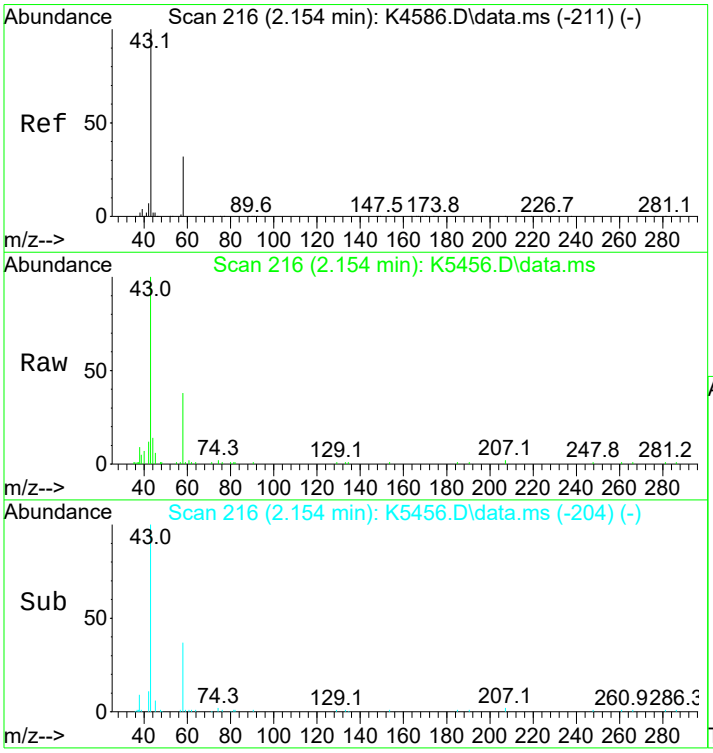
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\090124\
Data File : K5456.D
Acq On : 01 Sep 2024 02:26 pm
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 01 14:43:29 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

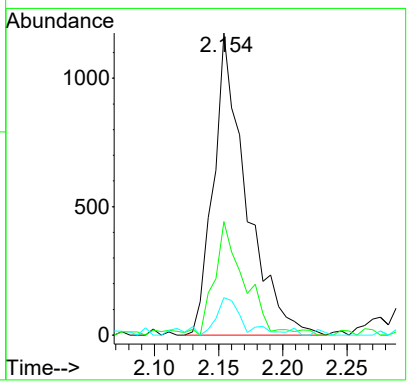


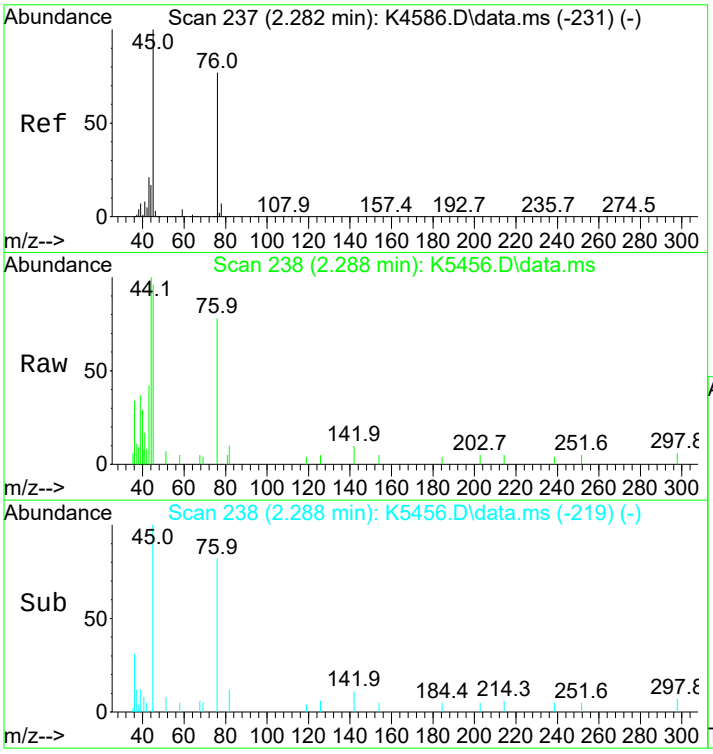


#16
Acetone
Concen: 0.68 ug/L
RT: 2.154 min Scan# 216
Delta R.T. 0.000 min
Lab File: K5456.D
Acq: 01 Sep 2024 02:26 pm

Tgt Ion: 43 Resp: 2083

Ion	Ratio	Lower	Upper
43	100		
58	37.6	11.5	51.5
42	12.4	0.0	27.3

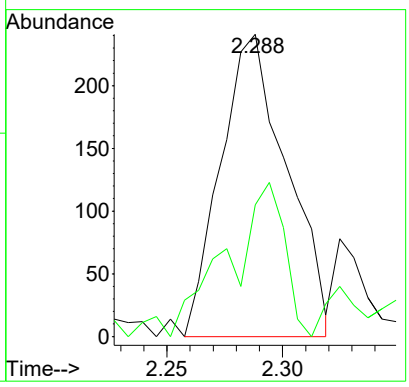


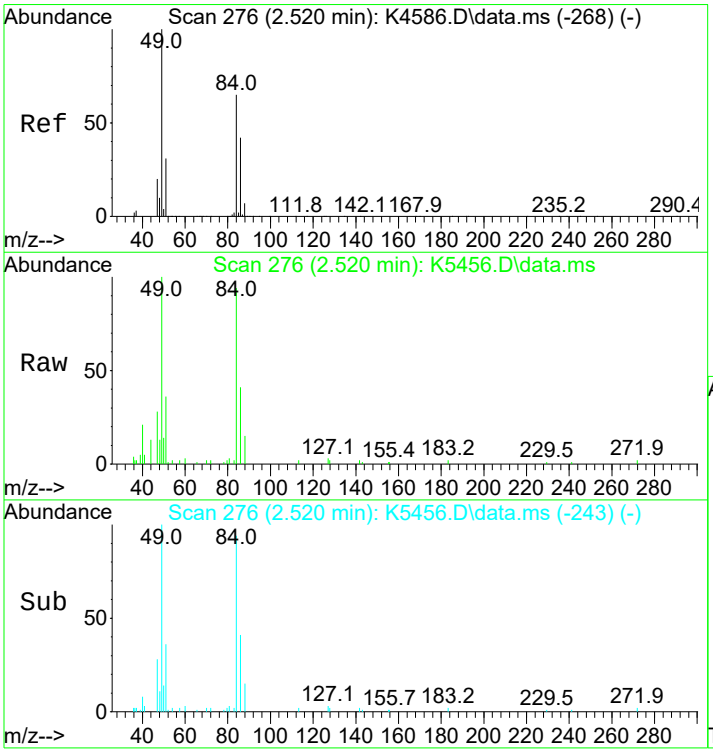


#17
2-Propanol
Concen: 0.79 ug/L
RT: 2.288 min Scan# 238
Delta R.T. 0.006 min
Lab File: K5456.D
Acq: 01 Sep 2024 02:26 pm

Tgt Ion: 45 Resp: 479

Ion	Ratio	Lower	Upper
45	100		
43	43.6	1.4	41.4#

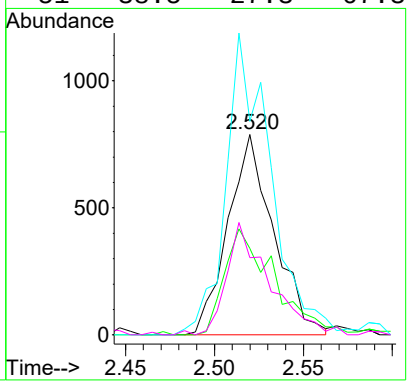


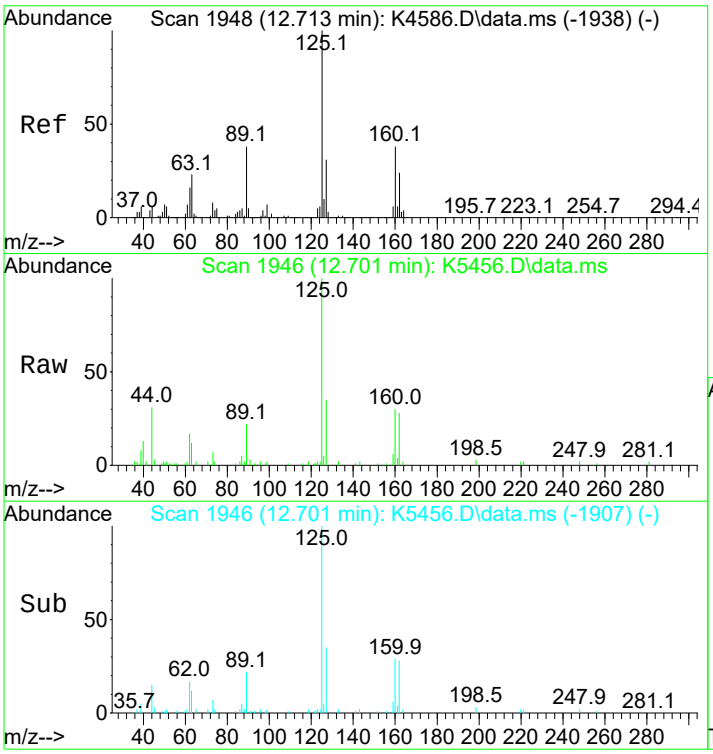


#22
Methylene Chloride
Concen: Below Cal
RT: 2.520 min Scan# 276
Delta R.T. 0.001 min
Lab File: K5456.D
Acq: 01 Sep 2024 02:26 pm

Tgt Ion: 84 Resp: 1416

Ion	Ratio	Lower	Upper
84	100		
86	43.2	44.7	84.7#
49	106.5	134.9	174.9#
51	38.5	27.3	67.3

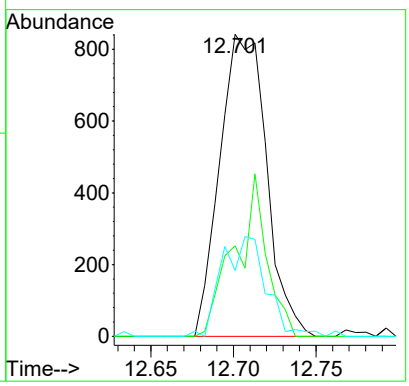




#111
Trielution Dichlorotoluene
Concen: 0.22 ug/L
RT: 12.701 min Scan# 1946
Delta R.T. -0.012 min
Lab File: K5456.D
Acq: 01 Sep 2024 02:26 pm

Tgt Ion:125 Resp: 1654

Ion	Ratio	Lower	Upper
125	100		
160	29.9	18.0	58.0
89	21.9	17.9	57.9



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5389.D
Acq On : 30 Aug 2024 08:41 am
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 30 08:57:19 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.989	168	389081	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.172	114	643725	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.573	117	571471	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	273606	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.830	113	202683	50.47	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 100.94%			
47) surr1,1,2-dichloroetha...	5.416	65	270562	49.30	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 98.60%			
64) SURR3,Toluene-d8	8.049	98	738304	50.10	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 100.20%			
69) SURR2,BFB	10.659	95	287985	49.71	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.42%			
Target Compounds						Qvalue
2) Chlorodifluoromethane	1.081	51	90305	17.055	ug/L	99
3) Dichlorodifluoromethane	1.075	85	95904	19.158	ug/L	97
4) Chloromethane	1.197	50	91451	17.034	ug/L	96
5) Vinyl Chloride	1.264	62	85302	15.743	ug/L	99
6) Bromomethane	1.465	94	42376	19.266	ug/L	97
7) Chloroethane	1.538	64	48905	14.301	ug/L	96
8) Freon 21	1.678	67	108552	15.285	ug/L	98
9) Trichlorofluoromethane	1.721	101	102868	17.563	ug/L	99
10) Diethyl Ether	1.935	59	70858	16.808	ug/L	96
11) Freon 123a	1.941	67	67230	17.013	ug/L	96
12) Freon 123	1.989	83	101348	21.021	ug/L	98
13) Acrolein	2.032	56	37212	59.891	ug/L	100
14) 1,1-Diclethene	2.105	96	57970	17.577	ug/L	94
15) Freon 113	2.111	101	57531	16.725	ug/L	94
16) Acetone	2.154	43	33558	10.776	ug/L	96
17) 2-Propanol	2.276	45	130458	212.413	ug/L	99
18) Iodomethane	2.227	142	103120	20.052	ug/L	95
19) Carbon Disulfide	2.282	76	155053	19.096	ug/L	100
20) Acetonitrile/Allyl Chl...	2.410	41	165431	100.953	ug/L	92
21) Methyl Acetate	2.434	43	71901	13.231	ug/L	98
22) Methylene Chloride	2.520	84	65814	17.621	ug/L	96
23) TBA	2.648	59	233168	204.827	ug/L	99
24) Acrylonitrile	2.758	53	192752	67.804	ug/L	98
25) Methyl-t-Butyl Ether	2.800	73	211913	16.750	ug/L	96
26) trans-1,2-Dichloroethene	2.782	96	59795	16.528	ug/L	96
27) 1,1-Diclethane	3.245	63	131643	17.645	ug/L	99
28) Vinyl Acetate	3.337	86	13877	21.395	ug/L #	67
29) DIPE	3.355	45	233097	17.557	ug/L	92
30) 2-Chloro-1,3-Butadiene	3.355	53	127672	16.870	ug/L	99
31) ETBE	3.849	59	250855	17.904	ug/L	98
32) 2,2-Dichloropropane	4.013	77	96495	19.674	ug/L	97
33) cis-1,2-Dichloroethene	4.019	96	73326	17.422	ug/L	99
34) 2-Butanone	4.080	43	47114	12.678	ug/L	99
35) Propionitrile	4.154	54	78681	61.976	ug/L	96
36) Bromochloromethane	4.379	130	49666	17.910	ug/L	99
37) Methacrylonitrile	4.404	67	33836	14.230	ug/L	94
38) Tetrahydrofuran	4.489	42	27790	11.725	ug/L	95
39) Chloroform	4.550	83	116585	16.811	ug/L	94
40) 1,1,1-Trichloroethane	4.830	97	104729	17.209	ug/L	96

1st FNJ 08/30/24
2nd WR 09/04/24

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5389.D
Acq On : 30 Aug 2024 08:41 am
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 30 08:57:19 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.763	73	190123	17.586	ug/L	97
43) Cyclohexane	4.916	41	64539	17.029	ug/L	90
45) Carbontetrachloride	5.129	117	87723	16.362	ug/L	100
46) 1,1-Dichloropropene	5.147	75	81304	17.199	ug/L	93
48) Benzene	5.495	78	248590	18.056	ug/L	99
49) 1,2-Dichloroethane	5.550	62	117832	17.166	ug/L	98
50) Iso-Butyl Alcohol	5.556	43	70526	210.608	ug/L	96
51) n-Heptane	6.019	43	95043	18.430	ug/L	96
52) 1-Butanol	6.586	56	119046	546.994	ug/L	100
53) Trichloroethene	6.507	130	72245	17.697	ug/L	98
54) Methylcyclohexane	6.745	55	107659	18.536	ug/L	98
55) 1,2-Diclpropane	6.806	63	67996	16.314	ug/L	97
56) Dibromomethane	6.952	93	45195	17.292	ug/L	93
57) 1,4-Dioxane	7.031	88	21899	245.303	ug/L	94
58) Methyl Methacrylate	7.062	69	54826	15.743	ug/L	94
59) Bromodichloromethane	7.196	83	87036	17.726	ug/L	98
60) 2-Nitropropane	7.494	41	45798	26.097	ug/L	99
62) cis-1,3-Dichloropropene	7.751	75	106596	19.061	ug/L	98
63) 4-Methyl-2-pentanone	7.976	43	93291	14.289	ug/L	99
65) Toluene	8.122	91	276655	17.700	ug/L	99
66) trans-1,3-Dichloropropene	8.409	75	101567	18.911	ug/L	98
67) Ethyl Methacrylate	8.561	69	97491	16.392	ug/L	93
68) 1,1,2-Trichloroethane	8.598	97	63888	16.962	ug/L	98
71) Tetrachloroethene	8.726	164	52816	18.742	ug/L	97
72) 2-Hexanone	8.909	43	66419	13.186	ug/L	90
73) 1,3-Dichloropropane	8.769	76	106473	17.269	ug/L	99
74) Dibromochloromethane	9.000	129	70350	18.057	ug/L	98
75) N-Butyl Acetate	9.067	43	136382	14.120	ug/L	99
76) 1,2-Dibromoethane	9.092	107	70089	17.179	ug/L	97
77) 3-Chlorobenzotrifluoride	9.628	180	88123	18.978	ug/L	99
78) Chlorobenzene	9.598	112	185975	17.367	ug/L	100
79) 4-Chlorobenzotrifluoride	9.683	180	78324	18.400	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.689	131	71472	18.524	ug/L	98
81) Ethylbenzene	9.726	106	98539	18.302	ug/L	99
82) (m+p)Xylene	9.836	106	245531	37.045	ug/L	96
83) o-Xylene	10.201	106	119774	18.144	ug/L	99
84) Styrene	10.214	104	203885	18.361	ug/L	99
85) Bromoform	10.366	173	41387	18.916	ug/L	96
86) 2-Chlorobenzotrifluoride	10.451	180	86009	18.281	ug/L	100
87) Isopropylbenzene	10.537	105	303735	17.947	ug/L	99
88) Cyclohexanone	10.604	55	70217	56.160	ug/L	99
89) trans-1,4-Dichloro-2-B...	10.860	53	28150	11.787	ug/L	96
91) 1,1,2,2-Tetrachloroethane	10.805	83	90119	15.738	ug/L	96
92) Bromobenzene	10.780	156	78490	17.983	ug/L	92
93) 1,2,3-Trichloropropane	10.835	110	31405	15.124	ug/L	97
94) n-Propylbenzene	10.896	91	348738	17.589	ug/L	99
95) 2-Chlorotoluene	10.957	91	218436	17.519	ug/L	98
96) 3-Chlorotoluene	11.012	91	224868	17.825	ug/L	98
97) 4-Chlorotoluene	11.049	91	258267	18.008	ug/L	99
98) 1,3,5-Trimethylbenzene	11.055	105	266781	17.767	ug/L	97
99) tert-Butylbenzene	11.323	119	227540	17.755	ug/L	99
100) 1,2,4-Trimethylbenzene	11.366	105	268206	17.618	ug/L	100
101) 3,4-Dichlorobenzotrifl...	11.433	214	58843	17.800	ug/L	94
102) sec-Butylbenzene	11.506	105	317223	17.678	ug/L	99
103) p-Isopropyltoluene	11.634	119	283254	17.949	ug/L	98
104) 1,3-Dclbenz	11.585	146	152104	18.196	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5389.D
Acq On : 30 Aug 2024 08:41 am
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 30 08:57:19 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

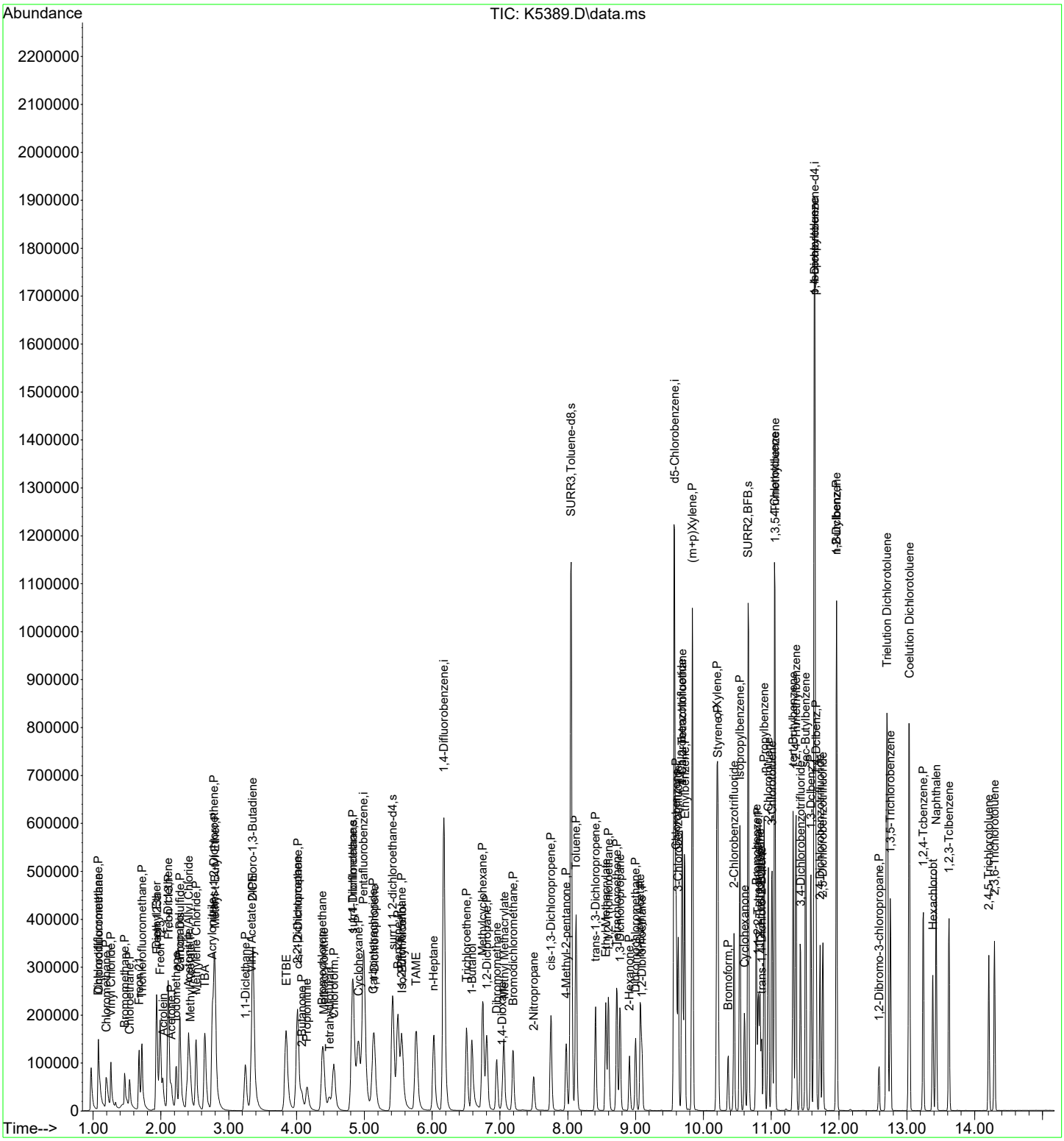
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,4-Dclbenz	11.658	146	153193	18.150	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.719	214	53648	18.430	ug/L	97
107) 2,5-Dichlorobenzotrifl...	11.762	214	59600	18.368	ug/L	97
108) n-Butylbenzene	11.963	91	248547	18.086	ug/L	99
109) 1,2-Dclbenz	11.963	146	144321	17.487	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.591	157	18929	13.799	ug/L	91
111) Trielution Dichlorotol...	12.707	125	406443	52.248	ug/L	97
112) 1,3,5-Trichlorobenzene	12.756	180	93909	17.414	ug/L	99
113) Coelution Dichlorotoluene	13.036	125	292639	34.973	ug/L	95
114) 1,2,4-Tcbenzene	13.243	180	92782	17.744	ug/L	97
115) Hexachlorobt	13.384	225	36616	19.023	ug/L	99
116) Naphthalen	13.432	128	282511	14.287	ug/L	99
117) 1,2,3-Tclbenzene	13.621	180	87140	16.911	ug/L	97
118) 2,4,5-Trichlorotoluene	14.207	159	64298	15.664	ug/L	97
119) 2,3,6-Trichlorotoluene	14.292	159	64060	16.868	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st FN 08/30/24
2nd 09/04/24

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5389.D
Acq On : 30 Aug 2024 08:41 am
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 30 08:57:19 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5422.D
Acq On : 31 Aug 2024 11:32 am
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 31 11:48:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.989	168	386277	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.172	114	643870	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.573	117	580444	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	275954	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.824	113	209875	52.25	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 104.50%			
47) surr1,1,2-dichloroetha...	5.416	65	277224	50.50	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 101.00%			
64) SURR3,Toluene-d8	8.049	98	777739	52.77	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 105.54%			
69) SURR2,BFB	10.659	95	300500	51.85	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 103.70%			
Target Compounds						Qvalue
2) Chlorodifluoromethane	1.081	51	97545	18.557	ug/L	96
3) Dichlorodifluoromethane	1.075	85	116661	23.474	ug/L	95
4) Chloromethane	1.191	50	107648	20.196	ug/L	99
5) Vinyl Chloride	1.264	62	103275	19.198	ug/L	99
6) Bromomethane	1.465	94	36699	16.686	ug/L	95
7) Chloroethane	1.538	64	55911	16.468	ug/L	98
8) Freon 21	1.678	67	116509	16.524	ug/L	99
9) Trichlorofluoromethane	1.715	101	124112	21.344	ug/L	98
10) Diethyl Ether	1.935	59	84501	20.189	ug/L	97
11) Freon 123a	1.941	67	75665	19.287	ug/L	99
12) Freon 123	1.989	83	113268	23.664	ug/L	98
13) Acrolein	2.026	56	44582	72.274	ug/L	97
14) 1,1-Diclethene	2.105	96	70305	21.472	ug/L	94
15) Freon 113	2.111	101	70180	20.551	ug/L	94
16) Acetone	2.154	43	38692	12.514	ug/L	99
17) 2-Propanol	2.276	45	170953	280.368	ug/L	99
18) Iodomethane	2.221	142	100651	19.714	ug/L	94
19) Carbon Disulfide	2.276	76	173753	21.554	ug/L	99
20) Acetonitrile/Allyl Chl...	2.410	41	199594	122.685	ug/L	94
21) Methyl Acetate	2.434	43	82863	15.359	ug/L	96
22) Methylene Chloride	2.520	84	76676	20.821	ug/L	97
23) TBA	2.648	59	325374	287.900	ug/L	100
24) Acrylonitrile	2.758	53	242815	86.035	ug/L	100
25) Methyl-t-Butyl Ether	2.794	73	250504	19.944	ug/L	97
26) trans-1,2-Dichloroethene	2.782	96	73265	20.399	ug/L	97
27) 1,1-Diclethane	3.245	63	157064	21.206	ug/L	97
28) Vinyl Acetate	3.337	86	15402	23.748	ug/L #	81
29) DIPE	3.361	45	259020	19.652	ug/L	96
30) 2-Chloro-1,3-Butadiene	3.355	53	139492	18.566	ug/L	99
31) ETBE	3.849	59	279493	20.093	ug/L	99
32) 2,2-Dichloropropane	4.001	77	112757	23.156	ug/L	97
33) cis-1,2-Dichloroethene	4.013	96	85624	20.492	ug/L	98
34) 2-Butanone	4.080	43	55385	15.012	ug/L	98
35) Propionitrile	4.154	54	103201	81.880	ug/L	93
36) Bromochloromethane	4.373	130	57927	21.040	ug/L	98
37) Methacrylonitrile	4.391	67	43363	18.369	ug/L	99
38) Tetrahydrofuran	4.483	42	37030	15.737	ug/L	100
39) Chloroform	4.550	83	136808	19.870	ug/L	99
40) 1,1,1-Trichloroethane	4.824	97	124648	20.631	ug/L	97

1st FJ 08/31/24
2nd AM 09/03/24

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5422.D
Acq On : 31 Aug 2024 11:32 am
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 31 11:48:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.763	73	215712	20.098	ug/L	96
43) Cyclohexane	4.910	41	69631	18.368	ug/L	89
45) Carbontetrachloride	5.123	117	108741	20.278	ug/L	96
46) 1,1-Dichloropropene	5.141	75	97677	20.658	ug/L	96
48) Benzene	5.495	78	293675	21.326	ug/L	99
49) 1,2-Dichloroethane	5.544	62	136984	19.952	ug/L	98
50) Iso-Butyl Alcohol	5.562	43	102330	305.514	ug/L	99
51) n-Heptane	6.025	43	111909	21.696	ug/L	99
52) 1-Butanol	6.586	56	164516	741.566	ug/L	97
53) Trichloroethene	6.507	130	82991	20.325	ug/L	95
54) Methylcyclohexane	6.745	55	115895	19.949	ug/L	94
55) 1,2-Diclpropane	6.806	63	80779	19.377	ug/L	98
56) Dibromomethane	6.952	93	53830	20.591	ug/L	94
57) 1,4-Dioxane	7.037	88	29226	327.303	ug/L	97
58) Methyl Methacrylate	7.056	69	67405	19.351	ug/L	98
59) Bromodichloromethane	7.190	83	102377	20.845	ug/L	99
60) 2-Nitropropane	7.495	41	59433	33.859	ug/L	99
62) cis-1,3-Dichloropropene	7.751	75	125027	22.352	ug/L	98
63) 4-Methyl-2-pentanone	7.976	43	110614	16.938	ug/L	99
65) Toluene	8.122	91	323821	20.713	ug/L	99
66) trans-1,3-Dichloropropene	8.409	75	119545	22.253	ug/L	99
67) Ethyl Methacrylate	8.561	69	116860	19.644	ug/L	95
68) 1,1,2-Trichloroethane	8.598	97	78337	20.794	ug/L	99
71) Tetrachloroethene	8.720	164	60315	21.073	ug/L	97
72) 2-Hexanone	8.909	43	80738	15.781	ug/L	95
73) 1,3-Dichloropropane	8.769	76	125822	20.092	ug/L	96
74) Dibromochloromethane	9.000	129	84236	21.287	ug/L	96
75) N-Butyl Acetate	9.067	43	157655	16.071	ug/L	97
76) 1,2-Dibromoethane	9.092	107	83613	20.177	ug/L	97
77) 3-Chlorobenzotrifluoride	9.628	180	93383	19.800	ug/L	98
78) Chlorobenzene	9.598	112	217855	20.030	ug/L	99
79) 4-Chlorobenzotrifluoride	9.683	180	85158	19.696	ug/L	98
80) 1,1,1,2-Tetrachloroethane	9.689	131	84991	21.687	ug/L	97
81) Ethylbenzene	9.726	106	117510	21.488	ug/L	98
82) (m+p)Xylene	9.836	106	287365	42.686	ug/L	96
83) o-Xylene	10.195	106	139816	20.853	ug/L	98
84) Styrene	10.214	104	240036	21.282	ug/L	98
85) Bromoform	10.366	173	51126	22.816	ug/L	100
86) 2-Chlorobenzotrifluoride	10.451	180	92313	19.317	ug/L	99
87) Isopropylbenzene	10.537	105	360592	20.977	ug/L	100
88) Cyclohexanone	10.604	55	98527	77.584	ug/L	99
89) trans-1,4-Dichloro-2-B...	10.860	53	33733	13.906	ug/L	98
91) 1,1,2,2-Tetrachloroethane	10.805	83	107694	18.647	ug/L	98
92) Bromobenzene	10.781	156	88972	20.212	ug/L	94
93) 1,2,3-Trichloropropane	10.835	110	38885	18.567	ug/L	94
94) n-Propylbenzene	10.896	91	414828	20.745	ug/L	99
95) 2-Chlorotoluene	10.957	91	255579	20.323	ug/L	98
96) 3-Chlorotoluene	11.012	91	246358	19.363	ug/L	97
97) 4-Chlorotoluene	11.049	91	302933	20.943	ug/L	99
98) 1,3,5-Trimethylbenzene	11.055	105	311045	20.538	ug/L	98
99) tert-Butylbenzene	11.323	119	267475	20.693	ug/L	98
100) 1,2,4-Trimethylbenzene	11.366	105	313356	20.409	ug/L	100
101) 3,4-Dichlorobenzotrifl...	11.433	214	62613	18.780	ug/L	95
102) sec-Butylbenzene	11.506	105	375344	20.739	ug/L	99
103) p-Isopropyltoluene	11.634	119	333577	20.958	ug/L	98
104) 1,3-Dclbenz	11.585	146	175740	20.845	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5422.D
Acq On : 31 Aug 2024 11:32 am
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 31 11:48:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

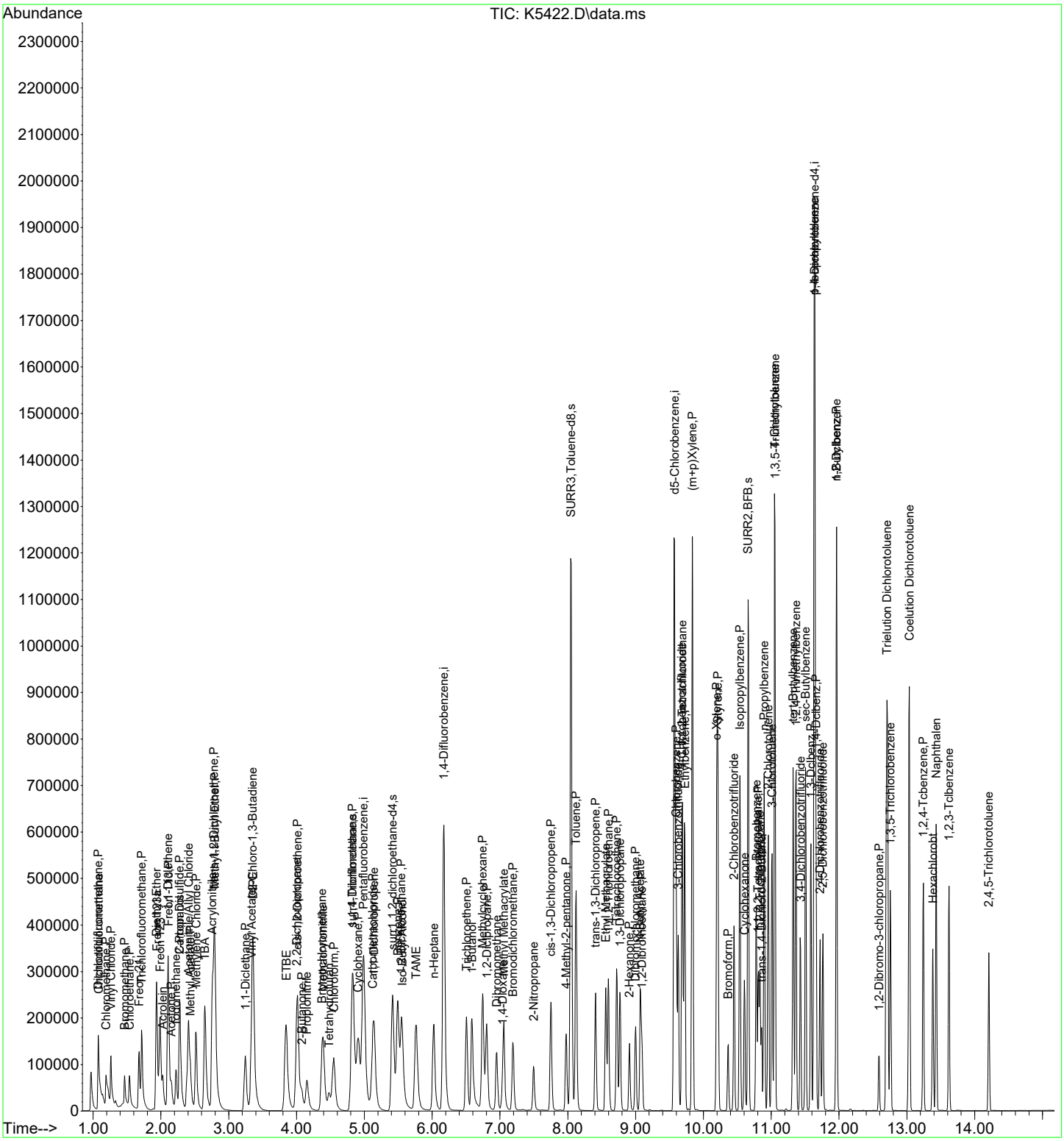
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,4-Dclbenz	11.658	146	180117	21.159	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.719	214	59364	20.220	ug/L	95
107) 2,5-Dichlorobenzotrifl...	11.762	214	63524	19.411	ug/L	97
108) n-Butylbenzene	11.963	91	291652	21.042	ug/L	98
109) 1,2-Dclbenz	11.963	146	169698	20.387	ug/L	97
110) 1,2-Dibromo-3-chloropr...	12.591	157	24274	17.418	ug/L	90
111) Trielution Dichlorotol...	12.707	125	434479	55.377	ug/L	99
112) 1,3,5-Trichlorobenzene	12.756	180	102009	18.755	ug/L	99
113) Coelution Dichlorotoluene	13.036	125	311551	36.916	ug/L	96
114) 1,2,4-Tcbenzene	13.243	180	107594	20.402	ug/L	97
115) Hexachlorobt	13.384	225	45303	23.336	ug/L	92
116) Naphthalen	13.432	128	351842	17.642	ug/L	99
117) 1,2,3-Tclbenzene	13.621	180	101506	19.531	ug/L	95
118) 2,4,5-Trichlorotoluene	14.207	159	70664	17.069	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st FJ 08/31/24
2nd AM 09/03/24

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5422.D
Acq On : 31 Aug 2024 11:32 am
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 31 11:48:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\090124\
Data File : K5453.D
Acq On : 01 Sep 2024 01:06 pm
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 01 13:22:36 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.989	168	383031	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.172	114	632520	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.573	117	571125	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	271079	50.00	ug/L	# 0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.830	113	200822	50.90	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 101.80%			
47) surr1,1,2-dichloroetha...	5.416	65	263643	48.89	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 97.78%			
64) SURR3,Toluene-d8	8.043	98	739639	51.08	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.16%			
69) SURR2,BFB	10.659	95	283630	49.82	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.64%			
Target Compounds						Qvalue
2) Chlorodifluoromethane	1.081	51	94115	18.056	ug/L	98
3) Dichlorodifluoromethane	1.075	85	105773	21.463	ug/L	98
4) Chloromethane	1.191	50	101965	19.292	ug/L	94
5) Vinyl Chloride	1.264	62	95082	17.825	ug/L	98
6) Bromomethane	1.471	94	38066	17.494	ug/L	96
7) Chloroethane	1.538	64	51959	15.434	ug/L	98
8) Freon 21	1.678	67	113587	16.246	ug/L	99
9) Trichlorofluoromethane	1.721	101	111277	19.299	ug/L	98
10) Diethyl Ether	1.935	59	78878	19.006	ug/L	98
11) Freon 123a	1.941	67	72493	18.635	ug/L	93
12) Freon 123	1.989	83	106310	22.398	ug/L	100
13) Acrolein	2.026	56	42364	69.260	ug/L	99
14) 1,1-Diclethene	2.105	96	63237	19.477	ug/L	98
15) Freon 113	2.111	101	64858	19.153	ug/L	94
16) Acetone	2.154	43	34755	11.336	ug/L	94
17) 2-Propanol	2.276	45	158651	262.397	ug/L	96
18) Iodomethane	2.227	142	95239	18.812	ug/L	94
19) Carbon Disulfide	2.282	76	164324	20.557	ug/L	100
20) Acetonitrile/Allyl Chl...	2.410	41	186364	115.524	ug/L	93
21) Methyl Acetate	2.434	43	80739	15.092	ug/L	96
22) Methylene Chloride	2.520	84	72573	19.837	ug/L	99
23) TBA	2.648	59	289627	258.442	ug/L	97
24) Acrylonitrile	2.758	53	223233	79.767	ug/L	97
25) Methyl-t-Butyl Ether	2.800	73	234120	18.797	ug/L	97
26) trans-1,2-Dichloroethene	2.788	96	68932	19.355	ug/L	95
27) 1,1-Diclethane	3.245	63	142677	19.426	ug/L	97
28) Vinyl Acetate	3.337	86	15572	24.182	ug/L #	81
29) DIPE	3.361	45	263358	20.150	ug/L	97
30) 2-Chloro-1,3-Butadiene	3.355	53	131924	17.708	ug/L	91
31) ETBE	3.843	59	290360	21.051	ug/L	99
32) 2,2-Dichloropropane	4.007	77	109946	22.770	ug/L	98
33) cis-1,2-Dichloroethene	4.020	96	79611	19.214	ug/L	99
34) 2-Butanone	4.074	43	54595	14.924	ug/L	97
35) Propionitrile	4.154	54	93557	74.858	ug/L	99
36) Bromochloromethane	4.379	130	53981	19.773	ug/L	97
37) Methacrylonitrile	4.398	67	39352	16.811	ug/L	99
38) Tetrahydrofuran	4.477	42	34947	14.977	ug/L	97
39) Chloroform	4.550	83	129730	19.002	ug/L	98
40) 1,1,1-Trichloroethane	4.830	97	117362	19.590	ug/L	95

1st FW 09/01/24
2nd AM 09/03/24

Data Path : I:\ACQUDATA\MSVOA17\Data\090124\
Data File : K5453.D
Acq On : 01 Sep 2024 01:06 pm
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 01 13:22:36 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) TAME	5.769	73	217736	20.458	ug/L		94
43) Cyclohexane	4.910	41	67853	18.220	ug/L		89
45) Carbontetrachloride	5.129	117	100288	19.038	ug/L		99
46) 1,1-Dichloropropene	5.141	75	88887	19.136	ug/L		97
48) Benzene	5.495	78	273176	20.193	ug/L		99
49) 1,2-Dichloroethane	5.544	62	127861	18.957	ug/L		99
50) Iso-Butyl Alcohol	5.562	43	92371	280.729	ug/L		97
51) n-Heptane	6.019	43	107345	21.185	ug/L		98
52) 1-Butanol	6.586	56	158550	728.283	ug/L		94
53) Trichloroethene	6.507	130	79394	19.793	ug/L		96
54) Methylcyclohexane	6.745	55	113645	19.913	ug/L		97
55) 1,2-Diclpropane	6.806	63	75555	18.449	ug/L		97
56) Dibromomethane	6.952	93	49777	19.382	ug/L		91
57) 1,4-Dioxane	7.031	88	25174	286.983	ug/L		97
58) Methyl Methacrylate	7.056	69	61994	18.117	ug/L		99
59) Bromodichloromethane	7.190	83	97316	20.170	ug/L		98
60) 2-Nitropropane	7.495	41	55404	32.130	ug/L		97
61) 2-Chloroethylvinyl Ether	7.610	63	535	0.404	ug/L	#	58
62) cis-1,3-Dichloropropene	7.751	75	117584	21.399	ug/L		98
63) 4-Methyl-2-pentanone	7.976	43	102951	16.048	ug/L		97
65) Toluene	8.122	91	303537	19.764	ug/L		100
66) trans-1,3-Dichloropropene	8.409	75	112953	21.403	ug/L		97
67) Ethyl Methacrylate	8.561	69	108947	18.642	ug/L		90
68) 1,1,2-Trichloroethane	8.598	97	72608	19.619	ug/L		99
71) Tetrachloroethene	8.726	164	57430	20.392	ug/L		98
72) 2-Hexanone	8.909	43	75020	14.903	ug/L		96
73) 1,3-Dichloropropane	8.769	76	116212	18.860	ug/L		99
74) Dibromochloromethane	9.000	129	79942	20.532	ug/L		96
75) N-Butyl Acetate	9.067	43	152655	15.815	ug/L		98
76) 1,2-Dibromoethane	9.092	107	77511	19.010	ug/L		97
77) 3-Chlorobenzotrifluoride	9.628	180	100194	21.591	ug/L		99
78) Chlorobenzene	9.598	112	201855	18.862	ug/L		98
79) 4-Chlorobenzotrifluoride	9.683	180	91349	21.473	ug/L		97
80) 1,1,1,2-Tetrachloroethane	9.689	131	79201	20.540	ug/L		98
81) Ethylbenzene	9.720	106	109837	20.412	ug/L		99
82) (m+p)Xylene	9.836	106	272056	41.072	ug/L		97
83) o-Xylene	10.201	106	132306	20.055	ug/L		99
84) Styrene	10.214	104	228553	20.595	ug/L		98
85) Bromoform	10.366	173	47444	21.574	ug/L		100
86) 2-Chlorobenzotrifluoride	10.451	180	96519	20.527	ug/L		99
87) Isopropylbenzene	10.537	105	336077	19.870	ug/L		99
88) Cyclohexanone	10.604	55	86350	69.105	ug/L		99
89) trans-1,4-Dichloro-2-B...	10.854	53	31859	13.348	ug/L		94
91) 1,1,2,2-Tetrachloroethane	10.811	83	101245	17.845	ug/L		96
92) Bromobenzene	10.781	156	85417	19.753	ug/L		91
93) 1,2,3-Trichloropropane	10.835	110	35774	17.389	ug/L		93
94) n-Propylbenzene	10.896	91	388002	19.752	ug/L		99
95) 2-Chlorotoluene	10.957	91	241029	19.511	ug/L		99
96) 3-Chlorotoluene	11.012	91	256554	20.527	ug/L		98
97) 4-Chlorotoluene	11.049	91	289085	20.345	ug/L		99
98) 1,3,5-Trimethylbenzene	11.055	105	295348	19.852	ug/L		99
99) tert-Butylbenzene	11.323	119	249660	19.663	ug/L		99
100) 1,2,4-Trimethylbenzene	11.366	105	296017	19.627	ug/L		99
101) 3,4-Dichlorobenzotrifl...	11.433	214	67163	20.507	ug/L		96
102) sec-Butylbenzene	11.506	105	356285	20.040	ug/L		99
103) p-Isopropyltoluene	11.634	119	318291	20.357	ug/L		98

1st FJ 09/01/24
2nd AM 09/03/24

Data Path : I:\ACQUDATA\MSVOA17\Data\090124\
Data File : K5453.D
Acq On : 01 Sep 2024 01:06 pm
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 01 13:22:36 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

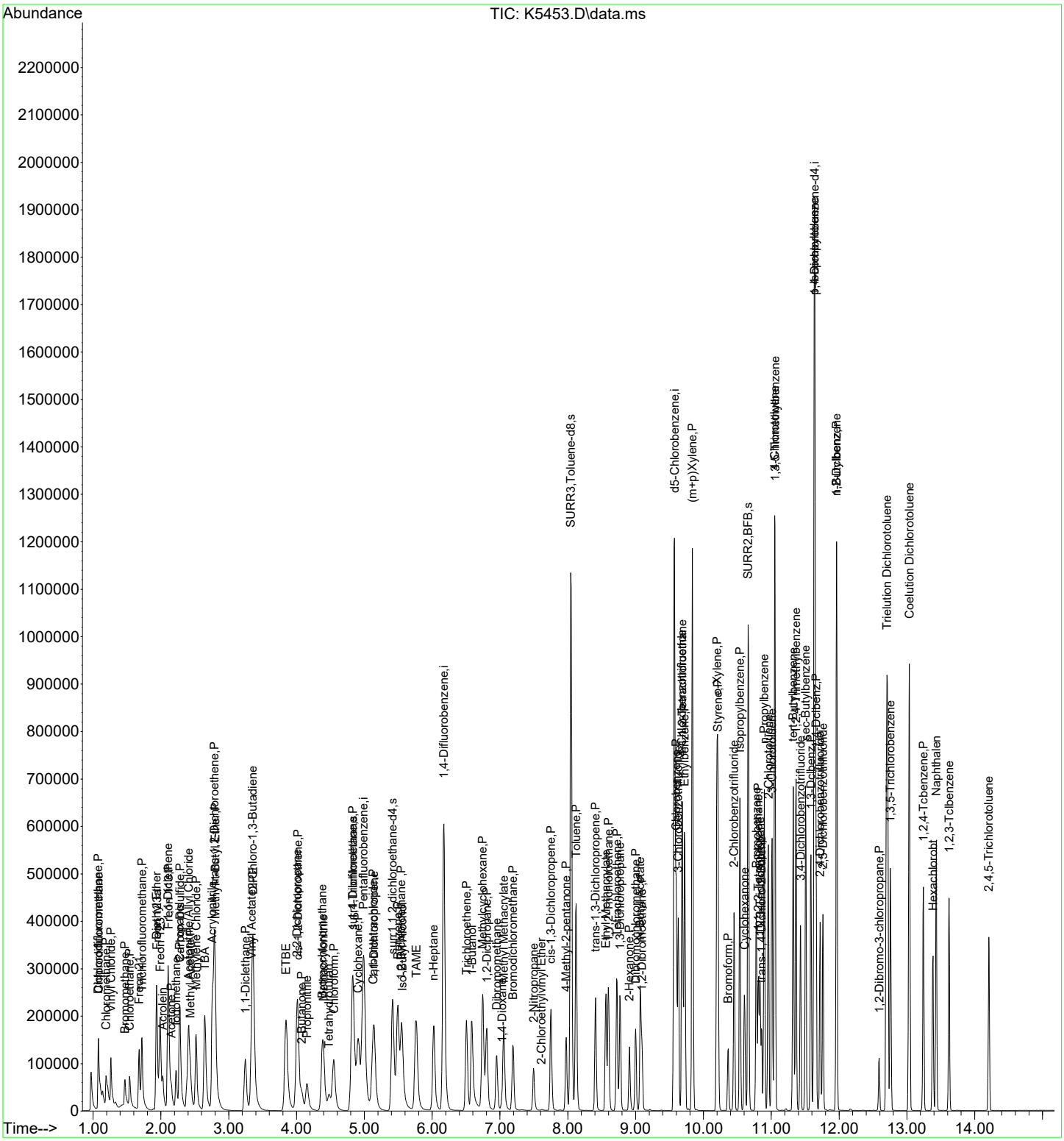
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.585	146	166703	20.128	ug/L	97
105) 1,4-Dclbenz	11.658	146	170649	20.407	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.719	214	61965	21.485	ug/L	98
107) 2,5-Dichlorobenzotrifl...	11.762	214	67927	21.129	ug/L	98
108) n-Butylbenzene	11.963	91	275131	20.207	ug/L	100
109) 1,2-Dclbenz	11.963	146	159290	19.480	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.591	157	21837	15.994	ug/L	94
111) Trielution Dichlorotol...	12.707	125	459999	59.684	ug/L	96
112) 1,3,5-Trichlorobenzene	12.756	180	109414	20.478	ug/L	99
113) Coelution Dichlorotoluene	13.036	125	331624	40.001	ug/L	96
114) 1,2,4-Tcbenzene	13.243	180	101168	19.528	ug/L	98
115) Hexachlorobt	13.384	225	41657	21.844	ug/L	94
116) Naphthalen	13.432	128	326367	16.659	ug/L	99
117) 1,2,3-Tclbenzene	13.621	180	95982	18.800	ug/L	97
118) 2,4,5-Trichlorotoluene	14.207	159	76464	18.802	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st FJ 09/01/24
2nd AM 09/03/24

Data Path : I:\ACQUDATA\MSVOA17\Data\090124\
Data File : K5453.D
Acq On : 01 Sep 2024 01:06 pm
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 4 Sample Multiplier: 1

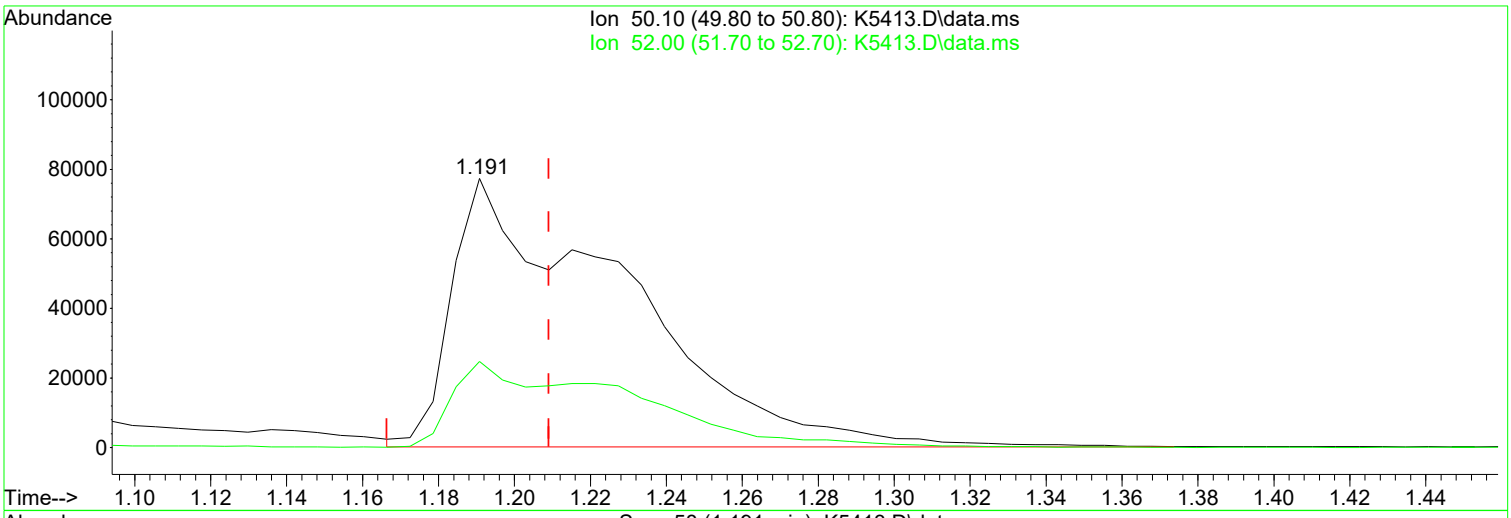
Quant Time: Sep 01 13:22:36 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5413.D
Acq On : 30 Aug 2024 06:18 pm
Operator : F.NAEGLER
Sample : R2408139-001MS
Misc : CEC 26473 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Aug 31 09:40:41 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration



TIC: K5413.D\data.ms

(4) Chloromethane (P)

1.191min (-0.018) 49.11 ug/L m

response 246171

Ion	Exp%	Act%
50.10	100.00	100.00
52.00	34.50	32.02
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

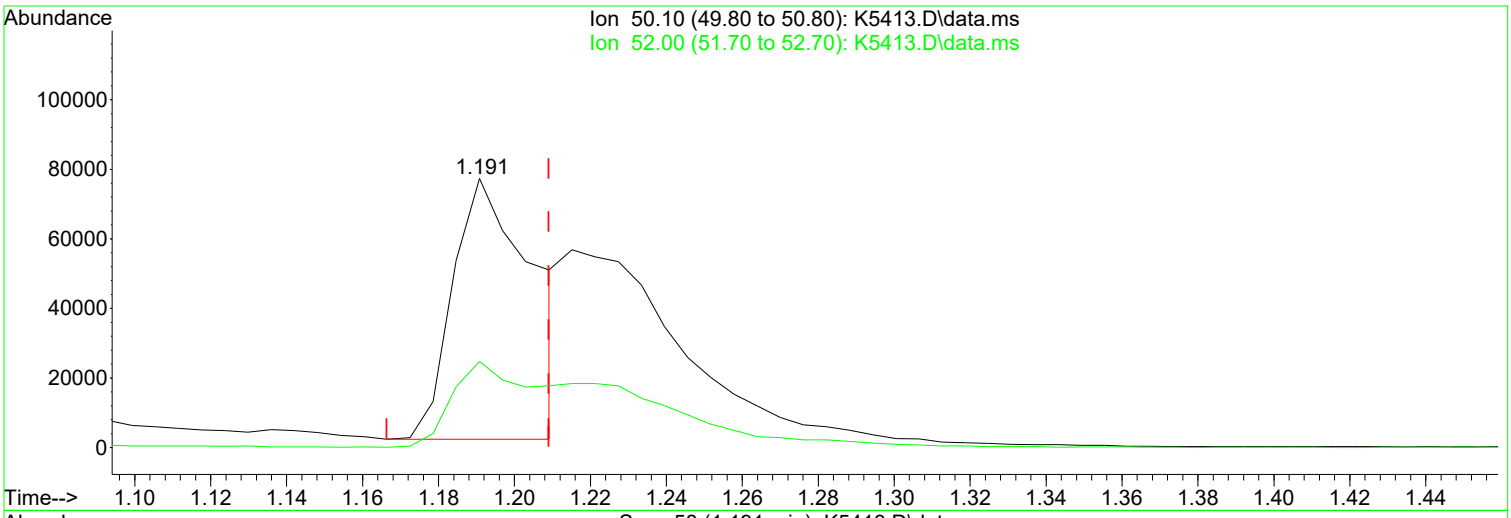
Poor integration.

09/04/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5413.D
Acq On : 30 Aug 2024 06:18 pm
Operator : F.NAEGLER
Sample : R2408139-001MS
Misc : CEC 26473 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Aug 31 09:40:41 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration



TIC: K5413.D\data.ms

(4) Chloromethane (P)

1.191min (-0.018) 21.69 ug/L

response 108722

Ion	Exp%	Act%
50.10	100.00	100.00
52.00	34.50	32.02
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/04/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5413.D
Acq On : 30 Aug 2024 06:18 pm
Operator : F.NAEGLER
Sample : R2408139-001MS
Misc : CEC 26473 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Aug 31 09:40:41 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.995	168	363267	50.00	ug/L		0.00
42) 1,4-Difluorobenzene	6.178	114	603417	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.573	117	542347	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	258347	50.00	ug/L		0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.836	113	195822	52.02	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 104.04%				
47) surr1,1,2-dichloroetha...	5.422	65	257356	50.02	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.04%				
64) SURR3,Toluene-d8	8.049	98	715527	51.80	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 103.60%				
69) SURR2,BFB	10.659	95	280906	51.72	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 103.44%				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.081	51	230971	46.722	ug/L		99
3) Dichlorodifluoromethane	1.075	85	251354	53.780	ug/L		100
4) Chloromethane	1.191	50	246171m	49.111	ug/L		
5) Vinyl Chloride	1.264	62	235453	46.542	ug/L		95
6) Bromomethane	1.465	94	43253	21.168	ug/L		97
7) Chloroethane	1.532	64	140044	43.862	ug/L		99
8) Freon 21	1.672	67	276149	41.647	ug/L		100
9) Trichlorofluoromethane	1.715	101	268245	49.053	ug/L		99
10) Diethyl Ether	1.935	59	180271	45.799	ug/L		99
11) Freon 123a	1.935	67	172034	46.629	ug/L		99
12) Freon 123	1.989	83	261704	58.138	ug/L		98
13) Acrolein	2.026	56	99064	170.769	ug/L		99
14) 1,1-Diclethene	2.099	96	152337	49.473	ug/L		98
15) Freon 113	2.105	101	144508	44.997	ug/L		95
16) Acetone	2.154	43	108034	37.155	ug/L		99
17) 2-Propanol	2.288	45	489872	854.294	ug/L		98
18) Iodomethane	2.221	142	190340	39.641	ug/L		95
19) Carbon Disulfide	2.276	76	390948	51.570	ug/L		99
20) Acetonitrile/Allyl Chl...	2.404	41	455597	297.781	ug/L		94
21) Methyl Acetate	2.434	43	181383	35.749	ug/L		98
22) Methylene Chloride	2.520	84	162693	47.925	ug/L		98
23) TBA	2.654	59	900538	847.294	ug/L		99
24) Acrylonitrile	2.758	53	576297	217.129	ug/L		100
25) Methyl-t-Butyl Ether	2.800	73	534123	45.217	ug/L		97
26) trans-1,2-Dichloroethene	2.782	96	159331	47.171	ug/L		96
27) 1,1-Diclethane	3.245	63	339266	48.706	ug/L		98
28) Vinyl Acetate	3.337	86	29797	45.991	ug/L	#	67
29) DIPE	3.361	45	588028	47.439	ug/L		96
30) 2-Chloro-1,3-Butadiene	3.355	53	319352	45.197	ug/L		95
31) ETBE	3.849	59	636156	48.630	ug/L		99
32) 2,2-Dichloropropane	4.007	77	195192	42.624	ug/L		99
33) cis-1,2-Dichloroethene	4.020	96	211797	53.899	ug/L		95
34) 2-Butanone	4.074	43	144314	41.595	ug/L		98
35) Propionitrile	4.160	54	250496	211.333	ug/L		100
36) Bromochloromethane	4.379	130	121009	46.737	ug/L		94
37) Methacrylonitrile	4.404	67	99116	44.645	ug/L		95
38) Tetrahydrofuran	4.483	42	91637	41.410	ug/L		97
39) Chloroform	4.550	83	297813	45.995	ug/L		98
40) 1,1,1-Trichloroethane	4.830	97	275466	48.482	ug/L		98

1st FNJ 09/04/24
2nd MR 09/04/24

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5413.D
Acq On : 30 Aug 2024 06:18 pm
Operator : F.NAEGLER
Sample : R2408139-001MS
Misc : CEC 26473 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Aug 31 09:40:41 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.763	73	485399	48.089	ug/L	96
43) Cyclohexane	4.916	41	157783	44.412	ug/L	93
45) Carbontetrachloride	5.129	117	238846	47.527	ug/L	99
46) 1,1-Dichloropropene	5.147	75	207694	46.871	ug/L	97
48) Benzene	5.495	78	632712	49.026	ug/L	99
49) 1,2-Dichloroethane	5.544	62	288105	44.775	ug/L	100
50) Iso-Butyl Alcohol	5.562	43	302696	964.306	ug/L	98
51) n-Heptane	6.025	43	193751	40.081	ug/L	97
52) 1-Butanol	6.586	56	370582	1694.003	ug/L	100
53) Trichloroethene	6.507	130	185192	48.394	ug/L	97
54) Methylcyclohexane	6.751	55	251920	46.271	ug/L	100
55) 1,2-Diclpropane	6.806	63	172082	44.046	ug/L	98
56) Dibromomethane	6.952	93	114260	46.636	ug/L	97
57) 1,4-Dioxane	7.037	88	75756	905.270	ug/L	99
58) Methyl Methacrylate	7.062	69	154486	47.323	ug/L	98
59) Bromodichloromethane	7.196	83	220223	47.847	ug/L	99
60) 2-Nitropropane	7.501	41	147624	89.741	ug/L	95
62) cis-1,3-Dichloropropene	7.751	75	258775	49.365	ug/L	98
63) 4-Methyl-2-pentanone	7.976	43	281635	46.017	ug/L	96
65) Toluene	8.122	91	699023	47.710	ug/L	99
66) trans-1,3-Dichloropropene	8.409	75	251089	49.873	ug/L	99
67) Ethyl Methacrylate	8.561	69	264321	47.410	ug/L	99
68) 1,1,2-Trichloroethane	8.598	97	165365	46.837	ug/L	99
71) Tetrachloroethene	8.726	164	129140	48.288	ug/L	97
72) 2-Hexanone	8.909	43	212971	44.552	ug/L	96
73) 1,3-Dichloropropane	8.775	76	267844	45.776	ug/L	97
74) Dibromochloromethane	9.000	129	183194	49.547	ug/L	99
75) N-Butyl Acetate	9.073	43	342086	37.320	ug/L	99
76) 1,2-Dibromoethane	9.098	107	180887	46.716	ug/L	99
77) 3-Chlorobenzotrifluoride	9.628	180	211493	47.992	ug/L	98
78) Chlorobenzene	9.598	112	460069	45.271	ug/L	100
79) 4-Chlorobenzotrifluoride	9.689	180	190924	47.260	ug/L	98
80) 1,1,1,2-Tetrachloroethane	9.689	131	181451	49.554	ug/L	100
81) Ethylbenzene	9.726	106	247294	48.396	ug/L	99
82) (m+p)Xylene	9.842	106	615608	97.868	ug/L	99
83) o-Xylene	10.201	106	298911	47.712	ug/L	99
84) Styrene	10.214	104	511219	48.510	ug/L	96
85) Bromoform	10.366	173	114731	51.869	ug/L	99
86) 2-Chlorobenzotrifluoride	10.451	180	211326	47.328	ug/L	98
87) Isopropylbenzene	10.537	105	771274	48.020	ug/L	99
88) Cyclohexanone	10.604	55	260043	219.152	ug/L	100
89) trans-1,4-Dichloro-2-B...	10.860	53	73012	32.213	ug/L	96
91) 1,1,2,2-Tetrachloroethane	10.811	83	245648	45.431	ug/L	100
92) Bromobenzene	10.780	156	191549	46.479	ug/L	94
93) 1,2,3-Trichloropropane	10.835	110	88708	45.244	ug/L	99
94) n-Propylbenzene	10.896	91	877750	46.886	ug/L	98
95) 2-Chlorotoluene	10.957	91	545270	46.314	ug/L	98
96) 3-Chlorotoluene	11.012	91	558768	46.910	ug/L	99
97) 4-Chlorotoluene	11.055	91	633582	46.786	ug/L	98
98) 1,3,5-Trimethylbenzene	11.055	105	650637	45.889	ug/L	99
99) tert-Butylbenzene	11.323	119	567943	46.934	ug/L	99
100) 1,2,4-Trimethylbenzene	11.366	105	646398	44.970	ug/L	98
101) 3,4-Dichlorobenzotrifl...	11.433	214	135594	43.441	ug/L	94
102) sec-Butylbenzene	11.506	105	777107	45.864	ug/L	99
103) p-Isopropyltoluene	11.634	119	686435	46.067	ug/L	98
104) 1,3-Dclbenz	11.585	146	364853	46.225	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5413.D
Acq On : 30 Aug 2024 06:18 pm
Operator : F.NAEGLER
Sample : R2408139-001MS
Misc : CEC 26473 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Aug 31 09:40:41 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

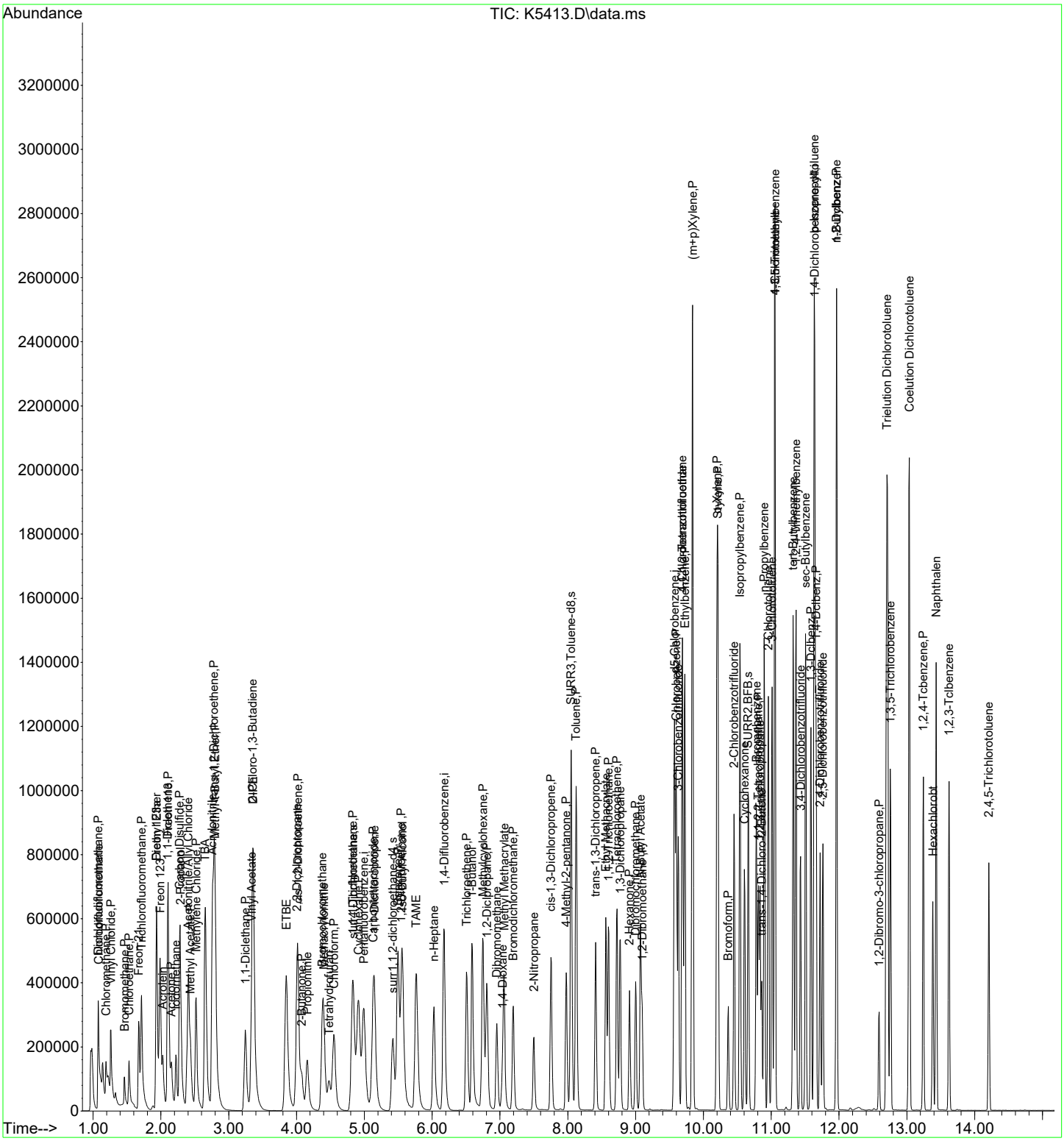
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,4-Dclbenz	11.658	146	364656	45.757	ug/L	97
106) 2,4-Dichlorobenzotrifl...	11.719	214	126090	45.874	ug/L	97
107) 2,5-Dichlorobenzotrifl...	11.762	214	137786	44.972	ug/L	99
108) n-Butylbenzene	11.963	91	581380	44.803	ug/L	98
109) 1,2-Dclbenz	11.963	146	356887	45.796	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.591	157	62429	45.914	ug/L	96
111) Trielution Dichlorotol...	12.707	125	986391	134.289	ug/L	98
112) 1,3,5-Trichlorobenzene	12.756	180	229273	45.026	ug/L	99
113) Coelution Dichlorotoluene	13.036	125	709994	89.862	ug/L	95
114) 1,2,4-Tcbenzene	13.243	180	222138	44.992	ug/L	97
115) Hexachlorobt	13.384	225	81538	44.863	ug/L	98
116) Naphthalen	13.432	128	801580	42.931	ug/L	100
117) 1,2,3-Tclbenzene	13.621	180	213364	43.851	ug/L	95
118) 2,4,5-Trichlorotoluene	14.207	159	156646	40.416	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5413.D
Acq On : 30 Aug 2024 06:18 pm
Operator : F.NAEGLER
Sample : R2408139-001MS
Misc : CEC 26473 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Aug 31 09:40:41 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5446.D
Acq On : 31 Aug 2024 09:05 pm
Operator : F.NAEGLER
Sample : R2408139-008MS
Misc : CEC 26473 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 01 11:49:07 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.989	168	359060	50.00	ug/L		0.00
42) 1,4-Difluorobenzene	6.171	114	595201	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.573	117	533228	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	255529	50.00	ug/L		0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.830	113	192926	51.96	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 103.92%				
47) surr1,1,2-dichloroetha...	5.422	65	256222	50.49	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.98%				
64) SURR3,Toluene-d8	8.049	98	709181	52.05	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 104.10%				
69) SURR2,BFB	10.665	95	277532	51.81	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 103.62%				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.081	51	230951	47.265	ug/L		100
3) Dichlorodifluoromethane	1.075	85	243346	52.676	ug/L		98
4) Chloromethane	1.191	50	235404	47.513	ug/L		97
5) Vinyl Chloride	1.264	62	225615	45.120	ug/L		96
6) Bromomethane	1.465	94	58867	29.777	ug/L		97
7) Chloroethane	1.538	64	121518	38.505	ug/L		98
8) Freon 21	1.678	67	277116	42.282	ug/L		100
9) Trichlorofluoromethane	1.715	101	264208	48.881	ug/L		96
10) Diethyl Ether	1.934	59	176788	45.441	ug/L		98
11) Freon 123a	1.940	67	177479	48.668	ug/L		99
12) Freon 123	1.989	83	261249	58.717	ug/L		99
13) Acrolein	2.026	56	85138	148.482	ug/L		100
14) 1,1-Diclethene	2.105	96	149134	49.001	ug/L		99
15) Freon 113	2.111	101	141274	44.505	ug/L		90
16) Acetone	2.154	43	95473	33.220	ug/L		97
17) 2-Propanol	2.282	45	430228	759.071	ug/L		98
18) Iodomethane	2.221	142	200071	42.156	ug/L		96
19) Carbon Disulfide	2.276	76	371176	49.535	ug/L		99
20) Acetonitrile/Allyl Chl...	2.404	41	421917	278.999	ug/L		94
21) Methyl Acetate	2.434	43	160517	32.008	ug/L		95
22) Methylene Chloride	2.520	84	159414	47.503	ug/L		96
23) TBA	2.648	59	766684	729.806	ug/L		100
24) Acrylonitrile	2.757	53	534368	203.691	ug/L		98
25) Methyl-t-Butyl Ether	2.800	73	521834	44.694	ug/L		98
26) trans-1,2-Dichloroethene	2.788	96	157844	47.278	ug/L		92
27) 1,1-Diclethane	3.245	63	333096	48.381	ug/L		98
28) Vinyl Acetate	3.337	86	25414	40.273	ug/L	#	61
29) DIPE	3.361	45	576560	47.059	ug/L		93
30) 2-Chloro-1,3-Butadiene	3.355	53	306047	43.822	ug/L		97
31) ETBE	3.843	59	621991	48.104	ug/L		99
32) 2,2-Dichloropropane	4.007	77	173950	38.431	ug/L		98
33) cis-1,2-Dichloroethene	4.019	96	218408	56.233	ug/L		97
34) 2-Butanone	4.074	43	131724	38.411	ug/L		99
35) Propionitrile	4.154	54	230459	196.707	ug/L		99
36) Bromochloromethane	4.385	130	119970	46.879	ug/L		98
37) Methacrylonitrile	4.403	67	91412	41.657	ug/L		97
38) Tetrahydrofuran	4.477	42	83625	38.232	ug/L		96
39) Chloroform	4.556	83	294630	46.036	ug/L		97
40) 1,1,1-Trichloroethane	4.836	97	273310	48.666	ug/L		97

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5446.D
Acq On : 31 Aug 2024 09:05 pm
Operator : F.NAEGLER
Sample : R2408139-008MS
Misc : CEC 26473 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 01 11:49:07 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) TAME	5.769	73	476615	47.772 ug/L	95
43) Cyclohexane	4.909	41	160008	45.660 ug/L	94
45) Carbontetrachloride	5.129	117	237174	47.845 ug/L	98
46) 1,1-Dichloropropene	5.147	75	203222	46.495 ug/L	98
48) Benzene	5.495	78	621719	48.839 ug/L	99
49) 1,2-Dichloroethane	5.550	62	283743	44.706 ug/L	99
50) Iso-Butyl Alcohol	5.562	43	250674	809.602 ug/L	98
51) n-Heptane	6.025	43	178535	37.443 ug/L	98
52) 1-Butanol	6.586	56	446239	2039.754 ug/L	100
53) Trichloroethene	6.507	130	894694	237.029 ug/L	98
54) Methylcyclohexane	6.744	55	247236	46.037 ug/L	98
55) 1,2-Diclpropane	6.805	63	166803	43.284 ug/L	98
56) Dibromomethane	6.952	93	112666	46.620 ug/L	97
57) 1,4-Dioxane	7.031	88	66822	809.533 ug/L	100
58) Methyl Methacrylate	7.055	69	147928	45.940 ug/L	97
59) Bromodichloromethane	7.196	83	219116	48.263 ug/L	99
60) 2-Nitropropane	7.500	41	133204	82.092 ug/L	95
62) cis-1,3-Dichloropropene	7.750	75	251055	48.554 ug/L	98
63) 4-Methyl-2-pentanone	7.976	43	249802	41.380 ug/L	97
65) Toluene	8.122	91	684548	47.367 ug/L	100
66) trans-1,3-Dichloropropene	8.409	75	243293	48.992 ug/L	99
67) Ethyl Methacrylate	8.561	69	256228	46.593 ug/L	96
68) 1,1,2-Trichloroethane	8.598	97	163674	46.998 ug/L	98
71) Tetrachloroethene	8.726	164	127677	48.557 ug/L	99
72) 2-Hexanone	8.909	43	188624	40.134 ug/L	96
73) 1,3-Dichloropropane	8.775	76	261536	45.462 ug/L	96
74) Dibromochloromethane	9.000	129	182356	50.164 ug/L	98
75) N-Butyl Acetate	9.073	43	305518	33.901 ug/L	99
76) 1,2-Dibromoethane	9.098	107	177666	46.669 ug/L	97
77) 3-Chlorobenzotrifluoride	9.634	180	206555	47.674 ug/L	96
78) Chlorobenzene	9.598	112	454332	45.471 ug/L	98
79) 4-Chlorobenzotrifluoride	9.683	180	186445	46.941 ug/L	98
80) 1,1,1,2-Tetrachloroethane	9.689	131	178757	49.653 ug/L	99
81) Ethylbenzene	9.726	106	244508	48.669 ug/L	98
82) (m+p)Xylene	9.841	106	604901	97.811 ug/L	99
83) o-Xylene	10.201	106	296084	48.069 ug/L	97
84) Styrene	10.213	104	509377	49.162 ug/L	98
85) Bromoform	10.366	173	112571	51.771 ug/L	98
86) 2-Chlorobenzotrifluoride	10.451	180	208262	47.440 ug/L	98
87) Isopropylbenzene	10.537	105	755612	47.849 ug/L	100
88) Cyclohexanone	10.604	55	226826	194.427 ug/L	97
89) trans-1,4-Dichloro-2-B...	10.860	53	69036	30.980 ug/L	97
91) 1,1,2,2-Tetrachloroethane	10.811	83	236445	44.212 ug/L	98
92) Bromobenzene	10.780	156	188605	46.270 ug/L	95
93) 1,2,3-Trichloropropane	10.835	110	83325	42.967 ug/L	99
94) n-Propylbenzene	10.896	91	852359	46.032 ug/L	99
95) 2-Chlorotoluene	10.957	91	532817	45.755 ug/L	100
96) 3-Chlorotoluene	11.012	91	554939	47.102 ug/L	98
97) 4-Chlorotoluene	11.055	91	626561	46.778 ug/L	99
98) 1,3,5-Trimethylbenzene	11.055	105	648917	46.272 ug/L	98
99) tert-Butylbenzene	11.323	119	559555	46.751 ug/L	98
100) 1,2,4-Trimethylbenzene	11.366	105	653604	45.973 ug/L	100
101) 3,4-Dichlorobenzotrifl...	11.433	214	129786	42.039 ug/L	93
102) sec-Butylbenzene	11.506	105	769579	45.921 ug/L	99
103) p-Isopropyltoluene	11.634	119	673947	45.728 ug/L	98
104) 1,3-Dclbenz	11.585	146	358519	45.923 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5446.D
Acq On : 31 Aug 2024 09:05 pm
Operator : F.NAEGLER
Sample : R2408139-008MS
Misc : CEC 26473 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 01 11:49:07 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

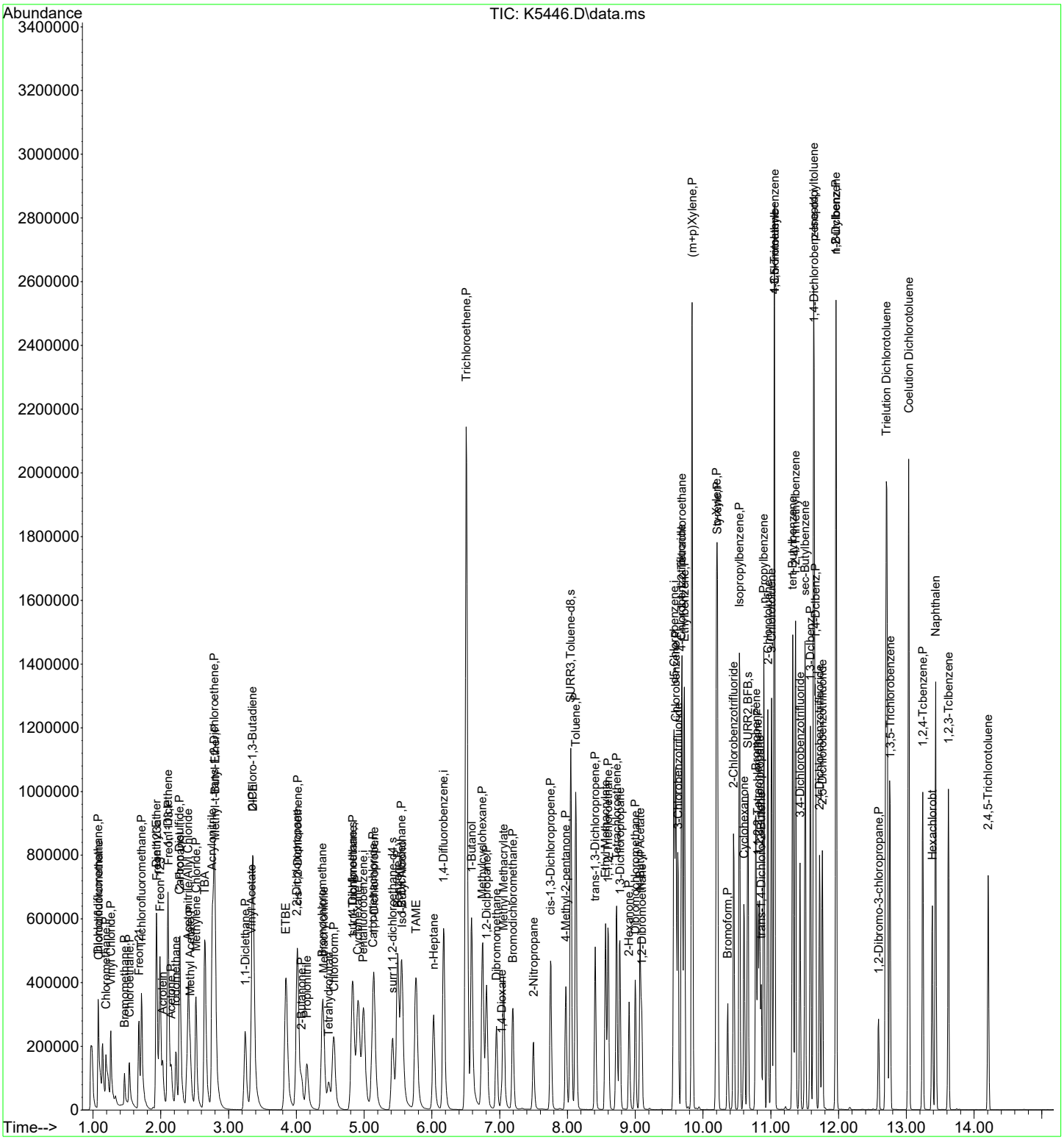
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,4-Dclbenz	11.658	146	365522	46.371	ug/L	97
106) 2,4-Dichlorobenzotrifl...	11.719	214	122780	45.163	ug/L	97
107) 2,5-Dichlorobenzotrifl...	11.762	214	134761	44.470	ug/L	98
108) n-Butylbenzene	11.963	91	570686	44.464	ug/L	98
109) 1,2-Dclbenz	11.963	146	347091	45.030	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.591	157	57559	42.963	ug/L	96
111) Trielution Dichlorotol...	12.707	125	970472	133.579	ug/L	98
112) 1,3,5-Trichlorobenzene	12.762	180	223171	44.311	ug/L	98
113) Coelution Dichlorotoluene	13.036	125	708972	90.722	ug/L	96
114) 1,2,4-Tcbenzene	13.243	180	218061	44.653	ug/L	97
115) Hexachlorobt	13.384	225	80359	44.702	ug/L	98
116) Naphthalen	13.432	128	771062	41.752	ug/L	100
117) 1,2,3-Tclbenzene	13.621	180	209810	43.596	ug/L	96
118) 2,4,5-Trichlorotoluene	14.207	159	153397	40.014	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st FJ 09/02/24
2nd AM 09/03/24

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5446.D
Acq On : 31 Aug 2024 09:05 pm
Operator : F.NAEGLER
Sample : R2408139-008MS
Misc : CEC 26473 T4
ALS Vial : 29 Sample Multiplier: 1

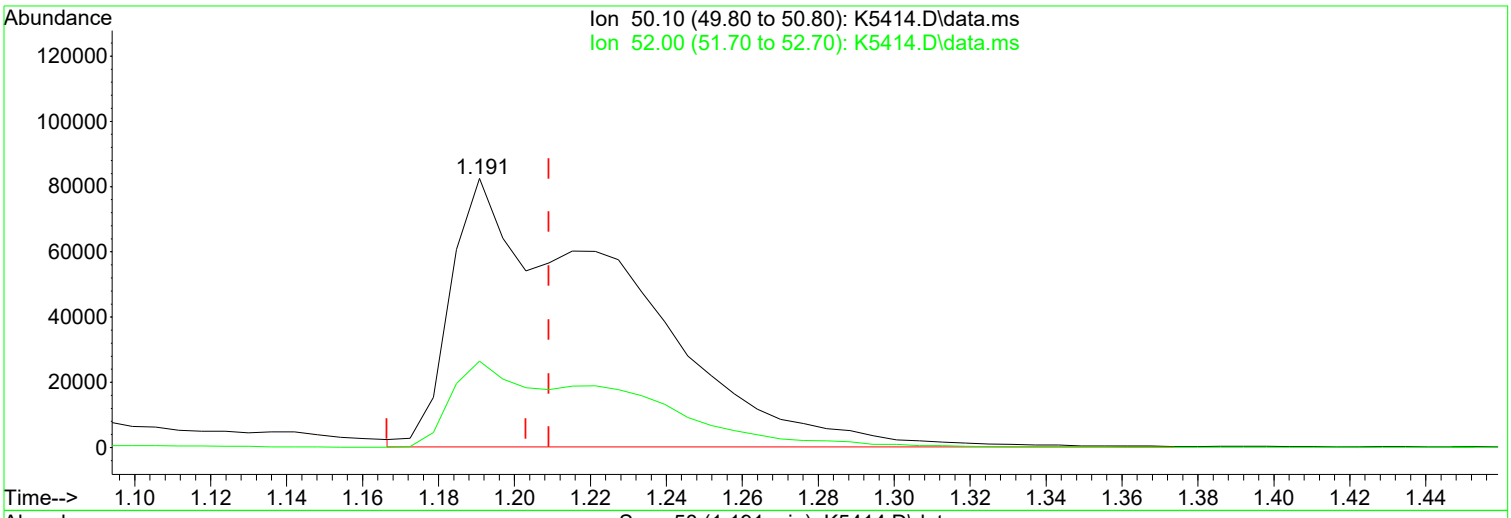
Quant Time: Sep 01 11:49:07 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

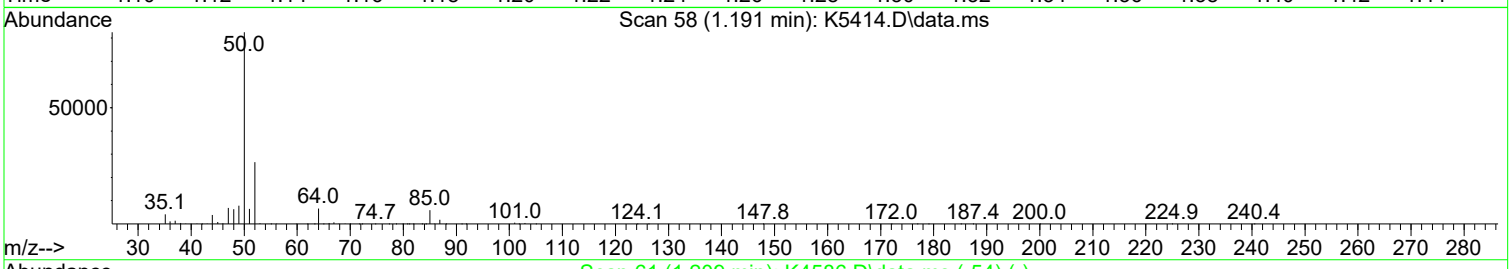


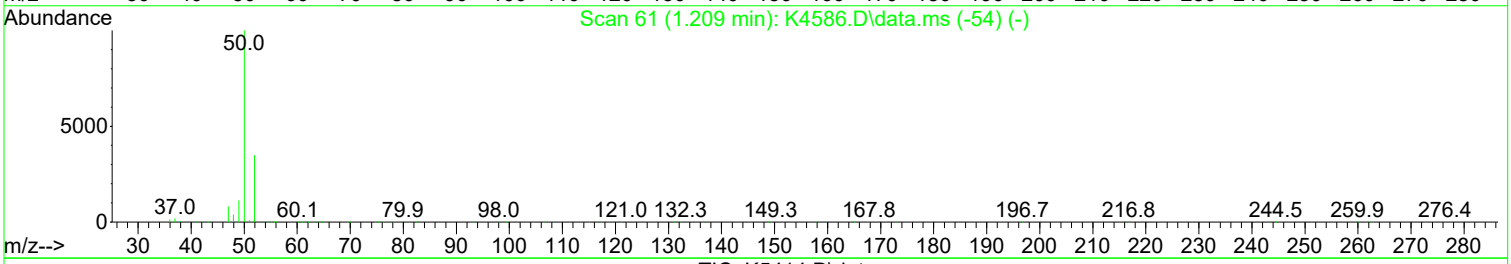
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5414.D
Acq On : 30 Aug 2024 06:42 pm
Operator : F.NAEGLER
Sample : R2408139-001DMS
Misc : CEC 26473 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Aug 31 09:40:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5414.D\data.ms

(4) Chloromethane (P)

1.191min (-0.018) 51.31 ug/L m

response 262199

Ion	Exp%	Act%
50.10	100.00	100.00
52.00	34.50	32.17
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

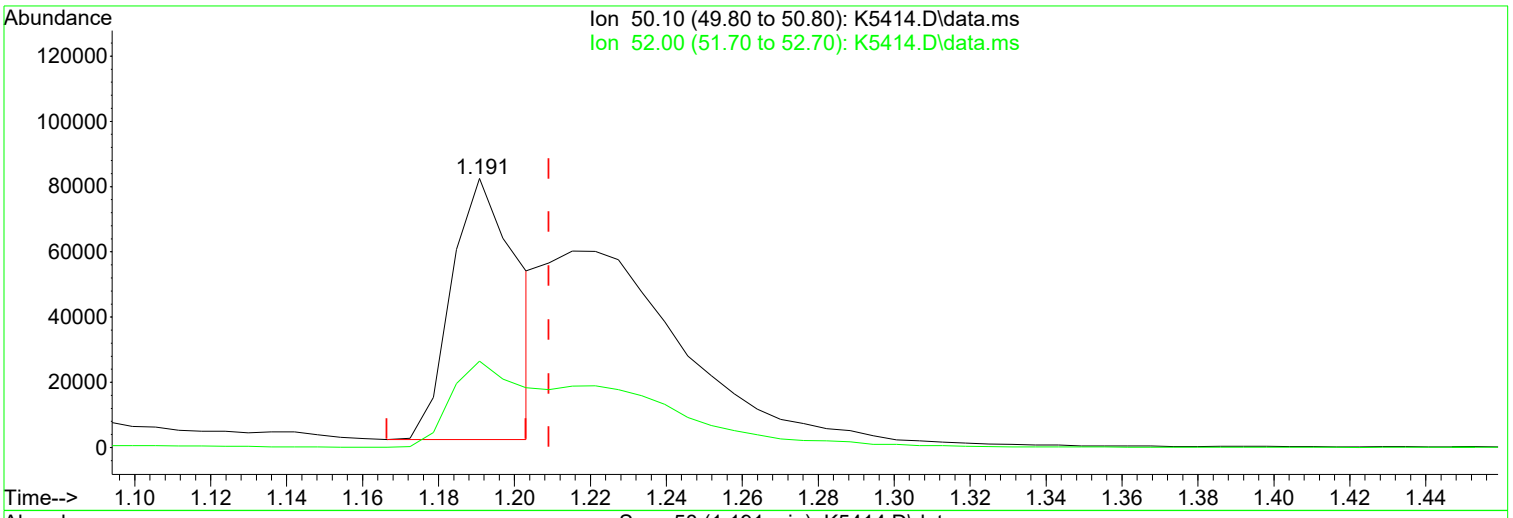
Poor integration.

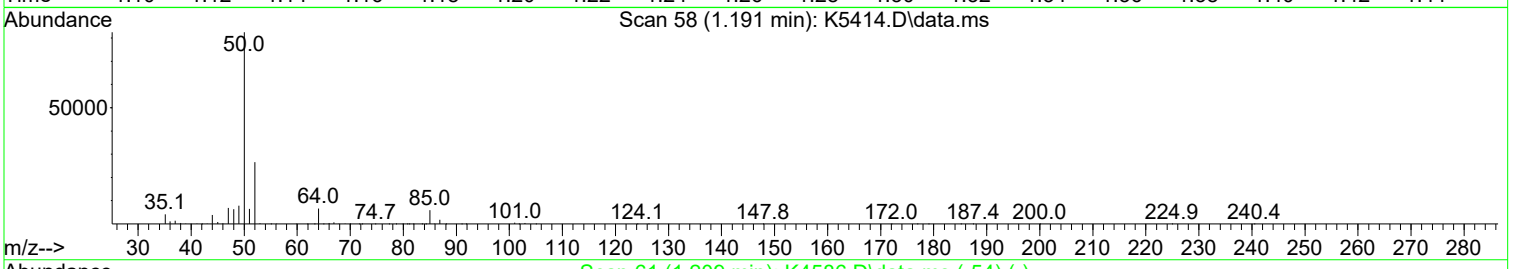
09/04/24

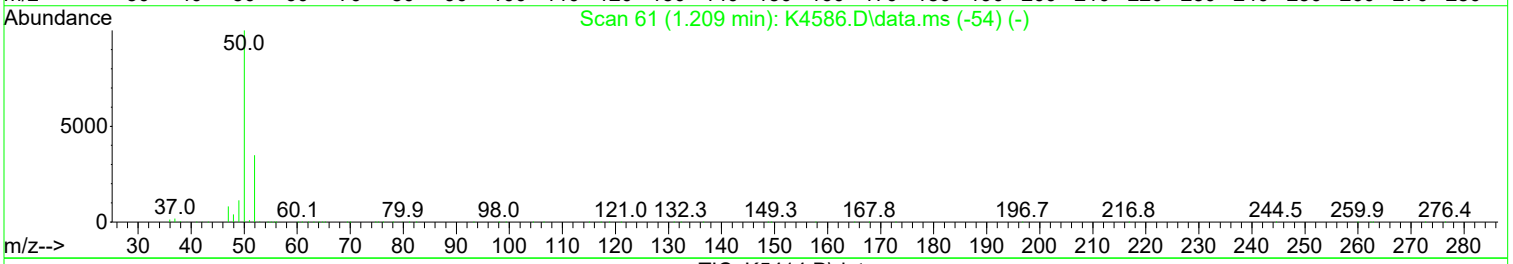
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5414.D
Acq On : 30 Aug 2024 06:42 pm
Operator : F.NAEGLER
Sample : R2408139-001DMS
Misc : CEC 26473 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Aug 31 09:40:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5414.D\data.ms

(4) Chloromethane (P)

1.191min (-0.018) 18.98 ug/L

response 96963

Ion	Exp%	Act%
50.10	100.00	100.00
52.00	34.50	32.17
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/04/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5414.D
Acq On : 30 Aug 2024 06:42 pm
Operator : F.NAEGLER
Sample : R2408139-001DMS
Misc : CEC 26473 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Aug 31 09:40:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.995	168	370304	50.00	ug/L		0.00
42) 1,4-Difluorobenzene	6.172	114	610690	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.573	117	552601	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	265071	50.00	ug/L		0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.830	113	192992	50.66	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 101.32%				
47) surr1,1,2-dichloroetha...	5.422	65	255127	49.00	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 98.00%				
64) SURR3,Toluene-d8	8.049	98	710877	50.85	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.70%				
69) SURR2,BFB	10.665	95	276979	50.39	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.78%				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.081	51	240249	47.675	ug/L		100
3) Dichlorodifluoromethane	1.075	85	263242	55.253	ug/L		96
4) Chloromethane	1.191	50	262199m	51.314	ug/L		
5) Vinyl Chloride	1.264	62	248698	48.226	ug/L		97
6) Bromomethane	1.459	94	48742	23.544	ug/L		99
7) Chloroethane	1.532	64	136342	41.891	ug/L		96
8) Freon 21	1.672	67	283726	41.976	ug/L		98
9) Trichlorofluoromethane	1.715	101	275531	49.428	ug/L		99
10) Diethyl Ether	1.935	59	189857	47.318	ug/L		99
11) Freon 123a	1.935	67	177477	47.190	ug/L		97
12) Freon 123	1.989	83	264166	57.570	ug/L		99
13) Acrolein	2.032	56	101899	172.318	ug/L		99
14) 1,1-Diclethene	2.105	96	162652	51.820	ug/L		99
15) Freon 113	2.105	101	153224	46.804	ug/L		97
16) Acetone	2.154	43	113603	38.328	ug/L		98
17) 2-Propanol	2.288	45	510885	874.008	ug/L		97
18) Iodomethane	2.221	142	202609	41.395	ug/L		98
19) Carbon Disulfide	2.276	76	416058	53.839	ug/L		100
20) Acetonitrile/Allyl Chl...	2.404	41	478084	306.541	ug/L		96
21) Methyl Acetate	2.434	43	183637	35.506	ug/L		99
22) Methylene Chloride	2.520	84	169540	49.006	ug/L		98
23) TBA	2.654	59	959448	885.567	ug/L		98
24) Acrylonitrile	2.758	53	605119	223.656	ug/L		99
25) Methyl-t-Butyl Ether	2.800	73	563887	46.830	ug/L		97
26) trans-1,2-Dichloroethene	2.782	96	168087	48.818	ug/L		98
27) 1,1-Diclethane	3.245	63	357638	50.368	ug/L		99
28) Vinyl Acetate	3.337	86	31254	47.180	ug/L	#	74
29) DIPE	3.361	45	601358	47.593	ug/L		96
30) 2-Chloro-1,3-Butadiene	3.355	53	332159	46.116	ug/L		94
31) ETBE	3.849	59	653641	49.017	ug/L		99
32) 2,2-Dichloropropane	4.007	77	200152	42.877	ug/L		98
33) cis-1,2-Dichloroethene	4.020	96	224319	56.001	ug/L		95
34) 2-Butanone	4.074	43	156150	44.151	ug/L		98
35) Propionitrile	4.160	54	267767	221.611	ug/L		97
36) Bromochloromethane	4.385	130	126645	47.985	ug/L		98
37) Methacrylonitrile	4.404	67	103787	45.861	ug/L		95
38) Tetrahydrofuran	4.477	42	96572	42.811	ug/L		92
39) Chloroform	4.550	83	315608	47.817	ug/L		98
40) 1,1,1-Trichloroethane	4.830	97	296112	51.125	ug/L		98

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5414.D
Acq On : 30 Aug 2024 06:42 pm
Operator : F.NAEGLER
Sample : R2408139-001DMS
Misc : CEC 26473 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Aug 31 09:40:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) TAME	5.763	73	502914	48.877	ug/L		97
43) Cyclohexane	4.910	41	163078	45.356	ug/L		92
45) Carbontetrachloride	5.129	117	257699	50.667	ug/L		100
46) 1,1-Dichloropropene	5.147	75	221675	49.430	ug/L		97
48) Benzene	5.495	78	672113	51.458	ug/L		99
49) 1,2-Dichloroethane	5.550	62	305628	46.933	ug/L		98
50) Iso-Butyl Alcohol	5.562	43	316738	997.023	ug/L		99
51) n-Heptane	6.025	43	204520	41.805	ug/L		98
52) 1-Butanol	6.586	56	450557	2009.587	ug/L		96
53) Trichloroethene	6.507	130	193926	50.073	ug/L		98
54) Methylcyclohexane	6.751	55	257703	46.769	ug/L		98
55) 1,2-Diclpropane	6.806	63	183470	46.401	ug/L		98
56) Dibromomethane	6.952	93	120624	48.647	ug/L		94
57) 1,4-Dioxane	7.031	88	79495	938.637	ug/L		97
58) Methyl Methacrylate	7.062	69	162794	49.274	ug/L		96
59) Bromodichloromethane	7.190	83	236947	50.867	ug/L		98
60) 2-Nitropropane	7.501	41	158673	95.309	ug/L		96
61) 2-Chloroethylvinyl Ether	7.549	63	673	0.527	ug/L	#	48
62) cis-1,3-Dichloropropene	7.751	75	275615	51.951	ug/L		99
63) 4-Methyl-2-pentanone	7.976	43	297478	48.027	ug/L		97
65) Toluene	8.123	91	739491	49.871	ug/L		97
66) trans-1,3-Dichloropropene	8.409	75	264475	51.906	ug/L		100
67) Ethyl Methacrylate	8.561	69	283166	50.185	ug/L		95
68) 1,1,2-Trichloroethane	8.598	97	179358	50.195	ug/L		99
71) Tetrachloroethene	8.726	164	138605	50.865	ug/L		98
72) 2-Hexanone	8.909	43	228350	46.883	ug/L		97
73) 1,3-Dichloropropane	8.775	76	284620	47.740	ug/L		95
74) Dibromochloromethane	9.000	129	196288	52.103	ug/L		99
75) N-Butyl Acetate	9.074	43	352244	37.715	ug/L		99
76) 1,2-Dibromoethane	9.092	107	195162	49.468	ug/L		100
77) 3-Chlorobenzotrifluoride	9.628	180	223561	49.790	ug/L		98
78) Chlorobenzene	9.598	112	486123	46.947	ug/L		99
79) 4-Chlorobenzotrifluoride	9.689	180	196972	47.853	ug/L		97
80) 1,1,1,2-Tetrachloroethane	9.689	131	191649	51.368	ug/L		100
81) Ethylbenzene	9.726	106	261714	50.268	ug/L		100
82) (m+p)Xylene	9.842	106	650441	101.487	ug/L		98
83) o-Xylene	10.201	106	321966	50.439	ug/L		96
84) Styrene	10.214	104	548732	51.104	ug/L		98
85) Bromoform	10.366	173	124280	54.851	ug/L		97
86) 2-Chlorobenzotrifluoride	10.451	180	218445	48.015	ug/L		99
87) Isopropylbenzene	10.537	105	819780	50.093	ug/L		98
88) Cyclohexanone	10.604	55	279067	230.821	ug/L		99
89) trans-1,4-Dichloro-2-B...	10.860	53	77617	33.609	ug/L		96
91) 1,1,2,2-Tetrachloroethane	10.811	83	263236	47.449	ug/L		99
92) Bromobenzene	10.781	156	202617	47.918	ug/L		96
93) 1,2,3-Trichloropropane	10.835	110	93497	46.476	ug/L		98
94) n-Propylbenzene	10.896	91	924011	48.105	ug/L		98
95) 2-Chlorotoluene	10.957	91	576173	47.697	ug/L		99
96) 3-Chlorotoluene	11.012	91	575854	47.118	ug/L		97
97) 4-Chlorotoluene	11.055	91	672018	48.366	ug/L		98
98) 1,3,5-Trimethylbenzene	11.055	105	697076	47.917	ug/L		100
99) tert-Butylbenzene	11.323	119	597352	48.112	ug/L		100
100) 1,2,4-Trimethylbenzene	11.366	105	693945	47.053	ug/L		100
101) 3,4-Dichlorobenzotrifl...	11.433	214	141643	44.228	ug/L		95
102) sec-Butylbenzene	11.506	105	832882	47.909	ug/L		98
103) p-Isopropyltoluene	11.634	119	734736	48.058	ug/L		99

1st FNJ 09/04/24
2nd 09/04/24

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5414.D
Acq On : 30 Aug 2024 06:42 pm
Operator : F.NAEGLER
Sample : R2408139-001DMS
Misc : CEC 26473 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Aug 31 09:40:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

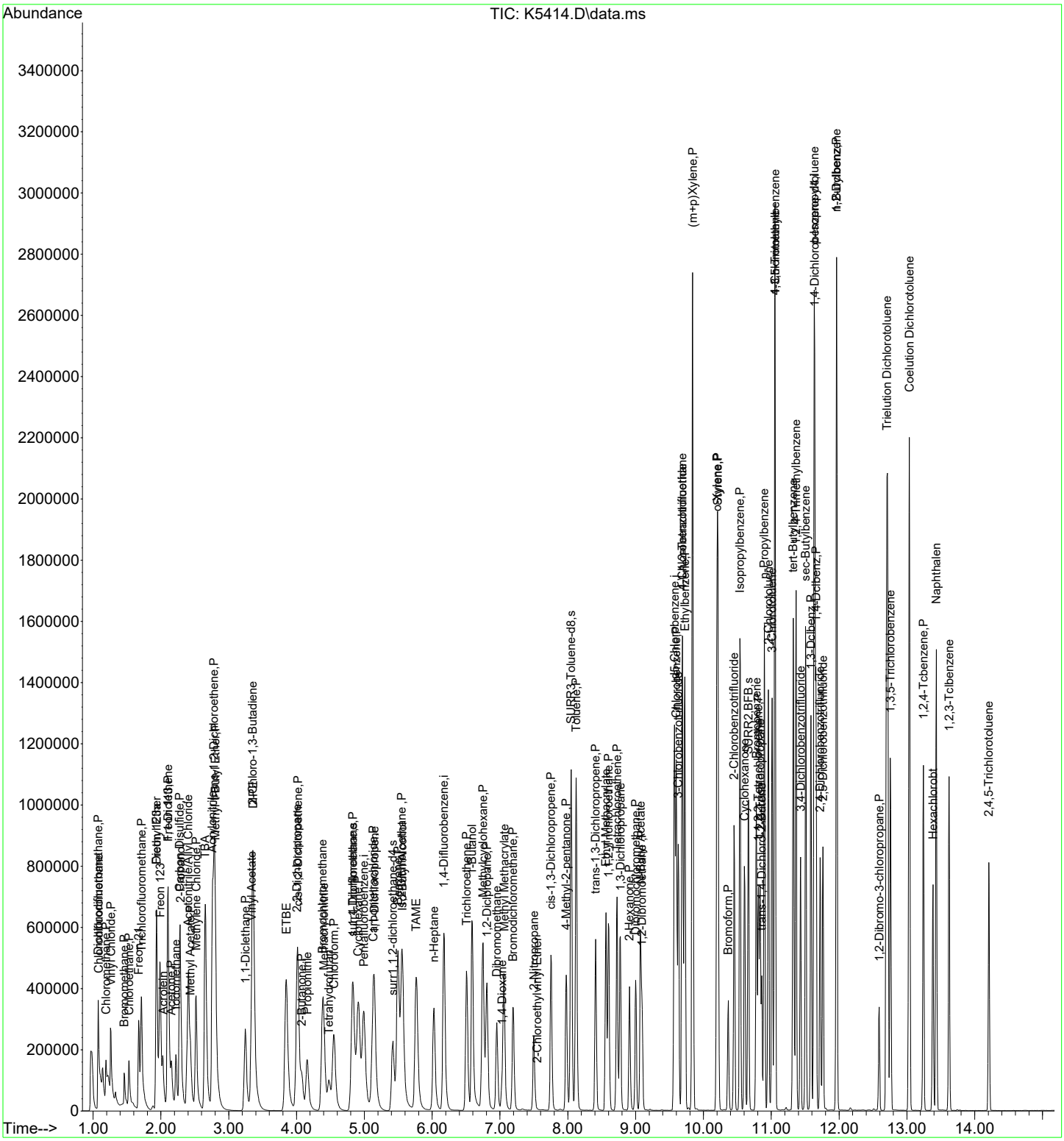
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.585	146	388606	47.985	ug/L	98
105) 1,4-Dclbenz	11.658	146	392558	48.008	ug/L	97
106) 2,4-Dichlorobenzotrifl...	11.719	214	131660	46.686	ug/L	98
107) 2,5-Dichlorobenzotrifl...	11.762	214	143416	45.622	ug/L	97
108) n-Butylbenzene	11.963	91	630690	47.370	ug/L	99
109) 1,2-Dclbenz	11.963	146	378905	47.388	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.591	157	67367	48.151	ug/L	97
111) Trielution Dichlorotol...	12.707	125	1028272	136.440	ug/L	97
112) 1,3,5-Trichlorobenzene	12.756	180	240982	46.125	ug/L	100
113) Coelution Dichlorotoluene	13.036	125	752638	92.843	ug/L	95
114) 1,2,4-Tcbenzene	13.244	180	239280	47.235	ug/L	97
115) Hexachlorobt	13.384	225	90927	48.760	ug/L	99
116) Naphthalen	13.433	128	864554	45.130	ug/L	99
117) 1,2,3-Tclbenzene	13.621	180	234142	46.901	ug/L	99
118) 2,4,5-Trichlorotoluene	14.207	159	168771	42.440	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st FN 09/04/24
2nd 09/04/24

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5414.D
Acq On : 30 Aug 2024 06:42 pm
Operator : F.NAEGLER
Sample : R2408139-001DMS
Misc : CEC 26473 T4
ALS Vial : 30 Sample Multiplier: 1

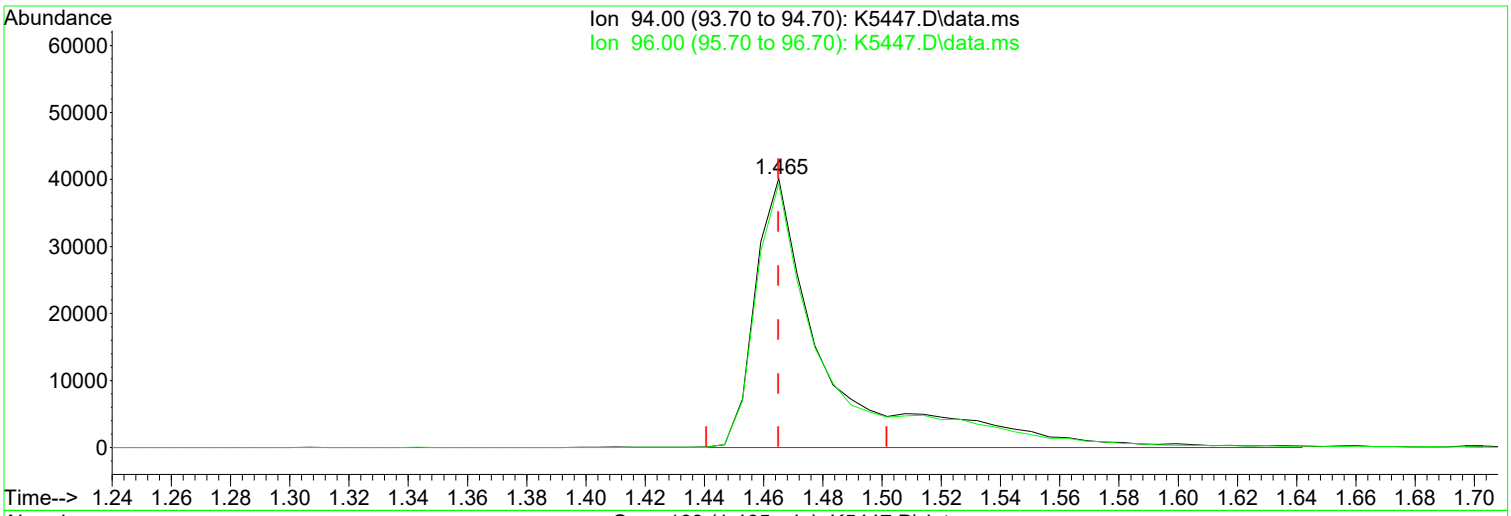
Quant Time: Aug 31 09:40:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

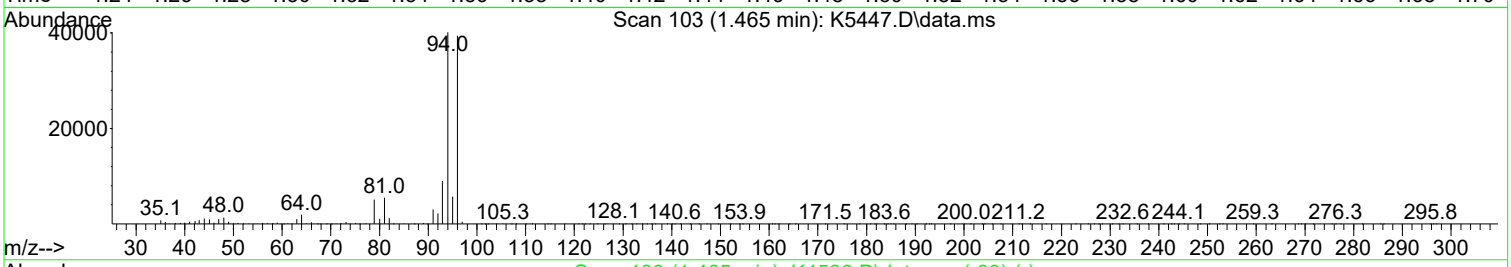


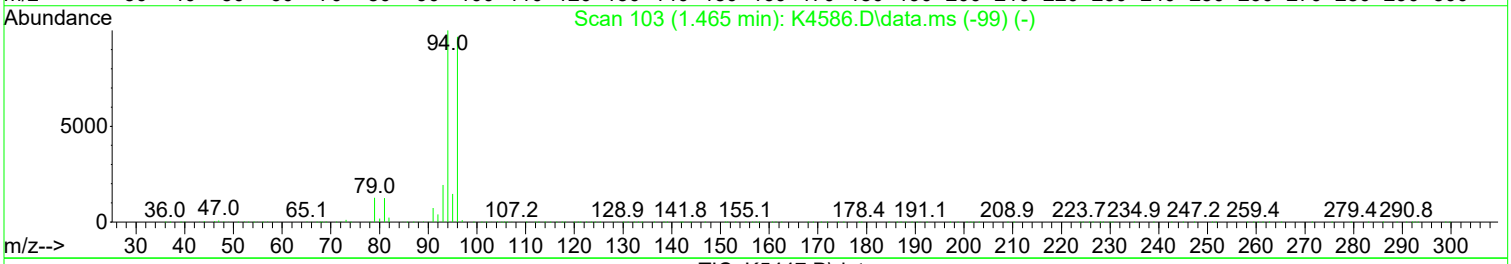
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5447.D
Acq On : 31 Aug 2024 09:28 pm
Operator : F.NAEGLER
Sample : R2408139-008DMS
Misc : CEC 26473 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 01 11:49:22 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5447.D\data.ms

(6) Bromomethane (P)

1.465min (+ 0.000) 33.87 ug/L m

response 68467

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	96.60	98.09
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

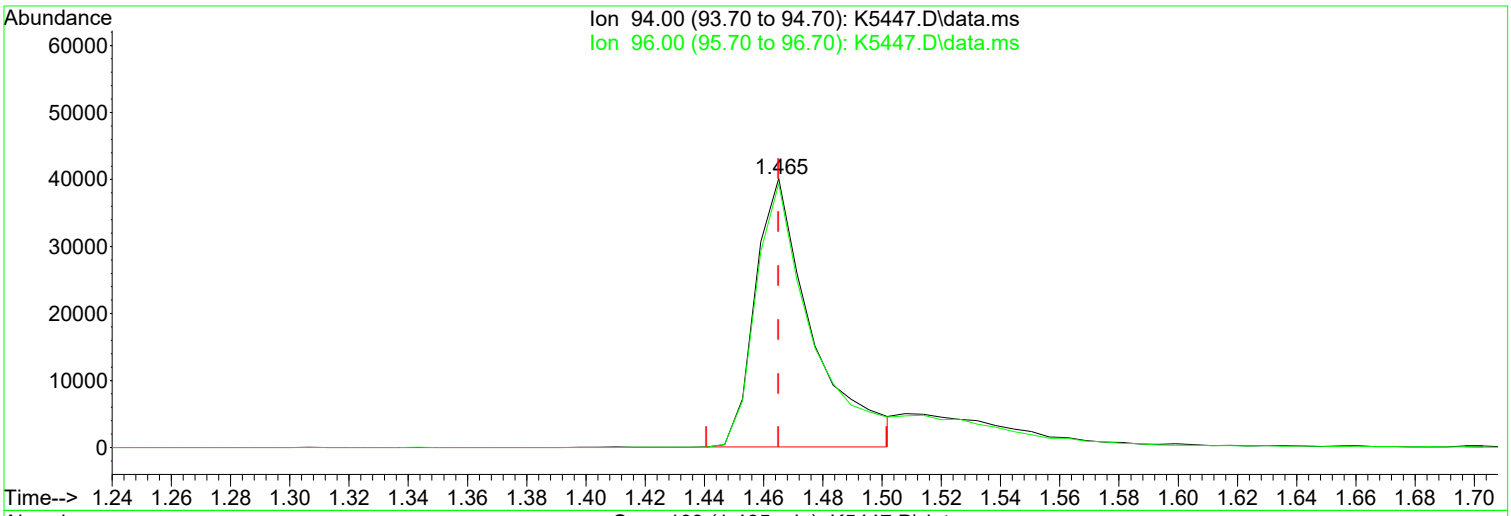
Poor integration.

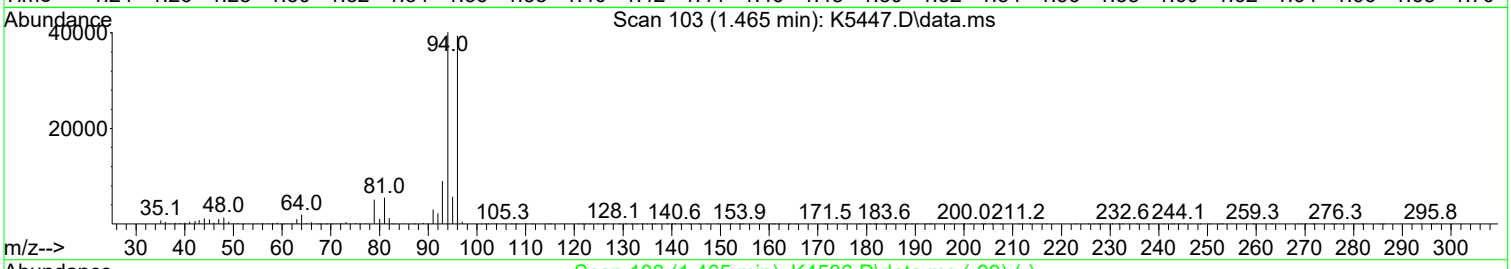
09/02/24

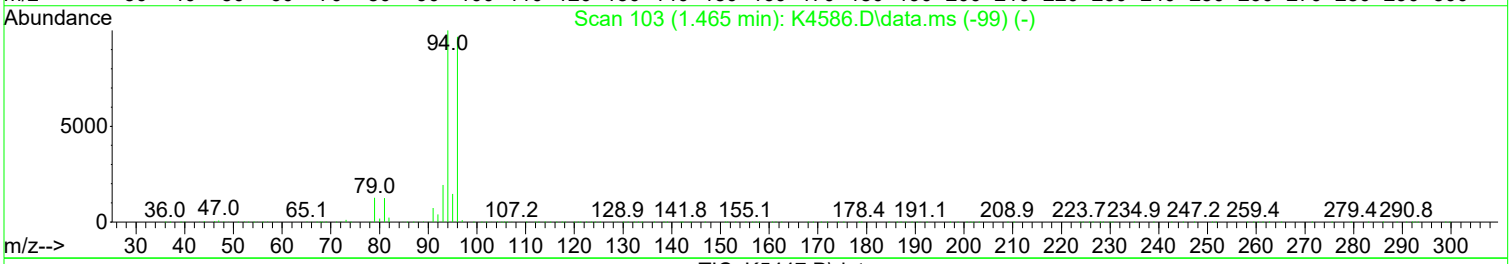
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5447.D
Acq On : 31 Aug 2024 09:28 pm
Operator : F.NAEGLER
Sample : R2408139-008DMS
Misc : CEC 26473 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 01 11:49:22 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5447.D\data.ms

(6) Bromomethane (P)

1.465min (+ 0.000) 25.85 ug/L

response 53263

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	96.60	98.09
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/02/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5447.D
Acq On : 31 Aug 2024 09:28 pm
Operator : F.NAEGLER
Sample : R2408139-008DMS
Misc : CEC 26473 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 01 11:49:22 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.995	168	370740	50.00	ug/L		0.00
42) 1,4-Difluorobenzene	6.172	114	616845	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.573	117	560203	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	264953	50.00	ug/L		0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.830	113	193547	50.30	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 100.60%				
47) surr1,1,2-dichloroetha...	5.422	65	258256	49.10	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 98.20%				
64) SURR3,Toluene-d8	8.049	98	720162	51.00	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.00%				
69) SURR2,BFB	10.665	95	278846	50.23	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.46%				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.081	51	239371	47.445	ug/L		98
3) Dichlorodifluoromethane	1.075	85	264382	55.427	ug/L		97
4) Chloromethane	1.191	50	259647	50.755	ug/L		97
5) Vinyl Chloride	1.264	62	247441	47.925	ug/L		96
6) Bromomethane	1.465	94	68467m	33.871	ug/L		
7) Chloroethane	1.532	64	140255	43.042	ug/L		99
8) Freon 21	1.678	67	288489	42.631	ug/L		100
9) Trichlorofluoromethane	1.715	101	285638	51.181	ug/L		99
10) Diethyl Ether	1.935	59	191737	47.730	ug/L		98
11) Freon 123a	1.941	67	180176	47.851	ug/L		94
12) Freon 123	1.989	83	270834	58.954	ug/L		99
13) Acrolein	2.026	56	90373	152.647	ug/L		97
14) 1,1-Diclethene	2.105	96	164381	52.309	ug/L		99
15) Freon 113	2.111	101	154364	47.097	ug/L		92
16) Acetone	2.154	43	102419	34.514	ug/L		98
17) 2-Propanol	2.282	45	448066	765.637	ug/L		96
18) Iodomethane	2.221	142	225658	46.050	ug/L		92
19) Carbon Disulfide	2.276	76	406860	52.587	ug/L		100
20) Acetonitrile/Allyl Chl...	2.410	41	467264	299.251	ug/L		96
21) Methyl Acetate	2.434	43	160935	31.080	ug/L		96
22) Methylene Chloride	2.520	84	174689	50.452	ug/L		99
23) TBA	2.648	59	842898	777.076	ug/L		99
24) Acrylonitrile	2.758	53	578319	213.499	ug/L		100
25) Methyl-t-Butyl Ether	2.800	73	572192	47.463	ug/L		98
26) trans-1,2-Dichloroethene	2.788	96	170667	49.509	ug/L		93
27) 1,1-Diclethane	3.245	63	366223	51.517	ug/L		100
28) Vinyl Acetate	3.331	86	28054	42.778	ug/L	#	91
29) DIPE	3.361	45	623176	49.261	ug/L		93
30) 2-Chloro-1,3-Butadiene	3.355	53	326254	45.243	ug/L		95
31) ETBE	3.843	59	661403	49.541	ug/L		99
32) 2,2-Dichloropropane	4.013	77	189139	40.470	ug/L		97
33) cis-1,2-Dichloroethene	4.020	96	237060	59.112	ug/L		95
34) 2-Butanone	4.074	43	141470	39.953	ug/L		98
35) Propionitrile	4.154	54	250581	207.144	ug/L		97
36) Bromochloromethane	4.379	130	131409	49.731	ug/L		97
37) Methacrylonitrile	4.404	67	102422	45.204	ug/L		90
38) Tetrahydrofuran	4.477	42	87729	38.845	ug/L		92
39) Chloroform	4.550	83	320414	48.488	ug/L		97
40) 1,1,1-Trichloroethane	4.830	97	298534	51.483	ug/L		98

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5447.D
Acq On : 31 Aug 2024 09:28 pm
Operator : F.NAEGLER
Sample : R2408139-008DMS
Misc : CEC 26473 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 01 11:49:22 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.763	73	507559	49.271	ug/L	97
43) Cyclohexane	4.916	41	163719	45.079	ug/L	98
45) Carbontetrachloride	5.129	117	262593	51.114	ug/L	99
46) 1,1-Dichloropropene	5.153	75	223674	49.378	ug/L	96
48) Benzene	5.495	78	685452	51.956	ug/L	99
49) 1,2-Dichloroethane	5.550	62	310052	47.137	ug/L	98
50) Iso-Butyl Alcohol	5.556	43	278075	866.586	ug/L	99
51) n-Heptane	6.025	43	194170	39.294	ug/L	98
52) 1-Butanol	6.586	56	479000	2107.248	ug/L	99
53) Trichloroethene	6.507	130	908587	232.264	ug/L	98
54) Methylcyclohexane	6.751	55	255320	45.875	ug/L	97
55) 1,2-Diclpropane	6.806	63	184762	46.262	ug/L	98
56) Dibromomethane	6.952	93	122721	48.999	ug/L	94
57) 1,4-Dioxane	7.037	88	72916	852.365	ug/L	100
58) Methyl Methacrylate	7.062	69	160940	48.227	ug/L	96
59) Bromodichloromethane	7.196	83	241832	51.398	ug/L	99
60) 2-Nitropropane	7.495	41	151364	90.011	ug/L	96
62) cis-1,3-Dichloropropene	7.757	75	278488	51.969	ug/L	99
63) 4-Methyl-2-pentanone	7.976	43	272710	43.589	ug/L	97
65) Toluene	8.122	91	758261	50.627	ug/L	99
66) trans-1,3-Dichloropropene	8.409	75	271355	52.725	ug/L	99
67) Ethyl Methacrylate	8.561	69	282837	49.627	ug/L	94
68) 1,1,2-Trichloroethane	8.598	97	179841	49.828	ug/L	99
71) Tetrachloroethene	8.726	164	140461	50.847	ug/L	97
72) 2-Hexanone	8.909	43	199252	40.354	ug/L	94
73) 1,3-Dichloropropane	8.775	76	286895	47.469	ug/L	95
74) Dibromochloromethane	9.000	129	201956	52.880	ug/L	98
75) N-Butyl Acetate	9.073	43	311750	32.927	ug/L	97
76) 1,2-Dibromoethane	9.092	107	194706	48.683	ug/L	99
77) 3-Chlorobenzotrifluoride	9.628	180	222233	48.822	ug/L	98
78) Chlorobenzene	9.598	112	499422	47.577	ug/L	98
79) 4-Chlorobenzotrifluoride	9.683	180	200622	48.078	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.689	131	198540	52.492	ug/L	99
81) Ethylbenzene	9.726	106	269436	51.049	ug/L	97
82) (m+p)Xylene	9.842	106	666728	102.617	ug/L	99
83) o-Xylene	10.201	106	325681	50.328	ug/L	99
84) Styrene	10.214	104	558749	51.331	ug/L	98
85) Bromoform	10.366	173	125842	54.793	ug/L	97
86) 2-Chlorobenzotrifluoride	10.451	180	226344	49.076	ug/L	99
87) Isopropylbenzene	10.537	105	835442	50.357	ug/L	98
88) Cyclohexanone	10.604	55	247950	202.300	ug/L	99
89) trans-1,4-Dichloro-2-B...	10.860	53	76612	32.724	ug/L	96
91) 1,1,2,2-Tetrachloroethane	10.811	83	260487	46.975	ug/L	99
92) Bromobenzene	10.781	156	209441	49.554	ug/L	94
93) 1,2,3-Trichloropropane	10.835	110	91697	45.602	ug/L	97
94) n-Propylbenzene	10.896	91	942378	49.083	ug/L	98
95) 2-Chlorotoluene	10.957	91	590193	48.880	ug/L	99
96) 3-Chlorotoluene	11.012	91	597626	48.921	ug/L	98
97) 4-Chlorotoluene	11.055	91	689396	49.639	ug/L	98
98) 1,3,5-Trimethylbenzene	11.055	105	711352	48.920	ug/L	99
99) tert-Butylbenzene	11.323	119	622947	50.196	ug/L	100
100) 1,2,4-Trimethylbenzene	11.366	105	715471	48.534	ug/L	98
101) 3,4-Dichlorobenzotrifl...	11.433	214	142255	44.439	ug/L	94
102) sec-Butylbenzene	11.506	105	855080	49.208	ug/L	98
103) p-Isopropyltoluene	11.634	119	751834	49.198	ug/L	98
104) 1,3-Dclbenz	11.585	146	400715	49.503	ug/L	98

1st FJ 09/02/24
2nd AM 09/03/24

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5447.D
Acq On : 31 Aug 2024 09:28 pm
Operator : F.NAEGLER
Sample : R2408139-008DMS
Misc : CEC 26473 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 01 11:49:22 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

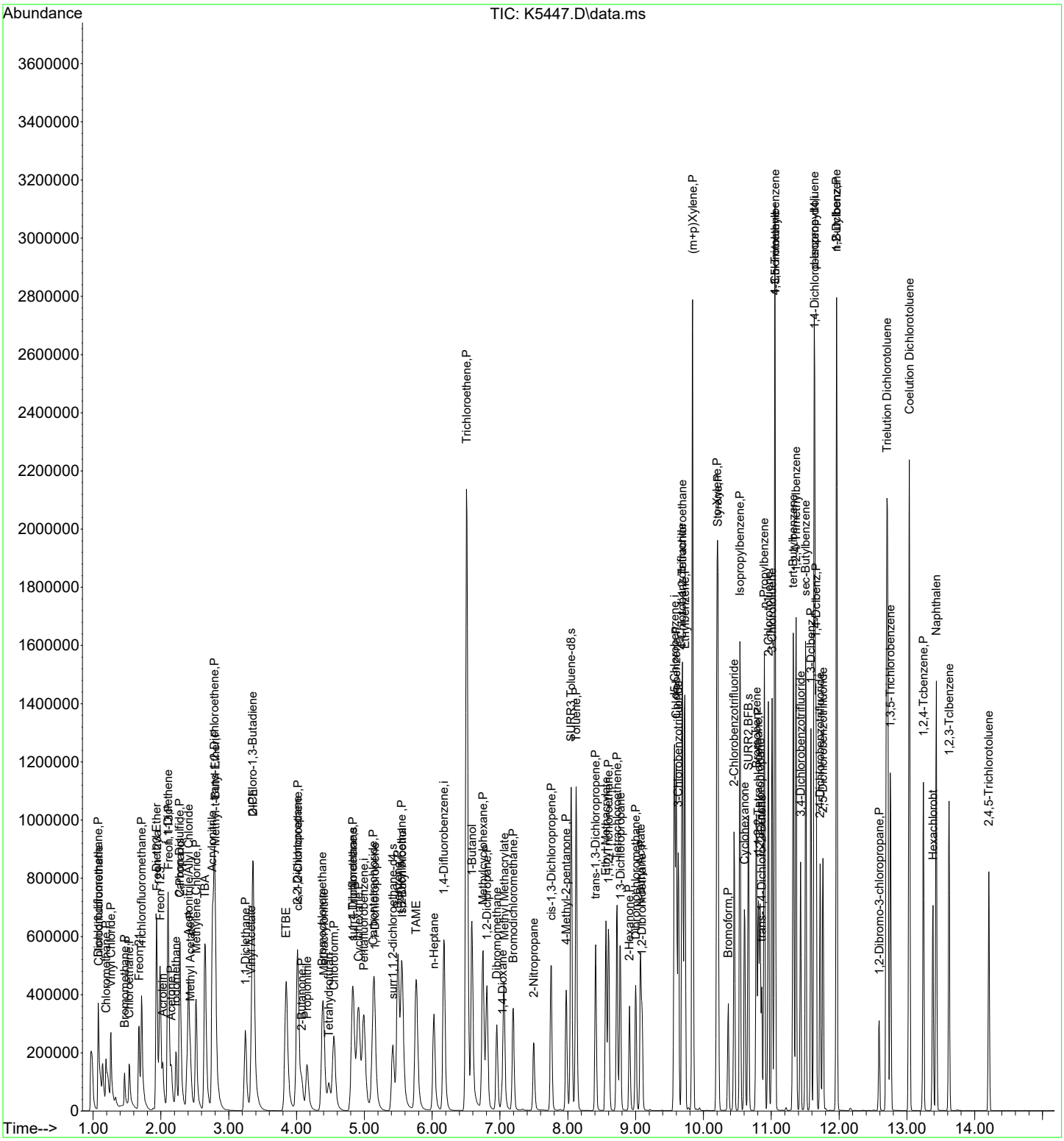
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,4-Dclbenz	11.658	146	402034	49.189	ug/L	97
106) 2,4-Dichlorobenzotrifl...	11.719	214	131891	46.789	ug/L	98
107) 2,5-Dichlorobenzotrifl...	11.762	214	147441	46.924	ug/L	99
108) n-Butylbenzene	11.963	91	636768	47.848	ug/L	100
109) 1,2-Dclbenz	11.963	146	389537	48.740	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.591	157	65370	46.824	ug/L	93
111) Trielution Dichlorotol...	12.707	125	1047426	139.043	ug/L	97
112) 1,3,5-Trichlorobenzene	12.756	180	243375	46.604	ug/L	98
113) Coelution Dichlorotoluene	13.036	125	769531	94.969	ug/L	95
114) 1,2,4-Tcbenzene	13.243	180	242776	47.946	ug/L	99
115) Hexachlorobt	13.384	225	89951	48.258	ug/L	98
116) Naphthalen	13.432	128	858841	44.851	ug/L	99
117) 1,2,3-Tclbenzene	13.621	180	236957	47.486	ug/L	97
118) 2,4,5-Trichlorotoluene	14.207	159	166159	41.801	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5447.D
Acq On : 31 Aug 2024 09:28 pm
Operator : F.NAEGLER
Sample : R2408139-008DMS
Misc : CEC 26473 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 01 11:49:22 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5387.D
Acq On : 30 Aug 2024 07:42 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 30 07:58:04 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	i	Pentafluorobenzene	50.000	50.000	0.0	105	0.00
2		Chlorodifluoromethane	50.000	44.945	10.1	96	0.00
3	P	Dichlorodifluoromethane	50.000	43.677	12.6	89	0.00
4	P	Chloromethane	50.000	48.671	2.7	106	-0.02
5	P	Vinyl Chloride	50.000	44.176	11.6	96	0.00
6	P	Bromomethane	50.000	59.301	-18.6	119	0.00
7	P	Chloroethane	50.000	44.537	10.9	91	0.00
8		Freon 21	50.000	47.386	5.2	102	0.00
9	P	Trichlorofluoromethane	50.000	54.274	-8.5	114	0.00
10		Diethyl Ether	50.000	47.832	4.3	104	0.00
11		Freon 123a	50.000	45.368	9.3	100	0.00
12		Freon 123	50.000	48.137	3.7	103	0.00
13		Acrolein	250.000	532.935	-113.2#	211	0.00
14		1,1-Diclethene	50.000	51.430	-2.9	111	0.00
15	P	Freon 113	50.000	52.376	-4.8	114	0.00
16	P	Acetone	50.000	36.494	27.0#	75	0.00
17		2-Propanol	1000.000	573.620	42.6#	60	0.00
18		Iodomethane	50.000	57.906	-15.8	116	0.00
19	P	Carbon Disulfide	50.000	57.349	-14.7	117	0.00
20		Acetonitrile/Allyl Chloride	300.000	279.932	6.7	100	0.00
21	P	Methyl Acetate	50.000	36.248	27.5#	76	0.00
22	P	Methylene Chloride	50.000	50.478	-1.0	105	0.00
23		TBA	1000.000	568.113	43.2#	59	0.00
24		Acrylonitrile	250.000	195.357	21.9#	82	0.00
25	P	Methyl-t-Butyl Ether	50.000	46.855	6.3	101	0.00
26	P	trans-1,2-Dichloroethene	50.000	51.028	-2.1	110	0.00
27	P	1,1-Diclethane	50.000	50.275	-0.5	107	0.00
28		Vinyl Acetate	50.000	64.865	-29.7#	141	0.00
29		DIPE	50.000	44.368	11.3	97	0.00
30		2-Chloro-1,3-Butadiene	50.000	53.231	-6.5	112	0.00
31		ETBE	50.000	44.475	11.0	96	0.00
32		2,2-Dichloropropane	50.000	58.829	-17.7	115	0.00
33	P	cis-1,2-Dichloroethene	50.000	48.806	2.4	106	0.00
34	P	2-Butanone	50.000	37.477	25.0#	77	0.00
35		Propionitrile	250.000	178.570	28.6#	76	0.00
36		Bromochloromethane	50.000	49.352	1.3	106	0.00
37		Methacrylonitrile	50.000	40.685	18.6	85	0.00
38		Tetrahydrofuran	50.000	34.411	31.2#	74	0.00
39	P	Chloroform	50.000	48.825	2.3	108	0.00
40	P	1,1,1-Trichloroethane	50.000	51.531	-3.1	108	0.00
41		TAME	50.000	44.540	10.9	96	0.00
42	i	1,4-Difluorobenzene	50.000	50.000	0.0	101	0.00
43	P	Cyclohexane	50.000	46.826	6.3	103	0.00
44	s	surr4,Dibrflmethane	50.000	52.302	-4.6	104	0.00
45	P	Carbontetrachloride	50.000	50.917	-1.8	108	0.00
46		1,1-Dichloropropene	50.000	51.610	-3.2	112	0.00
47	s	surr1,1,2-dichloroethane-d4	50.000	50.002	-0.0	99	0.00
48	P	Benzene	50.000	51.893	-3.8	110	0.00
49	P	1,2-Dichloroethane	50.000	48.037	3.9	103	0.00
50		Iso-Butyl Alcohol	1000.000	671.198	32.9#	64	0.00
51		n-Heptane	50.000	54.520	-9.0	120	0.00

1st FNJ 08/30/24
2nd WR 09/04/24

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5387.D
Acq On : 30 Aug 2024 07:42 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 30 07:58:04 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52		1-Butanol	2500.000	1600.128	36.0#	58	0.00
53	P	Trichloroethene	50.000	50.823	-1.6	105	0.00
54	P	Methylcyclohexane	50.000	51.042	-2.1	107	0.00
55	P	1,2-Diclpropane	50.000	50.856	-1.7	107	0.00
56		Dibromomethane	50.000	48.772	2.5	101	0.00
57		1,4-Dioxane	1000.000	685.897	31.4#	70	0.00
58		Methyl Methacrylate	50.000	43.825	12.3	90	0.00
59	P	Bromodichloromethane	50.000	51.351	-2.7	104	0.00
60		2-Nitropropane	100.000	80.247	19.8	76	0.00
61		2-Chloroethylvinyl Ether	50.000	16.416	67.2#	33	0.00
62	P	cis-1,3-Dichloropropene	50.000	52.955	-5.9	105	0.00
63	P	4-Methyl-2-pentanone	50.000	39.546	20.9#	79	0.00
64	s	SURR3,Toluene-d8	50.000	50.813	-1.6	101	0.00
65	P	Toluene	50.000	50.518	-1.0	108	0.00
66	P	trans-1,3-Dichloropropene	50.000	52.742	-5.5	104	0.00
67		Ethyl Methacrylate	50.000	47.230	5.5	95	0.00
68	P	1,1,2-Trichloroethane	50.000	49.054	1.9	102	0.00
69	s	SURR2,BFB	50.000	50.520	-1.0	100	0.00
70	i	d5-Chlorobenzene	50.000	50.000	0.0	102	0.00
71	P	Tetrachloroethene	50.000	52.133	-4.3	112	0.00
72	P	2-Hexanone	50.000	37.571	24.9#	75	0.00
73		1,3-Dichloropropane	50.000	48.389	3.2	103	0.00
74	P	Dibromochloromethane	50.000	53.419	-6.8	103	0.00
75		N-Butyl Acetate	50.000	38.246	23.5#	77	0.00
76	P	1,2-Dibromoethane	50.000	48.154	3.7	99	0.00
77		3-Chlorobenzotrifluoride	50.000	48.041	3.9	106	0.00
78	P	Chlorobenzene	50.000	48.378	3.2	106	0.00
79		4-Chlorobenzotrifluoride	50.000	47.080	5.8	105	0.00
80		1,1,1,2-Tetrachloroethane	50.000	53.674	-7.3	109	0.00
81	P	Ethylbenzene	50.000	52.129	-4.3	110	0.00
82	P	(m+p)Xylene	100.000	102.668	-2.7	106	0.00
83	P	o-Xylene	50.000	51.546	-3.1	107	0.00
84	P	Styrene	50.000	52.174	-4.3	105	0.00
85	P	Bromoform	50.000	51.809	-3.6	99	0.00
86		2-Chlorobenzotrifluoride	50.000	46.130	7.7	103	0.00
87	P	Isopropylbenzene	50.000	48.824	2.4	100	0.00
88		Cyclohexanone	1000.000	882.420	11.8	84	0.00
89		trans-1,4-Dichloro-2-Butene	50.000	40.240	19.5	80	0.00
90	i	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	98	0.00
91	P	1,1,2,2-Tetrachloroethane	50.000	43.243	13.5	92	0.00
92		Bromobenzene	50.000	48.934	2.1	106	0.00
93		1,2,3-Trichloropropane	50.000	41.297	17.4	86	0.00
94		n-Propylbenzene	50.000	51.111	-2.2	107	0.00
95		2-Chlorotoluene	50.000	48.903	2.2	106	0.00
96		3-Chlorotoluene	50.000	44.967	10.1	99	0.00
97		4-Chlorotoluene	50.000	49.780	0.4	106	0.00
98		1,3,5-Trimethylbenzene	50.000	50.398	-0.8	104	0.00
99		tert-Butylbenzene	50.000	50.330	-0.7	106	0.00
100		1,2,4-Trimethylbenzene	50.000	50.026	-0.1	105	0.00
101		3,4-Dichlorobenzotrifluorid	50.000	47.418	5.2	105	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5387.D
Acq On : 30 Aug 2024 07:42 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 30 07:58:04 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
102		sec-Butylbenzene	50.000	51.467	-2.9	107	0.00
103		p-Isopropyltoluene	50.000	50.561	-1.1	102	0.00
104	P	1,3-Dclbenz	50.000	49.222	1.6	104	0.00
105	P	1,4-Dclbenz	50.000	49.414	1.2	104	0.00
106		2,4-Dichlorobenzotrifluorid	50.000	48.958	2.1	106	0.00
107		2,5-Dichlorobenzotrifluorid	50.000	48.051	3.9	104	0.00
108		n-Butylbenzene	50.000	50.865	-1.7	104	0.00
109	P	1,2-Dclbenz	50.000	49.165	1.7	103	0.00
110	P	1,2-Dibromo-3-chloropropane	50.000	40.048	19.9	74	0.00
111		Trielution Dichlorotoluene	150.000	138.703	7.5	97	0.00
112		1,3,5-Trichlorobenzene	50.000	46.520	7.0	99	0.00
113		Coelution Dichlorotoluene	100.000	93.832	6.2	98	0.00
114	P	1,2,4-Tcbenzene	50.000	50.174	-0.3	102	0.00
115		Hexachlorobt	50.000	55.161	-10.3	116	0.00
116		Naphthalen	50.000	40.911	18.2	79	0.00
117		1,2,3-Tclbenzene	50.000	47.612	4.8	98	0.00
118		2,4,5-Trichlorotoluene	50.000	43.883	12.2	91	0.00
119		2,3,6-Trichlorotoluene	50.000	44.692	10.6	89	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5387.D
Acq On : 30 Aug 2024 07:42 am
Operator : F.NAEGLER
Sample : CCV
Misc :
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Quant Time: Aug 30 07:58:04 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.989	168	380460	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.172	114	629204	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.573	117	567778	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	272758	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.830	113	205283	52.30	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 104.60%			
47) surr1,1,2-dichloroetha...	5.416	65	268242	50.00	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.00%			
64) SURR3,Toluene-d8	8.049	98	731869	50.81	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.62%			
69) SURR2,BFB	10.659	95	286100	50.52	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.04%			
Target Compounds						Qvalue
2) Chlorodifluoromethane	1.081	51	232702	44.945	ug/L	97
3) Dichlorodifluoromethane	1.075	85	213800	43.677	ug/L	98
4) Chloromethane	1.191	50	255516	48.671	ug/L	96
5) Vinyl Chloride	1.264	62	234064	44.176	ug/L	99
6) Bromomethane	1.465	94	115888	59.301	ug/L	96
7) Chloroethane	1.538	64	148931	44.537	ug/L	98
8) Freon 21	1.678	67	329072	47.386	ug/L	100
9) Trichlorofluoromethane	1.715	101	310846	54.274	ug/L	98
10) Diethyl Ether	1.934	59	197184	47.832	ug/L	97
11) Freon 123a	1.941	67	175303	45.368	ug/L	91
12) Freon 123	1.989	83	226939	48.137	ug/L	99
13) Acrolein	2.026	56	323791	532.935	ug/L	99
14) 1,1-Diclethene	2.105	96	165856	51.430	ug/L	99
15) Freon 113	2.111	101	176168	52.376	ug/L	92
16) Acetone	2.154	43	111135	36.494	ug/L	99
17) 2-Propanol	2.282	45	344495	573.620	ug/L	99
18) Iodomethane	2.227	142	291196	57.906	ug/L	96
19) Carbon Disulfide	2.282	76	455335	57.349	ug/L	99
20) Acetonitrile/Allyl Chl...	2.410	41	448558	279.932	ug/L	94
21) Methyl Acetate	2.434	43	192616	36.248	ug/L	99
22) Methylene Chloride	2.520	84	179359	50.478	ug/L	97
23) TBA	2.648	59	632391	568.113	ug/L	99
24) Acrylonitrile	2.758	53	543052	195.357	ug/L	100
25) Methyl-t-Butyl Ether	2.794	73	579670	46.855	ug/L	97
26) trans-1,2-Dichloroethene	2.788	96	180515	51.028	ug/L	95
27) 1,1-Diclethane	3.245	63	366765	50.275	ug/L	100
28) Vinyl Acetate	3.337	86	46099	64.865	ug/L #	91
29) DIPE	3.361	45	575993	44.368	ug/L	98
30) 2-Chloro-1,3-Butadiene	3.355	53	393921	53.231	ug/L	98
31) ETBE	3.843	59	609345	44.475	ug/L	98
32) 2,2-Dichloropropane	4.007	77	282151	58.829	ug/L	98
33) cis-1,2-Dichloroethene	4.019	96	200861	48.806	ug/L	95
34) 2-Butanone	4.074	43	136181	37.477	ug/L	99
35) Propionitrile	4.154	54	221679	178.570	ug/L	98
36) Bromochloromethane	4.379	130	133826	49.352	ug/L	97
37) Methacrylonitrile	4.397	67	94598	40.685	ug/L	99
38) Tetrahydrofuran	4.477	42	79753	34.411	ug/L	100
39) Chloroform	4.550	83	331105	48.825	ug/L	97
40) 1,1,1-Trichloroethane	4.830	97	306647	51.531	ug/L	97

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5387.D
Acq On : 30 Aug 2024 07:42 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 30 07:58:04 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.763	73	470858	44.540	ug/L	96
43) Cyclohexane	4.916	41	173468	46.826	ug/L	95
45) Carbontetrachloride	5.129	117	266820	50.917	ug/L	98
46) 1,1-Dichloropropene	5.147	75	238467	51.610	ug/L	99
48) Benzene	5.495	78	698340	51.893	ug/L	98
49) 1,2-Dichloroethane	5.550	62	322302	48.037	ug/L	99
50) Iso-Butyl Alcohol	5.562	43	219693	671.198	ug/L	99
51) n-Heptane	6.025	43	274809	54.520	ug/L	99
52) 1-Butanol	6.586	56	363568	1600.128	ug/L	99
53) Trichloroethene	6.507	130	202795	50.823	ug/L	99
54) Methylcyclohexane	6.745	55	289770	51.042	ug/L	99
55) 1,2-Diclpropane	6.806	63	207179	50.856	ug/L	98
56) Dibromomethane	6.952	93	124600	48.772	ug/L	93
57) 1,4-Dioxane	7.031	88	59851	685.897	ug/L	96
58) Methyl Methacrylate	7.056	69	149181	43.825	ug/L	97
59) Bromodichloromethane	7.190	83	246455	51.351	ug/L	100
60) 2-Nitropropane	7.494	41	137649	80.247	ug/L	97
61) 2-Chloroethylvinyl Ether	7.622	63	21600	16.416	ug/L	95
62) cis-1,3-Dichloropropene	7.751	75	289454	52.955	ug/L	98
63) 4-Methyl-2-pentanone	7.976	43	252370	39.546	ug/L	100
65) Toluene	8.122	91	771780	50.518	ug/L	100
66) trans-1,3-Dichloropropene	8.409	75	276880	52.742	ug/L	98
67) Ethyl Methacrylate	8.561	69	274571	47.230	ug/L	95
68) 1,1,2-Trichloroethane	8.598	97	180595	49.054	ug/L	100
71) Tetrachloroethene	8.726	164	145960	52.133	ug/L	98
72) 2-Hexanone	8.909	43	188019	37.571	ug/L	97
73) 1,3-Dichloropropane	8.769	76	296411	48.389	ug/L	99
74) Dibromochloromethane	9.000	129	206772	53.419	ug/L	100
75) N-Butyl Acetate	9.067	43	367008	38.246	ug/L	100
76) 1,2-Dibromoethane	9.092	107	195197	48.154	ug/L	99
77) 3-Chlorobenzotrifluoride	9.628	180	221632	48.041	ug/L	99
78) Chlorobenzene	9.598	112	514706	48.378	ug/L	99
79) 4-Chlorobenzotrifluoride	9.683	180	199116	47.080	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.689	131	205754	53.674	ug/L	97
81) Ethylbenzene	9.726	106	278860	52.129	ug/L	100
82) (m+p)Xylene	9.842	106	676082	102.668	ug/L	98
83) o-Xylene	10.201	106	338073	51.546	ug/L	95
84) Styrene	10.214	104	575610	52.174	ug/L	99
85) Bromoform	10.366	173	119961	51.809	ug/L	98
86) 2-Chlorobenzotrifluoride	10.451	180	215636	46.130	ug/L	97
87) Isopropylbenzene	10.537	105	820957	48.824	ug/L	99
88) Cyclohexanone	10.604	55	1096165	882.420	ug/L	98
89) trans-1,4-Dichloro-2-B...	10.860	53	95483	40.240	ug/L	96
91) 1,1,2,2-Tetrachloroethane	10.811	83	246855	43.243	ug/L	99
92) Bromobenzene	10.780	156	212914	48.934	ug/L	92
93) 1,2,3-Trichloropropane	10.835	110	85487	41.297	ug/L	99
94) n-Propylbenzene	10.896	91	1010225	51.111	ug/L	99
95) 2-Chlorotoluene	10.957	91	607866	48.903	ug/L	98
96) 3-Chlorotoluene	11.012	91	565507	44.967	ug/L	97
97) 4-Chlorotoluene	11.049	91	711726	49.780	ug/L	98
98) 1,3,5-Trimethylbenzene	11.055	105	754429	50.398	ug/L	99
99) tert-Butylbenzene	11.323	119	643013	50.330	ug/L	99
100) 1,2,4-Trimethylbenzene	11.366	105	759185	50.026	ug/L	98
101) 3,4-Dichlorobenzotrifl...	11.433	214	156265	47.418	ug/L	94
102) sec-Butylbenzene	11.506	105	920683	51.467	ug/L	99
103) p-Isopropyltoluene	11.634	119	795423	50.561	ug/L	98

1st FJ 08/30/24
2nd 09/04/24

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5387.D
Acq On : 30 Aug 2024 07:42 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 30 07:58:04 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

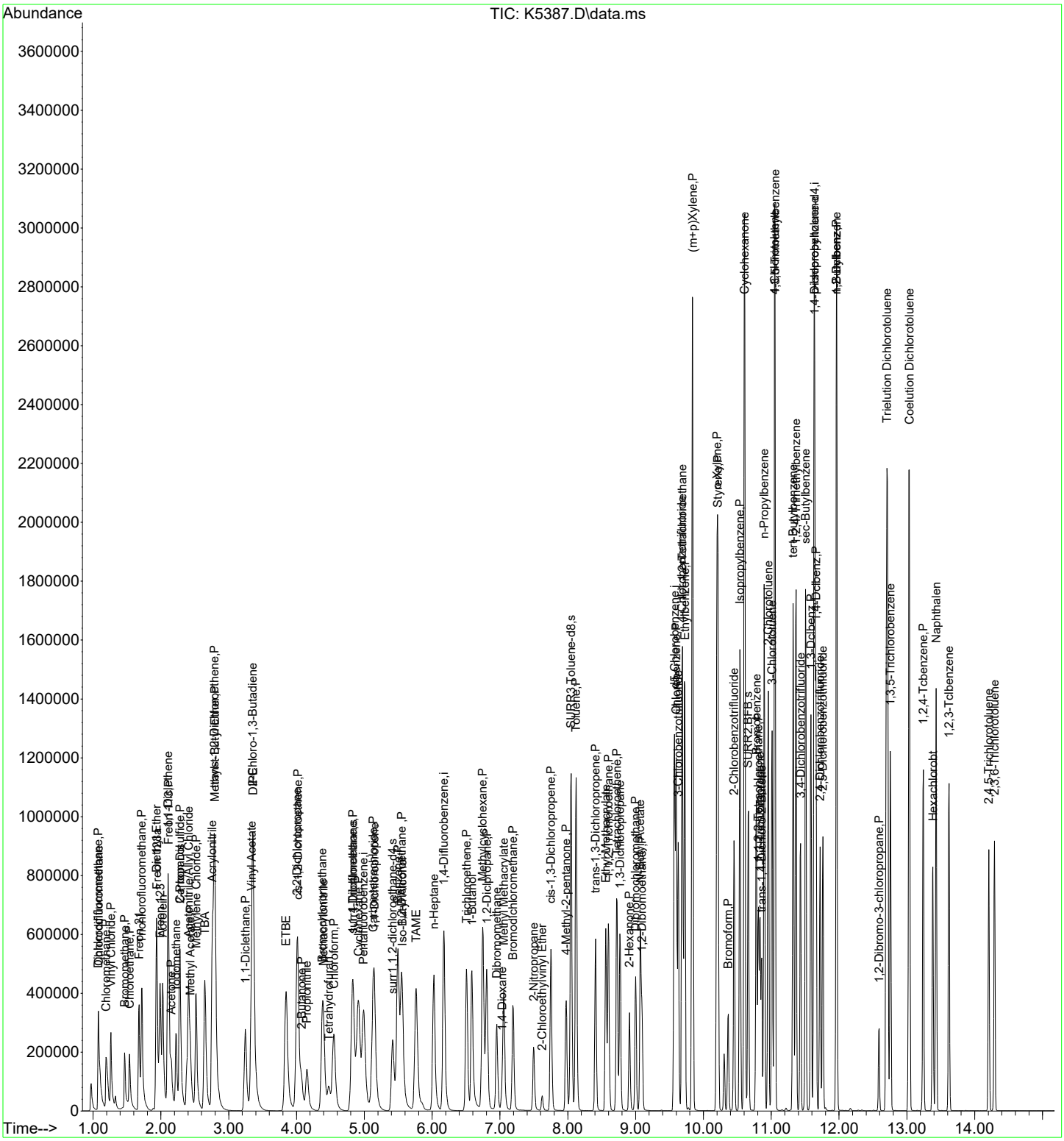
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.585	146	410184	49.222	ug/L	99
105) 1,4-Dclbenz	11.658	146	415768	49.414	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.719	214	142071	48.958	ug/L	97
107) 2,5-Dichlorobenzotrifl...	11.762	214	155432	48.051	ug/L	98
108) n-Butylbenzene	11.963	91	696865	50.865	ug/L	99
109) 1,2-Dclbenz	11.963	146	404507	49.165	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.591	157	57053	40.048	ug/L	94
111) Trielution Dichlorotol...	12.707	125	1075641	138.703	ug/L	98
112) 1,3,5-Trichlorobenzene	12.756	180	250094	46.520	ug/L	98
113) Coelution Dichlorotoluene	13.036	125	782716	93.832	ug/L	95
114) 1,2,4-Tcbenzene	13.243	180	261541	50.174	ug/L	98
115) Hexachlorobt	13.384	225	105847	55.161	ug/L	98
116) Naphthalen	13.432	128	806470	40.911	ug/L	99
117) 1,2,3-Tclbenzene	13.621	180	244584	47.612	ug/L	96
118) 2,4,5-Trichlorotoluene	14.207	159	179571	43.883	ug/L	99
119) 2,3,6-Trichlorotoluene	14.292	159	169203	44.692	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5387.D
Acq On : 30 Aug 2024 07:42 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 3 Sample Multiplier: 1

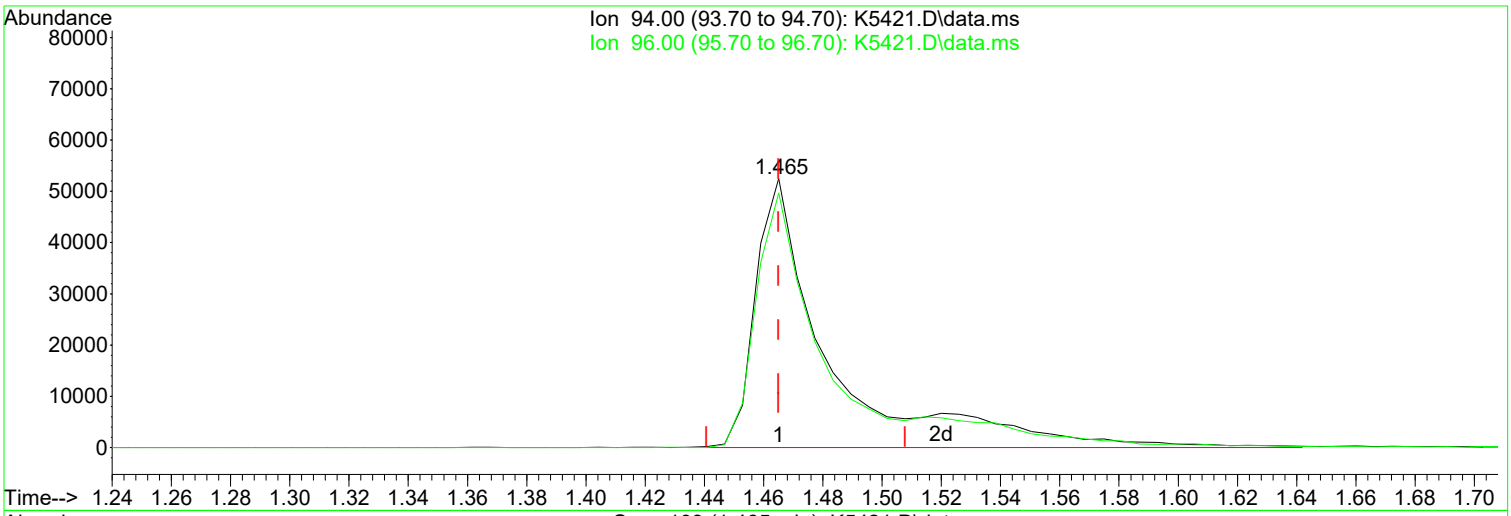
Quant Time: Aug 30 07:58:04 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

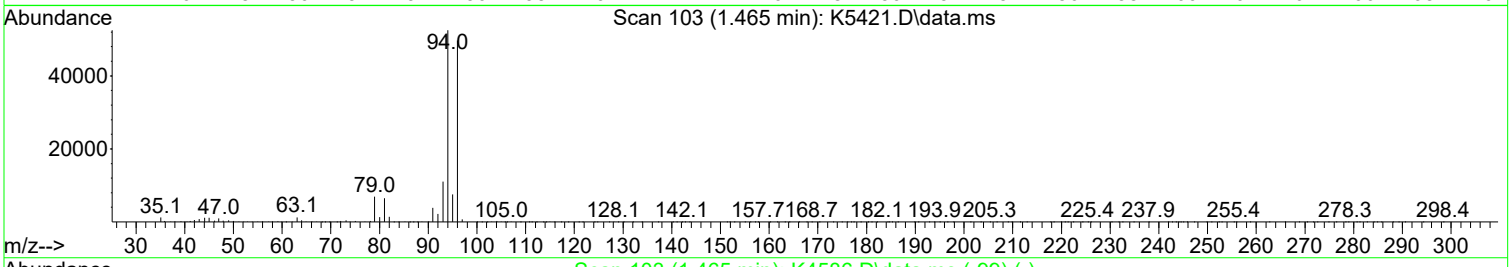


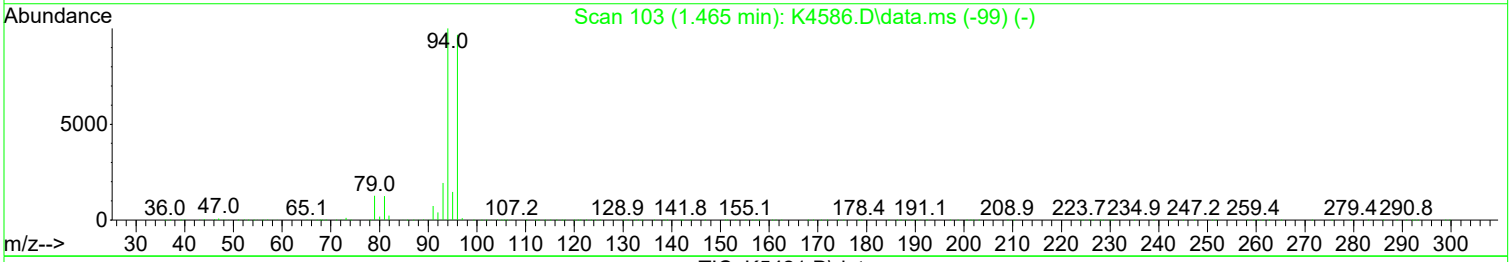
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5421.D
Acq On : 31 Aug 2024 11:00 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 31 11:16:19 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5421.D\data.ms

(6) Bromomethane (P)

1.465min (+ 0.000) 46.98 ug/L m

response 92298

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	96.60	94.71
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

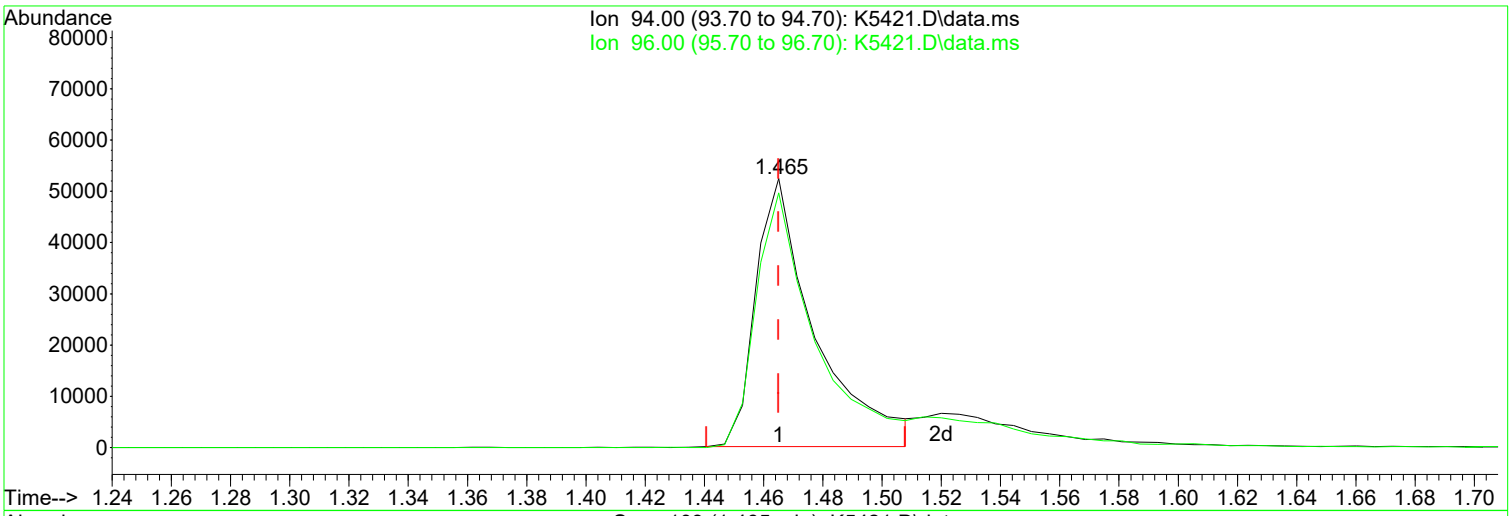
Poor integration.

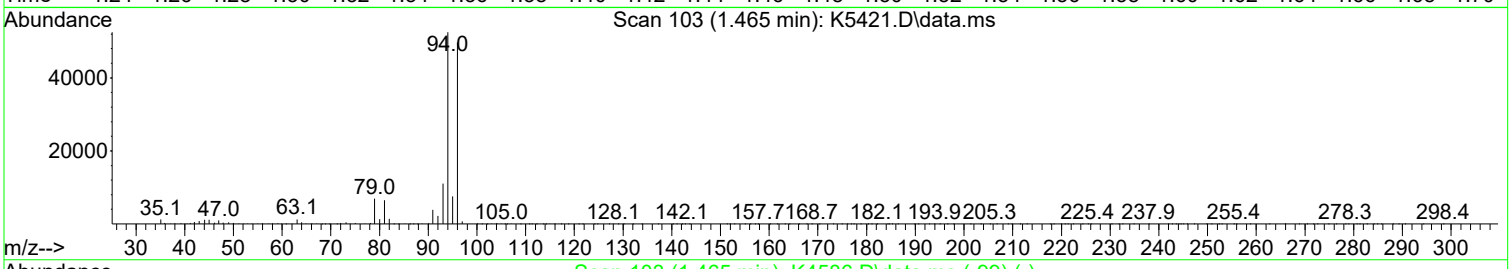
08/31/24

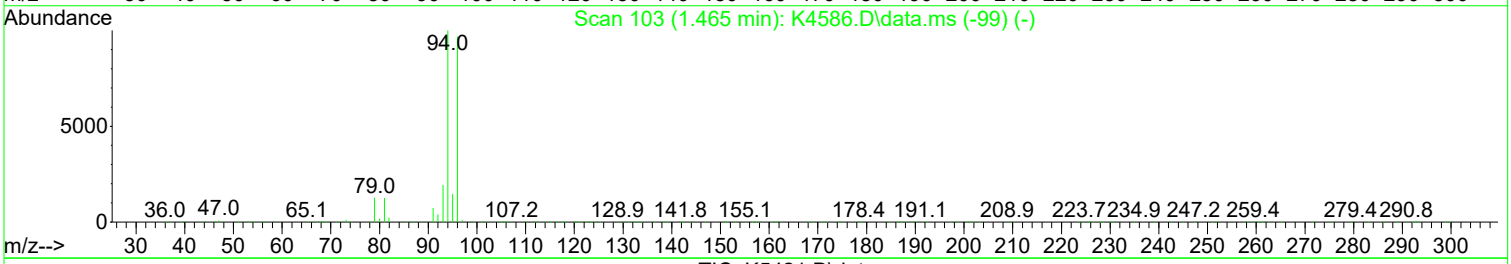
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5421.D
Acq On : 31 Aug 2024 11:00 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 31 11:16:19 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5421.D\data.ms

(6) Bromomethane (P)

1.465min (+ 0.000) 36.04 ug/L

response 72644

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	96.60	94.71
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

08/31/24

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5421.D
Acq On : 31 Aug 2024 11:00 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 31 11:16:19 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	i	Pentafluorobenzene	50.000	50.000	0.0	102	0.00
2		Chlorodifluoromethane	50.000	49.716	0.6	103	0.00
3	P	Dichlorodifluoromethane	50.000	45.005	10.0	89	0.00
4	P	Chloromethane	50.000	50.664	-1.3	107	-0.02
5	P	Vinyl Chloride	50.000	46.571	6.9	99	0.00
6	P	Bromomethane	50.000	46.979	6.0	95	0.00
7	P	Chloroethane	50.000	46.054	7.9	92	0.00
8		Freon 21	50.000	50.648	-1.3	107	0.00
9	P	Trichlorofluoromethane	50.000	55.838	-11.7	115	0.00
10		Diethyl Ether	50.000	52.870	-5.7	113	0.00
11		Freon 123a	50.000	51.495	-3.0	111	0.00
12		Freon 123	50.000	53.894	-7.8	112	0.00
13		Acrolein	250.000	607.823	-143.1#	235	0.00
14		1,1-Diclethene	50.000	54.546	-9.1	115	0.00
15	P	Freon 113	50.000	54.317	-8.6	116	0.00
16	P	Acetone	50.000	32.400	35.2#	65	0.00
17		2-Propanol	1000.000	775.500	22.4#	79	0.00
18		Iodomethane	50.000	52.992	-6.0	104	0.00
19	P	Carbon Disulfide	50.000	60.473	-20.9#	121	0.00
20		Acetonitrile/Allyl Chloride	300.000	313.552	-4.5	110	0.00
21	P	Methyl Acetate	50.000	43.135	13.7	89	0.00
22	P	Methylene Chloride	50.000	53.675	-7.3	109	0.00
23		TBA	1000.000	785.191	21.5#	79	0.00
24		Acrylonitrile	250.000	230.389	7.8	95	0.00
25	P	Methyl-t-Butyl Ether	50.000	51.697	-3.4	109	0.00
26	P	trans-1,2-Dichloroethene	50.000	54.273	-8.5	114	0.00
27	P	1,1-Diclethane	50.000	53.322	-6.6	111	0.00
28		Vinyl Acetate	50.000	72.859	-45.7#	157	0.00
29		DIPE	50.000	47.793	4.4	102	0.00
30		2-Chloro-1,3-Butadiene	50.000	54.574	-9.1	112	0.00
31		ETBE	50.000	47.853	4.3	101	0.00
32		2,2-Dichloropropane	50.000	62.753	-25.5#	119	0.00
33	P	cis-1,2-Dichloroethene	50.000	51.851	-3.7	110	0.00
34	P	2-Butanone	50.000	41.297	17.4	83	-0.01
35		Propionitrile	250.000	219.312	12.3	91	0.00
36		Bromochloromethane	50.000	52.745	-5.5	111	0.00
37		Methacrylonitrile	50.000	47.853	4.3	98	0.00
38		Tetrahydrofuran	50.000	42.368	15.3	88	0.00
39	P	Chloroform	50.000	51.642	-3.3	112	0.00
40	P	1,1,1-Trichloroethane	50.000	53.639	-7.3	110	0.00
41		TAME	50.000	47.907	4.2	101	0.00
42	i	1,4-Difluorobenzene	50.000	50.000	0.0	99	0.00
43	P	Cyclohexane	50.000	51.208	-2.4	110	0.00
44	s	surr4,Dibrflmethane	50.000	52.230	-4.5	101	0.00
45	P	Carbontetrachloride	50.000	52.964	-5.9	110	0.00
46		1,1-Dichloropropene	50.000	53.531	-7.1	114	0.00
47	s	surr1,1,2-dichloroethane-d4	50.000	50.607	-1.2	98	0.00
48	P	Benzene	50.000	54.219	-8.4	113	0.00
49	P	1,2-Dichloroethane	50.000	50.942	-1.9	107	0.00
50		Iso-Butyl Alcohol	1000.000	911.055	8.9	85	0.00
51		n-Heptane	50.000	55.434	-10.9	119	0.00

1st FJ 08/31/24
2nd AM 09/03/24

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5421.D
Acq On : 31 Aug 2024 11:00 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 31 11:16:19 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52		1-Butanol	2500.000	2068.815	17.2	75	0.00
53	P	Trichloroethene	50.000	52.591	-5.2	107	0.00
54	P	Methylcyclohexane	50.000	55.059	-10.1	113	0.00
55	P	1,2-Diclpropane	50.000	54.323	-8.6	112	0.00
56		Dibromomethane	50.000	52.631	-5.3	106	0.00
57		1,4-Dioxane	1000.000	885.058	11.5	88	0.00
58		Methyl Methacrylate	50.000	50.099	-0.2	100	0.00
59	P	Bromodichloromethane	50.000	54.681	-9.4	108	0.00
60		2-Nitropropane	100.000	97.548	2.5	90	0.00
61		2-Chloroethylvinyl Ether	50.000	21.783	56.4#	43	0.00
62	P	cis-1,3-Dichloropropene	50.000	57.433	-14.9	111	0.00
63	P	4-Methyl-2-pentanone	50.000	45.781	8.4	89	0.00
64	s	SURR3,Toluene-d8	50.000	51.698	-3.4	101	0.00
65	P	Toluene	50.000	52.686	-5.4	110	0.00
66	P	trans-1,3-Dichloropropene	50.000	57.595	-15.2	111	0.00
67		Ethyl Methacrylate	50.000	53.233	-6.5	105	0.00
68	P	1,1,2-Trichloroethane	50.000	52.709	-5.4	107	0.00
69	s	SURR2,BFB	50.000	51.043	-2.1	99	0.00
70	i	d5-Chlorobenzene	50.000	50.000	0.0	99	0.00
71	P	Tetrachloroethene	50.000	55.016	-10.0	115	0.00
72	P	2-Hexanone	50.000	43.466	13.1	84	0.00
73		1,3-Dichloropropane	50.000	52.018	-4.0	107	0.00
74	P	Dibromochloromethane	50.000	58.346	-16.7	109	0.00
75		N-Butyl Acetate	50.000	45.917	8.2	89	0.00
76	P	1,2-Dibromoethane	50.000	52.519	-5.0	105	0.00
77		3-Chlorobenzotrifluoride	50.000	54.298	-8.6	117	0.00
78	P	Chlorobenzene	50.000	51.236	-2.5	109	0.00
79		4-Chlorobenzotrifluoride	50.000	54.576	-9.2	118	0.00
80		1,1,1,2-Tetrachloroethane	50.000	56.570	-13.1	111	0.00
81	P	Ethylbenzene	50.000	54.184	-8.4	111	0.00
82	P	(m+p)Xylene	100.000	109.181	-9.2	110	0.00
83	P	o-Xylene	50.000	53.637	-7.3	108	0.00
84	P	Styrene	50.000	55.682	-11.4	109	0.00
85	P	Bromoform	50.000	58.010	-16.0	108	0.00
86		2-Chlorobenzotrifluoride	50.000	52.343	-4.7	113	0.00
87	P	Isopropylbenzene	50.000	50.765	-1.5	100	0.00
88		Cyclohexanone	1000.000	815.098	18.5	76	0.00
89		trans-1,4-Dichloro-2-Butene	50.000	46.526	6.9	90	0.00
90	i	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	92	0.00
91	P	1,1,2,2-Tetrachloroethane	50.000	51.409	-2.8	103	0.00
92		Bromobenzene	50.000	54.191	-8.4	110	0.00
93		1,2,3-Trichloropropane	50.000	49.871	0.3	98	0.00
94		n-Propylbenzene	50.000	55.044	-10.1	109	0.00
95		2-Chlorotoluene	50.000	53.084	-6.2	108	0.00
96		3-Chlorotoluene	50.000	50.968	-1.9	105	0.00
97		4-Chlorotoluene	50.000	54.236	-8.5	109	0.00
98		1,3,5-Trimethylbenzene	50.000	54.043	-8.1	105	0.00
99		tert-Butylbenzene	50.000	53.739	-7.5	106	0.00
100		1,2,4-Trimethylbenzene	50.000	54.311	-8.6	107	0.00
101		3,4-Dichlorobenzotrifluorid	50.000	54.403	-8.8	113	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5421.D
Acq On : 31 Aug 2024 11:00 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 31 11:16:19 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
102		sec-Butylbenzene	50.000	54.783	-9.6	108	0.00
103		p-Isopropyltoluene	50.000	54.008	-8.0	103	0.00
104	P	1,3-Dclbenz	50.000	54.269	-8.5	108	0.00
105	P	1,4-Dclbenz	50.000	54.467	-8.9	108	0.00
106		2,4-Dichlorobenzotrifluorid	50.000	56.271	-12.5	115	0.00
107		2,5-Dichlorobenzotrifluorid	50.000	54.405	-8.8	111	0.00
108		n-Butylbenzene	50.000	54.637	-9.3	105	0.00
109	P	1,2-Dclbenz	50.000	53.102	-6.2	105	0.00
110	P	1,2-Dibromo-3-chloropropane	50.000	50.169	-0.3	88	0.00
111		Trielution Dichlorotoluene	150.000	154.545	-3.0	102	0.00
112		1,3,5-Trichlorobenzene	50.000	52.661	-5.3	105	0.00
113		Coelution Dichlorotoluene	100.000	103.533	-3.5	102	0.00
114	P	1,2,4-Tcbenzene	50.000	55.716	-11.4	106	0.00
115		Hexachlorobt	50.000	57.760	-15.5	115	0.00
116		Naphthalen	50.000	48.500	3.0	89	0.00
117		1,2,3-Tclbenzene	50.000	53.584	-7.2	103	0.00
118		2,4,5-Trichlorotoluene	50.000	49.844	0.3	97	0.00
119		2,3,6-Trichlorotoluene	50.000	0.000	100.0#	0	-14.30#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5421.D
Acq On : 31 Aug 2024 11:00 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 31 11:16:19 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.989	168	371575	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.172	114	615006	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.573	117	551221	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	256641	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.830	113	200375	52.23	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 104.46%			
47) surr1,1,2-dichloroetha...	5.416	65	265363	50.61	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 101.22%			
64) SURR3,Toluene-d8	8.049	98	727818	51.70	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 103.40%			
69) SURR2,BFB	10.659	95	282537	51.04	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.08%			
Target Compounds						Qvalue
2) Chlorodifluoromethane	1.081	51	251391	49.716	ug/L	99
3) Dichlorodifluoromethane	1.075	85	215152	45.005	ug/L	99
4) Chloromethane	1.191	50	259766	50.664	ug/L	98
5) Vinyl Chloride	1.264	62	240992	46.571	ug/L	100
6) Bromomethane	1.465	94	92298m	46.979	ug/L	
7) Chloroethane	1.538	64	150407	46.054	ug/L	100
8) Freon 21	1.678	67	343514	50.648	ug/L	98
9) Trichlorofluoromethane	1.715	101	312332	55.838	ug/L	99
10) Diethyl Ether	1.935	59	212862	52.870	ug/L	99
11) Freon 123a	1.941	67	194334	51.495	ug/L	95
12) Freon 123	1.983	83	248148	53.894	ug/L	100
13) Acrolein	2.026	56	360666	607.823	ug/L	100
14) 1,1-Diclethene	2.105	96	171796	54.546	ug/L	97
15) Freon 113	2.111	101	178429	54.317	ug/L	98
16) Acetone	2.154	43	96361	32.400	ug/L	98
17) 2-Propanol	2.282	45	454860	775.500	ug/L	97
18) Iodomethane	2.221	142	260263	52.992	ug/L	95
19) Carbon Disulfide	2.276	76	468923	60.473	ug/L	99
20) Acetonitrile/Allyl Chl...	2.404	41	490698	313.552	ug/L	97
21) Methyl Acetate	2.434	43	223859	43.135	ug/L	98
22) Methylene Chloride	2.520	84	186144	53.675	ug/L	98
23) TBA	2.648	59	853618	785.191	ug/L	99
24) Acrylonitrile	2.758	53	625477	230.389	ug/L	100
25) Methyl-t-Butyl Ether	2.794	73	624631	51.697	ug/L	97
26) trans-1,2-Dichloroethene	2.782	96	187512	54.273	ug/L	94
27) 1,1-Diclethane	3.245	63	379914	53.322	ug/L	98
28) Vinyl Acetate	3.331	86	51529	72.859	ug/L	99
29) DIPE	3.355	45	605960	47.793	ug/L	86
30) 2-Chloro-1,3-Butadiene	3.355	53	394426	54.574	ug/L	95
31) ETBE	3.843	59	640308	47.853	ug/L	98
32) 2,2-Dichloropropane	4.007	77	293942	62.753	ug/L	98
33) cis-1,2-Dichloroethene	4.013	96	208410	51.851	ug/L	100
34) 2-Butanone	4.068	43	146556	41.297	ug/L	99
35) Propionitrile	4.154	54	265898	219.312	ug/L	100
36) Bromochloromethane	4.379	130	139687	52.745	ug/L	99
37) Methacrylonitrile	4.398	67	108668	47.853	ug/L	99
38) Tetrahydrofuran	4.477	42	95901	42.368	ug/L	96
39) Chloroform	4.550	83	342025	51.642	ug/L	96
40) 1,1,1-Trichloroethane	4.830	97	311734	53.639	ug/L	98

1st FJ 08/31/24
2nd AM 09/03/24

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5421.D
Acq On : 31 Aug 2024 11:00 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 31 11:16:19 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) TAME	5.763	73	494618	47.907 ug/L	96
43) Cyclohexane	4.910	41	185421	51.208 ug/L	95
45) Carbontetrachloride	5.123	117	271284	52.964 ug/L	97
46) 1,1-Dichloropropene	5.141	75	241765	53.531 ug/L	98
48) Benzene	5.489	78	713178	54.219 ug/L	98
49) 1,2-Dichloroethane	5.544	62	334078	50.942 ug/L	99
50) Iso-Butyl Alcohol	5.556	43	291473	911.055 ug/L	98
51) n-Heptane	6.019	43	273112	55.434 ug/L	99
52) 1-Butanol	6.586	56	468177	2068.815 ug/L	99
53) Trichloroethene	6.507	130	205117	52.591 ug/L	97
54) Methylcyclohexane	6.745	55	305526	55.059 ug/L	96
55) 1,2-Diclpropane	6.806	63	216312	54.323 ug/L	99
56) Dibromomethane	6.952	93	131425	52.631 ug/L	93
57) 1,4-Dioxane	7.031	88	75487	885.058 ug/L	93
58) Methyl Methacrylate	7.056	69	166688	50.099 ug/L	99
59) Bromodichloromethane	7.190	83	256512	54.681 ug/L	99
60) 2-Nitropropane	7.495	41	163549	97.548 ug/L	93
61) 2-Chloroethylvinyl Ether	7.623	63	28016	21.783 ug/L	91
62) cis-1,3-Dichloropropene	7.751	75	306848	57.433 ug/L	98
63) 4-Methyl-2-pentanone	7.976	43	285571	45.781 ug/L	96
65) Toluene	8.122	91	786740	52.686 ug/L	99
66) trans-1,3-Dichloropropene	8.409	75	295536	57.595 ug/L	98
67) Ethyl Methacrylate	8.561	69	302488	53.233 ug/L	97
68) 1,1,2-Trichloroethane	8.598	97	189674	52.709 ug/L	100
71) Tetrachloroethene	8.726	164	149541	55.016 ug/L	98
72) 2-Hexanone	8.909	43	211177	43.466 ug/L	97
73) 1,3-Dichloropropane	8.769	76	309351	52.018 ug/L	99
74) Dibromochloromethane	9.000	129	219259	58.346 ug/L	98
75) N-Butyl Acetate	9.067	43	427770	45.917 ug/L	99
76) 1,2-Dibromoethane	9.092	107	206681	52.519 ug/L	98
77) 3-Chlorobenzotrifluoride	9.628	180	243197	54.298 ug/L	98
78) Chlorobenzene	9.598	112	529216	51.236 ug/L	98
79) 4-Chlorobenzotrifluoride	9.683	180	224088	54.576 ug/L	98
80) 1,1,1,2-Tetrachloroethane	9.689	131	210531	56.570 ug/L	99
81) Ethylbenzene	9.726	106	281400	54.184 ug/L	98
82) (m+p)Xylene	9.836	106	698002	109.181 ug/L	98
83) o-Xylene	10.201	106	341524	53.637 ug/L	99
84) Styrene	10.214	104	596400	55.682 ug/L	99
85) Bromoform	10.366	173	131842	58.010 ug/L	99
86) 2-Chlorobenzotrifluoride	10.451	180	237543	52.343 ug/L	98
87) Isopropylbenzene	10.537	105	828703	50.765 ug/L	100
88) Cyclohexanone	10.604	55	983010	815.098 ug/L	99
89) trans-1,4-Dichloro-2-B...	10.860	53	107178	46.526 ug/L	95
91) 1,1,2,2-Tetrachloroethane	10.811	83	276131	51.409 ug/L	99
92) Bromobenzene	10.781	156	221856	54.191 ug/L	92
93) 1,2,3-Trichloropropane	10.835	110	97135	49.871 ug/L	98
94) n-Propylbenzene	10.896	91	1023665	55.044 ug/L	99
95) 2-Chlorotoluene	10.957	91	620851	53.084 ug/L	98
96) 3-Chlorotoluene	11.012	91	603103	50.968 ug/L	97
97) 4-Chlorotoluene	11.049	91	729620	54.236 ug/L	99
98) 1,3,5-Trimethylbenzene	11.055	105	761195	54.043 ug/L	97
99) tert-Butylbenzene	11.323	119	645994	53.739 ug/L	99
100) 1,2,4-Trimethylbenzene	11.366	105	775518	54.311 ug/L	98
101) 3,4-Dichlorobenzotrifl...	11.433	214	168688	54.403 ug/L	94
102) sec-Butylbenzene	11.506	105	922094	54.783 ug/L	98
103) p-Isopropyltoluene	11.634	119	799451	54.008 ug/L	98

1st FJ 08/31/24
2nd AM 09/03/24

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5421.D
Acq On : 31 Aug 2024 11:00 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 31 11:16:19 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

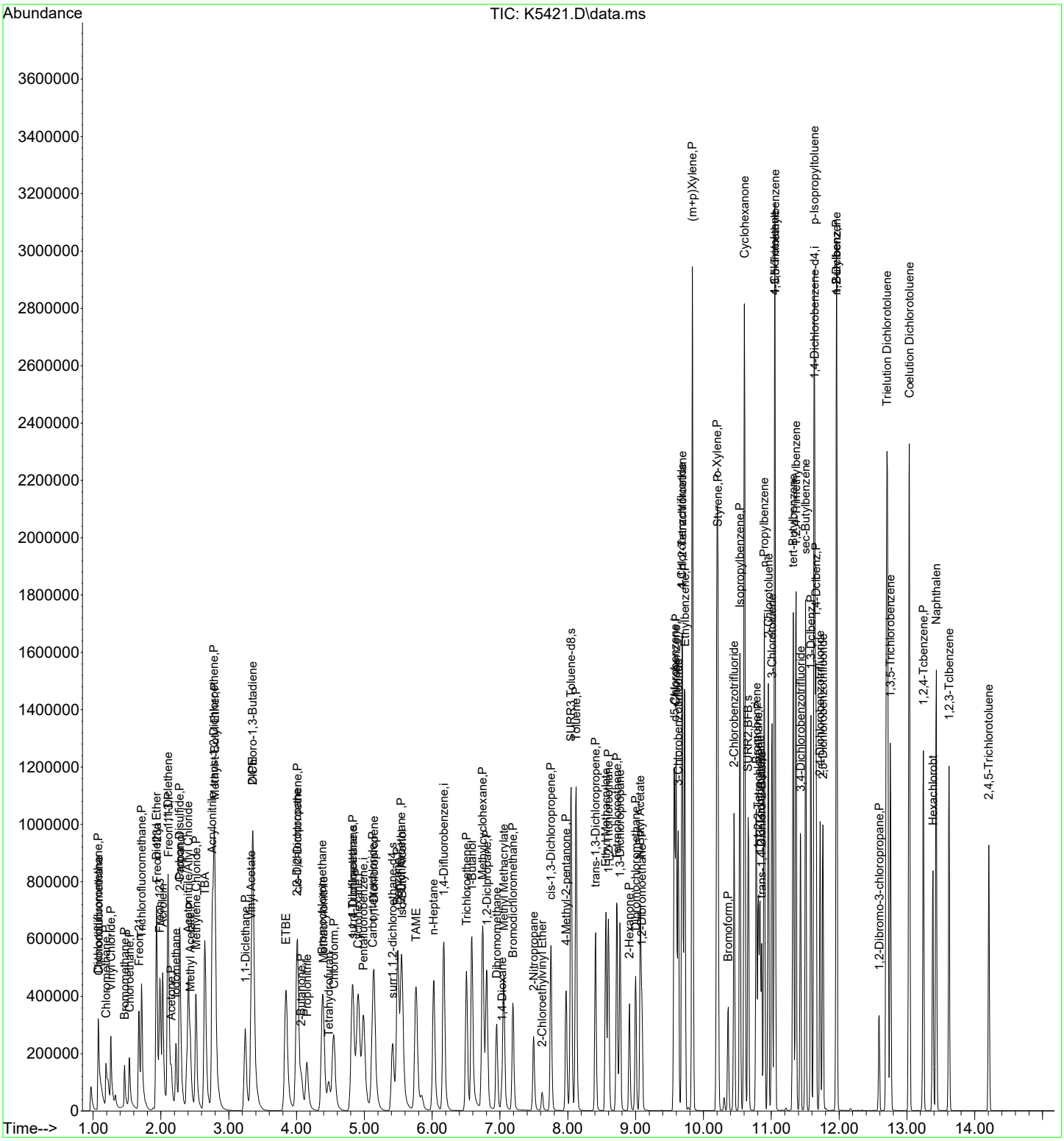
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.585	146	425516	54.269	ug/L	98
105) 1,4-Dclbenz	11.658	146	431203	54.467	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.719	214	153645	56.271	ug/L	97
107) 2,5-Dichlorobenzotrifl...	11.762	214	165586	54.405	ug/L	99
108) n-Butylbenzene	11.963	91	704314	54.637	ug/L	99
109) 1,2-Dclbenz	11.963	146	411086	53.102	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.591	157	68133	50.169	ug/L	91
111) Trielution Dichlorotol...	12.707	125	1127682	154.545	ug/L	98
112) 1,3,5-Trichlorobenzene	12.756	180	266381	52.661	ug/L	99
113) Coelution Dichlorotoluene	13.036	125	812605	103.533	ug/L	95
114) 1,2,4-Tcbenzene	13.243	180	273270	55.716	ug/L	98
115) Hexachlorobt	13.384	225	104285	57.760	ug/L	96
116) Naphthalen	13.432	128	899572	48.500	ug/L	100
117) 1,2,3-Tclbenzene	13.621	180	258996	53.584	ug/L	97
118) 2,4,5-Trichlorotoluene	14.207	159	191914	49.844	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5421.D
Acq On : 31 Aug 2024 11:00 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 31 11:16:19 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration


Abundance
TIC: K5421.D\data.ms
Time-->
1.00
2.00
3.00
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
12.00
13.00
14.00
(m+p)Xylene,P
Cyclohexanone
Styrene,P
o-Xylene,P
Propylbenzene
2-Chlorobenzotrifluoride
Isopropylbenzene,P
Bromoform,P
1,2-Dibromo-3-chloropropane,P
1,3,5-Trichlorobenzene
Trielution Dichlorotoluene
Coelution Dichlorotoluene
Hexachlorobt
1,2,4-Tcbenzene,P
Naphthalen
1,2,3-Tcbenzene
2,4,5-Trichlorotoluene
ETBE
TAME
n-Heptane
1,4-Difluorobenzene,i
Trichloroethene,P
Butanol
1,2-Dichloropropane,P
Methylcyclohexane,P
Dibromomethane
1,4-Dioxane
Methyl Methacrylate
Bromodichloromethane,P
2-Nitropropane
cis-1,3-Dichloropropene,P
2-Chloroethylvinyl Ether
4-Methyl-2-pentanone,P
trans-1,3-Dichloropropene,P
1,1,2-Trichloroethane,P
Toluene-d8,s
Toluene,P
2-Hexanone,P
Tetrachloroethene,P
1,2-Dibromoethane,P
Chlorobenzene,P
Ethylbenzene,P
1,1,1,2-Tetrachloroethane,P
Ethyl Acetate
1,1-Dichloropropene,P
Tetrahydrofuran,P
Chloroform,P
Pentachloroethane
surr1,2-dichloroethane-d4,s
Carbon Tetrachloride,P
Dibromofluoromethane,P
1,1,1-Trichloroethane,P
1,1-Dichloroethene,P
Methylene Chloride,P
Acrylonitrile,P
TBA
Methyl Acetate,P
Carbon Disulfide,P
Freon 113
Freon 12
Chloromethane,P
Vinyl Chloride,P
Chloroethane,P
Bromomethane,P
Freon 114
Freon 11
Ethyl Ether
Acetone,P
2-Butanone,P
Propionitrile
Chloroprene
1,1-Dichloroethane,P
Vinyl Acetate
DCB
Boro-1,3-Butadiene
2,2-Dichloropropane,P
Bromochloromethane
Chlorobutane,P
Chlorodifluoromethane,P
Dichlorodifluoromethane,P
Freon 123
Freon 11-DE
Freon 11-DE
Acetonitrile,AM
Methyl Acrylonitrile
Acrylonitrile,P
Methyl Methacrylate
Dichloroethene
Dichloroethene
Dichloroethene

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA17\Data\090124\
Data File : K5452.D
Acq On : 01 Sep 2024 12:31 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 12:47:17 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	i	Pentafluorobenzene	50.000	50.000	0.0	105	0.00
2		Chlorodifluoromethane	50.000	44.405	11.2	95	0.00
3	P	Dichlorodifluoromethane	50.000	40.442	19.1	83	0.00
4	P	Chloromethane	50.000	45.130	9.7	99	-0.02
5	P	Vinyl Chloride	50.000	42.125	15.8	92	0.00
6	P	Bromomethane	50.000	44.859	10.3	94	0.00
7	P	Chloroethane	50.000	41.251	17.5	85	0.00
8		Freon 21	50.000	46.695	6.6	101	0.00
9	P	Trichlorofluoromethane	50.000	50.601	-1.2	107	0.00
10		Diethyl Ether	50.000	49.029	1.9	108	0.00
11		Freon 123a	50.000	46.642	6.7	104	0.00
12		Freon 123	50.000	49.717	0.6	107	0.00
13		Acrolein	250.000	584.386	-133.8#	233	0.00
14		1,1-Diclethene	50.000	49.194	1.6	107	0.00
15	P	Freon 113	50.000	47.711	4.6	105	0.00
16	P	Acetone	50.000	31.059	37.9#	64	0.00
17		2-Propanol	1000.000	680.777	31.9#	71	0.00
18		Iodomethane	50.000	51.188	-2.4	103	0.00
19	P	Carbon Disulfide	50.000	55.789	-11.6	115	0.00
20		Acetonitrile/Allyl Chloride	300.000	287.852	4.0	104	0.00
21	P	Methyl Acetate	50.000	39.264	21.5#	83	0.00
22	P	Methylene Chloride	50.000	50.760	-1.5	106	0.00
23		TBA	1000.000	689.489	31.1#	72	0.00
24		Acrylonitrile	250.000	214.577	14.2	91	0.00
25	P	Methyl-t-Butyl Ether	50.000	48.651	2.7	106	0.00
26	P	trans-1,2-Dichloroethene	50.000	49.028	1.9	106	0.00
27	P	1,1-Diclethane	50.000	48.992	2.0	105	0.00
28		Vinyl Acetate	50.000	69.513	-39.0#	154	0.00
29		DIPE	50.000	44.772	10.5	98	0.00
30		2-Chloro-1,3-Butadiene	50.000	51.317	-2.6	108	0.00
31		ETBE	50.000	44.837	10.3	97	0.00
32		2,2-Dichloropropane	50.000	56.496	-13.0	111	0.00
33	P	cis-1,2-Dichloroethene	50.000	47.965	4.1	105	0.00
34	P	2-Butanone	50.000	40.062	19.9	83	0.00
35		Propionitrile	250.000	202.764	18.9	86	0.00
36		Bromochloromethane	50.000	50.180	-0.4	109	0.00
37		Methacrylonitrile	50.000	44.969	10.1	95	0.00
38		Tetrahydrofuran	50.000	38.811	22.4#	84	0.00
39	P	Chloroform	50.000	48.009	4.0	107	0.00
40	P	1,1,1-Trichloroethane	50.000	48.606	2.8	103	0.00
41		TAME	50.000	44.675	10.7	97	0.00
42	i	1,4-Difluorobenzene	50.000	50.000	0.0	102	0.00
43	P	Cyclohexane	50.000	47.071	5.9	104	0.00
44	s	surr4,Dibrflmethane	50.000	50.630	-1.3	101	0.00
45	P	Carbontetrachloride	50.000	46.996	6.0	100	0.00
46		1,1-Dichloropropene	50.000	48.371	3.3	105	0.00
47	s	surr1,1,2-dichloroethane-d4	50.000	48.408	3.2	96	0.00
48	P	Benzene	50.000	50.409	-0.8	107	0.00
49	P	1,2-Dichloroethane	50.000	48.949	2.1	105	0.00
50		Iso-Butyl Alcohol	1000.000	814.119	18.6	78	0.00
51		n-Heptane	50.000	45.953	8.1	101	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA17\Data\090124\
Data File : K5452.D
Acq On : 01 Sep 2024 12:31 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 12:47:17 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52		1-Butanol	2500.000	1830.084	26.8#	67	0.00
53	P	Trichloroethene	50.000	48.304	3.4	101	0.00
54	P	Methylcyclohexane	50.000	51.519	-3.0	108	0.00
55	P	1,2-Diclpropane	50.000	50.022	-0.0	105	0.00
56		Dibromomethane	50.000	50.003	-0.0	103	0.00
57		1,4-Dioxane	1000.000	798.917	20.1#	81	0.00
58		Methyl Methacrylate	50.000	47.983	4.0	98	0.00
59	P	Bromodichloromethane	50.000	51.158	-2.3	104	0.00
60		2-Nitropropane	100.000	91.548	8.5	86	0.00
61		2-Chloroethylvinyl Ether	50.000	21.841	56.3#	45	0.00
62	P	cis-1,3-Dichloropropene	50.000	53.414	-6.8	106	0.00
63	P	4-Methyl-2-pentanone	50.000	43.990	12.0	88	0.00
64	s	SURR3,Toluene-d8	50.000	50.736	-1.5	101	0.00
65	P	Toluene	50.000	47.998	4.0	103	0.00
66	P	trans-1,3-Dichloropropene	50.000	53.552	-7.1	105	0.00
67		Ethyl Methacrylate	50.000	50.470	-0.9	102	0.00
68	P	1,1,2-Trichloroethane	50.000	49.341	1.3	103	0.00
69	s	SURR2,BFB	50.000	50.059	-0.1	99	0.00
70	i	d5-Chlorobenzene	50.000	50.000	0.0	101	0.00
71	P	Tetrachloroethene	50.000	48.768	2.5	105	0.00
72	P	2-Hexanone	50.000	41.155	17.7	82	0.00
73		1,3-Dichloropropane	50.000	49.364	1.3	104	0.00
74	P	Dibromochloromethane	50.000	54.869	-9.7	106	0.00
75		N-Butyl Acetate	50.000	41.782	16.4	84	0.00
76	P	1,2-Dibromoethane	50.000	50.544	-1.1	104	0.00
77		3-Chlorobenzotrifluoride	50.000	50.794	-1.6	112	0.00
78	P	Chlorobenzene	50.000	47.018	6.0	103	0.00
79		4-Chlorobenzotrifluoride	50.000	49.947	0.1	111	0.00
80		1,1,1,2-Tetrachloroethane	50.000	52.056	-4.1	105	0.00
81	P	Ethylbenzene	50.000	47.985	4.0	101	0.00
82	P	(m+p)Xylene	100.000	96.720	3.3	100	0.00
83	P	o-Xylene	50.000	48.659	2.7	101	0.00
84	P	Styrene	50.000	50.253	-0.5	101	0.00
85	P	Bromoform	50.000	54.490	-9.0	104	0.00
86		2-Chlorobenzotrifluoride	50.000	47.949	4.1	107	0.00
87	P	Isopropylbenzene	50.000	44.426	11.1	90	0.00
88		Cyclohexanone	1000.000	734.252	26.6#	70	0.00
89		trans-1,4-Dichloro-2-Butene	50.000	42.056	15.9	84	0.00
90	i	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	96	0.00
91	P	1,1,2,2-Tetrachloroethane	50.000	48.530	2.9	102	0.00
92		Bromobenzene	50.000	48.542	2.9	103	0.00
93		1,2,3-Trichloropropane	50.000	45.209	9.6	93	0.00
94		n-Propylbenzene	50.000	47.361	5.3	98	0.00
95		2-Chlorotoluene	50.000	46.236	7.5	99	0.00
96		3-Chlorotoluene	50.000	46.022	8.0	100	0.00
97		4-Chlorotoluene	50.000	47.468	5.1	100	0.00
98		1,3,5-Trimethylbenzene	50.000	46.834	6.3	96	0.00
99		tert-Butylbenzene	50.000	45.294	9.4	94	0.00
100		1,2,4-Trimethylbenzene	50.000	46.634	6.7	96	0.00
101		3,4-Dichlorobenzotrifluorid	50.000	48.467	3.1	105	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA17\Data\090124\
Data File : K5452.D
Acq On : 01 Sep 2024 12:31 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 12:47:17 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
102		sec-Butylbenzene	50.000	45.742	8.5	94	0.00
103		p-Isopropyltoluene	50.000	45.784	8.4	91	0.00
104	P	1,3-Dclbenz	50.000	47.421	5.2	99	0.00
105	P	1,4-Dclbenz	50.000	47.775	4.5	99	0.00
106		2,4-Dichlorobenzotrifluorid	50.000	50.075	-0.2	107	0.00
107		2,5-Dichlorobenzotrifluorid	50.000	50.009	-0.0	107	0.00
108		n-Butylbenzene	50.000	44.871	10.3	91	0.00
109	P	1,2-Dclbenz	50.000	48.493	3.0	100	0.00
110	P	1,2-Dibromo-3-chloropropane	50.000	44.956	10.1	82	0.00
111		Trielution Dichlorotoluene	150.000	140.676	6.2	97	0.00
112		1,3,5-Trichlorobenzene	50.000	47.687	4.6	100	0.00
113		Coelution Dichlorotoluene	100.000	92.949	7.1	96	0.00
114	P	1,2,4-Tcbenzene	50.000	47.429	5.1	95	0.00
115		Hexachlorobt	50.000	45.685	8.6	95	0.00
116		Naphthalen	50.000	43.426	13.1	83	0.00
117		1,2,3-Tclbenzene	50.000	46.354	7.3	94	0.00
118		2,4,5-Trichlorotoluene	50.000	43.978	12.0	90	0.00
119		2,3,6-Trichlorotoluene	50.000	0.000	100.0#	0	-14.30#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\090124\
Data File : K5452.D
Acq On : 01 Sep 2024 12:31 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 12:47:17 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.989	168	383227	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.171	114	630882	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.573	117	567148	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	269183	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.830	113	199251	50.63	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 101.26%			
47) surr1,1,2-dichloroetha...	5.415	65	260385	48.41	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 96.82%			
64) SURR3,Toluene-d8	8.049	98	732706	50.74	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.48%			
69) SURR2,BFB	10.658	95	284243	50.06	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.12%			
Target Compounds						Qvalue
2) Chlorodifluoromethane	1.081	51	231579	44.405	ug/L	98
3) Dichlorodifluoromethane	1.075	85	199401	40.442	ug/L	99
4) Chloromethane	1.191	50	238650	45.130	ug/L	98
5) Vinyl Chloride	1.264	62	224817	42.125	ug/L	100
6) Bromomethane	1.465	94	91347	44.859	ug/L	98
7) Chloroethane	1.538	64	138947	41.251	ug/L	98
8) Freon 21	1.678	67	326633	46.695	ug/L	98
9) Trichlorofluoromethane	1.721	101	291917	50.601	ug/L	97
10) Diethyl Ether	1.934	59	203586	49.029	ug/L	98
11) Freon 123a	1.940	67	181537	46.642	ug/L	97
12) Freon 123	1.989	83	236094	49.717	ug/L	99
13) Acrolein	2.026	56	357633	584.386	ug/L	98
14) 1,1-Diclethene	2.105	96	159799	49.194	ug/L	97
15) Freon 113	2.111	101	161643	47.711	ug/L	94
16) Acetone	2.154	43	95270	31.059	ug/L	98
17) 2-Propanol	2.282	45	411823	680.777	ug/L	97
18) Iodomethane	2.227	142	259285	51.188	ug/L	96
19) Carbon Disulfide	2.282	76	446173	55.789	ug/L	100
20) Acetonitrile/Allyl Chl...	2.410	41	464604	287.852	ug/L	96
21) Methyl Acetate	2.434	43	210163	39.264	ug/L	98
22) Methylene Chloride	2.520	84	181663	50.760	ug/L	99
23) TBA	2.648	59	773081	689.489	ug/L	99
24) Acrylonitrile	2.757	53	600815	214.577	ug/L	99
25) Methyl-t-Butyl Ether	2.800	73	606266	48.651	ug/L	97
26) trans-1,2-Dichloroethene	2.788	96	174701	49.028	ug/L	97
27) 1,1-Diclethane	3.245	63	360003	48.992	ug/L	98
28) Vinyl Acetate	3.330	86	50310	69.513	ug/L #	96
29) DIPE	3.361	45	585459	44.772	ug/L	95
30) 2-Chloro-1,3-Butadiene	3.355	53	382515	51.317	ug/L	96
31) ETBE	3.843	59	618764	44.837	ug/L	99
32) 2,2-Dichloropropane	4.013	77	272933	56.496	ug/L	100
33) cis-1,2-Dichloroethene	4.019	96	198835	47.965	ug/L	100
34) 2-Butanone	4.074	43	146635	40.062	ug/L	98
35) Propionitrile	4.153	54	253544	202.764	ug/L	98
36) Bromochloromethane	4.379	130	137062	50.180	ug/L	97
37) Methacrylonitrile	4.397	67	105321	44.969	ug/L	98
38) Tetrahydrofuran	4.477	42	90606	38.811	ug/L	95
39) Chloroform	4.550	83	327934	48.009	ug/L	97
40) 1,1,1-Trichloroethane	4.830	97	291343	48.606	ug/L	97

Data Path : I:\ACQUDATA\MSVOA17\Data\090124\
Data File : K5452.D
Acq On : 01 Sep 2024 12:31 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 12:47:17 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.763	73	475717	44.675	ug/L	95
43) Cyclohexane	4.909	41	174841	47.071	ug/L	97
45) Carbontetrachloride	5.129	117	246931	46.996	ug/L	97
46) 1,1-Dichloropropene	5.147	75	224096	48.371	ug/L	98
48) Benzene	5.495	78	680180	50.409	ug/L	99
49) 1,2-Dichloroethane	5.550	62	329293	48.949	ug/L	99
50) Iso-Butyl Alcohol	5.556	43	267184	814.119	ug/L	99
51) n-Heptane	6.025	43	232244	45.953	ug/L	98
52) 1-Butanol	6.580	56	420900	1830.084	ug/L	97
53) Trichloroethene	6.507	130	193261	48.304	ug/L	99
54) Methylcyclohexane	6.744	55	293258	51.519	ug/L	99
55) 1,2-Diclpropane	6.805	63	204327	50.022	ug/L	100
56) Dibromomethane	6.952	93	128085	50.003	ug/L	94
57) 1,4-Dioxane	7.031	88	69899	798.917	ug/L	94
58) Methyl Methacrylate	7.055	69	163770	47.983	ug/L	96
59) Bromodichloromethane	7.189	83	246183	51.158	ug/L	98
60) 2-Nitropropane	7.494	41	157451	91.548	ug/L	95
61) 2-Chloroethylvinyl Ether	7.622	63	28815	21.841	ug/L	97
62) cis-1,3-Dichloropropene	7.750	75	292746	53.414	ug/L	99
63) 4-Methyl-2-pentanone	7.976	43	281484	43.990	ug/L	97
65) Toluene	8.122	91	735245	47.998	ug/L	99
66) trans-1,3-Dichloropropene	8.409	75	281883	53.552	ug/L	99
67) Ethyl Methacrylate	8.561	69	294192	50.470	ug/L	95
68) 1,1,2-Trichloroethane	8.598	97	182135	49.341	ug/L	100
71) Tetrachloroethene	8.726	164	136388	48.768	ug/L	98
72) 2-Hexanone	8.909	43	205726	41.155	ug/L	97
73) 1,3-Dichloropropane	8.768	76	302048	49.364	ug/L	98
74) Dibromochloromethane	9.000	129	212150	54.869	ug/L	98
75) N-Butyl Acetate	9.067	43	400493	41.782	ug/L	99
76) 1,2-Dibromoethane	9.092	107	204656	50.544	ug/L	99
77) 3-Chlorobenzotrifluoride	9.628	180	234075	50.794	ug/L	97
78) Chlorobenzene	9.598	112	499682	47.018	ug/L	98
79) 4-Chlorobenzotrifluoride	9.683	180	211004	49.947	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.689	131	199332	52.056	ug/L	99
81) Ethylbenzene	9.726	106	256404	47.985	ug/L	98
82) (m+p)Xylene	9.841	106	636209	96.720	ug/L	99
83) o-Xylene	10.201	106	318782	48.659	ug/L	98
84) Styrene	10.213	104	553799	50.253	ug/L	98
85) Bromoform	10.366	173	126631	54.490	ug/L	100
86) 2-Chlorobenzotrifluoride	10.451	180	223891	47.949	ug/L	99
87) Isopropylbenzene	10.536	105	746185	44.426	ug/L	99
88) Cyclohexanone	10.603	55	911095	734.252	ug/L	99
89) trans-1,4-Dichloro-2-B...	10.860	53	99681	42.056	ug/L	93
91) 1,1,2,2-Tetrachloroethane	10.811	83	273406	48.530	ug/L	97
92) Bromobenzene	10.780	156	208442	48.542	ug/L	94
93) 1,2,3-Trichloropropane	10.835	110	92359	45.209	ug/L	96
94) n-Propylbenzene	10.896	91	923834	47.361	ug/L	98
95) 2-Chlorotoluene	10.957	91	567182	46.236	ug/L	99
96) 3-Chlorotoluene	11.012	91	571193	46.022	ug/L	98
97) 4-Chlorotoluene	11.055	91	669781	47.468	ug/L	98
98) 1,3,5-Trimethylbenzene	11.055	105	691886	46.834	ug/L	100
99) tert-Butylbenzene	11.323	119	571090	45.294	ug/L	99
100) 1,2,4-Trimethylbenzene	11.366	105	698437	46.634	ug/L	98
101) 3,4-Dichlorobenzotrifl...	11.433	214	157626	48.467	ug/L	95
102) sec-Butylbenzene	11.506	105	807545	45.742	ug/L	99
103) p-Isopropyltoluene	11.634	119	710828	45.784	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\090124\
Data File : K5452.D
Acq On : 01 Sep 2024 12:31 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 12:47:17 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

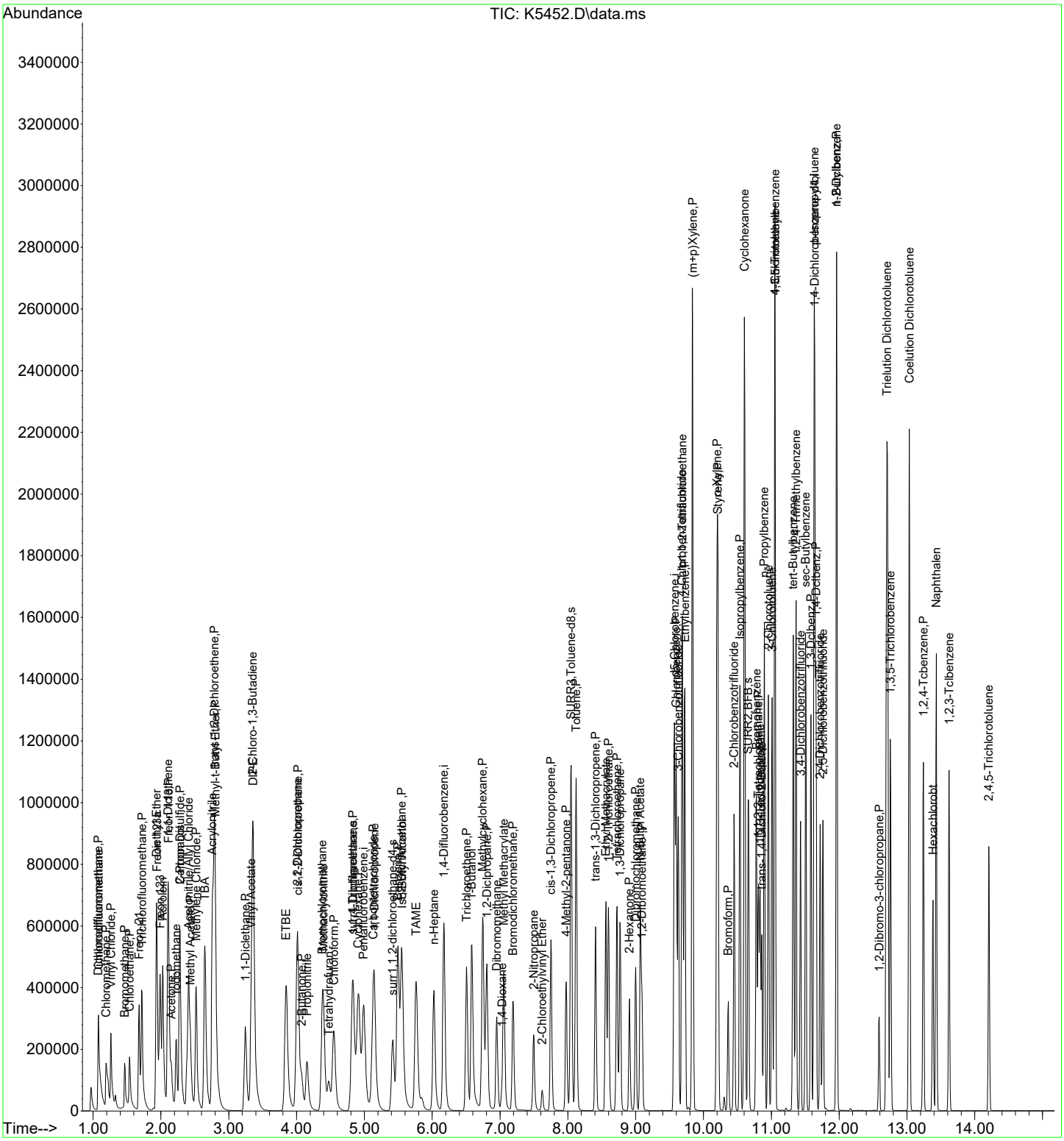
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.585	146	389995	47.421	ug/L	99
105) 1,4-Dclbenz	11.658	146	396711	47.775	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.719	214	143408	50.075	ug/L	98
107) 2,5-Dichlorobenzotrifl...	11.762	214	159646	50.009	ug/L	98
108) n-Butylbenzene	11.963	91	606685	44.871	ug/L	99
109) 1,2-Dclbenz	11.963	146	393749	48.493	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.591	157	63612	44.956	ug/L	94
111) Trielution Dichlorotol...	12.707	125	1076646	140.676	ug/L	97
112) 1,3,5-Trichlorobenzene	12.756	180	253005	47.687	ug/L	98
113) Coelution Dichlorotoluene	13.036	125	765182	92.949	ug/L	95
114) 1,2,4-Tcbenzene	13.243	180	243994	47.429	ug/L	98
115) Hexachlorobt	13.383	225	86514	45.685	ug/L	99
116) Naphthalen	13.432	128	844822	43.426	ug/L	99
117) 1,2,3-Tclbenzene	13.621	180	235002	46.354	ug/L	96
118) 2,4,5-Trichlorotoluene	14.207	159	177602	43.978	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\090124\
Data File : K5452.D
Acq On : 01 Sep 2024 12:31 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 12:47:17 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration



1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4593.D
Acq On : 31 Jul 2024 08:29 pm
Operator : K.Ruest
Sample : ICV-50
Misc : 8260/624 ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 01 10:44:11 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.995	168	362354	50.00	ug/L		0.00
42) 1,4-Difluorobenzene	6.171	114	618390	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.573	117	555839	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	266115	50.00	ug/L		0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.830	113	199461	51.71	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 103.42%				
47) surr1,1,2-dichloroetha...	5.422	65	269682	51.15	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.30%				
64) SURR3,Toluene-d8	8.049	98	723878	51.14	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.28%				
69) SURR2,BFB	10.665	95	281328	50.55	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.10%				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.081	51	254361	51.583	ug/L		98
3) Dichlorodifluoromethane	1.075	85	285838	61.312	ug/L		98
4) Chloromethane	1.209	50	262945	52.589	ug/L		97
5) Vinyl Chloride	1.264	62	247743	49.094	ug/L		99
6) Bromomethane	1.465	94	104673	55.772	ug/L		96
7) Chloroethane	1.532	64	129098	40.535	ug/L		99
8) Freon 21	1.672	67	295095	44.616	ug/L		100
9) Trichlorofluoromethane	1.715	101	283974	52.060	ug/L		99
10) Diethyl Ether	1.934	59	194171	49.455	ug/L		98
11) Freon 123a	1.934	67	187325	50.901	ug/L		100
12) Freon 123	1.989	83	268412	59.779	ug/L		99
13) Acrolein	2.032	56	53464	92.395	ug/L		97
14) 1,1-Diclethene	2.105	96	162977	53.062	ug/L		99
15) Freon 113	2.111	101	157153	49.057	ug/L		95
16) Acetone	2.154	43	133005	45.859	ug/L		98
17) 2-Propanol	2.282	45	586680	1025.696	ug/L		97
18) Iodomethane	2.221	142	238437	49.783	ug/L		97
19) Carbon Disulfide	2.276	76	419099	55.423	ug/L		100
20) Acetonitrile/Allyl Chl...	2.404	41	497661	326.094	ug/L		99
21) Methyl Acetate	2.434	43	253668	50.122	ug/L		99
22) Methylene Chloride	2.520	84	181666	53.717	ug/L		99
23) TBA	2.654	59	1123403	1059.646	ug/L		98
24) Acrylonitrile	2.757	53	652380	246.414	ug/L		100
25) Methyl-t-Butyl Ether	2.800	73	600094	50.930	ug/L		97
26) trans-1,2-Dichloroethene	2.782	96	170955	50.740	ug/L		97
27) 1,1-Diclethane	3.245	63	362881	52.228	ug/L		97
28) Vinyl Acetate	3.337	86	30619	47.230	ug/L	#	60
29) DIPE	3.361	45	634841	51.345	ug/L		96
30) 2-Chloro-1,3-Butadiene	3.355	53	335772	47.641	ug/L		94
31) ETBE	3.849	59	698640	53.541	ug/L		100
32) 2,2-Dichloropropane	4.007	77	264057	57.808	ug/L		99
33) cis-1,2-Dichloroethene	4.019	96	198707	50.695	ug/L		98
34) 2-Butanone	4.074	43	175855	50.813	ug/L		99
35) Propionitrile	4.160	54	294216	248.843	ug/L		99
36) Bromochloromethane	4.385	130	133617	51.737	ug/L		99
37) Methacrylonitrile	4.397	67	112229	50.679	ug/L		97
38) Tetrahydrofuran	4.477	42	105841	47.949	ug/L		93
39) Chloroform	4.550	83	319609	49.485	ug/L		98
40) 1,1,1-Trichloroethane	4.830	97	300338	52.993	ug/L		98

1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4593.D
Acq On : 31 Jul 2024 08:29 pm
Operator : K.Ruest
Sample : ICV-50
Misc : 8260/624 ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 01 10:44:11 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.763	73	546637	54.292	ug/L	98
43) Cyclohexane	4.916	41	172497	47.378	ug/L	97
45) Carbontetrachloride	5.129	117	260262	50.534	ug/L	96
46) 1,1-Dichloropropene	5.147	75	217246	47.839	ug/L	99
48) Benzene	5.495	78	669832	50.645	ug/L	99
49) 1,2-Dichloroethane	5.550	62	319840	48.504	ug/L	98
50) Iso-Butyl Alcohol	5.562	43	348955	1084.758	ug/L	98
51) n-Heptane	6.025	43	242570	48.966	ug/L	98
52) 1-Butanol	6.586	56	629944	2704.955	ug/L	99
53) Trichloroethene	6.513	130	199092	50.767	ug/L	97
54) Methylcyclohexane	6.751	55	273967	49.102	ug/L	97
55) 1,2-Diclpropane	6.805	63	184272	46.024	ug/L	99
56) Dibromomethane	6.952	93	128089	51.014	ug/L	98
57) 1,4-Dioxane	7.031	88	86322	1006.556	ug/L	97
58) Methyl Methacrylate	7.062	69	174921	52.286	ug/L	100
59) Bromodichloromethane	7.196	83	247455	52.461	ug/L	100
60) 2-Nitropropane	7.500	41	181763	107.818	ug/L	98
61) 2-Chloroethylvinyl Ether	7.628	63	3107	2.403	ug/L	97
62) cis-1,3-Dichloropropene	7.757	75	297301	55.341	ug/L	99
63) 4-Methyl-2-pentanone	7.976	43	332271	52.976	ug/L	100
65) Toluene	8.122	91	744408	49.578	ug/L	99
66) trans-1,3-Dichloropropene	8.409	75	290050	56.217	ug/L	99
67) Ethyl Methacrylate	8.561	69	297155	52.009	ug/L	99
68) 1,1,2-Trichloroethane	8.604	97	184216	50.913	ug/L	99
71) Tetrachloroethene	8.726	164	139114	50.755	ug/L	98
72) 2-Hexanone	8.909	43	255071	52.064	ug/L	100
73) 1,3-Dichloropropane	8.775	76	295018	49.196	ug/L	97
74) Dibromochloromethane	9.000	129	209157	55.196	ug/L	98
75) N-Butyl Acetate	9.073	43	469831	50.013	ug/L	99
76) 1,2-Dibromoethane	9.098	107	204165	51.448	ug/L	99
77) 3-Chlorobenzotrifluoride	9.634	180	230024	50.931	ug/L	98
78) Chlorobenzene	9.598	112	495589	47.582	ug/L	97
79) 4-Chlorobenzotrifluoride	9.689	180	209501	50.600	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.695	131	200970	53.552	ug/L	99
81) Ethylbenzene	9.726	106	265026	50.607	ug/L	99
82) (m+p)Xylene	9.842	106	660474	102.452	ug/L	98
83) o-Xylene	10.201	106	328069	51.096	ug/L	96
84) Styrene	10.213	104	565193	52.330	ug/L	97
85) Bromoform	10.366	173	136588	59.449	ug/L	98
86) 2-Chlorobenzotrifluoride	10.457	180	226120	49.412	ug/L	99
87) Isopropylbenzene	10.543	105	831180	50.493	ug/L	99
88) Cyclohexanone	10.610	55	1329518	1093.259	ug/L	99
89) trans-1,4-Dichloro-2-B...	10.860	53	107448	46.256	ug/L	99
91) 1,1,2,2-Tetrachloroethane	10.811	83	278726	50.044	ug/L	99
92) Bromobenzene	10.780	156	208064	49.013	ug/L	100
93) 1,2,3-Trichloropropane	10.835	110	101294	50.155	ug/L	99
94) n-Propylbenzene	10.902	91	969181	50.259	ug/L	100
95) 2-Chlorotoluene	10.957	91	585360	48.268	ug/L	100
96) 3-Chlorotoluene	11.012	91	621740	50.673	ug/L	99
97) 4-Chlorotoluene	11.055	91	690622	49.510	ug/L	100
98) 1,3,5-Trimethylbenzene	11.055	105	736097	50.401	ug/L	99
99) tert-Butylbenzene	11.329	119	644729	51.724	ug/L	100
100) 1,2,4-Trimethylbenzene	11.366	105	742271	50.132	ug/L	100
101) 3,4-Dichlorobenzotrifl...	11.433	214	157590	49.014	ug/L	96
102) sec-Butylbenzene	11.512	105	897917	51.447	ug/L	100
103) p-Isopropyltoluene	11.634	119	806265	52.529	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4593.D
Acq On : 31 Jul 2024 08:29 pm
Operator : K.Ruest
Sample : ICV-50
Misc : 8260/624 ICAL
ALS Vial : 13 Sample Multiplier: 1

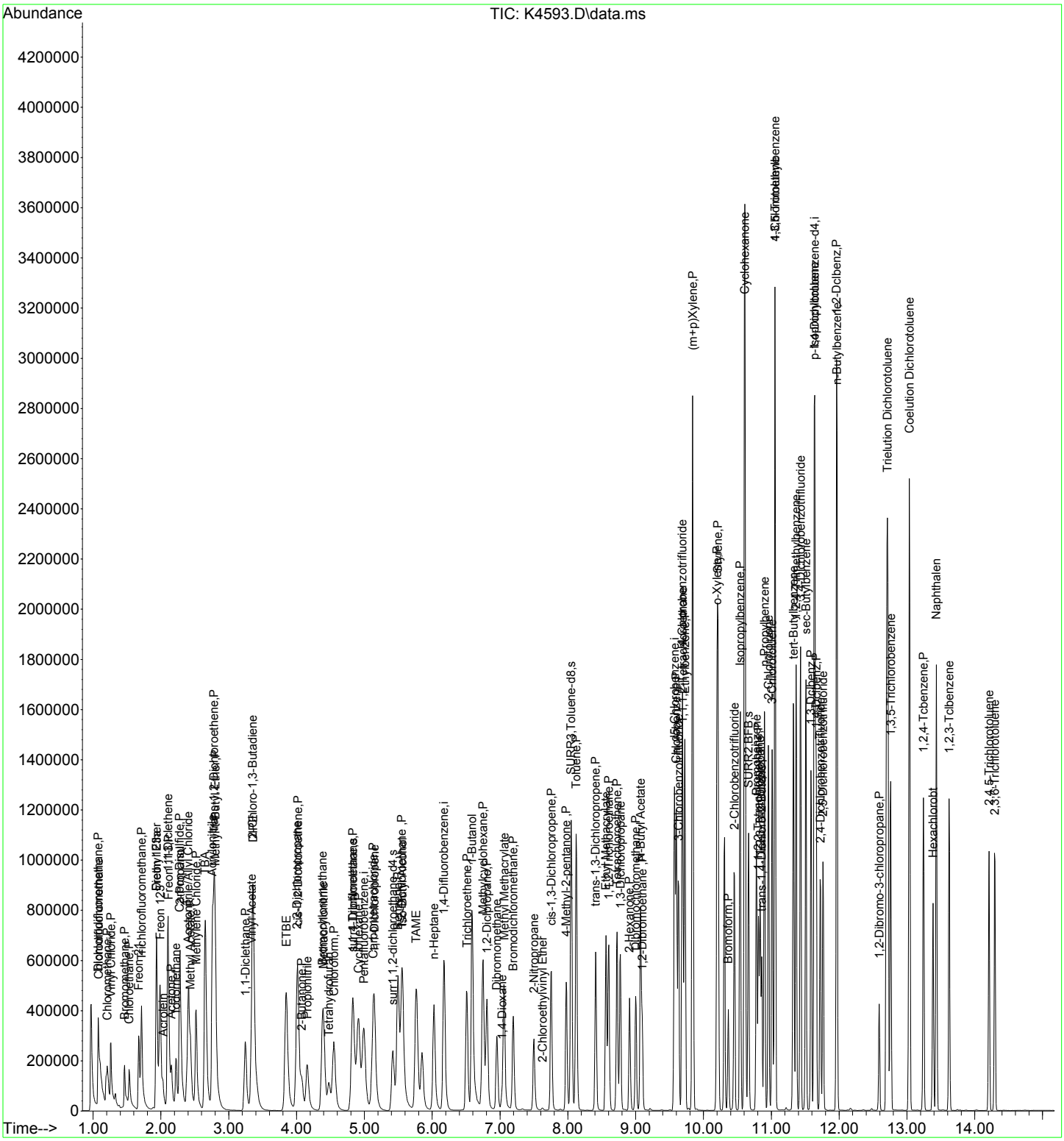
Quant Time: Aug 01 10:44:11 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.585	146	409521	50.370	ug/L	100
105) 1,4-Dclbenz	11.664	146	417703	50.883	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.725	214	144713	51.113	ug/L	95
107) 2,5-Dichlorobenzotrifl...	11.762	214	160965	51.004	ug/L	96
108) n-Butylbenzene	11.969	91	713353	53.368	ug/L	99
109) 1,2-Dclbenz	11.963	146	403148	50.223	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.591	157	78852	55.614	ug/L	98
111) Trielution Dichlorotol...	12.713	125	1159279	153.219	ug/L	99
112) 1,3,5-Trichlorobenzene	12.762	180	265440	50.607	ug/L	98
113) Coelution Dichlorotoluene	13.036	125	845684	103.912	ug/L	98
114) 1,2,4-Tcbenzene	13.243	180	265667	52.238	ug/L	96
115) Hexachlorobt	13.384	225	97692	52.182	ug/L	98
116) Naphthalen	13.432	128	1014112	52.729	ug/L	100
117) 1,2,3-Tclbenzene	13.621	180	259743	51.825	ug/L	97
118) 2,4,5-Trichlorotoluene	14.213	159	207742	52.034	ug/L	98
119) 2,3,6-Trichlorotoluene	14.298	159	196191	53.114	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4593.D
Acq On : 31 Jul 2024 08:29 pm
Operator : K.Ruest
Sample : ICV-50
Misc : 8260/624 ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 01 10:44:11 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

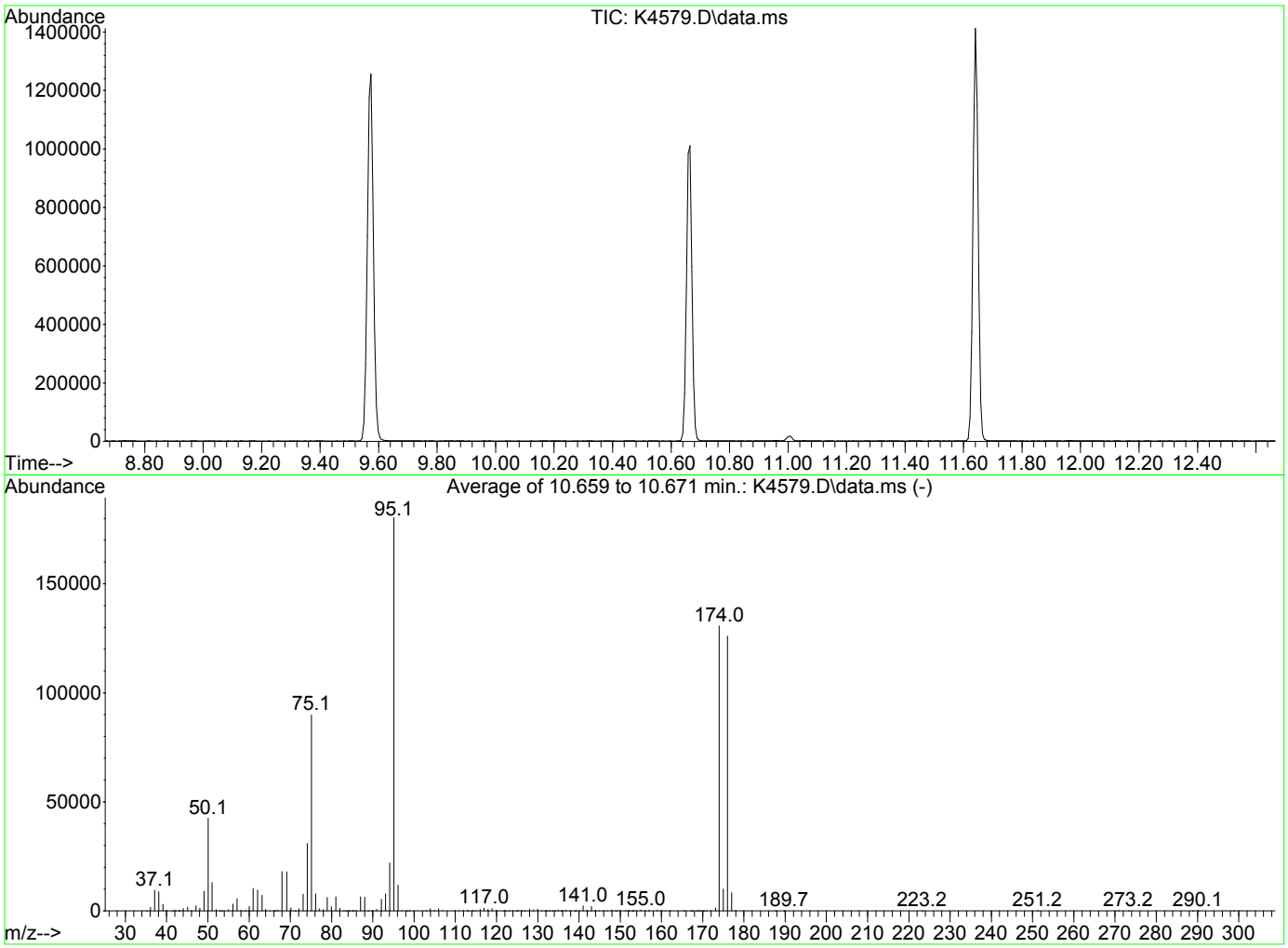


1st 07/31/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4579.D
Acq On : 31 Jul 2024 02:43 pm
Operator : K.Ruest
Sample : TUNE
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Title : MS#17 - 8260 WATERS 5mL Purge
Last Update : Wed Jul 03 10:03:49 2024



AutoFind: Scans 1611, 1612, 1613; Background Corrected with Scan 1604

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.5	42427	PASS
75	95	30	80	49.8	89888	PASS
95	95	100	100	100.0	180352	PASS
96	95	5	9	6.6	11833	PASS
173	174	0.00	2	1.0	1345	PASS
174	95	50	120	72.4	130624	PASS
175	174	5	9	7.6	9934	PASS
176	174	95	101	96.4	125981	PASS
177	176	5	9	6.6	8308	PASS

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4580.D
Acq On : 31 Jul 2024 03:07 pm
Operator : K.Ruest
Sample : IBLK
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 01 11:42:49 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

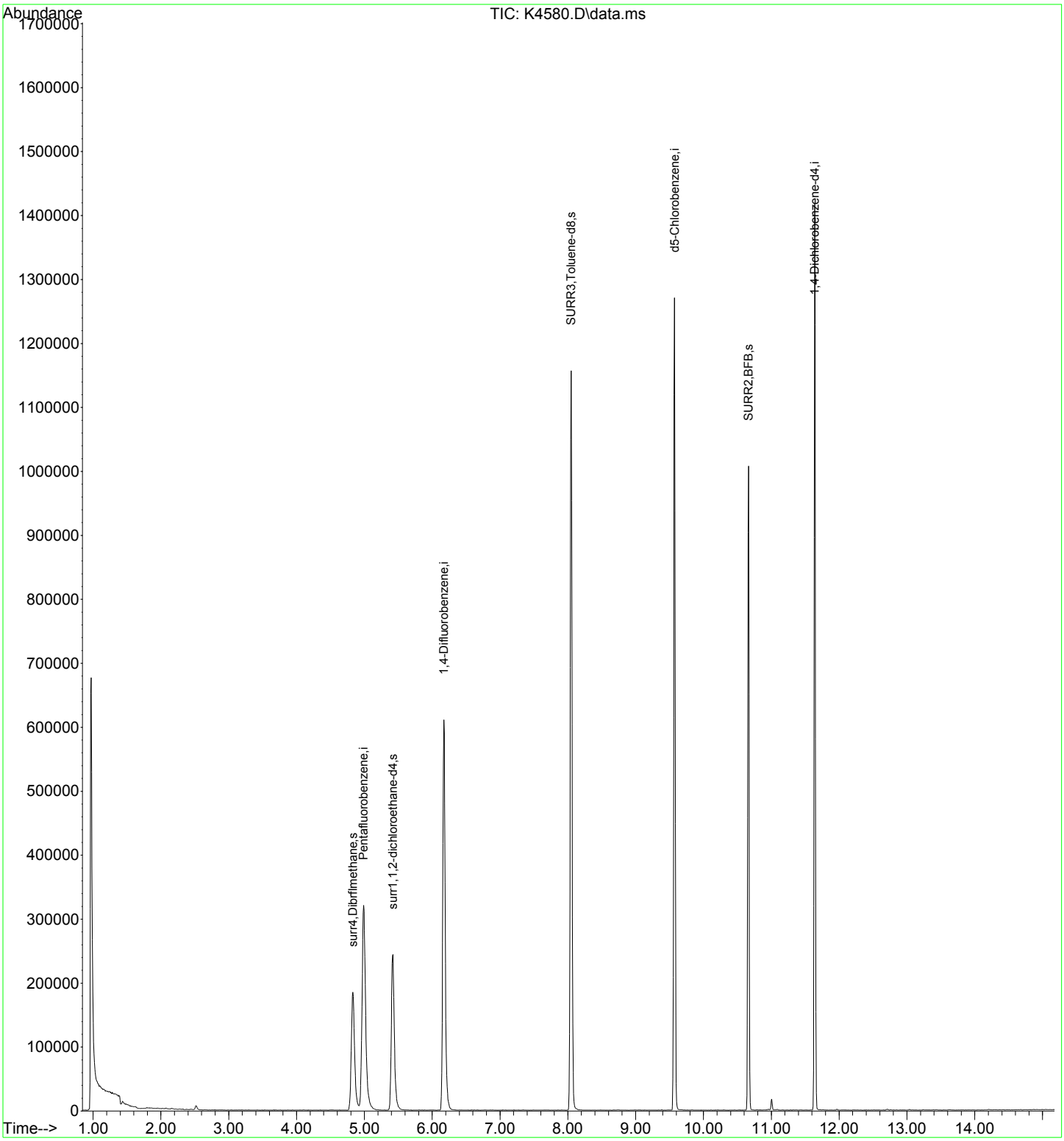
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.989	168	364983	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.171	114	621162	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.573	117	554612	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	251321	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.830	113	195407	50.43	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 100.86%			
47) surr1,1,2-dichloroetha...	5.422	65	277742	52.44	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 104.88%			
64) SURR3,Toluene-d8	8.049	98	721692	50.76	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.52%			
69) SURR2,BFB	10.665	95	268211	47.97	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 95.94%			
Target Compounds						Qvalue
22) Methylene Chloride	2.520	84	2872	Below Cal	#	90

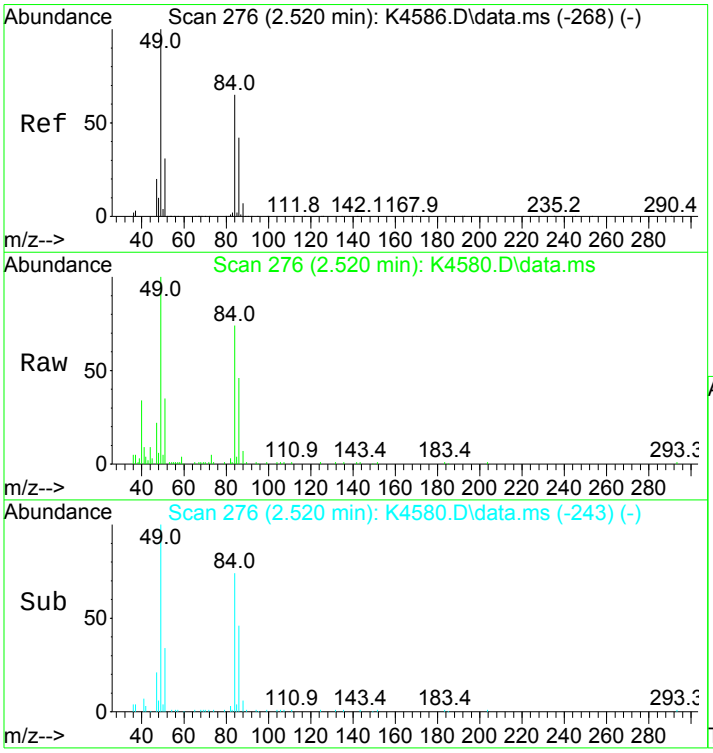
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4580.D
Acq On : 31 Jul 2024 03:07 pm
Operator : K.Ruest
Sample : IBLK
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 01 11:42:49 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

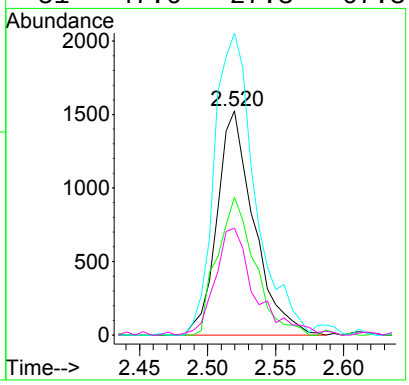




#22
Methylene Chloride
Concen: Below Cal
RT: 2.520 min Scan# 276
Delta R.T. 0.001 min
Lab File: K4580.D
Acq: 31 Jul 2024 03:07 pm

Tgt Ion: 84 Resp: 2872

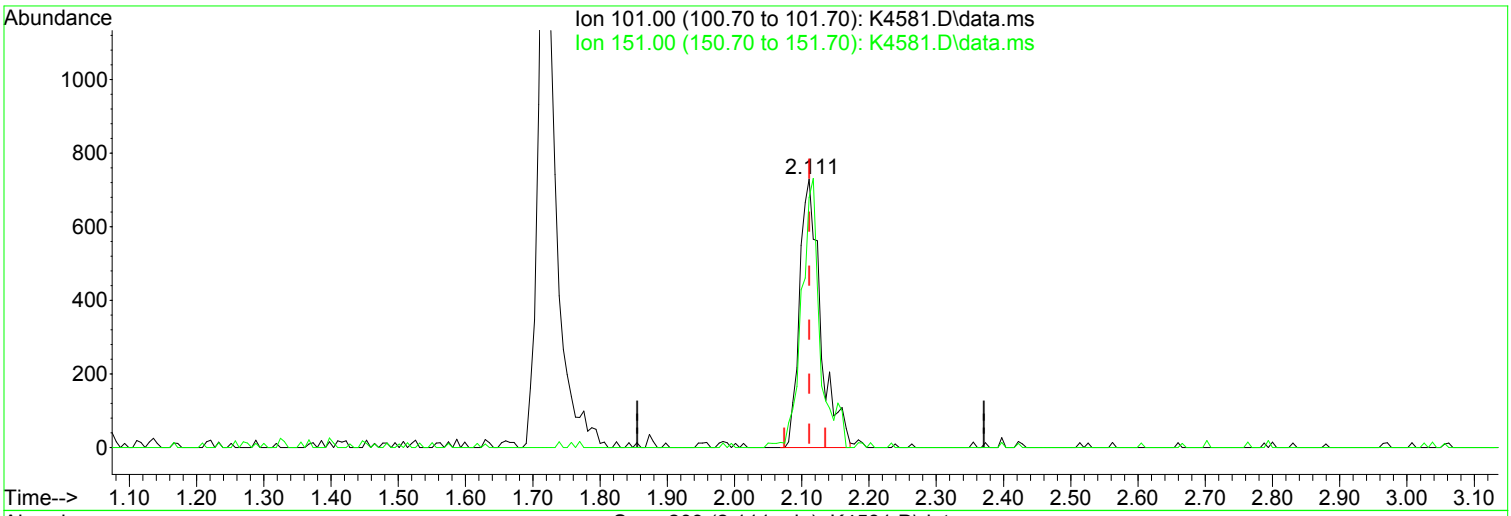
Ion	Ratio	Lower	Upper
84	100		
86	61.4	44.7	84.7
49	134.6	134.9	174.9#
51	47.6	27.3	67.3

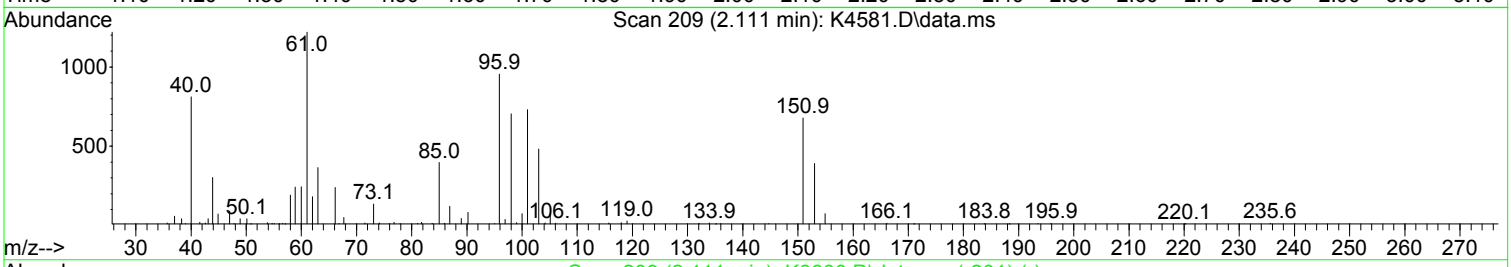


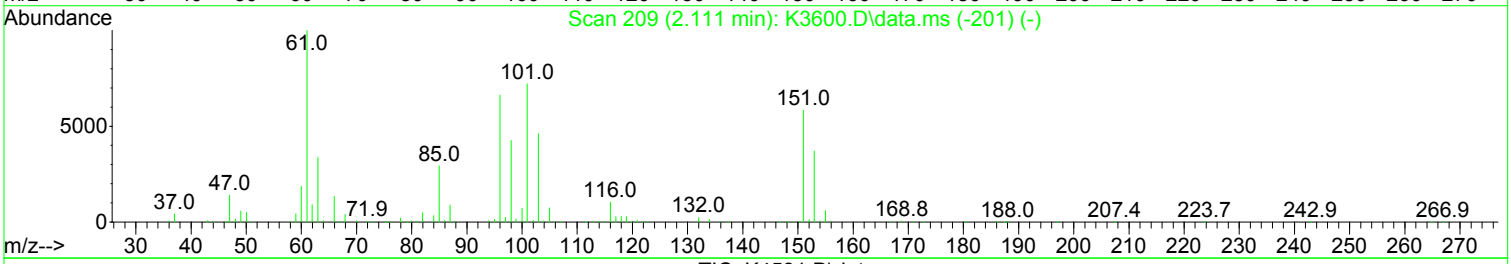
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(15) Freon 113 (P)

2.111min (-0.000) 0.50 ug/L m

response 1594

Ion	Exp%	Act%
101.00	100.00	100.00
151.00	80.80	93.01
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

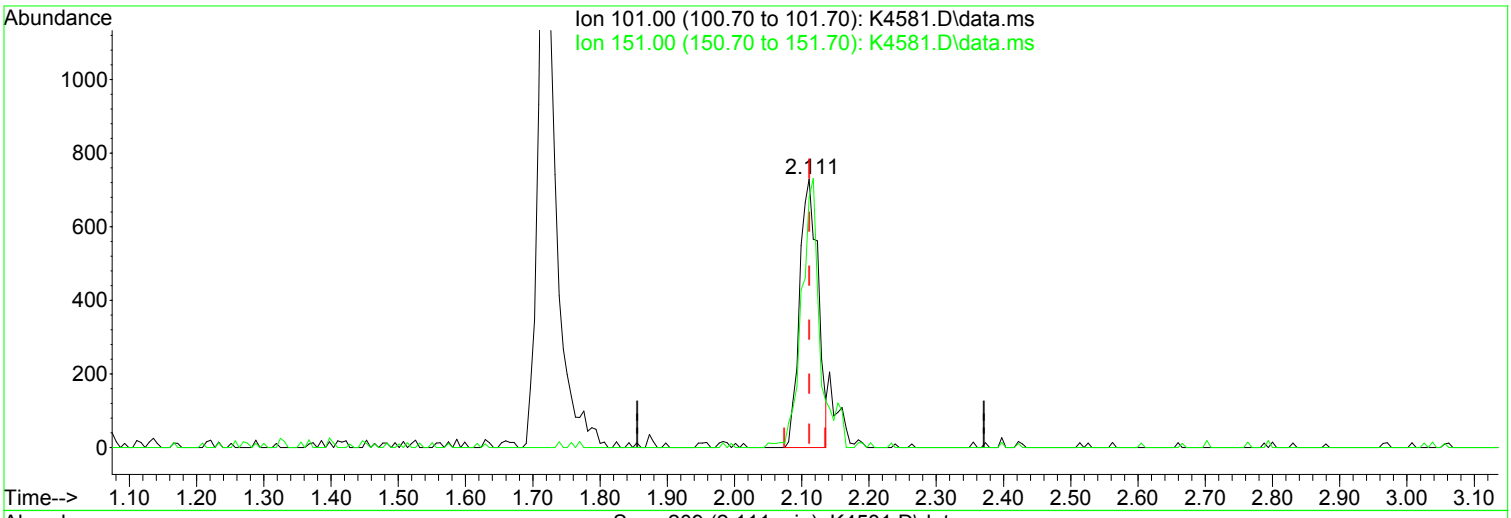
Split Peak.

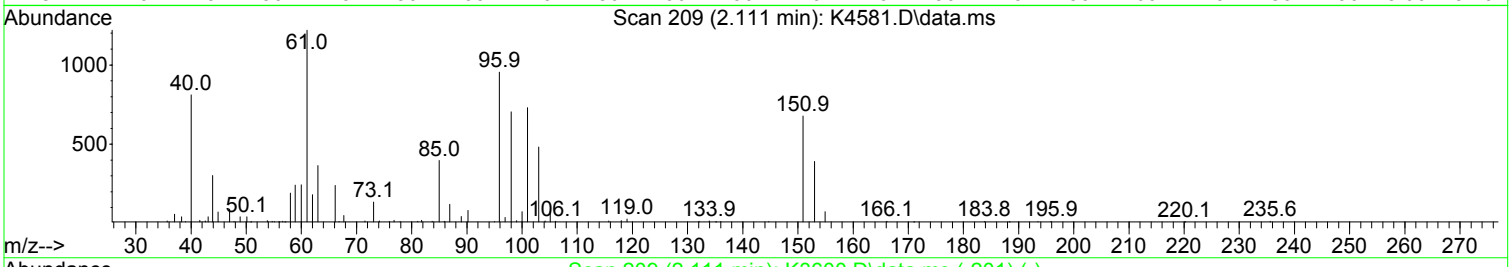
07/31/24

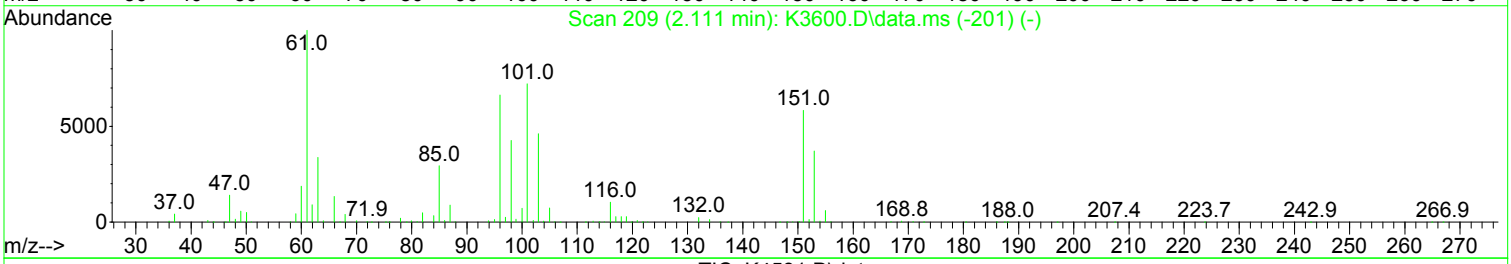
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(15) Freon 113 (P)

2.111min (-0.000) 0.44 ug/L

response 1390

Ion	Exp%	Act%
101.00	100.00	100.00
151.00	80.80	93.01
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

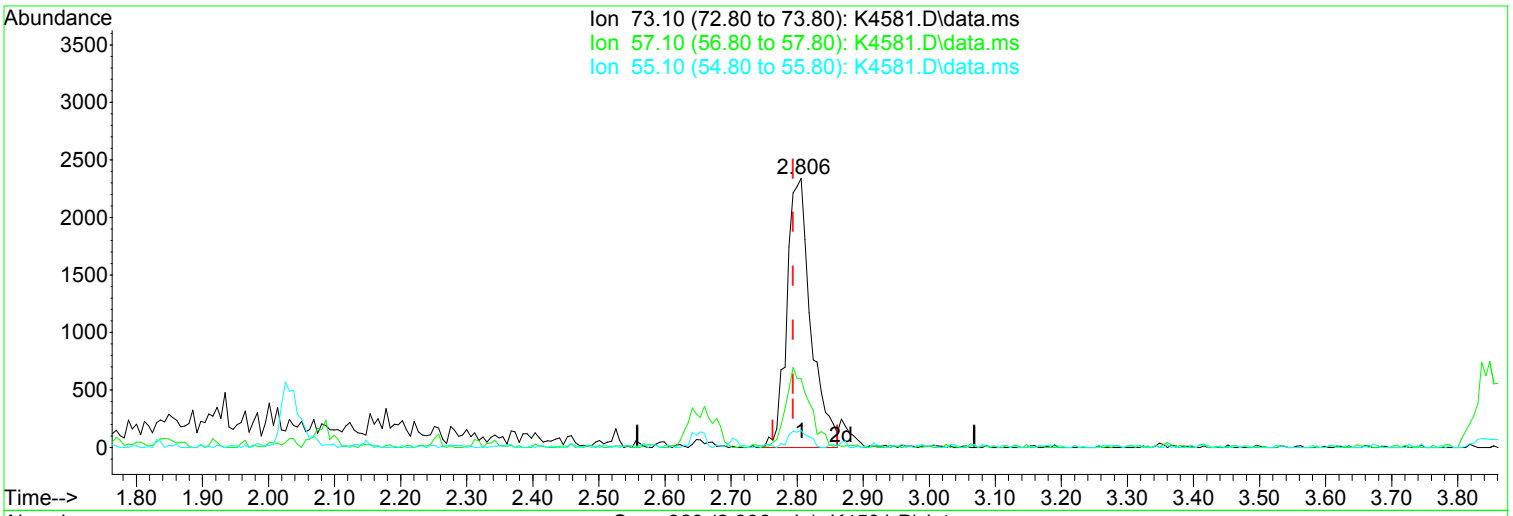
Before

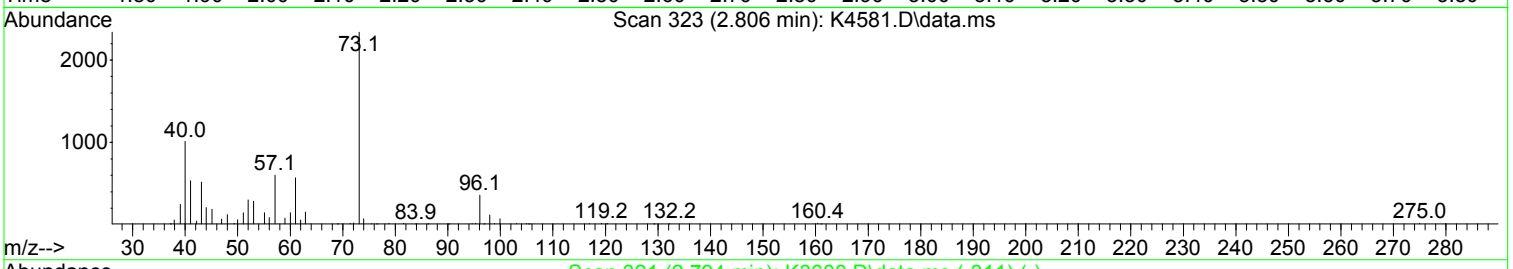
07/31/24

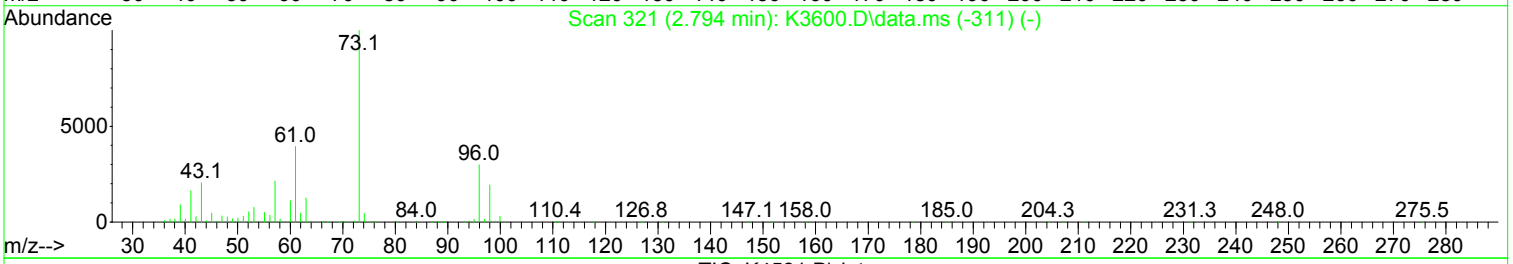
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(25) Methyl-t-Butyl Ether (P)

2.806min (+ 0.012) 0.51 ug/L m

response 5907

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	21.60	25.62
55.10	5.10	6.29
0.00	0.00	0.00

Manual Integration:

After

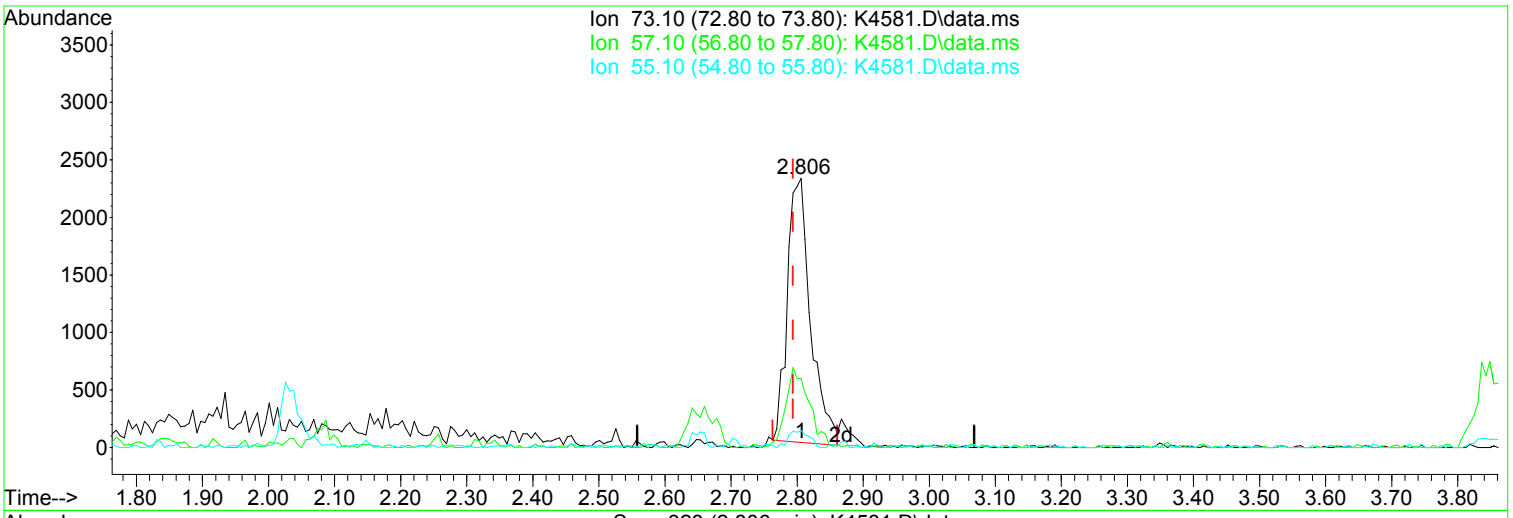
Poor integration.

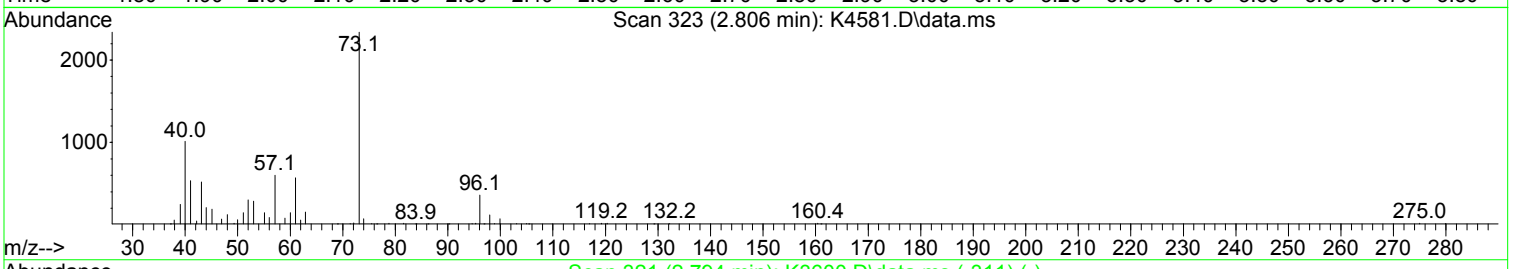
07/31/24

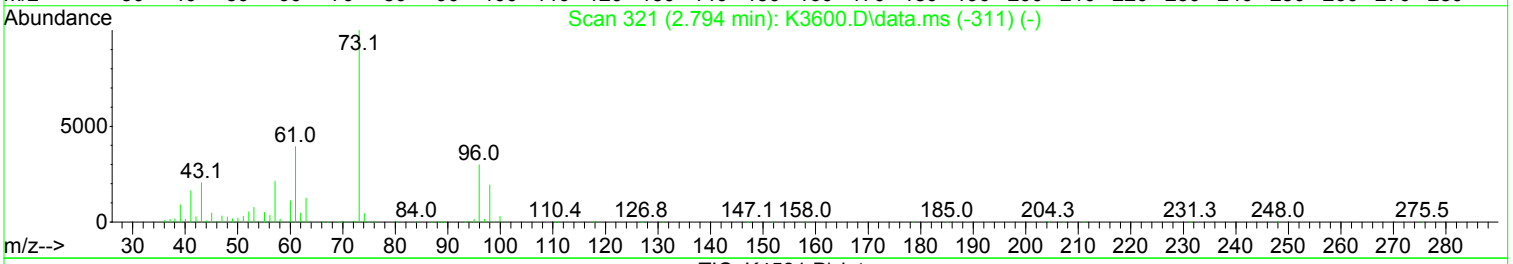
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(25) Methyl-t-Butyl Ether (P)

2.806min (+ 0.012) 0.48 ug/L

response 5595

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	21.60	25.62
55.10	5.10	6.29
0.00	0.00	0.00

Manual Integration:

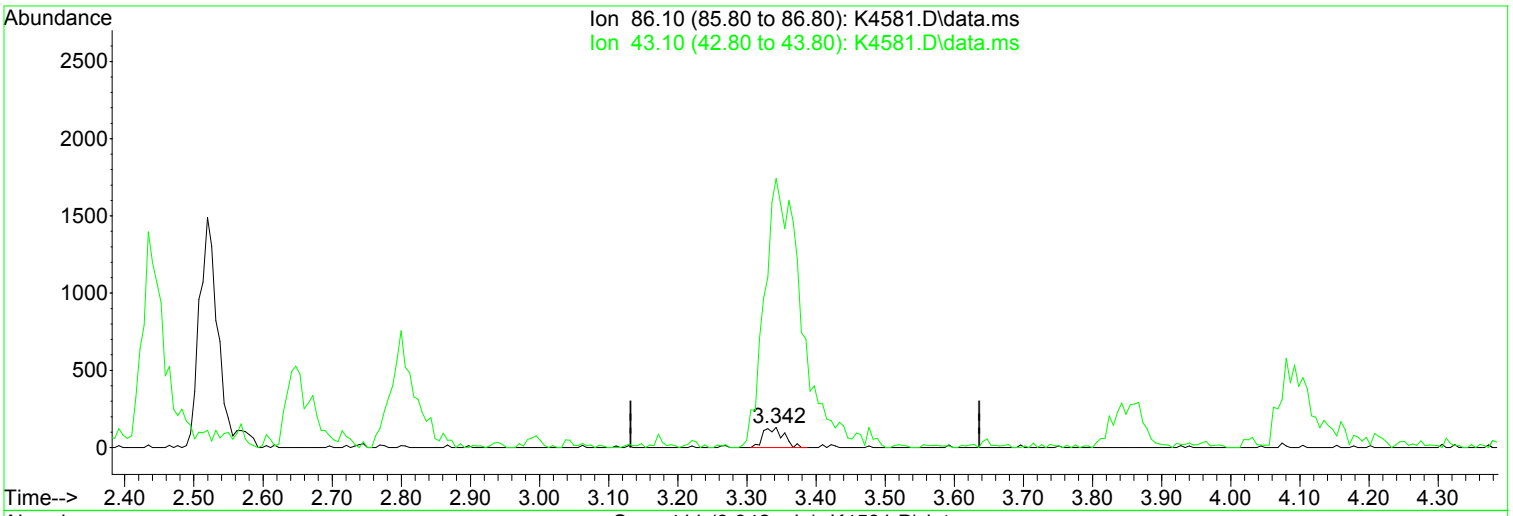
Before

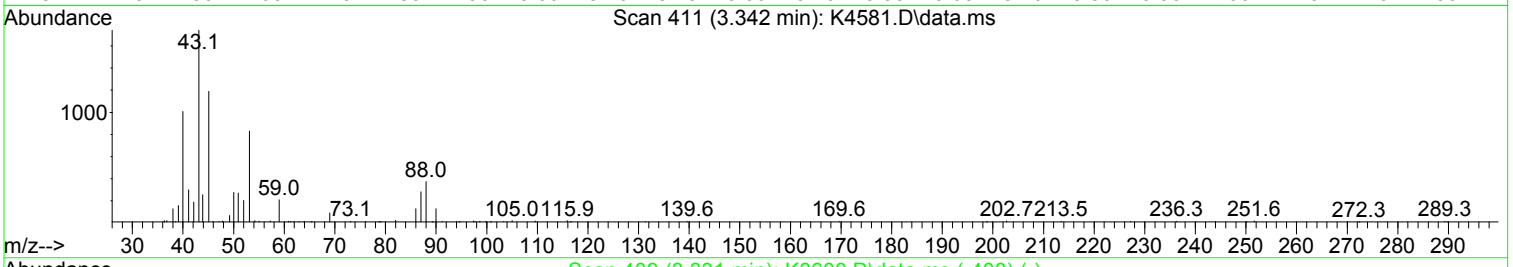
07/31/24

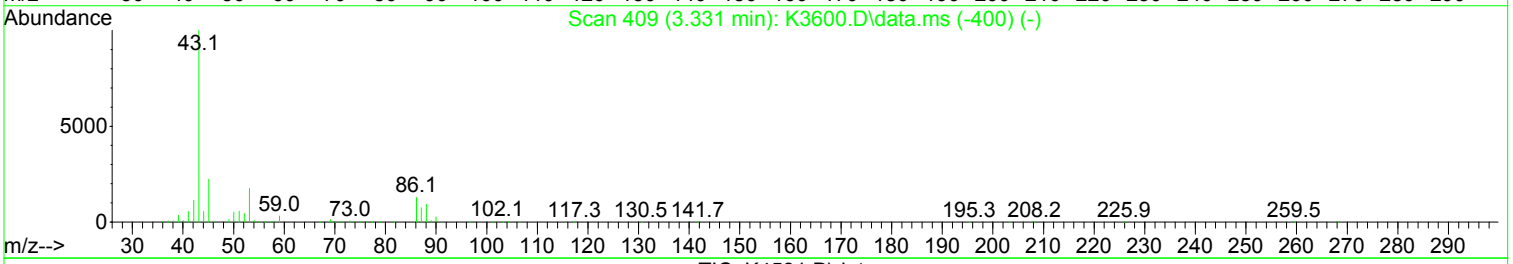
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(28) Vinyl Acetate

3.342min (+ 0.012) 0.39 ug/L m

response 266

Ion	Exp%	Act%
86.10	100.00	100.00
43.10	778.10	1340.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

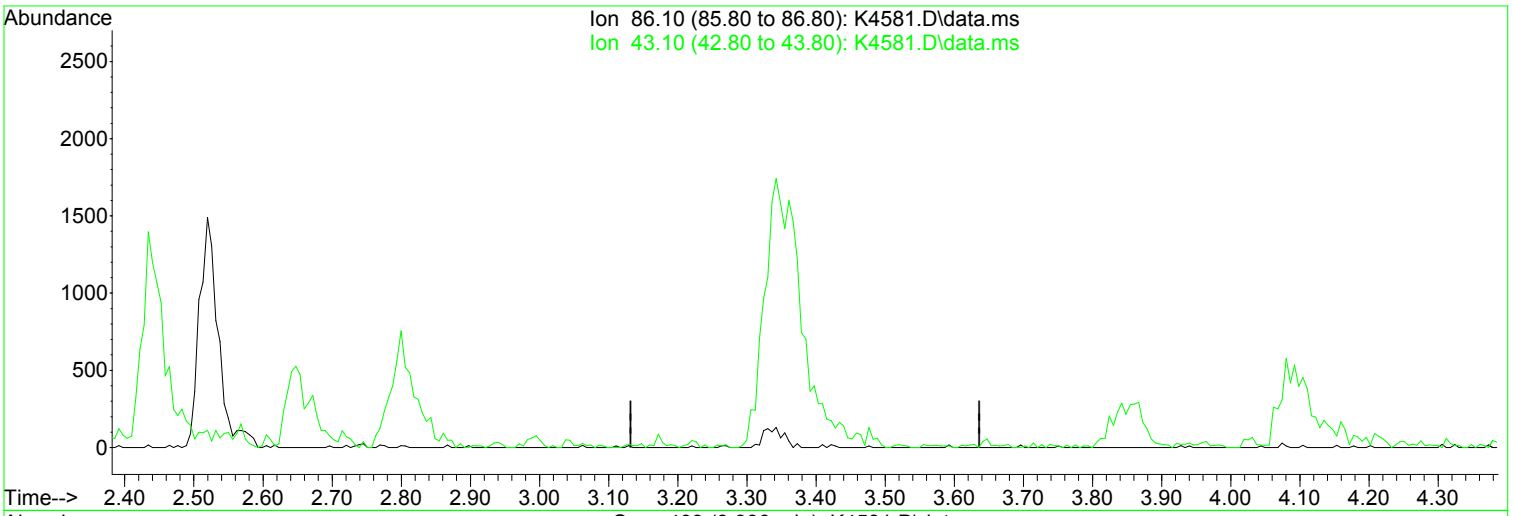
Peak not found.

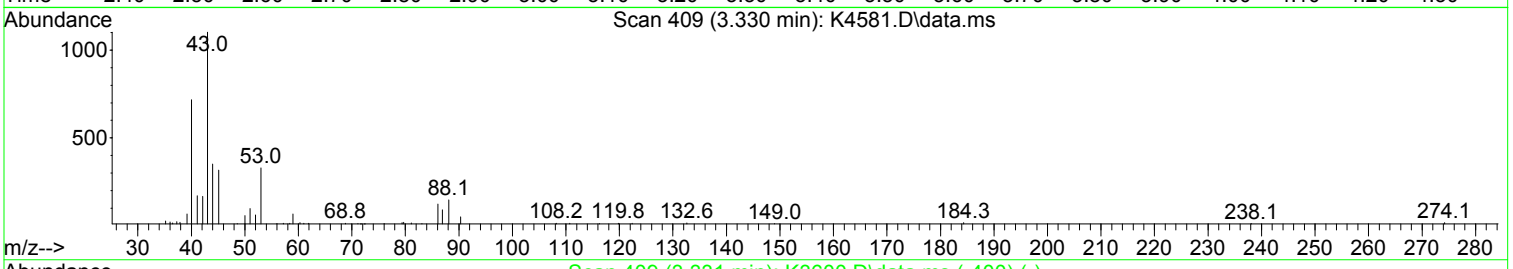
07/31/24

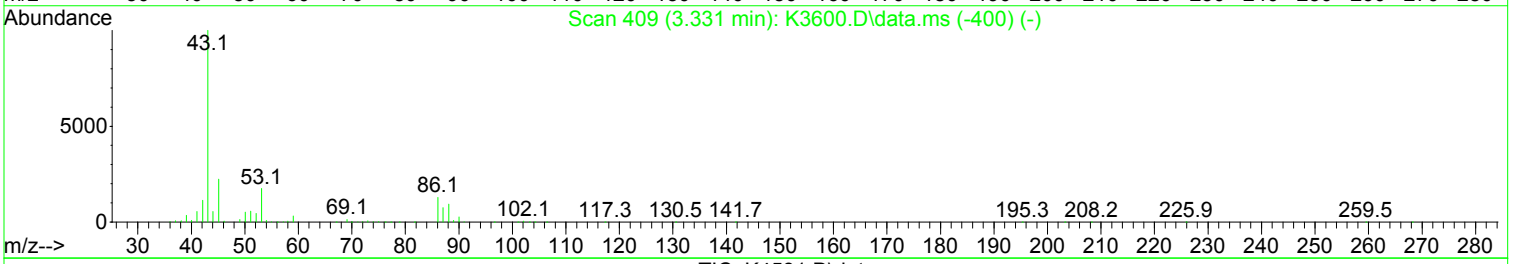
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(28) Vinyl Acetate

3.331min (-3.331) 0.00 ug/L

response 0

Ion	Exp%	Act%
86.10	100.00	0.00
43.10	778.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

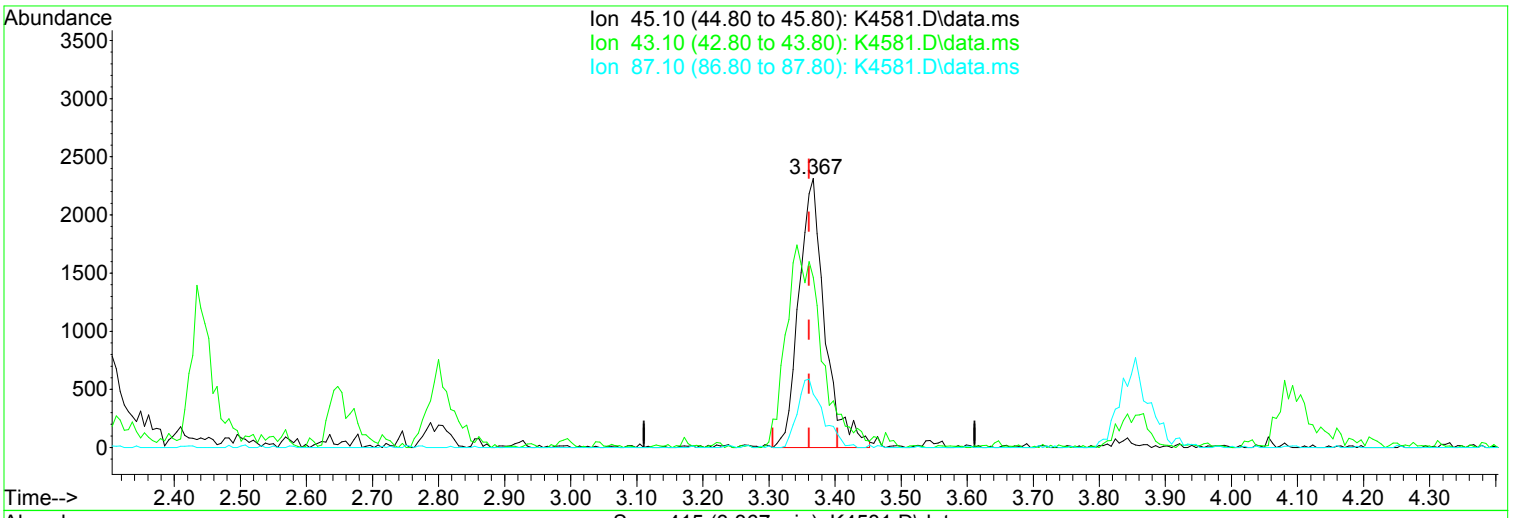
Before

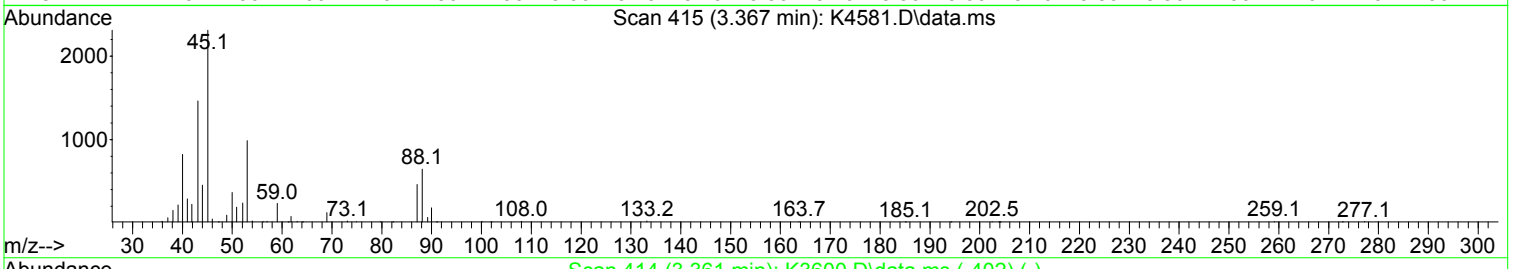
07/31/24

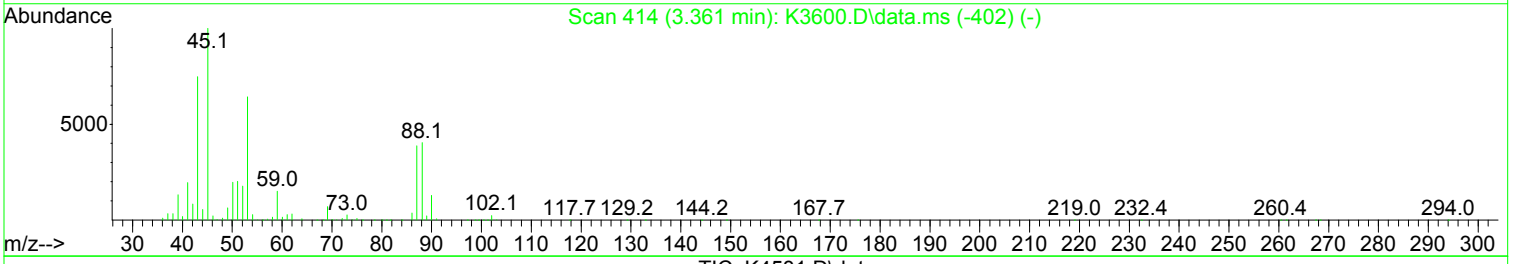
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(29) DIPE

3.367min (+ 0.006) 0.51 ug/L m

response 6297

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	75.00	63.34
87.10	39.10	19.89
0.00	0.00	0.00

Manual Integration:

After

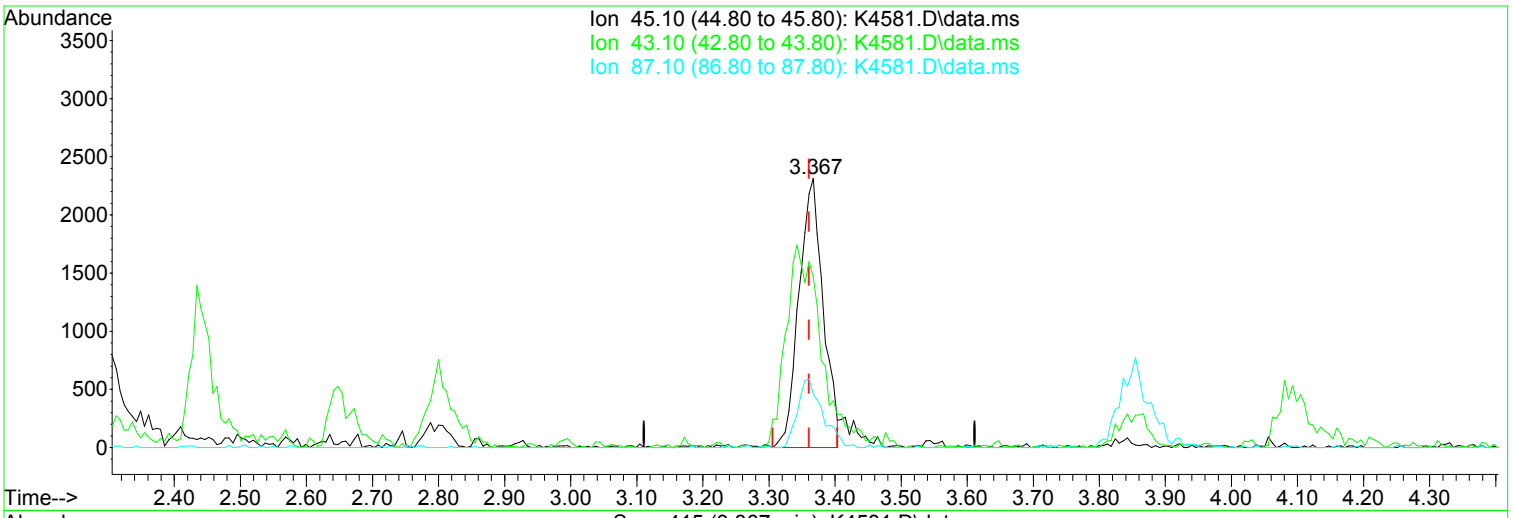
Poor integration.

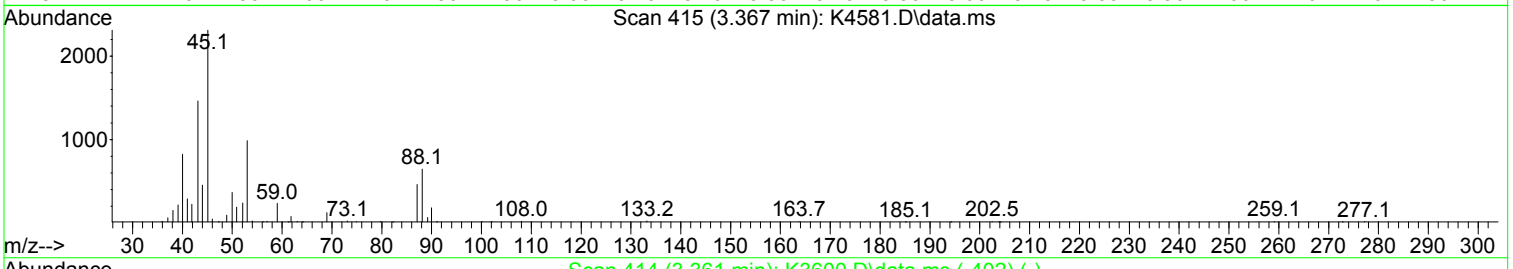
07/31/24

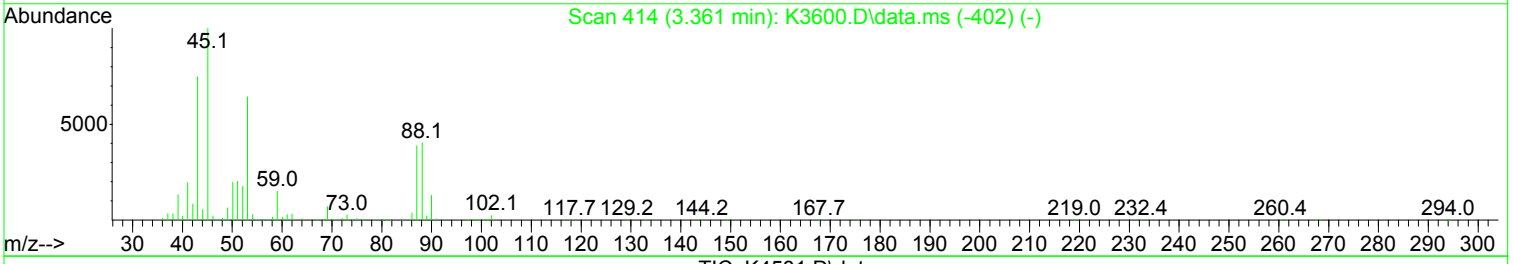
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(29) DIPE

3.367min (+ 0.006) 0.48 ug/L

response 5855

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	75.00	63.34
87.10	39.10	19.89
0.00	0.00	0.00

Manual Integration:

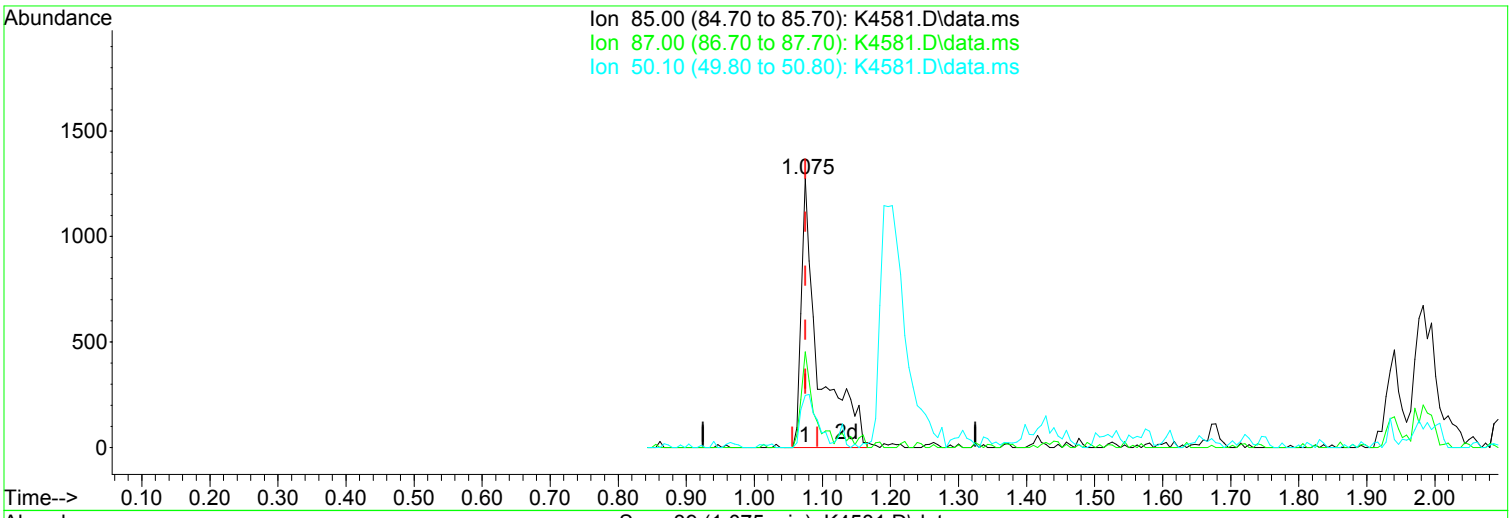
Before

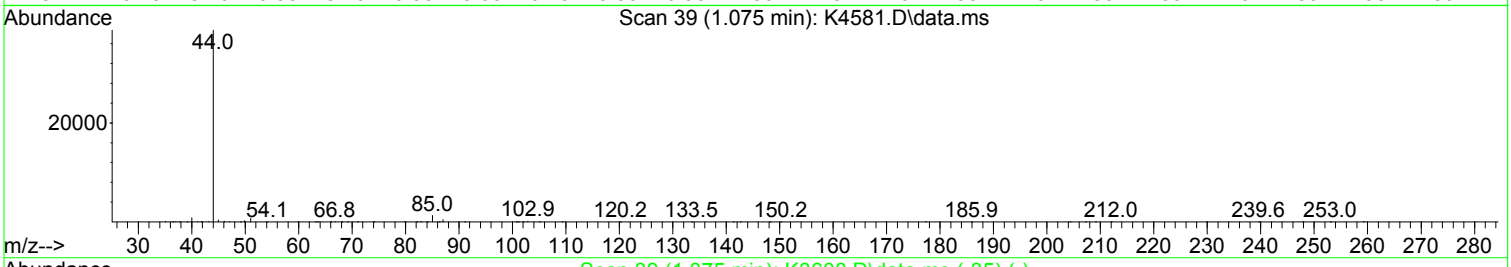
07/31/24

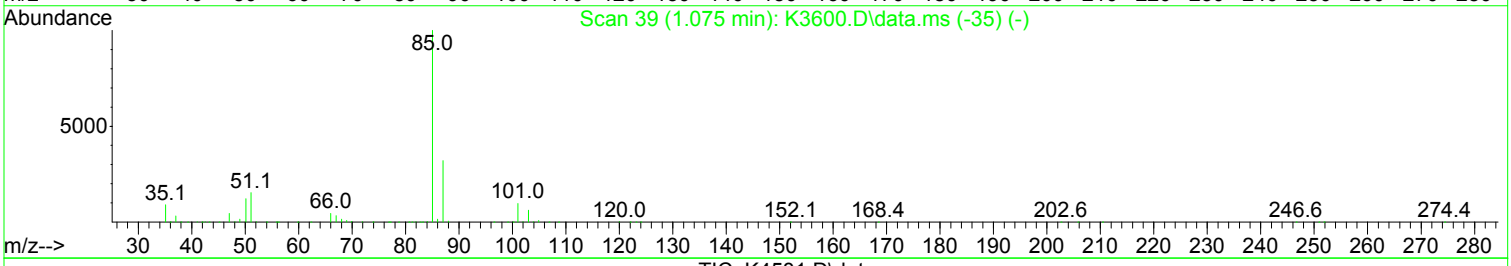
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(3) Dichlorodifluoromethane (P)

1.075min (-0.000) 0.54 ug/L m

response 2286

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	32.00	35.53
50.10	12.20	19.29
0.00	0.00	0.00

Manual Integration:

After

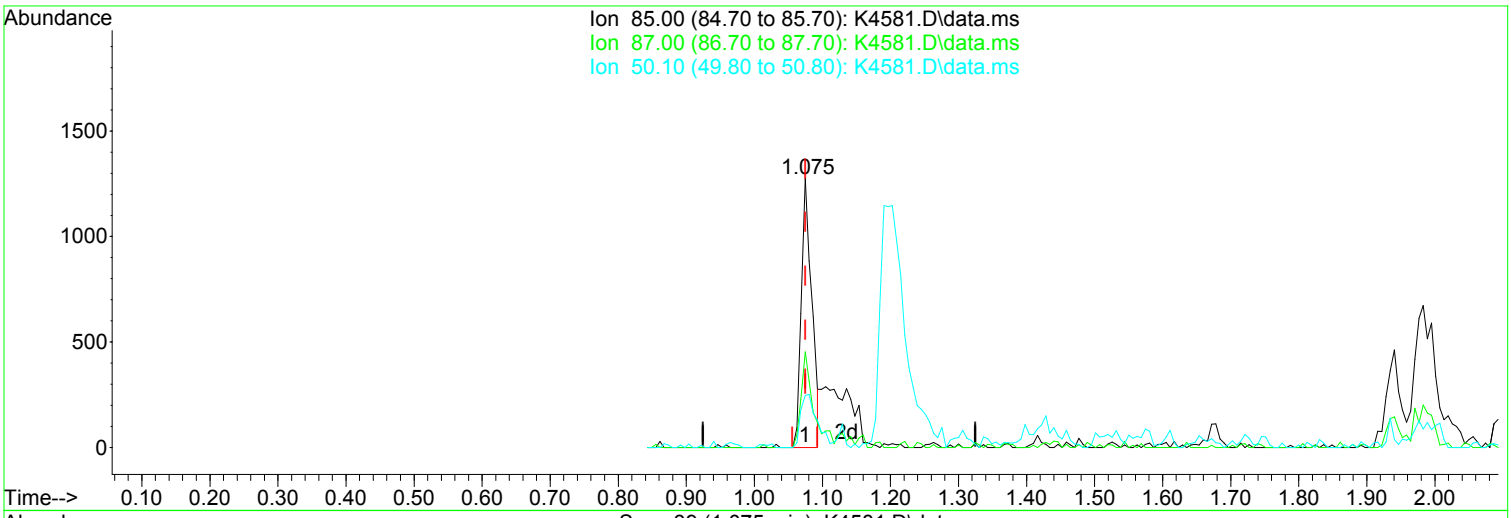
Split Peak.

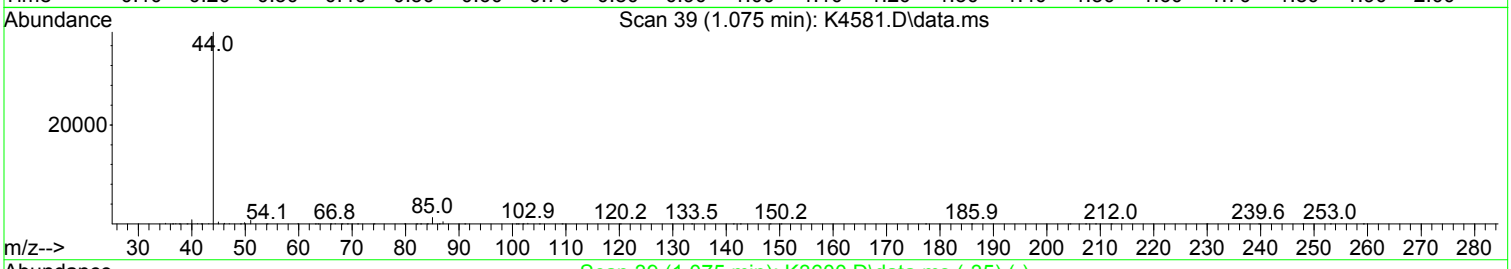
07/31/24

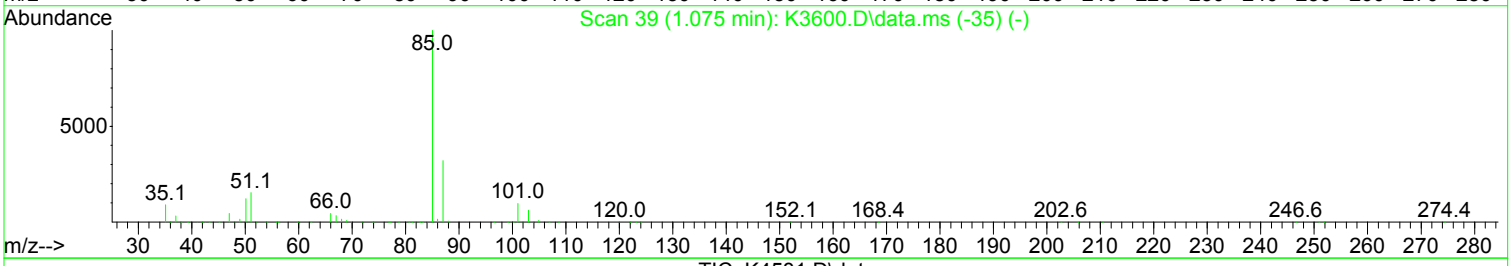
1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(3) Dichlorodifluoromethane (P)

1.075min (-0.000) 0.33 ug/L

response 1383

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	32.00	35.53
50.10	12.20	19.29
0.00	0.00	0.00

Manual Integration:

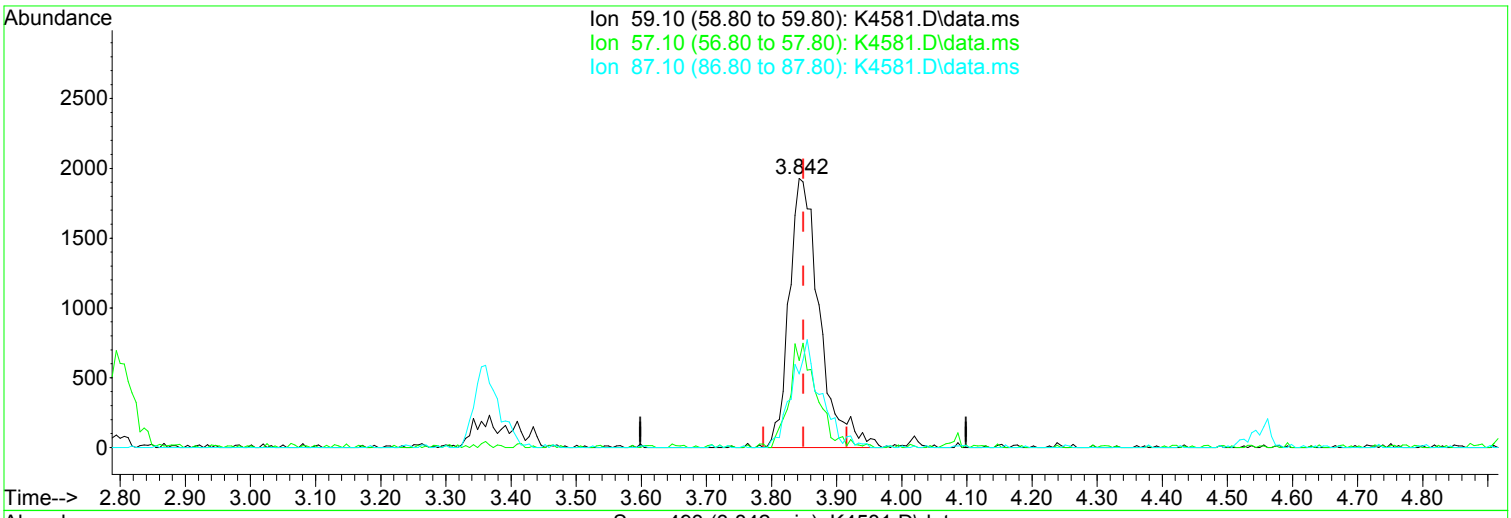
Before

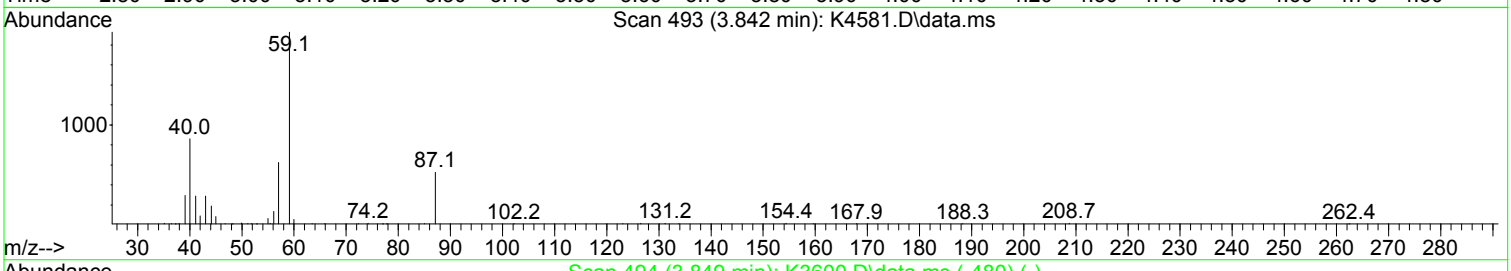
07/31/24

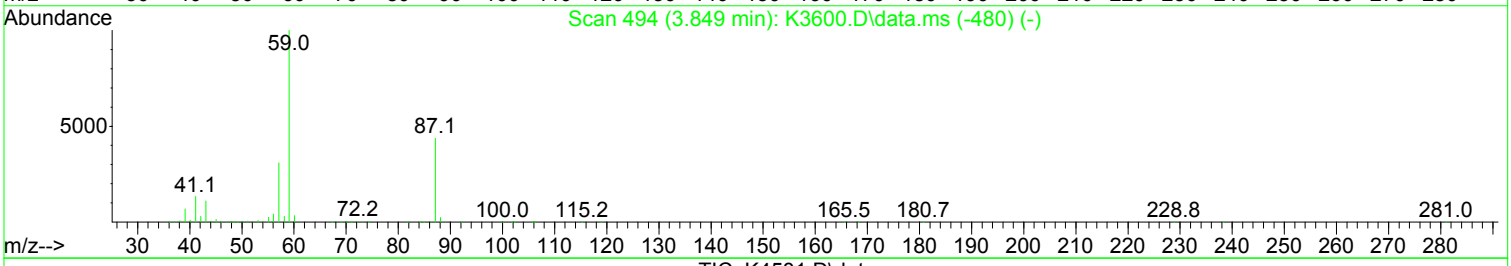
1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(31) ETBE

3.842min (-0.006) 0.48 ug/L m

response 6267

Ion	Exp%	Act%
59.10	100.00	100.00
57.10	30.90	32.38
87.10	43.70	27.30
0.00	0.00	0.00

Manual Integration:

After

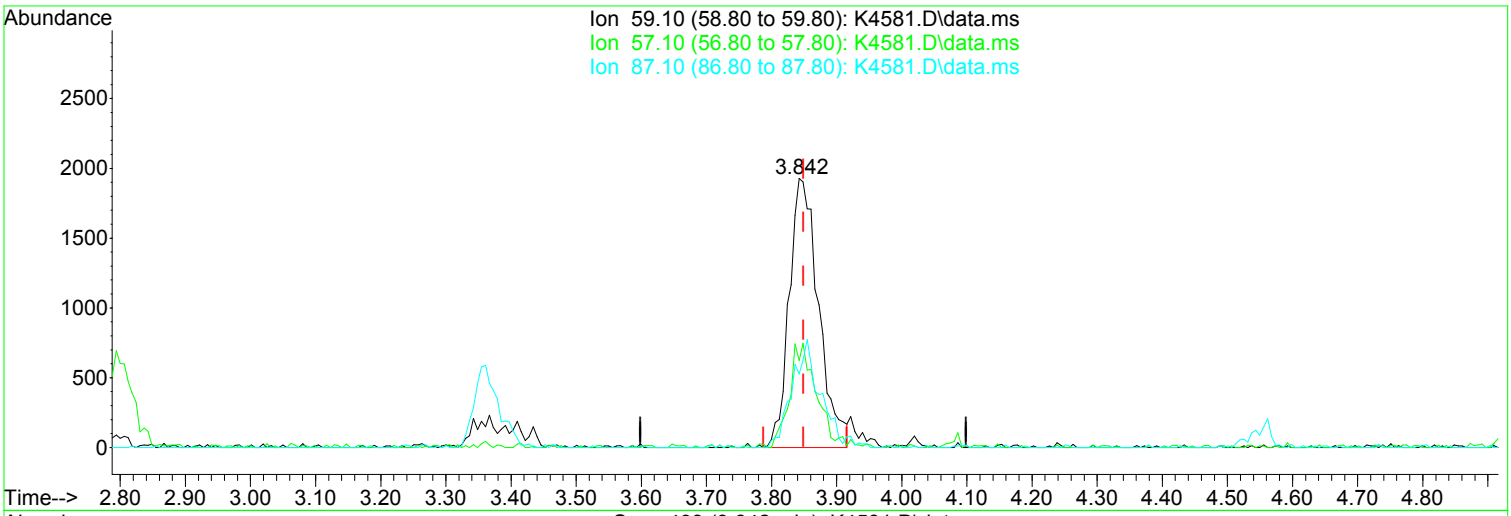
Poor integration.

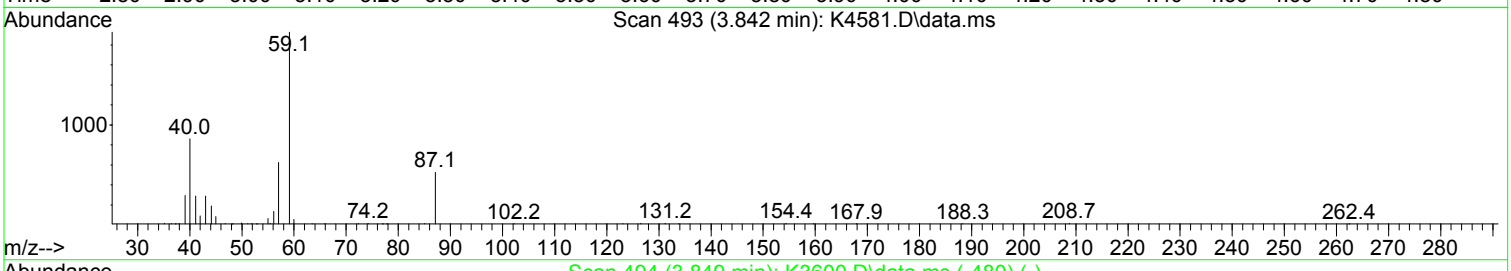
07/31/24

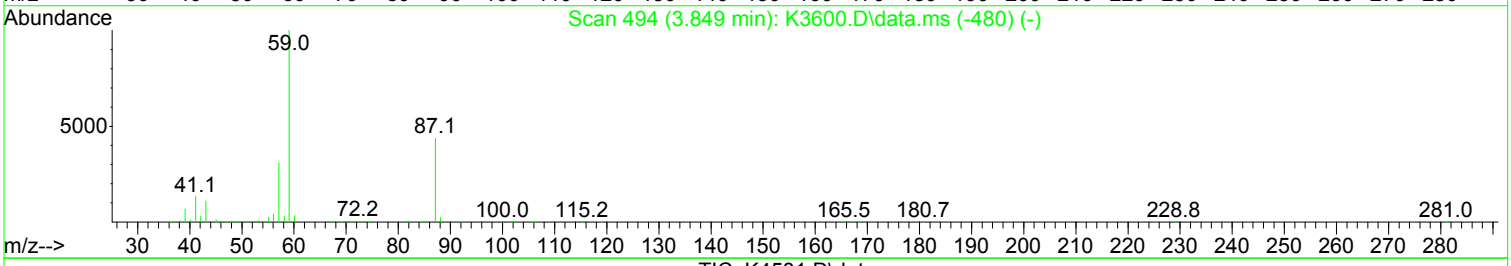
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(31) ETBE

3.842min (-0.006) 0.46 ug/L

response 6018

Ion	Exp%	Act%
59.10	100.00	100.00
57.10	30.90	32.38
87.10	43.70	27.30
0.00	0.00	0.00

Manual Integration:

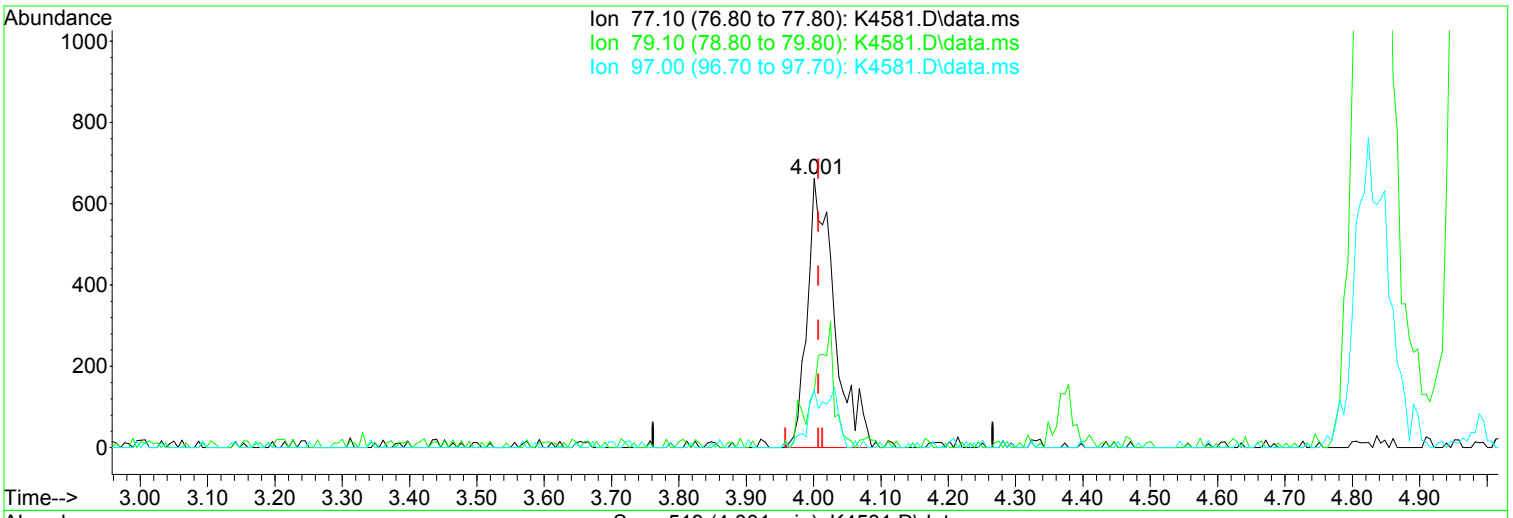
Before

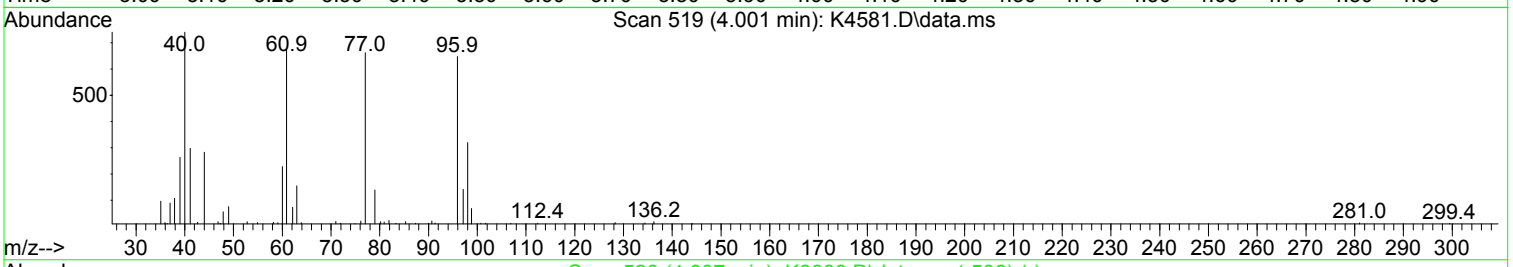
07/31/24

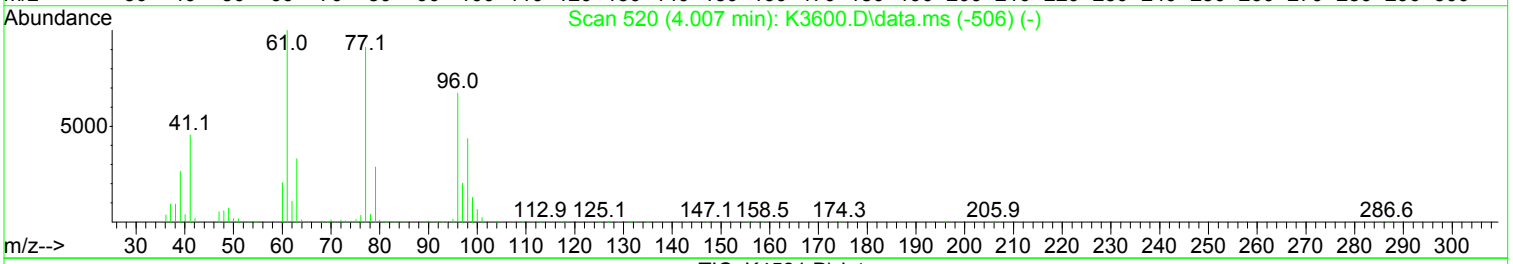
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(32) 2,2-Dichloropropane

4.001min (-0.006) 0.42 ug/L m

response 1844

Ion	Exp%	Act%
77.10	100.00	100.00
79.10	31.50	21.00
97.00	22.20	21.45
0.00	0.00	0.00

Manual Integration:

After

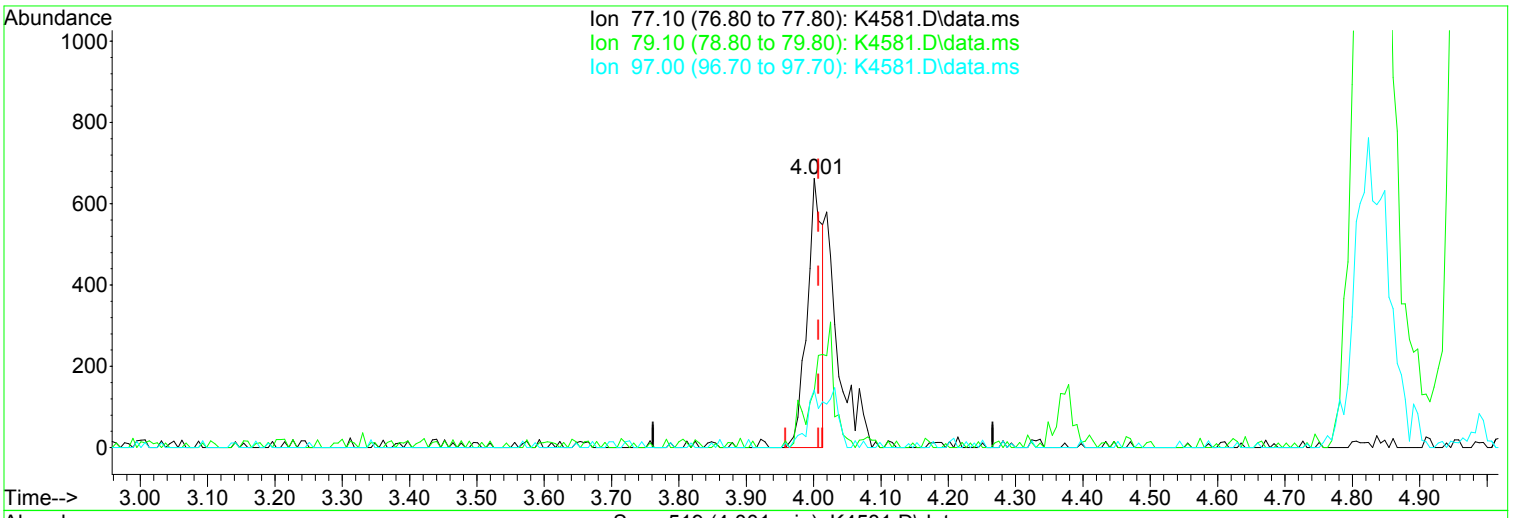
Split Peak.

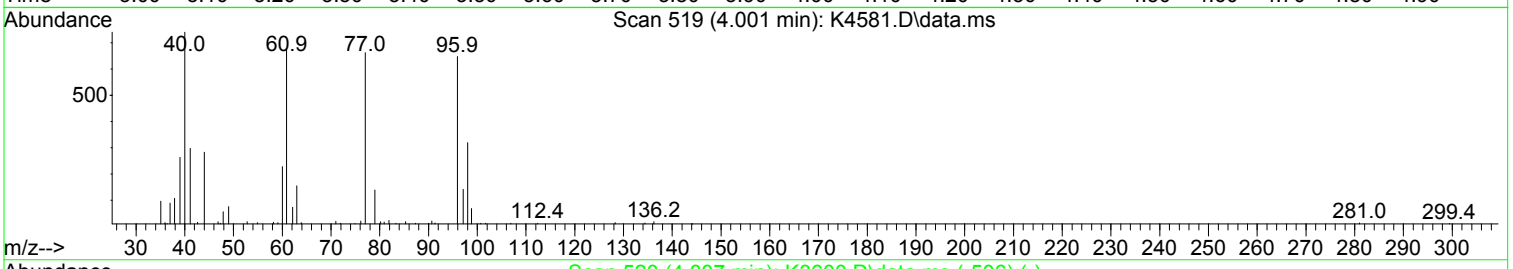
07/31/24

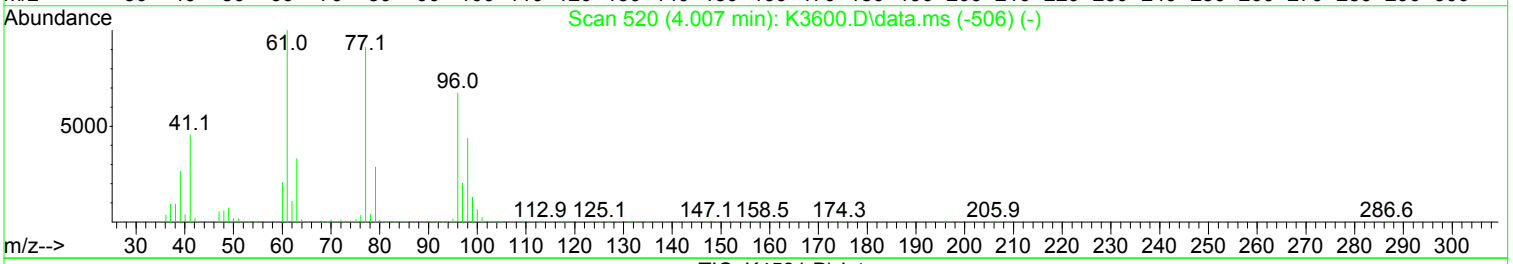
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(32) 2,2-Dichloropropane

4.001min (-0.006) 0.23 ug/L

response 1025

Ion	Exp%	Act%
77.10	100.00	100.00
79.10	31.50	21.00
97.00	22.20	21.45
0.00	0.00	0.00

Manual Integration:

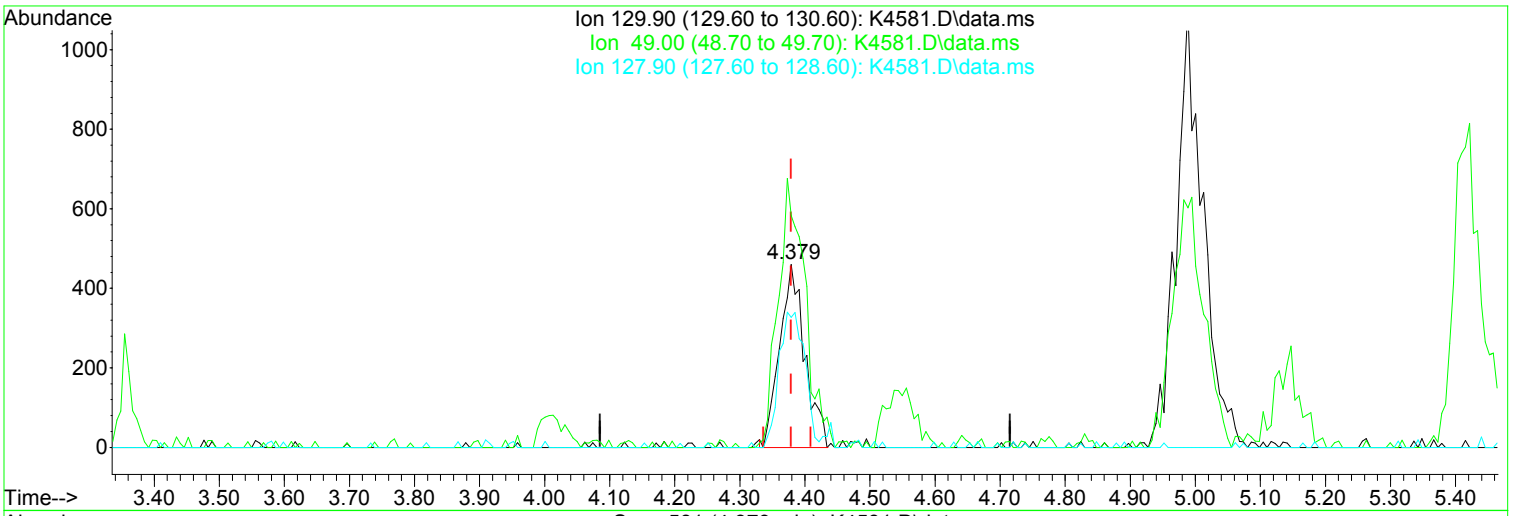
Before

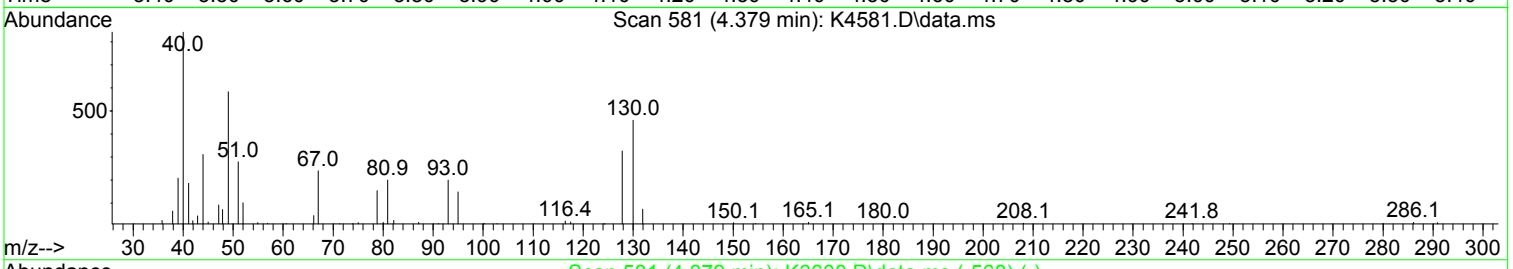
07/31/24

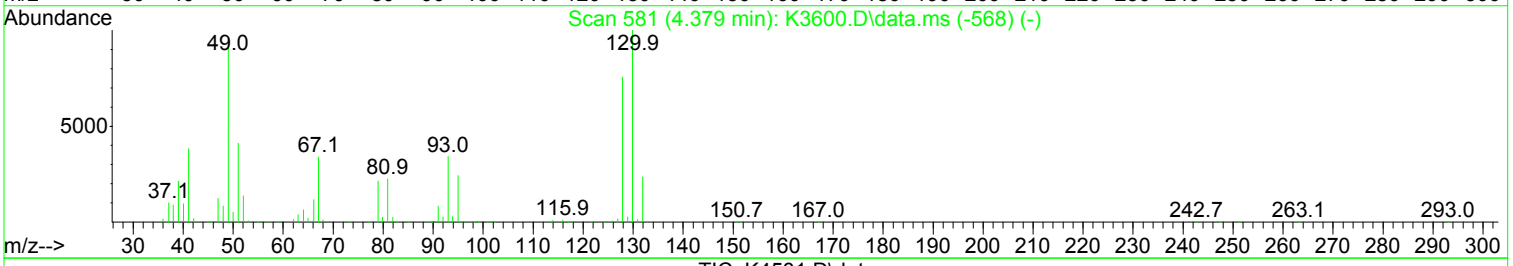
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(36) Bromochloromethane

4.379min (-0.000) 0.48 ug/L m

response 1229

Ion	Exp%	Act%
129.90	100.00	100.00
49.00	96.20	126.74#
127.90	75.60	71.09
0.00	0.00	0.00

Manual Integration:

After

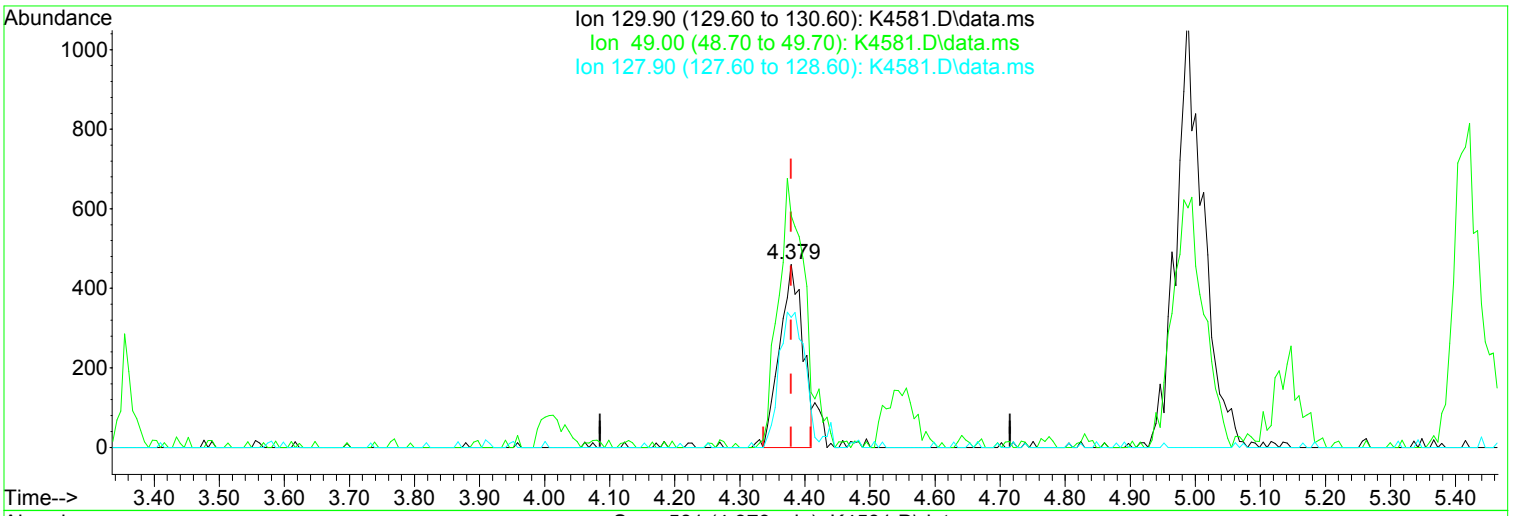
Split Peak.

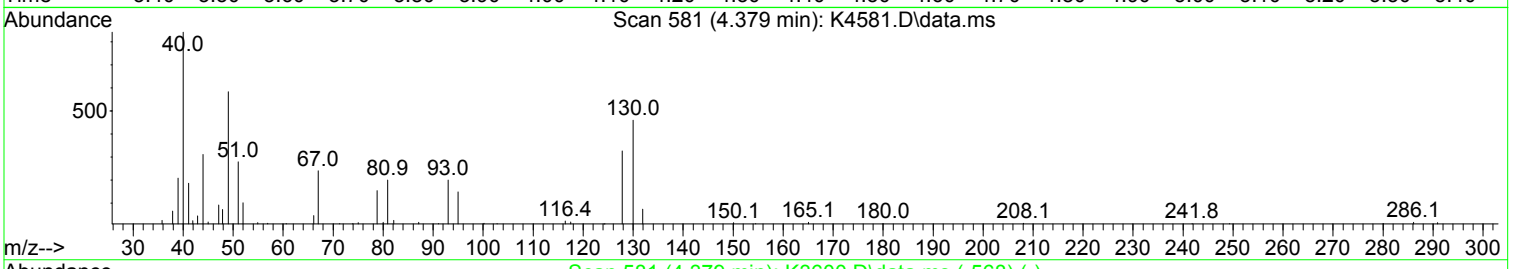
07/31/24

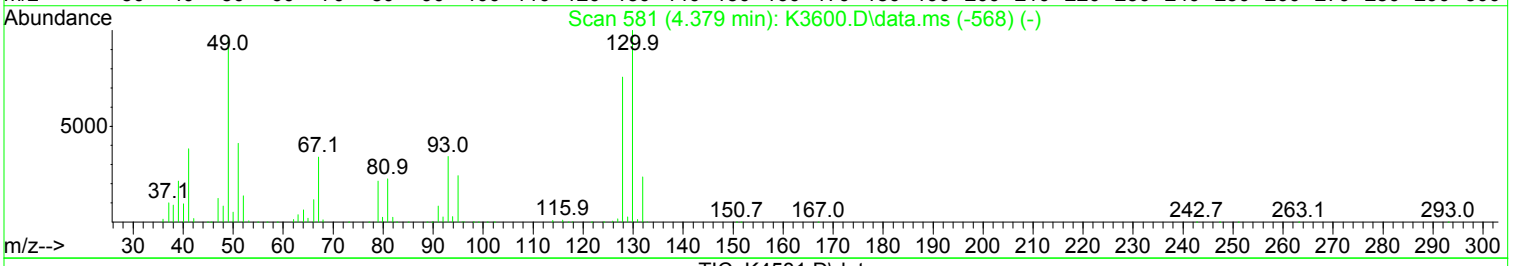
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(36) Bromochloromethane

4.379min (-0.000) 0.44 ug/L

response 1127

Ion	Exp%	Act%
129.90	100.00	100.00
49.00	96.20	126.74#
127.90	75.60	71.09
0.00	0.00	0.00

Manual Integration:

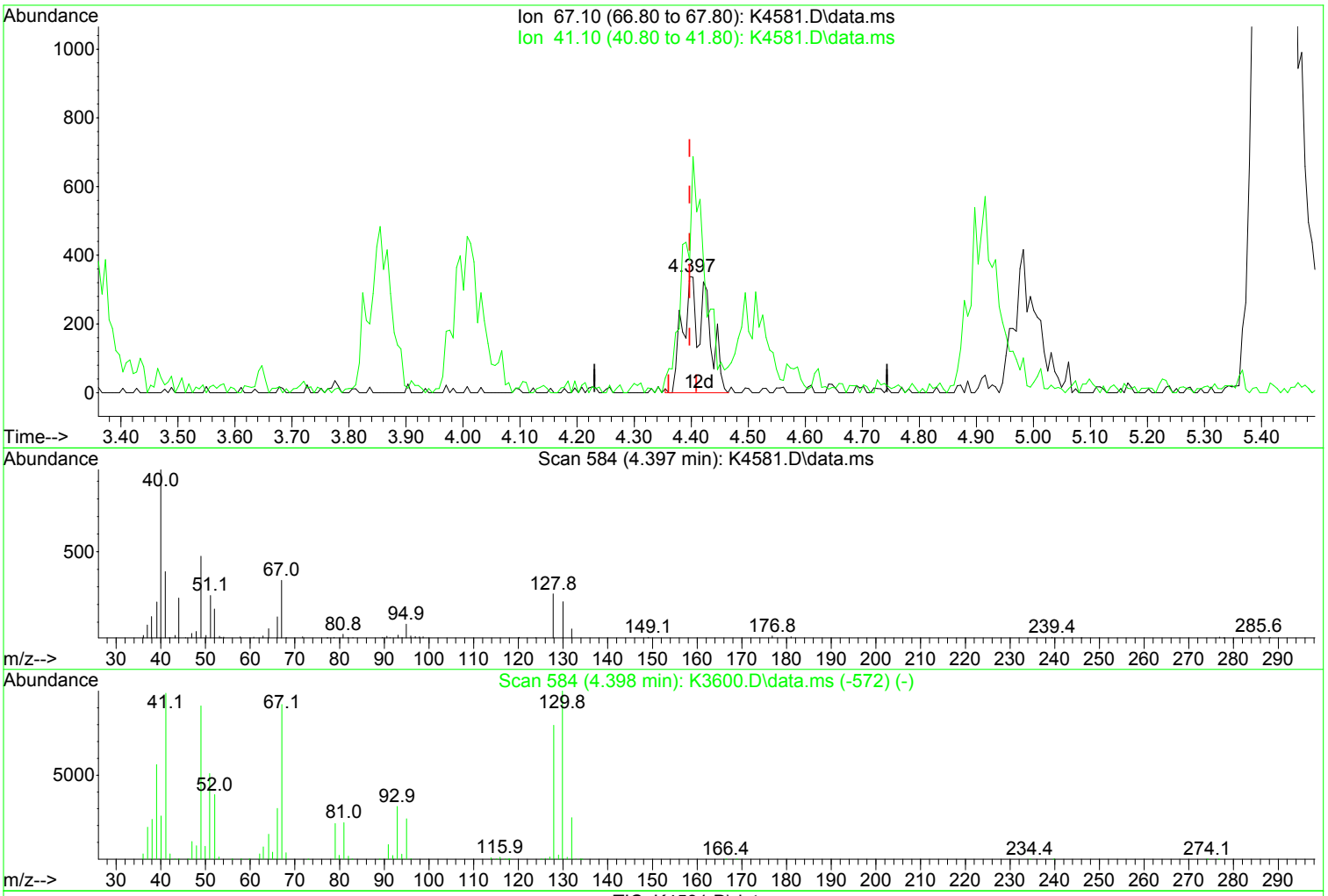
Before

07/31/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



TIC: K4581.D\data.ms

(37) Methacrylonitrile

4.397min (-0.000) 0.44 ug/L m

response 981

Ion	Exp%	Act%
67.10	100.00	100.00
41.10	107.20	114.20
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

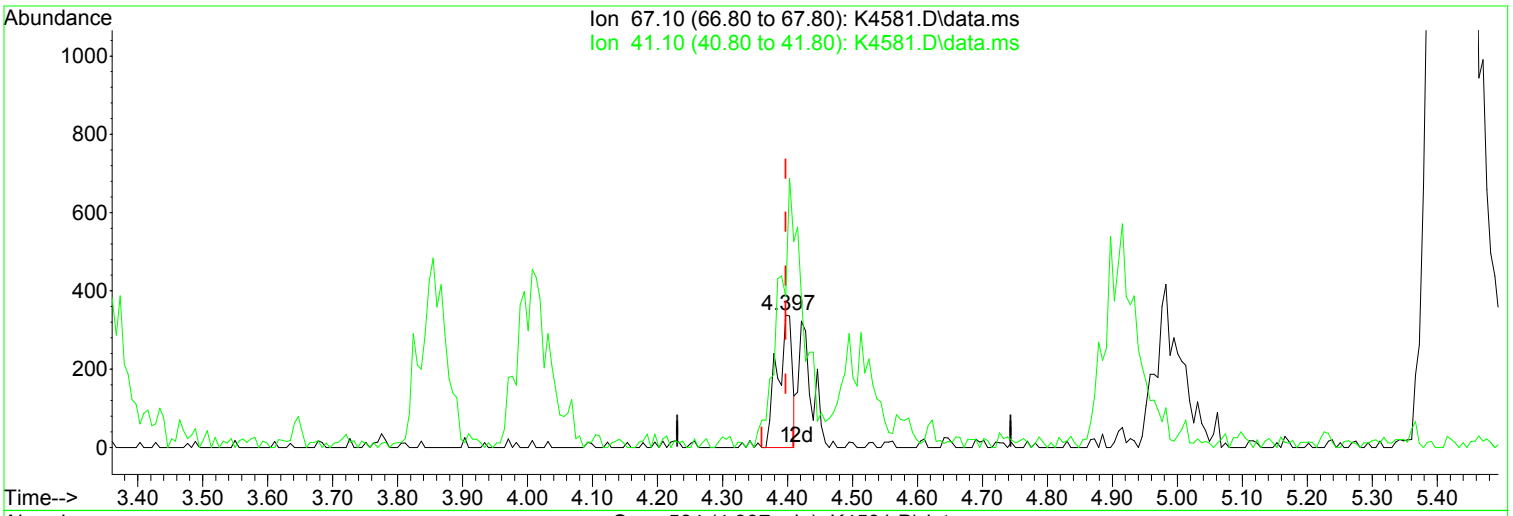
Split Peak.

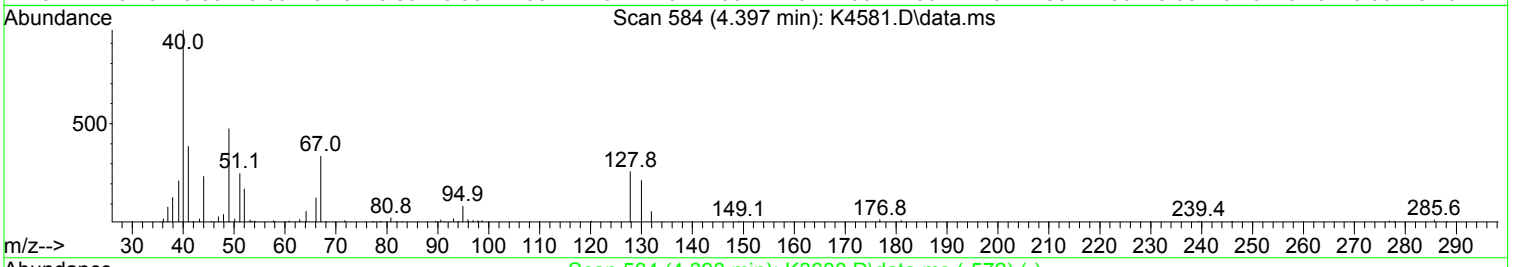
07/31/24

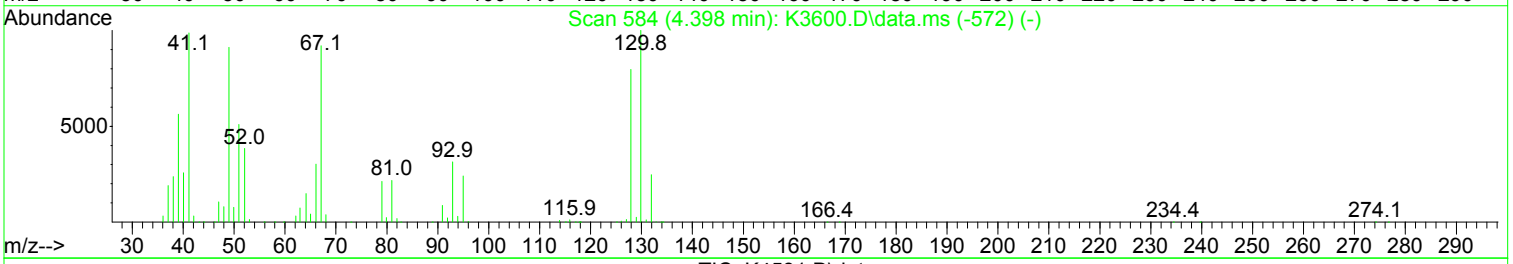
1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(37) Methacrylonitrile

4.397min (-0.000) 0.24 ug/L

response 530

Ion	Exp%	Act%
67.10	100.00	100.00
41.10	107.20	114.20
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

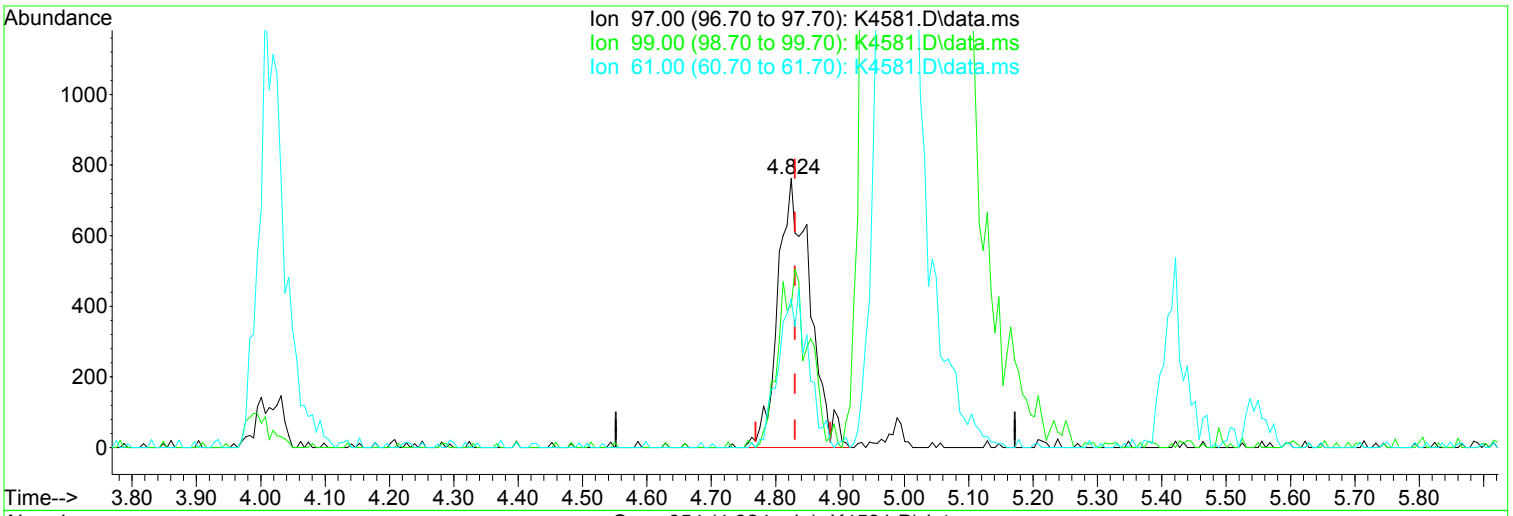
Before

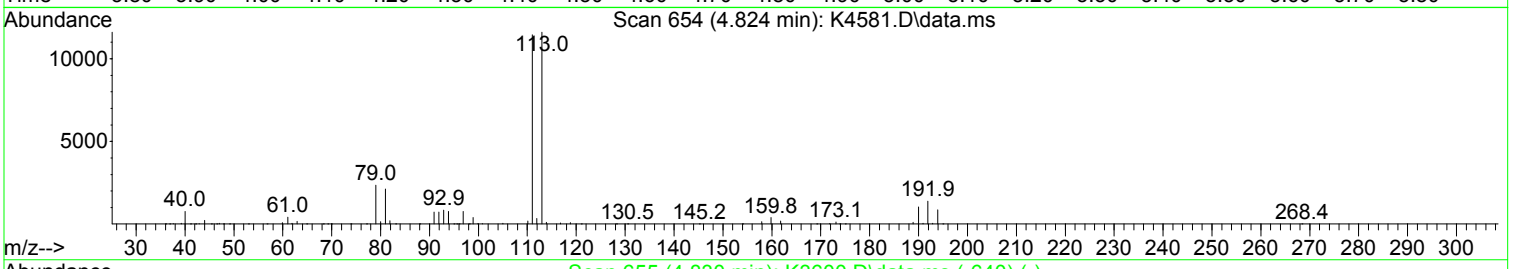
07/31/24

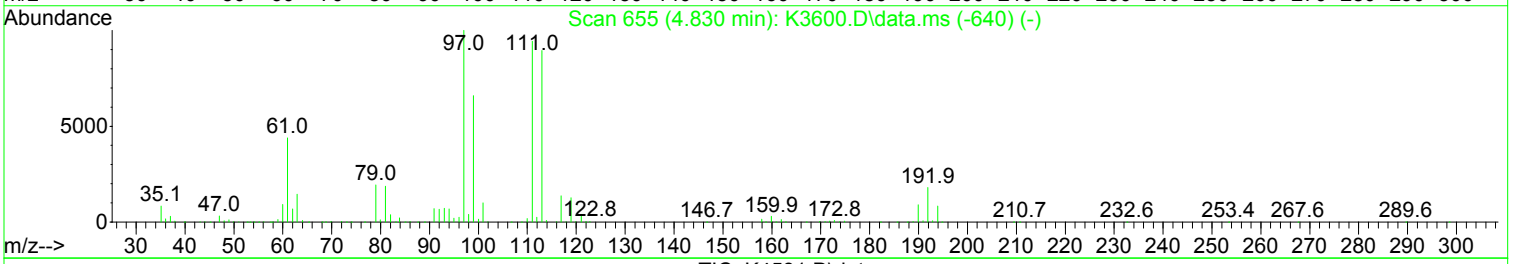
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(40) 1,1,1-Trichloroethane (P)

4.824min (-0.006) 0.51 ug/L m

response 2649

Ion	Exp%	Act%
97.00	100.00	100.00
99.00	66.00	52.76
61.00	44.00	55.25
0.00	0.00	0.00

Manual Integration:

After

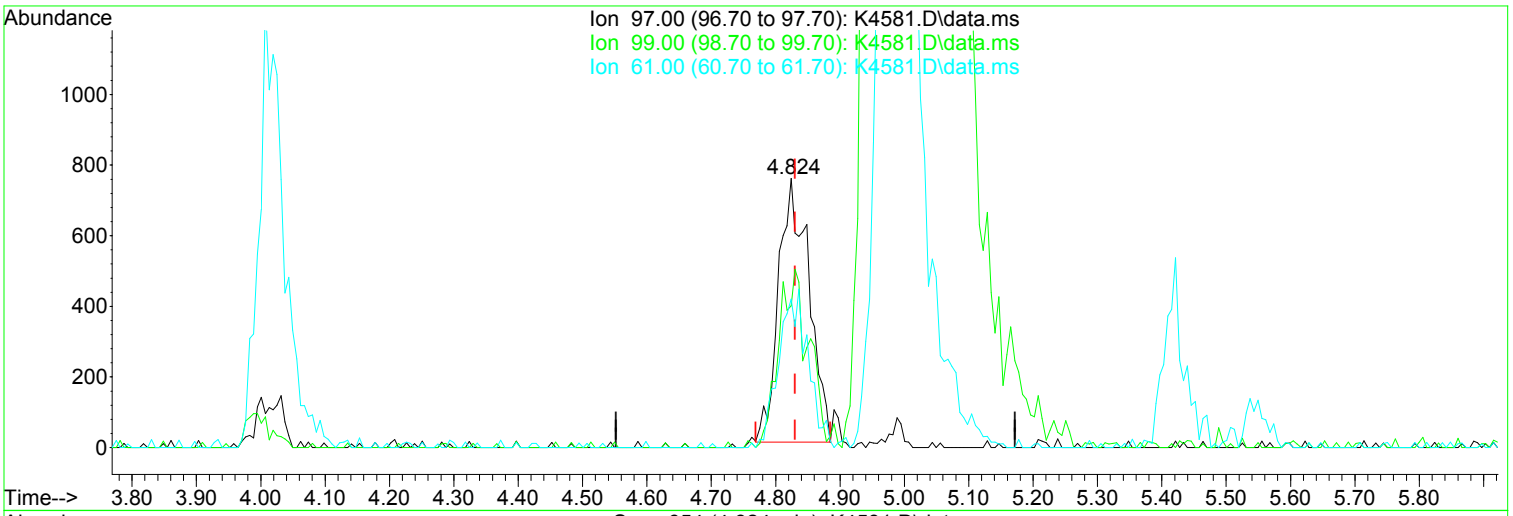
Poor integration.

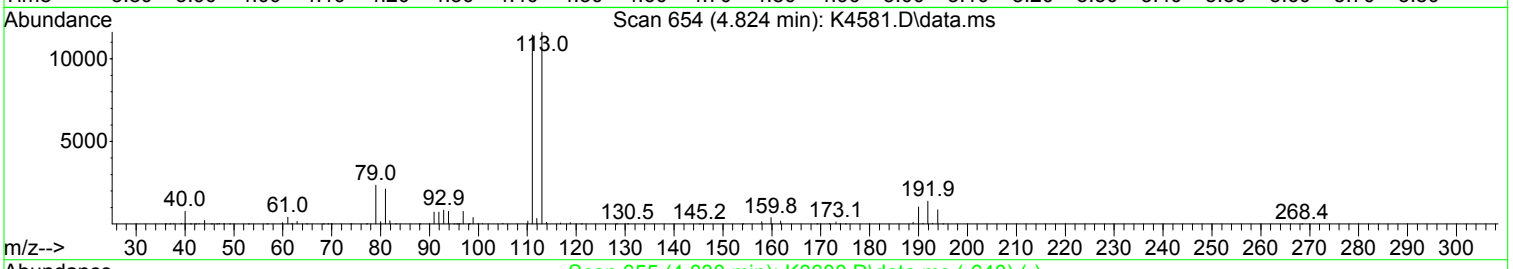
07/31/24

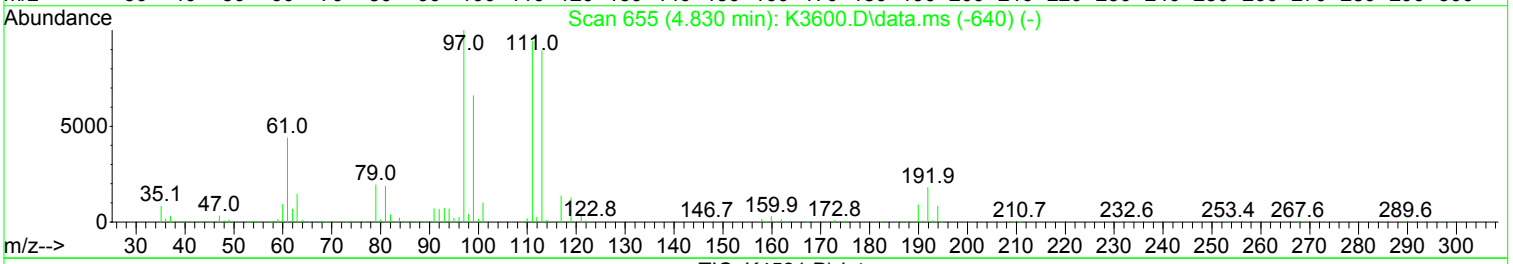
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(40) 1,1,1-Trichloroethane (P)

4.824min (-0.006) 0.47 ug/L

response 2434

Ion	Exp%	Act%
97.00	100.00	100.00
99.00	66.00	52.76
61.00	44.00	55.25
0.00	0.00	0.00

Manual Integration:

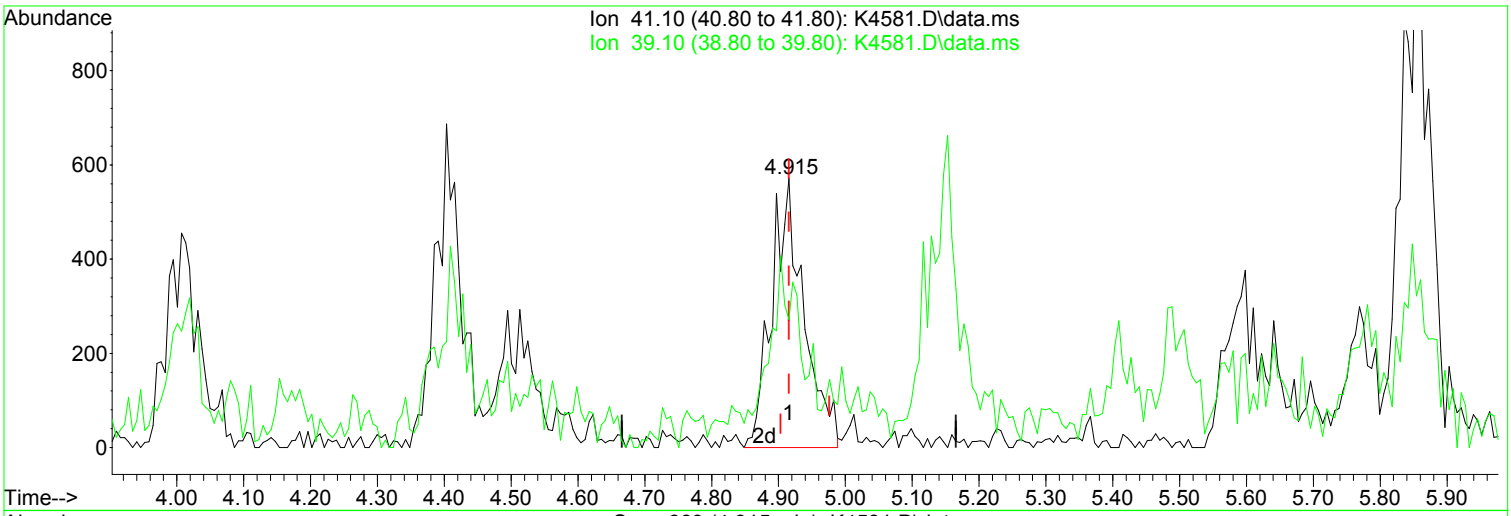
Before

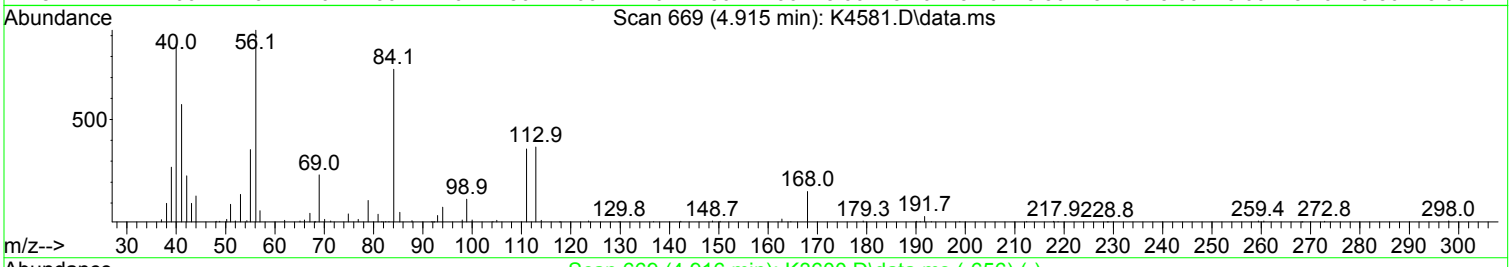
07/31/24

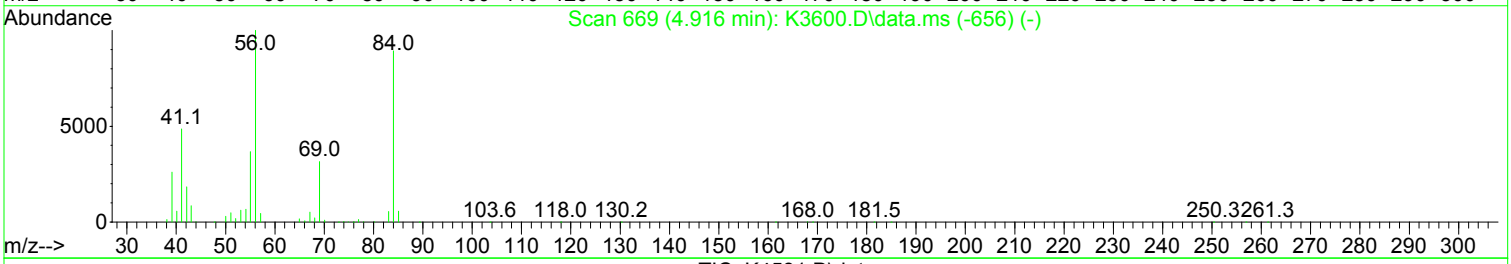
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(43) Cyclohexane (P)

4.915min (-0.000) 0.53 ug/L m

response 1910

Ion	Exp%	Act%
41.10	100.00	100.00
39.10	54.10	47.64
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

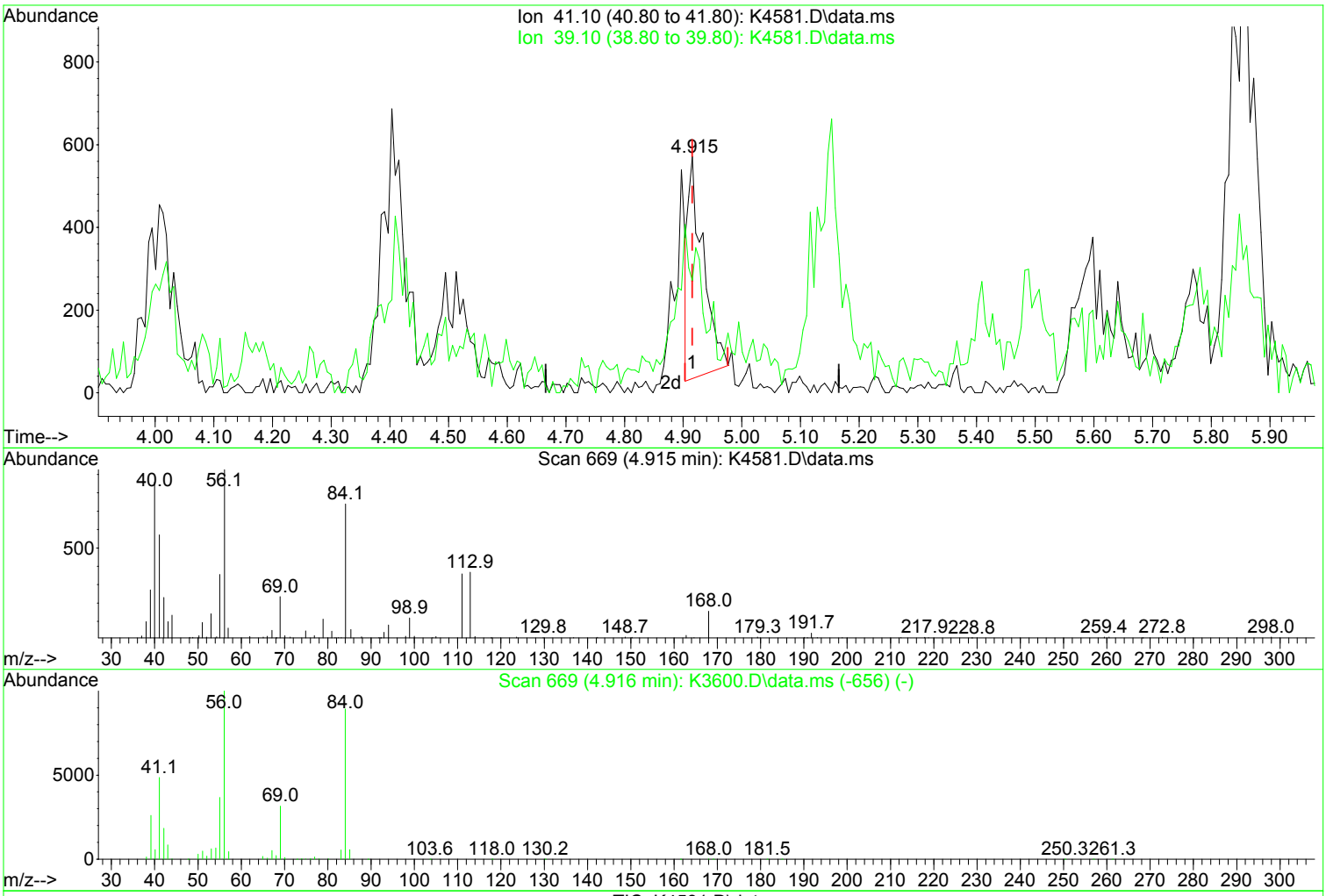
Split Peak.

07/31/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



TIC: K4581.D\data.ms

(43) Cyclohexane (P)

4.915min (-0.000) 0.27 ug/L

response 968

Ion	Exp%	Act%
41.10	100.00	100.00
39.10	54.10	47.64
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

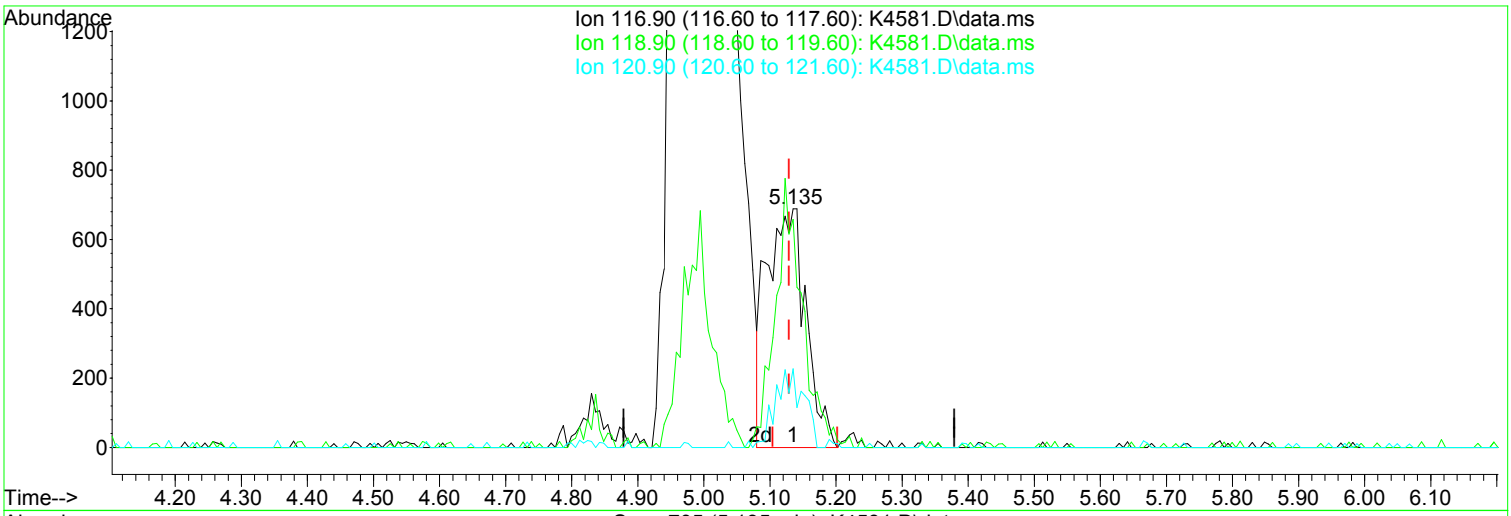
Before

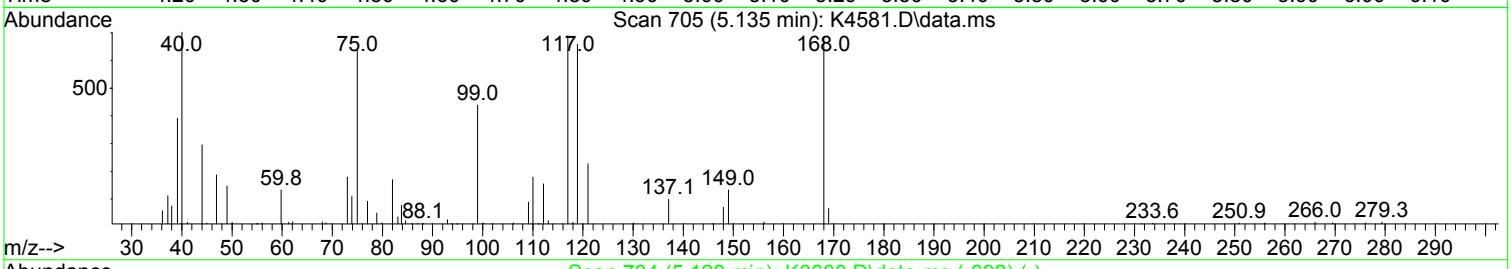
07/31/24

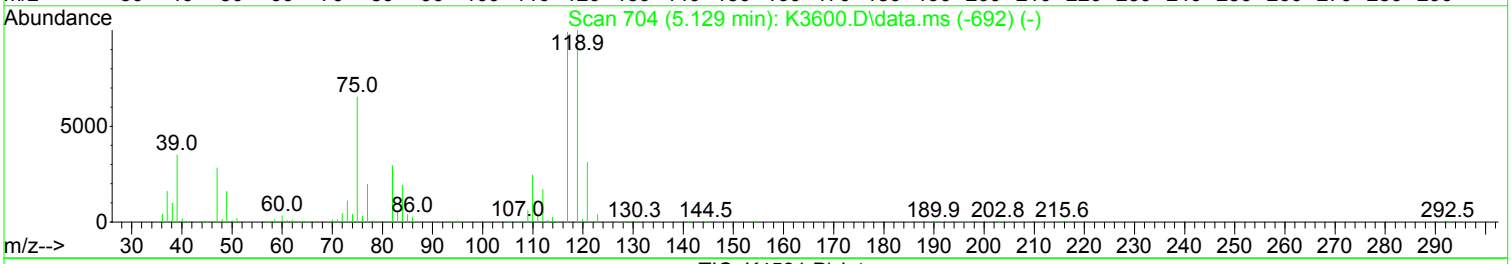
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(45) Carbontetrachloride (P)

5.135min (+ 0.006) 0.58 ug/L m

response 2831

Ion	Exp%	Act%
116.90	100.00	100.00
118.90	98.90	95.50
120.90	30.70	32.95
0.00	0.00	0.00

Manual Integration:

After

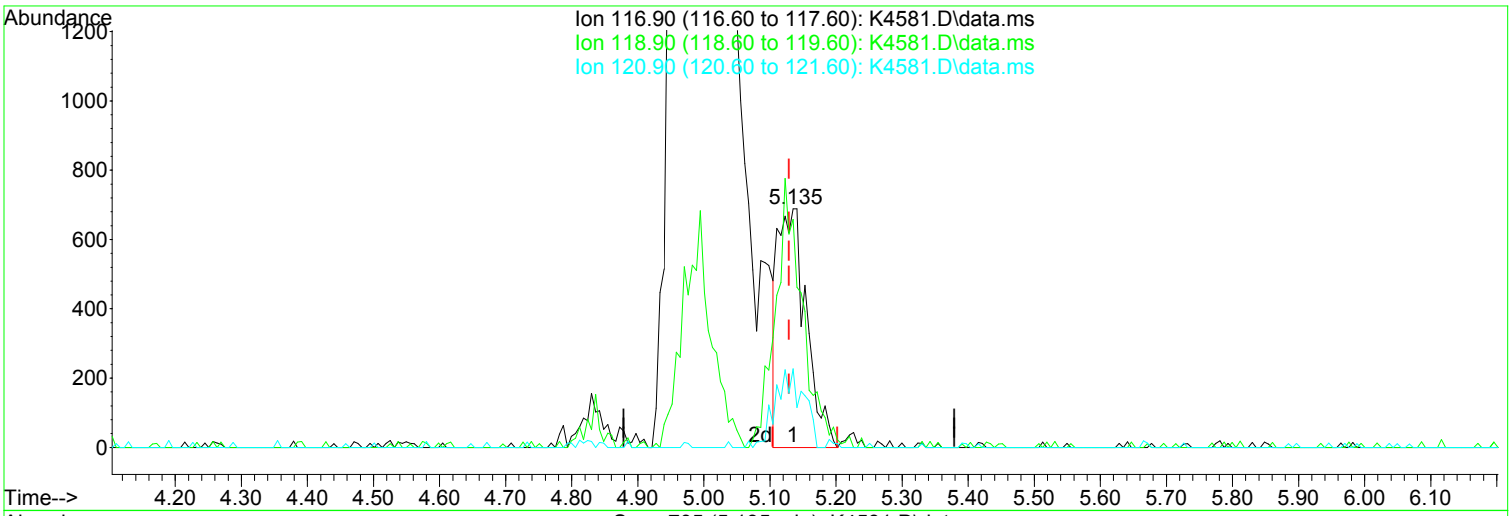
Poor integration.

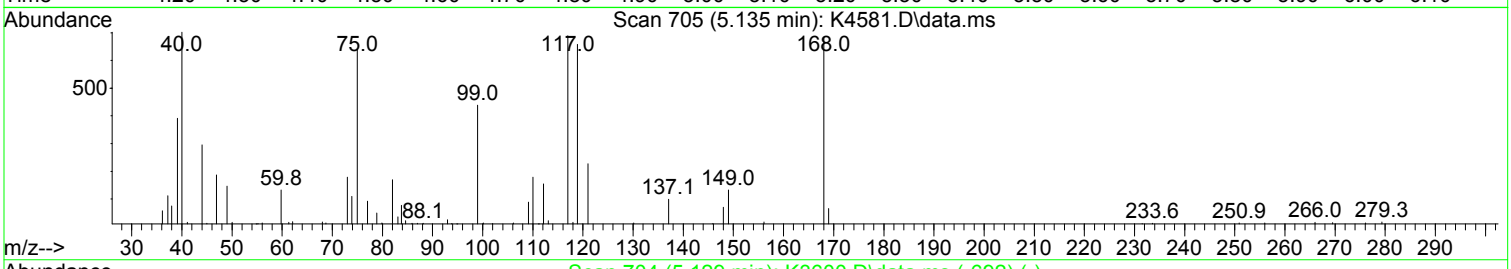
07/31/24

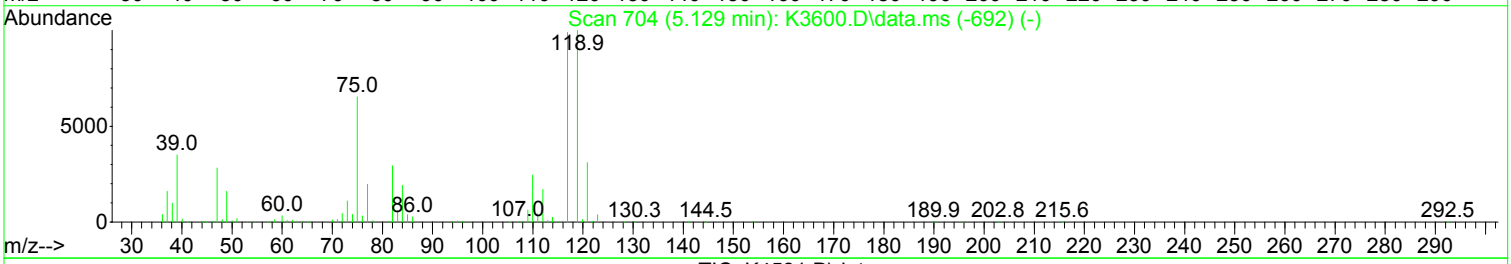
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(45) Carbontetrachloride (P)

5.135min (+ 0.006) 0.43 ug/L

response 2070

Ion	Exp%	Act%
116.90	100.00	100.00
118.90	98.90	95.50
120.90	30.70	32.95
0.00	0.00	0.00

Manual Integration:

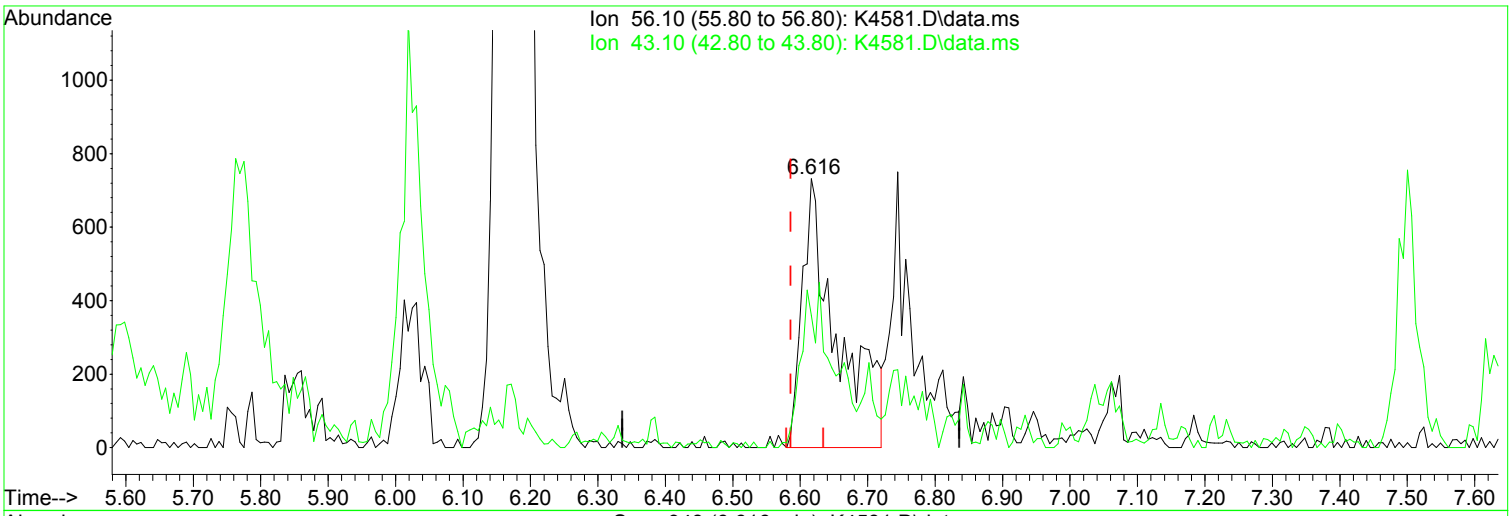
Before

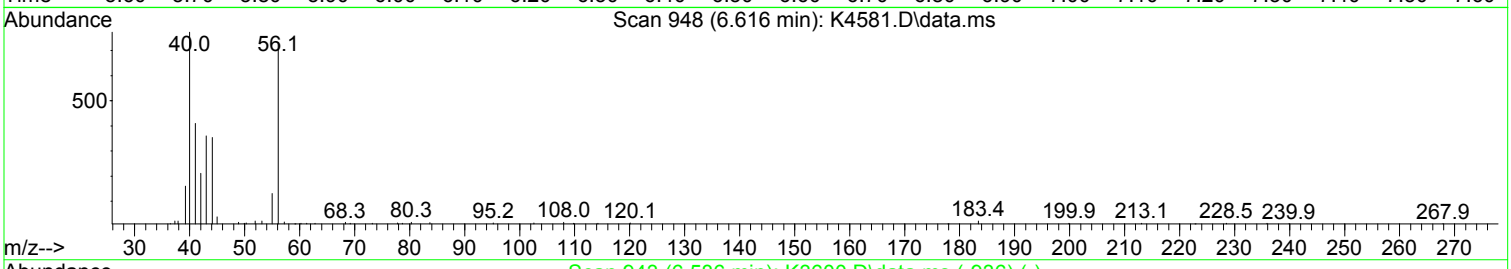
07/31/24

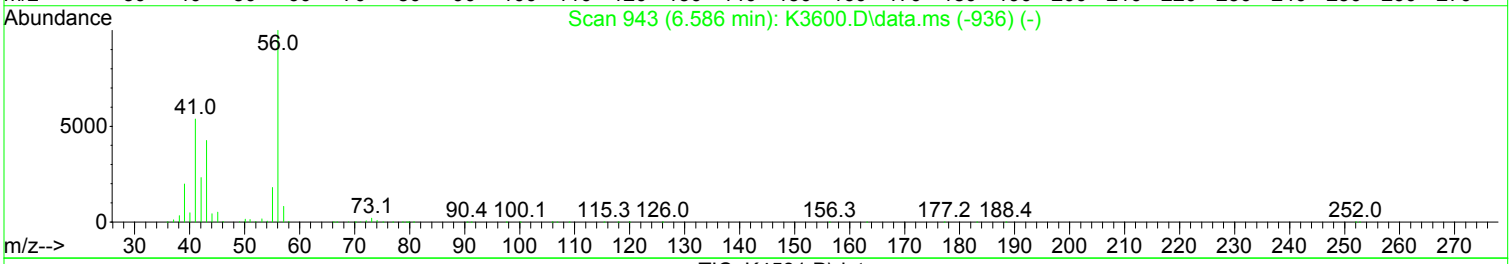
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(52) 1-Butanol

6.616min (+ 0.030) 12.98 ug/L m

response 2663

Ion	Exp%	Act%
56.10	100.00	100.00
43.10	42.60	49.18
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

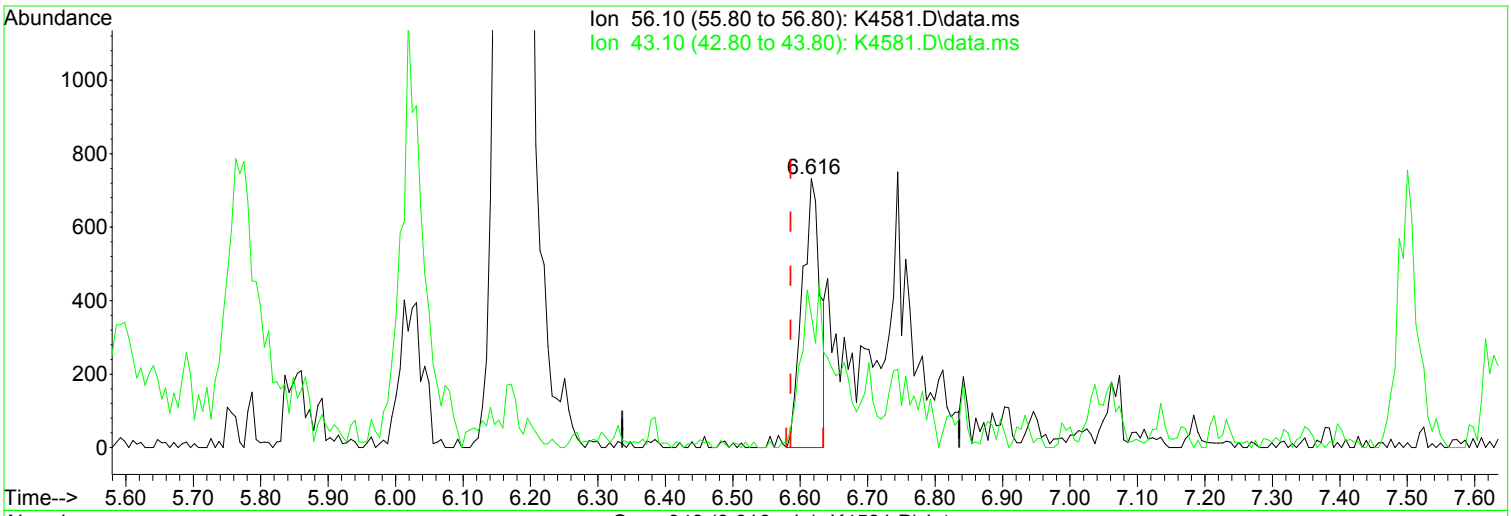
Poor integration.

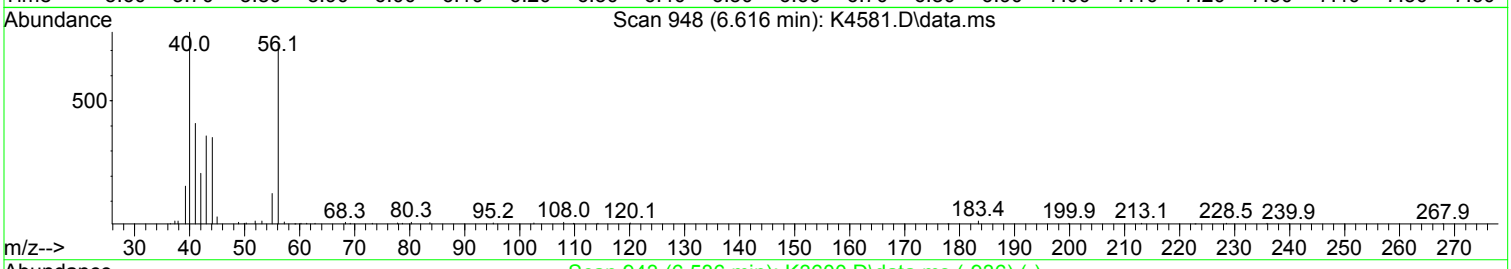
07/31/24

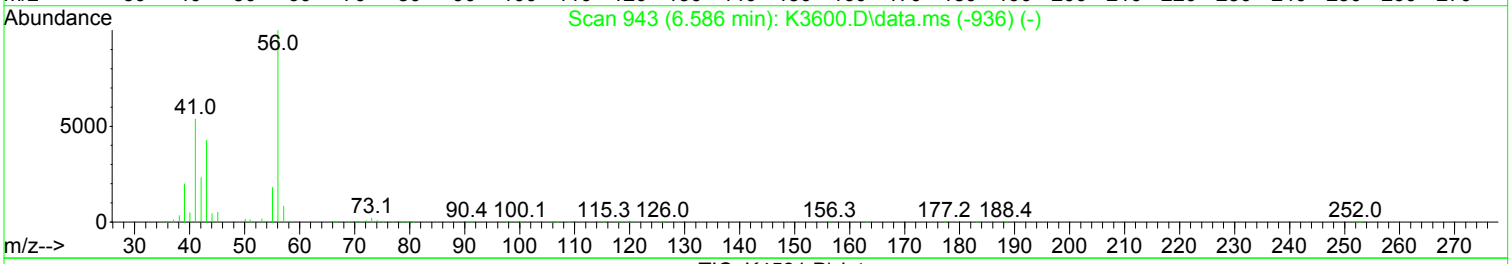
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(52) 1-Butanol

6.616min (+ 0.030) 6.58 ug/L

response 1351

Ion	Exp%	Act%
56.10	100.00	100.00
43.10	42.60	49.18
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

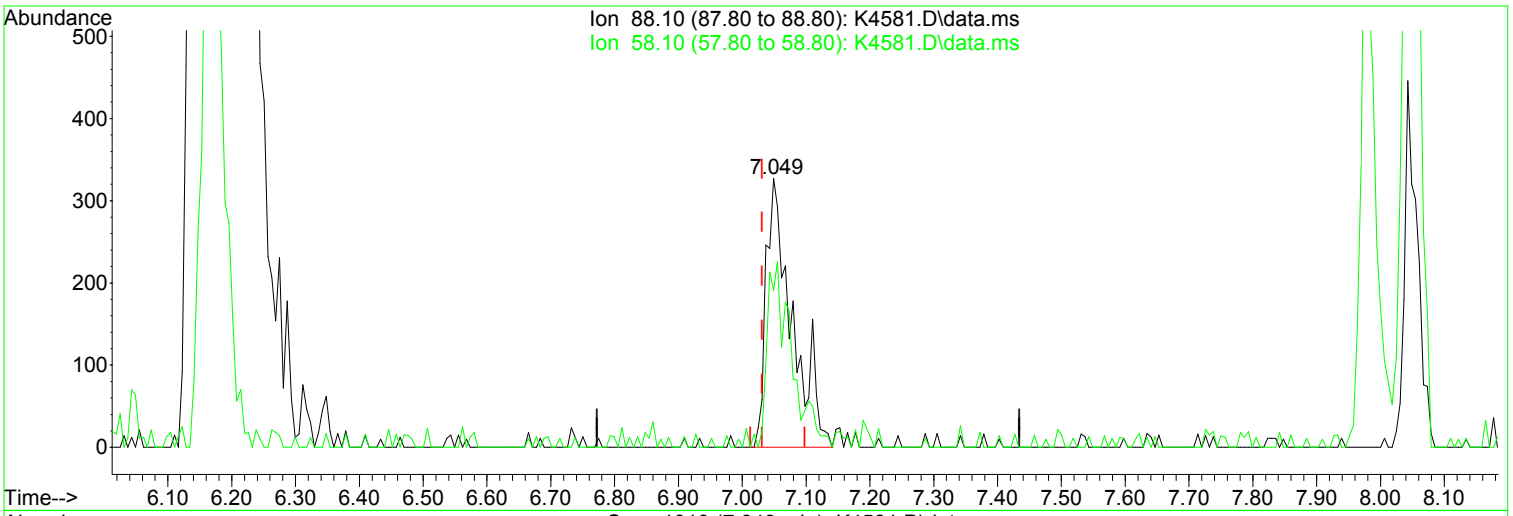
Before

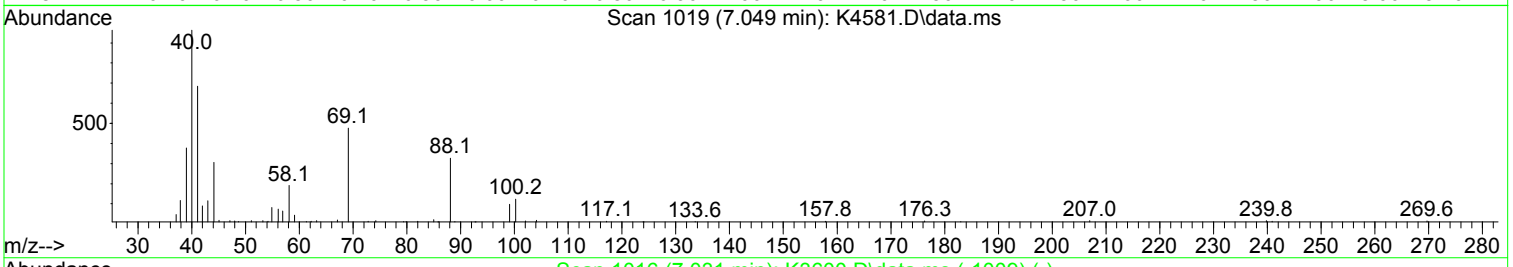
07/31/24

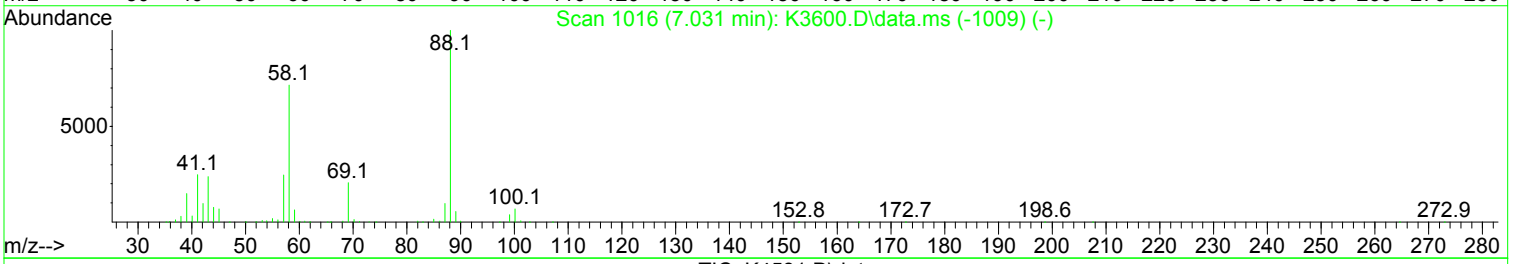
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(57) 1,4-Dioxane

7.049min (+ 0.018) 11.03 ug/L m

response 921

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	71.50	58.41
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

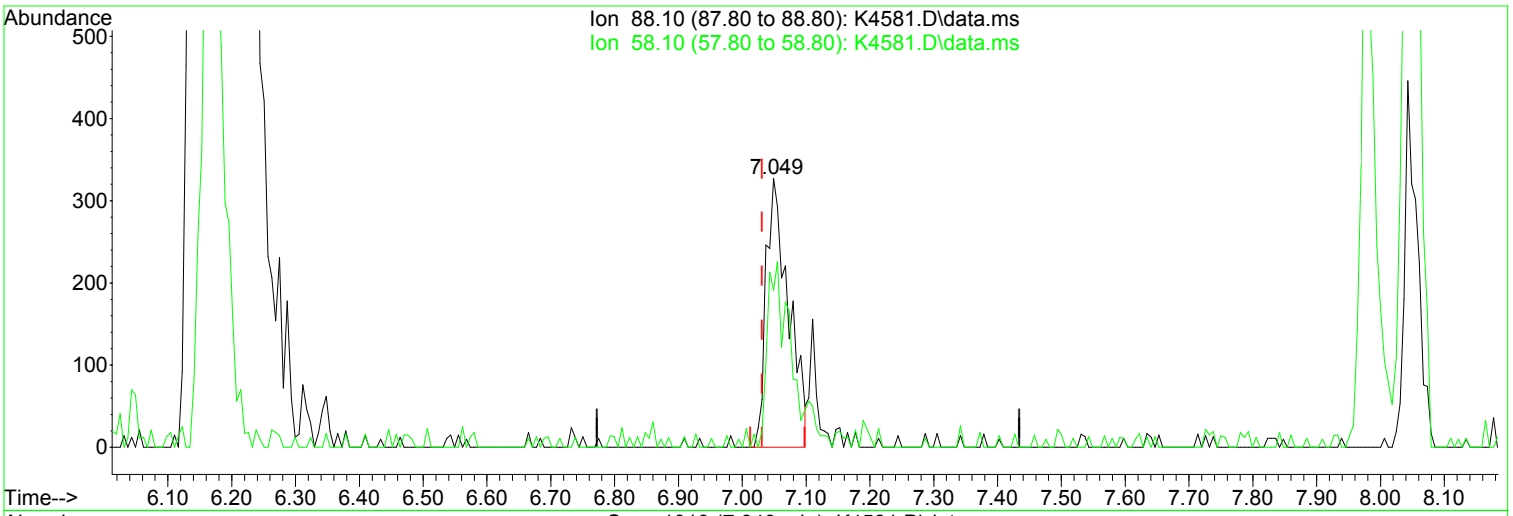
Poor integration.

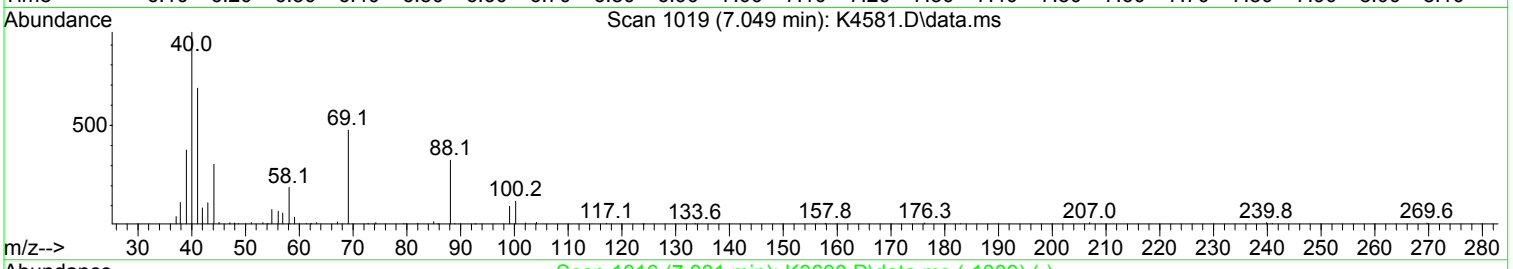
07/31/24

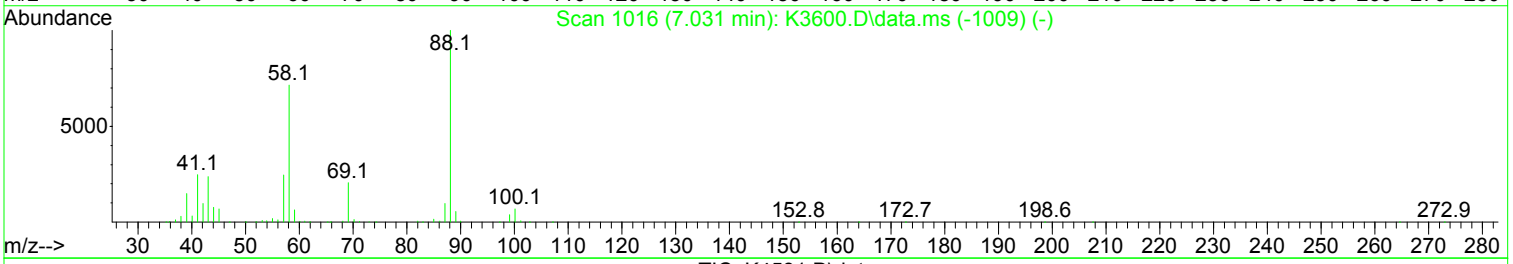
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(57) 1,4-Dioxane

7.049min (+ 0.018) 9.54 ug/L

response 797

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	71.50	58.41
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

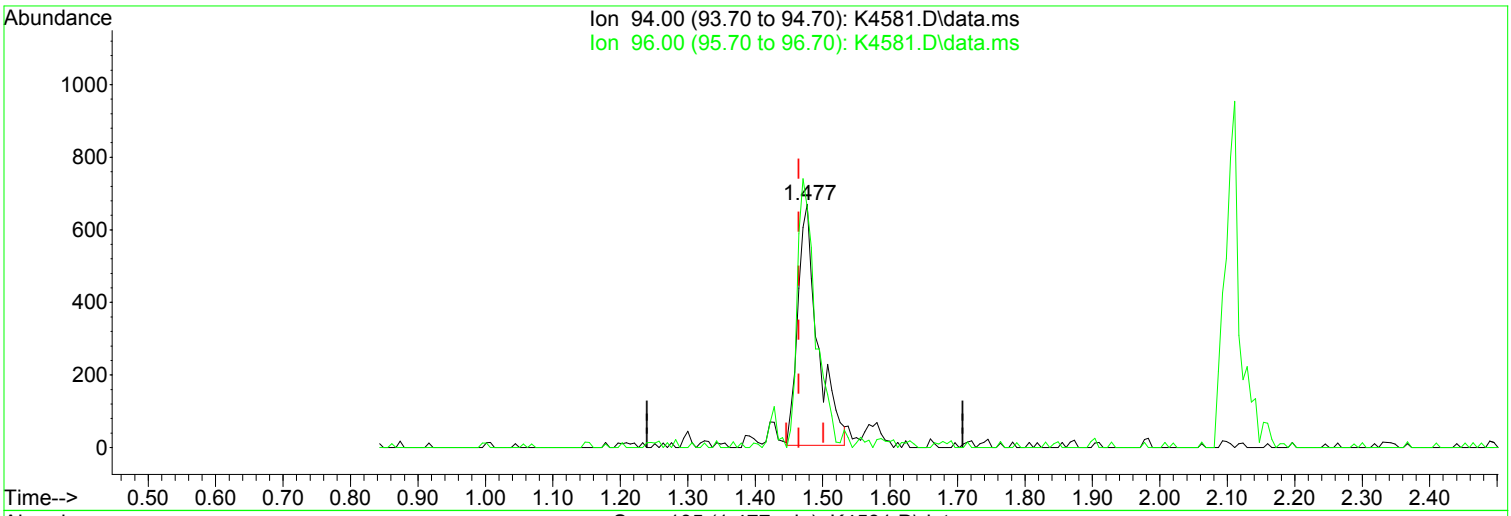
Before

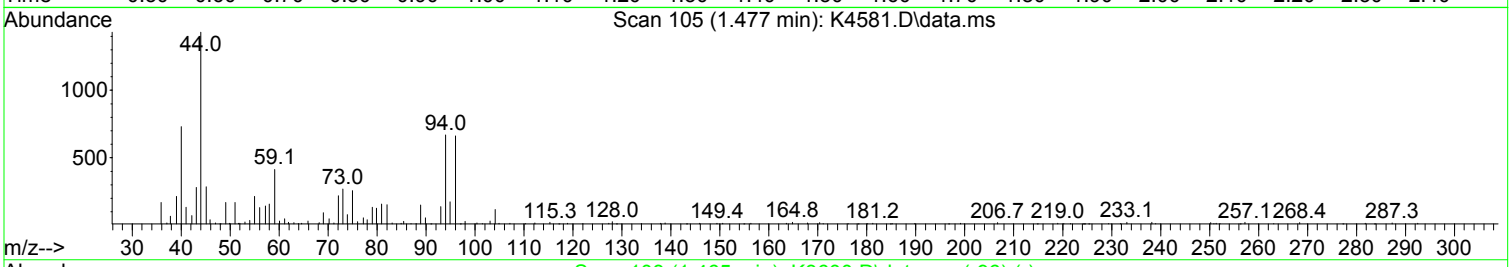
07/31/24

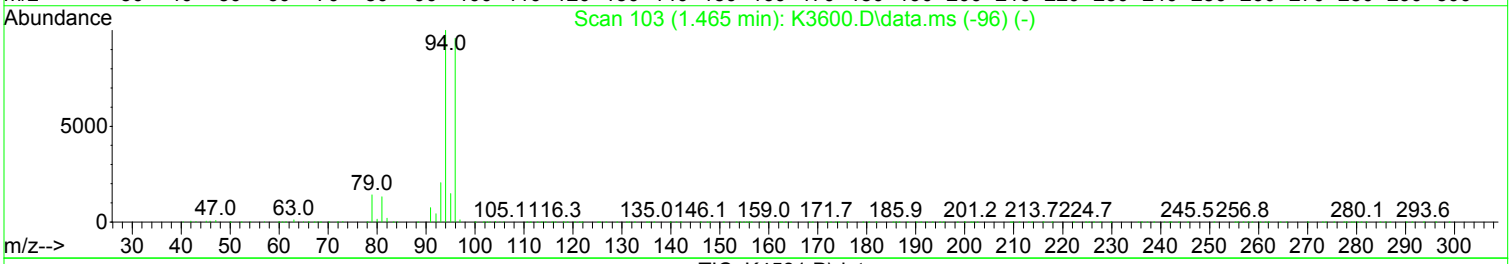
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(6) Bromomethane (P)

1.477min (+ 0.012) 0.69 ug/L m

response 1361

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	95.80	98.81
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

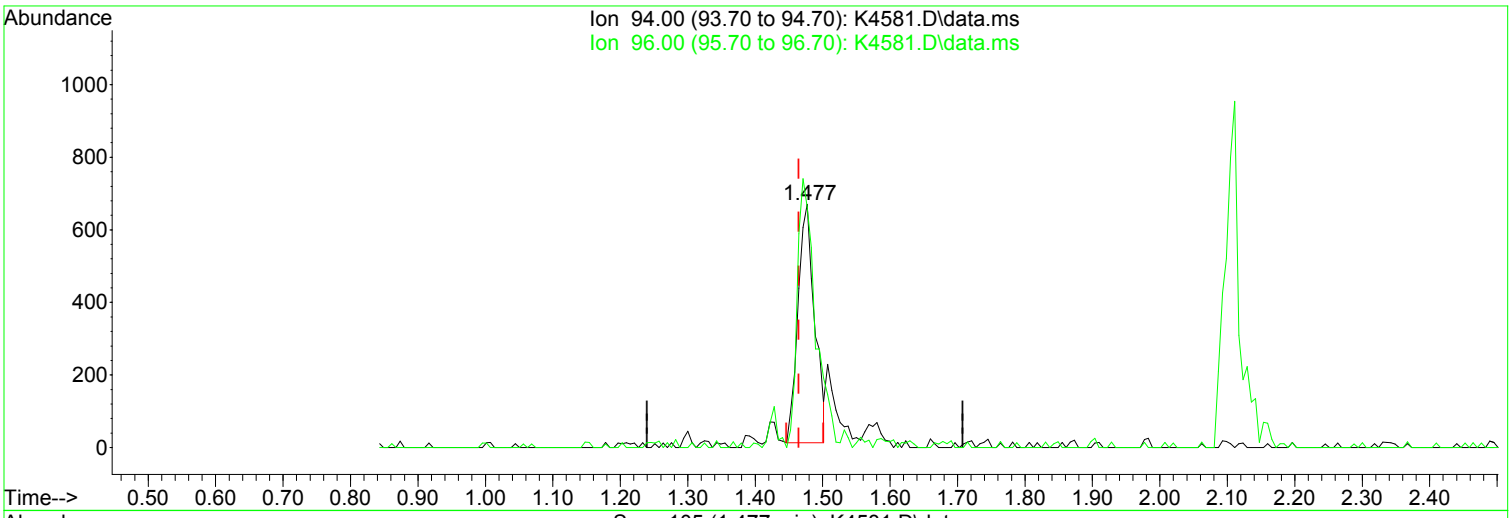
Split Peak.

07/31/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



TIC: K4581.D\data.ms

(6) Bromomethane (P)

1.477min (+ 0.012) 0.57 ug/L

response 1124

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	95.80	98.81
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

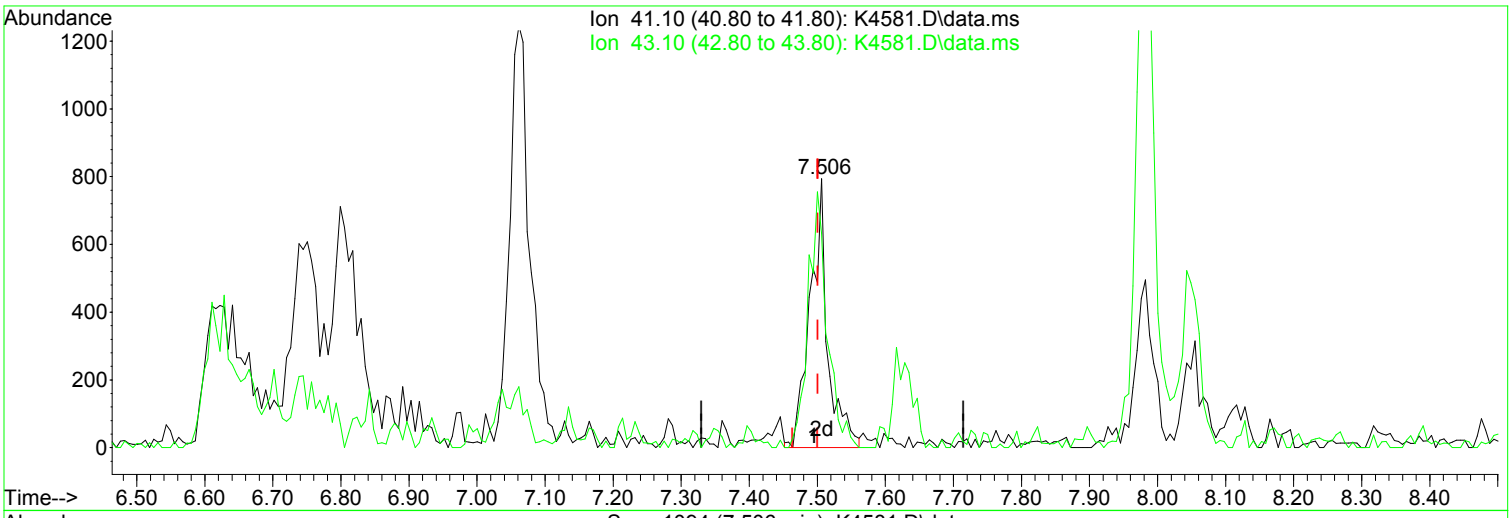
Before

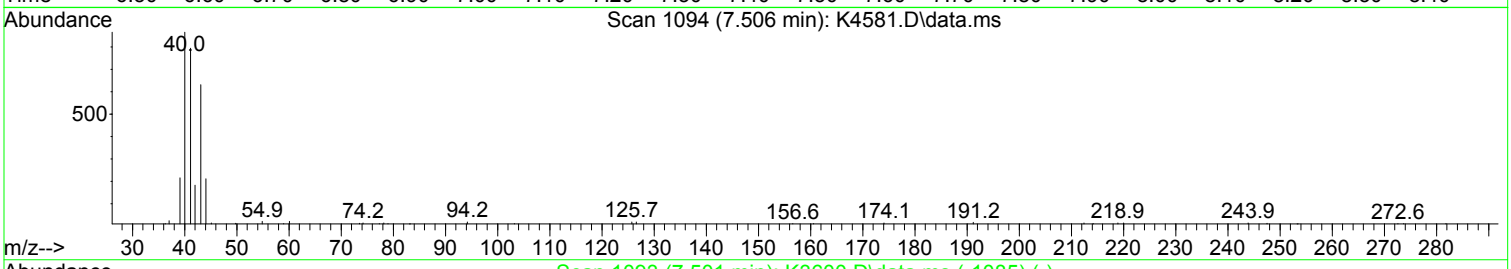
07/31/24

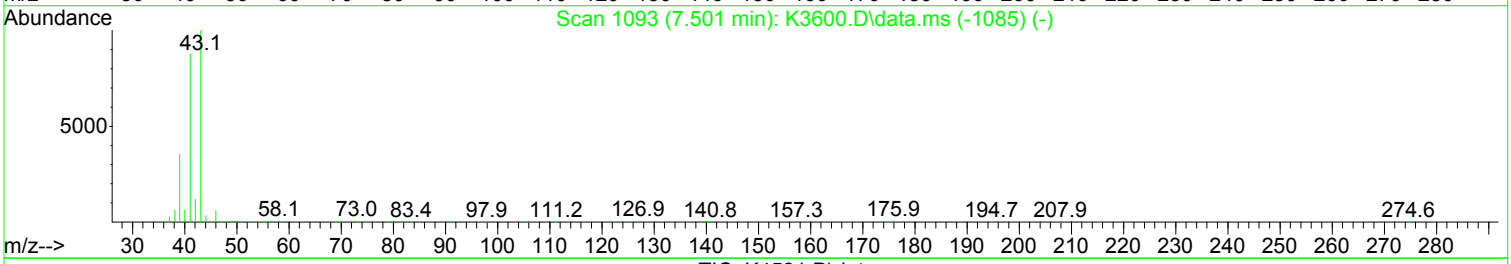
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(60) 2-Nitropropane

7.506min (+ 0.006) 0.85 ug/L m

response 1416

Ion	Exp%	Act%
41.10	100.00	100.00
43.10	114.10	79.47#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

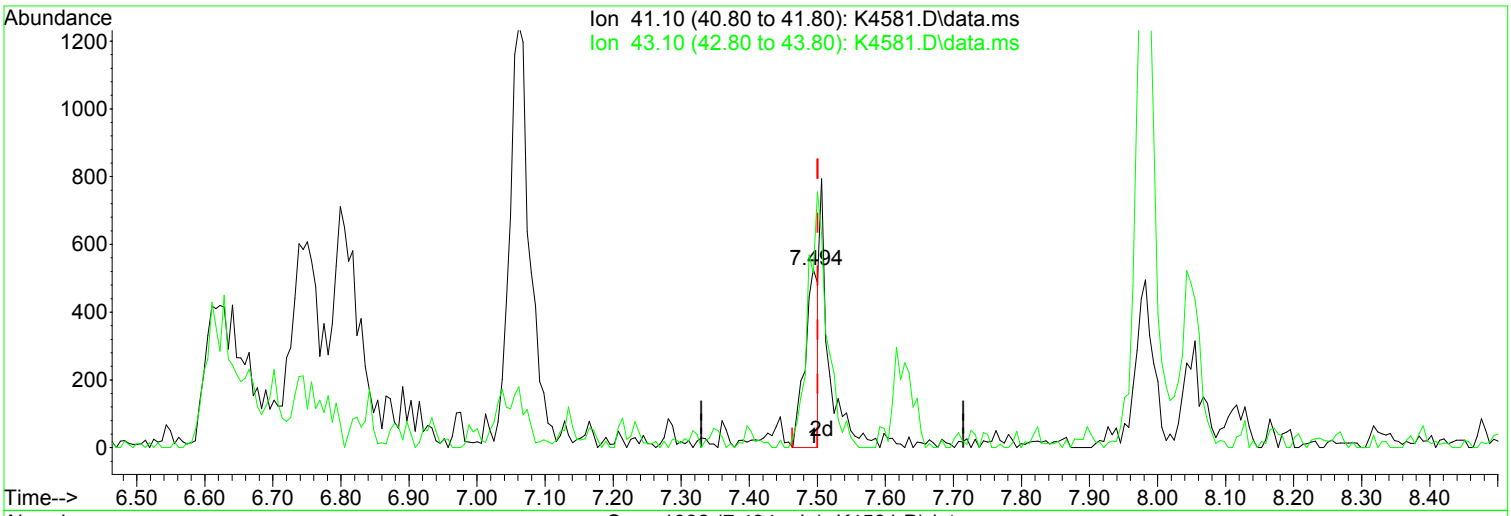
Split Peak.

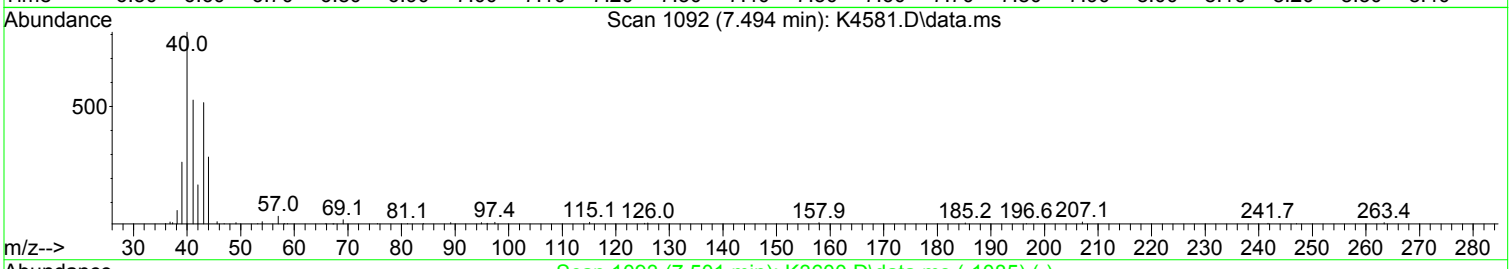
07/31/24

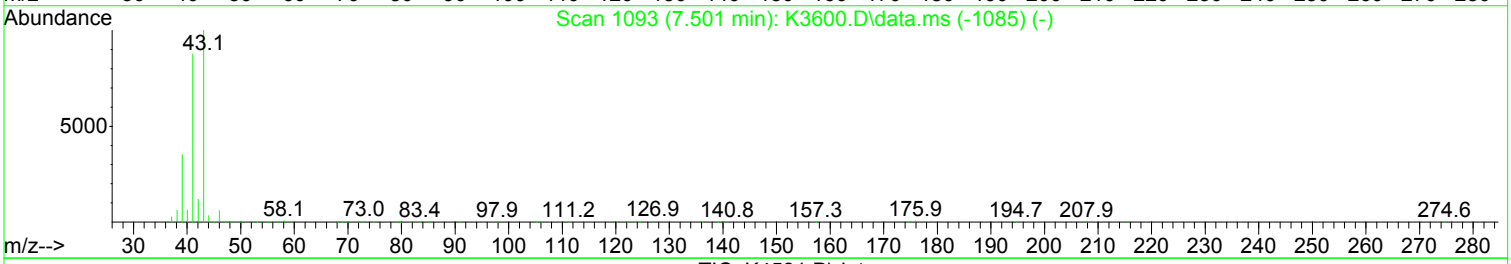
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(60) 2-Nitropropane

7.494min (-0.006) 0.44 ug/L

response 726

Ion	Exp%	Act%
41.10	100.00	100.00
43.10	114.10	97.91
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

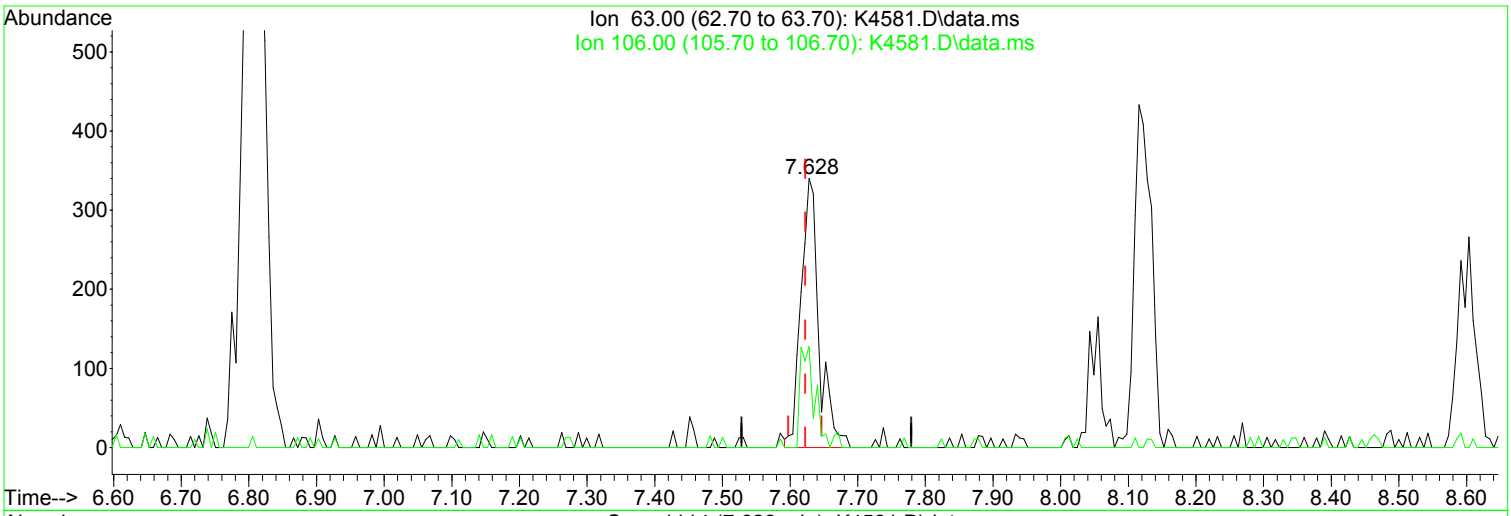
Before

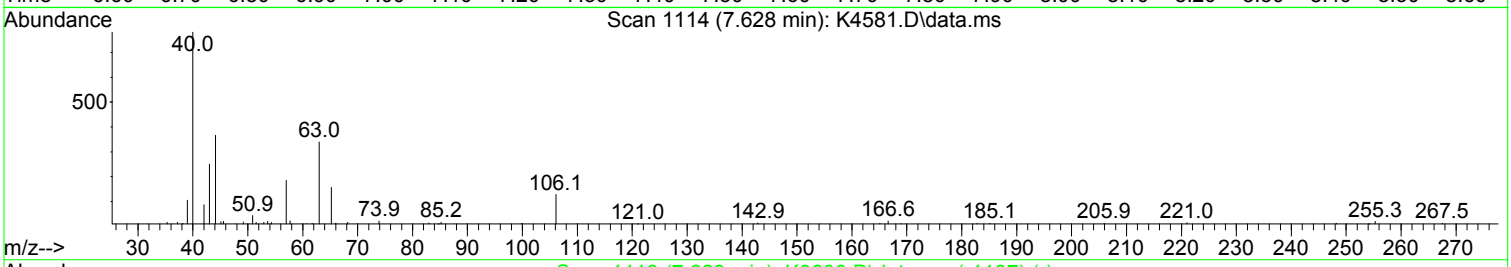
07/31/24

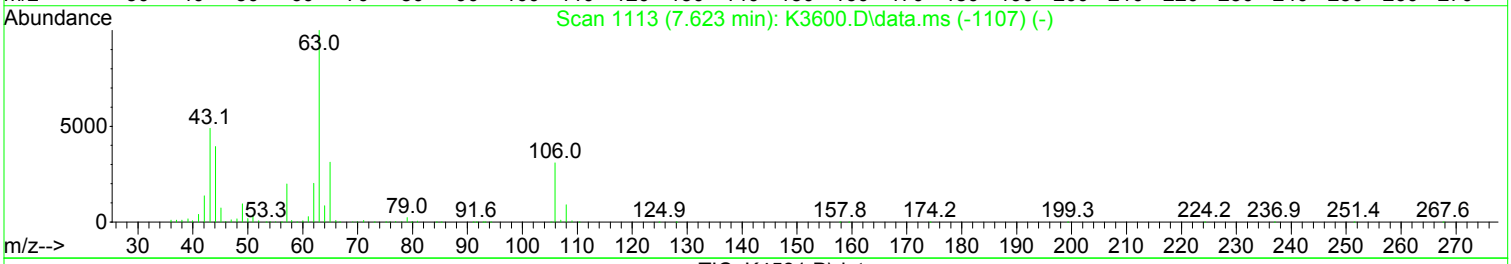
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(61) 2-Chloroethylvinyl Ether

7.628min (+ 0.006) 0.50 ug/L m

response 632

Ion	Exp%	Act%
63.00	100.00	100.00
106.00	30.70	37.65
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

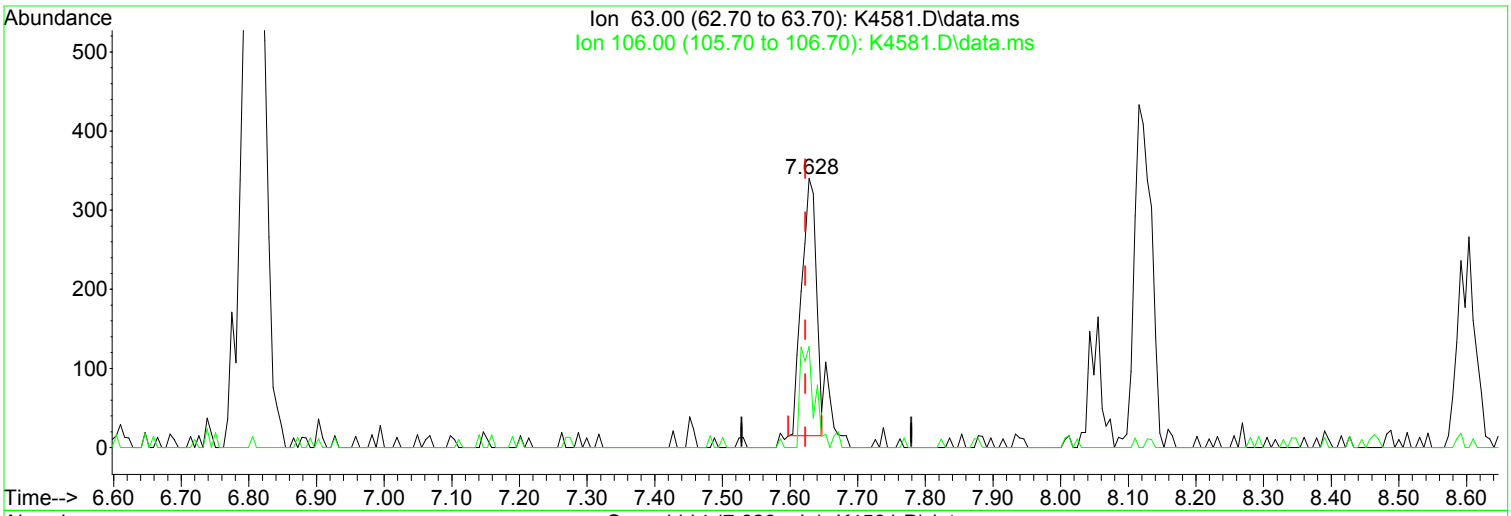
Poor integration.

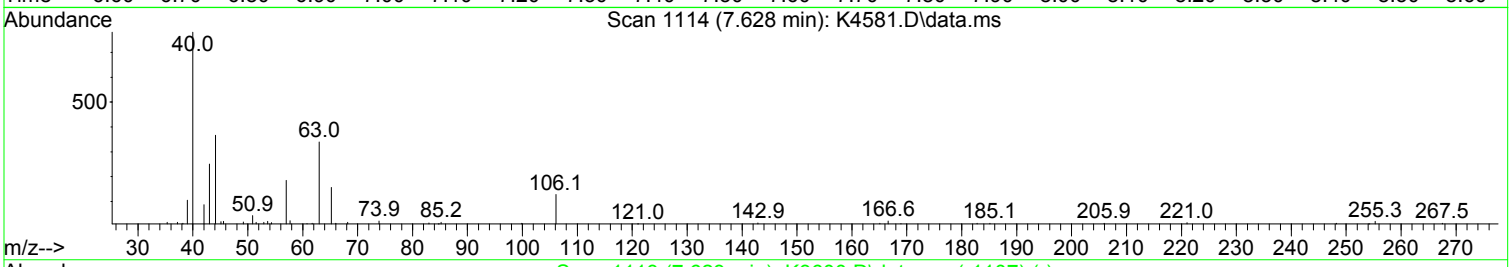
07/31/24

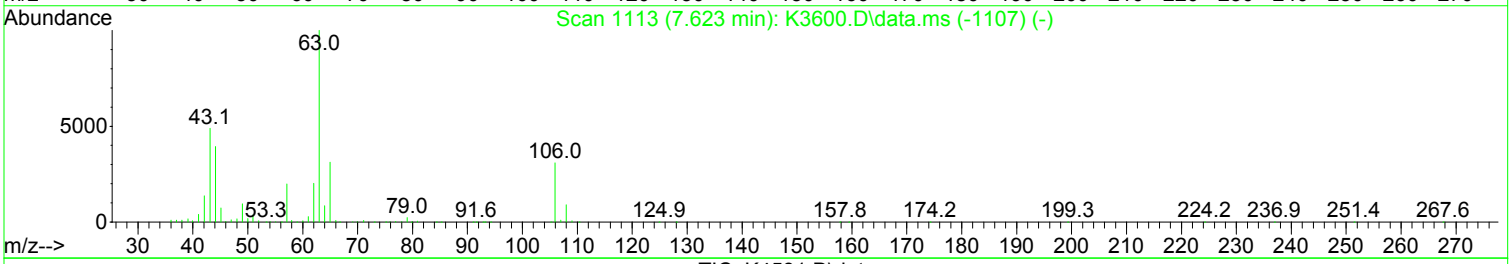
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(61) 2-Chloroethylvinyl Ether

7.628min (+ 0.006) 0.39 ug/L

response 494

Ion	Exp%	Act%
63.00	100.00	100.00
106.00	30.70	37.65
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

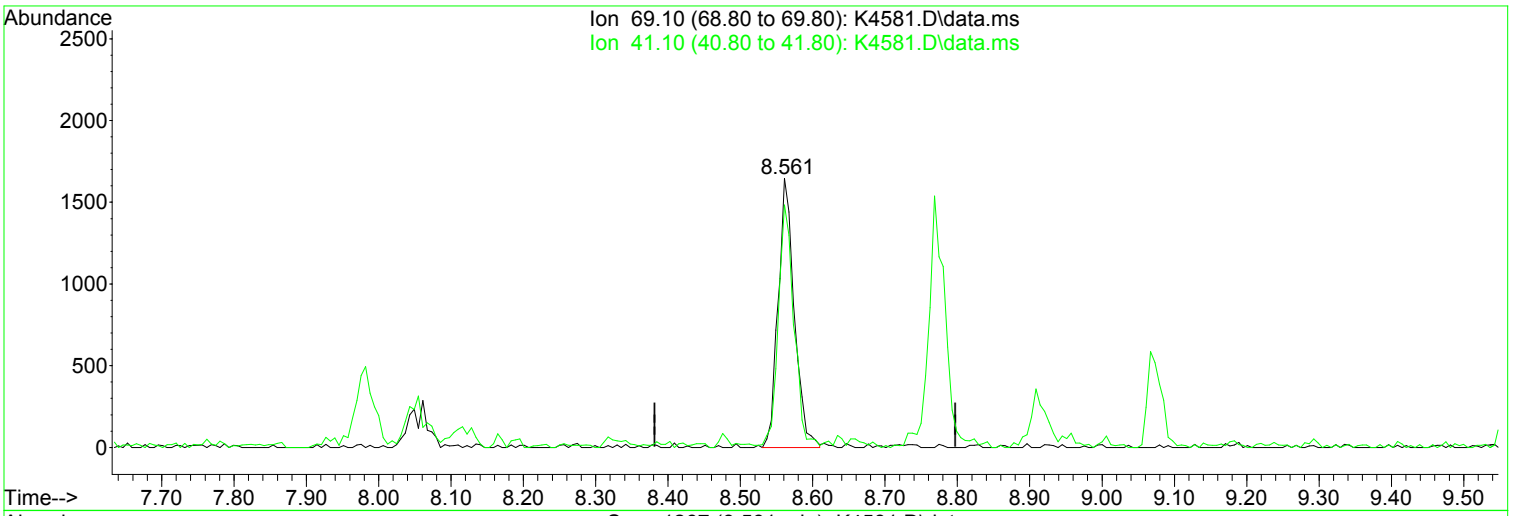
Before

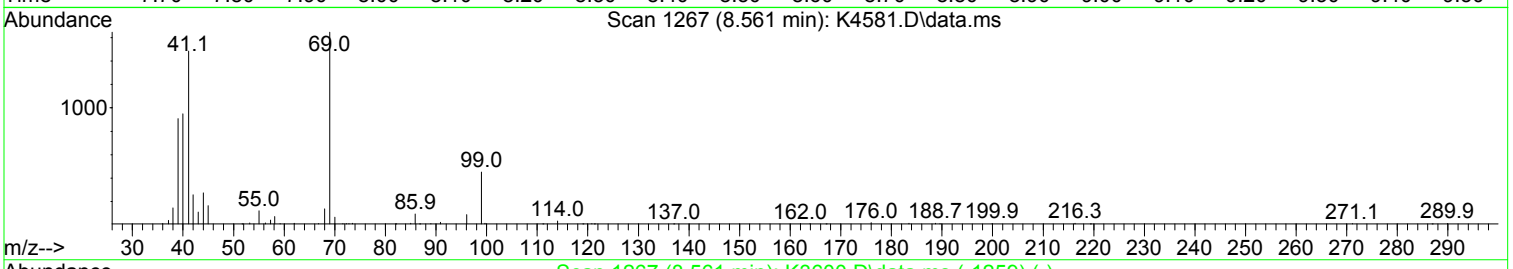
07/31/24

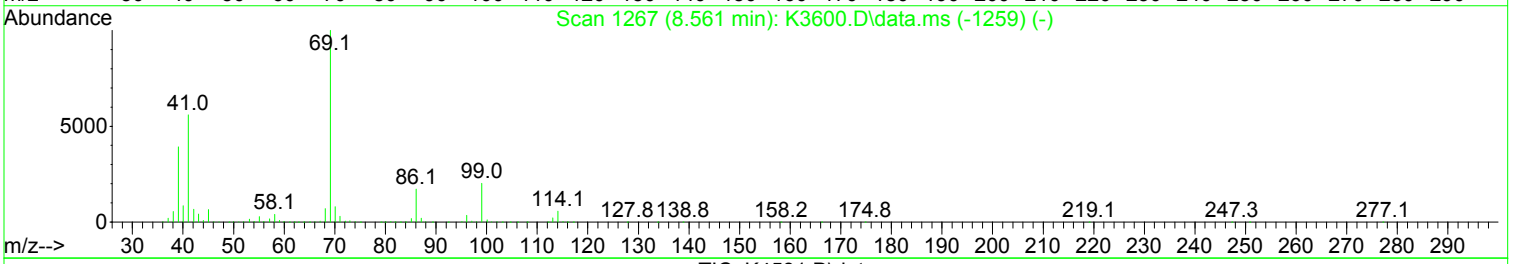
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(67) Ethyl Methacrylate

8.561min (-0.000) 0.45 ug/L m

response 2559

Ion	Exp%	Act%
69.10	100.00	100.00
41.10	55.90	90.15#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

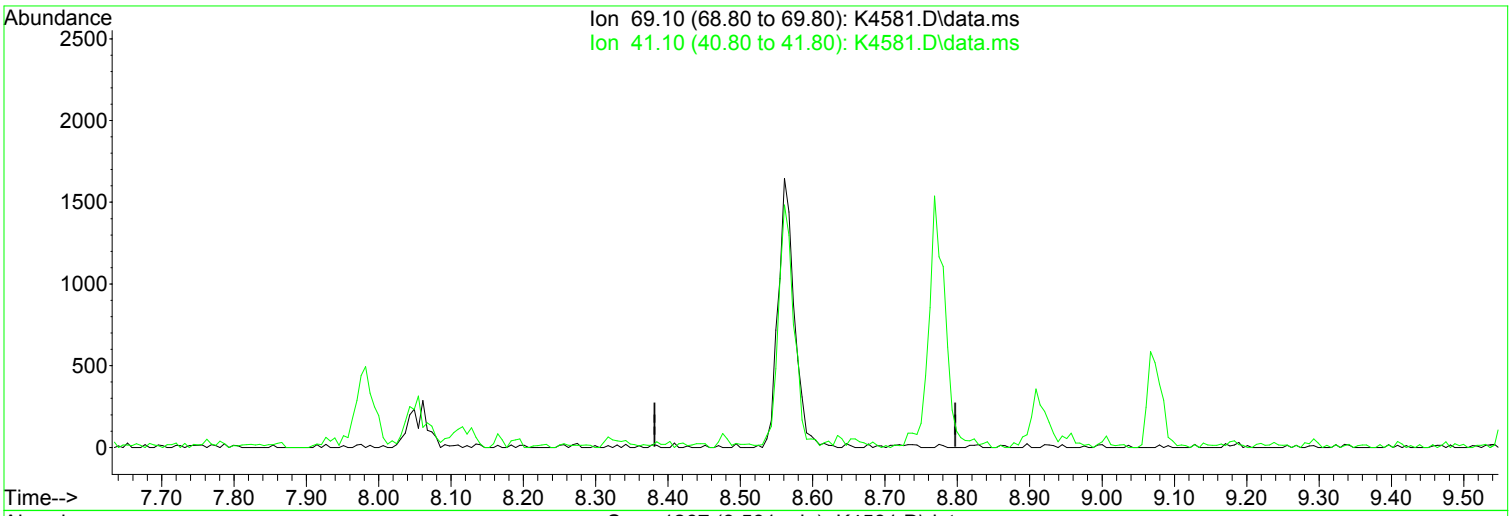
Peak not found.

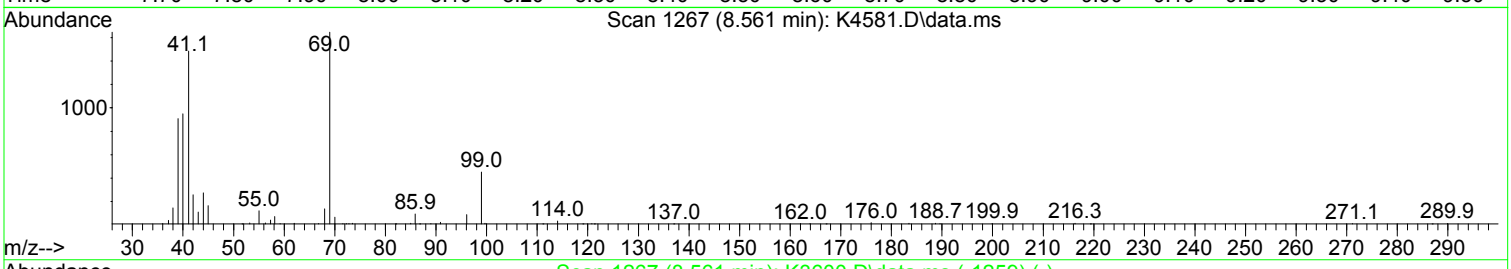
07/31/24

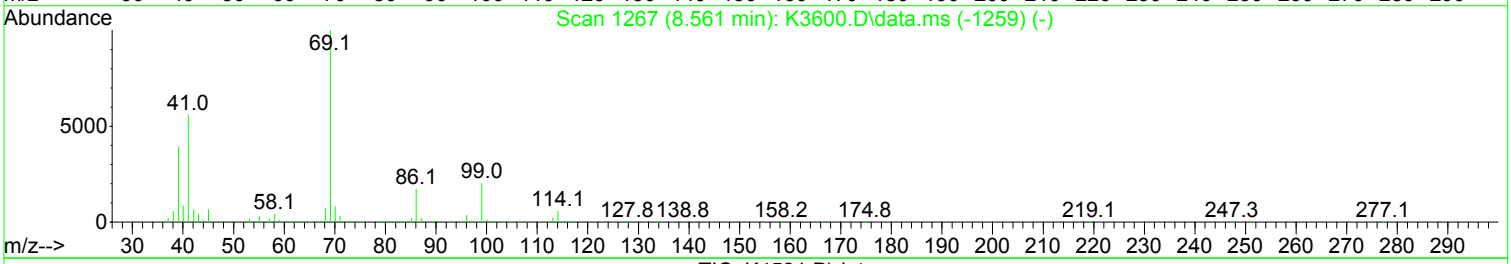
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(67) Ethyl Methacrylate

8.561min (-8.561) 0.00 ug/L

response 0

Ion	Exp%	Act%
69.10	100.00	0.00
41.10	55.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

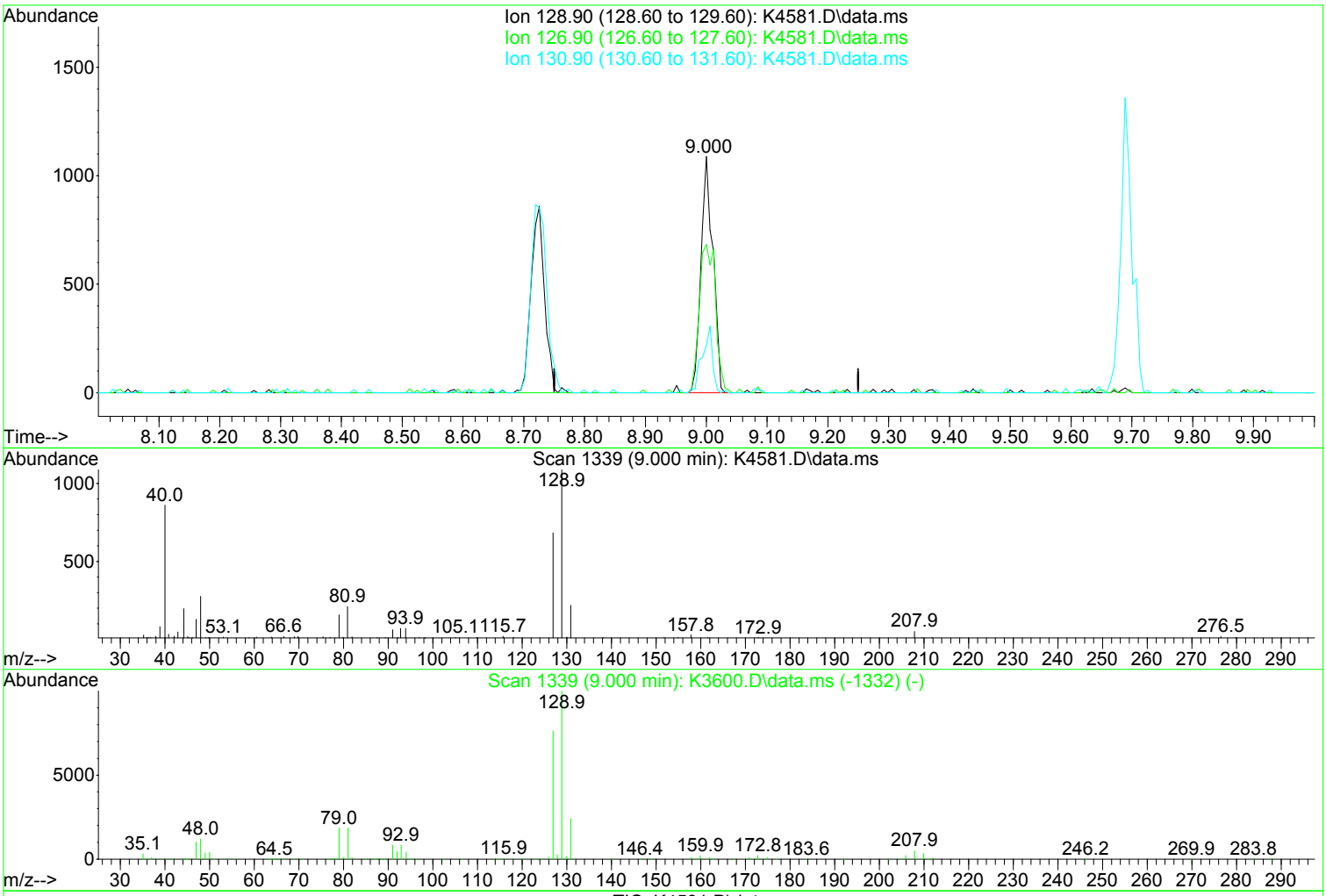
Before

07/31/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



TIC: K4581.D\data.ms

(74) Dibromochloromethane (P)

9.000min (-0.000) 0.40 ug/L m

response 1486

Ion	Exp%	Act%
128.90	100.00	100.00
126.90	76.30	62.78
130.90	24.20	20.04
0.00	0.00	0.00

Manual Integration:

After

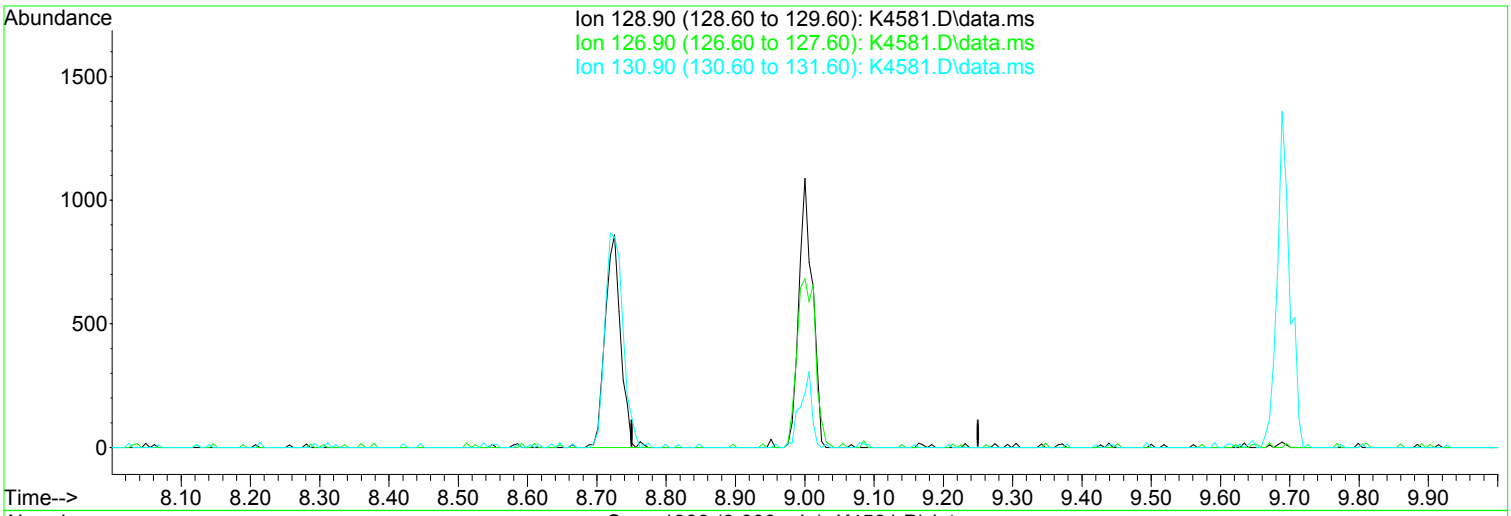
Peak not found.

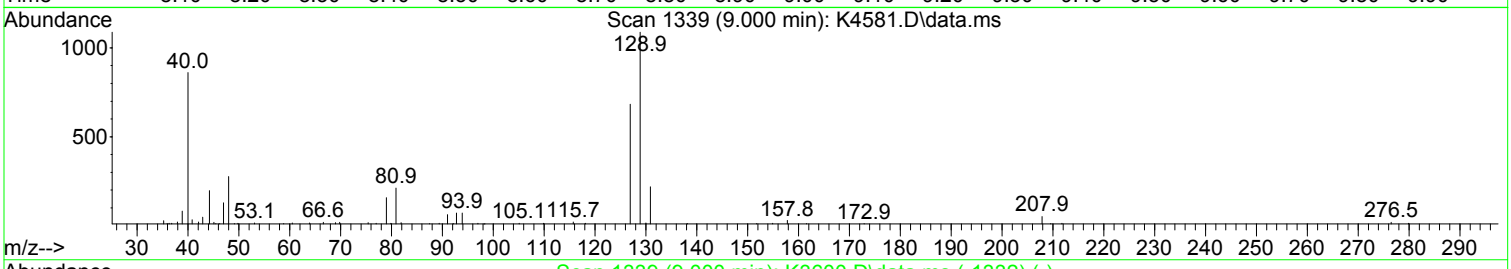
07/31/24

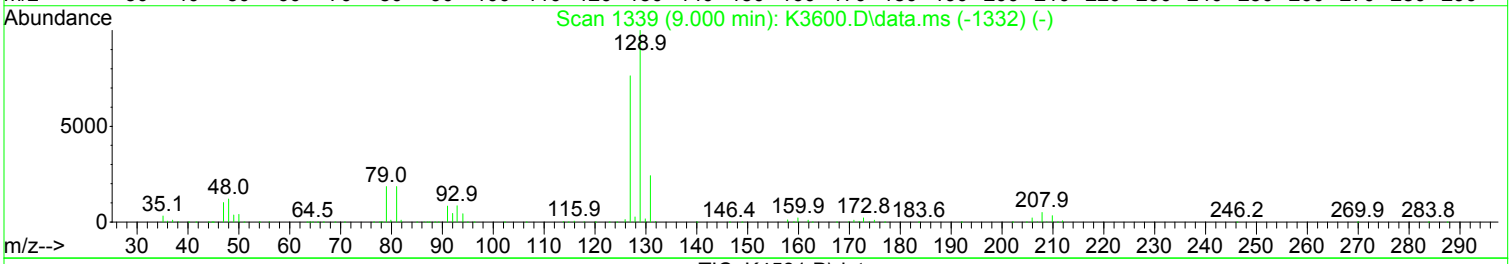
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(74) Dibromochloromethane (P)

9.000min (-9.000) 0.00 ug/L

response 0

Ion	Exp%	Act%
128.90	100.00	0.00
126.90	76.30	0.00#
130.90	24.20	0.00#
0.00	0.00	0.00

Manual Integration:

Before

07/31/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.995	168	364008	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.171	114	609855	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.573	117	527319	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	230648	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.824	113	38697	10.17	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 20.34%#			
47) surr1,1,2-dichloroetha...	5.415	65	57248	11.01	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 22.02%#			
64) SURR3,Toluene-d8	8.049	98	152784	10.94	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 21.88%#			
69) SURR2,BFB	10.664	95	59829	10.90	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 21.80%#			
Target Compounds						Qvalue
2) Chlorodifluoromethane	1.081	51	2746	0.554	ug/L	90
3) Dichlorodifluoromethane	1.075	85	2286m	0.538	ug/L	
4) Chloromethane	1.203	50	2831	0.593	ug/L	68
5) Vinyl Chloride	1.258	62	2742	0.556	ug/L	97
6) Bromomethane	1.477	94	1361m	0.693	ug/L	
7) Chloroethane	1.538	64	1691	0.541	ug/L	99
8) Freon 21	1.678	67	3350	0.504	ug/L	93
9) Trichlorofluoromethane	1.715	101	2831	0.517	ug/L	86
10) Diethyl Ether	1.934	59	1708	0.433	ug/L #	69
11) Freon 123a	1.940	67	1926	0.493	ug/L #	68
12) Freon 123	1.983	83	2363	0.530	ug/L	83
13) Acrolein	2.032	56	1312	2.282	ug/L	92
14) 1,1-Diclethene	2.111	96	1491	0.483	ug/L #	81
15) Freon 113	2.111	101	1594m	0.502	ug/L	
16) Acetone	2.154	43	2809	0.964	ug/L	78
17) 2-Propanol	2.288	45	4984	8.674	ug/L	93
18) Iodomethane	2.221	142	2216	0.461	ug/L	86
19) Carbon Disulfide	2.276	76	3494	0.460	ug/L	94
20) Acetonitrile/Allyl Chl...	2.410	41	4017	2.620	ug/L #	72
21) Methyl Acetate	2.434	43	2618	0.515	ug/L	94
22) Methylene Chloride	2.519	84	4471	0.980	ug/L #	73
23) TBA	2.654	59	9673	9.083	ug/L	93
24) Acrylonitrile	2.763	53	6258	2.353	ug/L	89
25) Methyl-t-Butyl Ether	2.806	73	5907m	0.505	ug/L	
26) trans-1,2-Dichloroethene	2.782	96	1630	0.482	ug/L #	80
27) 1,1-Diclethane	3.251	63	3436	0.492	ug/L	90
28) Vinyl Acetate	3.342	86	266m	0.390	ug/L	
29) DIPE	3.367	45	6297m	0.511	ug/L	
30) 2-Chloro-1,3-Butadiene	3.355	53	3573	0.506	ug/L	78
31) ETBE	3.842	59	6267m	0.480	ug/L	
32) 2,2-Dichloropropane	4.001	77	1844m	0.420	ug/L	
33) cis-1,2-Dichloroethene	4.007	96	1983	0.511	ug/L #	70
34) 2-Butanone	4.080	43	1603	0.461	ug/L	74
35) Propionitrile	4.166	54	2836	2.388	ug/L	97
36) Bromochloromethane	4.379	130	1229m	0.478	ug/L	
37) Methacrylonitrile	4.397	67	981m	0.443	ug/L	
38) Tetrahydrofuran	4.507	42	1111	0.501	ug/L	78
39) Chloroform	4.556	83	3699	0.570	ug/L	96
40) 1,1,1-Trichloroethane	4.824	97	2649m	0.509	ug/L	

1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) TAME	5.769	73	4699	0.467	ug/L		85
43) Cyclohexane	4.915	41	1910m	0.532	ug/L		
45) Carbontetrachloride	5.135	117	2831m	0.584	ug/L		
46) 1,1-Dichloropropene	5.141	75	2444	0.546	ug/L		84
48) Benzene	5.507	78	6680	0.515	ug/L		85
49) 1,2-Dichloroethane	5.549	62	3486	0.536	ug/L		91
50) Iso-Butyl Alcohol	5.574	43	1526	4.873	ug/L		85
51) n-Heptane	6.019	43	2741	0.561	ug/L	#	65
52) 1-Butanol	6.616	56	2663m	12.976	ug/L		
53) Trichloroethene	6.507	130	1972	0.510	ug/L	#	84
54) Methylcyclohexane	6.750	55	2475	0.454	ug/L	#	75
55) 1,2-Diclpropane	6.805	63	1878	0.476	ug/L		99
56) Dibromomethane	6.958	93	1277	0.516	ug/L	#	84
57) 1,4-Dioxane	7.049	88	921m	11.029	ug/L		
58) Methyl Methacrylate	7.061	69	1609	0.488	ug/L	#	69
59) Bromodichloromethane	7.195	83	2300	0.494	ug/L		93
60) 2-Nitropropane	7.506	41	1416m	0.852	ug/L		
61) 2-Chloroethylvinyl Ether	7.628	63	632m	0.496	ug/L		
62) cis-1,3-Dichloropropene	7.756	75	2299	0.434	ug/L		94
63) 4-Methyl-2-pentanone	7.982	43	2959	0.478	ug/L		79
65) Toluene	8.122	91	8253	0.557	ug/L		90
66) trans-1,3-Dichloropropene	8.409	75	2475	0.486	ug/L		97
67) Ethyl Methacrylate	8.561	69	2559m	0.449	ug/L		
68) 1,1,2-Trichloroethane	8.604	97	1797	0.504	ug/L		83
71) Tetrachloroethene	8.726	164	1384	0.532	ug/L		92
72) 2-Hexanone	8.915	43	1988	0.428	ug/L		87
73) 1,3-Dichloropropane	8.768	76	3018	0.530	ug/L	#	71
74) Dibromochloromethane	9.000	129	1486m	0.405	ug/L		
75) N-Butyl Acetate	9.073	43	4411	0.495	ug/L		85
76) 1,2-Dibromoethane	9.098	107	1783	0.474	ug/L		91
77) 3-Chlorobenzotrifluoride	9.628	180	2228	0.520	ug/L	#	86
78) Chlorobenzene	9.597	112	5799	0.587	ug/L		91
79) 4-Chlorobenzotrifluoride	9.689	180	2061	0.519	ug/L		92
80) 1,1,1,2-Tetrachloroethane	9.689	131	1753	0.492	ug/L		89
81) Ethylbenzene	9.725	106	2505	0.504	ug/L		92
82) (m+p)Xylene	9.841	106	6326	1.034	ug/L	#	82
83) o-Xylene	10.201	106	3417	0.561	ug/L	#	70
84) Styrene	10.213	104	4897	0.478	ug/L		94
85) Bromoform	10.366	173	747	0.360	ug/L		84
86) 2-Chlorobenzotrifluoride	10.457	180	2327	0.536	ug/L		93
87) Isopropylbenzene	10.542	105	7868	0.504	ug/L		96
88) Cyclohexanone	10.609	55	10096	8.751	ug/L		92
89) trans-1,4-Dichloro-2-B...	10.859	53	961	0.436	ug/L	#	64
91) 1,1,2,2-Tetrachloroethane	10.811	83	2543	0.527	ug/L		92
92) Bromobenzene	10.780	156	2096	0.570	ug/L		95
93) 1,2,3-Trichloropropane	10.835	110	822	0.470	ug/L		91
94) n-Propylbenzene	10.896	91	8835	0.529	ug/L		97
95) 2-Chlorotoluene	10.957	91	6277	0.597	ug/L		95
96) 3-Chlorotoluene	11.012	91	5875	0.552	ug/L		93
97) 4-Chlorotoluene	11.055	91	6951	0.575	ug/L		92
98) 1,3,5-Trimethylbenzene	11.055	105	6647	0.525	ug/L		96
99) tert-Butylbenzene	11.329	119	5677	0.525	ug/L		94
100) 1,2,4-Trimethylbenzene	11.365	105	6769	0.527	ug/L		95
101) 3,4-Dichlorobenzotrifl...	11.426	214	1580	0.567	ug/L	#	73
102) sec-Butylbenzene	11.512	105	7766	0.513	ug/L		95
103) p-Isopropyltoluene	11.634	119	7162	0.538	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

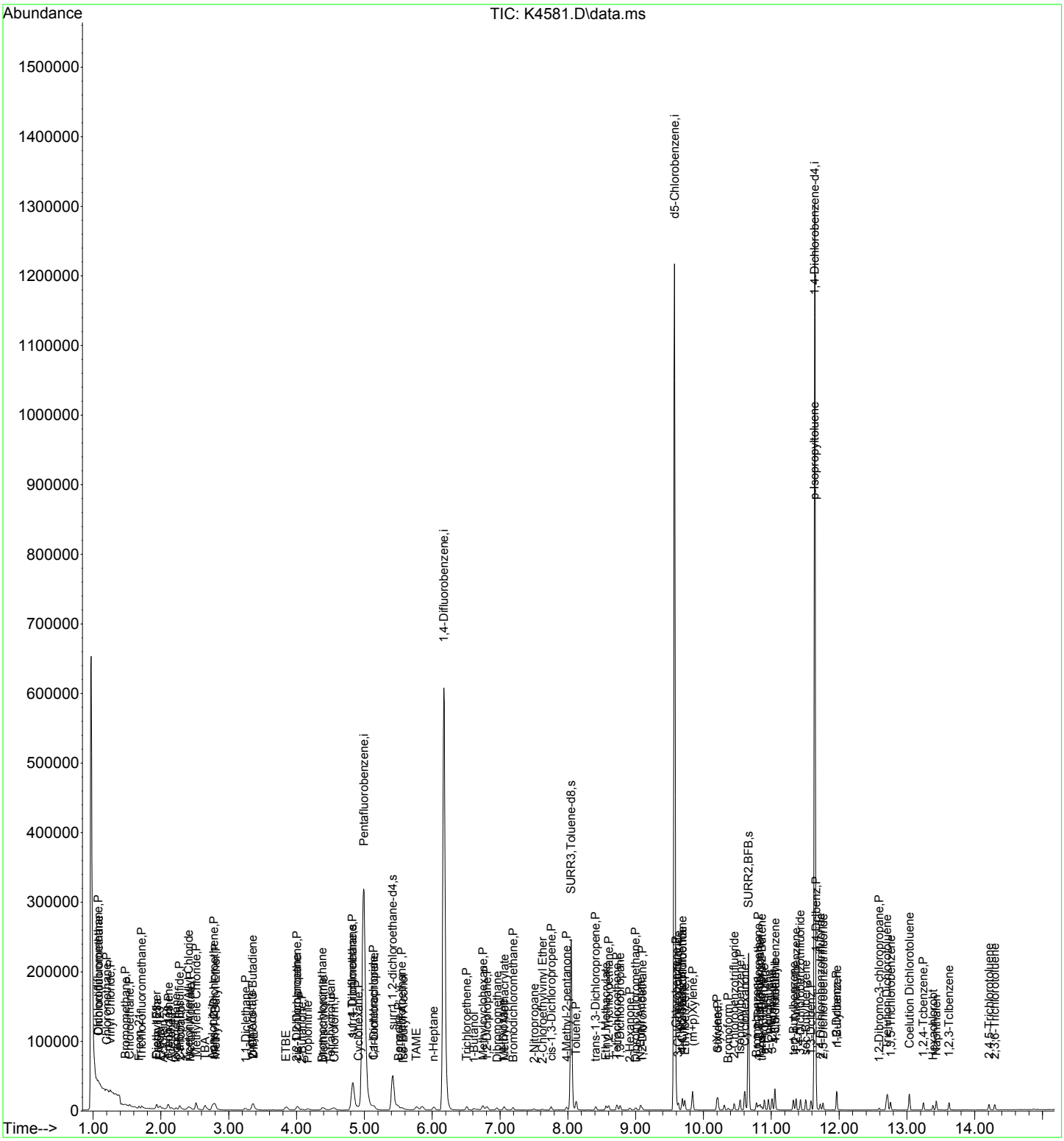
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
104) 1,3-Dclbenz	11.585	146	4015	0.570	ug/L		95
105) 1,4-Dclbenz	11.658	146	4338	0.610	ug/L		93
106) 2,4-Dichlorobenzotrifl...	11.725	214	1462	0.596	ug/L		81
107) 2,5-Dichlorobenzotrifl...	11.768	214	1511	0.552	ug/L		97
108) n-Butylbenzene	11.969	91	6045	0.522	ug/L		98
109) 1,2-Dclbenz	11.963	146	3617	0.520	ug/L		92
110) 1,2-Dibromo-3-chloropr...	12.591	157	368	0.320	ug/L	#	72
111) Trielution Dichlorotol...	12.707	125	10621	1.620	ug/L		87
112) 1,3,5-Trichlorobenzene	12.762	180	2511	0.552	ug/L		94
113) Coelution Dichlorotoluene	13.036	125	7371	1.045	ug/L		92
114) 1,2,4-Tcbenzene	13.243	180	2300	0.522	ug/L		91
115) Hexachlorobt	13.383	225	841	0.518	ug/L		91
116) Naphthalen	13.432	128	7616	0.457	ug/L		99
117) 1,2,3-Tclbenzene	13.621	180	2320	0.534	ug/L		96
118) 2,4,5-Trichlorotoluene	14.212	159	1896	0.548	ug/L		81
119) 2,3,6-Trichlorotoluene	14.298	159	1535	0.479	ug/L		85

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

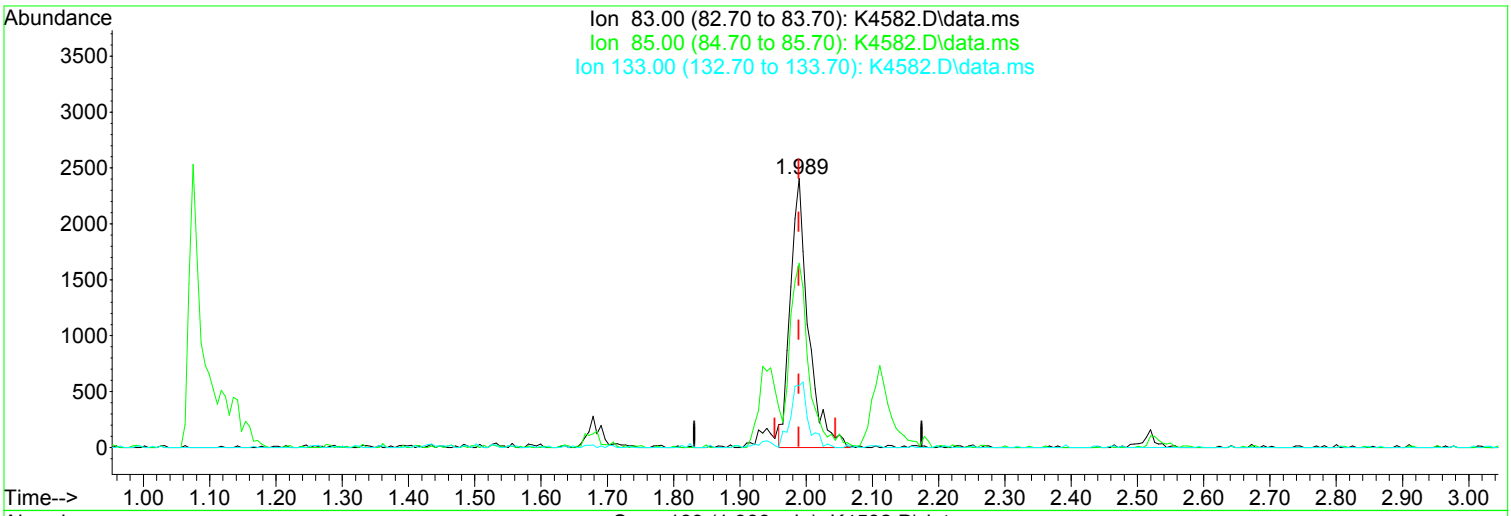
Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

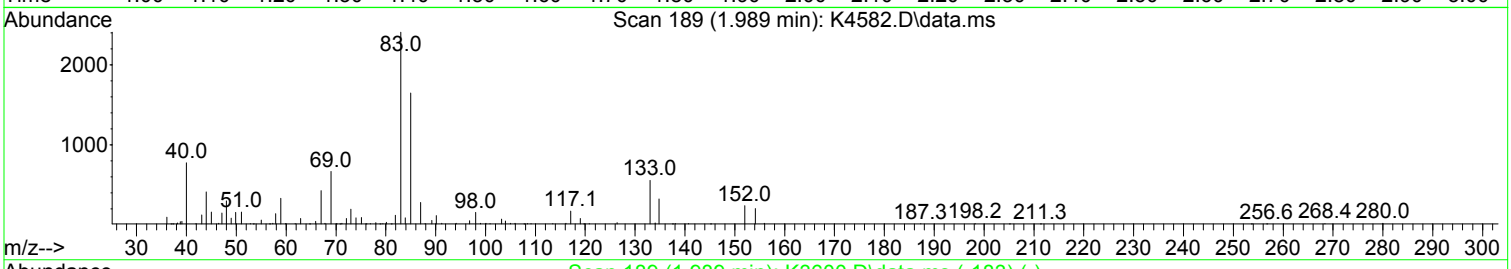


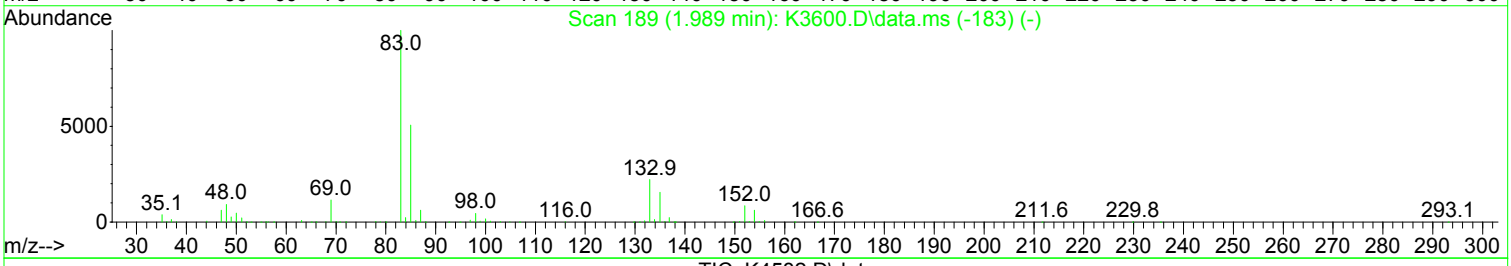
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(12) Freon 123

1.989min (-0.000) 1.03 ug/L m

response 4518

Ion	Exp%	Act%
83.00	100.00	100.00
85.00	67.60	68.50
133.00	23.20	23.11
0.00	0.00	0.00

Manual Integration:

After

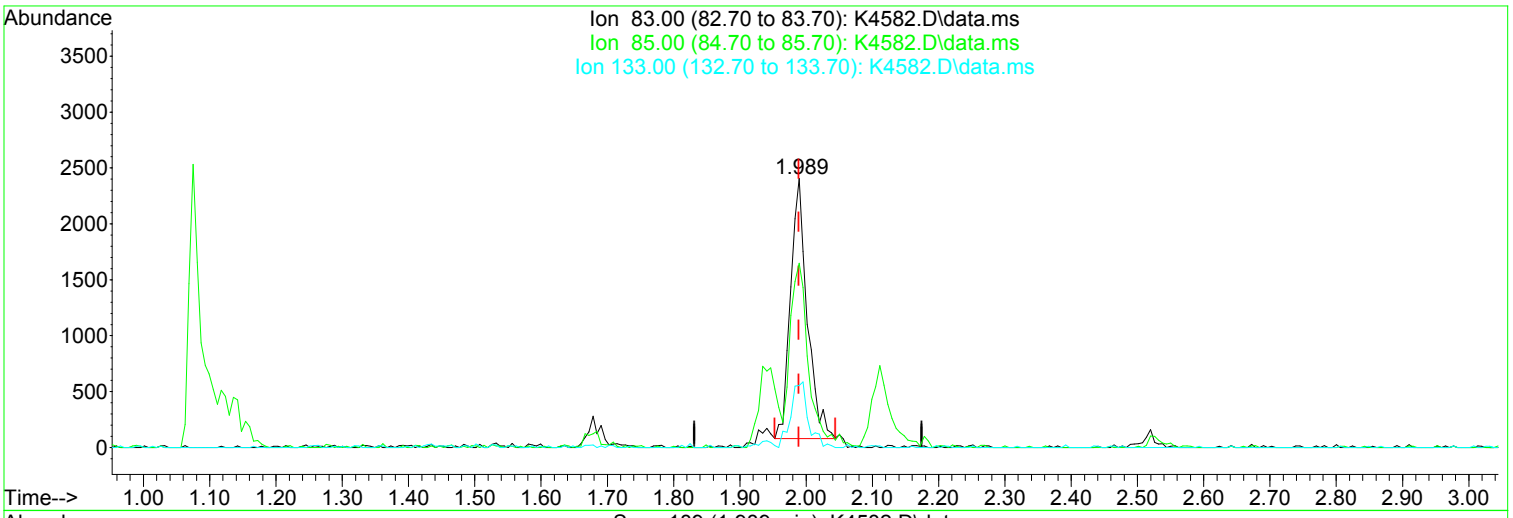
Poor integration.

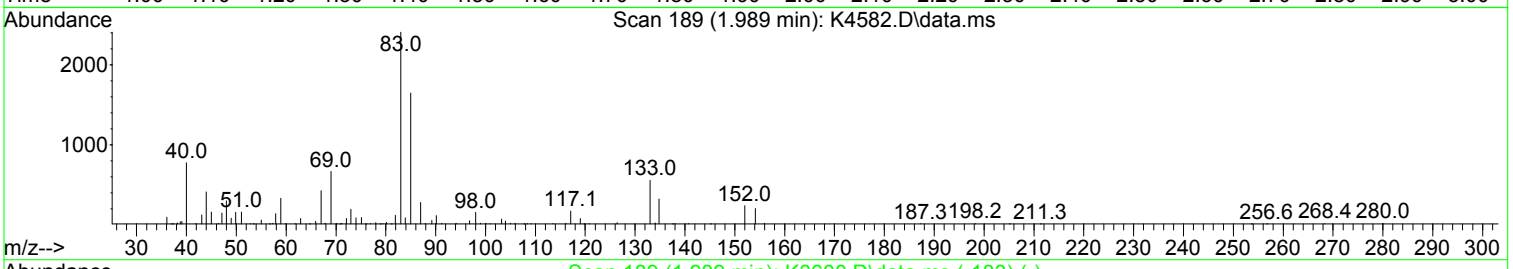
07/31/24

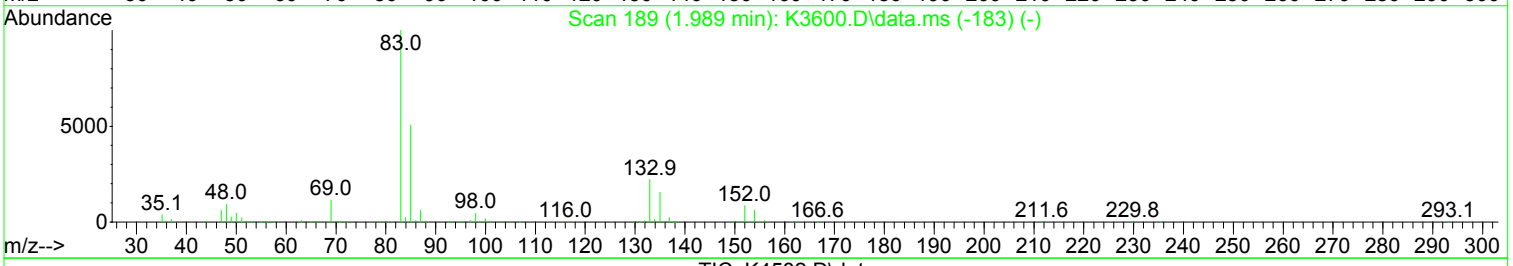
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(12) Freon 123

1.989min (-0.000) 0.93 ug/L

response 4075

Ion	Exp%	Act%
83.00	100.00	100.00
85.00	67.60	68.50
133.00	23.20	23.11
0.00	0.00	0.00

Manual Integration:

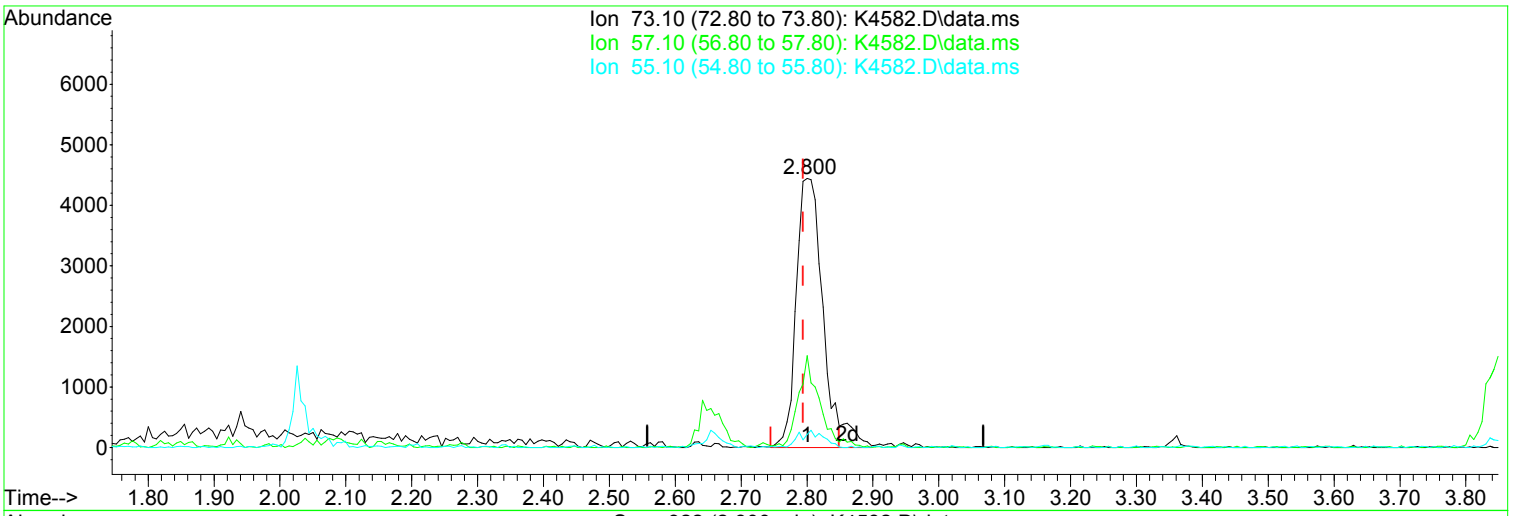
Before

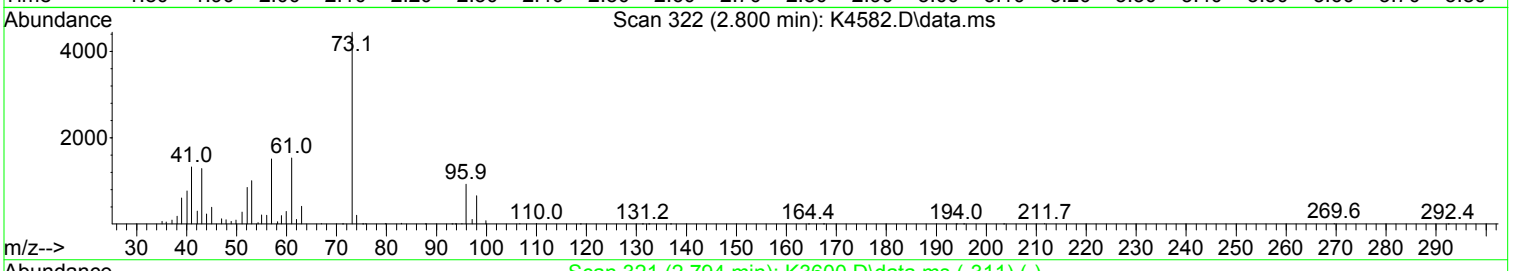
07/31/24

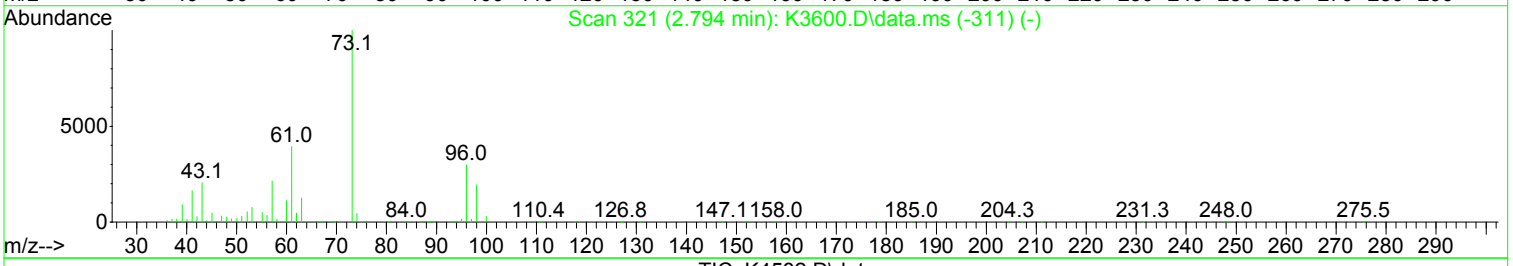
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(25) Methyl-t-Butyl Ether (P)

2.800min (+ 0.006) 1.10 ug/L m

response 12675

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	21.60	34.11
55.10	5.10	4.86
0.00	0.00	0.00

Manual Integration:

After

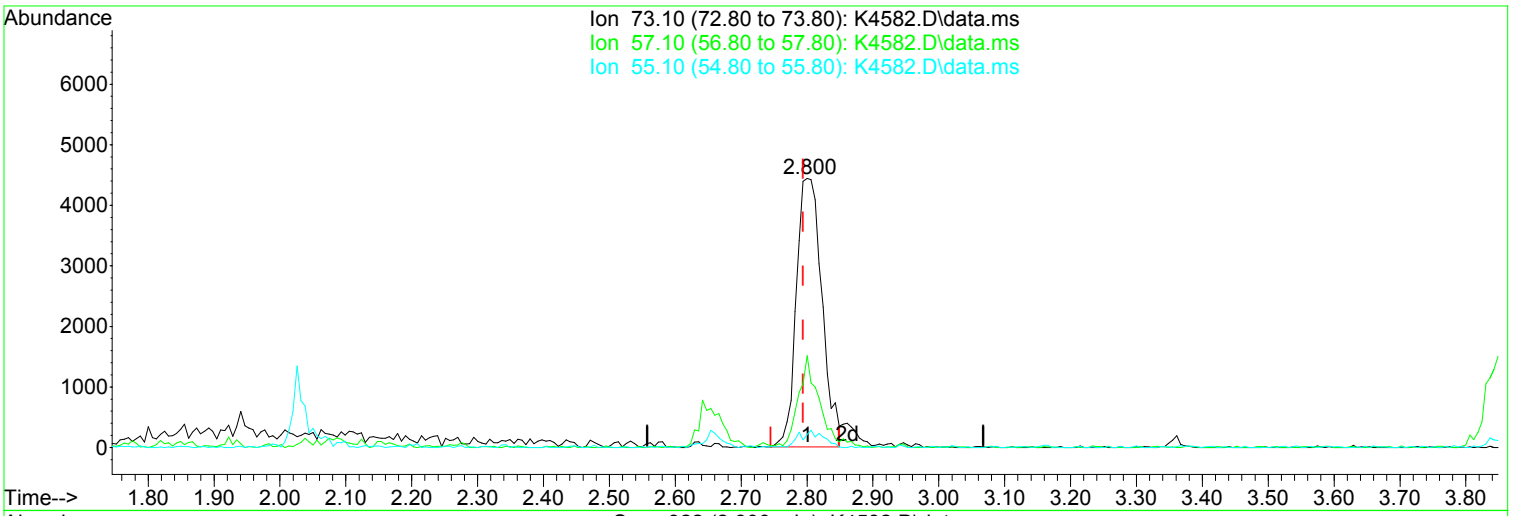
Poor integration.

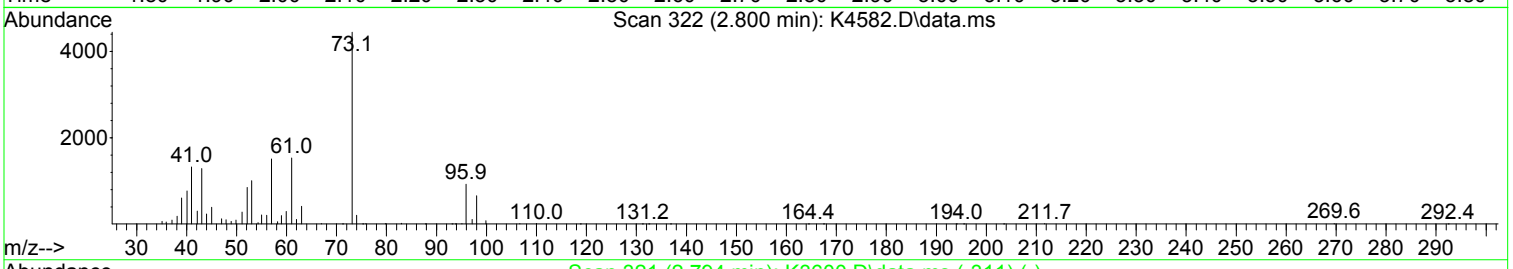
07/31/24

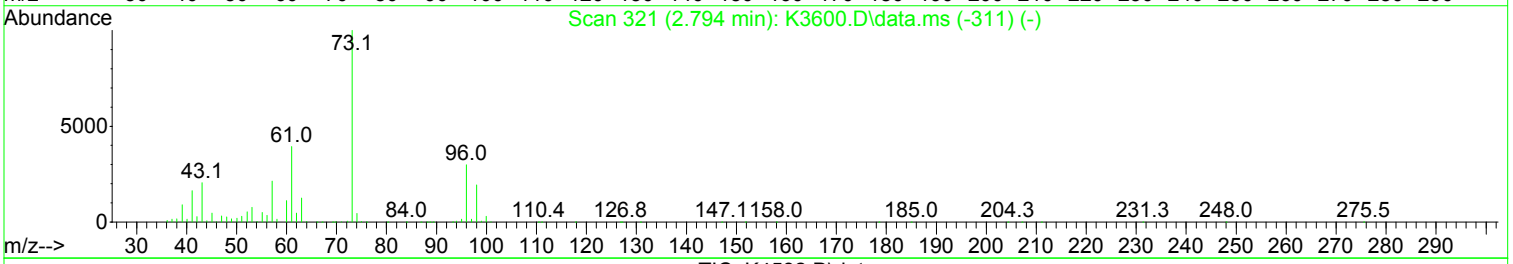
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(25) Methyl-t-Butyl Ether (P)

2.800min (+ 0.006) 1.04 ug/L

response 11956

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	21.60	34.11
55.10	5.10	4.86
0.00	0.00	0.00

Manual Integration:

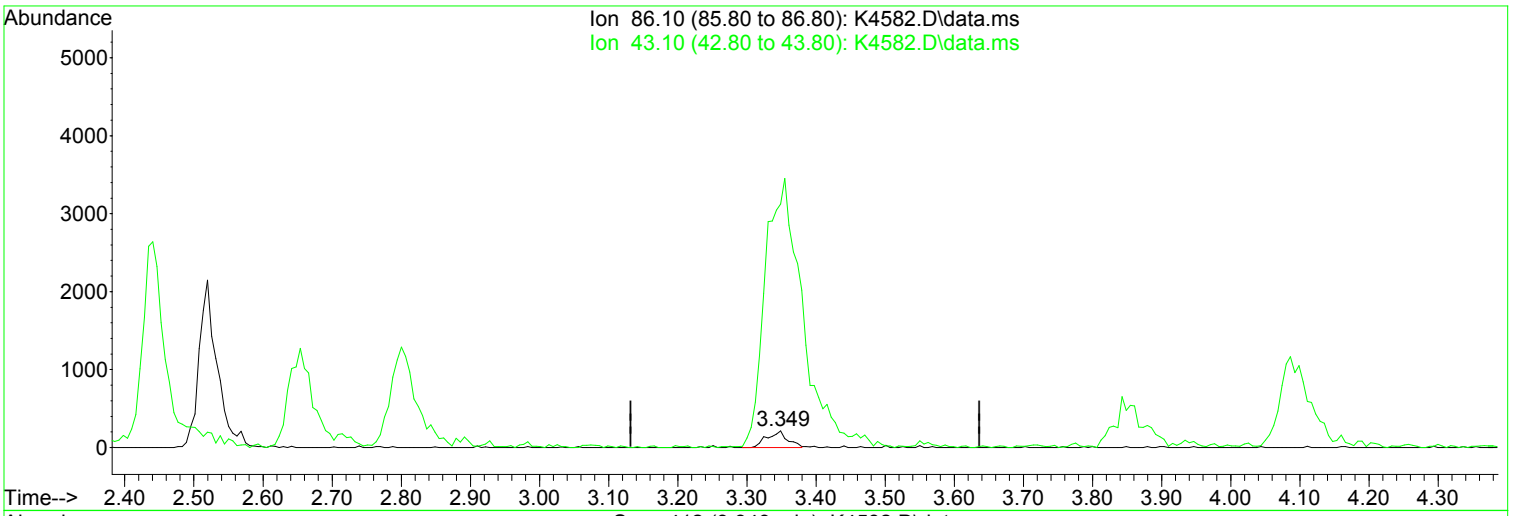
Before

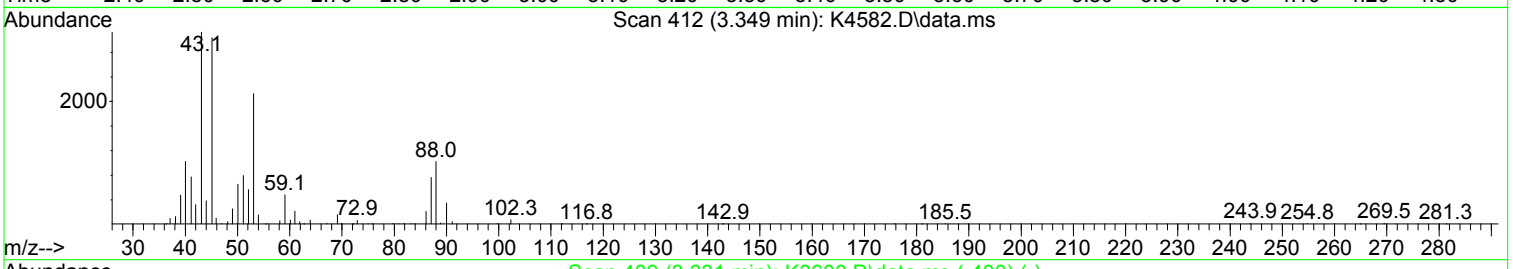
07/31/24

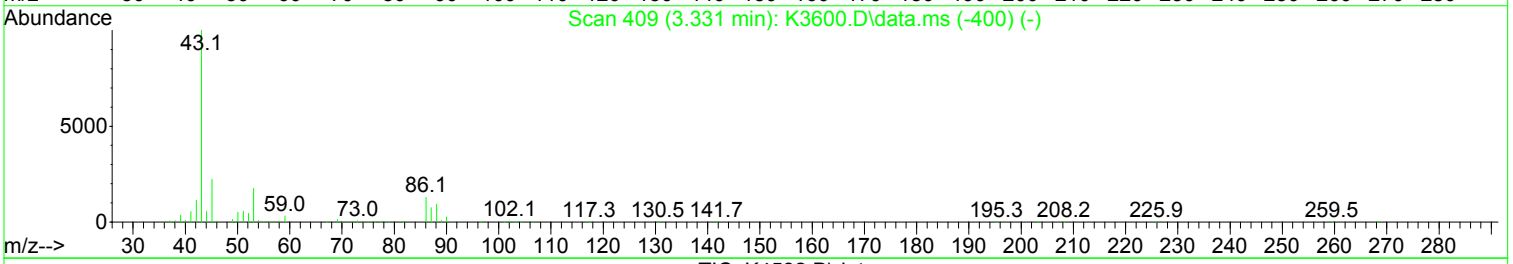
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(28) Vinyl Acetate

3.349min (+ 0.018) 0.65 ug/L m

response 439

Ion	Exp%	Act%
86.10	100.00	100.00
43.10	778.10	1467.61#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

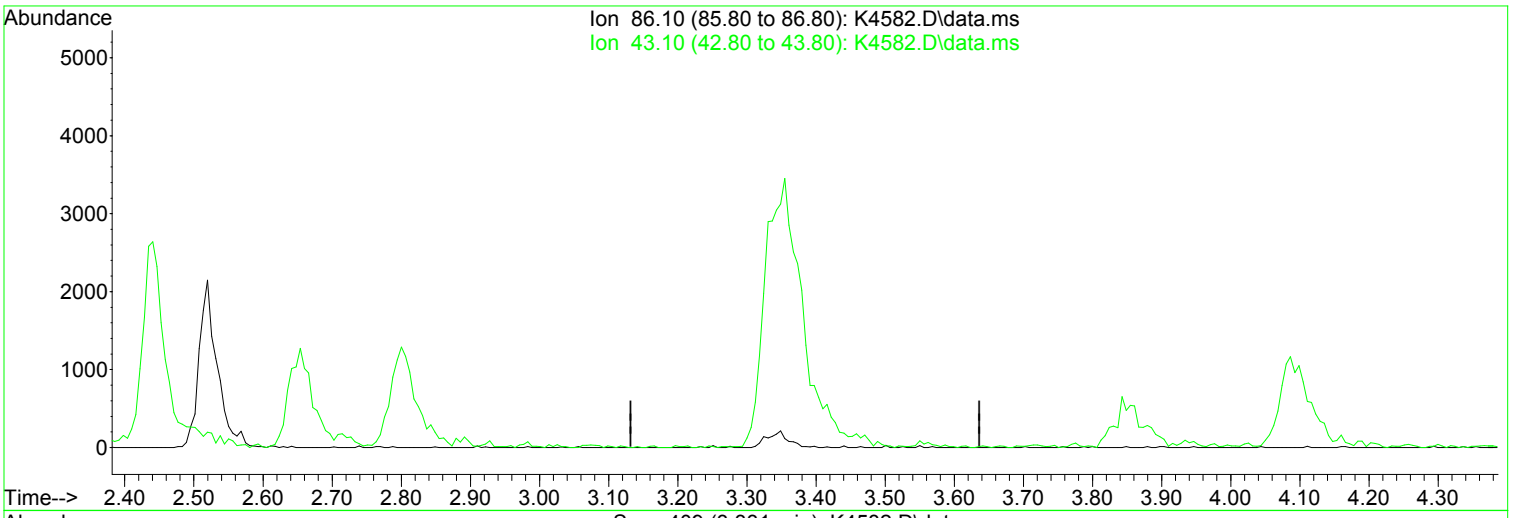
Poor integration.

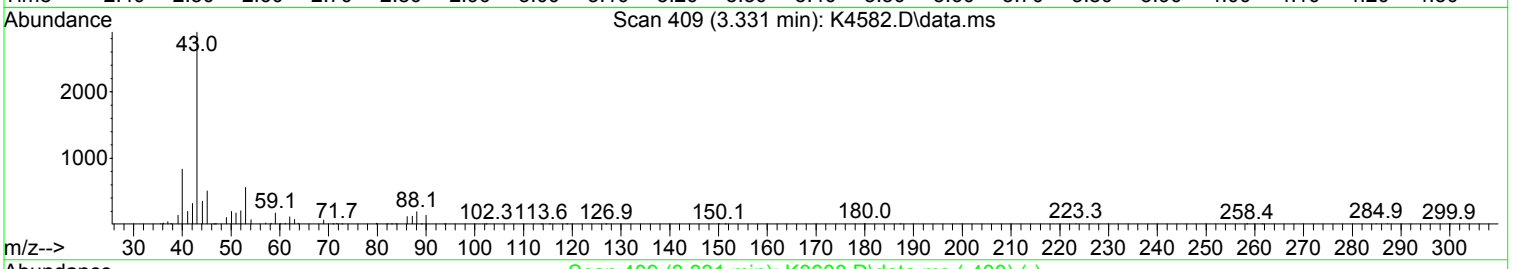
07/31/24

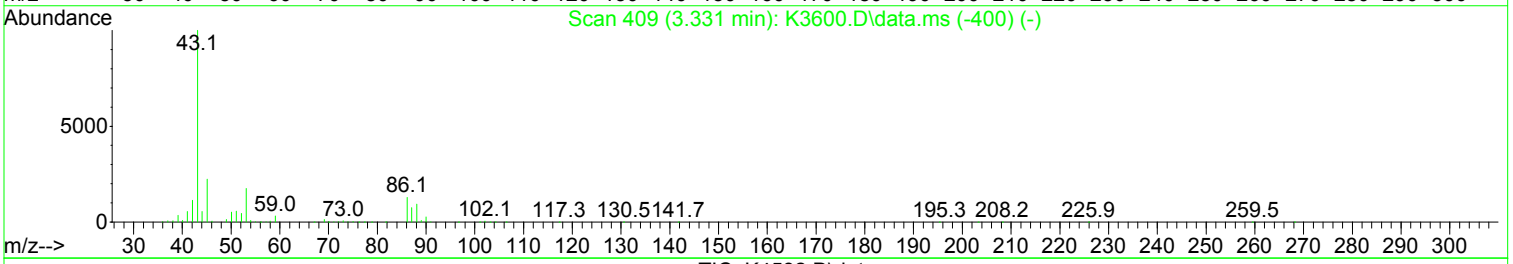
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(28) Vinyl Acetate

3.331min (-3.331) 0.00 ug/L

response 0

Ion	Exp%	Act%
86.10	100.00	0.00
43.10	778.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

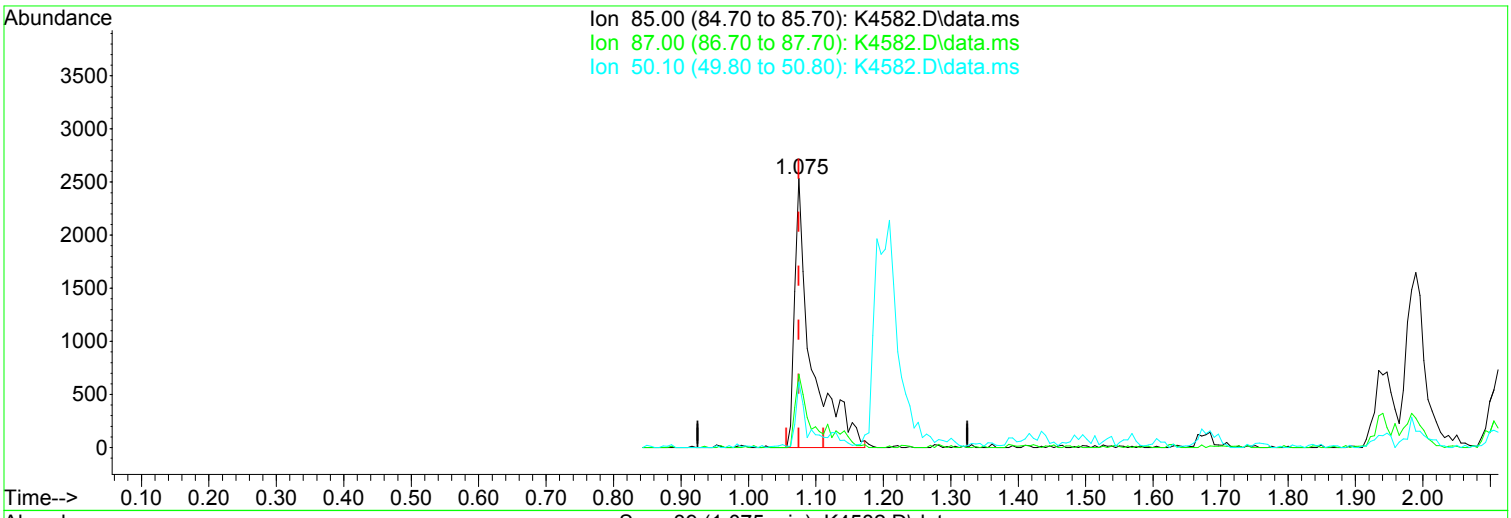
Before

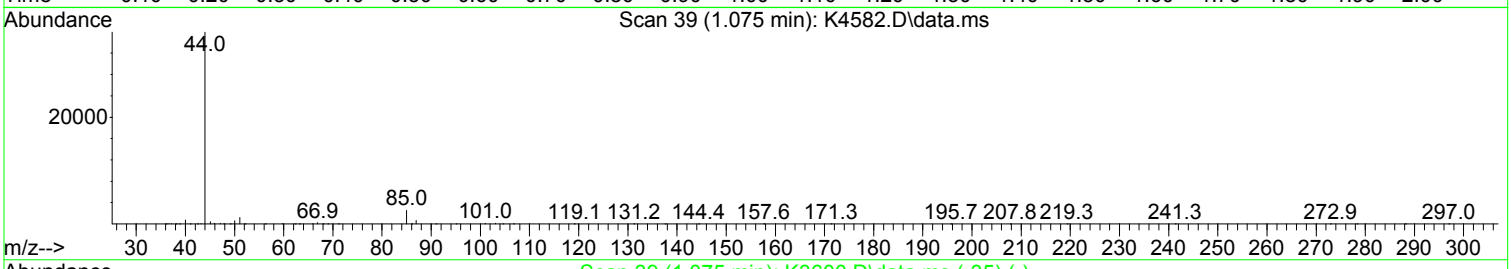
07/31/24

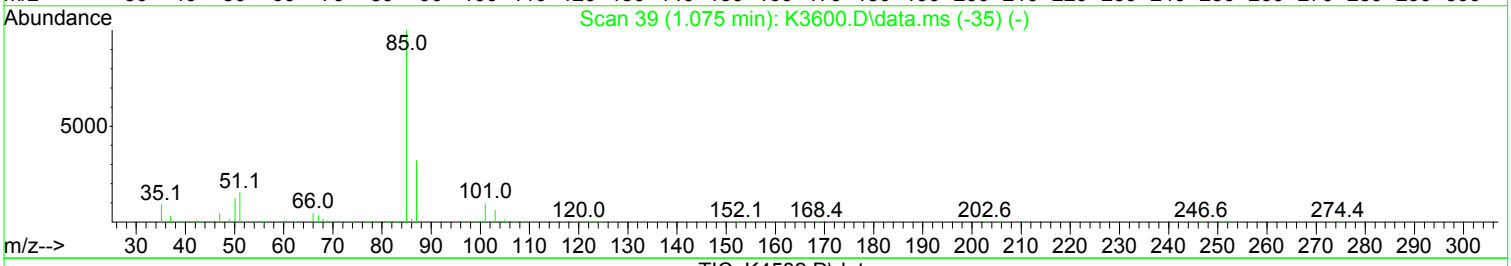
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(3) Dichlorodifluoromethane (P)

1.075min (-0.000) 1.04 ug/L m

response 4359

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	32.00	27.28
50.10	12.20	24.44
0.00	0.00	0.00

Manual Integration:

After

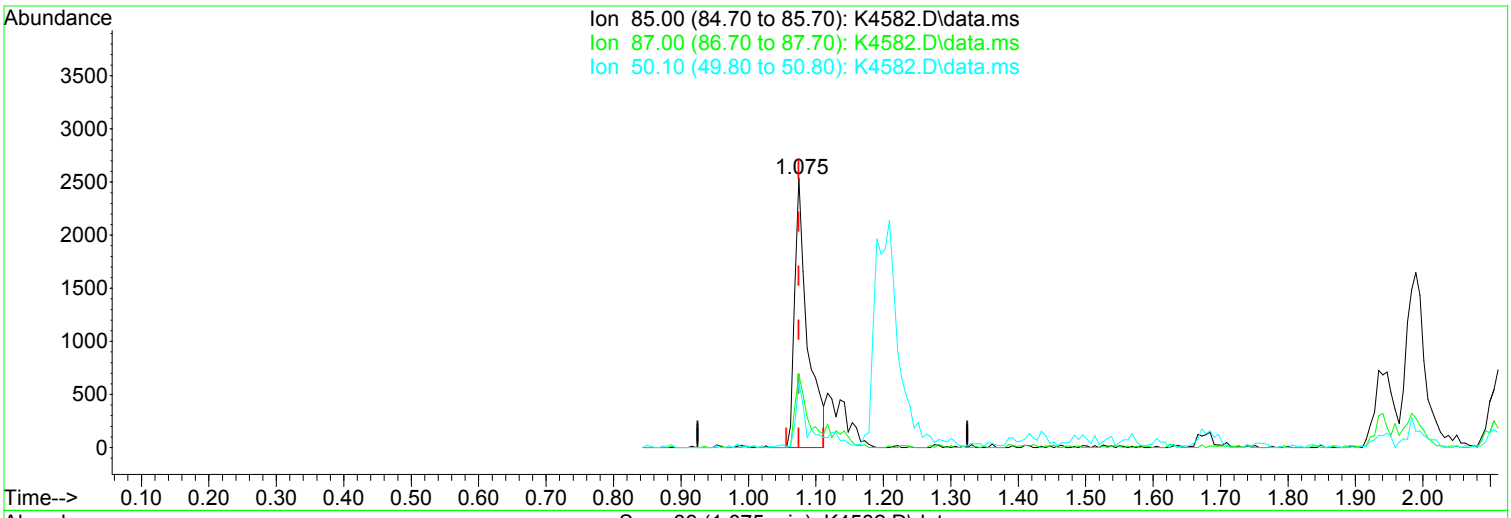
Poor integration.

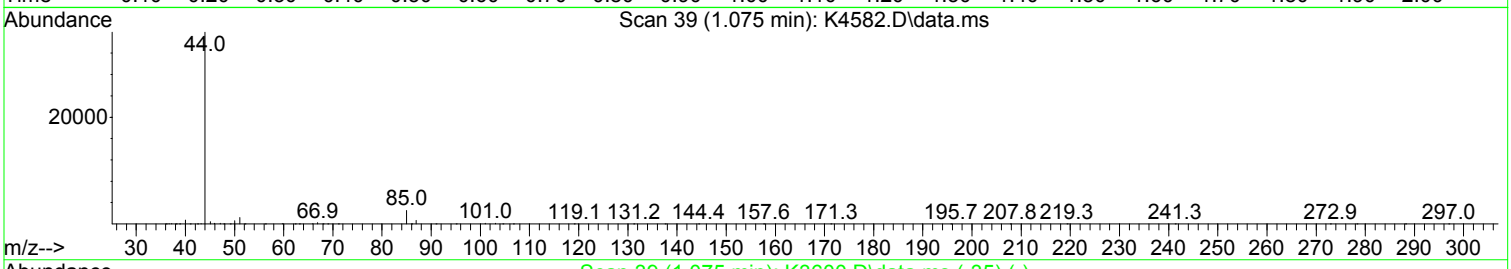
07/31/24

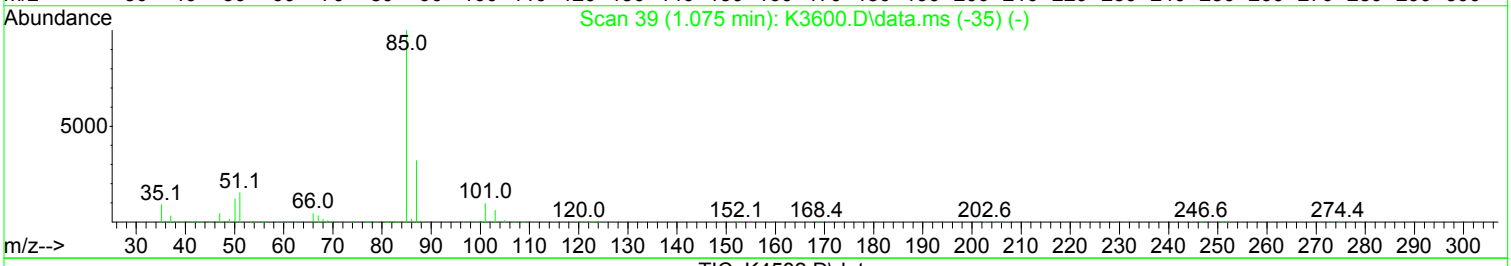
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(3) Dichlorodifluoromethane (P)

1.075min (-0.000) 0.79 ug/L

response 3327

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	32.00	27.28
50.10	12.20	24.44
0.00	0.00	0.00

Manual Integration:

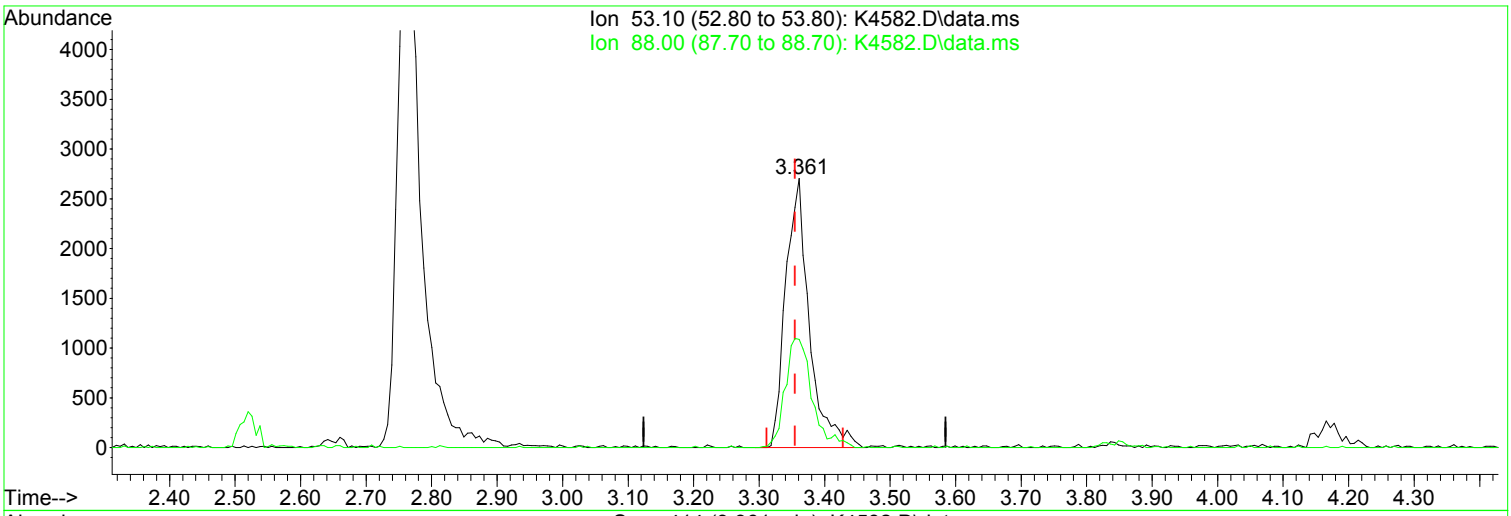
Before

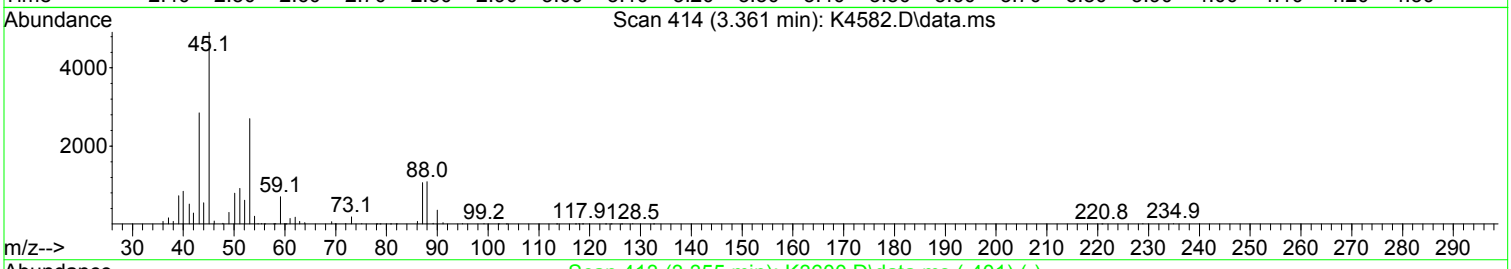
07/31/24

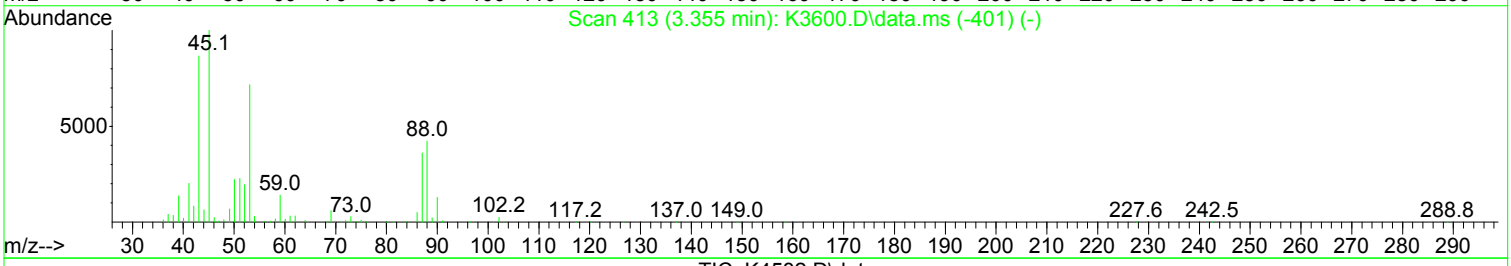
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(30) 2-Chloro-1,3-Butadiene

3.361min (+ 0.006) 0.98 ug/L m

response 6792

Ion	Exp%	Act%
53.10	100.00	100.00
88.00	59.10	40.21
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

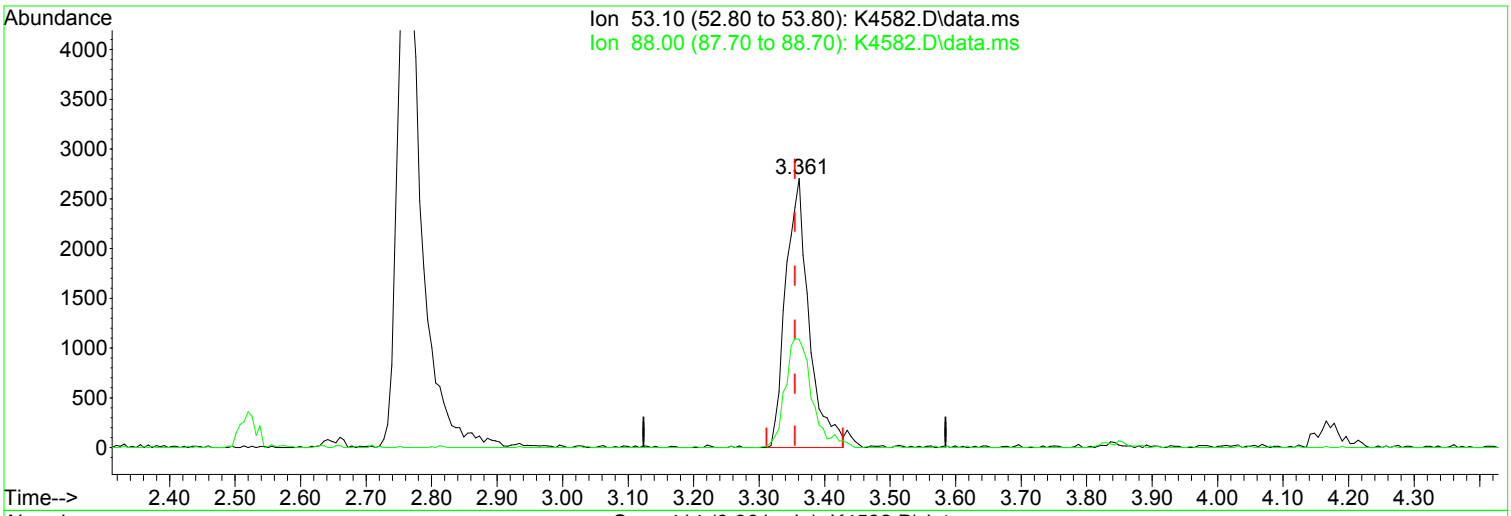
Poor integration.

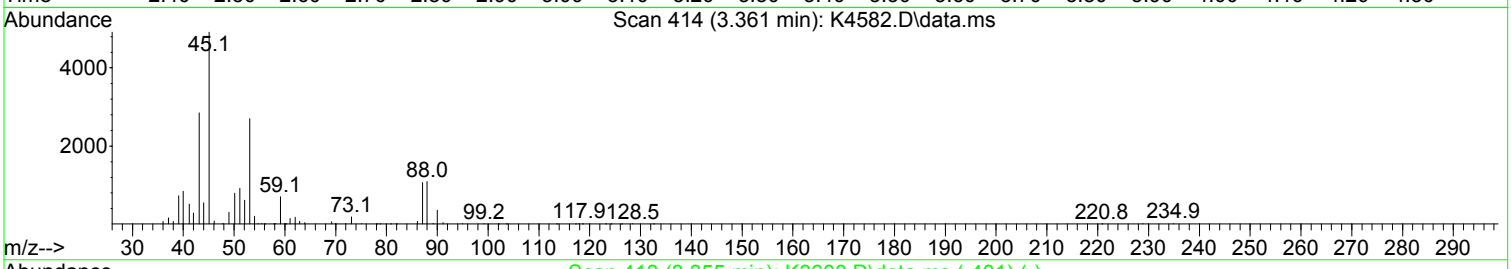
07/31/24

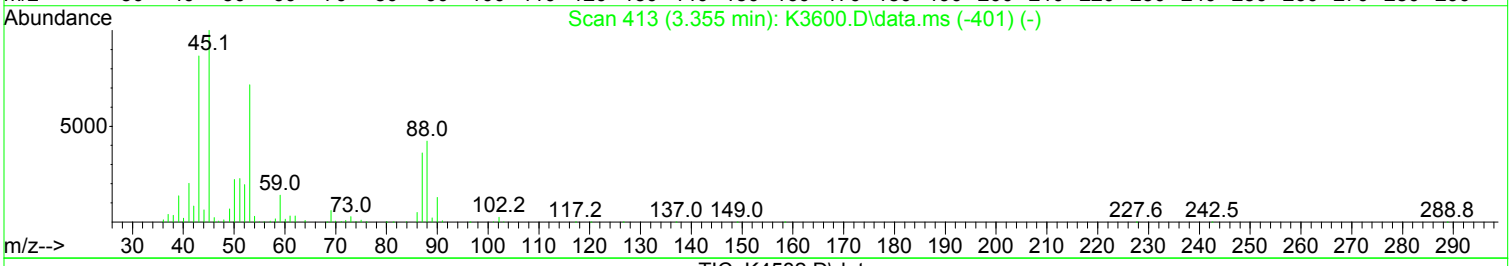
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(30) 2-Chloro-1,3-Butadiene

3.361min (+ 0.006) 0.96 ug/L

response 6652

Ion	Exp%	Act%
53.10	100.00	100.00
88.00	59.10	40.21
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

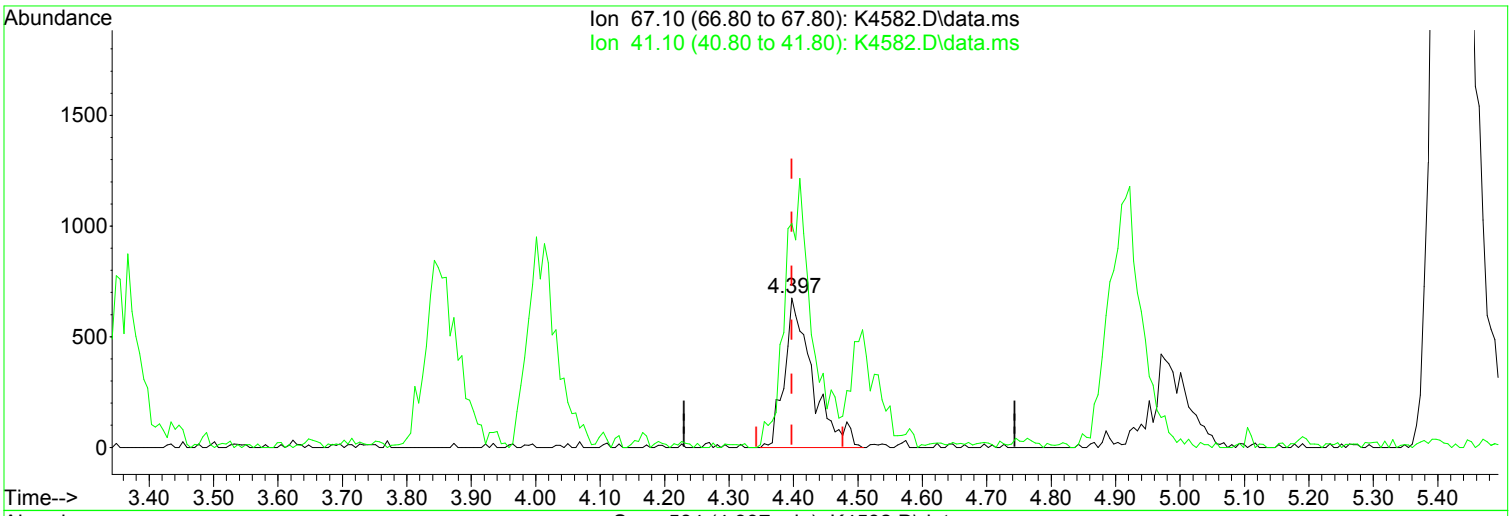
Before

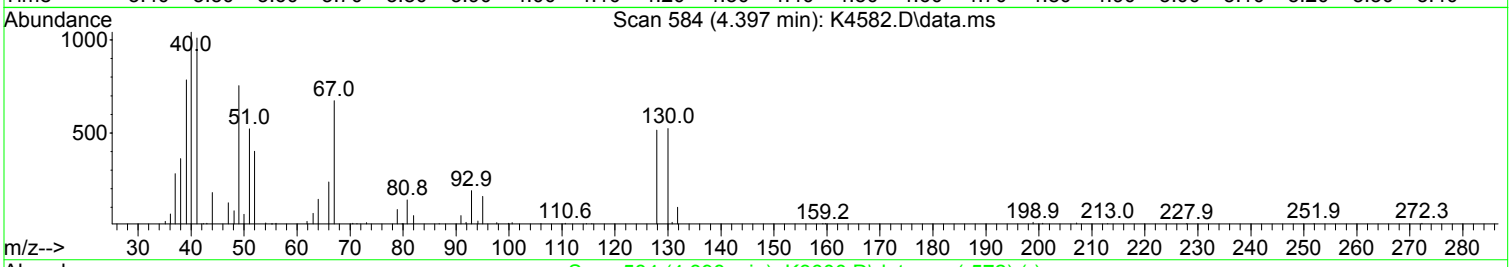
07/31/24

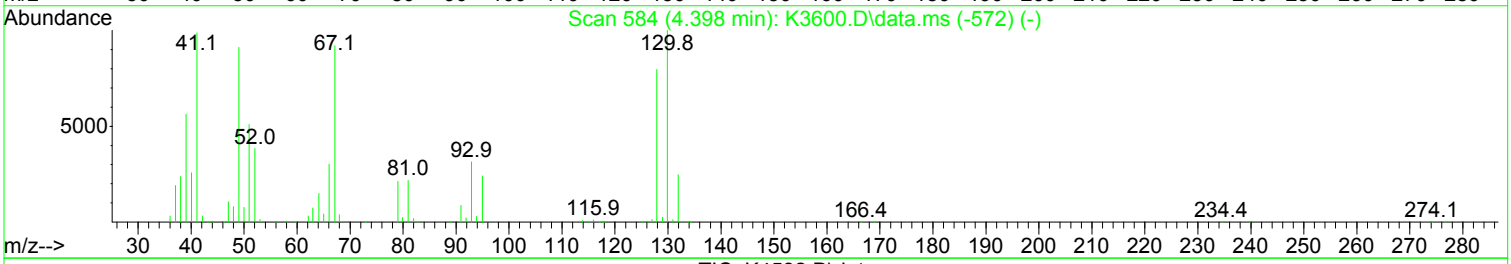
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(37) Methacrylonitrile

4.397min (-0.000) 0.94 ug/L m

response 2043

Ion	Exp%	Act%
67.10	100.00	100.00
41.10	107.20	150.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

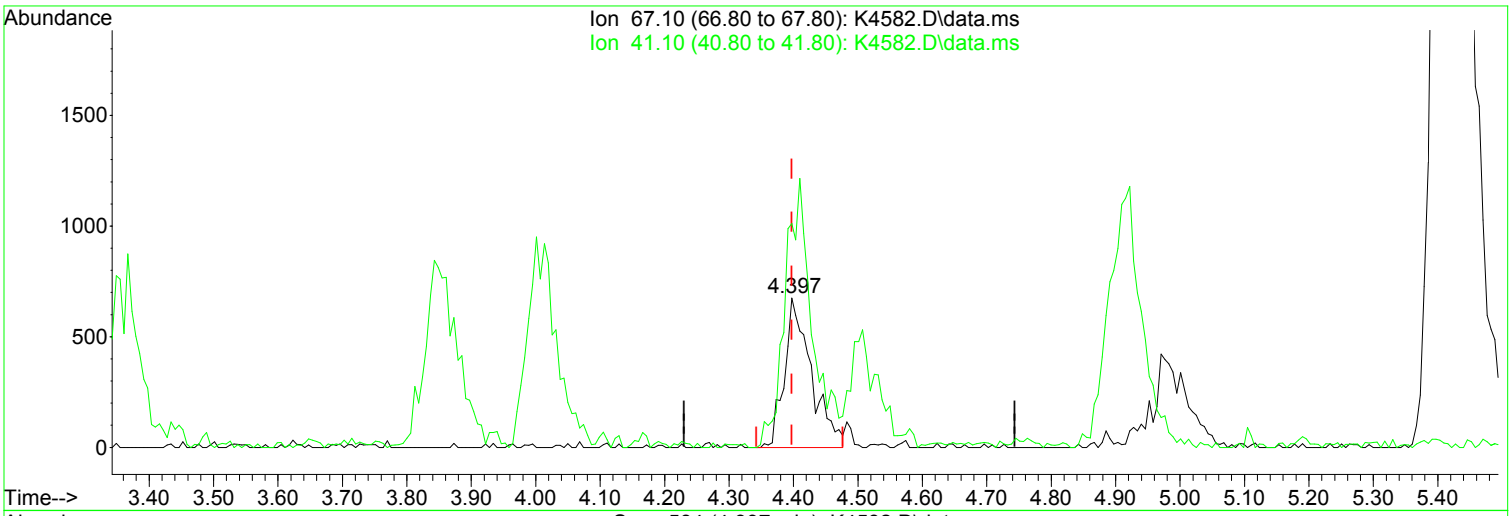
Poor integration.

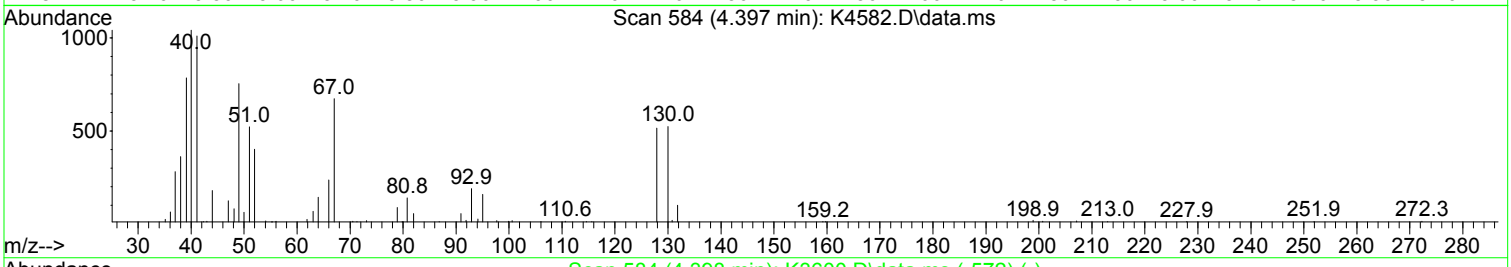
07/31/24

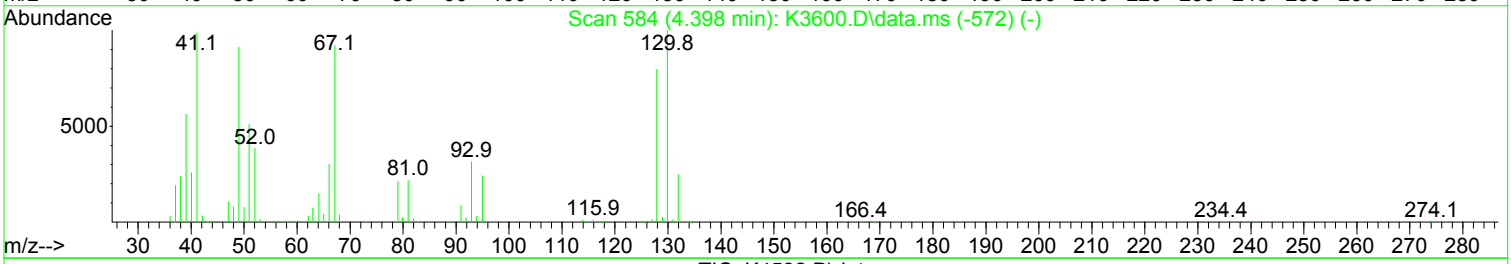
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(37) Methacrylonitrile

4.397min (-0.000) 0.90 ug/L

response 1960

Ion	Exp%	Act%
67.10	100.00	100.00
41.10	107.20	150.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

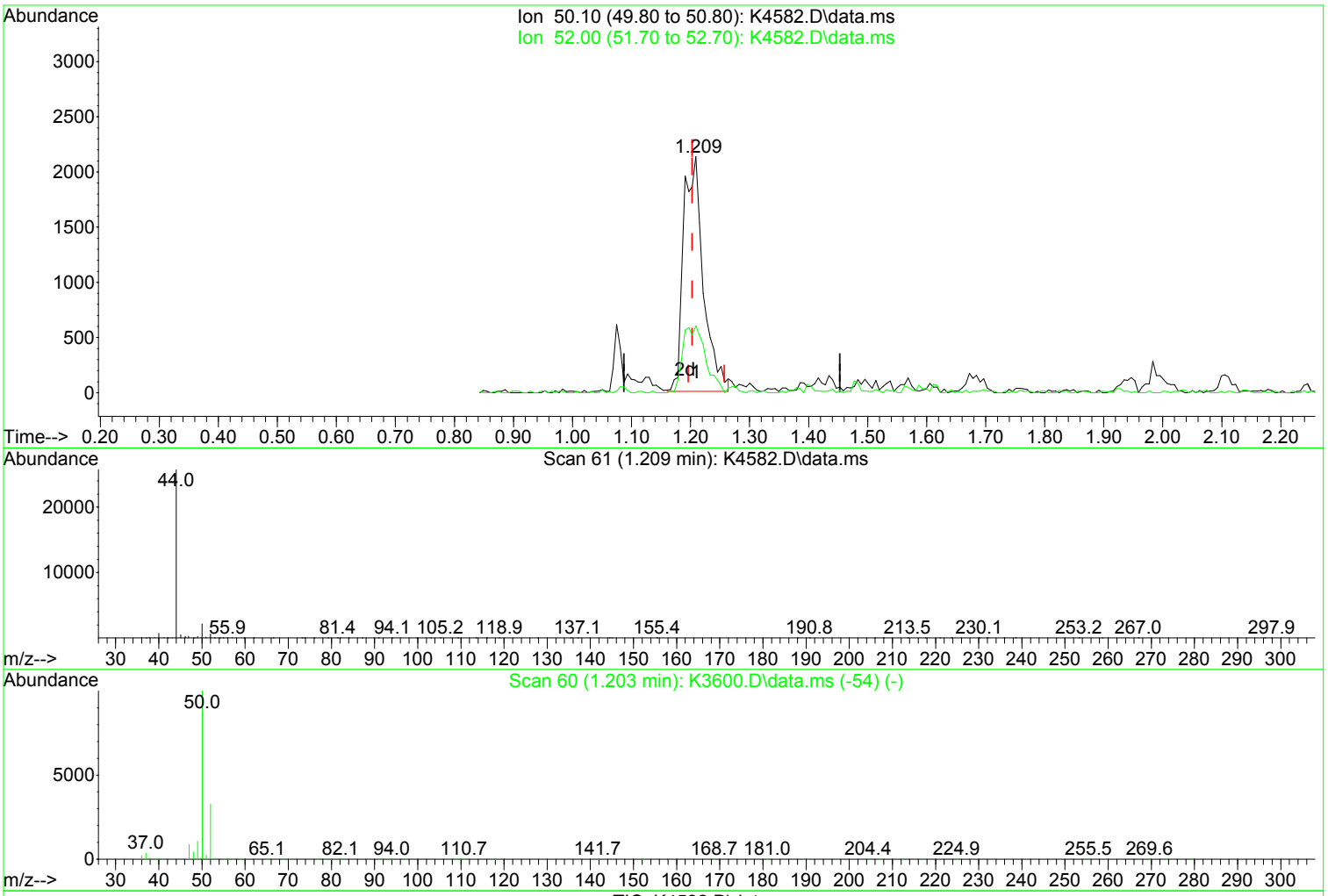
Before

07/31/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



TIC: K4582.D\data.ms

(4) Chloromethane (P)

1.209min (+ 0.006) 1.06 ug/L m

response 4963

Ion	Exp%	Act%
50.10	100.00	100.00
52.00	32.90	28.33
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

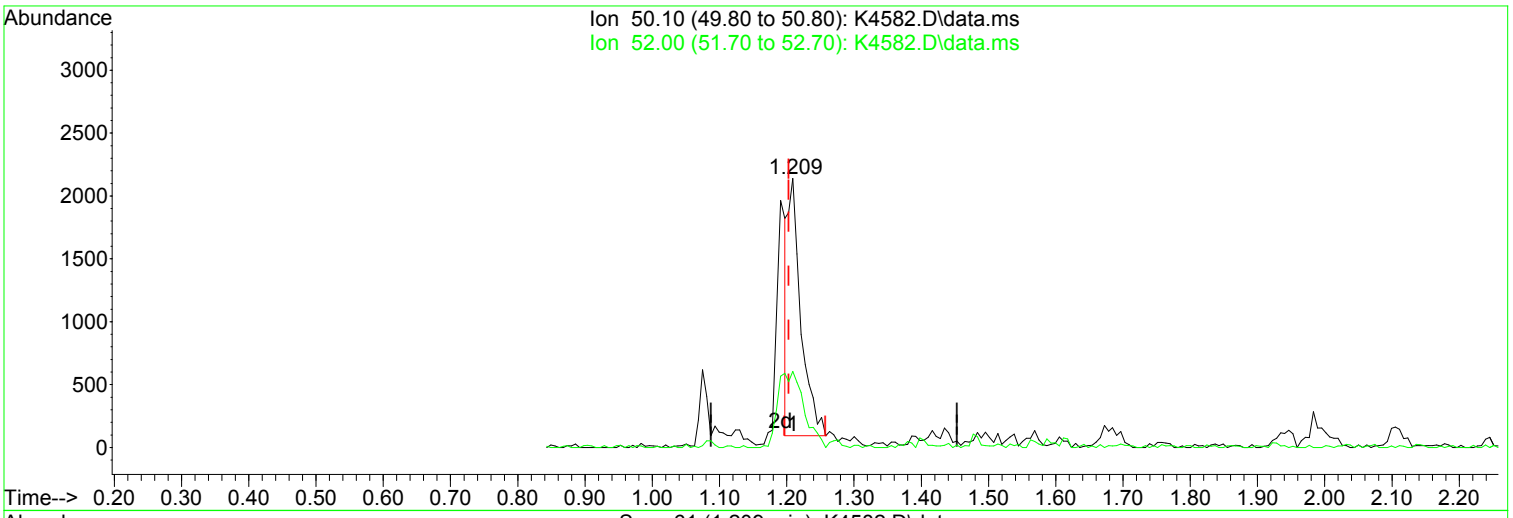
Split Peak.

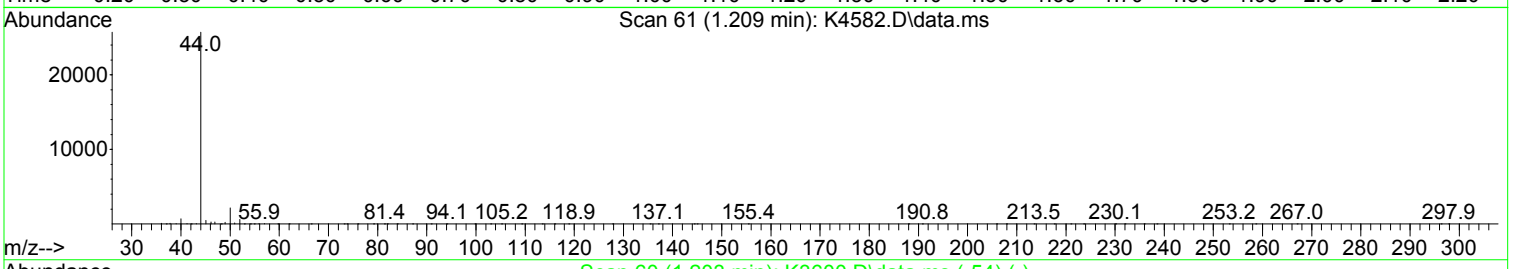
07/31/24

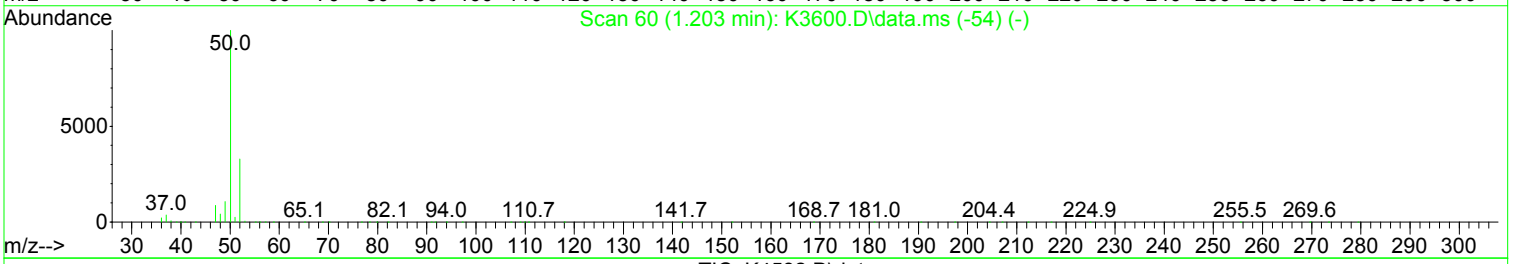
1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(4) Chloromethane (P)

1.209min (+ 0.006) 0.59 ug/L

response 2775

Ion	Exp%	Act%
50.10	100.00	100.00
52.00	32.90	28.33
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

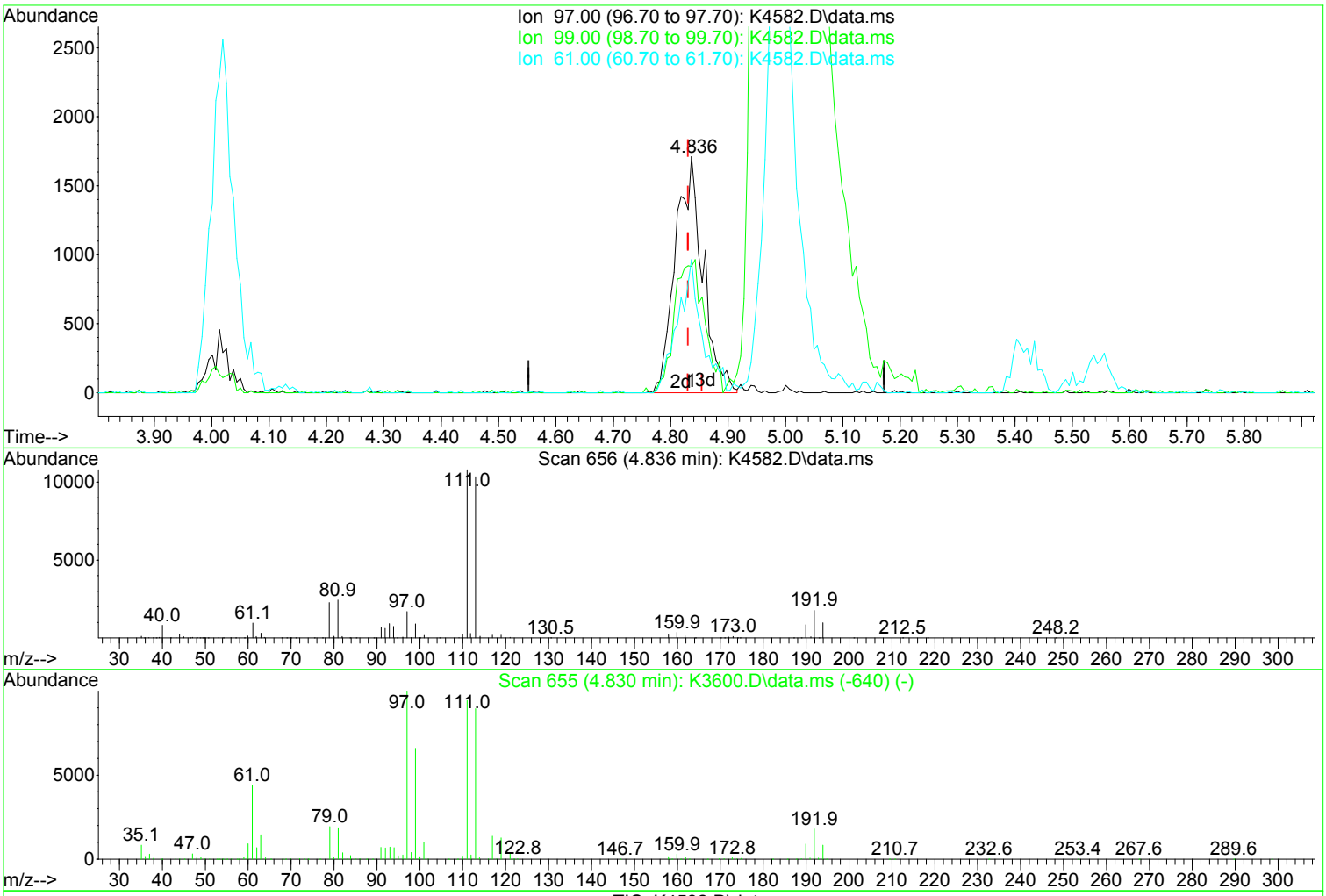
Before

07/31/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



TIC: K4582.D\data.ms

(40) 1,1,1-Trichloroethane (P)

4.836min (+ 0.006) 1.10 ug/L m

response 5666

Ion	Exp%	Act%
97.00	100.00	100.00
99.00	66.00	53.48
61.00	44.00	56.34
0.00	0.00	0.00

Manual Integration:

After

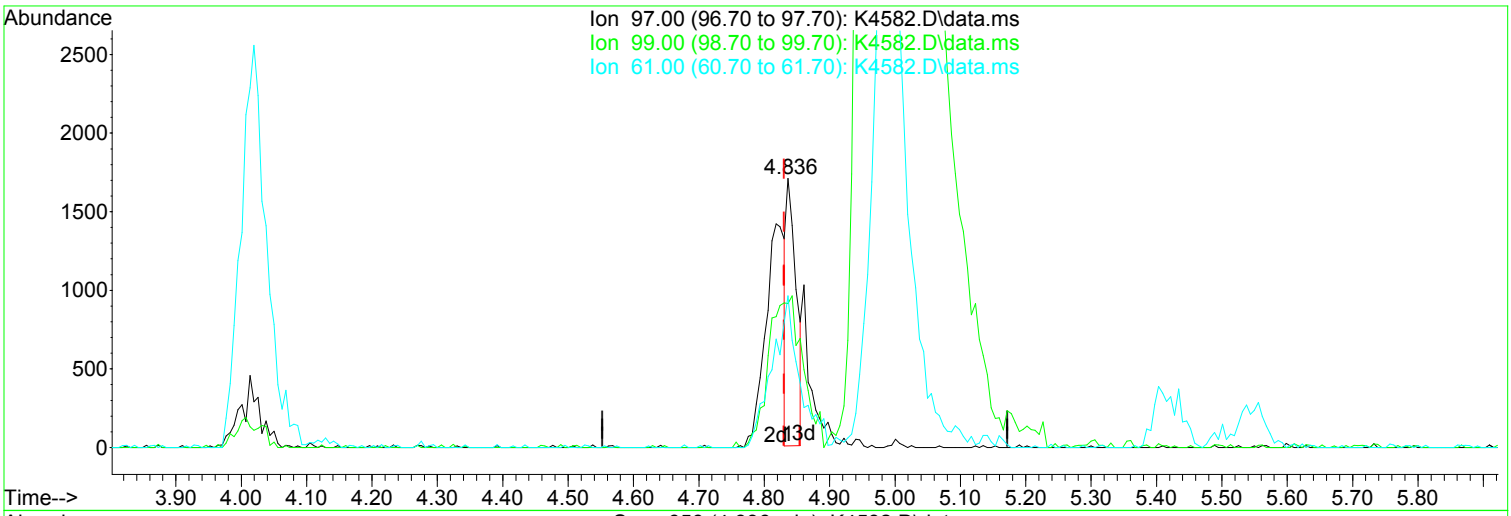
Split Peak.

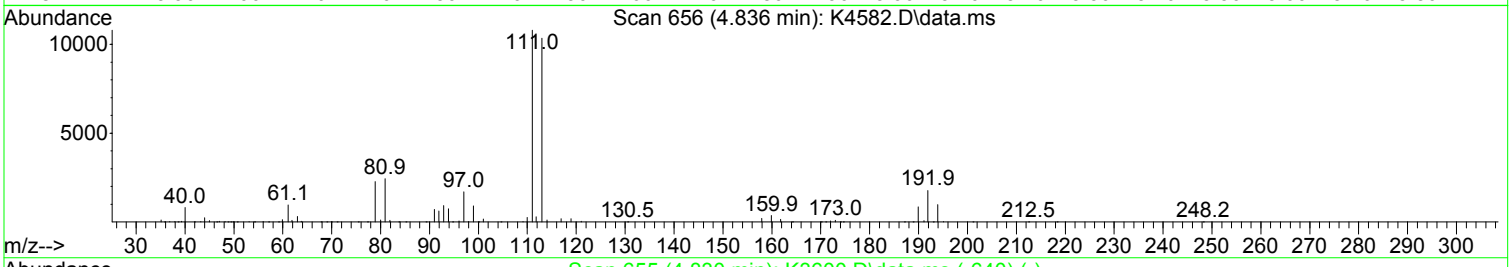
07/31/24

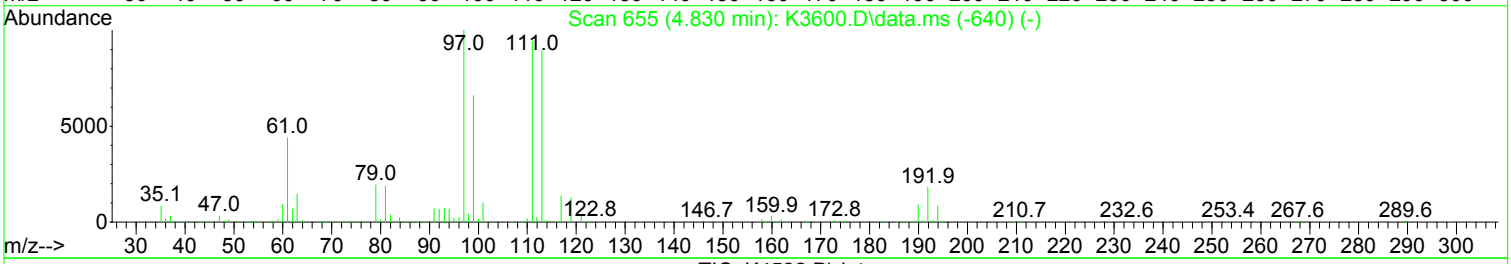
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(40) 1,1,1-Trichloroethane (P)

4.836min (+ 0.006) 0.35 ug/L

response 1784

Ion	Exp%	Act%
97.00	100.00	100.00
99.00	66.00	53.48
61.00	44.00	56.34
0.00	0.00	0.00

Manual Integration:

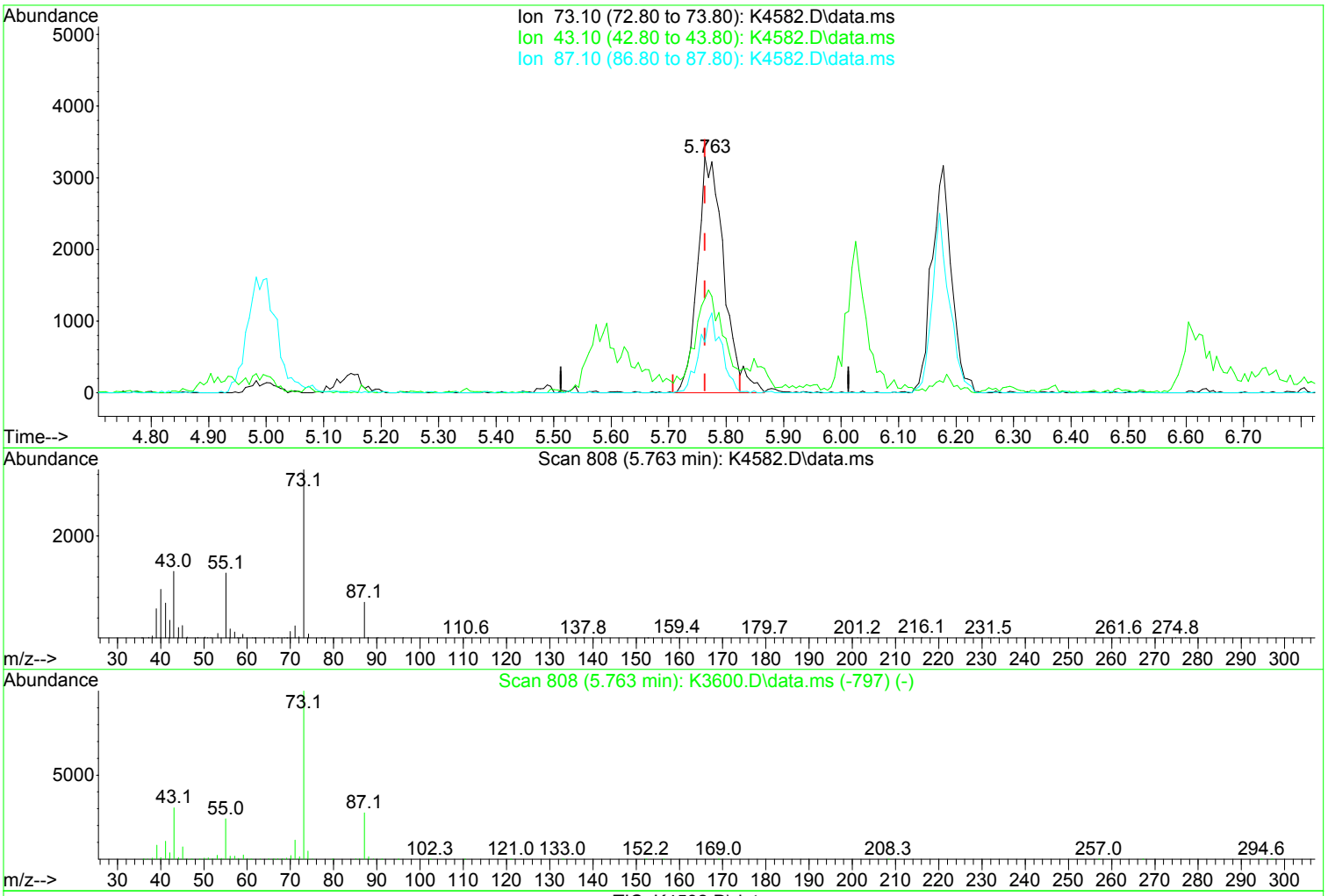
Before

07/31/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



TIC: K4582.D\data.ms

(41) TAME

5.763min (-0.000) 1.06 ug/L m

response 10487

Ion	Exp%	Act%
73.10	100.00	100.00
43.10	31.20	39.82
87.10	27.50	21.43
0.00	0.00	0.00

Manual Integration:

After

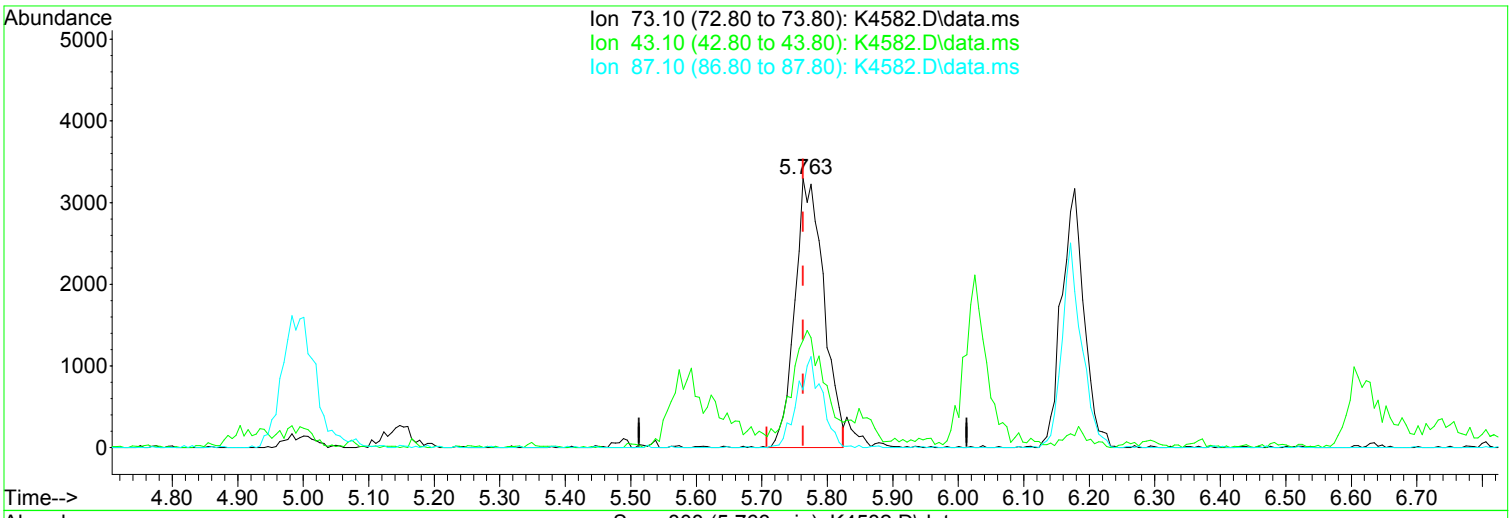
Split Peak.

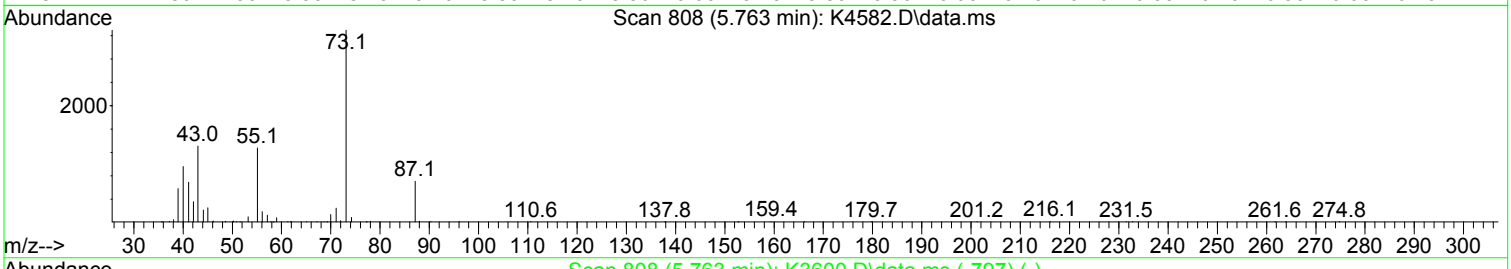
07/31/24

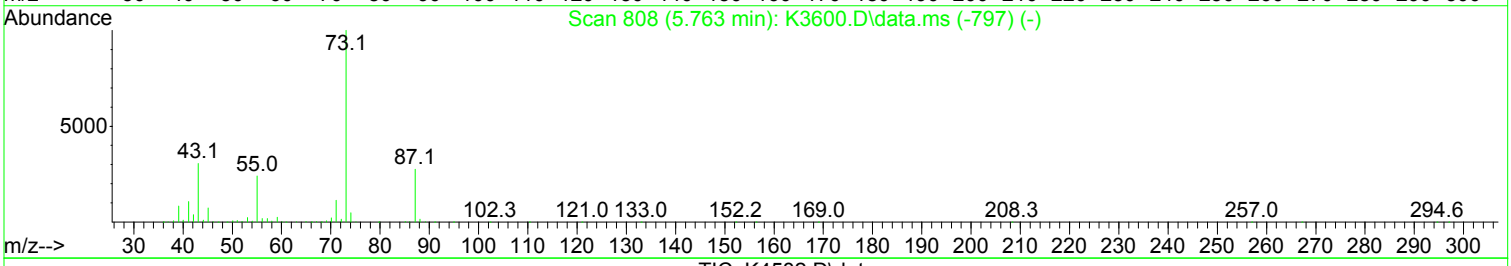
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(41) TAME

5.763min (-0.000) 1.02 ug/L

response 10076

Ion	Exp%	Act%
73.10	100.00	100.00
43.10	31.20	39.82
87.10	27.50	21.43
0.00	0.00	0.00

Manual Integration:

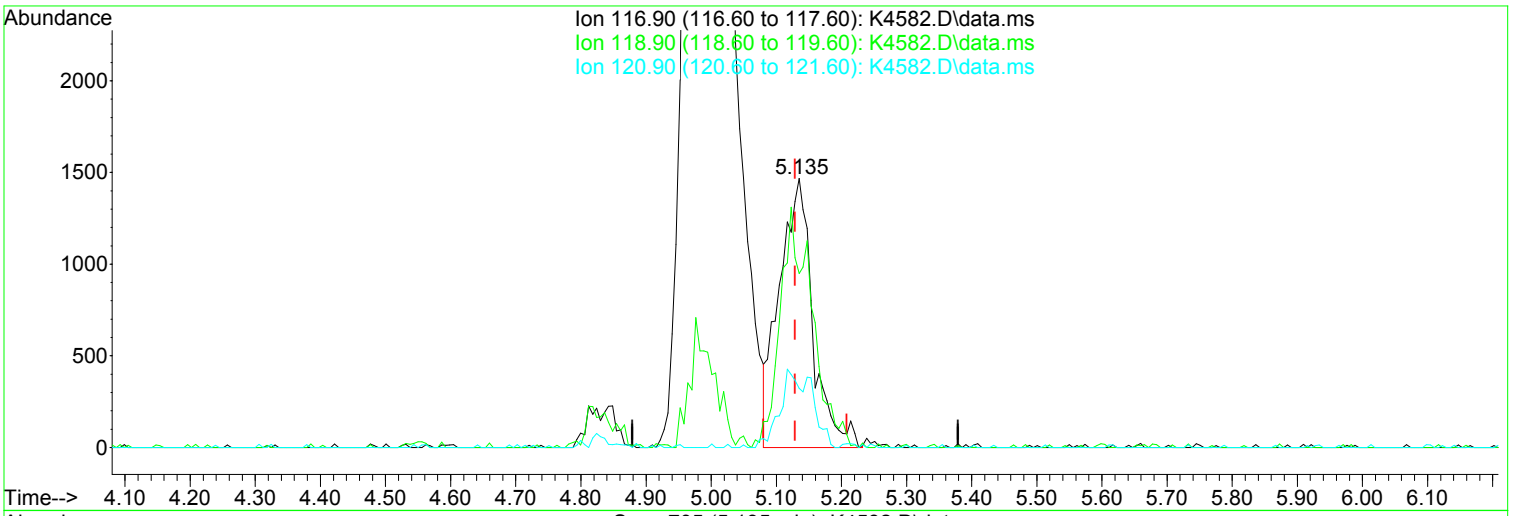
Before

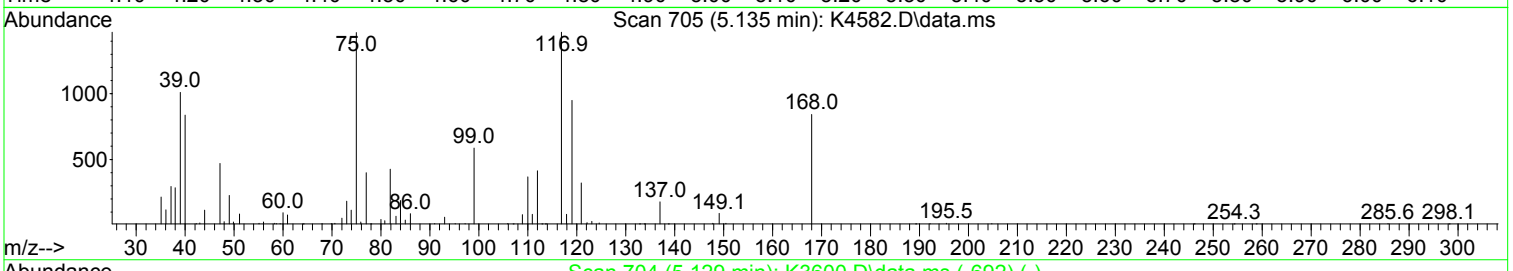
07/31/24

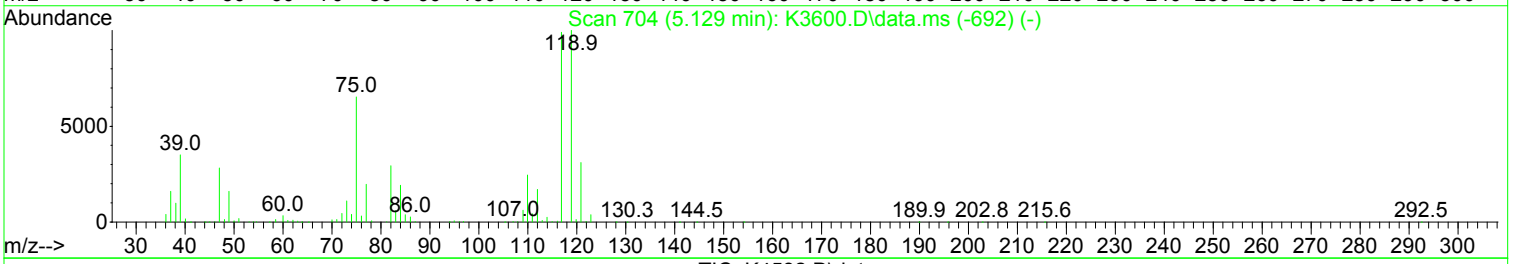
1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(45) Carbontetrachloride (P)

5.135min (+ 0.006) 1.10 ug/L m

response 5237

Ion	Exp%	Act%
116.90	100.00	100.00
118.90	98.90	64.76#
120.90	30.70	21.95
0.00	0.00	0.00

Manual Integration:

After

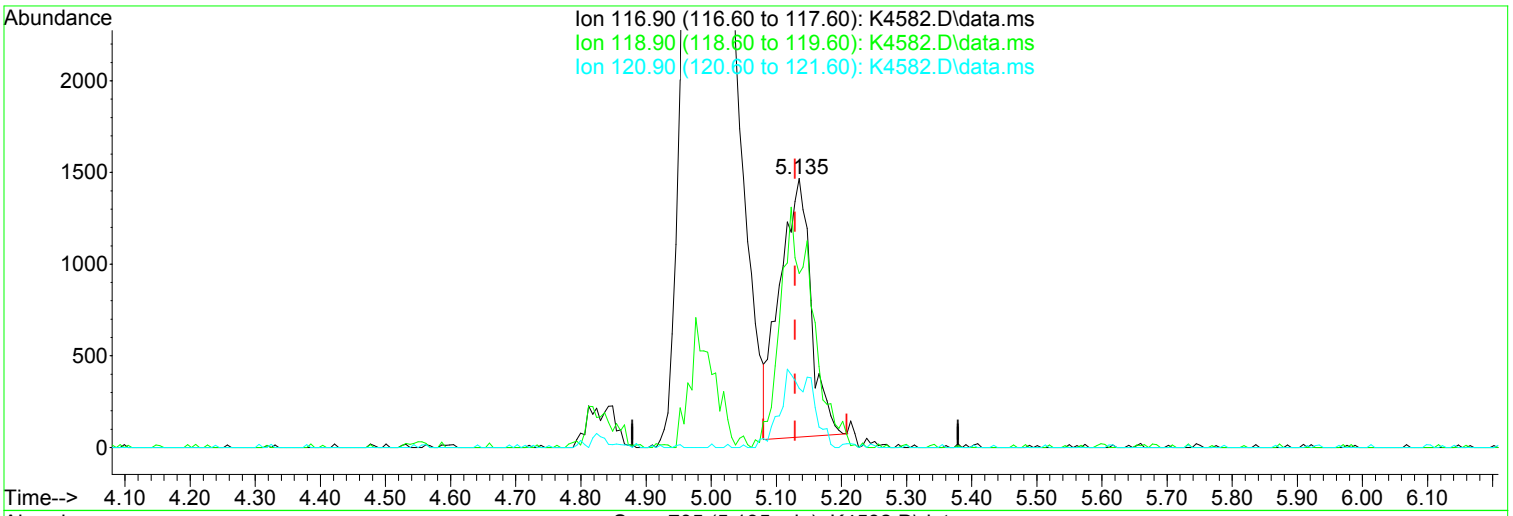
Poor integration.

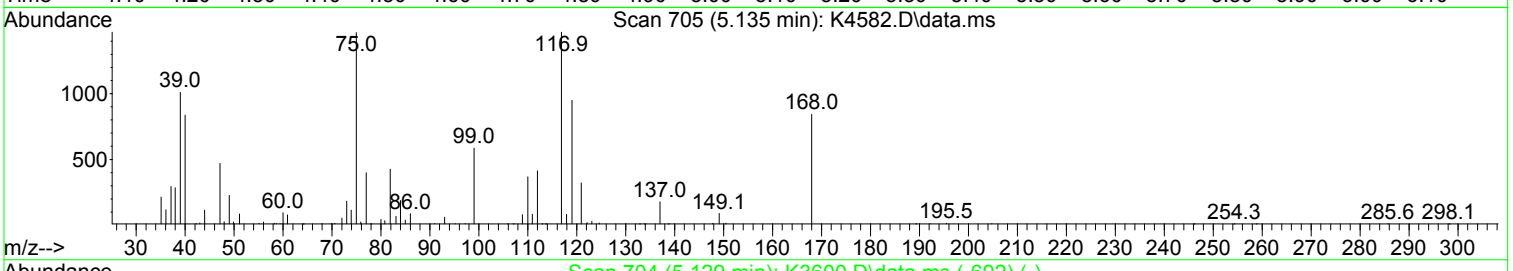
07/31/24

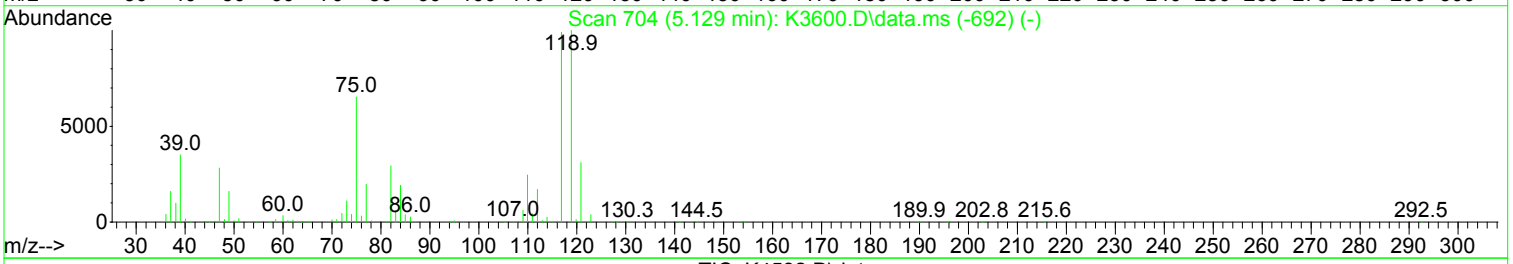
1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(45) Carbontetrachloride (P)

5.135min (+ 0.006) 0.98 ug/L

response 4699

Ion	Exp%	Act%
116.90	100.00	100.00
118.90	98.90	64.76#
120.90	30.70	21.95
0.00	0.00	0.00

Manual Integration:

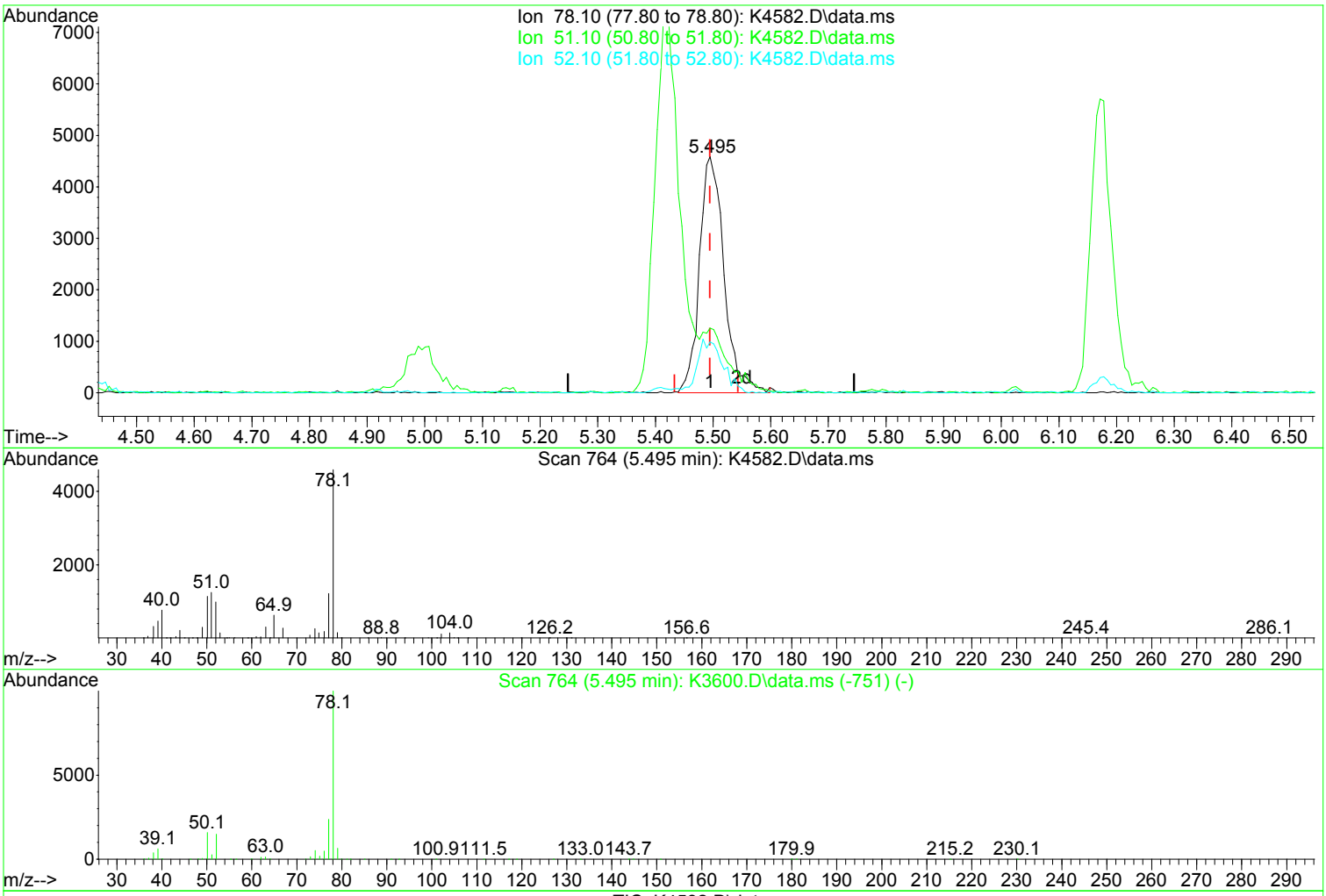
Before

07/31/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



TIC: K4582.D\data.ms

(48) Benzene (P)

5.495min (-0.000) 1.06 ug/L m

response 13557

Ion	Exp%	Act%
78.10	100.00	100.00
51.10	17.20	27.29
52.10	15.10	21.52
0.00	0.00	0.00

Manual Integration:

After

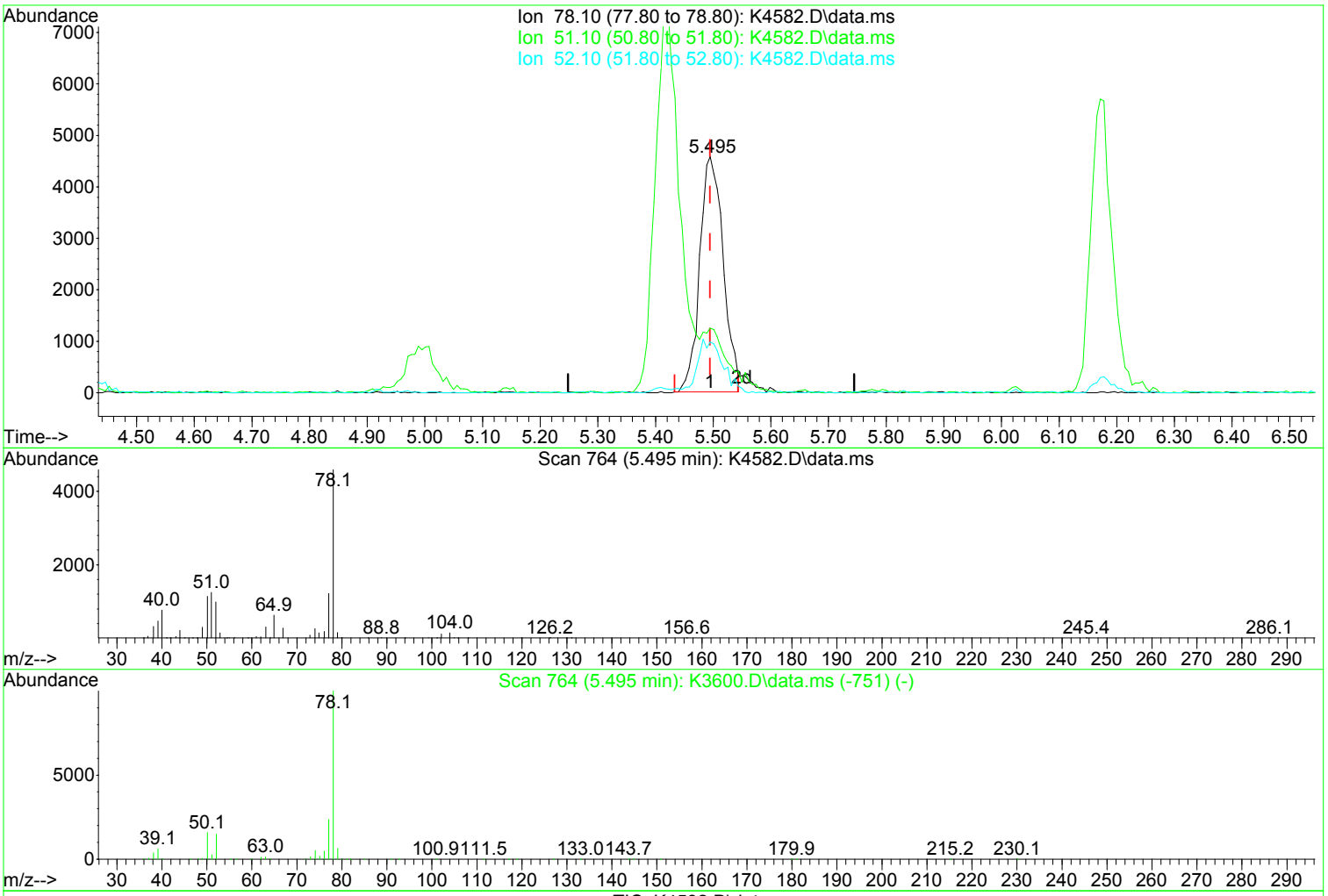
Poor integration.

07/31/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



TIC: K4582.D\data.ms

(48) Benzene (P)

5.495min (-0.000) 1.01 ug/L

response 12920

Ion	Exp%	Act%
78.10	100.00	100.00
51.10	17.20	27.29
52.10	15.10	21.52
0.00	0.00	0.00

Manual Integration:

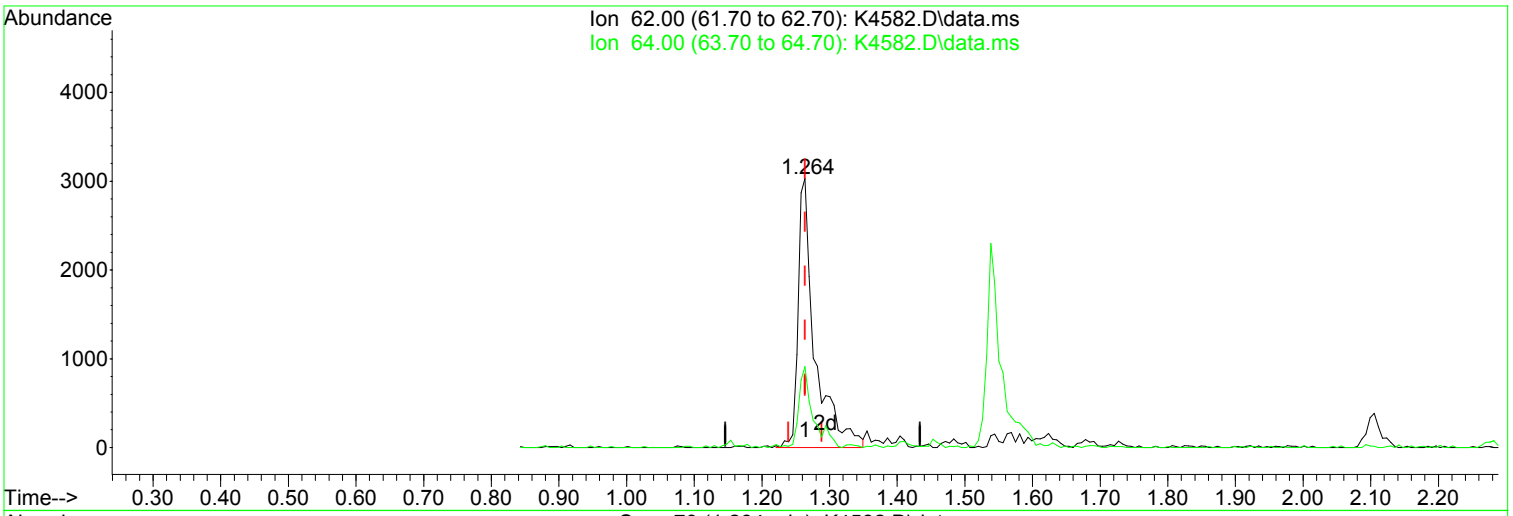
Before

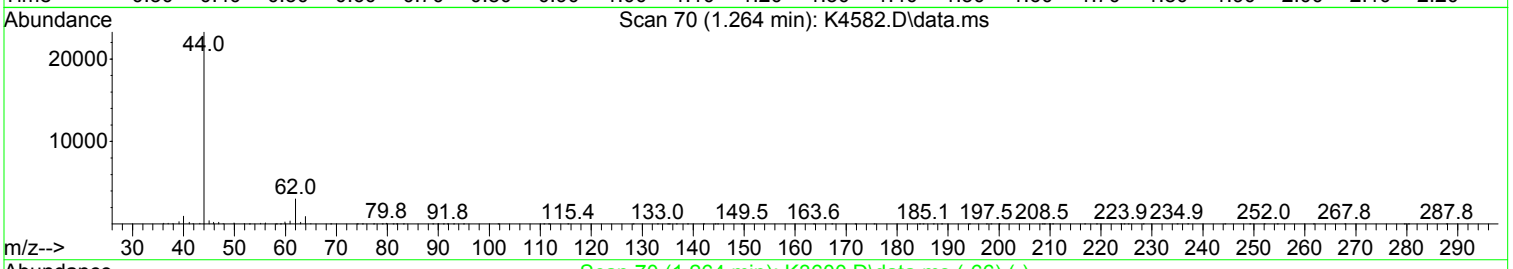
07/31/24

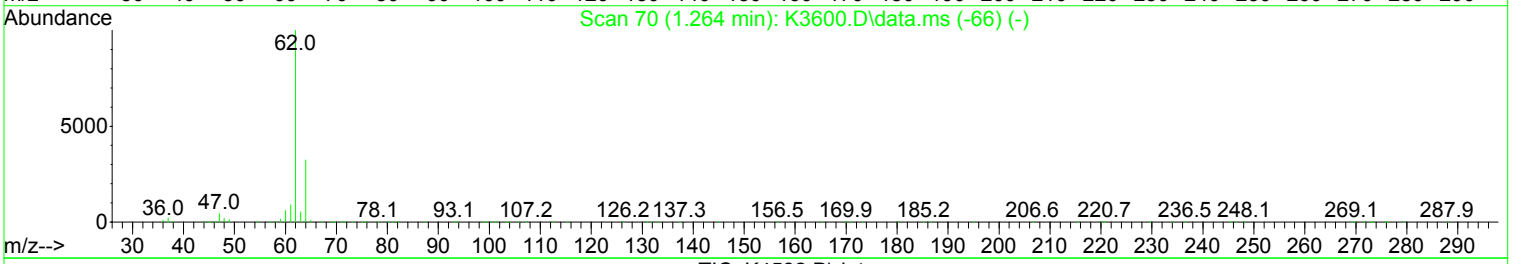
1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(5) Vinyl Chloride (P)

1.264min (-0.000) 1.08 ug/L m

response 5249

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	32.40	30.13
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

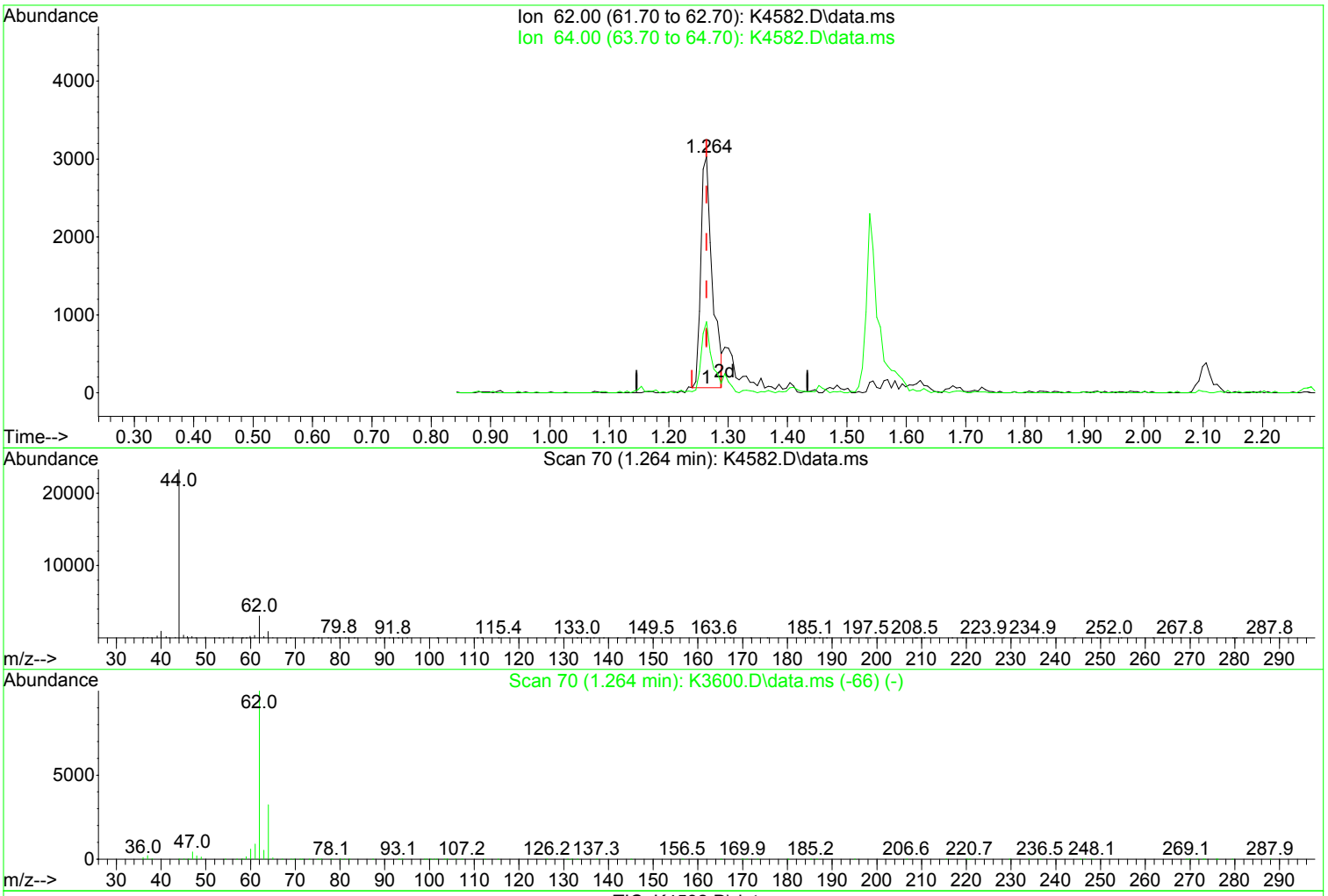
Split Peak.

07/31/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



TIC: K4582.D\data.ms

(5) Vinyl Chloride (P)

1.264min (-0.000) 0.82 ug/L

response 3990

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	32.40	30.13
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

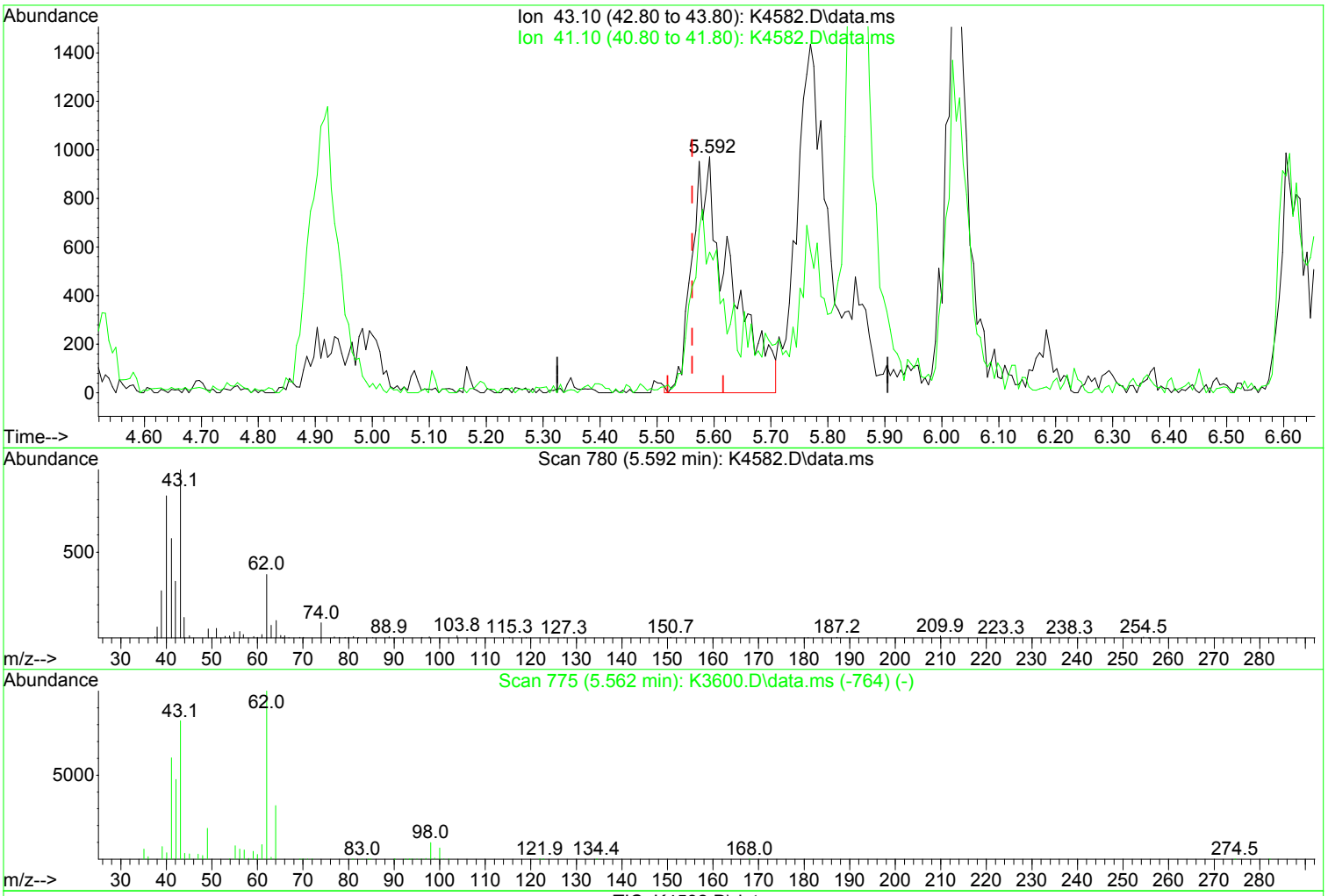
Before

07/31/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



TIC: K4582.D\data.ms

(50) Iso-Butyl Alcohol

5.592min (+ 0.030) 14.75 ug/L m

response 4548

Ion	Exp%	Act%
43.10	100.00	100.00
41.10	73.40	59.57
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

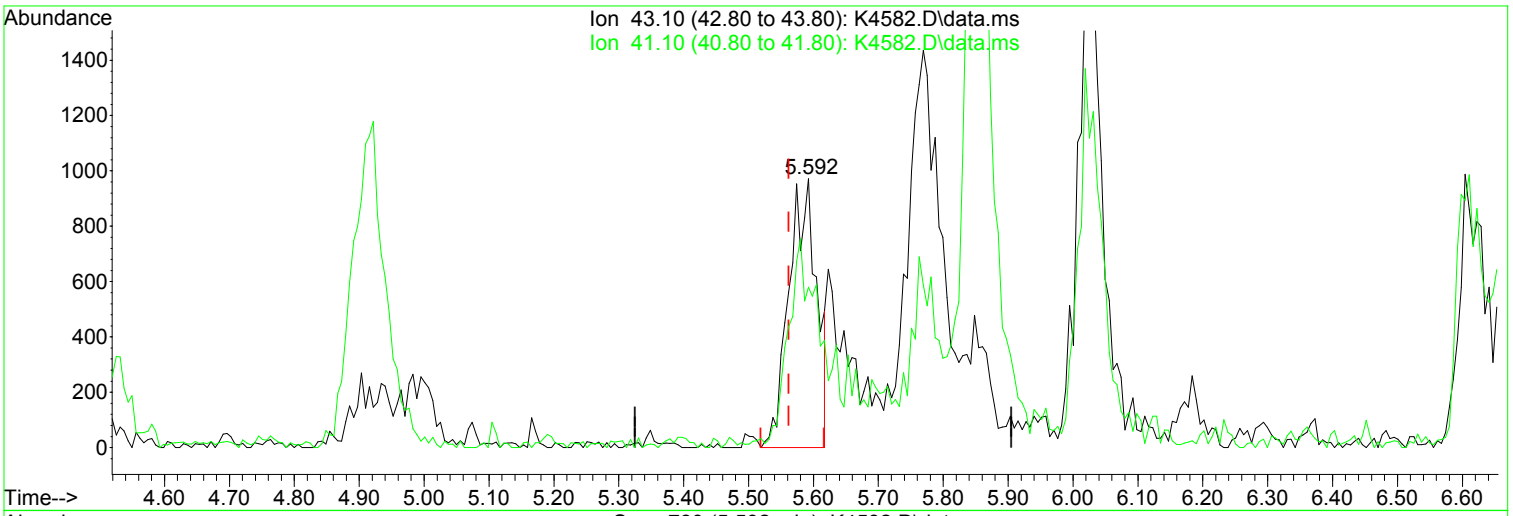
Poor integration.

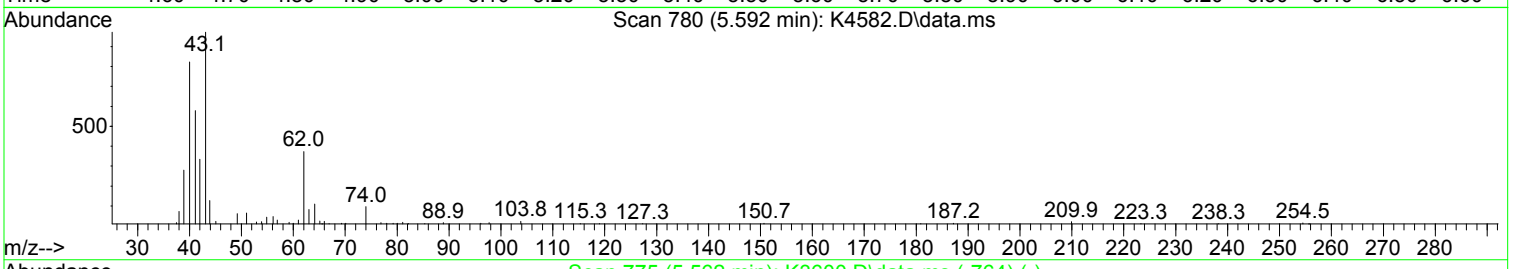
07/31/24

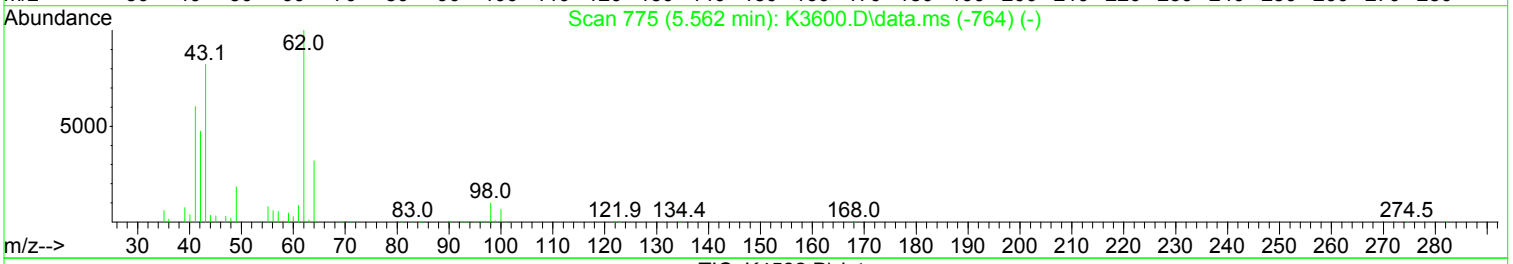
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(50) Iso-Butyl Alcohol

5.592min (+ 0.030) 9.35 ug/L

response 2883

Ion	Exp%	Act%
43.10	100.00	100.00
41.10	73.40	59.57
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

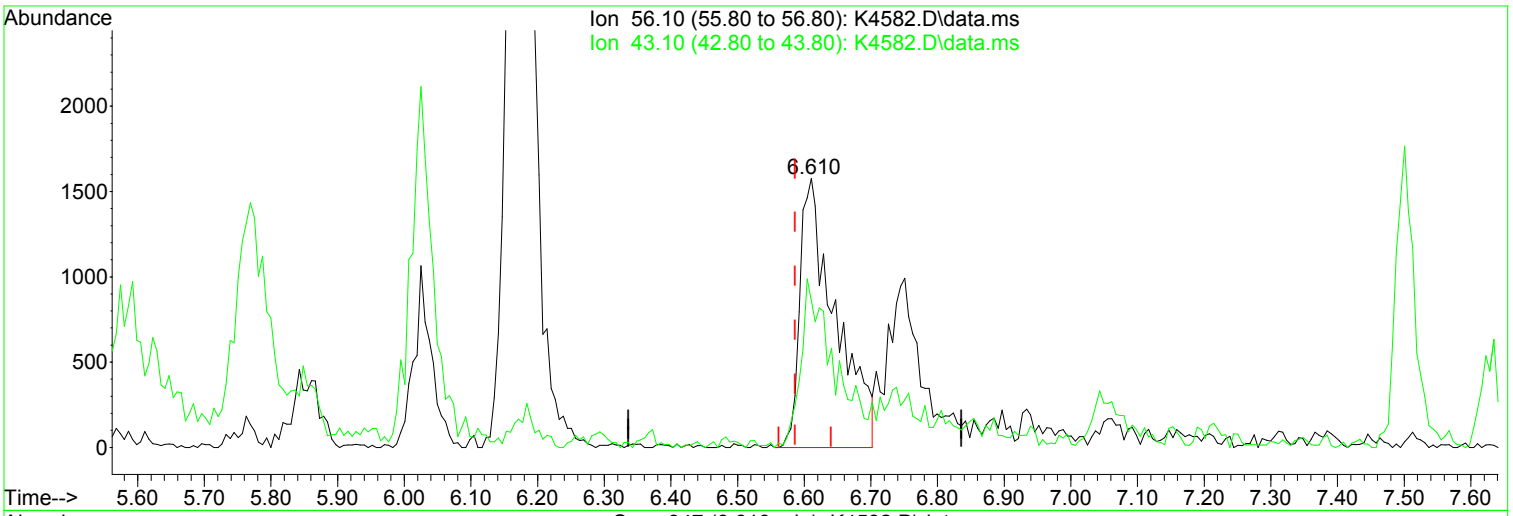
Before

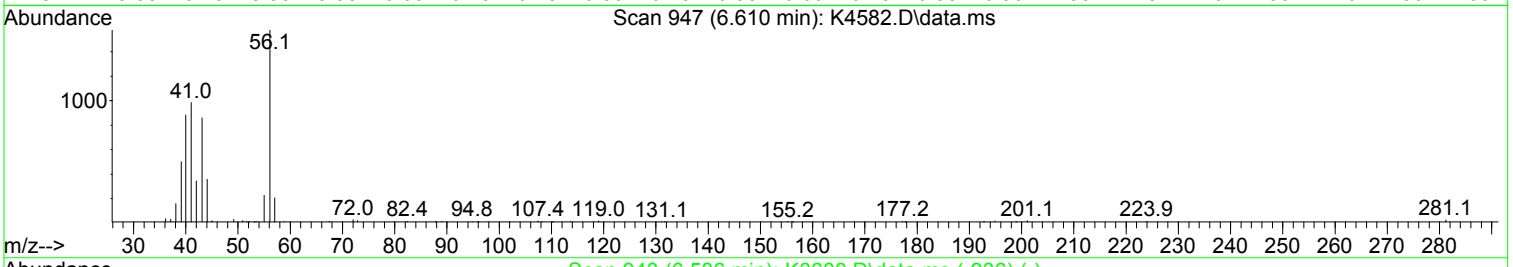
07/31/24

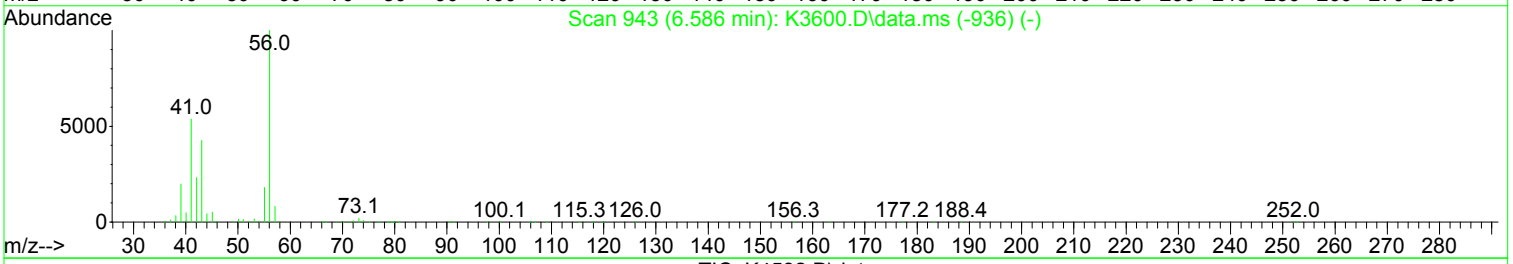
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(52) 1-Butanol

6.610min (+ 0.024) 28.79 ug/L m

response 5818

Ion	Exp%	Act%
56.10	100.00	100.00
43.10	42.60	54.63
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

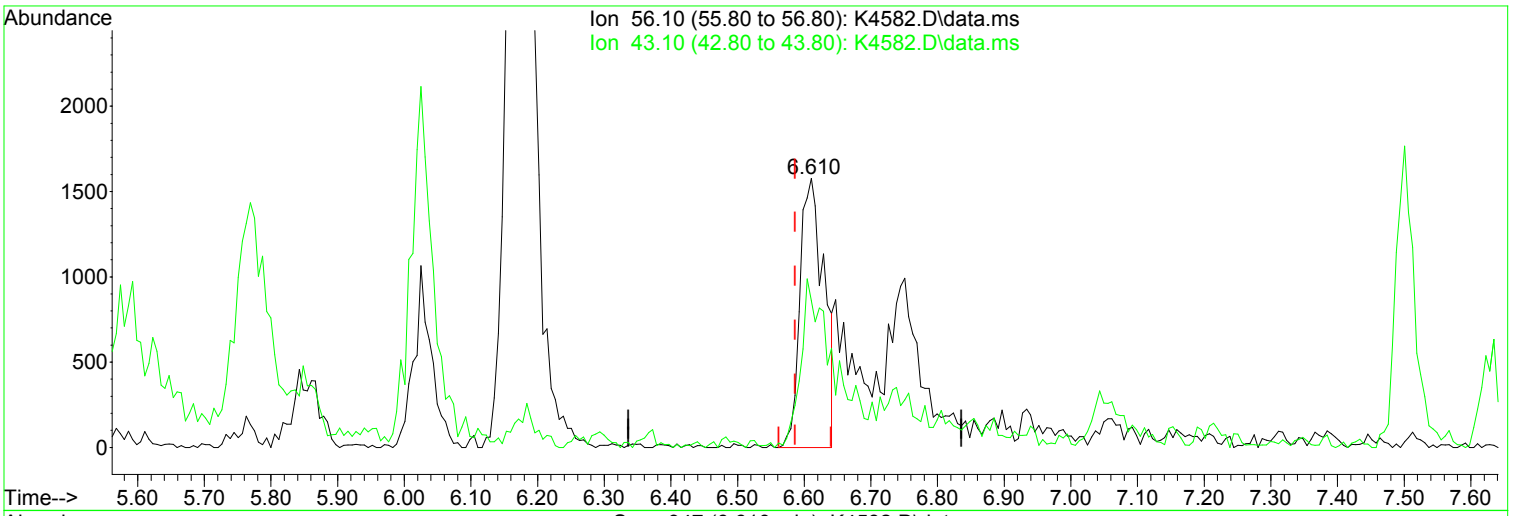
Poor integration.

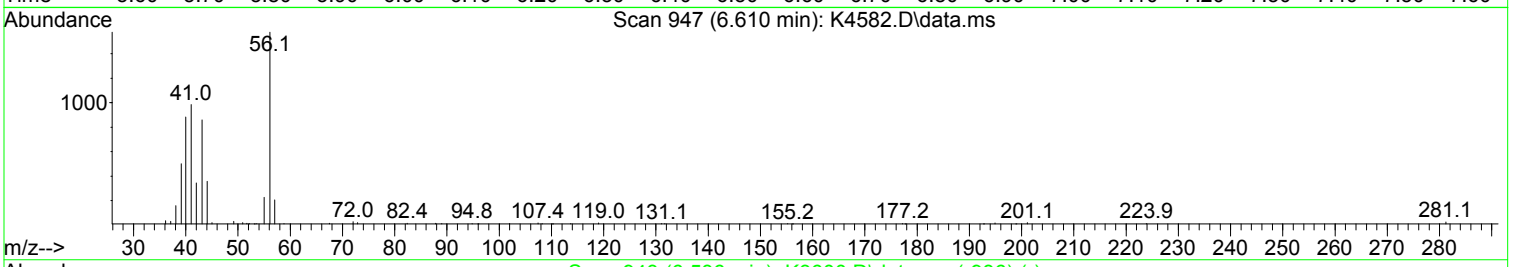
07/31/24

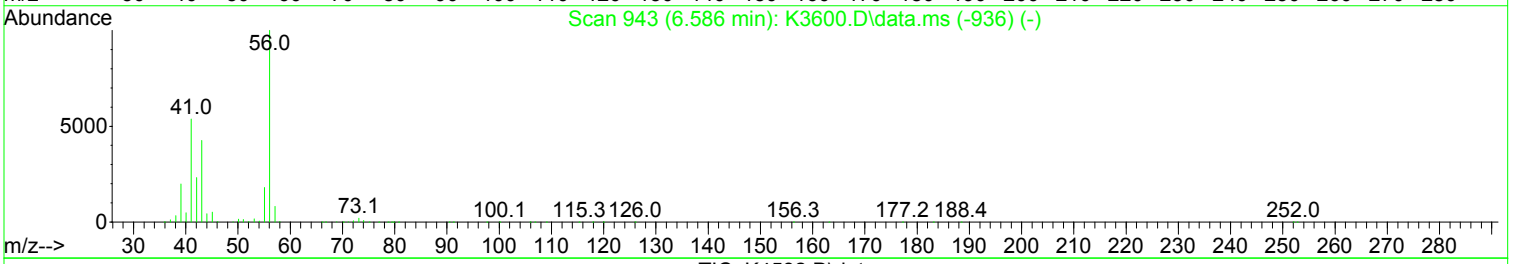
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(52) 1-Butanol

6.610min (+ 0.024) 19.62 ug/L

response 3965

Ion	Exp%	Act%
56.10	100.00	100.00
43.10	42.60	54.63
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

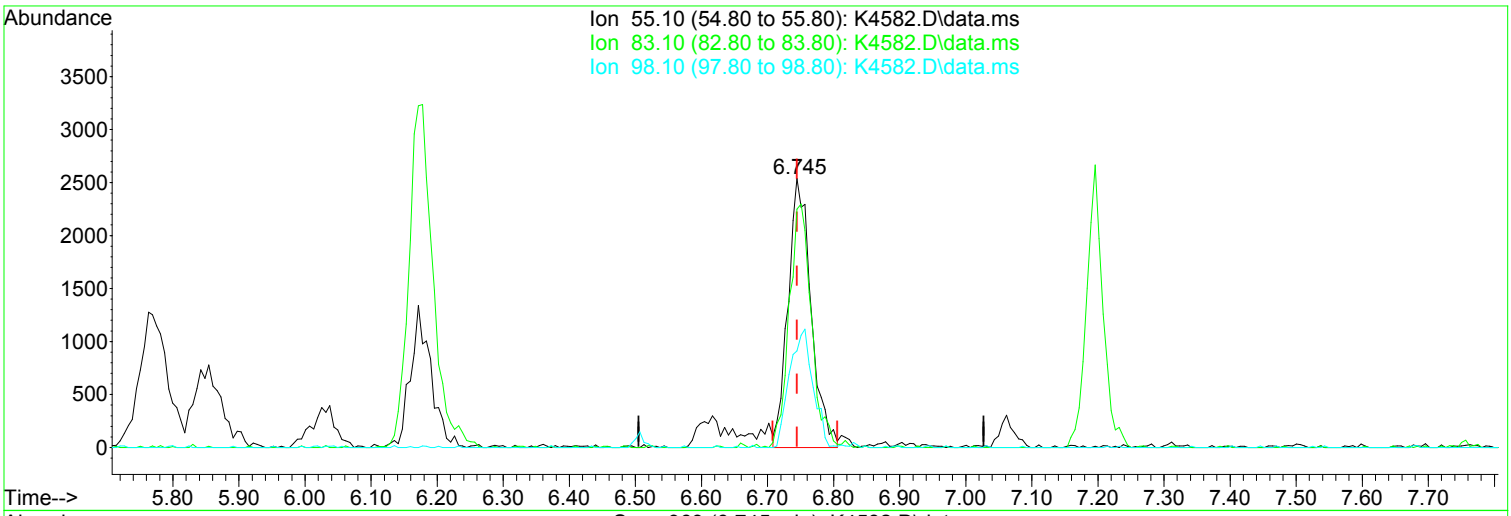
Before

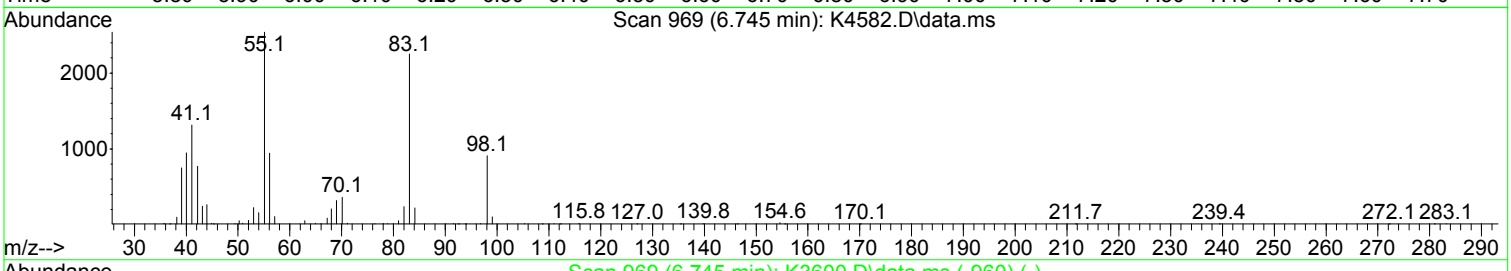
07/31/24

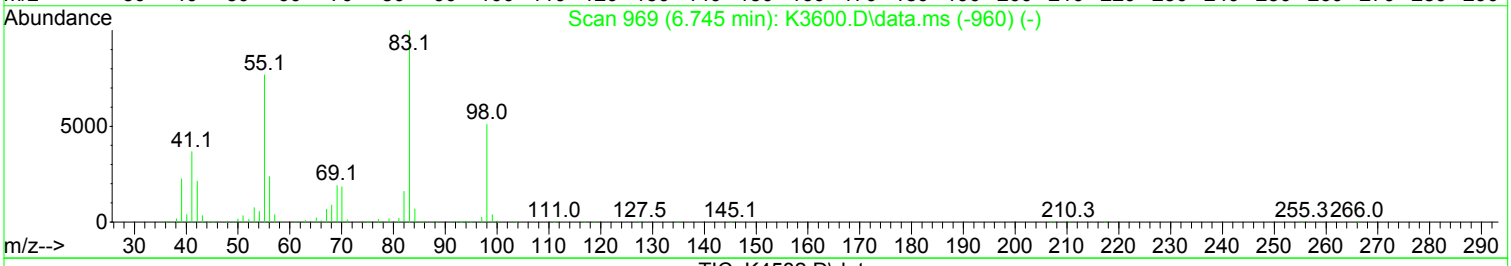
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(54) Methylcyclohexane (P)

6.745min (-0.000) 1.14 ug/L m

response 6147

Ion	Exp%	Act%
55.10	100.00	100.00
83.10	129.30	88.65#
98.10	65.80	35.89#
0.00	0.00	0.00

Manual Integration:

After

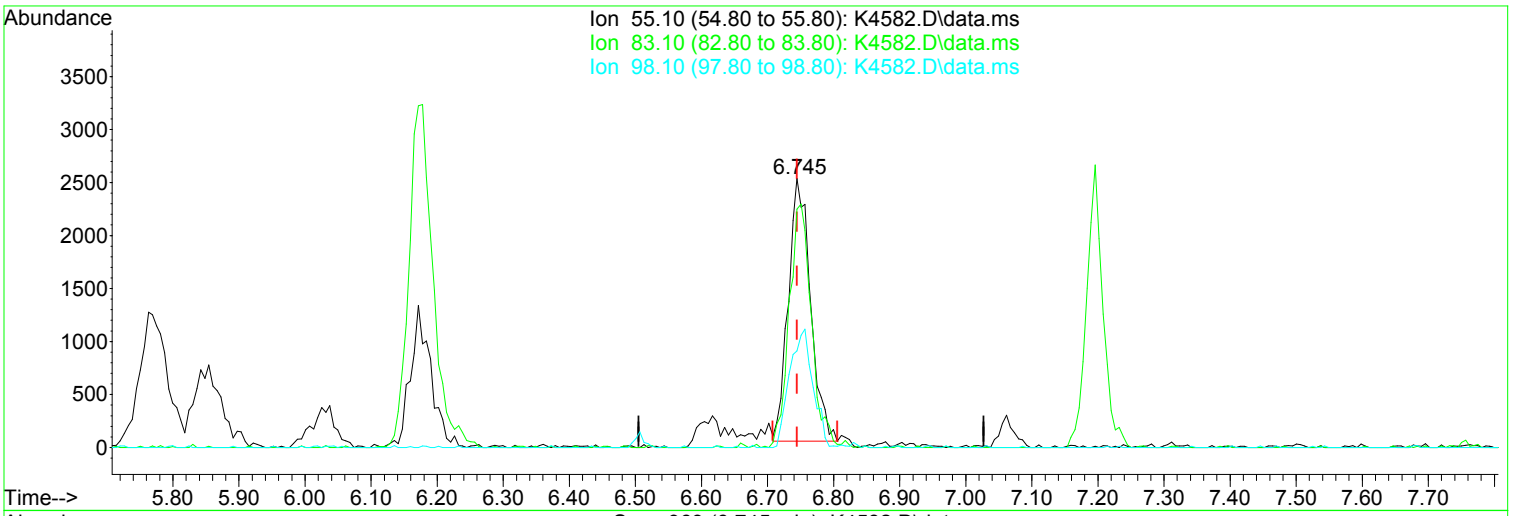
Poor integration.

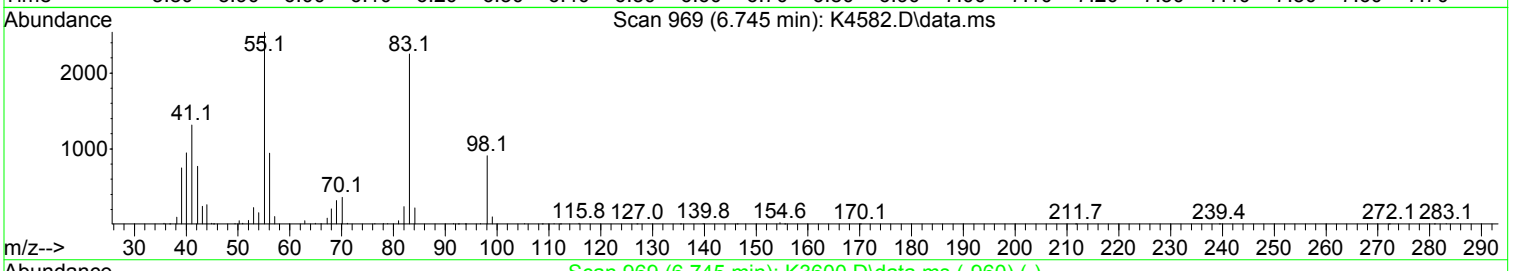
07/31/24

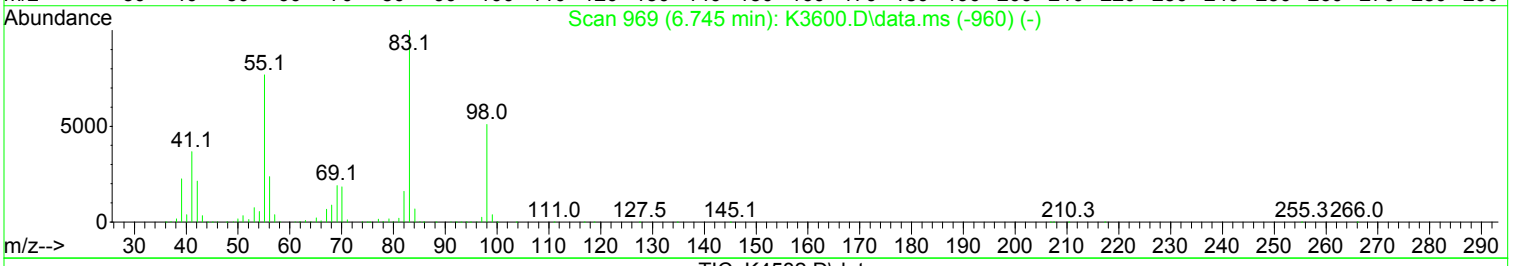
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(54) Methylcyclohexane (P)

6.745min (-0.000) 1.08 ug/L

response 5790

Ion	Exp%	Act%
55.10	100.00	100.00
83.10	129.30	88.65#
98.10	65.80	35.89#
0.00	0.00	0.00

Manual Integration:

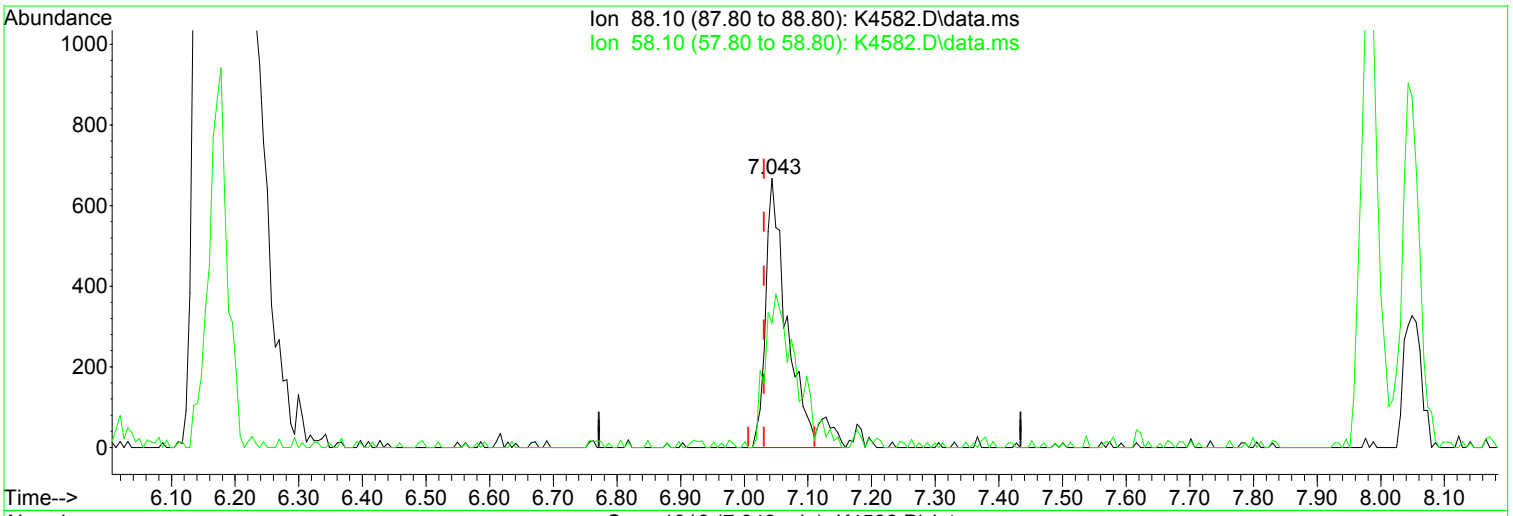
Before

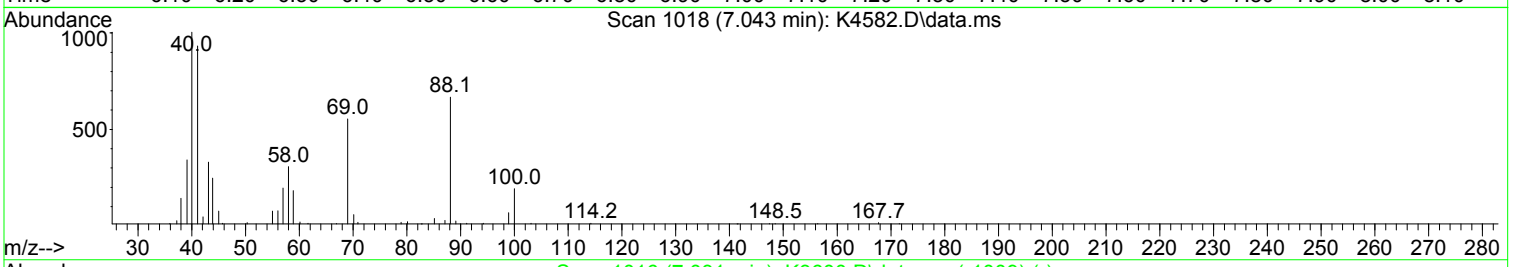
07/31/24

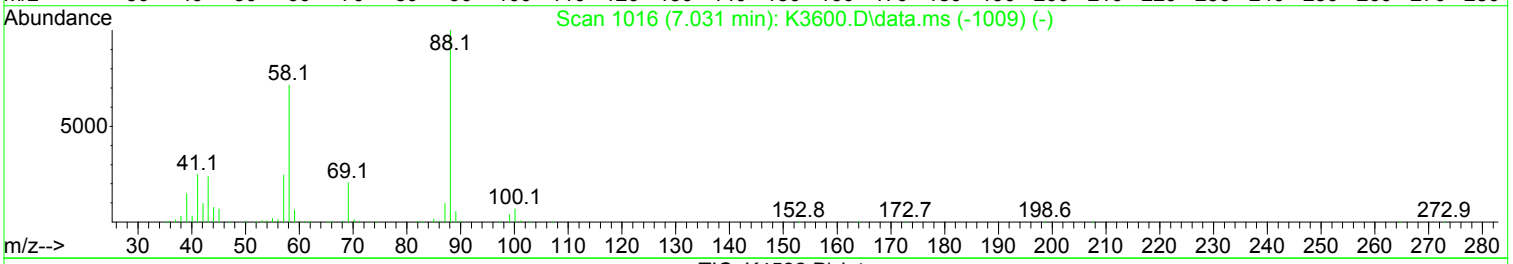
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(57) 1,4-Dioxane

7.043min (+ 0.012) 19.96 ug/L m

response 1641

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	71.50	46.03#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

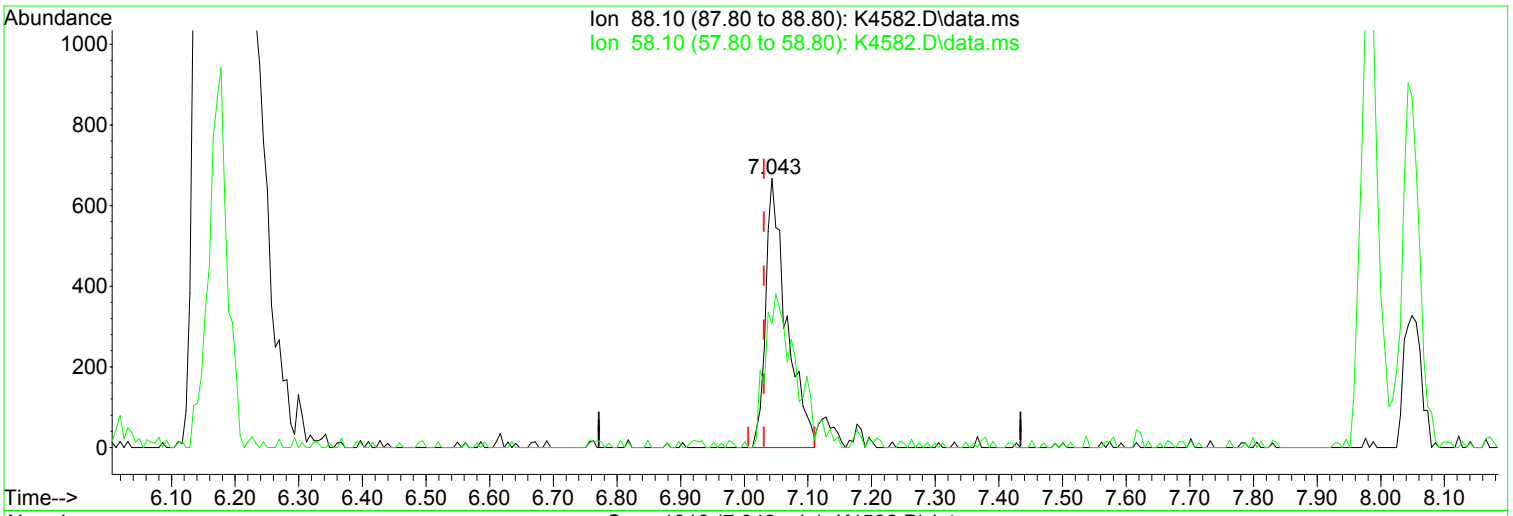
Poor integration.

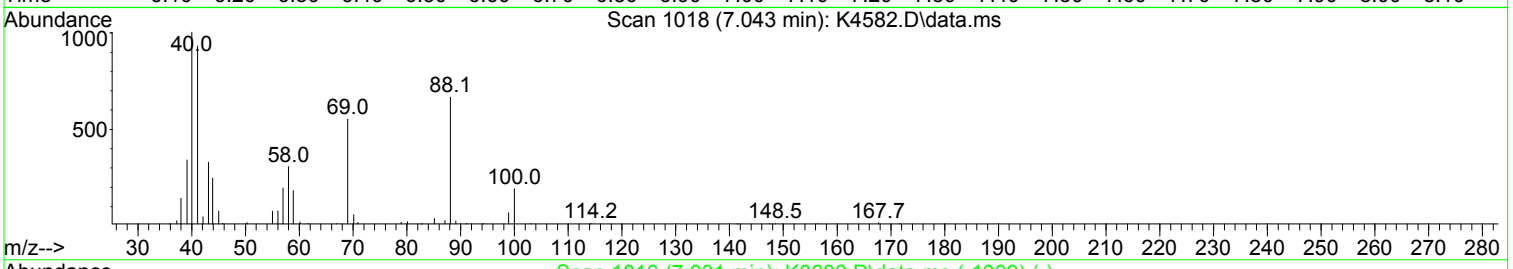
07/31/24

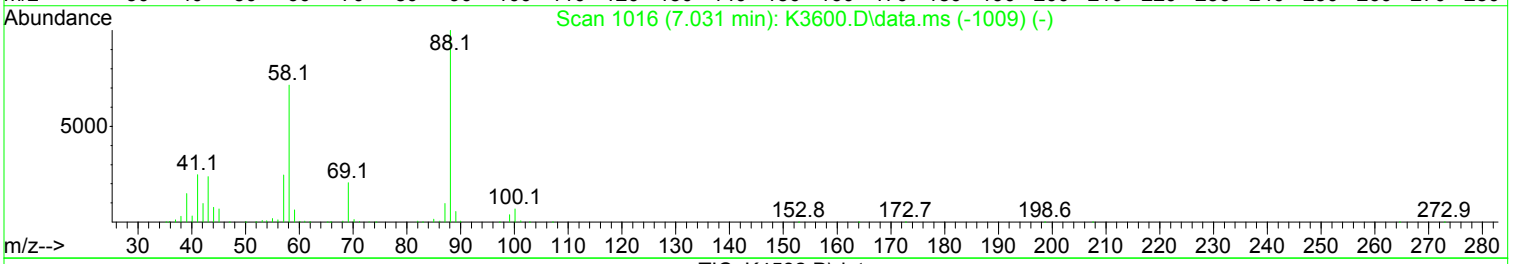
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(57) 1,4-Dioxane

7.043min (+ 0.012) 18.40 ug/L

response 1513

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	71.50	46.03#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

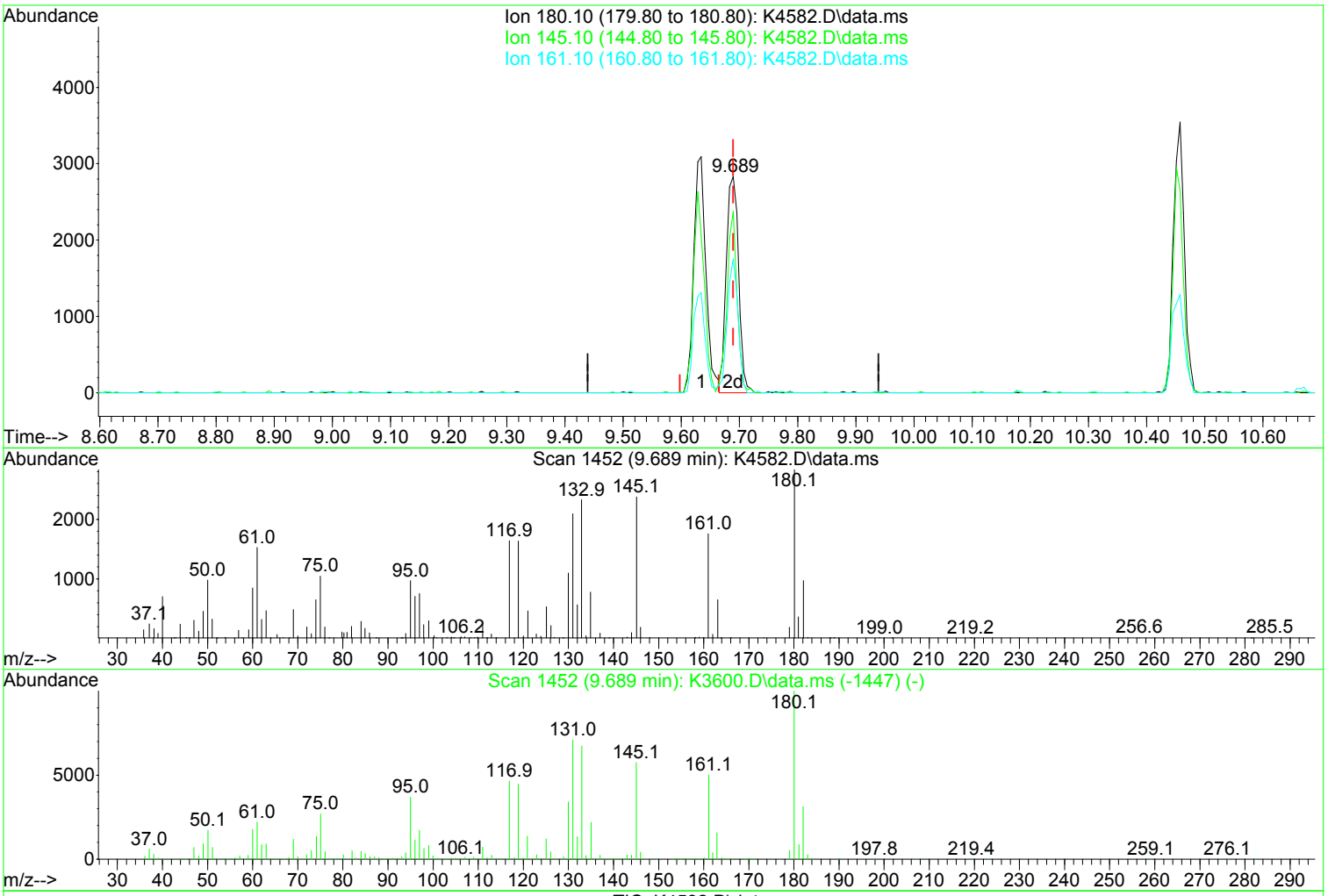
Before

07/31/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



TIC: K4582.D\data.ms

(79) 4-Chlorobenzotrifluoride

9.689min (-0.000) 1.04 ug/L m

response 4161

Ion	Exp%	Act%
180.10	100.00	100.00
145.10	57.50	83.90#
161.10	49.80	62.01
0.00	0.00	0.00

Manual Integration:

After

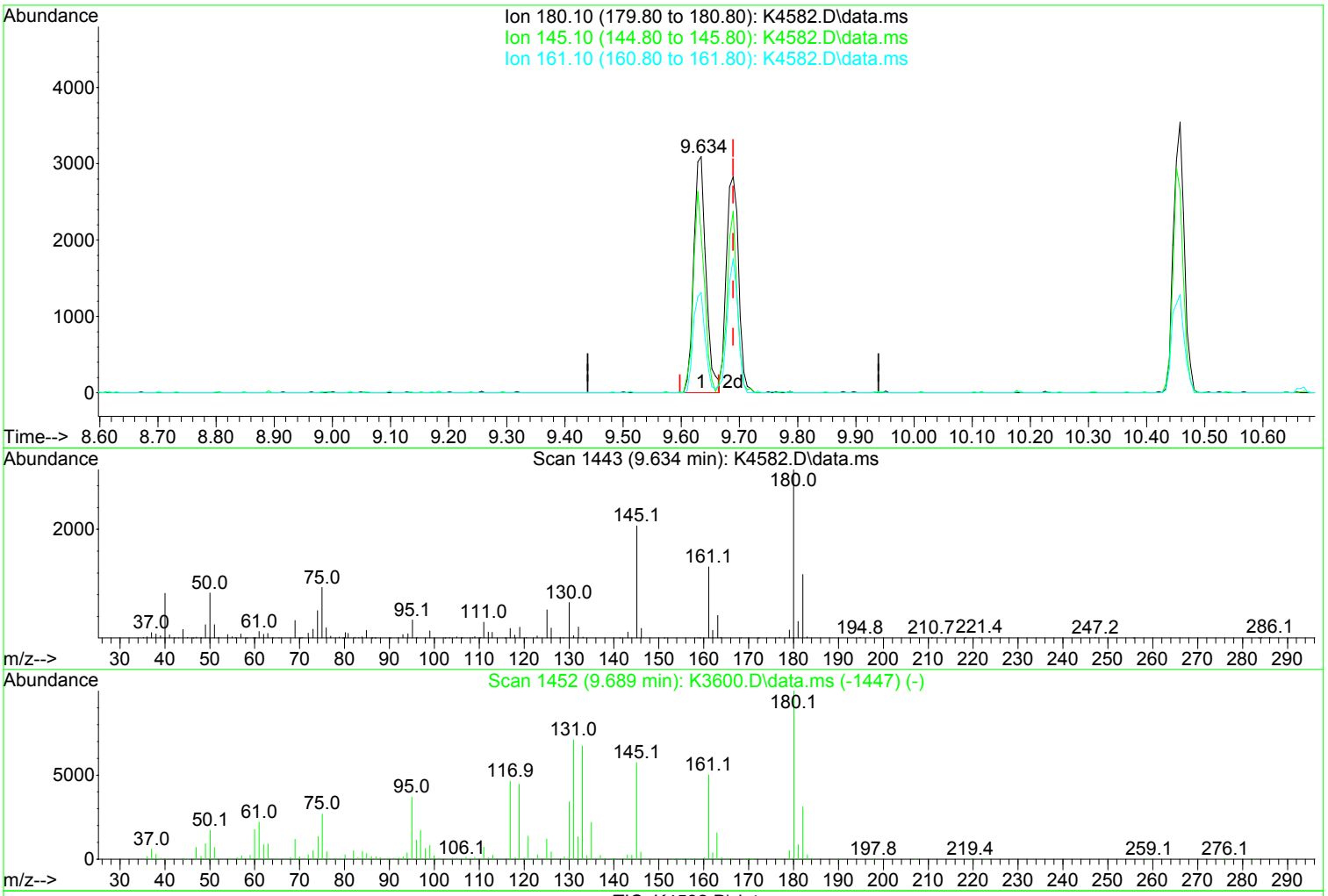
Wrong peak selected.

07/31/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



TIC: K4582.D\data.ms

(79) 4-Chlorobenzotrifluoride

9.634min (-0.055) 1.14 ug/L

response 4541

Ion	Exp%	Act%
180.10	100.00	100.00
145.10	57.50	66.72
161.10	49.80	42.43
0.00	0.00	0.00

Manual Integration:

Before

07/31/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.995	168	358443	50.00	ug/L		0.00
42) 1,4-Difluorobenzene	6.171	114	600446	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.573	117	531109	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	235078	50.00	ug/L		0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.830	113	38822	10.36	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 20.72%#				
47) surr1,1,2-dichloroetha...	5.416	65	57157	11.16	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 22.32%#				
64) SURR3,Toluene-d8	8.049	98	151165	11.00	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 22.00%#				
69) SURR2,BFB	10.665	95	58256	10.78	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 21.56%#				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.087	51	4930	1.011	ug/L		94
3) Dichlorodifluoromethane	1.075	85	4359m	1.041	ug/L		
4) Chloromethane	1.209	50	4963m	1.055	ug/L		
5) Vinyl Chloride	1.264	62	5249m	1.082	ug/L		
6) Bromomethane	1.477	94	2656	1.373	ug/L		92
7) Chloroethane	1.538	64	3391	1.103	ug/L		88
8) Freon 21	1.678	67	6652	1.017	ug/L		97
9) Trichlorofluoromethane	1.721	101	5517	1.022	ug/L		90
10) Diethyl Ether	1.928	59	4131	1.064	ug/L	#	79
11) Freon 123a	1.941	67	3857	1.002	ug/L		84
12) Freon 123	1.989	83	4518m	1.029	ug/L		
13) Acrolein	2.032	56	2555	4.512	ug/L		80
14) 1,1-Diclethene	2.105	96	3006	0.989	ug/L	#	82
15) Freon 113	2.111	101	3283	1.051	ug/L		93
16) Acetone	2.154	43	4157	1.449	ug/L		89
17) 2-Propanol	2.282	45	10031	17.729	ug/L		93
18) Iodomethane	2.221	142	4225	0.892	ug/L		100
19) Carbon Disulfide	2.276	76	6816	0.911	ug/L		98
20) Acetonitrile/Allyl Chl...	2.410	41	9474	6.276	ug/L		75
21) Methyl Acetate	2.440	43	5623	1.123	ug/L		89
22) Methylene Chloride	2.520	84	5905	1.315	ug/L	#	58
23) TBA	2.648	59	18737	17.866	ug/L		87
24) Acrylonitrile	2.764	53	13425	5.126	ug/L		94
25) Methyl-t-Butyl Ether	2.800	73	12675m	1.101	ug/L		
26) trans-1,2-Dichloroethene	2.782	96	3686	1.106	ug/L		93
27) 1,1-Diclethane	3.245	63	6812	0.991	ug/L		97
28) Vinyl Acetate	3.349	86	439m	0.654	ug/L		
29) DIPE	3.361	45	12620	1.040	ug/L		77
30) 2-Chloro-1,3-Butadiene	3.361	53	6792m	0.976	ug/L		
31) ETBE	3.849	59	13472	1.048	ug/L		89
32) 2,2-Dichloropropane	4.013	77	3979	0.920	ug/L		78
33) cis-1,2-Dichloroethene	4.026	96	4111	1.076	ug/L		86
34) 2-Butanone	4.086	43	3363	0.982	ug/L		84
35) Propionitrile	4.166	54	5784	4.945	ug/L		93
36) Bromochloromethane	4.379	130	2613	1.032	ug/L	#	37
37) Methacrylonitrile	4.397	67	2043m	0.937	ug/L		
38) Tetrahydrofuran	4.501	42	2378	1.089	ug/L		78
39) Chloroform	4.550	83	6901	1.080	ug/L		96
40) 1,1,1-Trichloroethane	4.836	97	5666m	1.105	ug/L		

1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) TAME	5.763	73	10487m	1.058	ug/L		
43) Cyclohexane	4.922	41	4104	1.161	ug/L		73
45) Carbontetrachloride	5.135	117	5237m	1.097	ug/L		
46) 1,1-Dichloropropene	5.147	75	4970	1.127	ug/L		86
48) Benzene	5.495	78	13557m	1.062	ug/L		
49) 1,2-Dichloroethane	5.550	62	6984	1.091	ug/L		96
50) Iso-Butyl Alcohol	5.592	43	4548m	14.752	ug/L		
51) n-Heptane	6.025	43	4799	0.998	ug/L	#	65
52) 1-Butanol	6.610	56	5818m	28.793	ug/L		
53) Trichloroethene	6.507	130	4003	1.051	ug/L		88
54) Methylcyclohexane	6.745	55	6147m	1.144	ug/L		
55) 1,2-Diclpropane	6.806	63	4372	1.125	ug/L		83
56) Dibromomethane	6.952	93	2571	1.055	ug/L		90
57) 1,4-Dioxane	7.043	88	1641m	19.959	ug/L		
58) Methyl Methacrylate	7.068	69	3318	1.021	ug/L	#	67
59) Bromodichloromethane	7.196	83	4603	1.005	ug/L		96
60) 2-Nitropropane	7.500	41	2583	1.578	ug/L		88
61) 2-Chloroethylvinyl Ether	7.622	63	1326	1.056	ug/L		74
62) cis-1,3-Dichloropropene	7.750	75	5069	0.972	ug/L		95
63) 4-Methyl-2-pentanone	7.982	43	5903	0.969	ug/L		83
65) Toluene	8.122	91	16240	1.114	ug/L		95
66) trans-1,3-Dichloropropene	8.415	75	4476	0.893	ug/L		93
67) Ethyl Methacrylate	8.567	69	5504	0.981	ug/L	#	63
68) 1,1,2-Trichloroethane	8.598	97	3862	1.099	ug/L		97
71) Tetrachloroethene	8.726	164	2848	1.087	ug/L		93
72) 2-Hexanone	8.915	43	4390	0.938	ug/L		78
73) 1,3-Dichloropropane	8.775	76	6331	1.105	ug/L	#	66
74) Dibromochloromethane	9.000	129	3441	0.930	ug/L		97
75) N-Butyl Acetate	9.073	43	8805	0.981	ug/L		94
76) 1,2-Dibromoethane	9.098	107	4045	1.067	ug/L		93
77) 3-Chlorobenzotrifluoride	9.634	180	4541	1.052	ug/L	#	93
78) Chlorobenzene	9.598	112	11419	1.147	ug/L		99
79) 4-Chlorobenzotrifluoride	9.689	180	4161m	1.041	ug/L		
80) 1,1,1,2-Tetrachloroethane	9.695	131	3482	0.971	ug/L		90
81) Ethylbenzene	9.726	106	5526	1.104	ug/L		94
82) (m+p)Xylene	9.842	106	13144	2.134	ug/L		96
83) o-Xylene	10.201	106	6308	1.028	ug/L		99
84) Styrene	10.213	104	10004	0.969	ug/L		91
85) Bromoform	10.366	173	1737	0.830	ug/L		97
86) 2-Chlorobenzotrifluoride	10.457	180	4609	1.054	ug/L		98
87) Isopropylbenzene	10.543	105	15995	1.017	ug/L		93
88) Cyclohexanone	10.610	55	21679	18.657	ug/L		95
89) trans-1,4-Dichloro-2-B...	10.860	53	2283	1.029	ug/L	#	72
91) 1,1,2,2-Tetrachloroethane	10.811	83	5428	1.103	ug/L		92
92) Bromobenzene	10.780	156	4273	1.139	ug/L	#	75
93) 1,2,3-Trichloropropane	10.835	110	1973	1.106	ug/L		86
94) n-Propylbenzene	10.896	91	18825	1.105	ug/L		96
95) 2-Chlorotoluene	10.957	91	12158	1.135	ug/L		96
96) 3-Chlorotoluene	11.012	91	12386	1.143	ug/L		99
97) 4-Chlorotoluene	11.055	91	13991	1.135	ug/L		95
98) 1,3,5-Trimethylbenzene	11.055	105	14229	1.103	ug/L		98
99) tert-Butylbenzene	11.323	119	12111	1.100	ug/L		99
100) 1,2,4-Trimethylbenzene	11.366	105	14131	1.080	ug/L		96
101) 3,4-Dichlorobenzotrifl...	11.433	214	3202	1.127	ug/L		90
102) sec-Butylbenzene	11.512	105	16514	1.071	ug/L		98
103) p-Isopropyltoluene	11.634	119	14786	1.091	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

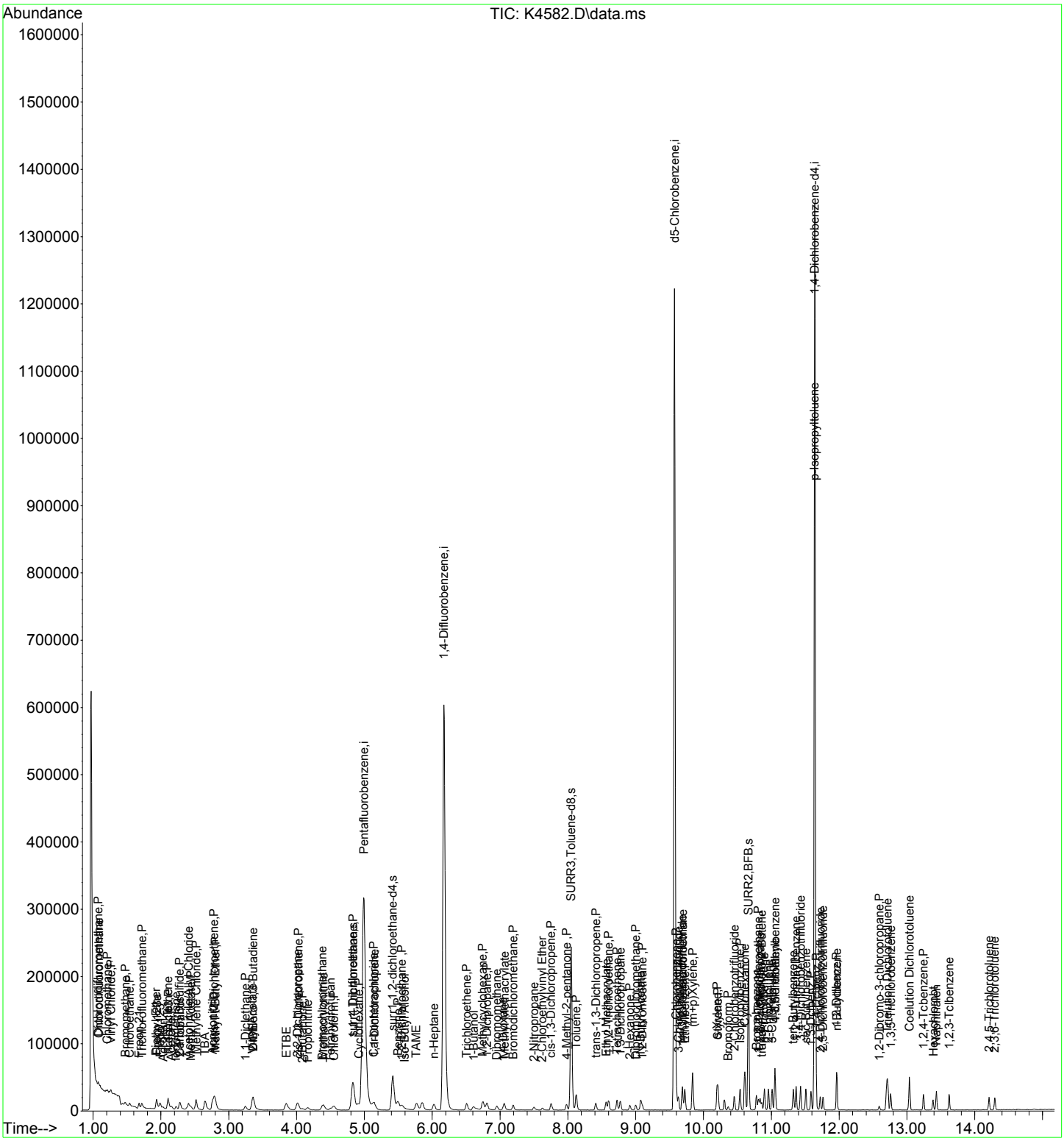
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
104) 1,3-Dclbenz	11.585	146	8052	1.121	ug/L		92
105) 1,4-Dclbenz	11.664	146	8259	1.139	ug/L		98
106) 2,4-Dichlorobenzotrifl...	11.725	214	2783	1.113	ug/L		91
107) 2,5-Dichlorobenzotrifl...	11.762	214	3167	1.136	ug/L		92
108) n-Butylbenzene	11.969	91	12447	1.054	ug/L		99
109) 1,2-Dclbenz	11.963	146	7835	1.105	ug/L		94
110) 1,2-Dibromo-3-chloropr...	12.591	157	952	0.813	ug/L	#	80
111) Trielution Dichlorotol...	12.713	125	21600	3.232	ug/L		91
112) 1,3,5-Trichlorobenzene	12.762	180	4811	1.038	ug/L		95
113) Coelution Dichlorotoluene	13.036	125	15348	2.135	ug/L		94
114) 1,2,4-Tcbenzene	13.243	180	4739	1.055	ug/L		96
115) Hexachlorobt	13.390	225	1968	1.190	ug/L		93
116) Naphthalen	13.432	128	16597	0.977	ug/L		99
117) 1,2,3-Tclbenzene	13.621	180	4596	1.038	ug/L		92
118) 2,4,5-Trichlorotoluene	14.213	159	3749	1.063	ug/L		94
119) 2,3,6-Trichlorotoluene	14.292	159	3361	1.030	ug/L		89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

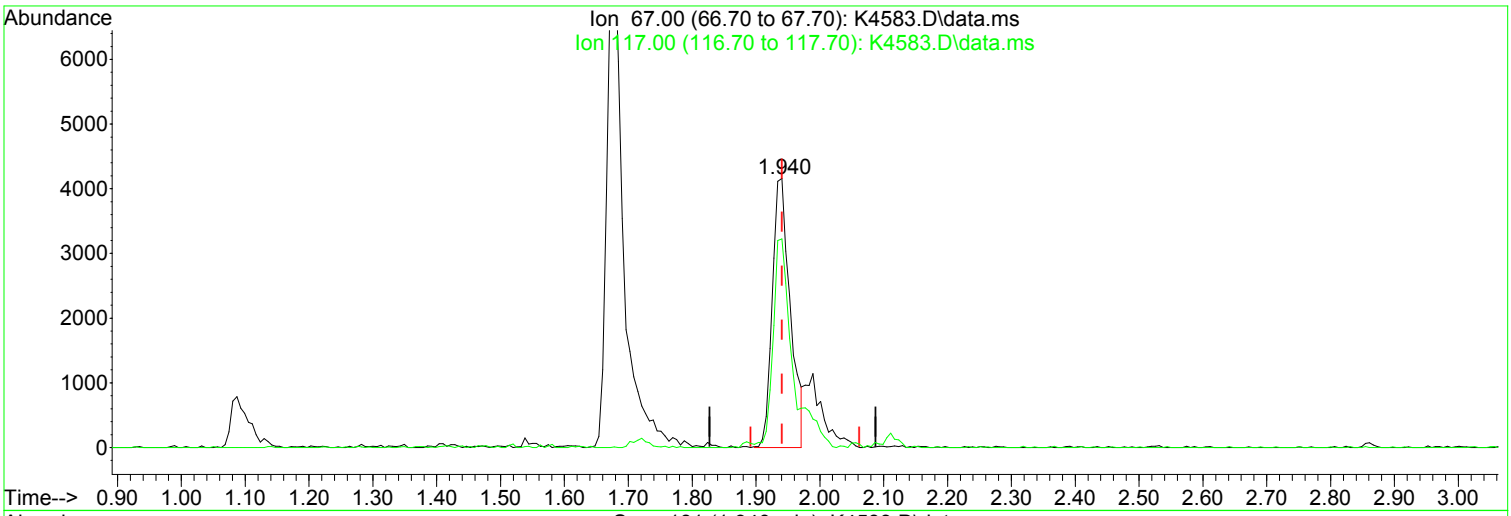
Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

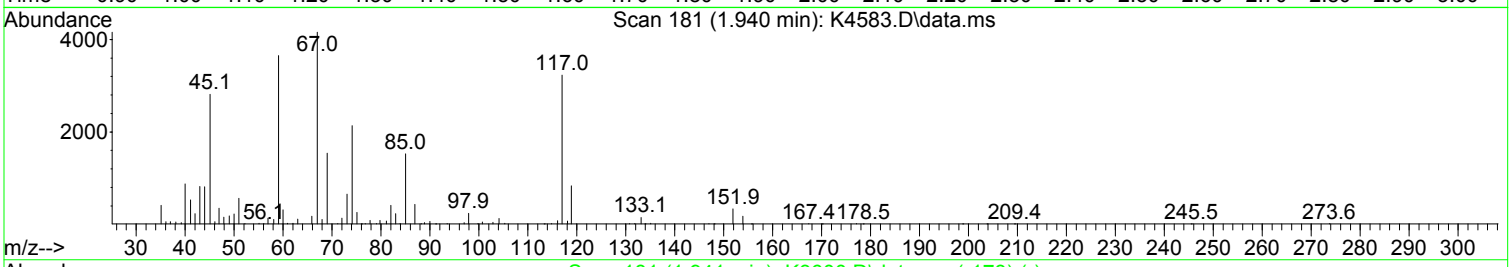


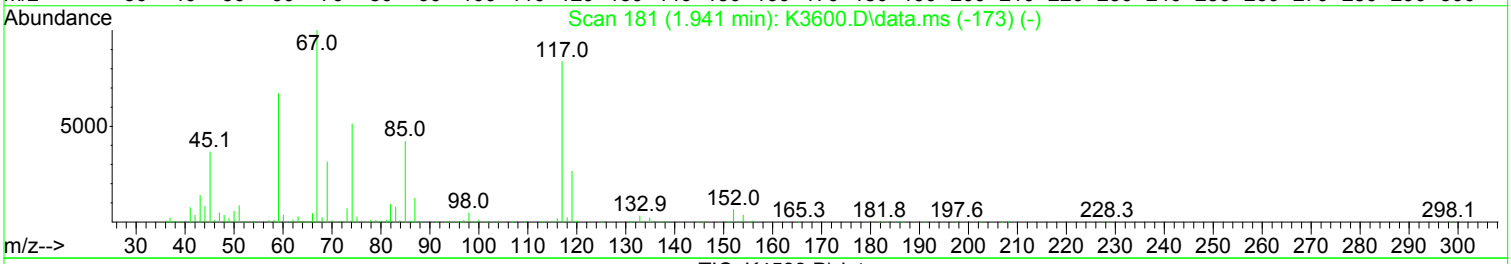
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 19:25:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4583.D\data.ms

(11) Freon 123a

1.940min (-0.000) 2.12 ug/L m

response 8134

Ion	Exp%	Act%
67.00	100.00	100.00
117.00	85.30	77.61
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

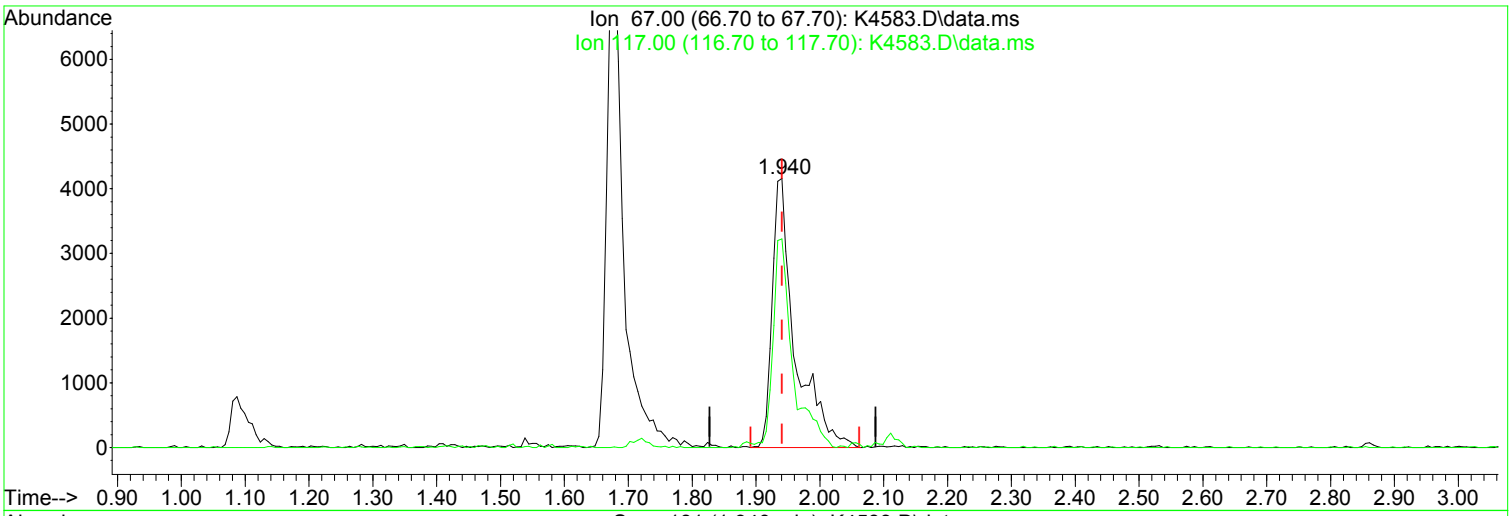
Poor integration.

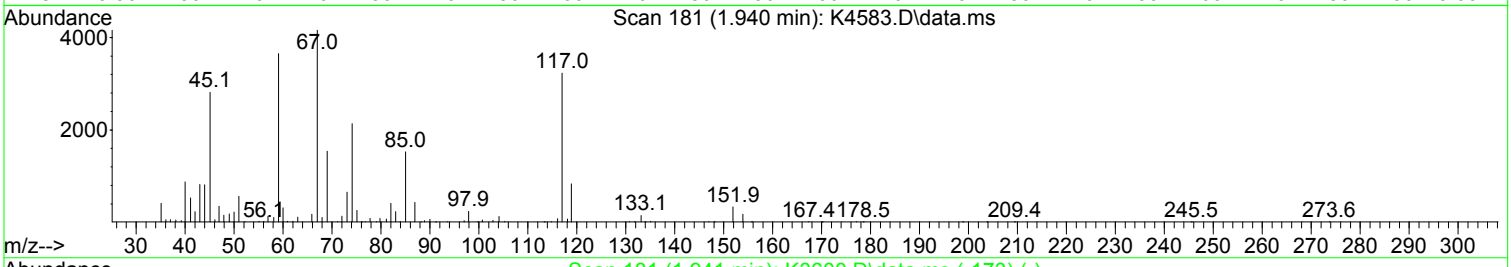
08/01/24

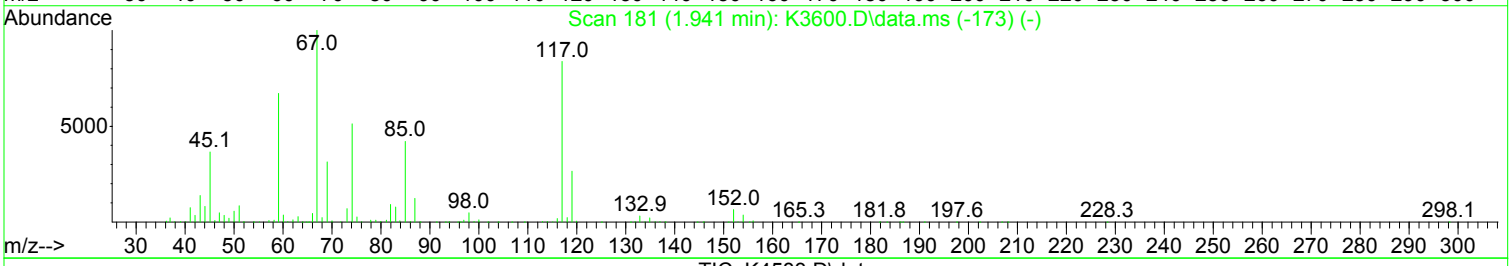
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 19:25:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4583.D\data.ms

(11) Freon 123a

1.940min (-0.000) 2.70 ug/L

response 10347

Ion	Exp%	Act%
67.00	100.00	100.00
117.00	85.30	77.61
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

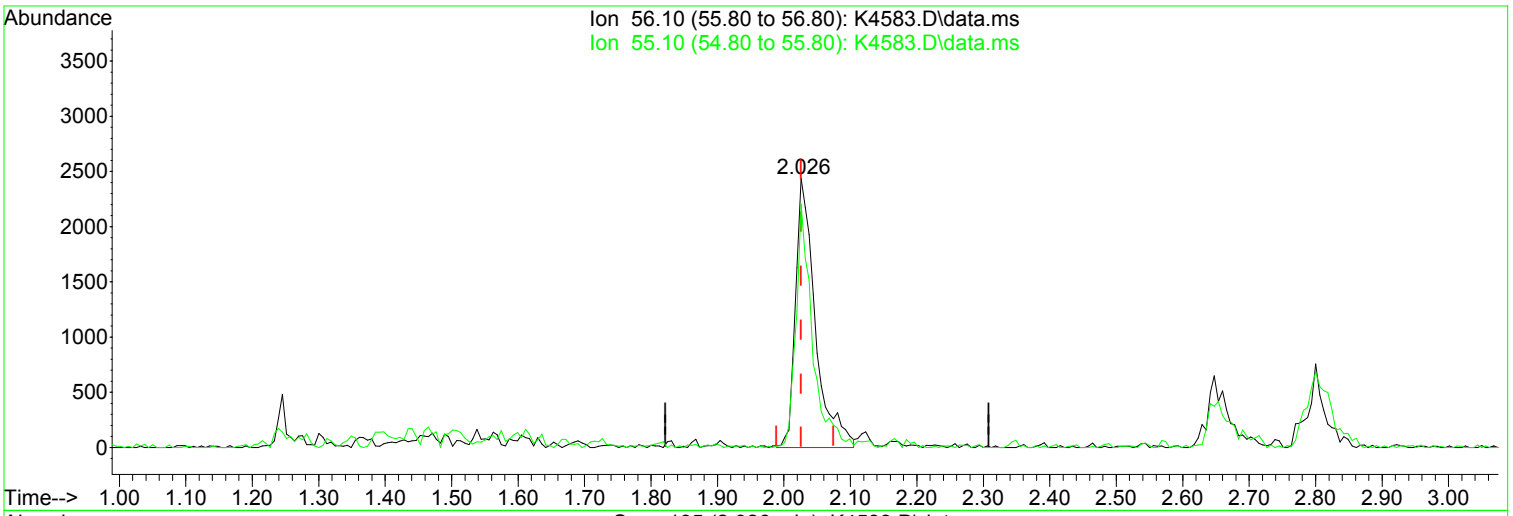
Before

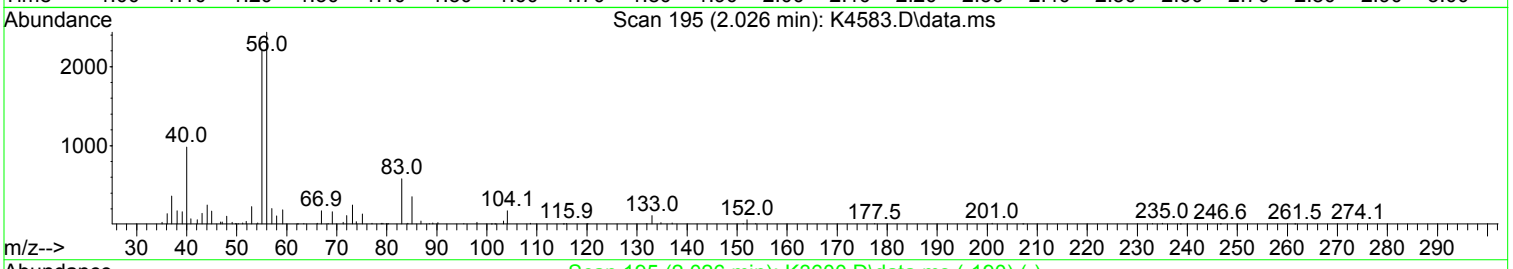
08/01/24

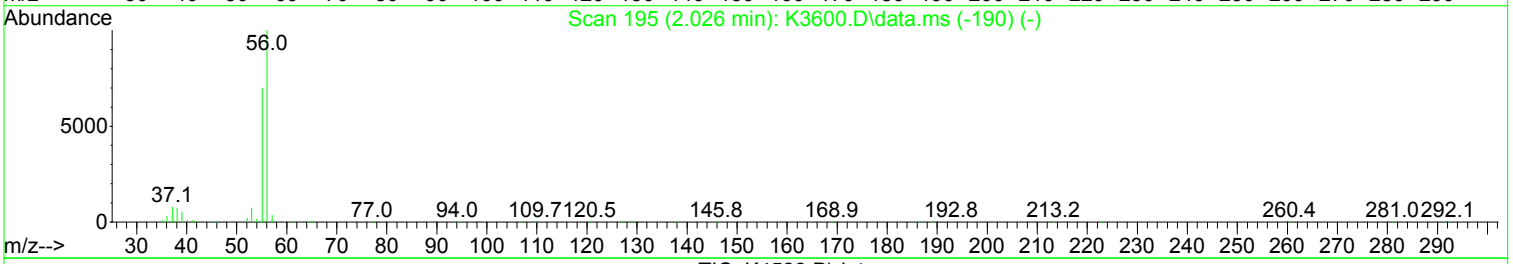
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 19:25:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4583.D\data.ms

(13) Acrolein

2.026min (-0.000) 8.95 ug/L m

response 5055

Ion	Exp%	Act%
56.10	100.00	100.00
55.10	70.10	90.48#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

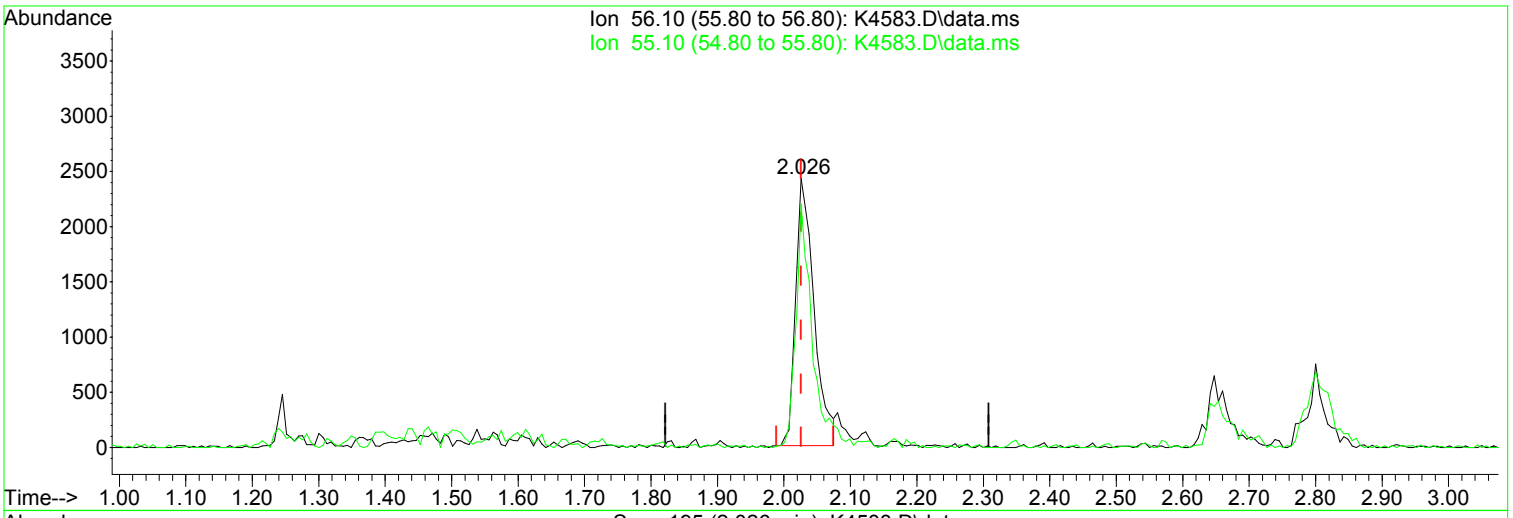
Poor integration.

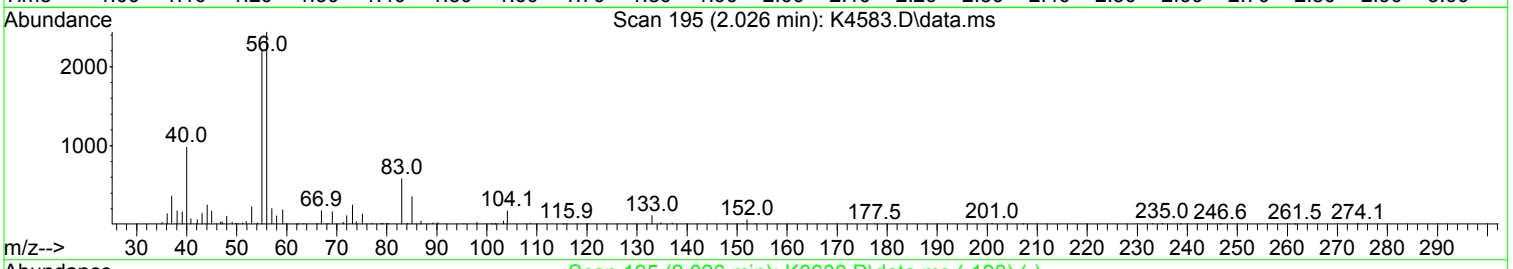
08/01/24

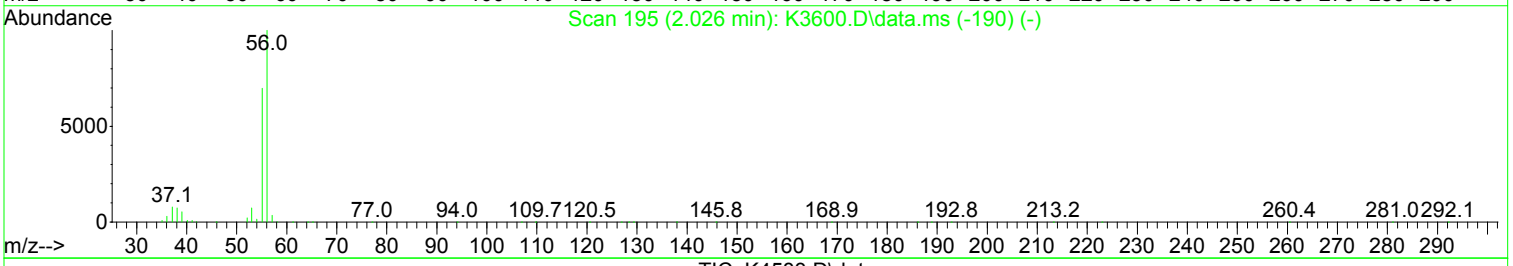
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 19:25:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4583.D\data.ms

(13) Acrolein

2.026min (-0.000) 8.24 ug/L

response 4654

Ion	Exp%	Act%
56.10	100.00	100.00
55.10	70.10	90.48#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

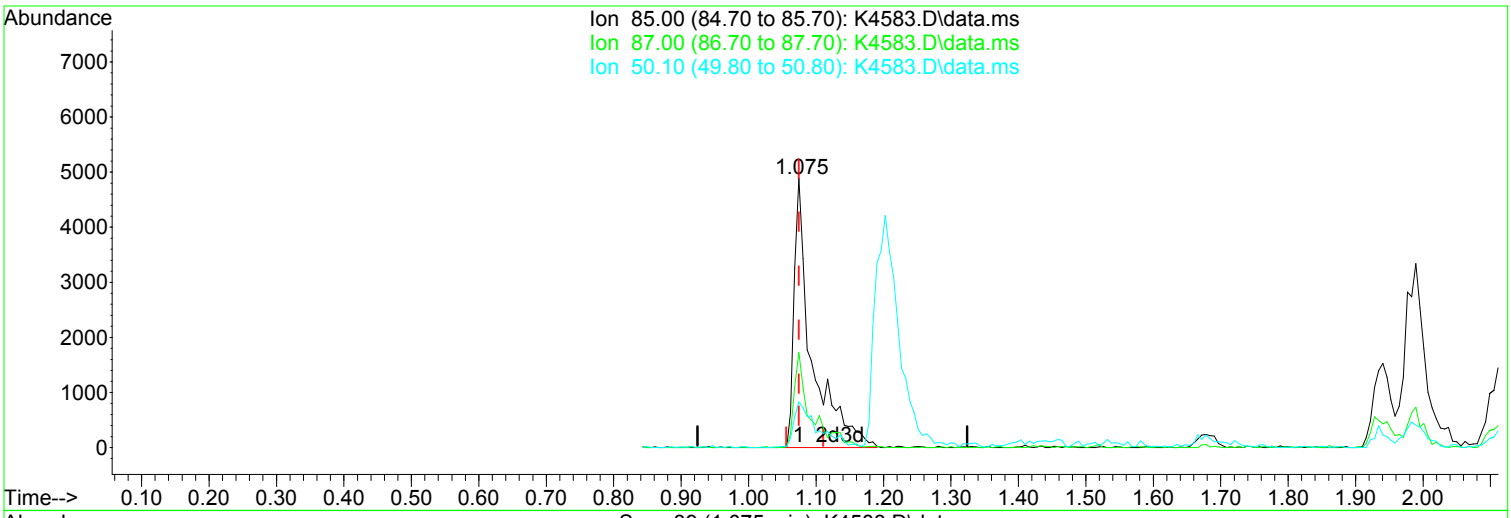
Before

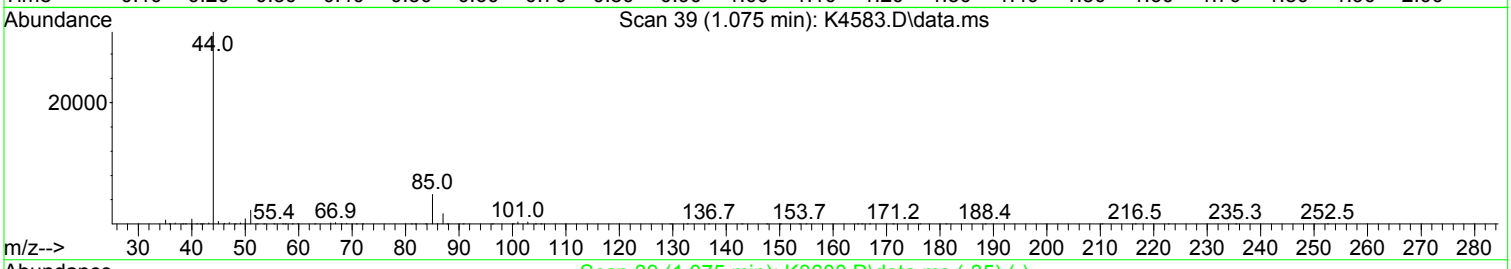
08/01/24

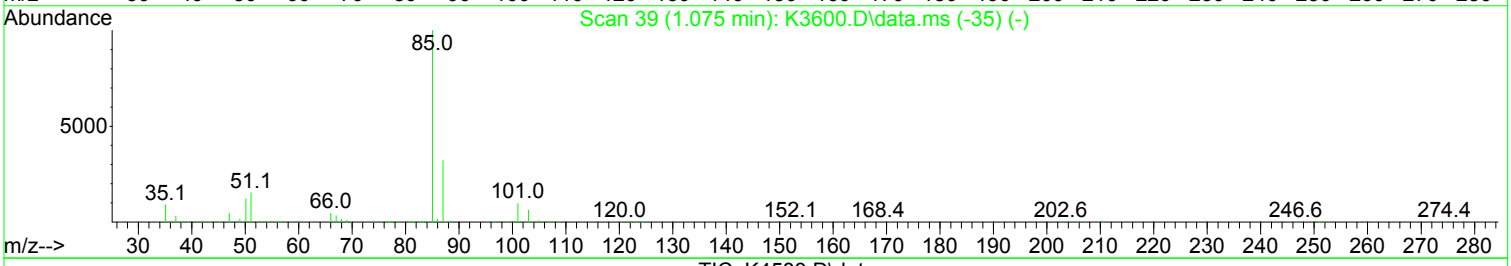
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 19:25:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4583.D\data.ms

(3) Dichlorodifluoromethane (P)

1.075min (-0.000) 2.12 ug/L m

response 8840

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	32.00	35.31
50.10	12.20	17.00
0.00	0.00	0.00

Manual Integration:

After

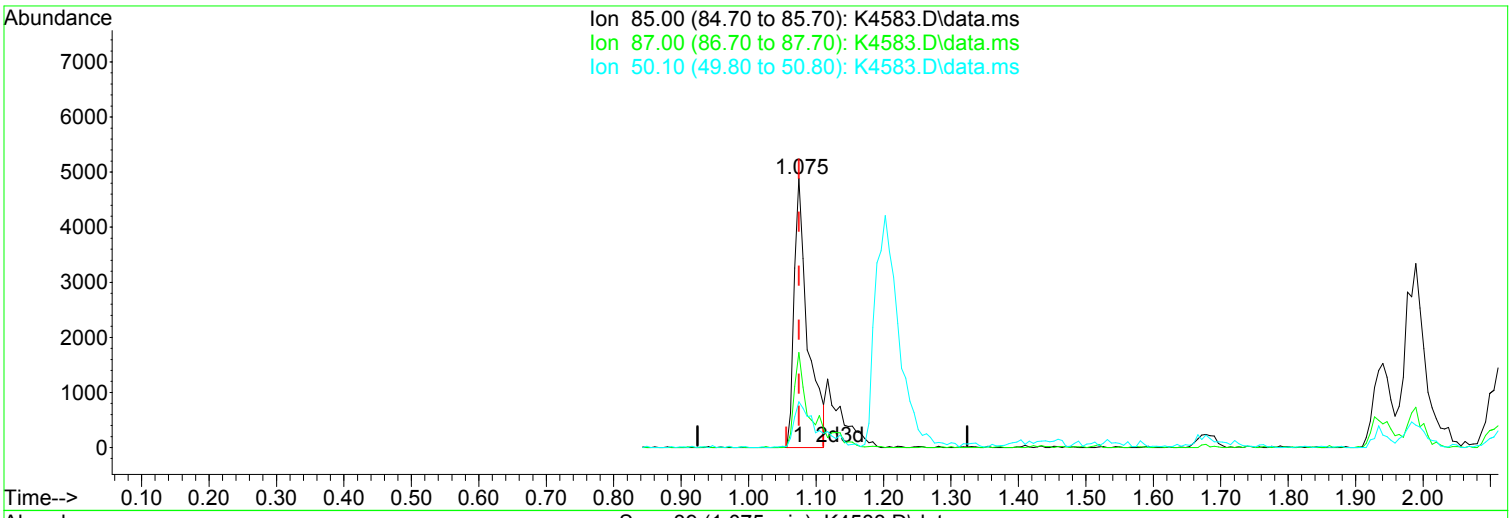
Split Peak.

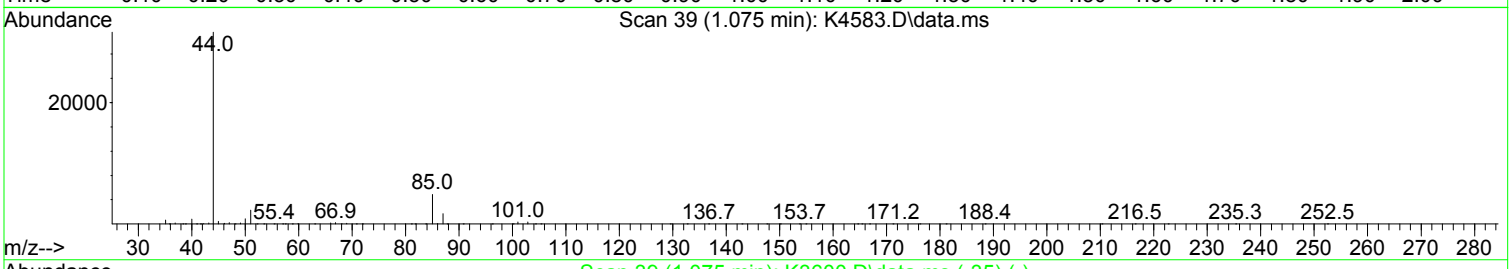
08/01/24

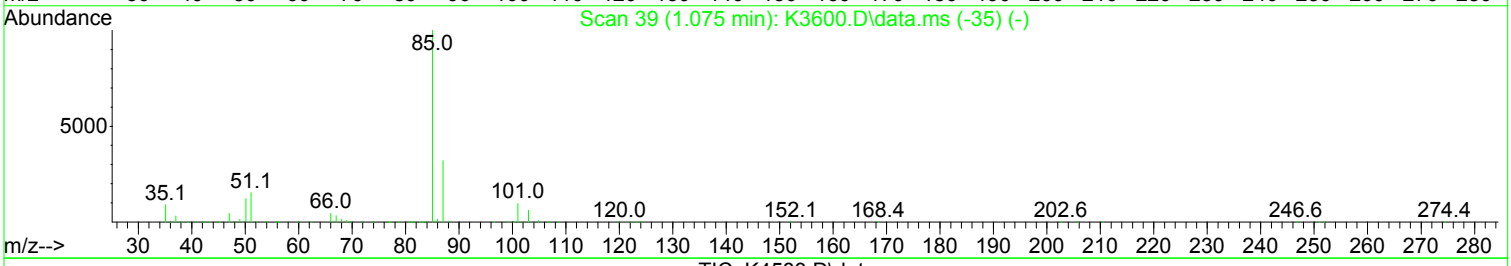
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 19:25:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4583.D\data.ms

(3) Dichlorodifluoromethane (P)

1.075min (-0.000) 1.63 ug/L

response 6816

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	32.00	35.31
50.10	12.20	17.00
0.00	0.00	0.00

Manual Integration:

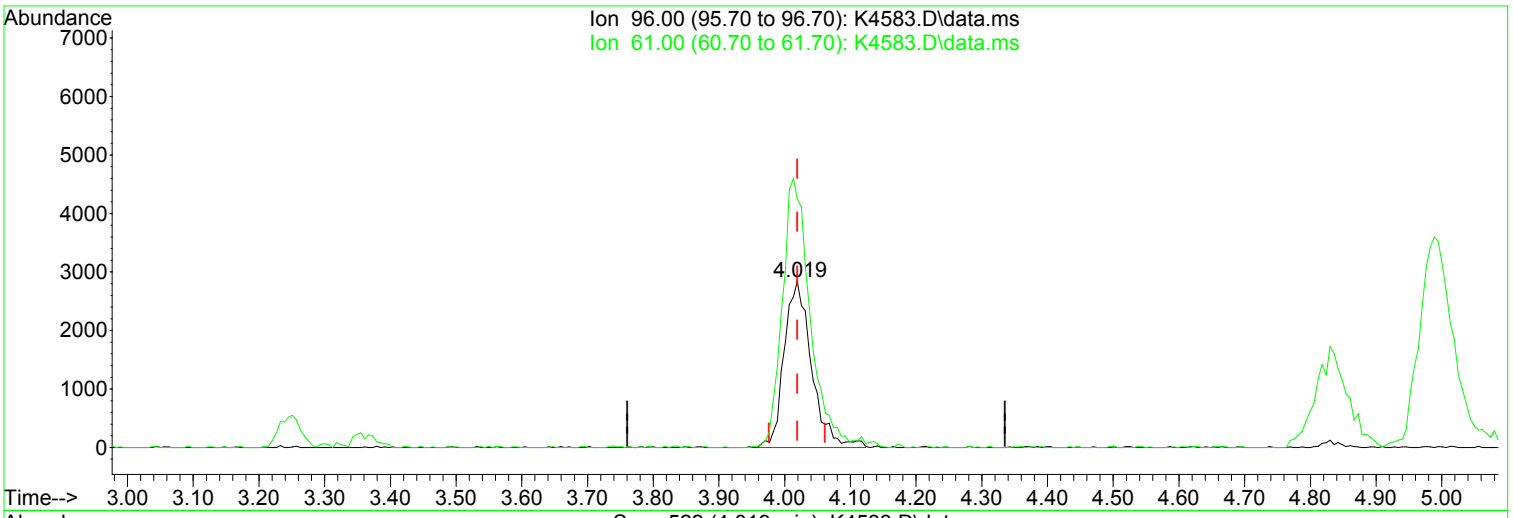
Before

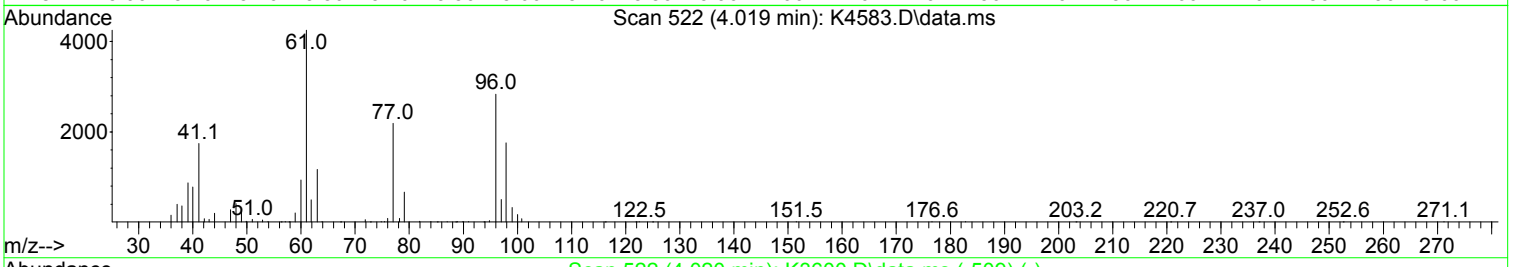
08/01/24

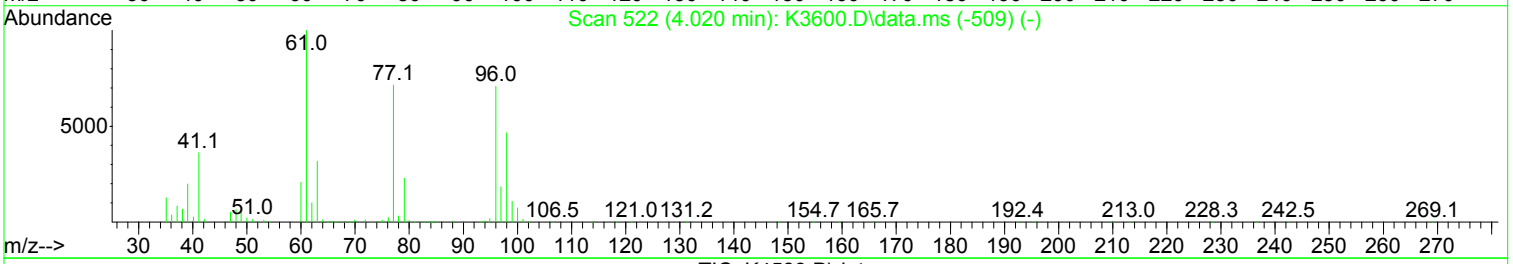
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 19:25:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4583.D\data.ms

(33) cis-1,2-Dichloroethene (P)

4.019min (-0.000) 2.17 ug/L m

response 8258

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	141.20	149.75
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

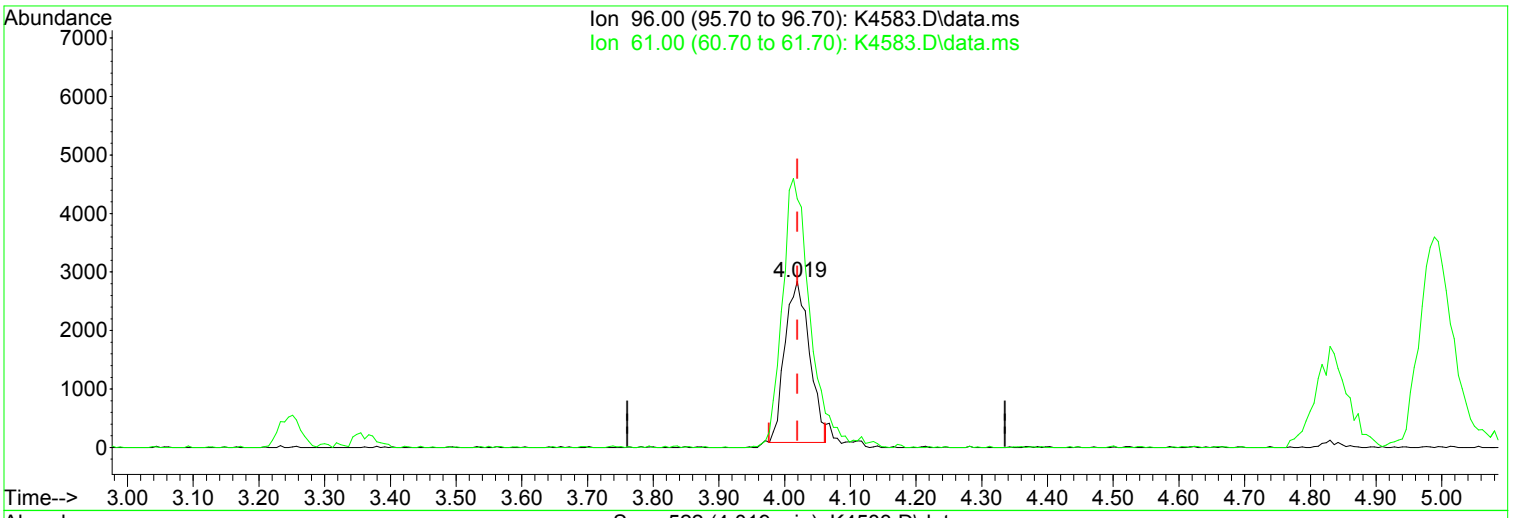
Poor integration.

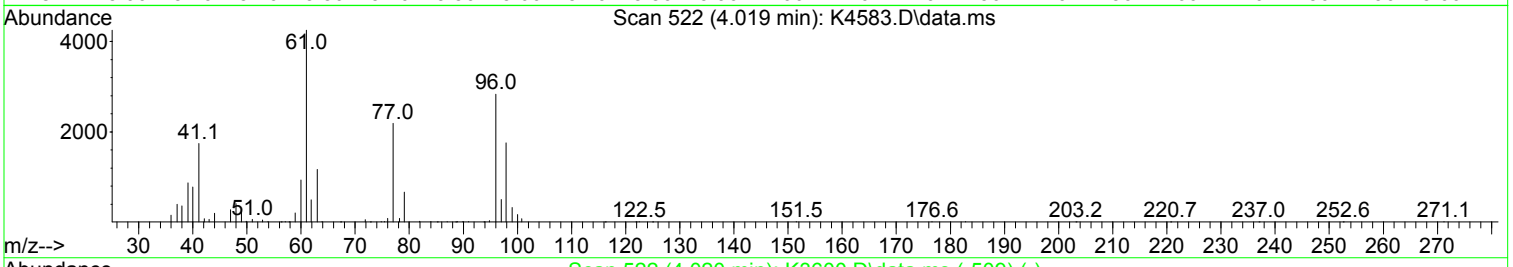
08/01/24

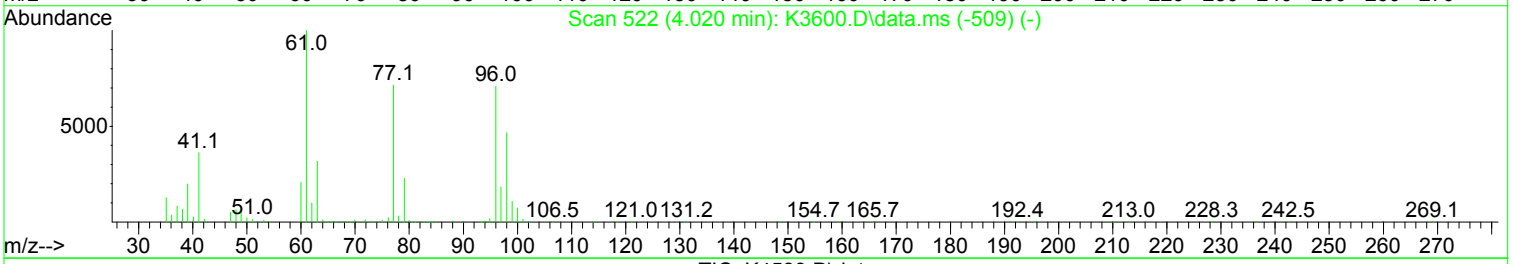
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 19:25:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4583.D\data.ms

(33) cis-1,2-Dichloroethene (P)

4.019min (-0.000) 1.90 ug/L

response 7226

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	141.20	149.75
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

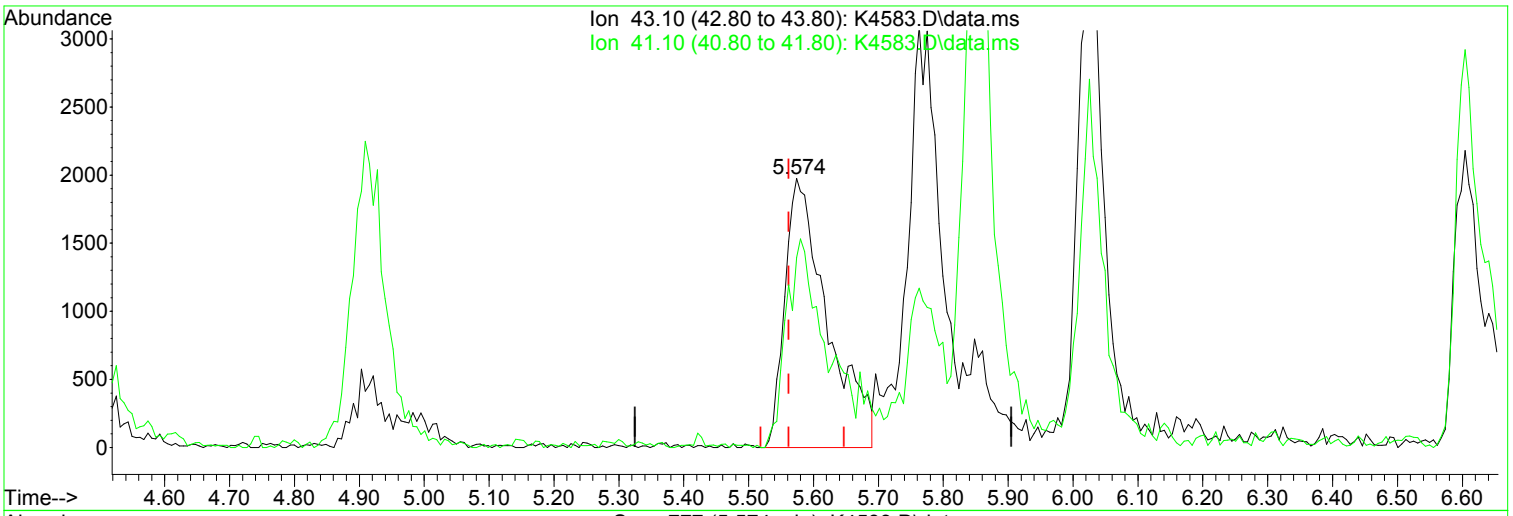
Before

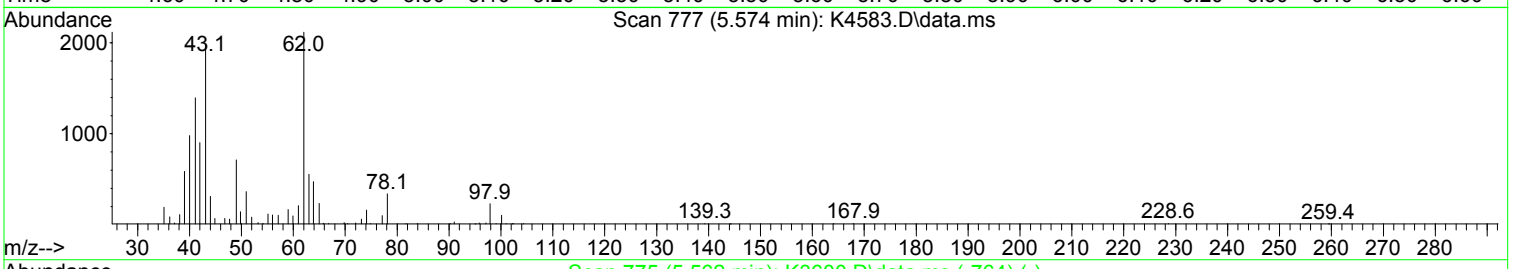
08/01/24

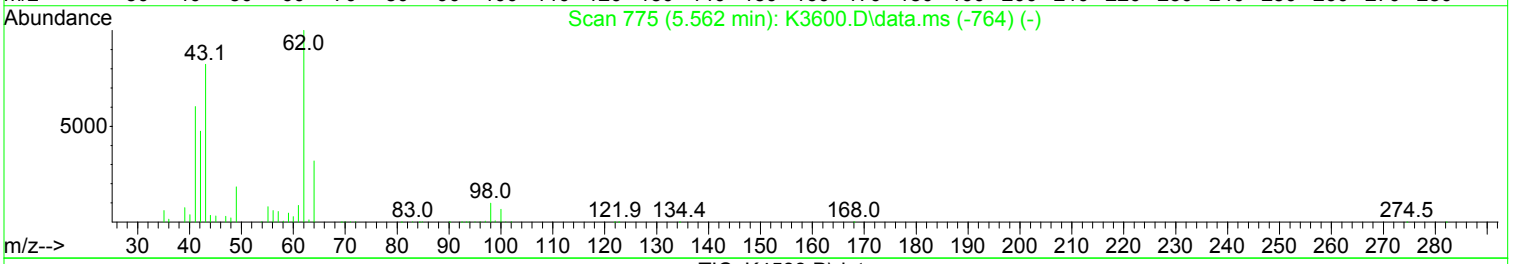
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 19:25:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4583.D\data.ms

(50) Iso-Butyl Alcohol

5.574min (+ 0.012) 28.62 ug/L m

response 8985

Ion	Exp%	Act%
43.10	100.00	100.00
41.10	73.40	70.58
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

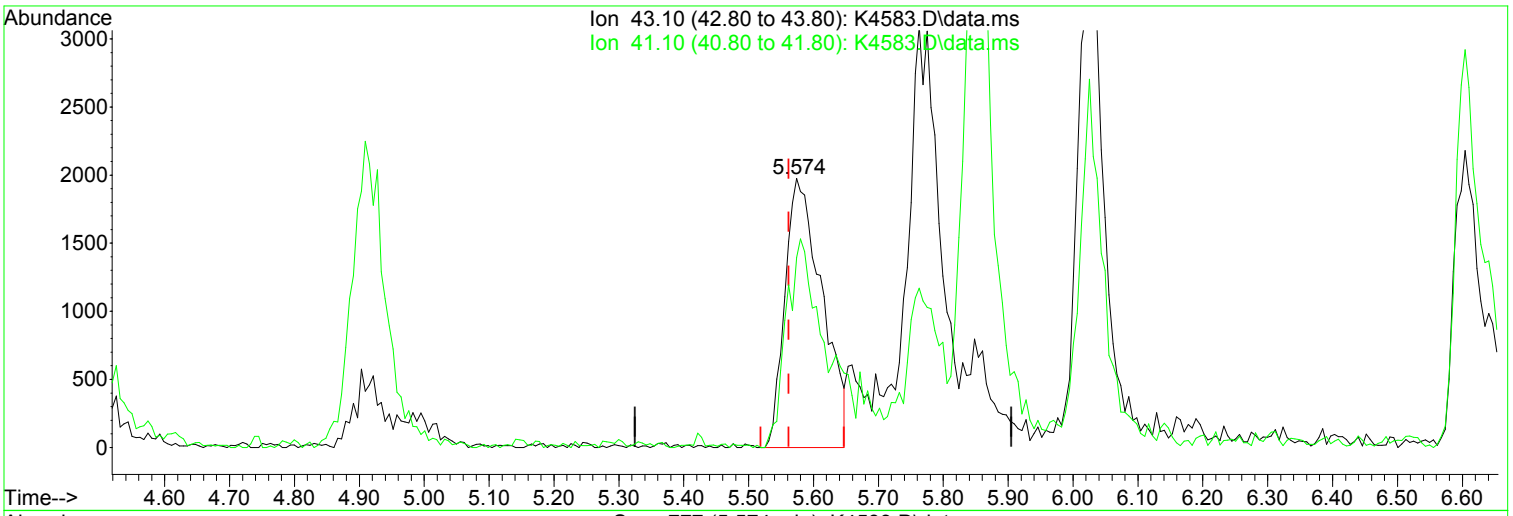
Poor integration.

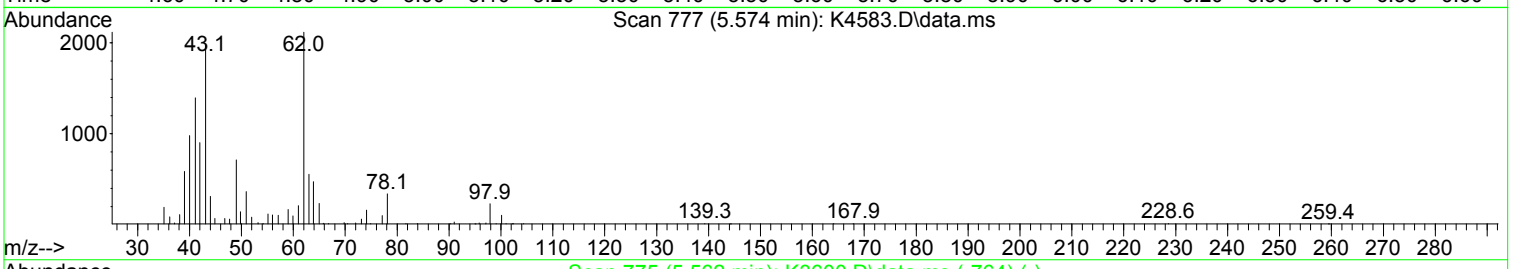
08/01/24

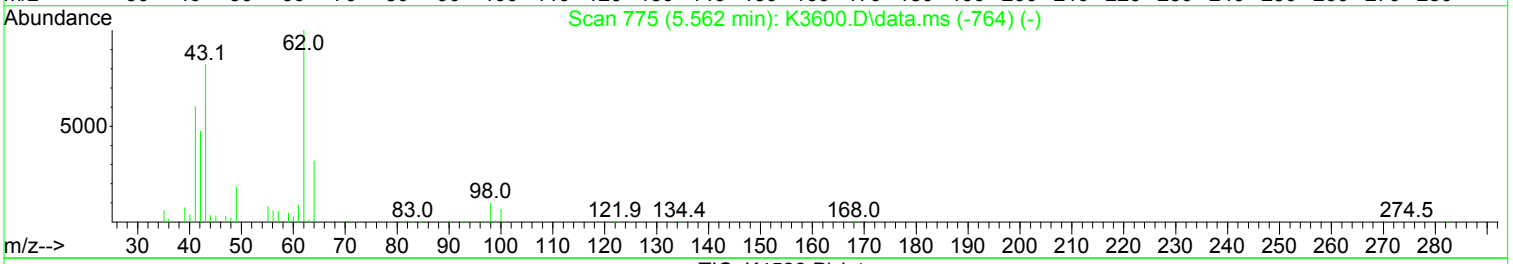
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 19:25:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4583.D\data.ms

(50) Iso-Butyl Alcohol

5.574min (+ 0.012) 24.94 ug/L

response 7831

Ion	Exp%	Act%
43.10	100.00	100.00
41.10	73.40	70.58
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

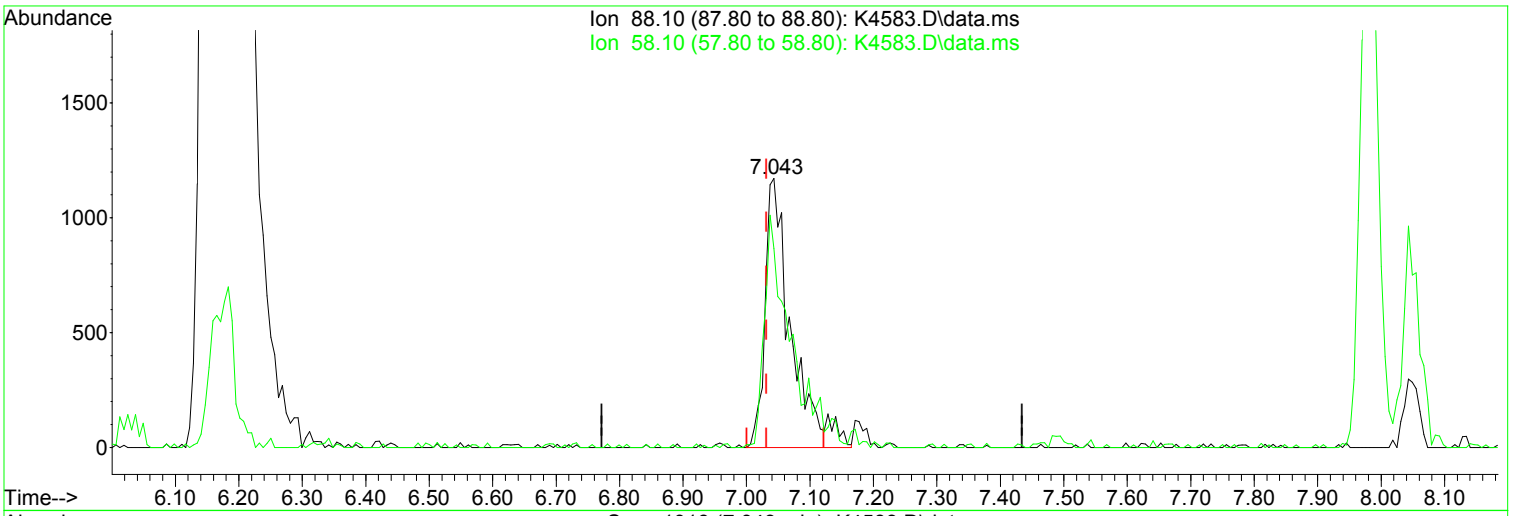
Before

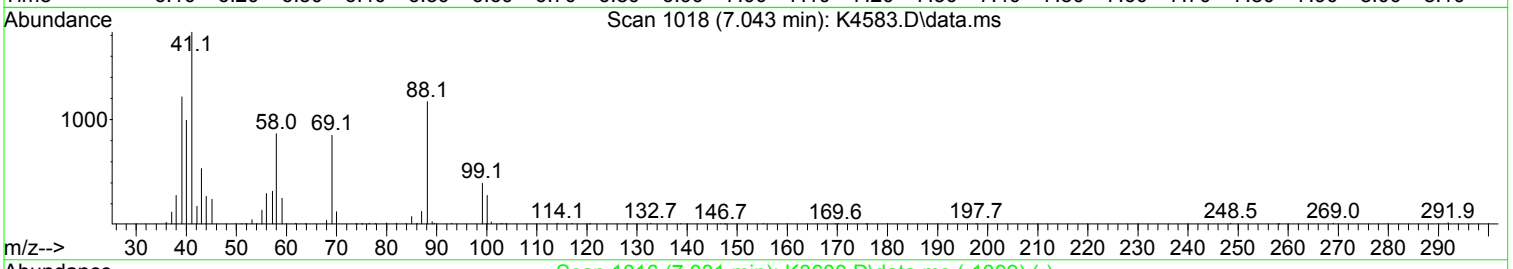
08/01/24

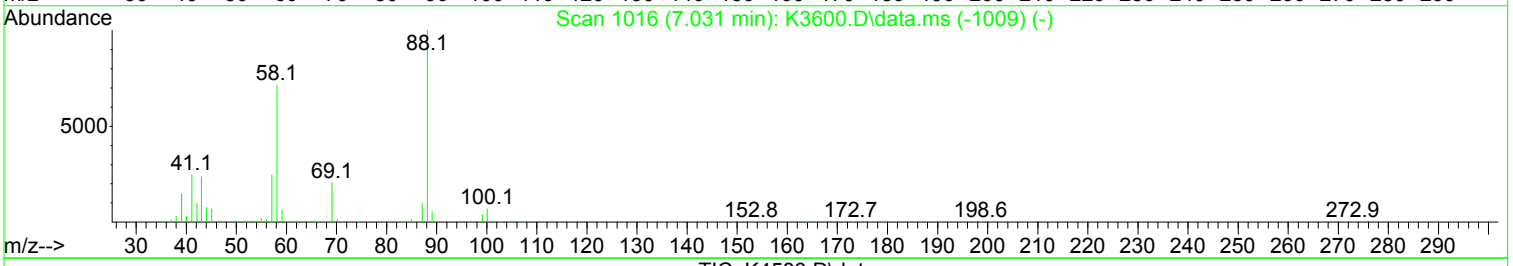
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 19:25:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4583.D\data.ms

(57) 1,4-Dioxane

7.043min (+ 0.012) 40.00 ug/L m

response 3349

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	71.50	74.04
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

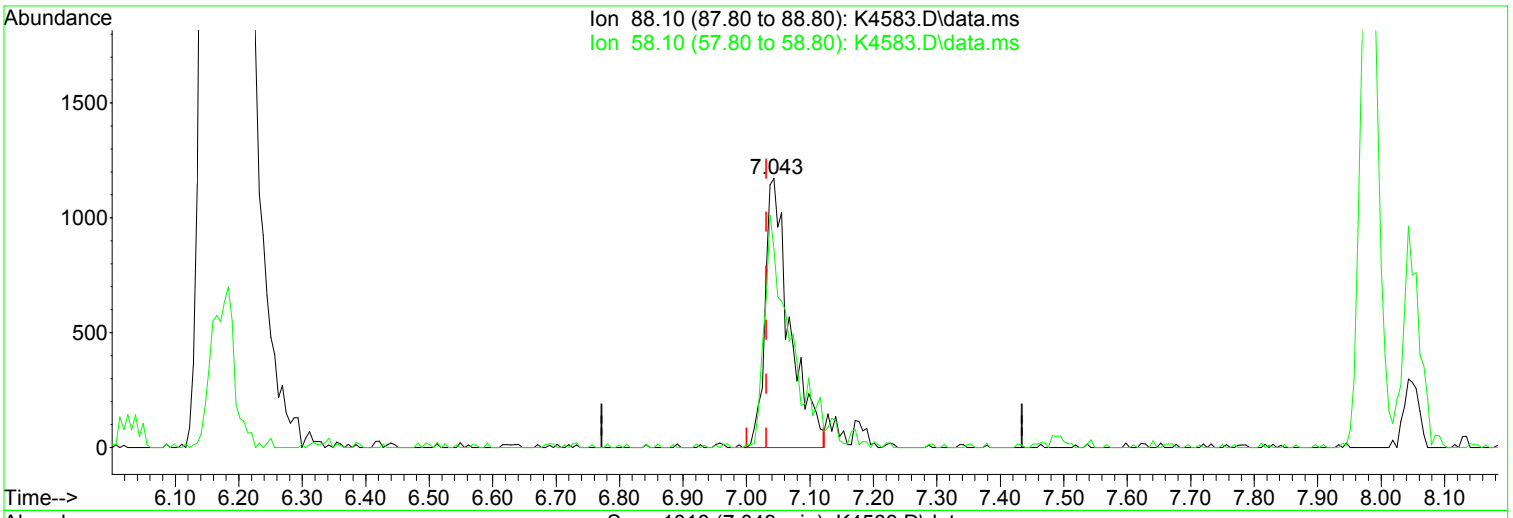
Poor integration.

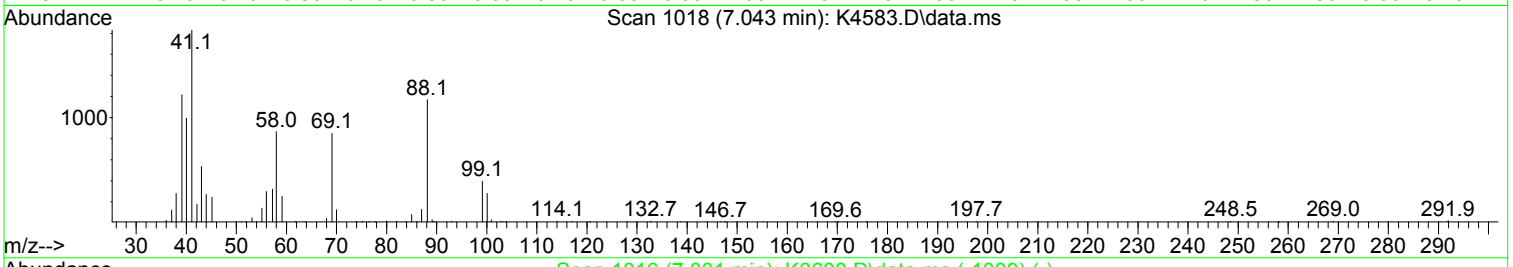
08/01/24

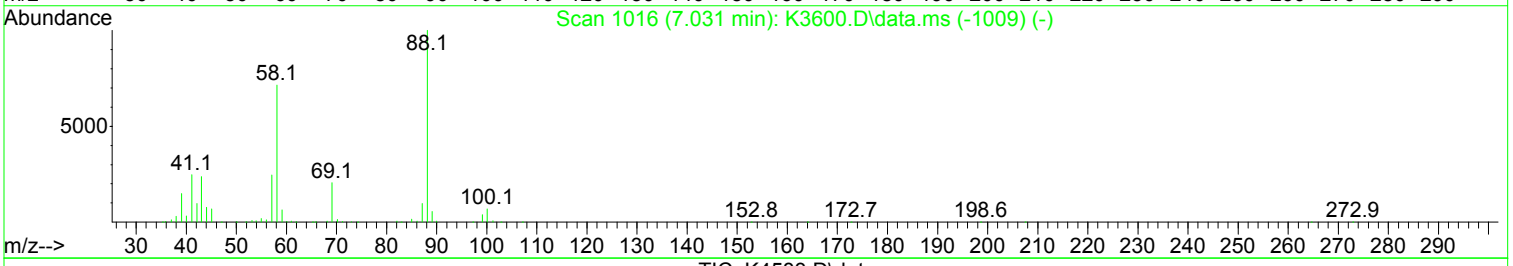
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 19:25:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4583.D\data.ms

(57) 1,4-Dioxane

7.043min (+ 0.012) 37.83 ug/L

response 3167

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	71.50	74.04
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

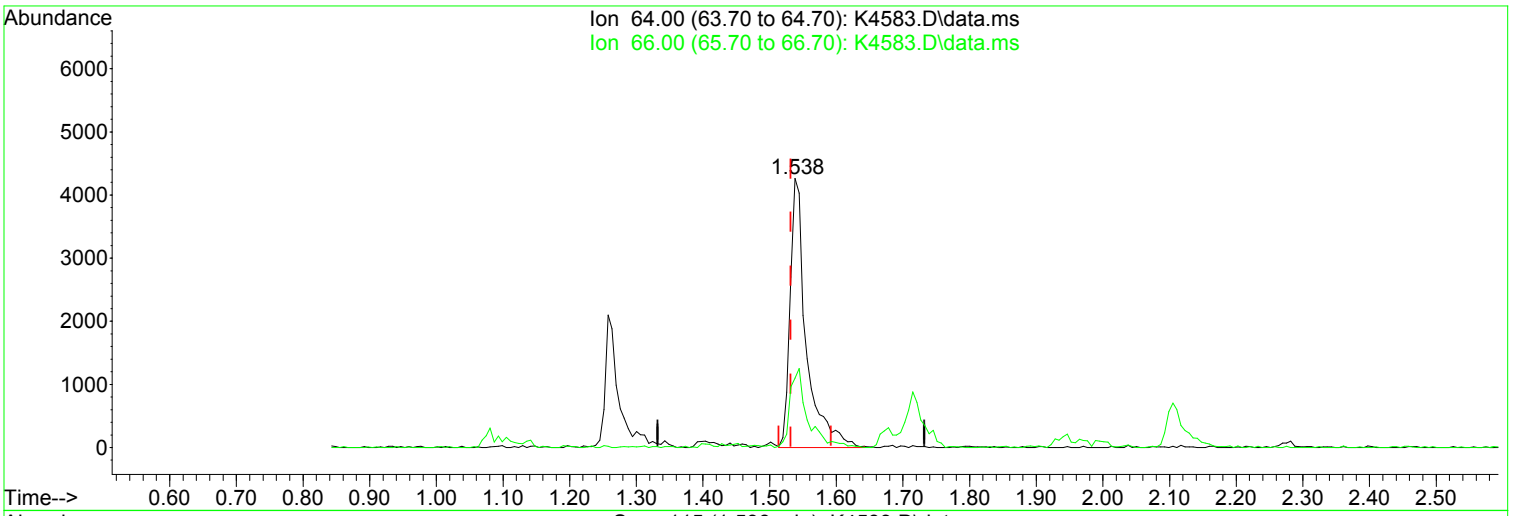
Before

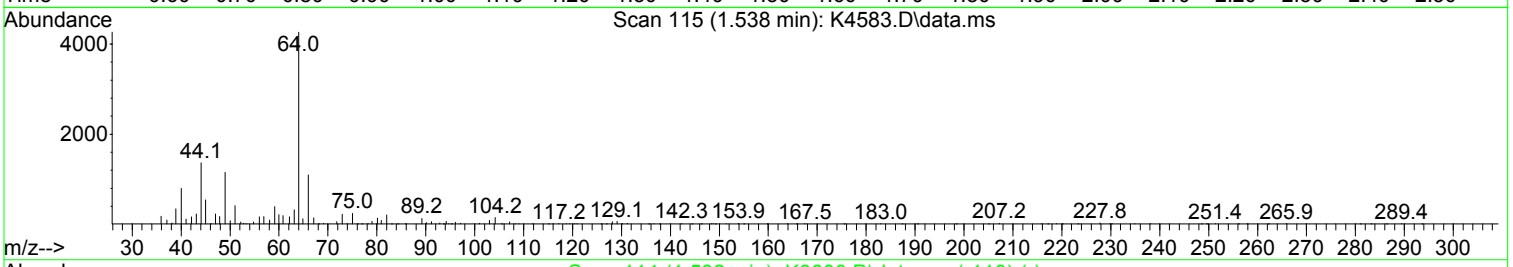
08/01/24

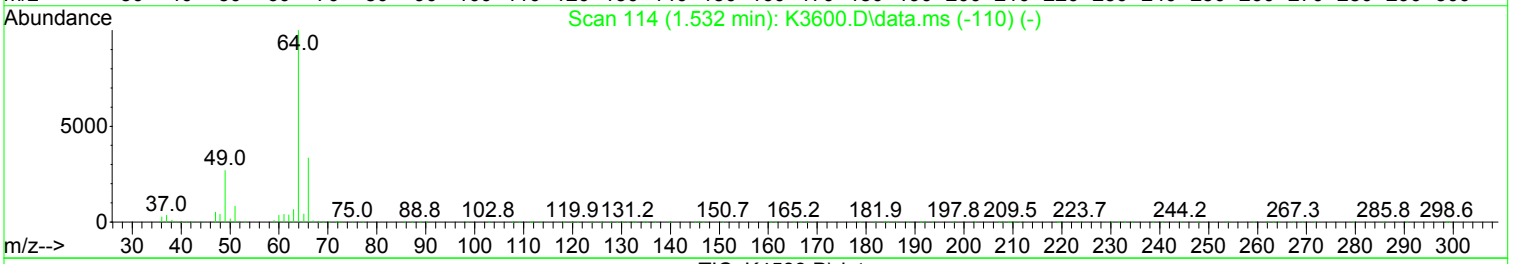
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 19:25:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4583.D\data.ms

(7) Chloroethane (P)

1.538min (+ 0.006) 2.35 ug/L m

response 7196

Ion	Exp%	Act%
64.00	100.00	100.00
66.00	33.50	25.77
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

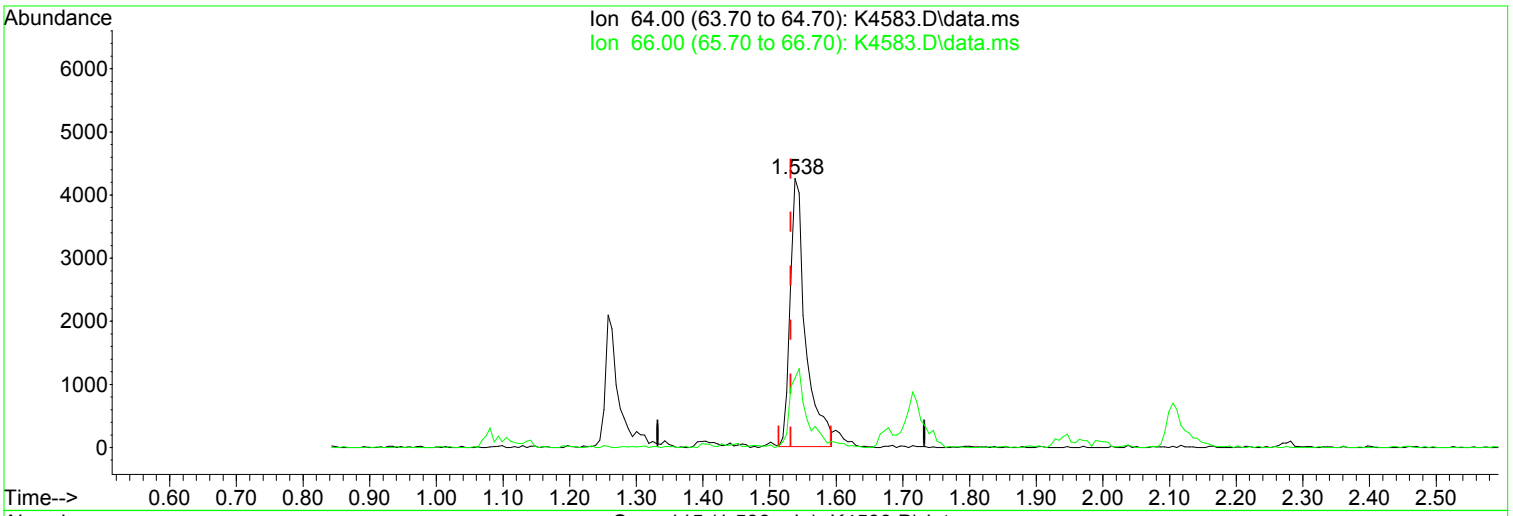
Poor integration.

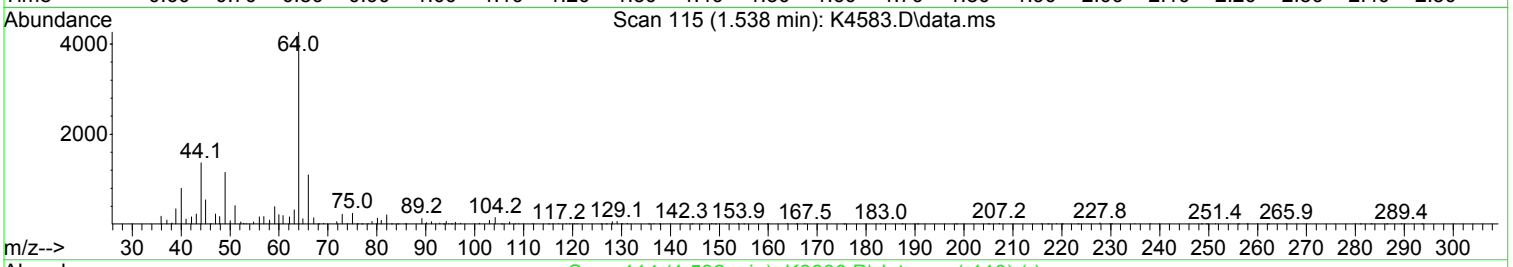
08/01/24

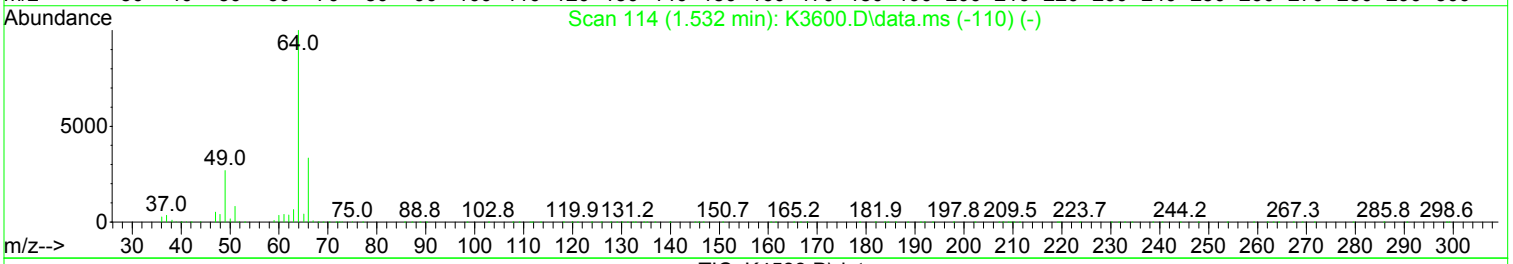
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 19:25:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4583.D\data.ms

(7) Chloroethane (P)

1.538min (+ 0.006) 2.21 ug/L

response 6792

Ion	Exp%	Act%
64.00	100.00	100.00
66.00	33.50	25.77
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

08/01/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 19:25:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.995	168	357535	50.00	ug/L		0.00
42) 1,4-Difluorobenzene	6.177	114	611454	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.573	117	528928	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	225648	50.00	ug/L		0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.830	113	39312	10.31	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 20.62%#				
47) surr1,1,2-dichloroetha...	5.415	65	55804	10.70	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 21.40%#				
64) SURR3,Toluene-d8	8.049	98	147593	10.54	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 21.08%#				
69) SURR2,BFB	10.664	95	55208	10.03	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 20.06%#				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.087	51	9861	2.027	ug/L		99
3) Dichlorodifluoromethane	1.075	85	8840m	2.117	ug/L		
4) Chloromethane	1.203	50	10116	2.156	ug/L		95
5) Vinyl Chloride	1.258	62	9431	1.949	ug/L		100
6) Bromomethane	1.471	94	5107	2.647	ug/L		97
7) Chloroethane	1.538	64	7196m	2.346	ug/L		
8) Freon 21	1.678	67	13994	2.144	ug/L		97
9) Trichlorofluoromethane	1.715	101	11210	2.083	ug/L		99
10) Diethyl Ether	1.928	59	8856	2.286	ug/L	#	79
11) Freon 123a	1.940	67	8134m	2.119	ug/L		
12) Freon 123	1.983	83	8469	1.933	ug/L		88
13) Acrolein	2.026	56	5055m	8.950	ug/L		
14) 1,1-Diclethene	2.105	96	6464	2.133	ug/L	#	69
15) Freon 113	2.111	101	6769	2.172	ug/L		98
16) Acetone	2.154	43	7912	2.765	ug/L		85
17) 2-Propanol	2.282	45	21375	37.874	ug/L		98
18) Iodomethane	2.227	142	8676	1.836	ug/L		99
19) Carbon Disulfide	2.276	76	14145	1.896	ug/L		99
20) Acetonitrile/Allyl Chl...	2.404	41	18882	12.539	ug/L		81
21) Methyl Acetate	2.434	43	10279	2.058	ug/L		84
22) Methylene Chloride	2.519	84	9837	2.195	ug/L	#	70
23) TBA	2.654	59	39611	37.867	ug/L		86
24) Acrylonitrile	2.763	53	27249	10.431	ug/L		100
25) Methyl-t-Butyl Ether	2.800	73	24367	2.123	ug/L		89
26) trans-1,2-Dichloroethene	2.788	96	6812	2.049	ug/L	#	61
27) 1,1-Diclethane	3.245	63	15109	2.204	ug/L		97
28) Vinyl Acetate	3.330	86	981	1.464	ug/L	#	49
29) DIPE	3.361	45	26066	2.154	ug/L		85
30) 2-Chloro-1,3-Butadiene	3.355	53	14222	2.050	ug/L	#	72
31) ETBE	3.855	59	27098	2.114	ug/L		89
32) 2,2-Dichloropropane	4.001	77	8081	1.874	ug/L		86
33) cis-1,2-Dichloroethene	4.019	96	8258m	2.167	ug/L		
34) 2-Butanone	4.086	43	7136	2.090	ug/L		76
35) Propionitrile	4.166	54	11382	9.756	ug/L		98
36) Bromochloromethane	4.385	130	5642	2.234	ug/L	#	82
37) Methacrylonitrile	4.397	67	4620	2.124	ug/L		90
38) Tetrahydrofuran	4.495	42	4812	2.209	ug/L	#	65
39) Chloroform	4.556	83	13354	2.095	ug/L		94
40) 1,1,1-Trichloroethane	4.842	97	11552	2.258	ug/L		94

1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 19:25:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) TAME	5.769	73	20765	2.100	ug/L		92
43) Cyclohexane	4.909	41	7957	2.210	ug/L		91
45) Carbontetrachloride	5.129	117	10868	2.235	ug/L		85
46) 1,1-Dichloropropene	5.153	75	9166	2.041	ug/L		88
48) Benzene	5.501	78	27539	2.117	ug/L		78
49) 1,2-Dichloroethane	5.549	62	14012	2.149	ug/L		94
50) Iso-Butyl Alcohol	5.574	43	8985m	28.618	ug/L		
51) n-Heptane	6.025	43	10210	2.084	ug/L	#	69
52) 1-Butanol	6.604	56	14069	68.373	ug/L		87
53) Trichloroethene	6.513	130	7764	2.002	ug/L		91
54) Methylcyclohexane	6.750	55	10882	1.989	ug/L	#	76
55) 1,2-Diclpropane	6.805	63	8353	2.110	ug/L		81
56) Dibromomethane	6.958	93	5246	2.113	ug/L		88
57) 1,4-Dioxane	7.043	88	3349m	40.001	ug/L		
58) Methyl Methacrylate	7.055	69	6384	1.930	ug/L	#	62
59) Bromodichloromethane	7.195	83	9092	1.949	ug/L		95
60) 2-Nitropropane	7.500	41	5697	3.418	ug/L		100
61) 2-Chloroethylvinyl Ether	7.622	63	2675	2.092	ug/L		90
62) cis-1,3-Dichloropropene	7.756	75	9989	1.881	ug/L		92
63) 4-Methyl-2-pentanone	7.976	43	12236	1.973	ug/L		82
65) Toluene	8.122	91	30931	2.083	ug/L		97
66) trans-1,3-Dichloropropene	8.415	75	9308	1.825	ug/L		97
67) Ethyl Methacrylate	8.561	69	10864	1.901	ug/L	#	52
68) 1,1,2-Trichloroethane	8.598	97	7043	1.969	ug/L		86
71) Tetrachloroethene	8.726	164	5744	2.202	ug/L	#	81
72) 2-Hexanone	8.915	43	9297	1.994	ug/L		84
73) 1,3-Dichloropropane	8.774	76	12601	2.208	ug/L		82
74) Dibromochloromethane	9.000	129	6999	1.900	ug/L		96
75) N-Butyl Acetate	9.073	43	17990	2.012	ug/L		92
76) 1,2-Dibromoethane	9.091	107	7840	2.076	ug/L		86
77) 3-Chlorobenzotrifluoride	9.634	180	9436	2.196	ug/L		94
78) Chlorobenzene	9.597	112	21229	2.142	ug/L		95
79) 4-Chlorobenzotrifluoride	9.689	180	8804	2.211	ug/L		94
80) 1,1,1,2-Tetrachloroethane	9.695	131	7082	1.983	ug/L		97
81) Ethylbenzene	9.726	106	10528	2.113	ug/L	#	83
82) (m+p)Xylene	9.841	106	26517	4.323	ug/L		98
83) o-Xylene	10.201	106	12569	2.057	ug/L		89
84) Styrene	10.213	104	21293	2.072	ug/L		96
85) Bromoform	10.366	173	3455	1.658	ug/L		84
86) 2-Chlorobenzotrifluoride	10.457	180	9483	2.178	ug/L		98
87) Isopropylbenzene	10.542	105	33337	2.128	ug/L		100
88) Cyclohexanone	10.610	55	46625	40.290	ug/L		93
89) trans-1,4-Dichloro-2-B...	10.859	53	4007	1.813	ug/L	#	74
91) 1,1,2,2-Tetrachloroethane	10.811	83	10263	2.173	ug/L		94
92) Bromobenzene	10.780	156	8541	2.373	ug/L	#	84
93) 1,2,3-Trichloropropane	10.835	110	4044	2.361	ug/L	#	82
94) n-Propylbenzene	10.896	91	39060	2.389	ug/L		97
95) 2-Chlorotoluene	10.957	91	25553	2.485	ug/L		93
96) 3-Chlorotoluene	11.012	91	24911	2.394	ug/L		97
97) 4-Chlorotoluene	11.055	91	27760	2.347	ug/L		97
98) 1,3,5-Trimethylbenzene	11.055	105	27771	2.243	ug/L		98
99) tert-Butylbenzene	11.323	119	24090	2.279	ug/L		97
100) 1,2,4-Trimethylbenzene	11.365	105	28369	2.260	ug/L		98
101) 3,4-Dichlorobenzotrifl...	11.433	214	6121	2.245	ug/L		92
102) sec-Butylbenzene	11.506	105	35086	2.371	ug/L		93
103) p-Isopropyltoluene	11.634	119	29578	2.273	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 19:25:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.585	146	15898	2.306	ug/L	98
105) 1,4-Dclbenz	11.664	146	16413	2.358	ug/L	89
106) 2,4-Dichlorobenzotrifl...	11.725	214	5616	2.339	ug/L	86
107) 2,5-Dichlorobenzotrifl...	11.762	214	6186	2.312	ug/L	86
108) n-Butylbenzene	11.969	91	25801	2.276	ug/L	98
109) 1,2-Dclbenz	11.963	146	16212	2.382	ug/L	96
110) 1,2-Dibromo-3-chloropr...	12.591	157	2070	1.842	ug/L	92
111) Trielution Dichlorotol...	12.707	125	43684	6.809	ug/L	93
112) 1,3,5-Trichlorobenzene	12.762	180	10235	2.301	ug/L	97
113) Coelution Dichlorotoluene	13.036	125	31408	4.551	ug/L	96
114) 1,2,4-Tcbenzene	13.243	180	9657	2.239	ug/L	92
115) Hexachlorobt	13.383	225	3578	2.254	ug/L	86
116) Naphthalen	13.432	128	34484	2.115	ug/L	99
117) 1,2,3-Tclbenzene	13.621	180	9527	2.242	ug/L	96
118) 2,4,5-Trichlorotoluene	14.213	159	7878	2.327	ug/L	87
119) 2,3,6-Trichlorotoluene	14.298	159	6592	2.105	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 19:25:08 2024
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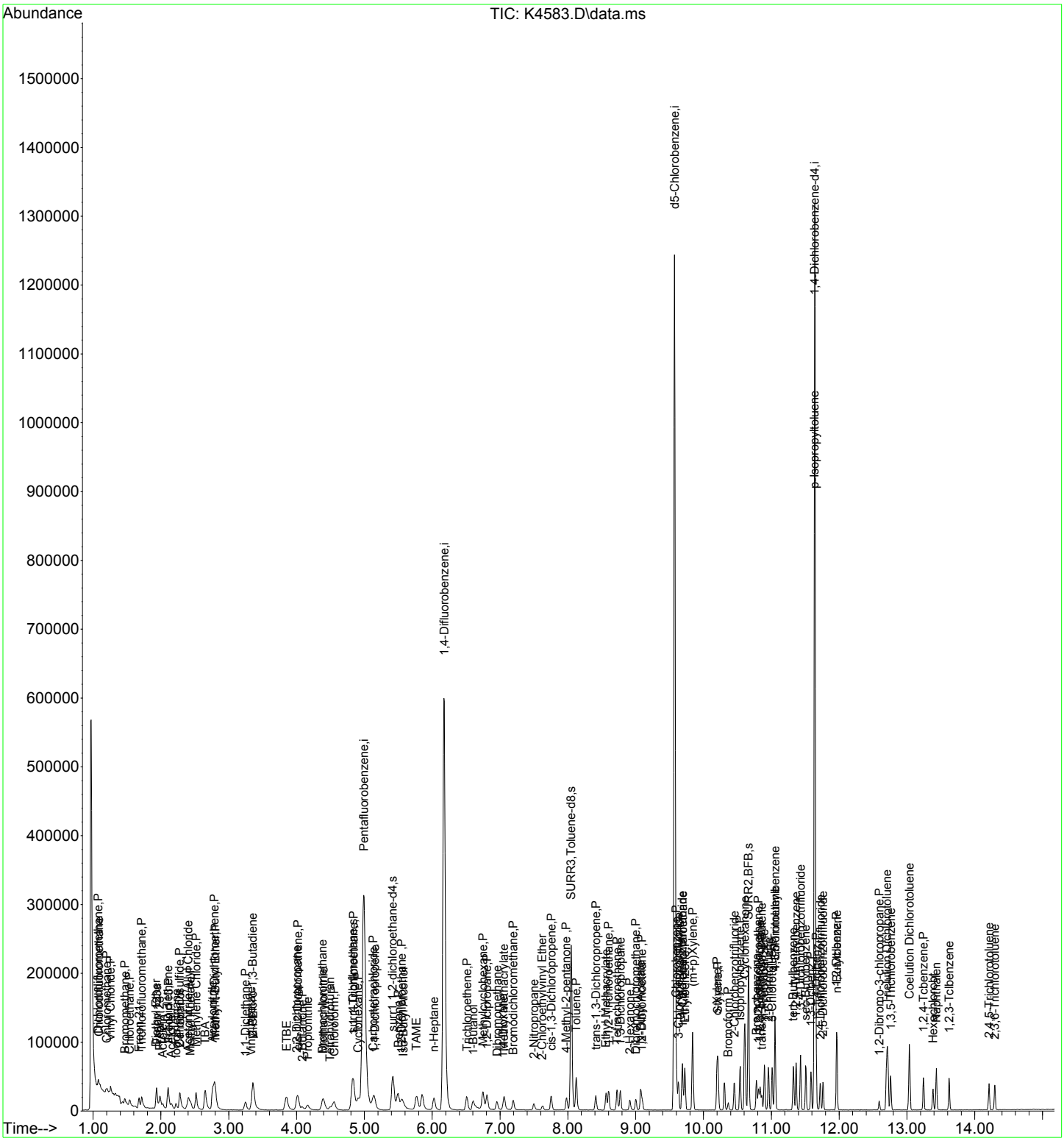
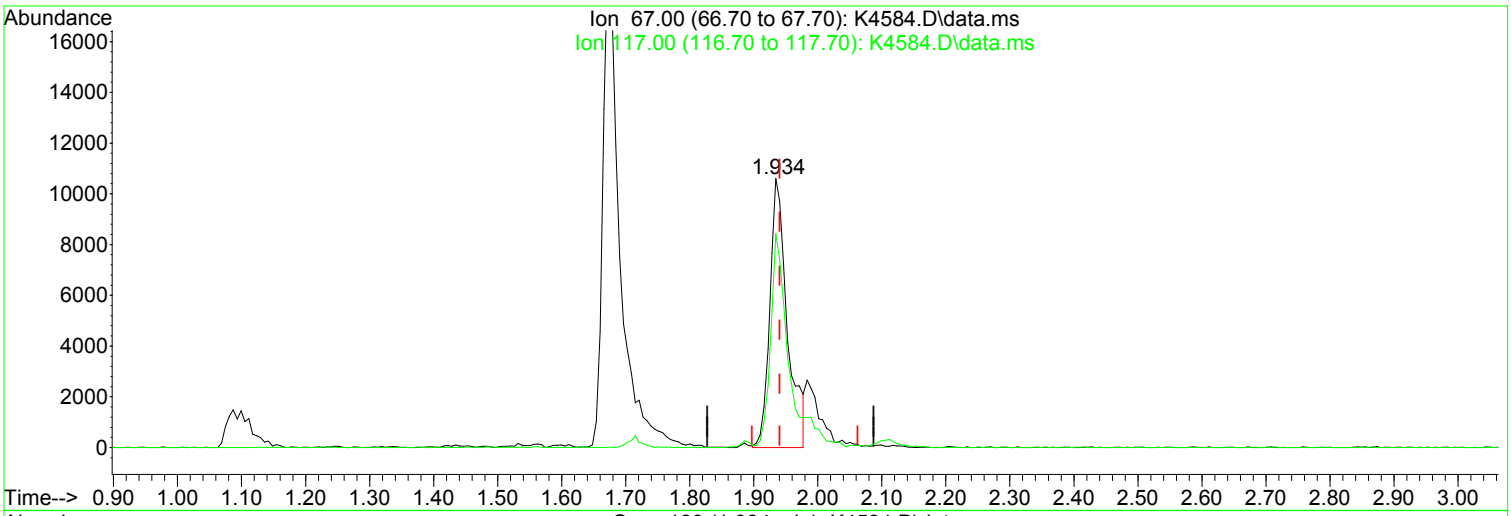
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

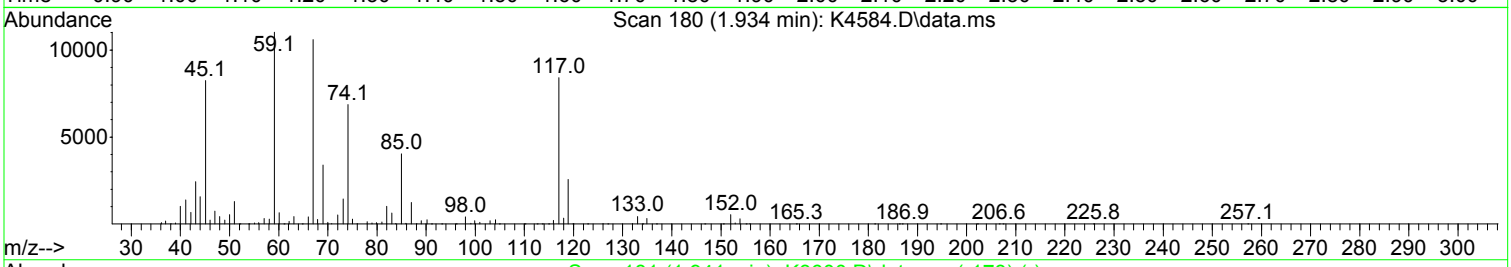


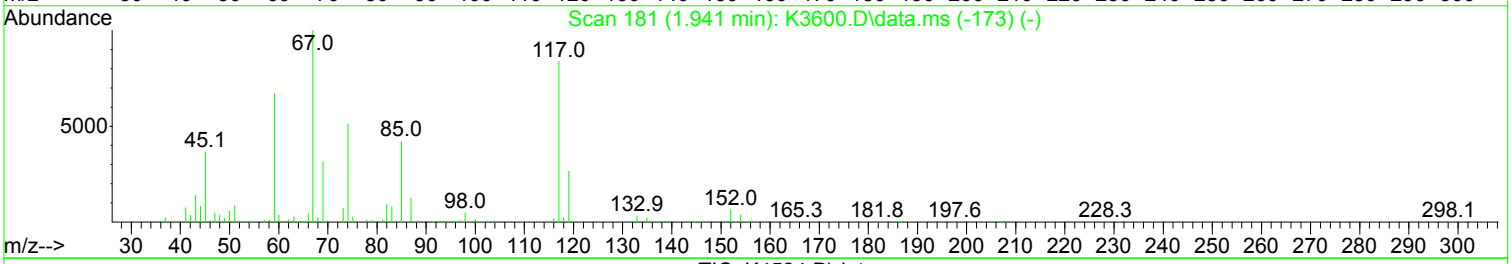
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4584.D
Acq On : 31 Jul 2024 04:46 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 31 19:25:13 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4584.D\data.ms

(11) Freon 123a

1.934min (-0.006) 5.34 ug/L m

response 20240

Ion	Exp%	Act%
67.00	100.00	100.00
117.00	85.30	79.42
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

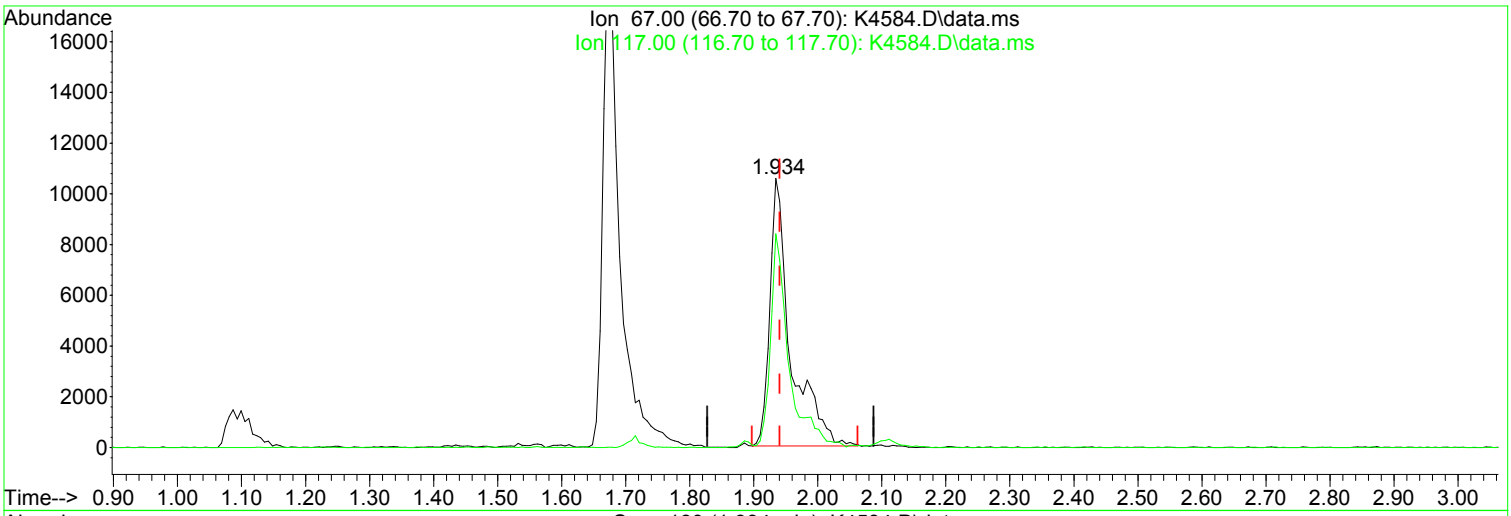
Poor integration.

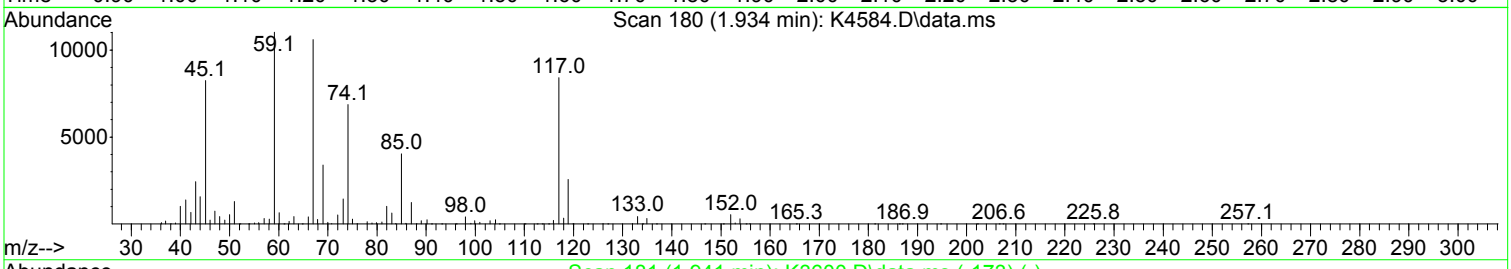
08/01/24

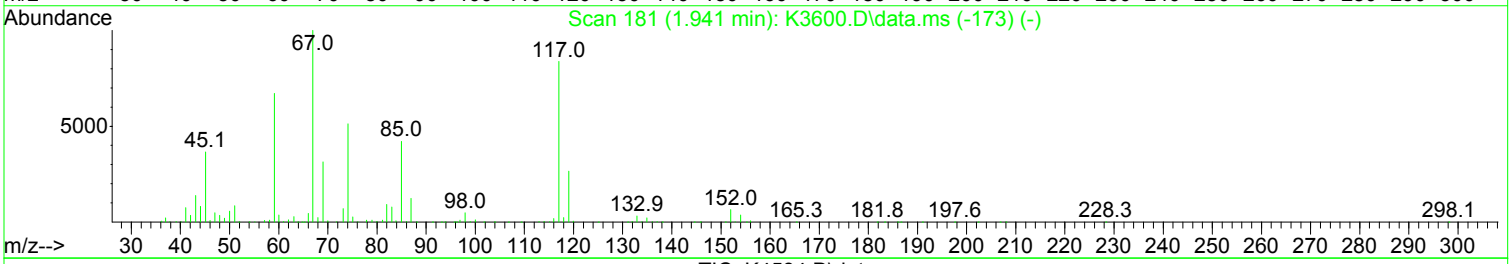
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4584.D
Acq On : 31 Jul 2024 04:46 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 31 19:25:13 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4584.D\data.ms

(11) Freon 123a

1.934min (-0.006) 6.32 ug/L

response 23974

Ion	Exp%	Act%
67.00	100.00	100.00
117.00	85.30	79.42
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

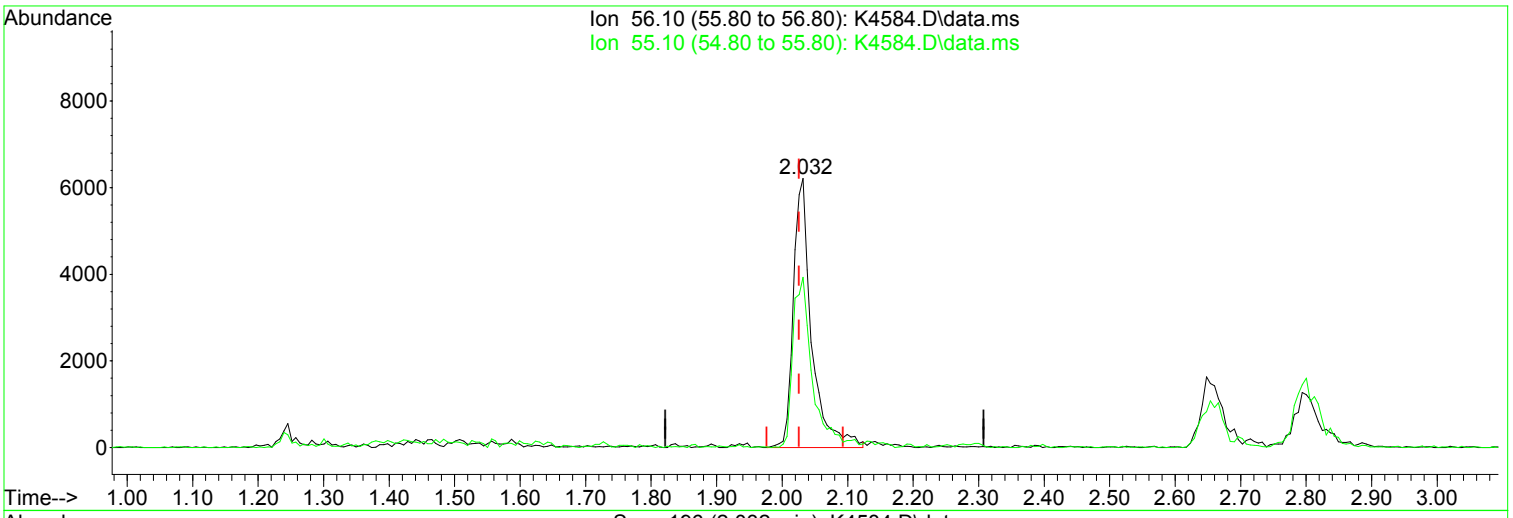
Before

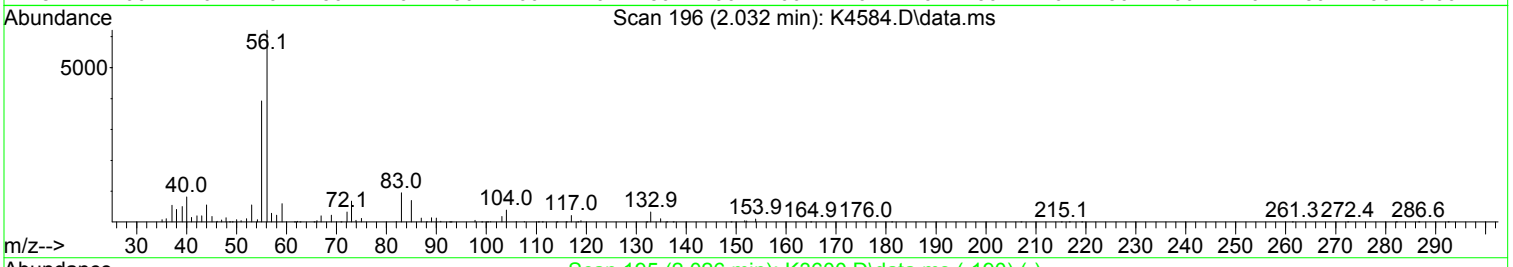
08/01/24

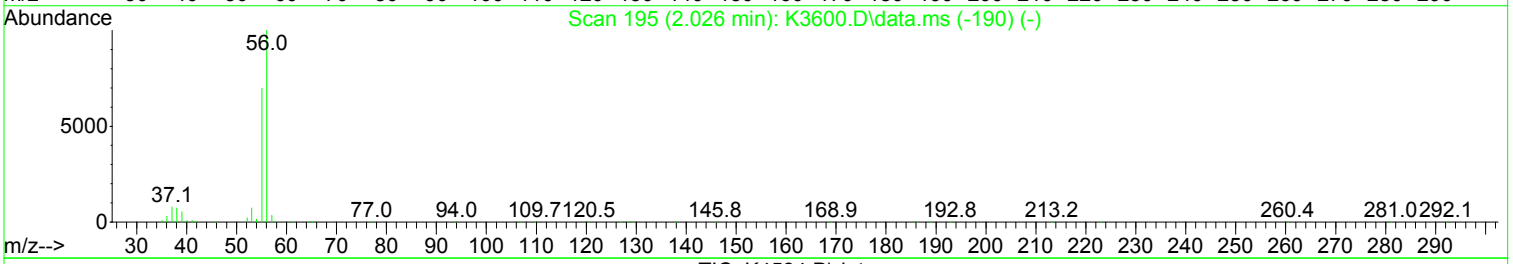
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4584.D
Acq On : 31 Jul 2024 04:46 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 31 19:25:13 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4584.D\data.ms

(13) Acrolein

2.032min (+ 0.006) 21.53 ug/L m

response 12015

Ion	Exp%	Act%
56.10	100.00	100.00
55.10	70.10	63.25
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

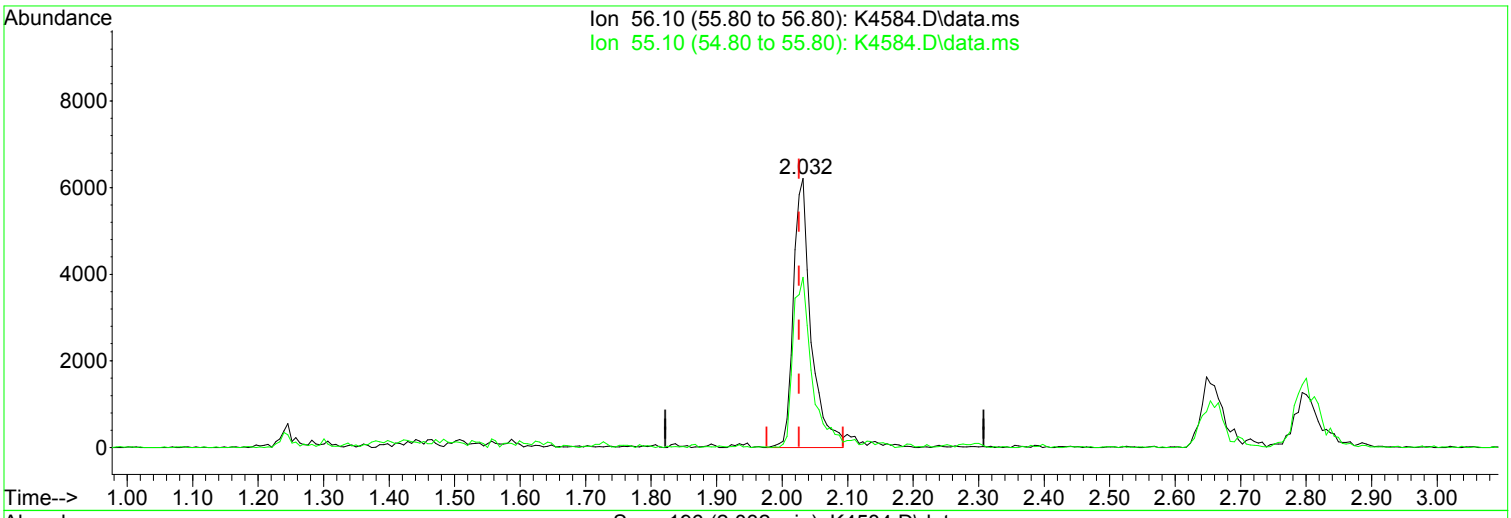
Poor integration.

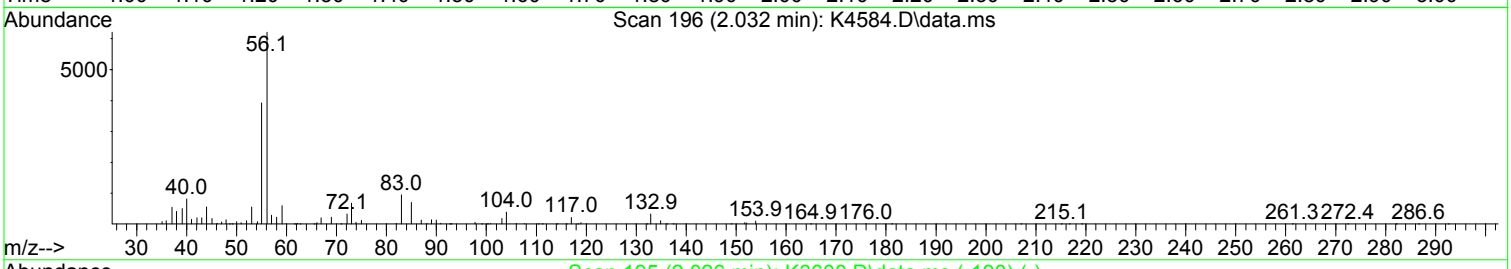
08/01/24

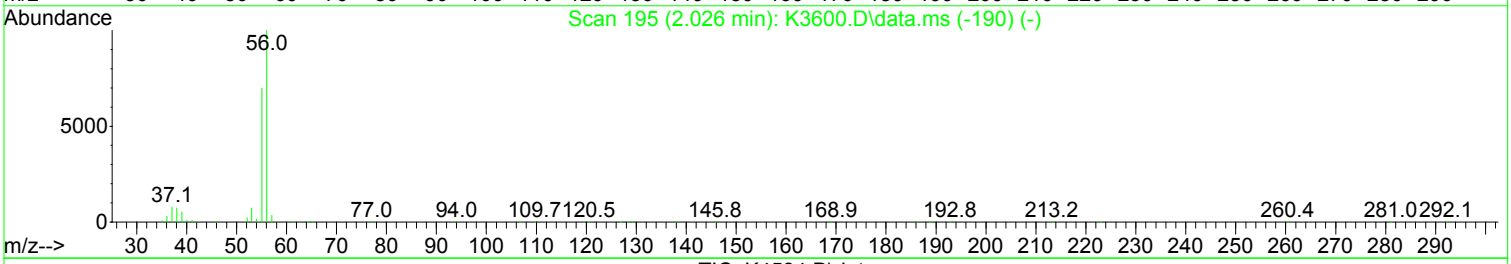
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4584.D
Acq On : 31 Jul 2024 04:46 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 31 19:25:13 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4584.D\data.ms

(13) Acrolein

2.032min (+ 0.006) 20.85 ug/L

response 11636

Ion	Exp%	Act%
56.10	100.00	100.00
55.10	70.10	63.25
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

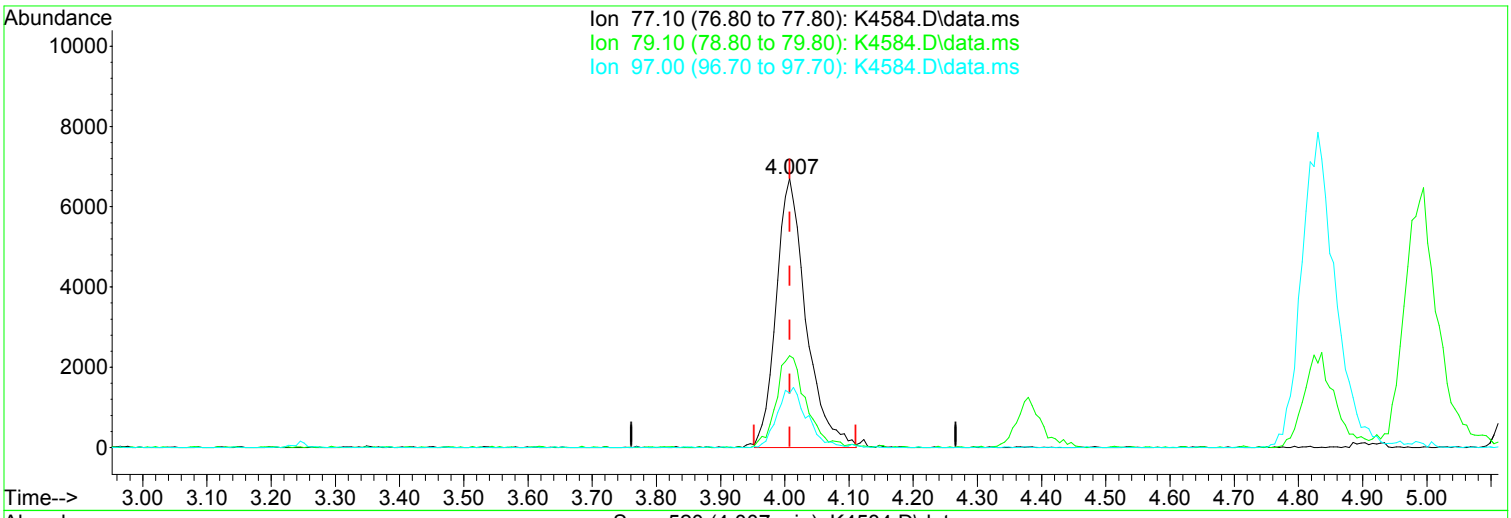
Before

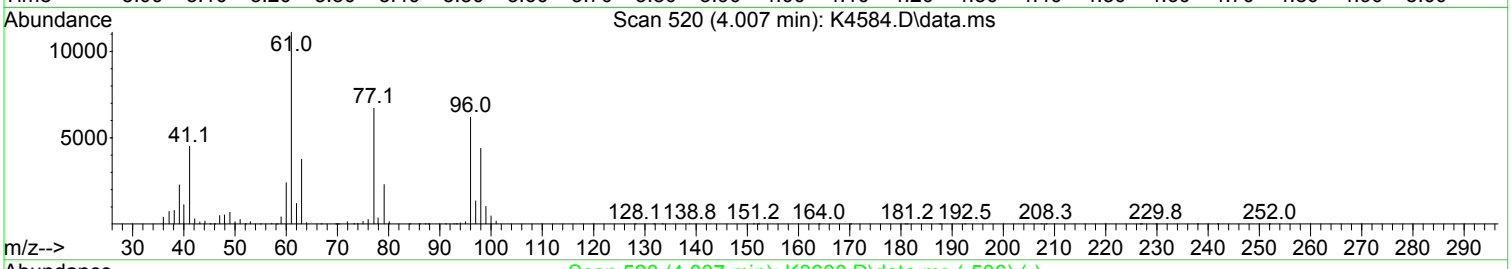
08/01/24

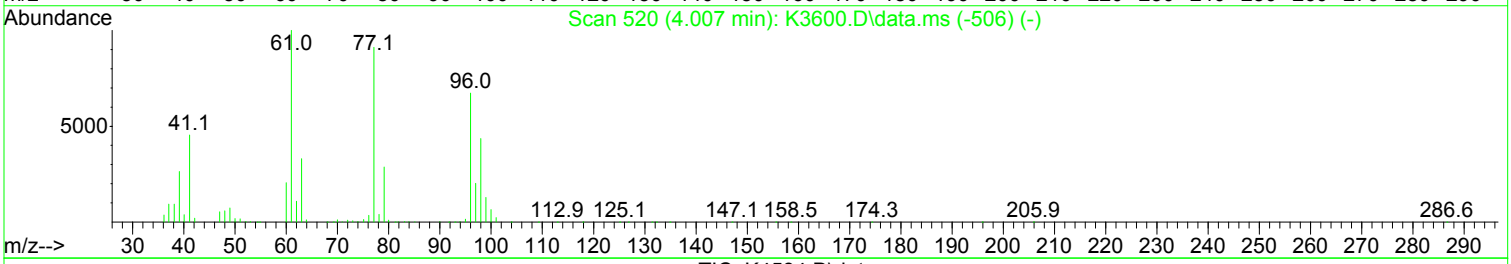
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4584.D
Acq On : 31 Jul 2024 04:46 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 31 19:25:13 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4584.D\data.ms

(32) 2,2-Dichloropropane

4.007min (-0.000) 5.07 ug/L m

response 21614

Ion	Exp%	Act%
77.10	100.00	100.00
79.10	31.50	34.18
97.00	22.20	20.19
0.00	0.00	0.00

Manual Integration:

After

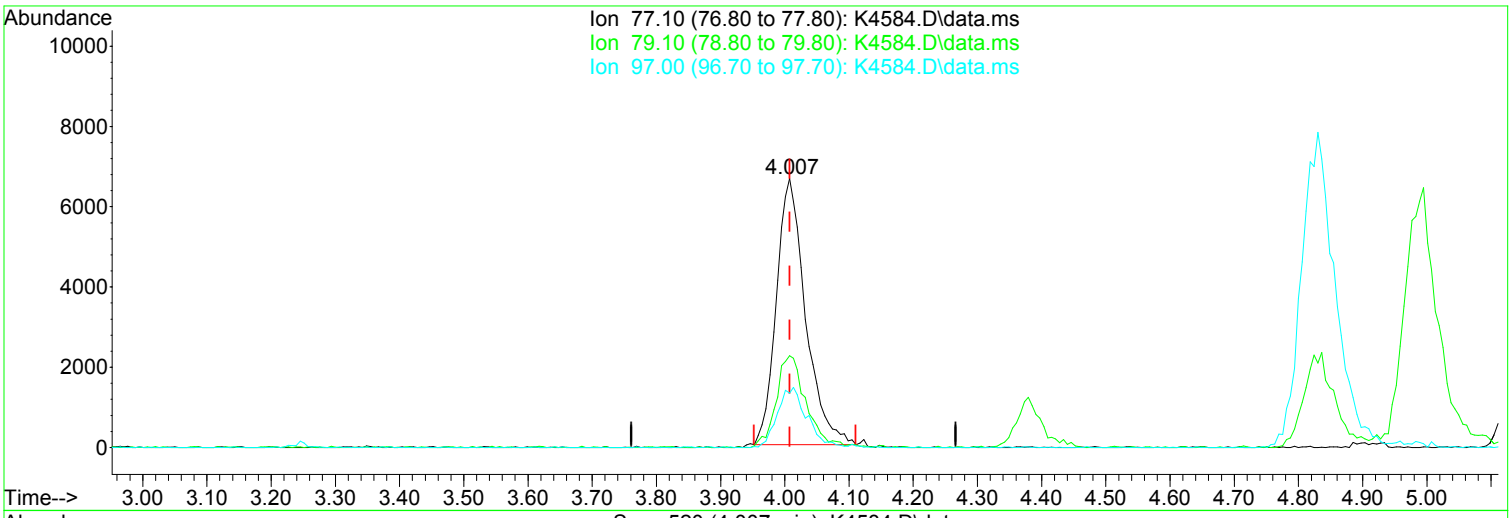
Poor integration.

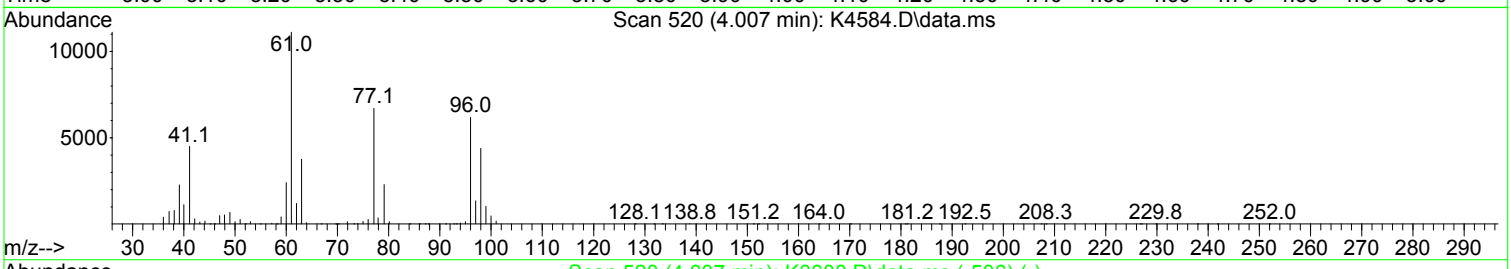
08/01/24

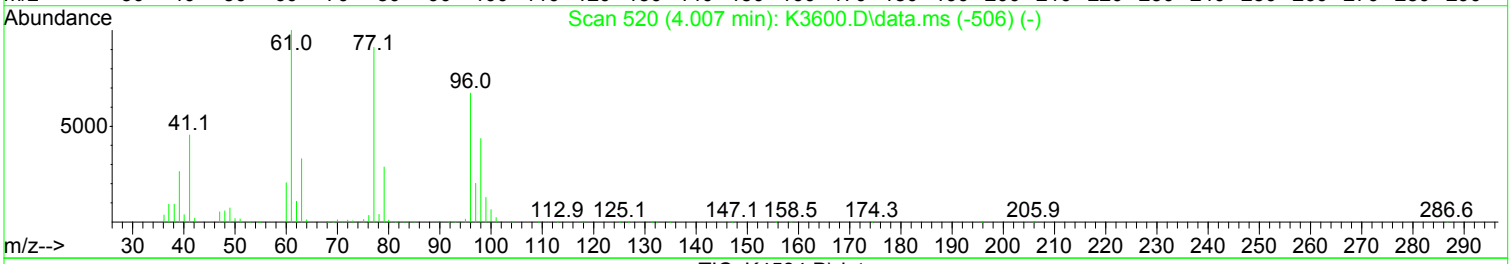
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4584.D
Acq On : 31 Jul 2024 04:46 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 31 19:25:13 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4584.D\data.ms

(32) 2,2-Dichloropropane

4.007min (-0.000) 4.91 ug/L

response 20911

Ion	Exp%	Act%
77.10	100.00	100.00
79.10	31.50	34.18
97.00	22.20	20.19
0.00	0.00	0.00

Manual Integration:

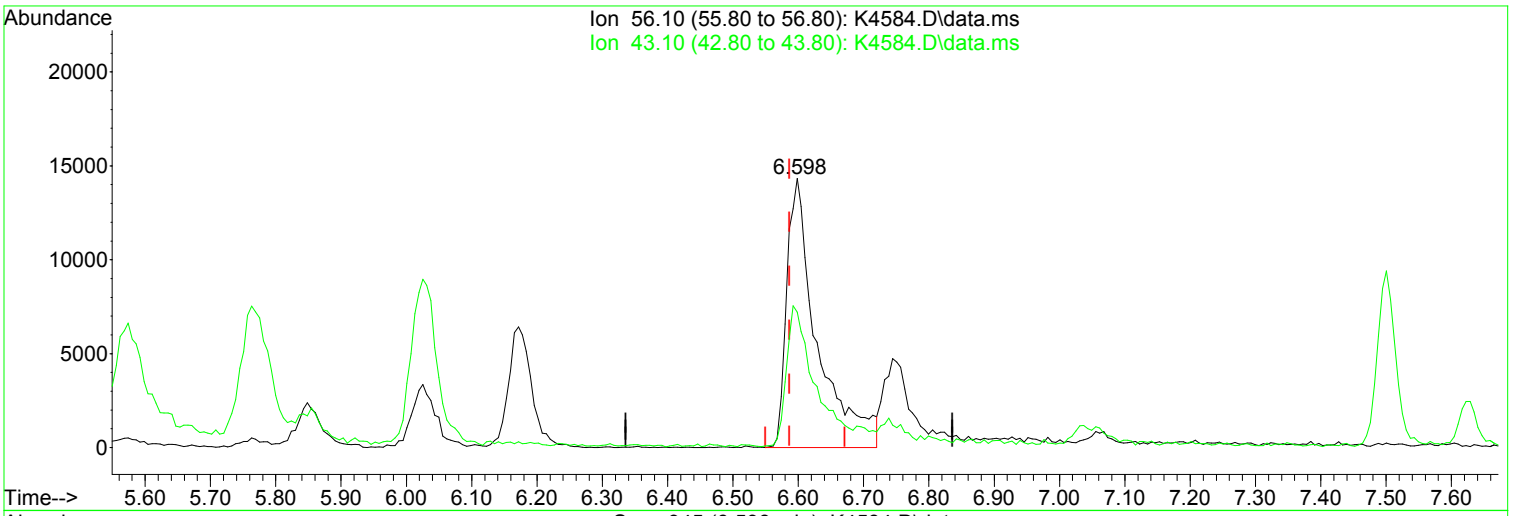
Before

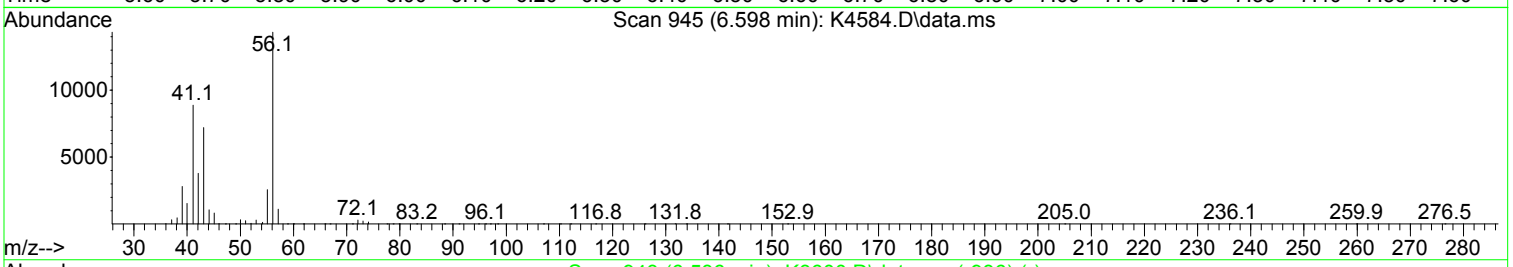
08/01/24

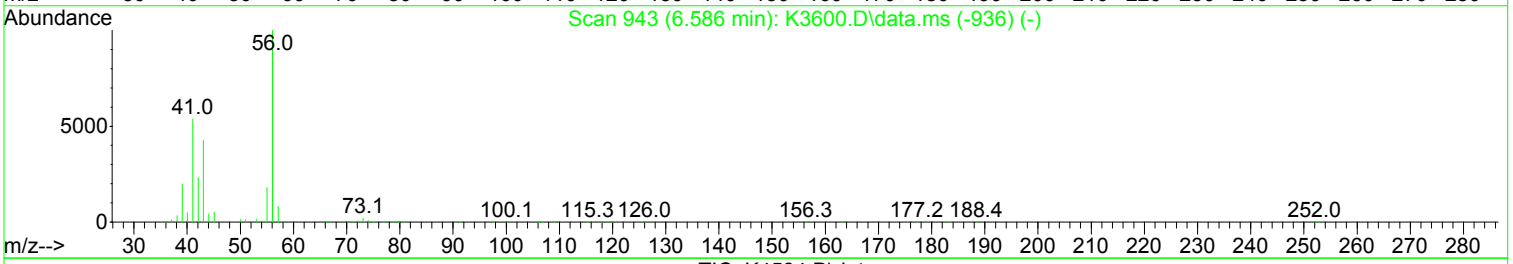
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4584.D
Acq On : 31 Jul 2024 04:46 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 31 19:25:13 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4584.D\data.ms

(52) 1-Butanol

6.598min (+ 0.012) 227.78 ug/L m

response 46422

Ion	Exp%	Act%
56.10	100.00	100.00
43.10	42.60	50.34
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

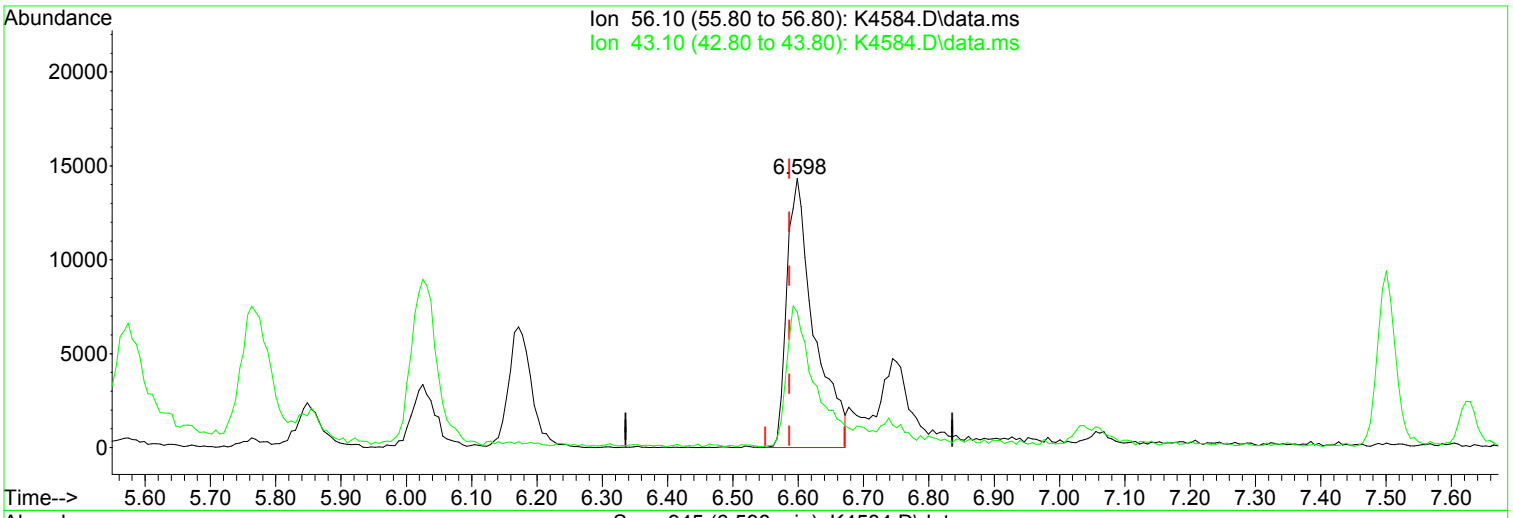
Poor integration.

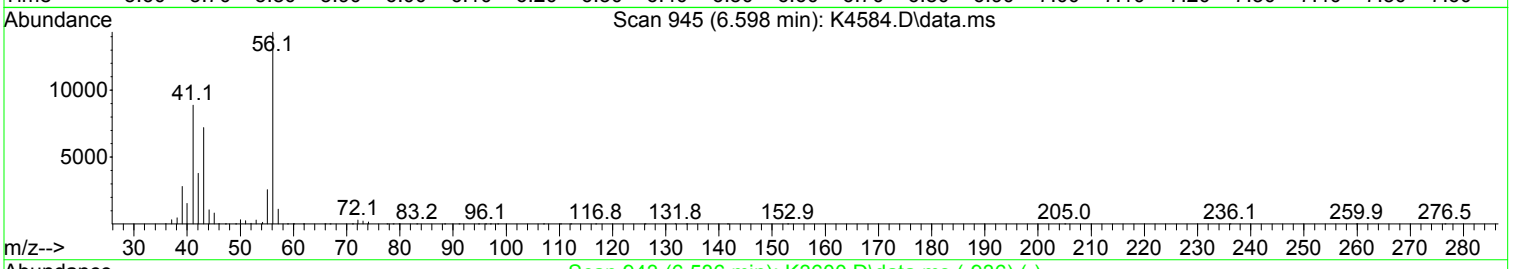
08/01/24

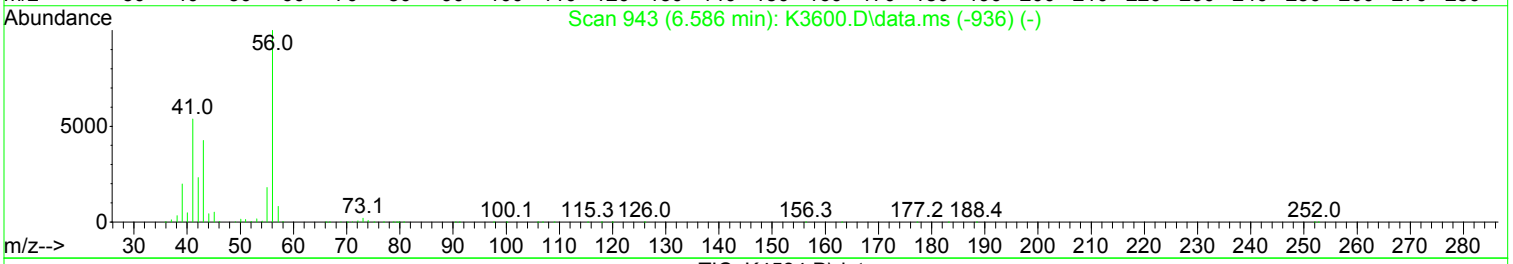
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4584.D
Acq On : 31 Jul 2024 04:46 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 31 19:25:13 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4584.D\data.ms

(52) 1-Butanol

6.598min (+ 0.012) 202.96 ug/L

response 41364

Ion	Exp%	Act%
56.10	100.00	100.00
43.10	42.60	50.34
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

08/01/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4584.D
Acq On : 31 Jul 2024 04:46 pm
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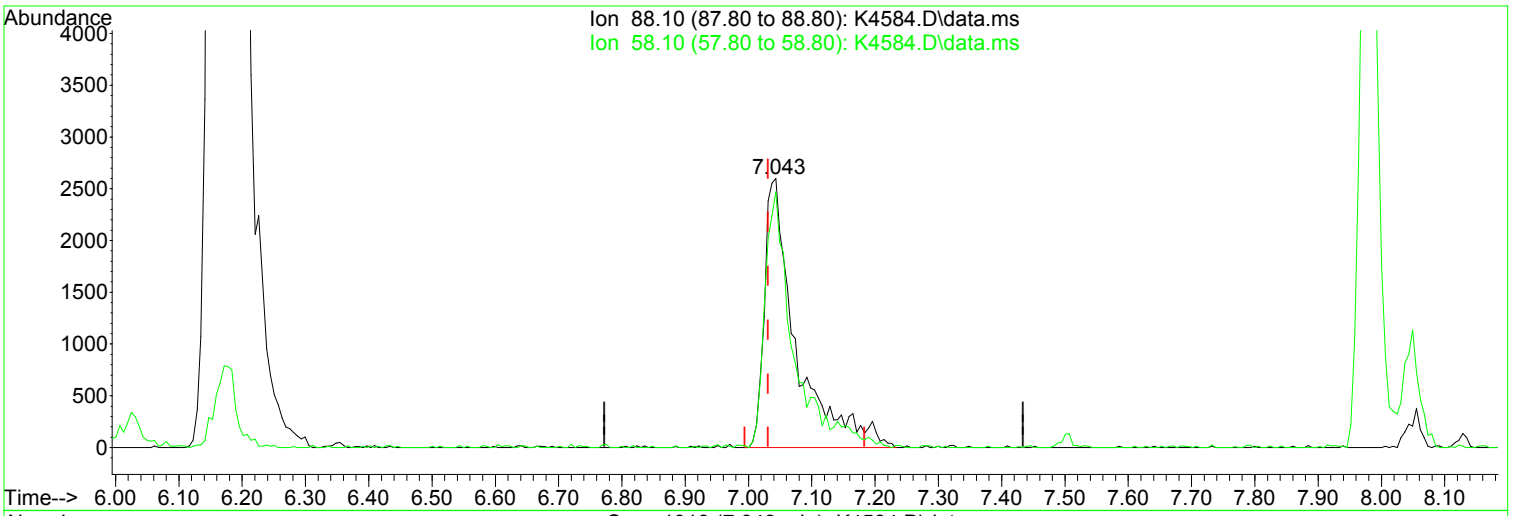
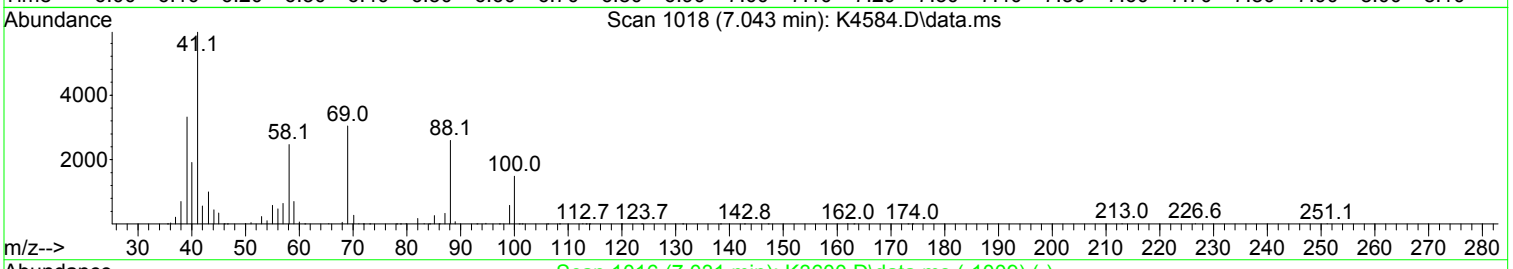
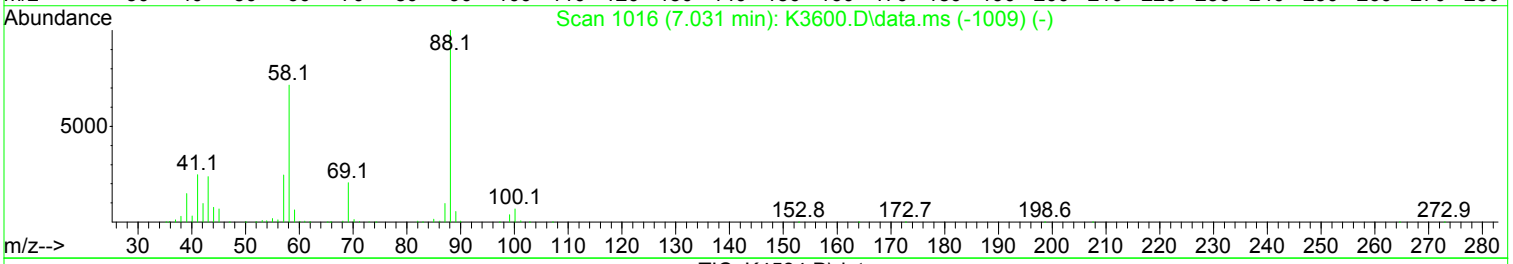
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 31 19:25:13 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4584.D\data.ms

(57) 1,4-Dioxane

7.043min (+ 0.012) 110.13 ug/L m

response 9132

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	71.50	95.04#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

08/01/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4584.D
Acq On : 31 Jul 2024 04:46 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 31 19:25:13 2024
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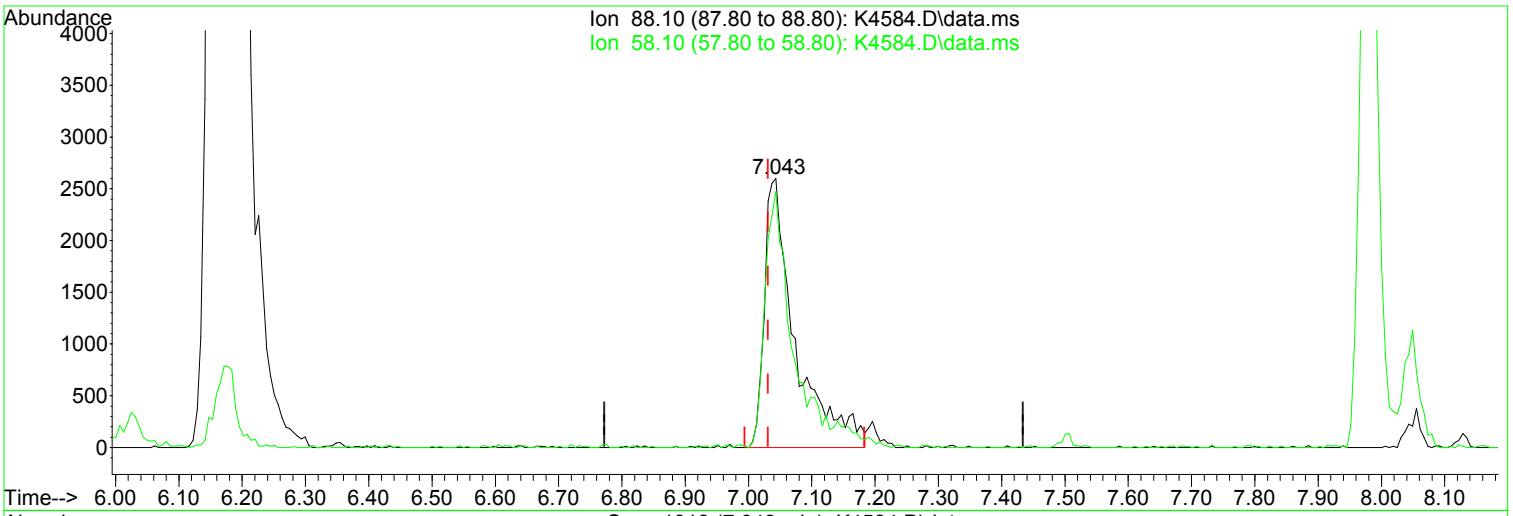
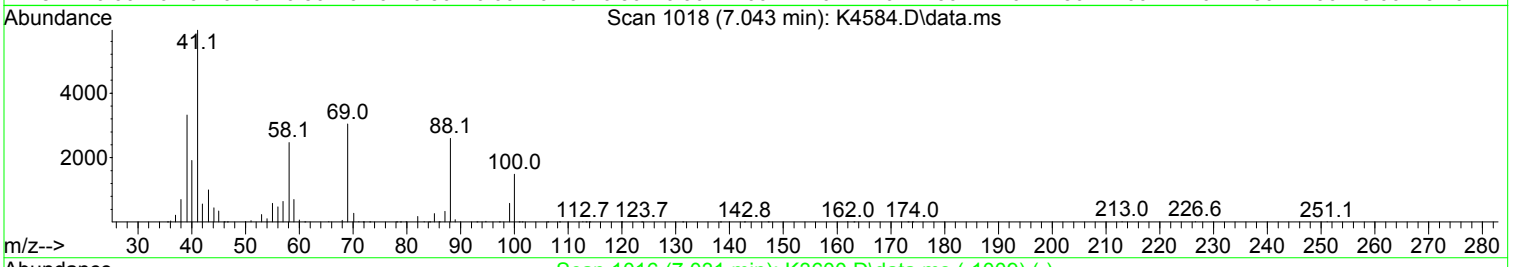
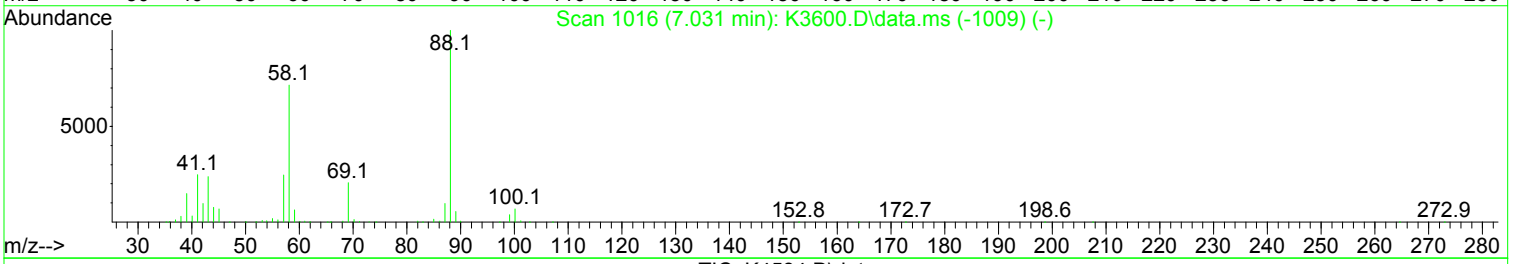
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4584.D\data.ms

(57) 1,4-Dioxane

7.043min (+ 0.012) 106.58 ug/L

response 8838

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	71.50	95.04#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

08/01/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4584.D
Acq On : 31 Jul 2024 04:46 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 31 19:25:13 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.989	168	353221	50.00	ug/L		0.00
42) 1,4-Difluorobenzene	6.171	114	605605	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.573	117	536292	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	247061	50.00	ug/L		0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.830	113	39101	10.35	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 20.70%#				
47) surr1,1,2-dichloroetha...	5.415	65	55277	10.71	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 21.42%#				
64) SURR3,Toluene-d8	8.049	98	149748	10.80	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 21.60%#				
69) SURR2,BFB	10.665	95	57860	10.62	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 21.24%#				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.081	51	24278	5.051	ug/L		84
3) Dichlorodifluoromethane	1.075	85	19772	4.792	ug/L		90
4) Chloromethane	1.209	50	23262	5.019	ug/L		96
5) Vinyl Chloride	1.258	62	24773	5.181	ug/L		97
6) Bromomethane	1.465	94	10687	5.606	ug/L		96
7) Chloroethane	1.538	64	17084	5.637	ug/L		88
8) Freon 21	1.672	67	35572	5.517	ug/L		95
9) Trichlorofluoromethane	1.715	101	26879	5.055	ug/L		99
10) Diethyl Ether	1.928	59	19490	5.092	ug/L	#	77
11) Freon 123a	1.934	67	20240m	5.338	ug/L		
12) Freon 123	1.983	83	23182	5.356	ug/L		97
13) Acrolein	2.032	56	12015m	21.533	ug/L		
14) 1,1-Diclethene	2.099	96	15733	5.255	ug/L	#	82
15) Freon 113	2.111	101	16138	5.242	ug/L		94
16) Acetone	2.154	43	16735	5.919	ug/L		89
17) 2-Propanol	2.282	45	59324	106.398	ug/L		97
18) Iodomethane	2.221	142	22807	4.885	ug/L		99
19) Carbon Disulfide	2.276	76	35048	4.755	ug/L		98
20) Acetonitrile/Allyl Chl...	2.404	41	48817	32.815	ug/L		86
21) Methyl Acetate	2.434	43	25374	5.143	ug/L		87
22) Methylene Chloride	2.520	84	20657	4.666	ug/L	#	71
23) TBA	2.654	59	110652	107.071	ug/L		86
24) Acrylonitrile	2.757	53	70279	27.232	ug/L		98
25) Methyl-t-Butyl Ether	2.800	73	61428	5.417	ug/L		90
26) trans-1,2-Dichloroethene	2.782	96	16773	5.107	ug/L	#	83
27) 1,1-Diclethane	3.245	63	35495	5.241	ug/L		95
28) Vinyl Acetate	3.330	86	2814	4.251	ug/L	#	1
29) DIPE	3.361	45	64622	5.404	ug/L		82
30) 2-Chloro-1,3-Butadiene	3.355	53	36811	5.370	ug/L		82
31) ETBE	3.849	59	69514	5.488	ug/L		91
32) 2,2-Dichloropropane	4.007	77	21614m	5.073	ug/L		
33) cis-1,2-Dichloroethene	4.013	96	20275	5.386	ug/L		85
34) 2-Butanone	4.080	43	17252	5.114	ug/L		74
35) Propionitrile	4.160	54	31106	26.989	ug/L		99
36) Bromochloromethane	4.379	130	13778	5.521	ug/L	#	75
37) Methacrylonitrile	4.403	67	11238	5.231	ug/L	#	36
38) Tetrahydrofuran	4.495	42	11572	5.378	ug/L	#	64
39) Chloroform	4.550	83	32504	5.163	ug/L		89
40) 1,1,1-Trichloroethane	4.830	97	28660	5.672	ug/L		93

1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4584.D
Acq On : 31 Jul 2024 04:46 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 31 19:25:13 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) TAME	5.769	73	52432	5.367	ug/L		86
43) Cyclohexane	4.909	41	18812	5.276	ug/L		94
45) Carbontetrachloride	5.129	117	24895	5.170	ug/L		92
46) 1,1-Dichloropropene	5.147	75	23143	5.204	ug/L		94
48) Benzene	5.501	78	70448	5.469	ug/L		88
49) 1,2-Dichloroethane	5.550	62	35068	5.430	ug/L		95
50) Iso-Butyl Alcohol	5.574	43	27761	89.276	ug/L		94
51) n-Heptane	6.025	43	24700	5.091	ug/L	#	79
52) 1-Butanol	6.598	56	46422m	227.782	ug/L		
53) Trichloroethene	6.507	130	20313	5.289	ug/L	#	90
54) Methylcyclohexane	6.745	55	27580	5.089	ug/L	#	68
55) 1,2-Diclpropane	6.805	63	21043	5.367	ug/L		99
56) Dibromomethane	6.952	93	12395	5.041	ug/L		98
57) 1,4-Dioxane	7.043	88	9132m	110.126	ug/L		
58) Methyl Methacrylate	7.062	69	16858	5.145	ug/L	#	53
59) Bromodichloromethane	7.196	83	23235	5.030	ug/L		98
60) 2-Nitropropane	7.500	41	15491	9.383	ug/L		95
61) 2-Chloroethylvinyl Ether	7.622	63	6496	5.129	ug/L		99
62) cis-1,3-Dichloropropene	7.750	75	26918	5.116	ug/L		96
63) 4-Methyl-2-pentanone	7.976	43	31385	5.110	ug/L		84
65) Toluene	8.122	91	77089	5.243	ug/L		93
66) trans-1,3-Dichloropropene	8.409	75	25464	5.040	ug/L		96
67) Ethyl Methacrylate	8.561	69	28523	5.040	ug/L	#	60
68) 1,1,2-Trichloroethane	8.604	97	18459	5.209	ug/L		92
71) Tetrachloroethene	8.726	164	14002	5.295	ug/L	#	87
72) 2-Hexanone	8.915	43	25219	5.335	ug/L		85
73) 1,3-Dichloropropane	8.775	76	31325	5.414	ug/L	#	80
74) Dibromochloromethane	9.000	129	18065	4.836	ug/L		96
75) N-Butyl Acetate	9.073	43	48445	5.345	ug/L		91
76) 1,2-Dibromoethane	9.098	107	20986	5.481	ug/L		93
77) 3-Chlorobenzotrifluoride	9.634	180	22824	5.238	ug/L		94
78) Chlorobenzene	9.598	112	53207	5.295	ug/L		92
79) 4-Chlorobenzotrifluoride	9.683	180	21192	5.249	ug/L		99
80) 1,1,1,2-Tetrachloroethane	9.695	131	19033	5.257	ug/L		98
81) Ethylbenzene	9.726	106	26729	5.290	ug/L		98
82) (m+p)Xylene	9.842	106	66127	10.631	ug/L		98
83) o-Xylene	10.201	106	32681	5.275	ug/L		96
84) Styrene	10.213	104	55576	5.333	ug/L		97
85) Bromoform	10.366	173	10118	4.789	ug/L		100
86) 2-Chlorobenzotrifluoride	10.457	180	23397	5.299	ug/L		99
87) Isopropylbenzene	10.543	105	85922	5.410	ug/L		98
88) Cyclohexanone	10.610	55	117657	100.275	ug/L		92
89) trans-1,4-Dichloro-2-B...	10.860	53	11399	5.086	ug/L		79
91) 1,1,2,2-Tetrachloroethane	10.811	83	27958	5.407	ug/L		95
92) Bromobenzene	10.780	156	21208	5.381	ug/L		90
93) 1,2,3-Trichloropropane	10.835	110	10351	5.520	ug/L		92
94) n-Propylbenzene	10.896	91	96527	5.392	ug/L		98
95) 2-Chlorotoluene	10.957	91	61527	5.465	ug/L		98
96) 3-Chlorotoluene	11.012	91	62314	5.470	ug/L		97
97) 4-Chlorotoluene	11.055	91	71351	5.510	ug/L		98
98) 1,3,5-Trimethylbenzene	11.055	105	74119	5.466	ug/L		98
99) tert-Butylbenzene	11.323	119	62348	5.388	ug/L		98
100) 1,2,4-Trimethylbenzene	11.366	105	74210	5.399	ug/L		100
101) 3,4-Dichlorobenzotrifl...	11.433	214	15461	5.180	ug/L		95
102) sec-Butylbenzene	11.512	105	86551	5.341	ug/L		99
103) p-Isopropyltoluene	11.634	119	75356	5.288	ug/L		99

Quantitation Report (QT Reviewed)

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Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

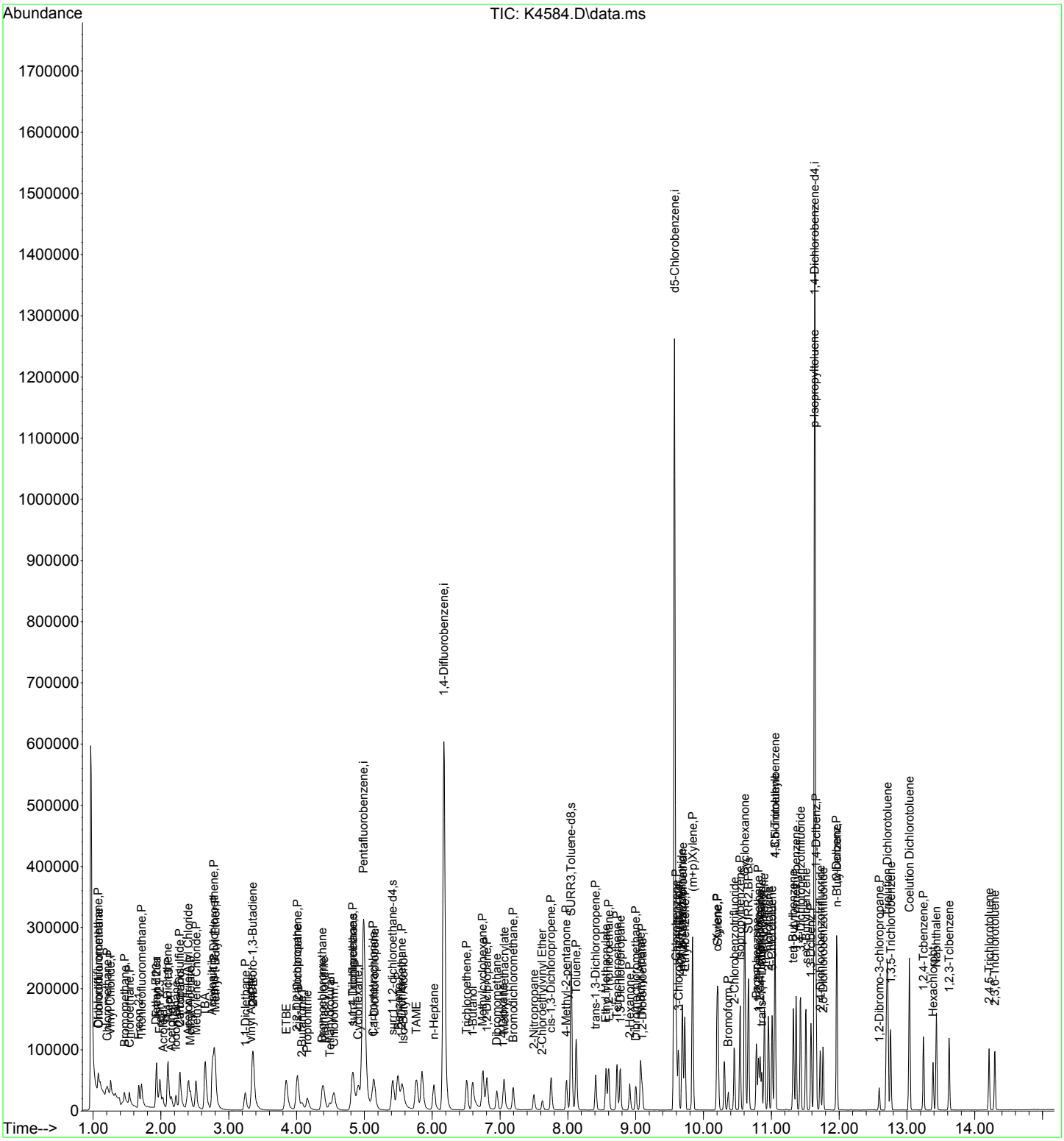
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.585	146	40926	5.422	ug/L	97
105) 1,4-Dclbenz	11.658	146	40093	5.261	ug/L	92
106) 2,4-Dichlorobenzotrifl...	11.725	214	14158	5.386	ug/L	96
107) 2,5-Dichlorobenzotrifl...	11.768	214	15519	5.297	ug/L	93
108) n-Butylbenzene	11.969	91	64605	5.206	ug/L	99
109) 1,2-Dclbenz	11.963	146	39234	5.265	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.591	157	5853	4.758	ug/L	84
111) Trielution Dichlorotol...	12.713	125	112627	16.034	ug/L	94
112) 1,3,5-Trichlorobenzene	12.762	180	26582	5.459	ug/L	95
113) Coelution Dichlorotoluene	13.036	125	80079	10.598	ug/L	97
114) 1,2,4-Tcbenzene	13.243	180	24151	5.115	ug/L	93
115) Hexachlorobt	13.384	225	9018	5.188	ug/L	95
116) Naphthalen	13.432	128	95267	5.335	ug/L	99
117) 1,2,3-Tclbenzene	13.621	180	24129	5.186	ug/L	96
118) 2,4,5-Trichlorotoluene	14.213	159	18909	5.102	ug/L	95
119) 2,3,6-Trichlorotoluene	14.298	159	17717	5.166	ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4584.D
Acq On : 31 Jul 2024 04:46 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 31 19:25:13 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4585.D
Acq On : 31 Jul 2024 05:12 pm
Operator : K.Ruest
Sample : 20ppb
Misc : 8260/624 ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 31 19:25:18 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.995	168	358873	50.00	ug/L		0.00
42) 1,4-Difluorobenzene	6.178	114	610676	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.573	117	537613	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	250351	50.00	ug/L		0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.830	113	68340	17.94	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 35.88%#				
47) surr1,1,2-dichloroetha...	5.422	65	95471	18.34	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 36.68%#				
64) SURR3,Toluene-d8	8.049	98	255641	18.29	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 36.58%#				
69) SURR2,BFB	10.665	95	99946	18.18	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 36.36%#				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.081	51	87705	17.959	ug/L		92
3) Dichlorodifluoromethane	1.075	85	87559	20.888	ug/L		95
4) Chloromethane	1.209	50	87637	18.612	ug/L		97
5) Vinyl Chloride	1.258	62	87834	18.081	ug/L		99
6) Bromomethane	1.471	94	38546	19.901	ug/L		99
7) Chloroethane	1.538	64	59246	19.240	ug/L		95
8) Freon 21	1.672	67	119153	18.190	ug/L		98
9) Trichlorofluoromethane	1.715	101	98566	18.245	ug/L		99
10) Diethyl Ether	1.928	59	67059	17.245	ug/L		84
11) Freon 123a	1.935	67	64327	16.697	ug/L		85
12) Freon 123	1.983	83	79971	18.185	ug/L		97
13) Acrolein	2.026	56	46358	81.774	ug/L		99
14) 1,1-Diclethene	2.105	96	53670	17.643	ug/L	#	75
15) Freon 113	2.111	101	56210	17.970	ug/L		90
16) Acetone	2.154	43	56241	19.579	ug/L		90
17) 2-Propanol	2.282	45	215612	380.612	ug/L		99
18) Iodomethane	2.221	142	85354	17.994	ug/L		99
19) Carbon Disulfide	2.276	76	130639	17.444	ug/L		99
20) Acetonitrile/Allyl Chl...	2.404	41	161242	106.679	ug/L		87
21) Methyl Acetate	2.434	43	89413	17.838	ug/L		85
22) Methylene Chloride	2.520	84	62995	14.007	ug/L	#	70
23) TBA	2.648	59	382133	363.942	ug/L		91
24) Acrylonitrile	2.758	53	235379	89.769	ug/L		99
25) Methyl-t-Butyl Ether	2.800	73	209347	18.171	ug/L		88
26) trans-1,2-Dichloroethene	2.788	96	58953	17.667	ug/L	#	81
27) 1,1-Diclethane	3.245	63	120970	17.580	ug/L		98
28) Vinyl Acetate	3.331	86	10901	16.209	ug/L	#	1
29) DIPE	3.361	45	223374	18.387	ug/L		87
30) 2-Chloro-1,3-Butadiene	3.355	53	125469	18.015	ug/L		82
31) ETBE	3.849	59	232514	18.068	ug/L		91
32) 2,2-Dichloropropane	4.007	77	84501	19.521	ug/L		98
33) cis-1,2-Dichloroethene	4.013	96	67718	17.707	ug/L	#	76
34) 2-Butanone	4.080	43	62330	18.185	ug/L		87
35) Propionitrile	4.154	54	107084	91.449	ug/L		98
36) Bromochloromethane	4.379	130	44861	17.693	ug/L	#	61
37) Methacrylonitrile	4.398	67	38379	17.582	ug/L	#	30
38) Tetrahydrofuran	4.483	42	38258	17.500	ug/L	#	71
39) Chloroform	4.550	83	110882	17.334	ug/L		96
40) 1,1,1-Trichloroethane	4.824	97	100588	19.592	ug/L		93

1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4585.D
Acq On : 31 Jul 2024 05:12 pm
Operator : K.Ruest
Sample : 20ppb
Misc : 8260/624 ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 31 19:25:18 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) TAME	5.763	73	182034	18.339	ug/L		88
43) Cyclohexane	4.910	41	62281	17.322	ug/L		94
45) Carbontetrachloride	5.129	117	83368	17.169	ug/L		97
46) 1,1-Dichloropropene	5.147	75	76211	16.994	ug/L		97
48) Benzene	5.495	78	227746	17.534	ug/L		86
49) 1,2-Dichloroethane	5.544	62	116586	17.904	ug/L		94
50) Iso-Butyl Alcohol	5.562	43	111676	356.155	ug/L		100
51) n-Heptane	6.025	43	83506	17.070	ug/L	#	78
52) 1-Butanol	6.586	56	204850	996.803	ug/L		87
53) Trichloroethene	6.507	130	67590	17.453	ug/L		96
54) Methylcyclohexane	6.751	55	97283	17.802	ug/L	#	72
55) 1,2-Diclpropane	6.806	63	68962	17.442	ug/L		94
56) Dibromomethane	6.952	93	42830	17.274	ug/L		94
57) 1,4-Dioxane	7.037	88	29964	358.347	ug/L		97
58) Methyl Methacrylate	7.056	69	59631	18.049	ug/L	#	62
59) Bromodichloromethane	7.196	83	81350	17.464	ug/L		97
60) 2-Nitropropane	7.501	41	59786	35.912	ug/L		90
61) 2-Chloroethylvinyl Ether	7.623	63	23407	18.329	ug/L		95
62) cis-1,3-Dichloropropene	7.757	75	97086	18.300	ug/L		98
63) 4-Methyl-2-pentanone	7.976	43	113983	18.403	ug/L		86
65) Toluene	8.122	91	251338	16.951	ug/L		95
66) trans-1,3-Dichloropropene	8.409	75	91267	17.913	ug/L		97
67) Ethyl Methacrylate	8.561	69	100720	17.649	ug/L	#	67
68) 1,1,2-Trichloroethane	8.604	97	63474	17.764	ug/L		97
71) Tetrachloroethene	8.726	164	45203	17.051	ug/L		95
72) 2-Hexanone	8.909	43	88940	18.770	ug/L		85
73) 1,3-Dichloropropane	8.775	76	103558	17.854	ug/L	#	79
74) Dibromochloromethane	9.000	129	67323	17.979	ug/L		97
75) N-Butyl Acetate	9.073	43	175580	19.324	ug/L		87
76) 1,2-Dibromoethane	9.098	107	70583	18.389	ug/L		99
77) 3-Chlorobenzotrifluoride	9.634	180	75706	17.331	ug/L		89
78) Chlorobenzene	9.598	112	170916	16.966	ug/L		94
79) 4-Chlorobenzotrifluoride	9.689	180	69824	17.252	ug/L		96
80) 1,1,1,2-Tetrachloroethane	9.695	131	65927	18.163	ug/L		98
81) Ethylbenzene	9.726	106	89237	17.618	ug/L		96
82) (m+p)Xylene	9.842	106	223663	35.871	ug/L		97
83) o-Xylene	10.201	106	107636	17.332	ug/L		92
84) Styrene	10.220	104	189563	18.146	ug/L		97
85) Bromoform	10.366	173	37737	17.819	ug/L		99
86) 2-Chlorobenzotrifluoride	10.457	180	77247	17.452	ug/L		96
87) Isopropylbenzene	10.543	105	282054	17.715	ug/L		98
88) Cyclohexanone	10.610	55	465329	395.611	ug/L		92
89) trans-1,4-Dichloro-2-B...	10.860	53	42168	18.768	ug/L		79
91) 1,1,2,2-Tetrachloroethane	10.811	83	96093	18.340	ug/L		99
92) Bromobenzene	10.781	156	70521	17.658	ug/L	#	88
93) 1,2,3-Trichloropropane	10.835	110	34865	18.350	ug/L	#	84
94) n-Propylbenzene	10.896	91	324754	17.901	ug/L		99
95) 2-Chlorotoluene	10.957	91	201259	17.640	ug/L		99
96) 3-Chlorotoluene	11.012	91	204933	17.754	ug/L		96
97) 4-Chlorotoluene	11.055	91	242157	18.453	ug/L		96
98) 1,3,5-Trimethylbenzene	11.055	105	244950	17.828	ug/L		99
99) tert-Butylbenzene	11.329	119	206854	17.640	ug/L		97
100) 1,2,4-Trimethylbenzene	11.366	105	249852	17.937	ug/L		98
101) 3,4-Dichlorobenzotrifl...	11.433	214	52830	17.466	ug/L		95
102) sec-Butylbenzene	11.512	105	293702	17.888	ug/L		98
103) p-Isopropyltoluene	11.634	119	262178	18.157	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4585.D
Acq On : 31 Jul 2024 05:12 pm
Operator : K.Ruest
Sample : 20ppb
Misc : 8260/624 ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 31 19:25:18 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

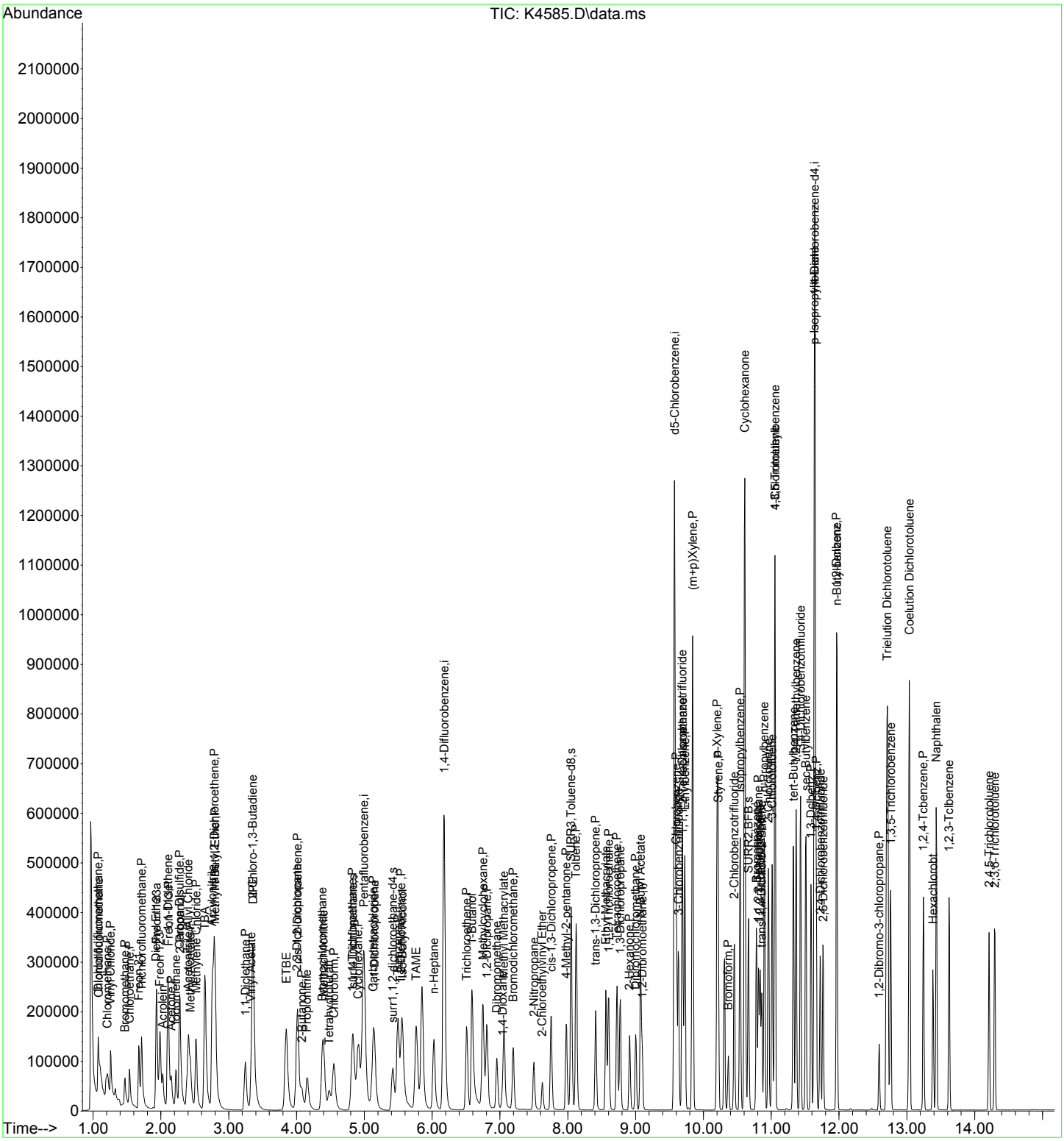
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.585	146	134004	17.520	ug/L	99
105) 1,4-Dclbenz	11.665	146	137913	17.858	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.725	214	46678	17.525	ug/L	97
107) 2,5-Dichlorobenzotrifl...	11.768	214	51315	17.284	ug/L	99
108) n-Butylbenzene	11.969	91	229906	18.283	ug/L	98
109) 1,2-Dclbenz	11.963	146	133938	17.736	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.591	157	24334	19.520	ug/L	95
111) Trielution Dichlorotol...	12.713	125	388966	54.646	ug/L	96
112) 1,3,5-Trichlorobenzene	12.762	180	88351	17.905	ug/L	98
113) Coelution Dichlorotoluene	13.036	125	286820	37.462	ug/L	97
114) 1,2,4-Tcbenzene	13.243	180	87104	18.206	ug/L	99
115) Hexachlorobt	13.384	225	31896	18.110	ug/L	96
116) Naphthalen	13.432	128	346989	19.178	ug/L	99
117) 1,2,3-Tclbenzene	13.621	180	86242	18.291	ug/L	96
118) 2,4,5-Trichlorotoluene	14.213	159	70042	18.648	ug/L	95
119) 2,3,6-Trichlorotoluene	14.298	159	67405	19.397	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4585.D
Acq On : 31 Jul 2024 05:12 pm
Operator : K.Ruest
Sample : 20ppb
Misc : 8260/624 ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 31 19:25:18 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4586.D
Acq On : 31 Jul 2024 05:37 pm
Operator : K.Ruest
Sample : 50ppb
Misc : 8260/624 ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 31 19:25:23 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.995	168	363476	50.00	ug/L		0.00
42) 1,4-Difluorobenzene	6.178	114	621116	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.573	117	558886	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	279249	50.00	ug/L		0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.830	113	197847	51.06	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 102.12%				
47) surr1,1,2-dichloroetha...	5.416	65	271038	51.18	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.36%				
64) SURR3,Toluene-d8	8.049	98	722177	50.79	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.58%				
69) SURR2,BFB	10.665	95	286273	51.21	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.42%				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.081	51	243593	49.247	ug/L		90
3) Dichlorodifluoromethane	1.075	85	241158	56.803	ug/L		96
4) Chloromethane	1.209	50	242008	50.747	ug/L		97
5) Vinyl Chloride	1.264	62	244305	49.655	ug/L		97
6) Bromomethane	1.465	94	97642	49.772	ug/L		99
7) Chloroethane	1.532	64	162994	52.261	ug/L		96
8) Freon 21	1.672	67	322048	48.541	ug/L		98
9) Trichlorofluoromethane	1.715	101	271772	49.669	ug/L		98
10) Diethyl Ether	1.935	59	189053	48.003	ug/L		85
11) Freon 123a	1.935	67	175298	44.926	ug/L		87
12) Freon 123	1.989	83	221260	49.676	ug/L		99
13) Acrolein	2.026	56	153666	267.628	ug/L		99
14) 1,1-Diclethene	2.105	96	149701	48.589	ug/L	#	79
15) Freon 113	2.105	101	154039	48.622	ug/L		92
16) Acetone	2.154	43	147713	50.772	ug/L		91
17) 2-Propanol	2.282	45	578688	1008.601	ug/L		99
18) Iodomethane	2.221	142	250698	52.182	ug/L		97
19) Carbon Disulfide	2.276	76	388592	51.230	ug/L		100
20) Acetonitrile/Allyl Chl...	2.404	41	446733	291.820	ug/L		88
21) Methyl Acetate	2.434	43	251798	49.599	ug/L		83
22) Methylene Chloride	2.520	84	170716	37.477	ug/L	#	71
23) TBA	2.654	59	1077602	1013.306	ug/L		91
24) Acrylonitrile	2.758	53	660738	248.800	ug/L		99
25) Methyl-t-Butyl Ether	2.800	73	574598	49.242	ug/L		86
26) trans-1,2-Dichloroethene	2.782	96	164373	48.636	ug/L	#	78
27) 1,1-Diclethane	3.245	63	341798	49.042	ug/L		98
28) Vinyl Acetate	3.331	86	32718	48.034	ug/L	#	1
29) DIPE	3.361	45	594998	48.356	ug/L		88
30) 2-Chloro-1,3-Butadiene	3.355	53	352679	49.997	ug/L		77
31) ETBE	3.849	59	634723	48.698	ug/L		90
32) 2,2-Dichloropropane	4.007	77	246065	56.126	ug/L		99
33) cis-1,2-Dichloroethene	4.019	96	189791	48.997	ug/L	#	78
34) 2-Butanone	4.080	43	176436	50.824	ug/L		83
35) Propionitrile	4.160	54	293565	247.526	ug/L		99
36) Bromochloromethane	4.385	130	125853	49.008	ug/L	#	74
37) Methacrylonitrile	4.397	67	111431	50.402	ug/L	#	48
38) Tetrahydrofuran	4.477	42	108500	49.002	ug/L	#	70
39) Chloroform	4.550	83	306222	47.266	ug/L		96
40) 1,1,1-Trichloroethane	4.830	97	282826	54.390	ug/L		95

1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4586.D
Acq On : 31 Jul 2024 05:37 pm
Operator : K.Ruest
Sample : 50ppb
Misc : 8260/624 ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 31 19:25:23 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) TAME	5.763	73	490781	48.818	ug/L		86
43) Cyclohexane	4.910	41	168527	46.084	ug/L		93
45) Carbontetrachloride	5.129	117	246914	49.994	ug/L		98
46) 1,1-Dichloropropene	5.147	75	212597	46.610	ug/L		98
48) Benzene	5.495	78	633311	47.938	ug/L		86
49) 1,2-Dichloroethane	5.550	62	313528	47.338	ug/L		94
50) Iso-Butyl Alcohol	5.562	43	342908	1075.213	ug/L		96
51) n-Heptane	6.025	43	229735	46.171	ug/L	#	77
52) 1-Butanol	6.586	56	628129	3005.110	ug/L		86
53) Trichloroethene	6.507	130	192241	48.805	ug/L		98
54) Methylcyclohexane	6.751	55	270904	48.741	ug/L	#	73
55) 1,2-Diclpropane	6.806	63	193800	48.191	ug/L		95
56) Dibromomethane	6.952	93	123812	49.095	ug/L		93
57) 1,4-Dioxane	7.037	88	85881	1009.808	ug/L		87
58) Methyl Methacrylate	7.062	69	166677	49.603	ug/L	#	66
59) Bromodichloromethane	7.196	83	236724	49.966	ug/L		99
60) 2-Nitropropane	7.501	41	182268	107.643	ug/L		95
61) 2-Chloroethylvinyl Ether	7.623	63	64685	49.800	ug/L		93
62) cis-1,3-Dichloropropene	7.757	75	276676	51.276	ug/L		99
63) 4-Methyl-2-pentanone	7.976	43	320288	50.842	ug/L		87
65) Toluene	8.122	91	712947	47.274	ug/L		98
66) trans-1,3-Dichloropropene	8.415	75	267376	51.595	ug/L		99
67) Ethyl Methacrylate	8.561	69	289033	49.794	ug/L	#	63
68) 1,1,2-Trichloroethane	8.604	97	177581	48.863	ug/L		99
71) Tetrachloroethene	8.726	164	130261	47.266	ug/L		97
72) 2-Hexanone	8.909	43	251229	51.000	ug/L		84
73) 1,3-Dichloropropane	8.775	76	289111	47.948	ug/L	#	79
74) Dibromochloromethane	9.000	129	200643	51.544	ug/L		98
75) N-Butyl Acetate	9.073	43	479359	50.749	ug/L		90
76) 1,2-Dibromoethane	9.098	107	197658	49.537	ug/L		99
77) 3-Chlorobenzotrifluoride	9.634	180	208214	45.850	ug/L		92
78) Chlorobenzene	9.604	112	484837	46.296	ug/L		98
79) 4-Chlorobenzotrifluoride	9.689	180	190081	45.177	ug/L		94
80) 1,1,1,2-Tetrachloroethane	9.695	131	189183	50.136	ug/L		99
81) Ethylbenzene	9.726	106	254369	48.308	ug/L		99
82) (m+p)Xylene	9.842	106	635191	97.993	ug/L		98
83) o-Xylene	10.201	106	316753	49.064	ug/L		94
84) Styrene	10.220	104	547558	50.421	ug/L		98
85) Bromoform	10.366	173	121756	55.302	ug/L		100
86) 2-Chlorobenzotrifluoride	10.457	180	210069	45.654	ug/L		95
87) Isopropylbenzene	10.543	105	825023	49.846	ug/L		99
88) Cyclohexanone	10.610	55	1297717	1061.291	ug/L		95
89) trans-1,4-Dichloro-2-B...	10.860	53	119212	51.040	ug/L		84
91) 1,1,2,2-Tetrachloroethane	10.811	83	267208	45.720	ug/L		99
92) Bromobenzene	10.780	156	201638	45.265	ug/L	#	88
93) 1,2,3-Trichloropropane	10.835	110	98978	46.703	ug/L		90
94) n-Propylbenzene	10.902	91	942226	46.563	ug/L		99
95) 2-Chlorotoluene	10.957	91	575711	45.239	ug/L		99
96) 3-Chlorotoluene	11.012	91	572851	44.492	ug/L		97
97) 4-Chlorotoluene	11.055	91	668527	45.672	ug/L		98
98) 1,3,5-Trimethylbenzene	11.055	105	723140	47.185	ug/L		98
99) tert-Butylbenzene	11.329	119	606750	46.388	ug/L		99
100) 1,2,4-Trimethylbenzene	11.366	105	725485	46.694	ug/L		98
101) 3,4-Dichlorobenzotrifl...	11.433	214	149527	44.319	ug/L		94
102) sec-Butylbenzene	11.512	105	857119	46.800	ug/L		99
103) p-Isopropyltoluene	11.634	119	778252	48.319	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4586.D
Acq On : 31 Jul 2024 05:37 pm
Operator : K.Ruest
Sample : 50ppb
Misc : 8260/624 ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 31 19:25:23 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

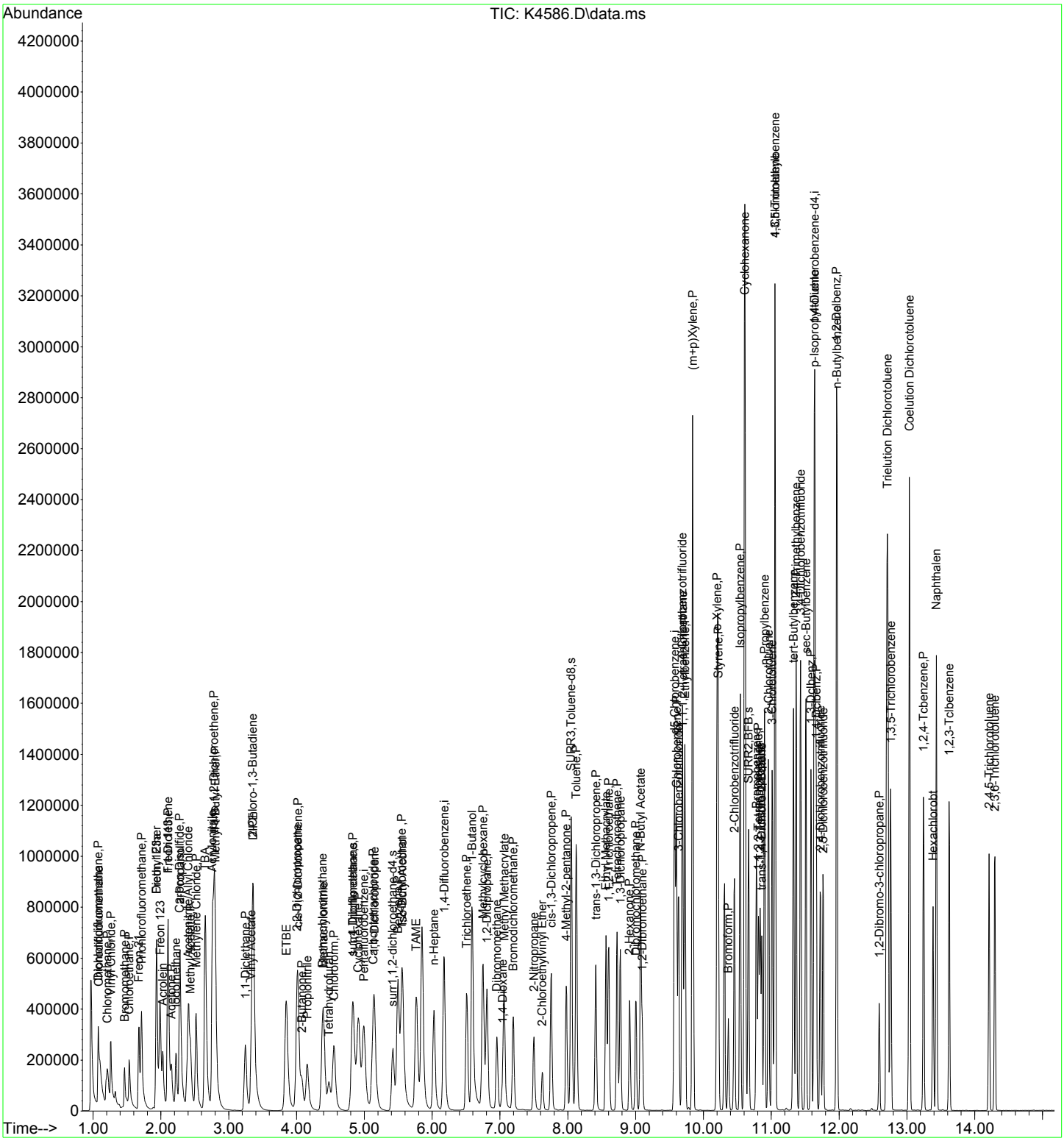
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.585	146	393453	46.117	ug/L	98
105) 1,4-Dclbenz	11.664	146	399058	46.325	ug/L	97
106) 2,4-Dichlorobenzotrifl...	11.725	214	133648	44.985	ug/L	96
107) 2,5-Dichlorobenzotrifl...	11.768	214	149097	45.021	ug/L	99
108) n-Butylbenzene	11.969	91	669613	47.740	ug/L	98
109) 1,2-Dclbenz	11.963	146	392551	46.602	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.591	157	77380	55.649	ug/L	95
111) Trielution Dichlorotol...	12.713	125	1109179	139.703	ug/L	96
112) 1,3,5-Trichlorobenzene	12.762	180	253317	46.024	ug/L	98
113) Coelution Dichlorotoluene	13.036	125	797609	93.395	ug/L	95
114) 1,2,4-Tcbenzene	13.243	180	257284	48.210	ug/L	95
115) Hexachlorobt	13.384	225	91072	46.358	ug/L	97
116) Naphthalen	13.432	128	1014693	50.278	ug/L	99
117) 1,2,3-Tclbenzene	13.621	180	250571	47.644	ug/L	97
118) 2,4,5-Trichlorotoluene	14.213	159	198384	47.353	ug/L	95
119) 2,3,6-Trichlorotoluene	14.298	159	190326	49.103	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4586.D
Acq On : 31 Jul 2024 05:37 pm
Operator : K.Ruest
Sample : 50ppb
Misc : 8260/624 ICAL
ALS Vial : 6 Sample Multiplier: 1

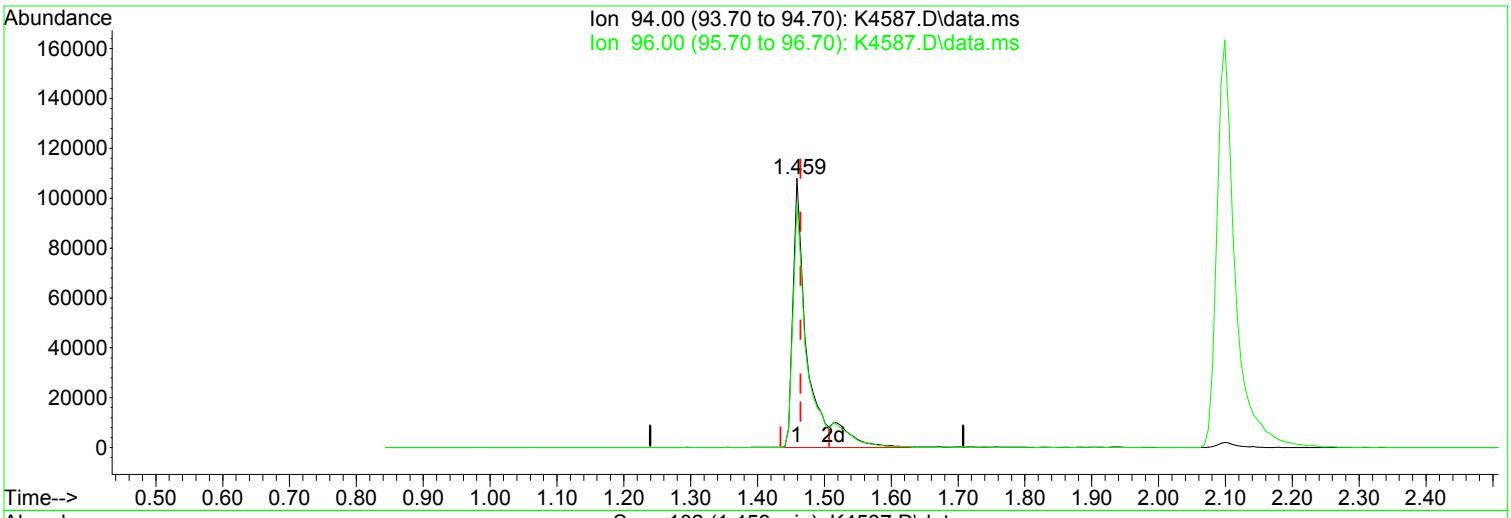
Quant Time: Jul 31 19:25:23 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

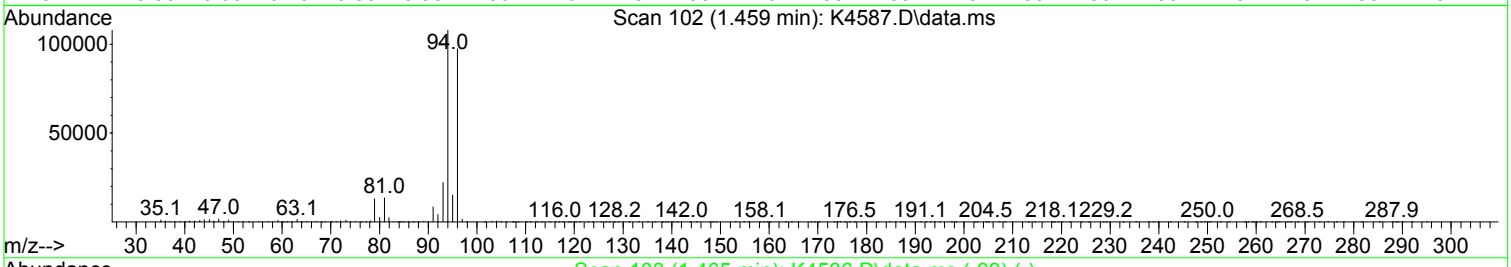


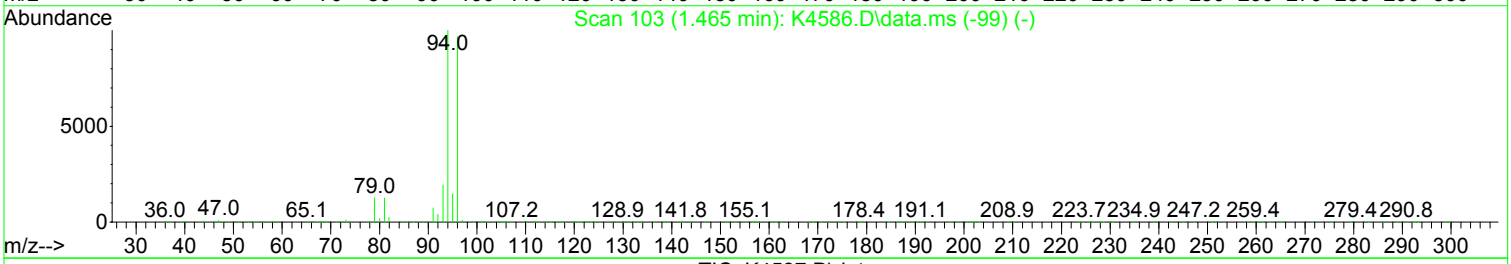
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4587.D
Acq On : 31 Jul 2024 06:02 pm
Operator : K.Ruest
Sample : 100ppb
Misc : 8260/624 ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 31 19:25:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4587.D\data.ms

(6) Bromomethane (P)

1.459min (-0.006) 85.65 ug/L m

response 165103

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	95.80	90.31
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

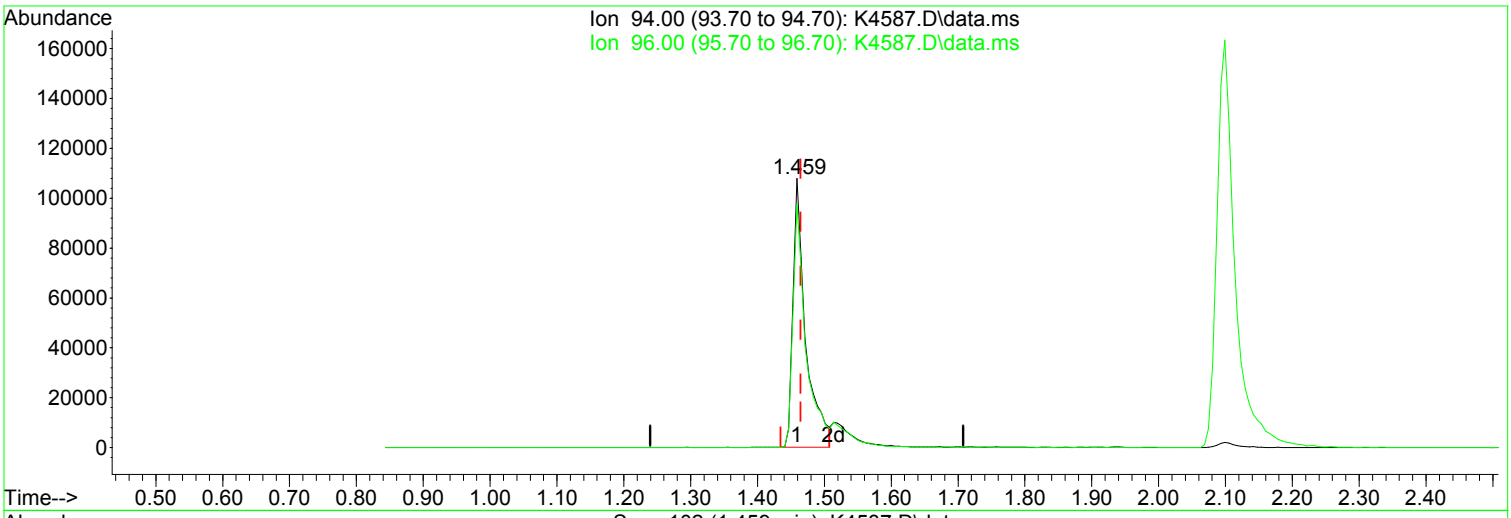
Split Peak.

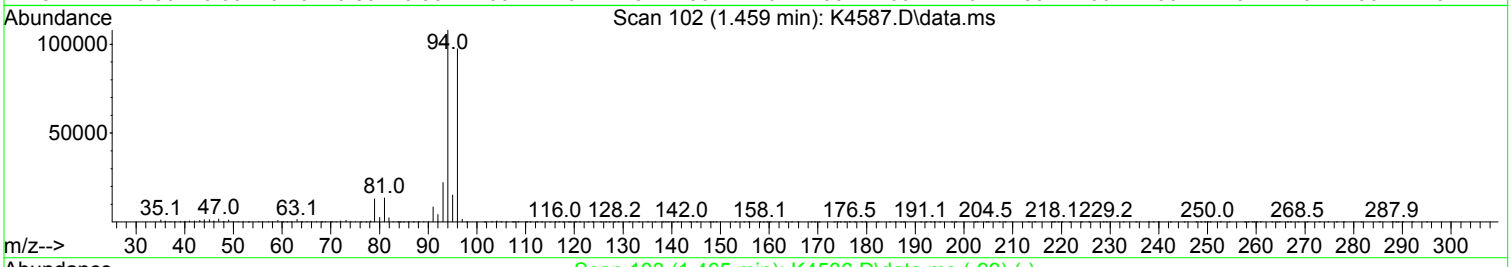
08/01/24

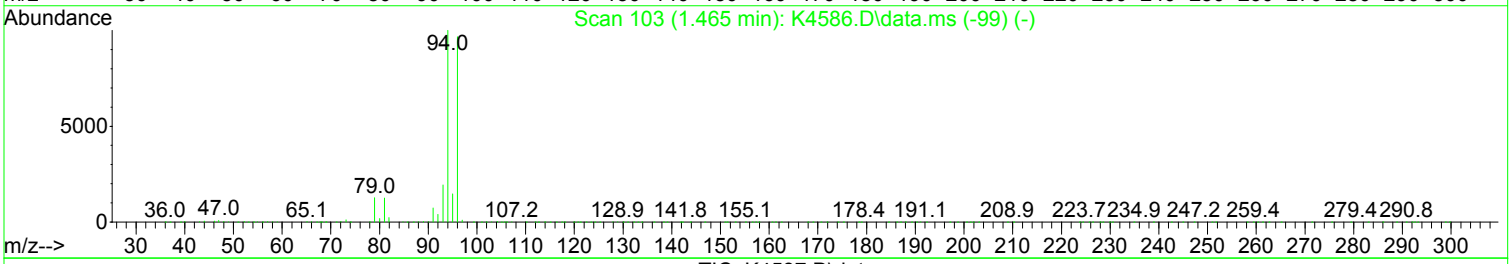
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4587.D
Acq On : 31 Jul 2024 06:02 pm
Operator : K.Ruest
Sample : 100ppb
Misc : 8260/624 ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 31 19:25:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4587.D\data.ms

(6) Bromomethane (P)

1.459min (-0.006) 73.75 ug/L

response 142167

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	95.80	90.31
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

08/01/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4587.D
Acq On : 31 Jul 2024 06:02 pm
Operator : K.Ruest
Sample : 100ppb
Misc : 8260/624 ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 31 19:25:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.989	168	357137	50.00	ug/L		0.00
42) 1,4-Difluorobenzene	6.172	114	608684	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.573	117	568337	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.646	152	279728	50.00	ug/L		0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.830	113	397765	104.76	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 209.52%#				
47) surr1,1,2-dichloroetha...	5.416	65	531481	102.41	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 204.82%#				
64) SURR3,Toluene-d8	8.049	98	1411833	101.33	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 202.66%#				
69) SURR2,BFB	10.665	95	552535	100.86	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 201.72%#				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.081	51	470840	96.879	ug/L		90
3) Dichlorodifluoromethane	1.075	85	484645	116.181	ug/L		96
4) Chloromethane	1.209	50	499691	106.640	ug/L		98
5) Vinyl Chloride	1.258	62	504429	104.345	ug/L		96
6) Bromomethane	1.459	94	165103m	85.654	ug/L		
7) Chloroethane	1.526	64	320012	104.426	ug/L		95
8) Freon 21	1.672	67	635695	97.517	ug/L		98
9) Trichlorofluoromethane	1.709	101	535515	99.608	ug/L		99
10) Diethyl Ether	1.928	59	386603	99.905	ug/L		82
11) Freon 123a	1.935	67	330322	86.158	ug/L		91
12) Freon 123	1.983	83	438145	100.115	ug/L		100
13) Acrolein	2.026	56	341137	604.678	ug/L		98
14) 1,1-Diclethene	2.099	96	310726	102.644	ug/L	#	83
15) Freon 113	2.105	101	307715	98.853	ug/L		98
16) Acetone	2.154	43	283335	99.118	ug/L		93
17) 2-Propanol	2.288	45	1196598	2122.579	ug/L		96
18) Iodomethane	2.221	142	501306	106.197	ug/L		100
19) Carbon Disulfide	2.270	76	811857	108.930	ug/L		99
20) Acetonitrile/Allyl Chl...	2.404	41	957474	636.553	ug/L		86
21) Methyl Acetate	2.434	43	498090	99.855	ug/L		86
22) Methylene Chloride	2.514	84	339077	75.758	ug/L	#	68
23) TBA	2.660	59	2300828	2201.950	ug/L		93
24) Acrylonitrile	2.758	53	1356473	519.845	ug/L		100
25) Methyl-t-Butyl Ether	2.794	73	1168377	101.904	ug/L		88
26) trans-1,2-Dichloroethene	2.782	96	337400	101.604	ug/L	#	79
27) 1,1-Diclethane	3.239	63	696079	101.647	ug/L		98
28) Vinyl Acetate	3.331	86	81591	121.912	ug/L	#	1
29) DIPE	3.361	45	1215057	100.502	ug/L		85
30) 2-Chloro-1,3-Butadiene	3.349	53	699704	100.953	ug/L		79
31) ETBE	3.849	59	1292025	100.888	ug/L		91
32) 2,2-Dichloropropane	4.007	77	515824	119.744	ug/L		98
33) cis-1,2-Dichloroethene	4.013	96	385929	101.402	ug/L	#	76
34) 2-Butanone	4.074	43	350602	102.786	ug/L		84
35) Propionitrile	4.160	54	619261	531.413	ug/L		100
36) Bromochloromethane	4.379	130	256591	101.693	ug/L	#	73
37) Methacrylonitrile	4.404	67	230712	106.207	ug/L	#	48
38) Tetrahydrofuran	4.477	42	224310	103.103	ug/L	#	71
39) Chloroform	4.550	83	624989	98.181	ug/L		96
40) 1,1,1-Trichloroethane	4.824	97	573760	112.297	ug/L		96

1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4587.D
Acq On : 31 Jul 2024 06:02 pm
Operator : K.Ruest
Sample : 100ppb
Misc : 8260/624 ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 31 19:25:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) TAME	5.763	73	1004328	101.674	ug/L		88
43) Cyclohexane	4.910	41	332128	92.676	ug/L		91
45) Carbontetrachloride	5.129	117	501346	103.584	ug/L		98
46) 1,1-Dichloropropene	5.141	75	433110	96.895	ug/L		98
48) Benzene	5.495	78	1290813	99.703	ug/L		86
49) 1,2-Dichloroethane	5.544	62	634258	97.719	ug/L		94
50) Iso-Butyl Alcohol	5.568	43	748366	2394.484	ug/L		99
51) n-Heptane	6.025	43	476356	97.691	ug/L	#	77
52) 1-Butanol	6.598	56	1338289	6533.445	ug/L		88
53) Trichloroethene	6.507	130	387538	100.395	ug/L		98
54) Methylcyclohexane	6.745	55	528091	96.955	ug/L	#	76
55) 1,2-Diclpropane	6.806	63	391944	99.453	ug/L		97
56) Dibromomethane	6.952	93	253727	102.664	ug/L		95
57) 1,4-Dioxane	7.037	88	178721	2144.363	ug/L		80
58) Methyl Methacrylate	7.062	69	348324	105.778	ug/L	#	65
59) Bromodichloromethane	7.196	83	489492	105.429	ug/L		99
60) 2-Nitropropane	7.501	41	387956	233.798	ug/L		93
61) 2-Chloroethylvinyl Ether	7.622	63	127025	99.792	ug/L		92
62) cis-1,3-Dichloropropene	7.751	75	576766	109.075	ug/L		99
63) 4-Methyl-2-pentanone	7.976	43	635432	102.927	ug/L		88
65) Toluene	8.122	91	1434313	97.049	ug/L		98
66) trans-1,3-Dichloropropene	8.409	75	556593	109.598	ug/L		98
67) Ethyl Methacrylate	8.561	69	610480	107.321	ug/L	#	64
68) 1,1,2-Trichloroethane	8.604	97	361155	101.406	ug/L		98
71) Tetrachloroethene	8.726	164	267049	95.288	ug/L		95
72) 2-Hexanone	8.909	43	509844	101.779	ug/L		88
73) 1,3-Dichloropropane	8.775	76	579140	94.452	ug/L	#	79
74) Dibromochloromethane	9.000	129	427487	107.992	ug/L		99
75) N-Butyl Acetate	9.073	43	956258	99.553	ug/L		90
76) 1,2-Dibromoethane	9.098	107	403027	99.327	ug/L		100
77) 3-Chlorobenzotrifluoride	9.634	180	440940	95.483	ug/L		93
78) Chlorobenzene	9.598	112	991966	93.145	ug/L		96
79) 4-Chlorobenzotrifluoride	9.689	180	404181	94.465	ug/L		96
80) 1,1,1,2-Tetrachloroethane	9.695	131	395392	103.042	ug/L		96
81) Ethylbenzene	9.726	106	523577	97.780	ug/L		96
82) (m+p)Xylene	9.842	106	1274226	193.310	ug/L		100
83) o-Xylene	10.201	106	643665	98.044	ug/L		97
84) Styrene	10.220	104	1137229	102.979	ug/L		97
85) Bromoform	10.366	173	270865	120.983	ug/L		100
86) 2-Chlorobenzotrifluoride	10.457	180	448671	95.888	ug/L		95
87) Isopropylbenzene	10.543	105	1668331	99.121	ug/L		100
88) Cyclohexanone	10.610	55	2681676	2156.642	ug/L		95
89) trans-1,4-Dichloro-2-B...	10.860	53	259868	109.411	ug/L		86
91) 1,1,2,2-Tetrachloroethane	10.811	83	563520	96.254	ug/L		99
92) Bromobenzene	10.780	156	416057	93.240	ug/L	#	89
93) 1,2,3-Trichloropropane	10.835	110	204015	96.100	ug/L	#	89
94) n-Propylbenzene	10.902	91	1904835	93.972	ug/L		100
95) 2-Chlorotoluene	10.957	91	1173741	92.074	ug/L		99
96) 3-Chlorotoluene	11.012	91	1193475	92.536	ug/L		97
97) 4-Chlorotoluene	11.055	91	1361017	92.821	ug/L		98
98) 1,3,5-Trimethylbenzene	11.055	105	1446319	94.211	ug/L		99
99) tert-Butylbenzene	11.329	119	1241764	94.774	ug/L		98
100) 1,2,4-Trimethylbenzene	11.366	105	1488520	95.641	ug/L		98
101) 3,4-Dichlorobenzotrifl...	11.433	214	311554	92.185	ug/L		97
102) sec-Butylbenzene	11.512	105	1748618	95.313	ug/L		98
103) p-Isopropyltoluene	11.634	119	1539032	95.391	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4587.D
Acq On : 31 Jul 2024 06:02 pm
Operator : K.Ruest
Sample : 100ppb
Misc : 8260/624 ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 31 19:25:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

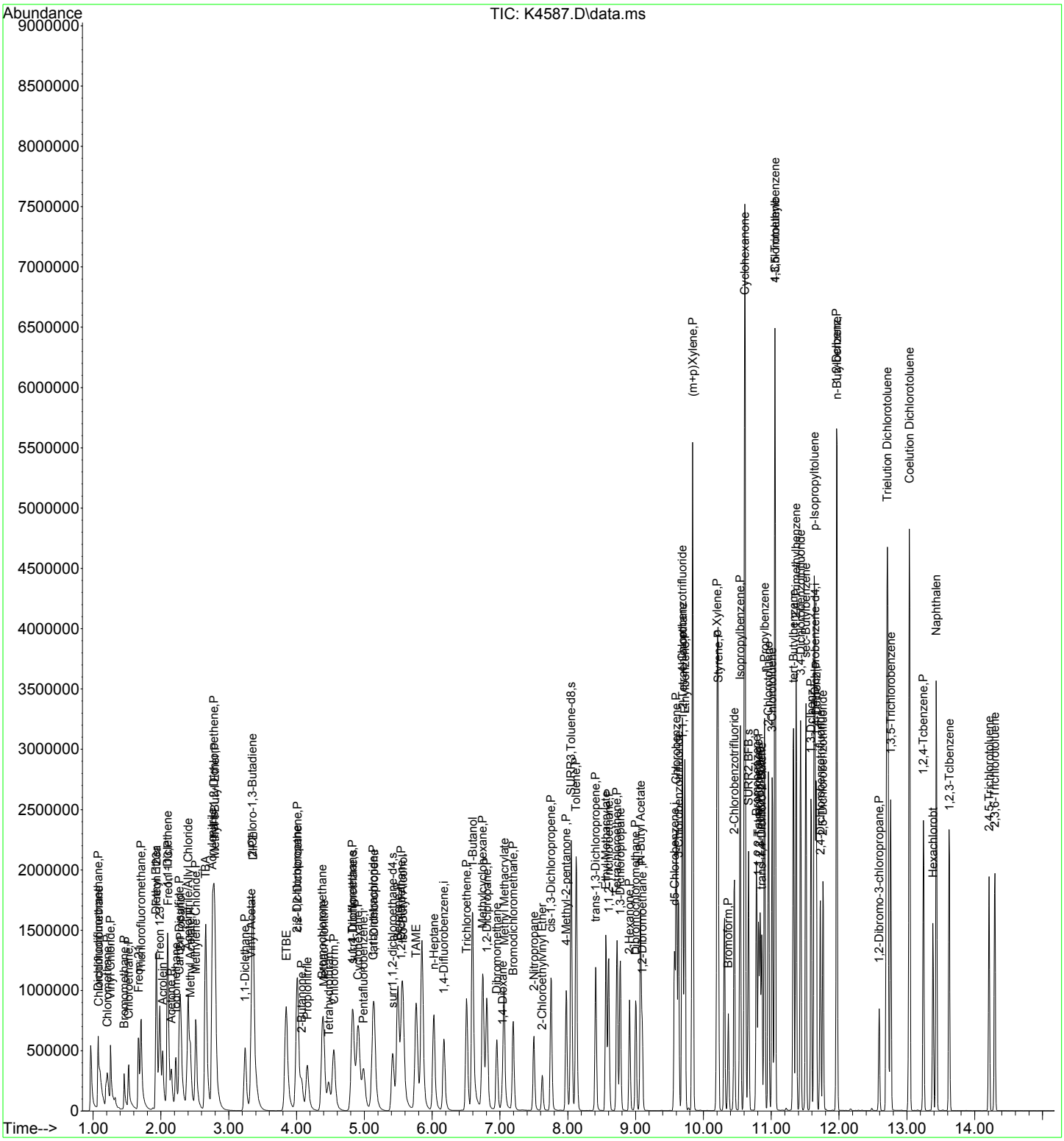
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.585	146	817006	95.599	ug/L	98
105) 1,4-Dclbenz	11.664	146	809191	93.776	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.725	214	276717	92.981	ug/L	96
107) 2,5-Dichlorobenzotrifl...	11.762	214	312122	94.087	ug/L	95
108) n-Butylbenzene	11.969	91	1344541	95.694	ug/L	98
109) 1,2-Dclbenz	11.963	146	806688	95.603	ug/L	97
110) 1,2-Dibromo-3-chloropr...	12.591	157	165008	118.465	ug/L	94
111) Trielution Dichlorotol...	12.713	125	2213886	278.365	ug/L	97
112) 1,3,5-Trichlorobenzene	12.762	180	506876	91.935	ug/L	99
113) Coelution Dichlorotoluene	13.036	125	1599194	186.935	ug/L	97
114) 1,2,4-Tcbenzene	13.243	180	508057	95.037	ug/L	96
115) Hexachlorobt	13.384	225	181615	92.289	ug/L	97
116) Naphthalen	13.432	128	2029659	100.397	ug/L	99
117) 1,2,3-Tclbenzene	13.628	180	498131	94.552	ug/L	99
118) 2,4,5-Trichlorotoluene	14.213	159	388837	92.654	ug/L	99
119) 2,3,6-Trichlorotoluene	14.298	159	370240	95.356	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4587.D
Acq On : 31 Jul 2024 06:02 pm
Operator : K.Ruest
Sample : 100ppb
Misc : 8260/624 ICAL
ALS Vial : 7 Sample Multiplier: 1

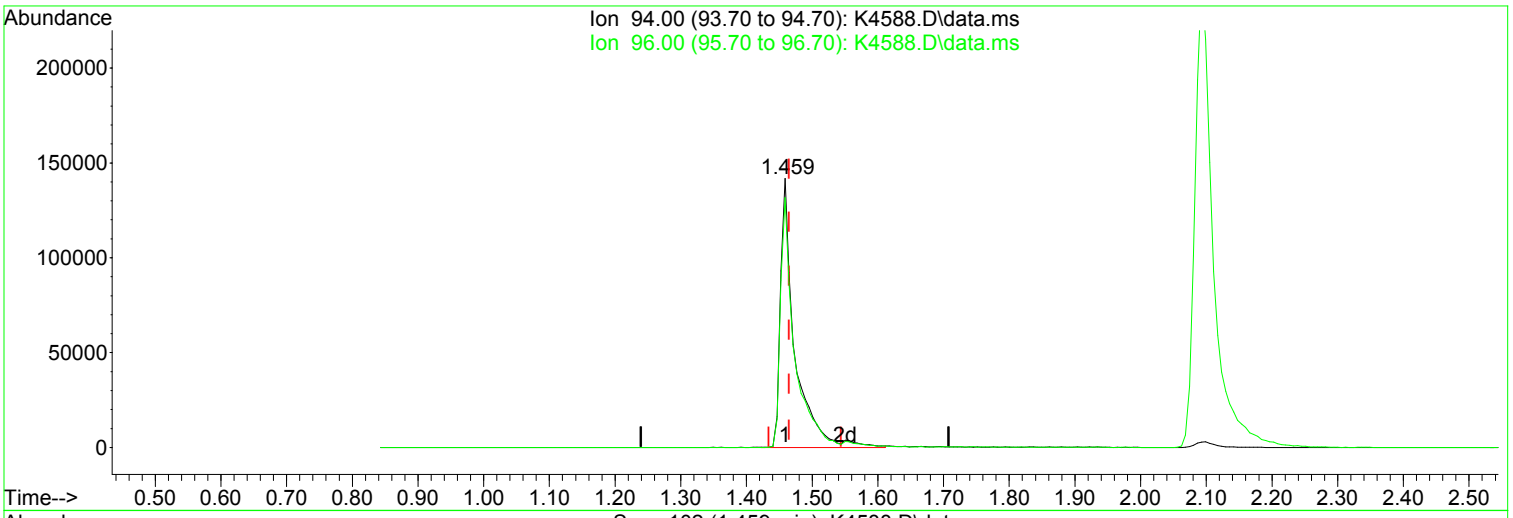
Quant Time: Jul 31 19:25:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

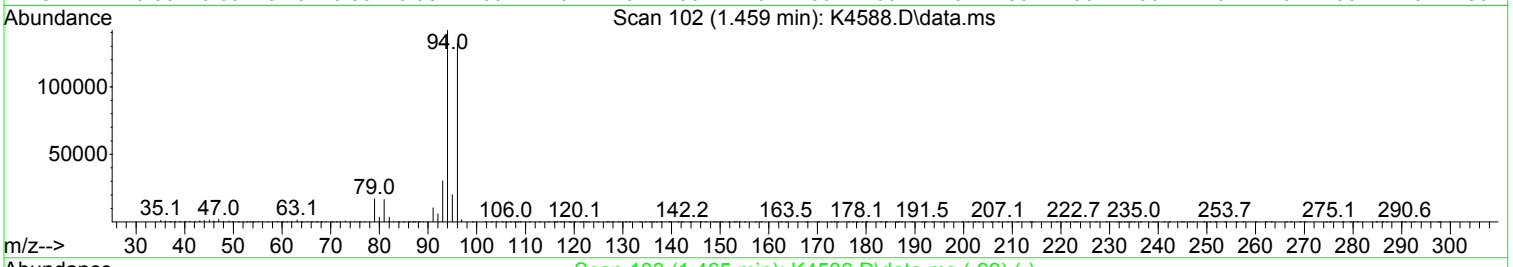


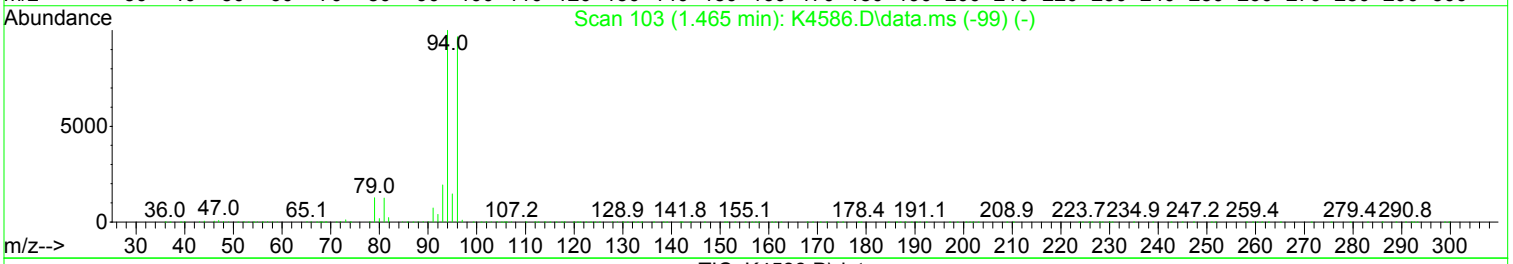
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4588.D
Acq On : 31 Jul 2024 06:27 pm
Operator : K.Ruest
Sample : 150ppb
Misc : 8260/624 ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 31 19:25:33 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4588.D\data.ms

(6) Bromomethane (P)

1.459min (-0.006) 112.75 ug/L m

response 217207

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	95.80	92.91
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

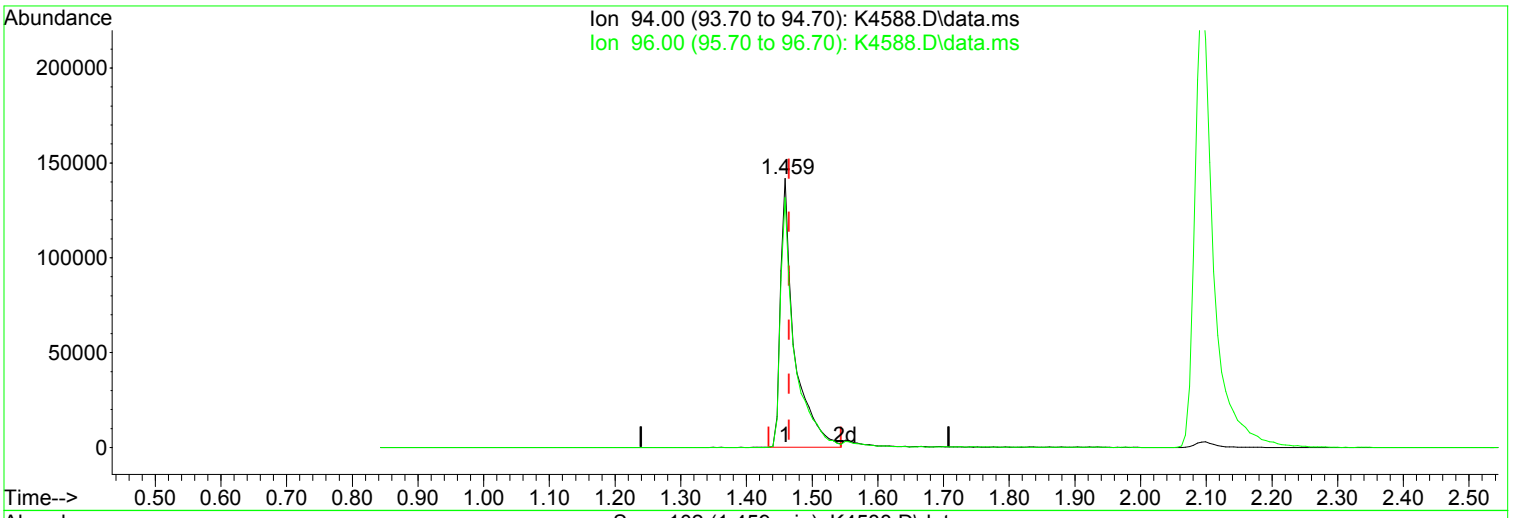
Poor integration.

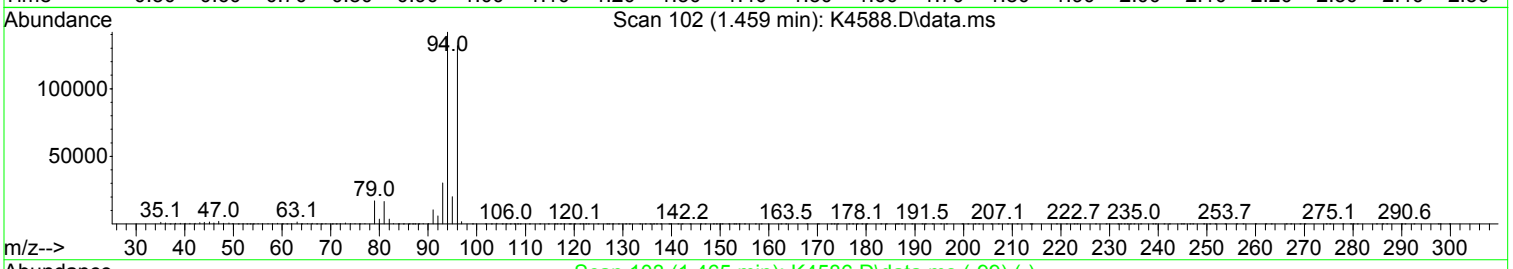
08/01/24

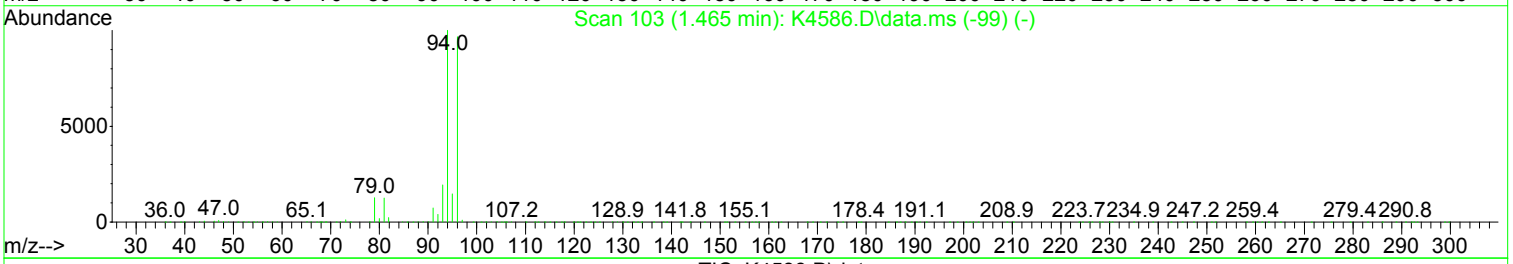
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4588.D
Acq On : 31 Jul 2024 06:27 pm
Operator : K.Ruest
Sample : 150ppb
Misc : 8260/624 ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 31 19:25:33 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4588.D\data.ms

(6) Bromomethane (P)

1.459min (-0.006) 108.09 ug/L

response 208237

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	95.80	92.91
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

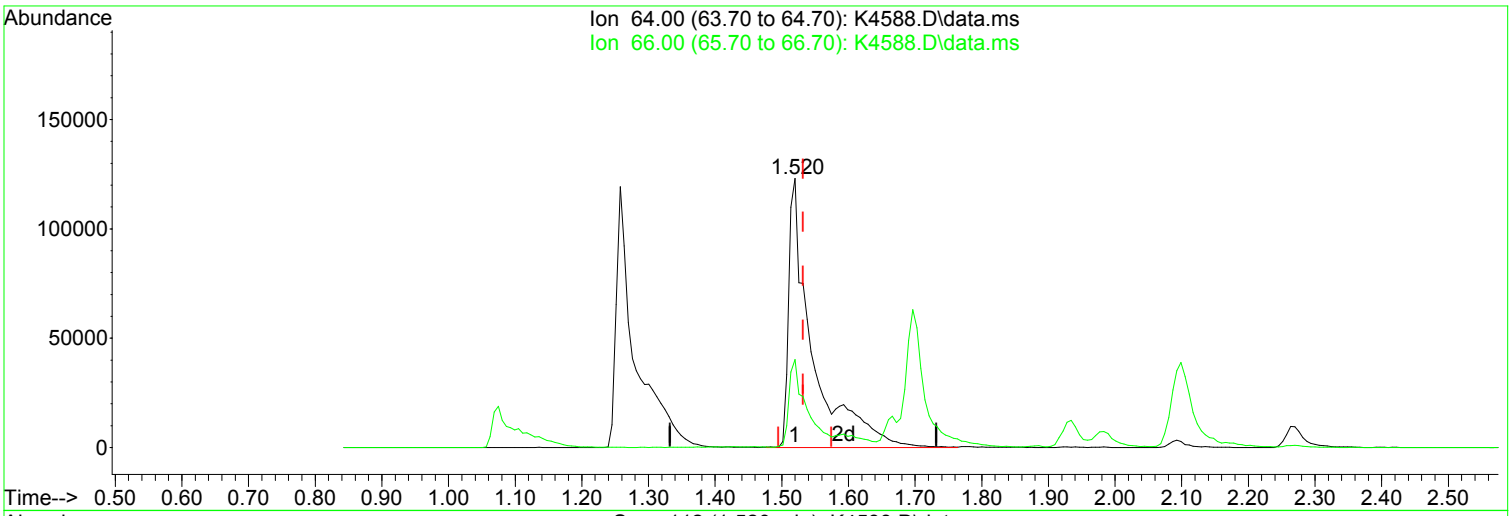
Before

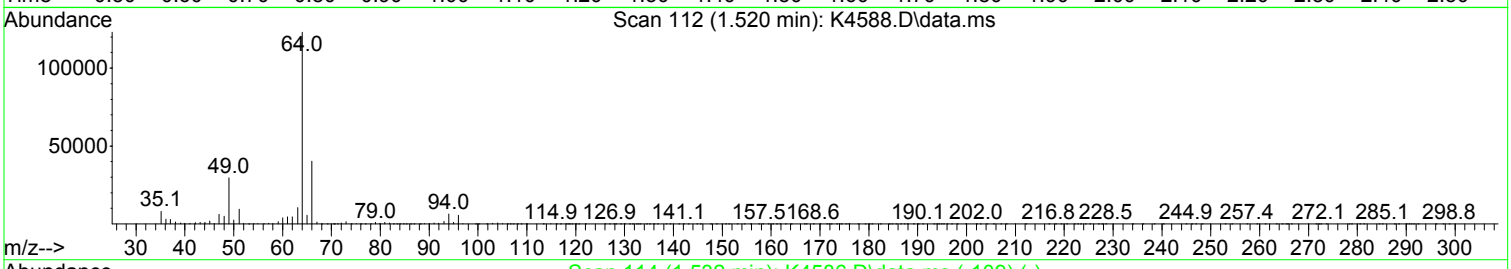
08/01/24

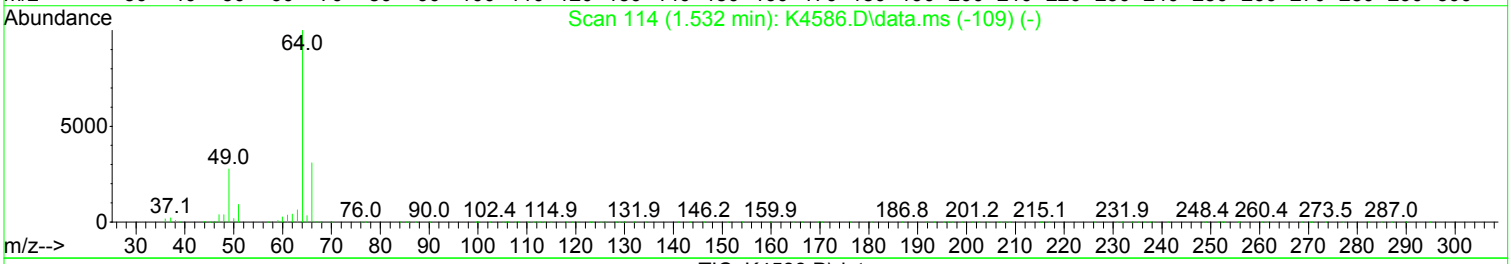
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4588.D
Acq On : 31 Jul 2024 06:27 pm
Operator : K.Ruest
Sample : 150ppb
Misc : 8260/624 ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 31 19:25:33 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4588.D\data.ms

(7) Chloroethane (P)

1.520min (-0.013) 99.53 ug/L m

response 304826

Ion	Exp%	Act%
64.00	100.00	100.00
66.00	33.50	32.66
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

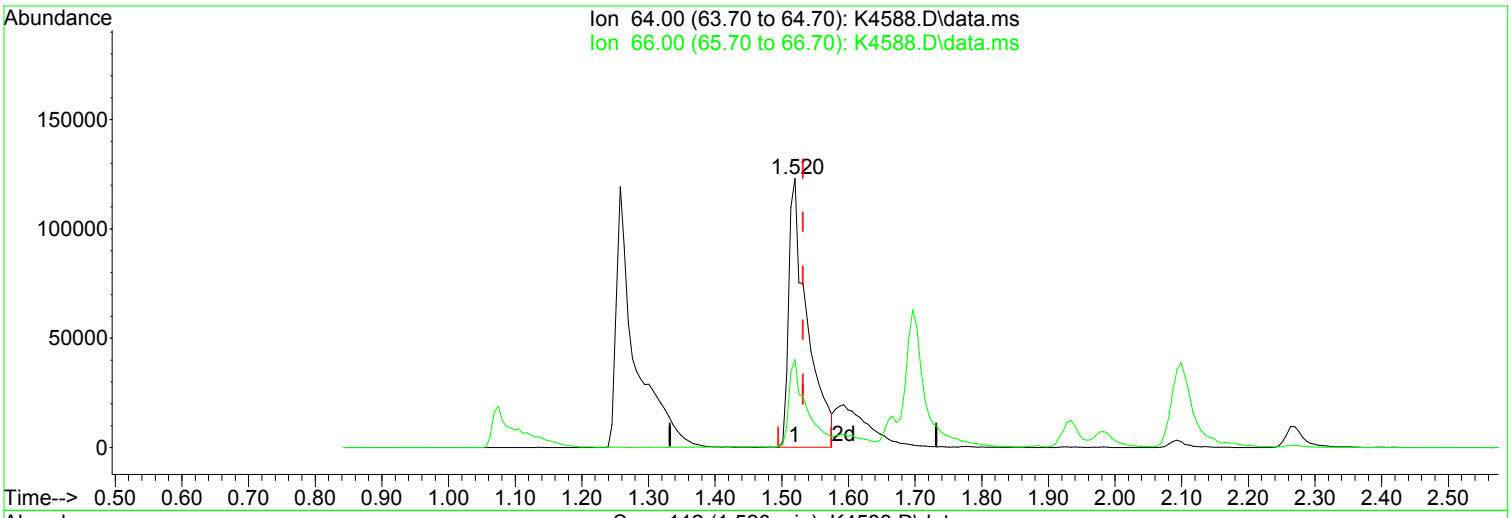
Poor integration.

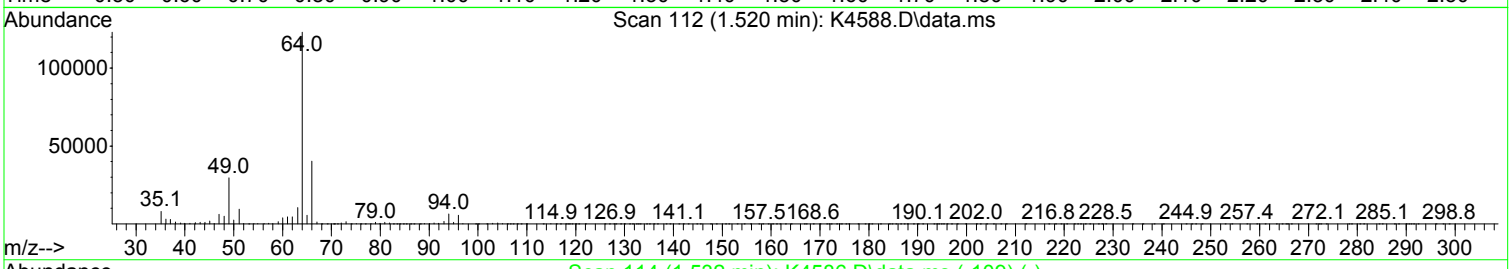
08/01/24

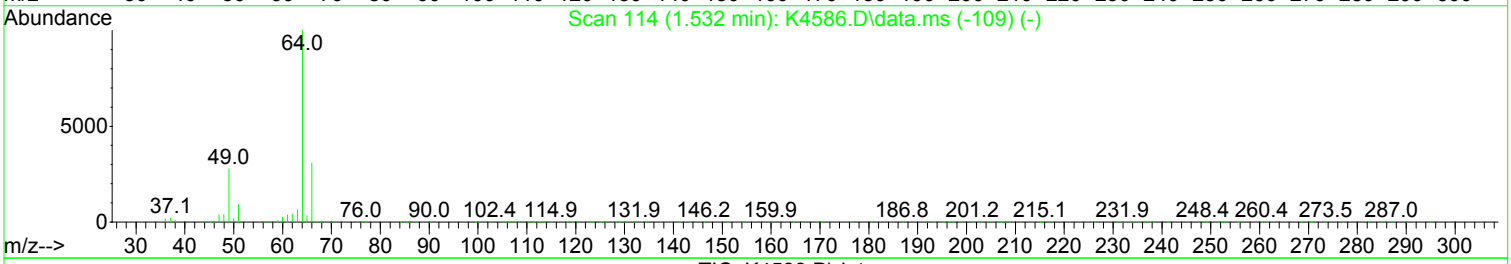
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4588.D
Acq On : 31 Jul 2024 06:27 pm
Operator : K.Ruest
Sample : 150ppb
Misc : 8260/624 ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 31 19:25:33 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4588.D\data.ms

(7) Chloroethane (P)

1.520min (-0.013) 76.58 ug/L

response 234539

Ion	Exp%	Act%
64.00	100.00	100.00
66.00	33.50	32.66
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

08/01/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4588.D
Acq On : 31 Jul 2024 06:27 pm
Operator : K.Ruest
Sample : 150ppb
Misc : 8260/624 ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 31 19:25:33 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.989	168	356931	50.00	ug/L		0.00
42) 1,4-Difluorobenzene	6.171	114	609972	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.573	117	572288	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.646	152	287490	50.00	ug/L		0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.830	113	760301	199.82	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 399.64%#				
47) surr1,1,2-dichloroetha...	5.415	65	1003635	192.98	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 385.96%#				
64) SURR3,Toluene-d8	8.049	98	2726360	195.26	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 390.52%#				
69) SURR2,BFB	10.664	95	1094148	199.30	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 398.60%#				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.081	51	758346	156.126	ug/L		90
3) Dichlorodifluoromethane	1.069	85	799649	191.806	ug/L		94
4) Chloromethane	1.209	50	752362	160.656	ug/L		99
5) Vinyl Chloride	1.258	62	781550	161.763	ug/L		96
6) Bromomethane	1.459	94	217207m	112.750	ug/L		
7) Chloroethane	1.520	64	304826m	99.528	ug/L		
8) Freon 21	1.666	67	965544	148.202	ug/L		99
9) Trichlorofluoromethane	1.696	101	817151	152.082	ug/L		98
10) Diethyl Ether	1.928	59	557122	144.054	ug/L		82
11) Freon 123a	1.934	67	541200	141.244	ug/L		92
12) Freon 123	1.983	83	706773	161.589	ug/L		98
13) Acrolein	2.026	56	504361	894.514	ug/L		100
14) 1,1-Diclethene	2.093	96	472532	156.185	ug/L	#	79
15) Freon 113	2.099	101	507136	163.011	ug/L		98
16) Acetone	2.154	43	400924	140.334	ug/L		92
17) 2-Propanol	2.306	45	1775878	3151.950	ug/L		95
18) Iodomethane	2.215	142	723611	153.379	ug/L		97
19) Carbon Disulfide	2.270	76	1289018	173.052	ug/L		100
20) Acetonitrile/Allyl Chl...	2.398	41	1332587	886.449	ug/L		80
21) Methyl Acetate	2.434	43	735492	147.534	ug/L		85
22) Methylene Chloride	2.513	84	496191	110.925	ug/L	#	70
23) TBA	2.672	59	3268483	3129.825	ug/L		94
24) Acrylonitrile	2.763	53	1930925	740.421	ug/L		99
25) Methyl-t-Butyl Ether	2.800	73	1652471	144.209	ug/L		87
26) trans-1,2-Dichloroethene	2.782	96	504039	151.873	ug/L	#	85
27) 1,1-Diclethane	3.239	63	1020097	149.049	ug/L		97
28) Vinyl Acetate	3.330	86	112676	168.456	ug/L	#	1
29) DIPE	3.361	45	1776563	147.031	ug/L		85
30) 2-Chloro-1,3-Butadiene	3.349	53	1074562	155.126	ug/L		82
31) ETBE	3.849	59	1893870	147.969	ug/L		91
32) 2,2-Dichloropropane	4.007	77	762384	177.083	ug/L		96
33) cis-1,2-Dichloroethene	4.013	96	562420	147.860	ug/L	#	76
34) 2-Butanone	4.074	43	506702	148.636	ug/L		83
35) Propionitrile	4.159	54	895058	768.528	ug/L		98
36) Bromochloromethane	4.379	130	371057	147.143	ug/L	#	72
37) Methacrylonitrile	4.403	67	330500	152.232	ug/L	#	49
38) Tetrahydrofuran	4.476	42	315675	145.182	ug/L		74
39) Chloroform	4.550	83	904687	142.201	ug/L		96
40) 1,1,1-Trichloroethane	4.824	97	874249	171.208	ug/L		96

1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4588.D
Acq On : 31 Jul 2024 06:27 pm
Operator : K.Ruest
Sample : 150ppb
Misc : 8260/624 ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 31 19:25:33 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) TAME	5.763	73	1473525	149.259	ug/L		88
43) Cyclohexane	4.903	41	549427	152.987	ug/L		89
45) Carbontetrachloride	5.123	117	772058	159.179	ug/L		98
46) 1,1-Dichloropropene	5.141	75	662028	147.796	ug/L		98
48) Benzene	5.495	78	1887043	145.448	ug/L		86
49) 1,2-Dichloroethane	5.549	62	887846	136.500	ug/L		94
50) Iso-Butyl Alcohol	5.580	43	1056112	3372.018	ug/L		100
51) n-Heptane	6.025	43	786356	160.926	ug/L	#	79
52) 1-Butanol	6.604	56	1937641	9439.471	ug/L		88
53) Trichloroethene	6.507	130	586953	151.734	ug/L		99
54) Methylcyclohexane	6.744	55	888188	162.723	ug/L	#	74
55) 1,2-Diclpropane	6.805	63	569439	144.186	ug/L		95
56) Dibromomethane	6.952	93	357791	144.465	ug/L		97
57) 1,4-Dioxane	7.043	88	253309	3032.881	ug/L		86
58) Methyl Methacrylate	7.061	69	499062	151.234	ug/L	#	68
59) Bromodichloromethane	7.196	83	709402	152.472	ug/L		99
60) 2-Nitropropane	7.500	41	555056	333.792	ug/L		91
61) 2-Chloroethylvinyl Ether	7.622	63	184016	144.260	ug/L		89
62) cis-1,3-Dichloropropene	7.756	75	829917	156.618	ug/L		99
63) 4-Methyl-2-pentanone	7.976	43	920577	148.800	ug/L		88
65) Toluene	8.122	91	2091117	141.191	ug/L		97
66) trans-1,3-Dichloropropene	8.409	75	807072	158.584	ug/L		99
67) Ethyl Methacrylate	8.561	69	878930	154.188	ug/L	#	63
68) 1,1,2-Trichloroethane	8.604	97	519497	145.557	ug/L		98
71) Tetrachloroethene	8.726	164	401912	142.420	ug/L		96
72) 2-Hexanone	8.915	43	728214	144.368	ug/L		88
73) 1,3-Dichloropropane	8.774	76	829023	134.271	ug/L	#	81
74) Dibromochloromethane	9.000	129	619450	155.406	ug/L		99
75) N-Butyl Acetate	9.073	43	1418383	146.644	ug/L		91
76) 1,2-Dibromoethane	9.098	107	576863	141.188	ug/L		100
77) 3-Chlorobenzotrifluoride	9.634	180	701611	150.882	ug/L		94
78) Chlorobenzene	9.604	112	1448357	135.062	ug/L		99
79) 4-Chlorobenzotrifluoride	9.689	180	627635	145.678	ug/L		96
80) 1,1,1,2-Tetrachloroethane	9.695	131	579777	150.052	ug/L		97
81) Ethylbenzene	9.726	106	776680	144.046	ug/L		96
82) (m+p)Xylene	9.841	106	1858683	280.030	ug/L		98
83) o-Xylene	10.201	106	936423	141.652	ug/L		95
84) Styrene	10.219	104	1650016	148.381	ug/L		97
85) Bromoform	10.366	173	400101	177.472	ug/L		99
86) 2-Chlorobenzotrifluoride	10.457	180	692270	146.928	ug/L		94
87) Isopropylbenzene	10.542	105	2446797	144.368	ug/L		99
88) Cyclohexanone	10.610	55	3626773	2896.566	ug/L		95
89) trans-1,4-Dichloro-2-B...	10.859	53	369268	154.398	ug/L		87
91) 1,1,2,2-Tetrachloroethane	10.811	83	791122	131.482	ug/L		98
92) Bromobenzene	10.786	156	607813	132.535	ug/L		100
93) 1,2,3-Trichloropropane	10.835	110	291512	133.608	ug/L	#	89
94) n-Propylbenzene	10.902	91	2776227	133.262	ug/L		99
95) 2-Chlorotoluene	10.957	91	1697490	129.565	ug/L		99
96) 3-Chlorotoluene	11.018	91	1783019	134.514	ug/L		98
97) 4-Chlorotoluene	11.055	91	1951245	129.482	ug/L		99
98) 1,3,5-Trimethylbenzene	11.055	105	2094831	132.770	ug/L		99
99) tert-Butylbenzene	11.329	119	1830723	135.952	ug/L		99
100) 1,2,4-Trimethylbenzene	11.365	105	2145580	134.137	ug/L		99
101) 3,4-Dichlorobenzotrifl...	11.433	214	475143	136.793	ug/L		98
102) sec-Butylbenzene	11.512	105	2544857	134.969	ug/L		99
103) p-Isopropyltoluene	11.634	119	2244753	135.375	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4588.D
Acq On : 31 Jul 2024 06:27 pm
Operator : K.Ruest
Sample : 150ppb
Misc : 8260/624 ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 31 19:25:33 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

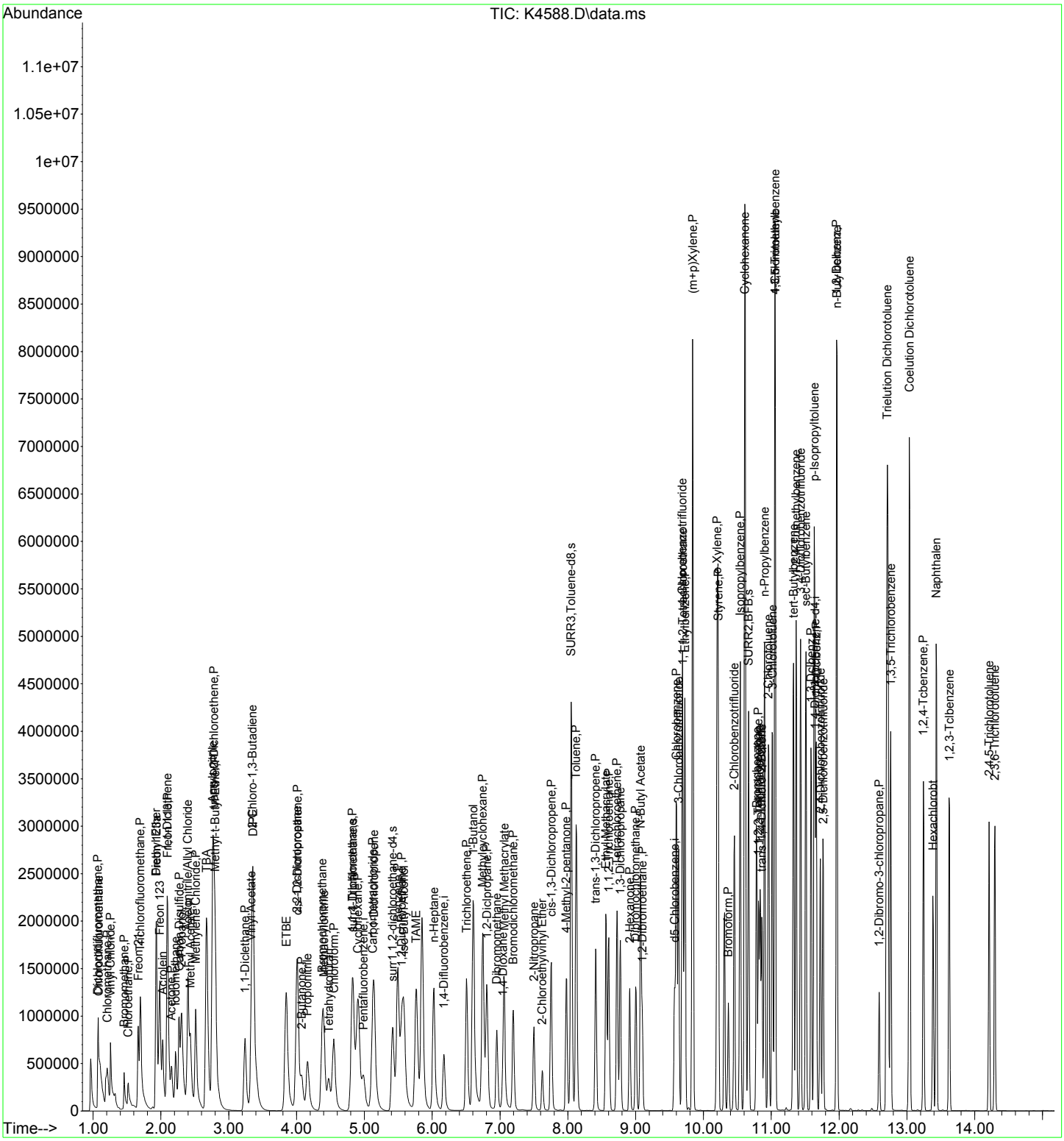
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.585	146	1182015	134.574	ug/L	98
105) 1,4-Dclbenz	11.664	146	1174482	132.434	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.725	214	423778	138.551	ug/L	96
107) 2,5-Dichlorobenzotrifl...	11.768	214	479064	140.512	ug/L	99
108) n-Butylbenzene	11.969	91	1967064	136.221	ug/L	97
109) 1,2-Dclbenz	11.963	146	1158229	133.560	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.591	157	245601	171.564	ug/L	97
111) Trielution Dichlorotol...	12.713	125	3311640	405.149	ug/L	97
112) 1,3,5-Trichlorobenzene	12.762	180	763281	134.703	ug/L	100
113) Coelution Dichlorotoluene	13.036	125	2389219	271.743	ug/L	97
114) 1,2,4-Tcbenzene	13.243	180	748808	136.290	ug/L	97
115) Hexachlorobt	13.383	225	267844	132.432	ug/L	98
116) Naphthalen	13.432	128	2905396	139.835	ug/L	99
117) 1,2,3-Tclbenzene	13.627	180	740060	136.681	ug/L	99
118) 2,4,5-Trichlorotoluene	14.213	159	591171	137.065	ug/L	99
119) 2,3,6-Trichlorotoluene	14.298	159	557914	139.813	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4588.D
Acq On : 31 Jul 2024 06:27 pm
Operator : K.Ruest
Sample : 150ppb
Misc : 8260/624 ICAL
ALS Vial : 8 Sample Multiplier: 1

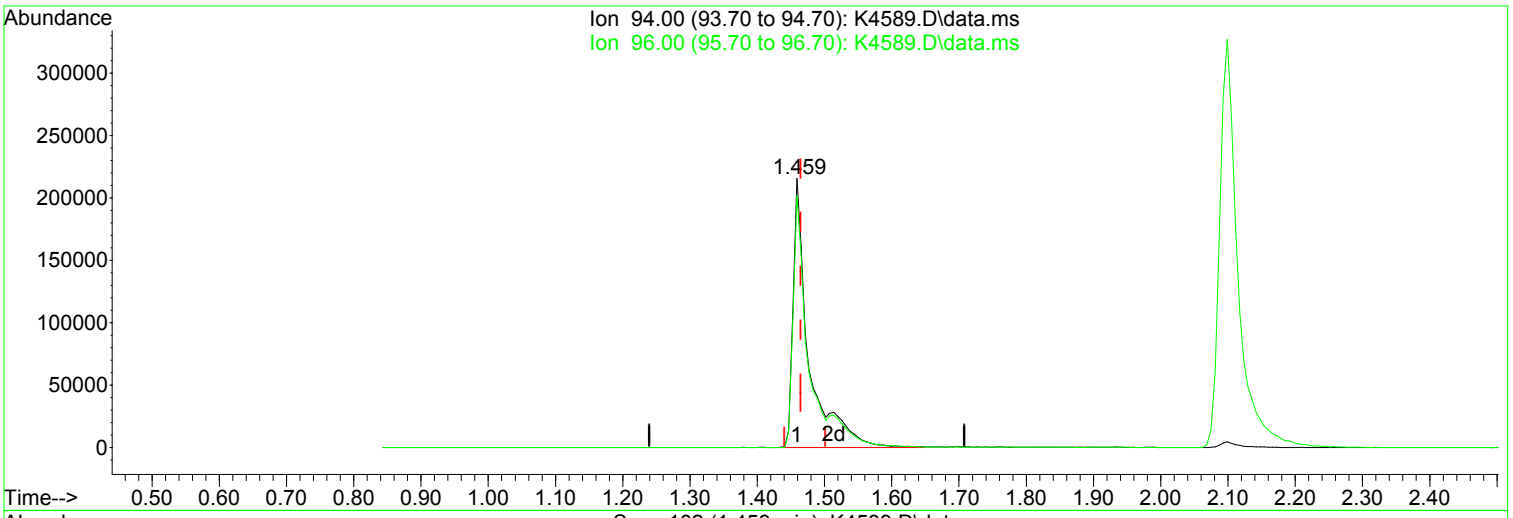
Quant Time: Jul 31 19:25:33 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

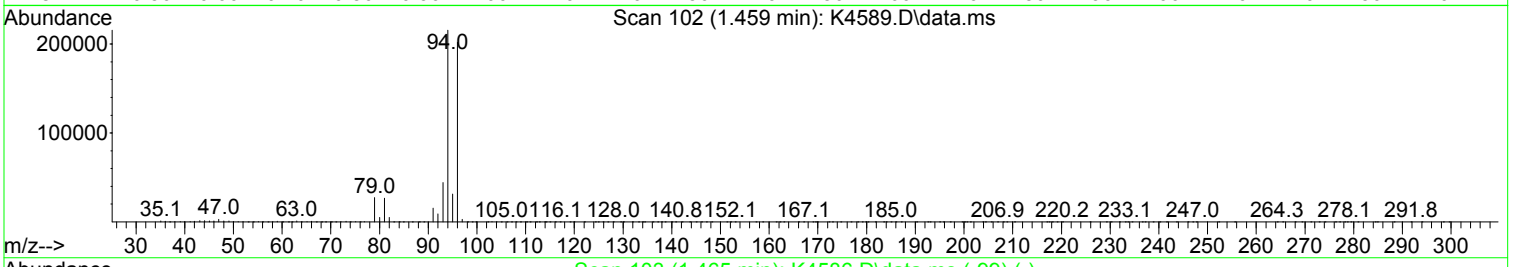


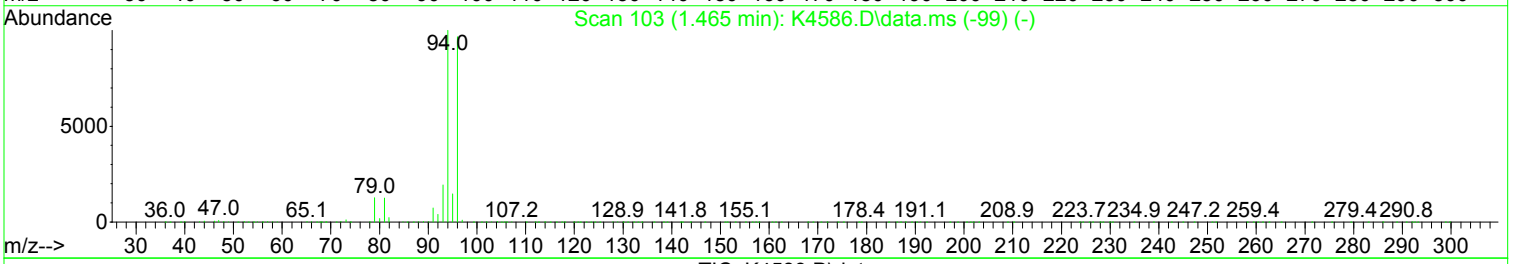
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4589.D
Acq On : 31 Jul 2024 06:51 pm
Operator : K.Ruest
Sample : 200ppb
Misc : 8260/624 ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 31 19:25:38 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4589.D\data.ms

(6) Bromomethane (P)

1.459min (-0.006) 181.86 ug/L m

response 357390

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	95.80	93.62
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

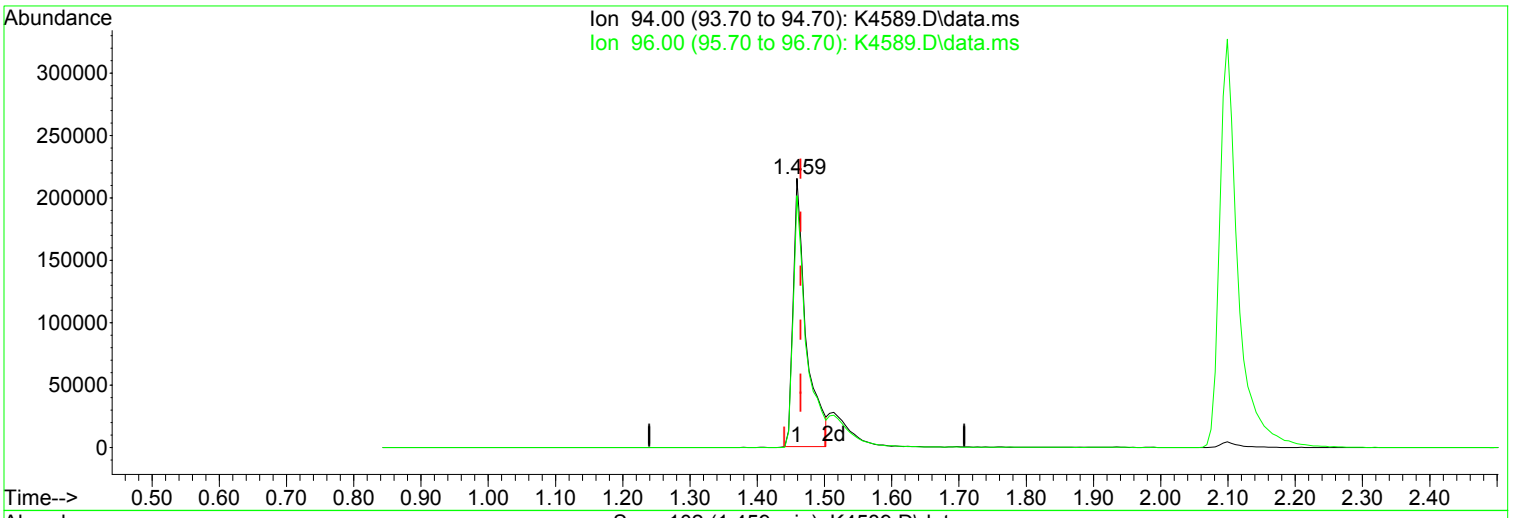
Split Peak.

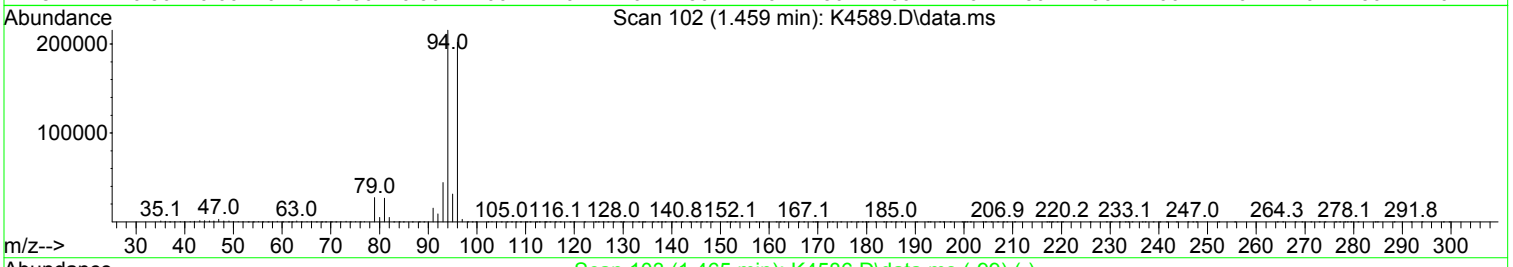
08/01/24

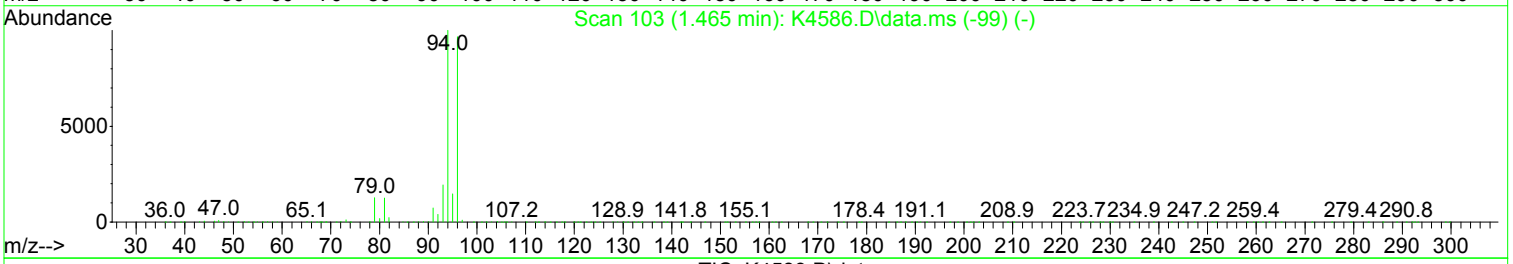
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4589.D
Acq On : 31 Jul 2024 06:51 pm
Operator : K.Ruest
Sample : 200ppb
Misc : 8260/624 ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 31 19:25:38 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4589.D\data.ms

(6) Bromomethane (P)

1.459min (-0.006) 146.81 ug/L

response 288504

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	95.80	93.62
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

08/01/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4589.D
Acq On : 31 Jul 2024 06:51 pm
Operator : K.Ruest
Sample : 200ppb
Misc : 8260/624 ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 31 19:25:38 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.995	168	364106	50.00	ug/L		0.00
42) 1,4-Difluorobenzene	6.172	114	610492	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.573	117	569706	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.646	152	269840	50.00	ug/L	#	0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.830	113	202838	53.26	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 106.52%				
47) surr1,1,2-dichloroetha...	5.416	65	266030	51.11	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.22%				
64) SURR3,Toluene-d8	8.049	98	755763	54.08	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 108.16%				
69) SURR2,BFB	10.665	95	303880	55.30	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 110.60%				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.081	51	955912	192.922	ug/L		90
3) Dichlorodifluoromethane	1.075	85	986016	231.848	ug/L		95
4) Chloromethane	1.209	50	1012095	211.859	ug/L		99
5) Vinyl Chloride	1.258	62	1020193	206.996	ug/L		97
6) Bromomethane	1.459	94	357390m	181.862	ug/L		
7) Chloroethane	1.526	64	636370	203.686	ug/L		95
8) Freon 21	1.672	67	1270446	191.158	ug/L		100
9) Trichlorofluoromethane	1.709	101	1070203	195.253	ug/L		98
10) Diethyl Ether	1.928	59	783620	198.626	ug/L		82
11) Freon 123a	1.934	67	674547	172.576	ug/L		90
12) Freon 123	1.983	83	886975	198.792	ug/L		98
13) Acrolein	2.026	56	711140	1236.396	ug/L		98
14) 1,1-Diclethene	2.099	96	620399	201.018	ug/L	#	83
15) Freon 113	2.105	101	629851	198.466	ug/L		98
16) Acetone	2.154	43	521675	179.002	ug/L		91
17) 2-Propanol	2.288	45	2369508	4122.692	ug/L		94
18) Iodomethane	2.221	142	1036850	215.443	ug/L		97
19) Carbon Disulfide	2.270	76	1717733	226.064	ug/L		99
20) Acetonitrile/Allyl Chl...	2.404	41	1903363	1241.184	ug/L		86
21) Methyl Acetate	2.434	43	969243	190.591	ug/L		86
22) Methylene Chloride	2.514	84	682123	149.486	ug/L	#	70
23) TBA	2.660	59	4354482	4087.585	ug/L		94
24) Acrylonitrile	2.764	53	2610761	981.379	ug/L		100
25) Methyl-t-Butyl Ether	2.800	73	2302329	196.962	ug/L		88
26) trans-1,2-Dichloroethene	2.782	96	677338	200.068	ug/L	#	83
27) 1,1-Diclethane	3.245	63	1402320	200.859	ug/L		98
28) Vinyl Acetate	3.331	86	178000	260.874	ug/L	#	1
29) DIPE	3.361	45	2416545	196.056	ug/L		88
30) 2-Chloro-1,3-Butadiene	3.355	53	1397699	197.799	ug/L		82
31) ETBE	3.849	59	2618170	200.527	ug/L		91
32) 2,2-Dichloropropane	4.007	77	1069534	243.531	ug/L		98
33) cis-1,2-Dichloroethene	4.013	96	784477	202.174	ug/L	#	76
34) 2-Butanone	4.074	43	687060	197.571	ug/L		84
35) Propionitrile	4.160	54	1198128	1008.483	ug/L		99
36) Bromochloromethane	4.379	130	518620	201.606	ug/L	#	69
37) Methacrylonitrile	4.404	67	455586	205.712	ug/L	#	50
38) Tetrahydrofuran	4.471	42	428424	193.154	ug/L	#	73
39) Chloroform	4.550	83	1242783	191.495	ug/L		96
40) 1,1,1-Trichloroethane	4.830	97	1168912	224.403	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4589.D
Acq On : 31 Jul 2024 06:51 pm
Operator : K.Ruest
Sample : 200ppb
Misc : 8260/624 ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 31 19:25:38 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) TAME	5.769	73	2058068	204.362 ug/L		89
43) Cyclohexane	4.910	41	678854	188.865 ug/L		89
45) Carbontetrachloride	5.129	117	1024426	211.031 ug/L		97
46) 1,1-Dichloropropene	5.147	75	882132	196.765 ug/L		98
48) Benzene	5.495	78	2606742	200.749 ug/L		87
49) 1,2-Dichloroethane	5.550	62	1233518	189.483 ug/L		95
50) Iso-Butyl Alcohol	5.574	43	1500653	4787.294 ug/L		97
51) n-Heptane	6.025	43	971395	198.624 ug/L	#	77
52) 1-Butanol	6.604	56	2769065	13478.371 ug/L		90
53) Trichloroethene	6.507	130	778827	201.165 ug/L		99
54) Methylcyclohexane	6.751	55	1082519	198.157 ug/L	#	76
55) 1,2-Diclpropane	6.806	63	793881	200.845 ug/L		96
56) Dibromomethane	6.952	93	502705	202.804 ug/L		97
57) 1,4-Dioxane	7.037	88	334270	3998.822 ug/L		83
58) Methyl Methacrylate	7.062	69	692693	209.732 ug/L	#	70
59) Bromodichloromethane	7.196	83	1007811	216.424 ug/L		99
60) 2-Nitropropane	7.501	41	773856	464.975 ug/L		91
61) 2-Chloroethylvinyl Ether	7.622	63	255347	200.009 ug/L		94
62) cis-1,3-Dichloropropene	7.757	75	1189482	224.281 ug/L		99
63) 4-Methyl-2-pentanone	7.976	43	1279669	206.667 ug/L		88
65) Toluene	8.122	91	2894660	195.280 ug/L		96
66) trans-1,3-Dichloropropene	8.415	75	1153997	226.559 ug/L		99
67) Ethyl Methacrylate	8.567	69	1233626	216.226 ug/L	#	69
68) 1,1,2-Trichloroethane	8.604	97	726913	203.499 ug/L		99
71) Tetrachloroethene	8.726	164	554968	197.548 ug/L		97
72) 2-Hexanone	8.915	43	1001380	199.423 ug/L		89
73) 1,3-Dichloropropane	8.775	76	1175023	191.173 ug/L	#	81
74) Dibromochloromethane	9.006	129	878395	221.368 ug/L		98
75) N-Butyl Acetate	9.073	43	1905656	197.916 ug/L		91
76) 1,2-Dibromoethane	9.098	107	819141	201.394 ug/L		98
77) 3-Chlorobenzotrifluoride	9.634	180	942649	203.636 ug/L		93
78) Chlorobenzene	9.604	112	2013033	188.569 ug/L		98
79) 4-Chlorobenzotrifluoride	9.689	180	848095	197.740 ug/L		96
80) 1,1,1,2-Tetrachloroethane	9.695	131	815186	211.934 ug/L		99
81) Ethylbenzene	9.726	106	1060395	197.557 ug/L		98
82) (m+p)Xylene	9.842	106	2585547	391.306 ug/L		94
83) o-Xylene	10.201	106	1307633	198.702 ug/L		97
84) Styrene	10.220	104	2296989	207.498 ug/L		99
85) Bromoform	10.366	173	571703	254.739 ug/L		99
86) 2-Chlorobenzotrifluoride	10.457	180	939172	200.234 ug/L		94
87) Isopropylbenzene	10.543	105	3350733	198.599 ug/L		98
88) Cyclohexanone	10.616	55	4801290	3851.988 ug/L		96
89) trans-1,4-Dichloro-2-B...	10.866	53	520470	218.605 ug/L		91
91) 1,1,2,2-Tetrachloroethane	10.817	83	1134858	200.947 ug/L		98
92) Bromobenzene	10.787	156	855481	198.741 ug/L		99
93) 1,2,3-Trichloropropane	10.841	110	395994	193.366 ug/L		91
94) n-Propylbenzene	10.902	91	3784609	193.549 ug/L		97
95) 2-Chlorotoluene	10.963	91	2357099	191.679 ug/L		99
96) 3-Chlorotoluene	11.018	91	2404458	193.262 ug/L		99
97) 4-Chlorotoluene	11.055	91	2720487	192.336 ug/L		99
98) 1,3,5-Trimethylbenzene	11.055	105	2873043	194.003 ug/L		99
99) tert-Butylbenzene	11.329	119	2447265	193.625 ug/L		97
100) 1,2,4-Trimethylbenzene	11.366	105	2923730	194.741 ug/L		99
101) 3,4-Dichlorobenzotrifl...	11.439	214	643347	197.333 ug/L		100
102) sec-Butylbenzene	11.512	105	3416004	193.022 ug/L		100
103) p-Isopropyltoluene	11.634	119	3065689	196.977 ug/L		98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4589.D
Acq On : 31 Jul 2024 06:51 pm
Operator : K.Ruest
Sample : 200ppb
Misc : 8260/624 ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 31 19:25:38 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.591	146	1632263	197.991	ug/L	99
105) 1,4-Dclbenz	11.664	146	1648047	197.988	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.725	214	580439	202.183	ug/L	97
107) 2,5-Dichlorobenzotrifl...	11.768	214	644258	201.324	ug/L	97
108) n-Butylbenzene	11.969	91	2680398	197.761	ug/L	98
109) 1,2-Dclbenz	11.963	146	1605097	197.196	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.591	157	337473	251.161	ug/L	96
111) Trielution Dichlorotol...	12.713	125	4460230	581.361	ug/L	98
112) 1,3,5-Trichlorobenzene	12.762	180	1043974	196.290	ug/L	98
113) Coelution Dichlorotoluene	13.042	125	3231583	391.592	ug/L	98
114) 1,2,4-Tcbenzene	13.250	180	1057627	205.089	ug/L	98
115) Hexachlorobt	13.384	225	382295	201.384	ug/L	97
116) Naphthalen	13.439	128	3892927	199.619	ug/L	99
117) 1,2,3-Tclbenzene	13.628	180	1028222	202.323	ug/L	99
118) 2,4,5-Trichlorotoluene	14.213	159	836641	206.665	ug/L	97
119) 2,3,6-Trichlorotoluene	14.298	159	784097	209.347	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4589.D
Acq On : 31 Jul 2024 06:51 pm
Operator : K.Ruest
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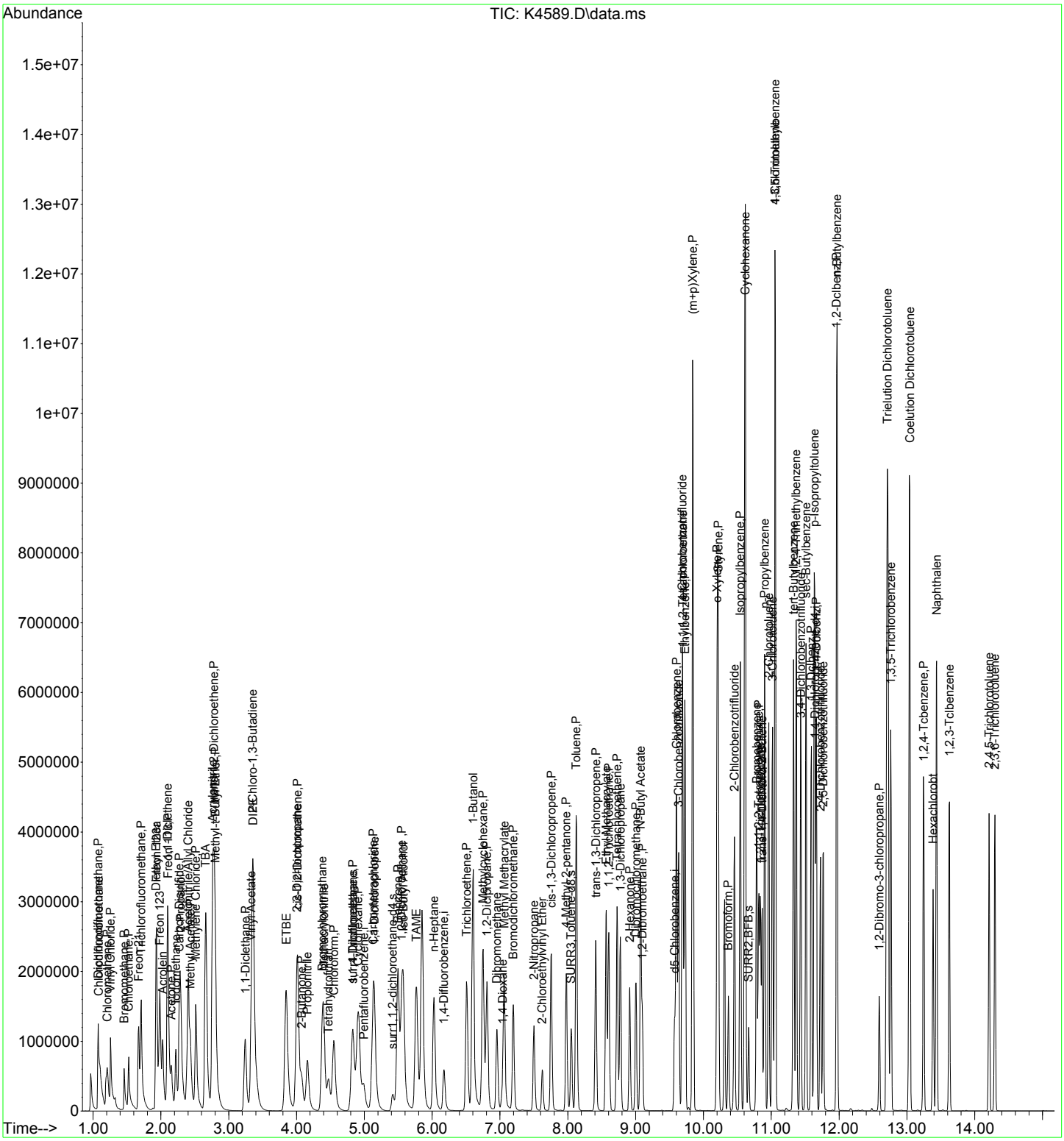

Analysis: 8260+624 | Analyst: KWest | pH strips: N/A | Tune Method: W073124
Date: 7/31/24 | Balance ID: N/A | ResCl strips: ↓ | Run Method: ↓
Instr. 17 | 50 mL Class A used for dilution FV | Syringes: 231174 + 200106 | LIMS Run#: ICAL

Data Path: j:\acqudata\msvoa(InstID)\(Date)

Pos.	Sample	Diln.	Diln. Prep./	RL	Vial	HS	CI	pH	File#	OK?	Comments
1	CCV - headspace								K45572		filament #1 + new trap
2	LCS - headspace								K45573		
3	BLK								K45574		
4	LCS - headspace								K45575		TEMV
5	BLK								K45576		
6	↓								K45577		
7	↓								K45578		
1	TUNE								K45579	YT	(cont'd) 14:43
2	1 BLK	(5ppm)	(500ppm) Aliquot SMSD FV						K45580	YR	
1	0.5 ppb	5mL	— — 50mL						K45581	Y	
2	1.0	10mL	— —						K45582	Y	
3	2.0	20mL	— —						K45583	Y	
4	5.0	50mL	— 1mL						K45584	Y	
5	20	—	2mL 2mL						K45585	Y	
6	50	—	5mL 5mL						K45586	Y	
7	100	—	10mL 10mL						K45587	Y	
8	150	—	15mL 15mL						K45588	Y	
9	200	—	20mL —						K45589	Y	
10	— BLK —	—							K45590	—	
11	↓	—							K45591	—	
12	↓	—							K45592	—	
13	ICV.50								K45593	YQ	
14	— BLK —	—							K45594	—	

LOD
KR 7/31/24

All samples = 5 mL + 5 uL combined IS/ 5 mL purged

Primary OCC : 235592
Primary Fr : 236424
Primary TG : 236535 ~~50uL → 50mL~~ (100)
Primary HSL : 236312 10mL → 1.0mL MeOH
Primary 826 : 236513 = 5ppm
JT

Secondary Fr : 236425 − 10.5mL
Secondary OCC : 236103
Secondary TG : 236192 5mL
Secondary HSL : 236406
Secondary 826 : 236514
JT
90mL = ICV.50

Combined IS/Surr :
Surrogate 50 : 236433
Internal Std 50 : 236434
Reagents: MeOH : 236272

ALS Group USA, Corp.

DBA ALS Environmetal

QC/QC Report

Date Analyzed: 7/31/24 15:07

ICAL Tune Summary

Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA17\Data\073124\K4580.D Analytical Method: 8260C/624.1

Instrument ID: R-MS-17

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Results Pass/Fail
50	95	15	40	23.5	42427	PASS
75	95	30	60	49.8	89888	PASS
95	95	100	100	100.0	180352	PASS
96	95	5	9	6.6	11833	PASS
173	174	0	2	1.0	1345	PASS
174	95	50	120	72.4	130624	PASS
175	174	5	9	7.6	9934	PASS
176	174	95	101	96.4	125981	PASS
177	176	5	9	6.6	8308	PASS

Sample Name	Lab Code	File ID:	Date Analyzes:	Q
0.5ppb	0.5ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4581.D	7/31/24 15:35	
1.0ppb	1.0ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4582.D	7/31/24 15:58	
2.0ppb	2.0ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4583.D	7/31/24 16:22	
5.0ppb	5.0ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4584.D	7/31/24 16:46	
20ppb	20ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4585.D	7/31/24 17:12	
50ppb	50ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4586.D	7/31/24 17:37	
100ppb	100ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4587.D	7/31/24 18:02	
150ppb	150ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4588.D	7/31/24 18:27	
200ppb	200ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4589.D	7/31/24 18:51	
ICV-50	ICV-50	I:\ACQUDATA\MSVOA17\Data\073124\K4593.D	7/31/24 20:29	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408139
Project: Olean OU3 12-Month Sampling **Calibration Date:** 7/31/2024

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2400147 **Signal ID:** 1
Instrument ID: R-MS-17

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC2400147-01	0.5ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4581.D	07/31/2024 15:35
02	RC2400147-02	1.0ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4582.D	07/31/2024 15:58
03	RC2400147-03	2.0ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4583.D	07/31/2024 16:22
04	RC2400147-04	5.0ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4584.D	07/31/2024 16:46
05	RC2400147-05	20ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4585.D	07/31/2024 17:12
06	RC2400147-06	50ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4586.D	07/31/2024 17:37
07	RC2400147-07	100ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4587.D	07/31/2024 18:02
08	RC2400147-08	150ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4588.D	07/31/2024 18:27
09	RC2400147-09	200ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4589.D	07/31/2024 18:51

Analyte

4-Bromofluorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.4777	05	20.000	0.4092	06	50.000	0.4609	07	100.000	0.4539
08	200.000	0.4484									

Dibromofluoromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.3228	05	20.000	0.2798	06	50.000	0.3185	07	100.000	0.3267
08	200.000	0.3116									

Tetrachloroethene (PCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2625	02	1.000	0.2681	03	2.000	0.2715	04	5.000	0.2611
05	20.000	0.2102	06	50.000	0.2331	07	100.000	0.2349	08	150.000	0.2341
09	200.000	0.2435									

Toluene-d8

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	1.236	05	20.000	1.047	06	50.000	1.163	07	100.000	1.16
08	200.000	1.117									

Trichloroethene (TCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3234	02	1.000	0.3333	03	2.000	0.3174	04	5.000	0.3354
05	20.000	0.2767	06	50.000	0.3095	07	100.000	0.3183	08	150.000	0.3208
09	200.000	0.3189									

Vinyl Chloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7533	02	1.000	0.7322	03	2.000	0.6594	04	5.000	0.7013
05	20.000	0.6119	06	50.000	0.6721	07	100.000	0.7062	08	150.000	0.7299
09	200.000	0.7005									

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408139
Project: Olean OU3 12-Month Sampling **Calibration Date:** 7/31/2024

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2400147 **Signal ID:** 1
Instrument ID: R-MS-17

Analyte

cis-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5448	02	1.000	0.5735	03	2.000	0.5774	04	5.000	0.574
05	20.000	0.4717	06	50.000	0.5222	07	100.000	0.5403	08	150.000	0.5252
09	200.000	0.5386									

trans-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4478	02	1.000	0.5142	03	2.000	0.4763	04	5.000	0.4749
05	20.000	0.4107	06	50.000	0.4522	07	100.000	0.4724	08	150.000	0.4707
09	200.000	0.4651									

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408139
Project: Olean OU3 12-Month Sampling **Calibration Date:** 7/31/2024

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2400147 **Signal ID:** 1
Instrument ID: R-MS-17

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
4-Bromofluorobenzene	SURR	Average RF	% RSD	5.6	≤20	0.45	
Dibromofluoromethane	SURR	Average RF	% RSD	6.0	≤20	0.3119	
Tetrachloroethene (PCE)	TRG	Average RF	% RSD	8.3	≤20	0.2466	0.200
Toluene-d8	SURR	Average RF	% RSD	6.1	≤20	1.145	
Trichloroethene (TCE)	TRG	Average RF	% RSD	5.4	≤20	0.3171	0.200
Vinyl Chloride	TRG	Average RF	% RSD	6.2	≤20	0.6963	0.100
cis-1,2-Dichloroethene	TRG	Average RF	% RSD	6.2	≤20	0.5409	0.100
trans-1,2-Dichloroethene	TRG	Average RF	% RSD	6.0	≤20	0.4649	0.100

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408139
Project: Olean OU3 12-Month Sampling **Calibration Date:** 7/31/2024

Initial Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2400147 **Signal ID:** 1
Instrument ID: R-MS-17

#	Lab Code	Sample Name	File Location	Acquisition Date
10	RC2400147-10	ICV-50	I:\ACQUDATA\MSVOA17\Data\073124\K4593.D	07/31/2024 20:29

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Tetrachloroethene (PCE)	50.0	50.8	2.466E-1	2.503E-1	1.51	±30	Average RF
Trichloroethene (TCE)	50.0	50.8	3.171E-1	3.22E-1	1.53	±30	Average RF
Vinyl Chloride	50.0	49.1	6.963E-1	6.837E-1	-1.811	±30	Average RF
cis-1,2-Dichloroethene	50.0	50.7	5.409E-1	5.484E-1	1.39	±30	Average RF
trans-1,2-Dichloroethene	50.0	50.7	4.649E-1	4.718E-1	1.48	±30	Average RF

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	50.5	4.5E-1	4.549E-1	1.09	±30	Average RF
Dibromofluoromethane	50.0	51.7	3.119E-1	3.225E-1	3.42	±30	Average RF
Toluene-d8	50.0	51.1	1.145E0	1.171E0	2.27	±30	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	08/30/24 07:42

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method:	8260D	**Calibration Date:**	7/31/2024
File ID:	I:\ACQUDATA\MSVOA17\Data\083024\K5387.D\	**Calibration ID:**	RC2400147
Signal ID:	1	**Analysis Lot:**	852468
		Units:	ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Tetrachloroethene (PCE)	50.0	52.1	0.2466	0.2571	4.3	NA	±20	Average RF
Trichloroethene (TCE)	50.0	50.8	0.3171	0.3223	1.6	NA	±20	Average RF
Vinyl Chloride	50.0	44.2	0.6963	0.6152	-11.6	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	48.8	0.5409	0.5279	-2.4	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	51.0	0.4649	0.4745	2.1	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	50.5	0.45	0.4547	1.0	NA	±20	Average RF
Dibromofluoromethane	50.0	52.3	0.3119	0.3263	4.6	NA	±20	Average RF
Toluene-d8	50.0	50.8	1.1446	1.1632	1.6	NA	±20	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	08/31/24 11:00

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method:	8260D	**Calibration Date:**	7/31/2024
File ID:	I:\ACQUDATA\MSVOA17\Data\083124\K5421.D\	**Calibration ID:**	RC2400147
Signal ID:	1	**Analysis Lot:**	852643
		Units:	ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Tetrachloroethene (PCE)	50.0	55.0	0.2466	0.2713	10.0	NA	±20	Average RF
Trichloroethene (TCE)	50.0	52.6	0.3171	0.3335	5.2	NA	±20	Average RF
Vinyl Chloride	50.0	46.6	0.6963	0.6486	-6.9	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	51.9	0.5409	0.5609	3.7	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	54.3	0.4649	0.5046	8.5	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	51.0	0.45	0.4594	2.1	NA	±20	Average RF
Dibromofluoromethane	50.0	52.2	0.3119	0.3258	4.5	NA	±20	Average RF
Toluene-d8	50.0	51.7	1.1446	1.1834	3.4	NA	±20	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	09/01/24 12:31

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method:	8260D	**Calibration Date:**	7/31/2024
File ID:	I:\ACQUDATA\MSVOA17\Data\090124\K5452.D\	**Calibration ID:**	RC2400147
Signal ID:	1	**Analysis Lot:**	852662
		Units:	ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Tetrachloroethene (PCE)	50.0	48.8	0.2466	0.2405	-2.5	NA	±20	Average RF
Trichloroethene (TCE)	50.0	48.3	0.3171	0.3063	-3.4	NA	±20	Average RF
Vinyl Chloride	50.0	42.1	0.6963	0.5866	-15.8	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	48.0	0.5409	0.5188	-4.1	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	49.0	0.4649	0.4559	-1.9	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	50.1	0.45	0.4505	0.1	NA	±20	Average RF
Dibromofluoromethane	50.0	50.6	0.3119	0.3158	1.3	NA	±20	Average RF
Toluene-d8	50.0	50.7	1.1446	1.1614	1.5	NA	±20	Average RF

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408139
Project: Olean OU3 12-Month Sampling/300-082

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: 8260D **Analysis Lot:**852468
Instrument ID:R-MS-17

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\MSVOA17\Data\083024\K5387.D\	Continuing Calibration Verification	RQ2410802-01	8/30/2024	07:42:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5388.D\	ZZZZZZZ	ZZZZZZZ	8/30/2024	08:18:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5389.D\	Lab Control Sample	RQ2410802-03	8/30/2024	08:41:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5391.D\	ZZZZZZZ	ZZZZZZZ	8/30/2024	09:37:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5392.D\	Method Blank	RQ2410802-05	8/30/2024	10:00:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5393.D\	ZZZZZZZ	ZZZZZZZ	8/30/2024	10:26:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5394.D\	ZZZZZZZ	ZZZZZZZ	8/30/2024	10:49:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5395.D\	ZZZZZZZ	ZZZZZZZ	8/30/2024	11:12:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5396.D\	OLN-RU011-F009	R2408139-001	8/30/2024	11:35:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5397.D\	OLN-RU009-F009	R2408139-002	8/30/2024	11:59:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5398.D\	OLN-RU-016-F009	R2408139-003	8/30/2024	12:22:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5399.D\	ZZZZZZZ	ZZZZZZZ	8/30/2024	12:45:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5400.D\	ZZZZZZZ	ZZZZZZZ	8/30/2024	13:09:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5401.D\	ZZZZZZZ	ZZZZZZZ	8/30/2024	13:32:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5402.D\	ZZZZZZZ	ZZZZZZZ	8/30/2024	13:56:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5403.D\	ZZZZZZZ	ZZZZZZZ	8/30/2024	14:19:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5404.D\	ZZZZZZZ	ZZZZZZZ	8/30/2024	14:43:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5405.D\	ZZZZZZZ	ZZZZZZZ	8/30/2024	15:07:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5406.D\	ZZZZZZZ	ZZZZZZZ	8/30/2024	15:30:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5407.D\	ZZZZZZZ	ZZZZZZZ	8/30/2024	15:54:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5408.D\	ZZZZZZZ	ZZZZZZZ	8/30/2024	16:18:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5409.D\	ZZZZZZZ	ZZZZZZZ	8/30/2024	16:42:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5410.D\	ZZZZZZZ	ZZZZZZZ	8/30/2024	17:06:00	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408139
Project: Olean OU3 12-Month Sampling/300-082

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: 8260D **Analysis Lot:**852468
Instrument ID:R-MS-17

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\MSVOA17\Data\083024\K5411.D\	ZZZZZZZ	ZZZZZZZ	8/30/2024	17:30:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5413.D\	OLN-RU011-F009 MS	RQ2410802-06	8/30/2024	18:18:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5414.D\	OLN-RU011-F009 DMS	RQ2410802-07	8/30/2024	18:42:00	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408139
Project: Olean OU3 12-Month Sampling/300-082

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: 8260D **Analysis Lot:**852643
Instrument ID:R-MS-17

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\MSVOA17\Data\083124\K5421.D\	Continuing Calibration Verification	RQ2410851-01	8/31/2024	11:00:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5422.D\	Lab Control Sample	RQ2410851-02	8/31/2024	11:32:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5425.D\	Method Blank	RQ2410851-03	8/31/2024	12:52:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5426.D\	OLN-TB002-T009	R2408139-011	8/31/2024	13:16:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5427.D\	OLN-FB003-B009	R2408139-013	8/31/2024	13:39:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5428.D\	ZZZZZZZ	ZZZZZZZ	8/31/2024	14:02:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5429.D\	OLN-RU015-F009	R2408139-005	8/31/2024	14:25:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5430.D\	OLN-RU27A-F009	R2408139-010	8/31/2024	14:48:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5431.D\	OLN-FD001-D009	R2408139-004	8/31/2024	15:12:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5432.D\	OLN-RU010-F009	R2408139-007	8/31/2024	15:35:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5433.D\	OLN-RU008-F009	R2408139-008	8/31/2024	15:59:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5434.D\	OLN-RU019-F009	R2408139-012	8/31/2024	16:22:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5435.D\	ZZZZZZZ	ZZZZZZZ	8/31/2024	16:46:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5436.D\	ZZZZZZZ	ZZZZZZZ	8/31/2024	17:10:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5437.D\	ZZZZZZZ	ZZZZZZZ	8/31/2024	17:34:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5438.D\	ZZZZZZZ	ZZZZZZZ	8/31/2024	17:57:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5439.D\	ZZZZZZZ	ZZZZZZZ	8/31/2024	18:21:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5440.D\	ZZZZZZZ	ZZZZZZZ	8/31/2024	18:45:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5441.D\	ZZZZZZZ	ZZZZZZZ	8/31/2024	19:08:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5442.D\	ZZZZZZZ	ZZZZZZZ	8/31/2024	19:32:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5443.D\	ZZZZZZZ	ZZZZZZZ	8/31/2024	19:55:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5444.D\	ZZZZZZZ	ZZZZZZZ	8/31/2024	20:18:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5445.D\	ZZZZZZZ	ZZZZZZZ	8/31/2024	20:41:00	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408139
Project: Olean OU3 12-Month Sampling/300-082

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: 8260D **Analysis Lot:**852643
Instrument ID:R-MS-17

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\MSVOA17\Data\083124\K5446.D\	OLN-RU008-F009 MS	RQ2410851-04	8/31/2024	21:05:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5447.D\	OLN-RU008-F009 DMS	RQ2410851-05	8/31/2024	21:28:00	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408139
Project: Olean OU3 12-Month Sampling/300-082

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: 8260D **Analysis Lot:**852662
Instrument ID:R-MS-17

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\MSVOA17\Data\090124\K5452.D\	Continuing Calibration Verification	RQ2410853-01	9/1/2024	12:31:00	
I:\ACQUDATA\MSVOA17\Data\090124\K5453.D\	Lab Control Sample	RQ2410853-02	9/1/2024	13:06:00	
I:\ACQUDATA\MSVOA17\Data\090124\K5456.D\	Method Blank	RQ2410853-03	9/1/2024	14:26:00	
I:\ACQUDATA\MSVOA17\Data\090124\K5457.D\	OLN-RU019-F009	R2408139-012	9/1/2024	14:51:00	
I:\ACQUDATA\MSVOA17\Data\090124\K5458.D\	ZZZZZZZ	ZZZZZZZ	9/1/2024	15:14:00	
I:\ACQUDATA\MSVOA17\Data\090124\K5459.D\	ZZZZZZZ	ZZZZZZZ	9/1/2024	15:38:00	
I:\ACQUDATA\MSVOA17\Data\090124\K5461.D\	ZZZZZZZ	ZZZZZZZ	9/1/2024	16:24:00	
I:\ACQUDATA\MSVOA17\Data\090124\K5462.D\	ZZZZZZZ	ZZZZZZZ	9/1/2024	16:47:00	
I:\ACQUDATA\MSVOA17\Data\090124\K5463.D\	ZZZZZZZ	ZZZZZZZ	9/1/2024	17:10:00	
I:\ACQUDATA\MSVOA17\Data\090124\K5464.D\	ZZZZZZZ	ZZZZZZZ	9/1/2024	17:33:00	
I:\ACQUDATA\MSVOA17\Data\090124\K5465.D\	ZZZZZZZ	ZZZZZZZ	9/1/2024	17:56:00	
I:\ACQUDATA\MSVOA17\Data\090124\K5466.D\	ZZZZZZZ	ZZZZZZZ	9/1/2024	18:19:00	
I:\ACQUDATA\MSVOA17\Data\090124\K5467.D\	ZZZZZZZ	ZZZZZZZ	9/1/2024	18:42:00	
I:\ACQUDATA\MSVOA17\Data\090124\K5468.D\	ZZZZZZZ	ZZZZZZZ	9/1/2024	19:05:00	
I:\ACQUDATA\MSVOA17\Data\090124\K5469.D\	ZZZZZZZ	ZZZZZZZ	9/1/2024	19:28:00	
I:\ACQUDATA\MSVOA17\Data\090124\K5470.D\	ZZZZZZZ	ZZZZZZZ	9/1/2024	19:51:00	
I:\ACQUDATA\MSVOA17\Data\090124\K5471.D\	ZZZZZZZ	ZZZZZZZ	9/1/2024	20:14:00	
I:\ACQUDATA\MSVOA17\Data\090124\K5472.D\	ZZZZZZZ	ZZZZZZZ	9/1/2024	20:37:00	
I:\ACQUDATA\MSVOA17\Data\090124\K5473.D\	ZZZZZZZ	ZZZZZZZ	9/1/2024	21:00:00	
I:\ACQUDATA\MSVOA17\Data\090124\K5474.D\	ZZZZZZZ	ZZZZZZZ	9/1/2024	21:23:00	
I:\ACQUDATA\MSVOA17\Data\090124\K5475.D\	ZZZZZZZ	ZZZZZZZ	9/1/2024	21:46:00	
I:\ACQUDATA\MSVOA17\Data\090124\K5476.D\	ZZZZZZZ	ZZZZZZZ	9/1/2024	22:09:00	
I:\ACQUDATA\MSVOA17\Data\090124\K5477.D\	ZZZZZZZ	ZZZZZZZ	9/1/2024	22:32:00	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408139
Project: Olean OU3 12-Month Sampling/300-082

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: 8260D **Analysis Lot:**852662
Instrument ID:R-MS-17

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\MSVOA17\Data\090124 \K5478.D\	ZZZZZZZ	ZZZZZZZ	9/1/2024	22:55:00	

Analysis: 8260 | Analyst: F. Nagler | pH strips: 234223 | Tune Method: W073124.M

Date: 8/30/24 | Balance ID: — | ResCl strips: — | Run Method: ↓

Instr. MS17 | 50 mL Class A used for dilution FV | Syringes: 231174 | LIMS Run#: 852468

Data Path: j:\acqudata\msvoa(InstID)\(Date)

Pos.	Sample	Diln.	Diln. Prep./	RL	Vial	HS	Cl	pH	File#	OK?	Comments
1	BLK								K5385	Y	
2	TUNE								86	Y	Not needed
3	CCV								87	Y	
4	LCS-UNP								88	Y	
5	LCS-FP								89	Y	
6	BLK								90	(N)	
7	MBLK-UNP								91	Y	
8	MBLK-FP								92	Y	
9	R2408232-001	1.0		26525	1	(Y)	–	7	93	Y	
10	-002	1.0			1	(Y)	–	7	94	Y	
11	-004	1.0			1	(Y)	–	5	95	Y	
12	R2408139-001	1.0		26473	1	N	–	<2	96	Y	
13	-002	1.0			1	N	–	<2	97	Y	
14	-003	1.0			1	N	–	<2	98	Y	
15	R2408140-014	1.0			1	N	–	<2	99	Y	
16	-001	1.0			1	N	–	<2	K5400	Y	
17	-004	1.0			1	N	–	<2	01	Y	
18	-007	1.0			1	N	–	<2	02	Y	
19	-008	1.0			1	N	–	<2	03	Y	
20	-002	1.0			1	N	–	<2	04	Y	
21	-003	1.0			1	N	–	<2	05	Y	
22	-005	1.0			1	N	–	<2	06	Y	
23	-006	1.0			1	N	–	<2	07	Y	
24	-009	1.0			1	N	–	<2	08	Y	
25	-010	1.0			1	N	–	<2	09	Y	
26	-012	1.0			1	N	–	<2	10	Y	
27	-011	2.5	20/50mL		1	N	–	<2	11	Y	
28	-013	2.5	↓		1	N	–	<2	12	(N)	Rpt 1/1
29	R2408139-001MS	1.0			2	N	–	<2	13	Y	
30	-001MSD	1.0		↓	3	N	–	<2	14	Y	
31	BLK								15	Y	
32	↓								16	Y	

All samples = 5 mL + 5 uL combined IS/ 5 mL purged

Combined IS/Surr: —

T/G Primary 500 : 237012 – 5uL/50mL

HSL Primary : 236725 –

FR Primary : 236900 –

DCC Primary : 235592 –

Primary :

↓ (CCV)

FR Secondary 200 : 236901 – 5uL

T/G Secondary 500 : 237013 – 2uL

HSL Secondary : 236691 –

DCC Secondary : 236103 –

Secondary :

50mL (LCS) -12.5uL -5uL 50mL (SPK)

Surrogate 50 : 236870

Internal Std 50 : 236871

Reagents: —

Analysis: 8260 | Analyst: F. Naglee | pH strips: 234223 | Tune Method: W0731214.M

Date: 8/31/24 | Balance ID: — | ResCl strips: — | Run Method: ↓

Instr. MS17 | 50 mL Class A used for dilution FV | Syringes: 231174 | LIMS Run#: 852643

Data Path: j:\acqudata\msvoa(InstID)\(Date)

Pos.	Sample	Diln.	Diln. Prep./	RL	Vial	HS	Cl	pH	File#	OK?	Comments
1	BLK								K5418	Y	
2	↓								19	Y	
3	CCV								20	(N)	
4	CCV								21	Y	
5	LCS-FP								22	Y	
6	BLK								23	(N)	
7	MBLK-UNP								24	Y	
8	MBLK-FP								25	Y	
9	R2408139-011	1.0		26473	1	N	–	<2	26	Y	
10	↓ -013	1.0		↓	1	N	–	<2	27	Y	
11	R2408140-013	1.0			2	N	–	<2	28	Y	
12	R2408139-005	1.0			1	N	–	<2	29	Y	
13	-010	1.0			1	N	–	<2	30	Y	
14	-004	1.0			1	N	–	<2	31	Y	
15	-007	1.0			1	N	–	<2	32	Y	
16	-008	1.0			1	N	–	<2	33	Y	
17	-012	2.0	25/5mL		1	N	–	<2	34	(Y)	Rpt 1/5
18	R2408146-005	1.0		26396	1	N	–	<2	35	Y	
19	-006	1.0			1	N	–	<2	36	Y	
20	-007	1.0			1	N	–	<2	37	Y	
21	-008	1.0			1	N	–	<2	38	Y	
22	-009	1.0			1	N	–	<2	39	Y	
23	-010	5.0	10/50mL		1	N	–	<2	40	Y	
24	-011	1.0			1	N	–	<2	41	Y	
25	-012	1.0			1	N	–	<2	42	Y	
26	-013	1.0			1	N	–	<2	43	Y	
27	-014	1.0			1	N	–	<2	44	Y	
28	-015	1.0		↓	1	N	–	<2	45	Y	
29	R2408139-008MS	1.0		26473	2	N	–	<2	46	Y	
30	↓ -008MSD	1.0		↓	3	N	–	<2	47	Y	
31	BLK								48	Y	
32	↓								↓ 49	Y	

All samples = 5 mL + 5 uL combined IS/ 5 mL purged

Combined IS/Surr: —

Surrogate 50: 236870

Internal Std 50: 236871

Reagents: —

THM Primary 500: 237012 – 5uL/50mL

HSL Primary: 236725 –

Fr Primary: 236900 –

OCC Primary: 235592 –

Primary: ____

(CCV)

Fr Secondary 200: 236901 – 5uL

THM Secondary 500: 237013 – 2uL

HSL Secondary: 236691 –

OCC Secondary: 236103 –

Secondary: ____

50mL (LCS) -12.5L -5L 5mL (SPK)

Analysis: 8260	Analyst: F.Nu[illegible]	pH strips: 234223	Tune Method: W073124.M
Date: 9/1/24	Balance ID: —	ResCl strips: —	Run Method: ↓
Instr. MS17	50 mL Class A used for dilution FV	Syringes: 231174	LIMS Run#: 852662

Data Path: j:\acqudata\msvoa(InstID)\(Date)

Pos.	Sample	Diln.	Diln. Prep./	RL	Vial	HS	CI	pH	File#	OK?	Comments
1	BLK								K5450	Y	
2	↓								51	Y	
3	CCV								52	Y	
4	LCS-FP								53	Y	
5	BLK								54	(N)	
6	MBLK-UNP								55	Y	
7	MBLK-FP								56	Y	
8	R2408139-012	5.0	10/5mL	26473	2	N	—	<2	57	Y	DL
9	R2408146-001	1.0		26396	1	N	—	<2	58	Y	
10	-002	50.0	1/5mL		1	N	—	<2	59	(Y)	Rpt 1/100
11	-003	250.0	1/100mL → 20/5mL		1	N	—	<2	60	(N)	Rpt 1/100
12	-004	5.0	10/5mL		1	N	—	<2	61	Y	
13	-016	1.0			1	N	—	<2	62	Y	
14	-017	1.0			1	N	—	<2	63	Y	
15	-018	1.0			1	N	—	<2	64	Y	
16	-019	1.0			1	N	—	<2	65	Y	
17	-020	1.0			1	N	—	<2	66	Y	
18	-021	1.0			1	N	—	<2	67	Y	
19	-022	2.0	25/5mL		1	N	—	<2	68	Y	
20	-023	2.5	20/5mL		1	N	—	<2	69	(Y)	Rpt 1/5
21	-024	2.5	↓		1	N	—	<2	70	Y	
22	-025	1.0			1	N	—	<2	71	(Y)	Rpt 1/5
23	-026	1.0			1	N	—	<2	72	Y	
24	-027	10.0	5/5mL		1	N	—	<2	73	Y	
25	-028	1.0			1	N	—	<2	74	Y	
26	-002	100.0	1/100mL		2	N	—	<2	75	Y	DL
27	-003	100.0	↓		1	N	—	<2	76	Y	
28	-004 MS	5.0	10/5mL		1	N	—	<2	77	Y	
29	-004 MSD	5.0	↓	↓	1	N	—	<2	78	Y	
30	BLK								79	Y	
31	↓								80	Y	
32									81	Y	

All samples = 5 mL + 5 uL combined IS/ 5 mL purged

Combined IS/Surr: —

Surrogate 50: 236870

Internal Std 50: 236871

Reagents: —

T/G Primary 500: 237012 — 5mL/50mL

HSL Primary: 236725 — ↓ (CCV)

Fr Primary: 236900 —

OCC Primary: 235592 —

Primary:

Fr Secondary 200: 236901 — 5mL

T/G Secondary 500: 237013 — 2mL

HSL Secondary ↓: 236691 — ↓

OCC Secondary ↓: 236103 — ↓

Secondary:

-12.5uL − 5uL / 50mL (LCS) / 50mL (SPK)

Volatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 18:08
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU011-F009	**Units:**	ug/L
Lab Code:	R2408139-001	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	09/02/24 10:46	
Ethene	5.0 U	5.0	1.3	1	09/02/24 10:46	
Methane	**170**	5.2	3.0	1	09/02/24 10:46	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 14:17
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU009-F009	**Units:**	ug/L
Lab Code:	R2408139-002	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	09/02/24 10:58	
Ethene	5.0 U	5.0	1.3	1	09/02/24 10:58	
Methane	5.2 U	5.2	3.0	1	09/02/24 10:58	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 16:05
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU-016-F009	**Units:**	ug/L
Lab Code:	R2408139-003	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	09/02/24 11:10	
Ethene	5.0 U	5.0	1.3	1	09/02/24 11:10	
Methane	**420**	5.2	3.0	1	09/02/24 11:10	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 20:00
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FD001-D009	**Units:**	ug/L
Lab Code:	R2408139-004	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	09/02/24 11:23	
Ethene	5.0 U	5.0	1.3	1	09/02/24 11:23	
Methane	**410**	5.2	3.0	1	09/02/24 11:23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 08:42
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU015-F009	**Units:**	ug/L
Lab Code:	R2408139-005	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	09/02/24 11:36	
Ethene	5.0 U	5.0	1.3	1	09/02/24 11:36	
Methane	**7.0**	5.2	3.0	1	09/02/24 11:36	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 10:30
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU010-F009	**Units:**	ug/L
Lab Code:	R2408139-007	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	09/02/24 11:47	
Ethene	5.0 U	5.0	1.3	1	09/02/24 11:47	
Methane	**27**	5.2	3.0	1	09/02/24 11:47	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 12:55
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU008-F009	**Units:**	ug/L
Lab Code:	R2408139-008	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	**1.1 J**	5.2	0.85	1	09/02/24 12:00	
Ethene	5.0 U	5.0	1.3	1	09/02/24 12:00	
Methane	**11**	5.2	3.0	1	09/02/24 12:00	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 16:20
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU27A-F009	**Units:**	ug/L
Lab Code:	R2408139-010	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	100 U	100	17	20	09/02/24 12:35	
Ethene	100 U	100	25	20	09/02/24 12:35	
Methane	**6100**	100	60	20	09/02/24 12:35	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 08:40
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU019-F009	**Units:**	ug/L
Lab Code:	R2408139-012	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	100 U	100	17	20	09/02/24 13:02	
Ethene	100 U	100	25	20	09/02/24 13:02	
Methane	**6100 D**	100	60	20	09/02/24 13:02	

ALS Group USA, Corp.
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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 08:40
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU019-F009	**Units:**	ug/L
Lab Code:	R2408139-012	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Ethane	52	U	52	8.5	10	09/02/24 12:49	
Ethene	50	U	50	13	10	09/02/24 12:49	
Methane	**7300**	**E**	52	30	10	09/02/24 12:49	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 10:01
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FB003-B009	**Units:**	ug/L
Lab Code:	R2408139-013	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

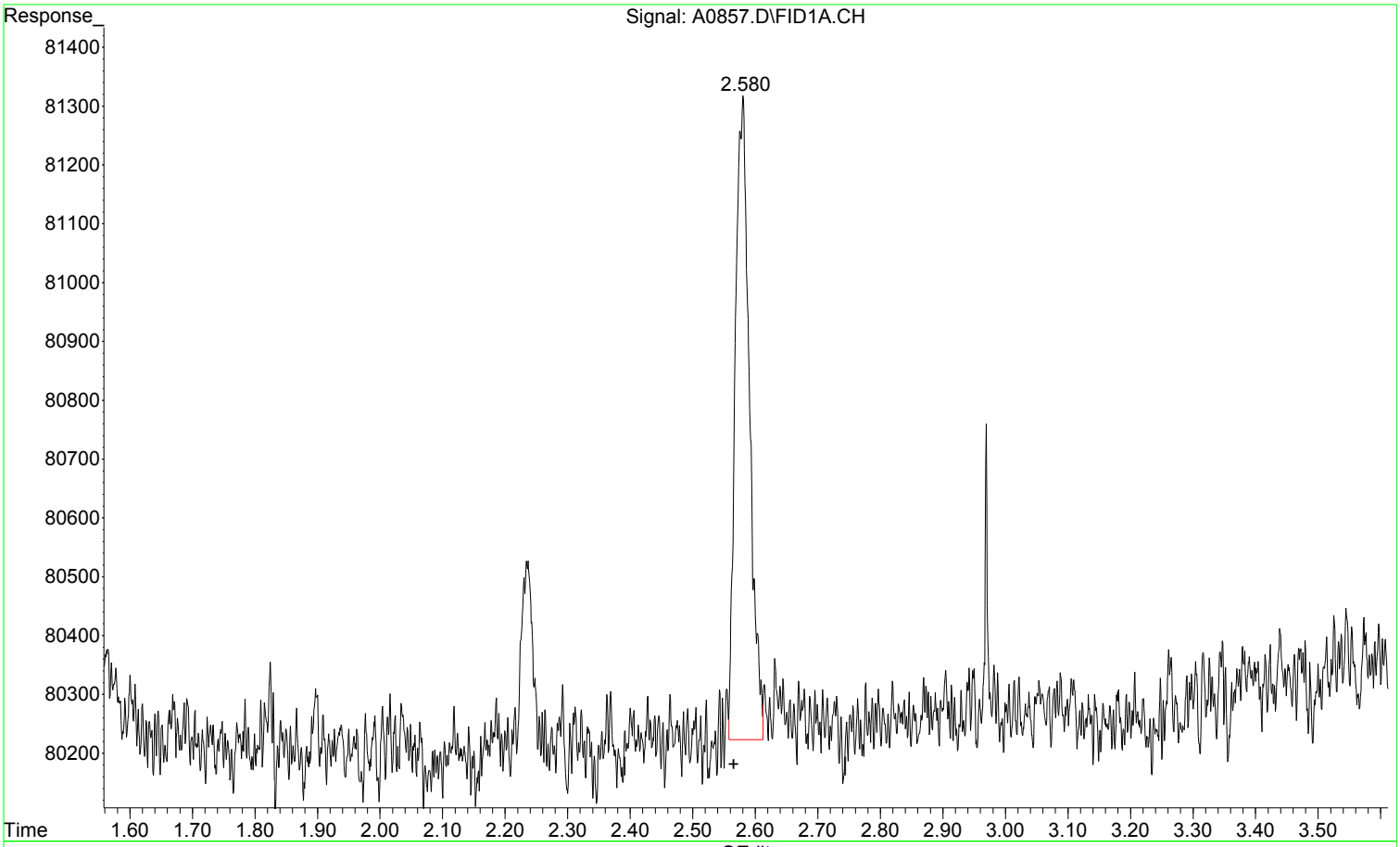
Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	09/02/24 13:41	
Ethene	5.0 U	5.0	1.3	1	09/02/24 13:41	
Methane	5.2 U	5.2	3.0	1	09/02/24 13:41	

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0857.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 10:46 am
Operator : F.NAEGLER
Sample : R2408139-001
Misc : CEC 979 T4
ALS Vial : 7 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 10:55:36 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane

2.580min 0.318 ug/L m

response 17204

Manual Integration:

After

Peak not found.

09/02/24

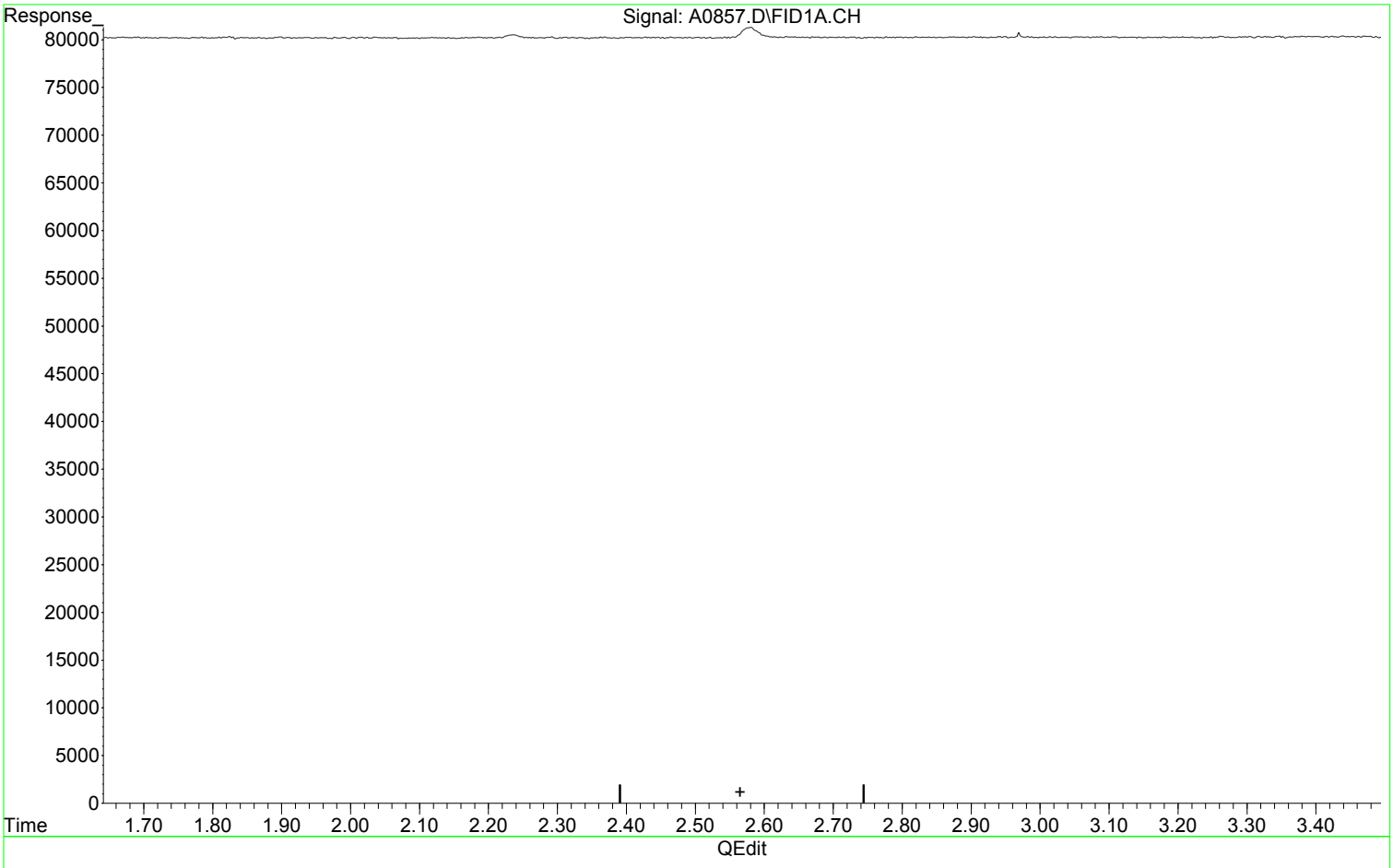
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0857.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 10:46 am
Operator : F.NAEGLER
Sample : R2408139-001
Misc : CEC 979 T4
ALS Vial : 7 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 10:55:36 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.565min 0.000 ug/L
response 0

Manual Integration:
Before

09/02/24

(+) = Expected Retention Time

1st FJ 09/03/24
2nd AM 09/03/24

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0857.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 10:46 am
Operator : F.NAEGLER
Sample : R2408139-001
Misc : CEC 979 T4
ALS Vial : 7 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 10:55:36 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.477	10284972	172.523	ug/L	
2)	Acetylene	0.000	0	N.D.	ug/L	
3)	Ethylene	0.000	0	N.D.	ug/L	
4)	Ethane	2.580	17204	0.318	ug/L	m
5)	Propane	0.000	0	N.D.	ug/L	

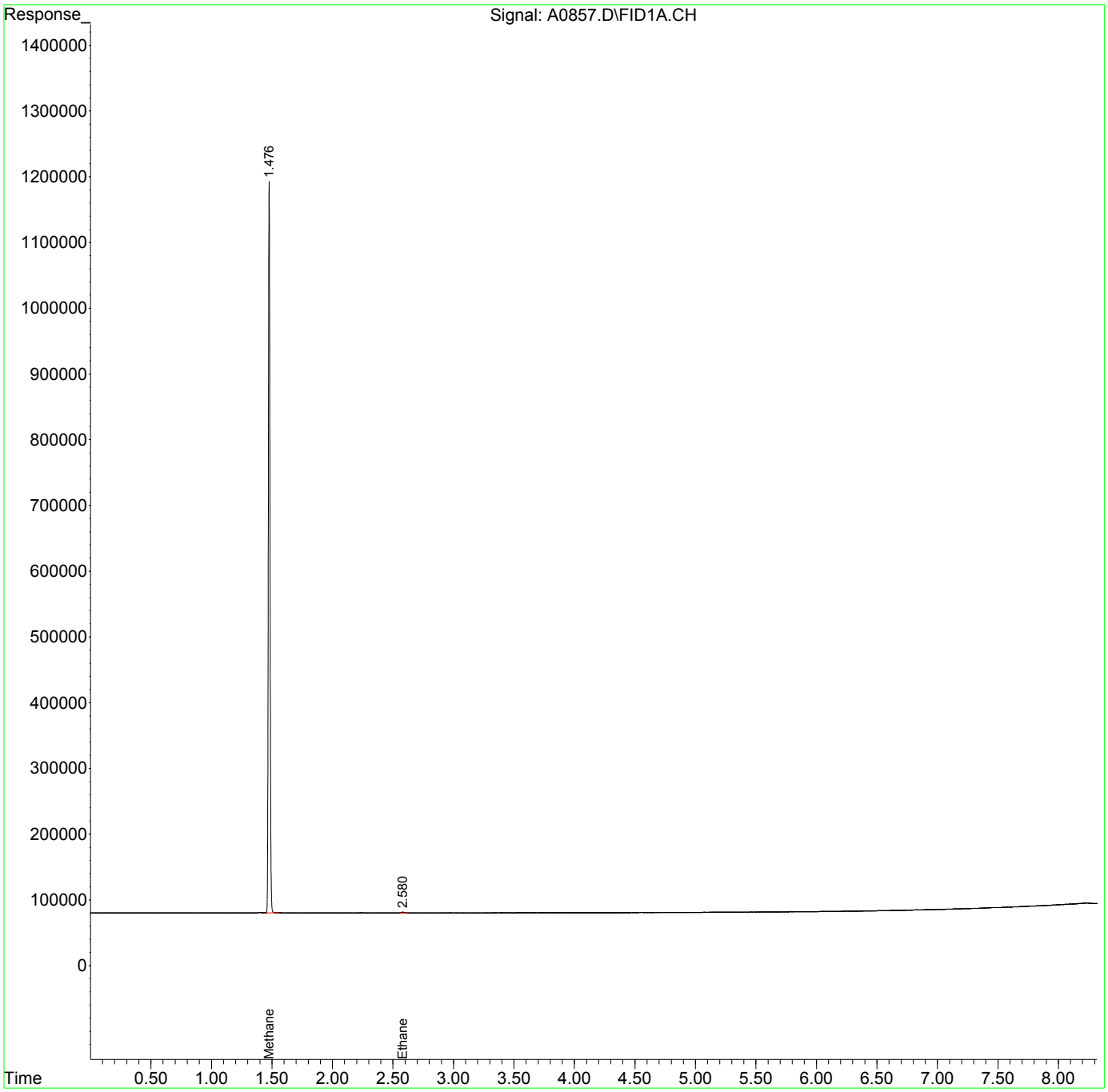
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0857.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 10:46 am
Operator : F.NAEGLER
Sample : R2408139-001
Misc : CEC 979 T4
ALS Vial : 7 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 10:55:36 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



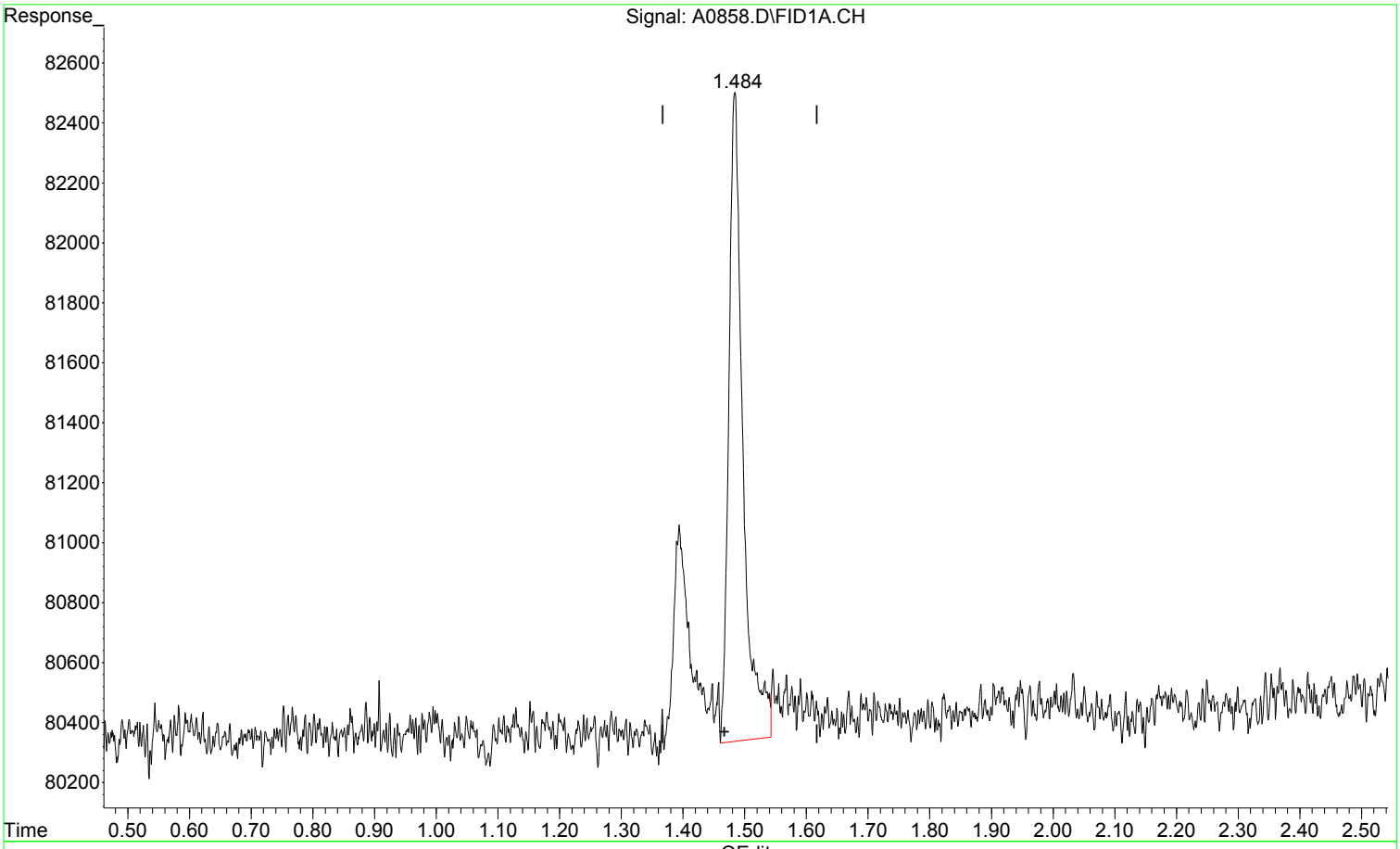
1st FJ 09/03/24
2nd AM 09/03/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0858.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 10:58 am
Operator : F.NAEGLER
Sample : R2408139-002
Misc : CEC 979 T4
ALS Vial : 8 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 11:07:37 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.484min 0.577 ug/L m

response 34417

Manual Integration:

After

Peak not found.

09/02/24

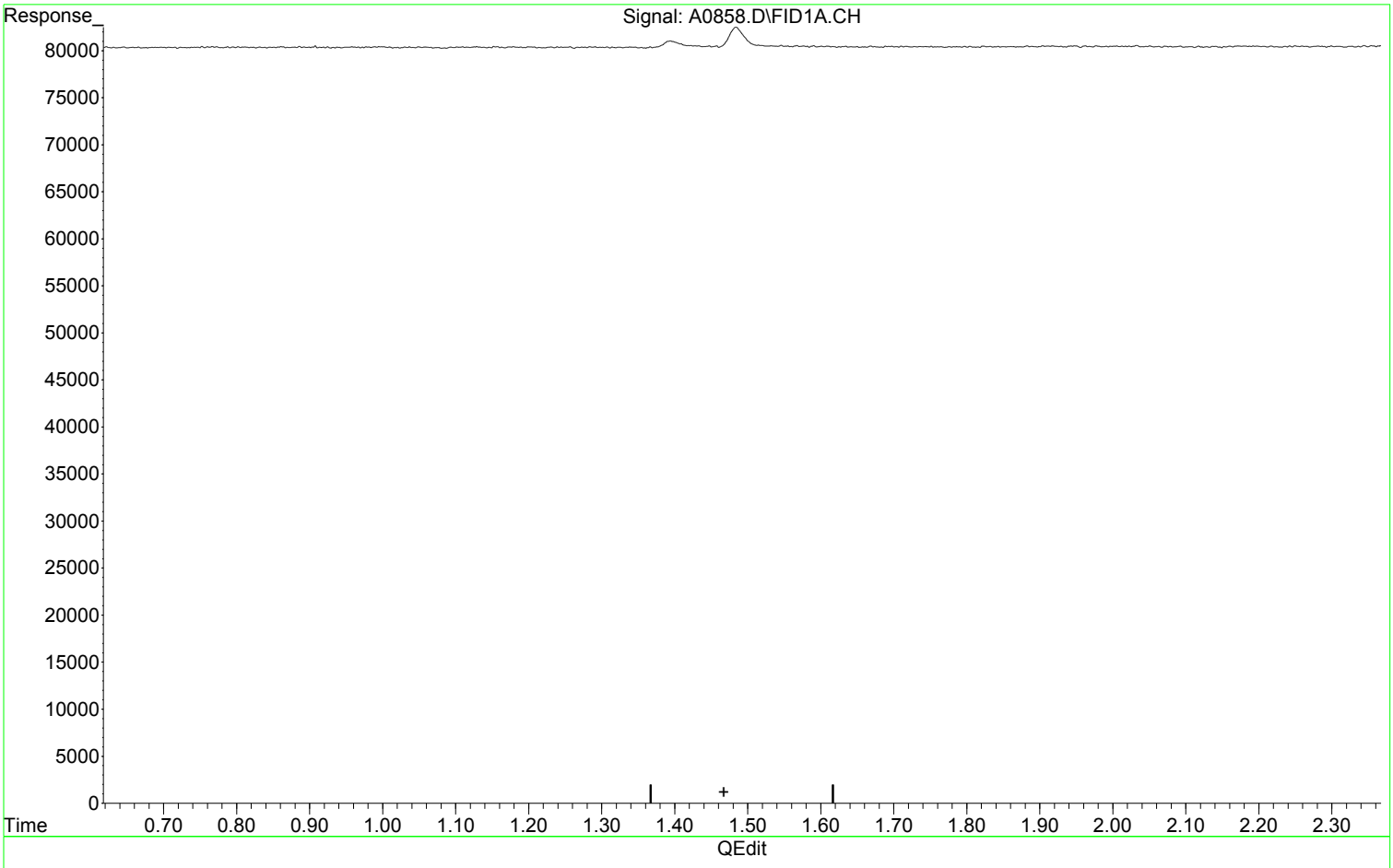
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0858.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 10:58 am
Operator : F.NAEGLER
Sample : R2408139-002
Misc : CEC 979 T4
ALS Vial : 8 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 11:07:37 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.467min 0.000 ug/L

response 0

Manual Integration:

Before

09/02/24

(+) = Expected Retention Time

1st FJ 09/03/24
2nd AM 09/03/24

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0858.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 10:58 am
Operator : F.NAEGLER
Sample : R2408139-002
Misc : CEC 979 T4
ALS Vial : 8 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 11:07:37 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.484	34417	0.577	ug/L	m
2)	Acetylene	0.000	0	N.D.	ug/L	
3)	Ethylene	0.000	0	N.D.	ug/L	
4)	Ethane	0.000	0	N.D.	ug/L	
5)	Propane	0.000	0	N.D.	ug/L	

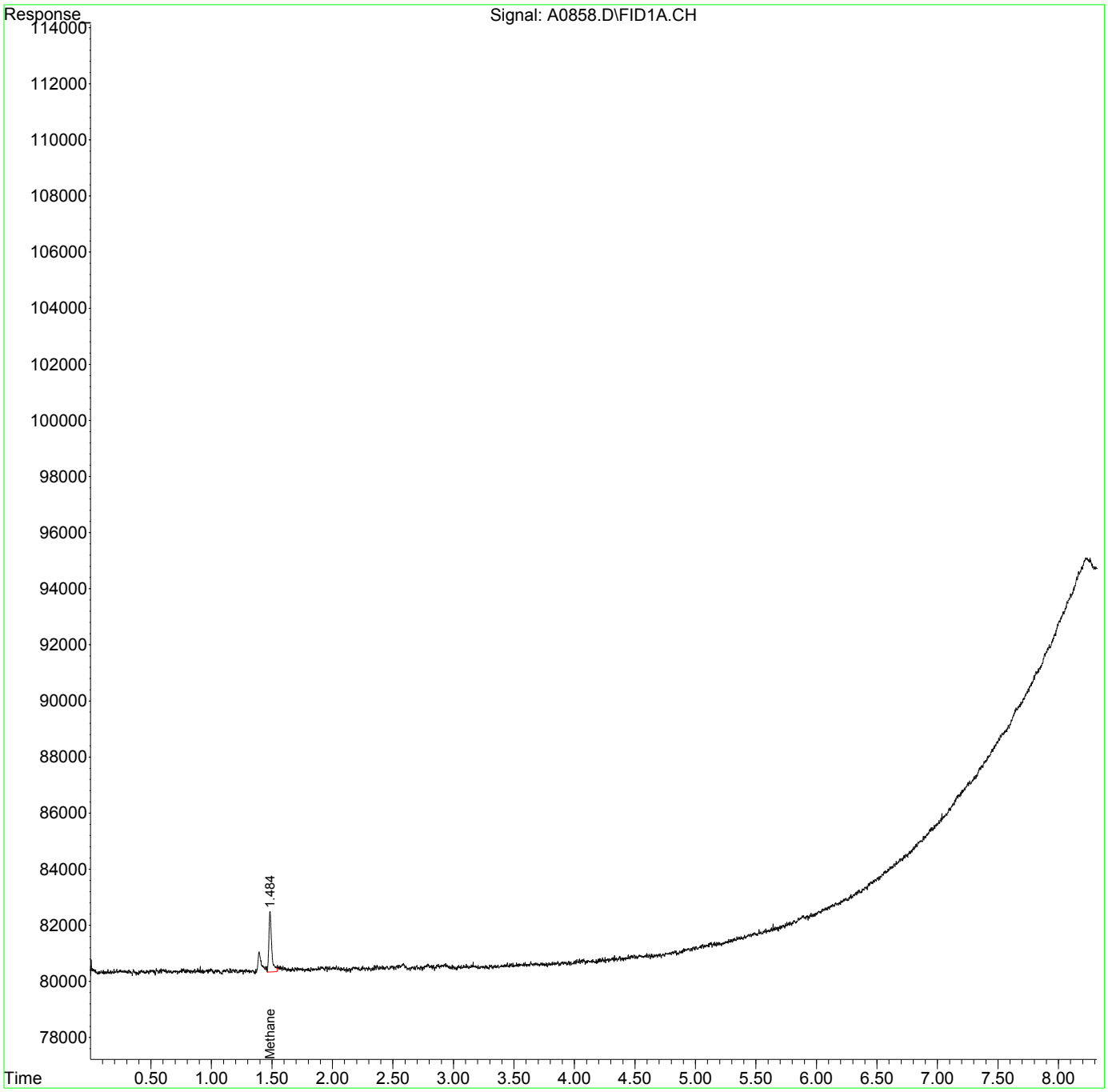
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0858.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 10:58 am
Operator : F.NAEGLER
Sample : R2408139-002
Misc : CEC 979 T4
ALS Vial : 8 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 11:07:37 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

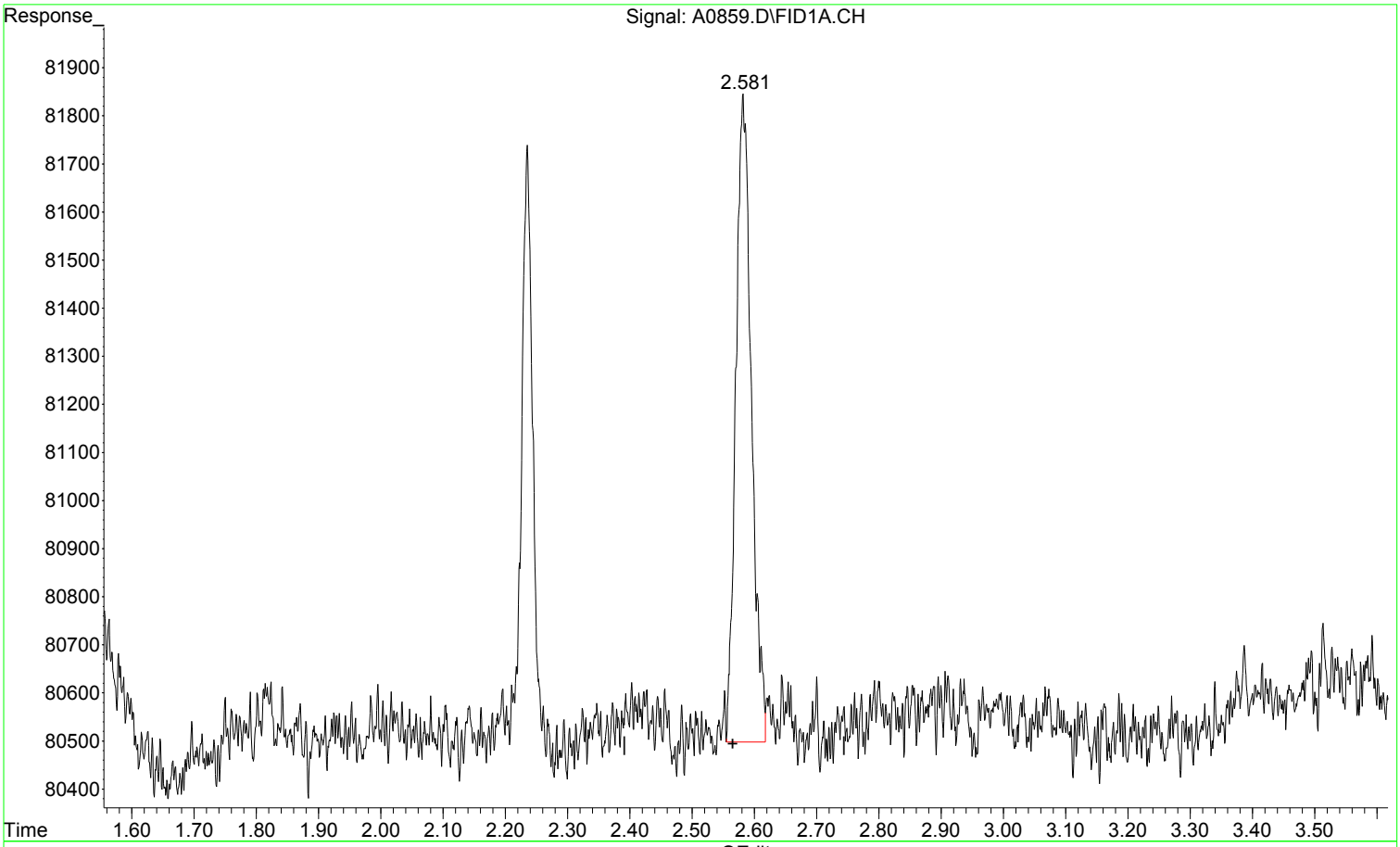


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0859.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 11:10 am
Operator : F.NAEGLER
Sample : R2408139-003
Misc : CEC 979 T4
ALS Vial : 9 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 11:19:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.581min 0.431 ug/L m
response 23299

Manual Integration:
After
Peak not found.
09/02/24

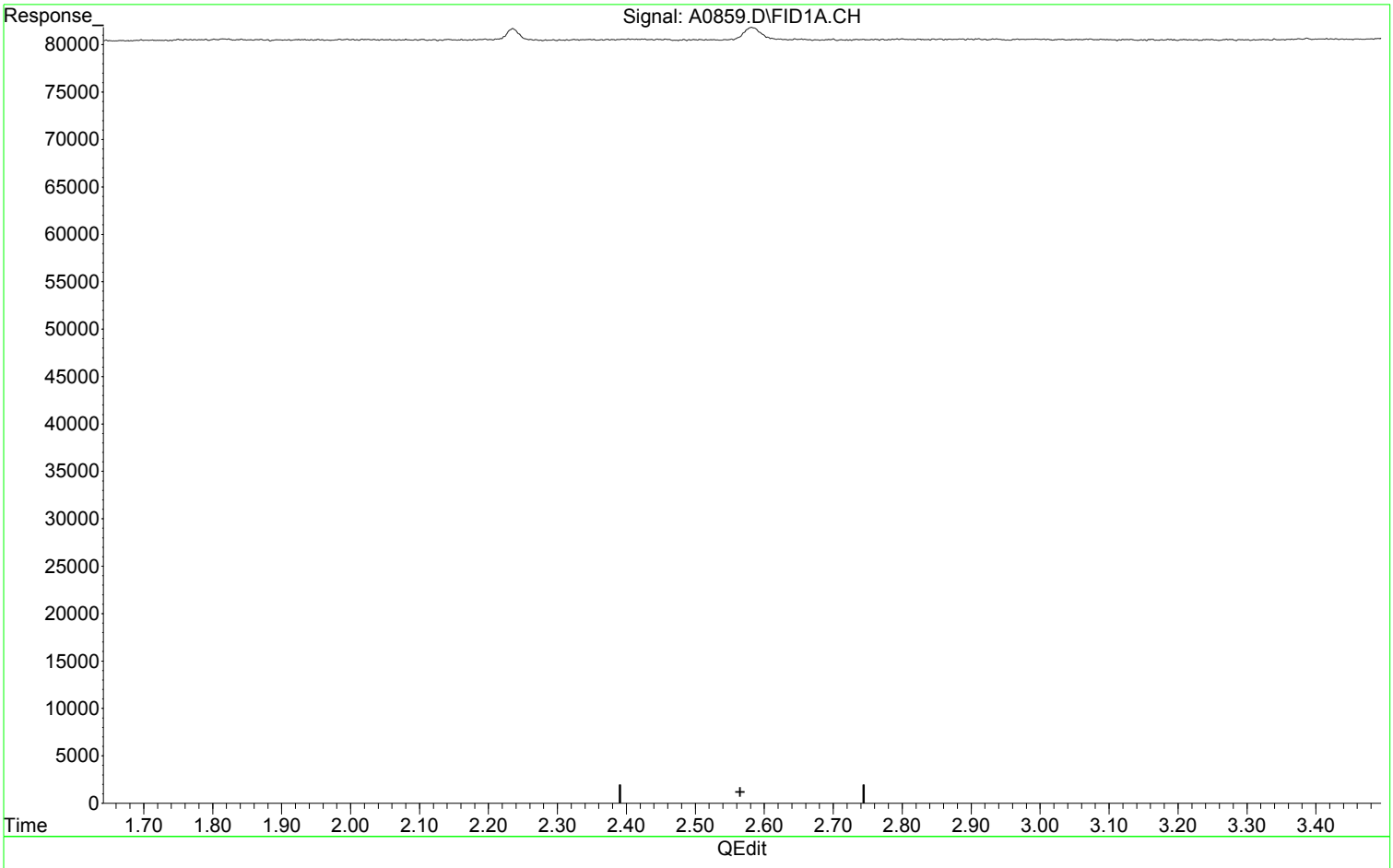
(+) = Expected Retention Time
RSK050224.M Mon Sep 02 11:19:36 2024 Page: 1

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0859.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 11:10 am
Operator : F.NAEGLER
Sample : R2408139-003
Misc : CEC 979 T4
ALS Vial : 9 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 11:19:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.565min 0.000 ug/L
response 0

Manual Integration:
Before

09/02/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0859.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 11:10 am
Operator : F.NAEGLER
Sample : R2408139-003
Misc : CEC 979 T4
ALS Vial : 9 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 11:19:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.477	25052883	420.245	ug/L	
2)	Acetylene	0.000	0	N.D.	ug/L	
3)	Ethylene	0.000	0	N.D.	ug/L	
4)	Ethane	2.581	23299	0.431	ug/L	m
5)	Propane	0.000	0	N.D.	ug/L	

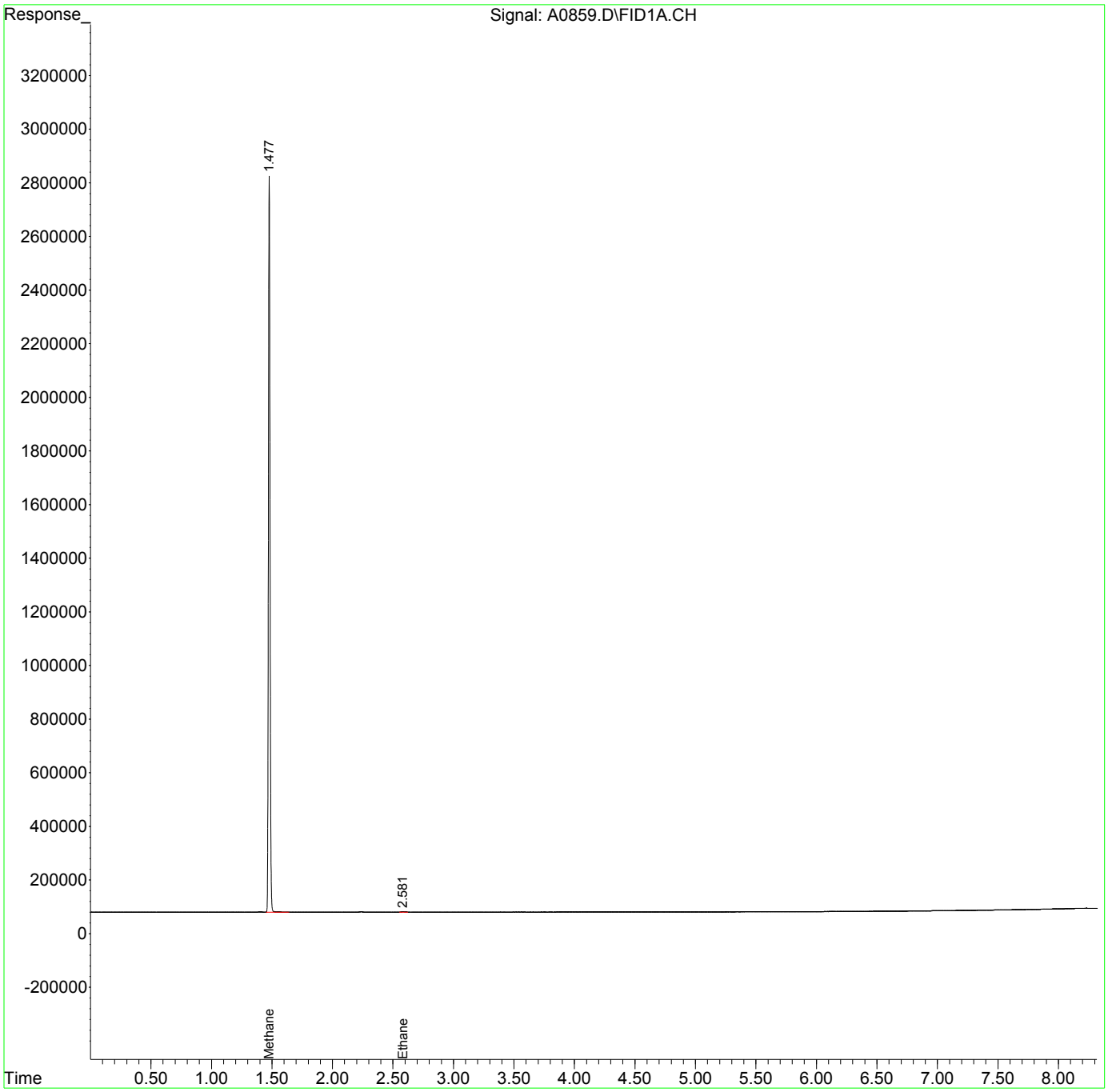
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0859.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 11:10 am
Operator : F.NAEGLER
Sample : R2408139-003
Misc : CEC 979 T4
ALS Vial : 9 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 11:19:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

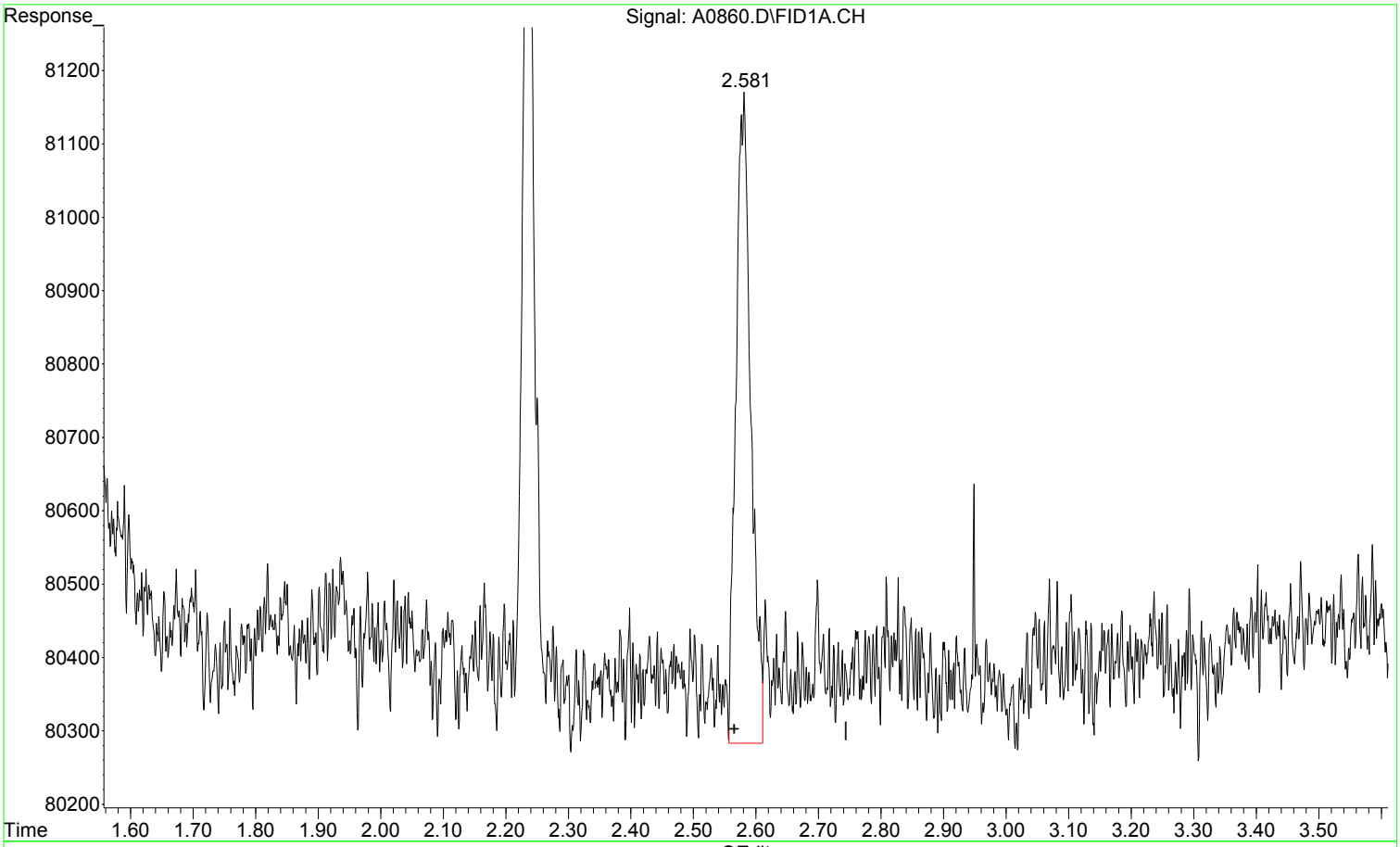


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0860.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 11:23 am
Operator : F.NAEGLER
Sample : R2408139-004
Misc : CEC 979 T4
ALS Vial : 10 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 11:34:27 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane

2.581min 0.271 ug/L m

response 14643

Manual Integration:

After

Peak not found.

09/02/24

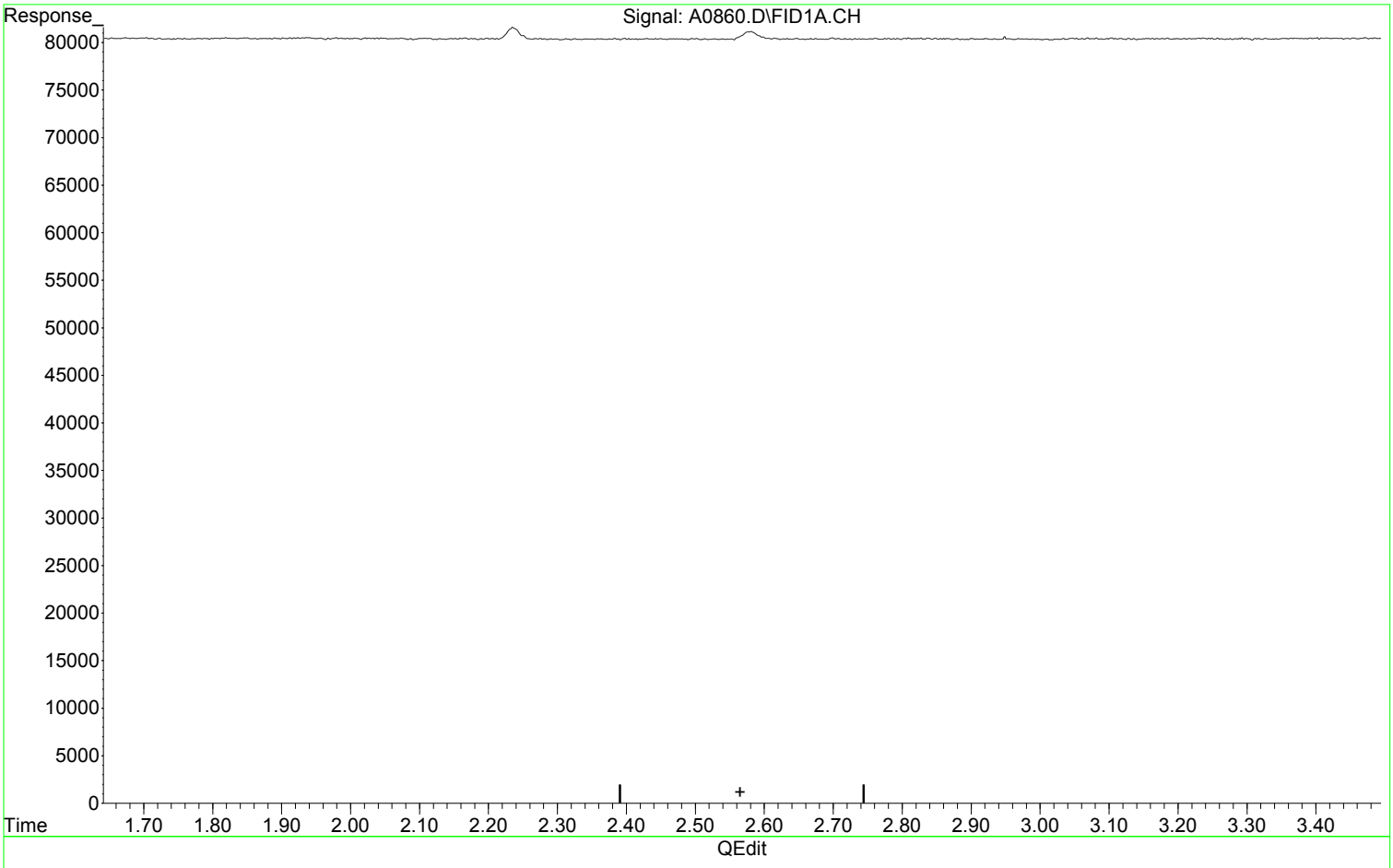
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0860.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 11:23 am
Operator : F.NAEGLER
Sample : R2408139-004
Misc : CEC 979 T4
ALS Vial : 10 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 11:34:27 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.565min 0.000 ug/L
response 0

Manual Integration:
Before
09/02/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0860.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 11:23 am
Operator : F.NAEGLER
Sample : R2408139-004
Misc : CEC 979 T4
ALS Vial : 10 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 11:34:27 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.478	24671880	413.854	ug/L	
2)	Acetylene	0.000	0	N.D.	ug/L	
3)	Ethylene	0.000	0	N.D.	ug/L	
4)	Ethane	2.581	14643	0.271	ug/L	m
5)	Propane	0.000	0	N.D.	ug/L	

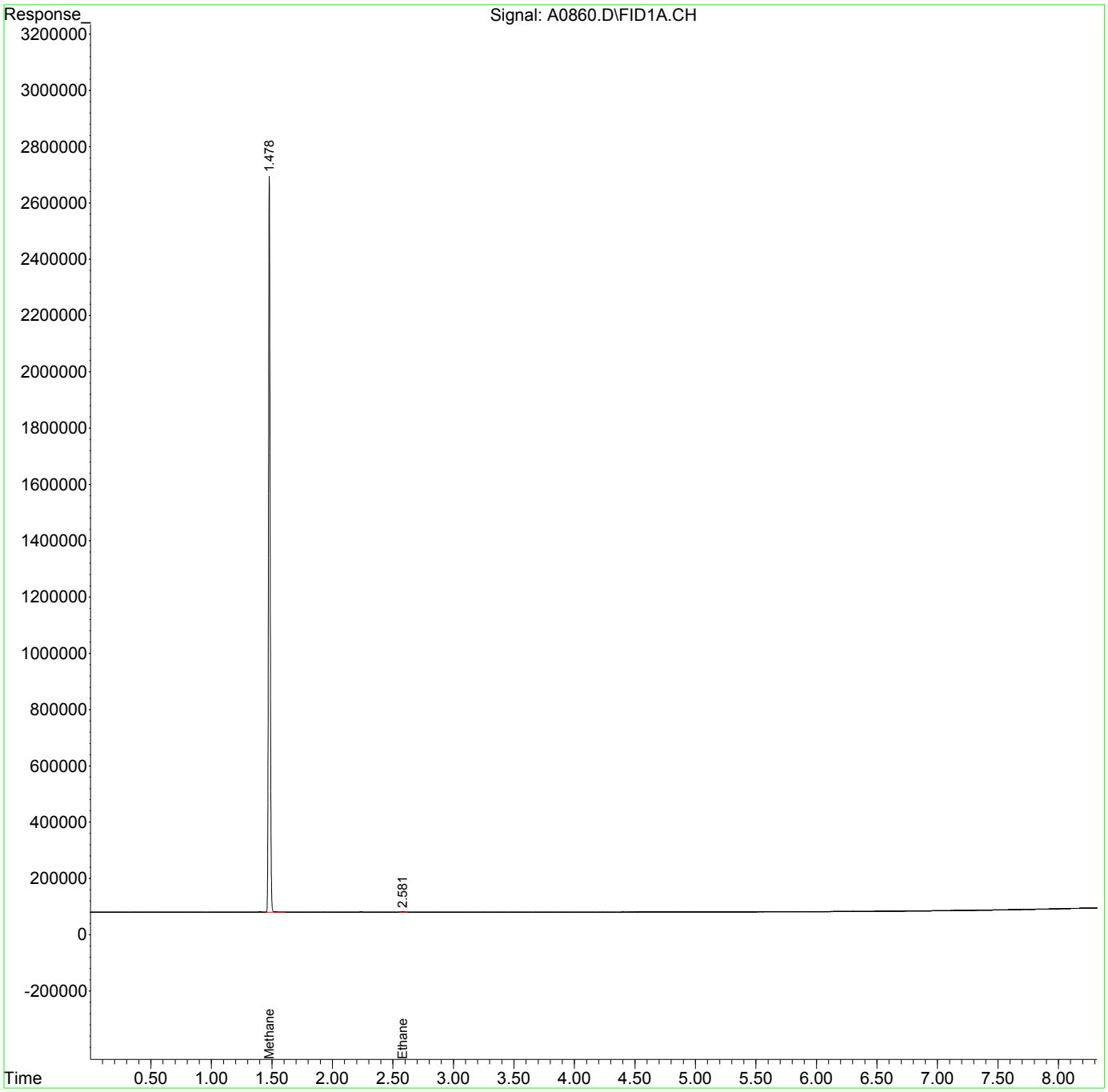
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0860.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 11:23 am
Operator : F.NAEGLER
Sample : R2408139-004
Misc : CEC 979 T4
ALS Vial : 10 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 11:34:27 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



1st FJ 09/03/24
2nd AM 09/03/24

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0861.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 11:36 am
Operator : F.NAEGLER
Sample : R2408139-005
Misc : CEC 979 T4
ALS Vial : 11 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 11:46:33 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.477	417997	7.012	ug/L
2)	Acetylene	0.000	0	N.D.	ug/L
3)	Ethylene	0.000	0	N.D.	ug/L
4)	Ethane	0.000	0	N.D.	ug/L
5)	Propane	0.000	0	N.D.	ug/L

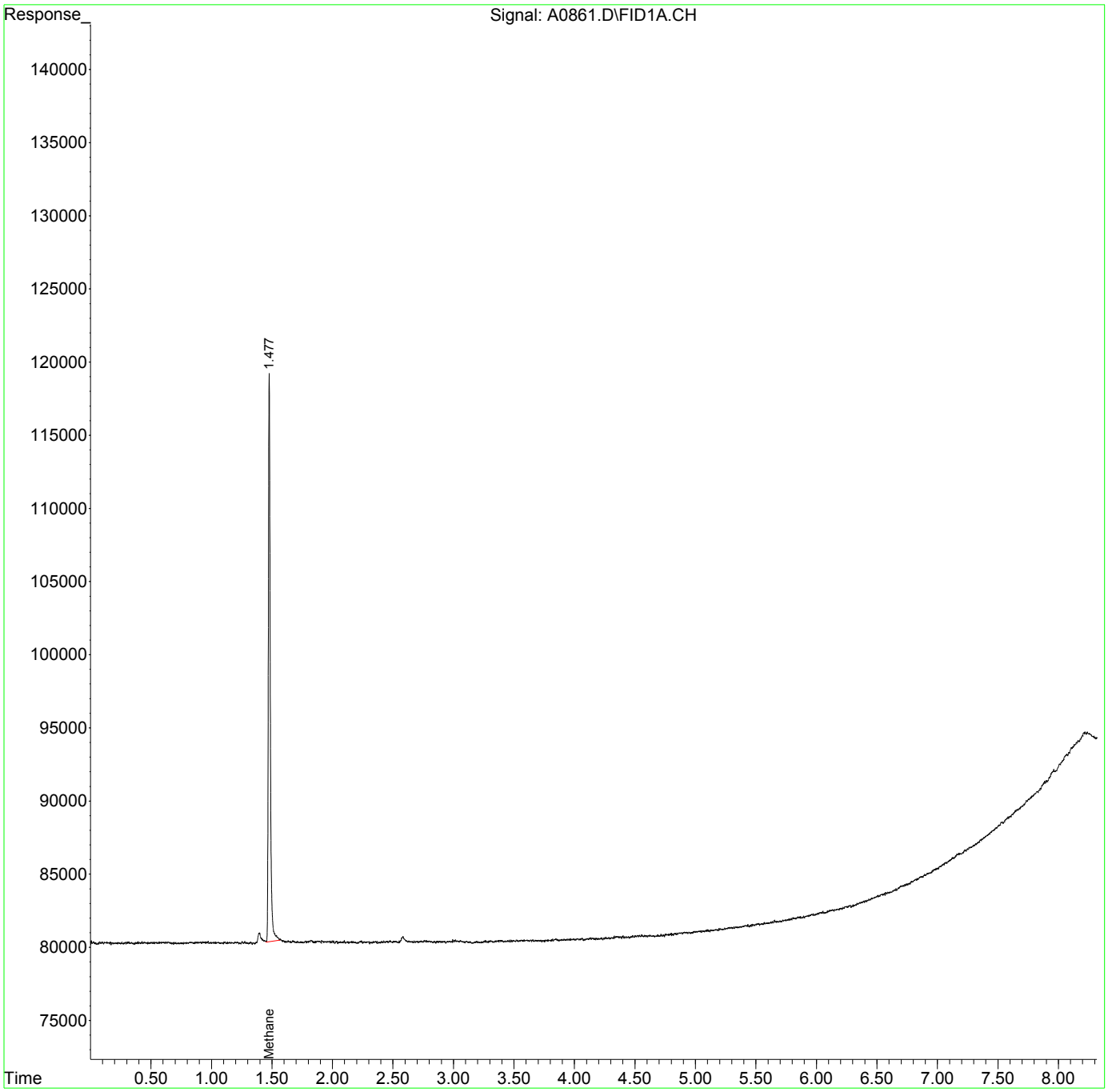
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0861.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 11:36 am
Operator : F.NAEGLER
Sample : R2408139-005
Misc : CEC 979 T4
ALS Vial : 11 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 11:46:33 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

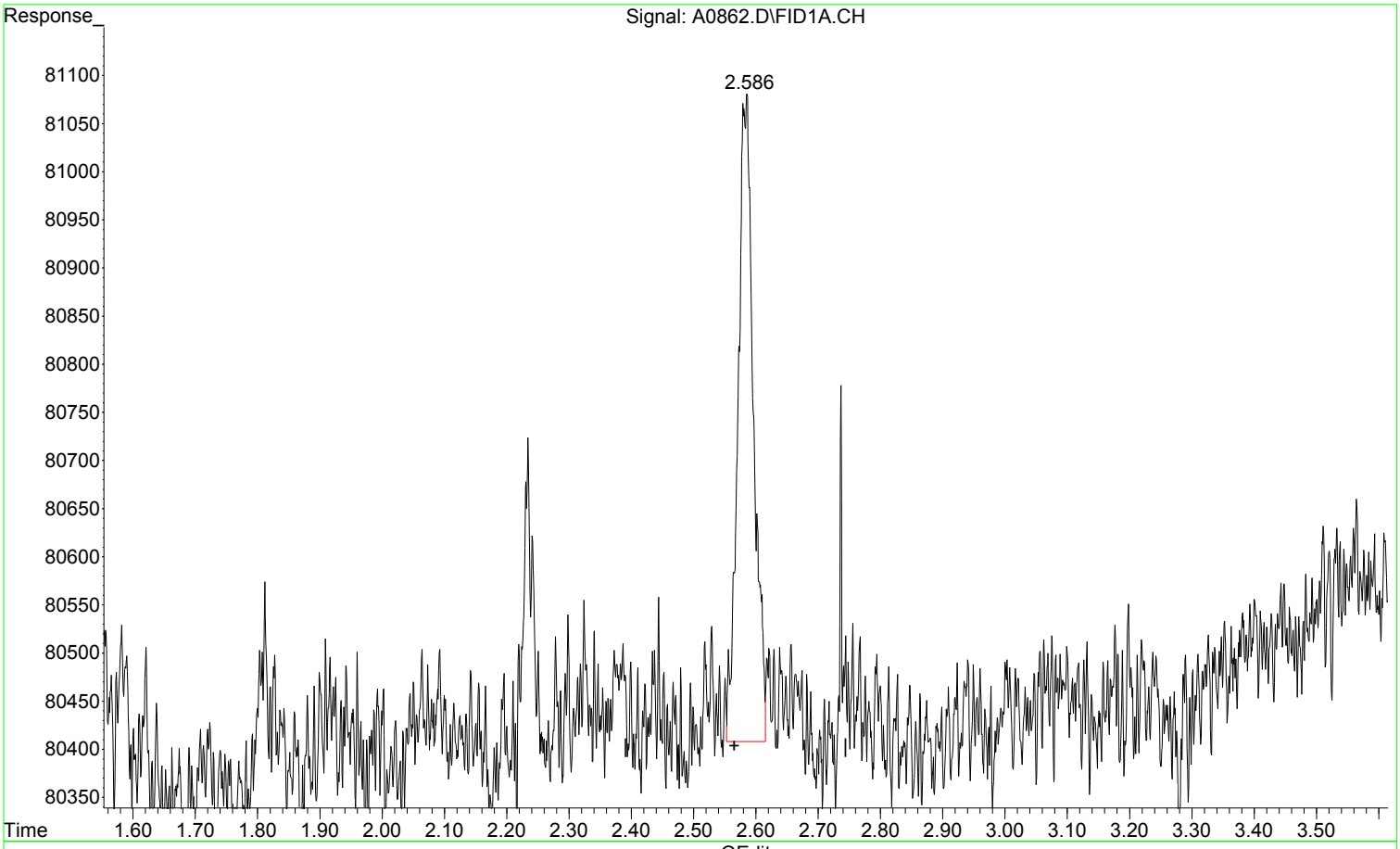


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0862.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 11:47 am
Operator : F.NAEGLER
Sample : R2408139-007
Misc : CEC 979 T4
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 11:57:45 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.586min 0.216 ug/L m
response 11684

Manual Integration:
After
Peak not found.
09/02/24

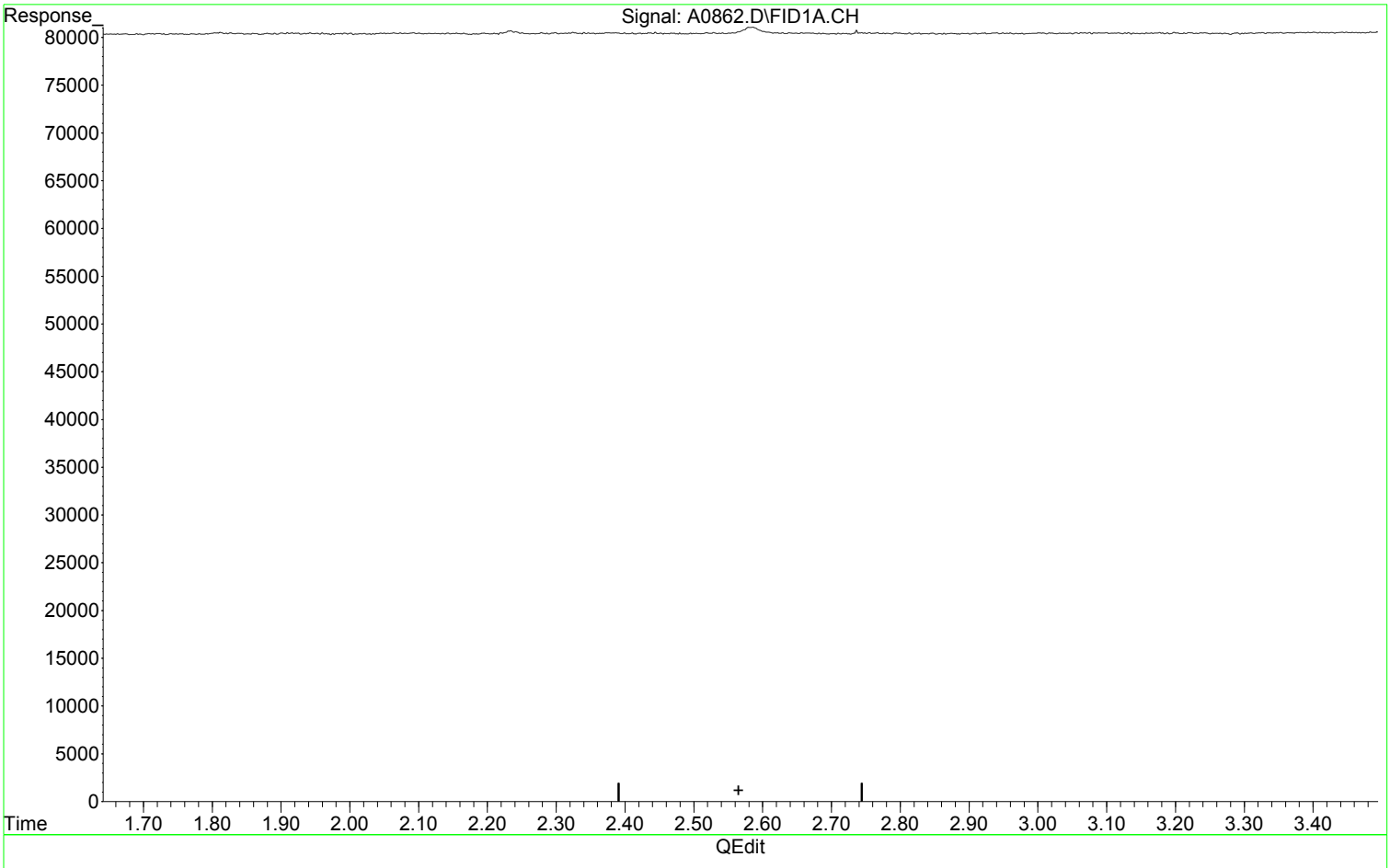
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0862.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 11:47 am
Operator : F.NAEGLER
Sample : R2408139-007
Misc : CEC 979 T4
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 11:57:45 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane

2.565min 0.000 ug/L

response 0

Manual Integration:

Before

09/02/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0862.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 11:47 am
Operator : F.NAEGLER
Sample : R2408139-007
Misc : CEC 979 T4
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 11:57:45 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.477	1630672	27.353	ug/L
2)	Acetylene	0.000	0	N.D.	ug/L
3)	Ethylene	0.000	0	N.D.	ug/L
4)	Ethane	2.586	11684	0.216	ug/L m
5)	Propane	0.000	0	N.D.	ug/L

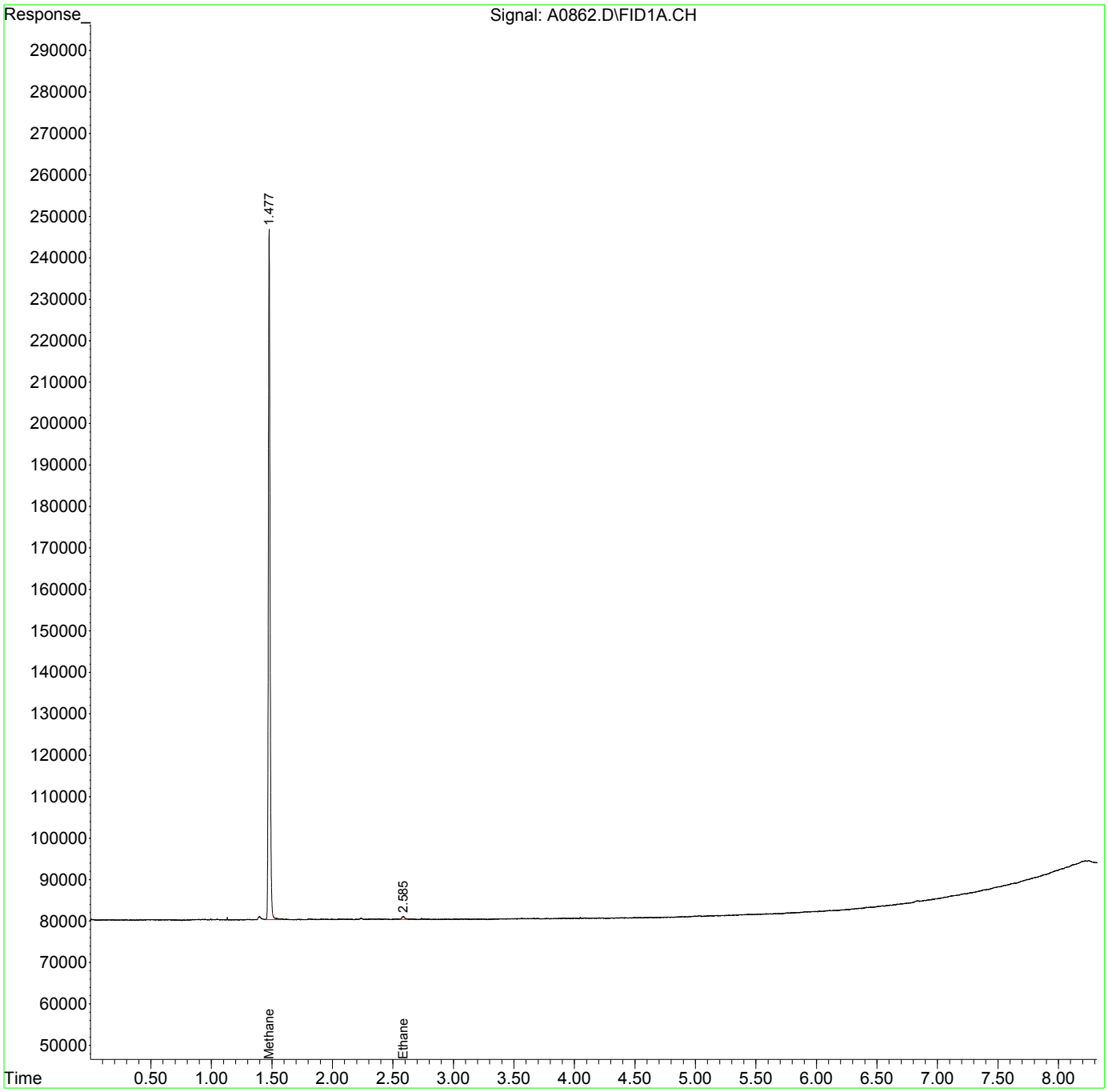
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0862.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 11:47 am
Operator : F.NAEGLER
Sample : R2408139-007
Misc : CEC 979 T4
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 11:57:45 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

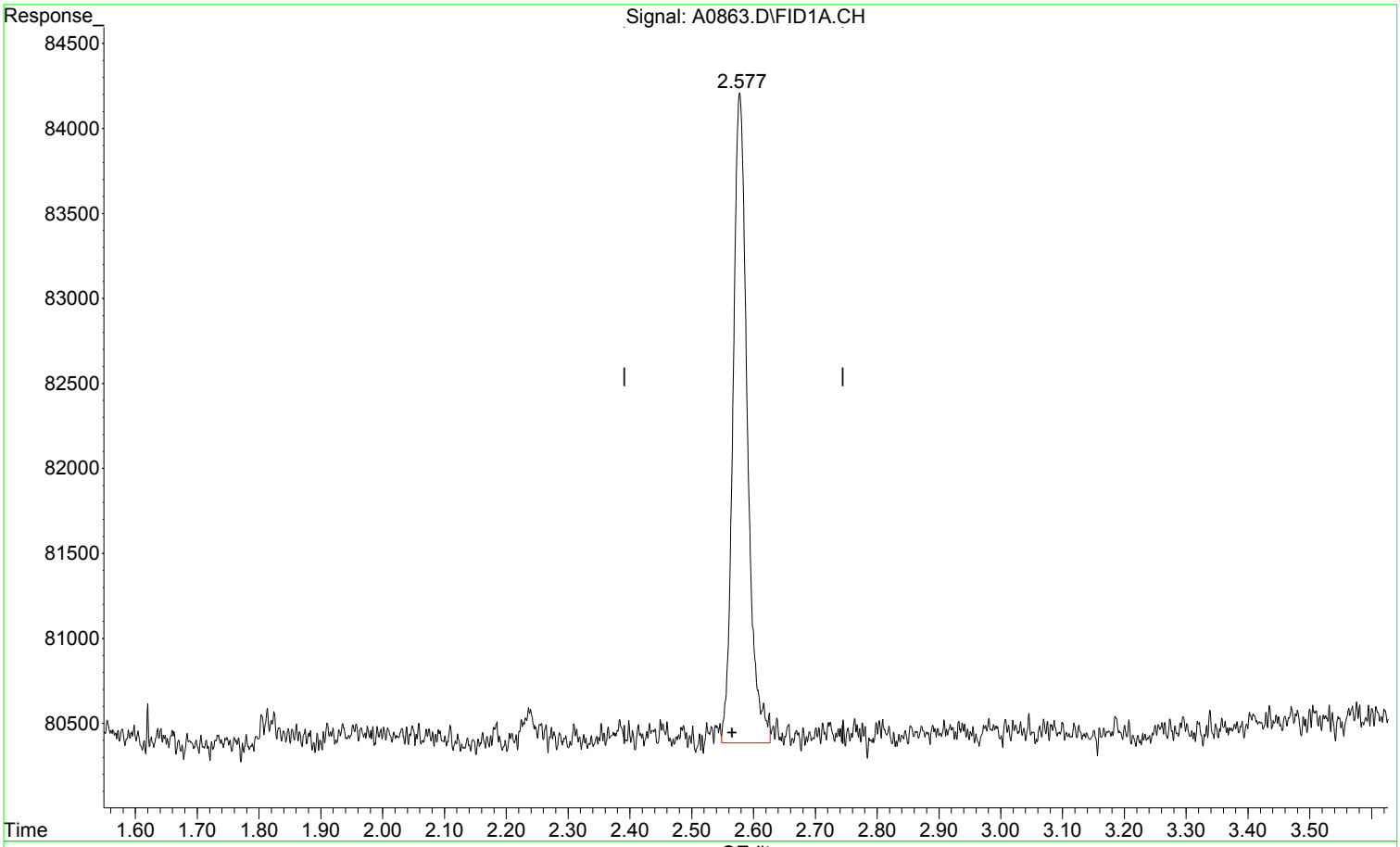


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0863.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 12:00 pm
Operator : F.NAEGLER
Sample : R2408139-008
Misc : CEC 979 T4
ALS Vial : 13 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 12:09:27 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.577min 1.137 ug/L m
response 61538

Manual Integration:
After
Peak not found.
09/02/24

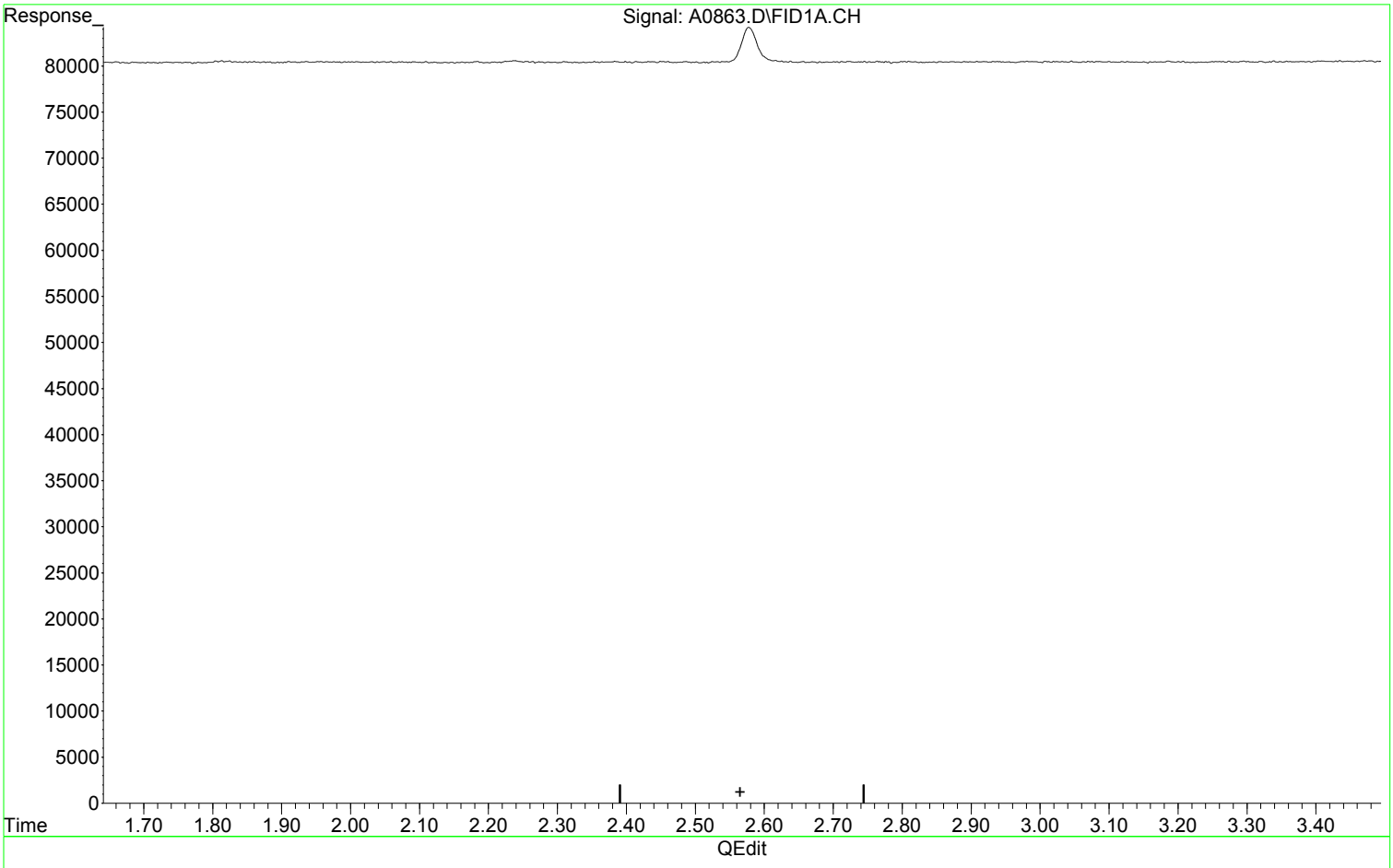
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0863.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 12:00 pm
Operator : F.NAEGLER
Sample : R2408139-008
Misc : CEC 979 T4
ALS Vial : 13 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 12:09:27 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane

2.565min 0.000 ug/L

response 0

Manual Integration:

Before

09/02/24

(+) = Expected Retention Time

1st FJ 09/03/24
2nd AM 09/03/24

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0863.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 12:00 pm
Operator : F.NAEGLER
Sample : R2408139-008
Misc : CEC 979 T4
ALS Vial : 13 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 12:09:27 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.477	665710	11.167	ug/L	
2)	Acetylene	0.000	0	N.D.	ug/L	
3)	Ethylene	0.000	0	N.D.	ug/L	
4)	Ethane	2.577	61538	1.137	ug/L	m
5)	Propane	0.000	0	N.D.	ug/L	

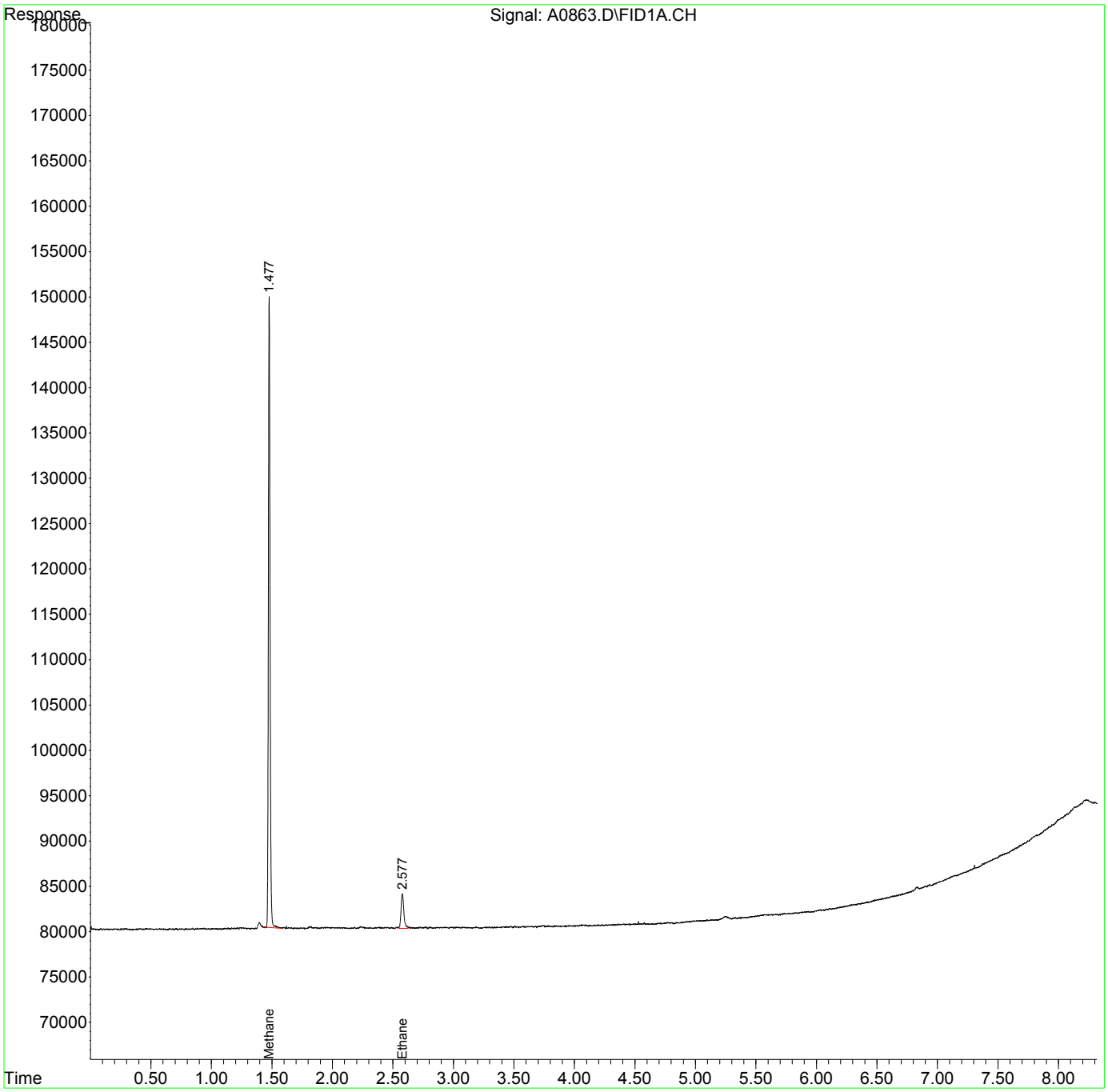
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0863.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 12:00 pm
Operator : F.NAEGLER
Sample : R2408139-008
Misc : CEC 979 T4
ALS Vial : 13 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 12:09:27 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



1st FJ 09/03/24
2nd AM 09/03/24

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0866.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 12:35 pm
Operator : F.NAEGLER
Sample : R2408139-010|20.0
Misc : CEC 979 T4
ALS Vial : 16 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 12:47:45 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.478	18328758	307.452	ug/L
2)	Acetylene	0.000	0	N.D.	ug/L
3)	Ethylene	0.000	0	N.D.	ug/L
4)	Ethane	0.000	0	N.D.	ug/L
5)	Propane	0.000	0	N.D.	ug/L

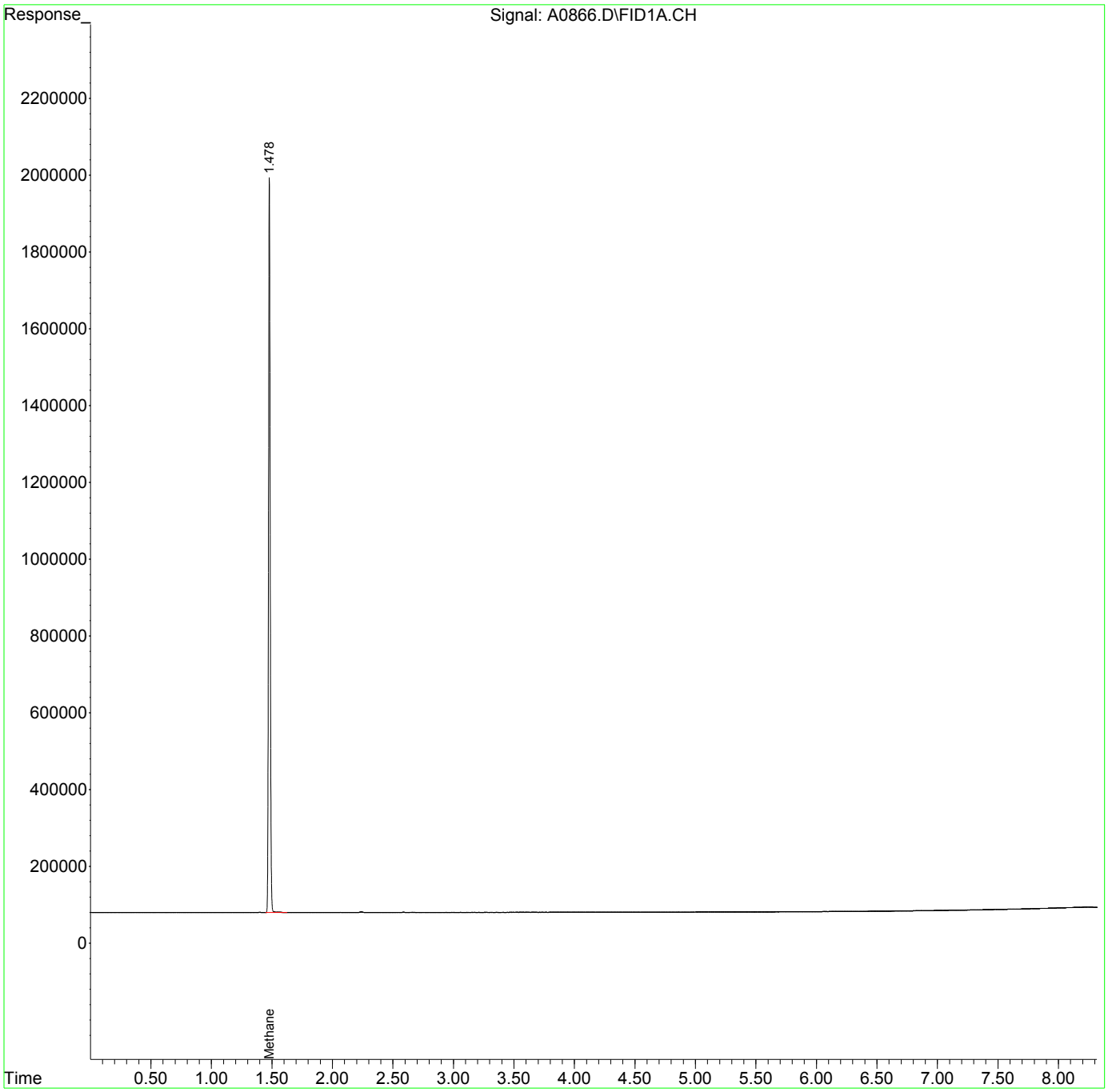
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0866.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 12:35 pm
Operator : F.NAEGLER
Sample : R2408139-010|20.0
Misc : CEC 979 T4
ALS Vial : 16 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 12:47:45 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

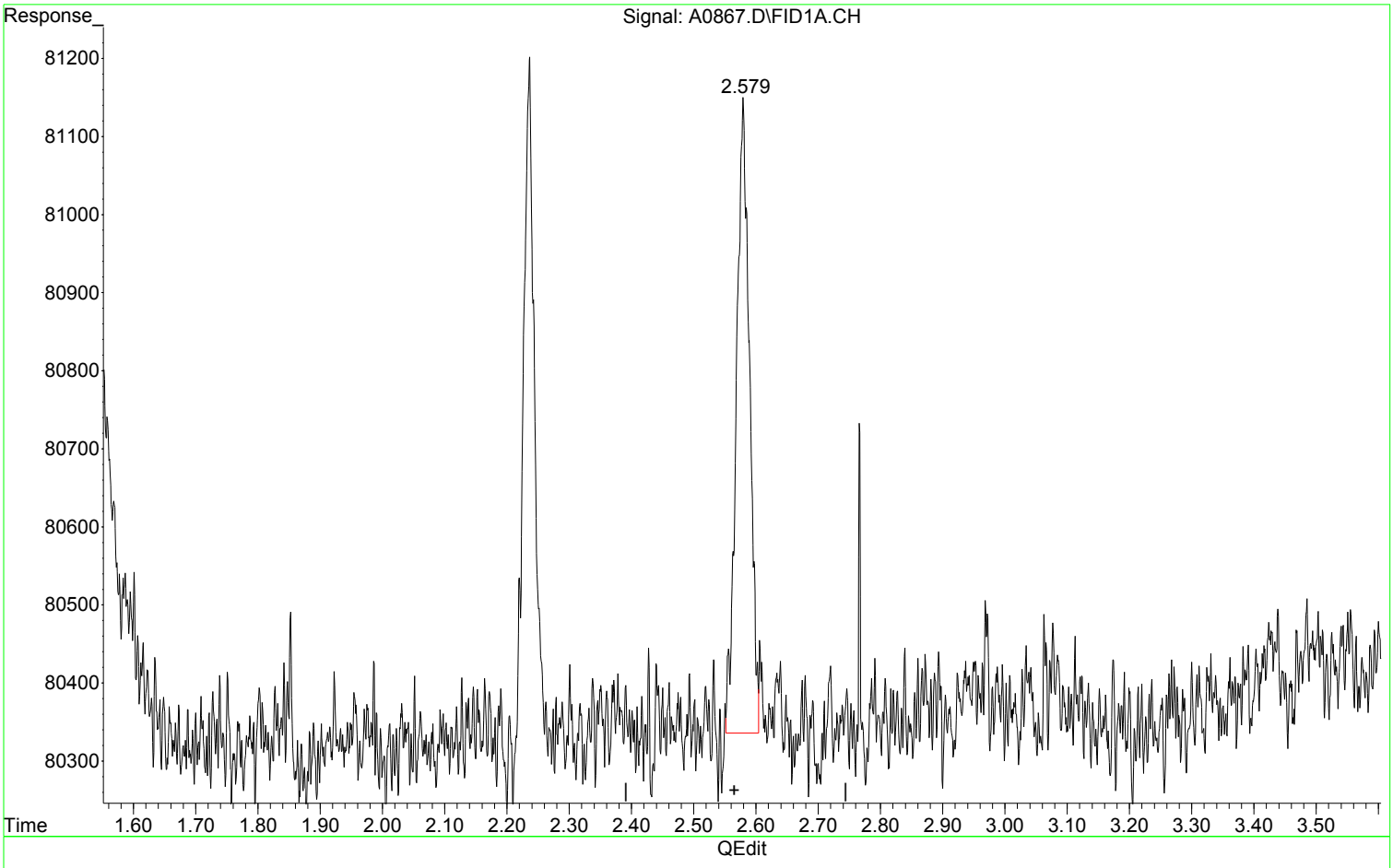


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0867.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 12:49 pm
Operator : F.NAEGLER
Sample : R2408139-012|10.0
Misc : CEC 979 T4
ALS Vial : 17 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 13:00:35 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.579min 0.220 ug/L m
response 11912

Manual Integration:
After
Peak not found.
09/02/24

(+) = Expected Retention Time

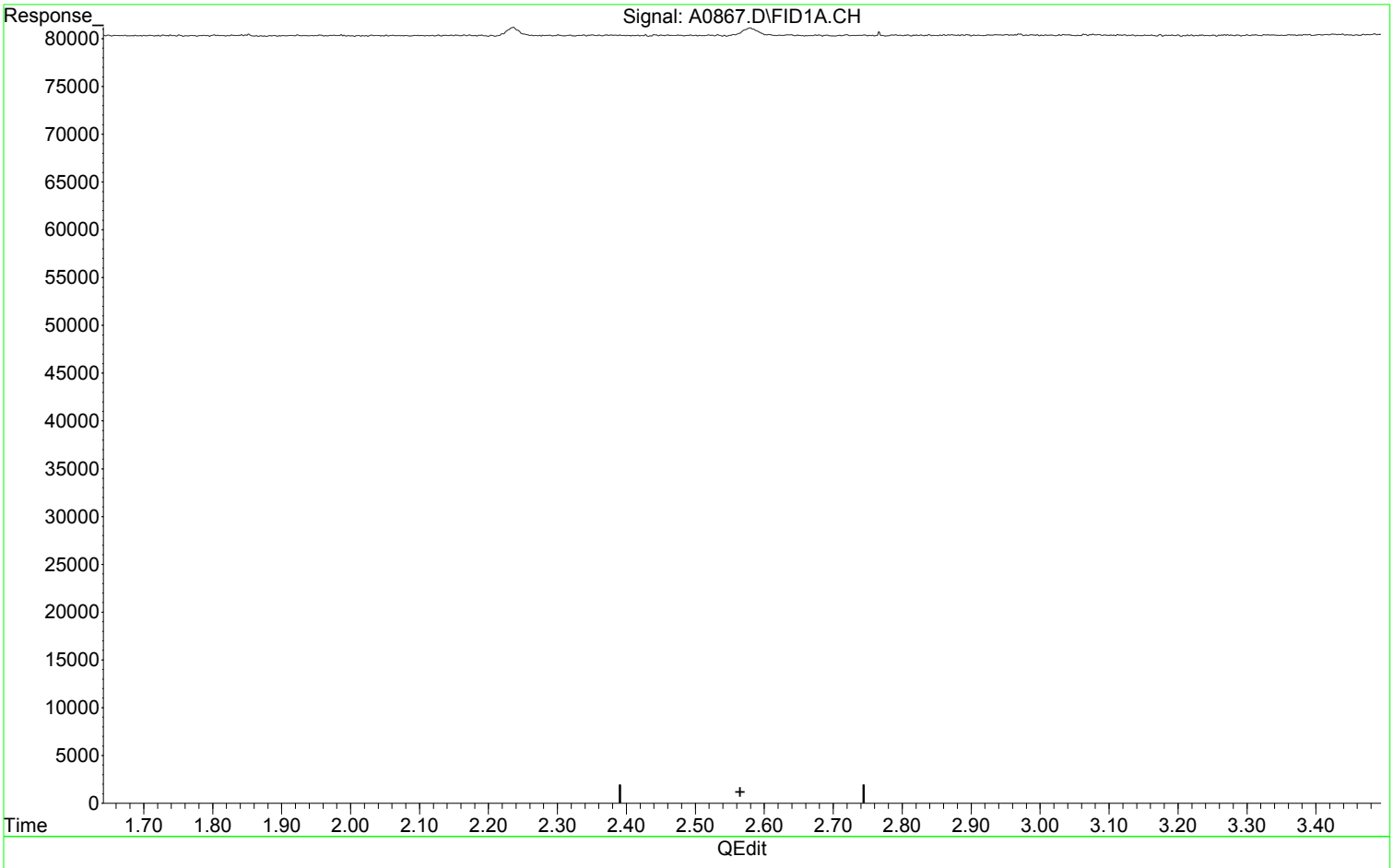
1st FJ 09/03/24
2nd AM 09/03/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0867.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 12:49 pm
Operator : F.NAEGLER
Sample : R2408139-012|10.0
Misc : CEC 979 T4
ALS Vial : 17 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 13:00:35 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane

2.565min 0.000 ug/L

response 0

Manual Integration:

Before

09/02/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0867.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 12:49 pm
Operator : F.NAEGLER
Sample : R2408139-012|10.0
Misc : CEC 979 T4
ALS Vial : 17 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 13:00:35 2024 rpt 1/20
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.477	43687067	732.821	ug/L	E-Over Calibration
2)	Acetylene	0.000	0	N.D.	ug/L	
3)	Ethylene	0.000	0	N.D.	ug/L	
4)	Ethane	2.579	11912	0.220	ug/L	m
5)	Propane	0.000	0	N.D.	ug/L	

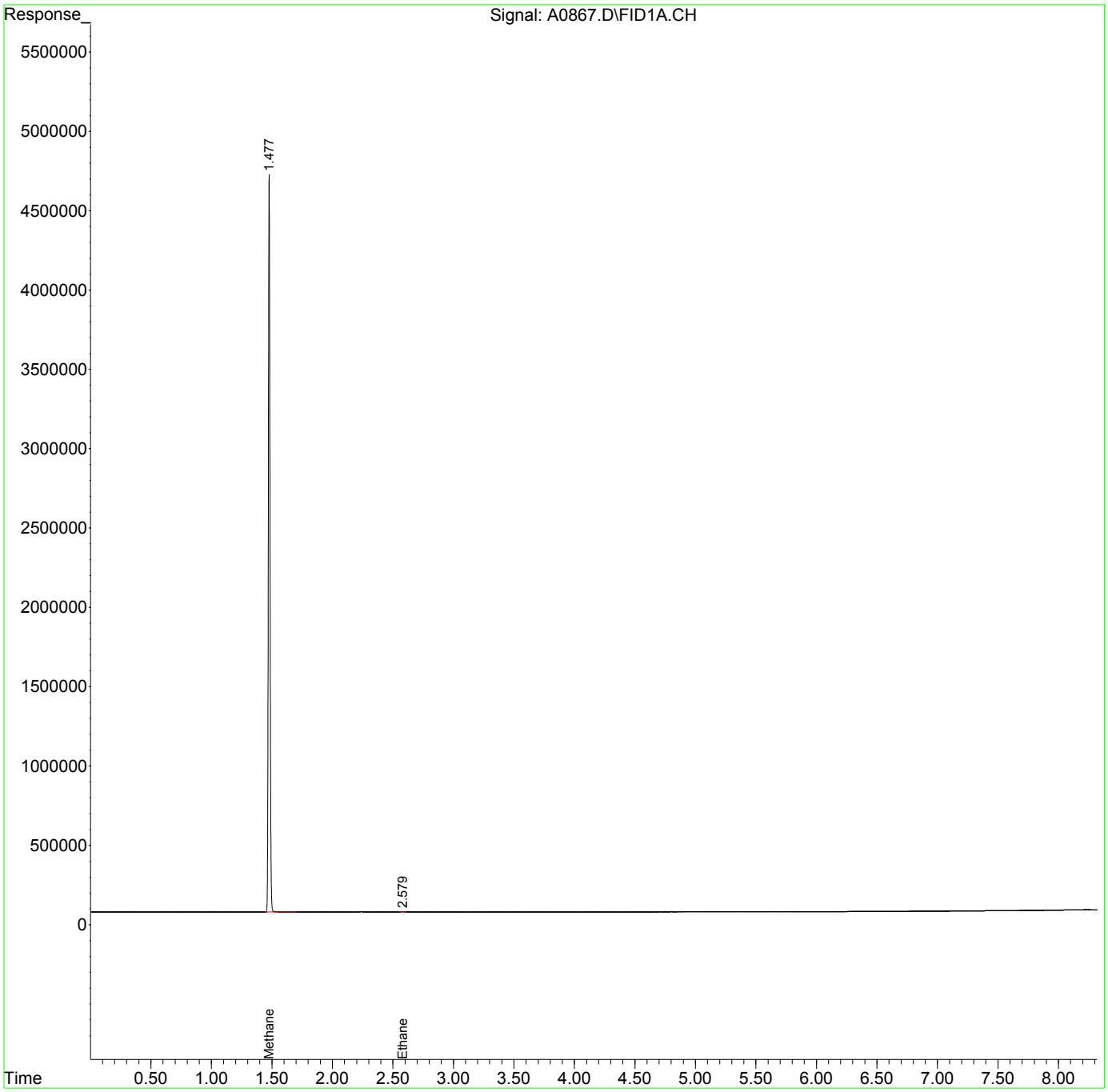
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0867.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 12:49 pm
Operator : F.NAEGLER
Sample : R2408139-012|10.0
Misc : CEC 979 T4
ALS Vial : 17 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 13:00:35 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



1st FJ 09/03/24
2nd AM 09/03/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0868.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 1:02 pm
Operator : F.NAEGLER
Sample : R2408139-012|20.0
Misc : CEC 979 T4
ALS Vial : 18 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 13:12:46 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

DL

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.478	18311696	307.166	ug/L
2)	Acetylene	0.000	0	N.D.	ug/L
3)	Ethylene	0.000	0	N.D.	ug/L
4)	Ethane	0.000	0	N.D.	ug/L
5)	Propane	0.000	0	N.D.	ug/L

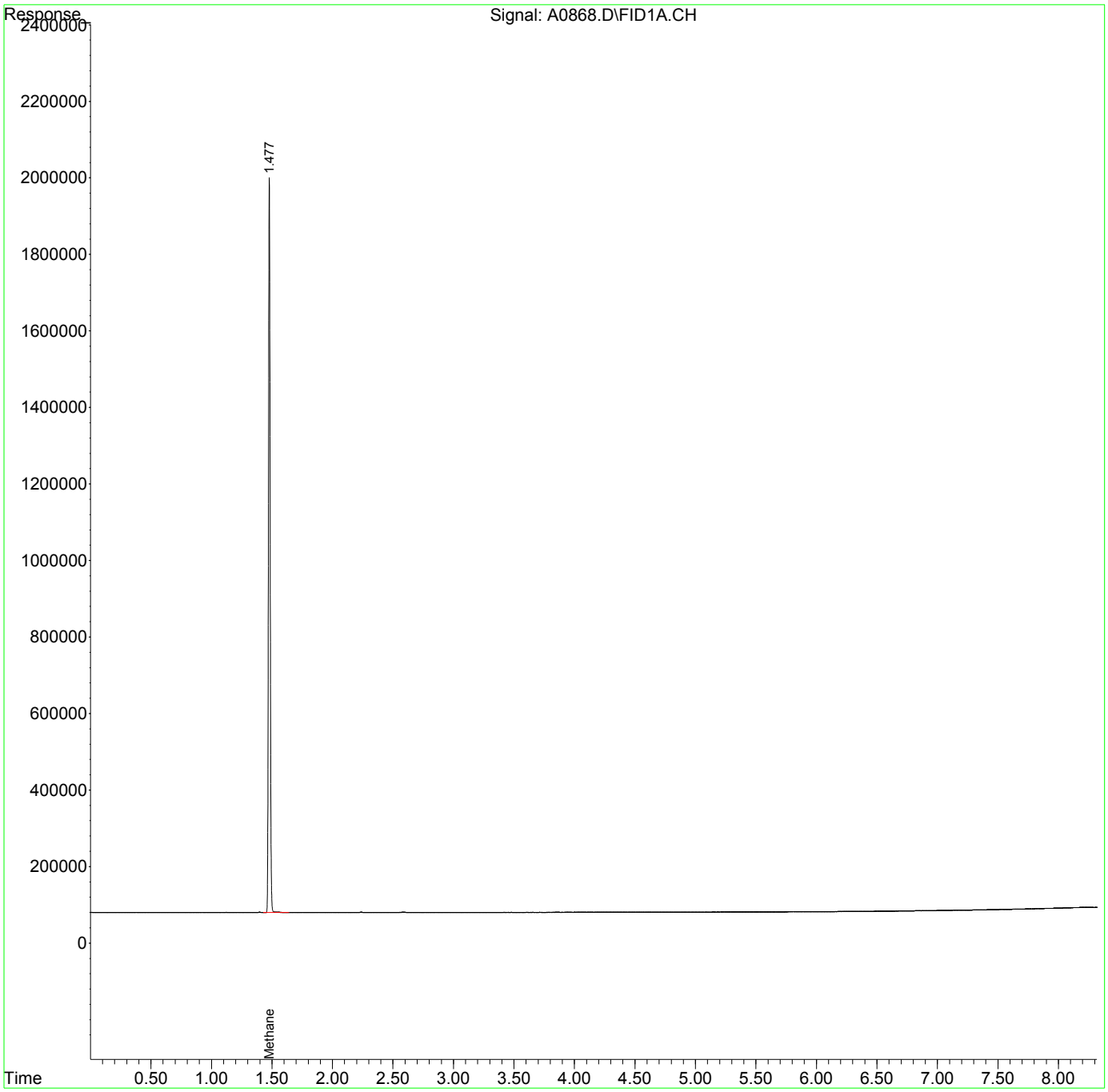
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0868.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 1:02 pm
Operator : F.NAEGLER
Sample : R2408139-012|20.0
Misc : CEC 979 T4
ALS Vial : 18 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 13:12:46 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



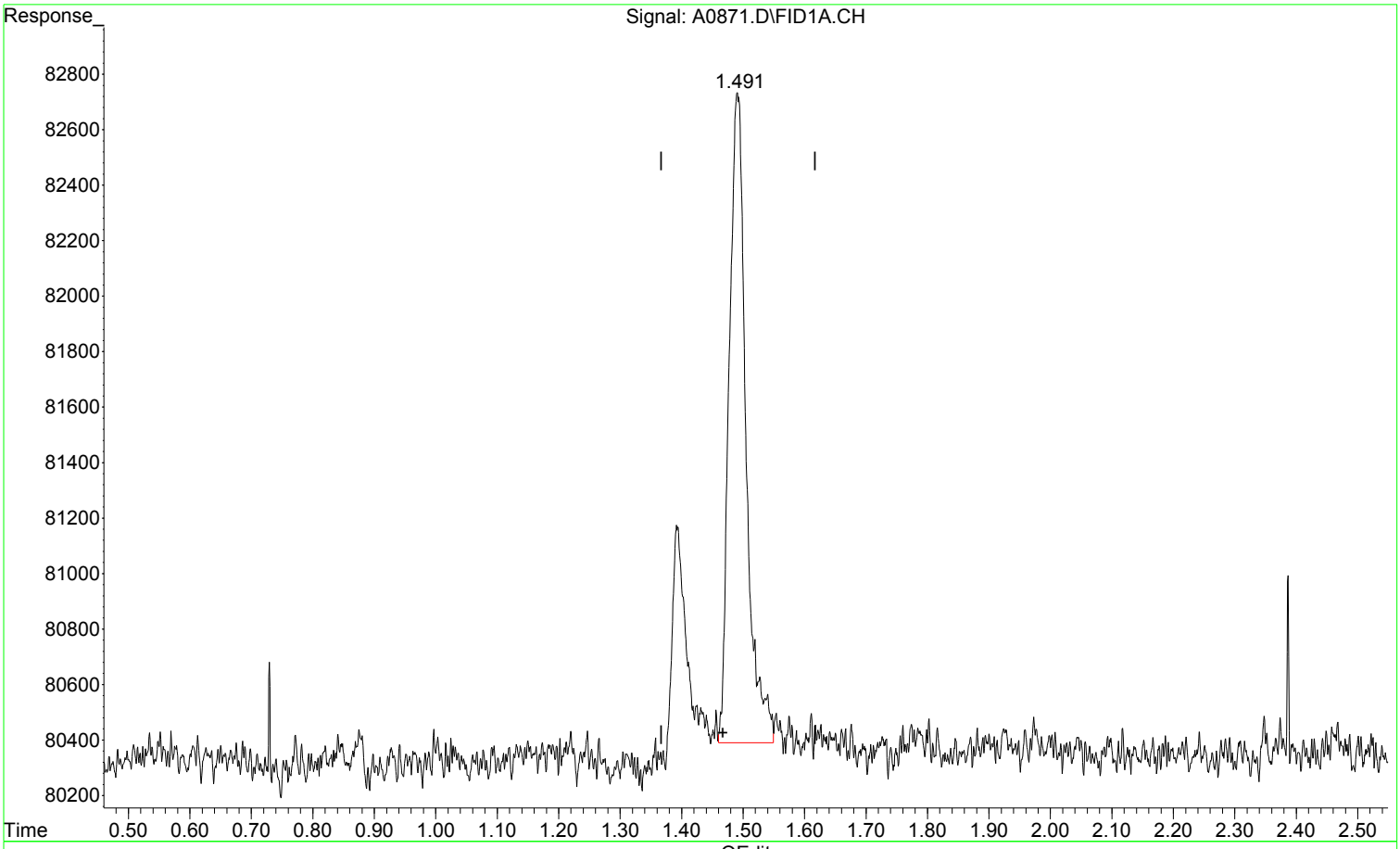
1st FJ 09/03/24
2nd AM 09/03/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0871.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 1:41 pm
Operator : F.NAEGLER
Sample : R2408139-013
Misc : CEC 979 T4
ALS Vial : 21 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 13:50:25 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.490min 0.750 ug/L m

response 44726

Manual Integration:

After

Peak not found.

09/02/24

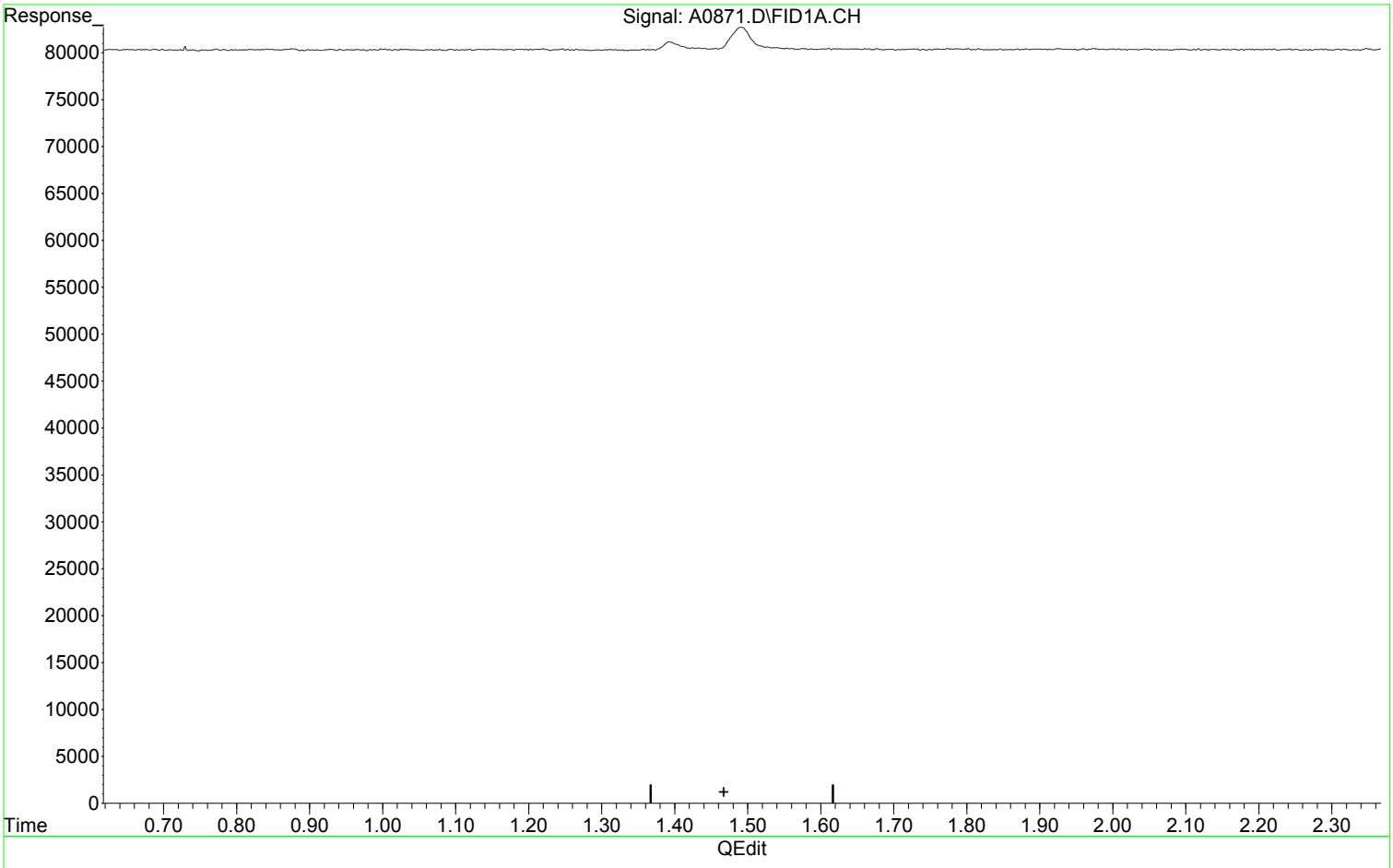
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0871.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 1:41 pm
Operator : F.NAEGLER
Sample : R2408139-013
Misc : CEC 979 T4
ALS Vial : 21 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 13:50:25 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.467min 0.000 ug/L

response 0

Manual Integration:

Before

09/02/24

(+) = Expected Retention Time

1st FJ 09/03/24
2nd AM 09/03/24

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0871.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 1:41 pm
Operator : F.NAEGLER
Sample : R2408139-013
Misc : CEC 979 T4
ALS Vial : 21 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 13:50:25 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.490	44726	0.750	ug/L	m
2)	Acetylene	0.000	0	N.D.	ug/L	
3)	Ethylene	0.000	0	N.D.	ug/L	
4)	Ethane	0.000	0	N.D.	ug/L	
5)	Propane	0.000	0	N.D.	ug/L	

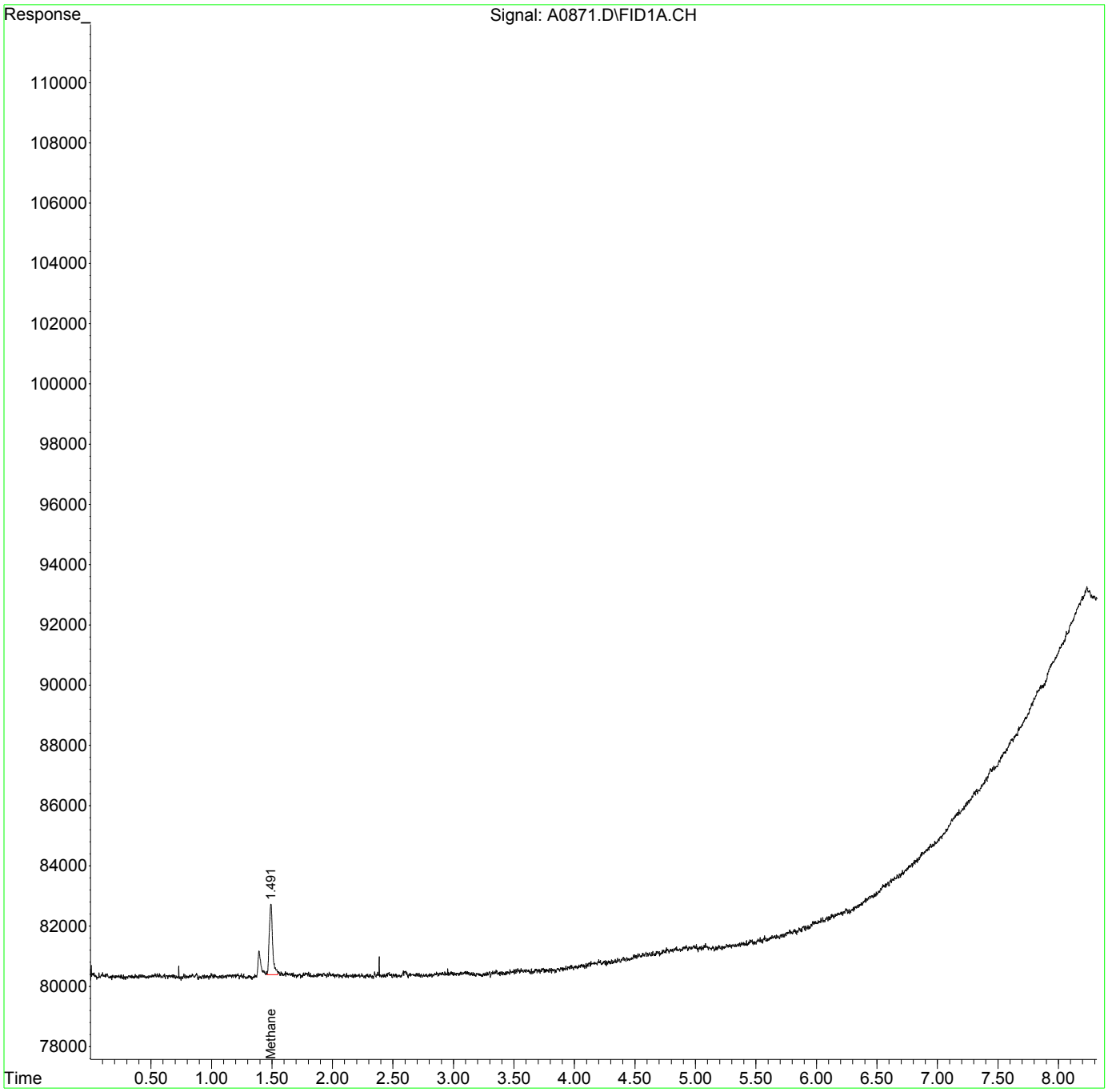
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0871.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 1:41 pm
Operator : F.NAEGLER
Sample : R2408139-013
Misc : CEC 979 T4
ALS Vial : 21 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 13:50:25 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

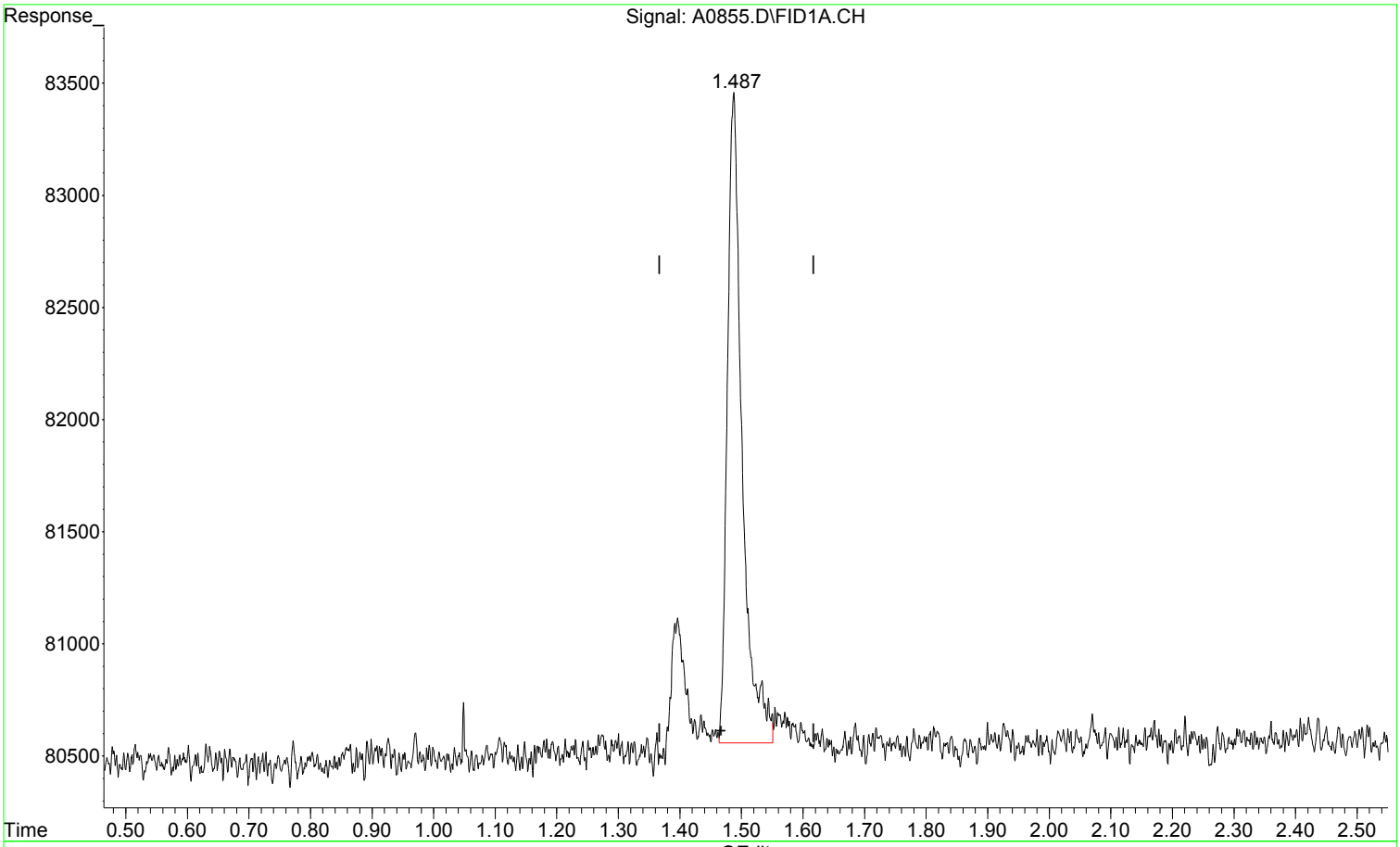


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0855.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 10:09 am
Operator : F.NAEGLER
Sample : MBLK
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 10:18:14 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.487min 0.805 ug/L m

response 48018

Manual Integration:

After

Peak not found.

09/02/24

(+) = Expected Retention Time

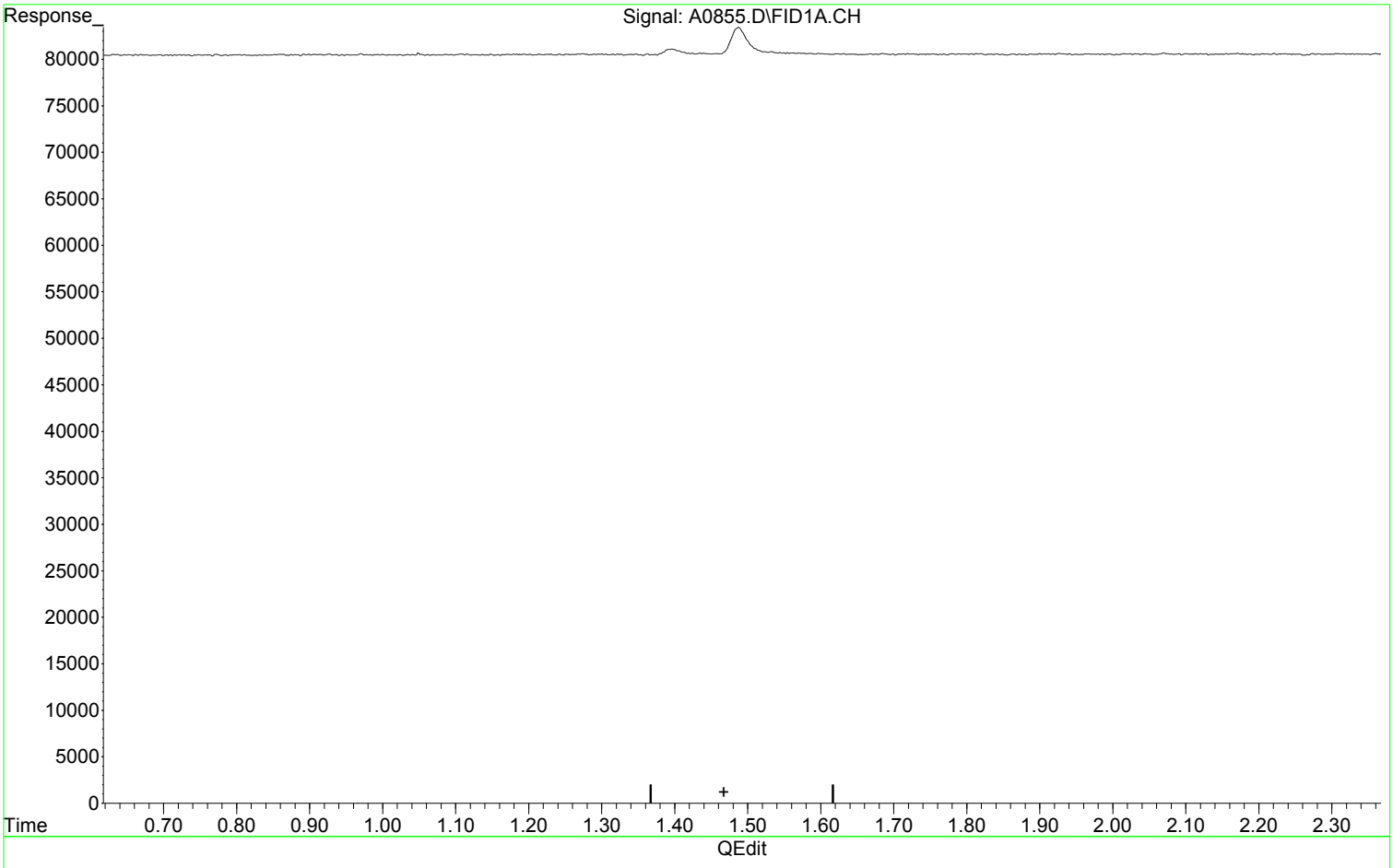
1st FJ 09/03/24
2nd AM 09/03/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0855.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 10:09 am
Operator : F.NAEGLER
Sample : MBLK
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 10:18:14 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.467min 0.000 ug/L

response 0

Manual Integration:

Before

09/02/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0855.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 10:09 am
Operator : F.NAEGLER
Sample : MBLK
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 10:18:14 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.487	48018	0.805	ug/L	m
2)	Acetylene	0.000	0	N.D.	ug/L	
3)	Ethylene	0.000	0	N.D.	ug/L	
4)	Ethane	0.000	0	N.D.	ug/L	
5)	Propane	0.000	0	N.D.	ug/L	

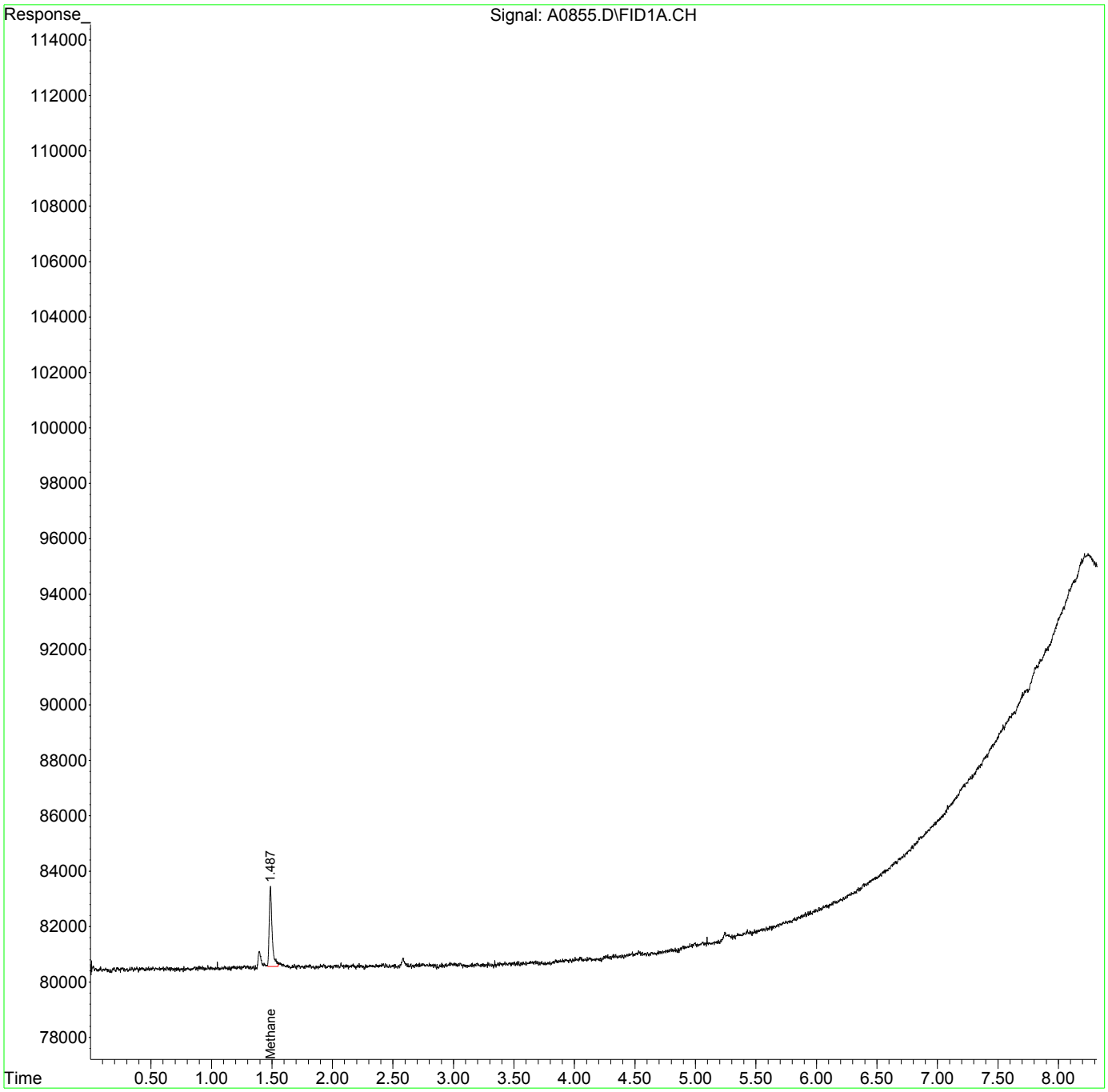
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0855.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 10:09 am
Operator : F.NAEGLER
Sample : MBLK
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 10:18:14 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0856.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 10:21 am
Operator : F.NAEGLER
Sample : LCS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 10:32:08 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.478	8022971	134.580 ug/L
2)	Acetylene	2.236	6494531	278.685 ug/L
3)	Ethylene	2.431	5108880	123.556 ug/L
4)	Ethane	2.578	7978471	147.466 ug/L
5)	Propane	5.247	8198910	142.592 ug/L

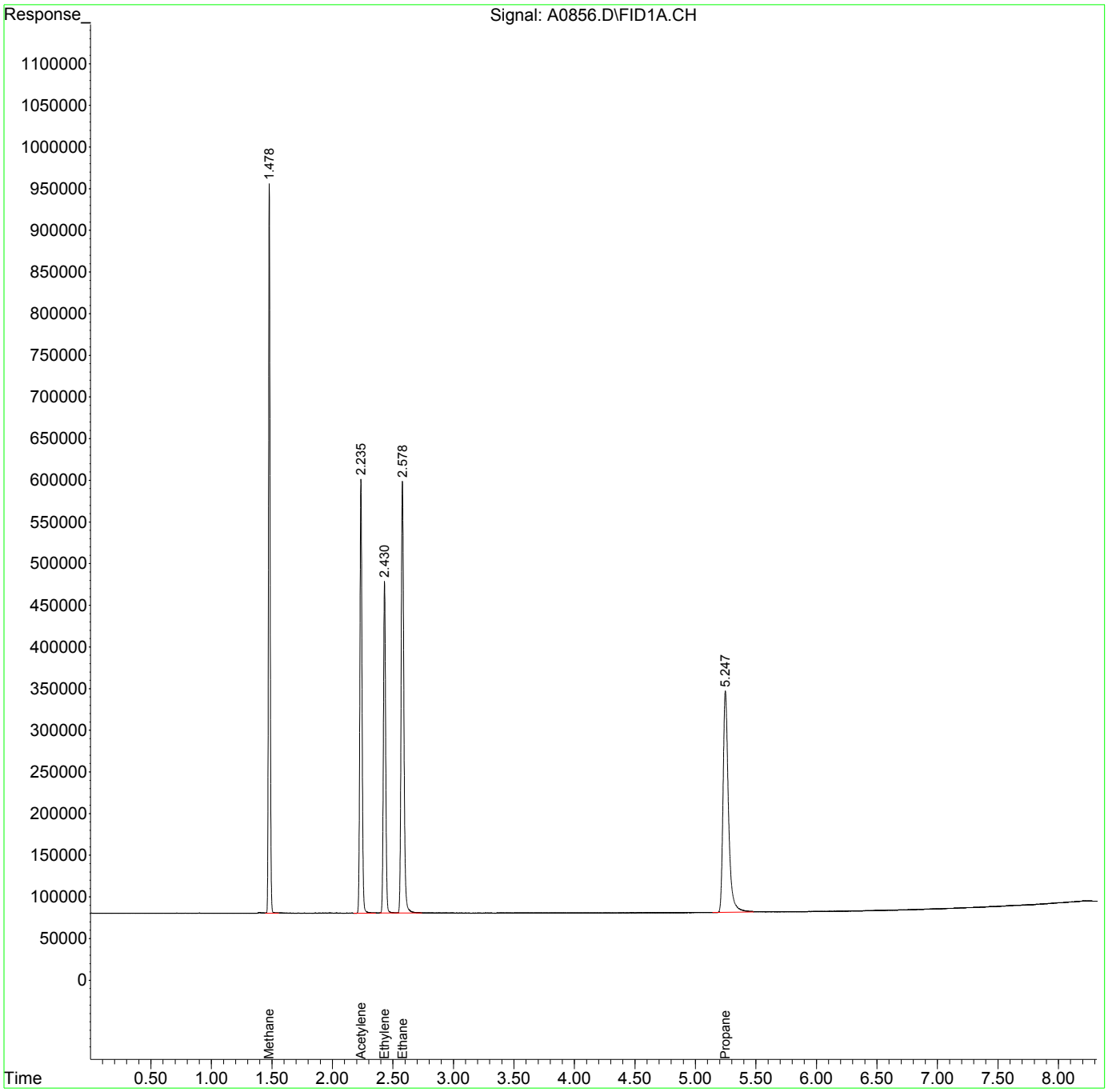
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0856.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 10:21 am
Operator : F.NAEGLER
Sample : LCS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 10:32:08 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0864.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 12:12 pm
Operator : F.NAEGLER
Sample : R2408139-008MS
Misc : CEC 979 T4
ALS Vial : 14 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 12:22:45 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.474	12851624	215.577 ug/L
2)	Acetylene	2.232	10160351	435.988 ug/L
3)	Ethylene	2.427	9123947	220.659 ug/L
4)	Ethane	2.575	12175425	225.038 ug/L
5)	Propane	5.245	12434003	216.248 ug/L

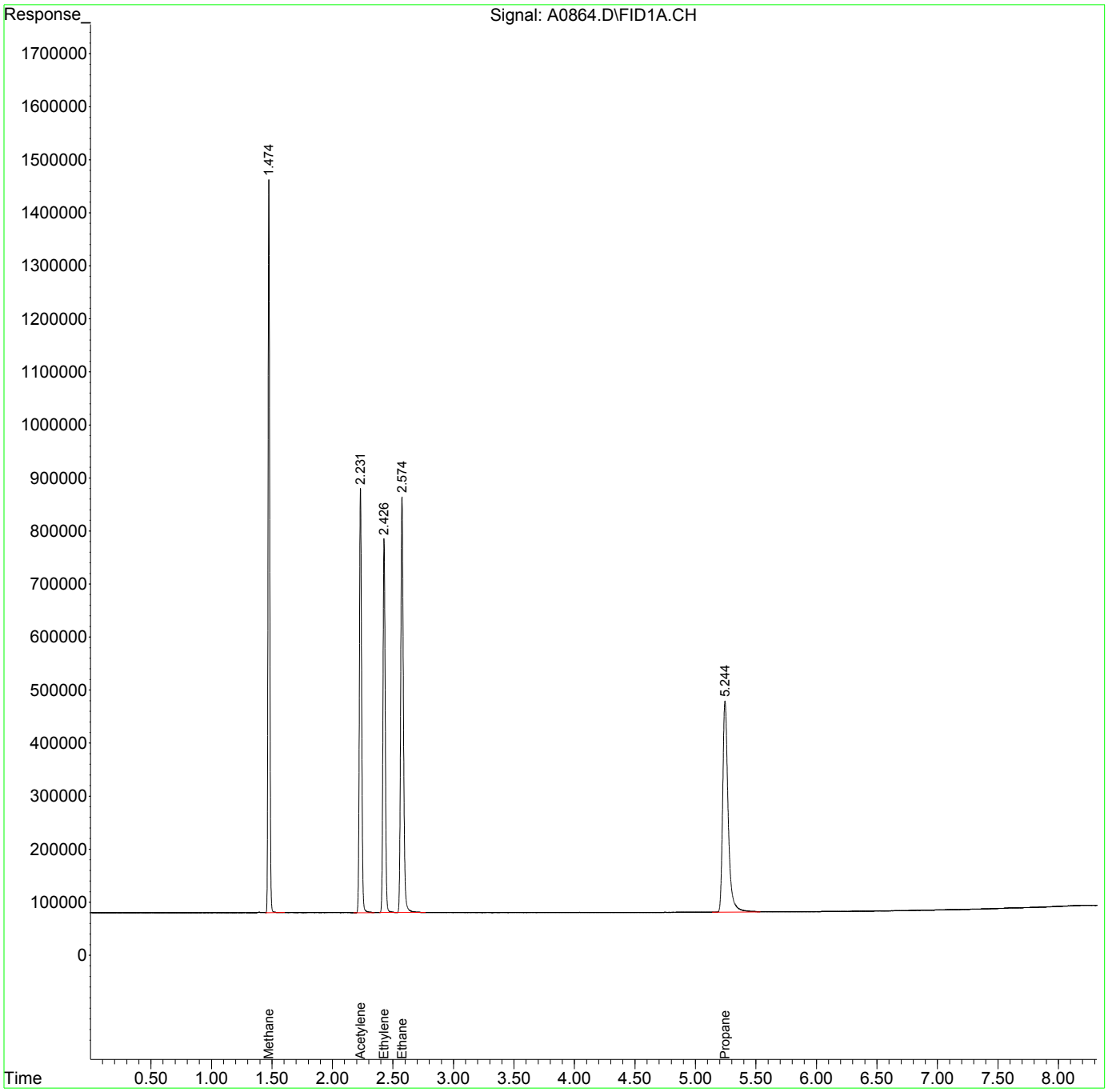
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0864.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 12:12 pm
Operator : F.NAEGLER
Sample : R2408139-008MS
Misc : CEC 979 T4
ALS Vial : 14 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 12:22:45 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0865.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 12:24 pm
Operator : F.NAEGLER
Sample : R2408139-008DMS
Misc : CEC 979 T4
ALS Vial : 15 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 12:33:21 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.476	12960028	217.396 ug/L
2)	Acetylene	2.233	10291441	441.613 ug/L
3)	Ethylene	2.429	9256587	223.867 ug/L
4)	Ethane	2.576	12307577	227.481 ug/L
5)	Propane	5.245	12582367	218.828 ug/L

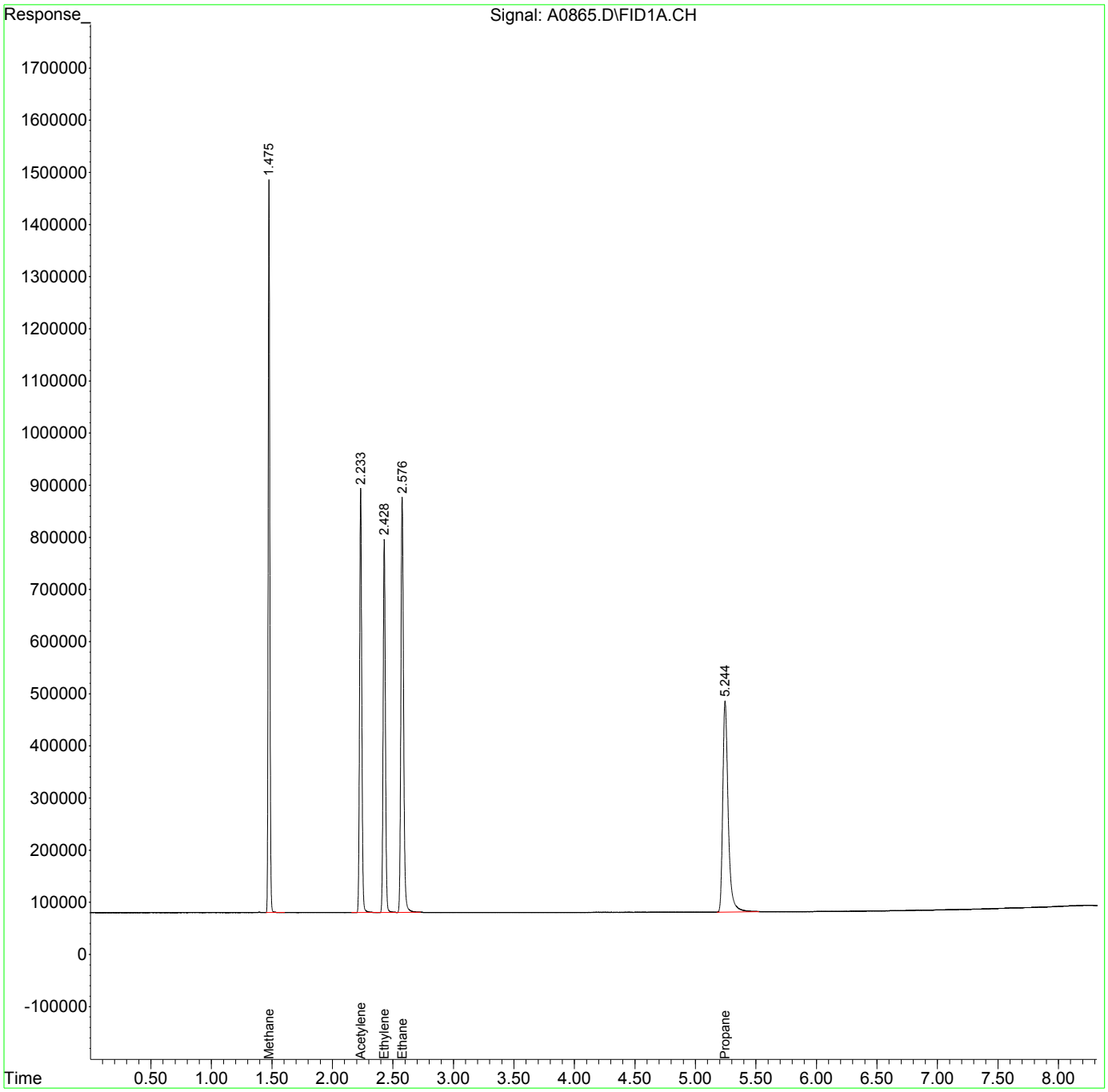
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0865.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 12:24 pm
Operator : F.NAEGLER
Sample : R2408139-008DMS
Misc : CEC 979 T4
ALS Vial : 15 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 12:33:21 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0854.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 9:57 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 10:07:45 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Methane	262.300	233.720	10.9	100	0.01
2	Acetylene	500.600	480.967	3.9	95	0.01
3	Ethylene	242.800	228.247	6.0	89	0.01
4	Ethane	260.300	253.627	2.6	98	0.01
5	Propane	254.500	246.773	3.0	96	0.02

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0854.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 9:57 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 10:07:45 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.477	13933210	233.720 ug/L
2)	Acetylene	2.236	11208551	480.967 ug/L
3)	Ethylene	2.431	9437679	228.247 ug/L
4)	Ethane	2.579	13722208	253.627 ug/L
5)	Propane	5.249	14189176	246.773 ug/L

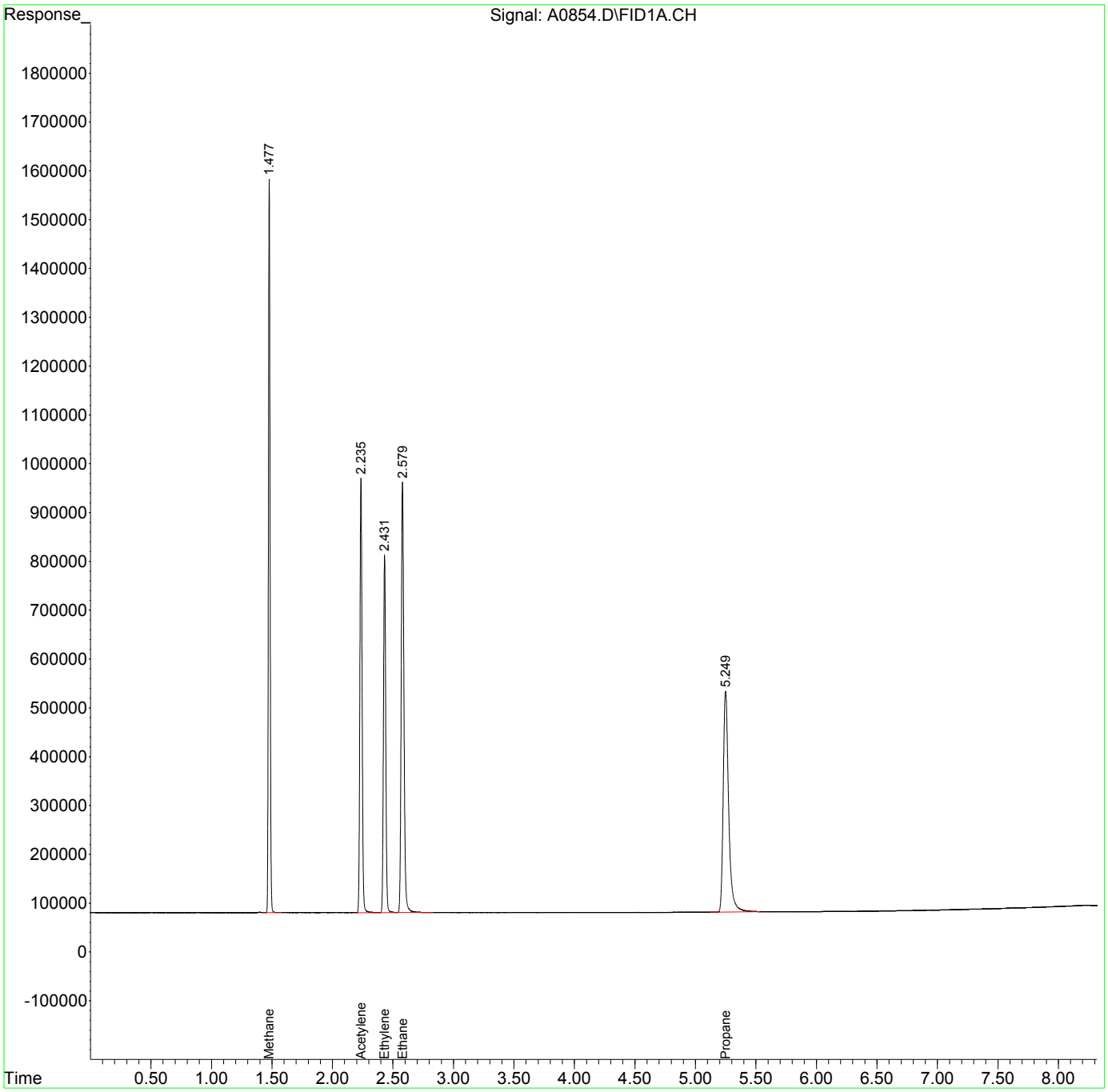
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0854.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 9:57 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 10:07:45 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0870.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 1:27 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 13:39:37 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Methane	262.300	234.106	10.7	100	0.00
2	Acetylene	500.600	486.954	2.7	96	0.00
3	Ethylene	242.800	238.167	1.9	93	0.00
4	Ethane	260.300	254.904	2.1	98	0.00
5	Propane	254.500	249.304	2.0	97	0.01

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0870.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 1:27 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 13:39:37 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.474	13956230	234.106 ug/L
2)	Acetylene	2.232	11348069	486.954 ug/L
3)	Ethylene	2.427	9847877	238.167 ug/L
4)	Ethane	2.575	13791303	254.904 ug/L
5)	Propane	5.245	14334738	249.304 ug/L

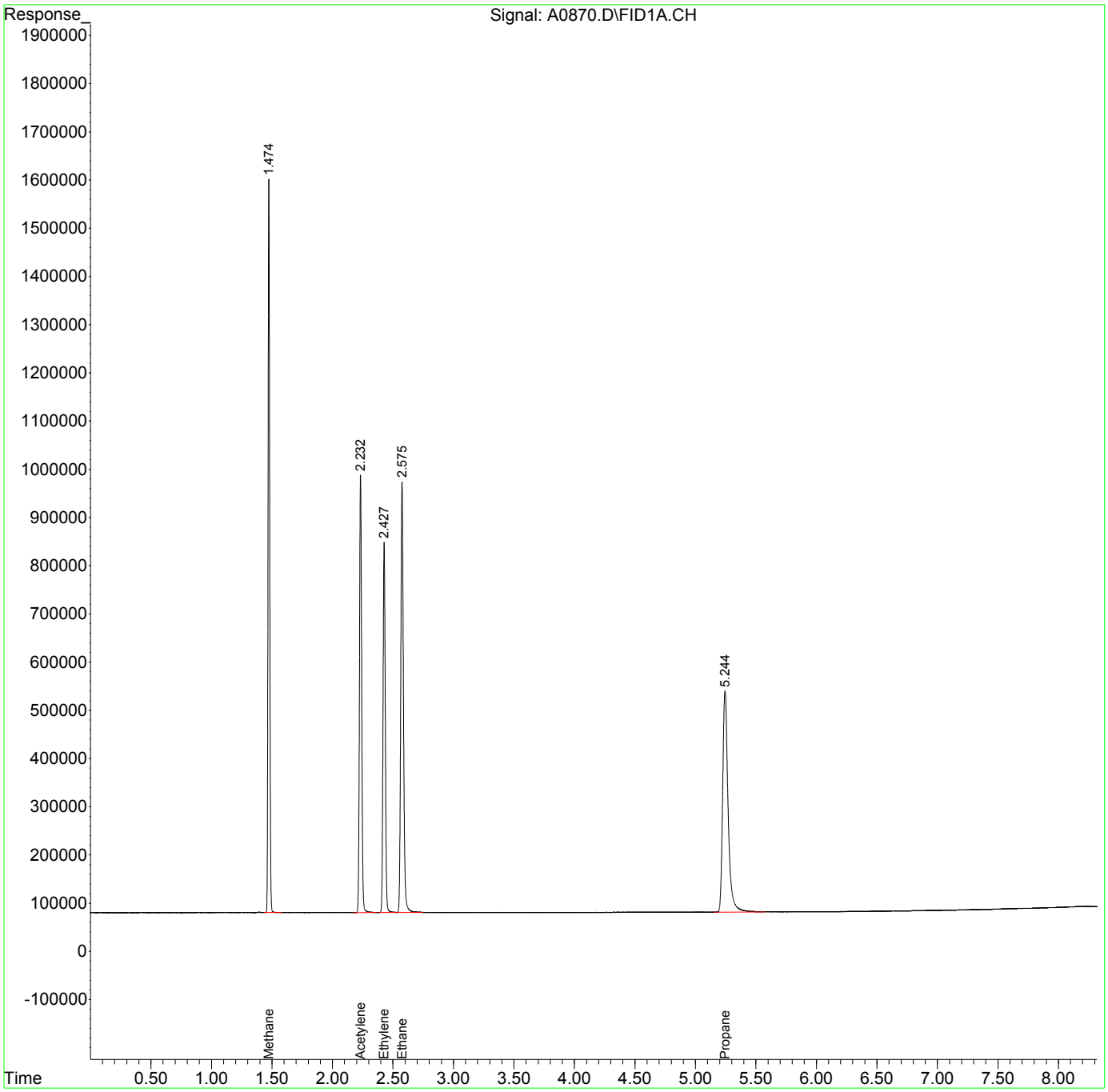
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0870.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 1:27 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 13:39:37 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0878.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 3:09 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 15:18:48 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Methane	262.300	239.977	8.5	102	0.00
2	Acetylene	500.600	499.731	0.2	99	0.00
3	Ethylene	242.800	247.655	-2.0	96	0.00
4	Ethane	260.300	261.405	-0.4	101	0.00
5	Propane	254.500	253.503	0.4	99	0.01

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0878.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 3:09 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 15:18:48 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.474	14306218	239.977 ug/L
2)	Acetylene	2.231	11645826	499.731 ug/L
3)	Ethylene	2.426	10240175	247.655 ug/L
4)	Ethane	2.574	14143031	261.405 ug/L
5)	Propane	5.244	14576154	253.503 ug/L

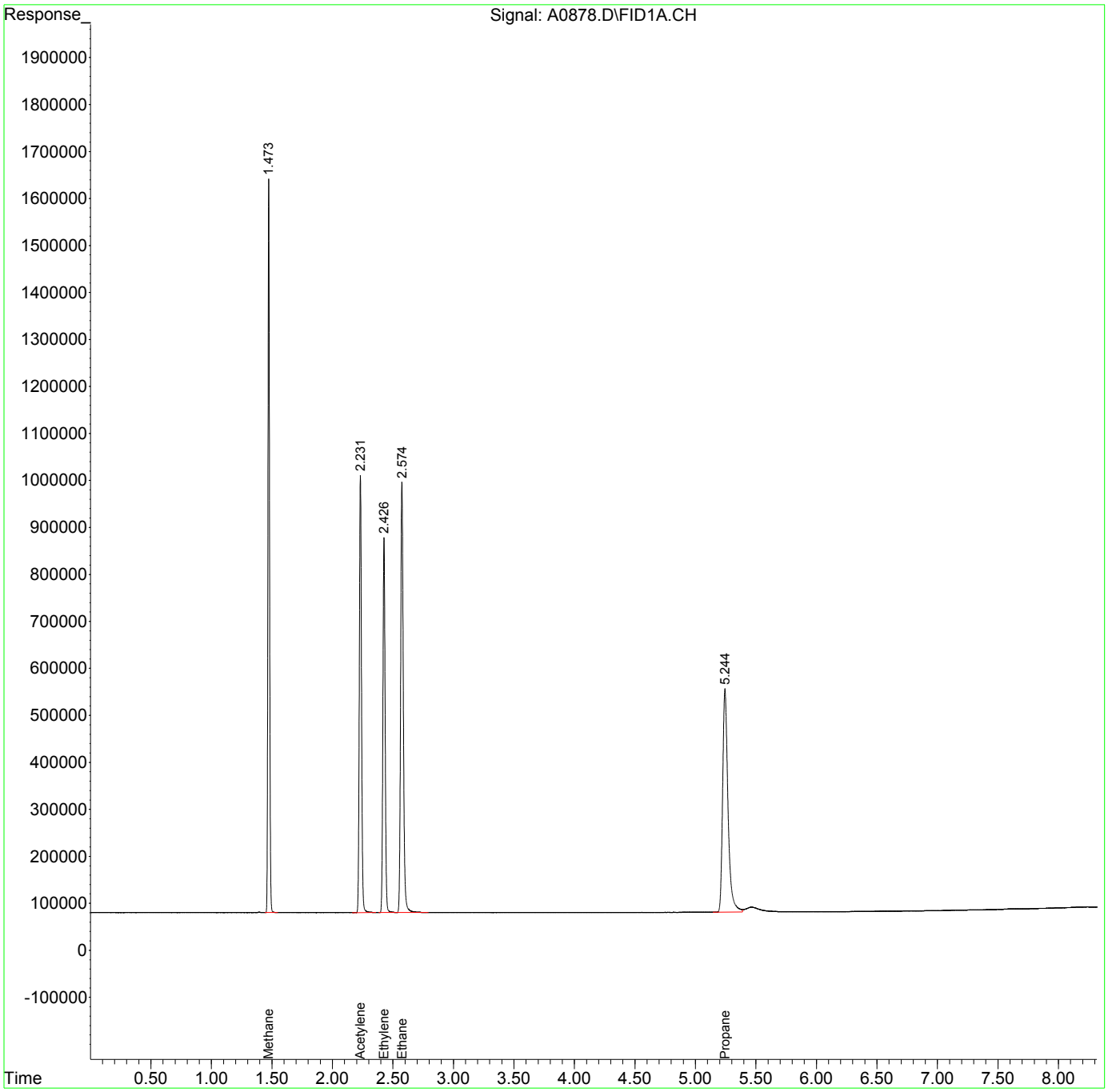
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0878.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 3:09 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 15:18:48 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



1st FJ 05/02/24
2nd AM 05/03/24

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0499.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 4:17 pm
Operator : F.NAEGLER
Sample : 250 PPB ICV
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:27:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.468	14308021	240.007 ug/L
2)	Acetylene	2.223	12099466	519.197 ug/L
3)	Ethylene	2.418	10483009	253.528 ug/L
4)	Ethane	2.566	14471962	267.485 ug/L
5)	Propane	5.234	15066997	262.040 ug/L

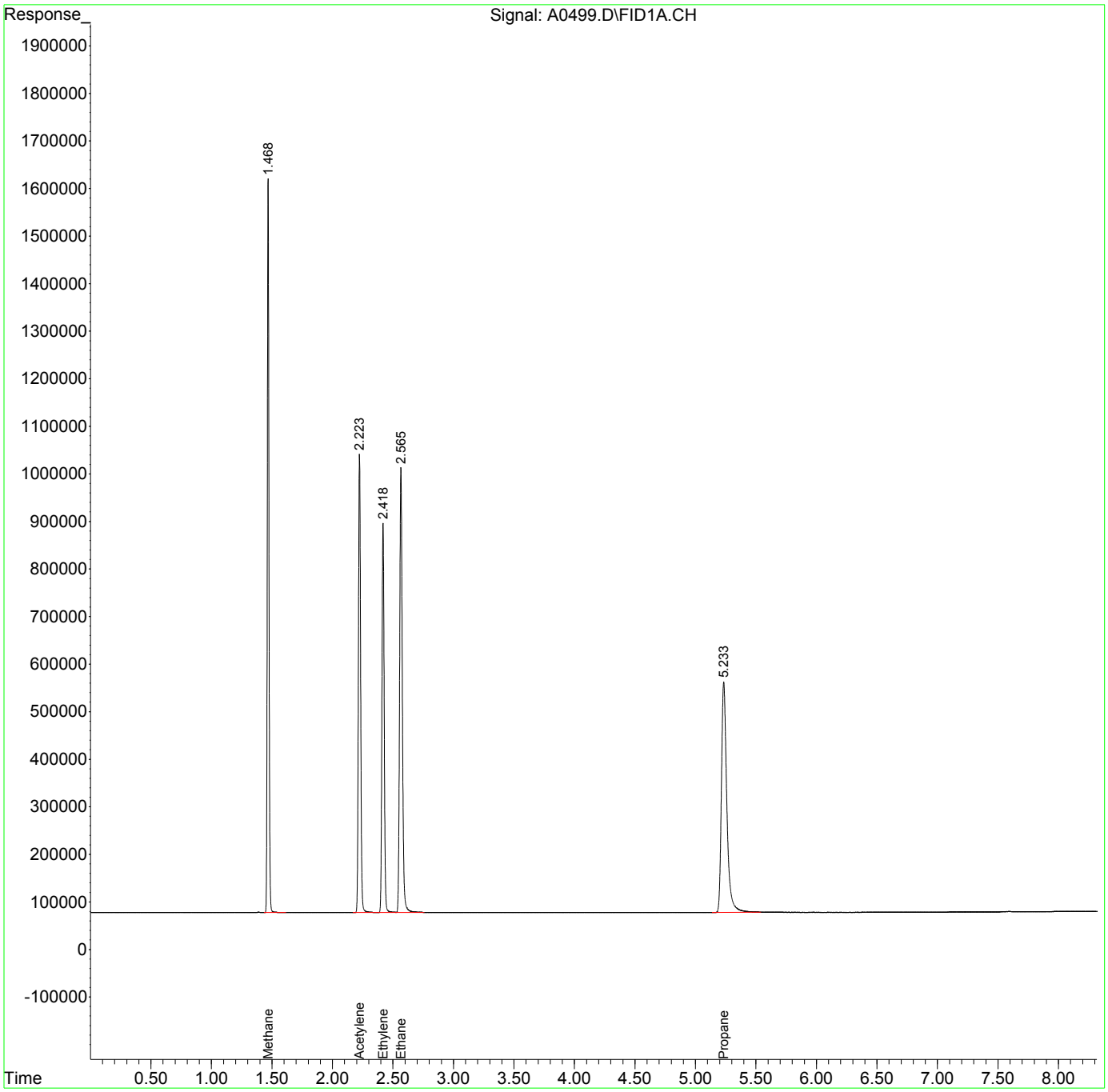
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0499.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 4:17 pm
Operator : F.NAEGLER
Sample : 250 PPB ICV
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:27:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

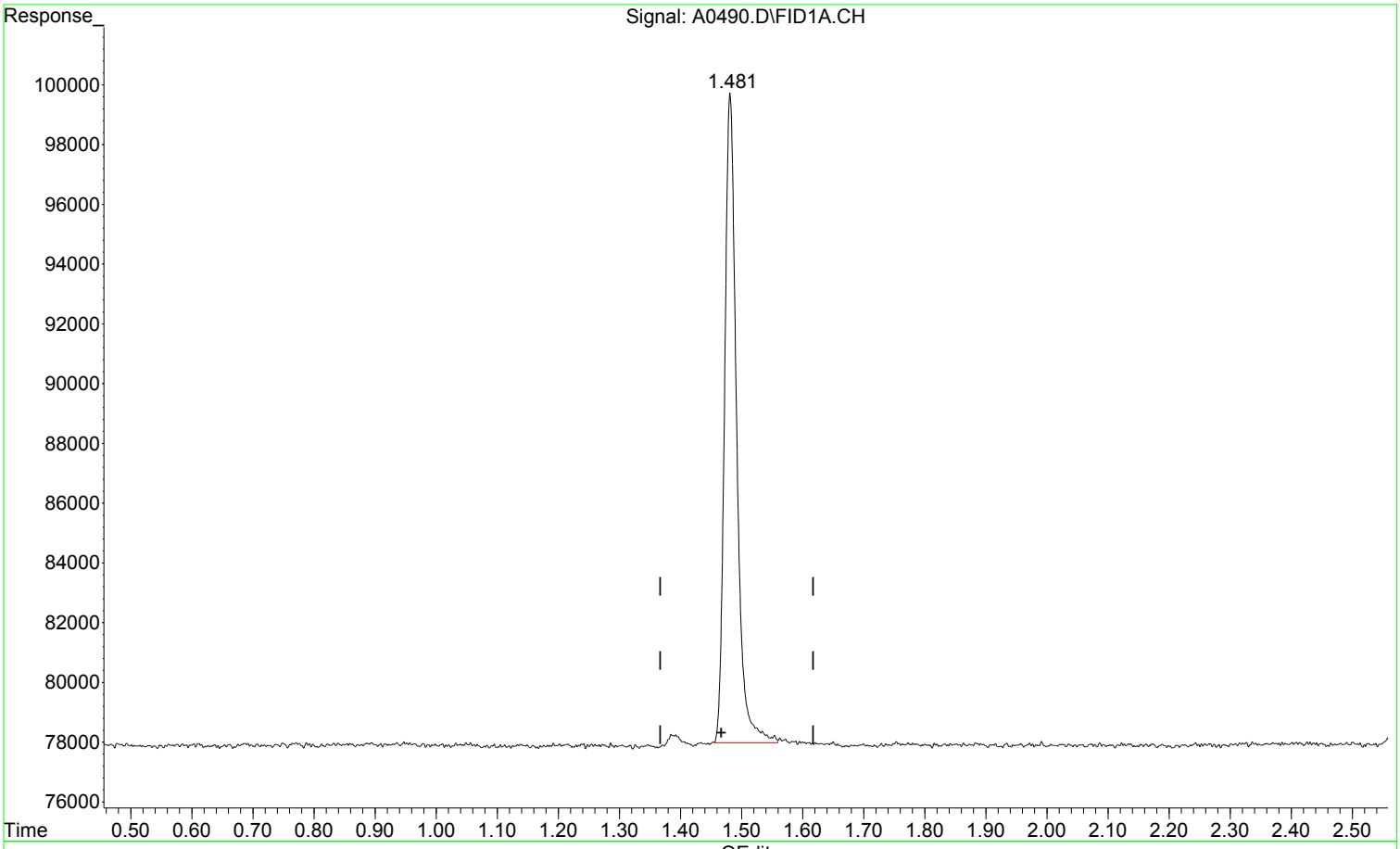


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.481min 4.971 ug/L m

response 296341

Manual Integration:

After

Peak not found.

05/02/24

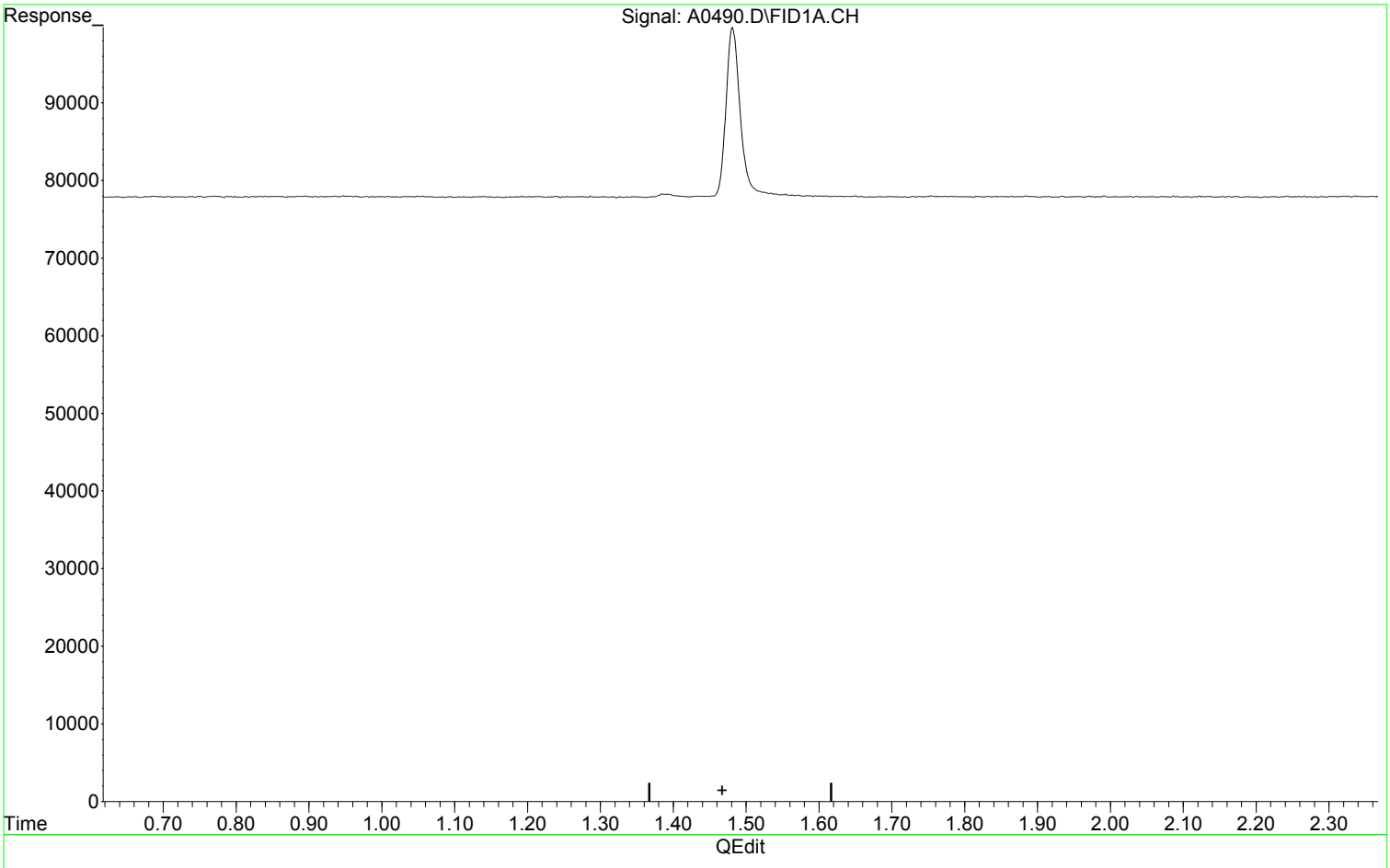
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.467min 0.000 ug/L

response 0

Manual Integration:

Before

05/02/24

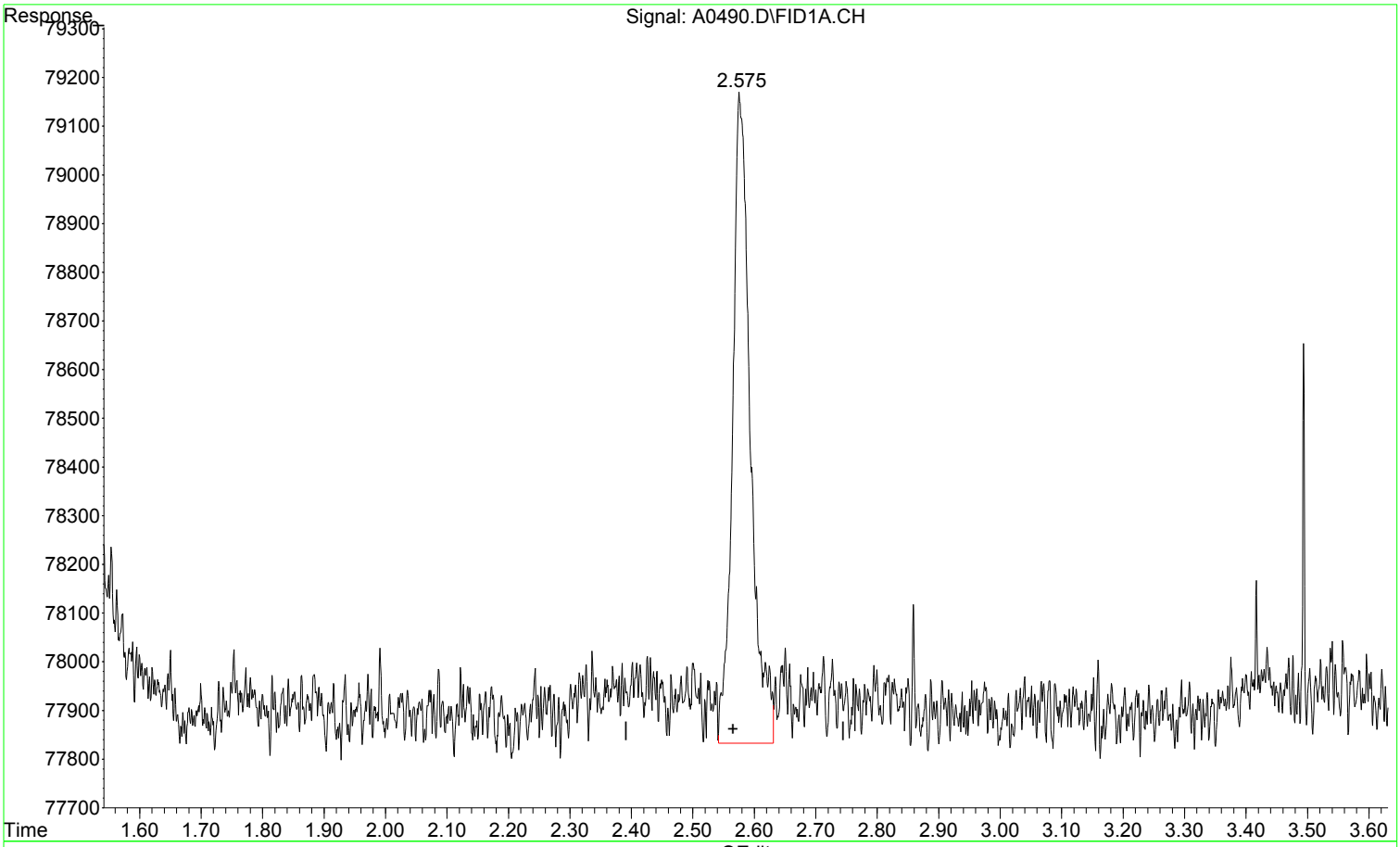
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane

2.575min 0.496 ug/L m

response 26859

Manual Integration:

After

Peak not found.

05/02/24

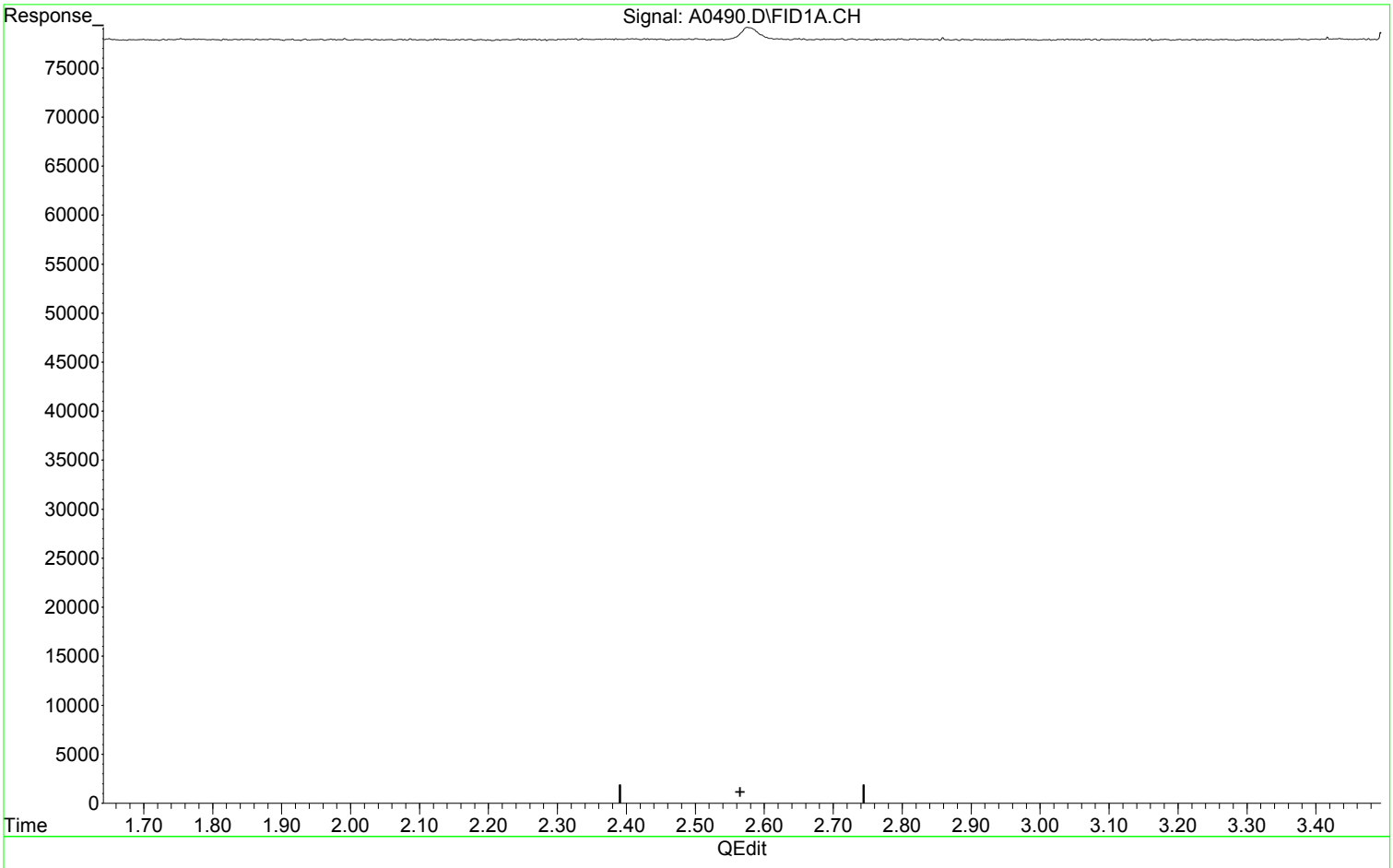
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.565min 0.000 ug/L
response 0

Manual Integration:
Before

05/02/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.481	296341	4.971 ug/L m
2)	Acetylene	0.000	0	N.D. ug/L
3)	Ethylene	0.000	0	N.D. ug/L
4)	Ethane	2.575	26859	0.496 ug/L m
5)	Propane	0.000	0	N.D. ug/L

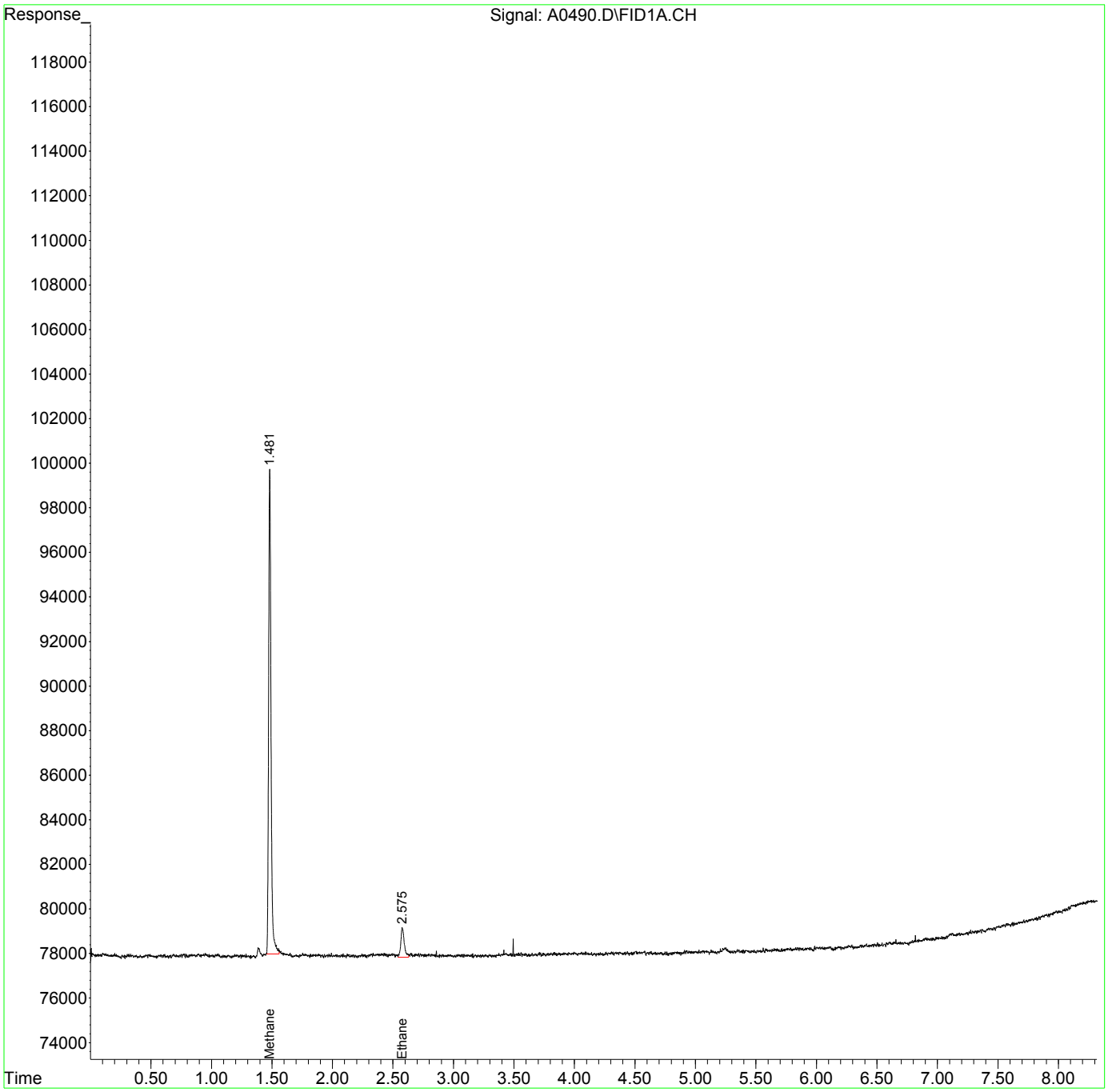
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

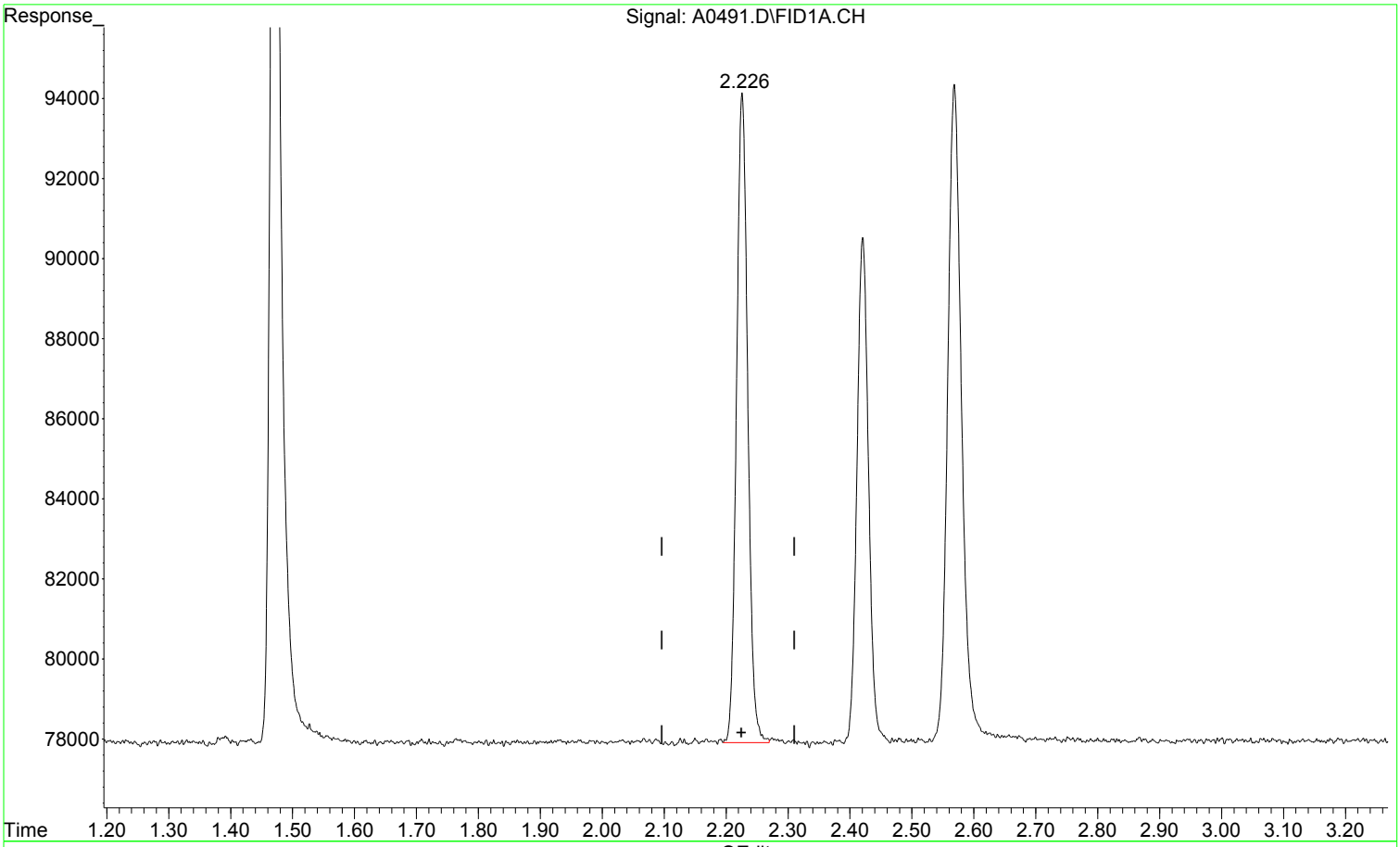


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(2) Acetylene
2.226min 8.893 ug/L m
response 204234

Manual Integration:
After
Peak not found.
05/02/24

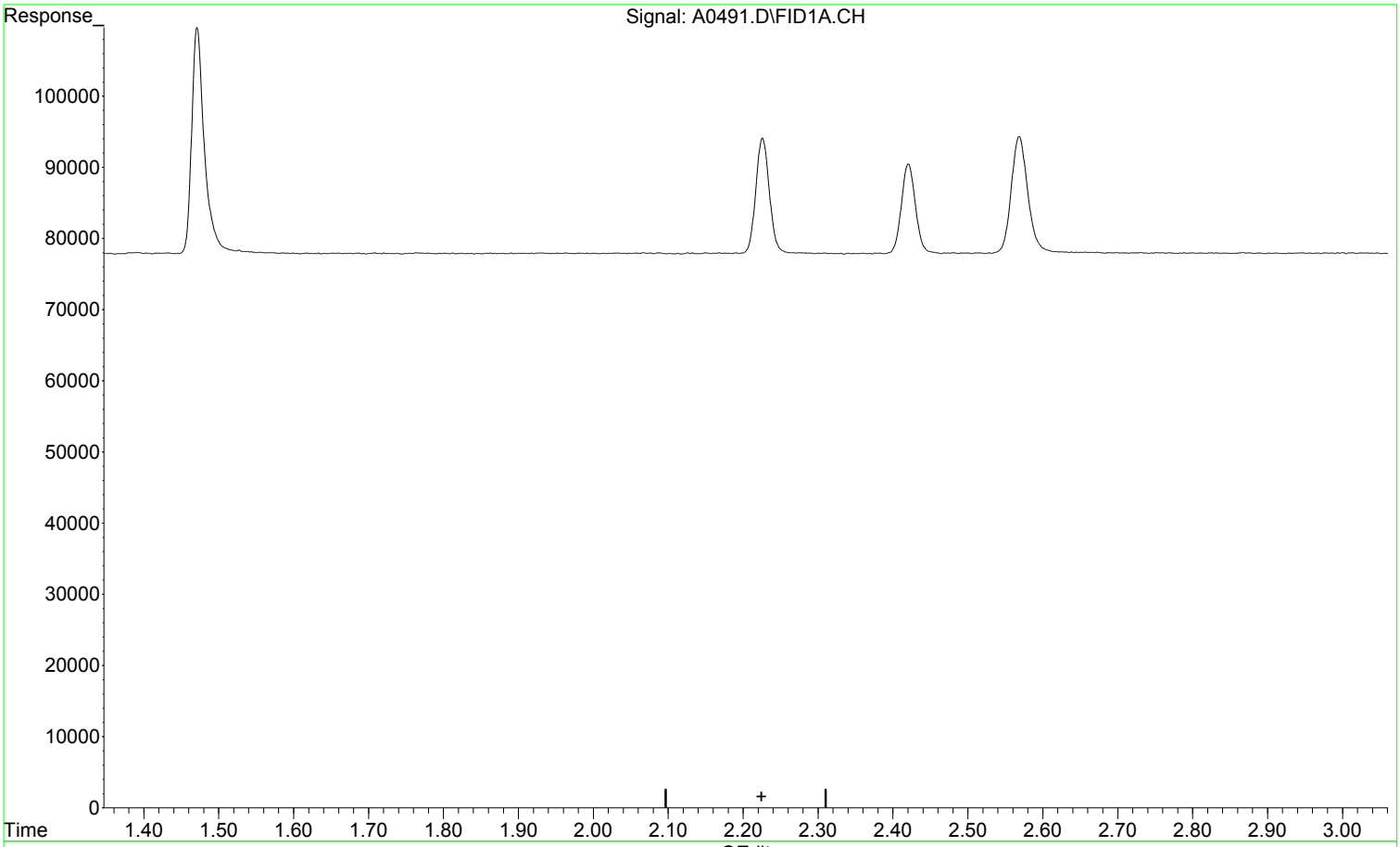
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(2) Acetylene
2.225min 0.000 ug/L
response 0

Manual Integration:
Before

05/02/24

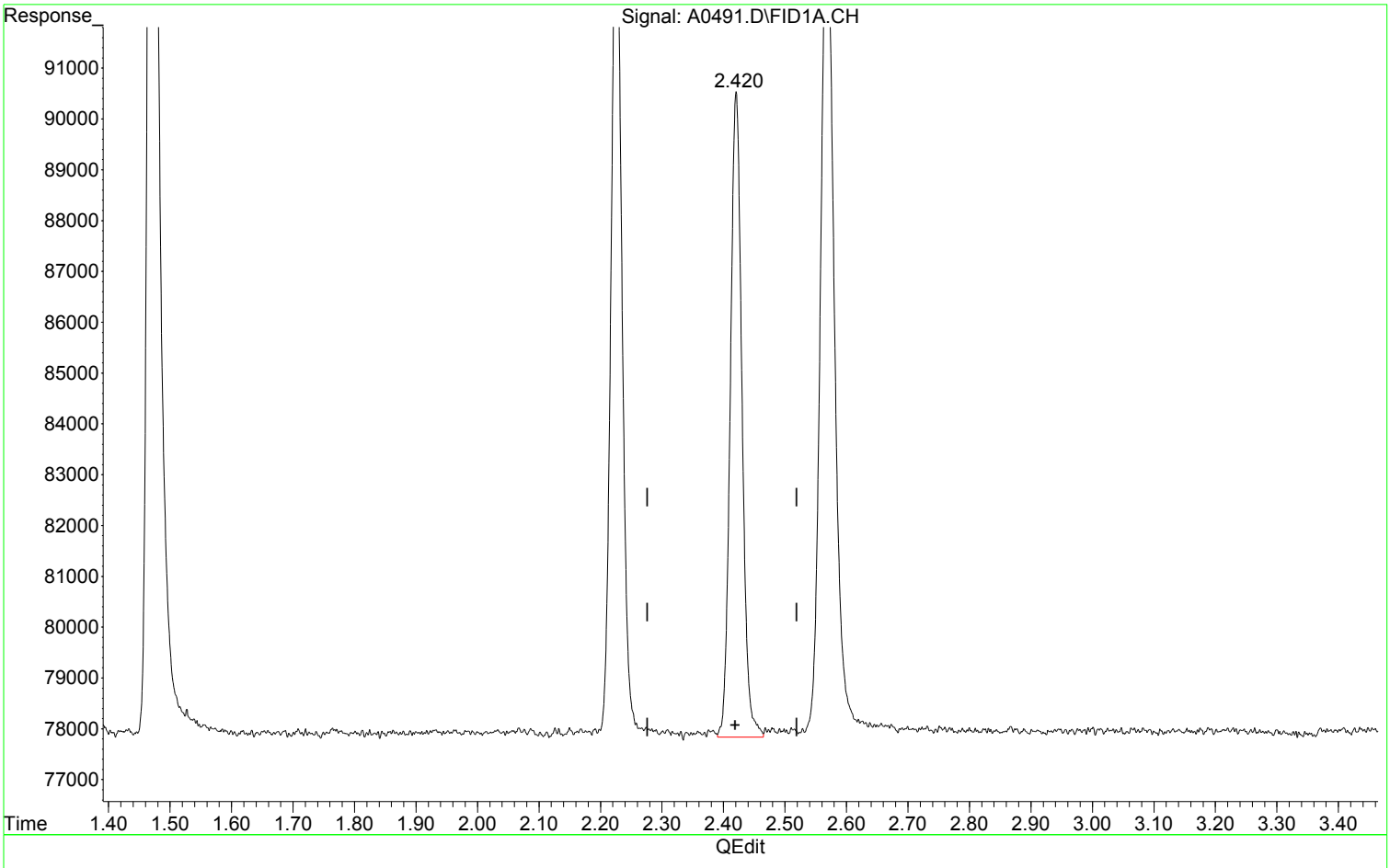
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(3) Ethylene
2.420min 4.203 ug/L m
response 167239

Manual Integration:
After
Peak not found.
05/02/24

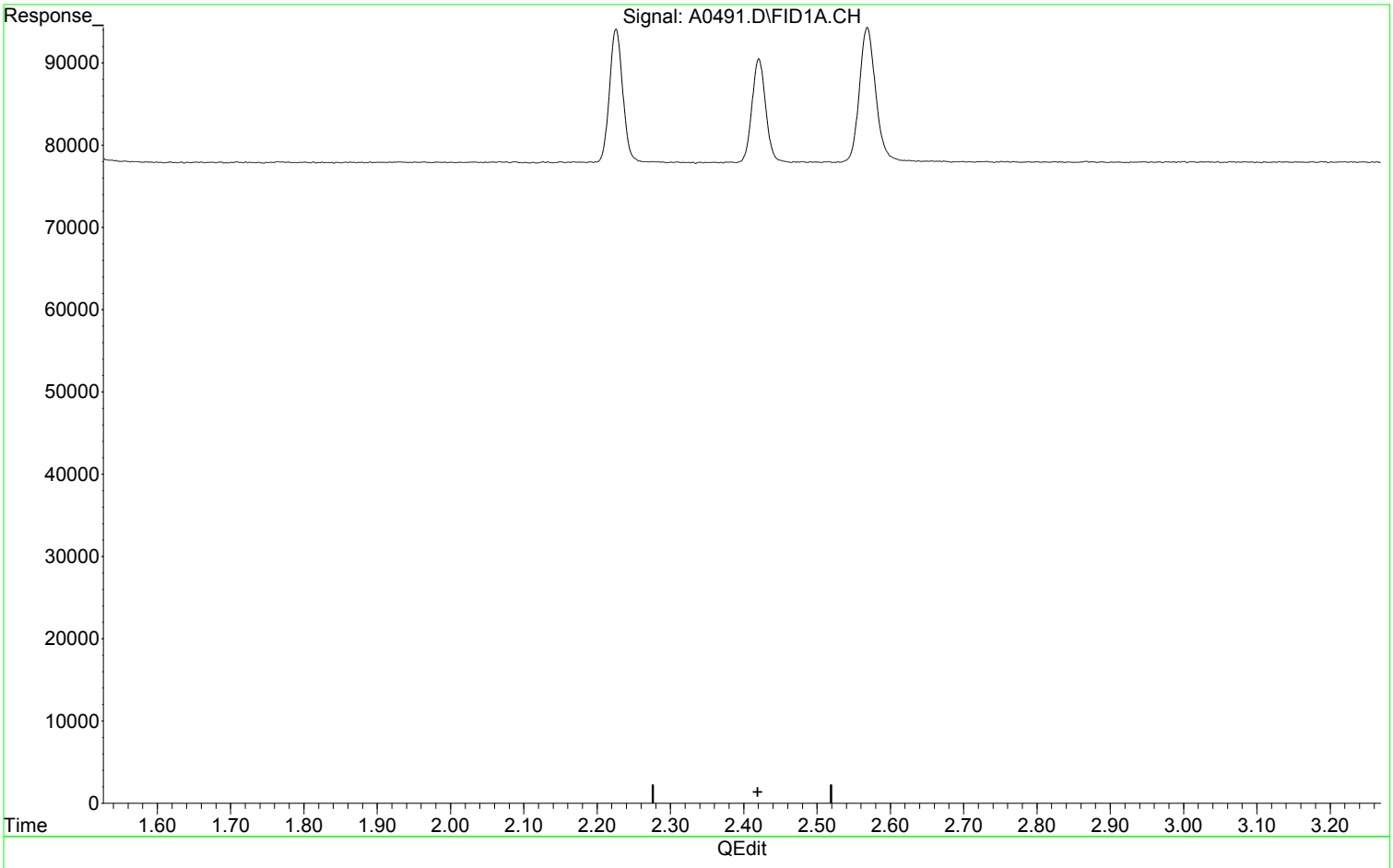
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(3) Ethylene
2.419min 0.000 ug/L
response 0

Manual Integration:
Before

05/02/24

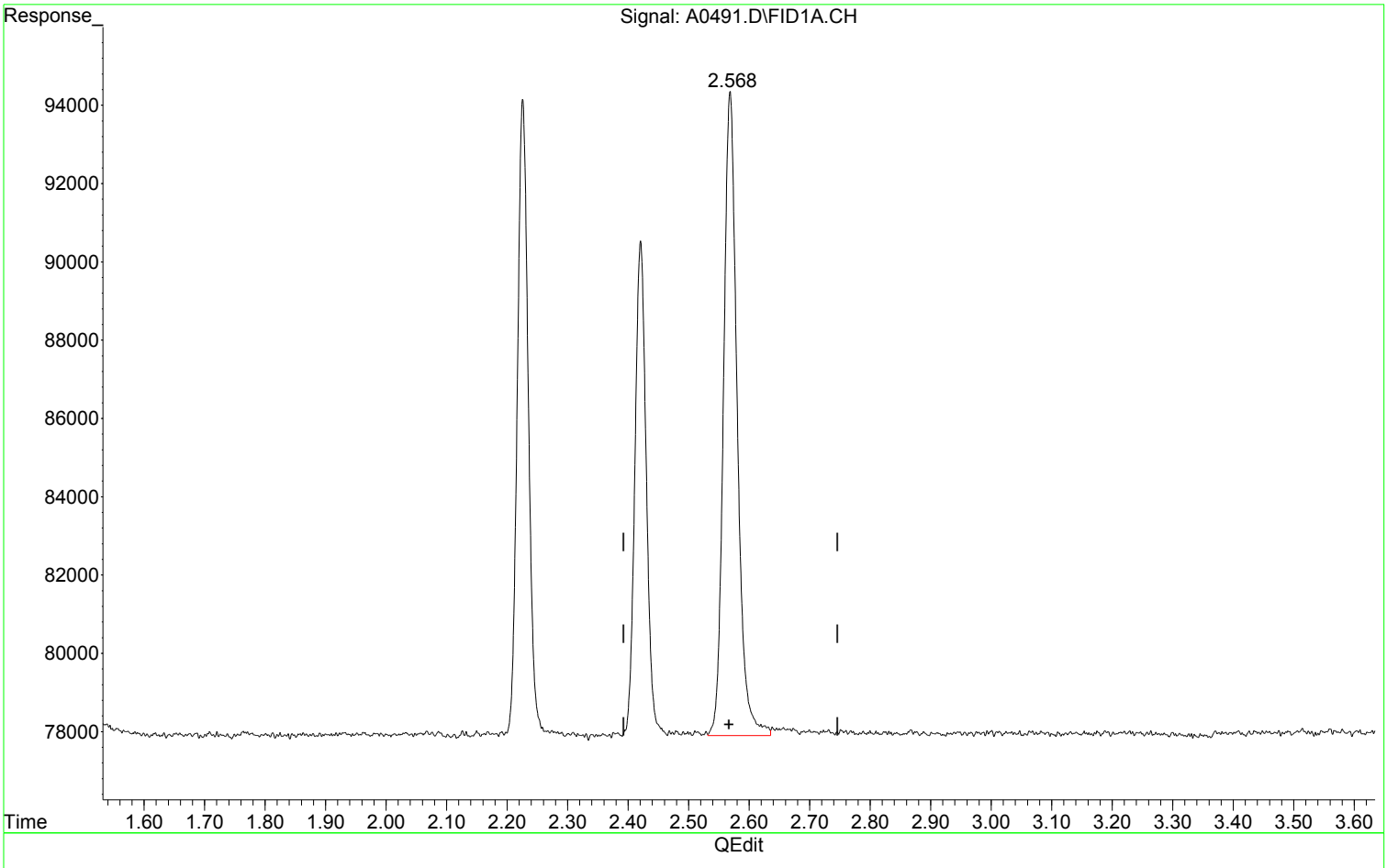
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.568min 4.795 ug/L m
response 258223

Manual Integration:
After
Peak not found.
05/02/24

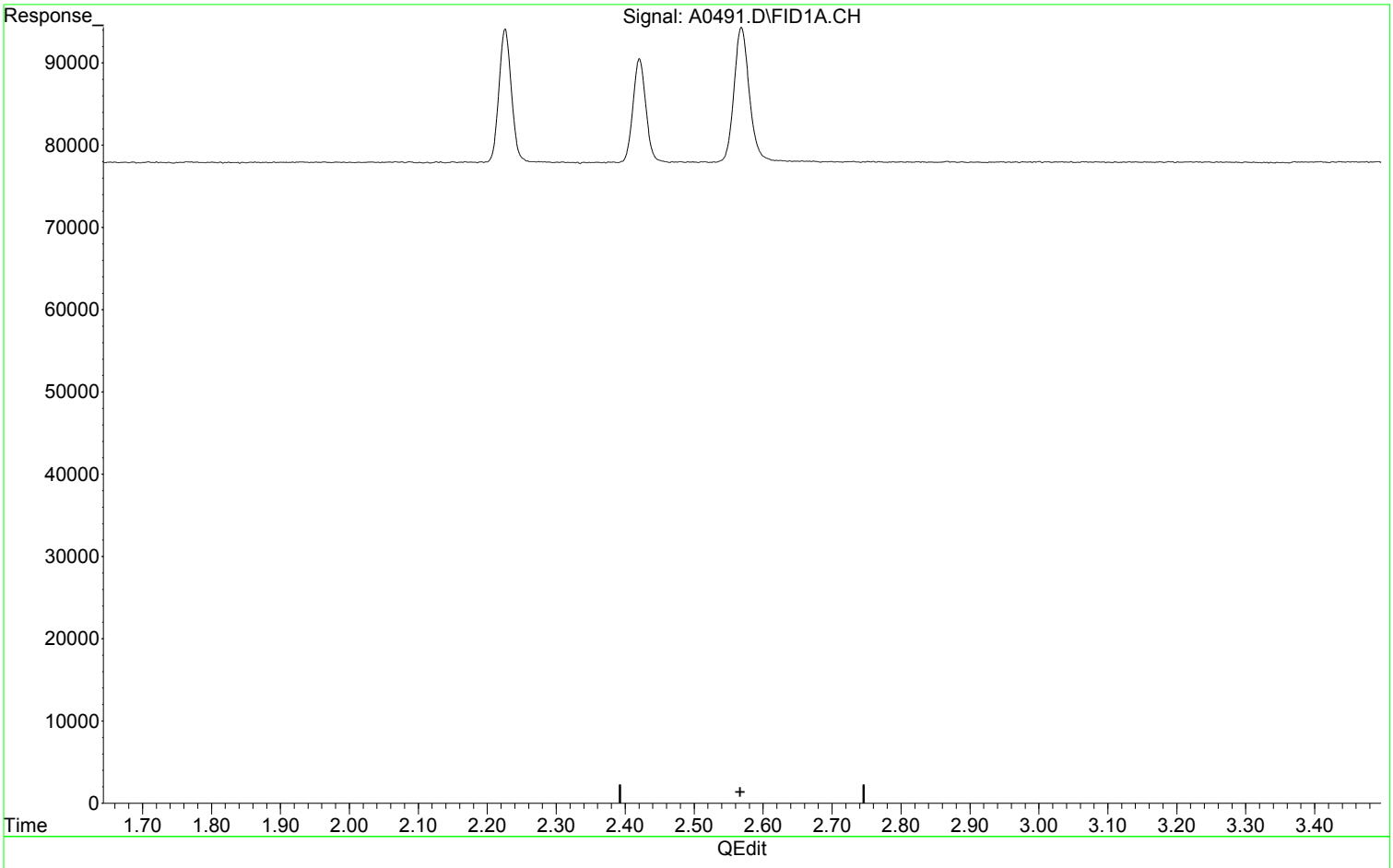
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.567min 0.000 ug/L
response 0

Manual Integration:
Before

05/02/24

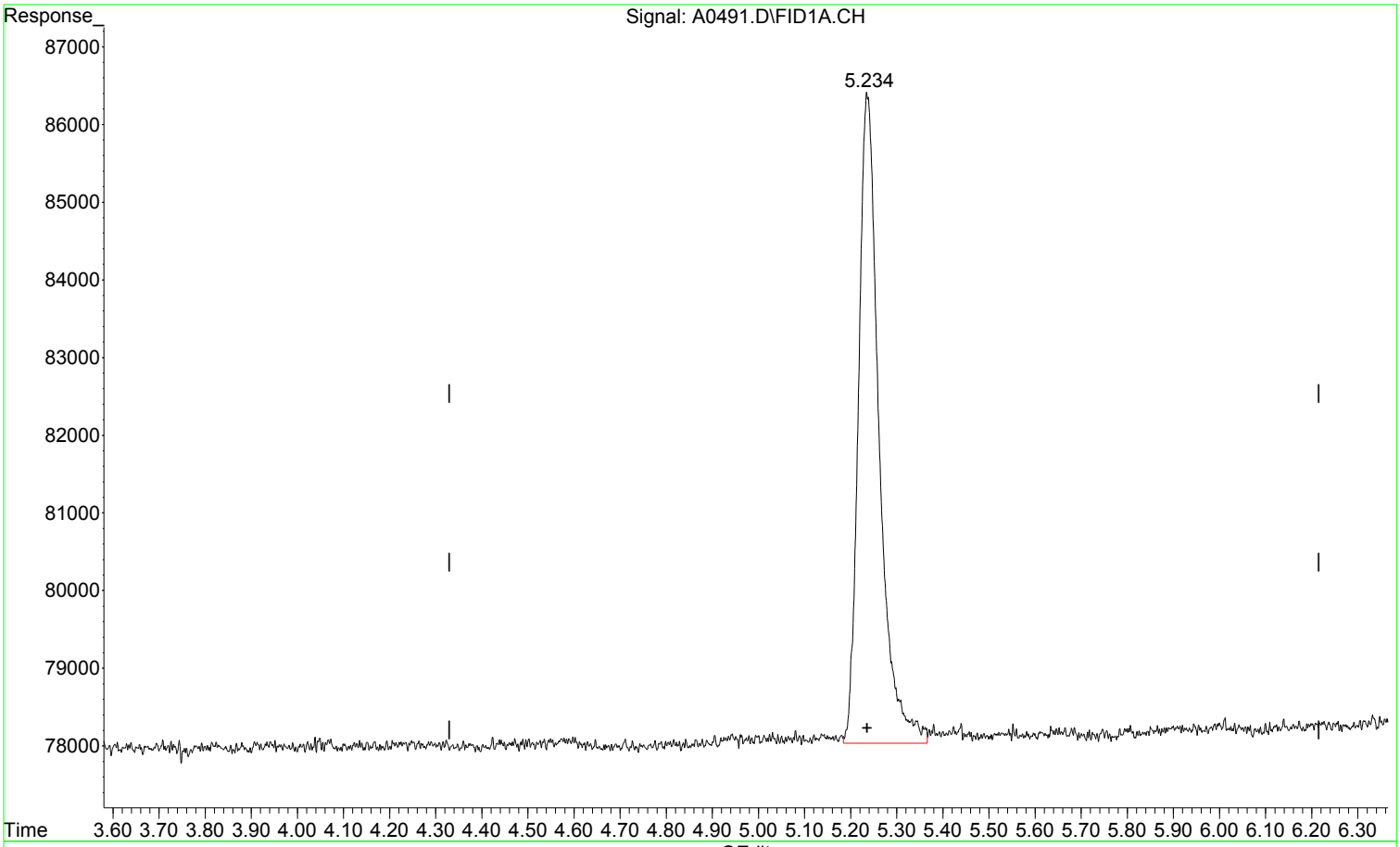
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(5) Propane
5.234min 4.586 ug/L m
response 260025

Manual Integration:
After
Peak not found.
05/02/24

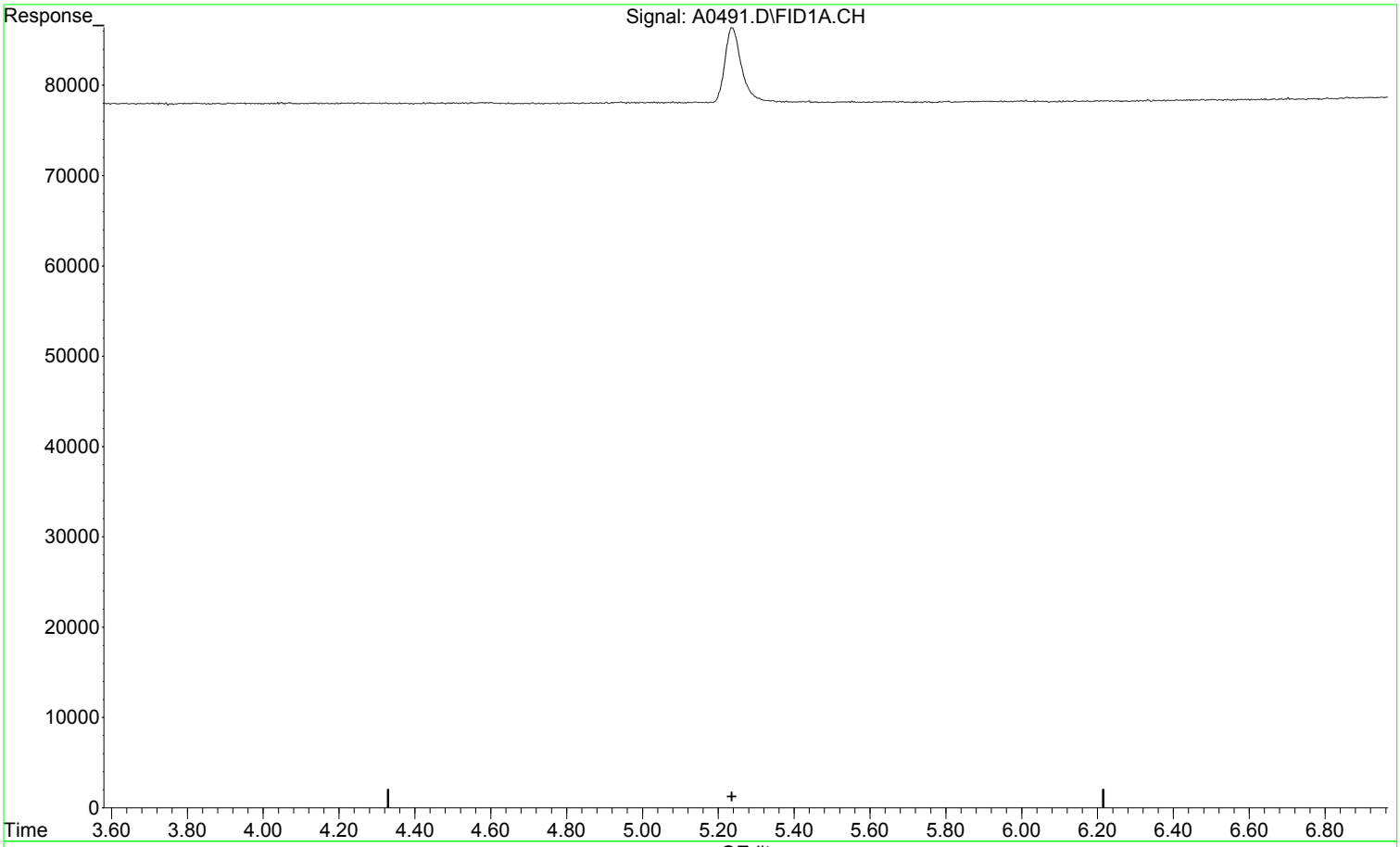
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(5) Propane
5.236min 0.000 ug/L
response 0

Manual Integration:
Before

05/02/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.471	377393	6.147 ug/L
2)	Acetylene	2.226	204234	8.893 ug/L m
3)	Ethylene	2.420	167239	4.203 ug/L m
4)	Ethane	2.568	258223	4.795 ug/L m
5)	Propane	5.234	260025	4.586 ug/L m

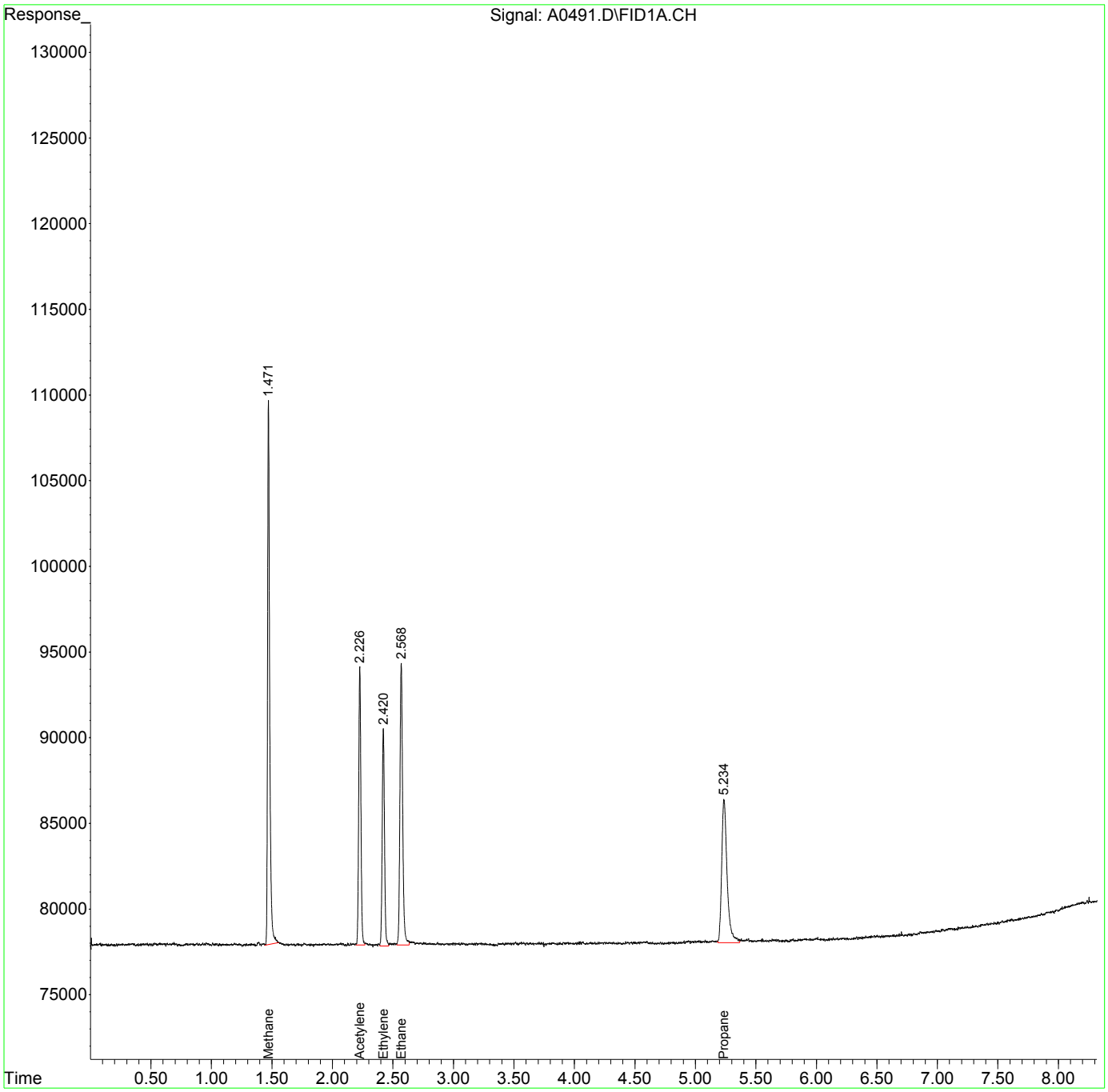
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

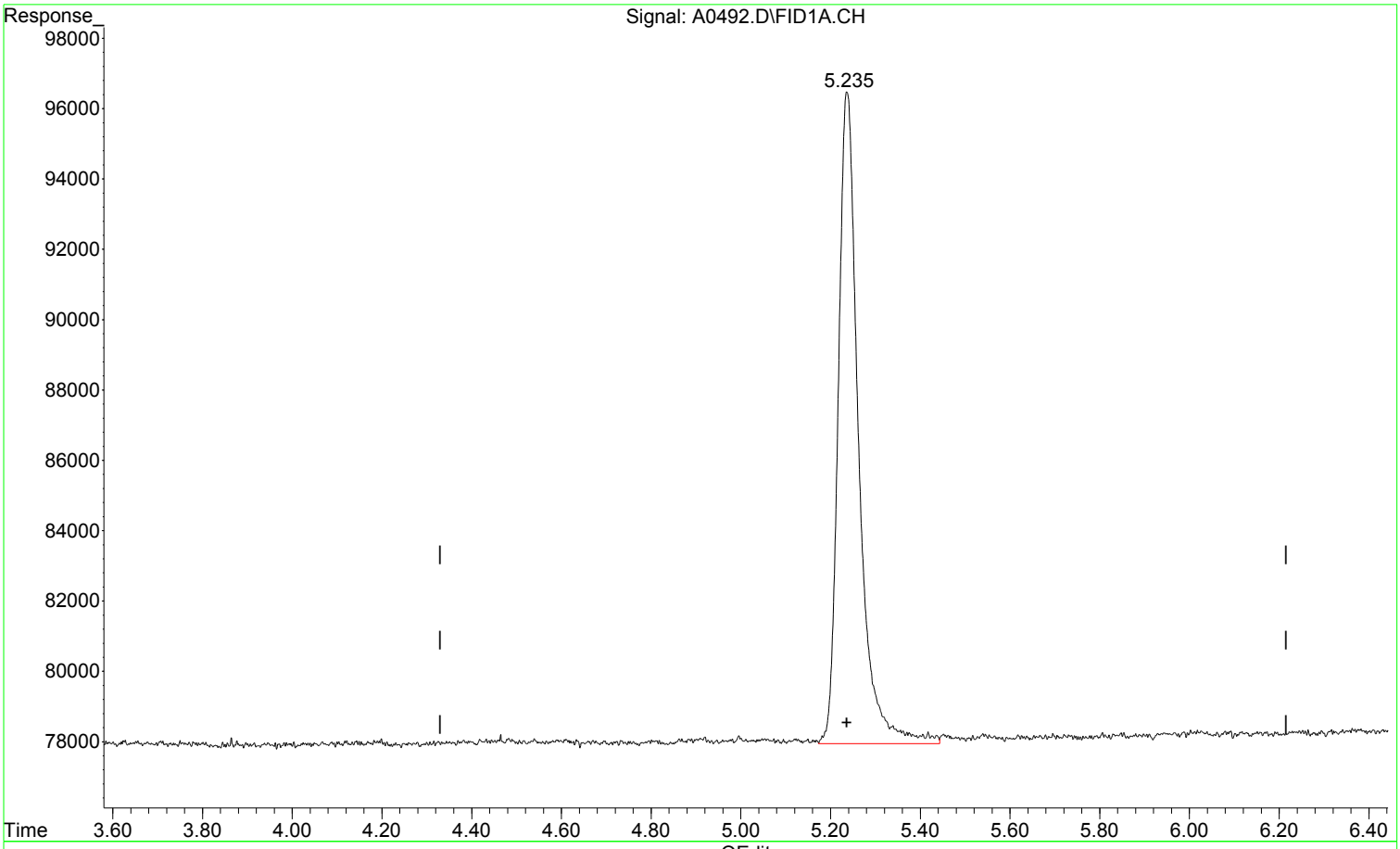


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0492.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:49 pm
Operator : F.NAEGLER
Sample : 10 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:58:10 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(5) Propane
5.235min 10.345 ug/L m
response 586565

Manual Integration:
After
Poor integration.
05/02/24

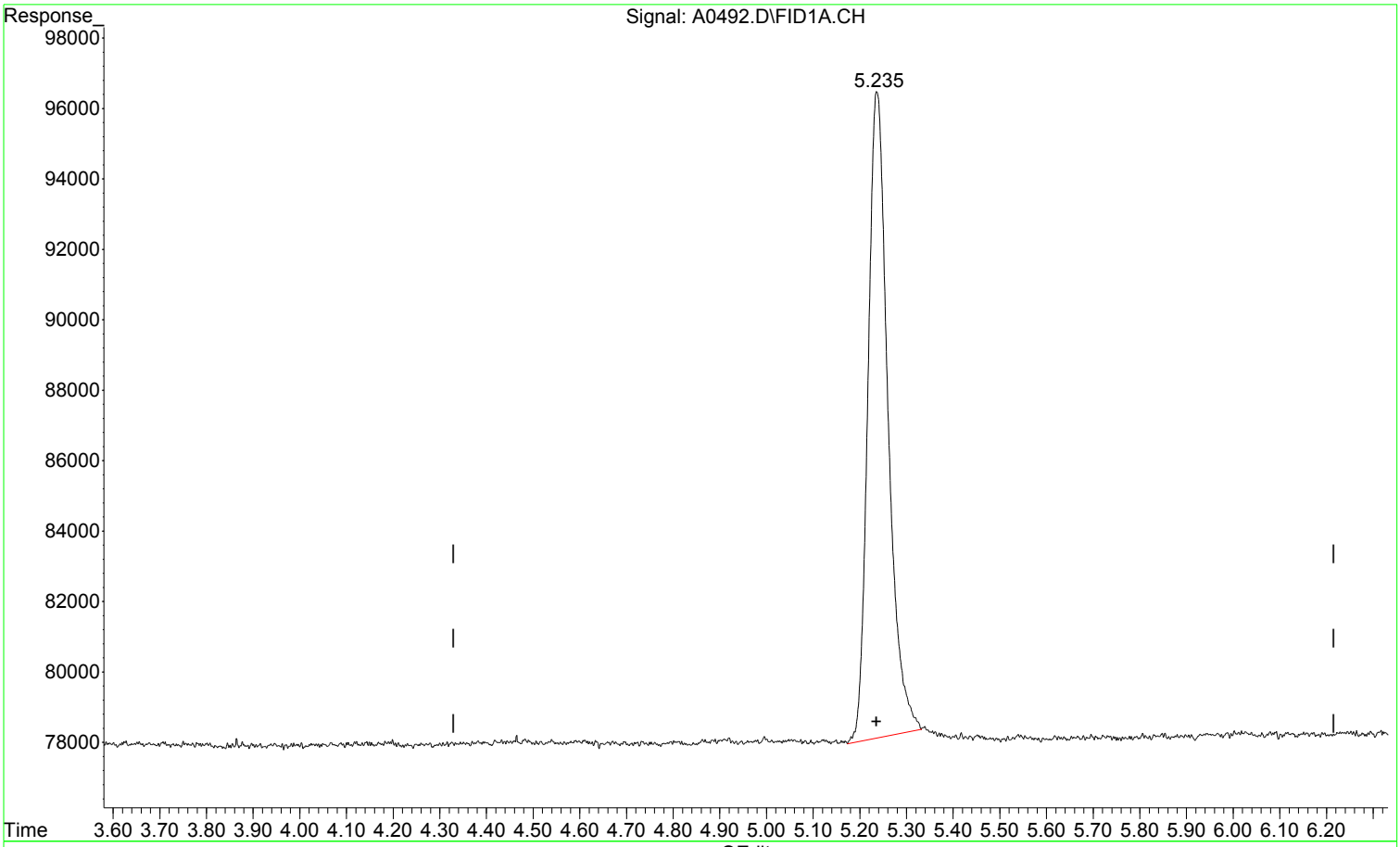
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0492.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:49 pm
Operator : F.NAEGLER
Sample : 10 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:58:10 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(5) Propane

5.237min 9.644 ug/L

response 546832

Manual Integration:

Before

05/02/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0492.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:49 pm
Operator : F.NAEGLER
Sample : 10 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:58:10 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.472	727006	11.841	ug/L
2)	Acetylene	2.227	459289	19.999	ug/L
3)	Ethylene	2.422	374436	9.410	ug/L
4)	Ethane	2.570	562428	10.445	ug/L
5)	Propane	5.235	586565	10.345	ug/L m

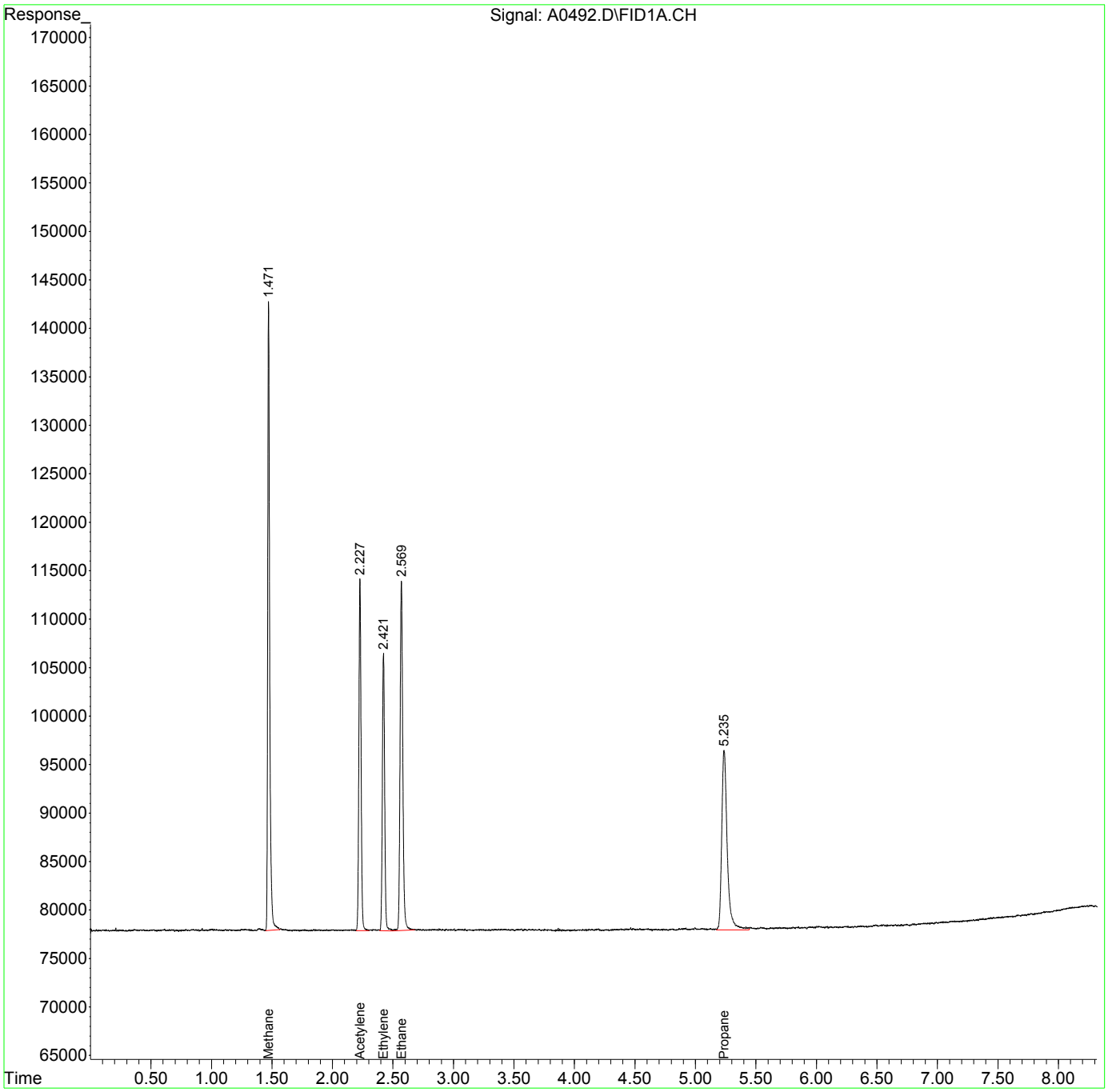
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0492.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:49 pm
Operator : F.NAEGLER
Sample : 10 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:58:10 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0493.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:00 pm
Operator : F.NAEGLER
Sample : 50 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:10:52 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.470	3214930	52.362 ug/L
2)	Acetylene	2.226	2624878	114.298 ug/L
3)	Ethylene	2.421	2322540	58.371 ug/L
4)	Ethane	2.568	3117518	57.895 ug/L
5)	Propane	5.236	3236715	57.083 ug/L

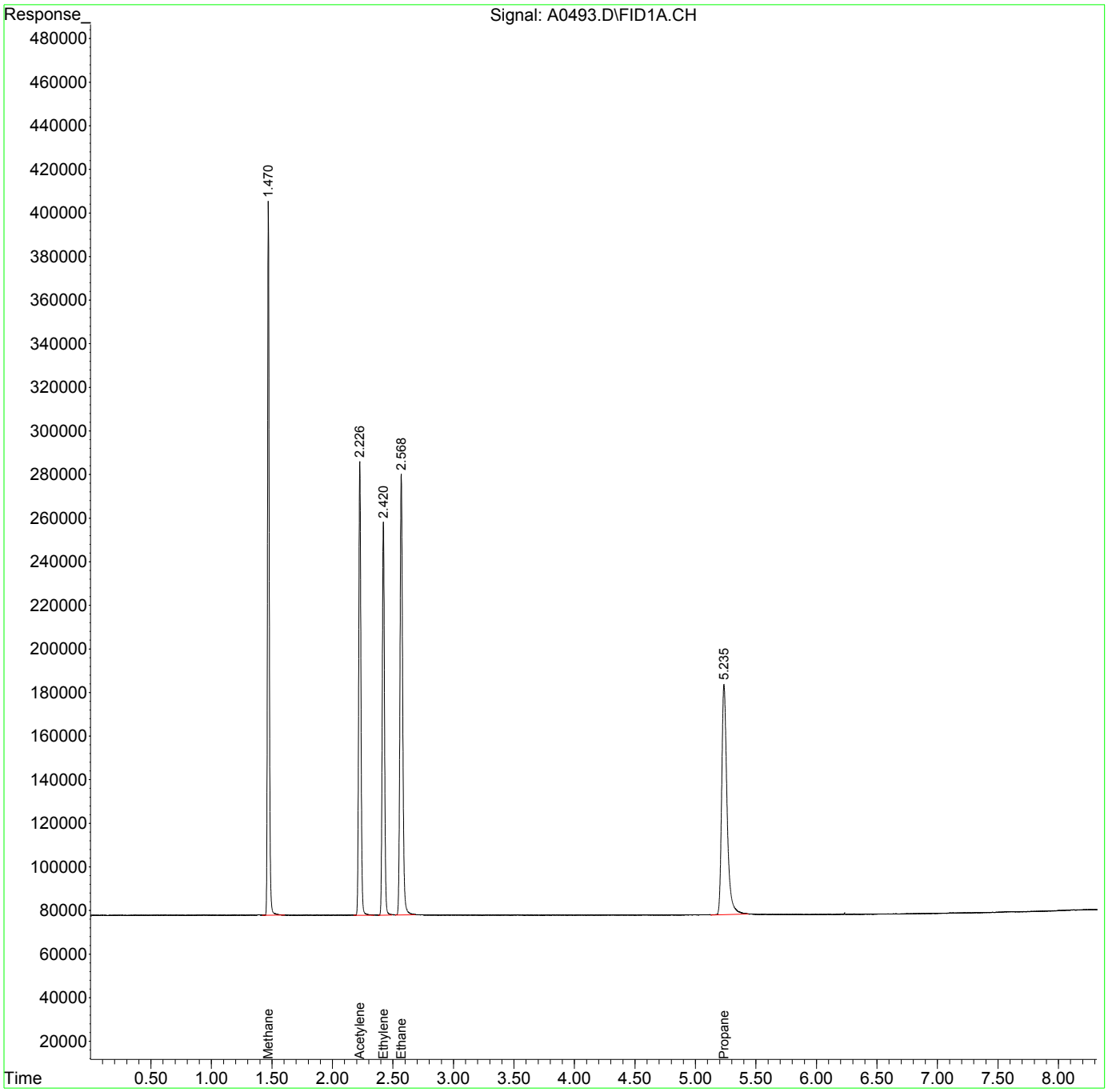
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0493.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:00 pm
Operator : F.NAEGLER
Sample : 50 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:10:52 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0494.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:12 pm
Operator : F.NAEGLER
Sample : 100 PPB STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:21:22 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.469	5418591	88.254 ug/L
2)	Acetylene	2.224	4437102	193.209 ug/L
3)	Ethylene	2.419	3694078	92.840 ug/L
4)	Ethane	2.567	5320059	98.799 ug/L
5)	Propane	5.235	5560210	98.060 ug/L

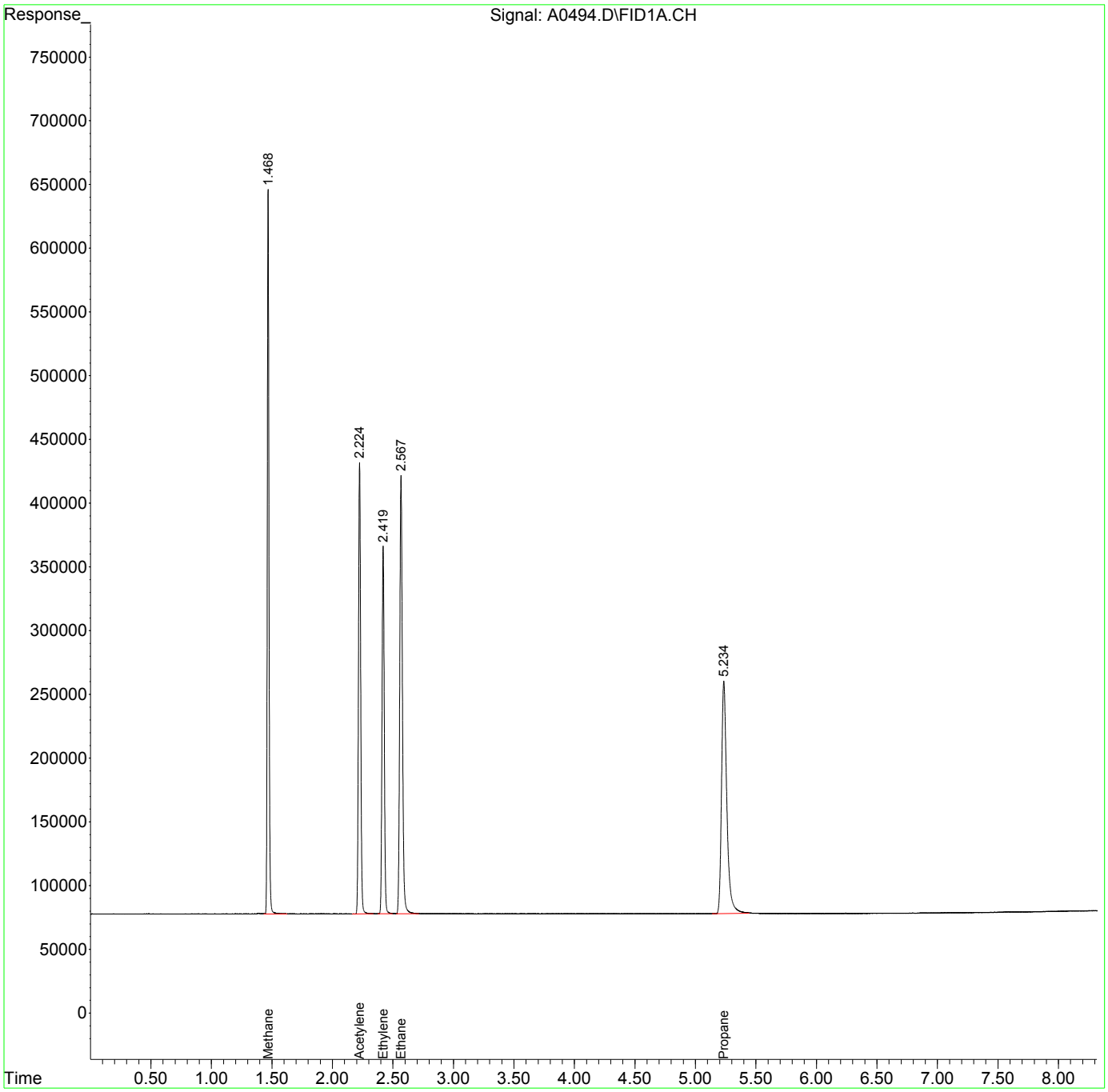
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0494.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:12 pm
Operator : F.NAEGLER
Sample : 100 PPB STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:21:22 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0495.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:25 pm
Operator : F.NAEGLER
Sample : 250 PPB STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:34:20 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.467	13990118	227.860 ug/L
2)	Acetylene	2.223	11801293	513.876 ug/L
3)	Ethylene	2.418	10615846	266.800 ug/L
4)	Ethane	2.565	14055083	261.016 ug/L
5)	Propane	5.233	14723903	259.670 ug/L

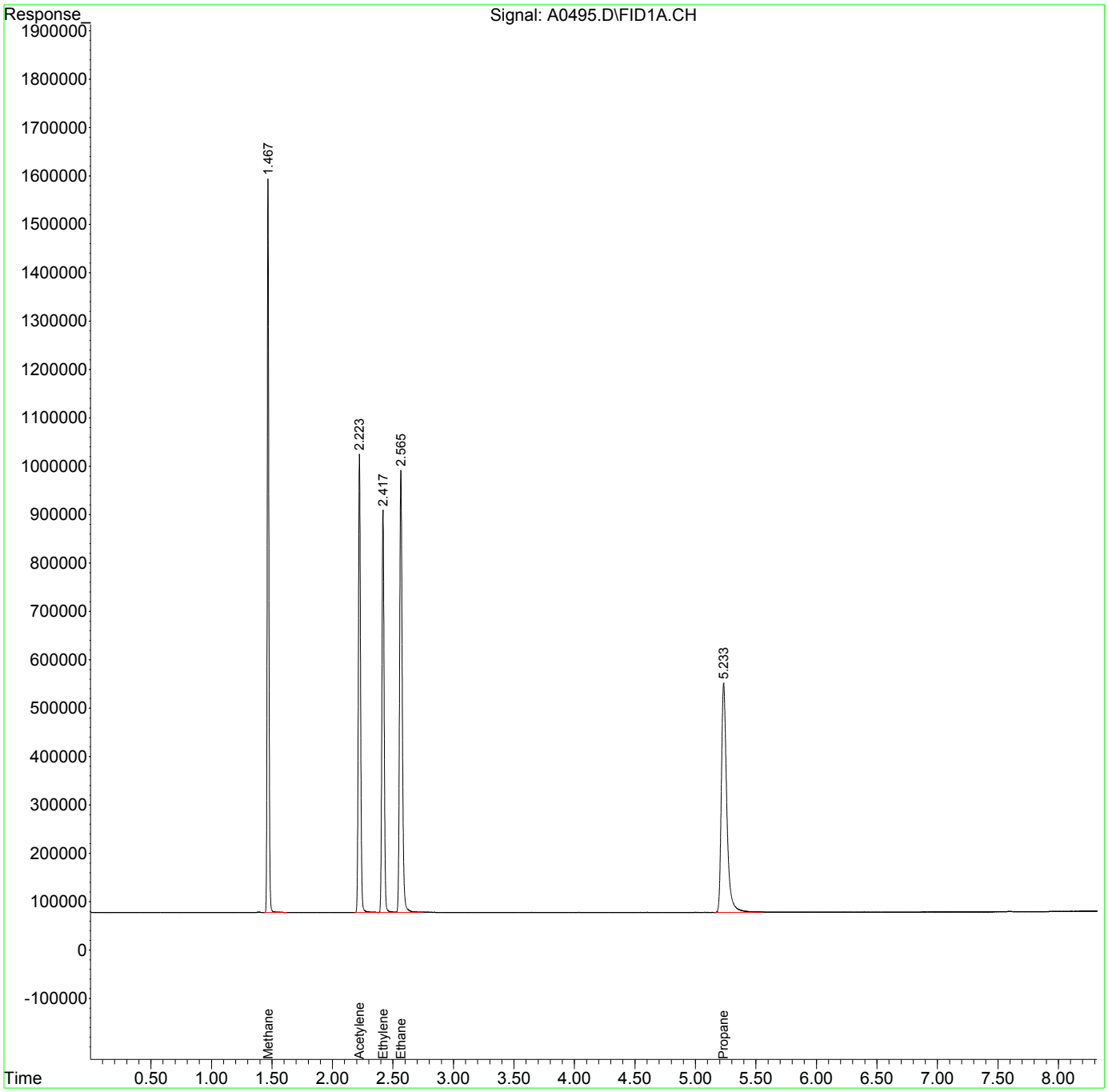
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0495.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:25 pm
Operator : F.NAEGLER
Sample : 250 PPB STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:34:20 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0496.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:37 pm
Operator : F.NAEGLER
Sample : 375 PPB STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:47:17 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.469	21884847	356.443 ug/L
2)	Acetylene	2.224	18171519	791.261 ug/L
3)	Ethylene	2.418	16170682	406.405 ug/L
4)	Ethane	2.566	21759513	404.095 ug/L
5)	Propane	5.234	22727156	400.815 ug/L

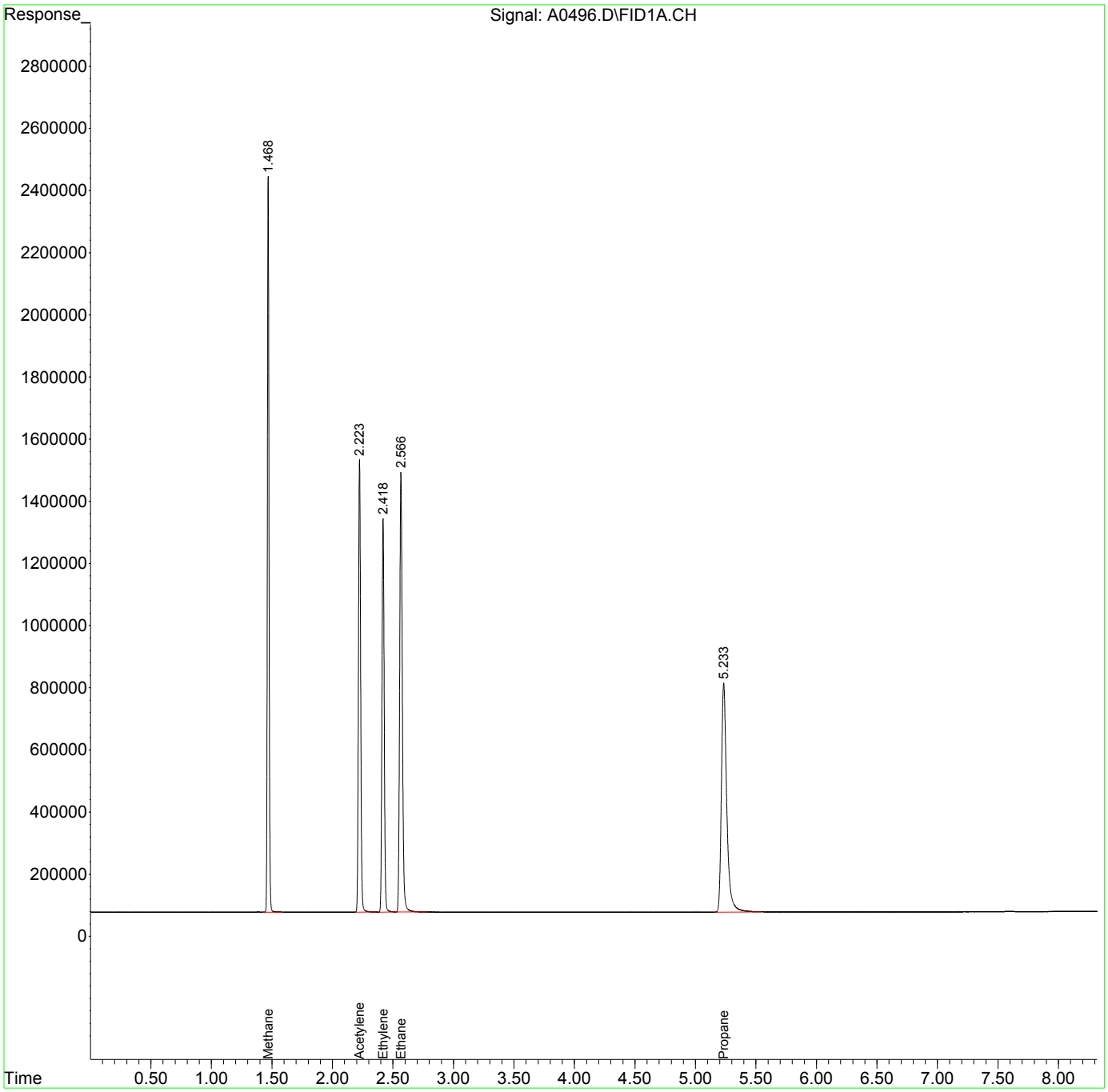
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0496.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:37 pm
Operator : F.NAEGLER
Sample : 375 PPB STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:47:17 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0497.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:49 pm
Operator : F.NAEGLER
Sample : 500 PPB STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:59:21 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:50:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.468	28142971	464.331 ug/L
2)	Acetylene	2.224	23609982	1015.136 ug/L
3)	Ethylene	2.418	20770596	505.212 ug/L
4)	Ethane	2.566	28288871	523.225 ug/L
5)	Propane	5.234	29723608	518.290 ug/L

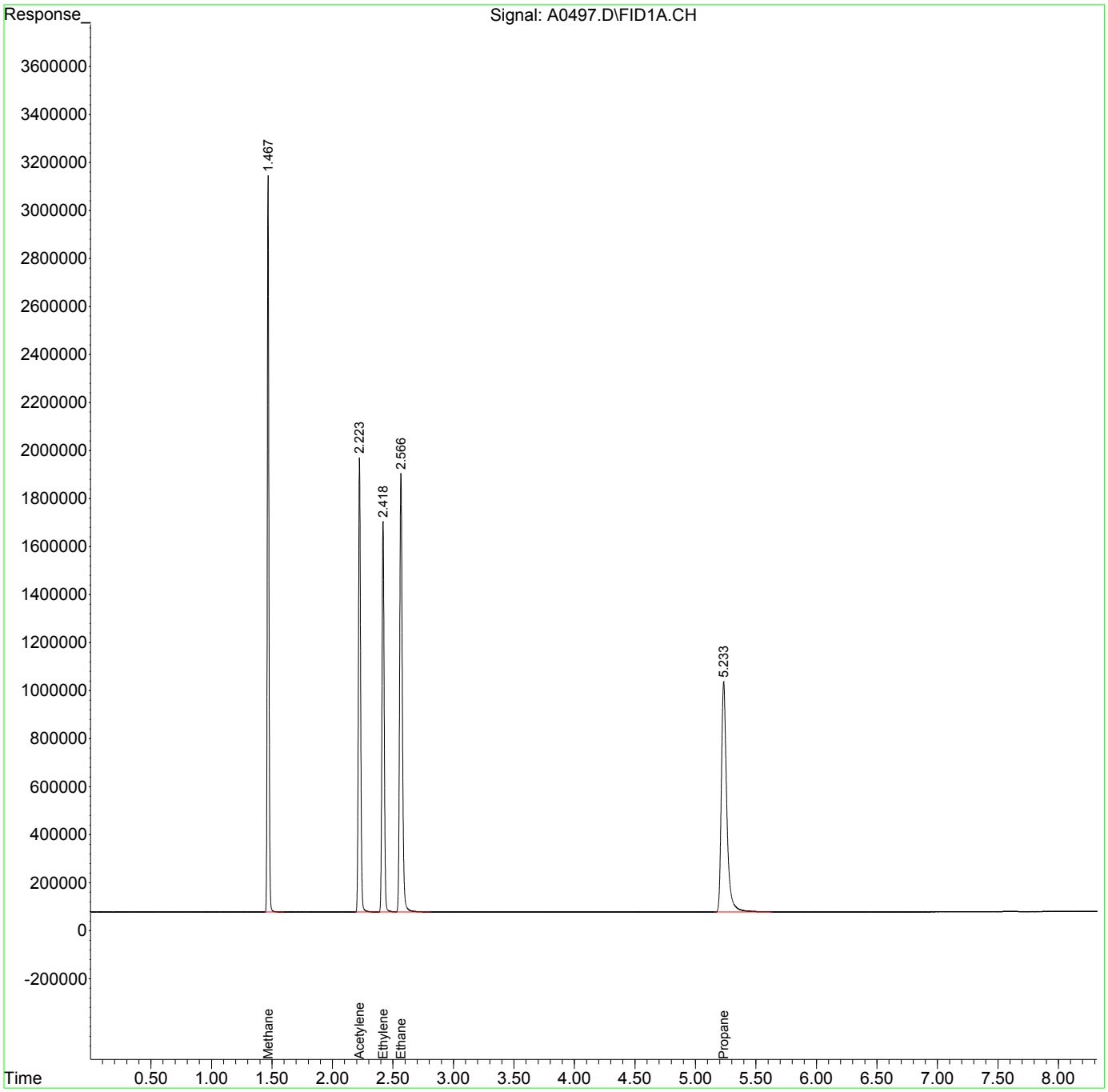
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0497.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:49 pm
Operator : F.NAEGLER
Sample : 500 PPB STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:59:21 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:50:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0499.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 4:17 pm
Operator : F.NAEGLER
Sample : 250 PPB ICV
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:27:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Methane	262.300	240.007	8.5	102	0.00
2	Acetylene	500.600	519.197	-3.7	103	0.00
3	Ethylene	242.800	253.528	-4.4	99	0.00
4	Ethane	260.300	267.485	-2.8	103	0.00
5	Propane	254.500	262.040	-3.0	102	0.00

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0499.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 4:17 pm
Operator : F.NAEGLER
Sample : 250 PPB ICV
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:27:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.468	14308021	240.007 ug/L
2)	Acetylene	2.223	12099466	519.197 ug/L
3)	Ethylene	2.418	10483009	253.528 ug/L
4)	Ethane	2.566	14471962	267.485 ug/L
5)	Propane	5.234	15066997	262.040 ug/L

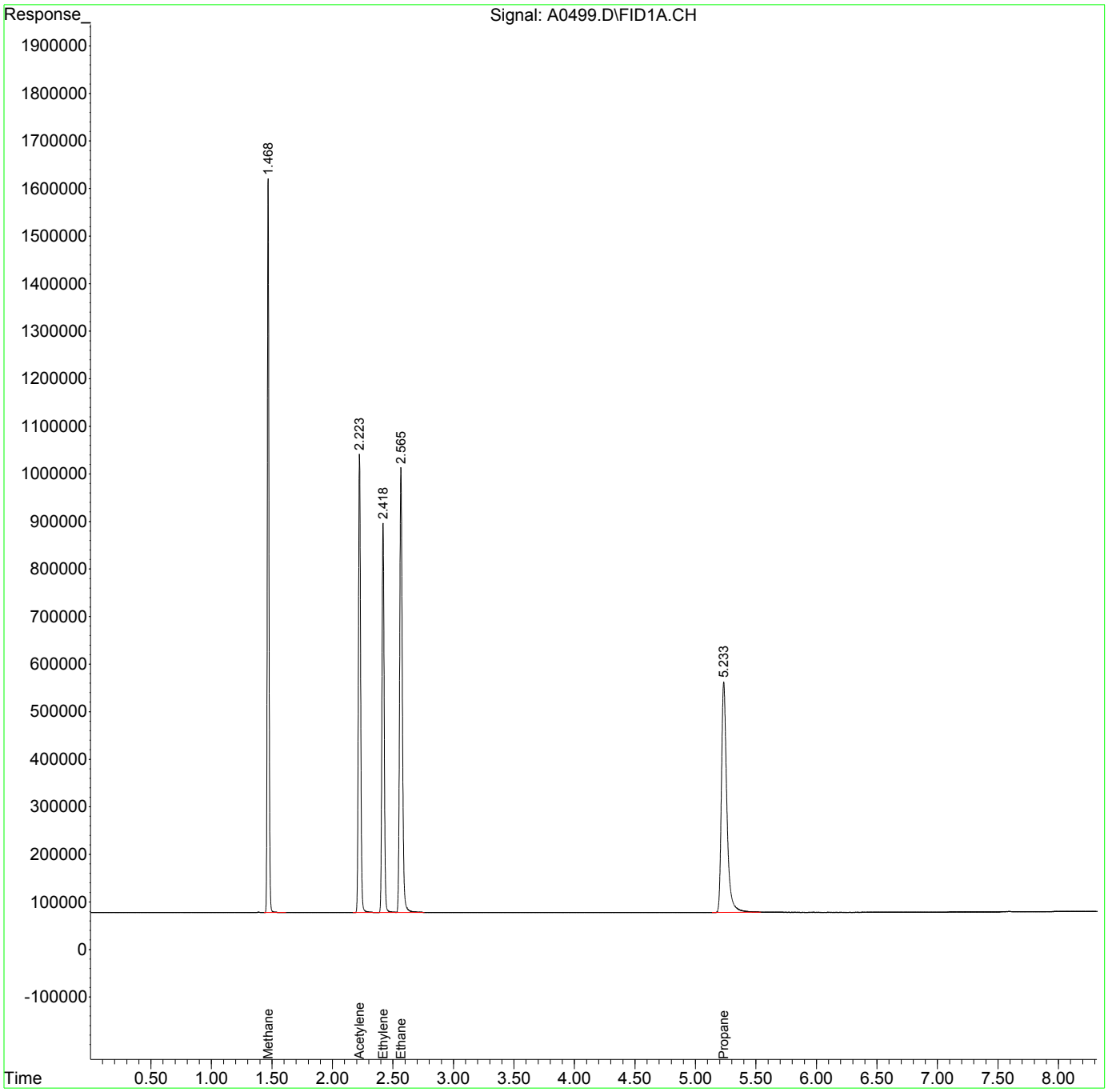
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0499.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 4:17 pm
Operator : F.NAEGLER
Sample : 250 PPB ICV
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:27:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0499.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 4:17 pm
Operator : F.NAEGLER
Sample : 250 PPB ICV
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:27:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Methane	262.300	240.007	8.5	102	0.00
2	Acetylene	500.600	519.197	-3.7	103	0.00
3	Ethylene	242.800	253.528	-4.4	99	0.00
4	Ethane	260.300	267.485	-2.8	103	0.00
5	Propane	254.500	262.040	-3.0	102	0.00

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0497.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:49 pm
Operator : F.NAEGLER
Sample : 500 PPB STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:59:21 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:50:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.468	28142971	464.331 ug/L
2)	Acetylene	2.224	23609982	1015.136 ug/L
3)	Ethylene	2.418	20770596	505.212 ug/L
4)	Ethane	2.566	28288871	523.225 ug/L
5)	Propane	5.234	29723608	518.290 ug/L

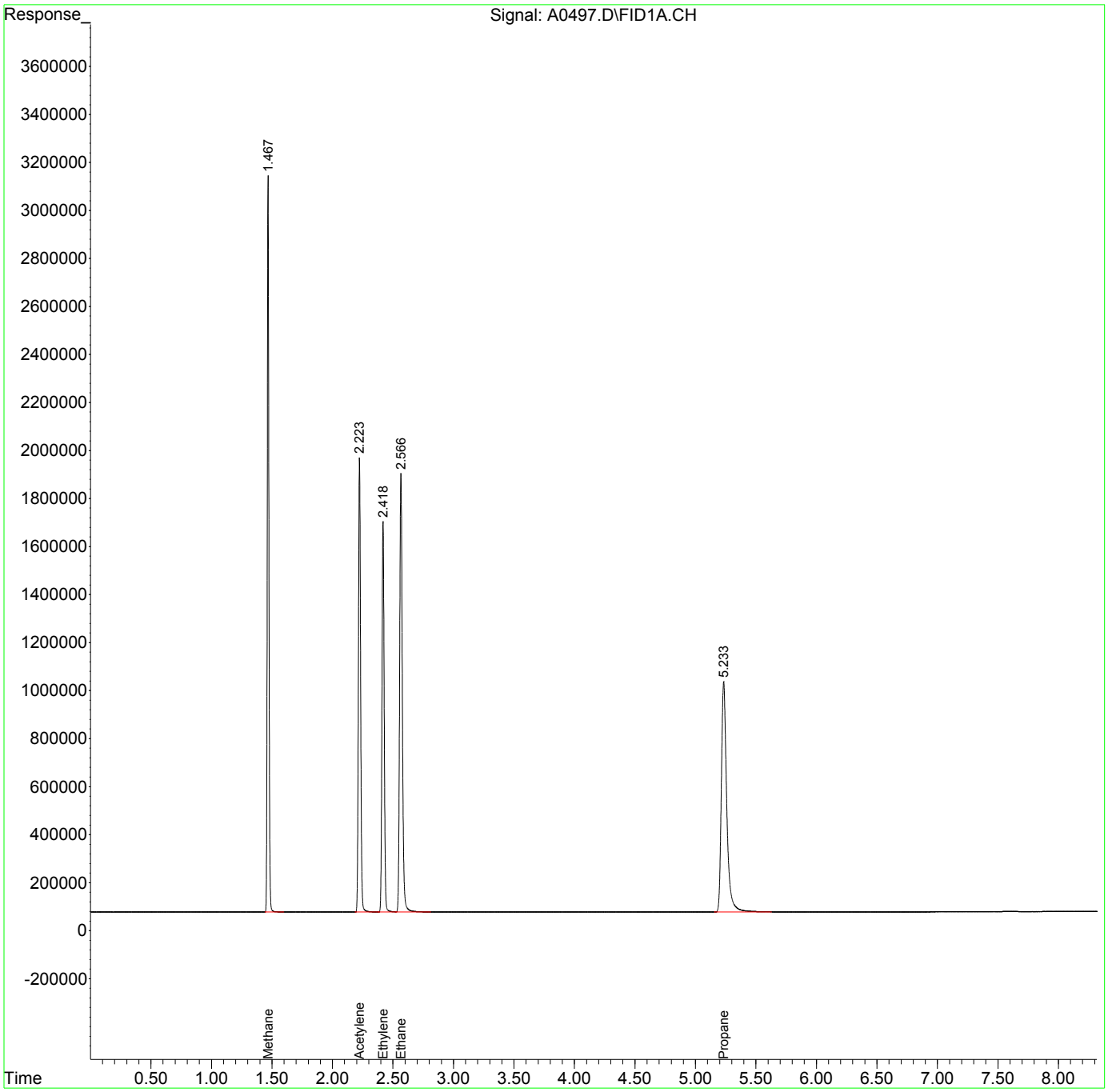
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0497.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:49 pm
Operator : F.NAEGLER
Sample : 500 PPB STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:59:21 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:50:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0496.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:37 pm
Operator : F.NAEGLER
Sample : 375 PPB STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:47:17 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.469	21884847	356.443 ug/L
2)	Acetylene	2.224	18171519	791.261 ug/L
3)	Ethylene	2.418	16170682	406.405 ug/L
4)	Ethane	2.566	21759513	404.095 ug/L
5)	Propane	5.234	22727156	400.815 ug/L

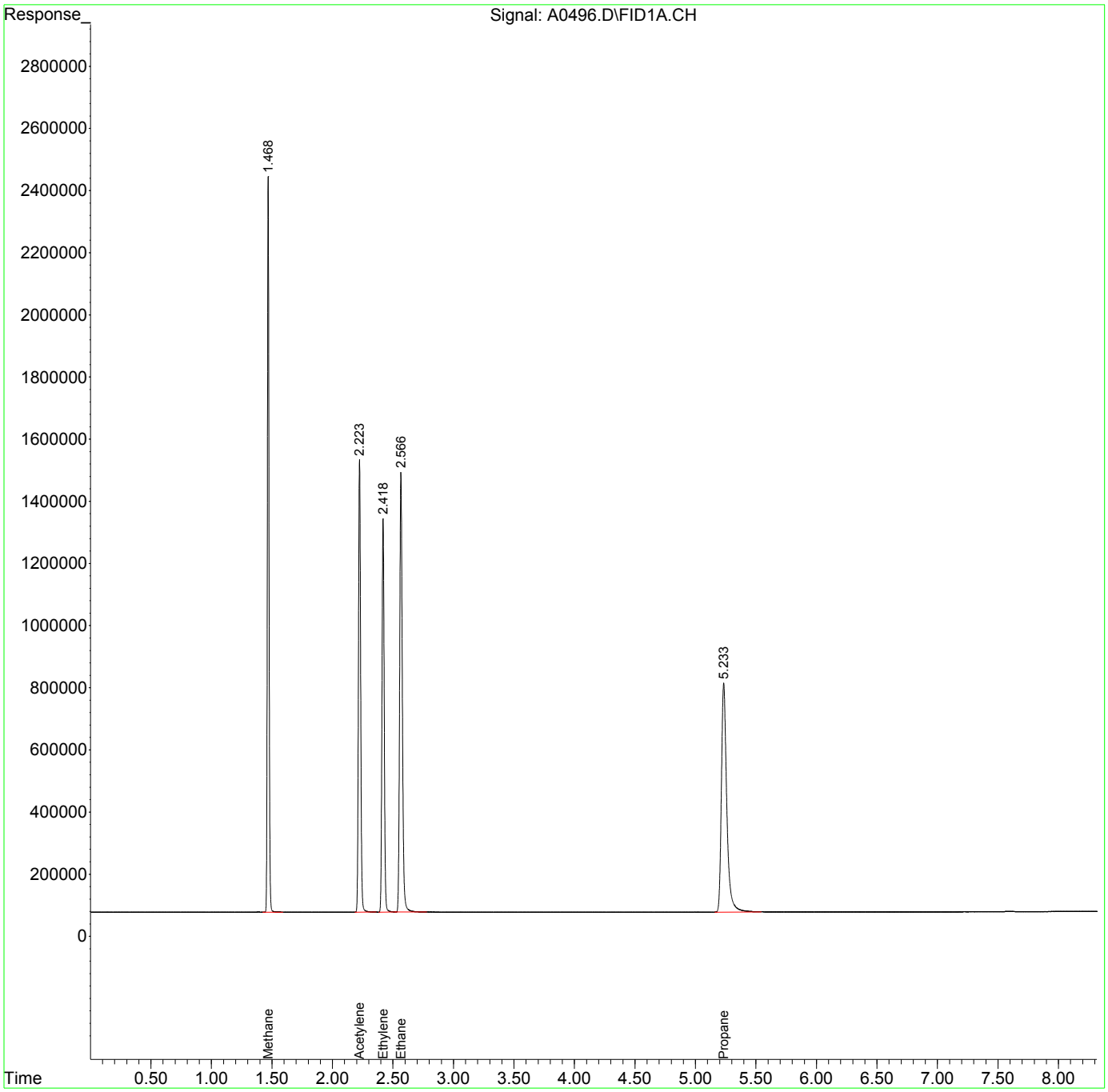
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0496.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:37 pm
Operator : F.NAEGLER
Sample : 375 PPB STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:47:17 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0495.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:25 pm
Operator : F.NAEGLER
Sample : 250 PPB STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:34:20 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.467	13990118	227.860	ug/L
2)	Acetylene	2.223	11801293	513.876	ug/L
3)	Ethylene	2.418	10615846	266.800	ug/L
4)	Ethane	2.565	14055083	261.016	ug/L
5)	Propane	5.233	14723903	259.670	ug/L

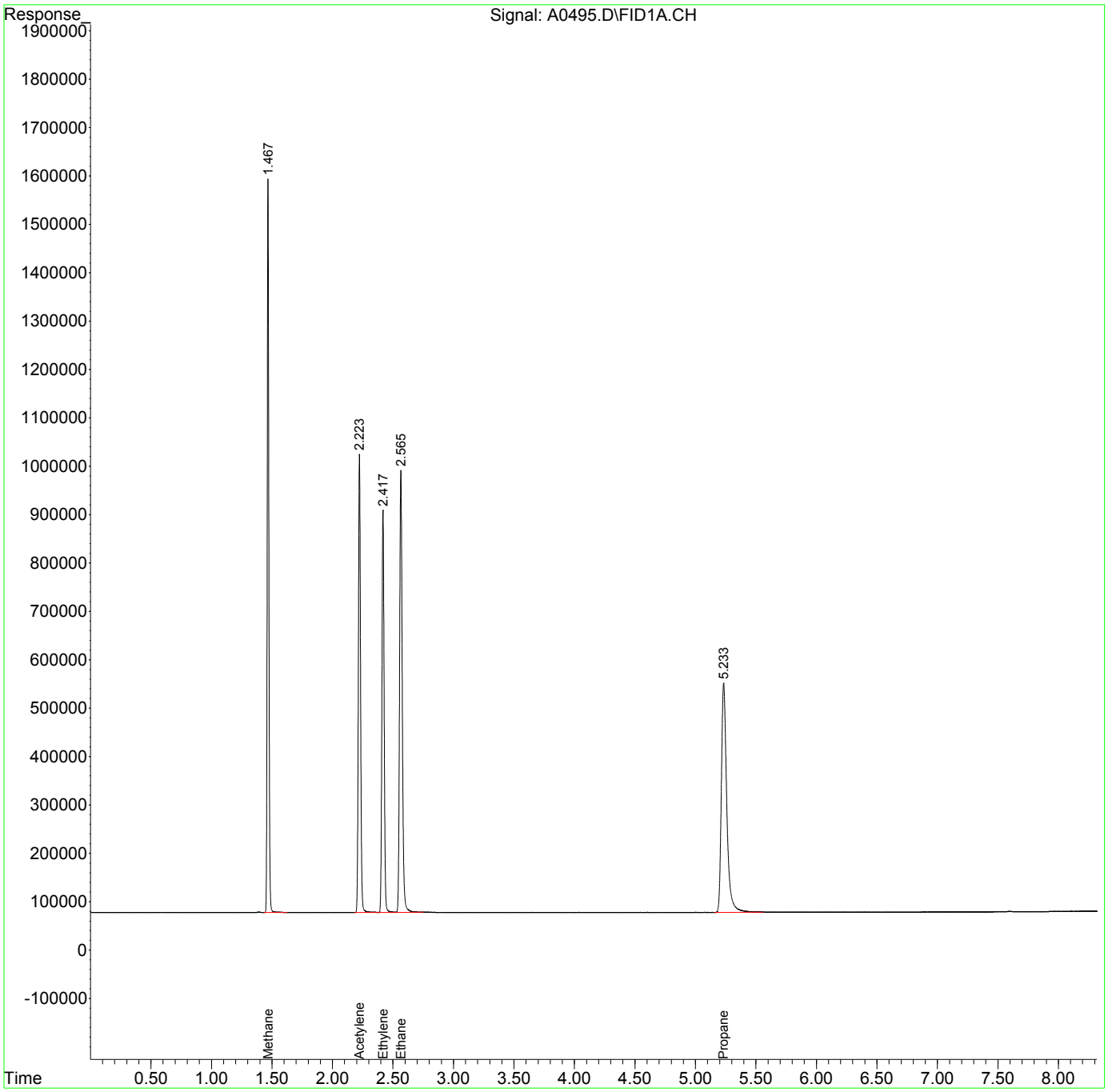
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0495.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:25 pm
Operator : F.NAEGLER
Sample : 250 PPB STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:34:20 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0494.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:12 pm
Operator : F.NAEGLER
Sample : 100 PPB STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:21:22 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.469	5418591	88.254 ug/L
2)	Acetylene	2.224	4437102	193.209 ug/L
3)	Ethylene	2.419	3694078	92.840 ug/L
4)	Ethane	2.567	5320059	98.799 ug/L
5)	Propane	5.235	5560210	98.060 ug/L

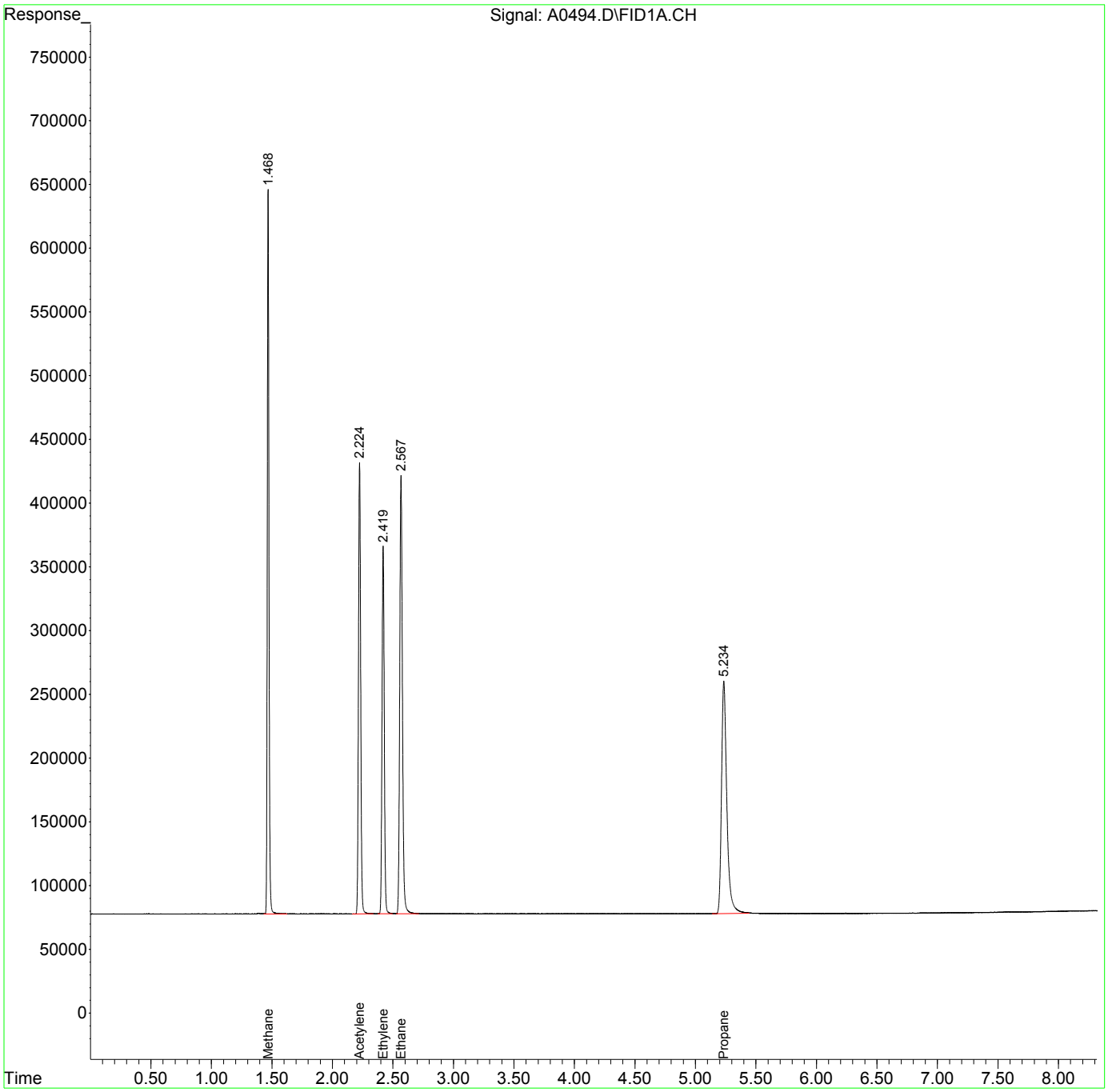
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0494.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:12 pm
Operator : F.NAEGLER
Sample : 100 PPB STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:21:22 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0493.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:00 pm
Operator : F.NAEGLER
Sample : 50 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:10:52 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.470	3214930	52.362 ug/L
2)	Acetylene	2.226	2624878	114.298 ug/L
3)	Ethylene	2.421	2322540	58.371 ug/L
4)	Ethane	2.568	3117518	57.895 ug/L
5)	Propane	5.236	3236715	57.083 ug/L

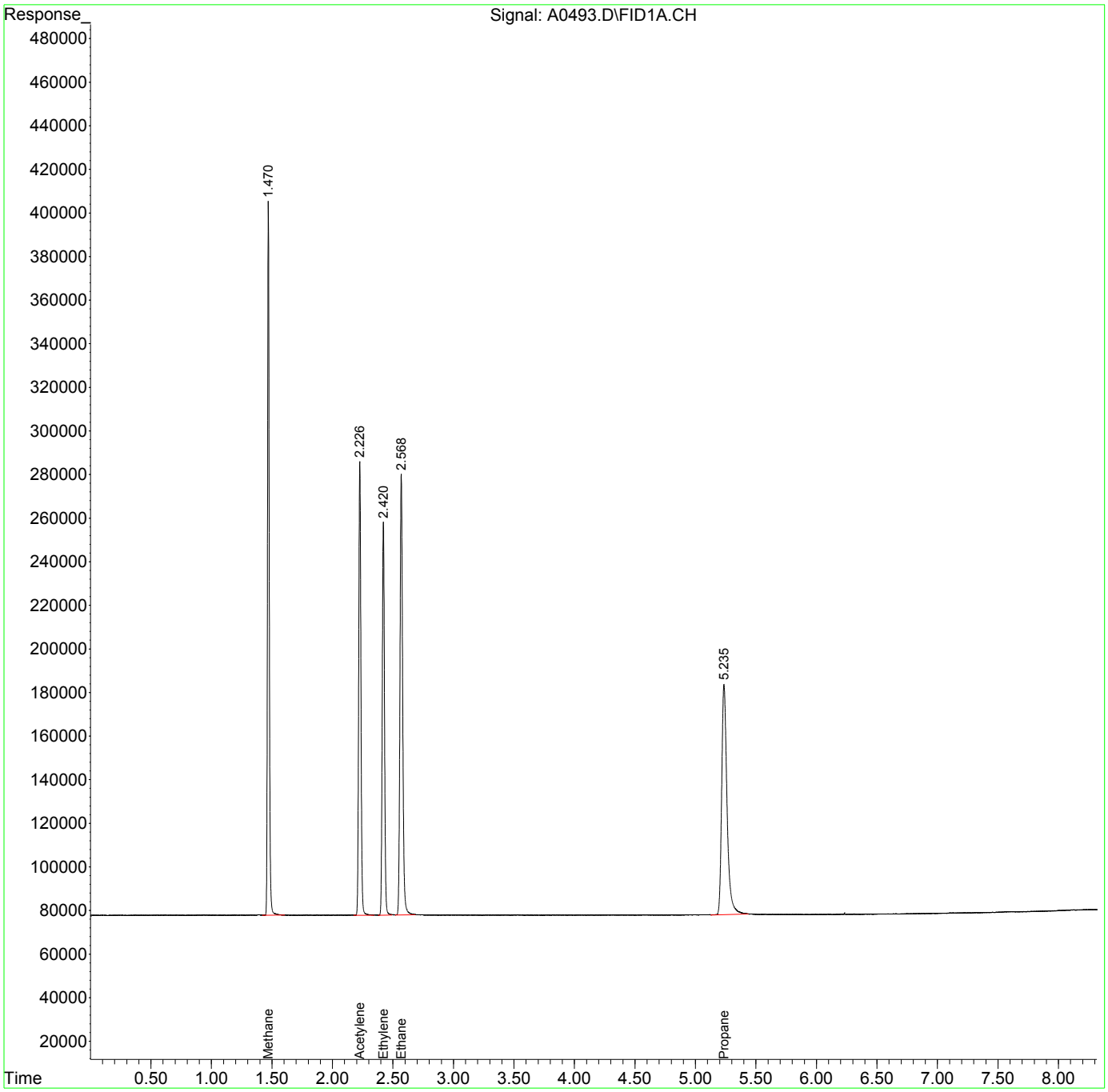
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0493.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:00 pm
Operator : F.NAEGLER
Sample : 50 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:10:52 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0492.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:49 pm
Operator : F.NAEGLER
Sample : 10 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:58:10 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.472	727006	11.841 ug/L
2)	Acetylene	2.227	459289	19.999 ug/L
3)	Ethylene	2.422	374436	9.410 ug/L
4)	Ethane	2.570	562428	10.445 ug/L
5)	Propane	5.235	586565	10.345 ug/L m

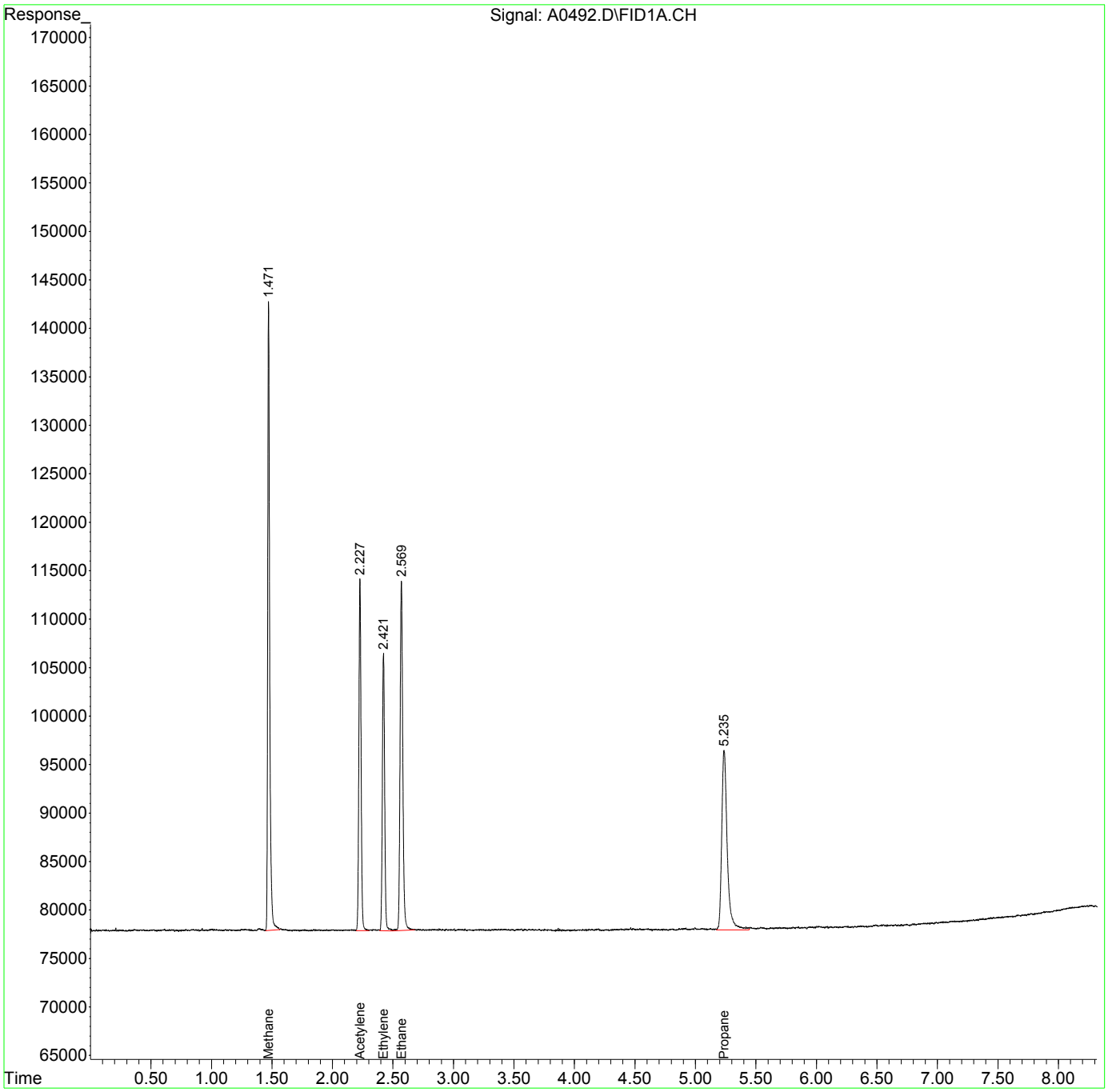
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0492.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:49 pm
Operator : F.NAEGLER
Sample : 10 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:58:10 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

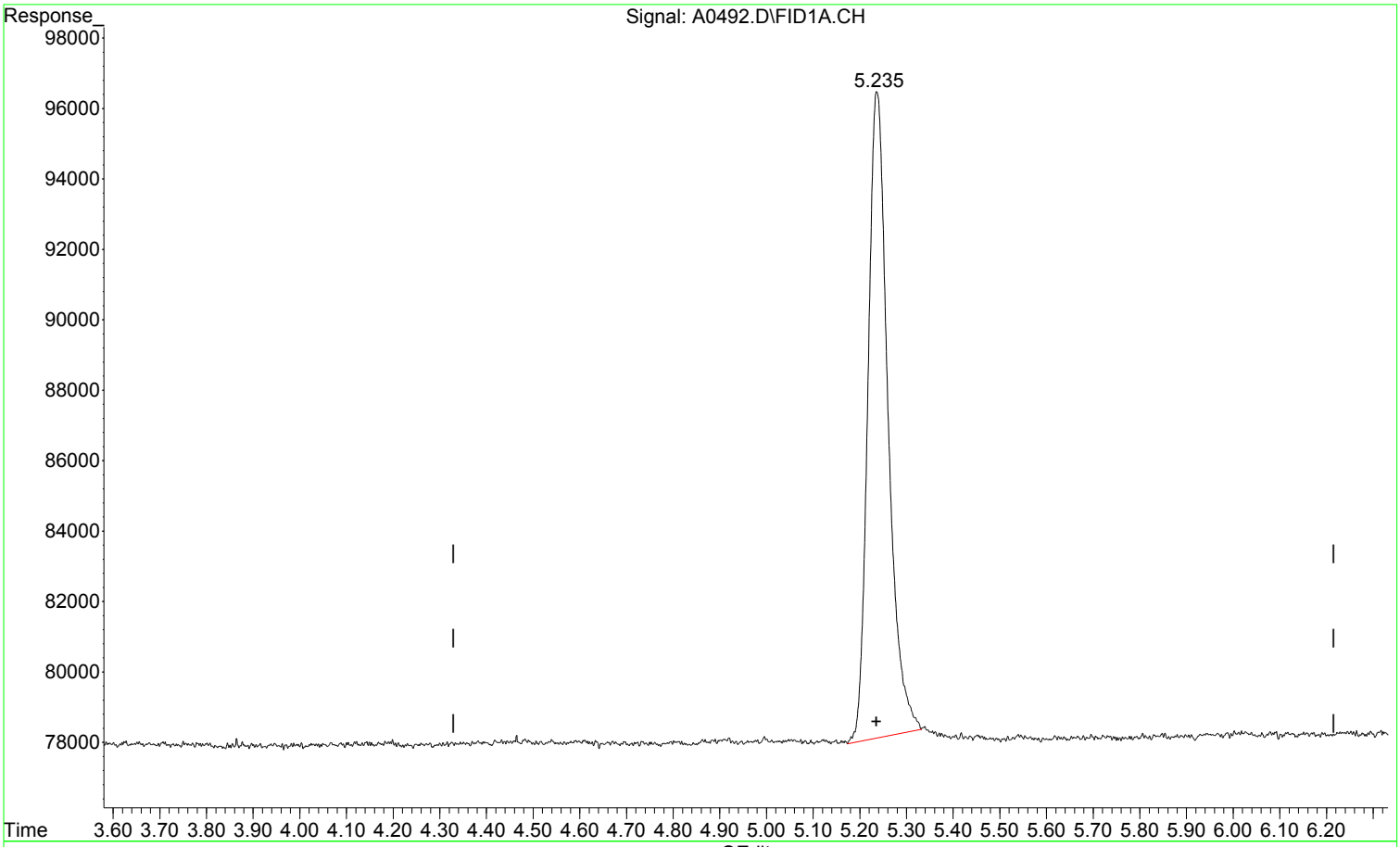


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0492.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:49 pm
Operator : F.NAEGLER
Sample : 10 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:58:10 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(5) Propane

5.237min 9.644 ug/L

response 546832

Manual Integration:

Before

05/02/24

(+) = Expected Retention Time

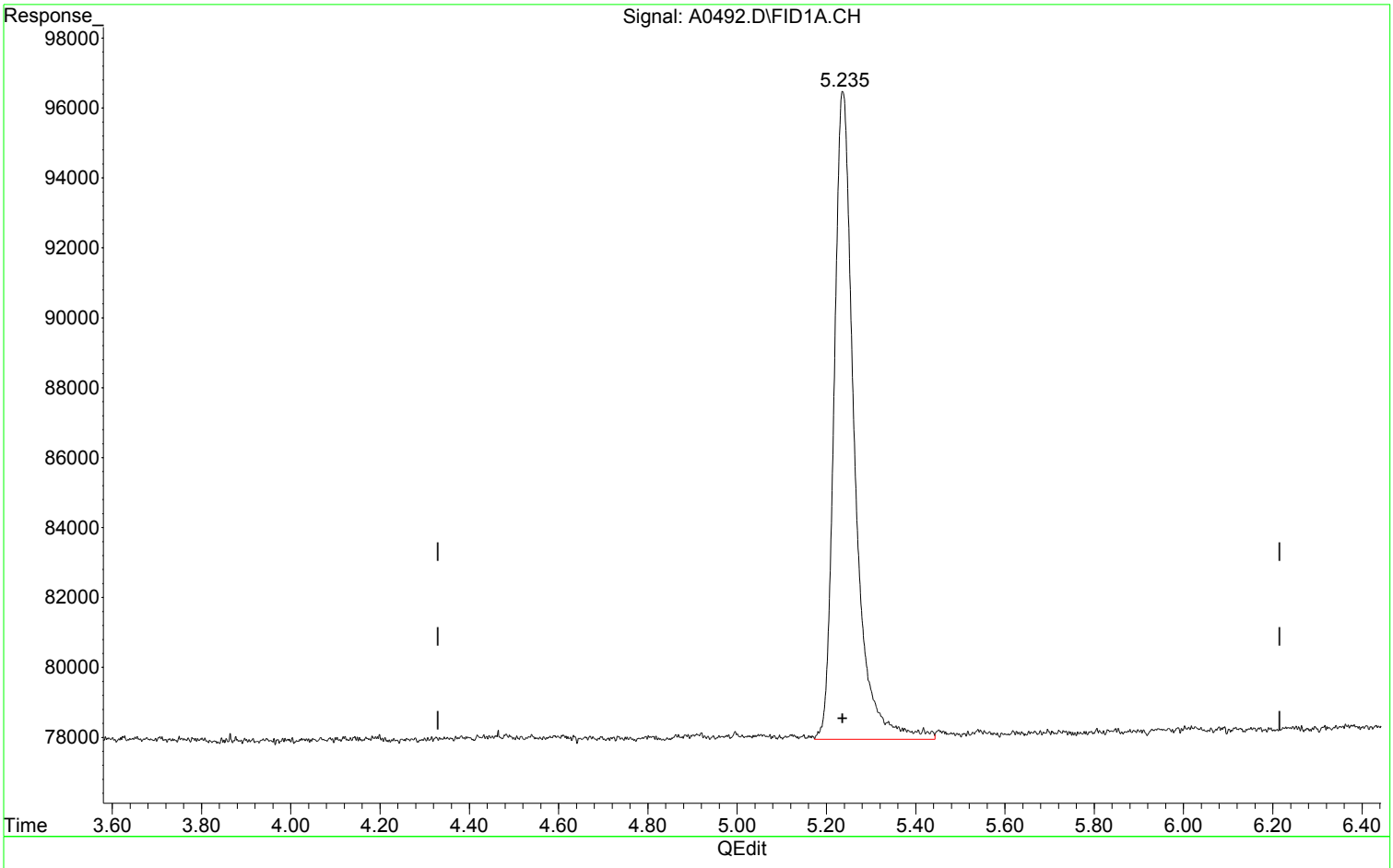
1st FJ 05/02/24
2nd AM 05/03/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0492.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:49 pm
Operator : F.NAEGLER
Sample : 10 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:58:10 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(5) Propane

5.235min 10.345 ug/L m

response 586565

Manual Integration:

After

Poor integration.

05/02/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.471	377393	6.147 ug/L
2)	Acetylene	2.226	204234	8.893 ug/L m
3)	Ethylene	2.420	167239	4.203 ug/L m
4)	Ethane	2.568	258223	4.795 ug/L m
5)	Propane	5.234	260025	4.586 ug/L m

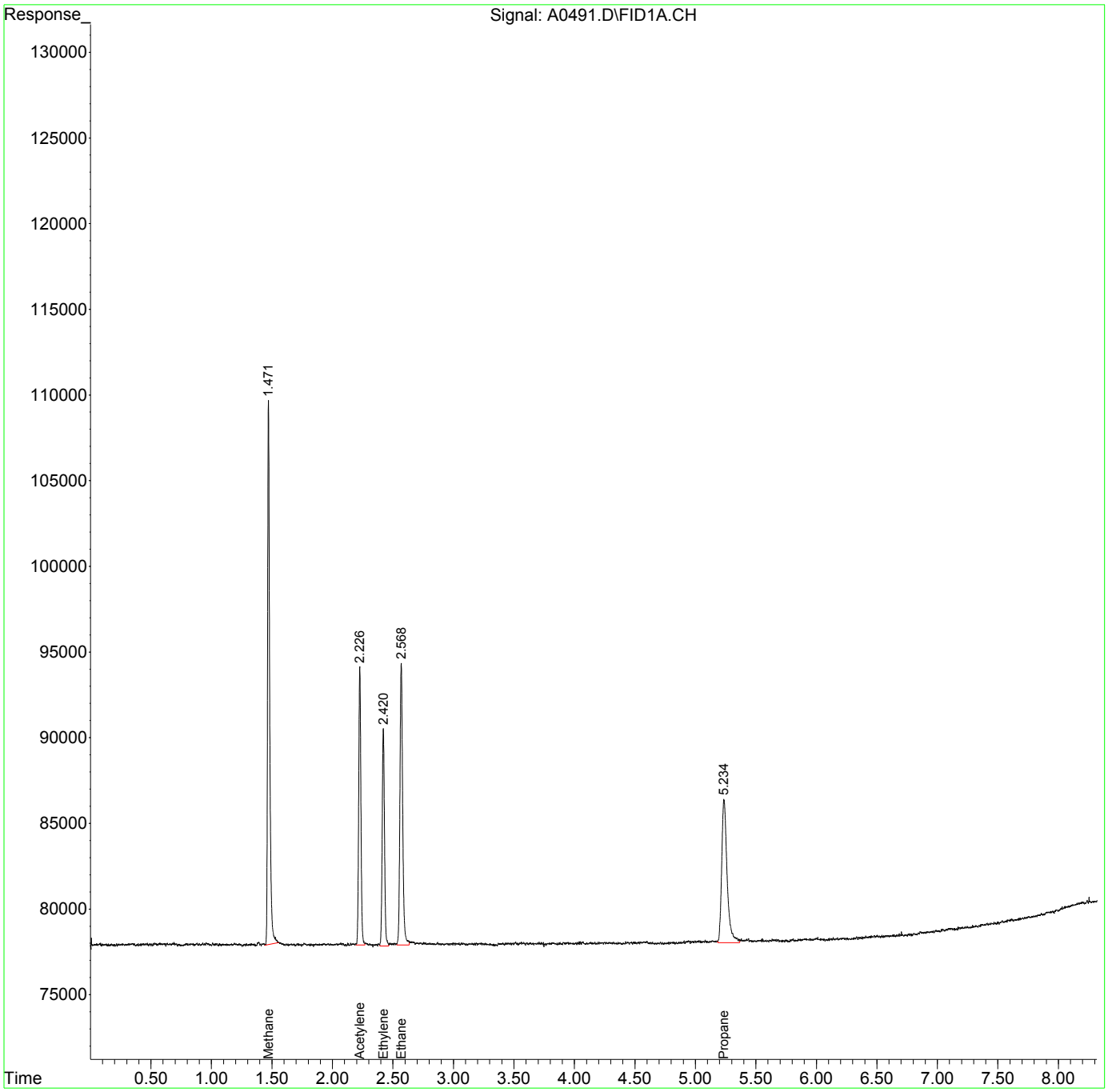
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

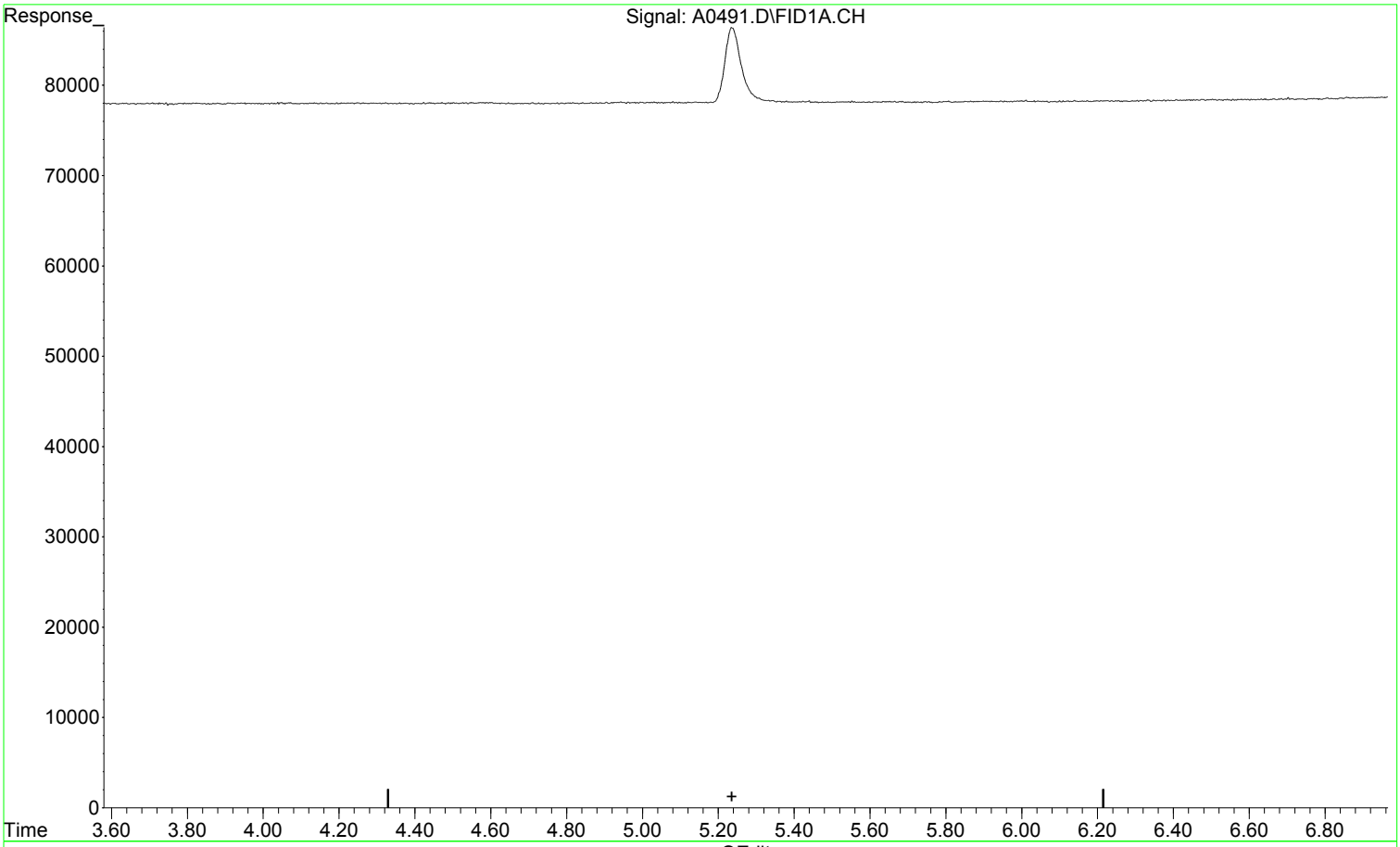


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(5) Propane

5.236min 0.000 ug/L

response 0

Manual Integration:

Before

05/02/24

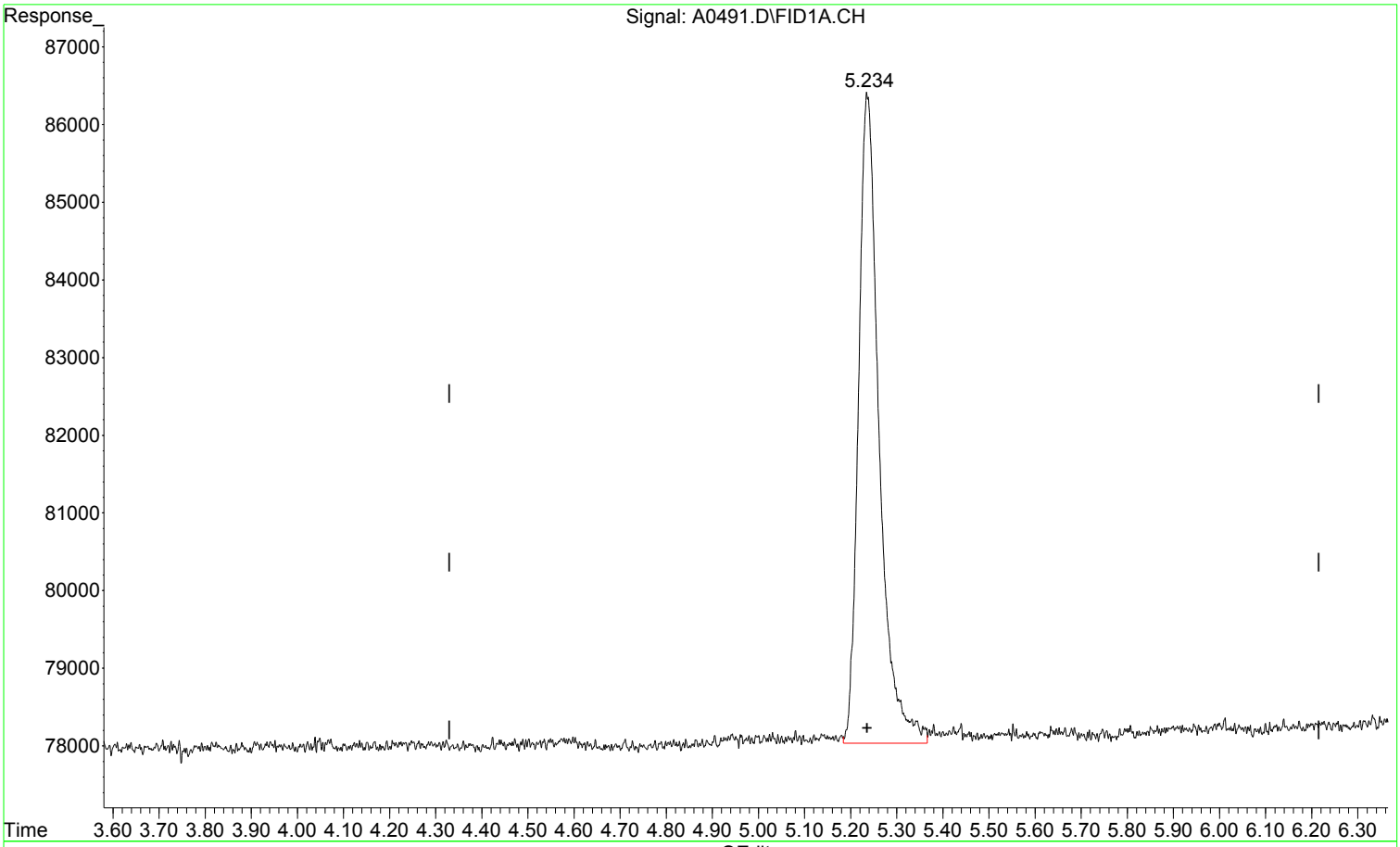
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(5) Propane
5.234min 4.586 ug/L m
response 260025

Manual Integration:
After
Peak not found.
05/02/24

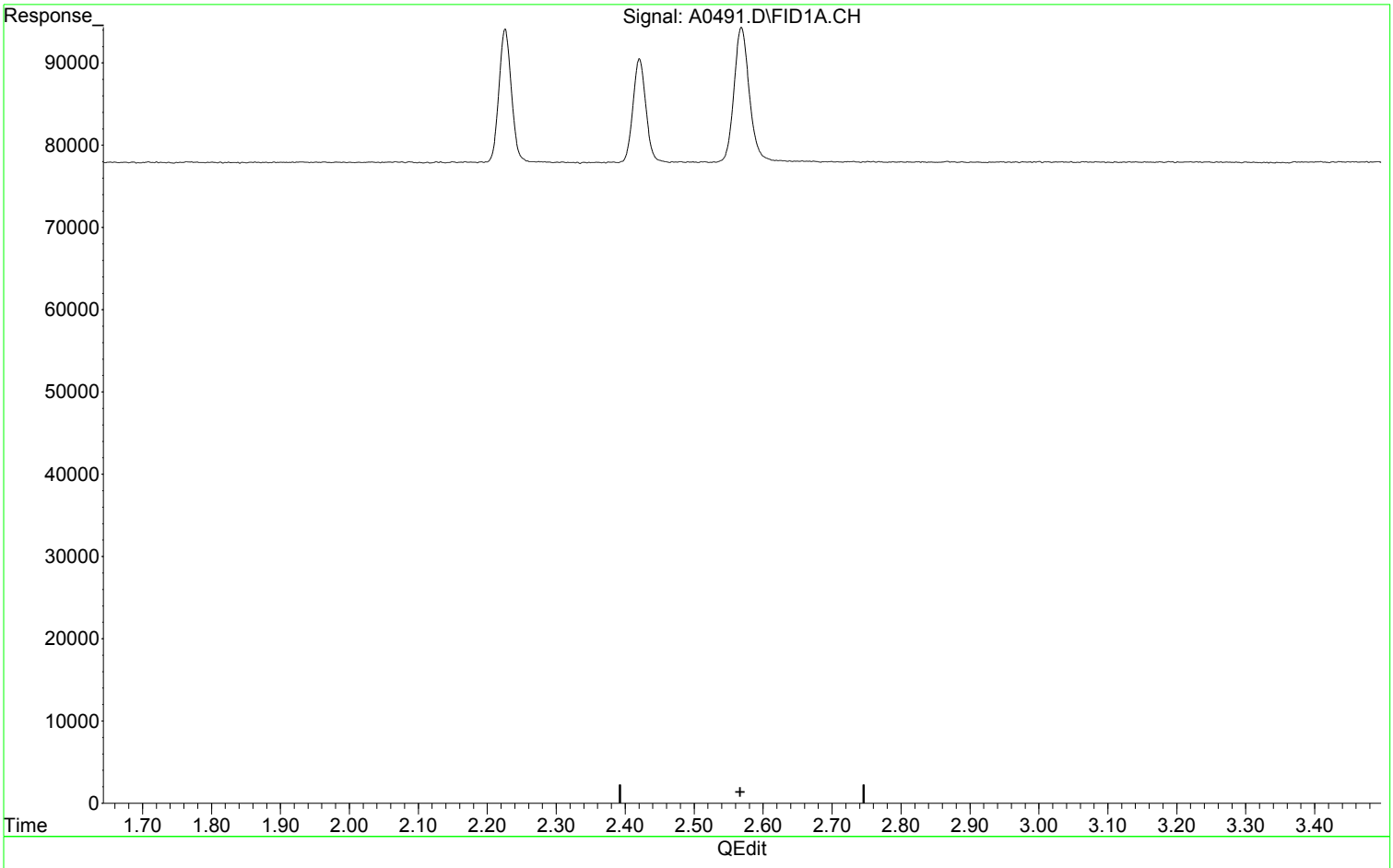
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.567min 0.000 ug/L
response 0

Manual Integration:
Before

05/02/24

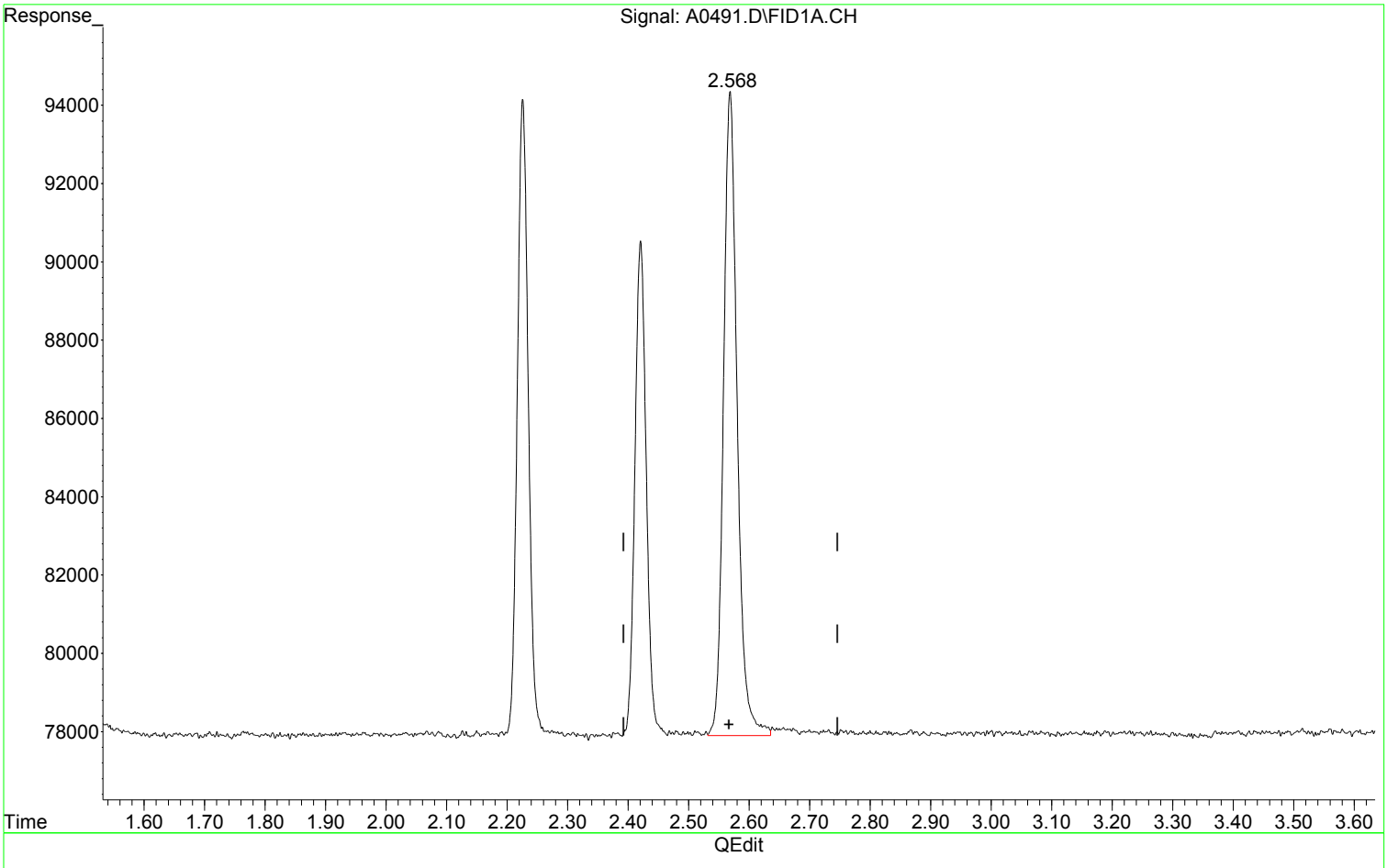
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.568min 4.795 ug/L m
response 258223

Manual Integration:
After
Peak not found.
05/02/24

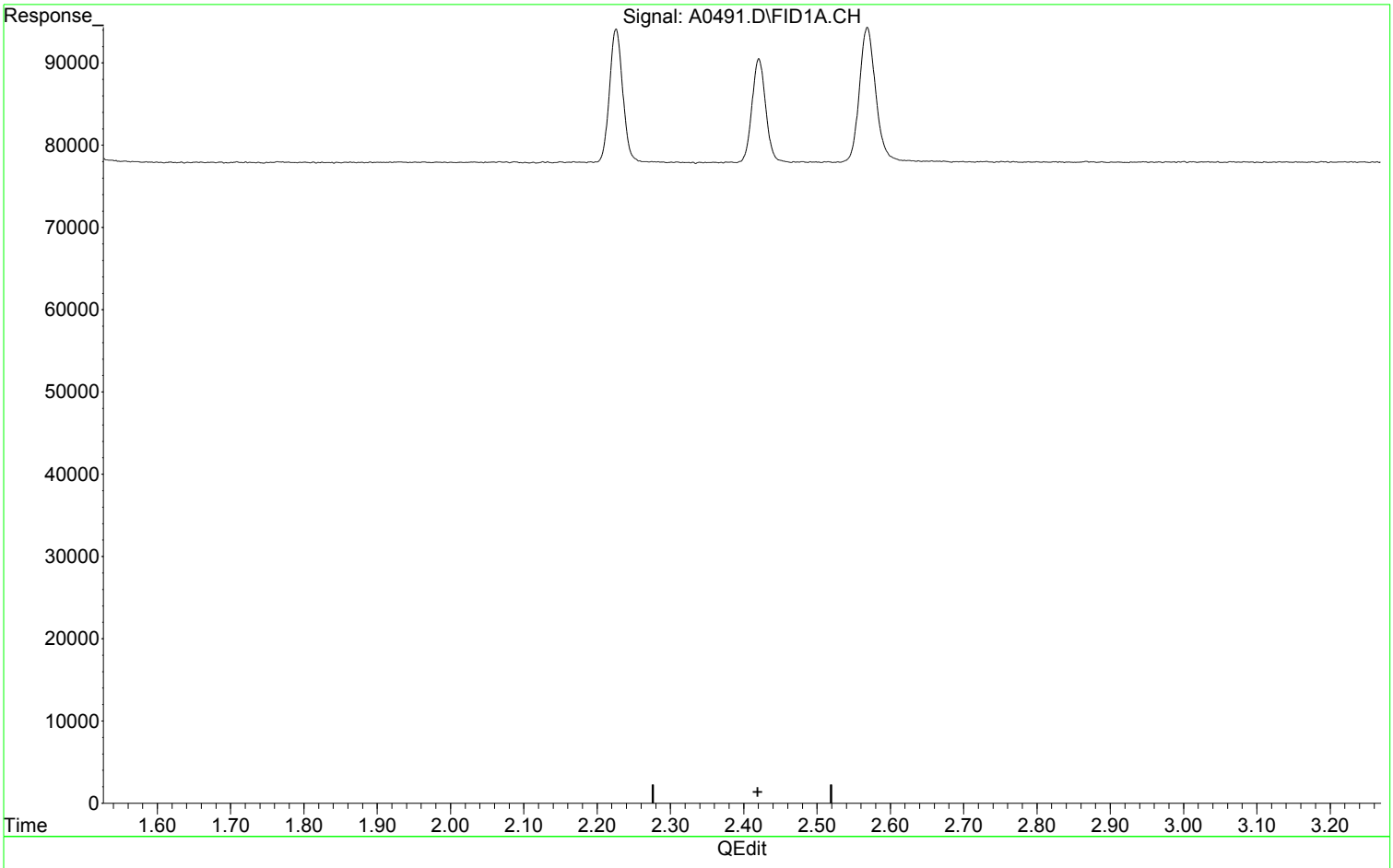
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(3) Ethylene
2.419min 0.000 ug/L
response 0

Manual Integration:
Before

05/02/24

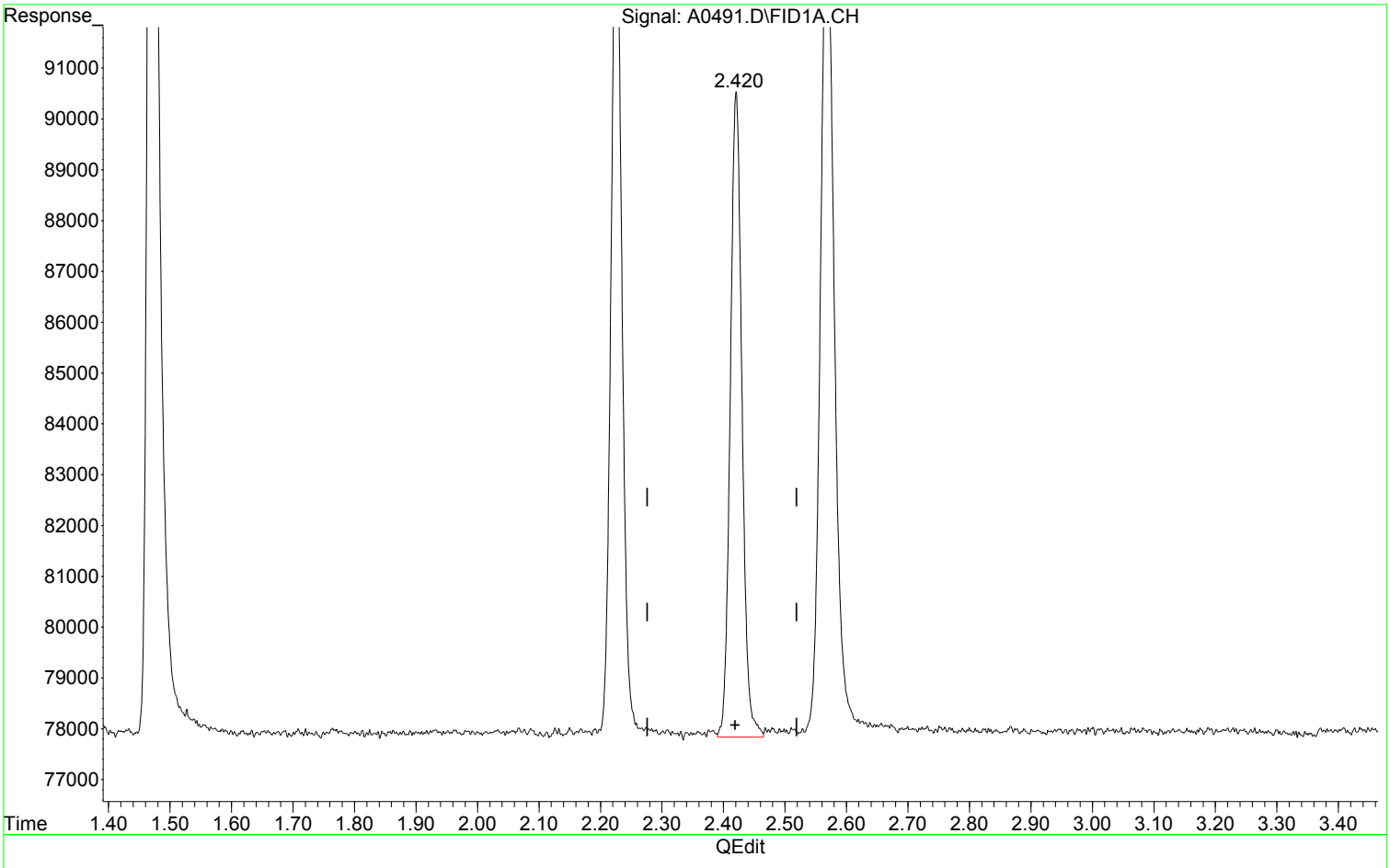
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(3) Ethylene
2.420min 4.203 ug/L m
response 167239

Manual Integration:
After
Peak not found.
05/02/24

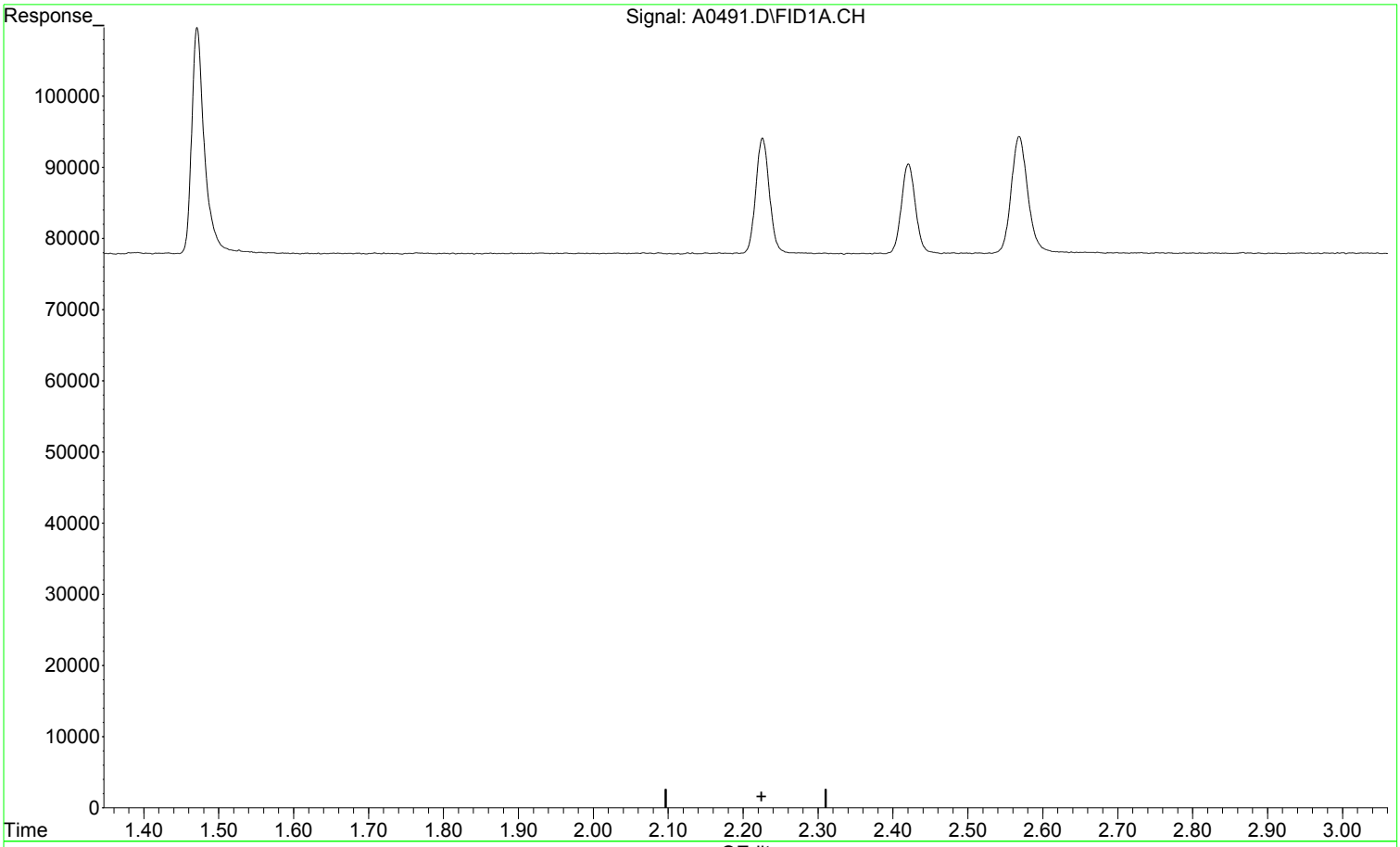
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(2) Acetylene
2.225min 0.000 ug/L
response 0

Manual Integration:
Before

05/02/24

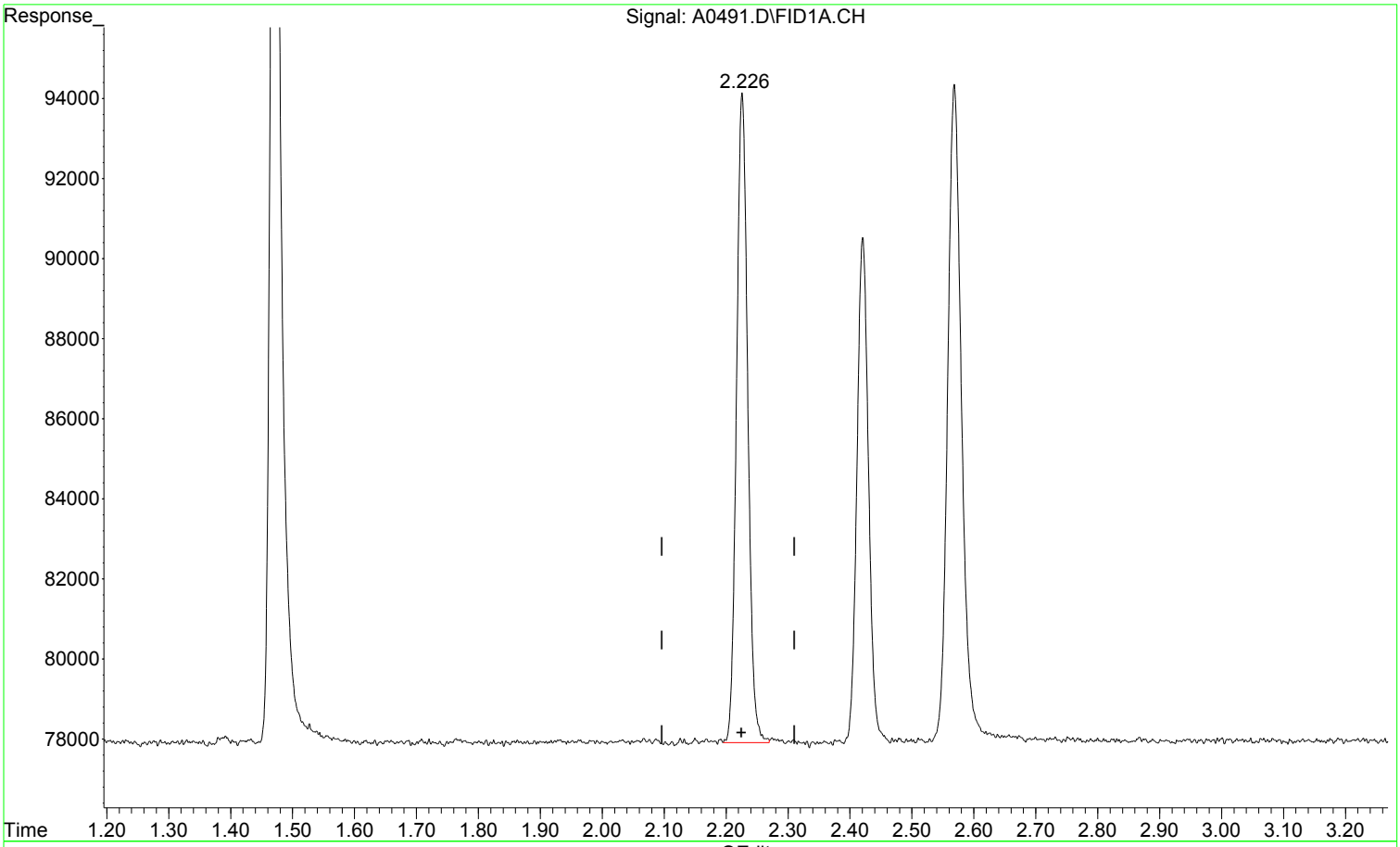
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(2) Acetylene
2.226min 8.893 ug/L m
response 204234

Manual Integration:
After
Peak not found.
05/02/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.481	296341	4.971 ug/L m
2)	Acetylene	0.000	0	N.D. ug/L
3)	Ethylene	0.000	0	N.D. ug/L
4)	Ethane	2.575	26859	0.496 ug/L m
5)	Propane	0.000	0	N.D. ug/L

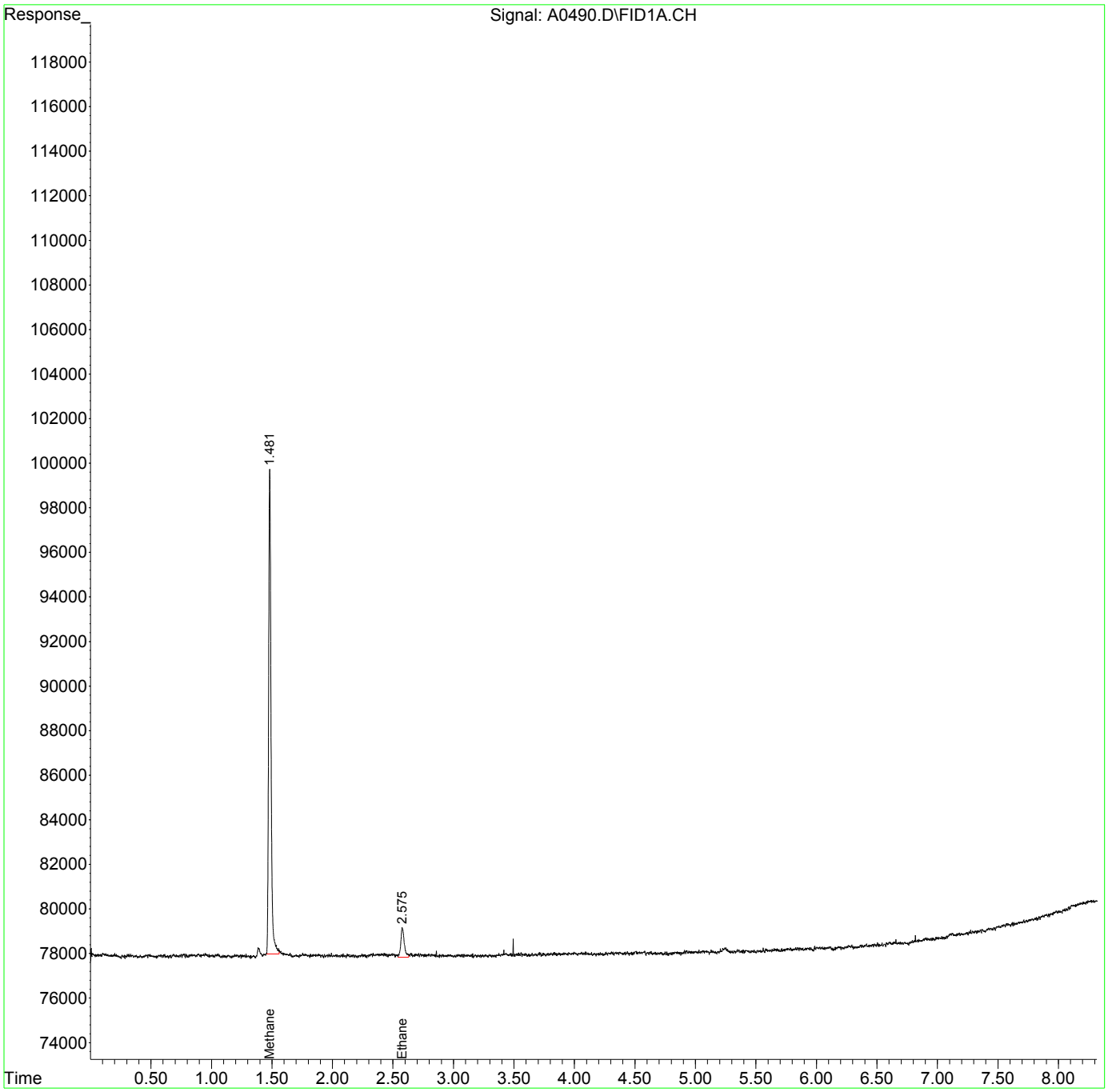
(f)=RT Delta > 1/2 Window (m)=manual int.

1st FJ 05/02/24
2nd AM 05/03/24

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

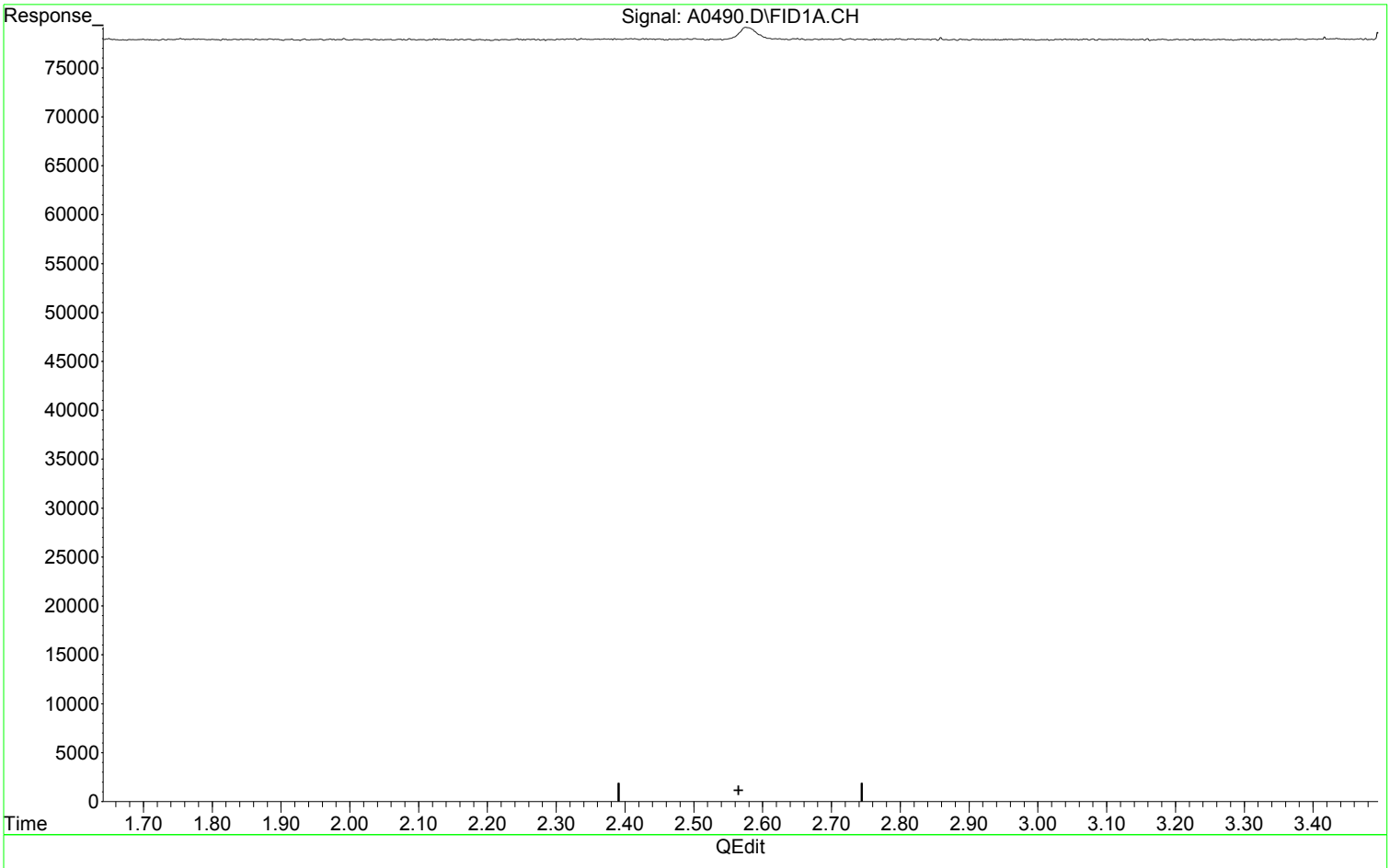


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane

2.565min 0.000 ug/L

response 0

Manual Integration:

Before

05/02/24

(+) = Expected Retention Time

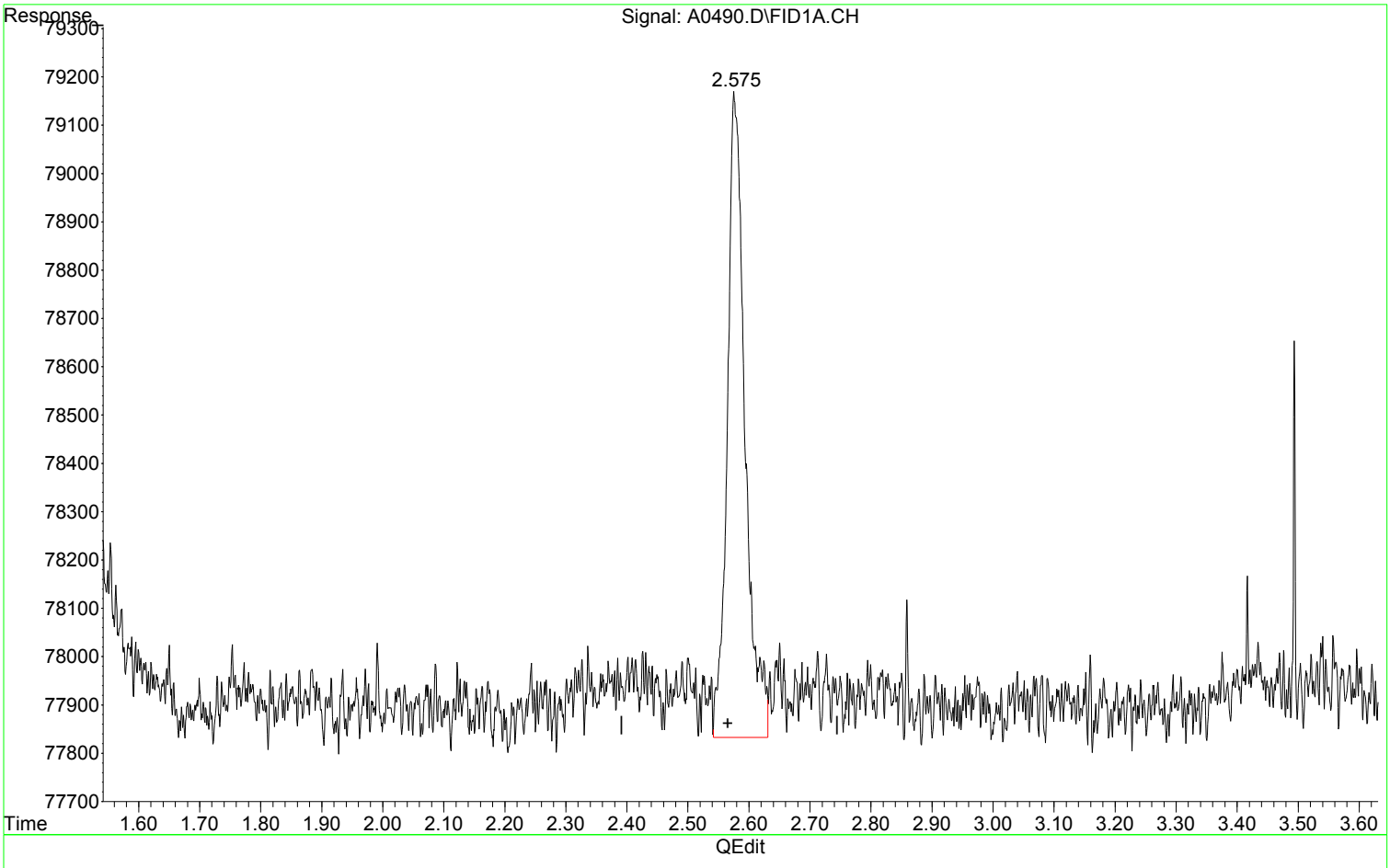
1st FW 05/02/24
2nd AM 05/03/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane

2.575min 0.496 ug/L m

response 26859

Manual Integration:

After

Peak not found.

05/02/24

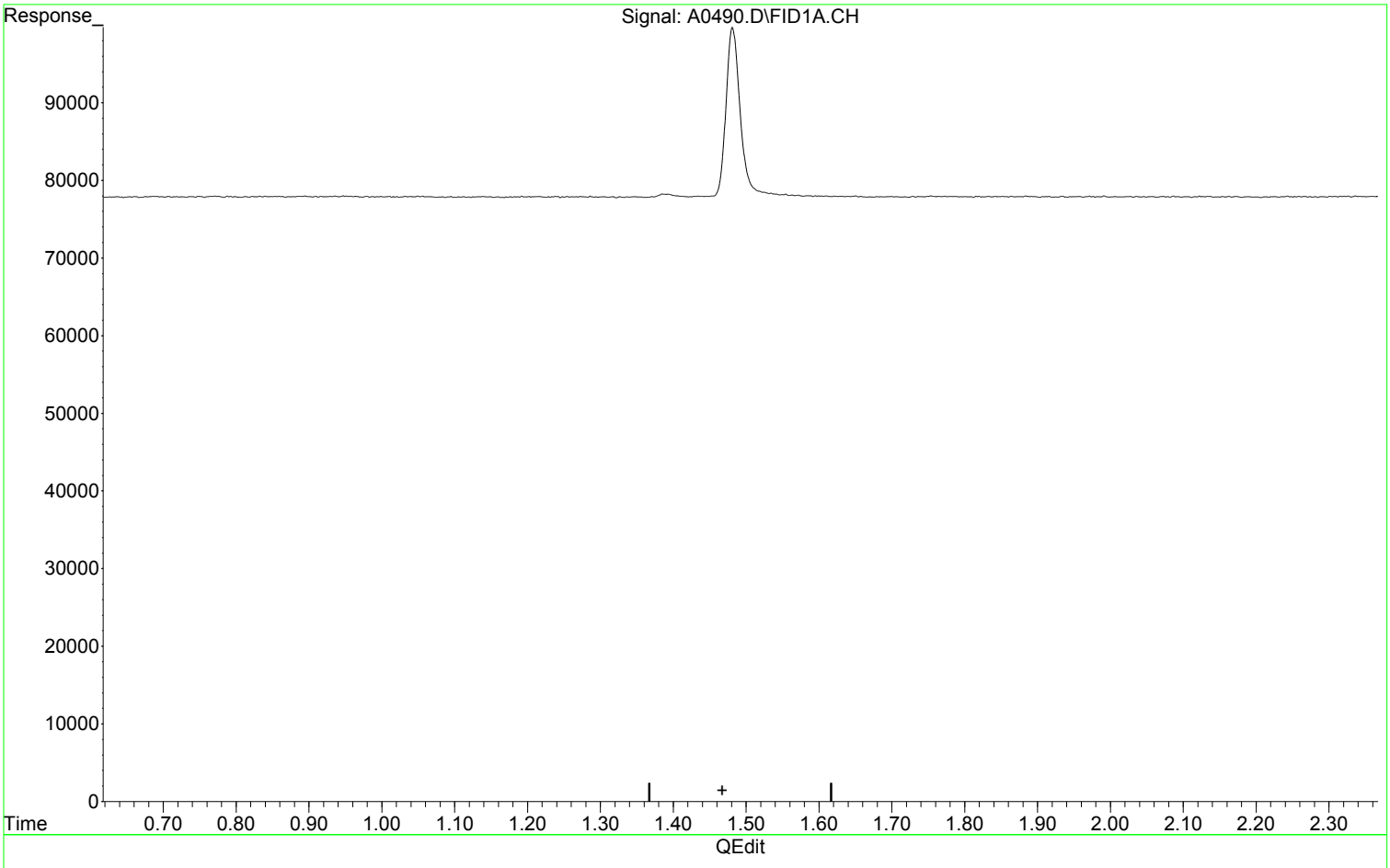
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.467min 0.000 ug/L

response 0

Manual Integration:

Before

05/02/24

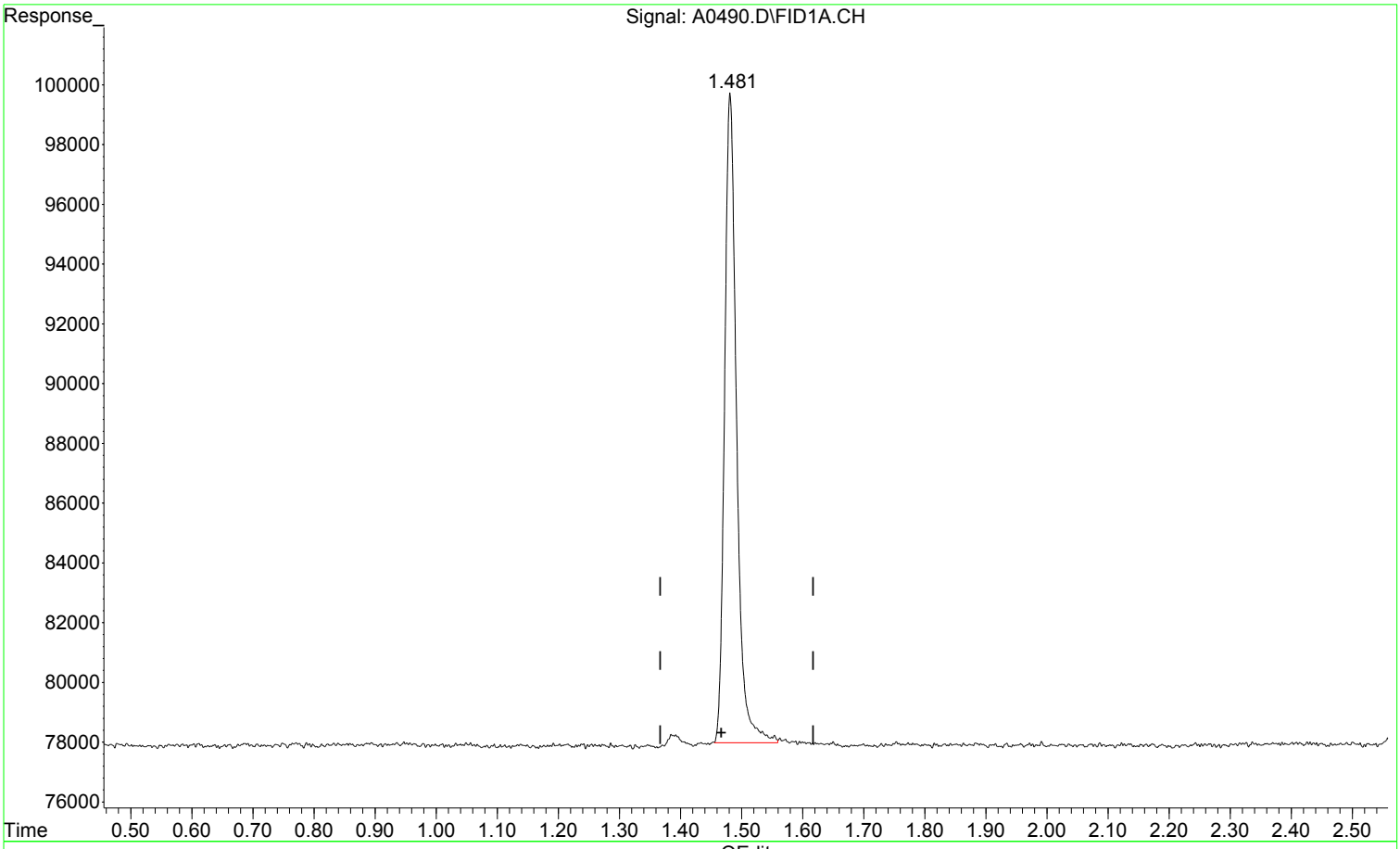
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.481min 4.971 ug/L m

response 296341

Manual Integration:

After

Peak not found.

05/02/24

(+) = Expected Retention Time

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408139
Project: Olean OU3 12-Month Sampling **Calibration Date:** 5/2/2024

Initial Calibration Summary
Dissolved Gases by GC/FID

Calibration ID: RC2400082 **Signal ID:** 1
Instrument ID: R-GC-70

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC2400082-01	5 PPB STD	I:\ACQUDATA\GC-70\DATA\050224\A0491.D	05/02/2024 14:37
02	RC2400082-02	10 PPB STD	I:\ACQUDATA\GC-70\DATA\050224\A0492.D	05/02/2024 14:49
03	RC2400082-03	50 PPB STD	I:\ACQUDATA\GC-70\DATA\050224\A0493.D	05/02/2024 15:00
04	RC2400082-04	100 PPB STD	I:\ACQUDATA\GC-70\DATA\050224\A0494.D	05/02/2024 15:12
05	RC2400082-05	250 PPB STD	I:\ACQUDATA\GC-70\DATA\050224\A0495.D	05/02/2024 15:25
06	RC2400082-06	375 PPB STD	I:\ACQUDATA\GC-70\DATA\050224\A0496.D	05/02/2024 15:37
07	RC2400082-07	500 PPB STD	I:\ACQUDATA\GC-70\DATA\050224\A0497.D	05/02/2024 15:49

Analyte

Ethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.200	4.966E4	02	10.400	5.408E4	03	52.100	5.984E4	04	104.100	5.111E4
05	260.300	5.4E4	06	390.500	5.572E4	07	520.700	5.433E4			

Ethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	4.900	3.413E4	02	9.700	3.86E4	03	48.600	4.779E4	04	97.100	3.804E4
05	242.800	4.372E4	06	364.300	4.439E4	07	485.700	4.276E4			

Methane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.200	7.258E4	02	10.500	6.924E4	03	52.500	6.124E4	04	104.900	5.165E4
05	262.300	5.334E4	06	393.500	5.562E4	07	524.600	5.365E4			

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408139
Project: Olean OU3 12-Month Sampling **Calibration Date:** 5/2/2024

Initial Calibration Summary
Dissolved Gases by GC/FID

Calibration ID: RC2400082 **Signal ID:** 1
Instrument ID: R-GC-70

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Ethane	TRG	Average RF	% RSD	6.1	≤20	5.41E4	
Ethene	TRG	Average RF	% RSD	11.2	≤20	4.135E4	
Methane	TRG	Average RF	% RSD	14.0	≤20	5.961E4	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408139
Project: Olean OU3 12-Month Sampling **Calibration Date:** 5/2/2024

Initial Calibration Verification Summary
Dissolved Gases by GC/FID

Calibration ID: RC2400082 **Signal ID:** 1
Instrument ID: R-GC-70

#	Lab Code	Sample Name	File Location	Acquisition Date
08	RC2400082-08	250 PPB ICV	I:\ACQUDATA\GC-70\DATA\050224\A0499.D	05/02/2024 16:17

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Ethane	260	267	5.41E4	5.56E4	2.76	±15	Average RF
Ethene	243	254	4.135E4	4.318E4	4.42	±15	Average RF
Methane	262	240	5.961E4	5.455E4	-8.499	±15	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	09/02/24 09:57

Continuing Calibration Verification (CCV) Summary
Dissolved Gases by GC/FID

Analysis Method:	RSK 175	**Calibration Date:**	5/2/2024
File ID:	I:\ACQUDATA\GC-70\DATA\090224\A0854.D\	**Calibration ID:**	RC2400082
Signal ID:	1	**Analysis Lot:**	852664
		Units:	ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Ethane	260	254	5.41E4	5.271E4	97.4	NA	85-115	Average RF
Ethene	243	228	4.135E4	3.886E4	94.0	NA	85-115	Average RF
Methane	262	234	5.961E4	5.312E4	89.1	NA	85-115	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	09/02/24 13:27

Continuing Calibration Verification (CCV) Summary
Dissolved Gases by GC/FID

Analysis Method:	RSK 175	**Calibration Date:**	5/2/2024
File ID:	I:\ACQUDATA\GC-70\DATA\090224\A0870.D\	**Calibration ID:**	RC2400082
Signal ID:	1	**Analysis Lot:**	852664
		Units:	ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Ethane	260	255	5.41E4	5.298E4	97.9	NA	85-115	Average RF
Ethene	243	238	4.135E4	4.055E4	98.1	NA	85-115	Average RF
Methane	262	234	5.961E4	5.321E4	89.2	NA	85-115	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	09/02/24 15:09

Continuing Calibration Verification (CCV) Summary
Dissolved Gases by GC/FID

Analysis Method:	RSK 175	**Calibration Date:**	5/2/2024
File ID:	I:\ACQUDATA\GC-70\DATA\090224\A0878.D\	**Calibration ID:**	RC2400082
Signal ID:	1	**Analysis Lot:**	852664
		Units:	ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Ethane	260	261	5.41E4	5.433E4	100	NA	85-115	Average RF
Ethene	243	248	4.135E4	4.217E4	102	NA	85-115	Average RF
Methane	262	240	5.961E4	5.454E4	91.5	NA	85-115	Average RF

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408139
Project: Olean OU3 12-Month Sampling/300-082

Analysis Run Log
Dissolved Gases by GC/FID

Analysis Method: RSK 175 **Analysis Lot:**852664
Instrument ID:R-GC-70

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\GC-70\DATA\090224\A0854.D\	Continuing Calibration Verification	RQ2410862-01	9/2/2024	09:57:00	
I:\ACQUDATA\GC-70\DATA\090224\A0855.D\	Method Blank	RQ2410862-02	9/2/2024	10:09:00	
I:\ACQUDATA\GC-70\DATA\090224\A0856.D\	Lab Control Sample	RQ2410862-03	9/2/2024	10:21:00	
I:\ACQUDATA\GC-70\DATA\090224\A0857.D\	OLN-RU011-F009	R2408139-001	9/2/2024	10:46:00	
I:\ACQUDATA\GC-70\DATA\090224\A0858.D\	OLN-RU009-F009	R2408139-002	9/2/2024	10:58:00	
I:\ACQUDATA\GC-70\DATA\090224\A0859.D\	OLN-RU-016-F009	R2408139-003	9/2/2024	11:10:00	
I:\ACQUDATA\GC-70\DATA\090224\A0860.D\	OLN-FD001-D009	R2408139-004	9/2/2024	11:23:00	
I:\ACQUDATA\GC-70\DATA\090224\A0861.D\	OLN-RU015-F009	R2408139-005	9/2/2024	11:36:00	
I:\ACQUDATA\GC-70\DATA\090224\A0862.D\	OLN-RU010-F009	R2408139-007	9/2/2024	11:47:00	
I:\ACQUDATA\GC-70\DATA\090224\A0863.D\	OLN-RU008-F009	R2408139-008	9/2/2024	12:00:00	
I:\ACQUDATA\GC-70\DATA\090224\A0864.D\	OLN-RU008-F009 MS	RQ2410862-04	9/2/2024	12:12:00	
I:\ACQUDATA\GC-70\DATA\090224\A0865.D\	OLN-RU008-F009 DMS	RQ2410862-05	9/2/2024	12:24:00	
I:\ACQUDATA\GC-70\DATA\090224\A0866.D\	OLN-RU27A-F009	R2408139-010	9/2/2024	12:35:00	
I:\ACQUDATA\GC-70\DATA\090224\A0867.D\	OLN-RU019-F009	R2408139-012	9/2/2024	12:49:00	
I:\ACQUDATA\GC-70\DATA\090224\A0868.D\	OLN-RU019-F009	R2408139-012	9/2/2024	13:02:00	
I:\ACQUDATA\GC-70\DATA\090224\A0870.D\	Continuing Calibration Verification	RQ2410862-06	9/2/2024	13:27:00	
I:\ACQUDATA\GC-70\DATA\090224\A0871.D\	OLN-FB003-B009	R2408139-013	9/2/2024	13:41:00	
I:\ACQUDATA\GC-70\DATA\090224\A0872.D\	ZZZZZZZ	ZZZZZZZ	9/2/2024	13:54:00	
I:\ACQUDATA\GC-70\DATA\090224\A0873.D\	ZZZZZZZ	ZZZZZZZ	9/2/2024	14:07:00	
I:\ACQUDATA\GC-70\DATA\090224\A0874.D\	ZZZZZZZ	ZZZZZZZ	9/2/2024	14:19:00	
I:\ACQUDATA\GC-70\DATA\090224\A0875.D\	ZZZZZZZ	ZZZZZZZ	9/2/2024	14:30:00	
I:\ACQUDATA\GC-70\DATA\090224\A0876.D\	ZZZZZZZ	ZZZZZZZ	9/2/2024	14:43:00	
I:\ACQUDATA\GC-70\DATA\090224\A0877.D\	ZZZZZZZ	ZZZZZZZ	9/2/2024	14:55:00	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408139
Project: Olean OU3 12-Month Sampling/300-082

Analysis Run Log
Dissolved Gases by GC/FID

Analysis Method: RSK 175 **Analysis Lot:**852664
Instrument ID:R-GC-70

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\GC-70\DATA\090224 \A0878.D\	Continuing Calibration Verification	RQ2410862-07	9/2/2024	15:09:00	

Analysis: RSK.175 | Analyst: F. Naglen | Run Method: RSK.M

Date: 9/2/24 | Data Path: J:\Acqudata\70 \Data\ 090224 | RSK 050224.M

Instr. GC-70 | LIMS Run#: 852664

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
	BLK								A0851	Y	
	BLK								52	Y	
	CCV								53	(N)	
	CCV								54	Y	
	MBLK								55	Y	
	LCS								56	Y	
	R2408139-001	1.0		—	979	4	1	<2	57	Y	
	-002	1.0		—			1	<2	58	Y	
	-003	1.0		—			1	<2	59	Y	
	-004	1.0		—			1	<2	60	Y	
	-005	1.0		—			1	<2	61	Y	
	-007	1.0		—			1	<2	62	Y	
	-008	1.0		—			1	<2	63	Y	
	-008MS	1.0		—			2	<2	64	Y	
	-008MSD	1.0		—			3	<2	65	Y	
	-010	20.0	5mL	—			1	<2	66	Y	
	-012	10.0	10mL	—			1	<2	67	(Y)	Rpt 1/20 DL
	-012	20.0	5mL	—			1	<2	68	Y	
	CCV								69	(N)	
	CCV								70	Y	
	R2408139-013	1.0		—	979	4	1	<2	71	Y	
	R2408140-002	1.0		—			1	<2	72	Y	
	-003	2.5	40mL	—			1	<2	73	Y	
	-004	1.0		—			1	<2	74	Y	
	-007	1.0		—			1	<2	75	Y	
	-008	1.0		—			1	<2	76	Y	
	-010	1.0		—			1	<2	77	Y	
	CCV								78	Y	
			FN	9/2/24							

All samples = _____mL + _____uL Surrogate _____mL purged

Primary : 234908 - 100mL/42.5mL (CCV)
Primary :
Primary :
Primary :

Secondary : 234909 - 5mL/42.5mL (LCS)
Secondary : _____ - 100mL/42.5mL (MS/MSD)
Secondary :
Secondary :

Surrogate — : —

Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 18:08
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU011-F009	**Units:**	mg/L
Lab Code:	R2408139-001	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	09/04/24 23:41	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	09/04/24 23:41	
Propionic Acid	2.0 U	2.0	1.1	1	09/04/24 23:41	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 14:17
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU009-F009	**Units:**	mg/L
Lab Code:	R2408139-002	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	09/05/24 00:13	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	09/05/24 00:13	
Propionic Acid	2.0 U	2.0	1.1	1	09/05/24 00:13	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 16:05
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU-016-F009	**Units:**	mg/L
Lab Code:	R2408139-003	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**2.1**	1.0	0.56	1	09/05/24 00:44	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	09/05/24 00:44	
Propionic Acid	2.0 U	2.0	1.1	1	09/05/24 00:44	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 20:00
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FD001-D009	**Units:**	mg/L
Lab Code:	R2408139-004	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**2.2**	1.0	0.56	1	09/05/24 01:16	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	09/05/24 01:16	
Propionic Acid	2.0 U	2.0	1.1	1	09/05/24 01:16	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 08:42
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU015-F009	**Units:**	mg/L
Lab Code:	R2408139-005	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	09/05/24 01:48	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	09/05/24 01:48	
Propionic Acid	2.0 U	2.0	1.1	1	09/05/24 01:48	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 10:30
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU010-F009	**Units:**	mg/L
Lab Code:	R2408139-007	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**3.9**	1.0	0.56	1	09/05/24 02:20	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	09/05/24 02:20	
Propionic Acid	**11**	2.0	1.1	1	09/05/24 02:20	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 12:55
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU008-F009	**Units:**	mg/L
Lab Code:	R2408139-008	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	09/05/24 02:51	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	09/05/24 02:51	
Propionic Acid	2.0 U	2.0	1.1	1	09/05/24 02:51	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 16:20
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU27A-F009	**Units:**	mg/L
Lab Code:	R2408139-010	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**9.2**	1.0	0.56	1	09/05/24 04:59	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	09/05/24 04:59	
Propionic Acid	**9.3**	2.0	1.1	1	09/05/24 04:59	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 08:40
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU019-F009	**Units:**	mg/L
Lab Code:	R2408139-012	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**820**	5.0	2.8	5	09/16/24 19:42	
Butanoic Acid (Butyric Acid)	**490**	50	25	5	09/16/24 19:42	
Propionic Acid	**280**	10	5.5	5	09/16/24 19:42	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 10:01
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FB003-B009	**Units:**	mg/L
Lab Code:	R2408139-013	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	09/05/24 06:02	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	09/05/24 06:02	
Propionic Acid	2.0 U	2.0	1.1	1	09/05/24 06:02	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000206.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 23:41:23
Operator : AFelser
Sample : R2408139-001
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:14 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	0.000	0	N.D.	ppm	
5) T	Propionic Acid	0.000	0	N.D.	ppm	
6) T	Butyric Acid	0.000	0	N.D.	ppm	d

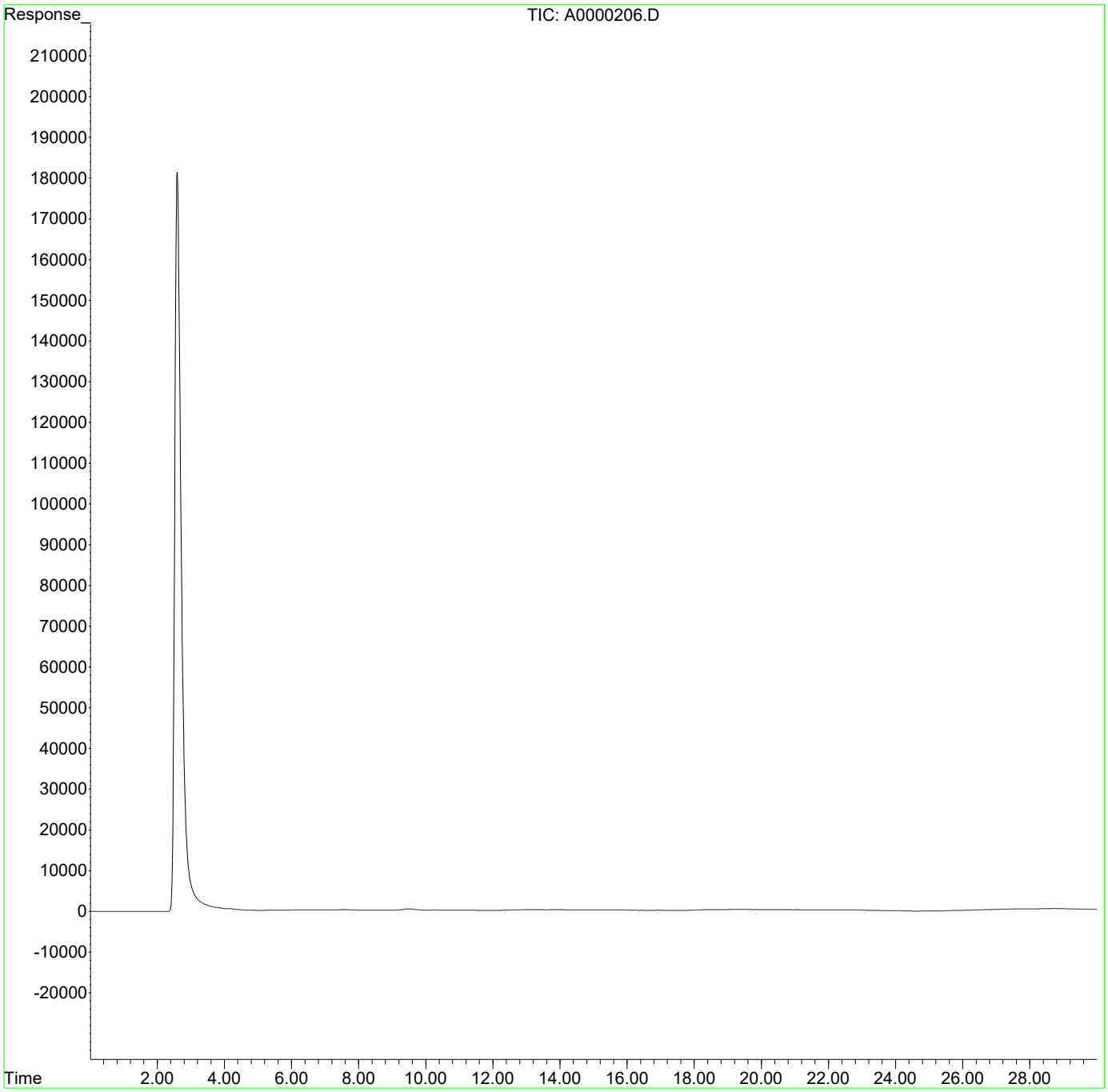
(f)=RT Delta > 1/2 Window (m)=manual int.

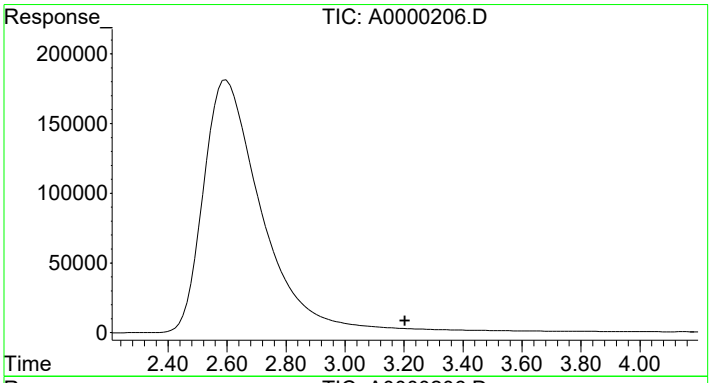
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000206.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 23:41:23
Operator : AFelser
Sample : R2408139-001
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:14 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

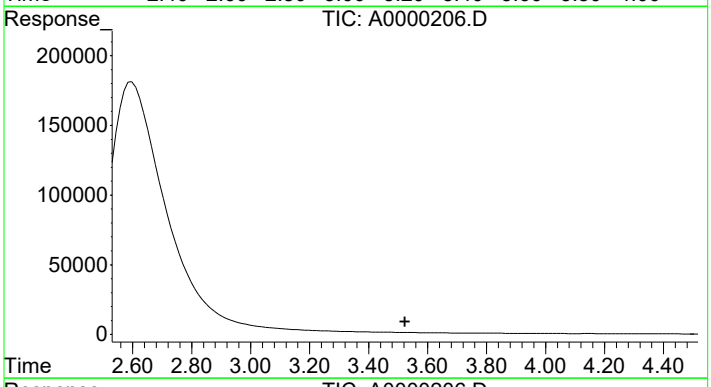
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





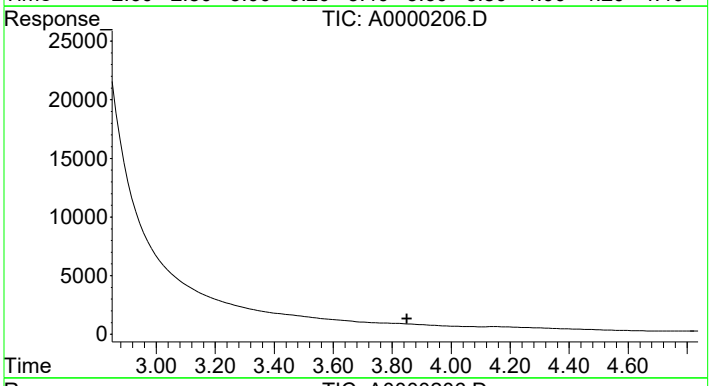
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.204 min
Response: 0
Conc: N.D.



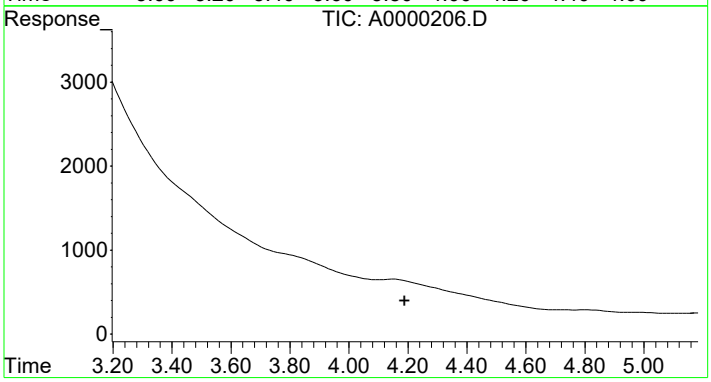
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.523 min
Response: 0
Conc: N.D.



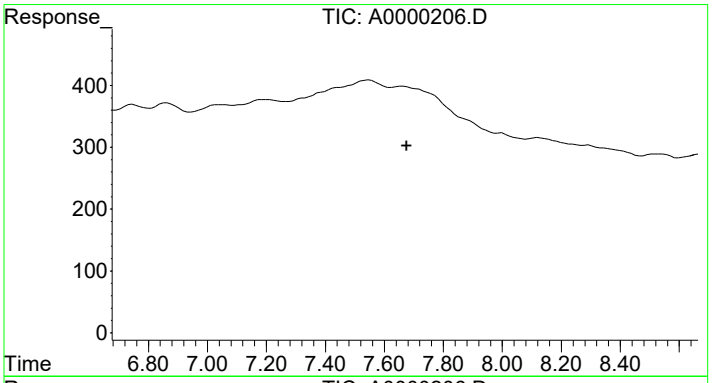
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.850 min
Response: 0
Conc: N.D.



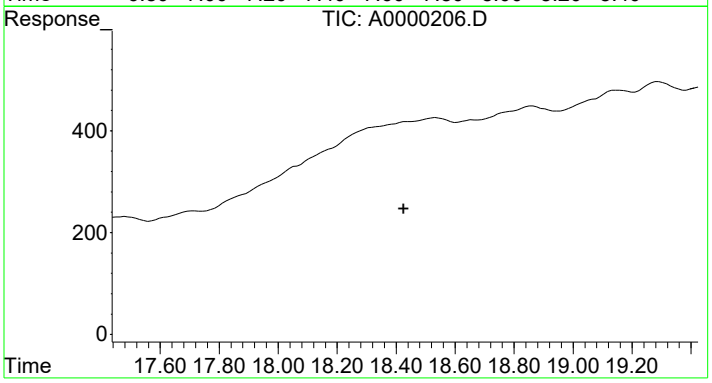
#4 Acetic Acid

R.T.: 0.000 min
Exp R.T. : 4.189 min
Response: 0
Conc: N.D.



#5 Propionic Acid

R.T.: 0.000 min
Exp R.T. : 7.676 min
Response: 0
Conc: N.D.



#6 Butyric Acid

R.T.: 0.000 min
Exp R.T. : 18.426 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000207.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 00:13:09
Operator : AFelser
Sample : R2408139-002
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:16 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	0.000	0	N.D.	ppm	
5) T	Propionic Acid	0.000	0	N.D.	ppm	
6) T	Butyric Acid	0.000	0	N.D.	ppm	d

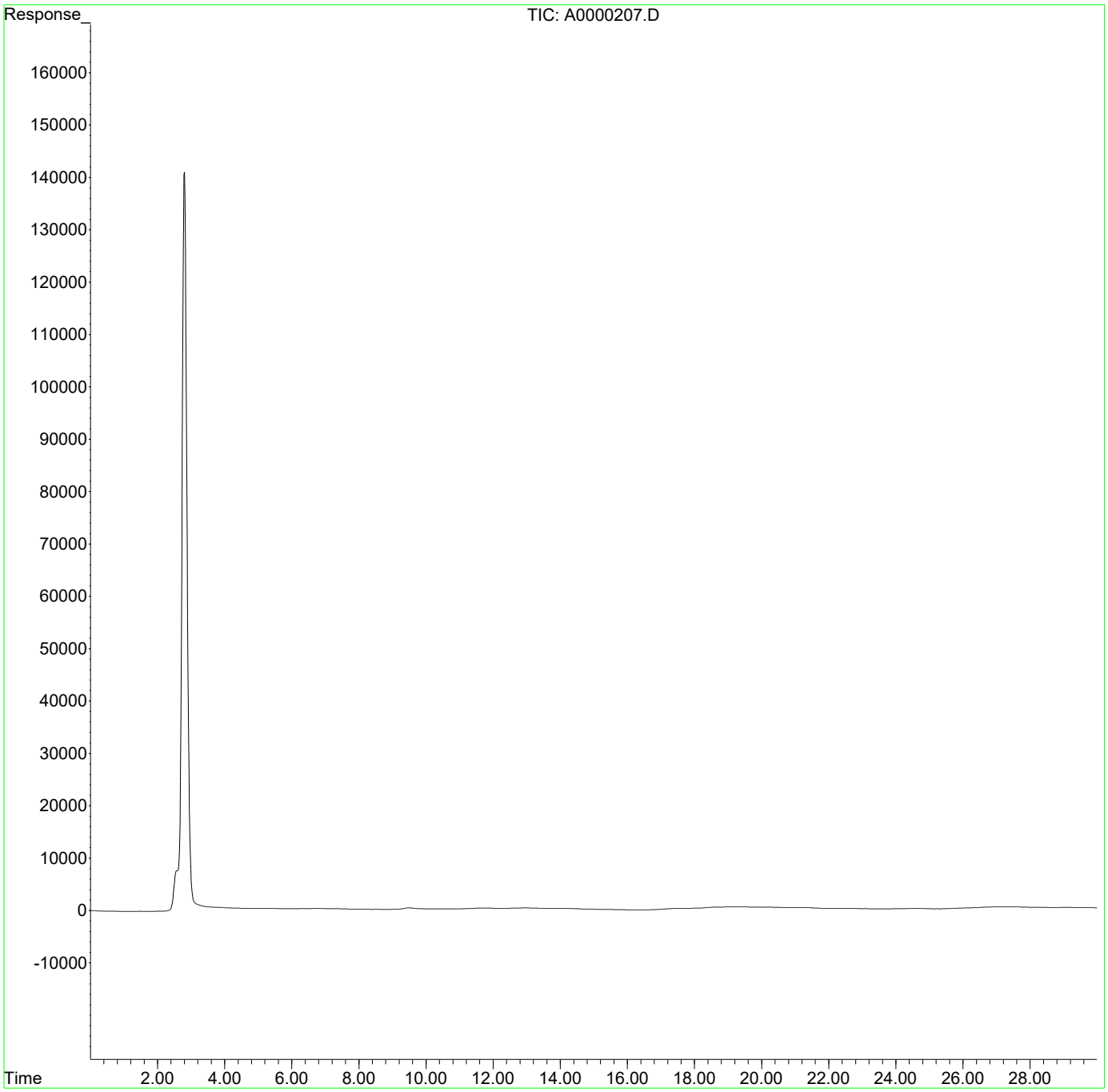
(f)=RT Delta > 1/2 Window (m)=manual int.

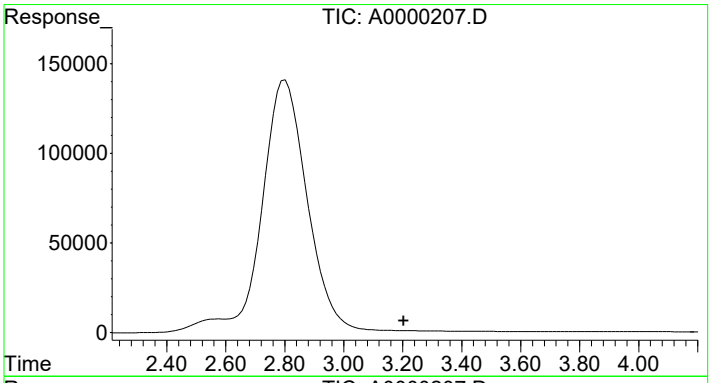
1st AF 09/09/24
2nd AM 09/09/24

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000207.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 00:13:09
Operator : AFelser
Sample : R2408139-002
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:16 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

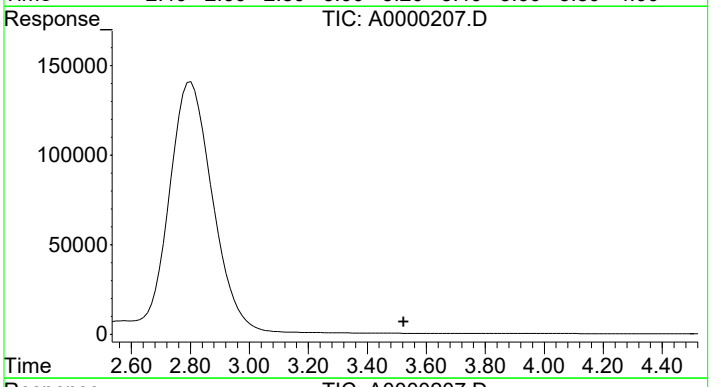
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





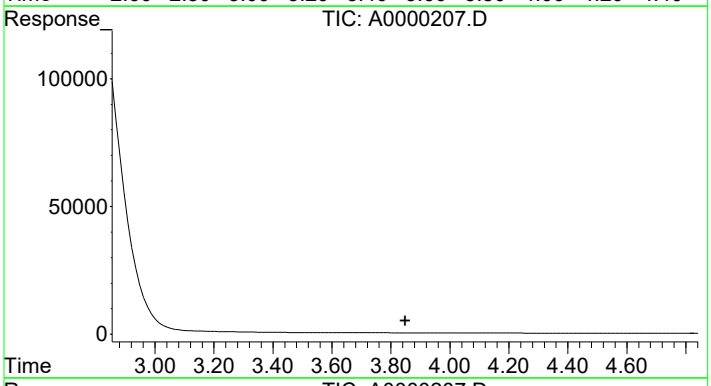
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.204 min
Response: 0
Conc: N.D.



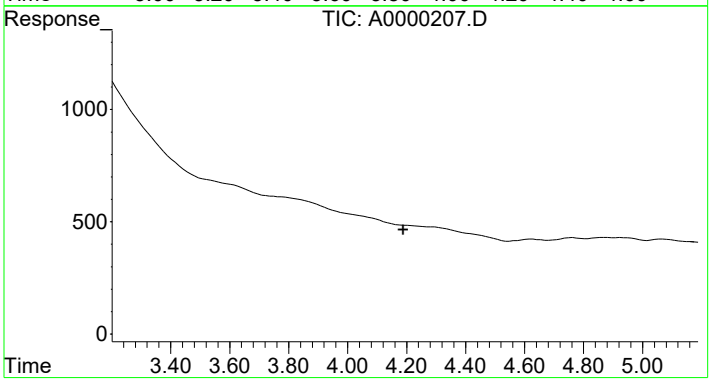
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.523 min
Response: 0
Conc: N.D.



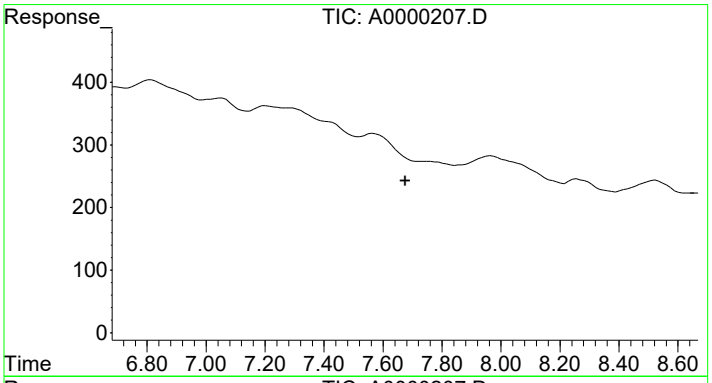
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.850 min
Response: 0
Conc: N.D.



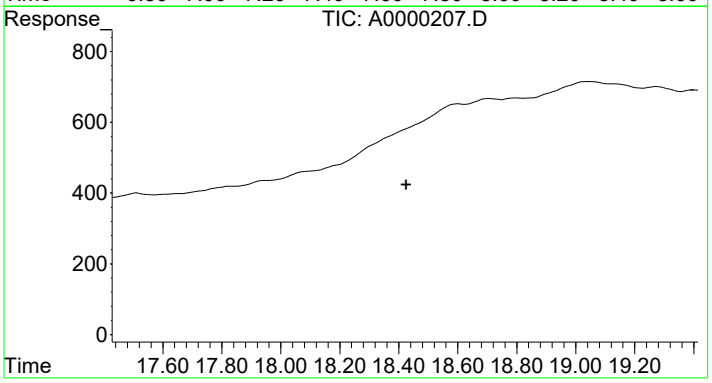
#4 Acetic Acid

R.T.: 0.000 min
Exp R.T. : 4.189 min
Response: 0
Conc: N.D.



#5 Propionic Acid

R.T.: 0.000 min
Exp R.T. : 7.676 min
Response: 0
Conc: N.D.



#6 Butyric Acid

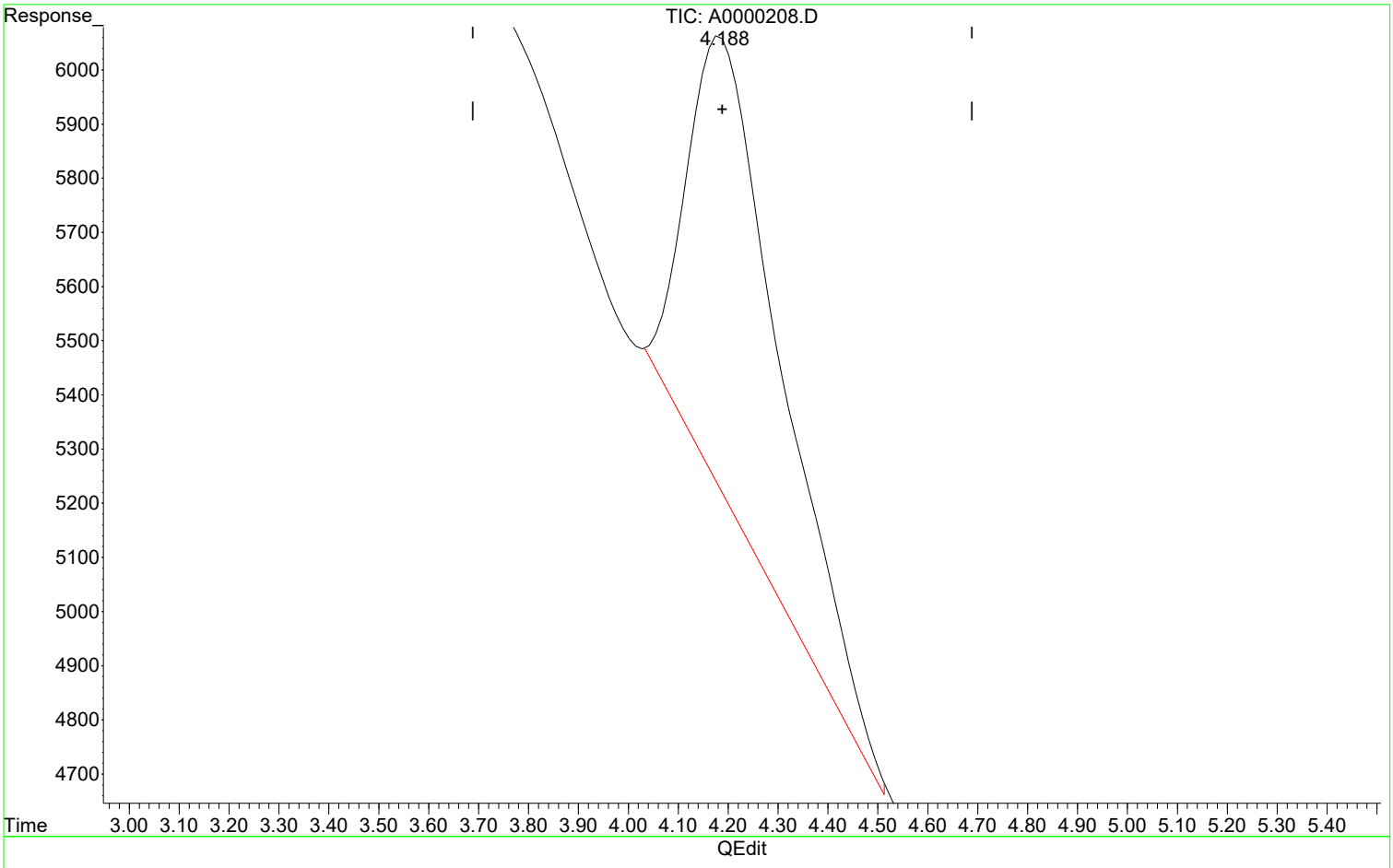
R.T.: 0.000 min
Exp R.T. : 18.426 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000208.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 00:44:55
Operator : AFelser
Sample : R2408139-003
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:18 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.188min 2.126 ppm m

response 110972

Manual Integration:

After

Poor integration.

09/09/24

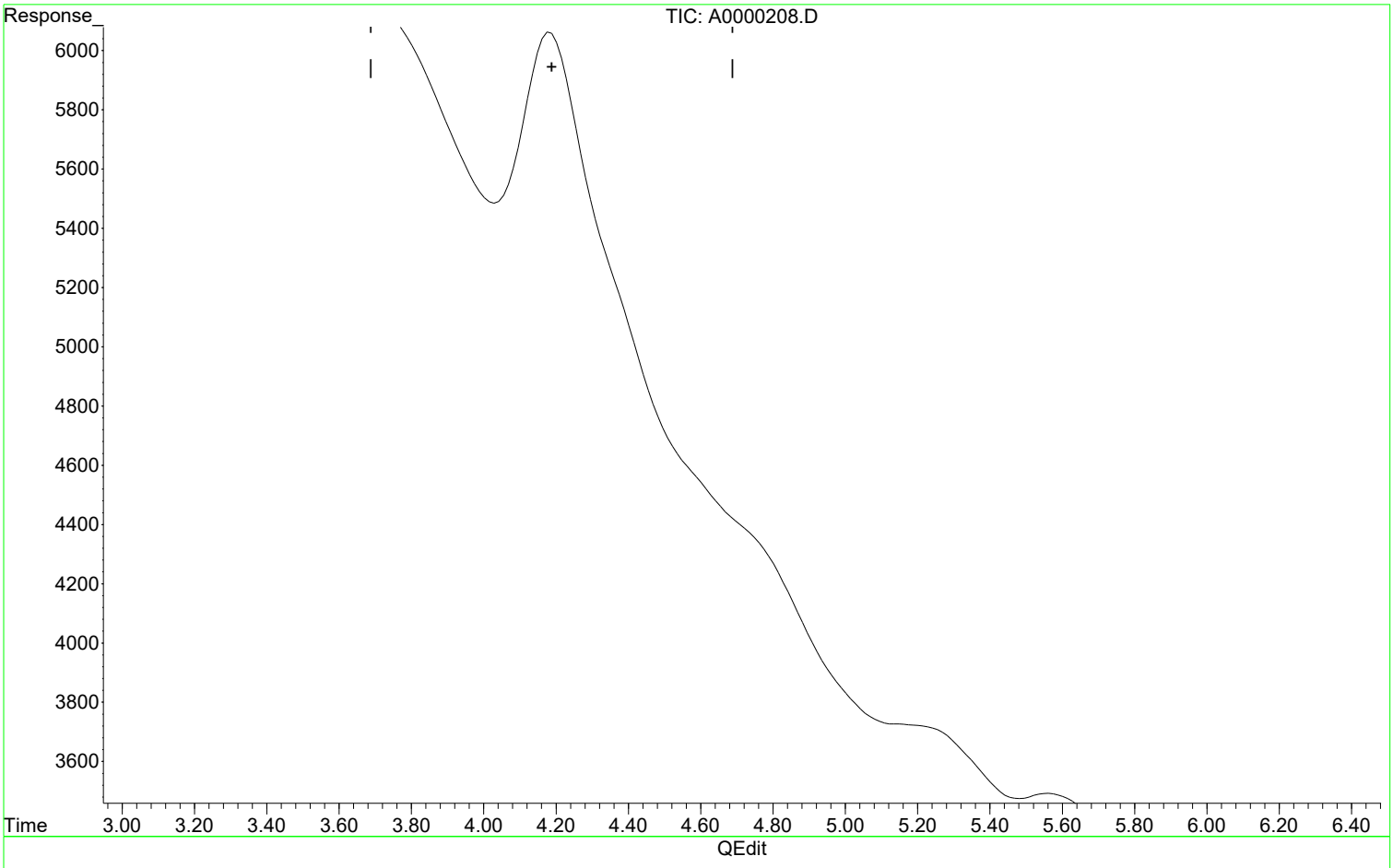
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000208.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 00:44:55
Operator : AFelser
Sample : R2408139-003
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:18 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.185min -0.058 ppm

response -3031

Manual Integration:

Before

09/09/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000208.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 00:44:55
Operator : AFelser
Sample : R2408139-003
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:18 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	4.188	110972	2.126	ppm	m
5) T	Propionic Acid	0.000	0	N.D.	ppm	
6) T	Butyric Acid	0.000	0	N.D.	ppm	

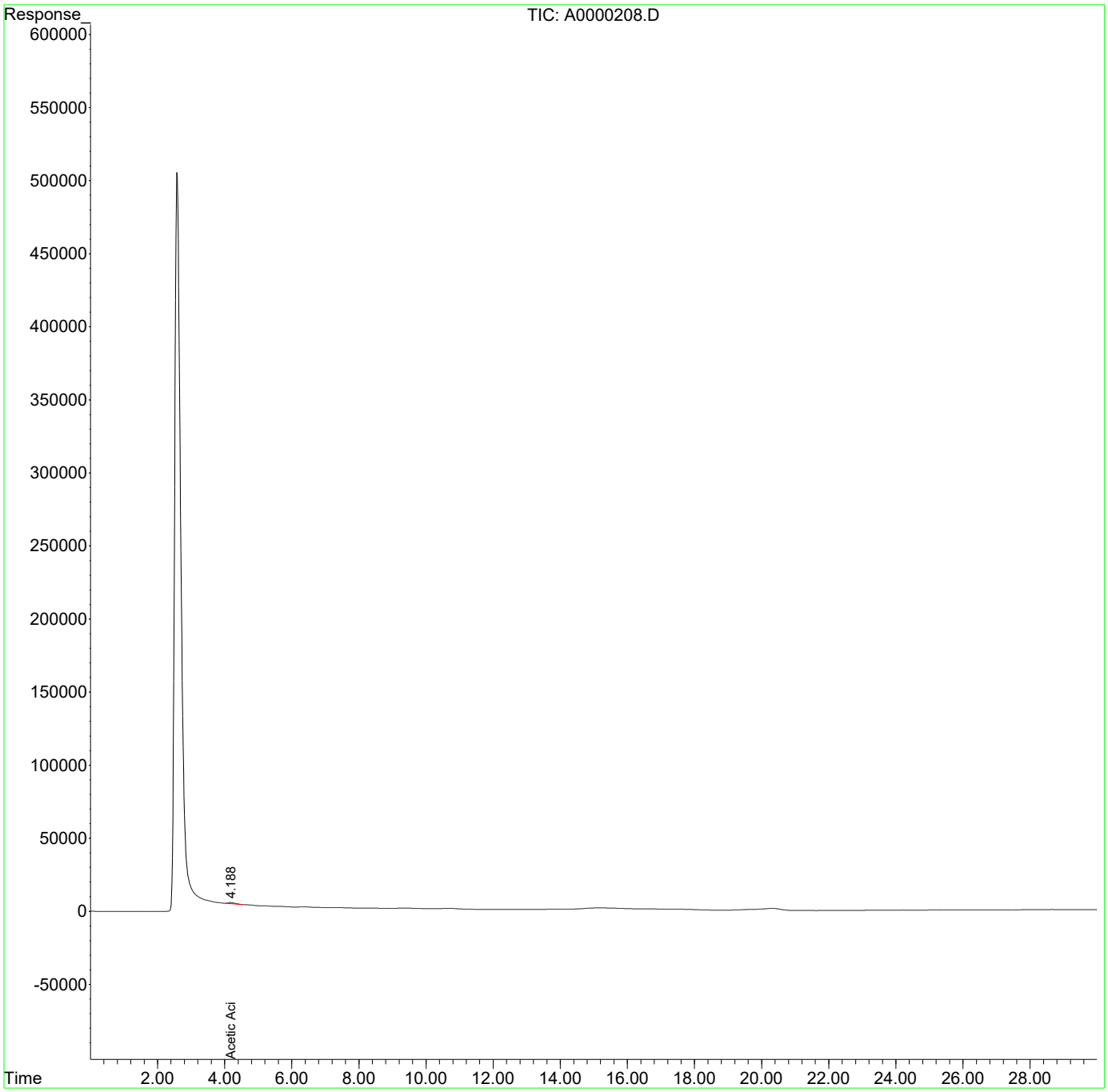
(f)=RT Delta > 1/2 Window (m)=manual int.

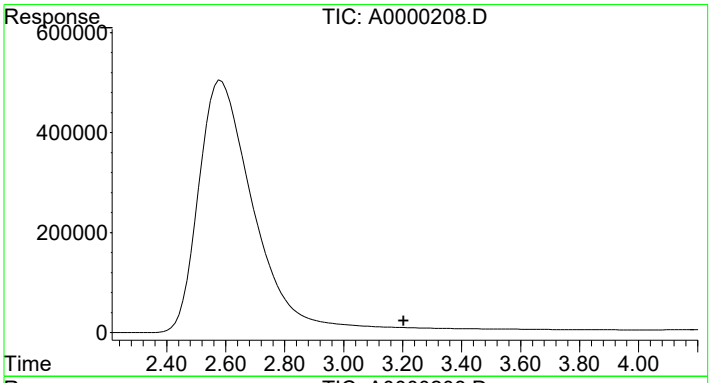
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000208.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 00:44:55
Operator : AFelser
Sample : R2408139-003
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:18 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

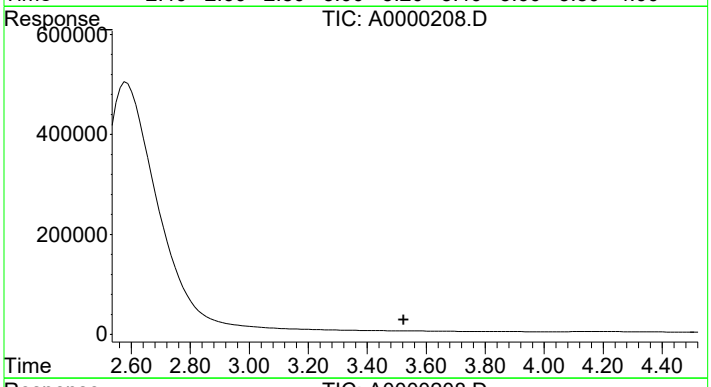
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





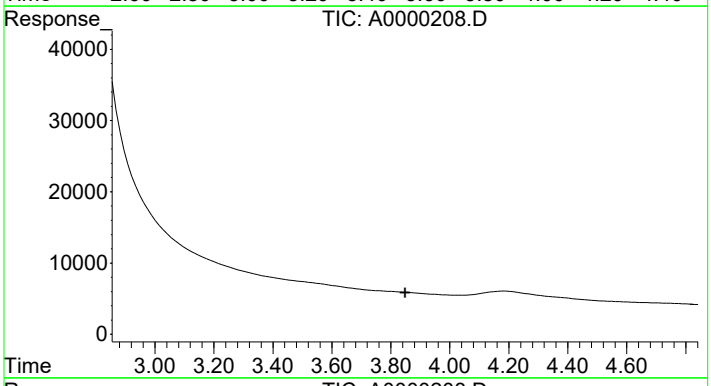
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.204 min
Response: 0
Conc: N.D.



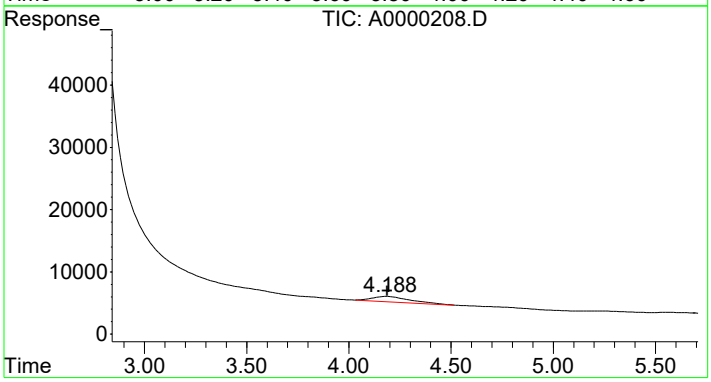
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.523 min
Response: 0
Conc: N.D.



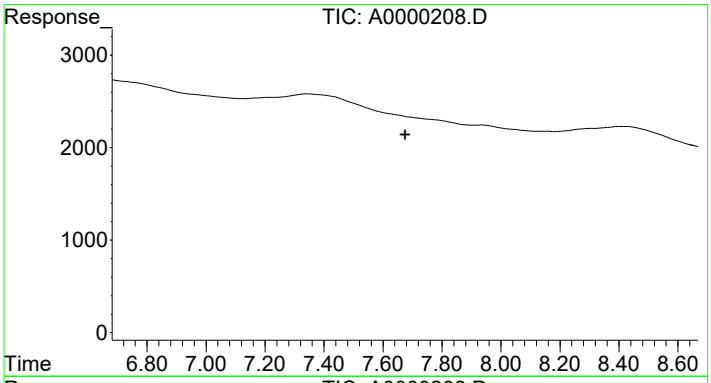
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.850 min
Response: 0
Conc: N.D.



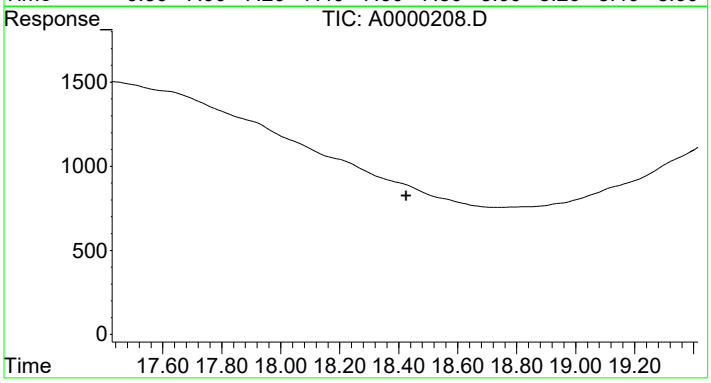
#4 Acetic Acid

R.T.: 4.188 min
Delta R.T.: 0.000 min
Response: 110972
Conc: 2.13 ppm m



#5 Propionic Acid

R.T.: 0.000 min
Exp R.T. : 7.676 min
Response: 0
Conc: N.D.



#6 Butyric Acid

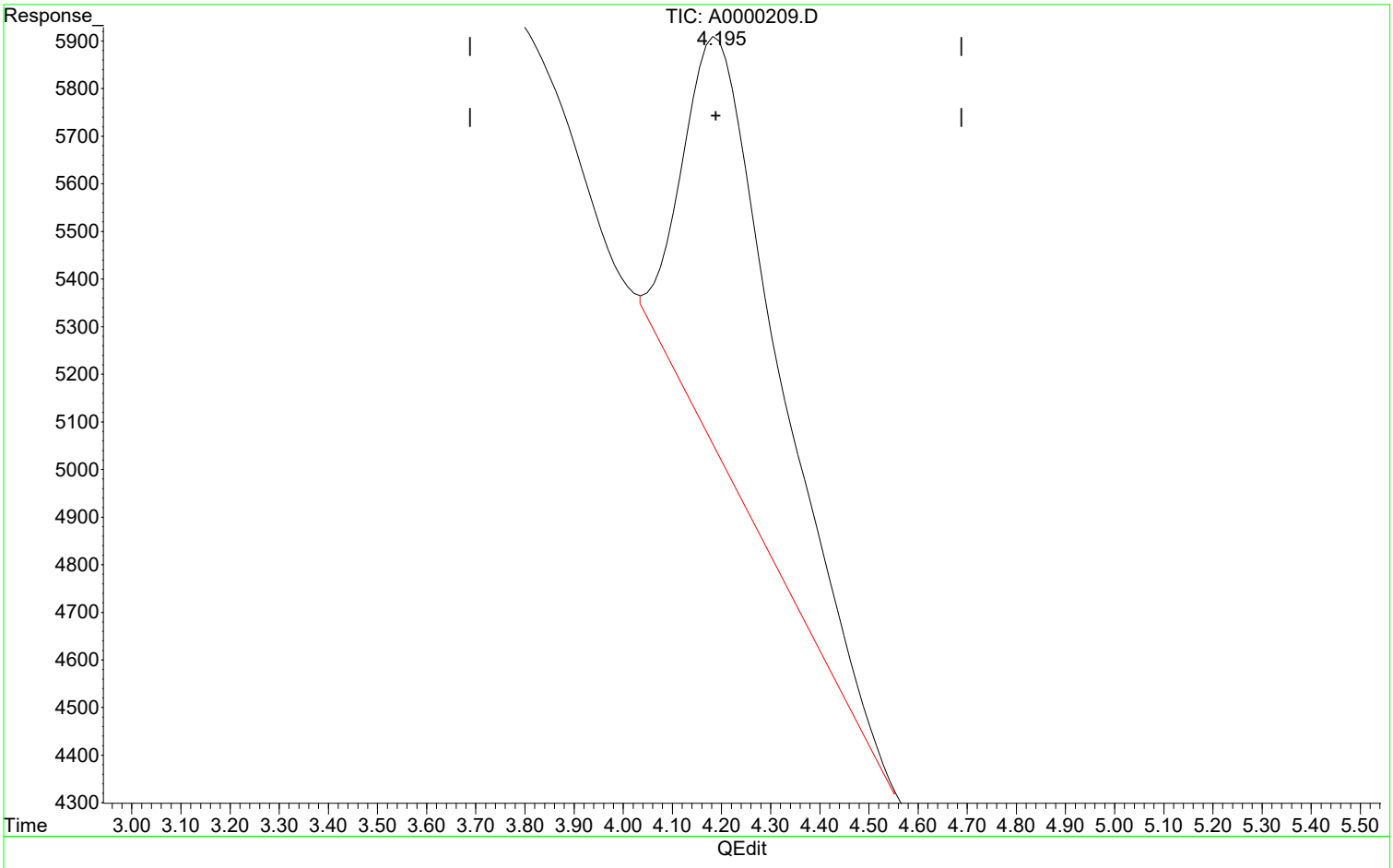
R.T.: 0.000 min
Exp R.T. : 18.426 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000209.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 01:16:41
Operator : AFelser
Sample : R2408139-004
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:20 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.195min 2.216 ppm m

response 115633

Manual Integration:

After

Poor integration.

09/09/24

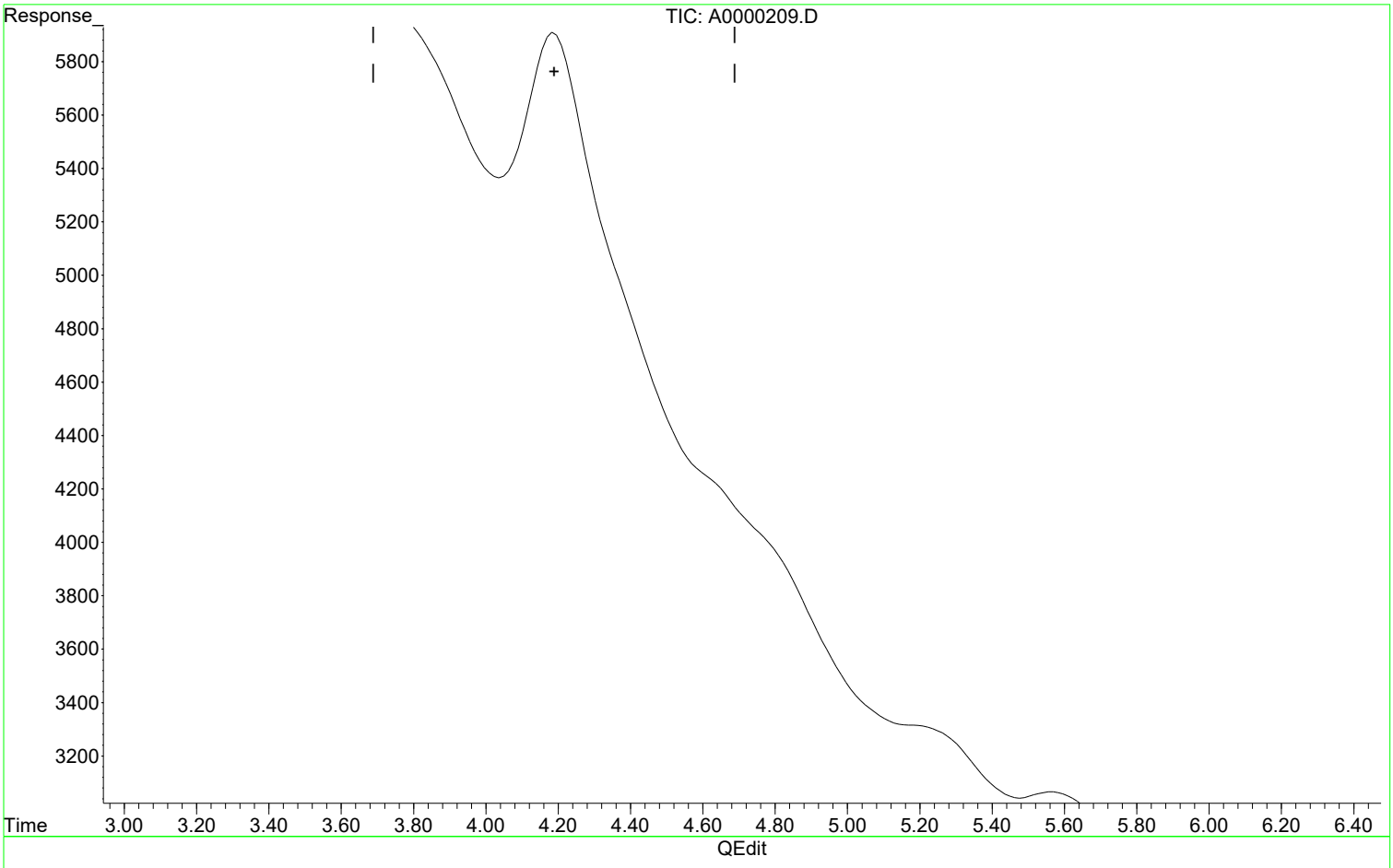
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000209.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 01:16:41
Operator : AFelser
Sample : R2408139-004
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:20 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.190min -0.468 ppm

response -24446

Manual Integration:

Before

09/09/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000209.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 01:16:41
Operator : AFelser
Sample : R2408139-004
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:20 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	4.195	115633	2.216	ppm	m
5) T	Propionic Acid	0.000	0	N.D.	ppm	
6) T	Butyric Acid	0.000	0	N.D.	ppm	

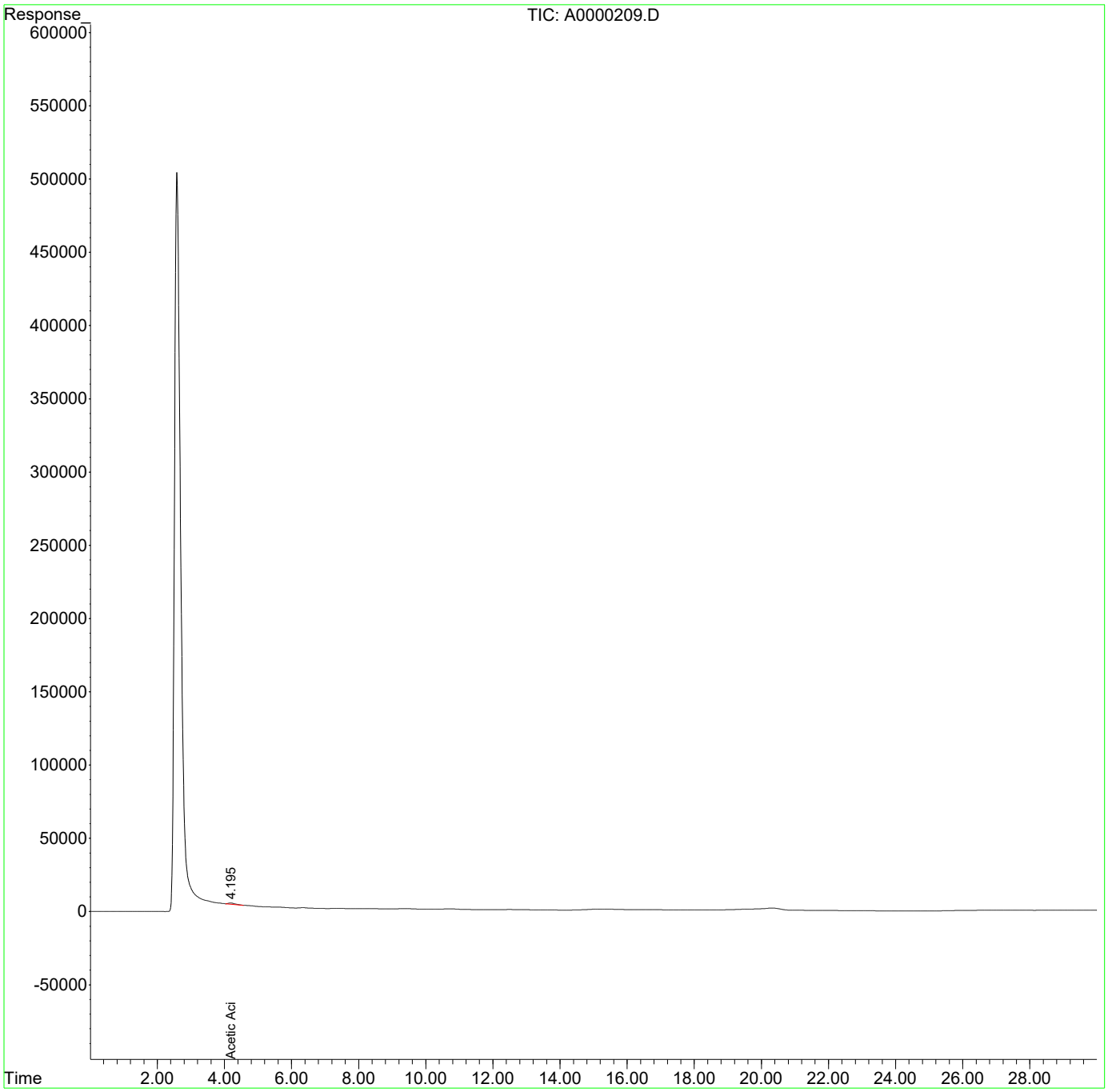
(f)=RT Delta > 1/2 Window (m)=manual int.

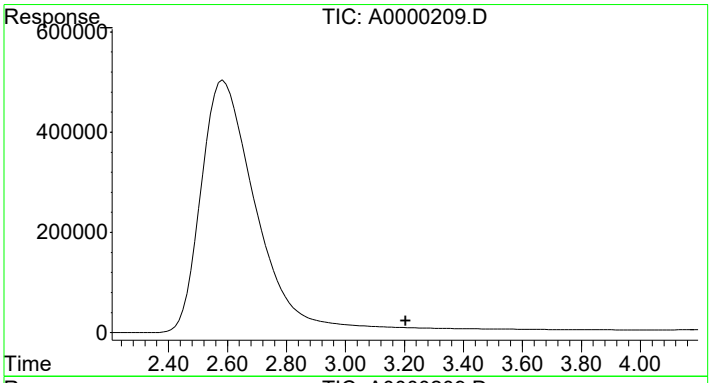
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000209.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 01:16:41
Operator : AFelser
Sample : R2408139-004
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:20 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

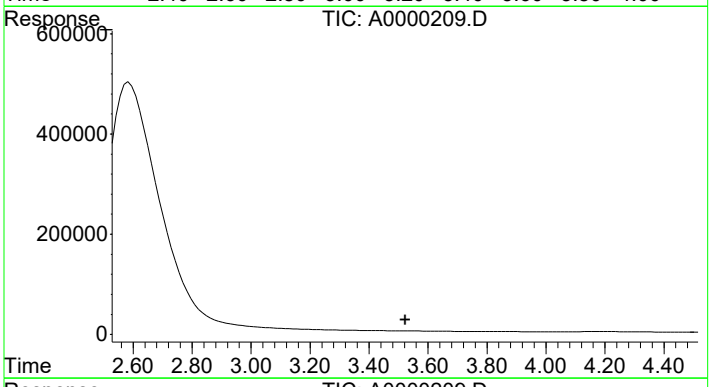
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





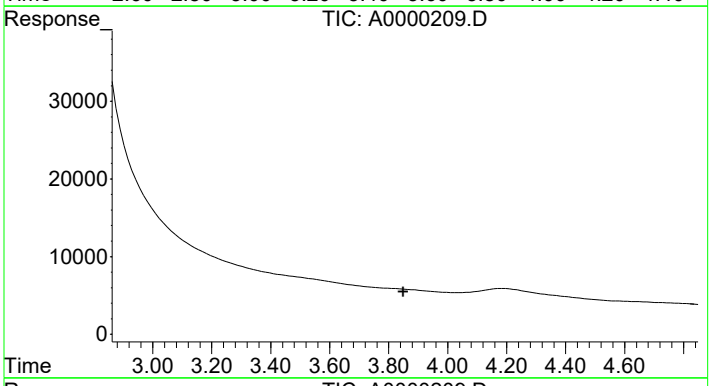
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.204 min
Response: 0
Conc: N.D.



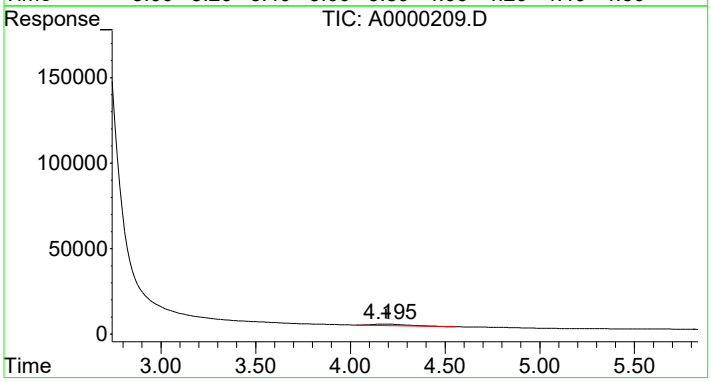
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.523 min
Response: 0
Conc: N.D.



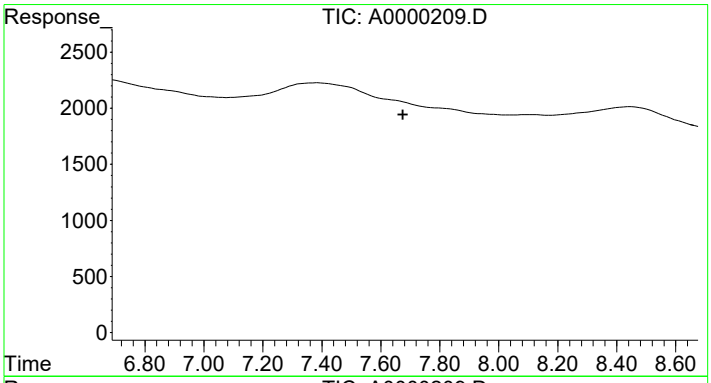
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.850 min
Response: 0
Conc: N.D.



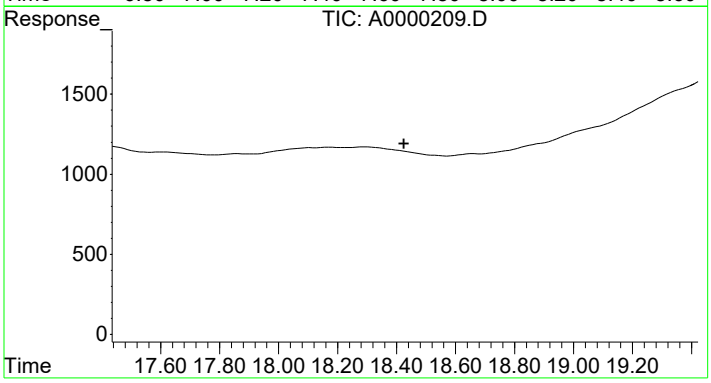
#4 Acetic Acid

R.T.: 4.195 min
Delta R.T.: 0.007 min
Response: 115633
Conc: 2.22 ppm m



#5 Propionic Acid

R.T.: 0.000 min
Exp R.T. : 7.676 min
Response: 0
Conc: N.D.



#6 Butyric Acid

R.T.: 0.000 min
Exp R.T. : 18.426 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000210.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 01:48:27
Operator : AFelser
Sample : R2408139-005
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:22 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) t	Formic acid	0.000	0	N.D.	ppm
2) T	Pyruvic acid	0.000	0	N.D.	ppm
3) T	Lactic Acid	0.000	0	N.D.	ppm
4) T	Acetic Acid	0.000	0	N.D.	ppm
5) T	Propionic Acid	0.000	0	N.D.	ppm
6) T	Butyric Acid	0.000	0	N.D.	ppm

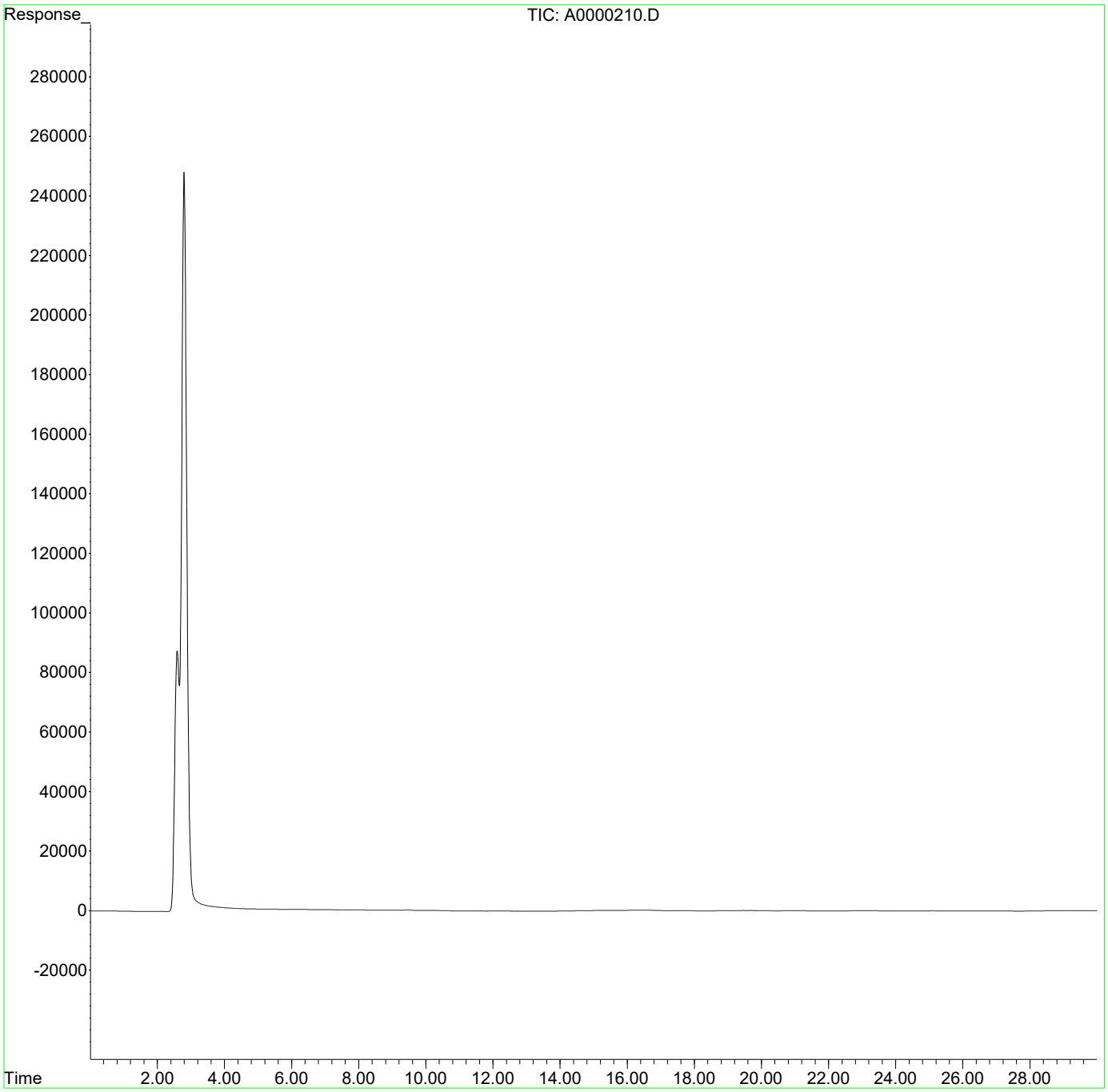
(f)=RT Delta > 1/2 Window (m)=manual int.

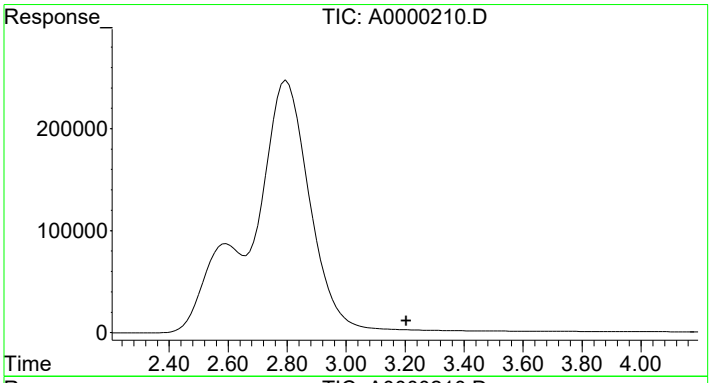
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000210.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 01:48:27
Operator : AFelser
Sample : R2408139-005
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:22 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

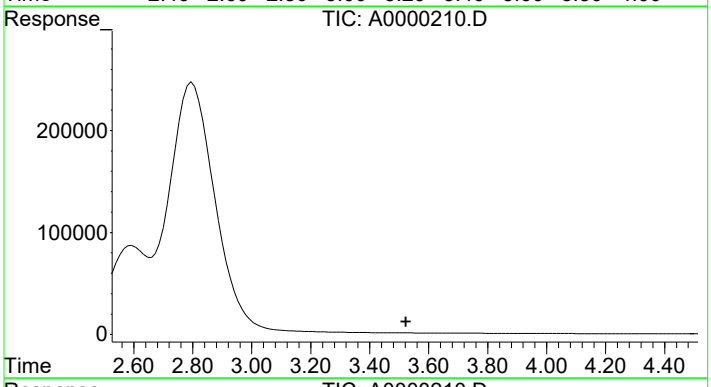
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





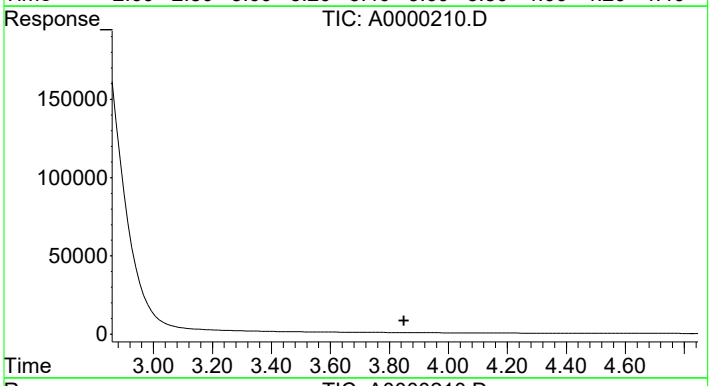
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.204 min
Response: 0
Conc: N.D.



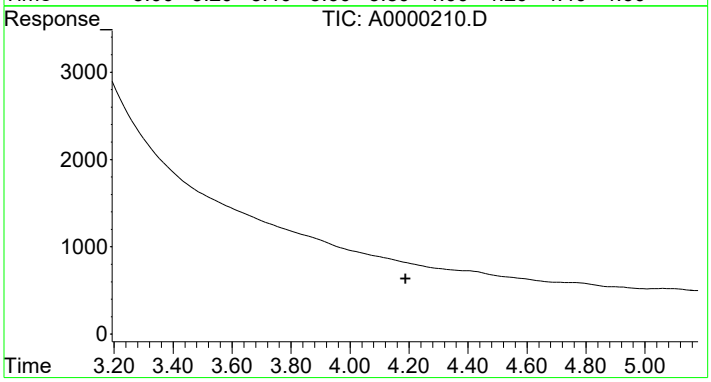
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.523 min
Response: 0
Conc: N.D.



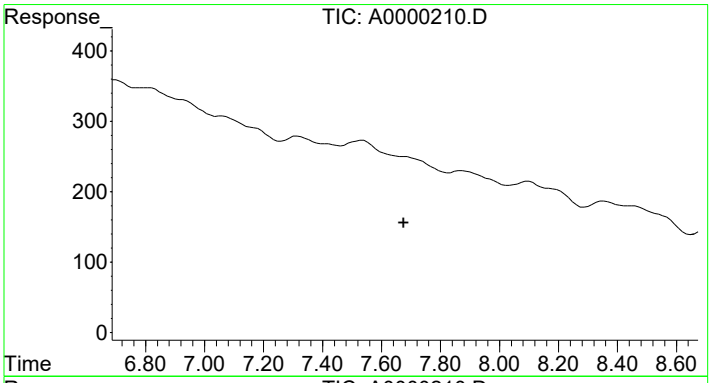
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.850 min
Response: 0
Conc: N.D.



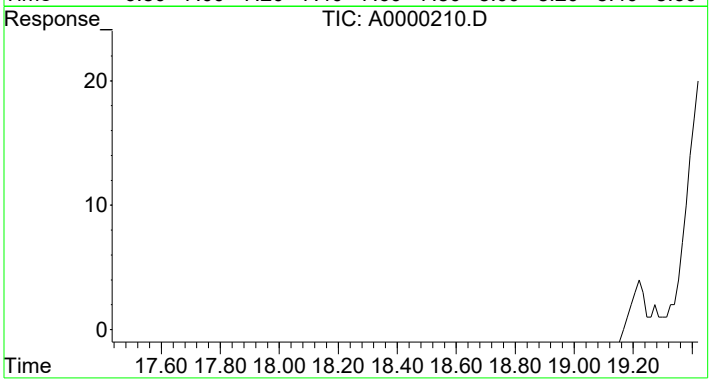
#4 Acetic Acid

R.T.: 0.000 min
Exp R.T. : 4.189 min
Response: 0
Conc: N.D.



#5 Propionic Acid

R.T.: 0.000 min
Exp R.T. : 7.676 min
Response: 0
Conc: N.D.



#6 Butyric Acid

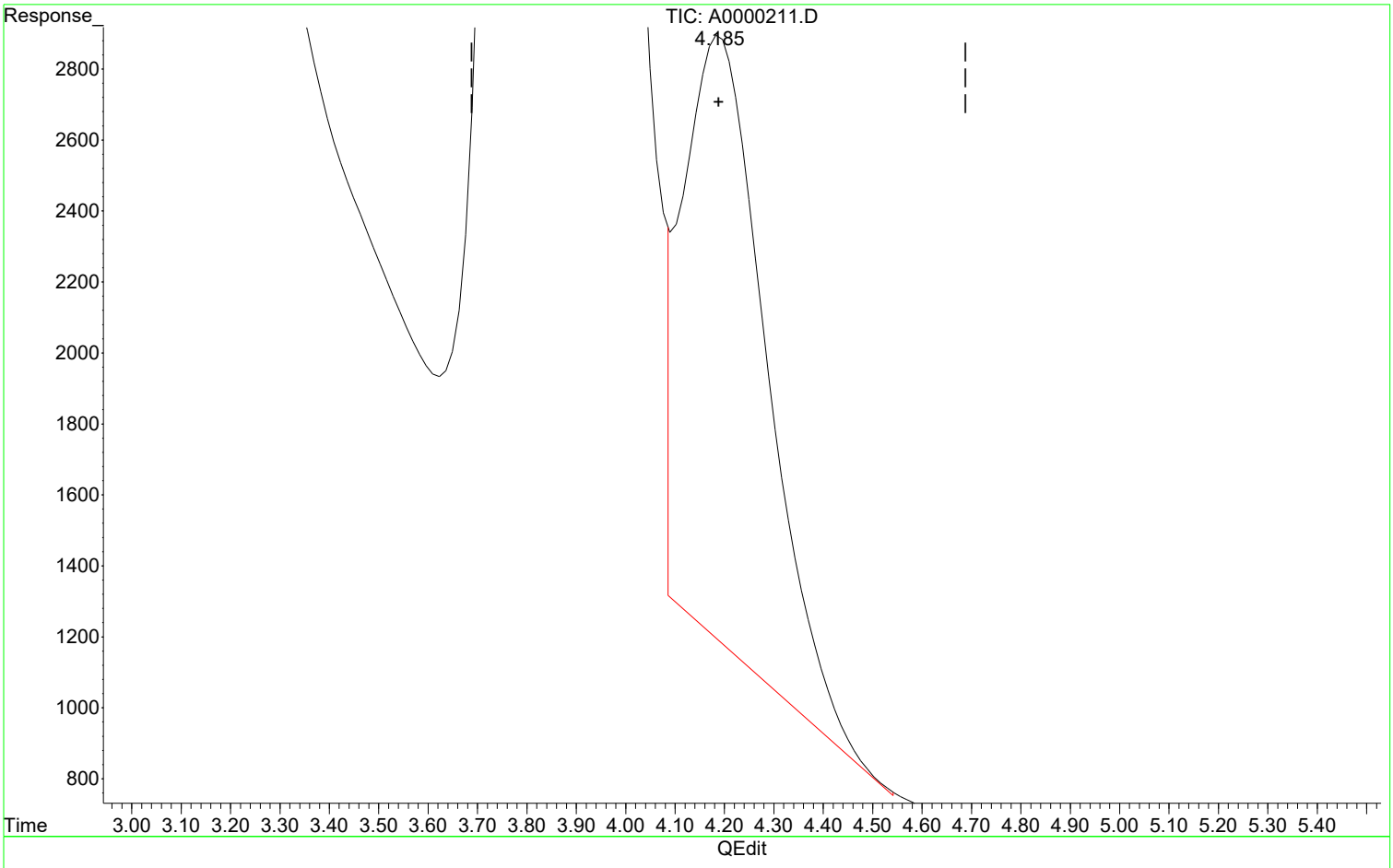
R.T.: 0.000 min
Exp R.T. : 18.426 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000211.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 02:20:12
Operator : AFelser
Sample : R2408139-007
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:24 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.185min 3.858 ppm m

response 201358

Manual Integration:

After

Poor integration.

09/09/24

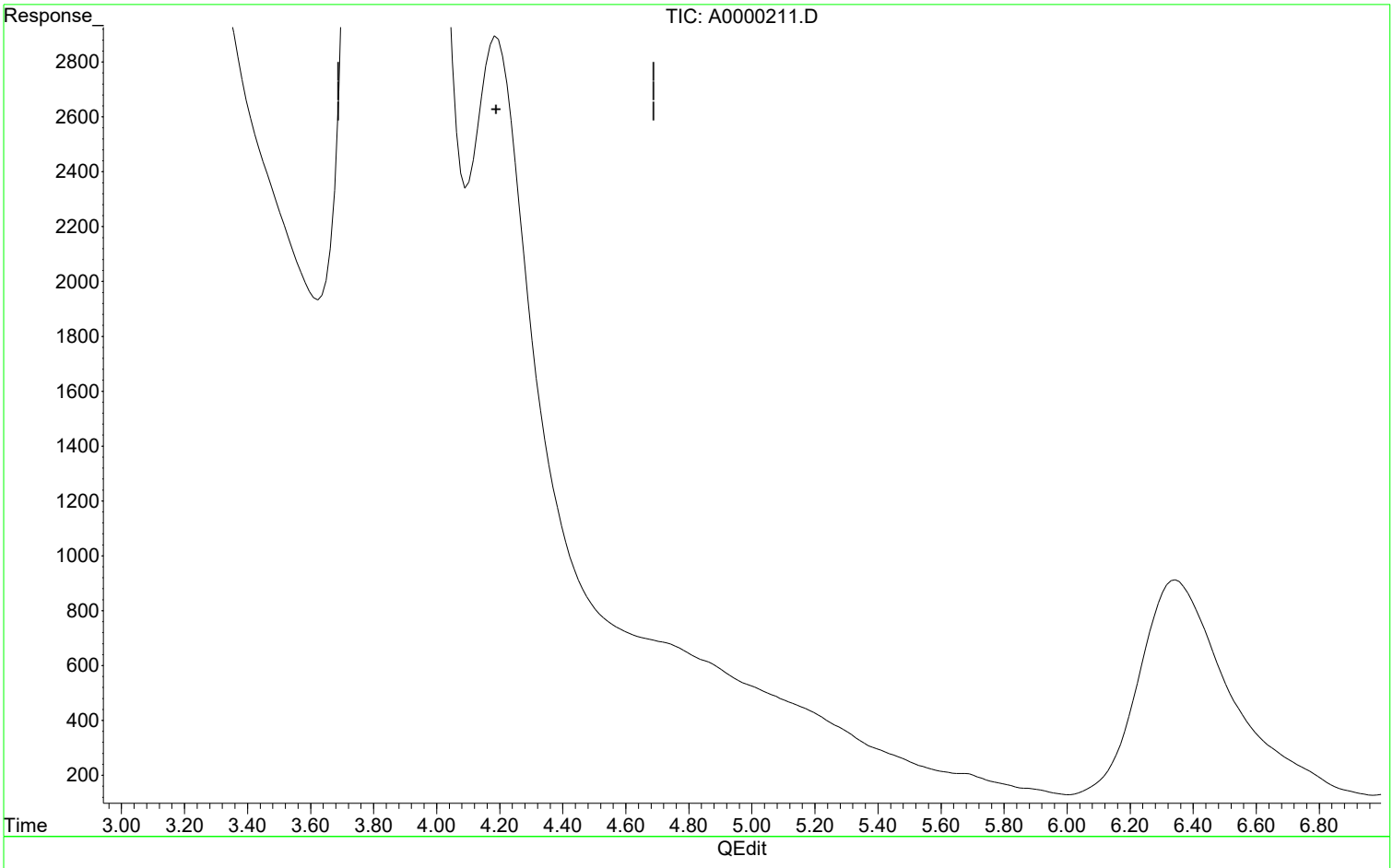
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000211.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 02:20:12
Operator : AFelser
Sample : R2408139-007
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:24 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.191min -2.880 ppm

response -150300

Manual Integration:

Before

09/09/24

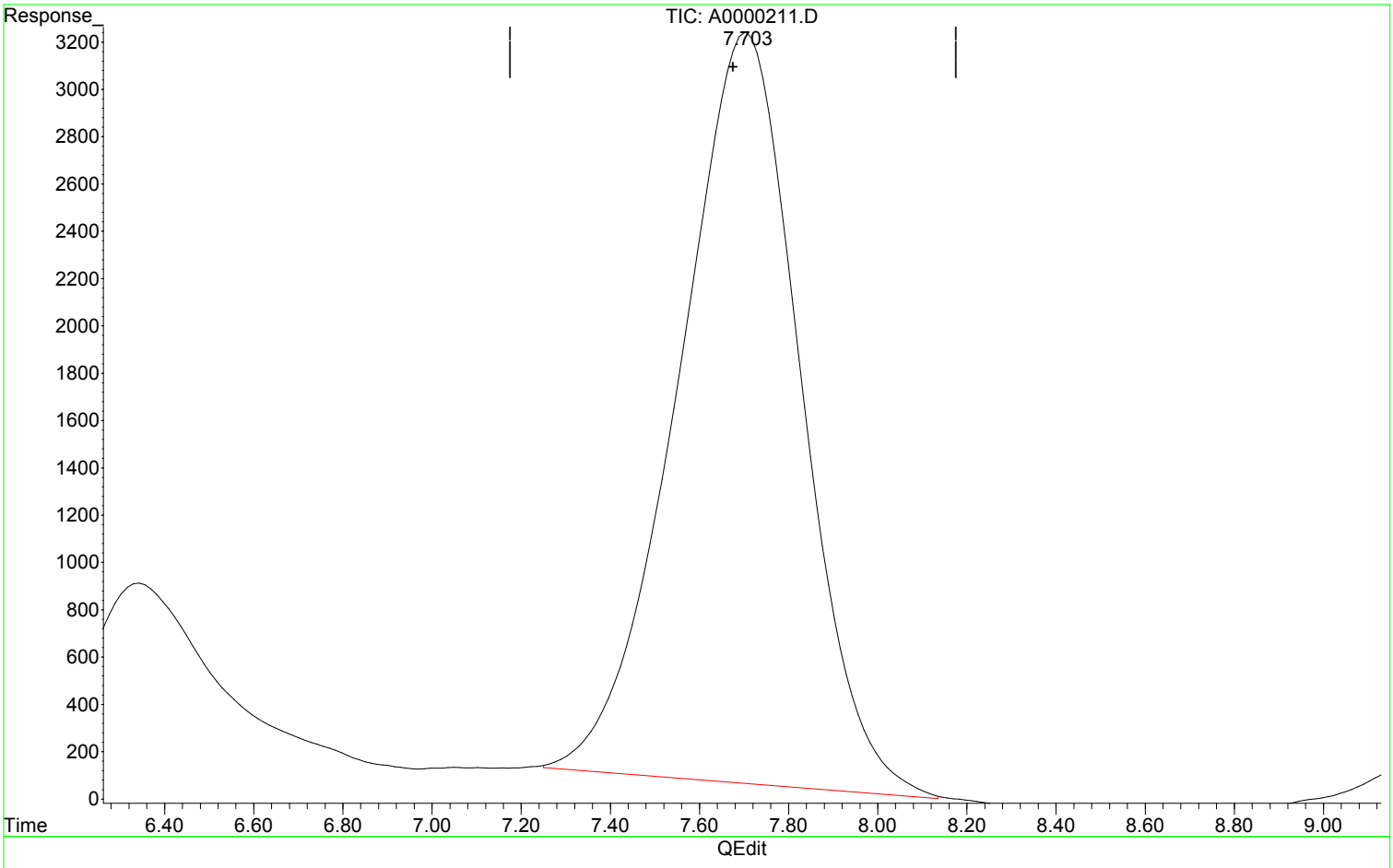
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000211.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 02:20:12
Operator : AFelser
Sample : R2408139-007
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:24 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.702min 11.334 ppm m

response 604382

Manual Integration:

After

Poor integration.

09/05/24

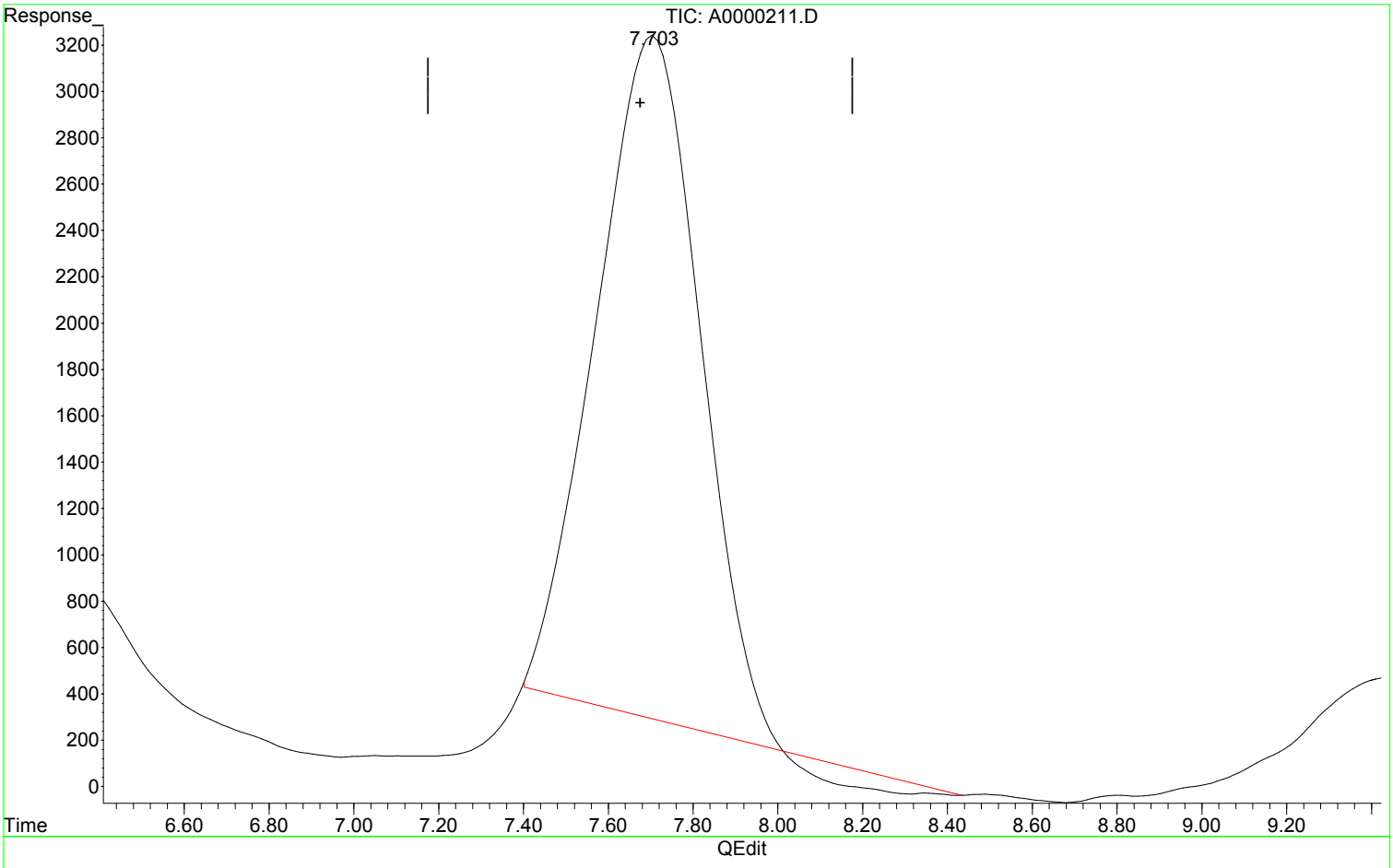
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000211.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 02:20:12
Operator : AFelser
Sample : R2408139-007
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:24 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.708min 9.282 ppm

response 494975

Manual Integration:

Before

09/05/24

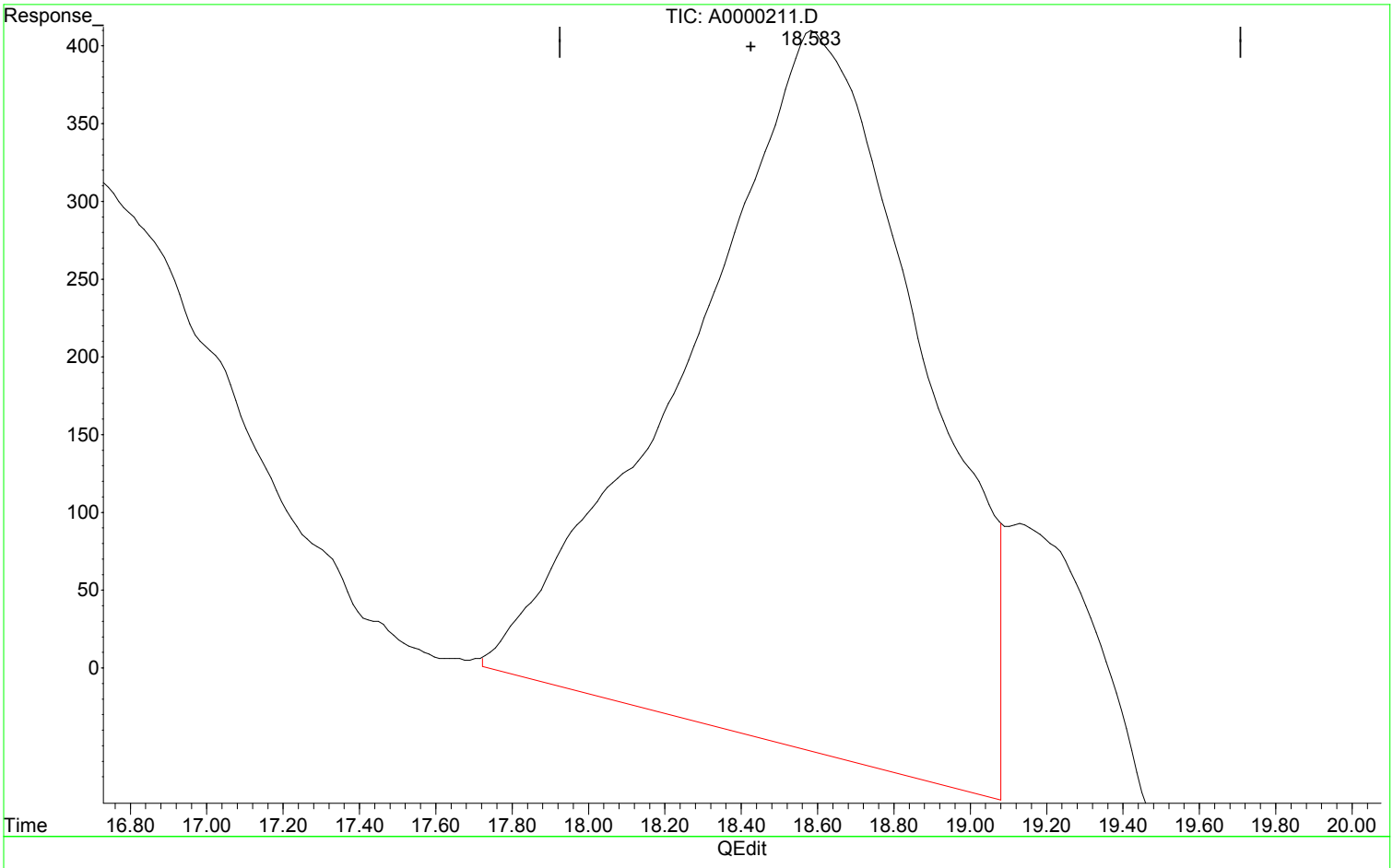
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000211.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 02:20:12
Operator : AFelser
Sample : R2408139-007
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:24 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.583min 2.667 ppm m

response 198691

Manual Integration:

After

Poor integration.

09/05/24

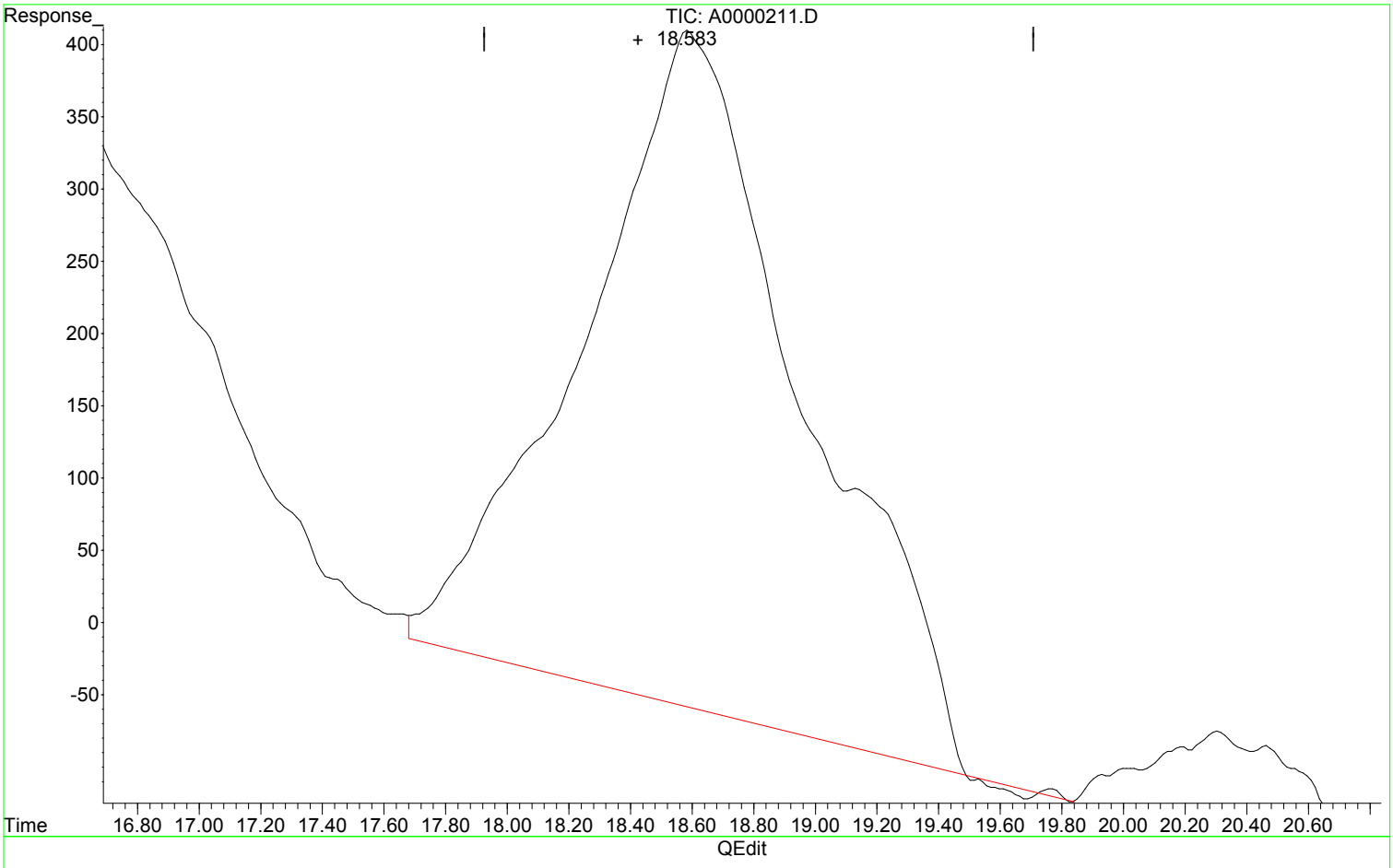
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000211.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 02:20:12
Operator : AFelser
Sample : R2408139-007
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:24 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.593min 3.139 ppm

response 233869

Manual Integration:

Before

09/05/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000211.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 02:20:12
Operator : AFelser
Sample : R2408139-007
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:24 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	3.851	1872487	36.709	ppm	
4) T	Acetic Acid	4.185	201358	3.858	ppm	m
5) T	Propionic Acid	7.702	604382	11.334	ppm	m
6) T	Butyric Acid	18.583	198691	2.667	ppm	m

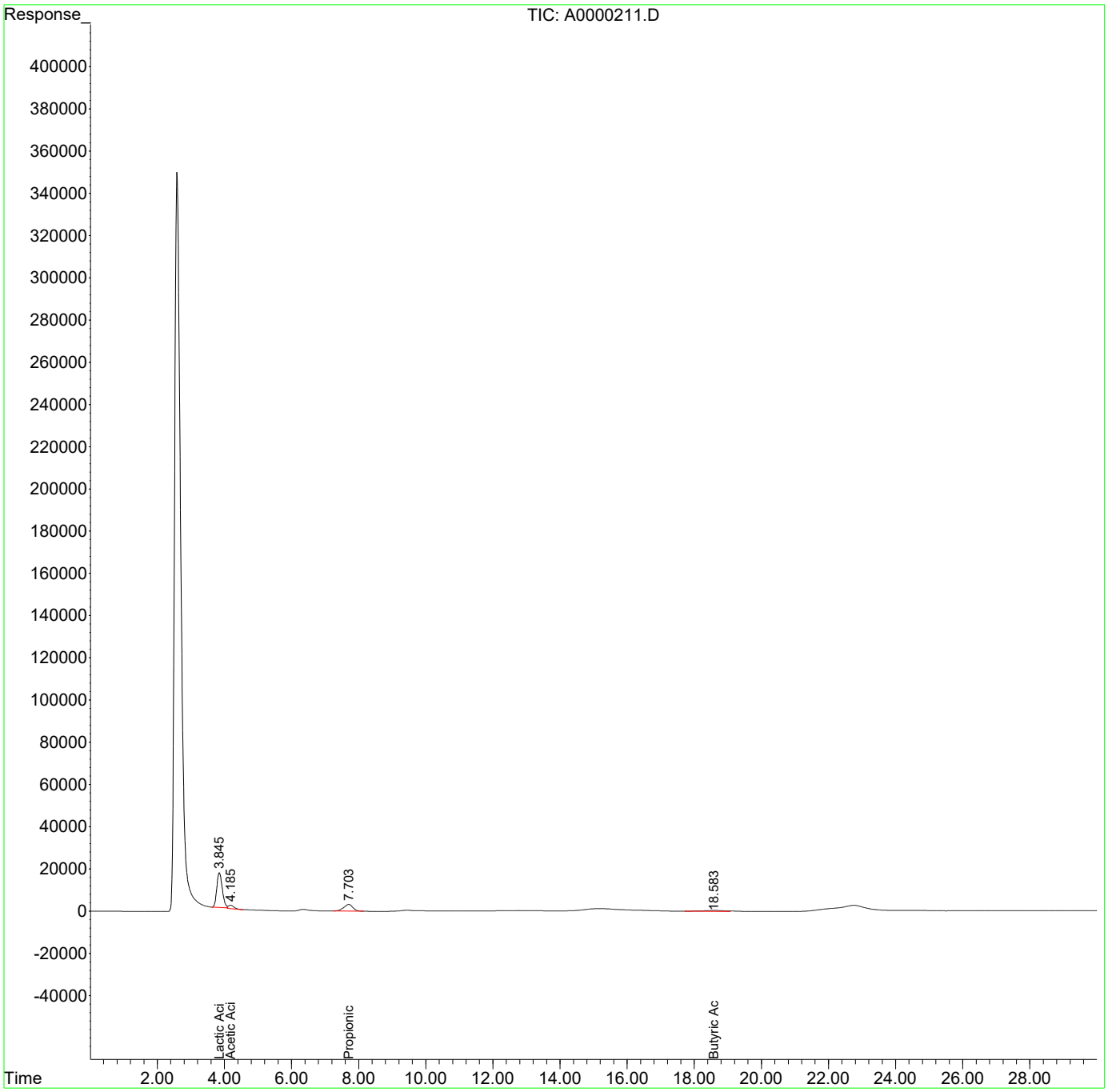
(f)=RT Delta > 1/2 Window (m)=manual int.

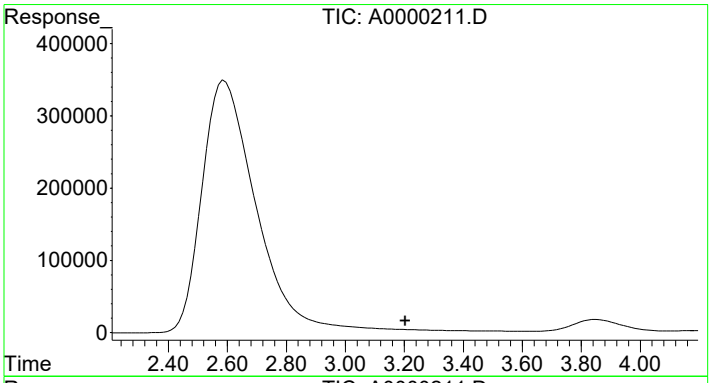
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000211.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 02:20:12
Operator : AFelser
Sample : R2408139-007
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:24 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

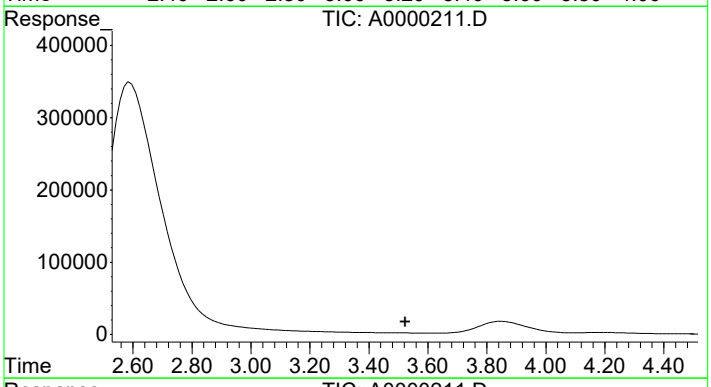
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





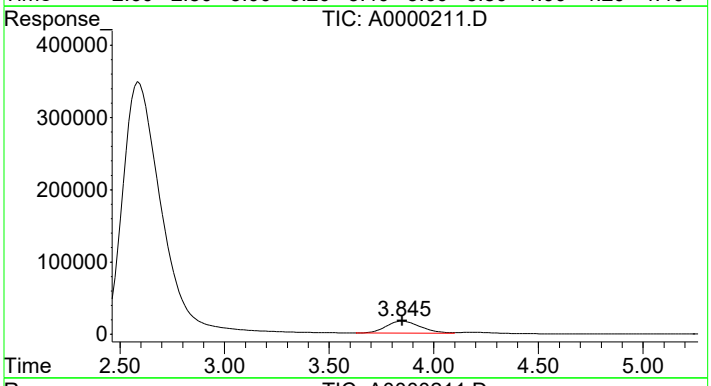
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.204 min
Response: 0
Conc: N.D.



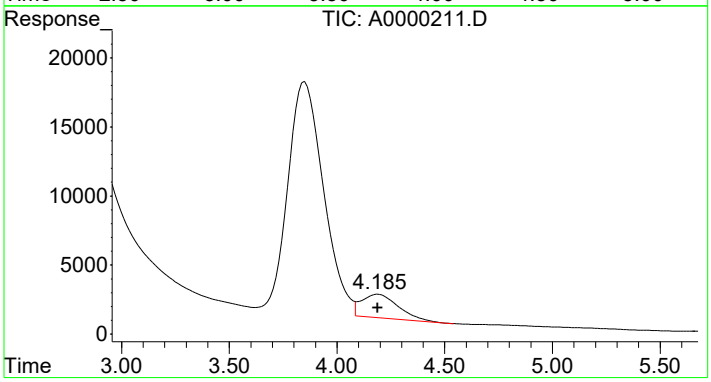
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.523 min
Response: 0
Conc: N.D.



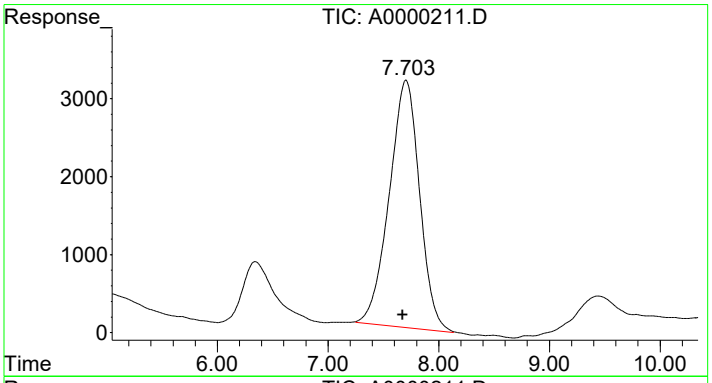
#3 Lactic Acid

R.T.: 3.851 min
Delta R.T.: 0.002 min
Response: 1872487
Conc: 36.71 ppm



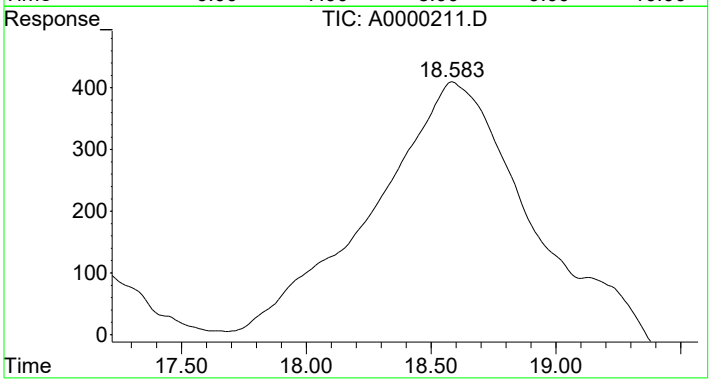
#4 Acetic Acid

R.T.: 4.185 min
Delta R.T.: -0.003 min
Response: 201358
Conc: 3.86 ppm m



#5 Propionic Acid

R.T.: 7.702 min
Delta R.T.: 0.027 min
Response: 604382
Conc: 11.33 ppm m



#6 Butyric Acid

R.T.: 18.583 min
Delta R.T.: 0.157 min
Response: 198691
Conc: 2.67 ppm m

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000212.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 02:51:58
Operator : AFelser
Sample : R2408139-008
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:26 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) t	Formic acid	0.000	0	N.D.	ppm
2) T	Pyruvic acid	0.000	0	N.D.	ppm
3) T	Lactic Acid	0.000	0	N.D.	ppm
4) T	Acetic Acid	0.000	0	N.D.	ppm
5) T	Propionic Acid	0.000	0	N.D.	ppm
6) T	Butyric Acid	0.000	0	N.D.	ppm

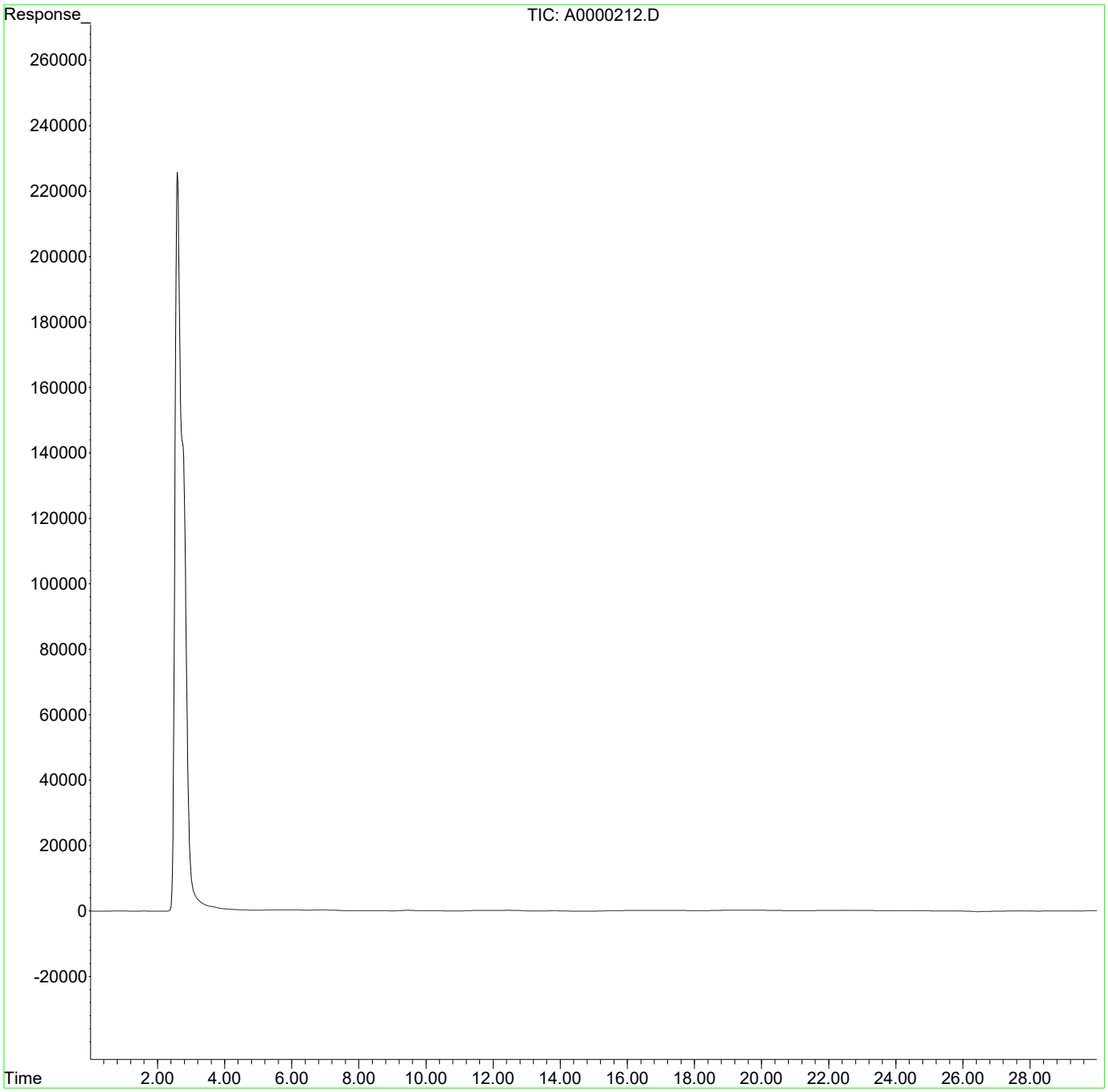
(f)=RT Delta > 1/2 Window (m)=manual int.

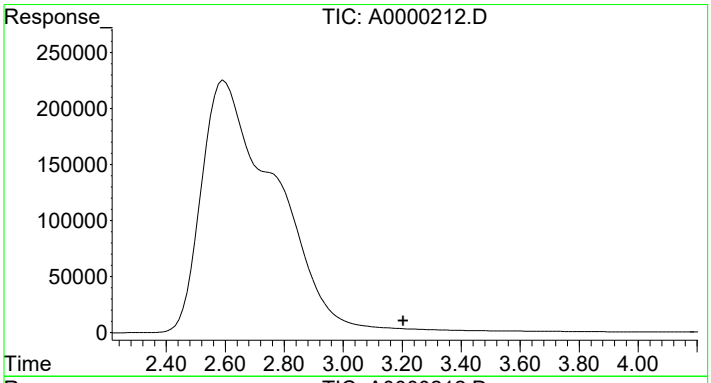
1st AF 09/09/24
2nd AM 09/09/24

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000212.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 02:51:58
Operator : AFelser
Sample : R2408139-008
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:26 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

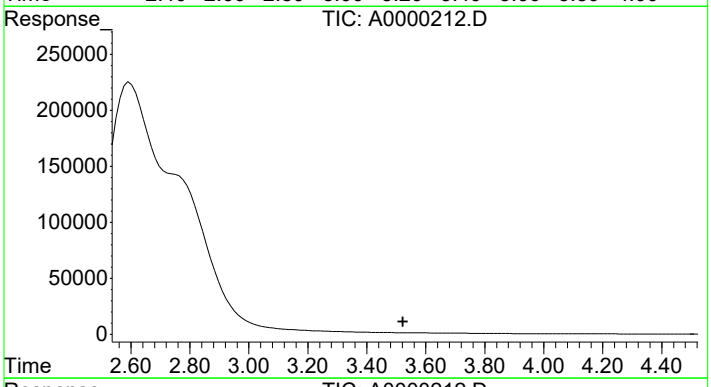
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





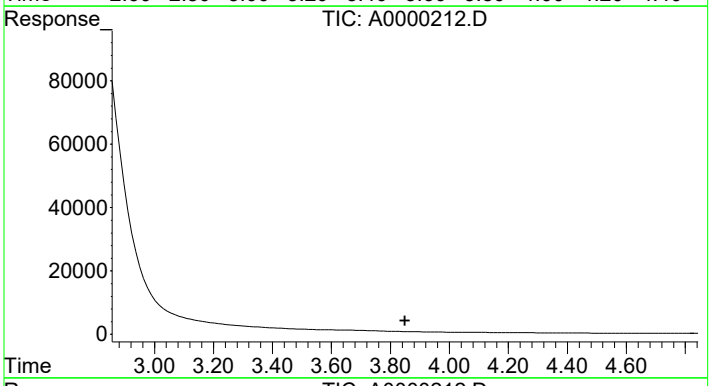
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.204 min
Response: 0
Conc: N.D.



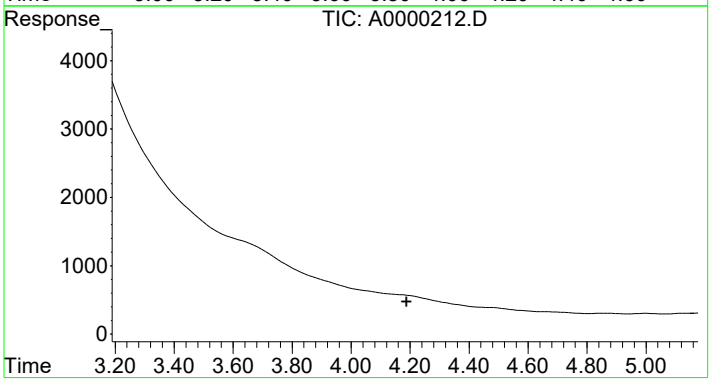
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.523 min
Response: 0
Conc: N.D.



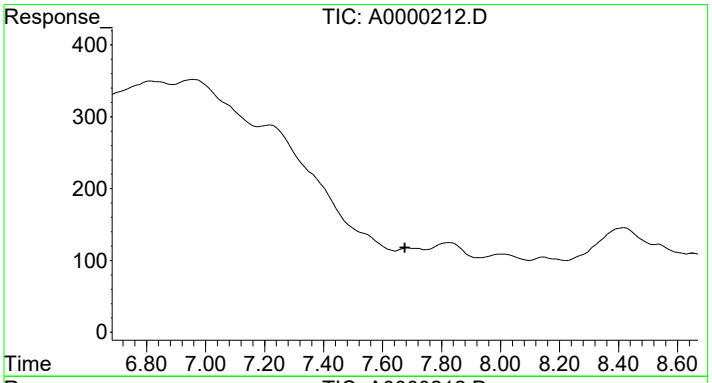
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.850 min
Response: 0
Conc: N.D.



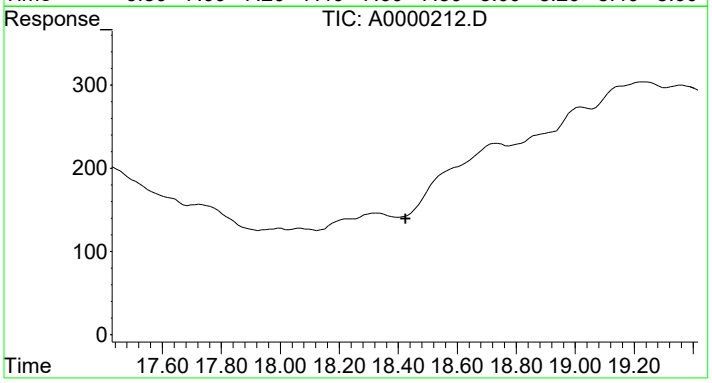
#4 Acetic Acid

R.T.: 0.000 min
Exp R.T. : 4.189 min
Response: 0
Conc: N.D.



#5 Propionic Acid

R.T.: 0.000 min
Exp R.T. : 7.676 min
Response: 0
Conc: N.D.



#6 Butyric Acid

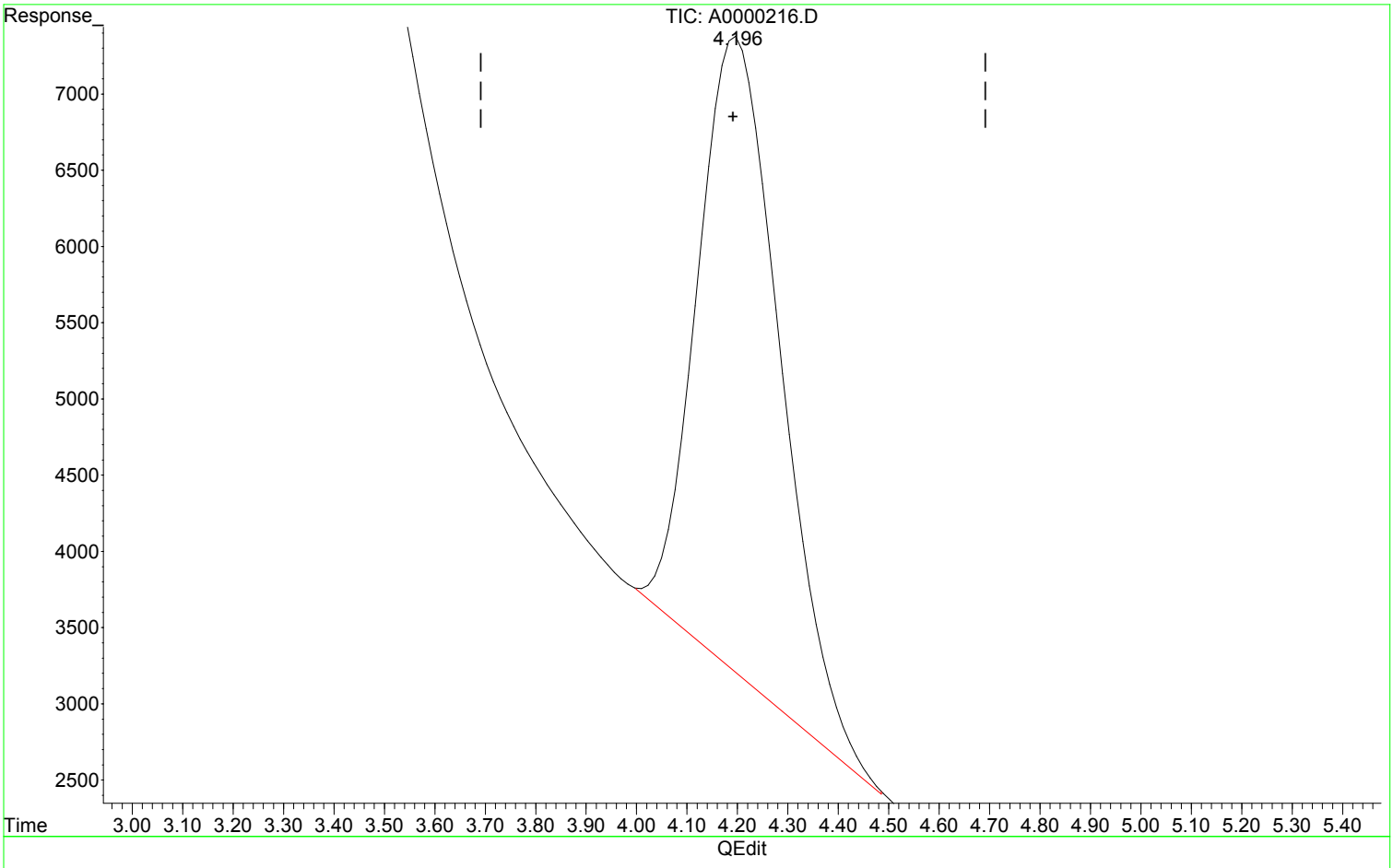
R.T.: 0.000 min
Exp R.T. : 18.426 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000216.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 04:59:07
Operator : AFelser
Sample : R2408139-010
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:02 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.196min 9.200 ppm m

response 480110

Manual Integration:

After

Poor integration.

09/05/24

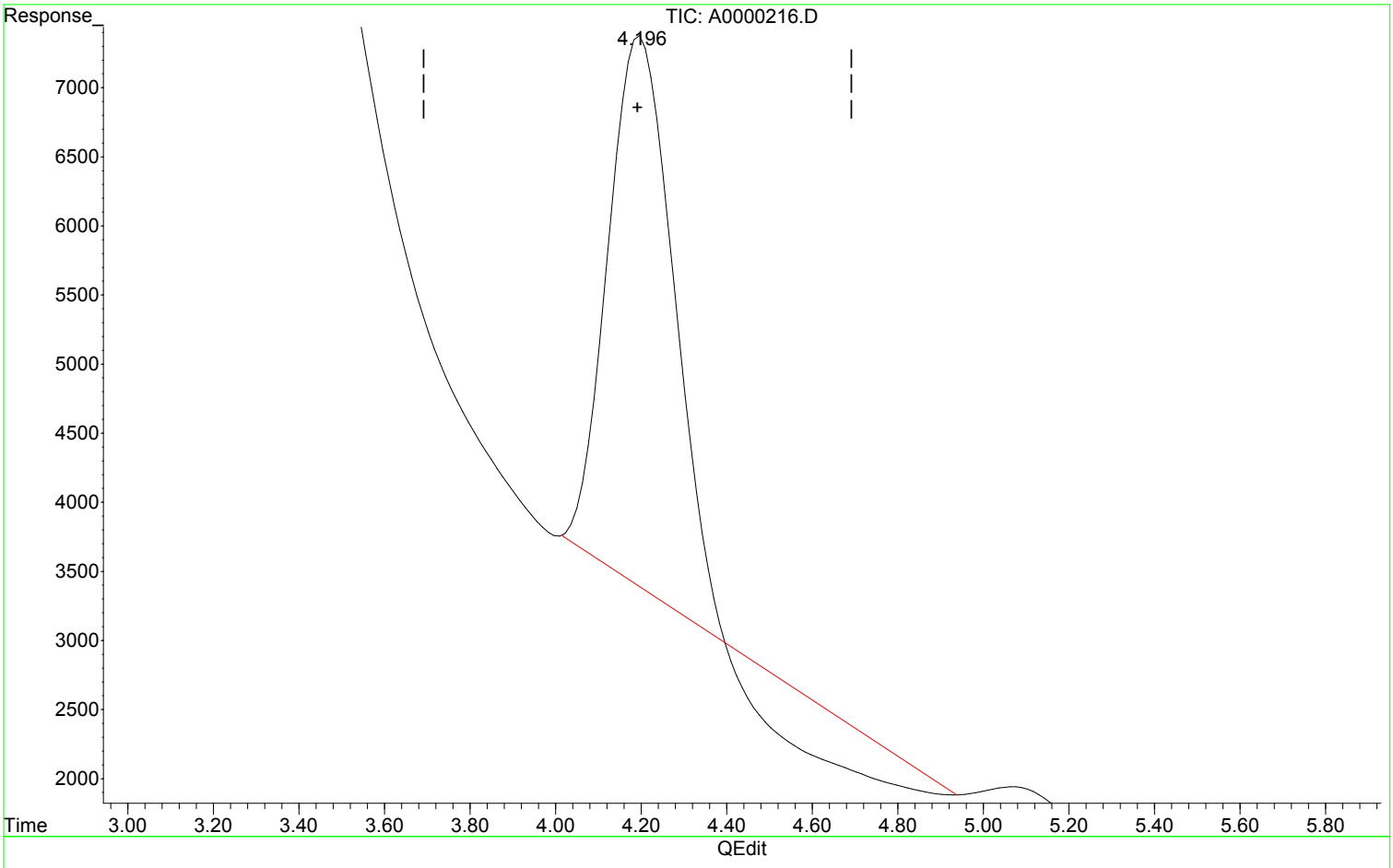
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000216.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 04:59:07
Operator : AFelser
Sample : R2408139-010
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:02 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.198min 6.677 ppm

response 348442

Manual Integration:

Before

09/05/24

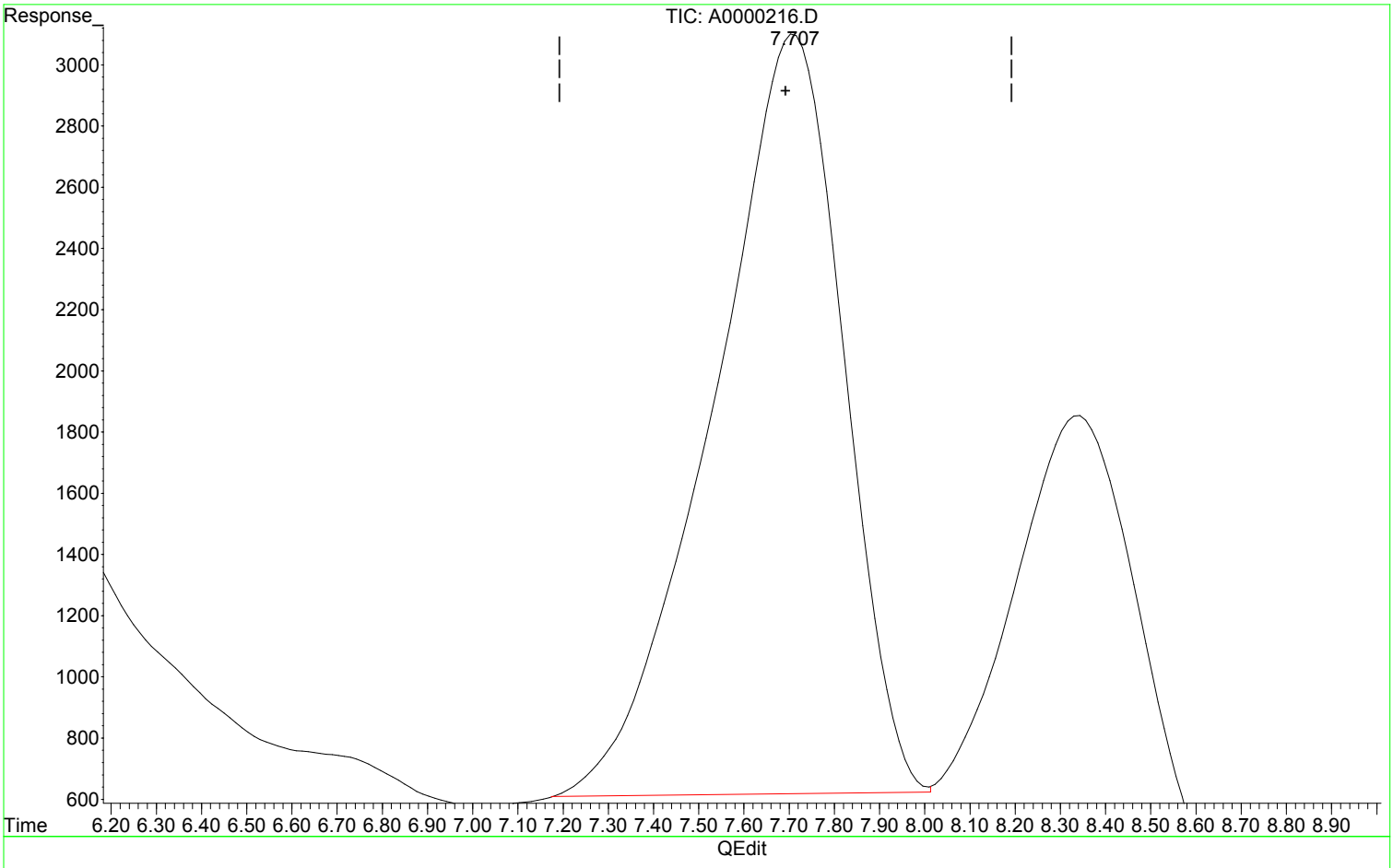
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000216.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 04:59:07
Operator : AFelser
Sample : R2408139-010
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:02 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.707min 9.264 ppm m

response 494012

Manual Integration:

After

Poor integration.

09/05/24

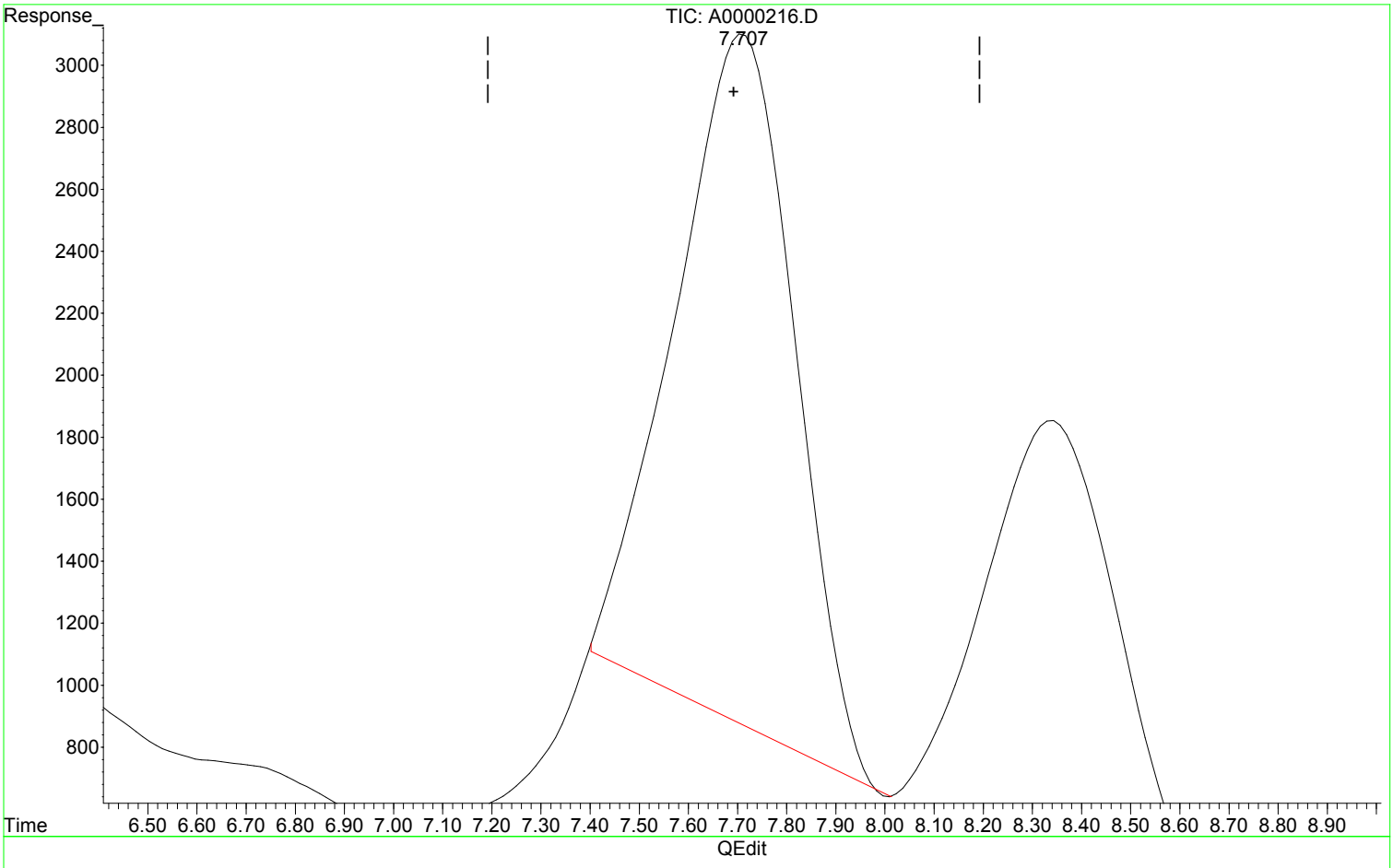
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000216.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 04:59:07
Operator : AFelser
Sample : R2408139-010
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:02 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.712min 7.097 ppm

response 378455

Manual Integration:

Before

09/05/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000216.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 04:59:07
Operator : AFelser
Sample : R2408139-010
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:02 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	4.196	480110	9.200	ppm	m
5) T	Propionic Acid	7.707	494012	9.264	ppm	m
6) T	Butyric Acid	0.000	0	N.D.	ppm	

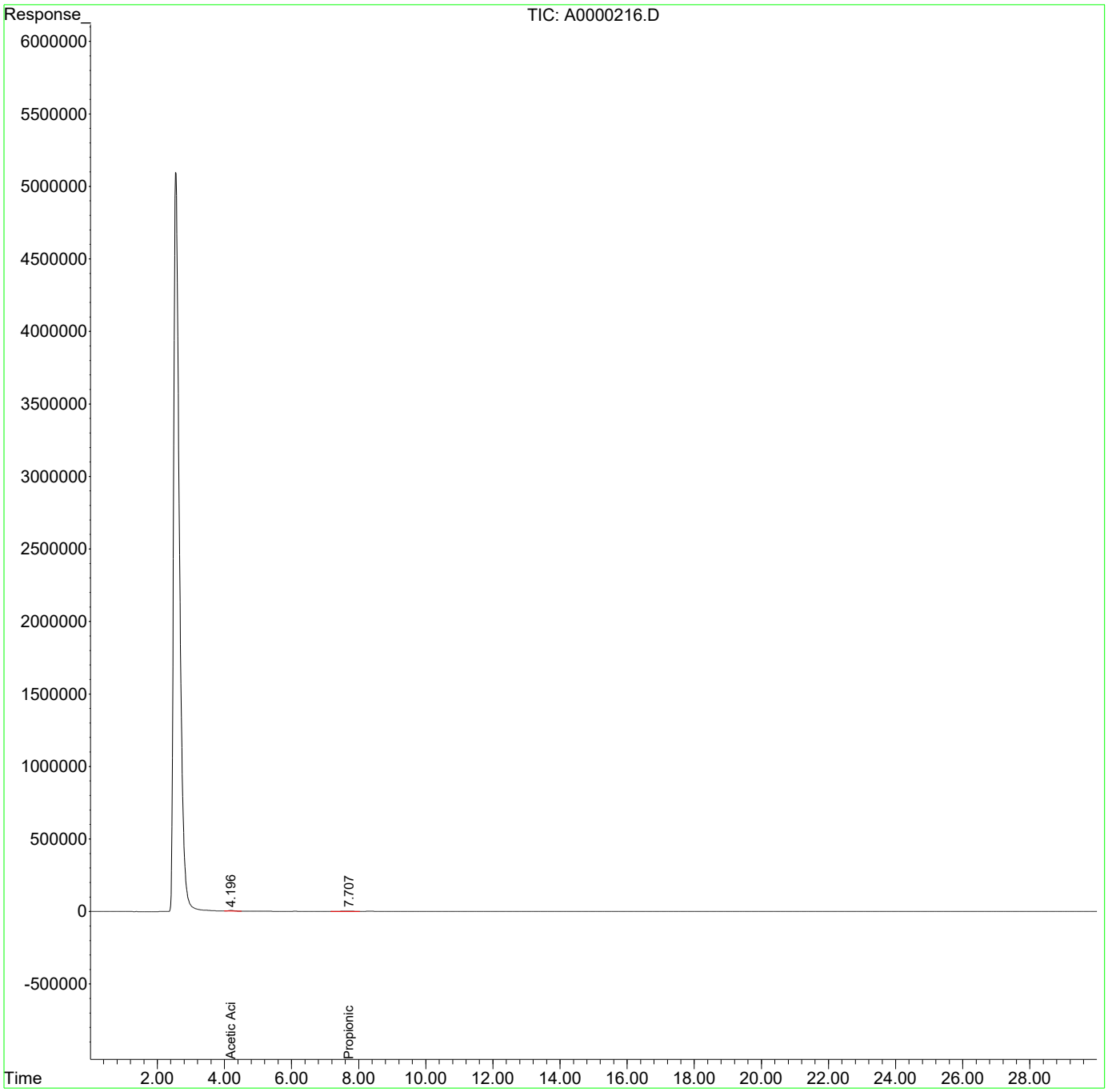
(f)=RT Delta > 1/2 Window (m)=manual int.

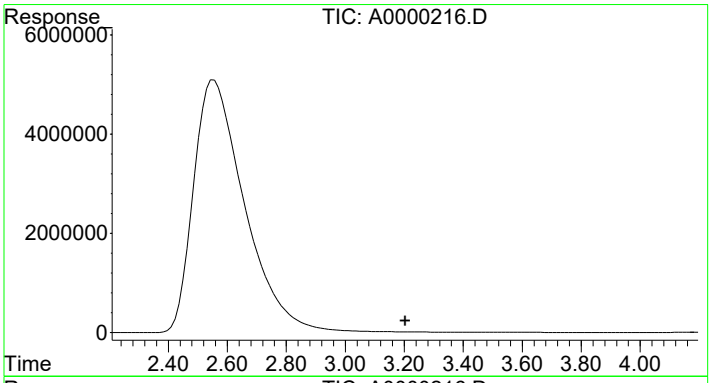
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000216.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 04:59:07
Operator : AFelser
Sample : R2408139-010
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:02 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

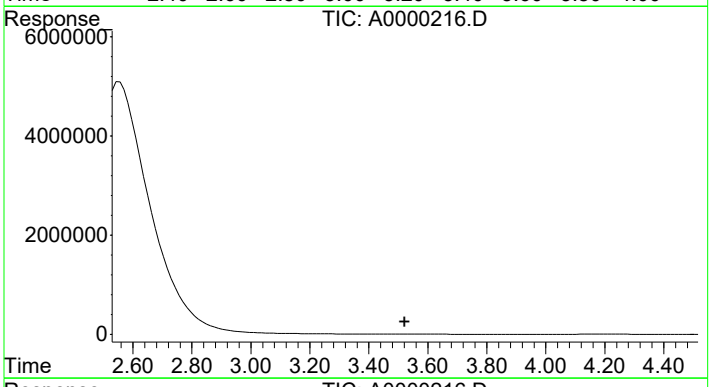
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





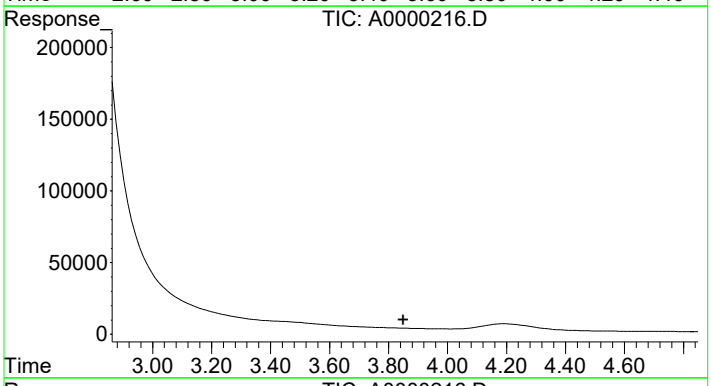
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.204 min
Response: 0
Conc: N.D.



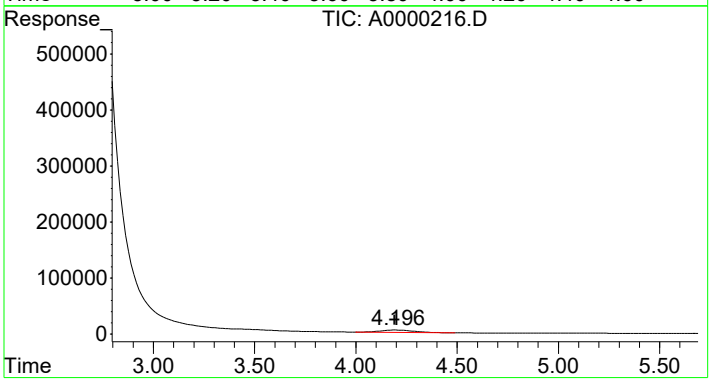
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.521 min
Response: 0
Conc: N.D.



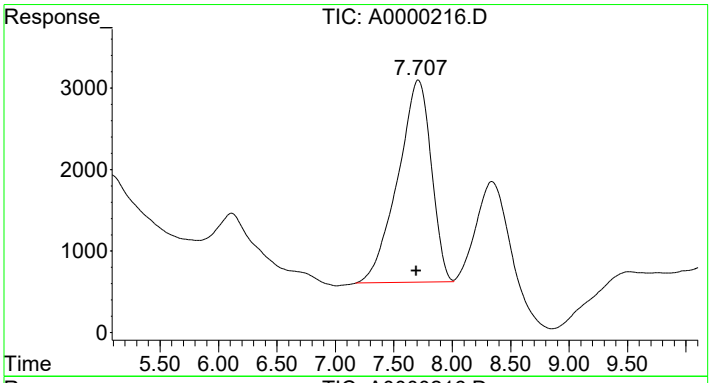
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.851 min
Response: 0
Conc: N.D.



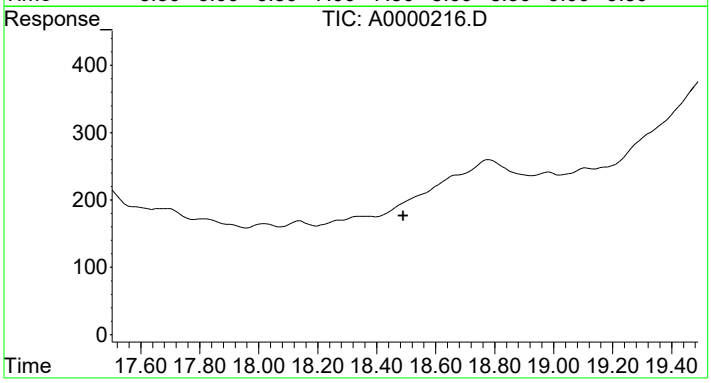
#4 Acetic Acid

R.T.: 4.196 min
Delta R.T.: 0.004 min
Response: 480110
Conc: 9.20 ppm m



#5 Propionic Acid

R.T.: 7.707 min
Delta R.T.: 0.014 min
Response: 494012
Conc: 9.26 ppm m



#6 Butyric Acid

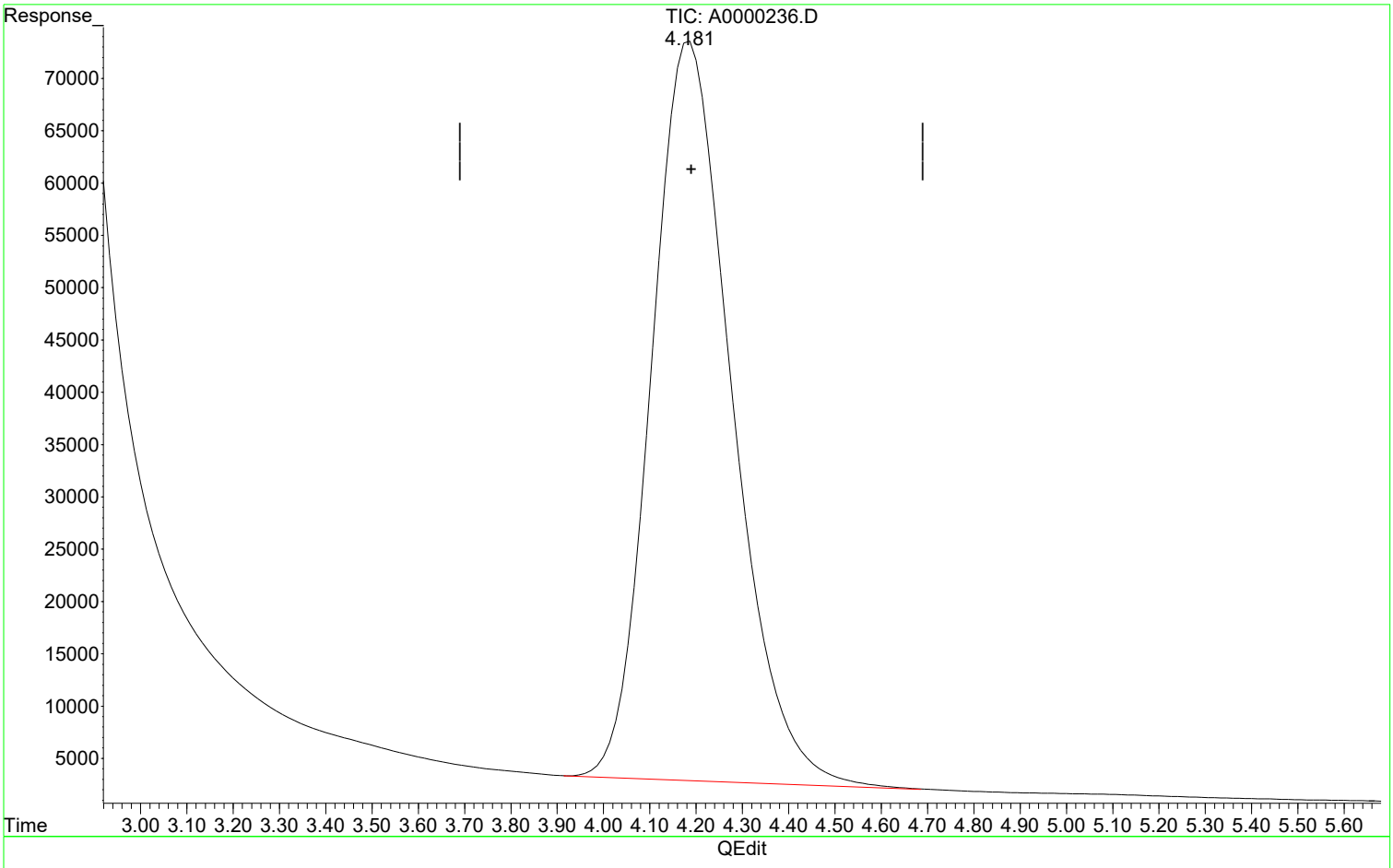
R.T.: 0.000 min
Exp R.T. : 18.491 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000236.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 19:42:40
Operator : AFelser
Sample : R2408139-012|5
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:04:26 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.181min 163.700 ppm m

response 8543281

Manual Integration:

After

Poor integration.

09/17/24

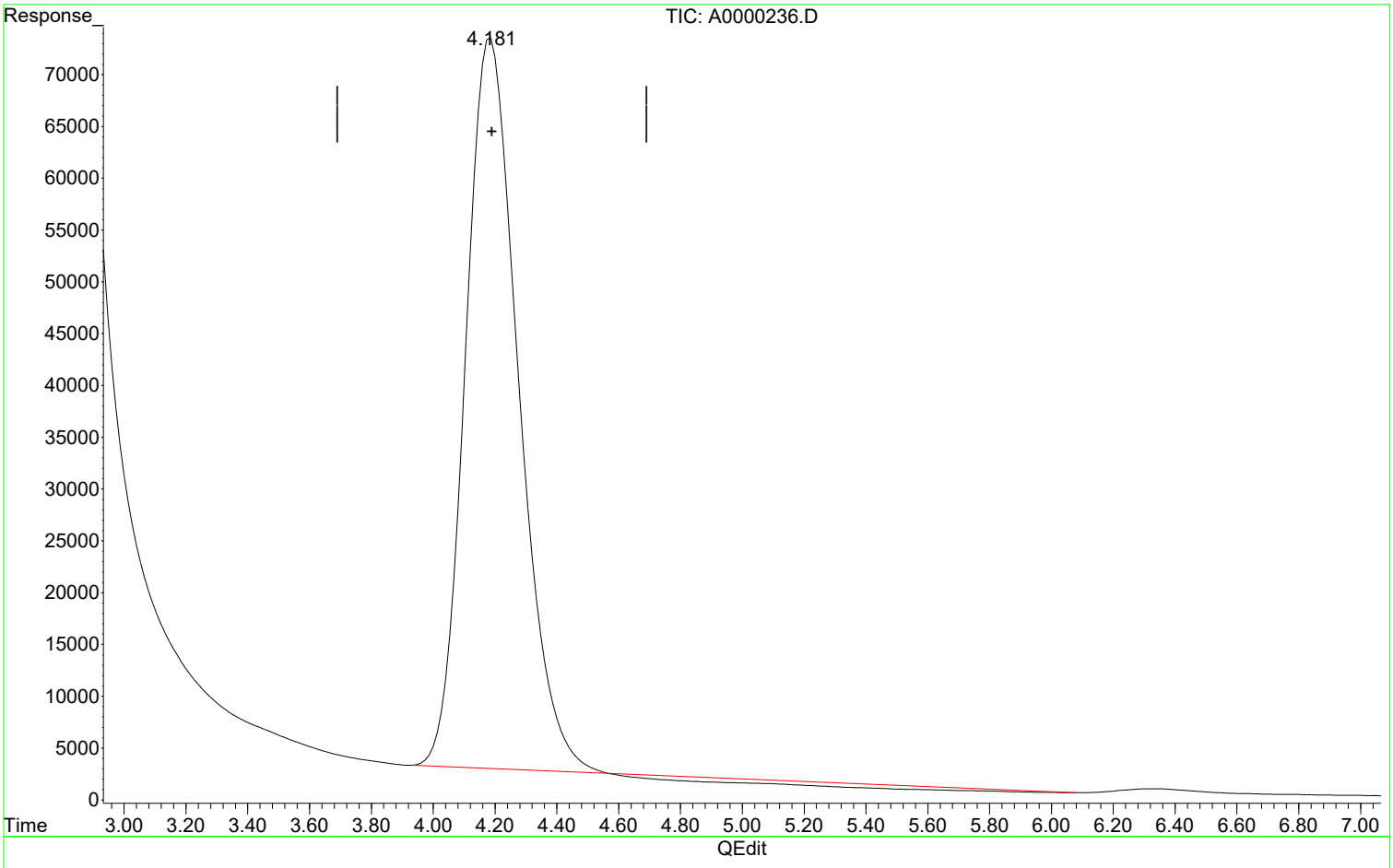
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000236.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 19:42:40
Operator : AFelser
Sample : R2408139-012|5
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:04:26 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.186min 157.377 ppm

response 8213273

Manual Integration:

Before

09/17/24

(+) = Expected Retention Time

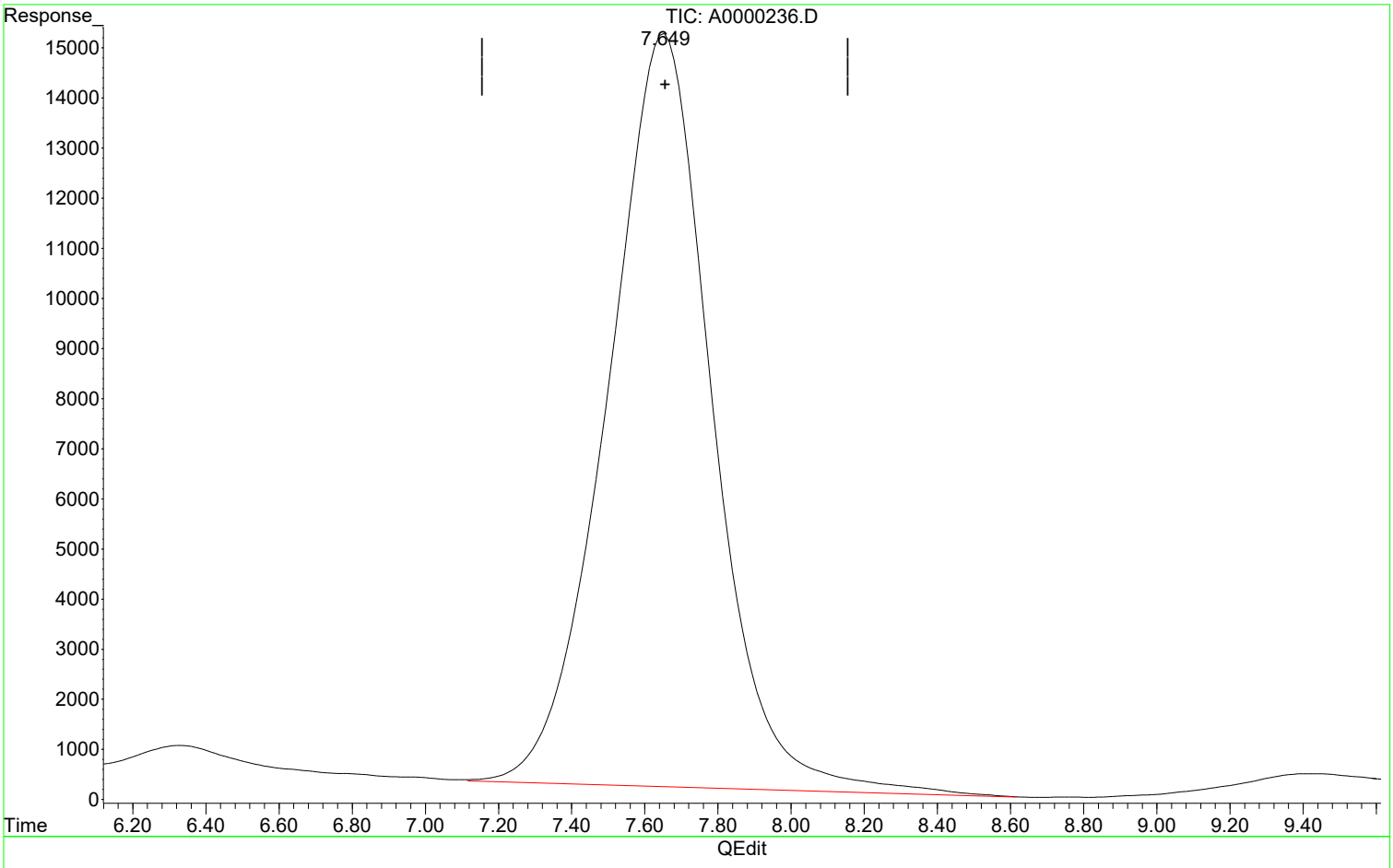
1st AF 09/17/24
2nd AM 09/18/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000236.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 19:42:40
Operator : AFelser
Sample : R2408139-012|5
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:04:26 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.649min 55.880 ppm m

response 2979830

Manual Integration:

After

Poor integration.

09/17/24

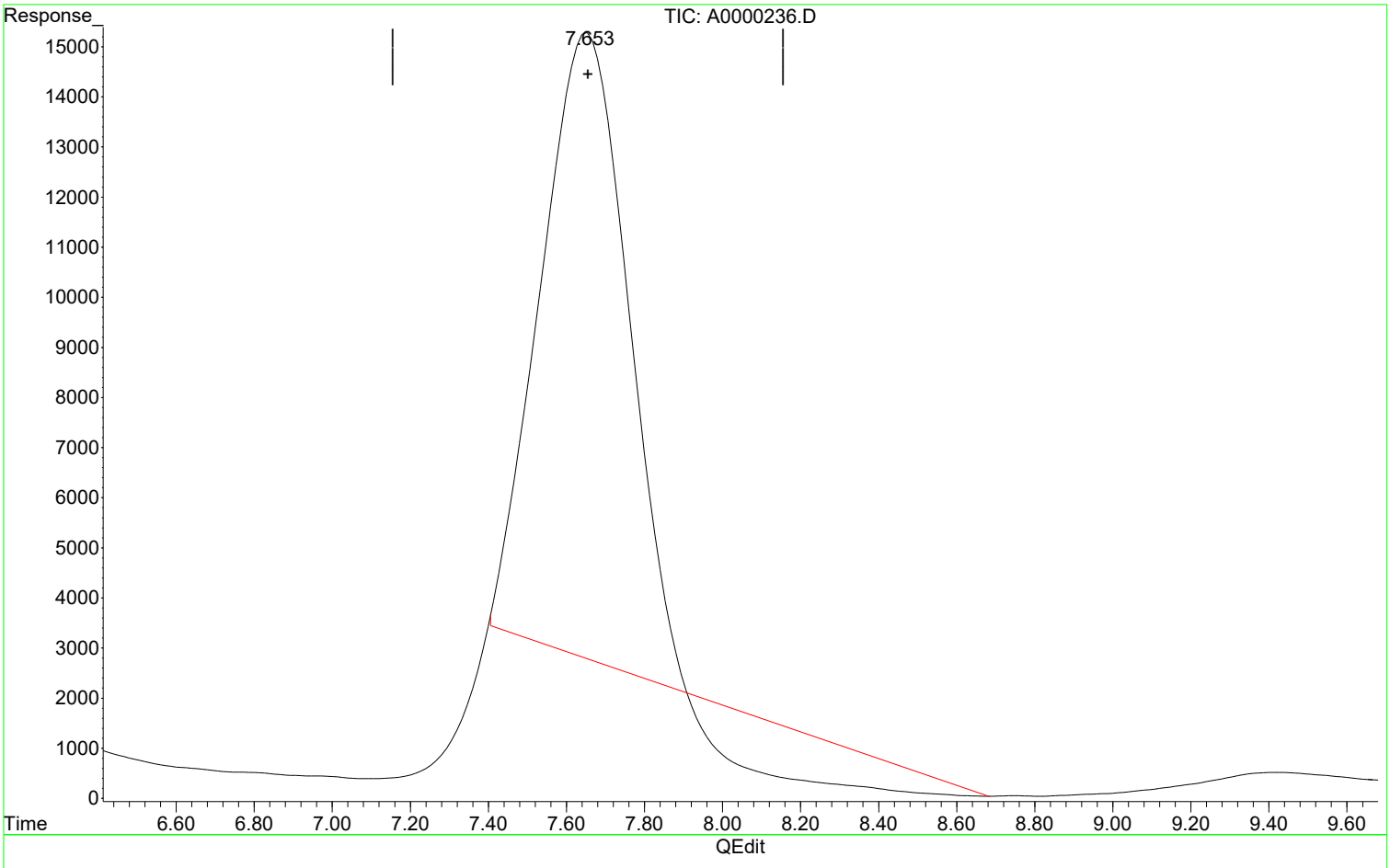
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000236.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 19:42:40
Operator : AFelser
Sample : R2408139-012|5
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:04:26 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.655min 30.905 ppm

response 1648017

Manual Integration:

Before

09/17/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000236.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 19:42:40
Operator : AFelser
Sample : R2408139-012|5
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:04:26 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	4.181	8543281	163.700	ppm	m
5) T	Propionic Acid	7.649	2979830	55.880	ppm	m
6) T	Butyric Acid	18.310	7249263	97.293	ppm	

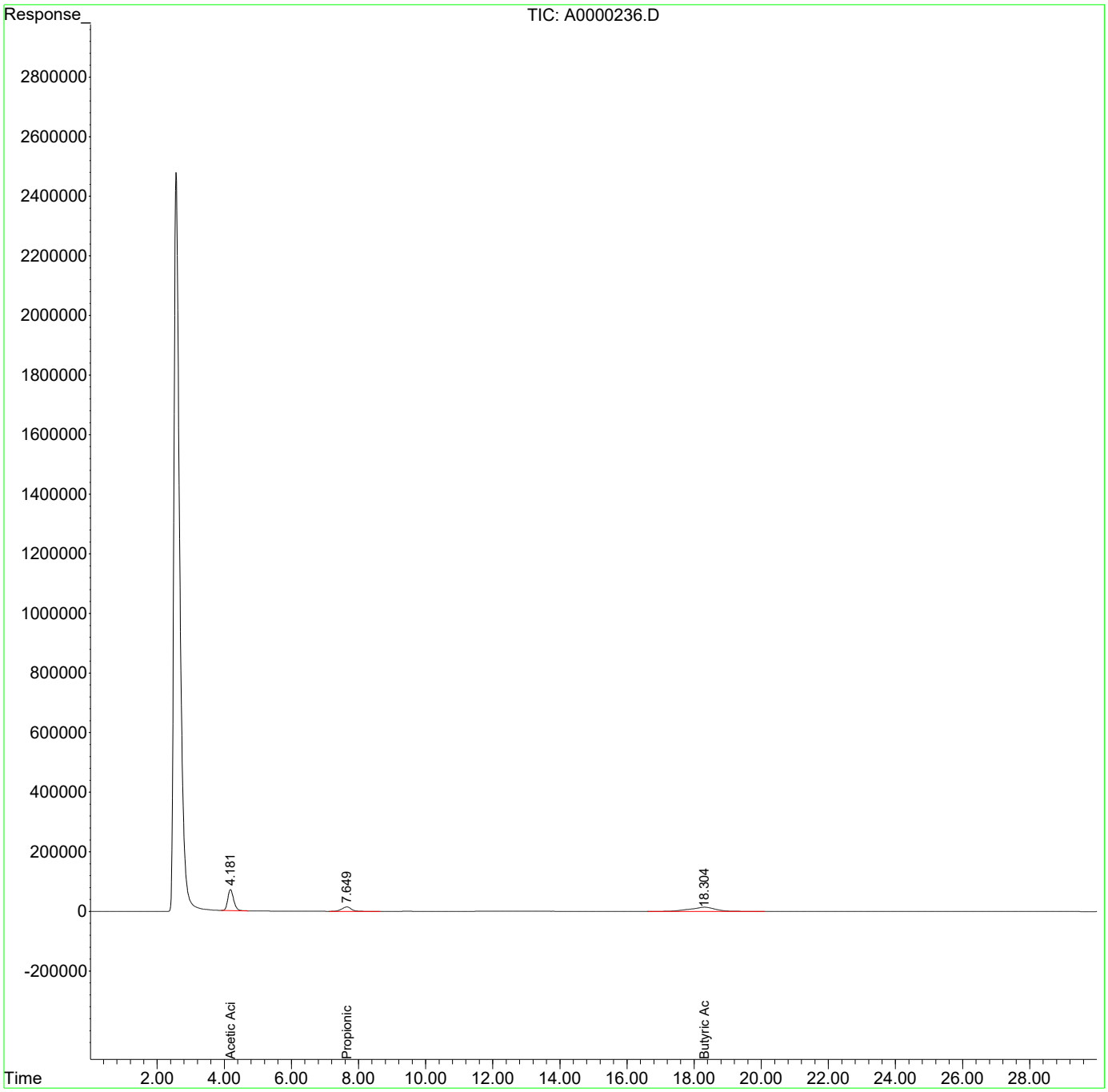
(f)=RT Delta > 1/2 Window (m)=manual int.

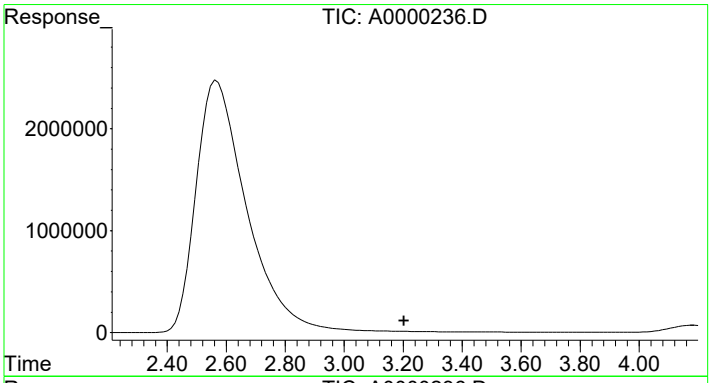
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000236.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 19:42:40
Operator : AFelser
Sample : R2408139-012|5
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:04:26 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation

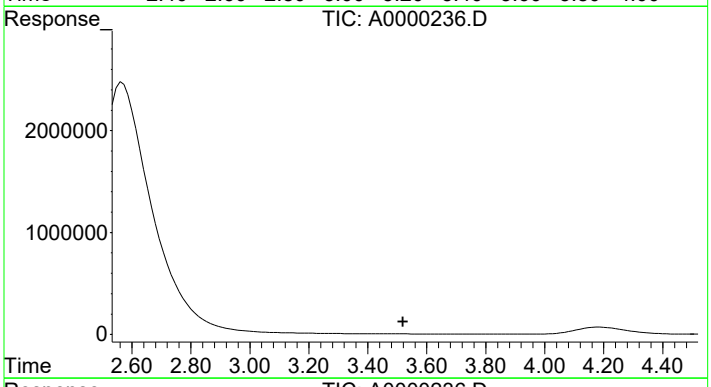
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





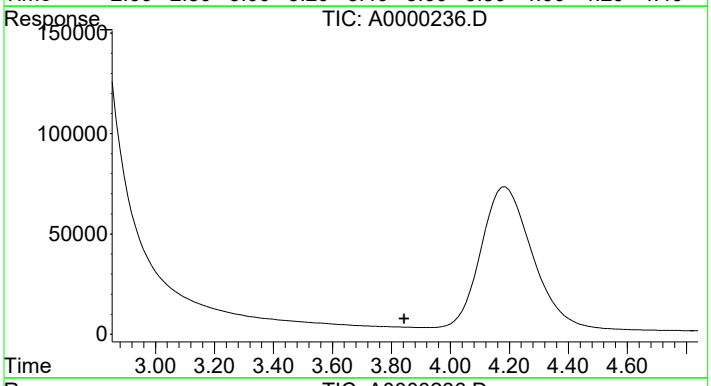
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.203 min
Response: 0
Conc: N.D.



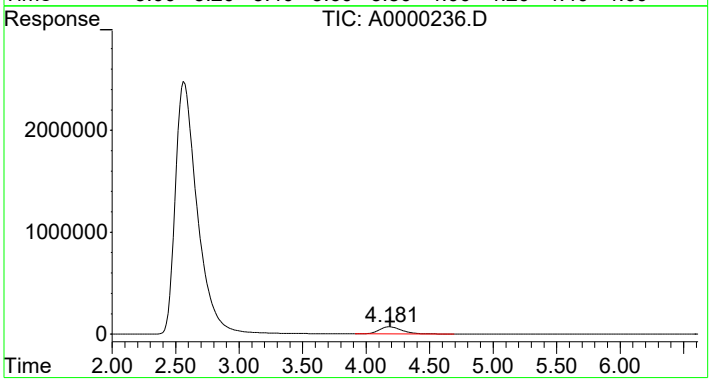
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.520 min
Response: 0
Conc: N.D.



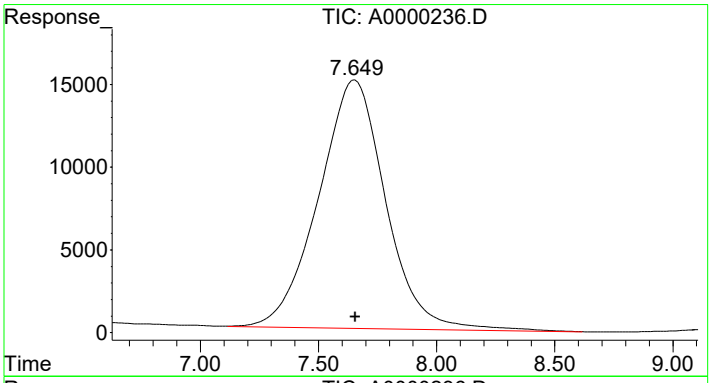
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.844 min
Response: 0
Conc: N.D.



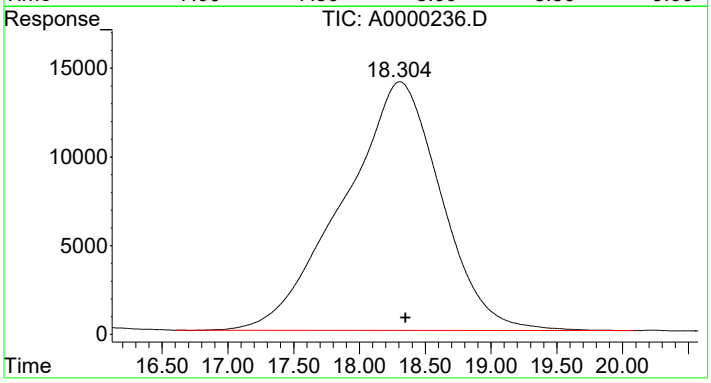
#4 Acetic Acid

R.T.: 4.181 min
Delta R.T.: -0.009 min
Response: 8543281
Conc: 163.70 ppm m



#5 Propionic Acid

R.T.: 7.649 min
Delta R.T.: -0.007 min
Response: 2979830
Conc: 55.88 ppm m



#6 Butyric Acid

R.T.: 18.310 min
Delta R.T.: -0.041 min
Response: 7249263
Conc: 97.29 ppm

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000218.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 06:02:42
Operator : AFelser
Sample : R2408139-013
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:06 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	d
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	0.000	0	N.D.	ppm	d
5) T	Propionic Acid	0.000	0	N.D.	ppm	
6) T	Butyric Acid	0.000	0	N.D.	ppm	

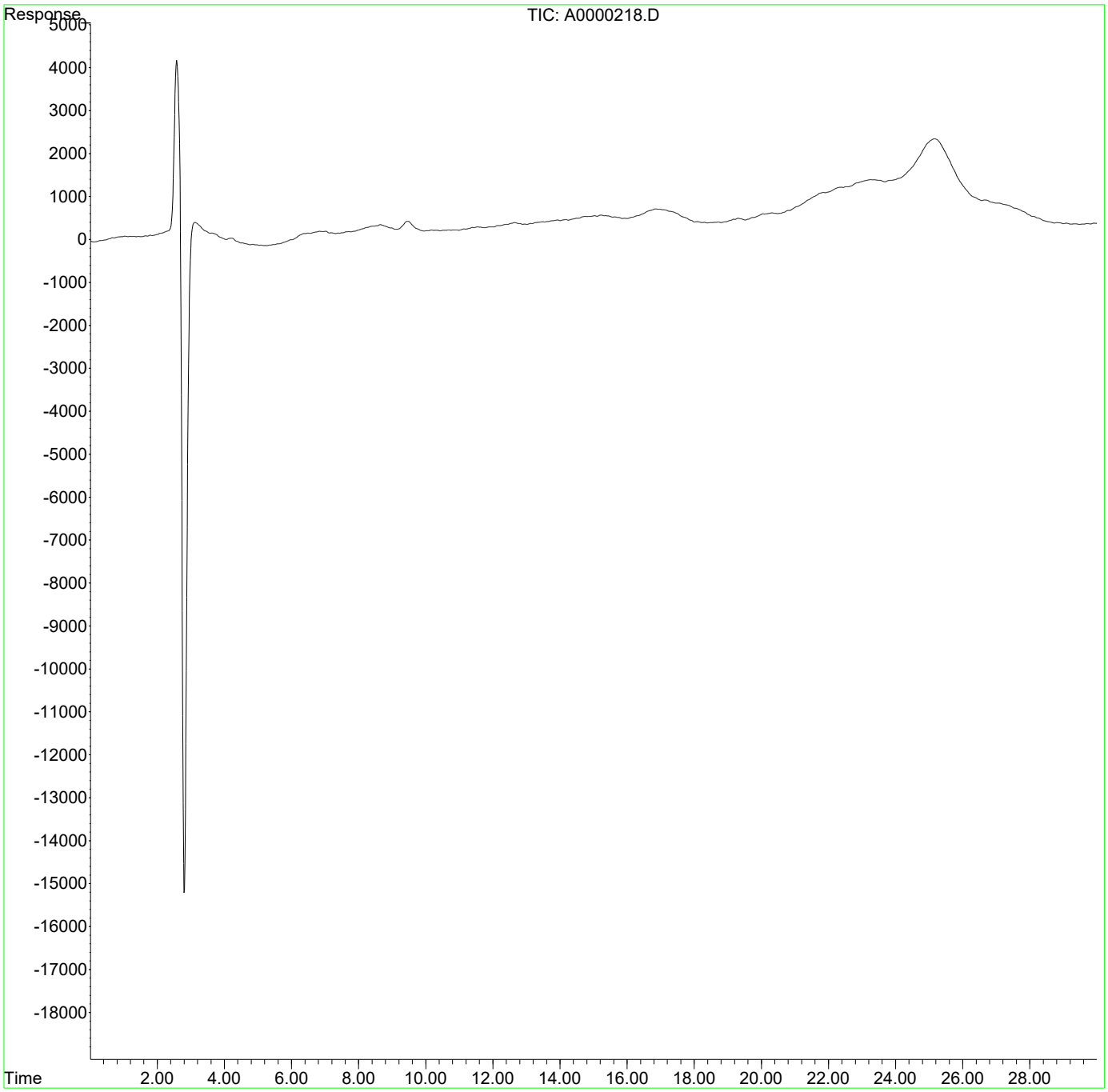
(f)=RT Delta > 1/2 Window (m)=manual int.

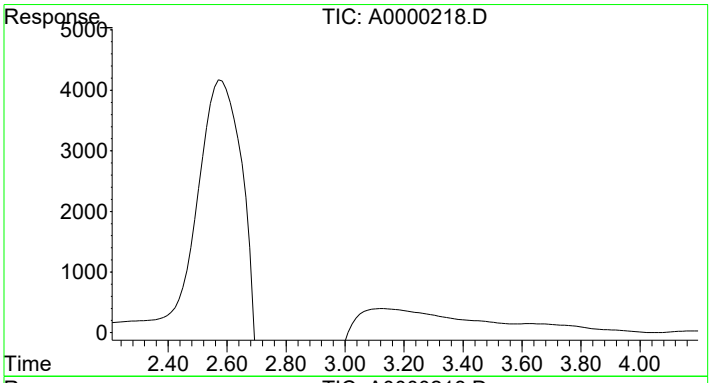
1st AF 09/09/24
2nd AM 09/09/24

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000218.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 06:02:42
Operator : AFelser
Sample : R2408139-013
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:06 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

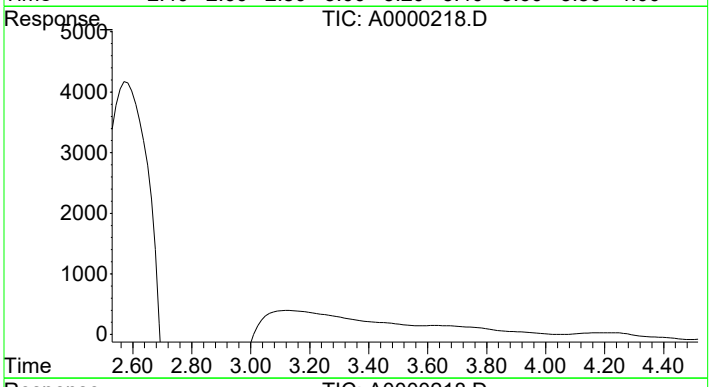
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





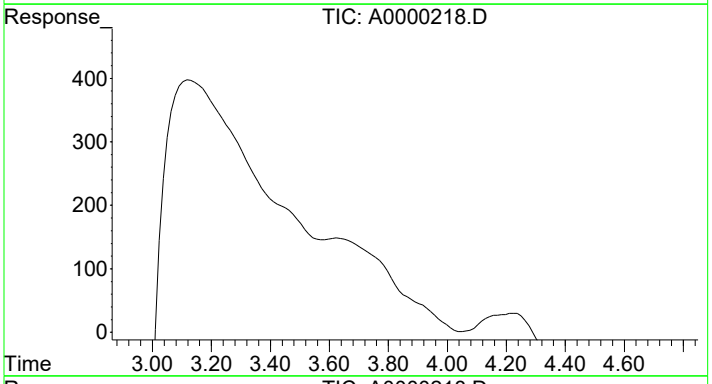
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.204 min
Response: 0
Conc: N.D.



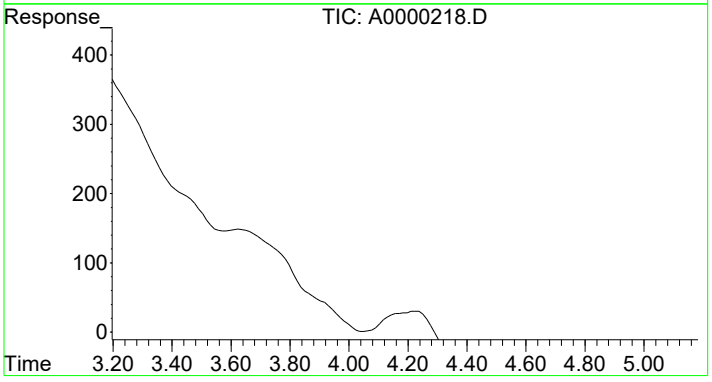
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.521 min
Response: 0
Conc: N.D.



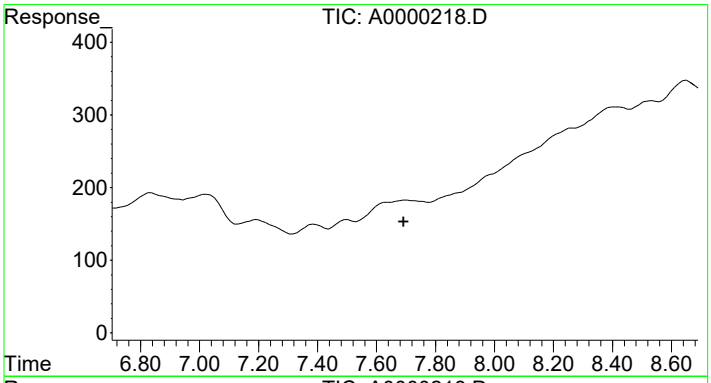
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.851 min
Response: 0
Conc: N.D.



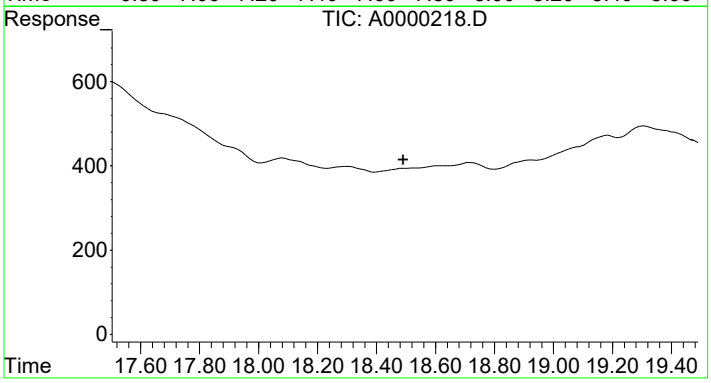
#4 Acetic Acid

R.T.: 0.000 min
Exp R.T. : 4.192 min
Response: 0
Conc: N.D.



#5 Propionic Acid

R.T.: 0.000 min
Exp R.T. : 7.693 min
Response: 0
Conc: N.D.



#6 Butyric Acid

R.T.: 0.000 min
Exp R.T. : 18.491 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000203.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 22:05:59
Operator : AFelser
Sample : MB
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:08 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) t	Formic acid	0.000	0	N.D.	ppm
2) T	Pyruvic acid	0.000	0	N.D.	ppm
3) T	Lactic Acid	0.000	0	N.D.	ppm
4) T	Acetic Acid	0.000	0	N.D.	ppm
5) T	Propionic Acid	0.000	0	N.D.	ppm
6) T	Butyric Acid	0.000	0	N.D.	ppm

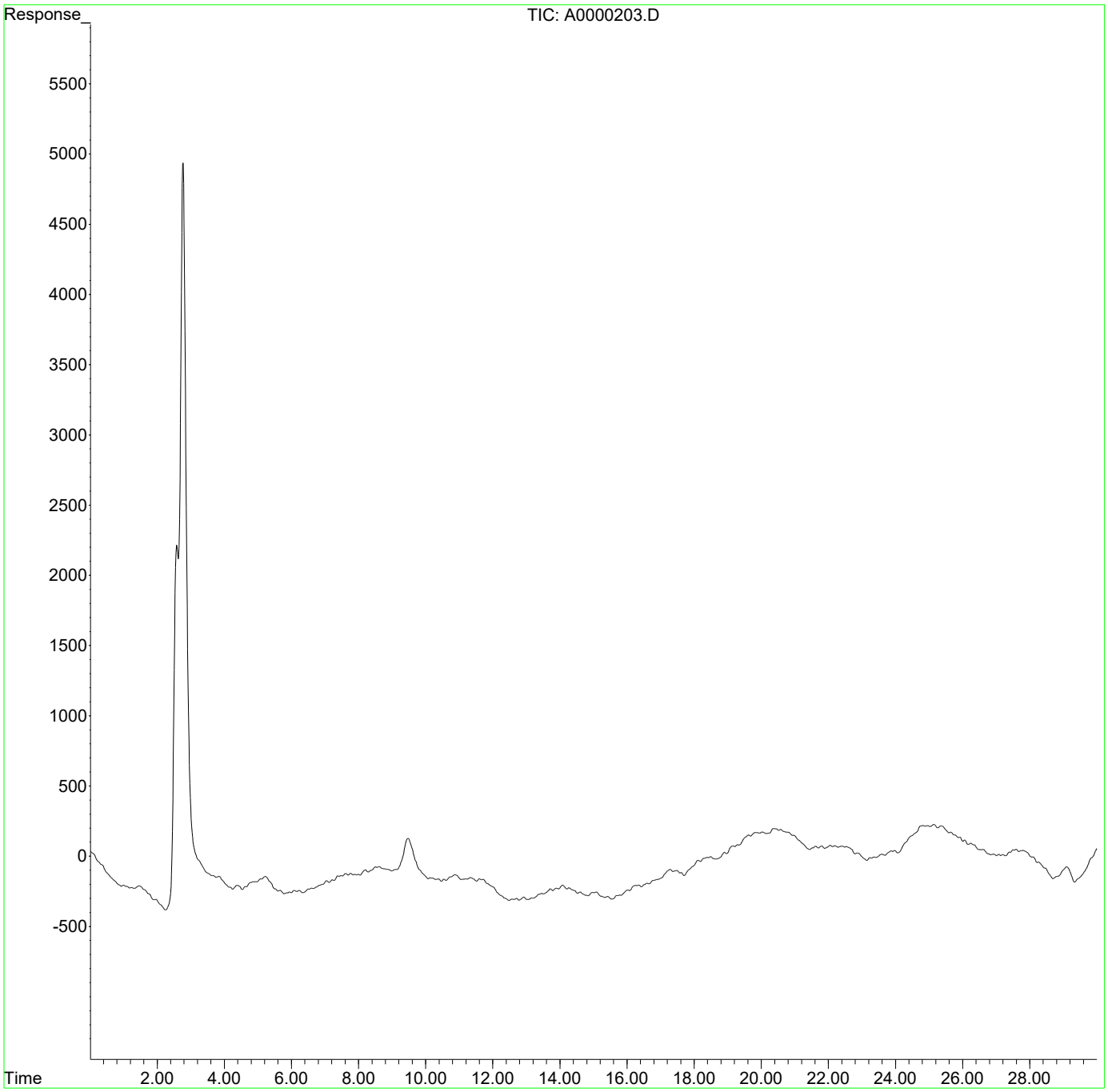
(f)=RT Delta > 1/2 Window (m)=manual int.

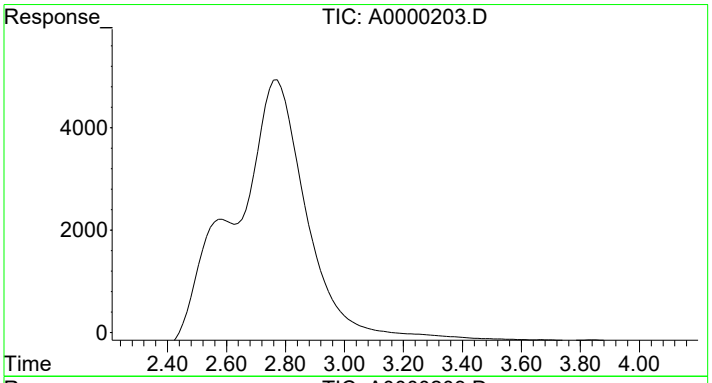
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000203.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 22:05:59
Operator : AFelser
Sample : MB
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:08 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

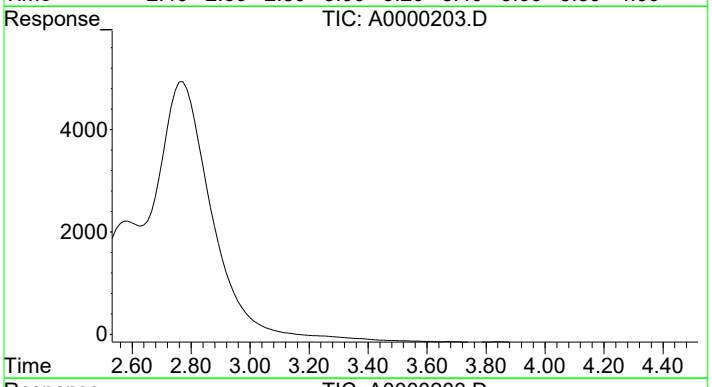
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





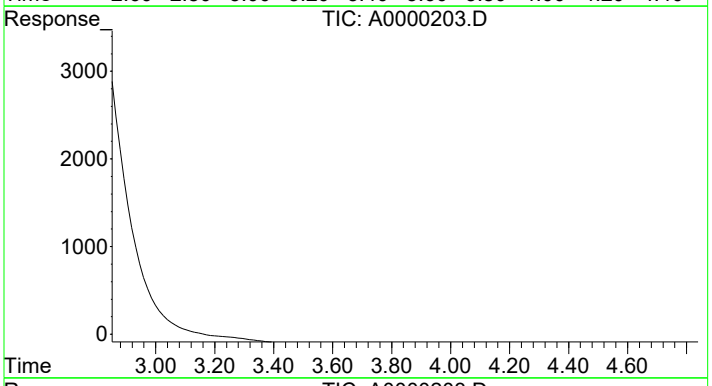
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.204 min
Response: 0
Conc: N.D.



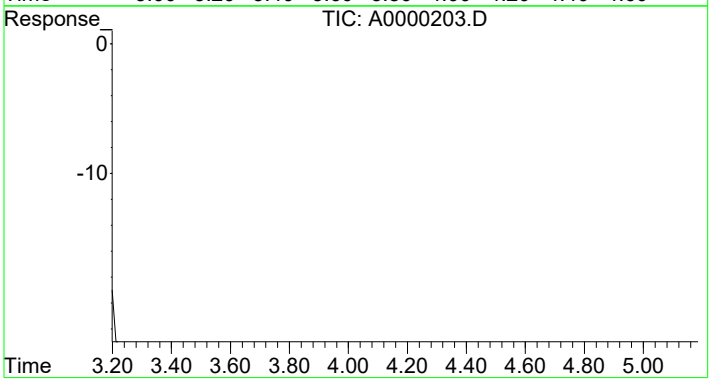
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.523 min
Response: 0
Conc: N.D.



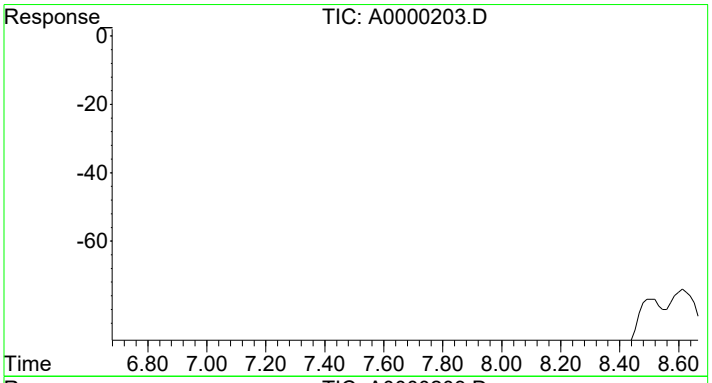
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.850 min
Response: 0
Conc: N.D.



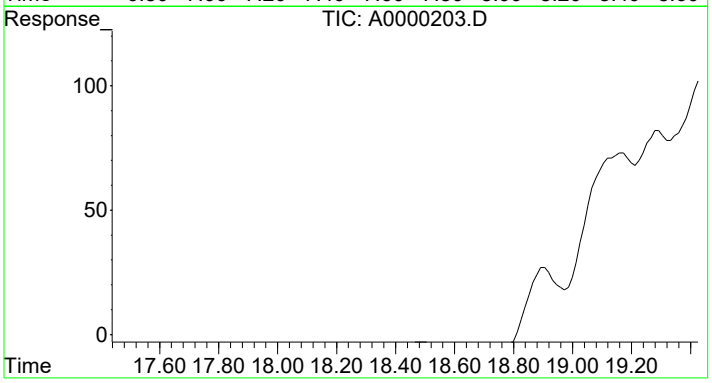
#4 Acetic Acid

R.T.: 0.000 min
Exp R.T. : 4.189 min
Response: 0
Conc: N.D.



#5 Propionic Acid

R.T.: 0.000 min
Exp R.T. : 7.676 min
Response: 0
Conc: N.D.



#6 Butyric Acid

R.T.: 0.000 min
Exp R.T. : 18.426 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000233.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 18:07:19
Operator : AFelser
Sample : MB
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:04:20 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	0.000	0	N.D.	ppm	
5) T	Propionic Acid	0.000	0	N.D.	ppm	
6) T	Butyric Acid	0.000	0	N.D.	ppm	d

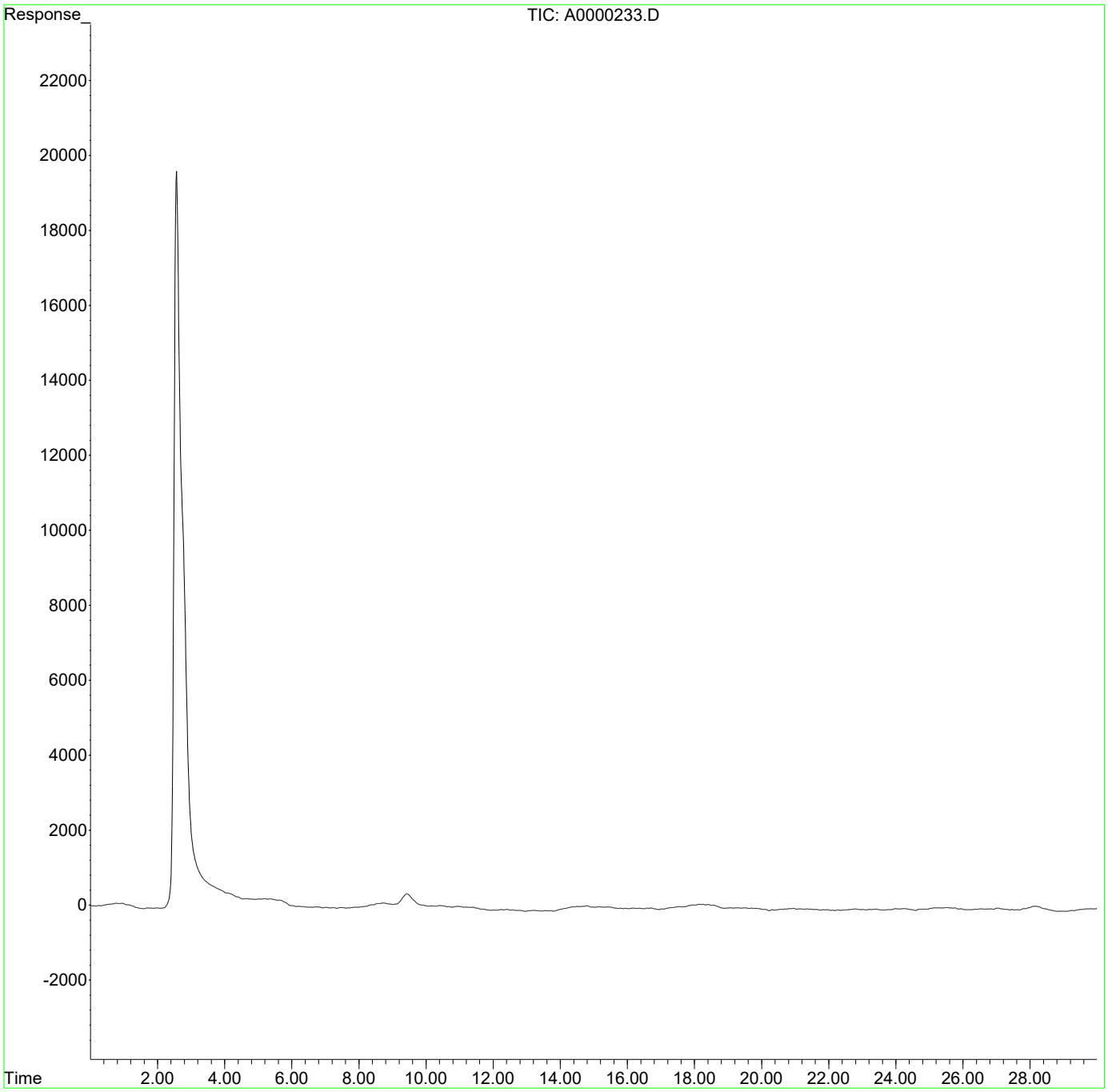
(f)=RT Delta > 1/2 Window (m)=manual int.

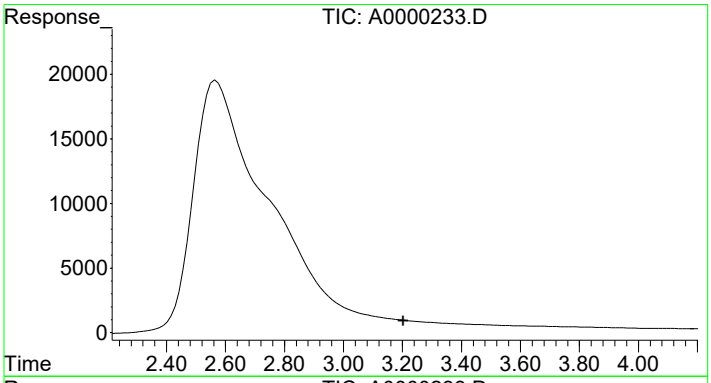
1st AF 09/17/24
2nd AM 09/18/24

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000233.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 18:07:19
Operator : AFelser
Sample : MB
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:04:20 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation

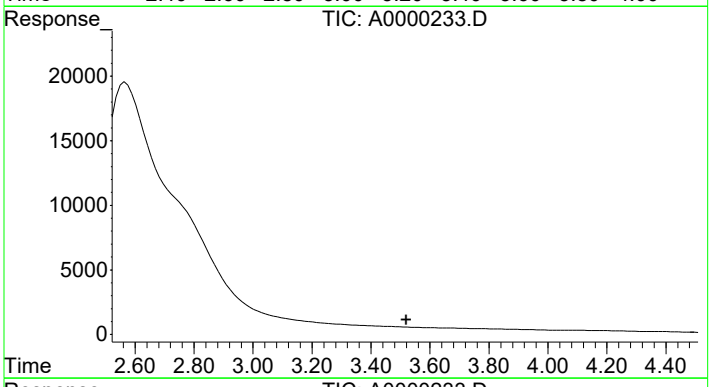
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





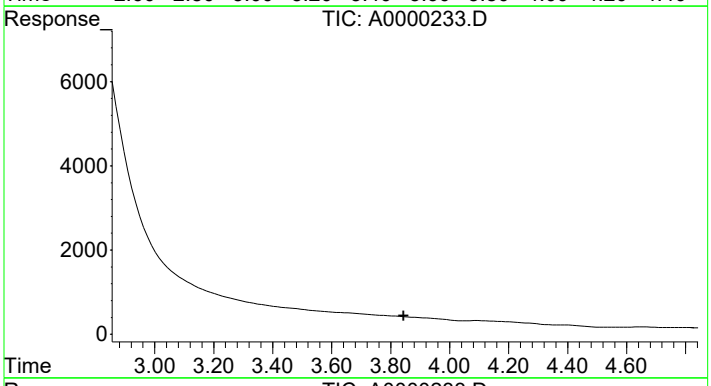
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.203 min
Response: 0
Conc: N.D.



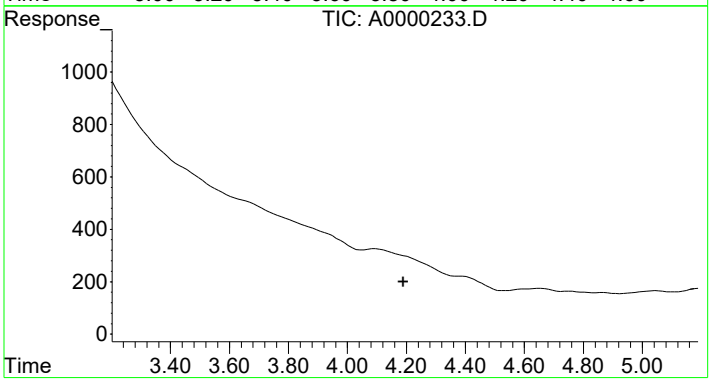
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.520 min
Response: 0
Conc: N.D.



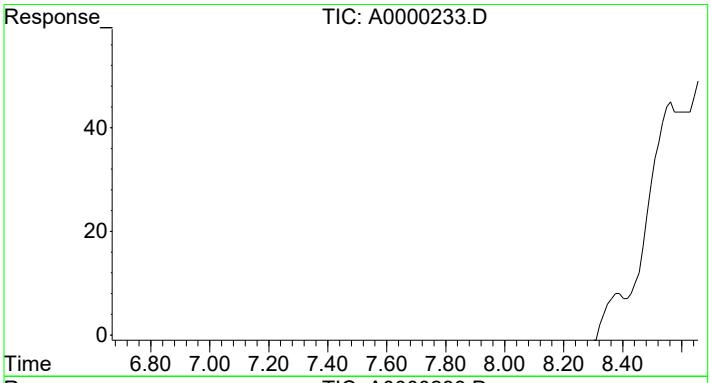
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.844 min
Response: 0
Conc: N.D.



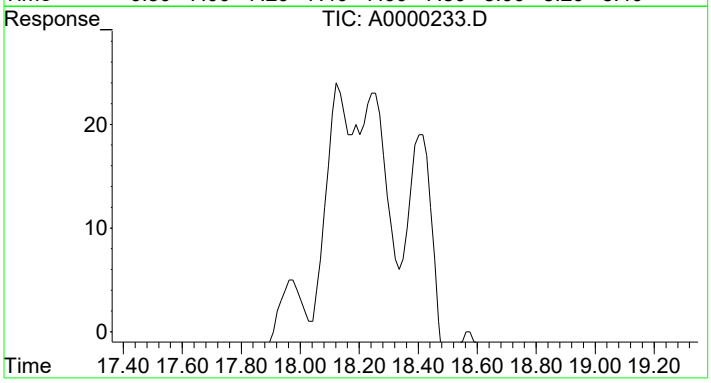
#4 Acetic Acid

R.T.: 0.000 min
Exp R.T. : 4.190 min
Response: 0
Conc: N.D.



#5 Propionic Acid

R.T.: 0.000 min
Exp R.T. : 7.656 min
Response: 0
Conc: N.D.



#6 Butyric Acid

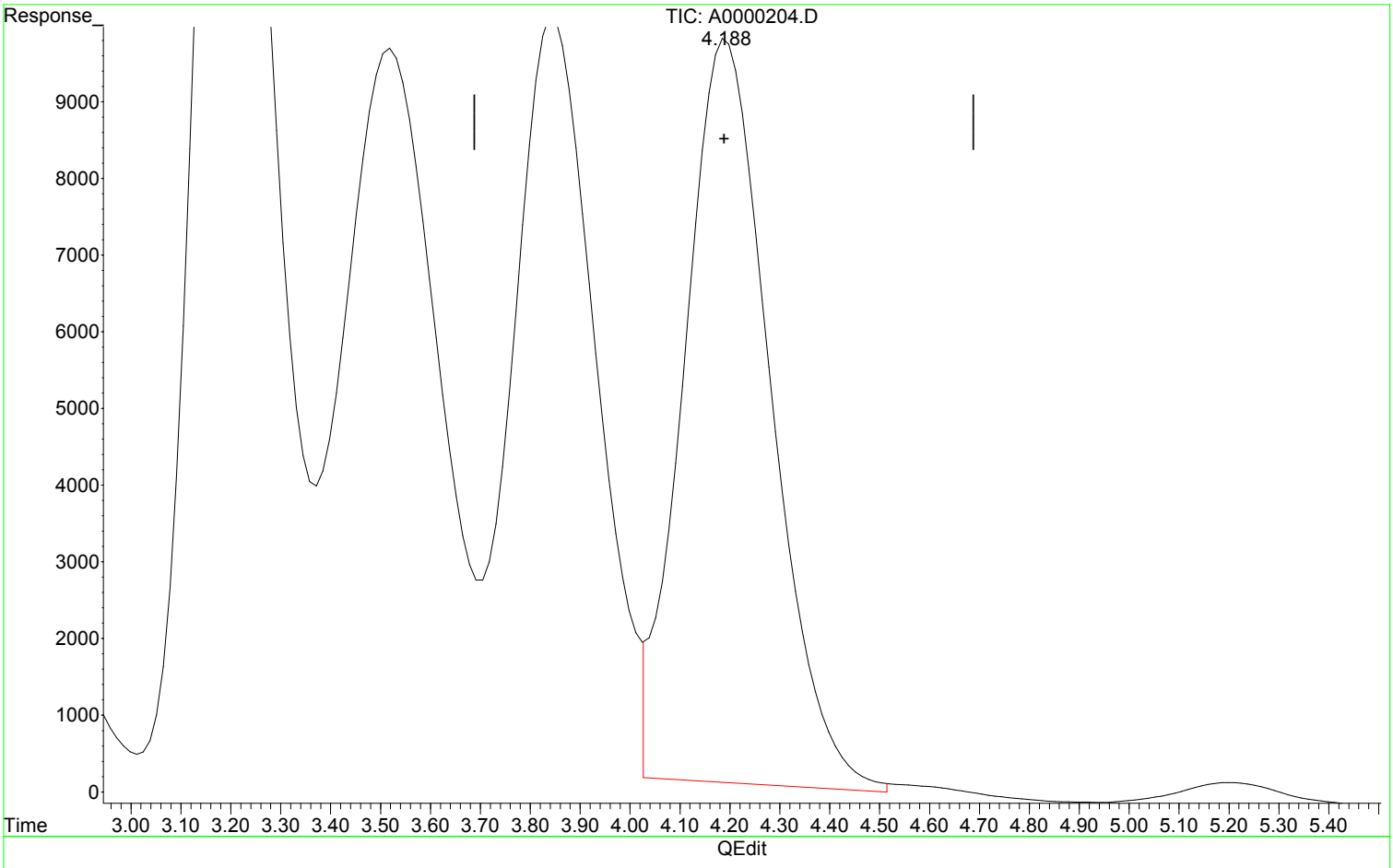
R.T.: 0.000 min
Exp R.T. : 18.351 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000204.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 22:37:46
Operator : AFelser
Sample : LCS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:10 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.188min 22.535 ppm m

response 1176051

Manual Integration:

After

Poor integration.

09/05/24

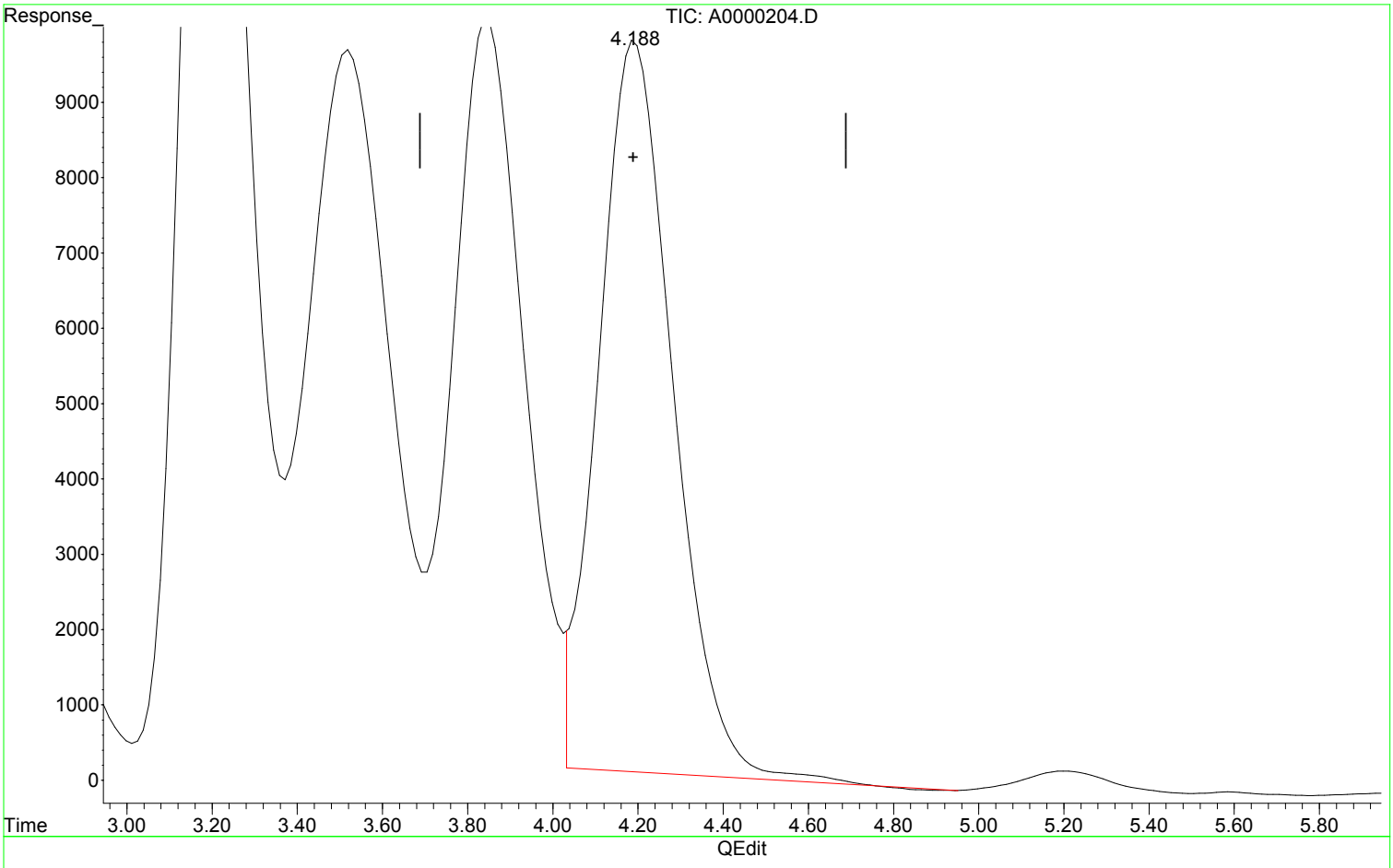
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000204.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 22:37:46
Operator : AFelser
Sample : LCS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:10 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.194min 22.737 ppm

response 1186607

Manual Integration:

Before

09/05/24

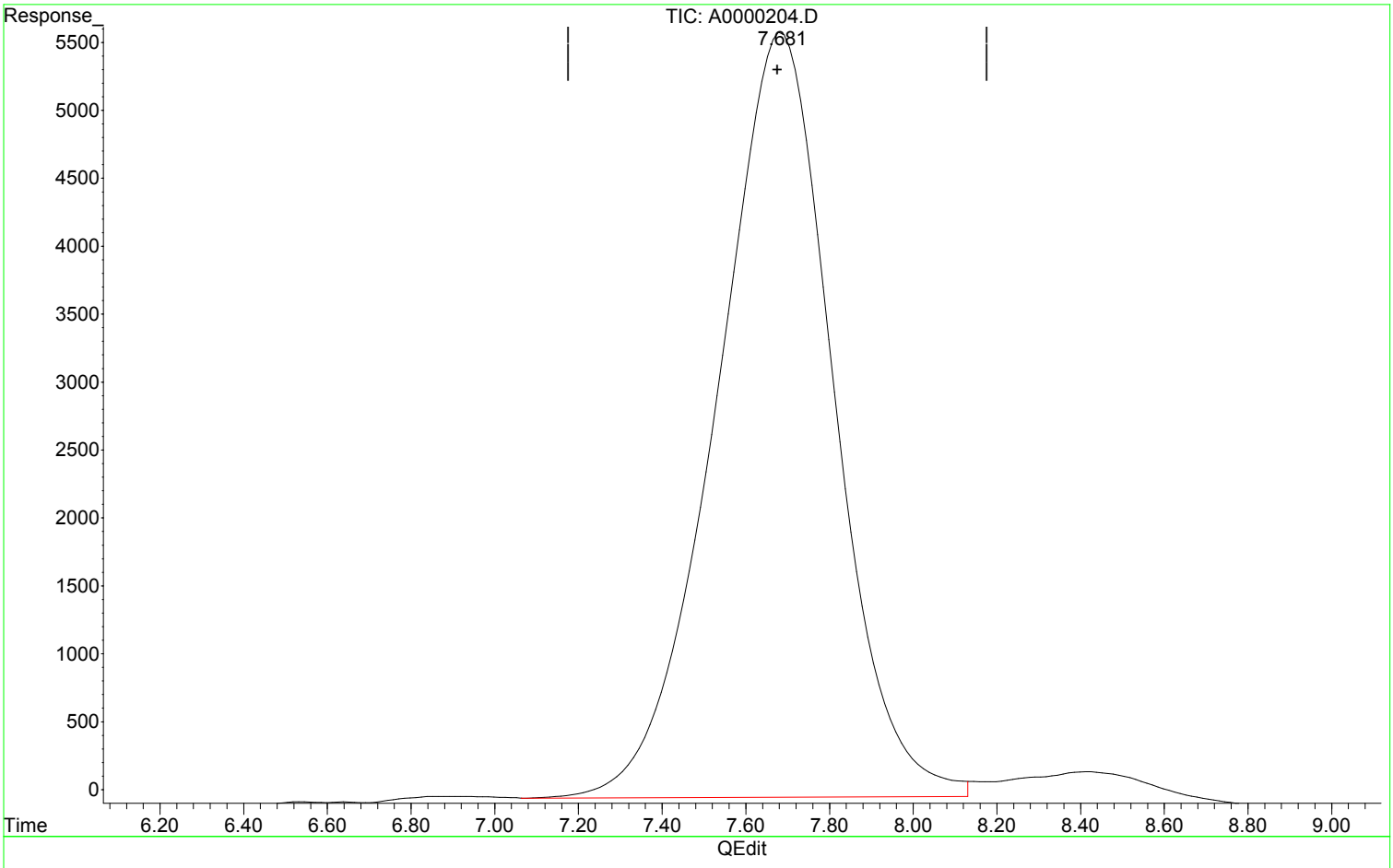
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000204.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 22:37:46
Operator : AFelser
Sample : LCS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:10 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.681min 20.401 ppm m

response 1087919

Manual Integration:

After

Poor integration.

09/05/24

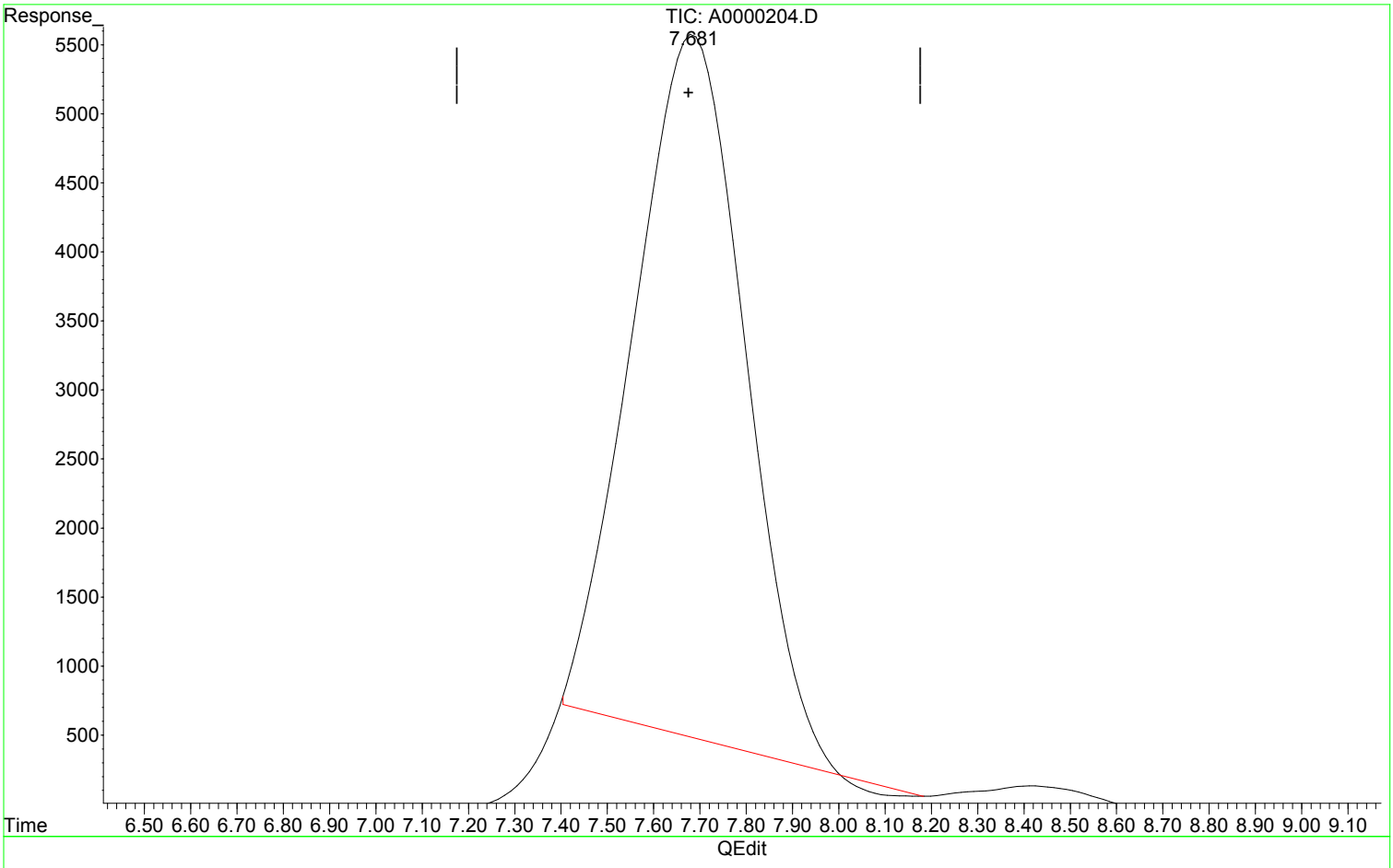
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000204.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 22:37:46
Operator : AFelser
Sample : LCS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:10 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.687min 15.994 ppm

response 852870

Manual Integration:

Before

09/05/24

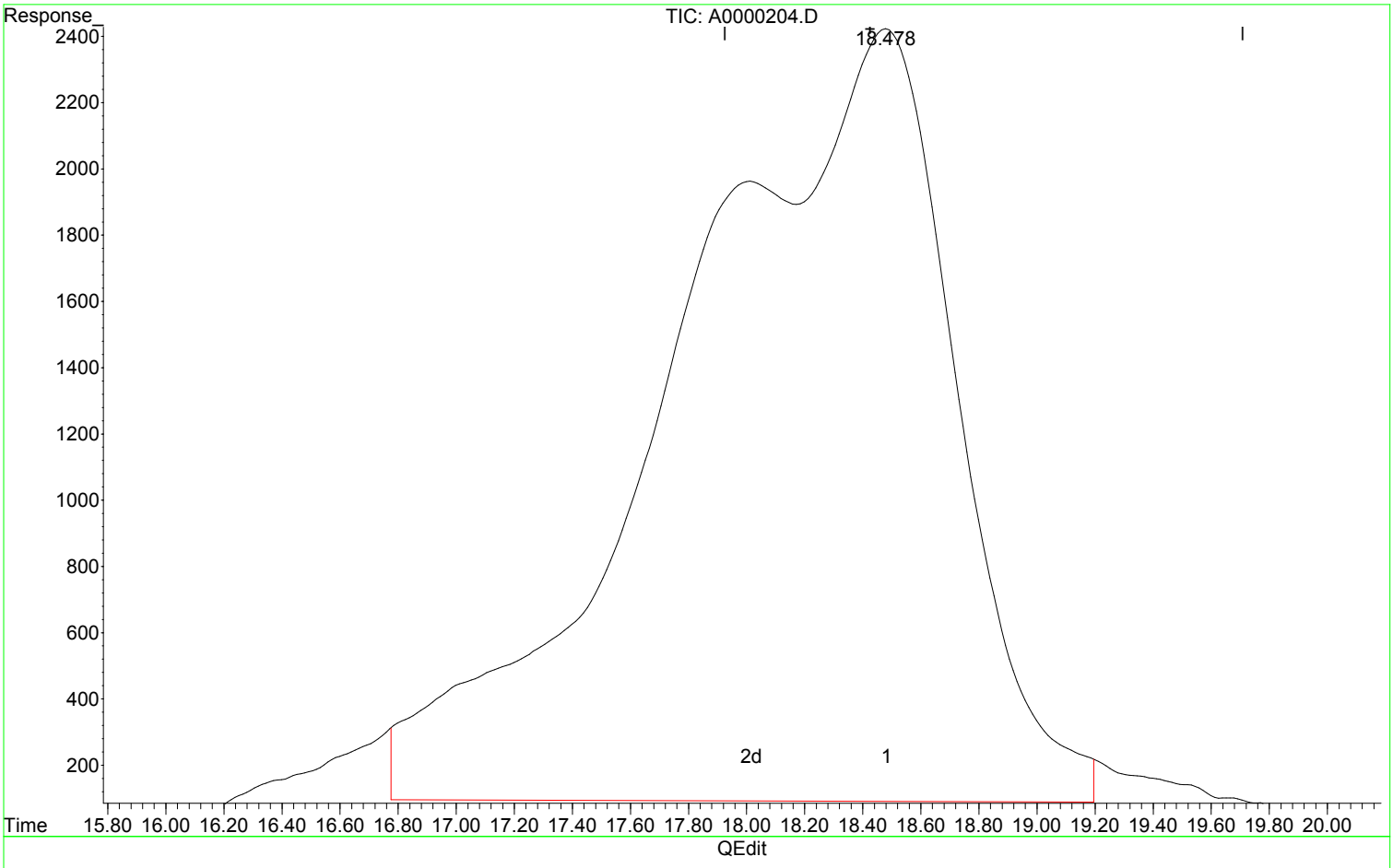
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000204.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 22:37:46
Operator : AFelser
Sample : LCS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:10 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.478min 20.777 ppm m

response 1548118

Manual Integration:

After

Poor integration.

09/05/24

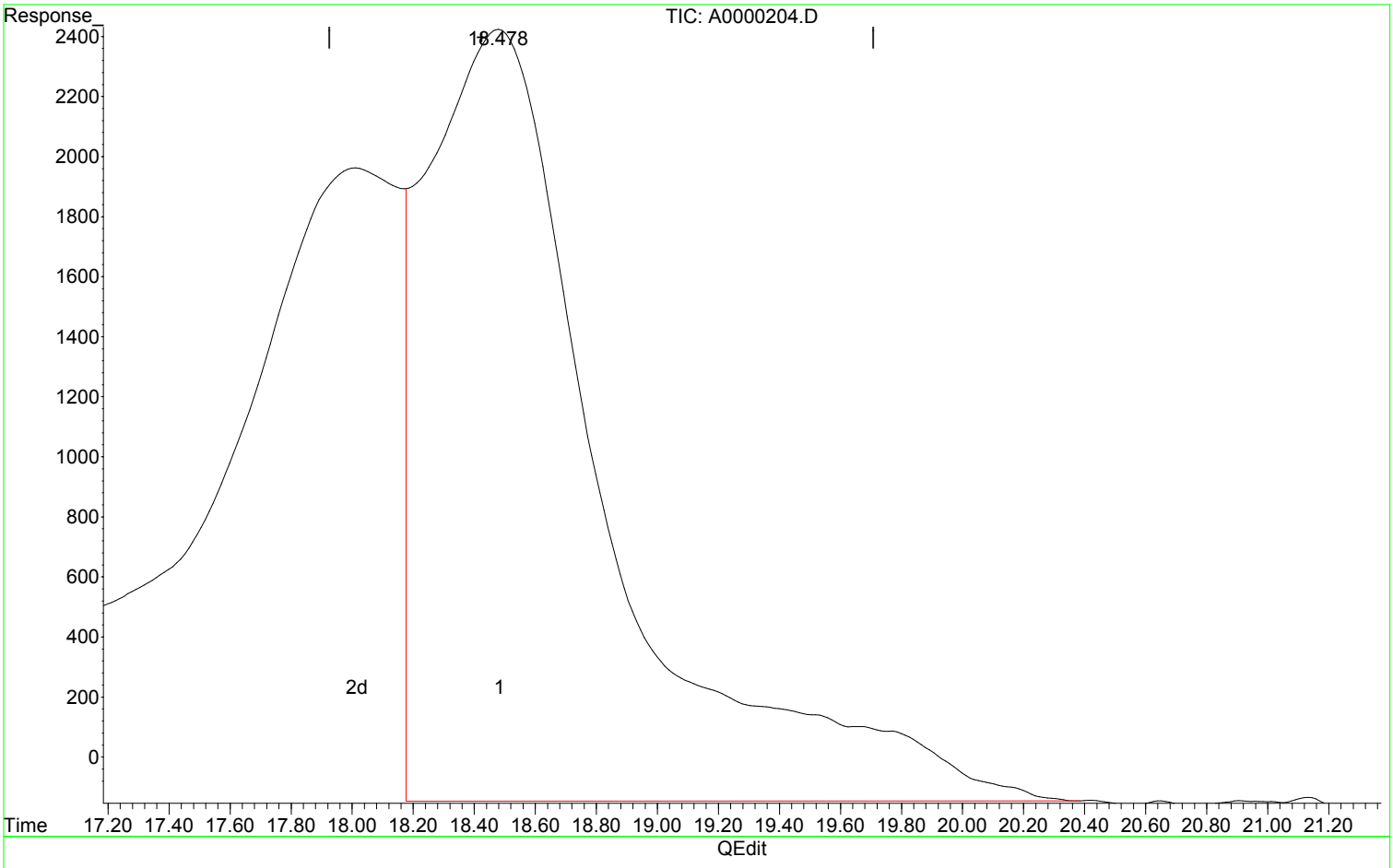
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000204.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 22:37:46
Operator : AFelser
Sample : LCS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:10 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.483min 14.288 ppm

response 1064580

Manual Integration:

Before

09/05/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000204.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 22:37:46
Operator : AFelser
Sample : LCS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:10 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.202	1845870	21.269	ppm	
2) T	Pyruvic acid	3.522	1226013	2.239	ppm	
3) T	Lactic Acid	3.848	1142565	22.607	ppm	
4) T	Acetic Acid	4.188	1176051	22.535	ppm	m
5) T	Propionic Acid	7.681	1087919	20.401	ppm	m
6) T	Butyric Acid	18.478	1548118	20.777	ppm	m

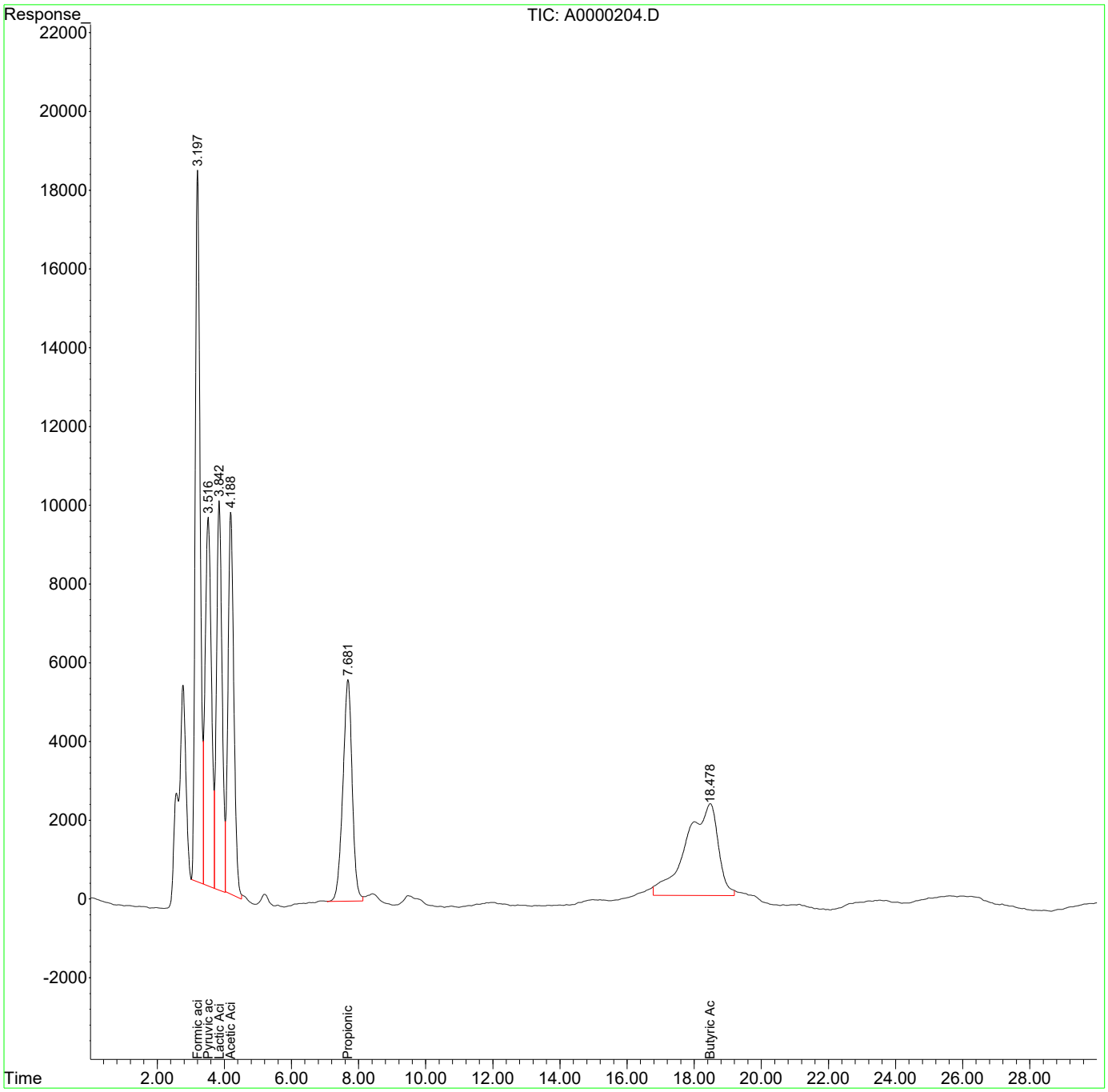
(f)=RT Delta > 1/2 Window (m)=manual int.

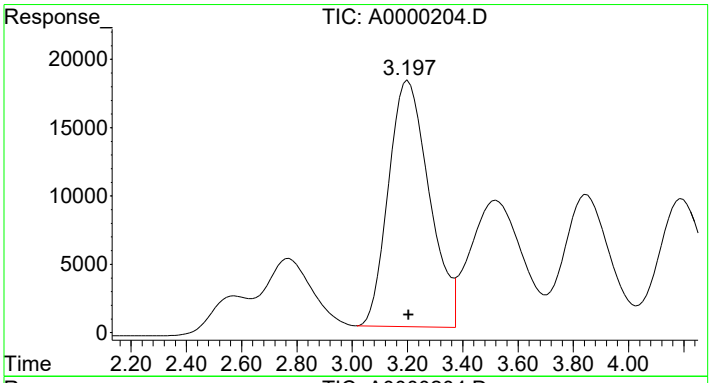
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000204.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 22:37:46
Operator : AFelser
Sample : LCS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:10 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

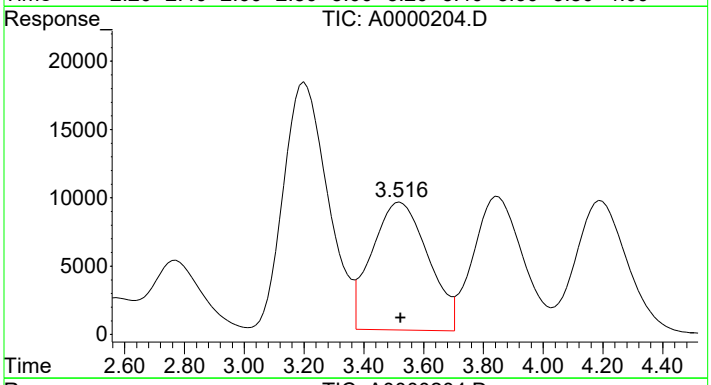
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





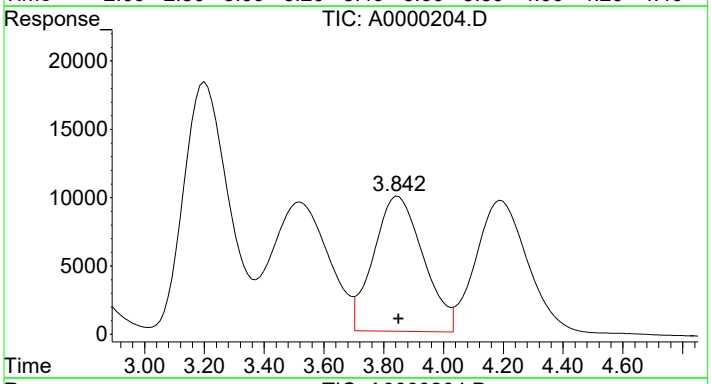
#1 Formic acid

R.T.: 3.202 min
Delta R.T.: -0.002 min
Response: 1845870
Conc: 21.27 ppm



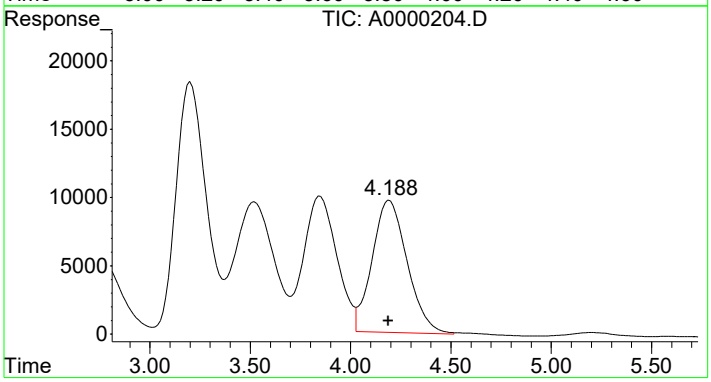
#2 Pyruvic acid

R.T.: 3.522 min
Delta R.T.: -0.002 min
Response: 1226013
Conc: 2.24 ppm



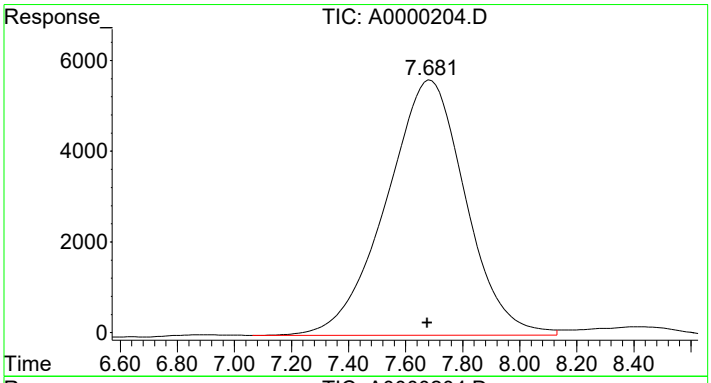
#3 Lactic Acid

R.T.: 3.848 min
Delta R.T.: -0.001 min
Response: 1142565
Conc: 22.61 ppm



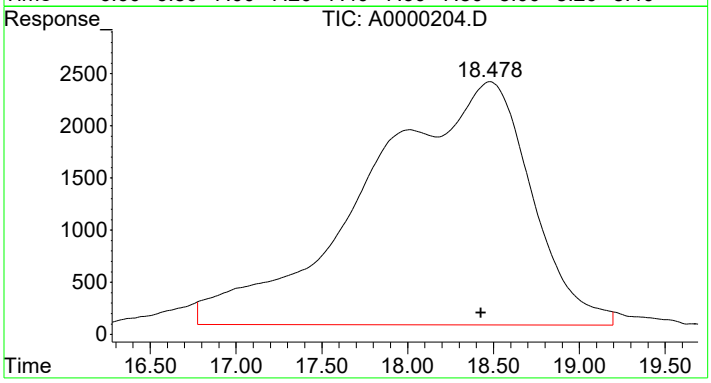
#4 Acetic Acid

R.T.: 4.188 min
Delta R.T.: -0.001 min
Response: 1176051
Conc: 22.53 ppm m



#5 Propionic Acid

R.T.: 7.681 min
Delta R.T.: 0.005 min
Response: 1087919
Conc: 20.40 ppm m



#6 Butyric Acid

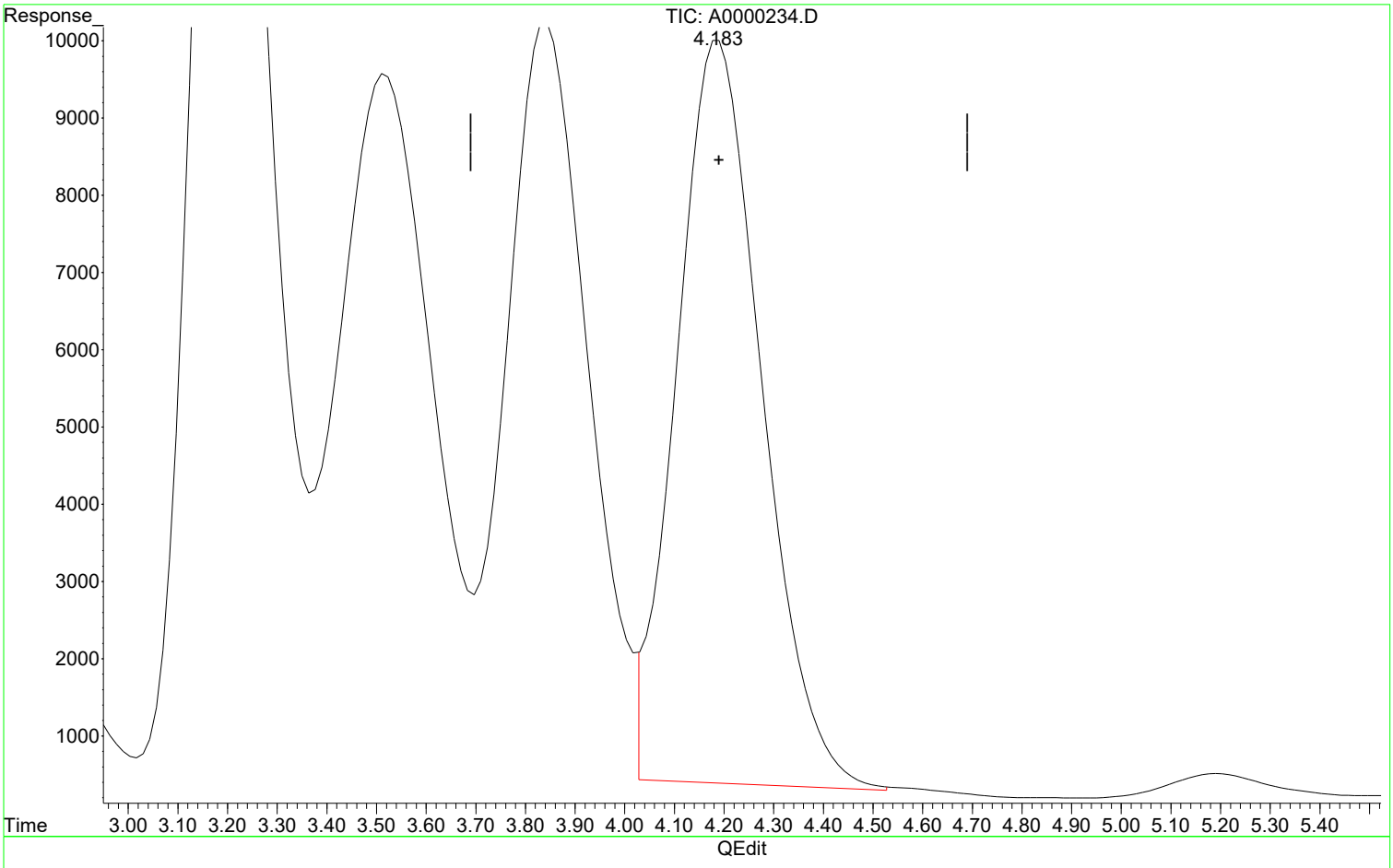
R.T.: 18.478 min
Delta R.T.: 0.052 min
Response: 1548118
Conc: 20.78 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000234.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 18:39:07
Operator : AFelser
Sample : LCS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:04:22 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.183min 22.004 ppm m

response 1148354

Manual Integration:

After

Poor integration.

09/17/24

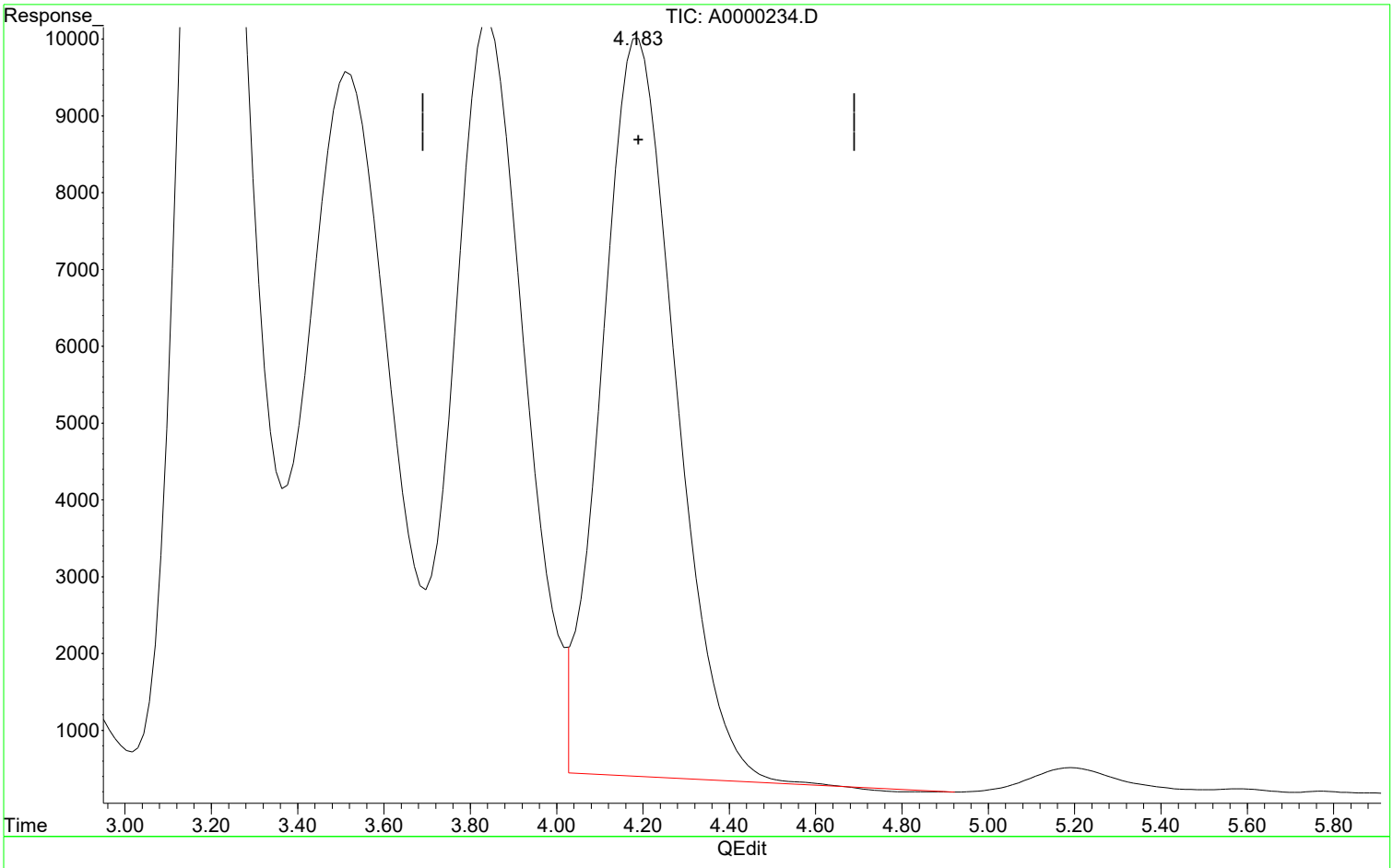
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000234.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 18:39:07
Operator : AFelser
Sample : LCS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:04:22 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.189min 22.077 ppm

response 1152188

Manual Integration:

Before

09/17/24

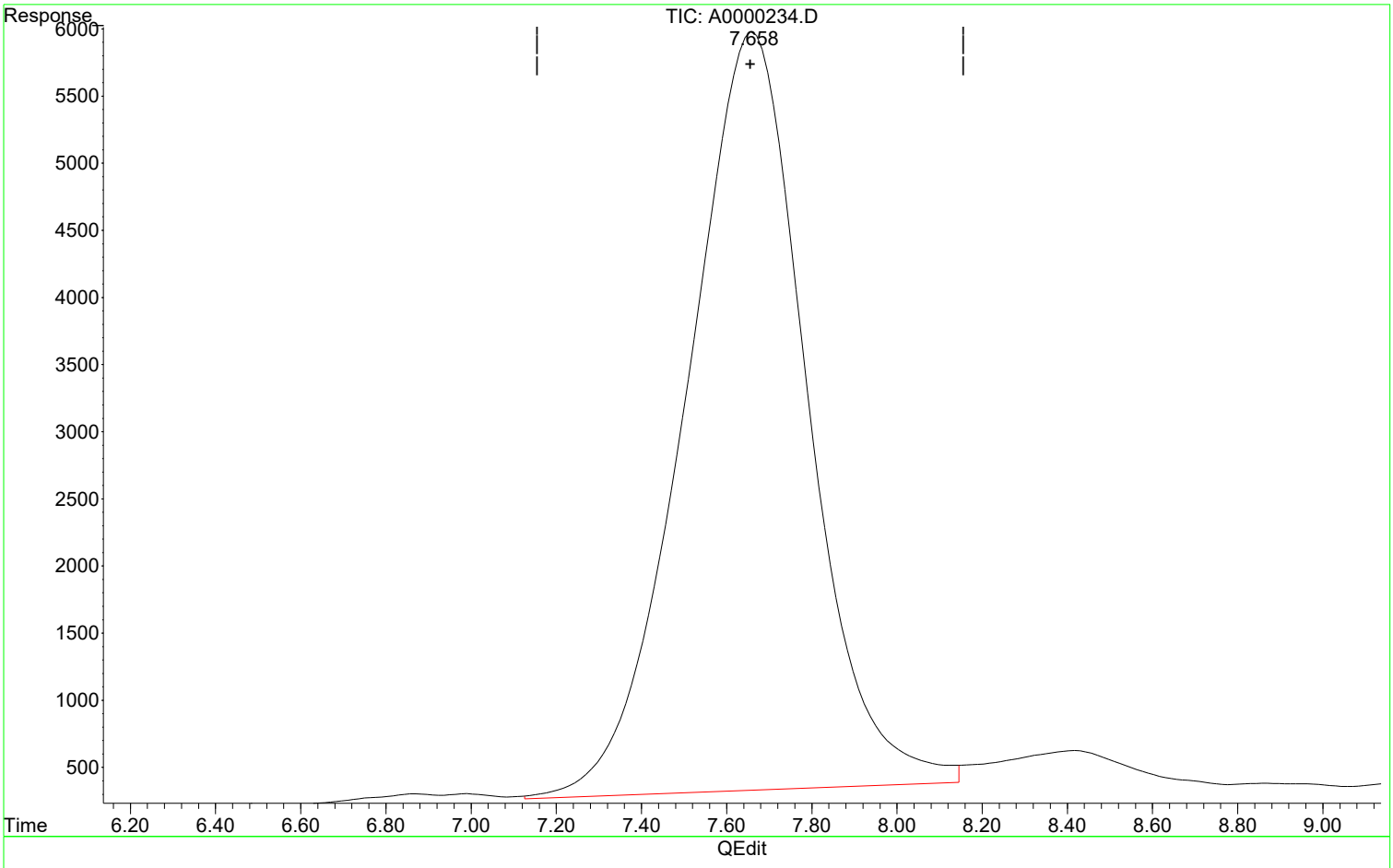
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000234.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 18:39:07
Operator : AFelser
Sample : LCS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:04:22 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.658min 20.825 ppm m

response 1110483

Manual Integration:

After

Poor integration.

09/17/24

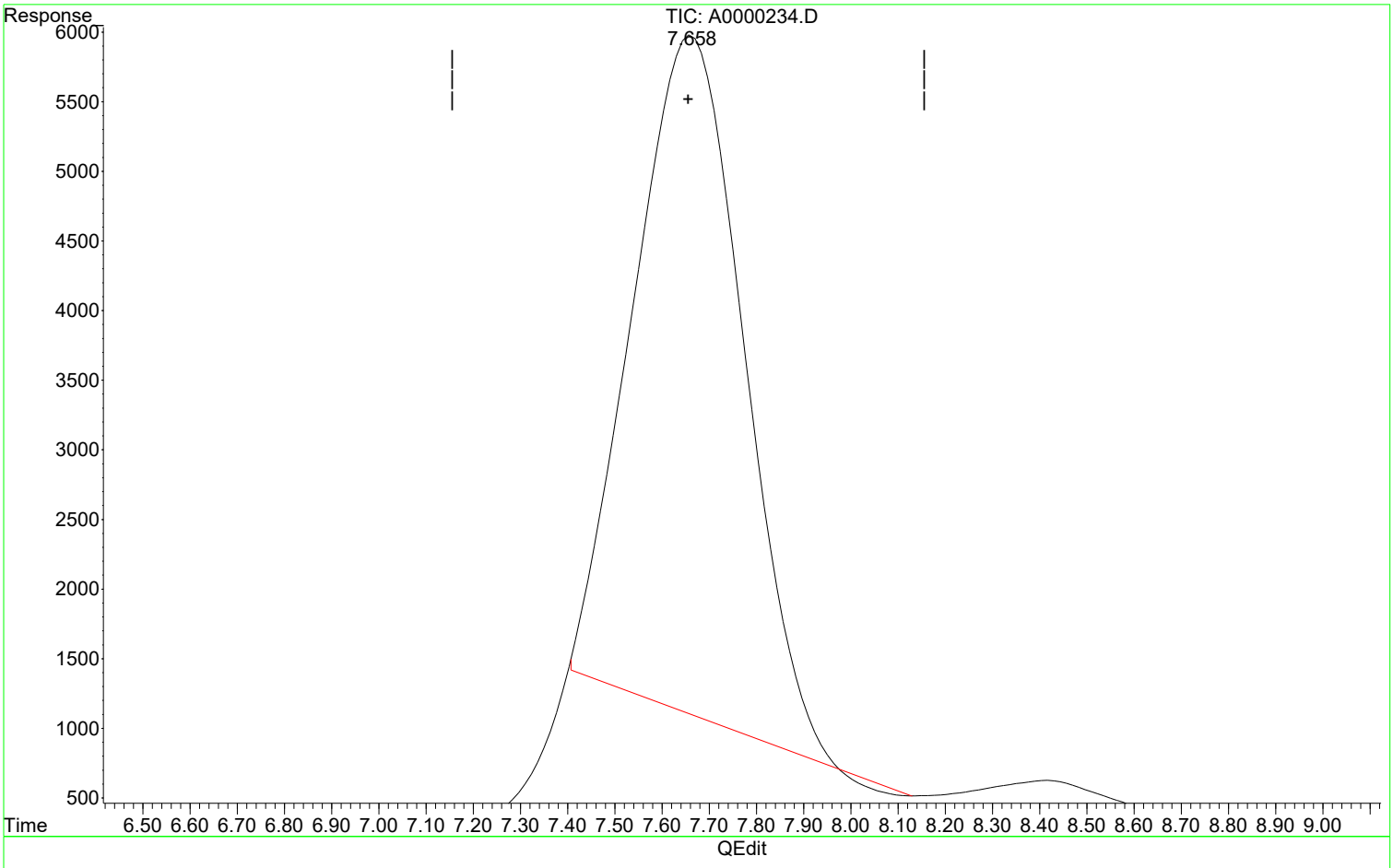
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000234.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 18:39:07
Operator : AFelser
Sample : LCS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:04:22 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.663min 14.843 ppm

response 791521

Manual Integration:

Before

09/17/24

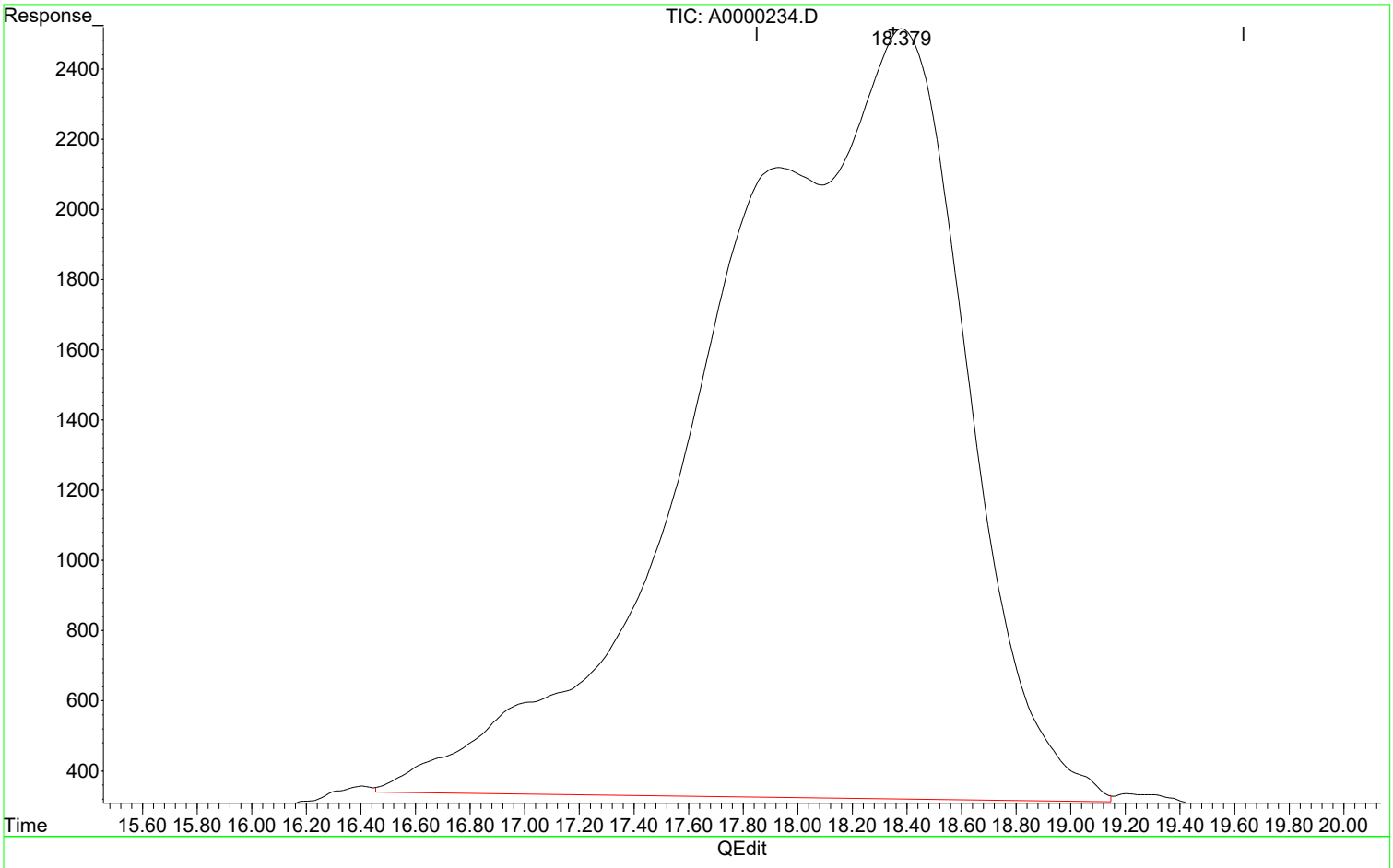
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000234.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 18:39:07
Operator : AFelser
Sample : LCS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:04:22 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.379min 18.781 ppm m

response 1399333

Manual Integration:

After

Poor integration.

09/17/24

(+) = Expected Retention Time

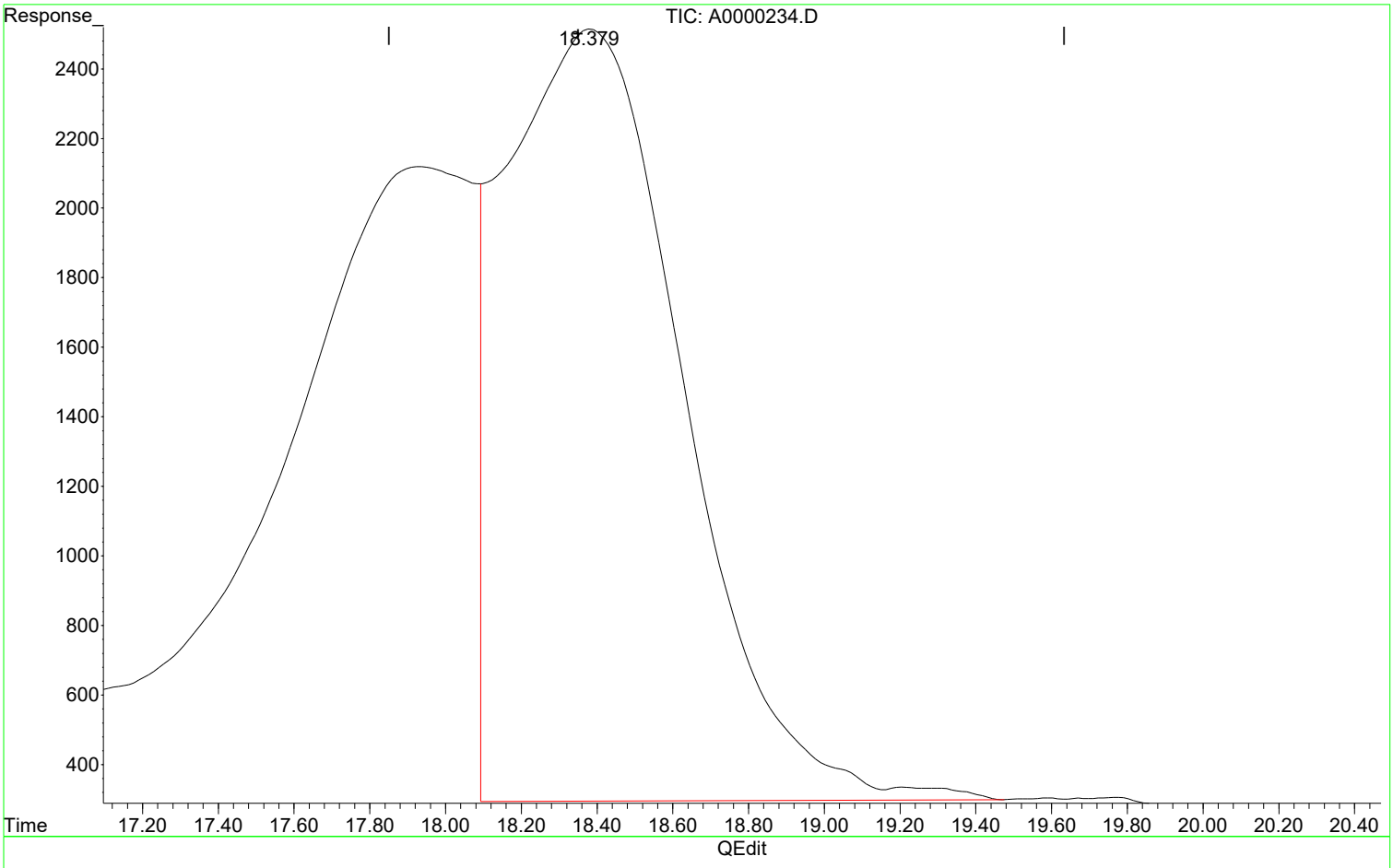
1st AF 09/17/24
2nd AM 09/18/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000234.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 18:39:07
Operator : AFelser
Sample : LCS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:04:22 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.386min 9.901 ppm

response 737735

Manual Integration:

Before

09/17/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000234.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 18:39:07
Operator : AFelser
Sample : LCS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:04:22 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.203	1826747	21.048	ppm	
2) T	Pyruvic acid	3.519	1160095	2.123	ppm	
3) T	Lactic Acid	3.843	1112222	22.021	ppm	
4) T	Acetic Acid	4.183	1148354	22.004	ppm	m
5) T	Propionic Acid	7.658	1110483	20.825	ppm	m
6) T	Butyric Acid	18.379	1399333	18.781	ppm	m

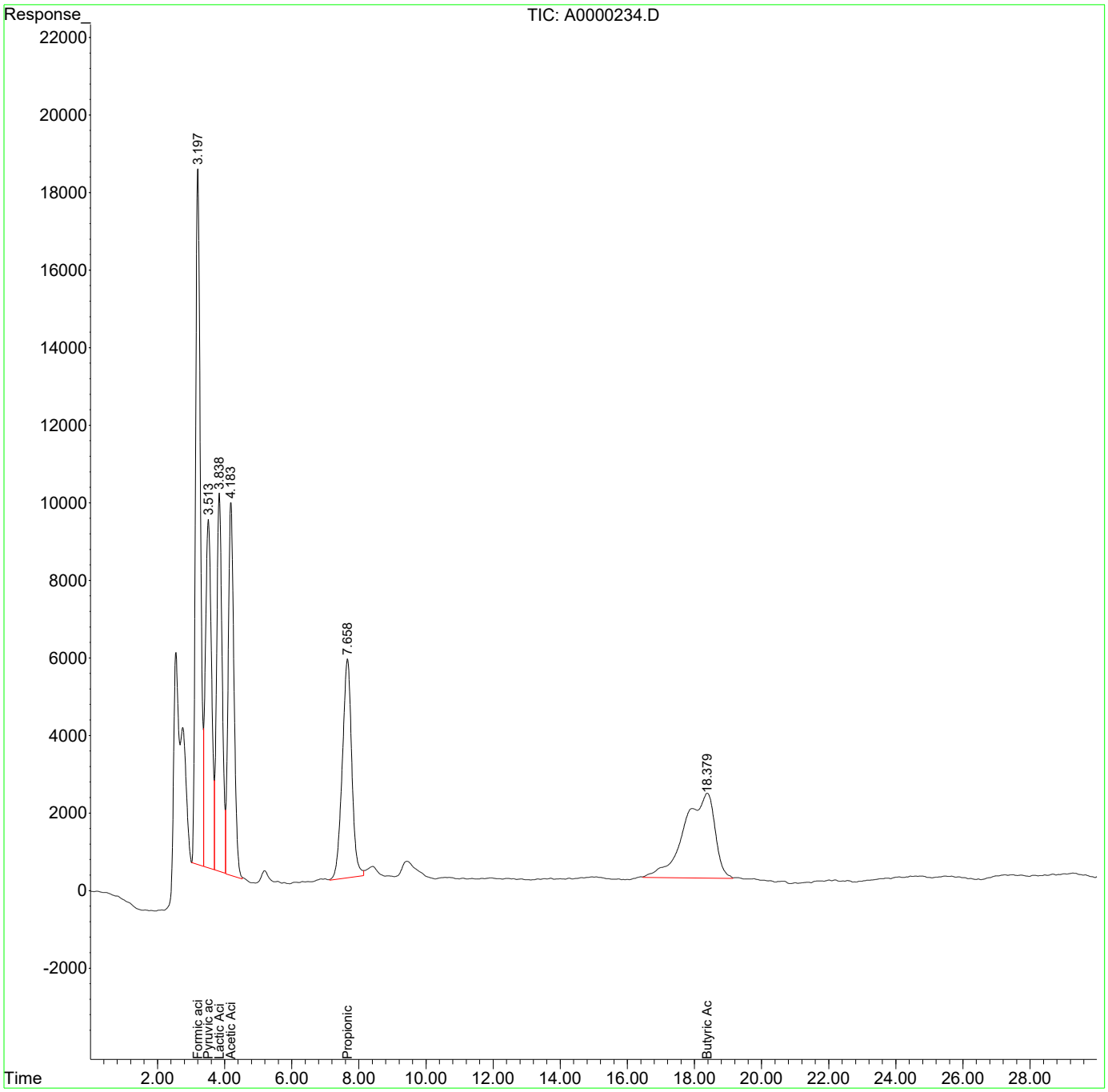
(f)=RT Delta > 1/2 Window (m)=manual int.

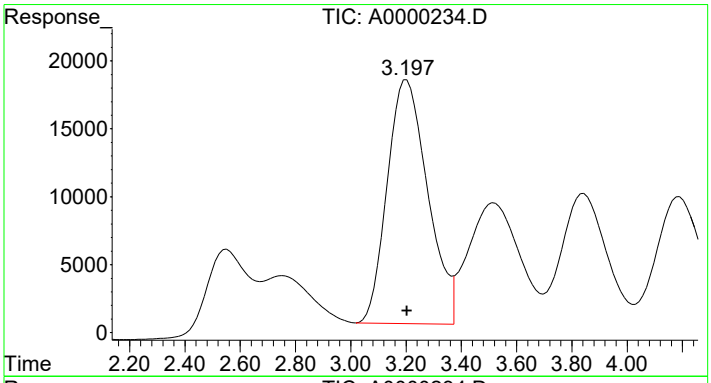
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000234.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 18:39:07
Operator : AFelser
Sample : LCS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:04:22 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation

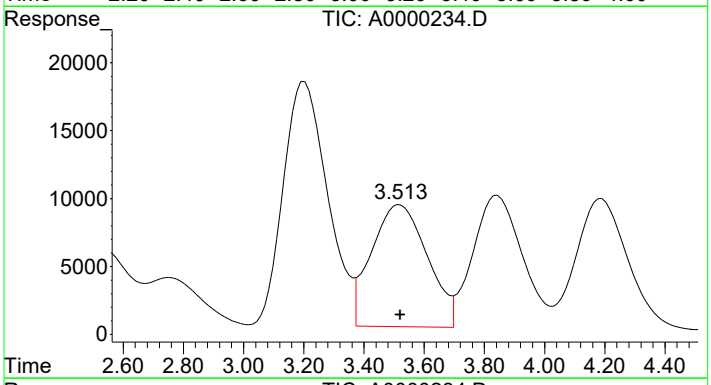
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





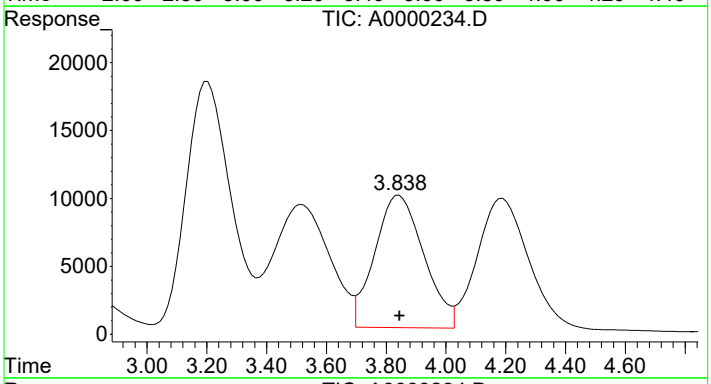
#1 Formic acid

R.T.: 3.203 min
Delta R.T.: 0.000 min
Response: 1826747
Conc: 21.05 ppm



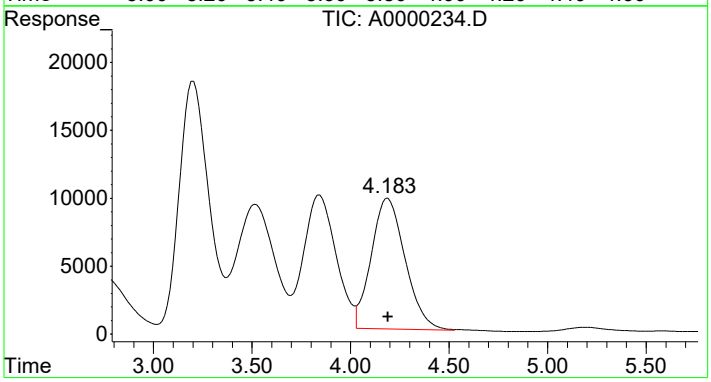
#2 Pyruvic acid

R.T.: 3.519 min
Delta R.T.: -0.001 min
Response: 1160095
Conc: 2.12 ppm



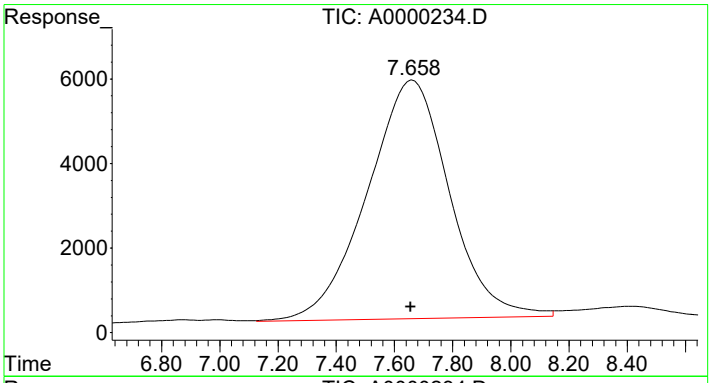
#3 Lactic Acid

R.T.: 3.843 min
Delta R.T.: -0.001 min
Response: 1112222
Conc: 22.02 ppm



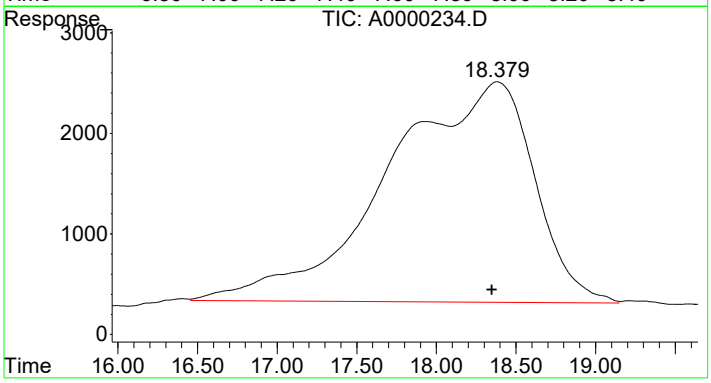
#4 Acetic Acid

R.T.: 4.183 min
Delta R.T.: -0.007 min
Response: 1148354
Conc: 22.00 ppm m



#5 Propionic Acid

R.T.: 7.658 min
Delta R.T.: 0.002 min
Response: 1110483
Conc: 20.82 ppm m



#6 Butyric Acid

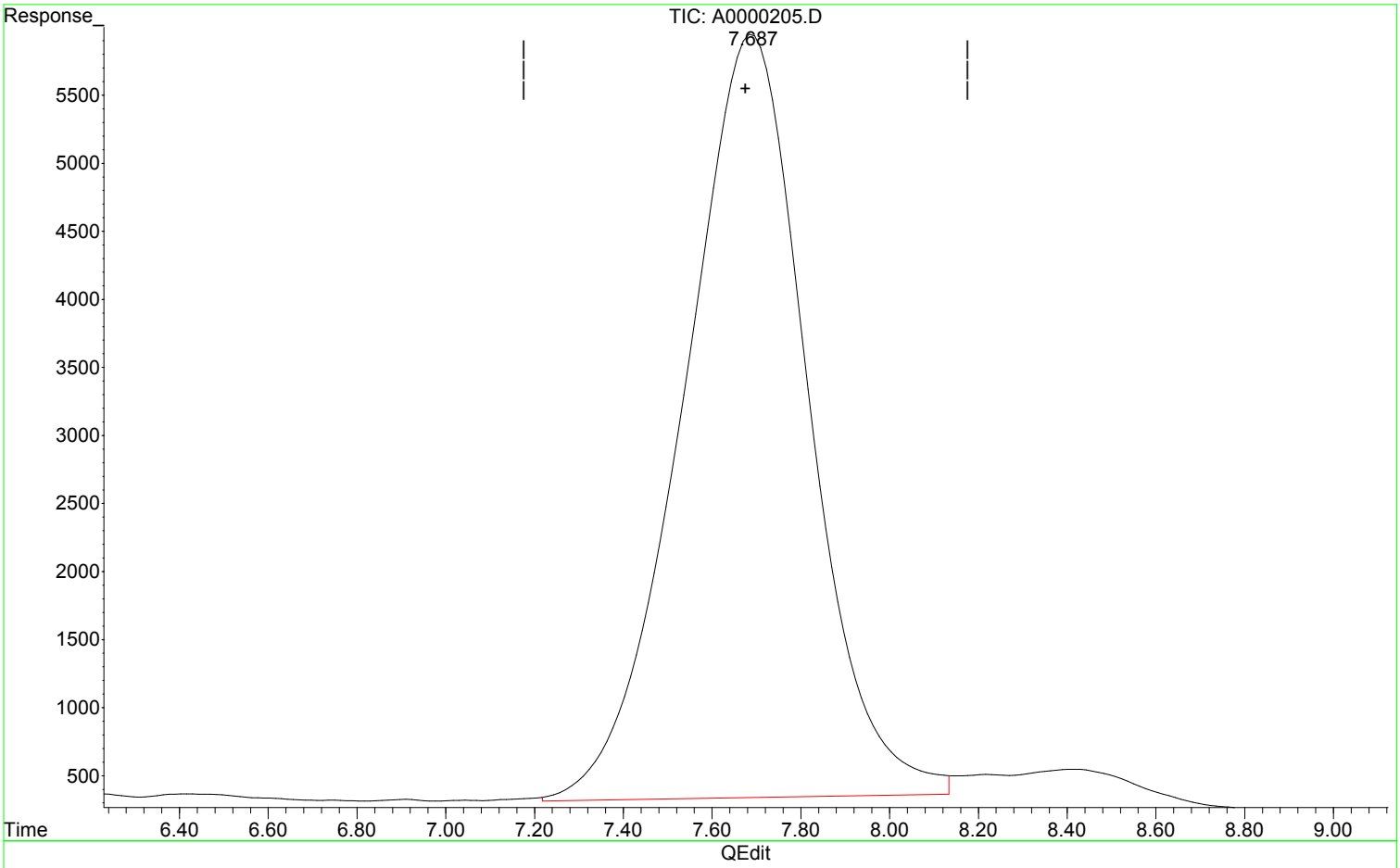
R.T.: 18.379 min
Delta R.T.: 0.029 min
Response: 1399333
Conc: 18.78 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000205.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 23:09:34
Operator : AFelser
Sample : DLCS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:12 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.687min 20.424 ppm m

response 1089127

Manual Integration:

After

Poor integration.

09/05/24

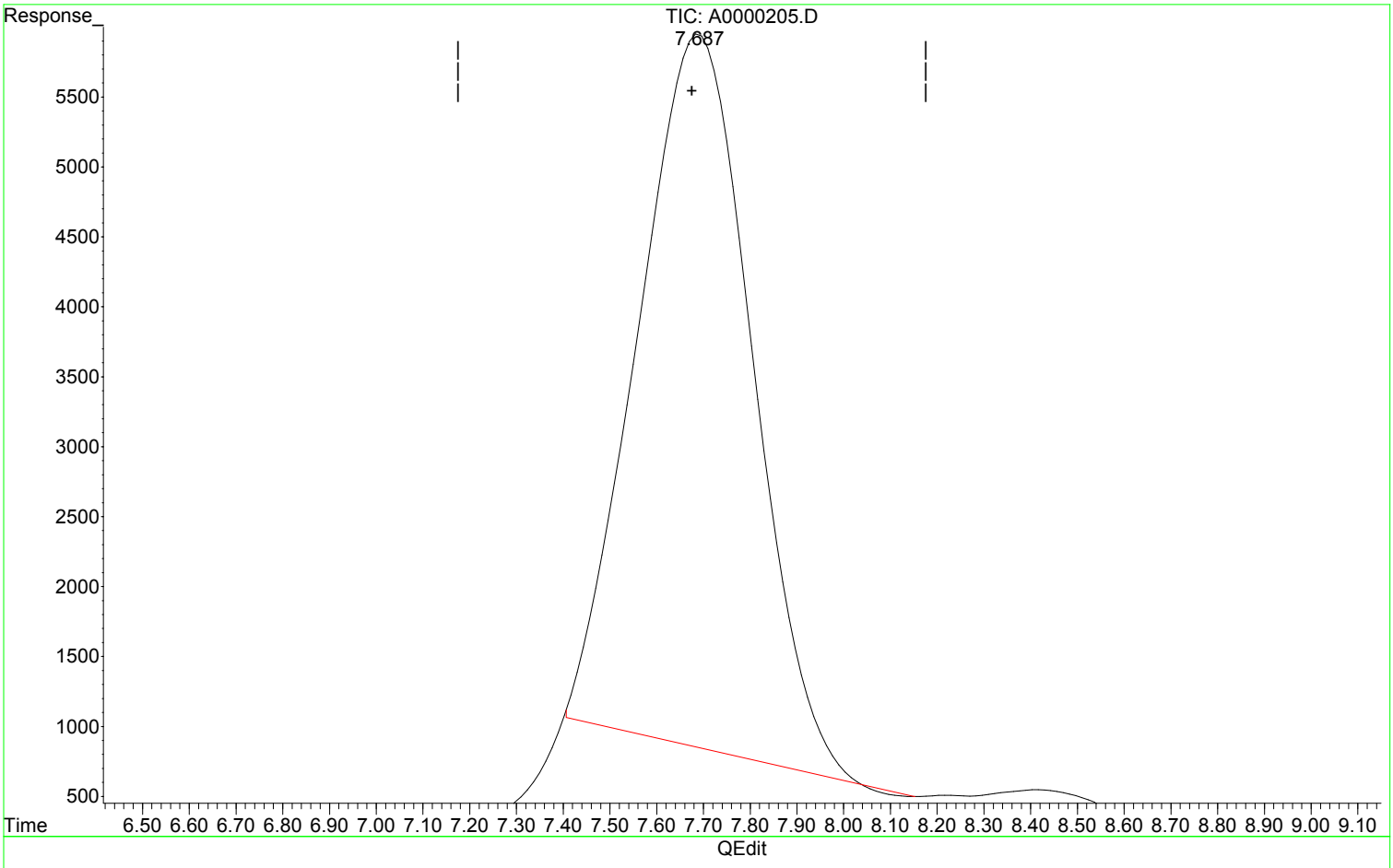
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000205.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 23:09:34
Operator : AFelser
Sample : DLCS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:12 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.692min 16.291 ppm

response 868750

Manual Integration:

Before

09/05/24

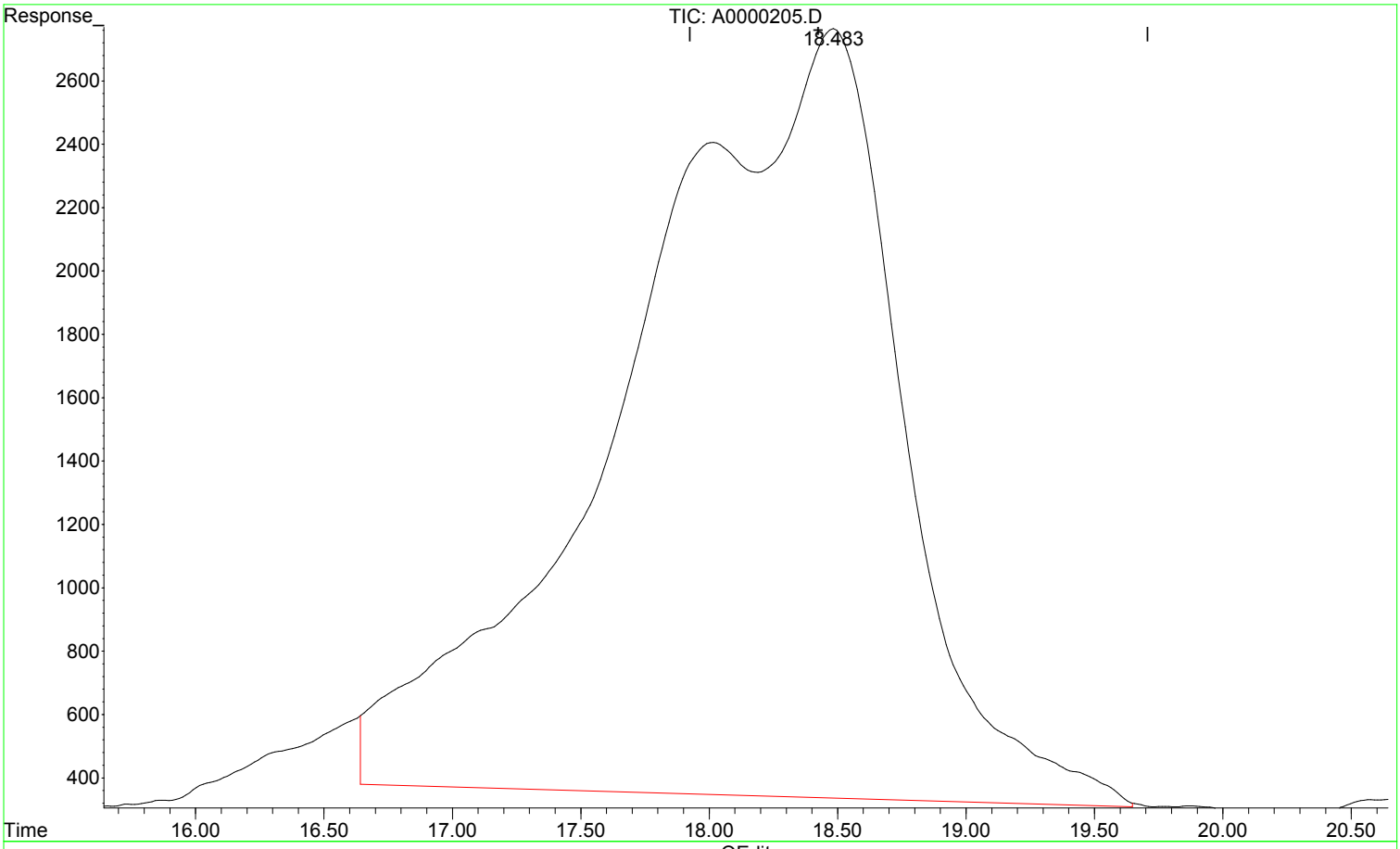
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000205.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 23:09:34
Operator : AFelser
Sample : DLCS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:12 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.483min 24.004 ppm m

response 1788493

Manual Integration:

After

Poor integration.

09/05/24

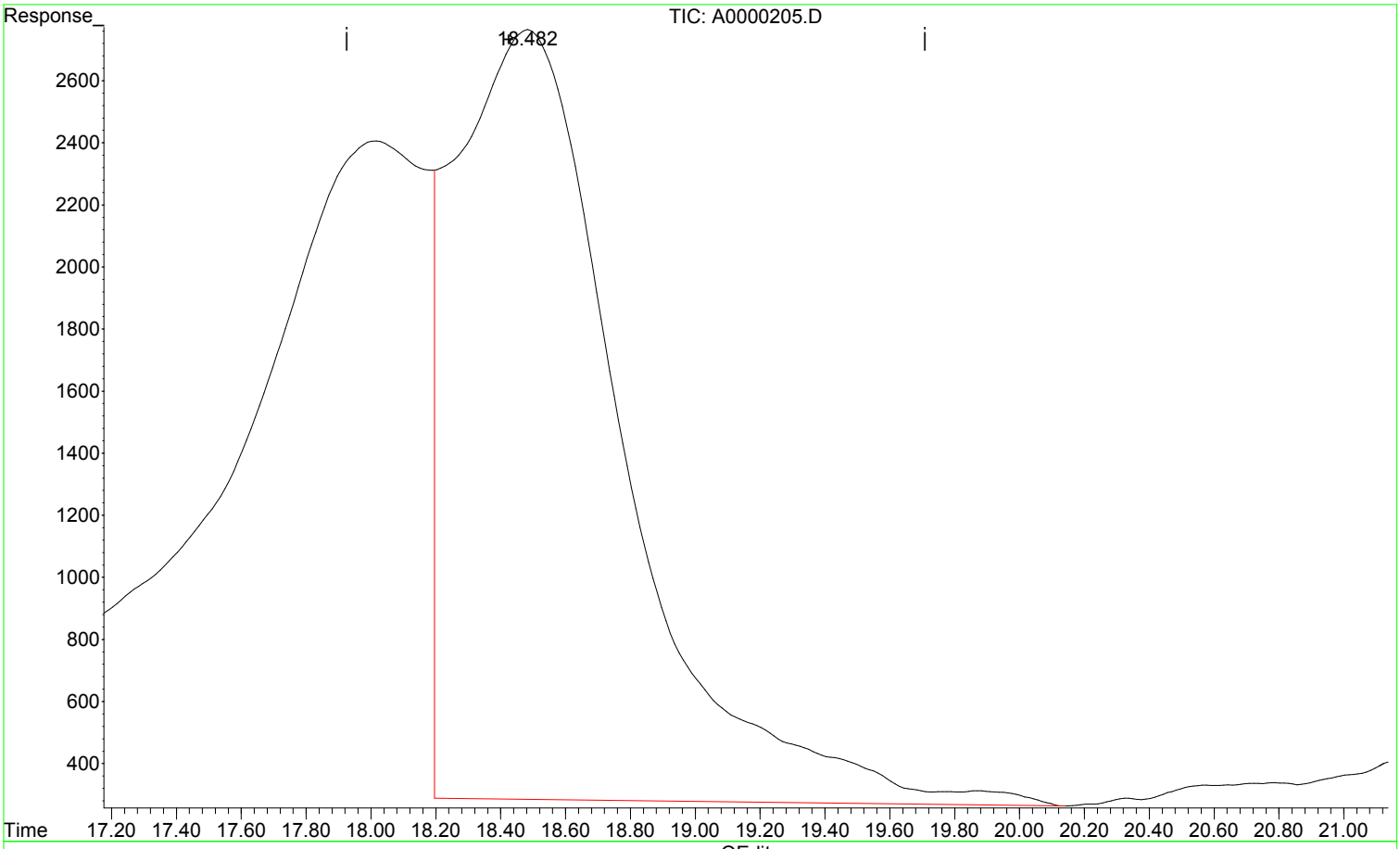
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000205.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 23:09:34
Operator : AFelser
Sample : DLCS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:12 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.488min 12.256 ppm

response 913193

Manual Integration:

Before

09/05/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000205.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 23:09:34
Operator : AFelser
Sample : DLCS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:12 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.203	1832130	21.110	ppm	
2) T	Pyruvic acid	3.522	1203421	2.199	ppm	
3) T	Lactic Acid	3.850	1128570	22.337	ppm	
4) T	Acetic Acid	4.195	1179583	22.602	ppm	
5) T	Propionic Acid	7.687	1089127	20.424	ppm	m
6) T	Butyric Acid	18.483	1788493	24.004	ppm	m

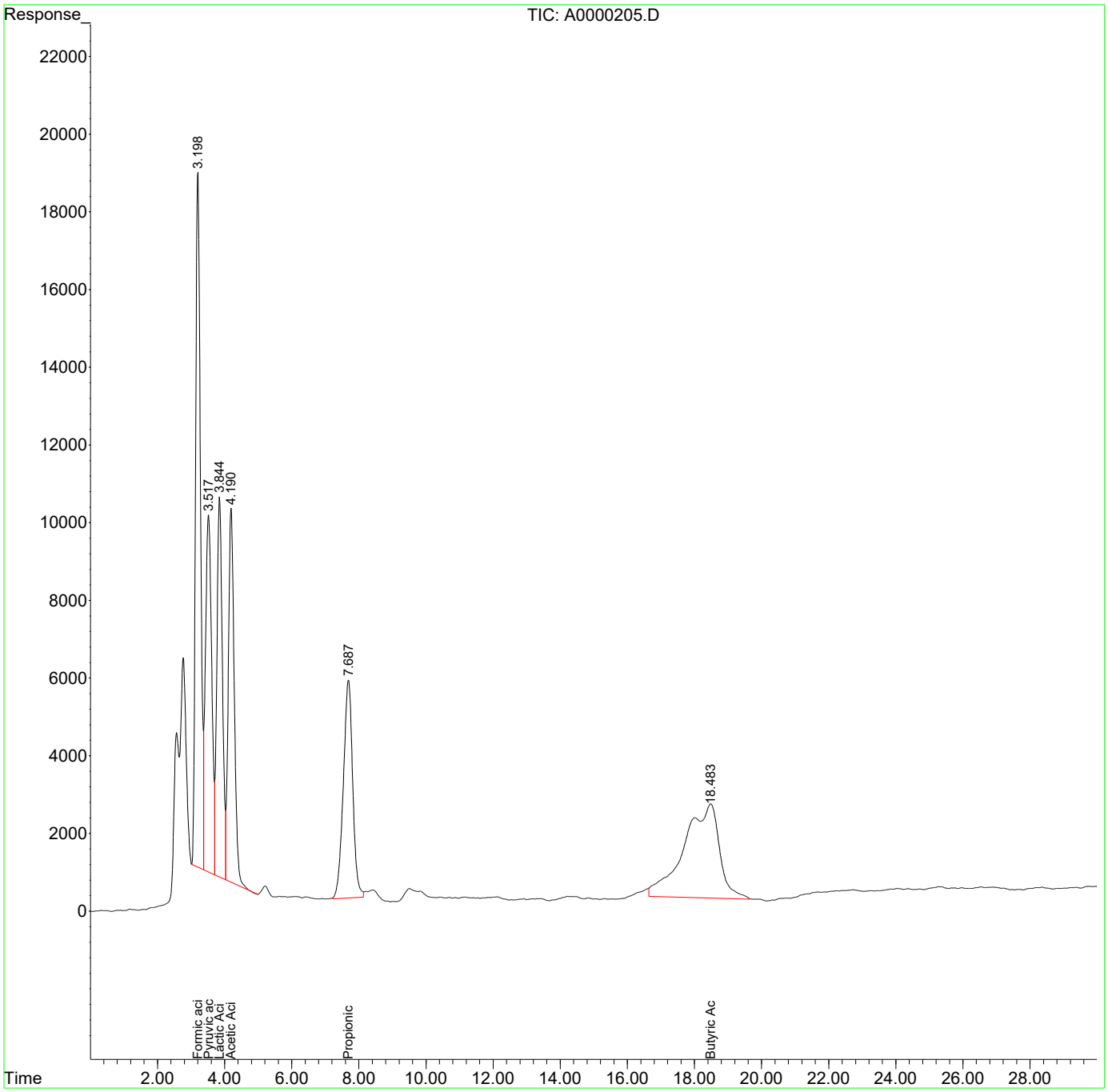
(f)=RT Delta > 1/2 Window (m)=manual int.

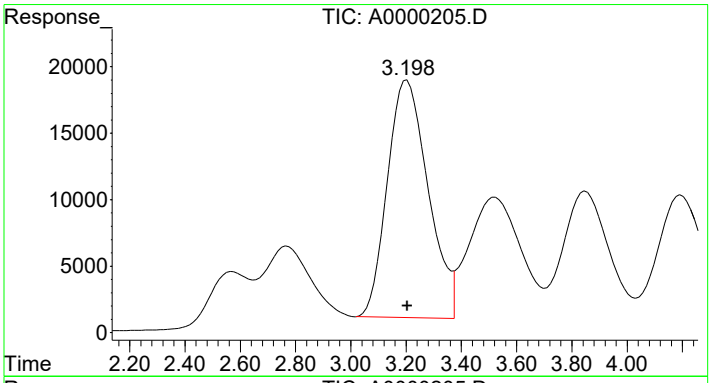
1st AF 09/09/24
2nd AM 09/09/24

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000205.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 23:09:34
Operator : AFelser
Sample : DLCS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:12 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

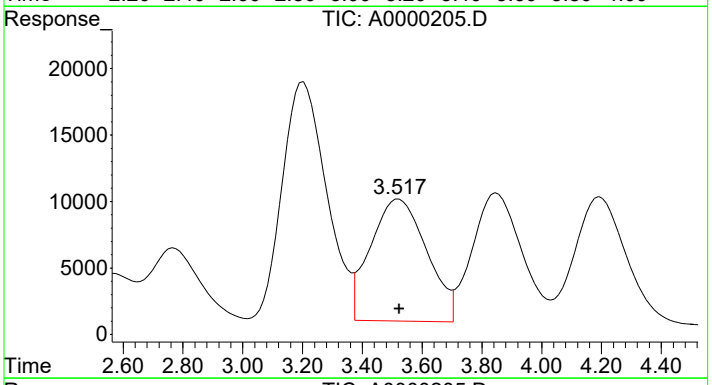
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





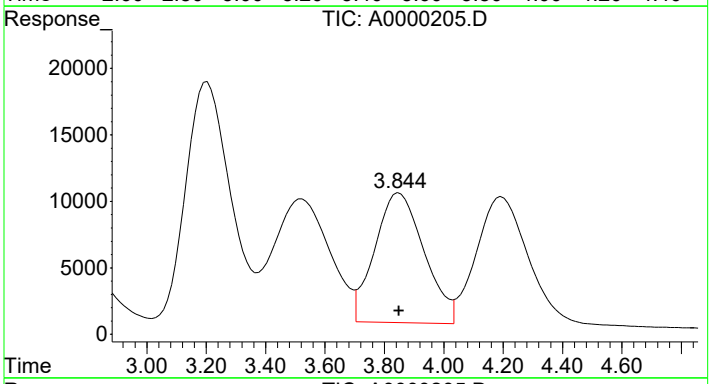
#1 Formic acid

R.T.: 3.203 min
Delta R.T.: 0.000 min
Response: 1832130
Conc: 21.11 ppm



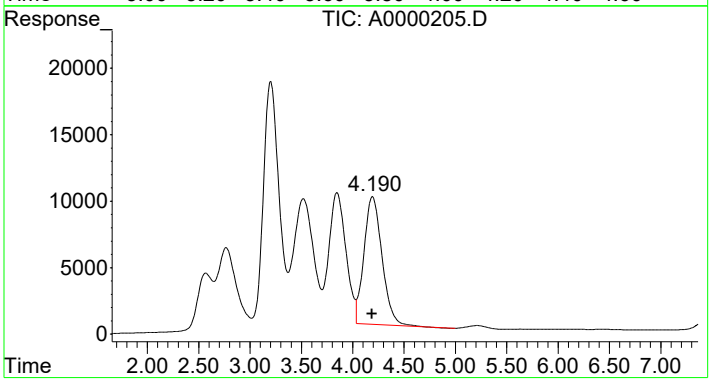
#2 Pyruvic acid

R.T.: 3.522 min
Delta R.T.: 0.000 min
Response: 1203421
Conc: 2.20 ppm



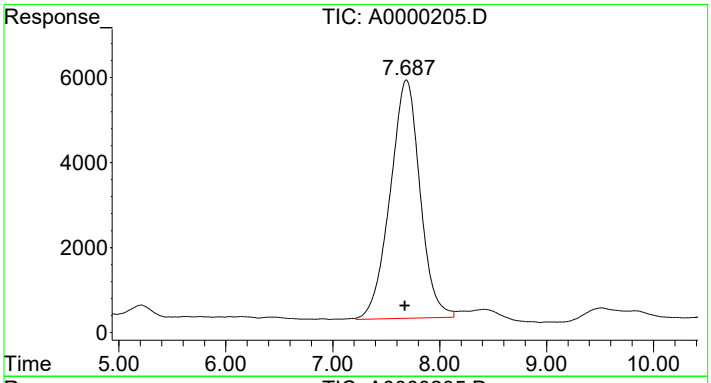
#3 Lactic Acid

R.T.: 3.850 min
Delta R.T.: 0.000 min
Response: 1128570
Conc: 22.34 ppm



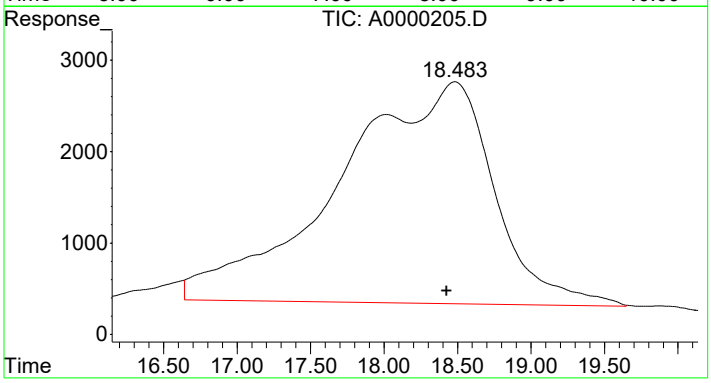
#4 Acetic Acid

R.T.: 4.195 min
Delta R.T.: 0.007 min
Response: 1179583
Conc: 22.60 ppm



#5 Propionic Acid

R.T.: 7.687 min
Delta R.T.: 0.011 min
Response: 1089127
Conc: 20.42 ppm m



#6 Butyric Acid

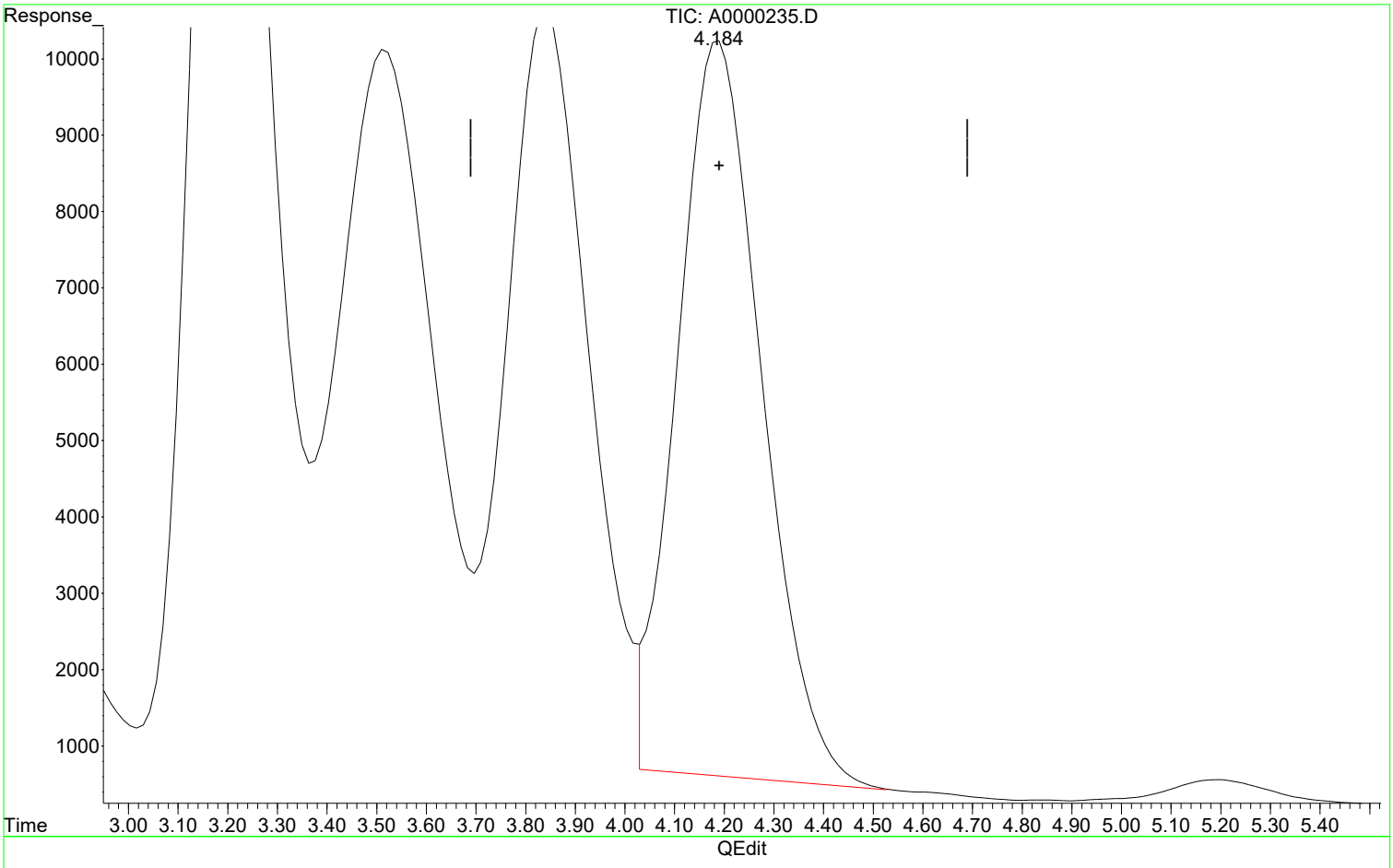
R.T.: 18.483 min
Delta R.T.: 0.057 min
Response: 1788493
Conc: 24.00 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000235.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 19:10:55
Operator : AFelser
Sample : DLCS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:04:24 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.184min 21.885 ppm m

response 1142151

Manual Integration:

After

Poor integration.

09/17/24

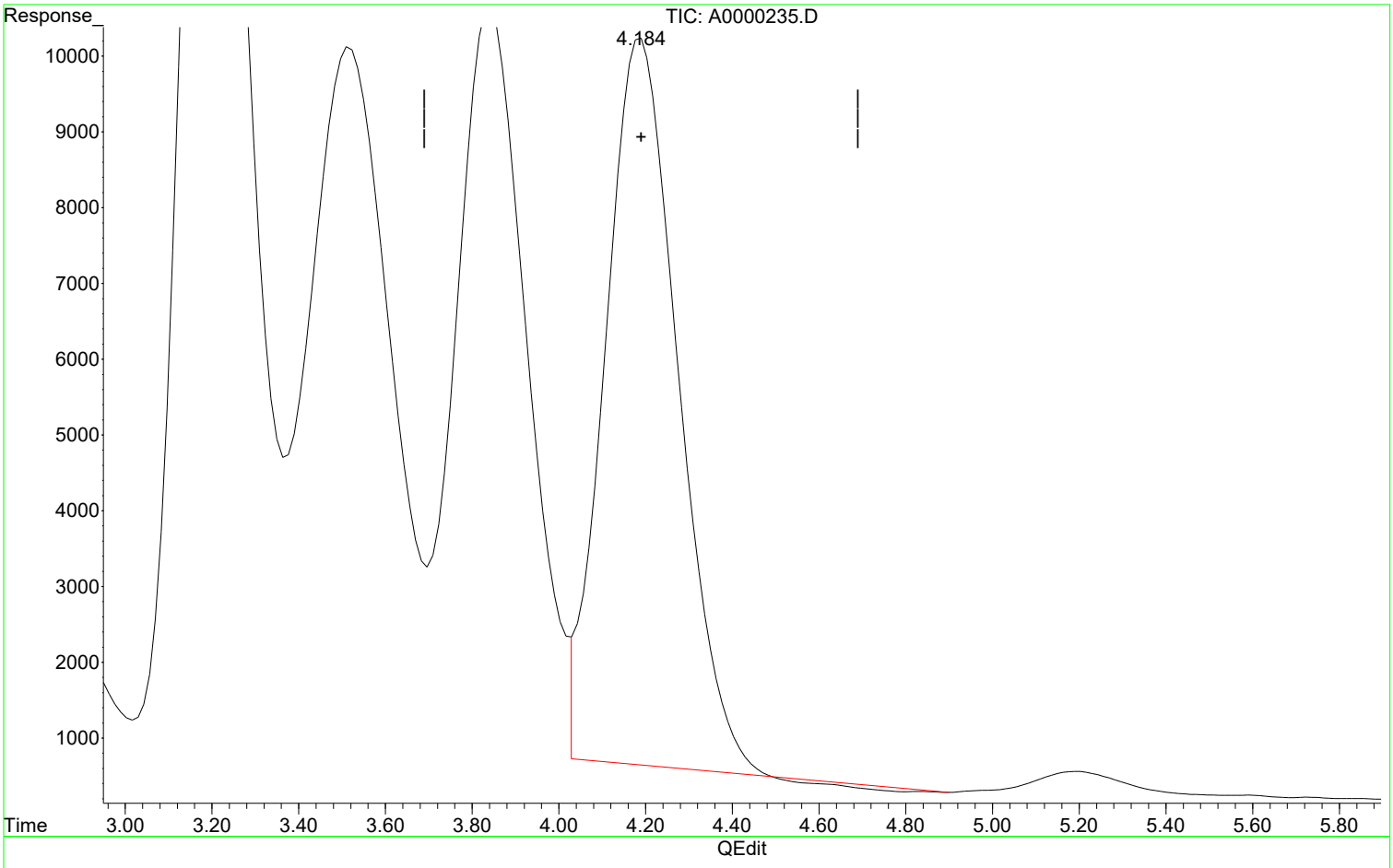
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000235.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 19:10:55
Operator : AFelser
Sample : DLCS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:04:24 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.190min 21.629 ppm

response 1128781

Manual Integration:

Before

09/17/24

(+) = Expected Retention Time

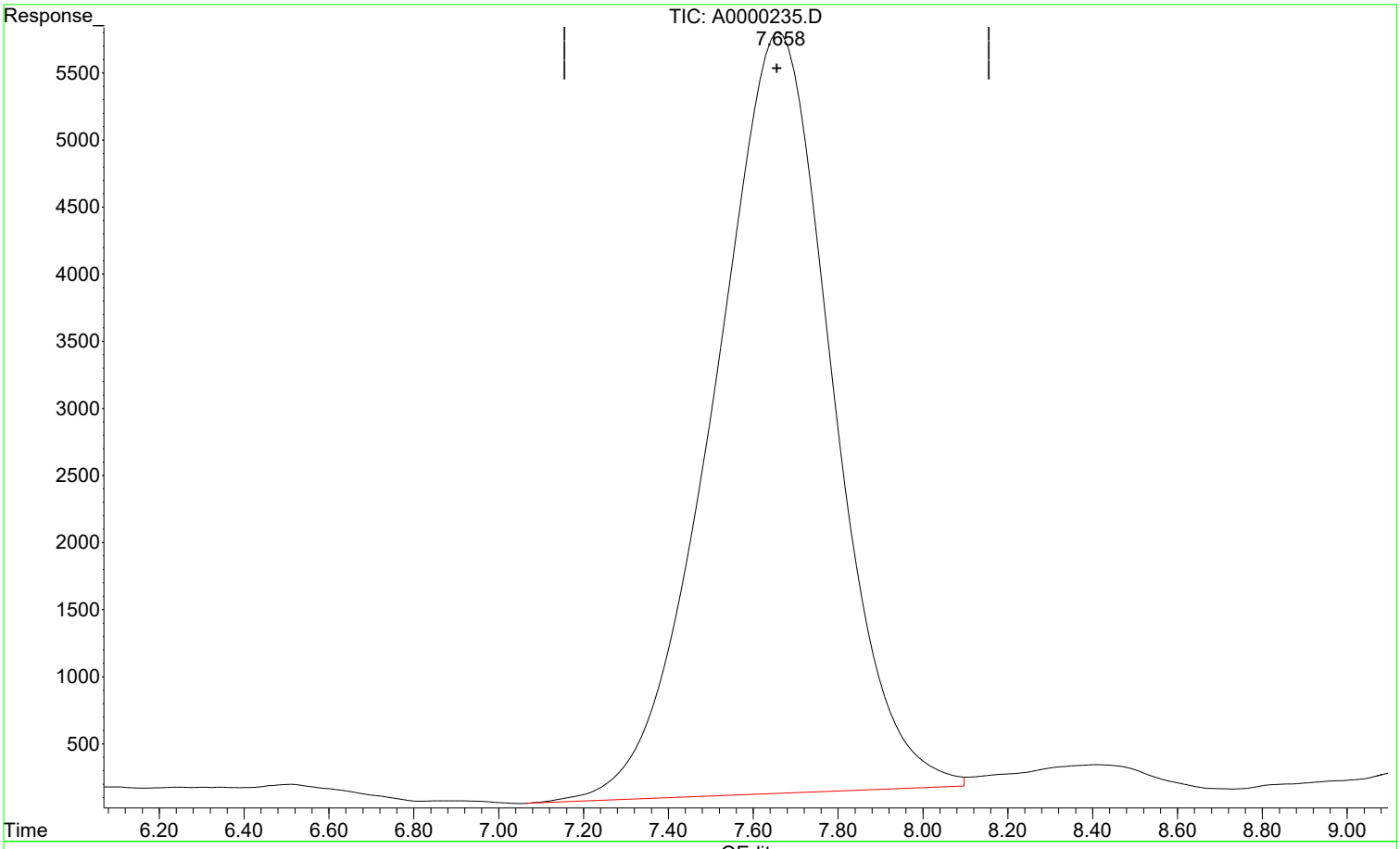
1st AF 09/17/24
2nd AM 09/18/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000235.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 19:10:55
Operator : AFelser
Sample : DLCS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:04:24 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.658min 20.644 ppm m

response 1100832

Manual Integration:

After

Poor integration.

09/17/24

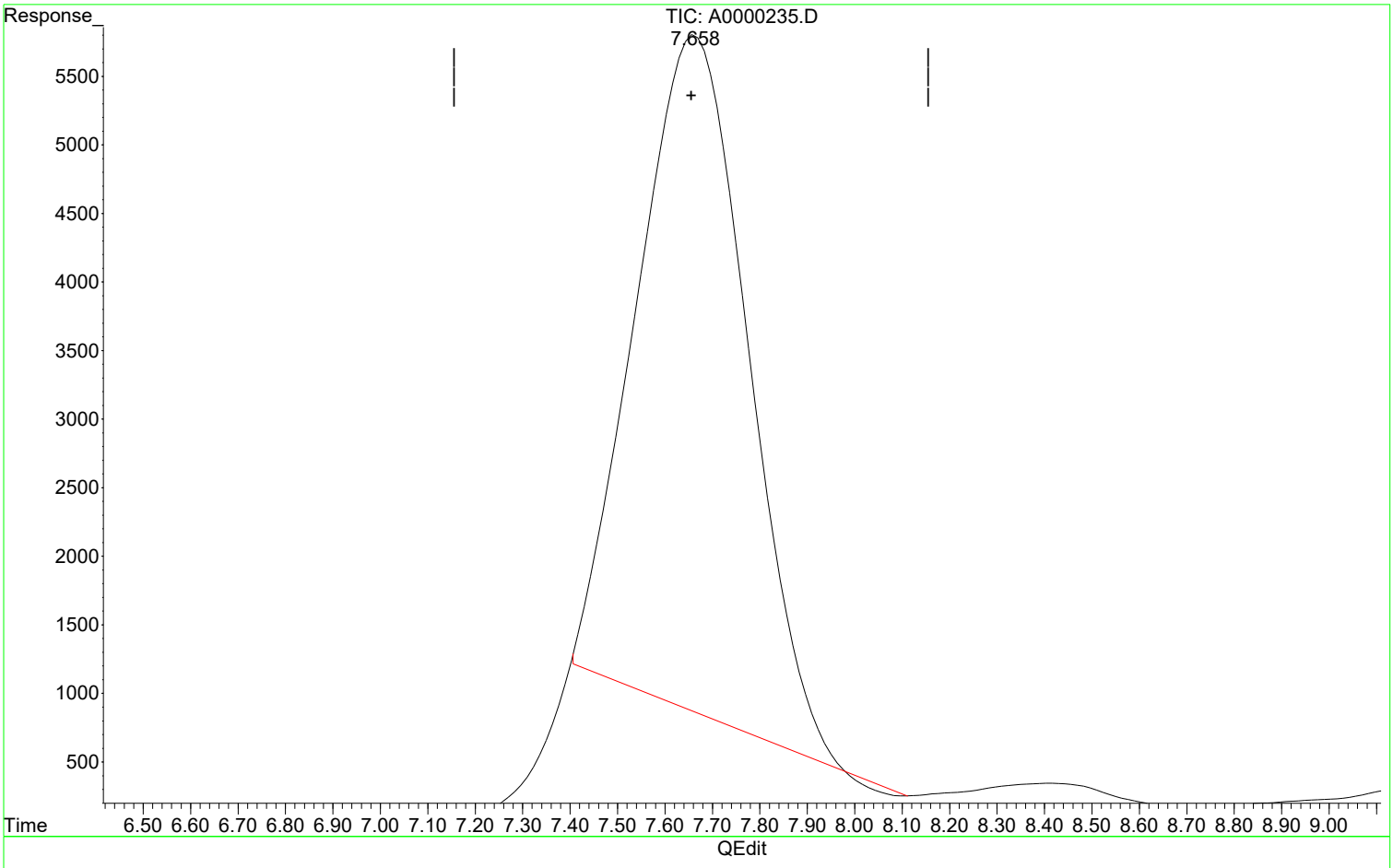
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000235.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 19:10:55
Operator : AFelser
Sample : DLCS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:04:24 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.664min 15.084 ppm

response 804342

Manual Integration:

Before

09/17/24

(+) = Expected Retention Time

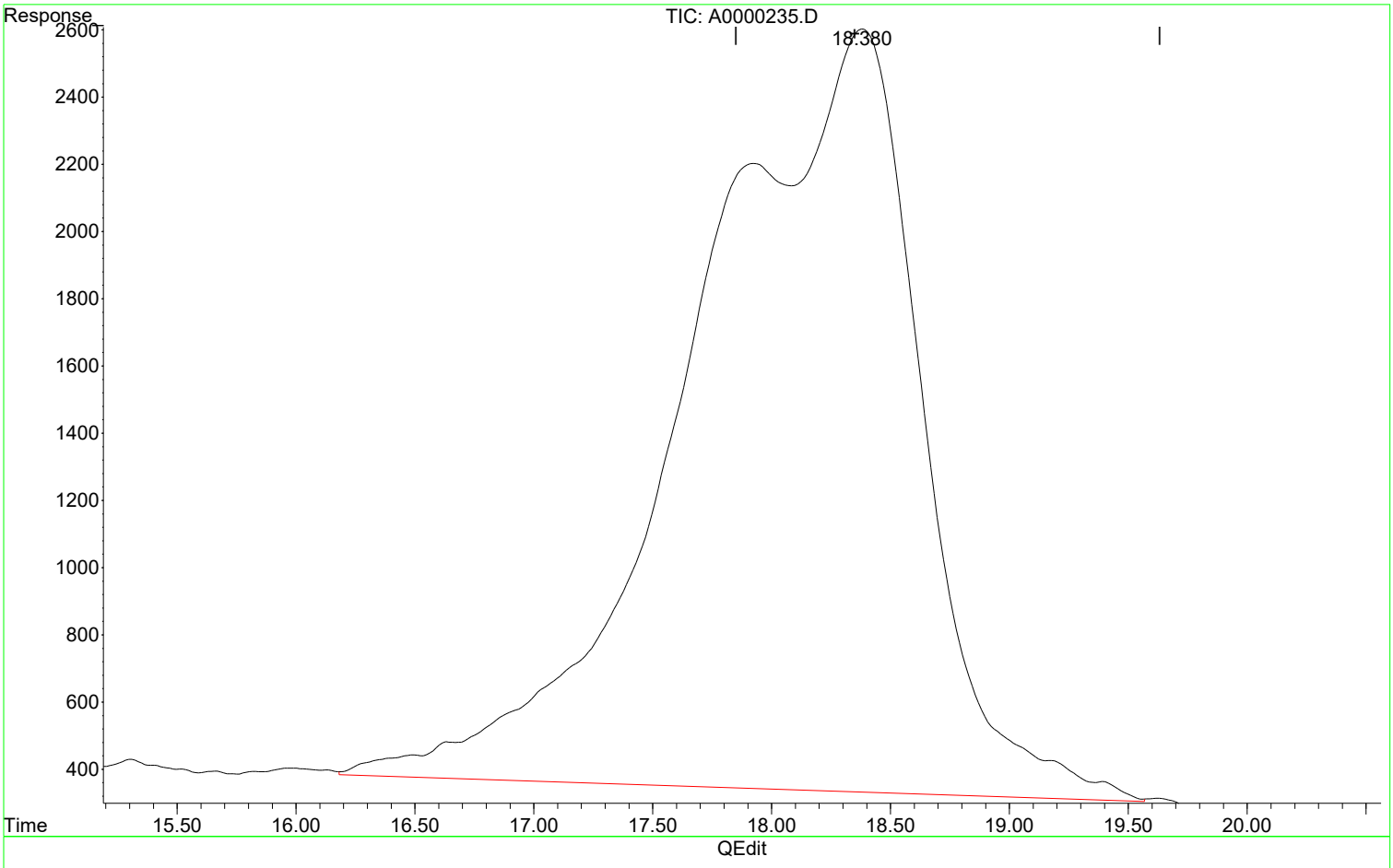
1st AF 09/17/24
2nd AM 09/18/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000235.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 19:10:55
Operator : AFelser
Sample : DLCS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:04:24 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.380min 20.154 ppm m

response 1501698

Manual Integration:

After

Poor integration.

09/17/24

(+) = Expected Retention Time

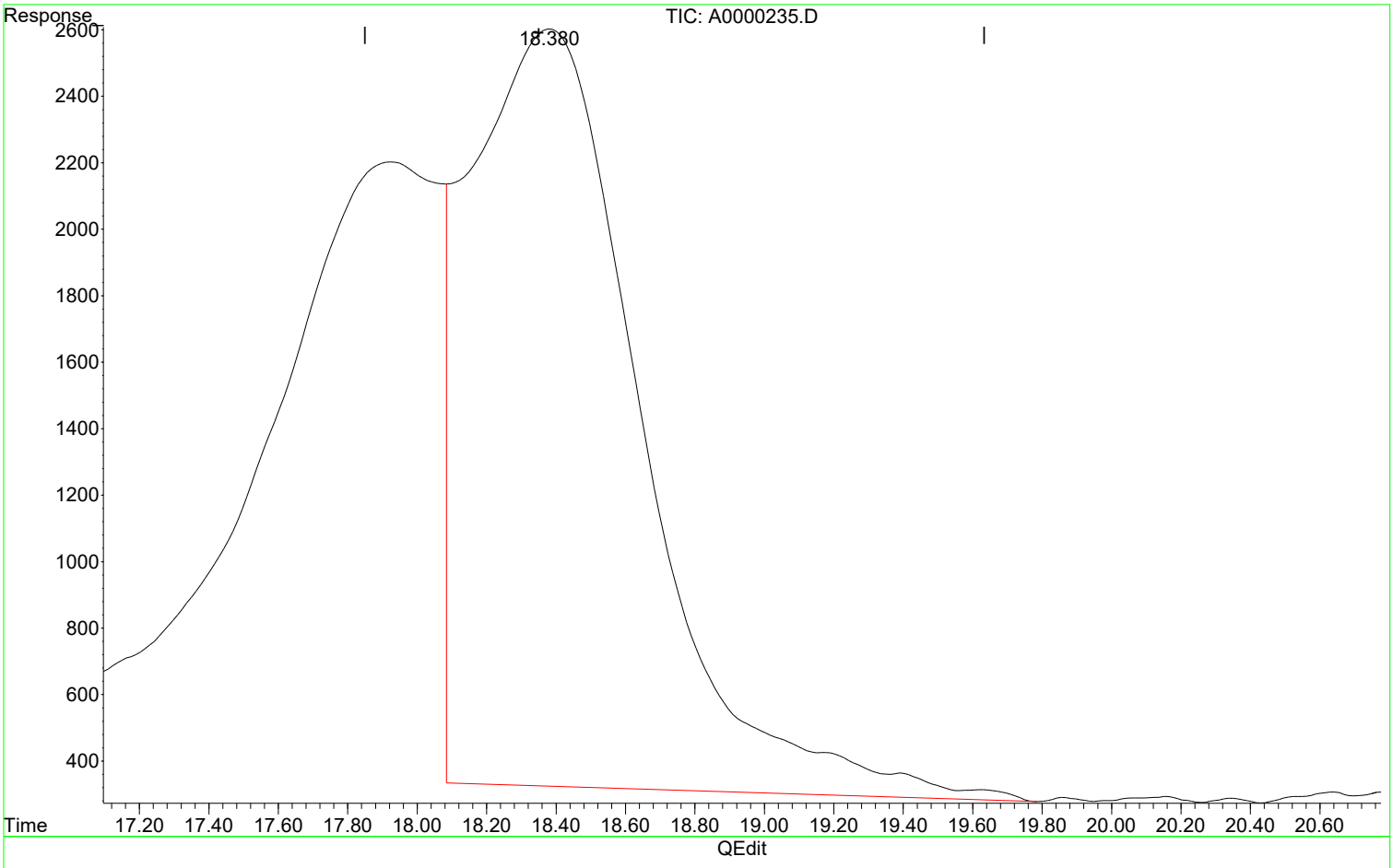
1st AF 09/17/24
2nd AM 09/18/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000235.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 19:10:55
Operator : AFelser
Sample : DLCS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:04:24 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.386min 10.650 ppm

response 793509

Manual Integration:

Before

09/17/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000235.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 19:10:55
Operator : AFelser
Sample : DLCS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:04:24 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.203	1845946	21.270	ppm	
2) T	Pyruvic acid	3.519	1185818	2.168	ppm	
3) T	Lactic Acid	3.843	1121414	22.199	ppm	
4) T	Acetic Acid	4.184	1142151	21.885	ppm	m
5) T	Propionic Acid	7.658	1100832	20.644	ppm	m
6) T	Butyric Acid	18.380	1501698	20.154	ppm	m

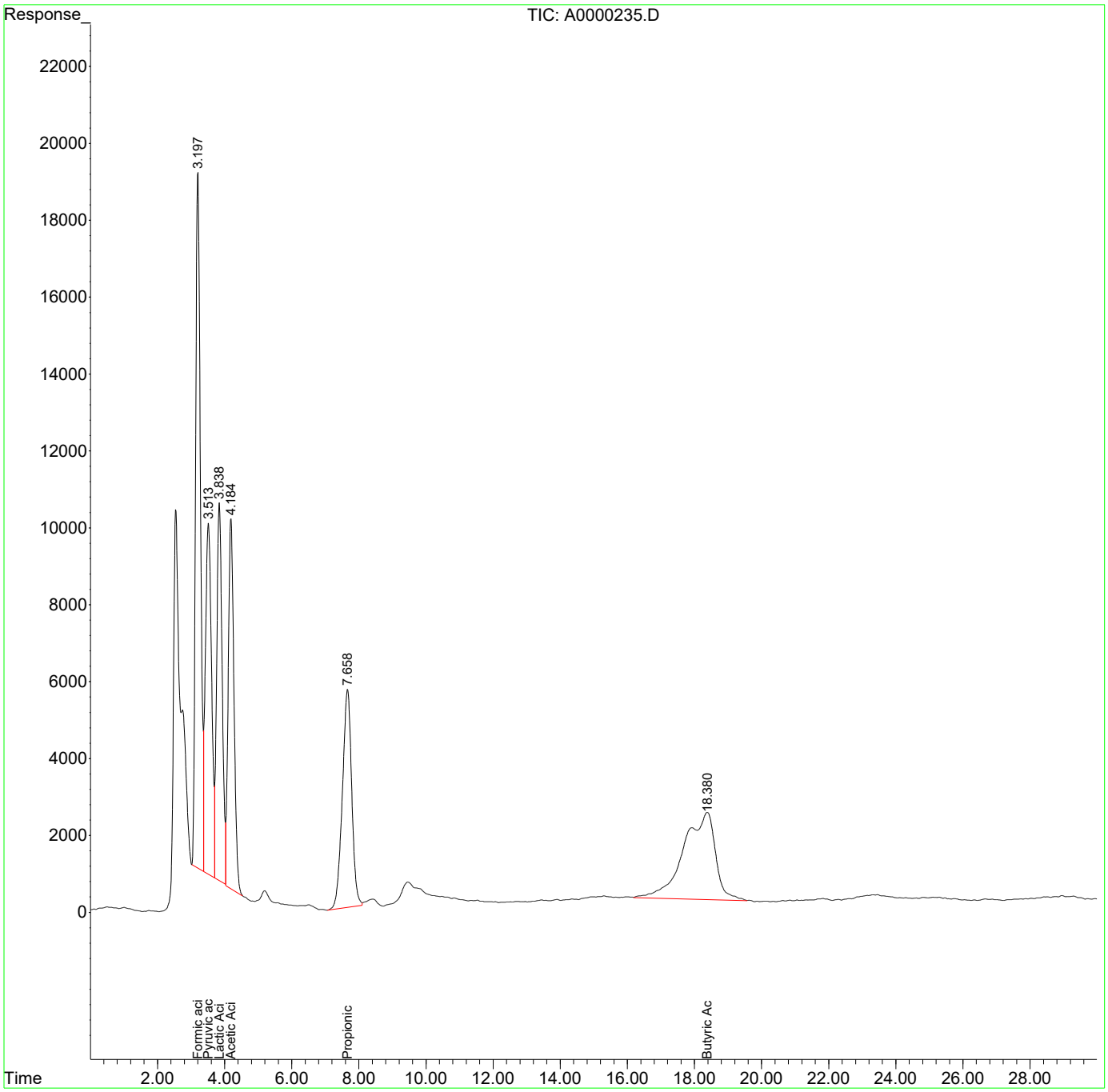
(f)=RT Delta > 1/2 Window (m)=manual int.

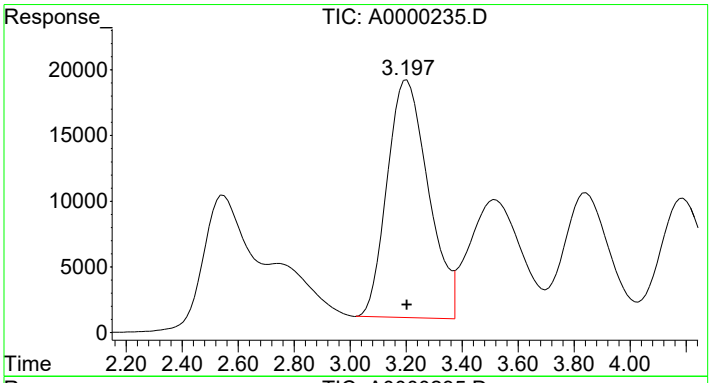
1st AF 09/17/24
2nd AM 09/18/24

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000235.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 19:10:55
Operator : AFelser
Sample : DLCS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:04:24 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation

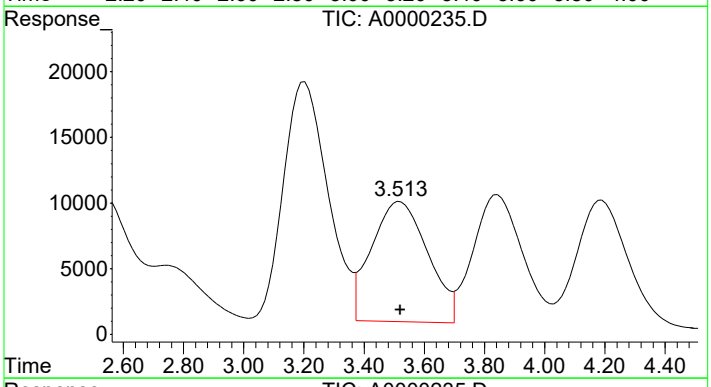
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





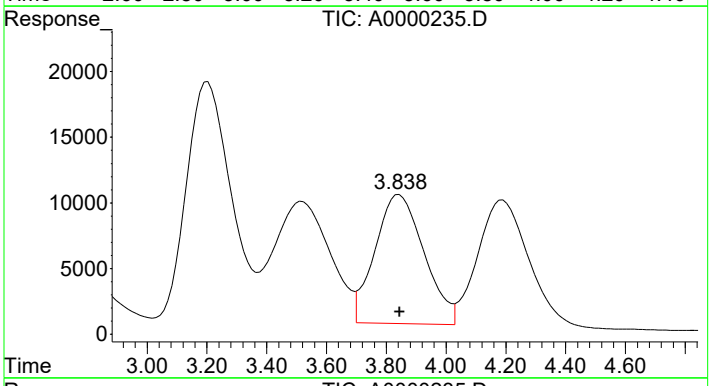
#1 Formic acid

R.T.: 3.203 min
Delta R.T.: 0.000 min
Response: 1845946
Conc: 21.27 ppm



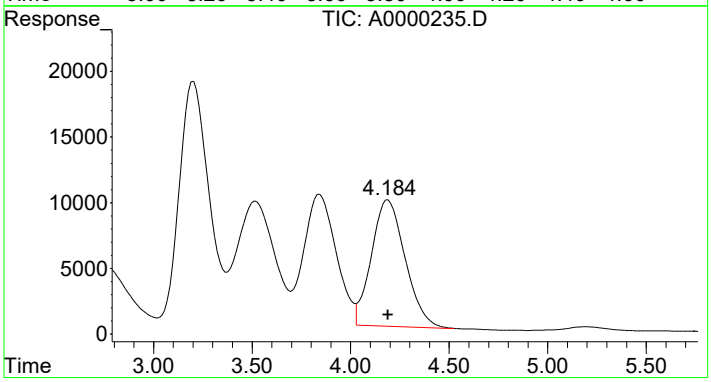
#2 Pyruvic acid

R.T.: 3.519 min
Delta R.T.: -0.002 min
Response: 1185818
Conc: 2.17 ppm



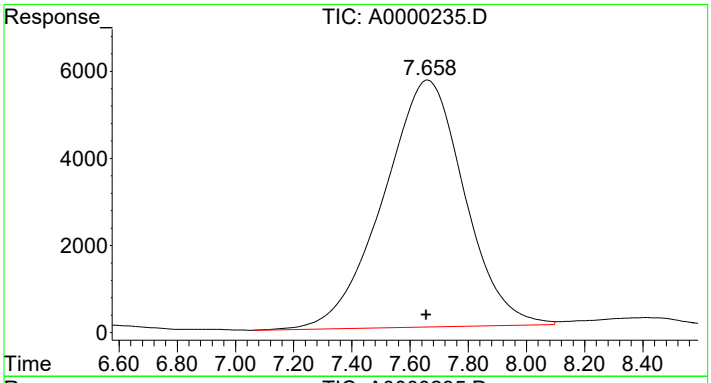
#3 Lactic Acid

R.T.: 3.843 min
Delta R.T.: 0.000 min
Response: 1121414
Conc: 22.20 ppm



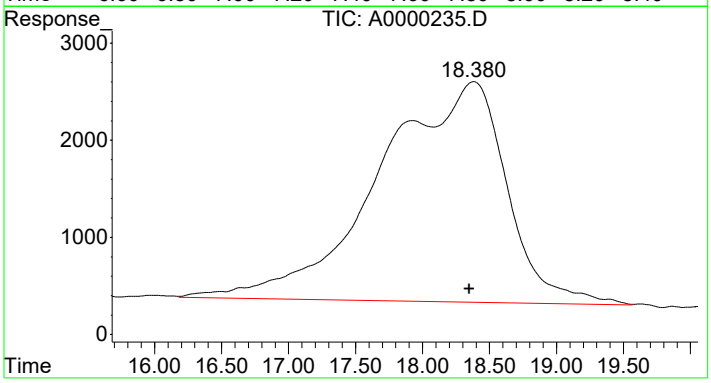
#4 Acetic Acid

R.T.: 4.184 min
Delta R.T.: -0.006 min
Response: 1142151
Conc: 21.89 ppm m



#5 Propionic Acid

R.T.: 7.658 min
Delta R.T.: 0.003 min
Response: 1100832
Conc: 20.64 ppm m



#6 Butyric Acid

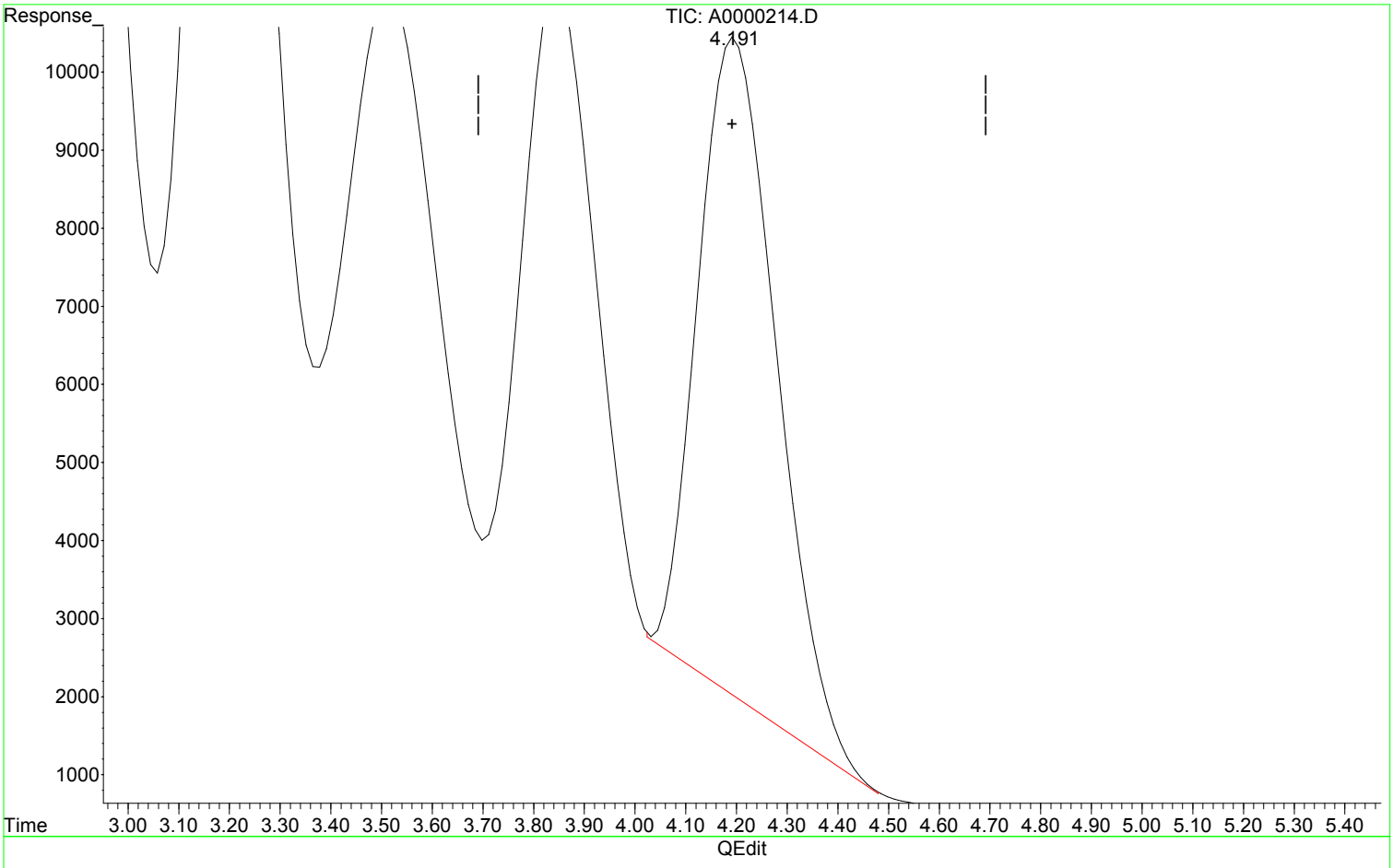
R.T.: 18.380 min
Delta R.T.: 0.030 min
Response: 1501698
Conc: 20.15 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000214.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 03:55:31
Operator : AFelser
Sample : R2408139-008MS
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:35:58 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.191min 17.509 ppm m

response 913780

Manual Integration:

After

Poor integration.

09/05/24

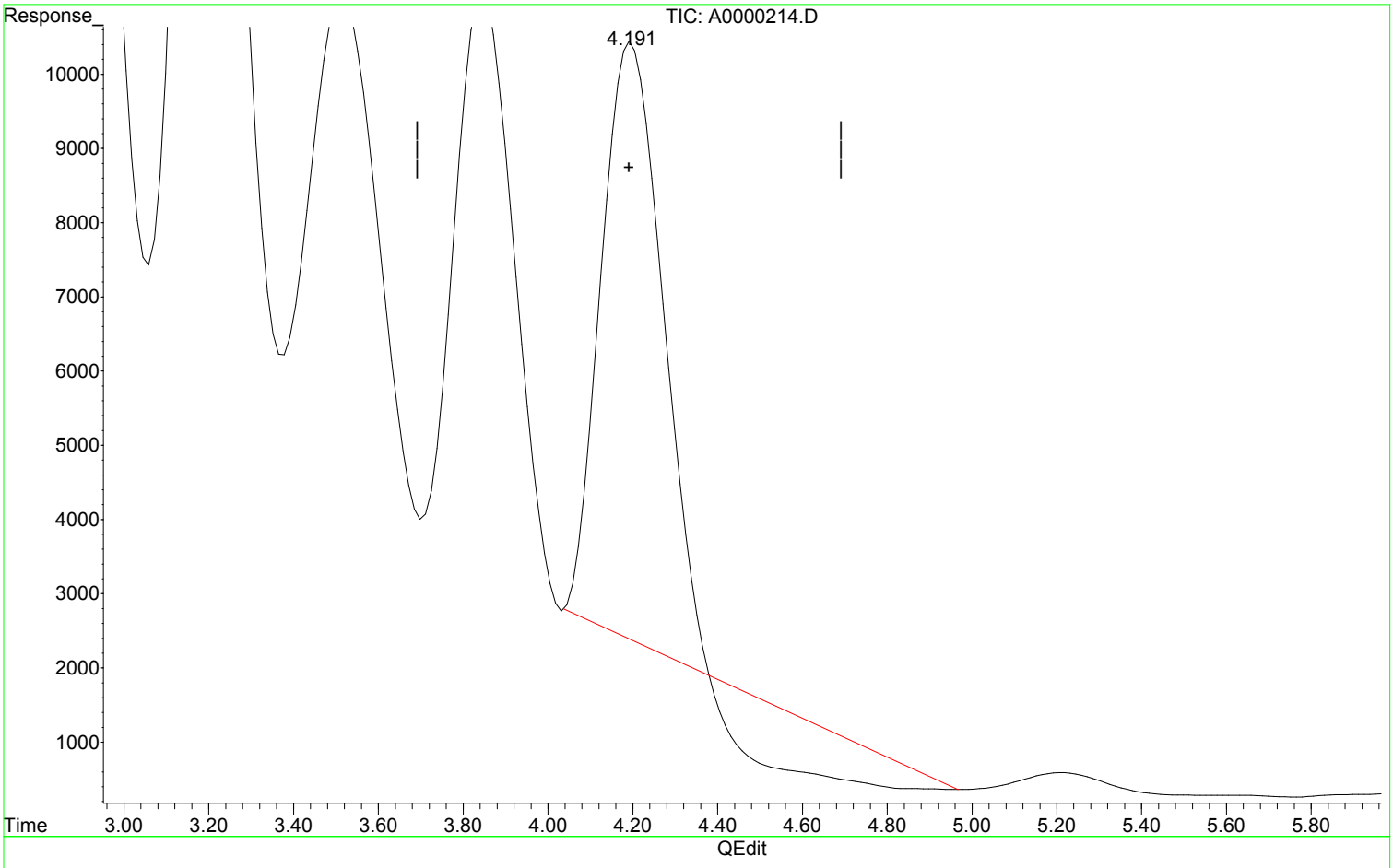
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000214.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 03:55:31
Operator : AFelser
Sample : R2408139-008MS
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:35:58 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.197min 12.368 ppm

response 645445

Manual Integration:

Before

09/05/24

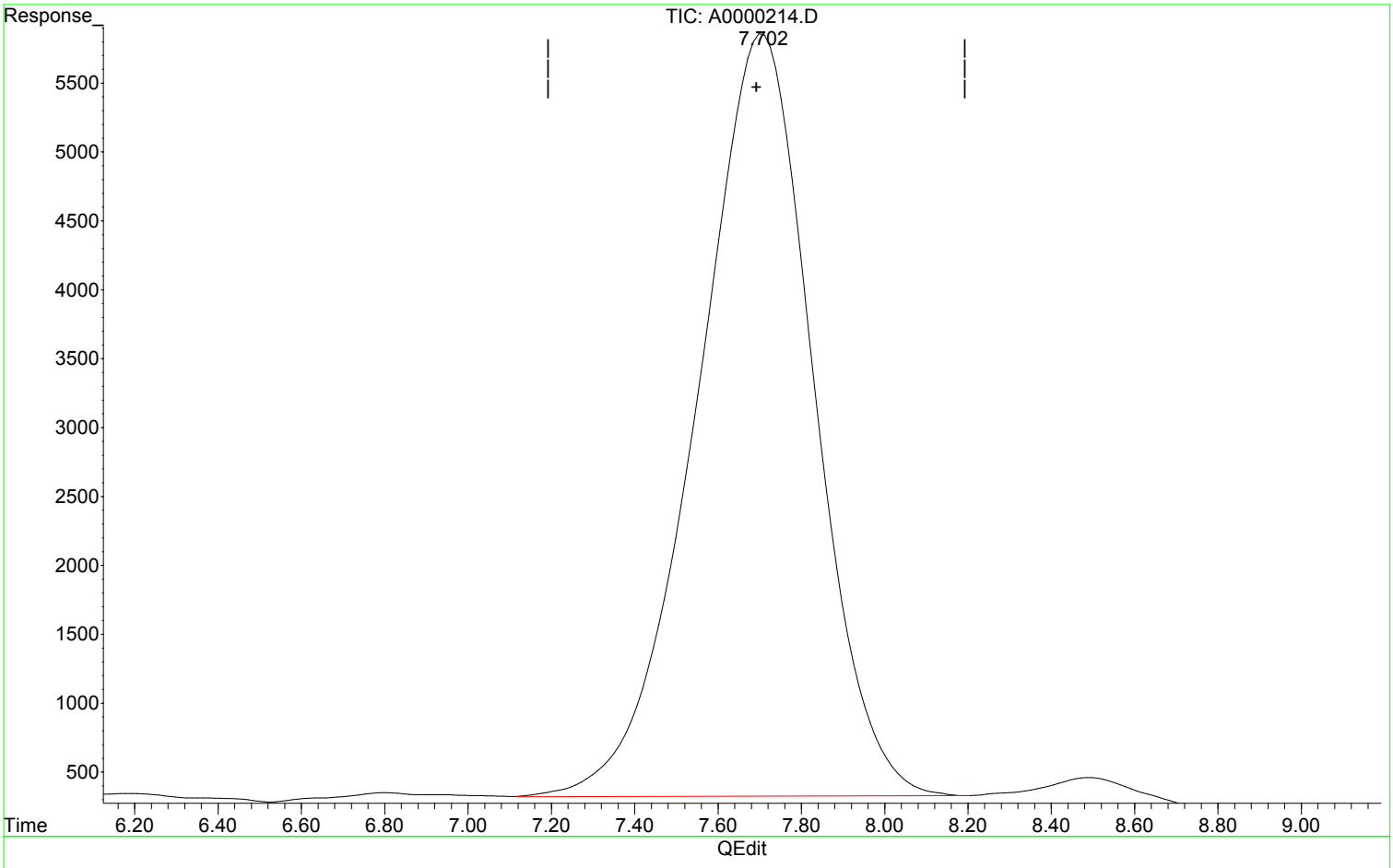
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000214.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 03:55:31
Operator : AFelser
Sample : R2408139-008MS
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:35:58 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.702min 20.052 ppm m

response 1069281

Manual Integration:

After

Poor integration.

09/05/24

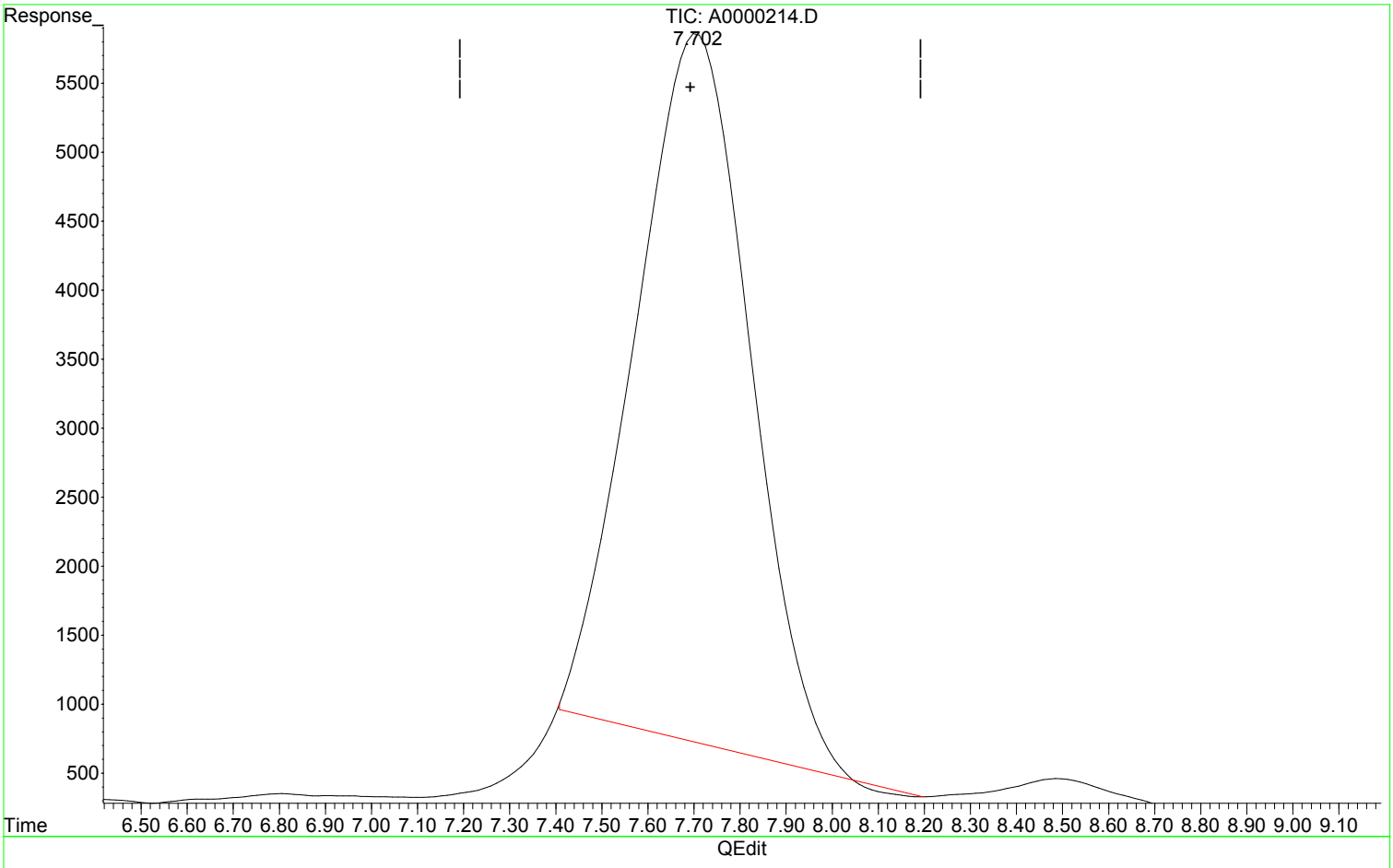
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000214.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 03:55:31
Operator : AFelser
Sample : R2408139-008MS
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:35:58 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.708min 16.713 ppm

response 891235

Manual Integration:

Before

09/05/24

(+) = Expected Retention Time

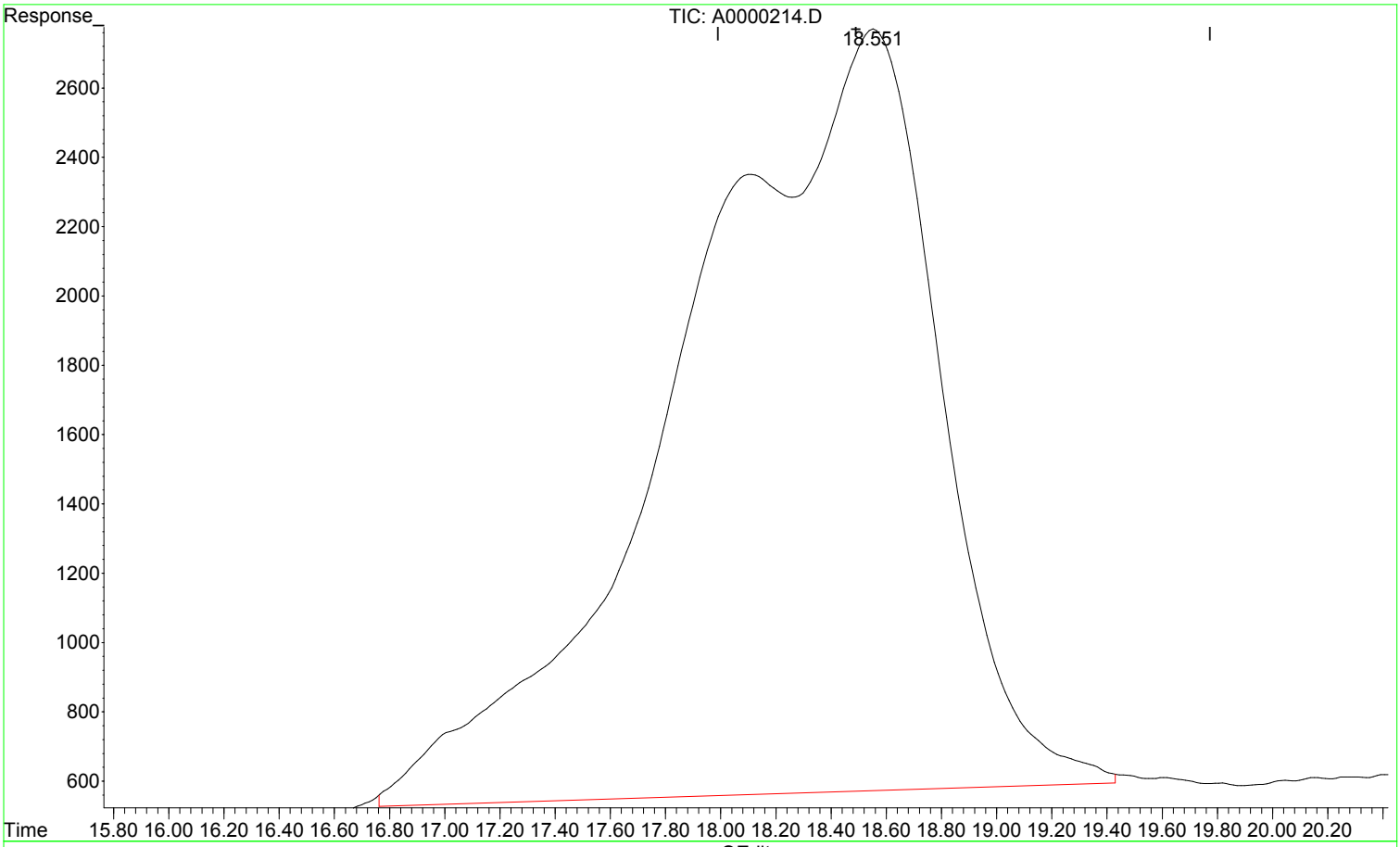
1st AF 09/09/24
2nd AM 09/09/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000214.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 03:55:31
Operator : AFelser
Sample : R2408139-008MS
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:35:58 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.551min 18.979 ppm m

response 1414139

Manual Integration:

After

Poor integration.

09/05/24

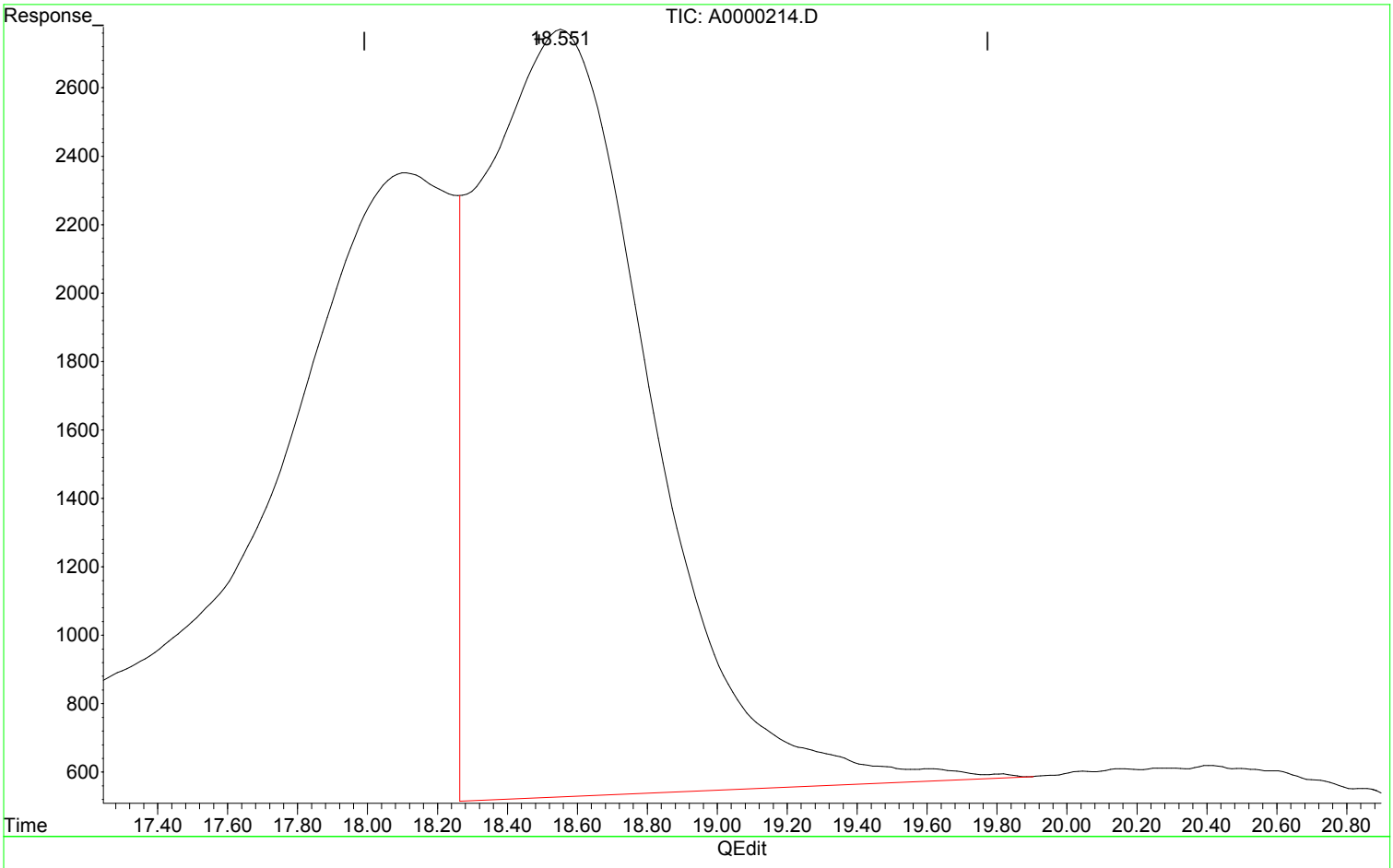
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000214.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 03:55:31
Operator : AFelser
Sample : R2408139-008MS
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:35:58 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.557min 10.213 ppm

response 760992

Manual Integration:

Before

09/05/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000214.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 03:55:31
Operator : AFelser
Sample : R2408139-008MS
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:35:58 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.200	1343399	15.479	ppm	
2) T	Pyruvic acid	3.518	617149	1.163	ppm	
3) T	Lactic Acid	3.849	715744	14.361	ppm	
4) T	Acetic Acid	4.191	913780	17.509	ppm	m
5) T	Propionic Acid	7.702	1069281	20.052	ppm	m
6) T	Butyric Acid	18.551	1414139	18.979	ppm	m

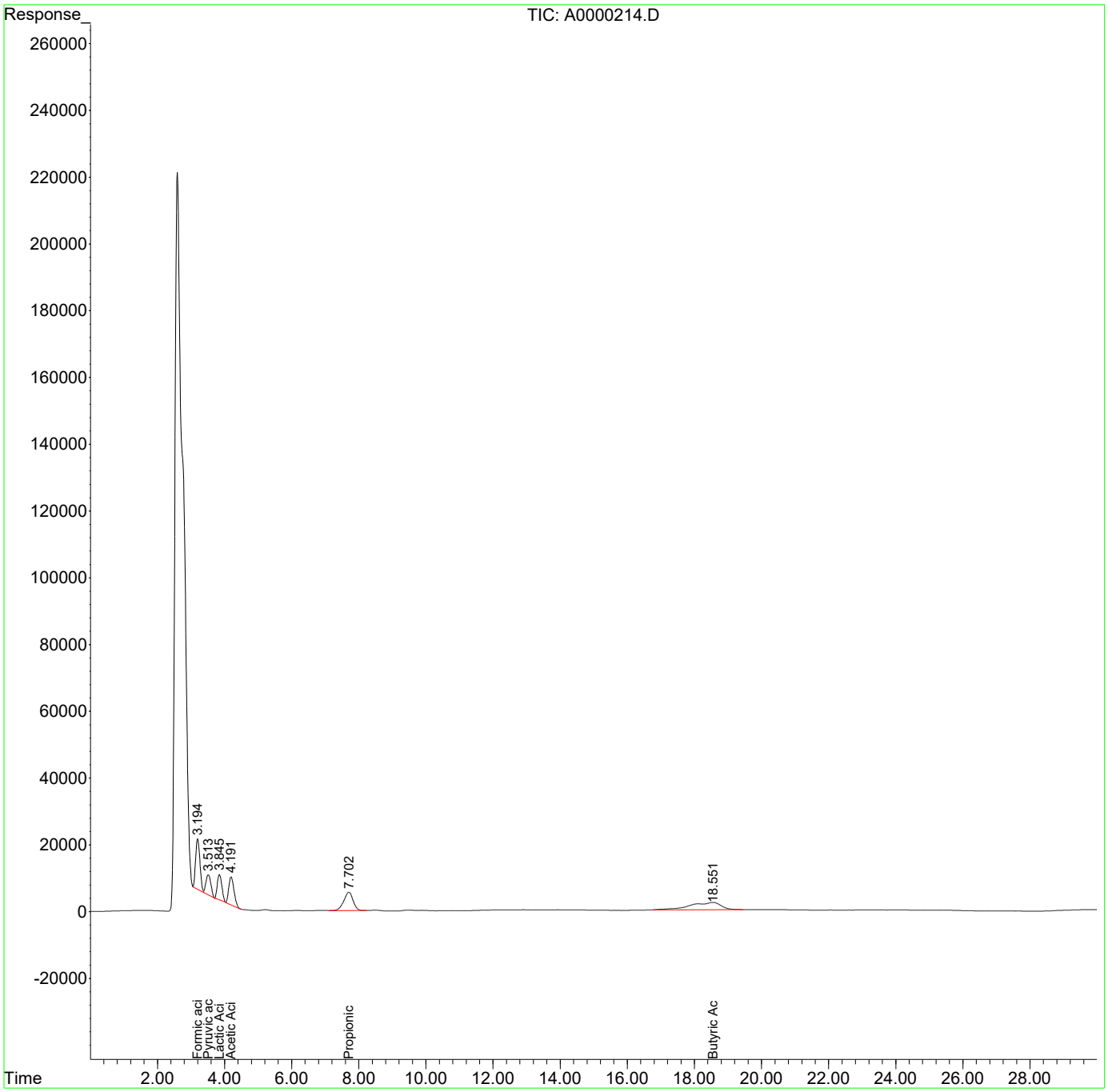
(f)=RT Delta > 1/2 Window (m)=manual int.

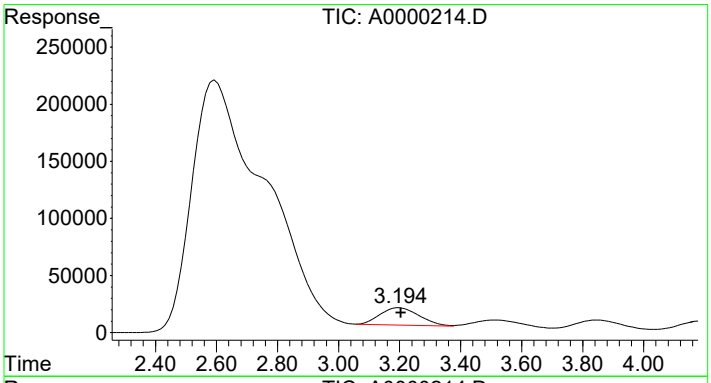
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000214.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 03:55:31
Operator : AFelser
Sample : R2408139-008MS
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:35:58 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

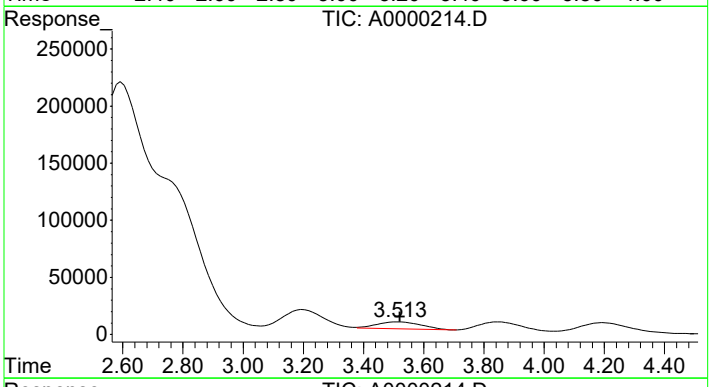
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





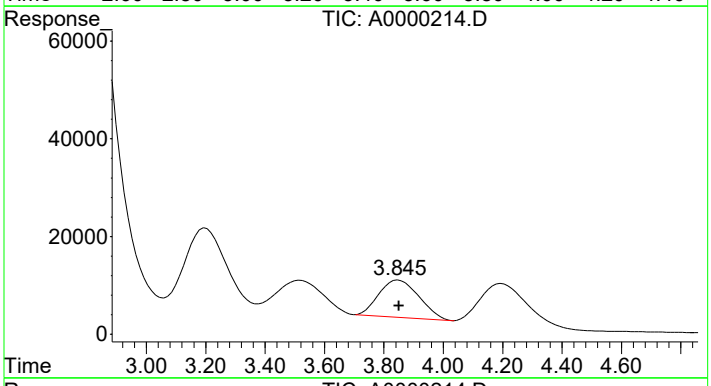
#1 Formic acid

R.T.: 3.200 min
Delta R.T.: -0.005 min
Response: 1343399
Conc: 15.48 ppm



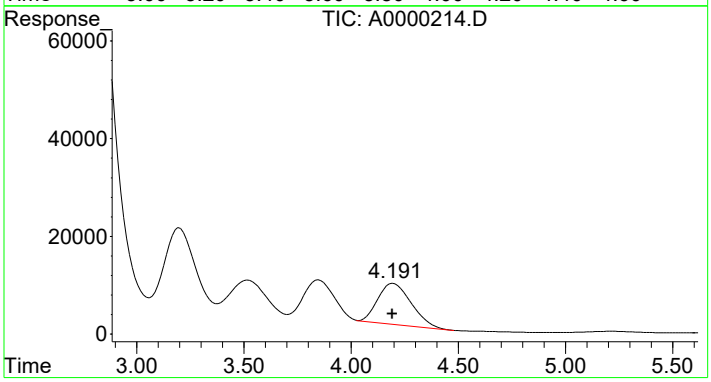
#2 Pyruvic acid

R.T.: 3.518 min
Delta R.T.: -0.003 min
Response: 617149
Conc: 1.16 ppm



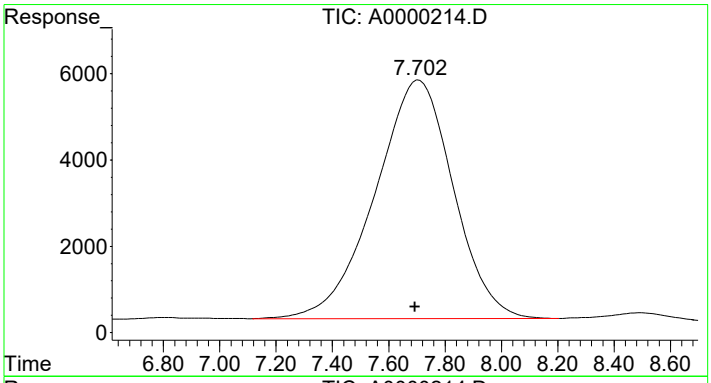
#3 Lactic Acid

R.T.: 3.849 min
Delta R.T.: -0.001 min
Response: 715744
Conc: 14.36 ppm



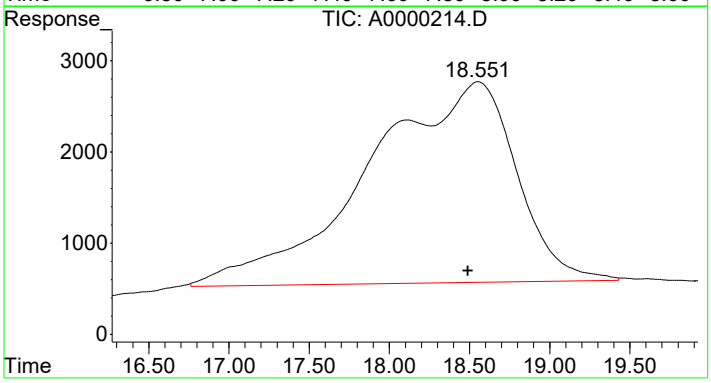
#4 Acetic Acid

R.T.: 4.191 min
Delta R.T.: 0.000 min
Response: 913780
Conc: 17.51 ppm m



#5 Propionic Acid

R.T.: 7.702 min
Delta R.T.: 0.010 min
Response: 1069281
Conc: 20.05 ppm m



#6 Butyric Acid

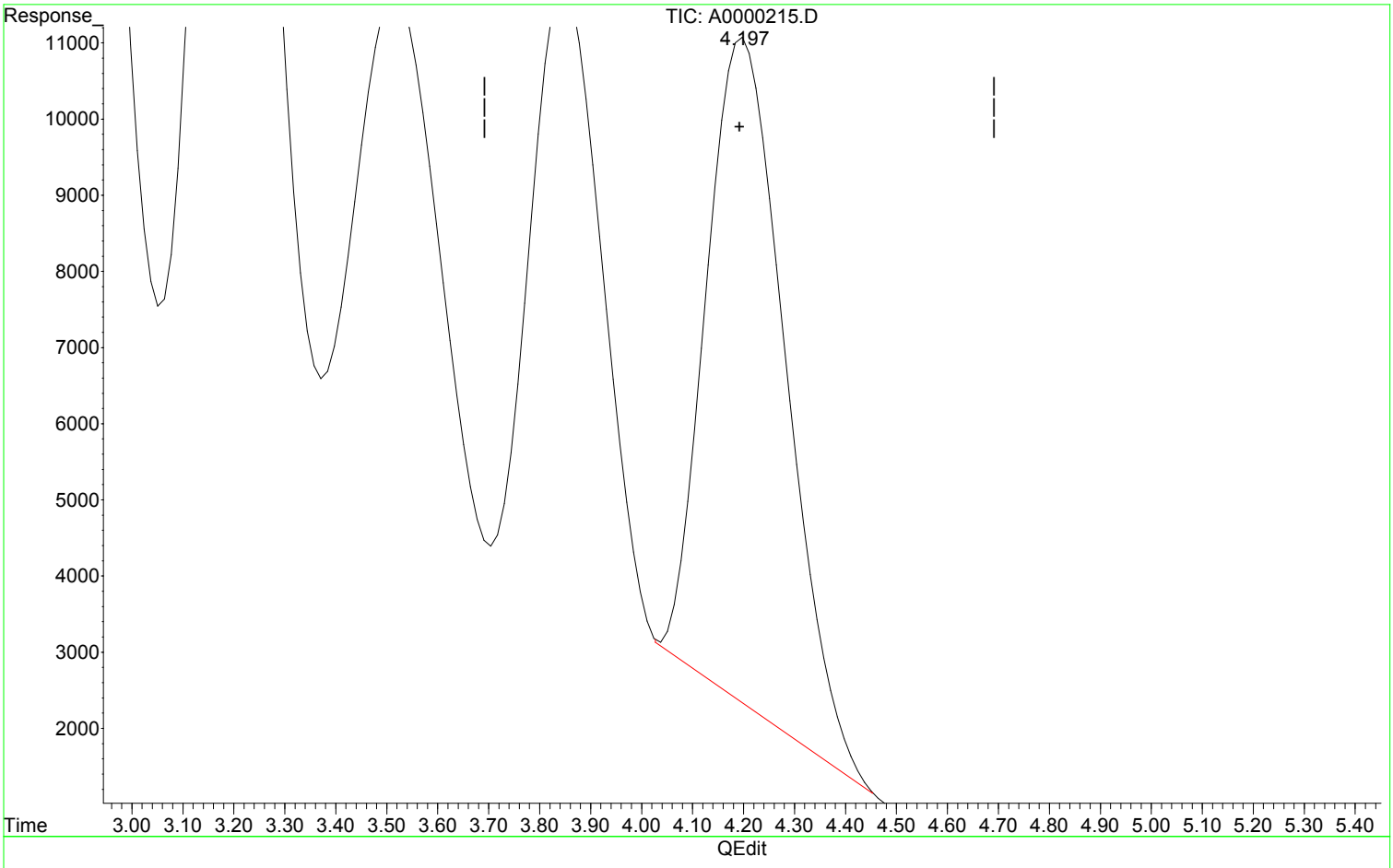
R.T.: 18.551 min
Delta R.T.: 0.060 min
Response: 1414139
Conc: 18.98 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000215.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 04:27:19
Operator : AFelser
Sample : R2408139-008DMS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:00 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.197min 18.136 ppm m

response 946477

Manual Integration:

After

Poor integration.

09/05/24

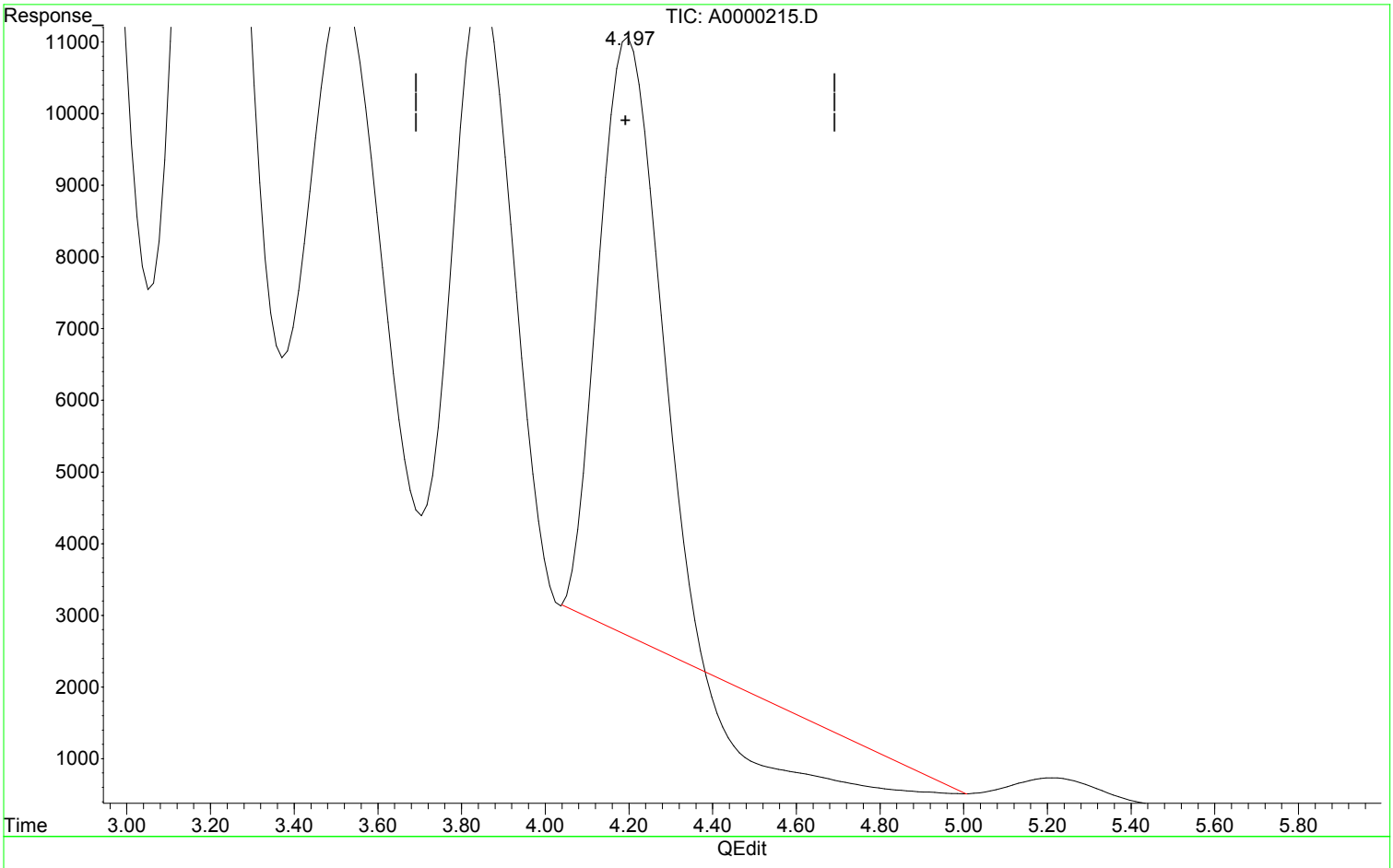
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000215.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 04:27:19
Operator : AFelser
Sample : R2408139-008DMS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:00 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.200min 12.444 ppm

response 649436

Manual Integration:

Before

09/05/24

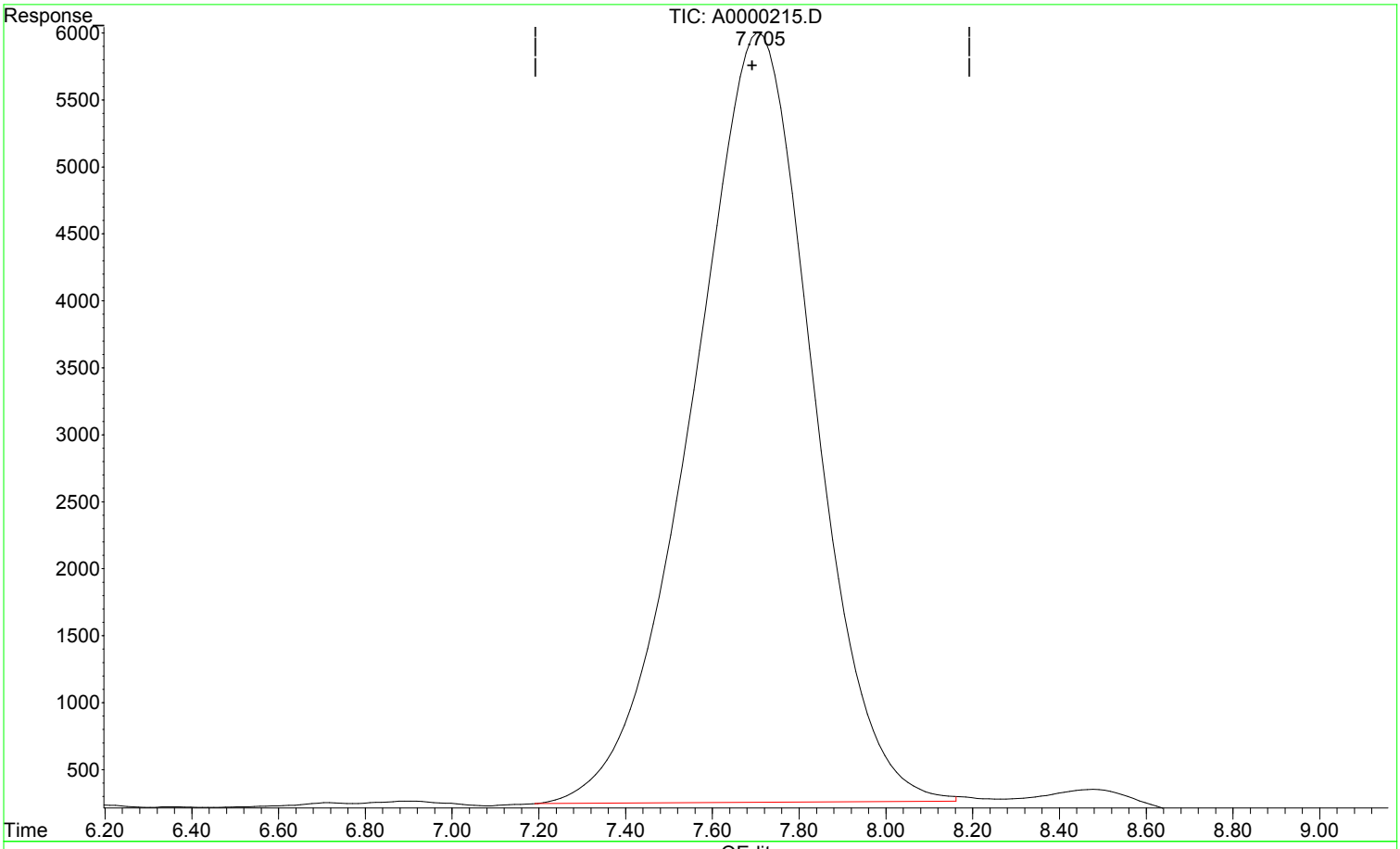
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000215.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 04:27:19
Operator : AFelser
Sample : R2408139-008DMS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:00 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.705min 20.734 ppm m

response 1105636

Manual Integration:

After

Poor integration.

09/05/24

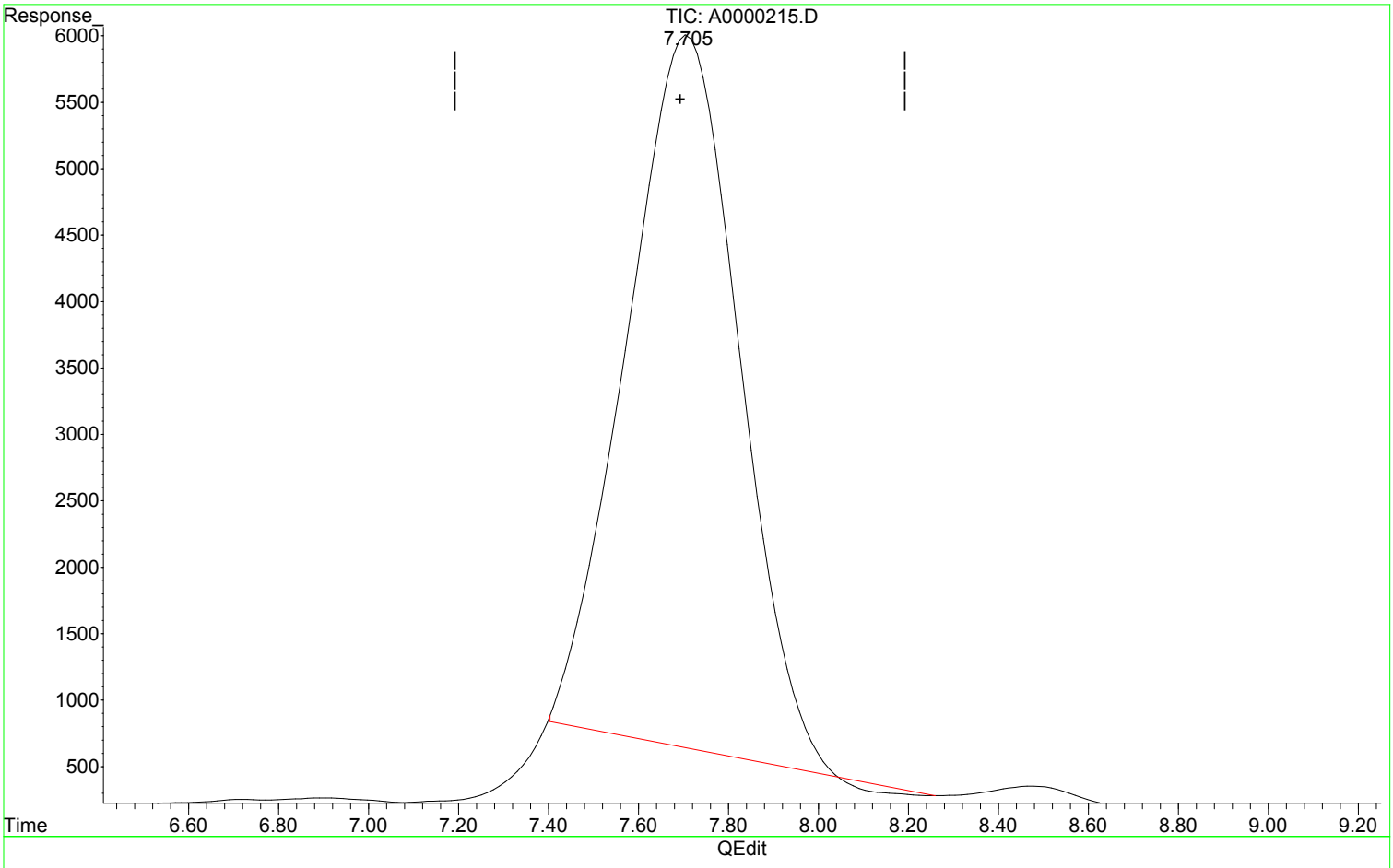
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000215.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 04:27:19
Operator : AFelser
Sample : R2408139-008DMS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:00 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.710min 17.477 ppm

response 931954

Manual Integration:

Before

09/05/24

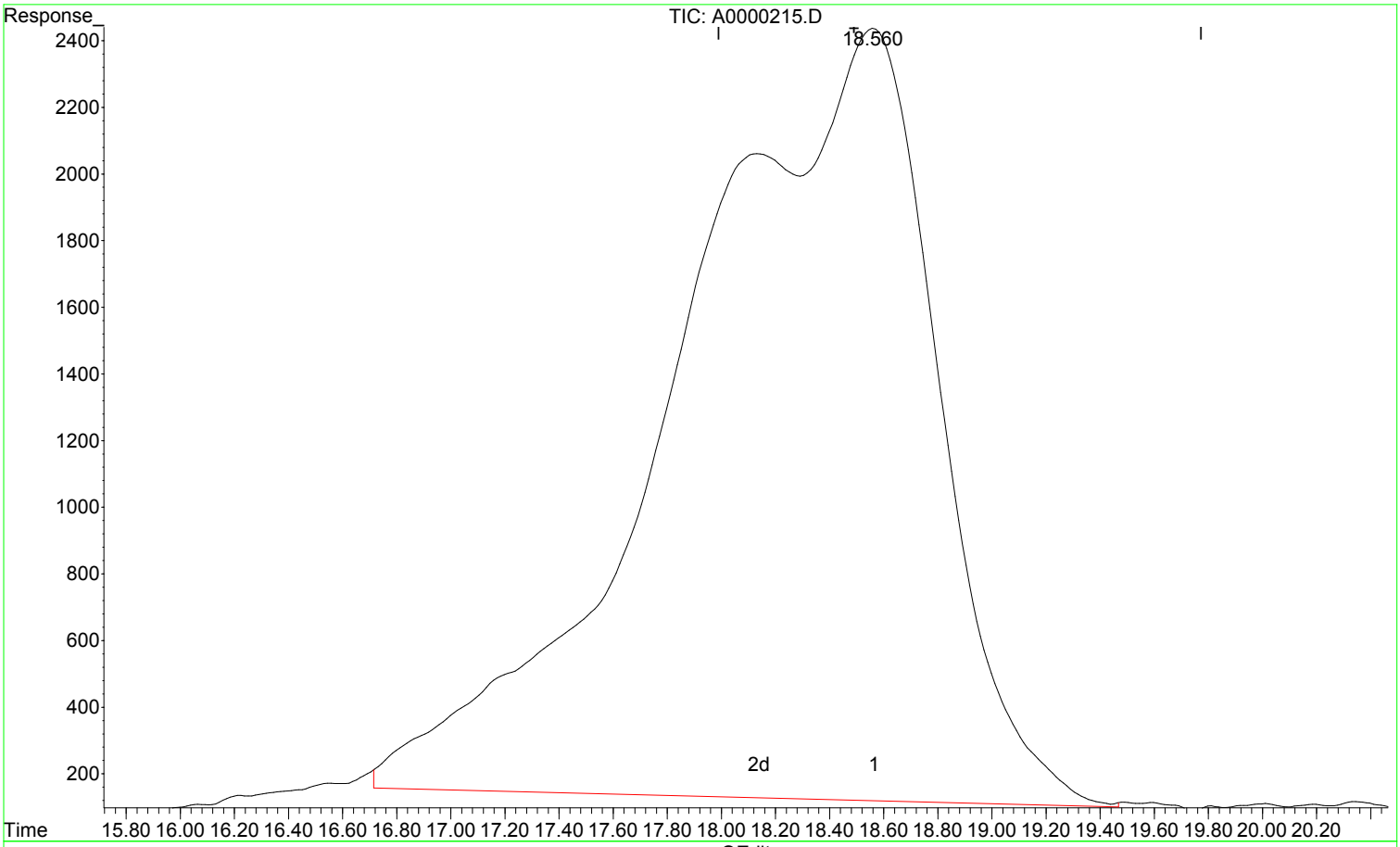
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000215.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 04:27:19
Operator : AFelser
Sample : R2408139-008DMS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:00 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.560min 20.513 ppm m

response 1528450

Manual Integration:

After

Poor integration.

09/05/24

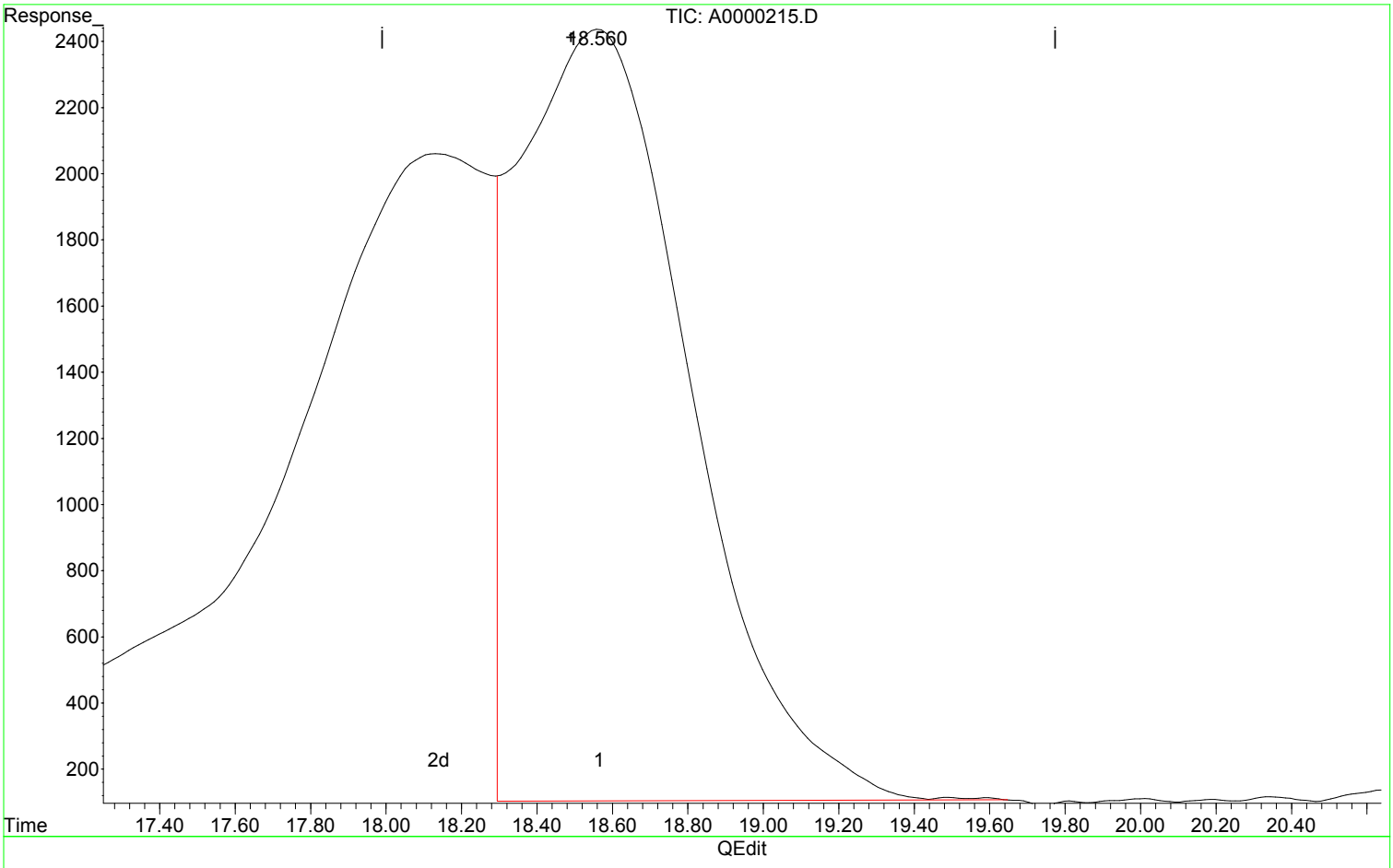
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000215.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 04:27:19
Operator : AFelser
Sample : R2408139-008DMS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:00 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.566min 10.044 ppm

response 748399

Manual Integration:

Before

09/05/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000215.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 04:27:19
Operator : AFelser
Sample : R2408139-008DMS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:00 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.200	1407204	16.214	ppm	
2) T	Pyruvic acid	3.520	655581	1.231	ppm	
3) T	Lactic Acid	3.851	745015	14.927	ppm	
4) T	Acetic Acid	4.197	946477	18.136	ppm	m
5) T	Propionic Acid	7.705	1105636	20.734	ppm	m
6) T	Butyric Acid	18.560	1528450	20.513	ppm	m

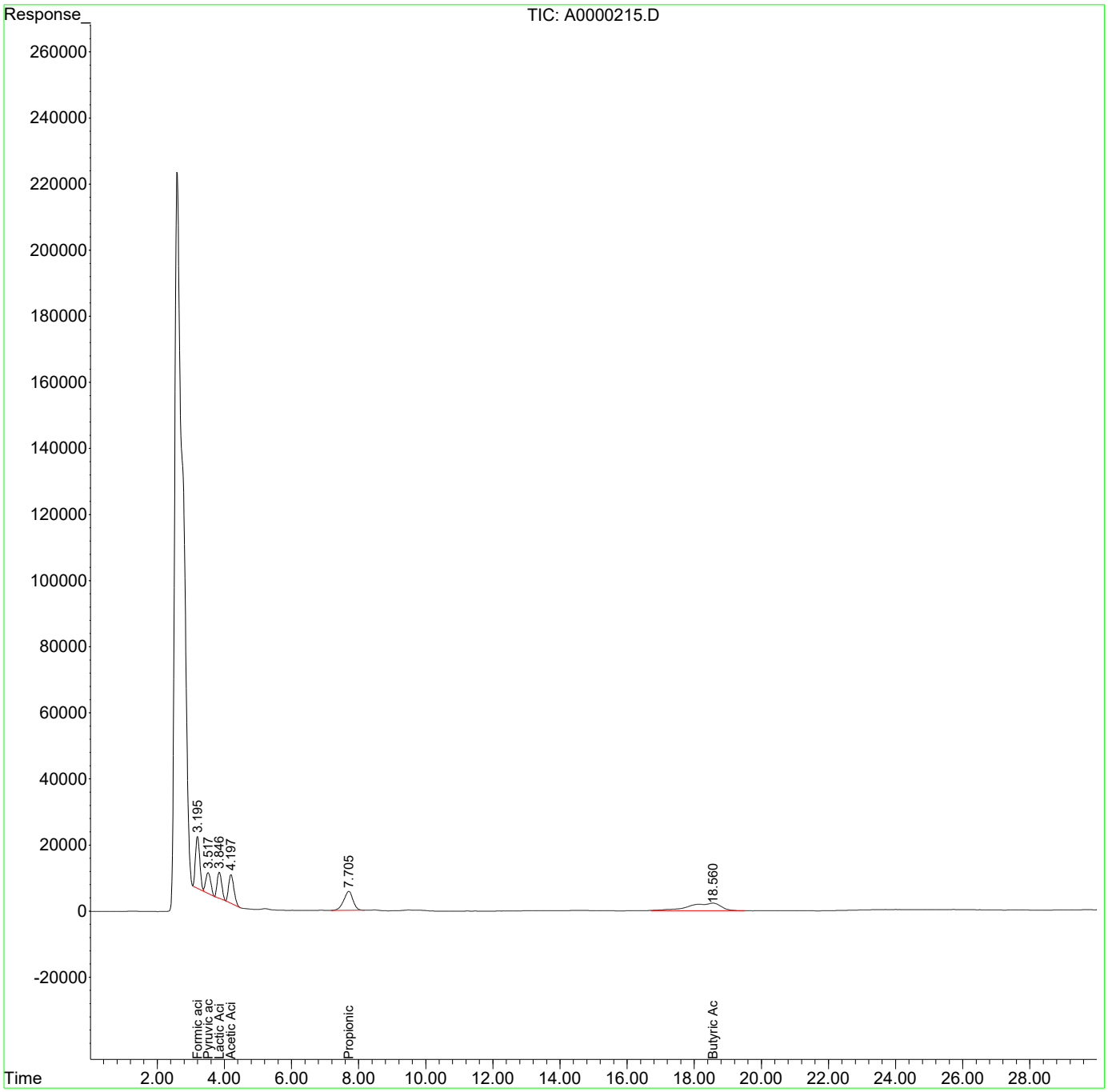
(f)=RT Delta > 1/2 Window (m)=manual int.

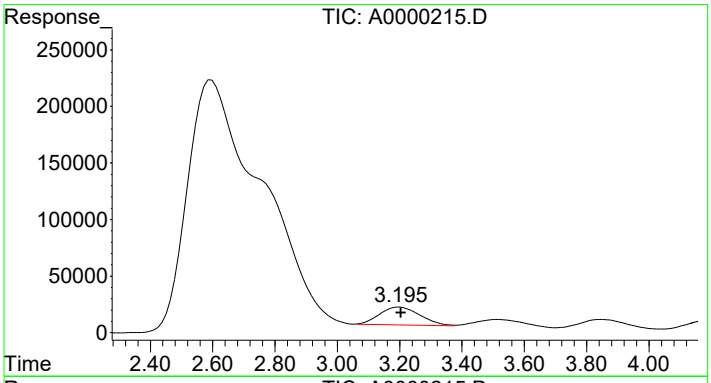
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000215.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 04:27:19
Operator : AFelser
Sample : R2408139-008DMS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:00 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

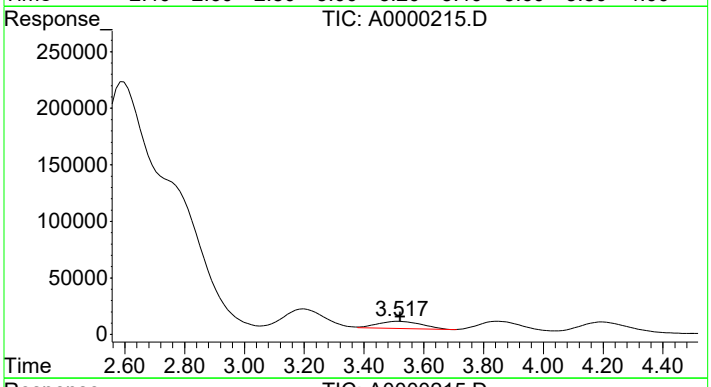
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





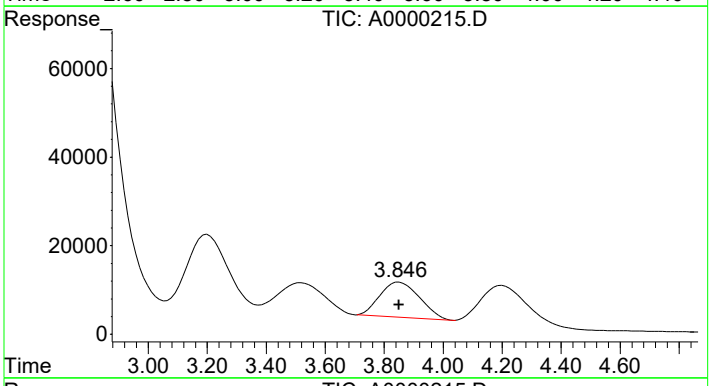
#1 Formic acid

R.T.: 3.200 min
Delta R.T.: -0.004 min
Response: 1407204
Conc: 16.21 ppm



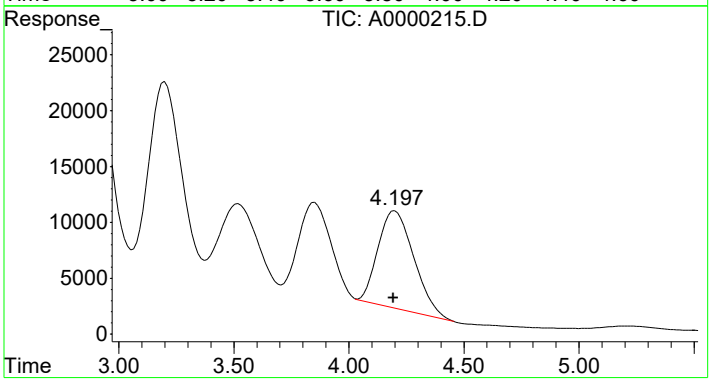
#2 Pyruvic acid

R.T.: 3.520 min
Delta R.T.: -0.002 min
Response: 655581
Conc: 1.23 ppm



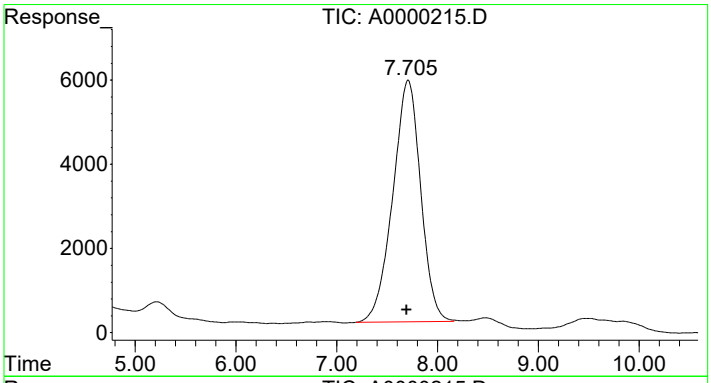
#3 Lactic Acid

R.T.: 3.851 min
Delta R.T.: 0.000 min
Response: 745015
Conc: 14.93 ppm



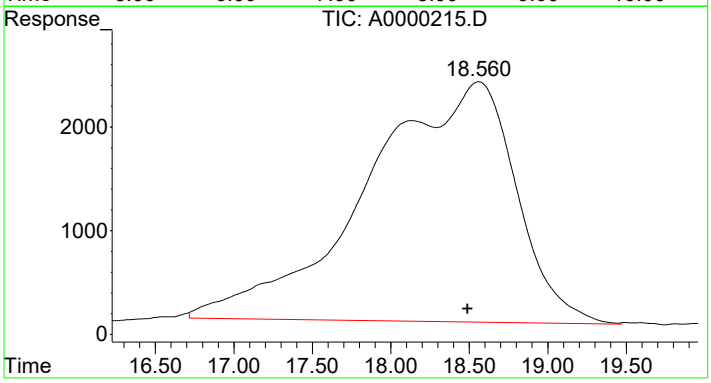
#4 Acetic Acid

R.T.: 4.197 min
Delta R.T.: 0.005 min
Response: 946477
Conc: 18.14 ppm m



#5 Propionic Acid

R.T.: 7.705 min
Delta R.T.: 0.012 min
Response: 1105636
Conc: 20.73 ppm m



#6 Butyric Acid

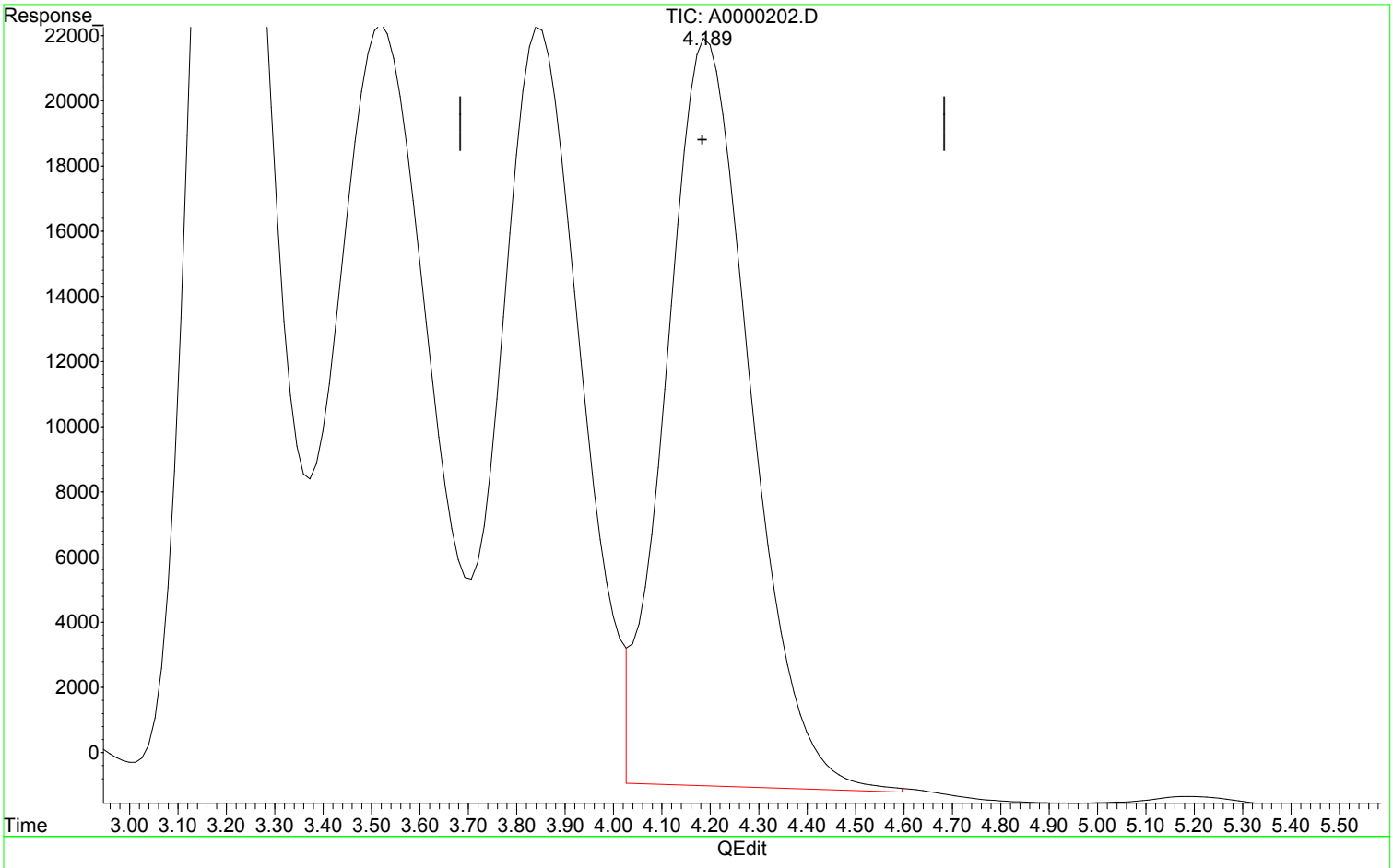
R.T.: 18.560 min
Delta R.T.: 0.069 min
Response: 1528450
Conc: 20.51 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000202.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 21:34:11
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:32:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:32:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.189min 53.413 ppm m

response 2787556

Manual Integration:

After

Poor integration.

09/05/24

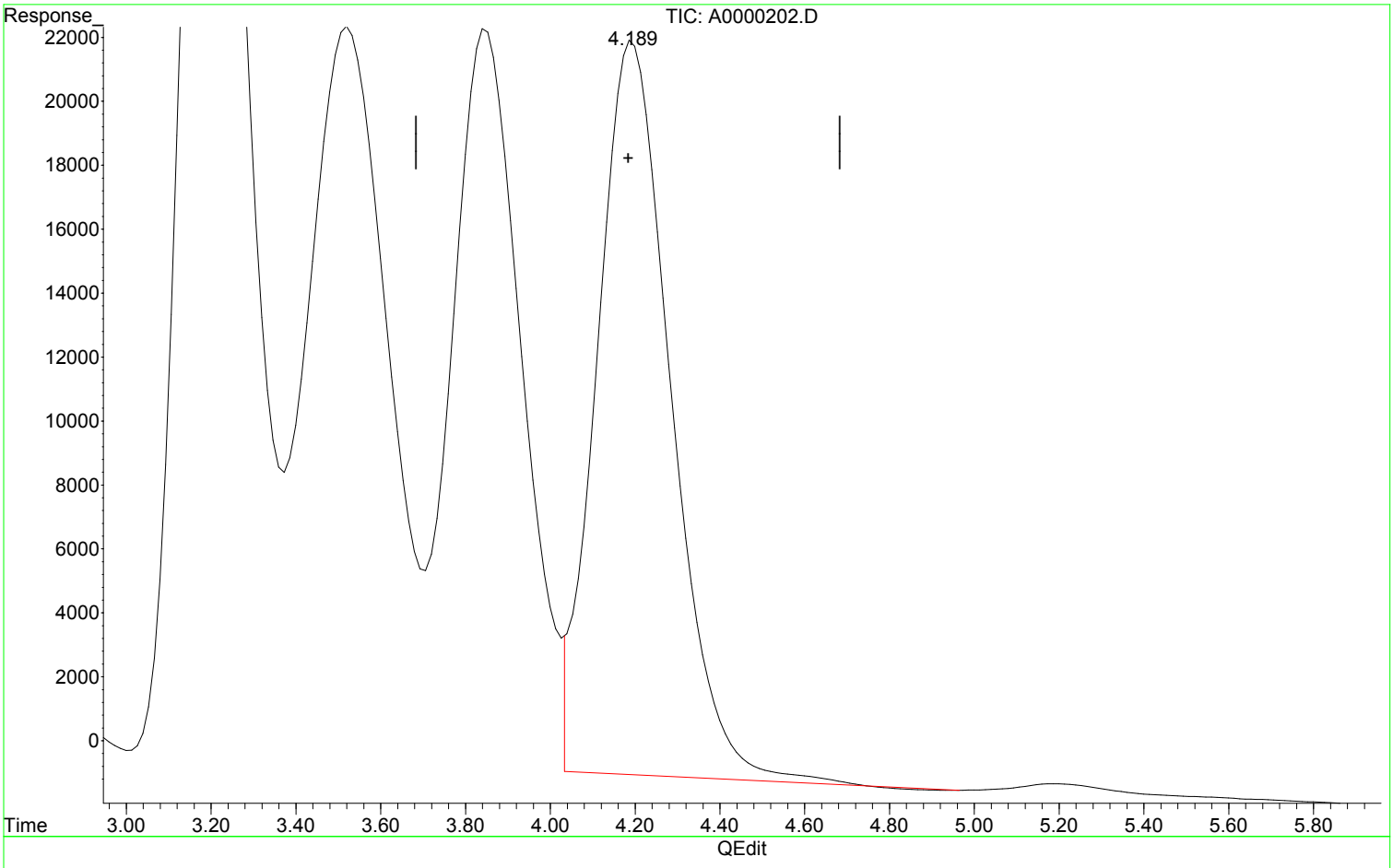
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000202.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 21:34:11
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:32:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:32:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.195min 53.903 ppm

response 2813104

Manual Integration:

Before

09/05/24

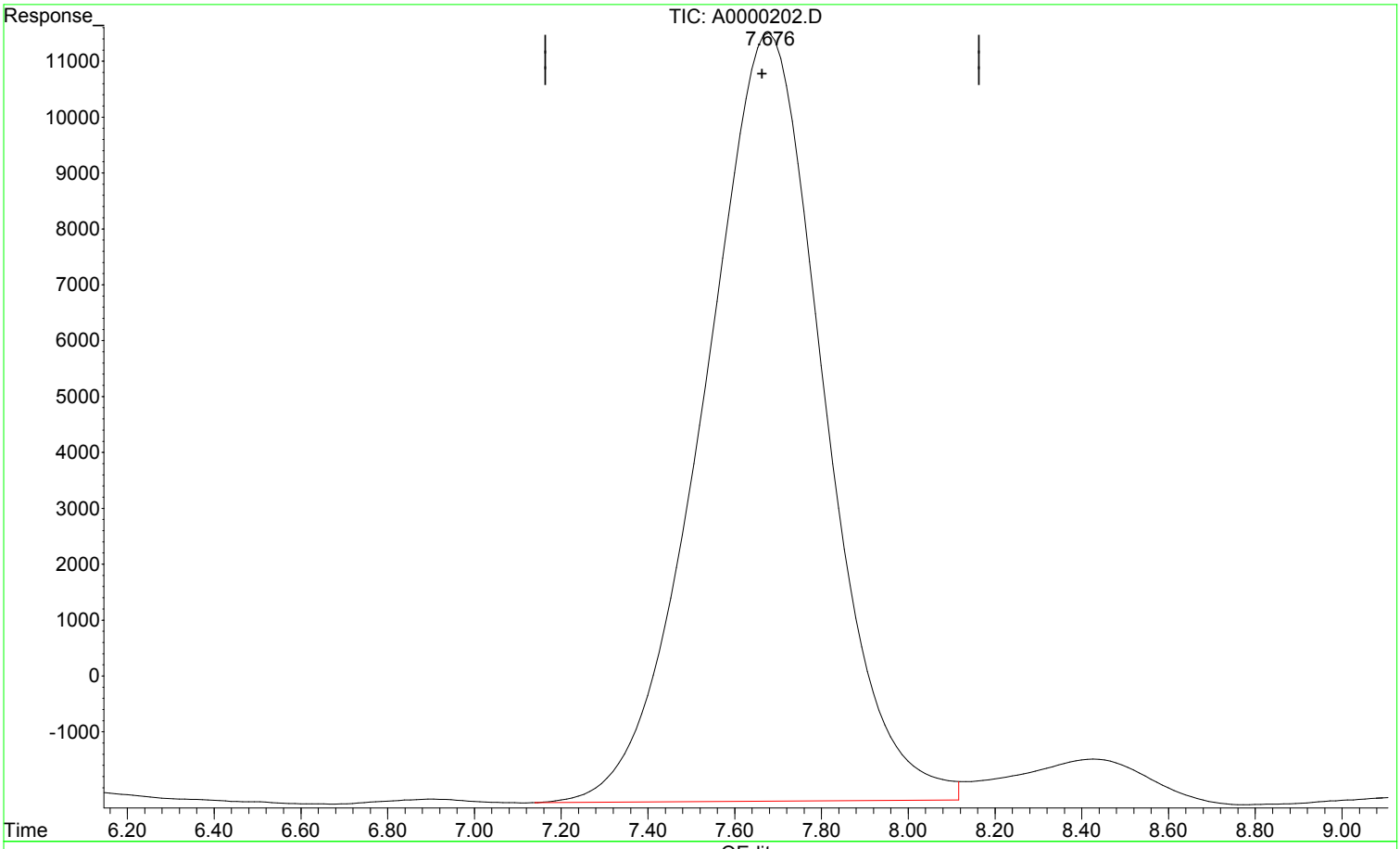
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000202.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 21:34:11
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:32:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:32:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.676min 49.486 ppm m

response 2638845

Manual Integration:

After

Poor integration.

09/05/24

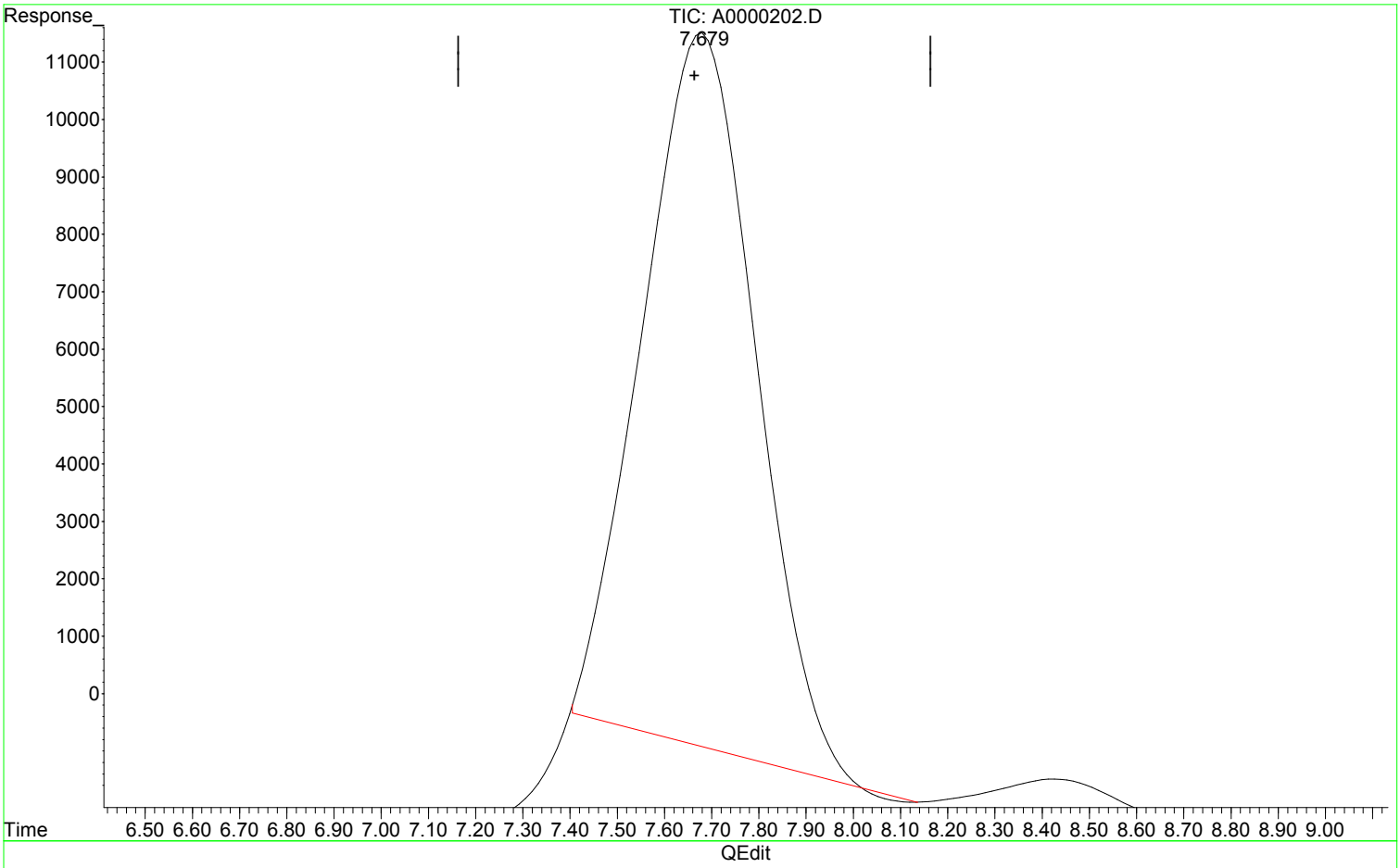
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000202.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 21:34:11
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:32:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:32:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.681min 39.032 ppm

response 2081396

Manual Integration:

Before

09/05/24

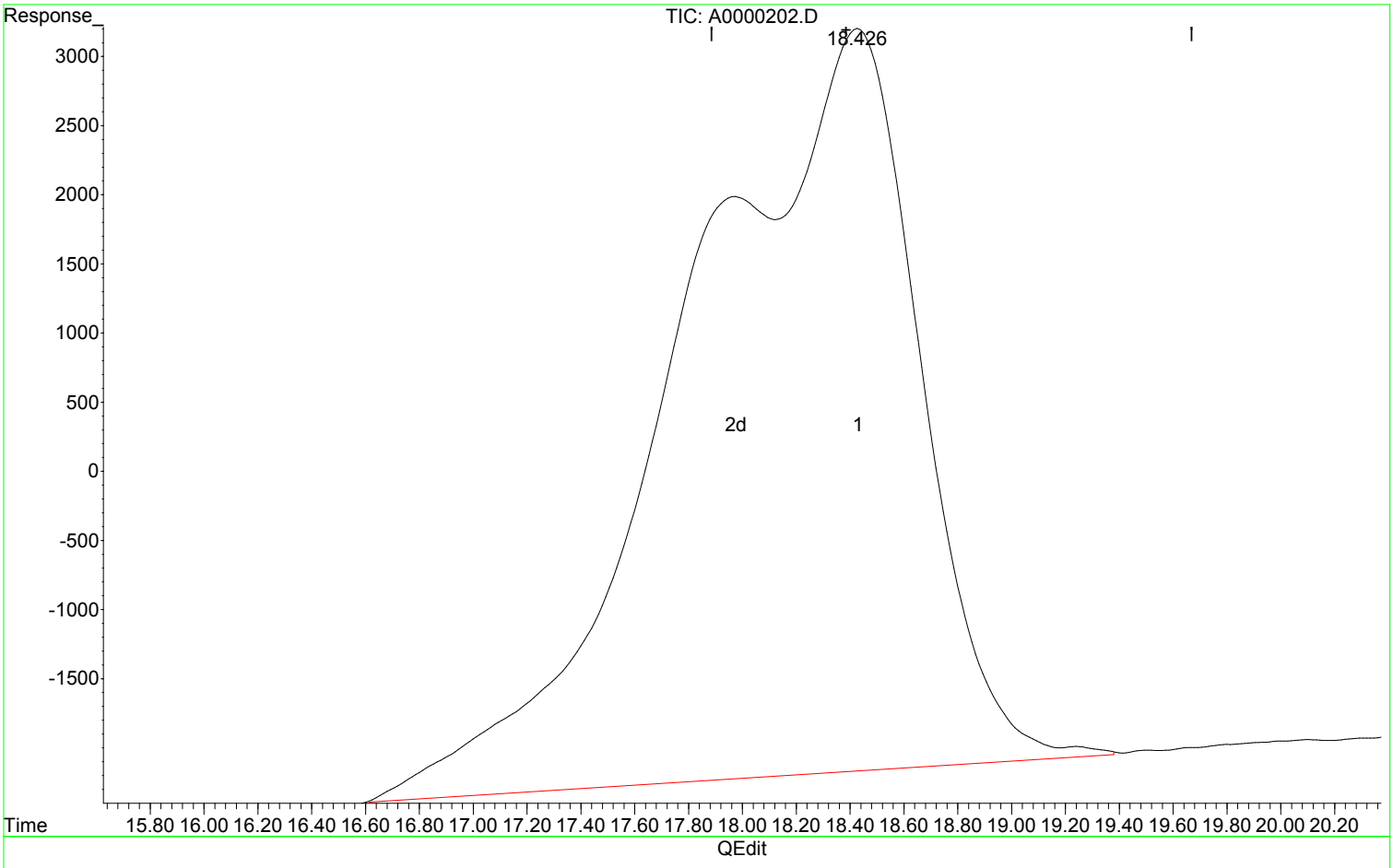
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000202.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 21:34:11
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:32:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:32:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.426min 43.581 ppm m

response 3247222

Manual Integration:

After

Poor integration.

09/05/24

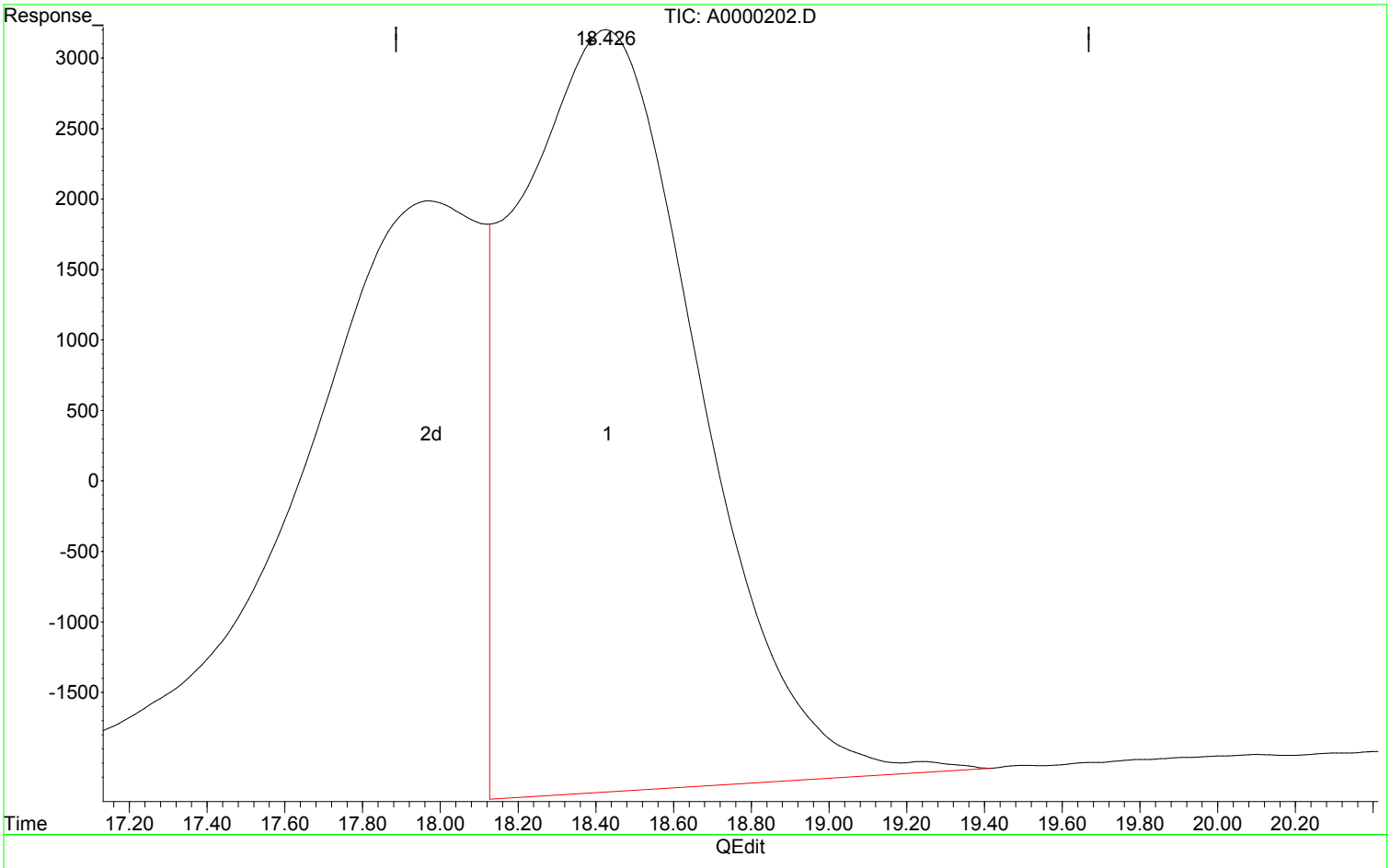
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000202.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 21:34:11
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:32:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:32:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.431min 23.719 ppm

response 1767299

Manual Integration:

Before

09/05/24

(+) = Expected Retention Time

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000202.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 21:34:11
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:32:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:32:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 t	Formic acid	50.000	52.121	-4.2	101	0.00
2 T	Pyruvic acid	5.000	5.408	-8.2	115	0.00
3 T	Lactic Acid	50.000	52.162	-4.3	110	0.00
4 T	Acetic Acid	50.000	53.413	-6.8	104	0.00
5 T	Propionic Acid	50.000	49.486	1.0	95	0.01
6 T	Butyric Acid	50.000	43.581	12.8	86	0.04

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000202.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 21:34:11
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:32:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:32:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.204	4523489	52.121	ppm	
2) T	Pyruvic acid	3.523	3018313	5.408	ppm	
3) T	Lactic Acid	3.850	2672362	52.162	ppm	
4) T	Acetic Acid	4.189	2787556	53.413	ppm	m
5) T	Propionic Acid	7.676	2638845	49.486	ppm	m
6) T	Butyric Acid	18.426	3247222	43.581	ppm	m

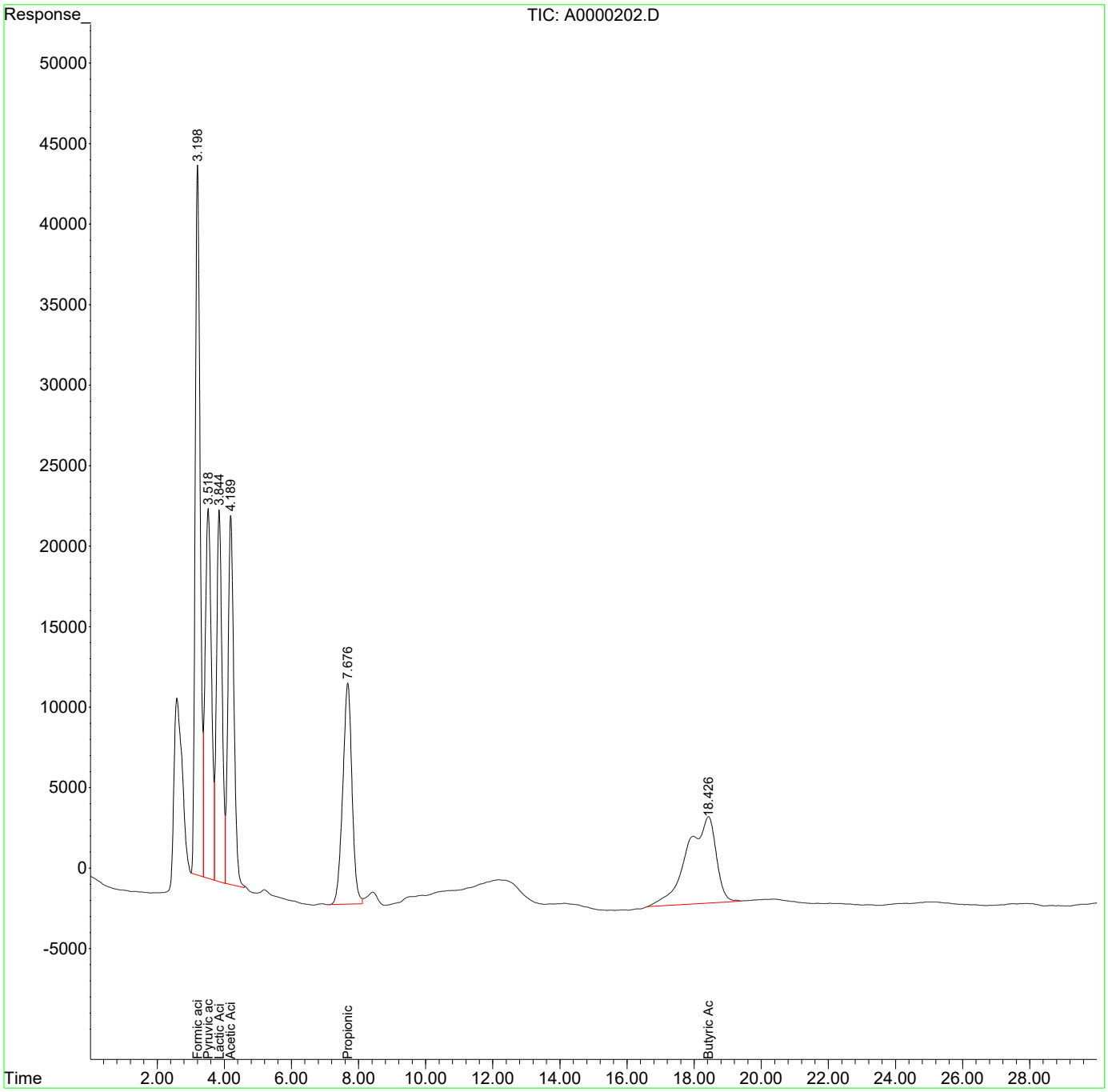
(f)=RT Delta > 1/2 Window (m)=manual int.

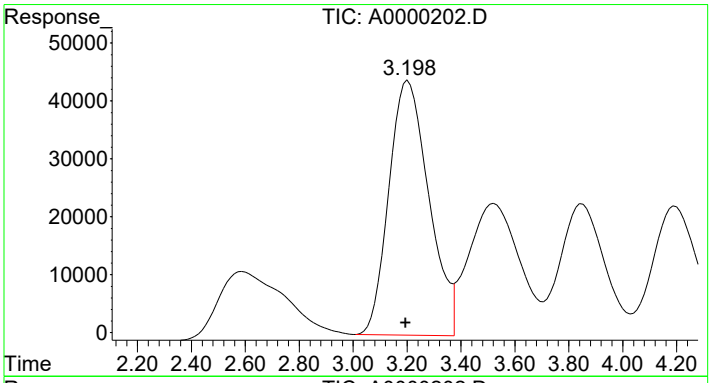
1st AF 09/09/24
2nd AM 09/09/24

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000202.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 21:34:11
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:32:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:32:07 2024
Response via : Initial Calibration
Integrator: ChemStation

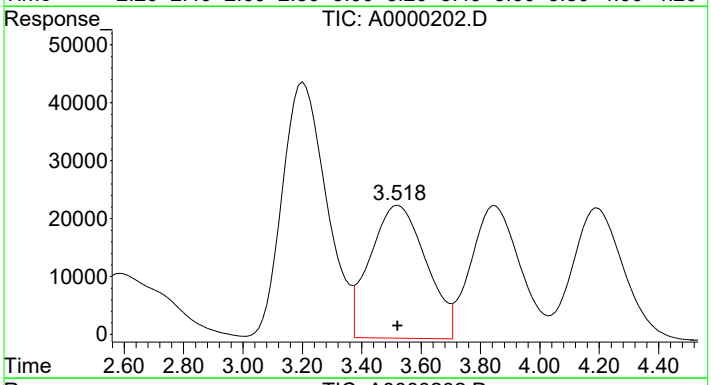
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





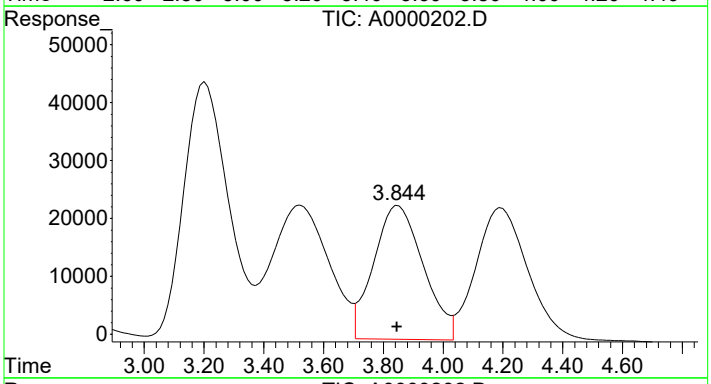
#1 Formic acid

R.T.: 3.204 min
Delta R.T.: 0.009 min
Response: 4523489
Conc: 52.12 ppm



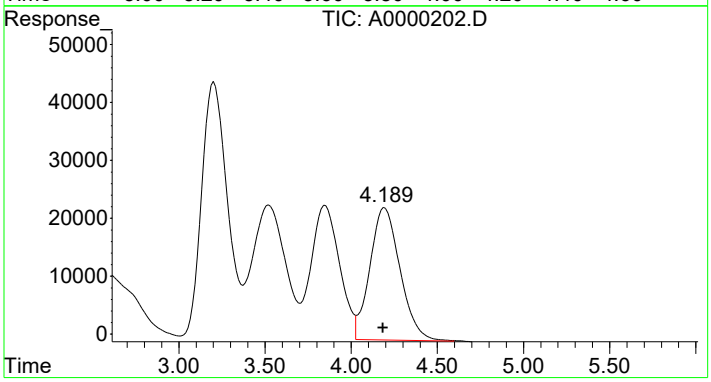
#2 Pyruvic acid

R.T.: 3.523 min
Delta R.T.: 0.003 min
Response: 3018313
Conc: 5.41 ppm



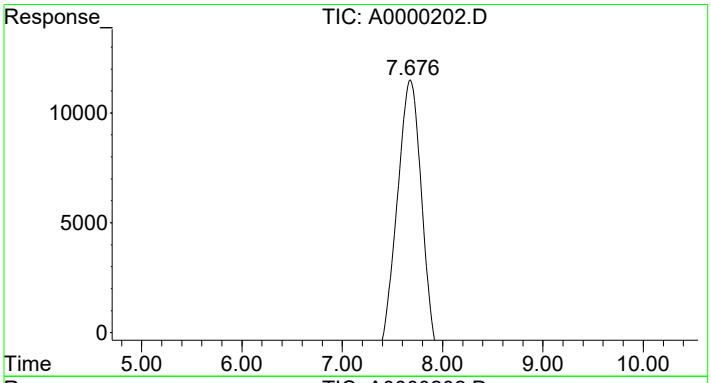
#3 Lactic Acid

R.T.: 3.850 min
Delta R.T.: 0.004 min
Response: 2672362
Conc: 52.16 ppm



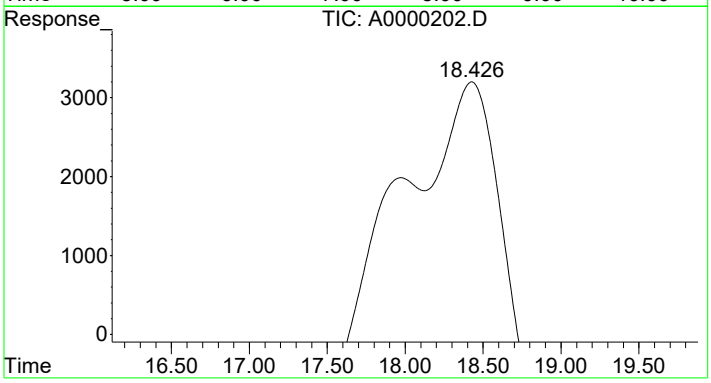
#4 Acetic Acid

R.T.: 4.189 min
Delta R.T.: 0.005 min
Response: 2787556
Conc: 53.41 ppm m



#5 Propionic Acid

R.T.: 7.676 min
Delta R.T.: 0.012 min
Response: 2638845
Conc: 49.49 ppm m



#6 Butyric Acid

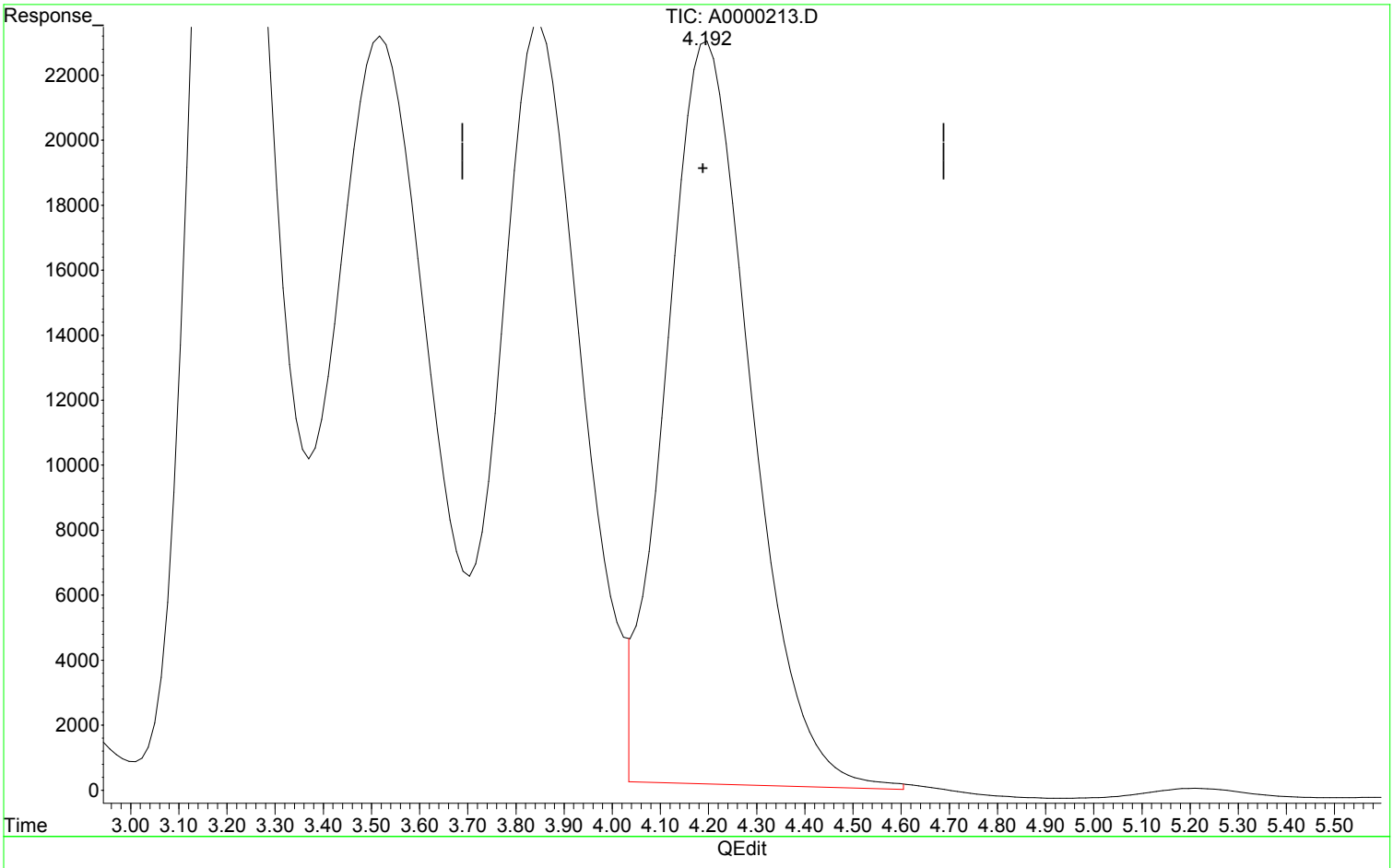
R.T.: 18.426 min
Delta R.T.: 0.039 min
Response: 3247222
Conc: 43.58 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000213.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 03:23:44
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:28 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.192min 53.975 ppm m

response 2816860

Manual Integration:

After

Poor integration.

09/05/24

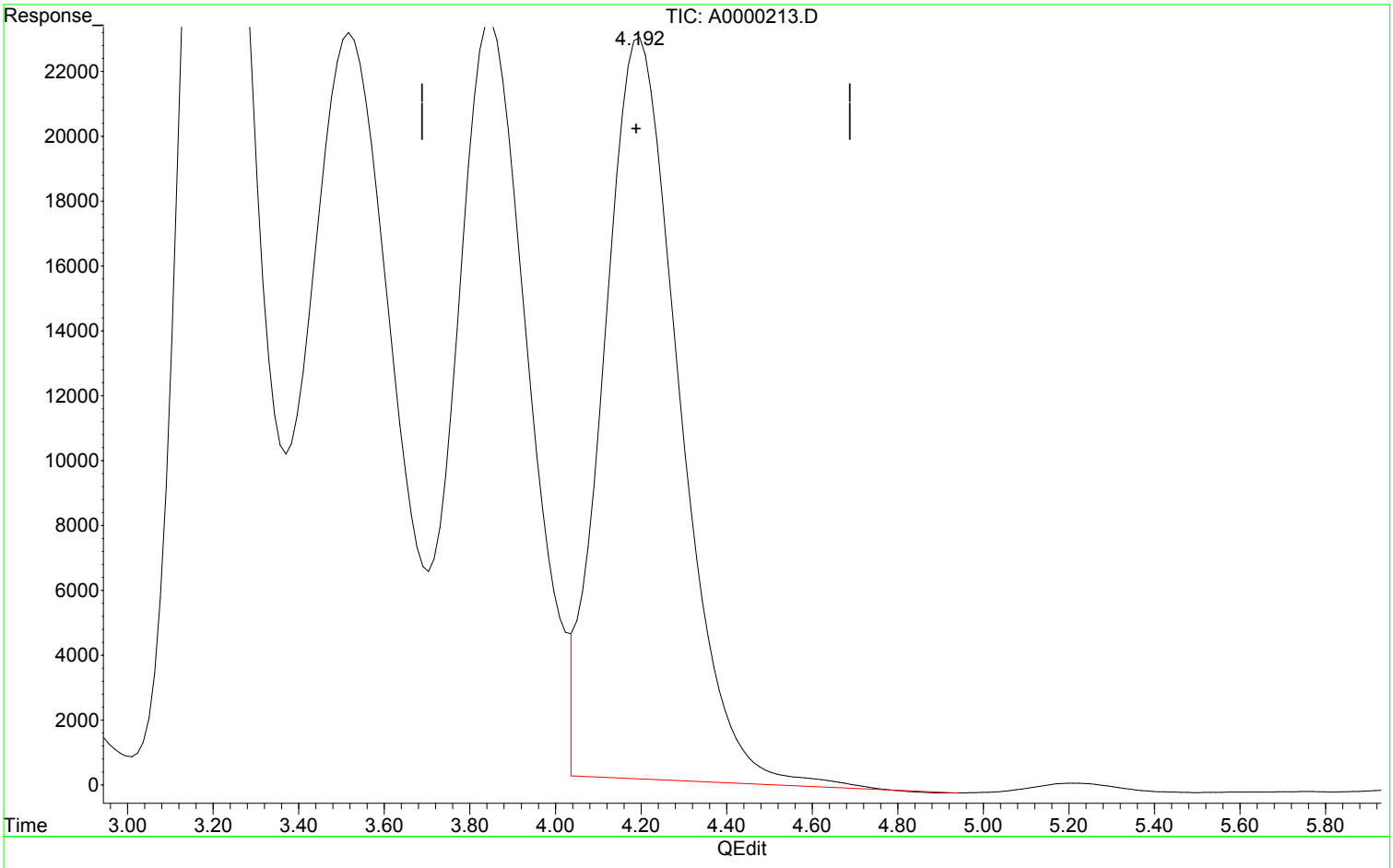
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000213.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 03:23:44
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:28 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.198min 54.567 ppm

response 2847750

Manual Integration:

Before

09/05/24

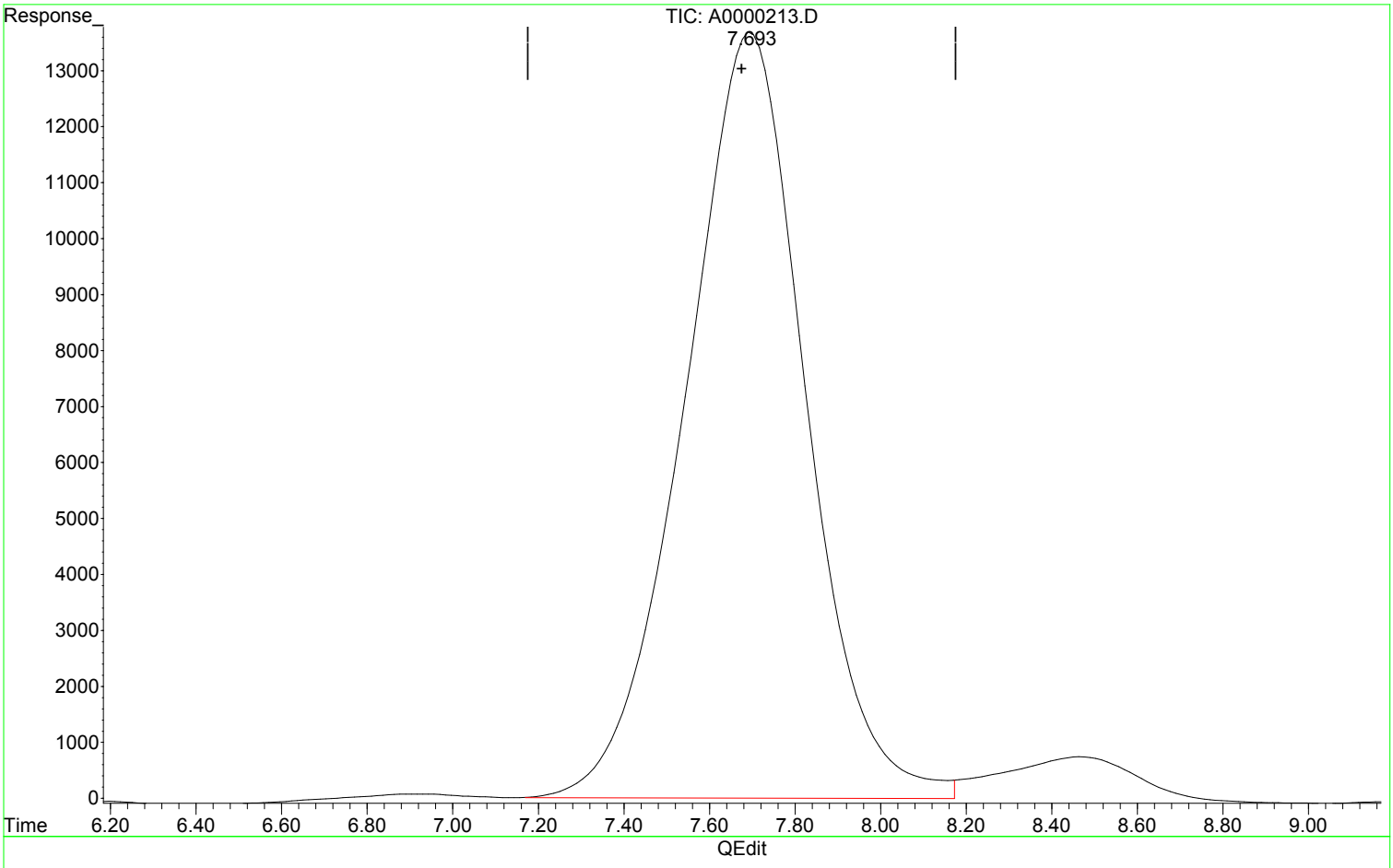
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000213.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 03:23:44
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:28 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.693min 50.021 ppm m

response 2667382

Manual Integration:

After

Poor integration.

09/05/24

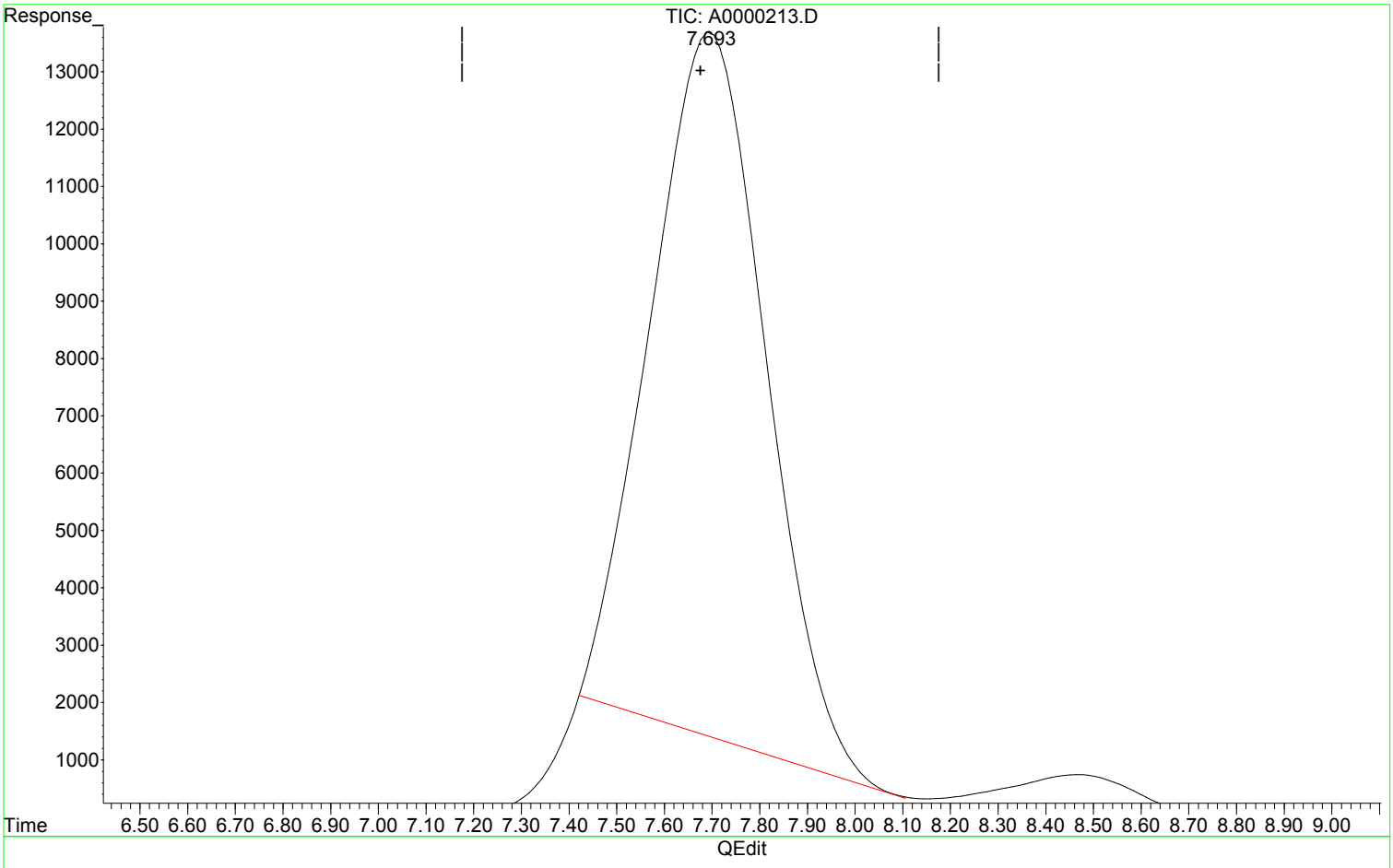
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000213.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 03:23:44
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:28 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.693min 38.819 ppm m

response 2070051

Manual Integration:

Before

09/05/24

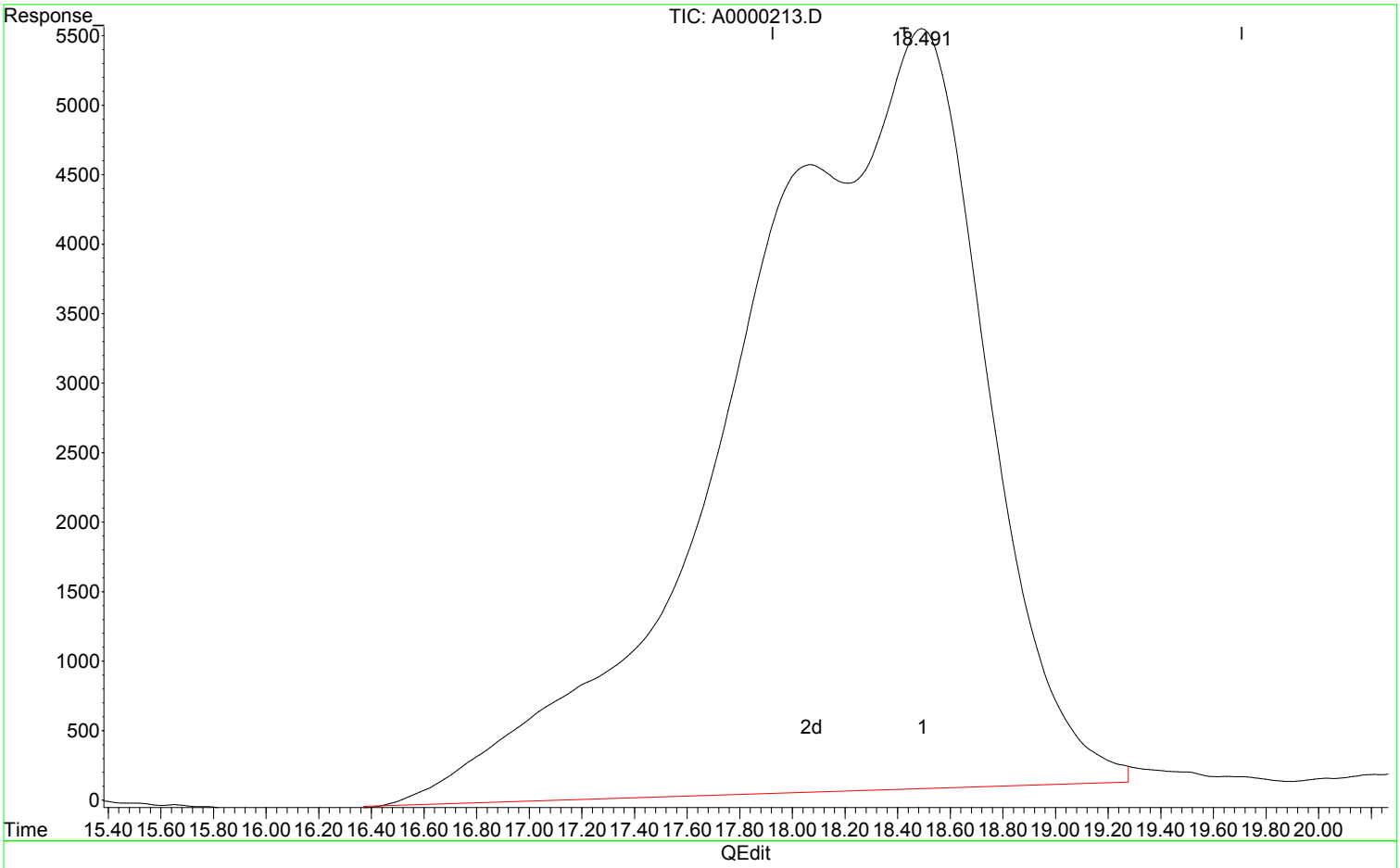
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000213.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 03:23:44
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:28 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.491min 47.466 ppm m

response 3536678

Manual Integration:

After

Poor integration.

09/05/24

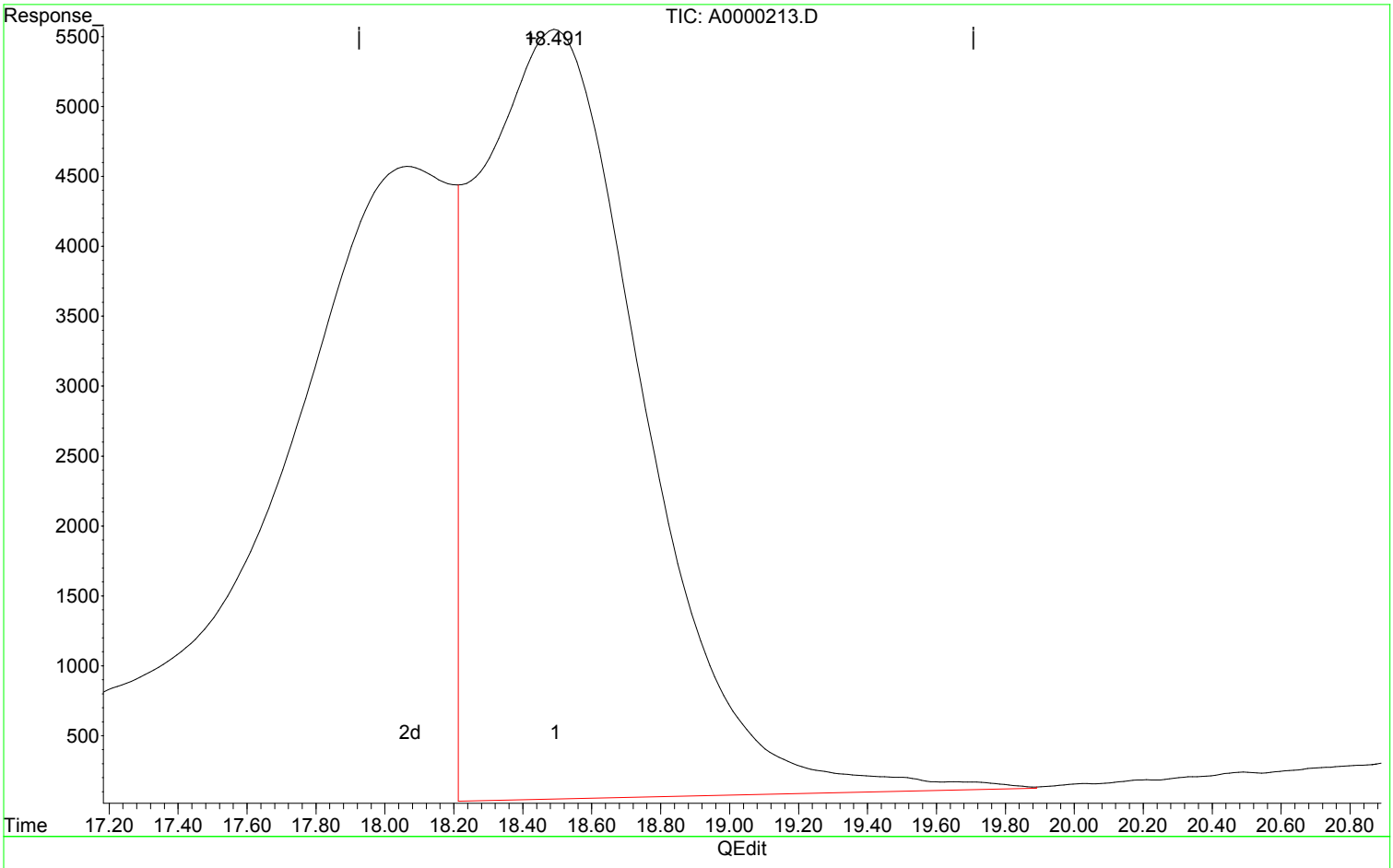
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000213.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 03:23:44
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:28 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.496min 24.701 ppm

response 1840448

Manual Integration:

Before

09/05/24

(+) = Expected Retention Time

1st AF 09/09/24
2nd AM 09/09/24

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000213.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 03:23:44
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:28 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 t	Formic acid	50.000	52.514	-5.0	102	0.00
2 T	Pyruvic acid	5.000	5.396	-7.9	115	0.00
3 T	Lactic Acid	50.000	53.014	-6.0	112	0.00
4 T	Acetic Acid	50.000	53.975	-8.0	105	0.00
5 T	Propionic Acid	50.000	50.021	-0.0	97	0.02
6 T	Butyric Acid	50.000	47.466	5.1	94	0.07

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000213.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 03:23:44
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:28 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.204	4557585	52.514	ppm	
2) T	Pyruvic acid	3.521	3011637	5.396	ppm	
3) T	Lactic Acid	3.851	2716508	53.014	ppm	
4) T	Acetic Acid	4.192	2816860	53.975	ppm	m
5) T	Propionic Acid	7.693	2667382	50.021	ppm	m
6) T	Butyric Acid	18.491	3536678	47.466	ppm	m

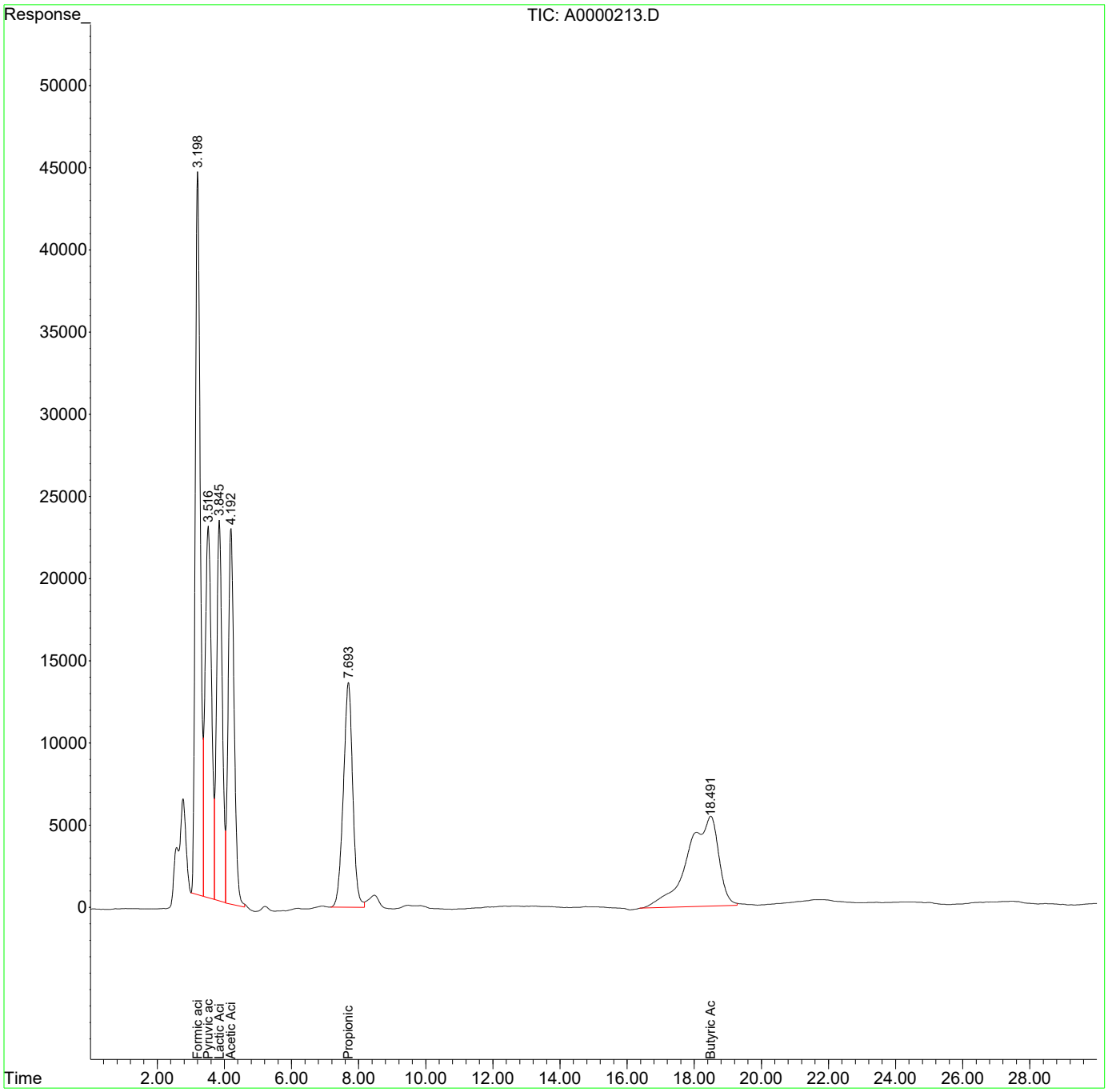
(f)=RT Delta > 1/2 Window (m)=manual int.

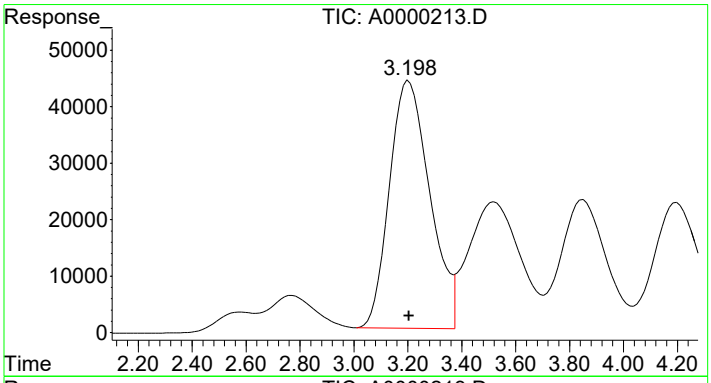
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000213.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 03:23:44
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:28 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

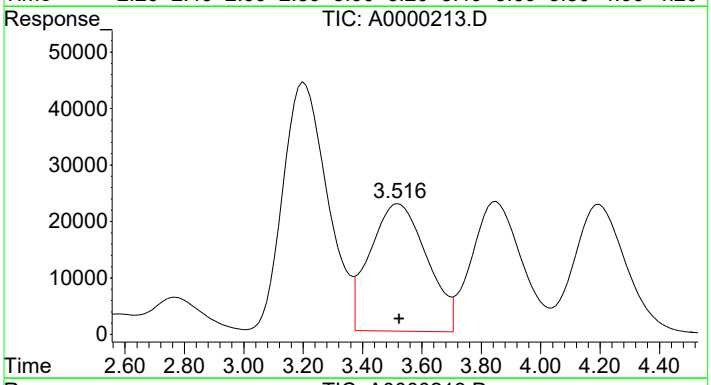
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





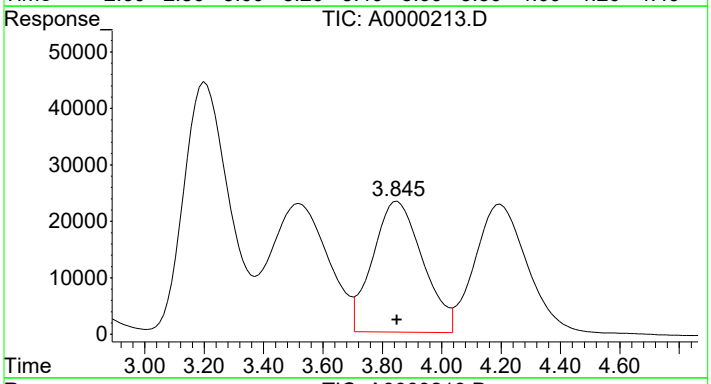
#1 Formic acid

R.T.: 3.204 min
Delta R.T.: 0.000 min
Response: 4557585
Conc: 52.51 ppm



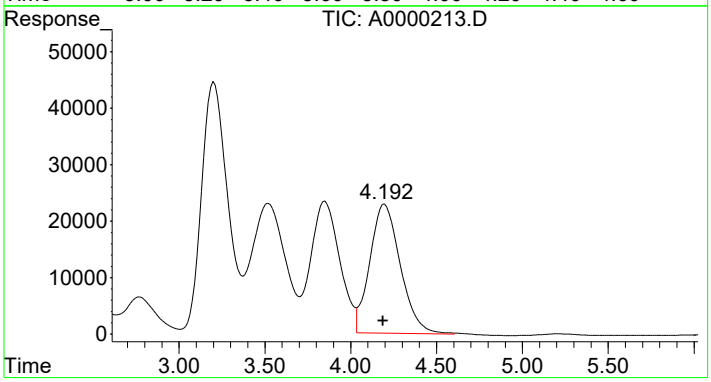
#2 Pyruvic acid

R.T.: 3.521 min
Delta R.T.: -0.002 min
Response: 3011637
Conc: 5.40 ppm



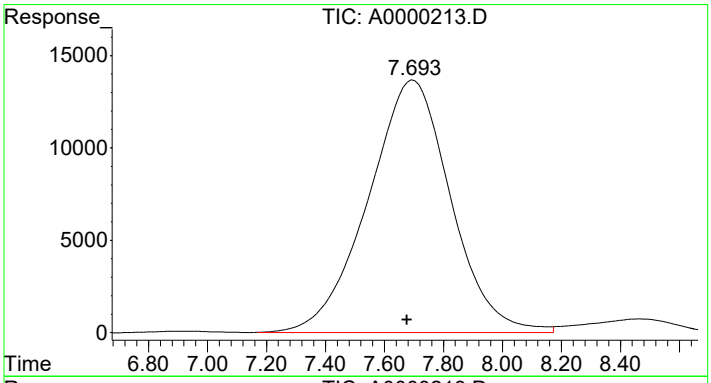
#3 Lactic Acid

R.T.: 3.851 min
Delta R.T.: 0.000 min
Response: 2716508
Conc: 53.01 ppm



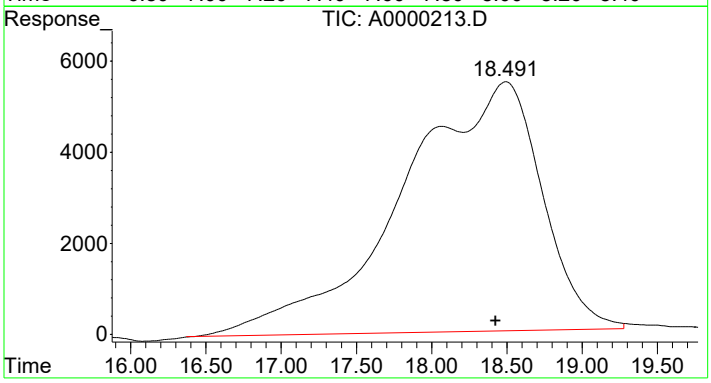
#4 Acetic Acid

R.T.: 4.192 min
Delta R.T.: 0.003 min
Response: 2816860
Conc: 53.97 ppm m



#5 Propionic Acid

R.T.: 7.693 min
Delta R.T.: 0.017 min
Response: 2667382
Conc: 50.02 ppm m



#6 Butyric Acid

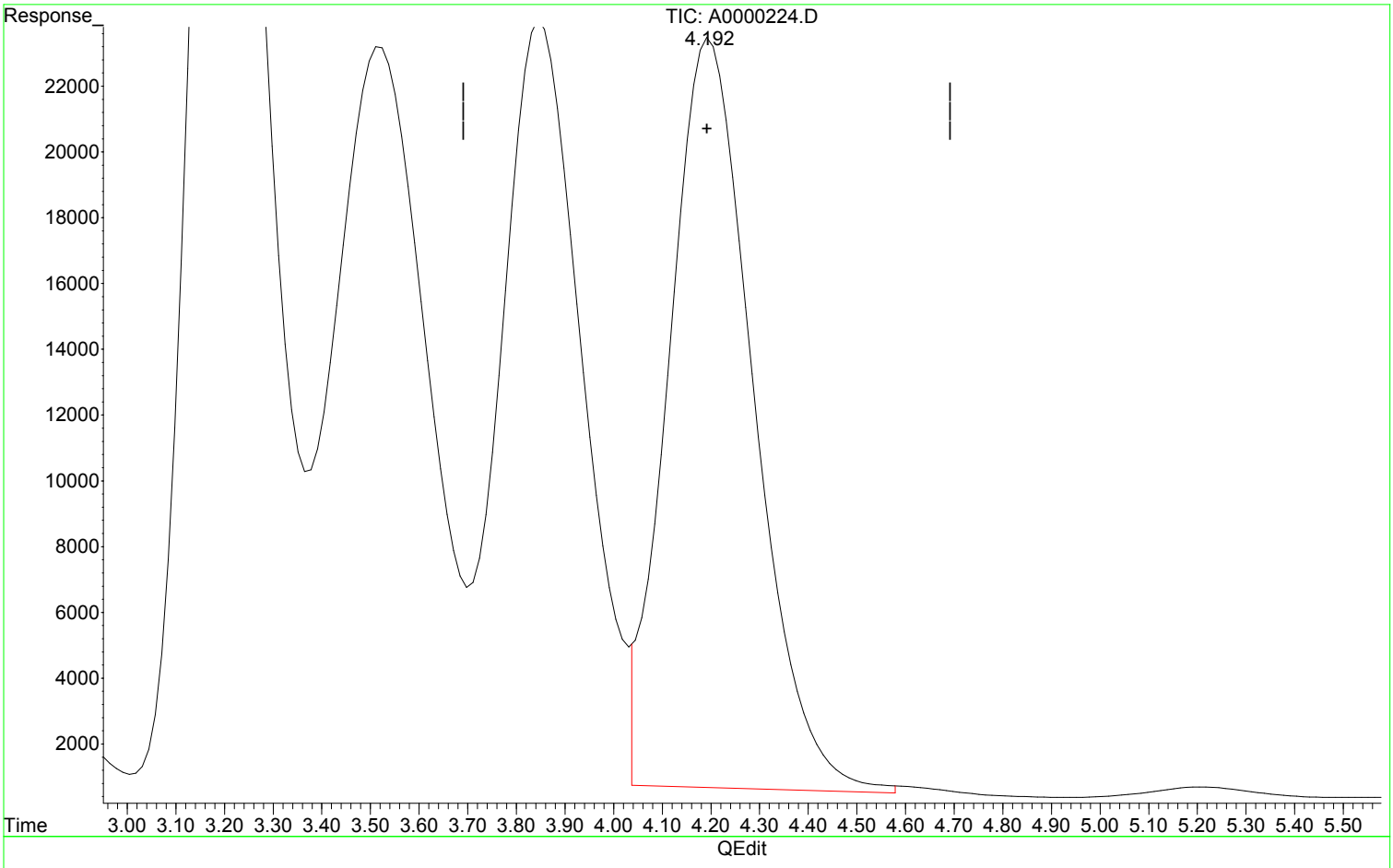
R.T.: 18.491 min
Delta R.T.: 0.066 min
Response: 3536678
Conc: 47.47 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000224.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 09:13:19
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:18 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.192min 53.303 ppm m

response 2781816

Manual Integration:

After

Poor integration.

09/05/24

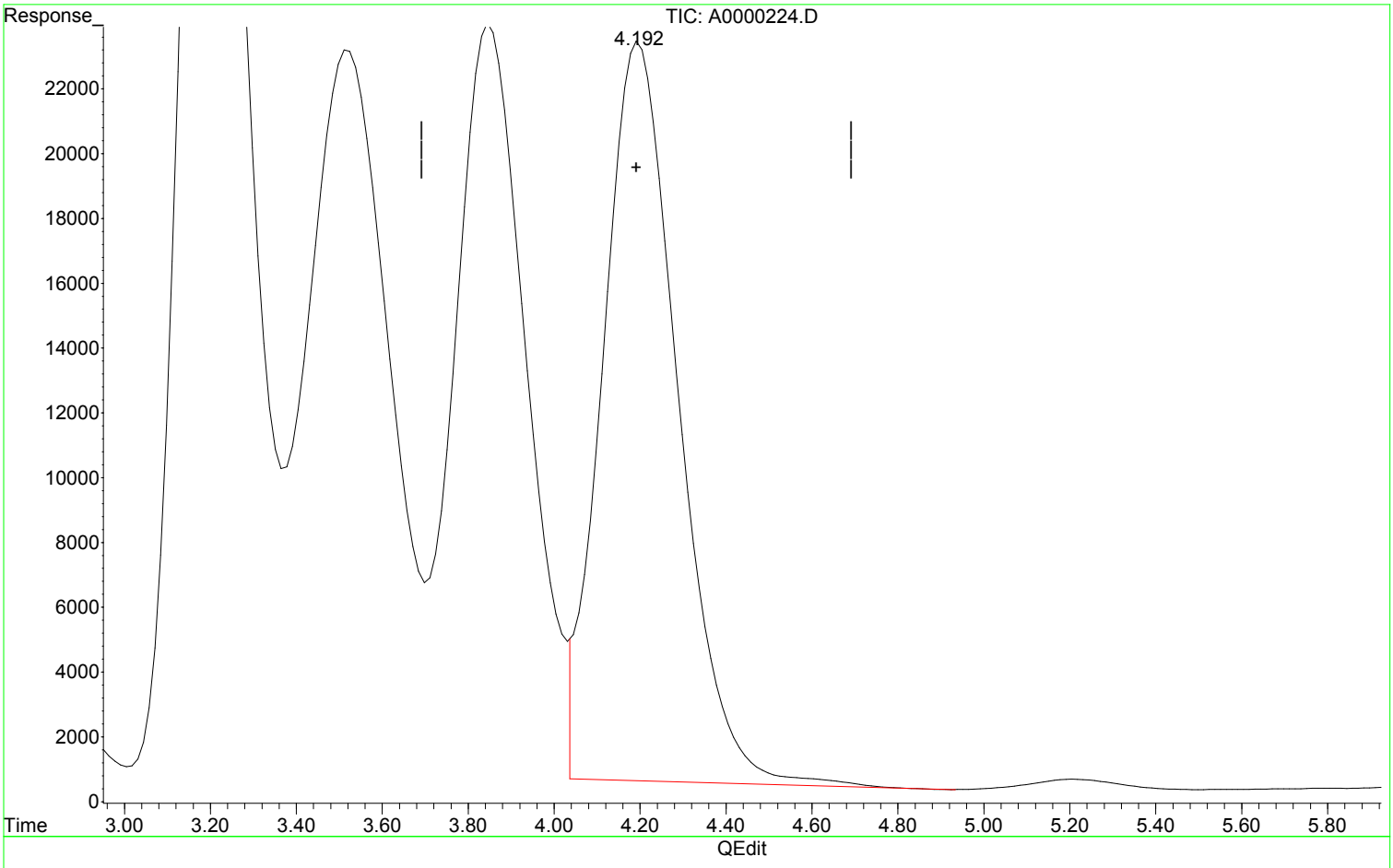
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000224.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 09:13:19
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:18 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.198min 54.008 ppm

response 2818608

Manual Integration:

Before

09/05/24

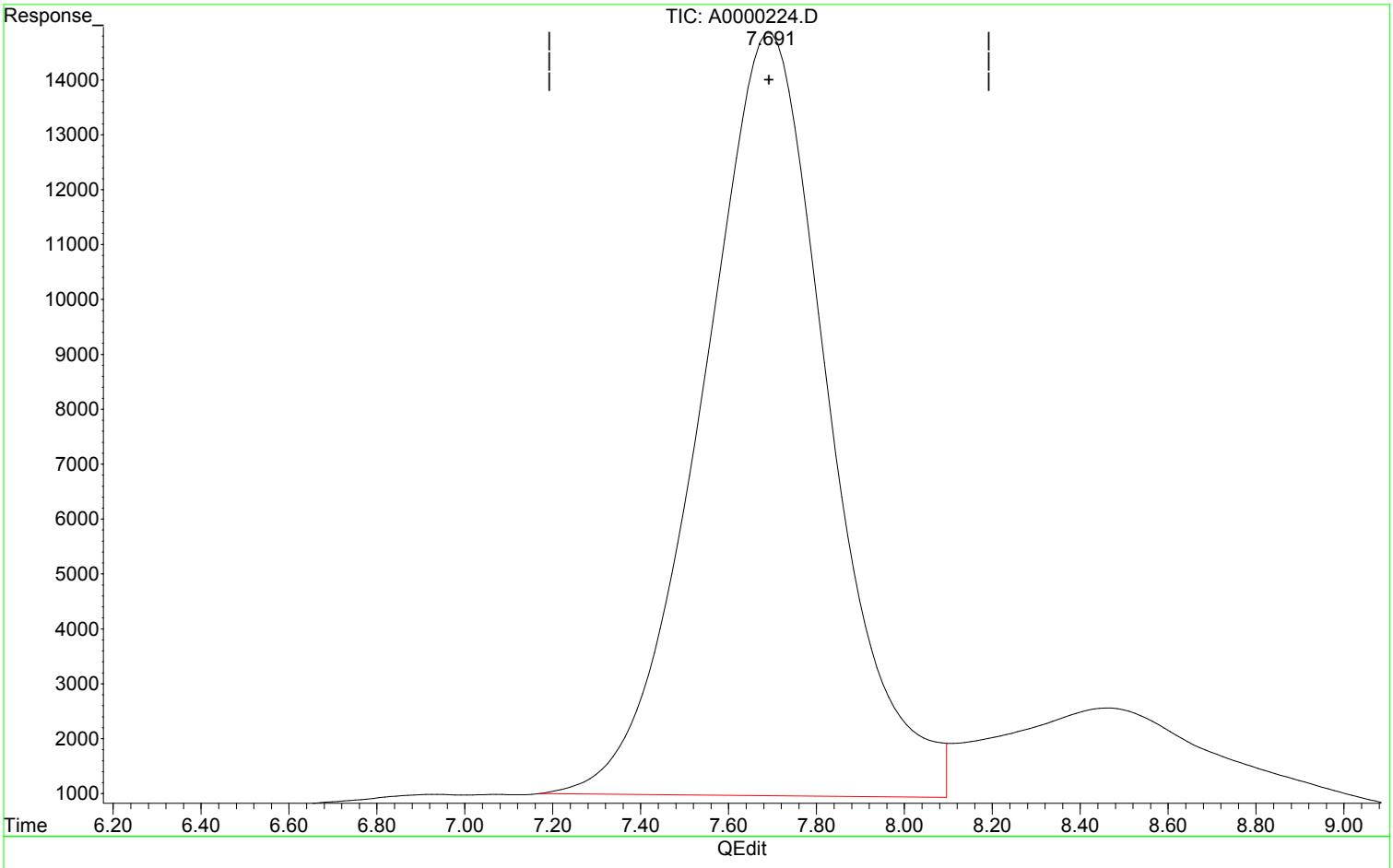
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000224.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 09:13:19
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:18 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.691min 52.033 ppm m

response 2774670

Manual Integration:

After

Poor integration.

09/05/24

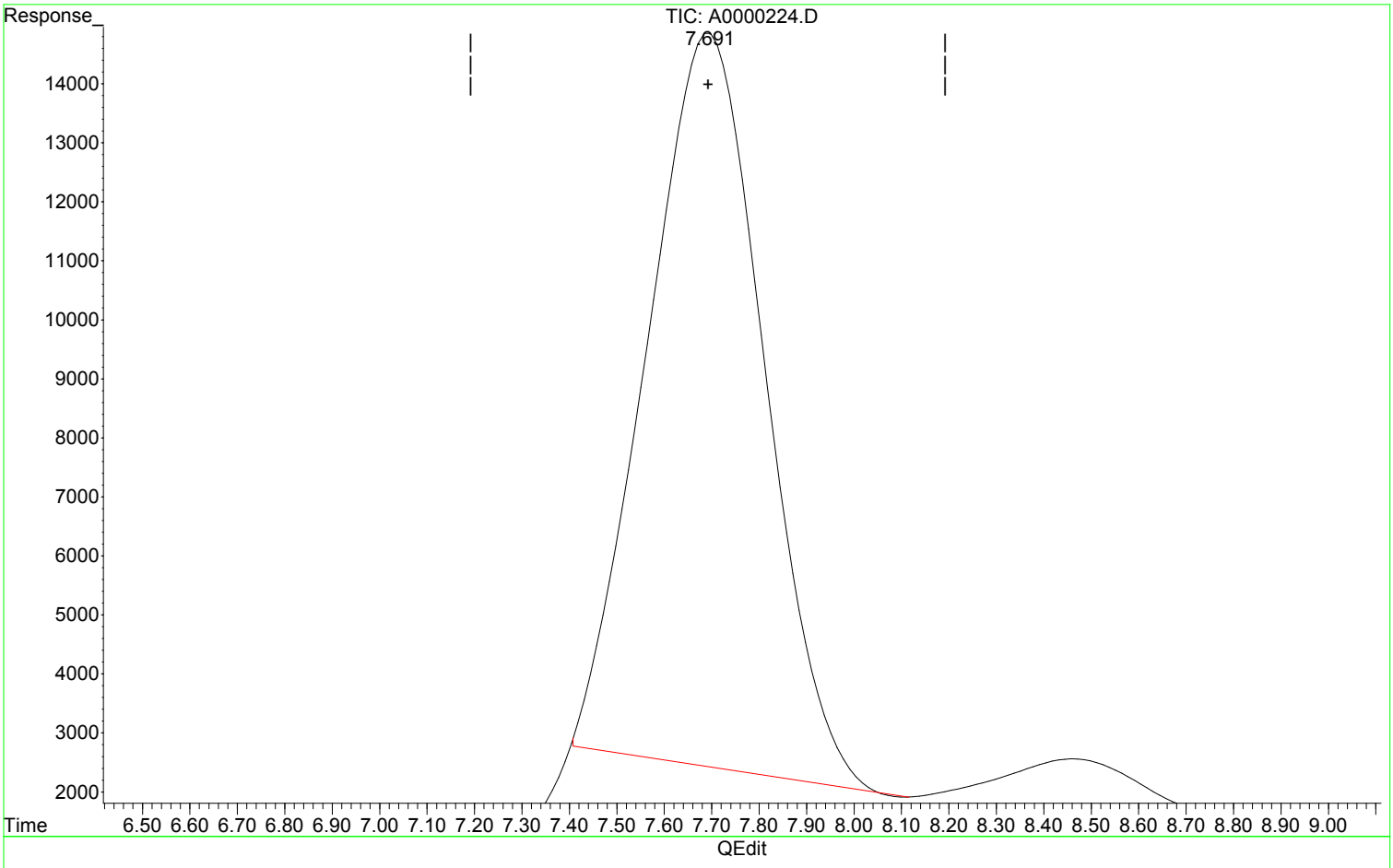
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000224.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 09:13:19
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:18 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.696min 39.972 ppm

response 2131551

Manual Integration:

Before

09/05/24

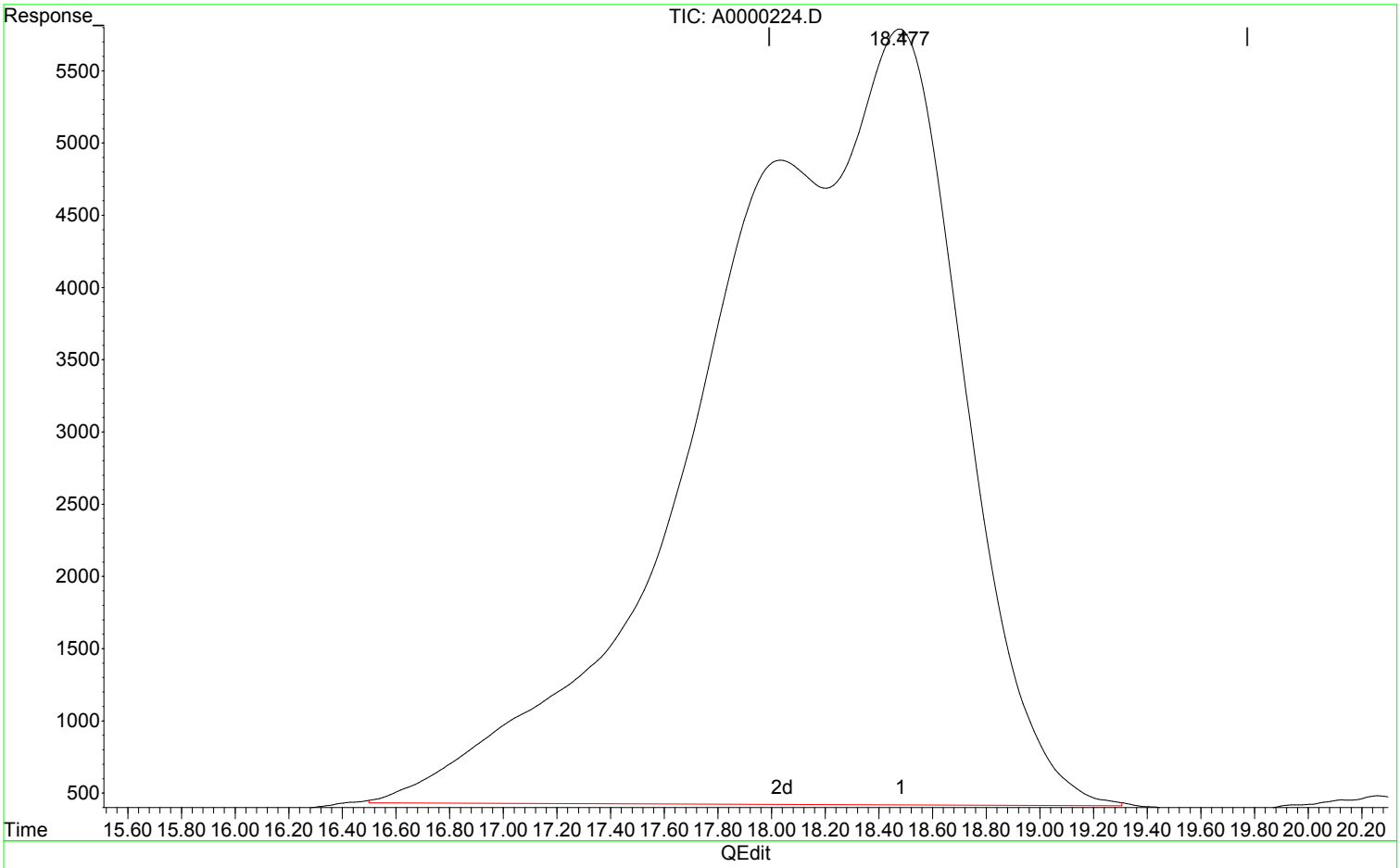
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000224.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 09:13:19
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:18 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.477min 46.190 ppm m

response 3441589

Manual Integration:

After

Poor integration.

09/05/24

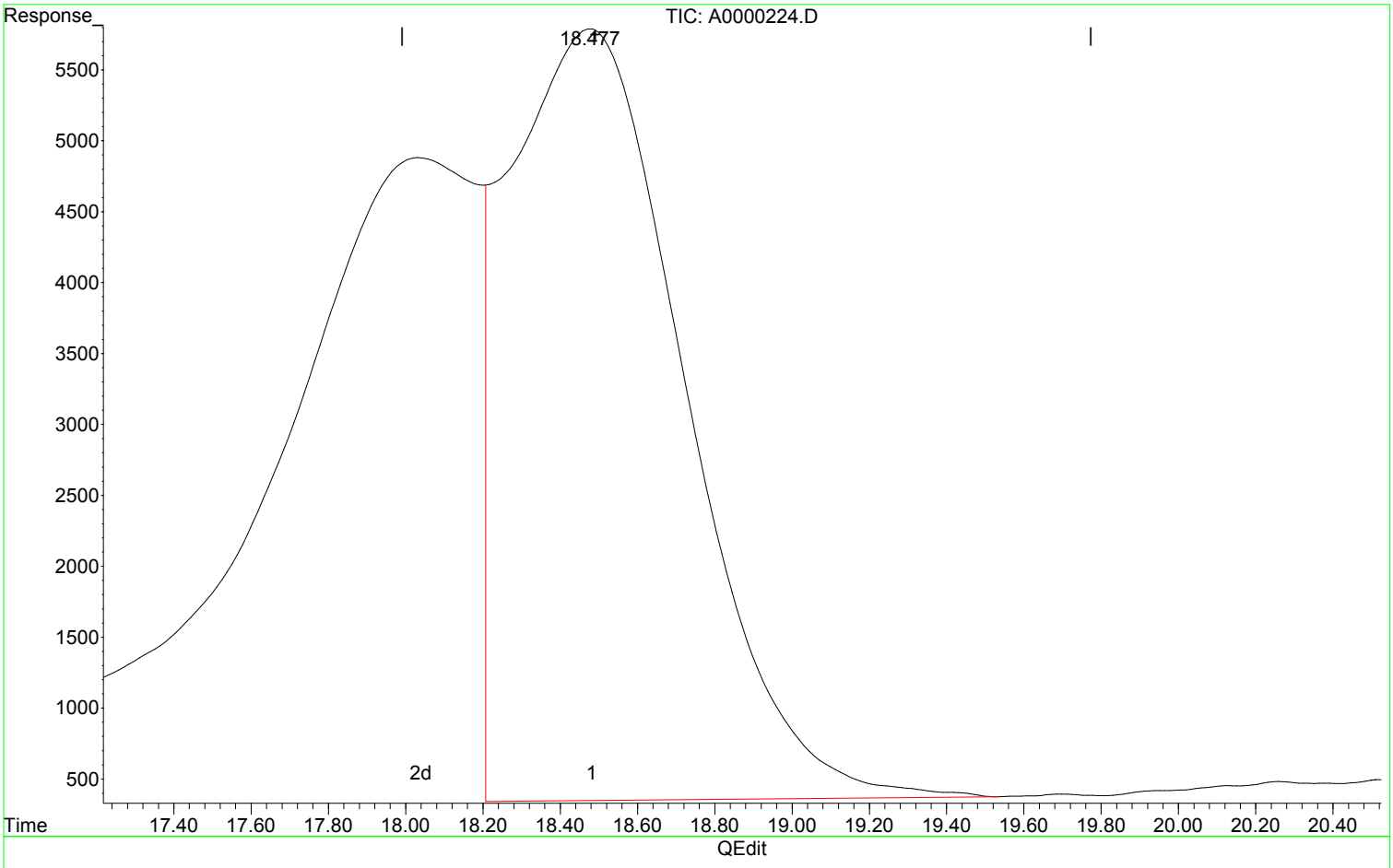
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000224.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 09:13:19
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:18 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.482min 23.396 ppm

response 1743245

Manual Integration:

Before

09/05/24

(+) = Expected Retention Time

1st AF 09/09/24
2nd AM 09/09/24

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000224.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 09:13:19
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 12:08:58 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 12:08:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 t	Formic acid	50.000	52.328	-4.7	101	0.00
2 T	Pyruvic acid	5.000	5.301	-6.0	112	0.00
3 T	Lactic Acid	50.000	52.846	-5.7	112	0.00
4 T	Acetic Acid	50.000	54.015	-8.0	105	0.00
5 T	Propionic Acid	50.000	47.383	5.2	91	0.00
6 T	Butyric Acid	50.000	47.838	4.3	94	-0.01

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000224.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 09:13:19
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:18 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.204	4540876	52.321	ppm	
2) T	Pyruvic acid	3.522	2957416	5.301	ppm	
3) T	Lactic Acid	3.851	2707461	52.840	ppm	
4) T	Acetic Acid	4.192	2781816	53.303	ppm	m
5) T	Propionic Acid	7.691	2774670	52.033	ppm	m
6) T	Butyric Acid	18.477	3441589	46.190	ppm	m

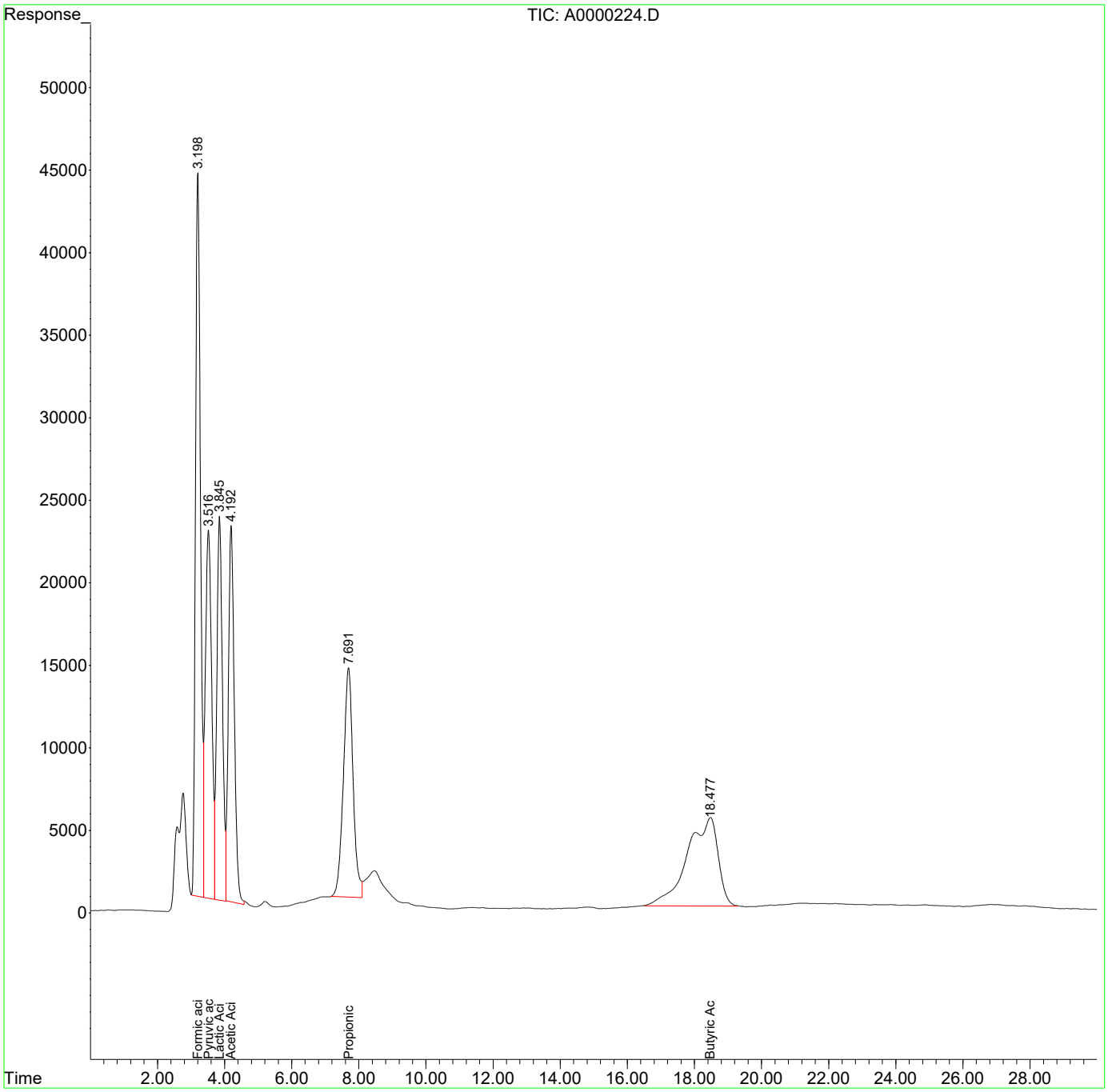
(f)=RT Delta > 1/2 Window (m)=manual int.

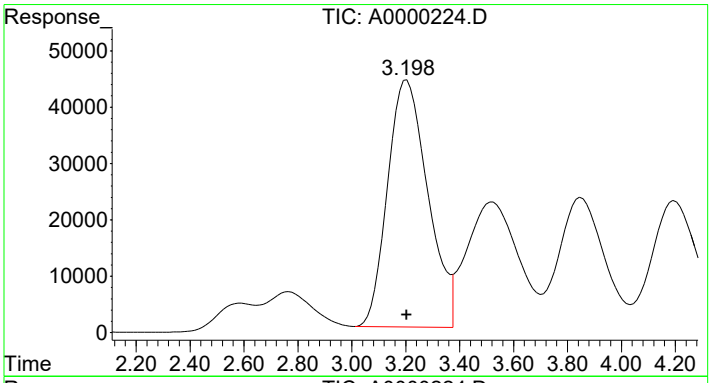
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000224.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 09:13:19
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:18 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

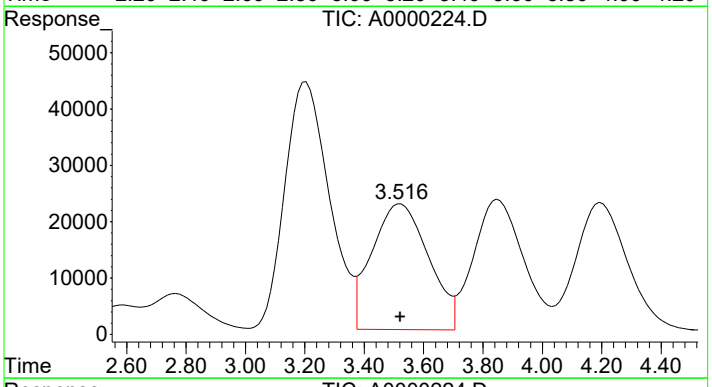
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





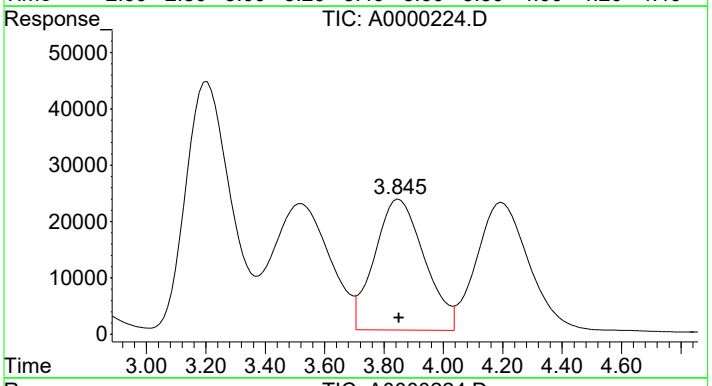
#1 Formic acid

R.T.: 3.204 min
Delta R.T.: 0.000 min
Response: 4540876
Conc: 52.32 ppm



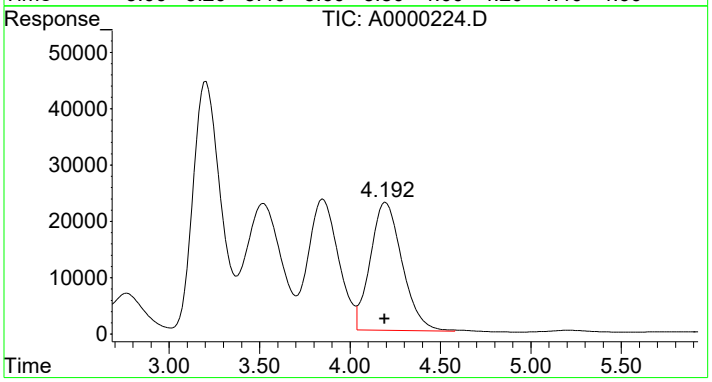
#2 Pyruvic acid

R.T.: 3.522 min
Delta R.T.: 0.000 min
Response: 2957416
Conc: 5.30 ppm



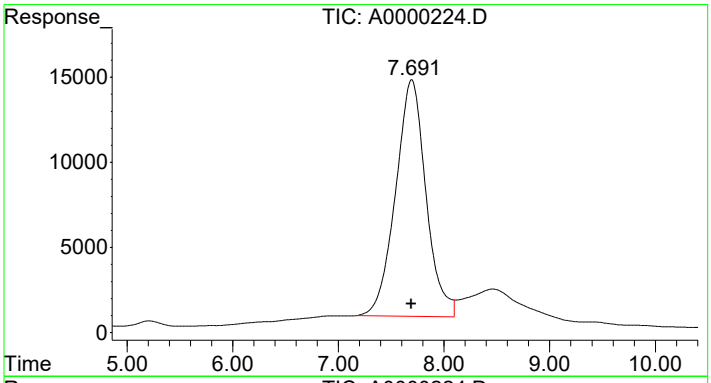
#3 Lactic Acid

R.T.: 3.851 min
Delta R.T.: 0.000 min
Response: 2707461
Conc: 52.84 ppm



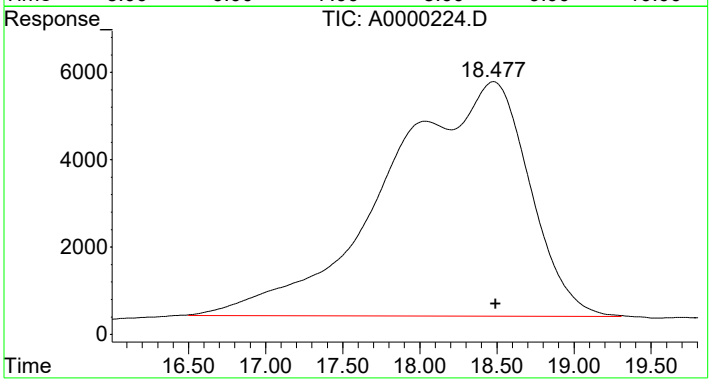
#4 Acetic Acid

R.T.: 4.192 min
Delta R.T.: 0.000 min
Response: 2781816
Conc: 53.30 ppm m



#5 Propionic Acid

R.T.: 7.691 min
Delta R.T.: -0.002 min
Response: 2774670
Conc: 52.03 ppm m



#6 Butyric Acid

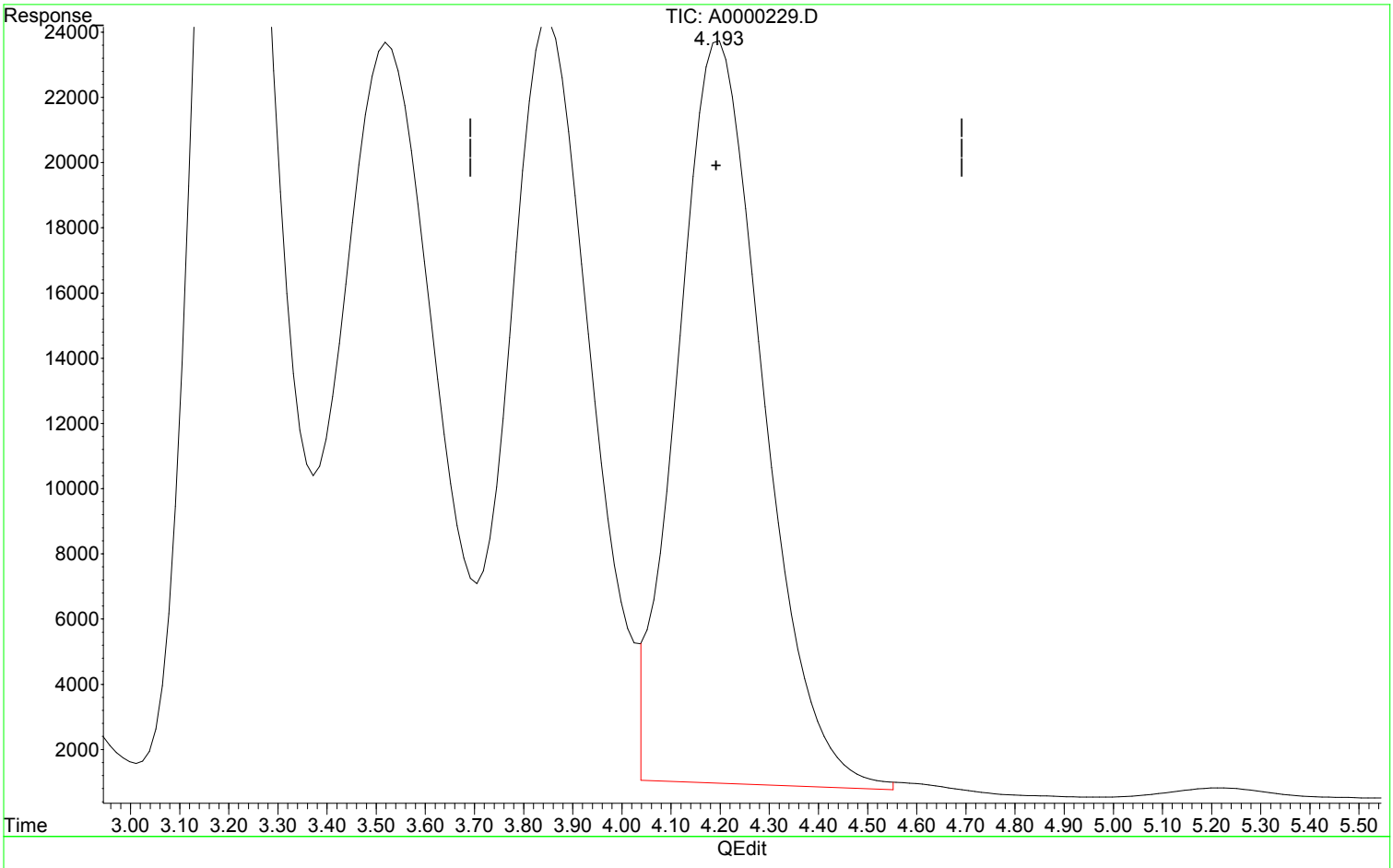
R.T.: 18.477 min
Delta R.T.: -0.014 min
Response: 3441589
Conc: 46.19 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000229.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 11:52:15
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.193min 52.901 ppm m

response 2760803

Manual Integration:

After

Poor integration.

09/05/24

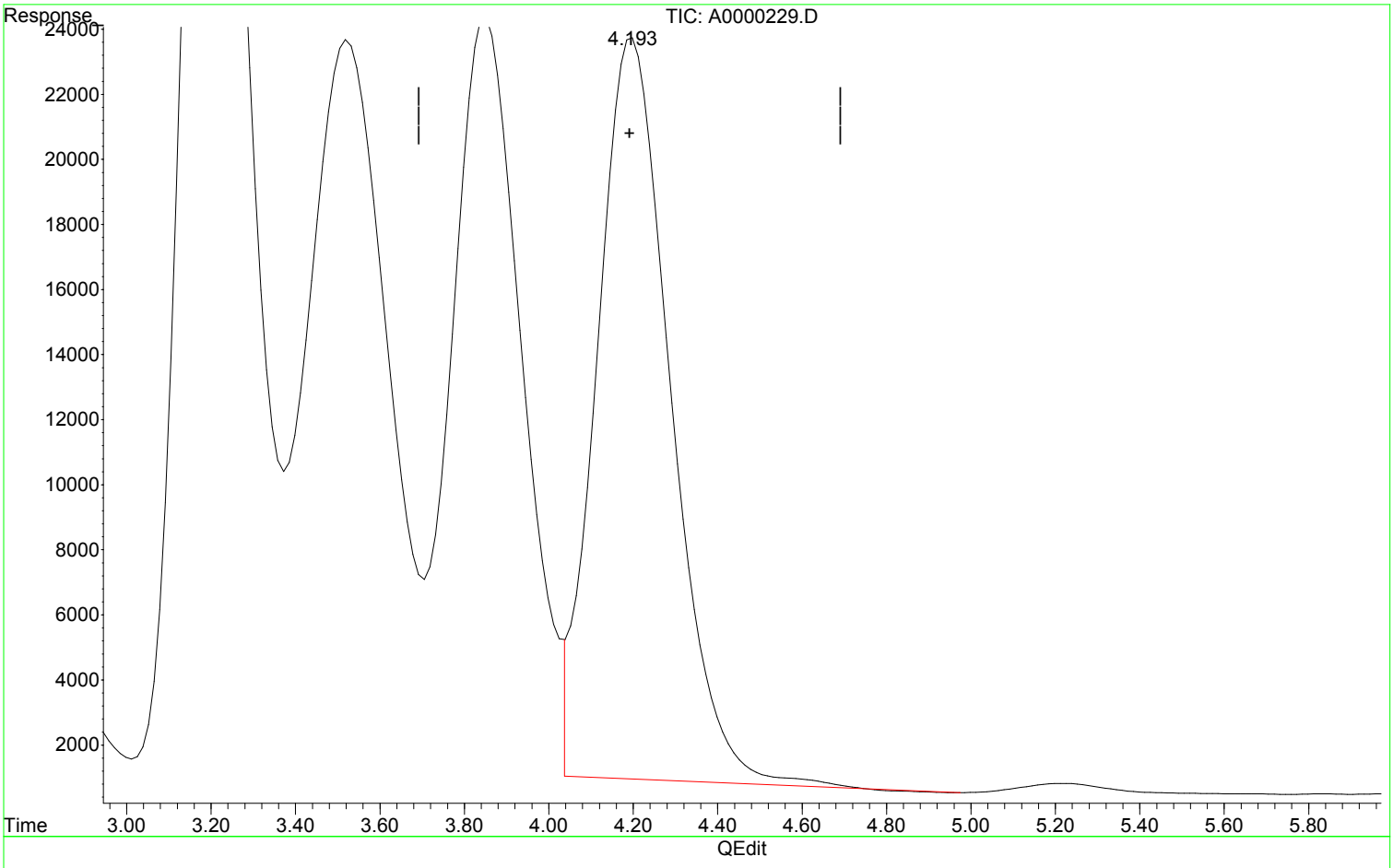
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000229.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 11:52:15
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.199min 53.611 ppm

response 2797853

Manual Integration:

Before

09/05/24

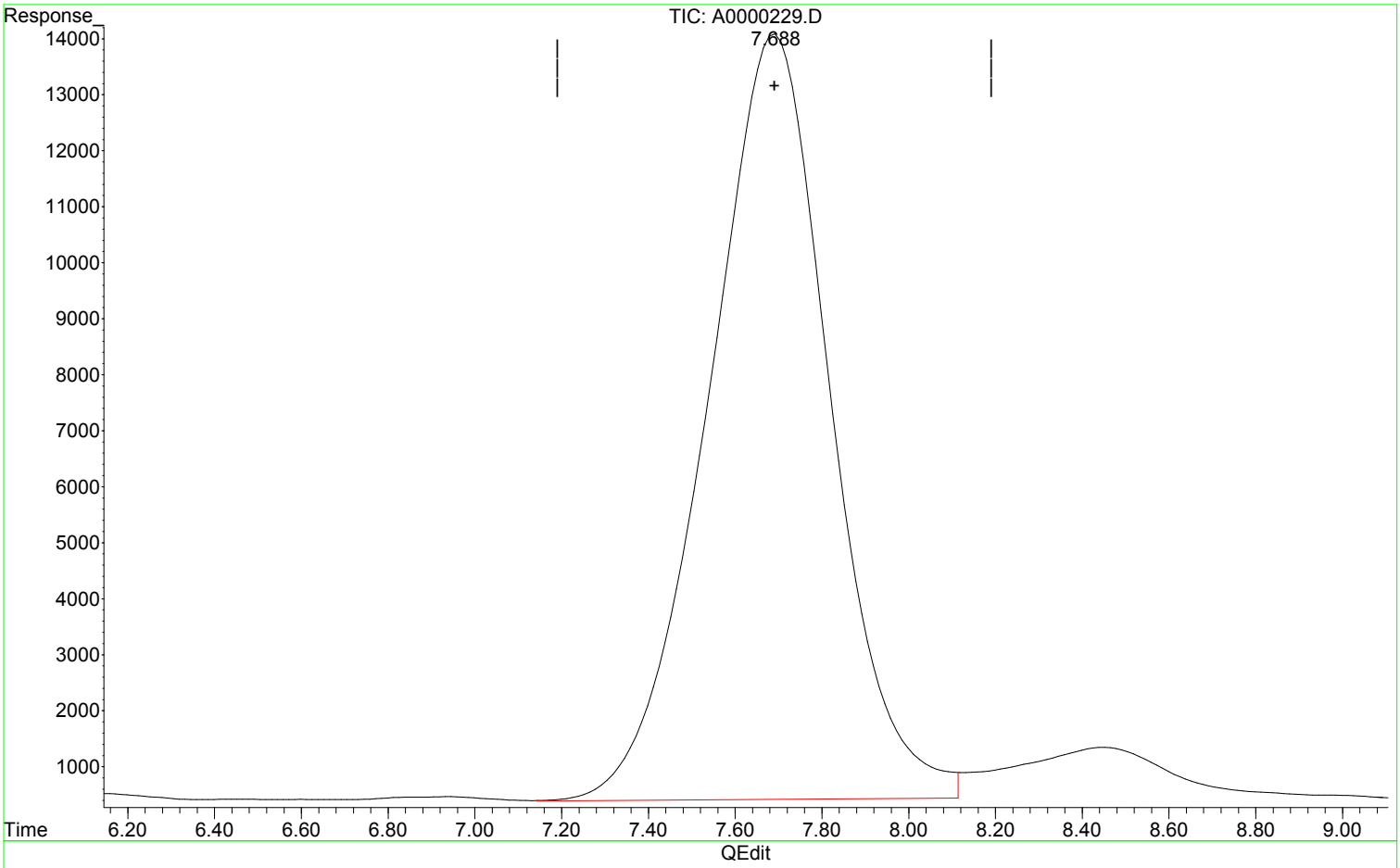
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000229.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 11:52:15
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.688min 49.861 ppm m

response 2658845

Manual Integration:

After

Poor integration.

09/05/24

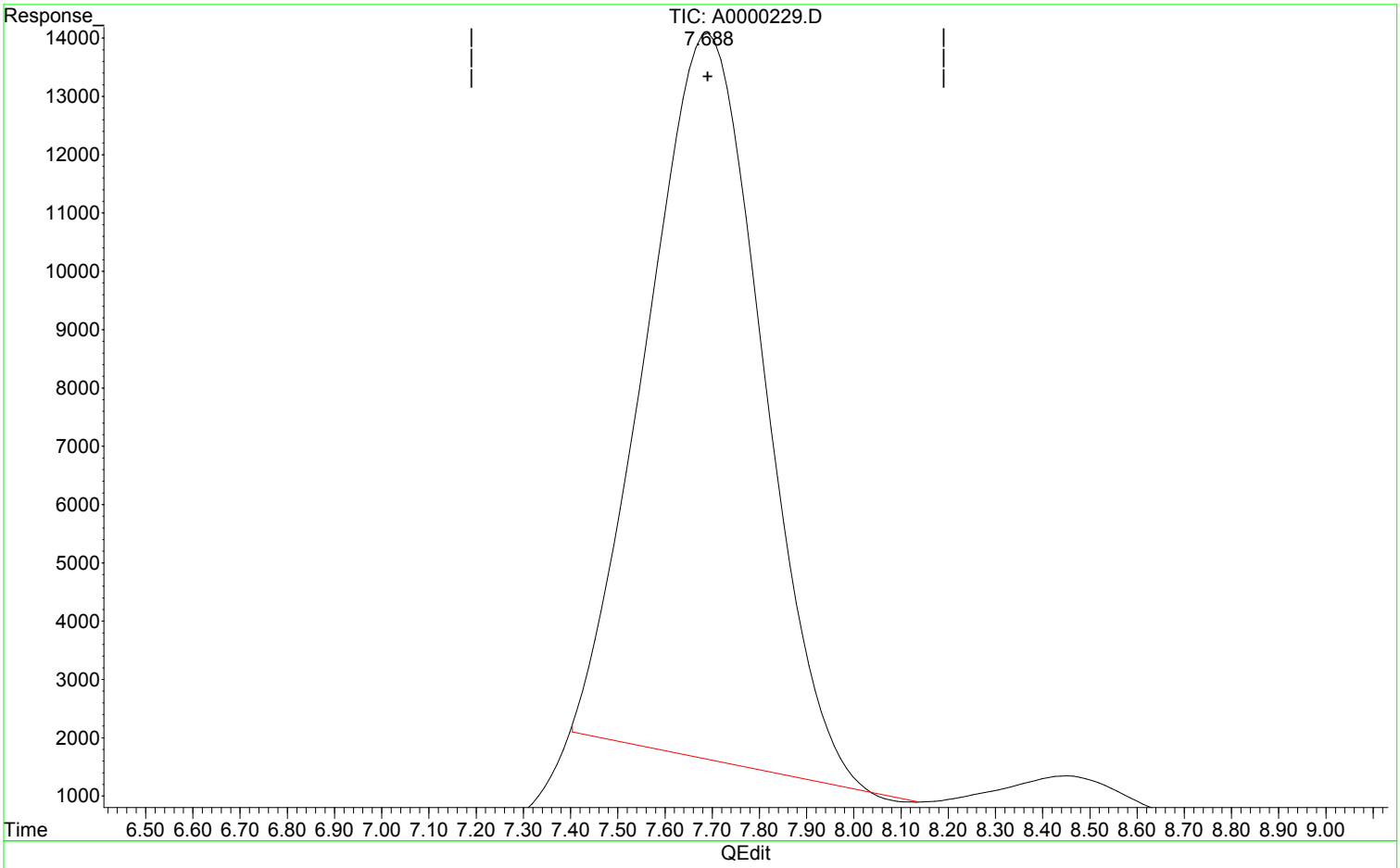
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000229.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 11:52:15
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.693min 39.930 ppm

response 2129309

Manual Integration:

Before

09/05/24

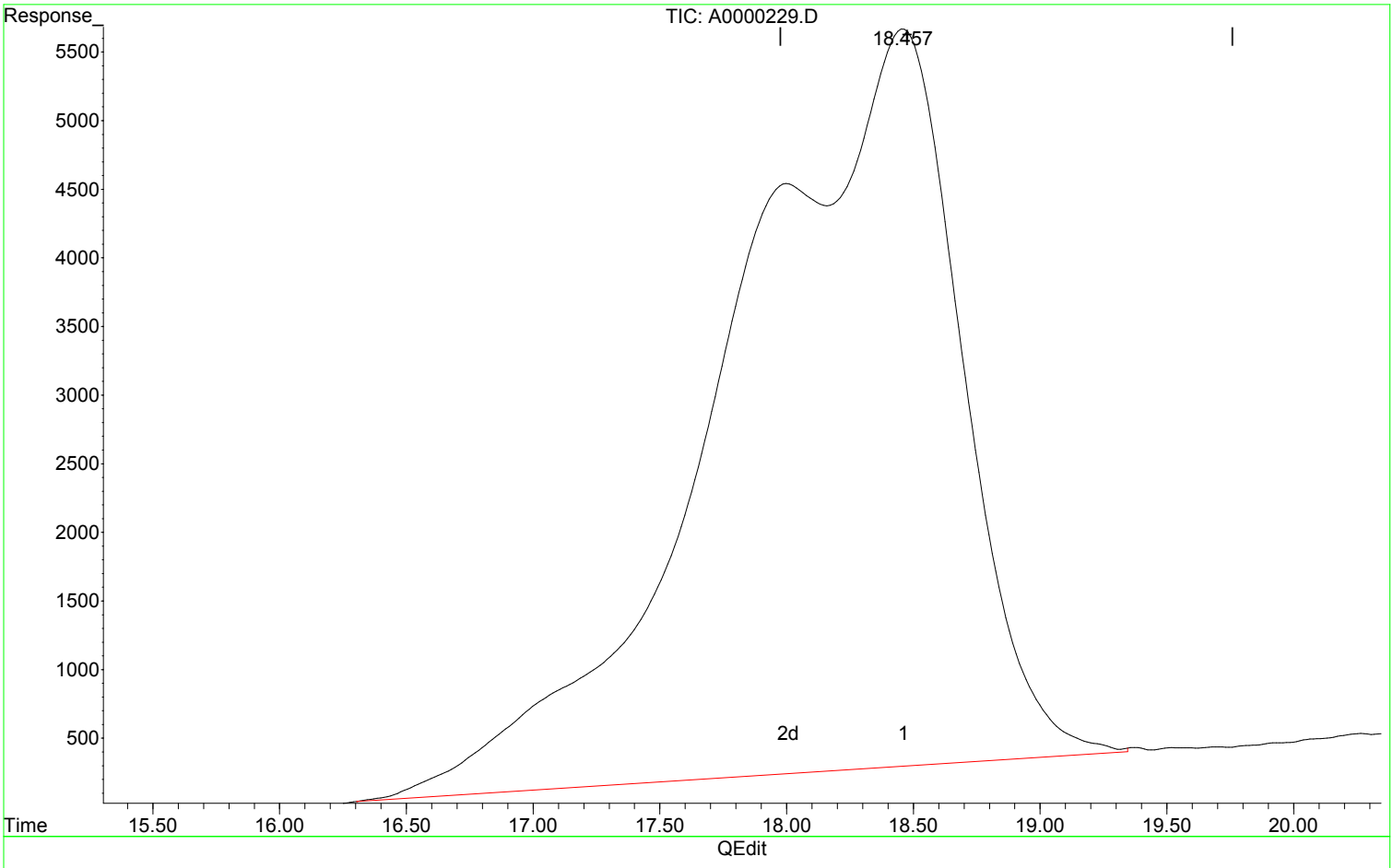
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000229.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 11:52:15
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.457min 45.815 ppm m

response 3413667

Manual Integration:

After

Poor integration.

09/05/24

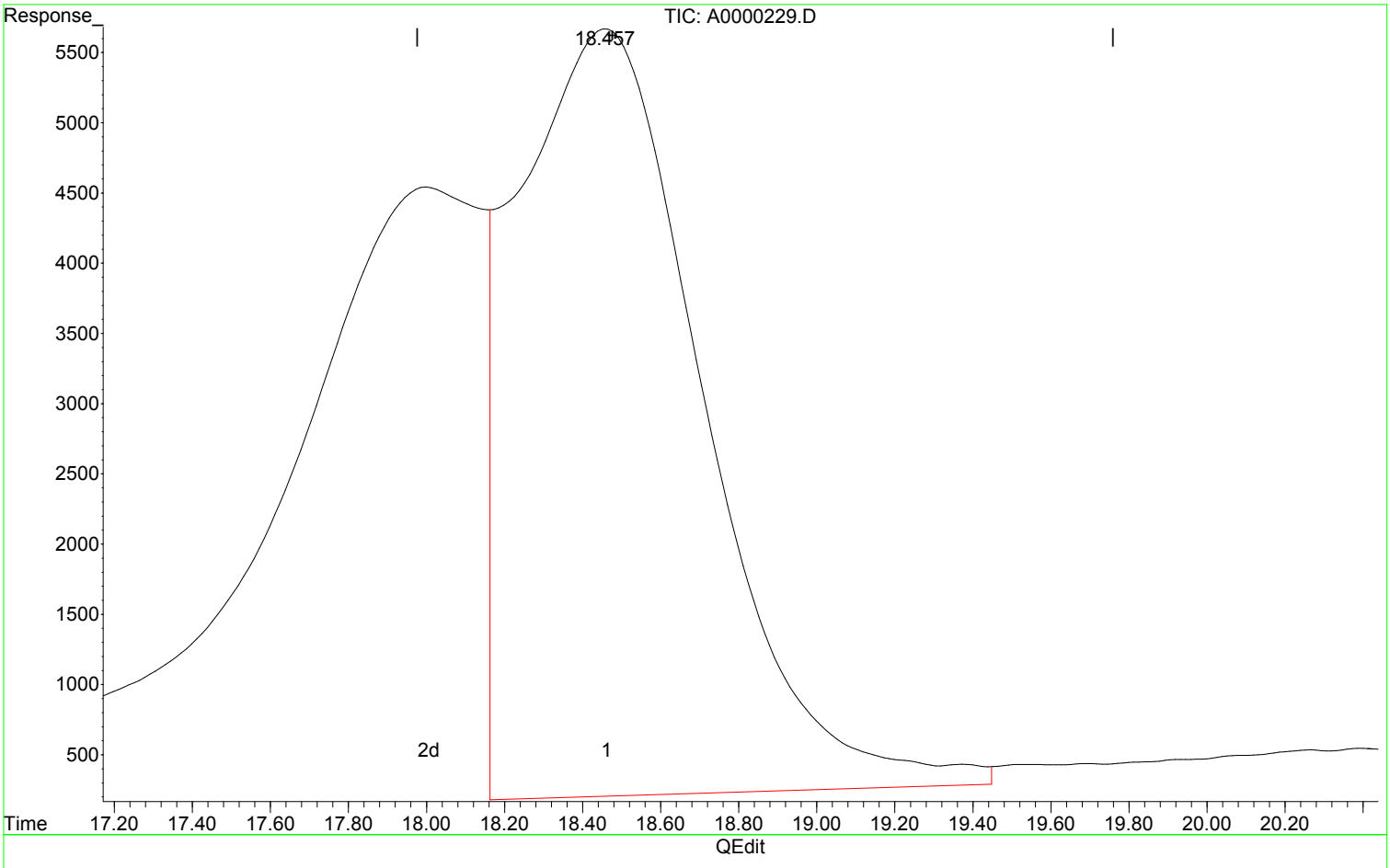
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000229.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 11:52:15
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.462min 24.551 ppm

response 1829293

Manual Integration:

Before

09/05/24

(+) = Expected Retention Time

1st AF 09/09/24
2nd AM 09/09/24

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000229.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 11:52:15
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 t	Formic acid	50.000	52.119	-4.2	101	0.00
2 T	Pyruvic acid	5.000	5.274	-5.5	112	0.00
3 T	Lactic Acid	50.000	52.597	-5.2	111	0.00
4 T	Acetic Acid	50.000	52.901	-5.8	103	0.00
5 T	Propionic Acid	50.000	49.861	0.3	96	0.00
6 T	Butyric Acid	50.000	45.815	8.4	90	-0.02

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000229.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 11:52:15
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.206	4523340	52.119	ppm	
2) T	Pyruvic acid	3.525	2942130	5.274	ppm	
3) T	Lactic Acid	3.852	2694905	52.597	ppm	
4) T	Acetic Acid	4.193	2760803	52.901	ppm	m
5) T	Propionic Acid	7.688	2658845	49.861	ppm	m
6) T	Butyric Acid	18.457	3413667	45.815	ppm	m

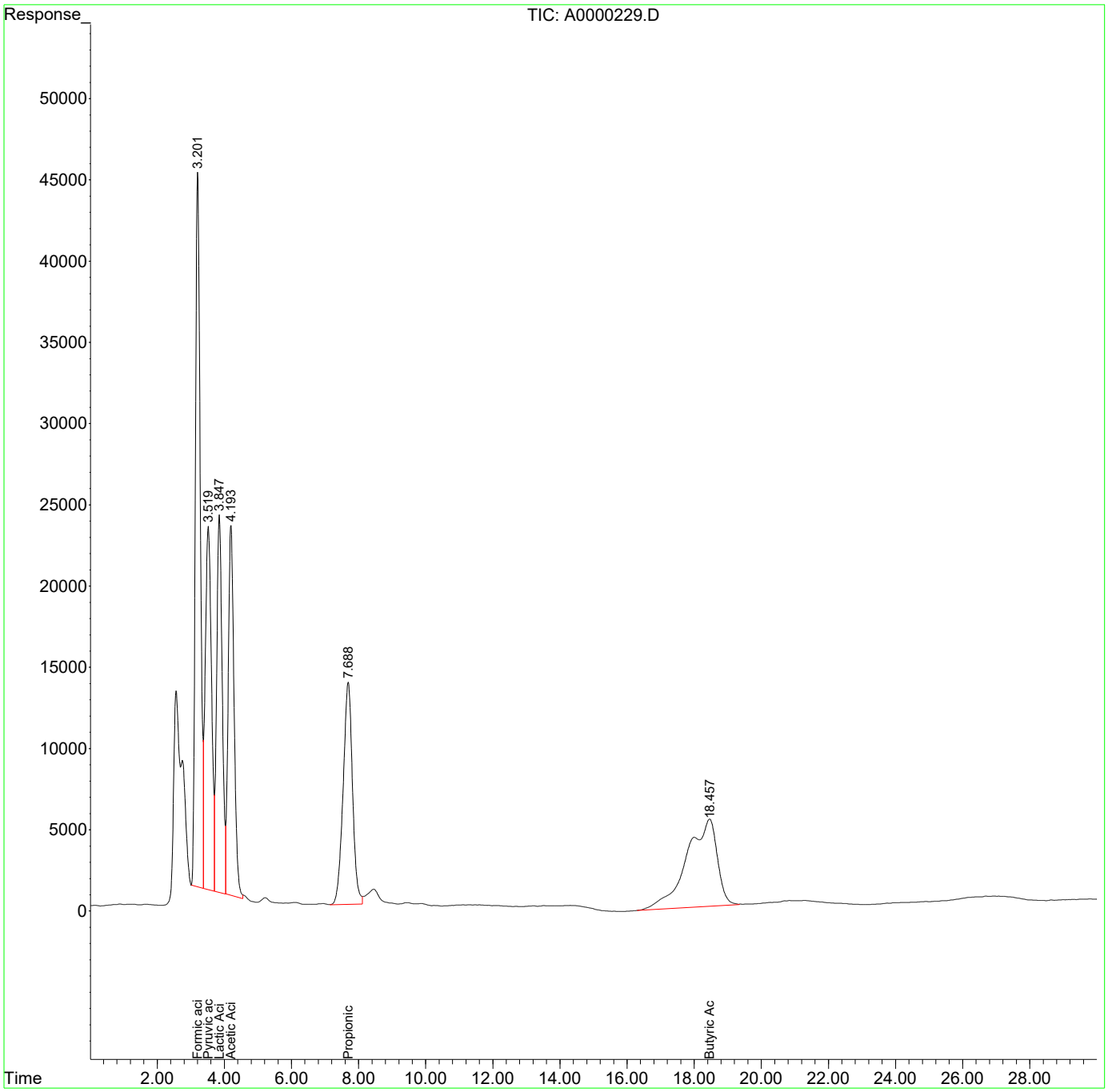
(f)=RT Delta > 1/2 Window (m)=manual int.

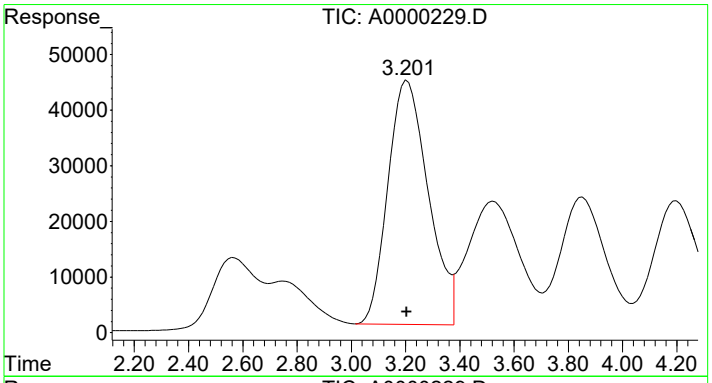
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000229.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 11:52:15
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

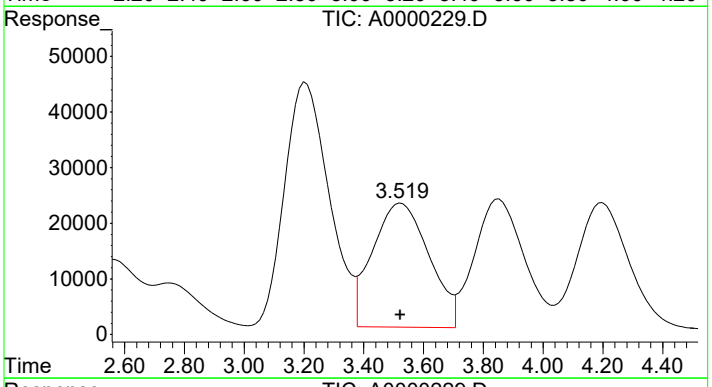
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





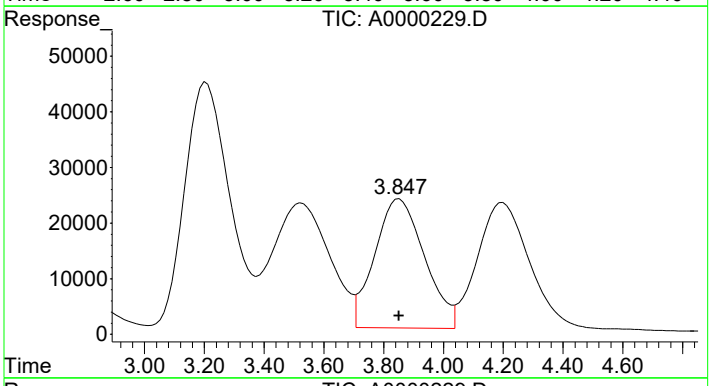
#1 Formic acid

R.T.: 3.206 min
Delta R.T.: 0.002 min
Response: 4523340
Conc: 52.12 ppm



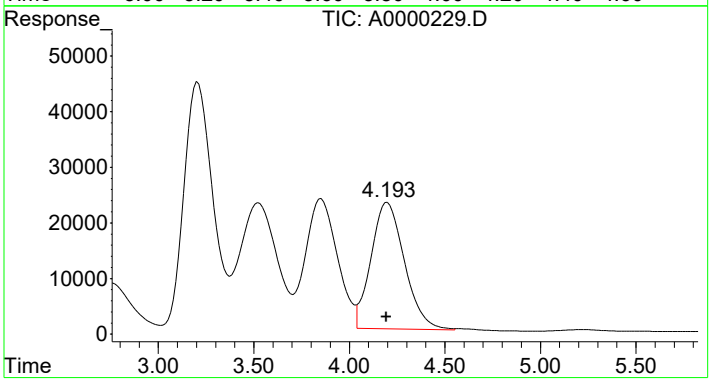
#2 Pyruvic acid

R.T.: 3.525 min
Delta R.T.: 0.002 min
Response: 2942130
Conc: 5.27 ppm



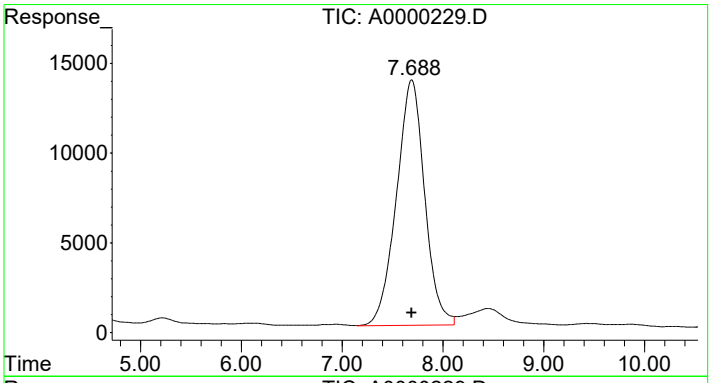
#3 Lactic Acid

R.T.: 3.852 min
Delta R.T.: 0.002 min
Response: 2694905
Conc: 52.60 ppm



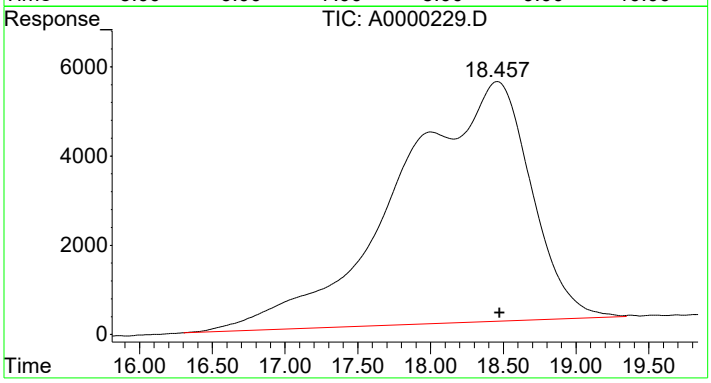
#4 Acetic Acid

R.T.: 4.193 min
Delta R.T.: 0.000 min
Response: 2760803
Conc: 52.90 ppm m



#5 Propionic Acid

R.T.: 7.688 min
Delta R.T.: -0.003 min
Response: 2658845
Conc: 49.86 ppm m



#6 Butyric Acid

R.T.: 18.457 min
Delta R.T.: -0.019 min
Response: 3413667
Conc: 45.82 ppm m

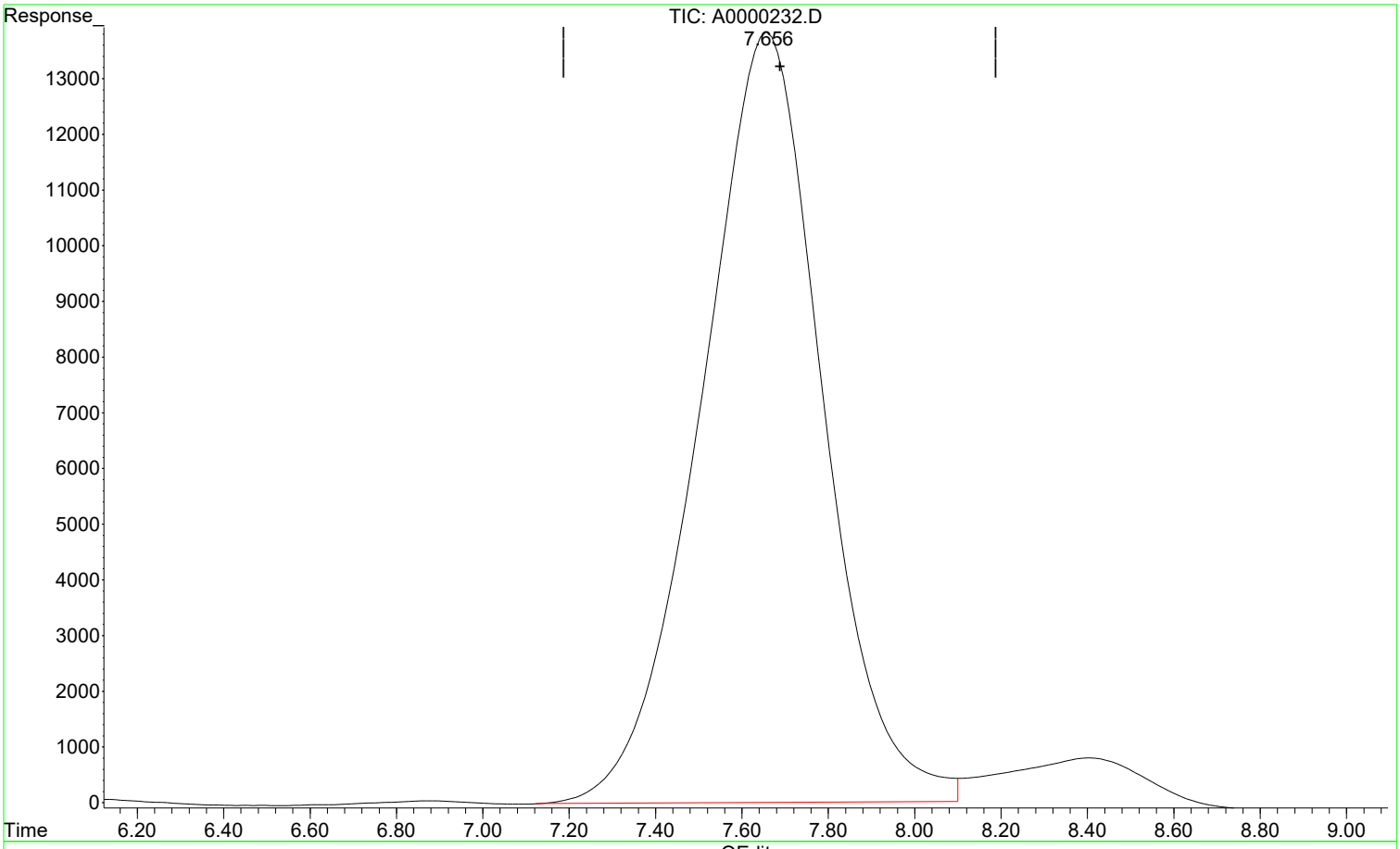
1st AF 09/17/24
2nd AM 09/18/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000232.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 17:35:33
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:02:49 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:02:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.656min 50.384 ppm m

response 2686764

Manual Integration:

After

Wrong peak selected.

09/17/24

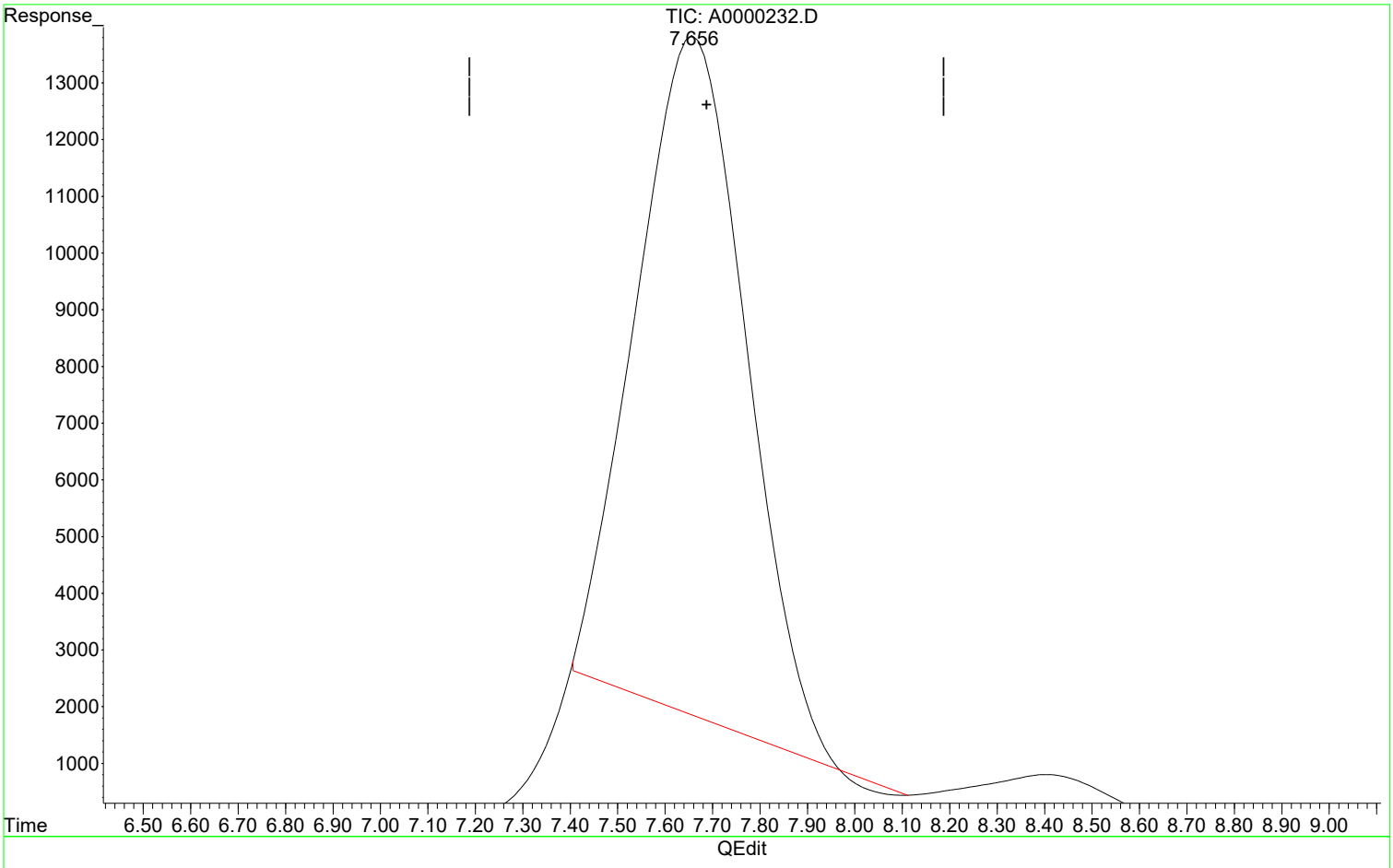
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000232.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 17:35:33
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:02:49 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:02:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.661min 36.283 ppm

response 1934817

Manual Integration:

Before

09/17/24

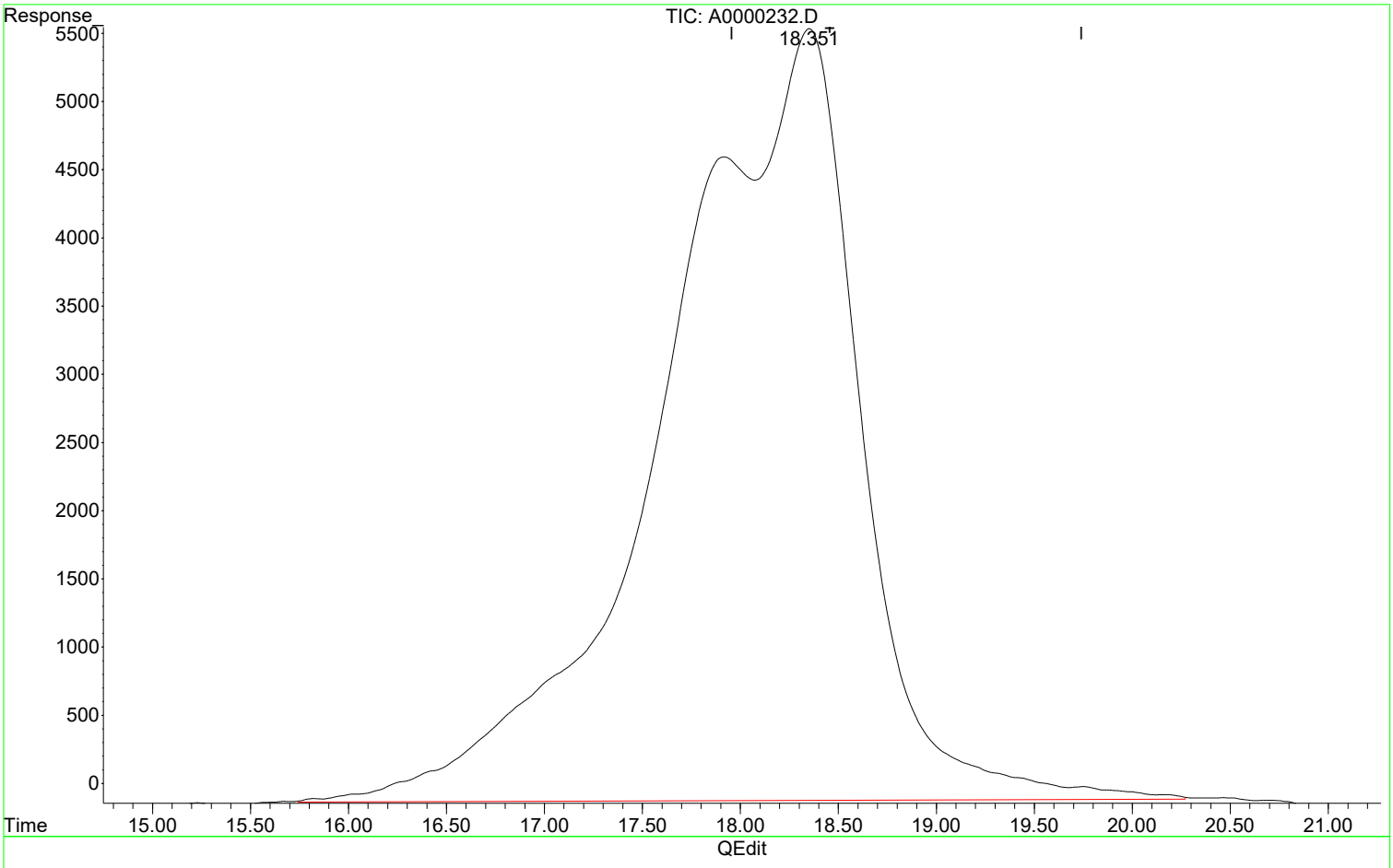
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000232.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 17:35:33
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:02:49 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:02:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.351min 52.060 ppm m

response 3878965

Manual Integration:

After

Poor integration.

09/17/24

(+) = Expected Retention Time

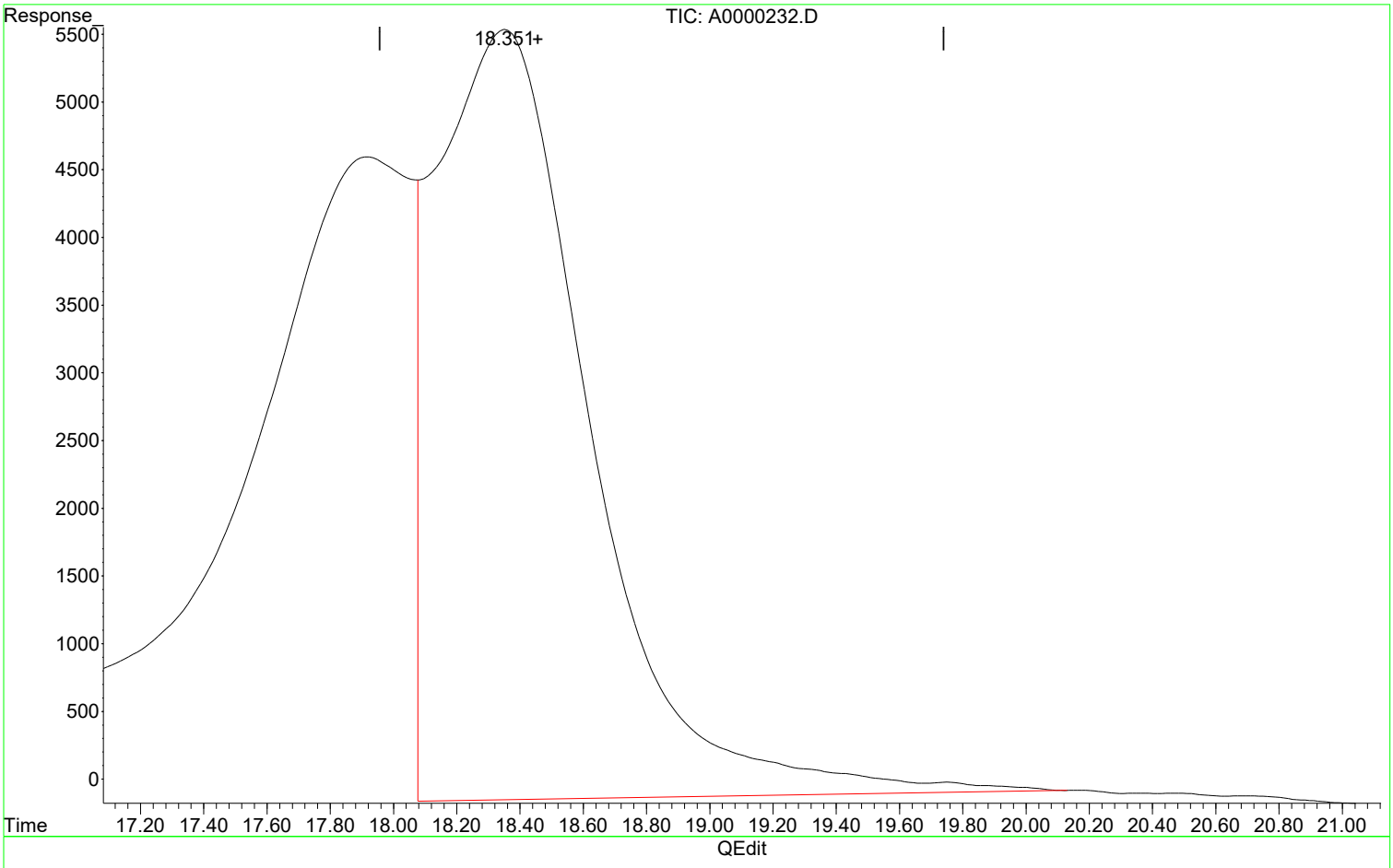
1st AF 09/17/24
2nd AM 09/18/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000232.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 17:35:33
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:02:49 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:02:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.355min 26.114 ppm

response 1945722

Manual Integration:

Before

09/17/24

(+) = Expected Retention Time

1st AF 09/17/24
2nd AM 09/18/24

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000232.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 17:35:33
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:02:49 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:02:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 t	Formic acid	50.000	52.182	-4.4	101	0.00
2 T	Pyruvic acid	5.000	5.261	-5.2	112	0.00
3 T	Lactic Acid	50.000	52.224	-4.4	110	0.00
4 T	Acetic Acid	50.000	53.958	-7.9	105	0.00
5 T	Propionic Acid	50.000	50.384	-0.8	97	-0.03
6 T	Butyric Acid	50.000	52.060	-4.1	103	-0.11

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000232.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 17:35:33
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:02:49 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:02:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.203	4528797	52.182	ppm	
2) T	Pyruvic acid	3.520	2935023	5.261	ppm	
3) T	Lactic Acid	3.844	2675571	52.224	ppm	
4) T	Acetic Acid	4.190	2815975	53.958	ppm	
5) T	Propionic Acid	7.656	2686764	50.384	ppm	m
6) T	Butyric Acid	18.351	3878965	52.060	ppm	m

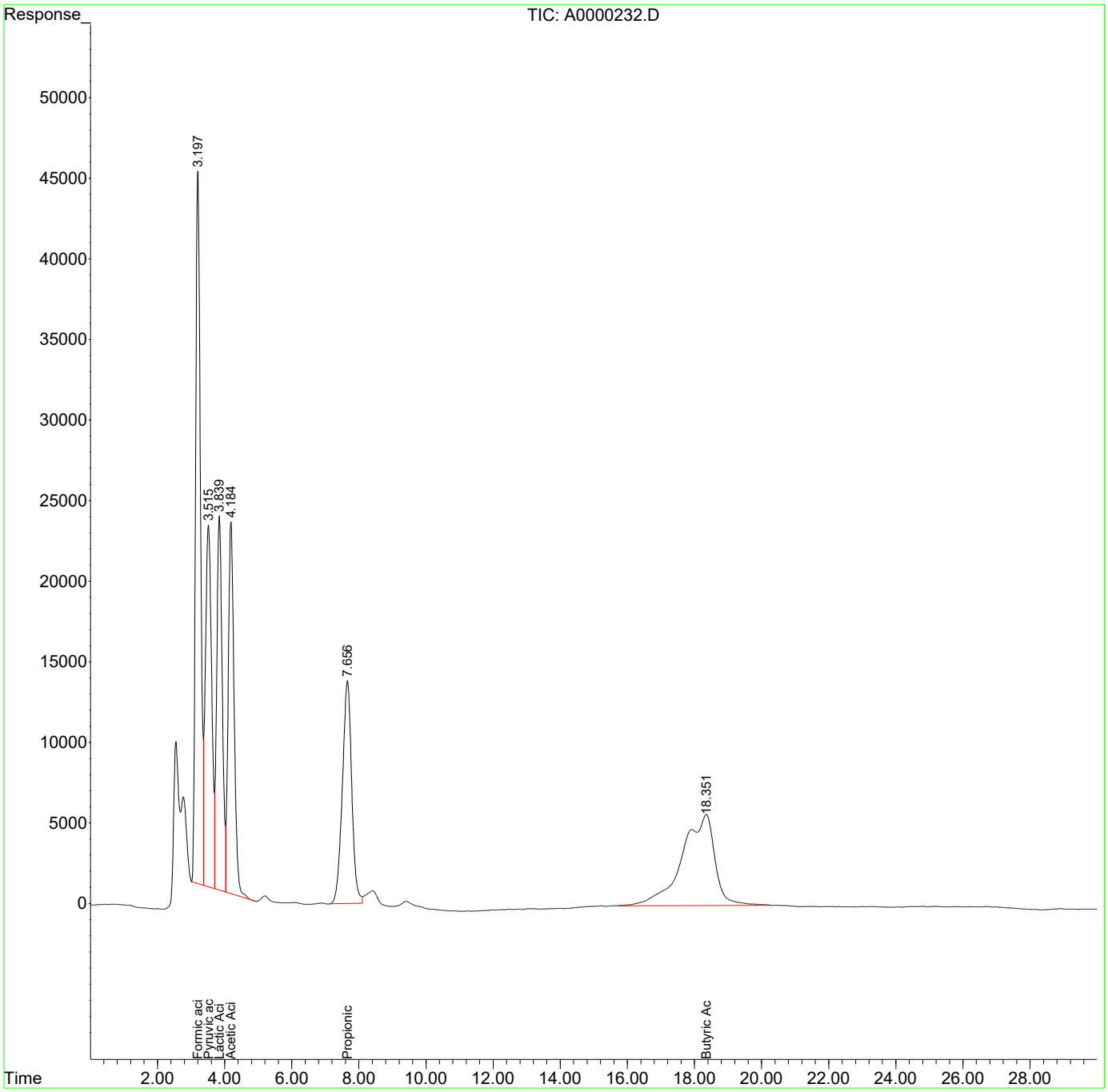
(f)=RT Delta > 1/2 Window (m)=manual int.

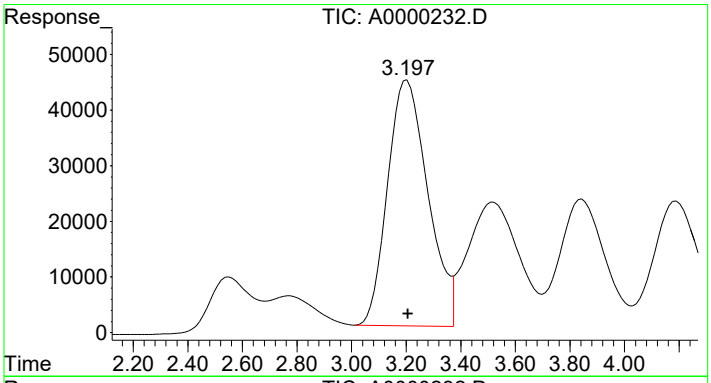
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000232.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 17:35:33
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:02:49 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:02:37 2024
Response via : Initial Calibration
Integrator: ChemStation

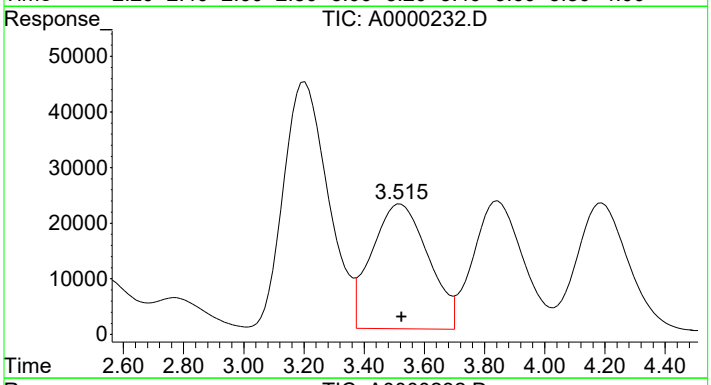
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





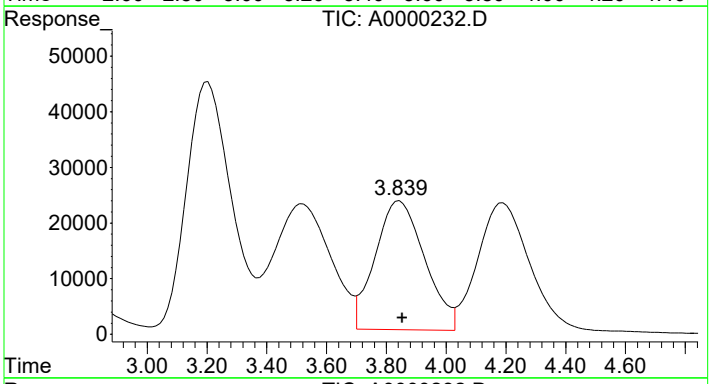
#1 Formic acid

R.T.: 3.203 min
Delta R.T.: -0.003 min
Response: 4528797
Conc: 52.18 ppm



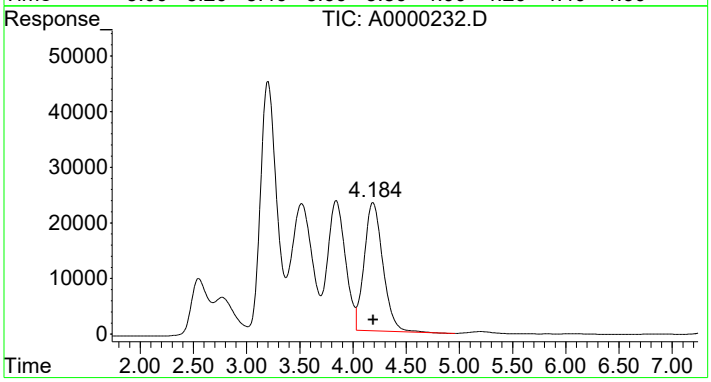
#2 Pyruvic acid

R.T.: 3.520 min
Delta R.T.: -0.004 min
Response: 2935023
Conc: 5.26 ppm



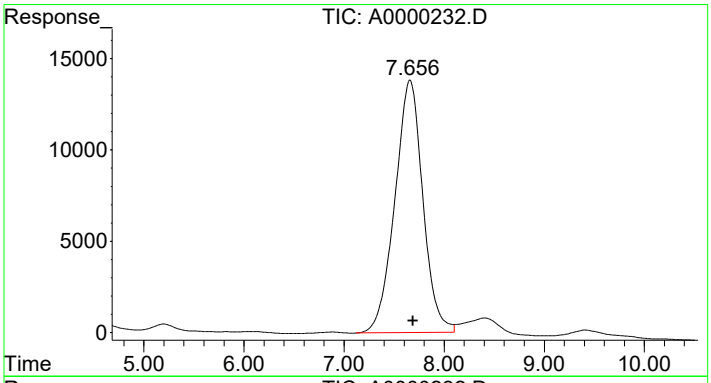
#3 Lactic Acid

R.T.: 3.844 min
Delta R.T.: -0.008 min
Response: 2675571
Conc: 52.22 ppm



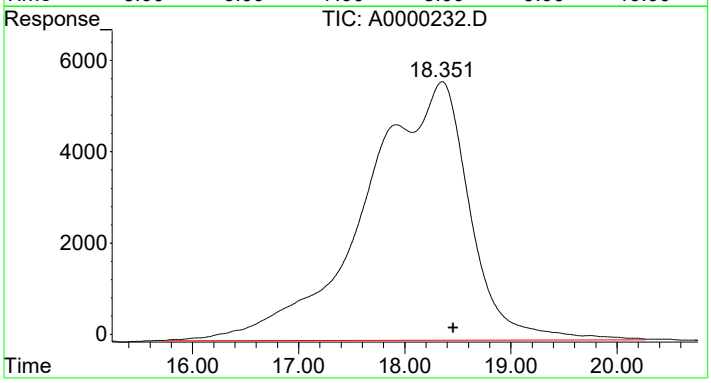
#4 Acetic Acid

R.T.: 4.190 min
Delta R.T.: -0.003 min
Response: 2815975
Conc: 53.96 ppm



#5 Propionic Acid

R.T.: 7.656 min
Delta R.T.: -0.032 min
Response: 2686764
Conc: 50.38 ppm m



#6 Butyric Acid

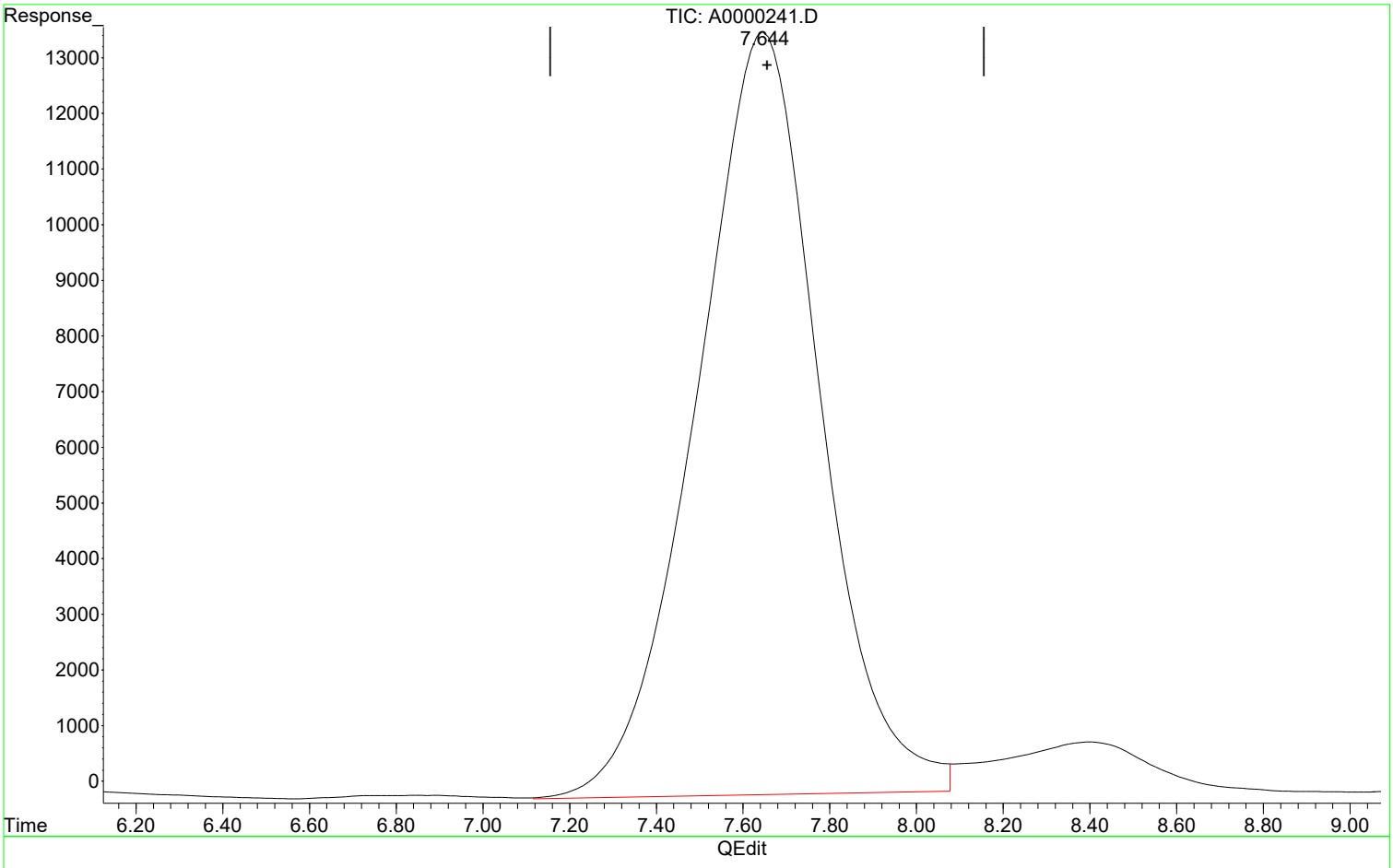
R.T.: 18.351 min
Delta R.T.: -0.107 min
Response: 3878965
Conc: 52.06 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000241.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 22:21:37
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:04:36 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.644min 50.487 ppm m

response 2692257

Manual Integration:

After

Poor integration.

09/17/24

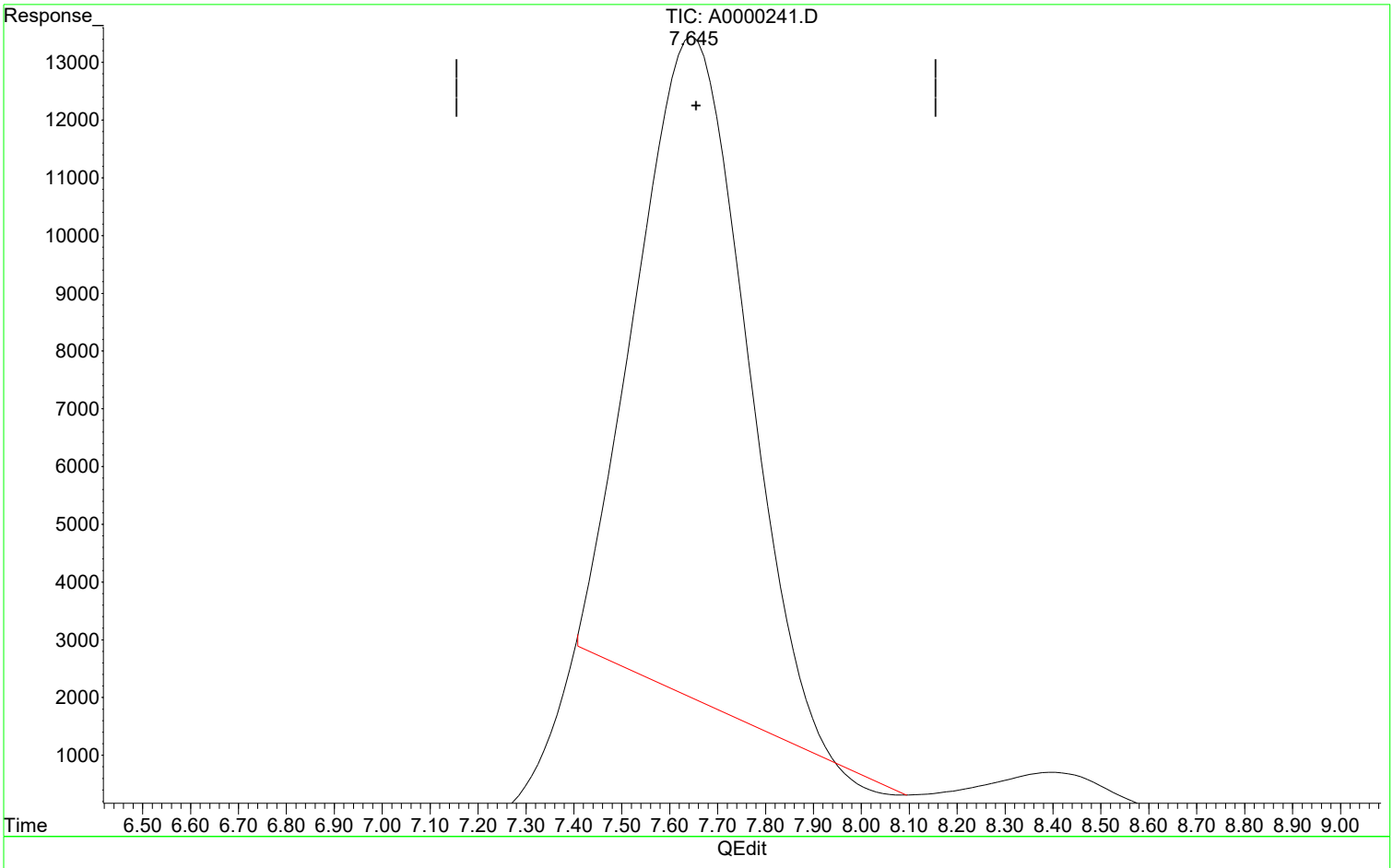
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000241.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 22:21:37
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:04:36 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.650min 33.954 ppm

response 1810632

Manual Integration:

Before

09/17/24

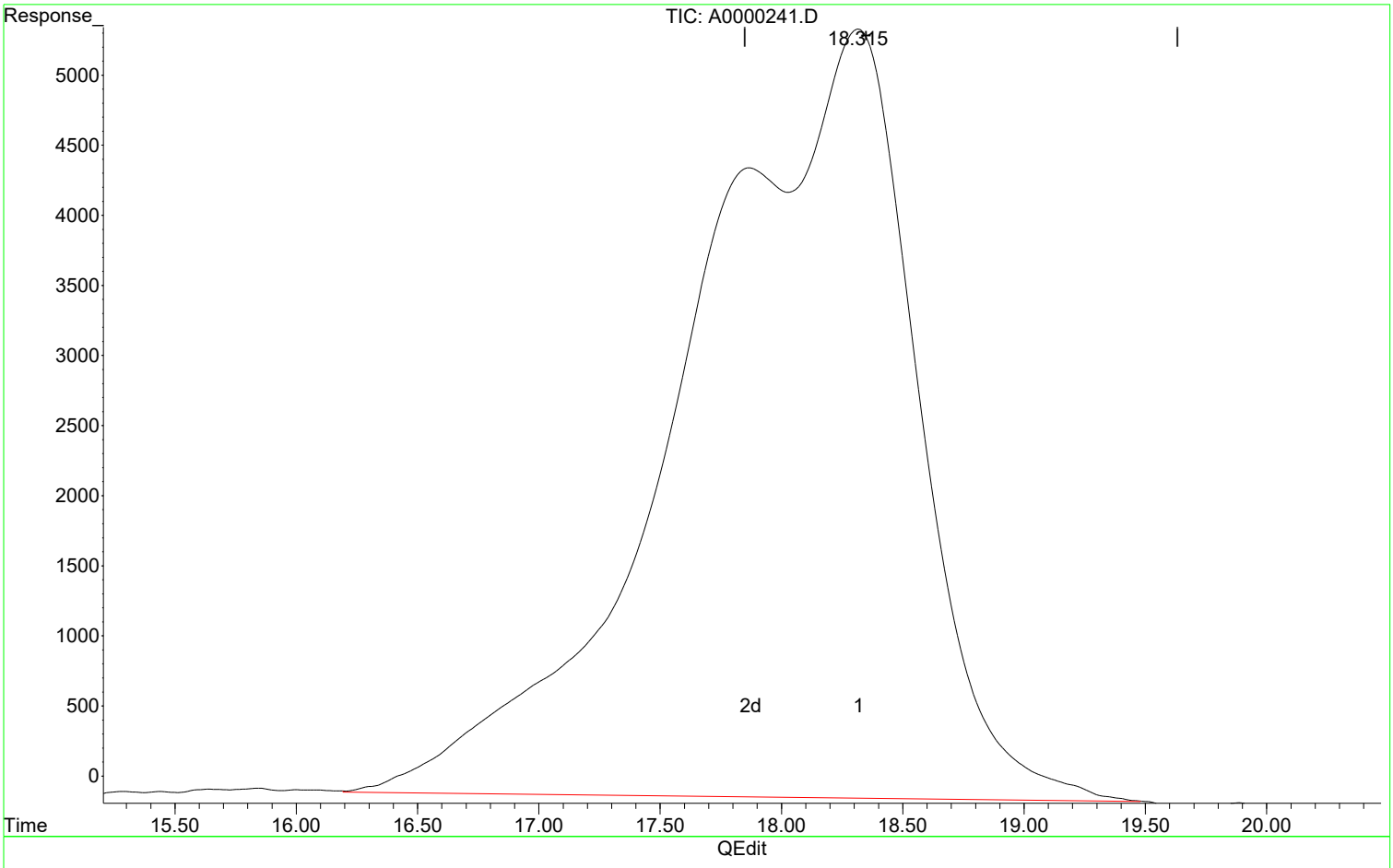
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000241.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 22:21:37
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:04:36 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.315min 48.238 ppm m

response 3594195

Manual Integration:

After

Poor integration.

09/17/24

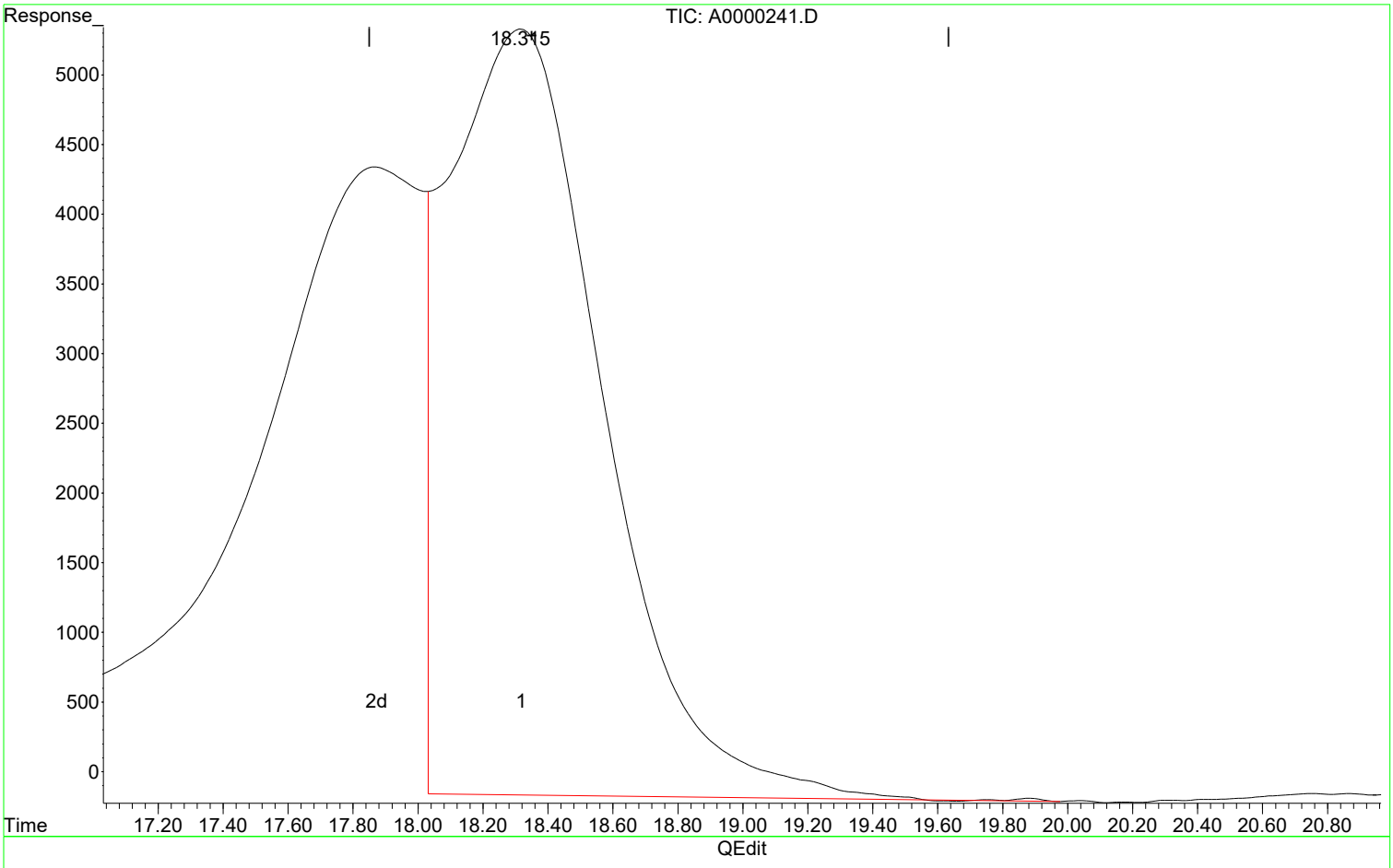
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000241.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 22:21:37
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:04:36 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.319min 24.672 ppm

response 1838316

Manual Integration:

Before

09/17/24

(+) = Expected Retention Time

1st AF 09/17/24
2nd AM 09/18/24

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000241.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 22:21:37
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:04:36 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 t	Formic acid	50.000	52.048	-4.1	101	0.00
2 T	Pyruvic acid	5.000	5.254	-5.1	111	0.00
3 T	Lactic Acid	50.000	52.578	-5.2	111	0.00
4 T	Acetic Acid	50.000	53.727	-7.5	105	0.00
5 T	Propionic Acid	50.000	50.487	-1.0	97	-0.01
6 T	Butyric Acid	50.000	48.238	3.5	95	-0.04

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000241.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 22:21:37
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:04:36 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.200	4517171	52.048	ppm	
2) T	Pyruvic acid	3.514	2931213	5.254	ppm	
3) T	Lactic Acid	3.839	2693936	52.578	ppm	
4) T	Acetic Acid	4.186	2803941	53.727	ppm	
5) T	Propionic Acid	7.644	2692257	50.487	ppm	m
6) T	Butyric Acid	18.315	3594195	48.238	ppm	m

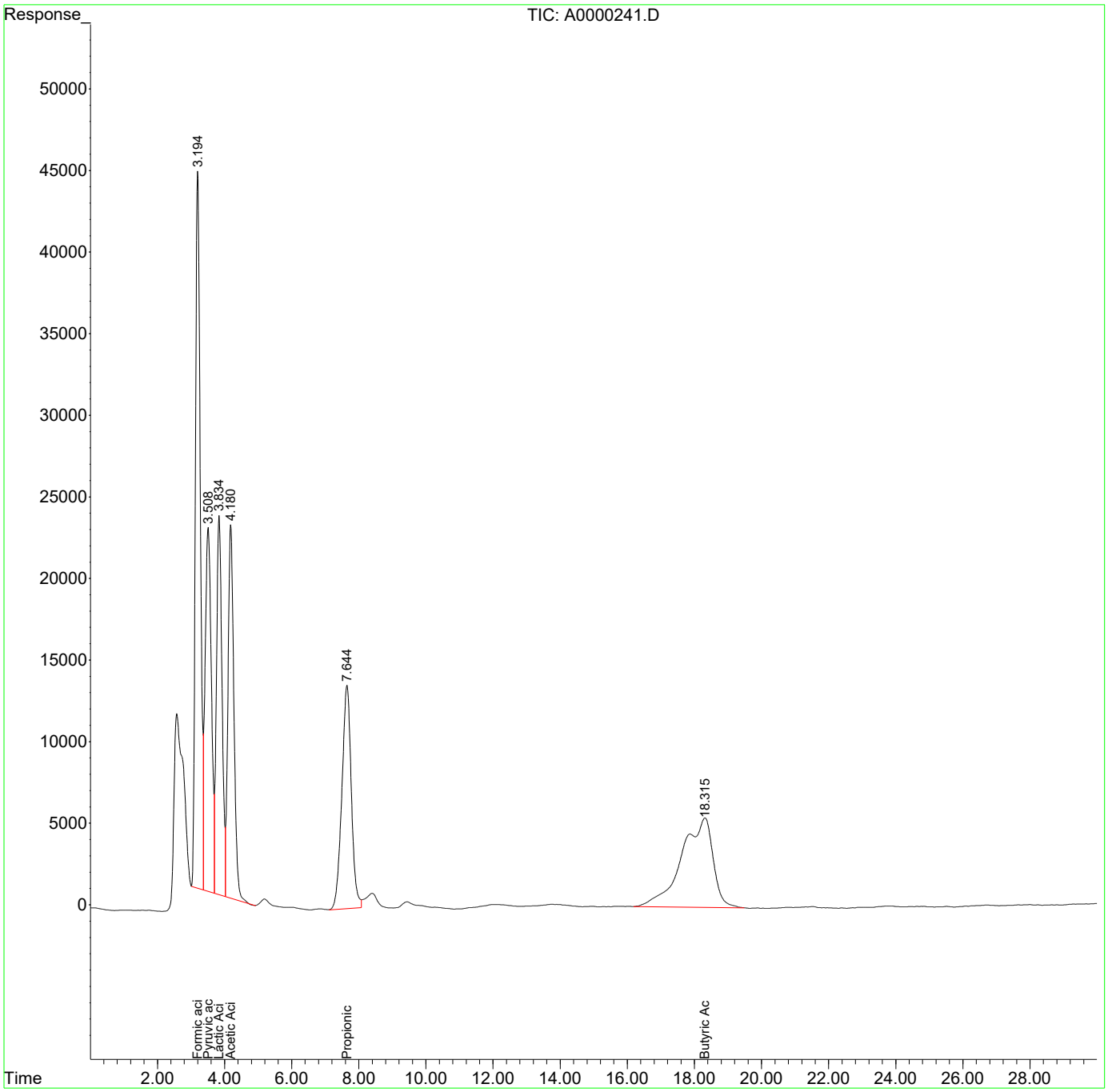
(f)=RT Delta > 1/2 Window (m)=manual int.

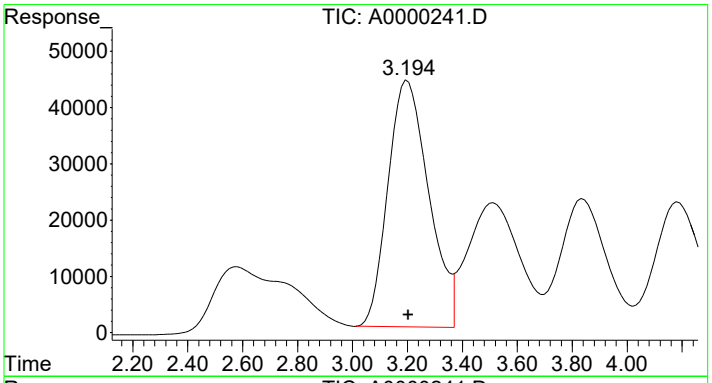
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\091624\
Data File : A0000241.D
Signal(s) : dad1A.ch
Acq On : 16-Sep-2024, 22:21:37
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 17 16:04:36 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Tue Sep 17 16:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation

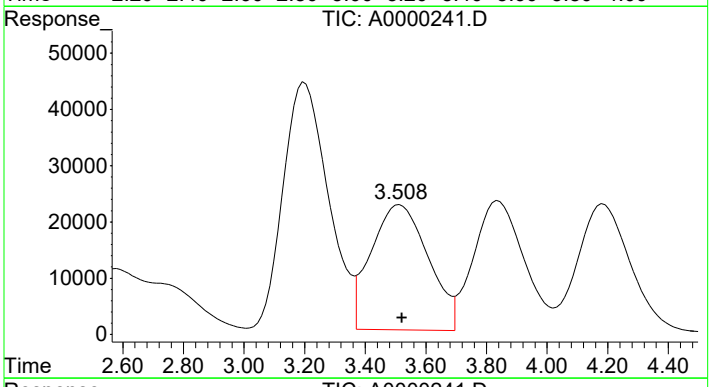
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





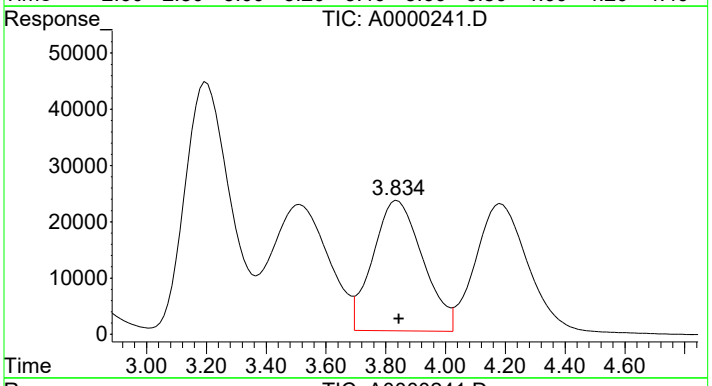
#1 Formic acid

R.T.: 3.200 min
Delta R.T.: -0.003 min
Response: 4517171
Conc: 52.05 ppm



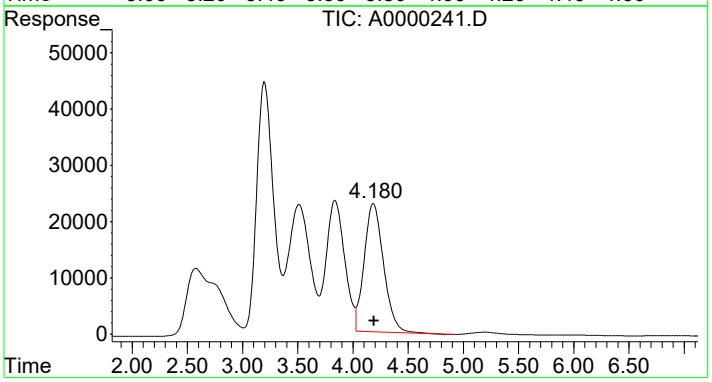
#2 Pyruvic acid

R.T.: 3.514 min
Delta R.T.: -0.006 min
Response: 2931213
Conc: 5.25 ppm



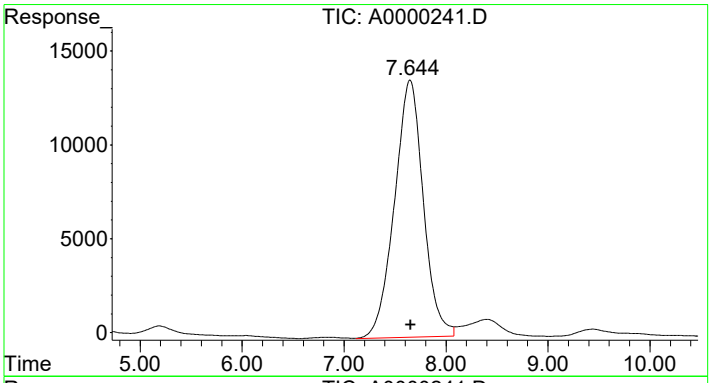
#3 Lactic Acid

R.T.: 3.839 min
Delta R.T.: -0.005 min
Response: 2693936
Conc: 52.58 ppm



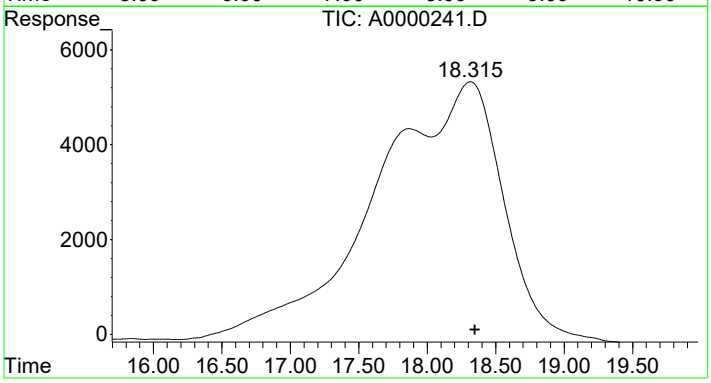
#4 Acetic Acid

R.T.: 4.186 min
Delta R.T.: -0.004 min
Response: 2803941
Conc: 53.73 ppm



#5 Propionic Acid

R.T.: 7.644 min
Delta R.T.: -0.012 min
Response: 2692257
Conc: 50.49 ppm m



#6 Butyric Acid

R.T.: 18.315 min
Delta R.T.: -0.036 min
Response: 3594195
Conc: 48.24 ppm m

Metabolic Acids
Instrument: R-HPLC-08

Analyst: AFelser
Date: 7/11/24
ICAL: RC 240131

Run Method: METACIDS
Quant Method: 8-MA071124
LIMS Run#: 847278 & 847279

Setup:
Column: Synergi Hydro RP
Mobile Phase: 0.01 M KH_2PO_4 in 0.1% H_3PO_4
Mobile Phase ID: 236135

Col.Temp: 35°C Flow: 0.6 ml/min
ul Inj.: 50

Pos.	Sample	Diln.*	Stds. ID	pH	Filtered	File#	OK?	Comments
1	BLK			<2	n/a	A000020	—	
1	BLK					21	—	
2	last BLK					22	Y	
3	0.1 | 1 STD	1µL | 1mL	235845			23	Y	
4	0.2 | 2 STD	2µL | 1mL				24	Y	
5	0.5 | 5 STD	5µL | 1mL				25	Y	
6	1 | 10 STD	10µL | 1mL				26	Y	
7	2 | 20 STD	20µL | 1mL				27	Y	
8	5 | 50 STD	50µL | 1mL				28	Y	
9	10 | 100 STD	100µL | 1mL				29	Y	
10	20 | 200 STD	200µL | 1mL				30	Y	
11	40 | 400 STD	400µL | 1mL	↓			31	Y	
12	ICV 50	50µL | 1mL	235846			32	Y	
13	CCV	↓	235845			33	Y	
14	MB					34	Y	
15	MDL Sweep	2µL | 1mL	235846			35	Y	
16	MDL Blks	10µL | 1mL				36	Y	
17	LCS	20µL | 1mL				37	Y	
18	DLCS	↓	↓			38	Y	
19	R240 5967-001					39	Y	
20	R240 5968-001					40	Y	
21	↓ -001 MS		235846			41	Y	
22	↓ -001 DMS		↓			42	Y	
13	CCV	50µL | 1mL	235845	↓	↓	43	Y	

AFelser 7/15/24

Primary: 235845 exp: 9/23/24
Secondary: 235846 Exp: 12/3/24
pH Paper: 234611
Acidified DI: 234459
Filters: n/a

MB is Acidified DI

*Notation for standards is Amount of Standard/Final Volume with Acidified DI.

Runlog HPLC05 r1
10/13/23
O-1177 Page 1 of 100

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000032.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 18:33:09
Operator : AFelser
Sample : ICV 50
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:57:33 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:51:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc Units
Target Compounds				
1) t	Formic acid	3.239	4567508	52.628 ppm
2) T	Pyruvic acid	3.613	2744485	4.924 ppm
3) T	Lactic Acid	3.970	2652914	51.786 ppm
4) T	Acetic Acid	4.332	2859101	54.784 ppm
5) T	Propionic Acid	8.238	2665926	49.993 ppm
6) T	Butyric Acid	20.418	3675537	49.330 ppm

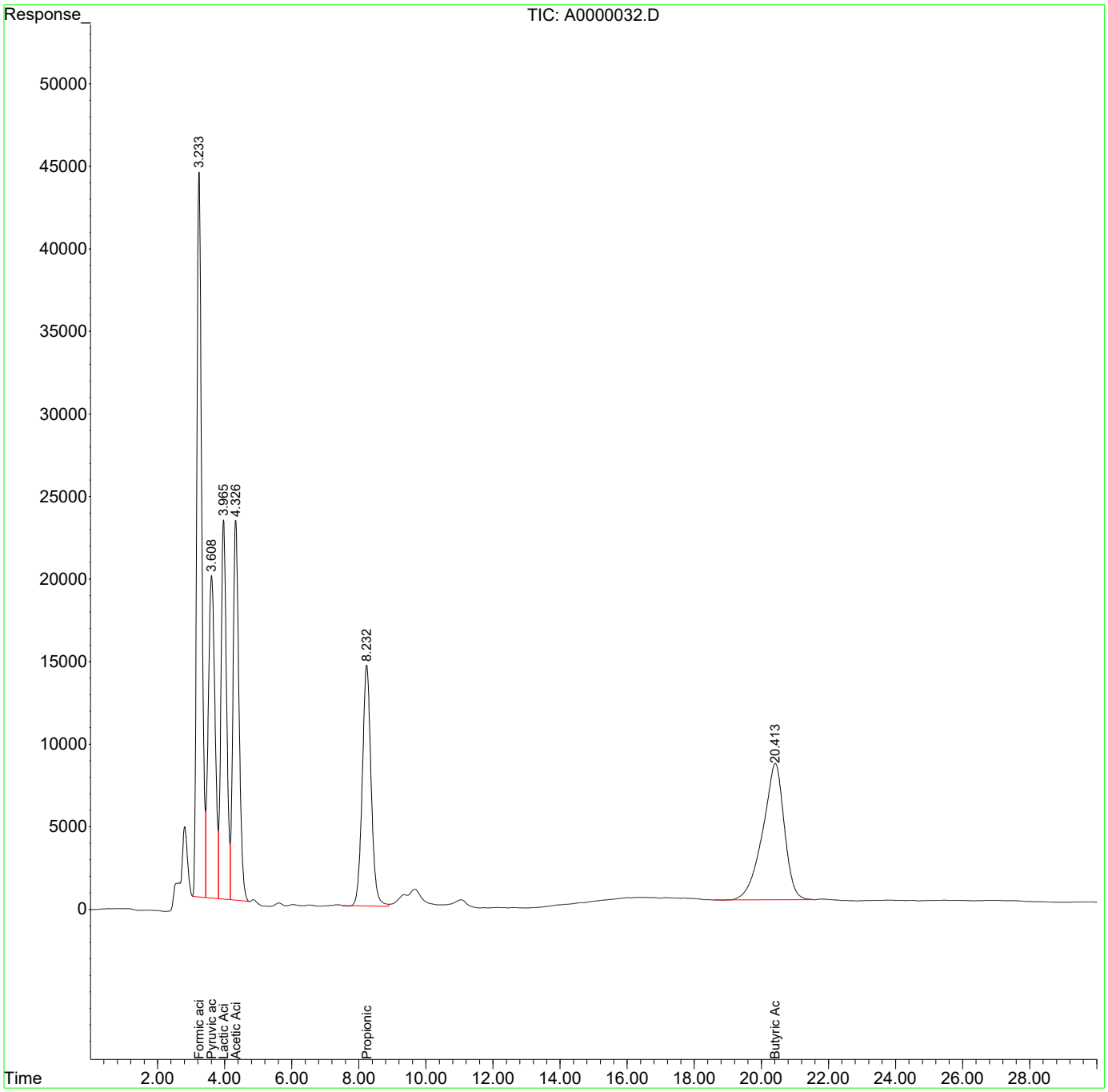
(f)=RT Delta > 1/2 Window (m)=manual int.

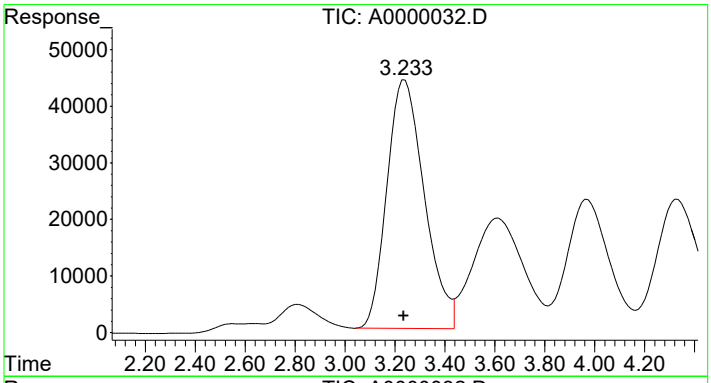
1st AF 07/15/24
2nd BA 07/16/24

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000032.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 18:33:09
Operator : AFelser
Sample : ICV 50
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:57:33 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:51:54 2024
Response via : Initial Calibration
Integrator: ChemStation

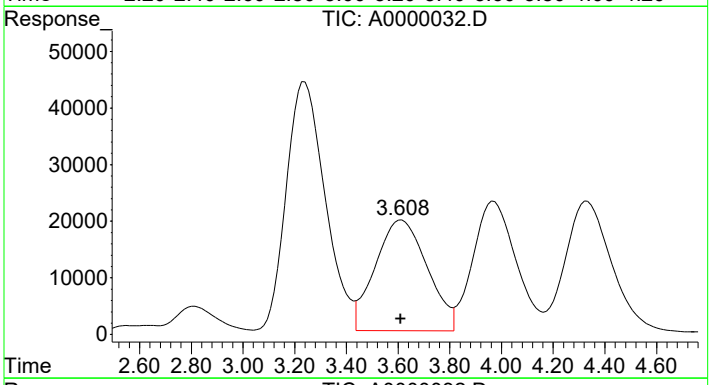
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





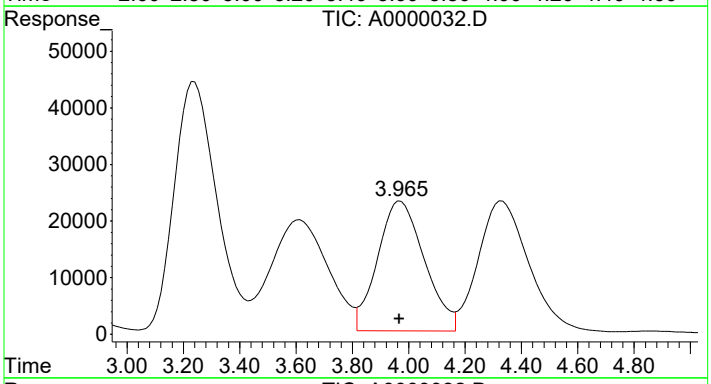
#1 Formic acid

R.T.: 3.239 min
Delta R.T.: 0.004 min
Response: 4567508
Conc: 52.63 ppm



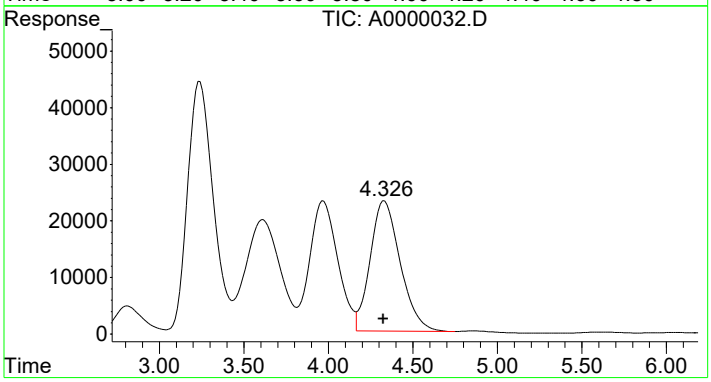
#2 Pyruvic acid

R.T.: 3.613 min
Delta R.T.: 0.003 min
Response: 2744485
Conc: 4.92 ppm



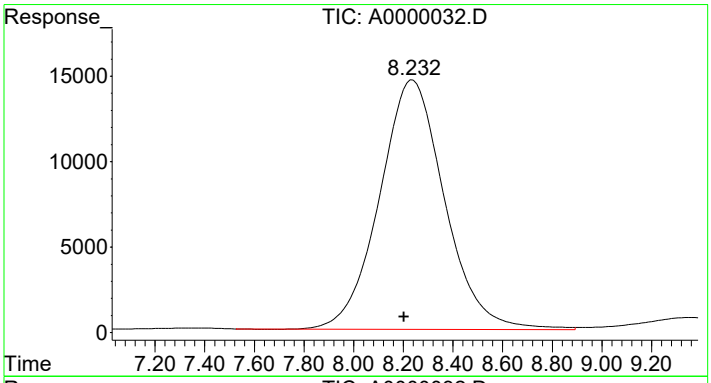
#3 Lactic Acid

R.T.: 3.970 min
Delta R.T.: 0.004 min
Response: 2652914
Conc: 51.79 ppm



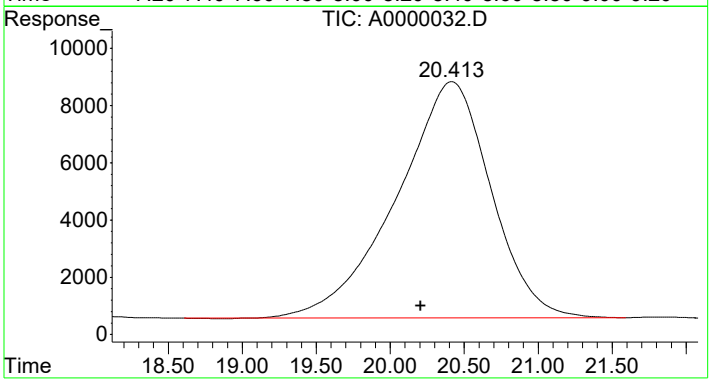
#4 Acetic Acid

R.T.: 4.332 min
Delta R.T.: 0.008 min
Response: 2859101
Conc: 54.78 ppm



#5 Propionic Acid

R.T.: 8.238 min
Delta R.T.: 0.035 min
Response: 2665926
Conc: 49.99 ppm



#6 Butyric Acid

R.T.: 20.418 min
Delta R.T.: 0.211 min
Response: 3675537
Conc: 49.33 ppm

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000022.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 13:15:19
Operator : AFelser
Sample : INST BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:57:21 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:51:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) t	Formic acid	0.000	0	N.D.	ppm
2) T	Pyruvic acid	0.000	0	N.D.	ppm
3) T	Lactic Acid	0.000	0	N.D.	ppm
4) T	Acetic Acid	0.000	0	N.D.	ppm
5) T	Propionic Acid	0.000	0	N.D.	ppm
6) T	Butyric Acid	0.000	0	N.D.	ppm

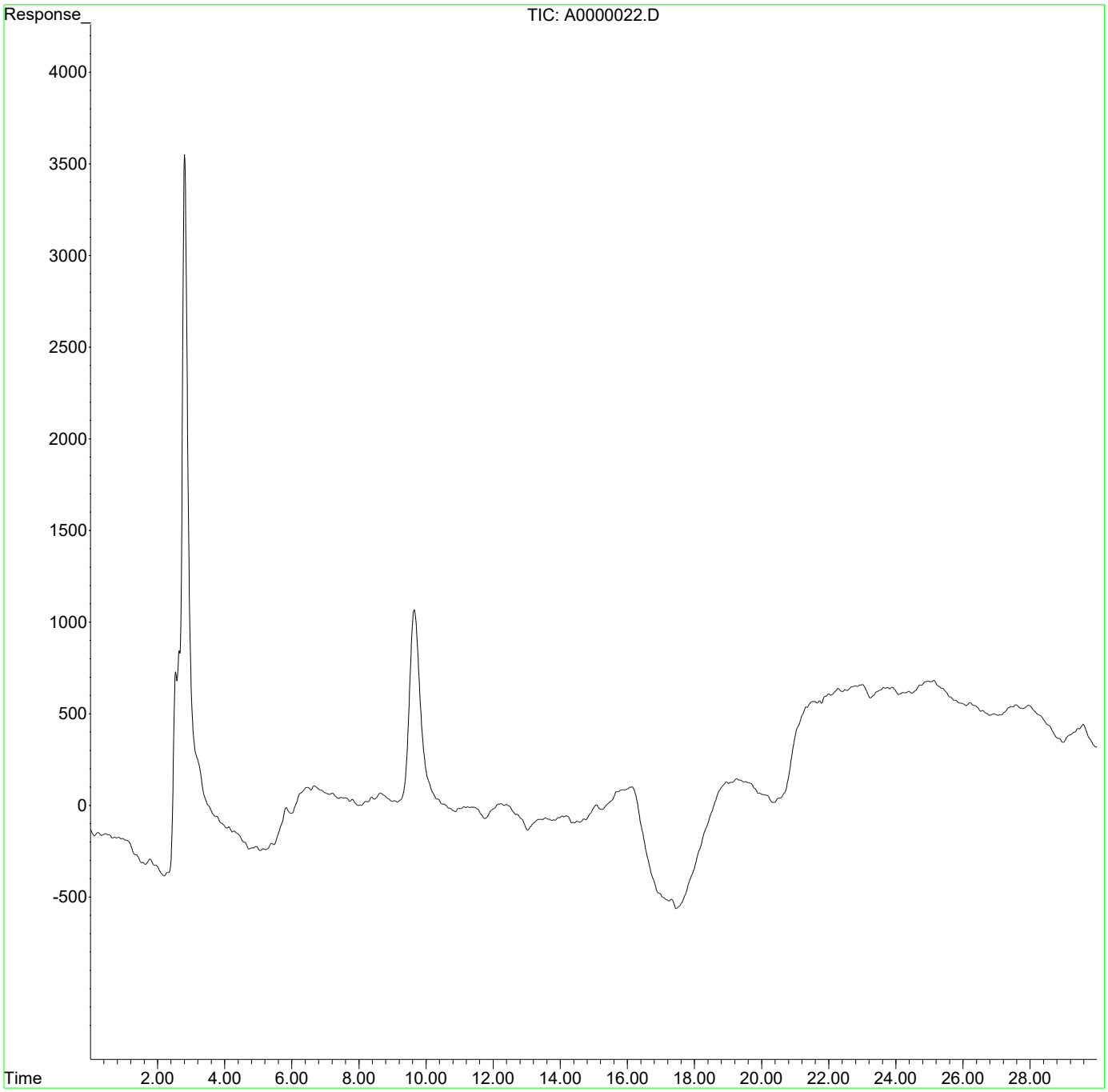
(f)=RT Delta > 1/2 Window (m)=manual int.

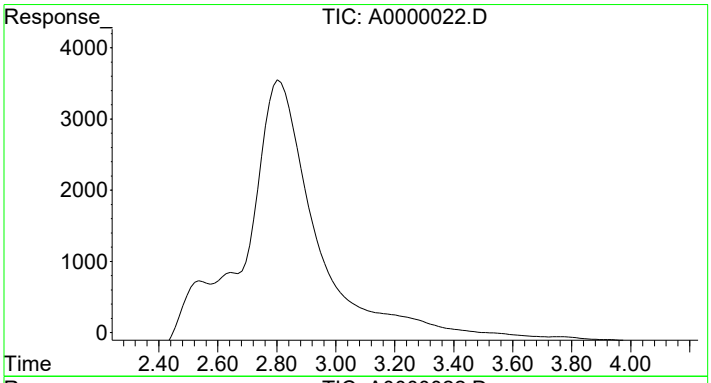
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000022.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 13:15:19
Operator : AFelser
Sample : INST BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:57:21 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:51:54 2024
Response via : Initial Calibration
Integrator: ChemStation

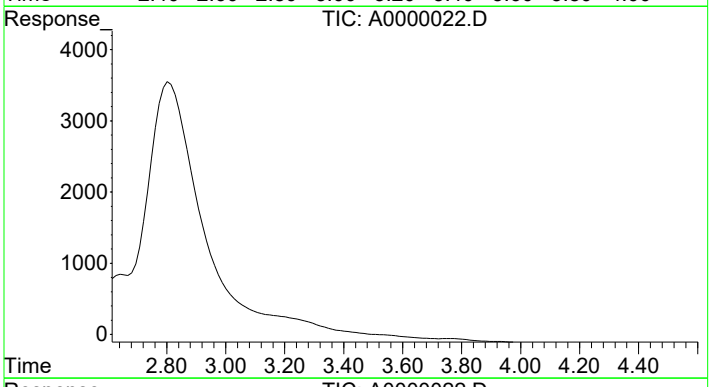
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





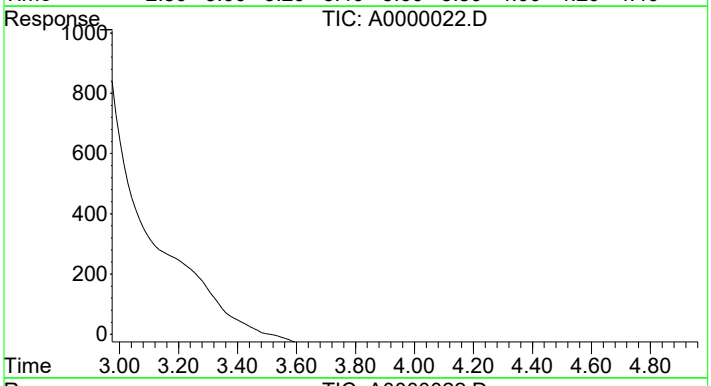
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.235 min
Response: 0
Conc: N.D.



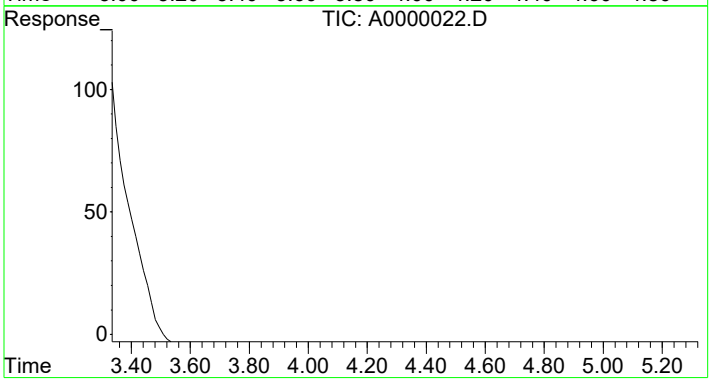
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.610 min
Response: 0
Conc: N.D.



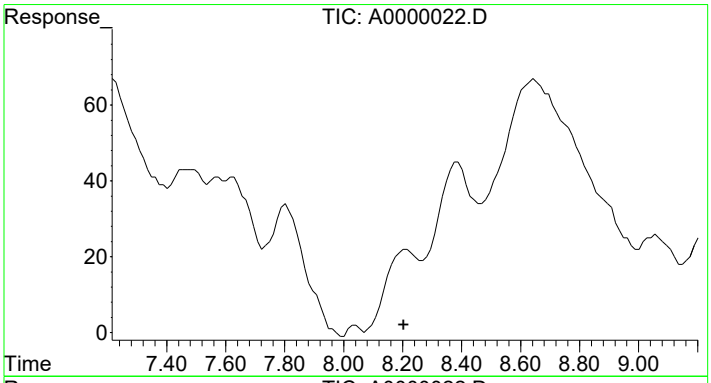
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.966 min
Response: 0
Conc: N.D.



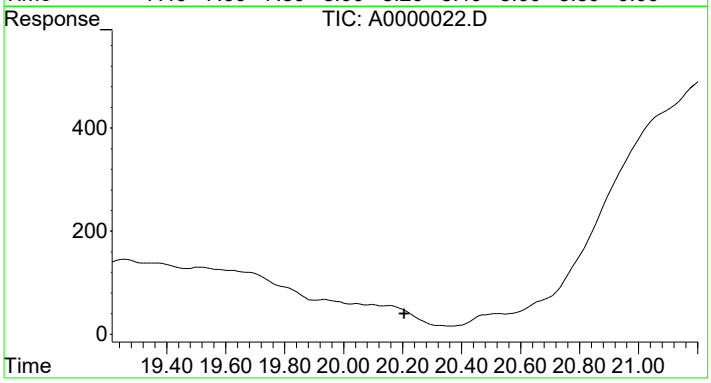
#4 Acetic Acid

R.T.: 0.000 min
Exp R.T. : 4.324 min
Response: 0
Conc: N.D.



#5 Propionic Acid

R.T.: 0.000 min
Exp R.T. : 8.203 min
Response: 0
Conc: N.D.



#6 Butyric Acid

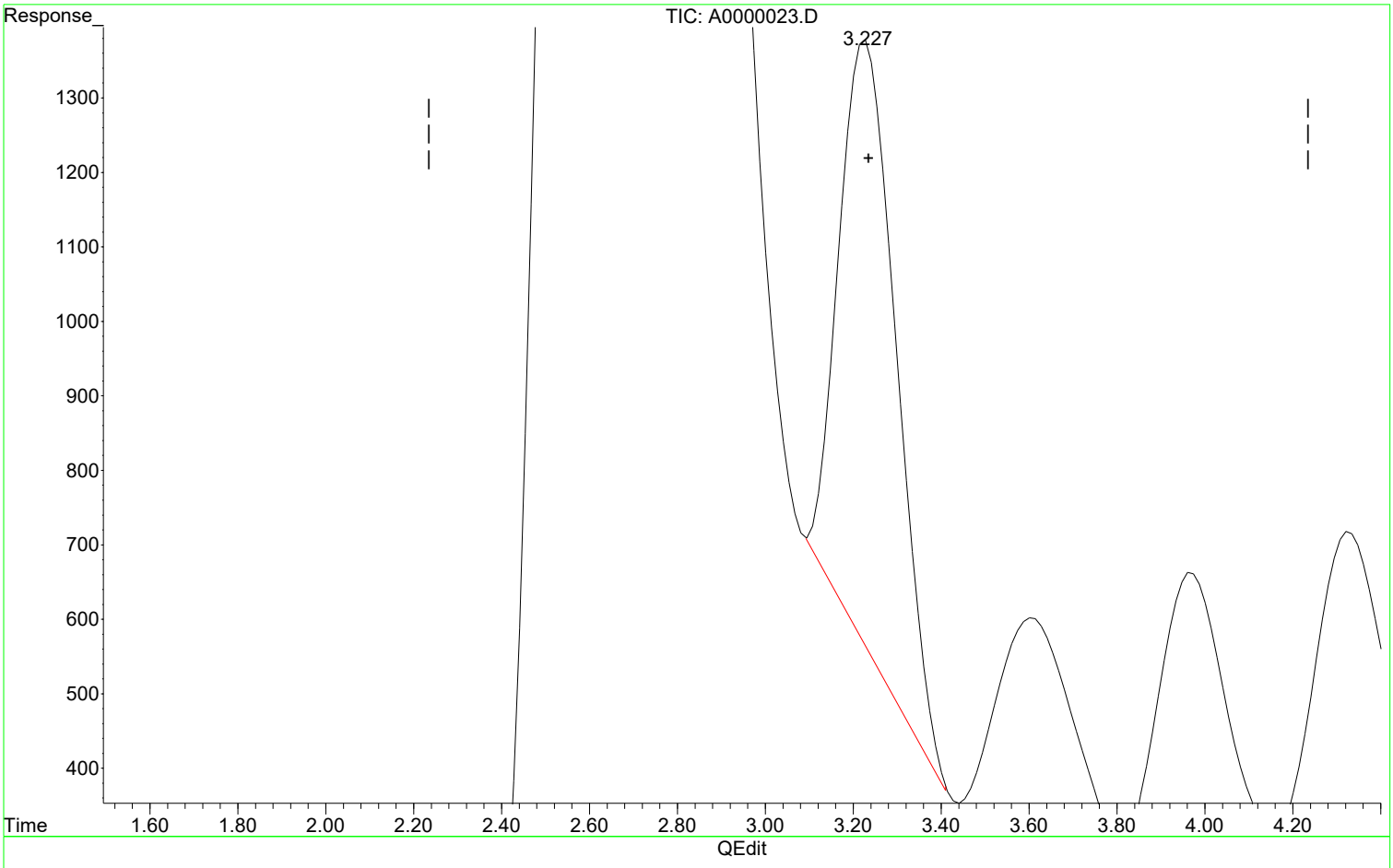
R.T.: 0.000 min
Exp R.T. : 20.206 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000023.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 13:47:08
Operator : AFelser
Sample : 0.1/1 STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:46:57 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)

3.227min 0.823 ppm m

response 73754

Manual Integration:

After

Poor integration.

07/12/24

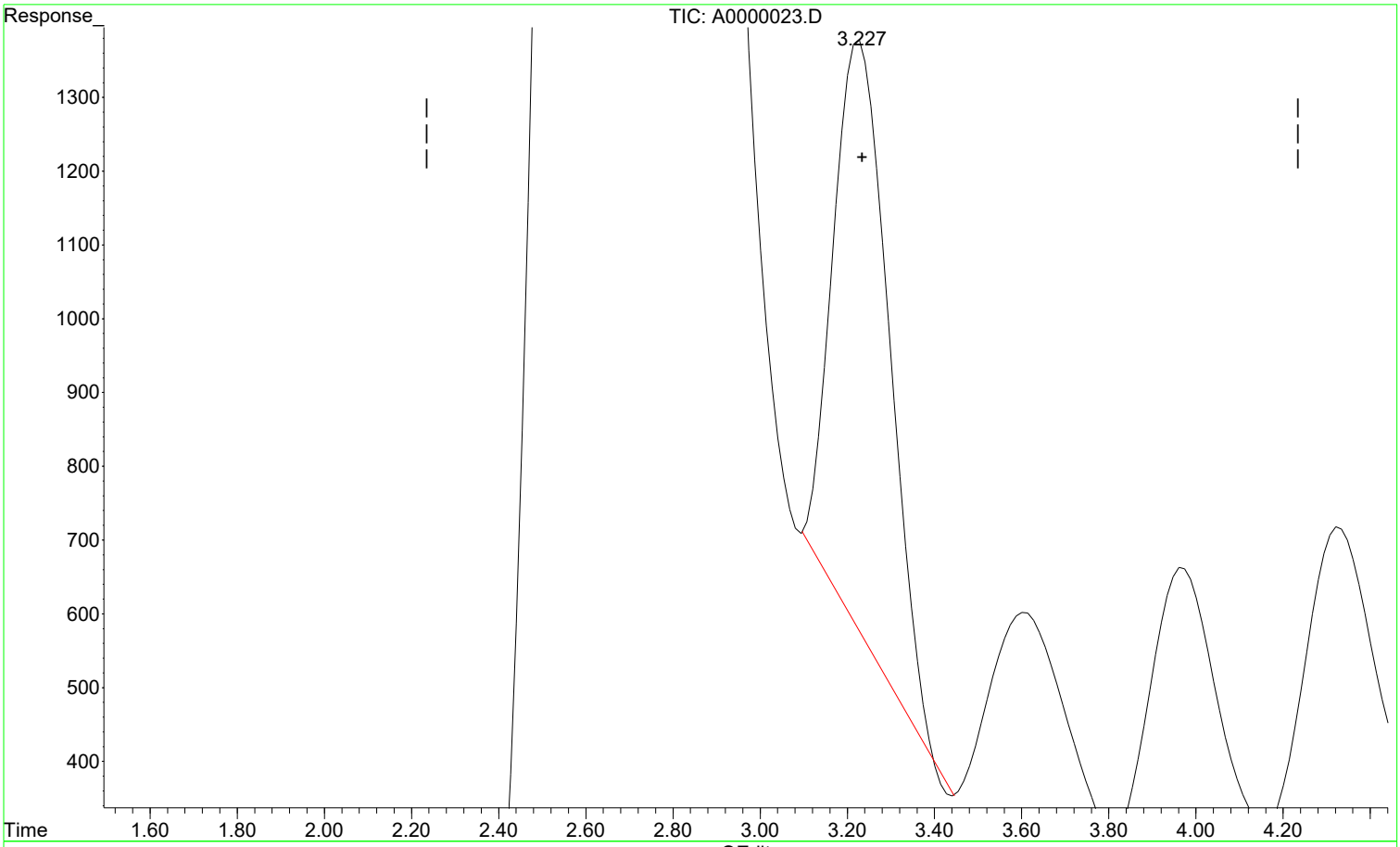
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000023.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 13:47:08
Operator : AFelser
Sample : 0.1/1 STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:46:57 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)

3.228min 0.805 ppm

response 72176

Manual Integration:

Before

07/12/24

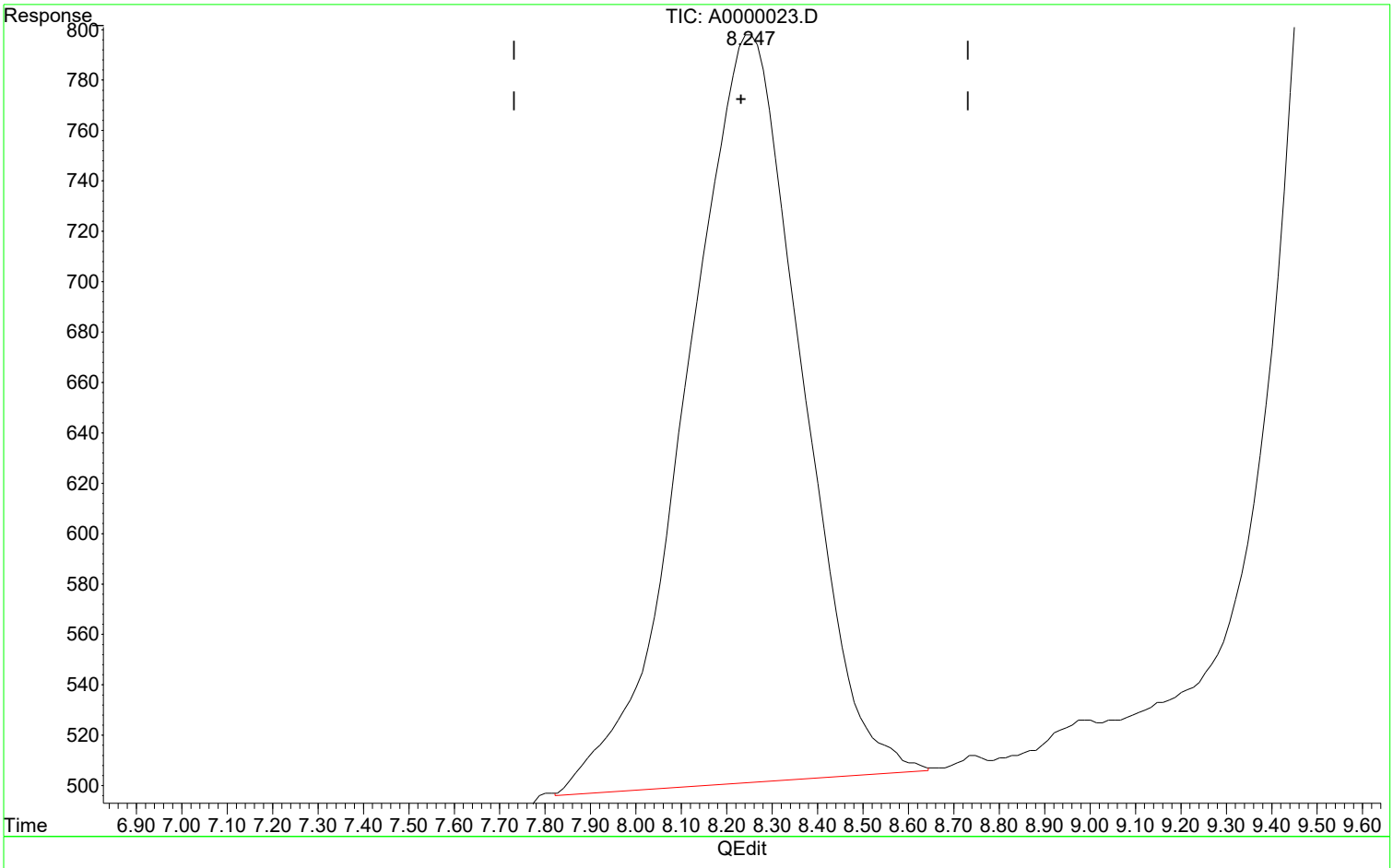
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000023.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 13:47:08
Operator : AFelser
Sample : 0.1/1 STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:46:57 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

8.247min 0.944 ppm m

response 52169

Manual Integration:

After

Poor integration.

07/12/24

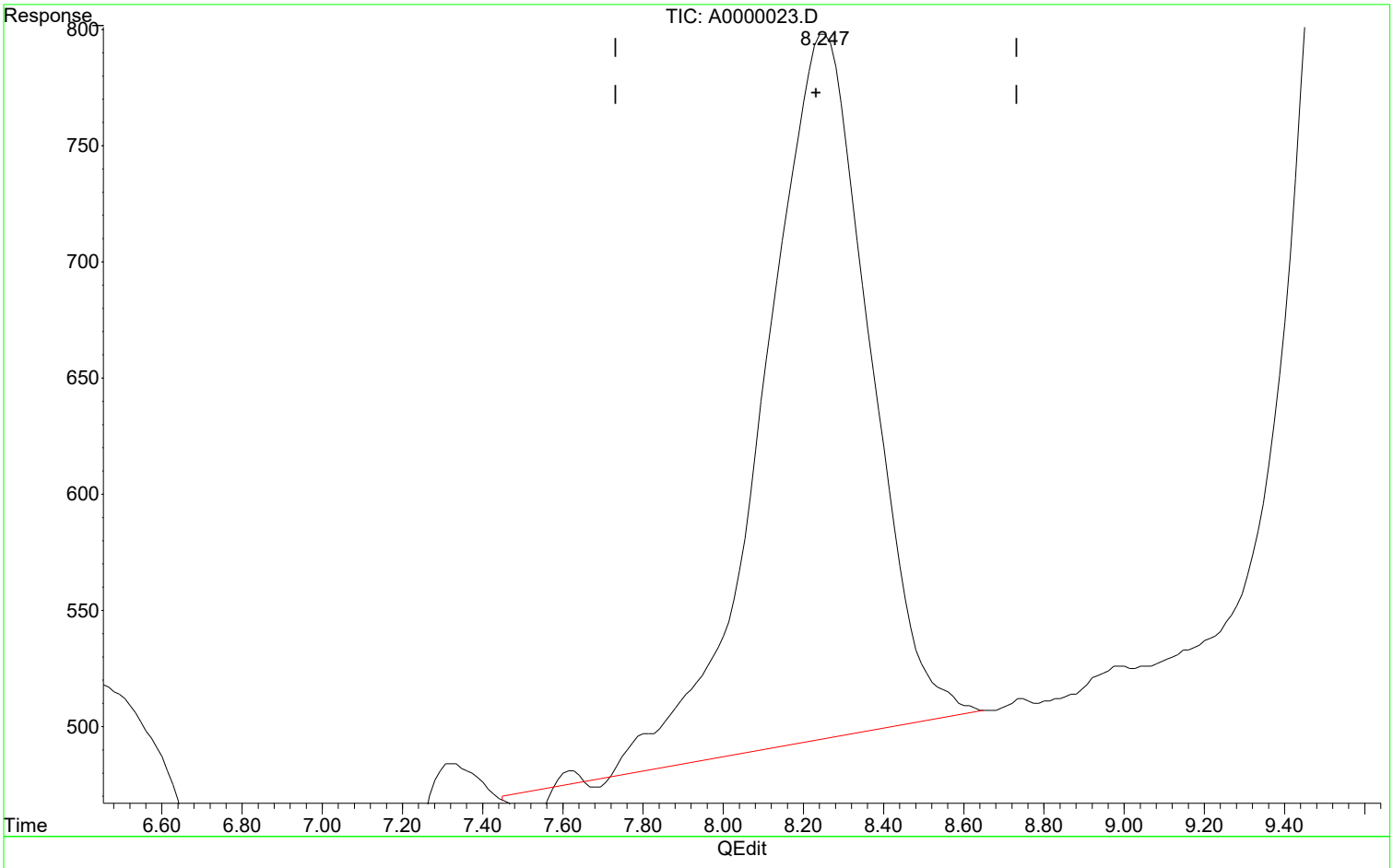
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000023.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 13:47:08
Operator : AFelser
Sample : 0.1/1 STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:46:57 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

8.254min 1.010 ppm

response 55819

Manual Integration:

Before

07/12/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000023.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 13:47:08
Operator : AFelser
Sample : 0.1/1 STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:46:57 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

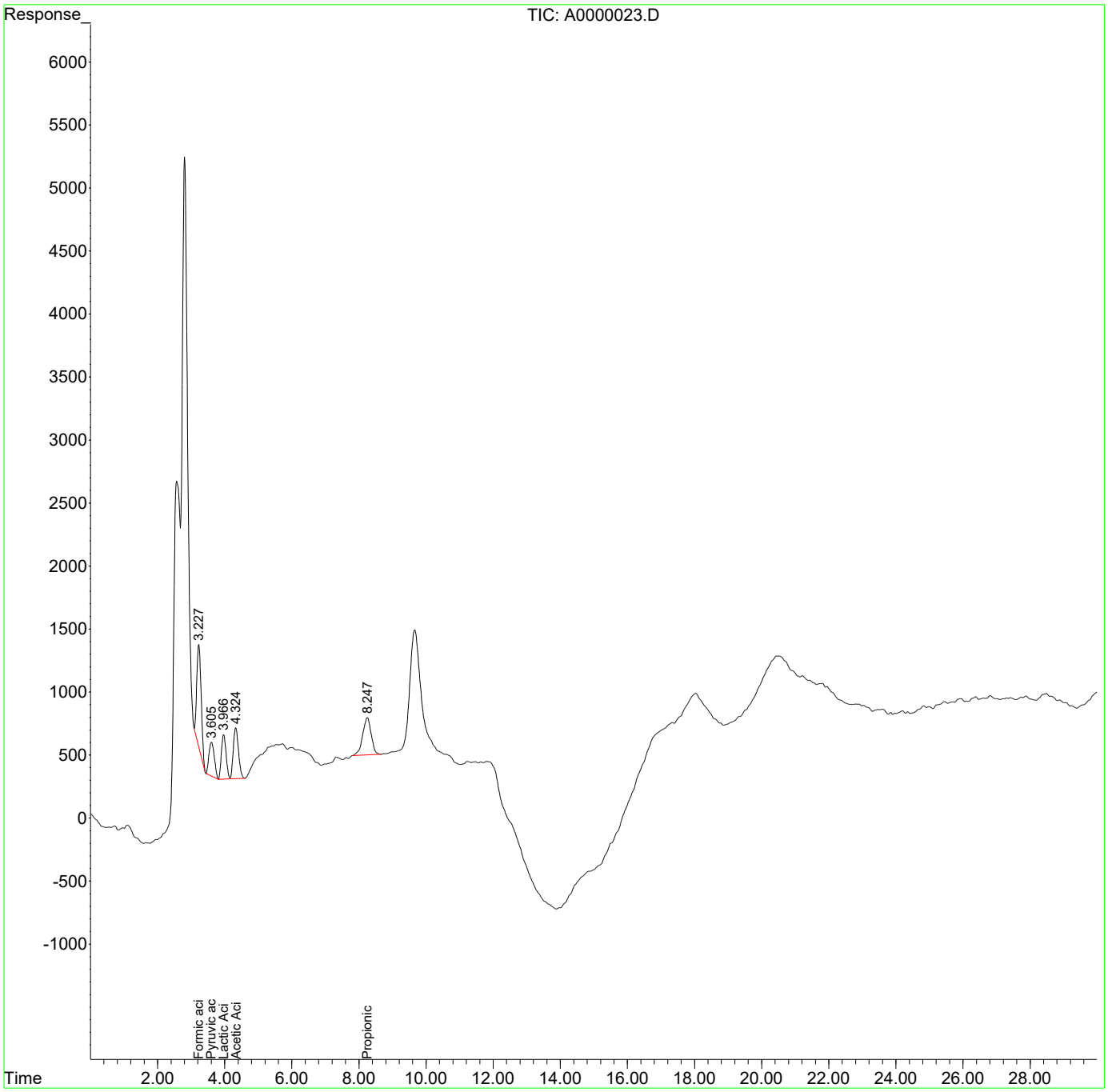
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.227	73754	0.823	ppm	m
2) T	Pyruvic acid	3.610	29971	0.057	ppm	
3) T	Lactic Acid	3.972	34131	0.705	ppm	
4) T	Acetic Acid	4.331	43454	0.811	ppm	
5) T	Propionic Acid	8.247	52169	0.944	ppm	m
6) T	Butyric Acid	0.000	0	N.D.	ppm	d

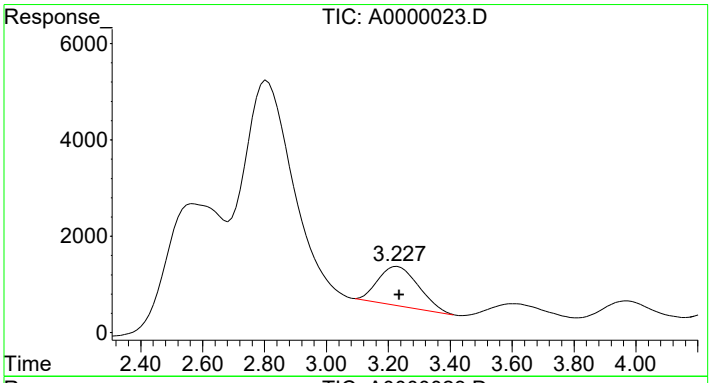
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000023.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 13:47:08
Operator : AFelser
Sample : 0.1/1 STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:46:57 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

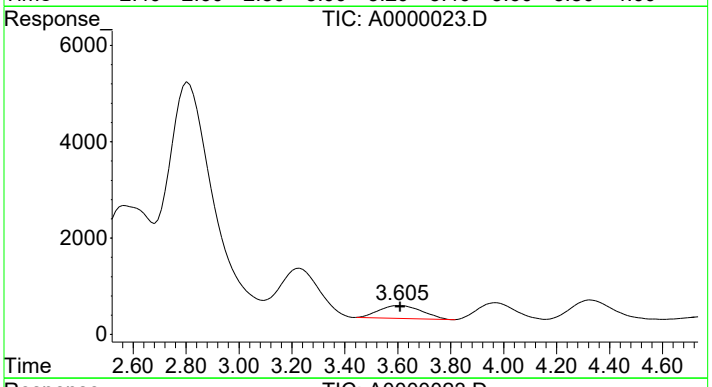
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





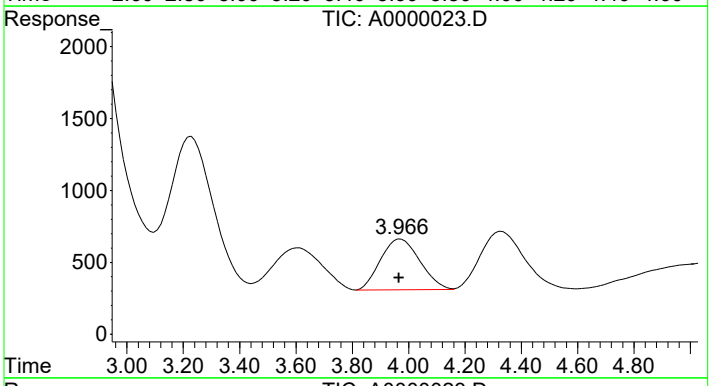
#1 Formic acid

R.T.: 3.227 min
Delta R.T.: -0.008 min
Response: 73754
Conc: 0.82 ppm m



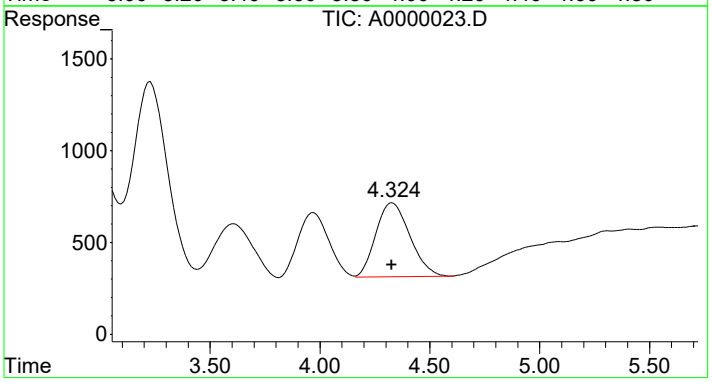
#2 Pyruvic acid

R.T.: 3.610 min
Delta R.T.: 0.000 min
Response: 29971
Conc: 0.06 ppm



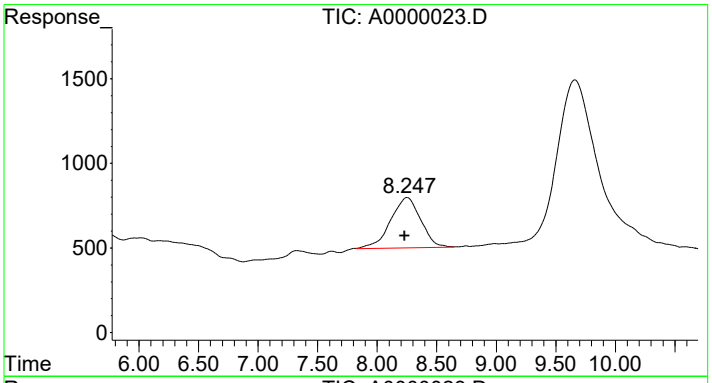
#3 Lactic Acid

R.T.: 3.972 min
Delta R.T.: 0.006 min
Response: 34131
Conc: 0.70 ppm



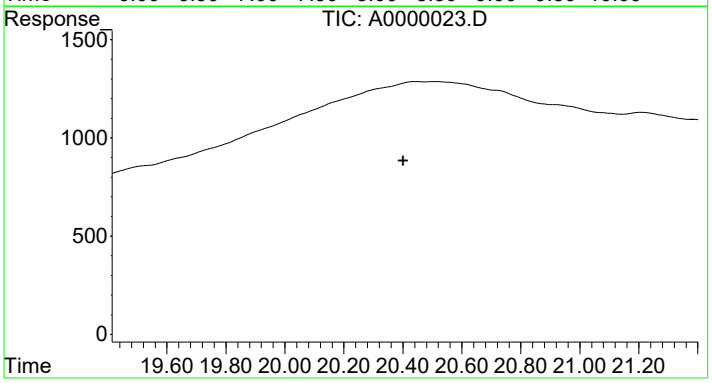
#4 Acetic Acid

R.T.: 4.331 min
Delta R.T.: 0.005 min
Response: 43454
Conc: 0.81 ppm



#5 Propionic Acid

R.T.: 8.247 min
Delta R.T.: 0.015 min
Response: 52169
Conc: 0.94 ppm m



#6 Butyric Acid

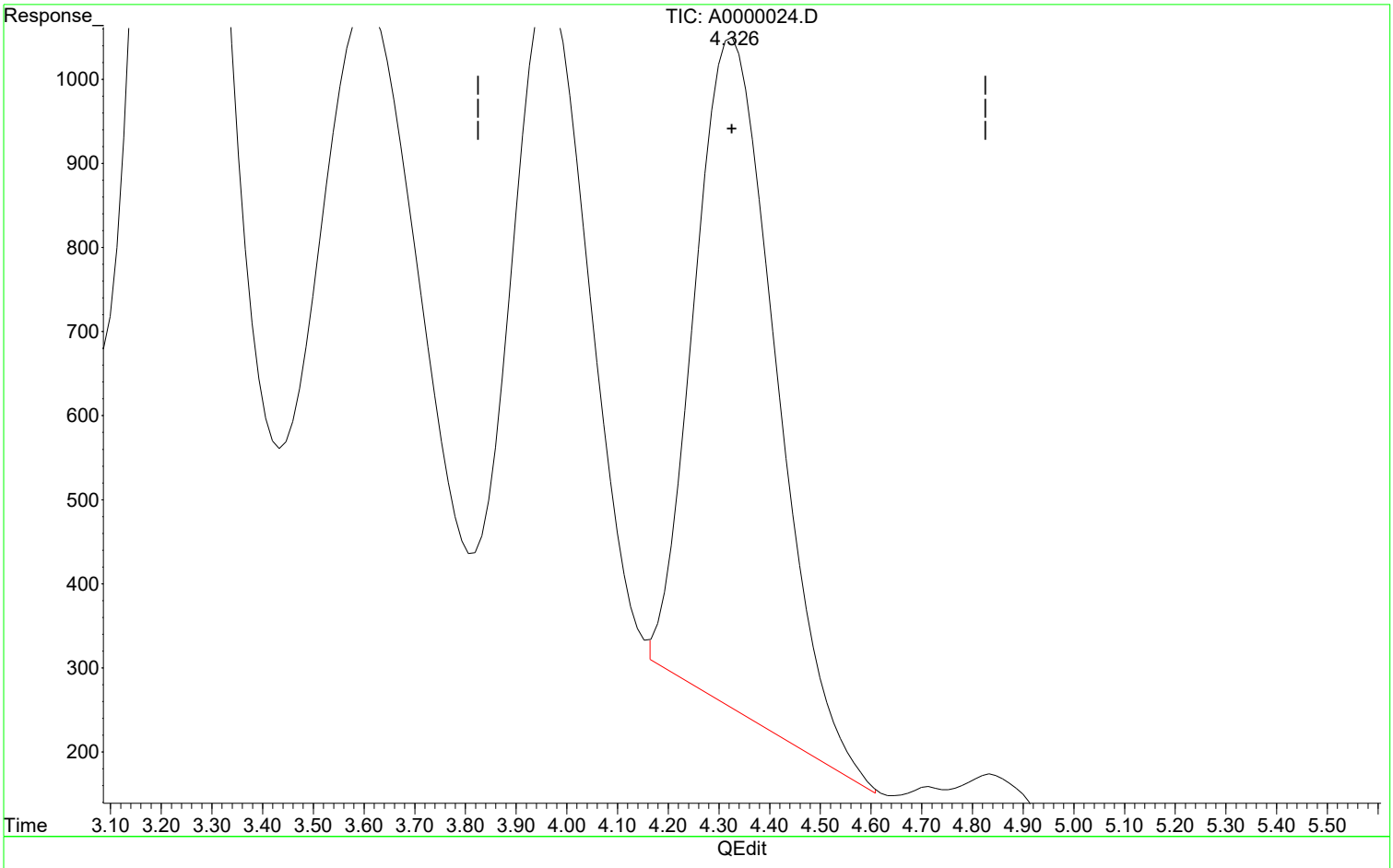
R.T.: 0.000 min
Exp R.T. : 20.402 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000024.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 14:18:55
Operator : AFelser
Sample : 0.2/2 STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:46:59 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.326min 1.671 ppm m

response 89561

Manual Integration:

After

Poor integration.

07/12/24

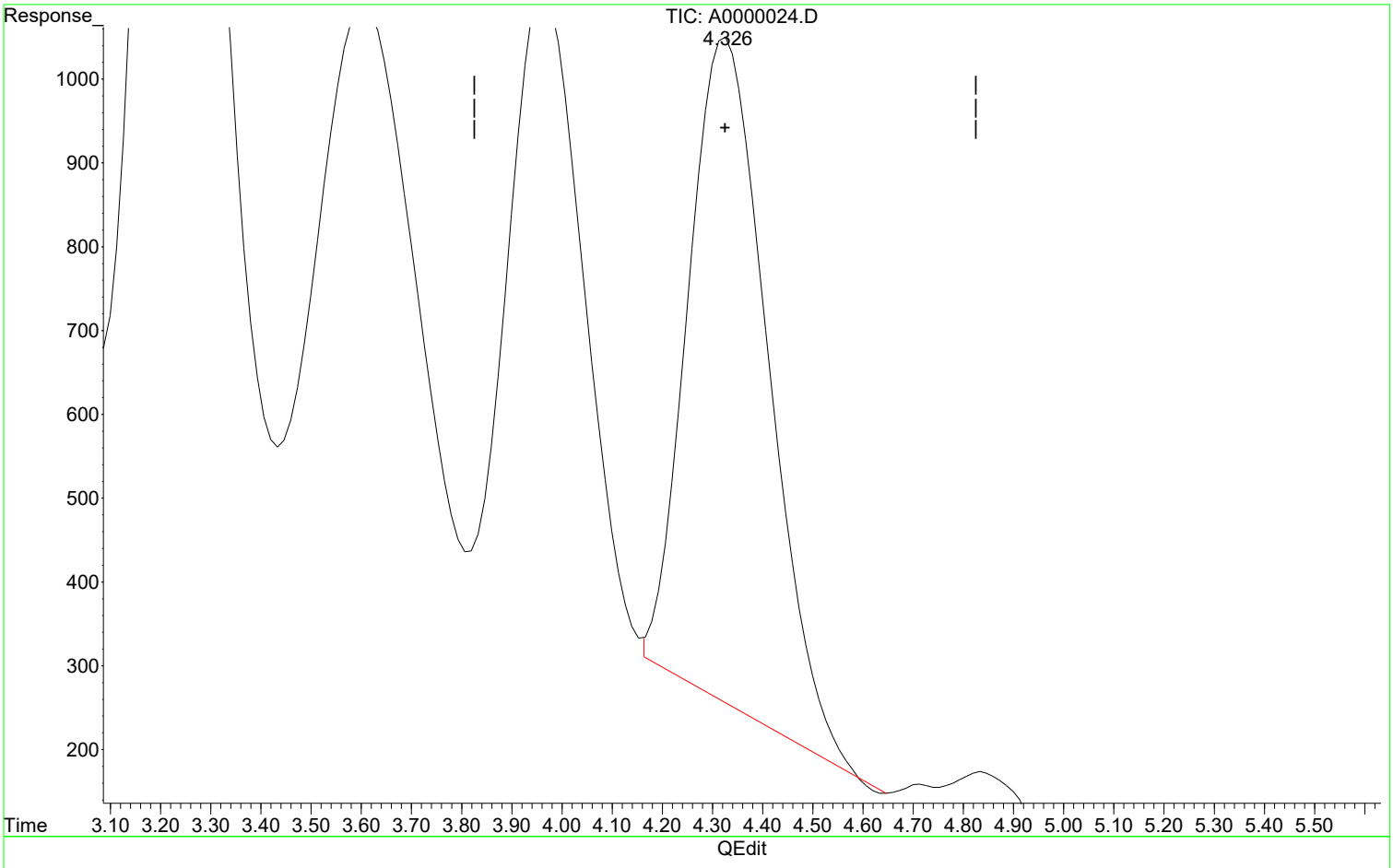
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000024.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 14:18:55
Operator : AFelser
Sample : 0.2/2 STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:46:59 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.327min 1.655 ppm

response 88699

Manual Integration:

Before

07/12/24

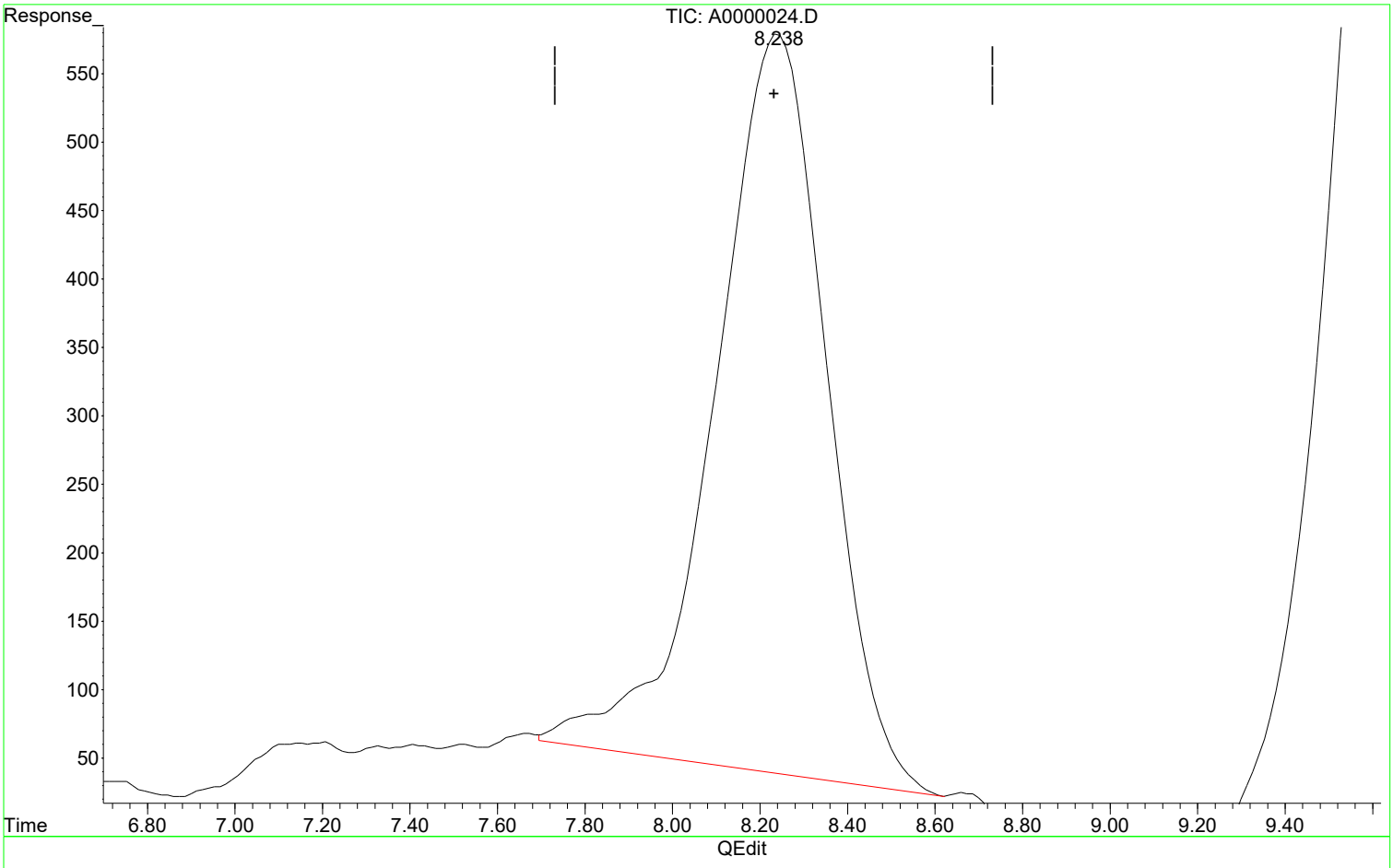
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000024.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 14:18:55
Operator : AFelser
Sample : 0.2/2 STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:46:59 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

8.238min 1.742 ppm m

response 96267

Manual Integration:

After

Poor integration.

07/12/24

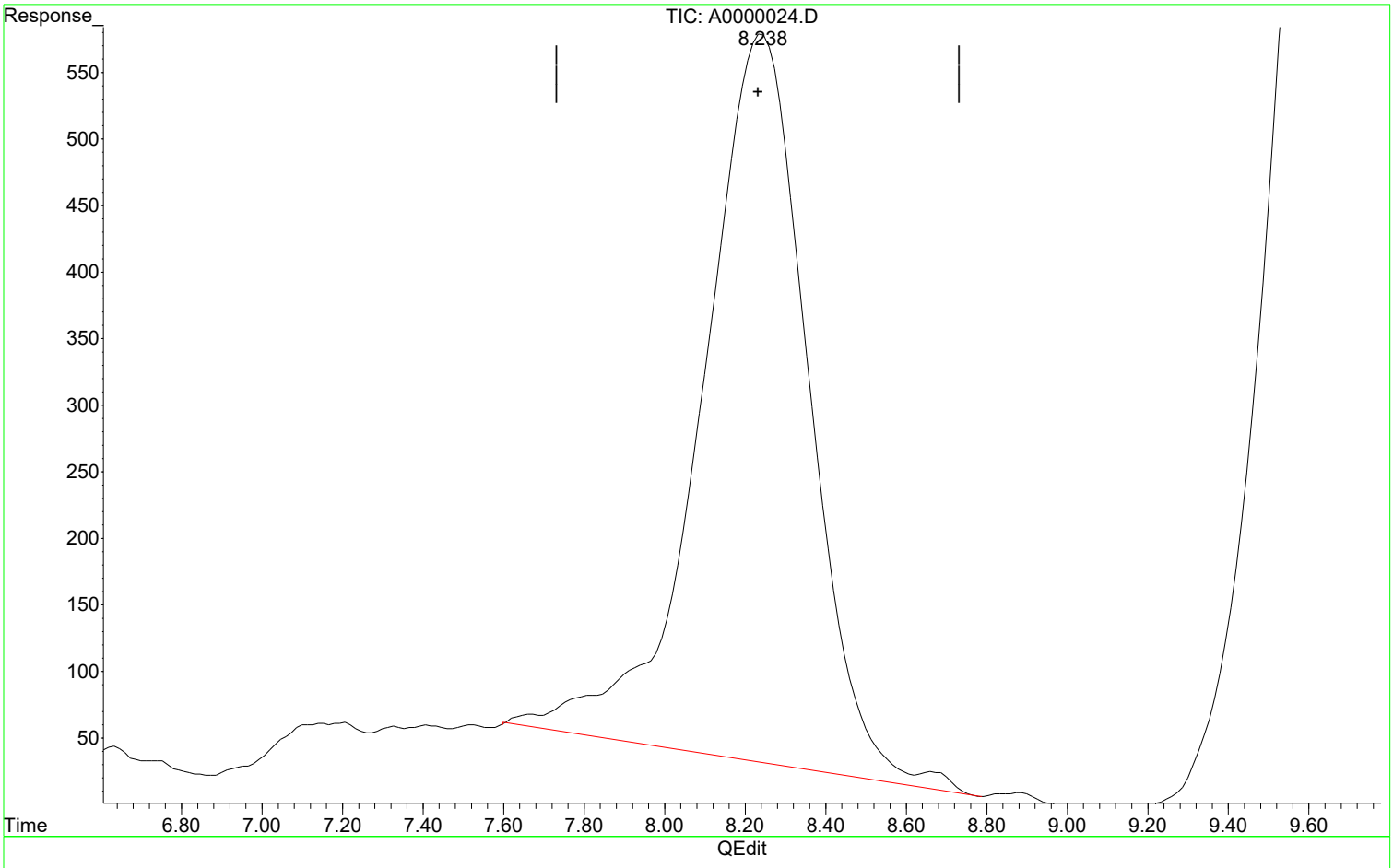
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000024.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 14:18:55
Operator : AFelser
Sample : 0.2/2 STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:46:59 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

8.243min 1.830 ppm

response 101136

Manual Integration:

Before

07/12/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000024.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 14:18:55
Operator : AFelser
Sample : 0.2/2 STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:46:59 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.235	151465	1.689	ppm	
2) T	Pyruvic acid	3.609	68886	0.131	ppm	
3) T	Lactic Acid	3.967	72927	1.505	ppm	
4) T	Acetic Acid	4.326	89561	1.671	ppm	m
5) T	Propionic Acid	8.238	96267	1.742	ppm	m
6) T	Butyric Acid	0.000	0	N.D.	ppm	

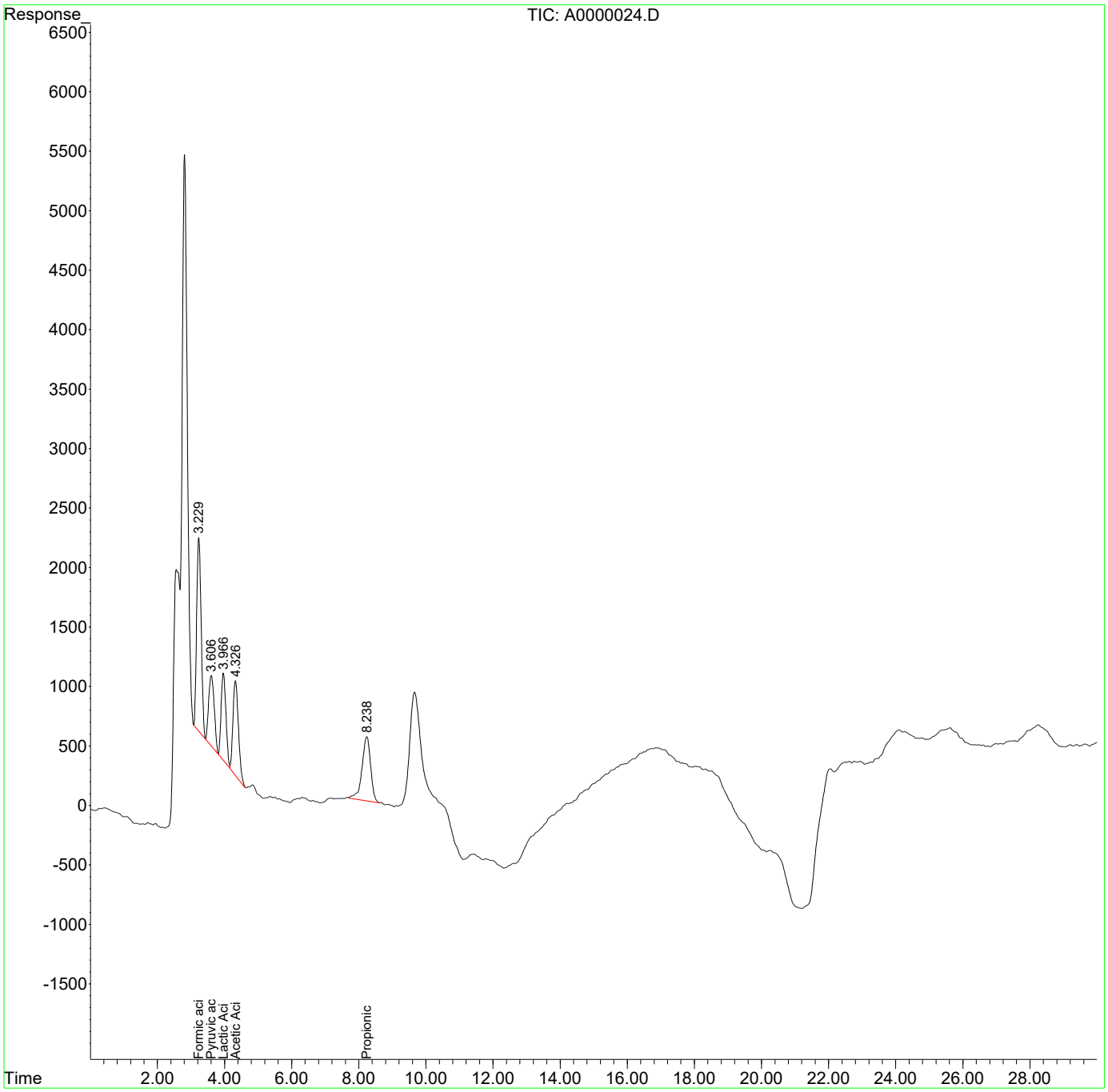
(f)=RT Delta > 1/2 Window (m)=manual int.

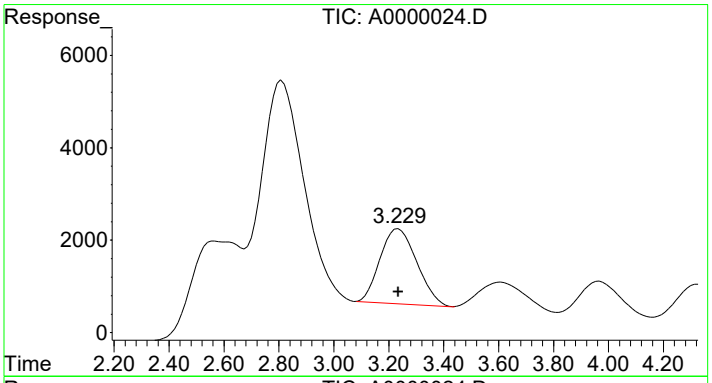
1st AF 07/15/24
2nd BA 07/16/24

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000024.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 14:18:55
Operator : AFelser
Sample : 0.2/2 STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:46:59 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

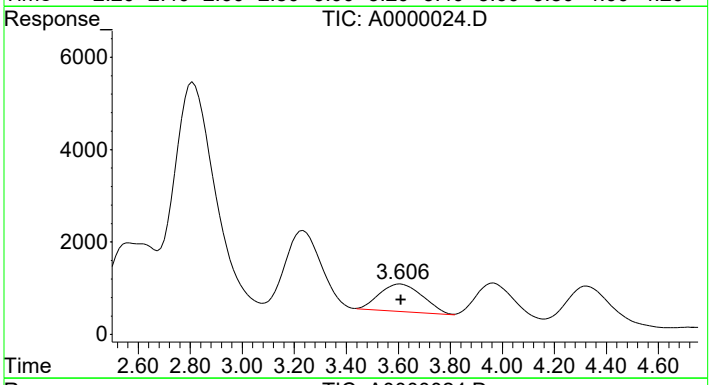
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





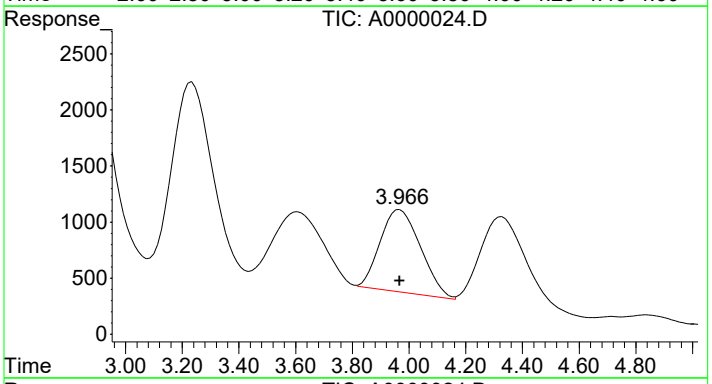
#1 Formic acid

R.T.: 3.235 min
Delta R.T.: 0.000 min
Response: 151465
Conc: 1.69 ppm



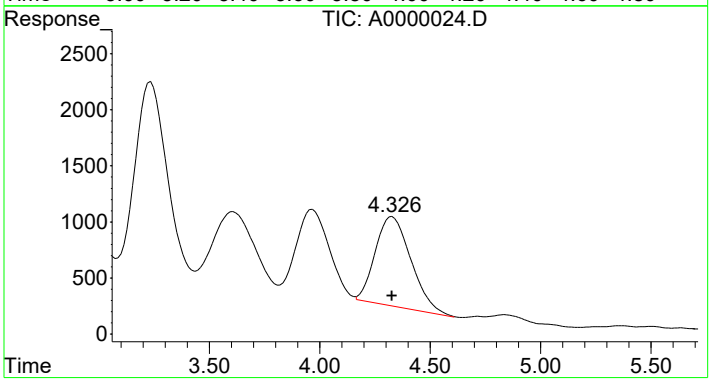
#2 Pyruvic acid

R.T.: 3.609 min
Delta R.T.: 0.000 min
Response: 68886
Conc: 0.13 ppm



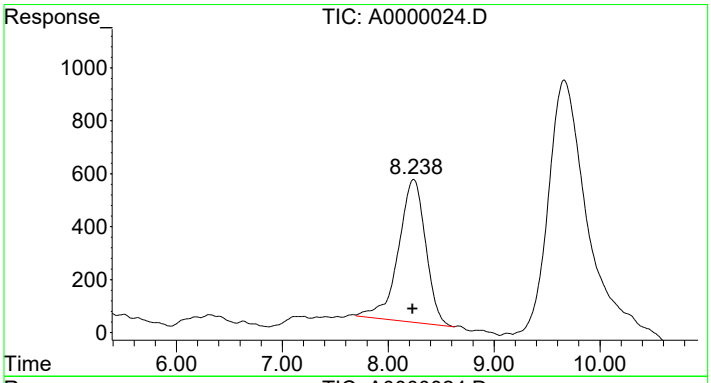
#3 Lactic Acid

R.T.: 3.967 min
Delta R.T.: 0.001 min
Response: 72927
Conc: 1.51 ppm



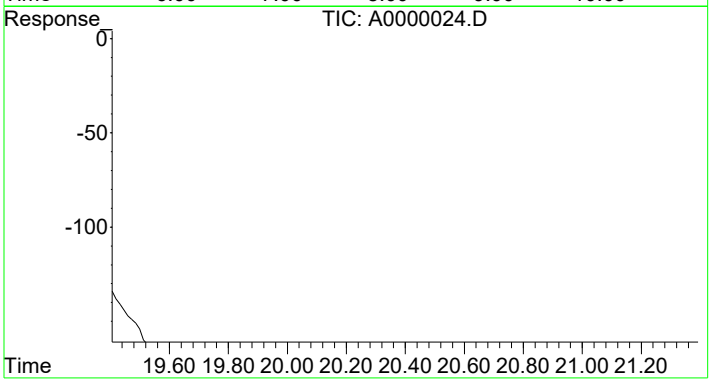
#4 Acetic Acid

R.T.: 4.326 min
Delta R.T.: 0.000 min
Response: 89561
Conc: 1.67 ppm m



#5 Propionic Acid

R.T.: 8.238 min
Delta R.T.: 0.006 min
Response: 96267
Conc: 1.74 ppm m



#6 Butyric Acid

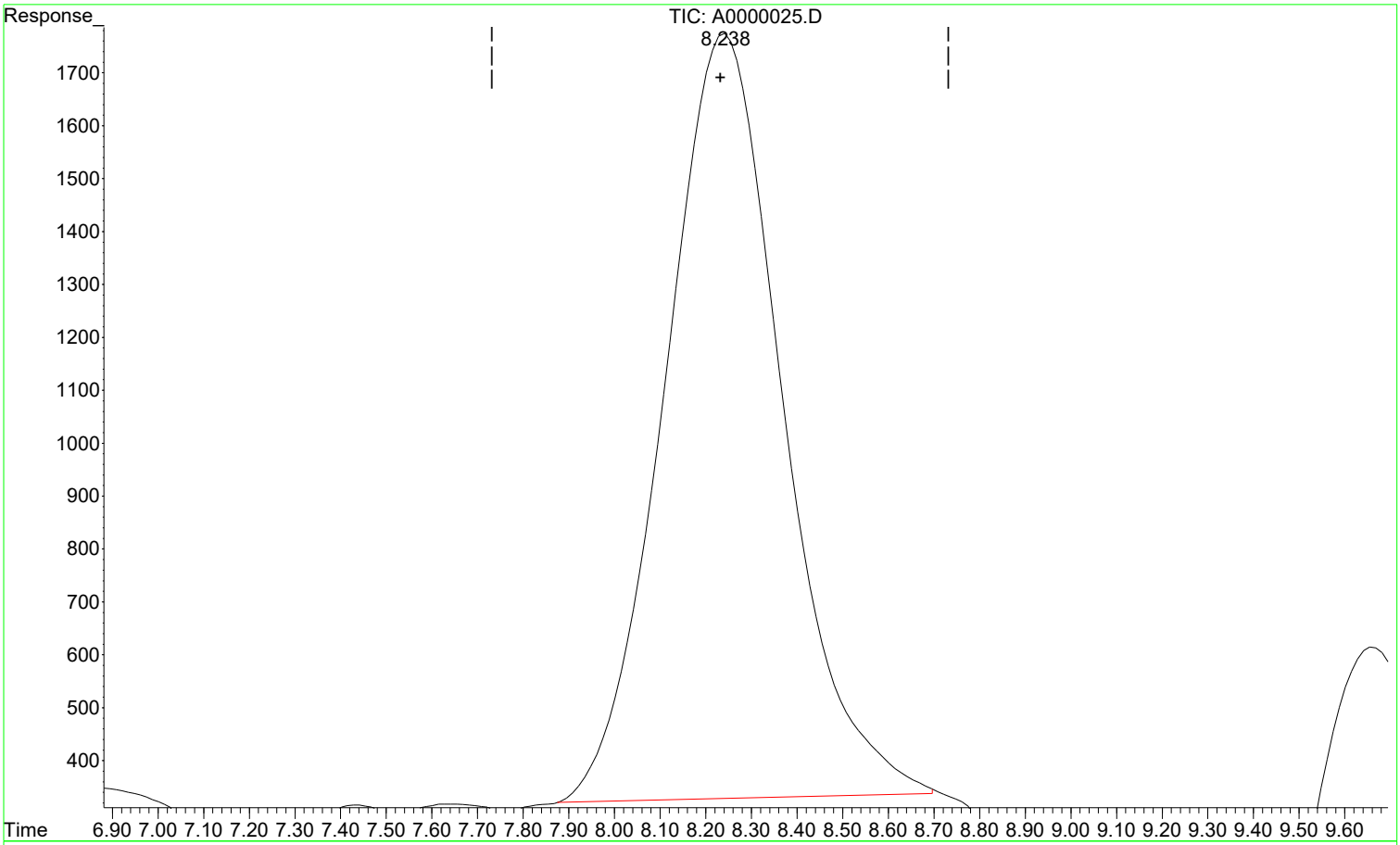
R.T.: 0.000 min
Exp R.T. : 20.402 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000025.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 14:50:41
Operator : AFelser
Sample : 0.5/5 STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:01 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



QEdit

(5) Propionic Acid (T)

8.238min 4.677 ppm m

response 258535

Manual Integration:

After

Poor integration.

07/12/24

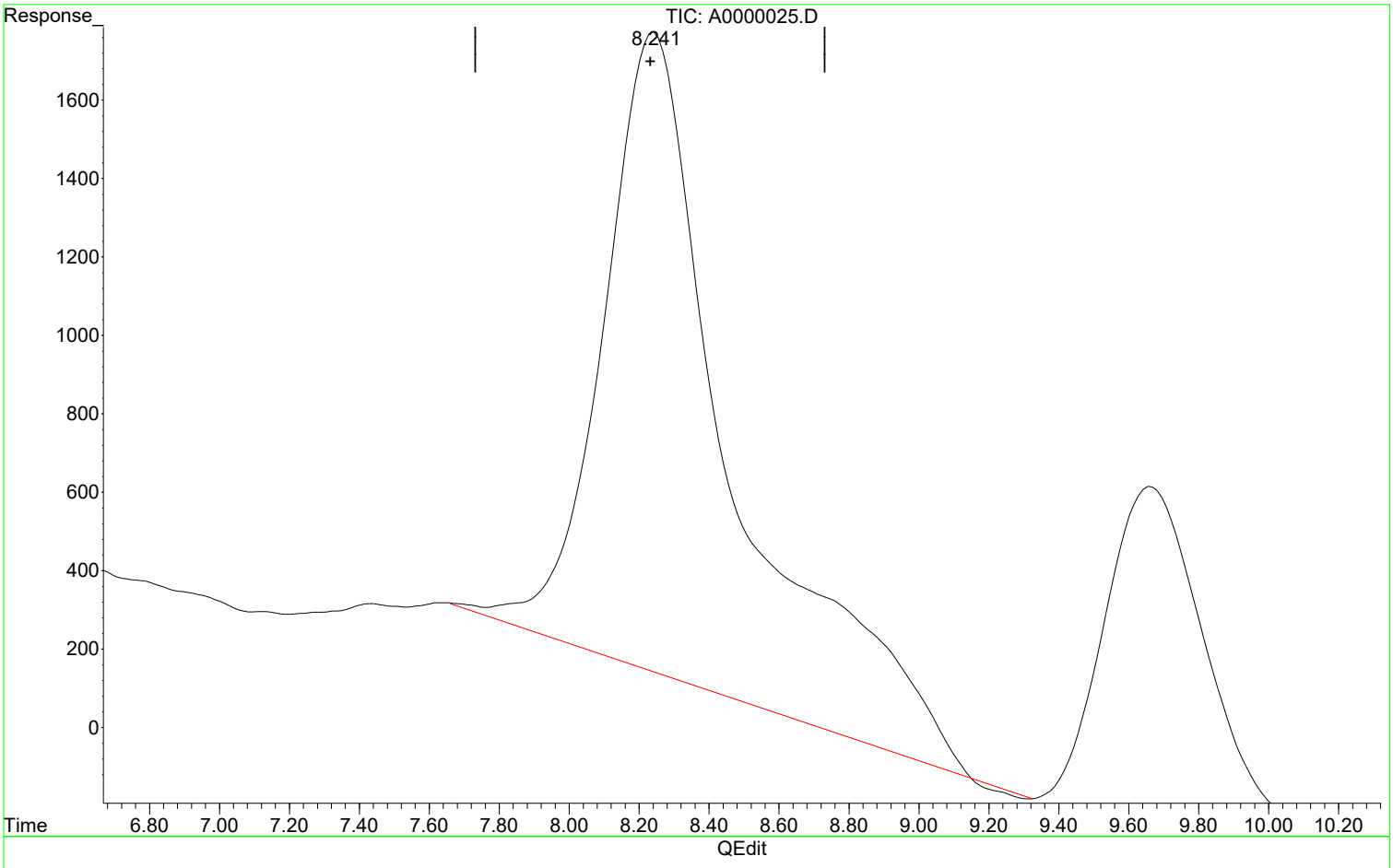
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000025.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 14:50:41
Operator : AFelser
Sample : 0.5/5 STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:01 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

8.244min 7.613 ppm

response 420797

Manual Integration:

Before

07/12/24

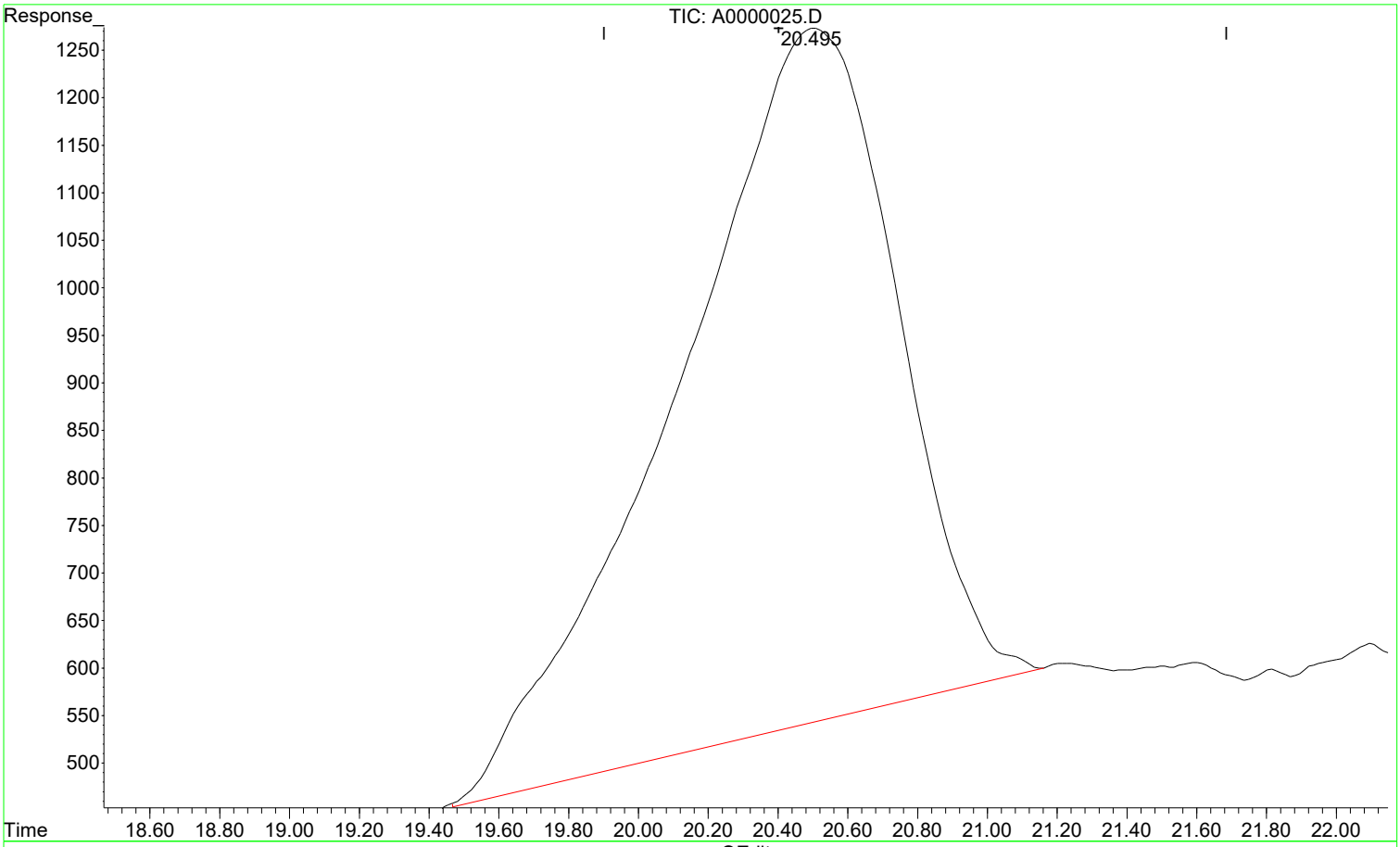
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000025.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 14:50:41
Operator : AFelser
Sample : 0.5/5 STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:01 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

20.495min 4.235 ppm m

response 320362

Manual Integration:

After

Poor integration.

07/12/24

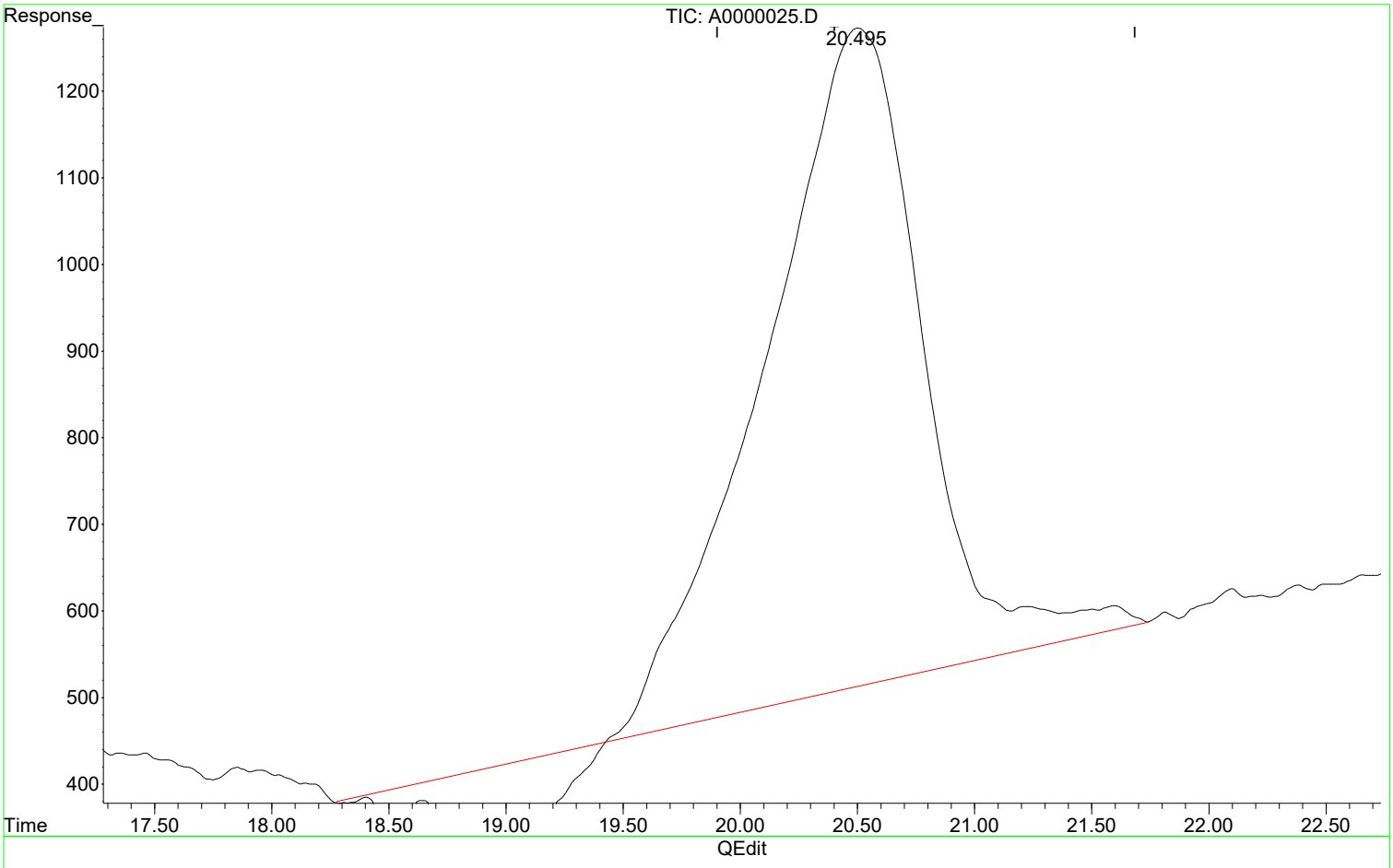
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000025.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 14:50:41
Operator : AFelser
Sample : 0.5/5 STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:01 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

20.509min 4.369 ppm

response 330488

Manual Integration:

Before

07/12/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000025.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 14:50:41
Operator : AFelser
Sample : 0.5/5 STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:01 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.235	408787	4.559	ppm	
2) T	Pyruvic acid	3.610	202849	0.386	ppm	
3) T	Lactic Acid	3.968	203291	4.196	ppm	
4) T	Acetic Acid	4.328	239755	4.473	ppm	
5) T	Propionic Acid	8.238	258535	4.677	ppm	m
6) T	Butyric Acid	20.495	320362	4.235	ppm	m

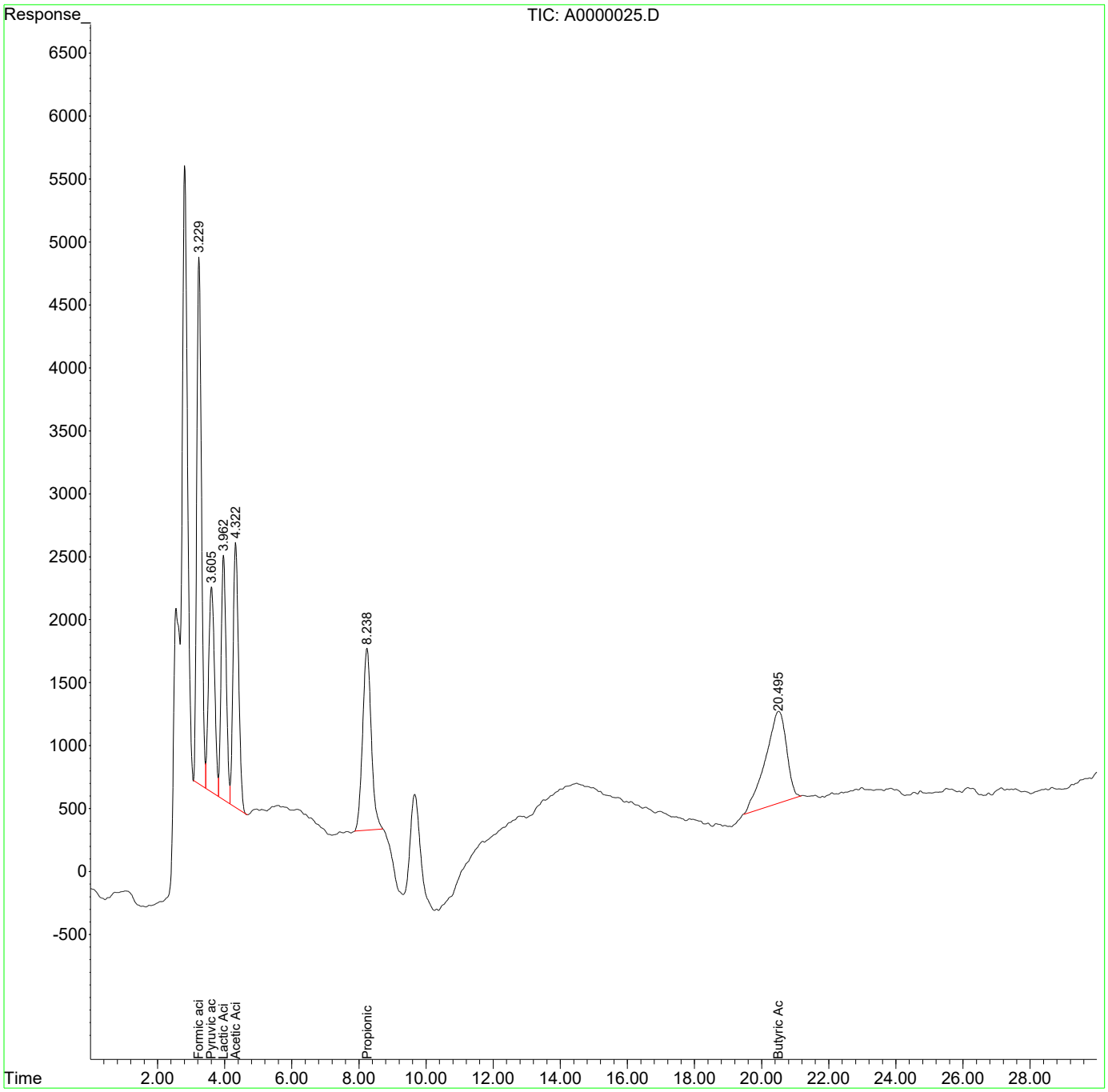
(f)=RT Delta > 1/2 Window (m)=manual int.

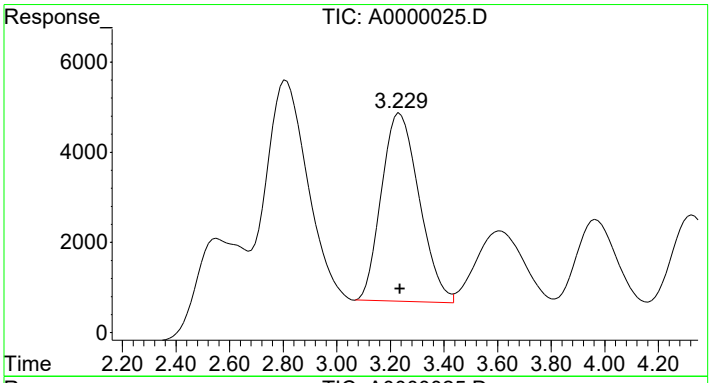
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000025.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 14:50:41
Operator : AFelser
Sample : 0.5/5 STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:01 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

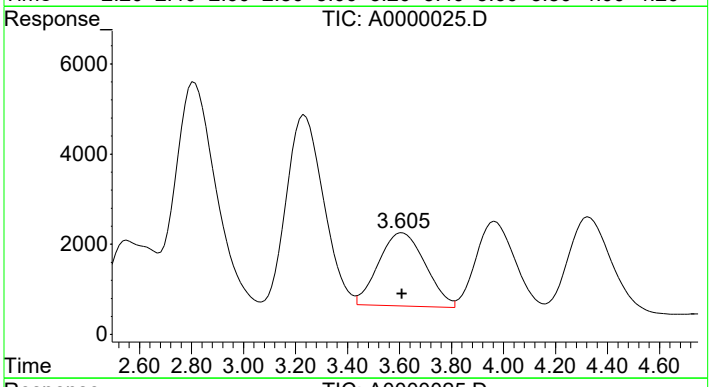
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





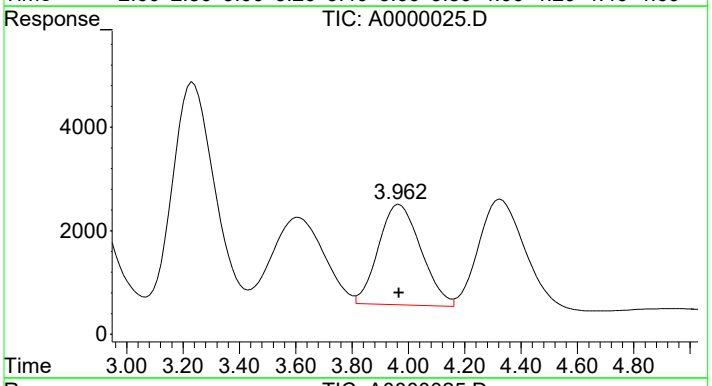
#1 Formic acid

R.T.: 3.235 min
Delta R.T.: 0.000 min
Response: 408787
Conc: 4.56 ppm



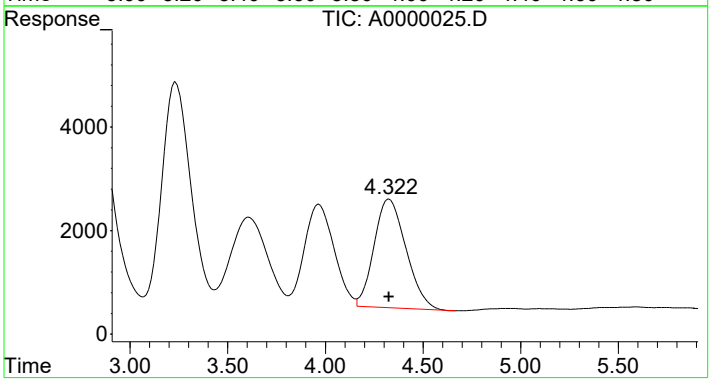
#2 Pyruvic acid

R.T.: 3.610 min
Delta R.T.: 0.001 min
Response: 202849
Conc: 0.39 ppm



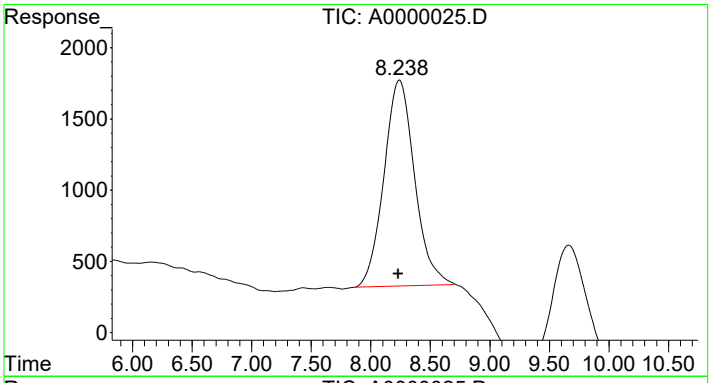
#3 Lactic Acid

R.T.: 3.968 min
Delta R.T.: 0.001 min
Response: 203291
Conc: 4.20 ppm



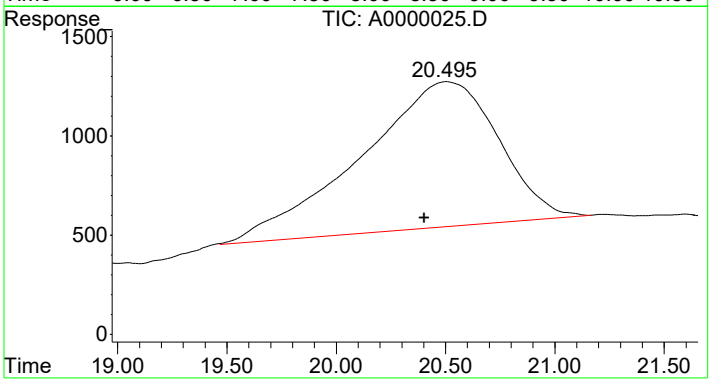
#4 Acetic Acid

R.T.: 4.328 min
Delta R.T.: 0.002 min
Response: 239755
Conc: 4.47 ppm



#5 Propionic Acid

R.T.: 8.238 min
Delta R.T.: 0.006 min
Response: 258535
Conc: 4.68 ppm m



#6 Butyric Acid

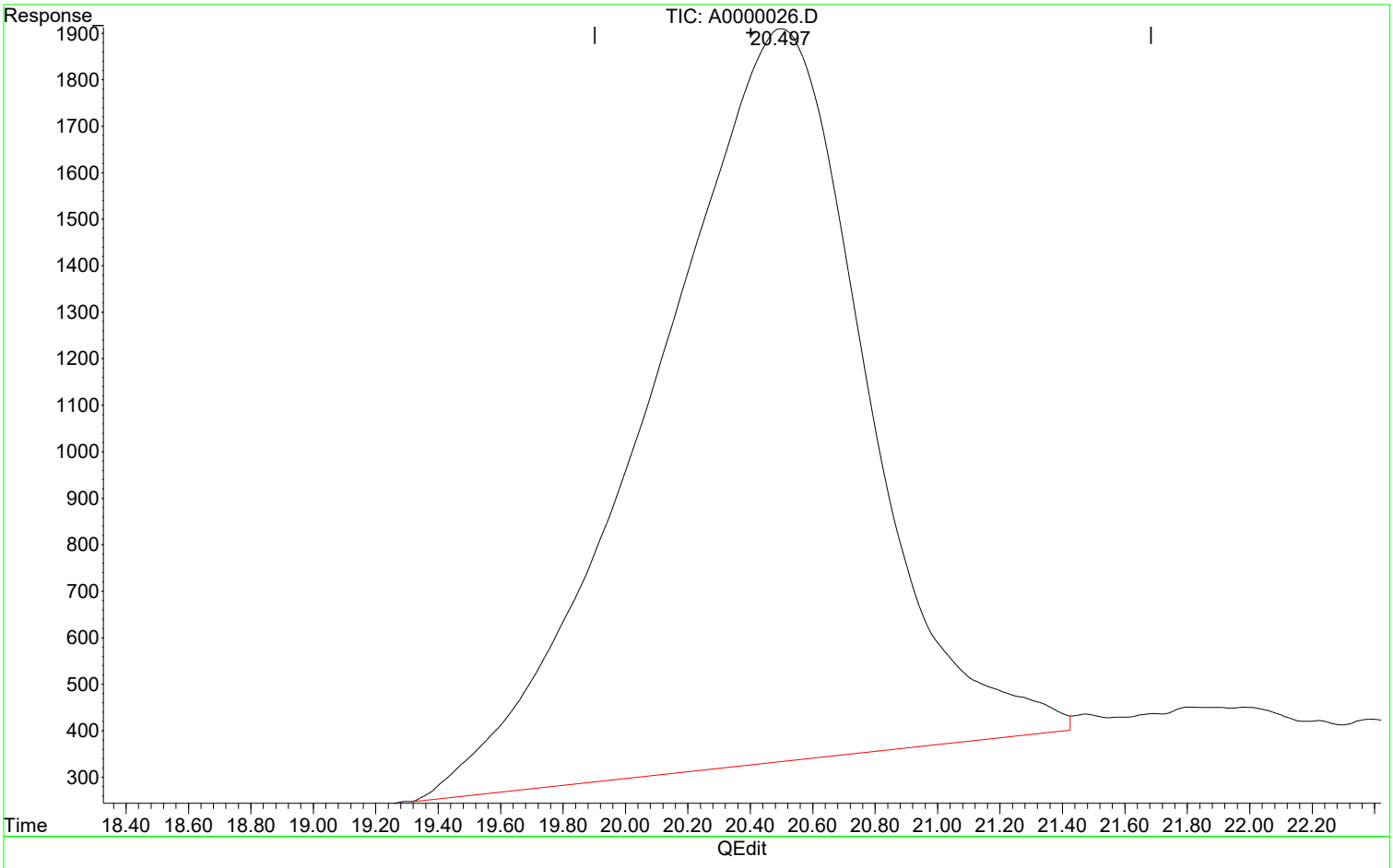
R.T.: 20.495 min
Delta R.T.: 0.092 min
Response: 320362
Conc: 4.24 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000026.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 15:22:27
Operator : AFelser
Sample : 1/10 STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:03 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

20.497min 9.876 ppm m

response 747022

Manual Integration:

After

Poor integration.

07/12/24

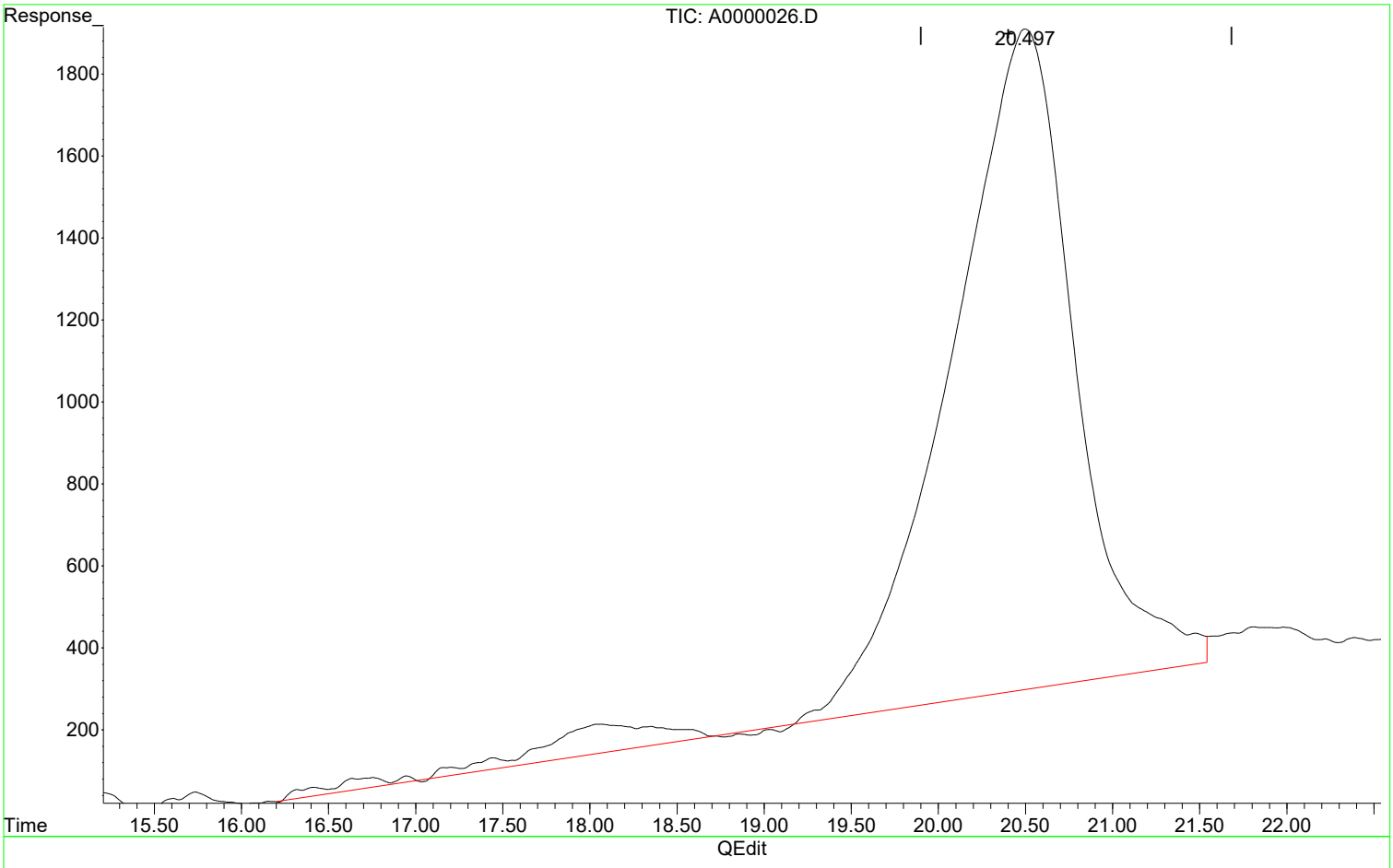
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000026.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 15:22:27
Operator : AFelser
Sample : 1/10 STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:03 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

20.505min 11.038 ppm

response 834924

Manual Integration:

Before

07/12/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000026.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 15:22:27
Operator : AFelser
Sample : 1/10 STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:03 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.236	861642	9.610	ppm	
2) T	Pyruvic acid	3.610	490269	0.932	ppm	
3) T	Lactic Acid	3.967	462770	9.553	ppm	
4) T	Acetic Acid	4.327	515837	9.623	ppm	
5) T	Propionic Acid	8.242	539490	9.761	ppm	
6) T	Butyric Acid	20.497	747022	9.876	ppm	m

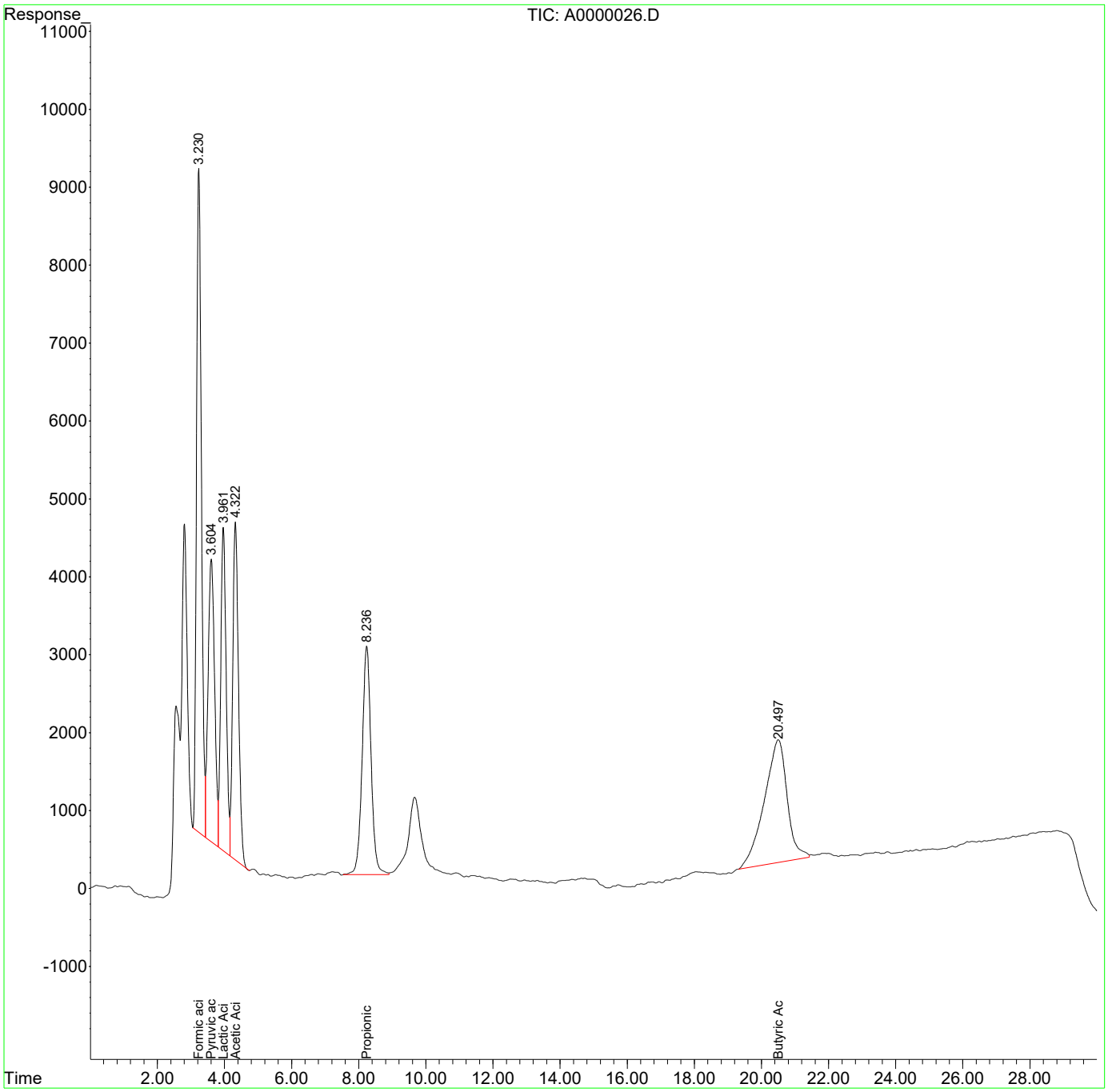
(f)=RT Delta > 1/2 Window (m)=manual int.

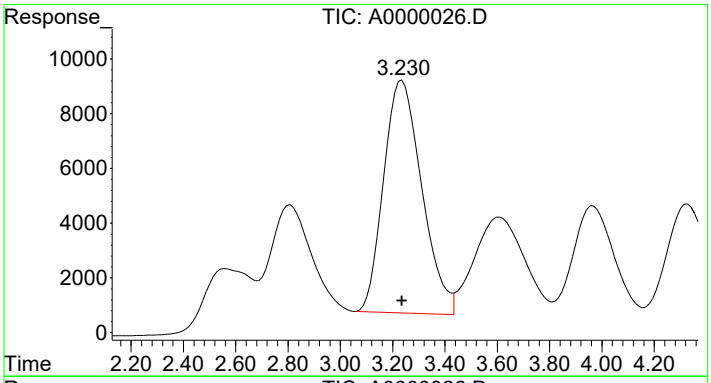
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000026.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 15:22:27
Operator : AFelser
Sample : 1/10 STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:03 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

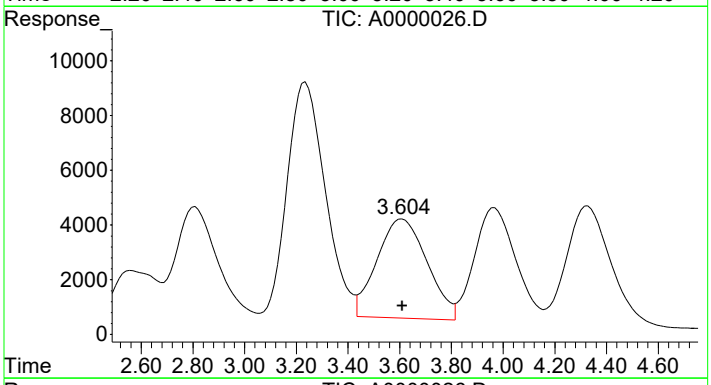
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





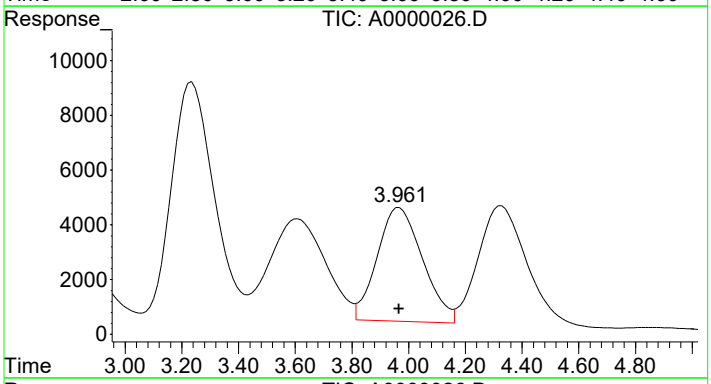
#1 Formic acid

R.T.: 3.236 min
Delta R.T.: 0.000 min
Response: 861642
Conc: 9.61 ppm



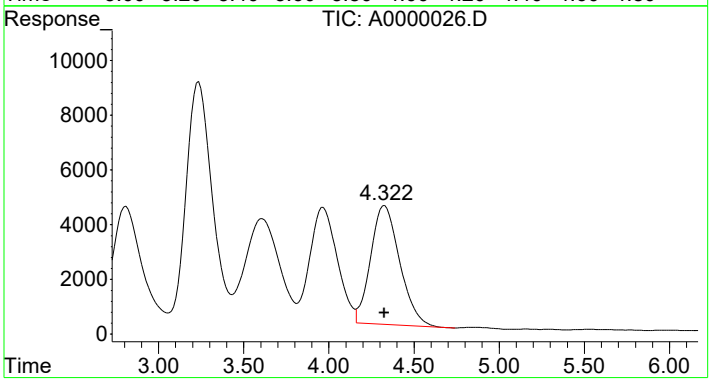
#2 Pyruvic acid

R.T.: 3.610 min
Delta R.T.: 0.000 min
Response: 490269
Conc: 0.93 ppm



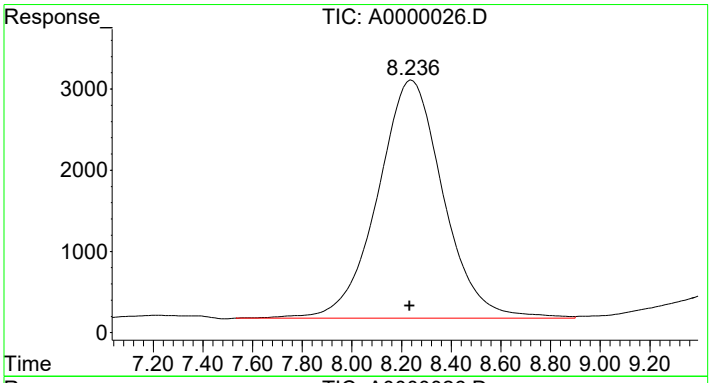
#3 Lactic Acid

R.T.: 3.967 min
Delta R.T.: 0.000 min
Response: 462770
Conc: 9.55 ppm



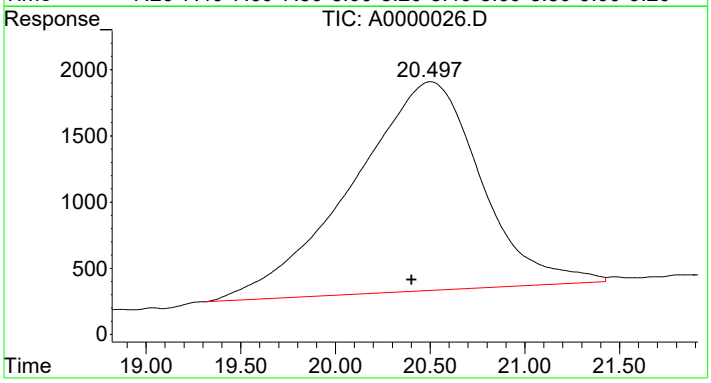
#4 Acetic Acid

R.T.: 4.327 min
Delta R.T.: 0.002 min
Response: 515837
Conc: 9.62 ppm



#5 Propionic Acid

R.T.: 8.242 min
Delta R.T.: 0.010 min
Response: 539490
Conc: 9.76 ppm



#6 Butyric Acid

R.T.: 20.497 min
Delta R.T.: 0.095 min
Response: 747022
Conc: 9.88 ppm m

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000027.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 15:54:12
Operator : AFelser
Sample : 2/20 STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:05 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc Units
Target Compounds				
1) t	Formic acid	3.236	1842957	20.554 ppm
2) T	Pyruvic acid	3.610	1083068	2.059 ppm
3) T	Lactic Acid	3.967	1007682	20.801 ppm
4) T	Acetic Acid	4.327	1107944	20.669 ppm
5) T	Propionic Acid	8.241	1093181	19.778 ppm
6) T	Butyric Acid	20.457	1468654	19.416 ppm

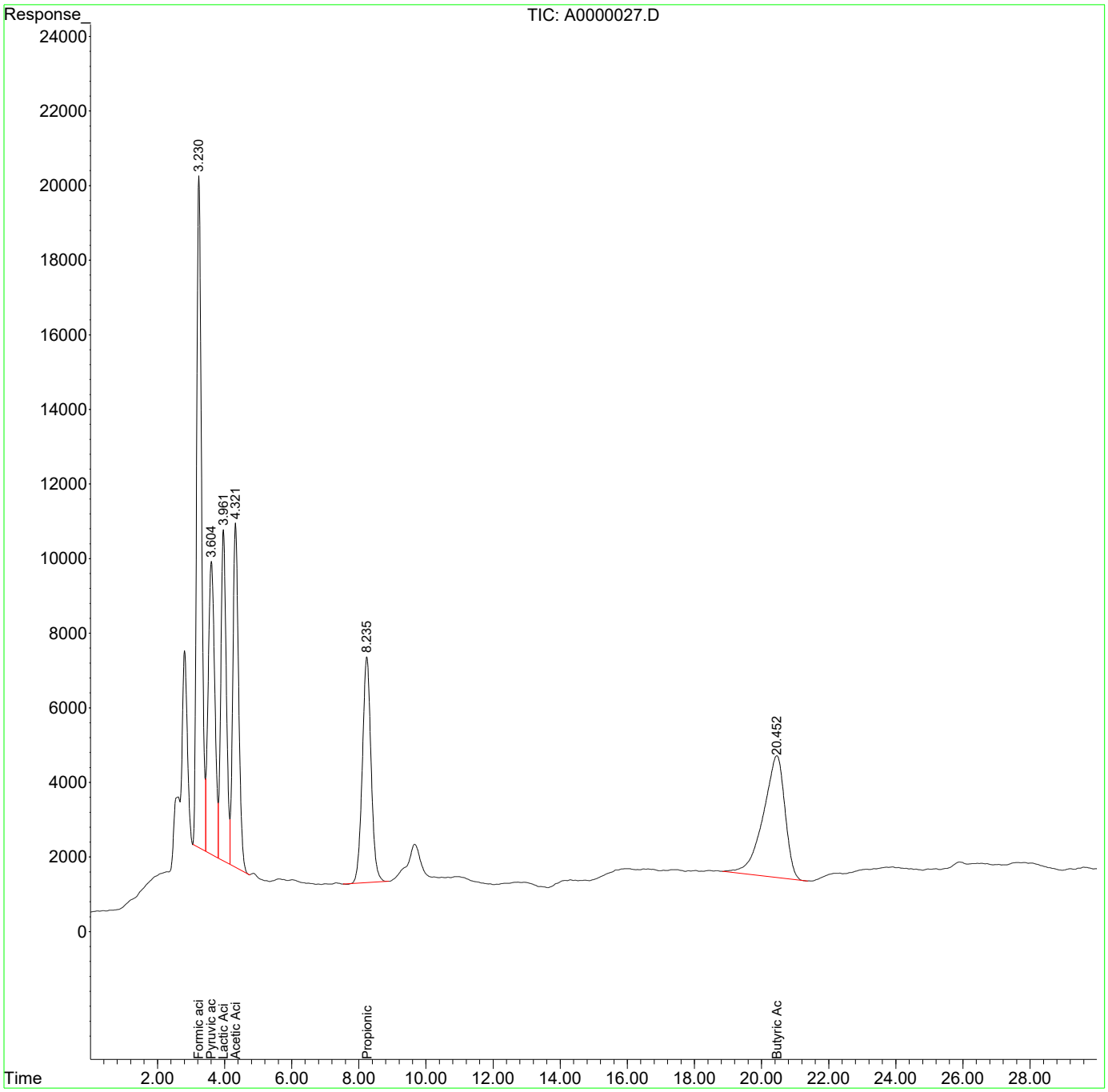
(f)=RT Delta > 1/2 Window (m)=manual int.

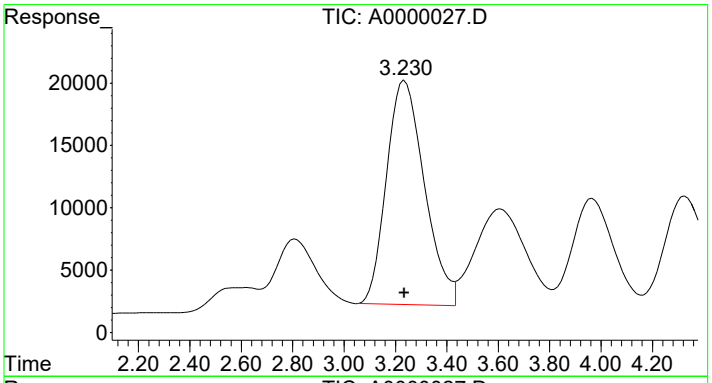
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000027.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 15:54:12
Operator : AFelser
Sample : 2/20 STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:05 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

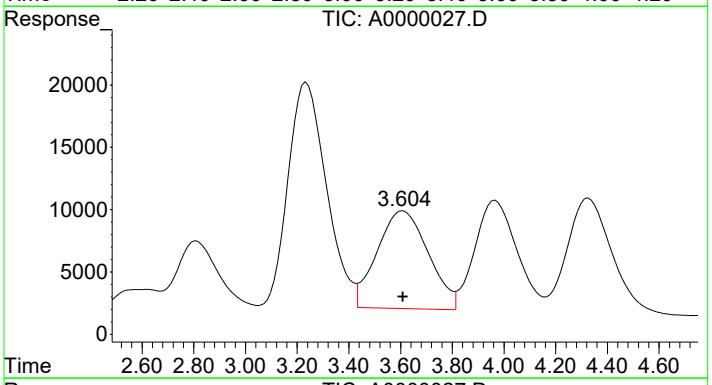
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





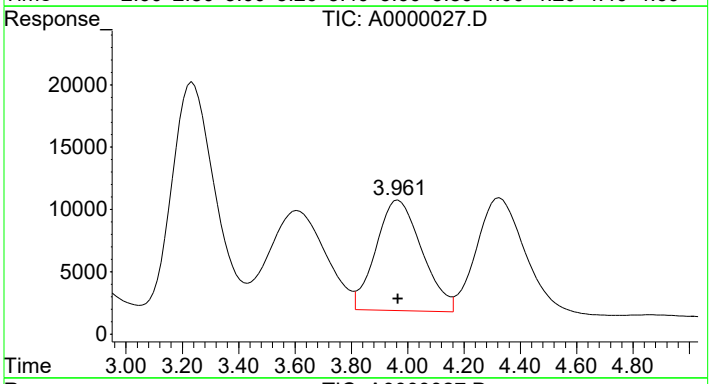
#1 Formic acid

R.T.: 3.236 min
Delta R.T.: 0.000 min
Response: 1842957
Conc: 20.55 ppm



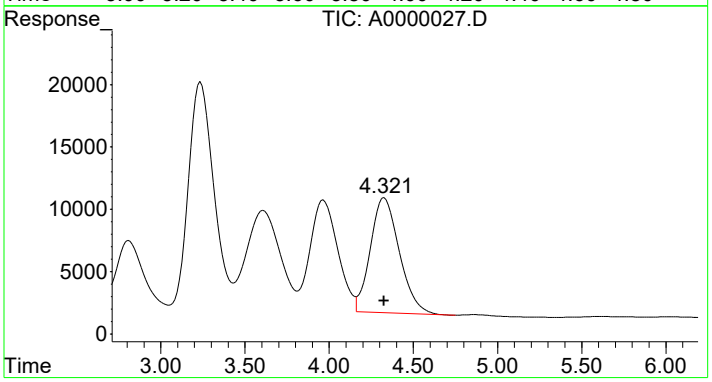
#2 Pyruvic acid

R.T.: 3.610 min
Delta R.T.: 0.000 min
Response: 1083068
Conc: 2.06 ppm



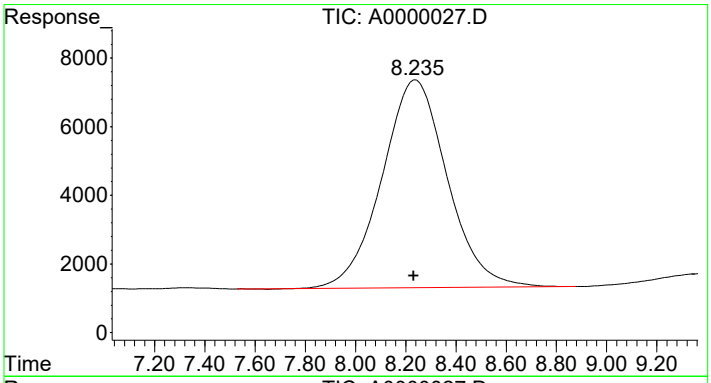
#3 Lactic Acid

R.T.: 3.967 min
Delta R.T.: 0.000 min
Response: 1007682
Conc: 20.80 ppm



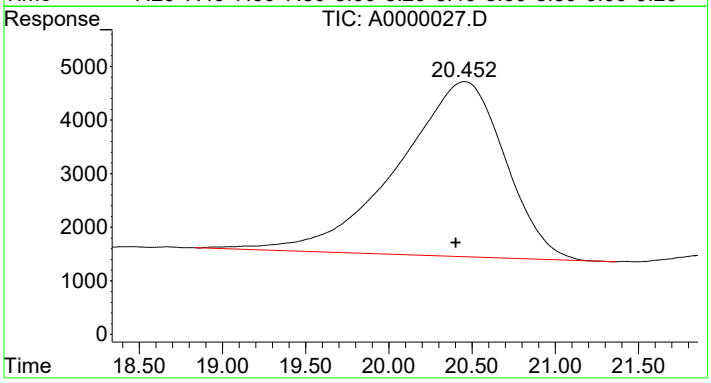
#4 Acetic Acid

R.T.: 4.327 min
Delta R.T.: 0.001 min
Response: 1107944
Conc: 20.67 ppm



#5 Propionic Acid

R.T.: 8.241 min
Delta R.T.: 0.009 min
Response: 1093181
Conc: 19.78 ppm



#6 Butyric Acid

R.T.: 20.457 min
Delta R.T.: 0.055 min
Response: 1468654
Conc: 19.42 ppm

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000028.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 16:25:59
Operator : AFelser
Sample : 5/50 STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:46:28 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:45:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc Units
Target Compounds				
1) t	Formic acid	3.235	4483170	48.227 ppm
2) T	Pyruvic acid	3.609	2629936	4.781 ppm
3) T	Lactic Acid	3.966	2422164	45.082 ppm
4) T	Acetic Acid	4.326	2680177	46.949 ppm
5) T	Propionic Acid	8.232	2763622	52.179 ppm
6) T	Butyric Acid	20.402	3782057	50.798 ppm

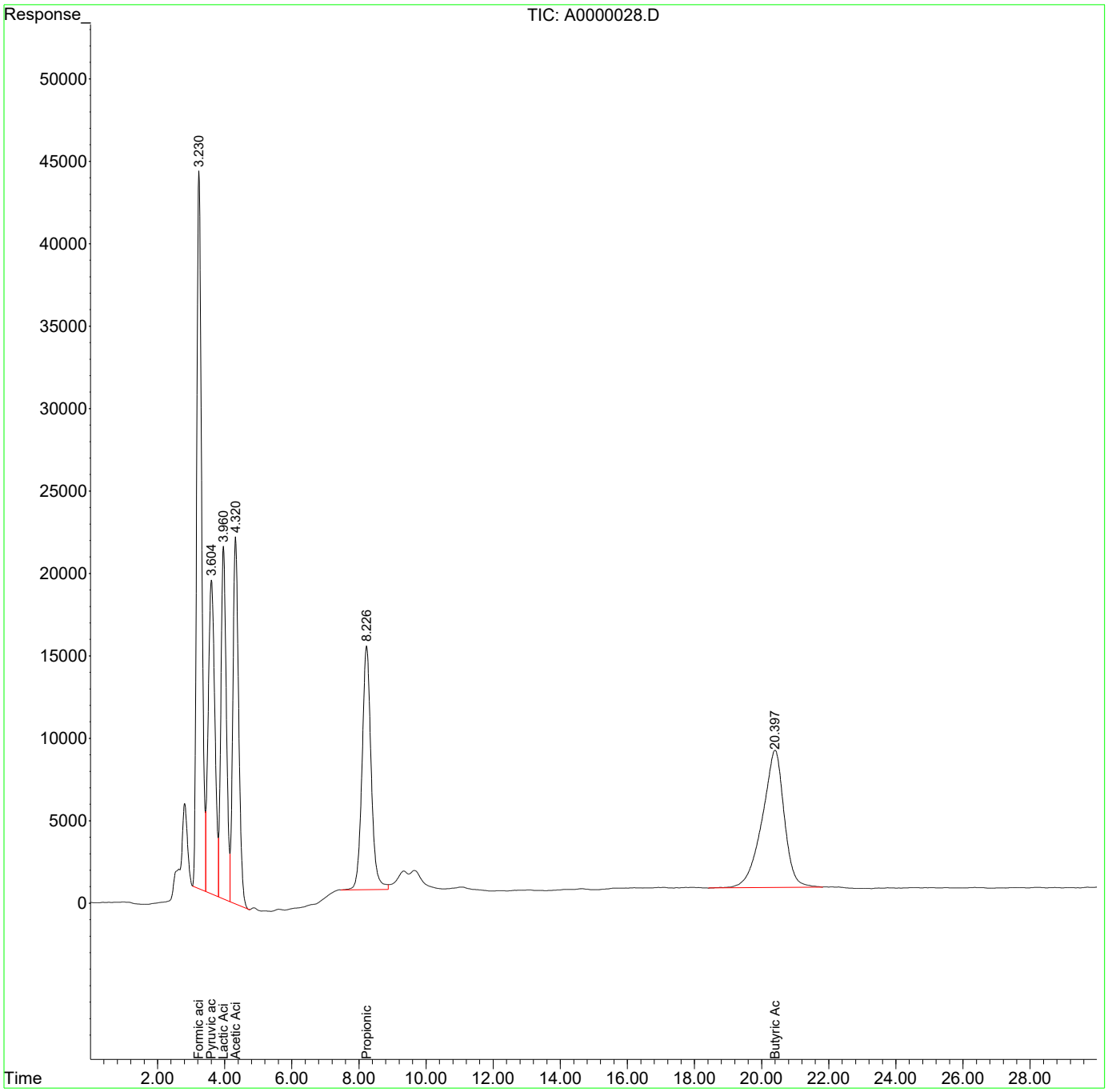
(f)=RT Delta > 1/2 Window (m)=manual int.

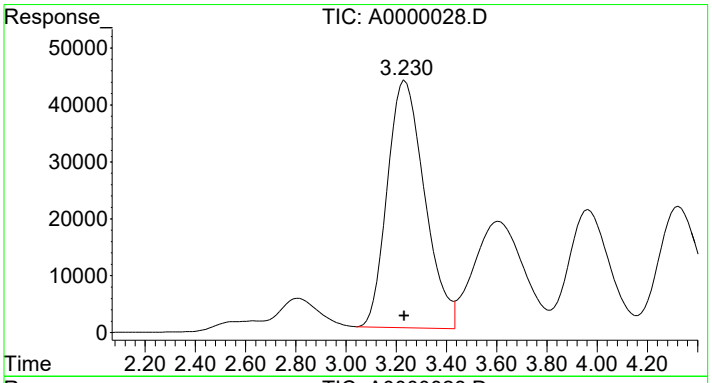
1st AF 07/15/24
2nd BA 07/16/24

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000028.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 16:25:59
Operator : AFelser
Sample : 5/50 STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:46:28 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:45:23 2024
Response via : Initial Calibration
Integrator: ChemStation

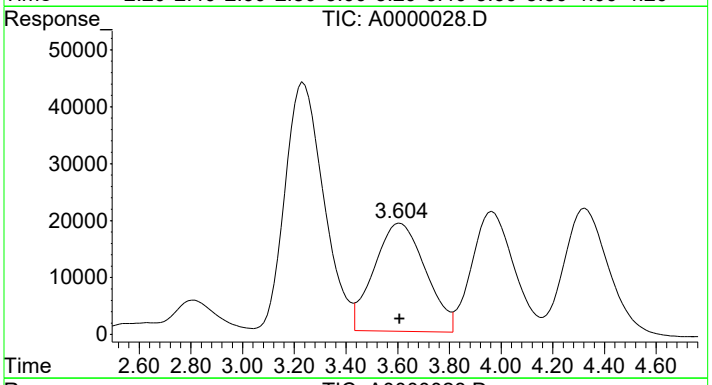
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





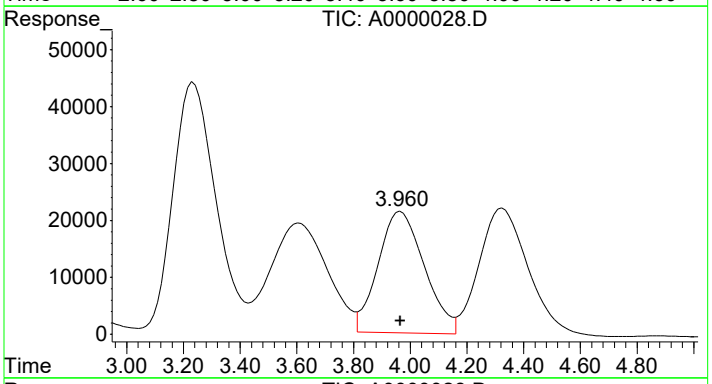
#1 Formic acid

R.T.: 3.235 min
Delta R.T.: 0.002 min
Response: 4483170
Conc: 48.23 ppm



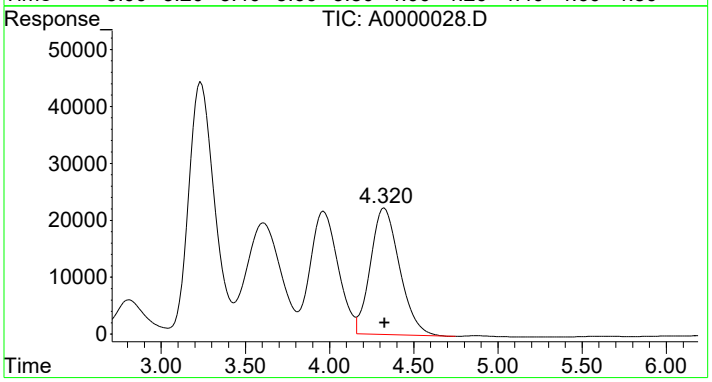
#2 Pyruvic acid

R.T.: 3.609 min
Delta R.T.: 0.002 min
Response: 2629936
Conc: 4.78 ppm



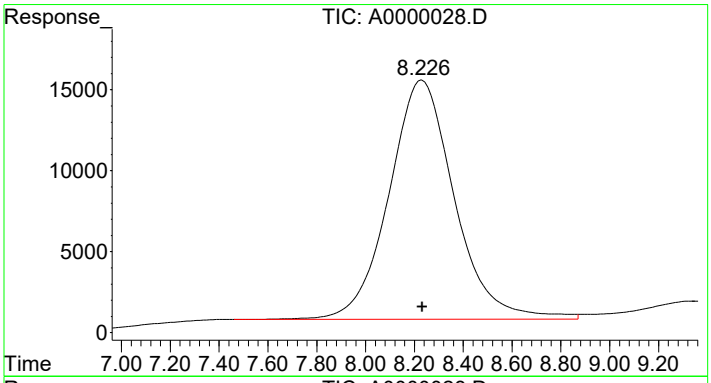
#3 Lactic Acid

R.T.: 3.966 min
Delta R.T.: 0.002 min
Response: 2422164
Conc: 45.08 ppm



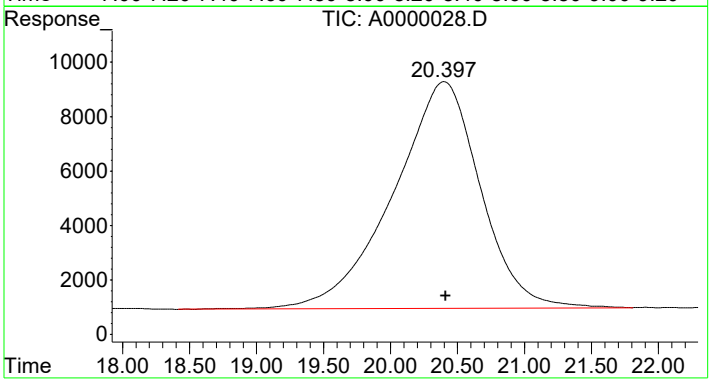
#4 Acetic Acid

R.T.: 4.326 min
Delta R.T.: 0.000 min
Response: 2680177
Conc: 46.95 ppm



#5 Propionic Acid

R.T.: 8.232 min
Delta R.T.: 0.000 min
Response: 2763622
Conc: 52.18 ppm



#6 Butyric Acid

R.T.: 20.402 min
Delta R.T.: -0.010 min
Response: 3782057
Conc: 50.80 ppm

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000029.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 16:57:44
Operator : AFelser
Sample : 10/100 STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:07 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc Units
Target Compounds				
1) t	Formic acid	3.238	9758278	108.832 ppm
2) T	Pyruvic acid	3.612	5920842	11.257 ppm
3) T	Lactic Acid	3.969	5411630	111.711 ppm
4) T	Acetic Acid	4.328	5898168	110.033 ppm
5) T	Propionic Acid	8.221	5670552	102.593 ppm
6) T	Butyric Acid	20.291	8100481	107.091 ppm

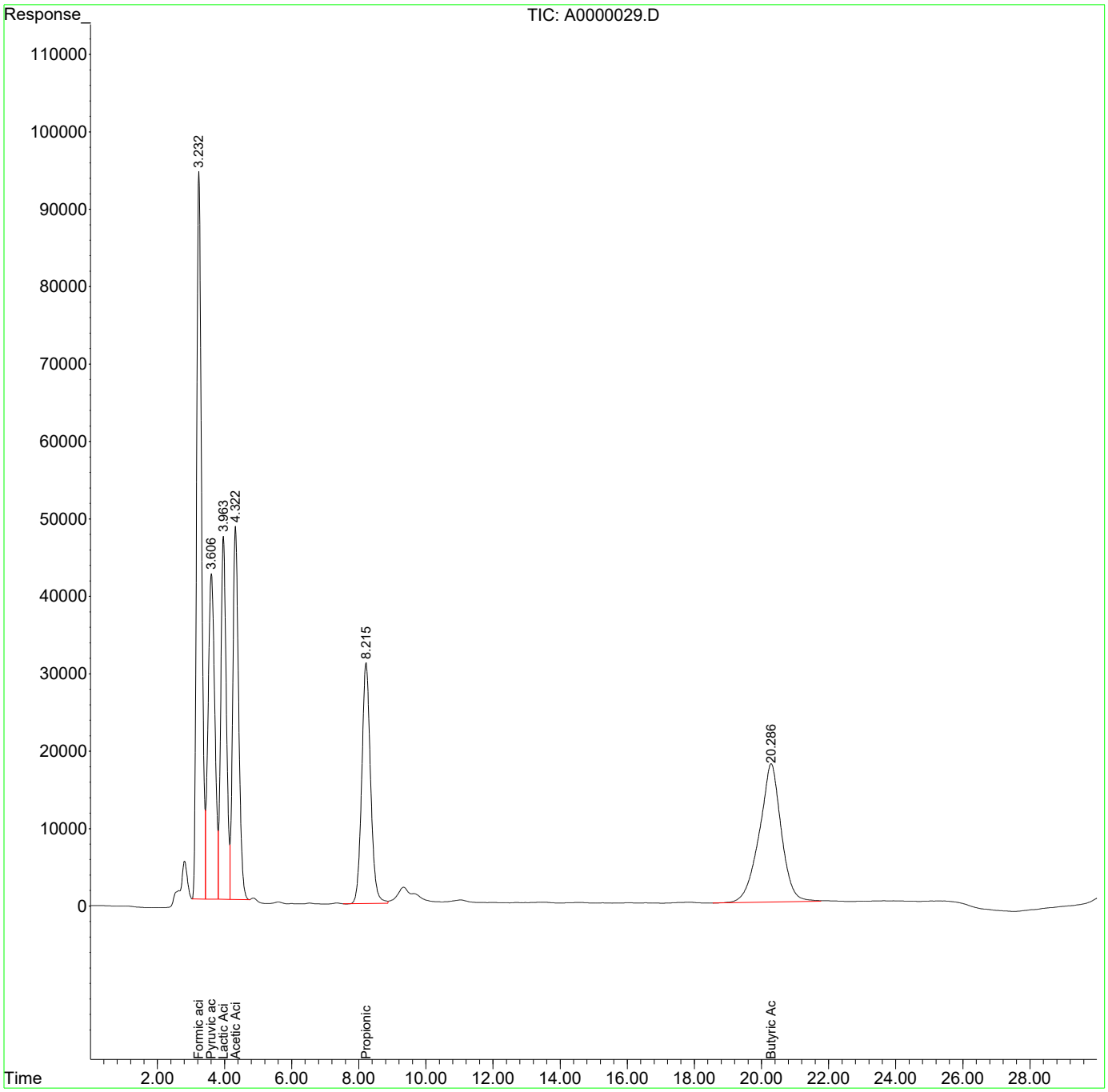
(f)=RT Delta > 1/2 Window (m)=manual int.

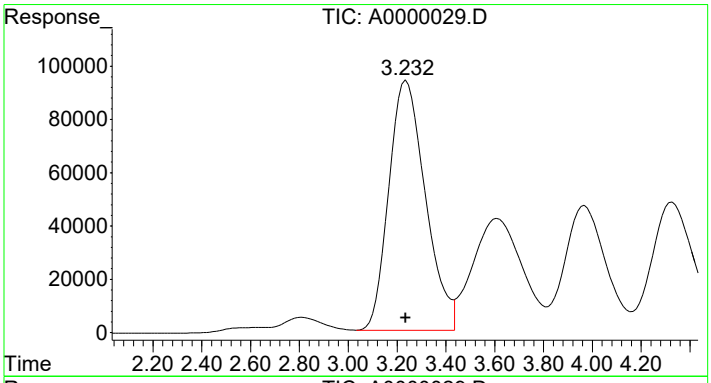
1st AF 07/15/24
2nd BA 07/16/24

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000029.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 16:57:44
Operator : AFelser
Sample : 10/100 STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:07 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

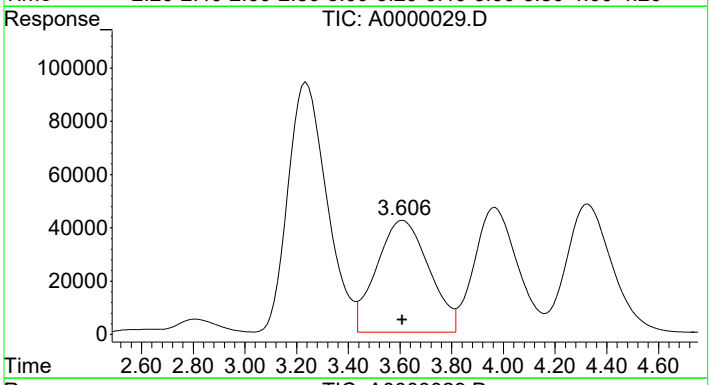
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





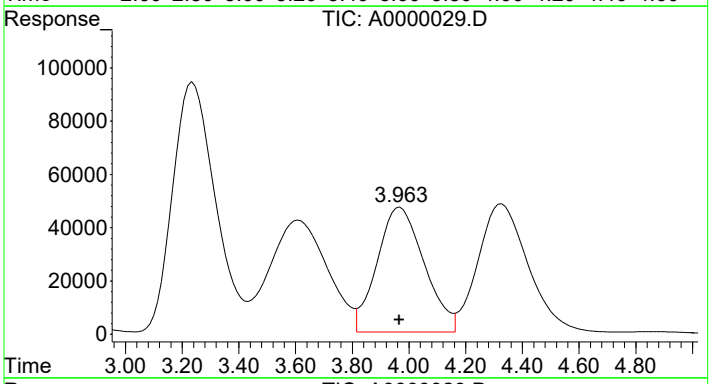
#1 Formic acid

R.T.: 3.238 min
Delta R.T.: 0.003 min
Response: 9758278
Conc: 108.83 ppm



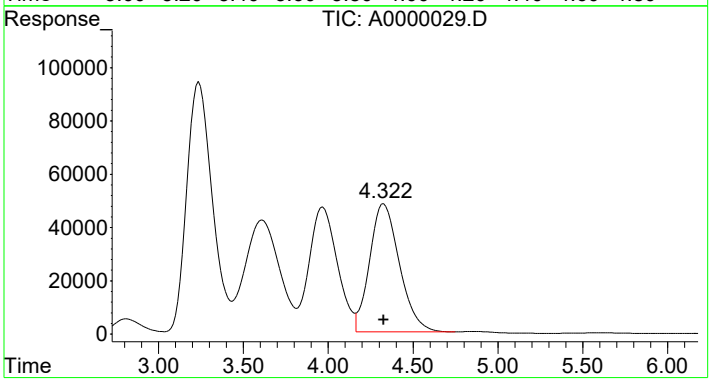
#2 Pyruvic acid

R.T.: 3.612 min
Delta R.T.: 0.003 min
Response: 5920842
Conc: 11.26 ppm



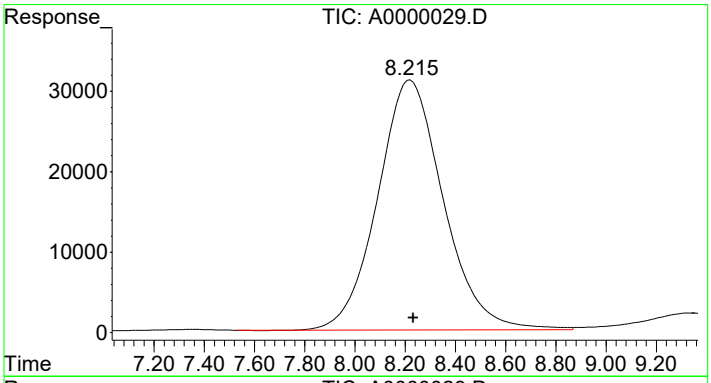
#3 Lactic Acid

R.T.: 3.969 min
Delta R.T.: 0.002 min
Response: 5411630
Conc: 111.71 ppm



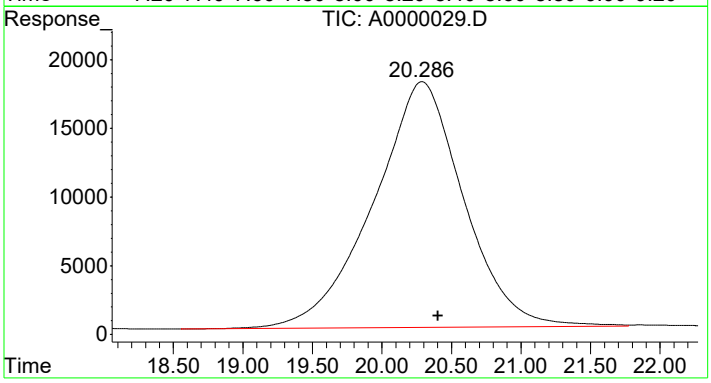
#4 Acetic Acid

R.T.: 4.328 min
Delta R.T.: 0.002 min
Response: 5898168
Conc: 110.03 ppm



#5 Propionic Acid

R.T.: 8.221 min
Delta R.T.: -0.011 min
Response: 5670552
Conc: 102.59 ppm



#6 Butyric Acid

R.T.: 20.291 min
Delta R.T.: -0.111 min
Response: 8100481
Conc: 107.09 ppm

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000030.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 17:29:32
Operator : AFelser
Sample : 20/200 STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:09 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc Units
Target Compounds				
1) t	Formic acid	3.237	18481392	206.120 ppm
2) T	Pyruvic acid	3.611	11296149	21.476 ppm
3) T	Lactic Acid	3.966	10361521	213.890 ppm
4) T	Acetic Acid	4.324	11418644	213.020 ppm
5) T	Propionic Acid	8.193	10758222	194.640 ppm
6) T	Butyric Acid	20.111	15420415	203.863 ppm

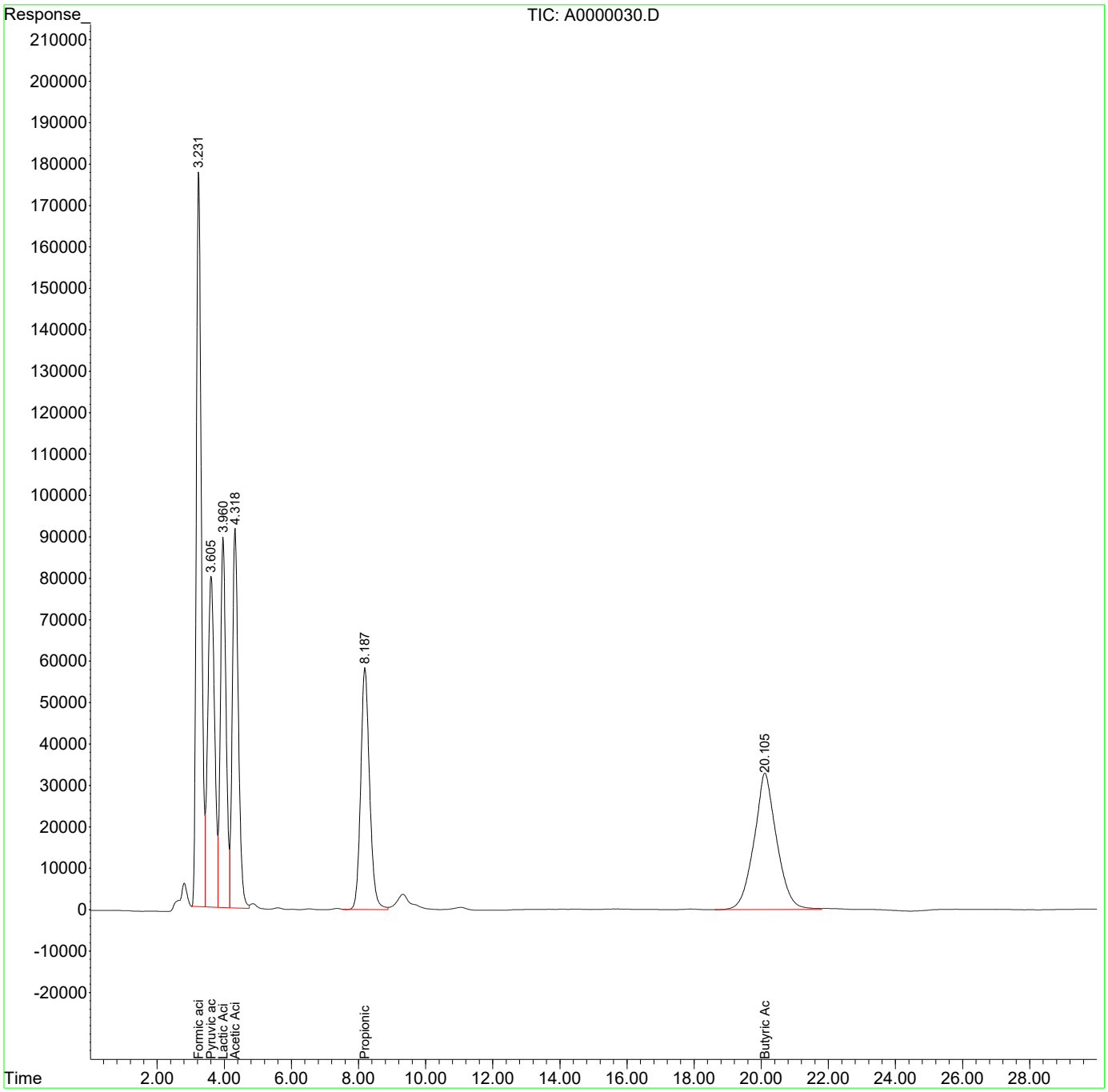
(f)=RT Delta > 1/2 Window (m)=manual int.

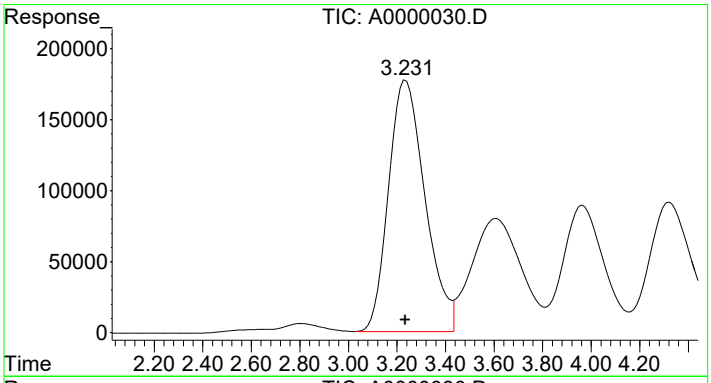
1st AF 07/15/24
2nd BA 07/16/24

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000030.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 17:29:32
Operator : AFelser
Sample : 20/200 STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:09 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

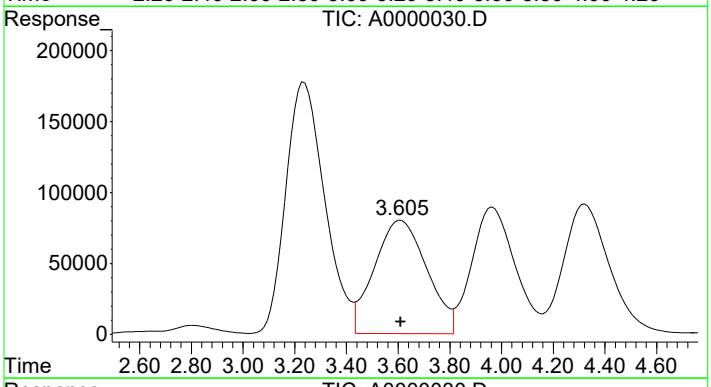
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





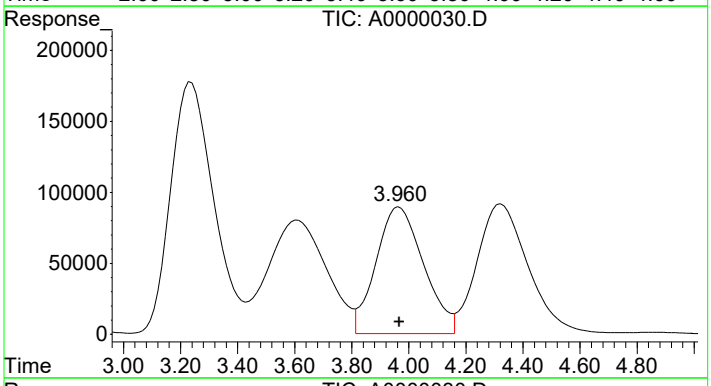
#1 Formic acid

R.T.: 3.237 min
Delta R.T.: 0.002 min
Response: 18481392
Conc: 206.12 ppm



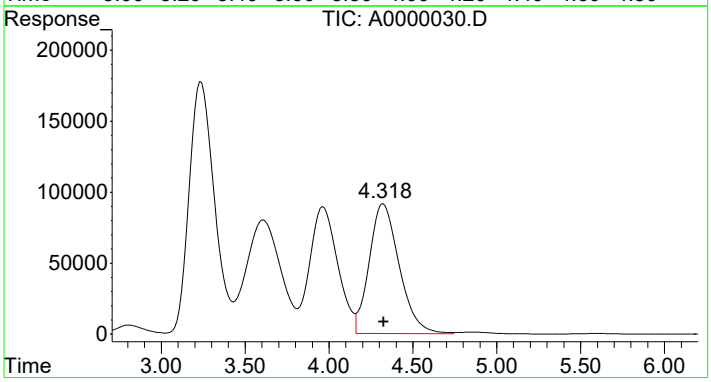
#2 Pyruvic acid

R.T.: 3.611 min
Delta R.T.: 0.001 min
Response: 11296149
Conc: 21.48 ppm



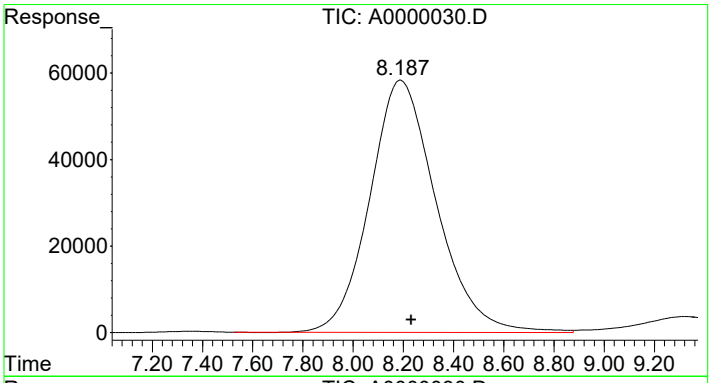
#3 Lactic Acid

R.T.: 3.966 min
Delta R.T.: 0.000 min
Response: 10361521
Conc: 213.89 ppm



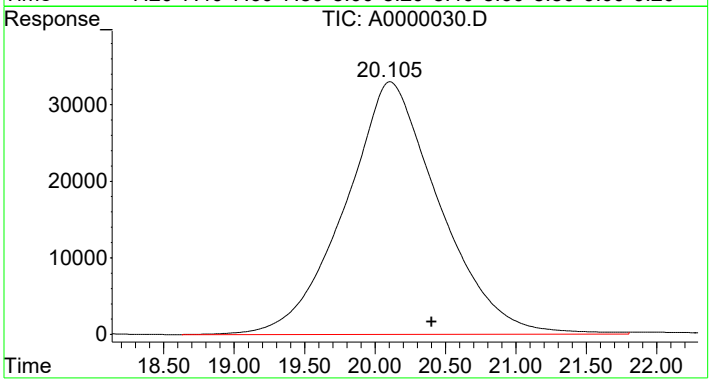
#4 Acetic Acid

R.T.: 4.324 min
Delta R.T.: -0.002 min
Response: 11418644
Conc: 213.02 ppm



#5 Propionic Acid

R.T.: 8.193 min
Delta R.T.: -0.039 min
Response: 10758222
Conc: 194.64 ppm



#6 Butyric Acid

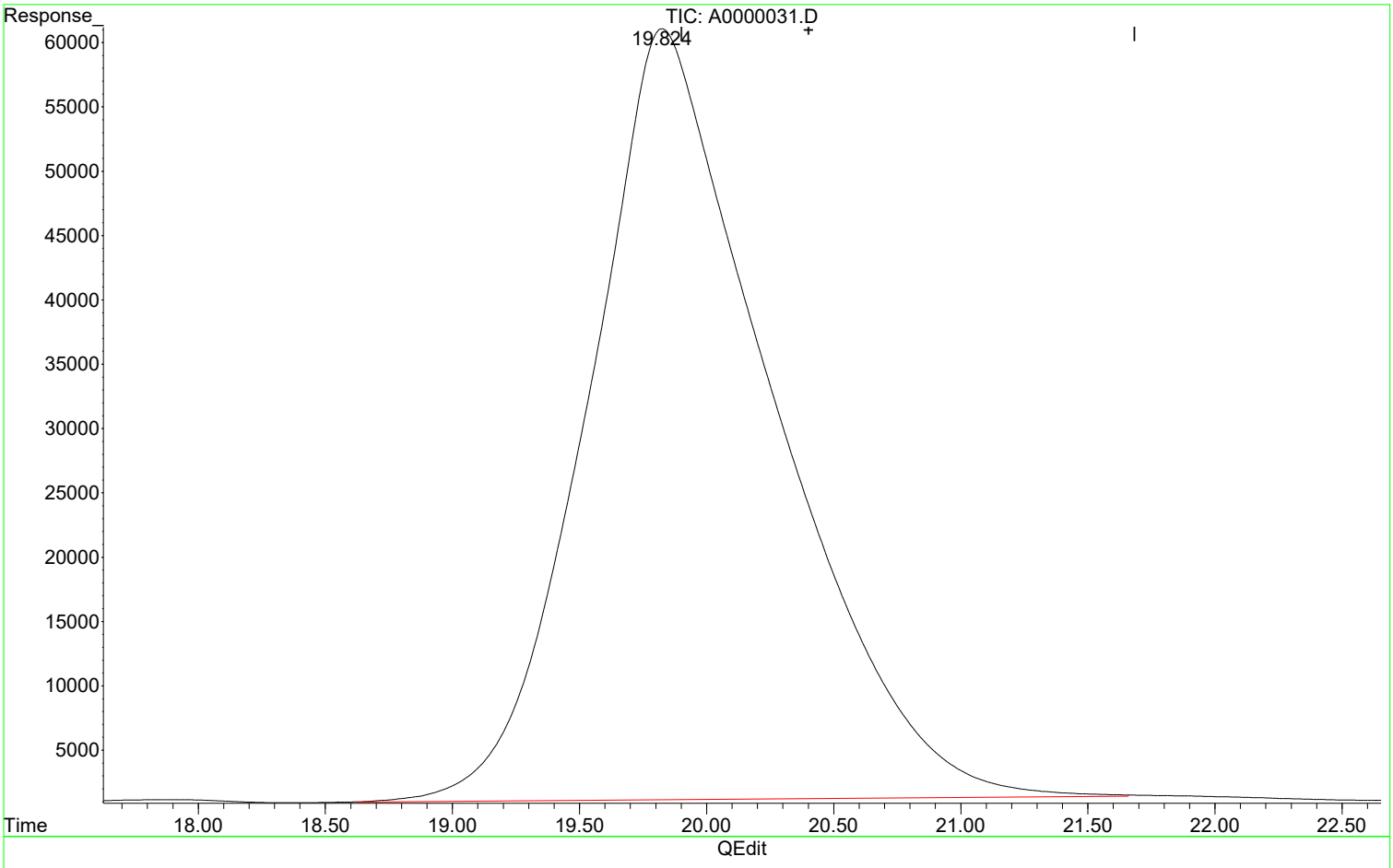
R.T.: 20.111 min
Delta R.T.: -0.291 min
Response: 15420415
Conc: 203.86 ppm

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000031.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 18:01:19
Operator : AFelser
Sample : 40/400 STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:11 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

19.824min 399.847 ppm m

response 30244852

Manual Integration:

After

Peak not found.

07/12/24

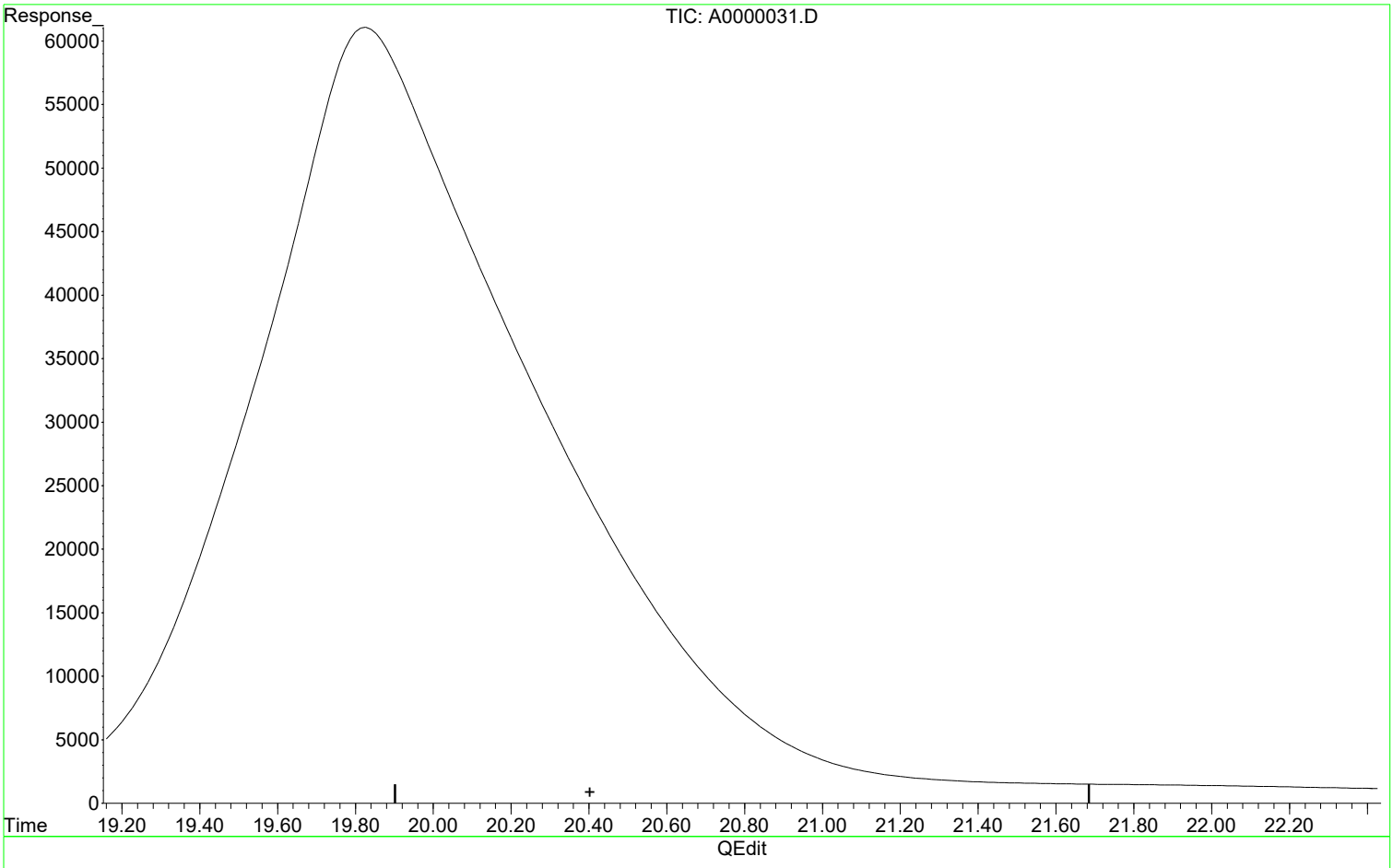
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000031.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 18:01:19
Operator : AFelser
Sample : 40/400 STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:11 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

20.402min 0.000 ppm

response 0

Manual Integration:

Before

07/12/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000031.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 18:01:19
Operator : AFelser
Sample : 40/400 STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:11 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

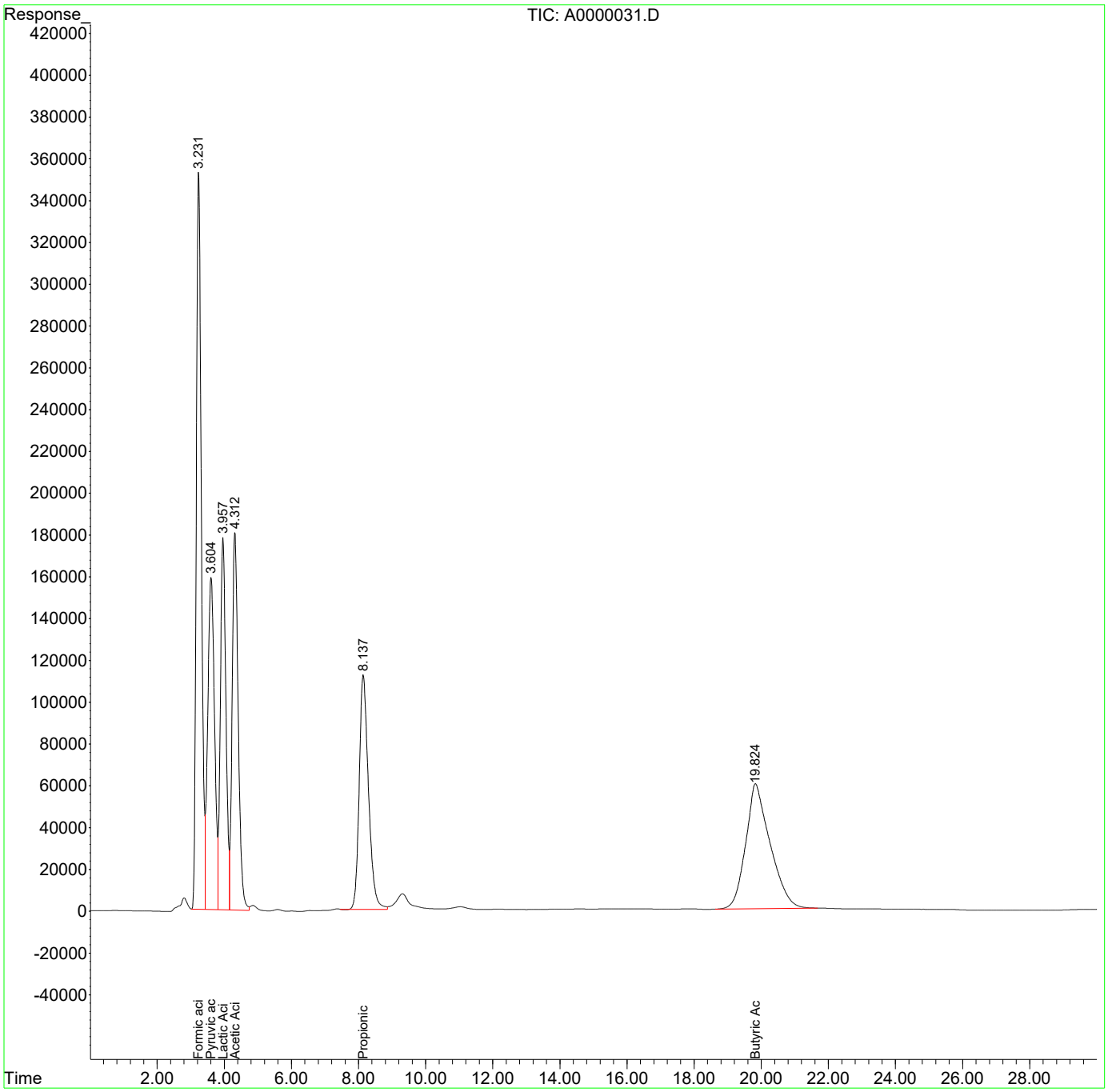
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.236	36753099	409.901	ppm	
2) T	Pyruvic acid	3.609	22480781	42.740	ppm	
3) T	Lactic Acid	3.963	20563817	424.493	ppm	
4) T	Acetic Acid	4.318	22741006	424.245	ppm	
5) T	Propionic Acid	8.142	21417256	387.485	ppm	
6) T	Butyric Acid	19.824f	30244852	399.847	ppm	m

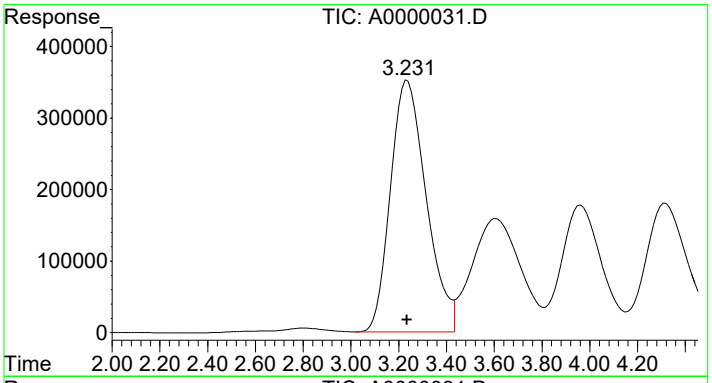
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000031.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 18:01:19
Operator : AFelser
Sample : 40/400 STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:11 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

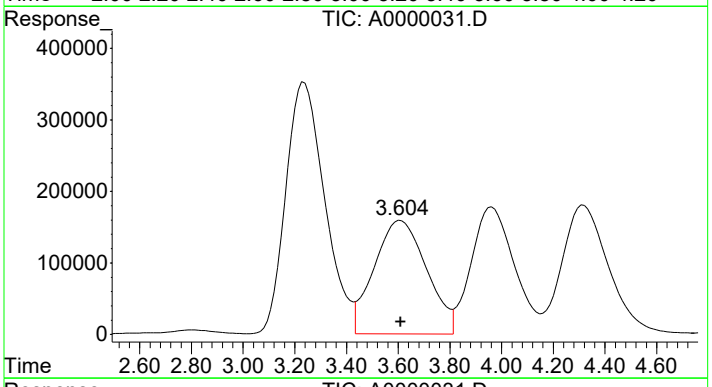
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





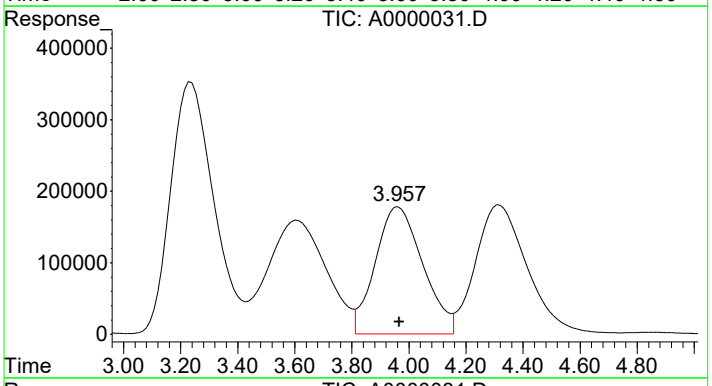
#1 Formic acid

R.T.: 3.236 min
Delta R.T.: 0.001 min
Response: 36753099
Conc: 409.90 ppm



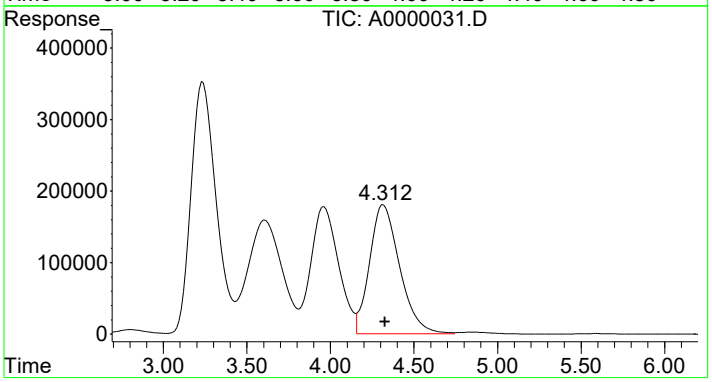
#2 Pyruvic acid

R.T.: 3.609 min
Delta R.T.: 0.000 min
Response: 22480781
Conc: 42.74 ppm



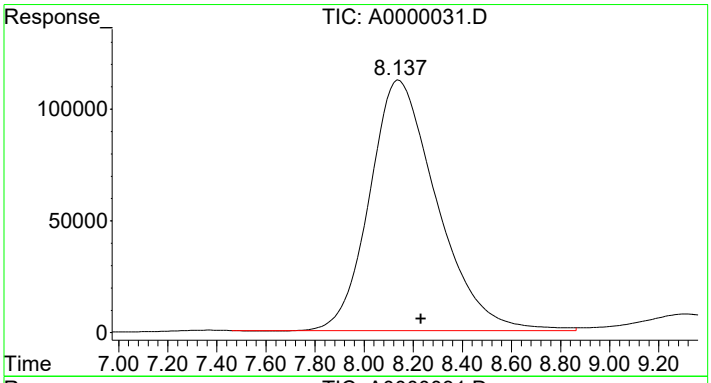
#3 Lactic Acid

R.T.: 3.963 min
Delta R.T.: -0.003 min
Response: 20563817
Conc: 424.49 ppm



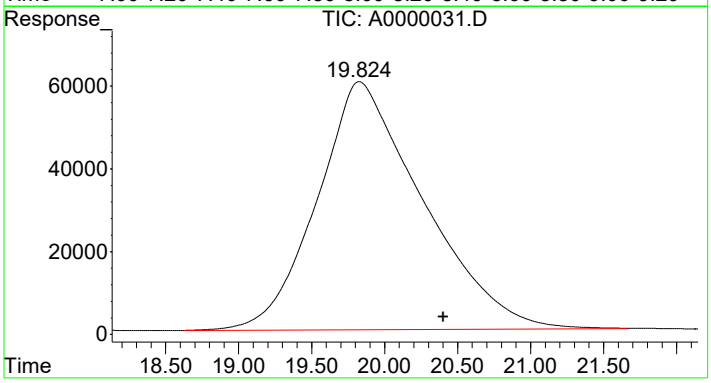
#4 Acetic Acid

R.T.: 4.318 min
Delta R.T.: -0.008 min
Response: 22741006
Conc: 424.24 ppm



#5 Propionic Acid

R.T.: 8.142 min
Delta R.T.: -0.090 min
Response: 21417256
Conc: 387.49 ppm



#6 Butyric Acid

R.T.: 19.824 min
Delta R.T.: -0.578 min
Response: 30244852
Conc: 399.85 ppm m

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000032.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 18:33:09
Operator : AFelser
Sample : ICV 50
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 08:40:34 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 08:40:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 t	Formic acid	50.000	52.628	-5.3	102	0.00
2 T	Pyruvic acid	5.000	4.924	1.5	104	0.00
3 T	Lactic Acid	50.000	51.786	-3.6	110	0.00
4 T	Acetic Acid	50.000	54.784	-9.6	107	0.00
5 T	Propionic Acid	50.000	49.993	0.0	96	0.03
6 T	Butyric Acid	50.000	49.330	1.3	97	0.21

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408139
Project: Olean OU3 12-Month Sampling **Calibration Date:** 7/11/2024

Initial Calibration Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Calibration ID: RC2400131 **Signal ID:** synergi hydro rp
Instrument ID: R-HPLC-08

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC2400131-01	0.1/1 STD	I:\ACQUDATA\HPLC08\DATA\071124\A0000023.D	07/11/2024 13:47
02	RC2400131-02	0.2/2 STD	I:\ACQUDATA\HPLC08\DATA\071124\A0000024.D	07/11/2024 14:18
03	RC2400131-03	0.5/5 STD	I:\ACQUDATA\HPLC08\DATA\071124\A0000025.D	07/11/2024 14:50
04	RC2400131-04	1/10 STD	I:\ACQUDATA\HPLC08\DATA\071124\A0000026.D	07/11/2024 15:22
05	RC2400131-05	2/20 STD	I:\ACQUDATA\HPLC08\DATA\071124\A0000027.D	07/11/2024 15:54
06	RC2400131-06	5/50 STD	I:\ACQUDATA\HPLC08\DATA\071124\A0000028.D	07/11/2024 16:25
07	RC2400131-07	10/100 STD	I:\ACQUDATA\HPLC08\DATA\071124\A0000029.D	07/11/2024 16:57
08	RC2400131-08	20/200 STD	I:\ACQUDATA\HPLC08\DATA\071124\A0000030.D	07/11/2024 17:29
09	RC2400131-09	40/400 STD	I:\ACQUDATA\HPLC08\DATA\071124\A0000031.D	07/11/2024 18:01

Analyte

Acetic Acid

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	4.345E4	02	2.000	4.478E4	03	5.000	4.795E4	04	10.000	5.158E4
05	20.000	5.54E4	06	50.000	5.36E4	07	100.000	5.898E4	08	200.000	5.709E4
09	400.000	5.685E4									

Butanoic Acid (Butyric Acid)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	5.000	6.407E4	04	10.000	7.47E4	05	20.000	7.343E4	06	50.000	7.564E4
07	100.000	8.1E4	08	200.000	7.71E4	09	400.000	7.561E4			

Propionic Acid

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	5.217E4	02	2.000	4.813E4	03	5.000	5.171E4	04	10.000	5.395E4
05	20.000	5.466E4	06	50.000	5.527E4	07	100.000	5.671E4	08	200.000	5.379E4
09	400.000	5.354E4									

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408139
Project: Olean OU3 12-Month Sampling **Calibration Date:** 7/11/2024

Initial Calibration Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Calibration ID: RC2400131 **Signal ID:** synergi hydro rp
Instrument ID: R-HPLC-08

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Acetic Acid	TRG	Average RF	% RSD	10.8	≤	5.219E4	
Butanoic Acid (Butyric Acid)	TRG	Average RF	% RSD	7.0	≤	7.451E4	
Propionic Acid	TRG	Average RF	% RSD	4.6	≤	5.333E4	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408139
Project: Olean OU3 12-Month Sampling **Calibration Date:** 7/11/2024

Initial Calibration Verification Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Calibration ID: RC2400131 **Signal ID:** synergi hydro rp
Instrument ID: R-HPLC-08

#	Lab Code	Sample Name	File Location	Acquisition Date
10	RC2400131-10	ICV 50	I:\ACQUDATA\HPLC08\DATA\071124\A0000032.D	07/11/2024 18:33

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Acetic Acid	50.0	54.8	5.219E4	5.718E4	9.57	±30	Average RF
Butanoic Acid (Butyric Acid)	50.0	49.3	7.451E4	7.351E4	-1.341	±30	Average RF
Propionic Acid	50.0	50.0	5.333E4	5.332E4	-0.013	±30	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	09/04/24 21:34

Continuing Calibration Verification (CCV) Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method:	Organic Acids	**Calibration Date:**	7/11/2024
File ID:	I:\ACQUDATA\HPLC08\DATA\090424\A0000202.D\	**Calibration ID:**	RC2400131
Signal ID:	synergi hydro rp	**Analysis Lot:**	853323
		Units:	ppm

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Acetic Acid	50.0	53.4	5.219E4	5.575E4	6.8	NA	±20	Average RF
Butanoic Acid (Butyric Acid)	50.0	43.6	7.451E4	6.494E4	-12.8	NA	±20	Average RF
Propionic Acid	50.0	49.5	5.333E4	5.277E4	-1.0	NA	±20	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	09/05/24 03:23

Continuing Calibration Verification (CCV) Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method:	Organic Acids	**Calibration Date:**	7/11/2024
File ID:	I:\ACQUDATA\HPLC08\DATA\090424\A0000213.D\	**Calibration ID:**	RC2400131
Signal ID:	synergi hydro rp	**Analysis Lot:**	853323
		Units:	ppm

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Acetic Acid	50.0	54.0	5.219E4	5.633E4	7.9	NA	±20	Average RF
Butanoic Acid (Butyric Acid)	50.0	47.5	7.451E4	7.073E4	-5.1	NA	±20	Average RF
Propionic Acid	50.0	50.0	5.333E4	5.334E4	0.0	NA	±20	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	09/05/24 09:13

Continuing Calibration Verification (CCV) Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method:	Organic Acids	**Calibration Date:**	7/11/2024
File ID:	I:\ACQUDATA\HPLC08\DATA\090424\A0000224.D\	**Calibration ID:**	RC2400131
Signal ID:	synergi hydro rp	**Analysis Lot:**	853323
		Units:	ppm

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Acetic Acid	50.0	53.3	5.219E4	5.563E4	6.6	NA	±20	Average RF
Butanoic Acid (Butyric Acid)	50.0	46.2	7.451E4	6.882E4	-7.6	NA	±20	Average RF
Propionic Acid	50.0	52.0	5.333E4	5.549E4	4.1	NA	±20	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	09/05/24 11:52

Continuing Calibration Verification (CCV) Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method:	Organic Acids	**Calibration Date:**	7/11/2024
File ID:	I:\ACQUDATA\HPLC08\DATA\090424\A0000229.D\	**Calibration ID:**	RC2400131
Signal ID:	synergi hydro rp	**Analysis Lot:**	853323
		Units:	ppm

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Acetic Acid	50.0	52.9	5.219E4	5.521E4	5.8	NA	±20	Average RF
Butanoic Acid (Butyric Acid)	50.0	45.8	7.451E4	6.827E4	-8.4	NA	±20	Average RF
Propionic Acid	50.0	49.9	5.333E4	5.317E4	-0.3	NA	±20	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	09/16/24 17:35

Continuing Calibration Verification (CCV) Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method:	Organic Acids	**Calibration Date:**	7/11/2024
File ID:	I:\ACQUDATA\HPLC08\DATA\091624\A0000232.D\	**Calibration ID:**	RC2400131
Signal ID:	synergi hydro rp	**Analysis Lot:**	854397
		Units:	ppm

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Acetic Acid	50.0	54.0	5.219E4	5.631E4	7.9	NA	±20	Average RF
Butanoic Acid (Butyric Acid)	50.0	52.1	7.451E4	7.757E4	4.1	NA	±20	Average RF
Propionic Acid	50.0	50.4	5.333E4	5.373E4	0.8	NA	±20	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	09/16/24 22:21

Continuing Calibration Verification (CCV) Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method:	Organic Acids	**Calibration Date:**	7/11/2024
File ID:	I:\ACQUDATA\HPLC08\DATA\091624\A0000241.D\	**Calibration ID:**	RC2400131
Signal ID:	synergi hydro rp	**Analysis Lot:**	854397
		Units:	ppm

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Acetic Acid	50.0	53.7	5.219E4	5.607E4	7.4	NA	±20	Average RF
Butanoic Acid (Butyric Acid)	50.0	48.2	7.451E4	7.188E4	-3.5	NA	±20	Average RF
Propionic Acid	50.0	50.5	5.333E4	5.384E4	1.0	NA	±20	Average RF

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408139
Project: Olean OU3 12-Month Sampling/300-082

Analysis Run Log

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids **Analysis Lot:**853323
Instrument ID:R-HPLC-08

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\HPLC08\DATA\090424\A0000202.D\	Continuing Calibration Verification	RQ2411191-01	9/4/2024	21:34:11	
I:\ACQUDATA\HPLC08\DATA\090424\A0000203.D\	Method Blank	RQ2411191-02	9/4/2024	22:05:59	
I:\ACQUDATA\HPLC08\DATA\090424\A0000204.D\	Lab Control Sample	RQ2411191-03	9/4/2024	22:37:46	
I:\ACQUDATA\HPLC08\DATA\090424\A0000205.D\	Duplicate Lab Control Sample	RQ2411191-04	9/4/2024	23:09:34	
I:\ACQUDATA\HPLC08\DATA\090424\A0000206.D\	OLN-RU011-F009	R2408139-001	9/4/2024	23:41:23	
I:\ACQUDATA\HPLC08\DATA\090424\A0000207.D\	OLN-RU009-F009	R2408139-002	9/5/2024	00:13:09	
I:\ACQUDATA\HPLC08\DATA\090424\A0000208.D\	OLN-RU-016-F009	R2408139-003	9/5/2024	00:44:55	
I:\ACQUDATA\HPLC08\DATA\090424\A0000209.D\	OLN-FD001-D009	R2408139-004	9/5/2024	01:16:41	
I:\ACQUDATA\HPLC08\DATA\090424\A0000210.D\	OLN-RU015-F009	R2408139-005	9/5/2024	01:48:27	
I:\ACQUDATA\HPLC08\DATA\090424\A0000211.D\	OLN-RU010-F009	R2408139-007	9/5/2024	02:20:12	
I:\ACQUDATA\HPLC08\DATA\090424\A0000212.D\	OLN-RU008-F009	R2408139-008	9/5/2024	02:51:58	
I:\ACQUDATA\HPLC08\DATA\090424\A0000213.D\	Continuing Calibration Verification	RQ2411191-05	9/5/2024	03:23:44	
I:\ACQUDATA\HPLC08\DATA\090424\A0000214.D\	OLN-RU008-F009 MS	RQ2411191-06	9/5/2024	03:55:31	
I:\ACQUDATA\HPLC08\DATA\090424\A0000215.D\	OLN-RU008-F009 DMS	RQ2411191-07	9/5/2024	04:27:19	
I:\ACQUDATA\HPLC08\DATA\090424\A0000216.D\	OLN-RU27A-F009	R2408139-010	9/5/2024	04:59:07	
I:\ACQUDATA\HPLC08\DATA\090424\A0000218.D\	OLN-FB003-B009	R2408139-013	9/5/2024	06:02:42	
I:\ACQUDATA\HPLC08\DATA\090424\A0000219.D\	ZZZZZZZ	ZZZZZZZ	9/5/2024	06:34:29	
I:\ACQUDATA\HPLC08\DATA\090424\A0000220.D\	ZZZZZZZ	ZZZZZZZ	9/5/2024	07:06:13	
I:\ACQUDATA\HPLC08\DATA\090424\A0000221.D\	ZZZZZZZ	ZZZZZZZ	9/5/2024	07:37:58	
I:\ACQUDATA\HPLC08\DATA\090424\A0000222.D\	ZZZZZZZ	ZZZZZZZ	9/5/2024	08:09:43	
I:\ACQUDATA\HPLC08\DATA\090424\A0000223.D\	ZZZZZZZ	ZZZZZZZ	9/5/2024	08:41:31	
I:\ACQUDATA\HPLC08\DATA\090424\A0000224.D\	Continuing Calibration Verification	RQ2411191-08	9/5/2024	09:13:19	
I:\ACQUDATA\HPLC08\DATA\090424\A0000225.D\	ZZZZZZZ	ZZZZZZZ	9/5/2024	09:45:05	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408139
Project: Olean OU3 12-Month Sampling/300-082

Analysis Run Log

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids **Analysis Lot:**853323
Instrument ID:R-HPLC-08

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\HPLC08\DATA\090424\A0000226.D\	ZZZZZZZ	ZZZZZZZ	9/5/2024	10:16:55	
I:\ACQUDATA\HPLC08\DATA\090424\A0000227.D\	ZZZZZZZ	ZZZZZZZ	9/5/2024	10:48:41	
I:\ACQUDATA\HPLC08\DATA\090424\A0000228.D\	ZZZZZZZ	ZZZZZZZ	9/5/2024	11:20:27	
I:\ACQUDATA\HPLC08\DATA\090424\A0000229.D\	Continuing Calibration Verification	RQ2411191-09	9/5/2024	11:52:15	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408139
Project: Olean OU3 12-Month Sampling/300-082

Analysis Run Log

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids **Analysis Lot:**854397
Instrument ID:R-HPLC-08

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\HPLC08\DATA\091624\A0000232.D\	Continuing Calibration Verification	RQ2411683-01	9/16/2024	17:35:33	
I:\ACQUDATA\HPLC08\DATA\091624\A0000233.D\	Method Blank	RQ2411683-02	9/16/2024	18:07:19	
I:\ACQUDATA\HPLC08\DATA\091624\A0000234.D\	Lab Control Sample	RQ2411683-03	9/16/2024	18:39:07	
I:\ACQUDATA\HPLC08\DATA\091624\A0000235.D\	Duplicate Lab Control Sample	RQ2411683-04	9/16/2024	19:10:55	
I:\ACQUDATA\HPLC08\DATA\091624\A0000236.D\	OLN-RU019-F009	R2408139-012	9/16/2024	19:42:40	
I:\ACQUDATA\HPLC08\DATA\091624\A0000237.D\	ZZZZZZZ	ZZZZZZZ	9/16/2024	20:14:27	
I:\ACQUDATA\HPLC08\DATA\091624\A0000238.D\	ZZZZZZZ	ZZZZZZZ	9/16/2024	20:46:12	
I:\ACQUDATA\HPLC08\DATA\091624\A0000239.D\	ZZZZZZZ	ZZZZZZZ	9/16/2024	21:18:00	
I:\ACQUDATA\HPLC08\DATA\091624\A0000240.D\	ZZZZZZZ	ZZZZZZZ	9/16/2024	21:49:48	
I:\ACQUDATA\HPLC08\DATA\091624\A0000241.D\	Continuing Calibration Verification	RQ2411683-07	9/16/2024	22:21:37	

Metabolic Acids | Analyst: AReber / KP | Run Method: METACIDS
Instrument: R-HPLC-08 | Date: 9/4/24 | Quant Method: 8-MA071124
ICAL: RC 240015 | LIMS Run#: 853322 to 853323
Setup: Column: Synergi Hydro RP | Col.Temp: 35°C | Flow: 0.6 mL/min
Mobile Phase: 0.01M KH_2PO_4 in 0.1% H_3PO_4 | ul Inj.: 50
Mobile Phase ID: 237098

Pos.	Sample	Diln.*	Stds. ID	pH	Filtered	File#	OK?	Comments
2	Blk			<2	n/a	AC0000191	—	
2	Blk					92	—	
1	CCV	50µL/1mL	235845			93	Y	
2	MB					94	Y	
3	LCS	20µL/1mL	235846			95	Y	
4	DLCS	↓	↓			96	Y	
5	R2408213-001					97	Y	
6	R2408214-001					98	Y	
7	R2408215-001					99	Y	
8	-001 MS		235846			200	Y	
9	-001 DMS		↓			01	Y	
1	CCV	50µL/1mL	235845			02	Y	
10	MB					03	Y	
11	LCS	20µL/1mL	235846			04	Y	
12	DLCS	↓	↓			05	Y	
13	R2408139-001					06	Y	
14	-002					07	Y	
15	-003					08	Y	
16	-004					09	Y	
17	-005					10	Y	
18	-007					11	Y	
19	-008					12	Y	
20	CCV	50µL/1mL	235845			13	Y	
21	R2408139-008 MS		235846			14	Y	
22	-008 DMS		↓			15	Y	
23	-010					16	Y	
24	-012					17	N	2LR. RA @ 45
25	-013					18	Y	
26	R2408140-002					19	Y	
27	-003					20	Y	
28	-004					21	Y	
29	-007			↓	↓	22	Y	

Primary: 235845 exp: 9/23/24 | Secondary: 235846 Exp: 12/3/24
pH Paper: 204524 | Acidified DI: 234459 | Filters: n/a
MB is Acidified DI
*Notation for standards is Amount of Standard/Final Volume with Acidified DI.

Metabolic Acids | Analyst: APalmer / KP | Run Method: METAC:05

Instrument: R-HPLC-08 | Date: 9/4/24 cont. | Quant Method: S-MA071124

ICAL: RC 24000131 | LIMS Run#: 853823

Setup: Column: Synergi Hydro RP | Col.Temp: 35°C | Flow: 0.6 mL/min

Mobile Phase: 0.01M KH2PO4 in 0.1% H3PO4 | ul Inj.: 30

Mobile Phase ID: 232498

Pos.	Sample	Diln.*	Stds. ID	pH	Filtered	File#	OK?	Comments
30	R2408140-008			4.2	n/a	A0000223	Y	
20	CCV	50 µg/mL	235845	↓	↓	24	Y	
31	R2408140-010					25	Y	
32	↓ -011					26	Y	
33	-012					27	Y	
34	-013					28	Y	
20	CCV	50 µg/mL	235845	↓	↓	29	Y	

Primary: 235845 exp: 9/28/24 | Secondary: 235846 Exp: 12/6/24

pH Paper: 204524 | Acidified DI: 234459 | Filters: n/a

MB is Acidified DI

*Notation for standards is Amount of Standard/Final Volume with Acidified DI.

Metabolic Acids | Analyst: AGuzman | Run Method: METACIDS

Instrument: R-HPLC-08 | Date: 9/16/24 | Quant Method: B-MAG711124

ICAL: RC 2400131 | LIMS Run#: 854397

Setup: Column: Synergi Hydro RP | Col.Temp: 35°C | Flow: 0.6 mL/min

Mobile Phase: 0.01M KH_2PO_4 in 0.1M H_3PO_4 | ul Inj.: 50

Mobile Phase ID: 231098

Pos.	Sample	Diln.*	Stds. ID	pH	Filtered	File#	OK?	Comments
2	BLK			<2	n/a	A0000230	—	
2	BLK			↓	↓	31	—	
1	CCV	50µL/1mL	235845			32	Y	
2	MB					33	Y	
3	LCS	20µL/1mL	235846			34	Y	
4	DLCS	↓	↓			35	Y	
5	R2408159-012	5				36	Y	
6	R2408775-001					37	Y	
7	R2408776-001					38	Y	
8	↓ -001 MS		235846			39	Y	
9	↓ -001 DMS		↓			40	Y	
1	CCV	50µL/1mL	235845	↓	↓	41	Y	

AGuzman 9/17/24

Primary: 235845 exp: 9/23/24 Secondary: 235846 Exp: 12/3/24

pH Paper: 204524 Acidified DI: 244454 Filters: n/a

MB is Acidified DI

*Notation for standards is Amount of Standard/Final Volume with Acidified DI.

Metals

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Form 1

Inorganic Analysis Data Sheet

Metals by EPA 6010D

Workorder

R2408139

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 12-Month Sampling

09/24/2024

ALS Environmental–Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 12-Month Sampling	**R2408139**	

Metals by EPA 6010D (P)

OLN-RU011-F009	Collected	Received	Matrix	Prep Method
R2408139-001	08/20/24 1808	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	15		ug/L	6	10	1	09/04/24 20:22	R-ICP-AES-07_853035	444156
P	Iron, Dissolved	1240		ug/L	70	100	1	09/04/24 20:22	R-ICP-AES-07_853035	444156
P	Manganese, Dissolved	765		ug/L	4	10	1	09/04/24 20:22	R-ICP-AES-07_853035	444156

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408139**

Metals by EPA 6010D (P)

OLN-RU009-F009	Collected	Received	Matrix	Prep Method
R2408139-002	08/20/24 1417	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	09/04/24 20:25	R-ICP-AES-07_853035	444156
P	Iron, Dissolved	100	U	ug/L	70	100	1	09/04/24 20:25	R-ICP-AES-07_853035	444156
P	Manganese, Dissolved	10	U	ug/L	4	10	1	09/04/24 20:25	R-ICP-AES-07_853035	444156

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408139**

Metals by EPA 6010D (P)

OLN-RU-016-F009	Collected	Received	Matrix	Prep Method
R2408139-003	08/20/24 1605	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	19	J	ug/L	17	30	3	09/06/24 17:23	R-ICP-AES-07_853309	444156
P	Iron, Dissolved	8550		ug/L	190	300	3	09/06/24 17:23	R-ICP-AES-07_853309	444156
P	Manganese, Dissolved	19800		ug/L	12	30	3	09/06/24 17:23	R-ICP-AES-07_853309	444156

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 12-Month Sampling	**R2408139**	

Metals by EPA 6010D (P)

OLN-FD001-D009	Collected	Received	Matrix	Prep Method
R2408139-004	08/20/24 2000	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	30	U	ug/L	17	30	3	09/06/24 17:27	R-ICP-AES-07_853309	444156
P	Iron, Dissolved	8220		ug/L	190	300	3	09/06/24 17:27	R-ICP-AES-07_853309	444156
P	Manganese, Dissolved	18800		ug/L	12	30	3	09/06/24 17:27	R-ICP-AES-07_853309	444156

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408139**

Metals by EPA 6010D (P)

OLN-RU015-F009	Collected	Received	Matrix	Prep Method
R2408139-005	08/21/24 0842	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	09/04/24 20:34	R-ICP-AES-07_853035	444156
P	Iron, Dissolved	940		ug/L	70	100	1	09/04/24 20:34	R-ICP-AES-07_853035	444156
P	Manganese, Dissolved	761		ug/L	4	10	1	09/04/24 20:34	R-ICP-AES-07_853035	444156

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 12-Month Sampling	**R2408139**	

Metals by EPA 6010D (P)

OLN-RU010-F009	Collected	Received	Matrix	Prep Method
R2408139-007	08/21/24 1030	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	12		ug/L	6	10	1	09/06/24 17:30	R-ICP-AES-07_853309	444156
P	Iron, Dissolved	6020		ug/L	70	100	1	09/04/24 20:44	R-ICP-AES-07_853035	444156
P	Manganese, Dissolved	3280		ug/L	4	10	1	09/04/24 20:44	R-ICP-AES-07_853035	444156

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408139**

Metals by EPA 6010D (P)

OLN-RU008-F009	Collected	Received	Matrix	Prep Method
R2408139-008	08/21/24 1255	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	09/04/24 20:47	R-ICP-AES-07_853035	444156
P	Iron, Dissolved	100	U	ug/L	70	100	1	09/04/24 20:47	R-ICP-AES-07_853035	444156
P	Manganese, Dissolved	159		ug/L	4	10	1	09/04/24 20:47	R-ICP-AES-07_853035	444156

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408139**

Metals by EPA 6010D (P)

OLN-RU27A-F009	Collected	Received	Matrix	Prep Method
R2408139-010	08/21/24 1620	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	33	J	ug/L	28	50	5	09/06/24 17:33	R-ICP-AES-07_853309	444156
P	Iron, Dissolved	78800		ug/L	310	500	5	09/06/24 17:33	R-ICP-AES-07_853309	444156
P	Manganese, Dissolved	38400		ug/L	19	50	5	09/06/24 17:33	R-ICP-AES-07_853309	444156

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 12-Month Sampling	**R2408139**	

Metals by EPA 6010D (P)

OLN-RU019-F009	Collected	Received	Matrix	Prep Method
R2408139-012	08/22/24 0840	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	60		ug/L	28	50	5	09/06/24 17:36	R-ICP-AES-07_853309	444156
P	Iron, Dissolved	95000		ug/L	310	500	5	09/06/24 17:36	R-ICP-AES-07_853309	444156
P	Manganese, Dissolved	26200		ug/L	19	50	5	09/06/24 17:36	R-ICP-AES-07_853309	444156

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 12-Month Sampling	**R2408139**	

Metals by EPA 6010D (P)

OLN-FB003-B009	Collected	Received	Matrix	Prep Method
R2408139-013	08/22/24 1001	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	09/04/24 21:16	R-ICP-AES-07_853035	444156
P	Iron, Dissolved	100	U	ug/L	70	100	1	09/04/24 21:16	R-ICP-AES-07_853035	444156
P	Manganese, Dissolved	10	U	ug/L	4	10	1	09/04/24 21:16	R-ICP-AES-07_853035	444156

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408139**

Metals by EPA 6010D (P)

Method Blank

	Matrix	Prep Method
R2408139-MB	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	09/04/24 20:15	R-ICP-AES-07_853035	444156
P	Iron, Dissolved	100	U	ug/L	70	100	1	09/04/24 20:15	R-ICP-AES-07_853035	444156
P	Manganese, Dissolved	10	U	ug/L	4	10	1	09/04/24 20:15	R-ICP-AES-07_853035	444156

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Metals Data Cover Sheet

Run Date: 9/4/2024

Data File: 090424A-ICP7

Primary Reviewer: C.Kutzer

Secondary Reviewer: C.Woods

LIMS Runs:	LIMS Preps:	
853026	444147	TIER II
853027	444181	CCV3
853034	444154	TIER II
853035	444156	CCV5
853037	444157	TIER II
853038	444003	CCV2
853040	444014	TIER II

Comments:
N/A

ICP-7 Run Log

Serial number: MY2309CQ22

Analyst: EC Date: 9/4/24 Data File: 090424A-ICP7

	Prep Date	Lot #
MRL	—	—
ICSA/SIC	7/12/24	M8750046A
ICSAB	—	—
Int. Std	8/27/24	M8750057J
ICV/CCV	9/4/24	M8750072Y

	Prep Date	Lot #
Cal Std 1	7/29/24	M8750003B
Cal Std 2 1/100 Cal 6	3 1/50 Cal 6, 4 1/10	Cal 6, 5 1/5 Cal 6
Cal Std ~~5/ HLCCV1~~ 6	7/29/24	M8750014A
HLCCV2 A	7/12/24	M8750036A
HLCCV2 B	8/15/24	M8750001B

~~(Cal Std 4 is a 1/5 and Cal Std 3 is a 1/100 dilution of Cal Std 5)~~ EC 9/4/24

Blank Prep - Daily	NHO3	HCl	Pipet Used	DOD Pipet Verification	IEC Date
Lot	235979	235981	M40	—	—

1:1	PBW-444147
1:2	FBW-444147
1:3	LCSW-444147
1:4	DLCSW-444147
1:5	R2408146-077
1:6	R2408146-078
1:7	R2408146-079
1:8	R2408146-080
S1:3	Continuing Calibration Verification
S1:4	Continuing Calibration Blank
1:9	R2408346-001
1:10	R2408346-002
1:11	R2408346-003
1:12	R2408347-001
1:13	R2408347-002
1:14	R2408347-003
1:15	R2408347-004
1:16	R2408347-005
S1:3	Continuing Calibration Verification
S1:4	Continuing Calibration Blank
1:17	R2408347-006
1:18	R2408347-007
1:19	R2408347-008
1:20	R2408349-001
1:21	R2408349-002
1:22	R2408349-002L 5X
4:1	R2408146-077 5X
1:23	R2408346-001 5X
1:24	R2408346-003 5X
S1:3	Continuing Calibration Verification
S1:4	Continuing Calibration Blank

1:25	PBW-444181
1:26	LCSW-444181
1:27	DLCSW-444181
1:28	R2408332-001
1:29	R2408332-004
1:30	R2408332-005
1:31	R2408332-010
1:32	R2408332-015
S1:3	Continuing Calibration Verification
S1:4	Continuing Calibration Blank
1:33	R2408332-020
1:34	R2408332-025
1:35	R2408332-026
1:36	R2408332-027
1:37	R2408332-028
1:38	R2408332-029
1:39	R2408332-030
1:40	R2408332-030L 5X
S1:3	Continuing Calibration Verification
S1:4	Continuing Calibration Blank

1:41	PBW-444154
1:42	LCSW-444154
1:43	R2408350-001
1:44	R2408350-002
1:45	R2408350-003
1:46	R2408350-004
1:47	R2408350-005
1:48	R2408350-006
S1:3	Continuing Calibration Verification
S1:4	Continuing Calibration Blank
1:49	R2408350-007
1:50	R2408350-008
1:51	R2408350-009
1:52	R2408350-010
1:53	R2408350-011
1:54	R2408350-012
1:55	R2408350-013
1:56	R2408350-014
S1:3	Continuing Calibration Verification
S1:4	Continuing Calibration Blank
1:57	R2408350-014S
1:58	R2408350-014SD
1:59	R2408350-014A
1:60	R2408350-014L 5X
2:1	R2408350-015
2:2	R2408350-016
2:3	R2408385-021
2:4	R2408385-022
S1:3	Continuing Calibration Verification
S1:4	Continuing Calibration Blank
2:5	R2408385-023
2:6	R2408385-024
2:11	R2408385-023 5X
S1:3	Continuing Calibration Verification
S1:4	Continuing Calibration Blank

2:12	PBW-444156
2:13	LCSW-444156
2:14	R2408139-001
2:15	R2408139-002
2:16	R2408139-003
2:17	R2408139-004
2:18	R2408139-005
S1:5	Continuing Calibration Verification1
S1:6	Continuing Calibration Blank1
2:20	R2408139-007
2:21	R2408139-008
2:22	R2408139-008S
2:23	R2408139-008SD
2:24	R2408139-008A
2:25	R2408139-008L 5X
2:26	R2408139-010
2:27	R2408139-012
S1:5	Continuing Calibration Verification1
S1:6	Continuing Calibration Blank1
2:28	R2408139-013
2:29	R2408364-001
2:30	R2408364-002
2:31	R2408364-003
2:32	R2408364-004
2:33	R2408364-005
2:34	R2408364-006
2:35	R2408364-007
S1:5	Continuing Calibration Verification1
S1:6	Continuing Calibration Blank1
2:36	R2408364-008
2:37	R2408364-009
2:38	R2408364-009S
2:39	R2408364-009SD
2:40	R2408364-009A
2:41	R2408364-009L 5X
2:42	R2408364-010
2:43	R2408139-004 5X
S1:5	Continuing Calibration Verification1
S1:6	Continuing Calibration Blank1

EC 9/4/24

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ICP-7 Run Log

Serial number: MY2309CQ22

Analyst: EC Date: 9/4/24 Data File: 090424A-ICP7

	Prep Date	Lot #		Prep Date	Lot #
MRL			Cal Std 1		
ICSA			Cal Std 2	EC 9/4/24	
ICSAB			~~Cal Std 5~~/ HLCCV1		
Int. Std			HLCCV2		
ICV/CCV			HLCCV3		

(Cal Std 4 is a 1/5 and Cal Std 3 is a 1/100 dilution of Cal Std 5)

~~Blank Prep - Daily~~	~~NHO3~~	~~HCl~~		~~Pipet Used~~	~~DOD Pipet~~ Verification		IEC Date
Lot							

2:44	PBW-444157
2:45	LCSW-444157
2:46	DLCSW-444157
2:47	R2408385-001
2:48	R2408385-002
2:49	R2408385-003
2:50	R2408385-004
2:51	R2408385-005
S1:5	Continuing Calibration Verification1
S1:6	Continuing Calibration Blank1
2:52	R2408385-006
2:53	R2408385-007
2:54	R2408385-008
2:55	R2408385-009
2:56	R2408385-010
2:57	R2408385-011
2:58	R2408385-012
2:59	R2408385-013
S1:5	Continuing Calibration Verification1
S1:6	Continuing Calibration Blank1
2:60	R2408385-014
3:1	R2408385-015
3:2	R2408385-016
3:3	R2408385-017
3:4	R2408385-018
3:5	R2408385-019
3:6	R2408385-020
3:7	R2408385-020L 5X
S1:5	Continuing Calibration Verification1
S1:6	Continuing Calibration Blank1

3:8	PBW-444003
3:9	LCSW-444003
4:2	DLCSW-444003
3:10	R2408247-002 10X
3:11	R2408247-003 10X
3:12	R2408247-005 10X
3:13	R2408247-006 10X
3:14	R2408297-007 10X
3:15	R2408297-007L 50X
S1:5	Continuing Calibration Verification1
S1:6	Continuing Calibration Blank1
3:16	PBW-444014
3:17	LCSW-444014
3:18	R2407832-001 5X
3:19	R2407832-002 5X
3:20	R2407832-003 3X
3:21	R2408216-001 5X
3:22	R2408216-001L 25X
3:23	R2408209-001 100X
S1:5	Continuing Calibration Verification1
S1:6	Continuing Calibration Blank1

EC 9/4/24

page 2/2

Created Date/Time	9/4/2024 11:45:56	Software Version	7.6.1.12212
Instrument Name	MY2309CQ22	Firmware Version	5590
File Path	C:\Agilent\ICP Expert\My Results\2024\090424A-ICP7.esws		
Notes	EC 9/4/24		

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
9/4/2024 14:51:32	Blank	Ag (328.068 nm)	0.0000	N/A	12.5193
	Blank	Al (237.312 nm)	0.0000	N/A	-11.9602
	Blank	As (188.980 nm)	0.0000	N/A	-2.6455
	Blank	B (249.772 nm)	0.0000	N/A	112.6178
	Blank	Ba (230.424 nm)	0.0000	N/A	10.1131
	Blank	Be (313.107 nm)	0.0000	N/A	-12.4541
	Blank	Ca (317.933 nm)	0.0000	N/A	3260.3318
	Blank	Cd (214.439 nm)	0.0000	N/A	11.3974
	Blank	Co (230.786 nm)	0.0000	N/A	3.4571
	Blank	Cr (267.716 nm)	0.0000	N/A	3.3874
	Blank	Cu (327.395 nm)	0.0000	N/A	1.5476
	Blank	Fe (234.350 nm)	0.0000	N/A	300.9297
	Blank	K (766.491 nm)	0.0000	N/A	725.8592
	Blank	Mg (279.078 nm)	0.0000	N/A	3.7385
	Blank	Mn (257.610 nm)	0.0000	N/A	28.9958
	Blank	Mo (202.032 nm)	0.0000	N/A	8.4180
	Blank	Na (588.995 nm)	0.0000	N/A	-14274.2419
	Blank	Ni (230.299 nm)	0.0000	N/A	1.1804
	Blank	Pb (220.353 nm)	0.0000	N/A	3.2407
	Blank	Sb (217.582 nm)	0.0000	N/A	-0.6673
	Blank	Se (196.026 nm)	0.0000	N/A	4.5279
	Blank	Si (252.851 nm)	0.0000	N/A	129.1898
	Blank	Sn (189.925 nm)	0.0000	N/A	7.3891
	Blank	Sr (216.596 nm)	0.0000	N/A	6.4570
	Blank	Ti (336.122 nm)	0.0000	N/A	89.6843
	Blank	Tl (190.794 nm)	0.0000	N/A	-2.8637
	Blank	V (292.401 nm)	0.0000	N/A	11.0007
	Blank	Y (360.074 nm)	1.00	0.00	632968.78
	Blank	Y_R (360.074 nm)	1.00	0.00	637420.47
	Blank	Zn (213.857 nm)	0.0000	N/A	20.0503
9/4/2024 14:54:47	Standard 1	Ag (328.068 nm)		N/A	13.2898
	Standard 1	Al (237.312 nm)	0.1000	N/A	263.1723
	Standard 1	As (188.980 nm)	0.0100	N/A	14.2999
	Standard 1	B (249.772 nm)		N/A	313.6772
	Standard 1	Ba (230.424 nm)	0.0200	N/A	1235.5038
	Standard 1	Be (313.107 nm)	0.0030	N/A	3452.9456
	Standard 1	Ca (317.933 nm)		N/A	3628.2292
	Standard 1	Cd (214.439 nm)	0.0050	N/A	334.7711
	Standard 1	Co (230.786 nm)		N/A	1.3013
	Standard 1	Cr (267.716 nm)		N/A	18.0989
	Standard 1	Cu (327.395 nm)	0.0100	N/A	457.0100
	Standard 1	Fe (234.350 nm)		N/A	392.1841
	Standard 1	K (766.491 nm)		N/A	739.6740
	Standard 1	Mg (279.078 nm)		N/A	4.0523
	Standard 1	Mn (257.610 nm)	0.0100	N/A	3663.2625
	Standard 1	Mo (202.032 nm)	0.0250	N/A	260.9106
	Standard 1	Na (588.995 nm)		N/A	-14020.3208
	Standard 1	Ni (230.299 nm)		N/A	1.6178
	Standard 1	Pb (220.353 nm)	0.0050	N/A	26.9372
	Standard 1	Sb (217.582 nm)	0.0600	N/A	137.0592
	Standard 1	Se (196.026 nm)		N/A	3.5165
	Standard 1	Si (252.851 nm)		N/A	704.2294

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Standard 1	Sn (189.925 nm)		N/A	7.1609
	Standard 1	Sr (216.596 nm)		N/A	4.1273
	Standard 1	Ti (336.122 nm)		N/A	94.9222
	Standard 1	Tl (190.794 nm)	0.0100	N/A	7.9333
	Standard 1	V (292.401 nm)		N/A	12.8815
	Standard 1	Y (360.074 nm)	1.00	0.40	633040.81
	Standard 1	Y_R (360.074 nm)	1.00	0.40	637402.28
	Standard 1	Zn (213.857 nm)		N/A	39.9574
9/4/2024 14:58:02	Standard 2	Ag (328.068 nm)	0.0100	N/A	633.0425
	Standard 2	Al (237.312 nm)	0.2000	N/A	533.0817
	Standard 2	As (188.980 nm)	0.0200	N/A	30.5681
	Standard 2	B (249.772 nm)	0.1000	N/A	4409.8886
	Standard 2	Ba (230.424 nm)	0.2000	N/A	12509.5840
	Standard 2	Be (313.107 nm)	0.0050	N/A	6073.4936
	Standard 2	Ca (317.933 nm)	0.5000	N/A	23258.1092
	Standard 2	Cd (214.439 nm)	0.0100	N/A	646.7309
	Standard 2	Co (230.786 nm)	0.0500	N/A	1083.5101
	Standard 2	Cr (267.716 nm)	0.0100	N/A	637.4486
	Standard 2	Cu (327.395 nm)	0.0250	N/A	1158.6807
	Standard 2	Fe (234.350 nm)	0.1000	N/A	2473.1537
	Standard 2	K (766.491 nm)	0.5000	N/A	1263.6616
	Standard 2	Mg (279.078 nm)	0.5000	N/A	2137.8447
	Standard 2	Mn (257.610 nm)	0.0150	N/A	5525.3442
	Standard 2	Mo (202.032 nm)	0.0500	N/A	529.2119
	Standard 2	Na (588.995 nm)	0.5000	N/A	-6115.6198
	Standard 2	Ni (230.299 nm)	0.0400	N/A	527.8299
	Standard 2	Pb (220.353 nm)	0.0100	N/A	52.8830
	Standard 2	Sb (217.582 nm)	0.1000	N/A	236.7297
	Standard 2	Se (196.026 nm)	0.0100	N/A	11.6580
	Standard 2	Si (252.851 nm)	0.5000	N/A	3459.3389
	Standard 2	Sn (189.925 nm)	0.1000	N/A	280.8064
	Standard 2	Sr (216.596 nm)	0.0500	N/A	1000.2455
	Standard 2	Ti (336.122 nm)	0.0500	N/A	8043.8287
	Standard 2	Tl (190.794 nm)	0.0200	N/A	16.5738
	Standard 2	V (292.401 nm)	0.0500	N/A	1953.1774
	Standard 2	Y (360.074 nm)	1.00	1.95	630411.23
	Standard 2	Y_R (360.074 nm)	1.00	1.95	634664.54
	Standard 2	Zn (213.857 nm)	0.0200	N/A	1242.6641
9/4/2024 15:01:17	Standard 3	Ag (328.068 nm)	0.0200	N/A	1246.5448
	Standard 3	Al (237.312 nm)	0.4000	N/A	1063.1700
	Standard 3	As (188.980 nm)	0.0400	N/A	65.9033
	Standard 3	B (249.772 nm)	0.2000	N/A	8674.5309
	Standard 3	Ba (230.424 nm)	0.4000	N/A	24849.1729
	Standard 3	Be (313.107 nm)	0.0100	N/A	12220.0211
	Standard 3	Ca (317.933 nm)	1.0000	N/A	42465.9153
	Standard 3	Cd (214.439 nm)	0.0200	N/A	1276.5546
	Standard 3	Co (230.786 nm)	0.1000	N/A	2146.7917
	Standard 3	Cr (267.716 nm)	0.0200	N/A	1249.7912
	Standard 3	Cu (327.395 nm)	0.0500	N/A	2336.8250
	Standard 3	Fe (234.350 nm)	0.2000	N/A	4788.0172
	Standard 3	K (766.491 nm)	1.0000	N/A	1837.8480
	Standard 3	Mg (279.078 nm)	1.0000	N/A	4263.3924
	Standard 3	Mn (257.610 nm)	0.0300	N/A	10909.5123
	Standard 3	Mo (202.032 nm)	0.1000	N/A	1055.3649
	Standard 3	Na (588.995 nm)	1.0000	N/A	2163.2338
	Standard 3	Ni (230.299 nm)	0.0800	N/A	1048.8720
	Standard 3	Pb (220.353 nm)	0.0200	N/A	103.9274

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Standard 3	Sb (217.582 nm)	0.2000	N/A	463.0929
	Standard 3	Se (196.026 nm)	0.0200	N/A	15.0861
	Standard 3	Si (252.851 nm)	1.0000	N/A	6746.8160
	Standard 3	Sn (189.925 nm)	0.2000	N/A	552.1898
	Standard 3	Sr (216.596 nm)	0.1000	N/A	1979.5363
	Standard 3	Ti (336.122 nm)	0.1000	N/A	15961.6517
	Standard 3	Tl (190.794 nm)	0.0400	N/A	36.8323
	Standard 3	V (292.401 nm)	0.1000	N/A	3842.0963
	Standard 3	Y (360.074 nm)	1.01	0.35	637681.18
	Standard 3	Y_R (360.074 nm)	1.01	0.35	641950.63
	Standard 3	Zn (213.857 nm)	0.0400	N/A	2442.7180
9/4/2024 15:04:33	Standard 4	Ag (328.068 nm)	0.1000	N/A	6182.9666
	Standard 4	Al (237.312 nm)	2.0000	N/A	5277.4403
	Standard 4	As (188.980 nm)	0.2000	N/A	340.1565
	Standard 4	B (249.772 nm)	1.0000	N/A	43243.3260
	Standard 4	Ba (230.424 nm)	2.0000	N/A	122410.5071
	Standard 4	Be (313.107 nm)	0.0500	N/A	61744.1026
	Standard 4	Ca (317.933 nm)	5.0000	N/A	198187.8044
	Standard 4	Cd (214.439 nm)	0.1000	N/A	6282.4168
	Standard 4	Co (230.786 nm)	0.5000	N/A	10620.6981
	Standard 4	Cr (267.716 nm)	0.1000	N/A	6063.0369
	Standard 4	Cu (327.395 nm)	0.2500	N/A	11789.1920
	Standard 4	Fe (234.350 nm)	1.0000	N/A	23350.6285
	Standard 4	K (766.491 nm)	5.0000	N/A	6735.9017
	Standard 4	Mg (279.078 nm)	5.0000	N/A	21342.6690
	Standard 4	Mn (257.610 nm)	0.1500	N/A	53521.5099
	Standard 4	Mo (202.032 nm)	0.5000	N/A	5320.0858
	Standard 4	Na (588.995 nm)	5.0000	N/A	68193.5415
	Standard 4	Ni (230.299 nm)	0.4000	N/A	5200.7394
	Standard 4	Pb (220.353 nm)	0.1000	N/A	515.0410
	Standard 4	Sb (217.582 nm)	1.0000	N/A	2327.5073
	Standard 4	Se (196.026 nm)	0.1000	N/A	67.5749
	Standard 4	Si (252.851 nm)	5.0000	N/A	33371.6877
	Standard 4	Sn (189.925 nm)	1.0000	N/A	2741.1492
	Standard 4	Sr (216.596 nm)	0.5000	N/A	9772.9203
	Standard 4	Ti (336.122 nm)	0.5000	N/A	79043.8481
	Standard 4	Tl (190.794 nm)	0.2000	N/A	187.3282
	Standard 4	V (292.401 nm)	0.5000	N/A	19199.5035
	Standard 4	Y (360.074 nm)	1.00	0.47	631995.65
	Standard 4	Y_R (360.074 nm)	1.00	0.47	636167.62
	Standard 4	Zn (213.857 nm)	0.2000	N/A	11988.3075
9/4/2024 15:07:48	Standard 5	Ag (328.068 nm)	0.2000	N/A	12333.6976
	Standard 5	Al (237.312 nm)	4.0000	N/A	10544.7742
	Standard 5	As (188.980 nm)	0.4000	N/A	687.7485
	Standard 5	B (249.772 nm)	2.0000	N/A	86982.7646
	Standard 5	Ba (230.424 nm)	4.0000	N/A	243412.8800
	Standard 5	Be (313.107 nm)	0.1000	N/A	123890.5070
	Standard 5	Ca (317.933 nm)	10.0000	N/A	391872.4212
	Standard 5	Cd (214.439 nm)	0.2000	N/A	12504.5147
	Standard 5	Co (230.786 nm)	1.0000	N/A	21063.1280
	Standard 5	Cr (267.716 nm)	0.2000	N/A	12030.9578
	Standard 5	Cu (327.395 nm)	0.5000	N/A	23574.3352
	Standard 5	Fe (234.350 nm)	2.0000	N/A	46083.0050
	Standard 5	K (766.491 nm)	10.0000	N/A	13108.8716
	Standard 5	Mg (279.078 nm)	10.0000	N/A	42255.1304
	Standard 5	Mn (257.610 nm)	0.3000	N/A	106016.7585
	Standard 5	Mo (202.032 nm)	1.0000	N/A	10724.7717

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Standard 5	Na (588.995 nm)	10.0000	N/A	151300.3623
	Standard 5	Ni (230.299 nm)	0.8000	N/A	10271.8862
	Standard 5	Pb (220.353 nm)	0.2000	N/A	1022.4755
	Standard 5	Sb (217.582 nm)	2.0000	N/A	4671.8380
	Standard 5	Se (196.026 nm)	0.2000	N/A	130.2668
	Standard 5	Si (252.851 nm)	10.0000	N/A	66523.7295
	Standard 5	Sn (189.925 nm)	2.0000	N/A	5407.4117
	Standard 5	Sr (216.596 nm)	1.0000	N/A	19437.5379
	Standard 5	Ti (336.122 nm)	1.0000	N/A	158816.4118
	Standard 5	Tl (190.794 nm)	0.4000	N/A	376.3361
	Standard 5	V (292.401 nm)	1.0000	N/A	38121.7263
	Standard 5	Y (360.074 nm)	0.99	0.59	626359.03
	Standard 5	Y_R (360.074 nm)	0.99	0.59	630354.10
	Standard 5	Zn (213.857 nm)	0.4000	N/A	23920.7535
9/4/2024 15:11:03	Standard 6	Ag (328.068 nm)	1.0000	N/A	62914.2883
	Standard 6	Al (237.312 nm)	20.0000	N/A	53444.1319
	Standard 6	As (188.980 nm)	2.0000	N/A	3535.9771
	Standard 6	B (249.772 nm)	10.0000	N/A	450624.9528
	Standard 6	Ba (230.424 nm)	20.0000	N/A	1180539.8200
	Standard 6	Be (313.107 nm)	0.5000	N/A	624241.8643
	Standard 6	Ca (317.933 nm)	50.0000	N/A	1922618.5079
	Standard 6	Cd (214.439 nm)	1.0000	N/A	62303.6313
	Standard 6	Co (230.786 nm)	5.0000	N/A	103730.7370
	Standard 6	Cr (267.716 nm)	1.0000	N/A	59696.9362
	Standard 6	Cu (327.395 nm)	2.5000	N/A	121754.7824
	Standard 6	Fe (234.350 nm)	10.0000	N/A	227991.3254
	Standard 6	K (766.491 nm)	50.0000	N/A	67546.2420
	Standard 6	Mg (279.078 nm)	50.0000	N/A	213404.3698
	Standard 6	Mn (257.610 nm)	1.5000	N/A	524941.1043
	Standard 6	Mo (202.032 nm)	5.0000	N/A	54095.2261
	Standard 6	Na (588.995 nm)	50.0000	N/A	824442.2698
	Standard 6	Ni (230.299 nm)	4.0000	N/A	50469.7651
	Standard 6	Pb (220.353 nm)	1.0000	N/A	4979.7086
	Standard 6	Sb (217.582 nm)	10.0000	N/A	23975.6286
	Standard 6	Se (196.026 nm)	1.0000	N/A	646.9410
	Standard 6	Si (252.851 nm)	50.0000	N/A	338447.2242
	Standard 6	Sn (189.925 nm)	10.0000	N/A	26660.2514
	Standard 6	Sr (216.596 nm)	5.0000	N/A	96013.8073
	Standard 6	Ti (336.122 nm)	5.0000	N/A	802411.3621
	Standard 6	Tl (190.794 nm)	2.0000	N/A	1839.8907
	Standard 6	V (292.401 nm)	5.0000	N/A	193356.1368
	Standard 6	Y (360.074 nm)	0.95	0.58	600559.02
	Standard 6	Y_R (360.074 nm)	0.95	0.57	604225.87
	Standard 6	Zn (213.857 nm)	2.0000	N/A	121854.3560
9/4/2024 15:14:48	Initial Calibration Verification	Ag (328.068 nm)	0.5134	2.60	32250.4616
	Initial Calibration Verification	Al (237.312 nm)	9.9168	2.72	26463.8828
	Initial Calibration Verification	As (188.980 nm)	0.9919	3.07	1747.5629
	Initial Calibration Verification	B (249.772 nm)	2.3238	2.54	101214.4208
	Initial Calibration Verification	Ba (230.424 nm)	9.9838	2.36	608231.3123
	Initial Calibration Verification	Be (313.107 nm)	0.2504	2.55	308011.9343
	Initial Calibration Verification	Ca (317.933 nm)	25.8502	2.46	1005451.8701
	Initial Calibration Verification	Cd (214.439 nm)	0.5049	2.35	31877.9144
	Initial Calibration Verification	Co (230.786 nm)	2.5177	2.47	53234.7068
	Initial Calibration Verification	Cr (267.716 nm)	0.5209	2.54	31380.1387
	Initial Calibration Verification	Cu (327.395 nm)	1.2351	2.50	59813.8014
	Initial Calibration Verification	Fe (234.350 nm)	5.0703	2.51	115996.6771
	Initial Calibration Verification	K (766.491 nm)	24.8905	2.92	33518.7262

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Initial Calibration Verification	Mg (279.078 nm)	25.9006	2.50	110203.8249
	Initial Calibration Verification	Mn (257.610 nm)	0.7481	2.52	265946.3164
	Initial Calibration Verification	Mo (202.032 nm)	2.5854	2.47	27584.5926
	Initial Calibration Verification	Na (588.995 nm)	24.9893	2.79	398963.5485
	Initial Calibration Verification	Ni (230.299 nm)	2.0465	2.52	26285.0732
	Initial Calibration Verification	Pb (220.353 nm)	0.5152	2.46	2569.6018
	Initial Calibration Verification	Sb (217.582 nm)	4.9075	2.62	11708.4961
	Initial Calibration Verification	Se (196.026 nm)	0.4926	3.15	320.8897
	Initial Calibration Verification	Si (252.851 nm)	10.3351 Q	1.12	68905.0206 Q
	Initial Calibration Verification	Sn (189.925 nm)	5.1366	2.47	13742.5942
	Initial Calibration Verification	Sr (216.596 nm)	2.5332	2.36	49293.6644
	Initial Calibration Verification	Ti (336.122 nm)	2.6342	2.58	417846.3499
	Initial Calibration Verification	Tl (190.794 nm)	1.0165	2.27	941.0794
	Initial Calibration Verification	V (292.401 nm)	2.5683	2.57	98719.0110
	Initial Calibration Verification	Y (360.074 nm)	0.96	2.73	607881.45
	Initial Calibration Verification	Y_R (360.074 nm)	0.96	2.73	611456.85
	Initial Calibration Verification	Zn (213.857 nm)	1.0086	2.53	61142.1480
9/4/2024 15:18:01	Initial Calibration Blank	Ag (328.068 nm)	0.0000 u	> 100.00	12.0953
	Initial Calibration Blank	Al (237.312 nm)	0.0021	51.05	-6.4278
	Initial Calibration Blank	As (188.980 nm)	0.0005 u	> 100.00	-1.8445
	Initial Calibration Blank	B (249.772 nm)	0.0034	12.25	261.1985
	Initial Calibration Blank	Ba (230.424 nm)	0.0002	36.59	23.9261
	Initial Calibration Blank	Be (313.107 nm)	0.0000	86.36	-7.5649
	Initial Calibration Blank	Ca (317.933 nm)	0.0015	6.45	3317.8347
	Initial Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	9.7929
	Initial Calibration Blank	Co (230.786 nm)	0.0000 u	> 100.00	3.7986
	Initial Calibration Blank	Cr (267.716 nm)	0.0000 u	> 100.00	1.9358
	Initial Calibration Blank	Cu (327.395 nm)	0.0000 u	> 100.00	1.5902
	Initial Calibration Blank	Fe (234.350 nm)	-0.0051 u	26.94	183.8508
	Initial Calibration Blank	K (766.491 nm)	0.0402	74.18	778.8126
	Initial Calibration Blank	Mg (279.078 nm)	-0.0003 u	> 100.00	2.5315
	Initial Calibration Blank	Mn (257.610 nm)	0.0000 u	56.04	18.3994
	Initial Calibration Blank	Mo (202.032 nm)	0.0064	16.85	76.3947
	Initial Calibration Blank	Na (588.995 nm)	0.0195	4.02	-13952.1511
	Initial Calibration Blank	Ni (230.299 nm)	0.0003 u	> 100.00	5.6729
	Initial Calibration Blank	Pb (220.353 nm)	-0.0005 u	> 100.00	0.5950
	Initial Calibration Blank	Sb (217.582 nm)	0.0121	0.85	28.0870
	Initial Calibration Blank	Se (196.026 nm)	-0.0046 u	76.73	1.5945
	Initial Calibration Blank	Si (252.851 nm)	0.0044 u	> 100.00	158.5422
	Initial Calibration Blank	Sn (189.925 nm)	0.0004 u	> 100.00	8.3758
	Initial Calibration Blank	Sr (216.596 nm)	0.0000 u	> 100.00	5.8013
	Initial Calibration Blank	Ti (336.122 nm)	0.0079	29.45	1338.4333
	Initial Calibration Blank	Tl (190.794 nm)	0.0016	71.47	-1.3779
	Initial Calibration Blank	V (292.401 nm)	0.0000 u	> 100.00	12.0247
	Initial Calibration Blank	Y (360.074 nm)	1.01	0.29	641096.13
	Initial Calibration Blank	Y_R (360.074 nm)	1.01	0.29	644867.91
	Initial Calibration Blank	Zn (213.857 nm)	-0.0001 u	34.78	12.3797
9/4/2024 15:21:15	Mixed SIC/ICS	Ag (328.068 nm)	0.0000 u	46.52	9.9585
	Mixed SIC/ICS	Al (237.312 nm)	504.8906 o	0.07	1347942.6402
	Mixed SIC/ICS	As (188.980 nm)	0.0002 u	> 100.00	-2.3294
	Mixed SIC/ICS	B (249.772 nm)	0.0569	0.55	2588.3390
	Mixed SIC/ICS	Ba (230.424 nm)	0.0026	2.21	168.7449
	Mixed SIC/ICS	Be (313.107 nm)	0.0006	1.14	724.2104
	Mixed SIC/ICS	Ca (317.933 nm)	439.0590 o	0.34	17025213.7726
	Mixed SIC/ICS	Cd (214.439 nm)	0.0033	5.50	218.8429
	Mixed SIC/ICS	Co (230.786 nm)	0.0009	12.38	22.6925
	Mixed SIC/ICS	Cr (267.716 nm)	0.0014	8.69	86.3451

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Mixed SIC/ICS	Cu (327.395 nm)	0.0004	53.11	20.3299
	Mixed SIC/ICS	Fe (234.350 nm)	179.9301 o	0.24	4105989.4413
	Mixed SIC/ICS	K (766.491 nm)	0.1910	2.21	977.4817
	Mixed SIC/ICS	Mg (279.078 nm)	524.3412 o	0.38	2230936.7975
	Mixed SIC/ICS	Mn (257.610 nm)	0.0019	1.07	700.7694
	Mixed SIC/ICS	Mo (202.032 nm)	0.0015	51.33	24.0771
	Mixed SIC/ICS	Na (588.995 nm)	-0.0104 u	39.75	-14445.7303
	Mixed SIC/ICS	Ni (230.299 nm)	0.0016	62.30	21.7673
	Mixed SIC/ICS	Pb (220.353 nm)	0.0004 u	> 100.00	5.0575
	Mixed SIC/ICS	Sb (217.582 nm)	0.0026	54.88	5.5787
	Mixed SIC/ICS	Se (196.026 nm)	-0.0065 u	85.13	0.3432
	Mixed SIC/ICS	Si (252.851 nm)	0.0206	37.35	266.0917
	Mixed SIC/ICS	Sn (189.925 nm)	0.0008	57.90	9.5687
	Mixed SIC/ICS	Sr (216.596 nm)	0.0199	0.55	393.4925
	Mixed SIC/ICS	Ti (336.122 nm)	0.0024	50.65	467.2846
	Mixed SIC/ICS	Tl (190.794 nm)	-0.0001 u	> 100.00	-2.9127
	Mixed SIC/ICS	V (292.401 nm)	0.0020	4.75	88.3925
	Mixed SIC/ICS	Y (360.074 nm)	0.85	0.66	536035.92
	Mixed SIC/ICS	Y_R (360.074 nm)	0.85	0.66	538944.68
	Mixed SIC/ICS	Zn (213.857 nm)	0.0293 K	0.29	1793.2326 K
9/4/2024 15:24:30	HLCCVA	Ag (328.068 nm)	2.1609 o	0.09	135704.7072
	HLCCVA	Al (237.312 nm)	503.3990 o	0.08	1343960.3046
	HLCCVA	As (188.980 nm)	4.1733 o	0.16	7360.9654
	HLCCVA	B (249.772 nm)	48.2057 o	0.22	2097414.4833
	HLCCVA	Ba (230.424 nm)	37.5768 o	0.27	2289225.2835
	HLCCVA	Be (313.107 nm)	0.9986 o	0.18	1228146.8068
	HLCCVA	Ca (317.933 nm)	231.8648 o	0.29	8992465.5666
	HLCCVA	Cd (214.439 nm)	1.8922 o	0.26	119430.3119
	HLCCVA	Co (230.786 nm)	9.3697 o	0.11	198103.4408
	HLCCVA	Cr (267.716 nm)	9.8059 o	0.18	590694.3811
	HLCCVA	Cu (327.395 nm)	21.5177 o	0.35	1042048.1530
	HLCCVA	Fe (234.350 nm)	93.1392 o	0.17	2125574.5764
	HLCCVA	K (766.491 nm)	120.5697 Qo	0.31	159574.6985 Q
	HLCCVA	Mg (279.078 nm)	515.7483 o	0.33	2194376.2063
	HLCCVA	Mn (257.610 nm)	9.3799 o	0.29	3334268.9222
	HLCCVA	Mo (202.032 nm)	10.0912 o	0.14	107643.8137
	HLCCVA	Na (588.995 nm)	255.3605 o	0.71	4208509.3291
	HLCCVA	Ni (230.299 nm)	7.2846 o	0.12	93560.4541
	HLCCVA	Pb (220.353 nm)	9.5033 o	0.20	47343.4220
	HLCCVA	Sb (217.582 nm)	0.0230	4.09	54.1761
	HLCCVA	Se (196.026 nm)	10.1889 o	0.27	6548.2143
	HLCCVA	Si (252.851 nm)	60.5878 Qo	0.18	403316.8356 Q
	HLCCVA	Sn (189.925 nm)	0.0005 u	> 100.00	8.7867
	HLCCVA	Sr (216.596 nm)	9.6370 o	0.41	187509.9134
	HLCCVA	Ti (336.122 nm)	10.1795 o	0.10	1614463.9279
	HLCCVA	Tl (190.794 nm)	3.6762 o	0.32	3410.7842
	HLCCVA	V (292.401 nm)	10.0452 o	0.19	386075.4701
	HLCCVA	Y (360.074 nm)	0.85	0.61	534913.07
	HLCCVA	Y_R (360.074 nm)	0.84	0.60	537742.12
	HLCCVA	Zn (213.857 nm)	10.2370 o	0.15	620394.9933
9/4/2024 15:27:45	HLCCVB	Ag (328.068 nm)	0.0001 u	> 100.00	16.9160
	HLCCVB	Al (237.312 nm)	0.0197	9.94	40.5060
	HLCCVB	As (188.980 nm)	0.0032	63.61	3.0694
	HLCCVB	B (249.772 nm)	0.0575	5.55	2613.8792
	HLCCVB	Ba (230.424 nm)	0.0007	12.51	55.2012
	HLCCVB	Be (313.107 nm)	0.0000	> 100.00	-9.5716
	HLCCVB	Ca (317.933 nm)	192.9054 o	2.36	7482043.3359

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	HLCCVB	Cd (214.439 nm)	0.0006	7.75	50.8243
	HLCCVB	Co (230.786 nm)	-0.0002 u	43.50	0.2778
	HLCCVB	Cr (267.716 nm)	0.0014	8.23	89.2964
	HLCCVB	Cu (327.395 nm)	4.2863 o	1.96	207576.3436
	HLCCVB	Fe (234.350 nm)	39.4746 o	2.28	901041.0858
	HLCCVB	K (766.491 nm)	116.5605 Qo	1.76	154292.7065 Q
	HLCCVB	Mg (279.078 nm)	426.2163 o	2.39	1813441.3511
	HLCCVB	Mn (257.610 nm)	0.0114	2.28	4085.5605
	HLCCVB	Mo (202.032 nm)	0.0116	16.34	131.7334
	HLCCVB	Na (588.995 nm)	158.0363 o	1.72	2599102.6708
	HLCCVB	Ni (230.299 nm)	0.0018	8.21	24.7337
	HLCCVB	Pb (220.353 nm)	0.0008	70.30	7.4082
	HLCCVB	Sb (217.582 nm)	0.0016	49.25	3.1998
	HLCCVB	Se (196.026 nm)	0.0011 u	> 100.00	5.2606
	HLCCVB	Si (252.851 nm)	0.0633	41.27	550.2870
	HLCCVB	Sn (189.925 nm)	-0.0001 u	> 100.00	7.0528
	HLCCVB	Sr (216.596 nm)	0.0075	2.13	153.0970
	HLCCVB	Ti (336.122 nm)	0.0286	16.56	4629.9071
	HLCCVB	Tl (190.794 nm)	2.9108 o	2.21	2700.0344
	HLCCVB	V (292.401 nm)	0.0006	21.22	33.6235
	HLCCVB	Y (360.074 nm)	0.86	1.53	546636.33
	HLCCVB	Y_R (360.074 nm)	0.86	1.54	549556.11
	HLCCVB	Zn (213.857 nm)	0.0095	1.63	594.0830
9/4/2024 15:31:00	Continuing Calibration Verification	Ag (328.068 nm)	0.5131	0.10	32234.9543
	Continuing Calibration Verification	Al (237.312 nm)	9.9751	0.25	26619.4396
	Continuing Calibration Verification	As (188.980 nm)	0.9923	0.36	1748.2184
	Continuing Calibration Verification	B (249.772 nm)	2.3415	0.12	101984.5032
	Continuing Calibration Verification	Ba (230.424 nm)	10.0146	0.32	610107.9591
	Continuing Calibration Verification	Be (313.107 nm)	0.2504	0.14	307920.9149
	Continuing Calibration Verification	Ca (317.933 nm)	25.8843	0.24	1006772.4834
	Continuing Calibration Verification	Cd (214.439 nm)	0.5047	0.27	31862.8956
	Continuing Calibration Verification	Co (230.786 nm)	2.5201	0.16	53286.1074
	Continuing Calibration Verification	Cr (267.716 nm)	0.5197	0.18	31309.4671
	Continuing Calibration Verification	Cu (327.395 nm)	1.2376	0.27	59933.8451
	Continuing Calibration Verification	Fe (234.350 nm)	5.0915	0.26	116479.1251
	Continuing Calibration Verification	K (766.491 nm)	25.1784	0.39	33898.0990
	Continuing Calibration Verification	Mg (279.078 nm)	25.9190	0.24	110282.1287
	Continuing Calibration Verification	Mn (257.610 nm)	0.7492	0.17	266362.6011
	Continuing Calibration Verification	Mo (202.032 nm)	2.5911	0.28	27645.2062
	Continuing Calibration Verification	Na (588.995 nm)	25.1154	0.35	401047.8116
	Continuing Calibration Verification	Ni (230.299 nm)	2.0478	0.27	26301.1578
	Continuing Calibration Verification	Pb (220.353 nm)	0.5153	0.17	2570.3158
	Continuing Calibration Verification	Sb (217.582 nm)	4.9164	0.11	11729.7270
	Continuing Calibration Verification	Se (196.026 nm)	0.4924	0.69	320.7949
	Continuing Calibration Verification	Si (252.851 nm)	10.5457 Q	2.48	70306.7785 Q
	Continuing Calibration Verification	Sn (189.925 nm)	5.1251	0.14	13711.8777
	Continuing Calibration Verification	Sr (216.596 nm)	2.5333	0.35	49295.6917
	Continuing Calibration Verification	Ti (336.122 nm)	2.6294	0.15	417082.6381
	Continuing Calibration Verification	Tl (190.794 nm)	1.0141	0.34	938.8150
	Continuing Calibration Verification	V (292.401 nm)	2.5678	0.16	98700.2909
	Continuing Calibration Verification	Y (360.074 nm)	0.96	0.52	609542.56
	Continuing Calibration Verification	Y_R (360.074 nm)	0.96	0.52	612894.86
	Continuing Calibration Verification	Zn (213.857 nm)	1.0094	0.23	61192.2928
9/4/2024 15:34:13	Continuing Calibration Blank	Ag (328.068 nm)	-0.0001 u	67.21	8.9629
	Continuing Calibration Blank	Al (237.312 nm)	0.0014 u	> 100.00	-8.1321
	Continuing Calibration Blank	As (188.980 nm)	0.0011 u	91.66	-0.7273
	Continuing Calibration Blank	B (249.772 nm)	0.0079	8.49	456.7115

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Ba (230.424 nm)	0.0002	41.51	22.0798
	Continuing Calibration Blank	Be (313.107 nm)	0.0000 u	> 100.00	-9.7447
	Continuing Calibration Blank	Ca (317.933 nm)	0.0023	3.12	3348.2637
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	11.0194
	Continuing Calibration Blank	Co (230.786 nm)	0.0000 u	> 100.00	3.0641
	Continuing Calibration Blank	Cr (267.716 nm)	0.0001 u	> 100.00	6.4481
	Continuing Calibration Blank	Cu (327.395 nm)	0.0000 u	62.05	-0.0080
	Continuing Calibration Blank	Fe (234.350 nm)	-0.0039 u	42.93	211.3823
	Continuing Calibration Blank	K (766.491 nm)	0.1531	22.11	927.6243
	Continuing Calibration Blank	Mg (279.078 nm)	-0.0001 u	> 100.00	3.1140
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000 u	59.99	19.5852
	Continuing Calibration Blank	Mo (202.032 nm)	0.0060	14.02	72.6668
	Continuing Calibration Blank	Na (588.995 nm)	0.0612	8.67	-13262.6493
	Continuing Calibration Blank	Ni (230.299 nm)	0.0000 u	> 100.00	1.4858
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0006 u	> 100.00	0.0532
	Continuing Calibration Blank	Sb (217.582 nm)	0.0105	9.02	24.4470
	Continuing Calibration Blank	Se (196.026 nm)	-0.0026 u	> 100.00	2.8457
	Continuing Calibration Blank	Si (252.851 nm)	0.0056 u	97.93	166.6608
	Continuing Calibration Blank	Sn (189.925 nm)	-0.0001 u	> 100.00	7.0078
	Continuing Calibration Blank	Sr (216.596 nm)	0.0000 u	> 100.00	6.1641
	Continuing Calibration Blank	Ti (336.122 nm)	0.0074	29.25	1262.3852
	Continuing Calibration Blank	Tl (190.794 nm)	0.0006	30.14	-2.2788
	Continuing Calibration Blank	V (292.401 nm)	0.0000 u	94.41	11.7086
	Continuing Calibration Blank	Y (360.074 nm)	1.01	0.36	640882.97
	Continuing Calibration Blank	Y_R (360.074 nm)	1.01	0.36	644529.60
	Continuing Calibration Blank	Zn (213.857 nm)	-0.0001 u	9.78	12.0579
9/4/2024 15:37:27	PBW-444147	Ag (328.068 nm)	0.0000 u	> 100.00	13.3467
	PBW-444147	Al (237.312 nm)	0.0049	17.28	1.0289
	PBW-444147	As (188.980 nm)	0.0018	34.53	0.4664
	PBW-444147	B (249.772 nm)	0.0065	1.30	393.8648
	PBW-444147	Ba (230.424 nm)	0.0002	8.03	20.8198
	PBW-444147	Be (313.107 nm)	0.0000 u	> 100.00	-12.7807
	PBW-444147	Ca (317.933 nm)	0.0128	0.78	3756.4572
	PBW-444147	Cd (214.439 nm)	0.0000 u	> 100.00	12.3481
	PBW-444147	Co (230.786 nm)	-0.0001 u	65.19	1.3473
	PBW-444147	Cr (267.716 nm)	0.0001	42.41	11.6586
	PBW-444147	Cu (327.395 nm)	0.0000 u	38.85	0.3062
	PBW-444147	Fe (234.350 nm)	-0.0049 u	30.43	189.3516
	PBW-444147	K (766.491 nm)	0.0797	21.12	830.8716
	PBW-444147	Mg (279.078 nm)	-0.0004 u	> 100.00	2.0418
	PBW-444147	Mn (257.610 nm)	0.0000 u	> 100.00	30.1399
	PBW-444147	Mo (202.032 nm)	0.0017	13.32	27.0308
	PBW-444147	Na (588.995 nm)	0.0660	4.55	-13183.5674
	PBW-444147	Ni (230.299 nm)	0.0001 u	> 100.00	2.6442
	PBW-444147	Pb (220.353 nm)	-0.0006 u	> 100.00	0.3208
	PBW-444147	Sb (217.582 nm)	0.0165	3.70	38.7148
	PBW-444147	Se (196.026 nm)	-0.0057 u 0.010U	31.83	0.8414
	PBW-444147	Si (252.851 nm)	0.0212	30.06	269.9364
	PBW-444147	Sn (189.925 nm)	0.0002 u	> 100.00	7.8556
	PBW-444147	Sr (216.596 nm)	-0.0001 u	83.72	4.1228
	PBW-444147	Ti (336.122 nm)	0.0034	37.93	623.5346
	PBW-444147	Tl (190.794 nm)	0.0013 u	> 100.00	-1.6790
	PBW-444147	V (292.401 nm)	0.0001 u	> 100.00	14.5298
	PBW-444147	Y (360.074 nm)	1.02	0.65	645357.99
	PBW-444147	Y_R (360.074 nm)	1.02	0.64	649044.96
	PBW-444147	Zn (213.857 nm)	0.0001	16.53	26.4626
9/4/2024 15:40:41	FBW-444147	Ag (328.068 nm)	0.0000 u	> 100.00	13.7116

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	FBW-444147	Al (237.312 nm)	0.0023	49.35	-5.7462
	FBW-444147	As (188.980 nm)	0.0000 u	> 100.00	-2.5575
	FBW-444147	B (249.772 nm)	0.0049	0.68	327.3978
	FBW-444147	Ba (230.424 nm)	0.0001	50.63	17.6346
	FBW-444147	Be (313.107 nm)	0.0000 u	> 100.00	-15.7212
	FBW-444147	Ca (317.933 nm)	0.0127	3.15	3751.1382
	FBW-444147	Cd (214.439 nm)	0.0000 u	55.48	8.3556
	FBW-444147	Co (230.786 nm)	0.0001 u	> 100.00	5.4013
	FBW-444147	Cr (267.716 nm)	0.0002	64.20	12.8923
	FBW-444147	Cu (327.395 nm)	0.0001	> 100.00	4.7914
	FBW-444147	Fe (234.350 nm)	-0.0057 u	11.29	169.9450
	FBW-444147	K (766.491 nm)	0.0852	37.59	838.1204
	FBW-444147	Mg (279.078 nm)	-0.0006 u	47.43	1.0172
	FBW-444147	Mn (257.610 nm)	0.0000	30.93	40.4444
	FBW-444147	Mo (202.032 nm)	0.0012	11.38	20.9281
	FBW-444147	Na (588.995 nm)	0.0846	6.36	-12874.9496
	FBW-444147	Ni (230.299 nm)	0.0001 u	> 100.00	3.0559
	FBW-444147	Pb (220.353 nm)	-0.0004 u	> 100.00	1.3761
	FBW-444147	Sb (217.582 nm)	0.0116	14.15	27.0453
	FBW-444147	Se (196.026 nm)	-0.0003 u	> 100.00	4.3121
	FBW-444147	Si (252.851 nm)	0.0152	34.35	230.0974
	FBW-444147	Sn (189.925 nm)	0.0004	66.03	8.4797
	FBW-444147	Sr (216.596 nm)	0.0000 u	> 100.00	6.3749
	FBW-444147	Ti (336.122 nm)	0.0018	44.03	378.5563
	FBW-444147	Tl (190.794 nm)	0.0024	92.76	-0.6201
	FBW-444147	V (292.401 nm)	-0.0001 u	95.74	8.1496
	FBW-444147	Y (360.074 nm)	1.02	0.39	646207.39
	FBW-444147	Y_R (360.074 nm)	1.02	0.39	649779.58
	FBW-444147	Zn (213.857 nm)	0.0005	17.44	48.9247
9/4/2024 15:43:55	LCSW-444147	Ag (328.068 nm)	0.0494	0.44	3112.9192
	LCSW-444147	Al (237.312 nm)	1.9829	0.29	5282.1090
	LCSW-444147	As (188.980 nm)	0.0374	4.55	63.3563
	LCSW-444147	B (249.772 nm)	0.9306	0.15	40600.7543
	LCSW-444147	Ba (230.424 nm)	1.9829	0.07	120807.5210
	LCSW-444147	Be (313.107 nm)	0.0494	0.10	60694.6785
	LCSW-444147	Ca (317.933 nm)	2.0093	0.04	81159.7453
	LCSW-444147	Cd (214.439 nm)	0.0506	0.20	3202.6000
	LCSW-444147	Co (230.786 nm)	0.5006	0.23	10586.8589
	LCSW-444147	Cr (267.716 nm)	0.2003	0.06	12067.4463
	LCSW-444147	Cu (327.395 nm)	0.2497	0.30	12093.2574
	LCSW-444147	Fe (234.350 nm)	1.0039	0.03	23208.3163
	LCSW-444147	K (766.491 nm)	19.1926	0.48	26011.8525
	LCSW-444147	Mg (279.078 nm)	1.9599	0.10	8342.3951
	LCSW-444147	Mn (257.610 nm)	0.4840	0.09	172064.3733
	LCSW-444147	Mo (202.032 nm)	0.4921	0.48	5257.7716
	LCSW-444147	Na (588.995 nm)	19.6579	0.58	310799.5180
	LCSW-444147	Ni (230.299 nm)	0.4943	0.07	6349.3452
	LCSW-444147	Pb (220.353 nm)	0.5229	0.40	2608.0818
	LCSW-444147	Sb (217.582 nm)	0.4878	1.67	1163.1313
	LCSW-444147	Se (196.026 nm)	0.9897	0.38	640.1258
	LCSW-444147	Si (252.851 nm)	0.3144	1.38	2221.3244
	LCSW-444147	Sn (189.925 nm)	4.9528	0.08	13251.2364
	LCSW-444147	Sr (216.596 nm)	1.9930	0.21	38782.9625
	LCSW-444147	Ti (336.122 nm)	0.5003	0.28	79436.2287
	LCSW-444147	Tl (190.794 nm)	1.9827	0.06	1838.2907
	LCSW-444147	V (292.401 nm)	0.4937	0.15	18983.7264
	LCSW-444147	Y (360.074 nm)	0.99	0.63	627221.13

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	LCSW-444147	Y_R (360.074 nm)	0.99	0.64	630621.30
	LCSW-444147	Zn (213.857 nm)	0.5037	0.17	30543.2332
9/4/2024 15:47:09	DLCSW-444147	Ag (328.068 nm)	0.0499	0.38	3143.3663
	DLCSW-444147	Al (237.312 nm)	2.0020	0.15	5332.9032
	DLCSW-444147	As (188.980 nm)	0.0380	1.90	64.3278
	DLCSW-444147	B (249.772 nm)	0.9396	0.12	40991.7164
	DLCSW-444147	Ba (230.424 nm)	2.0023	0.28	121990.8232
	DLCSW-444147	Be (313.107 nm)	0.0498	0.10	61283.1010
	DLCSW-444147	Ca (317.933 nm)	2.0296	0.22	81947.6847
	DLCSW-444147	Cd (214.439 nm)	0.0511	0.25	3233.6645
	DLCSW-444147	Co (230.786 nm)	0.5046	0.12	10672.0044
	DLCSW-444147	Cr (267.716 nm)	0.2024	0.20	12193.2654
	DLCSW-444147	Cu (327.395 nm)	0.2524	0.10	12222.6978
	DLCSW-444147	Fe (234.350 nm)	1.0171	0.17	23509.3670
	DLCSW-444147	K (766.491 nm)	19.4098	0.20	26297.9559
	DLCSW-444147	Mg (279.078 nm)	1.9792	0.15	8424.8838
	DLCSW-444147	Mn (257.610 nm)	0.4887	0.13	173741.7231
	DLCSW-444147	Mo (202.032 nm)	0.5035	0.84	5378.9621
	DLCSW-444147	Na (588.995 nm)	19.8789	0.29	314454.4176
	DLCSW-444147	Ni (230.299 nm)	0.4994	0.13	6415.5642
	DLCSW-444147	Pb (220.353 nm)	0.5261	0.23	2624.1108
	DLCSW-444147	Sb (217.582 nm)	0.4965	0.53	1184.0761
	DLCSW-444147	Se (196.026 nm)	1.0031	0.50	648.7830
	DLCSW-444147	Si (252.851 nm)	0.3185	1.72	2248.4968
	DLCSW-444147	Sn (189.925 nm)	5.0190	0.13	13428.1242
	DLCSW-444147	Sr (216.596 nm)	2.0160	0.36	39230.7106
	DLCSW-444147	Ti (336.122 nm)	0.5087	0.11	80763.6750
	DLCSW-444147	Tl (190.794 nm)	2.0008	0.25	1855.0804
	DLCSW-444147	V (292.401 nm)	0.4986	0.13	19171.6892
	DLCSW-444147	Y (360.074 nm)	0.99	0.57	628269.86
	DLCSW-444147	Y_R (360.074 nm)	0.99	0.57	631725.86
	DLCSW-444147	Zn (213.857 nm)	0.5088	0.04	30855.5915
9/4/2024 15:50:23	R2408146-077	Ag (328.068 nm)	0.0011	22.80	82.9352
	R2408146-077	Al (237.312 nm)	0.1178	1.01	302.4197
	R2408146-077	As (188.980 nm)	23.5532 o	0.25	41555.8407
	R2408146-077	B (249.772 nm)	0.9536	0.21	41602.6108
	R2408146-077	Ba (230.424 nm)	0.0124	0.10	768.5641
	R2408146-077	Be (313.107 nm)	0.0000 u	> 100.00	-0.3762
	R2408146-077	Ca (317.933 nm)	2.0692	0.45	83482.7585
	R2408146-077	Cd (214.439 nm)	0.0000	48.57	13.7518
	R2408146-077	Co (230.786 nm)	0.0124	3.42	265.2034
	R2408146-077	Cr (267.716 nm)	0.0140	1.73	848.2990
	R2408146-077	Cu (327.395 nm)	0.2536	0.21	12280.9733
	R2408146-077	Fe (234.350 nm)	1.4049	0.31	32357.8788
	R2408146-077	K (766.491 nm)	88.9827 o	0.04	117959.2645
	R2408146-077	Mg (279.078 nm)	6.9264	0.49	29473.7644
	R2408146-077	Mn (257.610 nm)	0.0128	0.48	4571.7007
	R2408146-077	Mo (202.032 nm)	0.5899	1.16	6300.5556
	R2408146-077	Na (588.995 nm)	1422.0235 o	0.74	23501098.7524
	R2408146-077	Ni (230.299 nm)	0.2788	0.53	3581.7224
	R2408146-077	Pb (220.353 nm)	0.0866	0.58	434.5927
	R2408146-077	Sb (217.582 nm)	0.0475	4.00	112.7355
	R2408146-077	Se (196.026 nm)	0.0371	1.36	28.3307
	R2408146-077	Si (252.851 nm)	6.6981	0.20	44702.5313
	R2408146-077	Sn (189.925 nm)	0.0037	14.37	17.1624
	R2408146-077	Sr (216.596 nm)	0.6807	0.36	13251.1506
	R2408146-077	Ti (336.122 nm)	0.0110	10.16	1839.0477

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408146-077	Tl (190.794 nm)	0.0006 u	> 100.00	-2.2640
	R2408146-077	V (292.401 nm)	0.0439	0.52	1699.1743
	R2408146-077	Y (360.074 nm)	0.63	0.54	396624.76
	R2408146-077	Y_R (360.074 nm)	0.63	0.54	398405.88
	R2408146-077	Zn (213.857 nm)	0.0455	0.42	2778.1070
9/4/2024 15:53:37	R2408146-078	Ag (328.068 nm)	0.0004	26.43	37.9363
	R2408146-078	Al (237.312 nm)	0.3803	1.74	1003.4590
	R2408146-078	As (188.980 nm)	0.3478	2.51	610.9454
	R2408146-078	B (249.772 nm)	0.3356	0.08	14714.9250
	R2408146-078	Ba (230.424 nm)	0.8226	0.02	50126.1707
	R2408146-078	Be (313.107 nm)	0.0000	17.32	6.3172
	R2408146-078	Ca (317.933 nm)	425.6372 o	0.17	16504861.0525
	R2408146-078	Cd (214.439 nm)	0.0001	51.39	16.7720
	R2408146-078	Co (230.786 nm)	0.0003	61.40	9.7674
	R2408146-078	Cr (267.716 nm)	0.0022	4.38	138.1344
	R2408146-078	Cu (327.395 nm)	0.0083	1.28	401.8557
	R2408146-078	Fe (234.350 nm)	0.6646	0.22	15466.3796
	R2408146-078	K (766.491 nm)	27.8350	0.36	37398.1188
	R2408146-078	Mg (279.078 nm)	181.2934 o	0.21	771359.1536
	R2408146-078	Mn (257.610 nm)	2.1508 o	0.10	764565.5351
	R2408146-078	Mo (202.032 nm)	0.0042	20.62	53.4708
	R2408146-078	Na (588.995 nm)	129.7594 o	1.17	2131498.8602
	R2408146-078	Ni (230.299 nm)	0.0273	2.73	351.2447
	R2408146-078	Pb (220.353 nm)	0.0004 u	> 100.00	5.0183
	R2408146-078	Sb (217.582 nm)	0.0080	17.32	18.3740
	R2408146-078	Se (196.026 nm)	-0.0006 u	> 100.00	4.1590
	R2408146-078	Si (252.851 nm)	7.3038	0.24	48732.9336
	R2408146-078	Sn (189.925 nm)	0.0014	90.40	11.1951
	R2408146-078	Sr (216.596 nm)	25.5930 o	0.23	497961.8591
	R2408146-078	Ti (336.122 nm)	0.0119	11.47	1975.0332
	R2408146-078	Tl (190.794 nm)	0.0033	64.48	0.1595
	R2408146-078	V (292.401 nm)	0.0009	30.46	44.9826
	R2408146-078	Y (360.074 nm)	0.88	0.54	556926.31
	R2408146-078	Y_R (360.074 nm)	0.88	0.54	559755.20
	R2408146-078	Zn (213.857 nm)	0.0122	0.71	759.6598
9/4/2024 15:56:51	R2408146-079	Ag (328.068 nm)	0.0001 u	> 100.00	18.8646
	R2408146-079	Al (237.312 nm)	0.0030	79.41	-4.0042
	R2408146-079	As (188.980 nm)	0.0077	39.66	10.8837
	R2408146-079	B (249.772 nm)	0.0031	6.00	246.8744
	R2408146-079	Ba (230.424 nm)	0.0003	24.26	28.2499
	R2408146-079	Be (313.107 nm)	0.0000 u	> 100.00	-12.8706
	R2408146-079	Ca (317.933 nm)	0.0868	2.16	6625.2109
	R2408146-079	Cd (214.439 nm)	0.0000 u	> 100.00	11.4582
	R2408146-079	Co (230.786 nm)	0.0000 u	> 100.00	2.8971
	R2408146-079	Cr (267.716 nm)	0.0004	23.81	25.0376
	R2408146-079	Cu (327.395 nm)	0.0001 u	> 100.00	4.2361
	R2408146-079	Fe (234.350 nm)	0.0297	4.53	979.3894
	R2408146-079	K (766.491 nm)	0.4868	4.07	1367.2457
	R2408146-079	Mg (279.078 nm)	0.0440	2.84	190.7802
	R2408146-079	Mn (257.610 nm)	0.0003	3.62	147.3059
	R2408146-079	Mo (202.032 nm)	0.0012	36.10	20.9766
	R2408146-079	Na (588.995 nm)	1.1212	6.45	4265.9132
	R2408146-079	Ni (230.299 nm)	0.0007	50.27	10.1629
	R2408146-079	Pb (220.353 nm)	-0.0001 u	> 100.00	2.6644
	R2408146-079	Sb (217.582 nm)	0.0066	22.00	15.0561
	R2408146-079	Se (196.026 nm)	-0.0005 u	> 100.00	4.1779
	R2408146-079	Si (252.851 nm)	0.0792	10.70	656.2125

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408146-079	Sn (189.925 nm)	0.0005 u	> 100.00	8.6645
	R2408146-079	Sr (216.596 nm)	0.0007	25.87	20.4220
	R2408146-079	Ti (336.122 nm)	0.0009	43.59	238.8137
	R2408146-079	Tl (190.794 nm)	0.0014 u	> 100.00	-1.5502
	R2408146-079	V (292.401 nm)	-0.0001 u	> 100.00	5.5501
	R2408146-079	Y (360.074 nm)	1.01	1.48	636635.97
	R2408146-079	Y_R (360.074 nm)	1.00	1.48	640127.16
	R2408146-079	Zn (213.857 nm)	0.0070	1.68	443.7079
9/4/2024 16:00:05	R2408146-080	Ag (328.068 nm)	0.0000 u	> 100.00	11.3790
	R2408146-080	Al (237.312 nm)	0.0022	42.45	-6.0068
	R2408146-080	As (188.980 nm)	0.0025	79.97	1.8235
	R2408146-080	B (249.772 nm)	0.0027	3.99	230.8878
	R2408146-080	Ba (230.424 nm)	0.0003	26.75	29.1460
	R2408146-080	Be (313.107 nm)	0.0000 u	> 100.00	-10.6366
	R2408146-080	Ca (317.933 nm)	0.0932	0.26	6874.5141
	R2408146-080	Cd (214.439 nm)	-0.0001 u	25.61	6.8254
	R2408146-080	Co (230.786 nm)	0.0000 u	> 100.00	3.1724
	R2408146-080	Cr (267.716 nm)	0.0004	10.15	29.1274
	R2408146-080	Cu (327.395 nm)	0.0002	94.13	9.3883
	R2408146-080	Fe (234.350 nm)	0.0014	34.99	333.0027
	R2408146-080	K (766.491 nm)	0.3461	3.45	1181.8074
	R2408146-080	Mg (279.078 nm)	0.0158	3.66	71.1143
	R2408146-080	Mn (257.610 nm)	0.0003	3.72	152.6959
	R2408146-080	Mo (202.032 nm)	0.0004 u	91.43	12.7088
	R2408146-080	Na (588.995 nm)	0.9356	2.68	1197.1683
	R2408146-080	Ni (230.299 nm)	0.0005	63.12	7.8688
	R2408146-080	Pb (220.353 nm)	0.0001 u	> 100.00	3.5537
	R2408146-080	Sb (217.582 nm)	0.0071	13.55	16.3640
	R2408146-080	Se (196.026 nm)	-0.0035 u	96.31	2.2848
	R2408146-080	Si (252.851 nm)	0.2001	2.54	1460.5852
	R2408146-080	Sn (189.925 nm)	0.0006	71.35	8.9517
	R2408146-080	Sr (216.596 nm)	0.0003	24.50	13.1326
	R2408146-080	Ti (336.122 nm)	0.0007	43.42	200.1185
	R2408146-080	Tl (190.794 nm)	0.0020	> 100.00	-1.0299
	R2408146-080	V (292.401 nm)	0.0000 u	> 100.00	11.1572
	R2408146-080	Y (360.074 nm)	1.01	0.52	641636.25
	R2408146-080	Y_R (360.074 nm)	1.01	0.52	645196.09
	R2408146-080	Zn (213.857 nm)	0.0016	0.27	119.5364
9/4/2024 16:03:19	Continuing Calibration Verification	Ag (328.068 nm)	0.5133	0.14	32242.5023
	Continuing Calibration Verification	Al (237.312 nm)	9.9816	0.21	26636.8884
	Continuing Calibration Verification	As (188.980 nm)	0.9968	0.26	1756.1661
	Continuing Calibration Verification	B (249.772 nm)	2.3267	0.17	101340.9121
	Continuing Calibration Verification	Ba (230.424 nm)	9.9907	0.39	608651.3329
	Continuing Calibration Verification	Be (313.107 nm)	0.2504	0.12	308000.1519
	Continuing Calibration Verification	Ca (317.933 nm)	25.8528	0.23	1005552.0040
	Continuing Calibration Verification	Cd (214.439 nm)	0.5050	0.28	31881.4227
	Continuing Calibration Verification	Co (230.786 nm)	2.5188	0.19	53256.6931
	Continuing Calibration Verification	Cr (267.716 nm)	0.5190	0.19	31269.1683
	Continuing Calibration Verification	Cu (327.395 nm)	1.2346	0.19	59788.5951
	Continuing Calibration Verification	Fe (234.350 nm)	5.0557	0.22	115663.0659
	Continuing Calibration Verification	K (766.491 nm)	25.2854	0.20	34039.0529
	Continuing Calibration Verification	Mg (279.078 nm)	25.8341	0.20	109920.9267
	Continuing Calibration Verification	Mn (257.610 nm)	0.7496	0.12	266503.3889
	Continuing Calibration Verification	Mo (202.032 nm)	2.6004	0.36	27745.2348
	Continuing Calibration Verification	Na (588.995 nm)	24.9818	0.28	398838.9212
	Continuing Calibration Verification	Ni (230.299 nm)	2.0462	0.11	26281.5323
	Continuing Calibration Verification	Pb (220.353 nm)	0.5150	0.35	2568.5456

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	Sb (217.582 nm)	4.9793	0.12	11879.6753
	Continuing Calibration Verification	Se (196.026 nm)	0.4929	1.32	321.0827
	Continuing Calibration Verification	Si (252.851 nm)	10.1473 Q	1.92	67655.3518 Q
	Continuing Calibration Verification	Sn (189.925 nm)	5.1259	0.15	13713.8810
	Continuing Calibration Verification	Sr (216.596 nm)	2.5399	0.34	49425.0900
	Continuing Calibration Verification	Ti (336.122 nm)	2.6221	0.17	415927.4509
	Continuing Calibration Verification	Tl (190.794 nm)	1.0085	0.39	933.5850
	Continuing Calibration Verification	V (292.401 nm)	2.5676	0.10	98690.4364
	Continuing Calibration Verification	Y (360.074 nm)	0.96	0.57	607405.55
	Continuing Calibration Verification	Y_R (360.074 nm)	0.96	0.57	610637.59
	Continuing Calibration Verification	Zn (213.857 nm)	1.0080	0.20	61102.9165
9/4/2024 16:06:33	Continuing Calibration Blank	Ag (328.068 nm)	0.0003	35.85	30.6418
	Continuing Calibration Blank	Al (237.312 nm)	-0.0008 u	> 100.00	-14.0660
	Continuing Calibration Blank	As (188.980 nm)	0.0024	45.29	1.6594
	Continuing Calibration Blank	B (249.772 nm)	0.0016	14.70	183.3666
	Continuing Calibration Blank	Ba (230.424 nm)	0.0002	22.32	23.0207
	Continuing Calibration Blank	Be (313.107 nm)	0.0000 u	> 100.00	-11.4343
	Continuing Calibration Blank	Ca (317.933 nm)	0.0028	5.20	3369.6904
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	9.4882
	Continuing Calibration Blank	Co (230.786 nm)	0.0000 u	> 100.00	4.1043
	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u	> 100.00	3.6217
	Continuing Calibration Blank	Cu (327.395 nm)	0.0000 u	> 100.00	1.2445
	Continuing Calibration Blank	Fe (234.350 nm)	-0.0055 u	17.95	176.2753
	Continuing Calibration Blank	K (766.491 nm)	0.2749	7.21	1088.0683
	Continuing Calibration Blank	Mg (279.078 nm)	0.0006	38.56	6.2483
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000 u	38.85	20.5886
	Continuing Calibration Blank	Mo (202.032 nm)	0.0060	13.84	72.9175
	Continuing Calibration Blank	Na (588.995 nm)	0.5111	1.91	-5821.8010
	Continuing Calibration Blank	Ni (230.299 nm)	0.0007	75.25	10.0258
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0009 u	> 100.00	-1.0419
	Continuing Calibration Blank	Sb (217.582 nm)	0.0129	7.34	30.0879
	Continuing Calibration Blank	Se (196.026 nm)	-0.0042 u	72.26	1.8043
	Continuing Calibration Blank	Si (252.851 nm)	0.0033 u	> 100.00	151.1847
	Continuing Calibration Blank	Sn (189.925 nm)	0.0005	86.35	8.6512
	Continuing Calibration Blank	Sr (216.596 nm)	-0.0001 u	73.86	4.6139
	Continuing Calibration Blank	Ti (336.122 nm)	0.0070	28.21	1193.2042
	Continuing Calibration Blank	Tl (190.794 nm)	0.0013	56.19	-1.6607
	Continuing Calibration Blank	V (292.401 nm)	-0.0001 u	81.38	6.5012
	Continuing Calibration Blank	Y (360.074 nm)	1.01	0.47	638825.04
	Continuing Calibration Blank	Y_R (360.074 nm)	1.01	0.47	642294.11
	Continuing Calibration Blank	Zn (213.857 nm)	-0.0001 u	29.12	12.3192
9/4/2024 16:09:47	R2408346-001	Ag (328.068 nm)	0.0005	38.40	42.6848
	R2408346-001	Al (237.312 nm)	0.1940	0.94	506.0756
	R2408346-001	As (188.980 nm)	0.0276	7.67	46.1125
	R2408346-001	B (249.772 nm)	4.6707	0.24	203324.0387
	R2408346-001	Ba (230.424 nm)	0.2874	0.34	17517.9349
	R2408346-001	Be (313.107 nm)	0.0000	72.10	-0.8116
	R2408346-001	Ca (317.933 nm)	208.7802 o	0.35	8097496.9609
	R2408346-001	Cd (214.439 nm)	0.0005	3.43	41.2142
	R2408346-001	Co (230.786 nm)	0.0100	2.15	213.8696
	R2408346-001	Cr (267.716 nm)	0.0563	0.25	3392.2826
	R2408346-001	Cu (327.395 nm)	0.0490	0.65	2376.7125
	R2408346-001	Fe (234.350 nm)	7.7706	0.28	177611.2386
	R2408346-001	K (766.491 nm)	202.7818 o	0.36	267888.0626
	R2408346-001	Mg (279.078 nm)	56.2690 o	0.30	239413.3324
	R2408346-001	Mn (257.610 nm)	3.2325 o	0.19	1149081.8966
	R2408346-001	Mo (202.032 nm)	0.0041	9.66	52.3101

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408346-001	Na (588.995 nm)	441.6107 o	0.95	7288446.7298
	R2408346-001	Ni (230.299 nm)	0.1020	0.62	1310.6644
	R2408346-001	Pb (220.353 nm)	0.0113	14.03	59.7638
	R2408346-001	Sb (217.582 nm)	0.0149	11.10	34.8177
	R2408346-001	Se (196.026 nm)	-0.0017 u	> 100.00	3.4255
	R2408346-001	Si (252.851 nm)	7.7825	0.21	51918.3896
	R2408346-001	Sn (189.925 nm)	0.0073	6.64	26.9501
	R2408346-001	Sr (216.596 nm)	1.4140	0.40	27517.7589
	R2408346-001	Ti (336.122 nm)	0.0141	8.31	2328.2275
	R2408346-001	Tl (190.794 nm)	0.0026	66.46	-0.4346
	R2408346-001	V (292.401 nm)	0.0109	0.38	429.5704
	R2408346-001	Y (360.074 nm)	0.87	0.63	551394.92
	R2408346-001	Y_R (360.074 nm)	0.87	0.63	554219.86
	R2408346-001	Zn (213.857 nm)	0.0977	0.22	5939.3195
9/4/2024 16:13:01	R2408346-002	Ag (328.068 nm)	0.0011	3.11	80.5131
	R2408346-002	Al (237.312 nm)	-0.0255 u	10.42	-80.0143
	R2408346-002	As (188.980 nm)	0.0104	25.58	15.7514
	R2408346-002	B (249.772 nm)	0.4954	0.25	21667.9435
	R2408346-002	Ba (230.424 nm)	0.1485	0.29	9057.7294
	R2408346-002	Be (313.107 nm)	0.0000 u	> 100.00	-9.0656
	R2408346-002	Ca (317.933 nm)	132.1694 o	0.07	5127358.0306
	R2408346-002	Cd (214.439 nm)	0.0000 u	> 100.00	14.5088
	R2408346-002	Co (230.786 nm)	0.0044	6.77	96.0605
	R2408346-002	Cr (267.716 nm)	0.0045	0.66	273.6067
	R2408346-002	Cu (327.395 nm)	0.0488	0.47	2363.8269
	R2408346-002	Fe (234.350 nm)	1.5591	0.12	35877.1002
	R2408346-002	K (766.491 nm)	24.9315	0.62	33572.7002
	R2408346-002	Mg (279.078 nm)	18.3015	0.12	77871.8761
	R2408346-002	Mn (257.610 nm)	12.4640 o	0.12	4430581.7214
	R2408346-002	Mo (202.032 nm)	0.0009	60.44	18.4123
	R2408346-002	Na (588.995 nm)	131.1911 o	0.49	2155174.6486
	R2408346-002	Ni (230.299 nm)	0.0273	0.87	351.1792
	R2408346-002	Pb (220.353 nm)	0.0072	11.65	39.2861
	R2408346-002	Sb (217.582 nm)	0.0069	24.42	15.7258
	R2408346-002	Se (196.026 nm)	0.0043	53.03	7.2824
	R2408346-002	Si (252.851 nm)	3.8766	0.18	25926.1616
	R2408346-002	Sn (189.925 nm)	0.0016	7.34	11.6769
	R2408346-002	Sr (216.596 nm)	0.3240	0.08	6311.0072
	R2408346-002	Ti (336.122 nm)	0.0018	28.73	372.9535
	R2408346-002	Tl (190.794 nm)	0.0062	31.95	2.8547
	R2408346-002	V (292.401 nm)	0.0007	11.12	36.5969
	R2408346-002	Y (360.074 nm)	0.93	0.69	590372.93
	R2408346-002	Y_R (360.074 nm)	0.93	0.68	593376.74
	R2408346-002	Zn (213.857 nm)	0.0319	0.03	1950.4994
9/4/2024 16:16:15	R2408346-003	Ag (328.068 nm)	0.0006	10.79	52.0331
	R2408346-003	Al (237.312 nm)	1.5727	0.33	4186.8128
	R2408346-003	As (188.980 nm)	0.0796	1.78	137.8720
	R2408346-003	B (249.772 nm)	3.5062	0.03	152656.1502
	R2408346-003	Ba (230.424 nm)	0.4769	0.13	29062.9570
	R2408346-003	Be (313.107 nm)	0.0000	6.56	28.6629
	R2408346-003	Ca (317.933 nm)	133.5027 o	0.17	5179050.6451
	R2408346-003	Cd (214.439 nm)	0.0013	2.45	94.1086
	R2408346-003	Co (230.786 nm)	0.0079	4.99	169.5285
	R2408346-003	Cr (267.716 nm)	0.0808	0.11	4871.5717
	R2408346-003	Cu (327.395 nm)	0.1126	0.25	5456.8663
	R2408346-003	Fe (234.350 nm)	50.4225 o	0.12	1150852.6452
	R2408346-003	K (766.491 nm)	191.5634 o	0.53	253107.9683

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408346-003	Mg (279.078 nm)	45.9933	0.13	195693.0655
	R2408346-003	Mn (257.610 nm)	4.1059 o	0.01	1459526.1258
	R2408346-003	Mo (202.032 nm)	0.0018	18.64	27.9920
	R2408346-003	Na (588.995 nm)	414.0856 o	1.02	6833276.1727
	R2408346-003	Ni (230.299 nm)	0.0887	0.11	1140.8406
	R2408346-003	Pb (220.353 nm)	0.0241	3.71	123.5393
	R2408346-003	Sb (217.582 nm)	0.0060	27.24	13.7070
	R2408346-003	Se (196.026 nm)	-0.0003 u	> 100.00	4.3374
	R2408346-003	Si (252.851 nm)	8.4283	0.10	56216.2493
	R2408346-003	Sn (189.925 nm)	0.0157	3.23	49.3828
	R2408346-003	Sr (216.596 nm)	0.6017	0.15	11713.0571
	R2408346-003	Ti (336.122 nm)	0.0435	2.10	6980.8482
	R2408346-003	Tl (190.794 nm)	0.0026	45.01	-0.4458
	R2408346-003	V (292.401 nm)	0.0281	0.51	1090.6825
	R2408346-003	Y (360.074 nm)	0.88	0.68	558271.87
	R2408346-003	Y_R (360.074 nm)	0.88	0.68	560733.29
	R2408346-003	Zn (213.857 nm)	0.1401	0.25	8512.7044
9/4/2024 16:19:30	R2408347-001	Ag (328.068 nm)	0.0000 u	> 100.00	14.2789
	R2408347-001	Al (237.312 nm)	0.0337	1.84	78.1385
	R2408347-001	As (188.980 nm)	0.0025	17.11	1.8515
	R2408347-001	B (249.772 nm)	0.1660	0.30	7335.7888
	R2408347-001	Ba (230.424 nm)	0.0788	0.27	4812.3212
	R2408347-001	Be (313.107 nm)	0.0000 u	64.03	-16.1196
	R2408347-001	Ca (317.933 nm)	4.6973	0.20	185372.3083
	R2408347-001	Cd (214.439 nm)	0.0000 u	> 100.00	11.3781
	R2408347-001	Co (230.786 nm)	0.0000 u	> 100.00	2.7816
	R2408347-001	Cr (267.716 nm)	0.0005	14.16	32.2676
	R2408347-001	Cu (327.395 nm)	0.3186	0.14	15432.8385
	R2408347-001	Fe (234.350 nm)	1.0049	0.45	23231.4308
	R2408347-001	K (766.491 nm)	1.3365	3.12	2486.7403
	R2408347-001	Mg (279.078 nm)	1.3024	0.24	5545.0777
	R2408347-001	Mn (257.610 nm)	0.0204	0.11	7278.1505
	R2408347-001	Mo (202.032 nm)	0.0010	29.70	19.3910
	R2408347-001	Na (588.995 nm)	74.0146 o	0.23	1209673.1023
	R2408347-001	Ni (230.299 nm)	0.0096	1.62	125.0303
	R2408347-001	Pb (220.353 nm)	-0.0005 u	> 100.00	0.7024
	R2408347-001	Sb (217.582 nm)	0.0055	12.46	12.4315
	R2408347-001	Se (196.026 nm)	-0.0038 u	80.45	2.0588
	R2408347-001	Si (252.851 nm)	2.8825	0.09	19311.3512
	R2408347-001	Sn (189.925 nm)	0.0000 u	> 100.00	7.2755
	R2408347-001	Sr (216.596 nm)	0.1497	0.44	2918.6950
	R2408347-001	Ti (336.122 nm)	0.0010	38.40	253.4120
	R2408347-001	Tl (190.794 nm)	0.0000 u	> 100.00	-2.8255
	R2408347-001	V (292.401 nm)	0.0003	23.38	21.3510
	R2408347-001	Y (360.074 nm)	0.97	0.47	616849.55
	R2408347-001	Y_R (360.074 nm)	0.97	0.47	619723.00
	R2408347-001	Zn (213.857 nm)	0.0113	1.50	707.0577
9/4/2024 16:22:45	R2408347-002	Ag (328.068 nm)	0.0002	45.62	22.1071
	R2408347-002	Al (237.312 nm)	0.0188	10.22	38.3636
	R2408347-002	As (188.980 nm)	0.0021	> 100.00	1.1111
	R2408347-002	B (249.772 nm)	0.1674	0.19	7397.9179
	R2408347-002	Ba (230.424 nm)	0.0525	0.25	3208.3873
	R2408347-002	Be (313.107 nm)	0.0000 u	> 100.00	-11.4602
	R2408347-002	Ca (317.933 nm)	3.5162	0.14	139581.4168
	R2408347-002	Cd (214.439 nm)	0.0000 u	> 100.00	10.9653
	R2408347-002	Co (230.786 nm)	0.0007	10.23	18.6055
	R2408347-002	Cr (267.716 nm)	0.0004	23.60	25.2653

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408347-002	Cu (327.395 nm)	0.0069	3.17	333.6596
	R2408347-002	Fe (234.350 nm)	0.0368	4.88	1141.7312
	R2408347-002	K (766.491 nm)	1.3495	2.90	2503.8241
	R2408347-002	Mg (279.078 nm)	0.9667	0.03	4116.7994
	R2408347-002	Mn (257.610 nm)	0.0133	0.11	4747.9788
	R2408347-002	Mo (202.032 nm)	0.0010	16.76	18.9452
	R2408347-002	Na (588.995 nm)	74.0564 o	0.44	1210363.1738
	R2408347-002	Ni (230.299 nm)	0.0117	1.79	151.4990
	R2408347-002	Pb (220.353 nm)	-0.0004 u	79.61	1.4431
	R2408347-002	Sb (217.582 nm)	0.0062	17.31	14.1811
	R2408347-002	Se (196.026 nm)	-0.0040 u	99.41	1.9392
	R2408347-002	Si (252.851 nm)	2.7991	0.06	18756.3733
	R2408347-002	Sn (189.925 nm)	0.0000 u	> 100.00	7.3375
	R2408347-002	Sr (216.596 nm)	0.1089	0.25	2125.9972
	R2408347-002	Ti (336.122 nm)	0.0007	43.79	194.1776
	R2408347-002	Tl (190.794 nm)	0.0025	61.07	-0.5824
	R2408347-002	V (292.401 nm)	0.0000 u	> 100.00	12.4857
	R2408347-002	Y (360.074 nm)	0.98	0.52	617725.29
	R2408347-002	Y_R (360.074 nm)	0.97	0.52	620686.44
	R2408347-002	Zn (213.857 nm)	0.0103	0.66	643.7334
9/4/2024 16:25:59	R2408347-003	Ag (328.068 nm)	0.0000 u	> 100.00	15.0495
	R2408347-003	Al (237.312 nm)	0.1130	0.40	289.6976
	R2408347-003	As (188.980 nm)	0.0013 u	> 100.00	-0.4058
	R2408347-003	B (249.772 nm)	0.0144	0.90	740.0726
	R2408347-003	Ba (230.424 nm)	0.0915	0.47	5582.0465
	R2408347-003	Be (313.107 nm)	0.0000 u	> 100.00	-13.0567
	R2408347-003	Ca (317.933 nm)	23.5216	0.33	915171.9877
	R2408347-003	Cd (214.439 nm)	0.0001	91.94	16.9707
	R2408347-003	Co (230.786 nm)	0.0001 u	> 100.00	5.7826
	R2408347-003	Cr (267.716 nm)	0.0006	14.62	42.0348
	R2408347-003	Cu (327.395 nm)	0.0013	19.08	63.5653
	R2408347-003	Fe (234.350 nm)	0.3413	0.36	8089.6236
	R2408347-003	K (766.491 nm)	4.0265	0.81	6030.7366
	R2408347-003	Mg (279.078 nm)	6.4196	0.34	27317.5945
	R2408347-003	Mn (257.610 nm)	0.0176	0.37	6300.8928
	R2408347-003	Mo (202.032 nm)	0.0002	41.57	10.4837
	R2408347-003	Na (588.995 nm)	98.7124 o	0.72	1618089.1303
	R2408347-003	Ni (230.299 nm)	0.0095	5.33	123.7169
	R2408347-003	Pb (220.353 nm)	0.0008 u	> 100.00	7.0083
	R2408347-003	Sb (217.582 nm)	0.0048	5.39	10.8423
	R2408347-003	Se (196.026 nm)	-0.0052 u	15.56	1.2077
	R2408347-003	Si (252.851 nm)	2.6100	0.35	17497.6523
	R2408347-003	Sn (189.925 nm)	-0.0005 u	> 100.00	6.1852
	R2408347-003	Sr (216.596 nm)	0.0836	0.12	1633.2820
	R2408347-003	Ti (336.122 nm)	0.0047	3.28	830.7229
	R2408347-003	Tl (190.794 nm)	0.0013	48.16	-1.6645
	R2408347-003	V (292.401 nm)	0.0003	32.94	21.7524
	R2408347-003	Y (360.074 nm)	0.96	0.84	607540.41
	R2408347-003	Y_R (360.074 nm)	0.96	0.84	610455.11
	R2408347-003	Zn (213.857 nm)	0.0149	0.78	925.8095
9/4/2024 16:29:12	R2408347-004	Ag (328.068 nm)	0.0001 u	> 100.00	19.9054
	R2408347-004	Al (237.312 nm)	-0.0001 u	> 100.00	-12.1976
	R2408347-004	As (188.980 nm)	-0.0006 u	34.40	-3.6417
	R2408347-004	B (249.772 nm)	0.0135	0.62	698.1529
	R2408347-004	Ba (230.424 nm)	0.0961	0.17	5867.0886
	R2408347-004	Be (313.107 nm)	0.0000 u	> 100.00	-10.0677
	R2408347-004	Ca (317.933 nm)	24.9404	0.17	970179.6395

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408347-004	Cd (214.439 nm)	0.0001	13.52	18.6065
	R2408347-004	Co (230.786 nm)	0.0001 u	> 100.00	5.3452
	R2408347-004	Cr (267.716 nm)	0.0001	83.27	9.0352
	R2408347-004	Cu (327.395 nm)	0.0005	26.23	27.1337
	R2408347-004	Fe (234.350 nm)	0.0003 u	> 100.00	308.0524
	R2408347-004	K (766.491 nm)	3.9386	0.82	5914.9447
	R2408347-004	Mg (279.078 nm)	6.8423	0.18	29115.8827
	R2408347-004	Mn (257.610 nm)	0.0102	0.38	3664.9487
	R2408347-004	Mo (202.032 nm)	0.0002	73.21	10.7496
	R2408347-004	Na (588.995 nm)	102.2553 o	0.37	1676676.8552
	R2408347-004	Ni (230.299 nm)	0.0092	6.63	119.1497
	R2408347-004	Pb (220.353 nm)	-0.0003 u	> 100.00	1.5596
	R2408347-004	Sb (217.582 nm)	0.0028	56.33	5.9986
	R2408347-004	Se (196.026 nm)	-0.0026 u	> 100.00	2.8616
	R2408347-004	Si (252.851 nm)	2.5264	0.11	16941.5226
	R2408347-004	Sn (189.925 nm)	-0.0010 u	> 100.00	4.8341
	R2408347-004	Sr (216.596 nm)	0.0818	0.11	1598.5752
	R2408347-004	Ti (336.122 nm)	0.0002 u	> 100.00	128.2545
	R2408347-004	Tl (190.794 nm)	0.0028	45.69	-0.2380
	R2408347-004	V (292.401 nm)	0.0000	> 100.00	12.2590
	R2408347-004	Y (360.074 nm)	0.96	0.49	607279.51
	R2408347-004	Y_R (360.074 nm)	0.96	0.50	610256.35
	R2408347-004	Zn (213.857 nm)	0.0160	0.32	989.4198
9/4/2024 16:32:27	R2408347-005	Ag (328.068 nm)	0.0001 u	> 100.00	16.3502
	R2408347-005	Al (237.312 nm)	0.0060	29.31	4.1093
	R2408347-005	As (188.980 nm)	-0.0003 u	> 100.00	-3.1321
	R2408347-005	B (249.772 nm)	0.0085	1.25	482.9828
	R2408347-005	Ba (230.424 nm)	0.0240	1.28	1469.7977
	R2408347-005	Be (313.107 nm)	0.0000 u	19.89	-16.5100
	R2408347-005	Ca (317.933 nm)	7.3103	0.20	286674.8582
	R2408347-005	Cd (214.439 nm)	0.0000 u	33.40	8.9464
	R2408347-005	Co (230.786 nm)	0.0001	85.31	4.6410
	R2408347-005	Cr (267.716 nm)	0.0007	11.86	42.7574
	R2408347-005	Cu (327.395 nm)	0.0001	42.39	6.8258
	R2408347-005	Fe (234.350 nm)	0.0061	6.12	440.7776
	R2408347-005	K (766.491 nm)	1.3804	2.79	2544.5418
	R2408347-005	Mg (279.078 nm)	1.9080	0.06	8121.7341
	R2408347-005	Mn (257.610 nm)	0.0004	4.77	157.5250
	R2408347-005	Mo (202.032 nm)	0.0000 u	> 100.00	8.6272
	R2408347-005	Na (588.995 nm)	48.3029	0.48	784489.2722
	R2408347-005	Ni (230.299 nm)	0.0072	2.66	93.2774
	R2408347-005	Pb (220.353 nm)	-0.0009 u	44.36	-1.3377
	R2408347-005	Sb (217.582 nm)	0.0053	16.53	11.9772
	R2408347-005	Se (196.026 nm)	-0.0053 u	81.29	1.0953
	R2408347-005	Si (252.851 nm)	2.1520	0.17	14449.5678
	R2408347-005	Sn (189.925 nm)	0.0001 u	> 100.00	7.6352
	R2408347-005	Sr (216.596 nm)	0.0262	0.37	516.8360
	R2408347-005	Ti (336.122 nm)	0.0004	45.26	150.8650
	R2408347-005	Tl (190.794 nm)	-0.0001 u	> 100.00	-2.9186
	R2408347-005	V (292.401 nm)	0.0001	22.36	14.5038
	R2408347-005	Y (360.074 nm)	0.98	0.57	621515.45
	R2408347-005	Y_R (360.074 nm)	0.98	0.58	624736.62
	R2408347-005	Zn (213.857 nm)	0.0010	11.16	81.8913
9/4/2024 16:35:40	Continuing Calibration Verification	Ag (328.068 nm)	0.5108	0.11	32085.7064
	Continuing Calibration Verification	Al (237.312 nm)	10.0027	0.30	26693.2579
	Continuing Calibration Verification	As (188.980 nm)	0.9883	0.20	1741.1851
	Continuing Calibration Verification	B (249.772 nm)	2.3203	0.17	101064.7099

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	Ba (230.424 nm)	9.9847	0.49	608288.9815
	Continuing Calibration Verification	Be (313.107 nm)	0.2496	0.12	306989.6478
	Continuing Calibration Verification	Ca (317.933 nm)	25.7720	0.21	1002418.9450
	Continuing Calibration Verification	Cd (214.439 nm)	0.5045	0.14	31848.6959
	Continuing Calibration Verification	Co (230.786 nm)	2.5167	0.33	53212.9460
	Continuing Calibration Verification	Cr (267.716 nm)	0.5175	0.08	31174.5099
	Continuing Calibration Verification	Cu (327.395 nm)	1.2346	0.29	59790.5296
	Continuing Calibration Verification	Fe (234.350 nm)	5.0477	0.11	115481.0883
	Continuing Calibration Verification	K (766.491 nm)	25.1106	0.29	33808.7516
	Continuing Calibration Verification	Mg (279.078 nm)	25.6339	0.21	109069.2776
	Continuing Calibration Verification	Mn (257.610 nm)	0.7488	0.16	266194.3421
	Continuing Calibration Verification	Mo (202.032 nm)	2.5968	0.28	27706.0504
	Continuing Calibration Verification	Na (588.995 nm)	25.1726	0.51	401994.3123
	Continuing Calibration Verification	Ni (230.299 nm)	2.0428	0.17	26238.0568
	Continuing Calibration Verification	Pb (220.353 nm)	0.5120	0.14	2553.9027
	Continuing Calibration Verification	Sb (217.582 nm)	4.9760	0.05	11871.7237
	Continuing Calibration Verification	Se (196.026 nm)	0.4881	0.50	318.0206
	Continuing Calibration Verification	Si (252.851 nm)	10.0823 Q	1.67	67222.8118 Q
	Continuing Calibration Verification	Sn (189.925 nm)	5.1108	0.18	13673.7322
	Continuing Calibration Verification	Sr (216.596 nm)	2.5242	0.46	49119.1983
	Continuing Calibration Verification	Ti (336.122 nm)	2.6145	0.02	414722.1507
	Continuing Calibration Verification	Tl (190.794 nm)	1.0058	0.20	931.1318
	Continuing Calibration Verification	V (292.401 nm)	2.5607	0.19	98427.5066
	Continuing Calibration Verification	Y (360.074 nm)	0.96	0.68	608974.69
	Continuing Calibration Verification	Y_R (360.074 nm)	0.96	0.68	612164.30
	Continuing Calibration Verification	Zn (213.857 nm)	1.0034	0.11	60828.3316
9/4/2024 16:38:54	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u	> 100.00	13.4176
	Continuing Calibration Blank	Al (237.312 nm)	0.0004 u	> 100.00	-10.8799
	Continuing Calibration Blank	As (188.980 nm)	0.0031	21.79	2.8807
	Continuing Calibration Blank	B (249.772 nm)	0.0014	23.33	173.2348
	Continuing Calibration Blank	Ba (230.424 nm)	0.0004	6.87	32.1094
	Continuing Calibration Blank	Be (313.107 nm)	0.0000 u	> 100.00	-10.4396
	Continuing Calibration Blank	Ca (317.933 nm)	0.0034	19.67	3393.0338
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	49.22	8.6655
	Continuing Calibration Blank	Co (230.786 nm)	0.0002 u	> 100.00	7.2629
	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u	> 100.00	4.2056
	Continuing Calibration Blank	Cu (327.395 nm)	0.0001	> 100.00	4.2693
	Continuing Calibration Blank	Fe (234.350 nm)	-0.0051 u	21.23	184.9394
	Continuing Calibration Blank	K (766.491 nm)	0.2467	2.65	1050.9233
	Continuing Calibration Blank	Mg (279.078 nm)	0.0001 u	> 100.00	4.3136
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000 u	93.30	26.5024
	Continuing Calibration Blank	Mo (202.032 nm)	0.0063	14.64	75.3324
	Continuing Calibration Blank	Na (588.995 nm)	0.2396	4.74	-10312.8007
	Continuing Calibration Blank	Ni (230.299 nm)	0.0002 u	> 100.00	3.8794
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0012 u	23.46	-2.5076
	Continuing Calibration Blank	Sb (217.582 nm)	0.0125	13.06	29.2153
	Continuing Calibration Blank	Se (196.026 nm)	-0.0034 u	89.24	2.3126
	Continuing Calibration Blank	Si (252.851 nm)	0.0072	63.52	177.2401
	Continuing Calibration Blank	Sn (189.925 nm)	0.0002 u	> 100.00	7.9616
	Continuing Calibration Blank	Sr (216.596 nm)	0.0000 u	> 100.00	7.3798
	Continuing Calibration Blank	Ti (336.122 nm)	0.0071	27.80	1220.6495
	Continuing Calibration Blank	Tl (190.794 nm)	0.0011	51.65	-1.7994
	Continuing Calibration Blank	V (292.401 nm)	0.0002	86.29	20.0140
	Continuing Calibration Blank	Y (360.074 nm)	1.00	1.57	631145.82
	Continuing Calibration Blank	Y_R (360.074 nm)	1.00	1.57	634460.80
	Continuing Calibration Blank	Zn (213.857 nm)	-0.0001 u	15.57	13.8475
9/4/2024 16:42:08	R2408347-006	Ag (328.068 nm)	0.0001	83.79	16.5157

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408347-006	Al (237.312 nm)	0.0411	3.13	97.8958
	R2408347-006	As (188.980 nm)	0.0006	85.73	-1.6648
	R2408347-006	B (249.772 nm)	0.0089	0.17	500.3779
	R2408347-006	Ba (230.424 nm)	0.0226	0.66	1387.4641
	R2408347-006	Be (313.107 nm)	0.0000 u	> 100.00	-12.3659
	R2408347-006	Ca (317.933 nm)	6.1371	0.11	241189.2768
	R2408347-006	Cd (214.439 nm)	0.0000 u	> 100.00	11.8549
	R2408347-006	Co (230.786 nm)	0.0021	5.65	46.8353
	R2408347-006	Cr (267.716 nm)	0.0003	22.45	22.6349
	R2408347-006	Cu (327.395 nm)	0.0108	0.63	522.3450
	R2408347-006	Fe (234.350 nm)	-0.0005 u	> 100.00	290.2588
	R2408347-006	K (766.491 nm)	1.3035	1.79	2443.2254
	R2408347-006	Mg (279.078 nm)	1.6085	0.19	6847.3840
	R2408347-006	Mn (257.610 nm)	0.0009	1.42	348.0884
	R2408347-006	Mo (202.032 nm)	0.0014	30.17	23.0994
	R2408347-006	Na (588.995 nm)	46.8076	0.53	759762.0690
	R2408347-006	Ni (230.299 nm)	0.0085	2.74	110.1672
	R2408347-006	Pb (220.353 nm)	-0.0004 u	82.38	1.2848
	R2408347-006	Sb (217.582 nm)	0.0133	2.98	30.9983
	R2408347-006	Se (196.026 nm)	0.0037	84.91	6.9191
	R2408347-006	Si (252.851 nm)	2.0718	0.14	13915.8828
	R2408347-006	Sn (189.925 nm)	0.0005	80.27	8.7331
	R2408347-006	Sr (216.596 nm)	0.0348	0.05	682.9019
	R2408347-006	Ti (336.122 nm)	0.0025	37.70	491.7387
	R2408347-006	Tl (190.794 nm)	0.0008 u	> 100.00	-2.1263
	R2408347-006	V (292.401 nm)	0.0000 u	> 100.00	11.3852
	R2408347-006	Y (360.074 nm)	0.98	0.58	621544.22
	R2408347-006	Y_R (360.074 nm)	0.98	0.58	624755.48
	R2408347-006	Zn (213.857 nm)	0.0156	0.91	967.3515
9/4/2024 16:45:22	R2408347-007	Ag (328.068 nm)	0.0001 u	> 100.00	15.6892
	R2408347-007	Al (237.312 nm)	0.0096	4.51	13.7490
	R2408347-007	As (188.980 nm)	0.0023	26.95	1.3723
	R2408347-007	B (249.772 nm)	0.0073	3.68	432.3786
	R2408347-007	Ba (230.424 nm)	0.0152	0.74	937.8548
	R2408347-007	Be (313.107 nm)	0.0000 u	> 100.00	-8.1641
	R2408347-007	Ca (317.933 nm)	6.9223	0.26	271631.9867
	R2408347-007	Cd (214.439 nm)	0.0000	85.53	12.9300
	R2408347-007	Co (230.786 nm)	-0.0001 u	> 100.00	2.2708
	R2408347-007	Cr (267.716 nm)	0.0008	1.69	52.3948
	R2408347-007	Cu (327.395 nm)	0.0003	62.36	15.8124
	R2408347-007	Fe (234.350 nm)	0.0103	4.07	534.9281
	R2408347-007	K (766.491 nm)	0.6863	2.00	1630.0359
	R2408347-007	Mg (279.078 nm)	1.8779	0.34	7993.9169
	R2408347-007	Mn (257.610 nm)	0.0003	4.88	138.0105
	R2408347-007	Mo (202.032 nm)	0.0008	28.57	17.1954
	R2408347-007	Na (588.995 nm)	4.8086	0.32	65243.0559
	R2408347-007	Ni (230.299 nm)	0.0059	3.84	77.1979
	R2408347-007	Pb (220.353 nm)	0.0001 u	> 100.00	3.7743
	R2408347-007	Sb (217.582 nm)	0.0083	16.81	19.0204
	R2408347-007	Se (196.026 nm)	-0.0017 u	> 100.00	3.4608
	R2408347-007	Si (252.851 nm)	1.7966	0.27	12084.8679
	R2408347-007	Sn (189.925 nm)	0.0000 u	> 100.00	7.4621
	R2408347-007	Sr (216.596 nm)	0.0159	1.46	315.1076
	R2408347-007	Ti (336.122 nm)	0.0015	37.30	326.3434
	R2408347-007	Tl (190.794 nm)	-0.0005 u	> 100.00	-3.3052
	R2408347-007	V (292.401 nm)	0.0000 u	> 100.00	11.1232
	R2408347-007	Y (360.074 nm)	1.01	0.55	637368.95

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408347-007	Y_R (360.074 nm)	1.01	0.55	640717.43
	R2408347-007	Zn (213.857 nm)	0.0010	4.37	77.7220
9/4/2024 16:48:36	R2408347-008	Ag (328.068 nm)	0.0001 u	> 100.00	19.1936
	R2408347-008	Al (237.312 nm)	0.0110	14.39	17.4787
	R2408347-008	As (188.980 nm)	0.0008	79.75	-1.2476
	R2408347-008	B (249.772 nm)	0.0073	1.17	428.7897
	R2408347-008	Ba (230.424 nm)	0.0140	0.52	860.5662
	R2408347-008	Be (313.107 nm)	0.0000 u	> 100.00	-12.5671
	R2408347-008	Ca (317.933 nm)	5.7134	0.18	224765.4285
	R2408347-008	Cd (214.439 nm)	0.0000 u	> 100.00	10.7057
	R2408347-008	Co (230.786 nm)	0.0004	34.62	12.2266
	R2408347-008	Cr (267.716 nm)	0.0004	23.56	29.4803
	R2408347-008	Cu (327.395 nm)	0.0151	2.14	734.7406
	R2408347-008	Fe (234.350 nm)	0.0057	4.22	431.0719
	R2408347-008	K (766.491 nm)	0.7016	0.60	1650.2492
	R2408347-008	Mg (279.078 nm)	1.5336	0.12	6528.9882
	R2408347-008	Mn (257.610 nm)	0.0030	0.41	1089.5109
	R2408347-008	Mo (202.032 nm)	0.0004	43.66	12.2432
	R2408347-008	Na (588.995 nm)	4.8294	0.43	65587.9088
	R2408347-008	Ni (230.299 nm)	0.0076	6.14	99.1247
	R2408347-008	Pb (220.353 nm)	-0.0002 u	> 100.00	2.1188
	R2408347-008	Sb (217.582 nm)	0.0063	13.68	14.4731
	R2408347-008	Se (196.026 nm)	-0.0025 u	> 100.00	2.9440
	R2408347-008	Si (252.851 nm)	1.7956	0.26	12078.0060
	R2408347-008	Sn (189.925 nm)	-0.0005 u	> 100.00	6.0659
	R2408347-008	Sr (216.596 nm)	0.0167	0.81	330.8214
	R2408347-008	Ti (336.122 nm)	0.0040	10.31	721.0193
	R2408347-008	Tl (190.794 nm)	0.0018	71.91	-1.2377
	R2408347-008	V (292.401 nm)	0.0000 u	> 100.00	11.1909
	R2408347-008	Y (360.074 nm)	1.01	0.52	637810.48
	R2408347-008	Y_R (360.074 nm)	1.01	0.52	641290.70
	R2408347-008	Zn (213.857 nm)	0.0400	0.28	2445.3393
9/4/2024 16:51:50	R2408349-001	Ag (328.068 nm)	0.0001	86.90	16.2849
	R2408349-001	Al (237.312 nm)	0.0237	3.55	51.4033
	R2408349-001	As (188.980 nm)	0.0014	81.81	-0.2528
	R2408349-001	B (249.772 nm)	0.0116	0.69	619.2804
	R2408349-001	Ba (230.424 nm)	0.0277	0.33	1698.4325
	R2408349-001	Be (313.107 nm)	0.0000 u	> 100.00	-12.2258
	R2408349-001	Ca (317.933 nm)	11.8160	0.61	461356.0738
	R2408349-001	Cd (214.439 nm)	0.0000	79.40	12.9612
	R2408349-001	Co (230.786 nm)	-0.0001 u	33.63	1.6375
	R2408349-001	Cr (267.716 nm)	0.0004	4.82	28.4398
	R2408349-001	Cu (327.395 nm)	0.0002	75.58	10.0350
	R2408349-001	Fe (234.350 nm)	0.0394	0.60	1199.7949
	R2408349-001	K (766.491 nm)	1.1917	1.14	2295.8434
	R2408349-001	Mg (279.078 nm)	2.8040	0.59	11934.1549
	R2408349-001	Mn (257.610 nm)	0.0410	0.75	14603.3692
	R2408349-001	Mo (202.032 nm)	0.0003	25.73	11.5955
	R2408349-001	Na (588.995 nm)	14.4147	1.20	224094.8478
	R2408349-001	Ni (230.299 nm)	0.0019	11.51	25.2945
	R2408349-001	Pb (220.353 nm)	-0.0002 u	> 100.00	2.0450
	R2408349-001	Sb (217.582 nm)	0.0056	16.80	12.7413
	R2408349-001	Se (196.026 nm)	-0.0063 u	74.66	0.4507
	R2408349-001	Si (252.851 nm)	0.6647	0.19	4552.4626
	R2408349-001	Sn (189.925 nm)	0.0001 u	> 100.00	7.7552
	R2408349-001	Sr (216.596 nm)	0.0324	0.86	636.8032
	R2408349-001	Ti (336.122 nm)	0.0008	31.55	217.4606

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408349-001	Tl (190.794 nm)	0.0009 u	> 100.00	-2.0304
	R2408349-001	V (292.401 nm)	0.0000 u	> 100.00	9.9001
	R2408349-001	Y (360.074 nm)	0.99	1.21	627609.27
	R2408349-001	Y_R (360.074 nm)	0.99	1.21	631016.26
	R2408349-001	Zn (213.857 nm)	0.0014	2.45	107.5085
9/4/2024 16:55:04	R2408349-002	Ag (328.068 nm)	0.0001 u	> 100.00	17.8274
	R2408349-002	Al (237.312 nm)	0.0252	5.13	55.4203
	R2408349-002	As (188.980 nm)	-0.0006 u	> 100.00	-3.6915
	R2408349-002	B (249.772 nm)	0.0098	2.25	540.0548
	R2408349-002	Ba (230.424 nm)	0.0274	0.21	1677.5473
	R2408349-002	Be (313.107 nm)	0.0000 u	> 100.00	-12.3097
	R2408349-002	Ca (317.933 nm)	11.5118	0.21	449564.8580
	R2408349-002	Cd (214.439 nm)	0.0000 u	> 100.00	10.5633
	R2408349-002	Co (230.786 nm)	0.0002	40.96	6.9023
	R2408349-002	Cr (267.716 nm)	0.0004	23.59	25.8248
	R2408349-002	Cu (327.395 nm)	0.0005	55.33	24.1000
	R2408349-002	Fe (234.350 nm)	0.0447	0.48	1320.6824
	R2408349-002	K (766.491 nm)	1.1320	1.95	2217.2042
	R2408349-002	Mg (279.078 nm)	2.7133	0.21	11547.9565
	R2408349-002	Mn (257.610 nm)	0.0418	0.15	14887.5523
	R2408349-002	Mo (202.032 nm)	0.0004	39.39	12.1670
	R2408349-002	Na (588.995 nm)	14.1733	0.44	220103.5401
	R2408349-002	Ni (230.299 nm)	0.0025	23.38	32.6629
	R2408349-002	Pb (220.353 nm)	-0.0007 u	> 100.00	-0.3649
	R2408349-002	Sb (217.582 nm)	0.0049	6.80	11.0094
	R2408349-002	Se (196.026 nm)	-0.0037 u	58.24	2.1383
	R2408349-002	Si (252.851 nm)	0.6340	0.58	4348.0032
	R2408349-002	Sn (189.925 nm)	-0.0005 u	91.39	6.0285
	R2408349-002	Sr (216.596 nm)	0.0319	0.65	626.1902
	R2408349-002	Ti (336.122 nm)	0.0007	26.37	193.9407
	R2408349-002	Tl (190.794 nm)	0.0014	18.15	-1.5396
	R2408349-002	V (292.401 nm)	0.0002	42.13	17.6124
	R2408349-002	Y (360.074 nm)	1.00	0.65	630696.29
	R2408349-002	Y_R (360.074 nm)	0.99	0.66	634100.95
	R2408349-002	Zn (213.857 nm)	0.0014	5.60	107.0976
9/4/2024 16:58:18	R2408349-002L 5X	Ag (328.068 nm)	0.0001	31.12	21.1075
	R2408349-002L 5X	Al (237.312 nm)	0.0052	35.41	2.0251
	R2408349-002L 5X	As (188.980 nm)	-0.0002 u	> 100.00	-3.0036
	R2408349-002L 5X	B (249.772 nm)	0.0013	10.06	169.8944
	R2408349-002L 5X	Ba (230.424 nm)	0.0053	0.93	334.0413
	R2408349-002L 5X	Be (313.107 nm)	0.0000 u	> 100.00	-13.9291
	R2408349-002L 5X	Ca (317.933 nm)	2.2270	1.39	89599.2338
	R2408349-002L 5X	Cd (214.439 nm)	0.0000 u	32.39	9.0071
	R2408349-002L 5X	Co (230.786 nm)	0.0000 u	> 100.00	2.8264
	R2408349-002L 5X	Cr (267.716 nm)	0.0001 u	> 100.00	12.0334
	R2408349-002L 5X	Cu (327.395 nm)	0.0000 u	> 100.00	2.9845
	R2408349-002L 5X	Fe (234.350 nm)	0.0005	27.80	312.0039
	R2408349-002L 5X	K (766.491 nm)	0.2478	10.95	1052.3260
	R2408349-002L 5X	Mg (279.078 nm)	0.5283	1.33	2251.4267
	R2408349-002L 5X	Mn (257.610 nm)	0.0081	1.34	2921.0504
	R2408349-002L 5X	Mo (202.032 nm)	-0.0001 u	> 100.00	7.3869
	R2408349-002L 5X	Na (588.995 nm)	2.8706	1.86	33196.4158
	R2408349-002L 5X	Ni (230.299 nm)	0.0002 u	> 100.00	3.8850
	R2408349-002L 5X	Pb (220.353 nm)	-0.0008 u	22.06	-0.7261
	R2408349-002L 5X	Sb (217.582 nm)	0.0031	24.13	6.7974
	R2408349-002L 5X	Se (196.026 nm)	-0.0081 u	47.17	-0.6976
	R2408349-002L 5X	Si (252.851 nm)	0.1208	1.71	933.2489

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408349-002L 5X	Sn (189.925 nm)	-0.0007 u	26.24	5.5031
	R2408349-002L 5X	Sr (216.596 nm)	0.0061	3.26	125.9347
	R2408349-002L 5X	Ti (336.122 nm)	0.0002	87.72	126.3867
	R2408349-002L 5X	Tl (190.794 nm)	0.0029	85.07	-0.1834
	R2408349-002L 5X	V (292.401 nm)	0.0000 u	> 100.00	10.2765
	R2408349-002L 5X	Y (360.074 nm)	1.01	0.60	639222.27
	R2408349-002L 5X	Y_R (360.074 nm)	1.01	0.60	642732.28
	R2408349-002L 5X	Zn (213.857 nm)	0.0002	12.69	31.5672
9/4/2024 17:01:33	R2408146-077 5X	Ag (328.068 nm)	0.0002	69.35	24.7281
	R2408146-077 5X	Al (237.312 nm)	0.0181	8.72	36.3237
	R2408146-077 5X	As (188.980 nm)	4.4042 o	2.09	7768.4072
	R2408146-077 5X	B (249.772 nm)	0.1798	2.08	7936.3312
	R2408146-077 5X	Ba (230.424 nm)	0.0025	4.09	163.5177
	R2408146-077 5X	Be (313.107 nm)	0.0000 u	> 100.00	-14.1708
	R2408146-077 5X	Ca (317.933 nm)	0.4377	1.79	20229.7017
	R2408146-077 5X	Cd (214.439 nm)	0.0000 u	> 100.00	13.4599
	R2408146-077 5X	Co (230.786 nm)	0.0027	3.50	61.2999
	R2408146-077 5X	Cr (267.716 nm)	0.0029	3.68	177.3236
	R2408146-077 5X	Cu (327.395 nm)	0.0416	2.25	2015.6681
	R2408146-077 5X	Fe (234.350 nm)	0.2810	2.02	6713.3544
	R2408146-077 5X	K (766.491 nm)	12.8919	1.91	17710.7598
	R2408146-077 5X	Mg (279.078 nm)	1.5669	1.77	6670.3532
	R2408146-077 5X	Mn (257.610 nm)	0.0026	3.33	941.3723
	R2408146-077 5X	Mo (202.032 nm)	0.1156	1.34	1241.0666
	R2408146-077 5X	Na (588.995 nm)	1011.9809 o	3.35	16720406.5842
	R2408146-077 5X	Ni (230.299 nm)	0.0602	1.88	773.8077
	R2408146-077 5X	Pb (220.353 nm)	0.0182	4.96	93.7185
	R2408146-077 5X	Sb (217.582 nm)	0.0077	27.12	17.7621
	R2408146-077 5X	Se (196.026 nm)	0.0023	29.51	6.0249
	R2408146-077 5X	Si (252.851 nm)	1.1378	2.04	7700.6386
	R2408146-077 5X	Sn (189.925 nm)	-0.0010 u	81.17	4.6780
	R2408146-077 5X	Sr (216.596 nm)	0.1435	1.95	2797.6070
	R2408146-077 5X	Ti (336.122 nm)	0.0014	8.14	317.6706
	R2408146-077 5X	Tl (190.794 nm)	0.0022	34.60	-0.7804
	R2408146-077 5X	V (292.401 nm)	0.0086	3.45	339.9222
	R2408146-077 5X	Y (360.074 nm)	0.82	0.73	517217.34
	R2408146-077 5X	Y_R (360.074 nm)	0.82	0.73	519693.47
	R2408146-077 5X	Zn (213.857 nm)	0.0082	1.10	519.4545
9/4/2024 17:04:48	R2408346-001 5X	Ag (328.068 nm)	0.0002	63.84	22.4031
	R2408346-001 5X	Al (237.312 nm)	0.0354	7.43	82.5539
	R2408346-001 5X	As (188.980 nm)	0.0215	14.55	35.3692
	R2408346-001 5X	B (249.772 nm)	0.8630	5.05	37658.3775
	R2408346-001 5X	Ba (230.424 nm)	0.0540	4.85	3301.7470
	R2408346-001 5X	Be (313.107 nm)	0.0000 u	> 100.00	-8.1300
	R2408346-001 5X	Ca (317.933 nm)	41.0180	4.70	1593495.1885
	R2408346-001 5X	Cd (214.439 nm)	0.0000 u	> 100.00	11.7293
	R2408346-001 5X	Co (230.786 nm)	0.0019	7.17	43.4846
	R2408346-001 5X	Cr (267.716 nm)	0.0105	4.76	637.3124
	R2408346-001 5X	Cu (327.395 nm)	0.0084	7.63	407.2490
	R2408346-001 5X	Fe (234.350 nm)	1.4535	4.43	33467.6237
	R2408346-001 5X	K (766.491 nm)	34.6906	5.70	46430.2605
	R2408346-001 5X	Mg (279.078 nm)	10.5877	4.73	45051.4427
	R2408346-001 5X	Mn (257.610 nm)	0.6135	4.74	218117.1505
	R2408346-001 5X	Mo (202.032 nm)	0.0019	27.08	28.2878
	R2408346-001 5X	Na (588.995 nm)	91.8194 o	5.03	1504101.9343
	R2408346-001 5X	Ni (230.299 nm)	0.0191	2.35	247.0490
	R2408346-001 5X	Pb (220.353 nm)	0.0014	25.61	10.1914

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408346-001 5X	Sb (217.582 nm)	0.0024	38.48	4.9556
	R2408346-001 5X	Se (196.026 nm)	-0.0039 u	71.18	2.0476
	R2408346-001 5X	Si (252.851 nm)	1.3822	4.86	9326.9452
	R2408346-001 5X	Sn (189.925 nm)	0.0004 u	> 100.00	8.3655
	R2408346-001 5X	Sr (216.596 nm)	0.2680	4.73	5221.1902
	R2408346-001 5X	Ti (336.122 nm)	0.0019	4.15	387.2286
	R2408346-001 5X	Tl (190.794 nm)	0.0026	83.21	-0.4800
	R2408346-001 5X	V (292.401 nm)	0.0021	8.62	90.5368
	R2408346-001 5X	Y (360.074 nm)	0.94	2.39	597122.73
	R2408346-001 5X	Y_R (360.074 nm)	0.94	2.39	600212.41
	R2408346-001 5X	Zn (213.857 nm)	0.0181	5.25	1116.5047
9/4/2024 17:08:03	R2408346-003 5X	Ag (328.068 nm)	0.0000 u	> 100.00	11.9211
	R2408346-003 5X	Al (237.312 nm)	0.2852	2.49	749.4106
	R2408346-003 5X	As (188.980 nm)	0.0182	11.35	29.5266
	R2408346-003 5X	B (249.772 nm)	0.6509	2.72	28429.7896
	R2408346-003 5X	Ba (230.424 nm)	0.0892	2.37	5443.5201
	R2408346-003 5X	Be (313.107 nm)	0.0000 u	> 100.00	-11.5141
	R2408346-003 5X	Ca (317.933 nm)	25.5638	2.36	994347.0860
	R2408346-003 5X	Cd (214.439 nm)	0.0002	33.35	23.0329
	R2408346-003 5X	Co (230.786 nm)	0.0014	0.40	33.1000
	R2408346-003 5X	Cr (267.716 nm)	0.0151	2.29	914.4140
	R2408346-003 5X	Cu (327.395 nm)	0.0193	2.24	934.3629
	R2408346-003 5X	Fe (234.350 nm)	9.6572	2.24	220662.1548
	R2408346-003 5X	K (766.491 nm)	32.8778	3.44	44041.8839
	R2408346-003 5X	Mg (279.078 nm)	8.6681	2.39	36884.3777
	R2408346-003 5X	Mn (257.610 nm)	0.7783	2.40	276694.1477
	R2408346-003 5X	Mo (202.032 nm)	0.0002 u	> 100.00	10.0201
	R2408346-003 5X	Na (588.995 nm)	86.0624 o	3.13	1408901.8586
	R2408346-003 5X	Ni (230.299 nm)	0.0162	2.71	209.5297
	R2408346-003 5X	Pb (220.353 nm)	0.0040	15.54	22.9830
	R2408346-003 5X	Sb (217.582 nm)	0.0013	59.36	2.4856
	R2408346-003 5X	Se (196.026 nm)	-0.0066 u	86.09	0.3104
	R2408346-003 5X	Si (252.851 nm)	1.5060	2.62	10150.9123
	R2408346-003 5X	Sn (189.925 nm)	0.0026	20.08	14.2348
	R2408346-003 5X	Sr (216.596 nm)	0.1147	1.97	2238.8732
	R2408346-003 5X	Ti (336.122 nm)	0.0071	1.61	1222.9879
	R2408346-003 5X	Tl (190.794 nm)	0.0008	21.41	-2.0879
	R2408346-003 5X	V (292.401 nm)	0.0051	7.00	207.7124
	R2408346-003 5X	Y (360.074 nm)	0.96	0.61	607296.52
	R2408346-003 5X	Y_R (360.074 nm)	0.96	0.61	610502.74
	R2408346-003 5X	Zn (213.857 nm)	0.0263	2.14	1613.8918
9/4/2024 17:11:17	Continuing Calibration Verification	Ag (328.068 nm)	0.5090	0.21	31978.0116
	Continuing Calibration Verification	Al (237.312 nm)	9.9694	0.12	26604.3749
	Continuing Calibration Verification	As (188.980 nm)	0.9863	0.25	1737.6528
	Continuing Calibration Verification	B (249.772 nm)	2.3106	0.18	100641.2662
	Continuing Calibration Verification	Ba (230.424 nm)	9.9593	0.49	606741.6111
	Continuing Calibration Verification	Be (313.107 nm)	0.2485	0.22	305593.0192
	Continuing Calibration Verification	Ca (317.933 nm)	25.6313	0.36	996963.4231
	Continuing Calibration Verification	Cd (214.439 nm)	0.5008	0.37	31618.2990
	Continuing Calibration Verification	Co (230.786 nm)	2.5077	0.13	53022.6687
	Continuing Calibration Verification	Cr (267.716 nm)	0.5146	0.24	31005.0066
	Continuing Calibration Verification	Cu (327.395 nm)	1.2303	0.24	59581.6921
	Continuing Calibration Verification	Fe (234.350 nm)	5.0385	0.28	115270.4745
	Continuing Calibration Verification	K (766.491 nm)	25.0869	0.31	33777.4544
	Continuing Calibration Verification	Mg (279.078 nm)	25.4812	0.33	108419.5735
	Continuing Calibration Verification	Mn (257.610 nm)	0.7449	0.21	264805.6738
	Continuing Calibration Verification	Mo (202.032 nm)	2.5809	0.45	27536.4577

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	Na (588.995 nm)	25.1320	0.37	401322.2439
	Continuing Calibration Verification	Ni (230.299 nm)	2.0307	0.26	26082.2026
	Continuing Calibration Verification	Pb (220.353 nm)	0.5098	0.25	2542.5535
	Continuing Calibration Verification	Sb (217.582 nm)	4.9418	0.27	11790.1481
	Continuing Calibration Verification	Se (196.026 nm)	0.4838	0.92	315.2390
	Continuing Calibration Verification	Si (252.851 nm)	9.9739 Q	1.58	66501.3102 Q
	Continuing Calibration Verification	Sn (189.925 nm)	5.0868	0.23	13609.4486
	Continuing Calibration Verification	Sr (216.596 nm)	2.5141	0.24	48922.5046
	Continuing Calibration Verification	Ti (336.122 nm)	2.6034	0.13	412959.3102
	Continuing Calibration Verification	Tl (190.794 nm)	0.9961	0.53	922.0678
	Continuing Calibration Verification	V (292.401 nm)	2.5493	0.21	97988.6192
	Continuing Calibration Verification	Y (360.074 nm)	0.96	0.63	607377.07
	Continuing Calibration Verification	Y_R (360.074 nm)	0.96	0.63	610650.18
	Continuing Calibration Verification	Zn (213.857 nm)	0.9987	0.02	60544.1282
9/4/2024 17:14:31	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u	> 100.00	10.8228
	Continuing Calibration Blank	Al (237.312 nm)	0.0012	67.54	-8.7543
	Continuing Calibration Blank	As (188.980 nm)	0.0017	53.58	0.2996
	Continuing Calibration Blank	B (249.772 nm)	0.0010	30.43	157.8028
	Continuing Calibration Blank	Ba (230.424 nm)	0.0003	17.50	31.0148
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	87.41	-5.7129
	Continuing Calibration Blank	Ca (317.933 nm)	0.0025	6.22	3355.7546
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	53.92	8.3765
	Continuing Calibration Blank	Co (230.786 nm)	0.0002 u	> 100.00	6.9538
	Continuing Calibration Blank	Cr (267.716 nm)	0.0001	83.83	7.8858
	Continuing Calibration Blank	Cu (327.395 nm)	0.0000 u	26.98	-0.3029
	Continuing Calibration Blank	Fe (234.350 nm)	-0.0051 u	22.62	184.3355
	Continuing Calibration Blank	K (766.491 nm)	0.1733	17.44	954.1271
	Continuing Calibration Blank	Mg (279.078 nm)	-0.0011 u	58.97	-1.0157
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000 u	> 100.00	27.2988
	Continuing Calibration Blank	Mo (202.032 nm)	0.0055	16.56	67.5710
	Continuing Calibration Blank	Na (588.995 nm)	0.2640	5.21	-9908.1949
	Continuing Calibration Blank	Ni (230.299 nm)	0.0005	91.04	8.2054
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0004 u	> 100.00	1.2575
	Continuing Calibration Blank	Sb (217.582 nm)	0.0131	6.30	30.5407
	Continuing Calibration Blank	Se (196.026 nm)	-0.0041 u	50.00	1.8911
	Continuing Calibration Blank	Si (252.851 nm)	0.0057	81.04	166.9195
	Continuing Calibration Blank	Sn (189.925 nm)	0.0004 u	> 100.00	8.5923
	Continuing Calibration Blank	Sr (216.596 nm)	-0.0001 u	52.65	4.4227
	Continuing Calibration Blank	Ti (336.122 nm)	0.0067	28.00	1160.0349
	Continuing Calibration Blank	Tl (190.794 nm)	0.0019	50.93	-1.1403
	Continuing Calibration Blank	V (292.401 nm)	0.0001 u	> 100.00	13.3397
	Continuing Calibration Blank	Y (360.074 nm)	1.01	0.51	640428.16
	Continuing Calibration Blank	Y_R (360.074 nm)	1.01	0.51	643952.18
	Continuing Calibration Blank	Zn (213.857 nm)	-0.0001 u	53.17	14.0018
9/4/2024 17:17:45	PBW-444181	Ag (328.068 nm)	0.0000 u	> 100.00	13.5907
	PBW-444181	Al (237.312 nm)	0.0015 u	> 100.00	-8.0839
	PBW-444181	As (188.980 nm)	0.0012 u	> 100.00	-0.5766
	PBW-444181	B (249.772 nm)	0.0012	17.42	165.9783
	PBW-444181	Ba (230.424 nm)	0.0000 u	> 100.00	12.3413
	PBW-444181	Be (313.107 nm)	0.0000	67.43	-5.0453
	PBW-444181	Ca (317.933 nm)	0.0072	3.73	3540.3280
	PBW-444181	Cd (214.439 nm)	0.0000 u	77.29	8.5081
	PBW-444181	Co (230.786 nm)	0.0000 u	> 100.00	3.8066
	PBW-444181	Cr (267.716 nm)	0.0001	80.21	9.3017
	PBW-444181	Cu (327.395 nm)	0.0001 u	89.04	4.4419
	PBW-444181	Fe (234.350 nm)	-0.0058 u	18.21	168.4170
	PBW-444181	K (766.491 nm)	0.0908	27.63	845.4846

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	PBW-444181	Mg (279.078 nm)	-0.0004 u	43.89	1.9261
	PBW-444181	Mn (257.610 nm)	0.0000	52.24	37.0754
	PBW-444181	Mo (202.032 nm)	0.0012	37.76	21.2758
	PBW-444181	Na (588.995 nm)	0.2212	6.73	-10615.6001
	PBW-444181	Ni (230.299 nm)	-0.0002 u	6.59	-1.5345
	PBW-444181	Pb (220.353 nm)	-0.0010 u	45.19	-1.8894
	PBW-444181	Sb (217.582 nm)	0.0149	8.20	34.8568
	PBW-444181	Se (196.026 nm)	-0.0012 u	> 100.00	3.7521
	PBW-444181	Si (252.851 nm)	0.0112	40.43	203.6978
	PBW-444181	Sn (189.925 nm)	-0.0001 u	> 100.00	7.0347
	PBW-444181	Sr (216.596 nm)	-0.0001 u	> 100.00	3.9014
	PBW-444181	Ti (336.122 nm)	0.0027	39.67	517.2319
	PBW-444181	Tl (190.794 nm)	0.0006 u	98.42	-2.2834
	PBW-444181	V (292.401 nm)	-0.0002 u	74.77	4.0050
	PBW-444181	Y (360.074 nm)	1.00	1.83	633992.30
	PBW-444181	Y_R (360.074 nm)	1.00	1.83	637525.19
	PBW-444181	Zn (213.857 nm)	0.0001	20.53	26.7449
9/4/2024 17:20:59	LCSW-444181	Ag (328.068 nm)	0.0495	0.38	3123.0545
	LCSW-444181	Al (237.312 nm)	1.9921	0.06	5306.5197
	LCSW-444181	As (188.980 nm)	0.0393	4.31	66.7075
	LCSW-444181	B (249.772 nm)	0.9299	0.17	40568.0285
	LCSW-444181	Ba (230.424 nm)	1.9849	0.10	120933.4279
	LCSW-444181	Be (313.107 nm)	0.0494	0.20	60693.9820
	LCSW-444181	Ca (317.933 nm)	2.0075	0.31	81090.9297
	LCSW-444181	Cd (214.439 nm)	0.0507	0.37	3208.7080
	LCSW-444181	Co (230.786 nm)	0.5016	0.08	10607.9378
	LCSW-444181	Cr (267.716 nm)	0.2001	0.22	12056.0623
	LCSW-444181	Cu (327.395 nm)	0.2498	0.22	12099.8948
	LCSW-444181	Fe (234.350 nm)	1.0043	0.30	23217.6436
	LCSW-444181	K (766.491 nm)	19.2586	0.32	26098.8599
	LCSW-444181	Mg (279.078 nm)	1.9486	0.28	8294.5201
	LCSW-444181	Mn (257.610 nm)	0.4848	0.22	172342.9720
	LCSW-444181	Mo (202.032 nm)	0.4978	0.90	5317.6827
	LCSW-444181	Na (588.995 nm)	19.7763	0.46	312758.4340
	LCSW-444181	Ni (230.299 nm)	0.4953	0.28	6362.4079
	LCSW-444181	Pb (220.353 nm)	0.5204	0.14	2595.3578
	LCSW-444181	Sb (217.582 nm)	0.4938	1.19	1177.4601
	LCSW-444181	Se (196.026 nm)	0.9898	0.96	640.2225
	LCSW-444181	Si (252.851 nm)	0.3144	1.26	2221.7020
	LCSW-444181	Sn (189.925 nm)	4.9780	0.28	13318.5629
	LCSW-444181	Sr (216.596 nm)	1.9969	0.33	38859.9150
	LCSW-444181	Ti (336.122 nm)	0.5048	0.21	80149.2873
	LCSW-444181	Tl (190.794 nm)	1.9824	0.36	1837.9485
	LCSW-444181	V (292.401 nm)	0.4939	0.21	18994.7494
	LCSW-444181	Y (360.074 nm)	0.99	0.42	624182.19
	LCSW-444181	Y_R (360.074 nm)	0.98	0.42	627481.94
	LCSW-444181	Zn (213.857 nm)	0.5037	0.19	30542.3881
9/4/2024 17:24:13	DLCSW-444181	Ag (328.068 nm)	0.0495	0.50	3121.4674
	DLCSW-444181	Al (237.312 nm)	1.9970	0.47	5319.6077
	DLCSW-444181	As (188.980 nm)	0.0379	1.07	64.1604
	DLCSW-444181	B (249.772 nm)	0.9310	0.08	40617.7565
	DLCSW-444181	Ba (230.424 nm)	1.9884	0.21	121148.0282
	DLCSW-444181	Be (313.107 nm)	0.0494	0.06	60735.8101
	DLCSW-444181	Ca (317.933 nm)	2.0101	0.20	81190.1603
	DLCSW-444181	Cd (214.439 nm)	0.0507	0.30	3214.2206
	DLCSW-444181	Co (230.786 nm)	0.5020	0.21	10616.8949
	DLCSW-444181	Cr (267.716 nm)	0.2004	0.08	12072.7168

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	DLCSW-444181	Cu (327.395 nm)	0.2503	0.20	12123.3415
	DLCSW-444181	Fe (234.350 nm)	1.0072	0.14	23283.8846
	DLCSW-444181	K (766.491 nm)	19.2810	0.44	26128.2462
	DLCSW-444181	Mg (279.078 nm)	1.9491	0.10	8296.4334
	DLCSW-444181	Mn (257.610 nm)	0.4853	0.08	172538.1889
	DLCSW-444181	Mo (202.032 nm)	0.4983	0.91	5323.2504
	DLCSW-444181	Na (588.995 nm)	19.7634	0.53	312544.6261
	DLCSW-444181	Ni (230.299 nm)	0.4958	0.15	6369.4590
	DLCSW-444181	Pb (220.353 nm)	0.5231	0.29	2609.1480
	DLCSW-444181	Sb (217.582 nm)	0.4920	1.27	1173.1138
	DLCSW-444181	Se (196.026 nm)	0.9877	0.66	638.8348
	DLCSW-444181	Si (252.851 nm)	0.2937	1.25	2083.9221
	DLCSW-444181	Sn (189.925 nm)	4.9702	0.12	13297.5772
	DLCSW-444181	Sr (216.596 nm)	1.9898	0.16	38721.4890
	DLCSW-444181	Ti (336.122 nm)	0.5028	0.11	79828.0010
	DLCSW-444181	Tl (190.794 nm)	1.9859	0.13	1841.2034
	DLCSW-444181	V (292.401 nm)	0.4945	0.03	19017.0182
	DLCSW-444181	Y (360.074 nm)	0.99	0.53	624333.40
	DLCSW-444181	Y_R (360.074 nm)	0.98	0.54	627712.79
	DLCSW-444181	Zn (213.857 nm)	0.5046	0.09	30600.8194
9/4/2024 17:27:26	R2408332-001	Ag (328.068 nm)	0.0001 u	> 100.00	16.9081
	R2408332-001	Al (237.312 nm)	0.0016	27.38	-7.6237
	R2408332-001	As (188.980 nm)	0.0015	57.37	0.0340
	R2408332-001	B (249.772 nm)	0.0574	0.50	2607.9958
	R2408332-001	Ba (230.424 nm)	0.0244	0.28	1495.0845
	R2408332-001	Be (313.107 nm)	0.0000 u	> 100.00	-12.0183
	R2408332-001	Ca (317.933 nm)	136.7319 o	0.15	5304242.0339
	R2408332-001	Cd (214.439 nm)	0.0001 u	89.56	15.3007
	R2408332-001	Co (230.786 nm)	0.0000 u	> 100.00	2.5390
	R2408332-001	Cr (267.716 nm)	0.0007	8.20	43.8468
	R2408332-001	Cu (327.395 nm)	0.0001	43.01	4.7135
	R2408332-001	Fe (234.350 nm)	-0.0014 u	57.53	267.8469
	R2408332-001	K (766.491 nm)	2.3401	0.14	3808.8924
	R2408332-001	Mg (279.078 nm)	68.7084 o	0.07	292339.8777
	R2408332-001	Mn (257.610 nm)	0.0079	0.13	2846.8078
	R2408332-001	Mo (202.032 nm)	0.0134	7.33	151.5222
	R2408332-001	Na (588.995 nm)	34.6139	0.38	558120.6515
	R2408332-001	Ni (230.299 nm)	0.0291	1.50	374.7050
	R2408332-001	Pb (220.353 nm)	-0.0012 u	51.89	-2.8208
	R2408332-001	Sb (217.582 nm)	0.0123	15.90	28.6278
	R2408332-001	Se (196.026 nm)	-0.0010 u	> 100.00	3.8701
	R2408332-001	Si (252.851 nm)	7.8991	0.19	52694.3076
	R2408332-001	Sn (189.925 nm)	0.0030	51.15	15.3446
	R2408332-001	Sr (216.596 nm)	2.0760	0.17	40398.5702
	R2408332-001	Ti (336.122 nm)	0.0026	33.24	496.9975
	R2408332-001	Tl (190.794 nm)	0.0032 u	> 100.00	0.0817
	R2408332-001	V (292.401 nm)	0.0009	20.32	44.2067
	R2408332-001	Y (360.074 nm)	0.94	0.66	597868.68
	R2408332-001	Y_R (360.074 nm)	0.94	0.66	601005.65
	R2408332-001	Zn (213.857 nm)	0.0400	0.19	2444.9438
9/4/2024 17:30:40	R2408332-004	Ag (328.068 nm)	0.0001	> 100.00	17.0991
	R2408332-004	Al (237.312 nm)	0.0023	17.45	-5.7056
	R2408332-004	As (188.980 nm)	0.0017 u	> 100.00	0.4331
	R2408332-004	B (249.772 nm)	0.3291	3.29	14430.7467
	R2408332-004	Ba (230.424 nm)	0.0187	3.37	1149.2474
	R2408332-004	Be (313.107 nm)	0.0000 u	77.75	-16.1456
	R2408332-004	Ca (317.933 nm)	34.0752	3.18	1324328.0093

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408332-004	Cd (214.439 nm)	0.0000	96.42	13.2793
	R2408332-004	Co (230.786 nm)	-0.0001 u	28.55	0.3582
	R2408332-004	Cr (267.716 nm)	0.0005	6.42	36.4540
	R2408332-004	Cu (327.395 nm)	0.0000 u	> 100.00	2.6844
	R2408332-004	Fe (234.350 nm)	0.0066	4.64	452.5950
	R2408332-004	K (766.491 nm)	1.9579	6.66	3305.4033
	R2408332-004	Mg (279.078 nm)	21.0442	3.20	89541.2902
	R2408332-004	Mn (257.610 nm)	0.0196	3.28	6995.4543
	R2408332-004	Mo (202.032 nm)	0.0147	2.31	165.2646
	R2408332-004	Na (588.995 nm)	87.2891 o	3.76	1429187.0199
	R2408332-004	Ni (230.299 nm)	0.0146	1.95	188.1158
	R2408332-004	Pb (220.353 nm)	-0.0006 u	51.45	0.0966
	R2408332-004	Sb (217.582 nm)	0.0085	35.82	19.5448
	R2408332-004	Se (196.026 nm)	-0.0027 u	> 100.00	2.7743
	R2408332-004	Si (252.851 nm)	4.1903	3.27	28013.8383
	R2408332-004	Sn (189.925 nm)	0.0008	65.79	9.4852
	R2408332-004	Sr (216.596 nm)	2.1070	3.32	41001.9718
	R2408332-004	Ti (336.122 nm)	0.0014	32.81	317.0530
	R2408332-004	Tl (190.794 nm)	0.0023	45.40	-0.7124
	R2408332-004	V (292.401 nm)	0.0006	29.22	32.8822
	R2408332-004	Y (360.074 nm)	0.94	3.58	595033.12
	R2408332-004	Y_R (360.074 nm)	0.94	3.58	598186.44
	R2408332-004	Zn (213.857 nm)	0.0040	5.74	263.4881
9/4/2024 17:33:54	R2408332-005	Ag (328.068 nm)	0.0000 u	> 100.00	13.6364
	R2408332-005	Al (237.312 nm)	0.0012 u	> 100.00	-8.8061
	R2408332-005	As (188.980 nm)	0.0001 u	> 100.00	-2.5517
	R2408332-005	B (249.772 nm)	0.3204	0.09	14053.3977
	R2408332-005	Ba (230.424 nm)	0.0182	0.76	1121.0853
	R2408332-005	Be (313.107 nm)	0.0000 u	87.62	-15.6963
	R2408332-005	Ca (317.933 nm)	33.1959	0.06	1290236.4829
	R2408332-005	Cd (214.439 nm)	0.0000 u	> 100.00	13.2987
	R2408332-005	Co (230.786 nm)	-0.0001 u	> 100.00	1.7604
	R2408332-005	Cr (267.716 nm)	0.0007	6.24	43.7188
	R2408332-005	Cu (327.395 nm)	0.0000 u	> 100.00	2.0673
	R2408332-005	Fe (234.350 nm)	0.0078	4.24	478.9242
	R2408332-005	K (766.491 nm)	1.8826	1.48	3206.1726
	R2408332-005	Mg (279.078 nm)	20.4746	0.10	87117.5558
	R2408332-005	Mn (257.610 nm)	0.0191	0.19	6825.3140
	R2408332-005	Mo (202.032 nm)	0.0139	0.37	156.8921
	R2408332-005	Na (588.995 nm)	85.0655 o	0.59	1392415.8362
	R2408332-005	Ni (230.299 nm)	0.0139	3.35	180.0249
	R2408332-005	Pb (220.353 nm)	-0.0006 u	> 100.00	0.1545
	R2408332-005	Sb (217.582 nm)	0.0057	31.81	13.0312
	R2408332-005	Se (196.026 nm)	-0.0022 u	> 100.00	3.1141
	R2408332-005	Si (252.851 nm)	4.0782	0.13	27268.1463
	R2408332-005	Sn (189.925 nm)	-0.0001 u	> 100.00	7.0039
	R2408332-005	Sr (216.596 nm)	2.0564	0.17	40017.0773
	R2408332-005	Ti (336.122 nm)	0.0006	42.26	188.2013
	R2408332-005	Tl (190.794 nm)	0.0018	28.36	-1.2023
	R2408332-005	V (292.401 nm)	0.0006	9.97	32.4738
	R2408332-005	Y (360.074 nm)	0.96	0.67	605986.41
	R2408332-005	Y_R (360.074 nm)	0.96	0.67	609198.86
	R2408332-005	Zn (213.857 nm)	0.0026	2.62	180.0102
9/4/2024 17:37:08	R2408332-010	Ag (328.068 nm)	0.0001	82.43	19.0071
	R2408332-010	Al (237.312 nm)	0.6166	0.65	1634.2812
	R2408332-010	As (188.980 nm)	0.0023	41.05	1.4461
	R2408332-010	B (249.772 nm)	0.2403	0.02	10567.9583

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408332-010	Ba (230.424 nm)	0.0413	0.28	2523.6029
	R2408332-010	Be (313.107 nm)	0.0000	29.78	6.3573
	R2408332-010	Ca (317.933 nm)	112.3996 o	0.16	4360901.3649
	R2408332-010	Cd (214.439 nm)	0.0001	62.07	14.8740
	R2408332-010	Co (230.786 nm)	0.0012	5.03	27.9040
	R2408332-010	Cr (267.716 nm)	0.0108	1.70	655.4043
	R2408332-010	Cu (327.395 nm)	0.0021	5.96	103.5419
	R2408332-010	Fe (234.350 nm)	0.5345	0.11	12496.6500
	R2408332-010	K (766.491 nm)	3.2795	0.47	5046.6109
	R2408332-010	Mg (279.078 nm)	80.1935 o	0.13	341205.8930
	R2408332-010	Mn (257.610 nm)	0.0736	0.07	26185.1789
	R2408332-010	Mo (202.032 nm)	0.0085	1.61	98.8510
	R2408332-010	Na (588.995 nm)	97.5714 o	0.58	1599220.7168
	R2408332-010	Ni (230.299 nm)	0.0401	1.14	516.2996
	R2408332-010	Pb (220.353 nm)	0.0004	69.83	4.9857
	R2408332-010	Sb (217.582 nm)	0.0047	41.86	10.5439
	R2408332-010	Se (196.026 nm)	0.0016	96.36	5.5679
	R2408332-010	Si (252.851 nm)	10.4026	0.14	69354.2373
	R2408332-010	Sn (189.925 nm)	0.0011	41.61	10.3277
	R2408332-010	Sr (216.596 nm)	2.6824	0.28	52197.1743
	R2408332-010	Ti (336.122 nm)	0.0087	6.15	1467.9257
	R2408332-010	Tl (190.794 nm)	0.0020	33.80	-0.9667
	R2408332-010	V (292.401 nm)	0.0021	3.16	90.9385
	R2408332-010	Y (360.074 nm)	0.93	0.65	590570.71
	R2408332-010	Y_R (360.074 nm)	0.93	0.65	593609.90
	R2408332-010	Zn (213.857 nm)	0.0076	1.00	481.6722
9/4/2024 17:40:22	R2408332-015	Ag (328.068 nm)	0.0002	81.26	23.0486
	R2408332-015	Al (237.312 nm)	0.0148	8.51	27.5985
	R2408332-015	As (188.980 nm)	0.0013	> 100.00	-0.4266
	R2408332-015	B (249.772 nm)	1.1206	0.03	48868.9387
	R2408332-015	Ba (230.424 nm)	0.0393	0.14	2405.2941
	R2408332-015	Be (313.107 nm)	0.0000 u	> 100.00	-8.9810
	R2408332-015	Ca (317.933 nm)	153.3860 o	0.22	5949906.7800
	R2408332-015	Cd (214.439 nm)	0.0000 u	> 100.00	11.4613
	R2408332-015	Co (230.786 nm)	-0.0001 u	> 100.00	2.2516
	R2408332-015	Cr (267.716 nm)	0.0026	5.70	162.9465
	R2408332-015	Cu (327.395 nm)	0.0002	78.71	12.5037
	R2408332-015	Fe (234.350 nm)	0.1216	0.47	3074.8640
	R2408332-015	K (766.491 nm)	5.4293	0.51	7878.8310
	R2408332-015	Mg (279.078 nm)	117.4981 o	0.22	499927.0142
	R2408332-015	Mn (257.610 nm)	0.0095	0.39	3411.3932
	R2408332-015	Mo (202.032 nm)	0.0065	8.01	77.7023
	R2408332-015	Na (588.995 nm)	215.1304 o	0.74	3543242.2364
	R2408332-015	Ni (230.299 nm)	0.0347	1.60	446.7069
	R2408332-015	Pb (220.353 nm)	-0.0006 u	10.34	0.1360
	R2408332-015	Sb (217.582 nm)	0.0045	7.81	10.1713
	R2408332-015	Se (196.026 nm)	0.0049	79.83	7.6958
	R2408332-015	Si (252.851 nm)	9.3701	0.12	62483.3808
	R2408332-015	Sn (189.925 nm)	0.0001 u	> 100.00	7.6246
	R2408332-015	Sr (216.596 nm)	4.5301	0.06	88147.3529
	R2408332-015	Ti (336.122 nm)	0.0005	48.81	169.7439
	R2408332-015	Tl (190.794 nm)	0.0040	42.30	0.8318
	R2408332-015	V (292.401 nm)	0.0010	26.63	47.6299
	R2408332-015	Y (360.074 nm)	0.91	0.56	573852.66
	R2408332-015	Y_R (360.074 nm)	0.90	0.56	576808.34
	R2408332-015	Zn (213.857 nm)	0.0053	2.06	341.6916
9/4/2024 17:43:36	Continuing Calibration Verification	Ag (328.068 nm)	0.5095	0.44	32004.0857

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	Al (237.312 nm)	9.9813	0.50	26636.0112
	Continuing Calibration Verification	As (188.980 nm)	0.9850	0.37	1735.3008
	Continuing Calibration Verification	B (249.772 nm)	2.3142	0.32	100798.0450
	Continuing Calibration Verification	Ba (230.424 nm)	9.9570	0.38	606597.8800
	Continuing Calibration Verification	Be (313.107 nm)	0.2487	0.19	305878.1379
	Continuing Calibration Verification	Ca (317.933 nm)	25.7224	0.20	1000495.7704
	Continuing Calibration Verification	Cd (214.439 nm)	0.5028	0.14	31740.4597
	Continuing Calibration Verification	Co (230.786 nm)	2.5140	0.18	53156.0989
	Continuing Calibration Verification	Cr (267.716 nm)	0.5160	0.18	31083.6738
	Continuing Calibration Verification	Cu (327.395 nm)	1.2301	0.30	59569.9863
	Continuing Calibration Verification	Fe (234.350 nm)	5.0260	0.26	114985.5786
	Continuing Calibration Verification	K (766.491 nm)	24.9358	0.63	33578.4372
	Continuing Calibration Verification	Mg (279.078 nm)	25.5642	0.25	108772.7815
	Continuing Calibration Verification	Mn (257.610 nm)	0.7460	0.24	265222.2326
	Continuing Calibration Verification	Mo (202.032 nm)	2.5861	0.16	27592.0908
	Continuing Calibration Verification	Na (588.995 nm)	25.0854	0.75	400552.0121
	Continuing Calibration Verification	Ni (230.299 nm)	2.0328	0.18	26109.4739
	Continuing Calibration Verification	Pb (220.353 nm)	0.5095	0.47	2541.1854
	Continuing Calibration Verification	Sb (217.582 nm)	4.9584	0.29	11829.7382
	Continuing Calibration Verification	Se (196.026 nm)	0.4853	2.10	316.1869
	Continuing Calibration Verification	Si (252.851 nm)	10.0001 Q	1.20	66675.9070 Q
	Continuing Calibration Verification	Sn (189.925 nm)	5.1029	0.31	13652.5815
	Continuing Calibration Verification	Sr (216.596 nm)	2.5171	0.24	48981.4546
	Continuing Calibration Verification	Ti (336.122 nm)	2.6075	0.37	413613.1356
	Continuing Calibration Verification	Tl (190.794 nm)	1.0073	0.29	932.4712
	Continuing Calibration Verification	V (292.401 nm)	2.5532	0.21	98138.5509
	Continuing Calibration Verification	Y (360.074 nm)	0.96	0.93	605630.99
	Continuing Calibration Verification	Y_R (360.074 nm)	0.96	0.93	608823.22
	Continuing Calibration Verification	Zn (213.857 nm)	1.0017	0.37	60726.6783
9/4/2024 17:46:50	Continuing Calibration Blank	Ag (328.068 nm)	-0.0001 u	15.87	8.2128
	Continuing Calibration Blank	Al (237.312 nm)	0.0015	> 100.00	-8.0561
	Continuing Calibration Blank	As (188.980 nm)	0.0005 u	> 100.00	-1.7592
	Continuing Calibration Blank	B (249.772 nm)	0.0012	16.38	163.9685
	Continuing Calibration Blank	Ba (230.424 nm)	0.0004	15.45	35.0459
	Continuing Calibration Blank	Be (313.107 nm)	0.0000 u	> 100.00	-9.6731
	Continuing Calibration Blank	Ca (317.933 nm)	0.0029	8.43	3372.2831
	Continuing Calibration Blank	Cd (214.439 nm)	-0.0001 u	40.37	5.6361
	Continuing Calibration Blank	Co (230.786 nm)	0.0001 u	> 100.00	5.1494
	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u	> 100.00	5.2751
	Continuing Calibration Blank	Cu (327.395 nm)	0.0000 u	> 100.00	0.6399
	Continuing Calibration Blank	Fe (234.350 nm)	-0.0059 u	19.11	166.9721
	Continuing Calibration Blank	K (766.491 nm)	0.0936	30.91	849.1384
	Continuing Calibration Blank	Mg (279.078 nm)	-0.0007 u	53.49	0.9075
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000 u	72.66	25.2891
	Continuing Calibration Blank	Mo (202.032 nm)	0.0061	10.42	73.5078
	Continuing Calibration Blank	Na (588.995 nm)	0.1591	4.20	-11642.8420
	Continuing Calibration Blank	Ni (230.299 nm)	0.0002	> 100.00	4.2766
	Continuing Calibration Blank	Pb (220.353 nm)	0.0003 u	> 100.00	4.5410
	Continuing Calibration Blank	Sb (217.582 nm)	0.0134	18.96	31.3469
	Continuing Calibration Blank	Se (196.026 nm)	-0.0031 u	> 100.00	2.5368
	Continuing Calibration Blank	Si (252.851 nm)	0.0033 u	> 100.00	151.0976
	Continuing Calibration Blank	Sn (189.925 nm)	0.0001 u	> 100.00	7.7673
	Continuing Calibration Blank	Sr (216.596 nm)	0.0001	51.15	8.0490
	Continuing Calibration Blank	Ti (336.122 nm)	0.0067	27.84	1149.3046
	Continuing Calibration Blank	Tl (190.794 nm)	0.0016	44.24	-1.3891
	Continuing Calibration Blank	V (292.401 nm)	0.0001 u	> 100.00	15.3918
	Continuing Calibration Blank	Y (360.074 nm)	1.01	0.39	636989.79

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Y_R (360.074 nm)	1.00	0.39	640435.31
	Continuing Calibration Blank	Zn (213.857 nm)	-0.0001 u	75.93	16.1106
9/4/2024 17:50:04	R2408332-020	Ag (328.068 nm)	0.0001 u	> 100.00	20.5376
	R2408332-020	Al (237.312 nm)	0.0062	16.36	4.6069
	R2408332-020	As (188.980 nm)	0.0016	50.86	0.1648
	R2408332-020	B (249.772 nm)	0.2167	0.08	9538.8474
	R2408332-020	Ba (230.424 nm)	0.0300	0.45	1836.4276
	R2408332-020	Be (313.107 nm)	0.0000 u	81.84	-15.7925
	R2408332-020	Ca (317.933 nm)	108.5025 o	0.19	4209811.8571
	R2408332-020	Cd (214.439 nm)	0.0000	> 100.00	13.6295
	R2408332-020	Co (230.786 nm)	0.0011	18.42	27.0366
	R2408332-020	Cr (267.716 nm)	0.0023	5.62	144.5852
	R2408332-020	Cu (327.395 nm)	0.0000 u	> 100.00	3.3773
	R2408332-020	Fe (234.350 nm)	0.0087	9.06	500.3862
	R2408332-020	K (766.491 nm)	4.2810	0.47	6366.0461
	R2408332-020	Mg (279.078 nm)	81.8102 o	0.18	348084.5890
	R2408332-020	Mn (257.610 nm)	0.0072	0.06	2580.9047
	R2408332-020	Mo (202.032 nm)	0.0084	5.44	97.9081
	R2408332-020	Na (588.995 nm)	91.6368 o	0.43	1501082.8731
	R2408332-020	Ni (230.299 nm)	0.2321	0.07	2982.0216
	R2408332-020	Pb (220.353 nm)	-0.0008 u	93.99	-0.5865
	R2408332-020	Sb (217.582 nm)	0.0094	17.87	21.6935
	R2408332-020	Se (196.026 nm)	-0.0022 u	> 100.00	3.0998
	R2408332-020	Si (252.851 nm)	8.1600	0.11	54430.5300
	R2408332-020	Sn (189.925 nm)	0.0008 u	> 100.00	9.6488
	R2408332-020	Sr (216.596 nm)	4.2403	0.24	82508.8818
	R2408332-020	Ti (336.122 nm)	0.0022	40.11	433.6705
	R2408332-020	Tl (190.794 nm)	0.0012	82.47	-1.7863
	R2408332-020	V (292.401 nm)	0.0013	17.66	60.6851
	R2408332-020	Y (360.074 nm)	0.93	0.69	588655.28
	R2408332-020	Y_R (360.074 nm)	0.93	0.69	591684.40
	R2408332-020	Zn (213.857 nm)	0.0028	0.86	190.1724
9/4/2024 17:53:18	R2408332-025	Ag (328.068 nm)	0.0002	80.11	23.5762
	R2408332-025	Al (237.312 nm)	0.0067	26.31	5.8698
	R2408332-025	As (188.980 nm)	0.0011	> 100.00	-0.6730
	R2408332-025	B (249.772 nm)	0.8815	0.12	38463.3145
	R2408332-025	Ba (230.424 nm)	0.0790	0.08	4821.5616
	R2408332-025	Be (313.107 nm)	0.0000	40.73	-3.1725
	R2408332-025	Ca (317.933 nm)	158.0384 o	0.29	6130278.9617
	R2408332-025	Cd (214.439 nm)	0.0000 u	> 100.00	14.5059
	R2408332-025	Co (230.786 nm)	0.0022	13.13	49.3807
	R2408332-025	Cr (267.716 nm)	0.0051	1.24	308.0710
	R2408332-025	Cu (327.395 nm)	0.0017	13.31	85.5193
	R2408332-025	Fe (234.350 nm)	-0.0015 u	24.82	267.7944
	R2408332-025	K (766.491 nm)	4.8870	0.43	7164.4156
	R2408332-025	Mg (279.078 nm)	123.4096 o	0.24	525078.7082
	R2408332-025	Mn (257.610 nm)	0.0002	5.70	99.3410
	R2408332-025	Mo (202.032 nm)	0.0063	5.00	75.4783
	R2408332-025	Na (588.995 nm)	154.4172 o	0.45	2539254.8520
	R2408332-025	Ni (230.299 nm)	0.0458	0.57	589.4291
	R2408332-025	Pb (220.353 nm)	-0.0014 u	14.14	-3.7904
	R2408332-025	Sb (217.582 nm)	0.0082	16.33	18.9958
	R2408332-025	Se (196.026 nm)	-0.0026 u	> 100.00	2.8724
	R2408332-025	Si (252.851 nm)	12.2112	0.03	81390.0001
	R2408332-025	Sn (189.925 nm)	0.0004	51.32	8.3968
	R2408332-025	Sr (216.596 nm)	6.3022 o	0.38	122627.2601
	R2408332-025	Ti (336.122 nm)	0.0009	61.82	233.2380

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408332-025	Tl (190.794 nm)	0.0024	42.42	-0.6636
	R2408332-025	V (292.401 nm)	0.0038	1.19	156.8681
	R2408332-025	Y (360.074 nm)	0.91	0.50	574408.19
	R2408332-025	Y_R (360.074 nm)	0.91	0.50	577314.39
	R2408332-025	Zn (213.857 nm)	0.0074	0.20	471.5058
9/4/2024 17:56:32	R2408332-026	Ag (328.068 nm)	0.0000 u	> 100.00	13.6291
	R2408332-026	Al (237.312 nm)	0.0140	13.47	25.4352
	R2408332-026	As (188.980 nm)	0.0063	12.14	8.4431
	R2408332-026	B (249.772 nm)	0.1368	1.62	6065.1039
	R2408332-026	Ba (230.424 nm)	0.0268	1.74	1643.6392
	R2408332-026	Be (313.107 nm)	0.0000 u	> 100.00	-8.6090
	R2408332-026	Ca (317.933 nm)	15.1448	1.46	590410.8417
	R2408332-026	Cd (214.439 nm)	0.0000	64.07	13.5940
	R2408332-026	Co (230.786 nm)	0.0000 u	> 100.00	3.5288
	R2408332-026	Cr (267.716 nm)	0.0090	2.03	545.3189
	R2408332-026	Cu (327.395 nm)	0.0003	74.18	14.7939
	R2408332-026	Fe (234.350 nm)	0.0049	1.31	412.7486
	R2408332-026	K (766.491 nm)	2.6703	2.48	4243.9245
	R2408332-026	Mg (279.078 nm)	28.1900	1.47	119944.5165
	R2408332-026	Mn (257.610 nm)	0.0004	1.82	169.0018
	R2408332-026	Mo (202.032 nm)	0.0106	0.81	121.6880
	R2408332-026	Na (588.995 nm)	32.1091	1.87	516700.2689
	R2408332-026	Ni (230.299 nm)	0.0224	2.74	288.3184
	R2408332-026	Pb (220.353 nm)	-0.0002 u	> 100.00	2.0111
	R2408332-026	Sb (217.582 nm)	0.0062	11.33	14.2058
	R2408332-026	Se (196.026 nm)	-0.0007 u	69.87	4.0481
	R2408332-026	Si (252.851 nm)	6.8690	1.55	45839.7323
	R2408332-026	Sn (189.925 nm)	0.0002 u	> 100.00	7.8889
	R2408332-026	Sr (216.596 nm)	0.8861	1.40	17246.8450
	R2408332-026	Ti (336.122 nm)	0.0008	41.85	219.6977
	R2408332-026	Tl (190.794 nm)	0.0003 u	> 100.00	-2.5986
	R2408332-026	V (292.401 nm)	0.0080	3.28	319.6518
	R2408332-026	Y (360.074 nm)	0.97	2.00	616332.87
	R2408332-026	Y_R (360.074 nm)	0.97	2.00	619654.83
	R2408332-026	Zn (213.857 nm)	0.0010	4.71	81.7811
9/4/2024 17:59:46	R2408332-027	Ag (328.068 nm)	0.0001 u	> 100.00	16.1966
	R2408332-027	Al (237.312 nm)	0.0116	7.38	19.0404
	R2408332-027	As (188.980 nm)	0.0005	87.77	-1.7853
	R2408332-027	B (249.772 nm)	0.0022	3.72	207.5015
	R2408332-027	Ba (230.424 nm)	0.0002	7.70	21.8765
	R2408332-027	Be (313.107 nm)	0.0000 u	> 100.00	-11.7930
	R2408332-027	Ca (317.933 nm)	0.0344	0.19	4594.6316
	R2408332-027	Cd (214.439 nm)	0.0000 u	> 100.00	12.4561
	R2408332-027	Co (230.786 nm)	-0.0001 u	> 100.00	1.9991
	R2408332-027	Cr (267.716 nm)	0.0006	17.83	41.8471
	R2408332-027	Cu (327.395 nm)	0.0000 u	> 100.00	3.5868
	R2408332-027	Fe (234.350 nm)	-0.0009 u	30.84	281.4752
	R2408332-027	K (766.491 nm)	0.0346	45.11	771.4227
	R2408332-027	Mg (279.078 nm)	0.0018	24.82	11.5697
	R2408332-027	Mn (257.610 nm)	0.0001	9.39	72.4834
	R2408332-027	Mo (202.032 nm)	0.0005	81.82	13.8500
	R2408332-027	Na (588.995 nm)	0.1620	2.47	-11596.1281
	R2408332-027	Ni (230.299 nm)	0.0000 u	> 100.00	1.4577
	R2408332-027	Pb (220.353 nm)	-0.0006 u	> 100.00	0.3041
	R2408332-027	Sb (217.582 nm)	0.0045	9.20	10.0350
	R2408332-027	Se (196.026 nm)	-0.0010 u	> 100.00	3.8753
	R2408332-027	Si (252.851 nm)	0.0427	19.14	413.4919

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408332-027	Sn (189.925 nm)	-0.0007 u	16.79	5.5594
	R2408332-027	Sr (216.596 nm)	0.0000 u	> 100.00	5.8308
	R2408332-027	Ti (336.122 nm)	0.0009	33.78	232.5360
	R2408332-027	Tl (190.794 nm)	0.0015	75.63	-1.4923
	R2408332-027	V (292.401 nm)	-0.0001 u	> 100.00	7.7409
	R2408332-027	Y (360.074 nm)	1.01	0.48	639895.85
	R2408332-027	Y_R (360.074 nm)	1.01	0.47	643428.55
	R2408332-027	Zn (213.857 nm)	0.0012	2.58	95.5927
9/4/2024 18:03:01	R2408332-028	Ag (328.068 nm)	0.0002 u	> 100.00	22.8135
	R2408332-028	Al (237.312 nm)	0.0068	6.72	6.2571
	R2408332-028	As (188.980 nm)	0.0025	63.49	1.7928
	R2408332-028	B (249.772 nm)	0.2272	0.19	9997.8130
	R2408332-028	Ba (230.424 nm)	0.0405	0.34	2479.3075
	R2408332-028	Be (313.107 nm)	0.0000	> 100.00	-10.2984
	R2408332-028	Ca (317.933 nm)	101.9253 o	0.12	3954821.3613
	R2408332-028	Cd (214.439 nm)	0.0000 u	> 100.00	12.5141
	R2408332-028	Co (230.786 nm)	0.0000 u	> 100.00	3.4445
	R2408332-028	Cr (267.716 nm)	0.0019	2.66	120.1124
	R2408332-028	Cu (327.395 nm)	0.0001	60.59	6.5413
	R2408332-028	Fe (234.350 nm)	0.0162	2.66	671.2169
	R2408332-028	K (766.491 nm)	2.7767	1.26	4384.0689
	R2408332-028	Mg (279.078 nm)	86.3196 o	0.15	367270.8637
	R2408332-028	Mn (257.610 nm)	0.0312	0.02	11115.3081
	R2408332-028	Mo (202.032 nm)	0.0070	0.80	83.5816
	R2408332-028	Na (588.995 nm)	107.0706 o	0.54	1756305.0848
	R2408332-028	Ni (230.299 nm)	0.0335	1.37	430.8743
	R2408332-028	Pb (220.353 nm)	-0.0007 u	> 100.00	-0.2765
	R2408332-028	Sb (217.582 nm)	0.0024	80.32	4.9688
	R2408332-028	Se (196.026 nm)	0.0025	56.61	6.1428
	R2408332-028	Si (252.851 nm)	8.9436	0.04	59645.1176
	R2408332-028	Sn (189.925 nm)	-0.0006 u	50.63	5.7570
	R2408332-028	Sr (216.596 nm)	2.2775	0.34	44319.1548
	R2408332-028	Ti (336.122 nm)	0.0004	44.56	160.0476
	R2408332-028	Tl (190.794 nm)	0.0035	49.41	0.3998
	R2408332-028	V (292.401 nm)	0.0007	12.19	39.6571
	R2408332-028	Y (360.074 nm)	0.93	0.57	586914.95
	R2408332-028	Y_R (360.074 nm)	0.93	0.57	589933.71
	R2408332-028	Zn (213.857 nm)	0.0033	2.54	220.9854
9/4/2024 18:06:14	R2408332-029	Ag (328.068 nm)	0.0002	63.22	25.1182
	R2408332-029	Al (237.312 nm)	0.0065	5.73	5.4211
	R2408332-029	As (188.980 nm)	0.0010	63.77	-0.8241
	R2408332-029	B (249.772 nm)	0.2293	0.17	10087.6161
	R2408332-029	Ba (230.424 nm)	0.0406	0.27	2483.9083
	R2408332-029	Be (313.107 nm)	0.0000 u	42.44	-14.7343
	R2408332-029	Ca (317.933 nm)	102.2248 o	0.27	3966432.2658
	R2408332-029	Cd (214.439 nm)	0.0000 u	> 100.00	11.9117
	R2408332-029	Co (230.786 nm)	-0.0001 u	54.42	0.6017
	R2408332-029	Cr (267.716 nm)	0.0018	9.87	111.3270
	R2408332-029	Cu (327.395 nm)	0.0013	4.19	64.3424
	R2408332-029	Fe (234.350 nm)	0.0135	1.25	608.5343
	R2408332-029	K (766.491 nm)	2.8018	1.37	4417.2184
	R2408332-029	Mg (279.078 nm)	86.4333 o	0.24	367754.3160
	R2408332-029	Mn (257.610 nm)	0.0289	0.05	10301.0913
	R2408332-029	Mo (202.032 nm)	0.0075	2.30	88.2558
	R2408332-029	Na (588.995 nm)	107.2391 o	0.55	1759091.3069
	R2408332-029	Ni (230.299 nm)	0.0337	0.89	433.7704
	R2408332-029	Pb (220.353 nm)	-0.0005 u	> 100.00	0.8467

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408332-029	Sb (217.582 nm)	0.0031	27.99	6.7468
	R2408332-029	Se (196.026 nm)	0.0029	35.65	6.3975
	R2408332-029	Si (252.851 nm)	8.9824	0.03	59903.2029
	R2408332-029	Sn (189.925 nm)	-0.0008 u	24.92	5.2736
	R2408332-029	Sr (216.596 nm)	2.2830	0.26	44426.5703
	R2408332-029	Ti (336.122 nm)	0.0004	38.82	147.4930
	R2408332-029	Tl (190.794 nm)	0.0018 u	> 100.00	-1.1628
	R2408332-029	V (292.401 nm)	0.0006	8.35	34.8446
	R2408332-029	Y (360.074 nm)	0.93	0.57	587598.57
	R2408332-029	Y_R (360.074 nm)	0.93	0.57	590624.67
	R2408332-029	Zn (213.857 nm)	0.0033	0.90	220.3874
9/4/2024 18:09:28	R2408332-030	Ag (328.068 nm)	0.0001	53.46	21.7923
	R2408332-030	Al (237.312 nm)	0.0038	49.58	-1.8767
	R2408332-030	As (188.980 nm)	0.0001 u	> 100.00	-2.4228
	R2408332-030	B (249.772 nm)	0.0895	0.12	4005.7222
	R2408332-030	Ba (230.424 nm)	0.0125	0.14	772.7483
	R2408332-030	Be (313.107 nm)	0.0000 u	36.48	-16.7376
	R2408332-030	Ca (317.933 nm)	19.2175	0.08	748305.5618
	R2408332-030	Cd (214.439 nm)	0.0000 u	> 100.00	10.4207
	R2408332-030	Co (230.786 nm)	0.0001 u	> 100.00	5.5720
	R2408332-030	Cr (267.716 nm)	0.0007	16.71	43.6897
	R2408332-030	Cu (327.395 nm)	0.0001 u	94.35	6.3762
	R2408332-030	Fe (234.350 nm)	0.0148	0.92	639.6596
	R2408332-030	K (766.491 nm)	1.5259	0.90	2736.1598
	R2408332-030	Mg (279.078 nm)	13.6733	0.11	58179.8533
	R2408332-030	Mn (257.610 nm)	0.0083	0.14	2970.3475
	R2408332-030	Mo (202.032 nm)	0.0039	9.88	50.2388
	R2408332-030	Na (588.995 nm)	52.5202	0.60	854228.2959
	R2408332-030	Ni (230.299 nm)	0.0112	2.90	144.4973
	R2408332-030	Pb (220.353 nm)	-0.0010 u	43.17	-1.8833
	R2408332-030	Sb (217.582 nm)	0.0045	59.32	10.1666
	R2408332-030	Se (196.026 nm)	-0.0017 u	> 100.00	3.4172
	R2408332-030	Si (252.851 nm)	3.2419	0.03	21702.6634
	R2408332-030	Sn (189.925 nm)	-0.0005 u	> 100.00	6.0422
	R2408332-030	Sr (216.596 nm)	0.9850	0.16	19171.5337
	R2408332-030	Ti (336.122 nm)	0.0002	93.02	122.9903
	R2408332-030	Tl (190.794 nm)	0.0012	86.75	-1.7311
	R2408332-030	V (292.401 nm)	0.0007	12.94	38.4698
	R2408332-030	Y (360.074 nm)	0.97	0.67	614653.91
	R2408332-030	Y_R (360.074 nm)	0.97	0.67	617928.24
	R2408332-030	Zn (213.857 nm)	0.0038	1.12	249.9363
9/4/2024 18:12:42	R2408332-030L 5X	Ag (328.068 nm)	0.0000 u	> 100.00	12.6932
	R2408332-030L 5X	Al (237.312 nm)	0.0013	> 100.00	-8.5754
	R2408332-030L 5X	As (188.980 nm)	-0.0003 u	> 100.00	-3.1060
	R2408332-030L 5X	B (249.772 nm)	0.0167	2.51	840.0389
	R2408332-030L 5X	Ba (230.424 nm)	0.0024	2.65	158.5287
	R2408332-030L 5X	Be (313.107 nm)	0.0000	67.10	-6.0882
	R2408332-030L 5X	Ca (317.933 nm)	3.7408	2.15	148288.4822
	R2408332-030L 5X	Cd (214.439 nm)	0.0000 u	77.91	9.3484
	R2408332-030L 5X	Co (230.786 nm)	0.0001 u	> 100.00	5.1763
	R2408332-030L 5X	Cr (267.716 nm)	0.0002	22.29	15.1377
	R2408332-030L 5X	Cu (327.395 nm)	0.0000 u	> 100.00	0.8036
	R2408332-030L 5X	Fe (234.350 nm)	-0.0056 u	1.01	172.4385
	R2408332-030L 5X	K (766.491 nm)	0.3114	11.68	1136.0698
	R2408332-030L 5X	Mg (279.078 nm)	2.6731	2.18	11376.9219
	R2408332-030L 5X	Mn (257.610 nm)	0.0016	3.04	597.4967
	R2408332-030L 5X	Mo (202.032 nm)	0.0007	45.30	16.3402

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408332-030L 5X	Na (588.995 nm)	10.4382	2.76	158337.9039
	R2408332-030L 5X	Ni (230.299 nm)	0.0020	15.10	27.4554
	R2408332-030L 5X	Pb (220.353 nm)	-0.0010 u	56.85	-1.7111
	R2408332-030L 5X	Sb (217.582 nm)	0.0038	21.85	8.4906
	R2408332-030L 5X	Se (196.026 nm)	-0.0013 u	> 100.00	3.6809
	R2408332-030L 5X	Si (252.851 nm)	0.6207	1.64	4259.4936
	R2408332-030L 5X	Sn (189.925 nm)	-0.0011 u	16.49	4.5661
	R2408332-030L 5X	Sr (216.596 nm)	0.1914	2.19	3731.2707
	R2408332-030L 5X	Ti (336.122 nm)	0.0001	74.53	99.6175
	R2408332-030L 5X	Tl (190.794 nm)	0.0019	51.19	-1.0566
	R2408332-030L 5X	V (292.401 nm)	0.0002	76.17	17.5994
	R2408332-030L 5X	Y (360.074 nm)	1.00	0.83	630603.62
	R2408332-030L 5X	Y_R (360.074 nm)	0.99	0.83	634004.92
	R2408332-030L 5X	Zn (213.857 nm)	0.0006	10.34	59.1035
9/4/2024 18:15:56	Continuing Calibration Verification	Ag (328.068 nm)	0.5094	0.22	32000.4853
	Continuing Calibration Verification	Al (237.312 nm)	9.9774	0.25	26625.5956
	Continuing Calibration Verification	As (188.980 nm)	0.9859	0.14	1736.9462
	Continuing Calibration Verification	B (249.772 nm)	2.3123	0.12	100714.6191
	Continuing Calibration Verification	Ba (230.424 nm)	9.9614	0.47	606866.0376
	Continuing Calibration Verification	Be (313.107 nm)	0.2487	0.16	305823.3737
	Continuing Calibration Verification	Ca (317.933 nm)	25.6786	0.21	998799.3365
	Continuing Calibration Verification	Cd (214.439 nm)	0.5030	0.18	31757.8156
	Continuing Calibration Verification	Co (230.786 nm)	2.5041	0.48	52947.7045
	Continuing Calibration Verification	Cr (267.716 nm)	0.5158	0.13	31073.2574
	Continuing Calibration Verification	Cu (327.395 nm)	1.2309	0.50	59610.9572
	Continuing Calibration Verification	Fe (234.350 nm)	5.0223	0.16	114901.0672
	Continuing Calibration Verification	K (766.491 nm)	24.8353	0.41	33446.0778
	Continuing Calibration Verification	Mg (279.078 nm)	25.5351	0.15	108648.7975
	Continuing Calibration Verification	Mn (257.610 nm)	0.7450	0.17	264845.9266
	Continuing Calibration Verification	Mo (202.032 nm)	2.5868	0.30	27599.7670
	Continuing Calibration Verification	Na (588.995 nm)	25.0082	0.56	399274.8503
	Continuing Calibration Verification	Ni (230.299 nm)	2.0370	0.06	26163.1140
	Continuing Calibration Verification	Pb (220.353 nm)	0.5121	0.40	2554.1680
	Continuing Calibration Verification	Sb (217.582 nm)	4.9530	0.25	11817.0255
	Continuing Calibration Verification	Se (196.026 nm)	0.4906	0.74	319.5817
	Continuing Calibration Verification	Si (252.851 nm)	9.9790 Q	1.45	66535.6837 Q
	Continuing Calibration Verification	Sn (189.925 nm)	5.1077	0.01	13665.2955
	Continuing Calibration Verification	Sr (216.596 nm)	2.5179	0.15	48995.7537
	Continuing Calibration Verification	Ti (336.122 nm)	2.6049	0.19	413210.7542
	Continuing Calibration Verification	Tl (190.794 nm)	1.0074	0.55	932.6034
	Continuing Calibration Verification	V (292.401 nm)	2.5504	0.15	98031.0937
	Continuing Calibration Verification	Y (360.074 nm)	0.95	0.77	603458.82
	Continuing Calibration Verification	Y_R (360.074 nm)	0.95	0.77	606744.75
	Continuing Calibration Verification	Zn (213.857 nm)	1.0008	0.22	60668.3405
9/4/2024 18:19:10	Continuing Calibration Blank	Ag (328.068 nm)	0.0001	47.99	16.6404
	Continuing Calibration Blank	Al (237.312 nm)	0.0008	> 100.00	-9.7402
	Continuing Calibration Blank	As (188.980 nm)	0.0004 u	> 100.00	-1.9085
	Continuing Calibration Blank	B (249.772 nm)	0.0007	32.68	144.1438
	Continuing Calibration Blank	Ba (230.424 nm)	0.0005	0.81	38.7642
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	> 100.00	-7.9181
	Continuing Calibration Blank	Ca (317.933 nm)	0.0029	6.24	3372.9897
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	64.85	9.7825
	Continuing Calibration Blank	Co (230.786 nm)	0.0000 u	> 100.00	2.6844
	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u	> 100.00	5.7760
	Continuing Calibration Blank	Cu (327.395 nm)	0.0000 u	> 100.00	1.5047
	Continuing Calibration Blank	Fe (234.350 nm)	-0.0057 u	13.07	171.3525
	Continuing Calibration Blank	K (766.491 nm)	0.0709	22.92	819.2517

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Mg (279.078 nm)	-0.0020 u	37.06	-4.6548
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000 u	> 100.00	28.7183
	Continuing Calibration Blank	Mo (202.032 nm)	0.0059	17.61	71.6738
	Continuing Calibration Blank	Na (588.995 nm)	0.1115	6.10	-12429.7107
	Continuing Calibration Blank	Ni (230.299 nm)	-0.0002 u	98.23	-1.7052
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0002 u	> 100.00	2.4542
	Continuing Calibration Blank	Sb (217.582 nm)	0.0122	11.06	28.3551
	Continuing Calibration Blank	Se (196.026 nm)	-0.0023 u	52.51	3.0561
	Continuing Calibration Blank	Si (252.851 nm)	0.0031 u	> 100.00	150.0794
	Continuing Calibration Blank	Sn (189.925 nm)	-0.0003 u	> 100.00	6.5477
	Continuing Calibration Blank	Sr (216.596 nm)	0.0000 u	> 100.00	7.0168
	Continuing Calibration Blank	Ti (336.122 nm)	0.0068	28.05	1174.5495
	Continuing Calibration Blank	Tl (190.794 nm)	0.0011 u	> 100.00	-1.8311
	Continuing Calibration Blank	V (292.401 nm)	0.0000 u	> 100.00	9.8272
	Continuing Calibration Blank	Y (360.074 nm)	1.00	0.51	635162.51
	Continuing Calibration Blank	Y_R (360.074 nm)	1.00	0.50	638705.10
	Continuing Calibration Blank	Zn (213.857 nm)	-0.0001 u	72.18	14.4472
9/4/2024 18:22:24	PBW-444154	Ag (328.068 nm)	0.0001 u	> 100.00	16.0794
	PBW-444154	Al (237.312 nm)	0.0068	21.09	6.2693
	PBW-444154	As (188.980 nm)	0.0014 u	> 100.00	-0.2131
	PBW-444154	B (249.772 nm)	0.0009	4.33	153.7099
	PBW-444154	Ba (230.424 nm)	0.0000 u	> 100.00	9.1531
	PBW-444154	Be (313.107 nm)	0.0000 u	> 100.00	-14.6836
	PBW-444154	Ca (317.933 nm)	0.0075	5.14	3550.8601
	PBW-444154	Cd (214.439 nm)	0.0000 u	> 100.00	11.7332
	PBW-444154	Co (230.786 nm)	0.0002	31.66	7.8150
	PBW-444154	Cr (267.716 nm)	0.0001	92.17	6.4424
	PBW-444154	Cu (327.395 nm)	0.0000 u	83.91	0.2656
	PBW-444154	Fe (234.350 nm)	-0.0070 u	9.79	142.0676
	PBW-444154	K (766.491 nm)	0.0419	66.18	781.1196
	PBW-444154	Mg (279.078 nm)	-0.0004 u	17.03	2.2368
	PBW-444154	Mn (257.610 nm)	0.0000 u	> 100.00	28.7805
	PBW-444154	Mo (202.032 nm)	0.0013	36.69	21.8195
	PBW-444154	Na (588.995 nm)	0.1130	3.82	-12406.2015
	PBW-444154	Ni (230.299 nm)	0.0002 u	> 100.00	3.3844
	PBW-444154	Pb (220.353 nm)	-0.0006 u	> 100.00	0.0035
	PBW-444154	Sb (217.582 nm)	0.0128	10.80	29.9820
	PBW-444154	Se (196.026 nm)	-0.0043 u	71.08	1.7690
	PBW-444154	Si (252.851 nm)	0.0119	41.67	208.4791
	PBW-444154	Sn (189.925 nm)	0.0000 u	> 100.00	7.3906
	PBW-444154	Sr (216.596 nm)	-0.0001 u	32.89	4.9362
	PBW-444154	Ti (336.122 nm)	0.0025	39.98	482.8822
	PBW-444154	Tl (190.794 nm)	0.0009 u	> 100.00	-2.0681
	PBW-444154	V (292.401 nm)	0.0001 u	> 100.00	13.1555
	PBW-444154	Y (360.074 nm)	1.01	0.51	639067.64
	PBW-444154	Y_R (360.074 nm)	1.01	0.51	642615.28
	PBW-444154	Zn (213.857 nm)	0.0001 u	> 100.00	23.4913
9/4/2024 18:25:38	LCSW-444154	Ag (328.068 nm)	0.0504	2.27	3177.7428
	LCSW-444154	Al (237.312 nm)	2.0304	2.55	5408.8842
	LCSW-444154	As (188.980 nm)	0.0375	8.19	63.4812
	LCSW-444154	B (249.772 nm)	0.9431	2.74	41143.7351
	LCSW-444154	Ba (230.424 nm)	2.0150	2.75	122768.2603
	LCSW-444154	Be (313.107 nm)	0.0502	2.74	61691.3397
	LCSW-444154	Ca (317.933 nm)	2.0408	2.94	82380.0462
	LCSW-444154	Cd (214.439 nm)	0.0513	3.01	3251.7527
	LCSW-444154	Co (230.786 nm)	0.5089	2.81	10762.6292
	LCSW-444154	Cr (267.716 nm)	0.2038	2.87	12278.3605

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	LCSW-444154	Cu (327.395 nm)	0.2551	2.66	12353.5790
	LCSW-444154	Fe (234.350 nm)	1.0208	2.88	23593.5076
	LCSW-444154	K (766.491 nm)	19.4826	2.33	26393.9796
	LCSW-444154	Mg (279.078 nm)	1.9805	2.86	8430.3677
	LCSW-444154	Mn (257.610 nm)	0.4918	2.76	174858.2135
	LCSW-444154	Mo (202.032 nm)	0.5028	3.49	5370.9694
	LCSW-444154	Na (588.995 nm)	20.0092	2.03	316609.3072
	LCSW-444154	Ni (230.299 nm)	0.5032	2.83	6463.3241
	LCSW-444154	Pb (220.353 nm)	0.5306	2.93	2646.1939
	LCSW-444154	Sb (217.582 nm)	0.4974	1.83	1186.0422
	LCSW-444154	Se (196.026 nm)	1.0030	1.92	648.6657
	LCSW-444154	Si (252.851 nm)	0.3189	4.37	2251.6099
	LCSW-444154	Sn (189.925 nm)	5.0568	2.77	13529.2662
	LCSW-444154	Sr (216.596 nm)	2.0284	2.76	39472.6912
	LCSW-444154	Ti (336.122 nm)	0.5101	2.63	80980.0157
	LCSW-444154	Tl (190.794 nm)	2.0206	2.80	1873.4530
	LCSW-444154	V (292.401 nm)	0.5015	2.69	19283.3127
	LCSW-444154	Y (360.074 nm)	0.97	1.96	615479.09
	LCSW-444154	Y_R (360.074 nm)	0.97	1.96	618908.32
	LCSW-444154	Zn (213.857 nm)	0.5136	2.75	31143.4969
9/4/2024 18:28:52	R2408350-001	Ag (328.068 nm)	0.0002	39.36	23.9042
	R2408350-001	Al (237.312 nm)	0.0865	0.46	218.9904
	R2408350-001	As (188.980 nm)	-0.0005 u	71.35	-3.5267
	R2408350-001	B (249.772 nm)	0.0120	0.33	635.3271
	R2408350-001	Ba (230.424 nm)	0.0727	0.15	4438.6623
	R2408350-001	Be (313.107 nm)	0.0000	79.07	-8.4524
	R2408350-001	Ca (317.933 nm)	21.4199	0.18	833691.4369
	R2408350-001	Cd (214.439 nm)	0.0000 u	> 100.00	11.0252
	R2408350-001	Co (230.786 nm)	-0.0001 u	65.71	1.0248
	R2408350-001	Cr (267.716 nm)	0.0007	11.81	43.0343
	R2408350-001	Cu (327.395 nm)	0.0002	> 100.00	11.2347
	R2408350-001	Fe (234.350 nm)	0.1036	0.62	2664.2131
	R2408350-001	K (766.491 nm)	3.0540	0.82	4749.4207
	R2408350-001	Mg (279.078 nm)	6.1694	0.10	26252.7667
	R2408350-001	Mn (257.610 nm)	0.0059	0.77	2124.8671
	R2408350-001	Mo (202.032 nm)	0.0042	15.49	52.7018
	R2408350-001	Na (588.995 nm)	86.6616 o	0.42	1418809.7649
	R2408350-001	Ni (230.299 nm)	0.0086	4.15	112.1907
	R2408350-001	Pb (220.353 nm)	-0.0003 u	> 100.00	1.6188
	R2408350-001	Sb (217.582 nm)	0.0109	11.87	25.2500
	R2408350-001	Se (196.026 nm)	0.0009 u	> 100.00	5.0932
	R2408350-001	Si (252.851 nm)	2.5632	0.03	17186.5869
	R2408350-001	Sn (189.925 nm)	0.0021	74.81	12.9492
	R2408350-001	Sr (216.596 nm)	0.0512	0.62	1002.1301
	R2408350-001	Ti (336.122 nm)	0.0040	21.09	723.8310
	R2408350-001	Tl (190.794 nm)	0.0018 u	> 100.00	-1.1469
	R2408350-001	V (292.401 nm)	0.0001 u	> 100.00	13.0430
	R2408350-001	Y (360.074 nm)	0.96	0.72	606642.72
	R2408350-001	Y_R (360.074 nm)	0.96	0.72	609896.87
	R2408350-001	Zn (213.857 nm)	0.0031	3.03	207.7367
9/4/2024 18:32:06	R2408350-002	Ag (328.068 nm)	-0.0001 u	22.43	9.1104
	R2408350-002	Al (237.312 nm)	6.3941	0.27	17059.0241
	R2408350-002	As (188.980 nm)	0.0032 u	98.85	2.9508
	R2408350-002	B (249.772 nm)	0.0153	0.65	777.6732
	R2408350-002	Ba (230.424 nm)	0.0694	0.23	4238.3810
	R2408350-002	Be (313.107 nm)	0.0001	0.66	149.0384
	R2408350-002	Ca (317.933 nm)	7.4710	0.17	292904.8163

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408350-002	Cd (214.439 nm)	0.0001	20.27	16.9247
	R2408350-002	Co (230.786 nm)	0.0020	9.52	45.4885
	R2408350-002	Cr (267.716 nm)	0.0084	0.89	507.6129
	R2408350-002	Cu (327.395 nm)	0.0049	4.20	236.8223
	R2408350-002	Fe (234.350 nm)	5.6911	0.19	130162.3558
	R2408350-002	K (766.491 nm)	2.6423	0.64	4207.0643
	R2408350-002	Mg (279.078 nm)	3.1385	0.09	13357.1222
	R2408350-002	Mn (257.610 nm)	0.1604	0.13	57040.7753
	R2408350-002	Mo (202.032 nm)	0.0010	64.08	19.5767
	R2408350-002	Na (588.995 nm)	5.0770	0.46	69681.8901
	R2408350-002	Ni (230.299 nm)	0.0354	1.05	455.7115
	R2408350-002	Pb (220.353 nm)	0.0022	16.15	14.4394
	R2408350-002	Sb (217.582 nm)	0.0046	40.75	10.2500
	R2408350-002	Se (196.026 nm)	-0.0043 u	32.86	1.7389
	R2408350-002	Si (252.851 nm)	9.1521	0.36	61032.6080
	R2408350-002	Sn (189.925 nm)	0.0007 u	> 100.00	9.2913
	R2408350-002	Sr (216.596 nm)	0.0232	1.03	457.0445
	R2408350-002	Ti (336.122 nm)	0.1898	1.27	30195.3449
	R2408350-002	Tl (190.794 nm)	0.0015 u	> 100.00	-1.4316
	R2408350-002	V (292.401 nm)	0.0101	1.03	398.8502
	R2408350-002	Y (360.074 nm)	1.00	0.63	634339.40
	R2408350-002	Y_R (360.074 nm)	1.00	0.63	637798.56
	R2408350-002	Zn (213.857 nm)	0.0160	0.47	989.7712
9/4/2024 18:35:20	R2408350-003	Ag (328.068 nm)	0.0001 u	> 100.00	15.8485
	R2408350-003	Al (237.312 nm)	0.0832	1.46	210.0889
	R2408350-003	As (188.980 nm)	0.0002 u	> 100.00	-2.3328
	R2408350-003	B (249.772 nm)	0.0054	0.78	347.7637
	R2408350-003	Ba (230.424 nm)	0.0186	0.20	1145.3295
	R2408350-003	Be (313.107 nm)	0.0000 u	57.55	-14.4751
	R2408350-003	Ca (317.933 nm)	7.2742	0.29	285273.5200
	R2408350-003	Cd (214.439 nm)	0.0000 u	93.41	13.1806
	R2408350-003	Co (230.786 nm)	0.0000 u	> 100.00	2.7766
	R2408350-003	Cr (267.716 nm)	0.0006	6.18	41.6562
	R2408350-003	Cu (327.395 nm)	0.0001	90.81	5.0635
	R2408350-003	Fe (234.350 nm)	0.0951	2.10	2471.2688
	R2408350-003	K (766.491 nm)	0.6650	1.99	1601.9266
	R2408350-003	Mg (279.078 nm)	2.2812	0.27	9709.6772
	R2408350-003	Mn (257.610 nm)	0.0057	0.63	2059.9041
	R2408350-003	Mo (202.032 nm)	0.0005	27.08	13.2986
	R2408350-003	Na (588.995 nm)	5.7373	0.52	80600.4091
	R2408350-003	Ni (230.299 nm)	0.0061	5.30	80.0263
	R2408350-003	Pb (220.353 nm)	-0.0005 u	> 100.00	0.8459
	R2408350-003	Sb (217.582 nm)	0.0056	54.43	12.6924
	R2408350-003	Se (196.026 nm)	0.0001 u	> 100.00	4.6214
	R2408350-003	Si (252.851 nm)	1.7033	0.32	11463.7960
	R2408350-003	Sn (189.925 nm)	0.0003 u	> 100.00	8.1448
	R2408350-003	Sr (216.596 nm)	0.0188	0.69	372.6226
	R2408350-003	Ti (336.122 nm)	0.0023	2.26	456.5276
	R2408350-003	Tl (190.794 nm)	0.0023	27.10	-0.7195
	R2408350-003	V (292.401 nm)	0.0000 u	> 100.00	10.7789
	R2408350-003	Y (360.074 nm)	1.00	0.38	633558.42
	R2408350-003	Y_R (360.074 nm)	1.00	0.39	637064.80
	R2408350-003	Zn (213.857 nm)	0.0059	1.05	375.5581
9/4/2024 18:38:34	R2408350-004	Ag (328.068 nm)	0.0002	17.58	25.8106
	R2408350-004	Al (237.312 nm)	0.0586	2.55	144.5426
	R2408350-004	As (188.980 nm)	0.0001 u	> 100.00	-2.3838
	R2408350-004	B (249.772 nm)	0.0571	1.33	2595.1179

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408350-004	Ba (230.424 nm)	0.0321	1.33	1967.3996
	R2408350-004	Be (313.107 nm)	0.0000 u	> 100.00	-12.0711
	R2408350-004	Ca (317.933 nm)	12.2187	0.98	476969.1590
	R2408350-004	Cd (214.439 nm)	0.0001	41.07	15.5613
	R2408350-004	Co (230.786 nm)	-0.0002 u	77.02	0.0985
	R2408350-004	Cr (267.716 nm)	0.0022	4.86	138.0742
	R2408350-004	Cu (327.395 nm)	0.0017	5.12	82.4350
	R2408350-004	Fe (234.350 nm)	0.2289	0.93	5523.1743
	R2408350-004	K (766.491 nm)	2.9790	1.76	4650.5924
	R2408350-004	Mg (279.078 nm)	3.4548	0.94	14703.0551
	R2408350-004	Mn (257.610 nm)	0.0112	0.96	4022.9843
	R2408350-004	Mo (202.032 nm)	0.0004	60.55	12.5868
	R2408350-004	Na (588.995 nm)	14.0928	1.53	218772.8485
	R2408350-004	Ni (230.299 nm)	0.0070	0.61	91.6231
	R2408350-004	Pb (220.353 nm)	-0.0001 u	> 100.00	2.7300
	R2408350-004	Sb (217.582 nm)	0.0056	6.22	12.6691
	R2408350-004	Se (196.026 nm)	-0.0042 u	54.96	1.8484
	R2408350-004	Si (252.851 nm)	1.7687	1.01	11898.9413
	R2408350-004	Sn (189.925 nm)	0.0003 u	> 100.00	8.1549
	R2408350-004	Sr (216.596 nm)	0.0359	1.47	704.9777
	R2408350-004	Ti (336.122 nm)	0.0016	25.23	347.8323
	R2408350-004	Tl (190.794 nm)	0.0016	84.26	-1.3675
	R2408350-004	V (292.401 nm)	0.0001	93.01	15.1725
	R2408350-004	Y (360.074 nm)	0.98	1.49	618720.23
	R2408350-004	Y_R (360.074 nm)	0.98	1.50	622187.45
	R2408350-004	Zn (213.857 nm)	0.0058	3.48	370.7475
9/4/2024 18:41:48	R2408350-005	Ag (328.068 nm)	0.0002	23.21	26.7753
	R2408350-005	Al (237.312 nm)	0.0508	0.22	123.7088
	R2408350-005	As (188.980 nm)	0.0001 u	> 100.00	-2.4420
	R2408350-005	B (249.772 nm)	0.0565	0.06	2569.3818
	R2408350-005	Ba (230.424 nm)	0.0319	0.23	1954.2712
	R2408350-005	Be (313.107 nm)	0.0000 u	> 100.00	-13.5130
	R2408350-005	Ca (317.933 nm)	12.1126	0.15	472856.3054
	R2408350-005	Cd (214.439 nm)	0.0000 u	> 100.00	13.5589
	R2408350-005	Co (230.786 nm)	0.0000 u	> 100.00	3.7333
	R2408350-005	Cr (267.716 nm)	0.0015	6.82	94.2324
	R2408350-005	Cu (327.395 nm)	0.0010	11.35	51.7824
	R2408350-005	Fe (234.350 nm)	0.1633	0.19	4027.6128
	R2408350-005	K (766.491 nm)	2.9208	1.48	4573.9412
	R2408350-005	Mg (279.078 nm)	3.4242	0.15	14572.8644
	R2408350-005	Mn (257.610 nm)	0.0109	0.21	3886.7119
	R2408350-005	Mo (202.032 nm)	0.0000 u	> 100.00	8.9169
	R2408350-005	Na (588.995 nm)	14.0068	0.45	217349.4161
	R2408350-005	Ni (230.299 nm)	0.0068	3.03	88.6327
	R2408350-005	Pb (220.353 nm)	-0.0003 u	> 100.00	1.5169
	R2408350-005	Sb (217.582 nm)	0.0061	27.19	13.9293
	R2408350-005	Se (196.026 nm)	-0.0043 u	> 100.00	1.7482
	R2408350-005	Si (252.851 nm)	1.7500	0.13	11774.5025
	R2408350-005	Sn (189.925 nm)	-0.0002 u	> 100.00	6.8966
	R2408350-005	Sr (216.596 nm)	0.0353	0.86	694.0922
	R2408350-005	Ti (336.122 nm)	0.0013	20.39	287.9530
	R2408350-005	Tl (190.794 nm)	0.0010	52.96	-1.9223
	R2408350-005	V (292.401 nm)	0.0000 u	> 100.00	11.2430
	R2408350-005	Y (360.074 nm)	0.99	0.69	625342.92
	R2408350-005	Y_R (360.074 nm)	0.99	0.69	628801.81
	R2408350-005	Zn (213.857 nm)	0.0045	1.14	291.8396
9/4/2024 18:45:02	R2408350-006	Ag (328.068 nm)	0.0001	> 100.00	18.3039

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408350-006	Al (237.312 nm)	5.5363	0.28	14768.7340
	R2408350-006	As (188.980 nm)	0.0040	49.54	4.3891
	R2408350-006	B (249.772 nm)	0.1059	0.10	4718.0421
	R2408350-006	Ba (230.424 nm)	0.0677	0.41	4134.0055
	R2408350-006	Be (313.107 nm)	0.0002	4.52	175.2121
	R2408350-006	Ca (317.933 nm)	25.9277	0.15	1008456.7826
	R2408350-006	Cd (214.439 nm)	0.0001	38.83	19.7759
	R2408350-006	Co (230.786 nm)	0.0014	14.38	33.0564
	R2408350-006	Cr (267.716 nm)	0.0030	0.81	181.3629
	R2408350-006	Cu (327.395 nm)	0.0039	3.54	192.3090
	R2408350-006	Fe (234.350 nm)	4.2250	0.08	96707.8561
	R2408350-006	K (766.491 nm)	4.1331	0.53	6171.1364
	R2408350-006	Mg (279.078 nm)	9.4894	0.16	40378.5326
	R2408350-006	Mn (257.610 nm)	0.1290	0.15	45897.7107
	R2408350-006	Mo (202.032 nm)	0.0002	> 100.00	10.6291
	R2408350-006	Na (588.995 nm)	21.0546	0.55	333896.2287
	R2408350-006	Ni (230.299 nm)	0.0400	1.07	514.9450
	R2408350-006	Pb (220.353 nm)	0.0062	16.41	34.1502
	R2408350-006	Sb (217.582 nm)	0.0025	57.05	5.1797
	R2408350-006	Se (196.026 nm)	-0.0053 u	89.87	1.1326
	R2408350-006	Si (252.851 nm)	10.5672	0.27	70449.7160
	R2408350-006	Sn (189.925 nm)	0.0005	60.01	8.7614
	R2408350-006	Sr (216.596 nm)	0.0595	0.36	1163.7345
	R2408350-006	Ti (336.122 nm)	0.0643	4.07	10287.2593
	R2408350-006	Tl (190.794 nm)	0.0028	15.70	-0.2594
	R2408350-006	V (292.401 nm)	0.0033	4.13	136.2435
	R2408350-006	Y (360.074 nm)	0.98	0.63	622342.30
	R2408350-006	Y_R (360.074 nm)	0.98	0.63	625774.08
	R2408350-006	Zn (213.857 nm)	0.0143	0.75	889.3560
9/4/2024 18:48:17	Continuing Calibration Verification	Ag (328.068 nm)	0.5089	0.18	31966.5947
	Continuing Calibration Verification	Al (237.312 nm)	9.9480	0.33	26547.1024
	Continuing Calibration Verification	As (188.980 nm)	0.9823	0.19	1730.4954
	Continuing Calibration Verification	B (249.772 nm)	2.3069	0.09	100481.5023
	Continuing Calibration Verification	Ba (230.424 nm)	9.9361	0.14	605327.1950
	Continuing Calibration Verification	Be (313.107 nm)	0.2485	0.10	305595.3030
	Continuing Calibration Verification	Ca (317.933 nm)	25.6652	0.06	998278.9811
	Continuing Calibration Verification	Cd (214.439 nm)	0.5023	0.07	31709.5258
	Continuing Calibration Verification	Co (230.786 nm)	2.5090	0.18	53050.0918
	Continuing Calibration Verification	Cr (267.716 nm)	0.5158	0.10	31075.3192
	Continuing Calibration Verification	Cu (327.395 nm)	1.2290	0.53	59516.4626
	Continuing Calibration Verification	Fe (234.350 nm)	5.0297	0.05	115070.9094
	Continuing Calibration Verification	K (766.491 nm)	24.7147	0.56	33287.1299
	Continuing Calibration Verification	Mg (279.078 nm)	25.5350	0.08	108648.4043
	Continuing Calibration Verification	Mn (257.610 nm)	0.7440	0.03	264488.6436
	Continuing Calibration Verification	Mo (202.032 nm)	2.5804	0.13	27531.2010
	Continuing Calibration Verification	Na (588.995 nm)	24.9252	0.54	397902.9114
	Continuing Calibration Verification	Ni (230.299 nm)	2.0343	0.10	26128.7496
	Continuing Calibration Verification	Pb (220.353 nm)	0.5101	0.23	2544.3613
	Continuing Calibration Verification	Sb (217.582 nm)	4.9490	0.23	11807.4756
	Continuing Calibration Verification	Se (196.026 nm)	0.4809	0.40	313.4100
	Continuing Calibration Verification	Si (252.851 nm)	9.9534 Q	1.27	66364.9586 Q
	Continuing Calibration Verification	Sn (189.925 nm)	5.1055	0.08	13659.4600
	Continuing Calibration Verification	Sr (216.596 nm)	2.5160	0.21	48959.0667
	Continuing Calibration Verification	Ti (336.122 nm)	2.6033	0.11	412948.7087
	Continuing Calibration Verification	Tl (190.794 nm)	1.0058	0.34	931.0789
	Continuing Calibration Verification	V (292.401 nm)	2.5501	0.03	98017.2149
	Continuing Calibration Verification	Y (360.074 nm)	0.96	0.76	605589.13

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	Y_R (360.074 nm)	0.96	0.76	608892.91
	Continuing Calibration Verification	Zn (213.857 nm)	1.0022	0.16	60752.2712
9/4/2024 18:51:30	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u	> 100.00	13.7579
	Continuing Calibration Blank	Al (237.312 nm)	0.0019	47.57	-6.8785
	Continuing Calibration Blank	As (188.980 nm)	0.0016	12.41	0.1812
	Continuing Calibration Blank	B (249.772 nm)	0.0006	56.77	138.5846
	Continuing Calibration Blank	Ba (230.424 nm)	0.0006	10.21	48.4851
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	90.30	-8.4598
	Continuing Calibration Blank	Ca (317.933 nm)	0.0034	17.40	3391.9707
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	11.8702
	Continuing Calibration Blank	Co (230.786 nm)	0.0000 u	> 100.00	4.3702
	Continuing Calibration Blank	Cr (267.716 nm)	0.0001	84.94	6.6918
	Continuing Calibration Blank	Cu (327.395 nm)	0.0001 u	> 100.00	4.7689
	Continuing Calibration Blank	Fe (234.350 nm)	-0.0051 u	22.24	184.6256
	Continuing Calibration Blank	K (766.491 nm)	0.0303	92.52	765.7439
	Continuing Calibration Blank	Mg (279.078 nm)	0.0005 u	> 100.00	5.9418
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000 u	> 100.00	31.7282
	Continuing Calibration Blank	Mo (202.032 nm)	0.0063	15.45	75.5692
	Continuing Calibration Blank	Na (588.995 nm)	0.0526	17.12	-13403.9636
	Continuing Calibration Blank	Ni (230.299 nm)	0.0001 u	> 100.00	2.9313
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0003 u	> 100.00	1.9756
	Continuing Calibration Blank	Sb (217.582 nm)	0.0134	13.09	31.1932
	Continuing Calibration Blank	Se (196.026 nm)	-0.0043 u	> 100.00	1.7580
	Continuing Calibration Blank	Si (252.851 nm)	0.0045	64.78	158.9323
	Continuing Calibration Blank	Sn (189.925 nm)	0.0000 u	> 100.00	7.2799
	Continuing Calibration Blank	Sr (216.596 nm)	-0.0001 u	> 100.00	5.2601
	Continuing Calibration Blank	Ti (336.122 nm)	0.0068	25.36	1171.8173
	Continuing Calibration Blank	Tl (190.794 nm)	0.0020	31.55	-0.9626
	Continuing Calibration Blank	V (292.401 nm)	0.0000 u	> 100.00	11.8189
	Continuing Calibration Blank	Y (360.074 nm)	0.99	1.86	629278.90
	Continuing Calibration Blank	Y_R (360.074 nm)	0.99	1.86	632791.03
	Continuing Calibration Blank	Zn (213.857 nm)	-0.0001 u	> 100.00	15.4105
9/4/2024 18:54:44	R2408350-007	Ag (328.068 nm)	0.0001	62.23	17.6087
	R2408350-007	Al (237.312 nm)	0.0206	3.52	43.1327
	R2408350-007	As (188.980 nm)	-0.0004 u	> 100.00	-3.4117
	R2408350-007	B (249.772 nm)	0.0550	0.36	2505.6563
	R2408350-007	Ba (230.424 nm)	0.0286	0.26	1750.4325
	R2408350-007	Be (313.107 nm)	0.0000 u	> 100.00	-13.6690
	R2408350-007	Ca (317.933 nm)	13.5276	0.04	527715.9449
	R2408350-007	Cd (214.439 nm)	0.0001	92.68	16.4400
	R2408350-007	Co (230.786 nm)	0.0001	63.49	6.4462
	R2408350-007	Cr (267.716 nm)	0.0006	2.14	39.3829
	R2408350-007	Cu (327.395 nm)	0.0002	53.55	12.2247
	R2408350-007	Fe (234.350 nm)	0.0347	1.70	1093.3395
	R2408350-007	K (766.491 nm)	1.7175	2.46	2988.6628
	R2408350-007	Mg (279.078 nm)	3.8645	0.16	16445.9784
	R2408350-007	Mn (257.610 nm)	0.0365	0.09	13018.3419
	R2408350-007	Mo (202.032 nm)	0.0013	32.70	21.7752
	R2408350-007	Na (588.995 nm)	26.0385	0.52	416313.1843
	R2408350-007	Ni (230.299 nm)	0.0080	4.75	103.7619
	R2408350-007	Pb (220.353 nm)	-0.0002 u	> 100.00	2.4302
	R2408350-007	Sb (217.582 nm)	0.0092	16.79	21.2131
	R2408350-007	Se (196.026 nm)	-0.0078 u	28.27	-0.4835
	R2408350-007	Si (252.851 nm)	2.1731	0.18	14590.4717
	R2408350-007	Sn (189.925 nm)	0.0000 u	> 100.00	7.5217
	R2408350-007	Sr (216.596 nm)	0.0339	0.96	666.7761
	R2408350-007	Ti (336.122 nm)	0.0034	24.16	625.7092

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408350-007	Tl (190.794 nm)	0.0013 u	> 100.00	-1.6141
	R2408350-007	V (292.401 nm)	0.0000 u	> 100.00	9.1672
	R2408350-007	Y (360.074 nm)	0.98	0.68	621741.21
	R2408350-007	Y_R (360.074 nm)	0.98	0.68	625189.85
	R2408350-007	Zn (213.857 nm)	0.0043	1.42	281.8582
9/4/2024 18:57:59	R2408350-008	Ag (328.068 nm)	0.0001	62.61	21.5891
	R2408350-008	Al (237.312 nm)	4.3980	0.28	11729.6876
	R2408350-008	As (188.980 nm)	0.0043	6.50	4.9030
	R2408350-008	B (249.772 nm)	0.0272	0.38	1294.2387
	R2408350-008	Ba (230.424 nm)	0.0977	0.04	5961.9591
	R2408350-008	Be (313.107 nm)	0.0001	7.56	100.3938
	R2408350-008	Ca (317.933 nm)	37.6562	0.14	1463159.0093
	R2408350-008	Cd (214.439 nm)	0.0003	6.95	33.1660
	R2408350-008	Co (230.786 nm)	0.0026	2.37	58.4197
	R2408350-008	Cr (267.716 nm)	0.0054	2.83	328.8393
	R2408350-008	Cu (327.395 nm)	0.0046	1.92	226.3115
	R2408350-008	Fe (234.350 nm)	4.6560	0.12	106543.3718
	R2408350-008	K (766.491 nm)	3.2003	0.87	4942.1537
	R2408350-008	Mg (279.078 nm)	11.9984	0.13	51053.8808
	R2408350-008	Mn (257.610 nm)	1.4786	0.09	525617.4944
	R2408350-008	Mo (202.032 nm)	0.0007	71.17	16.2874
	R2408350-008	Na (588.995 nm)	42.4882	0.36	688334.1918
	R2408350-008	Ni (230.299 nm)	0.0319	2.02	410.8025
	R2408350-008	Pb (220.353 nm)	0.0055	19.68	30.6106
	R2408350-008	Sb (217.582 nm)	0.0059	31.36	13.5212
	R2408350-008	Se (196.026 nm)	-0.0002 u	> 100.00	4.4196
	R2408350-008	Si (252.851 nm)	7.8686	0.11	52491.3322
	R2408350-008	Sn (189.925 nm)	0.0000 u	> 100.00	7.4460
	R2408350-008	Sr (216.596 nm)	0.0831	0.40	1623.4644
	R2408350-008	Ti (336.122 nm)	0.1128	0.57	17985.8406
	R2408350-008	Tl (190.794 nm)	0.0026	59.40	-0.4043
	R2408350-008	V (292.401 nm)	0.0073	2.63	289.8215
	R2408350-008	Y (360.074 nm)	0.97	0.61	613010.77
	R2408350-008	Y_R (360.074 nm)	0.97	0.61	616418.31
	R2408350-008	Zn (213.857 nm)	0.0193	0.57	1192.2876
9/4/2024 19:01:13	R2408350-009	Ag (328.068 nm)	0.0002 u	> 100.00	22.2792
	R2408350-009	Al (237.312 nm)	0.0854	1.59	215.9512
	R2408350-009	As (188.980 nm)	0.0004 u	> 100.00	-2.0012
	R2408350-009	B (249.772 nm)	0.0141	0.20	726.2790
	R2408350-009	Ba (230.424 nm)	0.0763	0.18	4660.6333
	R2408350-009	Be (313.107 nm)	0.0000	41.46	-9.7838
	R2408350-009	Ca (317.933 nm)	31.5984	0.15	1228303.0751
	R2408350-009	Cd (214.439 nm)	0.0002	16.07	26.4628
	R2408350-009	Co (230.786 nm)	0.0002	> 100.00	7.0527
	R2408350-009	Cr (267.716 nm)	0.0006	10.93	37.9598
	R2408350-009	Cu (327.395 nm)	0.0012	25.20	60.2910
	R2408350-009	Fe (234.350 nm)	0.2069	0.65	5021.1015
	R2408350-009	K (766.491 nm)	3.3277	1.02	5110.0980
	R2408350-009	Mg (279.078 nm)	10.0165	0.17	42621.2985
	R2408350-009	Mn (257.610 nm)	0.4603	0.10	163635.8744
	R2408350-009	Mo (202.032 nm)	0.0004	56.33	12.9455
	R2408350-009	Na (588.995 nm)	77.1769 o	0.50	1261966.5004
	R2408350-009	Ni (230.299 nm)	0.0195	2.56	251.1113
	R2408350-009	Pb (220.353 nm)	0.0044	13.05	25.3955
	R2408350-009	Sb (217.582 nm)	0.0049	9.22	11.0920
	R2408350-009	Se (196.026 nm)	-0.0041 u	39.49	1.9137
	R2408350-009	Si (252.851 nm)	2.5811	0.17	17305.3797

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408350-009	Sn (189.925 nm)	-0.0001 u	> 100.00	7.0417
	R2408350-009	Sr (216.596 nm)	0.0835	0.25	1631.1633
	R2408350-009	Ti (336.122 nm)	0.0030	11.85	571.2952
	R2408350-009	Tl (190.794 nm)	0.0041	55.05	0.9697
	R2408350-009	V (292.401 nm)	0.0001 u	> 100.00	13.1989
	R2408350-009	Y (360.074 nm)	0.96	0.50	608316.53
	R2408350-009	Y_R (360.074 nm)	0.96	0.51	611598.18
	R2408350-009	Zn (213.857 nm)	0.0098	0.38	615.4594
9/4/2024 19:04:27	R2408350-010	Ag (328.068 nm)	0.0007	16.27	56.9350
	R2408350-010	Al (237.312 nm)	1.2039	0.67	3202.1114
	R2408350-010	As (188.980 nm)	0.0002 u	> 100.00	-2.2518
	R2408350-010	B (249.772 nm)	0.0098	2.21	540.6444
	R2408350-010	Ba (230.424 nm)	0.0852	0.14	5197.5845
	R2408350-010	Be (313.107 nm)	0.0000	48.33	-2.6539
	R2408350-010	Ca (317.933 nm)	27.5095	0.19	1069782.4066
	R2408350-010	Cd (214.439 nm)	0.0003	15.11	33.3837
	R2408350-010	Co (230.786 nm)	0.0051	2.57	110.3050
	R2408350-010	Cr (267.716 nm)	0.0043	1.54	262.8651
	R2408350-010	Cu (327.395 nm)	0.0015	8.68	72.7940
	R2408350-010	Fe (234.350 nm)	1.3881	0.18	31974.3007
	R2408350-010	K (766.491 nm)	1.8106	2.05	3111.3301
	R2408350-010	Mg (279.078 nm)	8.6393	0.16	36761.7436
	R2408350-010	Mn (257.610 nm)	9.7370 o	0.15	3461201.8445
	R2408350-010	Mo (202.032 nm)	0.0000 u	> 100.00	8.7765
	R2408350-010	Na (588.995 nm)	45.8191	0.68	743415.5455
	R2408350-010	Ni (230.299 nm)	0.0207	0.63	266.6999
	R2408350-010	Pb (220.353 nm)	0.0018	31.75	12.3405
	R2408350-010	Sb (217.582 nm)	0.0034	37.90	7.5350
	R2408350-010	Se (196.026 nm)	0.0048	41.01	7.6175
	R2408350-010	Si (252.851 nm)	4.3134	0.46	28832.8965
	R2408350-010	Sn (189.925 nm)	-0.0001 u	> 100.00	7.1311
	R2408350-010	Sr (216.596 nm)	0.0906	0.59	1768.9054
	R2408350-010	Ti (336.122 nm)	0.0308	1.86	4966.4424
	R2408350-010	Tl (190.794 nm)	0.0043	29.47	1.1308
	R2408350-010	V (292.401 nm)	0.0016	11.69	72.5503
	R2408350-010	Y (360.074 nm)	0.97	0.61	612859.03
	R2408350-010	Y_R (360.074 nm)	0.97	0.61	616224.75
	R2408350-010	Zn (213.857 nm)	0.0202	0.32	1242.8351
9/4/2024 19:07:41	R2408350-011	Ag (328.068 nm)	-0.0001 u	19.51	7.9944
	R2408350-011	Al (237.312 nm)	4.5736	0.09	12198.5258
	R2408350-011	As (188.980 nm)	0.0053	40.37	6.6384
	R2408350-011	B (249.772 nm)	0.2334	0.11	10266.1025
	R2408350-011	Ba (230.424 nm)	0.1019	0.16	6216.2197
	R2408350-011	Be (313.107 nm)	0.0001	6.95	117.9178
	R2408350-011	Ca (317.933 nm)	33.1454	0.18	1288279.7760
	R2408350-011	Cd (214.439 nm)	0.0002	37.96	22.2911
	R2408350-011	Co (230.786 nm)	0.0026	4.11	57.9044
	R2408350-011	Cr (267.716 nm)	0.0059	1.08	361.1323
	R2408350-011	Cu (327.395 nm)	0.0059	2.01	287.1674
	R2408350-011	Fe (234.350 nm)	5.8875	0.18	134643.6151
	R2408350-011	K (766.491 nm)	4.5623	0.32	6736.6662
	R2408350-011	Mg (279.078 nm)	9.0420	0.23	38475.0486
	R2408350-011	Mn (257.610 nm)	0.2197	0.12	78119.9703
	R2408350-011	Mo (202.032 nm)	0.0001 u	> 100.00	8.9967
	R2408350-011	Na (588.995 nm)	43.0445	0.42	697533.7666
	R2408350-011	Ni (230.299 nm)	0.0297	1.78	382.2386
	R2408350-011	Pb (220.353 nm)	0.0041	15.65	23.4404

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408350-011	Sb (217.582 nm)	0.0025	33.54	5.1812
	R2408350-011	Se (196.026 nm)	-0.0030 u	> 100.00	2.6264
	R2408350-011	Si (252.851 nm)	7.7560	0.10	51742.2660
	R2408350-011	Sn (189.925 nm)	0.0000 u	> 100.00	7.3251
	R2408350-011	Sr (216.596 nm)	0.1487	0.45	2899.5738
	R2408350-011	Ti (336.122 nm)	0.1104	1.41	17604.5396
	R2408350-011	Tl (190.794 nm)	0.0021	37.79	-0.9433
	R2408350-011	V (292.401 nm)	0.0072	1.60	286.1078
	R2408350-011	Y (360.074 nm)	0.97	0.60	613464.88
	R2408350-011	Y_R (360.074 nm)	0.97	0.60	616873.86
	R2408350-011	Zn (213.857 nm)	0.0169	0.36	1046.7832
9/4/2024 19:10:54	R2408350-012	Ag (328.068 nm)	0.0000 u	> 100.00	13.3316
	R2408350-012	Al (237.312 nm)	0.0166	6.00	32.4517
	R2408350-012	As (188.980 nm)	-0.0001 u	> 100.00	-2.8671
	R2408350-012	B (249.772 nm)	0.0144	2.00	741.2889
	R2408350-012	Ba (230.424 nm)	0.0388	0.47	2373.3125
	R2408350-012	Be (313.107 nm)	0.0000 u	> 100.00	-9.1251
	R2408350-012	Ca (317.933 nm)	27.7796	0.23	1080252.0526
	R2408350-012	Cd (214.439 nm)	0.0000 u	> 100.00	11.3398
	R2408350-012	Co (230.786 nm)	-0.0001 u	> 100.00	1.4629
	R2408350-012	Cr (267.716 nm)	0.0024	1.77	150.8860
	R2408350-012	Cu (327.395 nm)	0.0001 u	> 100.00	5.4880
	R2408350-012	Fe (234.350 nm)	0.0445	3.63	1317.0402
	R2408350-012	K (766.491 nm)	0.9503	6.20	1977.8289
	R2408350-012	Mg (279.078 nm)	8.5829	0.29	36521.8019
	R2408350-012	Mn (257.610 nm)	0.0141	0.14	5037.1999
	R2408350-012	Mo (202.032 nm)	0.0003 u	91.13	11.6952
	R2408350-012	Na (588.995 nm)	20.2164	0.53	320035.2935
	R2408350-012	Ni (230.299 nm)	0.0085	7.74	110.7306
	R2408350-012	Pb (220.353 nm)	-0.0003 u	13.04	1.5765
	R2408350-012	Sb (217.582 nm)	0.0026	39.84	5.5131
	R2408350-012	Se (196.026 nm)	-0.0013 u	> 100.00	3.7171
	R2408350-012	Si (252.851 nm)	2.6540	0.00	17790.2796
	R2408350-012	Sn (189.925 nm)	-0.0002 u	> 100.00	6.8622
	R2408350-012	Sr (216.596 nm)	0.0544	0.84	1064.8212
	R2408350-012	Ti (336.122 nm)	0.0008	31.40	215.9202
	R2408350-012	Tl (190.794 nm)	0.0022	3.94	-0.7776
	R2408350-012	V (292.401 nm)	0.0002	51.25	17.5833
	R2408350-012	Y (360.074 nm)	0.98	0.40	621651.17
	R2408350-012	Y_R (360.074 nm)	0.98	0.40	625090.28
	R2408350-012	Zn (213.857 nm)	0.0032	1.77	216.5411
9/4/2024 19:14:08	R2408350-013	Ag (328.068 nm)	0.0002	78.98	24.7663
	R2408350-013	Al (237.312 nm)	1.8002	0.52	4794.3147
	R2408350-013	As (188.980 nm)	0.0034	28.22	3.3483
	R2408350-013	B (249.772 nm)	0.0305	0.94	1438.7230
	R2408350-013	Ba (230.424 nm)	0.0678	0.12	4139.4271
	R2408350-013	Be (313.107 nm)	0.0000	48.69	9.2255
	R2408350-013	Ca (317.933 nm)	25.1769	0.16	979347.1307
	R2408350-013	Cd (214.439 nm)	0.0002	18.09	27.1320
	R2408350-013	Co (230.786 nm)	0.0077	1.51	166.3188
	R2408350-013	Cr (267.716 nm)	0.0031	2.26	188.2016
	R2408350-013	Cu (327.395 nm)	0.0040	4.21	193.5935
	R2408350-013	Fe (234.350 nm)	4.1670	0.21	95384.4031
	R2408350-013	K (766.491 nm)	1.2341	1.82	2351.8122
	R2408350-013	Mg (279.078 nm)	2.8578	0.08	12162.7439
	R2408350-013	Mn (257.610 nm)	4.1542 o	0.15	1476722.9768
	R2408350-013	Mo (202.032 nm)	0.0000 u	> 100.00	8.4034

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408350-013	Na (588.995 nm)	1.4856	0.57	10292.8336
	R2408350-013	Ni (230.299 nm)	0.0179	1.35	231.5205
	R2408350-013	Pb (220.353 nm)	0.0013	49.98	9.5517
	R2408350-013	Sb (217.582 nm)	0.0035	7.53	7.5828
	R2408350-013	Se (196.026 nm)	0.0003 u	> 100.00	4.7027
	R2408350-013	Si (252.851 nm)	4.1441	0.35	27706.6115
	R2408350-013	Sn (189.925 nm)	-0.0008 u	53.58	5.3179
	R2408350-013	Sr (216.596 nm)	0.0926	0.17	1808.2174
	R2408350-013	Ti (336.122 nm)	0.0349	2.78	5632.4151
	R2408350-013	Tl (190.794 nm)	0.0032	45.45	0.1083
	R2408350-013	V (292.401 nm)	0.0029	4.66	124.3314
	R2408350-013	Y (360.074 nm)	1.00	0.44	632037.51
	R2408350-013	Y_R (360.074 nm)	1.00	0.44	635693.42
	R2408350-013	Zn (213.857 nm)	0.0111	0.72	689.8627
9/4/2024 19:17:22	R2408350-014	Ag (328.068 nm)	0.0000 u	> 100.00	12.7087
	R2408350-014	Al (237.312 nm)	0.0118	6.98	19.4460
	R2408350-014	As (188.980 nm)	0.0002 u	> 100.00	-2.3759
	R2408350-014	B (249.772 nm)	0.0063	1.51	385.6857
	R2408350-014	Ba (230.424 nm)	0.0179	2.09	1097.8659
	R2408350-014	Be (313.107 nm)	0.0000 u	> 100.00	-11.8437
	R2408350-014	Ca (317.933 nm)	12.7055	1.75	495840.6807
	R2408350-014	Cd (214.439 nm)	0.0000 u	> 100.00	11.5203
	R2408350-014	Co (230.786 nm)	0.0000 u	> 100.00	4.3436
	R2408350-014	Cr (267.716 nm)	0.0013	6.60	78.8840
	R2408350-014	Cu (327.395 nm)	0.0000	18.07	3.0880
	R2408350-014	Fe (234.350 nm)	0.0799	0.77	2124.4891
	R2408350-014	K (766.491 nm)	0.4935	8.41	1376.0793
	R2408350-014	Mg (279.078 nm)	5.6514	1.70	24048.8785
	R2408350-014	Mn (257.610 nm)	0.0015	2.39	575.0274
	R2408350-014	Mo (202.032 nm)	0.0002 u	> 100.00	10.0307
	R2408350-014	Na (588.995 nm)	5.7460	2.17	80744.7641
	R2408350-014	Ni (230.299 nm)	0.0090	3.39	116.4515
	R2408350-014	Pb (220.353 nm)	0.0002 u	> 100.00	4.4472
	R2408350-014	Sb (217.582 nm)	0.0028	58.67	5.9770
	R2408350-014	Se (196.026 nm)	-0.0037 u	69.53	2.1406
	R2408350-014	Si (252.851 nm)	2.6511	1.84	17770.9248
	R2408350-014	Sn (189.925 nm)	0.0000 u	> 100.00	7.3148
	R2408350-014	Sr (216.596 nm)	0.0262	1.86	516.6056
	R2408350-014	Ti (336.122 nm)	0.0005	29.87	175.1171
	R2408350-014	Tl (190.794 nm)	-0.0005 u	> 100.00	-3.3687
	R2408350-014	V (292.401 nm)	0.0001 u	> 100.00	14.0300
	R2408350-014	Y (360.074 nm)	0.99	1.95	623515.54
	R2408350-014	Y_R (360.074 nm)	0.98	1.95	627064.12
	R2408350-014	Zn (213.857 nm)	0.0020	3.04	138.2623
9/4/2024 19:20:35	Continuing Calibration Verification	Ag (328.068 nm)	0.5083	0.19	31929.7140
	Continuing Calibration Verification	Al (237.312 nm)	9.9052	0.40	26432.8875
	Continuing Calibration Verification	As (188.980 nm)	0.9796	0.43	1725.7601
	Continuing Calibration Verification	B (249.772 nm)	2.3015	0.18	100246.8388
	Continuing Calibration Verification	Ba (230.424 nm)	9.9313	0.15	605036.6888
	Continuing Calibration Verification	Be (313.107 nm)	0.2482	0.21	305281.5137
	Continuing Calibration Verification	Ca (317.933 nm)	25.6552	0.21	997892.4079
	Continuing Calibration Verification	Cd (214.439 nm)	0.5017	0.18	31675.2483
	Continuing Calibration Verification	Co (230.786 nm)	2.4993	0.13	52845.8458
	Continuing Calibration Verification	Cr (267.716 nm)	0.5158	0.22	31074.7817
	Continuing Calibration Verification	Cu (327.395 nm)	1.2251	0.59	59328.1346
	Continuing Calibration Verification	Fe (234.350 nm)	5.0200	0.15	114849.2085
	Continuing Calibration Verification	K (766.491 nm)	24.5279	0.48	33040.9795

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	Mg (279.078 nm)	25.5425	0.23	108680.3377
	Continuing Calibration Verification	Mn (257.610 nm)	0.7436	0.12	264347.2386
	Continuing Calibration Verification	Mo (202.032 nm)	2.5801	0.26	27528.2401
	Continuing Calibration Verification	Na (588.995 nm)	24.7996	0.62	395825.6338
	Continuing Calibration Verification	Ni (230.299 nm)	2.0327	0.21	26107.5340
	Continuing Calibration Verification	Pb (220.353 nm)	0.5119	0.22	2553.2909
	Continuing Calibration Verification	Sb (217.582 nm)	4.9393	0.25	11784.3231
	Continuing Calibration Verification	Se (196.026 nm)	0.4845	1.25	315.6891
	Continuing Calibration Verification	Si (252.851 nm)	9.9209 Q	1.33	66148.6620 Q
	Continuing Calibration Verification	Sn (189.925 nm)	5.1075	0.21	13664.6586
	Continuing Calibration Verification	Sr (216.596 nm)	2.5176	0.45	48990.3767
	Continuing Calibration Verification	Ti (336.122 nm)	2.5986	0.06	412198.1741
	Continuing Calibration Verification	Tl (190.794 nm)	1.0017	0.69	927.2911
	Continuing Calibration Verification	V (292.401 nm)	2.5463	0.11	97874.1115
	Continuing Calibration Verification	Y (360.074 nm)	0.96	0.69	605799.73
	Continuing Calibration Verification	Y_R (360.074 nm)	0.96	0.69	609193.24
	Continuing Calibration Verification	Zn (213.857 nm)	1.0003	0.20	60636.8276
9/4/2024 19:23:50	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u	> 100.00	13.3040
	Continuing Calibration Blank	Al (237.312 nm)	0.0022	57.63	-6.0621
	Continuing Calibration Blank	As (188.980 nm)	0.0006	81.10	-1.5761
	Continuing Calibration Blank	B (249.772 nm)	0.0003	38.34	127.6927
	Continuing Calibration Blank	Ba (230.424 nm)	0.0007	5.67	53.6810
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	98.65	-9.0700
	Continuing Calibration Blank	Ca (317.933 nm)	0.0033	3.77	3386.9082
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000	73.06	12.5712
	Continuing Calibration Blank	Co (230.786 nm)	0.0000 u	> 100.00	3.0350
	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u	> 100.00	5.2497
	Continuing Calibration Blank	Cu (327.395 nm)	0.0000 u	> 100.00	0.9092
	Continuing Calibration Blank	Fe (234.350 nm)	-0.0052 u	20.77	182.1003
	Continuing Calibration Blank	K (766.491 nm)	0.0090 u	> 100.00	737.7254
	Continuing Calibration Blank	Mg (279.078 nm)	-0.0003 u	80.68	2.3610
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000	69.12	35.5611
	Continuing Calibration Blank	Mo (202.032 nm)	0.0061	19.25	73.2938
	Continuing Calibration Blank	Na (588.995 nm)	0.0456	5.02	-13520.9028
	Continuing Calibration Blank	Ni (230.299 nm)	0.0001 u	> 100.00	2.4521
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0011 u	61.52	-2.4285
	Continuing Calibration Blank	Sb (217.582 nm)	0.0116	15.61	26.9514
	Continuing Calibration Blank	Se (196.026 nm)	-0.0052 u	78.83	1.1835
	Continuing Calibration Blank	Si (252.851 nm)	0.0029 u	> 100.00	148.3833
	Continuing Calibration Blank	Sn (189.925 nm)	0.0000 u	> 100.00	7.4125
	Continuing Calibration Blank	Sr (216.596 nm)	0.0000 u	> 100.00	6.8927
	Continuing Calibration Blank	Ti (336.122 nm)	0.0068	26.95	1165.0265
	Continuing Calibration Blank	Tl (190.794 nm)	0.0002	> 100.00	-2.6635
	Continuing Calibration Blank	V (292.401 nm)	0.0001	94.76	16.4673
	Continuing Calibration Blank	Y (360.074 nm)	1.01	0.49	636533.23
	Continuing Calibration Blank	Y_R (360.074 nm)	1.00	0.49	640204.51
	Continuing Calibration Blank	Zn (213.857 nm)	0.0000 u	> 100.00	21.0583
9/4/2024 19:27:03	R2408350-014S	Ag (328.068 nm)	0.0495	0.31	3119.7052
	R2408350-014S	Al (237.312 nm)	1.9954	0.36	5315.2511
	R2408350-014S	As (188.980 nm)	0.0398	6.00	67.5093
	R2408350-014S	B (249.772 nm)	0.9416	0.11	41078.5047
	R2408350-014S	Ba (230.424 nm)	1.9984	0.11	121753.7070
	R2408350-014S	Be (313.107 nm)	0.0498	0.10	61224.5572
	R2408350-014S	Ca (317.933 nm)	14.3570	0.16	559870.0090
	R2408350-014S	Cd (214.439 nm)	0.0501	0.16	3175.4855
	R2408350-014S	Co (230.786 nm)	0.4987	0.07	10547.7539
	R2408350-014S	Cr (267.716 nm)	0.2019	0.16	12167.3297

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408350-014S	Cu (327.395 nm)	0.2508	0.12	12146.4868
	R2408350-014S	Fe (234.350 nm)	1.0582	0.15	24447.6548
	R2408350-014S	K (766.491 nm)	19.7672	0.23	26768.8194
	R2408350-014S	Mg (279.078 nm)	7.4852	0.12	31851.3893
	R2408350-014S	Mn (257.610 nm)	0.4892	0.08	173928.9110
	R2408350-014S	Mo (202.032 nm)	0.5003	0.75	5344.6971
	R2408350-014S	Na (588.995 nm)	24.9280	0.41	397949.6829
	R2408350-014S	Ni (230.299 nm)	0.5006	0.13	6431.0065
	R2408350-014S	Pb (220.353 nm)	0.5150	0.22	2568.7827
	R2408350-014S	Sb (217.582 nm)	0.5032	1.28	1200.0536
	R2408350-014S	Se (196.026 nm)	1.0015	0.50	647.7329
	R2408350-014S	Si (252.851 nm)	2.9751	0.04	19927.6101
	R2408350-014S	Sn (189.925 nm)	5.0154	0.22	13418.4007
	R2408350-014S	Sr (216.596 nm)	2.0257	0.21	39420.4588
	R2408350-014S	Ti (336.122 nm)	0.5086	0.04	80757.0968
	R2408350-014S	Tl (190.794 nm)	1.9741	0.27	1830.2830
	R2408350-014S	V (292.401 nm)	0.4963	0.08	19086.6827
	R2408350-014S	Y (360.074 nm)	0.98	0.52	619232.87
	R2408350-014S	Y_R (360.074 nm)	0.98	0.52	622726.27
	R2408350-014S	Zn (213.857 nm)	0.5016	0.08	30416.8937
9/4/2024 19:30:18	R2408350-014SD	Ag (328.068 nm)	0.0502	2.07	3165.1783
	R2408350-014SD	Al (237.312 nm)	2.0389	2.19	5431.3662
	R2408350-014SD	As (188.980 nm)	0.0400	3.77	67.8493
	R2408350-014SD	B (249.772 nm)	0.9586	2.09	41817.7329
	R2408350-014SD	Ba (230.424 nm)	2.0324	1.99	123827.0628
	R2408350-014SD	Be (313.107 nm)	0.0508	2.08	62409.6747
	R2408350-014SD	Ca (317.933 nm)	14.6656	2.08	571832.3551
	R2408350-014SD	Cd (214.439 nm)	0.0512	1.82	3245.3701
	R2408350-014SD	Co (230.786 nm)	0.5092	2.10	10768.6215
	R2408350-014SD	Cr (267.716 nm)	0.2083	1.99	12549.1417
	R2408350-014SD	Cu (327.395 nm)	0.2536	2.13	12284.0654
	R2408350-014SD	Fe (234.350 nm)	1.1201	2.08	25858.7017
	R2408350-014SD	K (766.491 nm)	20.1451	2.41	27266.7737
	R2408350-014SD	Mg (279.078 nm)	7.6445	2.06	32529.0790
	R2408350-014SD	Mn (257.610 nm)	0.4988	2.07	177340.1582
	R2408350-014SD	Mo (202.032 nm)	0.5103	1.48	5451.0960
	R2408350-014SD	Na (588.995 nm)	25.3246	2.27	404507.3302
	R2408350-014SD	Ni (230.299 nm)	0.5111	2.15	6565.9615
	R2408350-014SD	Pb (220.353 nm)	0.5273	1.81	2629.8927
	R2408350-014SD	Sb (217.582 nm)	0.5114	3.09	1219.5493
	R2408350-014SD	Se (196.026 nm)	1.0212	1.85	660.3507
	R2408350-014SD	Si (252.851 nm)	3.0408	2.15	20364.3490
	R2408350-014SD	Sn (189.925 nm)	5.1197	2.02	13697.3126
	R2408350-014SD	Sr (216.596 nm)	2.0650	2.01	40184.2491
	R2408350-014SD	Ti (336.122 nm)	0.5162	2.10	81958.7824
	R2408350-014SD	Tl (190.794 nm)	2.0211	1.91	1873.9089
	R2408350-014SD	V (292.401 nm)	0.5069	2.12	19491.5366
	R2408350-014SD	Y (360.074 nm)	0.97	2.34	611396.48
	R2408350-014SD	Y_R (360.074 nm)	0.96	2.35	614854.61
	R2408350-014SD	Zn (213.857 nm)	0.5117	2.07	31029.5504
9/4/2024 19:33:32	R2408350-014A	Ag (328.068 nm)	0.0484	0.41	3053.5483
	R2408350-014A	Al (237.312 nm)	1.9568	0.35	5212.2307
	R2408350-014A	As (188.980 nm)	0.0373	4.40	63.1334
	R2408350-014A	B (249.772 nm)	0.9274	0.09	40459.7740
	R2408350-014A	Ba (230.424 nm)	1.9557	0.13	119155.7452
	R2408350-014A	Be (313.107 nm)	0.0488	0.13	60022.2134
	R2408350-014A	Ca (317.933 nm)	14.2772	0.06	556773.9095

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408350-014A	Cd (214.439 nm)	0.0491	0.05	3111.6660
	R2408350-014A	Co (230.786 nm)	0.4893	0.14	10349.6147
	R2408350-014A	Cr (267.716 nm)	0.1983	0.07	11949.7716
	R2408350-014A	Cu (327.395 nm)	0.2436	0.29	11798.9590
	R2408350-014A	Fe (234.350 nm)	1.0688	0.09	24688.1168
	R2408350-014A	K (766.491 nm)	19.3871	0.48	26268.0704
	R2408350-014A	Mg (279.078 nm)	7.3495	0.03	31273.9333
	R2408350-014A	Mn (257.610 nm)	0.4799	0.06	170604.0193
	R2408350-014A	Mo (202.032 nm)	0.4920	0.82	5256.6603
	R2408350-014A	Na (588.995 nm)	24.3954	0.49	389141.9615
	R2408350-014A	Ni (230.299 nm)	0.4913	0.07	6311.2018
	R2408350-014A	Pb (220.353 nm)	0.5061	0.09	2524.3158
	R2408350-014A	Sb (217.582 nm)	0.4930	1.14	1175.5550
	R2408350-014A	Se (196.026 nm)	0.9749	0.99	630.6226
	R2408350-014A	Si (252.851 nm)	2.9203	0.06	19562.8278
	R2408350-014A	Sn (189.925 nm)	4.9112	0.02	13139.8810
	R2408350-014A	Sr (216.596 nm)	1.9836	0.60	38600.6816
	R2408350-014A	Ti (336.122 nm)	0.4975	0.15	78985.3929
	R2408350-014A	Tl (190.794 nm)	1.9431	0.03	1801.4362
	R2408350-014A	V (292.401 nm)	0.4872	0.05	18736.6169
	R2408350-014A	Y (360.074 nm)	0.98	0.61	618665.58
	R2408350-014A	Y_R (360.074 nm)	0.98	0.61	622176.77
	R2408350-014A	Zn (213.857 nm)	0.4953	0.02	30037.4798
9/4/2024 19:36:47	R2408350-014L 5X	Ag (328.068 nm)	0.0001	> 100.00	15.9903
	R2408350-014L 5X	Al (237.312 nm)	0.0031	5.24	-3.6577
	R2408350-014L 5X	As (188.980 nm)	0.0004 u	> 100.00	-1.9388
	R2408350-014L 5X	B (249.772 nm)	0.0015	17.32	176.1191
	R2408350-014L 5X	Ba (230.424 nm)	0.0034	2.08	220.0755
	R2408350-014L 5X	Be (313.107 nm)	0.0000 u	61.34	-14.2918
	R2408350-014L 5X	Ca (317.933 nm)	2.4153	2.71	96899.7921
	R2408350-014L 5X	Cd (214.439 nm)	-0.0001 u	58.59	8.1241
	R2408350-014L 5X	Co (230.786 nm)	-0.0001 u	> 100.00	0.7442
	R2408350-014L 5X	Cr (267.716 nm)	0.0003	29.38	18.5837
	R2408350-014L 5X	Cu (327.395 nm)	0.0000 u	> 100.00	1.6746
	R2408350-014L 5X	Fe (234.350 nm)	0.0078	3.65	477.7721
	R2408350-014L 5X	K (766.491 nm)	0.1319	18.38	899.5858
	R2408350-014L 5X	Mg (279.078 nm)	1.0790	2.80	4594.7841
	R2408350-014L 5X	Mn (257.610 nm)	0.0003	4.93	121.4992
	R2408350-014L 5X	Mo (202.032 nm)	0.0042	19.36	53.2596
	R2408350-014L 5X	Na (588.995 nm)	1.1247	3.40	4324.5602
	R2408350-014L 5X	Ni (230.299 nm)	0.0019	21.22	25.2793
	R2408350-014L 5X	Pb (220.353 nm)	-0.0005 u	> 100.00	0.6657
	R2408350-014L 5X	Sb (217.582 nm)	0.0093	22.56	21.4716
	R2408350-014L 5X	Se (196.026 nm)	0.0015 u	> 100.00	5.5177
	R2408350-014L 5X	Si (252.851 nm)	0.5049	2.15	3489.2196
	R2408350-014L 5X	Sn (189.925 nm)	0.0024	32.48	13.7333
	R2408350-014L 5X	Sr (216.596 nm)	0.0048	3.82	100.6046
	R2408350-014L 5X	Ti (336.122 nm)	0.0026	34.05	499.9379
	R2408350-014L 5X	Tl (190.794 nm)	0.0021	96.61	-0.9585
	R2408350-014L 5X	V (292.401 nm)	0.0000 u	> 100.00	9.9612
	R2408350-014L 5X	Y (360.074 nm)	1.01	0.45	637437.91
	R2408350-014L 5X	Y_R (360.074 nm)	1.01	0.45	641099.32
	R2408350-014L 5X	Zn (213.857 nm)	0.0021	2.07	148.7118
9/4/2024 19:40:01	R2408350-015	Ag (328.068 nm)	0.0000 u	> 100.00	10.7152
	R2408350-015	Al (237.312 nm)	0.0813	2.05	205.0386
	R2408350-015	As (188.980 nm)	0.0009	19.88	-1.0248
	R2408350-015	B (249.772 nm)	0.0101	1.46	551.5717

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408350-015	Ba (230.424 nm)	0.0430	0.15	2628.8709
	R2408350-015	Be (313.107 nm)	0.0000 u	> 100.00	-14.2488
	R2408350-015	Ca (317.933 nm)	9.4396	0.06	369224.7068
	R2408350-015	Cd (214.439 nm)	0.0000	90.71	12.5761
	R2408350-015	Co (230.786 nm)	0.0000 u	> 100.00	3.7406
	R2408350-015	Cr (267.716 nm)	0.0006	16.29	42.0041
	R2408350-015	Cu (327.395 nm)	0.0001 u	> 100.00	6.4393
	R2408350-015	Fe (234.350 nm)	0.0693	0.65	1882.8137
	R2408350-015	K (766.491 nm)	0.8507	0.95	1846.6553
	R2408350-015	Mg (279.078 nm)	2.9756	0.06	12664.1817
	R2408350-015	Mn (257.610 nm)	0.0160	0.25	5711.6246
	R2408350-015	Mo (202.032 nm)	0.0012	54.02	20.8751
	R2408350-015	Na (588.995 nm)	11.1219	0.54	169643.9732
	R2408350-015	Ni (230.299 nm)	0.0068	2.84	88.3762
	R2408350-015	Pb (220.353 nm)	-0.0008 u	> 100.00	-0.6767
	R2408350-015	Sb (217.582 nm)	0.0058	30.67	13.1750
	R2408350-015	Se (196.026 nm)	-0.0007 u	> 100.00	4.0846
	R2408350-015	Si (252.851 nm)	2.0497	0.15	13768.9794
	R2408350-015	Sn (189.925 nm)	0.0003 u	> 100.00	8.0774
	R2408350-015	Sr (216.596 nm)	0.0228	0.09	449.7983
	R2408350-015	Ti (336.122 nm)	0.0031	14.77	580.7208
	R2408350-015	Tl (190.794 nm)	0.0001 u	> 100.00	-2.7324
	R2408350-015	V (292.401 nm)	0.0001	73.93	14.1392
	R2408350-015	Y (360.074 nm)	1.00	0.67	630268.82
	R2408350-015	Y_R (360.074 nm)	0.99	0.68	633790.68
	R2408350-015	Zn (213.857 nm)	0.0022	2.40	150.3448
9/4/2024 19:43:15	R2408350-016	Ag (328.068 nm)	0.0000 u	> 100.00	11.2248
	R2408350-016	Al (237.312 nm)	0.0053	22.60	2.0864
	R2408350-016	As (188.980 nm)	0.0004 u	> 100.00	-2.0006
	R2408350-016	B (249.772 nm)	0.0004	41.51	131.1779
	R2408350-016	Ba (230.424 nm)	0.0001	10.62	16.0679
	R2408350-016	Be (313.107 nm)	0.0000 u	20.59	-14.2005
	R2408350-016	Ca (317.933 nm)	0.0201	1.94	4037.7541
	R2408350-016	Cd (214.439 nm)	0.0000 u	> 100.00	9.9425
	R2408350-016	Co (230.786 nm)	-0.0001 u	90.43	1.5864
	R2408350-016	Cr (267.716 nm)	0.0005	7.29	31.2097
	R2408350-016	Cu (327.395 nm)	0.0000 u	> 100.00	3.3641
	R2408350-016	Fe (234.350 nm)	-0.0052 u	2.42	183.1821
	R2408350-016	K (766.491 nm)	-0.0081 u	> 100.00	715.1868
	R2408350-016	Mg (279.078 nm)	-0.0003 u	88.05	2.2511
	R2408350-016	Mn (257.610 nm)	0.0001	22.72	67.4486
	R2408350-016	Mo (202.032 nm)	0.0008	47.59	16.5499
	R2408350-016	Na (588.995 nm)	0.0355	21.28	-13687.9847
	R2408350-016	Ni (230.299 nm)	-0.0002 u	10.02	-0.8266
	R2408350-016	Pb (220.353 nm)	-0.0003 u	> 100.00	1.7949
	R2408350-016	Sb (217.582 nm)	0.0066	11.25	15.1694
	R2408350-016	Se (196.026 nm)	-0.0039 u	22.01	2.0093
	R2408350-016	Si (252.851 nm)	0.0119	46.41	208.0831
	R2408350-016	Sn (189.925 nm)	-0.0003 u	> 100.00	6.6725
	R2408350-016	Sr (216.596 nm)	-0.0003 u	1.54	0.4115
	R2408350-016	Ti (336.122 nm)	0.0008	45.27	217.5287
	R2408350-016	Tl (190.794 nm)	0.0028	70.24	-0.2246
	R2408350-016	V (292.401 nm)	0.0000 u	> 100.00	11.3118
	R2408350-016	Y (360.074 nm)	1.00	1.76	633674.08
	R2408350-016	Y_R (360.074 nm)	1.00	1.76	637319.02
	R2408350-016	Zn (213.857 nm)	0.0014	4.10	103.0770
9/4/2024 19:46:29	R2408385-021	Ag (328.068 nm)	0.0000 u	> 100.00	14.8762

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408385-021	Al (237.312 nm)	0.1357	0.92	350.3174
	R2408385-021	As (188.980 nm)	0.0018	77.91	0.5259
	R2408385-021	B (249.772 nm)	0.1477	0.22	6536.7250
	R2408385-021	Ba (230.424 nm)	0.0617	0.25	3768.0346
	R2408385-021	Be (313.107 nm)	0.0000 u	> 100.00	-10.0302
	R2408385-021	Ca (317.933 nm)	141.3735 o	0.14	5484194.7321
	R2408385-021	Cd (214.439 nm)	0.0001	47.19	17.8800
	R2408385-021	Co (230.786 nm)	0.0003	34.50	10.3430
	R2408385-021	Cr (267.716 nm)	0.0010	2.88	62.0099
	R2408385-021	Cu (327.395 nm)	0.0023	1.76	110.5736
	R2408385-021	Fe (234.350 nm)	1.1543	0.09	26639.5431
	R2408385-021	K (766.491 nm)	14.9594	0.16	20434.6111
	R2408385-021	Mg (279.078 nm)	26.1445	0.05	111241.7423
	R2408385-021	Mn (257.610 nm)	0.2766	0.03	98356.9953
	R2408385-021	Mo (202.032 nm)	0.0016	25.63	25.9666
	R2408385-021	Na (588.995 nm)	175.9709 o	0.76	2895678.8959
	R2408385-021	Ni (230.299 nm)	0.0147	0.48	190.0673
	R2408385-021	Pb (220.353 nm)	0.0074	10.20	39.9934
	R2408385-021	Sb (217.582 nm)	0.0048	33.43	10.8701
	R2408385-021	Se (196.026 nm)	-0.0033 u	> 100.00	2.4251
	R2408385-021	Si (252.851 nm)	3.5706	0.19	23889.8702
	R2408385-021	Sn (189.925 nm)	0.0004 u	> 100.00	8.4911
	R2408385-021	Sr (216.596 nm)	0.5298	0.17	10315.4901
	R2408385-021	Ti (336.122 nm)	0.0024	12.63	464.9520
	R2408385-021	Tl (190.794 nm)	0.0029	61.45	-0.1257
	R2408385-021	V (292.401 nm)	0.0007	8.13	38.9493
	R2408385-021	Y (360.074 nm)	0.92	0.62	585003.99
	R2408385-021	Y_R (360.074 nm)	0.92	0.62	588158.81
	R2408385-021	Zn (213.857 nm)	0.0046	0.80	300.5222
9/4/2024 19:49:43	R2408385-022	Ag (328.068 nm)	0.0001 u	> 100.00	17.5771
	R2408385-022	Al (237.312 nm)	0.0347	4.55	80.5649
	R2408385-022	As (188.980 nm)	0.0001 u	> 100.00	-2.4062
	R2408385-022	B (249.772 nm)	0.0563	0.07	2561.7972
	R2408385-022	Ba (230.424 nm)	0.2150	0.17	13105.9948
	R2408385-022	Be (313.107 nm)	0.0000 u	> 100.00	-16.3058
	R2408385-022	Ca (317.933 nm)	196.7400 o	0.23	7630707.5845
	R2408385-022	Cd (214.439 nm)	0.0001	87.99	14.8439
	R2408385-022	Co (230.786 nm)	0.0000 u	> 100.00	3.6047
	R2408385-022	Cr (267.716 nm)	0.0007	8.86	42.8167
	R2408385-022	Cu (327.395 nm)	0.0001	89.83	6.2638
	R2408385-022	Fe (234.350 nm)	0.0290	3.00	963.2932
	R2408385-022	K (766.491 nm)	1.4817	2.40	2677.9392
	R2408385-022	Mg (279.078 nm)	65.6121 o	0.18	279165.9661
	R2408385-022	Mn (257.610 nm)	0.0011	1.55	434.8604
	R2408385-022	Mo (202.032 nm)	0.0046	5.96	57.7121
	R2408385-022	Na (588.995 nm)	38.2237	0.32	617814.7533
	R2408385-022	Ni (230.299 nm)	0.0180	2.63	232.5333
	R2408385-022	Pb (220.353 nm)	0.0006 u	> 100.00	6.3033
	R2408385-022	Sb (217.582 nm)	0.0050	26.90	11.3677
	R2408385-022	Se (196.026 nm)	-0.0033 u	> 100.00	2.4370
	R2408385-022	Si (252.851 nm)	4.8808	0.08	32608.6805
	R2408385-022	Sn (189.925 nm)	0.0001 u	> 100.00	7.7690
	R2408385-022	Sr (216.596 nm)	5.7677 o	0.31	112226.9375
	R2408385-022	Ti (336.122 nm)	0.0005	46.00	170.3141
	R2408385-022	Tl (190.794 nm)	0.0035	19.33	0.3537
	R2408385-022	V (292.401 nm)	0.0006	37.24	34.3665
	R2408385-022	Y (360.074 nm)	0.93	0.52	589489.65

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408385-022	Y_R (360.074 nm)	0.93	0.52	592695.05
	R2408385-022	Zn (213.857 nm)	0.0101	1.38	635.0166
9/4/2024 19:52:57	Continuing Calibration Verification	Ag (328.068 nm)	0.5076	0.20	31887.3632
	Continuing Calibration Verification	Al (237.312 nm)	9.8583	0.25	26307.7027
	Continuing Calibration Verification	As (188.980 nm)	0.9770	0.22	1721.3027
	Continuing Calibration Verification	B (249.772 nm)	2.2957	0.09	99994.4469
	Continuing Calibration Verification	Ba (230.424 nm)	9.9088	0.32	603662.2092
	Continuing Calibration Verification	Be (313.107 nm)	0.2477	0.08	304657.8514
	Continuing Calibration Verification	Ca (317.933 nm)	25.6388	0.12	997256.3951
	Continuing Calibration Verification	Cd (214.439 nm)	0.5005	0.11	31600.8785
	Continuing Calibration Verification	Co (230.786 nm)	2.4973	0.11	52803.0315
	Continuing Calibration Verification	Cr (267.716 nm)	0.5147	0.10	31009.0784
	Continuing Calibration Verification	Cu (327.395 nm)	1.2200	0.18	59085.1385
	Continuing Calibration Verification	Fe (234.350 nm)	5.0023	0.07	114444.0395
	Continuing Calibration Verification	K (766.491 nm)	24.5142	0.36	33022.9595
	Continuing Calibration Verification	Mg (279.078 nm)	25.5131	0.09	108555.3477
	Continuing Calibration Verification	Mn (257.610 nm)	0.7407	0.03	263317.9667
	Continuing Calibration Verification	Mo (202.032 nm)	2.5731	0.23	27453.5220
	Continuing Calibration Verification	Na (588.995 nm)	24.6780	0.40	393815.7150
	Continuing Calibration Verification	Ni (230.299 nm)	2.0250	0.04	26008.3709
	Continuing Calibration Verification	Pb (220.353 nm)	0.5091	0.26	2539.2414
	Continuing Calibration Verification	Sb (217.582 nm)	4.9275	0.19	11756.0026
	Continuing Calibration Verification	Se (196.026 nm)	0.4809	1.25	313.3984
	Continuing Calibration Verification	Si (252.851 nm)	9.8701 Q	1.24	65810.6290 Q
	Continuing Calibration Verification	Sn (189.925 nm)	5.0888	0.12	13614.8612
	Continuing Calibration Verification	Sr (216.596 nm)	2.5147	0.09	48933.8491
	Continuing Calibration Verification	Ti (336.122 nm)	2.5922	0.06	411191.8350
	Continuing Calibration Verification	Tl (190.794 nm)	1.0018	0.59	927.4237
	Continuing Calibration Verification	V (292.401 nm)	2.5410	0.06	97669.3722
	Continuing Calibration Verification	Y (360.074 nm)	0.96	0.71	607847.42
	Continuing Calibration Verification	Y_R (360.074 nm)	0.96	0.71	611320.80
	Continuing Calibration Verification	Zn (213.857 nm)	0.9993	0.05	60580.4550
9/4/2024 19:56:10	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u	> 100.00	13.1609
	Continuing Calibration Blank	Al (237.312 nm)	0.0009	> 100.00	-9.4634
	Continuing Calibration Blank	As (188.980 nm)	0.0011 u	> 100.00	-0.6388
	Continuing Calibration Blank	B (249.772 nm)	0.0003 u	96.75	127.6350
	Continuing Calibration Blank	Ba (230.424 nm)	0.0008	2.44	60.7410
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	12.49	-2.7628
	Continuing Calibration Blank	Ca (317.933 nm)	0.0034	7.69	3392.2620
	Continuing Calibration Blank	Cd (214.439 nm)	-0.0001 u	66.38	7.6763
	Continuing Calibration Blank	Co (230.786 nm)	0.0002	98.46	7.0434
	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u	> 100.00	3.0082
	Continuing Calibration Blank	Cu (327.395 nm)	0.0000	36.43	2.4386
	Continuing Calibration Blank	Fe (234.350 nm)	-0.0053 u	16.62	180.7999
	Continuing Calibration Blank	K (766.491 nm)	0.0744	25.62	823.8867
	Continuing Calibration Blank	Mg (279.078 nm)	0.0003 u	> 100.00	5.1990
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000	9.17	35.6958
	Continuing Calibration Blank	Mo (202.032 nm)	0.0063	14.32	75.6176
	Continuing Calibration Blank	Na (588.995 nm)	0.0563	3.70	-13342.9712
	Continuing Calibration Blank	Ni (230.299 nm)	0.0004	82.23	6.2823
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0003 u	> 100.00	1.9171
	Continuing Calibration Blank	Sb (217.582 nm)	0.0133	7.14	31.0327
	Continuing Calibration Blank	Se (196.026 nm)	-0.0037 u	27.76	2.1675
	Continuing Calibration Blank	Si (252.851 nm)	0.0020 u	> 100.00	142.4633
	Continuing Calibration Blank	Sn (189.925 nm)	0.0003 u	> 100.00	8.2408
	Continuing Calibration Blank	Sr (216.596 nm)	-0.0001 u	> 100.00	5.0691
	Continuing Calibration Blank	Ti (336.122 nm)	0.0069	25.23	1183.3519

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Tl (190.794 nm)	0.0012	56.65	-1.7064
	Continuing Calibration Blank	V (292.401 nm)	0.0004	23.07	24.8663
	Continuing Calibration Blank	Y (360.074 nm)	1.01	0.40	641057.64
	Continuing Calibration Blank	Y_R (360.074 nm)	1.01	0.40	644734.76
	Continuing Calibration Blank	Zn (213.857 nm)	-0.0001 u	48.06	16.3734
9/4/2024 19:59:24	R2408385-023	Ag (328.068 nm)	0.0001 u	> 100.00	17.0391
	R2408385-023	Al (237.312 nm)	0.0199	6.18	41.0608
	R2408385-023	As (188.980 nm)	0.0083	35.60	11.9740
	R2408385-023	B (249.772 nm)	0.1877	0.28	8280.4944
	R2408385-023	Ba (230.424 nm)	0.0014	7.14	98.1508
	R2408385-023	Be (313.107 nm)	0.0000 u	> 100.00	-15.3132
	R2408385-023	Ca (317.933 nm)	0.3282	0.06	15984.2014
	R2408385-023	Cd (214.439 nm)	0.0000	> 100.00	13.6796
	R2408385-023	Co (230.786 nm)	0.0002 u	> 100.00	6.7332
	R2408385-023	Cr (267.716 nm)	0.0020	7.88	126.2953
	R2408385-023	Cu (327.395 nm)	0.0107	2.71	518.6636
	R2408385-023	Fe (234.350 nm)	0.0071	8.07	463.7298
	R2408385-023	K (766.491 nm)	7.2978	0.68	10340.5794
	R2408385-023	Mg (279.078 nm)	0.2555	0.77	1090.9341
	R2408385-023	Mn (257.610 nm)	0.0010	0.23	378.3575
	R2408385-023	Mo (202.032 nm)	0.0034	8.79	45.1075
	R2408385-023	Na (588.995 nm)	1107.0964 o	2.25	18293288.6239
	R2408385-023	Ni (230.299 nm)	0.0054	7.60	69.9061
	R2408385-023	Pb (220.353 nm)	0.7929	0.10	3952.8291
	R2408385-023	Sb (217.582 nm)	0.0276	2.98	65.1542
	R2408385-023	Se (196.026 nm)	-0.0023 u	48.85	3.0717
	R2408385-023	Si (252.851 nm)	1.4839	0.13	10003.8106
	R2408385-023	Sn (189.925 nm)	0.0006 u	> 100.00	9.1207
	R2408385-023	Sr (216.596 nm)	0.0026	8.59	56.3606
	R2408385-023	Ti (336.122 nm)	0.0071	12.68	1223.0151
	R2408385-023	Tl (190.794 nm)	0.0018	74.33	-1.2292
	R2408385-023	V (292.401 nm)	0.0035	5.08	145.2813
	R2408385-023	Y (360.074 nm)	0.79	0.70	501859.78
	R2408385-023	Y_R (360.074 nm)	0.79	0.70	504438.49
	R2408385-023	Zn (213.857 nm)	0.0047	0.97	304.5961
9/4/2024 20:02:38	R2408385-024	Ag (328.068 nm)	0.0005	14.17	42.2297
	R2408385-024	Al (237.312 nm)	0.0869	0.62	220.1403
	R2408385-024	As (188.980 nm)	0.0001 u	> 100.00	-2.5381
	R2408385-024	B (249.772 nm)	0.1211	0.21	5383.3403
	R2408385-024	Ba (230.424 nm)	0.0253	0.54	1553.9928
	R2408385-024	Be (313.107 nm)	0.0000 u	> 100.00	-17.7167
	R2408385-024	Ca (317.933 nm)	273.3377 o	0.42	10600337.8311
	R2408385-024	Cd (214.439 nm)	0.0007	1.72	54.1344
	R2408385-024	Co (230.786 nm)	0.0029	5.74	64.7349
	R2408385-024	Cr (267.716 nm)	0.0010	12.39	61.9227
	R2408385-024	Cu (327.395 nm)	0.0033	8.80	158.9428
	R2408385-024	Fe (234.350 nm)	0.7350	0.29	17071.5585
	R2408385-024	K (766.491 nm)	7.9844	0.54	11245.2235
	R2408385-024	Mg (279.078 nm)	57.6864 o	0.30	245443.8941
	R2408385-024	Mn (257.610 nm)	5.3099 o	0.26	1887537.5312
	R2408385-024	Mo (202.032 nm)	0.0011	4.78	20.0859
	R2408385-024	Na (588.995 nm)	421.9883 o	0.17	6963958.9375
	R2408385-024	Ni (230.299 nm)	0.0275	2.42	354.9125
	R2408385-024	Pb (220.353 nm)	0.0024	28.98	15.1182
	R2408385-024	Sb (217.582 nm)	0.0060	22.73	13.5405
	R2408385-024	Se (196.026 nm)	0.0000 u	> 100.00	4.5162
	R2408385-024	Si (252.851 nm)	6.5792	0.15	43910.8453

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408385-024	Sn (189.925 nm)	-0.0003 u	> 100.00	6.5561
	R2408385-024	Sr (216.596 nm)	1.1316	0.35	22024.3204
	R2408385-024	Ti (336.122 nm)	0.0023	25.05	456.2181
	R2408385-024	Tl (190.794 nm)	0.0057	13.88	2.4469
	R2408385-024	V (292.401 nm)	0.0001	33.14	13.8483
	R2408385-024	Y (360.074 nm)	0.87	0.34	553088.76
	R2408385-024	Y_R (360.074 nm)	0.87	0.34	556178.61
	R2408385-024	Zn (213.857 nm)	0.0092	0.69	576.3366
9/4/2024 20:05:52	R2408385-023 5X	Ag (328.068 nm)	0.0000 u	> 100.00	14.4196
	R2408385-023 5X	Al (237.312 nm)	0.0038	33.84	-1.7674
	R2408385-023 5X	As (188.980 nm)	0.0009 u	> 100.00	-1.0810
	R2408385-023 5X	B (249.772 nm)	0.0356	2.62	1660.9061
	R2408385-023 5X	Ba (230.424 nm)	0.0004	3.35	31.7836
	R2408385-023 5X	Be (313.107 nm)	0.0000 u	66.22	-16.4728
	R2408385-023 5X	Ca (317.933 nm)	0.0664	2.45	5834.8169
	R2408385-023 5X	Cd (214.439 nm)	0.0000 u	53.36	9.5674
	R2408385-023 5X	Co (230.786 nm)	0.0000 u	> 100.00	2.4533
	R2408385-023 5X	Cr (267.716 nm)	0.0004	22.24	28.1455
	R2408385-023 5X	Cu (327.395 nm)	0.0014	32.08	69.2838
	R2408385-023 5X	Fe (234.350 nm)	-0.0059 u	5.64	166.2676
	R2408385-023 5X	K (766.491 nm)	1.2480	5.10	2370.0526
	R2408385-023 5X	Mg (279.078 nm)	0.0504	3.57	218.1541
	R2408385-023 5X	Mn (257.610 nm)	0.0002	12.27	99.1694
	R2408385-023 5X	Mo (202.032 nm)	0.0011	48.65	19.6193
	R2408385-023 5X	Na (588.995 nm)	411.5653 o	2.64	6791599.2999
	R2408385-023 5X	Ni (230.299 nm)	0.0010	57.12	13.9552
	R2408385-023 5X	Pb (220.353 nm)	0.1610	2.13	805.4952
	R2408385-023 5X	Sb (217.582 nm)	0.0081	9.06	18.6355
	R2408385-023 5X	Se (196.026 nm)	-0.0010 u	> 100.00	3.8873
	R2408385-023 5X	Si (252.851 nm)	0.2822	0.80	2006.7877
	R2408385-023 5X	Sn (189.925 nm)	-0.0011 u	45.56	4.5543
	R2408385-023 5X	Sr (216.596 nm)	0.0004	65.34	13.3435
	R2408385-023 5X	Ti (336.122 nm)	0.0014	15.83	314.9233
	R2408385-023 5X	Tl (190.794 nm)	0.0003 u	> 100.00	-2.6032
	R2408385-023 5X	V (292.401 nm)	0.0008	37.72	42.3634
	R2408385-023 5X	Y (360.074 nm)	0.91	0.56	575029.92
	R2408385-023 5X	Y_R (360.074 nm)	0.91	0.56	578231.07
	R2408385-023 5X	Zn (213.857 nm)	0.0006	2.76	56.9076
9/4/2024 20:09:06	Continuing Calibration Verification	Ag (328.068 nm)	0.5115	2.57	32131.4160
	Continuing Calibration Verification	Al (237.312 nm)	9.9046	2.71	26431.4163
	Continuing Calibration Verification	As (188.980 nm)	0.9857	2.90	1736.5011
	Continuing Calibration Verification	B (249.772 nm)	2.3140	2.44	100789.3488
	Continuing Calibration Verification	Ba (230.424 nm)	9.9923	2.23	608747.6122
	Continuing Calibration Verification	Be (313.107 nm)	0.2501	2.34	307581.9526
	Continuing Calibration Verification	Ca (317.933 nm)	25.9156	2.37	1007985.2601
	Continuing Calibration Verification	Cd (214.439 nm)	0.5062	2.27	31956.6492
	Continuing Calibration Verification	Co (230.786 nm)	2.5173	2.20	53226.0166
	Continuing Calibration Verification	Cr (267.716 nm)	0.5203	2.39	31344.9470
	Continuing Calibration Verification	Cu (327.395 nm)	1.2291	2.65	59522.5079
	Continuing Calibration Verification	Fe (234.350 nm)	5.0525	2.37	115590.2147
	Continuing Calibration Verification	K (766.491 nm)	24.7432	2.90	33324.7296
	Continuing Calibration Verification	Mg (279.078 nm)	25.8093	2.31	109815.3979
	Continuing Calibration Verification	Mn (257.610 nm)	0.7481	2.40	265969.5269
	Continuing Calibration Verification	Mo (202.032 nm)	2.5958	2.29	27695.3104
	Continuing Calibration Verification	Na (588.995 nm)	24.7919	2.60	395698.2254
	Continuing Calibration Verification	Ni (230.299 nm)	2.0449	2.41	26264.1101
	Continuing Calibration Verification	Pb (220.353 nm)	0.5165	2.44	2576.3661

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	Sb (217.582 nm)	4.9573	2.58	11827.1929
	Continuing Calibration Verification	Se (196.026 nm)	0.4879	3.24	317.8774
	Continuing Calibration Verification	Si (252.851 nm)	9.9497 Q	1.34	66340.7397 Q
	Continuing Calibration Verification	Sn (189.925 nm)	5.1484	2.37	13774.1366
	Continuing Calibration Verification	Sr (216.596 nm)	2.5420	2.25	49464.6481
	Continuing Calibration Verification	Ti (336.122 nm)	2.6132	2.48	414513.1472
	Continuing Calibration Verification	Tl (190.794 nm)	1.0145	2.24	939.1628
	Continuing Calibration Verification	V (292.401 nm)	2.5648	2.42	98581.9498
	Continuing Calibration Verification	Y (360.074 nm)	0.95	2.67	598960.16
	Continuing Calibration Verification	Y_R (360.074 nm)	0.95	2.67	602420.72
	Continuing Calibration Verification	Zn (213.857 nm)	1.0062	2.19	60999.0326
9/4/2024 20:12:20	Continuing Calibration Blank	Ag (328.068 nm)	0.0002	> 100.00	25.8151
	Continuing Calibration Blank	Al (237.312 nm)	0.0021	18.80	-6.4349
	Continuing Calibration Blank	As (188.980 nm)	0.0004 u	> 100.00	-1.9228
	Continuing Calibration Blank	B (249.772 nm)	0.0005	43.57	132.6880
	Continuing Calibration Blank	Ba (230.424 nm)	0.0009	7.71	67.4392
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	61.91	-2.3316
	Continuing Calibration Blank	Ca (317.933 nm)	0.0037	10.80	3403.7958
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	9.9486
	Continuing Calibration Blank	Co (230.786 nm)	0.0004	37.67	11.1567
	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u	> 100.00	3.3791
	Continuing Calibration Blank	Cu (327.395 nm)	0.0000 u	> 100.00	2.9202
	Continuing Calibration Blank	Fe (234.350 nm)	-0.0052 u	16.43	182.3470
	Continuing Calibration Blank	K (766.491 nm)	0.1442	21.01	915.8580
	Continuing Calibration Blank	Mg (279.078 nm)	0.0001 u	> 100.00	4.0592
	Continuing Calibration Blank	Mn (257.610 nm)	0.0001	32.37	46.8925
	Continuing Calibration Blank	Mo (202.032 nm)	0.0067	12.41	80.3045
	Continuing Calibration Blank	Na (588.995 nm)	0.3101	4.42	-9145.7204
	Continuing Calibration Blank	Ni (230.299 nm)	0.0006	33.08	9.2799
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0009 u	> 100.00	-1.0712
	Continuing Calibration Blank	Sb (217.582 nm)	0.0129	3.64	30.1990
	Continuing Calibration Blank	Se (196.026 nm)	-0.0022 u	67.80	3.1233
	Continuing Calibration Blank	Si (252.851 nm)	0.0023 u	> 100.00	144.7914
	Continuing Calibration Blank	Sn (189.925 nm)	0.0007	67.68	9.3077
	Continuing Calibration Blank	Sr (216.596 nm)	0.0000 u	> 100.00	7.4134
	Continuing Calibration Blank	Ti (336.122 nm)	0.0072	26.16	1226.7057
	Continuing Calibration Blank	Tl (190.794 nm)	0.0004 u	> 100.00	-2.4782
	Continuing Calibration Blank	V (292.401 nm)	0.0004	29.46	25.1518
	Continuing Calibration Blank	Y (360.074 nm)	1.01	0.23	638087.97
	Continuing Calibration Blank	Y_R (360.074 nm)	1.01	0.24	641900.59
	Continuing Calibration Blank	Zn (213.857 nm)	0.0000 u	> 100.00	20.2099
9/4/2024 20:15:34	PBW-444156	Ag (328.068 nm)	0.0000 u	> 100.00	15.0699
	PBW-444156	Al (237.312 nm)	0.0021	> 100.00	-6.2220
	PBW-444156	As (188.980 nm)	0.0002 u	> 100.00	-2.3765
	PBW-444156	B (249.772 nm)	0.0006	20.42	140.6833
	PBW-444156	Ba (230.424 nm)	0.0001	17.48	18.2638
	PBW-444156	Be (313.107 nm)	0.0000 u	> 100.00	-9.8122
	PBW-444156	Ca (317.933 nm)	0.0089	1.83	3606.0805
	PBW-444156	Cd (214.439 nm)	0.0000 u	> 100.00	11.2715
	PBW-444156	Co (230.786 nm)	0.0001 u	> 100.00	5.9253
	PBW-444156	Cr (267.716 nm)	0.0001	93.54	9.1090
	PBW-444156	Cu (327.395 nm)	-0.0001 u	> 100.00	-0.8827
	PBW-444156	Fe (234.350 nm)	-0.0059 u	14.51	166.8354
	PBW-444156	K (766.491 nm)	0.0854	50.58	838.3561
	PBW-444156	Mg (279.078 nm)	-0.0018 u	9.55	-3.7630
	PBW-444156	Mn (257.610 nm)	0.0000	52.41	36.6864
	PBW-444156	Mo (202.032 nm)	0.0014	40.47	23.3838

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	PBW-444156	Na (588.995 nm)	0.2521	4.65	-10104.5848
	PBW-444156	Ni (230.299 nm)	0.0002 u	> 100.00	3.2112
	PBW-444156	Pb (220.353 nm)	-0.0010 u	54.52	-1.6140
	PBW-444156	Sb (217.582 nm)	0.0115	1.82	26.8128
	PBW-444156	Se (196.026 nm)	-0.0040 u	83.30	1.9555
	PBW-444156	Si (252.851 nm)	0.0100	45.11	195.8974
	PBW-444156	Sn (189.925 nm)	0.0001	95.70	7.7312
	PBW-444156	Sr (216.596 nm)	-0.0001 u	> 100.00	4.7494
	PBW-444156	Ti (336.122 nm)	0.0026	36.88	497.1272
	PBW-444156	Tl (190.794 nm)	0.0001 u	> 100.00	-2.7520
	PBW-444156	V (292.401 nm)	0.0001	53.68	16.6818
	PBW-444156	Y (360.074 nm)	1.02	0.55	643535.75
	PBW-444156	Y_R (360.074 nm)	1.02	0.55	647419.71
	PBW-444156	Zn (213.857 nm)	0.0003	5.32	35.7107
9/4/2024 20:18:48	LCSW-444156	Ag (328.068 nm)	0.0487	0.32	3069.8952
	LCSW-444156	Al (237.312 nm)	1.9469	0.22	5185.9970
	LCSW-444156	As (188.980 nm)	0.0368	4.63	62.3181
	LCSW-444156	B (249.772 nm)	0.9139	0.17	39874.8772
	LCSW-444156	Ba (230.424 nm)	1.9520	0.38	118926.7955
	LCSW-444156	Be (313.107 nm)	0.0489	0.20	60096.1251
	LCSW-444156	Ca (317.933 nm)	1.9929	0.25	80523.6222
	LCSW-444156	Cd (214.439 nm)	0.0500	0.20	3168.4072
	LCSW-444156	Co (230.786 nm)	0.4951	0.26	10470.7585
	LCSW-444156	Cr (267.716 nm)	0.1986	0.20	11967.4990
	LCSW-444156	Cu (327.395 nm)	0.2461	0.14	11918.1233
	LCSW-444156	Fe (234.350 nm)	0.9906	0.29	22905.4363
	LCSW-444156	K (766.491 nm)	18.7264	0.05	25397.5904
	LCSW-444156	Mg (279.078 nm)	1.9405	0.23	8259.8814
	LCSW-444156	Mn (257.610 nm)	0.4779	0.22	169903.1401
	LCSW-444156	Mo (202.032 nm)	0.4866	1.01	5198.9757
	LCSW-444156	Na (588.995 nm)	19.2677	0.27	304346.6237
	LCSW-444156	Ni (230.299 nm)	0.4893	0.35	6285.2906
	LCSW-444156	Pb (220.353 nm)	0.5169	0.27	2578.3431
	LCSW-444156	Sb (217.582 nm)	0.4852	1.14	1157.0262
	LCSW-444156	Se (196.026 nm)	0.9755	0.74	631.0039
	LCSW-444156	Si (252.851 nm)	0.3103	1.14	2194.3235
	LCSW-444156	Sn (189.925 nm)	4.9617	0.35	13275.0371
	LCSW-444156	Sr (216.596 nm)	1.9918	0.50	38761.2705
	LCSW-444156	Ti (336.122 nm)	0.4960	0.04	78757.6478
	LCSW-444156	Tl (190.794 nm)	1.9631	0.23	1820.0313
	LCSW-444156	V (292.401 nm)	0.4883	0.21	18776.7214
	LCSW-444156	Y (360.074 nm)	0.99	0.48	629010.54
	LCSW-444156	Y_R (360.074 nm)	0.99	0.48	632677.05
	LCSW-444156	Zn (213.857 nm)	0.4994	0.19	30283.4807
9/4/2024 20:22:02	R2408139-001	Ag (328.068 nm)	0.0001	> 100.00	21.8871
	R2408139-001	Al (237.312 nm)	-0.0008 u	39.90	-14.0007
	R2408139-001	As (188.980 nm)	0.0147	8.46	23.2782
	R2408139-001	B (249.772 nm)	0.0155	1.39	786.0298
	R2408139-001	Ba (230.424 nm)	0.2917	0.24	17781.4591
	R2408139-001	Be (313.107 nm)	0.0000 u	84.69	-14.1895
	R2408139-001	Ca (317.933 nm)	84.4907 o	0.22	3278894.4741
	R2408139-001	Cd (214.439 nm)	0.0000 u	> 100.00	12.9578
	R2408139-001	Co (230.786 nm)	0.0000 u	> 100.00	4.1945
	R2408139-001	Cr (267.716 nm)	0.0005	12.99	31.4607
	R2408139-001	Cu (327.395 nm)	0.0000 u	> 100.00	3.2154
	R2408139-001	Fe (234.350 nm)	1.2429	0.15	28660.7746
	R2408139-001	K (766.491 nm)	1.9325	1.65	3271.8929

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408139-001	Mg (279.078 nm)	16.9351	0.18	72057.9469
	R2408139-001	Mn (257.610 nm)	0.7648	0.11	271891.6661
	R2408139-001	Mo (202.032 nm)	0.0048	20.48	59.0916
	R2408139-001	Na (588.995 nm)	4.6102	0.42	61962.7806
	R2408139-001	Ni (230.299 nm)	0.0162	1.99	209.6112
	R2408139-001	Pb (220.353 nm)	-0.0002 u	> 100.00	2.0252
	R2408139-001	Sb (217.582 nm)	0.0089	24.07	20.4576
	R2408139-001	Se (196.026 nm)	0.0015 u	> 100.00	5.4662
	R2408139-001	Si (252.851 nm)	4.6752	0.08	31240.7057
	R2408139-001	Sn (189.925 nm)	0.0022	45.61	13.2644
	R2408139-001	Sr (216.596 nm)	0.1302	0.36	2539.1560
	R2408139-001	Ti (336.122 nm)	0.0025	32.79	484.8968
	R2408139-001	Tl (190.794 nm)	0.0024	> 100.00	-0.6116
	R2408139-001	V (292.401 nm)	0.0000 u	> 100.00	10.0110
	R2408139-001	Y (360.074 nm)	0.98	0.47	619316.93
	R2408139-001	Y_R (360.074 nm)	0.98	0.47	622902.31
	R2408139-001	Zn (213.857 nm)	0.0031	1.10	208.4709
9/4/2024 20:25:15	R2408139-002	Ag (328.068 nm)	0.0002	88.30	24.0635
	R2408139-002	Al (237.312 nm)	0.0059	17.42	3.9025
	R2408139-002	As (188.980 nm)	-0.0001 u	> 100.00	-2.8598
	R2408139-002	B (249.772 nm)	0.1845	0.22	8140.8699
	R2408139-002	Ba (230.424 nm)	0.1604	0.13	9782.6597
	R2408139-002	Be (313.107 nm)	0.0000	32.76	-7.3779
	R2408139-002	Ca (317.933 nm)	69.7060 o	0.19	2705702.5898
	R2408139-002	Cd (214.439 nm)	0.0000 u	> 100.00	13.3057
	R2408139-002	Co (230.786 nm)	0.0000 u	> 100.00	4.3462
	R2408139-002	Cr (267.716 nm)	0.0005	13.80	35.0164
	R2408139-002	Cu (327.395 nm)	0.0010	6.75	51.9133
	R2408139-002	Fe (234.350 nm)	0.0014	56.75	332.5000
	R2408139-002	K (766.491 nm)	1.5576	1.85	2777.9647
	R2408139-002	Mg (279.078 nm)	9.1038	0.15	38738.0783
	R2408139-002	Mn (257.610 nm)	0.0013	1.23	498.6658
	R2408139-002	Mo (202.032 nm)	0.0011	22.04	19.9200
	R2408139-002	Na (588.995 nm)	52.7729	0.45	858408.5776
	R2408139-002	Ni (230.299 nm)	0.0055	4.50	71.7915
	R2408139-002	Pb (220.353 nm)	-0.0007 u	> 100.00	-0.1970
	R2408139-002	Sb (217.582 nm)	0.0075	1.01	17.1970
	R2408139-002	Se (196.026 nm)	-0.0001 u	> 100.00	4.4588
	R2408139-002	Si (252.851 nm)	1.6086	0.08	10834.1109
	R2408139-002	Sn (189.925 nm)	0.0004 u	> 100.00	8.5872
	R2408139-002	Sr (216.596 nm)	0.1379	0.27	2690.4103
	R2408139-002	Ti (336.122 nm)	0.0008	44.19	215.4545
	R2408139-002	Tl (190.794 nm)	0.0012 u	> 100.00	-1.7651
	R2408139-002	V (292.401 nm)	0.0001	17.64	14.2282
	R2408139-002	Y (360.074 nm)	0.97	0.46	611103.35
	R2408139-002	Y_R (360.074 nm)	0.96	0.46	614631.96
	R2408139-002	Zn (213.857 nm)	0.0036	1.43	236.9048
9/4/2024 20:28:29	R2408139-003	Ag (328.068 nm)	0.0010	5.88	75.9128
	R2408139-003	Al (237.312 nm)	0.0256	4.67	56.2722
	R2408139-003	As (188.980 nm)	0.0096	36.56	14.2088
	R2408139-003	B (249.772 nm)	0.0764	0.35	3437.0373
	R2408139-003	Ba (230.424 nm)	0.3238	0.36	19738.1543
	R2408139-003	Be (313.107 nm)	0.0000	22.90	22.7333
	R2408139-003	Ca (317.933 nm)	41.9178	0.35	1628378.5240
	R2408139-003	Cd (214.439 nm)	0.0001	18.09	17.1525
	R2408139-003	Co (230.786 nm)	0.0349	0.94	741.3165
	R2408139-003	Cr (267.716 nm)	0.0022	6.00	134.1187

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408139-003	Cu (327.395 nm)	0.0039	4.60	192.4923
	R2408139-003	Fe (234.350 nm)	8.2258	0.34	187998.6493
	R2408139-003	K (766.491 nm)	3.2904	0.35	5060.9531
	R2408139-003	Mg (279.078 nm)	5.1931	0.35	22098.9826
	R2408139-003	Mn (257.610 nm)	17.7734 o	0.37	6317874.5387
	R2408139-003	Mo (202.032 nm)	0.0025	7.52	34.9296
	R2408139-003	Na (588.995 nm)	10.1590	0.36	153721.0872
	R2408139-003	Ni (230.299 nm)	0.0233	0.85	300.7335
	R2408139-003	Pb (220.353 nm)	0.0033	23.03	19.8711
	R2408139-003	Sb (217.582 nm)	0.0054	13.01	12.1366
	R2408139-003	Se (196.026 nm)	0.0071	23.19	9.0946
	R2408139-003	Si (252.851 nm)	2.9496	0.18	19757.7896
	R2408139-003	Sn (189.925 nm)	0.0005 u	> 100.00	8.8003
	R2408139-003	Sr (216.596 nm)	0.1269	0.34	2474.8462
	R2408139-003	Ti (336.122 nm)	0.0015	16.04	330.1739
	R2408139-003	Tl (190.794 nm)	0.0068	15.39	3.4545
	R2408139-003	V (292.401 nm)	0.0010	2.75	49.8391
	R2408139-003	Y (360.074 nm)	0.99	0.32	625325.46
	R2408139-003	Y_R (360.074 nm)	0.99	0.32	628976.00
	R2408139-003	Zn (213.857 nm)	0.0157	0.34	970.7017
9/4/2024 20:31:43	R2408139-004	Ag (328.068 nm)	0.0011	15.02	83.0328
	R2408139-004	Al (237.312 nm)	0.0269	2.17	59.8036
	R2408139-004	As (188.980 nm)	0.0094	6.25	13.8820
	R2408139-004	B (249.772 nm)	0.0775	0.13	3485.1539
	R2408139-004	Ba (230.424 nm)	0.3268	0.10	19916.5378
	R2408139-004	Be (313.107 nm)	0.0000	21.72	23.7979
	R2408139-004	Ca (317.933 nm)	42.4922	0.13	1650646.6814
	R2408139-004	Cd (214.439 nm)	0.0001	12.54	20.0328
	R2408139-004	Co (230.786 nm)	0.0348	0.48	740.2672
	R2408139-004	Cr (267.716 nm)	0.0022	3.63	136.8615
	R2408139-004	Cu (327.395 nm)	0.0036	3.99	176.3396
	R2408139-004	Fe (234.350 nm)	8.4003	0.15	191979.8735
	R2408139-004	K (766.491 nm)	3.3030	0.85	5077.4858
	R2408139-004	Mg (279.078 nm)	5.2720	0.20	22434.7877
	R2408139-004	Mn (257.610 nm)	17.8209 o	0.11	6334779.6869
	R2408139-004	Mo (202.032 nm)	0.0024	10.60	33.6422
	R2408139-004	Na (588.995 nm)	10.3214	0.33	156406.0709
	R2408139-004	Ni (230.299 nm)	0.0235	1.17	303.5086
	R2408139-004	Pb (220.353 nm)	0.0032	20.98	19.0221
	R2408139-004	Sb (217.582 nm)	0.0034	45.17	7.4643
	R2408139-004	Se (196.026 nm)	0.0104	30.73	11.2247
	R2408139-004	Si (252.851 nm)	2.9901	0.03	20027.2539
	R2408139-004	Sn (189.925 nm)	-0.0001 u	> 100.00	7.2088
	R2408139-004	Sr (216.596 nm)	0.1281	0.30	2499.3795
	R2408139-004	Ti (336.122 nm)	0.0013	16.81	297.0152
	R2408139-004	Tl (190.794 nm)	0.0067	20.69	3.3936
	R2408139-004	V (292.401 nm)	0.0012	5.07	57.2366
	R2408139-004	Y (360.074 nm)	0.99	0.48	625965.02
	R2408139-004	Y_R (360.074 nm)	0.99	0.48	629705.50
	R2408139-004	Zn (213.857 nm)	0.0141	0.35	875.9130
9/4/2024 20:34:56	R2408139-005	Ag (328.068 nm)	0.0002	49.24	27.0968
	R2408139-005	Al (237.312 nm)	0.0054	21.56	2.3758
	R2408139-005	As (188.980 nm)	-0.0005 u	> 100.00	-3.6037
	R2408139-005	B (249.772 nm)	0.1349	0.44	5983.1934
	R2408139-005	Ba (230.424 nm)	0.0960	0.10	5855.6081
	R2408139-005	Be (313.107 nm)	0.0000 u	> 100.00	-9.6199
	R2408139-005	Ca (317.933 nm)	36.4010	0.16	1414496.4899

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408139-005	Cd (214.439 nm)	0.0001	19.04	20.5274
	R2408139-005	Co (230.786 nm)	0.0015	11.36	34.6690
	R2408139-005	Cr (267.716 nm)	0.0008	3.42	50.4654
	R2408139-005	Cu (327.395 nm)	0.0008	9.72	37.8718
	R2408139-005	Fe (234.350 nm)	0.9378	0.27	21700.1965
	R2408139-005	K (766.491 nm)	1.7947	0.80	3090.3591
	R2408139-005	Mg (279.078 nm)	5.4169	0.11	23051.3861
	R2408139-005	Mn (257.610 nm)	0.7605	0.10	270367.4684
	R2408139-005	Mo (202.032 nm)	0.0001 u	> 100.00	9.1795
	R2408139-005	Na (588.995 nm)	9.0953	0.42	136130.0330
	R2408139-005	Ni (230.299 nm)	0.0190	1.72	245.2279
	R2408139-005	Pb (220.353 nm)	-0.0002 u	> 100.00	2.4044
	R2408139-005	Sb (217.582 nm)	0.0055	13.57	12.4831
	R2408139-005	Se (196.026 nm)	0.0000 u	> 100.00	4.5277
	R2408139-005	Si (252.851 nm)	4.3742	0.10	29237.5255
	R2408139-005	Sn (189.925 nm)	-0.0007 u	57.62	5.6338
	R2408139-005	Sr (216.596 nm)	0.1373	0.27	2677.9671
	R2408139-005	Ti (336.122 nm)	0.0004	45.22	149.9441
	R2408139-005	Tl (190.794 nm)	0.0011	53.95	-1.8569
	R2408139-005	V (292.401 nm)	0.0002	29.38	19.7252
	R2408139-005	Y (360.074 nm)	0.99	0.62	629691.24
	R2408139-005	Y_R (360.074 nm)	0.99	0.62	633422.29
	R2408139-005	Zn (213.857 nm)	0.0035	2.38	231.1361
9/4/2024 20:38:10	Continuing Calibration Verification1	Ag (328.068 nm)	0.5090	0.15	31973.8660
	Continuing Calibration Verification1	Al (237.312 nm)	9.8485	0.25	26281.5273
	Continuing Calibration Verification1	As (188.980 nm)	0.9826	0.21	1731.1315
	Continuing Calibration Verification1	B (249.772 nm)	2.2991	0.04	100142.5473
	Continuing Calibration Verification1	Ba (230.424 nm)	9.8855	0.22	602244.9202
	Continuing Calibration Verification1	Be (313.107 nm)	0.2490	0.06	306188.1190
	Continuing Calibration Verification1	Ca (317.933 nm)	25.7588	0.21	1001906.9819
	Continuing Calibration Verification1	Cd (214.439 nm)	0.5028	0.27	31743.5063
	Continuing Calibration Verification1	Co (230.786 nm)	2.5020	0.17	52901.9507
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5181	0.17	31213.4009
	Continuing Calibration Verification1	Cu (327.395 nm)	1.2268	0.49	59410.5165
	Continuing Calibration Verification1	Fe (234.350 nm)	5.0353	0.19	115196.9335
	Continuing Calibration Verification1	K (766.491 nm)	24.4784	0.44	32975.8057
	Continuing Calibration Verification1	Mg (279.078 nm)	25.6742	0.17	109240.6301
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7446	0.07	264703.8511
	Continuing Calibration Verification1	Mo (202.032 nm)	2.5843	0.33	27572.9430
	Continuing Calibration Verification1	Na (588.995 nm)	24.6512	0.68	393371.8515
	Continuing Calibration Verification1	Ni (230.299 nm)	2.0303	0.12	26076.5278
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5135	0.24	2561.3228
	Continuing Calibration Verification1	Sb (217.582 nm)	4.9350	0.11	11773.9187
	Continuing Calibration Verification1	Se (196.026 nm)	0.4855	0.23	316.3111
	Continuing Calibration Verification1	Si (252.851 nm)	9.8942 Q	1.24	65971.3331 Q
	Continuing Calibration Verification1	Sn (189.925 nm)	5.1239	0.09	13708.7240
	Continuing Calibration Verification1	Sr (216.596 nm)	2.5290	0.31	49211.9633
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5999	0.06	412406.0422
	Continuing Calibration Verification1	Tl (190.794 nm)	1.0116	0.17	936.4668
	Continuing Calibration Verification1	V (292.401 nm)	2.5538	0.06	98161.4395
	Continuing Calibration Verification1	Y (360.074 nm)	0.96	0.55	610384.26
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.96	0.56	614139.57
	Continuing Calibration Verification1	Zn (213.857 nm)	1.0035	0.28	60831.9485
9/4/2024 20:41:24	Continuing Calibration Blank1	Ag (328.068 nm)	0.0000 u	> 100.00	13.5100
	Continuing Calibration Blank1	Al (237.312 nm)	0.0001 u	> 100.00	-11.6332
	Continuing Calibration Blank1	As (188.980 nm)	0.0004	64.77	-2.0129
	Continuing Calibration Blank1	B (249.772 nm)	0.0002 u	> 100.00	121.8337

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0001	18.59	18.9353
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000	> 100.00	-10.0336
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0005	16.73	3280.5528
	Continuing Calibration Blank1	Cd (214.439 nm)	-0.0001 u	62.97	5.3512
	Continuing Calibration Blank1	Co (230.786 nm)	-0.0002 u	15.95	-0.7475
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0001	> 100.00	8.5851
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0000 u	> 100.00	0.9678
	Continuing Calibration Blank1	Fe (234.350 nm)	-0.0052 u	22.75	183.3594
	Continuing Calibration Blank1	K (766.491 nm)	0.0296	64.54	764.8842
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0002 u	> 100.00	4.4186
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0000 u	> 100.00	28.3554
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0062	11.75	74.1359
	Continuing Calibration Blank1	Na (588.995 nm)	0.0657	3.76	-13188.5686
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0001 u	> 100.00	2.6500
	Continuing Calibration Blank1	Pb (220.353 nm)	-0.0001 u	> 100.00	2.5064
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0125	13.69	29.2375
	Continuing Calibration Blank1	Se (196.026 nm)	-0.0084 u	51.38	-0.8664
	Continuing Calibration Blank1	Si (252.851 nm)	0.0007 u	> 100.00	133.8714
	Continuing Calibration Blank1	Sn (189.925 nm)	-0.0004 u	> 100.00	6.3637
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0000 u	> 100.00	5.6257
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0065	27.12	1128.0240
	Continuing Calibration Blank1	Tl (190.794 nm)	0.0014 u	> 100.00	-1.5218
	Continuing Calibration Blank1	V (292.401 nm)	0.0000 u	> 100.00	9.3852
	Continuing Calibration Blank1	Y (360.074 nm)	1.01	0.52	636410.66
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.01	0.52	640740.73
	Continuing Calibration Blank1	Zn (213.857 nm)	-0.0001 u	23.62	16.0112
9/4/2024 20:44:39	R2408139-007	Ag (328.068 nm)	0.0002	77.74	27.5552
	R2408139-007	Al (237.312 nm)	-0.0106 u	26.79	-40.2559
	R2408139-007	As (188.980 nm)	0.0101	29.24	15.1837
	R2408139-007	B (249.772 nm)	0.2140	0.06	9421.5781
	R2408139-007	Ba (230.424 nm)	0.1253	0.06	7643.6718
	R2408139-007	Be (313.107 nm)	0.0000 u	> 100.00	-11.2193
	R2408139-007	Ca (317.933 nm)	136.6681 o	0.26	5301769.1253
	R2408139-007	Cd (214.439 nm)	0.0000	49.65	13.6415
	R2408139-007	Co (230.786 nm)	0.0002	42.23	8.2898
	R2408139-007	Cr (267.716 nm)	0.0051	1.22	308.2200
	R2408139-007	Cu (327.395 nm)	0.0006	40.52	28.1855
	R2408139-007	Fe (234.350 nm)	6.0151	0.13	137555.7972
	R2408139-007	K (766.491 nm)	1.8152	1.68	3117.3958
	R2408139-007	Mg (279.078 nm)	22.3377	0.20	95044.8425
	R2408139-007	Mn (257.610 nm)	3.2844 o	0.15	1167533.0880
	R2408139-007	Mo (202.032 nm)	0.0017	45.83	26.9783
	R2408139-007	Na (588.995 nm)	49.6115	0.30	806128.3686
	R2408139-007	Ni (230.299 nm)	0.0230	0.72	296.4266
	R2408139-007	Pb (220.353 nm)	0.0005	61.66	5.7275
	R2408139-007	Sb (217.582 nm)	0.0116	13.50	26.9211
	R2408139-007	Se (196.026 nm)	-0.0012 u	> 100.00	3.7491
	R2408139-007	Si (252.851 nm)	6.2758	0.05	41891.8120
	R2408139-007	Sn (189.925 nm)	-0.0003 u	> 100.00	6.4960
	R2408139-007	Sr (216.596 nm)	0.1603	0.06	3125.2529
	R2408139-007	Ti (336.122 nm)	0.0024	32.86	466.7409
	R2408139-007	Tl (190.794 nm)	0.0019	73.24	-1.0945
	R2408139-007	V (292.401 nm)	0.0008	6.52	40.9976
	R2408139-007	Y (360.074 nm)	0.95	0.52	604217.31
	R2408139-007	Y_R (360.074 nm)	0.95	0.51	608068.15
	R2408139-007	Zn (213.857 nm)	0.0030	2.07	201.6882
9/4/2024 20:47:53	R2408139-008	Ag (328.068 nm)	0.0001 u	> 100.00	18.0732

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408139-008	Al (237.312 nm)	0.0111	15.89	17.6849
	R2408139-008	As (188.980 nm)	0.0003 u	> 100.00	-2.0543
	R2408139-008	B (249.772 nm)	0.0987	0.26	4406.8025
	R2408139-008	Ba (230.424 nm)	0.0883	0.31	5387.6591
	R2408139-008	Be (313.107 nm)	0.0000 u	> 100.00	-12.2347
	R2408139-008	Ca (317.933 nm)	109.0198 o	0.23	4229867.5785
	R2408139-008	Cd (214.439 nm)	0.0000 u	> 100.00	11.8857
	R2408139-008	Co (230.786 nm)	0.0001 u	> 100.00	4.8739
	R2408139-008	Cr (267.716 nm)	0.0007	5.91	44.0395
	R2408139-008	Cu (327.395 nm)	0.0008	24.40	38.9444
	R2408139-008	Fe (234.350 nm)	0.0153	10.96	649.4570
	R2408139-008	K (766.491 nm)	1.4855	1.32	2683.0349
	R2408139-008	Mg (279.078 nm)	24.3829	0.25	103746.5569
	R2408139-008	Mn (257.610 nm)	0.1588	0.13	56461.7110
	R2408139-008	Mo (202.032 nm)	0.0009	13.24	17.7541
	R2408139-008	Na (588.995 nm)	17.1651	0.39	269576.7460
	R2408139-008	Ni (230.299 nm)	0.0187	2.50	240.9461
	R2408139-008	Pb (220.353 nm)	-0.0007 u	90.46	-0.4919
	R2408139-008	Sb (217.582 nm)	0.0049	26.93	11.0872
	R2408139-008	Se (196.026 nm)	-0.0042 u	64.05	1.8342
	R2408139-008	Si (252.851 nm)	5.3286	0.11	35588.6296
	R2408139-008	Sn (189.925 nm)	-0.0007 u	> 100.00	5.3865
	R2408139-008	Sr (216.596 nm)	0.1538	0.21	2999.8685
	R2408139-008	Ti (336.122 nm)	0.0009	45.31	240.2171
	R2408139-008	Tl (190.794 nm)	0.0029 u	> 100.00	-0.1457
	R2408139-008	V (292.401 nm)	0.0004	18.62	26.1661
	R2408139-008	Y (360.074 nm)	0.96	0.32	610755.24
	R2408139-008	Y_R (360.074 nm)	0.96	0.32	614570.47
	R2408139-008	Zn (213.857 nm)	0.0039	1.51	253.7935
9/4/2024 20:51:07	R2408139-008S	Ag (328.068 nm)	0.0504	1.96	3176.4820
	R2408139-008S	Al (237.312 nm)	1.9962	1.82	5317.3522
	R2408139-008S	As (188.980 nm)	0.0398	4.66	67.6080
	R2408139-008S	B (249.772 nm)	1.0567	2.06	46087.5294
	R2408139-008S	Ba (230.424 nm)	2.0457	2.18	124635.4202
	R2408139-008S	Be (313.107 nm)	0.0503	2.12	61792.0537
	R2408139-008S	Ca (317.933 nm)	111.3719 o	2.29	4321056.7136
	R2408139-008S	Cd (214.439 nm)	0.0495	2.12	3135.3160
	R2408139-008S	Co (230.786 nm)	0.4845	2.14	10246.6328
	R2408139-008S	Cr (267.716 nm)	0.2099	2.17	12647.1197
	R2408139-008S	Cu (327.395 nm)	0.2483	1.85	12026.5385
	R2408139-008S	Fe (234.350 nm)	1.0733	2.18	24792.5983
	R2408139-008S	K (766.491 nm)	21.7597	1.80	29393.9136
	R2408139-008S	Mg (279.078 nm)	26.5199	2.21	112838.7950
	R2408139-008S	Mn (257.610 nm)	0.6466	2.12	229873.8427
	R2408139-008S	Mo (202.032 nm)	0.4981	2.96	5321.1991
	R2408139-008S	Na (588.995 nm)	36.6272	1.71	591414.2997
	R2408139-008S	Ni (230.299 nm)	0.4953	1.90	6362.2062
	R2408139-008S	Pb (220.353 nm)	0.5120	2.22	2553.7788
	R2408139-008S	Sb (217.582 nm)	0.5020	1.41	1197.0359
	R2408139-008S	Se (196.026 nm)	1.0107	1.89	653.6212
	R2408139-008S	Si (252.851 nm)	5.7350	2.04	38293.1289
	R2408139-008S	Sn (189.925 nm)	5.0705	2.14	13565.8268
	R2408139-008S	Sr (216.596 nm)	2.1272	2.50	41394.4211
	R2408139-008S	Ti (336.122 nm)	0.5039	2.04	80004.8403
	R2408139-008S	Tl (190.794 nm)	1.9684	2.01	1824.9855
	R2408139-008S	V (292.401 nm)	0.5017	2.01	19292.0988
	R2408139-008S	Y (360.074 nm)	0.95	1.56	598890.16

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408139-008S	Y_R (360.074 nm)	0.95	1.55	602582.49
	R2408139-008S	Zn (213.857 nm)	0.5030	2.10	30502.2881
9/4/2024 20:54:21	R2408139-008SD	Ag (328.068 nm)	0.0492	0.20	3102.2497
	R2408139-008SD	Al (237.312 nm)	1.9478	0.23	5188.3048
	R2408139-008SD	As (188.980 nm)	0.0378	3.27	64.0573
	R2408139-008SD	B (249.772 nm)	1.0310	0.11	44968.3098
	R2408139-008SD	Ba (230.424 nm)	1.9943	0.09	121506.0233
	R2408139-008SD	Be (313.107 nm)	0.0490	0.09	60235.3060
	R2408139-008SD	Ca (317.933 nm)	109.4705 o	0.18	4247339.4935
	R2408139-008SD	Cd (214.439 nm)	0.0483	0.22	3058.1305
	R2408139-008SD	Co (230.786 nm)	0.4718	0.18	9979.4346
	R2408139-008SD	Cr (267.716 nm)	0.1966	0.16	11847.4586
	R2408139-008SD	Cu (327.395 nm)	0.2416	0.07	11700.4817
	R2408139-008SD	Fe (234.350 nm)	0.9906	0.23	22905.6361
	R2408139-008SD	K (766.491 nm)	21.2202	0.23	28683.1857
	R2408139-008SD	Mg (279.078 nm)	26.0705	0.18	110926.7695
	R2408139-008SD	Mn (257.610 nm)	0.6308	0.12	224244.7571
	R2408139-008SD	Mo (202.032 nm)	0.4936	0.82	5273.5610
	R2408139-008SD	Na (588.995 nm)	35.8234	0.31	578121.2984
	R2408139-008SD	Ni (230.299 nm)	0.4828	0.13	6201.3429
	R2408139-008SD	Pb (220.353 nm)	0.4992	0.33	2489.8513
	R2408139-008SD	Sb (217.582 nm)	0.4975	0.49	1186.2629
	R2408139-008SD	Se (196.026 nm)	0.9858	0.68	637.6383
	R2408139-008SD	Si (252.851 nm)	5.6366	0.02	37638.6049
	R2408139-008SD	Sn (189.925 nm)	4.9554	0.21	13258.1548
	R2408139-008SD	Sr (216.596 nm)	2.0788	0.30	40452.9648
	R2408139-008SD	Ti (336.122 nm)	0.4966	0.06	78848.0836
	R2408139-008SD	Tl (190.794 nm)	1.9244	0.15	1784.0703
	R2408139-008SD	V (292.401 nm)	0.4886	0.05	18787.6043
	R2408139-008SD	Y (360.074 nm)	0.96	0.36	604517.85
	R2408139-008SD	Y_R (360.074 nm)	0.95	0.36	608320.32
	R2408139-008SD	Zn (213.857 nm)	0.4908	0.08	29760.4283
9/4/2024 20:57:35	R2408139-008A	Ag (328.068 nm)	0.0480	0.34	3027.8759
	R2408139-008A	Al (237.312 nm)	1.9185	0.16	5110.0946
	R2408139-008A	As (188.980 nm)	0.0372	1.76	62.9482
	R2408139-008A	B (249.772 nm)	1.0155	0.06	44293.8320
	R2408139-008A	Ba (230.424 nm)	1.9576	0.34	119266.7433
	R2408139-008A	Be (313.107 nm)	0.0481	0.05	59115.0693
	R2408139-008A	Ca (317.933 nm)	107.6374 o	0.17	4176271.1805
	R2408139-008A	Cd (214.439 nm)	0.0474	0.29	3001.4622
	R2408139-008A	Co (230.786 nm)	0.4638	0.04	9809.3057
	R2408139-008A	Cr (267.716 nm)	0.1931	0.21	11633.3080
	R2408139-008A	Cu (327.395 nm)	0.2373	0.18	11491.2139
	R2408139-008A	Fe (234.350 nm)	0.9795	0.12	22651.9263
	R2408139-008A	K (766.491 nm)	20.8514	0.20	28197.2378
	R2408139-008A	Mg (279.078 nm)	25.5913	0.17	108888.0815
	R2408139-008A	Mn (257.610 nm)	0.6191	0.10	220116.1470
	R2408139-008A	Mo (202.032 nm)	0.4834	0.75	5164.6402
	R2408139-008A	Na (588.995 nm)	35.1812	0.29	567501.6594
	R2408139-008A	Ni (230.299 nm)	0.4738	0.26	6086.3276
	R2408139-008A	Pb (220.353 nm)	0.4899	0.24	2443.4202
	R2408139-008A	Sb (217.582 nm)	0.4850	0.60	1156.4929
	R2408139-008A	Se (196.026 nm)	0.9695	0.38	627.1614
	R2408139-008A	Si (252.851 nm)	5.5295	0.05	36926.1103
	R2408139-008A	Sn (189.925 nm)	4.8378	0.24	12943.5387
	R2408139-008A	Sr (216.596 nm)	2.0367	0.36	39634.5281
	R2408139-008A	Ti (336.122 nm)	0.4860	0.06	77158.0780

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408139-008A	Tl (190.794 nm)	1.8817	0.19	1744.4163
	R2408139-008A	V (292.401 nm)	0.4795	0.08	18440.5982
	R2408139-008A	Y (360.074 nm)	0.96	0.36	606082.30
	R2408139-008A	Y_R (360.074 nm)	0.96	0.35	609701.81
	R2408139-008A	Zn (213.857 nm)	0.4840	0.05	29348.9013
9/4/2024 21:00:49	R2408139-008L 5X	Ag (328.068 nm)	0.0001 u	> 100.00	16.6901
	R2408139-008L 5X	Al (237.312 nm)	0.0024	62.29	-5.4597
	R2408139-008L 5X	As (188.980 nm)	0.0008 u	> 100.00	-1.2401
	R2408139-008L 5X	B (249.772 nm)	0.0197	1.66	967.8506
	R2408139-008L 5X	Ba (230.424 nm)	0.0180	0.26	1105.2275
	R2408139-008L 5X	Be (313.107 nm)	0.0000 u	> 100.00	-19.9328
	R2408139-008L 5X	Ca (317.933 nm)	22.3884	0.02	871238.6997
	R2408139-008L 5X	Cd (214.439 nm)	0.0000 u	> 100.00	9.5309
	R2408139-008L 5X	Co (230.786 nm)	-0.0002 u	60.67	-0.2024
	R2408139-008L 5X	Cr (267.716 nm)	0.0001	87.30	11.4550
	R2408139-008L 5X	Cu (327.395 nm)	0.0001	59.89	5.3870
	R2408139-008L 5X	Fe (234.350 nm)	-0.0049 u	16.81	188.2958
	R2408139-008L 5X	K (766.491 nm)	0.3281	3.10	1158.1666
	R2408139-008L 5X	Mg (279.078 nm)	4.9842	0.03	21209.9986
	R2408139-008L 5X	Mn (257.610 nm)	0.0324	0.16	11554.0448
	R2408139-008L 5X	Mo (202.032 nm)	0.0044	20.40	55.4371
	R2408139-008L 5X	Na (588.995 nm)	3.3758	0.44	41549.8330
	R2408139-008L 5X	Ni (230.299 nm)	0.0030	5.25	40.3524
	R2408139-008L 5X	Pb (220.353 nm)	-0.0013 u	74.59	-3.3662
	R2408139-008L 5X	Sb (217.582 nm)	0.0082	40.14	18.8358
	R2408139-008L 5X	Se (196.026 nm)	0.0016	> 100.00	5.5313
	R2408139-008L 5X	Si (252.851 nm)	1.0628	0.35	7202.0011
	R2408139-008L 5X	Sn (189.925 nm)	0.0021	36.83	13.1353
	R2408139-008L 5X	Sr (216.596 nm)	0.0309	0.44	607.3571
	R2408139-008L 5X	Ti (336.122 nm)	0.0020	37.23	410.2037
	R2408139-008L 5X	Tl (190.794 nm)	0.0024	47.44	-0.6205
	R2408139-008L 5X	V (292.401 nm)	0.0003	87.58	21.8330
	R2408139-008L 5X	Y (360.074 nm)	1.00	0.38	633695.73
	R2408139-008L 5X	Y_R (360.074 nm)	1.00	0.38	637129.36
	R2408139-008L 5X	Zn (213.857 nm)	0.0004	14.46	46.0859
9/4/2024 21:04:03	R2408139-010	Ag (328.068 nm)	0.0023	10.19	156.3850
	R2408139-010	Al (237.312 nm)	-0.1693 u	0.86	-463.9667
	R2408139-010	As (188.980 nm)	0.0340	3.63	57.3822
	R2408139-010	B (249.772 nm)	0.0695	0.42	3136.7934
	R2408139-010	Ba (230.424 nm)	0.3400	0.03	20724.4601
	R2408139-010	Be (313.107 nm)	0.0000	90.28	-3.9925
	R2408139-010	Ca (317.933 nm)	44.0395	0.22	1710634.6793
	R2408139-010	Cd (214.439 nm)	0.0015	0.31	104.0118
	R2408139-010	Co (230.786 nm)	0.0365	1.21	774.7168
	R2408139-010	Cr (267.716 nm)	0.0036	1.60	222.5454
	R2408139-010	Cu (327.395 nm)	0.0002	38.55	13.1042
	R2408139-010	Fe (234.350 nm)	75.5619 o	0.24	1724490.7621
	R2408139-010	K (766.491 nm)	0.4121	4.00	1268.8165
	R2408139-010	Mg (279.078 nm)	9.5423	0.22	40603.6290
	R2408139-010	Mn (257.610 nm)	33.4078 o	0.26	11875401.0600
	R2408139-010	Mo (202.032 nm)	0.0044	7.67	54.9669
	R2408139-010	Na (588.995 nm)	1.6478	0.75	12974.2194
	R2408139-010	Ni (230.299 nm)	0.0166	1.15	214.0982
	R2408139-010	Pb (220.353 nm)	0.0050	7.32	28.3933
	R2408139-010	Sb (217.582 nm)	0.0016	18.72	3.1860
	R2408139-010	Se (196.026 nm)	0.0223	2.56	18.8364
	R2408139-010	Si (252.851 nm)	3.8739	0.02	25908.7006

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408139-010	Sn (189.925 nm)	0.0015	9.16	11.3210
	R2408139-010	Sr (216.596 nm)	0.1178	0.30	2298.3034
	R2408139-010	Ti (336.122 nm)	0.0013	33.57	290.9216
	R2408139-010	Tl (190.794 nm)	0.0138	5.06	9.9309
	R2408139-010	V (292.401 nm)	0.0002	10.06	20.5606
	R2408139-010	Y (360.074 nm)	0.99	0.48	623543.10
	R2408139-010	Y_R (360.074 nm)	0.98	0.48	626992.30
	R2408139-010	Zn (213.857 nm)	0.0155	0.67	957.9807
9/4/2024 21:07:16	R2408139-012	Ag (328.068 nm)	0.0017	8.29	117.1412
	R2408139-012	Al (237.312 nm)	0.1166	1.22	299.2446
	R2408139-012	As (188.980 nm)	0.0588	3.33	101.0266
	R2408139-012	B (249.772 nm)	0.1908	0.19	8414.1069
	R2408139-012	Ba (230.424 nm)	0.1137	0.20	6933.9691
	R2408139-012	Be (313.107 nm)	0.0000	52.67	-6.2900
	R2408139-012	Ca (317.933 nm)	196.5823 o	0.09	7624594.3556
	R2408139-012	Cd (214.439 nm)	0.0019	3.50	130.7067
	R2408139-012	Co (230.786 nm)	0.0006	10.05	16.1601
	R2408139-012	Cr (267.716 nm)	0.0022	5.74	137.3615
	R2408139-012	Cu (327.395 nm)	0.0000 u	> 100.00	0.7224
	R2408139-012	Fe (234.350 nm)	92.9804 o	0.08	2121950.3733
	R2408139-012	K (766.491 nm)	1.7104	1.25	2979.3103
	R2408139-012	Mg (279.078 nm)	36.6901	0.03	156110.3695
	R2408139-012	Mn (257.610 nm)	24.1331 o	0.06	8578563.5520
	R2408139-012	Mo (202.032 nm)	-0.0001 u	> 100.00	7.2571
	R2408139-012	Na (588.995 nm)	37.2807	0.55	602220.4304
	R2408139-012	Ni (230.299 nm)	0.0285	1.78	367.2866
	R2408139-012	Pb (220.353 nm)	0.0032	51.78	19.2784
	R2408139-012	Sb (217.582 nm)	0.0018	35.59	3.5815
	R2408139-012	Se (196.026 nm)	0.0110	13.67	11.5813
	R2408139-012	Si (252.851 nm)	7.9904	0.17	53301.8192
	R2408139-012	Sn (189.925 nm)	0.0011	33.28	10.3425
	R2408139-012	Sr (216.596 nm)	0.3290	0.15	6408.4733
	R2408139-012	Ti (336.122 nm)	0.0029	9.01	542.7426
	R2408139-012	Tl (190.794 nm)	0.0108	6.27	7.1988
	R2408139-012	V (292.401 nm)	0.0014	6.91	64.9389
	R2408139-012	Y (360.074 nm)	0.94	0.63	594709.30
	R2408139-012	Y_R (360.074 nm)	0.94	0.63	598079.23
	R2408139-012	Zn (213.857 nm)	0.0129	0.49	799.5296
9/4/2024 21:10:30	Continuing Calibration Verification1	Ag (328.068 nm)	0.5089	0.02	31971.4454
	Continuing Calibration Verification1	Al (237.312 nm)	9.7996	0.17	26151.0321
	Continuing Calibration Verification1	As (188.980 nm)	0.9811	0.18	1728.4885
	Continuing Calibration Verification1	B (249.772 nm)	2.2980	0.11	100094.6628
	Continuing Calibration Verification1	Ba (230.424 nm)	9.8722	0.76	601431.2179
	Continuing Calibration Verification1	Be (313.107 nm)	0.2488	0.18	306046.3127
	Continuing Calibration Verification1	Ca (317.933 nm)	25.7863	0.25	1002974.8369
	Continuing Calibration Verification1	Cd (214.439 nm)	0.5035	0.37	31787.7063
	Continuing Calibration Verification1	Co (230.786 nm)	2.5015	0.28	52892.6480
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5170	0.18	31146.3477
	Continuing Calibration Verification1	Cu (327.395 nm)	1.2270	0.20	59423.1264
	Continuing Calibration Verification1	Fe (234.350 nm)	5.0663	0.18	115904.7430
	Continuing Calibration Verification1	K (766.491 nm)	24.3544	0.27	32812.4475
	Continuing Calibration Verification1	Mg (279.078 nm)	25.7406	0.28	109523.2777
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7453	0.16	264964.6611
	Continuing Calibration Verification1	Mo (202.032 nm)	2.5790	0.30	27516.3868
	Continuing Calibration Verification1	Na (588.995 nm)	24.6239	0.33	392920.2880
	Continuing Calibration Verification1	Ni (230.299 nm)	2.0292	0.22	26062.4952
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5118	0.47	2552.5494

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification1	Sb (217.582 nm)	4.9234	0.13	11746.3444
	Continuing Calibration Verification1	Se (196.026 nm)	0.4851	0.83	316.0914
	Continuing Calibration Verification1	Si (252.851 nm)	9.8944 Q	1.33	65972.5520 Q
	Continuing Calibration Verification1	Sn (189.925 nm)	5.1262	0.22	13714.9022
	Continuing Calibration Verification1	Sr (216.596 nm)	2.5153	0.14	48946.1791
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5993	0.13	412309.2216
	Continuing Calibration Verification1	Tl (190.794 nm)	1.0108	0.58	935.7786
	Continuing Calibration Verification1	V (292.401 nm)	2.5524	0.19	98105.2217
	Continuing Calibration Verification1	Y (360.074 nm)	0.96	0.52	610258.36
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.96	0.52	613770.56
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9996	0.10	60596.5127
9/4/2024 21:13:44	Continuing Calibration Blank1	Ag (328.068 nm)	0.0001	> 100.00	17.0004
	Continuing Calibration Blank1	Al (237.312 nm)	0.0004	47.06	-10.9817
	Continuing Calibration Blank1	As (188.980 nm)	0.0014 u	> 100.00	-0.1951
	Continuing Calibration Blank1	B (249.772 nm)	0.0002	97.85	122.4987
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0003	21.82	25.9589
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000 u	> 100.00	-10.3000
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0023	5.80	3348.6554
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000 u	> 100.00	10.4435
	Continuing Calibration Blank1	Co (230.786 nm)	0.0000 u	> 100.00	4.3351
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0000 u	> 100.00	4.2927
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0001	> 100.00	4.8187
	Continuing Calibration Blank1	Fe (234.350 nm)	-0.0039 u	39.85	212.7553
	Continuing Calibration Blank1	K (766.491 nm)	0.0236	63.49	757.0093
	Continuing Calibration Blank1	Mg (279.078 nm)	-0.0010 u	34.14	-0.3152
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0000 u	> 100.00	33.9118
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0061	11.72	73.3798
	Continuing Calibration Blank1	Na (588.995 nm)	0.0331	23.46	-13727.1815
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0001 u	> 100.00	2.0825
	Continuing Calibration Blank1	Pb (220.353 nm)	-0.0001 u	> 100.00	2.9366
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0113	11.43	26.2631
	Continuing Calibration Blank1	Se (196.026 nm)	-0.0064 u	49.82	0.4477
	Continuing Calibration Blank1	Si (252.851 nm)	0.0014 u	> 100.00	138.7537
	Continuing Calibration Blank1	Sn (189.925 nm)	-0.0001 u	> 100.00	7.0124
	Continuing Calibration Blank1	Sr (216.596 nm)	-0.0001 u	> 100.00	4.3431
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0063	27.66	1082.5883
	Continuing Calibration Blank1	Tl (190.794 nm)	0.0026	32.57	-0.4745
	Continuing Calibration Blank1	V (292.401 nm)	0.0001	39.89	16.6905
	Continuing Calibration Blank1	Y (360.074 nm)	1.01	0.20	639203.85
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.01	0.21	643034.74
	Continuing Calibration Blank1	Zn (213.857 nm)	-0.0001 u	94.26	14.0912
9/4/2024 21:16:58	R2408139-013	Ag (328.068 nm)	0.0000 u	72.67	9.5962
	R2408139-013	Al (237.312 nm)	0.0025	17.73	-5.3882
	R2408139-013	As (188.980 nm)	-0.0010 u	96.90	-4.3882
	R2408139-013	B (249.772 nm)	0.0006	10.35	140.6229
	R2408139-013	Ba (230.424 nm)	0.0002	6.57	24.8185
	R2408139-013	Be (313.107 nm)	0.0000 u	> 100.00	-16.5457
	R2408139-013	Ca (317.933 nm)	0.0148	1.35	3834.8436
	R2408139-013	Cd (214.439 nm)	0.0000 u	> 100.00	10.9238
	R2408139-013	Co (230.786 nm)	0.0000 u	> 100.00	4.0364
	R2408139-013	Cr (267.716 nm)	0.0004	24.40	28.2660
	R2408139-013	Cu (327.395 nm)	0.0000 u	> 100.00	1.8300
	R2408139-013	Fe (234.350 nm)	-0.0016 u	60.16	264.0994
	R2408139-013	K (766.491 nm)	0.0443	17.01	784.2278
	R2408139-013	Mg (279.078 nm)	0.0002 u	> 100.00	4.4254
	R2408139-013	Mn (257.610 nm)	0.0001	11.86	60.2444
	R2408139-013	Mo (202.032 nm)	0.0015	15.66	24.0536

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408139-013	Na (588.995 nm)	0.0444	10.32	-13539.4162
	R2408139-013	Ni (230.299 nm)	0.0000 u	> 100.00	1.2309
	R2408139-013	Pb (220.353 nm)	-0.0004 u	> 100.00	1.3869
	R2408139-013	Sb (217.582 nm)	0.0102	6.92	23.6429
	R2408139-013	Se (196.026 nm)	0.0004 u	> 100.00	4.7629
	R2408139-013	Si (252.851 nm)	0.0091	46.25	189.7222
	R2408139-013	Sn (189.925 nm)	0.0003 u	> 100.00	8.1685
	R2408139-013	Sr (216.596 nm)	-0.0001 u	> 100.00	4.1902
	R2408139-013	Ti (336.122 nm)	0.0025	35.16	491.8629
	R2408139-013	Tl (190.794 nm)	0.0011 u	> 100.00	-1.8405
	R2408139-013	V (292.401 nm)	-0.0001 u	97.56	5.2655
	R2408139-013	Y (360.074 nm)	1.02	0.45	644836.52
	R2408139-013	Y_R (360.074 nm)	1.02	0.46	649198.88
	R2408139-013	Zn (213.857 nm)	0.0015	4.79	111.8265
9/4/2024 21:20:11	R2408364-001	Ag (328.068 nm)	0.0002	46.57	21.9928
	R2408364-001	Al (237.312 nm)	0.1725	2.37	448.5812
	R2408364-001	As (188.980 nm)	0.0005 u	> 100.00	-1.7198
	R2408364-001	B (249.772 nm)	0.2838	1.74	12460.7480
	R2408364-001	Ba (230.424 nm)	0.1770	1.75	10794.6872
	R2408364-001	Be (313.107 nm)	0.0000	6.38	0.2588
	R2408364-001	Ca (317.933 nm)	147.4961 o	1.71	5721560.0754
	R2408364-001	Cd (214.439 nm)	0.0000	99.47	14.0421
	R2408364-001	Co (230.786 nm)	0.0000 u	> 100.00	3.8111
	R2408364-001	Cr (267.716 nm)	0.0010	13.08	62.4522
	R2408364-001	Cu (327.395 nm)	0.0001 u	> 100.00	6.7549
	R2408364-001	Fe (234.350 nm)	0.1641	1.54	4044.8348
	R2408364-001	K (766.491 nm)	2.9677	2.24	4635.7150
	R2408364-001	Mg (279.078 nm)	66.5352 o	1.74	283093.3055
	R2408364-001	Mn (257.610 nm)	0.0448	1.79	15967.7180
	R2408364-001	Mo (202.032 nm)	0.0007	27.29	16.0095
	R2408364-001	Na (588.995 nm)	19.7089	1.93	311643.8255
	R2408364-001	Ni (230.299 nm)	0.0250	0.81	322.8210
	R2408364-001	Pb (220.353 nm)	0.0004 u	> 100.00	5.0062
	R2408364-001	Sb (217.582 nm)	0.0052	32.30	11.6421
	R2408364-001	Se (196.026 nm)	-0.0064 u	24.28	0.4396
	R2408364-001	Si (252.851 nm)	7.0863	1.95	47285.9332
	R2408364-001	Sn (189.925 nm)	-0.0004 u	> 100.00	6.4061
	R2408364-001	Sr (216.596 nm)	8.1379 o	1.84	158343.9379
	R2408364-001	Ti (336.122 nm)	0.0035	18.92	645.0032
	R2408364-001	Tl (190.794 nm)	0.0031	20.05	0.0148
	R2408364-001	V (292.401 nm)	0.0006	34.83	35.3041
	R2408364-001	Y (360.074 nm)	0.94	2.08	596073.27
	R2408364-001	Y_R (360.074 nm)	0.94	2.08	599920.18
	R2408364-001	Zn (213.857 nm)	0.0034	2.38	228.6400
9/4/2024 21:23:25	R2408364-002	Ag (328.068 nm)	0.0000 u	> 100.00	14.3757
	R2408364-002	Al (237.312 nm)	0.2566	0.59	673.0290
	R2408364-002	As (188.980 nm)	0.0000 u	> 100.00	-2.7217
	R2408364-002	B (249.772 nm)	0.2937	0.13	12889.3610
	R2408364-002	Ba (230.424 nm)	0.0464	0.47	2839.4393
	R2408364-002	Be (313.107 nm)	0.0000	5.13	-4.9488
	R2408364-002	Ca (317.933 nm)	210.9092 o	0.23	8180036.2281
	R2408364-002	Cd (214.439 nm)	0.0001	19.50	18.0444
	R2408364-002	Co (230.786 nm)	-0.0001 u	> 100.00	2.3134
	R2408364-002	Cr (267.716 nm)	0.0008	3.46	54.0648
	R2408364-002	Cu (327.395 nm)	0.0001	29.61	4.0891
	R2408364-002	Fe (234.350 nm)	0.2463	0.25	5920.0076
	R2408364-002	K (766.491 nm)	2.7856	1.14	4395.8683

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408364-002	Mg (279.078 nm)	91.2330 o	0.21	388176.1539
	R2408364-002	Mn (257.610 nm)	0.0349	0.09	12426.7699
	R2408364-002	Mo (202.032 nm)	0.0001 u	> 100.00	9.6658
	R2408364-002	Na (588.995 nm)	26.3739	0.35	421859.2656
	R2408364-002	Ni (230.299 nm)	0.0247	0.65	317.8012
	R2408364-002	Pb (220.353 nm)	0.0006 u	> 100.00	6.0282
	R2408364-002	Sb (217.582 nm)	0.0041	17.14	9.2163
	R2408364-002	Se (196.026 nm)	-0.0048 u	50.78	1.4350
	R2408364-002	Si (252.851 nm)	7.8348	0.07	52266.9378
	R2408364-002	Sn (189.925 nm)	-0.0002 u	> 100.00	6.7814
	R2408364-002	Sr (216.596 nm)	4.1460	0.06	80674.8527
	R2408364-002	Ti (336.122 nm)	0.0076	10.38	1292.7163
	R2408364-002	Tl (190.794 nm)	0.0036	62.72	0.4450
	R2408364-002	V (292.401 nm)	0.0009	11.55	45.2237
	R2408364-002	Y (360.074 nm)	0.94	0.40	594106.25
	R2408364-002	Y_R (360.074 nm)	0.94	0.40	597795.83
	R2408364-002	Zn (213.857 nm)	0.0022	3.30	153.3885
9/4/2024 21:26:40	R2408364-003	Ag (328.068 nm)	0.0002	63.19	25.1665
	R2408364-003	Al (237.312 nm)	0.0266	2.47	58.9237
	R2408364-003	As (188.980 nm)	0.0005 u	> 100.00	-1.7040
	R2408364-003	B (249.772 nm)	0.8799	0.14	38393.9353
	R2408364-003	Ba (230.424 nm)	0.1300	0.14	7928.6695
	R2408364-003	Be (313.107 nm)	0.0000	41.48	-10.4374
	R2408364-003	Ca (317.933 nm)	160.8232 o	0.24	6238243.4875
	R2408364-003	Cd (214.439 nm)	0.0000	83.65	14.3329
	R2408364-003	Co (230.786 nm)	0.0029	5.34	64.4671
	R2408364-003	Cr (267.716 nm)	0.0006	15.20	36.6919
	R2408364-003	Cu (327.395 nm)	0.0000 u	> 100.00	2.1738
	R2408364-003	Fe (234.350 nm)	0.6836	0.13	15900.3516
	R2408364-003	K (766.491 nm)	2.0018	1.11	3363.2015
	R2408364-003	Mg (279.078 nm)	47.7831	0.19	203308.3193
	R2408364-003	Mn (257.610 nm)	1.4395	0.15	511709.7469
	R2408364-003	Mo (202.032 nm)	0.0014	16.13	23.0380
	R2408364-003	Na (588.995 nm)	83.4872 o	0.44	1366315.9714
	R2408364-003	Ni (230.299 nm)	0.0222	0.44	285.9522
	R2408364-003	Pb (220.353 nm)	-0.0003 u	> 100.00	1.6276
	R2408364-003	Sb (217.582 nm)	0.0044	34.49	9.8337
	R2408364-003	Se (196.026 nm)	-0.0024 u	> 100.00	2.9742
	R2408364-003	Si (252.851 nm)	4.3258	0.15	28915.7024
	R2408364-003	Sn (189.925 nm)	0.0001 u	> 100.00	7.5852
	R2408364-003	Sr (216.596 nm)	2.5177	0.33	48992.6566
	R2408364-003	Ti (336.122 nm)	0.0006	47.75	177.1031
	R2408364-003	Tl (190.794 nm)	0.0021	38.35	-0.8792
	R2408364-003	V (292.401 nm)	0.0005	25.00	31.5637
	R2408364-003	Y (360.074 nm)	0.94	0.35	595944.24
	R2408364-003	Y_R (360.074 nm)	0.94	0.35	599607.16
	R2408364-003	Zn (213.857 nm)	0.0046	1.97	299.7630
9/4/2024 21:29:53	R2408364-004	Ag (328.068 nm)	0.0001	61.15	15.7379
	R2408364-004	Al (237.312 nm)	0.3084	0.42	811.4116
	R2408364-004	As (188.980 nm)	0.0001 u	> 100.00	-2.5168
	R2408364-004	B (249.772 nm)	0.0581	0.29	2639.8698
	R2408364-004	Ba (230.424 nm)	0.0558	0.27	3412.1492
	R2408364-004	Be (313.107 nm)	0.0000	73.23	-5.6313
	R2408364-004	Ca (317.933 nm)	284.4304 o	0.21	11030392.2910
	R2408364-004	Cd (214.439 nm)	0.0001	61.04	16.0717
	R2408364-004	Co (230.786 nm)	0.0015	6.95	35.4664
	R2408364-004	Cr (267.716 nm)	0.0012	6.72	75.9947

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408364-004	Cu (327.395 nm)	0.0021	3.86	103.8407
	R2408364-004	Fe (234.350 nm)	1.0156	0.14	23475.2306
	R2408364-004	K (766.491 nm)	3.8760	0.55	5832.3901
	R2408364-004	Mg (279.078 nm)	118.2596 o	0.22	503166.8077
	R2408364-004	Mn (257.610 nm)	0.3281	0.12	116662.4684
	R2408364-004	Mo (202.032 nm)	0.0009	38.16	18.4751
	R2408364-004	Na (588.995 nm)	23.4826	0.30	374046.5433
	R2408364-004	Ni (230.299 nm)	0.0302	1.26	388.8336
	R2408364-004	Pb (220.353 nm)	0.0014	27.68	10.0738
	R2408364-004	Sb (217.582 nm)	0.0033	56.34	7.1889
	R2408364-004	Se (196.026 nm)	-0.0036 u	67.36	2.2383
	R2408364-004	Si (252.851 nm)	7.1739	0.03	47868.5600
	R2408364-004	Sn (189.925 nm)	-0.0001 u	> 100.00	7.1586
	R2408364-004	Sr (216.596 nm)	3.2189	0.42	62635.1242
	R2408364-004	Ti (336.122 nm)	0.0059	7.63	1018.1146
	R2408364-004	Tl (190.794 nm)	0.0016	78.78	-1.3406
	R2408364-004	V (292.401 nm)	0.0012	19.15	56.6835
	R2408364-004	Y (360.074 nm)	0.93	0.32	590209.71
	R2408364-004	Y_R (360.074 nm)	0.93	0.32	593841.62
	R2408364-004	Zn (213.857 nm)	0.0180	0.11	1111.1499
9/4/2024 21:33:07	R2408364-005	Ag (328.068 nm)	0.0002	29.60	27.0898
	R2408364-005	Al (237.312 nm)	0.4436	1.43	1172.3559
	R2408364-005	As (188.980 nm)	0.0003 u	> 100.00	-2.0773
	R2408364-005	B (249.772 nm)	0.0860	1.50	3856.0483
	R2408364-005	Ba (230.424 nm)	0.0306	1.76	1873.6980
	R2408364-005	Be (313.107 nm)	0.0000 u	> 100.00	-13.7241
	R2408364-005	Ca (317.933 nm)	203.7061 o	1.53	7900776.8106
	R2408364-005	Cd (214.439 nm)	0.0000 u	> 100.00	13.0309
	R2408364-005	Co (230.786 nm)	0.0002 u	> 100.00	7.7658
	R2408364-005	Cr (267.716 nm)	0.0015	4.76	96.0235
	R2408364-005	Cu (327.395 nm)	0.0019	6.90	95.1822
	R2408364-005	Fe (234.350 nm)	0.3857	1.62	9100.9324
	R2408364-005	K (766.491 nm)	1.8228	1.14	3127.3457
	R2408364-005	Mg (279.078 nm)	59.8551 o	1.53	254671.2194
	R2408364-005	Mn (257.610 nm)	0.0113	1.83	4035.9942
	R2408364-005	Mo (202.032 nm)	0.0013	17.41	22.7046
	R2408364-005	Na (588.995 nm)	8.8545	1.07	132148.2406
	R2408364-005	Ni (230.299 nm)	0.0229	1.75	295.0316
	R2408364-005	Pb (220.353 nm)	0.0003	80.47	4.7269
	R2408364-005	Sb (217.582 nm)	0.0061	76.50	13.8093
	R2408364-005	Se (196.026 nm)	-0.0039 u	60.20	2.0406
	R2408364-005	Si (252.851 nm)	6.2852	1.42	41954.9722
	R2408364-005	Sn (189.925 nm)	0.0000 u	> 100.00	7.3343
	R2408364-005	Sr (216.596 nm)	2.7793	1.43	54081.8391
	R2408364-005	Ti (336.122 nm)	0.0116	6.60	1927.0479
	R2408364-005	Tl (190.794 nm)	0.0012 u	> 100.00	-1.7719
	R2408364-005	V (292.401 nm)	0.0011	11.35	53.1390
	R2408364-005	Y (360.074 nm)	0.94	1.20	596205.72
	R2408364-005	Y_R (360.074 nm)	0.94	1.20	599892.80
	R2408364-005	Zn (213.857 nm)	0.0086	1.40	542.8678
9/4/2024 21:36:21	R2408364-006	Ag (328.068 nm)	0.0000 u	> 100.00	14.5556
	R2408364-006	Al (237.312 nm)	0.6221	0.33	1648.9640
	R2408364-006	As (188.980 nm)	-0.0005 u	> 100.00	-3.4433
	R2408364-006	B (249.772 nm)	0.8821	0.17	38489.9774
	R2408364-006	Ba (230.424 nm)	0.2496	0.12	15215.4784
	R2408364-006	Be (313.107 nm)	0.0000 u	> 100.00	-3.5854
	R2408364-006	Ca (317.933 nm)	72.8858 o	0.22	2828983.6740

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408364-006	Cd (214.439 nm)	0.0000 u	> 100.00	10.2395
	R2408364-006	Co (230.786 nm)	0.0001	10.33	6.4297
	R2408364-006	Cr (267.716 nm)	0.0013	4.69	84.6972
	R2408364-006	Cu (327.395 nm)	0.0001	54.25	5.2739
	R2408364-006	Fe (234.350 nm)	0.3960	0.21	9336.1998
	R2408364-006	K (766.491 nm)	4.7209	0.13	6945.5236
	R2408364-006	Mg (279.078 nm)	41.6149	0.16	177063.9888
	R2408364-006	Mn (257.610 nm)	0.0130	0.14	4657.7452
	R2408364-006	Mo (202.032 nm)	0.0001 u	> 100.00	9.3002
	R2408364-006	Na (588.995 nm)	55.8153 o	0.43	908718.5880
	R2408364-006	Ni (230.299 nm)	0.0229	1.13	295.0993
	R2408364-006	Pb (220.353 nm)	-0.0003 u	43.24	1.8542
	R2408364-006	Sb (217.582 nm)	0.0028	63.54	5.9546
	R2408364-006	Se (196.026 nm)	-0.0036 u	> 100.00	2.2446
	R2408364-006	Si (252.851 nm)	6.2371	0.09	41634.5386
	R2408364-006	Sn (189.925 nm)	-0.0003 u	> 100.00	6.5135
	R2408364-006	Sr (216.596 nm)	7.9035 o	0.35	153783.1048
	R2408364-006	Ti (336.122 nm)	0.0130	10.84	2155.0140
	R2408364-006	Tl (190.794 nm)	0.0037	42.08	0.5953
	R2408364-006	V (292.401 nm)	0.0017	6.51	77.8223
	R2408364-006	Y (360.074 nm)	0.96	0.40	609287.41
	R2408364-006	Y_R (360.074 nm)	0.96	0.40	613072.15
	R2408364-006	Zn (213.857 nm)	0.0021	3.02	149.8713
9/4/2024 21:39:35	R2408364-007	Ag (328.068 nm)	0.0001	> 100.00	21.1207
	R2408364-007	Al (237.312 nm)	0.3251	1.06	855.9321
	R2408364-007	As (188.980 nm)	-0.0011 u	52.01	-4.6079
	R2408364-007	B (249.772 nm)	0.0694	0.42	3130.0260
	R2408364-007	Ba (230.424 nm)	0.0166	0.52	1023.9868
	R2408364-007	Be (313.107 nm)	0.0000 u	> 100.00	-12.9475
	R2408364-007	Ca (317.933 nm)	257.1726 o	0.29	9973629.7160
	R2408364-007	Cd (214.439 nm)	0.0000 u	> 100.00	11.9014
	R2408364-007	Co (230.786 nm)	0.0001 u	> 100.00	6.0574
	R2408364-007	Cr (267.716 nm)	0.0007	8.27	44.6127
	R2408364-007	Cu (327.395 nm)	0.0005	51.36	25.1445
	R2408364-007	Fe (234.350 nm)	0.9528	0.18	22041.3799
	R2408364-007	K (766.491 nm)	1.9605	1.09	3308.7843
	R2408364-007	Mg (279.078 nm)	93.0118 o	0.20	395744.4321
	R2408364-007	Mn (257.610 nm)	0.1310	0.12	46606.6545
	R2408364-007	Mo (202.032 nm)	0.0009	19.60	17.5541
	R2408364-007	Na (588.995 nm)	11.6159	0.34	177813.5297
	R2408364-007	Ni (230.299 nm)	0.0248	0.76	319.2339
	R2408364-007	Pb (220.353 nm)	-0.0005 u	> 100.00	0.9030
	R2408364-007	Sb (217.582 nm)	0.0024	55.54	4.9904
	R2408364-007	Se (196.026 nm)	-0.0023 u	> 100.00	3.0699
	R2408364-007	Si (252.851 nm)	6.7487	0.05	45039.0029
	R2408364-007	Sn (189.925 nm)	-0.0006 u	> 100.00	5.7641
	R2408364-007	Sr (216.596 nm)	1.6797	0.26	32687.4690
	R2408364-007	Ti (336.122 nm)	0.0076	8.72	1292.7401
	R2408364-007	Tl (190.794 nm)	0.0011 u	> 100.00	-1.8146
	R2408364-007	V (292.401 nm)	0.0008	22.38	42.1346
	R2408364-007	Y (360.074 nm)	0.94	0.17	597316.01
	R2408364-007	Y_R (360.074 nm)	0.94	0.17	600953.41
	R2408364-007	Zn (213.857 nm)	0.0035	1.92	233.1740
9/4/2024 21:42:49	Continuing Calibration Verification1	Ag (328.068 nm)	0.5057	0.19	31769.5004
	Continuing Calibration Verification1	Al (237.312 nm)	9.7040	0.24	25895.7822
	Continuing Calibration Verification1	As (188.980 nm)	0.9729	0.07	1714.0717
	Continuing Calibration Verification1	B (249.772 nm)	2.2803	0.14	99321.7989

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification1	Ba (230.424 nm)	9.8106	0.37	597678.2632
	Continuing Calibration Verification1	Be (313.107 nm)	0.2472	0.22	303977.0824
	Continuing Calibration Verification1	Ca (317.933 nm)	25.6463	0.23	997545.6126
	Continuing Calibration Verification1	Cd (214.439 nm)	0.4999	0.28	31560.1520
	Continuing Calibration Verification1	Co (230.786 nm)	2.4807	0.41	52452.8841
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5145	0.27	30994.3874
	Continuing Calibration Verification1	Cu (327.395 nm)	1.2188	0.31	59024.9710
	Continuing Calibration Verification1	Fe (234.350 nm)	4.9958	0.24	114296.1911
	Continuing Calibration Verification1	K (766.491 nm)	24.1739	0.34	32574.6921
	Continuing Calibration Verification1	Mg (279.078 nm)	25.6244	0.30	109028.9822
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7372	0.23	262088.0923
	Continuing Calibration Verification1	Mo (202.032 nm)	2.5582	0.34	27294.6617
	Continuing Calibration Verification1	Na (588.995 nm)	24.3406	0.43	388235.9900
	Continuing Calibration Verification1	Ni (230.299 nm)	2.0105	0.20	25822.3903
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5097	0.09	2542.5392
	Continuing Calibration Verification1	Sb (217.582 nm)	4.8743	0.11	11629.1672
	Continuing Calibration Verification1	Se (196.026 nm)	0.4805	0.41	313.0970
	Continuing Calibration Verification1	Si (252.851 nm)	9.8306 Q	1.30	65547.8716 Q
	Continuing Calibration Verification1	Sn (189.925 nm)	5.0959	0.17	13633.6924
	Continuing Calibration Verification1	Sr (216.596 nm)	2.5078	0.44	48800.4663
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5790	0.10	409098.0376
	Continuing Calibration Verification1	Tl (190.794 nm)	1.0027	0.49	928.2624
	Continuing Calibration Verification1	V (292.401 nm)	2.5360	0.16	97477.5440
	Continuing Calibration Verification1	Y (360.074 nm)	0.97	0.52	614521.81
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.97	0.53	618377.65
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9941	0.06	60263.3028
9/4/2024 21:46:03	Continuing Calibration Blank1	Ag (328.068 nm)	0.0000 u	> 100.00	15.3333
	Continuing Calibration Blank1	Al (237.312 nm)	0.0011	71.91	-9.1042
	Continuing Calibration Blank1	As (188.980 nm)	0.0014	48.81	-0.2018
	Continuing Calibration Blank1	B (249.772 nm)	0.0003	98.91	124.2468
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0004	11.70	35.1498
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000 u	> 100.00	-12.1486
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0021	5.76	3340.9411
	Continuing Calibration Blank1	Cd (214.439 nm)	-0.0001 u	13.92	2.6166
	Continuing Calibration Blank1	Co (230.786 nm)	0.0002	84.10	7.1507
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0000 u	> 100.00	5.7137
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0000 u	> 100.00	2.5540
	Continuing Calibration Blank1	Fe (234.350 nm)	-0.0051 u	16.93	185.1737
	Continuing Calibration Blank1	K (766.491 nm)	-0.0001 u	> 100.00	725.7893
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0010	44.59	7.9943
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0000 u	> 100.00	27.3092
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0065	15.08	78.2030
	Continuing Calibration Blank1	Na (588.995 nm)	0.0223	13.69	-13905.4577
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0001 u	> 100.00	2.9640
	Continuing Calibration Blank1	Pb (220.353 nm)	-0.0007 u	58.32	-0.4106
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0119	5.36	27.8062
	Continuing Calibration Blank1	Se (196.026 nm)	-0.0043 u	56.54	1.7912
	Continuing Calibration Blank1	Si (252.851 nm)	0.0009 u	> 100.00	135.1090
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0000 u	> 100.00	7.3018
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0000 u	> 100.00	6.9071
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0066	26.65	1131.2030
	Continuing Calibration Blank1	Tl (190.794 nm)	0.0024	62.50	-0.6085
	Continuing Calibration Blank1	V (292.401 nm)	0.0001 u	> 100.00	13.6070
	Continuing Calibration Blank1	Y (360.074 nm)	1.02	0.27	644144.28
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.02	0.27	648288.99
	Continuing Calibration Blank1	Zn (213.857 nm)	-0.0001 u	50.78	14.3968
9/4/2024 21:49:17	R2408364-008	Ag (328.068 nm)	0.0003	46.38	29.1734

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408364-008	Al (237.312 nm)	0.1301	0.82	335.4742
	R2408364-008	As (188.980 nm)	0.0015 u	> 100.00	-0.0762
	R2408364-008	B (249.772 nm)	0.6143	0.15	26839.4505
	R2408364-008	Ba (230.424 nm)	0.2410	0.13	14691.7793
	R2408364-008	Be (313.107 nm)	0.0000 u	46.70	-14.3983
	R2408364-008	Ca (317.933 nm)	88.0594 o	0.17	3417249.5906
	R2408364-008	Cd (214.439 nm)	0.0000	> 100.00	14.5322
	R2408364-008	Co (230.786 nm)	-0.0001 u	> 100.00	1.1866
	R2408364-008	Cr (267.716 nm)	0.0007	9.49	46.0494
	R2408364-008	Cu (327.395 nm)	0.0000 u	34.32	0.2901
	R2408364-008	Fe (234.350 nm)	0.1308	0.79	3285.9949
	R2408364-008	K (766.491 nm)	2.5896	0.71	4137.5653
	R2408364-008	Mg (279.078 nm)	47.9517	0.16	204025.6210
	R2408364-008	Mn (257.610 nm)	0.0788	0.11	28039.6096
	R2408364-008	Mo (202.032 nm)	0.0014	18.42	23.1555
	R2408364-008	Na (588.995 nm)	45.5291	0.33	738619.8849
	R2408364-008	Ni (230.299 nm)	0.0227	2.74	292.7372
	R2408364-008	Pb (220.353 nm)	-0.0002 u	> 100.00	2.0006
	R2408364-008	Sb (217.582 nm)	0.0072	22.35	16.4724
	R2408364-008	Se (196.026 nm)	-0.0002 u	> 100.00	4.3815
	R2408364-008	Si (252.851 nm)	6.9750	0.02	46544.9634
	R2408364-008	Sn (189.925 nm)	-0.0003 u	> 100.00	6.6059
	R2408364-008	Sr (216.596 nm)	6.1566 o	0.18	119794.2721
	R2408364-008	Ti (336.122 nm)	0.0033	19.82	619.7593
	R2408364-008	Tl (190.794 nm)	0.0034	53.16	0.2637
	R2408364-008	V (292.401 nm)	0.0016	3.46	73.9819
	R2408364-008	Y (360.074 nm)	0.96	0.39	609991.89
	R2408364-008	Y_R (360.074 nm)	0.96	0.39	613827.54
	R2408364-008	Zn (213.857 nm)	0.0017	2.18	124.0595
9/4/2024 21:52:31	R2408364-009	Ag (328.068 nm)	0.0000 u	> 100.00	11.8000
	R2408364-009	Al (237.312 nm)	1.9541	2.69	5204.9884
	R2408364-009	As (188.980 nm)	0.0016 u	> 100.00	0.1680
	R2408364-009	B (249.772 nm)	0.1008	1.93	4497.0418
	R2408364-009	Ba (230.424 nm)	0.1073	2.05	6547.0120
	R2408364-009	Be (313.107 nm)	0.0000	67.28	9.2329
	R2408364-009	Ca (317.933 nm)	144.0230 o	1.86	5586911.5622
	R2408364-009	Cd (214.439 nm)	0.0001	3.29	19.5615
	R2408364-009	Co (230.786 nm)	0.0004	31.22	12.3933
	R2408364-009	Cr (267.716 nm)	0.0031	3.98	190.5152
	R2408364-009	Cu (327.395 nm)	0.0015	18.42	73.2324
	R2408364-009	Fe (234.350 nm)	4.2344	1.91	96923.5496
	R2408364-009	K (766.491 nm)	3.7715	2.10	5694.7267
	R2408364-009	Mg (279.078 nm)	51.6762	1.81	219872.4762
	R2408364-009	Mn (257.610 nm)	0.1408	1.90	50079.7787
	R2408364-009	Mo (202.032 nm)	0.0017	3.48	26.8947
	R2408364-009	Na (588.995 nm)	16.6487	2.14	261038.3748
	R2408364-009	Ni (230.299 nm)	0.0375	4.14	482.5483
	R2408364-009	Pb (220.353 nm)	0.0021	36.07	13.5682
	R2408364-009	Sb (217.582 nm)	0.0058	22.03	13.1027
	R2408364-009	Se (196.026 nm)	-0.0033 u	87.36	2.3985
	R2408364-009	Si (252.851 nm)	8.8524	2.59	59038.1674
	R2408364-009	Sn (189.925 nm)	-0.0001 u	> 100.00	6.9906
	R2408364-009	Sr (216.596 nm)	2.7853	1.85	54199.7474
	R2408364-009	Ti (336.122 nm)	0.0591	3.10	9455.7863
	R2408364-009	Tl (190.794 nm)	0.0024	30.87	-0.6098
	R2408364-009	V (292.401 nm)	0.0042	3.13	170.8865
	R2408364-009	Y (360.074 nm)	0.95	1.95	602663.00

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408364-009	Y_R (360.074 nm)	0.95	1.95	606316.59
	R2408364-009	Zn (213.857 nm)	0.0144	2.29	895.5706
9/4/2024 21:55:46	R2408364-009S	Ag (328.068 nm)	0.0494	0.11	3112.5057
	R2408364-009S	Al (237.312 nm)	3.6040	0.38	9609.8606
	R2408364-009S	As (188.980 nm)	0.0411	4.32	69.9056
	R2408364-009S	B (249.772 nm)	1.0508	0.09	45829.7419
	R2408364-009S	Ba (230.424 nm)	2.0220	0.15	123191.8871
	R2408364-009S	Be (313.107 nm)	0.0490	0.04	60214.7279
	R2408364-009S	Ca (317.933 nm)	142.4900 o	0.15	5527478.6583
	R2408364-009S	Cd (214.439 nm)	0.0483	0.40	3058.0502
	R2408364-009S	Co (230.786 nm)	0.4692	0.13	9922.8789
	R2408364-009S	Cr (267.716 nm)	0.2000	0.09	12048.6306
	R2408364-009S	Cu (327.395 nm)	0.2443	0.16	11834.2828
	R2408364-009S	Fe (234.350 nm)	5.1210	0.12	117153.3116
	R2408364-009S	K (766.491 nm)	23.6336	0.22	31862.8313
	R2408364-009S	Mg (279.078 nm)	52.4969	0.10	223364.0632
	R2408364-009S	Mn (257.610 nm)	0.6128	0.09	217849.3787
	R2408364-009S	Mo (202.032 nm)	0.4929	0.70	5265.7386
	R2408364-009S	Na (588.995 nm)	35.4935	0.39	572666.2380
	R2408364-009S	Ni (230.299 nm)	0.5001	0.14	6424.0354
	R2408364-009S	Pb (220.353 nm)	0.5004	0.44	2496.2031
	R2408364-009S	Sb (217.582 nm)	0.4959	1.06	1182.4109
	R2408364-009S	Se (196.026 nm)	0.9893	1.00	639.9129
	R2408364-009S	Si (252.851 nm)	8.6016	0.19	57369.4451
	R2408364-009S	Sn (189.925 nm)	4.9774	0.14	13316.9851
	R2408364-009S	Sr (216.596 nm)	4.6522	0.05	90523.0646
	R2408364-009S	Ti (336.122 nm)	0.5423	0.27	86098.1270
	R2408364-009S	Tl (190.794 nm)	1.9124	0.18	1773.0025
	R2408364-009S	V (292.401 nm)	0.4966	0.04	19097.0708
	R2408364-009S	Y (360.074 nm)	0.95	0.43	603233.52
	R2408364-009S	Y_R (360.074 nm)	0.95	0.43	606887.34
	R2408364-009S	Zn (213.857 nm)	0.5046	0.09	30600.3003
9/4/2024 21:59:00	R2408364-009SD	Ag (328.068 nm)	0.0496	0.09	3125.1948
	R2408364-009SD	Al (237.312 nm)	3.7331	0.69	9954.7364
	R2408364-009SD	As (188.980 nm)	0.0390	6.29	66.2311
	R2408364-009SD	B (249.772 nm)	1.0506	0.06	45821.8269
	R2408364-009SD	Ba (230.424 nm)	2.0203	0.28	123089.5767
	R2408364-009SD	Be (313.107 nm)	0.0489	0.06	60070.7748
	R2408364-009SD	Ca (317.933 nm)	143.3978 o	0.16	5562673.7608
	R2408364-009SD	Cd (214.439 nm)	0.0482	0.37	3054.8592
	R2408364-009SD	Co (230.786 nm)	0.4682	0.06	9902.6329
	R2408364-009SD	Cr (267.716 nm)	0.1994	0.08	12016.3139
	R2408364-009SD	Cu (327.395 nm)	0.2440	0.15	11819.7978
	R2408364-009SD	Fe (234.350 nm)	5.1601	0.09	118046.4014
	R2408364-009SD	K (766.491 nm)	23.7254	0.53	31983.7625
	R2408364-009SD	Mg (279.078 nm)	52.8244	0.11	224757.7716
	R2408364-009SD	Mn (257.610 nm)	0.6129	0.06	217898.1227
	R2408364-009SD	Mo (202.032 nm)	0.4977	0.67	5317.4930
	R2408364-009SD	Na (588.995 nm)	35.5136	0.53	572998.0840
	R2408364-009SD	Ni (230.299 nm)	0.5006	0.18	6430.5449
	R2408364-009SD	Pb (220.353 nm)	0.4981	0.28	2484.3183
	R2408364-009SD	Sb (217.582 nm)	0.4996	0.49	1191.3733
	R2408364-009SD	Se (196.026 nm)	0.9996	1.25	646.5200
	R2408364-009SD	Si (252.851 nm)	8.8894	0.47	59284.3578
	R2408364-009SD	Sn (189.925 nm)	4.9467	0.10	13234.8239
	R2408364-009SD	Sr (216.596 nm)	4.6583	0.26	90641.2630
	R2408364-009SD	Ti (336.122 nm)	0.5509	0.41	87457.7949

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408364-009SD	Tl (190.794 nm)	1.9071	0.06	1768.0632
	R2408364-009SD	V (292.401 nm)	0.4954	0.02	19049.6190
	R2408364-009SD	Y (360.074 nm)	0.95	0.46	603456.21
	R2408364-009SD	Y_R (360.074 nm)	0.95	0.46	607178.79
	R2408364-009SD	Zn (213.857 nm)	0.5048	0.10	30614.0878
9/4/2024 22:02:14	R2408364-009A	Ag (328.068 nm)	0.0475	0.36	2996.9654
	R2408364-009A	Al (237.312 nm)	3.8330	0.68	10221.4453
	R2408364-009A	As (188.980 nm)	0.0401	3.63	68.0905
	R2408364-009A	B (249.772 nm)	1.0466	0.09	45646.2870
	R2408364-009A	Ba (230.424 nm)	2.0073	0.12	122299.4395
	R2408364-009A	Be (313.107 nm)	0.0486	0.13	59790.5391
	R2408364-009A	Ca (317.933 nm)	139.7114 o	0.24	5419755.5523
	R2408364-009A	Cd (214.439 nm)	0.0479	0.33	3033.9565
	R2408364-009A	Co (230.786 nm)	0.4653	0.09	9840.1167
	R2408364-009A	Cr (267.716 nm)	0.1982	0.17	11944.5019
	R2408364-009A	Cu (327.395 nm)	0.2423	0.20	11736.3959
	R2408364-009A	Fe (234.350 nm)	5.0415	0.15	115339.9698
	R2408364-009A	K (766.491 nm)	23.5331	0.52	31730.4104
	R2408364-009A	Mg (279.078 nm)	51.4252	0.17	218804.1274
	R2408364-009A	Mn (257.610 nm)	0.6061	0.14	215468.5191
	R2408364-009A	Mo (202.032 nm)	0.4921	0.52	5257.1020
	R2408364-009A	Na (588.995 nm)	34.9113	0.41	563038.2006
	R2408364-009A	Ni (230.299 nm)	0.4977	0.20	6392.8554
	R2408364-009A	Pb (220.353 nm)	0.4965	0.18	2476.5711
	R2408364-009A	Sb (217.582 nm)	0.4956	0.64	1181.8857
	R2408364-009A	Se (196.026 nm)	0.9817	0.72	634.9865
	R2408364-009A	Si (252.851 nm)	8.8677	0.45	59140.2291
	R2408364-009A	Sn (189.925 nm)	4.9213	0.14	13166.8183
	R2408364-009A	Sr (216.596 nm)	4.5648	0.29	88823.3930
	R2408364-009A	Ti (336.122 nm)	0.5505	0.28	87400.9108
	R2408364-009A	Tl (190.794 nm)	1.9005	0.29	1761.9056
	R2408364-009A	V (292.401 nm)	0.4922	0.13	18927.1115
	R2408364-009A	Y (360.074 nm)	0.95	0.39	604049.98
	R2408364-009A	Y_R (360.074 nm)	0.95	0.39	607744.28
	R2408364-009A	Zn (213.857 nm)	0.5043	0.10	30582.5370
9/4/2024 22:05:27	R2408364-009L 5X	Ag (328.068 nm)	0.0000 u	> 100.00	15.0486
	R2408364-009L 5X	Al (237.312 nm)	0.3663	7.07	965.9679
	R2408364-009L 5X	As (188.980 nm)	0.0008	87.99	-1.2672
	R2408364-009L 5X	B (249.772 nm)	0.0192	5.32	949.3994
	R2408364-009L 5X	Ba (230.424 nm)	0.0210	5.87	1290.6351
	R2408364-009L 5X	Be (313.107 nm)	0.0000 u	> 100.00	-10.7967
	R2408364-009L 5X	Ca (317.933 nm)	28.9341	5.40	1125011.5130
	R2408364-009L 5X	Cd (214.439 nm)	0.0000 u	98.67	9.6500
	R2408364-009L 5X	Co (230.786 nm)	0.0000 u	> 100.00	3.7977
	R2408364-009L 5X	Cr (267.716 nm)	0.0006	17.14	38.8066
	R2408364-009L 5X	Cu (327.395 nm)	0.0002	73.41	10.6729
	R2408364-009L 5X	Fe (234.350 nm)	0.8259	5.53	19145.9184
	R2408364-009L 5X	K (766.491 nm)	0.6676	1.07	1605.4082
	R2408364-009L 5X	Mg (279.078 nm)	10.0187	5.55	42630.5268
	R2408364-009L 5X	Mn (257.610 nm)	0.0277	5.61	9886.7590
	R2408364-009L 5X	Mo (202.032 nm)	0.0042	18.51	53.0948
	R2408364-009L 5X	Na (588.995 nm)	3.0898	5.46	36820.3261
	R2408364-009L 5X	Ni (230.299 nm)	0.0069	5.01	90.0008
	R2408364-009L 5X	Pb (220.353 nm)	0.0005 u	> 100.00	5.8482
	R2408364-009L 5X	Sb (217.582 nm)	0.0064	9.06	14.7121
	R2408364-009L 5X	Se (196.026 nm)	-0.0006 u	> 100.00	4.1333
	R2408364-009L 5X	Si (252.851 nm)	1.6509	5.76	11115.5223

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408364-009L 5X	Sn (189.925 nm)	0.0015	50.43	11.2802
	R2408364-009L 5X	Sr (216.596 nm)	0.5488	5.36	10683.6768
	R2408364-009L 5X	Ti (336.122 nm)	0.0112	5.22	1867.1464
	R2408364-009L 5X	Tl (190.794 nm)	0.0012 u	> 100.00	-1.7669
	R2408364-009L 5X	V (292.401 nm)	0.0008	18.67	43.6591
	R2408364-009L 5X	Y (360.074 nm)	1.00	0.61	631743.34
	R2408364-009L 5X	Y_R (360.074 nm)	1.00	0.61	635690.40
	R2408364-009L 5X	Zn (213.857 nm)	0.0027	5.42	186.5553
9/4/2024 22:08:41	R2408364-010	Ag (328.068 nm)	0.0002	55.10	24.7072
	R2408364-010	Al (237.312 nm)	0.1154	0.16	296.1469
	R2408364-010	As (188.980 nm)	0.0013 u	87.84	-0.4159
	R2408364-010	B (249.772 nm)	0.1010	0.28	4507.8113
	R2408364-010	Ba (230.424 nm)	0.1720	0.29	10487.8605
	R2408364-010	Be (313.107 nm)	0.0000 u	43.27	-17.0284
	R2408364-010	Ca (317.933 nm)	111.2752 o	0.29	4317306.9864
	R2408364-010	Cd (214.439 nm)	0.0000 u	> 100.00	11.7201
	R2408364-010	Co (230.786 nm)	0.0002	99.87	7.0137
	R2408364-010	Cr (267.716 nm)	0.0018	5.43	109.7468
	R2408364-010	Cu (327.395 nm)	0.0002	56.62	12.8102
	R2408364-010	Fe (234.350 nm)	0.0944	1.59	2455.1826
	R2408364-010	K (766.491 nm)	2.1260	0.23	3526.8341
	R2408364-010	Mg (279.078 nm)	51.2623	0.28	218111.0827
	R2408364-010	Mn (257.610 nm)	0.0034	0.24	1245.0012
	R2408364-010	Mo (202.032 nm)	0.0049	3.45	60.2785
	R2408364-010	Na (588.995 nm)	16.6376	0.14	260854.8815
	R2408364-010	Ni (230.299 nm)	0.0268	1.41	345.9189
	R2408364-010	Pb (220.353 nm)	-0.0004 u	> 100.00	1.2809
	R2408364-010	Sb (217.582 nm)	0.0057	13.65	12.9539
	R2408364-010	Se (196.026 nm)	-0.0033 u	54.16	2.4068
	R2408364-010	Si (252.851 nm)	7.3167	0.05	48819.1187
	R2408364-010	Sn (189.925 nm)	0.0006	84.13	9.1176
	R2408364-010	Sr (216.596 nm)	1.6158	0.23	31445.3675
	R2408364-010	Ti (336.122 nm)	0.0025	16.03	493.0484
	R2408364-010	Tl (190.794 nm)	0.0028	56.36	-0.2600
	R2408364-010	V (292.401 nm)	0.0007	29.83	38.1690
	R2408364-010	Y (360.074 nm)	0.96	0.38	609164.64
	R2408364-010	Y_R (360.074 nm)	0.96	0.38	612928.99
	R2408364-010	Zn (213.857 nm)	0.0039	0.86	253.4670
9/4/2024 22:11:55	R2408139-004 5X	Ag (328.068 nm)	0.0002	41.31	27.7895
	R2408139-004 5X	Al (237.312 nm)	0.0061	7.09	4.2076
	R2408139-004 5X	As (188.980 nm)	0.0013	50.54	-0.3653
	R2408139-004 5X	B (249.772 nm)	0.0146	0.47	747.5683
	R2408139-004 5X	Ba (230.424 nm)	0.0654	0.14	3995.5762
	R2408139-004 5X	Be (313.107 nm)	0.0000 u	> 100.00	-11.1175
	R2408139-004 5X	Ca (317.933 nm)	8.6509	0.07	338649.8581
	R2408139-004 5X	Cd (214.439 nm)	-0.0001 u	5.21	5.3036
	R2408139-004 5X	Co (230.786 nm)	0.0071	2.81	153.2982
	R2408139-004 5X	Cr (267.716 nm)	0.0004	2.99	29.5410
	R2408139-004 5X	Cu (327.395 nm)	0.0004	21.00	20.9724
	R2408139-004 5X	Fe (234.350 nm)	1.6792	0.04	38617.1895
	R2408139-004 5X	K (766.491 nm)	0.5487	2.90	1448.7174
	R2408139-004 5X	Mg (279.078 nm)	1.0731	0.04	4569.5067
	R2408139-004 5X	Mn (257.610 nm)	3.8228 o	0.10	1358914.3664
	R2408139-004 5X	Mo (202.032 nm)	0.0008	25.19	17.2184
	R2408139-004 5X	Na (588.995 nm)	2.0097	0.14	18959.5995
	R2408139-004 5X	Ni (230.299 nm)	0.0044	9.03	58.1562
	R2408139-004 5X	Pb (220.353 nm)	0.0000 u	> 100.00	3.1422

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408139-004 5X	Sb (217.582 nm)	0.0029	49.42	6.3321
	R2408139-004 5X	Se (196.026 nm)	0.0035	39.99	6.7556
	R2408139-004 5X	Si (252.851 nm)	0.5987	0.68	4112.9959
	R2408139-004 5X	Sn (189.925 nm)	-0.0001 u	> 100.00	7.1901
	R2408139-004 5X	Sr (216.596 nm)	0.0256	0.54	504.2858
	R2408139-004 5X	Ti (336.122 nm)	0.0005	52.45	170.6187
	R2408139-004 5X	Tl (190.794 nm)	0.0051	21.58	1.8905
	R2408139-004 5X	V (292.401 nm)	0.0001 u	> 100.00	14.0742
	R2408139-004 5X	Y (360.074 nm)	1.02	0.36	644336.37
	R2408139-004 5X	Y_R (360.074 nm)	1.02	0.36	648399.48
	R2408139-004 5X	Zn (213.857 nm)	0.0028	0.06	191.1801
9/4/2024 22:15:08	Continuing Calibration Verification1	Ag (328.068 nm)	0.5051	0.02	31728.7172
	Continuing Calibration Verification1	Al (237.312 nm)	9.6669	0.24	25796.7223
	Continuing Calibration Verification1	As (188.980 nm)	0.9707	0.35	1710.0274
	Continuing Calibration Verification1	B (249.772 nm)	2.2742	0.06	99055.2196
	Continuing Calibration Verification1	Ba (230.424 nm)	9.7941	0.18	596672.4640
	Continuing Calibration Verification1	Be (313.107 nm)	0.2465	0.09	303177.2545
	Continuing Calibration Verification1	Ca (317.933 nm)	25.5511	0.16	993857.2273
	Continuing Calibration Verification1	Cd (214.439 nm)	0.4985	0.15	31470.6506
	Continuing Calibration Verification1	Co (230.786 nm)	2.4790	0.06	52415.0765
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5128	0.08	30895.7072
	Continuing Calibration Verification1	Cu (327.395 nm)	1.2116	0.24	58674.1737
	Continuing Calibration Verification1	Fe (234.350 nm)	4.9838	0.07	114021.8139
	Continuing Calibration Verification1	K (766.491 nm)	24.0648	0.22	32430.8883
	Continuing Calibration Verification1	Mg (279.078 nm)	25.5597	0.13	108753.3398
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7358	0.06	261578.1328
	Continuing Calibration Verification1	Mo (202.032 nm)	2.5521	0.19	27229.2175
	Continuing Calibration Verification1	Na (588.995 nm)	24.2620	0.35	386934.9672
	Continuing Calibration Verification1	Ni (230.299 nm)	2.0058	0.11	25762.2617
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5082	0.33	2534.8706
	Continuing Calibration Verification1	Sb (217.582 nm)	4.8592	0.09	11593.1379
	Continuing Calibration Verification1	Se (196.026 nm)	0.4811	0.12	313.4936
	Continuing Calibration Verification1	Si (252.851 nm)	9.7945 Q	1.22	65307.7984 Q
	Continuing Calibration Verification1	Sn (189.925 nm)	5.0801	0.06	13591.5529
	Continuing Calibration Verification1	Sr (216.596 nm)	2.5003	0.40	48654.3126
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5735	0.14	408219.8788
	Continuing Calibration Verification1	Tl (190.794 nm)	0.9974	0.34	923.3220
	Continuing Calibration Verification1	V (292.401 nm)	2.5294	0.06	97221.2136
	Continuing Calibration Verification1	Y (360.074 nm)	0.97	0.68	614241.62
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.97	0.68	618082.09
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9951	0.17	60326.8165
9/4/2024 22:18:23	Continuing Calibration Blank1	Ag (328.068 nm)	0.0001 u	> 100.00	16.4864
	Continuing Calibration Blank1	Al (237.312 nm)	0.0009	57.10	-9.4917
	Continuing Calibration Blank1	As (188.980 nm)	0.0015	45.88	0.0871
	Continuing Calibration Blank1	B (249.772 nm)	0.0003	52.35	125.2036
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0005	10.30	38.6511
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000 u	> 100.00	-9.1169
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0017	10.71	3327.6359
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000	89.13	13.5503
	Continuing Calibration Blank1	Co (230.786 nm)	0.0000 u	> 100.00	3.4945
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0000 u	> 100.00	1.5323
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0000 u	> 100.00	1.6032
	Continuing Calibration Blank1	Fe (234.350 nm)	-0.0048 u	25.94	191.3487
	Continuing Calibration Blank1	K (766.491 nm)	0.0193 u	92.66	751.2516
	Continuing Calibration Blank1	Mg (279.078 nm)	-0.0003 u	75.93	2.6118
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0000	> 100.00	31.9155
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0068	10.95	81.3120

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank1	Na (588.995 nm)	0.0026	18.01	-14231.5018
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0002	> 100.00	3.2151
	Continuing Calibration Blank1	Pb (220.353 nm)	-0.0007 u	94.51	-0.4401
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0129	11.23	30.1840
	Continuing Calibration Blank1	Se (196.026 nm)	-0.0031 u	69.37	2.5070
	Continuing Calibration Blank1	Si (252.851 nm)	0.0012 u	> 100.00	137.2877
	Continuing Calibration Blank1	Sn (189.925 nm)	-0.0003 u	> 100.00	6.5668
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0001 u	> 100.00	8.5735
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0065	27.12	1127.4371
	Continuing Calibration Blank1	Tl (190.794 nm)	0.0013	86.95	-1.6643
	Continuing Calibration Blank1	V (292.401 nm)	0.0003	28.39	22.0443
	Continuing Calibration Blank1	Y (360.074 nm)	1.01	0.65	642098.02
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.01	0.65	646285.61
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0000 u	> 100.00	20.2802
9/4/2024 22:21:36	PBW-444157	Ag (328.068 nm)	0.0001 u	> 100.00	17.5496
	PBW-444157	Al (237.312 nm)	0.0021	60.81	-6.3827
	PBW-444157	As (188.980 nm)	0.0016	84.74	0.1994
	PBW-444157	B (249.772 nm)	0.0005	5.22	134.0936
	PBW-444157	Ba (230.424 nm)	0.0000 u	> 100.00	12.5911
	PBW-444157	Be (313.107 nm)	0.0000 u	> 100.00	-10.6810
	PBW-444157	Ca (317.933 nm)	0.0123	1.59	3737.2751
	PBW-444157	Cd (214.439 nm)	0.0000 u	> 100.00	10.9776
	PBW-444157	Co (230.786 nm)	0.0000 u	> 100.00	2.7471
	PBW-444157	Cr (267.716 nm)	0.0002	18.19	13.3335
	PBW-444157	Cu (327.395 nm)	0.0001	18.38	5.5701
	PBW-444157	Fe (234.350 nm)	-0.0051 u	17.05	185.0604
	PBW-444157	K (766.491 nm)	0.0169 u	> 100.00	748.1432
	PBW-444157	Mg (279.078 nm)	0.0003	> 100.00	5.0473
	PBW-444157	Mn (257.610 nm)	0.0001	19.95	68.4777
	PBW-444157	Mo (202.032 nm)	0.0017	29.52	26.2120
	PBW-444157	Na (588.995 nm)	0.0150	11.31	-14026.8983
	PBW-444157	Ni (230.299 nm)	0.0001 u	> 100.00	2.8459
	PBW-444157	Pb (220.353 nm)	-0.0003 u	> 100.00	1.5840
	PBW-444157	Sb (217.582 nm)	0.0101	14.03	23.4122
	PBW-444157	Se (196.026 nm)	0.0007 u	> 100.00	4.9772
	PBW-444157	Si (252.851 nm)	0.0082	43.43	183.4441
	PBW-444157	Sn (189.925 nm)	0.0000 u	> 100.00	7.4039
	PBW-444157	Sr (216.596 nm)	0.0000 u	> 100.00	6.5329
	PBW-444157	Ti (336.122 nm)	0.0024	37.86	475.2675
	PBW-444157	Tl (190.794 nm)	0.0010 u	> 100.00	-1.9727
	PBW-444157	V (292.401 nm)	-0.0001 u	57.16	8.2546
	PBW-444157	Y (360.074 nm)	1.02	0.35	648032.64
	PBW-444157	Y_R (360.074 nm)	1.02	0.35	652212.81
	PBW-444157	Zn (213.857 nm)	0.0003	18.89	40.6710
9/4/2024 22:24:50	LCSW-444157	Ag (328.068 nm)	0.0484	0.29	3053.8577
	LCSW-444157	Al (237.312 nm)	1.9048	0.17	5073.4190
	LCSW-444157	As (188.980 nm)	0.0367	1.26	62.1067
	LCSW-444157	B (249.772 nm)	0.9008	0.12	39304.3376
	LCSW-444157	Ba (230.424 nm)	1.9195	0.32	116947.3135
	LCSW-444157	Be (313.107 nm)	0.0483	0.20	59425.3205
	LCSW-444157	Ca (317.933 nm)	1.9717	0.24	79702.3259
	LCSW-444157	Cd (214.439 nm)	0.0495	0.23	3135.3093
	LCSW-444157	Co (230.786 nm)	0.4872	0.16	10304.8327
	LCSW-444157	Cr (267.716 nm)	0.1965	0.19	11837.8018
	LCSW-444157	Cu (327.395 nm)	0.2430	0.09	11770.5651
	LCSW-444157	Fe (234.350 nm)	0.9800	0.15	22662.6641
	LCSW-444157	K (766.491 nm)	18.2361	0.28	24751.6922

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	LCSW-444157	Mg (279.078 nm)	1.9279	0.23	8206.2559
	LCSW-444157	Mn (257.610 nm)	0.4714	0.23	167611.4030
	LCSW-444157	Mo (202.032 nm)	0.4797	0.56	5125.5414
	LCSW-444157	Na (588.995 nm)	18.7874	0.38	296404.0973
	LCSW-444157	Ni (230.299 nm)	0.4834	0.35	6209.5869
	LCSW-444157	Pb (220.353 nm)	0.5126	0.09	2556.6275
	LCSW-444157	Sb (217.582 nm)	0.4808	1.04	1146.5526
	LCSW-444157	Se (196.026 nm)	0.9605	0.46	621.4028
	LCSW-444157	Si (252.851 nm)	0.2883	1.42	2047.4762
	LCSW-444157	Sn (189.925 nm)	4.8993	0.37	13108.1605
	LCSW-444157	Sr (216.596 nm)	1.9679	0.55	38295.3486
	LCSW-444157	Ti (336.122 nm)	0.4896	0.06	77729.3774
	LCSW-444157	Tl (190.794 nm)	1.9434	0.09	1801.7724
	LCSW-444157	V (292.401 nm)	0.4828	0.19	18567.6471
	LCSW-444157	Y (360.074 nm)	1.00	0.41	633334.68
	LCSW-444157	Y_R (360.074 nm)	1.00	0.41	637329.84
	LCSW-444157	Zn (213.857 nm)	0.4931	0.23	29901.4880
9/4/2024 22:28:04	DLCSW-444157	Ag (328.068 nm)	0.0484	0.07	3050.6704
	DLCSW-444157	Al (237.312 nm)	1.9015	0.17	5064.6070
	DLCSW-444157	As (188.980 nm)	0.0387	4.48	65.5720
	DLCSW-444157	B (249.772 nm)	0.9020	0.05	39358.4371
	DLCSW-444157	Ba (230.424 nm)	1.9231	0.09	117164.2589
	DLCSW-444157	Be (313.107 nm)	0.0483	0.09	59407.6472
	DLCSW-444157	Ca (317.933 nm)	1.9725	0.15	79732.6269
	DLCSW-444157	Cd (214.439 nm)	0.0495	0.22	3134.7429
	DLCSW-444157	Co (230.786 nm)	0.4871	0.14	10302.5411
	DLCSW-444157	Cr (267.716 nm)	0.1966	0.10	11848.9514
	DLCSW-444157	Cu (327.395 nm)	0.2435	0.09	11791.9742
	DLCSW-444157	Fe (234.350 nm)	0.9827	0.17	22725.4303
	DLCSW-444157	K (766.491 nm)	18.2618	0.26	24785.5509
	DLCSW-444157	Mg (279.078 nm)	1.9270	0.21	8202.7483
	DLCSW-444157	Mn (257.610 nm)	0.4719	0.05	167759.5495
	DLCSW-444157	Mo (202.032 nm)	0.4830	0.67	5159.9652
	DLCSW-444157	Na (588.995 nm)	18.7993	0.38	296601.7109
	DLCSW-444157	Ni (230.299 nm)	0.4832	0.26	6206.5601
	DLCSW-444157	Pb (220.353 nm)	0.5121	0.09	2554.4018
	DLCSW-444157	Sb (217.582 nm)	0.4812	0.95	1147.3939
	DLCSW-444157	Se (196.026 nm)	0.9602	0.57	621.1973
	DLCSW-444157	Si (252.851 nm)	0.3018	1.20	2137.5449
	DLCSW-444157	Sn (189.925 nm)	4.9120	0.27	13141.9805
	DLCSW-444157	Sr (216.596 nm)	1.9714	0.38	38363.2465
	DLCSW-444157	Ti (336.122 nm)	0.4907	0.05	77905.1604
	DLCSW-444157	Tl (190.794 nm)	1.9418	0.23	1800.2353
	DLCSW-444157	V (292.401 nm)	0.4832	0.10	18583.6297
	DLCSW-444157	Y (360.074 nm)	1.00	0.32	633811.37
	DLCSW-444157	Y_R (360.074 nm)	1.00	0.32	637865.12
	DLCSW-444157	Zn (213.857 nm)	0.4940	0.09	29958.5910
9/4/2024 22:31:18	R2408385-001	Ag (328.068 nm)	0.0001 u	> 100.00	17.8391
	R2408385-001	Al (237.312 nm)	0.2852	2.08	749.5279
	R2408385-001	As (188.980 nm)	0.0022	8.70	1.2669
	R2408385-001	B (249.772 nm)	0.0386	2.59	1790.4348
	R2408385-001	Ba (230.424 nm)	0.1139	2.09	6949.1228
	R2408385-001	Be (313.107 nm)	0.0000	25.21	12.9521
	R2408385-001	Ca (317.933 nm)	110.1789 o	1.85	4274804.8862
	R2408385-001	Cd (214.439 nm)	0.0001	51.02	16.9749
	R2408385-001	Co (230.786 nm)	0.0000	78.17	4.1659
	R2408385-001	Cr (267.716 nm)	0.0010	7.11	62.9646

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408385-001	Cu (327.395 nm)	0.0000 u	> 100.00	3.6555
	R2408385-001	Fe (234.350 nm)	4.7255	1.98	108129.2935
	R2408385-001	K (766.491 nm)	1.1201	2.87	2201.5191
	R2408385-001	Mg (279.078 nm)	14.2703	1.89	60720.0004
	R2408385-001	Mn (257.610 nm)	1.7801 o	2.00	632799.5290
	R2408385-001	Mo (202.032 nm)	0.0052	8.85	63.3509
	R2408385-001	Na (588.995 nm)	51.8508	2.45	843159.5540
	R2408385-001	Ni (230.299 nm)	0.0176	2.54	227.2798
	R2408385-001	Pb (220.353 nm)	0.0022	33.80	14.3777
	R2408385-001	Sb (217.582 nm)	0.0084	15.66	19.2685
	R2408385-001	Se (196.026 nm)	0.0029 u	> 100.00	6.3672
	R2408385-001	Si (252.851 nm)	5.2840	2.17	35292.2570
	R2408385-001	Sn (189.925 nm)	0.0026	26.13	14.2950
	R2408385-001	Sr (216.596 nm)	0.5489	1.93	10686.3938
	R2408385-001	Ti (336.122 nm)	0.0054	14.35	943.2293
	R2408385-001	Tl (190.794 nm)	0.0048	26.88	1.6138
	R2408385-001	V (292.401 nm)	0.0008	25.14	42.9743
	R2408385-001	Y (360.074 nm)	0.96	2.09	605310.05
	R2408385-001	Y_R (360.074 nm)	0.96	2.09	609067.62
	R2408385-001	Zn (213.857 nm)	0.0027	1.86	182.6148
9/4/2024 22:34:32	R2408385-002	Ag (328.068 nm)	0.0000 u	> 100.00	14.3240
	R2408385-002	Al (237.312 nm)	0.0246	4.57	53.8286
	R2408385-002	As (188.980 nm)	-0.0006 u	> 100.00	-3.7601
	R2408385-002	B (249.772 nm)	0.0093	0.68	515.7702
	R2408385-002	Ba (230.424 nm)	0.0300	0.57	1837.3195
	R2408385-002	Be (313.107 nm)	0.0000	9.40	26.7183
	R2408385-002	Ca (317.933 nm)	14.8442	0.06	578758.8793
	R2408385-002	Cd (214.439 nm)	0.0001	32.53	19.0514
	R2408385-002	Co (230.786 nm)	0.0003	42.22	9.0284
	R2408385-002	Cr (267.716 nm)	0.0006	17.73	42.4572
	R2408385-002	Cu (327.395 nm)	0.0002	41.18	9.9611
	R2408385-002	Fe (234.350 nm)	0.0153	10.04	650.0908
	R2408385-002	K (766.491 nm)	0.5752	6.44	1483.6608
	R2408385-002	Mg (279.078 nm)	4.4229	0.12	18821.9442
	R2408385-002	Mn (257.610 nm)	0.1236	0.09	43975.1344
	R2408385-002	Mo (202.032 nm)	0.0012	39.41	21.4507
	R2408385-002	Na (588.995 nm)	21.1670	0.38	335754.6998
	R2408385-002	Ni (230.299 nm)	0.0189	0.39	244.4704
	R2408385-002	Pb (220.353 nm)	-0.0003 u	> 100.00	1.9603
	R2408385-002	Sb (217.582 nm)	0.0056	27.10	12.6785
	R2408385-002	Se (196.026 nm)	-0.0030 u	> 100.00	2.5953
	R2408385-002	Si (252.851 nm)	4.1389	0.13	27672.2281
	R2408385-002	Sn (189.925 nm)	0.0003 u	> 100.00	8.1754
	R2408385-002	Sr (216.596 nm)	0.0726	0.45	1418.7316
	R2408385-002	Ti (336.122 nm)	0.0010	42.18	246.4496
	R2408385-002	Tl (190.794 nm)	0.0011 u	> 100.00	-1.8336
	R2408385-002	V (292.401 nm)	0.0002	39.89	17.2439
	R2408385-002	Y (360.074 nm)	1.00	0.44	634985.50
	R2408385-002	Y_R (360.074 nm)	1.00	0.45	639009.47
	R2408385-002	Zn (213.857 nm)	0.0046	0.97	300.1341
9/4/2024 22:37:47	R2408385-003	Ag (328.068 nm)	0.0001 u	> 100.00	18.6605
	R2408385-003	Al (237.312 nm)	0.0015	43.75	-8.0201
	R2408385-003	As (188.980 nm)	0.0003 u	> 100.00	-2.1893
	R2408385-003	B (249.772 nm)	0.0205	0.59	1003.6242
	R2408385-003	Ba (230.424 nm)	0.0814	0.24	4968.2237
	R2408385-003	Be (313.107 nm)	0.0000 u	52.22	-17.9748
	R2408385-003	Ca (317.933 nm)	112.8666 o	0.30	4379005.9663

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408385-003	Cd (214.439 nm)	0.0000 u	> 100.00	14.1580
	R2408385-003	Co (230.786 nm)	-0.0002 u	10.56	-0.9662
	R2408385-003	Cr (267.716 nm)	0.0005	21.13	33.2420
	R2408385-003	Cu (327.395 nm)	0.0001 u	> 100.00	6.2552
	R2408385-003	Fe (234.350 nm)	-0.0035 u	17.60	221.1678
	R2408385-003	K (766.491 nm)	3.1546	1.11	4881.9386
	R2408385-003	Mg (279.078 nm)	21.2797	0.25	90543.1406
	R2408385-003	Mn (257.610 nm)	0.0008	0.82	321.9576
	R2408385-003	Mo (202.032 nm)	0.0007	63.82	15.4230
	R2408385-003	Na (588.995 nm)	245.2839 o	0.65	4041877.2510
	R2408385-003	Ni (230.299 nm)	0.0133	0.60	171.5040
	R2408385-003	Pb (220.353 nm)	-0.0009 u	41.44	-1.4399
	R2408385-003	Sb (217.582 nm)	0.0051	48.63	11.4234
	R2408385-003	Se (196.026 nm)	-0.0035 u	> 100.00	2.2597
	R2408385-003	Si (252.851 nm)	3.8553	0.17	25784.4775
	R2408385-003	Sn (189.925 nm)	0.0000 u	> 100.00	7.4584
	R2408385-003	Sr (216.596 nm)	0.4094	0.32	7972.0468
	R2408385-003	Ti (336.122 nm)	0.0004	82.58	146.1859
	R2408385-003	Tl (190.794 nm)	0.0017	> 100.00	-1.3051
	R2408385-003	V (292.401 nm)	0.0001	16.86	15.5881
	R2408385-003	Y (360.074 nm)	0.93	0.29	586519.11
	R2408385-003	Y_R (360.074 nm)	0.93	0.29	590056.17
	R2408385-003	Zn (213.857 nm)	0.0013	1.73	99.0600
9/4/2024 22:41:01	R2408385-004	Ag (328.068 nm)	0.0001 u	> 100.00	18.8568
	R2408385-004	Al (237.312 nm)	0.0038	26.90	-1.8926
	R2408385-004	As (188.980 nm)	0.0026	4.24	1.8754
	R2408385-004	B (249.772 nm)	0.0643	0.22	2908.3515
	R2408385-004	Ba (230.424 nm)	0.0186	0.10	1144.4104
	R2408385-004	Be (313.107 nm)	0.0000 u	84.41	-17.4488
	R2408385-004	Ca (317.933 nm)	45.5070	0.11	1767527.3960
	R2408385-004	Cd (214.439 nm)	0.0000 u	> 100.00	13.6050
	R2408385-004	Co (230.786 nm)	-0.0001 u	64.34	1.1258
	R2408385-004	Cr (267.716 nm)	0.0006	8.69	37.6134
	R2408385-004	Cu (327.395 nm)	0.0001	77.48	8.0246
	R2408385-004	Fe (234.350 nm)	0.0009	34.94	322.2410
	R2408385-004	K (766.491 nm)	4.2611	0.88	6339.7373
	R2408385-004	Mg (279.078 nm)	5.5828	0.10	23757.2406
	R2408385-004	Mn (257.610 nm)	0.0431	0.15	15350.6936
	R2408385-004	Mo (202.032 nm)	0.0014	14.27	22.8401
	R2408385-004	Na (588.995 nm)	31.1450	0.41	500756.8294
	R2408385-004	Ni (230.299 nm)	0.0105	1.62	136.3146
	R2408385-004	Pb (220.353 nm)	-0.0006 u	> 100.00	0.1153
	R2408385-004	Sb (217.582 nm)	0.0737	0.95	175.0973
	R2408385-004	Se (196.026 nm)	0.0014 u	> 100.00	5.4448
	R2408385-004	Si (252.851 nm)	3.1941	0.14	21384.3261
	R2408385-004	Sn (189.925 nm)	-0.0004 u	> 100.00	6.4054
	R2408385-004	Sr (216.596 nm)	0.1592	0.20	3103.3871
	R2408385-004	Ti (336.122 nm)	0.0004	65.98	149.9474
	R2408385-004	Tl (190.794 nm)	0.0005 u	> 100.00	-2.4236
	R2408385-004	V (292.401 nm)	0.0000 u	> 100.00	10.5345
	R2408385-004	Y (360.074 nm)	0.99	0.37	625732.68
	R2408385-004	Y_R (360.074 nm)	0.99	0.37	629658.93
	R2408385-004	Zn (213.857 nm)	0.0016	2.50	115.3820
9/4/2024 22:44:14	R2408385-005	Ag (328.068 nm)	0.0001 u	> 100.00	16.0435
	R2408385-005	Al (237.312 nm)	0.0085	11.39	10.8313
	R2408385-005	As (188.980 nm)	0.0001 u	> 100.00	-2.5202
	R2408385-005	B (249.772 nm)	0.0145	1.91	742.0137

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408385-005	Ba (230.424 nm)	0.1219	1.97	7436.4576
	R2408385-005	Be (313.107 nm)	0.0000	28.88	0.7147
	R2408385-005	Ca (317.933 nm)	109.6951 o	2.03	4256048.9273
	R2408385-005	Cd (214.439 nm)	0.0000 u	> 100.00	12.0580
	R2408385-005	Co (230.786 nm)	0.0000 u	> 100.00	3.9483
	R2408385-005	Cr (267.716 nm)	0.0005	18.50	34.1384
	R2408385-005	Cu (327.395 nm)	0.0000 u	> 100.00	0.9489
	R2408385-005	Fe (234.350 nm)	0.0097	1.01	523.1345
	R2408385-005	K (766.491 nm)	1.3609	2.14	2518.8318
	R2408385-005	Mg (279.078 nm)	14.6602	2.07	62378.9806
	R2408385-005	Mn (257.610 nm)	0.2301	2.05	81827.5475
	R2408385-005	Mo (202.032 nm)	0.0007	5.76	15.4034
	R2408385-005	Na (588.995 nm)	44.9314	2.38	728736.5514
	R2408385-005	Ni (230.299 nm)	0.0178	4.20	230.2090
	R2408385-005	Pb (220.353 nm)	-0.0002 u	> 100.00	2.0767
	R2408385-005	Sb (217.582 nm)	0.0044	24.99	9.7689
	R2408385-005	Se (196.026 nm)	-0.0040 u	97.29	1.9757
	R2408385-005	Si (252.851 nm)	5.2242	2.21	34894.0425
	R2408385-005	Sn (189.925 nm)	-0.0007 u	> 100.00	5.6211
	R2408385-005	Sr (216.596 nm)	0.3792	2.07	7383.7635
	R2408385-005	Ti (336.122 nm)	0.0003	57.42	141.7545
	R2408385-005	Tl (190.794 nm)	0.0022	41.09	-0.8400
	R2408385-005	V (292.401 nm)	0.0002	26.10	17.0464
	R2408385-005	Y (360.074 nm)	0.96	2.23	604939.68
	R2408385-005	Y_R (360.074 nm)	0.95	2.23	608722.75
	R2408385-005	Zn (213.857 nm)	0.0015	6.13	108.1710
9/4/2024 22:47:28	Continuing Calibration Verification1	Ag (328.068 nm)	0.5031	0.06	31605.9741
	Continuing Calibration Verification1	Al (237.312 nm)	9.6337	0.13	25707.9864
	Continuing Calibration Verification1	As (188.980 nm)	0.9687	0.20	1706.5294
	Continuing Calibration Verification1	B (249.772 nm)	2.2656	0.18	98682.2854
	Continuing Calibration Verification1	Ba (230.424 nm)	9.7413	0.33	593460.9335
	Continuing Calibration Verification1	Be (313.107 nm)	0.2458	0.21	302250.2329
	Continuing Calibration Verification1	Ca (317.933 nm)	25.5267	0.20	992909.1904
	Continuing Calibration Verification1	Cd (214.439 nm)	0.4968	0.22	31364.1351
	Continuing Calibration Verification1	Co (230.786 nm)	2.4660	0.36	52140.3942
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5120	0.25	30847.6477
	Continuing Calibration Verification1	Cu (327.395 nm)	1.2077	0.16	58488.7018
	Continuing Calibration Verification1	Fe (234.350 nm)	4.9612	0.21	113506.1738
	Continuing Calibration Verification1	K (766.491 nm)	23.9411	0.28	32267.9128
	Continuing Calibration Verification1	Mg (279.078 nm)	25.4863	0.22	108441.0501
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7324	0.19	260384.8962
	Continuing Calibration Verification1	Mo (202.032 nm)	2.5472	0.34	27177.8205
	Continuing Calibration Verification1	Na (588.995 nm)	24.1670	0.34	385364.7875
	Continuing Calibration Verification1	Ni (230.299 nm)	2.0028	0.21	25723.5803
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5079	0.21	2533.2234
	Continuing Calibration Verification1	Sb (217.582 nm)	4.8480	0.12	11566.4731
	Continuing Calibration Verification1	Se (196.026 nm)	0.4744	1.22	309.2191
	Continuing Calibration Verification1	Si (252.851 nm)	9.7551 Q	1.39	65045.4164 Q
	Continuing Calibration Verification1	Sn (189.925 nm)	5.0642	0.19	13548.9114
	Continuing Calibration Verification1	Sr (216.596 nm)	2.4964	0.48	48578.0889
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5638	0.11	406689.0901
	Continuing Calibration Verification1	Tl (190.794 nm)	0.9984	0.75	924.2779
	Continuing Calibration Verification1	V (292.401 nm)	2.5211	0.12	96904.3387
	Continuing Calibration Verification1	Y (360.074 nm)	0.97	0.50	616762.51
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.97	0.50	620686.36
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9927	0.40	60181.1811
9/4/2024 22:50:43	Continuing Calibration Blank1	Ag (328.068 nm)	0.0001 u	> 100.00	15.8760

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank1	Al (237.312 nm)	0.0004 u	> 100.00	-10.8180
	Continuing Calibration Blank1	As (188.980 nm)	0.0010 u	> 100.00	-0.8672
	Continuing Calibration Blank1	B (249.772 nm)	0.0001 u	> 100.00	115.8505
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0006	11.00	46.6058
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000	21.86	-10.0521
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0023	7.39	3348.2938
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000 u	> 100.00	12.0039
	Continuing Calibration Blank1	Co (230.786 nm)	0.0001 u	> 100.00	4.7245
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0000 u	> 100.00	6.1821
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0000 u	> 100.00	1.5261
	Continuing Calibration Blank1	Fe (234.350 nm)	-0.0051 u	21.80	184.5299
	Continuing Calibration Blank1	K (766.491 nm)	0.0248	15.21	758.5198
	Continuing Calibration Blank1	Mg (279.078 nm)	-0.0001 u	> 100.00	3.1270
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0000	5.42	39.6672
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0065	13.12	77.6743
	Continuing Calibration Blank1	Na (588.995 nm)	0.0187	30.43	-13964.7787
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0002 u	> 100.00	3.5838
	Continuing Calibration Blank1	Pb (220.353 nm)	-0.0007 u	84.89	-0.3444
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0127	18.34	29.5776
	Continuing Calibration Blank1	Se (196.026 nm)	-0.0021 u	> 100.00	3.1600
	Continuing Calibration Blank1	Si (252.851 nm)	0.0009 u	> 100.00	135.4580
	Continuing Calibration Blank1	Sn (189.925 nm)	-0.0008 u	50.74	5.1777
	Continuing Calibration Blank1	Sr (216.596 nm)	-0.0001 u	83.07	5.0250
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0067	27.76	1155.6063
	Continuing Calibration Blank1	Tl (190.794 nm)	0.0013	86.03	-1.6153
	Continuing Calibration Blank1	V (292.401 nm)	0.0001 u	> 100.00	14.3469
	Continuing Calibration Blank1	Y (360.074 nm)	1.02	0.22	645647.75
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.02	0.22	649834.42
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0000 u	> 100.00	17.5341
9/4/2024 22:53:57	R2408385-006	Ag (328.068 nm)	0.0002	50.48	23.4616
	R2408385-006	Al (237.312 nm)	0.0155	6.30	29.5538
	R2408385-006	As (188.980 nm)	0.0000 u	> 100.00	-2.5829
	R2408385-006	B (249.772 nm)	0.0275	1.44	1310.8842
	R2408385-006	Ba (230.424 nm)	0.0456	0.84	2789.7429
	R2408385-006	Be (313.107 nm)	0.0000 u	55.58	-15.8981
	R2408385-006	Ca (317.933 nm)	87.0914 o	1.04	3379721.1717
	R2408385-006	Cd (214.439 nm)	0.0000 u	> 100.00	11.7981
	R2408385-006	Co (230.786 nm)	-0.0001 u	38.09	0.4163
	R2408385-006	Cr (267.716 nm)	0.0008	24.97	50.7970
	R2408385-006	Cu (327.395 nm)	0.0008	10.64	41.5496
	R2408385-006	Fe (234.350 nm)	0.0215	3.06	790.4939
	R2408385-006	K (766.491 nm)	1.8878	2.77	3212.9497
	R2408385-006	Mg (279.078 nm)	15.6337	1.06	66520.7863
	R2408385-006	Mn (257.610 nm)	0.0076	1.00	2736.6996
	R2408385-006	Mo (202.032 nm)	0.0018	5.25	27.3882
	R2408385-006	Na (588.995 nm)	124.8993 o	1.16	2051129.5150
	R2408385-006	Ni (230.299 nm)	0.0151	0.22	194.7717
	R2408385-006	Pb (220.353 nm)	0.0005	91.96	5.6398
	R2408385-006	Sb (217.582 nm)	0.0081	20.07	18.6018
	R2408385-006	Se (196.026 nm)	-0.0040 u	13.68	1.9525
	R2408385-006	Si (252.851 nm)	4.0747	0.99	27244.6246
	R2408385-006	Sn (189.925 nm)	-0.0006 u	> 100.00	5.7016
	R2408385-006	Sr (216.596 nm)	0.3286	1.19	6399.1856
	R2408385-006	Ti (336.122 nm)	0.0023	36.11	456.6169
	R2408385-006	Tl (190.794 nm)	0.0009 u	> 100.00	-2.0339
	R2408385-006	V (292.401 nm)	0.0004	54.34	24.8869
	R2408385-006	Y (360.074 nm)	0.95	0.83	601556.18

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408385-006	Y_R (360.074 nm)	0.95	0.83	605351.28
	R2408385-006	Zn (213.857 nm)	0.0034	2.19	223.7062
9/4/2024 22:57:10	R2408385-007	Ag (328.068 nm)	0.0002	69.26	26.6908
	R2408385-007	Al (237.312 nm)	-0.0001 u	> 100.00	-12.3025
	R2408385-007	As (188.980 nm)	-0.0003 u	> 100.00	-3.0922
	R2408385-007	B (249.772 nm)	0.0424	0.32	1956.0103
	R2408385-007	Ba (230.424 nm)	0.0301	0.37	1842.0914
	R2408385-007	Be (313.107 nm)	0.0000 u	> 100.00	-11.2030
	R2408385-007	Ca (317.933 nm)	138.7098 o	0.19	5380923.0252
	R2408385-007	Cd (214.439 nm)	0.0004	9.53	38.1244
	R2408385-007	Co (230.786 nm)	0.0000 u	> 100.00	3.1264
	R2408385-007	Cr (267.716 nm)	0.0003	16.57	22.8224
	R2408385-007	Cu (327.395 nm)	0.0002	58.39	10.7489
	R2408385-007	Fe (234.350 nm)	-0.0029 u	16.20	235.1422
	R2408385-007	K (766.491 nm)	2.1302	0.91	3532.4292
	R2408385-007	Mg (279.078 nm)	24.9729	0.12	106256.9302
	R2408385-007	Mn (257.610 nm)	0.6438	0.15	228888.1706
	R2408385-007	Mo (202.032 nm)	0.0007	54.52	15.7427
	R2408385-007	Na (588.995 nm)	104.0009 o	0.73	1705543.0790
	R2408385-007	Ni (230.299 nm)	0.0160	2.33	206.9974
	R2408385-007	Pb (220.353 nm)	0.0002 u	> 100.00	4.4591
	R2408385-007	Sb (217.582 nm)	0.0045	21.75	10.0941
	R2408385-007	Se (196.026 nm)	-0.0023 u	> 100.00	3.0308
	R2408385-007	Si (252.851 nm)	4.1216	0.18	27557.1149
	R2408385-007	Sn (189.925 nm)	-0.0006 u	> 100.00	5.7632
	R2408385-007	Sr (216.596 nm)	0.9065	0.15	17643.3192
	R2408385-007	Ti (336.122 nm)	0.0008	57.70	210.4839
	R2408385-007	Tl (190.794 nm)	0.0013	31.66	-1.6205
	R2408385-007	V (292.401 nm)	0.0003	28.75	21.7827
	R2408385-007	Y (360.074 nm)	0.95	0.36	600555.32
	R2408385-007	Y_R (360.074 nm)	0.95	0.36	604383.71
	R2408385-007	Zn (213.857 nm)	0.0027	3.39	185.4208
9/4/2024 23:00:24	R2408385-008	Ag (328.068 nm)	0.0002	60.22	23.5106
	R2408385-008	Al (237.312 nm)	0.0411	5.80	97.6835
	R2408385-008	As (188.980 nm)	0.0016 u	> 100.00	0.1056
	R2408385-008	B (249.772 nm)	0.0488	0.50	2237.3053
	R2408385-008	Ba (230.424 nm)	0.0381	0.21	2334.1058
	R2408385-008	Be (313.107 nm)	0.0000 u	> 100.00	-14.0962
	R2408385-008	Ca (317.933 nm)	153.2389 o	0.20	5944205.6314
	R2408385-008	Cd (214.439 nm)	0.0004	4.96	38.9777
	R2408385-008	Co (230.786 nm)	0.0002	79.04	8.1706
	R2408385-008	Cr (267.716 nm)	0.0005	5.48	35.5164
	R2408385-008	Cu (327.395 nm)	0.0009	25.94	45.7662
	R2408385-008	Fe (234.350 nm)	0.0886	0.22	2322.6862
	R2408385-008	K (766.491 nm)	2.3141	0.73	3774.6137
	R2408385-008	Mg (279.078 nm)	28.0808	0.14	119480.1729
	R2408385-008	Mn (257.610 nm)	1.0574	0.11	375900.1268
	R2408385-008	Mo (202.032 nm)	0.0005	62.28	14.2829
	R2408385-008	Na (588.995 nm)	116.2736 o	0.64	1908490.3309
	R2408385-008	Ni (230.299 nm)	0.0166	2.65	214.2072
	R2408385-008	Pb (220.353 nm)	0.0015	62.67	10.9063
	R2408385-008	Sb (217.582 nm)	0.0056	27.51	12.5845
	R2408385-008	Se (196.026 nm)	-0.0020 u	> 100.00	3.2515
	R2408385-008	Si (252.851 nm)	4.3267	0.11	28921.6190
	R2408385-008	Sn (189.925 nm)	0.0002 u	> 100.00	7.8624
	R2408385-008	Sr (216.596 nm)	1.0845	0.07	21106.8194
	R2408385-008	Ti (336.122 nm)	0.0012	27.03	276.8551

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408385-008	Tl (190.794 nm)	0.0024	7.28	-0.6488
	R2408385-008	V (292.401 nm)	0.0002 u	> 100.00	17.9217
	R2408385-008	Y (360.074 nm)	0.94	0.29	597185.26
	R2408385-008	Y_R (360.074 nm)	0.94	0.29	600990.94
	R2408385-008	Zn (213.857 nm)	0.0080	1.06	505.9348
9/4/2024 23:03:37	R2408385-009	Ag (328.068 nm)	0.0012	0.79	85.3651
	R2408385-009	Al (237.312 nm)	0.0050	13.83	1.4268
	R2408385-009	As (188.980 nm)	0.0045	44.65	5.2106
	R2408385-009	B (249.772 nm)	0.2500	0.19	10989.8593
	R2408385-009	Ba (230.424 nm)	0.0115	0.96	709.6289
	R2408385-009	Be (313.107 nm)	0.0000	82.43	2.0461
	R2408385-009	Ca (317.933 nm)	415.7761 o	0.30	16122553.8102
	R2408385-009	Cd (214.439 nm)	0.0006	5.56	50.2783
	R2408385-009	Co (230.786 nm)	0.0520	0.93	1102.9584
	R2408385-009	Cr (267.716 nm)	0.0019	6.05	120.7453
	R2408385-009	Cu (327.395 nm)	0.0017	3.28	85.1613
	R2408385-009	Fe (234.350 nm)	7.8986	0.11	180534.0664
	R2408385-009	K (766.491 nm)	4.6746	0.63	6884.6060
	R2408385-009	Mg (279.078 nm)	101.7910 o	0.27	433097.2624
	R2408385-009	Mn (257.610 nm)	16.1987 o	0.20	5758125.0138
	R2408385-009	Mo (202.032 nm)	0.0002	56.41	10.1223
	R2408385-009	Na (588.995 nm)	344.9621 o	1.04	5690210.8231
	R2408385-009	Ni (230.299 nm)	0.0792	0.25	1018.4841
	R2408385-009	Pb (220.353 nm)	0.0029	28.54	17.6871
	R2408385-009	Sb (217.582 nm)	0.0041	18.76	9.1445
	R2408385-009	Se (196.026 nm)	0.0099	32.93	10.8730
	R2408385-009	Si (252.851 nm)	9.4779	0.12	63200.8346
	R2408385-009	Sn (189.925 nm)	-0.0009 u	38.64	5.0398
	R2408385-009	Sr (216.596 nm)	1.3409	0.26	26095.7366
	R2408385-009	Ti (336.122 nm)	0.0006	51.33	187.8087
	R2408385-009	Tl (190.794 nm)	0.0079	10.60	4.4436
	R2408385-009	V (292.401 nm)	0.0003	69.46	23.4792
	R2408385-009	Y (360.074 nm)	0.88	0.38	557687.40
	R2408385-009	Y_R (360.074 nm)	0.88	0.38	561101.38
	R2408385-009	Zn (213.857 nm)	0.0166	0.70	1024.2057
9/4/2024 23:06:51	R2408385-010	Ag (328.068 nm)	0.0001	> 100.00	20.7027
	R2408385-010	Al (237.312 nm)	1.7205	0.51	4581.4982
	R2408385-010	As (188.980 nm)	-0.0003 u	> 100.00	-3.2152
	R2408385-010	B (249.772 nm)	0.2195	0.08	9664.0038
	R2408385-010	Ba (230.424 nm)	0.0315	0.27	1928.7487
	R2408385-010	Be (313.107 nm)	0.0000	34.65	-0.9891
	R2408385-010	Ca (317.933 nm)	346.6596 o	0.28	13442965.5366
	R2408385-010	Cd (214.439 nm)	0.0009	3.87	69.1147
	R2408385-010	Co (230.786 nm)	0.0025	7.57	55.3291
	R2408385-010	Cr (267.716 nm)	0.0029	1.56	178.2545
	R2408385-010	Cu (327.395 nm)	0.0023	3.52	113.5753
	R2408385-010	Fe (234.350 nm)	1.1838	0.11	27313.7687
	R2408385-010	K (766.491 nm)	3.3088	0.54	5085.0978
	R2408385-010	Mg (279.078 nm)	58.6821 o	0.18	249680.6935
	R2408385-010	Mn (257.610 nm)	1.3070	0.06	464614.6777
	R2408385-010	Mo (202.032 nm)	0.0002 u	> 100.00	10.3070
	R2408385-010	Na (588.995 nm)	203.1075 o	0.87	3344425.2311
	R2408385-010	Ni (230.299 nm)	0.0449	1.49	578.1887
	R2408385-010	Pb (220.353 nm)	0.0018	50.76	12.3531
	R2408385-010	Sb (217.582 nm)	0.0040	47.20	8.9728
	R2408385-010	Se (196.026 nm)	-0.0016 u	> 100.00	3.4985
	R2408385-010	Si (252.851 nm)	11.4197	0.27	76122.5618

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408385-010	Sn (189.925 nm)	-0.0001 u	> 100.00	7.1802
	R2408385-010	Sr (216.596 nm)	2.5577	0.14	49770.2065
	R2408385-010	Ti (336.122 nm)	0.0301	2.18	4868.9054
	R2408385-010	Tl (190.794 nm)	0.0023 u	> 100.00	-0.6846
	R2408385-010	V (292.401 nm)	0.0024	6.56	102.6287
	R2408385-010	Y (360.074 nm)	0.90	0.40	568352.12
	R2408385-010	Y_R (360.074 nm)	0.90	0.40	571920.64
	R2408385-010	Zn (213.857 nm)	0.0117	0.09	727.9948
9/4/2024 23:10:05	R2408385-011	Ag (328.068 nm)	0.0003	47.91	34.3033
	R2408385-011	Al (237.312 nm)	0.0023	30.52	-5.8359
	R2408385-011	As (188.980 nm)	0.0007 u	> 100.00	-1.4535
	R2408385-011	B (249.772 nm)	0.1400	0.32	6203.3733
	R2408385-011	Ba (230.424 nm)	0.0425	0.22	2599.0476
	R2408385-011	Be (313.107 nm)	0.0000	48.03	-10.4073
	R2408385-011	Ca (317.933 nm)	105.8054 o	0.22	4105246.8745
	R2408385-011	Cd (214.439 nm)	0.0003	15.83	27.9096
	R2408385-011	Co (230.786 nm)	0.0018	7.00	41.1806
	R2408385-011	Cr (267.716 nm)	0.0007	12.54	45.1315
	R2408385-011	Cu (327.395 nm)	0.0007	21.49	37.0248
	R2408385-011	Fe (234.350 nm)	0.0722	1.63	1948.4096
	R2408385-011	K (766.491 nm)	3.7036	0.92	5605.3126
	R2408385-011	Mg (279.078 nm)	20.6707	0.23	87952.1011
	R2408385-011	Mn (257.610 nm)	1.4981	0.20	532556.6716
	R2408385-011	Mo (202.032 nm)	0.0001 u	> 100.00	9.7304
	R2408385-011	Na (588.995 nm)	170.0524 o	0.48	2797806.4554
	R2408385-011	Ni (230.299 nm)	0.0186	0.04	240.4051
	R2408385-011	Pb (220.353 nm)	0.0005 u	> 100.00	5.7800
	R2408385-011	Sb (217.582 nm)	0.0035	21.91	7.6698
	R2408385-011	Se (196.026 nm)	-0.0012 u	> 100.00	3.7708
	R2408385-011	Si (252.851 nm)	3.4162	0.20	22862.7587
	R2408385-011	Sn (189.925 nm)	-0.0004 u	> 100.00	6.3402
	R2408385-011	Sr (216.596 nm)	0.4472	0.22	8706.9473
	R2408385-011	Ti (336.122 nm)	0.0003	87.50	137.6549
	R2408385-011	Tl (190.794 nm)	0.0040	55.05	0.8955
	R2408385-011	V (292.401 nm)	0.0000 u	> 100.00	11.1023
	R2408385-011	Y (360.074 nm)	0.93	0.29	588178.37
	R2408385-011	Y_R (360.074 nm)	0.93	0.29	591929.20
	R2408385-011	Zn (213.857 nm)	0.0029	2.36	196.1749
9/4/2024 23:13:18	R2408385-012	Ag (328.068 nm)	0.0003	71.75	32.0306
	R2408385-012	Al (237.312 nm)	0.1121	0.46	287.4134
	R2408385-012	As (188.980 nm)	0.0003 u	> 100.00	-2.1972
	R2408385-012	B (249.772 nm)	0.1204	0.04	5349.8232
	R2408385-012	Ba (230.424 nm)	0.0631	0.35	3851.5041
	R2408385-012	Be (313.107 nm)	0.0000	2.36	-2.8652
	R2408385-012	Ca (317.933 nm)	198.2311 o	0.19	7688515.7981
	R2408385-012	Cd (214.439 nm)	0.0001	36.83	17.8171
	R2408385-012	Co (230.786 nm)	0.0004	27.79	11.2484
	R2408385-012	Cr (267.716 nm)	0.0035	1.93	215.4177
	R2408385-012	Cu (327.395 nm)	0.0013	9.20	64.8633
	R2408385-012	Fe (234.350 nm)	1.2095	0.15	27898.5160
	R2408385-012	K (766.491 nm)	2.4019	0.26	3890.3072
	R2408385-012	Mg (279.078 nm)	39.9055	0.17	169791.2093
	R2408385-012	Mn (257.610 nm)	1.7569 o	0.14	624557.4778
	R2408385-012	Mo (202.032 nm)	0.0011	22.11	19.6267
	R2408385-012	Na (588.995 nm)	115.8383 o	0.36	1901293.1408
	R2408385-012	Ni (230.299 nm)	0.0444	1.17	571.2736
	R2408385-012	Pb (220.353 nm)	0.0029	34.12	17.5742

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408385-012	Sb (217.582 nm)	0.0016 u	> 100.00	3.2612
	R2408385-012	Se (196.026 nm)	-0.0069 u	35.53	0.1093
	R2408385-012	Si (252.851 nm)	4.7314	0.12	31614.8571
	R2408385-012	Sn (189.925 nm)	-0.0004 u	> 100.00	6.2447
	R2408385-012	Sr (216.596 nm)	2.4446	0.35	47570.5323
	R2408385-012	Ti (336.122 nm)	0.0014	16.38	309.0672
	R2408385-012	Tl (190.794 nm)	0.0022	55.81	-0.8615
	R2408385-012	V (292.401 nm)	0.0003	55.47	22.5856
	R2408385-012	Y (360.074 nm)	0.93	0.24	586132.20
	R2408385-012	Y_R (360.074 nm)	0.93	0.24	589851.81
	R2408385-012	Zn (213.857 nm)	0.0051	1.68	328.2621
9/4/2024 23:16:33	R2408385-013	Ag (328.068 nm)	0.0002	7.93	27.2054
	R2408385-013	Al (237.312 nm)	0.0438	0.47	104.8958
	R2408385-013	As (188.980 nm)	0.0016	62.74	0.1070
	R2408385-013	B (249.772 nm)	0.3010	0.05	13207.2961
	R2408385-013	Ba (230.424 nm)	0.0621	0.24	3791.9355
	R2408385-013	Be (313.107 nm)	0.0000 u	> 100.00	-15.1567
	R2408385-013	Ca (317.933 nm)	154.1790 o	0.07	5980651.4924
	R2408385-013	Cd (214.439 nm)	0.0001	54.68	16.3862
	R2408385-013	Co (230.786 nm)	0.0001	66.64	6.3998
	R2408385-013	Cr (267.716 nm)	0.0006	14.35	37.5036
	R2408385-013	Cu (327.395 nm)	0.0001	99.64	7.6554
	R2408385-013	Fe (234.350 nm)	0.5449	0.09	12735.4604
	R2408385-013	K (766.491 nm)	6.7817	0.52	9660.6945
	R2408385-013	Mg (279.078 nm)	26.6454	0.09	113372.6927
	R2408385-013	Mn (257.610 nm)	1.7444 o	0.01	620111.5892
	R2408385-013	Mo (202.032 nm)	0.0004	> 100.00	12.3047
	R2408385-013	Na (588.995 nm)	227.8931 o	0.61	3754293.3100
	R2408385-013	Ni (230.299 nm)	0.0205	3.61	264.4147
	R2408385-013	Pb (220.353 nm)	0.0003 u	> 100.00	4.5976
	R2408385-013	Sb (217.582 nm)	0.0044	16.27	9.8187
	R2408385-013	Se (196.026 nm)	-0.0011 u	> 100.00	3.7998
	R2408385-013	Si (252.851 nm)	5.8830	0.16	39277.9593
	R2408385-013	Sn (189.925 nm)	-0.0008 u	71.53	5.3498
	R2408385-013	Sr (216.596 nm)	0.6648	0.08	12941.8641
	R2408385-013	Ti (336.122 nm)	0.0006	25.27	188.6477
	R2408385-013	Tl (190.794 nm)	0.0032	55.58	0.1279
	R2408385-013	V (292.401 nm)	0.0003	27.05	23.7219
	R2408385-013	Y (360.074 nm)	0.92	0.34	580014.10
	R2408385-013	Y_R (360.074 nm)	0.92	0.34	583564.54
	R2408385-013	Zn (213.857 nm)	0.0020	0.40	139.3707
9/4/2024 23:19:47	Continuing Calibration Verification1	Ag (328.068 nm)	0.5020	0.22	31536.6165
	Continuing Calibration Verification1	Al (237.312 nm)	9.5487	0.24	25481.2148
	Continuing Calibration Verification1	As (188.980 nm)	0.9684	0.49	1706.1089
	Continuing Calibration Verification1	B (249.772 nm)	2.2633	0.18	98581.3063
	Continuing Calibration Verification1	Ba (230.424 nm)	9.7832	0.45	596009.7597
	Continuing Calibration Verification1	Be (313.107 nm)	0.2461	0.13	302728.8851
	Continuing Calibration Verification1	Ca (317.933 nm)	25.6637	0.16	998219.0432
	Continuing Calibration Verification1	Cd (214.439 nm)	0.5006	0.15	31603.8172
	Continuing Calibration Verification1	Co (230.786 nm)	2.4700	0.30	52225.4252
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5136	0.22	30939.2758
	Continuing Calibration Verification1	Cu (327.395 nm)	1.2029	0.52	58254.1685
	Continuing Calibration Verification1	Fe (234.350 nm)	4.9779	0.22	113888.0082
	Continuing Calibration Verification1	K (766.491 nm)	23.6706	0.52	31911.5658
	Continuing Calibration Verification1	Mg (279.078 nm)	25.6546	0.14	109157.0578
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7347	0.12	261188.5106
	Continuing Calibration Verification1	Mo (202.032 nm)	2.5507	0.34	27214.3651

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification1	Na (588.995 nm)	23.8026	0.43	379338.1081
	Continuing Calibration Verification1	Ni (230.299 nm)	2.0100	0.27	25815.9216
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5118	0.58	2552.7884
	Continuing Calibration Verification1	Sb (217.582 nm)	4.8340	0.35	11533.0285
	Continuing Calibration Verification1	Se (196.026 nm)	0.4780	1.09	311.5384
	Continuing Calibration Verification1	Si (252.851 nm)	9.7475 Q	1.20	64994.8211 Q
	Continuing Calibration Verification1	Sn (189.925 nm)	5.0834	0.20	13600.2762
	Continuing Calibration Verification1	Sr (216.596 nm)	2.5105	0.16	48852.1262
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5573	0.29	405654.8265
	Continuing Calibration Verification1	Tl (190.794 nm)	0.9992	0.51	924.9684
	Continuing Calibration Verification1	V (292.401 nm)	2.5232	0.17	96983.3330
	Continuing Calibration Verification1	Y (360.074 nm)	0.95	0.46	604086.83
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.95	0.47	608002.51
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9932	0.22	60209.2488
9/4/2024 23:23:01	Continuing Calibration Blank1	Ag (328.068 nm)	0.0000 u	> 100.00	10.6509
	Continuing Calibration Blank1	Al (237.312 nm)	0.0017	27.09	-7.5421
	Continuing Calibration Blank1	As (188.980 nm)	0.0016	63.69	0.1495
	Continuing Calibration Blank1	B (249.772 nm)	0.0002 u	> 100.00	119.8349
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0008	6.20	56.3504
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000	95.68	1.0031
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0030	6.89	3376.8795
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000 u	93.59	9.1023
	Continuing Calibration Blank1	Co (230.786 nm)	0.0002	17.49	7.9694
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0000 u	93.39	6.3662
	Continuing Calibration Blank1	Cu (327.395 nm)	-0.0001 u	18.24	-1.0674
	Continuing Calibration Blank1	Fe (234.350 nm)	-0.0050 u	17.10	187.5940
	Continuing Calibration Blank1	K (766.491 nm)	0.0404	68.87	779.0435
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0002 u	> 100.00	4.5292
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0000	45.10	42.4942
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0065	16.07	77.7771
	Continuing Calibration Blank1	Na (588.995 nm)	0.0459	20.87	-13514.8422
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0005	8.40	7.8714
	Continuing Calibration Blank1	Pb (220.353 nm)	0.0001 u	> 100.00	3.6332
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0126	4.83	29.3250
	Continuing Calibration Blank1	Se (196.026 nm)	-0.0043 u	61.14	1.7982
	Continuing Calibration Blank1	Si (252.851 nm)	0.0017 u	> 100.00	140.4651
	Continuing Calibration Blank1	Sn (189.925 nm)	-0.0001 u	> 100.00	7.2507
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0001 u	> 100.00	7.8291
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0065	26.92	1122.1096
	Continuing Calibration Blank1	Tl (190.794 nm)	0.0027	56.37	-0.3543
	Continuing Calibration Blank1	V (292.401 nm)	0.0002	59.46	17.4100
	Continuing Calibration Blank1	Y (360.074 nm)	1.00	0.32	633580.59
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.00	0.32	637793.63
	Continuing Calibration Blank1	Zn (213.857 nm)	-0.0001 u	78.44	15.9990
9/4/2024 23:26:16	R2408385-014	Ag (328.068 nm)	0.0001 u	> 100.00	19.6746
	R2408385-014	Al (237.312 nm)	0.1995	0.89	520.6768
	R2408385-014	As (188.980 nm)	0.0002 u	> 100.00	-2.2194
	R2408385-014	B (249.772 nm)	0.1296	0.28	5751.4141
	R2408385-014	Ba (230.424 nm)	0.0535	0.42	3268.9250
	R2408385-014	Be (313.107 nm)	0.0000	> 100.00	-9.2693
	R2408385-014	Ca (317.933 nm)	127.9522 o	0.13	4963861.1324
	R2408385-014	Cd (214.439 nm)	0.0005	7.30	44.1249
	R2408385-014	Co (230.786 nm)	0.0003	51.04	10.2388
	R2408385-014	Cr (267.716 nm)	0.0005	21.17	33.4280
	R2408385-014	Cu (327.395 nm)	0.0005	32.61	23.5066
	R2408385-014	Fe (234.350 nm)	0.2658	0.39	6366.1956
	R2408385-014	K (766.491 nm)	5.6434	0.49	8160.9272

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408385-014	Mg (279.078 nm)	27.7485	0.10	118066.1342
	R2408385-014	Mn (257.610 nm)	0.7722	0.03	274537.0788
	R2408385-014	Mo (202.032 nm)	0.0012	42.60	21.6518
	R2408385-014	Na (588.995 nm)	226.7426 o	0.71	3735266.9947
	R2408385-014	Ni (230.299 nm)	0.0106	1.48	137.8983
	R2408385-014	Pb (220.353 nm)	-0.0003 u	> 100.00	1.5425
	R2408385-014	Sb (217.582 nm)	0.0085	10.42	19.6199
	R2408385-014	Se (196.026 nm)	-0.0027 u	> 100.00	2.7721
	R2408385-014	Si (252.851 nm)	2.6417	0.42	17708.9025
	R2408385-014	Sn (189.925 nm)	-0.0006 u	90.75	5.9071
	R2408385-014	Sr (216.596 nm)	0.4724	0.13	9198.3347
	R2408385-014	Ti (336.122 nm)	0.0035	25.65	646.4701
	R2408385-014	Tl (190.794 nm)	0.0027	85.33	-0.3111
	R2408385-014	V (292.401 nm)	0.0003	75.55	22.8204
	R2408385-014	Y (360.074 nm)	0.92	0.53	582316.29
	R2408385-014	Y_R (360.074 nm)	0.92	0.53	585990.60
	R2408385-014	Zn (213.857 nm)	0.0028	2.26	191.7156
9/4/2024 23:29:31	R2408385-015	Ag (328.068 nm)	0.0006	37.40	50.8390
	R2408385-015	Al (237.312 nm)	0.1001	1.20	255.2920
	R2408385-015	As (188.980 nm)	0.0000 u	> 100.00	-2.6534
	R2408385-015	B (249.772 nm)	0.2399	0.09	10550.9039
	R2408385-015	Ba (230.424 nm)	0.0094	0.64	583.8703
	R2408385-015	Be (313.107 nm)	0.0000	17.69	12.3689
	R2408385-015	Ca (317.933 nm)	277.8220 o	0.28	10774188.0651
	R2408385-015	Cd (214.439 nm)	0.0043	1.50	284.8808
	R2408385-015	Co (230.786 nm)	0.0064	3.02	139.5029
	R2408385-015	Cr (267.716 nm)	0.0011	14.52	68.0253
	R2408385-015	Cu (327.395 nm)	0.0027	2.17	130.4770
	R2408385-015	Fe (234.350 nm)	0.1024	0.63	2637.8537
	R2408385-015	K (766.491 nm)	4.6978	0.14	6915.0811
	R2408385-015	Mg (279.078 nm)	37.0027	0.22	157440.5650
	R2408385-015	Mn (257.610 nm)	6.7564 o	0.19	2401696.0497
	R2408385-015	Mo (202.032 nm)	0.0003	22.35	12.0919
	R2408385-015	Na (588.995 nm)	357.2663 o	0.60	5893680.9738
	R2408385-015	Ni (230.299 nm)	0.0348	0.84	447.5274
	R2408385-015	Pb (220.353 nm)	0.0014	84.43	10.1524
	R2408385-015	Sb (217.582 nm)	0.0051	26.66	11.4156
	R2408385-015	Se (196.026 nm)	0.0048	> 100.00	7.5892
	R2408385-015	Si (252.851 nm)	6.6371	0.11	44296.2588
	R2408385-015	Sn (189.925 nm)	-0.0005 u	> 100.00	6.1339
	R2408385-015	Sr (216.596 nm)	0.8361	0.27	16274.1941
	R2408385-015	Ti (336.122 nm)	0.0005	90.50	175.1060
	R2408385-015	Tl (190.794 nm)	0.0039	93.26	0.7476
	R2408385-015	V (292.401 nm)	0.0001 u	> 100.00	13.9101
	R2408385-015	Y (360.074 nm)	0.89	0.22	564070.49
	R2408385-015	Y_R (360.074 nm)	0.89	0.22	567680.64
	R2408385-015	Zn (213.857 nm)	0.0158	0.39	976.2309
9/4/2024 23:32:47	R2408385-016	Ag (328.068 nm)	0.0003	70.51	31.2923
	R2408385-016	Al (237.312 nm)	-0.0131 u	3.68	-46.9950
	R2408385-016	As (188.980 nm)	0.0002 u	> 100.00	-2.3529
	R2408385-016	B (249.772 nm)	0.6754	0.49	29498.2835
	R2408385-016	Ba (230.424 nm)	0.0162	0.68	999.9146
	R2408385-016	Be (313.107 nm)	0.0000	12.59	-2.9333
	R2408385-016	Ca (317.933 nm)	458.1902 o	0.54	17766914.5757
	R2408385-016	Cd (214.439 nm)	0.0007	18.58	54.9604
	R2408385-016	Co (230.786 nm)	0.0047	2.09	102.6642
	R2408385-016	Cr (267.716 nm)	0.0009	4.94	55.2638

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408385-016	Cu (327.395 nm)	0.0001	29.30	6.0034
	R2408385-016	Fe (234.350 nm)	2.3323	0.41	53518.8549
	R2408385-016	K (766.491 nm)	78.6359 o	0.32	104327.5896
	R2408385-016	Mg (279.078 nm)	67.0593 o	0.53	285323.1125
	R2408385-016	Mn (257.610 nm)	4.7738 o	0.52	1696954.6376
	R2408385-016	Mo (202.032 nm)	0.0011	22.32	20.1651
	R2408385-016	Na (588.995 nm)	703.4235 o	0.83	11617928.4064
	R2408385-016	Ni (230.299 nm)	0.0098	4.12	126.5938
	R2408385-016	Pb (220.353 nm)	0.0007 u	> 100.00	6.9570
	R2408385-016	Sb (217.582 nm)	0.0052	27.93	11.7766
	R2408385-016	Se (196.026 nm)	0.0008 u	> 100.00	5.0328
	R2408385-016	Si (252.851 nm)	1.2477	0.73	8431.8507
	R2408385-016	Sn (189.925 nm)	-0.0005 u	> 100.00	6.1741
	R2408385-016	Sr (216.596 nm)	1.9521	0.51	37987.9343
	R2408385-016	Ti (336.122 nm)	0.0000 u	> 100.00	82.4964
	R2408385-016	Tl (190.794 nm)	0.0034 u	> 100.00	0.3124
	R2408385-016	V (292.401 nm)	0.0004	62.66	27.8282
	R2408385-016	Y (360.074 nm)	0.84	0.41	531869.81
	R2408385-016	Y_R (360.074 nm)	0.84	0.41	535120.91
	R2408385-016	Zn (213.857 nm)	0.0128	0.24	796.7530
9/4/2024 23:36:02	R2408385-017	Ag (328.068 nm)	0.0002 u	98.22	26.4024
	R2408385-017	Al (237.312 nm)	-0.0012 u	> 100.00	-15.1851
	R2408385-017	As (188.980 nm)	0.0136	12.26	21.2674
	R2408385-017	B (249.772 nm)	0.1441	0.15	6381.9390
	R2408385-017	Ba (230.424 nm)	0.0556	0.43	3399.0828
	R2408385-017	Be (313.107 nm)	0.0000 u	> 100.00	-18.0729
	R2408385-017	Ca (317.933 nm)	128.1471 o	0.39	4971416.8534
	R2408385-017	Cd (214.439 nm)	0.0003	27.75	32.2443
	R2408385-017	Co (230.786 nm)	0.0005	51.88	13.8916
	R2408385-017	Cr (267.716 nm)	0.0004	29.15	29.3800
	R2408385-017	Cu (327.395 nm)	0.0000 u	> 100.00	2.5972
	R2408385-017	Fe (234.350 nm)	0.2143	0.66	5190.8115
	R2408385-017	K (766.491 nm)	22.4370	0.20	30286.3576
	R2408385-017	Mg (279.078 nm)	16.3654	0.33	69634.0835
	R2408385-017	Mn (257.610 nm)	1.1356	0.23	403687.7172
	R2408385-017	Mo (202.032 nm)	0.0110	1.76	126.1141
	R2408385-017	Na (588.995 nm)	334.0007 o	0.38	5508947.0520
	R2408385-017	Ni (230.299 nm)	0.0404	1.62	520.4451
	R2408385-017	Pb (220.353 nm)	0.0129	14.29	67.2992
	R2408385-017	Sb (217.582 nm)	0.0043	7.18	9.6219
	R2408385-017	Se (196.026 nm)	-0.0025 u	> 100.00	2.9517
	R2408385-017	Si (252.851 nm)	11.5057	0.12	76695.0068
	R2408385-017	Sn (189.925 nm)	-0.0002 u	> 100.00	6.9130
	R2408385-017	Sr (216.596 nm)	0.7545	0.32	14686.9141
	R2408385-017	Ti (336.122 nm)	0.0003	62.34	140.1259
	R2408385-017	Tl (190.794 nm)	0.0029	32.78	-0.1454
	R2408385-017	V (292.401 nm)	0.0001 u	> 100.00	13.8024
	R2408385-017	Y (360.074 nm)	0.89	0.20	565936.77
	R2408385-017	Y_R (360.074 nm)	0.89	0.21	569476.95
	R2408385-017	Zn (213.857 nm)	0.0115	0.94	716.2353
9/4/2024 23:39:19	R2408385-018	Ag (328.068 nm)	0.0005	57.26	41.4294
	R2408385-018	Al (237.312 nm)	-0.0236 u	4.57	-74.9140
	R2408385-018	As (188.980 nm)	0.0018	86.52	0.5873
	R2408385-018	B (249.772 nm)	0.3582	0.12	15696.8095
	R2408385-018	Ba (230.424 nm)	0.0127	0.45	784.4260
	R2408385-018	Be (313.107 nm)	0.0000	47.33	-5.4374
	R2408385-018	Ca (317.933 nm)	223.6775 o	0.10	8675051.5118

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408385-018	Cd (214.439 nm)	0.0247	0.56	1570.2120
	R2408385-018	Co (230.786 nm)	0.0053	6.31	115.0191
	R2408385-018	Cr (267.716 nm)	0.0008	10.26	49.8871
	R2408385-018	Cu (327.395 nm)	0.0004	67.99	19.3038
	R2408385-018	Fe (234.350 nm)	0.1687	0.24	4151.1658
	R2408385-018	K (766.491 nm)	29.6783	0.09	39826.6670
	R2408385-018	Mg (279.078 nm)	56.7715 o	0.09	241551.4399
	R2408385-018	Mn (257.610 nm)	5.7443 o	0.08	2041951.5888
	R2408385-018	Mo (202.032 nm)	-0.0001 u	> 100.00	7.3432
	R2408385-018	Na (588.995 nm)	571.1717 o	0.72	9430939.1870
	R2408385-018	Ni (230.299 nm)	0.0252	2.10	324.4001
	R2408385-018	Pb (220.353 nm)	0.0015	19.86	10.7515
	R2408385-018	Sb (217.582 nm)	0.0043	85.85	9.7021
	R2408385-018	Se (196.026 nm)	0.0039	92.53	7.0263
	R2408385-018	Si (252.851 nm)	2.6444	0.15	17726.5035
	R2408385-018	Sn (189.925 nm)	-0.0006 u	> 100.00	5.7529
	R2408385-018	Sr (216.596 nm)	0.8731	0.06	16993.9146
	R2408385-018	Ti (336.122 nm)	-0.0001 u	> 100.00	71.1073
	R2408385-018	Tl (190.794 nm)	0.0041	14.16	0.9445
	R2408385-018	V (292.401 nm)	0.0004	9.96	27.8793
	R2408385-018	Y (360.074 nm)	0.86	0.63	547320.35
	R2408385-018	Y_R (360.074 nm)	0.86	0.63	550766.85
	R2408385-018	Zn (213.857 nm)	0.0067	2.38	427.1406
9/4/2024 23:42:34	R2408385-019	Ag (328.068 nm)	0.0015	6.80	106.4094
	R2408385-019	Al (237.312 nm)	-0.0924 u	2.60	-258.7782
	R2408385-019	As (188.980 nm)	0.0013	44.38	-0.3040
	R2408385-019	B (249.772 nm)	0.5858	0.32	25598.0994
	R2408385-019	Ba (230.424 nm)	0.0100	0.68	620.8569
	R2408385-019	Be (313.107 nm)	0.0000	24.95	21.8605
	R2408385-019	Ca (317.933 nm)	344.4325 o	0.45	13356623.6340
	R2408385-019	Cd (214.439 nm)	0.0579	0.54	3667.6653
	R2408385-019	Co (230.786 nm)	0.0210	1.21	447.6406
	R2408385-019	Cr (267.716 nm)	0.0022	4.58	136.5752
	R2408385-019	Cu (327.395 nm)	0.0012	7.50	58.1884
	R2408385-019	Fe (234.350 nm)	0.0120	3.64	574.4165
	R2408385-019	K (766.491 nm)	29.3130	0.24	39345.3798
	R2408385-019	Mg (279.078 nm)	138.7168 o	0.46	590206.8925
	R2408385-019	Mn (257.610 nm)	21.6510 o	0.39	7696257.2657
	R2408385-019	Mo (202.032 nm)	0.0006	47.05	14.9816
	R2408385-019	Na (588.995 nm)	1470.1040 o	1.83	24296184.5154
	R2408385-019	Ni (230.299 nm)	0.0805	0.92	1035.3782
	R2408385-019	Pb (220.353 nm)	0.0056	21.71	31.1243
	R2408385-019	Sb (217.582 nm)	0.0012	29.86	2.2094
	R2408385-019	Se (196.026 nm)	0.0139	59.55	13.4700
	R2408385-019	Si (252.851 nm)	3.8422	0.36	25697.7297
	R2408385-019	Sn (189.925 nm)	-0.0004 u	> 100.00	6.3422
	R2408385-019	Sr (216.596 nm)	1.6541	0.40	32189.6079
	R2408385-019	Ti (336.122 nm)	-0.0002 u	69.03	58.6979
	R2408385-019	Tl (190.794 nm)	0.0082	16.02	4.7415
	R2408385-019	V (292.401 nm)	0.0003	46.61	21.6523
	R2408385-019	Y (360.074 nm)	0.76	1.00	478822.99
	R2408385-019	Y_R (360.074 nm)	0.76	1.00	481627.35
	R2408385-019	Zn (213.857 nm)	0.0408	0.51	2490.2559
9/4/2024 23:45:50	R2408385-020	Ag (328.068 nm)	0.0017	6.28	118.8449
	R2408385-020	Al (237.312 nm)	-0.0897 u	2.95	-251.4369
	R2408385-020	As (188.980 nm)	0.0021 u	> 100.00	0.9949
	R2408385-020	B (249.772 nm)	0.5875	0.05	25674.0717

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408385-020	Ba (230.424 nm)	0.0103	1.46	639.8628
	R2408385-020	Be (313.107 nm)	0.0000	14.69	23.6999
	R2408385-020	Ca (317.933 nm)	344.2299 o	0.29	13348768.5859
	R2408385-020	Cd (214.439 nm)	0.0582	0.38	3683.8554
	R2408385-020	Co (230.786 nm)	0.0219	0.65	467.1889
	R2408385-020	Cr (267.716 nm)	0.0024	2.57	146.0470
	R2408385-020	Cu (327.395 nm)	0.0012	10.57	61.3853
	R2408385-020	Fe (234.350 nm)	0.0184	1.11	719.8680
	R2408385-020	K (766.491 nm)	29.5455	0.54	39651.6483
	R2408385-020	Mg (279.078 nm)	138.9018 o	0.30	590994.0822
	R2408385-020	Mn (257.610 nm)	21.7532 o	0.13	7732567.7705
	R2408385-020	Mo (202.032 nm)	0.0006	98.00	15.2108
	R2408385-020	Na (588.995 nm)	1442.7840 o	0.23	23844405.8125
	R2408385-020	Ni (230.299 nm)	0.0807	0.53	1037.1730
	R2408385-020	Pb (220.353 nm)	0.0079	10.24	42.8007
	R2408385-020	Sb (217.582 nm)	0.0050	12.27	11.2969
	R2408385-020	Se (196.026 nm)	0.0148	30.37	14.0318
	R2408385-020	Si (252.851 nm)	3.8573	0.04	25797.7332
	R2408385-020	Sn (189.925 nm)	-0.0006 u	> 100.00	5.6659
	R2408385-020	Sr (216.596 nm)	1.6561	0.32	32228.0274
	R2408385-020	Ti (336.122 nm)	-0.0002 u	41.55	53.0809
	R2408385-020	Tl (190.794 nm)	0.0080	34.52	4.5839
	R2408385-020	V (292.401 nm)	0.0001	73.10	15.9911
	R2408385-020	Y (360.074 nm)	0.76	0.12	483396.79
	R2408385-020	Y_R (360.074 nm)	0.76	0.13	486244.54
	R2408385-020	Zn (213.857 nm)	0.0409	0.15	2495.7039
9/4/2024 23:49:05	R2408385-020L 5X	Ag (328.068 nm)	0.0003	34.56	33.1025
	R2408385-020L 5X	Al (237.312 nm)	-0.0215 u	7.57	-69.3619
	R2408385-020L 5X	As (188.980 nm)	-0.0002 u	> 100.00	-2.9718
	R2408385-020L 5X	B (249.772 nm)	0.1150	2.79	5115.5390
	R2408385-020L 5X	Ba (230.424 nm)	0.0022	9.21	141.6474
	R2408385-020L 5X	Be (313.107 nm)	0.0000 u	> 100.00	-11.1798
	R2408385-020L 5X	Ca (317.933 nm)	76.9958 o	2.61	2988322.4136
	R2408385-020L 5X	Cd (214.439 nm)	0.0125	2.69	800.2232
	R2408385-020L 5X	Co (230.786 nm)	0.0046	2.89	99.7320
	R2408385-020L 5X	Cr (267.716 nm)	0.0005	22.60	33.7177
	R2408385-020L 5X	Cu (327.395 nm)	0.0001	69.30	4.1063
	R2408385-020L 5X	Fe (234.350 nm)	-0.0042 u	4.58	205.6461
	R2408385-020L 5X	K (766.491 nm)	4.6000	2.23	6786.3202
	R2408385-020L 5X	Mg (279.078 nm)	28.9567	2.68	123206.8461
	R2408385-020L 5X	Mn (257.610 nm)	4.7197 o	2.67	1677735.7756
	R2408385-020L 5X	Mo (202.032 nm)	-0.0001 u	> 100.00	6.8248
	R2408385-020L 5X	Na (588.995 nm)	518.6917 o	2.20	8563101.0260
	R2408385-020L 5X	Ni (230.299 nm)	0.0169	2.43	217.7505
	R2408385-020L 5X	Pb (220.353 nm)	0.0011 u	> 100.00	8.7980
	R2408385-020L 5X	Sb (217.582 nm)	0.0019	24.59	3.7970
	R2408385-020L 5X	Se (196.026 nm)	-0.0022 u	> 100.00	3.0876
	R2408385-020L 5X	Si (252.851 nm)	0.7207	2.45	4924.9929
	R2408385-020L 5X	Sn (189.925 nm)	-0.0011 u	71.98	4.4439
	R2408385-020L 5X	Sr (216.596 nm)	0.3489	2.65	6795.3707
	R2408385-020L 5X	Ti (336.122 nm)	-0.0002 u	75.02	65.4103
	R2408385-020L 5X	Tl (190.794 nm)	0.0037	27.14	0.5492
	R2408385-020L 5X	V (292.401 nm)	0.0001 u	> 100.00	14.3105
	R2408385-020L 5X	Y (360.074 nm)	0.87	2.06	547598.32
	R2408385-020L 5X	Y_R (360.074 nm)	0.86	2.06	551069.49
	R2408385-020L 5X	Zn (213.857 nm)	0.0080	3.31	502.2629
9/4/2024 23:52:19	Continuing Calibration Verification1	Ag (328.068 nm)	0.4966	0.17	31194.7125

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification1	Al (237.312 nm)	9.3825	0.19	25037.4799
	Continuing Calibration Verification1	As (188.980 nm)	0.9625	0.47	1695.7263
	Continuing Calibration Verification1	B (249.772 nm)	2.2426 Q	0.17	97682.2176 Q
	Continuing Calibration Verification1	Ba (230.424 nm)	9.6719	0.13	589229.1106
	Continuing Calibration Verification1	Be (313.107 nm)	0.2442	0.17	300346.8460
	Continuing Calibration Verification1	Ca (317.933 nm)	25.5443	0.21	993590.0524
	Continuing Calibration Verification1	Cd (214.439 nm)	0.4996	0.21	31542.9179
	Continuing Calibration Verification1	Co (230.786 nm)	2.4490	0.11	51781.1520
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5102	0.19	30738.6642
	Continuing Calibration Verification1	Cu (327.395 nm)	1.1783	0.19	57063.8355
	Continuing Calibration Verification1	Fe (234.350 nm)	4.9421	0.25	113071.6257
	Continuing Calibration Verification1	K (766.491 nm)	23.3679	0.11	31512.7792
	Continuing Calibration Verification1	Mg (279.078 nm)	25.5998	0.18	108924.0124
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7295	0.15	259356.1230
	Continuing Calibration Verification1	Mo (202.032 nm)	2.5324	0.51	27019.4385
	Continuing Calibration Verification1	Na (588.995 nm)	23.4062	0.52	372784.4889
	Continuing Calibration Verification1	Ni (230.299 nm)	1.9976	0.25	25656.4187
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5102	0.43	2544.6803
	Continuing Calibration Verification1	Sb (217.582 nm)	4.7764	0.13	11395.6397
	Continuing Calibration Verification1	Se (196.026 nm)	0.4759	0.14	310.1529
	Continuing Calibration Verification1	Si (252.851 nm)	9.6340 Q	1.27	64239.8899 Q
	Continuing Calibration Verification1	Sn (189.925 nm)	5.0719	0.18	13569.4689
	Continuing Calibration Verification1	Sr (216.596 nm)	2.5021	0.08	48688.9242
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5249	0.14	400517.6969
	Continuing Calibration Verification1	Tl (190.794 nm)	1.0021	0.15	927.6418
	Continuing Calibration Verification1	V (292.401 nm)	2.4986	0.20	96038.1409
	Continuing Calibration Verification1	Y (360.074 nm)	0.94	0.44	597087.38
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.94	0.43	601095.39
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9860	0.06	59775.5839
9/4/2024 23:55:33	Continuing Calibration Blank1	Ag (328.068 nm)	0.0001 u	> 100.00	20.5317
	Continuing Calibration Blank1	Al (237.312 nm)	0.0016	36.44	-7.6020
	Continuing Calibration Blank1	As (188.980 nm)	0.0013	54.31	-0.2828
	Continuing Calibration Blank1	B (249.772 nm)	0.0002 u	> 100.00	121.7158
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0008	10.50	57.4361
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000 u	> 100.00	-8.5353
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0034	2.01	3390.8461
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000 u	> 100.00	13.2365
	Continuing Calibration Blank1	Co (230.786 nm)	0.0001 u	> 100.00	5.0200
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0002	48.66	13.1209
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0000 u	> 100.00	3.3451
	Continuing Calibration Blank1	Fe (234.350 nm)	-0.0049 u	15.82	188.3355
	Continuing Calibration Blank1	K (766.491 nm)	0.1972	16.56	985.7076
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0005	38.60	5.8705
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0001	23.84	55.9971
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0070	16.62	82.8435
	Continuing Calibration Blank1	Na (588.995 nm)	0.4698	3.48	-6504.9264
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0006	40.05	9.0775
	Continuing Calibration Blank1	Pb (220.353 nm)	-0.0005 u	> 100.00	0.5589
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0128	6.82	29.8938
	Continuing Calibration Blank1	Se (196.026 nm)	-0.0041 u	6.41	1.9199
	Continuing Calibration Blank1	Si (252.851 nm)	0.0006 u	> 100.00	133.0703
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0003 u	> 100.00	8.1623
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0003	10.31	11.9466
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0067	26.58	1155.4317
	Continuing Calibration Blank1	Tl (190.794 nm)	0.0017	31.36	-1.2810
	Continuing Calibration Blank1	V (292.401 nm)	0.0004	38.59	26.1735
	Continuing Calibration Blank1	Y (360.074 nm)	0.98	0.22	623165.73

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank1	Y_R (360.074 nm)	0.98	0.23	627462.76
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0000 u	> 100.00	20.8037
9/4/2024 23:58:49	PBW-444003	Ag (328.068 nm)	0.0000 u	> 100.00	13.1283
	PBW-444003	Al (237.312 nm)	0.0006 u	> 100.00	-10.4158
	PBW-444003	As (188.980 nm)	0.0002 u	> 100.00	-2.2814
	PBW-444003	B (249.772 nm)	0.0014	6.26	174.0151
	PBW-444003	Ba (230.424 nm)	0.0001	35.87	17.8991
	PBW-444003	Be (313.107 nm)	0.0000 u	> 100.00	-13.2697
	PBW-444003	Ca (317.933 nm)	0.0335	0.18	4559.3599
	PBW-444003	Cd (214.439 nm)	0.0000 u	> 100.00	10.8410
	PBW-444003	Co (230.786 nm)	0.0000 u	> 100.00	3.1611
	PBW-444003	Cr (267.716 nm)	0.0003	5.93	18.7695
	PBW-444003	Cu (327.395 nm)	0.0000 u	> 100.00	0.8389
	PBW-444003	Fe (234.350 nm)	-0.0063 u	8.43	157.3094
	PBW-444003	K (766.491 nm)	0.1380	8.35	907.6618
	PBW-444003	Mg (279.078 nm)	0.0034	24.76	18.2511
	PBW-444003	Mn (257.610 nm)	0.0000 u	> 100.00	33.5215
	PBW-444003	Mo (202.032 nm)	0.0015	26.93	24.1587
	PBW-444003	Na (588.995 nm)	0.4159	3.01	-7396.4816
	PBW-444003	Ni (230.299 nm)	0.0003 u	> 100.00	4.5508
	PBW-444003	Pb (220.353 nm)	-0.0004 u	> 100.00	1.1169
	PBW-444003	Sb (217.582 nm)	0.0065	14.56	14.8223
	PBW-444003	Se (196.026 nm)	-0.0040 u	28.96	1.9378
	PBW-444003	Si (252.851 nm)	0.0030 u	> 100.00	149.4580
	PBW-444003	Sn (189.925 nm)	-0.0005 u	> 100.00	6.1607
	PBW-444003	Sr (216.596 nm)	0.0005	20.68	16.9693
	PBW-444003	Ti (336.122 nm)	0.0023	37.34	449.7089
	PBW-444003	Tl (190.794 nm)	0.0015 u	98.63	-1.4400
	PBW-444003	V (292.401 nm)	-0.0001 u	53.70	5.6784
	PBW-444003	Y (360.074 nm)	1.00	0.30	632943.30
	PBW-444003	Y_R (360.074 nm)	1.00	0.30	637325.62
	PBW-444003	Zn (213.857 nm)	0.0000 u	> 100.00	22.1211
9/5/2024 00:02:04	LCSW-444003	Ag (328.068 nm)	0.0472	0.25	2973.3465
	LCSW-444003	Al (237.312 nm)	1.8287	0.29	4870.2430
	LCSW-444003	As (188.980 nm)	0.0357	6.29	60.3967
	LCSW-444003	B (249.772 nm)	0.8810	0.09	38441.9547
	LCSW-444003	Ba (230.424 nm)	1.8893	0.20	115107.2906
	LCSW-444003	Be (313.107 nm)	0.0475	0.13	58443.2018
	LCSW-444003	Ca (317.933 nm)	1.9590	0.10	79210.0382
	LCSW-444003	Cd (214.439 nm)	0.0494	0.16	3127.3742
	LCSW-444003	Co (230.786 nm)	0.4808	0.21	10167.8953
	LCSW-444003	Cr (267.716 nm)	0.1944	0.06	11711.2588
	LCSW-444003	Cu (327.395 nm)	0.2354	0.22	11399.1915
	LCSW-444003	Fe (234.350 nm)	0.9678	0.11	22385.4200
	LCSW-444003	K (766.491 nm)	17.5154	0.09	23802.1971
	LCSW-444003	Mg (279.078 nm)	1.9163	0.21	8156.8939
	LCSW-444003	Mn (257.610 nm)	0.4644	0.06	165097.4563
	LCSW-444003	Mo (202.032 nm)	0.4685	0.83	5005.6978
	LCSW-444003	Na (588.995 nm)	18.0202	0.34	283718.3344
	LCSW-444003	Ni (230.299 nm)	0.4792	0.16	6155.6881
	LCSW-444003	Pb (220.353 nm)	0.5108	0.21	2547.7678
	LCSW-444003	Sb (217.582 nm)	0.4641	0.89	1106.5863
	LCSW-444003	Se (196.026 nm)	0.9432	1.45	610.3056
	LCSW-444003	Si (252.851 nm)	0.2793	0.73	1988.0540
	LCSW-444003	Sn (189.925 nm)	4.8528	0.08	12983.7357
	LCSW-444003	Sr (216.596 nm)	1.9479	0.12	37906.9017
	LCSW-444003	Ti (336.122 nm)	0.4753	0.20	75470.5518

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	LCSW-444003	Tl (190.794 nm)	1.9247	0.19	1784.3737
	LCSW-444003	V (292.401 nm)	0.4747	0.19	18256.5331
	LCSW-444003	Y (360.074 nm)	0.97	0.43	614547.87
	LCSW-444003	Y_R (360.074 nm)	0.97	0.43	618800.39
	LCSW-444003	Zn (213.857 nm)	0.4872	0.14	29546.6187
9/5/2024 00:05:20	DLCSW-444003	Ag (328.068 nm)	0.0474	0.09	2986.9999
	DLCSW-444003	Al (237.312 nm)	1.8348	0.15	4886.4637
	DLCSW-444003	As (188.980 nm)	0.0353	1.78	59.5943
	DLCSW-444003	B (249.772 nm)	0.8870	0.16	38704.6998
	DLCSW-444003	Ba (230.424 nm)	1.8976	0.28	115613.6944
	DLCSW-444003	Be (313.107 nm)	0.0478	0.07	58729.9490
	DLCSW-444003	Ca (317.933 nm)	2.0156	0.11	81402.2258
	DLCSW-444003	Cd (214.439 nm)	0.0496	0.04	3143.2195
	DLCSW-444003	Co (230.786 nm)	0.4829	0.09	10212.5148
	DLCSW-444003	Cr (267.716 nm)	0.1952	0.10	11762.1448
	DLCSW-444003	Cu (327.395 nm)	0.2364	0.14	11449.5450
	DLCSW-444003	Fe (234.350 nm)	0.9732	0.05	22507.3251
	DLCSW-444003	K (766.491 nm)	17.6312	0.12	23954.6670
	DLCSW-444003	Mg (279.078 nm)	1.9357	0.08	8239.5378
	DLCSW-444003	Mn (257.610 nm)	0.4662	0.11	165757.8237
	DLCSW-444003	Mo (202.032 nm)	0.4751	0.77	5075.5769
	DLCSW-444003	Na (588.995 nm)	18.1918	0.13	286555.6737
	DLCSW-444003	Ni (230.299 nm)	0.4807	0.09	6175.6153
	DLCSW-444003	Pb (220.353 nm)	0.5129	0.51	2558.0203
	DLCSW-444003	Sb (217.582 nm)	0.4672	0.84	1113.9846
	DLCSW-444003	Se (196.026 nm)	0.9501	0.65	614.7260
	DLCSW-444003	Si (252.851 nm)	0.2811	1.07	1999.9352
	DLCSW-444003	Sn (189.925 nm)	4.8726	0.09	13036.6640
	DLCSW-444003	Sr (216.596 nm)	1.9520	0.08	37986.0295
	DLCSW-444003	Ti (336.122 nm)	0.4782	0.01	75921.6412
	DLCSW-444003	Tl (190.794 nm)	1.9363	0.19	1795.1476
	DLCSW-444003	V (292.401 nm)	0.4760	0.10	18304.5229
	DLCSW-444003	Y (360.074 nm)	0.97	0.46	616802.59
	DLCSW-444003	Y_R (360.074 nm)	0.97	0.46	621006.18
	DLCSW-444003	Zn (213.857 nm)	0.4897	0.06	29694.6376
9/5/2024 00:08:35	R2408247-002 10X	Ag (328.068 nm)	0.0001 u	> 100.00	16.4250
	R2408247-002 10X	Al (237.312 nm)	0.0349	2.88	81.2621
	R2408247-002 10X	As (188.980 nm)	-0.0002 u	> 100.00	-3.0283
	R2408247-002 10X	B (249.772 nm)	0.0054	7.13	346.5419
	R2408247-002 10X	Ba (230.424 nm)	0.0024	1.10	153.4521
	R2408247-002 10X	Be (313.107 nm)	0.0000 u	> 100.00	-14.9856
	R2408247-002 10X	Ca (317.933 nm)	37.3189	2.30	1450083.8041
	R2408247-002 10X	Cd (214.439 nm)	0.0000 u	> 100.00	9.8602
	R2408247-002 10X	Co (230.786 nm)	-0.0001 u	> 100.00	2.2362
	R2408247-002 10X	Cr (267.716 nm)	0.0002	75.12	12.9679
	R2408247-002 10X	Cu (327.395 nm)	0.0000	> 100.00	3.5518
	R2408247-002 10X	Fe (234.350 nm)	0.0314	2.23	1017.7214
	R2408247-002 10X	K (766.491 nm)	0.3991	10.48	1251.6452
	R2408247-002 10X	Mg (279.078 nm)	12.1982	2.41	51903.6409
	R2408247-002 10X	Mn (257.610 nm)	0.0501	2.40	17855.0439
	R2408247-002 10X	Mo (202.032 nm)	0.0047	19.02	58.7813
	R2408247-002 10X	Na (588.995 nm)	2.8197	2.32	32353.2876
	R2408247-002 10X	Ni (230.299 nm)	0.0033	5.03	43.6177
	R2408247-002 10X	Pb (220.353 nm)	-0.0004 u	49.21	1.4557
	R2408247-002 10X	Sb (217.582 nm)	0.0074	24.31	17.0424
	R2408247-002 10X	Se (196.026 nm)	0.0000 u	> 100.00	4.5113
	R2408247-002 10X	Si (252.851 nm)	0.6796	2.23	4651.3765

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408247-002 10X	Sn (189.925 nm)	0.0012	62.91	10.6241
	R2408247-002 10X	Sr (216.596 nm)	0.1857	2.36	3618.7882
	R2408247-002 10X	Ti (336.122 nm)	0.0027	25.64	511.7606
	R2408247-002 10X	Tl (190.794 nm)	0.0028	37.34	-0.2735
	R2408247-002 10X	V (292.401 nm)	0.0001	82.40	14.9805
	R2408247-002 10X	Y (360.074 nm)	0.97	0.34	615691.15
	R2408247-002 10X	Y_R (360.074 nm)	0.97	0.34	619840.03
	R2408247-002 10X	Zn (213.857 nm)	0.0014	11.14	106.2202
9/5/2024 00:11:50	R2408247-003 10X	Ag (328.068 nm)	0.0001 u	> 100.00	18.5819
	R2408247-003 10X	Al (237.312 nm)	0.0173	4.22	34.1557
	R2408247-003 10X	As (188.980 nm)	0.0005	75.48	-1.7384
	R2408247-003 10X	B (249.772 nm)	0.0238	0.36	1146.7183
	R2408247-003 10X	Ba (230.424 nm)	0.0045	0.72	283.7129
	R2408247-003 10X	Be (313.107 nm)	0.0000 u	> 100.00	-13.1440
	R2408247-003 10X	Ca (317.933 nm)	36.4709	0.10	1417207.2031
	R2408247-003 10X	Cd (214.439 nm)	0.0000 u	> 100.00	10.1577
	R2408247-003 10X	Co (230.786 nm)	-0.0002 u	80.09	0.0409
	R2408247-003 10X	Cr (267.716 nm)	0.0001 u	> 100.00	9.3419
	R2408247-003 10X	Cu (327.395 nm)	0.0001 u	> 100.00	4.8536
	R2408247-003 10X	Fe (234.350 nm)	0.0114	1.49	561.2922
	R2408247-003 10X	K (766.491 nm)	0.4900	7.04	1371.4641
	R2408247-003 10X	Mg (279.078 nm)	12.0869	0.12	51430.4166
	R2408247-003 10X	Mn (257.610 nm)	0.0011	1.48	425.0560
	R2408247-003 10X	Mo (202.032 nm)	0.0012	27.65	21.7201
	R2408247-003 10X	Na (588.995 nm)	3.0554	0.33	36252.0976
	R2408247-003 10X	Ni (230.299 nm)	0.0022	9.21	29.1745
	R2408247-003 10X	Pb (220.353 nm)	-0.0007 u	90.39	-0.2569
	R2408247-003 10X	Sb (217.582 nm)	0.0039	34.64	8.5415
	R2408247-003 10X	Se (196.026 nm)	-0.0035 u	32.08	2.2816
	R2408247-003 10X	Si (252.851 nm)	0.5297	0.30	3654.4607
	R2408247-003 10X	Sn (189.925 nm)	-0.0004 u	> 100.00	6.3906
	R2408247-003 10X	Sr (216.596 nm)	1.1331	0.10	22052.7519
	R2408247-003 10X	Ti (336.122 nm)	0.0010	33.25	242.7642
	R2408247-003 10X	Tl (190.794 nm)	0.0025	32.66	-0.5196
	R2408247-003 10X	V (292.401 nm)	0.0001 u	> 100.00	13.1690
	R2408247-003 10X	Y (360.074 nm)	0.97	0.41	614100.16
	R2408247-003 10X	Y_R (360.074 nm)	0.97	0.41	618250.34
	R2408247-003 10X	Zn (213.857 nm)	0.0024	2.14	168.0154
9/5/2024 00:15:05	R2408247-005 10X	Ag (328.068 nm)	0.0001 u	> 100.00	20.3241
	R2408247-005 10X	Al (237.312 nm)	0.0652	2.52	162.0479
	R2408247-005 10X	As (188.980 nm)	-0.0002 u	> 100.00	-2.9182
	R2408247-005 10X	B (249.772 nm)	0.0038	2.77	279.5854
	R2408247-005 10X	Ba (230.424 nm)	0.0023	2.51	153.1472
	R2408247-005 10X	Be (313.107 nm)	0.0000	> 100.00	-5.3362
	R2408247-005 10X	Ca (317.933 nm)	28.9024	2.19	1123781.0151
	R2408247-005 10X	Cd (214.439 nm)	0.0000 u	> 100.00	9.9358
	R2408247-005 10X	Co (230.786 nm)	-0.0001 u	31.15	1.0538
	R2408247-005 10X	Cr (267.716 nm)	0.0002	31.66	15.8653
	R2408247-005 10X	Cu (327.395 nm)	0.0000 u	> 100.00	1.1513
	R2408247-005 10X	Fe (234.350 nm)	0.0546	3.20	1546.0763
	R2408247-005 10X	K (766.491 nm)	0.1984	13.60	987.1898
	R2408247-005 10X	Mg (279.078 nm)	9.2999	2.10	39572.2726
	R2408247-005 10X	Mn (257.610 nm)	0.0022	2.83	824.6685
	R2408247-005 10X	Mo (202.032 nm)	0.0002	95.36	10.8885
	R2408247-005 10X	Na (588.995 nm)	2.3532	1.76	24640.1649
	R2408247-005 10X	Ni (230.299 nm)	0.0029	7.52	38.3026
	R2408247-005 10X	Pb (220.353 nm)	0.0002 u	> 100.00	4.0239

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408247-005 10X	Sb (217.582 nm)	0.0039	36.39	8.7173
	R2408247-005 10X	Se (196.026 nm)	-0.0049 u	19.14	1.3509
	R2408247-005 10X	Si (252.851 nm)	0.8914	1.95	6061.3221
	R2408247-005 10X	Sn (189.925 nm)	-0.0003 u	2.30	6.4800
	R2408247-005 10X	Sr (216.596 nm)	0.0468	2.50	916.1195
	R2408247-005 10X	Ti (336.122 nm)	0.0021	6.86	416.8093
	R2408247-005 10X	Tl (190.794 nm)	0.0022	36.63	-0.7841
	R2408247-005 10X	V (292.401 nm)	0.0004	51.10	25.7772
	R2408247-005 10X	Y (360.074 nm)	0.96	2.14	607647.75
	R2408247-005 10X	Y_R (360.074 nm)	0.96	2.14	611777.80
	R2408247-005 10X	Zn (213.857 nm)	0.0018	3.20	128.1505
9/5/2024 00:18:20	R2408247-006 10X	Ag (328.068 nm)	0.0000 u	> 100.00	14.5461
	R2408247-006 10X	Al (237.312 nm)	0.0735	0.43	184.3849
	R2408247-006 10X	As (188.980 nm)	0.0002 u	> 100.00	-2.2774
	R2408247-006 10X	B (249.772 nm)	0.0036	3.28	268.4048
	R2408247-006 10X	Ba (230.424 nm)	0.0025	5.54	162.7172
	R2408247-006 10X	Be (313.107 nm)	0.0000 u	62.18	-15.9682
	R2408247-006 10X	Ca (317.933 nm)	28.0426	0.13	1090448.2333
	R2408247-006 10X	Cd (214.439 nm)	0.0000 u	> 100.00	12.0333
	R2408247-006 10X	Co (230.786 nm)	0.0000 u	> 100.00	3.9981
	R2408247-006 10X	Cr (267.716 nm)	0.0003	41.35	21.4451
	R2408247-006 10X	Cu (327.395 nm)	0.0001	91.62	5.7745
	R2408247-006 10X	Fe (234.350 nm)	0.0649	0.29	1780.8602
	R2408247-006 10X	K (766.491 nm)	0.2171	20.05	1011.8940
	R2408247-006 10X	Mg (279.078 nm)	8.9967	0.03	38282.4967
	R2408247-006 10X	Mn (257.610 nm)	0.0026	0.93	960.0143
	R2408247-006 10X	Mo (202.032 nm)	0.0006	75.80	14.3183
	R2408247-006 10X	Na (588.995 nm)	2.2710	0.34	23280.4965
	R2408247-006 10X	Ni (230.299 nm)	0.0028	2.61	37.5979
	R2408247-006 10X	Pb (220.353 nm)	-0.0002 u	> 100.00	2.2556
	R2408247-006 10X	Sb (217.582 nm)	0.0043	15.57	9.4929
	R2408247-006 10X	Se (196.026 nm)	-0.0044 u	80.04	1.6898
	R2408247-006 10X	Si (252.851 nm)	0.8842	0.31	6012.9580
	R2408247-006 10X	Sn (189.925 nm)	-0.0007 u	34.53	5.4881
	R2408247-006 10X	Sr (216.596 nm)	0.0445	0.59	872.2493
	R2408247-006 10X	Ti (336.122 nm)	0.0025	5.18	487.7144
	R2408247-006 10X	Tl (190.794 nm)	0.0022	29.48	-0.8476
	R2408247-006 10X	V (292.401 nm)	0.0001 u	> 100.00	15.4265
	R2408247-006 10X	Y (360.074 nm)	0.97	0.35	615975.16
	R2408247-006 10X	Y_R (360.074 nm)	0.97	0.36	620163.22
	R2408247-006 10X	Zn (213.857 nm)	0.0023	2.79	157.1755
9/5/2024 00:21:36	R2408297-007 10X	Ag (328.068 nm)	0.0001 u	> 100.00	17.7849
	R2408297-007 10X	Al (237.312 nm)	0.0031	3.79	-3.6213
	R2408297-007 10X	As (188.980 nm)	0.0001 u	> 100.00	-2.5556
	R2408297-007 10X	B (249.772 nm)	0.0001	47.34	116.4170
	R2408297-007 10X	Ba (230.424 nm)	0.0251	0.40	1538.1393
	R2408297-007 10X	Be (313.107 nm)	0.0000 u	> 100.00	-12.5700
WRONG SAMPLE	R2408297-007 10X	Ca (317.933 nm)	10.1630	0.17	397270.9085
	R2408297-007 10X	Cd (214.439 nm)	0.0000 u	> 100.00	13.4777
	R2408297-007 10X	Co (230.786 nm)	-0.0002 u	71.58	-1.3253
	R2408297-007 10X	Cr (267.716 nm)	0.0001 u	> 100.00	9.6563
	R2408297-007 10X	Cu (327.395 nm)	0.0000 u	> 100.00	1.9071
	R2408297-007 10X	Fe (234.350 nm)	-0.0074 u	2.02	133.1319
	R2408297-007 10X	K (766.491 nm)	0.1115	17.91	872.7580
	R2408297-007 10X	Mg (279.078 nm)	3.2825	0.14	13970.0917
	R2408297-007 10X	Mn (257.610 nm)	0.0007	2.16	270.5778
	R2408297-007 10X	Mo (202.032 nm)	0.0002	58.55	11.0207

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408297-007 10X	Na (588.995 nm)	1.0139	0.47	2492.4045
	R2408297-007 10X	Ni (230.299 nm)	0.0018	16.70	24.4108
	R2408297-007 10X	Pb (220.353 nm)	0.0005 u	> 100.00	5.6742
	R2408297-007 10X	Sb (217.582 nm)	0.0020	31.64	4.0339
	R2408297-007 10X	Se (196.026 nm)	-0.0048 u	59.48	1.4159
	R2408297-007 10X	Si (252.851 nm)	0.5711	0.37	3929.5163
	R2408297-007 10X	Sn (189.925 nm)	-0.0008 u	> 100.00	5.3606
	R2408297-007 10X	Sr (216.596 nm)	0.0316	0.18	620.5961
	R2408297-007 10X	Ti (336.122 nm)	0.0002 u	> 100.00	118.0464
	R2408297-007 10X	Tl (190.794 nm)	0.0017	61.41	-1.2752
	R2408297-007 10X	V (292.401 nm)	0.0000 u	> 100.00	10.7217
	R2408297-007 10X	Y (360.074 nm)	0.98	0.44	622902.67
	R2408297-007 10X	Y_R (360.074 nm)	0.98	0.44	627136.93
	R2408297-007 10X	Zn (213.857 nm)	0.0060	1.18	382.9261
9/5/2024 00:24:51	R2408297-007L 50X	Ag (328.068 nm)	0.0001 u	> 100.00	18.8444
	R2408297-007L 50X	Al (237.312 nm)	0.0009	87.03	-9.4539
	R2408297-007L 50X	As (188.980 nm)	0.0001 u	> 100.00	-2.4638
	R2408297-007L 50X	B (249.772 nm)	-0.0010 u	10.55	68.9624
	R2408297-007L 50X	Ba (230.424 nm)	0.0050	2.44	312.4760
	R2408297-007L 50X	Be (313.107 nm)	0.0000 u	80.83	-14.6626
	R2408297-007L 50X	Ca (317.933 nm)	2.0277	0.06	81873.5068
	R2408297-007L 50X	Cd (214.439 nm)	-0.0001 u	6.44	5.0848
	R2408297-007L 50X	Co (230.786 nm)	0.0000 u	> 100.00	2.4976
	R2408297-007L 50X	Cr (267.716 nm)	0.0000 u	> 100.00	6.2576
	R2408297-007L 50X	Cu (327.395 nm)	0.0000 u	> 100.00	3.6764
	R2408297-007L 50X	Fe (234.350 nm)	-0.0097 u	1.72	80.6255
	R2408297-007L 50X	K (766.491 nm)	0.0340	92.82	770.6280
	R2408297-007L 50X	Mg (279.078 nm)	0.6552	0.07	2791.4248
	R2408297-007L 50X	Mn (257.610 nm)	0.0001	20.88	48.8828
	R2408297-007L 50X	Mo (202.032 nm)	0.0002 u	> 100.00	10.2599
	R2408297-007L 50X	Na (588.995 nm)	0.2624	0.99	-9935.4582
	R2408297-007L 50X	Ni (230.299 nm)	0.0003	49.82	5.5669
	R2408297-007L 50X	Pb (220.353 nm)	-0.0006 u	95.88	0.3105
	R2408297-007L 50X	Sb (217.582 nm)	0.0023	52.79	4.7942
	R2408297-007L 50X	Se (196.026 nm)	-0.0031 u	> 100.00	2.5195
	R2408297-007L 50X	Si (252.851 nm)	0.1080	1.97	848.1486
	R2408297-007L 50X	Sn (189.925 nm)	-0.0006 u	> 100.00	5.7449
	R2408297-007L 50X	Sr (216.596 nm)	0.0062	1.77	127.6562
	R2408297-007L 50X	Ti (336.122 nm)	0.0001 u	> 100.00	101.2069
	R2408297-007L 50X	Tl (190.794 nm)	0.0016	25.90	-1.3623
	R2408297-007L 50X	V (292.401 nm)	-0.0003 u	42.16	1.2722
	R2408297-007L 50X	Y (360.074 nm)	0.99	0.42	624283.10
	R2408297-007L 50X	Y_R (360.074 nm)	0.99	0.42	628441.51
	R2408297-007L 50X	Zn (213.857 nm)	0.0011	4.24	89.6328
9/5/2024 00:28:06	Continuing Calibration Verification1	Ag (328.068 nm)	0.5041	2.07	31665.1005
	Continuing Calibration Verification1	Al (237.312 nm)	9.5544	2.12	25496.3123
	Continuing Calibration Verification1	As (188.980 nm)	0.9726	2.23	1713.4257
	Continuing Calibration Verification1	B (249.772 nm)	2.2714	1.92	98936.0709
	Continuing Calibration Verification1	Ba (230.424 nm)	9.8057	1.61	597381.5563
	Continuing Calibration Verification1	Be (313.107 nm)	0.2474	1.94	304332.9468
	Continuing Calibration Verification1	Ca (317.933 nm)	25.7810	1.84	1002768.3406
	Continuing Calibration Verification1	Cd (214.439 nm)	0.5055	1.80	31912.6098
	Continuing Calibration Verification1	Co (230.786 nm)	2.4831	2.06	52502.4440
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5161	1.88	31090.3954
	Continuing Calibration Verification1	Cu (327.395 nm)	1.1956	2.06	57902.6180
	Continuing Calibration Verification1	Fe (234.350 nm)	5.0038	1.91	114479.6207
	Continuing Calibration Verification1	K (766.491 nm)	23.5301	2.31	31726.3914

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification1	Mg (279.078 nm)	25.8618	1.89	110038.8889
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7371	1.95	262049.7234
	Continuing Calibration Verification1	Mo (202.032 nm)	2.5690	1.64	27410.4994
	Continuing Calibration Verification1	Na (588.995 nm)	23.7757	2.31	378894.1813
	Continuing Calibration Verification1	Ni (230.299 nm)	2.0229	1.85	25982.0304
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5153	1.61	2570.1635
	Continuing Calibration Verification1	Sb (217.582 nm)	4.8476	2.13	11565.5211
	Continuing Calibration Verification1	Se (196.026 nm)	0.4799	1.39	312.7631
	Continuing Calibration Verification1	Si (252.851 nm)	9.7526 Q	0.97	65028.9338 Q
	Continuing Calibration Verification1	Sn (189.925 nm)	5.1333	1.84	13733.7412
	Continuing Calibration Verification1	Sr (216.596 nm)	2.5270	1.50	49173.2730
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5605	2.00	406157.9210
	Continuing Calibration Verification1	Tl (190.794 nm)	1.0110	1.65	935.9466
	Continuing Calibration Verification1	V (292.401 nm)	2.5312	1.88	97293.6259
	Continuing Calibration Verification1	Y (360.074 nm)	0.93	2.19	589674.07
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.93	2.19	593509.38
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9983	1.83	60516.1844
9/5/2024 00:31:20	Continuing Calibration Blank1	Ag (328.068 nm)	0.0001	67.02	17.3409
	Continuing Calibration Blank1	Al (237.312 nm)	0.0020	33.24	-6.6410
	Continuing Calibration Blank1	As (188.980 nm)	0.0014 u	> 100.00	-0.1442
	Continuing Calibration Blank1	B (249.772 nm)	0.0003	88.57	126.8353
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0008	9.16	60.6686
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000	12.63	7.3235
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0036	3.99	3400.4695
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000 u	> 100.00	9.0376
	Continuing Calibration Blank1	Co (230.786 nm)	0.0003	27.63	10.1855
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0001 u	> 100.00	11.0602
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0000 u	> 100.00	2.6723
	Continuing Calibration Blank1	Fe (234.350 nm)	-0.0047 u	24.88	194.1100
	Continuing Calibration Blank1	K (766.491 nm)	0.0749	35.70	824.5026
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0004 u	> 100.00	5.6046
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0001	2.61	49.6652
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0069	10.37	81.9933
	Continuing Calibration Blank1	Na (588.995 nm)	0.0602	12.25	-13279.3290
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0002 u	> 100.00	4.1833
	Continuing Calibration Blank1	Pb (220.353 nm)	-0.0013 u	24.95	-3.3254
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0110	5.60	25.6419
	Continuing Calibration Blank1	Se (196.026 nm)	-0.0015 u	> 100.00	3.5656
	Continuing Calibration Blank1	Si (252.851 nm)	0.0009 u	> 100.00	134.9857
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0000 u	> 100.00	7.3607
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0003	28.12	12.3494
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0069	27.08	1189.8511
	Continuing Calibration Blank1	Tl (190.794 nm)	0.0013 u	> 100.00	-1.6660
	Continuing Calibration Blank1	V (292.401 nm)	0.0004	39.07	27.0758
	Continuing Calibration Blank1	Y (360.074 nm)	0.99	0.32	623478.39
	Continuing Calibration Blank1	Y_R (360.074 nm)	0.98	0.32	627563.94
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0000 u	> 100.00	19.9337
9/5/2024 00:34:35	PBW-444014	Ag (328.068 nm)	0.0001	84.51	19.4111
	PBW-444014	Al (237.312 nm)	0.0013 u	> 100.00	-8.6027
	PBW-444014	As (188.980 nm)	0.0003 u	> 100.00	-2.1533
	PBW-444014	B (249.772 nm)	0.0019	5.21	193.1157
	PBW-444014	Ba (230.424 nm)	0.0001	58.73	17.8614
	PBW-444014	Be (313.107 nm)	0.0000 u	51.48	-16.1179
	PBW-444014	Ca (317.933 nm)	0.0196	1.44	4020.9454
	PBW-444014	Cd (214.439 nm)	0.0000 u	> 100.00	12.2954
	PBW-444014	Co (230.786 nm)	0.0000 u	> 100.00	2.5046
	PBW-444014	Cr (267.716 nm)	0.0002	35.62	13.2376

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	PBW-444014	Cu (327.395 nm)	0.0017	6.75	85.0140
	PBW-444014	Fe (234.350 nm)	-0.0019 u	42.64	258.5507
	PBW-444014	K (766.491 nm)	0.1322	13.42	900.0436
	PBW-444014	Mg (279.078 nm)	0.0005 u	> 100.00	5.7040
	PBW-444014	Mn (257.610 nm)	0.0000	> 100.00	34.1087
	PBW-444014	Mo (202.032 nm)	0.0020	25.66	29.5085
	PBW-444014	Na (588.995 nm)	0.1871	3.27	-11180.8384
	PBW-444014	Ni (230.299 nm)	0.0000 u	> 100.00	0.9507
	PBW-444014	Pb (220.353 nm)	-0.0007 u	> 100.00	-0.2756
	PBW-444014	Sb (217.582 nm)	0.0172	6.29	40.3369
	PBW-444014	Se (196.026 nm)	-0.0036 u	43.23	2.2049
	PBW-444014	Si (252.851 nm)	0.0133	47.23	217.6403
	PBW-444014	Sn (189.925 nm)	0.0016	35.60	11.6013
	PBW-444014	Sr (216.596 nm)	-0.0002 u	14.00	3.5019
	PBW-444014	Ti (336.122 nm)	0.0033	34.65	618.6804
	PBW-444014	Tl (190.794 nm)	0.0007 u	> 100.00	-2.1901
	PBW-444014	V (292.401 nm)	0.0002	70.66	18.0120
	PBW-444014	Y (360.074 nm)	0.98	0.70	620824.55
	PBW-444014	Y_R (360.074 nm)	0.98	0.70	624963.74
	PBW-444014	Zn (213.857 nm)	0.0003	23.92	35.8156
9/5/2024 00:37:52	LCSW-444014	Ag (328.068 nm)	0.2464	0.10	15483.3923
	LCSW-444014	Al (237.312 nm)	0.0022	> 100.00	-6.0642
	LCSW-444014	As (188.980 nm)	0.9228	0.11	1625.6112
	LCSW-444014	B (249.772 nm)	0.0014	6.13	173.9964
	LCSW-444014	Ba (230.424 nm)	1.9277	0.21	117449.7512
	LCSW-444014	Be (313.107 nm)	0.3868	0.11	475685.5384
	LCSW-444014	Ca (317.933 nm)	0.0169	2.20	3916.2717
	LCSW-444014	Cd (214.439 nm)	0.4950	0.12	31253.4570
	LCSW-444014	Co (230.786 nm)	-0.0002 u	75.79	-1.5025
	LCSW-444014	Cr (267.716 nm)	0.4920	0.12	29642.0261
	LCSW-444014	Cu (327.395 nm)	0.9743	0.12	47183.1576
	LCSW-444014	Fe (234.350 nm)	0.0023	17.20	354.3798
	LCSW-444014	K (766.491 nm)	0.1097	22.76	870.3404
	LCSW-444014	Mg (279.078 nm)	0.0000 u	> 100.00	3.8065
	LCSW-444014	Mn (257.610 nm)	0.0000	33.24	33.9271
	LCSW-444014	Mo (202.032 nm)	0.0009	35.88	17.8407
	LCSW-444014	Na (588.995 nm)	0.1629	4.37	-11580.2294
	LCSW-444014	Ni (230.299 nm)	0.9918	0.18	12739.1349
	LCSW-444014	Pb (220.353 nm)	0.5171	0.20	2579.1192
	LCSW-444014	Sb (217.582 nm)	0.9549	0.38	2277.7607
	LCSW-444014	Se (196.026 nm)	0.9450	0.34	611.4534
	LCSW-444014	Si (252.851 nm)	0.5111	1.23	3530.1227
	LCSW-444014	Sn (189.925 nm)	0.0007	47.60	9.3871
	LCSW-444014	Sr (216.596 nm)	0.0001	> 100.00	9.3648
	LCSW-444014	Ti (336.122 nm)	0.0012	33.35	285.2832
	LCSW-444014	Tl (190.794 nm)	1.0024	0.47	927.9663
	LCSW-444014	V (292.401 nm)	0.9581	0.09	36832.7993
	LCSW-444014	Y (360.074 nm)	0.98	0.55	623196.81
	LCSW-444014	Y_R (360.074 nm)	0.98	0.55	627309.53
	LCSW-444014	Zn (213.857 nm)	0.9702	0.21	58812.1362
9/5/2024 00:41:07	R2407832-001 5X	Ag (328.068 nm)	0.0002	> 100.00	23.4645
	R2407832-001 5X	Al (237.312 nm)	0.0864	4.77	218.7378
	R2407832-001 5X	As (188.980 nm)	0.0075	22.32	10.6391
	R2407832-001 5X	B (249.772 nm)	0.0316	4.18	1487.4118
	R2407832-001 5X	Ba (230.424 nm)	0.0596	3.78	3639.7868
	R2407832-001 5X	Be (313.107 nm)	0.0000	50.37	5.6473
	R2407832-001 5X	Ca (317.933 nm)	284.4182 o	3.53	11029918.2548

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2407832-001 5X	Cd (214.439 nm)	0.0002	18.46	25.7482
	R2407832-001 5X	Co (230.786 nm)	0.0091	3.45	196.1799
	R2407832-001 5X	Cr (267.716 nm)	0.0004	29.58	24.6686
	R2407832-001 5X	Cu (327.395 nm)	0.0006	28.02	28.6254
	R2407832-001 5X	Fe (234.350 nm)	0.0567	5.11	1593.8289
	R2407832-001 5X	K (766.491 nm)	0.5215	1.70	1412.9882
	R2407832-001 5X	Mg (279.078 nm)	38.0599	3.96	161938.3373
	R2407832-001 5X	Mn (257.610 nm)	0.9377	3.95	333363.0283
	R2407832-001 5X	Mo (202.032 nm)	0.0003 u	> 100.00	12.1215
	R2407832-001 5X	Na (588.995 nm)	13.7515	4.29	213127.5129
	R2407832-001 5X	Ni (230.299 nm)	0.0088	6.87	114.2843
	R2407832-001 5X	Pb (220.353 nm)	0.0002 u	> 100.00	4.1429
	R2407832-001 5X	Sb (217.582 nm)	0.0065	15.58	14.8496
	R2407832-001 5X	Se (196.026 nm)	-0.0007 u	> 100.00	4.0542
	R2407832-001 5X	Si (252.851 nm)	0.6543	3.83	4483.2345
	R2407832-001 5X	Sn (189.925 nm)	-0.0006 u	> 100.00	5.8874
	R2407832-001 5X	Sr (216.596 nm)	0.2609	3.95	5081.9119
	R2407832-001 5X	Ti (336.122 nm)	0.0008	23.95	209.5077
	R2407832-001 5X	Tl (190.794 nm)	0.0045	13.07	1.2890
	R2407832-001 5X	V (292.401 nm)	0.0004	26.12	26.0073
	R2407832-001 5X	Y (360.074 nm)	0.92	0.52	583397.84
	R2407832-001 5X	Y_R (360.074 nm)	0.92	0.52	587030.04
	R2407832-001 5X	Zn (213.857 nm)	0.0065	1.90	416.2580
9/5/2024 00:44:22	R2407832-002 5X	Ag (328.068 nm)	0.0002	47.17	23.2897
	R2407832-002 5X	Al (237.312 nm)	0.1454	2.58	376.3610
	R2407832-002 5X	As (188.980 nm)	0.0038	18.55	4.0920
	R2407832-002 5X	B (249.772 nm)	0.1789	2.57	7894.0519
	R2407832-002 5X	Ba (230.424 nm)	0.0454	2.28	2772.9005
	R2407832-002 5X	Be (313.107 nm)	0.0000	7.24	23.1870
	R2407832-002 5X	Ca (317.933 nm)	279.7860 o	2.30	10850330.8796
	R2407832-002 5X	Cd (214.439 nm)	0.0004	12.77	35.1559
	R2407832-002 5X	Co (230.786 nm)	0.0087	0.29	186.3790
	R2407832-002 5X	Cr (267.716 nm)	0.0006	6.85	37.2845
	R2407832-002 5X	Cu (327.395 nm)	0.0010	43.86	50.4991
	R2407832-002 5X	Fe (234.350 nm)	0.0863	2.83	2269.3056
	R2407832-002 5X	K (766.491 nm)	0.5050	2.99	1391.2147
	R2407832-002 5X	Mg (279.078 nm)	42.4557	2.52	180641.5190
	R2407832-002 5X	Mn (257.610 nm)	0.9978	2.54	354723.3248
	R2407832-002 5X	Mo (202.032 nm)	0.0003 u	> 100.00	11.4650
	R2407832-002 5X	Na (588.995 nm)	18.2943	2.99	288250.0146
	R2407832-002 5X	Ni (230.299 nm)	0.0100	2.62	130.1496
	R2407832-002 5X	Pb (220.353 nm)	0.0009	51.94	7.4800
	R2407832-002 5X	Sb (217.582 nm)	0.0027	29.93	5.7333
	R2407832-002 5X	Se (196.026 nm)	-0.0061 u	55.27	0.5819
	R2407832-002 5X	Si (252.851 nm)	0.9016	2.56	6129.3046
	R2407832-002 5X	Sn (189.925 nm)	-0.0013 u	73.05	3.8149
	R2407832-002 5X	Sr (216.596 nm)	0.2317	2.27	4515.1931
	R2407832-002 5X	Ti (336.122 nm)	0.0015	6.29	328.0893
	R2407832-002 5X	Tl (190.794 nm)	0.0030	22.84	-0.1168
	R2407832-002 5X	V (292.401 nm)	0.0006	28.55	33.6783
	R2407832-002 5X	Y (360.074 nm)	0.92	0.52	583500.44
	R2407832-002 5X	Y_R (360.074 nm)	0.92	0.52	587105.68
	R2407832-002 5X	Zn (213.857 nm)	0.0065	2.27	412.0205
9/5/2024 00:47:38	R2407832-003 3X	Ag (328.068 nm)	0.0001 u	> 100.00	21.6173
	R2407832-003 3X	Al (237.312 nm)	0.1139	6.54	292.2450
	R2407832-003 3X	As (188.980 nm)	0.0001 u	> 100.00	-2.5404
	R2407832-003 3X	B (249.772 nm)	0.0314	4.85	1479.0107

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2407832-003 3X	Ba (230.424 nm)	0.0631	5.34	3856.3776
	R2407832-003 3X	Be (313.107 nm)	0.0000	9.10	35.5679
	R2407832-003 3X	Ca (317.933 nm)	385.4519 o	4.52	14946910.3888
	R2407832-003 3X	Cd (214.439 nm)	0.0002	3.53	24.9233
	R2407832-003 3X	Co (230.786 nm)	0.0111	4.53	238.9320
	R2407832-003 3X	Cr (267.716 nm)	0.0004	24.89	27.1785
	R2407832-003 3X	Cu (327.395 nm)	0.0003	59.39	18.0794
	R2407832-003 3X	Fe (234.350 nm)	0.0468	6.87	1369.0263
	R2407832-003 3X	K (766.491 nm)	0.6049	6.62	1522.8698
	R2407832-003 3X	Mg (279.078 nm)	81.0796 o	5.27	344976.0140
	R2407832-003 3X	Mn (257.610 nm)	1.4118	5.17	501894.5434
	R2407832-003 3X	Mo (202.032 nm)	-0.0001 u	> 100.00	7.1852
	R2407832-003 3X	Na (588.995 nm)	14.0801	5.33	218561.8072
	R2407832-003 3X	Ni (230.299 nm)	0.0109	2.89	141.1953
	R2407832-003 3X	Pb (220.353 nm)	0.0009	57.75	7.9438
	R2407832-003 3X	Sb (217.582 nm)	0.0025	51.04	5.3352
	R2407832-003 3X	Se (196.026 nm)	-0.0010 u	> 100.00	3.8928
	R2407832-003 3X	Si (252.851 nm)	0.7496	4.66	5117.7889
	R2407832-003 3X	Sn (189.925 nm)	-0.0005 u	50.84	5.9760
	R2407832-003 3X	Sr (216.596 nm)	0.3000	5.19	5842.6561
	R2407832-003 3X	Ti (336.122 nm)	0.0006	6.89	177.4283
	R2407832-003 3X	Tl (190.794 nm)	0.0021	71.72	-0.8869
	R2407832-003 3X	V (292.401 nm)	0.0005	40.60	30.9592
	R2407832-003 3X	Y (360.074 nm)	0.91	0.71	573174.44
	R2407832-003 3X	Y_R (360.074 nm)	0.90	0.71	576678.02
	R2407832-003 3X	Zn (213.857 nm)	0.0268	5.31	1642.0386
9/5/2024 00:50:53	R2408216-001 5X	Ag (328.068 nm)	0.0002	70.04	25.5577
	R2408216-001 5X	Al (237.312 nm)	0.0526	1.60	128.4402
	R2408216-001 5X	As (188.980 nm)	0.0019	> 100.00	0.6981
	R2408216-001 5X	B (249.772 nm)	0.1686	0.25	7447.5057
	R2408216-001 5X	Ba (230.424 nm)	0.0997	0.19	6083.3131
	R2408216-001 5X	Be (313.107 nm)	0.0000 u	12.85	-17.2909
	R2408216-001 5X	Ca (317.933 nm)	414.4140 o	0.08	16069748.5955
	R2408216-001 5X	Cd (214.439 nm)	0.0000 u	> 100.00	11.3632
	R2408216-001 5X	Co (230.786 nm)	0.0006	17.61	17.0497
	R2408216-001 5X	Cr (267.716 nm)	0.0004	21.08	25.4748
	R2408216-001 5X	Cu (327.395 nm)	0.0002	56.58	12.3819
	R2408216-001 5X	Fe (234.350 nm)	0.1234	0.18	3117.2562
	R2408216-001 5X	K (766.491 nm)	6.1807	0.66	8868.7937
	R2408216-001 5X	Mg (279.078 nm)	29.0099	0.05	123433.3693
	R2408216-001 5X	Mn (257.610 nm)	0.7044	0.09	250432.9999
	R2408216-001 5X	Mo (202.032 nm)	0.0213	1.54	235.3997
	R2408216-001 5X	Na (588.995 nm)	141.9701 o	0.56	2333421.8315
	R2408216-001 5X	Ni (230.299 nm)	0.0175	2.61	226.2677
	R2408216-001 5X	Pb (220.353 nm)	0.0284	4.77	144.6958
	R2408216-001 5X	Sb (217.582 nm)	0.0052	41.21	11.6832
	R2408216-001 5X	Se (196.026 nm)	-0.0052 u	> 100.00	1.1971
	R2408216-001 5X	Si (252.851 nm)	2.9438	0.22	19719.2136
	R2408216-001 5X	Sn (189.925 nm)	-0.0013 u	43.92	3.9703
	R2408216-001 5X	Sr (216.596 nm)	6.4962 o	0.30	126401.4915
	R2408216-001 5X	Ti (336.122 nm)	0.0015	13.22	319.7441
	R2408216-001 5X	Tl (190.794 nm)	0.0028 u	> 100.00	-0.2329
	R2408216-001 5X	V (292.401 nm)	0.0006	55.87	33.7532
	R2408216-001 5X	Y (360.074 nm)	0.89	0.43	564352.62
	R2408216-001 5X	Y_R (360.074 nm)	0.89	0.43	567774.69
	R2408216-001 5X	Zn (213.857 nm)	0.0596	0.17	3631.9120
9/5/2024 00:54:08	R2408216-001L 25X	Ag (328.068 nm)	0.0002	58.93	22.2878

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408216-001L 25X	Al (237.312 nm)	0.0100	9.75	14.7495
	R2408216-001L 25X	As (188.980 nm)	0.0010 u	> 100.00	-0.9393
	R2408216-001L 25X	B (249.772 nm)	0.0324	2.51	1520.6231
	R2408216-001L 25X	Ba (230.424 nm)	0.0208	2.72	1275.2602
	R2408216-001L 25X	Be (313.107 nm)	0.0000 u	> 100.00	-11.9245
	R2408216-001L 25X	Ca (317.933 nm)	94.7009 o	2.21	3674735.6904
	R2408216-001L 25X	Cd (214.439 nm)	0.0000 u	> 100.00	8.9057
	R2408216-001L 25X	Co (230.786 nm)	0.0002 u	> 100.00	8.1010
	R2408216-001L 25X	Cr (267.716 nm)	0.0001 u	> 100.00	7.1958
	R2408216-001L 25X	Cu (327.395 nm)	0.0000 u	> 100.00	1.4446
	R2408216-001L 25X	Fe (234.350 nm)	0.0178	3.88	706.1955
	R2408216-001L 25X	K (766.491 nm)	1.0428	4.84	2099.6763
	R2408216-001L 25X	Mg (279.078 nm)	6.0457	2.27	25726.4543
	R2408216-001L 25X	Mn (257.610 nm)	0.1458	2.18	51863.3721
	R2408216-001L 25X	Mo (202.032 nm)	0.0044	5.24	54.9822
	R2408216-001L 25X	Na (588.995 nm)	28.3635	2.33	454759.9211
	R2408216-001L 25X	Ni (230.299 nm)	0.0036	8.07	47.6227
	R2408216-001L 25X	Pb (220.353 nm)	0.0065	15.46	35.4068
	R2408216-001L 25X	Sb (217.582 nm)	0.0038	24.98	8.2848
	R2408216-001L 25X	Se (196.026 nm)	-0.0055 u	46.80	0.9898
	R2408216-001L 25X	Si (252.851 nm)	0.5783	1.93	3977.5089
	R2408216-001L 25X	Sn (189.925 nm)	-0.0013 u	35.73	3.9059
	R2408216-001L 25X	Sr (216.596 nm)	1.3718	2.14	26697.0646
	R2408216-001L 25X	Ti (336.122 nm)	0.0002	51.06	115.5691
	R2408216-001L 25X	Tl (190.794 nm)	0.0020	97.31	-1.0417
	R2408216-001L 25X	V (292.401 nm)	0.0003	9.18	23.1312
	R2408216-001L 25X	Y (360.074 nm)	0.93	2.20	591330.25
	R2408216-001L 25X	Y_R (360.074 nm)	0.93	2.20	595123.80
	R2408216-001L 25X	Zn (213.857 nm)	0.0121	2.42	755.7407
9/5/2024 00:57:23	R2408209-001 100X	Ag (328.068 nm)	0.0001	26.85	21.0103
	R2408209-001 100X	Al (237.312 nm)	0.0132	18.34	23.4145
	R2408209-001 100X	As (188.980 nm)	0.0021	> 100.00	1.0635
	R2408209-001 100X	B (249.772 nm)	-0.0005 u	14.38	92.0580
	R2408209-001 100X	Ba (230.424 nm)	0.0019	1.92	123.8801
	R2408209-001 100X	Be (313.107 nm)	0.0000 u	> 100.00	-12.4055
	R2408209-001 100X	Ca (317.933 nm)	0.2688	0.02	13682.8142
	R2408209-001 100X	Cd (214.439 nm)	0.0002	28.75	24.4795
	R2408209-001 100X	Co (230.786 nm)	0.0011	4.45	27.5700
	R2408209-001 100X	Cr (267.716 nm)	0.0029	3.65	175.1754
	R2408209-001 100X	Cu (327.395 nm)	0.0002	48.69	11.6011
	R2408209-001 100X	Fe (234.350 nm)	0.1020	0.68	2629.4318
	R2408209-001 100X	K (766.491 nm)	0.0838	46.10	836.3187
	R2408209-001 100X	Mg (279.078 nm)	0.0207	3.90	91.6323
	R2408209-001 100X	Mn (257.610 nm)	0.0378	0.08	13468.7768
	R2408209-001 100X	Mo (202.032 nm)	0.0002 u	94.44	10.2860
	R2408209-001 100X	Na (588.995 nm)	15.1234	0.31	235814.9892
	R2408209-001 100X	Ni (230.299 nm)	0.0008	43.19	10.8656
	R2408209-001 100X	Pb (220.353 nm)	1.5069 o	0.10	7510.0472
	R2408209-001 100X	Sb (217.582 nm)	0.0031	47.63	6.7878
	R2408209-001 100X	Se (196.026 nm)	-0.0096 u	65.10	-1.6225
	R2408209-001 100X	Si (252.851 nm)	0.0132	21.90	217.0196
	R2408209-001 100X	Sn (189.925 nm)	-0.0005 u	> 100.00	6.1560
	R2408209-001 100X	Sr (216.596 nm)	0.0024	7.48	53.1852
	R2408209-001 100X	Ti (336.122 nm)	0.0000 u	> 100.00	89.1379
	R2408209-001 100X	Tl (190.794 nm)	0.0019	49.23	-1.0593
	R2408209-001 100X	V (292.401 nm)	-0.0001 u	> 100.00	8.5151
	R2408209-001 100X	Y (360.074 nm)	0.97	0.27	615554.89

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408209-001 100X	Y_R (360.074 nm)	0.97	0.27	619601.51
	R2408209-001 100X	Zn (213.857 nm)	0.1163	0.13	7066.0173
9/5/2024 01:00:37	Continuing Calibration Verification1	Ag (328.068 nm)	0.4960	0.12	31157.4868
	Continuing Calibration Verification1	Al (237.312 nm)	9.3725	0.15	25010.8121
	Continuing Calibration Verification1	As (188.980 nm)	0.9605	0.08	1692.1550
	Continuing Calibration Verification1	B (249.772 nm)	2.2383 Q	0.10	97493.3244 Q
	Continuing Calibration Verification1	Ba (230.424 nm)	9.6542	0.82	588151.0772
	Continuing Calibration Verification1	Be (313.107 nm)	0.2441	0.11	300193.1101
	Continuing Calibration Verification1	Ca (317.933 nm)	25.4810	0.18	991135.7552
	Continuing Calibration Verification1	Cd (214.439 nm)	0.4989	0.26	31498.1044
	Continuing Calibration Verification1	Co (230.786 nm)	2.4479	0.43	51759.1460
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5090	0.18	30662.9726
	Continuing Calibration Verification1	Cu (327.395 nm)	1.1827	0.17	57277.5886
	Continuing Calibration Verification1	Fe (234.350 nm)	4.9316	0.18	112831.5263
	Continuing Calibration Verification1	K (766.491 nm)	23.0069	0.23	31037.1693
	Continuing Calibration Verification1	Mg (279.078 nm)	25.5400	0.24	108669.7794
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7267	0.14	258352.2709
	Continuing Calibration Verification1	Mo (202.032 nm)	2.5312	0.38	27006.9704
	Continuing Calibration Verification1	Na (588.995 nm)	23.2797	0.33	370691.8395
	Continuing Calibration Verification1	Ni (230.299 nm)	1.9957	0.08	25632.9765
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5085	0.06	2536.2758
	Continuing Calibration Verification1	Sb (217.582 nm)	4.7605	0.16	11357.5763
	Continuing Calibration Verification1	Se (196.026 nm)	0.4709	1.24	306.9463
	Continuing Calibration Verification1	Si (252.851 nm)	9.5919 Q	1.21	63959.5784 Q
	Continuing Calibration Verification1	Sn (189.925 nm)	5.0570	0.12	13529.6565
	Continuing Calibration Verification1	Sr (216.596 nm)	2.4976	0.31	48601.7766
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5238	0.19	400335.8560
	Continuing Calibration Verification1	Tl (190.794 nm)	0.9961	0.39	922.0991
	Continuing Calibration Verification1	V (292.401 nm)	2.4977	0.17	96004.7529
	Continuing Calibration Verification1	Y (360.074 nm)	0.95	0.54	598739.73
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.95	0.54	602652.98
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9855	0.37	59741.7635
9/5/2024 01:03:52	Continuing Calibration Blank1	Ag (328.068 nm)	0.0001 u	> 100.00	17.1526
	Continuing Calibration Blank1	Al (237.312 nm)	0.0020	72.51	-6.5003
	Continuing Calibration Blank1	As (188.980 nm)	0.0022	26.21	1.2683
	Continuing Calibration Blank1	B (249.772 nm)	0.0001 u	> 100.00	117.0188
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0009	4.05	66.1650
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000	69.14	-5.7666
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0041	1.90	3420.4096
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000 u	> 100.00	12.6040
	Continuing Calibration Blank1	Co (230.786 nm)	0.0001	> 100.00	6.1191
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0000 u	> 100.00	4.1122
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0000 u	> 100.00	1.7037
	Continuing Calibration Blank1	Fe (234.350 nm)	-0.0047 u	18.61	193.5317
	Continuing Calibration Blank1	K (766.491 nm)	0.0148	11.48	745.3076
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0003	> 100.00	5.0098
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0001	22.47	55.3343
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0074	11.06	87.2975
	Continuing Calibration Blank1	Na (588.995 nm)	-0.0251 u	10.09	-14689.4587
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0005	38.24	7.3349
	Continuing Calibration Blank1	Pb (220.353 nm)	-0.0004 u	93.41	1.4584
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0128	4.33	29.9523
	Continuing Calibration Blank1	Se (196.026 nm)	-0.0011 u	> 100.00	3.8379
	Continuing Calibration Blank1	Si (252.851 nm)	0.0006 u	> 100.00	132.8561
	Continuing Calibration Blank1	Sn (189.925 nm)	-0.0001 u	> 100.00	7.0183
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0001 u	> 100.00	7.5045
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0071	26.28	1221.4403

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank1	Tl (190.794 nm)	0.0019 u	> 100.00	-1.1296
	Continuing Calibration Blank1	V (292.401 nm)	0.0003	70.04	23.3490
	Continuing Calibration Blank1	Y (360.074 nm)	0.98	0.82	618420.48
	Continuing Calibration Blank1	Y_R (360.074 nm)	0.98	0.82	622613.71
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0000 u	49.52	17.3485

Summary Calibration Results

Element and wavelength	Type	Units	Equation	Correlation Coefficient	%RSE
Ag (328.068 nm)	Analyte	ppm	62794.93556650 * Concentration + 12.51925843	0.99999	1.92022831
Al (237.312 nm)	Analyte	ppm	2669.79520476 * Concentration - 11.96024982	1.00000	2.01872025
As (188.980 nm)	Analyte	ppm	1764.45153212 * Concentration - 2.64554645	0.99999	4.22935345
B (249.772 nm)	Analyte	ppm	43507.38473613 * Concentration + 112.61778277	0.99997	2.41189218
Ba (230.424 nm)	Analyte	ppm	60920.89766359 * Concentration + 10.11312794	0.99998	2.27200862
Be (313.107 nm)	Analyte	ppm	1229932.54914746 * Concentration - 12.45410430	1.00000	3.21563766
Ca (317.933 nm)	Analyte	ppm	38769.17081773 * Concentration + 3260.33179809	1.00000	2.05037962
Cd (214.439 nm)	Analyte	ppm	63110.26729698 * Concentration + 11.39738905	1.00000	1.56323295
Co (230.786 nm)	Analyte	ppm	21142.66250360 * Concentration + 3.45711496	0.99999	1.86754317
Cr (267.716 nm)	Analyte	ppm	60238.34006184 * Concentration + 3.38739638	1.00000	3.68771519
Cu (327.395 nm)	Analyte	ppm	48427.33293040 * Concentration + 1.54763187	0.99998	4.52425912
Fe (234.350 nm)	Analyte	ppm	22818.24099786 * Concentration + 300.92969355	1.00000	3.00344938
K (766.491 nm)	Analyte	ppm	1317.48610511 * Concentration + 725.85916972	0.99989	15.224572 31
Mg (279.078 nm)	Analyte	ppm	4254.73498475 * Concentration + 3.73849504	1.00000	0.51284691
Mn (257.610 nm)	Analyte	ppm	355467.21849555 * Concentration + 28.99575034	1.00000	2.32004800
Mo (202.032 nm)	Analyte	ppm	10666.23816123 * Concentration + 8.41795024	1.00000	3.14301961
Na (588.995 nm)	Analyte	ppm	16536.55755783 * Concentration - 14274.24187167	1.00000	1.19288709
Ni (230.299 nm)	Analyte	ppm	12843.34793761 * Concentration + 1.18038435	0.99999	2.21848422
Pb (220.353 nm)	Analyte	ppm	4981.46914969 * Concentration + 3.24071229	0.99999	3.07018347
Sb (217.582 nm)	Analyte	ppm	2385.95346838 * Concentration - 0.66726722	0.99999	2.87260898
Se (196.026 nm)	Analyte	ppm	642.23777198 * Concentration + 4.52785976	0.99999	12.194392 21
Si (252.851 nm)	Analyte	ppm	6654.60013069 * Concentration + 129.18978542	0.99999	1.03227799
Sn (189.925 nm)	Analyte	ppm	2673.98823626 * Concentration + 7.38906051	0.99999	2.20711124
Sr (216.596 nm)	Analyte	ppm	19456.71440375 * Concentration + 6.45703812	1.00000	1.68472211
Ti (336.122 nm)	Analyte	ppm	158591.31859378 * Concentration + 89.68428202	1.00000	0.75060545
Tl (190.794 nm)	Analyte	ppm	928.58904584 * Concentration - 2.86372432	0.99998	9.28126395
V (292.401 nm)	Analyte	ppm	38432.81261230 * Concentration + 11.00066842	1.00000	0.88388769
Zn (213.857 nm)	Analyte	ppm	60601.01468226 * Concentration + 20.05026578	0.99999	1.23488748

Detailed Calibration Results

Ag (328.068 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	12.5193	0.0000	0.0000	N/A
Standard 2	633.0425	0.0100	0.0099	1.1826
Standard 3	1246.5448	0.0200	0.0197	1.7416
Standard 4	6182.9666	0.1000	0.0983	1.7365
Standard 5	12333.6976	0.2000	0.1962	1.8935
Standard 6	62914.2883	1.0000	1.0017	0.1701

Al (237.312 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-11.9602	0.0000	0.0000	N/A
Standard 1	263.1723	0.1000	0.1031	3.0538
Standard 2	533.0817	0.2000	0.2042	2.0756
Standard 3	1063.1700	0.4000	0.4027	0.6753
Standard 4	5277.4403	2.0000	1.9812	0.9400
Standard 5	10544.7742	4.0000	3.9541	1.1466
Standard 6	53444.1319	20.0000	20.0225	0.1127

As (188.980 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-2.6455	0.0000	0.0000	N/A
Standard 1	14.2999	0.0100	0.0096	3.9617
Standard 2	30.5681	0.0200	0.0188	5.8811
Standard 3	65.9033	0.0400	0.0388	2.8752
Standard 4	340.1565	0.2000	0.1943	2.8588
Standard 5	687.7485	0.4000	0.3913	2.1801
Standard 6	3535.9771	2.0000	2.0055	0.2754

B (249.772 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	112.6178	0.0000	0.0000	N/A
Standard 2	4409.8886	0.1000	0.0988	1.2289
Standard 3	8674.5309	0.2000	0.1968	1.6039
Standard 4	43243.3260	1.0000	0.9913	0.8658
Standard 5	86982.7646	2.0000	1.9967	0.1662
Standard 6	450624.9528	10.0000	10.3548	3.5485

Ba (230.424 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	10.1131	0.0000	0.0000	N/A
Standard 1	1235.5038	0.0200	0.0201	0.5723
Standard 2	12509.5840	0.2000	0.2052	2.5877
Standard 3	24849.1729	0.4000	0.4077	1.9316
Standard 4	122410.5071	2.0000	2.0092	0.4585
Standard 5	243412.8800	4.0000	3.9954	0.1152
Standard 6	1180539.8200	20.0000	19.3781	3.1096

Be (313.107 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-12.4541	0.0000	0.0000	N/A
Standard 1	3452.9456	0.0030	0.0028	6.0816
Standard 2	6073.4936	0.0050	0.0049	1.0361
Standard 3	12220.0211	0.0100	0.0099	0.5435
Standard 4	61744.1026	0.0500	0.0502	0.4227
Standard 5	123890.5070	0.1000	0.1007	0.7396
Standard 6	624241.8643	0.5000	0.5076	1.5103

Ca (317.933 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	3260.3318	0.0000	0.0000	N/A
Standard 2	23258.1092	0.5000	0.5158	3.1633
Standard 3	42465.9153	1.0000	1.0113	1.1257
Standard 4	198187.8044	5.0000	5.0279	0.5580
Standard 5	391872.4212	10.0000	10.0237	0.2374
Standard 6	1922618.5079	50.0000	49.5073	0.9853

Cd (214.439 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	11.3974	0.0000	0.0000	N/A
Standard 1	334.7711	0.0050	0.0051	2.4789
Standard 2	646.7309	0.0100	0.0101	0.6704
Standard 3	1276.5546	0.0200	0.0200	0.2339

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Standard 4	6282.4168	0.1000	0.0994	0.6339
Standard 5	12504.5147	0.2000	0.1980	1.0215
Standard 6	62303.6313	1.0000	0.9870	1.2962

Co (230.786 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	3.4571	0.0000	0.0000	N/A
Standard 2	1083.5101	0.0500	0.0511	2.1681
Standard 3	2146.7917	0.1000	0.1014	1.3749
Standard 4	10620.6981	0.5000	0.5022	0.4343
Standard 5	21063.1280	1.0000	0.9961	0.3925
Standard 6	103730.7370	5.0000	4.9061	1.8787

Cr (267.716 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	3.3874	0.0000	0.0000	N/A
Standard 2	637.4486	0.0100	0.0105	5.2587
Standard 3	1249.7912	0.0200	0.0207	3.4560
Standard 4	6063.0369	0.1000	0.1006	0.5946
Standard 5	12030.9578	0.2000	0.1997	0.1668
Standard 6	59696.9362	1.0000	0.9910	0.9044

Cu (327.395 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	1.5476	0.0000	0.0000	N/A
Standard 1	457.0100	0.0100	0.0094	5.9493
Standard 2	1158.6807	0.0250	0.0239	4.4231
Standard 3	2336.8250	0.0500	0.0482	3.5554
Standard 4	11789.1920	0.2500	0.2434	2.6364
Standard 5	23574.3352	0.5000	0.4868	2.6468
Standard 6	121754.7824	2.5000	2.5141	0.5657

Fe (234.350 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	300.9297	0.0000	0.0000	N/A
Standard 2	2473.1537	0.1000	0.0952	4.8032
Standard 3	4788.0172	0.2000	0.1966	1.6776
Standard 4	23350.6285	1.0000	1.0101	1.0144
Standard 5	46083.0050	2.0000	2.0064	0.3190
Standard 6	227991.3254	10.0000	9.9784	0.2156

K (766.491 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	725.8592	0.0000	0.0000	N/A
Standard 2	1263.6616	0.5000	0.4082	18.3593
Standard 3	1837.8480	1.0000	0.8440	15.5977
Standard 4	6735.9017	5.0000	4.5618	8.7650
Standard 5	13108.8716	10.0000	9.3990	6.0103
Standard 6	67546.2420	50.0000	50.7181	1.4362

Mg (279.078 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	3.7385	0.0000	0.0000	N/A
Standard 2	2137.8447	0.5000	0.5016	0.3168
Standard 3	4263.3924	1.0000	1.0012	0.1156
Standard 4	21342.6690	5.0000	5.0153	0.3067
Standard 5	42255.1304	10.0000	9.9304	0.6956
Standard 6	213404.3698	50.0000	50.1560	0.3121

Mn (257.610 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	28.9958	0.0000	0.0000	N/A
Standard 1	3663.2625	0.0100	0.0102	2.2392
Standard 2	5525.3442	0.0150	0.0155	3.0821
Standard 3	10909.5123	0.0300	0.0306	2.0302
Standard 4	53521.5099	0.1500	0.1505	0.3234
Standard 5	106016.7585	0.3000	0.2982	0.6118
Standard 6	524941.1043	1.5000	1.4767	1.5545

Mo (202.032 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	8.4180	0.0000	0.0000	N/A
Standard 1	260.9106	0.0250	0.0237	5.3115
Standard 2	529.2119	0.0500	0.0488	2.3472
Standard 3	1055.3649	0.1000	0.0982	1.8448
Standard 4	5320.0858	0.5000	0.4980	0.4022
Standard 5	10724.7717	1.0000	1.0047	0.4699
Standard 6	54095.2261	5.0000	5.0708	1.4168

Na (588.995 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-14274.2419	0.0000	0.0000	N/A
Standard 2	-6115.6198	0.5000	0.4934	1.3262
Standard 3	2163.2338	1.0000	0.9940	0.5992
Standard 4	68193.5415	5.0000	4.9870	0.2600
Standard 5	151300.3623	10.0000	10.0126	0.1264
Standard 6	824442.2698	50.0000	50.7189	1.4379

Ni (230.299 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	1.1804	0.0000	0.0000	N/A
Standard 2	527.8299	0.0400	0.0410	2.5141
Standard 3	1048.8720	0.0800	0.0816	1.9683
Standard 4	5200.7394	0.4000	0.4048	1.2111
Standard 5	10271.8862	0.8000	0.7997	0.0387
Standard 6	50469.7651	4.0000	3.9296	1.7612

Pb (220.353 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	3.2407	0.0000	0.0000	N/A
Standard 1	26.9372	0.0050	0.0048	4.8615
Standard 2	52.8830	0.0100	0.0100	0.3460
Standard 3	103.9274	0.0200	0.0202	1.0612
Standard 4	515.0410	0.1000	0.1027	2.7408

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Standard 5	1022.4755	0.2000	0.2046	2.3026
Standard 6	4979.7086	1.0000	0.9990	0.1004

Sb (217.582 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-0.6673	0.0000	0.0000	N/A
Standard 1	137.0592	0.0600	0.0577	3.7935
Standard 2	236.7297	0.1000	0.0995	0.5023
Standard 3	463.0929	0.2000	0.1944	2.8145
Standard 4	2327.5073	1.0000	0.9758	2.4216
Standard 5	4671.8380	2.0000	1.9583	2.0831
Standard 6	23975.6286	10.0000	10.0489	0.4894

Se (196.026 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	4.5279	0.0000	0.0000	N/A
Standard 2	11.6580	0.0100	0.0111	11.0198
Standard 3	15.0861	0.0200	0.0164	17.8008
Standard 4	67.5749	0.1000	0.0982	1.8323
Standard 5	130.2668	0.2000	0.1958	2.1087
Standard 6	646.9410	1.0000	1.0003	0.0273

Si (252.851 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	129.1898	0.0000	0.0000	N/A
Standard 2	3459.3389	0.5000	0.5004	0.0856
Standard 3	6746.8160	1.0000	0.9944	0.5556
Standard 4	33371.6877	5.0000	4.9954	0.0917
Standard 5	66523.7295	10.0000	9.9772	0.2276
Standard 6	338447.2242	50.0000	50.8397	1.6794

Sn (189.925 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	7.3891	0.0000	0.0000	N/A
Standard 2	280.8064	0.1000	0.1023	2.2507
Standard 3	552.1898	0.2000	0.2037	1.8704
Standard 4	2741.1492	1.0000	1.0224	2.2353
Standard 5	5407.4117	2.0000	2.0195	0.9732
Standard 6	26660.2514	10.0000	9.9675	0.3254

Sr (216.596 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	6.4570	0.0000	0.0000	N/A
Standard 2	1000.2455	0.0500	0.0511	2.1538
Standard 3	1979.5363	0.1000	0.1014	1.4087
Standard 4	9772.9203	0.5000	0.5020	0.3917
Standard 5	19437.5379	1.0000	0.9987	0.1317
Standard 6	96013.8073	5.0000	4.9344	1.3119

Ti (336.122 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	89.6843	0.0000	0.0000	N/A
Standard 2	8043.8287	0.0500	0.0502	0.3100

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Standard 3	15961.6517	0.1000	0.1001	0.0809
Standard 4	79043.8481	0.5000	0.4978	0.4307
Standard 5	158816.4118	1.0000	1.0009	0.0854
Standard 6	802411.3621	5.0000	5.0591	1.1810

Tl (190.794 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-2.8637	0.0000	0.0000	N/A
Standard 1	7.9333	0.0100	0.0116	16.2738
Standard 2	16.5738	0.0200	0.0209	4.6616
Standard 3	36.8323	0.0400	0.0427	6.8718
Standard 4	187.3282	0.2000	0.2048	2.4091
Standard 5	376.3361	0.4000	0.4084	2.0903
Standard 6	1839.8907	2.0000	1.9845	0.7766

V (292.401 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	11.0007	0.0000	0.0000	N/A
Standard 2	1953.1774	0.0500	0.0505	1.0687
Standard 3	3842.0963	0.1000	0.0997	0.3171
Standard 4	19199.5035	0.5000	0.4993	0.1452
Standard 5	38121.7263	1.0000	0.9916	0.8381
Standard 6	193356.1368	5.0000	5.0307	0.6146

Zn (213.857 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	20.0503	0.0000	0.0000	N/A
Standard 2	1242.6641	0.0200	0.0202	0.8740
Standard 3	2442.7180	0.0400	0.0400	0.0566
Standard 4	11988.3075	0.2000	0.1975	1.2537
Standard 5	23920.7535	0.4000	0.3944	1.4014
Standard 6	121854.3560	2.0000	2.0104	0.5217

Preparation Information Benchsheet

Prep Run#: 444147
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 9/3/24 12:06

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2410888-01	MB		50mL	6010D/Al T, As T, Ba T, Ca D, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Se T	<2			50.00mL	Colorless-Clear		HB:11 Well:D2 Temp:91.3C
2	RQ2410888-04	MB		50mL	6010D/Ca D	<2			50.00mL	Colorless-Clear		Filter Blank R2408347 9/03/2024
3	RQ2410888-02	LCS		50mL	6010D/Al T, As T, Ba T, Ca D, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Se T	<2			50.00mL	Colorless-Clear	0.5000 mL/236952; 0.5000 mL/233429; 0.5000 mL/237092	On HB:16:50 HB Shutoff:2:50 Pipet/Repipettor:M340,MA100,M23
4	RQ2410888-03	DLCS		50mL	6010D/Al T, As T, Ba T, Ca D, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Se T	<2			50.00mL	Colorless-Clear	0.5000 mL/233429; 0.5000 mL/237092; 0.5000 mL/236952	
5	R2408146-077	208_311_313 MW-1 2024 AN	.05	50mL	6010D/As T, Ba T, Cd T, Co T, Cr T, Cu T, Fe T, Ni T, Pb T, Se T	<2			50.00mL	Orange-Cloudy/Orange-Cloudy		
6	R2408146-078	208_311_313 RW-1 2024 AN	.04	50mL	6010D/As T, Ba T, Cd T, Co T, Cr T, Cu T, Fe T, Ni T, Pb T, Se T	<2			50.00mL	Colorless-Clear		
7	R2408146-079	EQUIP BLANK 1 SWL ND 2024 AN	.01	50mL	6010D/As T, Ba T, Cd T, Co T, Cr T, Cu T, Fe T, Ni T, Pb T, Se T	<2			50.00mL	Colorless-Clear		
8	R2408146-080	EQUIP BLANK 2 Teflon Bailer 2024 AN	.01	50mL	6010D/As T, Ba T, Cd T, Co T, Cr T, Cu T, Fe T, Ni T, Pb T, Se T	<2			50.00mL	Colorless-Clear		
9	R2408346-001	Total Leachate	.11	50mL	6010D/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Orange-Cloudy/Colorless-Clear		
10	R2408346-002	Secondary Leachate Cell 6	.11	50mL	6010D/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
11	R2408346-003	Primary Leachate Cell 6	.11	50mL	6010D/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Orange-Cloudy/Colorless-Clear		
12	R2408347-001	Shop Well	.06	50mL	6010D/Ca T, K T, Mg T, Na T	<2			50.00mL	Colorless-Clear		
13	R2408347-002	Shop Well Diss	.01	50mL	6010D/Ca D	<2			50.00mL	Colorless-Clear		
14	R2408347-003	MW-15S	.06	50mL	6010D/Ca T, K T, Mg T, Na T	<2			50.00mL	Colorless-Clear		
15	R2408347-004	MW-15S Diss	.01	50mL	6010D/Ca D	<2			50.00mL	Colorless-Clear		
16	R2408347-005	MW-13	.06	50mL	6010D/Ca T, K T, Mg T, Na T	<2			50.00mL	Colorless-Clear		
17	R2408347-006	MW-13 Diss	.01	50mL	6010D/Ca D	<2			50.00mL	Colorless-Clear		
18	R2408347-007	MW-8	.06	50mL	6010D/Ca T, K T, Mg T, Na T	<2			50.00mL	Colorless-Clear		
19	R2408347-008	MW-8 Diss	.01	50mL	6010D/Ca D	<2			50.00mL	Colorless-Clear		
20	R2408349-001	River Downstream	.11	50mL	6010D/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 444147
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 9/3/24 12:06

21	R2408349-002	River Upstream	.11	50mL	6010D/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear		

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	233429	Logbook Ref:	233429	Expires On:	07/31/2025	Lot #: 2400837-5
Name:	Custom LCS STD B Metals	Inventory ID	236952	Logbook Ref:	236952	Expires On:	01/31/2025	
Name:	C Spike	Inventory ID	237092	Logbook Ref:	236800	Expires On:	01/31/2025	

Preparation Materials

1:1 HCl Metals Grade	1:1 235981 (235982)	Hot Block Cups	50mL Lot 2206050 (230501)	Nitric Acid Metals Grade HNO3 235979 (235979)
Thermometer	461 (230831)			

Preparation Steps

Step: Digestion
Started: 9/3/24 12:06
Finished: 9/4/24 13:34
By: CDISTEFANO
Comments

8146 ~~9/4~~ 9/6
8346 9/9
8347 9/9
8349 9/9

Gold

Comments: _____

Reviewed By: L. C. Date: 9/4/24

Chain of Custody

Relinquished By: CD Date: 9/4/24
Received By: R-A07 Date: 9/4/24

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 444181
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 9/3/24 15:36

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2410906-01	MB		50mL	6010D/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		HB:12 Well:D2 Temp:92.3C
2	RQ2410906-02	LCS		50mL	6010D/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/236952; 0.5000 mL/233429; 0.5000 mL/237092	On HB:16:50 HB Shutoff:2:50 Pipet/Repipettor:M340,MA100,M23
3	RQ2410906-03	DLCS		50mL	6010D/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/237092; 0.5000 mL/236952; 0.5000 mL/233429	
4	R2408332-001	2408221030X 200-H-225	.02	50mL	6010D/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		
5	R2408332-004	2408221340Y 400-D-275	.02	50mL	6010D/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		
6	R2408332-005	2408221344Y 400-D-275	.02	50mL	6010D/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		
7	R2408332-010	2408260855C 400-GV-125	.02	50mL	6010D/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		
8	R2408332-015	2408260954C 400-JV-150	.02	50mL	6010D/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		
9	R2408332-020	2408261040A 400-EV-131	.02	50mL	6010D/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		
10	R2408332-025	2408260919A 400-HV-147	.02	50mL	6010D/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 444181
Team: Metals/CDISTEFANO
Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A
Status: Prepped
Prep Date/Time: 9/3/24 15:36

11	R2408332-026	2408261358A 400-IV-123	.02	50mL	6010D/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		
12	R2408332-027	2408261359A 400-IV-123	.02	50mL	6010D/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		
13	R2408332-028	2408261420C 400-FV-131	.02	50mL	6010D/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		
14	R2408332-029	2408261421C 400-FV-131	.02	50mL	6010D/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		
15	R2408332-030	2408271430Y 400-D-195	.02	50mL	6010D/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	233429	Logbook Ref:	233429	Expires On:	07/31/2025	Lot #: 2400837-5
Name:	Custom LCS STD B Metals	Inventory ID	236952	Logbook Ref:	236952	Expires On:	01/31/2025	
Name:	C Spike	Inventory ID	237092	Logbook Ref:	236800	Expires On:	01/31/2025	

Preparation Materials

1:1 HCl Metals Grade 1:1 235981 (235982) Hot Block Cups 50mL Lot 2206050 (230501) Nitric Acid Metals Grade HNO3 235979 (235979)
Thermometer 462 (230832)

Preparation Steps

Step: Digestion
Started: 9/3/24 15:36
Finished: 9/4/24 13:43
By: CDISTEFANO
Comments

8332 919

Comments: _____

Reviewed By: E. C. Date: 9/4/24

Preparation Information Benchsheet

Prep Run#: 444181
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 9/3/24 15:36

Chain of Custody

Relinquished By:	[signature]	Date:	9/4/24	Extracts Examined
Received By:	R-A01	Date:	9/4/24	Yes No

Preparation Information Benchsheet

Prep Run#: 444154
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 9/3/24 12:36

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2410889-01	MB		50mL	6010D/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		HB:11 Well:D2 Temp:91.3C
2	RQ2410889-02	LCS		50mL	6010D/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T	<2			50.00mL	Colorless-Clear	0.5000 mL/236952; 0.5000 mL/233429; 0.5000 mL/237092	On HB:16:50 HB Shutoff:2:50 Pipet/Repipettor:M340,MA100,M23
3	R2408350-001	MW-1S	.11	50mL	6010D/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear		
4	R2408350-002	MW-17I	.11	50mL	6010D/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Pink-Cloudy/Colorless-Cloudy		
5	R2408350-003	MW-17S	.11	50mL	6010D/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear		
6	R2408350-004	MW-7I	.11	50mL	6010D/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear		
7	R2408350-005	MW-7I DUP	.11	50mL	6010D/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear		
8	R2408350-006	MW-7S	.11	50mL	6010D/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Pink-Cloudy/Colorless-Cloudy		
9	R2408350-007	MW-6I	.11	50mL	6010D/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear		
10	R2408350-008	MW-6S	.11	50mL	6010D/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Pink-Cloudy/Colorless-Cloudy		
11	R2408350-009	MW-15D	.11	50mL	6010D/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear		
12	R2408350-010	MW-2	.11	50mL	6010D/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear		
13	R2408350-011	MW-12	.11	50mL	6010D/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Pink-Cloudy/Colorless-Cloudy		
14	R2408350-012	MW-18I	.11	50mL	6010D/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear		
15	R2408350-013	MW-18S	.11	50mL	6010D/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
16	R2408350-014	MW-5XI	.11	50mL	6010D/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 444154 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/CDISTEFANO **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 9/3/24 12:36

17	RQ2410889-03	R2408350-014 MS	.11	50mL	6010D/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear	0.5000 mL/233429; 0.5000 mL/236952; 0.5000 mL/237092	
18	RQ2410889-04	R2408350-014 DMS	.11	50mL	6010D/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear	0.5000 mL/233429; 0.5000 mL/236952; 0.5000 mL/237092	
19	R2408350-015	MW-5XS	.11	50mL	6010D/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear		
20	R2408350-016	Equipment Blank	.11	50mL	6010D/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear		
21	R2408385-021	MW-26SR	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
22	R2408385-022	MW-18D	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
23	R2408385-023	MW-09S	.01	5mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	10			50.00mL	Yellow-Cloudy/Colorless-Clear		Diluted 10x
24	R2408385-024	PZ-13	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	233429	Logbook Ref:	233429	Expires On:	07/31/2025	Lot #: 2400837-5
Name:	Custom LCS STD B Metals	Inventory ID	236952	Logbook Ref:	236952	Expires On:	01/31/2025	
Name:	C Spike	Inventory ID	237092	Logbook Ref:	236800	Expires On:	01/31/2025	

Preparation Materials

1:1 HCl Metals Grade	1:1 235981 (235982)	Hot Block Cups	50mL Lot 2206050 (230501)	Nitric Acid Metals Grade HNO3 235979 (235979)
Thermometer	461 (230831)			

Preparation Steps

Step: Digestion
Started: 9/3/24 12:36
Finished: 9/4/24 13:42
By: CDISTEFANO
Comments

8350 9/9
8385 9/10
(21-24)

Comments: 6010

Reviewed By: [signature] Date: 9/4/24

Preparation Information Benchsheet

Prep Run#: 444154
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 9/3/24 12:36

Chain of Custody

Relinquished By:		Date:	9/4/24	Extracts Examined
Received By:		Date:	9/4/24	Yes No

Preparation Information Benchsheet

Prep Run#: 444156
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 9/3/24 12:38

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2410890-01	MB		50mL	6010D/Ag T, Al T, As D, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe D, Fe T, K T, Mg T, Mn D, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		HB:13 Well:D2 Temp:90.8C
2	RQ2410890-02	LCS		50mL	6010D/Ag T, Al T, As D, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe D, Fe T, K T, Mg T, Mn D, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/236952; 0.5000 mL/237092; 0.5000 mL/233429	On HB:16:50 HB Shutoff:2:50 Pipet/Repipettor:M340,MA100,M23
3	R2408139-001	OLN-RU011-F009	.08	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		Tier IV
4	R2408139-002	OLN-RU009-F009	.08	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
5	R2408139-003	OLN-RU-016-F009	.08	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Yellow-Cloudy/Colorless-Clear		
6	R2408139-004	OLN-FD001-D009	.08	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Yellow-Cloudy/Colorless-Clear		
7	R2408139-005	OLN-RU015-F009	.08	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
8	R2408139-007	OLN-RU010-F009	.08	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
9	R2408139-008	OLN-RU008-F009	.08	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
10	RQ2410890-03	R2408139-008 MS	.08	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear	0.5000 mL/236952; 0.5000 mL/233429; 0.5000 mL/237092	
11	RQ2410890-04	R2408139-008 DMS	.08	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear	0.5000 mL/237092; 0.5000 mL/233429; 0.5000 mL/236952	
12	R2408139-010	OLN-RU27A-F009	.08	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
13	R2408139-012	OLN-RU019-F009	.08	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
14	R2408139-013	OLN-FB003-B009	.08	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
15	R2408364-001	MW-3D	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		Tier IV
16	R2408364-002	MW-29D	.04	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
17	R2408364-003	MW-28D	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
18	R2408364-004	MW-3S	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 444156
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 9/3/24 12:38

19	R2408364-005	MW-7RS	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
20	R2408364-006	MW-7RD	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
21	R2408364-007	MW-8RS	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
22	R2408364-008	MW-8RDR	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
23	R2408364-009	MW-25D	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
24	RQ2410890-05	R2408364-009 MS	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear	0.5000 mL/233429; 0.5000 mL/236952; 0.5000 mL/237092	
25	RQ2410890-06	R2408364-009 DMS	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear	0.5000 mL/233429; 0.5000 mL/237092; 0.5000 mL/236952	
26	R2408364-010	MW-25S	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	233429	Logbook Ref:	233429	Expires On:	07/31/2025	Lot #: 2400837-5
Name:	Custom LCS STD B Metals	Inventory ID	236952	Logbook Ref:	236952	Expires On:	01/31/2025	
Name:	C Spike	Inventory ID	237092	Logbook Ref:	236800	Expires On:	01/31/2025	

Preparation Materials

1:1 HCl Metals Grade	1:1 235981 (235982)	Hot Block Cups	50mL Lot 2206050 (230501)	Nitric Acid Metals Grade HNO3 235979 (235979)
Thermometer	460 (230830)			

Preparation Information Benchsheet

Prep Run#: 444156
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 9/3/24 12:38

Preparation Steps

Step: Digestion
Started: 9/3/24 12:38
Finished: 9/4/24 14:29
By: CDISTEFANO
Comments

8139 (M) 9112
8364 (M) 9/9

6010

Comments: _____

Reviewed By: _____ Date: 9/4/24

Chain of Custody

Relinquished By: _____ Date: 9/4/24
Received By: R-A01 Date: 9/4/24

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 444157
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 9/3/24 12:38

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2410891-01	MB		50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		HB:13 Well:D2 Temp:90.8C
2	RQ2410891-02	LCS		50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear	0.5000 mL/233429; 0.5000 mL/237092; 0.5000 mL/236952	On HB:16:50 HB Shutoff:2:50 Pipet/Repipettor:M340,MA100,M23
3	RQ2410891-03	DLCS		50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear	0.5000 mL/233429; 0.5000 mL/237092; 0.5000 mL/236952	
4	R2408385-001	MW-07S	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
5	R2408385-002	MW-18S	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
6	R2408385-003	MW-08SR	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
7	R2408385-004	MW-19S	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
8	R2408385-005	MW-14S	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
9	R2408385-006	MW-14D	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
10	R2408385-007	MW-27S	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
11	R2408385-008	MW-27D	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
12	R2408385-009	MW-13S	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
13	R2408385-010	MW-13D	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
14	R2408385-011	MW-15S	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
15	R2408385-012	MW-15D	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
16	R2408385-013	MW-17S	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
17	R2408385-014	MW-16S	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
18	R2408385-015	MW-24S	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
19	R2408385-016	MW-20S	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
20	R2408385-017	MW-21D	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
21	R2408385-018	MW-23SR	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
22	R2408385-019	MW-23DR	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
23	R2408385-020	DUP-02	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 444157
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 9/3/24 12:38

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	233429	Logbook Ref:	233429	Expires On:	07/31/2025	Lot #:	2400837-5
Name:	Custom LCS STD B Metals	Inventory ID	236952	Logbook Ref:	236952	Expires On:	01/31/2025		
Name:	C Spike	Inventory ID	237092	Logbook Ref:	236800	Expires On:	01/31/2025		

Preparation Materials

1:1 HCl Metals Grade	1:1 235981 (235982)	Hot Block Cups	50mL Lot 2206050 (230501)	Nitric Acid Metals Grade HNO3 235979 (235979)
Thermometer	460 (230830)			

Preparation Steps

Step: Digestion
Started: 9/3/24 12:38
Finished: 9/4/24 14:48
By: CDISTEFANO
Comments

8385 9/10
(1-20)

Gold

Comments: _____

Reviewed By: [signature] Date: 9/4/24

Chain of Custody

Relinquished By: [signature] Date: 9/4/24

Received By: 02-701 Date: 9/4/24

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 444003
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 8/29/24 10:35

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2410710-01	MB		10mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			10.00mL	Colorless-Clear		HB:12 Well:H2 Temp:93.3C
2	RQ2410710-02	LCS		10mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			10.00mL	Colorless-Clear	0.5000 mL/236800; 0.5000 mL/233429; 0.5000 mL/236952	On HB:15:30 HB Shutoff:1:30 Pipet/Repipettor:M340,MA100,M23
3	RQ2410710-03	DLCS		10mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			10.00mL	Colorless-Clear	0.5000 mL/236800; 0.5000 mL/236952; 0.5000 mL/233429	
4	R2408247-001	MW-17RS	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
5	R2408247-002	MW-22S	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
6	R2408247-003	MW-32S	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
7	R2408247-004	MW-21S	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
8	R2408247-005	DUPE-Y	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
9	R2408247-006	MW-31S	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
10	R2408247-007	MW-30S	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 444003
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 8/29/24 10:35

11	R2408247-008	MW-20S	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
12	R2408247-009	MW-23D	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
13	R2408247-010	MW-33D	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
14	R2408247-011	MW-19RD	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
15	R2408247-012	MW-18RD	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
16	R2408293-001	MW-33S	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
17	R2408293-002	MW-23S	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
18	R2408293-003	MW-24RRS	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
19	R2408293-004	DUPE-X	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
20	R2408293-005	MW-24RRD	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 444003
Team: Metals/CDISTEFANO
Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A
Status: Prepped
Prep Date/Time: 8/29/24 10:35

21	R2408293-006	MW-19RS	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
22	R2408293-007	MW-18S	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	233429	Logbook Ref:	233429	Expires On:	07/31/2025 Lot #: 2400837-5
Name:	C Spike	Inventory ID	236800	Logbook Ref:	236800	Expires On:	01/31/2025
Name:	Custom LCS STD B Metals	Inventory ID	236952	Logbook Ref:	236952	Expires On:	01/31/2025

Preparation Materials

1:1 HCl Metals Grade 1:1 235981 (235982) Hot Block Cups 50mL Lot 2206050 (230501) Nitric Acid Metals Grade HNO3 235979 (235979)
Thermometer 462 (230832)

Preparation Steps

Step: Digestion
Started: 8/29/24 10:35
Finished: 8/30/24 12:55
By: CDISTEFANO
Comments

8247 9/6 (IV)
8293 9/6 (IR)

9/6
60105

Comments:

Reviewed By: Nicole Manson Date: 8/31/24

Chain of Custody

Relinquished By: Date: 8/30/24
Received By: R. Aoi Date: 8/30/24

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 444014
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigLP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 8/29/24 11:57

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2410688-01	MB	.01	50mL	6010D/Ag TCLP, As TCLP, Ba TCLP, Be TCLP, Cd TCLP, Cr TCLP, Ni TCLP, Pb TCLP, Sb TCLP, Se TCLP, Tl TCLP, V TCLP, Zn TCLP	<2			50.00mL	Colorless-Clear		
2	RQ2410688-02	MB	.02	50mL	6010D/Ag TCLP, As TCLP, Ba TCLP, Be TCLP, Cd TCLP, Cr TCLP, Ni TCLP, Pb TCLP, Sb TCLP, Se TCLP, Tl TCLP, V TCLP, Zn TCLP	<2			50.00mL	Colorless-Clear		
3	RQ2410689-01	MB	.01	50mL	6010D/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP	<2			50.00mL	Colorless-Clear		
4	RQ2410717-01	MB		50mL	6010D/Ag TCLP, As TCLP, Ba TCLP, Be TCLP, Cd TCLP, Cr TCLP, Ni TCLP, Pb TCLP, Sb TCLP, Se TCLP, Tl TCLP, V TCLP, Zn TCLP	<2			50.00mL	Colorless-Clear		HB:12 Well:H2 Temp:93.3C
5	RQ2410717-02	LCS		50mL	6010D/Ag TCLP, As TCLP, Ba TCLP, Be TCLP, Cd TCLP, Cr TCLP, Ni TCLP, Pb TCLP, Sb TCLP, Se TCLP, Tl TCLP, V TCLP, Zn TCLP	<2			50.00mL	Colorless-Clear	0.0500 mL/234619; 1.0000 mL/236590; 0.0500 mL/230313; 0.0200 mL/230311; 0.0500 mL/233695	On HB:15:30 HB Shutoff:1:30 Pipet/Repipettor:M340,MA100,M28,M39
6	R2407832-001	S-01	.12	50mL	6010D/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP	<2			50.00mL	Colorless-Clear		
7	R2407832-002	S-02	.11	50mL	6010D/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP	<2			50.00mL	Colorless-Clear		
8	R2407832-003	S-03	.12	50mL	6010D/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP	<2			50.00mL	Colorless-Clear		
9	R2407900-001	Drum	.05	50mL	6010D/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP	<2			50.00mL	Colorless-Clear		
10	R2408088-001	2408200800E B650	.02	50mL	6010D/Ag TCLP, As TCLP, Ba TCLP, Be TCLP, Cd TCLP, Cr TCLP, Ni TCLP, Pb TCLP, Sb TCLP, Se TCLP, Tl TCLP, V TCLP, Zn TCLP	<2			50.00mL	Colorless-Clear		
11	R2408088-002	2408200800F B650	.02	50mL	6010D/Ag TCLP, As TCLP, Ba TCLP, Be TCLP, Cd TCLP, Cr TCLP, Ni TCLP, Pb TCLP, Sb TCLP, Se TCLP, Tl TCLP, V TCLP, Zn TCLP	<2			50.00mL	Colorless-Clear		
12	R2408209-001	QBU 13.58 - Paint	.02	50mL	6010D/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP	<2			50.00mL	Pink-Cloudy/Colorless-Clear		
13	R2408209-002	QBU 13.58 - Poly PPE	.03	50mL	6010D/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP	<2			50.00mL	Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 444014 **Prep WorkFlow:** MetDigLP **Status:** Prepped
Team: Metals/CDISTEFANO **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 8/29/24 11:57

14	R2408216-001	KLOCK Flow Back	.03	50mL	6010D/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP	<2			50.00mL	Colorless-Clear		
15	R2408228-001	CRH WC01-082324	.08	50mL	6010D/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Ni TCLP, Pb TCLP, Se TCLP	<2			50.00mL	Colorless-Clear		
16	R2408228-002	CRH WC02-082324	.03	50mL	6010D/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Ni TCLP, Pb TCLP, Se TCLP	<2			50.00mL	Colorless-Clear		
17	RQ2410717-03	R2408228-002 MS	.03	50mL	6010D/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Ni TCLP, Pb TCLP, Se TCLP	<2			50.00mL	Colorless-Clear	1.0000 mL/236590	
18	RQ2410717-04	R2408228-002 DMS	.03	50mL	6010D/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Ni TCLP, Pb TCLP, Se TCLP	<2			50.00mL	Colorless-Clear	1.0000 mL/236590	

Spiking Solutions

Name:	Beryllium 1000 ug/mL Be	Inventory ID	230311	Logbook Ref:	230311	Expires On:	01/31/2025	Lot #:	2312312-1
Name:	Antimony 1000 ug/mL Sb	Inventory ID	230313	Logbook Ref:	230313	Expires On:	01/31/2025	Lot #:	2312340-1
Name:	Thallium 1000 ug/mL Tl	Inventory ID	233695	Logbook Ref:	233695	Expires On:	08/31/2025	Lot #:	2323307-1
Name:	Vanadium 1000 ug/mL V	Inventory ID	234619	Logbook Ref:	234619	Expires On:	05/02/2026	Lot #:	1446750
Name:	TCLP Spike	Inventory ID	236590	Logbook Ref:	236590	Expires On:	01/14/2025		

Preparation Materials

1:1 HCl Metals Grade	1:1 235981 (235982)	Hot Block Cups	50mL Lot 2206050 (230501)	Hydrochloric Acid (HCl) Metals Grade	235981 (235981)
Nitric Acid Metals Grade HNO3	235979 (235979)	Thermometer	462 (230832)		

Preparation Steps

Step: Digestion
Started: 8/29/24 11:57
Finished: 8/30/24 13:24
By: CDISTEFANO
Comments

Comments: _____

Reviewed By: Nicole Mansen Date: 8/31/24

Preparation Information Benchsheet

Prep Run#: 444014
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigLP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 8/29/24 11:57

7832 9/2
7900 8/30 * RUSH
8088 9/3
8209 9/6
8216 9/6
8228 9/6 TCLP

Chain of Custody

Relinquished By:	CA	Date:	8/30/24	Extracts Examined
Received By:	R. Aoi	Date:	8/30/24	Yes No

ICP ICV/CCV Standard

Standard is prepared daily

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 1	Ca	233888	5000	1.00	200	25.00
	Mg		5000			25.00
	K		5000			25.00
	Na		5000			25.00
Cal Std 2	Ag	233889	100	1.00		0.50
	Cr		100			0.50
	Mn		150			0.75
	Ni		400			2.00
	Zn		200			1.00
Cal Std 3	Al	235477	2000	1.00		10.00
	Ba		2000			10.00
	Be		50			0.25
	Co		500			2.50
	Cu		250			1.25
	Fe		1000			5.00
	V		500			2.50
Cal Std 4	As	235157	100	2.00		1.00
	Cd		50			0.50
	Pb		50			0.50
	Se		50			0.50
	Tl		100			1.00
	Sb	235285	1000	1.00		5.00
	Sn	235152	1000	1.00		5.00
	B	231910	1000	0.50		2.50
	Mo	233427	1000	0.50		2.50
	Ti	233840	1000	0.50		2.50
	Sr	230304	1000	0.50		2.50
	Si	235479	1000	2.00		10.00

Matrix	Analyst/ Date	Letter ID	HNO3 Lot #	HCl Lot #	Expiration Date	Pipet ID
10% HNO3 5% HCl	NM 7/25/24	A	235979	234782	7/26/24	M36
2% HNO3 5% HCl	EC 7/26/24	B	235979	234782	7/27/24	M36
10% HNO3 5% HCl	NM 7/29/24	C	235979	234782	7/30/24	M36
10% HNO3 5% HCl	EC 7/31/24	D	235979	235981	8/1/24	M40
2% HNO3 5% HCl	NM 7/31/24	E	235979	235981	8/1/24	M40
10% HNO3 5% HCl	NM 8/2/24	F	235979	235981	8/3/24	M36
2% HNO3 5% HCl	NM 8/5/24	G	235979	235981	8/6/24	M36
10% HNO3 5% HCl	NM 8/6/24	H	235979	235981	8/7/24	M36
2% HNO3 5% HNO3	NM 8/7/24	I	235979	235981	8/8/24	M40
10% HNO3 5% HCl	NM 8/8/24	J	235979	235981	8/9/24	M40
10% HNO3 5% HCl	NM 8/9/24	K	235979	235981	8/10/24	M40
10% HNO3 5% HCl	NM 8/13/24	L	235979	235981	8/14/24	M40
2% HNO3 5% HCl	NM 8/14/24	M	235979	235981	8/15/24	M40
10% HNO3 5% HCl	NM 8/15/24	N	235979	235981	8/16/24	M36
10% HNO3 5% HCl	NM 8/19/24	O	235979	235981	8/20/24	M40
2% HNO3 5% HCl	NM 8/21/24	P	235979	235981	8/22/24	M36
10% HNO3 5% HCl	NM 8/21/24	Q	235979	235981	8/22/24	M40
2% HNO3 5% HCl	NM 8/22/24	R	235979	235981	8/23/24	M36
10% HNO3 5% HCl	EC 8/23/24	S	235979	235981	8/24/24	M40
2% HNO3 5% HCl	EC 8/26/24	T	235979	235981	8/27/24	M40
10% HNO3 5% HCl	NM 8/27/24	U	235979	235981	8/28/24	M40
2% HNO3 5% HCl	NM 8/28/24	V	235979	235981	8/29/24	M40
10% HNO3 5% HCl	NM 8/29/24	W	235979	235981	8/30/24	M40
10% HNO3 5% HCl	NM 8/31/24	X	235979	235981	9/1/24	M40
10% HNO3 5% HCl	EC 9/4/24	Y	235979	235981	9/5/24	M40
		Z				
		AA				
		BB				
		CC				
		DD				

ICP Calibration Standard #1

Standard is prepared every 6 months or as necessary

Metal	ALS Lot #	Conc. (ppm)	Vol (mls)	Final Vol (mls)	Final Conc. (ppm)
Al	233887	10000	0.01	1000	0.100
As	230302	1000	0.01		0.010
Ba	233717	1000	0.02		0.020
Be	230311 (1/10)	100	0.03		0.003
Cd	234567 (1/10)	100	0.05		0.005
Cu	230454	1000	0.01		0.010
Mn	233718	1000	0.01		0.010
Mo	233720	1000	0.025		0.025
Pb	233694 (1/10)	100	0.05		0.050
Sb	230313	1000	0.06		0.060
Tl	233695	1000	0.01		0.010

Matrix	Analyst/ Date	Letter ID	HNO3 Lot #	HCl Lot #	Expiration Date	Pipet ID
2% HNO3 5% HCl	NM 6/28/24	**A**	235024	234782	12/28/24	M39
10% HNO3 5% HCl	NM 7/29/24	**B**	235979	234782	TS: 1/14/25	M37
		C				
		D				
		E				
		F				
		G				
		H				
		I				
		J				
		K				
		L				
		M				
		N				
		O				
		P				
		Q				
		R				
		S				
		T				
		U				
		V				
		W				
		X				
		Y				
		Z				

ICP Calibration Standard 6

Standard is prepared every 6 months or as necessary

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 2	Ag	234476	100	5.00	500	1.00
	Cr		100			1.00
	Mn		150			1.50
	Ni		400			4.00
	Zn		200			2.00
Cal Std 3	Al	233055	2000	5.00		20.00
	Ba		2000			20.00
	Be		50			0.50
	Co		500			5.00
	Cu		250			2.50
	Fe		1000			10.00
	V		500			5.00
Cal Std 4	As	231798	100	10.00		2.00
	Cd		50			1.00
	Pb		50			1.00
	Se		50			1.00
	Tl		100			2.00
	Ca	230305	10000	2.50		50.00
	Mg	230307	10000	2.50		50.00
	K	233452	10000	2.50		50.00
	Na	230308	10000	2.50		50.00
	Sb	230313	1000	5.00		10.00
	Sn	234660	1000	5.00		10.00
	B	233693	1000	5.00		10.00
	Mo	233720	1000	2.50		5.00
	Ti	235397	1000	2.50		5.00
	Sr	230310	1000	2.50		5.00
	Si	234659	10000	~~25.00~~ 2.50 NM 7/29/24		50.00

Matrix	Analyst/ Date	Letter ID	HNO3 Lot #	HCl Lot #	Expiration Date	Pipet ID
10% HNO3 5% HCl	NM 7/29/24	A	235979	234782	11/2/24	M38
		B				
		C				
		D				
		E				
		F				
		G				
		H				
		I				
		J				
		K				
		L				
		M				
		N				
		O				
		P				
		Q				
		R				
		S				
		T				
		U				
		V				
		W				
		X				
		Y				
		Z				

ICP HLCCV Standard

Standard is prepared every 6 months or as necessary

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 2	Ag	234476	100	4.00	200	2.00
	Cr		100			Below
	Mn		150			Below
	Ni		400			8.00
	Zn		200			Below
Cal Std 3	Al	233055	2000	4.00		Below
	Ba		2000			40.00
	Be		50			1.00
	Co		500			10.00
	Cu		250			Below
	Fe		1000			Below
	V		500			10.00
Cal Std 4	As	231798	100	8.00		4.00
	Cd		50			2.00
	Pb		50			Below
	Se		50			Below
	Tl		100			4.00
	Ca	230305	10000	5.00		250.00
	K	233452	10000	2.00		100.00
	Mg	230307	10000	10.00		500.00
	Na	230308	10000	5.00		250.00
	Al	233887	10000	9.20		500.00
	Fe	230306	1000	1.60		100.00
	B	233693	1000	10.00		50.00
	Mo	233720	1000	2.00		10.00
	Ti	235397	1000	2.00		10.00
	Sr	230310	1000	2.00		10.00
	Cr	230312	1000	1.60		10.00
	Pb	233694	1000	1.60		10.00
	Se	230309	1000	1.60		10.00
	Mn	233718	1000	1.40		10.00
	Zn	233723	1000	1.20		10.00
	Cu	230454	1000	3.00		20.00
	Si	234659	10000	~~20.00~~ 2.00		100.00

Matrix	Analyst/ Date	Letter ID	HNO3 Lot #	HCl Lot #	Expiration Date	Pipet ID
10% HNO3 5% HCl	NM 7/12/24	A	235979	234782	11/2/24	M38 M36
2% HNO3 5% HCl	NM 7/26/24	B	235979	234782	11/2/24	M38 M40
		C				
		D				
		E				
		F				
		G				
		H				
		I				
		J				
		K				
		L				
		M				
		N				
		O				
		P				
		Q				
		R				
		S				
		T				
		U				
		V				
		W				
		X				
		Y				
		Z				

ICP HLCCV3 (Standard is prepared every 6 months or as necessary)

/HLCCVB

Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst / Date	Letter ID	Nitric Acid Lot #	HCL Lot #	Expiration Date	Pipet ID
CA	230305	10,000	~~2.000~~ 4.000	~~100~~ 200	200.00	2% HNO_3 5% HNO_3	MFM 4/24/24	A	233477	233283	10/24/24	M36 M38
CU	230454	1000	~~0.400~~ 0.800		4.00	10% HNO_3 5% HCl	NM 5/16/24	B	233477	233283	11/2/24	M40 M38
FE	230306	10,000	~~0.400~~ 0.800		40.00			C				
K	233452	10,000	~~1.000~~ 2.000		100.00			D				
TL	233695	1000	~~0.300~~ 0.600		3.00			E				
NA	230308	10,000	~~1.500~~ 3.000		150.00			F				
MG	230307	10,000	~~4.000~~ 8.000		400.00			G				
								H				
								I				
								J				
								K				
								L				
								M				
								N				
								O				
								P				
								Q				
								R				
								S				
								T				
								U				

ICP Mixed SIC/ ICSA Standard

Standard is prepared every 6 months or as necessary

	Metal	ALS Lot #	Conc. (ppm)	Vol (mls)	Final Vol (mls)	Final Conc. (ppm)
Inter. A Soln	**Al**	236126	5000	50	500	500.0
	Ca	↓	5000			500.0
	Fe		2000			100.0
	Mg		5000			250.0

Matrix	Analyst/ Date	Letter ID	HNO3 Lot #	HCl Lot #	Expiration Date	Pipet ID
10% HNO3 5% HCl	NM 7/12/24	**A**	235929 ~~235924~~ NM 7/12/24	234782	1/12/25	dispo
		B				
		C				
		D				
		E				
		F				
		G				
		H				
		I				
		J				
		K				
		L				
		M				
		N				
		O				
		P				
		Q				
		R				
		S				
		T				
		U				
		V				
		W				
		X				
		Y				
		Z				

ICP Internal Standard Solution

Standard is prepared every 6 months or as necessary

(Added In-line)

Metal	ALS Lot #	Conc. (ppm)	Vol (mls)	Final Vol (mls)	Final Conc. (ppm)
Y	233696	10000	2.00	2000	10.0
Cs	233726	10000	2		10.0

Matrix	Analyst/ Date	Letter ID	HNO3 Lot #	HCl Lot #	Expiration Date	Pipet ID
2% HNO3/ 5% HCl	NM 6/11/24	A	235024	233783	12/11/24	M36
	NM 6/11/24	B	235024	233783	12/11/24	M36
	NM 6/25/24	C	235024	234782	12/25/24	M36
	NM 6/25/24	D	235024	234782	12/25/24	M36
	NM 7/16/24	E	235979	234782	1/16/25	M36
	NM 7/16/24	F	235979	234782	1/16/25	M36
	NM 8/6/24	G	235979	235981	2/6/25	M36
	NM 8/6/24	H	235979	235981	2/6/25	M36
	NM 8/27/24	I	235979	235981	2/27/24	M40
	NM 8/27/24	J	235979	235981	2/27/24	M40
		K				
		L				
		M				
		N				
		O				
		P				
		Q				
		R				
		S				
		T				
		U				
		V				
		W				
		X				
		Y				
		Z				

7900 ICP-MS 200.8/6020A
Sample Report

Sample Name	MIXED SIC CHECK
File Name	064SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\BatchTemplate\071224-MS7900.b
Acq Time	07/12/24 15:33:03
Sample Type	Sample
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	017CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	QC Flag
Be	9	45	No Gas	0.544	ppb	10.0	971.15	
Al	27	72	No Gas	322444.426	ppb	4.5	5612154514.77	>LDR
V	51	72	He	0.436	ppb	6.1	2732.49	
Cr	52	72	No Gas	1.521	ppb	5.3	73591.58	
Mn	55	72	No Gas	2.187	ppb	6.5	107919.86	
Co	59	72	He	1.801	ppb	2.1	20840.82	
Ni	60	72	No Gas	3.840	ppb	3.3	36625.17	
Cu	63	72	No Gas	1.557	ppb	5.7	37782.21	
Zn	66	72	No Gas	13.477	ppb	6.3	87873.52	
As	75	72	No Gas	0.337	ppb	187.4	1856.60	
Se	78	72	He	0.284	ppb	39.3	79.33	
Se	82	72	No Gas	1.412	ppb	13.9	636.20	
Mo	98	89	No Gas	0.609	ppb	8.2	11393.09	
Ag	107	89	No Gas	0.525	ppb	39.0	15625.66	
Cd	111	89	No Gas	0.040	ppb	41.4	1844.92	
Sb	123	89	No Gas	1.599	ppb	36.3	31605.47	
Ba	137	115	No Gas	1.096	ppb	5.8	9460.01	
Tl	203	115	No Gas	0.136	ppb	54.6	1867.95	
Pb	208	115	No Gas	3.825	ppb	3.1	158862.77	
Th	232	115	No Gas	5.755	ppb	74.8	203228.61	
U	238	115	No Gas	0.101	ppb	69.9	3412.86	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4808164.11	4.6	4532583.29	106.08	60	125	
Sc	45	He	234013.32	1.7	213409.89	109.65	60	125	
Ge	72	No Gas	3656053.33	4.9	3361580.56	108.76	60	125	
Ge	72	He	510426.87	2.0	432580.99	118	60	125	
Y	89	No Gas	5149165.63	1.0	4860989.67	105.93	60	125	
Y	89	He	747082.99	2.6	669269.97	111.63	60	125	
Rh	103	No Gas	4007497.76	3.8	4190673.03	95.63	60	125	
Rh	103	He	1858212.01	2.7	1872215.83	99.25	60	125	
In	115	No Gas	4446155.24	1.0	4430208.29	100.36	60	125	
Lu	175	No Gas	20700.78	3.8	17529.44	118.09	60	125	

Metals Data Cover Sheet

Run Date: 9/6/2024

Data File: 090624-ICP7

Primary Reviewer: N. Mansen

Secondary Reviewer: C.Kutzer

LIMS Runs:	LIMS Preps:	
853308	444261	T2
853309	444147,444156,444157	CCV4
853310	444182	CCV5
853311	444183	CCV4
853312	444184	CCV4

Comments:
N/A

ICP-7 Run Log

Serial number: MY2309CQ22

Analyst: EC Date: 9/6/24 Data File: 090624-ICP7

	Prep Date	Lot #
MRL	—	—
ICSA/SIC	7/12/24	M87500046A
ICSAB	—	—
Int. Std	8/27/24	M87500S7J
ICV/CCV	9/6/24	M87500722Z

	Prep Date	Lot #
Cal Std 1	7/29/24	M87500038
Cal Std 2 1/100 Cal 6,	3 1/50 Cal 6 4 1/10 Cal 6	5 1/5 Cal 6
Cal Std ~~5/HLCCV1~~ 6	7/29/24	M87500144A
HLCCV2 A	7/12/24	M87500036A
HLCCV3 B	8/15/24	M87501018

~~(Cal Std 4 is a 1/5 and Cal Std 3 is a 1/100 dilution of Cal Std 5)~~ EC 9/6/24

Blank Prep - Daily	NHO3	HCl	Pipet Used	DOD Pipet Verification	IEC Date
Lot	235979	235981	M37, M40	—	—

1:1	PBS-444261 F	
1:2	LCSS-444261 F	
1:3	R2408392-001 F	
1:4	R2408411-004	
1:5	R2408442-001	
1:6	R2408442-001S	
1:7	R2408442-001SD	
1:8	R2408442-001A	
1:9	R2408442-001L 5X	
1:10	R2408481-003	
S1:3	Continuing Calibration Verification	
S1:4	Continuing Calibration Blank	
1:11	R2408392-001 3X	
1:12	R2408411-004 3X	
1:13	R2408442-001 3X	
1:14	R2408442-001S 3X	
1:15	R2408442-001SD 3X	
1:16	R2408442-001A 3X	
1:17	R2408442-001L 15X	
1:18	R2408481-003 3X	
S1:3	Continuing Calibration Verification	
S1:4	Continuing Calibration Blank	
1:19	PBW-444147	
1:20	LCSW-444147	
1:21	DLCSW-444147	
1:22	R2408146-077 100X	
1:23	R2408346-002 2X	
1:24	R2408346-002L 10X	
S1:3	Continuing Calibration Verification	
S1:4	Continuing Calibration Blank	
1:25	PBW-444156	
1:26	LCSW-444156	
1:27	R2408139-003 3X	
1:28	R2408139-004 3X	
1:29	R2408139-007	
1:30	R2408139-010 5X	
1:31	R2408139-012 5X	
1:32	R2408364-004 10X	
1:33	R2408364-007 10X	
1:34	R2408364-007L 50X	
S1:3	Continuing Calibration Verification	
S1:4	Continuing Calibration Blank	
1:35	PBW-444157	
1:36	LCSW-444157	
1:37	DLCSW-444157	
1:38	R2408385-018 3X	
1:39	R2408385-019 5X	
1:40	R2408385-020 5X	
1:41	R2408385-020L 25X	

S1:3	Continuing Calibration Verification
S1:4	Continuing Calibration Blank
1:42	PBW-444182
1:43	LCSW-444182
1:44	R2407966-001
1:45	R2407966-003
1:46	R2407966-005
1:47	R2407966-005S
1:48	R2407966-005SD
1:49	R2407966-005A
1:50	R2407966-005L 5X
1:51	R2407966-007
S1:3	Continuing Calibration Verification
S1:4	Continuing Calibration Blank
1:52	R2407966-009
1:53	R2408092-001
1:54	R2408092-003
1:55	R2408092-005
1:56	R2408094-001
1:57	R2408094-003
1:58	R2408152-001
1:59	R2408152-003
S1:3	Continuing Calibration Verification
S1:4	Continuing Calibration Blank
1:60	R2408152-003S
2:1	R2408152-003SD
2:2	R2408152-003A
2:3	R2408152-003L 5X
2:4	R2408152-005
2:5	R2408152-007
2:6	R2408155-001
S1:3	Continuing Calibration Verification
S1:4	Continuing Calibration Blank
2:7	R2408168-001
2:8	R2408168-003
2:9	R2408168-005
~~2:10~~	~~R2408168-005~~ EC 9/6/24
2:11	R2408390-001
2:12	R2408390-002
S1:3	Continuing Calibration Verification
S1:4	Continuing Calibration Blank

2:13	PBW-444183
2:14	LCSW-444183
2:15	R2408253-001
2:16	R2408253-001S
2:17	R2408253-001SD
2:18	R2408253-001A
2:19	R2408253-001L 5X
2:20	R2408253-003
2:21	R2408253-005
2:22	R2408253-007
S1:5	Continuing Calibration Verification1
S1:6	Continuing Calibration Blank1
2:23	R2408253-009
2:24	R2408253-011
2:25	R2408253-013
2:26	R2408253-015
2:27	R2408253-017
2:28	R2408253-019
2:29	R2408253-021
2:30	R2408253-023
2:31	R2408253-025
2:32	R2408253-027
S1:5	Continuing Calibration Verification1
S1:6	Continuing Calibration Blank1
2:33	R2408253-029
2:34	R2408253-031
2:35	R2408253-033
2:36	R2408253-035
2:37	R2408253-037
2:38	R2408253-039
2:39	R2408253-039S
2:40	R2408253-039SD
2:41	R2408253-039A
2:42	R2408253-0439L 5X
S1:5	Continuing Calibration Verification1
S1:6	Continuing Calibration Blank1

2:43	PBW-444184
2:44	LCSW-444184
2:45	R2408254-001
2:46	R2408254-003
2:47	R2408254-005
2:48	R2408254-007
2:49	R2408254-009
2:50	R2408254-009S
2:51	R2408254-009SD
2:52	R2408254-009A
S1:5	Continuing Calibration Verification1
S1:6	Continuing Calibration Blank1
2:53	R2408254-009L 5X
2:54	R2408254-011
2:55	R2408254-013
2:56	R2408254-015
2:57	R2408254-017
2:58	R2408254-019
2:59	R2408254-021
2:60	R2408254-023
3:1	R2408254-025
3:2	R2408254-027
S1:5	Continuing Calibration Verification1
S1:6	Continuing Calibration Blank1
3:3	R2408254-029
3:4	R2408254-031
3:5	R2408254-033
3:6	R2408254-035
3:7	R2408254-037
3:8	R2408254-039
3:9	R2408254-039S
3:10	R2408254-039SD
3:11	R2408254-039A
3:12	R2408254-039L 5X
S1:5	Continuing Calibration Verification1
S1:6	Continuing Calibration Blank1

EC 9/6/24

Created Date/Time	9/6/2024 12:35:58	Software Version	7.6.1.12212
Instrument Name	MY2309CQ22	Firmware Version	5590
File Path	C:\Agilent\ICP Expert\My Results\2024\090624-ICP7.esws		
Notes	EC 9/6/24		

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
9/6/2024 15:02:17	Blank	Ag (328.068 nm)	0.0000	N/A	17.4712
	Blank	Al (237.312 nm)	0.0000	N/A	-10.9971
	Blank	As (188.980 nm)	0.0000	N/A	-3.8878
	Blank	B (249.772 nm)	0.0000	N/A	113.6208
	Blank	Ba (230.424 nm)	0.0000	N/A	8.3477
	Blank	Be (313.107 nm)	0.0000	N/A	-14.3999
	Blank	Ca (317.933 nm)	0.0000	N/A	3512.5413
	Blank	Cd (214.439 nm)	0.0000	N/A	8.0666
	Blank	Co (230.786 nm)	0.0000	N/A	1.3221
	Blank	Cr (267.716 nm)	0.0000	N/A	5.4206
	Blank	Cu (327.395 nm)	0.0000	N/A	-0.0863
	Blank	Fe (234.350 nm)	0.0000	N/A	71.1059
	Blank	K (766.491 nm)	0.0000	N/A	769.4135
	Blank	Mg (279.078 nm)	0.0000	N/A	0.3745
	Blank	Mn (257.610 nm)	0.0000	N/A	9.2186
	Blank	Mo (202.032 nm)	0.0000	N/A	6.2059
	Blank	Na (588.995 nm)	0.0000	N/A	-12926.6346
	Blank	Ni (230.299 nm)	0.0000	N/A	3.0826
	Blank	Pb (220.353 nm)	0.0000	N/A	-0.5318
	Blank	Sb (217.582 nm)	0.0000	N/A	4.3221
	Blank	Se (196.026 nm)	0.0000	N/A	2.5183
	Blank	Si (252.851 nm)	0.0000	N/A	70.9600
	Blank	Sn (189.925 nm)	0.0000	N/A	4.3139
	Blank	Sr (216.596 nm)	0.0000	N/A	5.7162
	Blank	Ti (336.122 nm)	0.0000	N/A	72.7653
	Blank	Tl (190.794 nm)	0.0000	N/A	-0.9213
	Blank	V (292.401 nm)	0.0000	N/A	9.7620
	Blank	Y (360.074 nm)	1.00	0.00	655343.35
	Blank	Y_R (360.074 nm)	1.00	0.00	655496.46
	Blank	Zn (213.857 nm)	0.0000	N/A	10.4356
9/6/2024 15:05:22	Standard 1	Ag (328.068 nm)		N/A	16.7936
	Standard 1	Al (237.312 nm)	0.1000	N/A	252.1321
	Standard 1	As (188.980 nm)	0.0100	N/A	11.4225
	Standard 1	B (249.772 nm)		N/A	343.6620
	Standard 1	Ba (230.424 nm)	0.0200	N/A	1219.9284
	Standard 1	Be (313.107 nm)	0.0030	N/A	3246.2611
	Standard 1	Ca (317.933 nm)		N/A	3889.7045
	Standard 1	Cd (214.439 nm)	0.0050	N/A	312.6605
	Standard 1	Co (230.786 nm)		N/A	2.4923
	Standard 1	Cr (267.716 nm)		N/A	13.3700
	Standard 1	Cu (327.395 nm)	0.0100	N/A	423.7436
	Standard 1	Fe (234.350 nm)		N/A	329.7275
	Standard 1	K (766.491 nm)		N/A	832.7690
	Standard 1	Mg (279.078 nm)		N/A	-2.0784
	Standard 1	Mn (257.610 nm)	0.0100	N/A	3505.7174
	Standard 1	Mo (202.032 nm)	0.0250	N/A	256.8335
	Standard 1	Na (588.995 nm)		N/A	-12765.9927
	Standard 1	Ni (230.299 nm)		N/A	5.2158
	Standard 1	Pb (220.353 nm)	0.0050	N/A	23.7254
	Standard 1	Sb (217.582 nm)	0.0600	N/A	131.8787
	Standard 1	Se (196.026 nm)		N/A	3.7388
	Standard 1	Si (252.851 nm)		N/A	635.1887

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Standard 1	Sn (189.925 nm)		N/A	10.3977
	Standard 1	Sr (216.596 nm)		N/A	4.8855
	Standard 1	Ti (336.122 nm)		N/A	99.8261
	Standard 1	Tl (190.794 nm)	0.0100	N/A	9.5477
	Standard 1	V (292.401 nm)		N/A	10.5044
	Standard 1	Y (360.074 nm)	1.00	0.55	654371.28
	Standard 1	Y_R (360.074 nm)	1.00	0.55	654527.11
	Standard 1	Zn (213.857 nm)		N/A	42.8112
9/6/2024 15:08:27	Standard 2	Ag (328.068 nm)	0.0100	N/A	598.2131
	Standard 2	Al (237.312 nm)	0.2000	N/A	512.6003
	Standard 2	As (188.980 nm)	0.0200	N/A	28.7117
	Standard 2	B (249.772 nm)	0.1000	N/A	4271.3098
	Standard 2	Ba (230.424 nm)	0.2000	N/A	12420.2863
	Standard 2	Be (313.107 nm)	0.0050	N/A	5768.9448
	Standard 2	Ca (317.933 nm)	0.5000	N/A	22493.9002
	Standard 2	Cd (214.439 nm)	0.0100	N/A	616.4024
	Standard 2	Co (230.786 nm)	0.0500	N/A	1033.7601
	Standard 2	Cr (267.716 nm)	0.0100	N/A	598.6850
	Standard 2	Cu (327.395 nm)	0.0250	N/A	1087.2683
	Standard 2	Fe (234.350 nm)	0.1000	N/A	2393.3749
	Standard 2	K (766.491 nm)	0.5000	N/A	1306.9292
	Standard 2	Mg (279.078 nm)	0.5000	N/A	1992.8207
	Standard 2	Mn (257.610 nm)	0.0150	N/A	5294.9508
	Standard 2	Mo (202.032 nm)	0.0500	N/A	519.2788
	Standard 2	Na (588.995 nm)	0.5000	N/A	-5821.9656
	Standard 2	Ni (230.299 nm)	0.0400	N/A	529.6013
	Standard 2	Pb (220.353 nm)	0.0100	N/A	55.6944
	Standard 2	Sb (217.582 nm)	0.1000	N/A	227.2117
	Standard 2	Se (196.026 nm)	0.0100	N/A	10.3564
	Standard 2	Si (252.851 nm)	0.5000	N/A	3239.4491
	Standard 2	Sn (189.925 nm)	0.1000	N/A	269.7893
	Standard 2	Sr (216.596 nm)	0.0500	N/A	959.2255
	Standard 2	Ti (336.122 nm)	0.0500	N/A	7557.5325
	Standard 2	Tl (190.794 nm)	0.0200	N/A	18.0237
	Standard 2	V (292.401 nm)	0.0500	N/A	1823.9144
	Standard 2	Y (360.074 nm)	1.00	0.56	655689.64
	Standard 2	Y_R (360.074 nm)	1.00	0.56	655839.37
	Standard 2	Zn (213.857 nm)	0.0200	N/A	1207.6321
9/6/2024 15:11:32	Standard 3	Ag (328.068 nm)	0.0200	N/A	1209.7476
	Standard 3	Al (237.312 nm)	0.4000	N/A	1048.0148
	Standard 3	As (188.980 nm)	0.0400	N/A	61.2668
	Standard 3	B (249.772 nm)	0.2000	N/A	8539.9964
	Standard 3	Ba (230.424 nm)	0.4000	N/A	25291.9482
	Standard 3	Be (313.107 nm)	0.0100	N/A	11904.0733
	Standard 3	Ca (317.933 nm)	1.0000	N/A	41635.8019
	Standard 3	Cd (214.439 nm)	0.0200	N/A	1240.2527
	Standard 3	Co (230.786 nm)	0.1000	N/A	2099.4970
	Standard 3	Cr (267.716 nm)	0.0200	N/A	1213.1181
	Standard 3	Cu (327.395 nm)	0.0500	N/A	2240.4273
	Standard 3	Fe (234.350 nm)	0.2000	N/A	4750.3824
	Standard 3	K (766.491 nm)	1.0000	N/A	1834.0320
	Standard 3	Mg (279.078 nm)	1.0000	N/A	4066.2769
	Standard 3	Mn (257.610 nm)	0.0300	N/A	10744.6635
	Standard 3	Mo (202.032 nm)	0.1000	N/A	1057.2202
	Standard 3	Na (588.995 nm)	1.0000	N/A	1057.9777
	Standard 3	Ni (230.299 nm)	0.0800	N/A	1078.3681
	Standard 3	Pb (220.353 nm)	0.0200	N/A	107.2972

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Standard 3	Sb (217.582 nm)	0.2000	N/A	455.3191
	Standard 3	Se (196.026 nm)	0.0200	N/A	16.1029
	Standard 3	Si (252.851 nm)	1.0000	N/A	6512.3797
	Standard 3	Sn (189.925 nm)	0.2000	N/A	545.8996
	Standard 3	Sr (216.596 nm)	0.1000	N/A	1946.2469
	Standard 3	Ti (336.122 nm)	0.1000	N/A	15323.8159
	Standard 3	Tl (190.794 nm)	0.0400	N/A	34.6458
	Standard 3	V (292.401 nm)	0.1000	N/A	3684.9594
	Standard 3	Y (360.074 nm)	0.98	3.07	642373.44
	Standard 3	Y_R (360.074 nm)	0.98	3.07	642514.27
	Standard 3	Zn (213.857 nm)	0.0400	N/A	2427.2406
9/6/2024 15:14:38	Standard 4	Ag (328.068 nm)	0.1000	N/A	5856.1149
	Standard 4	Al (237.312 nm)	2.0000	N/A	5131.7708
	Standard 4	As (188.980 nm)	0.2000	N/A	316.4208
	Standard 4	B (249.772 nm)	1.0000	N/A	41484.1656
	Standard 4	Ba (230.424 nm)	2.0000	N/A	122363.6945
	Standard 4	Be (313.107 nm)	0.0500	N/A	58901.2881
	Standard 4	Ca (317.933 nm)	5.0000	N/A	189143.9260
	Standard 4	Cd (214.439 nm)	0.1000	N/A	6006.6614
	Standard 4	Co (230.786 nm)	0.5000	N/A	10189.4909
	Standard 4	Cr (267.716 nm)	0.1000	N/A	5748.2975
	Standard 4	Cu (327.395 nm)	0.2500	N/A	11124.8482
	Standard 4	Fe (234.350 nm)	1.0000	N/A	22664.6258
	Standard 4	K (766.491 nm)	5.0000	N/A	6419.0703
	Standard 4	Mg (279.078 nm)	5.0000	N/A	19953.5221
	Standard 4	Mn (257.610 nm)	0.1500	N/A	51622.0818
	Standard 4	Mo (202.032 nm)	0.5000	N/A	5233.5553
	Standard 4	Na (588.995 nm)	5.0000	N/A	57697.8832
	Standard 4	Ni (230.299 nm)	0.4000	N/A	5172.9738
	Standard 4	Pb (220.353 nm)	0.1000	N/A	505.8451
	Standard 4	Sb (217.582 nm)	1.0000	N/A	2254.8508
	Standard 4	Se (196.026 nm)	0.1000	N/A	73.3766
	Standard 4	Si (252.851 nm)	5.0000	N/A	31707.4881
	Standard 4	Sn (189.925 nm)	1.0000	N/A	2632.1161
	Standard 4	Sr (216.596 nm)	0.5000	N/A	9457.5746
	Standard 4	Ti (336.122 nm)	0.5000	N/A	74200.5380
	Standard 4	Tl (190.794 nm)	0.2000	N/A	183.4114
	Standard 4	V (292.401 nm)	0.5000	N/A	18011.8918
	Standard 4	Y (360.074 nm)	0.99	0.58	647426.19
	Standard 4	Y_R (360.074 nm)	0.99	0.58	647539.57
	Standard 4	Zn (213.857 nm)	0.2000	N/A	11705.4025
9/6/2024 15:17:43	Standard 5	Ag (328.068 nm)	0.2000	N/A	11686.0860
	Standard 5	Al (237.312 nm)	4.0000	N/A	10246.0638
	Standard 5	As (188.980 nm)	0.4000	N/A	634.0140
	Standard 5	B (249.772 nm)	2.0000	N/A	83419.8533
	Standard 5	Ba (230.424 nm)	4.0000	N/A	242307.2395
	Standard 5	Be (313.107 nm)	0.1000	N/A	118255.9292
	Standard 5	Ca (317.933 nm)	10.0000	N/A	374052.2135
	Standard 5	Cd (214.439 nm)	0.2000	N/A	11983.7201
	Standard 5	Co (230.786 nm)	1.0000	N/A	20189.1963
	Standard 5	Cr (267.716 nm)	0.2000	N/A	11407.3279
	Standard 5	Cu (327.395 nm)	0.5000	N/A	22309.5627
	Standard 5	Fe (234.350 nm)	2.0000	N/A	44746.3568
	Standard 5	K (766.491 nm)	10.0000	N/A	12291.3055
	Standard 5	Mg (279.078 nm)	10.0000	N/A	39570.9908
	Standard 5	Mn (257.610 nm)	0.3000	N/A	102235.3823
	Standard 5	Mo (202.032 nm)	1.0000	N/A	10564.6518

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Standard 5	Na (588.995 nm)	10.0000	N/A	129385.8803
	Standard 5	Ni (230.299 nm)	0.8000	N/A	10257.6632
	Standard 5	Pb (220.353 nm)	0.2000	N/A	1005.1364
	Standard 5	Sb (217.582 nm)	2.0000	N/A	4535.2220
	Standard 5	Se (196.026 nm)	0.2000	N/A	145.3937
	Standard 5	Si (252.851 nm)	10.0000	N/A	62919.9503
	Standard 5	Sn (189.925 nm)	2.0000	N/A	5206.7643
	Standard 5	Sr (216.596 nm)	1.0000	N/A	18818.4902
	Standard 5	Ti (336.122 nm)	1.0000	N/A	148674.3681
	Standard 5	Tl (190.794 nm)	0.4000	N/A	363.2015
	Standard 5	V (292.401 nm)	1.0000	N/A	36062.4606
	Standard 5	Y (360.074 nm)	0.98	0.56	641399.34
	Standard 5	Y_R (360.074 nm)	0.98	0.56	641492.88
	Standard 5	Zn (213.857 nm)	0.4000	N/A	23439.3156
9/6/2024 15:20:48	Standard 6	Ag (328.068 nm)	1.0000	N/A	59519.4591
	Standard 6	Al (237.312 nm)	20.0000	N/A	51974.6937
	Standard 6	As (188.980 nm)	2.0000	N/A	3296.0921
	Standard 6	B (249.772 nm)	10.0000	N/A	431719.8743
	Standard 6	Ba (230.424 nm)	20.0000	N/A	1175203.9260
	Standard 6	Be (313.107 nm)	0.5000	N/A	595192.5736
	Standard 6	Ca (317.933 nm)	50.0000	N/A	1834705.3735
	Standard 6	Cd (214.439 nm)	1.0000	N/A	59689.5841
	Standard 6	Co (230.786 nm)	5.0000	N/A	99296.1700
	Standard 6	Cr (267.716 nm)	1.0000	N/A	56614.5614
	Standard 6	Cu (327.395 nm)	2.5000	N/A	114925.9116
	Standard 6	Fe (234.350 nm)	10.0000	N/A	221418.4650
	Standard 6	K (766.491 nm)	50.0000	N/A	62819.8418
	Standard 6	Mg (279.078 nm)	50.0000	N/A	199833.4768
	Standard 6	Mn (257.610 nm)	1.5000	N/A	506150.2477
	Standard 6	Mo (202.032 nm)	5.0000	N/A	53524.7716
	Standard 6	Na (588.995 nm)	50.0000	N/A	718254.1162
	Standard 6	Ni (230.299 nm)	4.0000	N/A	50428.2719
	Standard 6	Pb (220.353 nm)	1.0000	N/A	4913.9296
	Standard 6	Sb (217.582 nm)	10.0000	N/A	23252.0140
	Standard 6	Se (196.026 nm)	1.0000	N/A	739.8681
	Standard 6	Si (252.851 nm)	50.0000	N/A	320058.5988
	Standard 6	Sn (189.925 nm)	10.0000	N/A	25639.7628
	Standard 6	Sr (216.596 nm)	5.0000	N/A	93020.9003
	Standard 6	Ti (336.122 nm)	5.0000	N/A	750306.1288
	Standard 6	Tl (190.794 nm)	2.0000	N/A	1793.8452
	Standard 6	V (292.401 nm)	5.0000	N/A	181255.0628
	Standard 6	Y (360.074 nm)	0.94	0.65	615922.26
	Standard 6	Y_R (360.074 nm)	0.94	0.65	615985.27
	Standard 6	Zn (213.857 nm)	2.0000	N/A	119557.3966
9/6/2024 15:24:22	Initial Calibration Verification	Ag (328.068 nm)	0.5141	1.87	30400.0623
	Initial Calibration Verification	Al (237.312 nm)	9.9629	1.93	25811.7990
	Initial Calibration Verification	As (188.980 nm)	1.0029	2.16	1633.7714
	Initial Calibration Verification	B (249.772 nm)	2.3079 Q	1.87	97452.3882 Q
	Initial Calibration Verification	Ba (230.424 nm)	9.8727	1.51	608704.1417
	Initial Calibration Verification	Be (313.107 nm)	0.2526	1.75	295795.2420
	Initial Calibration Verification	Ca (317.933 nm)	25.7974	1.72	961709.5618
	Initial Calibration Verification	Cd (214.439 nm)	0.5089	1.79	30506.8278
	Initial Calibration Verification	Co (230.786 nm)	2.5331	1.73	51146.0302
	Initial Calibration Verification	Cr (267.716 nm)	0.5184	1.74	29659.8752
	Initial Calibration Verification	Cu (327.395 nm)	1.2572	2.05	56696.9495
	Initial Calibration Verification	Fe (234.350 nm)	5.0445	1.71	113007.1169
	Initial Calibration Verification	K (766.491 nm)	25.5137	2.14	31450.9778

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Initial Calibration Verification	Mg (279.078 nm)	25.9432	1.72	103341.2014
	Initial Calibration Verification	Mn (257.610 nm)	0.7466	1.74	255282.1751
	Initial Calibration Verification	Mo (202.032 nm)	2.5914	1.43	27594.7991
	Initial Calibration Verification	Na (588.995 nm)	25.6292	2.15	351438.4012
	Initial Calibration Verification	Ni (230.299 nm)	2.0362	1.75	26140.4892
	Initial Calibration Verification	Pb (220.353 nm)	0.5113	1.68	2544.0476
	Initial Calibration Verification	Sb (217.582 nm)	4.9286	1.97	11384.9691
	Initial Calibration Verification	Se (196.026 nm)	0.4922	2.46	365.3013
	Initial Calibration Verification	Si (252.851 nm)	10.0968	1.08	63788.7821
	Initial Calibration Verification	Sn (189.925 nm)	5.1442	1.78	13262.2866
	Initial Calibration Verification	Sr (216.596 nm)	2.5530	1.47	47945.7443
	Initial Calibration Verification	Ti (336.122 nm)	2.6391 Q	1.69	392366.1848 Q
	Initial Calibration Verification	Tl (190.794 nm)	1.0250	1.45	923.7805
	Initial Calibration Verification	V (292.401 nm)	2.5716	1.79	92880.0398
	Initial Calibration Verification	Y (360.074 nm)	0.95	2.26	621720.32
	Initial Calibration Verification	Y_R (360.074 nm)	0.95	2.26	621791.44
	Initial Calibration Verification	Zn (213.857 nm)	1.0126	1.71	59849.6137
9/6/2024 15:27:26	Initial Calibration Blank	Ag (328.068 nm)	0.0000 u	> 100.00	18.7044
	Initial Calibration Blank	Al (237.312 nm)	0.0003	55.45	-10.0975
	Initial Calibration Blank	As (188.980 nm)	0.0033	55.26	1.4356
	Initial Calibration Blank	B (249.772 nm)	0.0040	11.70	281.2263
	Initial Calibration Blank	Ba (230.424 nm)	0.0003	19.20	24.5013
	Initial Calibration Blank	Be (313.107 nm)	0.0000	34.74	-12.6121
	Initial Calibration Blank	Ca (317.933 nm)	0.0031	4.74	3625.8631
	Initial Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	7.9284
	Initial Calibration Blank	Co (230.786 nm)	0.0002 u	> 100.00	4.6679
	Initial Calibration Blank	Cr (267.716 nm)	0.0000 u	> 100.00	4.8683
	Initial Calibration Blank	Cu (327.395 nm)	0.0001	61.99	3.8892
	Initial Calibration Blank	Fe (234.350 nm)	0.0043	27.40	167.1252
	Initial Calibration Blank	K (766.491 nm)	0.0894	14.90	876.8999
	Initial Calibration Blank	Mg (279.078 nm)	0.0005	94.38	2.3678
	Initial Calibration Blank	Mn (257.610 nm)	0.0000	97.73	13.3013
	Initial Calibration Blank	Mo (202.032 nm)	0.0076	16.12	86.9769
	Initial Calibration Blank	Na (588.995 nm)	0.0085	20.44	-12806.1308
	Initial Calibration Blank	Ni (230.299 nm)	0.0001 u	> 100.00	4.2059
	Initial Calibration Blank	Pb (220.353 nm)	-0.0003 u	> 100.00	-1.8244
	Initial Calibration Blank	Sb (217.582 nm)	0.0095	17.66	26.1548
	Initial Calibration Blank	Se (196.026 nm)	-0.0012 u	> 100.00	1.6245
	Initial Calibration Blank	Si (252.851 nm)	0.0097	49.86	132.1989
	Initial Calibration Blank	Sn (189.925 nm)	0.0018	20.57	8.8905
	Initial Calibration Blank	Sr (216.596 nm)	0.0000 u	> 100.00	6.0550
	Initial Calibration Blank	Ti (336.122 nm)	0.0071	29.03	1133.9202
	Initial Calibration Blank	Tl (190.794 nm)	-0.0005 u	> 100.00	-1.4045
	Initial Calibration Blank	V (292.401 nm)	0.0000 u	99.02	8.0130
	Initial Calibration Blank	Y (360.074 nm)	1.00	0.56	656398.68
	Initial Calibration Blank	Y_R (360.074 nm)	1.00	0.55	656365.26
	Initial Calibration Blank	Zn (213.857 nm)	0.0001	66.98	16.6644
9/6/2024 15:30:30	Mixed SIC/ICS	Ag (328.068 nm)	0.0000 u	> 100.00	16.8612
	Mixed SIC/ICS	Al (237.312 nm)	502.5269 o	0.14	1302486.2604
	Mixed SIC/ICS	As (188.980 nm)	0.0041	43.87	2.7901
	Mixed SIC/ICS	B (249.772 nm)	0.1276	0.31	5496.6537
	Mixed SIC/ICS	Ba (230.424 nm)	0.0027	3.41	172.1674
	Mixed SIC/ICS	Be (313.107 nm)	0.0006	0.93	695.5654
	Mixed SIC/ICS	Ca (317.933 nm)	436.3031 o	0.28	16209203.5179
	Mixed SIC/ICS	Cd (214.439 nm)	0.0031	1.07	196.4069
	Mixed SIC/ICS	Co (230.786 nm)	0.0010	10.53	21.1060
	Mixed SIC/ICS	Cr (267.716 nm)	0.0013	5.85	79.3451

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Mixed SIC/ICS	Cu (327.395 nm)	0.0005	28.96	22.8123
	Mixed SIC/ICS	Fe (234.350 nm)	177.7678 o	0.20	3979951.9246
	Mixed SIC/ICS	K (766.491 nm)	0.2494	11.97	1069.3627
	Mixed SIC/ICS	Mg (279.078 nm)	522.4310 o	0.27	2081027.7414
	Mixed SIC/ICS	Mn (257.610 nm)	0.0019	1.28	662.0996
	Mixed SIC/ICS	Mo (202.032 nm)	0.0015	26.66	22.1926
	Mixed SIC/ICS	Na (588.995 nm)	-0.0077 u	40.89	-13035.5606
	Mixed SIC/ICS	Ni (230.299 nm)	0.0017	11.18	24.9958
	Mixed SIC/ICS	Pb (220.353 nm)	0.0000 u	> 100.00	-0.6695
	Mixed SIC/ICS	Sb (217.582 nm)	-0.0007 u	> 100.00	2.7115
	Mixed SIC/ICS	Se (196.026 nm)	-0.0008 u	> 100.00	1.9217
	Mixed SIC/ICS	Si (252.851 nm)	0.0210	28.10	203.5437
	Mixed SIC/ICS	Sn (189.925 nm)	0.0024	18.23	10.3842
	Mixed SIC/ICS	Sr (216.596 nm)	0.0196	0.55	374.2238
	Mixed SIC/ICS	Ti (336.122 nm)	0.0021	49.21	382.1348
	Mixed SIC/ICS	Tl (190.794 nm)	0.0011 u	> 100.00	0.0294
	Mixed SIC/ICS	V (292.401 nm)	-0.0010 u	11.39	-24.8084
	Mixed SIC/ICS	Y (360.074 nm)	0.84	0.72	553598.04
	Mixed SIC/ICS	Y_R (360.074 nm)	0.84	0.72	553510.87
	Mixed SIC/ICS	Zn (213.857 nm)	0.0286 K	0.28	1700.6437 K
9/6/2024 15:33:35	HLCCVA	Ag (328.068 nm)	2.1729 o	0.90	128441.9094
	HLCCVA	Al (237.312 nm)	505.2230 o	0.96	1309474.1732
	HLCCVA	As (188.980 nm)	4.1971 o	1.01	6849.8213
	HLCCVA	B (249.772 nm)	47.6609 o	0.92	2010263.0872
	HLCCVA	Ba (230.424 nm)	36.8936 o	0.73	2274671.7820
	HLCCVA	Be (313.107 nm)	1.0016 o	0.80	1172807.4487
	HLCCVA	Ca (317.933 nm)	232.3776 o	0.61	8634760.3646
	HLCCVA	Cd (214.439 nm)	1.9148 o	0.63	114765.7432
	HLCCVA	Co (230.786 nm)	9.4205 o	0.75	190207.7919
	HLCCVA	Cr (267.716 nm)	9.8371 o	0.69	562736.9423
	HLCCVA	Cu (327.395 nm)	21.9525 o	1.24	989974.4401
	HLCCVA	Fe (234.350 nm)	92.7347 o	0.65	2076223.6954
	HLCCVA	K (766.491 nm)	122.7152 Qo	1.24	148341.1456 Q
	HLCCVA	Mg (279.078 nm)	518.2964 o	0.60	2064558.0792
	HLCCVA	Mn (257.610 nm)	9.4427 o	0.76	3228805.3181
	HLCCVA	Mo (202.032 nm)	10.0159 o	0.57	106638.6608
	HLCCVA	Na (588.995 nm)	261.5411 o	1.45	3705353.4232
	HLCCVA	Ni (230.299 nm)	7.2739 o	0.78	93372.2910
	HLCCVA	Pb (220.353 nm)	9.4378 o	0.75	46967.2909
	HLCCVA	Sb (217.582 nm)	0.0198	11.91	50.0640
	HLCCVA	Se (196.026 nm)	10.1574 o	1.30	7489.8709
	HLCCVA	Si (252.851 nm)	60.8203 Qo	0.93	383887.8332 Q
	HLCCVA	Sn (189.925 nm)	0.0027	30.95	11.3708
	HLCCVA	Sr (216.596 nm)	9.7768 o	0.53	183593.7804
	HLCCVA	Ti (336.122 nm)	10.1835 o	0.73	1513840.6635
	HLCCVA	Tl (190.794 nm)	3.7108 o	0.70	3346.8260
	HLCCVA	V (292.401 nm)	10.0626 o	0.75	363401.5554
	HLCCVA	Y (360.074 nm)	0.84	1.34	547402.95
	HLCCVA	Y_R (360.074 nm)	0.83	1.34	547315.36
	HLCCVA	Zn (213.857 nm)	10.3368 o	0.71	610837.5384
9/6/2024 15:36:39	HLCCVB	Ag (328.068 nm)	0.0000 u	> 100.00	16.5010
	HLCCVB	Al (237.312 nm)	0.0218	15.95	45.4698
	HLCCVB	As (188.980 nm)	0.0056	28.39	5.2563
	HLCCVB	B (249.772 nm)	0.0558	8.29	2469.1285
	HLCCVB	Ba (230.424 nm)	0.0009	13.52	62.4598
	HLCCVB	Be (313.107 nm)	0.0000 u	> 100.00	-9.2448
	HLCCVB	Ca (317.933 nm)	187.6432 o	0.10	6973181.0400

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	HLCCVB	Cd (214.439 nm)	0.0007	2.40	51.3520
	HLCCVB	Co (230.786 nm)	0.0001 u	> 100.00	2.6054
	HLCCVB	Cr (267.716 nm)	0.0014	8.50	85.5583
	HLCCVB	Cu (327.395 nm)	4.2699 o	0.37	192554.3288
	HLCCVB	Fe (234.350 nm)	38.2009 o	0.08	855314.9850
	HLCCVB	K (766.491 nm)	115.8550 Qo	0.31	140091.3301 Q
	HLCCVB	Mg (279.078 nm)	416.0214 o	0.10	1657160.3742
	HLCCVB	Mn (257.610 nm)	0.0113	0.21	3858.2844
	HLCCVB	Mo (202.032 nm)	0.0130	16.97	144.9150
	HLCCVB	Na (588.995 nm)	157.5421 o	0.53	2226818.8221
	HLCCVB	Ni (230.299 nm)	0.0016	10.70	23.6732
	HLCCVB	Pb (220.353 nm)	0.0014	31.40	6.5229
	HLCCVB	Sb (217.582 nm)	-0.0013 u	69.00	1.4208
	HLCCVB	Se (196.026 nm)	0.0042	50.79	5.5934
	HLCCVB	Si (252.851 nm)	0.0504	35.68	388.8251
	HLCCVB	Sn (189.925 nm)	0.0004 u	> 100.00	5.4448
	HLCCVB	Sr (216.596 nm)	0.0071	1.39	139.9313
	HLCCVB	Ti (336.122 nm)	0.0272	14.83	4114.7121
	HLCCVB	Tl (190.794 nm)	2.8508 o	0.29	2570.9197
	HLCCVB	V (292.401 nm)	0.0005	40.79	27.9115
	HLCCVB	Y (360.074 nm)	0.87	0.67	571958.03
	HLCCVB	Y_R (360.074 nm)	0.87	0.67	571890.14
	HLCCVB	Zn (213.857 nm)	0.0092	0.66	552.6120
9/6/2024 15:39:43	Continuing Calibration Verification	Ag (328.068 nm)	0.5097	0.13	30142.8045
	Continuing Calibration Verification	Al (237.312 nm)	9.9456	0.22	25767.0623
	Continuing Calibration Verification	As (188.980 nm)	0.9968	0.35	1623.9087
	Continuing Calibration Verification	B (249.772 nm)	2.3038	0.07	97277.4044
	Continuing Calibration Verification	Ba (230.424 nm)	9.7181	0.42	599175.8849
	Continuing Calibration Verification	Be (313.107 nm)	0.2506	0.07	293454.0893
	Continuing Calibration Verification	Ca (317.933 nm)	25.5873	0.13	953904.9920
	Continuing Calibration Verification	Cd (214.439 nm)	0.5042	0.14	30223.2822
	Continuing Calibration Verification	Co (230.786 nm)	2.5129	0.48	50737.9342
	Continuing Calibration Verification	Cr (267.716 nm)	0.5133	0.14	29368.9424
	Continuing Calibration Verification	Cu (327.395 nm)	1.2545	0.34	56571.0637
	Continuing Calibration Verification	Fe (234.350 nm)	5.0280	0.15	112638.0626
	Continuing Calibration Verification	K (766.491 nm)	25.6283	0.42	31588.8152
	Continuing Calibration Verification	Mg (279.078 nm)	25.7191	0.14	102448.5474
	Continuing Calibration Verification	Mn (257.610 nm)	0.7416	0.10	253595.8824
	Continuing Calibration Verification	Mo (202.032 nm)	2.5699	0.59	27366.0027
	Continuing Calibration Verification	Na (588.995 nm)	25.5347	0.40	350095.3206
	Continuing Calibration Verification	Ni (230.299 nm)	2.0106	0.09	25812.1927
	Continuing Calibration Verification	Pb (220.353 nm)	0.5056	0.10	2515.8563
	Continuing Calibration Verification	Sb (217.582 nm)	4.9155	0.10	11354.6928
	Continuing Calibration Verification	Se (196.026 nm)	0.4860	1.05	360.7538
	Continuing Calibration Verification	Si (252.851 nm)	10.1314	1.49	64006.8668
	Continuing Calibration Verification	Sn (189.925 nm)	5.1070	0.17	13166.4542
	Continuing Calibration Verification	Sr (216.596 nm)	2.5327	0.40	47564.6180
	Continuing Calibration Verification	Ti (336.122 nm)	2.6105	0.18	388116.1790
	Continuing Calibration Verification	Tl (190.794 nm)	1.0134	0.35	913.3483
	Continuing Calibration Verification	V (292.401 nm)	2.5515	0.05	92152.2338
	Continuing Calibration Verification	Y (360.074 nm)	0.95	0.77	625836.68
	Continuing Calibration Verification	Y_R (360.074 nm)	0.95	0.77	625796.46
	Continuing Calibration Verification	Zn (213.857 nm)	1.0034	0.13	59305.6875
9/6/2024 15:42:47	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u	37.66	15.0408
	Continuing Calibration Blank	Al (237.312 nm)	0.0003	81.86	-10.1908
	Continuing Calibration Blank	As (188.980 nm)	0.0043	15.88	3.1093
	Continuing Calibration Blank	B (249.772 nm)	0.0086	9.73	476.2914

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Ba (230.424 nm)	0.0003	18.64	26.8544
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	29.04	-10.3126
	Continuing Calibration Blank	Ca (317.933 nm)	0.0032	1.03	3631.1880
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	9.0004
	Continuing Calibration Blank	Co (230.786 nm)	0.0001 u	> 100.00	3.0843
	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u	> 100.00	6.4986
	Continuing Calibration Blank	Cu (327.395 nm)	0.0001 u	> 100.00	2.8288
	Continuing Calibration Blank	Fe (234.350 nm)	0.0047	19.95	175.4775
	Continuing Calibration Blank	K (766.491 nm)	0.1853	25.91	992.2369
	Continuing Calibration Blank	Mg (279.078 nm)	-0.0004 u	> 100.00	-1.2503
	Continuing Calibration Blank	Mn (257.610 nm)	0.0001	15.34	35.0488
	Continuing Calibration Blank	Mo (202.032 nm)	0.0072	9.13	82.7718
	Continuing Calibration Blank	Na (588.995 nm)	0.0510	19.34	-12200.9000
	Continuing Calibration Blank	Ni (230.299 nm)	0.0002 u	> 100.00	5.8737
	Continuing Calibration Blank	Pb (220.353 nm)	0.0001 u	> 100.00	0.1590
	Continuing Calibration Blank	Sb (217.582 nm)	0.0105	9.77	28.5221
	Continuing Calibration Blank	Se (196.026 nm)	0.0013	79.59	3.4512
	Continuing Calibration Blank	Si (252.851 nm)	0.0105	35.19	137.3069
	Continuing Calibration Blank	Sn (189.925 nm)	0.0013	8.30	7.6590
	Continuing Calibration Blank	Sr (216.596 nm)	0.0000 u	> 100.00	6.1958
	Continuing Calibration Blank	Ti (336.122 nm)	0.0067	29.74	1061.9201
	Continuing Calibration Blank	Tl (190.794 nm)	0.0009 u	> 100.00	-0.1321
	Continuing Calibration Blank	V (292.401 nm)	-0.0001 u	16.09	4.7675
	Continuing Calibration Blank	Y (360.074 nm)	0.99	2.16	646887.23
	Continuing Calibration Blank	Y_R (360.074 nm)	0.99	2.16	646880.98
	Continuing Calibration Blank	Zn (213.857 nm)	0.0002	14.26	21.8876
9/6/2024 15:45:51	PBS-444261	Ag (328.068 nm)	0.0000 u	> 100.00	17.6475
	PBS-444261	Al (237.312 nm)	0.0014 u	> 100.00	-7.2870
	PBS-444261	As (188.980 nm)	0.0029	41.97	0.9292
	PBS-444261	B (249.772 nm)	0.0086	3.79	478.4240
	PBS-444261	Ba (230.424 nm)	0.0002	22.04	18.0407
	PBS-444261	Be (313.107 nm)	0.0000 u	> 100.00	-13.7825
	PBS-444261	Ca (317.933 nm)	0.0162	1.85	4112.8244
	PBS-444261	Cd (214.439 nm)	0.0001	56.18	14.2370
	PBS-444261	Co (230.786 nm)	0.0003	43.14	7.7916
	PBS-444261	Cr (267.716 nm)	0.0009	7.28	54.4103
	PBS-444261	Cu (327.395 nm)	0.0001 u	98.13	4.3609
	PBS-444261	Fe (234.350 nm)	0.0165	9.76	441.0883
	PBS-444261	K (766.491 nm)	0.1118	17.20	903.8903
	PBS-444261	Mg (279.078 nm)	0.0021	78.17	8.7038
	PBS-444261	Mn (257.610 nm)	0.0002	5.42	85.7952
	PBS-444261	Mo (202.032 nm)	0.0034	22.45	42.2943
	PBS-444261	Na (588.995 nm)	0.0641	7.52	-12015.4283
	PBS-444261	Ni (230.299 nm)	0.0001 u	> 100.00	4.6688
	PBS-444261	Pb (220.353 nm)	0.0006	20.52	2.5238
	PBS-444261	Sb (217.582 nm)	0.0053	32.32	16.5635
	PBS-444261	Se (196.026 nm)	0.0018	78.35	3.8526
	PBS-444261	Si (252.851 nm)	0.0252	28.88	230.1295
	PBS-444261	Sn (189.925 nm)	0.0130	5.39	37.6970
	PBS-444261	Sr (216.596 nm)	-0.0001 u	85.94	3.9047
	PBS-444261	Ti (336.122 nm)	0.0042	36.33	691.0609
	PBS-444261	Tl (190.794 nm)	-0.0011 u	> 100.00	-1.9373
	PBS-444261	V (292.401 nm)	0.0001	69.00	11.8915
	PBS-444261	Y (360.074 nm)	1.00	0.77	654690.61
	PBS-444261	Y_R (360.074 nm)	1.00	0.77	654701.33
	PBS-444261	Zn (213.857 nm)	0.0005	20.02	42.7284
9/6/2024 15:48:55	LCSS-444261	Ag (328.068 nm)	0.0485	0.13	2885.1760

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	LCSS-444261	Al (237.312 nm)	1.9337	0.22	5000.8971
	LCSS-444261	As (188.980 nm)	0.0382	4.86	58.5627
	LCSS-444261	B (249.772 nm)	0.8851	0.30	37442.4401
	LCSS-444261	Ba (230.424 nm)	1.9506	0.51	120269.2700
	LCSS-444261	Be (313.107 nm)	0.0488	0.22	57107.9957
	LCSS-444261	Ca (317.933 nm)	2.0103	0.29	78182.6561
	LCSS-444261	Cd (214.439 nm)	0.0505	0.42	3034.6629
	LCSS-444261	Co (230.786 nm)	0.5032	0.37	10161.9854
	LCSS-444261	Cr (267.716 nm)	0.2033	0.34	11633.2842
	LCSS-444261	Cu (327.395 nm)	0.2554	0.09	11518.3382
	LCSS-444261	Fe (234.350 nm)	1.0179	0.32	22859.7025
	LCSS-444261	K (766.491 nm)	19.4112	0.26	24112.4129
	LCSS-444261	Mg (279.078 nm)	1.9320	0.16	7696.3705
	LCSS-444261	Mn (257.610 nm)	0.4887	0.18	167107.2527
	LCSS-444261	Mo (202.032 nm)	0.4891	1.51	5213.3482
	LCSS-444261	Na (588.995 nm)	19.5516	0.44	265035.3129
	LCSS-444261	Ni (230.299 nm)	0.4938	0.43	6341.2373
	LCSS-444261	Pb (220.353 nm)	0.5127	0.24	2551.0107
	LCSS-444261	Sb (217.582 nm)	0.4810	1.22	1114.9282
	LCSS-444261	Se (196.026 nm)	0.9115	0.72	674.4073
	LCSS-444261	Si (252.851 nm)	0.3289	2.18	2146.3449
	LCSS-444261	Sn (189.925 nm)	4.9532	0.27	12770.0042
	LCSS-444261	Sr (216.596 nm)	2.0318	0.29	38159.1101
	LCSS-444261	Ti (336.122 nm)	0.5094	0.15	75796.5677
	LCSS-444261	Tl (190.794 nm)	1.9680	0.66	1774.4876
	LCSS-444261	V (292.401 nm)	0.5008	0.12	18095.0966
	LCSS-444261	Y (360.074 nm)	0.98	0.72	642897.10
	LCSS-444261	Y_R (360.074 nm)	0.98	0.72	642895.89
	LCSS-444261	Zn (213.857 nm)	0.4911	0.08	29031.2343
9/6/2024 15:51:59	R2408392-001	Ag (328.068 nm)	0.0102	1.13	621.1121
	R2408392-001	Al (237.312 nm)	266.2789 o	0.17	690156.1255
	R2408392-001	As (188.980 nm)	0.0524	6.10	81.6003
	R2408392-001	B (249.772 nm)	0.5713	0.16	24207.0337
	R2408392-001	Ba (230.424 nm)	1.5735	0.42	97023.5694
	R2408392-001	Be (313.107 nm)	0.0025	0.12	2870.2866
	R2408392-001	Ca (317.933 nm)	335.9319 o	0.29	12481096.9716
	R2408392-001	Cd (214.439 nm)	0.0370	0.47	2224.8532
	R2408392-001	Co (230.786 nm)	0.1050	0.49	2121.5414
	R2408392-001	Cr (267.716 nm)	0.3962	0.13	22669.4743
	R2408392-001	Cu (327.395 nm)	3.4855 o	0.25	157184.6361
	R2408392-001	Fe (234.350 nm)	98.9617 o	0.21	2215633.8347
	R2408392-001	K (766.491 nm)	57.4584 o	0.09	69866.2304
	R2408392-001	Mg (279.078 nm)	34.4597	0.25	137265.3350
	R2408392-001	Mn (257.610 nm)	4.2299 o	0.13	1446344.8415
	R2408392-001	Mo (202.032 nm)	0.0494	2.02	531.9703
	R2408392-001	Na (588.995 nm)	92.9029 o	0.27	1307856.0133
	R2408392-001	Ni (230.299 nm)	0.4548	0.24	5841.5300
	R2408392-001	Pb (220.353 nm)	0.7631	0.26	3796.9824
	R2408392-001	Sb (217.582 nm)	0.0394	7.08	95.1985
	R2408392-001	Se (196.026 nm)	0.0150	8.70	13.5605
	R2408392-001	Si (252.851 nm)	4.9275	0.17	31166.9507
	R2408392-001	Sn (189.925 nm)	0.4754	0.35	1229.4479
	R2408392-001	Sr (216.596 nm)	0.8242	0.16	15482.5522
	R2408392-001	Ti (336.122 nm)	0.4138	0.36	61585.3307
	R2408392-001	Tl (190.794 nm)	0.0007 u	> 100.00	-0.2898
	R2408392-001	V (292.401 nm)	0.0669	0.12	2425.7898
	R2408392-001	Y (360.074 nm)	0.91	0.81	596617.89

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408392-001	Y_R (360.074 nm)	0.91	0.81	596588.37
	R2408392-001	Zn (213.857 nm)	6.9472 o	0.20	410533.3178
9/6/2024 15:55:02	R2408411-004	Ag (328.068 nm)	0.0000	82.51	19.7474
	R2408411-004	Al (237.312 nm)	0.0118	3.98	19.5267
	R2408411-004	As (188.980 nm)	0.0035	22.58	1.9051
	R2408411-004	B (249.772 nm)	0.0037	1.95	271.2714
	R2408411-004	Ba (230.424 nm)	0.0003	15.54	28.8710
	R2408411-004	Be (313.107 nm)	0.0000	41.55	-8.1313
	R2408411-004	Ca (317.933 nm)	0.1132	0.37	7718.9754
	R2408411-004	Cd (214.439 nm)	0.0001	69.70	12.5988
	R2408411-004	Co (230.786 nm)	0.0000 u	> 100.00	2.1886
	R2408411-004	Cr (267.716 nm)	0.0015	15.12	91.5804
	R2408411-004	Cu (327.395 nm)	0.0023	24.20	103.4852
	R2408411-004	Fe (234.350 nm)	0.0606	8.04	1428.2972
	R2408411-004	K (766.491 nm)	5.4953	0.75	7377.7724
	R2408411-004	Mg (279.078 nm)	0.0225	1.36	89.8643
	R2408411-004	Mn (257.610 nm)	0.0003	3.77	113.6005
	R2408411-004	Mo (202.032 nm)	0.0020	25.51	27.0486
	R2408411-004	Na (588.995 nm)	0.1549	4.16	-10723.7738
	R2408411-004	Ni (230.299 nm)	0.0040	> 100.00	54.0687
	R2408411-004	Pb (220.353 nm)	0.0009	37.92	4.1372
	R2408411-004	Sb (217.582 nm)	0.0323	13.75	78.9782
	R2408411-004	Se (196.026 nm)	0.0026	84.73	4.4421
	R2408411-004	Si (252.851 nm)	0.0409	9.84	329.0589
	R2408411-004	Sn (189.925 nm)	0.0152	4.60	43.5829
	R2408411-004	Sr (216.596 nm)	0.0004	5.70	13.5147
	R2408411-004	Ti (336.122 nm)	0.0056	26.84	908.4466
	R2408411-004	Tl (190.794 nm)	-0.0035 u	17.02	-4.1193
	R2408411-004	V (292.401 nm)	0.0001	53.68	12.4323
	R2408411-004	Y (360.074 nm)	0.99	0.74	649334.50
	R2408411-004	Y_R (360.074 nm)	0.99	0.74	649341.30
	R2408411-004	Zn (213.857 nm)	0.0019	1.12	121.3774
9/6/2024 15:58:06	R2408442-001	Ag (328.068 nm)	0.0018	8.99	123.8643
	R2408442-001	Al (237.312 nm)	56.5475 o	0.37	146554.1904
	R2408442-001	As (188.980 nm)	0.0478	1.53	74.2473
	R2408442-001	B (249.772 nm)	0.1385	0.38	5955.3328
	R2408442-001	Ba (230.424 nm)	0.3694	0.22	22785.9796
	R2408442-001	Be (313.107 nm)	0.0028	0.14	3297.3927
	R2408442-001	Ca (317.933 nm)	350.9708 o	0.22	13039688.3622
	R2408442-001	Cd (214.439 nm)	0.0045	1.40	280.2517
	R2408442-001	Co (230.786 nm)	0.0387	0.97	783.3103
	R2408442-001	Cr (267.716 nm)	0.0834	0.02	4776.6539
	R2408442-001	Cu (327.395 nm)	0.1658	0.40	7477.0809
	R2408442-001	Fe (234.350 nm)	110.8051 o	0.25	2480785.2277
	R2408442-001	K (766.491 nm)	8.4195	0.75	10894.3766
	R2408442-001	Mg (279.078 nm)	176.6647 o	0.27	703718.3285
	R2408442-001	Mn (257.610 nm)	2.7096 o	0.22	926515.1732
	R2408442-001	Mo (202.032 nm)	0.0039	16.26	48.2237
	R2408442-001	Na (588.995 nm)	2.7928	0.73	26778.7706
	R2408442-001	Ni (230.299 nm)	0.0964	0.56	1240.8129
	R2408442-001	Pb (220.353 nm)	0.6244	0.26	3106.6828
	R2408442-001	Sb (217.582 nm)	0.0049	48.36	15.7285
	R2408442-001	Se (196.026 nm)	0.0052 u	> 100.00	6.3187
	R2408442-001	Si (252.851 nm)	3.6998	0.39	23419.1743
	R2408442-001	Sn (189.925 nm)	0.0215	5.62	59.8423
	R2408442-001	Sr (216.596 nm)	0.3476	0.26	6533.3247
	R2408442-001	Ti (336.122 nm)	0.7985	0.36	118772.3575

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408442-001	Tl (190.794 nm)	0.0019	33.90	0.8301
	R2408442-001	V (292.401 nm)	0.1292	0.27	4674.9118
	R2408442-001	Y (360.074 nm)	0.93	0.79	609518.53
	R2408442-001	Y_R (360.074 nm)	0.93	0.79	609502.90
	R2408442-001	Zn (213.857 nm)	0.6567	0.07	38815.7514
9/6/2024 16:01:10	R2408442-001S	Ag (328.068 nm)	0.0493	0.11	2929.7679
	R2408442-001S	Al (237.312 nm)	66.5248 o	0.33	172414.3922
	R2408442-001S	As (188.980 nm)	0.0863	1.02	137.0412
	R2408442-001S	B (249.772 nm)	0.9435	0.18	39908.6183
	R2408442-001S	Ba (230.424 nm)	2.2389	0.19	138046.0346
	R2408442-001S	Be (313.107 nm)	0.0507	0.13	59404.1475
	R2408442-001S	Ca (317.933 nm)	323.9243 o	0.10	12035097.3052
	R2408442-001S	Cd (214.439 nm)	0.0505	0.23	3033.1216
	R2408442-001S	Co (230.786 nm)	0.4950	0.18	9996.4975
	R2408442-001S	Cr (267.716 nm)	0.2828	0.03	16182.7730
	R2408442-001S	Cu (327.395 nm)	0.4115	0.39	18556.9200
	R2408442-001S	Fe (234.350 nm)	115.6358 o	0.11	2588934.7127
	R2408442-001S	K (766.491 nm)	27.5867	0.52	33943.8941
	R2408442-001S	Mg (279.078 nm)	133.4278 o	0.07	531490.2979
	R2408442-001S	Mn (257.610 nm)	3.3042 o	0.09	1129836.1943
	R2408442-001S	Mo (202.032 nm)	0.4719	0.86	5029.8982
	R2408442-001S	Na (588.995 nm)	24.3607	0.77	333404.7432
	R2408442-001S	Ni (230.299 nm)	0.5423	0.26	6964.3277
	R2408442-001S	Pb (220.353 nm)	1.0450	0.06	5200.2497
	R2408442-001S	Sb (217.582 nm)	0.3495	0.81	811.4098
	R2408442-001S	Se (196.026 nm)	0.9266	1.34	685.5467
	R2408442-001S	Si (252.851 nm)	5.3217	0.57	33654.6658
	R2408442-001S	Sn (189.925 nm)	4.6946	0.15	12103.5820
	R2408442-001S	Sr (216.596 nm)	2.2577	0.16	42400.4441
	R2408442-001S	Ti (336.122 nm)	1.3091	0.34	194673.4710
	R2408442-001S	Tl (190.794 nm)	1.7939	0.10	1617.4951
	R2408442-001S	V (292.401 nm)	0.6236	0.15	22529.6925
	R2408442-001S	Y (360.074 nm)	0.94	1.12	613815.94
	R2408442-001S	Y_R (360.074 nm)	0.94	1.11	613799.41
	R2408442-001S	Zn (213.857 nm)	1.1086	0.31	65519.9162
9/6/2024 16:04:14	R2408442-001SD	Ag (328.068 nm)	0.0514	2.55	3057.8319
	R2408442-001SD	Al (237.312 nm)	56.8574 o	2.63	147357.4976
	R2408442-001SD	As (188.980 nm)	0.0877	3.41	139.3058
	R2408442-001SD	B (249.772 nm)	0.9735	2.41	41172.9692
	R2408442-001SD	Ba (230.424 nm)	2.2430	2.14	138298.8426
	R2408442-001SD	Be (313.107 nm)	0.0514	2.30	60156.0473
	R2408442-001SD	Ca (317.933 nm)	452.9360 o	2.20	16827003.4623
	R2408442-001SD	Cd (214.439 nm)	0.0517	2.41	3103.6730
	R2408442-001SD	Co (230.786 nm)	0.4948	2.20	9991.4143
	R2408442-001SD	Cr (267.716 nm)	0.2829	2.18	16189.9149
	R2408442-001SD	Cu (327.395 nm)	0.4289	2.59	19340.4701
	R2408442-001SD	Fe (234.350 nm)	103.7662 o	2.23	2323196.7017
	R2408442-001SD	K (766.491 nm)	29.8705	2.80	36690.2670
	R2408442-001SD	Mg (279.078 nm)	206.0604 o	2.20	820811.8353
	R2408442-001SD	Mn (257.610 nm)	3.3042 o	2.32	1129823.7256
	R2408442-001SD	Mo (202.032 nm)	0.4867	1.22	5188.0793
	R2408442-001SD	Na (588.995 nm)	25.3677	2.90	347720.8888
	R2408442-001SD	Ni (230.299 nm)	0.5382	2.15	6911.8071
	R2408442-001SD	Pb (220.353 nm)	1.1925 o	2.21	5934.1808
	R2408442-001SD	Sb (217.582 nm)	0.3836	3.16	890.0068
	R2408442-001SD	Se (196.026 nm)	0.9553	2.89	706.6935
	R2408442-001SD	Si (252.851 nm)	4.8281	2.64	30539.3771

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408442-001SD	Sn (189.925 nm)	4.7692	2.10	12295.7074
	R2408442-001SD	Sr (216.596 nm)	2.3493	1.98	44120.9241
	R2408442-001SD	Ti (336.122 nm)	1.2173	2.41	181021.0068
	R2408442-001SD	Tl (190.794 nm)	1.8171	2.45	1638.4353
	R2408442-001SD	V (292.401 nm)	0.6179	2.36	22322.6743
	R2408442-001SD	Y (360.074 nm)	0.90	2.80	592463.57
	R2408442-001SD	Y_R (360.074 nm)	0.90	2.80	592429.14
	R2408442-001SD	Zn (213.857 nm)	1.2892	2.20	76190.9483
9/6/2024 16:07:18	R2408442-001A	Ag (328.068 nm)	0.0494	0.48	2934.9718
	R2408442-001A	Al (237.312 nm)	57.0448 o	0.31	147843.0532
	R2408442-001A	As (188.980 nm)	0.0834	4.03	132.2633
	R2408442-001A	B (249.772 nm)	1.0060	0.12	42542.6264
	R2408442-001A	Ba (230.424 nm)	2.1660	0.22	133550.1221
	R2408442-001A	Be (313.107 nm)	0.0500	0.05	58551.9272
	R2408442-001A	Ca (317.933 nm)	342.7499 o	0.18	12734340.2855
	R2408442-001A	Cd (214.439 nm)	0.0499	0.21	2996.2458
	R2408442-001A	Co (230.786 nm)	0.4885	0.14	9865.2252
	R2408442-001A	Cr (267.716 nm)	0.2710	0.15	15505.6007
	R2408442-001A	Cu (327.395 nm)	0.4109	0.21	18529.4325
	R2408442-001A	Fe (234.350 nm)	108.6431 o	0.15	2432382.6645
	R2408442-001A	K (766.491 nm)	29.9596	0.50	36797.4291
	R2408442-001A	Mg (279.078 nm)	173.0218 o	0.18	689207.1342
	R2408442-001A	Mn (257.610 nm)	3.0819 o	0.04	1053807.3409
	R2408442-001A	Mo (202.032 nm)	0.4788	1.00	5103.3330
	R2408442-001A	Na (588.995 nm)	24.0688	0.65	329254.7795
	R2408442-001A	Ni (230.299 nm)	0.5328	0.16	6842.2776
	R2408442-001A	Pb (220.353 nm)	1.0629	0.28	5289.3143
	R2408442-001A	Sb (217.582 nm)	0.4786	0.76	1109.4133
	R2408442-001A	Se (196.026 nm)	0.9366	0.80	692.9130
	R2408442-001A	Si (252.851 nm)	4.2511	0.61	26897.9355
	R2408442-001A	Sn (189.925 nm)	4.6681	0.12	12035.2096
	R2408442-001A	Sr (216.596 nm)	2.1929	0.27	41183.5328
	R2408442-001A	Ti (336.122 nm)	1.2798	0.12	190317.9643
	R2408442-001A	Tl (190.794 nm)	1.7845	0.34	1609.0230
	R2408442-001A	V (292.401 nm)	0.6058	0.12	21888.0537
	R2408442-001A	Y (360.074 nm)	0.93	0.94	610172.05
	R2408442-001A	Y_R (360.074 nm)	0.93	0.94	610142.79
	R2408442-001A	Zn (213.857 nm)	1.1068	0.15	65411.9532
9/6/2024 16:10:22	R2408442-001L 5X	Ag (328.068 nm)	0.0003	62.23	32.6465
	R2408442-001L 5X	Al (237.312 nm)	11.7571	1.71	30462.1177
	R2408442-001L 5X	As (188.980 nm)	0.0104	15.32	13.0975
	R2408442-001L 5X	B (249.772 nm)	0.0289	2.05	1331.6686
	R2408442-001L 5X	Ba (230.424 nm)	0.0772	1.58	4769.2877
	R2408442-001L 5X	Be (313.107 nm)	0.0005	3.43	614.1961
	R2408442-001L 5X	Ca (317.933 nm)	80.5056 o	1.51	2993748.7132
	R2408442-001L 5X	Cd (214.439 nm)	0.0009	4.21	61.5919
	R2408442-001L 5X	Co (230.786 nm)	0.0082	2.52	165.9635
	R2408442-001L 5X	Cr (267.716 nm)	0.0176	1.34	1013.1657
	R2408442-001L 5X	Cu (327.395 nm)	0.0320	1.82	1443.9183
	R2408442-001L 5X	Fe (234.350 nm)	24.3241 o	1.33	544641.3066
	R2408442-001L 5X	K (766.491 nm)	1.5519	4.77	2635.6246
	R2408442-001L 5X	Mg (279.078 nm)	36.8820	1.52	146914.3334
	R2408442-001L 5X	Mn (257.610 nm)	0.5784	1.54	197774.5549
	R2408442-001L 5X	Mo (202.032 nm)	0.0042	7.65	50.4216
	R2408442-001L 5X	Na (588.995 nm)	0.5466	2.16	-5155.2069
	R2408442-001L 5X	Ni (230.299 nm)	0.0206	1.97	267.6876
	R2408442-001L 5X	Pb (220.353 nm)	0.1378	1.91	685.2542

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408442-001L 5X	Sb (217.582 nm)	0.0029	87.46	10.9929
	R2408442-001L 5X	Se (196.026 nm)	0.0002 u	> 100.00	2.6847
	R2408442-001L 5X	Si (252.851 nm)	0.7678	2.16	4916.4679
	R2408442-001L 5X	Sn (189.925 nm)	0.0064	13.61	20.8149
	R2408442-001L 5X	Sr (216.596 nm)	0.0739	1.37	1394.2832
	R2408442-001L 5X	Ti (336.122 nm)	0.1690	0.74	25194.7461
	R2408442-001L 5X	Tl (190.794 nm)	0.0013 u	> 100.00	0.2142
	R2408442-001L 5X	V (292.401 nm)	0.0267	1.85	973.3091
	R2408442-001L 5X	Y (360.074 nm)	0.98	0.50	643290.12
	R2408442-001L 5X	Y_R (360.074 nm)	0.98	0.50	643266.70
	R2408442-001L 5X	Zn (213.857 nm)	0.1378	1.52	8153.8303
9/6/2024 16:13:27	R2408481-003	Ag (328.068 nm)	0.0008	9.87	63.3046
	R2408481-003	Al (237.312 nm)	190.1305 o	0.31	492787.3148
	R2408481-003	As (188.980 nm)	0.0060	48.75	5.9410
	R2408481-003	B (249.772 nm)	0.0359	0.62	1626.4861
	R2408481-003	Ba (230.424 nm)	0.2408	0.13	14854.5083
	R2408481-003	Be (313.107 nm)	0.0000	3.96	36.4873
	R2408481-003	Ca (317.933 nm)	10.8961	0.23	408226.6580
	R2408481-003	Cd (214.439 nm)	0.0008	4.69	58.0708
	R2408481-003	Co (230.786 nm)	0.0016	2.90	33.4908
	R2408481-003	Cr (267.716 nm)	0.0164	0.75	945.7039
	R2408481-003	Cu (327.395 nm)	0.4008	0.08	18072.4446
	R2408481-003	Fe (234.350 nm)	6.2249	0.09	139435.7408
	R2408481-003	K (766.491 nm)	1.5000	3.03	2573.2171
	R2408481-003	Mg (279.078 nm)	1.2202	0.09	4860.6859
	R2408481-003	Mn (257.610 nm)	0.3637	0.02	124360.8841
	R2408481-003	Mo (202.032 nm)	0.0159	6.03	175.9944
	R2408481-003	Na (588.995 nm)	1.5755	0.79	9471.2663
	R2408481-003	Ni (230.299 nm)	0.0173	1.19	225.6060
	R2408481-003	Pb (220.353 nm)	0.0123	4.27	60.8607
	R2408481-003	Sb (217.582 nm)	0.0038	33.07	13.1567
	R2408481-003	Se (196.026 nm)	0.0076	44.90	8.1199
	R2408481-003	Si (252.851 nm)	2.0675	0.36	13118.4382
	R2408481-003	Sn (189.925 nm)	0.0419	2.07	112.2195
	R2408481-003	Sr (216.596 nm)	0.5550	0.28	10427.6690
	R2408481-003	Ti (336.122 nm)	0.1214	0.65	18121.5232
	R2408481-003	Tl (190.794 nm)	-0.0005 u	> 100.00	-1.3310
	R2408481-003	V (292.401 nm)	0.0050	1.54	191.8588
	R2408481-003	Y (360.074 nm)	0.97	0.89	637414.30
	R2408481-003	Y_R (360.074 nm)	0.97	0.89	637367.49
	R2408481-003	Zn (213.857 nm)	0.5652	0.01	33408.0771
9/6/2024 16:16:30	Continuing Calibration Verification	Ag (328.068 nm)	0.5108	1.98	30209.1492
	Continuing Calibration Verification	Al (237.312 nm)	9.9874	2.11	25875.2783
	Continuing Calibration Verification	As (188.980 nm)	0.9930	2.15	1617.7038
	Continuing Calibration Verification	B (249.772 nm)	2.2885	1.80	96634.1215
	Continuing Calibration Verification	Ba (230.424 nm)	9.7519	1.56	601259.7216
	Continuing Calibration Verification	Be (313.107 nm)	0.2509	1.50	293778.4010
	Continuing Calibration Verification	Ca (317.933 nm)	25.6694	1.73	956954.8307
	Continuing Calibration Verification	Cd (214.439 nm)	0.5057	1.66	30314.7695
	Continuing Calibration Verification	Co (230.786 nm)	2.5185	2.09	50852.0486
	Continuing Calibration Verification	Cr (267.716 nm)	0.5143	1.77	29424.8500
	Continuing Calibration Verification	Cu (327.395 nm)	1.2593	1.75	56789.5373
	Continuing Calibration Verification	Fe (234.350 nm)	5.0205	1.65	112471.4448
	Continuing Calibration Verification	K (766.491 nm)	25.4258	1.85	31345.3148
	Continuing Calibration Verification	Mg (279.078 nm)	25.7270	1.73	102480.1418
	Continuing Calibration Verification	Mn (257.610 nm)	0.7444	1.79	254547.4397
	Continuing Calibration Verification	Mo (202.032 nm)	2.5794	0.87	27467.5775

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	Na (588.995 nm)	25.5997	2.20	351019.5383
	Continuing Calibration Verification	Ni (230.299 nm)	2.0145	1.70	25861.4907
	Continuing Calibration Verification	Pb (220.353 nm)	0.5080	1.74	2527.6864
	Continuing Calibration Verification	Sb (217.582 nm)	5.0051	1.76	11561.7916
	Continuing Calibration Verification	Se (196.026 nm)	0.4897	2.11	363.4856
	Continuing Calibration Verification	Si (252.851 nm)	9.9144	0.97	62637.3136
	Continuing Calibration Verification	Sn (189.925 nm)	5.1035	1.82	13157.3369
	Continuing Calibration Verification	Sr (216.596 nm)	2.5399	1.51	47699.1704
	Continuing Calibration Verification	Ti (336.122 nm)	2.5914	1.63	385275.2423
	Continuing Calibration Verification	Tl (190.794 nm)	1.0099	1.96	910.1332
	Continuing Calibration Verification	V (292.401 nm)	2.5612	1.79	92503.3252
	Continuing Calibration Verification	Y (360.074 nm)	0.96	2.22	628169.92
	Continuing Calibration Verification	Y_R (360.074 nm)	0.96	2.22	628121.01
	Continuing Calibration Verification	Zn (213.857 nm)	1.0030	1.95	59281.3466
9/6/2024 16:19:34	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u	> 100.00	19.3032
	Continuing Calibration Blank	Al (237.312 nm)	0.0011 u	> 100.00	-8.2678
	Continuing Calibration Blank	As (188.980 nm)	0.0034	11.89	1.6837
	Continuing Calibration Blank	B (249.772 nm)	0.0013	22.83	167.4694
	Continuing Calibration Blank	Ba (230.424 nm)	0.0003	35.80	24.4827
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	62.86	-8.0215
	Continuing Calibration Blank	Ca (317.933 nm)	0.0028	4.03	3614.9755
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000	99.75	9.8448
	Continuing Calibration Blank	Co (230.786 nm)	0.0002	61.29	4.8010
	Continuing Calibration Blank	Cr (267.716 nm)	-0.0001 u	92.91	1.6410
	Continuing Calibration Blank	Cu (327.395 nm)	0.0000 u	> 100.00	0.7802
	Continuing Calibration Blank	Fe (234.350 nm)	0.0085	24.54	261.3588
	Continuing Calibration Blank	K (766.491 nm)	0.0852	29.60	871.8345
	Continuing Calibration Blank	Mg (279.078 nm)	0.0003 u	> 100.00	1.4660
	Continuing Calibration Blank	Mn (257.610 nm)	0.0001	23.42	35.9713
	Continuing Calibration Blank	Mo (202.032 nm)	0.0082	10.95	93.5929
	Continuing Calibration Blank	Na (588.995 nm)	0.0294	6.84	-12508.0036
	Continuing Calibration Blank	Ni (230.299 nm)	0.0002 u	> 100.00	5.8020
	Continuing Calibration Blank	Pb (220.353 nm)	0.0005 u	> 100.00	1.7134
	Continuing Calibration Blank	Sb (217.582 nm)	0.0146	8.17	37.9624
	Continuing Calibration Blank	Se (196.026 nm)	-0.0008 u	> 100.00	1.9471
	Continuing Calibration Blank	Si (252.851 nm)	0.0104	27.34	136.5071
	Continuing Calibration Blank	Sn (189.925 nm)	0.0017	54.05	8.6213
	Continuing Calibration Blank	Sr (216.596 nm)	0.0001 u	> 100.00	7.6536
	Continuing Calibration Blank	Ti (336.122 nm)	0.0120	28.72	1859.4631
	Continuing Calibration Blank	Tl (190.794 nm)	-0.0013 u	49.15	-2.0762
	Continuing Calibration Blank	V (292.401 nm)	0.0002	79.80	16.0155
	Continuing Calibration Blank	Y (360.074 nm)	1.01	0.55	664076.74
	Continuing Calibration Blank	Y_R (360.074 nm)	1.01	0.55	664048.80
	Continuing Calibration Blank	Zn (213.857 nm)	0.0001	59.17	18.5380
9/6/2024 16:22:38	R2408392-001 3X	Ag (328.068 nm)	0.0031	3.45	203.3592
	R2408392-001 3X	Al (237.312 nm)	88.5805 o	0.44	229580.4477
	R2408392-001 3X	As (188.980 nm)	0.0166	6.49	23.1692
	R2408392-001 3X	B (249.772 nm)	0.1886	0.18	8066.8121
	R2408392-001 3X	Ba (230.424 nm)	0.5222	0.27	32206.3375
	R2408392-001 3X	Be (313.107 nm)	0.0008	0.26	872.3888
	R2408392-001 3X	Ca (317.933 nm)	119.2748 o	0.26	4433758.1192
	R2408392-001 3X	Cd (214.439 nm)	0.0124	0.20	753.1243
	R2408392-001 3X	Co (230.786 nm)	0.0347	0.16	701.1932
	R2408392-001 3X	Cr (267.716 nm)	0.1302	0.19	7454.6924
	R2408392-001 3X	Cu (327.395 nm)	1.1009	0.47	49646.4998
	R2408392-001 3X	Fe (234.350 nm)	33.7536 o	0.26	755749.8004
	R2408392-001 3X	K (766.491 nm)	17.5021	0.48	21816.6907

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408392-001 3X	Mg (279.078 nm)	11.6501	0.19	46406.8294
	R2408392-001 3X	Mn (257.610 nm)	1.4234	0.23	486725.5909
	R2408392-001 3X	Mo (202.032 nm)	0.0164	5.45	181.1069
	R2408392-001 3X	Na (588.995 nm)	29.6778	0.62	408996.7648
	R2408392-001 3X	Ni (230.299 nm)	0.1521	0.38	1955.2004
	R2408392-001 3X	Pb (220.353 nm)	0.2626	0.91	1306.1797
	R2408392-001 3X	Sb (217.582 nm)	0.0129	14.88	34.1002
	R2408392-001 3X	Se (196.026 nm)	0.0021 u	> 100.00	4.0929
	R2408392-001 3X	Si (252.851 nm)	1.6035	0.37	10190.0140
	R2408392-001 3X	Sn (189.925 nm)	0.1595	0.83	415.2622
	R2408392-001 3X	Sr (216.596 nm)	0.2739	0.13	5148.5177
	R2408392-001 3X	Ti (336.122 nm)	0.1375	0.60	20518.0479
	R2408392-001 3X	Tl (190.794 nm)	-0.0001 u	> 100.00	-0.9757
	R2408392-001 3X	V (292.401 nm)	0.0221	0.84	806.7845
	R2408392-001 3X	Y (360.074 nm)	0.96	0.47	630140.75
	R2408392-001 3X	Y_R (360.074 nm)	0.96	0.47	630066.46
	R2408392-001 3X	Zn (213.857 nm)	2.2940 o	0.05	135568.8740
9/6/2024 16:25:43	R2408411-004 3X	Ag (328.068 nm)	-0.0001 u	67.23	13.2057
	R2408411-004 3X	Al (237.312 nm)	0.0046	32.53	0.9505
	R2408411-004 3X	As (188.980 nm)	0.0042	48.79	3.0427
	R2408411-004 3X	B (249.772 nm)	0.0002	55.64	122.9193
	R2408411-004 3X	Ba (230.424 nm)	0.0002	33.80	20.3451
	R2408411-004 3X	Be (313.107 nm)	0.0000 u	> 100.00	-16.6684
	R2408411-004 3X	Ca (317.933 nm)	0.0401	0.69	5002.5136
	R2408411-004 3X	Cd (214.439 nm)	0.0000	10.27	9.2343
	R2408411-004 3X	Co (230.786 nm)	0.0000 u	> 100.00	1.3955
	R2408411-004 3X	Cr (267.716 nm)	0.0005	7.60	36.7049
	R2408411-004 3X	Cu (327.395 nm)	0.0006	55.33	28.0463
	R2408411-004 3X	Fe (234.350 nm)	0.0490	10.37	1167.1989
	R2408411-004 3X	K (766.491 nm)	1.7651	1.17	2892.0561
	R2408411-004 3X	Mg (279.078 nm)	0.0060	38.77	24.2988
	R2408411-004 3X	Mn (257.610 nm)	0.0001	9.19	48.0414
	R2408411-004 3X	Mo (202.032 nm)	0.0010	31.89	16.9639
	R2408411-004 3X	Na (588.995 nm)	0.0603	7.71	-12069.7582
	R2408411-004 3X	Ni (230.299 nm)	0.0005	59.61	9.4667
	R2408411-004 3X	Pb (220.353 nm)	0.0000 u	> 100.00	-0.7710
	R2408411-004 3X	Sb (217.582 nm)	0.0184	9.77	46.7085
	R2408411-004 3X	Se (196.026 nm)	0.0004 u	> 100.00	2.8190
	R2408411-004 3X	Si (252.851 nm)	0.0145	17.91	162.6558
	R2408411-004 3X	Sn (189.925 nm)	0.0054	10.19	18.1548
	R2408411-004 3X	Sr (216.596 nm)	0.0002	42.44	9.3469
	R2408411-004 3X	Ti (336.122 nm)	0.0040	35.08	661.4845
	R2408411-004 3X	Tl (190.794 nm)	-0.0005 u	35.47	-1.4065
	R2408411-004 3X	V (292.401 nm)	0.0000 u	> 100.00	9.0661
	R2408411-004 3X	Y (360.074 nm)	1.01	0.53	661114.40
	R2408411-004 3X	Y_R (360.074 nm)	1.01	0.53	661054.52
	R2408411-004 3X	Zn (213.857 nm)	0.0006	3.66	47.8734
9/6/2024 16:28:47	R2408442-001 3X	Ag (328.068 nm)	0.0005	38.00	45.2071
	R2408442-001 3X	Al (237.312 nm)	18.0313	8.28	46724.2214
	R2408442-001 3X	As (188.980 nm)	0.0162	12.09	22.5837
	R2408442-001 3X	B (249.772 nm)	0.0432	8.31	1936.6858
	R2408442-001 3X	Ba (230.424 nm)	0.1196	8.09	7380.6246
	R2408442-001 3X	Be (313.107 nm)	0.0009	8.47	995.4871
	R2408442-001 3X	Ca (317.933 nm)	123.1652 o	7.42	4578262.6632
	R2408442-001 3X	Cd (214.439 nm)	0.0015	5.64	100.6787
	R2408442-001 3X	Co (230.786 nm)	0.0128	6.56	260.1663
	R2408442-001 3X	Cr (267.716 nm)	0.0273	8.19	1566.0179

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408442-001 3X	Cu (327.395 nm)	0.0509	8.90	2297.2368
	R2408442-001 3X	Fe (234.350 nm)	37.2601 o	7.66	834252.8473
	R2408442-001 3X	K (766.491 nm)	2.5075	10.53	3784.8170
	R2408442-001 3X	Mg (279.078 nm)	57.2610 o	8.06	228091.0683
	R2408442-001 3X	Mn (257.610 nm)	0.8940	8.07	305685.4212
	R2408442-001 3X	Mo (202.032 nm)	0.0013	15.92	20.1331
	R2408442-001 3X	Na (588.995 nm)	0.8496	9.68	-847.3976
	R2408442-001 3X	Ni (230.299 nm)	0.0319	9.19	412.5035
	R2408442-001 3X	Pb (220.353 nm)	0.2148	7.36	1068.6188
	R2408442-001 3X	Sb (217.582 nm)	0.0015	59.89	7.8687
	R2408442-001 3X	Se (196.026 nm)	-0.0009 u	> 100.00	1.8728
	R2408442-001 3X	Si (252.851 nm)	1.1897	7.71	7578.9519
	R2408442-001 3X	Sn (189.925 nm)	0.0071	11.22	22.5642
	R2408442-001 3X	Sr (216.596 nm)	0.1144	7.87	2154.1993
	R2408442-001 3X	Ti (336.122 nm)	0.2538	7.92	37804.2657
	R2408442-001 3X	Tl (190.794 nm)	0.0014 u	> 100.00	0.3484
	R2408442-001 3X	V (292.401 nm)	0.0413	7.75	1502.7371
	R2408442-001 3X	Y (360.074 nm)	0.97	0.87	636030.28
	R2408442-001 3X	Y_R (360.074 nm)	0.97	0.87	635950.25
	R2408442-001 3X	Zn (213.857 nm)	0.2133	8.16	12615.1584
9/6/2024 16:31:51	R2408442-001S 3X	Ag (328.068 nm)	0.0177	16.12	1064.3302
	R2408442-001S 3X	Al (237.312 nm)	23.6869 o	18.20	61382.9024
	R2408442-001S 3X	As (188.980 nm)	0.0314	14.44	47.3174
	R2408442-001S 3X	B (249.772 nm)	0.3496	15.89	14860.3268
	R2408442-001S 3X	Ba (230.424 nm)	0.8093	17.03	49907.3564
	R2408442-001S 3X	Be (313.107 nm)	0.0182	17.46	21277.9180
	R2408442-001S 3X	Ca (317.933 nm)	124.7837 o	16.16	4638377.7912
	R2408442-001S 3X	Cd (214.439 nm)	0.0188	16.32	1134.1474
	R2408442-001S 3X	Co (230.786 nm)	0.1803	17.00	3642.5157
	R2408442-001S 3X	Cr (267.716 nm)	0.1015	17.57	5809.4960
	R2408442-001S 3X	Cu (327.395 nm)	0.1433	18.14	6464.2807
	R2408442-001S 3X	Fe (234.350 nm)	43.2713 o	16.96	968831.5370
	R2408442-001S 3X	K (766.491 nm)	9.4096	17.05	12084.9259
	R2408442-001S 3X	Mg (279.078 nm)	47.9495 o	17.25	191000.2180
	R2408442-001S 3X	Mn (257.610 nm)	1.2149	17.14	415413.0774
	R2408442-001S 3X	Mo (202.032 nm)	0.1725	14.69	1842.2794
	R2408442-001S 3X	Na (588.995 nm)	8.4860	17.51	107717.6275
	R2408442-001S 3X	Ni (230.299 nm)	0.1987	17.12	2553.5521
	R2408442-001S 3X	Pb (220.353 nm)	0.3963	15.82	1971.7951
	R2408442-001S 3X	Sb (217.582 nm)	0.1238	18.16	290.2050
	R2408442-001S 3X	Se (196.026 nm)	0.3513	16.40	261.4667
	R2408442-001S 3X	Si (252.851 nm)	1.8849	16.00	11966.0909
	R2408442-001S 3X	Sn (189.925 nm)	1.7306	16.72	4464.4166
	R2408442-001S 3X	Sr (216.596 nm)	0.8217	16.89	15434.7261
	R2408442-001S 3X	Ti (336.122 nm)	0.4639	17.45	69035.3702
	R2408442-001S 3X	Tl (190.794 nm)	0.6881	15.67	619.8105
	R2408442-001S 3X	V (292.401 nm)	0.2219	17.55	8023.6764
	R2408442-001S 3X	Y (360.074 nm)	0.97	1.14	638475.29
	R2408442-001S 3X	Y_R (360.074 nm)	0.97	1.14	638390.42
	R2408442-001S 3X	Zn (213.857 nm)	0.4034	17.14	23848.5830
9/6/2024 16:34:55	R2408442-001SD 3X	Ag (328.068 nm)	0.0179	8.91	1073.3636
	R2408442-001SD 3X	Al (237.312 nm)	19.9731	9.88	51757.1003
	R2408442-001SD 3X	As (188.980 nm)	0.0318	9.47	48.1018
	R2408442-001SD 3X	B (249.772 nm)	0.3501	9.00	14878.4319
	R2408442-001SD 3X	Ba (230.424 nm)	0.8001	9.38	49337.9513
	R2408442-001SD 3X	Be (313.107 nm)	0.0182	9.45	21314.7671
	R2408442-001SD 3X	Ca (317.933 nm)	176.9175 o	8.75	6574793.3221

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408442-001SD 3X	Cd (214.439 nm)	0.0189	9.53	1141.3515
	R2408442-001SD 3X	Co (230.786 nm)	0.1788	9.38	3610.9489
	R2408442-001SD 3X	Cr (267.716 nm)	0.1008	9.35	5772.6687
	R2408442-001SD 3X	Cu (327.395 nm)	0.1466	9.71	6613.1536
	R2408442-001SD 3X	Fe (234.350 nm)	38.2467 o	9.12	856340.8230
	R2408442-001SD 3X	K (766.491 nm)	9.8431	9.93	12606.2415
	R2408442-001SD 3X	Mg (279.078 nm)	73.6195 o	9.38	293252.8064
	R2408442-001SD 3X	Mn (257.610 nm)	1.1971	9.28	409344.0117
	R2408442-001SD 3X	Mo (202.032 nm)	0.1718	7.62	1835.2659
	R2408442-001SD 3X	Na (588.995 nm)	8.5729	10.17	108952.0938
	R2408442-001SD 3X	Ni (230.299 nm)	0.1952	9.06	2508.9240
	R2408442-001SD 3X	Pb (220.353 nm)	0.4434	8.65	2206.0259
	R2408442-001SD 3X	Sb (217.582 nm)	0.1312	9.61	307.2203
	R2408442-001SD 3X	Se (196.026 nm)	0.3528	9.91	262.5602
	R2408442-001SD 3X	Si (252.851 nm)	1.6834	9.22	10694.1877
	R2408442-001SD 3X	Sn (189.925 nm)	1.7338	9.06	4472.7763
	R2408442-001SD 3X	Sr (216.596 nm)	0.8491	9.04	15949.6585
	R2408442-001SD 3X	Ti (336.122 nm)	0.4258	9.51	63374.1341
	R2408442-001SD 3X	Tl (190.794 nm)	0.6768	8.91	609.6761
	R2408442-001SD 3X	V (292.401 nm)	0.2173	9.44	7858.0914
	R2408442-001SD 3X	Y (360.074 nm)	0.96	0.90	629458.65
	R2408442-001SD 3X	Y_R (360.074 nm)	0.96	0.90	629329.44
	R2408442-001SD 3X	Zn (213.857 nm)	0.4619	9.43	27303.1679
9/6/2024 16:37:59	R2408442-001A 3X	Ag (328.068 nm)	0.0497	1.75	2955.9613
	R2408442-001A 3X	Al (237.312 nm)	21.1814	2.09	54888.9904
	R2408442-001A 3X	As (188.980 nm)	0.0551	2.67	86.0815
	R2408442-001A 3X	B (249.772 nm)	0.9726	2.35	41134.0953
	R2408442-001A 3X	Ba (230.424 nm)	1.9879	2.31	122568.9198
	R2408442-001A 3X	Be (313.107 nm)	0.0501	2.34	58605.0855
	R2408442-001A 3X	Ca (317.933 nm)	130.9032 o	2.40	4865675.2107
	R2408442-001A 3X	Cd (214.439 nm)	0.0498	2.51	2994.6428
	R2408442-001A 3X	Co (230.786 nm)	0.4876	2.41	9846.5381
	R2408442-001A 3X	Cr (267.716 nm)	0.2248	2.30	12865.3113
	R2408442-001A 3X	Cu (327.395 nm)	0.3048	2.25	13745.8230
	R2408442-001A 3X	Fe (234.350 nm)	40.3710 o	2.42	903900.8051
	R2408442-001A 3X	K (766.491 nm)	23.5435	2.07	29081.7803
	R2408442-001A 3X	Mg (279.078 nm)	62.3307 o	2.48	248285.6232
	R2408442-001A 3X	Mn (257.610 nm)	1.4161	2.40	484222.4511
	R2408442-001A 3X	Mo (202.032 nm)	0.4794	3.73	5110.3310
	R2408442-001A 3X	Na (588.995 nm)	21.6469	1.82	294823.3106
	R2408442-001A 3X	Ni (230.299 nm)	0.4961	2.08	6371.1957
	R2408442-001A 3X	Pb (220.353 nm)	0.7065	2.36	3515.2461
	R2408442-001A 3X	Sb (217.582 nm)	0.4890	2.06	1133.4343
	R2408442-001A 3X	Se (196.026 nm)	0.9956	2.44	736.4361
	R2408442-001A 3X	Si (252.851 nm)	1.5684	2.42	9968.4514
	R2408442-001A 3X	Sn (189.925 nm)	4.8763	2.39	12571.8060
	R2408442-001A 3X	Sr (216.596 nm)	2.0528	2.52	38553.2672
	R2408442-001A 3X	Ti (336.122 nm)	0.7668	2.20	114063.0197
	R2408442-001A 3X	Tl (190.794 nm)	1.9053	2.33	1717.9788
	R2408442-001A 3X	V (292.401 nm)	0.5341	2.28	19296.1201
	R2408442-001A 3X	Y (360.074 nm)	0.95	1.59	625158.46
	R2408442-001A 3X	Y_R (360.074 nm)	0.95	1.59	625037.87
	R2408442-001A 3X	Zn (213.857 nm)	0.7161	2.24	42327.4396
9/6/2024 16:41:03	R2408442-001L 15X	Ag (328.068 nm)	0.0000 u	> 100.00	17.7476
	R2408442-001L 15X	Al (237.312 nm)	5.6058	6.79	14518.6936
	R2408442-001L 15X	As (188.980 nm)	0.0059	39.01	5.8102
	R2408442-001L 15X	B (249.772 nm)	0.0133	7.24	672.8881

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408442-001L 15X	Ba (230.424 nm)	0.0373	6.71	2305.9376
	R2408442-001L 15X	Be (313.107 nm)	0.0002	9.36	244.6268
	R2408442-001L 15X	Ca (317.933 nm)	38.6023	6.63	1437325.8583
	R2408442-001L 15X	Cd (214.439 nm)	0.0005	18.03	35.3303
	R2408442-001L 15X	Co (230.786 nm)	0.0036	12.61	74.0150
	R2408442-001L 15X	Cr (267.716 nm)	0.0084	7.56	487.3164
	R2408442-001L 15X	Cu (327.395 nm)	0.0147	8.03	664.2616
	R2408442-001L 15X	Fe (234.350 nm)	11.7200 o	6.25	262460.0719
	R2408442-001L 15X	K (766.491 nm)	0.7076	7.26	1620.3512
	R2408442-001L 15X	Mg (279.078 nm)	17.4831	6.68	69641.7138
	R2408442-001L 15X	Mn (257.610 nm)	0.2763	6.67	94498.8474
	R2408442-001L 15X	Mo (202.032 nm)	0.0049	14.47	58.7051
	R2408442-001L 15X	Na (588.995 nm)	0.2551	7.13	-9300.0688
	R2408442-001L 15X	Ni (230.299 nm)	0.0102	8.15	134.0354
	R2408442-001L 15X	Pb (220.353 nm)	0.0666	5.52	330.8110
	R2408442-001L 15X	Sb (217.582 nm)	0.0019	54.90	8.7240
	R2408442-001L 15X	Se (196.026 nm)	0.0041	79.28	5.5500
	R2408442-001L 15X	Si (252.851 nm)	0.5361	6.71	3453.8723
	R2408442-001L 15X	Sn (189.925 nm)	0.0054	6.31	18.1040
	R2408442-001L 15X	Sr (216.596 nm)	0.0350	6.32	662.4216
	R2408442-001L 15X	Ti (336.122 nm)	0.0848	5.07	12672.9693
	R2408442-001L 15X	Tl (190.794 nm)	0.0017	45.21	0.6209
	R2408442-001L 15X	V (292.401 nm)	0.0128	7.34	471.4196
	R2408442-001L 15X	Y (360.074 nm)	1.00	0.64	652083.84
	R2408442-001L 15X	Y_R (360.074 nm)	0.99	0.64	651970.86
	R2408442-001L 15X	Zn (213.857 nm)	0.0659	6.68	3902.7882
9/6/2024 16:44:07	R2408481-003 3X	Ag (328.068 nm)	0.0002	96.45	29.9300
	R2408481-003 3X	Al (237.312 nm)	60.5418 o	10.50	156907.0395
	R2408481-003 3X	As (188.980 nm)	0.0034	44.21	1.6594
	R2408481-003 3X	B (249.772 nm)	0.0104	11.39	552.9880
	R2408481-003 3X	Ba (230.424 nm)	0.0744	10.82	4597.4963
	R2408481-003 3X	Be (313.107 nm)	0.0000	44.92	1.9704
	R2408481-003 3X	Ca (317.933 nm)	3.3792	10.50	129028.4105
	R2408481-003 3X	Cd (214.439 nm)	0.0002	35.02	22.8152
	R2408481-003 3X	Co (230.786 nm)	0.0006	26.85	13.4189
	R2408481-003 3X	Cr (267.716 nm)	0.0051	10.77	297.5382
	R2408481-003 3X	Cu (327.395 nm)	0.1219	10.98	5499.3508
	R2408481-003 3X	Fe (234.350 nm)	1.9439	10.05	43590.4520
	R2408481-003 3X	K (766.491 nm)	0.4299	13.48	1286.4492
	R2408481-003 3X	Mg (279.078 nm)	0.3878	10.26	1545.2035
	R2408481-003 3X	Mn (257.610 nm)	0.1135	10.33	38807.9129
	R2408481-003 3X	Mo (202.032 nm)	0.0075	9.74	86.3002
	R2408481-003 3X	Na (588.995 nm)	0.5037	11.46	-5765.6700
	R2408481-003 3X	Ni (230.299 nm)	0.0048	16.00	64.2153
	R2408481-003 3X	Pb (220.353 nm)	0.0039	34.00	18.9109
	R2408481-003 3X	Sb (217.582 nm)	0.0019	87.24	8.8061
	R2408481-003 3X	Se (196.026 nm)	0.0029	47.05	4.6808
	R2408481-003 3X	Si (252.851 nm)	0.6431	10.00	4129.0685
	R2408481-003 3X	Sn (189.925 nm)	0.0137	4.31	39.7383
	R2408481-003 3X	Sr (216.596 nm)	0.1728	10.03	3250.8397
	R2408481-003 3X	Ti (336.122 nm)	0.0378	6.88	5694.9490
	R2408481-003 3X	Tl (190.794 nm)	-0.0007 u	> 100.00	-1.5107
	R2408481-003 3X	V (292.401 nm)	0.0014	12.09	59.9220
	R2408481-003 3X	Y (360.074 nm)	1.01	0.83	662882.23
	R2408481-003 3X	Y_R (360.074 nm)	1.01	0.82	662744.62
	R2408481-003 3X	Zn (213.857 nm)	0.1796	10.46	10620.8104
9/6/2024 16:47:11	Continuing Calibration Verification	Ag (328.068 nm)	0.5094	2.60	30124.0642

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	Al (237.312 nm)	9.9243	2.65	25711.6497
	Continuing Calibration Verification	As (188.980 nm)	0.9859	2.21	1606.0705
	Continuing Calibration Verification	B (249.772 nm)	2.2813	2.48	96329.6939
	Continuing Calibration Verification	Ba (230.424 nm)	9.6693	2.60	596167.0156
	Continuing Calibration Verification	Be (313.107 nm)	0.2505	2.39	293339.8648
	Continuing Calibration Verification	Ca (317.933 nm)	25.5859	2.33	953854.0762
	Continuing Calibration Verification	Cd (214.439 nm)	0.5037	2.36	30195.7293
	Continuing Calibration Verification	Co (230.786 nm)	2.5051	2.46	50580.3643
	Continuing Calibration Verification	Cr (267.716 nm)	0.5129	2.32	29344.1762
	Continuing Calibration Verification	Cu (327.395 nm)	1.2594	2.78	56795.8146
	Continuing Calibration Verification	Fe (234.350 nm)	5.0014	2.21	112042.3093
	Continuing Calibration Verification	K (766.491 nm)	25.3592	2.57	31265.2958
	Continuing Calibration Verification	Mg (279.078 nm)	25.6674	2.28	102242.6031
	Continuing Calibration Verification	Mn (257.610 nm)	0.7414	2.41	253535.8765
	Continuing Calibration Verification	Mo (202.032 nm)	2.5592	1.47	27252.4811
	Continuing Calibration Verification	Na (588.995 nm)	25.5291	2.71	350016.0554
	Continuing Calibration Verification	Ni (230.299 nm)	1.9930	2.40	25586.0473
	Continuing Calibration Verification	Pb (220.353 nm)	0.5035	2.67	2505.3055
	Continuing Calibration Verification	Sb (217.582 nm)	4.9914	2.38	11530.0815
	Continuing Calibration Verification	Se (196.026 nm)	0.4852	3.39	360.2098
	Continuing Calibration Verification	Si (252.851 nm)	9.8037	1.76	61938.9391
	Continuing Calibration Verification	Sn (189.925 nm)	5.0875	2.38	13116.1970
	Continuing Calibration Verification	Sr (216.596 nm)	2.5363	2.23	47632.7690
	Continuing Calibration Verification	Ti (336.122 nm)	2.5806	2.26	383679.2286
	Continuing Calibration Verification	Tl (190.794 nm)	1.0002	2.48	901.4259
	Continuing Calibration Verification	V (292.401 nm)	2.5571	2.41	92356.6887
	Continuing Calibration Verification	Y (360.074 nm)	0.96	2.98	628157.93
	Continuing Calibration Verification	Y_R (360.074 nm)	0.96	2.98	627979.39
	Continuing Calibration Verification	Zn (213.857 nm)	1.0004	2.20	59123.6282
9/6/2024 16:50:14	Continuing Calibration Blank	Ag (328.068 nm)	0.0001 u	> 100.00	22.6165
	Continuing Calibration Blank	Al (237.312 nm)	0.0007 u	> 100.00	-9.1226
	Continuing Calibration Blank	As (188.980 nm)	0.0018	45.25	-1.0038
	Continuing Calibration Blank	B (249.772 nm)	0.0006	40.36	140.4275
	Continuing Calibration Blank	Ba (230.424 nm)	0.0003	23.80	25.7361
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	27.91	-9.9396
	Continuing Calibration Blank	Ca (317.933 nm)	0.0045	4.68	3680.4958
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	59.75	6.6044
	Continuing Calibration Blank	Co (230.786 nm)	0.0003	36.30	8.0405
	Continuing Calibration Blank	Cr (267.716 nm)	0.0001	48.94	8.6732
	Continuing Calibration Blank	Cu (327.395 nm)	0.0000 u	> 100.00	0.0186
	Continuing Calibration Blank	Fe (234.350 nm)	0.0088	28.79	268.3139
	Continuing Calibration Blank	K (766.491 nm)	0.0353 u	> 100.00	811.8870
	Continuing Calibration Blank	Mg (279.078 nm)	0.0004 u	> 100.00	1.9551
	Continuing Calibration Blank	Mn (257.610 nm)	0.0001	19.31	34.3079
	Continuing Calibration Blank	Mo (202.032 nm)	0.0082	12.17	92.9879
	Continuing Calibration Blank	Na (588.995 nm)	0.0221	12.54	-12613.1051
	Continuing Calibration Blank	Ni (230.299 nm)	0.0002	62.48	5.3600
	Continuing Calibration Blank	Pb (220.353 nm)	0.0006	47.38	2.5116
	Continuing Calibration Blank	Sb (217.582 nm)	0.0151	8.94	39.1876
	Continuing Calibration Blank	Se (196.026 nm)	0.0000 u	> 100.00	2.5182
	Continuing Calibration Blank	Si (252.851 nm)	0.0081	39.47	122.3067
	Continuing Calibration Blank	Sn (189.925 nm)	0.0017	22.83	8.7288
	Continuing Calibration Blank	Sr (216.596 nm)	-0.0001 u	81.00	4.3223
	Continuing Calibration Blank	Ti (336.122 nm)	0.0123	27.78	1895.9355
	Continuing Calibration Blank	Tl (190.794 nm)	-0.0016 u	> 100.00	-2.3721
	Continuing Calibration Blank	V (292.401 nm)	0.0002	33.73	17.4187
	Continuing Calibration Blank	Y (360.074 nm)	1.02	0.51	668860.85

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Y_R (360.074 nm)	1.02	0.51	668675.81
	Continuing Calibration Blank	Zn (213.857 nm)	0.0002	17.90	20.3531
9/6/2024 16:53:18	PBW-444147	Ag (328.068 nm)	0.0000 u	> 100.00	15.5618
	PBW-444147	Al (237.312 nm)	0.0041	11.96	-0.4815
	PBW-444147	As (188.980 nm)	0.0015	57.16	-1.5174
	PBW-444147	B (249.772 nm)	0.0010	5.79	155.9659
	PBW-444147	Ba (230.424 nm)	0.0001	34.88	17.1925
	PBW-444147	Be (313.107 nm)	0.0000 u	> 100.00	-12.8047
	PBW-444147	Ca (317.933 nm)	0.0150	3.22	4070.3669
	PBW-444147	Cd (214.439 nm)	0.0000	> 100.00	9.2143
	PBW-444147	Co (230.786 nm)	0.0000 u	> 100.00	1.0726
	PBW-444147	Cr (267.716 nm)	0.0000 u	> 100.00	7.4375
	PBW-444147	Cu (327.395 nm)	0.0001	61.29	5.9287
	PBW-444147	Fe (234.350 nm)	0.0076	27.78	241.8213
	PBW-444147	K (766.491 nm)	0.0169 u	> 100.00	789.7257
	PBW-444147	Mg (279.078 nm)	0.0007	82.70	3.2686
	PBW-444147	Mn (257.610 nm)	0.0001	9.51	35.5569
	PBW-444147	Mo (202.032 nm)	0.0019	31.90	26.0922
	PBW-444147	Na (588.995 nm)	0.0304	19.87	-12494.0168
	PBW-444147	Ni (230.299 nm)	0.0002 u	> 100.00	5.2445
	PBW-444147	Pb (220.353 nm)	0.0004 u	> 100.00	1.3851
	PBW-444147	Sb (217.582 nm)	0.0079	12.97	22.5470
	PBW-444147	Se (196.026 nm)	0.0013 u	> 100.00	3.4587
	PBW-444147	Si (252.851 nm)	0.0198	18.20	195.9155
	PBW-444147	Sn (189.925 nm)	0.0020	22.83	9.4930
	PBW-444147	Sr (216.596 nm)	0.0001 u	> 100.00	7.3176
	PBW-444147	Ti (336.122 nm)	0.0049	37.16	798.7046
	PBW-444147	Tl (190.794 nm)	-0.0021 u	27.58	-2.7889
	PBW-444147	V (292.401 nm)	0.0000 u	> 100.00	10.3782
	PBW-444147	Y (360.074 nm)	1.02	0.52	670219.74
	PBW-444147	Y_R (360.074 nm)	1.02	0.52	670024.22
	PBW-444147	Zn (213.857 nm)	0.0003	10.23	25.3365
9/6/2024 16:56:22	LCSW-444147	Ag (328.068 nm)	0.0493	2.20	2931.2577
	LCSW-444147	Al (237.312 nm)	1.9724	2.16	5101.3796
	LCSW-444147	As (188.980 nm)	0.0374	7.87	57.2297
	LCSW-444147	B (249.772 nm)	0.9095	2.29	38472.4301
	LCSW-444147	Ba (230.424 nm)	1.9146	2.30	118051.8834
	LCSW-444147	Be (313.107 nm)	0.0492	2.33	57622.0127
	LCSW-444147	Ca (317.933 nm)	1.9927	2.35	77529.4069
	LCSW-444147	Cd (214.439 nm)	0.0507	2.33	3047.2980
	LCSW-444147	Co (230.786 nm)	0.4982	2.33	10059.8591
	LCSW-444147	Cr (267.716 nm)	0.2000	2.47	11445.6467
	LCSW-444147	Cu (327.395 nm)	0.2544	2.19	11471.9109
	LCSW-444147	Fe (234.350 nm)	0.9958	2.34	22364.5002
	LCSW-444147	K (766.491 nm)	19.4875	2.20	24204.1809
	LCSW-444147	Mg (279.078 nm)	1.9528	2.41	7779.2394
	LCSW-444147	Mn (257.610 nm)	0.4828	2.36	165081.7922
	LCSW-444147	Mo (202.032 nm)	0.4672	3.21	4980.5562
	LCSW-444147	Na (588.995 nm)	19.6831	2.11	266903.8790
	LCSW-444147	Ni (230.299 nm)	0.4868	2.38	6251.8606
	LCSW-444147	Pb (220.353 nm)	0.5120	2.75	2547.3412
	LCSW-444147	Sb (217.582 nm)	0.4874	2.14	1129.8588
	LCSW-444147	Se (196.026 nm)	0.9733	2.49	719.9767
	LCSW-444147	Si (252.851 nm)	0.3192	2.34	2085.1423
	LCSW-444147	Sn (189.925 nm)	4.9212	2.28	12687.4898
	LCSW-444147	Sr (216.596 nm)	2.0094	2.43	37737.3018
	LCSW-444147	Ti (336.122 nm)	0.4921	2.18	73216.0358

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	LCSW-444147	Tl (190.794 nm)	1.9633	2.19	1770.3070
	LCSW-444147	V (292.401 nm)	0.4925	2.34	17796.4894
	LCSW-444147	Y (360.074 nm)	0.99	1.94	646701.80
	LCSW-444147	Y_R (360.074 nm)	0.99	1.94	646517.48
	LCSW-444147	Zn (213.857 nm)	0.5049	2.33	29846.5319
9/6/2024 16:59:27	DLCSW-444147	Ag (328.068 nm)	0.0491	0.24	2921.9513
	DLCSW-444147	Al (237.312 nm)	1.9642	0.18	5079.9766
	DLCSW-444147	As (188.980 nm)	0.0380	3.25	58.1022
	DLCSW-444147	B (249.772 nm)	0.9064	0.04	38342.9609
	DLCSW-444147	Ba (230.424 nm)	1.9078	0.02	117631.3501
	DLCSW-444147	Be (313.107 nm)	0.0491	0.05	57462.8134
	DLCSW-444147	Ca (317.933 nm)	1.9866	0.07	77302.5313
	DLCSW-444147	Cd (214.439 nm)	0.0505	0.23	3032.5799
	DLCSW-444147	Co (230.786 nm)	0.4959	0.16	10014.8048
	DLCSW-444147	Cr (267.716 nm)	0.1992	0.20	11399.8448
	DLCSW-444147	Cu (327.395 nm)	0.2536	0.24	11436.7409
	DLCSW-444147	Fe (234.350 nm)	0.9983	0.29	22421.0438
	DLCSW-444147	K (766.491 nm)	19.4120	0.41	24113.4319
	DLCSW-444147	Mg (279.078 nm)	1.9458	0.05	7751.3634
	DLCSW-444147	Mn (257.610 nm)	0.4813	0.06	164584.7307
	DLCSW-444147	Mo (202.032 nm)	0.4729	1.94	5040.5136
	DLCSW-444147	Na (588.995 nm)	19.6269	0.50	266105.3485
	DLCSW-444147	Ni (230.299 nm)	0.4860	0.14	6241.2090
	DLCSW-444147	Pb (220.353 nm)	0.5093	0.40	2534.0807
	DLCSW-444147	Sb (217.582 nm)	0.4873	1.00	1129.4854
	DLCSW-444147	Se (196.026 nm)	0.9765	0.57	722.3088
	DLCSW-444147	Si (252.851 nm)	0.3186	0.55	2081.4502
	DLCSW-444147	Sn (189.925 nm)	4.9208	0.04	12686.4434
	DLCSW-444147	Sr (216.596 nm)	2.0073	0.19	37698.0855
	DLCSW-444147	Ti (336.122 nm)	0.4956	0.06	73745.4917
	DLCSW-444147	Tl (190.794 nm)	1.9549	0.18	1762.7453
	DLCSW-444147	V (292.401 nm)	0.4914	0.07	17756.4980
	DLCSW-444147	Y (360.074 nm)	1.00	0.57	654505.30
	DLCSW-444147	Y_R (360.074 nm)	1.00	0.57	654327.99
	DLCSW-444147	Zn (213.857 nm)	0.5027	0.09	29718.4533
9/6/2024 17:02:31	R2408146-077 100X	Ag (328.068 nm)	0.0000 u	> 100.00	19.7976
	R2408146-077 100X	Al (237.312 nm)	0.0001 u	> 100.00	-10.7247
	R2408146-077 100X	As (188.980 nm)	0.2042	1.96	329.5729
	R2408146-077 100X	B (249.772 nm)	0.0084	1.98	466.1121
	R2408146-077 100X	Ba (230.424 nm)	0.0002	26.16	19.8651
	R2408146-077 100X	Be (313.107 nm)	0.0000 u	> 100.00	-15.9011
	R2408146-077 100X	Ca (317.933 nm)	0.0251	1.21	4443.0846
	R2408146-077 100X	Cd (214.439 nm)	0.0000 u	> 100.00	10.0156
	R2408146-077 100X	Co (230.786 nm)	0.0003	20.57	7.3881
	R2408146-077 100X	Cr (267.716 nm)	0.0002	16.88	15.7968
	R2408146-077 100X	Cu (327.395 nm)	0.0016	12.70	70.3604
	R2408146-077 100X	Fe (234.350 nm)	0.0176	3.26	464.1059
	R2408146-077 100X	K (766.491 nm)	0.4966	6.85	1366.6027
	R2408146-077 100X	Mg (279.078 nm)	0.0828	1.63	330.1845
	R2408146-077 100X	Mn (257.610 nm)	0.0001	4.86	60.1586
	R2408146-077 100X	Mo (202.032 nm)	0.0115	9.77	128.3651
	R2408146-077 100X	Na (588.995 nm)	95.4828 o	1.25	1344533.6444
	R2408146-077 100X	Ni (230.299 nm)	0.0031	3.00	43.0167
	R2408146-077 100X	Pb (220.353 nm)	0.0013	75.08	5.8745
	R2408146-077 100X	Sb (217.582 nm)	0.0067	22.38	19.7396
	R2408146-077 100X	Se (196.026 nm)	0.0018	3.61	3.8211
	R2408146-077 100X	Si (252.851 nm)	0.0565	1.12	427.4706

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408146-077 100X	Sn (189.925 nm)	0.0040	20.64	14.7273
	R2408146-077 100X	Sr (216.596 nm)	0.0075	1.55	145.6121
	R2408146-077 100X	Ti (336.122 nm)	0.0045	33.78	738.2178
	R2408146-077 100X	Tl (190.794 nm)	0.0001 u	> 100.00	-0.8725
	R2408146-077 100X	V (292.401 nm)	0.0007	19.60	33.3814
	R2408146-077 100X	Y (360.074 nm)	0.98	0.43	643961.05
	R2408146-077 100X	Y_R (360.074 nm)	0.98	0.43	643828.99
	R2408146-077 100X	Zn (213.857 nm)	0.0004	19.66	35.1952
9/6/2024 17:05:35	R2408346-002 2X R2408347-002	Ag (328.068 nm)	0.0000 u	> 100.00	19.5450
	R2408346-002 2X	Al (237.312 nm)	0.0102	11.76	15.4045
	R2408346-002 2X	As (188.980 nm)	0.0040	43.17	2.6345
	R2408346-002 2X	B (249.772 nm)	0.0802	0.15	3497.8906
	R2408346-002 2X	Ba (230.424 nm)	0.0256	0.47	1584.9897
	R2408346-002 2X	Be (313.107 nm)	0.0000 u	> 100.00	-19.2079
	R2408346-002 2X	Ca (317.933 nm)	1.7449	0.05	68325.3567
	R2408346-002 2X	Cd (214.439 nm)	0.0001	61.89	12.5542
	R2408346-002 2X	Co (230.786 nm)	0.0004	10.89	9.8398
	R2408346-002 2X	Cr (267.716 nm)	0.0002	18.77	18.3777
	R2408346-002 2X	Cu (327.395 nm)	0.0029	5.14	128.4980
	R2408346-002 2X	Fe (234.350 nm)	0.0217	4.15	557.4872
	R2408346-002 2X	K (766.491 nm)	0.5021	5.83	1373.2424
	R2408346-002 2X	Mg (279.078 nm)	0.4840	0.23	1928.1248
	R2408346-002 2X	Mn (257.610 nm)	0.0067	0.41	2294.8501
	R2408346-002 2X	Mo (202.032 nm)	0.0021	24.43	28.7821
	R2408346-002 2X	Na (588.995 nm)	37.7425	0.76	523650.5516
	R2408346-002 2X	Ni (230.299 nm)	0.0057	7.88	75.9406
	R2408346-002 2X	Pb (220.353 nm)	0.0008	17.67	3.6370
	R2408346-002 2X	Sb (217.582 nm)	0.0039	69.35	13.3425
	R2408346-002 2X	Se (196.026 nm)	0.0017 u	> 100.00	3.7854
	R2408346-002 2X	Si (252.851 nm)	1.3909	0.40	8848.2604
	R2408346-002 2X	Sn (189.925 nm)	0.0015	46.50	8.2069
	R2408346-002 2X	Sr (216.596 nm)	0.0542	0.51	1023.5506
	R2408346-002 2X	Ti (336.122 nm)	0.0023	40.79	413.6851
	R2408346-002 2X	Tl (190.794 nm)	-0.0023 u	65.60	-3.0031
	R2408346-002 2X	V (292.401 nm)	0.0000 u	> 100.00	9.9208
	R2408346-002 2X	Y (360.074 nm)	1.00	0.58	655310.73
	R2408346-002 2X	Y_R (360.074 nm)	1.00	0.58	655201.17
	R2408346-002 2X	Zn (213.857 nm)	0.0069	6.60	420.3471
9/6/2024 17:08:40	R2408346-002L 10X	Ag (328.068 nm)	0.0000 u	> 100.00	17.4973
	R2408346-002L 10X	Al (237.312 nm)	0.0012	> 100.00	-7.8757
	R2408346-002L 10X	As (188.980 nm)	0.0034	23.79	1.6425
	R2408346-002L 10X	B (249.772 nm)	0.0154	0.82	764.3518
	R2408346-002L 10X	Ba (230.424 nm)	0.0051	1.73	322.8374
	R2408346-002L 10X	Be (313.107 nm)	0.0000 u	> 100.00	-12.4594
	R2408346-002L 10X	Ca (317.933 nm)	0.3549	1.27	16693.9155
	R2408346-002L 10X	Cd (214.439 nm)	0.0000 u	23.62	5.6498
	R2408346-002L 10X	Co (230.786 nm)	0.0002	10.67	4.6759
	R2408346-002L 10X	Cr (267.716 nm)	0.0000 u	> 100.00	4.6620
	R2408346-002L 10X	Cu (327.395 nm)	0.0002	> 100.00	7.4743
	R2408346-002L 10X	Fe (234.350 nm)	0.0045	8.61	171.8467
	R2408346-002L 10X	K (766.491 nm)	0.0997	4.35	889.3635
	R2408346-002L 10X	Mg (279.078 nm)	0.0954	1.30	380.3512
	R2408346-002L 10X	Mn (257.610 nm)	0.0014	1.61	477.1691
	R2408346-002L 10X	Mo (202.032 nm)	0.0008	21.49	14.4255
	R2408346-002L 10X	Na (588.995 nm)	7.5889	1.66	94963.4498
	R2408346-002L 10X	Ni (230.299 nm)	0.0013	42.81	19.7106
	R2408346-002L 10X	Pb (220.353 nm)	0.0004 u	> 100.00	1.4128

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408346-002L 10X	Sb (217.582 nm)	0.0013	> 100.00	7.2574
	R2408346-002L 10X	Se (196.026 nm)	0.0003 u	> 100.00	2.7241
	R2408346-002L 10X	Si (252.851 nm)	0.2842	1.01	1864.7261
	R2408346-002L 10X	Sn (189.925 nm)	0.0005 u	> 100.00	5.4882
	R2408346-002L 10X	Sr (216.596 nm)	0.0109	0.67	210.2998
	R2408346-002L 10X	Ti (336.122 nm)	0.0011	48.84	236.7129
	R2408346-002L 10X	Tl (190.794 nm)	0.0000 u	> 100.00	-0.9657
	R2408346-002L 10X	V (292.401 nm)	0.0001	81.11	13.2892
	R2408346-002L 10X	Y (360.074 nm)	1.02	0.55	668735.72
	R2408346-002L 10X	Y_R (360.074 nm)	1.02	0.55	668634.86
	R2408346-002L 10X	Zn (213.857 nm)	0.0012	2.34	83.8770
9/6/2024 17:11:44	Continuing Calibration Verification	Ag (328.068 nm)	0.5009	0.24	29623.3387
	Continuing Calibration Verification	Al (237.312 nm)	9.7441	0.40	25244.7167
	Continuing Calibration Verification	As (188.980 nm)	0.9694	0.18	1579.1038
	Continuing Calibration Verification	B (249.772 nm)	2.2410 Q	0.18	94632.0108 Q
	Continuing Calibration Verification	Ba (230.424 nm)	9.5091	0.22	586291.2947
	Continuing Calibration Verification	Be (313.107 nm)	0.2463	0.11	288333.6370
	Continuing Calibration Verification	Ca (317.933 nm)	25.1443	0.01	937452.2991
	Continuing Calibration Verification	Cd (214.439 nm)	0.4956	0.05	29709.7247
	Continuing Calibration Verification	Co (230.786 nm)	2.4604	0.21	49678.5257
	Continuing Calibration Verification	Cr (267.716 nm)	0.5046	0.07	28872.3518
	Continuing Calibration Verification	Cu (327.395 nm)	1.2283	0.25	55391.9132
	Continuing Calibration Verification	Fe (234.350 nm)	4.8956	0.12	109673.2751
	Continuing Calibration Verification	K (766.491 nm)	24.8336	0.50	30633.1959
	Continuing Calibration Verification	Mg (279.078 nm)	25.2178	0.04	100451.6446
	Continuing Calibration Verification	Mn (257.610 nm)	0.7286	0.07	249128.6661
	Continuing Calibration Verification	Mo (202.032 nm)	2.5183	0.82	26816.8422
	Continuing Calibration Verification	Na (588.995 nm)	25.0581	0.74	343318.8312
	Continuing Calibration Verification	Ni (230.299 nm)	1.9666	0.01	25247.4166
	Continuing Calibration Verification	Pb (220.353 nm)	0.4958	0.32	2467.0217
	Continuing Calibration Verification	Sb (217.582 nm)	4.8971	0.20	11312.3722
	Continuing Calibration Verification	Se (196.026 nm)	0.4745	2.40	352.3147
	Continuing Calibration Verification	Si (252.851 nm)	9.6056	0.62	60688.4439
	Continuing Calibration Verification	Sn (189.925 nm)	5.0042	0.05	12901.5839
	Continuing Calibration Verification	Sr (216.596 nm)	2.4887	0.28	46738.5165
	Continuing Calibration Verification	Ti (336.122 nm)	2.5409	0.09	377776.4143
	Continuing Calibration Verification	Tl (190.794 nm)	0.9832	0.29	886.1026
	Continuing Calibration Verification	V (292.401 nm)	2.5110	0.15	90689.2659
	Continuing Calibration Verification	Y (360.074 nm)	0.97	0.90	633561.02
	Continuing Calibration Verification	Y_R (360.074 nm)	0.97	0.90	633456.75
	Continuing Calibration Verification	Zn (213.857 nm)	0.9824	0.26	58063.2994
9/6/2024 17:14:48	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u	83.55	14.5632
	Continuing Calibration Blank	Al (237.312 nm)	0.0001 u	> 100.00	-10.8483
	Continuing Calibration Blank	As (188.980 nm)	0.0014	73.88	-1.6116
	Continuing Calibration Blank	B (249.772 nm)	0.0005	65.00	136.0966
	Continuing Calibration Blank	Ba (230.424 nm)	0.0003	23.01	29.8183
	Continuing Calibration Blank	Be (313.107 nm)	0.0000 u	> 100.00	-12.1384
	Continuing Calibration Blank	Ca (317.933 nm)	0.0034	6.14	3637.8949
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	9.4880
	Continuing Calibration Blank	Co (230.786 nm)	0.0003	79.66	6.4926
	Continuing Calibration Blank	Cr (267.716 nm)	-0.0001 u	38.93	0.6964
	Continuing Calibration Blank	Cu (327.395 nm)	0.0001 u	96.81	4.0996
	Continuing Calibration Blank	Fe (234.350 nm)	0.0071	22.58	229.9655
	Continuing Calibration Blank	K (766.491 nm)	0.0422	38.35	820.2205
	Continuing Calibration Blank	Mg (279.078 nm)	0.0011	> 100.00	4.8465
	Continuing Calibration Blank	Mn (257.610 nm)	0.0001	11.57	38.0854
	Continuing Calibration Blank	Mo (202.032 nm)	0.0085	11.51	96.2109

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Na (588.995 nm)	0.0208	27.60	-12630.9482
	Continuing Calibration Blank	Ni (230.299 nm)	0.0001 u	> 100.00	3.7619
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0001 u	> 100.00	-0.9758
	Continuing Calibration Blank	Sb (217.582 nm)	0.0142	6.78	37.0217
	Continuing Calibration Blank	Se (196.026 nm)	-0.0011 u	> 100.00	1.7114
	Continuing Calibration Blank	Si (252.851 nm)	0.0072	40.80	116.3822
	Continuing Calibration Blank	Sn (189.925 nm)	0.0019	35.08	9.3001
	Continuing Calibration Blank	Sr (216.596 nm)	0.0001 u	> 100.00	7.0475
	Continuing Calibration Blank	Ti (336.122 nm)	0.0112	26.28	1739.3258
	Continuing Calibration Blank	Tl (190.794 nm)	0.0009	98.53	-0.1102
	Continuing Calibration Blank	V (292.401 nm)	0.0001 u	> 100.00	13.5600
	Continuing Calibration Blank	Y (360.074 nm)	1.02	0.31	666156.74
	Continuing Calibration Blank	Y_R (360.074 nm)	1.02	0.31	666097.89
	Continuing Calibration Blank	Zn (213.857 nm)	0.0001	25.20	17.0837
9/6/2024 17:17:51	PBW-444156	Ag (328.068 nm)	0.0000 u	> 100.00	16.1684
	PBW-444156	Al (237.312 nm)	0.0003 u	> 100.00	-10.1883
	PBW-444156	As (188.980 nm)	0.0009 u	> 100.00	-2.3966
	PBW-444156	B (249.772 nm)	0.0008	13.11	147.4161
	PBW-444156	Ba (230.424 nm)	0.0001	71.45	12.4722
	PBW-444156	Be (313.107 nm)	0.0000	> 100.00	-9.7257
	PBW-444156	Ca (317.933 nm)	0.0081	2.57	3812.4918
	PBW-444156	Cd (214.439 nm)	0.0000	28.66	10.9342
	PBW-444156	Co (230.786 nm)	0.0000 u	> 100.00	2.0535
	PBW-444156	Cr (267.716 nm)	0.0001	8.64	11.4197
	PBW-444156	Cu (327.395 nm)	0.0002	14.02	8.9568
	PBW-444156	Fe (234.350 nm)	0.0061	20.70	206.7526
	PBW-444156	K (766.491 nm)	0.0165 u	> 100.00	789.2778
	PBW-444156	Mg (279.078 nm)	0.0002 u	> 100.00	1.0924
	PBW-444156	Mn (257.610 nm)	0.0001	11.71	34.0266
	PBW-444156	Mo (202.032 nm)	0.0019	27.17	26.8577
	PBW-444156	Na (588.995 nm)	0.0320	10.85	-12472.1844
	PBW-444156	Ni (230.299 nm)	0.0000 u	> 100.00	2.9989
	PBW-444156	Pb (220.353 nm)	0.0004 u	> 100.00	1.6740
	PBW-444156	Sb (217.582 nm)	0.0098	6.82	26.9342
	PBW-444156	Se (196.026 nm)	0.0005 u	> 100.00	2.9092
	PBW-444156	Si (252.851 nm)	0.0148	10.10	164.2151
	PBW-444156	Sn (189.925 nm)	0.0015	48.70	8.2700
	PBW-444156	Sr (216.596 nm)	0.0001	58.82	6.8891
	PBW-444156	Ti (336.122 nm)	0.0045	38.68	740.8078
	PBW-444156	Tl (190.794 nm)	-0.0009 u	> 100.00	-1.6962
	PBW-444156	V (292.401 nm)	0.0000 u	> 100.00	8.8680
	PBW-444156	Y (360.074 nm)	1.02	0.63	670314.95
	PBW-444156	Y_R (360.074 nm)	1.02	0.63	670240.56
	PBW-444156	Zn (213.857 nm)	0.0004	19.84	34.2578
9/6/2024 17:20:55	LCSW-444156	Ag (328.068 nm)	0.0490	0.10	2910.7186
	LCSW-444156	Al (237.312 nm)	1.9479	0.31	5037.7412
	LCSW-444156	As (188.980 nm)	0.0372	5.81	56.9026
	LCSW-444156	B (249.772 nm)	0.8992	0.08	38036.9865
	LCSW-444156	Ba (230.424 nm)	1.9002	0.12	117163.5267
	LCSW-444156	Be (313.107 nm)	0.0487	0.07	57043.6340
	LCSW-444156	Ca (317.933 nm)	1.9714	0.10	76736.1484
	LCSW-444156	Cd (214.439 nm)	0.0501	0.43	3011.8684
	LCSW-444156	Co (230.786 nm)	0.4926	0.14	9947.6582
	LCSW-444156	Cr (267.716 nm)	0.1976	0.14	11309.2271
	LCSW-444156	Cu (327.395 nm)	0.2513	0.12	11330.8509
	LCSW-444156	Fe (234.350 nm)	0.9836	0.13	22091.5934
	LCSW-444156	K (766.491 nm)	19.1876	0.36	23843.5744

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	LCSW-444156	Mg (279.078 nm)	1.9277	0.06	7678.9729
	LCSW-444156	Mn (257.610 nm)	0.4773	0.08	163208.7323
	LCSW-444156	Mo (202.032 nm)	0.4638	1.68	4943.9591
	LCSW-444156	Na (588.995 nm)	19.4259	0.49	263248.2183
	LCSW-444156	Ni (230.299 nm)	0.4829	0.06	6201.3115
	LCSW-444156	Pb (220.353 nm)	0.5068	0.30	2521.3877
	LCSW-444156	Sb (217.582 nm)	0.4838	1.32	1121.4342
	LCSW-444156	Se (196.026 nm)	0.9707	0.58	718.0242
	LCSW-444156	Si (252.851 nm)	0.3179	0.55	2077.1351
	LCSW-444156	Sn (189.925 nm)	4.8984	0.01	12628.8552
	LCSW-444156	Sr (216.596 nm)	2.0031	0.08	37619.8660
	LCSW-444156	Ti (336.122 nm)	0.4891	0.10	72772.2517
	LCSW-444156	Tl (190.794 nm)	1.9466	0.10	1755.2436
	LCSW-444156	V (292.401 nm)	0.4866	0.08	17583.0265
	LCSW-444156	Y (360.074 nm)	1.00	0.73	655513.14
	LCSW-444156	Y_R (360.074 nm)	1.00	0.73	655392.26
	LCSW-444156	Zn (213.857 nm)	0.4993	0.09	29517.4933
9/6/2024 17:23:59	R2408139-003 3X	Ag (328.068 nm)	0.0004	53.15	41.2166
	R2408139-003 3X	Al (237.312 nm)	0.0317	30.76	71.2752
	R2408139-003 3X	As (188.980 nm)	0.0063	29.87	6.4116
	R2408139-003 3X	B (249.772 nm)	0.0268	5.64	1242.0777
	R2408139-003 3X	Ba (230.424 nm)	0.1113	5.45	6868.7044
	R2408139-003 3X	Be (313.107 nm)	0.0000	56.67	-7.8834
	R2408139-003 3X	Ca (317.933 nm)	14.6503	5.40	547670.5767
	R2408139-003 3X	Cd (214.439 nm)	0.0001	52.54	14.2693
	R2408139-003 3X	Co (230.786 nm)	0.0125	5.07	252.8718
	R2408139-003 3X	Cr (267.716 nm)	0.0008	10.53	48.8960
	R2408139-003 3X	Cu (327.395 nm)	0.0008	6.22	36.8880
	R2408139-003 3X	Fe (234.350 nm)	2.8497	5.19	63871.4201
	R2408139-003 3X	K (766.491 nm)	1.1500	8.50	2152.3000
	R2408139-003 3X	Mg (279.078 nm)	1.8255	5.46	7272.1826
	R2408139-003 3X	Mn (257.610 nm)	6.6110 o	5.26	2260537.1357
	R2408139-003 3X	Mo (202.032 nm)	0.0068	8.58	78.1919
	R2408139-003 3X	Na (588.995 nm)	3.4749	5.33	36475.2965
	R2408139-003 3X	Ni (230.299 nm)	0.0079	8.86	104.0704
	R2408139-003 3X	Pb (220.353 nm)	0.0021	2.46	9.9192
	R2408139-003 3X	Sb (217.582 nm)	0.0053	27.15	16.6601
	R2408139-003 3X	Se (196.026 nm)	0.0042	49.86	5.6138
	R2408139-003 3X	Si (252.851 nm)	1.0370	5.51	6614.9989
	R2408139-003 3X	Sn (189.925 nm)	0.0036	11.03	13.4953
	R2408139-003 3X	Sr (216.596 nm)	0.0447	4.98	844.6482
	R2408139-003 3X	Ti (336.122 nm)	0.0044	29.75	732.7624
	R2408139-003 3X	Tl (190.794 nm)	0.0016	35.36	0.5564
	R2408139-003 3X	V (292.401 nm)	0.0003	58.82	19.7635
	R2408139-003 3X	Y (360.074 nm)	1.00	2.70	653537.35
	R2408139-003 3X	Y_R (360.074 nm)	1.00	2.70	653461.93
	R2408139-003 3X	Zn (213.857 nm)	0.0057	5.15	344.8090
9/6/2024 17:27:03	R2408139-004 3X	Ag (328.068 nm)	0.0004	25.35	40.1153
	R2408139-004 3X	Al (237.312 nm)	0.0063	30.07	5.2548
	R2408139-004 3X	As (188.980 nm)	0.0039	25.28	2.4103
	R2408139-004 3X	B (249.772 nm)	0.0253	5.87	1178.7967
	R2408139-004 3X	Ba (230.424 nm)	0.1059	5.68	6540.0279
	R2408139-004 3X	Be (313.107 nm)	0.0000	77.82	-8.0197
	R2408139-004 3X	Ca (317.933 nm)	14.0467	5.31	525253.5587
	R2408139-004 3X	Cd (214.439 nm)	0.0001	46.59	11.2509
	R2408139-004 3X	Co (230.786 nm)	0.0117	6.08	237.0153
	R2408139-004 3X	Cr (267.716 nm)	0.0008	13.37	51.1613

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408139-004 3X	Cu (327.395 nm)	0.0005	56.48	23.6776
	R2408139-004 3X	Fe (234.350 nm)	2.7408	5.29	61431.3840
	R2408139-004 3X	K (766.491 nm)	1.0630	5.55	2047.6770
	R2408139-004 3X	Mg (279.078 nm)	1.7445	5.65	6949.2753
	R2408139-004 3X	Mn (257.610 nm)	6.2584 o	5.55	2139973.8905
	R2408139-004 3X	Mo (202.032 nm)	0.0019	17.41	26.9318
	R2408139-004 3X	Na (588.995 nm)	3.3846	6.57	35192.0262
	R2408139-004 3X	Ni (230.299 nm)	0.0076	10.33	100.7239
	R2408139-004 3X	Pb (220.353 nm)	0.0011	73.32	4.7945
	R2408139-004 3X	Sb (217.582 nm)	0.0021	75.13	9.2585
	R2408139-004 3X	Se (196.026 nm)	0.0042	70.63	5.6011
	R2408139-004 3X	Si (252.851 nm)	0.9955	5.71	6353.3149
	R2408139-004 3X	Sn (189.925 nm)	0.0024	34.23	10.5001
	R2408139-004 3X	Sr (216.596 nm)	0.0423	5.96	799.8205
	R2408139-004 3X	Ti (336.122 nm)	0.0018	41.47	346.2014
	R2408139-004 3X	Tl (190.794 nm)	0.0000 u	> 100.00	-0.9546
	R2408139-004 3X	V (292.401 nm)	0.0005	38.42	27.9561
	R2408139-004 3X	Y (360.074 nm)	1.01	0.35	664379.13
	R2408139-004 3X	Y_R (360.074 nm)	1.01	0.35	664318.36
	R2408139-004 3X	Zn (213.857 nm)	0.0051	4.37	313.9785
9/6/2024 17:30:07	R2408139-007	Ag (328.068 nm)	0.0002	65.83	28.5774
	R2408139-007	Al (237.312 nm)	-0.0123 u	7.14	-42.7647
	R2408139-007	As (188.980 nm)	0.0118	13.78	15.3714
	R2408139-007	B (249.772 nm)	0.2099	0.07	8967.7151
	R2408139-007	Ba (230.424 nm)	0.1223	0.14	7549.4104
	R2408139-007	Be (313.107 nm)	0.0000 u	> 100.00	-15.6014
	R2408139-007	Ca (317.933 nm)	135.1823 o	0.27	5024614.0977
	R2408139-007	Cd (214.439 nm)	0.0002	34.67	21.5412
	R2408139-007	Co (230.786 nm)	0.0006	48.21	14.3681
	R2408139-007	Cr (267.716 nm)	0.0050	3.24	289.3608
	R2408139-007	Cu (327.395 nm)	0.0003	44.01	15.6382
	R2408139-007	Fe (234.350 nm)	5.9327	0.26	132893.6493
	R2408139-007	K (766.491 nm)	1.9098	1.28	3066.0004
	R2408139-007	Mg (279.078 nm)	22.1885	0.18	88385.1247
	R2408139-007	Mn (257.610 nm)	3.2923 o	0.13	1125754.7477
	R2408139-007	Mo (202.032 nm)	0.0009	33.50	16.0263
	R2408139-007	Na (588.995 nm)	50.8068	0.53	709384.3498
	R2408139-007	Ni (230.299 nm)	0.0232	1.22	300.7422
	R2408139-007	Pb (220.353 nm)	0.0013	3.72	6.0182
	R2408139-007	Sb (217.582 nm)	0.0023	20.14	9.5287
	R2408139-007	Se (196.026 nm)	0.0008 u	> 100.00	3.0964
	R2408139-007	Si (252.851 nm)	6.2995	0.17	39824.7072
	R2408139-007	Sn (189.925 nm)	0.0017	18.75	8.5836
	R2408139-007	Sr (216.596 nm)	0.1597	0.23	3005.3756
	R2408139-007	Ti (336.122 nm)	0.0014	39.71	276.6762
	R2408139-007	Tl (190.794 nm)	0.0017	18.07	0.6554
	R2408139-007	V (292.401 nm)	0.0005	10.46	28.4142
	R2408139-007	Y (360.074 nm)	0.96	0.64	629964.05
	R2408139-007	Y_R (360.074 nm)	0.96	0.64	629906.21
	R2408139-007	Zn (213.857 nm)	0.0030	2.80	189.1435
9/6/2024 17:33:11	R2408139-010 5X	Ag (328.068 nm)	0.0003	14.87	35.3557
	R2408139-010 5X	Al (237.312 nm)	-0.0369 u	4.89	-106.6728
	R2408139-010 5X	As (188.980 nm)	0.0066	24.53	6.9014
	R2408139-010 5X	B (249.772 nm)	0.0138	4.41	696.9437
	R2408139-010 5X	Ba (230.424 nm)	0.0679	3.84	4195.8798
	R2408139-010 5X	Be (313.107 nm)	0.0000	21.01	-12.3101
	R2408139-010 5X	Ca (317.933 nm)	9.0196	3.77	338530.4438

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408139-010 5X	Cd (214.439 nm)	0.0003	19.71	26.7093
	R2408139-010 5X	Co (230.786 nm)	0.0076	2.92	155.5652
	R2408139-010 5X	Cr (267.716 nm)	0.0005	11.73	34.3979
	R2408139-010 5X	Cu (327.395 nm)	0.0000 u	> 100.00	1.8795
	R2408139-010 5X	Fe (234.350 nm)	15.7542 o	3.41	352777.0870
	R2408139-010 5X	K (766.491 nm)	0.0688	51.37	852.1722
	R2408139-010 5X	Mg (279.078 nm)	1.9511	3.69	7772.3227
	R2408139-010 5X	Mn (257.610 nm)	7.6897 o	3.66	2629390.9852
	R2408139-010 5X	Mo (202.032 nm)	0.0011	20.13	17.5330
	R2408139-010 5X	Na (588.995 nm)	0.3161	1.81	-8432.7914
	R2408139-010 5X	Ni (230.299 nm)	0.0028	7.29	39.5924
	R2408139-010 5X	Pb (220.353 nm)	0.0010	62.44	4.1982
	R2408139-010 5X	Sb (217.582 nm)	-0.0001 u	> 100.00	4.1919
	R2408139-010 5X	Se (196.026 nm)	0.0049	39.02	6.1305
	R2408139-010 5X	Si (252.851 nm)	0.7927	3.60	5073.4767
	R2408139-010 5X	Sn (189.925 nm)	0.0004	52.68	5.2479
	R2408139-010 5X	Sr (216.596 nm)	0.0238	4.07	452.0105
	R2408139-010 5X	Ti (336.122 nm)	0.0007	52.61	169.6906
	R2408139-010 5X	Tl (190.794 nm)	0.0013 u	> 100.00	0.2866
	R2408139-010 5X	V (292.401 nm)	-0.0003 u	23.46	-0.8653
	R2408139-010 5X	Y (360.074 nm)	1.00	1.62	658558.78
	R2408139-010 5X	Y_R (360.074 nm)	1.00	1.62	658543.10
	R2408139-010 5X	Zn (213.857 nm)	0.0031	3.62	195.1242
9/6/2024 17:36:14	R2408139-012 5X	Ag (328.068 nm)	0.0002	54.51	31.2210
	R2408139-012 5X	Al (237.312 nm)	0.0244	7.28	52.1592
	R2408139-012 5X	As (188.980 nm)	0.0120	19.39	15.7096
	R2408139-012 5X	B (249.772 nm)	0.0294	2.95	1354.8267
	R2408139-012 5X	Ba (230.424 nm)	0.0223	3.32	1381.9784
	R2408139-012 5X	Be (313.107 nm)	0.0000 u	> 100.00	-15.2316
	R2408139-012 5X	Ca (317.933 nm)	40.5332	2.96	1509045.4741
	R2408139-012 5X	Cd (214.439 nm)	0.0003	16.28	27.4720
	R2408139-012 5X	Co (230.786 nm)	0.0002	53.18	5.2917
	R2408139-012 5X	Cr (267.716 nm)	0.0004	8.80	26.0528
	R2408139-012 5X	Cu (327.395 nm)	0.0001	60.63	5.9518
	R2408139-012 5X	Fe (234.350 nm)	18.9964 o	2.65	425363.6097
	R2408139-012 5X	K (766.491 nm)	0.2946	4.21	1123.6486
	R2408139-012 5X	Mg (279.078 nm)	7.3189	2.97	29154.3089
	R2408139-012 5X	Mn (257.610 nm)	5.2339 o	2.90	1789654.4689
	R2408139-012 5X	Mo (202.032 nm)	0.0002	92.69	8.1254
	R2408139-012 5X	Na (588.995 nm)	7.2395	3.82	89995.7545
	R2408139-012 5X	Ni (230.299 nm)	0.0051	7.25	68.7797
	R2408139-012 5X	Pb (220.353 nm)	0.0009	10.13	4.0070
	R2408139-012 5X	Sb (217.582 nm)	-0.0004 u	> 100.00	3.4477
	R2408139-012 5X	Se (196.026 nm)	0.0041 u	> 100.00	5.5101
	R2408139-012 5X	Si (252.851 nm)	1.5714	3.11	9987.2441
	R2408139-012 5X	Sn (189.925 nm)	0.0005 u	> 100.00	5.5388
	R2408139-012 5X	Sr (216.596 nm)	0.0662	3.01	1249.0730
	R2408139-012 5X	Ti (336.122 nm)	0.0008	25.35	194.5691
	R2408139-012 5X	Tl (190.794 nm)	0.0017	18.49	0.6197
	R2408139-012 5X	V (292.401 nm)	0.0003	38.24	19.2766
	R2408139-012 5X	Y (360.074 nm)	1.00	0.50	654076.58
	R2408139-012 5X	Y_R (360.074 nm)	1.00	0.50	654036.04
	R2408139-012 5X	Zn (213.857 nm)	0.0025	2.11	159.2108
9/6/2024 17:39:18	R2408364-004 10X	Ag (328.068 nm)	0.0000 u	> 100.00	19.7079
	R2408364-004 10X	Al (237.312 nm)	0.0318	3.67	71.3979
	R2408364-004 10X	As (188.980 nm)	0.0018	51.20	-1.0055
	R2408364-004 10X	B (249.772 nm)	0.0046	4.93	307.9210

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408364-004 10X	Ba (230.424 nm)	0.0057	5.52	358.4953
	R2408364-004 10X	Be (313.107 nm)	0.0000 u	> 100.00	-14.1798
	R2408364-004 10X	Ca (317.933 nm)	31.1119	4.22	1159108.6765
	R2408364-004 10X	Cd (214.439 nm)	0.0000 u	> 100.00	9.8892
	R2408364-004 10X	Co (230.786 nm)	0.0004	26.80	8.9120
	R2408364-004 10X	Cr (267.716 nm)	0.0001	73.83	12.9116
	R2408364-004 10X	Cu (327.395 nm)	0.0002	75.47	8.8293
	R2408364-004 10X	Fe (234.350 nm)	0.1240	0.78	2846.6023
	R2408364-004 10X	K (766.491 nm)	0.3386	14.50	1176.6538
	R2408364-004 10X	Mg (279.078 nm)	11.7445	4.25	46782.7229
	R2408364-004 10X	Mn (257.610 nm)	0.0343	4.28	11745.6234
	R2408364-004 10X	Mo (202.032 nm)	0.0001 u	> 100.00	7.2275
	R2408364-004 10X	Na (588.995 nm)	2.1994	4.65	18342.1964
	R2408364-004 10X	Ni (230.299 nm)	0.0028	1.05	39.5413
	R2408364-004 10X	Pb (220.353 nm)	0.0007	69.59	2.7383
	R2408364-004 10X	Sb (217.582 nm)	0.0010	> 100.00	6.5464
	R2408364-004 10X	Se (196.026 nm)	0.0015	80.03	3.6439
	R2408364-004 10X	Si (252.851 nm)	0.7176	4.13	4599.3651
	R2408364-004 10X	Sn (189.925 nm)	0.0006	92.37	5.8511
	R2408364-004 10X	Sr (216.596 nm)	0.3362	4.29	6318.3578
	R2408364-004 10X	Ti (336.122 nm)	0.0008	35.75	191.9324
	R2408364-004 10X	Tl (190.794 nm)	-0.0003 u	> 100.00	-1.1692
	R2408364-004 10X	V (292.401 nm)	0.0000 u	> 100.00	10.5144
	R2408364-004 10X	Y (360.074 nm)	1.01	0.53	659256.78
	R2408364-004 10X	Y_R (360.074 nm)	1.01	0.53	659242.39
	R2408364-004 10X	Zn (213.857 nm)	0.0019	2.70	122.6425
9/6/2024 17:42:22	R2408364-007 10X	Ag (328.068 nm)	0.0000 u	> 100.00	19.4866
	R2408364-007 10X	Al (237.312 nm)	0.0391	5.64	90.4255
	R2408364-007 10X	As (188.980 nm)	0.0020	64.17	-0.5585
	R2408364-007 10X	B (249.772 nm)	0.0061	3.64	370.7168
	R2408364-007 10X	Ba (230.424 nm)	0.0018	5.43	120.4043
	R2408364-007 10X	Be (313.107 nm)	0.0000	9.68	-5.6942
	R2408364-007 10X	Ca (317.933 nm)	29.5983	2.37	1102887.6992
	R2408364-007 10X	Cd (214.439 nm)	0.0000 u	57.97	6.9411
	R2408364-007 10X	Co (230.786 nm)	-0.0001 u	36.72	-0.6132
	R2408364-007 10X	Cr (267.716 nm)	0.0001	26.82	12.3373
	R2408364-007 10X	Cu (327.395 nm)	0.0001	60.04	2.6630
	R2408364-007 10X	Fe (234.350 nm)	0.1087	1.43	2504.3622
	R2408364-007 10X	K (766.491 nm)	0.2039	10.24	1014.6170
	R2408364-007 10X	Mg (279.078 nm)	9.8592	2.38	39272.8962
	R2408364-007 10X	Mn (257.610 nm)	0.0146	2.50	5002.2487
	R2408364-007 10X	Mo (202.032 nm)	0.0003	69.96	9.4690
	R2408364-007 10X	Na (588.995 nm)	1.1223	1.10	3028.8900
	R2408364-007 10X	Ni (230.299 nm)	0.0022	29.19	31.9554
	R2408364-007 10X	Pb (220.353 nm)	0.0002 u	> 100.00	0.4572
	R2408364-007 10X	Sb (217.582 nm)	0.0006	39.23	5.7251
	R2408364-007 10X	Se (196.026 nm)	-0.0010 u	> 100.00	1.8002
	R2408364-007 10X	Si (252.851 nm)	0.7293	2.64	4673.2321
	R2408364-007 10X	Sn (189.925 nm)	-0.0002 u	> 100.00	3.9027
	R2408364-007 10X	Sr (216.596 nm)	0.1849	2.78	3477.9861
	R2408364-007 10X	Ti (336.122 nm)	0.0013	26.80	263.0881
	R2408364-007 10X	Tl (190.794 nm)	0.0009	88.97	-0.1285
	R2408364-007 10X	V (292.401 nm)	0.0001 u	> 100.00	14.4623
	R2408364-007 10X	Y (360.074 nm)	0.99	2.34	650255.53
	R2408364-007 10X	Y_R (360.074 nm)	0.99	2.34	650260.11
	R2408364-007 10X	Zn (213.857 nm)	0.0018	6.93	113.8787
9/6/2024 17:45:26	R2408364-007L 50X	Ag (328.068 nm)	0.0000 u	> 100.00	18.7466

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408364-007L 50X	Al (237.312 nm)	0.0075	12.47	8.4773
	R2408364-007L 50X	As (188.980 nm)	0.0002 u	> 100.00	-3.5901
	R2408364-007L 50X	B (249.772 nm)	0.0001	46.54	118.5431
	R2408364-007L 50X	Ba (230.424 nm)	0.0003	17.55	27.0831
	R2408364-007L 50X	Be (313.107 nm)	0.0000	9.66	-12.5678
	R2408364-007L 50X	Ca (317.933 nm)	5.8020	0.13	219019.0132
	R2408364-007L 50X	Cd (214.439 nm)	0.0000 u	> 100.00	6.7443
	R2408364-007L 50X	Co (230.786 nm)	0.0001 u	> 100.00	2.4052
	R2408364-007L 50X	Cr (267.716 nm)	0.0000 u	> 100.00	4.5983
	R2408364-007L 50X	Cu (327.395 nm)	0.0000 u	> 100.00	0.8218
	R2408364-007L 50X	Fe (234.350 nm)	0.0231	4.85	587.2203
	R2408364-007L 50X	K (766.491 nm)	-0.0026 u	> 100.00	766.2789
	R2408364-007L 50X	Mg (279.078 nm)	1.9212	0.13	7653.0743
	R2408364-007L 50X	Mn (257.610 nm)	0.0029	0.46	1010.3205
	R2408364-007L 50X	Mo (202.032 nm)	0.0000 u	> 100.00	6.5489
	R2408364-007L 50X	Na (588.995 nm)	0.2187	0.79	-9817.3578
	R2408364-007L 50X	Ni (230.299 nm)	0.0004	31.54	8.5621
	R2408364-007L 50X	Pb (220.353 nm)	0.0004 u	> 100.00	1.2666
	R2408364-007L 50X	Sb (217.582 nm)	0.0013	> 100.00	7.4070
	R2408364-007L 50X	Se (196.026 nm)	-0.0004 u	> 100.00	2.2501
	R2408364-007L 50X	Si (252.851 nm)	0.1407	1.00	958.8660
	R2408364-007L 50X	Sn (189.925 nm)	0.0004	> 100.00	5.2697
	R2408364-007L 50X	Sr (216.596 nm)	0.0359	0.48	679.0566
	R2408364-007L 50X	Ti (336.122 nm)	0.0004	63.77	136.5315
	R2408364-007L 50X	Tl (190.794 nm)	-0.0003 u	54.78	-1.2279
	R2408364-007L 50X	V (292.401 nm)	0.0001 u	> 100.00	12.7771
	R2408364-007L 50X	Y (360.074 nm)	1.02	0.45	669933.73
	R2408364-007L 50X	Y_R (360.074 nm)	1.02	0.45	669907.53
	R2408364-007L 50X	Zn (213.857 nm)	0.0003	17.75	27.9433
9/6/2024 17:48:30	Continuing Calibration Verification	Ag (328.068 nm)	0.4973	0.08	29411.6733
	Continuing Calibration Verification	Al (237.312 nm)	9.6420	0.32	24980.1083
	Continuing Calibration Verification	As (188.980 nm)	0.9601	0.73	1563.9400
	Continuing Calibration Verification	B (249.772 nm)	2.2220 Q	0.18	93829.6973 Q
	Continuing Calibration Verification	Ba (230.424 nm)	9.4679	0.48	583747.9661
	Continuing Calibration Verification	Be (313.107 nm)	0.2441	0.18	285780.5224
	Continuing Calibration Verification	Ca (317.933 nm)	24.9623	0.26	930693.7123
	Continuing Calibration Verification	Cd (214.439 nm)	0.4911	0.20	29442.2042
	Continuing Calibration Verification	Co (230.786 nm)	2.4414	0.37	49295.7444
	Continuing Calibration Verification	Cr (267.716 nm)	0.5003	0.26	28622.7395
	Continuing Calibration Verification	Cu (327.395 nm)	1.2184	0.66	54947.3954
	Continuing Calibration Verification	Fe (234.350 nm)	4.8624	0.38	108931.8248
	Continuing Calibration Verification	K (766.491 nm)	24.5395	0.09	30279.5300
	Continuing Calibration Verification	Mg (279.078 nm)	25.0102	0.29	99624.6630
	Continuing Calibration Verification	Mn (257.610 nm)	0.7229	0.21	247188.6304
	Continuing Calibration Verification	Mo (202.032 nm)	2.4956	1.16	26575.4421
	Continuing Calibration Verification	Na (588.995 nm)	24.7969	0.56	339605.9747
	Continuing Calibration Verification	Ni (230.299 nm)	1.9545	0.34	25091.9116
	Continuing Calibration Verification	Pb (220.353 nm)	0.4919	0.34	2447.6020
	Continuing Calibration Verification	Sb (217.582 nm)	4.8331	0.11	11164.5558
	Continuing Calibration Verification	Se (196.026 nm)	0.4709	0.13	349.6403
	Continuing Calibration Verification	Si (252.851 nm)	9.5062	0.77	60061.3062
	Continuing Calibration Verification	Sn (189.925 nm)	4.9640	0.33	12797.9397
	Continuing Calibration Verification	Sr (216.596 nm)	2.4632	0.33	46259.6300
	Continuing Calibration Verification	Ti (336.122 nm)	2.5168	0.24	374195.2873
	Continuing Calibration Verification	Tl (190.794 nm)	0.9778	0.63	881.2207
	Continuing Calibration Verification	V (292.401 nm)	2.4891	0.16	89897.6675
	Continuing Calibration Verification	Y (360.074 nm)	0.97	0.72	636774.00

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	Y_R (360.074 nm)	0.97	0.73	636723.73
	Continuing Calibration Verification	Zn (213.857 nm)	0.9758	0.36	57672.8560
9/6/2024 17:51:34	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u	> 100.00	17.3035
	Continuing Calibration Blank	Al (237.312 nm)	0.0015	9.60	-7.0160
	Continuing Calibration Blank	As (188.980 nm)	0.0037	49.16	2.1496
	Continuing Calibration Blank	B (249.772 nm)	0.0003	80.47	124.3194
	Continuing Calibration Blank	Ba (230.424 nm)	0.0005	10.08	42.0632
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	55.82	-2.1702
	Continuing Calibration Blank	Ca (317.933 nm)	0.0031	3.16	3627.1401
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	5.8279
	Continuing Calibration Blank	Co (230.786 nm)	0.0002 u	> 100.00	4.5672
	Continuing Calibration Blank	Cr (267.716 nm)	0.0000	> 100.00	7.4370
	Continuing Calibration Blank	Cu (327.395 nm)	0.0000 u	> 100.00	0.2578
	Continuing Calibration Blank	Fe (234.350 nm)	0.0072	24.48	231.9373
	Continuing Calibration Blank	K (766.491 nm)	0.0150 u	94.15	787.4045
	Continuing Calibration Blank	Mg (279.078 nm)	0.0012	11.23	5.1333
	Continuing Calibration Blank	Mn (257.610 nm)	0.0001	3.29	42.5038
	Continuing Calibration Blank	Mo (202.032 nm)	0.0084	12.42	95.6686
	Continuing Calibration Blank	Na (588.995 nm)	-0.0005 u	> 100.00	-12933.3726
	Continuing Calibration Blank	Ni (230.299 nm)	0.0001 u	> 100.00	3.9345
	Continuing Calibration Blank	Pb (220.353 nm)	0.0002 u	> 100.00	0.3202
	Continuing Calibration Blank	Sb (217.582 nm)	0.0120	6.62	32.0121
	Continuing Calibration Blank	Se (196.026 nm)	0.0014 u	> 100.00	3.5244
	Continuing Calibration Blank	Si (252.851 nm)	0.0070	40.66	115.2463
	Continuing Calibration Blank	Sn (189.925 nm)	0.0016	2.16	8.5555
	Continuing Calibration Blank	Sr (216.596 nm)	0.0000 u	> 100.00	6.3571
	Continuing Calibration Blank	Ti (336.122 nm)	0.0104	26.91	1615.7365
	Continuing Calibration Blank	Tl (190.794 nm)	0.0006 u	> 100.00	-0.4162
	Continuing Calibration Blank	V (292.401 nm)	0.0002	67.47	16.3343
	Continuing Calibration Blank	Y (360.074 nm)	1.02	0.74	666089.51
	Continuing Calibration Blank	Y_R (360.074 nm)	1.02	0.74	666072.03
	Continuing Calibration Blank	Zn (213.857 nm)	0.0001	25.33	17.4273
9/6/2024 17:54:38	PBW-444157	Ag (328.068 nm)	0.0000 u	> 100.00	16.9565
	PBW-444157	Al (237.312 nm)	0.0010 u	> 100.00	-8.4945
	PBW-444157	As (188.980 nm)	0.0008 u	> 100.00	-2.5704
	PBW-444157	B (249.772 nm)	0.0004	19.25	130.4704
	PBW-444157	Ba (230.424 nm)	0.0001 u	> 100.00	11.7073
	PBW-444157	Be (313.107 nm)	0.0000	29.06	-11.1346
	PBW-444157	Ca (317.933 nm)	0.0088	4.88	3838.4180
	PBW-444157	Cd (214.439 nm)	0.0001	49.54	11.5924
	PBW-444157	Co (230.786 nm)	-0.0001 u	16.05	-1.6142
	PBW-444157	Cr (267.716 nm)	0.0002	42.39	14.8059
	PBW-444157	Cu (327.395 nm)	0.0001	94.20	3.1498
	PBW-444157	Fe (234.350 nm)	0.0061	23.75	208.3378
	PBW-444157	K (766.491 nm)	-0.0179 u	> 100.00	747.8706
	PBW-444157	Mg (279.078 nm)	0.0012	37.54	5.1396
	PBW-444157	Mn (257.610 nm)	0.0001	14.47	30.0389
	PBW-444157	Mo (202.032 nm)	0.0017	15.95	24.6761
	PBW-444157	Na (588.995 nm)	0.0171	47.89	-12683.9243
	PBW-444157	Ni (230.299 nm)	0.0002	> 100.00	5.1388
	PBW-444157	Pb (220.353 nm)	0.0005	90.69	1.9103
	PBW-444157	Sb (217.582 nm)	0.0099	19.81	27.1316
	PBW-444157	Se (196.026 nm)	0.0020 u	98.17	3.9753
	PBW-444157	Si (252.851 nm)	0.0128	24.66	151.8457
	PBW-444157	Sn (189.925 nm)	0.0008	41.37	6.3276
	PBW-444157	Sr (216.596 nm)	0.0002	66.09	8.8000
	PBW-444157	Ti (336.122 nm)	0.0038	36.41	641.7379

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	PBW-444157	Tl (190.794 nm)	0.0007 u	> 100.00	-0.3310
	PBW-444157	V (292.401 nm)	0.0001	73.43	13.3026
	PBW-444157	Y (360.074 nm)	1.03	0.53	672720.78
	PBW-444157	Y_R (360.074 nm)	1.03	0.53	672728.67
	PBW-444157	Zn (213.857 nm)	0.0001	35.54	15.2486
9/6/2024 17:57:43	LCSW-444157	Ag (328.068 nm)	0.0486	0.27	2888.8993
	LCSW-444157	Al (237.312 nm)	1.9279	0.23	4986.0168
	LCSW-444157	As (188.980 nm)	0.0365	4.28	55.7660
	LCSW-444157	B (249.772 nm)	0.8907	0.09	37680.2342
	LCSW-444157	Ba (230.424 nm)	1.8936	0.47	116758.7885
	LCSW-444157	Be (313.107 nm)	0.0483	0.11	56511.7424
	LCSW-444157	Ca (317.933 nm)	1.9573	0.16	76213.7634
	LCSW-444157	Cd (214.439 nm)	0.0498	0.26	2994.0376
	LCSW-444157	Co (230.786 nm)	0.4887	0.16	9869.4159
	LCSW-444157	Cr (267.716 nm)	0.1962	0.14	11226.4440
	LCSW-444157	Cu (327.395 nm)	0.2481	0.10	11187.6831
	LCSW-444157	Fe (234.350 nm)	0.9768	0.26	21939.4606
	LCSW-444157	K (766.491 nm)	18.9138	0.25	23514.2750
	LCSW-444157	Mg (279.078 nm)	1.9142	0.13	7625.1339
	LCSW-444157	Mn (257.610 nm)	0.4739	0.14	162038.5483
	LCSW-444157	Mo (202.032 nm)	0.4595	2.04	4897.7983
	LCSW-444157	Na (588.995 nm)	19.1891	0.54	259881.4353
	LCSW-444157	Ni (230.299 nm)	0.4808	0.03	6174.4565
	LCSW-444157	Pb (220.353 nm)	0.5032	0.17	2503.8877
	LCSW-444157	Sb (217.582 nm)	0.4759	1.25	1103.2924
	LCSW-444157	Se (196.026 nm)	0.9512	0.75	703.6830
	LCSW-444157	Si (252.851 nm)	0.3124	0.64	2042.2987
	LCSW-444157	Sn (189.925 nm)	4.8603	0.15	12530.6110
	LCSW-444157	Sr (216.596 nm)	1.9784	0.24	37155.2609
	LCSW-444157	Ti (336.122 nm)	0.4850	0.05	72169.1465
	LCSW-444157	Tl (190.794 nm)	1.9394	0.24	1748.7317
	LCSW-444157	V (292.401 nm)	0.4828	0.13	17446.1349
	LCSW-444157	Y (360.074 nm)	1.00	0.49	658341.29
	LCSW-444157	Y_R (360.074 nm)	1.00	0.49	658335.08
	LCSW-444157	Zn (213.857 nm)	0.4953	0.12	29280.8064
9/6/2024 18:00:47	DLCSW-444157	Ag (328.068 nm)	0.0486	0.60	2892.7462
	DLCSW-444157	Al (237.312 nm)	1.9330	0.53	4999.0992
	DLCSW-444157	As (188.980 nm)	0.0374	5.62	57.1314
	DLCSW-444157	B (249.772 nm)	0.8950	0.85	37859.3191
	DLCSW-444157	Ba (230.424 nm)	1.8980	0.85	117028.5744
	DLCSW-444157	Be (313.107 nm)	0.0485	1.00	56781.9858
	DLCSW-444157	Ca (317.933 nm)	1.9666	1.00	76559.5010
	DLCSW-444157	Cd (214.439 nm)	0.0499	1.21	2997.6397
	DLCSW-444157	Co (230.786 nm)	0.4911	0.87	9916.1893
	DLCSW-444157	Cr (267.716 nm)	0.1971	0.95	11278.9084
	DLCSW-444157	Cu (327.395 nm)	0.2494	0.80	11248.5316
	DLCSW-444157	Fe (234.350 nm)	0.9856	1.16	22135.8216
	DLCSW-444157	K (766.491 nm)	19.0311	0.59	23655.3989
	DLCSW-444157	Mg (279.078 nm)	1.9210	1.09	7652.3288
	DLCSW-444157	Mn (257.610 nm)	0.4761	0.97	162800.7008
	DLCSW-444157	Mo (202.032 nm)	0.4672	2.95	4980.2662
	DLCSW-444157	Na (588.995 nm)	19.2647	0.49	260955.7825
	DLCSW-444157	Ni (230.299 nm)	0.4832	1.12	6205.5391
	DLCSW-444157	Pb (220.353 nm)	0.5063	1.04	2518.8897
	DLCSW-444157	Sb (217.582 nm)	0.4786	0.49	1109.5696
	DLCSW-444157	Se (196.026 nm)	0.9632	0.96	712.5249
	DLCSW-444157	Si (252.851 nm)	0.3135	1.29	2049.1288

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	DLCSW-444157	Sn (189.925 nm)	4.8983	1.04	12628.6128
	DLCSW-444157	Sr (216.596 nm)	1.9900	1.07	37374.6596
	DLCSW-444157	Ti (336.122 nm)	0.4895	0.99	72832.0007
	DLCSW-444157	Tl (190.794 nm)	1.9529	0.78	1760.9439
	DLCSW-444157	V (292.401 nm)	0.4850	0.95	17523.1126
	DLCSW-444157	Y (360.074 nm)	1.00	0.32	656397.59
	DLCSW-444157	Y_R (360.074 nm)	1.00	0.32	656400.07
	DLCSW-444157	Zn (213.857 nm)	0.4975	0.93	29408.6105
9/6/2024 18:03:51	R2408385-018 3X	Ag (328.068 nm)	0.0003	23.93	36.1693
	R2408385-018 3X	Al (237.312 nm)	-0.0100 u	14.80	-36.8615
	R2408385-018 3X	As (188.980 nm)	0.0027	63.02	0.5776
	R2408385-018 3X	B (249.772 nm)	0.1195	0.70	5155.0967
	R2408385-018 3X	Ba (230.424 nm)	0.0044	3.08	278.4168
	R2408385-018 3X	Be (313.107 nm)	0.0000 u	> 100.00	-11.7642
	R2408385-018 3X	Ca (317.933 nm)	78.8726 o	0.30	2933092.4410
	R2408385-018 3X	Cd (214.439 nm)	0.0086	1.39	522.4604
	R2408385-018 3X	Co (230.786 nm)	0.0020	14.16	40.9345
	R2408385-018 3X	Cr (267.716 nm)	0.0003	53.57	19.9494
	R2408385-018 3X	Cu (327.395 nm)	0.0000 u	> 100.00	-0.1643
	R2408385-018 3X	Fe (234.350 nm)	0.0625	1.29	1471.4296
	R2408385-018 3X	K (766.491 nm)	9.6416	0.32	12364.0053
	R2408385-018 3X	Mg (279.078 nm)	19.2172	0.40	76549.3329
	R2408385-018 3X	Mn (257.610 nm)	2.0023 o	0.35	684653.0215
	R2408385-018 3X	Mo (202.032 nm)	0.0064	17.40	73.9912
	R2408385-018 3X	Na (588.995 nm)	232.9019 o	0.97	3298194.7485
	R2408385-018 3X	Ni (230.299 nm)	0.0084	1.42	111.2156
	R2408385-018 3X	Pb (220.353 nm)	0.0014	55.55	6.4820
	R2408385-018 3X	Sb (217.582 nm)	0.0055	3.83	16.9845
	R2408385-018 3X	Se (196.026 nm)	0.0051	19.18	6.3039
	R2408385-018 3X	Si (252.851 nm)	0.8836	0.31	5647.3403
	R2408385-018 3X	Sn (189.925 nm)	0.0038	22.34	14.1530
	R2408385-018 3X	Sr (216.596 nm)	0.2997	0.28	5634.1516
	R2408385-018 3X	Ti (336.122 nm)	0.0036	35.52	601.4090
	R2408385-018 3X	Tl (190.794 nm)	0.0004 u	> 100.00	-0.5778
	R2408385-018 3X	V (292.401 nm)	0.0002	71.88	17.8815
	R2408385-018 3X	Y (360.074 nm)	0.94	0.37	616321.52
	R2408385-018 3X	Y_R (360.074 nm)	0.94	0.37	616292.54
	R2408385-018 3X	Zn (213.857 nm)	0.0023	1.27	147.5166
9/6/2024 18:06:55	R2408385-019 5X	Ag (328.068 nm)	0.0005	26.23	45.7713
	R2408385-019 5X	Al (237.312 nm)	-0.0224 u	5.22	-69.1738
	R2408385-019 5X	As (188.980 nm)	0.0001 u	> 100.00	-3.6911
	R2408385-019 5X	B (249.772 nm)	0.1161	0.21	5010.6930
	R2408385-019 5X	Ba (230.424 nm)	0.0022	3.47	141.0509
	R2408385-019 5X	Be (313.107 nm)	0.0000 u	> 100.00	-16.4864
	R2408385-019 5X	Ca (317.933 nm)	76.6227 o	0.22	2849524.6891
	R2408385-019 5X	Cd (214.439 nm)	0.0125	0.39	758.9099
	R2408385-019 5X	Co (230.786 nm)	0.0047	2.08	97.1461
	R2408385-019 5X	Cr (267.716 nm)	0.0005	40.17	34.7915
	R2408385-019 5X	Cu (327.395 nm)	0.0001	> 100.00	5.8548
	R2408385-019 5X	Fe (234.350 nm)	0.0056	6.04	195.3614
	R2408385-019 5X	K (766.491 nm)	5.1731	1.38	6990.3213
	R2408385-019 5X	Mg (279.078 nm)	28.7871	0.20	114669.6132
	R2408385-019 5X	Mn (257.610 nm)	4.7913 o	0.17	1638310.1612
	R2408385-019 5X	Mo (202.032 nm)	0.0017	34.66	24.2850
	R2408385-019 5X	Na (588.995 nm)	588.5034 o	1.17	8353712.6096
	R2408385-019 5X	Ni (230.299 nm)	0.0171	0.77	222.2165
	R2408385-019 5X	Pb (220.353 nm)	0.0022	48.96	10.2376

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408385-019 5X	Sb (217.582 nm)	0.0037	48.05	12.7676
	R2408385-019 5X	Se (196.026 nm)	0.0022	> 100.00	4.1433
	R2408385-019 5X	Si (252.851 nm)	0.7438	0.05	4764.8116
	R2408385-019 5X	Sn (189.925 nm)	0.0009	94.51	6.7280
	R2408385-019 5X	Sr (216.596 nm)	0.3503	0.41	6583.8886
	R2408385-019 5X	Ti (336.122 nm)	0.0013	45.34	262.1913
	R2408385-019 5X	Tl (190.794 nm)	0.0025	26.29	1.3492
	R2408385-019 5X	V (292.401 nm)	0.0002 u	> 100.00	18.2212
	R2408385-019 5X	Y (360.074 nm)	0.90	0.38	591068.42
	R2408385-019 5X	Y_R (360.074 nm)	0.90	0.38	591019.50
	R2408385-019 5X	Zn (213.857 nm)	0.0083	0.89	500.0888
9/6/2024 18:09:59	R2408385-020 5X	Ag (328.068 nm)	0.0004	46.70	41.8795
	R2408385-020 5X	Al (237.312 nm)	-0.0220 u	12.73	-67.9455
	R2408385-020 5X	As (188.980 nm)	0.0012	39.71	-1.9705
	R2408385-020 5X	B (249.772 nm)	0.1141	0.26	4925.2713
	R2408385-020 5X	Ba (230.424 nm)	0.0022	3.88	141.5965
	R2408385-020 5X	Be (313.107 nm)	0.0000 u	> 100.00	-15.9041
	R2408385-020 5X	Ca (317.933 nm)	75.6314 o	0.06	2812703.9658
	R2408385-020 5X	Cd (214.439 nm)	0.0124	0.23	750.0730
	R2408385-020 5X	Co (230.786 nm)	0.0047	6.36	96.0355
	R2408385-020 5X	Cr (267.716 nm)	0.0004	30.53	25.8700
	R2408385-020 5X	Cu (327.395 nm)	0.0001 u	> 100.00	2.6787
	R2408385-020 5X	Fe (234.350 nm)	0.0062	4.18	210.7172
	R2408385-020 5X	K (766.491 nm)	5.0836	0.38	6882.7083
	R2408385-020 5X	Mg (279.078 nm)	28.4064	0.09	113153.0023
	R2408385-020 5X	Mn (257.610 nm)	4.7477 o	0.09	1623395.3459
	R2408385-020 5X	Mo (202.032 nm)	0.0009	36.39	16.2354
	R2408385-020 5X	Na (588.995 nm)	576.6698 o	1.06	8185476.3783
	R2408385-020 5X	Ni (230.299 nm)	0.0171	0.96	222.4967
	R2408385-020 5X	Pb (220.353 nm)	0.0025	22.17	12.1416
	R2408385-020 5X	Sb (217.582 nm)	0.0031	64.45	11.5672
	R2408385-020 5X	Se (196.026 nm)	0.0018 u	> 100.00	3.8472
	R2408385-020 5X	Si (252.851 nm)	0.7329	0.27	4695.9988
	R2408385-020 5X	Sn (189.925 nm)	0.0007	67.59	6.0491
	R2408385-020 5X	Sr (216.596 nm)	0.3452	0.22	6488.0916
	R2408385-020 5X	Ti (336.122 nm)	0.0006	72.47	167.2212
	R2408385-020 5X	Tl (190.794 nm)	0.0027	49.58	1.5435
	R2408385-020 5X	V (292.401 nm)	0.0000 u	81.82	9.2065
	R2408385-020 5X	Y (360.074 nm)	0.90	0.63	592029.26
	R2408385-020 5X	Y_R (360.074 nm)	0.90	0.63	591983.65
	R2408385-020 5X	Zn (213.857 nm)	0.0087	0.35	522.5117
9/6/2024 18:13:03	R2408385-020L 25X	Ag (328.068 nm)	0.0001 u	> 100.00	21.3327
	R2408385-020L 25X	Al (237.312 nm)	-0.0047 u	29.26	-23.1597
	R2408385-020L 25X	As (188.980 nm)	0.0009	> 100.00	-2.4546
	R2408385-020L 25X	B (249.772 nm)	0.0214	2.50	1015.9326
	R2408385-020L 25X	Ba (230.424 nm)	0.0005	15.39	36.7176
	R2408385-020L 25X	Be (313.107 nm)	0.0000 u	> 100.00	-18.7502
	R2408385-020L 25X	Ca (317.933 nm)	15.3937	1.79	575282.2740
	R2408385-020L 25X	Cd (214.439 nm)	0.0025	3.03	160.2020
	R2408385-020L 25X	Co (230.786 nm)	0.0010	28.14	22.4277
	R2408385-020L 25X	Cr (267.716 nm)	0.0000 u	> 100.00	6.0697
	R2408385-020L 25X	Cu (327.395 nm)	0.0001	29.54	3.8795
	R2408385-020L 25X	Fe (234.350 nm)	0.0010	40.17	94.1510
	R2408385-020L 25X	K (766.491 nm)	0.9286	4.76	1886.1255
	R2408385-020L 25X	Mg (279.078 nm)	5.7678	1.90	22975.5874
	R2408385-020L 25X	Mn (257.610 nm)	0.9758	1.80	333669.0310
	R2408385-020L 25X	Mo (202.032 nm)	0.0002	> 100.00	8.8460

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408385-020L 25X	Na (588.995 nm)	129.0444 o	1.91	1821672.4288
	R2408385-020L 25X	Ni (230.299 nm)	0.0035	16.99	48.1656
	R2408385-020L 25X	Pb (220.353 nm)	0.0008	72.71	3.6289
	R2408385-020L 25X	Sb (217.582 nm)	0.0008 u	> 100.00	6.2564
	R2408385-020L 25X	Se (196.026 nm)	0.0014 u	> 100.00	3.5411
	R2408385-020L 25X	Si (252.851 nm)	0.1429	1.26	972.9851
	R2408385-020L 25X	Sn (189.925 nm)	0.0006	> 100.00	5.7888
	R2408385-020L 25X	Sr (216.596 nm)	0.0703	2.20	1326.4810
	R2408385-020L 25X	Ti (336.122 nm)	0.0005	52.60	141.4029
	R2408385-020L 25X	Tl (190.794 nm)	0.0014 u	> 100.00	0.3629
	R2408385-020L 25X	V (292.401 nm)	0.0001	> 100.00	14.2376
	R2408385-020L 25X	Y (360.074 nm)	0.97	1.61	634379.51
	R2408385-020L 25X	Y_R (360.074 nm)	0.97	1.61	634353.14
	R2408385-020L 25X	Zn (213.857 nm)	0.0018	2.56	114.5181
9/6/2024 18:16:07	Continuing Calibration Verification	Ag (328.068 nm)	0.4938	0.05	29203.8361
	Continuing Calibration Verification	Al (237.312 nm)	9.5727	0.09	24800.5209
	Continuing Calibration Verification	As (188.980 nm)	0.9572	0.25	1559.2334
	Continuing Calibration Verification	B (249.772 nm)	2.2059 Q	0.12	93149.5649 Q
	Continuing Calibration Verification	Ba (230.424 nm)	9.3791	0.45	578272.8985
	Continuing Calibration Verification	Be (313.107 nm)	0.2423	0.18	283666.3975
	Continuing Calibration Verification	Ca (317.933 nm)	24.7858	0.26	924136.2063
	Continuing Calibration Verification	Cd (214.439 nm)	0.4874	0.16	29216.7193
	Continuing Calibration Verification	Co (230.786 nm)	2.4225	0.17	48912.7167
	Continuing Calibration Verification	Cr (267.716 nm)	0.4965	0.29	28408.1833
	Continuing Calibration Verification	Cu (327.395 nm)	1.2135	0.17	54722.2559
	Continuing Calibration Verification	Fe (234.350 nm)	4.8133	0.35	107830.6341
	Continuing Calibration Verification	K (766.491 nm)	24.5074	0.27	30240.9031
	Continuing Calibration Verification	Mg (279.078 nm)	24.8362	0.28	98931.7104
	Continuing Calibration Verification	Mn (257.610 nm)	0.7180	0.19	245529.7540
	Continuing Calibration Verification	Mo (202.032 nm)	2.4770	1.23	26377.3251
	Continuing Calibration Verification	Na (588.995 nm)	24.6912	0.48	338103.4743
	Continuing Calibration Verification	Ni (230.299 nm)	1.9393	0.20	24897.0291
	Continuing Calibration Verification	Pb (220.353 nm)	0.4876	0.31	2426.0457
	Continuing Calibration Verification	Sb (217.582 nm)	4.7936	0.02	11073.2060
	Continuing Calibration Verification	Se (196.026 nm)	0.4731	1.43	351.2527
	Continuing Calibration Verification	Si (252.851 nm)	9.4300	0.86	59580.3169
	Continuing Calibration Verification	Sn (189.925 nm)	4.9340	0.20	12720.6047
	Continuing Calibration Verification	Sr (216.596 nm)	2.4497	0.68	46006.1268
	Continuing Calibration Verification	Ti (336.122 nm)	2.4999	0.31	371683.1330
	Continuing Calibration Verification	Tl (190.794 nm)	0.9752	0.64	878.8243
	Continuing Calibration Verification	V (292.401 nm)	2.4712	0.19	89254.3063
	Continuing Calibration Verification	Y (360.074 nm)	0.98	0.58	640125.93
	Continuing Calibration Verification	Y_R (360.074 nm)	0.98	0.58	640109.85
	Continuing Calibration Verification	Zn (213.857 nm)	0.9709	0.36	57380.1878
9/6/2024 18:19:10	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u	> 100.00	16.4604
	Continuing Calibration Blank	Al (237.312 nm)	0.0008 u	> 100.00	-8.9991
	Continuing Calibration Blank	As (188.980 nm)	0.0026	11.65	0.3655
	Continuing Calibration Blank	B (249.772 nm)	0.0002	73.90	123.0366
	Continuing Calibration Blank	Ba (230.424 nm)	0.0005	17.98	41.5914
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	41.06	-8.7345
	Continuing Calibration Blank	Ca (317.933 nm)	0.0026	6.73	3610.6429
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000	> 100.00	10.4796
	Continuing Calibration Blank	Co (230.786 nm)	0.0003	24.80	7.4409
	Continuing Calibration Blank	Cr (267.716 nm)	-0.0001 u	10.01	2.3534
	Continuing Calibration Blank	Cu (327.395 nm)	-0.0001 u	60.12	-2.5358
	Continuing Calibration Blank	Fe (234.350 nm)	0.0064	24.21	215.0712
	Continuing Calibration Blank	K (766.491 nm)	0.1004	38.63	890.0983

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Mg (279.078 nm)	0.0001 u	> 100.00	0.7810
	Continuing Calibration Blank	Mn (257.610 nm)	0.0001	18.01	42.5026
	Continuing Calibration Blank	Mo (202.032 nm)	0.0087	9.10	99.2308
	Continuing Calibration Blank	Na (588.995 nm)	0.1250	7.09	-11148.8878
	Continuing Calibration Blank	Ni (230.299 nm)	-0.0001 u	> 100.00	2.1724
	Continuing Calibration Blank	Pb (220.353 nm)	0.0008	77.94	3.4169
	Continuing Calibration Blank	Sb (217.582 nm)	0.0138	12.85	36.2766
	Continuing Calibration Blank	Se (196.026 nm)	0.0009	53.69	3.1881
	Continuing Calibration Blank	Si (252.851 nm)	0.0068	28.25	113.8278
	Continuing Calibration Blank	Sn (189.925 nm)	0.0018	28.40	8.9258
	Continuing Calibration Blank	Sr (216.596 nm)	0.0000 u	> 100.00	5.6352
	Continuing Calibration Blank	Ti (336.122 nm)	0.0102	26.31	1582.9075
	Continuing Calibration Blank	Tl (190.794 nm)	-0.0002 u	> 100.00	-1.0988
	Continuing Calibration Blank	V (292.401 nm)	0.0000 u	> 100.00	11.2282
	Continuing Calibration Blank	Y (360.074 nm)	1.02	0.50	671531.94
	Continuing Calibration Blank	Y_R (360.074 nm)	1.02	0.51	671560.17
	Continuing Calibration Blank	Zn (213.857 nm)	0.0001	45.89	17.6451
9/6/2024 18:22:14	PBW-444182	Ag (328.068 nm)	0.0000 u	79.75	15.6940
	PBW-444182	Al (237.312 nm)	0.0018	60.25	-6.2748
	PBW-444182	As (188.980 nm)	0.0012	73.85	-1.9374
	PBW-444182	B (249.772 nm)	-0.0009 u	12.05	77.4860
	PBW-444182	Ba (230.424 nm)	0.0001	19.77	13.3013
	PBW-444182	Be (313.107 nm)	0.0000	22.29	-10.5884
	PBW-444182	Ca (317.933 nm)	0.0030	> 100.00	3624.4452
	PBW-444182	Cd (214.439 nm)	0.0000 u	> 100.00	7.9884
	PBW-444182	Co (230.786 nm)	0.0001	85.88	2.3584
	PBW-444182	Cr (267.716 nm)	0.0001	51.03	13.5546
	PBW-444182	Cu (327.395 nm)	0.0000 u	> 100.00	0.2472
	PBW-444182	Fe (234.350 nm)	-0.0002 u	68.72	66.2891
	PBW-444182	K (766.491 nm)	0.0475	> 100.00	826.5706
	PBW-444182	Mg (279.078 nm)	0.0004 u	> 100.00	2.0113
	PBW-444182	Mn (257.610 nm)	0.0000	9.07	25.8799
	PBW-444182	Mo (202.032 nm)	0.0019	27.18	26.5848
	PBW-444182	Na (588.995 nm)	0.0373 u	> 100.00	-12395.8365
	PBW-444182	Ni (230.299 nm)	0.0003 u	> 100.00	6.4278
	PBW-444182	Pb (220.353 nm)	0.0002 u	> 100.00	0.5970
	PBW-444182	Sb (217.582 nm)	0.0029	27.00	11.0114
	PBW-444182	Se (196.026 nm)	-0.0007 u	> 100.00	2.0122
	PBW-444182	Si (252.851 nm)	0.0206	7.12	201.1277
	PBW-444182	Sn (189.925 nm)	0.0005 u	> 100.00	5.6119
	PBW-444182	Sr (216.596 nm)	0.0000 u	> 100.00	5.0364
	PBW-444182	Ti (336.122 nm)	0.0024	32.98	432.4923
	PBW-444182	Tl (190.794 nm)	-0.0010 u	> 100.00	-1.7999
	PBW-444182	V (292.401 nm)	0.0001 u	> 100.00	13.0214
	PBW-444182	Y (360.074 nm)	1.01	6.58	660596.52
	PBW-444182	Y_R (360.074 nm)	1.01	6.58	660630.13
	PBW-444182	Zn (213.857 nm)	0.0003	32.88	27.2868
9/6/2024 18:25:18	LCSW-444182	Ag (328.068 nm)	0.0493	0.50	2934.0643
	LCSW-444182	Al (237.312 nm)	1.9870	0.56	5139.1375
	LCSW-444182	As (188.980 nm)	0.0359	4.54	54.8059
	LCSW-444182	B (249.772 nm)	0.9159	0.31	38740.6559
	LCSW-444182	Ba (230.424 nm)	1.9045	0.55	117427.9659
	LCSW-444182	Be (313.107 nm)	0.0489	0.35	57187.1089
	LCSW-444182	Ca (317.933 nm)	1.9789	0.28	77014.4609
	LCSW-444182	Cd (214.439 nm)	0.0510	0.41	3061.9098
	LCSW-444182	Co (230.786 nm)	0.4944	0.28	9983.7946
	LCSW-444182	Cr (267.716 nm)	0.1976	0.33	11309.4493

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	LCSW-444182	Cu (327.395 nm)	0.2498	0.39	11264.0730
	LCSW-444182	Fe (234.350 nm)	0.9523	0.62	21390.7054
	LCSW-444182	K (766.491 nm)	19.1499	0.38	23798.2026
	LCSW-444182	Mg (279.078 nm)	1.9514	0.27	7773.4540
	LCSW-444182	Mn (257.610 nm)	0.4773	0.29	163231.1169
	LCSW-444182	Mo (202.032 nm)	0.4347	5.00	4633.8223
	LCSW-444182	Na (588.995 nm)	19.3668	0.74	262406.8535
	LCSW-444182	Ni (230.299 nm)	0.4880	0.23	6267.2362
	LCSW-444182	Pb (220.353 nm)	0.5135	0.17	2554.8631
	LCSW-444182	Sb (217.582 nm)	0.4577	3.32	1061.1616
	LCSW-444182	Se (196.026 nm)	0.9917	0.71	733.5687
	LCSW-444182	Si (252.851 nm)	0.3196	0.95	2087.8181
	LCSW-444182	Sn (189.925 nm)	4.2270	1.80	10898.4395
	LCSW-444182	Sr (216.596 nm)	1.9841	0.25	37262.8485
	LCSW-444182	Ti (336.122 nm)	0.4776	0.54	71070.1441
	LCSW-444182	Tl (190.794 nm)	1.9749	0.28	1780.7360
	LCSW-444182	V (292.401 nm)	0.4847	0.37	17513.5891
	LCSW-444182	Y (360.074 nm)	1.02	0.35	669076.86
	LCSW-444182	Y_R (360.074 nm)	1.02	0.35	669081.01
	LCSW-444182	Zn (213.857 nm)	0.5209	0.38	30792.5103
9/6/2024 18:28:22	R2407966-001	Ag (328.068 nm)	0.0000 u	> 100.00	18.6560
	R2407966-001	Al (237.312 nm)	0.2535	0.99	645.9961
	R2407966-001	As (188.980 nm)	0.0030	23.78	1.0287
	R2407966-001	B (249.772 nm)	0.0095	1.15	514.8424
	R2407966-001	Ba (230.424 nm)	0.0247	0.08	1529.8984
	R2407966-001	Be (313.107 nm)	0.0000 u	> 100.00	-7.9182
	R2407966-001	Ca (317.933 nm)	16.2310	0.04	606382.1404
	R2407966-001	Cd (214.439 nm)	0.0000 u	> 100.00	10.4319
	R2407966-001	Co (230.786 nm)	0.0003 u	> 100.00	6.5003
	R2407966-001	Cr (267.716 nm)	0.0009	17.66	55.2370
	R2407966-001	Cu (327.395 nm)	0.0004	> 100.00	17.3764
	R2407966-001	Fe (234.350 nm)	0.9656	1.14	21688.6796
	R2407966-001	K (766.491 nm)	0.8844	2.77	1832.9610
	R2407966-001	Mg (279.078 nm)	4.5644	0.03	18182.0881
	R2407966-001	Mn (257.610 nm)	0.0705	0.05	24099.2260
	R2407966-001	Mo (202.032 nm)	0.0087	16.67	98.6575
	R2407966-001	Na (588.995 nm)	4.8914	0.61	56613.5644
	R2407966-001	Ni (230.299 nm)	0.0104	0.74	137.0431
	R2407966-001	Pb (220.353 nm)	0.0010	24.26	4.4513
	R2407966-001	Sb (217.582 nm)	0.0103	33.37	28.1808
	R2407966-001	Se (196.026 nm)	0.0055	54.74	6.5808
	R2407966-001	Si (252.851 nm)	2.9353	0.22	18594.8247
	R2407966-001	Sn (189.925 nm)	0.1128	28.38	295.0978
	R2407966-001	Sr (216.596 nm)	0.0703	0.22	1325.9189
	R2407966-001	Ti (336.122 nm)	0.0143	9.94	2193.3919
	R2407966-001	Tl (190.794 nm)	0.0006 u	> 100.00	-0.4051
	R2407966-001	V (292.401 nm)	0.0008	20.89	38.6952
	R2407966-001	Y (360.074 nm)	1.03	0.28	676071.04
	R2407966-001	Y_R (360.074 nm)	1.03	0.28	676079.52
	R2407966-001	Zn (213.857 nm)	0.0125	0.39	751.2562
9/6/2024 18:31:26	R2407966-003	Ag (328.068 nm)	0.0000 u	> 100.00	16.6701
	R2407966-003	Al (237.312 nm)	0.1429	5.09	359.3424
	R2407966-003	As (188.980 nm)	0.0007 u	> 100.00	-2.6648
	R2407966-003	B (249.772 nm)	0.0089	5.92	491.0451
	R2407966-003	Ba (230.424 nm)	0.0212	4.07	1317.8647
	R2407966-003	Be (313.107 nm)	0.0000 u	> 100.00	-5.9594
	R2407966-003	Ca (317.933 nm)	18.7385	4.25	699519.6349

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2407966-003	Cd (214.439 nm)	0.0000 u	> 100.00	10.9491
	R2407966-003	Co (230.786 nm)	0.0001	> 100.00	2.8183
	R2407966-003	Cr (267.716 nm)	0.0004	42.57	29.8840
	R2407966-003	Cu (327.395 nm)	0.0002	31.78	11.0788
	R2407966-003	Fe (234.350 nm)	0.8901	5.35	19998.2882
	R2407966-003	K (766.491 nm)	1.0152	8.84	1990.2926
	R2407966-003	Mg (279.078 nm)	6.6468	4.23	26476.8869
	R2407966-003	Mn (257.610 nm)	0.0430	4.31	14724.7096
	R2407966-003	Mo (202.032 nm)	0.0023	17.63	30.9403
	R2407966-003	Na (588.995 nm)	6.5763	4.14	80566.8648
	R2407966-003	Ni (230.299 nm)	0.0110	3.76	144.1031
	R2407966-003	Pb (220.353 nm)	-0.0002 u	> 100.00	-1.5821
	R2407966-003	Sb (217.582 nm)	0.0050	38.24	15.8702
	R2407966-003	Se (196.026 nm)	-0.0005 u	> 100.00	2.1226
	R2407966-003	Si (252.851 nm)	3.1895	4.31	20198.8593
	R2407966-003	Sn (189.925 nm)	0.0289	40.86	78.7275
	R2407966-003	Sr (216.596 nm)	0.0588	4.45	1110.7465
	R2407966-003	Ti (336.122 nm)	0.0058	8.41	930.8475
	R2407966-003	Tl (190.794 nm)	-0.0009 u	> 100.00	-1.7672
	R2407966-003	V (292.401 nm)	0.0007	25.86	33.3128
	R2407966-003	Y (360.074 nm)	1.00	3.81	657830.17
	R2407966-003	Y_R (360.074 nm)	1.00	3.81	657838.65
	R2407966-003	Zn (213.857 nm)	0.0080	4.62	481.7351
9/6/2024 18:34:30	R2407966-005	Ag (328.068 nm)	-0.0001 u	> 100.00	14.3101
	R2407966-005	Al (237.312 nm)	0.3552	0.19	909.7316
	R2407966-005	As (188.980 nm)	0.0006 u	> 100.00	-2.9203
	R2407966-005	B (249.772 nm)	0.0070	0.64	407.2312
	R2407966-005	Ba (230.424 nm)	0.0143	0.29	887.8012
	R2407966-005	Be (313.107 nm)	0.0000	76.14	-5.6464
	R2407966-005	Ca (317.933 nm)	17.4622	0.09	652114.2065
	R2407966-005	Cd (214.439 nm)	0.0000	> 100.00	9.2347
	R2407966-005	Co (230.786 nm)	0.0003	11.53	7.2722
	R2407966-005	Cr (267.716 nm)	0.0007	7.75	46.6416
	R2407966-005	Cu (327.395 nm)	0.0010	19.95	45.6256
	R2407966-005	Fe (234.350 nm)	1.0412	1.13	23380.8631
	R2407966-005	K (766.491 nm)	0.7579	3.86	1680.7804
	R2407966-005	Mg (279.078 nm)	1.7115	0.20	6817.9406
	R2407966-005	Mn (257.610 nm)	0.0779	0.16	26645.9523
	R2407966-005	Mo (202.032 nm)	0.0011	48.43	17.6119
	R2407966-005	Na (588.995 nm)	4.2702	0.65	47781.7479
	R2407966-005	Ni (230.299 nm)	0.0083	1.21	110.1163
	R2407966-005	Pb (220.353 nm)	0.0008	79.04	3.4485
	R2407966-005	Sb (217.582 nm)	0.0027	39.47	10.5232
	R2407966-005	Se (196.026 nm)	0.0023	83.51	4.2406
	R2407966-005	Si (252.851 nm)	2.3708	0.25	15032.3756
	R2407966-005	Sn (189.925 nm)	0.0139	36.97	40.1371
	R2407966-005	Sr (216.596 nm)	0.0467	0.24	882.7866
	R2407966-005	Ti (336.122 nm)	0.0064	6.93	1026.2928
	R2407966-005	Tl (190.794 nm)	0.0001 u	> 100.00	-0.8653
	R2407966-005	V (292.401 nm)	0.0006	6.35	32.0077
	R2407966-005	Y (360.074 nm)	1.03	0.38	675938.07
	R2407966-005	Y_R (360.074 nm)	1.03	0.38	675971.89
	R2407966-005	Zn (213.857 nm)	0.0086	0.54	516.1495
9/6/2024 18:37:34	R2407966-005S	Ag (328.068 nm)	0.0493	0.31	2930.5725
	R2407966-005S	Al (237.312 nm)	2.2556	0.49	5835.1921
	R2407966-005S	As (188.980 nm)	0.0374	6.79	57.2139
	R2407966-005S	B (249.772 nm)	0.9293	0.26	39308.0986

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2407966-005S	Ba (230.424 nm)	1.8930	0.52	116720.6018
	R2407966-005S	Be (313.107 nm)	0.0488	0.29	57164.1498
	R2407966-005S	Ca (317.933 nm)	18.4951	0.25	690480.0885
	R2407966-005S	Cd (214.439 nm)	0.0498	0.41	2995.4914
	R2407966-005S	Co (230.786 nm)	0.4875	0.11	9844.8252
	R2407966-005S	Cr (267.716 nm)	0.1964	0.13	11239.1411
	R2407966-005S	Cu (327.395 nm)	0.2498	0.32	11263.9022
	R2407966-005S	Fe (234.350 nm)	1.9055	0.48	42732.3996
	R2407966-005S	K (766.491 nm)	20.1999	0.59	25060.8949
	R2407966-005S	Mg (279.078 nm)	3.5354	0.18	14083.2125
	R2407966-005S	Mn (257.610 nm)	0.5457	0.26	186606.2103
	R2407966-005S	Mo (202.032 nm)	0.4435	3.54	4728.1691
	R2407966-005S	Na (588.995 nm)	23.5610	0.68	322035.7395
	R2407966-005S	Ni (230.299 nm)	0.4880	0.24	6267.1315
	R2407966-005S	Pb (220.353 nm)	0.5055	0.64	2514.9396
	R2407966-005S	Sb (217.582 nm)	0.4625	2.80	1072.1953
	R2407966-005S	Se (196.026 nm)	1.0018	0.59	740.9451
	R2407966-005S	Si (252.851 nm)	2.5889	0.41	16408.6996
	R2407966-005S	Sn (189.925 nm)	4.4934	1.01	11585.0421
	R2407966-005S	Sr (216.596 nm)	1.9961	0.18	37489.1053
	R2407966-005S	Ti (336.122 nm)	0.4831	0.17	71888.8496
	R2407966-005S	Tl (190.794 nm)	1.9558	0.57	1763.4918
	R2407966-005S	V (292.401 nm)	0.4851	0.25	17528.0037
	R2407966-005S	Y (360.074 nm)	1.01	0.53	664092.35
	R2407966-005S	Y_R (360.074 nm)	1.01	0.53	664120.55
	R2407966-005S	Zn (213.857 nm)	0.5207	0.33	30782.1086
9/6/2024 18:40:38	R2407966-005SD	Ag (328.068 nm)	0.0493	0.12	2930.0748
	R2407966-005SD	Al (237.312 nm)	2.2795	0.41	5897.2063
	R2407966-005SD	As (188.980 nm)	0.0390	5.43	59.8556
	R2407966-005SD	B (249.772 nm)	0.9380	0.15	39675.0022
	R2407966-005SD	Ba (230.424 nm)	1.9226	0.04	118544.6252
	R2407966-005SD	Be (313.107 nm)	0.0497	0.12	58140.2906
	R2407966-005SD	Ca (317.933 nm)	18.7968	0.02	701686.8822
	R2407966-005SD	Cd (214.439 nm)	0.0504	0.06	3029.8276
	R2407966-005SD	Co (230.786 nm)	0.4961	0.08	10018.4379
	R2407966-005SD	Cr (267.716 nm)	0.2002	0.08	11458.0113
	R2407966-005SD	Cu (327.395 nm)	0.2544	0.16	11471.0155
	R2407966-005SD	Fe (234.350 nm)	1.9023	0.34	42661.0465
	R2407966-005SD	K (766.491 nm)	20.4516	0.34	25363.5928
	R2407966-005SD	Mg (279.078 nm)	3.5862	0.02	14285.4888
	R2407966-005SD	Mn (257.610 nm)	0.5556	0.12	189991.7529
	R2407966-005SD	Mo (202.032 nm)	0.4618	3.21	4922.8830
	R2407966-005SD	Na (588.995 nm)	23.8605	0.51	326293.8342
	R2407966-005SD	Ni (230.299 nm)	0.4959	0.17	6368.0567
	R2407966-005SD	Pb (220.353 nm)	0.5104	0.41	2539.3154
	R2407966-005SD	Sb (217.582 nm)	0.4797	1.66	1111.9965
	R2407966-005SD	Se (196.026 nm)	1.0162	0.61	751.5868
	R2407966-005SD	Si (252.851 nm)	2.5978	0.29	16464.7886
	R2407966-005SD	Sn (189.925 nm)	4.6283	0.66	11932.5609
	R2407966-005SD	Sr (216.596 nm)	2.0234	0.04	38000.9184
	R2407966-005SD	Ti (336.122 nm)	0.4961	0.15	73820.2116
	R2407966-005SD	Tl (190.794 nm)	1.9747	0.17	1780.5761
	R2407966-005SD	V (292.401 nm)	0.4924	0.16	17793.5581
	R2407966-005SD	Y (360.074 nm)	1.02	0.37	665180.05
	R2407966-005SD	Y_R (360.074 nm)	1.01	0.37	665186.88
	R2407966-005SD	Zn (213.857 nm)	0.5301	0.11	31335.1372
9/6/2024 18:43:43	R2407966-005A	Ag (328.068 nm)	0.0481	0.24	2858.7334

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2407966-005A	Al (237.312 nm)	2.2586	0.45	5843.1871
	R2407966-005A	As (188.980 nm)	0.0365	5.92	55.6722
	R2407966-005A	B (249.772 nm)	0.9099	0.20	38489.7258
	R2407966-005A	Ba (230.424 nm)	1.8517	0.23	114174.6903
	R2407966-005A	Be (313.107 nm)	0.0478	0.13	55900.6394
	R2407966-005A	Ca (317.933 nm)	18.2395	0.06	680986.3980
	R2407966-005A	Cd (214.439 nm)	0.0486	0.45	2919.1694
	R2407966-005A	Co (230.786 nm)	0.4768	0.15	9628.5070
	R2407966-005A	Cr (267.716 nm)	0.1924	0.10	11009.7765
	R2407966-005A	Cu (327.395 nm)	0.2442	0.30	11014.0298
	R2407966-005A	Fe (234.350 nm)	1.9104	0.43	42842.2757
	R2407966-005A	K (766.491 nm)	19.7802	0.70	24556.1909
	R2407966-005A	Mg (279.078 nm)	3.4821	0.06	13870.7527
	R2407966-005A	Mn (257.610 nm)	0.5347	0.17	182828.7214
	R2407966-005A	Mo (202.032 nm)	0.4509	3.30	4806.3444
	R2407966-005A	Na (588.995 nm)	23.0617	0.58	314937.7043
	R2407966-005A	Ni (230.299 nm)	0.4780	0.13	6139.2487
	R2407966-005A	Pb (220.353 nm)	0.4942	0.36	2458.9413
	R2407966-005A	Sb (217.582 nm)	0.4670	1.83	1082.7196
	R2407966-005A	Se (196.026 nm)	0.9966	0.85	737.1560
	R2407966-005A	Si (252.851 nm)	2.5980	0.31	16465.8100
	R2407966-005A	Sn (189.925 nm)	4.5243	0.72	11664.7000
	R2407966-005A	Sr (216.596 nm)	1.9618	0.02	36845.1914
	R2407966-005A	Ti (336.122 nm)	0.4842	0.14	72052.6963
	R2407966-005A	Tl (190.794 nm)	1.9141	0.39	1725.9427
	R2407966-005A	V (292.401 nm)	0.4746	0.22	17148.8388
	R2407966-005A	Y (360.074 nm)	1.01	0.29	664923.01
	R2407966-005A	Y_R (360.074 nm)	1.01	0.29	664941.38
	R2407966-005A	Zn (213.857 nm)	0.5098	0.13	30135.9003
9/6/2024 18:46:46	R2407966-005L 5X	Ag (328.068 nm)	-0.0001 u	71.87	13.8660
	R2407966-005L 5X	Al (237.312 nm)	0.0688	2.90	167.3481
	R2407966-005L 5X	As (188.980 nm)	0.0019	66.33	-0.8424
	R2407966-005L 5X	B (249.772 nm)	0.0012	12.35	164.6954
	R2407966-005L 5X	Ba (230.424 nm)	0.0029	3.96	187.2679
	R2407966-005L 5X	Be (313.107 nm)	0.0000	65.17	-5.9750
	R2407966-005L 5X	Ca (317.933 nm)	3.4537	0.11	131793.7441
	R2407966-005L 5X	Cd (214.439 nm)	0.0000 u	> 100.00	7.1969
	R2407966-005L 5X	Co (230.786 nm)	0.0001	> 100.00	4.0277
	R2407966-005L 5X	Cr (267.716 nm)	0.0001	3.13	8.5450
	R2407966-005L 5X	Cu (327.395 nm)	0.0001	> 100.00	4.5158
	R2407966-005L 5X	Fe (234.350 nm)	0.2161	0.83	4908.7985
	R2407966-005L 5X	K (766.491 nm)	0.1885	15.17	996.1394
	R2407966-005L 5X	Mg (279.078 nm)	0.3377	0.54	1345.5687
	R2407966-005L 5X	Mn (257.610 nm)	0.0155	0.25	5293.0251
	R2407966-005L 5X	Mo (202.032 nm)	0.0080	21.03	91.4547
	R2407966-005L 5X	Na (588.995 nm)	0.8712	0.75	-540.4353
	R2407966-005L 5X	Ni (230.299 nm)	0.0016	35.72	23.6655
	R2407966-005L 5X	Pb (220.353 nm)	0.0006	88.67	2.6950
	R2407966-005L 5X	Sb (217.582 nm)	0.0128	33.24	33.7668
	R2407966-005L 5X	Se (196.026 nm)	0.0058	16.08	6.7658
	R2407966-005L 5X	Si (252.851 nm)	0.4662	0.45	3012.7880
	R2407966-005L 5X	Sn (189.925 nm)	0.1080	34.33	282.7566
	R2407966-005L 5X	Sr (216.596 nm)	0.0090	2.69	175.6513
	R2407966-005L 5X	Ti (336.122 nm)	0.0053	25.66	854.7314
	R2407966-005L 5X	Tl (190.794 nm)	0.0016	17.04	0.5454
	R2407966-005L 5X	V (292.401 nm)	0.0002 u	89.20	16.8360
	R2407966-005L 5X	Y (360.074 nm)	1.03	0.47	678139.70

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2407966-005L 5X	Y_R (360.074 nm)	1.03	0.47	678184.41
	R2407966-005L 5X	Zn (213.857 nm)	0.0018	2.52	117.2656
9/6/2024 18:49:50	R2407966-007	Ag (328.068 nm)	0.0000 u	> 100.00	18.9574
	R2407966-007	Al (237.312 nm)	0.0011	17.42	-8.1308
	R2407966-007	As (188.980 nm)	0.0013 u	> 100.00	-1.8352
	R2407966-007	B (249.772 nm)	-0.0010 u	8.18	73.1232
	R2407966-007	Ba (230.424 nm)	0.0001	37.90	12.4549
	R2407966-007	Be (313.107 nm)	0.0000 u	> 100.00	-13.8459
	R2407966-007	Ca (317.933 nm)	0.0124	0.62	3971.4494
	R2407966-007	Cd (214.439 nm)	0.0000 u	72.80	7.0431
	R2407966-007	Co (230.786 nm)	0.0002	64.79	4.8055
	R2407966-007	Cr (267.716 nm)	0.0003	10.97	23.1302
	R2407966-007	Cu (327.395 nm)	0.0001	83.68	2.8718
	R2407966-007	Fe (234.350 nm)	0.0016	9.10	106.0713
	R2407966-007	K (766.491 nm)	-0.0070 u	> 100.00	761.0076
	R2407966-007	Mg (279.078 nm)	0.0007	29.71	3.0452
	R2407966-007	Mn (257.610 nm)	0.0001	18.33	34.3752
	R2407966-007	Mo (202.032 nm)	0.0019	39.19	26.9605
	R2407966-007	Na (588.995 nm)	0.0329	14.21	-12459.4855
	R2407966-007	Ni (230.299 nm)	0.0000 u	> 100.00	2.7211
	R2407966-007	Pb (220.353 nm)	-0.0008 u	> 100.00	-4.4082
	R2407966-007	Sb (217.582 nm)	0.0057	49.83	17.3763
	R2407966-007	Se (196.026 nm)	0.0012 u	> 100.00	3.3686
	R2407966-007	Si (252.851 nm)	0.0192	10.86	192.3148
	R2407966-007	Sn (189.925 nm)	0.0300	40.63	81.7549
	R2407966-007	Sr (216.596 nm)	0.0001 u	> 100.00	6.8043
	R2407966-007	Ti (336.122 nm)	0.0014	43.09	280.6255
	R2407966-007	Tl (190.794 nm)	0.0012 u	> 100.00	0.1752
	R2407966-007	V (292.401 nm)	0.0000 u	> 100.00	10.6314
	R2407966-007	Y (360.074 nm)	1.05	0.29	686506.99
	R2407966-007	Y_R (360.074 nm)	1.05	0.29	686582.22
	R2407966-007	Zn (213.857 nm)	0.0019	2.91	121.2467
9/6/2024 18:52:53	Continuing Calibration Verification	Ag (328.068 nm)	0.4925	0.20	29126.3195
	Continuing Calibration Verification	Al (237.312 nm)	9.5231	0.36	24671.9127
	Continuing Calibration Verification	As (188.980 nm)	0.9534	0.37	1552.9213
	Continuing Calibration Verification	B (249.772 nm)	2.1971 Q	0.12	92779.4268 Q
	Continuing Calibration Verification	Ba (230.424 nm)	9.3847	0.43	578619.8354
	Continuing Calibration Verification	Be (313.107 nm)	0.2415	0.11	282753.2632
	Continuing Calibration Verification	Ca (317.933 nm)	24.7152	0.19	921515.8501
	Continuing Calibration Verification	Cd (214.439 nm)	0.4857	0.09	29114.8464
	Continuing Calibration Verification	Co (230.786 nm)	2.4093	0.28	48646.2563
	Continuing Calibration Verification	Cr (267.716 nm)	0.4954	0.17	28342.4015
	Continuing Calibration Verification	Cu (327.395 nm)	1.2064	0.43	54405.3195
	Continuing Calibration Verification	Fe (234.350 nm)	4.8072	0.13	107694.0057
	Continuing Calibration Verification	K (766.491 nm)	24.2359	0.39	29914.3700
	Continuing Calibration Verification	Mg (279.078 nm)	24.7669	0.12	98655.6963
	Continuing Calibration Verification	Mn (257.610 nm)	0.7142	0.09	244216.6825
	Continuing Calibration Verification	Mo (202.032 nm)	2.4712	0.74	26315.2577
	Continuing Calibration Verification	Na (588.995 nm)	24.5437	0.62	336007.0896
	Continuing Calibration Verification	Ni (230.299 nm)	1.9376	0.14	24873.9885
	Continuing Calibration Verification	Pb (220.353 nm)	0.4878	0.41	2427.2354
	Continuing Calibration Verification	Sb (217.582 nm)	4.7799	0.06	11041.6169
	Continuing Calibration Verification	Se (196.026 nm)	0.4700	0.48	348.9667
	Continuing Calibration Verification	Si (252.851 nm)	9.4025	0.61	59406.9142
	Continuing Calibration Verification	Sn (189.925 nm)	4.9821	0.48	12844.4307
	Continuing Calibration Verification	Sr (216.596 nm)	2.4406	0.37	45835.3366
	Continuing Calibration Verification	Ti (336.122 nm)	2.5032	0.08	372167.2275

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	Tl (190.794 nm)	0.9757	0.31	879.2822
	Continuing Calibration Verification	V (292.401 nm)	2.4639	0.12	88988.1045
	Continuing Calibration Verification	Y (360.074 nm)	0.97	0.86	638760.74
	Continuing Calibration Verification	Y_R (360.074 nm)	0.97	0.86	638818.75
	Continuing Calibration Verification	Zn (213.857 nm)	0.9661	0.43	57098.8957
9/6/2024 18:55:57	Continuing Calibration Blank	Ag (328.068 nm)	-0.0001 u	40.26	14.3906
	Continuing Calibration Blank	Al (237.312 nm)	-0.0008 u	> 100.00	-12.9796
	Continuing Calibration Blank	As (188.980 nm)	0.0021	59.43	-0.5161
	Continuing Calibration Blank	B (249.772 nm)	0.0003	42.57	128.3431
	Continuing Calibration Blank	Ba (230.424 nm)	0.0007	8.27	51.9257
	Continuing Calibration Blank	Be (313.107 nm)	0.0000 u	> 100.00	-8.4658
	Continuing Calibration Blank	Ca (317.933 nm)	0.0026	9.52	3608.3108
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000	57.76	10.8972
	Continuing Calibration Blank	Co (230.786 nm)	0.0002	98.61	6.3288
	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u	> 100.00	3.3631
	Continuing Calibration Blank	Cu (327.395 nm)	0.0000 u	> 100.00	0.0197
	Continuing Calibration Blank	Fe (234.350 nm)	0.0052	16.68	187.0730
	Continuing Calibration Blank	K (766.491 nm)	0.0609	50.38	842.6546
	Continuing Calibration Blank	Mg (279.078 nm)	0.0006 u	> 100.00	2.6700
	Continuing Calibration Blank	Mn (257.610 nm)	0.0001	17.99	46.7315
	Continuing Calibration Blank	Mo (202.032 nm)	0.0076	10.74	86.8358
	Continuing Calibration Blank	Na (588.995 nm)	0.0324	8.57	-12465.3554
	Continuing Calibration Blank	Ni (230.299 nm)	0.0003 u	> 100.00	6.4067
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0003 u	> 100.00	-2.1734
	Continuing Calibration Blank	Sb (217.582 nm)	0.0141	0.76	36.9738
	Continuing Calibration Blank	Se (196.026 nm)	0.0005 u	> 100.00	2.8529
	Continuing Calibration Blank	Si (252.851 nm)	0.0079	42.30	121.0646
	Continuing Calibration Blank	Sn (189.925 nm)	0.0115	42.30	34.0284
	Continuing Calibration Blank	Sr (216.596 nm)	0.0000 u	> 100.00	5.9182
	Continuing Calibration Blank	Ti (336.122 nm)	0.0082	25.15	1291.7062
	Continuing Calibration Blank	Tl (190.794 nm)	0.0011 u	> 100.00	0.0374
	Continuing Calibration Blank	V (292.401 nm)	0.0002	50.54	16.4262
	Continuing Calibration Blank	Y (360.074 nm)	1.03	0.47	674121.22
	Continuing Calibration Blank	Y_R (360.074 nm)	1.03	0.47	674193.69
	Continuing Calibration Blank	Zn (213.857 nm)	0.0002	11.89	19.9365
9/6/2024 18:59:01	R2407966-009	Ag (328.068 nm)	0.0000 u	> 100.00	16.0965
	R2407966-009	Al (237.312 nm)	0.3341	0.41	855.0798
	R2407966-009	As (188.980 nm)	0.0018	71.43	-0.8840
	R2407966-009	B (249.772 nm)	0.0073	2.53	419.7157
	R2407966-009	Ba (230.424 nm)	0.0144	0.18	895.4977
	R2407966-009	Be (313.107 nm)	0.0000	9.82	-1.1388
	R2407966-009	Ca (317.933 nm)	17.9296	0.09	669475.3044
	R2407966-009	Cd (214.439 nm)	0.0000 u	> 100.00	10.2113
	R2407966-009	Co (230.786 nm)	0.0001	> 100.00	2.4865
	R2407966-009	Cr (267.716 nm)	0.0006	1.36	39.5011
	R2407966-009	Cu (327.395 nm)	0.0007	11.10	33.6452
	R2407966-009	Fe (234.350 nm)	0.9812	1.22	22037.4697
	R2407966-009	K (766.491 nm)	0.7796	4.65	1706.9549
	R2407966-009	Mg (279.078 nm)	1.7607	0.12	7013.8679
	R2407966-009	Mn (257.610 nm)	0.0746	0.06	25534.3997
	R2407966-009	Mo (202.032 nm)	0.0018	15.20	25.5026
	R2407966-009	Na (588.995 nm)	4.2679	0.39	47749.6706
	R2407966-009	Ni (230.299 nm)	0.0077	1.89	101.7795
	R2407966-009	Pb (220.353 nm)	0.0013	74.17	5.8587
	R2407966-009	Sb (217.582 nm)	0.0018	41.46	8.3959
	R2407966-009	Se (196.026 nm)	-0.0012 u	> 100.00	1.6053
	R2407966-009	Si (252.851 nm)	2.3207	0.30	14716.2409

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2407966-009	Sn (189.925 nm)	0.0069	39.68	22.0415
	R2407966-009	Sr (216.596 nm)	0.0474	0.51	895.7284
	R2407966-009	Ti (336.122 nm)	0.0068	11.83	1081.9174
	R2407966-009	Tl (190.794 nm)	-0.0005 u	> 100.00	-1.3597
	R2407966-009	V (292.401 nm)	0.0006	10.53	31.3631
	R2407966-009	Y (360.074 nm)	1.04	0.32	680015.08
	R2407966-009	Y_R (360.074 nm)	1.04	0.32	680085.54
	R2407966-009	Zn (213.857 nm)	0.0105	0.98	630.8181
9/6/2024 19:02:05	R2408092-001	Ag (328.068 nm)	0.0000 u	> 100.00	17.5444
	R2408092-001	Al (237.312 nm)	0.0470	2.82	110.7014
	R2408092-001	As (188.980 nm)	-0.0002 u	> 100.00	-4.1443
	R2408092-001	B (249.772 nm)	0.0297	2.43	1367.1127
	R2408092-001	Ba (230.424 nm)	0.0577	2.28	3565.2737
	R2408092-001	Be (313.107 nm)	0.0000	90.63	-13.2777
	R2408092-001	Ca (317.933 nm)	36.2648	2.27	1350503.3502
	R2408092-001	Cd (214.439 nm)	0.0000 u	> 100.00	9.1598
	R2408092-001	Co (230.786 nm)	0.0002	77.45	5.6290
	R2408092-001	Cr (267.716 nm)	0.0008	6.74	52.2253
	R2408092-001	Cu (327.395 nm)	0.0025	9.03	111.8237
	R2408092-001	Fe (234.350 nm)	0.2518	3.85	5707.7557
	R2408092-001	K (766.491 nm)	3.8309	2.47	5376.2539
	R2408092-001	Mg (279.078 nm)	11.0953	2.23	44196.9290
	R2408092-001	Mn (257.610 nm)	0.0662	2.21	22631.7742
	R2408092-001	Mo (202.032 nm)	0.0017	24.49	24.4920
	R2408092-001	Na (588.995 nm)	62.4854 o	2.60	875415.7931
	R2408092-001	Ni (230.299 nm)	0.0120	1.40	156.6872
	R2408092-001	Pb (220.353 nm)	0.0014	75.44	6.5775
	R2408092-001	Sb (217.582 nm)	0.0017	78.44	8.1541
	R2408092-001	Se (196.026 nm)	0.0001 u	> 100.00	2.6084
	R2408092-001	Si (252.851 nm)	3.5036	2.43	22181.0265
	R2408092-001	Sn (189.925 nm)	0.0055	33.10	18.4941
	R2408092-001	Sr (216.596 nm)	0.1325	2.38	2494.0986
	R2408092-001	Ti (336.122 nm)	0.0036	13.20	613.3934
	R2408092-001	Tl (190.794 nm)	-0.0007 u	> 100.00	-1.5631
	R2408092-001	V (292.401 nm)	0.0010	22.66	44.6101
	R2408092-001	Y (360.074 nm)	0.99	2.14	647709.33
	R2408092-001	Y_R (360.074 nm)	0.99	2.14	647767.98
	R2408092-001	Zn (213.857 nm)	0.0085	2.77	515.0395
9/6/2024 19:05:08	R2408092-003	Ag (328.068 nm)	0.0000 u	> 100.00	14.8579
	R2408092-003	Al (237.312 nm)	0.0821	1.54	201.6976
	R2408092-003	As (188.980 nm)	0.0013 u	> 100.00	-1.8389
	R2408092-003	B (249.772 nm)	0.0043	2.48	293.3767
	R2408092-003	Ba (230.424 nm)	0.0201	0.31	1247.8710
	R2408092-003	Be (313.107 nm)	0.0000 u	> 100.00	-14.2649
	R2408092-003	Ca (317.933 nm)	5.9271	0.14	223664.3497
	R2408092-003	Cd (214.439 nm)	0.0002	5.99	20.6342
	R2408092-003	Co (230.786 nm)	0.0002	39.57	5.2014
	R2408092-003	Cr (267.716 nm)	0.0003	10.17	24.2597
	R2408092-003	Cu (327.395 nm)	0.0005	48.10	23.7506
	R2408092-003	Fe (234.350 nm)	0.2245	1.73	5096.1576
	R2408092-003	K (766.491 nm)	0.6192	1.29	1514.0794
	R2408092-003	Mg (279.078 nm)	1.0652	0.24	4243.4277
	R2408092-003	Mn (257.610 nm)	0.0324	0.17	11104.6882
	R2408092-003	Mo (202.032 nm)	0.0006	39.90	12.8568
	R2408092-003	Na (588.995 nm)	5.7424	0.48	68711.4145
	R2408092-003	Ni (230.299 nm)	0.0032	10.49	44.0477
	R2408092-003	Pb (220.353 nm)	0.0004	61.56	1.3674

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408092-003	Sb (217.582 nm)	0.0018	33.02	8.5366
	R2408092-003	Se (196.026 nm)	0.0004 u	> 100.00	2.7868
	R2408092-003	Si (252.851 nm)	0.9676	0.28	6177.4394
	R2408092-003	Sn (189.925 nm)	0.0047	40.44	16.3556
	R2408092-003	Sr (216.596 nm)	0.0228	0.63	434.5041
	R2408092-003	Ti (336.122 nm)	0.0018	19.80	343.2625
	R2408092-003	Tl (190.794 nm)	0.0003 u	> 100.00	-0.6525
	R2408092-003	V (292.401 nm)	0.0003	83.52	18.8365
	R2408092-003	Y (360.074 nm)	1.04	0.46	679722.54
	R2408092-003	Y_R (360.074 nm)	1.04	0.46	679793.63
	R2408092-003	Zn (213.857 nm)	0.0036	2.08	224.2494
9/6/2024 19:08:12	R2408092-005	Ag (328.068 nm)	0.0000 u	> 100.00	19.2977
	R2408092-005	Al (237.312 nm)	0.0296	4.90	65.6062
	R2408092-005	As (188.980 nm)	0.0023	80.20	-0.1759
	R2408092-005	B (249.772 nm)	0.0053	2.70	335.0642
	R2408092-005	Ba (230.424 nm)	0.0257	0.18	1591.0952
	R2408092-005	Be (313.107 nm)	0.0000	28.76	-3.8670
	R2408092-005	Ca (317.933 nm)	6.1945	0.09	233597.7440
	R2408092-005	Cd (214.439 nm)	0.0002	34.25	18.2325
	R2408092-005	Co (230.786 nm)	0.0000 u	> 100.00	2.1078
	R2408092-005	Cr (267.716 nm)	0.0006	5.74	37.2779
	R2408092-005	Cu (327.395 nm)	0.0004	2.40	16.9404
	R2408092-005	Fe (234.350 nm)	0.1688	1.78	3851.1902
	R2408092-005	K (766.491 nm)	0.5970	9.90	1487.3546
	R2408092-005	Mg (279.078 nm)	1.1248	0.22	4480.8752
	R2408092-005	Mn (257.610 nm)	0.0372	0.12	12732.0763
	R2408092-005	Mo (202.032 nm)	0.0006	27.42	13.0677
	R2408092-005	Na (588.995 nm)	10.2459	0.35	132736.9694
	R2408092-005	Ni (230.299 nm)	0.0039	4.48	52.9534
	R2408092-005	Pb (220.353 nm)	0.0021	52.18	9.7982
	R2408092-005	Sb (217.582 nm)	0.0032	11.81	11.6543
	R2408092-005	Se (196.026 nm)	-0.0015 u	> 100.00	1.4422
	R2408092-005	Si (252.851 nm)	1.2211	0.16	7776.8731
	R2408092-005	Sn (189.925 nm)	0.0042	30.25	15.0103
	R2408092-005	Sr (216.596 nm)	0.0389	0.78	736.3751
	R2408092-005	Ti (336.122 nm)	0.0008	34.66	196.5283
	R2408092-005	Tl (190.794 nm)	-0.0001 u	> 100.00	-1.0034
	R2408092-005	V (292.401 nm)	0.0000 u	> 100.00	8.6602
	R2408092-005	Y (360.074 nm)	1.04	0.25	679246.15
	R2408092-005	Y_R (360.074 nm)	1.04	0.25	679323.00
	R2408092-005	Zn (213.857 nm)	0.0040	0.11	248.3125
9/6/2024 19:11:16	R2408094-001	Ag (328.068 nm)	0.0000 u	> 100.00	20.1809
	R2408094-001	Al (237.312 nm)	0.0351	2.47	79.9915
	R2408094-001	As (188.980 nm)	0.0021	79.65	-0.5383
	R2408094-001	B (249.772 nm)	0.0078	3.54	442.0267
	R2408094-001	Ba (230.424 nm)	0.0244	2.92	1514.6519
	R2408094-001	Be (313.107 nm)	0.0000 u	> 100.00	-16.5671
	R2408094-001	Ca (317.933 nm)	14.0467	2.50	525251.3462
	R2408094-001	Cd (214.439 nm)	0.0000 u	> 100.00	9.2574
	R2408094-001	Co (230.786 nm)	0.0003	43.54	7.5270
	R2408094-001	Cr (267.716 nm)	0.0004	14.89	26.0216
	R2408094-001	Cu (327.395 nm)	0.0002	47.28	8.5319
	R2408094-001	Fe (234.350 nm)	0.1135	4.01	2611.2795
	R2408094-001	K (766.491 nm)	0.6586	6.29	1561.4646
	R2408094-001	Mg (279.078 nm)	2.6964	2.43	10740.9199
	R2408094-001	Mn (257.610 nm)	0.0258	2.42	8822.8987
	R2408094-001	Mo (202.032 nm)	0.0003	47.78	9.3473

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408094-001	Na (588.995 nm)	9.5506	2.57	122852.0712
	R2408094-001	Ni (230.299 nm)	0.0069	3.15	91.2243
	R2408094-001	Pb (220.353 nm)	0.0009 u	> 100.00	3.8703
	R2408094-001	Sb (217.582 nm)	0.0022	70.26	9.2922
	R2408094-001	Se (196.026 nm)	-0.0019 u	> 100.00	1.1367
	R2408094-001	Si (252.851 nm)	1.0537	2.45	6720.8189
	R2408094-001	Sn (189.925 nm)	0.0026	54.12	11.0079
	R2408094-001	Sr (216.596 nm)	0.0809	2.91	1525.3612
	R2408094-001	Ti (336.122 nm)	0.0007	26.22	171.3698
	R2408094-001	Tl (190.794 nm)	-0.0003 u	> 100.00	-1.1937
	R2408094-001	V (292.401 nm)	0.0001 u	> 100.00	13.3882
	R2408094-001	Y (360.074 nm)	1.02	2.31	665708.09
	R2408094-001	Y_R (360.074 nm)	1.02	2.32	665898.69
	R2408094-001	Zn (213.857 nm)	0.0020	2.65	129.8555
9/6/2024 19:14:20	R2408094-003	Ag (328.068 nm)	0.0001 u	> 100.00	21.9106
	R2408094-003	Al (237.312 nm)	0.2862	0.79	730.9217
	R2408094-003	As (188.980 nm)	0.0035	35.56	1.7836
	R2408094-003	B (249.772 nm)	0.0291	0.85	1341.3687
	R2408094-003	Ba (230.424 nm)	0.0229	0.38	1423.2303
	R2408094-003	Be (313.107 nm)	0.0000	51.08	-8.3176
	R2408094-003	Ca (317.933 nm)	43.1145	0.12	1604922.5796
	R2408094-003	Cd (214.439 nm)	0.0000 u	> 100.00	7.1487
	R2408094-003	Co (230.786 nm)	0.0002	47.56	5.6457
	R2408094-003	Cr (267.716 nm)	0.0009	4.18	57.5109
	R2408094-003	Cu (327.395 nm)	0.0035	6.87	156.6151
	R2408094-003	Fe (234.350 nm)	0.6929	1.52	15583.2040
	R2408094-003	K (766.491 nm)	3.1312	1.02	4534.8054
	R2408094-003	Mg (279.078 nm)	11.3615	0.13	45257.2400
	R2408094-003	Mn (257.610 nm)	0.0789	0.07	26989.0630
	R2408094-003	Mo (202.032 nm)	0.0010	35.73	16.7703
	R2408094-003	Na (588.995 nm)	34.9042	0.35	483299.5900
	R2408094-003	Ni (230.299 nm)	0.0125	4.32	163.4360
	R2408094-003	Pb (220.353 nm)	0.0016	69.79	7.3429
	R2408094-003	Sb (217.582 nm)	0.0017 u	95.91	8.2934
	R2408094-003	Se (196.026 nm)	-0.0011 u	53.26	1.7211
	R2408094-003	Si (252.851 nm)	3.3208	0.33	21027.3926
	R2408094-003	Sn (189.925 nm)	0.0028	85.81	11.4331
	R2408094-003	Sr (216.596 nm)	0.1402	0.38	2637.9268
	R2408094-003	Ti (336.122 nm)	0.0028	5.14	492.3747
	R2408094-003	Tl (190.794 nm)	-0.0005 u	> 100.00	-1.3322
	R2408094-003	V (292.401 nm)	0.0014	5.37	58.7730
	R2408094-003	Y (360.074 nm)	1.01	0.47	661164.31
	R2408094-003	Y_R (360.074 nm)	1.01	0.47	661341.41
	R2408094-003	Zn (213.857 nm)	0.0068	0.61	412.4134
9/6/2024 19:17:24	R2408152-001	Ag (328.068 nm)	0.0000 u	> 100.00	17.0258
	R2408152-001	Al (237.312 nm)	0.0094	5.76	13.2538
	R2408152-001	As (188.980 nm)	0.0016	46.31	-1.2120
	R2408152-001	B (249.772 nm)	0.0010	8.91	156.4077
	R2408152-001	Ba (230.424 nm)	0.0079	0.88	496.9288
	R2408152-001	Be (313.107 nm)	0.0000	59.06	-12.5069
	R2408152-001	Ca (317.933 nm)	9.7706	0.14	366425.0069
	R2408152-001	Cd (214.439 nm)	0.0000 u	> 100.00	9.8525
	R2408152-001	Co (230.786 nm)	0.0003	48.15	8.0016
	R2408152-001	Cr (267.716 nm)	0.0006	16.56	39.0560
	R2408152-001	Cu (327.395 nm)	0.0010	14.93	42.8050
	R2408152-001	Fe (234.350 nm)	0.4545	1.37	10247.3300
	R2408152-001	K (766.491 nm)	0.1876	15.35	994.9584

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408152-001	Mg (279.078 nm)	0.5618	0.08	2238.1698
	R2408152-001	Mn (257.610 nm)	0.6267	0.09	214304.7520
	R2408152-001	Mo (202.032 nm)	0.0001 u	> 100.00	7.2269
	R2408152-001	Na (588.995 nm)	0.5577	1.14	-4998.4071
	R2408152-001	Ni (230.299 nm)	0.0053	3.53	70.5640
	R2408152-001	Pb (220.353 nm)	0.0002 u	> 100.00	0.5433
	R2408152-001	Sb (217.582 nm)	0.0003 u	> 100.00	4.9709
	R2408152-001	Se (196.026 nm)	-0.0010 u	> 100.00	1.7971
	R2408152-001	Si (252.851 nm)	1.5869	0.13	10085.6407
	R2408152-001	Sn (189.925 nm)	0.0024	36.81	10.3849
	R2408152-001	Sr (216.596 nm)	0.0381	0.97	722.0328
	R2408152-001	Ti (336.122 nm)	0.0005	18.08	143.2784
	R2408152-001	Tl (190.794 nm)	0.0004	> 100.00	-0.5823
	R2408152-001	V (292.401 nm)	0.0001	44.13	12.9673
	R2408152-001	Y (360.074 nm)	1.05	0.32	686540.78
	R2408152-001	Y_R (360.074 nm)	1.05	0.31	686675.82
	R2408152-001	Zn (213.857 nm)	0.0058	0.51	350.8786
9/6/2024 19:20:28	R2408152-003	Ag (328.068 nm)	0.0000 u	> 100.00	15.4336
	R2408152-003	Al (237.312 nm)	0.0059	8.52	4.2979
	R2408152-003	As (188.980 nm)	0.0016 u	> 100.00	-1.2382
	R2408152-003	B (249.772 nm)	0.0014	14.82	171.3336
	R2408152-003	Ba (230.424 nm)	0.0055	7.09	345.4688
	R2408152-003	Be (313.107 nm)	0.0000 u	> 100.00	-15.8678
	R2408152-003	Ca (317.933 nm)	9.7320	7.12	364989.0813
	R2408152-003	Cd (214.439 nm)	0.0000 u	> 100.00	11.0544
	R2408152-003	Co (230.786 nm)	0.0000 u	> 100.00	1.8661
	R2408152-003	Cr (267.716 nm)	0.0012	4.11	75.9005
	R2408152-003	Cu (327.395 nm)	0.0001 u	98.04	3.8957
	R2408152-003	Fe (234.350 nm)	0.0446	6.87	1068.8765
	R2408152-003	K (766.491 nm)	0.1633	29.82	965.7832
	R2408152-003	Mg (279.078 nm)	0.5761	7.29	2294.9992
	R2408152-003	Mn (257.610 nm)	0.0205	7.14	7034.6690
	R2408152-003	Mo (202.032 nm)	0.0002	> 100.00	7.8888
	R2408152-003	Na (588.995 nm)	0.5444	3.66	-5186.6029
	R2408152-003	Ni (230.299 nm)	0.0023	2.71	32.6750
	R2408152-003	Pb (220.353 nm)	-0.0001 u	> 100.00	-0.8896
	R2408152-003	Sb (217.582 nm)	0.0000 u	> 100.00	4.3753
	R2408152-003	Se (196.026 nm)	0.0008 u	> 100.00	3.1093
	R2408152-003	Si (252.851 nm)	0.7982	7.22	5107.9909
	R2408152-003	Sn (189.925 nm)	0.0017	55.68	8.7972
	R2408152-003	Sr (216.596 nm)	0.0381	6.98	721.3720
	R2408152-003	Ti (336.122 nm)	0.0004	37.39	131.3904
	R2408152-003	Tl (190.794 nm)	0.0000 u	> 100.00	-0.9341
	R2408152-003	V (292.401 nm)	0.0001 u	> 100.00	14.1773
	R2408152-003	Y (360.074 nm)	1.02	6.10	670819.03
	R2408152-003	Y_R (360.074 nm)	1.02	6.10	670958.55
	R2408152-003	Zn (213.857 nm)	0.0024	9.70	154.2658
9/6/2024 19:23:32	Continuing Calibration Verification	Ag (328.068 nm)	0.4883	0.12	28879.6302
	Continuing Calibration Verification	Al (237.312 nm)	9.4127	0.23	24385.7694
	Continuing Calibration Verification	As (188.980 nm)	0.9431	0.61	1536.1409
	Continuing Calibration Verification	B (249.772 nm)	2.1734 Q	0.12	91777.4613 Q
	Continuing Calibration Verification	Ba (230.424 nm)	9.2981	0.22	573279.2233
	Continuing Calibration Verification	Be (313.107 nm)	0.2390	0.23	279802.9998
	Continuing Calibration Verification	Ca (317.933 nm)	24.4837	0.37	912915.2088
	Continuing Calibration Verification	Cd (214.439 nm)	0.4802	0.38	28785.3868
	Continuing Calibration Verification	Co (230.786 nm)	2.3890	0.34	48236.4771
	Continuing Calibration Verification	Cr (267.716 nm)	0.4900	0.30	28036.8149

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	Cu (327.395 nm)	1.1943	0.12	53856.6054
	Continuing Calibration Verification	Fe (234.350 nm)	4.7512	0.36	106441.8215
	Continuing Calibration Verification	K (766.491 nm)	23.9813	0.39	29608.1934
	Continuing Calibration Verification	Mg (279.078 nm)	24.5352	0.34	97732.8187
	Continuing Calibration Verification	Mn (257.610 nm)	0.7066	0.23	241610.8345
	Continuing Calibration Verification	Mo (202.032 nm)	2.4399	1.14	25982.2835
	Continuing Calibration Verification	Na (588.995 nm)	24.3195	0.46	332819.1791
	Continuing Calibration Verification	Ni (230.299 nm)	1.9206	0.28	24656.3398
	Continuing Calibration Verification	Pb (220.353 nm)	0.4812	0.38	2394.2828
	Continuing Calibration Verification	Sb (217.582 nm)	4.7183	0.12	10899.4464
	Continuing Calibration Verification	Se (196.026 nm)	0.4627	0.85	343.5608
	Continuing Calibration Verification	Si (252.851 nm)	9.3128	0.75	58841.0365
	Continuing Calibration Verification	Sn (189.925 nm)	4.8772	0.27	12574.2442
	Continuing Calibration Verification	Sr (216.596 nm)	2.4021	0.51	45112.8248
	Continuing Calibration Verification	Ti (336.122 nm)	2.4697	0.33	367186.1306
	Continuing Calibration Verification	Tl (190.794 nm)	0.9676	0.19	872.0248
	Continuing Calibration Verification	V (292.401 nm)	2.4383	0.19	88066.3250
	Continuing Calibration Verification	Y (360.074 nm)	0.98	0.71	644237.22
	Continuing Calibration Verification	Y_R (360.074 nm)	0.98	0.71	644372.37
	Continuing Calibration Verification	Zn (213.857 nm)	0.9535	0.08	56355.7502
9/6/2024 19:26:35	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u	> 100.00	15.2466
	Continuing Calibration Blank	Al (237.312 nm)	0.0005 u	> 100.00	-9.7230
	Continuing Calibration Blank	As (188.980 nm)	0.0043	36.69	3.1961
	Continuing Calibration Blank	B (249.772 nm)	0.0001 u	> 100.00	119.8111
	Continuing Calibration Blank	Ba (230.424 nm)	0.0007	6.71	51.3052
	Continuing Calibration Blank	Be (313.107 nm)	0.0000 u	> 100.00	-12.7671
	Continuing Calibration Blank	Ca (317.933 nm)	0.0018	3.07	3581.2330
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	7.6652
	Continuing Calibration Blank	Co (230.786 nm)	0.0004	34.06	9.0207
	Continuing Calibration Blank	Cr (267.716 nm)	0.0001 u	> 100.00	10.1361
	Continuing Calibration Blank	Cu (327.395 nm)	0.0002	43.24	9.6356
	Continuing Calibration Blank	Fe (234.350 nm)	0.0058	18.36	200.6149
	Continuing Calibration Blank	K (766.491 nm)	0.0222 u	> 100.00	796.1159
	Continuing Calibration Blank	Mg (279.078 nm)	0.0006	83.94	2.9450
	Continuing Calibration Blank	Mn (257.610 nm)	0.0001	7.19	47.2170
	Continuing Calibration Blank	Mo (202.032 nm)	0.0081	11.88	92.1345
	Continuing Calibration Blank	Na (588.995 nm)	0.0242	8.52	-12582.3654
	Continuing Calibration Blank	Ni (230.299 nm)	0.0000 u	> 100.00	2.9851
	Continuing Calibration Blank	Pb (220.353 nm)	0.0008	88.20	3.2492
	Continuing Calibration Blank	Sb (217.582 nm)	0.0141	6.03	36.7898
	Continuing Calibration Blank	Se (196.026 nm)	0.0004 u	> 100.00	2.8130
	Continuing Calibration Blank	Si (252.851 nm)	0.0081	25.98	122.2284
	Continuing Calibration Blank	Sn (189.925 nm)	0.0041	25.77	14.9452
	Continuing Calibration Blank	Sr (216.596 nm)	0.0002	53.42	10.2983
	Continuing Calibration Blank	Ti (336.122 nm)	0.0087	25.02	1371.8378
	Continuing Calibration Blank	Tl (190.794 nm)	0.0000 u	> 100.00	-0.9534
	Continuing Calibration Blank	V (292.401 nm)	0.0001 u	97.41	14.2228
	Continuing Calibration Blank	Y (360.074 nm)	1.03	0.42	676573.01
	Continuing Calibration Blank	Y_R (360.074 nm)	1.03	0.43	676750.44
	Continuing Calibration Blank	Zn (213.857 nm)	0.0002	17.07	19.8241
9/6/2024 19:29:40	R2408152-003S	Ag (328.068 nm)	0.0493	0.23	2931.3206
	R2408152-003S	Al (237.312 nm)	1.9872	0.33	5139.5182
	R2408152-003S	As (188.980 nm)	0.0383	3.82	58.6051
	R2408152-003S	B (249.772 nm)	0.9227	0.06	39029.7954
	R2408152-003S	Ba (230.424 nm)	1.9142	0.23	118025.0346
	R2408152-003S	Be (313.107 nm)	0.0492	0.08	57563.9928
	R2408152-003S	Ca (317.933 nm)	11.0863	0.16	415292.0366

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408152-003S	Cd (214.439 nm)	0.0503	0.31	3021.3834
	R2408152-003S	Co (230.786 nm)	0.4932	0.14	9959.5628
	R2408152-003S	Cr (267.716 nm)	0.1991	0.15	11397.5837
	R2408152-003S	Cu (327.395 nm)	0.2498	0.16	11263.1926
	R2408152-003S	Fe (234.350 nm)	0.9973	0.31	22398.7371
	R2408152-003S	K (766.491 nm)	19.4597	0.08	24170.7245
	R2408152-003S	Mg (279.078 nm)	2.4893	0.13	9916.0029
	R2408152-003S	Mn (257.610 nm)	0.4967	0.12	169835.3593
	R2408152-003S	Mo (202.032 nm)	0.4490	4.18	4785.9952
	R2408152-003S	Na (588.995 nm)	19.9936	0.33	271318.9345
	R2408152-003S	Ni (230.299 nm)	0.4902	0.27	6295.9774
	R2408152-003S	Pb (220.353 nm)	0.5116	0.05	2545.5960
	R2408152-003S	Sb (217.582 nm)	0.4660	2.03	1080.3065
	R2408152-003S	Se (196.026 nm)	1.0012	0.43	740.5011
	R2408152-003S	Si (252.851 nm)	1.0885	0.16	6940.0069
	R2408152-003S	Sn (189.925 nm)	4.4326	1.11	11428.2585
	R2408152-003S	Sr (216.596 nm)	2.0031	0.23	37619.9397
	R2408152-003S	Ti (336.122 nm)	0.4819	0.67	71712.7807
	R2408152-003S	Tl (190.794 nm)	1.9870	0.17	1791.7116
	R2408152-003S	V (292.401 nm)	0.4878	0.09	17624.2513
	R2408152-003S	Y (360.074 nm)	1.03	0.29	672916.92
	R2408152-003S	Y_R (360.074 nm)	1.03	0.29	673102.21
	R2408152-003S	Zn (213.857 nm)	0.5209	0.15	30788.8523
9/6/2024 19:32:44	R2408152-003SD	Ag (328.068 nm)	0.0512	4.87	3041.5623
	R2408152-003SD	Al (237.312 nm)	2.0522	4.90	5308.1827
	R2408152-003SD	As (188.980 nm)	0.0385	9.72	59.0192
	R2408152-003SD	B (249.772 nm)	0.9554	4.78	40406.5909
	R2408152-003SD	Ba (230.424 nm)	1.9753	4.50	121795.0230
	R2408152-003SD	Be (313.107 nm)	0.0509	4.85	59538.4015
	R2408152-003SD	Ca (317.933 nm)	11.5141	4.77	431183.9410
	R2408152-003SD	Cd (214.439 nm)	0.0521	4.81	3130.4432
	R2408152-003SD	Co (230.786 nm)	0.5101	4.80	10299.8454
	R2408152-003SD	Cr (267.716 nm)	0.2059	4.83	11784.9009
	R2408152-003SD	Cu (327.395 nm)	0.2587	5.00	11667.8136
	R2408152-003SD	Fe (234.350 nm)	1.0390	5.18	23332.5947
	R2408152-003SD	K (766.491 nm)	20.1271	4.90	24973.2942
	R2408152-003SD	Mg (279.078 nm)	2.5810	4.93	10281.2735
	R2408152-003SD	Mn (257.610 nm)	0.5139	4.80	175741.9390
	R2408152-003SD	Mo (202.032 nm)	0.4766	2.45	5079.8081
	R2408152-003SD	Na (588.995 nm)	20.6300	4.78	280366.1737
	R2408152-003SD	Ni (230.299 nm)	0.5071	4.80	6512.7297
	R2408152-003SD	Pb (220.353 nm)	0.5300	4.80	2637.2104
	R2408152-003SD	Sb (217.582 nm)	0.4901	6.79	1136.1155
	R2408152-003SD	Se (196.026 nm)	1.0385	4.20	768.0283
	R2408152-003SD	Si (252.851 nm)	1.1352	4.97	7234.5777
	R2408152-003SD	Sn (189.925 nm)	4.7692	5.00	12295.8943
	R2408152-003SD	Sr (216.596 nm)	2.0714	4.72	38903.2968
	R2408152-003SD	Ti (336.122 nm)	0.5069	4.59	75429.8806
	R2408152-003SD	Tl (190.794 nm)	2.0452	4.79	1844.1457
	R2408152-003SD	V (292.401 nm)	0.5051	4.82	18250.5964
	R2408152-003SD	Y (360.074 nm)	1.00	4.23	655576.65
	R2408152-003SD	Y_R (360.074 nm)	1.00	4.23	655739.48
	R2408152-003SD	Zn (213.857 nm)	0.5386	4.79	31837.9544
9/6/2024 19:35:47	R2408152-003A	Ag (328.068 nm)	0.0481	0.66	2857.7618
	R2408152-003A	Al (237.312 nm)	1.9092	0.36	4937.5267
	R2408152-003A	As (188.980 nm)	0.0351	1.57	53.4180
	R2408152-003A	B (249.772 nm)	0.8928	0.21	37767.4671

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408152-003A	Ba (230.424 nm)	1.8380	0.08	113332.3452
	R2408152-003A	Be (313.107 nm)	0.0473	0.31	55374.8347
	R2408152-003A	Ca (317.933 nm)	10.7057	0.25	401155.5154
	R2408152-003A	Cd (214.439 nm)	0.0484	0.22	2909.0604
	R2408152-003A	Co (230.786 nm)	0.4739	0.20	9570.4476
	R2408152-003A	Cr (267.716 nm)	0.1916	0.31	10967.4456
	R2408152-003A	Cu (327.395 nm)	0.2405	0.44	10846.3170
	R2408152-003A	Fe (234.350 nm)	0.9653	0.63	21682.9800
	R2408152-003A	K (766.491 nm)	18.7952	0.49	23371.7264
	R2408152-003A	Mg (279.078 nm)	2.3997	0.22	9559.0472
	R2408152-003A	Mn (257.610 nm)	0.4781	0.26	163498.5826
	R2408152-003A	Mo (202.032 nm)	0.4471	2.92	4766.3477
	R2408152-003A	Na (588.995 nm)	19.3090	0.56	261585.6276
	R2408152-003A	Ni (230.299 nm)	0.4719	0.25	6060.3538
	R2408152-003A	Pb (220.353 nm)	0.4934	0.32	2454.9185
	R2408152-003A	Sb (217.582 nm)	0.4605	1.81	1067.7868
	R2408152-003A	Se (196.026 nm)	0.9793	0.87	724.3619
	R2408152-003A	Si (252.851 nm)	1.0532	0.48	6717.4810
	R2408152-003A	Sn (189.925 nm)	4.4619	0.89	11503.7703
	R2408152-003A	Sr (216.596 nm)	1.9379	0.22	36394.8762
	R2408152-003A	Ti (336.122 nm)	0.4749	0.20	70670.3840
	R2408152-003A	Tl (190.794 nm)	1.9184	0.16	1729.7986
	R2408152-003A	V (292.401 nm)	0.4702	0.23	16990.3614
	R2408152-003A	Y (360.074 nm)	1.03	0.43	672527.37
	R2408152-003A	Y_R (360.074 nm)	1.03	0.43	672689.02
	R2408152-003A	Zn (213.857 nm)	0.5011	0.19	29620.5489
9/6/2024 19:38:51	R2408152-003L 5X	Ag (328.068 nm)	0.0000 u	> 100.00	16.4974
	R2408152-003L 5X	Al (237.312 nm)	0.0018	> 100.00	-6.4218
	R2408152-003L 5X	As (188.980 nm)	0.0011	59.94	-2.0850
	R2408152-003L 5X	B (249.772 nm)	0.0002	29.36	122.9524
	R2408152-003L 5X	Ba (230.424 nm)	0.0012	14.18	83.8241
	R2408152-003L 5X	Be (313.107 nm)	0.0000 u	> 100.00	-12.3928
	R2408152-003L 5X	Ca (317.933 nm)	1.8447	0.19	72030.7284
	R2408152-003L 5X	Cd (214.439 nm)	0.0000	> 100.00	10.9539
	R2408152-003L 5X	Co (230.786 nm)	0.0002 u	> 100.00	4.8944
	R2408152-003L 5X	Cr (267.716 nm)	0.0002	41.25	18.3328
	R2408152-003L 5X	Cu (327.395 nm)	0.0000 u	> 100.00	1.7112
	R2408152-003L 5X	Fe (234.350 nm)	0.0109	8.87	314.5743
	R2408152-003L 5X	K (766.491 nm)	0.0509	47.51	830.5829
	R2408152-003L 5X	Mg (279.078 nm)	0.1089	0.67	434.3257
	R2408152-003L 5X	Mn (257.610 nm)	0.0040	1.25	1377.2317
	R2408152-003L 5X	Mo (202.032 nm)	0.0081	18.52	92.0747
	R2408152-003L 5X	Na (588.995 nm)	0.1297	5.76	-11082.1738
	R2408152-003L 5X	Ni (230.299 nm)	0.0006	53.11	11.0747
	R2408152-003L 5X	Pb (220.353 nm)	-0.0008 u	51.66	-4.3376
	R2408152-003L 5X	Sb (217.582 nm)	0.0114	43.78	30.6844
	R2408152-003L 5X	Se (196.026 nm)	0.0062	50.06	7.0877
	R2408152-003L 5X	Si (252.851 nm)	0.1571	1.52	1062.6733
	R2408152-003L 5X	Sn (189.925 nm)	0.1070	35.65	280.1836
	R2408152-003L 5X	Sr (216.596 nm)	0.0072	3.64	140.6528
	R2408152-003L 5X	Ti (336.122 nm)	0.0044	35.36	721.1657
	R2408152-003L 5X	Tl (190.794 nm)	-0.0005 u	> 100.00	-1.3924
	R2408152-003L 5X	V (292.401 nm)	0.0002 u	> 100.00	15.1999
	R2408152-003L 5X	Y (360.074 nm)	1.04	0.26	683063.20
	R2408152-003L 5X	Y_R (360.074 nm)	1.04	0.26	683224.21
	R2408152-003L 5X	Zn (213.857 nm)	0.0005	21.15	40.5247
9/6/2024 19:41:55	R2408152-005	Ag (328.068 nm)	0.0000 u	> 100.00	17.8918

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408152-005	Al (237.312 nm)	0.1202	0.45	300.4817
	R2408152-005	As (188.980 nm)	0.0015	54.71	-1.4214
	R2408152-005	B (249.772 nm)	0.0018	3.32	187.4747
	R2408152-005	Ba (230.424 nm)	0.0072	0.57	450.3450
	R2408152-005	Be (313.107 nm)	0.0000	37.62	0.3253
	R2408152-005	Ca (317.933 nm)	2.2580	0.13	87383.4187
	R2408152-005	Cd (214.439 nm)	0.0000 u	> 100.00	7.2773
	R2408152-005	Co (230.786 nm)	0.0003 u	94.15	7.2609
	R2408152-005	Cr (267.716 nm)	0.0003	29.11	23.7310
	R2408152-005	Cu (327.395 nm)	0.0010	11.78	45.6226
	R2408152-005	Fe (234.350 nm)	0.4012	1.42	9052.5160
	R2408152-005	K (766.491 nm)	0.1711	35.30	975.2291
	R2408152-005	Mg (279.078 nm)	0.4658	0.14	1855.6981
	R2408152-005	Mn (257.610 nm)	0.1137	0.15	38900.9056
	R2408152-005	Mo (202.032 nm)	0.0019	22.46	26.6024
	R2408152-005	Na (588.995 nm)	2.9868	0.55	29536.2814
	R2408152-005	Ni (230.299 nm)	0.0073	4.15	96.2173
	R2408152-005	Pb (220.353 nm)	0.0006 u	> 100.00	2.3372
	R2408152-005	Sb (217.582 nm)	0.0050	53.79	15.8622
	R2408152-005	Se (196.026 nm)	0.0018 u	> 100.00	3.8297
	R2408152-005	Si (252.851 nm)	2.0116	0.19	12765.5114
	R2408152-005	Sn (189.925 nm)	0.0308	39.60	83.6281
	R2408152-005	Sr (216.596 nm)	0.0095	1.92	184.6902
	R2408152-005	Ti (336.122 nm)	0.0021	32.60	382.9537
	R2408152-005	Tl (190.794 nm)	0.0002 u	> 100.00	-0.7292
	R2408152-005	V (292.401 nm)	0.0000 u	> 100.00	10.2142
	R2408152-005	Y (360.074 nm)	1.05	0.26	689120.89
	R2408152-005	Y_R (360.074 nm)	1.05	0.26	689303.33
	R2408152-005	Zn (213.857 nm)	0.0078	0.99	471.0166
9/6/2024 19:44:58	R2408152-007	Ag (328.068 nm)	-0.0001 u	46.63	13.5027
	R2408152-007	Al (237.312 nm)	0.0467	0.64	109.9697
	R2408152-007	As (188.980 nm)	0.0003 u	> 100.00	-3.3347
	R2408152-007	B (249.772 nm)	0.0017	2.12	183.2544
	R2408152-007	Ba (230.424 nm)	0.0058	0.59	368.4816
	R2408152-007	Be (313.107 nm)	0.0000	9.93	-4.5417
	R2408152-007	Ca (317.933 nm)	2.2870	0.19	88458.0240
	R2408152-007	Cd (214.439 nm)	0.0000 u	95.55	10.1319
	R2408152-007	Co (230.786 nm)	0.0003	22.10	7.1482
	R2408152-007	Cr (267.716 nm)	0.0004	16.09	29.9118
	R2408152-007	Cu (327.395 nm)	0.0001	65.35	4.4511
	R2408152-007	Fe (234.350 nm)	0.1101	1.86	2536.9497
	R2408152-007	K (766.491 nm)	0.1910	15.22	999.1554
	R2408152-007	Mg (279.078 nm)	0.4659	0.24	1856.1091
	R2408152-007	Mn (257.610 nm)	0.0187	0.09	6402.7792
	R2408152-007	Mo (202.032 nm)	0.0010	34.08	16.8820
	R2408152-007	Na (588.995 nm)	2.9132	0.52	28489.7286
	R2408152-007	Ni (230.299 nm)	0.0046	8.22	61.7910
	R2408152-007	Pb (220.353 nm)	0.0001 u	> 100.00	-0.2005
	R2408152-007	Sb (217.582 nm)	0.0039	84.96	13.3859
	R2408152-007	Se (196.026 nm)	0.0003 u	> 100.00	2.7677
	R2408152-007	Si (252.851 nm)	1.4920	0.24	9486.7228
	R2408152-007	Sn (189.925 nm)	0.0167	42.89	47.4330
	R2408152-007	Sr (216.596 nm)	0.0096	1.37	185.2480
	R2408152-007	Ti (336.122 nm)	0.0011	37.25	240.7499
	R2408152-007	Tl (190.794 nm)	0.0009 u	> 100.00	-0.1070
	R2408152-007	V (292.401 nm)	-0.0001 u	25.11	7.1561
	R2408152-007	Y (360.074 nm)	1.05	0.46	689058.59

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408152-007	Y_R (360.074 nm)	1.05	0.46	689242.20
	R2408152-007	Zn (213.857 nm)	0.0043	0.68	266.8386
9/6/2024 19:48:02	R2408155-001	Ag (328.068 nm)	0.0000 u	> 100.00	15.2263
	R2408155-001	Al (237.312 nm)	0.0963	1.95	238.6799
	R2408155-001	As (188.980 nm)	0.0031	56.12	1.1420
	R2408155-001	B (249.772 nm)	0.0095	2.02	514.0585
	R2408155-001	Ba (230.424 nm)	0.0096	1.70	600.5435
	R2408155-001	Be (313.107 nm)	0.0000	49.15	-10.3996
	R2408155-001	Ca (317.933 nm)	23.8090	0.14	887853.9242
	R2408155-001	Cd (214.439 nm)	0.0000 u	> 100.00	7.1040
	R2408155-001	Co (230.786 nm)	0.0002 u	> 100.00	5.2998
	R2408155-001	Cr (267.716 nm)	0.0005	8.87	34.6991
	R2408155-001	Cu (327.395 nm)	0.0001	> 100.00	6.1530
	R2408155-001	Fe (234.350 nm)	0.4430	1.59	9989.5708
	R2408155-001	K (766.491 nm)	0.5923	5.15	1481.6926
	R2408155-001	Mg (279.078 nm)	5.4035	0.22	21524.3687
	R2408155-001	Mn (257.610 nm)	0.0221	0.05	7569.1424
	R2408155-001	Mo (202.032 nm)	0.0010	12.86	16.6728
	R2408155-001	Na (588.995 nm)	22.3774	0.50	305207.8358
	R2408155-001	Ni (230.299 nm)	0.0111	0.49	145.0460
	R2408155-001	Pb (220.353 nm)	0.0000 u	> 100.00	-0.5540
	R2408155-001	Sb (217.582 nm)	0.0025	66.46	10.0607
	R2408155-001	Se (196.026 nm)	-0.0013 u	59.43	1.5599
	R2408155-001	Si (252.851 nm)	3.5392	0.29	22405.7041
	R2408155-001	Sn (189.925 nm)	0.0118	36.20	34.8195
	R2408155-001	Sr (216.596 nm)	0.1126	0.55	2120.8061
	R2408155-001	Ti (336.122 nm)	0.0044	7.36	725.6670
	R2408155-001	Tl (190.794 nm)	-0.0007 u	> 100.00	-1.5840
	R2408155-001	V (292.401 nm)	0.0009	16.78	40.7931
	R2408155-001	Y (360.074 nm)	1.03	0.43	673688.07
	R2408155-001	Y_R (360.074 nm)	1.03	0.43	673855.90
	R2408155-001	Zn (213.857 nm)	0.0013	1.16	89.3282
9/6/2024 19:51:05	Continuing Calibration Verification	Ag (328.068 nm)	0.4941	2.70	29222.4245
	Continuing Calibration Verification	Al (237.312 nm)	9.5220	2.79	24668.9114
	Continuing Calibration Verification	As (188.980 nm)	0.9548	2.18	1555.1810
	Continuing Calibration Verification	B (249.772 nm)	2.2008 Q	2.50	92934.7386 Q
	Continuing Calibration Verification	Ba (230.424 nm)	9.4363	2.67	581800.8620
	Continuing Calibration Verification	Be (313.107 nm)	0.2419	2.47	283200.5579
	Continuing Calibration Verification	Ca (317.933 nm)	24.7762	2.39	923779.7900
	Continuing Calibration Verification	Cd (214.439 nm)	0.4858	2.30	29122.4614
	Continuing Calibration Verification	Co (230.786 nm)	2.4251	2.53	48966.6269
	Continuing Calibration Verification	Cr (267.716 nm)	0.4966	2.44	28415.0131
	Continuing Calibration Verification	Cu (327.395 nm)	1.2099	2.65	54561.2185
	Continuing Calibration Verification	Fe (234.350 nm)	4.8123	2.34	107808.3108
	Continuing Calibration Verification	K (766.491 nm)	24.2640	3.01	29948.1991
	Continuing Calibration Verification	Mg (279.078 nm)	24.8356	2.35	98929.2979
	Continuing Calibration Verification	Mn (257.610 nm)	0.7150	2.46	244497.1087
	Continuing Calibration Verification	Mo (202.032 nm)	2.4753	1.70	26359.6512
	Continuing Calibration Verification	Na (588.995 nm)	24.5668	3.07	336334.1301
	Continuing Calibration Verification	Ni (230.299 nm)	1.9448	2.33	24966.3861
	Continuing Calibration Verification	Pb (220.353 nm)	0.4884	2.25	2430.2638
	Continuing Calibration Verification	Sb (217.582 nm)	4.7757	2.51	11031.9038
	Continuing Calibration Verification	Se (196.026 nm)	0.4678	2.29	347.3808
	Continuing Calibration Verification	Si (252.851 nm)	9.4252	1.97	59549.9632
	Continuing Calibration Verification	Sn (189.925 nm)	4.9667	2.19	12804.8682
	Continuing Calibration Verification	Sr (216.596 nm)	2.4372	2.49	45771.3632
	Continuing Calibration Verification	Ti (336.122 nm)	2.5054	2.44	372489.6436

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	Tl (190.794 nm)	0.9766	2.63	880.1726
	Continuing Calibration Verification	V (292.401 nm)	2.4675	2.55	89117.5740
	Continuing Calibration Verification	Y (360.074 nm)	0.97	2.78	636279.53
	Continuing Calibration Verification	Y_R (360.074 nm)	0.97	2.78	636438.09
	Continuing Calibration Verification	Zn (213.857 nm)	0.9682	2.39	57225.2117
9/6/2024 19:54:09	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u	15.41	15.0883
	Continuing Calibration Blank	Al (237.312 nm)	0.0003 u	> 100.00	-10.2581
	Continuing Calibration Blank	As (188.980 nm)	0.0003 u	> 100.00	-3.4110
	Continuing Calibration Blank	B (249.772 nm)	0.0002	> 100.00	122.5915
	Continuing Calibration Blank	Ba (230.424 nm)	0.0008	13.26	57.8523
	Continuing Calibration Blank	Be (313.107 nm)	0.0000 u	93.39	-10.4421
	Continuing Calibration Blank	Ca (317.933 nm)	0.0013	4.80	3562.3870
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	8.5007
	Continuing Calibration Blank	Co (230.786 nm)	0.0004	32.12	8.6851
	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u	> 100.00	4.6023
	Continuing Calibration Blank	Cu (327.395 nm)	0.0000	84.31	1.8763
	Continuing Calibration Blank	Fe (234.350 nm)	0.0049	21.32	180.7865
	Continuing Calibration Blank	K (766.491 nm)	0.0343	57.33	810.6924
	Continuing Calibration Blank	Mg (279.078 nm)	0.0010	65.04	4.5172
	Continuing Calibration Blank	Mn (257.610 nm)	0.0001	17.36	43.2569
	Continuing Calibration Blank	Mo (202.032 nm)	0.0075	8.09	86.4428
	Continuing Calibration Blank	Na (588.995 nm)	0.0161	46.47	-12698.2632
	Continuing Calibration Blank	Ni (230.299 nm)	0.0003	47.72	6.8650
	Continuing Calibration Blank	Pb (220.353 nm)	0.0004	> 100.00	1.5819
	Continuing Calibration Blank	Sb (217.582 nm)	0.0124	7.21	32.9665
	Continuing Calibration Blank	Se (196.026 nm)	-0.0003 u	> 100.00	2.2668
	Continuing Calibration Blank	Si (252.851 nm)	0.0084	28.79	124.1693
	Continuing Calibration Blank	Sn (189.925 nm)	0.0076	47.79	23.8058
	Continuing Calibration Blank	Sr (216.596 nm)	0.0001	37.63	8.4339
	Continuing Calibration Blank	Ti (336.122 nm)	0.0079	25.10	1252.0437
	Continuing Calibration Blank	Tl (190.794 nm)	-0.0006 u	> 100.00	-1.4428
	Continuing Calibration Blank	V (292.401 nm)	0.0002 u	> 100.00	15.2878
	Continuing Calibration Blank	Y (360.074 nm)	1.04	0.22	678382.13
	Continuing Calibration Blank	Y_R (360.074 nm)	1.04	0.22	678595.75
	Continuing Calibration Blank	Zn (213.857 nm)	0.0002	16.33	19.8003
9/6/2024 19:57:13	R2408168-001	Ag (328.068 nm)	-0.0001 u	66.09	14.1479
	R2408168-001	Al (237.312 nm)	0.6906	0.75	1778.9803
	R2408168-001	As (188.980 nm)	0.0017 u	> 100.00	-1.0318
	R2408168-001	B (249.772 nm)	0.0044	4.16	297.5492
	R2408168-001	Ba (230.424 nm)	0.0423	0.39	2617.6861
	R2408168-001	Be (313.107 nm)	0.0001	8.19	66.4252
	R2408168-001	Ca (317.933 nm)	4.1504	0.24	157673.0219
	R2408168-001	Cd (214.439 nm)	0.0001	17.91	14.7543
	R2408168-001	Co (230.786 nm)	0.0007	15.84	15.1065
	R2408168-001	Cr (267.716 nm)	0.0008	3.53	53.0017
	R2408168-001	Cu (327.395 nm)	0.0007	12.42	32.3796
	R2408168-001	Fe (234.350 nm)	1.3767	1.35	30892.3623
	R2408168-001	K (766.491 nm)	0.3441	5.82	1183.2614
	R2408168-001	Mg (279.078 nm)	0.8808	0.24	3509.0060
	R2408168-001	Mn (257.610 nm)	0.3734	0.24	127693.7402
	R2408168-001	Mo (202.032 nm)	0.0018	21.43	24.9584
	R2408168-001	Na (588.995 nm)	4.1961	0.50	46728.0030
	R2408168-001	Ni (230.299 nm)	0.0107	3.26	140.0726
	R2408168-001	Pb (220.353 nm)	0.0018	30.32	8.4709
	R2408168-001	Sb (217.582 nm)	0.0020	31.28	8.8518
	R2408168-001	Se (196.026 nm)	0.0025	> 100.00	4.3593
	R2408168-001	Si (252.851 nm)	3.1014	0.49	19642.8437

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408168-001	Sn (189.925 nm)	0.0046	58.51	16.0630
	R2408168-001	Sr (216.596 nm)	0.0168	0.80	322.0659
	R2408168-001	Ti (336.122 nm)	0.0202	3.16	3073.9118
	R2408168-001	Tl (190.794 nm)	0.0003 u	> 100.00	-0.6200
	R2408168-001	V (292.401 nm)	0.0010	11.78	47.3134
	R2408168-001	Y (360.074 nm)	1.05	0.38	690619.02
	R2408168-001	Y_R (360.074 nm)	1.05	0.38	690825.69
	R2408168-001	Zn (213.857 nm)	0.0106	0.69	634.4892
9/6/2024 20:00:17	R2408168-003	Ag (328.068 nm)	0.0000 u	95.68	16.4388
	R2408168-003	Al (237.312 nm)	0.0428	2.49	99.8305
	R2408168-003	As (188.980 nm)	0.0012	48.31	-1.8795
	R2408168-003	B (249.772 nm)	0.0025	3.31	219.5124
	R2408168-003	Ba (230.424 nm)	0.0089	3.31	559.7668
	R2408168-003	Be (313.107 nm)	0.0000	> 100.00	-7.3567
	R2408168-003	Ca (317.933 nm)	5.8250	2.68	219870.0375
	R2408168-003	Cd (214.439 nm)	0.0000 u	> 100.00	8.8360
	R2408168-003	Co (230.786 nm)	0.0002	77.23	5.8909
	R2408168-003	Cr (267.716 nm)	0.0002	45.28	17.7064
	R2408168-003	Cu (327.395 nm)	0.0001 u	> 100.00	3.0807
	R2408168-003	Fe (234.350 nm)	0.0706	3.91	1651.2149
	R2408168-003	K (766.491 nm)	0.3347	5.58	1171.8611
	R2408168-003	Mg (279.078 nm)	0.9901	2.65	3944.3796
	R2408168-003	Mn (257.610 nm)	0.0072	2.83	2469.8111
	R2408168-003	Mo (202.032 nm)	0.0008	23.58	14.7230
	R2408168-003	Na (588.995 nm)	1.3610	1.49	6421.8073
	R2408168-003	Ni (230.299 nm)	0.0080	4.44	105.1968
	R2408168-003	Pb (220.353 nm)	-0.0004 u	81.85	-2.3191
	R2408168-003	Sb (217.582 nm)	0.0015 u	> 100.00	7.8775
	R2408168-003	Se (196.026 nm)	-0.0014 u	> 100.00	1.5175
	R2408168-003	Si (252.851 nm)	2.5749	2.60	16320.2178
	R2408168-003	Sn (189.925 nm)	0.0028	44.95	11.6371
	R2408168-003	Sr (216.596 nm)	0.0357	2.69	676.6399
	R2408168-003	Ti (336.122 nm)	0.0022	22.56	401.0325
	R2408168-003	Tl (190.794 nm)	-0.0018 u	66.36	-2.5136
	R2408168-003	V (292.401 nm)	0.0002	77.67	16.0176
	R2408168-003	Y (360.074 nm)	1.04	2.41	682391.89
	R2408168-003	Y_R (360.074 nm)	1.04	2.40	682577.83
	R2408168-003	Zn (213.857 nm)	0.0028	4.05	176.1256
9/6/2024 20:03:21	R2408168-005	Ag (328.068 nm)	0.0000 u	> 100.00	16.8250
	R2408168-005	Al (237.312 nm)	0.1114	1.60	277.6297
	R2408168-005	As (188.980 nm)	0.0006 u	> 100.00	-2.9315
	R2408168-005	B (249.772 nm)	0.0301	0.57	1383.3525
	R2408168-005	Ba (230.424 nm)	0.0347	0.37	2146.4556
	R2408168-005	Be (313.107 nm)	0.0000	71.02	-12.2567
	R2408168-005	Ca (317.933 nm)	51.5033	0.14	1916508.7194
	R2408168-005	Cd (214.439 nm)	0.0000 u	95.83	6.8760
	R2408168-005	Co (230.786 nm)	0.0002	88.36	6.1607
	R2408168-005	Cr (267.716 nm)	0.0003	58.83	24.4947
	R2408168-005	Cu (327.395 nm)	0.0007	23.37	32.4862
	R2408168-005	Fe (234.350 nm)	0.4474	1.38	10086.6890
	R2408168-005	K (766.491 nm)	1.8889	2.46	3040.8688
	R2408168-005	Mg (279.078 nm)	8.7367	0.06	34801.8748
	R2408168-005	Mn (257.610 nm)	0.0504	0.12	17230.3062
	R2408168-005	Mo (202.032 nm)	0.0010	37.27	16.9051
	R2408168-005	Na (588.995 nm)	53.0694	0.54	741551.2540
	R2408168-005	Ni (230.299 nm)	0.0112	2.67	146.6901
	R2408168-005	Pb (220.353 nm)	0.0004 u	> 100.00	1.5422

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408168-005	Sb (217.582 nm)	0.0013	68.55	7.2245
	R2408168-005	Se (196.026 nm)	-0.0024 u	> 100.00	0.7182
	R2408168-005	Si (252.851 nm)	3.2161	0.14	20366.4790
	R2408168-005	Sn (189.925 nm)	0.0026	45.39	10.9520
	R2408168-005	Sr (216.596 nm)	0.2246	0.12	4222.6761
	R2408168-005	Ti (336.122 nm)	0.0025	19.22	440.8409
	R2408168-005	Tl (190.794 nm)	-0.0003 u	> 100.00	-1.1670
	R2408168-005	V (292.401 nm)	0.0007	2.38	36.0156
	R2408168-005	Y (360.074 nm)	1.01	0.27	662711.73
	R2408168-005	Y_R (360.074 nm)	1.01	0.27	662875.55
	R2408168-005	Zn (213.857 nm)	0.0097	0.14	584.1101
9/6/2024 20:06:25	R2408390-001	Ag (328.068 nm)	0.0000 u	55.95	15.9781
	R2408390-001	Al (237.312 nm)	0.0010	22.72	-8.4774
	R2408390-001	As (188.980 nm)	0.0002 u	> 100.00	-3.6130
	R2408390-001	B (249.772 nm)	-0.0014 u	7.40	56.0887
	R2408390-001	Ba (230.424 nm)	0.0000	57.75	11.3664
	R2408390-001	Be (313.107 nm)	0.0000 u	> 100.00	-17.5554
	R2408390-001	Ca (317.933 nm)	0.0107	0.97	3909.7593
	R2408390-001	Cd (214.439 nm)	0.0000 u	> 100.00	6.7817
	R2408390-001	Co (230.786 nm)	0.0001 u	95.71	3.9703
	R2408390-001	Cr (267.716 nm)	0.0004	10.45	27.4754
	R2408390-001	Cu (327.395 nm)	0.0001 u	> 100.00	2.5510
	R2408390-001	Fe (234.350 nm)	0.0031	6.99	141.0634
	R2408390-001	K (766.491 nm)	-0.0361 u	85.82	725.9761
	R2408390-001	Mg (279.078 nm)	-0.0019 u	17.98	-7.3737
	R2408390-001	Mn (257.610 nm)	0.0001	0.37	47.6021
	R2408390-001	Mo (202.032 nm)	0.0004	72.28	10.1009
	R2408390-001	Na (588.995 nm)	0.0151	24.32	-12712.5338
	R2408390-001	Ni (230.299 nm)	0.0001	> 100.00	4.6729
	R2408390-001	Pb (220.353 nm)	0.0006 u	> 100.00	2.3468
	R2408390-001	Sb (217.582 nm)	0.0011	79.33	6.9158
	R2408390-001	Se (196.026 nm)	-0.0049 u	80.83	-1.0812
	R2408390-001	Si (252.851 nm)	0.0261	8.91	235.9233
	R2408390-001	Sn (189.925 nm)	0.0020	53.17	9.3815
	R2408390-001	Sr (216.596 nm)	-0.0001 u	64.16	3.9397
	R2408390-001	Ti (336.122 nm)	0.0007	42.52	170.9660
	R2408390-001	Tl (190.794 nm)	-0.0017 u	76.98	-2.4740
	R2408390-001	V (292.401 nm)	0.0000 u	> 100.00	9.7982
	R2408390-001	Y (360.074 nm)	1.06	0.33	693714.98
	R2408390-001	Y_R (360.074 nm)	1.06	0.33	693922.68
	R2408390-001	Zn (213.857 nm)	0.0025	0.54	160.0244
9/6/2024 20:09:29	R2408390-002	Ag (328.068 nm)	0.0000 u	> 100.00	15.2515
	R2408390-002	Al (237.312 nm)	0.1456	2.73	366.4361
	R2408390-002	As (188.980 nm)	0.0010	93.41	-2.3092
	R2408390-002	B (249.772 nm)	0.0015	8.51	178.4465
	R2408390-002	Ba (230.424 nm)	0.0072	3.51	449.4112
	R2408390-002	Be (313.107 nm)	0.0000	36.20	-6.8479
	R2408390-002	Ca (317.933 nm)	1.7552	1.76	68705.9403
	R2408390-002	Cd (214.439 nm)	0.0000 u	> 100.00	8.6281
	R2408390-002	Co (230.786 nm)	0.0003	55.94	6.7822
	R2408390-002	Cr (267.716 nm)	0.0003	23.70	25.3836
	R2408390-002	Cu (327.395 nm)	0.0048	2.69	214.7106
	R2408390-002	Fe (234.350 nm)	0.5458	2.93	12290.1630
	R2408390-002	K (766.491 nm)	0.1894	10.20	997.1401
	R2408390-002	Mg (279.078 nm)	0.3551	1.82	1415.0377
	R2408390-002	Mn (257.610 nm)	0.0419	1.76	14348.4041
	R2408390-002	Mo (202.032 nm)	0.0004	34.01	10.2687

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408390-002	Na (588.995 nm)	0.6553	0.04	-3610.5884
	R2408390-002	Ni (230.299 nm)	0.0050	9.46	67.0515
	R2408390-002	Pb (220.353 nm)	0.0004	91.99	1.5716
	R2408390-002	Sb (217.582 nm)	0.0008	> 100.00	6.0613
	R2408390-002	Se (196.026 nm)	0.0002 u	> 100.00	2.6773
	R2408390-002	Si (252.851 nm)	1.4864	1.93	9450.8769
	R2408390-002	Sn (189.925 nm)	0.0034	37.82	13.1973
	R2408390-002	Sr (216.596 nm)	0.0083	4.07	162.0613
	R2408390-002	Ti (336.122 nm)	0.0016	14.76	305.9097
	R2408390-002	Tl (190.794 nm)	-0.0009 u	> 100.00	-1.7483
	R2408390-002	V (292.401 nm)	0.0002	52.58	18.0682
	R2408390-002	Y (360.074 nm)	1.05	1.69	687987.28
	R2408390-002	Y_R (360.074 nm)	1.05	1.69	688187.08
	R2408390-002	Zn (213.857 nm)	0.0100	1.24	603.0644
9/6/2024 20:12:33	Continuing Calibration Verification	Ag (328.068 nm)	0.4829	0.27	28559.7440
	Continuing Calibration Verification	Al (237.312 nm)	9.2969	0.34	24085.6139
	Continuing Calibration Verification	As (188.980 nm)	0.9333	0.24	1520.1889
	Continuing Calibration Verification	B (249.772 nm)	2.1483 Q	0.18	90718.4877 Q
	Continuing Calibration Verification	Ba (230.424 nm)	9.2150	0.15	568157.7310
	Continuing Calibration Verification	Be (313.107 nm)	0.2362	0.20	276602.9858
	Continuing Calibration Verification	Ca (317.933 nm)	24.1762	0.32	901494.5223
	Continuing Calibration Verification	Cd (214.439 nm)	0.4741	0.32	28424.6403
	Continuing Calibration Verification	Co (230.786 nm)	2.3612	0.41	47674.7510
	Continuing Calibration Verification	Cr (267.716 nm)	0.4845	0.25	27721.3802
	Continuing Calibration Verification	Cu (327.395 nm)	1.1739	0.59	52938.6074
	Continuing Calibration Verification	Fe (234.350 nm)	4.6974	0.29	105236.2261
	Continuing Calibration Verification	K (766.491 nm)	23.6412	0.44	29199.2391
	Continuing Calibration Verification	Mg (279.078 nm)	24.2490	0.25	96592.7275
	Continuing Calibration Verification	Mn (257.610 nm)	0.6982	0.20	238742.6601
	Continuing Calibration Verification	Mo (202.032 nm)	2.4126	0.93	25691.9855
	Continuing Calibration Verification	Na (588.995 nm)	24.0098	0.68	328416.3170
	Continuing Calibration Verification	Ni (230.299 nm)	1.8984	0.27	24371.3443
	Continuing Calibration Verification	Pb (220.353 nm)	0.4776	0.30	2376.1303
	Continuing Calibration Verification	Sb (217.582 nm)	4.6506	0.19	10743.1793
	Continuing Calibration Verification	Se (196.026 nm)	0.4555	0.25	338.2743
	Continuing Calibration Verification	Si (252.851 nm)	9.1988	0.61	58121.6443
	Continuing Calibration Verification	Sn (189.925 nm)	4.8235	0.30	12435.7452
	Continuing Calibration Verification	Sr (216.596 nm)	2.3816	0.44	44727.0681
	Continuing Calibration Verification	Ti (336.122 nm)	2.4434	0.24	363282.5037
	Continuing Calibration Verification	Tl (190.794 nm)	0.9584	0.33	863.6867
	Continuing Calibration Verification	V (292.401 nm)	2.4092	0.20	87012.5045
	Continuing Calibration Verification	Y (360.074 nm)	0.99	0.74	649808.48
	Continuing Calibration Verification	Y_R (360.074 nm)	0.99	0.74	649982.88
	Continuing Calibration Verification	Zn (213.857 nm)	0.9437	0.40	55775.4161
9/6/2024 20:15:37	Continuing Calibration Blank	Ag (328.068 nm)	-0.0001 u	68.73	14.2937
	Continuing Calibration Blank	Al (237.312 nm)	-0.0003 u	> 100.00	-11.6892
	Continuing Calibration Blank	As (188.980 nm)	0.0026	40.17	0.3926
	Continuing Calibration Blank	B (249.772 nm)	0.0002	> 100.00	122.3421
	Continuing Calibration Blank	Ba (230.424 nm)	0.0009	8.47	64.4109
	Continuing Calibration Blank	Be (313.107 nm)	0.0000 u	> 100.00	-12.0881
	Continuing Calibration Blank	Ca (317.933 nm)	0.0018	16.93	3577.8053
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	9.9128
	Continuing Calibration Blank	Co (230.786 nm)	0.0003	17.60	7.7370
	Continuing Calibration Blank	Cr (267.716 nm)	-0.0001 u	67.03	1.6486
	Continuing Calibration Blank	Cu (327.395 nm)	0.0000 u	> 100.00	1.6673
	Continuing Calibration Blank	Fe (234.350 nm)	0.0056	20.73	196.8192
	Continuing Calibration Blank	K (766.491 nm)	0.0053 u	> 100.00	775.7863

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Mg (279.078 nm)	0.0013	26.29	5.4782
	Continuing Calibration Blank	Mn (257.610 nm)	0.0001	3.35	50.0591
	Continuing Calibration Blank	Mo (202.032 nm)	0.0077	11.26	88.1255
	Continuing Calibration Blank	Na (588.995 nm)	0.0161	22.78	-12697.4906
	Continuing Calibration Blank	Ni (230.299 nm)	0.0002 u	97.92	5.5228
	Continuing Calibration Blank	Pb (220.353 nm)	0.0004	> 100.00	1.6425
	Continuing Calibration Blank	Sb (217.582 nm)	0.0125	7.12	33.0888
	Continuing Calibration Blank	Se (196.026 nm)	-0.0008 u	> 100.00	1.9267
	Continuing Calibration Blank	Si (252.851 nm)	0.0077	29.78	119.8596
	Continuing Calibration Blank	Sn (189.925 nm)	0.0038	32.86	14.1505
	Continuing Calibration Blank	Sr (216.596 nm)	0.0001 u	> 100.00	7.6840
	Continuing Calibration Blank	Ti (336.122 nm)	0.0085	24.90	1329.9729
	Continuing Calibration Blank	Tl (190.794 nm)	-0.0005 u	3.24	-1.3537
	Continuing Calibration Blank	V (292.401 nm)	0.0001 u	> 100.00	13.5114
	Continuing Calibration Blank	Y (360.074 nm)	1.04	0.38	683811.13
	Continuing Calibration Blank	Y_R (360.074 nm)	1.04	0.38	684003.03
	Continuing Calibration Blank	Zn (213.857 nm)	0.0002	8.49	21.3724
9/6/2024 20:18:40	PBW-444183	Ag (328.068 nm)	0.0000 u	> 100.00	16.3476
	PBW-444183	Al (237.312 nm)	0.0011 u	> 100.00	-8.2546
	PBW-444183	As (188.980 nm)	0.0012	27.22	-1.8642
	PBW-444183	B (249.772 nm)	-0.0011 u	18.62	68.0371
	PBW-444183	Ba (230.424 nm)	0.0000 u	> 100.00	10.1938
	PBW-444183	Be (313.107 nm)	0.0000 u	> 100.00	-11.2165
	PBW-444183	Ca (317.933 nm)	-0.0014 u	8.53	3460.1723
	PBW-444183	Cd (214.439 nm)	0.0000 u	> 100.00	8.8108
	PBW-444183	Co (230.786 nm)	0.0001	64.15	3.2960
	PBW-444183	Cr (267.716 nm)	0.0000 u	> 100.00	2.6030
	PBW-444183	Cu (327.395 nm)	0.0001	84.16	4.2801
	PBW-444183	Fe (234.350 nm)	-0.0003 u	39.78	64.1163
	PBW-444183	K (766.491 nm)	-0.0626 u	8.40	694.1252
	PBW-444183	Mg (279.078 nm)	-0.0004 u	> 100.00	-1.0919
	PBW-444183	Mn (257.610 nm)	0.0000	> 100.00	13.2162
	PBW-444183	Mo (202.032 nm)	0.0015	28.50	21.6820
	PBW-444183	Na (588.995 nm)	0.0118	41.40	-12759.2467
	PBW-444183	Ni (230.299 nm)	0.0001 u	> 100.00	3.7692
	PBW-444183	Pb (220.353 nm)	-0.0002 u	> 100.00	-1.3491
	PBW-444183	Sb (217.582 nm)	0.0022	41.86	9.4901
	PBW-444183	Se (196.026 nm)	-0.0006 u	> 100.00	2.0944
	PBW-444183	Si (252.851 nm)	0.0174	8.82	181.0416
	PBW-444183	Sn (189.925 nm)	0.0018	40.63	8.9201
	PBW-444183	Sr (216.596 nm)	0.0000 u	> 100.00	5.7642
	PBW-444183	Ti (336.122 nm)	0.0019	38.61	356.4965
	PBW-444183	Tl (190.794 nm)	-0.0019 u	> 100.00	-2.6204
	PBW-444183	V (292.401 nm)	0.0000 u	> 100.00	9.5744
	PBW-444183	Y (360.074 nm)	1.07	0.21	699627.62
	PBW-444183	Y_R (360.074 nm)	1.07	0.21	699795.06
	PBW-444183	Zn (213.857 nm)	0.0001	83.52	13.3915
9/6/2024 20:21:44	LCSW-444183	Ag (328.068 nm)	0.0483	0.19	2873.3601
	LCSW-444183	Al (237.312 nm)	1.9072	0.47	4932.2609
	LCSW-444183	As (188.980 nm)	0.0349	4.48	53.1222
	LCSW-444183	B (249.772 nm)	0.8883	0.22	37579.5780
	LCSW-444183	Ba (230.424 nm)	1.8464	0.22	113845.3642
	LCSW-444183	Be (313.107 nm)	0.0472	0.16	55244.2335
	LCSW-444183	Ca (317.933 nm)	1.9072	0.12	74350.4731
	LCSW-444183	Cd (214.439 nm)	0.0492	0.21	2956.7167
	LCSW-444183	Co (230.786 nm)	0.4770	0.11	9632.8708
	LCSW-444183	Cr (267.716 nm)	0.1906	0.14	10906.4855

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	LCSW-444183	Cu (327.395 nm)	0.2405	0.26	10847.4317
	LCSW-444183	Fe (234.350 nm)	0.9200	0.47	20668.1204
	LCSW-444183	K (766.491 nm)	18.4870	0.48	23001.0623
	LCSW-444183	Mg (279.078 nm)	1.8904	0.18	7530.4845
	LCSW-444183	Mn (257.610 nm)	0.4605	0.13	157470.6760
	LCSW-444183	Mo (202.032 nm)	0.4272	4.48	4554.1791
	LCSW-444183	Na (588.995 nm)	18.7624	0.60	253814.7266
	LCSW-444183	Ni (230.299 nm)	0.4727	0.19	6070.3862
	LCSW-444183	Pb (220.353 nm)	0.4972	0.12	2473.6328
	LCSW-444183	Sb (217.582 nm)	0.4476	2.70	1037.9747
	LCSW-444183	Se (196.026 nm)	0.9711	0.32	718.3841
	LCSW-444183	Si (252.851 nm)	0.3119	0.67	2039.0438
	LCSW-444183	Sn (189.925 nm)	4.2636	1.26	10992.8414
	LCSW-444183	Sr (216.596 nm)	1.9141	0.02	35948.0125
	LCSW-444183	Ti (336.122 nm)	0.4645	0.51	69118.2187
	LCSW-444183	Tl (190.794 nm)	1.9229	0.77	1733.8055
	LCSW-444183	V (292.401 nm)	0.4689	0.13	16942.8329
	LCSW-444183	Y (360.074 nm)	1.04	0.36	681665.49
	LCSW-444183	Y_R (360.074 nm)	1.04	0.36	681803.77
	LCSW-444183	Zn (213.857 nm)	0.5026	0.14	29710.5432
9/6/2024 20:24:47	R2408253-001	Ag (328.068 nm)	0.0000 u	> 100.00	15.9366
	R2408253-001	Al (237.312 nm)	0.0172	15.26	33.5506
	R2408253-001	As (188.980 nm)	0.0025	49.22	0.1189
	R2408253-001	B (249.772 nm)	0.0038	2.55	274.3552
	R2408253-001	Ba (230.424 nm)	0.0262	0.16	1626.1659
	R2408253-001	Be (313.107 nm)	0.0000 u	> 100.00	-17.3350
	R2408253-001	Ca (317.933 nm)	7.2355	0.14	272261.6444
	R2408253-001	Cd (214.439 nm)	0.0000 u	> 100.00	7.5733
	R2408253-001	Co (230.786 nm)	0.0002	93.59	6.3513
	R2408253-001	Cr (267.716 nm)	0.0003	13.42	24.7955
	R2408253-001	Cu (327.395 nm)	0.0002	58.55	8.9092
	R2408253-001	Fe (234.350 nm)	0.0294	0.78	728.8330
	R2408253-001	K (766.491 nm)	0.2661	6.80	1089.4295
	R2408253-001	Mg (279.078 nm)	1.2536	0.12	4993.7510
	R2408253-001	Mn (257.610 nm)	0.0095	0.33	3271.7398
	R2408253-001	Mo (202.032 nm)	0.0076	15.10	87.2475
	R2408253-001	Na (588.995 nm)	8.2356	0.68	104158.0053
	R2408253-001	Ni (230.299 nm)	0.0044	2.20	59.9364
	R2408253-001	Pb (220.353 nm)	0.0004 u	> 100.00	1.4626
	R2408253-001	Sb (217.582 nm)	0.0073	34.16	21.2216
	R2408253-001	Se (196.026 nm)	0.0053	43.69	6.4025
	R2408253-001	Si (252.851 nm)	1.4156	0.24	9004.5894
	R2408253-001	Sn (189.925 nm)	0.0828	27.38	217.6973
	R2408253-001	Sr (216.596 nm)	0.0237	1.63	450.8035
	R2408253-001	Ti (336.122 nm)	0.0039	32.15	649.2920
	R2408253-001	Tl (190.794 nm)	0.0004 u	> 100.00	-0.5416
	R2408253-001	V (292.401 nm)	0.0001 u	> 100.00	12.0507
	R2408253-001	Y (360.074 nm)	1.06	0.32	691400.72
	R2408253-001	Y_R (360.074 nm)	1.06	0.33	691553.26
	R2408253-001	Zn (213.857 nm)	0.0024	0.85	149.5787
9/6/2024 20:27:51	R2408253-001S	Ag (328.068 nm)	0.0498	2.38	2961.7934
	R2408253-001S	Al (237.312 nm)	2.0137	1.91	5208.3529
	R2408253-001S	As (188.980 nm)	0.0373	2.66	57.0573
	R2408253-001S	B (249.772 nm)	0.9335	2.22	39485.4388
	R2408253-001S	Ba (230.424 nm)	1.9567	2.37	120645.5816
	R2408253-001S	Be (313.107 nm)	0.0497	2.27	58194.0179
	R2408253-001S	Ca (317.933 nm)	9.2332	2.39	346463.5517

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408253-001S	Cd (214.439 nm)	0.0509	2.24	3059.0208
	R2408253-001S	Co (230.786 nm)	0.4981	2.29	10058.0668
	R2408253-001S	Cr (267.716 nm)	0.2003	2.34	11463.7507
	R2408253-001S	Cu (327.395 nm)	0.2536	2.09	11435.3776
	R2408253-001S	Fe (234.350 nm)	0.9997	2.42	22451.6889
	R2408253-001S	K (766.491 nm)	19.8086	2.25	24590.3783
	R2408253-001S	Mg (279.078 nm)	3.2204	2.27	12828.1832
	R2408253-001S	Mn (257.610 nm)	0.4930	2.32	168589.2437
	R2408253-001S	Mo (202.032 nm)	0.4549	6.02	4849.7276
	R2408253-001S	Na (588.995 nm)	27.8718	1.19	383321.8239
	R2408253-001S	Ni (230.299 nm)	0.4990	2.43	6408.2226
	R2408253-001S	Pb (220.353 nm)	0.5165	2.35	2569.6444
	R2408253-001S	Sb (217.582 nm)	0.4766	1.93	1104.9023
	R2408253-001S	Se (196.026 nm)	1.0145	3.09	750.3382
	R2408253-001S	Si (252.851 nm)	1.7804	2.08	11306.7829
	R2408253-001S	Sn (189.925 nm)	4.5846	2.66	11819.9501
	R2408253-001S	Sr (216.596 nm)	2.0206	2.47	37947.8296
	R2408253-001S	Ti (336.122 nm)	0.4922	2.57	73240.4407
	R2408253-001S	Tl (190.794 nm)	1.9963	2.46	1800.0671
	R2408253-001S	V (292.401 nm)	0.4930	2.35	17813.3267
	R2408253-001S	Y (360.074 nm)	1.02	1.81	670568.46
	R2408253-001S	Y_R (360.074 nm)	1.02	1.81	670743.63
	R2408253-001S	Zn (213.857 nm)	0.5271	2.39	31157.7938
9/6/2024 20:30:54	R2408253-001SD	Ag (328.068 nm)	0.0485	0.64	2882.3604
	R2408253-001SD	Al (237.312 nm)	1.9477	0.34	5037.2671
	R2408253-001SD	As (188.980 nm)	0.0351	2.57	53.4302
	R2408253-001SD	B (249.772 nm)	0.9079	0.20	38403.2782
	R2408253-001SD	Ba (230.424 nm)	1.8909	0.18	116593.0057
	R2408253-001SD	Be (313.107 nm)	0.0481	0.25	56304.3277
	R2408253-001SD	Ca (317.933 nm)	8.9464	0.17	335811.6080
	R2408253-001SD	Cd (214.439 nm)	0.0493	0.31	2962.1237
	R2408253-001SD	Co (230.786 nm)	0.4821	0.31	9735.8088
	R2408253-001SD	Cr (267.716 nm)	0.1937	0.23	11088.1962
	R2408253-001SD	Cu (327.395 nm)	0.2456	0.31	11073.4667
	R2408253-001SD	Fe (234.350 nm)	0.9706	0.49	21801.1025
	R2408253-001SD	K (766.491 nm)	19.2728	0.34	23946.0552
	R2408253-001SD	Mg (279.078 nm)	3.1184	0.13	12422.1370
	R2408253-001SD	Mn (257.610 nm)	0.4771	0.23	163146.1670
	R2408253-001SD	Mo (202.032 nm)	0.4490	3.07	4786.6197
	R2408253-001SD	Na (588.995 nm)	27.1344	0.51	372837.7328
	R2408253-001SD	Ni (230.299 nm)	0.4816	0.18	6184.8722
	R2408253-001SD	Pb (220.353 nm)	0.5010	0.29	2492.7453
	R2408253-001SD	Sb (217.582 nm)	0.4675	2.05	1083.8865
	R2408253-001SD	Se (196.026 nm)	0.9859	1.09	729.2836
	R2408253-001SD	Si (252.851 nm)	1.7348	0.33	11018.7562
	R2408253-001SD	Sn (189.925 nm)	4.5250	0.46	11666.4544
	R2408253-001SD	Sr (216.596 nm)	1.9464	0.12	36555.6869
	R2408253-001SD	Ti (336.122 nm)	0.4783	0.05	71166.4253
	R2408253-001SD	Tl (190.794 nm)	1.9365	0.52	1746.1479
	R2408253-001SD	V (292.401 nm)	0.4782	0.20	17280.2293
	R2408253-001SD	Y (360.074 nm)	1.04	0.43	678427.01
	R2408253-001SD	Y_R (360.074 nm)	1.04	0.43	678572.25
	R2408253-001SD	Zn (213.857 nm)	0.5099	0.26	30141.6582
9/6/2024 20:33:58	R2408253-001A	Ag (328.068 nm)	0.0467	0.29	2774.9214
	R2408253-001A	Al (237.312 nm)	1.8690	0.32	4833.1967
	R2408253-001A	As (188.980 nm)	0.0351	0.75	53.4263
	R2408253-001A	B (249.772 nm)	0.8726	0.17	36915.2203

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408253-001A	Ba (230.424 nm)	1.8148	0.20	111899.2704
	R2408253-001A	Be (313.107 nm)	0.0461	0.18	53961.1544
	R2408253-001A	Ca (317.933 nm)	8.5888	0.07	322526.9277
	R2408253-001A	Cd (214.439 nm)	0.0474	0.20	2847.2759
	R2408253-001A	Co (230.786 nm)	0.4625	0.07	9338.7231
	R2408253-001A	Cr (267.716 nm)	0.1855	0.05	10617.9163
	R2408253-001A	Cu (327.395 nm)	0.2351	0.35	10601.5360
	R2408253-001A	Fe (234.350 nm)	0.9291	0.51	20871.7256
	R2408253-001A	K (766.491 nm)	18.5158	0.20	23035.7234
	R2408253-001A	Mg (279.078 nm)	2.9936	0.03	11924.8074
	R2408253-001A	Mn (257.610 nm)	0.4576	0.13	156472.2519
	R2408253-001A	Mo (202.032 nm)	0.4344	3.29	4630.5448
	R2408253-001A	Na (588.995 nm)	26.0786	0.56	357827.3740
	R2408253-001A	Ni (230.299 nm)	0.4615	0.16	5926.6672
	R2408253-001A	Pb (220.353 nm)	0.4783	0.32	2379.9035
	R2408253-001A	Sb (217.582 nm)	0.4542	1.54	1053.0351
	R2408253-001A	Se (196.026 nm)	0.9566	0.32	707.6590
	R2408253-001A	Si (252.851 nm)	1.6655	0.27	10581.5493
	R2408253-001A	Sn (189.925 nm)	4.3572	0.75	11233.9930
	R2408253-001A	Sr (216.596 nm)	1.8833	0.02	35371.1192
	R2408253-001A	Ti (336.122 nm)	0.4632	0.15	68925.5166
	R2408253-001A	Tl (190.794 nm)	1.8610	0.20	1678.0308
	R2408253-001A	V (292.401 nm)	0.4580	0.17	16550.3048
	R2408253-001A	Y (360.074 nm)	1.04	0.25	679935.14
	R2408253-001A	Y_R (360.074 nm)	1.04	0.25	680074.91
	R2408253-001A	Zn (213.857 nm)	0.4889	0.23	28903.3099
9/6/2024 20:37:01	R2408253-001L 5X	Ag (328.068 nm)	0.0000 u	> 100.00	17.6864
	R2408253-001L 5X	Al (237.312 nm)	0.0032	60.58	-2.8234
	R2408253-001L 5X	As (188.980 nm)	0.0008 u	> 100.00	-2.5550
	R2408253-001L 5X	B (249.772 nm)	0.0006	34.30	140.8829
	R2408253-001L 5X	Ba (230.424 nm)	0.0054	2.72	339.7612
	R2408253-001L 5X	Be (313.107 nm)	0.0000 u	> 100.00	-12.6243
	R2408253-001L 5X	Ca (317.933 nm)	1.4811	3.60	58524.5239
	R2408253-001L 5X	Cd (214.439 nm)	0.0000 u	> 100.00	8.3524
	R2408253-001L 5X	Co (230.786 nm)	0.0002	86.61	5.7141
	R2408253-001L 5X	Cr (267.716 nm)	0.0001	49.67	12.3799
	R2408253-001L 5X	Cu (327.395 nm)	0.0001	62.16	4.7840
	R2408253-001L 5X	Fe (234.350 nm)	0.0080	6.09	249.5993
	R2408253-001L 5X	K (766.491 nm)	0.0590	51.49	840.3569
	R2408253-001L 5X	Mg (279.078 nm)	0.2582	3.22	1028.9657
	R2408253-001L 5X	Mn (257.610 nm)	0.0020	3.61	695.4712
	R2408253-001L 5X	Mo (202.032 nm)	0.0078	19.15	88.7253
	R2408253-001L 5X	Na (588.995 nm)	1.6564	2.23	10622.1777
	R2408253-001L 5X	Ni (230.299 nm)	0.0010	48.33	16.2247
	R2408253-001L 5X	Pb (220.353 nm)	0.0003	> 100.00	0.7135
	R2408253-001L 5X	Sb (217.582 nm)	0.0134	43.16	35.2216
	R2408253-001L 5X	Se (196.026 nm)	0.0090	16.03	9.1629
	R2408253-001L 5X	Si (252.851 nm)	0.2974	2.84	1947.5905
	R2408253-001L 5X	Sn (189.925 nm)	0.1083	33.89	283.3945
	R2408253-001L 5X	Sr (216.596 nm)	0.0048	1.81	96.4550
	R2408253-001L 5X	Ti (336.122 nm)	0.0039	30.22	645.5995
	R2408253-001L 5X	Tl (190.794 nm)	0.0005 u	> 100.00	-0.4271
	R2408253-001L 5X	V (292.401 nm)	0.0001	69.35	13.6459
	R2408253-001L 5X	Y (360.074 nm)	1.03	3.27	673877.29
	R2408253-001L 5X	Y_R (360.074 nm)	1.03	3.27	674052.32
	R2408253-001L 5X	Zn (213.857 nm)	0.0005	9.42	38.1135
9/6/2024 20:40:05	R2408253-003	Ag (328.068 nm)	0.0000 u	> 100.00	18.8579

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408253-003	Al (237.312 nm)	0.0228	6.68	48.1463
	R2408253-003	As (188.980 nm)	0.0026	39.28	0.4039
	R2408253-003	B (249.772 nm)	0.0274	0.75	1269.2818
	R2408253-003	Ba (230.424 nm)	0.0536	0.06	3315.4204
	R2408253-003	Be (313.107 nm)	0.0000 u	> 100.00	-12.1581
	R2408253-003	Ca (317.933 nm)	14.9524	0.10	558891.3114
	R2408253-003	Cd (214.439 nm)	0.0000 u	> 100.00	9.7350
	R2408253-003	Co (230.786 nm)	0.0003 u	98.03	7.9650
	R2408253-003	Cr (267.716 nm)	0.0003	11.11	23.6706
	R2408253-003	Cu (327.395 nm)	0.0019	4.32	84.3877
	R2408253-003	Fe (234.350 nm)	0.1799	1.49	4098.6301
	R2408253-003	K (766.491 nm)	3.5546	0.70	5044.0493
	R2408253-003	Mg (279.078 nm)	2.6552	0.09	10576.8112
	R2408253-003	Mn (257.610 nm)	0.0660	0.16	22589.5197
	R2408253-003	Mo (202.032 nm)	0.0021	36.03	28.3461
	R2408253-003	Na (588.995 nm)	46.7478	0.40	651678.4248
	R2408253-003	Ni (230.299 nm)	0.0032	11.99	43.8797
	R2408253-003	Pb (220.353 nm)	0.0001 u	> 100.00	0.2132
	R2408253-003	Sb (217.582 nm)	0.0060	31.98	18.1261
	R2408253-003	Se (196.026 nm)	0.0010 u	> 100.00	3.2824
	R2408253-003	Si (252.851 nm)	0.6421	0.13	4122.8501
	R2408253-003	Sn (189.925 nm)	0.0311	40.59	84.4733
	R2408253-003	Sr (216.596 nm)	0.1818	0.29	3419.6817
	R2408253-003	Ti (336.122 nm)	0.0015	52.52	288.5168
	R2408253-003	Tl (190.794 nm)	-0.0005 u	> 100.00	-1.4012
	R2408253-003	V (292.401 nm)	0.0003	84.70	20.2106
	R2408253-003	Y (360.074 nm)	1.03	0.36	676804.54
	R2408253-003	Y_R (360.074 nm)	1.03	0.36	676975.51
	R2408253-003	Zn (213.857 nm)	0.0053	1.48	324.3341
9/6/2024 20:43:08	R2408253-005	Ag (328.068 nm)	0.0001 u	> 100.00	22.0238
	R2408253-005	Al (237.312 nm)	0.0279	3.11	61.2286
	R2408253-005	As (188.980 nm)	0.0016	82.05	-1.2526
	R2408253-005	B (249.772 nm)	0.0037	1.32	271.2668
	R2408253-005	Ba (230.424 nm)	0.0291	0.40	1801.9198
	R2408253-005	Be (313.107 nm)	0.0000	37.53	-9.0295
	R2408253-005	Ca (317.933 nm)	2.7568	0.18	105909.1925
	R2408253-005	Cd (214.439 nm)	0.0000 u	> 100.00	9.2136
	R2408253-005	Co (230.786 nm)	0.0000 u	> 100.00	0.8247
	R2408253-005	Cr (267.716 nm)	0.0003	22.35	20.0930
	R2408253-005	Cu (327.395 nm)	0.0005	53.22	21.0372
	R2408253-005	Fe (234.350 nm)	0.0681	1.52	1596.1056
	R2408253-005	K (766.491 nm)	0.4811	4.31	1347.9840
	R2408253-005	Mg (279.078 nm)	0.5955	0.23	2372.6042
	R2408253-005	Mn (257.610 nm)	0.0201	0.30	6896.1099
	R2408253-005	Mo (202.032 nm)	0.0011	37.68	18.3947
	R2408253-005	Na (588.995 nm)	4.4591	0.67	50466.9757
	R2408253-005	Ni (230.299 nm)	0.0021	8.18	29.4466
	R2408253-005	Pb (220.353 nm)	-0.0008 u	> 100.00	-4.4748
	R2408253-005	Sb (217.582 nm)	0.0034	9.86	12.1785
	R2408253-005	Se (196.026 nm)	0.0016 u	> 100.00	3.6626
	R2408253-005	Si (252.851 nm)	0.4902	0.17	3164.1563
	R2408253-005	Sn (189.925 nm)	0.0174	39.81	49.2032
	R2408253-005	Sr (216.596 nm)	0.0208	0.95	395.9708
	R2408253-005	Ti (336.122 nm)	0.0009	37.94	210.6955
	R2408253-005	Tl (190.794 nm)	0.0005 u	> 100.00	-0.4609
	R2408253-005	V (292.401 nm)	0.0000 u	> 100.00	8.0058
	R2408253-005	Y (360.074 nm)	1.06	0.28	694629.12

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408253-005	Y_R (360.074 nm)	1.06	0.28	694838.19
	R2408253-005	Zn (213.857 nm)	0.0040	0.12	246.7635
9/6/2024 20:46:12	R2408253-007	Ag (328.068 nm)	0.0000 u	> 100.00	15.2468
	R2408253-007	Al (237.312 nm)	0.0338	2.76	76.6142
	R2408253-007	As (188.980 nm)	0.0006	37.49	-2.9257
	R2408253-007	B (249.772 nm)	0.0060	5.64	366.6356
	R2408253-007	Ba (230.424 nm)	0.0371	2.43	2294.5823
	R2408253-007	Be (313.107 nm)	0.0000 u	> 100.00	-18.0783
	R2408253-007	Ca (317.933 nm)	3.6536	2.54	139220.6663
	R2408253-007	Cd (214.439 nm)	0.0000 u	94.18	9.8566
	R2408253-007	Co (230.786 nm)	0.0000 u	> 100.00	1.9663
	R2408253-007	Cr (267.716 nm)	0.0005	24.86	33.1893
	R2408253-007	Cu (327.395 nm)	0.0010	27.91	45.4811
	R2408253-007	Fe (234.350 nm)	0.0875	4.07	2029.5952
	R2408253-007	K (766.491 nm)	0.9052	9.36	1857.9283
	R2408253-007	Mg (279.078 nm)	0.7441	2.62	2964.4920
	R2408253-007	Mn (257.610 nm)	0.0229	2.55	7826.9818
	R2408253-007	Mo (202.032 nm)	0.0006	35.81	12.6872
	R2408253-007	Na (588.995 nm)	7.6662	2.48	96062.6887
	R2408253-007	Ni (230.299 nm)	0.0020	9.78	28.5749
	R2408253-007	Pb (220.353 nm)	-0.0005 u	> 100.00	-2.9140
	R2408253-007	Sb (217.582 nm)	0.0014	57.52	7.6529
	R2408253-007	Se (196.026 nm)	-0.0026 u	90.80	0.5750
	R2408253-007	Si (252.851 nm)	0.5018	2.39	3237.7069
	R2408253-007	Sn (189.925 nm)	0.0113	37.54	33.4716
	R2408253-007	Sr (216.596 nm)	0.0316	2.75	598.7869
	R2408253-007	Ti (336.122 nm)	0.0008	37.84	191.3977
	R2408253-007	Tl (190.794 nm)	-0.0002 u	> 100.00	-1.0604
	R2408253-007	V (292.401 nm)	0.0001	57.30	14.2001
	R2408253-007	Y (360.074 nm)	1.04	2.25	682085.66
	R2408253-007	Y_R (360.074 nm)	1.04	2.25	682290.84
	R2408253-007	Zn (213.857 nm)	0.0034	2.27	209.7102
9/6/2024 20:49:16	Continuing Calibration Verification1	Ag (328.068 nm)	0.4845	0.17	28651.0903
	Continuing Calibration Verification1	Al (237.312 nm)	9.2947	0.30	24079.9683
	Continuing Calibration Verification1	As (188.980 nm)	0.9341	0.42	1521.4163
	Continuing Calibration Verification1	B (249.772 nm)	2.1525 Q	0.03	90896.6099 Q
	Continuing Calibration Verification1	Ba (230.424 nm)	9.2518	0.23	570427.5453
	Continuing Calibration Verification1	Be (313.107 nm)	0.2368	0.11	277230.9376
	Continuing Calibration Verification1	Ca (317.933 nm)	24.2566	0.24	904479.6354
	Continuing Calibration Verification1	Cd (214.439 nm)	0.4755	0.30	28506.3994
	Continuing Calibration Verification1	Co (230.786 nm)	2.3650	0.10	47752.5465
	Continuing Calibration Verification1	Cr (267.716 nm)	0.4859	0.17	27803.4267
	Continuing Calibration Verification1	Cu (327.395 nm)	1.1786	0.64	53149.9590
	Continuing Calibration Verification1	Fe (234.350 nm)	4.7057	0.19	105422.1714
	Continuing Calibration Verification1	K (766.491 nm)	23.6291	0.31	29184.7345
	Continuing Calibration Verification1	Mg (279.078 nm)	24.3358	0.20	96938.5984
	Continuing Calibration Verification1	Mn (257.610 nm)	0.6996	0.06	239234.3538
	Continuing Calibration Verification1	Mo (202.032 nm)	2.4239	1.00	25811.8675
	Continuing Calibration Verification1	Na (588.995 nm)	24.0539	0.62	329042.4904
	Continuing Calibration Verification1	Ni (230.299 nm)	1.9040	0.15	24443.8630
	Continuing Calibration Verification1	Pb (220.353 nm)	0.4779	0.24	2377.9739
	Continuing Calibration Verification1	Sb (217.582 nm)	4.6686	0.13	10784.7461
	Continuing Calibration Verification1	Se (196.026 nm)	0.4599	0.52	341.5499
	Continuing Calibration Verification1	Si (252.851 nm)	9.2071	0.56	58173.6953
	Continuing Calibration Verification1	Sn (189.925 nm)	4.8571	0.42	12522.4006
	Continuing Calibration Verification1	Sr (216.596 nm)	2.3820	0.08	44734.0767
	Continuing Calibration Verification1	Ti (336.122 nm)	2.4538	0.21	364821.6664

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification1	Tl (190.794 nm)	0.9572	0.58	862.6564
	Continuing Calibration Verification1	V (292.401 nm)	2.4142	0.09	87195.6360
	Continuing Calibration Verification1	Y (360.074 nm)	1.00	0.74	652603.40
	Continuing Calibration Verification1	Y_R (360.074 nm)	1.00	0.74	652816.03
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9464	0.29	55933.5923
9/6/2024 20:52:21	Continuing Calibration Blank1	Ag (328.068 nm)	0.0000 u	73.20	15.3737
	Continuing Calibration Blank1	Al (237.312 nm)	0.0007	59.00	-9.2305
	Continuing Calibration Blank1	As (188.980 nm)	0.0012 u	> 100.00	-1.8615
	Continuing Calibration Blank1	B (249.772 nm)	0.0001 u	> 100.00	117.7360
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0002	36.09	21.3161
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000	88.88	-6.5521
	Continuing Calibration Blank1	Ca (317.933 nm)	-0.0002 u	42.63	3506.2193
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000	> 100.00	9.1160
	Continuing Calibration Blank1	Co (230.786 nm)	0.0002	52.49	5.0673
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0000 u	> 100.00	7.4190
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0001 u	> 100.00	2.4558
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0041	18.26	163.5514
	Continuing Calibration Blank1	K (766.491 nm)	0.0113 u	> 100.00	782.9541
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0007	41.30	3.3175
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0000	34.26	21.8604
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0070	11.54	80.1990
	Continuing Calibration Blank1	Na (588.995 nm)	0.0168	26.26	-12687.3722
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0000 u	> 100.00	2.8840
	Continuing Calibration Blank1	Pb (220.353 nm)	0.0003 u	> 100.00	0.7878
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0124	4.82	32.8916
	Continuing Calibration Blank1	Se (196.026 nm)	0.0026	88.26	4.4545
	Continuing Calibration Blank1	Si (252.851 nm)	0.0067	20.01	112.9287
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0081	38.38	25.1259
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0000 u	> 100.00	5.2399
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0072	25.07	1150.0436
	Continuing Calibration Blank1	Tl (190.794 nm)	-0.0012 u	> 100.00	-2.0427
	Continuing Calibration Blank1	V (292.401 nm)	-0.0001 u	49.49	7.7615
	Continuing Calibration Blank1	Y (360.074 nm)	1.05	0.36	688935.44
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.05	0.35	689113.64
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0001	31.10	13.8634
9/6/2024 20:55:25	R2408253-009	Ag (328.068 nm)	0.0000 u	4.81	16.2279
	R2408253-009	Al (237.312 nm)	0.0179	2.19	35.3143
	R2408253-009	As (188.980 nm)	0.0025	44.43	0.1248
	R2408253-009	B (249.772 nm)	0.0195	2.54	935.3087
	R2408253-009	Ba (230.424 nm)	0.0751	1.94	4641.1048
	R2408253-009	Be (313.107 nm)	0.0000	13.69	-9.9370
	R2408253-009	Ca (317.933 nm)	14.1298	2.05	528336.9659
	R2408253-009	Cd (214.439 nm)	0.0000	51.03	10.0688
	R2408253-009	Co (230.786 nm)	0.0002 u	> 100.00	5.2579
	R2408253-009	Cr (267.716 nm)	0.0004	15.47	27.7845
	R2408253-009	Cu (327.395 nm)	0.0015	14.98	65.5534
	R2408253-009	Fe (234.350 nm)	0.0665	3.47	1559.8028
	R2408253-009	K (766.491 nm)	2.5028	4.20	3779.2061
	R2408253-009	Mg (279.078 nm)	2.2980	1.95	9154.1359
	R2408253-009	Mn (257.610 nm)	0.0232	2.01	7926.5845
	R2408253-009	Mo (202.032 nm)	0.0016	22.89	23.6026
	R2408253-009	Na (588.995 nm)	44.4854	2.41	619513.9235
	R2408253-009	Ni (230.299 nm)	0.0023	9.38	32.8802
	R2408253-009	Pb (220.353 nm)	0.0005 u	> 100.00	2.1293
	R2408253-009	Sb (217.582 nm)	0.0028	37.23	10.7081
	R2408253-009	Se (196.026 nm)	-0.0025 u	> 100.00	0.6615
	R2408253-009	Si (252.851 nm)	0.5536	1.99	3564.7114

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408253-009	Sn (189.925 nm)	0.0044	62.98	15.7420
	R2408253-009	Sr (216.596 nm)	0.1002	1.79	1886.5256
	R2408253-009	Ti (336.122 nm)	0.0020	34.93	368.9608
	R2408253-009	Tl (190.794 nm)	0.0004 u	> 100.00	-0.5742
	R2408253-009	V (292.401 nm)	0.0002	51.15	16.6100
	R2408253-009	Y (360.074 nm)	1.03	1.71	673099.09
	R2408253-009	Y_R (360.074 nm)	1.03	1.71	673235.41
	R2408253-009	Zn (213.857 nm)	0.0047	0.87	290.6218
9/6/2024 20:58:29	R2408253-011	Ag (328.068 nm)	0.0000 u	> 100.00	16.6675
	R2408253-011	Al (237.312 nm)	0.0348	1.09	79.2150
	R2408253-011	As (188.980 nm)	0.0011 u	> 100.00	-2.0768
	R2408253-011	B (249.772 nm)	0.0032	2.06	248.3431
	R2408253-011	Ba (230.424 nm)	0.0700	0.12	4322.0318
	R2408253-011	Be (313.107 nm)	0.0000 u	93.64	-8.1265
	R2408253-011	Ca (317.933 nm)	5.9510	0.21	224552.0257
	R2408253-011	Cd (214.439 nm)	0.0000 u	> 100.00	8.7911
	R2408253-011	Co (230.786 nm)	0.0002	91.24	4.9865
	R2408253-011	Cr (267.716 nm)	0.0002	15.07	18.5392
	R2408253-011	Cu (327.395 nm)	0.0001 u	> 100.00	6.5614
	R2408253-011	Fe (234.350 nm)	0.1623	1.54	3705.5975
	R2408253-011	K (766.491 nm)	0.6014	6.19	1492.6852
	R2408253-011	Mg (279.078 nm)	1.3273	0.22	5287.3179
	R2408253-011	Mn (257.610 nm)	0.0401	0.07	13731.6717
	R2408253-011	Mo (202.032 nm)	0.0007	41.51	13.8853
	R2408253-011	Na (588.995 nm)	10.3023	0.33	133539.0238
	R2408253-011	Ni (230.299 nm)	0.0048	7.40	64.2142
	R2408253-011	Pb (220.353 nm)	0.0005 u	> 100.00	1.8977
	R2408253-011	Sb (217.582 nm)	0.0008	66.76	6.0850
	R2408253-011	Se (196.026 nm)	-0.0017 u	> 100.00	1.2311
	R2408253-011	Si (252.851 nm)	1.4371	0.19	9140.3337
	R2408253-011	Sn (189.925 nm)	0.0040	48.06	14.5809
	R2408253-011	Sr (216.596 nm)	0.0341	0.76	646.3130
	R2408253-011	Ti (336.122 nm)	0.0012	36.16	256.2688
	R2408253-011	Tl (190.794 nm)	0.0008	72.34	-0.1686
	R2408253-011	V (292.401 nm)	0.0001 u	> 100.00	13.6822
	R2408253-011	Y (360.074 nm)	1.06	0.25	693940.17
	R2408253-011	Y_R (360.074 nm)	1.06	0.25	694113.33
	R2408253-011	Zn (213.857 nm)	0.0038	0.92	236.2784
9/6/2024 21:01:33	R2408253-013	Ag (328.068 nm)	-0.0001 u	40.19	14.4322
	R2408253-013	Al (237.312 nm)	0.0016 u	> 100.00	-6.8579
	R2408253-013	As (188.980 nm)	0.0019	37.76	-0.7984
	R2408253-013	B (249.772 nm)	-0.0013 u	3.32	58.9347
	R2408253-013	Ba (230.424 nm)	0.0001	12.54	14.1593
	R2408253-013	Be (313.107 nm)	0.0000 u	> 100.00	-16.9058
	R2408253-013	Ca (317.933 nm)	0.0068	3.41	3764.9243
	R2408253-013	Cd (214.439 nm)	0.0000 u	> 100.00	6.5654
	R2408253-013	Co (230.786 nm)	0.0001 u	> 100.00	2.6719
	R2408253-013	Cr (267.716 nm)	0.0002	57.53	16.2613
	R2408253-013	Cu (327.395 nm)	0.0001	97.48	2.7265
	R2408253-013	Fe (234.350 nm)	0.0021	3.81	119.0609
	R2408253-013	K (766.491 nm)	-0.0480 u	15.86	711.6559
	R2408253-013	Mg (279.078 nm)	-0.0007 u	38.84	-2.5148
	R2408253-013	Mn (257.610 nm)	0.0001	9.42	53.0161
	R2408253-013	Mo (202.032 nm)	0.0006	57.38	12.1489
	R2408253-013	Na (588.995 nm)	0.0190	22.20	-12656.0890
	R2408253-013	Ni (230.299 nm)	-0.0001 u	> 100.00	1.9587
	R2408253-013	Pb (220.353 nm)	-0.0005 u	35.61	-2.9110

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408253-013	Sb (217.582 nm)	0.0015 u	> 100.00	7.7848
	R2408253-013	Se (196.026 nm)	-0.0026 u	22.11	0.5799
	R2408253-013	Si (252.851 nm)	0.0207	8.96	201.5649
	R2408253-013	Sn (189.925 nm)	0.0030	53.64	11.9384
	R2408253-013	Sr (216.596 nm)	0.0001 u	> 100.00	7.3594
	R2408253-013	Ti (336.122 nm)	0.0009	41.46	203.0324
	R2408253-013	Tl (190.794 nm)	-0.0002 u	> 100.00	-1.1321
	R2408253-013	V (292.401 nm)	-0.0001 u	66.60	6.0558
	R2408253-013	Y (360.074 nm)	1.07	0.41	701719.29
	R2408253-013	Y_R (360.074 nm)	1.07	0.41	701924.04
	R2408253-013	Zn (213.857 nm)	0.0025	0.74	157.1383
9/6/2024 21:04:36	R2408253-015	Ag (328.068 nm)	0.0000 u	> 100.00	18.0794
	R2408253-015	Al (237.312 nm)	0.0371	3.08	85.1243
	R2408253-015	As (188.980 nm)	0.0001 u	> 100.00	-3.7967
	R2408253-015	B (249.772 nm)	0.0011	18.87	161.6645
	R2408253-015	Ba (230.424 nm)	0.0296	2.22	1835.3037
	R2408253-015	Be (313.107 nm)	0.0000	83.55	-12.7108
	R2408253-015	Ca (317.933 nm)	1.4999	2.72	59224.3519
	R2408253-015	Cd (214.439 nm)	0.0000 u	> 100.00	7.4572
	R2408253-015	Co (230.786 nm)	0.0001 u	> 100.00	2.9220
	R2408253-015	Cr (267.716 nm)	0.0003	10.43	25.2833
	R2408253-015	Cu (327.395 nm)	0.0001	> 100.00	5.3804
	R2408253-015	Fe (234.350 nm)	0.0091	1.85	274.4146
	R2408253-015	K (766.491 nm)	0.1424	19.80	940.6331
	R2408253-015	Mg (279.078 nm)	0.4712	2.52	1877.5143
	R2408253-015	Mn (257.610 nm)	0.0023	2.15	803.7262
	R2408253-015	Mo (202.032 nm)	0.0004	16.26	10.5733
	R2408253-015	Na (588.995 nm)	1.8631	1.18	13561.1083
	R2408253-015	Ni (230.299 nm)	0.0025	11.23	34.8586
	R2408253-015	Pb (220.353 nm)	0.0004 u	> 100.00	1.3616
	R2408253-015	Sb (217.582 nm)	0.0018	18.26	8.5686
	R2408253-015	Se (196.026 nm)	-0.0005 u	> 100.00	2.1163
	R2408253-015	Si (252.851 nm)	0.7965	2.51	5097.2613
	R2408253-015	Sn (189.925 nm)	0.0030	82.40	12.1125
	R2408253-015	Sr (216.596 nm)	0.0114	3.66	219.6512
	R2408253-015	Ti (336.122 nm)	0.0008	29.58	187.7453
	R2408253-015	Tl (190.794 nm)	-0.0001 u	> 100.00	-1.0425
	R2408253-015	V (292.401 nm)	0.0001	37.60	13.0117
	R2408253-015	Y (360.074 nm)	1.05	2.44	687803.12
	R2408253-015	Y_R (360.074 nm)	1.05	2.44	688013.93
	R2408253-015	Zn (213.857 nm)	0.0029	4.02	182.6592
9/6/2024 21:07:40	R2408253-017	Ag (328.068 nm)	-0.0001 u	19.27	13.2542
	R2408253-017	Al (237.312 nm)	0.0144	8.57	26.2721
	R2408253-017	As (188.980 nm)	0.0014 u	98.92	-1.5339
	R2408253-017	B (249.772 nm)	0.0011	16.30	159.6065
	R2408253-017	Ba (230.424 nm)	0.0275	0.64	1701.7912
	R2408253-017	Be (313.107 nm)	0.0000	10.29	-9.9604
	R2408253-017	Ca (317.933 nm)	2.7207	0.14	104569.6203
	R2408253-017	Cd (214.439 nm)	0.0000 u	> 100.00	6.6114
	R2408253-017	Co (230.786 nm)	0.0001 u	96.69	3.5760
	R2408253-017	Cr (267.716 nm)	0.0002	69.05	16.4905
	R2408253-017	Cu (327.395 nm)	0.0001 u	> 100.00	6.2010
	R2408253-017	Fe (234.350 nm)	0.0076	4.32	242.3136
	R2408253-017	K (766.491 nm)	0.1023	13.73	892.4061
	R2408253-017	Mg (279.078 nm)	0.5258	0.24	2094.6482
	R2408253-017	Mn (257.610 nm)	0.0021	0.18	715.3259
	R2408253-017	Mo (202.032 nm)	0.0000 u	> 100.00	6.6263

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408253-017	Na (588.995 nm)	1.5034	0.28	8446.2259
	R2408253-017	Ni (230.299 nm)	0.0021	10.05	30.3529
	R2408253-017	Pb (220.353 nm)	-0.0003 u	> 100.00	-1.8734
	R2408253-017	Sb (217.582 nm)	-0.0001 u	> 100.00	4.0249
	R2408253-017	Se (196.026 nm)	0.0006 u	> 100.00	2.9724
	R2408253-017	Si (252.851 nm)	0.6496	0.16	4170.3367
	R2408253-017	Sn (189.925 nm)	0.0030	50.69	12.0750
	R2408253-017	Sr (216.596 nm)	0.0147	1.00	281.7505
	R2408253-017	Ti (336.122 nm)	0.0004	42.97	129.7759
	R2408253-017	Tl (190.794 nm)	-0.0010 u	43.11	-1.8098
	R2408253-017	V (292.401 nm)	0.0001	38.88	14.7022
	R2408253-017	Y (360.074 nm)	1.07	0.41	698772.97
	R2408253-017	Y_R (360.074 nm)	1.07	0.41	698990.24
	R2408253-017	Zn (213.857 nm)	0.0013	3.43	89.7639
9/6/2024 21:10:43	R2408253-019	Ag (328.068 nm)	0.0000 u	> 100.00	18.6080
	R2408253-019	Al (237.312 nm)	0.1286	0.87	322.2513
	R2408253-019	As (188.980 nm)	0.0026	31.91	0.2776
	R2408253-019	B (249.772 nm)	0.0005	24.05	134.3389
	R2408253-019	Ba (230.424 nm)	0.0231	0.49	1432.1180
	R2408253-019	Be (313.107 nm)	0.0000	50.06	-0.2932
	R2408253-019	Ca (317.933 nm)	1.8636	0.18	72733.5395
	R2408253-019	Cd (214.439 nm)	0.0000 u	> 100.00	9.8559
	R2408253-019	Co (230.786 nm)	0.0003	85.77	7.8461
	R2408253-019	Cr (267.716 nm)	0.0005	8.17	32.1749
	R2408253-019	Cu (327.395 nm)	0.0001 u	> 100.00	4.4410
	R2408253-019	Fe (234.350 nm)	0.0349	1.43	852.8143
	R2408253-019	K (766.491 nm)	0.0826	22.48	868.6971
	R2408253-019	Mg (279.078 nm)	0.3323	0.52	1323.8989
	R2408253-019	Mn (257.610 nm)	0.0136	0.31	4652.1413
	R2408253-019	Mo (202.032 nm)	0.0001 u	> 100.00	7.1447
	R2408253-019	Na (588.995 nm)	1.5257	0.34	8764.1837
	R2408253-019	Ni (230.299 nm)	0.0026	3.59	36.1136
	R2408253-019	Pb (220.353 nm)	0.0001 u	> 100.00	0.1919
	R2408253-019	Sb (217.582 nm)	0.0003 u	> 100.00	5.1275
	R2408253-019	Se (196.026 nm)	0.0001 u	> 100.00	2.6218
	R2408253-019	Si (252.851 nm)	0.7867	0.36	5035.7720
	R2408253-019	Sn (189.925 nm)	0.0027	33.68	11.3660
	R2408253-019	Sr (216.596 nm)	0.0068	0.70	134.2253
	R2408253-019	Ti (336.122 nm)	0.0004	48.77	136.6705
	R2408253-019	Tl (190.794 nm)	-0.0003 u	> 100.00	-1.1649
	R2408253-019	V (292.401 nm)	0.0001 u	> 100.00	13.9306
	R2408253-019	Y (360.074 nm)	1.07	0.48	700338.25
	R2408253-019	Y_R (360.074 nm)	1.07	0.48	700572.40
	R2408253-019	Zn (213.857 nm)	0.0022	0.85	137.5819
9/6/2024 21:13:46	R2408253-021	Ag (328.068 nm)	-0.0001 u	> 100.00	14.3808
	R2408253-021	Al (237.312 nm)	0.0469	6.25	110.6214
	R2408253-021	As (188.980 nm)	0.0009 u	> 100.00	-2.4395
	R2408253-021	B (249.772 nm)	0.0014	10.13	170.6527
	R2408253-021	Ba (230.424 nm)	0.0249	1.82	1541.1261
	R2408253-021	Be (313.107 nm)	0.0000	17.24	5.4453
	R2408253-021	Ca (317.933 nm)	3.2931	1.48	125829.3549
	R2408253-021	Cd (214.439 nm)	0.0001	45.31	11.6688
	R2408253-021	Co (230.786 nm)	0.0001	76.50	4.0825
	R2408253-021	Cr (267.716 nm)	0.0003	32.82	22.3585
	R2408253-021	Cu (327.395 nm)	0.0001	> 100.00	2.4359
	R2408253-021	Fe (234.350 nm)	0.2210	3.10	5017.8114
	R2408253-021	K (766.491 nm)	0.2034	7.64	1013.9556

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408253-021	Mg (279.078 nm)	0.6474	1.32	2579.1370
	R2408253-021	Mn (257.610 nm)	0.0071	1.48	2433.6140
	R2408253-021	Mo (202.032 nm)	0.0000 u	> 100.00	6.1261
	R2408253-021	Na (588.995 nm)	1.3232	1.37	5884.5271
	R2408253-021	Ni (230.299 nm)	0.0031	7.90	42.9887
	R2408253-021	Pb (220.353 nm)	0.0003	79.18	0.7906
	R2408253-021	Sb (217.582 nm)	0.0007	62.79	5.9656
	R2408253-021	Se (196.026 nm)	-0.0020 u	78.85	1.0784
	R2408253-021	Si (252.851 nm)	0.8903	1.44	5689.4654
	R2408253-021	Sn (189.925 nm)	0.0022	43.39	9.9808
	R2408253-021	Sr (216.596 nm)	0.0178	1.09	340.8715
	R2408253-021	Ti (336.122 nm)	0.0006	29.61	158.8177
	R2408253-021	Tl (190.794 nm)	0.0006 u	> 100.00	-0.3884
	R2408253-021	V (292.401 nm)	0.0001 u	96.15	15.0437
	R2408253-021	Y (360.074 nm)	1.06	1.35	692348.30
	R2408253-021	Y_R (360.074 nm)	1.06	1.35	692551.76
	R2408253-021	Zn (213.857 nm)	0.0022	1.93	141.0544
9/6/2024 21:16:50	R2408253-023	Ag (328.068 nm)	0.0000 u	> 100.00	17.3248
	R2408253-023	Al (237.312 nm)	0.0215	4.93	44.8352
	R2408253-023	As (188.980 nm)	0.0019	63.81	-0.8135
	R2408253-023	B (249.772 nm)	0.0015	6.97	176.8080
	R2408253-023	Ba (230.424 nm)	0.0275	0.25	1703.8536
	R2408253-023	Be (313.107 nm)	0.0000 u	> 100.00	-11.8880
	R2408253-023	Ca (317.933 nm)	4.1074	0.13	156073.3201
	R2408253-023	Cd (214.439 nm)	0.0000 u	> 100.00	8.7471
	R2408253-023	Co (230.786 nm)	0.0002	42.48	5.8477
	R2408253-023	Cr (267.716 nm)	0.0004	8.21	30.0721
	R2408253-023	Cu (327.395 nm)	0.0001 u	> 100.00	4.5224
	R2408253-023	Fe (234.350 nm)	0.0744	1.24	1737.4069
	R2408253-023	K (766.491 nm)	0.1511	5.33	951.1433
	R2408253-023	Mg (279.078 nm)	0.6776	0.31	2699.3299
	R2408253-023	Mn (257.610 nm)	0.0265	0.29	9067.4431
	R2408253-023	Mo (202.032 nm)	0.0000 u	> 100.00	6.5038
	R2408253-023	Na (588.995 nm)	1.3794	0.50	6683.9139
	R2408253-023	Ni (230.299 nm)	0.0022	1.19	31.1660
	R2408253-023	Pb (220.353 nm)	0.0004 u	> 100.00	1.3334
	R2408253-023	Sb (217.582 nm)	0.0006	71.05	5.6709
	R2408253-023	Se (196.026 nm)	0.0007 u	> 100.00	3.0207
	R2408253-023	Si (252.851 nm)	0.7708	0.24	4935.3945
	R2408253-023	Sn (189.925 nm)	0.0021	57.95	9.6095
	R2408253-023	Sr (216.596 nm)	0.0196	1.72	373.6243
	R2408253-023	Ti (336.122 nm)	0.0004	22.57	128.7399
	R2408253-023	Tl (190.794 nm)	0.0003 u	> 100.00	-0.6420
	R2408253-023	V (292.401 nm)	0.0002	> 100.00	15.7683
	R2408253-023	Y (360.074 nm)	1.07	0.32	699597.58
	R2408253-023	Y_R (360.074 nm)	1.07	0.32	699804.64
	R2408253-023	Zn (213.857 nm)	0.0019	2.52	121.2390
9/6/2024 21:19:53	R2408253-025	Ag (328.068 nm)	0.0001	46.57	25.7595
	R2408253-025	Al (237.312 nm)	0.0220	6.88	45.9028
	R2408253-025	As (188.980 nm)	0.0018 u	> 100.00	-1.0087
	R2408253-025	B (249.772 nm)	0.0016	4.08	180.5146
	R2408253-025	Ba (230.424 nm)	0.0283	0.27	1751.6888
	R2408253-025	Be (313.107 nm)	0.0000 u	> 100.00	-15.9272
	R2408253-025	Ca (317.933 nm)	4.2460	0.05	161222.7430
	R2408253-025	Cd (214.439 nm)	0.0000	54.07	9.7255
	R2408253-025	Co (230.786 nm)	0.0001 u	> 100.00	3.3058
	R2408253-025	Cr (267.716 nm)	0.0003	11.77	21.7808

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408253-025	Cu (327.395 nm)	0.0000 u	> 100.00	0.7839
	R2408253-025	Fe (234.350 nm)	0.0369	1.68	896.1697
	R2408253-025	K (766.491 nm)	0.2035	11.38	1014.1269
	R2408253-025	Mg (279.078 nm)	0.7039	0.30	2804.3326
	R2408253-025	Mn (257.610 nm)	0.0070	0.03	2391.2975
	R2408253-025	Mo (202.032 nm)	0.0000 u	> 100.00	6.5890
	R2408253-025	Na (588.995 nm)	2.2010	0.72	18364.9111
	R2408253-025	Ni (230.299 nm)	0.0022	11.21	30.7550
	R2408253-025	Pb (220.353 nm)	0.0003 u	> 100.00	1.0589
	R2408253-025	Sb (217.582 nm)	0.0011 u	> 100.00	6.7620
	R2408253-025	Se (196.026 nm)	-0.0025 u	65.56	0.6710
	R2408253-025	Si (252.851 nm)	0.6239	0.44	4008.0398
	R2408253-025	Sn (189.925 nm)	0.0013 u	> 100.00	7.7862
	R2408253-025	Sr (216.596 nm)	0.0202	0.80	384.7188
	R2408253-025	Ti (336.122 nm)	0.0003	40.92	111.4206
	R2408253-025	Tl (190.794 nm)	0.0000 u	> 100.00	-0.9456
	R2408253-025	V (292.401 nm)	0.0001 u	> 100.00	12.8376
	R2408253-025	Y (360.074 nm)	1.07	0.24	699998.32
	R2408253-025	Y_R (360.074 nm)	1.07	0.24	700218.67
	R2408253-025	Zn (213.857 nm)	0.0023	1.50	144.1857
9/6/2024 21:22:57	R2408253-027	Ag (328.068 nm)	0.0000 u	> 100.00	17.1306
	R2408253-027	Al (237.312 nm)	0.0233	4.57	49.4983
	R2408253-027	As (188.980 nm)	0.0010 u	> 100.00	-2.2246
	R2408253-027	B (249.772 nm)	0.0016	3.80	183.2043
	R2408253-027	Ba (230.424 nm)	0.0293	1.09	1817.3362
	R2408253-027	Be (313.107 nm)	0.0000 u	> 100.00	-15.8632
	R2408253-027	Ca (317.933 nm)	3.5775	1.37	136391.8331
	R2408253-027	Cd (214.439 nm)	0.0000	70.39	9.0891
	R2408253-027	Co (230.786 nm)	0.0002	82.86	5.0217
	R2408253-027	Cr (267.716 nm)	0.0009	10.98	57.4510
	R2408253-027	Cu (327.395 nm)	0.0001	8.30	6.2159
	R2408253-027	Fe (234.350 nm)	0.0257	2.06	645.9608
	R2408253-027	K (766.491 nm)	0.2313	6.29	1047.5823
	R2408253-027	Mg (279.078 nm)	0.5991	1.46	2386.6795
	R2408253-027	Mn (257.610 nm)	0.0048	0.94	1637.6475
	R2408253-027	Mo (202.032 nm)	0.0001 u	> 100.00	6.8780
	R2408253-027	Na (588.995 nm)	1.2052	0.88	4207.9954
	R2408253-027	Ni (230.299 nm)	0.0020	18.72	29.3345
	R2408253-027	Pb (220.353 nm)	0.0000 u	> 100.00	-0.4273
	R2408253-027	Sb (217.582 nm)	0.0012	85.68	7.1883
	R2408253-027	Se (196.026 nm)	-0.0003 u	> 100.00	2.2832
	R2408253-027	Si (252.851 nm)	0.6766	1.36	4340.6136
	R2408253-027	Sn (189.925 nm)	0.0012	52.90	7.4310
	R2408253-027	Sr (216.596 nm)	0.0152	1.63	290.7336
	R2408253-027	Ti (336.122 nm)	0.0002	28.06	104.0366
	R2408253-027	Tl (190.794 nm)	-0.0003 u	> 100.00	-1.2246
	R2408253-027	V (292.401 nm)	0.0001 u	> 100.00	11.9349
	R2408253-027	Y (360.074 nm)	1.06	1.05	694655.35
	R2408253-027	Y_R (360.074 nm)	1.06	1.05	694867.17
	R2408253-027	Zn (213.857 nm)	0.0027	2.51	168.1303
9/6/2024 21:26:01	Continuing Calibration Verification1	Ag (328.068 nm)	0.4810	0.17	28445.1183
	Continuing Calibration Verification1	Al (237.312 nm)	9.2172	0.25	23879.1387
	Continuing Calibration Verification1	As (188.980 nm)	0.9235	0.34	1504.1325
	Continuing Calibration Verification1	B (249.772 nm)	2.1360 Q	0.19	90201.1875 Q
	Continuing Calibration Verification1	Ba (230.424 nm)	9.1144	0.23	561955.5526
	Continuing Calibration Verification1	Be (313.107 nm)	0.2351	0.17	275287.2242
	Continuing Calibration Verification1	Ca (317.933 nm)	24.0690	0.24	897513.8513

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification1	Cd (214.439 nm)	0.4716	0.30	28272.3778
	Continuing Calibration Verification1	Co (230.786 nm)	2.3402	0.24	47252.1061
	Continuing Calibration Verification1	Cr (267.716 nm)	0.4826	0.25	27612.0813
	Continuing Calibration Verification1	Cu (327.395 nm)	1.1736	0.13	52926.0420
	Continuing Calibration Verification1	Fe (234.350 nm)	4.6651	0.27	104513.6558
	Continuing Calibration Verification1	K (766.491 nm)	23.4013	0.14	28910.7437
	Continuing Calibration Verification1	Mg (279.078 nm)	24.1760	0.21	96301.8438
	Continuing Calibration Verification1	Mn (257.610 nm)	0.6938	0.19	237235.6632
	Continuing Calibration Verification1	Mo (202.032 nm)	2.4003	1.20	25560.3090
	Continuing Calibration Verification1	Na (588.995 nm)	23.8626	0.58	326323.7834
	Continuing Calibration Verification1	Ni (230.299 nm)	1.8857	0.28	24208.7532
	Continuing Calibration Verification1	Pb (220.353 nm)	0.4759	0.30	2368.0456
	Continuing Calibration Verification1	Sb (217.582 nm)	4.6274	0.08	10689.5592
	Continuing Calibration Verification1	Se (196.026 nm)	0.4521	1.06	335.7435
	Continuing Calibration Verification1	Si (252.851 nm)	9.1353	0.66	57721.0800
	Continuing Calibration Verification1	Sn (189.925 nm)	4.7961	0.20	12365.1375
	Continuing Calibration Verification1	Sr (216.596 nm)	2.3626	0.48	44370.2577
	Continuing Calibration Verification1	Ti (336.122 nm)	2.4298	0.26	361252.9832
	Continuing Calibration Verification1	Tl (190.794 nm)	0.9484	0.30	854.7279
	Continuing Calibration Verification1	V (292.401 nm)	2.3987	0.14	86636.3849
	Continuing Calibration Verification1	Y (360.074 nm)	1.00	0.66	658388.19
	Continuing Calibration Verification1	Y_R (360.074 nm)	1.00	0.66	658560.27
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9387	0.26	55479.5400
9/6/2024 21:29:04	Continuing Calibration Blank1	Ag (328.068 nm)	0.0000 u	> 100.00	16.5636
	Continuing Calibration Blank1	Al (237.312 nm)	-0.0003 u	> 100.00	-11.7137
	Continuing Calibration Blank1	As (188.980 nm)	0.0011	50.75	-2.0999
	Continuing Calibration Blank1	B (249.772 nm)	0.0001 u	> 100.00	117.1875
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0003	32.56	24.9961
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000 u	> 100.00	-15.7395
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0000 u	> 100.00	3511.8037
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000	> 100.00	10.6018
	Continuing Calibration Blank1	Co (230.786 nm)	0.0000 u	> 100.00	1.3516
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0000 u	> 100.00	3.6337
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0000 u	> 100.00	1.2794
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0047	27.15	175.5525
	Continuing Calibration Blank1	K (766.491 nm)	-0.0124 u	> 100.00	754.5184
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0003 u	> 100.00	1.7678
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0000	37.48	23.1320
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0077	7.12	88.3257
	Continuing Calibration Blank1	Na (588.995 nm)	0.0130	34.13	-12742.1095
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0001 u	> 100.00	3.7642
	Continuing Calibration Blank1	Pb (220.353 nm)	0.0000 u	> 100.00	-0.5327
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0115	27.55	30.9256
	Continuing Calibration Blank1	Se (196.026 nm)	-0.0010 u	> 100.00	1.8158
	Continuing Calibration Blank1	Si (252.851 nm)	0.0064	33.60	111.3562
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0021	97.08	9.7409
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0000 u	> 100.00	5.9370
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0079	25.80	1243.8646
	Continuing Calibration Blank1	Tl (190.794 nm)	-0.0001 u	> 100.00	-1.0074
	Continuing Calibration Blank1	V (292.401 nm)	0.0000 u	> 100.00	11.5645
	Continuing Calibration Blank1	Y (360.074 nm)	1.06	0.13	692551.89
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.06	0.13	692751.18
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0001	60.46	15.9983
9/6/2024 21:32:08	R2408253-029	Ag (328.068 nm)	0.0000 u	> 100.00	16.4748
	R2408253-029	Al (237.312 nm)	0.0590	6.96	142.0262
	R2408253-029	As (188.980 nm)	0.0021	72.61	-0.4516
	R2408253-029	B (249.772 nm)	0.0038	5.36	275.6305

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408253-029	Ba (230.424 nm)	0.0508	3.60	3142.8165
	R2408253-029	Be (313.107 nm)	0.0000	22.25	-10.2282
	R2408253-029	Ca (317.933 nm)	7.6895	3.61	289125.9769
	R2408253-029	Cd (214.439 nm)	0.0001	18.43	11.1457
	R2408253-029	Co (230.786 nm)	0.0000 u	> 100.00	1.9429
	R2408253-029	Cr (267.716 nm)	0.0008	9.65	48.5264
	R2408253-029	Cu (327.395 nm)	0.0002	29.13	10.7476
	R2408253-029	Fe (234.350 nm)	0.1725	5.39	3933.5673
	R2408253-029	K (766.491 nm)	0.5044	8.62	1376.0371
	R2408253-029	Mg (279.078 nm)	1.0154	3.66	4045.0472
	R2408253-029	Mn (257.610 nm)	0.0481	3.64	16440.2737
	R2408253-029	Mo (202.032 nm)	0.0016	16.43	23.3928
	R2408253-029	Na (588.995 nm)	14.6524	3.61	195384.1529
	R2408253-029	Ni (230.299 nm)	0.0027	6.08	38.1656
	R2408253-029	Pb (220.353 nm)	0.0009 u	> 100.00	3.8470
	R2408253-029	Sb (217.582 nm)	0.0015	74.74	7.8420
	R2408253-029	Se (196.026 nm)	-0.0033 u	76.81	0.0953
	R2408253-029	Si (252.851 nm)	0.7433	3.69	4761.5916
	R2408253-029	Sn (189.925 nm)	0.0012	77.28	7.3224
	R2408253-029	Sr (216.596 nm)	0.0395	3.23	746.9341
	R2408253-029	Ti (336.122 nm)	0.0024	26.68	425.2029
	R2408253-029	Tl (190.794 nm)	-0.0005 u	> 100.00	-1.3593
	R2408253-029	V (292.401 nm)	0.0002	32.35	16.2885
	R2408253-029	Y (360.074 nm)	1.04	2.99	681656.95
	R2408253-029	Y_R (360.074 nm)	1.04	2.99	681884.98
	R2408253-029	Zn (213.857 nm)	0.0032	4.33	201.8425
9/6/2024 21:35:12	R2408253-031	Ag (328.068 nm)	0.0000 u	> 100.00	16.9162
	R2408253-031	Al (237.312 nm)	0.2308	1.02	587.1051
	R2408253-031	As (188.980 nm)	0.0015	65.69	-1.4227
	R2408253-031	B (249.772 nm)	0.0052	0.61	332.6404
	R2408253-031	Ba (230.424 nm)	0.0802	0.05	4955.0413
	R2408253-031	Be (313.107 nm)	0.0000	13.98	-3.8610
	R2408253-031	Ca (317.933 nm)	9.5413	0.04	357907.8531
	R2408253-031	Cd (214.439 nm)	0.0001	63.67	14.1572
	R2408253-031	Co (230.786 nm)	0.0006	29.46	14.2305
	R2408253-031	Cr (267.716 nm)	0.0004	28.37	28.5458
	R2408253-031	Cu (327.395 nm)	0.0004	43.99	16.7535
	R2408253-031	Fe (234.350 nm)	0.7016	1.43	15777.5421
	R2408253-031	K (766.491 nm)	1.0995	1.24	2091.6730
	R2408253-031	Mg (279.078 nm)	1.5896	0.09	6332.4627
	R2408253-031	Mn (257.610 nm)	0.3526	0.06	120588.7233
	R2408253-031	Mo (202.032 nm)	0.0008	31.09	14.7764
	R2408253-031	Na (588.995 nm)	7.8335	0.34	98441.3390
	R2408253-031	Ni (230.299 nm)	0.0037	13.42	50.1118
	R2408253-031	Pb (220.353 nm)	0.0012	20.77	5.2537
	R2408253-031	Sb (217.582 nm)	0.0011 u	> 100.00	6.7725
	R2408253-031	Se (196.026 nm)	0.0010 u	> 100.00	3.2422
	R2408253-031	Si (252.851 nm)	1.0403	0.18	6636.0103
	R2408253-031	Sn (189.925 nm)	0.0014	43.22	7.8990
	R2408253-031	Sr (216.596 nm)	0.0504	0.28	951.3348
	R2408253-031	Ti (336.122 nm)	0.0046	8.98	749.8629
	R2408253-031	Tl (190.794 nm)	0.0004 u	> 100.00	-0.5502
	R2408253-031	V (292.401 nm)	0.0004	45.78	24.9373
	R2408253-031	Y (360.074 nm)	1.06	0.24	697259.38
	R2408253-031	Y_R (360.074 nm)	1.06	0.24	697473.85
	R2408253-031	Zn (213.857 nm)	0.0051	0.44	311.9884
9/6/2024 21:38:16	R2408253-033	Ag (328.068 nm)	0.0000 u	> 100.00	18.6064

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408253-033	Al (237.312 nm)	0.0194	4.83	39.3321
	R2408253-033	As (188.980 nm)	0.0012 u	> 100.00	-1.8692
	R2408253-033	B (249.772 nm)	0.0039	1.63	278.8375
	R2408253-033	Ba (230.424 nm)	0.0156	0.66	972.4654
	R2408253-033	Be (313.107 nm)	0.0000 u	> 100.00	-14.1626
	R2408253-033	Ca (317.933 nm)	11.5465	0.03	432385.7168
	R2408253-033	Cd (214.439 nm)	0.0000 u	> 100.00	8.2871
	R2408253-033	Co (230.786 nm)	0.0001 u	> 100.00	2.9225
	R2408253-033	Cr (267.716 nm)	0.0004	10.67	28.6355
	R2408253-033	Cu (327.395 nm)	0.0001	33.14	5.8163
	R2408253-033	Fe (234.350 nm)	0.1702	1.61	3881.4710
	R2408253-033	K (766.491 nm)	0.5856	5.42	1473.6635
	R2408253-033	Mg (279.078 nm)	1.6586	0.01	6607.1856
	R2408253-033	Mn (257.610 nm)	0.0685	0.05	23422.8723
	R2408253-033	Mo (202.032 nm)	0.0005	25.34	11.0536
	R2408253-033	Na (588.995 nm)	9.1548	0.38	117225.5191
	R2408253-033	Ni (230.299 nm)	0.0030	5.60	41.5375
	R2408253-033	Pb (220.353 nm)	0.0005 u	88.96	2.0356
	R2408253-033	Sb (217.582 nm)	0.0008 u	> 100.00	6.1738
	R2408253-033	Se (196.026 nm)	0.0012	45.81	3.4192
	R2408253-033	Si (252.851 nm)	0.8654	0.03	5532.5034
	R2408253-033	Sn (189.925 nm)	0.0005 u	> 100.00	5.6657
	R2408253-033	Sr (216.596 nm)	0.0300	0.16	569.5124
	R2408253-033	Ti (336.122 nm)	0.0010	36.27	216.5936
	R2408253-033	Tl (190.794 nm)	0.0002 u	> 100.00	-0.7027
	R2408253-033	V (292.401 nm)	0.0003	25.41	19.4130
	R2408253-033	Y (360.074 nm)	1.06	0.28	696278.37
	R2408253-033	Y_R (360.074 nm)	1.06	0.28	696488.03
	R2408253-033	Zn (213.857 nm)	0.0015	1.91	100.8603
9/6/2024 21:41:20	R2408253-035	Ag (328.068 nm)	-0.0001 u	74.99	12.3031
	R2408253-035	Al (237.312 nm)	0.0135	7.38	24.1014
	R2408253-035	As (188.980 nm)	0.0003 u	> 100.00	-3.3356
	R2408253-035	B (249.772 nm)	0.0028	3.58	230.2230
	R2408253-035	Ba (230.424 nm)	0.0073	2.54	461.2650
	R2408253-035	Be (313.107 nm)	0.0000 u	> 100.00	-14.1107
	R2408253-035	Ca (317.933 nm)	9.7163	1.73	364406.5202
	R2408253-035	Cd (214.439 nm)	0.0000 u	> 100.00	9.1447
	R2408253-035	Co (230.786 nm)	0.0000 u	> 100.00	0.8811
	R2408253-035	Cr (267.716 nm)	0.0002	9.21	14.4785
	R2408253-035	Cu (327.395 nm)	0.0002	53.07	10.5831
	R2408253-035	Fe (234.350 nm)	0.0313	2.76	771.2404
	R2408253-035	K (766.491 nm)	0.3904	12.11	1238.8883
	R2408253-035	Mg (279.078 nm)	1.4143	1.85	5634.0982
	R2408253-035	Mn (257.610 nm)	0.0067	1.76	2299.4173
	R2408253-035	Mo (202.032 nm)	0.0002	> 100.00	8.8359
	R2408253-035	Na (588.995 nm)	6.1329	1.97	74263.8482
	R2408253-035	Ni (230.299 nm)	0.0036	6.31	49.6244
	R2408253-035	Pb (220.353 nm)	0.0007	31.53	2.8041
	R2408253-035	Sb (217.582 nm)	0.0005 u	> 100.00	5.5722
	R2408253-035	Se (196.026 nm)	-0.0002 u	> 100.00	2.3792
	R2408253-035	Si (252.851 nm)	1.1140	1.72	7100.8104
	R2408253-035	Sn (189.925 nm)	0.0002 u	> 100.00	4.8372
	R2408253-035	Sr (216.596 nm)	0.0239	1.72	454.6924
	R2408253-035	Ti (336.122 nm)	0.0005	47.14	144.7822
	R2408253-035	Tl (190.794 nm)	-0.0009 u	> 100.00	-1.7183
	R2408253-035	V (292.401 nm)	0.0003	17.45	22.1957
	R2408253-035	Y (360.074 nm)	1.05	1.61	690737.10

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408253-035	Y_R (360.074 nm)	1.05	1.61	690946.26
	R2408253-035	Zn (213.857 nm)	0.0013	2.73	86.6238
9/6/2024 21:44:24	R2408253-037	Ag (328.068 nm)	0.0000 u	> 100.00	16.8987
	R2408253-037	Al (237.312 nm)	0.0149	4.12	27.5185
	R2408253-037	As (188.980 nm)	0.0011 u	> 100.00	-2.0573
	R2408253-037	B (249.772 nm)	0.0012	2.18	165.9688
	R2408253-037	Ba (230.424 nm)	0.0059	0.59	375.0653
	R2408253-037	Be (313.107 nm)	0.0000 u	88.70	-17.0108
	R2408253-037	Ca (317.933 nm)	3.8176	0.08	145311.5110
	R2408253-037	Cd (214.439 nm)	0.0000 u	> 100.00	9.2381
	R2408253-037	Co (230.786 nm)	0.0000 u	> 100.00	2.0342
	R2408253-037	Cr (267.716 nm)	0.0002	14.02	15.8871
	R2408253-037	Cu (327.395 nm)	0.0001	83.43	5.8088
	R2408253-037	Fe (234.350 nm)	0.0340	2.10	833.2721
	R2408253-037	K (766.491 nm)	0.0944	12.42	882.9917
	R2408253-037	Mg (279.078 nm)	0.6512	0.14	2594.3679
	R2408253-037	Mn (257.610 nm)	0.0258	0.06	8834.3803
	R2408253-037	Mo (202.032 nm)	0.0001 u	> 100.00	7.4863
	R2408253-037	Na (588.995 nm)	0.9626	0.72	758.1259
	R2408253-037	Ni (230.299 nm)	0.0055	4.56	73.7054
	R2408253-037	Pb (220.353 nm)	0.0000 u	> 100.00	-0.4992
	R2408253-037	Sb (217.582 nm)	-0.0002 u	> 100.00	3.9233
	R2408253-037	Se (196.026 nm)	-0.0005 u	> 100.00	2.1623
	R2408253-037	Si (252.851 nm)	1.7238	0.22	10948.9947
	R2408253-037	Sn (189.925 nm)	0.0011 u	> 100.00	7.1026
	R2408253-037	Sr (216.596 nm)	0.0123	0.84	236.9924
	R2408253-037	Ti (336.122 nm)	0.0006	34.95	165.9252
	R2408253-037	Tl (190.794 nm)	-0.0012 u	> 100.00	-1.9804
	R2408253-037	V (292.401 nm)	0.0001 u	> 100.00	12.7905
	R2408253-037	Y (360.074 nm)	1.07	0.36	703278.63
	R2408253-037	Y_R (360.074 nm)	1.07	0.36	703545.79
	R2408253-037	Zn (213.857 nm)	0.0019	3.62	125.4806
9/6/2024 21:47:27	R2408253-039	Ag (328.068 nm)	0.0000 u	> 100.00	15.2707
	R2408253-039	Al (237.312 nm)	0.0257	11.21	55.6125
	R2408253-039	As (188.980 nm)	0.0029	36.84	0.8333
	R2408253-039	B (249.772 nm)	0.0038	3.67	274.0072
	R2408253-039	Ba (230.424 nm)	0.0219	0.27	1358.6304
	R2408253-039	Be (313.107 nm)	0.0000 u	> 100.00	-11.4808
	R2408253-039	Ca (317.933 nm)	10.7471	0.11	402693.3427
	R2408253-039	Cd (214.439 nm)	0.0000	62.30	9.3167
	R2408253-039	Co (230.786 nm)	0.0001 u	> 100.00	3.6531
	R2408253-039	Cr (267.716 nm)	0.0004	15.79	29.2978
	R2408253-039	Cu (327.395 nm)	0.0002	79.57	7.9124
	R2408253-039	Fe (234.350 nm)	0.4927	1.68	11100.9439
	R2408253-039	K (766.491 nm)	0.8276	1.98	1764.5957
	R2408253-039	Mg (279.078 nm)	1.4413	0.29	5741.5020
	R2408253-039	Mn (257.610 nm)	0.2378	0.11	81315.2363
	R2408253-039	Mo (202.032 nm)	0.0004	44.48	10.2961
	R2408253-039	Na (588.995 nm)	8.9931	0.58	114926.8580
	R2408253-039	Ni (230.299 nm)	0.0061	4.03	80.7955
	R2408253-039	Pb (220.353 nm)	-0.0003 u	> 100.00	-1.9874
	R2408253-039	Sb (217.582 nm)	0.0000 u	> 100.00	4.2900
	R2408253-039	Se (196.026 nm)	-0.0008 u	> 100.00	1.9342
	R2408253-039	Si (252.851 nm)	1.7561	0.32	11153.3359
	R2408253-039	Sn (189.925 nm)	0.0007	57.18	6.0107
	R2408253-039	Sr (216.596 nm)	0.0338	0.32	639.6572
	R2408253-039	Ti (336.122 nm)	0.0005	29.29	151.0625

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408253-039	Tl (190.794 nm)	-0.0003 u	> 100.00	-1.1818
	R2408253-039	V (292.401 nm)	0.0001	73.56	13.8672
	R2408253-039	Y (360.074 nm)	1.06	0.31	696265.14
	R2408253-039	Y_R (360.074 nm)	1.06	0.31	696527.12
	R2408253-039	Zn (213.857 nm)	0.0021	2.78	134.2640
9/6/2024 21:50:30	R2408253-039S	Ag (328.068 nm)	0.0474	0.17	2820.0623
	R2408253-039S	Al (237.312 nm)	1.9177	0.31	4959.4274
	R2408253-039S	As (188.980 nm)	0.0378	4.30	57.7740
	R2408253-039S	B (249.772 nm)	0.8908	0.06	37682.4576
	R2408253-039S	Ba (230.424 nm)	1.8520	0.13	114194.6652
	R2408253-039S	Be (313.107 nm)	0.0473	0.08	55425.0184
	R2408253-039S	Ca (317.933 nm)	12.3765	0.09	463217.1320
	R2408253-039S	Cd (214.439 nm)	0.0483	0.21	2904.4092
	R2408253-039S	Co (230.786 nm)	0.4724	0.11	9539.4563
	R2408253-039S	Cr (267.716 nm)	0.1906	0.24	10906.1446
	R2408253-039S	Cu (327.395 nm)	0.2409	0.15	10865.3633
	R2408253-039S	Fe (234.350 nm)	1.4078	0.31	31588.0737
	R2408253-039S	K (766.491 nm)	19.4565	0.18	24166.9175
	R2408253-039S	Mg (279.078 nm)	3.2749	0.03	13045.3414
	R2408253-039S	Mn (257.610 nm)	0.6867	0.06	234827.7756
	R2408253-039S	Mo (202.032 nm)	0.4166	4.64	4441.5866
	R2408253-039S	Na (588.995 nm)	27.5822	0.40	379204.5041
	R2408253-039S	Ni (230.299 nm)	0.4760	0.11	6113.4613
	R2408253-039S	Pb (220.353 nm)	0.4916	0.26	2446.0799
	R2408253-039S	Sb (217.582 nm)	0.4399	2.59	1020.1396
	R2408253-039S	Se (196.026 nm)	0.9670	0.14	715.3514
	R2408253-039S	Si (252.851 nm)	2.0662	0.20	13110.1419
	R2408253-039S	Sn (189.925 nm)	4.2852	1.10	11048.4801
	R2408253-039S	Sr (216.596 nm)	1.9245	0.14	36143.8197
	R2408253-039S	Ti (336.122 nm)	0.4569	0.41	67987.4180
	R2408253-039S	Tl (190.794 nm)	1.9018	0.04	1714.8397
	R2408253-039S	V (292.401 nm)	0.4699	0.11	16978.3810
	R2408253-039S	Y (360.074 nm)	1.04	0.43	683180.55
	R2408253-039S	Y_R (360.074 nm)	1.04	0.43	683390.25
	R2408253-039S	Zn (213.857 nm)	0.5006	0.11	29589.0481
9/6/2024 21:53:34	R2408253-039SD	Ag (328.068 nm)	0.0477	2.15	2835.0499
	R2408253-039SD	Al (237.312 nm)	1.9254	1.98	4979.3479
	R2408253-039SD	As (188.980 nm)	0.0388	8.82	59.5519
	R2408253-039SD	B (249.772 nm)	0.8992	2.38	38038.3371
	R2408253-039SD	Ba (230.424 nm)	1.8698	2.13	115292.0193
	R2408253-039SD	Be (313.107 nm)	0.0476	2.03	55780.2029
	R2408253-039SD	Ca (317.933 nm)	12.4575	1.95	466223.2795
	R2408253-039SD	Cd (214.439 nm)	0.0485	1.90	2916.4010
	R2408253-039SD	Co (230.786 nm)	0.4760	1.85	9612.6650
	R2408253-039SD	Cr (267.716 nm)	0.1919	2.05	10982.7650
	R2408253-039SD	Cu (327.395 nm)	0.2422	2.15	10922.8487
	R2408253-039SD	Fe (234.350 nm)	1.4209	2.22	31881.9265
	R2408253-039SD	K (766.491 nm)	19.6239	2.15	24368.2058
	R2408253-039SD	Mg (279.078 nm)	3.2973	1.94	13134.7394
	R2408253-039SD	Mn (257.610 nm)	0.6912	1.99	236337.9832
	R2408253-039SD	Mo (202.032 nm)	0.4413	2.23	4704.8891
	R2408253-039SD	Na (588.995 nm)	27.6181	1.61	379714.9244
	R2408253-039SD	Ni (230.299 nm)	0.4787	1.85	6148.0676
	R2408253-039SD	Pb (220.353 nm)	0.4928	2.16	2452.0740
	R2408253-039SD	Sb (217.582 nm)	0.4590	3.71	1064.2445
	R2408253-039SD	Se (196.026 nm)	0.9712	1.66	718.4206
	R2408253-039SD	Si (252.851 nm)	2.0836	2.08	13219.9344

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408253-039SD	Sn (189.925 nm)	4.4641	2.21	11509.4498
	R2408253-039SD	Sr (216.596 nm)	1.9335	1.93	36312.8728
	R2408253-039SD	Ti (336.122 nm)	0.4731	1.69	70394.2778
	R2408253-039SD	Tl (190.794 nm)	1.9197	2.02	1730.9349
	R2408253-039SD	V (292.401 nm)	0.4730	2.12	17092.2405
	R2408253-039SD	Y (360.074 nm)	1.03	1.82	676152.07
	R2408253-039SD	Y_R (360.074 nm)	1.03	1.82	676390.74
	R2408253-039SD	Zn (213.857 nm)	0.5040	1.95	29792.8002
9/6/2024 21:56:37	R2408253-039A	Ag (328.068 nm)	0.0470	0.56	2796.2734
	R2408253-039A	Al (237.312 nm)	1.8794	0.41	4860.1247
	R2408253-039A	As (188.980 nm)	0.0378	3.80	57.8617
	R2408253-039A	B (249.772 nm)	0.8804	0.26	37245.2704
	R2408253-039A	Ba (230.424 nm)	1.8249	0.04	112523.8536
	R2408253-039A	Be (313.107 nm)	0.0465	0.25	54387.4406
	R2408253-039A	Ca (317.933 nm)	12.1306	0.16	454081.7870
	R2408253-039A	Cd (214.439 nm)	0.0474	0.30	2848.0165
	R2408253-039A	Co (230.786 nm)	0.4636	0.09	9361.9621
	R2408253-039A	Cr (267.716 nm)	0.1868	0.20	10692.9705
	R2408253-039A	Cu (327.395 nm)	0.2363	0.40	10654.3771
	R2408253-039A	Fe (234.350 nm)	1.3862	0.39	31104.6681
	R2408253-039A	K (766.491 nm)	19.2373	0.27	23903.3080
	R2408253-039A	Mg (279.078 nm)	3.2117	0.14	12793.6945
	R2408253-039A	Mn (257.610 nm)	0.6733	0.23	230237.0637
	R2408253-039A	Mo (202.032 nm)	0.4353	3.20	4640.3307
	R2408253-039A	Na (588.995 nm)	27.1613	0.50	373220.6962
	R2408253-039A	Ni (230.299 nm)	0.4673	0.22	6000.8376
	R2408253-039A	Pb (220.353 nm)	0.4820	0.32	2398.2907
	R2408253-039A	Sb (217.582 nm)	0.4529	1.82	1050.0471
	R2408253-039A	Se (196.026 nm)	0.9615	0.98	711.2723
	R2408253-039A	Si (252.851 nm)	2.0378	0.25	12930.8700
	R2408253-039A	Sn (189.925 nm)	4.4143	0.53	11381.1752
	R2408253-039A	Sr (216.596 nm)	1.8955	0.11	35599.0839
	R2408253-039A	Ti (336.122 nm)	0.4651	0.10	69208.3126
	R2408253-039A	Tl (190.794 nm)	1.8800	0.30	1695.1280
	R2408253-039A	V (292.401 nm)	0.4616	0.23	16678.4232
	R2408253-039A	Y (360.074 nm)	1.04	0.37	684583.32
	R2408253-039A	Y_R (360.074 nm)	1.04	0.37	684824.50
	R2408253-039A	Zn (213.857 nm)	0.4917	0.23	29063.7978
9/6/2024 21:59:40	R2408253-0439L 5X	Ag (328.068 nm)	-0.0001 u	86.49	14.3899
	R2408253-0439L 5X	Al (237.312 nm)	0.0064	11.62	5.5213
	R2408253-0439L 5X	As (188.980 nm)	0.0027	19.89	0.5189
	R2408253-0439L 5X	B (249.772 nm)	0.0005	9.88	134.5373
	R2408253-0439L 5X	Ba (230.424 nm)	0.0044	1.11	276.8388
	R2408253-0439L 5X	Be (313.107 nm)	0.0000	79.05	-10.9571
	R2408253-0439L 5X	Ca (317.933 nm)	2.0854	0.12	80970.9513
	R2408253-0439L 5X	Cd (214.439 nm)	0.0000 u	> 100.00	8.2701
	R2408253-0439L 5X	Co (230.786 nm)	0.0000 u	> 100.00	1.7683
	R2408253-0439L 5X	Cr (267.716 nm)	0.0000 u	> 100.00	4.5155
	R2408253-0439L 5X	Cu (327.395 nm)	0.0001 u	> 100.00	3.1783
	R2408253-0439L 5X	Fe (234.350 nm)	0.1032	1.30	2382.2202
	R2408253-0439L 5X	K (766.491 nm)	0.1365	8.16	933.5171
	R2408253-0439L 5X	Mg (279.078 nm)	0.2828	0.19	1127.0061
	R2408253-0439L 5X	Mn (257.610 nm)	0.0470	0.10	16071.2675
	R2408253-0439L 5X	Mo (202.032 nm)	0.0079	17.37	90.6789
	R2408253-0439L 5X	Na (588.995 nm)	1.7479	0.67	11922.2946
	R2408253-0439L 5X	Ni (230.299 nm)	0.0011	9.91	17.1865
	R2408253-0439L 5X	Pb (220.353 nm)	0.0006	> 100.00	2.4478

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408253-0439L 5X	Sb (217.582 nm)	0.0109	36.78	29.4288
	R2408253-0439L 5X	Se (196.026 nm)	0.0091	37.46	9.2124
	R2408253-0439L 5X	Si (252.851 nm)	0.3467	0.51	2258.5744
	R2408253-0439L 5X	Sn (189.925 nm)	0.1007	35.35	263.7509
	R2408253-0439L 5X	Sr (216.596 nm)	0.0064	2.14	126.7269
	R2408253-0439L 5X	Ti (336.122 nm)	0.0036	32.30	607.1220
	R2408253-0439L 5X	Tl (190.794 nm)	-0.0018 u	86.99	-2.5523
	R2408253-0439L 5X	V (292.401 nm)	0.0001 u	96.32	14.4059
	R2408253-0439L 5X	Y (360.074 nm)	1.06	0.44	696813.58
	R2408253-0439L 5X	Y_R (360.074 nm)	1.06	0.44	697072.14
	R2408253-0439L 5X	Zn (213.857 nm)	0.0005	6.10	38.0959
9/6/2024 22:02:44	Continuing Calibration Verification1	Ag (328.068 nm)	0.4847	1.53	28667.3135
	Continuing Calibration Verification1	Al (237.312 nm)	9.2597	1.34	23989.2663
	Continuing Calibration Verification1	As (188.980 nm)	0.9319	1.26	1517.8876
	Continuing Calibration Verification1	B (249.772 nm)	2.1525 Q	1.28	90899.5564 Q
	Continuing Calibration Verification1	Ba (230.424 nm)	9.2312	1.54	569153.2590
	Continuing Calibration Verification1	Be (313.107 nm)	0.2368	1.06	277238.5145
	Continuing Calibration Verification1	Ca (317.933 nm)	24.2648	1.08	904784.8235
	Continuing Calibration Verification1	Cd (214.439 nm)	0.4754	1.24	28501.6703
	Continuing Calibration Verification1	Co (230.786 nm)	2.3554	1.09	47557.9753
	Continuing Calibration Verification1	Cr (267.716 nm)	0.4856	1.05	27785.3801
	Continuing Calibration Verification1	Cu (327.395 nm)	1.1816	1.45	53286.9580
	Continuing Calibration Verification1	Fe (234.350 nm)	4.7046	0.99	105397.7882
	Continuing Calibration Verification1	K (766.491 nm)	23.5466	1.63	29085.4567
	Continuing Calibration Verification1	Mg (279.078 nm)	24.3792	1.03	97111.4989
	Continuing Calibration Verification1	Mn (257.610 nm)	0.6993	1.14	239118.6937
	Continuing Calibration Verification1	Mo (202.032 nm)	2.4241	0.34	25814.3984
	Continuing Calibration Verification1	Na (588.995 nm)	23.9875	1.74	328098.4009
	Continuing Calibration Verification1	Ni (230.299 nm)	1.9035	1.06	24437.2189
	Continuing Calibration Verification1	Pb (220.353 nm)	0.4789	0.95	2382.7147
	Continuing Calibration Verification1	Sb (217.582 nm)	4.6475	1.08	10735.9202
	Continuing Calibration Verification1	Se (196.026 nm)	0.4608	2.04	342.1674
	Continuing Calibration Verification1	Si (252.851 nm)	9.2000	0.74	58128.8192
	Continuing Calibration Verification1	Sn (189.925 nm)	4.8947	0.61	12619.2763
	Continuing Calibration Verification1	Sr (216.596 nm)	2.3778	1.10	44656.7490
	Continuing Calibration Verification1	Ti (336.122 nm)	2.4547	1.03	364966.1634
	Continuing Calibration Verification1	Tl (190.794 nm)	0.9588	1.27	864.1099
	Continuing Calibration Verification1	V (292.401 nm)	2.4136	1.14	87171.5294
	Continuing Calibration Verification1	Y (360.074 nm)	1.00	1.73	652426.87
	Continuing Calibration Verification1	Y_R (360.074 nm)	1.00	1.73	652686.33
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9434	1.08	55755.1126
9/6/2024 22:05:48	Continuing Calibration Blank1	Ag (328.068 nm)	0.0000 u	> 100.00	15.6700
	Continuing Calibration Blank1	Al (237.312 nm)	0.0010	> 100.00	-8.4043
	Continuing Calibration Blank1	As (188.980 nm)	0.0012	12.93	-1.9350
	Continuing Calibration Blank1	B (249.772 nm)	0.0003	80.47	124.6089
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0004	27.47	33.2285
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000	31.46	-6.6436
	Continuing Calibration Blank1	Ca (317.933 nm)	-0.0006 u	59.19	3488.6937
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000 u	> 100.00	10.9261
	Continuing Calibration Blank1	Co (230.786 nm)	0.0002	> 100.00	5.5332
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0001 u	> 100.00	9.5362
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0000 u	> 100.00	0.5715
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0039	20.86	158.1114
	Continuing Calibration Blank1	K (766.491 nm)	-0.0078 u	63.36	760.0638
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0007	51.03	3.2260
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0001	34.30	29.9977
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0071	11.52	81.8304

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank1	Na (588.995 nm)	0.0026	52.18	-12889.8134
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0004	80.53	8.3114
	Continuing Calibration Blank1	Pb (220.353 nm)	0.0004 u	> 100.00	1.7018
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0120	5.85	32.0973
	Continuing Calibration Blank1	Se (196.026 nm)	0.0011 u	> 100.00	3.3081
	Continuing Calibration Blank1	Si (252.851 nm)	0.0060	30.83	108.6834
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0139	44.25	40.2151
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0001 u	> 100.00	7.8253
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0070	24.96	1116.5522
	Continuing Calibration Blank1	Tl (190.794 nm)	0.0009 u	> 100.00	-0.0882
	Continuing Calibration Blank1	V (292.401 nm)	0.0000 u	> 100.00	9.7393
	Continuing Calibration Blank1	Y (360.074 nm)	1.05	0.30	690088.51
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.05	0.30	690280.82
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0001	87.45	14.5601
9/6/2024 22:08:52	PBW-444184	Ag (328.068 nm)	0.0000 u	> 100.00	17.0876
	PBW-444184	Al (237.312 nm)	0.0009 u	> 100.00	-8.7804
	PBW-444184	As (188.980 nm)	0.0018	14.79	-0.8691
	PBW-444184	B (249.772 nm)	-0.0011 u	7.64	68.6773
	PBW-444184	Ba (230.424 nm)	0.0001	45.80	13.0750
	PBW-444184	Be (313.107 nm)	0.0000	33.40	-10.9029
	PBW-444184	Ca (317.933 nm)	-0.0026 u	4.22	3415.7892
	PBW-444184	Cd (214.439 nm)	0.0000 u	> 100.00	7.9324
	PBW-444184	Co (230.786 nm)	0.0002	18.32	4.6174
	PBW-444184	Cr (267.716 nm)	-0.0001 u	94.02	0.5115
	PBW-444184	Cu (327.395 nm)	0.0002	20.87	6.8559
	PBW-444184	Fe (234.350 nm)	-0.0006 u	49.60	57.5321
	PBW-444184	K (766.491 nm)	-0.0685 u	45.15	687.0652
	PBW-444184	Mg (279.078 nm)	0.0002 u	> 100.00	1.0355
	PBW-444184	Mn (257.610 nm)	0.0000	99.74	11.6242
	PBW-444184	Mo (202.032 nm)	0.0017	31.83	24.8370
	PBW-444184	Na (588.995 nm)	0.0077	11.76	-12817.8706
	PBW-444184	Ni (230.299 nm)	0.0000 u	> 100.00	3.6280
	PBW-444184	Pb (220.353 nm)	0.0005 u	> 100.00	1.9808
	PBW-444184	Sb (217.582 nm)	0.0019	48.70	8.7698
	PBW-444184	Se (196.026 nm)	0.0015	> 100.00	3.6444
	PBW-444184	Si (252.851 nm)	0.0154	8.76	167.9366
	PBW-444184	Sn (189.925 nm)	0.0081	49.65	25.2677
	PBW-444184	Sr (216.596 nm)	-0.0001 u	> 100.00	3.2145
	PBW-444184	Ti (336.122 nm)	0.0017	39.73	325.2652
	PBW-444184	Tl (190.794 nm)	-0.0002 u	> 100.00	-1.1422
	PBW-444184	V (292.401 nm)	-0.0001 u	> 100.00	6.8597
	PBW-444184	Y (360.074 nm)	1.08	0.19	706818.22
	PBW-444184	Y_R (360.074 nm)	1.08	0.19	707124.36
	PBW-444184	Zn (213.857 nm)	0.0001	64.50	18.2803
9/6/2024 22:11:55	LCSW-444184	Ag (328.068 nm)	0.0474	2.11	2816.9672
	LCSW-444184	Al (237.312 nm)	1.8884	2.50	4883.4902
	LCSW-444184	As (188.980 nm)	0.0345	2.29	52.5087
	LCSW-444184	B (249.772 nm)	0.8788	2.65	37179.6755
	LCSW-444184	Ba (230.424 nm)	1.8343	2.35	113102.5562
	LCSW-444184	Be (313.107 nm)	0.0470	2.27	55017.8358
	LCSW-444184	Ca (317.933 nm)	1.8955	2.26	73918.5784
	LCSW-444184	Cd (214.439 nm)	0.0489	2.44	2937.4723
	LCSW-444184	Co (230.786 nm)	0.4735	2.24	9560.7991
	LCSW-444184	Cr (267.716 nm)	0.1897	2.34	10857.9453
	LCSW-444184	Cu (327.395 nm)	0.2383	2.35	10745.2953
	LCSW-444184	Fe (234.350 nm)	0.9174	2.67	20609.2537
	LCSW-444184	K (766.491 nm)	18.1531	2.18	22599.5052

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	LCSW-444184	Mg (279.078 nm)	1.8858	2.27	7512.2735
	LCSW-444184	Mn (257.610 nm)	0.4577	2.26	156512.4572
	LCSW-444184	Mo (202.032 nm)	0.4251	2.39	4532.1477
	LCSW-444184	Na (588.995 nm)	18.4650	2.30	249586.3529
	LCSW-444184	Ni (230.299 nm)	0.4724	2.63	6066.8441
	LCSW-444184	Pb (220.353 nm)	0.4943	2.56	2459.2937
	LCSW-444184	Sb (217.582 nm)	0.4446	5.08	1030.9146
	LCSW-444184	Se (196.026 nm)	0.9550	2.12	706.5116
	LCSW-444184	Si (252.851 nm)	0.2899	3.05	1900.1965
	LCSW-444184	Sn (189.925 nm)	4.2486	3.17	10954.0124
	LCSW-444184	Sr (216.596 nm)	1.8931	2.22	35553.7089
	LCSW-444184	Ti (336.122 nm)	0.4624	1.77	68807.0253
	LCSW-444184	Tl (190.794 nm)	1.9123	2.35	1724.3219
	LCSW-444184	V (292.401 nm)	0.4654	2.37	16816.0497
	LCSW-444184	Y (360.074 nm)	1.04	2.08	679887.47
	LCSW-444184	Y_R (360.074 nm)	1.04	2.07	680155.50
	LCSW-444184	Zn (213.857 nm)	0.4991	2.41	29502.6036
9/6/2024 22:14:59	R2408254-001	Ag (328.068 nm)	0.0000 u	> 100.00	15.9996
	R2408254-001	Al (237.312 nm)	0.0221	5.11	46.1981
	R2408254-001	As (188.980 nm)	0.0020	74.82	-0.5772
	R2408254-001	B (249.772 nm)	0.0061	4.08	368.8258
	R2408254-001	Ba (230.424 nm)	0.0292	0.61	1808.9607
	R2408254-001	Be (313.107 nm)	0.0000 u	> 100.00	-17.5162
	R2408254-001	Ca (317.933 nm)	7.1765	0.14	270071.4691
	R2408254-001	Cd (214.439 nm)	-0.0001 u	55.89	4.8523
	R2408254-001	Co (230.786 nm)	0.0001 u	> 100.00	2.9356
	R2408254-001	Cr (267.716 nm)	0.0002	23.75	17.7523
	R2408254-001	Cu (327.395 nm)	0.0003	53.86	11.6876
	R2408254-001	Fe (234.350 nm)	0.1188	1.25	2731.4356
	R2408254-001	K (766.491 nm)	0.6654	4.83	1569.5951
	R2408254-001	Mg (279.078 nm)	1.2411	0.12	4943.9388
	R2408254-001	Mn (257.610 nm)	0.0421	0.18	14413.8863
	R2408254-001	Mo (202.032 nm)	0.0076	17.37	86.6046
	R2408254-001	Na (588.995 nm)	10.1519	0.42	131400.9797
	R2408254-001	Ni (230.299 nm)	0.0032	9.16	44.2289
	R2408254-001	Pb (220.353 nm)	0.0004 u	> 100.00	1.3487
	R2408254-001	Sb (217.582 nm)	0.0092	29.97	25.5610
	R2408254-001	Se (196.026 nm)	0.0050	77.29	6.1865
	R2408254-001	Si (252.851 nm)	0.9522	0.10	6079.6883
	R2408254-001	Sn (189.925 nm)	0.0865	27.75	227.1496
	R2408254-001	Sr (216.596 nm)	0.0436	0.52	823.8401
	R2408254-001	Ti (336.122 nm)	0.0035	29.42	597.4703
	R2408254-001	Tl (190.794 nm)	0.0012 u	> 100.00	0.1268
	R2408254-001	V (292.401 nm)	0.0002	37.87	17.0849
	R2408254-001	Y (360.074 nm)	1.06	0.29	696849.01
	R2408254-001	Y_R (360.074 nm)	1.06	0.30	697118.25
	R2408254-001	Zn (213.857 nm)	0.0026	2.64	164.5954
9/6/2024 22:18:03	R2408254-003	Ag (328.068 nm)	0.0000 u	> 100.00	16.2104
	R2408254-003	Al (237.312 nm)	0.0130	16.74	22.6178
	R2408254-003	As (188.980 nm)	0.0018	58.50	-0.8772
	R2408254-003	B (249.772 nm)	0.0044	2.55	299.6282
	R2408254-003	Ba (230.424 nm)	0.0403	0.40	2490.6746
	R2408254-003	Be (313.107 nm)	0.0000	61.35	-6.1058
	R2408254-003	Ca (317.933 nm)	5.5790	0.21	210734.0591
	R2408254-003	Cd (214.439 nm)	0.0000 u	> 100.00	7.8031
	R2408254-003	Co (230.786 nm)	0.0001 u	> 100.00	3.3987
	R2408254-003	Cr (267.716 nm)	0.0005	14.49	31.3091

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408254-003	Cu (327.395 nm)	0.0002	15.04	10.4126
	R2408254-003	Fe (234.350 nm)	0.0662	1.33	1553.6467
	R2408254-003	K (766.491 nm)	0.5830	3.81	1470.4741
	R2408254-003	Mg (279.078 nm)	1.0972	0.16	4370.9526
	R2408254-003	Mn (257.610 nm)	0.0673	0.24	23037.1675
	R2408254-003	Mo (202.032 nm)	0.0018	18.52	25.4658
	R2408254-003	Na (588.995 nm)	13.5073	0.24	179103.5847
	R2408254-003	Ni (230.299 nm)	0.0021	9.80	29.6020
	R2408254-003	Pb (220.353 nm)	0.0001 u	> 100.00	-0.1410
	R2408254-003	Sb (217.582 nm)	0.0035	55.70	12.2982
	R2408254-003	Se (196.026 nm)	0.0020 u	> 100.00	4.0030
	R2408254-003	Si (252.851 nm)	0.7106	0.14	4555.3814
	R2408254-003	Sn (189.925 nm)	0.0224	41.43	62.0168
	R2408254-003	Sr (216.596 nm)	0.0390	0.54	738.0987
	R2408254-003	Ti (336.122 nm)	0.0012	38.31	255.5512
	R2408254-003	Tl (190.794 nm)	0.0011	56.58	0.0990
	R2408254-003	V (292.401 nm)	0.0000 u	> 100.00	10.2337
	R2408254-003	Y (360.074 nm)	1.06	0.11	695802.54
	R2408254-003	Y_R (360.074 nm)	1.06	0.11	696117.29
	R2408254-003	Zn (213.857 nm)	0.0018	0.67	116.8300
9/6/2024 22:21:06	R2408254-005	Ag (328.068 nm)	0.0000 u	> 100.00	17.2662
	R2408254-005	Al (237.312 nm)	0.0444	9.69	104.0656
	R2408254-005	As (188.980 nm)	0.0029	25.33	0.7959
	R2408254-005	B (249.772 nm)	0.0054	12.32	341.1309
	R2408254-005	Ba (230.424 nm)	0.0299	7.22	1852.6485
	R2408254-005	Be (313.107 nm)	0.0000 u	> 100.00	-14.8778
	R2408254-005	Ca (317.933 nm)	5.9795	7.15	225610.9518
	R2408254-005	Cd (214.439 nm)	0.0000 u	> 100.00	7.7247
	R2408254-005	Co (230.786 nm)	0.0002	49.10	5.5074
	R2408254-005	Cr (267.716 nm)	0.0003	7.35	21.6785
	R2408254-005	Cu (327.395 nm)	0.0003	31.83	14.8086
	R2408254-005	Fe (234.350 nm)	0.1454	8.66	3326.3776
	R2408254-005	K (766.491 nm)	0.6478	19.80	1548.4241
	R2408254-005	Mg (279.078 nm)	1.1053	7.08	4403.3712
	R2408254-005	Mn (257.610 nm)	0.0377	7.12	12883.4286
	R2408254-005	Mo (202.032 nm)	0.0010	47.25	16.3650
	R2408254-005	Na (588.995 nm)	9.8669	6.85	127349.6735
	R2408254-005	Ni (230.299 nm)	0.0034	10.53	47.2565
	R2408254-005	Pb (220.353 nm)	0.0007 u	> 100.00	2.7412
	R2408254-005	Sb (217.582 nm)	0.0017 u	> 100.00	8.3467
	R2408254-005	Se (196.026 nm)	-0.0012 u	> 100.00	1.6025
	R2408254-005	Si (252.851 nm)	0.9629	7.15	6147.7668
	R2408254-005	Sn (189.925 nm)	0.0134	33.88	38.8004
	R2408254-005	Sr (216.596 nm)	0.0392	6.59	741.3580
	R2408254-005	Ti (336.122 nm)	0.0010	26.15	220.9122
	R2408254-005	Tl (190.794 nm)	0.0010 u	> 100.00	0.0084
	R2408254-005	V (292.401 nm)	0.0001	72.53	13.7768
	R2408254-005	Y (360.074 nm)	1.03	6.29	671952.22
	R2408254-005	Y_R (360.074 nm)	1.03	6.29	672360.46
	R2408254-005	Zn (213.857 nm)	0.0040	8.36	244.9318
9/6/2024 22:24:11	R2408254-007	Ag (328.068 nm)	0.0000 u	47.62	15.0233
	R2408254-007	Al (237.312 nm)	0.0120	2.00	20.1338
	R2408254-007	As (188.980 nm)	0.0011	66.12	-2.1298
	R2408254-007	B (249.772 nm)	0.0038	2.67	274.3071
	R2408254-007	Ba (230.424 nm)	0.0194	0.41	1201.4503
	R2408254-007	Be (313.107 nm)	0.0000 u	> 100.00	-15.4851
	R2408254-007	Ca (317.933 nm)	9.0221	0.09	338623.9175

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408254-007	Cd (214.439 nm)	0.0000 u	> 100.00	8.2034
	R2408254-007	Co (230.786 nm)	0.0003	40.94	6.6557
	R2408254-007	Cr (267.716 nm)	0.0003	15.42	21.4402
	R2408254-007	Cu (327.395 nm)	0.0000 u	> 100.00	1.9661
	R2408254-007	Fe (234.350 nm)	0.2534	1.25	5745.2869
	R2408254-007	K (766.491 nm)	0.1652	10.61	968.0845
	R2408254-007	Mg (279.078 nm)	1.5815	0.14	6299.8490
	R2408254-007	Mn (257.610 nm)	0.0769	0.04	26288.3125
	R2408254-007	Mo (202.032 nm)	0.0003	41.90	8.9807
	R2408254-007	Na (588.995 nm)	10.8755	0.29	141687.6721
	R2408254-007	Ni (230.299 nm)	0.0085	4.94	112.0055
	R2408254-007	Pb (220.353 nm)	0.0003 u	> 100.00	1.1100
	R2408254-007	Sb (217.582 nm)	0.0014	38.04	7.4457
	R2408254-007	Se (196.026 nm)	0.0005 u	> 100.00	2.8691
	R2408254-007	Si (252.851 nm)	2.6213	0.13	16613.1441
	R2408254-007	Sn (189.925 nm)	0.0088	45.03	27.0589
	R2408254-007	Sr (216.596 nm)	0.0465	0.06	878.3149
	R2408254-007	Ti (336.122 nm)	0.0005	48.25	145.9927
	R2408254-007	Tl (190.794 nm)	0.0011	> 100.00	0.1110
	R2408254-007	V (292.401 nm)	0.0000 u	> 100.00	8.8269
	R2408254-007	Y (360.074 nm)	1.06	0.24	697604.53
	R2408254-007	Y_R (360.074 nm)	1.06	0.24	697917.10
	R2408254-007	Zn (213.857 nm)	0.0029	2.02	184.4404
9/6/2024 22:27:14	R2408254-009	Ag (328.068 nm)	0.0000 u	61.87	15.1914
	R2408254-009	Al (237.312 nm)	0.0320	1.84	72.0260
	R2408254-009	As (188.980 nm)	0.0017	64.74	-1.1750
	R2408254-009	B (249.772 nm)	0.0048	1.37	316.9523
	R2408254-009	Ba (230.424 nm)	0.0281	0.16	1743.6138
	R2408254-009	Be (313.107 nm)	0.0000 u	> 100.00	-12.8097
	R2408254-009	Ca (317.933 nm)	4.2340	0.08	160776.9655
	R2408254-009	Cd (214.439 nm)	0.0000 u	57.00	6.6385
	R2408254-009	Co (230.786 nm)	0.0002	23.86	4.6366
	R2408254-009	Cr (267.716 nm)	0.0003	29.59	20.8489
	R2408254-009	Cu (327.395 nm)	0.0005	17.18	22.9411
	R2408254-009	Fe (234.350 nm)	0.0604	1.36	1423.9100
	R2408254-009	K (766.491 nm)	0.6853	2.99	1593.5619
	R2408254-009	Mg (279.078 nm)	0.7857	0.22	3129.9666
	R2408254-009	Mn (257.610 nm)	0.0173	0.10	5934.3124
	R2408254-009	Mo (202.032 nm)	0.0005	70.63	11.0267
	R2408254-009	Na (588.995 nm)	8.7447	0.54	111395.6286
	R2408254-009	Ni (230.299 nm)	0.0015	11.63	22.7570
	R2408254-009	Pb (220.353 nm)	0.0004 u	> 100.00	1.2298
	R2408254-009	Sb (217.582 nm)	0.0022	5.37	9.3958
	R2408254-009	Se (196.026 nm)	-0.0005 u	> 100.00	2.1656
	R2408254-009	Si (252.851 nm)	0.4056	0.09	2630.5101
	R2408254-009	Sn (189.925 nm)	0.0066	38.42	21.2065
	R2408254-009	Sr (216.596 nm)	0.0335	0.77	635.1928
	R2408254-009	Ti (336.122 nm)	0.0005	45.83	152.5369
	R2408254-009	Tl (190.794 nm)	-0.0004 u	> 100.00	-1.2486
	R2408254-009	V (292.401 nm)	0.0000	22.91	11.1475
	R2408254-009	Y (360.074 nm)	1.07	0.27	700520.71
	R2408254-009	Y_R (360.074 nm)	1.07	0.27	700824.54
	R2408254-009	Zn (213.857 nm)	0.0032	0.46	201.1248
9/6/2024 22:30:17	R2408254-009S	Ag (328.068 nm)	0.0470	2.24	2796.5764
	R2408254-009S	Al (237.312 nm)	1.9089	2.14	4936.6004
	R2408254-009S	As (188.980 nm)	0.0359	5.82	54.8075
	R2408254-009S	B (249.772 nm)	0.8823	2.36	37326.7925

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408254-009S	Ba (230.424 nm)	1.8533	2.01	114270.6377
	R2408254-009S	Be (313.107 nm)	0.0470	2.07	55060.4113
	R2408254-009S	Ca (317.933 nm)	6.1469	2.04	231828.5444
	R2408254-009S	Cd (214.439 nm)	0.0481	1.87	2893.3310
	R2408254-009S	Co (230.786 nm)	0.4706	2.17	9502.5875
	R2408254-009S	Cr (267.716 nm)	0.1896	1.96	10853.4124
	R2408254-009S	Cu (327.395 nm)	0.2401	2.29	10828.9915
	R2408254-009S	Fe (234.350 nm)	0.9774	2.24	21953.2713
	R2408254-009S	K (766.491 nm)	19.1587	2.40	23808.8140
	R2408254-009S	Mg (279.078 nm)	2.6607	2.12	10598.7122
	R2408254-009S	Mn (257.610 nm)	0.4747	2.08	162326.0341
	R2408254-009S	Mo (202.032 nm)	0.4220	2.96	4498.7014
	R2408254-009S	Na (588.995 nm)	27.2773	1.85	374869.6627
	R2408254-009S	Ni (230.299 nm)	0.4707	2.02	6044.5469
	R2408254-009S	Pb (220.353 nm)	0.4901	1.85	2438.5773
	R2408254-009S	Sb (217.582 nm)	0.4477	4.18	1038.1224
	R2408254-009S	Se (196.026 nm)	0.9514	1.63	703.8215
	R2408254-009S	Si (252.851 nm)	0.7214	2.35	4623.7124
	R2408254-009S	Sn (189.925 nm)	4.2611	2.66	10986.3733
	R2408254-009S	Sr (216.596 nm)	1.9107	1.98	35885.5852
	R2408254-009S	Ti (336.122 nm)	0.4623	1.70	68787.7824
	R2408254-009S	Tl (190.794 nm)	1.8853	1.78	1699.9062
	R2408254-009S	V (292.401 nm)	0.4665	2.00	16857.4826
	R2408254-009S	Y (360.074 nm)	1.04	2.06	679548.18
	R2408254-009S	Y_R (360.074 nm)	1.04	2.06	679824.59
	R2408254-009S	Zn (213.857 nm)	0.5005	2.02	29585.4533
9/6/2024 22:33:21	R2408254-009SD	Ag (328.068 nm)	0.0462	0.77	2750.4612
	R2408254-009SD	Al (237.312 nm)	1.8681	0.16	4830.8215
	R2408254-009SD	As (188.980 nm)	0.0359	5.76	54.7606
	R2408254-009SD	B (249.772 nm)	0.8630	0.20	36513.6933
	R2408254-009SD	Ba (230.424 nm)	1.8143	0.22	111865.9717
	R2408254-009SD	Be (313.107 nm)	0.0460	0.26	53841.3259
	R2408254-009SD	Ca (317.933 nm)	6.0684	0.30	228910.6986
	R2408254-009SD	Cd (214.439 nm)	0.0470	0.09	2827.3131
	R2408254-009SD	Co (230.786 nm)	0.4598	0.39	9284.5881
	R2408254-009SD	Cr (267.716 nm)	0.1852	0.37	10600.1679
	R2408254-009SD	Cu (327.395 nm)	0.2343	0.20	10566.1179
	R2408254-009SD	Fe (234.350 nm)	0.9597	0.18	21556.2967
	R2408254-009SD	K (766.491 nm)	18.7714	0.27	23343.0550
	R2408254-009SD	Mg (279.078 nm)	2.6115	0.31	10402.7241
	R2408254-009SD	Mn (257.610 nm)	0.4646	0.29	158858.2148
	R2408254-009SD	Mo (202.032 nm)	0.4263	3.65	4545.1575
	R2408254-009SD	Na (588.995 nm)	26.8954	0.20	369439.8010
	R2408254-009SD	Ni (230.299 nm)	0.4591	0.33	5896.1677
	R2408254-009SD	Pb (220.353 nm)	0.4794	0.56	2385.3299
	R2408254-009SD	Sb (217.582 nm)	0.4440	1.66	1029.6560
	R2408254-009SD	Se (196.026 nm)	0.9401	0.71	695.4772
	R2408254-009SD	Si (252.851 nm)	0.7131	0.15	4571.2474
	R2408254-009SD	Sn (189.925 nm)	4.3007	0.55	11088.4547
	R2408254-009SD	Sr (216.596 nm)	1.8709	0.31	35137.6820
	R2408254-009SD	Ti (336.122 nm)	0.4564	0.45	67919.4776
	R2408254-009SD	Tl (190.794 nm)	1.8561	0.63	1673.6129
	R2408254-009SD	V (292.401 nm)	0.4559	0.22	16473.9206
	R2408254-009SD	Y (360.074 nm)	1.05	0.17	687017.29
	R2408254-009SD	Y_R (360.074 nm)	1.05	0.17	687314.10
	R2408254-009SD	Zn (213.857 nm)	0.4890	0.28	28908.3846
9/6/2024 22:36:24	R2408254-009A	Ag (328.068 nm)	0.0463	0.55	2751.0585

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408254-009A	Al (237.312 nm)	1.8567	0.31	4801.3439
	R2408254-009A	As (188.980 nm)	0.0360	1.97	54.8560
	R2408254-009A	B (249.772 nm)	0.8649	0.13	36591.0722
	R2408254-009A	Ba (230.424 nm)	1.8053	0.19	111316.5126
	R2408254-009A	Be (313.107 nm)	0.0457	0.12	53507.0447
	R2408254-009A	Ca (317.933 nm)	5.9923	0.10	226086.8871
	R2408254-009A	Cd (214.439 nm)	0.0468	0.19	2813.5050
	R2408254-009A	Co (230.786 nm)	0.4568	0.19	9224.4820
	R2408254-009A	Cr (267.716 nm)	0.1842	0.08	10544.6733
	R2408254-009A	Cu (327.395 nm)	0.2329	0.17	10504.3841
	R2408254-009A	Fe (234.350 nm)	0.9548	0.52	21447.3226
	R2408254-009A	K (766.491 nm)	18.7373	0.25	23302.0268
	R2408254-009A	Mg (279.078 nm)	2.5886	0.06	10311.6862
	R2408254-009A	Mn (257.610 nm)	0.4617	0.13	157891.6362
	R2408254-009A	Mo (202.032 nm)	0.4300	3.26	4584.2678
	R2408254-009A	Na (588.995 nm)	26.7627	0.44	367553.7546
	R2408254-009A	Ni (230.299 nm)	0.4571	0.12	5870.4214
	R2408254-009A	Pb (220.353 nm)	0.4777	0.27	2376.7196
	R2408254-009A	Sb (217.582 nm)	0.4481	1.88	1039.1500
	R2408254-009A	Se (196.026 nm)	0.9507	0.83	703.2923
	R2408254-009A	Si (252.851 nm)	0.7098	0.28	4550.1276
	R2408254-009A	Sn (189.925 nm)	4.3425	0.65	11196.1480
	R2408254-009A	Sr (216.596 nm)	1.8678	0.13	35079.6746
	R2408254-009A	Ti (336.122 nm)	0.4578	0.18	68126.5927
	R2408254-009A	Tl (190.794 nm)	1.8581	0.24	1675.3554
	R2408254-009A	V (292.401 nm)	0.4539	0.14	16400.0261
	R2408254-009A	Y (360.074 nm)	1.05	0.19	686585.96
	R2408254-009A	Y_R (360.074 nm)	1.05	0.19	686920.00
	R2408254-009A	Zn (213.857 nm)	0.4862	0.14	28741.3633
9/6/2024 22:39:27	Continuing Calibration Verification1	Ag (328.068 nm)	0.4830	1.89	28563.4068
	Continuing Calibration Verification1	Al (237.312 nm)	9.2063	1.86	23850.8226
	Continuing Calibration Verification1	As (188.980 nm)	0.9285	1.93	1512.3385
	Continuing Calibration Verification1	B (249.772 nm)	2.1425 Q	1.85	90475.8566 Q
	Continuing Calibration Verification1	Ba (230.424 nm)	9.1599	1.89	564759.6438
	Continuing Calibration Verification1	Be (313.107 nm)	0.2356	1.89	275809.0666
	Continuing Calibration Verification1	Ca (317.933 nm)	24.1379	2.01	900072.2226
	Continuing Calibration Verification1	Cd (214.439 nm)	0.4720	1.89	28293.5200
	Continuing Calibration Verification1	Co (230.786 nm)	2.3454	2.24	47356.9304
	Continuing Calibration Verification1	Cr (267.716 nm)	0.4830	1.99	27635.4821
	Continuing Calibration Verification1	Cu (327.395 nm)	1.1736	1.82	52926.0107
	Continuing Calibration Verification1	Fe (234.350 nm)	4.6837	2.02	104930.3200
	Continuing Calibration Verification1	K (766.491 nm)	23.4420	1.87	28959.7277
	Continuing Calibration Verification1	Mg (279.078 nm)	24.2764	2.01	96701.6824
	Continuing Calibration Verification1	Mn (257.610 nm)	0.6957	1.93	237885.4618
	Continuing Calibration Verification1	Mo (202.032 nm)	2.4220	2.44	25791.5082
	Continuing Calibration Verification1	Na (588.995 nm)	23.8824	1.80	326604.3342
	Continuing Calibration Verification1	Ni (230.299 nm)	1.8975	1.96	24360.3410
	Continuing Calibration Verification1	Pb (220.353 nm)	0.4759	2.28	2367.8093
	Continuing Calibration Verification1	Sb (217.582 nm)	4.6381	1.85	10714.2043
	Continuing Calibration Verification1	Se (196.026 nm)	0.4620	3.18	343.1083
	Continuing Calibration Verification1	Si (252.851 nm)	9.1590	2.12	57870.2293
	Continuing Calibration Verification1	Sn (189.925 nm)	4.9684	2.51	12809.2440
	Continuing Calibration Verification1	Sr (216.596 nm)	2.3656	2.02	44427.7566
	Continuing Calibration Verification1	Ti (336.122 nm)	2.4489	1.99	364098.5555
	Continuing Calibration Verification1	Tl (190.794 nm)	0.9610	1.85	866.0953
	Continuing Calibration Verification1	V (292.401 nm)	2.4030	1.88	86790.1650
	Continuing Calibration Verification1	Y (360.074 nm)	1.00	1.54	655316.37

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification1	Y_R (360.074 nm)	1.00	1.54	655630.82
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9390	1.95	55499.0817
9/6/2024 22:42:31	Continuing Calibration Blank1	Ag (328.068 nm)	0.0000 u	> 100.00	18.3437
	Continuing Calibration Blank1	Al (237.312 nm)	0.0012	96.60	-7.9248
	Continuing Calibration Blank1	As (188.980 nm)	0.0024	33.13	0.1102
	Continuing Calibration Blank1	B (249.772 nm)	0.0003	64.24	126.3095
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0005	20.71	38.5476
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000 u	> 100.00	-9.7032
	Continuing Calibration Blank1	Ca (317.933 nm)	-0.0009 u	34.31	3479.2325
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000 u	> 100.00	8.7462
	Continuing Calibration Blank1	Co (230.786 nm)	0.0000	26.51	2.0301
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0001	80.48	9.2261
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0001 u	> 100.00	3.4192
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0034	14.90	148.1266
	Continuing Calibration Blank1	K (766.491 nm)	-0.0378 u	50.76	723.9138
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0007 u	> 100.00	3.3578
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0000	19.22	25.3978
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0075	8.08	86.0135
	Continuing Calibration Blank1	Na (588.995 nm)	0.0088	48.20	-12801.4774
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0002	83.74	5.9611
	Continuing Calibration Blank1	Pb (220.353 nm)	0.0000 u	> 100.00	-0.7658
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0140	8.82	36.6532
	Continuing Calibration Blank1	Se (196.026 nm)	-0.0016 u	95.79	1.3443
	Continuing Calibration Blank1	Si (252.851 nm)	0.0062	17.65	109.9117
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0221	46.66	61.2516
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0001 u	> 100.00	7.0187
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0067	24.72	1063.2160
	Continuing Calibration Blank1	Tl (190.794 nm)	-0.0006 u	69.05	-1.4885
	Continuing Calibration Blank1	V (292.401 nm)	0.0003	16.80	21.0821
	Continuing Calibration Blank1	Y (360.074 nm)	1.06	0.38	693863.02
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.06	0.38	694199.06
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0001	15.88	17.9901
9/6/2024 22:45:35	R2408254-009L 5X	Ag (328.068 nm)	0.0000 u	> 100.00	15.5145
	R2408254-009L 5X	Al (237.312 nm)	0.0059	21.52	4.3174
	R2408254-009L 5X	As (188.980 nm)	0.0010 u	> 100.00	-2.3324
	R2408254-009L 5X	B (249.772 nm)	0.0004	31.90	130.5880
	R2408254-009L 5X	Ba (230.424 nm)	0.0057	1.17	358.7076
	R2408254-009L 5X	Be (313.107 nm)	0.0000 u	> 100.00	-16.3985
	R2408254-009L 5X	Ca (317.933 nm)	0.8436	0.10	34844.7288
	R2408254-009L 5X	Cd (214.439 nm)	0.0000 u	> 100.00	9.4930
	R2408254-009L 5X	Co (230.786 nm)	0.0001 u	> 100.00	2.8311
	R2408254-009L 5X	Cr (267.716 nm)	0.0001	79.66	11.6092
	R2408254-009L 5X	Cu (327.395 nm)	0.0000 u	> 100.00	1.3438
	R2408254-009L 5X	Fe (234.350 nm)	0.0125	3.41	351.1795
	R2408254-009L 5X	K (766.491 nm)	0.1079	36.95	899.1567
	R2408254-009L 5X	Mg (279.078 nm)	0.1570	1.22	625.6123
	R2408254-009L 5X	Mn (257.610 nm)	0.0035	0.29	1215.2724
	R2408254-009L 5X	Mo (202.032 nm)	0.0019	23.15	26.5499
	R2408254-009L 5X	Na (588.995 nm)	1.7235	0.37	11576.2687
	R2408254-009L 5X	Ni (230.299 nm)	0.0003	14.81	6.4625
	R2408254-009L 5X	Pb (220.353 nm)	-0.0001 u	> 100.00	-1.0855
	R2408254-009L 5X	Sb (217.582 nm)	0.0047	45.32	15.1969
	R2408254-009L 5X	Se (196.026 nm)	-0.0016 u	> 100.00	1.3148
	R2408254-009L 5X	Si (252.851 nm)	0.0817	2.74	586.5582
	R2408254-009L 5X	Sn (189.925 nm)	0.0139	50.26	40.2390
	R2408254-009L 5X	Sr (216.596 nm)	0.0066	1.10	129.2277
	R2408254-009L 5X	Ti (336.122 nm)	0.0020	37.59	366.8122

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408254-009L 5X	Tl (190.794 nm)	0.0004 u	> 100.00	-0.5319
	R2408254-009L 5X	V (292.401 nm)	-0.0001 u	> 100.00	7.2418
	R2408254-009L 5X	Y (360.074 nm)	1.07	0.32	701321.61
	R2408254-009L 5X	Y_R (360.074 nm)	1.07	0.32	701665.24
	R2408254-009L 5X	Zn (213.857 nm)	0.0006	4.64	43.2940
9/6/2024 22:48:39	R2408254-011	Ag (328.068 nm)	0.0000 u	> 100.00	20.0592
	R2408254-011	Al (237.312 nm)	0.0017 u	> 100.00	-6.6272
	R2408254-011	As (188.980 nm)	0.0030	63.86	0.9782
	R2408254-011	B (249.772 nm)	-0.0012 u	12.30	64.7825
	R2408254-011	Ba (230.424 nm)	0.0001	91.58	12.9681
	R2408254-011	Be (313.107 nm)	0.0000 u	> 100.00	-20.9289
	R2408254-011	Ca (317.933 nm)	0.0292	17.04	4596.5274
	R2408254-011	Cd (214.439 nm)	0.0001	26.66	12.1298
	R2408254-011	Co (230.786 nm)	0.0000 u	> 100.00	1.2360
	R2408254-011	Cr (267.716 nm)	0.0003	29.78	23.9950
	R2408254-011	Cu (327.395 nm)	0.0000 u	> 100.00	-1.1619
	R2408254-011	Fe (234.350 nm)	0.0015	18.21	104.7124
	R2408254-011	K (766.491 nm)	-0.0287 u	> 100.00	734.8522
	R2408254-011	Mg (279.078 nm)	0.0013	26.29	5.3689
	R2408254-011	Mn (257.610 nm)	0.0002	9.25	92.2090
	R2408254-011	Mo (202.032 nm)	0.0010	25.61	17.0401
	R2408254-011	Na (588.995 nm)	-0.0137 u	> 100.00	-13120.7615
	R2408254-011	Ni (230.299 nm)	0.0004 u	> 100.00	7.7695
	R2408254-011	Pb (220.353 nm)	0.0002 u	> 100.00	0.3702
	R2408254-011	Sb (217.582 nm)	0.0026	37.01	10.3220
	R2408254-011	Se (196.026 nm)	-0.0012 u	> 100.00	1.6559
	R2408254-011	Si (252.851 nm)	0.0219	3.91	209.4764
	R2408254-011	Sn (189.925 nm)	0.0100	34.74	30.1537
	R2408254-011	Sr (216.596 nm)	0.0002	86.50	9.6090
	R2408254-011	Ti (336.122 nm)	0.0011	36.34	237.0811
	R2408254-011	Tl (190.794 nm)	0.0006 u	> 100.00	-0.3902
	R2408254-011	V (292.401 nm)	0.0000 u	> 100.00	9.2453
	R2408254-011	Y (360.074 nm)	1.04	6.08	684050.64
	R2408254-011	Y_R (360.074 nm)	1.04	6.08	684387.56
	R2408254-011	Zn (213.857 nm)	0.0018	9.66	119.3128
9/6/2024 22:51:42	R2408254-013	Ag (328.068 nm)	-0.0001 u	62.90	14.1483
	R2408254-013	Al (237.312 nm)	0.0105	7.60	16.2043
	R2408254-013	As (188.980 nm)	0.0011 u	> 100.00	-2.0812
	R2408254-013	B (249.772 nm)	0.0034	2.96	259.0497
	R2408254-013	Ba (230.424 nm)	0.0215	0.18	1335.6169
	R2408254-013	Be (313.107 nm)	0.0000	20.80	-9.5773
	R2408254-013	Ca (317.933 nm)	6.3128	0.09	237989.4891
	R2408254-013	Cd (214.439 nm)	0.0000 u	> 100.00	7.0536
	R2408254-013	Co (230.786 nm)	0.0002	76.80	5.8974
	R2408254-013	Cr (267.716 nm)	0.0016	4.45	97.3341
	R2408254-013	Cu (327.395 nm)	0.0001	54.70	6.4134
	R2408254-013	Fe (234.350 nm)	0.0453	1.48	1084.5117
	R2408254-013	K (766.491 nm)	0.4730	4.14	1338.2001
	R2408254-013	Mg (279.078 nm)	1.3129	0.16	5230.0908
	R2408254-013	Mn (257.610 nm)	0.0118	0.16	4040.9181
	R2408254-013	Mo (202.032 nm)	0.0006	62.61	12.1055
	R2408254-013	Na (588.995 nm)	6.5813	0.37	80639.0359
	R2408254-013	Ni (230.299 nm)	0.0014	20.90	20.4483
	R2408254-013	Pb (220.353 nm)	-0.0003 u	> 100.00	-2.1307
	R2408254-013	Sb (217.582 nm)	0.0024	85.27	9.7537
	R2408254-013	Se (196.026 nm)	0.0006	38.31	2.9559
	R2408254-013	Si (252.851 nm)	0.3875	0.46	2516.6333

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408254-013	Sn (189.925 nm)	0.0077	42.85	24.1255
	R2408254-013	Sr (216.596 nm)	0.0239	0.86	454.5091
	R2408254-013	Ti (336.122 nm)	0.0006	51.25	164.8363
	R2408254-013	Tl (190.794 nm)	0.0004 u	> 100.00	-0.5504
	R2408254-013	V (292.401 nm)	0.0001 u	> 100.00	14.0686
	R2408254-013	Y (360.074 nm)	1.07	0.35	701868.61
	R2408254-013	Y_R (360.074 nm)	1.07	0.35	702202.89
	R2408254-013	Zn (213.857 nm)	0.0018	3.90	114.0984
9/6/2024 22:54:46	R2408254-015	Ag (328.068 nm)	-0.0001 u	41.58	12.4387
	R2408254-015	Al (237.312 nm)	0.0104	9.89	15.9751
	R2408254-015	As (188.980 nm)	0.0008 u	> 100.00	-2.5290
	R2408254-015	B (249.772 nm)	0.0063	1.64	378.3037
	R2408254-015	Ba (230.424 nm)	0.0481	0.15	2976.5003
	R2408254-015	Be (313.107 nm)	0.0000 u	> 100.00	-11.8550
	R2408254-015	Ca (317.933 nm)	10.1043	0.01	378819.9200
	R2408254-015	Cd (214.439 nm)	0.0000 u	> 100.00	9.0522
	R2408254-015	Co (230.786 nm)	0.0000 u	> 100.00	2.3154
	R2408254-015	Cr (267.716 nm)	0.0003	13.68	25.2927
	R2408254-015	Cu (327.395 nm)	0.0001 u	95.95	5.5320
	R2408254-015	Fe (234.350 nm)	0.0332	1.78	814.3430
	R2408254-015	K (766.491 nm)	1.1363	0.73	2135.8207
	R2408254-015	Mg (279.078 nm)	1.6676	0.12	6643.0670
	R2408254-015	Mn (257.610 nm)	0.0216	0.02	7407.3385
	R2408254-015	Mo (202.032 nm)	0.0003	37.18	9.7304
	R2408254-015	Na (588.995 nm)	11.3221	0.37	148036.8732
	R2408254-015	Ni (230.299 nm)	0.0012	15.73	18.5015
	R2408254-015	Pb (220.353 nm)	-0.0002 u	> 100.00	-1.6708
	R2408254-015	Sb (217.582 nm)	0.0006 u	> 100.00	5.6571
	R2408254-015	Se (196.026 nm)	-0.0018 u	> 100.00	1.1958
	R2408254-015	Si (252.851 nm)	0.3135	0.27	2049.2910
	R2408254-015	Sn (189.925 nm)	0.0064	34.25	20.8962
	R2408254-015	Sr (216.596 nm)	0.0497	0.22	939.4215
	R2408254-015	Ti (336.122 nm)	0.0005	45.09	145.5942
	R2408254-015	Tl (190.794 nm)	-0.0011 u	72.59	-1.9177
	R2408254-015	V (292.401 nm)	0.0001	63.31	14.4909
	R2408254-015	Y (360.074 nm)	1.07	0.25	697973.91
	R2408254-015	Y_R (360.074 nm)	1.07	0.25	698301.95
	R2408254-015	Zn (213.857 nm)	0.0021	1.18	134.0567
9/6/2024 22:57:49	R2408254-017	Ag (328.068 nm)	0.0000 u	> 100.00	14.9382
	R2408254-017	Al (237.312 nm)	0.0105	4.15	16.3421
	R2408254-017	As (188.980 nm)	0.0002 u	> 100.00	-3.6374
	R2408254-017	B (249.772 nm)	0.0061	4.18	371.6530
	R2408254-017	Ba (230.424 nm)	0.0480	4.16	2964.8770
	R2408254-017	Be (313.107 nm)	0.0000 u	> 100.00	-14.4072
	R2408254-017	Ca (317.933 nm)	10.2128	4.01	382849.2698
	R2408254-017	Cd (214.439 nm)	0.0001	10.45	12.2632
	R2408254-017	Co (230.786 nm)	0.0002 u	> 100.00	4.3800
	R2408254-017	Cr (267.716 nm)	0.0003	36.75	22.5941
	R2408254-017	Cu (327.395 nm)	0.0002	48.11	9.8875
	R2408254-017	Fe (234.350 nm)	0.0297	5.71	736.4622
	R2408254-017	K (766.491 nm)	1.1729	4.88	2179.8768
	R2408254-017	Mg (279.078 nm)	1.6760	4.00	6676.4834
	R2408254-017	Mn (257.610 nm)	0.0134	3.96	4589.8319
	R2408254-017	Mo (202.032 nm)	0.0004	32.41	10.6200
	R2408254-017	Na (588.995 nm)	11.3664	3.88	148667.8718
	R2408254-017	Ni (230.299 nm)	0.0015	24.00	22.1041
	R2408254-017	Pb (220.353 nm)	-0.0001 u	> 100.00	-1.1959

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408254-017	Sb (217.582 nm)	0.0007	90.17	6.0406
	R2408254-017	Se (196.026 nm)	-0.0026 u	87.72	0.6082
	R2408254-017	Si (252.851 nm)	0.3874	4.18	2515.7917
	R2408254-017	Sn (189.925 nm)	0.0046	40.38	16.2171
	R2408254-017	Sr (216.596 nm)	0.0504	4.15	952.0773
	R2408254-017	Ti (336.122 nm)	0.0005	20.94	149.1675
	R2408254-017	Tl (190.794 nm)	-0.0007 u	> 100.00	-1.5480
	R2408254-017	V (292.401 nm)	0.0001 u	> 100.00	11.8877
	R2408254-017	Y (360.074 nm)	1.04	3.53	683825.99
	R2408254-017	Y_R (360.074 nm)	1.04	3.53	684158.74
	R2408254-017	Zn (213.857 nm)	0.0017	7.11	113.6980
9/6/2024 23:00:53	R2408254-019	Ag (328.068 nm)	-0.0001 u	27.72	13.2516
	R2408254-019	Al (237.312 nm)	0.0121	14.23	20.4857
	R2408254-019	As (188.980 nm)	0.0012	62.85	-1.9366
	R2408254-019	B (249.772 nm)	0.0074	1.02	424.9139
	R2408254-019	Ba (230.424 nm)	0.0427	0.31	2640.6216
	R2408254-019	Be (313.107 nm)	0.0000 u	> 100.00	-11.8422
	R2408254-019	Ca (317.933 nm)	9.9947	0.13	374746.8777
	R2408254-019	Cd (214.439 nm)	0.0000 u	> 100.00	7.4004
	R2408254-019	Co (230.786 nm)	0.0000	87.55	2.2793
	R2408254-019	Cr (267.716 nm)	0.0004	5.39	27.5743
	R2408254-019	Cu (327.395 nm)	0.0002	26.56	9.4472
	R2408254-019	Fe (234.350 nm)	0.0490	1.87	1167.8066
	R2408254-019	K (766.491 nm)	1.2730	2.26	2300.3141
	R2408254-019	Mg (279.078 nm)	1.8030	0.18	7182.3643
	R2408254-019	Mn (257.610 nm)	0.0183	0.39	6270.3136
	R2408254-019	Mo (202.032 nm)	0.0002	31.91	8.1879
	R2408254-019	Na (588.995 nm)	13.4607	0.46	178441.8314
	R2408254-019	Ni (230.299 nm)	0.0019	6.31	27.0344
	R2408254-019	Pb (220.353 nm)	0.0000 u	> 100.00	-0.3759
	R2408254-019	Sb (217.582 nm)	0.0013	15.46	7.3385
	R2408254-019	Se (196.026 nm)	0.0003 u	> 100.00	2.7756
	R2408254-019	Si (252.851 nm)	0.4020	0.22	2607.9244
	R2408254-019	Sn (189.925 nm)	0.0040	25.67	14.7332
	R2408254-019	Sr (216.596 nm)	0.0553	0.57	1044.8778
	R2408254-019	Ti (336.122 nm)	0.0004	34.86	125.2486
	R2408254-019	Tl (190.794 nm)	0.0004 u	> 100.00	-0.5275
	R2408254-019	V (292.401 nm)	0.0002	> 100.00	15.9198
	R2408254-019	Y (360.074 nm)	1.06	0.23	695762.93
	R2408254-019	Y_R (360.074 nm)	1.06	0.23	696106.01
	R2408254-019	Zn (213.857 nm)	0.0024	4.85	151.6759
9/6/2024 23:03:57	R2408254-021	Ag (328.068 nm)	0.0000 u	> 100.00	17.0099
	R2408254-021	Al (237.312 nm)	0.0112	11.33	17.9238
	R2408254-021	As (188.980 nm)	0.0040	15.87	2.5734
	R2408254-021	B (249.772 nm)	0.0041	2.91	284.8451
	R2408254-021	Ba (230.424 nm)	0.0487	0.16	3010.6206
	R2408254-021	Be (313.107 nm)	0.0000 u	> 100.00	-11.0320
	R2408254-021	Ca (317.933 nm)	10.0020	0.14	375017.5065
	R2408254-021	Cd (214.439 nm)	0.0000	87.91	9.4963
	R2408254-021	Co (230.786 nm)	0.0000 u	> 100.00	1.4982
	R2408254-021	Cr (267.716 nm)	0.0003	15.11	25.1209
	R2408254-021	Cu (327.395 nm)	0.0003	29.88	12.2886
	R2408254-021	Fe (234.350 nm)	0.0171	0.83	453.1065
	R2408254-021	K (766.491 nm)	0.9997	1.20	1971.6108
	R2408254-021	Mg (279.078 nm)	1.4386	0.09	5730.7297
	R2408254-021	Mn (257.610 nm)	0.0082	0.29	2800.7568
	R2408254-021	Mo (202.032 nm)	-0.0001 u	> 100.00	5.4654

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408254-021	Na (588.995 nm)	8.5349	0.38	108411.7645
	R2408254-021	Ni (230.299 nm)	0.0022	11.64	31.5223
	R2408254-021	Pb (220.353 nm)	-0.0007 u	> 100.00	-4.1552
	R2408254-021	Sb (217.582 nm)	0.0006 u	> 100.00	5.8224
	R2408254-021	Se (196.026 nm)	-0.0021 u	> 100.00	0.9916
	R2408254-021	Si (252.851 nm)	0.7126	0.11	4567.6849
	R2408254-021	Sn (189.925 nm)	0.0032	63.21	12.5016
	R2408254-021	Sr (216.596 nm)	0.0426	0.29	806.4990
	R2408254-021	Ti (336.122 nm)	0.0003	50.05	120.7760
	R2408254-021	Tl (190.794 nm)	0.0002 u	> 100.00	-0.7450
	R2408254-021	V (292.401 nm)	0.0002 u	> 100.00	15.7237
	R2408254-021	Y (360.074 nm)	1.07	0.38	699317.78
	R2408254-021	Y_R (360.074 nm)	1.07	0.38	699778.33
	R2408254-021	Zn (213.857 nm)	0.0154	0.47	921.2574
9/6/2024 23:07:01	R2408254-023	Ag (328.068 nm)	0.0000 u	> 100.00	14.7126
	R2408254-023	Al (237.312 nm)	0.0134	8.05	23.6472
	R2408254-023	As (188.980 nm)	0.0027	> 100.00	0.4605
	R2408254-023	B (249.772 nm)	0.0074	1.50	426.2800
	R2408254-023	Ba (230.424 nm)	0.0267	2.67	1656.0281
	R2408254-023	Be (313.107 nm)	0.0000 u	> 100.00	-18.3603
	R2408254-023	Ca (317.933 nm)	10.1430	2.24	380254.4808
	R2408254-023	Cd (214.439 nm)	0.0000 u	> 100.00	9.9160
	R2408254-023	Co (230.786 nm)	0.0000 u	> 100.00	0.7614
	R2408254-023	Cr (267.716 nm)	0.0005	6.22	36.4325
	R2408254-023	Cu (327.395 nm)	0.0002	11.36	9.9968
	R2408254-023	Fe (234.350 nm)	0.0379	4.40	919.3617
	R2408254-023	K (766.491 nm)	0.9819	4.79	1950.2609
	R2408254-023	Mg (279.078 nm)	2.5422	2.24	10126.6738
	R2408254-023	Mn (257.610 nm)	0.0080	2.23	2733.2536
	R2408254-023	Mo (202.032 nm)	0.0004	65.39	10.2919
	R2408254-023	Na (588.995 nm)	13.1545	2.42	174087.8573
	R2408254-023	Ni (230.299 nm)	0.0020	20.40	28.2129
	R2408254-023	Pb (220.353 nm)	-0.0002 u	> 100.00	-1.4674
	R2408254-023	Sb (217.582 nm)	0.0008 u	> 100.00	6.1597
	R2408254-023	Se (196.026 nm)	-0.0020 u	33.54	1.0597
	R2408254-023	Si (252.851 nm)	0.4838	2.34	3124.0529
	R2408254-023	Sn (189.925 nm)	0.0028	56.44	11.5383
	R2408254-023	Sr (216.596 nm)	0.0292	2.26	553.2896
	R2408254-023	Ti (336.122 nm)	0.0004	22.08	125.6028
	R2408254-023	Tl (190.794 nm)	0.0001 u	> 100.00	-0.8749
	R2408254-023	V (292.401 nm)	0.0001 u	> 100.00	14.1151
	R2408254-023	Y (360.074 nm)	1.05	2.04	687318.35
	R2408254-023	Y_R (360.074 nm)	1.05	2.04	687668.32
	R2408254-023	Zn (213.857 nm)	0.0020	1.44	125.7625
9/6/2024 23:10:06	R2408254-025	Ag (328.068 nm)	0.0000 u	76.14	15.0818
	R2408254-025	Al (237.312 nm)	0.0251	8.45	54.1785
	R2408254-025	As (188.980 nm)	0.0019	45.03	-0.7447
	R2408254-025	B (249.772 nm)	0.0042	1.85	290.2664
	R2408254-025	Ba (230.424 nm)	0.0182	0.20	1130.6658
	R2408254-025	Be (313.107 nm)	0.0000 u	> 100.00	-18.3204
	R2408254-025	Ca (317.933 nm)	8.0599	0.09	302882.4415
	R2408254-025	Cd (214.439 nm)	0.0000 u	> 100.00	9.6760
	R2408254-025	Co (230.786 nm)	0.0001	94.94	4.1050
	R2408254-025	Cr (267.716 nm)	0.0002	12.02	18.4063
	R2408254-025	Cu (327.395 nm)	0.0003	54.39	13.6182
	R2408254-025	Fe (234.350 nm)	0.1036	1.74	2391.4530
	R2408254-025	K (766.491 nm)	0.4914	4.94	1360.3342

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408254-025	Mg (279.078 nm)	2.1983	0.15	8756.9652
	R2408254-025	Mn (257.610 nm)	0.0443	0.02	15151.4636
	R2408254-025	Mo (202.032 nm)	-0.0001 u	> 100.00	4.8679
	R2408254-025	Na (588.995 nm)	7.6609	0.38	95987.2131
	R2408254-025	Ni (230.299 nm)	0.0044	12.16	59.7087
	R2408254-025	Pb (220.353 nm)	0.0001 u	> 100.00	0.1963
	R2408254-025	Sb (217.582 nm)	0.0018	58.68	8.4721
	R2408254-025	Se (196.026 nm)	-0.0025 u	73.83	0.6746
	R2408254-025	Si (252.851 nm)	1.3580	0.09	8640.6268
	R2408254-025	Sn (189.925 nm)	0.0028	42.07	11.4921
	R2408254-025	Sr (216.596 nm)	0.0227	0.21	432.8445
	R2408254-025	Ti (336.122 nm)	0.0003	31.56	117.3738
	R2408254-025	Tl (190.794 nm)	-0.0009 u	> 100.00	-1.7076
	R2408254-025	V (292.401 nm)	0.0002	42.22	18.2931
	R2408254-025	Y (360.074 nm)	1.07	0.12	698442.38
	R2408254-025	Y_R (360.074 nm)	1.07	0.12	698822.50
	R2408254-025	Zn (213.857 nm)	0.0016	2.33	104.6141
9/6/2024 23:13:11	R2408254-027	Ag (328.068 nm)	0.0000 u	> 100.00	18.5672
	R2408254-027	Al (237.312 nm)	0.0106	8.73	16.5159
	R2408254-027	As (188.980 nm)	0.0008	58.99	-2.6153
	R2408254-027	B (249.772 nm)	0.0037	1.87	270.2769
	R2408254-027	Ba (230.424 nm)	0.0158	0.22	980.5464
	R2408254-027	Be (313.107 nm)	0.0000	> 100.00	-12.1885
	R2408254-027	Ca (317.933 nm)	5.5089	0.17	208130.5654
	R2408254-027	Cd (214.439 nm)	-0.0001 u	40.82	4.4789
	R2408254-027	Co (230.786 nm)	0.0002	68.14	5.1426
	R2408254-027	Cr (267.716 nm)	0.0002	14.13	18.1866
	R2408254-027	Cu (327.395 nm)	0.0001	53.32	4.7079
	R2408254-027	Fe (234.350 nm)	0.0203	1.33	525.2522
	R2408254-027	K (766.491 nm)	0.4709	5.62	1335.7209
	R2408254-027	Mg (279.078 nm)	1.6190	0.19	6449.4979
	R2408254-027	Mn (257.610 nm)	0.0043	0.25	1469.4110
	R2408254-027	Mo (202.032 nm)	0.0002	47.92	8.4000
	R2408254-027	Na (588.995 nm)	4.5446	0.55	51683.0900
	R2408254-027	Ni (230.299 nm)	0.0030	5.95	41.0904
	R2408254-027	Pb (220.353 nm)	0.0003 u	91.74	0.8665
	R2408254-027	Sb (217.582 nm)	0.0013 u	90.38	7.2360
	R2408254-027	Se (196.026 nm)	0.0004 u	> 100.00	2.7985
	R2408254-027	Si (252.851 nm)	1.1429	0.25	7283.3261
	R2408254-027	Sn (189.925 nm)	0.0019	24.98	9.3181
	R2408254-027	Sr (216.596 nm)	0.0154	0.84	294.8272
	R2408254-027	Ti (336.122 nm)	0.0002	25.17	98.8904
	R2408254-027	Tl (190.794 nm)	-0.0015 u	40.11	-2.2833
	R2408254-027	V (292.401 nm)	0.0000 u	> 100.00	9.8325
	R2408254-027	Y (360.074 nm)	1.07	0.22	703041.88
	R2408254-027	Y_R (360.074 nm)	1.07	0.22	703423.15
	R2408254-027	Zn (213.857 nm)	0.0026	2.69	165.3372
9/6/2024 23:16:16	Continuing Calibration Verification1	Ag (328.068 nm)	0.4787	0.34	28307.8064
	Continuing Calibration Verification1	Al (237.312 nm)	9.0990	0.42	23572.7214
	Continuing Calibration Verification1	As (188.980 nm)	0.9176	0.28	1494.5652
	Continuing Calibration Verification1	B (249.772 nm)	2.1202 Q	0.12	89535.9950 Q
	Continuing Calibration Verification1	Ba (230.424 nm)	9.0959	0.33	560812.0481
	Continuing Calibration Verification1	Be (313.107 nm)	0.2335	0.06	273348.0572
	Continuing Calibration Verification1	Ca (317.933 nm)	23.9612	0.13	893507.5673
	Continuing Calibration Verification1	Cd (214.439 nm)	0.4685	0.13	28086.0258
	Continuing Calibration Verification1	Co (230.786 nm)	2.3239	0.15	46922.4162
	Continuing Calibration Verification1	Cr (267.716 nm)	0.4790	0.11	27405.6913

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification1	Cu (327.395 nm)	1.1606	0.24	52337.5088
	Continuing Calibration Verification1	Fe (234.350 nm)	4.6311	0.19	103753.6117
	Continuing Calibration Verification1	K (766.491 nm)	23.0774	0.35	28521.2092
	Continuing Calibration Verification1	Mg (279.078 nm)	24.0743	0.14	95896.6534
	Continuing Calibration Verification1	Mn (257.610 nm)	0.6887	0.05	235503.0936
	Continuing Calibration Verification1	Mo (202.032 nm)	2.3851	1.10	25398.4698
	Continuing Calibration Verification1	Na (588.995 nm)	23.5930	0.65	322490.1923
	Continuing Calibration Verification1	Ni (230.299 nm)	1.8812	0.09	24150.8820
	Continuing Calibration Verification1	Pb (220.353 nm)	0.4722	0.25	2349.5437
	Continuing Calibration Verification1	Sb (217.582 nm)	4.5697	0.18	10556.2530
	Continuing Calibration Verification1	Se (196.026 nm)	0.4476 Q	1.14	332.4835 Q
	Continuing Calibration Verification1	Si (252.851 nm)	9.0710	0.49	57314.8038
	Continuing Calibration Verification1	Sn (189.925 nm)	4.7732	0.20	12306.1617
	Continuing Calibration Verification1	Sr (216.596 nm)	2.3471	0.39	44080.2586
	Continuing Calibration Verification1	Ti (336.122 nm)	2.4115	0.14	358532.3881
	Continuing Calibration Verification1	Tl (190.794 nm)	0.9493	0.24	855.4996
	Continuing Calibration Verification1	V (292.401 nm)	2.3814	0.06	86011.1193
	Continuing Calibration Verification1	Y (360.074 nm)	1.00	0.68	658191.19
	Continuing Calibration Verification1	Y_R (360.074 nm)	1.00	0.68	658538.20
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9312	0.16	55034.2853
9/6/2024 23:19:20	Continuing Calibration Blank1	Ag (328.068 nm)	0.0001 u	> 100.00	21.1316
	Continuing Calibration Blank1	Al (237.312 nm)	0.0008 u	> 100.00	-8.8103
	Continuing Calibration Blank1	As (188.980 nm)	0.0012 u	> 100.00	-1.8512
	Continuing Calibration Blank1	B (249.772 nm)	0.0000 u	> 100.00	112.2129
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0005	9.39	42.1651
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000	> 100.00	-9.9113
	Continuing Calibration Blank1	Ca (317.933 nm)	-0.0010 u	14.87	3474.0054
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000 u	> 100.00	10.3979
	Continuing Calibration Blank1	Co (230.786 nm)	0.0001	> 100.00	2.6520
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0000 u	> 100.00	5.2964
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0000 u	> 100.00	0.3698
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0047	19.80	177.2225
	Continuing Calibration Blank1	K (766.491 nm)	-0.0072 u	> 100.00	760.7685
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0009	51.02	3.9173
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0001	20.67	30.9065
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0077	6.12	88.2588
	Continuing Calibration Blank1	Na (588.995 nm)	-0.0005 u	> 100.00	-12933.5275
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0003	64.47	6.3352
	Continuing Calibration Blank1	Pb (220.353 nm)	-0.0001 u	> 100.00	-0.8557
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0106	10.01	28.8105
	Continuing Calibration Blank1	Se (196.026 nm)	0.0007 u	> 100.00	3.0026
	Continuing Calibration Blank1	Si (252.851 nm)	0.0061	47.59	109.2305
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0039	55.91	14.3501
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0001 u	> 100.00	6.8252
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0076	26.34	1200.0199
	Continuing Calibration Blank1	Tl (190.794 nm)	-0.0003 u	> 100.00	-1.1483
	Continuing Calibration Blank1	V (292.401 nm)	0.0001	55.95	15.0902
	Continuing Calibration Blank1	Y (360.074 nm)	1.06	0.13	695242.53
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.06	0.13	695634.63
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0001	10.95	17.1634
9/6/2024 23:22:25	R2408254-029	Ag (328.068 nm)	0.0000 u	> 100.00	16.4742
	R2408254-029	Al (237.312 nm)	0.0121	14.03	20.2610
	R2408254-029	As (188.980 nm)	0.0006 u	> 100.00	-2.8303
	R2408254-029	B (249.772 nm)	0.0049	3.85	318.9628
	R2408254-029	Ba (230.424 nm)	0.0227	0.76	1406.6122
	R2408254-029	Be (313.107 nm)	0.0000	26.42	-7.5925
	R2408254-029	Ca (317.933 nm)	8.9909	0.15	337463.4637

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408254-029	Cd (214.439 nm)	0.0000 u	> 100.00	8.1891
	R2408254-029	Co (230.786 nm)	0.0000 u	> 100.00	1.8626
	R2408254-029	Cr (267.716 nm)	0.0005	4.26	33.8122
	R2408254-029	Cu (327.395 nm)	0.0003	13.33	13.9164
	R2408254-029	Fe (234.350 nm)	0.0251	1.95	634.0358
	R2408254-029	K (766.491 nm)	0.4964	5.63	1366.3607
	R2408254-029	Mg (279.078 nm)	2.0962	0.07	8350.4766
	R2408254-029	Mn (257.610 nm)	0.0064	0.07	2211.7769
	R2408254-029	Mo (202.032 nm)	0.0016	23.50	23.6825
	R2408254-029	Na (588.995 nm)	15.8244	0.46	212045.3465
	R2408254-029	Ni (230.299 nm)	0.0043	6.74	57.7637
	R2408254-029	Pb (220.353 nm)	-0.0002 u	> 100.00	-1.5832
	R2408254-029	Sb (217.582 nm)	0.0019	46.84	8.7301
	R2408254-029	Se (196.026 nm)	-0.0012 u	> 100.00	1.6154
	R2408254-029	Si (252.851 nm)	1.2807	0.22	8152.7401
	R2408254-029	Sn (189.925 nm)	0.0022	28.52	9.8609
	R2408254-029	Sr (216.596 nm)	0.0280	0.57	531.9129
	R2408254-029	Ti (336.122 nm)	0.0018	41.55	346.9608
	R2408254-029	Tl (190.794 nm)	-0.0003 u	> 100.00	-1.2186
	R2408254-029	V (292.401 nm)	0.0001 u	> 100.00	12.3074
	R2408254-029	Y (360.074 nm)	1.07	0.24	698200.33
	R2408254-029	Y_R (360.074 nm)	1.07	0.24	698597.05
	R2408254-029	Zn (213.857 nm)	0.0016	2.26	106.0831
9/6/2024 23:25:30	R2408254-031	Ag (328.068 nm)	0.0000 u	> 100.00	17.4138
	R2408254-031	Al (237.312 nm)	0.0555	3.92	132.7788
	R2408254-031	As (188.980 nm)	0.0027	87.46	0.4956
	R2408254-031	B (249.772 nm)	0.0084	1.69	466.3625
	R2408254-031	Ba (230.424 nm)	0.0315	0.26	1953.4698
	R2408254-031	Be (313.107 nm)	0.0000 u	> 100.00	-12.8809
	R2408254-031	Ca (317.933 nm)	10.0439	0.16	376574.1242
	R2408254-031	Cd (214.439 nm)	0.0000 u	> 100.00	8.4143
	R2408254-031	Co (230.786 nm)	0.0002	64.50	4.7908
	R2408254-031	Cr (267.716 nm)	0.0004	9.76	26.9999
	R2408254-031	Cu (327.395 nm)	0.0003	10.90	14.5885
	R2408254-031	Fe (234.350 nm)	0.1629	1.49	3718.5721
	R2408254-031	K (766.491 nm)	1.0954	2.33	2086.7119
	R2408254-031	Mg (279.078 nm)	2.3693	0.18	9437.9550
	R2408254-031	Mn (257.610 nm)	0.0310	0.18	10621.6569
	R2408254-031	Mo (202.032 nm)	0.0007	73.27	14.0352
	R2408254-031	Na (588.995 nm)	2.8557	0.33	27671.7262
	R2408254-031	Ni (230.299 nm)	0.0038	2.68	51.9150
	R2408254-031	Pb (220.353 nm)	0.0009	> 100.00	3.9527
	R2408254-031	Sb (217.582 nm)	-0.0008 u	2.10	2.5817
	R2408254-031	Se (196.026 nm)	0.0009 u	> 100.00	3.1755
	R2408254-031	Si (252.851 nm)	1.1119	0.13	7087.6416
	R2408254-031	Sn (189.925 nm)	0.0017	65.57	8.6924
	R2408254-031	Sr (216.596 nm)	0.0342	0.32	647.1475
	R2408254-031	Ti (336.122 nm)	0.0013	33.87	270.1234
	R2408254-031	Tl (190.794 nm)	-0.0012 u	> 100.00	-1.9702
	R2408254-031	V (292.401 nm)	0.0003	57.86	19.6089
	R2408254-031	Y (360.074 nm)	1.07	0.25	703568.72
	R2408254-031	Y_R (360.074 nm)	1.07	0.25	703981.36
	R2408254-031	Zn (213.857 nm)	0.0021	1.65	137.1534
9/6/2024 23:28:35	R2408254-033	Ag (328.068 nm)	0.0000 u	> 100.00	17.9465
	R2408254-033	Al (237.312 nm)	0.0165	1.50	31.6668
	R2408254-033	As (188.980 nm)	0.0031	49.31	1.1249
	R2408254-033	B (249.772 nm)	0.0026	1.56	223.1936

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408254-033	Ba (230.424 nm)	0.0182	0.27	1132.7159
	R2408254-033	Be (313.107 nm)	0.0000	51.64	-11.2418
	R2408254-033	Ca (317.933 nm)	5.8356	0.11	220263.6480
	R2408254-033	Cd (214.439 nm)	0.0000 u	> 100.00	9.7479
	R2408254-033	Co (230.786 nm)	0.0001 u	> 100.00	3.9751
	R2408254-033	Cr (267.716 nm)	0.0005	10.59	32.4783
	R2408254-033	Cu (327.395 nm)	0.0003	41.06	12.5188
	R2408254-033	Fe (234.350 nm)	0.0398	1.34	962.4025
	R2408254-033	K (766.491 nm)	0.3167	1.23	1150.2035
	R2408254-033	Mg (279.078 nm)	1.1308	0.22	4504.8751
	R2408254-033	Mn (257.610 nm)	0.0144	0.20	4934.7579
	R2408254-033	Mo (202.032 nm)	0.0005	36.45	11.1302
	R2408254-033	Na (588.995 nm)	5.9717	0.37	71971.4619
	R2408254-033	Ni (230.299 nm)	0.0017	15.68	24.6339
	R2408254-033	Pb (220.353 nm)	0.0003 u	> 100.00	0.7229
	R2408254-033	Sb (217.582 nm)	0.0009 u	> 100.00	6.4941
	R2408254-033	Se (196.026 nm)	-0.0005 u	> 100.00	2.1776
	R2408254-033	Si (252.851 nm)	0.5110	0.09	3295.7397
	R2408254-033	Sn (189.925 nm)	0.0008 u	98.18	6.4320
	R2408254-033	Sr (216.596 nm)	0.0217	0.71	412.5021
	R2408254-033	Ti (336.122 nm)	0.0006	42.78	167.6824
	R2408254-033	Tl (190.794 nm)	0.0010 u	> 100.00	-0.0016
	R2408254-033	V (292.401 nm)	0.0001 u	> 100.00	13.0526
	R2408254-033	Y (360.074 nm)	1.07	0.40	702841.30
	R2408254-033	Y_R (360.074 nm)	1.07	0.40	703241.35
	R2408254-033	Zn (213.857 nm)	0.0011	7.86	77.6439
9/6/2024 23:31:40	R2408254-035	Ag (328.068 nm)	-0.0001 u	95.11	13.6536
	R2408254-035	Al (237.312 nm)	0.0302	8.24	67.3267
	R2408254-035	As (188.980 nm)	0.0014	> 100.00	-1.5589
	R2408254-035	B (249.772 nm)	0.0033	1.83	252.7964
	R2408254-035	Ba (230.424 nm)	0.0181	0.41	1124.7988
	R2408254-035	Be (313.107 nm)	0.0000 u	> 100.00	-12.5927
	R2408254-035	Ca (317.933 nm)	6.2623	0.12	236114.2797
	R2408254-035	Cd (214.439 nm)	0.0000 u	> 100.00	8.2851
	R2408254-035	Co (230.786 nm)	0.0001 u	92.98	3.2397
	R2408254-035	Cr (267.716 nm)	0.0003	15.49	21.4933
	R2408254-035	Cu (327.395 nm)	0.0002	24.43	8.0112
	R2408254-035	Fe (234.350 nm)	0.1100	1.55	2533.3430
	R2408254-035	K (766.491 nm)	0.4902	1.07	1358.9583
	R2408254-035	Mg (279.078 nm)	1.5396	0.04	6133.3415
	R2408254-035	Mn (257.610 nm)	0.0310	0.14	10615.1039
	R2408254-035	Mo (202.032 nm)	0.0002 u	> 100.00	7.8985
	R2408254-035	Na (588.995 nm)	7.7054	0.34	96619.7165
	R2408254-035	Ni (230.299 nm)	0.0031	3.78	42.5858
	R2408254-035	Pb (220.353 nm)	0.0004 u	> 100.00	1.5295
	R2408254-035	Sb (217.582 nm)	-0.0014 u	27.62	1.1776
	R2408254-035	Se (196.026 nm)	-0.0002 u	> 100.00	2.4063
	R2408254-035	Si (252.851 nm)	0.9670	0.19	6173.1950
	R2408254-035	Sn (189.925 nm)	0.0013	67.20	7.6911
	R2408254-035	Sr (216.596 nm)	0.0199	0.21	378.7570
	R2408254-035	Ti (336.122 nm)	0.0008	27.16	184.8570
	R2408254-035	Tl (190.794 nm)	-0.0003 u	> 100.00	-1.2045
	R2408254-035	V (292.401 nm)	0.0002	17.58	17.2615
	R2408254-035	Y (360.074 nm)	1.07	0.15	702092.73
	R2408254-035	Y_R (360.074 nm)	1.07	0.16	702500.61
	R2408254-035	Zn (213.857 nm)	0.0024	1.78	151.8926
9/6/2024 23:34:46	R2408254-037	Ag (328.068 nm)	0.0000 u	90.60	16.5878

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408254-037	Al (237.312 nm)	0.0318	3.15	71.5361
	R2408254-037	As (188.980 nm)	0.0011 u	> 100.00	-2.0774
	R2408254-037	B (249.772 nm)	0.0069	4.82	406.2477
	R2408254-037	Ba (230.424 nm)	0.0281	2.18	1739.6696
	R2408254-037	Be (313.107 nm)	0.0000 u	> 100.00	-13.7518
	R2408254-037	Ca (317.933 nm)	8.3625	2.19	314121.8053
	R2408254-037	Cd (214.439 nm)	0.0000 u	34.92	6.9244
	R2408254-037	Co (230.786 nm)	0.0003	> 100.00	6.6289
	R2408254-037	Cr (267.716 nm)	0.0003	24.58	23.2332
	R2408254-037	Cu (327.395 nm)	0.0001	75.59	3.3574
	R2408254-037	Fe (234.350 nm)	0.0838	3.54	1946.9777
	R2408254-037	K (766.491 nm)	0.7712	1.58	1696.7725
	R2408254-037	Mg (279.078 nm)	2.3453	2.17	9342.6424
	R2408254-037	Mn (257.610 nm)	0.0204	2.23	6982.1692
	R2408254-037	Mo (202.032 nm)	0.0004	62.24	10.0576
	R2408254-037	Na (588.995 nm)	13.9743	2.49	185742.9540
	R2408254-037	Ni (230.299 nm)	0.0024	11.39	34.2590
	R2408254-037	Pb (220.353 nm)	0.0003 u	> 100.00	0.7495
	R2408254-037	Sb (217.582 nm)	0.0015	81.71	7.8296
	R2408254-037	Se (196.026 nm)	-0.0006 u	> 100.00	2.0962
	R2408254-037	Si (252.851 nm)	0.7761	2.13	4968.4672
	R2408254-037	Sn (189.925 nm)	0.0016	29.62	8.3367
	R2408254-037	Sr (216.596 nm)	0.0358	2.31	678.2490
	R2408254-037	Ti (336.122 nm)	0.0005	40.98	142.7987
	R2408254-037	Tl (190.794 nm)	0.0015	37.50	0.4239
	R2408254-037	V (292.401 nm)	0.0001	61.23	13.4645
	R2408254-037	Y (360.074 nm)	1.05	1.88	687342.74
	R2408254-037	Y_R (360.074 nm)	1.05	1.88	687736.97
	R2408254-037	Zn (213.857 nm)	0.0015	6.16	101.1063
9/6/2024 23:37:51	R2408254-039	Ag (328.068 nm)	-0.0001 u	43.96	12.7618
	R2408254-039	Al (237.312 nm)	0.0246	0.77	52.8253
	R2408254-039	As (188.980 nm)	0.0009 u	> 100.00	-2.3816
	R2408254-039	B (249.772 nm)	0.0057	0.93	352.7349
	R2408254-039	Ba (230.424 nm)	0.0153	0.45	950.9884
	R2408254-039	Be (313.107 nm)	0.0000 u	> 100.00	-17.7300
	R2408254-039	Ca (317.933 nm)	7.1800	0.22	270199.3646
	R2408254-039	Cd (214.439 nm)	0.0000 u	> 100.00	8.3930
	R2408254-039	Co (230.786 nm)	0.0003	61.88	6.5152
	R2408254-039	Cr (267.716 nm)	0.0002	25.36	18.1580
	R2408254-039	Cu (327.395 nm)	0.0002	70.91	7.1253
	R2408254-039	Fe (234.350 nm)	0.0931	1.19	2155.4734
	R2408254-039	K (766.491 nm)	0.6339	0.93	1531.7007
	R2408254-039	Mg (279.078 nm)	1.9688	0.10	7842.9790
	R2408254-039	Mn (257.610 nm)	0.0210	0.21	7182.0814
	R2408254-039	Mo (202.032 nm)	0.0002	62.69	8.1252
	R2408254-039	Na (588.995 nm)	9.8093	0.19	126529.5895
	R2408254-039	Ni (230.299 nm)	0.0031	10.01	42.5181
	R2408254-039	Pb (220.353 nm)	0.0007	58.86	3.1011
	R2408254-039	Sb (217.582 nm)	0.0018	40.06	8.5525
	R2408254-039	Se (196.026 nm)	0.0013 u	> 100.00	3.5045
	R2408254-039	Si (252.851 nm)	0.9667	0.12	6171.3104
	R2408254-039	Sn (189.925 nm)	0.0015	61.49	8.0652
	R2408254-039	Sr (216.596 nm)	0.0224	0.53	425.8387
	R2408254-039	Ti (336.122 nm)	0.0004	37.92	129.1330
	R2408254-039	Tl (190.794 nm)	-0.0016 u	88.34	-2.3964
	R2408254-039	V (292.401 nm)	0.0001	72.97	12.8404
	R2408254-039	Y (360.074 nm)	1.07	0.09	698888.82

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408254-039	Y_R (360.074 nm)	1.07	0.09	699317.30
	R2408254-039	Zn (213.857 nm)	0.0015	4.91	97.9841
9/6/2024 23:40:56	R2408254-039S	Ag (328.068 nm)	0.0478	0.22	2841.6523
	R2408254-039S	Al (237.312 nm)	1.8997	0.28	4912.9356
	R2408254-039S	As (188.980 nm)	0.0358	5.60	54.5059
	R2408254-039S	B (249.772 nm)	0.8937	0.13	37805.8560
	R2408254-039S	Ba (230.424 nm)	1.8517	0.27	114173.9715
	R2408254-039S	Be (313.107 nm)	0.0472	0.07	55311.2358
	R2408254-039S	Ca (317.933 nm)	8.8622	0.07	332682.1440
	R2408254-039S	Cd (214.439 nm)	0.0484	0.25	2906.0684
	R2408254-039S	Co (230.786 nm)	0.4727	0.15	9544.7916
	R2408254-039S	Cr (267.716 nm)	0.1898	0.15	10863.4244
	R2408254-039S	Cu (327.395 nm)	0.2392	0.37	10787.6755
	R2408254-039S	Fe (234.350 nm)	1.0049	0.55	22569.5255
	R2408254-039S	K (766.491 nm)	19.1707	0.23	23823.2272
	R2408254-039S	Mg (279.078 nm)	3.7768	0.14	15044.8742
	R2408254-039S	Mn (257.610 nm)	0.4783	0.11	163564.4660
	R2408254-039S	Mo (202.032 nm)	0.4209	4.48	4487.5824
	R2408254-039S	Na (588.995 nm)	28.1375	0.17	387098.3334
	R2408254-039S	Ni (230.299 nm)	0.4751	0.09	6101.5571
	R2408254-039S	Pb (220.353 nm)	0.4912	0.14	2444.0809
	R2408254-039S	Sb (217.582 nm)	0.4455	2.30	1032.9319
	R2408254-039S	Se (196.026 nm)	0.9557	0.30	706.9710
	R2408254-039S	Si (252.851 nm)	1.2662	0.38	8061.4809
	R2408254-039S	Sn (189.925 nm)	4.2726	1.27	11016.0078
	R2408254-039S	Sr (216.596 nm)	1.8947	0.04	35584.9244
	R2408254-039S	Ti (336.122 nm)	0.4599	0.30	68430.0882
	R2408254-039S	Tl (190.794 nm)	1.9184	0.25	1729.8114
	R2408254-039S	V (292.401 nm)	0.4693	0.17	16957.8606
	R2408254-039S	Y (360.074 nm)	1.05	0.23	686882.33
	R2408254-039S	Y_R (360.074 nm)	1.05	0.23	687301.69
	R2408254-039S	Zn (213.857 nm)	0.4994	0.18	29520.5252
9/6/2024 23:44:01	R2408254-039SD	Ag (328.068 nm)	0.0479	4.87	2850.3901
	R2408254-039SD	Al (237.312 nm)	1.8957	4.94	4902.5832
	R2408254-039SD	As (188.980 nm)	0.0355	10.76	54.1033
	R2408254-039SD	B (249.772 nm)	0.8944	4.74	37834.8600
	R2408254-039SD	Ba (230.424 nm)	1.8553	4.81	114393.7608
	R2408254-039SD	Be (313.107 nm)	0.0472	4.77	55275.5832
	R2408254-039SD	Ca (317.933 nm)	9.0808	4.73	340802.7829
	R2408254-039SD	Cd (214.439 nm)	0.0485	4.70	2912.4214
	R2408254-039SD	Co (230.786 nm)	0.4723	4.61	9536.8752
	R2408254-039SD	Cr (267.716 nm)	0.1900	4.98	10874.5552
	R2408254-039SD	Cu (327.395 nm)	0.2389	4.96	10773.2536
	R2408254-039SD	Fe (234.350 nm)	1.0100	5.18	22684.1775
	R2408254-039SD	K (766.491 nm)	19.1475	4.70	23795.3595
	R2408254-039SD	Mg (279.078 nm)	3.8383	4.83	15289.5194
	R2408254-039SD	Mn (257.610 nm)	0.4791	4.77	163815.2248
	R2408254-039SD	Mo (202.032 nm)	0.4381	2.28	4670.4003
	R2408254-039SD	Na (588.995 nm)	28.2911	4.02	389282.5239
	R2408254-039SD	Ni (230.299 nm)	0.4749	4.72	6099.1886
	R2408254-039SD	Pb (220.353 nm)	0.4905	4.83	2440.4062
	R2408254-039SD	Sb (217.582 nm)	0.4603	6.14	1067.1366
	R2408254-039SD	Se (196.026 nm)	0.9724	4.77	719.2861
	R2408254-039SD	Si (252.851 nm)	1.2950	4.96	8242.9812
	R2408254-039SD	Sn (189.925 nm)	4.4379	5.20	11441.9779
	R2408254-039SD	Sr (216.596 nm)	1.9075	4.75	35823.8507
	R2408254-039SD	Ti (336.122 nm)	0.4691	4.55	69803.5824

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408254-039SD	Tl (190.794 nm)	1.9113	4.56	1723.3824
	R2408254-039SD	V (292.401 nm)	0.4692	4.83	16953.7816
	R2408254-039SD	Y (360.074 nm)	1.02	4.02	670254.72
	R2408254-039SD	Y_R (360.074 nm)	1.02	4.02	670668.38
	R2408254-039SD	Zn (213.857 nm)	0.4990	4.81	29494.9383
9/6/2024 23:47:06	R2408254-039A	Ag (328.068 nm)	0.0465	0.47	2765.8665
	R2408254-039A	Al (237.312 nm)	1.8517	0.14	4788.3367
	R2408254-039A	As (188.980 nm)	0.0360	7.09	54.9450
	R2408254-039A	B (249.772 nm)	0.8720	0.16	36889.6297
	R2408254-039A	Ba (230.424 nm)	1.8106	0.35	111639.6981
	R2408254-039A	Be (313.107 nm)	0.0460	0.12	53865.0954
	R2408254-039A	Ca (317.933 nm)	8.8886	0.08	333662.7253
	R2408254-039A	Cd (214.439 nm)	0.0472	0.10	2835.2922
	R2408254-039A	Co (230.786 nm)	0.4596	0.12	9281.4189
	R2408254-039A	Cr (267.716 nm)	0.1848	0.07	10579.2517
	R2408254-039A	Cu (327.395 nm)	0.2325	0.21	10483.1319
	R2408254-039A	Fe (234.350 nm)	0.9920	0.48	22279.0461
	R2408254-039A	K (766.491 nm)	18.6905	0.31	23245.7188
	R2408254-039A	Mg (279.078 nm)	3.7477	0.09	14928.5973
	R2408254-039A	Mn (257.610 nm)	0.4670	0.06	159681.9306
	R2408254-039A	Mo (202.032 nm)	0.4333	3.38	4619.7072
	R2408254-039A	Na (588.995 nm)	27.8107	0.45	382452.7155
	R2408254-039A	Ni (230.299 nm)	0.4620	0.15	5933.4191
	R2408254-039A	Pb (220.353 nm)	0.4787	0.23	2381.8646
	R2408254-039A	Sb (217.582 nm)	0.4513	1.93	1046.5003
	R2408254-039A	Se (196.026 nm)	0.9511	0.65	703.5754
	R2408254-039A	Si (252.851 nm)	1.2740	0.05	8110.4493
	R2408254-039A	Sn (189.925 nm)	4.3776	0.49	11286.6237
	R2408254-039A	Sr (216.596 nm)	1.8653	0.05	35031.4046
	R2408254-039A	Ti (336.122 nm)	0.4607	0.18	68550.6954
	R2408254-039A	Tl (190.794 nm)	1.8710	0.08	1687.0062
	R2408254-039A	V (292.401 nm)	0.4568	0.22	16505.7987
	R2408254-039A	Y (360.074 nm)	1.05	0.27	685865.22
	R2408254-039A	Y_R (360.074 nm)	1.05	0.28	686306.06
	R2408254-039A	Zn (213.857 nm)	0.4859	0.05	28722.2562
9/6/2024 23:50:11	R2408254-039L 5X	Ag (328.068 nm)	0.0000 u	98.08	15.3601
	R2408254-039L 5X	Al (237.312 nm)	0.0048	11.57	1.3928
	R2408254-039L 5X	As (188.980 nm)	0.0022	16.94	-0.2973
	R2408254-039L 5X	B (249.772 nm)	0.0006	20.84	138.5431
	R2408254-039L 5X	Ba (230.424 nm)	0.0032	4.75	205.4223
	R2408254-039L 5X	Be (313.107 nm)	0.0000 u	> 100.00	-14.2127
	R2408254-039L 5X	Ca (317.933 nm)	1.4338	0.33	56767.6146
	R2408254-039L 5X	Cd (214.439 nm)	0.0000 u	52.24	5.8904
	R2408254-039L 5X	Co (230.786 nm)	0.0002 u	> 100.00	4.6443
	R2408254-039L 5X	Cr (267.716 nm)	0.0000 u	> 100.00	7.0150
	R2408254-039L 5X	Cu (327.395 nm)	0.0000 u	> 100.00	0.7387
	R2408254-039L 5X	Fe (234.350 nm)	0.0214	2.40	550.9489
	R2408254-039L 5X	K (766.491 nm)	0.1167	50.82	909.7240
	R2408254-039L 5X	Mg (279.078 nm)	0.3970	0.38	1581.7671
	R2408254-039L 5X	Mn (257.610 nm)	0.0043	0.36	1487.0443
	R2408254-039L 5X	Mo (202.032 nm)	0.0080	17.58	91.5063
	R2408254-039L 5X	Na (588.995 nm)	1.9368	0.58	14608.2532
	R2408254-039L 5X	Ni (230.299 nm)	0.0007	10.70	11.8500
	R2408254-039L 5X	Pb (220.353 nm)	-0.0004 u	> 100.00	-2.3567
	R2408254-039L 5X	Sb (217.582 nm)	0.0103	23.88	28.2031
	R2408254-039L 5X	Se (196.026 nm)	0.0117	50.35	11.1731
	R2408254-039L 5X	Si (252.851 nm)	0.1968	0.64	1312.6672

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408254-039L 5X	Sn (189.925 nm)	0.0943	35.87	247.4041
	R2408254-039L 5X	Sr (216.596 nm)	0.0048	2.63	95.3360
	R2408254-039L 5X	Ti (336.122 nm)	0.0033	33.42	563.2876
	R2408254-039L 5X	Tl (190.794 nm)	-0.0004 u	> 100.00	-1.2965
	R2408254-039L 5X	V (292.401 nm)	0.0000 u	> 100.00	10.9398
	R2408254-039L 5X	Y (360.074 nm)	1.07	0.56	698567.68
	R2408254-039L 5X	Y_R (360.074 nm)	1.07	0.56	699036.00
	R2408254-039L 5X	Zn (213.857 nm)	0.0002	12.91	23.3712
9/6/2024 23:53:15	Continuing Calibration Verification1	Ag (328.068 nm)	0.4827	1.96	28546.5154
	Continuing Calibration Verification1	Al (237.312 nm)	9.1782	2.07	23777.8097
	Continuing Calibration Verification1	As (188.980 nm)	0.9297	1.62	1514.2218
	Continuing Calibration Verification1	B (249.772 nm)	2.1409 Q	1.89	90407.1754 Q
	Continuing Calibration Verification1	Ba (230.424 nm)	9.2097	1.66	567826.3571
	Continuing Calibration Verification1	Be (313.107 nm)	0.2353	1.62	275463.9920
	Continuing Calibration Verification1	Ca (317.933 nm)	24.1986	1.77	902326.9649
	Continuing Calibration Verification1	Cd (214.439 nm)	0.4724	1.81	28322.7565
	Continuing Calibration Verification1	Co (230.786 nm)	2.3467	1.83	47383.5360
	Continuing Calibration Verification1	Cr (267.716 nm)	0.4831	1.80	27639.6599
	Continuing Calibration Verification1	Cu (327.395 nm)	1.1705	2.30	52787.0817
	Continuing Calibration Verification1	Fe (234.350 nm)	4.6789	1.76	104822.4771
	Continuing Calibration Verification1	K (766.491 nm)	23.2339	2.08	28709.4333
	Continuing Calibration Verification1	Mg (279.078 nm)	24.3116	1.79	96841.8932
	Continuing Calibration Verification1	Mn (257.610 nm)	0.6954	1.83	237803.9756
	Continuing Calibration Verification1	Mo (202.032 nm)	2.4144	1.05	25711.1825
	Continuing Calibration Verification1	Na (588.995 nm)	23.7400	2.37	324579.6674
	Continuing Calibration Verification1	Ni (230.299 nm)	1.9025	1.89	24423.9021
	Continuing Calibration Verification1	Pb (220.353 nm)	0.4769	1.83	2373.0398
	Continuing Calibration Verification1	Sb (217.582 nm)	4.6144	1.76	10659.4571
	Continuing Calibration Verification1	Se (196.026 nm)	0.4597	1.44	341.3474
	Continuing Calibration Verification1	Si (252.851 nm)	9.1530	1.32	57832.5367
	Continuing Calibration Verification1	Sn (189.925 nm)	4.8784	1.15	12577.3118
	Continuing Calibration Verification1	Sr (216.596 nm)	2.3605	1.60	44330.9492
	Continuing Calibration Verification1	Ti (336.122 nm)	2.4405	1.78	362843.8451
	Continuing Calibration Verification1	Tl (190.794 nm)	0.9553	2.39	860.9141
	Continuing Calibration Verification1	V (292.401 nm)	2.4025	1.87	86771.2605
	Continuing Calibration Verification1	Y (360.074 nm)	1.00	2.19	653191.14
	Continuing Calibration Verification1	Y_R (360.074 nm)	1.00	2.19	653601.95
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9411	1.72	55620.9859
9/6/2024 23:56:19	Continuing Calibration Blank1	Ag (328.068 nm)	0.0000 u	> 100.00	16.8519
	Continuing Calibration Blank1	Al (237.312 nm)	-0.0004 u	> 100.00	-12.0588
	Continuing Calibration Blank1	As (188.980 nm)	0.0039	58.53	2.4014
	Continuing Calibration Blank1	B (249.772 nm)	0.0001 u	> 100.00	119.3884
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0006	12.66	44.4944
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000 u	> 100.00	-14.8006
	Continuing Calibration Blank1	Ca (317.933 nm)	-0.0016 u	15.23	3454.2943
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000 u	55.40	6.3232
	Continuing Calibration Blank1	Co (230.786 nm)	0.0003	46.80	7.0821
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0000 u	> 100.00	5.6951
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0001	98.22	3.9192
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0037	17.52	153.7230
	Continuing Calibration Blank1	K (766.491 nm)	-0.0146 u	58.63	751.8757
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0005	43.00	2.4894
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0001	4.22	35.5423
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0075	13.68	86.5288
	Continuing Calibration Blank1	Na (588.995 nm)	-0.0065 u	20.51	-13018.7162
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0002	> 100.00	5.7040
	Continuing Calibration Blank1	Pb (220.353 nm)	0.0003	61.14	0.8420

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0131	21.33	34.5866
	Continuing Calibration Blank1	Se (196.026 nm)	0.0019	89.07	3.9281
	Continuing Calibration Blank1	Si (252.851 nm)	0.0056	33.16	106.0176
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0145	40.85	41.6904
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0000 u	> 100.00	5.0753
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0069	25.07	1091.5473
	Continuing Calibration Blank1	Tl (190.794 nm)	0.0009	11.80	-0.1116
	Continuing Calibration Blank1	V (292.401 nm)	0.0003	51.85	20.3718
	Continuing Calibration Blank1	Y (360.074 nm)	1.06	0.35	694110.29
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.06	0.35	694596.71
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0001	30.64	16.5935

Summary Calibration Results

Element and wavelength	Type	Units	Equation	Correlation Coefficient	%RSE
Ag (328.068 nm)	Analyte	ppm	59102.76489988 * Concentration + 17.47118017	0.99999	1.56565141
Al (237.312 nm)	Analyte	ppm	2591.89542749 * Concentration - 10.99705779	1.00000	1.56323965
As (188.980 nm)	Analyte	ppm	1632.95905390 * Concentration - 3.88775374	0.99998	3.51153845
B (249.772 nm)	Analyte	ppm	42176.08809397 * Concentration + 113.62082590	0.99997	2.05459097
Ba (230.424 nm)	Analyte	ppm	61654.67042402 * Concentration + 8.34773606	0.99998	2.98092344
Be (313.107 nm)	Analyte	ppm	1170939.56936913 * Concentration - 14.39993076	1.00000	3.88497788
Ca (317.933 nm)	Analyte	ppm	37143.19368613 * Concentration + 3512.54130479	1.00000	2.14827197
Cd (214.439 nm)	Analyte	ppm	59932.21119610 * Concentration + 8.06664398	1.00000	1.80231418
Co (230.786 nm)	Analyte	ppm	20190.75749718 * Concentration + 1.32206328	0.99999	2.83068898
Cr (267.716 nm)	Analyte	ppm	57205.26836630 * Concentration + 5.42060903	1.00000	3.91573633
Cu (327.395 nm)	Analyte	ppm	45096.21535158 * Concentration - 0.08631060	0.99998	3.73651676
Fe (234.350 nm)	Analyte	ppm	22388.08217044 * Concentration + 71.10586131	1.00000	3.48110945
K (766.491 nm)	Analyte	ppm	1202.55469803 * Concentration + 769.41351028	0.99989	10.136676 08
Mg (279.078 nm)	Analyte	ppm	3983.35325426 * Concentration + 0.37451462	1.00000	1.27498804
Mn (257.610 nm)	Analyte	ppm	341933.97959269 * Concentration + 9.21864077	1.00000	3.09605516
Mo (202.032 nm)	Analyte	ppm	10646.35901507 * Concentration + 6.20589406	1.00000	3.63909728
Na (588.995 nm)	Analyte	ppm	14216.80707459 * Concentration - 12926.63455406	0.99998	1.93962119
Ni (230.299 nm)	Analyte	ppm	12836.24541996 * Concentration + 3.08255175	0.99999	3.28553215
Pb (220.353 nm)	Analyte	ppm	4976.58638458 * Concentration - 0.53179646	0.99999	7.90641409
Sb (217.582 nm)	Analyte	ppm	2309.12009071 * Concentration + 4.32211669	0.99999	4.76890648
Se (196.026 nm)	Analyte	ppm	737.13408666 * Concentration + 2.51828748	0.99998	6.48922056
Si (252.851 nm)	Analyte	ppm	6310.66863338 * Concentration + 70.96000874	0.99999	1.49394244
Sn (189.925 nm)	Analyte	ppm	2577.26853698 * Concentration + 4.31385576	0.99999	3.63928886
Sr (216.596 nm)	Analyte	ppm	18777.96548357 * Concentration + 5.71620989	1.00000	2.23111104
Ti (336.122 nm)	Analyte	ppm	148648.50362277 * Concentration + 72.76532521	1.00000	1.65343464
Tl (190.794 nm)	Analyte	ppm	902.16072316 * Concentration - 0.92128202	0.99999	8.51801787
V (292.401 nm)	Analyte	ppm	36113.28523115 * Concentration + 9.76196398	1.00000	1.09688406
Zn (213.857 nm)	Analyte	ppm	59092.21274330 * Concentration + 10.43563871	0.99999	1.81955698

Detailed Calibration Results

Ag (328.068 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	17.4712	0.0000	0.0000	N/A
Standard 2	598.2131	0.0100	0.0098	1.7403
Standard 3	1209.7476	0.0200	0.0202	0.8647
Standard 4	5856.1149	0.1000	0.0988	1.2120
Standard 5	11686.0860	0.2000	0.1974	1.2854
Standard 6	59519.4591	1.0000	1.0068	0.6755

Al (237.312 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-10.9971	0.0000	0.0000	N/A
Standard 1	252.1321	0.1000	0.1015	1.5200
Standard 2	512.6003	0.2000	0.2020	1.0067
Standard 3	1048.0148	0.4000	0.4086	2.1465
Standard 4	5131.7708	2.0000	1.9842	0.7914
Standard 5	10246.0638	4.0000	3.9574	1.0660
Standard 6	51974.6937	20.0000	20.0570	0.2851

As (188.980 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-3.8878	0.0000	0.0000	N/A
Standard 1	11.4225	0.0100	0.0094	6.2422
Standard 2	28.7117	0.0200	0.0200	0.1829
Standard 3	61.2668	0.0400	0.0399	0.2508
Standard 4	316.4208	0.2000	0.1962	1.9239
Standard 5	634.0140	0.4000	0.3906	2.3396
Standard 6	3296.0921	2.0000	2.0209	1.0429

B (249.772 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	113.6208	0.0000	0.0000	N/A
Standard 2	4271.3098	0.1000	0.0986	1.4207
Standard 3	8539.9964	0.2000	0.1998	0.1048
Standard 4	41484.1656	1.0000	0.9809	1.9100
Standard 5	83419.8533	2.0000	1.9752	1.2400
Standard 6	431719.8743	10.0000	10.2334	2.3343

Ba (230.424 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	8.3477	0.0000	0.0000	N/A
Standard 1	1219.9284	0.0200	0.0197	1.7446
Standard 2	12420.2863	0.2000	0.2013	0.6569
Standard 3	25291.9482	0.4000	0.4101	2.5210
Standard 4	122363.6945	2.0000	1.9845	0.7737
Standard 5	242307.2395	4.0000	3.9299	1.7516
Standard 6	1175203.9260	20.0000	19.0609	4.6953

Be (313.107 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-14.3999	0.0000	0.0000	N/A
Standard 1	3246.2611	0.0030	0.0028	7.1782
Standard 2	5768.9448	0.0050	0.0049	1.2187
Standard 3	11904.0733	0.0100	0.0102	1.7856
Standard 4	58901.2881	0.0500	0.0503	0.6298
Standard 5	118255.9292	0.1000	0.1010	1.0046
Standard 6	595192.5736	0.5000	0.5083	1.6631

Ca (317.933 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	3512.5413	0.0000	0.0000	N/A
Standard 2	22493.9002	0.5000	0.5110	2.2064
Standard 3	41635.8019	1.0000	1.0264	2.6386
Standard 4	189143.9260	5.0000	4.9977	0.0455
Standard 5	374052.2135	10.0000	9.9760	0.2402
Standard 6	1834705.3735	50.0000	49.3009	1.3982

Cd (214.439 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	8.0666	0.0000	0.0000	N/A
Standard 1	312.6605	0.0050	0.0051	1.6461
Standard 2	616.4024	0.0100	0.0102	1.5040
Standard 3	1240.2527	0.0200	0.0206	2.7983

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Standard 4	6006.6614	0.1000	0.1001	0.0897
Standard 5	11983.7201	0.2000	0.1998	0.0900
Standard 6	59689.5841	1.0000	0.9958	0.4183

Co (230.786 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	1.3221	0.0000	0.0000	N/A
Standard 2	1033.7601	0.0500	0.0511	2.2684
Standard 3	2099.4970	0.1000	0.1039	3.9176
Standard 4	10189.4909	0.5000	0.5046	0.9191
Standard 5	20189.1963	1.0000	0.9999	0.0143
Standard 6	99296.1700	5.0000	4.9178	1.6433

Cr (267.716 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	5.4206	0.0000	0.0000	N/A
Standard 2	598.6850	0.0100	0.0104	3.7080
Standard 3	1213.1181	0.0200	0.0211	5.5582
Standard 4	5748.2975	0.1000	0.1004	0.3907
Standard 5	11407.3279	0.2000	0.1993	0.3422
Standard 6	56614.5614	1.0000	0.9896	1.0421

Cu (327.395 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-0.0863	0.0000	0.0000	N/A
Standard 1	423.7436	0.0100	0.0094	6.0165
Standard 2	1087.2683	0.0250	0.0241	3.5525
Standard 3	2240.4273	0.0500	0.0497	0.6341
Standard 4	11124.8482	0.2500	0.2467	1.3227
Standard 5	22309.5627	0.5000	0.4947	1.0576
Standard 6	114925.9116	2.5000	2.5485	1.9385

Fe (234.350 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	71.1059	0.0000	0.0000	N/A
Standard 2	2393.3749	0.1000	0.1037	3.7279
Standard 3	4750.3824	0.2000	0.2090	4.5037
Standard 4	22664.6258	1.0000	1.0092	0.9176
Standard 5	44746.3568	2.0000	1.9955	0.2254
Standard 6	221418.4650	10.0000	9.8868	1.1316

K (766.491 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	769.4135	0.0000	0.0000	N/A
Standard 2	1306.9292	0.5000	0.4470	10.6044
Standard 3	1834.0320	1.0000	0.8853	11.4703
Standard 4	6419.0703	5.0000	4.6980	6.0391
Standard 5	12291.3055	10.0000	9.5812	4.1882
Standard 6	62819.8418	50.0000	51.5988	3.1977

Mg (279.078 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	0.3745	0.0000	0.0000	N/A
Standard 2	1992.8207	0.5000	0.5002	0.0386
Standard 3	4066.2769	1.0000	1.0207	2.0724
Standard 4	19953.5221	5.0000	5.0091	0.1827
Standard 5	39570.9908	10.0000	9.9340	0.6600
Standard 6	199833.4768	50.0000	50.1671	0.3341

Mn (257.610 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	9.2186	0.0000	0.0000	N/A
Standard 1	3505.7174	0.0100	0.0102	2.2565
Standard 2	5294.9508	0.0150	0.0155	3.0556
Standard 3	10744.6635	0.0300	0.0314	4.6542
Standard 4	51622.0818	0.1500	0.1509	0.6293
Standard 5	102235.3823	0.3000	0.2990	0.3451
Standard 6	506150.2477	1.5000	1.4802	1.3180

Mo (202.032 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	6.2059	0.0000	0.0000	N/A
Standard 1	256.8335	0.0250	0.0235	5.8354
Standard 2	519.2788	0.0500	0.0482	3.6153
Standard 3	1057.2202	0.1000	0.0987	1.2795
Standard 4	5233.5553	0.5000	0.4910	1.8002
Standard 5	10564.6518	1.0000	0.9917	0.8258
Standard 6	53524.7716	5.0000	5.0269	0.5387

Na (588.995 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-12926.6346	0.0000	0.0000	N/A
Standard 2	-5821.9656	0.5000	0.4997	0.0525
Standard 3	1057.9777	1.0000	0.9837	1.6332
Standard 4	57697.8832	5.0000	4.9677	0.6464
Standard 5	129385.8803	10.0000	10.0102	0.1016
Standard 6	718254.1162	50.0000	51.4307	2.8615

Ni (230.299 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	3.0826	0.0000	0.0000	N/A
Standard 2	529.6013	0.0400	0.0410	2.5453
Standard 3	1078.3681	0.0800	0.0838	4.7118
Standard 4	5172.9738	0.4000	0.4028	0.6893
Standard 5	10257.6632	0.8000	0.7989	0.1404
Standard 6	50428.2719	4.0000	3.9283	1.7914

Pb (220.353 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-0.5318	0.0000	0.0000	N/A
Standard 1	23.7254	0.0050	0.0049	2.5149
Standard 2	55.6944	0.0100	0.0113	12.9815
Standard 3	107.2972	0.0200	0.0217	8.3363
Standard 4	505.8451	0.1000	0.1018	1.7519

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Standard 5	1005.1364	0.2000	0.2021	1.0400
Standard 6	4913.9296	1.0000	0.9875	1.2483

Sb (217.582 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	4.3221	0.0000	0.0000	N/A
Standard 1	131.8787	0.0600	0.0552	7.9328
Standard 2	227.2117	0.1000	0.0965	3.4742
Standard 3	455.3191	0.2000	0.1953	2.3444
Standard 4	2254.8508	1.0000	0.9746	2.5374
Standard 5	4535.2220	2.0000	1.9622	1.8912
Standard 6	23252.0140	10.0000	10.0678	0.6777

Se (196.026 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	2.5183	0.0000	0.0000	N/A
Standard 2	10.3564	0.0100	0.0106	6.3318
Standard 3	16.1029	0.0200	0.0184	7.8552
Standard 4	73.3766	0.1000	0.0961	3.8732
Standard 5	145.3937	0.2000	0.1938	3.0872
Standard 6	739.8681	1.0000	1.0003	0.0293

Si (252.851 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	70.9600	0.0000	0.0000	N/A
Standard 2	3239.4491	0.5000	0.5021	0.4169
Standard 3	6512.3797	1.0000	1.0207	2.0719
Standard 4	31707.4881	5.0000	5.0132	0.2636
Standard 5	62919.9503	10.0000	9.9592	0.4083
Standard 6	320058.5988	50.0000	50.7058	1.4116

Sn (189.925 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	4.3139	0.0000	0.0000	N/A
Standard 2	269.7893	0.1000	0.1030	3.0065
Standard 3	545.8996	0.2000	0.2101	5.0697
Standard 4	2632.1161	1.0000	1.0196	1.9607
Standard 5	5206.7643	2.0000	2.0186	0.9295
Standard 6	25639.7628	10.0000	9.9468	0.5325

Sr (216.596 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	5.7162	0.0000	0.0000	N/A
Standard 2	959.2255	0.0500	0.0508	1.5562
Standard 3	1946.2469	0.1000	0.1033	3.3408
Standard 4	9457.5746	0.5000	0.5033	0.6697
Standard 5	18818.4902	1.0000	1.0019	0.1854
Standard 6	93020.9003	5.0000	4.9534	0.9316

Ti (336.122 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	72.7653	0.0000	0.0000	N/A
Standard 2	7557.5325	0.0500	0.0504	0.7042

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Standard 3	15323.8159	0.1000	0.1026	2.5981
Standard 4	74200.5380	0.5000	0.4987	0.2644
Standard 5	148674.3681	1.0000	0.9997	0.0316
Standard 6	750306.1288	5.0000	5.0470	0.9406

Tl (190.794 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-0.9213	0.0000	0.0000	N/A
Standard 1	9.5477	0.0100	0.0116	16.0439
Standard 2	18.0237	0.0200	0.0210	4.9980
Standard 3	34.6458	0.0400	0.0394	1.4393
Standard 4	183.4114	0.2000	0.2043	2.1618
Standard 5	363.2015	0.4000	0.4036	0.9030
Standard 6	1793.8452	2.0000	1.9894	0.5296

V (292.401 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	9.7620	0.0000	0.0000	N/A
Standard 2	1823.9144	0.0500	0.0502	0.4701
Standard 3	3684.9594	0.1000	0.1018	1.7686
Standard 4	18011.8918	0.5000	0.4985	0.3019
Standard 5	36062.4606	1.0000	0.9983	0.1678
Standard 6	181255.0628	5.0000	5.0188	0.3760

Zn (213.857 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	10.4356	0.0000	0.0000	N/A
Standard 2	1207.6321	0.0200	0.0203	1.2990
Standard 3	2427.2406	0.0400	0.0409	2.2472
Standard 4	11705.4025	0.2000	0.1979	1.0448
Standard 5	23439.3156	0.4000	0.3965	0.8800
Standard 6	119557.3966	2.0000	2.0231	1.1529

Preparation Information Benchsheet

Prep Run#: 444261
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigSICP
Prep Method: EPA 3050B

Status: Prepped
Prep Date/Time: 9/5/24 09:30

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2410951-01	MB		0.5g	6010D/Ag T, As T, Ba T, Be T, Cd T, Cr T, Cu T, Mn T, Ni T, Pb T, Se T, Zn T				50.00mL	White-Coarse/Colorless-Clear		HB:12 Well:F4 Temp:92.1C/93.3C
2	RQ2410951-05	MB		0.5000g	6010D/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				50.00mL	White-Coarse/Colorless-Clear		Non-Aq Matrix
3	RQ2410951-02	LCS		0.5g	6010D/Ag T, As T, Ba T, Be T, Cd T, Cr T, Cu T, Mn T, Ni T, Pb T, Se T, Zn T				50.00mL	White-Coarse/Colorless-Clear	0.5000 mL/237092; 0.5000 mL/233429; 0.5000 mL/236952	On HB:10:05-10:20,10:23-10:53,10:54-11:24,12:12-12:27,12:28-12:43 Pip:M340,MA100,M380,M38,M33,M23
4	RQ2410951-06	LCS		0.5000g	6010D/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				50.00mL	White-Coarse/Colorless-Clear	0.5000 mL/237092; 0.5000 mL/233429; 0.5000 mL/236952	Non-Aq Matrix
5	R2408392-001	800 Stockpile	.01	0.5200g	6010D/Cd T, Pb T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
6	R2408411-004	NYW-386	.03	0.5200g	6010D/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				50.00mL	Orange-Liquid/Yellow-Clear		
7	R2408442-001	SP2-3	.01	0.5200g	6010D/Ag T, As T, Ba T, Be T, Cd T, Cr T, Cu T, Mn T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		
8	RQ2410951-03	R2408442-001 MS	.01	0.5300g	6010D/Ag T, As T, Ba T, Be T, Cd T, Cr T, Cu T, Mn T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear	0.5000 mL/233429; 0.5000 mL/237092; 0.5000 mL/236952	
9	RQ2410951-04	R2408442-001 DMS	.01	0.5500g	6010D/Ag T, As T, Ba T, Be T, Cd T, Cr T, Cu T, Mn T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear	0.5000 mL/237092; 0.5000 mL/236952; 0.5000 mL/233429	
10	R2408481-003	Biosolids	.02	0.5300g	6010D/As T, Cd T, Cr T, Cu T, K T, Mo T, Ni T, Pb T, Se T, Zn T				50.00mL	Brown-Medium/Yellow-Clear		

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	233429	Logbook Ref:	233429	Expires On:	07/31/2025	Lot #: 2400837-5
Name:	Custom LCS STD B Metals	Inventory ID	236952	Logbook Ref:	236952	Expires On:	01/31/2025	
Name:	C Spike	Inventory ID	237092	Logbook Ref:	236800	Expires On:	01/31/2025	

Preparation Materials

1:1 HCl Metals Grade	1:1 235981 (235982)	1:1 Nitric Acid Metals Grade	1:1 235979 (235980)	Boiling Stones PTFE	226047 (226047)
Hot Block Cups	50mL Lot 2206050 (230501)	Hydrogen Peroxide 30% Reagent Grade H2O2	233709 (233709)	Nitric Acid Metals Grade HNO3	235979 (235979)
Thermometer	462 (230832)				

Preparation Information Benchsheet

Prep Run#: 444261
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigSICP
Prep Method: EPA 3050B

Status: Prepped
Prep Date/Time: 9/5/24 09:30

Preparation Steps

Step: Digestion
Started: 9/5/24 09:30
Finished: 9/5/24 13:01
By: CDISTEFANO
Comments

Soils
8392 9/10
8411 9/16
8442 9/10 * RUSH
8481 9/13

Comments:

Reviewed By: LC Date: 9/6/24

Chain of Custody

Relinquished By:	CD	Date:	9/5/24	Extracts Examined
Received By:	R-401	Date:	9/5/24	Yes No

Preparation Information Benchsheet

Prep Run#: 444147
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 9/3/24 12:06

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2410888-01	MB		50mL	6010D/Al T, As T, Ba T, Ca D, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Se T	<2			50.00mL	Colorless-Clear		HB:11 Well:D2 Temp:91.3C
2	RQ2410888-04	MB		50mL	6010D/Ca D	<2			50.00mL	Colorless-Clear		Filter Blank R2408347 9/03/2024
3	RQ2410888-02	LCS		50mL	6010D/Al T, As T, Ba T, Ca D, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Se T	<2			50.00mL	Colorless-Clear	0.5000 mL/236952; 0.5000 mL/233429; 0.5000 mL/237092	On HB:16:50 HB Shutoff:2:50 Pipet/Repipettor:M340,MA100,M23
4	RQ2410888-03	DLCS		50mL	6010D/Al T, As T, Ba T, Ca D, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Se T	<2			50.00mL	Colorless-Clear	0.5000 mL/233429; 0.5000 mL/237092; 0.5000 mL/236952	
5	R2408146-077	208_311_313 MW-1 2024 AN	.05	50mL	6010D/As T, Ba T, Cd T, Co T, Cr T, Cu T, Fe T, Ni T, Pb T, Se T	<2			50.00mL	Orange-Cloudy/Orange-Cloudy		
6	R2408146-078	208_311_313 RW-1 2024 AN	.04	50mL	6010D/As T, Ba T, Cd T, Co T, Cr T, Cu T, Fe T, Ni T, Pb T, Se T	<2			50.00mL	Colorless-Clear		
7	R2408146-079	EQUIP BLANK 1 SWL ND 2024 AN	.01	50mL	6010D/As T, Ba T, Cd T, Co T, Cr T, Cu T, Fe T, Ni T, Pb T, Se T	<2			50.00mL	Colorless-Clear		
8	R2408146-080	EQUIP BLANK 2 Teflon Bailer 2024 AN	.01	50mL	6010D/As T, Ba T, Cd T, Co T, Cr T, Cu T, Fe T, Ni T, Pb T, Se T	<2			50.00mL	Colorless-Clear		
9	R2408346-001	Total Leachate	.11	50mL	6010D/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Orange-Cloudy/Colorless-Clear		
10	R2408346-002	Secondary Leachate Cell 6	.11	50mL	6010D/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
11	R2408346-003	Primary Leachate Cell 6	.11	50mL	6010D/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Orange-Cloudy/Colorless-Clear		
12	R2408347-001	Shop Well	.06	50mL	6010D/Ca T, K T, Mg T, Na T	<2			50.00mL	Colorless-Clear		
13	R2408347-002	Shop Well Diss	.01	50mL	6010D/Ca D	<2			50.00mL	Colorless-Clear		
14	R2408347-003	MW-15S	.06	50mL	6010D/Ca T, K T, Mg T, Na T	<2			50.00mL	Colorless-Clear		
15	R2408347-004	MW-15S Diss	.01	50mL	6010D/Ca D	<2			50.00mL	Colorless-Clear		
16	R2408347-005	MW-13	.06	50mL	6010D/Ca T, K T, Mg T, Na T	<2			50.00mL	Colorless-Clear		
17	R2408347-006	MW-13 Diss	.01	50mL	6010D/Ca D	<2			50.00mL	Colorless-Clear		
18	R2408347-007	MW-8	.06	50mL	6010D/Ca T, K T, Mg T, Na T	<2			50.00mL	Colorless-Clear		
19	R2408347-008	MW-8 Diss	.01	50mL	6010D/Ca D	<2			50.00mL	Colorless-Clear		
20	R2408349-001	River Downstream	.11	50mL	6010D/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 444147
Team: Metals/CDISTEFANO
Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A
Status: Prepped
Prep Date/Time: 9/3/24 12:06

21	R2408349-002	River Upstream	.11	50mL	6010D/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear		

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	233429	Logbook Ref:	233429	Expires On:	07/31/2025	Lot #: 2400837-5
Name:	Custom LCS STD B Metals	Inventory ID	236952	Logbook Ref:	236952	Expires On:	01/31/2025	
Name:	C Spike	Inventory ID	237092	Logbook Ref:	236800	Expires On:	01/31/2025	

Preparation Materials

1:1 HCl Metals Grade	1:1 235981 (235982)	Hot Block Cups	50mL Lot 2206050 (230501)	Nitric Acid Metals Grade HNO3 235979 (235979)
Thermometer	461 (230831)			

Preparation Steps

Step: Digestion
Started: 9/3/24 12:06
Finished: 9/4/24 13:34
By: CDISTEFANO
Comments

8146 ~~9/4~~ 9/6
8346 9/9
8347 9/9
8349 9/9

6610

Comments: _____

Reviewed By: L- CL Date: 9/4/24

Chain of Custody

Relinquished By: CR Date: 9/4/24

Received By: R-A07 Date: 9/4/24

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 444156
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 9/3/24 12:38

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2410890-01	MB		50mL	6010D/Ag T, Al T, As D, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe D, Fe T, K T, Mg T, Mn D, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		HB:13 Well:D2 Temp:90.8C
2	RQ2410890-02	LCS		50mL	6010D/Ag T, Al T, As D, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe D, Fe T, K T, Mg T, Mn D, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/236952; 0.5000 mL/237092; 0.5000 mL/233429	On HB:16:50 HB Shutoff:2:50 Pipet/Repipettor:M340,MA100,M23
3	R2408139-001	OLN-RU011-F009	.08	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		Tier IV
4	R2408139-002	OLN-RU009-F009	.08	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
5	R2408139-003	OLN-RU-016-F009	.08	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Yellow-Cloudy/Colorless-Clear		
6	R2408139-004	OLN-FD001-D009	.08	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Yellow-Cloudy/Colorless-Clear		
7	R2408139-005	OLN-RU015-F009	.08	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
8	R2408139-007	OLN-RU010-F009	.08	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
9	R2408139-008	OLN-RU008-F009	.08	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
10	RQ2410890-03	R2408139-008 MS	.08	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear	0.5000 mL/236952; 0.5000 mL/233429; 0.5000 mL/237092	
11	RQ2410890-04	R2408139-008 DMS	.08	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear	0.5000 mL/237092; 0.5000 mL/233429; 0.5000 mL/236952	
12	R2408139-010	OLN-RU27A-F009	.08	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
13	R2408139-012	OLN-RU019-F009	.08	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
14	R2408139-013	OLN-FB003-B009	.08	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
15	R2408364-001	MW-3D	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		Tier IV
16	R2408364-002	MW-29D	.04	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
17	R2408364-003	MW-28D	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
18	R2408364-004	MW-3S	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 444156 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/CDISTEFANO **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 9/3/24 12:38

19	R2408364-005	MW-7RS	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
20	R2408364-006	MW-7RD	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
21	R2408364-007	MW-8RS	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
22	R2408364-008	MW-8RDR	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
23	R2408364-009	MW-25D	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
24	RQ2410890-05	R2408364-009 MS	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear	0.5000 mL/233429; 0.5000 mL/236952; 0.5000 mL/237092	
25	RQ2410890-06	R2408364-009 DMS	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear	0.5000 mL/233429; 0.5000 mL/237092; 0.5000 mL/236952	
26	R2408364-010	MW-25S	.01	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	233429	Logbook Ref:	233429	Expires On:	07/31/2025	Lot #: 2400837-5
Name:	Custom LCS STD B Metals	Inventory ID	236952	Logbook Ref:	236952	Expires On:	01/31/2025	
Name:	C Spike	Inventory ID	237092	Logbook Ref:	236800	Expires On:	01/31/2025	

Preparation Materials

1:1 HCl Metals Grade	1:1 235981 (235982)	Hot Block Cups	50mL Lot 2206050 (230501)	Nitric Acid Metals Grade HNO3 235979 (235979)
Thermometer	460 (230830)			

Preparation Information Benchsheet

Prep Run#: 444156
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 9/3/24 12:38

Preparation Steps

Step: Digestion
Started: 9/3/24 12:38
Finished: 9/4/24 14:29
By: CDISTEFANO
Comments

8139 (IV) 9112
8364 (IV) 919

6016

Comments:

Reviewed By: [signature] Date: 9/4/24

Chain of Custody

Relinquished By: CD Date: 9/4/24
Received By: R-A01 Date: 9/4/24

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 444157
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 9/3/24 12:38

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2410891-01	MB		50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		HB:13 Well:D2 Temp:90.8C
2	RQ2410891-02	LCS		50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear	0.5000 mL/233429; 0.5000 mL/237092; 0.5000 mL/236952	On HB:16:50 HB Shutoff:2:50 Pipet/Repipettor:M340,MA100,M23
3	RQ2410891-03	DLCS		50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear	0.5000 mL/233429; 0.5000 mL/237092; 0.5000 mL/236952	
4	R2408385-001	MW-07S	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
5	R2408385-002	MW-18S	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
6	R2408385-003	MW-08SR	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
7	R2408385-004	MW-19S	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
8	R2408385-005	MW-14S	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
9	R2408385-006	MW-14D	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
10	R2408385-007	MW-27S	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
11	R2408385-008	MW-27D	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
12	R2408385-009	MW-13S	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
13	R2408385-010	MW-13D	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
14	R2408385-011	MW-15S	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
15	R2408385-012	MW-15D	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
16	R2408385-013	MW-17S	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
17	R2408385-014	MW-16S	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
18	R2408385-015	MW-24S	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
19	R2408385-016	MW-20S	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
20	R2408385-017	MW-21D	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
21	R2408385-018	MW-23SR	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
22	R2408385-019	MW-23DR	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
23	R2408385-020	DUP-02	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 444157
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 9/3/24 12:38

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	233429	Logbook Ref:	233429	Expires On:	07/31/2025	Lot #:	2400837-5
Name:	Custom LCS STD B Metals	Inventory ID	236952	Logbook Ref:	236952	Expires On:	01/31/2025		
Name:	C Spike	Inventory ID	237092	Logbook Ref:	236800	Expires On:	01/31/2025		

Preparation Materials

1:1 HCl Metals Grade	1:1 235981 (235982)	Hot Block Cups	50mL Lot 2206050 (230501)	Nitric Acid Metals Grade HNO3 235979 (235979)
Thermometer	460 (230830)			

Preparation Steps

Step: Digestion
Started: 9/3/24 12:38
Finished: 9/4/24 14:48
By: CDISTEFANO
Comments

8385 9/10
(1-20)

Void

Comments: _____

Reviewed By: _____ Date: 9/4/24

Chain of Custody

Relinquished By: _____ Date: 9/4/24

Received By: 02-A01 Date: 9/4/24

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 444182
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 200.2

Status: Prepped
Prep Date/Time: 9/4/24 11:00

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2410911-01	MB		10mL	200.7/Ca T, Fe T, K T, Mg T, Mn T, Na T, Sr T	<2			10.00mL	Colorless-Clear		HB:9 Well:H7 Temp:94.0C/93.9C
2	RQ2410911-02	LCS		10mL	200.7/Ca T, Fe T, K T, Mg T, Mn T, Na T, Sr T	<2			10.00mL	Colorless-Clear	0.1000 mL/237092; 0.1000 mL/233429; 0.1000 mL/236952	On HB:14:10 Off HB:16:10 Pipet/Repipettor:M33,M39
3	R2407966-001	24S0274	.03	10mL	200.7/Ca T, Fe T, K T, Mg T, Mn T, Na T	<2			10.00mL	Colorless-Clear		Tier IV
4	R2407966-003	24S0273	.03	10mL	200.7/Ca T, Fe T, K T, Mg T, Mn T, Na T	<2			10.00mL	Colorless-Clear		
5	R2407966-005	24S0272-24S0276	.03	10mL	200.7/Ca T, Fe T, K T, Mg T, Mn T, Na T	<2			10.00mL	Colorless-Clear		
6	RQ2410911-03	R2407966-005 MS	.03	10mL	200.7/Ca T, Fe T, K T, Mg T, Mn T, Na T	<2			10.00mL	Colorless-Clear	0.1000 mL/236952; 0.1000 mL/237092; 0.1000 mL/233429	
7	RQ2410911-04	R2407966-005 DMS	.03	10mL	200.7/Ca T, Fe T, K T, Mg T, Mn T, Na T	<2			10.00mL	Colorless-Clear	0.1000 mL/233429; 0.1000 mL/237092; 0.1000 mL/236952	
8	R2407966-007	24S0275	.03	10mL	200.7/Ca T, Fe T, K T, Mg T, Mn T, Na T	<2			10.00mL	Colorless-Clear		
9	R2407966-009	24S0277	.03	10mL	200.7/Ca T, Fe T, K T, Mg T, Mn T, Na T	<2			10.00mL	Colorless-Clear		
10	R2408092-001	24S0218	.03	10mL	200.7/Ca T, Fe T, K T, Mg T, Mn T, Na T	<2			10.00mL	Colorless-Clear		Tier IV
11	R2408092-003	24S0219	.03	10mL	200.7/Ca T, Fe T, K T, Mg T, Mn T, Na T	<2			10.00mL	Colorless-Clear		
12	R2408092-005	24S0220	.03	10mL	200.7/Ca T, Fe T, K T, Mg T, Mn T, Na T	<2			10.00mL	Colorless-Clear		
13	R2408094-001	24S0230	.03	10mL	200.7/Ca T, Fe T, K T, Mg T, Mn T, Na T	<2			10.00mL	Colorless-Clear		Tier IV
14	R2408094-003	24S0229	.03	10mL	200.7/Ca T, Fe T, K T, Mg T, Mn T, Na T	<2			10.00mL	Colorless-Clear		
15	R2408152-001	24L0461	.01	10mL	200.7/Ca T, Fe T, Mg T, Mn T, Na T	<2			10.00mL	Colorless-Clear		Tier IV
16	R2408152-003	24L0462	.03	10mL	200.7/Ca T, Fe T, Mg T, Mn T, Na T	<2			10.00mL	Colorless-Clear		
17	RQ2410911-05	R2408152-003 MS	.03	10mL	200.7/Ca T, Fe T, Mg T, Mn T, Na T	<2			10.00mL	Colorless-Clear	0.1000 mL/233429; 0.1000 mL/236952; 0.1000 mL/237092	
18	RQ2410911-06	R2408152-003 DMS	.03	10mL	200.7/Ca T, Fe T, Mg T, Mn T, Na T	<2			10.00mL	Colorless-Clear	0.1000 mL/237092; 0.1000 mL/236952; 0.1000 mL/233429	
19	R2408152-005	24L0459	.01	10mL	200.7/Ca T, Fe T, Mg T, Mn T, Na T	<2			10.00mL	Colorless-Clear		
20	R2408152-007	24L0460	.06	10mL	200.7/Ca T, Fe T, Mg T, Mn T, Na T	<2			10.00mL	Colorless-Clear		
21	R2408155-001	24S0160	.03	10mL	200.7/Ca T, Fe T, K T, Mg T, Mn T, Na T	<2			10.00mL	Colorless-Clear		Tier IV
22	R2408168-001	24S0156	.03	10mL	200.7/Ca T, Fe T, K T, Mg T, Mn T, Na T	<2			10.00mL	Colorless-Clear		Tier IV

Preparation Information Benchsheet

Prep Run#: 444182
Team: Metals/CDISTEFANO
Prep WorkFlow: MetDigAqICP
Prep Method: EPA 200.2
Status: Prepped
Prep Date/Time: 9/4/24 11:00

23	R2408168-003	24S0155	.03	10mL	200.7/Ca T, Fe T, K T, Mg T, Mn T, Na T	<2			10.00mL	Colorless-Clear		
24	R2408168-005	24S0159	.03	10mL	200.7/Ca T, Fe T, K T, Mg T, Mn T, Na T	<2			10.00mL	Colorless-Clear		
25	R2408390-001	24L0485	.02	10mL	200.7/Sr T	<2			10.00mL	Colorless-Clear		Tier IV
26	R2408390-002	24L0489	.02	10mL	200.7/Sr T	<2			10.00mL	Yellow-Cloudy/Colorless-Clear		

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	233429	Logbook Ref:	233429	Expires On:	07/31/2025	Lot #: 2400837-5
Name:	Custom LCS STD B Metals	Inventory ID	236952	Logbook Ref:	236952	Expires On:	01/31/2025	
Name:	C Spike	Inventory ID	237092	Logbook Ref:	236800	Expires On:	01/31/2025	

Preparation Materials

1:1 HCl Metals Grade	1:1 235981 (235982)	1:1 Nitric Acid Metals Grade	1:1 235979 (235980)	Hot Block Cups	10mL Lot J602711-6995 (236487)
Thermometer	401 (182586)				

Preparation Steps

Step: Digestion
Started: 9/4/24 11:00
Finished: 9/4/24 17:17
By: CDISTEFANO
Comments

7966 (19) 9/16*
8092 9/9
8094 9/9
8152 9/12
8155 9/12
8168 9/12
8390 (19) ~~9/16~~ 9/16
ICP RIBS

Comments: _____

Reviewed By: _____ Date: 9/6/24

Chain of Custody

Relinquished By: _____ Date: 9/5/24
Received By: _____ Date: 9/5/24
Extracts Examined: Yes No

Preparation Information Benchsheet

Prep Run#: 444183
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 200.2

Status: Prepped
Prep Date/Time: 9/4/24 11:00

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2410917-01	MB		10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		HB:9 Well:H7 Temp:94.0C/93.9C
2	RQ2410917-02	LCS		10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear	0.1000 mL/236952; 0.1000 mL/233429; 0.1000 mL/237092	On HB:14:10 Off HB:16:10 Pipet/Repipettor:M33,M39
3	R2408253-001	24S0466-24S0491	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		Tier IV
4	RQ2410917-03	R2408253-001 MS	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear	0.1000 mL/233429; 0.1000 mL/236952; 0.1000 mL/237092	
5	RQ2410917-04	R2408253-001 DMS	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear	0.1000 mL/237092; 0.1000 mL/236952; 0.1000 mL/233429	
6	R2408253-003	24S0467	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
7	R2408253-005	24S0468	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
8	R2408253-007	24S0469	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
9	R2408253-009	24S0471	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
10	R2408253-011	24S0481	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
11	R2408253-013	24S0490	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
12	R2408253-015	24S0473	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
13	R2408253-017	27S0474	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
14	R2408253-019	24S0475	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
15	R2408253-021	24S0476	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
16	R2408253-023	24S0477	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
17	R2408253-025	24S0478	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
18	R2408253-027	24S0479	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
19	R2408253-029	24S0480	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
20	R2408253-031	24S0494	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Cloudy/Colorless-Cloudy		
21	R2408253-033	24S0483	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
22	R2408253-035	24S0482	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
23	R2408253-037	24S0484	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
24	R2408253-039	24S0485	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
25	RQ2410917-05	R2408253-039 MS	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear	0.1000 mL/236952; 0.1000 mL/237092; 0.1000 mL/233429	
26	RQ2410917-06	R2408253-039 DMS	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear	0.1000 mL/233429; 0.1000 mL/236952; 0.1000 mL/237092	

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	233429	Logbook Ref:	233429	Expires On:	07/31/2025	Lot #: 2400837-5
Name:	Custom LCS STD B Metals	Inventory ID	236952	Logbook Ref:	236952	Expires On:	01/31/2025	
Name:	C Spike	Inventory ID	237092	Logbook Ref:	236800	Expires On:	01/31/2025	

Preparation Information Benchsheet

Prep Run#: 444183
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 200.2

Status: Prepped
Prep Date/Time: 9/4/24 11:00

Preparation Materials

1:1 HCl Metals Grade	1:1 235981 (235982)	1:1 Nitric Acid Metals Grade	1:1 235979 (235980)	Hot Block Cups	10mL Lot J602711-6995 (236487)
Thermometer	401 (182586)				

Preparation Steps

Step: Digestion
Started: 9/4/24 11:00
Finished: 9/4/24 17:19
By: CDISTEFANO
Comments

8253 (W) 9/13

R1BS
ICP

Comments:

Reviewed By: E. C... Date: 9/6/24

Chain of Custody

Relinquished By: [signature] Date: 9/5/24

Received By: R. Ao... Date: 9/5/24

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 444184
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 200.2

Status: Prepped
Prep Date/Time: 9/4/24 11:00

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2410916-01	MB		10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		HB:9 Well:H7 Temp:94.0C/93.9C
2	RQ2410916-02	LCS		10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear	0.1000 mL/233429; 0.1000 mL/236952; 0.1000 mL/237092	On HB:14:10 Off HB:16:10 Pipet/Repipettor:M33,M39
3	R2408254-001	24S0427	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		Tier IV
4	R2408254-003	24S0428	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
5	R2408254-005	24S0429	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
6	R2408254-007	24S0430	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
7	R2408254-009	24S0431-24S0487	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
8	RQ2410916-03	R2408254-009 MS	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear	0.1000 mL/236952; 0.1000 mL/237092; 0.1000 mL/233429	
9	RQ2410916-04	R2408254-009 DMS	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear	0.1000 mL/236952; 0.1000 mL/237092; 0.1000 mL/233429	
10	R2408254-011	24S0486	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
11	R2408254-013	24S0432	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
12	R2408254-015	24S0433	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
13	R2408254-017	24S0434	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
14	R2408254-019	24S0435	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
15	R2408254-021	24S0436	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
16	R2408254-023	24S0442	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
17	R2408254-025	24S0443	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
18	R2408254-027	24S0444	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
19	R2408254-029	24S0445	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
20	R2408254-031	24S0446	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
21	R2408254-033	24S0437	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
22	R2408254-035	24S0438	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
23	R2408254-037	24S0439	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
24	R2408254-039	24S0441	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear		
25	RQ2410916-05	R2408254-039 MS	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear	0.1000 mL/237092; 0.1000 mL/236952; 0.1000 mL/233429	
26	RQ2410916-06	R2408254-039 DMS	.03	10mL	200.7/Ca T, Fe T, Mg T	<2			10.00mL	Colorless-Clear	0.1000 mL/237092; 0.1000 mL/233429; 0.1000 mL/236952	

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	233429	Logbook Ref:	233429	Expires On:	07/31/2025	Lot #: 2400837-5
Name:	Custom LCS STD B Metals	Inventory ID	236952	Logbook Ref:	236952	Expires On:	01/31/2025	
Name:	C Spike	Inventory ID	237092	Logbook Ref:	236800	Expires On:	01/31/2025	

Preparation Information Benchsheet

Prep Run#: 444184
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 200.2

Status: Prepped
Prep Date/Time: 9/4/24 11:00

Preparation Materials

1:1 HCl Metals Grade	1:1 235981 (235982)	1:1 Nitric Acid Metals Grade	1:1 235979 (235980)	Hot Block Cups	10mL Lot J602711-6995 (236487)
Thermometer	401 (182586)				

Preparation Steps

Step: Digestion
Started: 9/4/24 11:00
Finished: 9/4/24 17:20
By: CDISTEFANO
Comments

8254 (13) 9/13

RLBS
ICP

Comments: _____

Reviewed By: E. Clinton Date: 9/6/24

Chain of Custody

Relinquished By:	[signature]	Date:	9 S 24	Extracts Examined
Received By:	R-A07	Date:	9/5/24	Yes No

ICP ICV/CCV Standard

Standard is prepared daily

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 1	Ca	233888	5000	1.00	200	25.00
	Mg		5000			25.00
	K		5000			25.00
	Na		5000			25.00
Cal Std 2	Ag	233889	100	1.00		0.50
	Cr		100			0.50
	Mn		150			0.75
	Ni		400			2.00
	Zn		200			1.00
Cal Std 3	Al	235477	2000	1.00		10.00
	Ba		2000			10.00
	Be		50			0.25
	Co		500			2.50
	Cu		250			1.25
	Fe		1000			5.00
	V		500			2.50
Cal Std 4	As	235157	100	2.00		1.00
	Cd		50			0.50
	Pb		50			0.50
	Se		50			0.50
	Tl		100			1.00
	Sb	235285	1000	1.00		5.00
	Sn	235152	1000	1.00		5.00
	B	231910	1000	0.50		2.50
	Mo	233427	1000	0.50		2.50
	Ti	233840	1000	0.50		2.50
	Sr	230304	1000	0.50		2.50
	Si	235479	1000	2.00		10.00

Matrix	Analyst/ Date	Letter ID	HNO3 Lot #	HCl Lot #	Expiration Date	Pipet ID
10% HNO3 5% HCl	NM 7/25/24	A	235979	234782	7/26/24	M36
2% HNO3 5% HCl	EC 7/26/24	B	235979	234782	7/27/24	M36
10% HNO3 5% HCl	NM 7/29/24	C	235979	234782	7/30/24	M36
10% HNO3 5% HCl	EC 7/31/24	D	235979	235981	8/1/24	M40
2% HNO3 5% HCl	NM 7/31/24	E	235979	235981	8/1/24	M40
10% HNO3 5% HCl	NM 8/2/24	F	235979	235981	8/3/24	M36
2% HNO3 5% HCl	NM 8/5/24	G	235979	235981	8/6/24	M36
10% HNO3 5% HCl	NM 8/6/24	H	235979	235981	8/7/24	M36
2% HNO3 5% HNO3	NM 8/7/24	I	235979	235981	8/8/24	M40
10% HNO3 5% HCl	NM 8/8/24	J	235979	235981	8/9/24	M40
10% HNO3 5% HCl	NM 8/9/24	K	235979	235981	8/10/24	M40
10% HNO3 5% HCl	NM 8/13/24	L	235979	235981	8/14/24	M40
2% HNO3 5% HCl	NM 8/14/24	M	235979	235981	8/15/24	M40
10% HNO3 5% HCl	NM 8/15/24	N	235979	235981	8/16/24	M36
10% HNO3 5% HCl	NM 8/19/24	O	235979	235981	8/20/24	M40
2% HNO3 5% HCl	NM 8/21/24	P	235979	235981	8/22/24	M36
10% HNO3 5% HCl	NM 8/21/24	Q	235979	235981	8/22/24	M40
2% HNO3 5% HCl	NM 8/22/24	R	235979	235981	8/23/24	M36
10% HNO3 5% HCl	EC 8/23/24	S	235979	235981	8/24/24	M40
2% HNO3 5% HCl	EC 8/26/24	T	235979	235981	8/27/24	M40
10% HNO3 5% HCl	NM 8/27/24	U	235979	235981	8/28/24	M40
2% HNO3 5% HCl	NM 8/28/24	V	235979	235981	8/29/24	M40
10% HNO3 5% HCl	NM 8/29/24	W	235979	235981	8/30/24	M40
10% HNO3 5% HCl	NM 8/31/24	X	235979	235981	9/1/24	M40
10% HNO3 5% HCl	EC 9/4/24	Y	235979	235981	9/5/24	M40
10% HNO3 5% HCl	EC 9/6/24	Z	235979	235981	9/7/24	M40
		AA				
		BB				
		CC				
		DD				

ICP Calibration Standard #1

Standard is prepared every 6 months or as necessary

Metal	ALS Lot #	Conc. (ppm)	Vol (mls)	Final Vol (mls)	Final Conc. (ppm)
Al	233887	10000	0.01	1000	0.100
As	230302	1000	0.01		0.010
Ba	233717	1000	0.02		0.020
Be	230311 (1/10)	100	0.03		0.003
Cd	234567 (1/10)	100	0.05		0.005
Cu	230454	1000	0.01		0.010
Mn	233718	1000	0.01		0.010
Mo	233720	1000	0.025		0.025
Pb	233694 (1/10)	100	0.05		0.050
Sb	230313	1000	0.06		0.060
Tl	233695	1000	0.01		0.010

Matrix	Analyst/ Date	Letter ID	HNO3 Lot #	HCl Lot #	Expiration Date	Pipet ID
2% HNO3 5% HCl	NM 6/28/24	**A**	235024	234782	12/28/24	M39
10% HNO3 5% HCl	NM 7/29/24	**B**	235979	234782	TS: 1/14/25	M37
		C				
		D				
		E				
		F				
		G				
		H				
		I				
		J				
		K				
		L				
		M				
		N				
		O				
		P				
		Q				
		R				
		S				
		T				
		U				
		V				
		W				
		X				
		Y				
		Z				

ICP Calibration Standard 6

Standard is prepared every 6 months or as necessary

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 2	Ag	234476	100	5.00	500	1.00
	Cr		100			1.00
	Mn		150			1.50
	Ni		400			4.00
	Zn		200			2.00
Cal Std 3	Al	233055	2000	5.00		20.00
	Ba		2000			20.00
	Be		50			0.50
	Co		500			5.00
	Cu		250			2.50
	Fe		1000			10.00
	V		500			5.00
Cal Std 4	As	231798	100	10.00		2.00
	Cd		50			1.00
	Pb		50			1.00
	Se		50			1.00
	Tl		100			2.00
	Ca	230305	10000	2.50		50.00
	Mg	230307	10000	2.50		50.00
	K	233452	10000	2.50		50.00
	Na	230308	10000	2.50		50.00
	Sb	230313	1000	5.00		10.00
	Sn	234660	1000	5.00		10.00
	B	233693	1000	5.00		10.00
	Mo	233720	1000	2.50		5.00
	Ti	235397	1000	2.50		5.00
	Sr	230310	1000	2.50		5.00
	Si	234659	10000	~~25.00~~ 2.50 NM 7/29/24		50.00

Matrix	Analyst/ Date	Letter ID	HNO3 Lot #	HCl Lot #	Expiration Date	Pipet ID
10% HNO3 5% HCl	NM 7/29/24	A	235979	234782	11/2/24	M38
		B				
		C				
		D				
		E				
		F				
		G				
		H				
		I				
		J				
		K				
		L				
		M				
		N				
		O				
		P				
		Q				
		R				
		S				
		T				
		U				
		V				
		W				
		X				
		Y				
		Z				

ICP HLCCV Standard

Standard is prepared every 6 months or as necessary

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 2	Ag	234476	100	4.00	200	2.00
	Cr		100			Below
	Mn		150			Below
	Ni		400			8.00
	Zn		200			Below
Cal Std 3	Al	233055	2000	4.00		Below
	Ba		2000			40.00
	Be		50			1.00
	Co		500			10.00
	Cu		250			Below
	Fe		1000			Below
	V		500			10.00
Cal Std 4	As	231798	100	8.00		4.00
	Cd		50			2.00
	Pb		50			Below
	Se		50			Below
	Tl		100			4.00
	Ca	230305	10000	5.00		250.00
	K	233452	10000	2.00		100.00
	Mg	230307	10000	10.00		500.00
	Na	230308	10000	5.00		250.00
	Al	233887	10000	9.20		500.00
	Fe	230306	1000	1.60		100.00
	B	233693	1000	10.00		50.00
	Mo	233720	1000	2.00		10.00
	Ti	235397	1000	2.00		10.00
	Sr	230310	1000	2.00		10.00
	Cr	230312	1000	1.60		10.00
	Pb	233694	1000	1.60		10.00
	Se	230309	1000	1.60		10.00
	Mn	233718	1000	1.40		10.00
	Zn	233723	1000	1.20		10.00
	Cu	230454	1000	3.00		20.00
	Si	234659	10000	~~20.00~~ 2.00		100.00

Matrix	Analyst/ Date	Letter ID	HNO3 Lot #	HCl Lot #	Expiration Date	Pipet ID
10% HNO3 5% HCl	NM 7/12/24	A	235979	234782	11/2/24	M38 M36
2% HNO3 5% HCl	NM 7/26/24	B	235979	234782	11/2/24	M38 M40
		C				
		D				
		E				
		F				
		G				
		H				
		I				
		J				
		K				
		L				
		M				
		N				
		O				
		P				
		Q				
		R				
		S				
		T				
		U				
		V				
		W				
		X				
		Y				
		Z				

ICP HLCCV3 (Standard is prepared every 6 months or as necessary)

/HLCCVB

Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst / Date	Letter ID	Nitric Acid Lot #	HCL Lot #	Expiration Date	Pipet ID
CA	230305	10,000	~~2.000~~ 4.000	~~100~~ 200	200.00	2% HNO_3 5% HNO_3	MFM 4/24/24	A	233477	233283	10/24/24	M36 M38
CU	230454	1000	~~0.400~~ 0.800		4.00	10% HNO_3 5% HCl	NM 5/16/24	B	233477	233283	11/2/24	M40 M38
FE	230306	10,000	~~0.400~~ 0.800		40.00			C				
K	233452	10,000	~~1.000~~ 2.000		100.00			D				
TL	233695	1000	~~0.300~~ 0.600		3.00			E				
NA	230308	10,000	~~1.500~~ 3.000		150.00			F				
MG	230307	10,000	~~4.000~~ 8.000		400.00			G				
								H				
								I				
								J				
								K				
								L				
								M				
								N				
								O				
								P				
								Q				
								R				
								S				
								T				
								U				

ICP Mixed SIC/ ICSA Standard

Standard is prepared every 6 months or as necessary

	Metal	ALS Lot #	Conc. (ppm)	Vol (mls)	Final Vol (mls)	Final Conc. (ppm)
Inter. A Soln	**Al**	236126	5000	50	500	500.0
	Ca	↓	5000			500.0
	Fe		2000			100.0
	Mg		5000			250.0

Matrix	Analyst/ Date	Letter ID	HNO3 Lot #	HCl Lot #	Expiration Date	Pipet ID
10% HNO3 5% HCl	NM 7/12/24	**A**	235929 ~~235924~~ NM 7/12/24	234782	1/12/25	dispo
		B				
		C				
		D				
		E				
		F				
		G				
		H				
		I				
		J				
		K				
		L				
		M				
		N				
		O				
		P				
		Q				
		R				
		S				
		T				
		U				
		V				
		W				
		X				
		Y				
		Z				

ICP Internal Standard Solution

Standard is prepared every 6 months or as necessary

(Added In-line)

Metal	ALS Lot #	Conc. (ppm)	Vol (mls)	Final Vol (mls)	Final Conc. (ppm)
Y	233696	10000	2.00	2000	10.0
Cs	233726	10000	2		10.0

Matrix	Analyst/ Date	Letter ID	HNO3 Lot #	HCl Lot #	Expiration Date	Pipet ID
2% HNO3/ 5% HCl	NM 6/11/24	A	235024	233783	12/11/24	M36
	NM 6/11/24	B	235024	233783	12/11/24	M36
	NM 6/25/24	C	235024	234782	12/25/24	M36
	NM 6/25/24	D	235024	234782	12/25/24	M36
	NM 7/16/24	E	235979	234782	1/16/25	M36
	NM 7/16/24	F	235979	234782	1/16/25	M36
	NM 8/6/24	G	235979	235981	2/6/25	M36
	NM 8/6/24	H	235979	235981	2/6/25	M36
	NM 8/27/24	I	235979	235981	2/27/24	M40
	NM 8/27/24	J	235979	235981	2/27/24	M40
		K				
		L				
		M				
		N				
		O				
		P				
		Q				
		R				
		S				
		T				
		U				
		V				
		W				
		X				
		Y				
		Z				

7900 ICP-MS 200.8/6020A
Sample Report

Sample Name	MIXED SIC CHECK
File Name	064SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\BatchTemplate\071224-MS7900.b
Acq Time	07/12/24 15:33:03
Sample Type	Sample
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	017CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	QC Flag
Be	9	45	No Gas	0.544	ppb	10.0	971.15	
Al	27	72	No Gas	322444.426	ppb	4.5	5612154514.77	>LDR
V	51	72	He	0.436	ppb	6.1	2732.49	
Cr	52	72	No Gas	1.521	ppb	5.3	73591.58	
Mn	55	72	No Gas	2.187	ppb	6.5	107919.86	
Co	59	72	He	1.801	ppb	2.1	20840.82	
Ni	60	72	No Gas	3.840	ppb	3.3	36625.17	
Cu	63	72	No Gas	1.557	ppb	5.7	37782.21	
Zn	66	72	No Gas	13.477	ppb	6.3	87873.52	
As	75	72	No Gas	0.337	ppb	187.4	1856.60	
Se	78	72	He	0.284	ppb	39.3	79.33	
Se	82	72	No Gas	1.412	ppb	13.9	636.20	
Mo	98	89	No Gas	0.609	ppb	8.2	11393.09	
Ag	107	89	No Gas	0.525	ppb	39.0	15625.66	
Cd	111	89	No Gas	0.040	ppb	41.4	1844.92	
Sb	123	89	No Gas	1.599	ppb	36.3	31605.47	
Ba	137	115	No Gas	1.096	ppb	5.8	9460.01	
Tl	203	115	No Gas	0.136	ppb	54.6	1867.95	
Pb	208	115	No Gas	3.825	ppb	3.1	158862.77	
Th	232	115	No Gas	5.755	ppb	74.8	203228.61	
U	238	115	No Gas	0.101	ppb	69.9	3412.86	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4808164.11	4.6	4532583.29	106.08	60	125	
Sc	45	He	234013.32	1.7	213409.89	109.65	60	125	
Ge	72	No Gas	3656053.33	4.9	3361580.56	108.76	60	125	
Ge	72	He	510426.87	2.0	432580.99	118	60	125	
Y	89	No Gas	5149165.63	1.0	4860989.67	105.93	60	125	
Y	89	He	747082.99	2.6	669269.97	111.63	60	125	
Rh	103	No Gas	4007497.76	3.8	4190673.03	95.63	60	125	
Rh	103	He	1858212.01	2.7	1872215.83	99.25	60	125	
In	115	No Gas	4446155.24	1.0	4430208.29	100.36	60	125	
Lu	175	No Gas	20700.78	3.8	17529.44	118.09	60	125	

Form 2

Calibration Verifications

Metals by EPA 6010D

Workorder

R2408139

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 12-Month Sampling

09/24/2024

ALS Environmental–Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Form 2 - Calibration Verifications

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 12-Month Sampling	**R2408139**	

Metals by EPA 6010D (P)

R-ICP-AES-07_853035		ICV			CCV			CCV			CCV			CCV			CCV		
Units ug/L	**Run Date**	09/04/24			09/04/24			09/04/24			09/04/24			09/04/24			09/04/24		
	Run Time	15:14			20:09			20:38			21:10			21:42			22:15		
Analyte		Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q
Arsenic		0.992	**99**		0.986	**99**		0.983	**98**		0.981	**98**		0.973	**97**		0.971	**97**	
Iron		5.07	**101**		5.05	**101**		5.04	**101**		5.07	**101**		5.00	**100**		4.98	**100**	
Manganese		0.748	**100**		0.748	**100**		0.745	**99**		0.745	**99**		0.737	**98**		0.736	**98**	

Q - %Recovery Flag * - %Recovery (%R) Outside Limits

QC ID	%R Limits	
CCV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn
ICV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn
ICV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn

Form 2 - Calibration Verifications

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 12-Month Sampling	**R2408139**	

Metals by EPA 6010D (P)

R-ICP-AES-07_853309		ICV			CCV			CCV			CCV			CCV		
Units ug/L	**Run Date**	09/06/24			09/06/24			09/06/24			09/06/24			09/06/24		
	Run Time	15:24			16:47			17:11			17:48			18:16		
Analyte		Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q
Arsenic		1.00	**100**		0.986	**99**		0.969	**97**		0.960	**96**		0.957	**96**	
Iron		5.04	**101**		5.00	**100**		4.90	**98**		4.86	**97**		4.81	**96**	
Manganese		0.747	**100**		0.741	**99**		0.729	**97**		0.723	**96**		0.718	**96**	

Q - %Recovery Flag * - %Recovery (%R) Outside Limits

QC ID	%R Limits	
CCV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn
ICV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn
ICV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn

Form 3

Blanks

Metals by EPA 6010D

Workorder

R2408139

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 12-Month Sampling

09/24/2024

ALS Environmental–Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
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Form 3 - Blanks

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 12-Month Sampling	**R2408139**	

Metals by EPA 6010D (P)

R-ICP-AES-07_853035			ICB		CCB		CCB		CCB		CCB		CCB	
		Run Date	09/04/24		09/04/24		09/04/24		09/04/24		09/04/24		09/04/24	
		Run Time	15:18		20:12		20:41		21:13		21:46		22:18	
		Units	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Analyte	DL	LOQ	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Arsenic	6	10	6	U	6	U	6	U	6	U	6	U	6	U
Iron	70	100	70	U	70	U	70	U	70	U	70	U	70	U
Manganese	4	10	4	U	4	U	4	U	4	U	4	U	4	U

Q - Result Flag * - Result Outside Limits

Form 3 - Blanks

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 12-Month Sampling	**R2408139**	

Metals by EPA 6010D (P)

R-ICP-AES-07_853309			ICB		CCB		CCB		CCB		CCB		
		Run Date	09/06/24		09/06/24		09/06/24		09/06/24		09/06/24		
		Run Time	15:27		16:50		17:14		17:51		18:19		
		Units	ug/L		ug/L		ug/L		ug/L		ug/L		
Analyte	DL	LOQ	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	
Arsenic	6	10	6	U	6	U	6	U	6	U	6	U	
Iron	70	100	70	U	70	U	70	U	70	U	70	U	
Manganese	4	10	4	U	4	U	4	U	4	U	4	U	

right solutions.
right partner.

Analysis Run Log

Metals by EPA 6010D

Workorder

R2408139

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 12-Month Sampling

09/24/2024

ALS Environmental–Rochester Laboratory
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Phone (585) 288-5380 Fax (585) 288-8475
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Form 14 - Analysis Run Log

Client Civil & Environmental Consultants, Incorporated (CEC)

Project Olean OU3 12-Month Sampling

Workorder **R2408139**

Metals by EPA 6010D (P)

R-ICP-AES-07_853035	Instrument ID	Start Date	End Date
	R-ICP-AES-07	09/04/24	09/04/24

Time	Type	Sample ID	Dilution	Analytes
15:14	ICV	Initial Calibraton Verification	1	As,Fe,Mn
15:18	ICB	Initial Calibration Blank	1	As,Fe,Mn
20:09	CCV	Continuing Calibration Verification	1	As,Fe,Mn
20:12	CCB	Continuing Calibration Blank	1	As,Fe,Mn
20:15	MB	MB-R2408139-MB Method Blank	1	As,Fe,Mn
20:18	LCS	LCS-R2408139-LCS Lab Control Sample	1	As,Fe,Mn
20:22	SMPL	OLN-RU011-F009	1	As,Fe,Mn
20:25	SMPL	OLN-RU009-F009	1	As,Fe,Mn
20:34	SMPL	OLN-RU015-F009	1	As,Fe,Mn
20:38	CCV	Continuing Calibration Verification	1	As,Fe,Mn
20:41	CCB	Continuing Calibration Blank	1	As,Fe,Mn
20:44	SMPL	OLN-RU010-F009	1	Fe,Mn
20:47	SMPL	OLN-RU008-F009	1	As,Fe,Mn
20:51	MS	OLN-RU008-F009	1	As,Fe,Mn
20:54	DMS	OLN-RU008-F009	1	As,Fe,Mn
20:57	PS	OLN-RU008-F009	1	As,Fe,Mn
21:00	SD	OLN-RU008-F009	5	As,Fe,Mn
21:10	CCV	Continuing Calibration Verification	1	As,Fe,Mn
21:13	CCB	Continuing Calibration Blank	1	As,Fe,Mn
21:16	SMPL	OLN-FB003-B009	1	As,Fe,Mn
21:42	CCV	Continuing Calibration Verification	1	As,Fe,Mn
21:46	CCB	Continuing Calibration Blank	1	As,Fe,Mn
22:15	CCV	Continuing Calibration Verification	1	As,Fe,Mn
22:18	CCB	Continuing Calibration Blank	1	As,Fe,Mn

Form 14 - Analysis Run Log

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 12-Month Sampling	**R2408139**	

Metals by EPA 6010D (P)

R-ICP-AES-07_853309	Instrument ID	Start Date	End Date
	R-ICP-AES-07	09/06/24	09/06/24

Time	Type	Sample ID	Dilution	Analytes
15:24	ICV	Initial Calibraton Verification	1	As,Fe,Mn
15:27	ICB	Initial Calibration Blank	1	As,Fe,Mn
16:47	CCV	Continuing Calibration Verification	1	As,Fe,Mn
16:50	CCB	Continuing Calibration Blank	1	As,Fe,Mn
17:11	CCV	Continuing Calibration Verification	1	As,Fe,Mn
17:14	CCB	Continuing Calibration Blank	1	As,Fe,Mn
17:23	SMPL	OLN-RU-016-F009	3	As,Fe,Mn
17:27	SMPL	OLN-FD001-D009	3	As,Fe,Mn
17:30	SMPL	OLN-RU010-F009	1	As
17:33	SMPL	OLN-RU27A-F009	5	As,Fe,Mn
17:36	SMPL	OLN-RU019-F009	5	As,Fe,Mn
17:48	CCV	Continuing Calibration Verification	1	As,Fe,Mn
17:51	CCB	Continuing Calibration Blank	1	As,Fe,Mn
18:16	CCV	Continuing Calibration Verification	1	As,Fe,Mn
18:19	CCB	Continuing Calibration Blank	1	As,Fe,Mn

right solutions.
right partner.

Preparation Log

EPA 3005A/3010A

Workorder

R2408139

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 12-Month Sampling

09/24/2024

ALS Environmental–Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Form 13 - Preparation Log

Client Civil & Environmental Consultants, Incorporated (CEC)

Project Olean OU3 12-Month Sampling

Workorder **R2408139**

Metals by EPA 6010D (P)

Prep Batch 444156 **Prep Date** 09/03/24

	Matrix	Type	Lab Sample ID	Initial Amt mL	Final Amt mL	Client Sample ID
1	Water	MB	R2408139-MB	50	50	Method Blank
2	Water	LCS	R2408139-LCS	50	50	Lab Control Sample
3	Water	SMPL	R2408139-001	50	50	OLN-RU011-F009
4	Water	SMPL	R2408139-002	50	50	OLN-RU009-F009
5	Water	SMPL	R2408139-003	50	50	OLN-RU-016-F009
6	Water	SMPL	R2408139-004	50	50	OLN-FD001-D009
7	Water	SMPL	R2408139-005	50	50	OLN-RU015-F009
8	Water	SMPL	R2408139-007	50	50	OLN-RU010-F009
9	Water	SMPL	R2408139-008	50	50	OLN-RU008-F009
10	Water	DMS	R2408139-008DMS	50	50	OLN-RU008-F009
11	Water	MS	R2408139-008MS	50	50	OLN-RU008-F009
12	Water	SMPL	R2408139-010	50	50	OLN-RU27A-F009
13	Water	SMPL	R2408139-012	50	50	OLN-RU019-F009
14	Water	SMPL	R2408139-013	50	50	OLN-FB003-B009

General Chemistry

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 18:08
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU011-F009	**Basis:**	NA
Lab Code:	R2408139-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**8.6**	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	**25.9**	mg/L	2.0	0.4	10	09/15/24 12:43	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 14:17
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU009-F009	**Basis:**	NA
Lab Code:	R2408139-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	5.0	U	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	**68.9**		mg/L	2.0	0.4	10	09/15/24 12:50	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 16:05
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU-016-F009	**Basis:**	NA
Lab Code:	R2408139-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**181**	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	**6.2**	mg/L	2.0	0.4	10	09/15/24 12:56	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 20:00
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FD001-D009	**Basis:**	NA
Lab Code:	R2408139-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**190**	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	**6.1**	mg/L	2.0	0.4	10	09/15/24 13:21	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 08:42
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU015-F009	**Basis:**	NA
Lab Code:	R2408139-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**9.3**	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	**24.6**	mg/L	2.0	0.4	10	09/15/24 13:27	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 09:22
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-OU3AMEND-SC006	**Basis:**	NA
Lab Code:	R2408139-006		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Sulfate	300.0	20 U	mg/L	20	4	100	09/15/24 14:30	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 10:30
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU010-F009	**Basis:**	NA
Lab Code:	R2408139-007		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**1970**	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	**201**	mg/L	8.0	1.6	40	09/15/24 18:07	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 12:55
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU008-F009	**Basis:**	NA
Lab Code:	R2408139-008		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**6.0**	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	**40.5**	mg/L	2.0	0.4	10	09/15/24 13:40	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 16:20
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU27A-F009	**Basis:**	NA
Lab Code:	R2408139-010		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**47.5**	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	**1.4 J**	mg/L	2.0	0.4	10	09/15/24 13:58	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 08:40
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU019-F009	**Basis:**	NA
Lab Code:	R2408139-012		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**838**	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	**68.1**	mg/L	2.0	0.4	10	09/15/24 14:05	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408139
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 10:01
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FB003-B009	**Basis:**	NA
Lab Code:	R2408139-013		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	5.0	U	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	2.0	U	mg/L	2.0	0.4	10	09/15/24 14:11	

Analytical Results Summary

Instrument Name: R-UV-VIS-06 **Analyst:** SDUBE **Analysis Lot:** 853294 **Method/Testcode:** Hach 8000 (1979)/COD T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ2411296-01	Chemical Oxygen Demand, Total	CCV		Water	511.53 mg/L	2 mL	512 mg/L	1					9/6/24 14:00	N	II
RQ2411296-02	Chemical Oxygen Demand, Total	CCB		Water	-13.83 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	II
RQ2411296-03	Chemical Oxygen Demand, Total	LCS		Water	511.53 mg/L	2 mL	512 mg/L	1	3.8	5.0	102		9/6/24 14:00	N	II
RQ2411296-04	Chemical Oxygen Demand, Total	MB		Water	-13.83 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	II
R2408456-001	Chemical Oxygen Demand, Total	N/A		Water	104.09 mg/L	2 mL	104 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
R2408539-001	Chemical Oxygen Demand, Total	N/A		Water	120.42 mg/L	2 mL	120 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
R2408257-001	Chemical Oxygen Demand, Total	N/A		Water	151.43 mg/L	2 mL	151 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
R2408432-001	Chemical Oxygen Demand, Total	N/A		Water	713.83 mg/L	2 mL	714 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
R2408540-002	Chemical Oxygen Demand, Total	N/A		Water	234.63 mg/L	2 mL	235 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
R2408328-001	Chemical Oxygen Demand, Total	N/A		Water	3352.07 mg/L	2 mL	3350 mg/L	10	38	50			9/6/24 14:00	N	II
RQ2411296-05	Chemical Oxygen Demand, Total	CCV		Water	509.82 mg/L	2 mL	510 mg/L	1					9/6/24 14:00	N	II
RQ2411296-06	Chemical Oxygen Demand, Total	CCB		Water	-15.89 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	II
R2408454-001	Chemical Oxygen Demand, Total	N/A		Water	1820.61 mg/L	2 mL	1820 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
R2408540-001	Chemical Oxygen Demand, Total	N/A		Water	866.64 mg/L	2 mL	867 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
RQ2411296-07	Chemical Oxygen Demand, Total	MS	R2408540-001	Water	1201.31 mg/L	2 mL	1200 mg/L	1	3.8	5.0	89*		9/6/24 14:00	N	II
RQ2411296-08	Chemical Oxygen Demand, Total	DMS	R2408540-001	Water	1201.31 mg/L	2 mL	1200 mg/L	1	3.8	5.0	89*	<1	9/6/24 14:00	N	II
R2408484-002	Chemical Oxygen Demand, Total	N/A		Water	1550.73 mg/L	2 mL	1550 mg/L	10	38	50			9/6/24 14:00	N	II
R2408554-001	Chemical Oxygen Demand, Total	N/A		Water	139.39 mg/L	2 mL	139 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
RQ2411296-09	Chemical Oxygen Demand, Total	MS	R2408554-001	Water	502.98 mg/L	2 mL	503 mg/L	1	3.8	5.0	97		9/6/24 14:00	N	II
RQ2411296-10	Chemical Oxygen Demand, Total	DMS	R2408554-001	Water	504.69 mg/L	2 mL	505 mg/L	1	3.8	5.0	97	<1	9/6/24 14:00	N	II
R2408140-010	Chemical Oxygen Demand, Total	N/A		Water	5589.62 mg/L	2 mL	5590 mg/L	10	38	50			9/6/24 14:00	N	IV
R2408139-003	Chemical Oxygen Demand, Total	N/A		Water	180.92 mg/L	2 mL	181 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
RQ2411296-11	Chemical Oxygen Demand, Total	CCV		Water	508.11 mg/L	2 mL	508 mg/L	1					9/6/24 14:00	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-UV-VIS-06 **Analyst:** SDUBE **Analysis Lot:** 853294 **Method/Testcode:** Hach 8000 (1979)/COD T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2411296-12	Chemical Oxygen Demand, Total	CCB		Water	-14.86 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-UV-VIS-06 **Analyst:** SDUBE **Analysis Lot:** 853295 **Method/Testcode:** Hach 8000 (1979)/COD T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ2411298-01	Chemical Oxygen Demand, Total	CCV		Water	508.11 mg/L	2 mL	508 mg/L	1					9/6/24 14:00	N	IV
RQ2411298-02	Chemical Oxygen Demand, Total	CCB		Water	-14.86 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	IV
RQ2411298-03	Chemical Oxygen Demand, Total	LCS		Water	508.11 mg/L	2 mL	508 mg/L	1	3.8	5.0	102		9/6/24 14:00	N	IV
RQ2411298-04	Chemical Oxygen Demand, Total	MB		Water	-14.86 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	IV
R2408139-004	Chemical Oxygen Demand, Total	N/A		Water	189.68 mg/L	2 mL	190 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
R2408139-007	Chemical Oxygen Demand, Total	N/A		Water	1971.56 mg/L	2 mL	1970 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
R2408139-012	Chemical Oxygen Demand, Total	N/A		Water	837.98 mg/L	2 mL	838 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
R2408140-012	Chemical Oxygen Demand, Total	N/A		Water	272.06 mg/L	2 mL	272 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
R2408140-013	Chemical Oxygen Demand, Total	N/A		Water	284.38 mg/L	2 mL	284 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
R2408433-001	Chemical Oxygen Demand, Total	N/A		Water	283.01 mg/L	2 mL	283 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
RQ2411298-05	Chemical Oxygen Demand, Total	MS	R2408433-001	Water	656.95 mg/L	2 mL	657 mg/L	1	3.8	5.0	100		9/6/24 14:00	N	II
RQ2411298-06	Chemical Oxygen Demand, Total	DMS	R2408433-001	Water	654.97 mg/L	2 mL	655 mg/L	1	3.8	5.0	99	<1	9/6/24 14:00	N	II
R2408713-001	Chemical Oxygen Demand, Total	N/A		Water	97.18 mg/L	2 mL	97.2 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
RQ2411298-07	Chemical Oxygen Demand, Total	CCV		Water	509.82 mg/L	2 mL	510 mg/L	1					9/6/24 14:00	N	II
RQ2411298-08	Chemical Oxygen Demand, Total	CCB		Water	-13.83 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-UV-VIS-06 **Analyst:** SDUBE **Analysis Lot:** 853296 **Method/Testcode:** Hach 8000 (1979)/COD T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ2411300-01	Chemical Oxygen Demand, Total	CCV		Water	51.13 mg/L	2 mL	51.1 mg/L	1					9/6/24 14:00	N	II
RQ2411300-02	Chemical Oxygen Demand, Total	CCB		Water	3.64 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	II
RQ2411300-03	Chemical Oxygen Demand, Total	LCS		Water	51.13 mg/L	2 mL	51.1 mg/L	1	3.8	5.0	102		9/6/24 14:00	N	II
RQ2411300-04	Chemical Oxygen Demand, Total	MB		Water	3.64 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	II
R2408454-002	Chemical Oxygen Demand, Total	N/A		Water	74.99 mg/L	2 mL	75.0 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
R2408474-001	Chemical Oxygen Demand, Total	N/A		Water	11.51 mg/L	2 mL	11.5 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
R2408599-005	Chemical Oxygen Demand, Total	N/A		Water	2.62 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	IV
R2408541-001	Chemical Oxygen Demand, Total	N/A		Water	88.74 mg/L	2 mL	88.7 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
R2408139-001	Chemical Oxygen Demand, Total	N/A		Water	8.61 mg/L	2 mL	8.6 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
R2408139-002	Chemical Oxygen Demand, Total	N/A		Water	-0.48 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	IV
RQ2411300-05	Chemical Oxygen Demand, Total	CCV		Water	51.37 mg/L	2 mL	51.4 mg/L	1					9/6/24 14:00	N	IV
RQ2411300-06	Chemical Oxygen Demand, Total	CCB		Water	1.25 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	IV
R2408139-005	Chemical Oxygen Demand, Total	N/A		Water	9.26 mg/L	2 mL	9.3 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
R2408139-008	Chemical Oxygen Demand, Total	N/A		Water	5.98 mg/L	2 mL	6.0 mg/L	1	3.8	5.0			9/6/24 14:00	Y	IV
RQ2411300-07	Chemical Oxygen Demand, Total	MS	R2408139-008	Water	30.82 mg/L	2 mL	30.8 mg/L	1	3.8	5.0	99		9/6/24 14:00	N	IV
RQ2411300-08	Chemical Oxygen Demand, Total	DMS	R2408139-008	Water	29.15 mg/L	2 mL	29.1 mg/L	1	3.8	5.0	93	6	9/6/24 14:00	N	IV
R2408453-001	Chemical Oxygen Demand, Total	N/A		Water	24.29 mg/L	2 mL	24.3 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
R2408139-010	Chemical Oxygen Demand, Total	N/A		Water	47.50 mg/L	2 mL	47.5 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
R2408139-013	Chemical Oxygen Demand, Total	N/A		Water	0.22 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	IV
R2408140-002	Chemical Oxygen Demand, Total	N/A		Water	99.24 mg/L	2 mL	99.2 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
R2408140-003	Chemical Oxygen Demand, Total	N/A		Water	21.95 mg/L	2 mL	21.9 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
RQ2411300-11	Chemical Oxygen Demand, Total	CCV		Water	47.25 mg/L	2 mL	47.3 mg/L	1					9/6/24 14:00	N	IV
RQ2411300-12	Chemical Oxygen Demand, Total	CCB		Water	-1.87 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-UV-VIS-06 **Analyst:** SDUBE **Analysis Lot:** 853296 **Method/Testcode:** Hach 8000 (1979)/COD T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R2408140-004	Chemical Oxygen Demand, Total	N/A		Water	5.32 mg/L	2 mL	5.3 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
R2408140-005	Chemical Oxygen Demand, Total	N/A		Water	25.74 mg/L	2 mL	25.7 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
R2408140-006	Chemical Oxygen Demand, Total	N/A		Water	8.29 mg/L	2 mL	8.3 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
R2408140-007	Chemical Oxygen Demand, Total	N/A		Water	5.65 mg/L	2 mL	5.6 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
RQ2411300-13	Chemical Oxygen Demand, Total	MS	R2408140-007	Water	30.54 mg/L	2 mL	30.5 mg/L	1	3.8	5.0	100		9/6/24 14:00	N	IV
RQ2411300-14	Chemical Oxygen Demand, Total	DMS	R2408140-007	Water	29.15 mg/L	2 mL	29.1 mg/L	1	3.8	5.0	94	5	9/6/24 14:00	N	IV
R2408140-008	Chemical Oxygen Demand, Total	N/A		Water	2.28 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	IV
R2408140-009	Chemical Oxygen Demand, Total	N/A		Water	2.96 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	IV
R2408140-011	Chemical Oxygen Demand, Total	N/A		Water	56.29 mg/L	2 mL	56.3 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
RQ2411300-15	Chemical Oxygen Demand, Total	CCV		Water	52.08 mg/L	2 mL	52.1 mg/L	1					9/6/24 14:00	N	IV
RQ2411300-16	Chemical Oxygen Demand, Total	CCB		Water	2.62 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-UV-VIS-06 **Analyst:** SDUBE **Analysis Lot:** 853297 **Method/Testcode:** Hach 8000 (1979)/COD T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ2411301-01	Chemical Oxygen Demand, Total	CCV		Water	52.08 mg/L	2 mL	52.1 mg/L	1					9/6/24 14:00	N	II
RQ2411301-02	Chemical Oxygen Demand, Total	CCB		Water	2.62 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	II
RQ2411301-03	Chemical Oxygen Demand, Total	LCS		Water	52.08 mg/L	2 mL	52.1 mg/L	1	3.8	5.0	104		9/6/24 14:00	N	II
RQ2411301-04	Chemical Oxygen Demand, Total	MB		Water	2.62 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	II
R2408604-001	Chemical Oxygen Demand, Total	N/A		Water	47.74 mg/L	2 mL	47.7 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
R2408613-001	Chemical Oxygen Demand, Total	N/A		Water	11.51 mg/L	2 mL	11.5 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
RQ2411301-05	Chemical Oxygen Demand, Total	MS	R2408613-001	Water	35.18 mg/L	2 mL	35.2 mg/L	1	3.8	5.0	95		9/6/24 14:00	N	II
RQ2411301-06	Chemical Oxygen Demand, Total	DMS	R2408613-001	Water	31.92 mg/L	2 mL	31.9 mg/L	1	3.8	5.0	82*	10	9/6/24 14:00	N	II
R2408639-004	Chemical Oxygen Demand, Total	N/A		Water	198.63 mg/L	2 mL	199 mg/L	10	38	50			9/6/24 14:00	N	II
R2408376-001	Chemical Oxygen Demand, Total	N/A		Water	31.09 mg/L	2 mL	31.1 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
R2408212-001	Chemical Oxygen Demand, Total	N/A		Water	1.94 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	IV
R2408212-002	Chemical Oxygen Demand, Total	N/A		Water	16.21 mg/L	2 mL	16.2 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
R2408212-003	Chemical Oxygen Demand, Total	N/A		Water	4.65 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	IV
R2408212-004	Chemical Oxygen Demand, Total	N/A		Water	3.98 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	IV
RQ2411301-07	Chemical Oxygen Demand, Total	CCV		Water	52.08 mg/L	2 mL	52.1 mg/L	1					9/6/24 14:00	N	IV
RQ2411301-08	Chemical Oxygen Demand, Total	CCB		Water	0.56 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	IV
R2408212-005	Chemical Oxygen Demand, Total	N/A		Water	6.31 mg/L	2 mL	6.3 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
R2408212-007	Chemical Oxygen Demand, Total	N/A		Water	5.65 mg/L	2 mL	5.6 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
RQ2411301-09	Chemical Oxygen Demand, Total	MS	R2408212-007	Water	31.09 mg/L	2 mL	31.1 mg/L	1	3.8	5.0	102		9/6/24 14:00	N	IV
RQ2411301-10	Chemical Oxygen Demand, Total	DMS	R2408212-007	Water	30.26 mg/L	2 mL	30.3 mg/L	1	3.8	5.0	98	3	9/6/24 14:00	N	IV
R2408212-008	Chemical Oxygen Demand, Total	N/A		Water	2.96 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	IV
R2408212-009	Chemical Oxygen Demand, Total	N/A		Water	4.98 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	IV
R2408212-010	Chemical Oxygen Demand, Total	N/A		Water	0.56 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	Y	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-UV-VIS-06 **Analyst:** SDUBE **Analysis Lot:** 853297 **Method/Testcode:** Hach 8000 (1979)/COD T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ2411301-11	Chemical Oxygen Demand, Total	MS	R2408212-010	Water	25.45 mg/L	2 mL	25.4 mg/L	1	3.8	5.0	102		9/6/24 14:00	N	IV
RQ2411301-12	Chemical Oxygen Demand, Total	DMS	R2408212-010	Water	25.45 mg/L	2 mL	25.4 mg/L	1	3.8	5.0	102	<1	9/6/24 14:00	N	IV
R2408212-011	Chemical Oxygen Demand, Total	N/A		Water	4.31 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	IV
RQ2411301-13	Chemical Oxygen Demand, Total	CCV		Water	50.41 mg/L	2 mL	50.4 mg/L	1					9/6/24 14:00	N	II
RQ2411301-14	Chemical Oxygen Demand, Total	CCB		Water	2.96 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	II
R2408430-001	Chemical Oxygen Demand, Total	N/A		Water	14.35 mg/L	2 mL	14.4 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
R2408431-001	Chemical Oxygen Demand, Total	N/A		Water	42.75 mg/L	2 mL	42.8 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
~~R2408433-002~~	~~Chemical Oxygen Demand, Total~~	~~N/A~~		~~Water~~	~~109.62 mg/L~~	~~2 mL~~	~~110 mg/L~~	~~1~~	~~3.8~~	~~5.0~~			9/6/24 14:00	N	II
RQ2411301-15	Chemical Oxygen Demand, Total	CCV		Water	49.20 mg/L	2 mL	49.2 mg/L	1					9/6/24 14:00	N	II
RQ2411301-16	Chemical Oxygen Demand, Total	CCB		Water	2.62 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	II

OK 9/11/24

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Sample Dilutions

Final Volume: 8-10mL - COD

Analyst: SD
Instrument: R-UV-VIS-06

Date 9/16/24
Analysis COD

Common Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution factor	mL's of Sample	mL's of Diluent	Dilution Factor
1/2		4	4	1/2												
1/3		3	6	1/3												
1/4		2	6	1/4												
1/5		2	8	1/5												
1/10		1	9	1/10												
1/20		1	1	1/2	1	9	1/20									
1/30		3	6	1/3	1	9	1/30									
1/40		1	3	1/4	1	9	1/40									
1/50		1	4	1/5	1	9	1/50									
1/100		1	9	1/10	1	9	1/100									
1/200		1	1	1/2	1	9	1/20	1	9	1/200						
1/300		3	6	1/3	1	9	1/30	1	9	1/300						
1/400		1	3	1/4	1	9	1/40	1	9	1/400						
1/500		1	4	1/5	1	9	1/50	1	9	1/500						
1/1000		1	9	1/10	1	9	1/100	1	9	1/1000						
1/2000		1	1	1/2	1	9	1/20	1	9	1/200	1	9	1/2000			
1/3000		3	6	1/3	1	9	1/30	1	9	1/300	1	9	1/3000			
1/4000		1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000			
1/10000		1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000			
1/20000		1	1	1/2	1	9	1/20	1	9	1/200	1	9	1/2000	1	9	1/20000
1/40000		1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000	1	9	1/40000
1/100000		1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000	1	9	1/100000

Special Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor
1/10	DI	1	9	1/10												

Analyte: Chemical Oxygen Demand
Method: 410.4 Manual Colorimetric
Spectrophotometer: MR21D

Analyst: SD
Date: 9/6/2024
Time: 14:00
Pipette(s): MAGNUS/HULK

Calibration: DOD Pipette Verification: N/A

Std	Conc.	% T.	Log % T.	mg/l
1	2000	14.8	1.170	1957.520
2	1500	22.2	1.346	1539.149
3	900	40.3	1.605	923.912
4	500	60.1	1.779	511.533
5	200	81.1	1.909	202.322
6	100	90.4	1.956	90.305
7	50	95.0	1.978	39.093
8	0	100.0	2.000	-13.833
9				
10				

Block 3 = 150°C. Verified Annually

	Therm ID
COD Block 1	464
COD Block 2	465

Run Vial Lot #: 235608
Run Vial Check Date: 9/4/2024
Calibration Vial Lot #: 229115
C.C = -0.9994323 %RE low 21.8
y-int. = 1.9941776 %RE mid 2.6
Slope: -0.0004209
Wavelength: 620
Curve Date: 7/16/2024
Last LCR Verif: 7/16/2024 (due 6 months)

	1	2	3
Start Time:	12:00		
End Time:	14:00		
Block 1 (°C):	150		
Block 2 (°C):	150		

Block ID	Vial ID	Misc.	Order #	% T.	Log % T.	Result mg/L	Dilution	Final Result	Comments
		TV=500	ICV	60.4	1.781	506.3952	1.00	506.395	101.3
			ICB	100.0	2.000	-13.8332	1.00	-13.833	SDL
1	1	TV=500	CCV/LCS	60.1	1.779	511.5330	1.00	511.533	102.3
1	2		CCB/MB	100.0	2.000	-13.8332	1.00	-13.833	SDL
1	3		R2408456-001	89.2	1.950	104.0936	1.00	104.094	
1	4		R2408539-001	87.8	1.943	120.4166	1.00	120.417	
1	5		R2408257-001	85.2	1.930	151.4335	1.00	151.433	
1	6		R2408432-001	49.4	1.694	713.8327	1.00	713.833	
1	7	RAN LL	R2408454-002	88.9	1.949	107.5697	1.00	107.570	
1	8	RAN LL	R2408474-001	98.5	1.993	1.7615	1.00	1.761	
1	9	RAN LL	R2408599-005	99.8	1.999	-11.7675	1.00	-11.768	
1	10		R2408540-002	78.6	1.895	234.6295	1.00	234.630	
1	11	RAN LL	R2408541-001	90.7	1.958	86.8865	1.00	86.886	
1	12		R2408328-001	71.3	1.853	335.2074	10.00	3352.074	
1	13	TV=500	CCV/LCS	60.2	1.780	509.8176	1.00	509.818	102.0
1	14		CCB/MB	100.2	2.001	-15.8948	1.00	-15.895	SDL
2	15		R2408454-001	16.9	1.228	1820.6101	1.00	1820.610	
2	16		R2408540-001	42.6	1.629	866.6426	1.00	866.643	
2	17		R2408540-001 MS	30.8	1.489	1201.3054	1.00	1201.305	
2	18		R2408540-001 DMS	30.8	1.489	1201.3054	1.00	1201.305	
2	19		R2408484-002	84.9	1.929	155.0731	10.00	1550.731	
2	20		R2408554-001	86.2	1.936	139.3933	1.00	139.393	
2	21		R2408554-001 MS	60.6	1.782	502.9842	1.00	502.984	
2	22		R2408554-001 DMS	60.5	1.782	504.6883	1.00	504.688	
2	23		R2408140-010	57.4	1.759	558.9615	10.00	5589.615	
2	24		R2408139-003	82.8	1.918	180.9163	1.00	180.916	
2	25	TV=500	CCV/LCS	60.3	1.780	508.1050	1.00	508.105	101.6
2	26		CCB/MB	100.1	2.000	-14.8645	1.00	-14.865	SDL
2	27		R2408139-004	82.1	1.914	189.6766	1.00	189.677	
2	28		R2408139-007	14.6	1.164	1971.5584	1.00	1971.558	
2	29		R2408139-012	43.8	1.641	837.9788	1.00	837.979	
2	30		R2408140-012	75.8	1.880	272.0575	1.00	272.057	
2	31		R2408140-013	74.9	1.874	284.3821	1.00	284.382	
2	32		R2408433-001	75.0	1.875	283.0054	1.00	283.005	
2	33		R2408433-001 MS	52.2	1.718	656.9459	1.00	656.946	
2	34		R2408433-001 DMS	52.3	1.719	654.9711	1.00	654.971	

Analyte: Chemical Oxygen Demand
Method: 410.4 Manual Colorimetric
Spectrophotometer: MR21D

Analyst: SD
Date: 9/6/2024
Time: 14:00
Pipette(s): MAGNUS/HULK

Calibration: DOD Pipette Verification: N/A

Std	Conc.	% T.	Log % T.	mg/l
1	2000	14.8	1.170	1957.520
2	1500	22.2	1.346	1539.149
3	900	40.3	1.605	923.912
4	500	60.1	1.779	511.533
5	200	81.1	1.909	202.322
6	100	90.4	1.956	90.305
7	50	95.0	1.978	39.093
8	0	100.0	2.000	-13.833
9				
10				

Block 3 = 150°C. Verified Annually

	Therm ID
COD Block 1	464
COD Block 2	465

Run Vial Lot #: 235608
Run Vial Check Date: 9/4/2024
Calibration Vial Lot #: 229115
C.C = -0.9994323 %RE low 21.8
y-int. = 1.9941776 %RE mid 2.6
Slope: -0.0004209
Wavelength: 620
Curve Date: 7/16/2024
Last LCR Verif: 7/16/2024 (due 6 months)

	1	2	3
Start Time:	12:00		
End Time:	14:00		
Block 1 (°C):	150		
Block 2 (°C):	150		

Block ID	Vial ID	Misc.	Order #	% T.	Log % T.	Result mg/L	Dilution	Final Result	Comments
2	35	RAN LL	R2408140-002	89.2	1.950	104.0936	1.00	104.094	
2	36		R2408713-001	89.8	1.953	97.1763	1.00	97.176	
2	37	TV=500	CCV/LCS	60.2	1.780	509.8176	1.00	509.818	102.0
2	38		CCB/MB	100.0	2.000	-13.8332	1.00	-13.833	501

Analyte: Chemical Oxygen Demand
Method: 410.4 Manual Colorimetric
Spectrophotometer: MR21D

Analyst: SD
Date: 9/6/2024
Time: 14:00
Pipette(s): MAGNUS/HULK
DOD Pipette Verification: N/A

Therm ID
COD Block 1: 464
COD Block 2: 465

Run Vial Lot #: 236128
Date of Run Lot Check: 9/6/2024
Calibration Vial Lot: 229608

Calibration:

Std	Conc.	% T.	Log % T.	mg/l
1	100	82.1	1.914	100.078
2	70	66.2	1.821	70.494
3	40	52.8	1.723	39.410
4	20	45.5	1.658	18.960
5	10	42.8	1.631	10.552
6	5	40.9	1.612	4.312
7	2	40.2	1.604	1.939
8	0	40.0	1.602	1.254
9				
10				

Block 3 = 150°C Verified annually

C.C = 0.999786 %RE low 13.8
y-int. = 1.598098 %RE mid 0.7
Slope: 0.003160
Wavelength: 420
Curve Date: 7/16/2024
Last LCR Verif: 7/16/2024 (due 6 months)

	1	2	3
Start Time:	12:00		
End Time:	14:00		
Block 1 (°C):	150		
Block 2 (°C):			

Block ID	Vial ID	Misc.	Order #	% T.	Log % T.	Result mg/L	Dilution	Final Result mg/L	Comments
		TV=50	ICV	56.9	1.755	49.6884	1.00	49.688	99.4
			ICB	40.0	1.602	1.2537	1.00	1.254	
3	1		CCV/LCS	57.5	1.760	51.1300	1.00	51.130	102.3
3	2		CCB/MB	40.7	1.610	3.6381	1.00	3.638	
3	3	RAN HL	R2408539-001	87.3	1.941	108.5186	1.00	108.519	Repeat
3	4	RAN HL	R2408257-001	109.8	2.041	140.0341	1.00	140.034	Repeat
3	5		R2408454-002	68.4	1.835	74.9873	1.00	74.987	
3	6		R2408474-001	43.1	1.634	11.5124	1.00	11.512	
3	7		R2408599-005	40.4	1.606	2.6213	1.00	2.621	
3	8		R2408541-001	75.6	1.879	88.7424	1.00	88.742	
3	9		R2408139-001	42.2	1.625	8.6122	1.00	8.612	
3	10		R2408139-002	39.5	1.597	-0.4751	1.00	-0.475	
3	11	RAN HL	R2408139-003	115.3	2.062	146.7515	1.00	146.752	Repeat
3	12	RAN HL	R2408139-004	116.7	2.067	148.4103	1.00	148.410	Repeat
3	13		CCV/LCS	57.6	1.760	51.3688	1.00	51.369	102.7
3	14		CCB/MB	40.0	1.602	1.2537	1.00	1.254	
3	15		R2408139-005	42.4	1.627	9.2620	1.00	9.262	
3	16		R2408139-008	41.4	1.617	5.9817	1.00	5.982	
3	17		R2408139-008 MS!	49.6	1.695	30.8178	1.00	30.818	
3	18		R2408139-008 DMS!	49.0	1.690	29.1451	1.00	29.145	
3	19		R2408453-001	47.3	1.675	24.2923	1.00	24.292	
3	20		R2408139-010	56.0	1.748	47.4972	1.00	47.497	
3	21	RAN HL	R2408139-012	159.4	2.202	191.2642	1.00	191.264	Repeat
3	22		R2408139-013	39.7	1.599	0.2191	1.00	0.219	
3	23		R2408140-002	81.6	1.912	99.2388	1.00	99.239	
3	24		R2408140-003	46.5	1.667	21.9479	1.00	21.948	
3	25		CCV/LCS	55.9	1.747	47.2515	1.00	47.252	94.5
3	26		CCB/MB	39.1	1.592	-1.8739	1.00	-1.874	
3	27		R2408140-004	41.2	1.615	5.3162	1.00	5.316	
3	28		R2408140-005	47.8	1.679	25.7374	1.00	25.737	
3	29		R2408140-006	42.1	1.624	8.2861	1.00	8.286	
3	30		R2408140-007	41.3	1.616	5.6494	1.00	5.649	
3	31		R2408140-007 MS	49.5	1.695	30.5404	1.00	30.540	
3	32		R2408140-007 DMS	49.0	1.690	29.1451	1.00	29.145	
3	33		R2408140-008	40.3	1.605	2.2807	1.00	2.281	

Analyte: Chemical Oxygen Demand Analyst: SD

Method: 410.4 Manual Colorimetric Date: 9/6/2024

Spectrophotometer: MR21D Time: 14:00

Pipette(s): MAGNUS/HULK

Calibration: DOD Pipette Verification: N/A

Std	Conc.	% T.	Log % T.	mg/l
1	100	82.1	1.914	100.078
2	70	66.2	1.821	70.494
3	40	52.8	1.723	39.410
4	20	45.5	1.658	18.960
5	10	42.8	1.631	10.552
6	5	40.9	1.612	4.312
7	2	40.2	1.604	1.939
8	0	40.0	1.602	1.254
9				
10				

Block 3 = 150°C Verified annually

Therm ID

COD Block 1: 464

COD Block 2: 465

Run Vial Lot #: 236128

Date of Run Lot Check: 9/6/2024

Calibration Vial Lot: 229608

C.C = 0.999786 %RE low 13.8

y-int. = 1.598098 %RE mid 0.7

Slope: 0.003160

Wavelength: 420

Curve Date: 7/16/2024

Last LCR Verif: 7/16/2024 (due 6 months)

	1	2	3
Start Time:	12:00		
End Time:	14:00		
Block 1 (°C):	150		
Block 2 (°C):			

Block ID	Vial ID	Misc.	Order #	% T.	Log % T.	Result mg/L	Dilution	Final Result mg/L	Comments
3	34		R2408140-009	40.5	1.607	2.9610	1.00	2.961	
3	35		R2408140-011	59.7	1.776	56.2904	1.00	56.290	
3	36	RAN HL	R2408140-013	158.9	2.201	190.8325	1.00	190.832	Repeat
3	37		CCV/LCS	57.9	1.763	52.0828	1.00	52.083	104.2
3	38		CCB/MB	40.4	1.606	2.6213	1.00	2.621	
3	39		R2408604-001	56.1	1.749	47.7424	1.00	47.742	
3	40		R2408613-001	43.1	1.634	11.5124	1.00	11.512	
3	41		R2408613-001 MS	51.2	1.709	35.1812	1.00	35.181	
3	42		R2408613-001 DMS	50.0	1.699	31.9217	1.00	31.922	
3	43		R2408639-004	45.8	1.661	19.8632	10.00	198.632	
3	44		R2408376-001	49.7	1.696	31.0946	1.00	31.095	
3	45		R2408212-001	40.2	1.604	1.9392	1.00	1.939	
3	46		R2408212-002	44.6	1.649	16.2143	1.00	16.214	
3	47		R2408212-003	41.0	1.613	4.6474	1.00	4.647	
3	48		R2408212-004	40.8	1.611	3.9753	1.00	3.975	
3	49		CCV/LCS	57.9	1.763	52.0828	1.00	52.083	104.2
3	50		CCB/MB	39.8	1.600	0.5648	1.00	0.565	
3	51		R2408212-005	41.5	1.618	6.3133	1.00	6.313	
3	52		R2408212-007	41.3	1.616	5.6494	1.00	5.649	
3	53		R2408212-007 MS	49.7	1.696	31.0946	1.00	31.095	
3	54		R2408212-007 DMS	49.4	1.694	30.2625	1.00	30.262	
3	55		R2408212-008	40.5	1.607	2.9610	1.00	2.961	
3	56		R2408212-009	41.1	1.614	4.9822	1.00	4.982	
1	57		R2408212-010	39.8	1.600	0.5648	1.00	0.565	
1	58		R2408212-010 MS!	47.7	1.679	25.4496	1.00	25.450	
1	59		R2408212-010 DMS!	47.7	1.679	25.4496	1.00	25.450	
1	60		R2408212-011	40.9	1.612	4.3118	1.00	4.312	
1	61		CCV/LCS	57.2	1.757	50.4111	1.00	50.411	100.8
1	62		CCB/MB	40.5	1.607	2.9610	1.00	2.961	
1	63		R2408430-001	44.0	1.643	14.3528	1.00	14.353	
1	64		R2408431-001	54.1	1.733	42.7532	1.00	42.753	
1	65	NEED HL	R2408433-002	88.0	1.944	109.6162	1.00	109.616	Repeat
1	66		CCV/LCS	56.7	1.754	49.2045	1.00	49.204	98.4
1	67		CCB/MB	40.4	1.606	2.6213	1.00	2.621	
1	68		LOT CHECK	48.0	1.681	26.3113	1.00	26.311	

ALS Environmental
1565 Jefferson Rd., Rochester, NY 14623

General Chemistry Analytical Run Cover Sheet

Analyst: SD Date: 9/6/24

Analysis: COD High-Level Instrument: (R-UV-VIS-06) Milton-Roy Spec 21D

PRIMARY STOCKS	Log # Prep/Exp. Dates	Reagent	Weight (g)	Final Vol. (mLs)	Conc. (mg/L
Standard *	**236296** **Prep: 7/16/2024** **Expires: 2/11/2025**	KHP 210662 Exp: 2/11/2025	8.5034	1000	10,000 (A)
Reference *	**236319** **Prep: 7/16/2024** **Expires: 7/16/2025**	KHP 236315 Exp: 6/21/2027	4.2517	1000	5,000 (B)

Working Stock Prep	Serial Dilutions**			
	Stock Soln (mLs)	Stock Soln (mg/L)	Final Volume (mLs)	True Value (mg/L)
Reference	1	5,000	10	500 (D)

Quality Control					
	ICV/CCV/LCS	2.00	500 (D)	2	500
	MS/DMS	0.375	10,000 (A)	10	375

Standard Curve Prep	Concentration (mg/L)	mLs DI Water	mLs 10,000 mg/L Stock (A)
	2000.00	8.00	2.00
	1500.00	8.50	1.50
	900.00	9.10	0.90
	500.00	9.50	0.5
	200.000	9.80	0.2
	100.000	9.90	0.1
	50.000	1/10 dil'n of 500 mg/L Std.	

Comments:

For Standard Curve: Add 2.0 mL of each standard to a High Level COD vial
For ICV/CCV/LCS: Add 2.0 mL of Reference (D) to a High Level COD vial
For MS: Add 2.0 mL of the 10 mL solution to a High Level COD vial

** Prepare fresh daily

ALS Environmental
1565 Jefferson Rd., Rochester, NY 14623

General Chemistry Analytical Run Cover Sheet

Analyst: SD Date: 9/6/24

Analysis: COD Low-Level Instrument: (R-UV-VIS-06) Milton-Roy Spec 21D

PRIMARY STOCKS	Log # Prep/Exp. Dates	Reagent	Weight (g)	Final Vol. (mLs)	Conc. (mg/L
Standard *	**236296** **Prep: 7/16/2024** **Expires: 2/11/2025**	KHP 210662 Exp: 2/11/2025	8.5034	1000	10,000 (A)
Reference *	**236319** **Prep: 7/16/2024** **Expires: 7/16/2025**	KHP 236315 Exp: 6/21/2027	4.2517	1000	5,000 (B)

Working Stock Prep	Serial Dilutions**			
	Stock Soln (mLs)	Stock Soln (mg/L)	Final Volume (mLs)	True Value (mg/L)
Standard	1	10,000	10	1000 (C)
Reference	1	5,000	100	50 (D)

Quality Control				
ICV/CCV/LCS	2.00	50 (D)	2	50.00
MS/DMS	0.25	1000 (C)	10	0.25

Standard Curve Prep	Concentration (mg/L)	mLs DI Water	mLs 1000 mg/L Working Stock (C)
	100.00	9.00	1.00
	70.00	9.30	0.70
	40.00	9.60	0.40
	20.00	9.8	0.2
	10.000	9.9	0.1
	5.000	9.95	0.05
	2.000	9.98	0.02

Comments:

For Standard Curve: Add 2.0 mL of each standard to a Low Level COD vial
For ICV/CCV/LCS: Add 2.0 mL of Reference (D) to a Low Level COD vial
For MS: Add 2.0 mL of the 10 mL solution to a Low Level COD vial

** Prepare fresh daily

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 854126 **Method/Testcode:** 300.0/Chloride

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2Q2411714-01	Chloride	CCV		Water	4.14 mg/L	10 mL	4.14 mg/L	1					9/15/24 08:01	N	IV
2Q2411714-01	Nitrate as Nitrogen	CCV		Water	1.97 mg/L	10 mL	1.97 mg/L	1					9/15/24 08:01	N	IV
2Q2411714-01	Nitrite as Nitrogen	CCV		Water	2.05 mg/L	10 mL	2.05 mg/L	1					9/15/24 08:01	N	IV
2Q2411714-01	Sulfate	CCV		Water	4.18 mg/L	10 mL	4.18 mg/L	1					9/15/24 08:01	N	IV
2Q2411714-02	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 08:07	N	IV
2Q2411714-02	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			9/15/24 08:07	N	IV
2Q2411714-02	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			9/15/24 08:07	N	IV
2Q2411714-02	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 08:07	N	IV
2Q2411714-03	Chloride	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 08:07	N	IV
2Q2411714-03	Nitrate as Nitrogen	MB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			9/15/24 08:07	N	IV
2Q2411714-03	Nitrite as Nitrogen	MB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			9/15/24 08:07	N	IV
2Q2411714-03	Sulfate	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 08:07	N	IV
2Q2411714-04	Chloride	LCS		Water	2.02 mg/L	10 mL	2.02 mg/L	1	0.05	0.20	101		9/15/24 08:13	N	IV
2Q2411714-04	Nitrate as Nitrogen	LCS		Water	1.00 mg/L	10 mL	0.995 mg/L	1	0.02	0.10	100		9/15/24 08:13	N	IV
2Q2411714-04	Nitrite as Nitrogen	LCS		Water	1.00 mg/L	10 mL	1.00 mg/L	1	0.02	0.10	100		9/15/24 08:13	N	IV
2Q2411714-04	Sulfate	LCS		Water	2.05 mg/L	10 mL	2.05 mg/L	1	0.04	0.20	103		9/15/24 08:13	N	IV
2409013-001	Nitrate as Nitrogen	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/15/24 08:20	N	IV
2409013-001	Sulfate	N/A		Water	0.00 mg/L	10 mL	2.0 mg/L U	10	0.4	2.0			9/15/24 08:20	N	IV
2409013-002	Chloride	N/A		Water	3.46 mg/L	10 mL	3.5 mg/L	10	0.5	2.0			9/15/24 08:26	N	IV
2409013-002	Nitrate as Nitrogen	N/A		Water	0.26 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/15/24 08:26	N	IV
2409013-002	Sulfate	N/A		Water	29.08 mg/L	10 mL	29.1 mg/L	10	0.4	2.0			9/15/24 08:26	N	IV
2409013-003	Nitrate as Nitrogen	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/15/24 08:32	N	IV
2409013-003	Sulfate	N/A		Water	0.00 mg/L	10 mL	2.0 mg/L U	10	0.4	2.0			9/15/24 08:32	N	IV
2409013-004	Chloride	N/A		Water	8.05 mg/L	10 mL	8.0 mg/L	10	0.5	2.0			9/15/24 08:38	Y	IV
2409013-004	Nitrate as Nitrogen	N/A		Water	0.83 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/15/24 08:38	Y	IV
2409013-004	Sulfate	N/A		Water	16.20 mg/L	10 mL	16.2 mg/L	10	0.4	2.0			9/15/24 08:38	Y	IV
2Q2411714-09	Chloride	MS	R2409013-004	Water	27.10 mg/L	10 mL	27.1 mg/L	10	0.5	2.0	95		9/15/24 08:45	N	IV
2Q2411714-09	Nitrate as Nitrogen	MS	R2409013-004	Water	10.38 mg/L	10 mL	10.4 mg/L	10	0.2	1.0	104		9/15/24 08:45	N	IV
2Q2411714-09	Sulfate	MS	R2409013-004	Water	35.00 mg/L	10 mL	35.0 mg/L	10	0.4	2.0	94		9/15/24 08:45	N	IV
2Q2411714-10	Chloride	DMS	R2409013-004	Water	27.01 mg/L	10 mL	27.0 mg/L	10	0.5	2.0	95	<1	9/15/24 08:51	N	IV
2Q2411714-10	Nitrate as Nitrogen	DMS	R2409013-004	Water	10.36 mg/L	10 mL	10.4 mg/L	10	0.2	1.0	104	<1	9/15/24 08:51	N	IV
2Q2411714-10	Sulfate	DMS	R2409013-004	Water	34.87 mg/L	10 mL	34.9 mg/L	10	0.4	2.0	93	<1	9/15/24 08:51	N	IV
2409013-006	Nitrate as Nitrogen	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/15/24 08:57	N	IV
2409013-006	Sulfate	N/A		Water	91.78 mg/L	10 mL	91.8 mg/L	10	0.4	2.0			9/15/24 08:57	N	IV
2409013-007	Chloride	N/A		Water	0.00 mg/L	10 mL	2.0 mg/L U	10	0.5	2.0			9/15/24 09:03	N	IV
2409013-007	Nitrate as Nitrogen	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/15/24 09:03	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 854126 **Method/Testcode:** 300.0/SO4

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R2409013-007	Sulfate	N/A		Water	0.00 mg/L	10 mL	2.0 mg/L U	10	0.4	2.0			9/15/24 09:03	N	IV
R2409014-001	Chloride	N/A		Water	53.59 mg/L	10 mL	53.6 mg/L	10	0.5	2.0			9/15/24 09:10	N	IV
R2409014-001	Nitrate as Nitrogen	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/15/24 09:10	N	IV
R2409014-001	Sulfate	N/A		Water	26.69 mg/L	10 mL	26.7 mg/L	10	0.4	2.0			9/15/24 09:10	N	IV
RQ2411714-05	Chloride	CCV		Water	4.10 mg/L	10 mL	4.10 mg/L	1					9/15/24 09:16	N	IV
RQ2411714-05	Nitrate as Nitrogen	CCV		Water	1.95 mg/L	10 mL	1.95 mg/L	1					9/15/24 09:16	N	IV
RQ2411714-05	Nitrite as Nitrogen	CCV		Water	2.06 mg/L	10 mL	2.06 mg/L	1					9/15/24 09:16	N	IV
RQ2411714-05	Sulfate	CCV		Water	3.97 mg/L	10 mL	3.97 mg/L	1					9/15/24 09:16	N	IV
RQ2411714-06	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 09:22	N	IV
RQ2411714-06	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			9/15/24 09:22	N	IV
RQ2411714-06	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			9/15/24 09:22	N	IV
RQ2411714-06	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 09:22	N	IV
R2408912-001	Chloride	N/A		Water	54.49 mg/L	10 mL	54.5 mg/L	10	0.5	2.0			9/15/24 09:28	N	II
R2408912-001	Nitrate as Nitrogen	N/A		Water	0.63 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/15/24 09:28	N	II
R2409005-001	Nitrite as Nitrogen	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/15/24 09:35	N	II
R2409005-001	Chloride	N/A		Water	131.51 mg/L	10 mL	132 mg/L	20	0.9	4.0			9/15/24 09:41	N	II
R2408385-007	Sulfate	N/A		Water	249.33 mg/L	10 mL	249 mg/L	40	1.6	8.0			9/15/24 09:47	N	II
R2408385-008	Sulfate	N/A		Water	268.99 mg/L	10 mL	269 mg/L	40	1.6	8.0			9/15/24 09:53	N	II
R2408385-009	Sulfate	N/A		Water	1597.47 mg/L	10 mL	1600 mg/L	300	12	60			9/15/24 10:00	N	II
R2408385-010	Sulfate	N/A		Water	924.80 mg/L	10 mL	925 mg/L	200	8	40			9/15/24 10:06	N	II
RQ2411714-11	Sulfate	MS	R2408385-010	Water	1294.04 mg/L	10 mL	1290 mg/L	200	8	40	92		9/15/24 10:12	N	II
RQ2411714-12	Sulfate	DMS	R2408385-010	Water	1295.61 mg/L	10 mL	1300 mg/L	200	8	40	93	<1	9/15/24 10:18	N	II
R2408385-011	Sulfate	N/A		Water	41.58 mg/L	10 mL	41.6 mg/L	10	0.4	2.0			9/15/24 10:25	N	II
RQ2411714-08	Chloride	CCV		Water	4.09 mg/L	10 mL	4.09 mg/L	1					9/15/24 10:32	N	II
RQ2411714-08	Nitrate as Nitrogen	CCV		Water	1.95 mg/L	10 mL	1.95 mg/L	1					9/15/24 10:32	N	II
RQ2411714-08	Nitrite as Nitrogen	CCV		Water	2.05 mg/L	10 mL	2.05 mg/L	1					9/15/24 10:32	N	II
RQ2411714-08	Sulfate	CCV		Water	3.98 mg/L	10 mL	3.98 mg/L	1					9/15/24 10:32	N	II
RQ2411714-07	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 10:38	N	II
RQ2411714-07	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			9/15/24 10:38	N	II
RQ2411714-07	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			9/15/24 10:38	N	II
RQ2411714-07	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 10:38	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 854128 **Method/Testcode:** 300.0/SO4

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2411715-01	Sulfate	CCV		Water	3.98 mg/L	10 mL	3.98 mg/L	1					9/15/24 10:32	N	II
KQ2411715-02	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 10:38	N	II
KQ2411715-03	Sulfate	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 10:38	N	II
KQ2411715-04	Sulfate	LCS		Water	2.02 mg/L	10 mL	2.02 mg/L	1	0.04	0.20	101		9/15/24 10:44	N	II
K2408385-012	Sulfate	N/A		Water	218.15 mg/L	10 mL	218 mg/L	40	1.6	8.0			9/15/24 10:51	N	II
K2408385-013	Sulfate	N/A		Water	416.97 mg/L	10 mL	417 mg/L	100	4	20			9/15/24 10:57	N	II
K2408385-014	Sulfate	N/A		Water	167.04 mg/L	10 mL	167 mg/L	40	1.6	8.0			9/15/24 11:03	N	II
K2408385-015	Sulfate	N/A		Water	1072.95 mg/L	10 mL	1070 mg/L	200	8	40			9/15/24 11:09	N	II
K2408385-016	Sulfate	N/A		Water	2469.31 mg/L	10 mL	2470 mg/L	400	16	80			9/15/24 11:16	N	II
K2408385-017	Sulfate	N/A		Water	303.75 mg/L	10 mL	304 mg/L	40	1.6	8.0			9/15/24 11:22	N	II
KQ2411715-09	Sulfate	MS	R2408385-017	Water	373.51 mg/L	10 mL	374 mg/L	40	1.6	8.0	87*		9/15/24 11:28	N	II
KQ2411715-10	Sulfate	DMS	R2408385-017	Water	373.85 mg/L	10 mL	374 mg/L	40	1.6	8.0	88*	<1	9/15/24 11:34	N	II
K2408385-018	Sulfate	N/A		Water	1403.47 mg/L	10 mL	1400 mg/L	200	8	40			9/15/24 11:41	N	II
KQ2411715-05	Sulfate	CCV		Water	3.97 mg/L	10 mL	3.97 mg/L	1					9/15/24 11:47	N	II
KQ2411715-06	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 11:53	N	II
K2408385-019	Sulfate	N/A		Water	7128.23 mg/L	10 mL	7130 mg/L	2000	80	400			9/15/24 11:59	N	II
K2408385-020	Sulfate	N/A		Water	7142.14 mg/L	10 mL	7140 mg/L	2000	80	400			9/15/24 12:06	N	II
K2408385-021	Sulfate	N/A		Water	163.80 mg/L	10 mL	164 mg/L	40	1.6	8.0			9/15/24 12:12	N	II
K2408385-023	Sulfate	N/A		Water	119.85 mg/L	10 mL	120 mg/L	20	0.8	4.0			9/15/24 12:18	N	II
K2408385-024	Sulfate	N/A		Water	384.79 mg/L	10 mL	385 mg/L	100	4	20			9/15/24 12:25	N	II
KQ2411715-11	Sulfate	MS	R2408385-024	Water	571.28 mg/L	10 mL	571 mg/L	100	4	20	93		9/15/24 12:31	N	II
KQ2411715-12	Sulfate	DMS	R2408385-024	Water	573.68 mg/L	10 mL	574 mg/L	100	4	20	94	<1	9/15/24 12:37	N	II
K2408139-001	Sulfate	N/A		Water	25.86 mg/L	10 mL	25.9 mg/L	10	0.4	2.0			9/15/24 12:43	N	IV
K2408139-002	Sulfate	N/A		Water	68.90 mg/L	10 mL	68.9 mg/L	10	0.4	2.0			9/15/24 12:50	N	IV
K2408139-003	Sulfate	N/A		Water	6.21 mg/L	10 mL	6.2 mg/L	10	0.4	2.0			9/15/24 12:56	N	IV
KQ2411715-08	Sulfate	CCV		Water	3.95 mg/L	10 mL	3.95 mg/L	1					9/15/24 13:02	N	IV
KQ2411715-07	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 13:08	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 854129 **Method/Testcode:** 300.0/Chloride

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ2411716-02	Chloride	CCV		Water	4.06 mg/L	10 mL	4.06 mg/L	1					9/15/24 13:02	N	IV
RQ2411716-02	Sulfate	CCV		Water	3.95 mg/L	10 mL	3.95 mg/L	1					9/15/24 13:02	N	IV
RQ2411716-01	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 13:08	N	IV
RQ2411716-01	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 13:08	N	IV
RQ2411716-04	Chloride	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 13:08	N	IV
RQ2411716-04	Sulfate	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 13:08	N	IV
RQ2411716-03	Chloride	LCS		Water	2.02 mg/L	10 mL	2.02 mg/L	1	0.05	0.20	101		9/15/24 13:15	N	IV
RQ2411716-03	Sulfate	LCS		Water	2.01 mg/L	10 mL	2.01 mg/L	1	0.04	0.20	100		9/15/24 13:15	N	IV
R2408139-004	Sulfate	N/A		Water	6.14 mg/L	10 mL	6.1 mg/L	10	0.4	2.0			9/15/24 13:21	N	IV
R2408139-005	Sulfate	N/A		Water	24.59 mg/L	10 mL	24.6 mg/L	10	0.4	2.0			9/15/24 13:27	N	IV
R2408139-008	Sulfate	N/A		Water	40.54 mg/L	10 mL	40.5 mg/L	10	0.4	2.0			9/15/24 13:40	Y	IV
RQ2411716-09	Sulfate	MS	R2408139-008	Water	58.29 mg/L	10 mL	58.3 mg/L	10	0.4	2.0	89*		9/15/24 13:46	N	IV
RQ2411716-10	Sulfate	DMS	R2408139-008	Water	57.99 mg/L	10 mL	58.0 mg/L	10	0.4	2.0	87*	<1	9/15/24 13:52	N	IV
R2408139-010	Sulfate	N/A		Water	1.36 mg/L	10 mL	1.4 mg/L J	10	0.4	2.0			9/15/24 13:58	N	IV
R2408139-012	Sulfate	N/A		Water	68.10 mg/L	10 mL	68.1 mg/L	10	0.4	2.0			9/15/24 14:05	N	IV
R2408139-013	Sulfate	N/A		Water	0.00 mg/L	10 mL	2.0 mg/L U	10	0.4	2.0			9/15/24 14:11	N	IV
RQ2411716-05	Chloride	CCV		Water	4.10 mg/L	10 mL	4.10 mg/L	1					9/15/24 14:17	N	IV
RQ2411716-05	Sulfate	CCV		Water	3.99 mg/L	10 mL	3.99 mg/L	1					9/15/24 14:17	N	IV
RQ2411716-06	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 14:23	N	IV
RQ2411716-06	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 14:23	N	IV
R2408139-006	Sulfate	N/A		Water	0.00 mg/L	10 mL	20 mg/L U	100	4	20			9/15/24 14:30	N	IV
R2408140-008	Sulfate	N/A		Water	0.00 mg/L	10 mL	2.0 mg/L U	10	0.4	2.0			9/15/24 14:36	N	IV
R2408140-010	Sulfate	N/A		Water	19.17 mg/L	10 mL	19.2 mg/L	10	0.4	2.0			9/15/24 14:42	N	IV
R2408212-010	Chloride	N/A		Water	223.77 mg/L	10 mL	224 mg/L	50	3	10			9/15/24 15:01	Y	IV
RQ2411716-11	Chloride	MS	R2408212-010	Water	318.11 mg/L	10 mL	318 mg/L	50	3	10	94		9/15/24 15:07	N	IV
RQ2411716-12	Chloride	DMS	R2408212-010	Water	318.76 mg/L	10 mL	319 mg/L	50	3	10	95	<1	9/15/24 15:13	N	IV
RQ2411716-08	Chloride	CCV		Water	4.13 mg/L	10 mL	4.13 mg/L	1					9/15/24 15:20	N	IV
RQ2411716-08	Sulfate	CCV		Water	4.01 mg/L	10 mL	4.01 mg/L	1					9/15/24 15:20	N	IV
RQ2411716-07	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 15:26	N	IV
RQ2411716-07	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 15:26	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** CWOODS **Analysis Lot:** 854283 **Method/Testcode:** 300.0/SO4

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2411626-03	Sulfate	CCV		Water	3.95 mg/L	10 mL	3.95 mg/L	1					9/15/24 13:02:37	N	II
KQ2411626-06	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 13:08:53	N	II
KQ2411626-08	Sulfate	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 13:08:53	N	II
KQ2411626-07	Sulfate	LCS		Water	2.01 mg/L	10 mL	2.01 mg/L	1	0.04	0.20	100		9/15/24 13:15:07	N	II
KQ2411626-02	Sulfate	CCV		Water	3.99 mg/L	10 mL	3.99 mg/L	1					9/15/24 14:17:41	N	II
KQ2411626-05	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 14:23:57	N	II
K2408635-001	Sulfate	N/A		Water	0.00 mg/L	10 mL	2.0 mg/L U	10	0.4	2.0			9/15/24 14:55:12	N	II
KQ2411626-01	Sulfate	CCV		Water	4.01 mg/L	10 mL	4.01 mg/L	1					9/15/24 15:20:13	N	II
KQ2411626-04	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 15:26:29	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Determination overview IC10 pipette: Chrome/Bottom 300.0/9056A 9/15/24 KL

	Method name	Determination start	Position	Ident	Dilution	Info 1	Info 2
1	10-091224FAST	2024-09-15 08:01:23 UTC-4	1	CCV	1	300.0/9056A	
2	10-091224FAST	2024-09-15 08:07:41 UTC-4	2	CCB	1	300.0/9056A	
3	10-091224FAST	2024-09-15 08:13:55 UTC-4	3	LCS 854126	1	300.0/9056A	
4	10-091224FAST	2024-09-15 08:20:11 UTC-4	4	R2409013-001	10	300.0 NS	
5	10-091224FAST	2024-09-15 08:26:27 UTC-4	5	R2409013-002	10	300.0 CNS	
6	10-091224FAST	2024-09-15 08:32:42 UTC-4	6	R2409013-003	10	300.0 NS	
7	10-091224FAST	2024-09-15 08:38:56 UTC-4	7	R2409013-004	10	300.0 CNS	
8	10-091224FAST	2024-09-15 08:45:11 UTC-4	8	R2409013-004 MSI	10	300.0 CNS	
9	10-091224FAST	2024-09-15 08:51:27 UTC-4	9	R2409013-004 MSDI	10	300.0 CNS	
10	10-091224FAST	2024-09-15 08:57:42 UTC-4	10	R2409013-006	10	300.0 NS	
11	10-091224FAST	2024-09-15 09:03:57 UTC-4	11	R2409013-007	10	300.0 CNS	
12	10-091224FAST	2024-09-15 09:10:12 UTC-4	12	R2409014-001	10	300.0 CNS	
13	10-091224FAST	2024-09-15 09:16:26 UTC-4	13	CCV	1	300.0/9056A	
14	10-091224FAST	2024-09-15 09:22:42 UTC-4	14	CCB	1	300.0/9056A	
15	10-091224FAST	2024-09-15 09:28:57 UTC-4	15	R2408912-001	10	300.0 CN	
16	10-091224FAST	2024-09-15 09:35:12 UTC-4	16	R2409005-001	10	300.0 CN	
17	10-091224FAST	2024-09-15 09:41:27 UTC-4	17	R2409005-001	20	300.0 CN	
18	10-091224FAST	2024-09-15 09:47:42 UTC-4	18	R2408385-007	40	300.0 S	
19	10-091224FAST	2024-09-15 09:53:56 UTC-4	19	R2408385-008	40	300.0 S	
20	10-091224FAST	2024-09-15 10:00:11 UTC-4	20	R2408385-009	300	300.0 S	
21	10-091224FAST	2024-09-15 10:06:26 UTC-4	21	R2408385-010	200	300.0 S	
22	10-091224FAST	2024-09-15 10:12:40 UTC-4	22	R2408385-010 MS	200	300.0 S	
23	10-091224FAST	2024-09-15 10:18:56 UTC-4	23	R2408385-010 MSD	200	300.0 S	
24	10-091224FAST	2024-09-15 10:25:11 UTC-4	24	R2408385-011	10	300.0 S	
25	10-091224FAST	2024-09-15 10:32:07 UTC-4	25	CCV	1	300.0/9056A	
26	10-091224FAST	2024-09-15 10:38:39 UTC-4	26	CCB	1	300.0/9056A	
27	10-091224FAST	2024-09-15 10:44:54 UTC-4	27	LCS 854128	1	300.0/9056A	
28	10-091224FAST	2024-09-15 10:51:11 UTC-4	28	R2408385-012	40	300.0 S	
29	10-091224FAST	2024-09-15 10:57:26 UTC-4	29	R2408385-013	100	300.0 S	
30	10-091224FAST	2024-09-15 11:03:41 UTC-4	30	R2408385-014	40	300.0 S	
31	10-091224FAST	2024-09-15 11:09:56 UTC-4	31	R2408385-015	200	300.0 S	
32	10-091224FAST	2024-09-15 11:16:11 UTC-4	32	R2408385-016	400	300.0 S	
33	10-091224FAST	2024-09-15 11:22:26 UTC-4	33	R2408385-017	40	300.0 S	
34	10-091224FAST	2024-09-15 11:28:41 UTC-4	34	R2408385-017 MS	40	300.0 S	
35	10-091224FAST	2024-09-15 11:34:57 UTC-4	35	R2408385-017 MSD	40	300.0 S	
36	10-091224FAST	2024-09-15 11:41:13 UTC-4	36	R2408385-018	200	300.0 S	
37	10-091224FAST	2024-09-15 11:47:28 UTC-4	37	CCV	1	300.0/9056A	
38	10-091224FAST	2024-09-15 11:53:44 UTC-4	38	CCB	1	300.0/9056A	
39	10-091224FAST	2024-09-15 11:59:58 UTC-4	39	R2408385-019	2000	300.0 S	
40	10-091224FAST	2024-09-15 12:06:13 UTC-4	40	R2408385-020	2000	300.0 S	
41	10-091224FAST	2024-09-15 12:12:28 UTC-4	41	R2408385-021	40	300.0 S	
42	10-091224FAST	2024-09-15 12:18:43 UTC-4	42	R2408385-023	20	300.0 S	
43	10-091224FAST	2024-09-15 12:25:00 UTC-4	43	R2408385-024	100	300.0 S	
44	10-091224FAST	2024-09-15 12:31:15 UTC-4	44	R2408385-024 MS	100	300.0 S	
45	10-091224FAST	2024-09-15 12:37:31 UTC-4	45	R2408385-024 MSD	100	300.0 S	
46	10-091224FAST	2024-09-15 12:43:51 UTC-4	46	R2408139-001	10	300.0 S	
47	10-091224FAST	2024-09-15 12:50:07 UTC-4	47	R2408139-002	10	300.0 S	
48	10-091224FAST	2024-09-15 12:56:21 UTC-4	48	R2408139-003	10	300.0 S	
49	10-091224FAST	2024-09-15 13:02:37 UTC-4	49	CCV	1	300.0/9056A	
50	10-091224FAST	2024-09-15 13:08:53 UTC-4	50	CCB	1	300.0/9056A	
51	10-091224FAST	2024-09-15 13:15:07 UTC-4	51	LCS 854129	1	300.0/9056A	
52	10-091224FAST	2024-09-15 13:21:23 UTC-4	52	R2408139-004	10	300.0 S	
53	10-091224FAST	2024-09-15 13:27:39 UTC-4	53	R2408139-005	10	300.0 S	
54	10-091224FAST	2024-09-15 13:33:54 UTC-4	54	R2408139-007 DNR	10	300.0 S	
55	10-091224FAST	2024-09-15 13:40:09 UTC-4	55	R2408139-008	10	300.0 S	
56	10-091224FAST	2024-09-15 13:46:24 UTC-4	56	R2408139-008 MSI	10	300.0 S	
57	10-091224FAST	2024-09-15 13:52:40 UTC-4	57	R2408139-008 MSDI	10	300.0 S	
58	10-091224FAST	2024-09-15 13:58:55 UTC-4	58	R2408139-010	10	300.0 S	
59	10-091224FAST	2024-09-15 14:05:11 UTC-4	59	R2408139-012	10	300.0 S	
60	10-091224FAST	2024-09-15 14:11:27 UTC-4	60	R2408139-013	10	300.0 S	
61	10-091224FAST	2024-09-15 14:17:41 UTC-4	61	CCV	1	300.0/9056A	
62	10-091224FAST	2024-09-15 14:23:57 UTC-4	62	CCB	1	300.0/9056A	
63	10-091224FAST	2024-09-15 14:30:11 UTC-4	63	R2408139-006	100	300.0 S	FILTERED- OILY/ WAXY MA...

Determination overview

	Method name	Determination start	Position	Ident	Dilution	Info 1	Info 2
64	10-091224FAST	2024-09-15 14:36:26 UTC-4	64	R2408140-008	10	300.0 S	
65	10-091224FAST	2024-09-15 14:42:41 UTC-4	65	R2408140-010	10	300.0 S	
66	10-091224FAST	2024-09-15 14:48:56 UTC-4	66	R2408140-011 DNR	10	300.0 S	
67	10-091224FAST	2024-09-15 14:55:12 UTC-4	67	R2408635-001	10	300.0 C	
68	10-091224FAST	2024-09-15 15:01:27 UTC-4	68	R2408212-010	50	300.0 C	
69	10-091224FAST	2024-09-15 15:07:42 UTC-4	69	R2408212-010 MSI	50	300.0 C	
70	10-091224FAST	2024-09-15 15:13:57 UTC-4	70	R2408212-010 MSD!	50	300.0 C	
71	10-091224FAST	2024-09-15 15:20:13 UTC-4	71	CCV	1	300.0/9056A	
72	10-091224FAST	2024-09-15 15:26:29 UTC-4	72	CCB	1	300.0/9056A	

Sample Dilutions

Final Volume: 8-10mL - IC#3,10

Analyst: KAW|KW
Instrument: IC#10

Date 9-15-24
Analysis 300.0|9056A

Common Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor
1/2	DI	4.5	4.5	1/2												
1/3	DI	3	6	1/3												
1/4	DI	2	6	1/4												
1/5	DI	2	8	1/5												
1/10	DI	1	9	1/10												
1/20	DI	3	3	1/2	1	9	1/20									
1/30	DI	3	6	1/3	1	9	1/30									
1/40	DI	1	3	1/4	1	9	1/40									
1/50	DI	1	4	1/5	1	9	1/50									
1/100	DI	1	9	1/10	1	9	1/100									
1/200	DI	3	3	1/2	1	9	1/20	1	9	1/200						
1/300	DI	3	6	1/3	1	9	1/30	1	9	1/300						
1/400	DI	1	3	1/4	1	9	1/40	1	9	1/400						
1/500	DI	1	4	1/5	1	9	1/50	1	9	1/500						
1/1000	DI	1	9	1/10	1	9	1/100	1	9	1/1000						
1/2000	DI	3	3	1/2	1	9	1/20	1	9	1/200	1	9	1/2000			
1/3000	DI	3	6	1/3	1	9	1/30	1	9	1/300	1	9	1/3000			
1/4000	DI	1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000			
1/10000	DI	1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000			
1/20000	DI	1	1	1/2	1	9	1/20	1	9	1/200	1	9	1/2000	1	9	1/20000
1/40000	DI	1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000	1	9	1/40000
1/100000	DI	1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000	1	9	1/100000

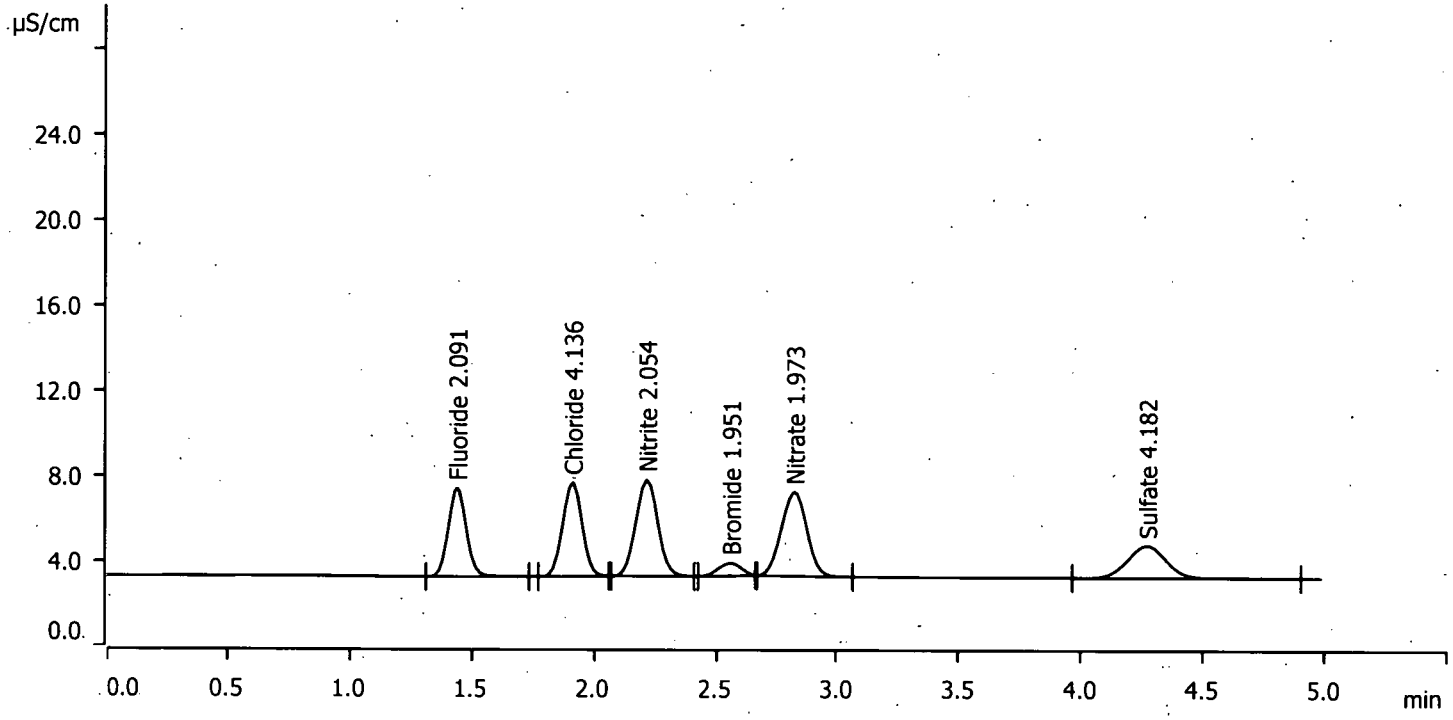
Special Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-15 08:01:23 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92291
Sample Position	1
Comment 1	300.0/9056A
Comment 2	

Anions



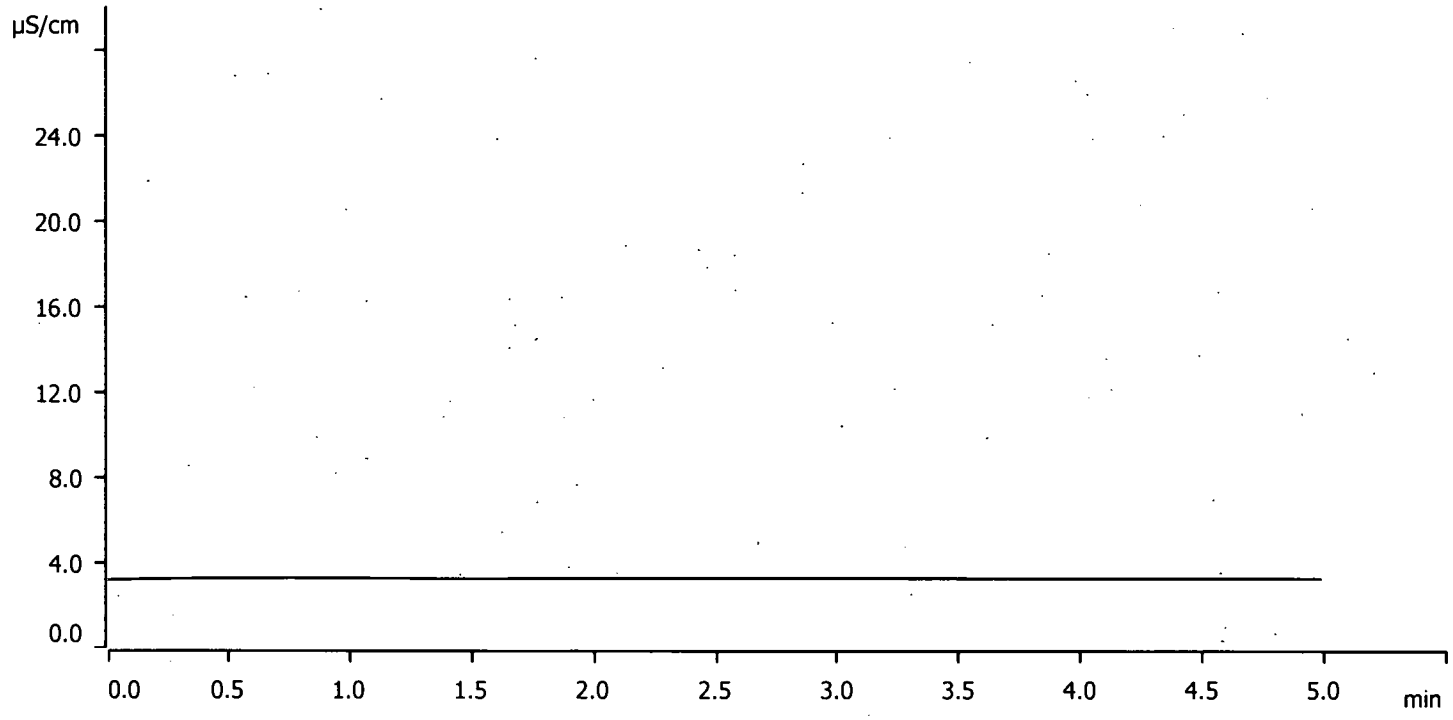
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.352	2.091	Fluoride	BB
2	1.92	0.401	4.136	Chloride	BB
3	2.22	0.474	2.054	Nitrite	BB
4	2.56	0.065	1.951	Bromide	BB
5	2.82	0.479	1.973	Nitrate	BB
6	4.27	0.281	4.182	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-15 08:07:41 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92292
Sample Position	2
Comment 1	300.0/9056A
Comment 2	

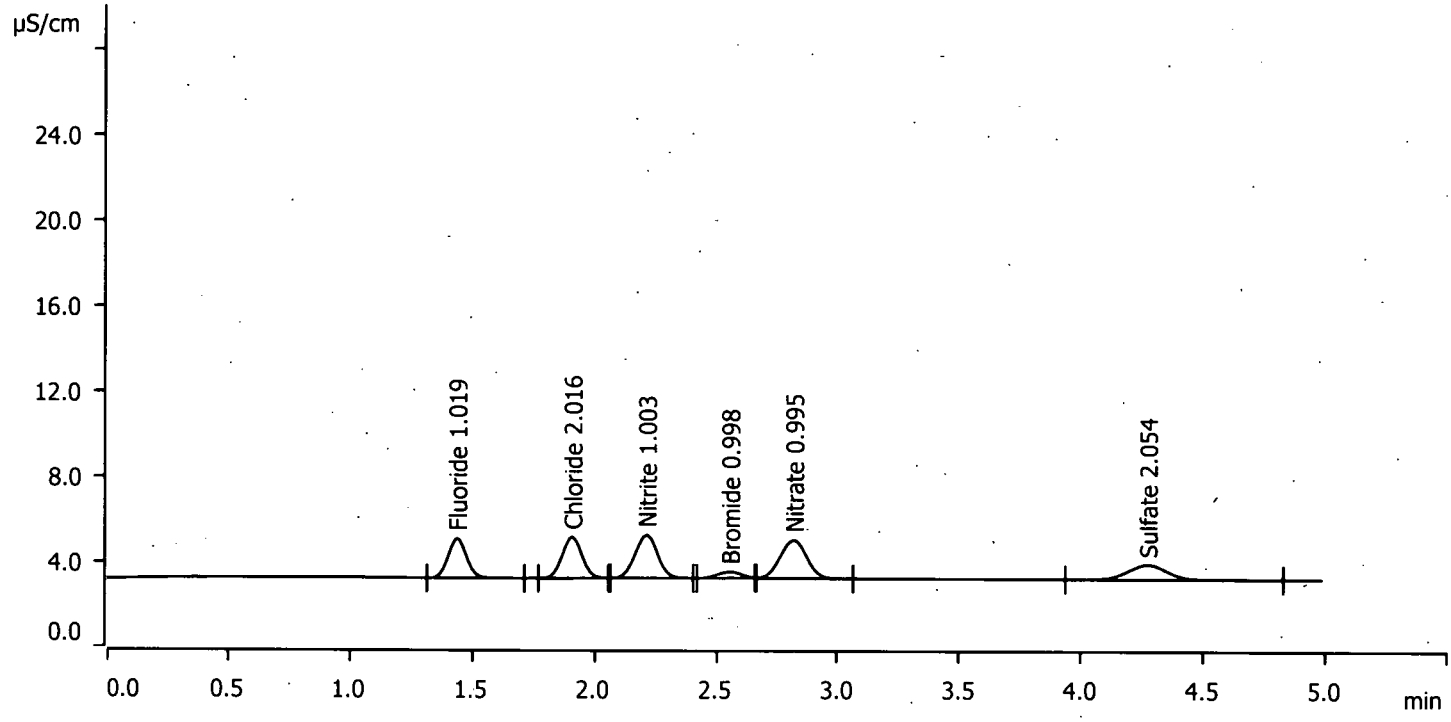
Anions



Sample data

Ident	LCS
Sample type	Check standard 2
Determination start	2024-09-15 08:13:55 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92293
Sample Position	3
Comment 1	300.0/9056A
Comment 2	

Anions



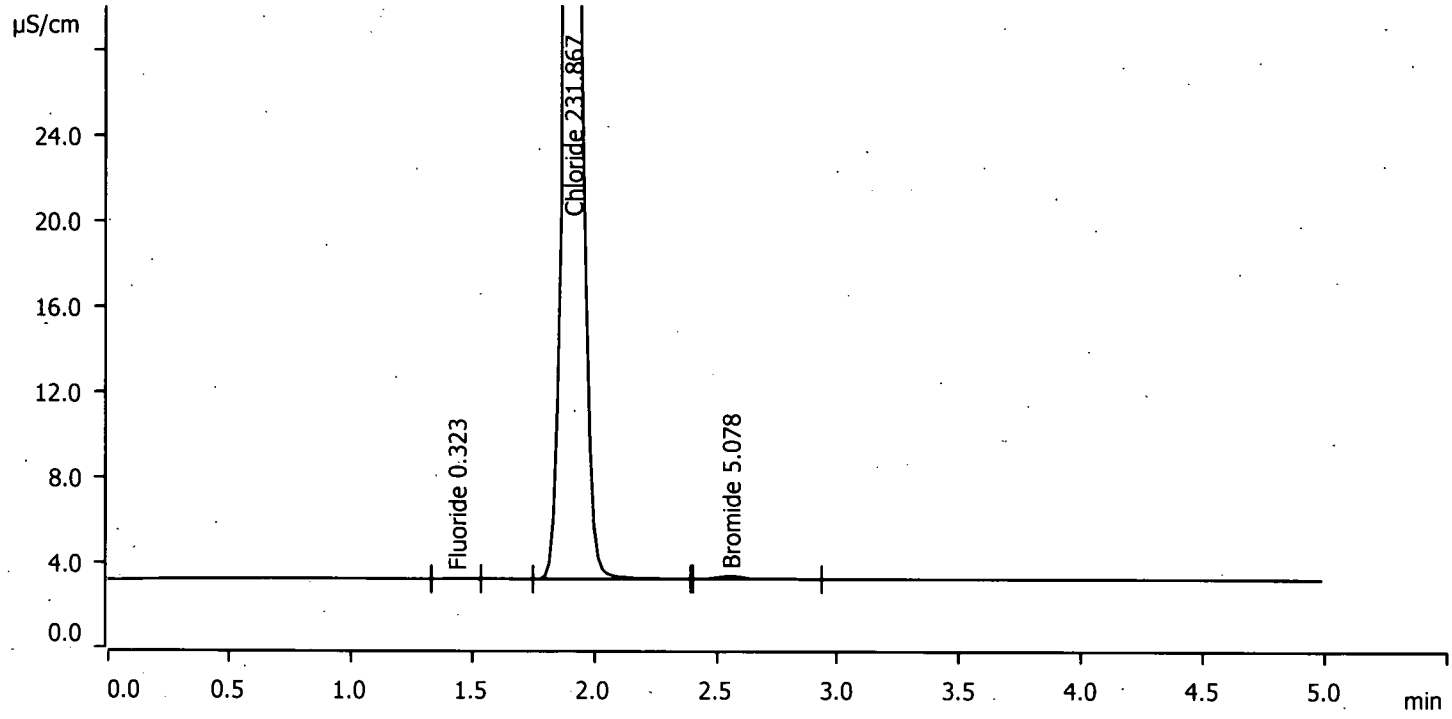
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.160	1.019	Fluoride	BB
2	1.91	0.181	2.016	Chloride	BB
3	2.22	0.217	1.003	Nitrite	BB
4	2.56	0.032	0.998	Bromide	BB
5	2.82	0.224	0.995	Nitrate	BB
6	4.27	0.132	2.054	Sulfate	BB

Sample data

Ident	R2409013-001
Sample type	Sample
Determination start	2024-09-15 08:20:11 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92294
Sample Position	4
Comment 1	300.0 NS
Comment 2	

Anions



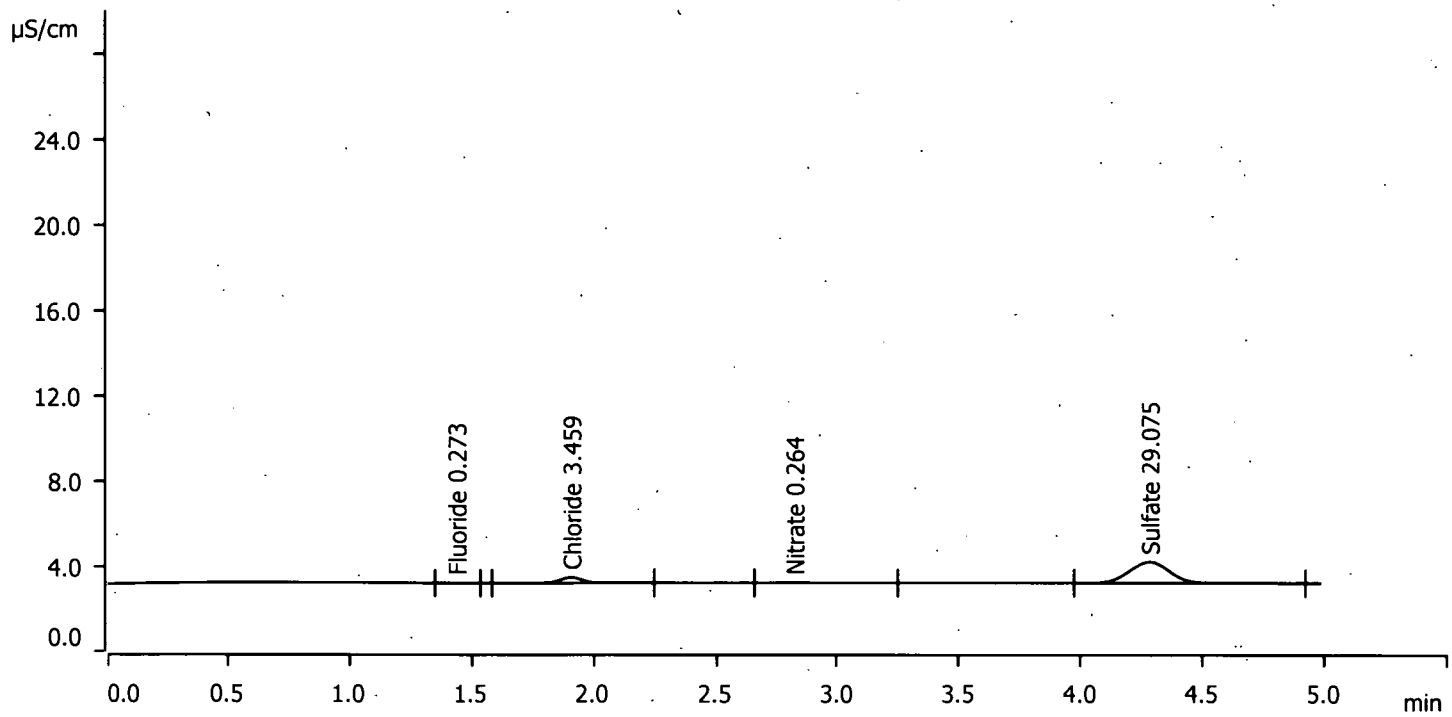
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.002	0.323	Fluoride	BB
2	1.92	3.617	231.867	Chloride	BB
3	2.56	0.016	5.078	Bromide	BBI

Sample data

Ident	R2409013-002
Sample type	Sample
Determination start	2024-09-15 08:26:27 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92295
Sample Position	5
Comment 1	300.0 CNS
Comment 2	

Anions



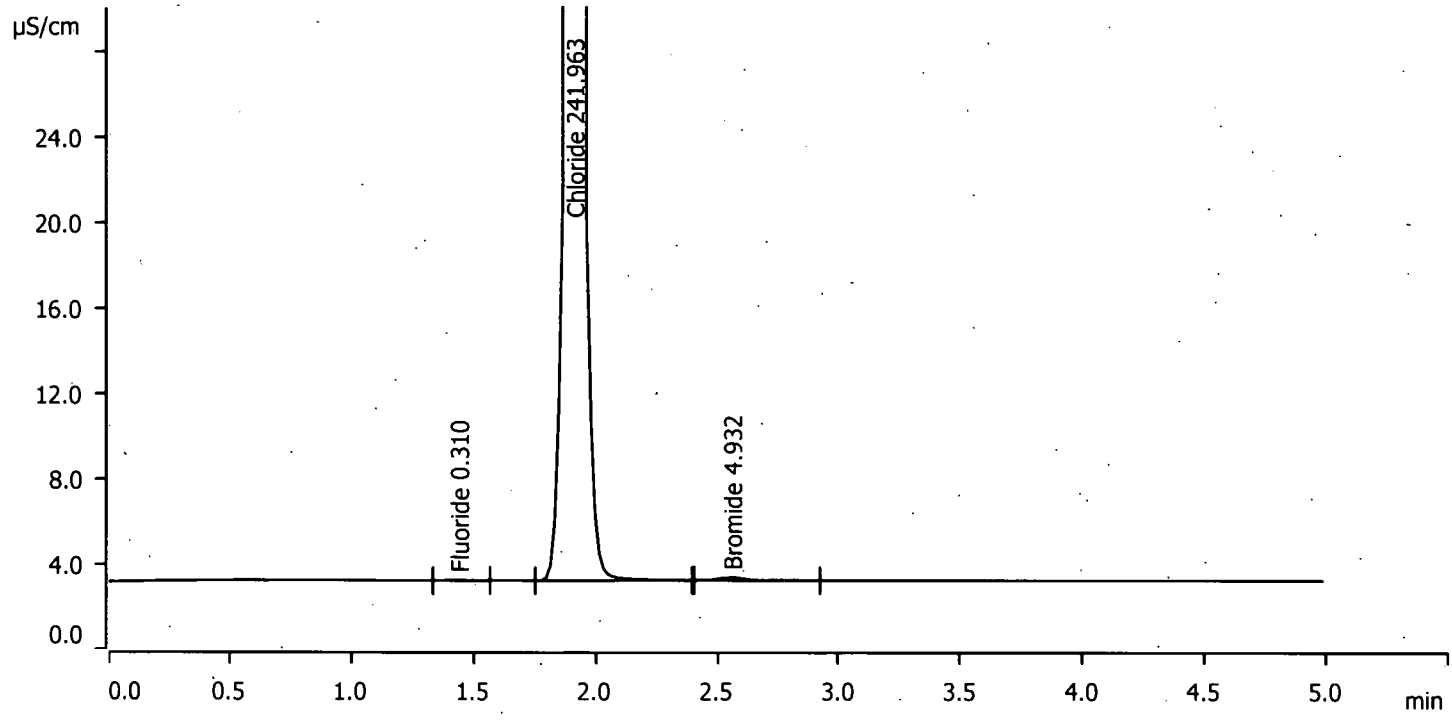
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.001	0.273	Fluoride	BB
2	1.91	0.028	3.459	Chloride	BB
3	2.82	0.002	0.264	Nitrate	BBI
4	4.28	0.190	29.075	Sulfate	BB

Sample data

Ident	R2409013-003
Sample type	Sample
Determination start	2024-09-15 08:32:42 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92296
Sample Position	6
Comment 1	300.0 NS
Comment 2	

Anions



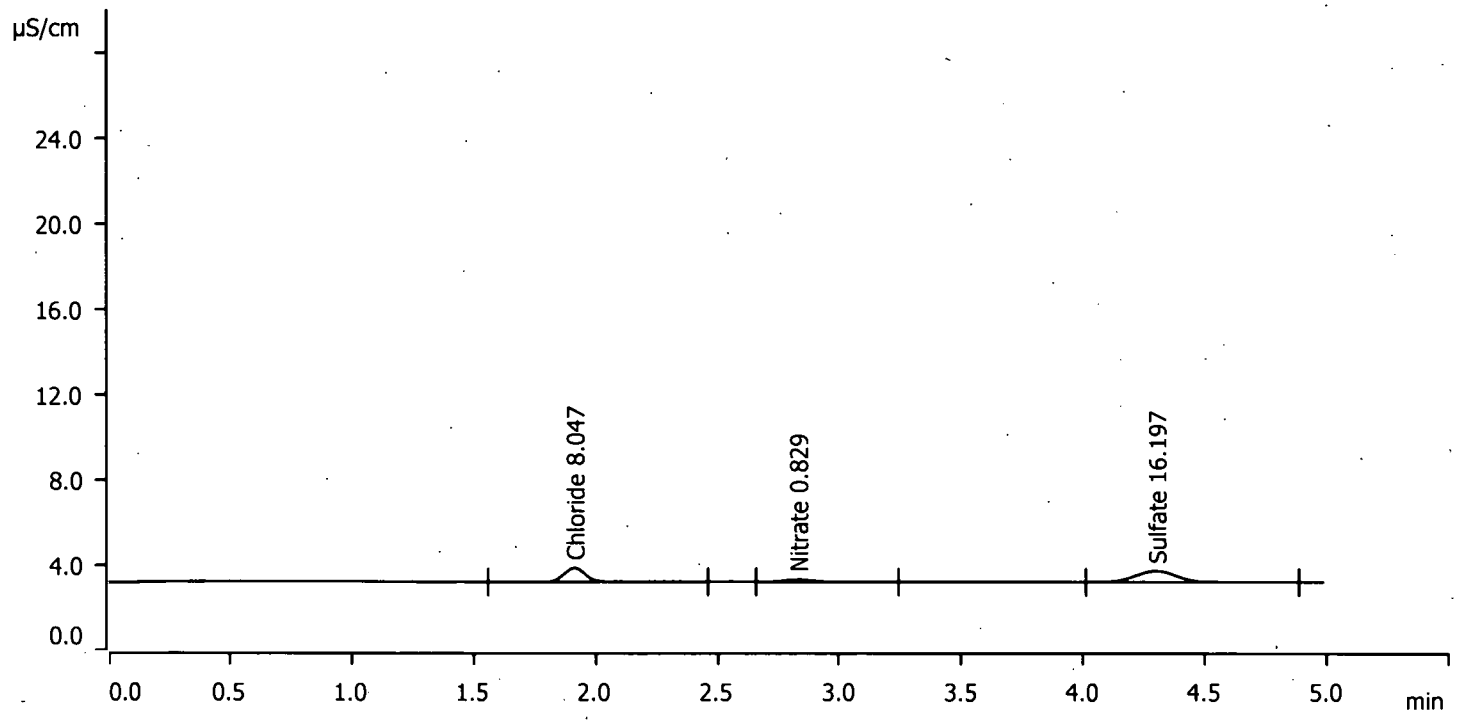
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.002	0.310	Fluoride	BB
2	1.92	3.849	241.963	Chloride	BB
3	2.56	0.016	4.932	Bromide	BBI

Sample data

Ident	R2409013-004
Sample type	Sample
Determination start	2024-09-15 08:38:56 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92297
Sample Position	7
Comment 1	300.0 CNS
Comment 2	

Anions



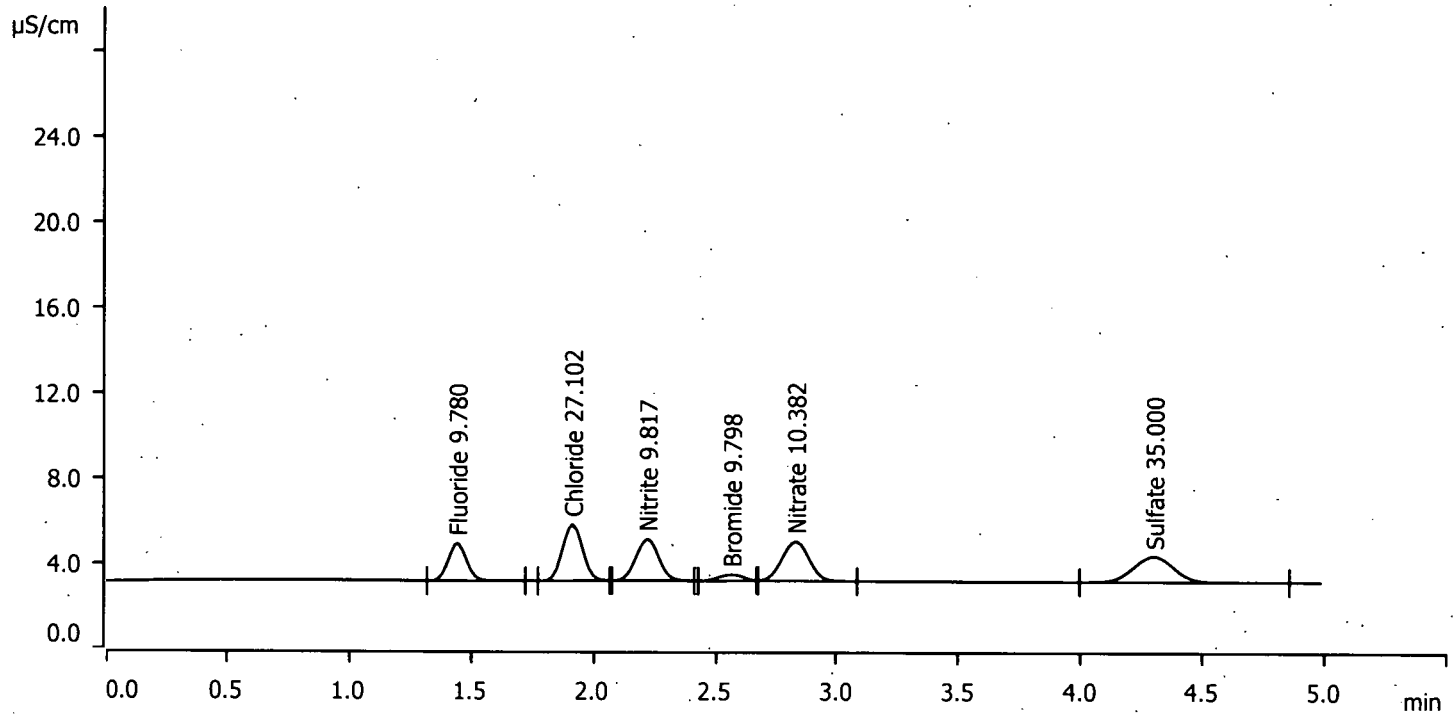
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.068	8.047	Chloride	BB
2	2.83	0.014	0.829	Nitrate	BB
3	4.30	0.103	16.197	Sulfate	BB

Sample data

Ident	R2409013-004 MS!
Sample type	Sample
Determination start	2024-09-15 08:45:11 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92298
Sample Position	8
Comment 1	300.0 CNS
Comment 2	

Anions



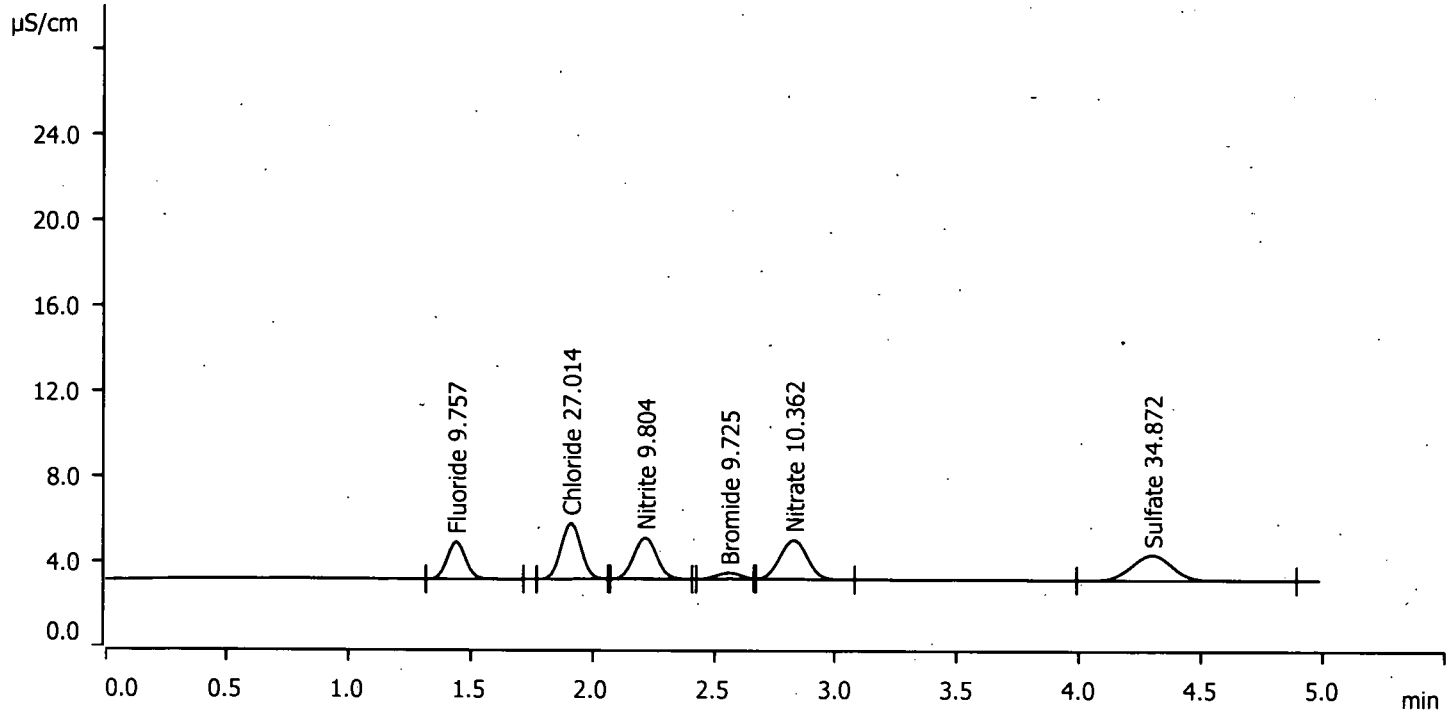
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.153	9.780	Fluoride	BB
2	1.92	0.250	27.102	Chloride	BB
3	2.22	0.212	9.817	Nitrite	BB
4	2.57	0.031	9.798	Bromide	BB
5	2.83	0.234	10.382	Nitrate	BB
6	4.30	0.232	35.000	Sulfate	BB

Sample data

Ident	R2409013-004 MSD!
Sample type	Sample
Determination start	2024-09-15 08:51:27 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92299
Sample Position	9
Comment 1	300.0 CNS
Comment 2	

Anions



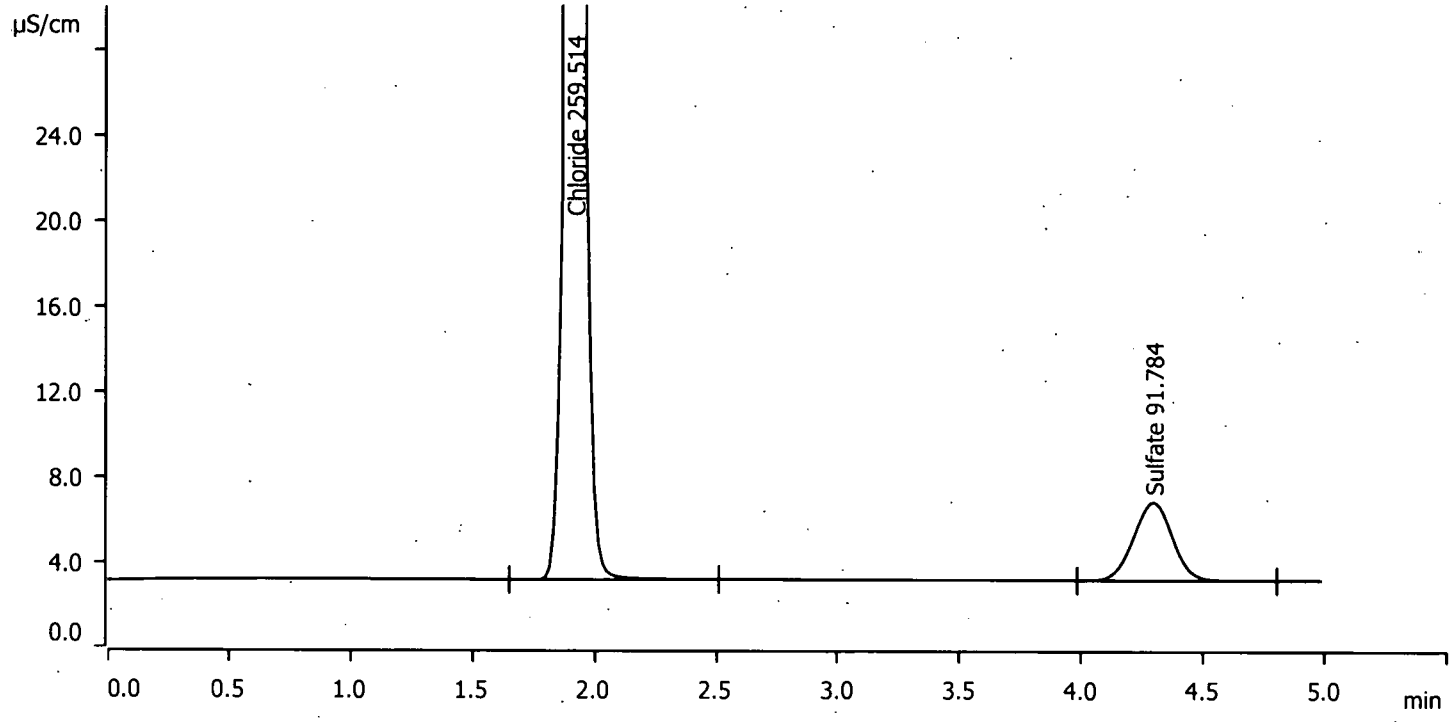
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.153	9.757	Fluoride	BB
2	1.92	0.249	27.014	Chloride	BB
3	2.22	0.211	9.804	Nitrite	BB
4	2.57	0.031	9.725	Bromide	BB
5	2.83	0.234	10.362	Nitrate	BB
6	4.30	0.231	34.872	Sulfate	BB

Sample data

Ident	R2409013-006
Sample type	Sample
Determination start	2024-09-15 08:57:42 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92300
Sample Position	10
Comment 1	300.0 NS
Comment 2	

Anions



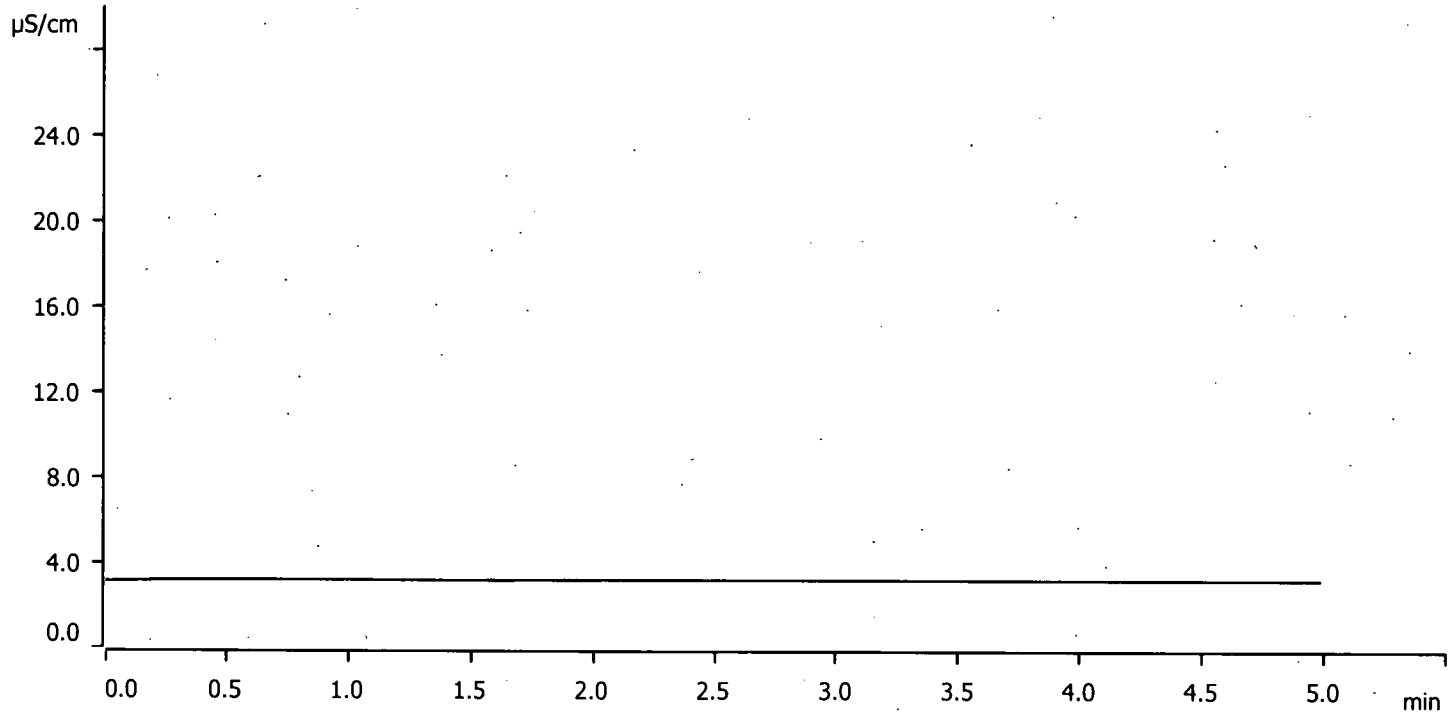
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	4.269	259.514	Chloride	BB
2	4.30	0.679	91.784	Sulfate	BB

Sample data

Ident	R2409013-007
Sample type	Sample
Determination start	2024-09-15 09:03:57 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92301
Sample Position	11
Comment 1	300.0 CNS
Comment 2	

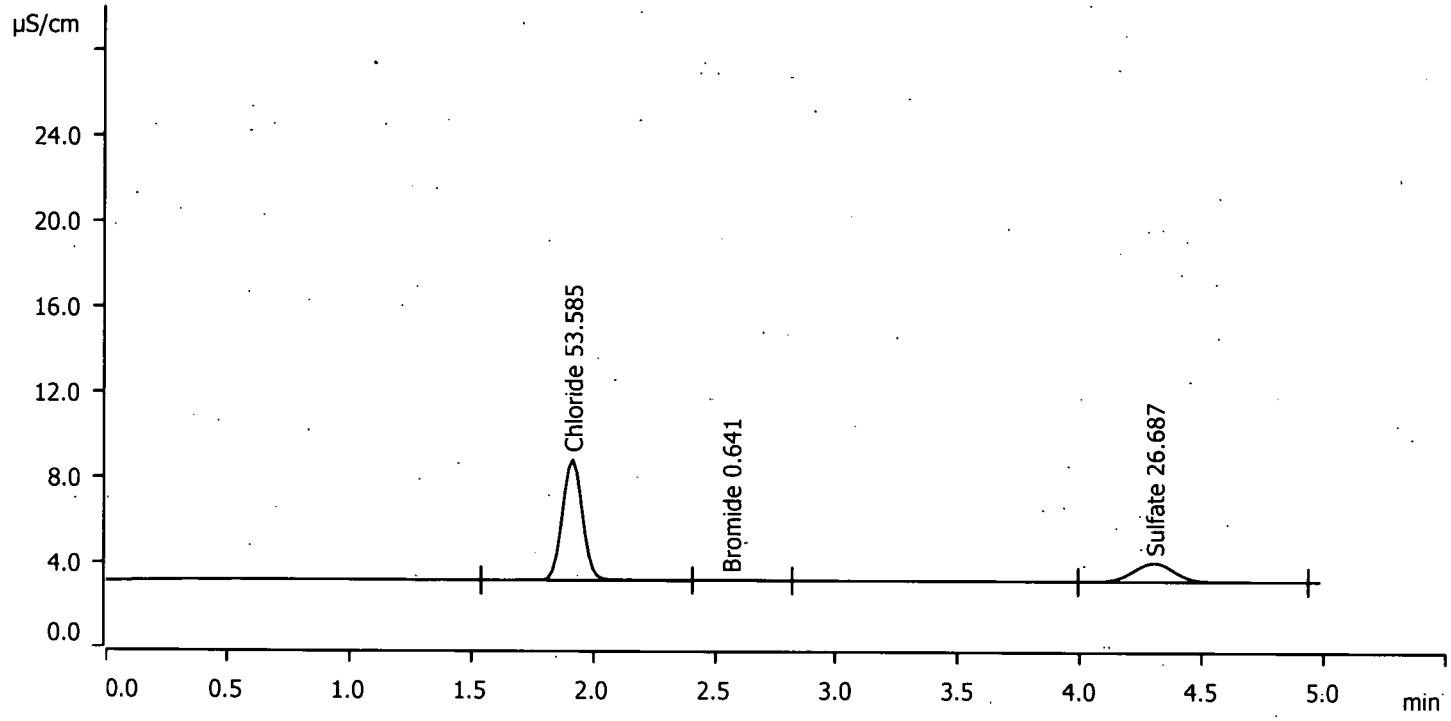
Anions



Sample data

Ident	R2409014-001
Sample type	Sample
Determination start	2024-09-15 09:10:12 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92302
Sample Position	12
Comment 1	300.0 CNS
Comment 2	

Anions



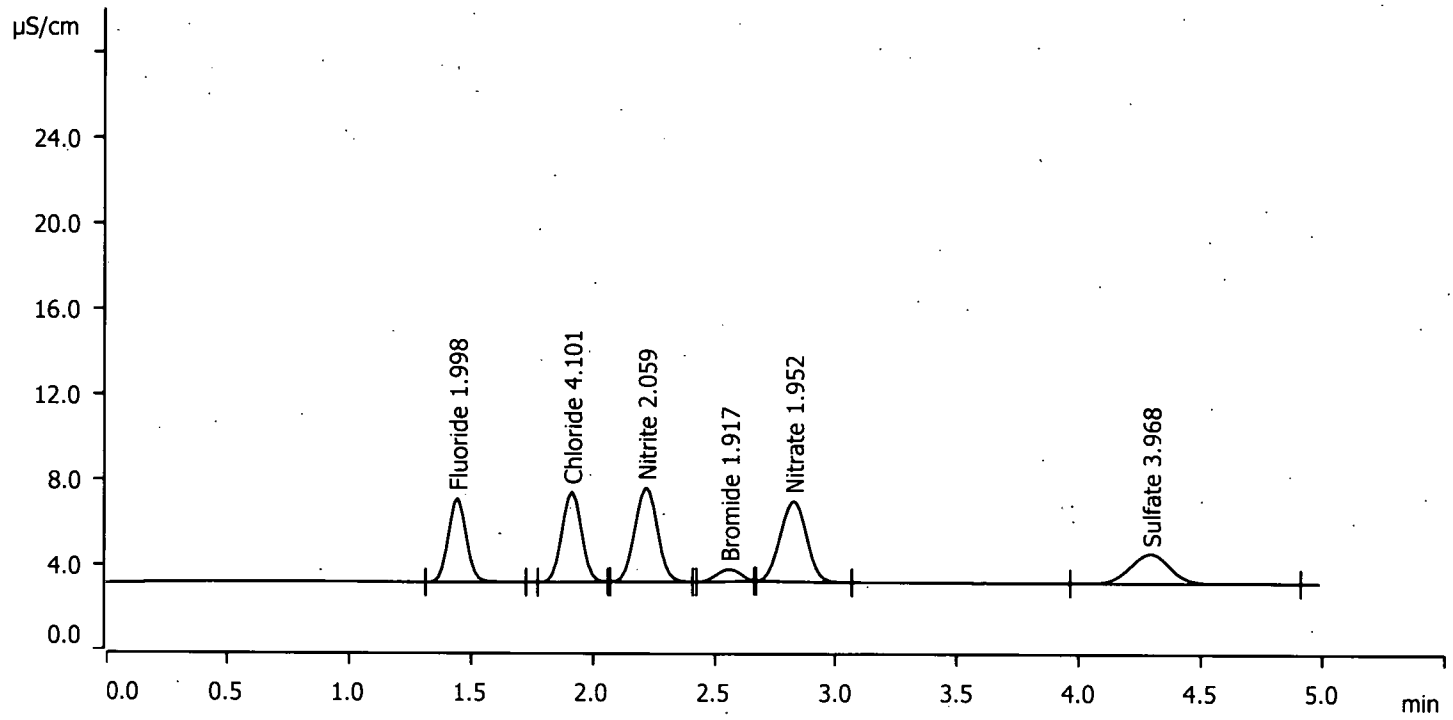
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.540	53.585	Chloride	BB
2	2.57	0.002	0.641	Bromide	BB
3	4.30	0.174	26.687	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-15 09:16:26 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92303
Sample Position	13
Comment 1	300.0/9056A
Comment 2	

Anions



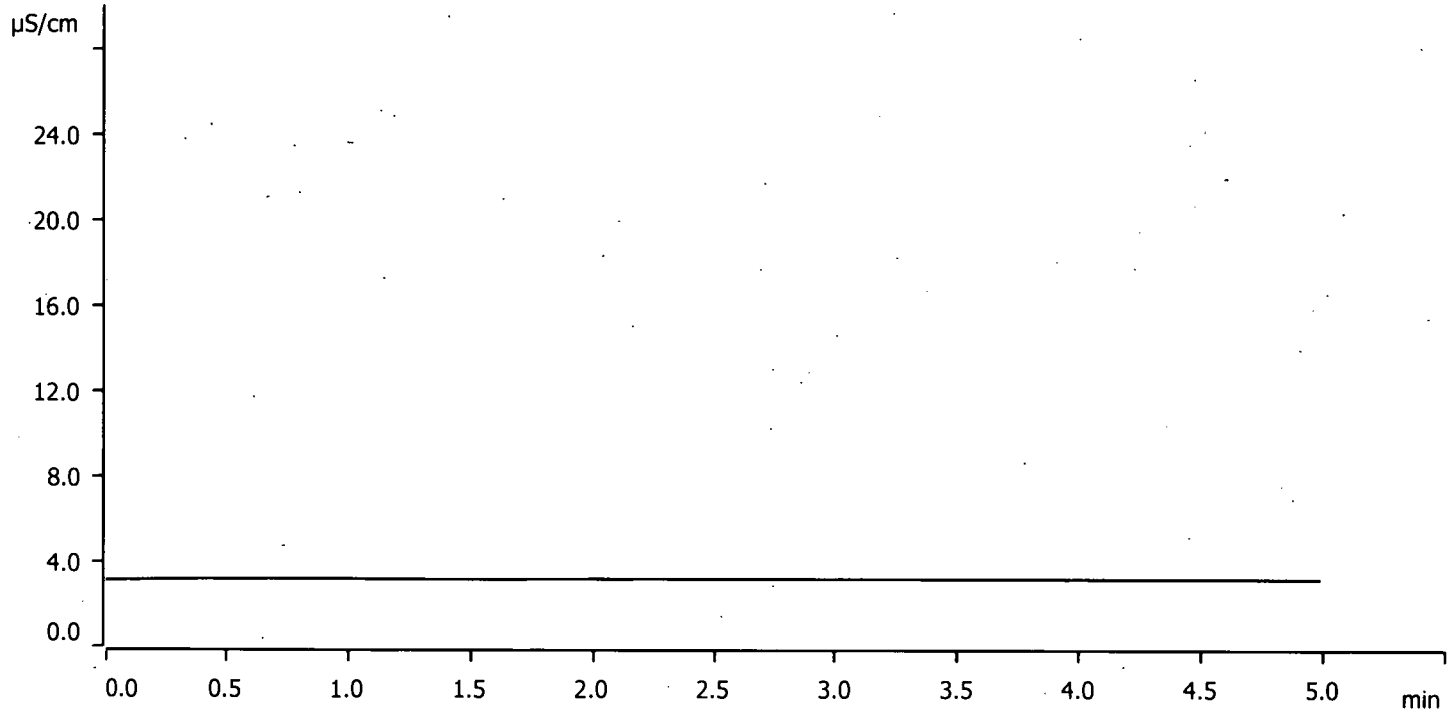
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.335	1.998	Fluoride	BB
2	1.92	0.397	4.101	Chloride	BB
3	2.22	0.476	2.059	Nitrite	BB
4	2.56	0.063	1.917	Bromide	BB
5	2.83	0.473	1.952	Nitrate	BB
6	4.29	0.265	3.968	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-15 09:22:42 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92304
Sample Position	14
Comment 1	300.0/9056A
Comment 2	

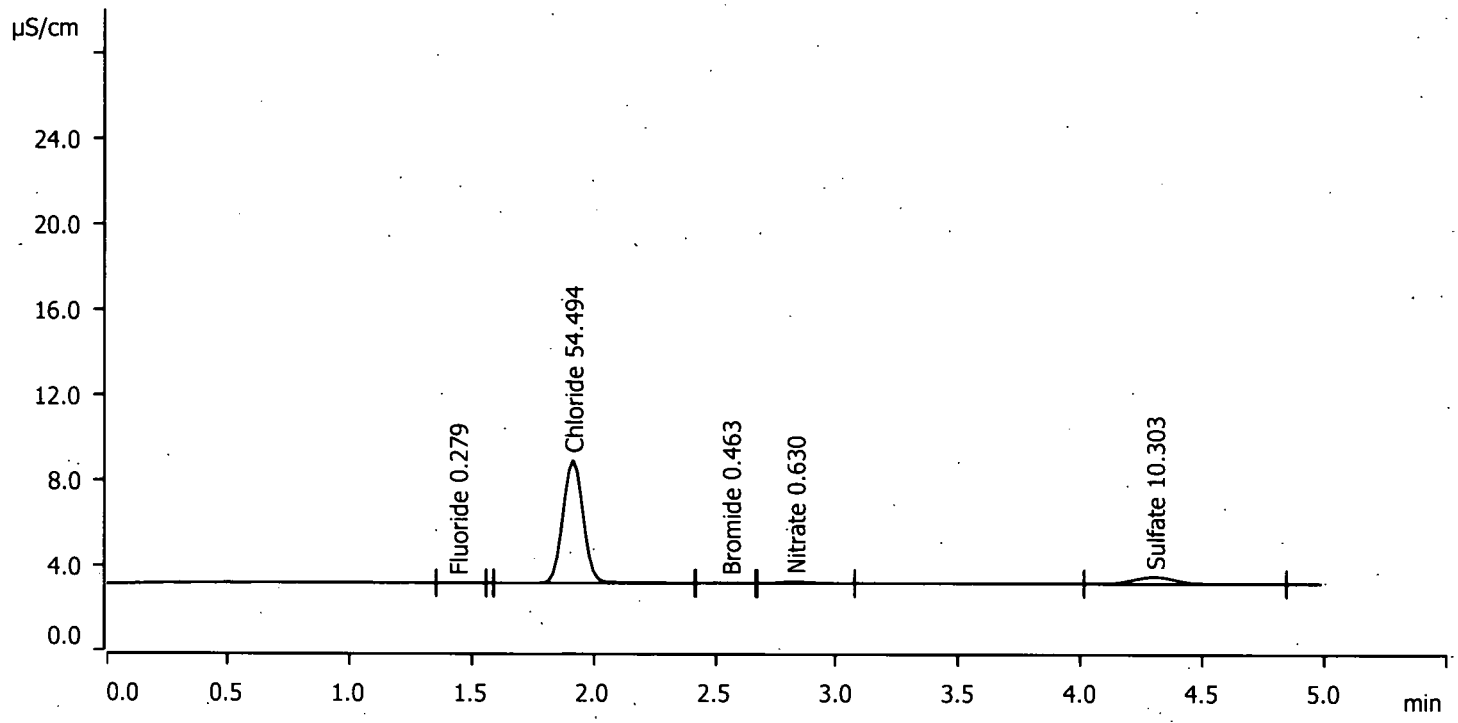
Anions



Sample data

Ident	R2408912-001
Sample type	Sample
Determination start	2024-09-15 09:28:57 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92305
Sample Position	15
Comment 1	300.0 CN
Comment 2	

Anions



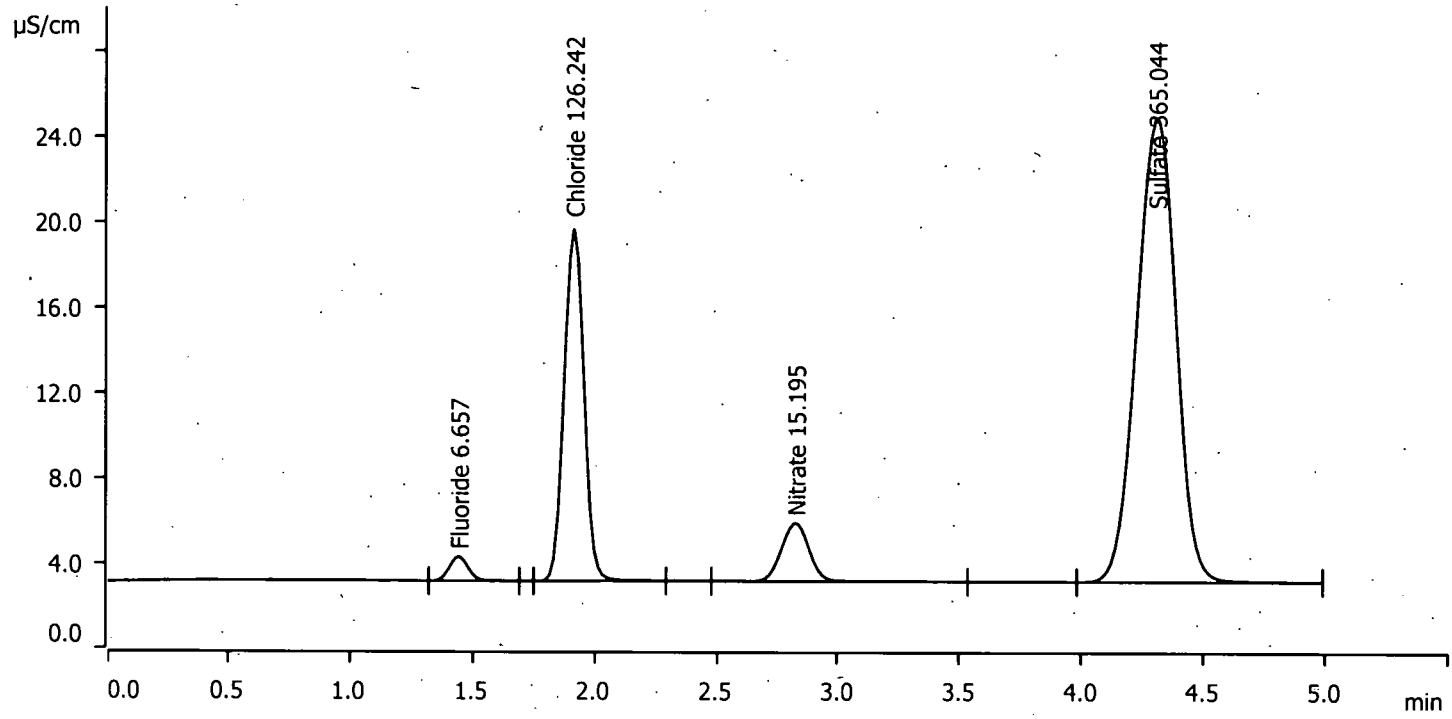
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.001	0.279	Fluoride	BB
2	1.92	0.551	54.494	Chloride	BB
3	2.57	0.001	0.463	Bromide	BB
4	2.83	0.009	0.630	Nitrate	BB
5	4.30	0.065	10.303	Sulfate	BB

Sample data

Ident	R2409005-001
Sample type	Sample
Determination start	2024-09-15 09:35:12 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92306
Sample Position	16
Comment 1	300.0 CN
Comment 2	

Anions



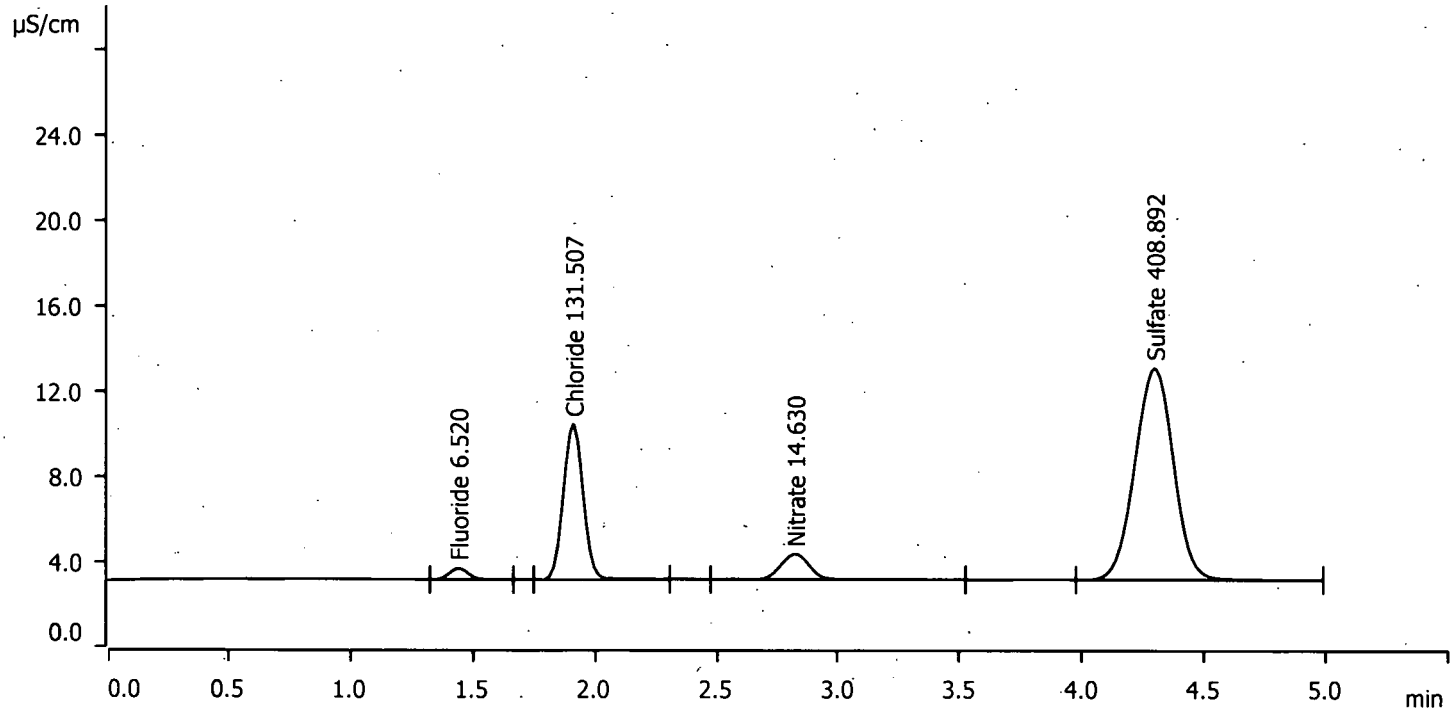
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.101	6.657	Fluoride	BB
2	1.92	1.558	126.242	Chloride	BB
3	2.83	0.357	15.195	Nitrate	BB
4	4.31	4.069	365.044	Sulfate	BB

Sample data

Ident	R2409005-001
Sample type	Sample
Determination start	2024-09-15 09:41:27 UTC-4
Method	10-091224FAST
Dilution	20
Counter	92307
Sample Position	17
Comment 1	300.0 CN
Comment 2	

Anions



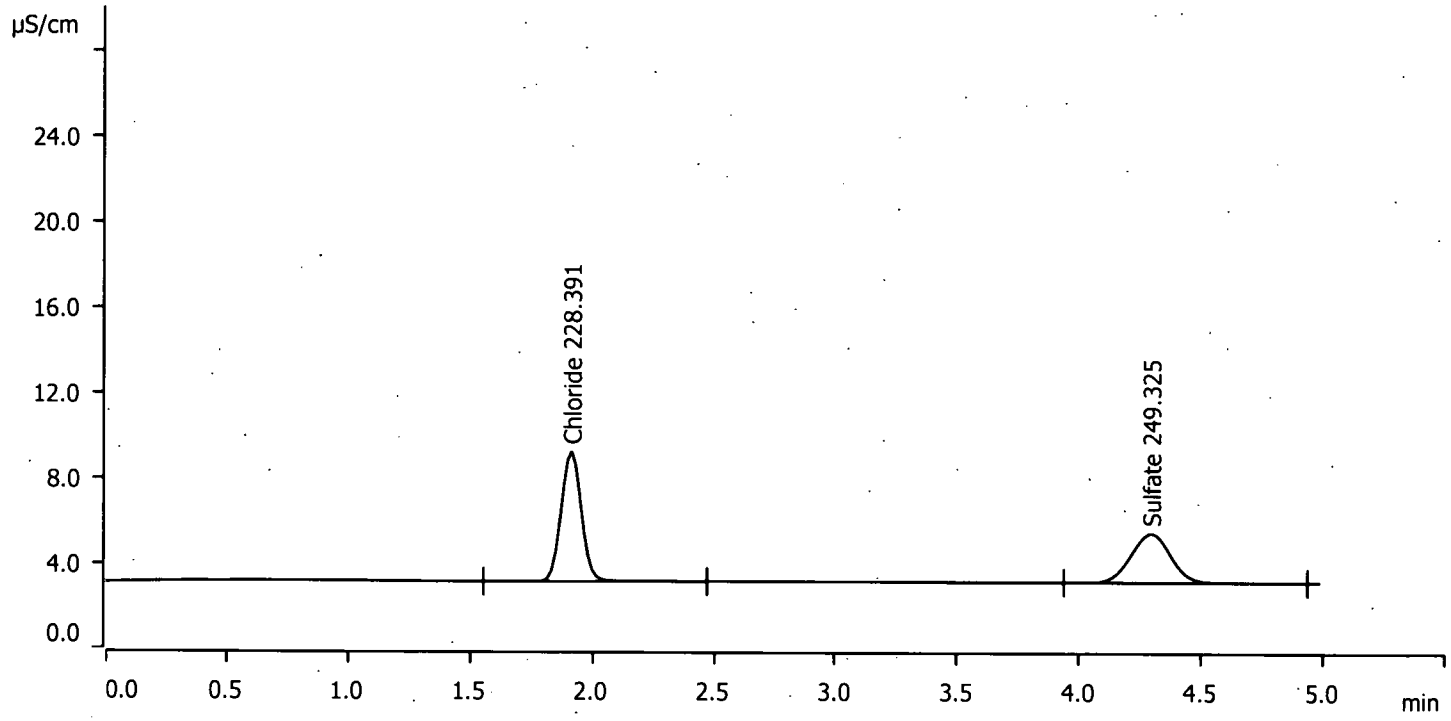
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.047	6.520	Fluoride	BB
2	1.92	0.688	131.507	Chloride	BB
3	2.82	0.160	14.630	Nitrate	BB
4	4.30	1.829	408.892	Sulfate	BB

Sample data

Ident	R2408385-007
Sample type	Sample
Determination start	2024-09-15 09:47:42 UTC-4
Method	10-091224FAST
Dilution	40
Counter	92308
Sample Position	18
Comment 1	300.0 S
Comment 2	

Anions



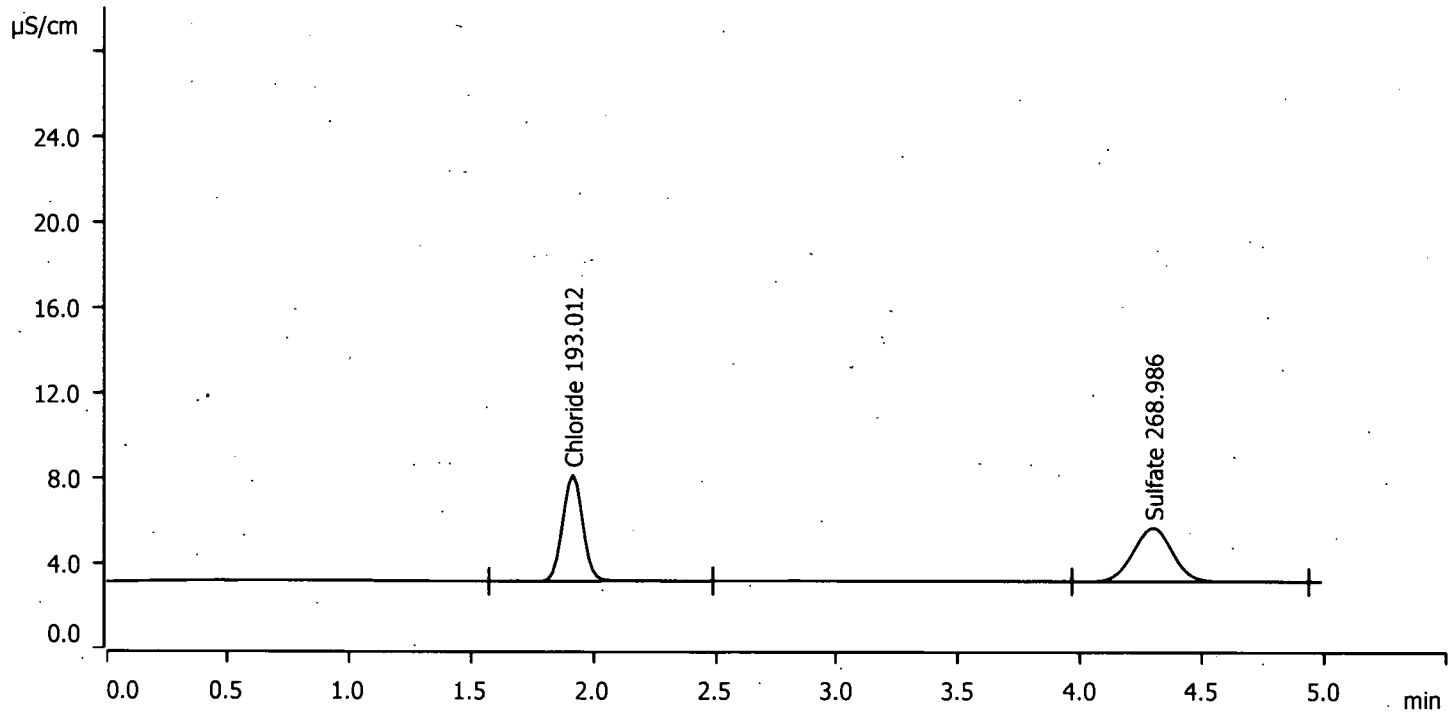
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.582	228.391	Chloride	BB
2	4.29	0.436	249.325	Sulfate	BB

Sample data

Ident	R2408385-008
Sample type	Sample
Determination start	2024-09-15 09:53:56 UTC-4
Method	10-091224FAST
Dilution	40
Counter	92309
Sample Position	19
Comment 1	300.0 S
Comment 2	

Anions



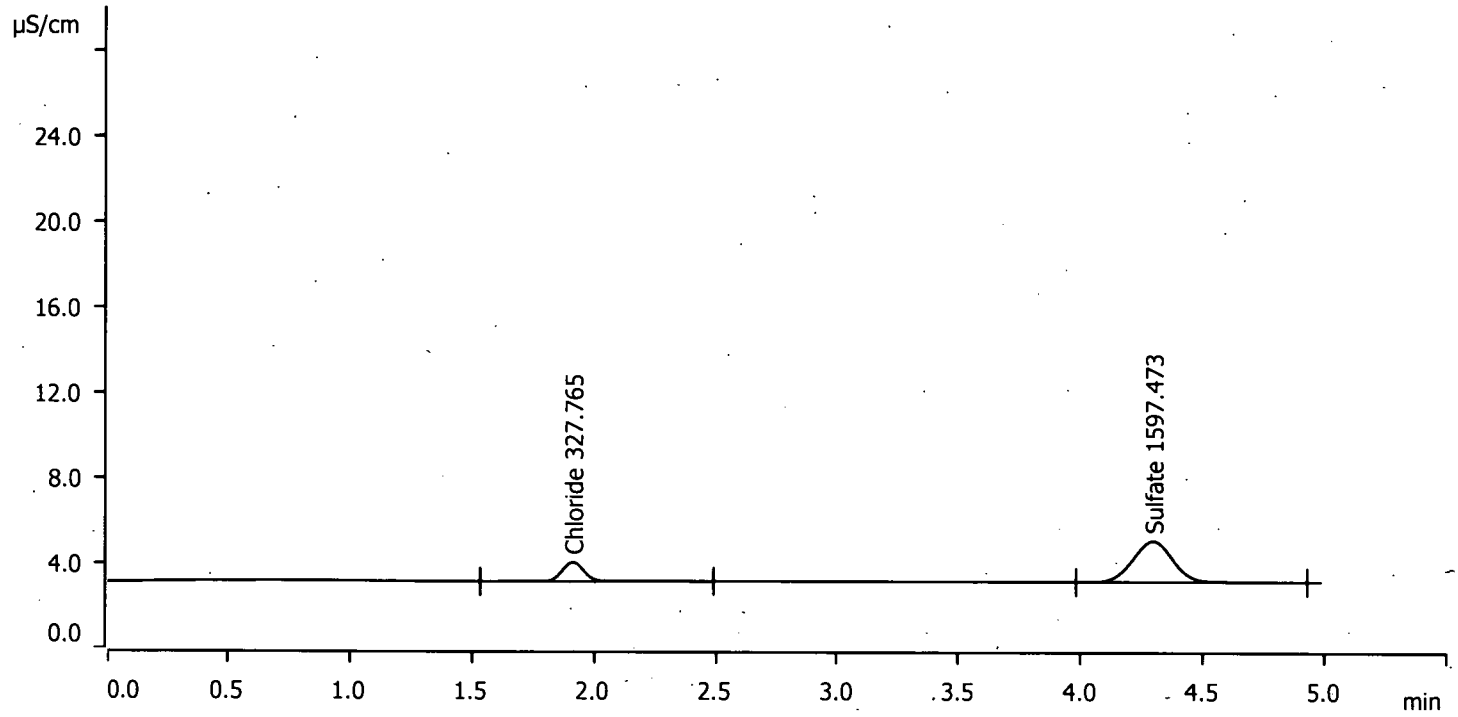
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.479	193.012	Chloride	BB
2	4.28	0.475	268.986	Sulfate	BB

Sample data

Ident	R2408385-009
Sample type	Sample
Determination start	2024-09-15 10:00:11 UTC-4
Method	10-091224FAST
Dilution	300
Counter	92310
Sample Position	20
Comment 1	300.0 S
Comment 2	

Anions



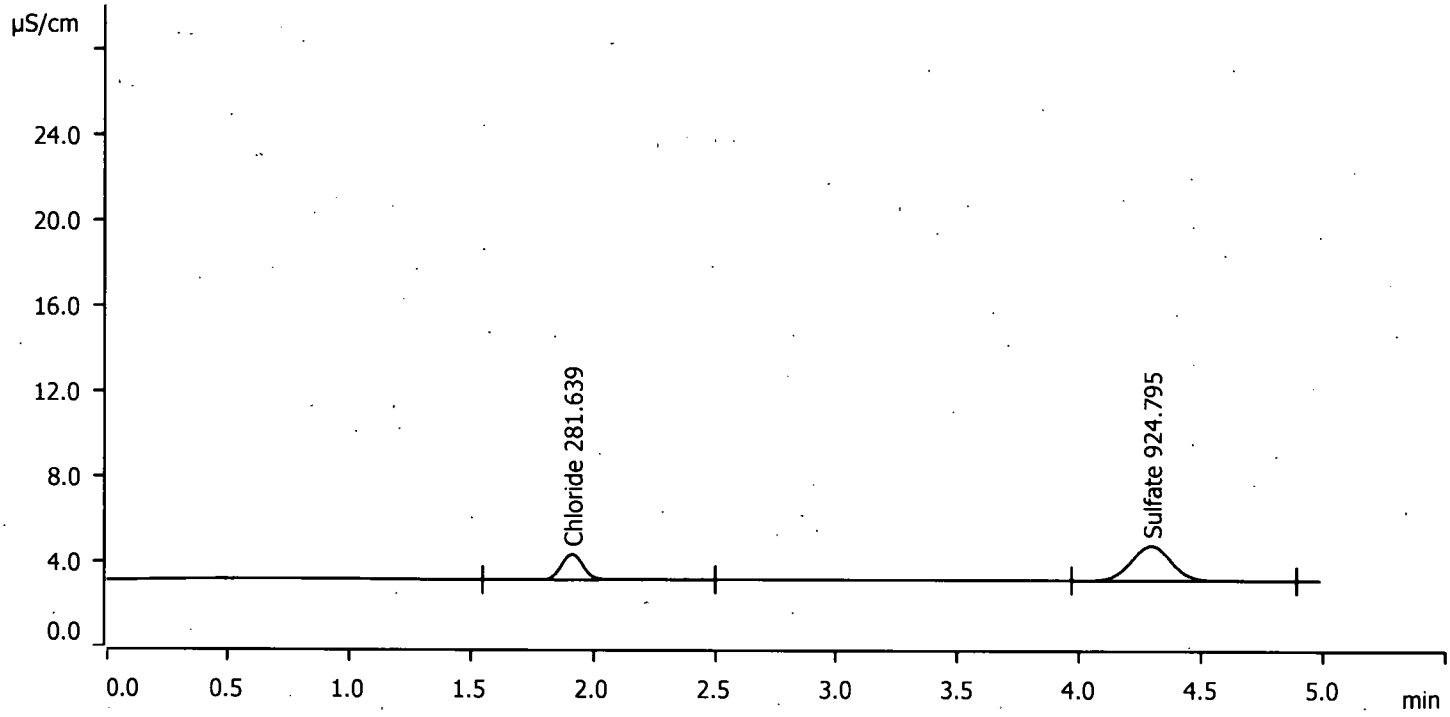
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.094	327.765	Chloride	BB
2	4.30	0.366	1597.473	Sulfate	BB

Sample data

Ident	R2408385-010
Sample type	Sample
Determination start	2024-09-15 10:06:26 UTC-4
Method	10-091224FAST
Dilution	200
Counter	92311
Sample Position	21
Comment 1	300.0 S
Comment 2	

Anions



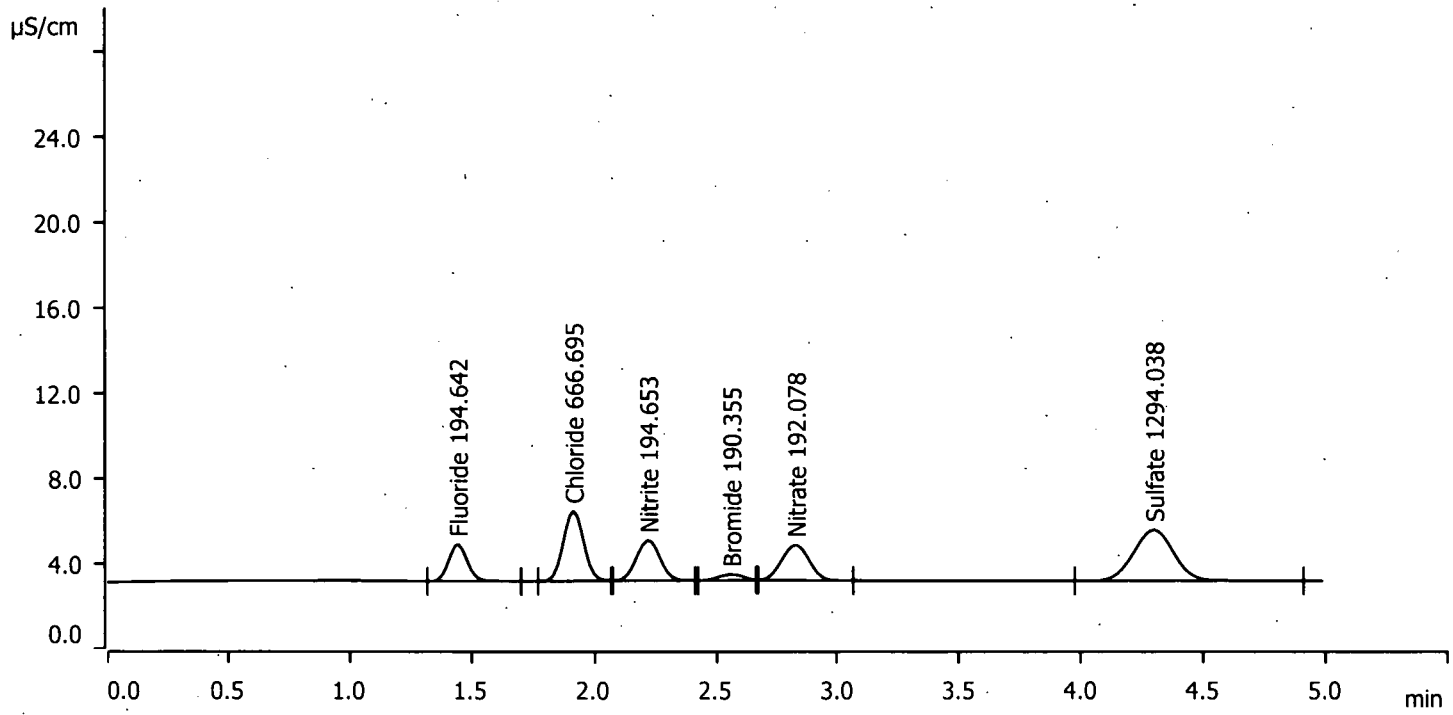
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.124	281.639	Chloride	BB
2	4.30	0.313	924.795	Sulfate	BB

Sample data

Ident	R2408385-010 MS
Sample type	Sample
Determination start	2024-09-15 10:12:40 UTC-4
Method	10-091224FAST
Dilution	200
Counter	92312
Sample Position	22
Comment 1	300.0 S
Comment 2	

Anions



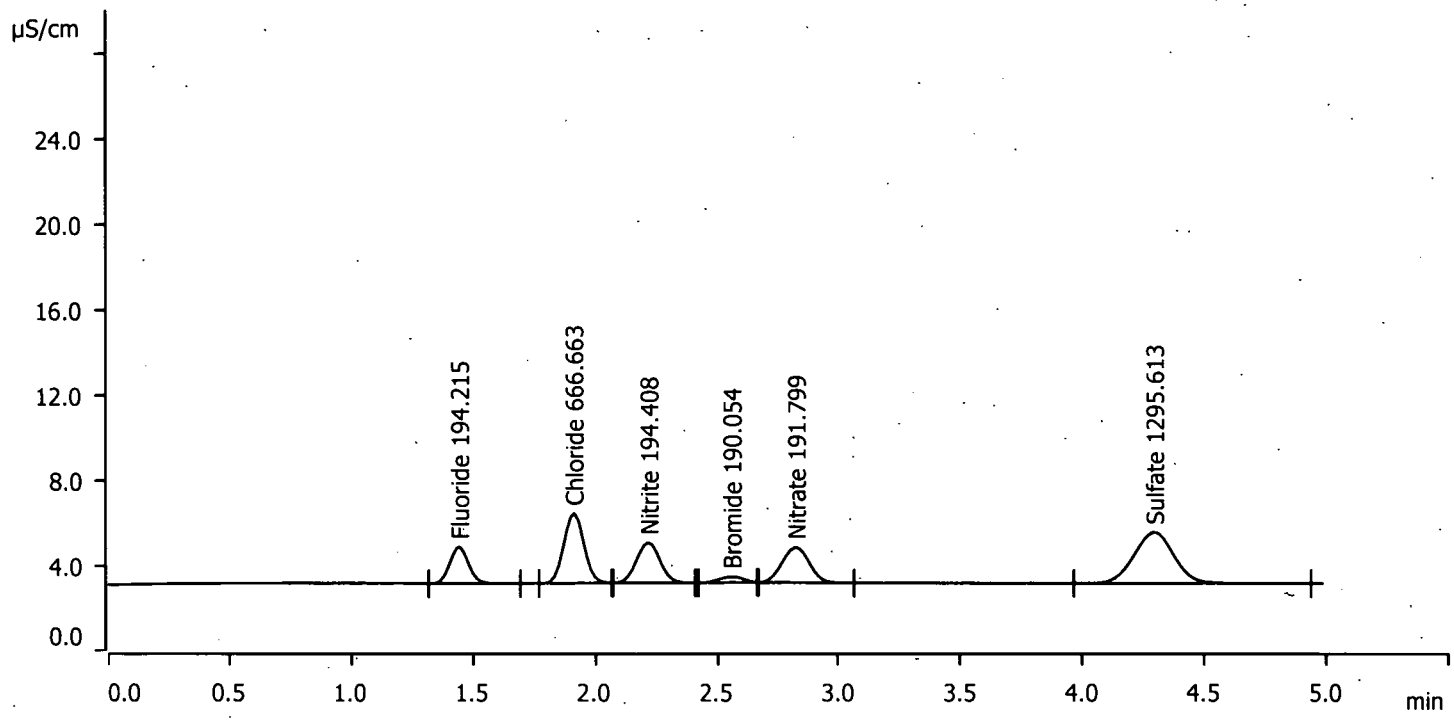
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.152	194.642	Fluoride	BB
2	1.92	0.315	666.695	Chloride	BB
3	2.22	0.210	194.653	Nitrite	BB
4	2.57	0.031	190.355	Bromide	BB
5	2.83	0.215	192.078	Nitrate	BB
6	4.30	0.455	1294.038	Sulfate	BB

Sample data

Ident	R2408385-010 MSD
Sample type	Sample
Determination start	2024-09-15 10:18:56 UTC-4
Method	10-091224FAST
Dilution	200
Counter	92313
Sample Position	23
Comment 1	300.0 S
Comment 2	

Anions



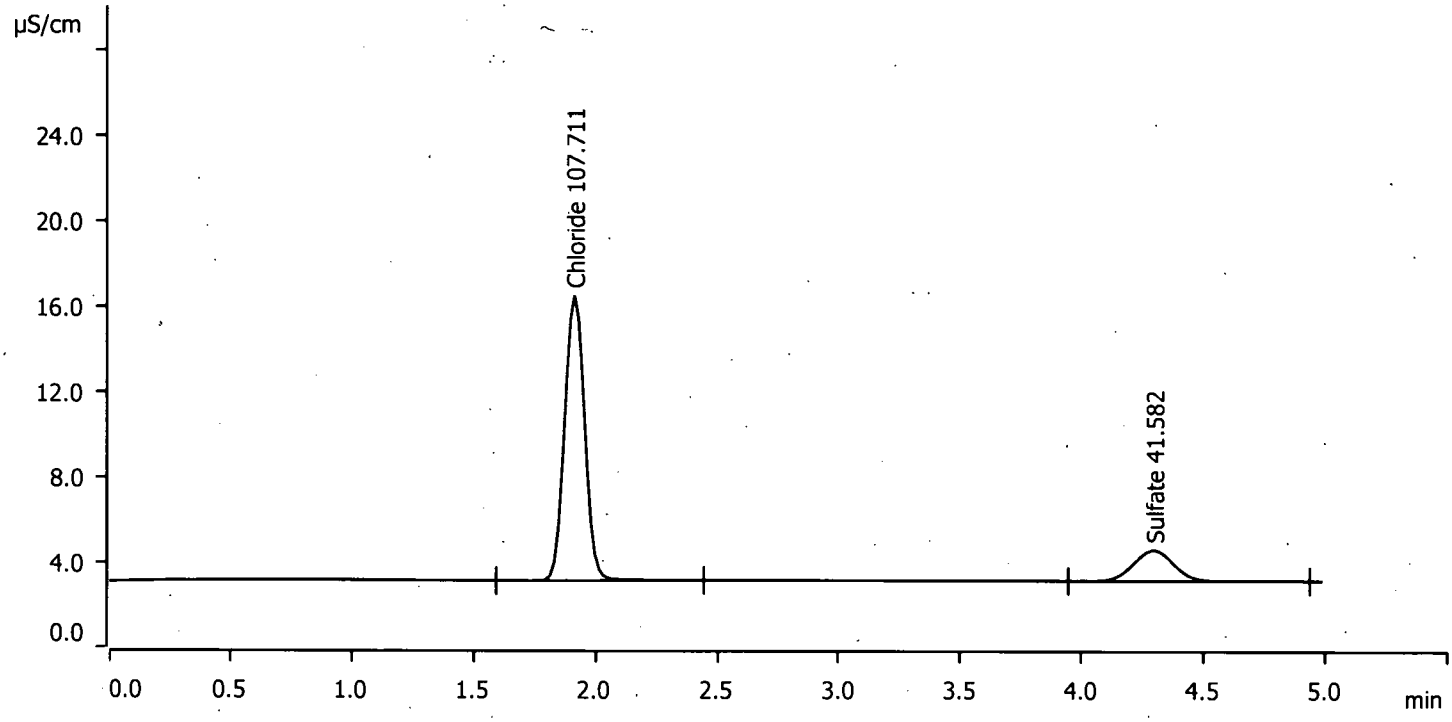
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.152	194.215	Fluoride	BB
2	1.92	0.315	666.663	Chloride	BB
3	2.22	0.210	194.408	Nitrite	BB
4	2.56	0.030	190.054	Bromide	BB
5	2.82	0.215	191.799	Nitrate	BB
6	4.29	0.455	1295.613	Sulfate	BB

Sample data

Ident	R2408385-011
Sample type	Sample
Determination start	2024-09-15 10:25:11 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92314
Sample Position	24
Comment 1	300.0 S
Comment 2	

Anions



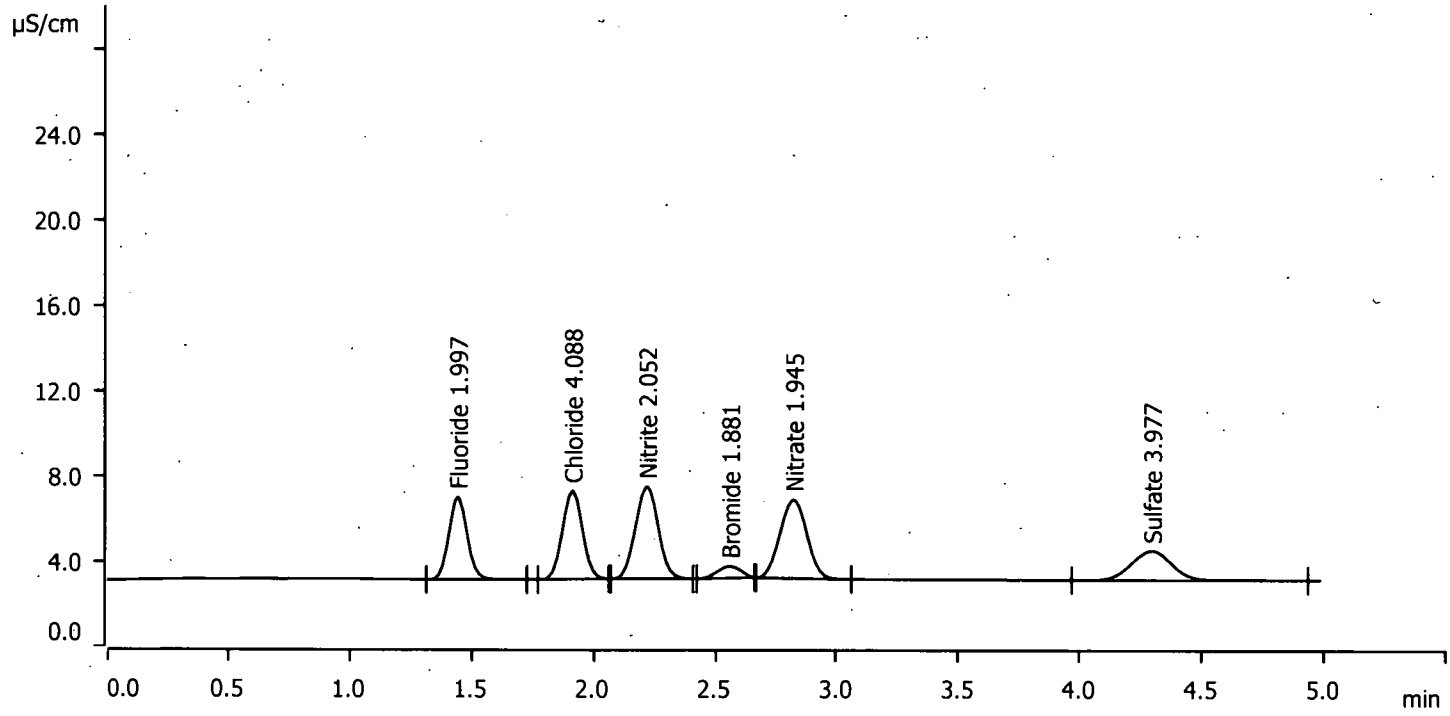
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	1.268	107.711	Chloride	BB
2	4.30	0.279	41.582	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-15 10:32:07 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92315
Sample Position	25
Comment 1	300.0/9056A
Comment 2	

Anions



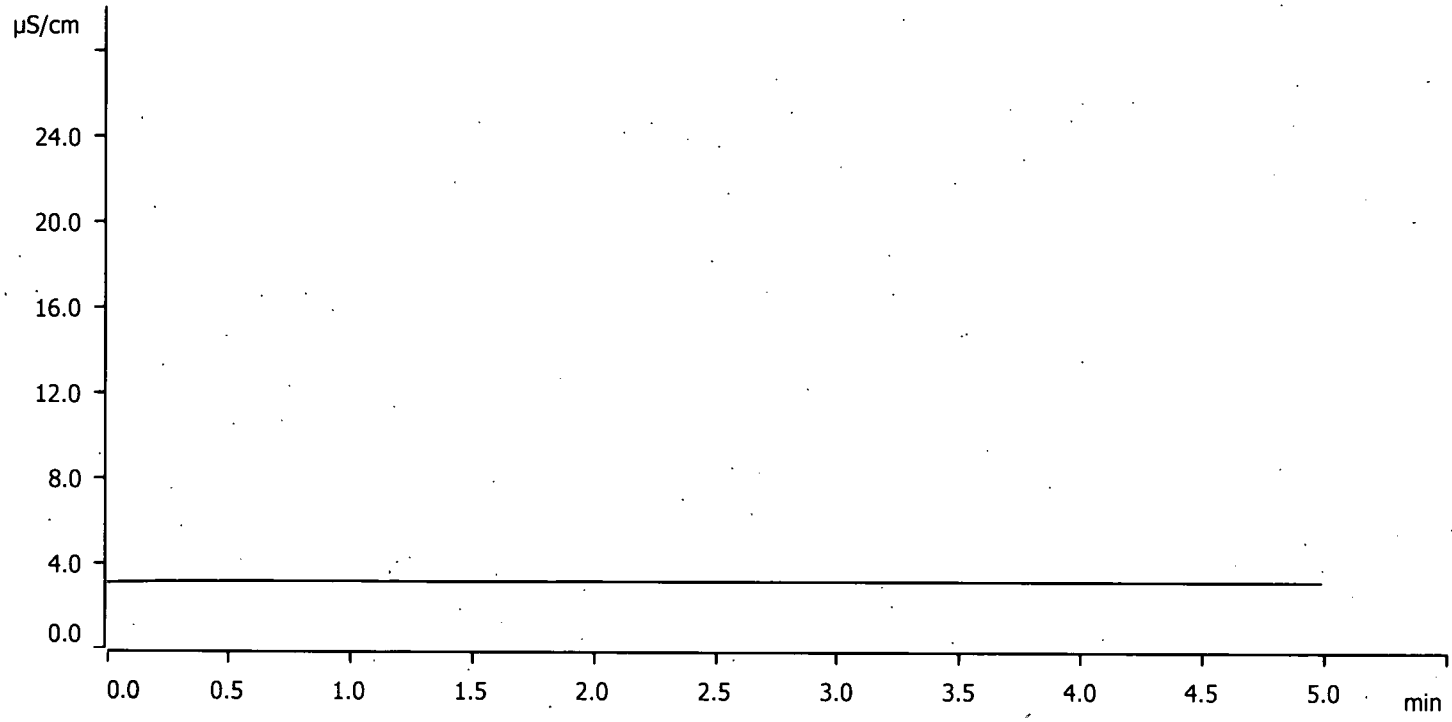
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.335	1.997	Fluoride	BB
2	1.92	0.396	4.088	Chloride	BB
3	2.22	0.474	2.052	Nitrite	BB
4	2.56	0.062	1.881	Bromide	BB
5	2.83	0.472	1.945	Nitrate	BB
6	4.30	0.266	3.977	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-15 10:38:39 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92316
Sample Position	26
Comment 1	300.0/9056A
Comment 2	

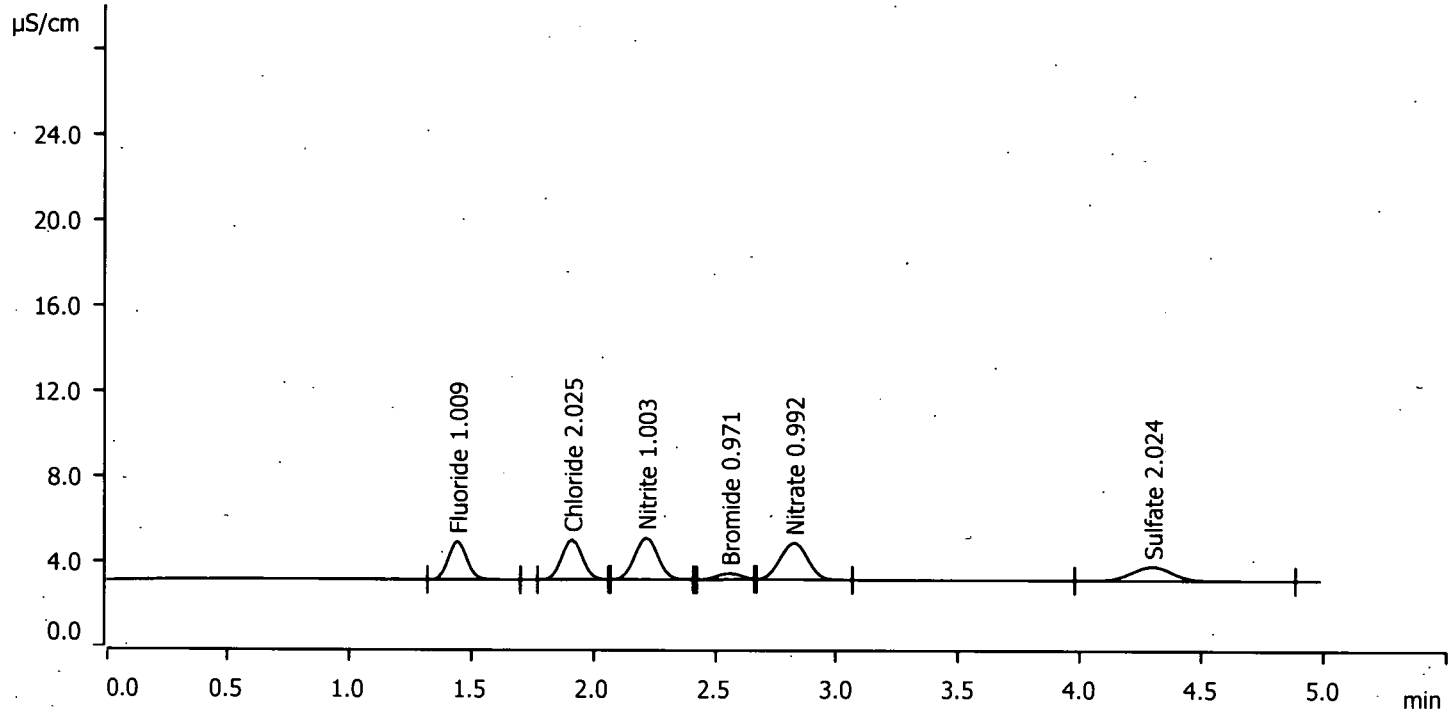
Anions



Sample data

Ident	LCS
Sample type	Check standard 2
Determination start	2024-09-15 10:44:54 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92317
Sample Position	27
Comment 1	300.0/9056A
Comment 2	

Anions



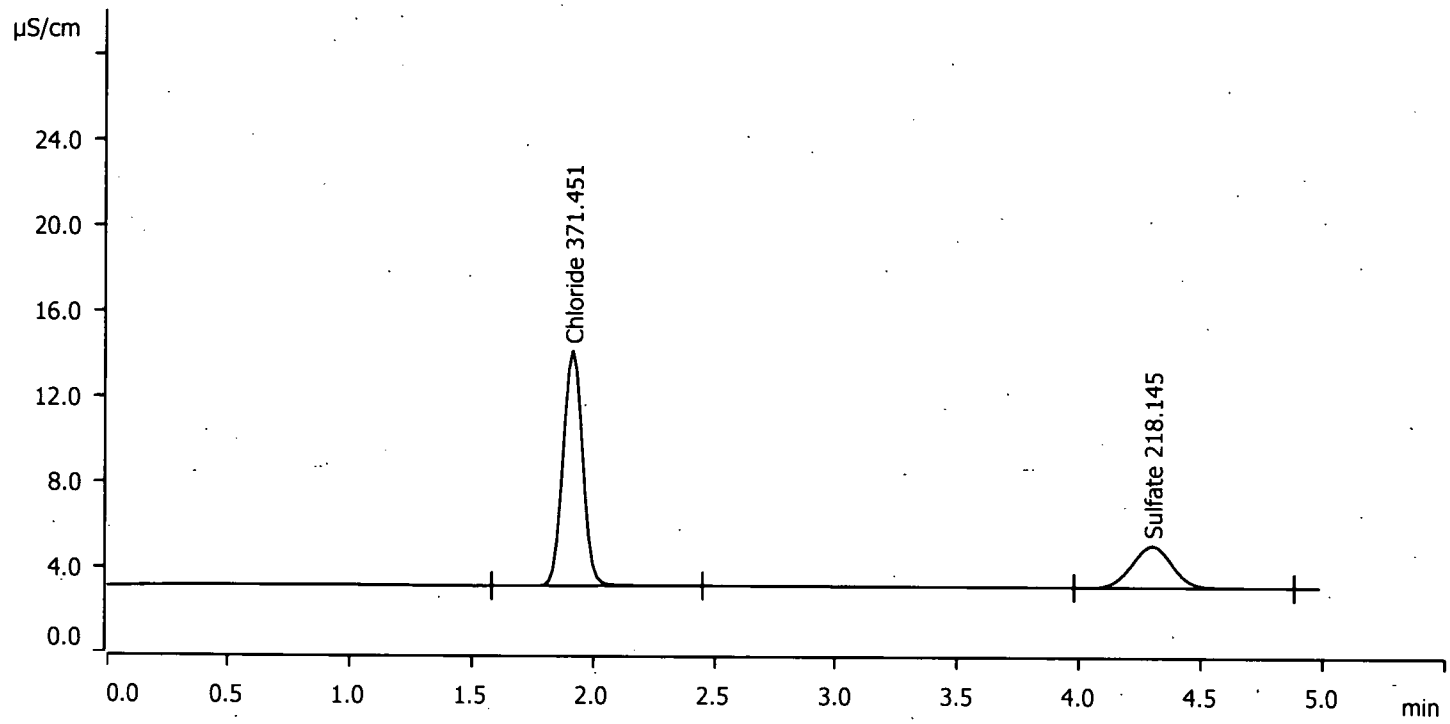
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.158	1.009	Fluoride	BB
2	1.92	0.182	2.025	Chloride	BB
3	2.22	0.217	1.003	Nitrite	BB
4	2.56	0.031	0.971	Bromide	BB
5	2.83	0.223	0.992	Nitrate	BB
6	4.30	0.130	2.024	Sulfate	BB

Sample data

Ident	R2408385-012
Sample type	Sample
Determination start	2024-09-15 10:51:11 UTC-4
Method	10-091224FAST
Dilution	40
Counter	92318
Sample Position	28
Comment 1	300.0 S
Comment 2	

Anions



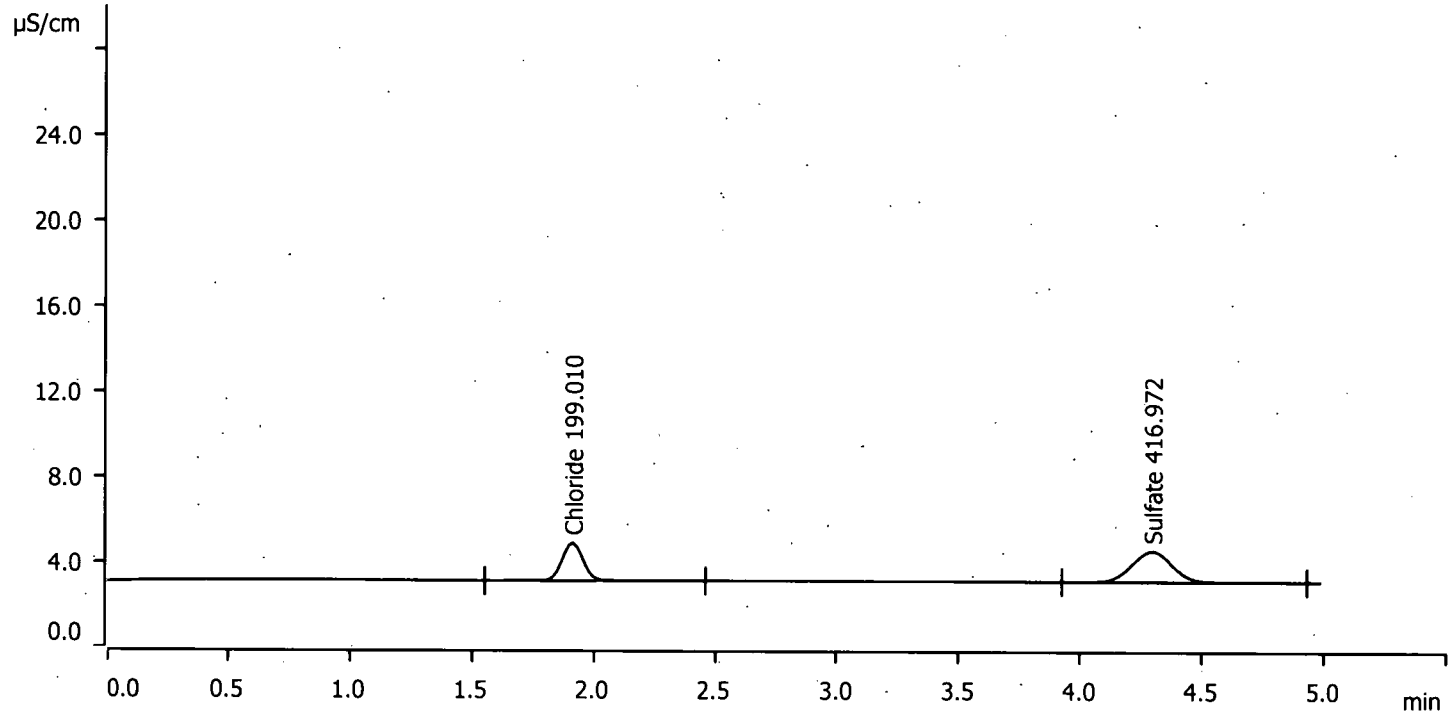
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	1.050	371.451	Chloride	BB
2	4.30	0.376	218.145	Sulfate	BB

Sample data

Ident	R2408385-013
Sample type	Sample
Determination start	2024-09-15 10:57:26 UTC-4
Method	10-091224FAST
Dilution	100
Counter	92319
Sample Position	29
Comment 1	300.0 S
Comment 2	

Anions



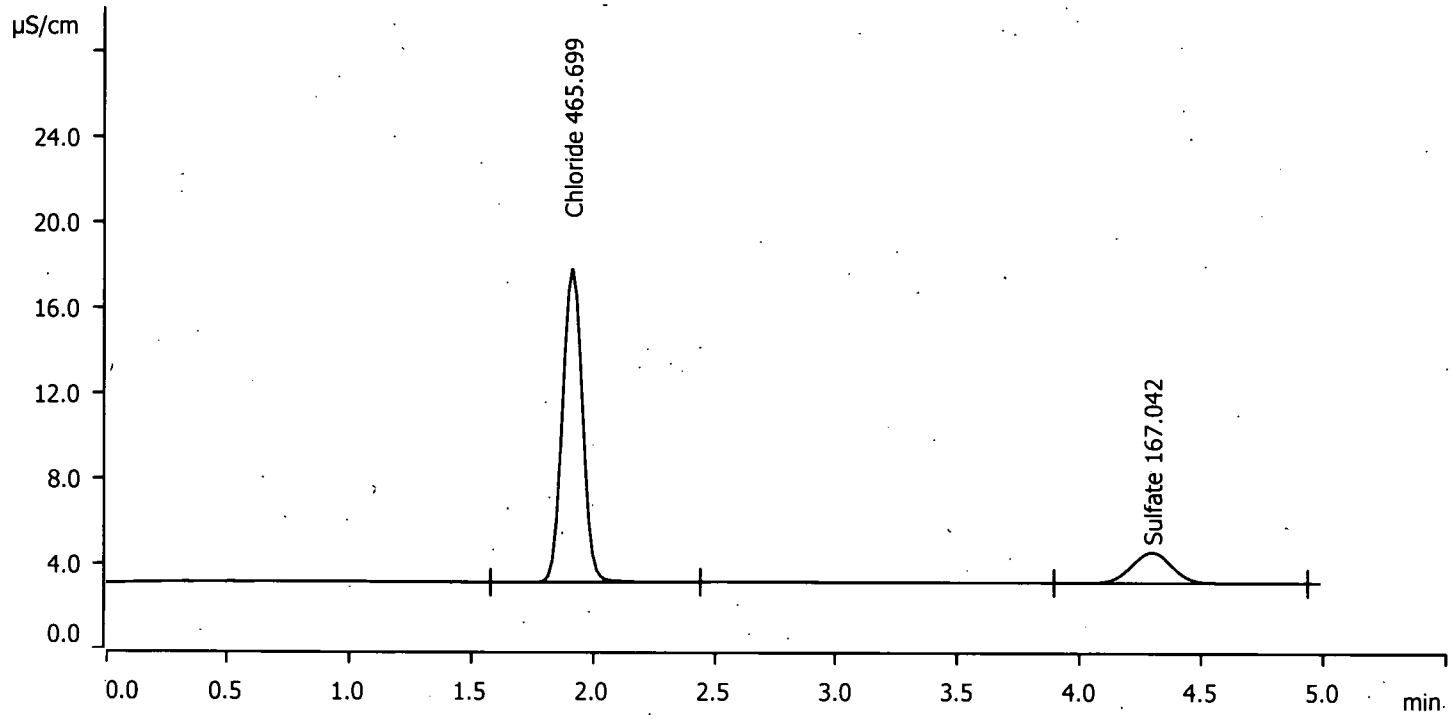
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.179	199.010	Chloride	BB
2	4.30	0.280	416.972	Sulfate	BB

Sample data

Ident	R2408385-014
Sample type	Sample
Determination start	2024-09-15 11:03:41 UTC-4
Method	10-091224FAST
Dilution	40
Counter	92320
Sample Position	30
Comment 1	300.0 S
Comment 2	

Anions



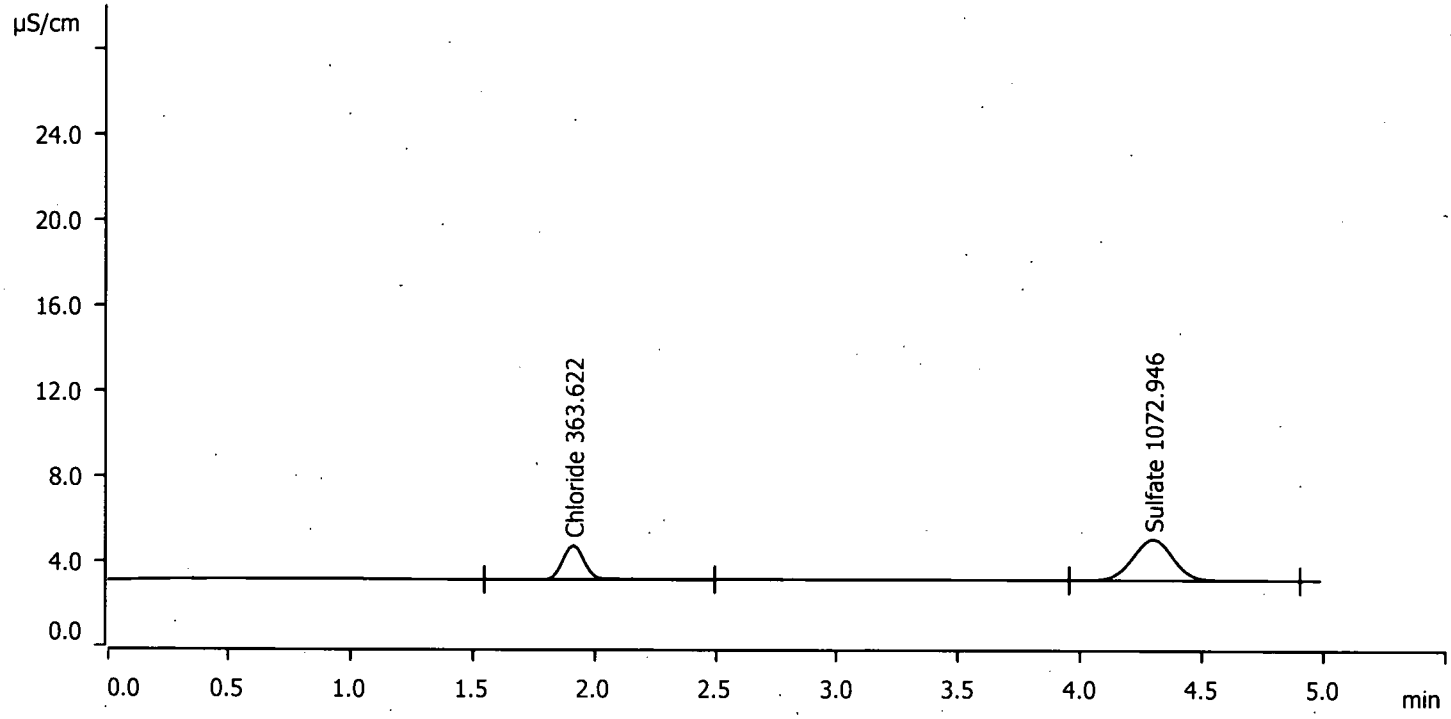
Anions

Peak number	Retention time	Area	Concentration	Component name	Type
	min	(µS/cm) x min	ppm		
1	1.92	1.401	465.699	Chloride	BB
2	4.30	0.280	167.042	Sulfate	BB

Sample data

Ident	R2408385-015
Sample type	Sample
Determination start	2024-09-15 11:09:56 UTC-4
Method	10-091224FAST
Dilution	200
Counter	92321
Sample Position	31
Comment 1	300.0 S
Comment 2	

Anions



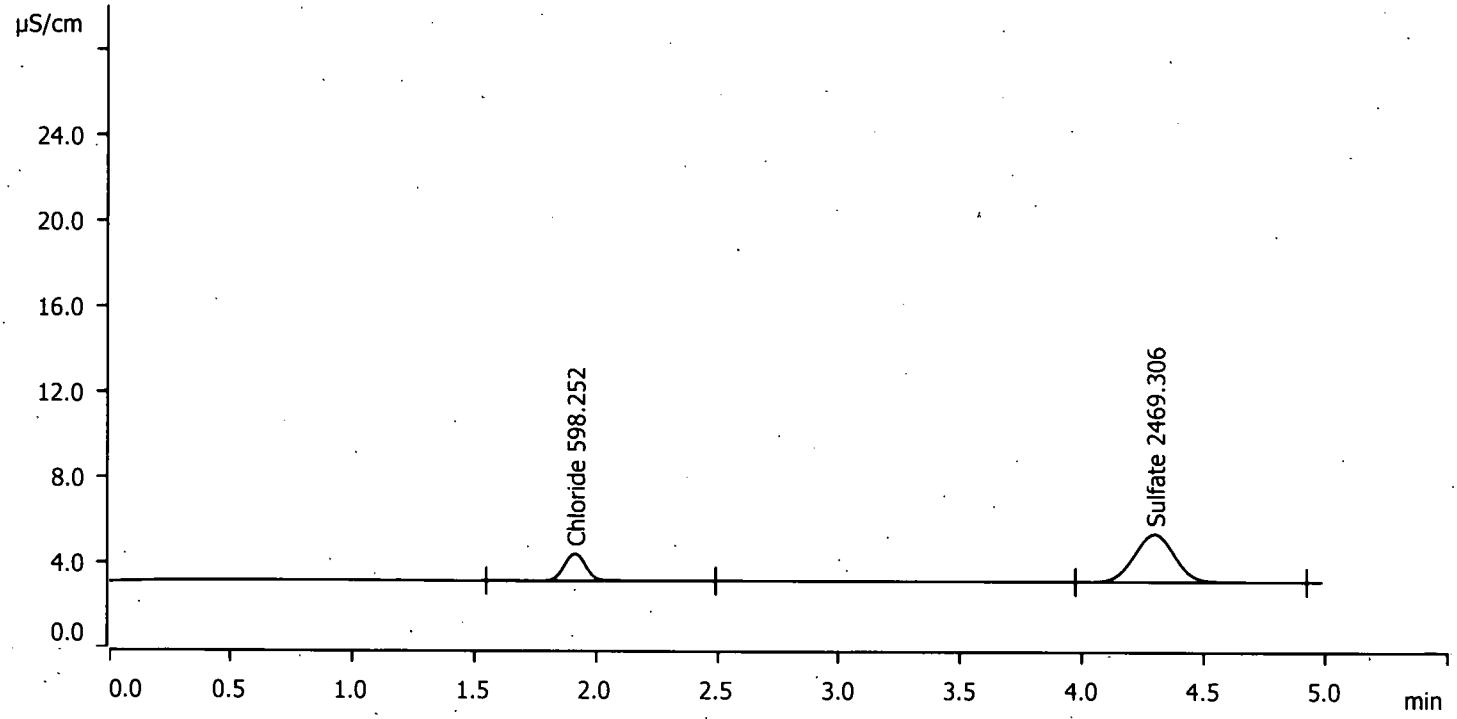
Anions

Peak number	Retention time	Area	Concentration	Component name	Type
	min	(µS/cm) x min	ppm		
1	1.92	0.162	363.622	Chloride	BB
2	4.30	0.369	1072.946	Sulfate	BB

Sample data

Ident	R2408385-016
Sample type	Sample
Determination start	2024-09-15 11:16:11 UTC-4
Method	10-091224FAST
Dilution	400
Counter	92322
Sample Position	32
Comment 1	300.0 S
Comment 2	

Anions



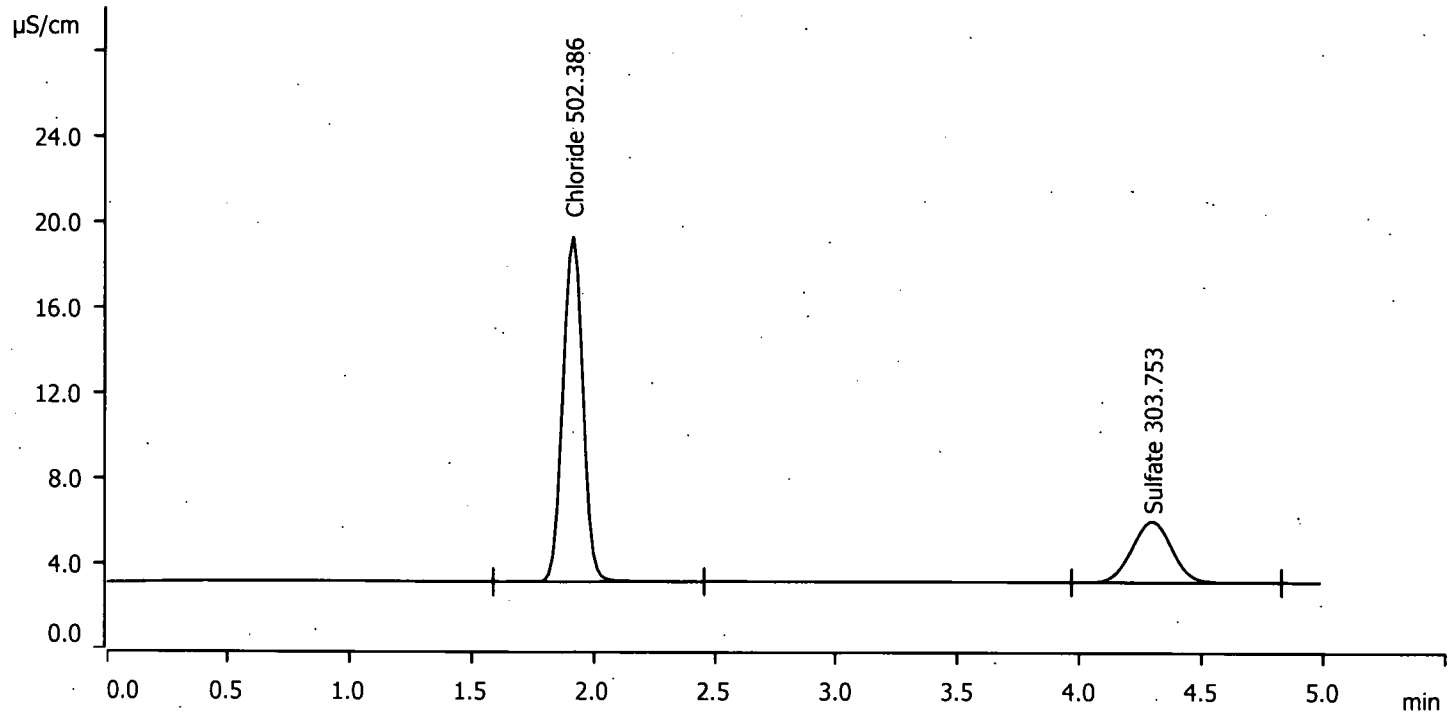
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.132	598.252	Chloride	BB
2	4.30	0.431	2469.306	Sulfate	BB

Sample data

Ident	R2408385-017
Sample type	Sample
Determination start	2024-09-15 11:22:26 UTC-4
Method	10-091224FAST
Dilution	40
Counter	92323
Sample Position	33
Comment 1	300.0 S
Comment 2	

Anions



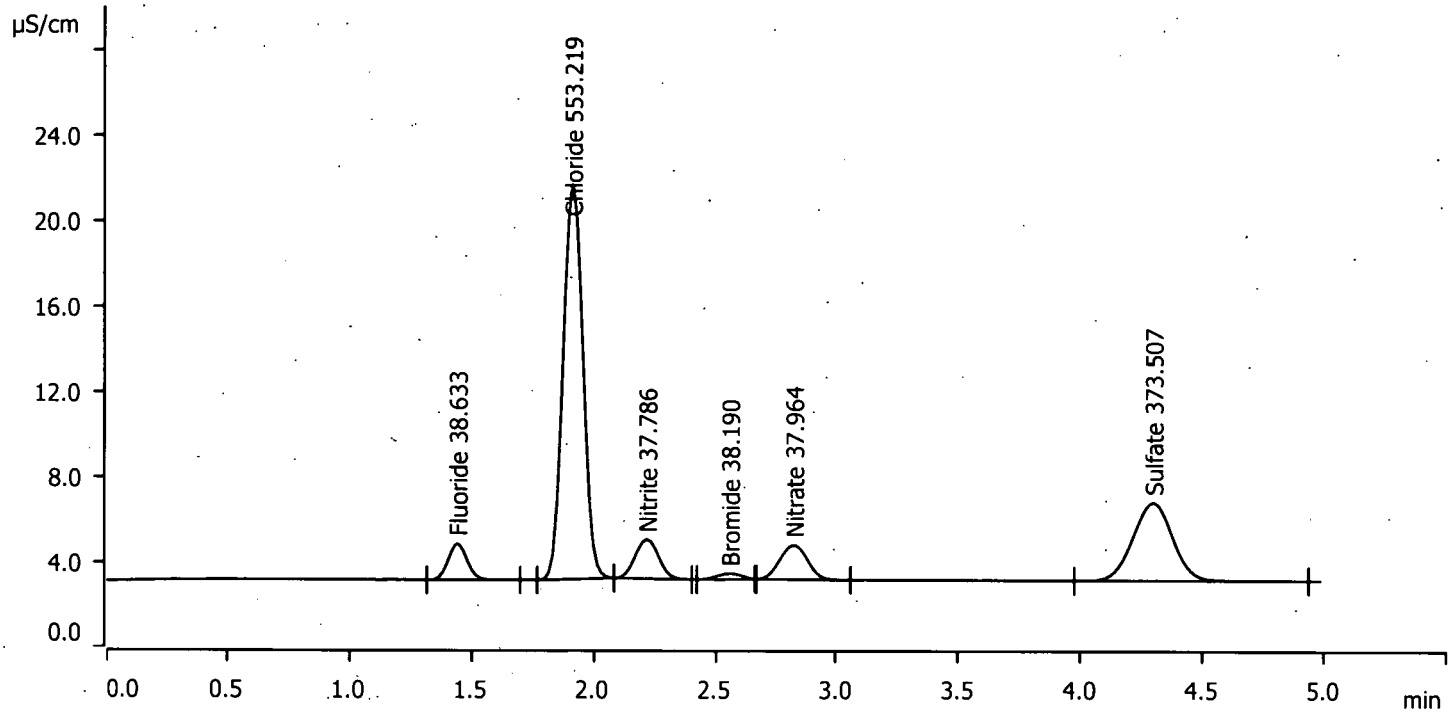
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	1.547	502.386	Chloride	BB
2	4.30	0.546	303.753	Sulfate	BB

Sample data

Ident	R2408385-017 MS
Sample type	Sample
Determination start	2024-09-15 11:28:41 UTC-4
Method	10-091224FAST
Dilution	40
Counter	92324
Sample Position	34
Comment 1	300.0 S
Comment 2	

Anions



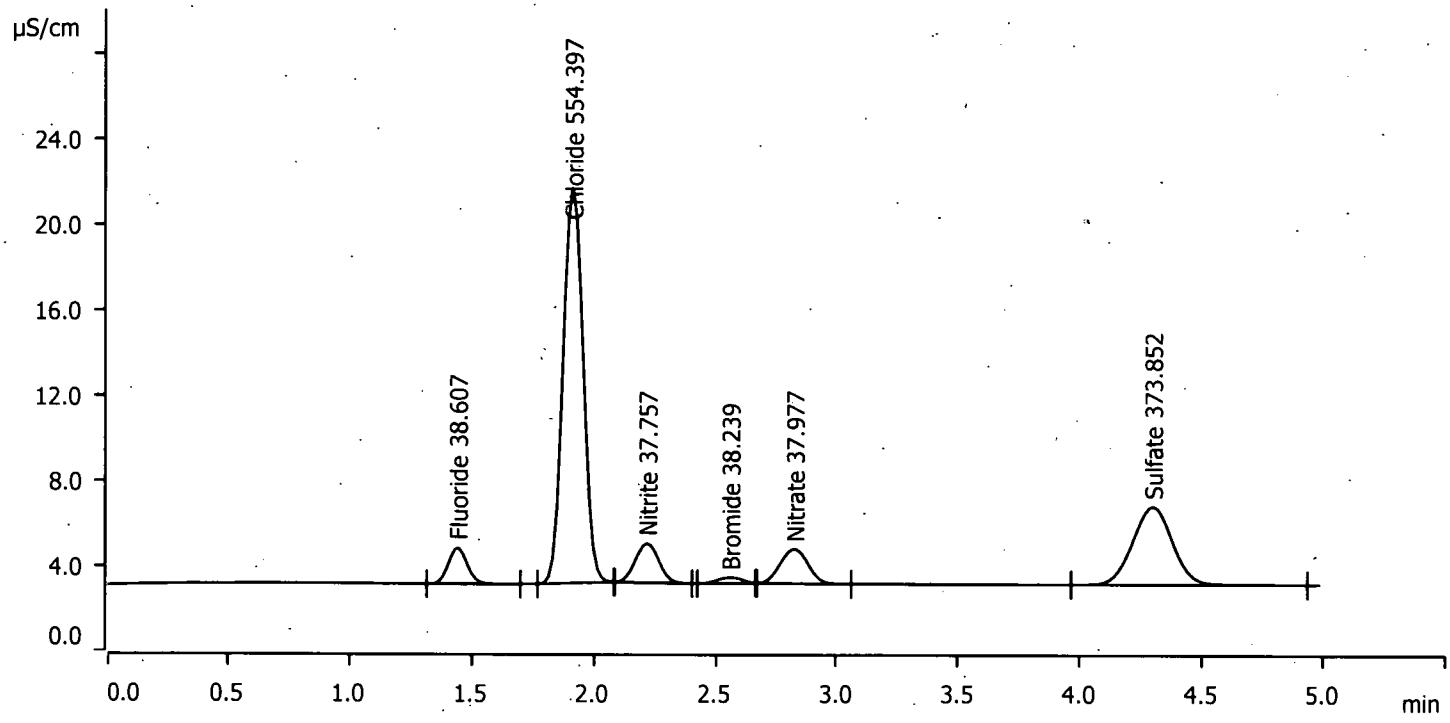
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.151	38.633	Fluoride	BB
2	1.92	1.758	553.219	Chloride	BB
3	2.22	0.203	37.786	Nitrite	BB
4	2.56	0.031	38.190	Bromide	BB
5	2.82	0.213	37.964	Nitrate	BB
6	4.30	0.693	373.507	Sulfate	BB

Sample data

Ident	R2408385-017 MSD
Sample type	Sample
Determination start	2024-09-15 11:34:57 UTC-4
Method	10-091224FAST
Dilution	40
Counter	92325
Sample Position	35
Comment 1	300.0 S
Comment 2	

Anions



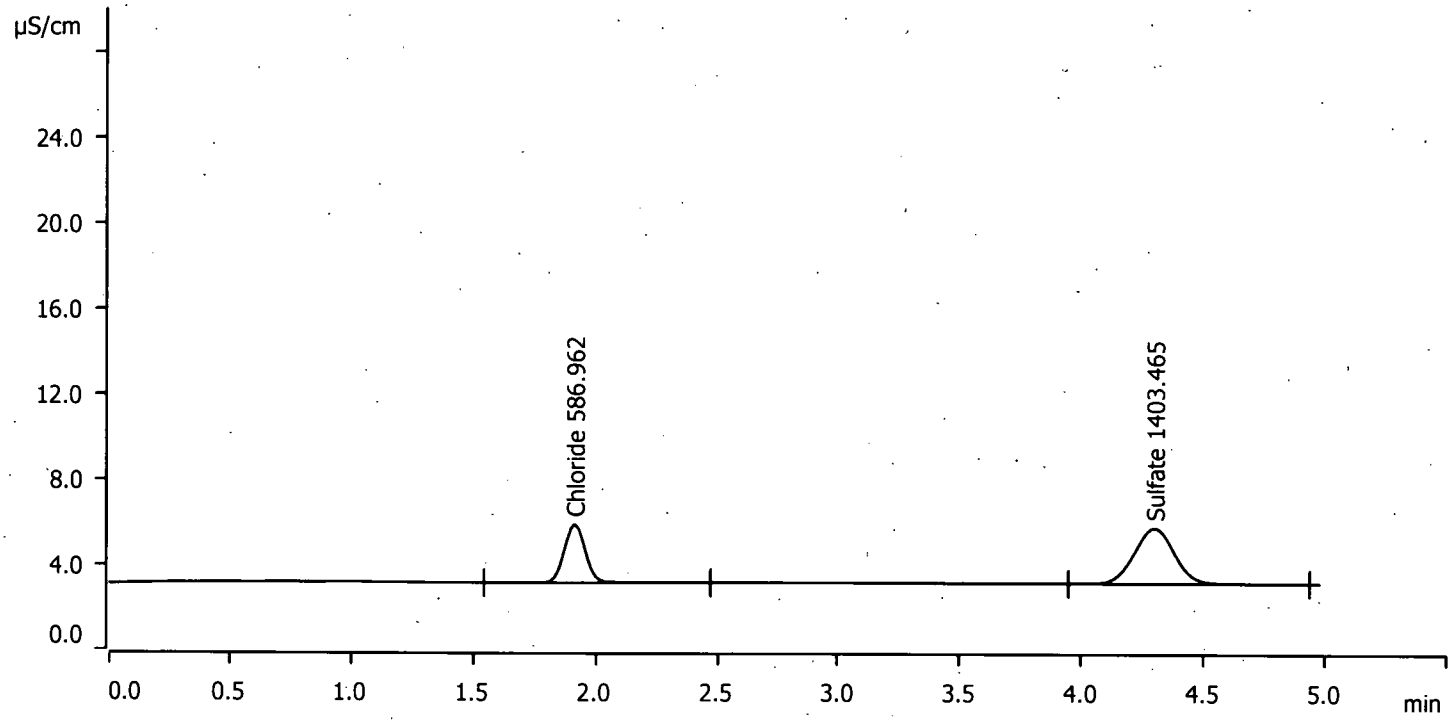
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.151	38.607	Fluoride	BB
2	1.92	1.763	554.397	Chloride	BB
3	2.22	0.203	37.757	Nitrite	BB
4	2.56	0.031	38.239	Bromide	BB
5	2.83	0.213	37.977	Nitrate	BB
6	4.30	0.694	373.852	Sulfate	BB

Sample data

Ident	R2408385-018
Sample type	Sample
Determination start	2024-09-15 11:41:13 UTC-4
Method	10-091224FAST
Dilution	200
Counter	92326
Sample Position	36
Comment 1	300.0 S
Comment 2	

Anions



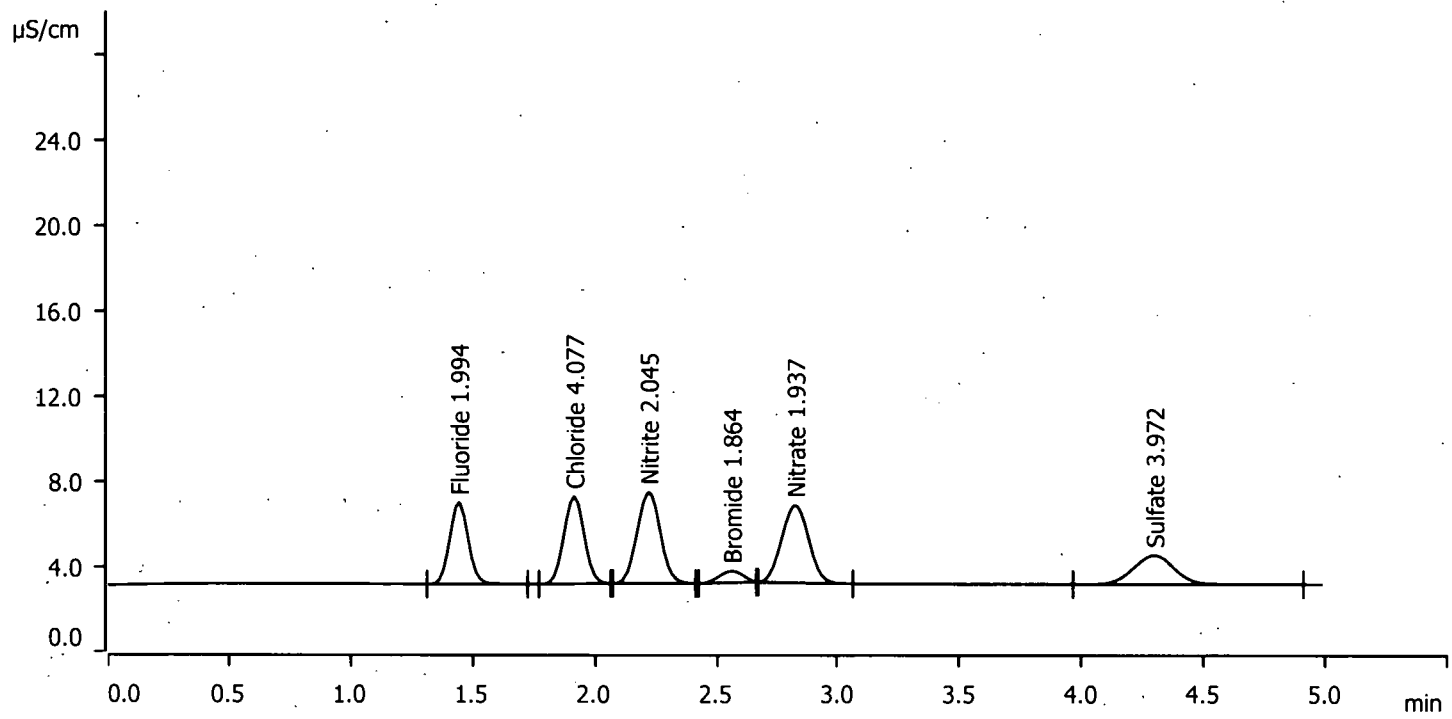
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.273	586.962	Chloride	BB
2	4.30	0.499	1403.465	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-15 11:47:28 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92327
Sample Position	37
Comment 1	300.0/9056A
Comment 2	

Anions



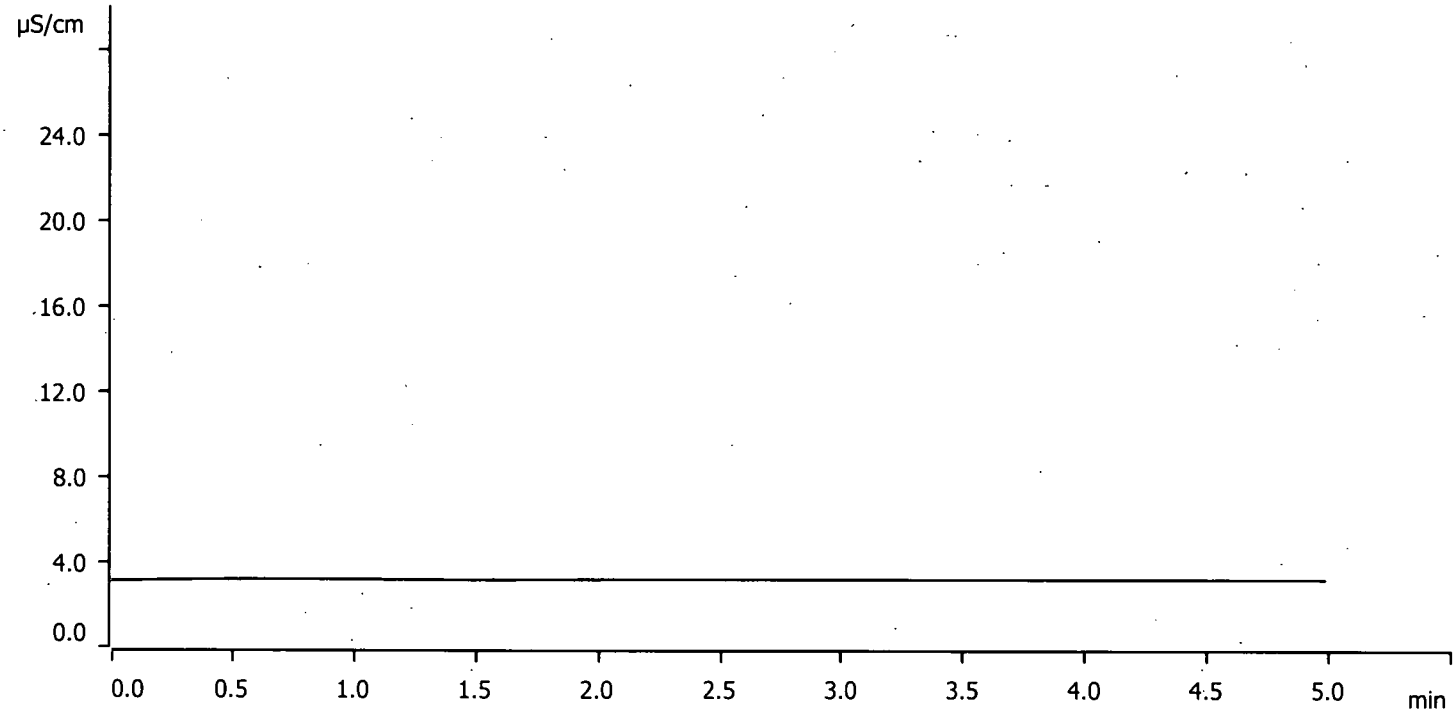
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.334	1.994	Fluoride	BB
2	1.92	0.395	4.077	Chloride	BB
3	2.22	0.472	2.045	Nitrite	BB
4	2.57	0.062	1.864	Bromide	BB
5	2.83	0.469	1.937	Nitrate	BB
6	4.30	0.266	3.972	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-15 11:53:44 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92328
Sample Position	38
Comment 1	300.0/9056A
Comment 2	

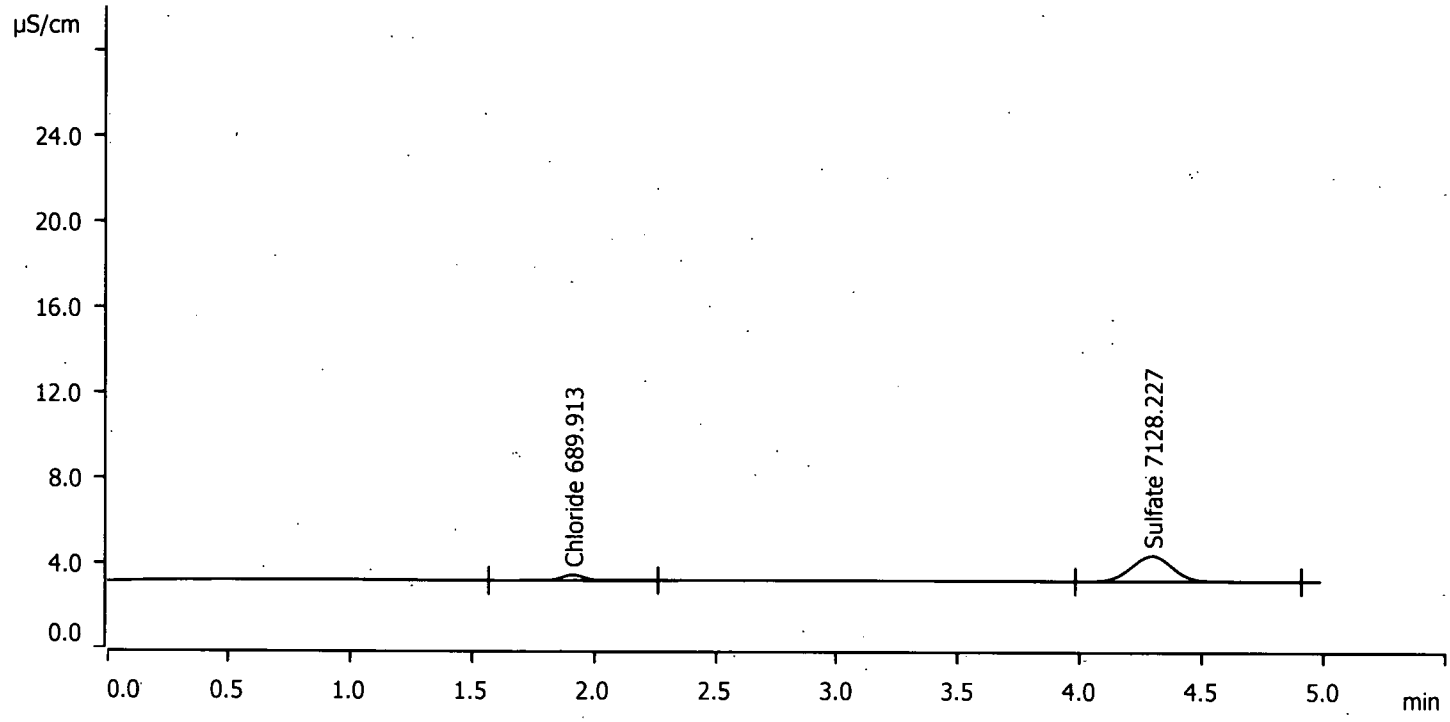
Anions



Sample data

Ident	R2408385-019
Sample type	Sample
Determination start	2024-09-15 11:59:58 UTC-4
Method	10-091224FAST
Dilution	2000
Counter	92329
Sample Position	39
Comment 1	300.0 S
Comment 2	

Anions



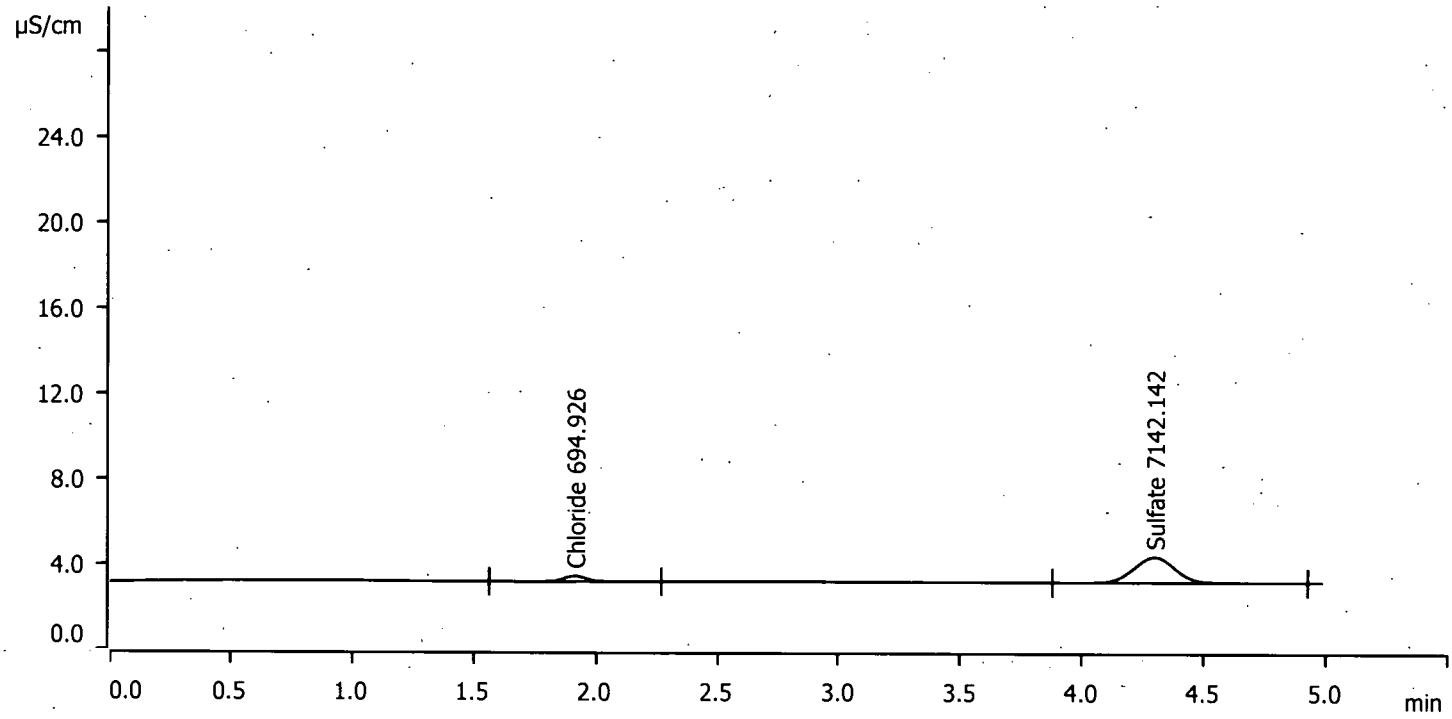
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.028	689.913	Chloride	BB
2	4.30	0.236	7128.227	Sulfate	BB

Sample data

Ident	R2408385-020
Sample type	Sample
Determination start	2024-09-15 12:06:13 UTC-4
Method	10-091224FAST
Dilution	2000
Counter	92330
Sample Position	40
Comment 1	300.0 S
Comment 2	

Anions



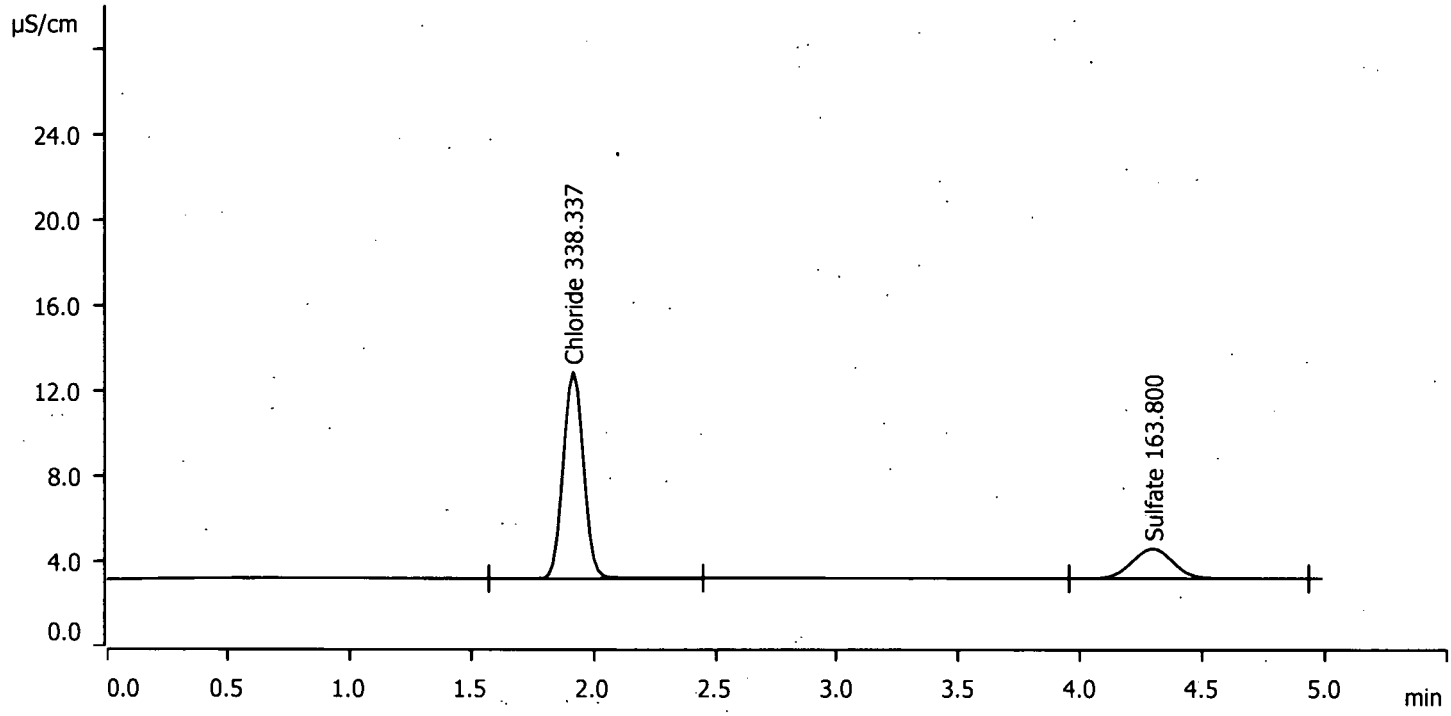
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.028	694.926	Chloride	BB
2	4.30	0.237	7142.142	Sulfate	BB

Sample data

Ident	R2408385-021
Sample type	Sample
Determination start	2024-09-15 12:12:28 UTC-4
Method	10-091224FAST
Dilution	40
Counter	92331
Sample Position	41
Comment 1	300.0 S
Comment 2	

Anions



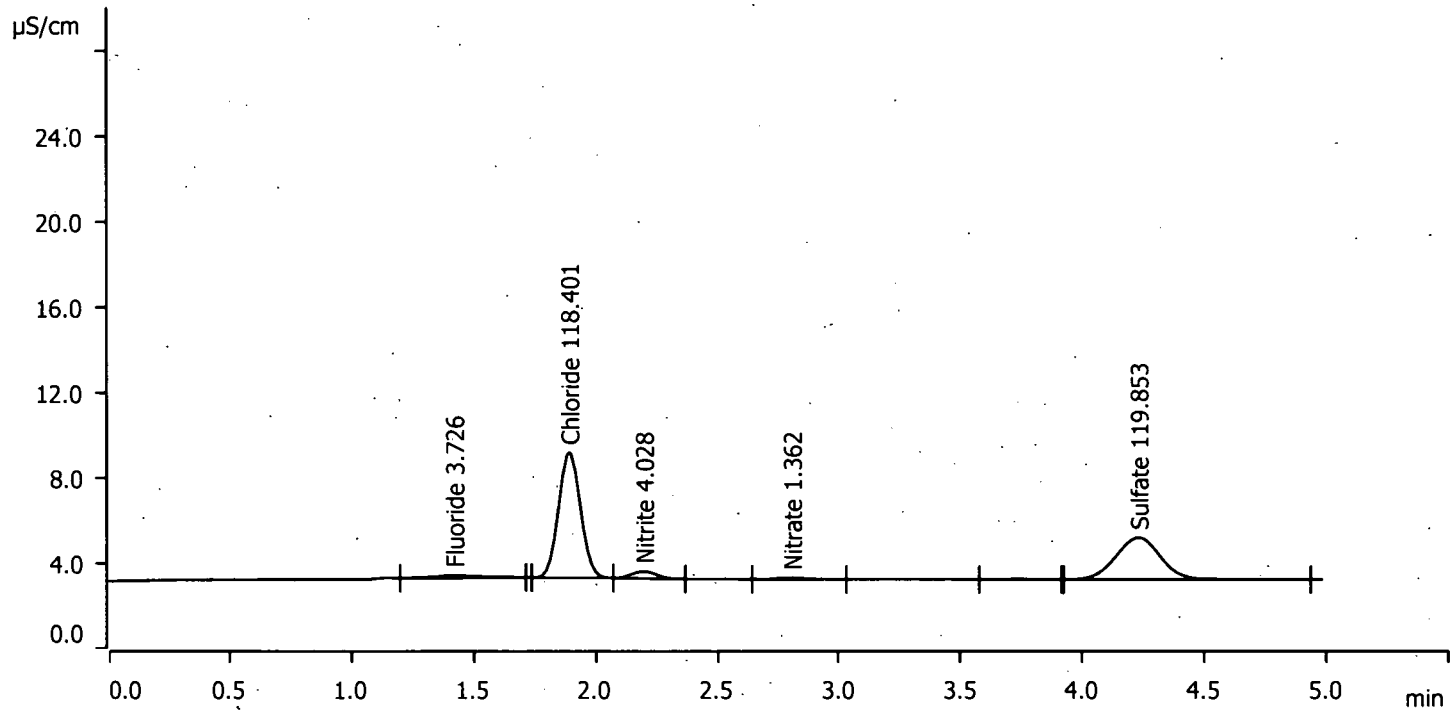
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.935	338.337	Chloride	BB
2	4.30	0.275	163.800	Sulfate	BB

Sample data

Ident	R2408385-023
Sample type	Sample
Determination start	2024-09-15 12:18:43 UTC-4
Method	10-091224FAST
Dilution	20
Counter	92332
Sample Position	42
Comment 1	300.0 S
Comment 2	

Anions



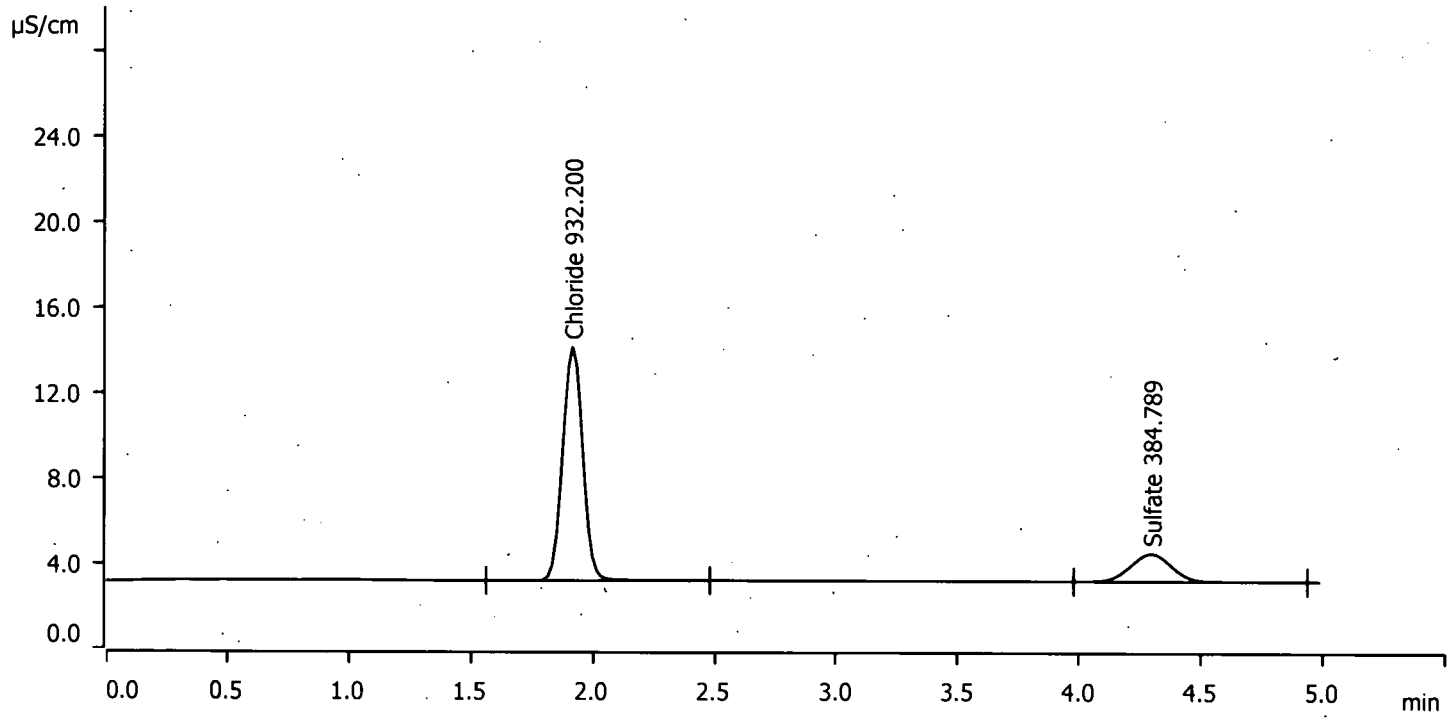
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.43	0.025	3.726	Fluoride	BBI
2	1.90	0.607	118.401	Chloride	BB
3	2.20	0.039	4.028	Nitrite	BB
4	2.81	0.011	1.362	Nitrate	BB
6	4.23	0.417	119.853	Sulfate	BB

Sample data

Ident	R2408385-024
Sample type	Sample
Determination start	2024-09-15 12:25:00 UTC-4
Method	10-091224FAST
Dilution	100
Counter	92333
Sample Position	43
Comment 1	300.0 S
Comment 2	

Anions



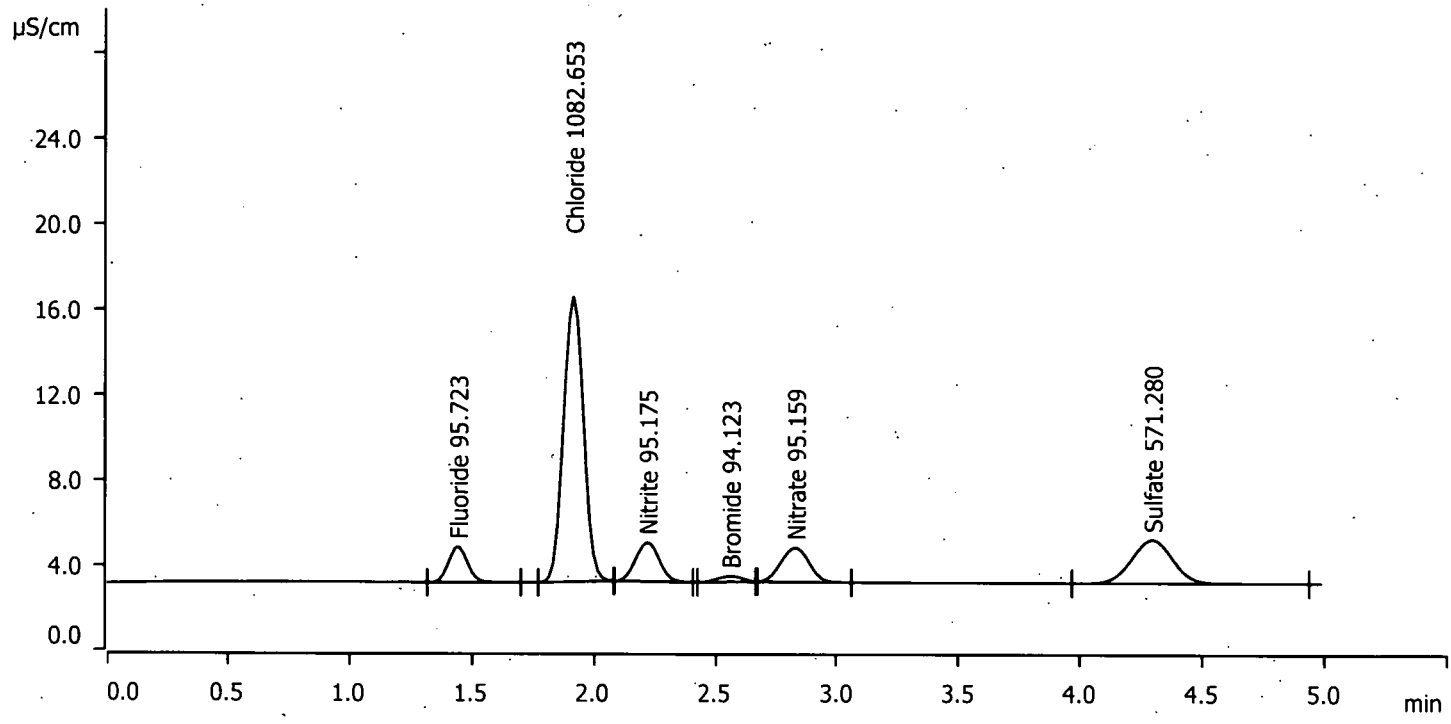
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	1.055	932.200	Chloride	BB
2	4.30	0.257	384.789	Sulfate	BB

Sample data

Ident	R2408385-024 MS
Sample type	Sample
Determination start	2024-09-15 12:31:15 UTC-4
Method	10-091224FAST
Dilution	100
Counter	92334
Sample Position	44
Comment 1	300.0 S
Comment 2	

Anions



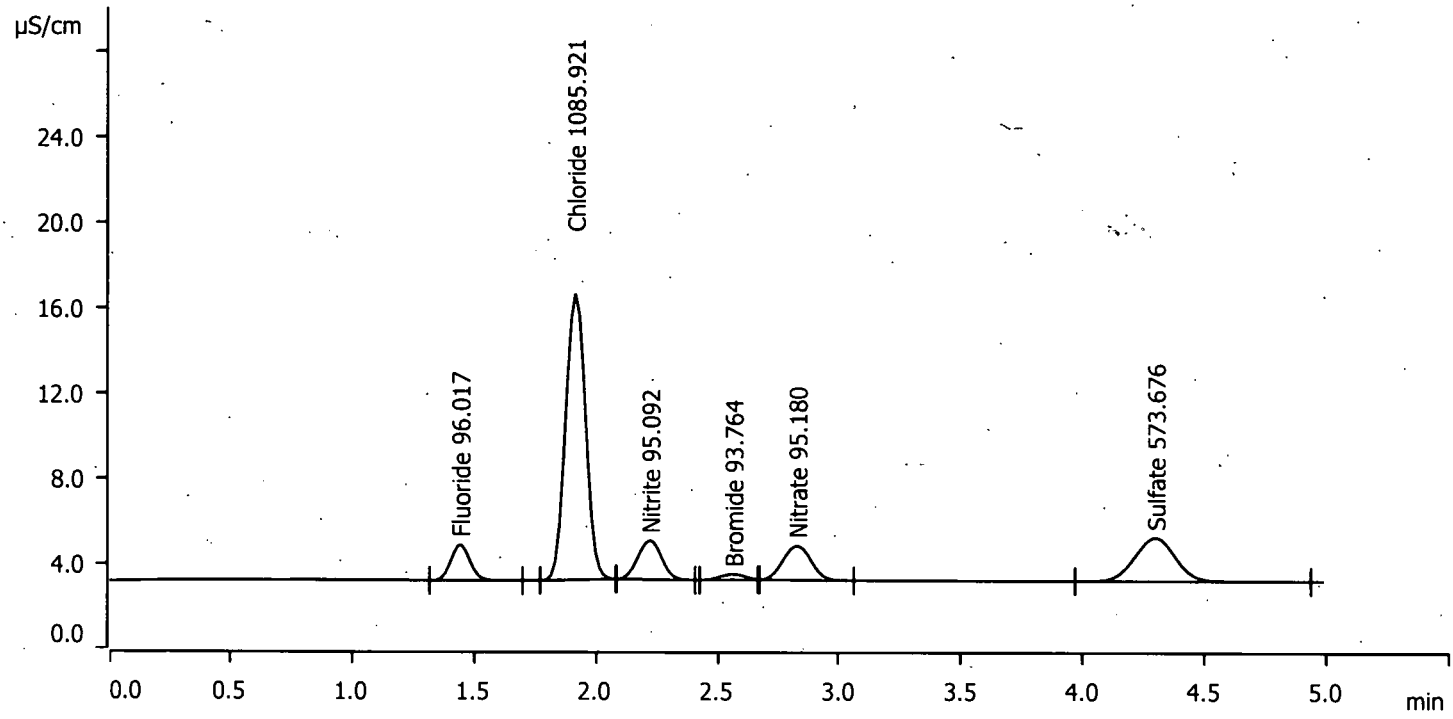
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.150	95.723	Fluoride	BB
2	1.92	1.276	1082.653	Chloride	BB
3	2.22	0.205	95.175	Nitrite	BB
4	2.57	0.030	94.123	Bromide	BB
5	2.83	0.213	95.159	Nitrate	BB
6	4.30	0.396	571.280	Sulfate	BB

Sample data

Ident	R2408385-024 MSD
Sample type	Sample
Determination start	2024-09-15 12:37:31 UTC-4
Method	10-091224FAST
Dilution	100
Counter	92335
Sample Position	45
Comment 1	300.0 S
Comment 2	

Anions



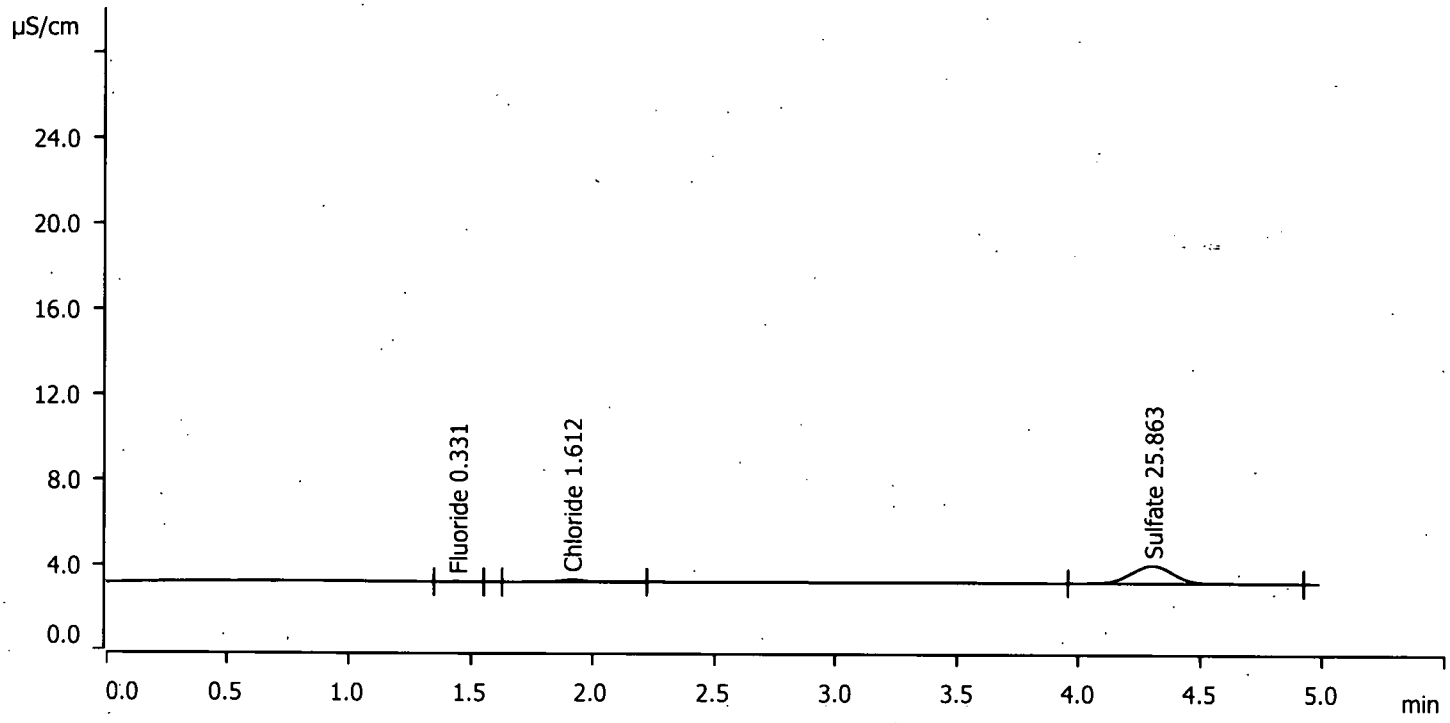
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.150	96.017	Fluoride	BB
2	1.92	1.281	1085.921	Chloride	BB
3	2.22	0.205	95.092	Nitrite	BB
4	2.57	0.030	93.764	Bromide	BB
5	2.83	0.213	95.180	Nitrate	BB
6	4.30	0.398	573.676	Sulfate	BB

Sample data

Ident	R2408139-001
Sample type	Sample
Determination start	2024-09-15 12:43:51 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92336
Sample Position	46
Comment 1	300.0 S
Comment 2	

Anions



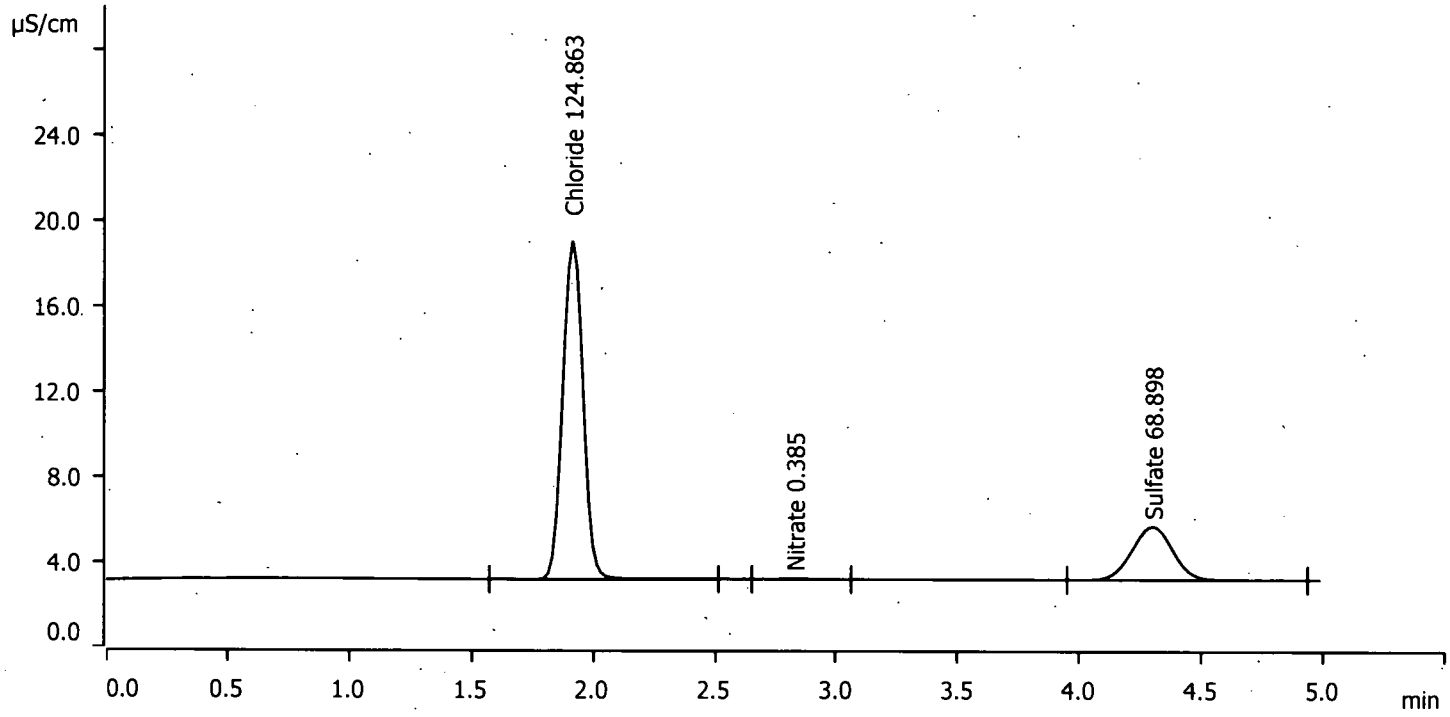
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.002	0.331	Fluoride	BB
2	1.92	0.012	1.612	Chloride	BB
3	4.30	0.168	25.863	Sulfate	BB

Sample data

Ident	R2408139-002
Sample type	Sample
Determination start	2024-09-15 12:50:07 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92337
Sample Position	47
Comment 1	300.0 S
Comment 2	

Anions



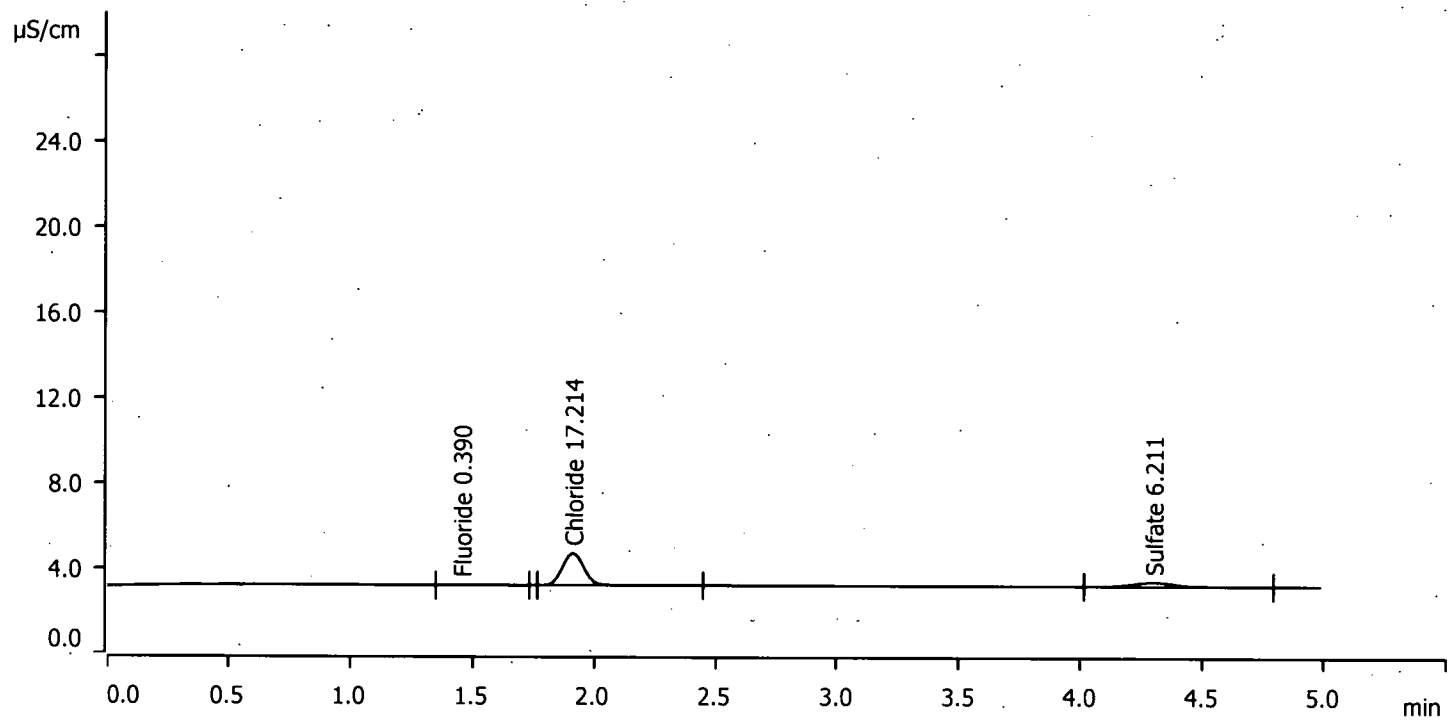
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	1.536	124.863	Chloride	BB
2	2.83	0.004	0.385	Nitrate	BB
3	4.30	0.488	68.898	Sulfate	BB

Sample data

Ident	R2408139-003
Sample type	Sample
Determination start	2024-09-15 12:56:21 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92338
Sample Position	48
Comment 1	300.0 S
Comment 2	

Anions



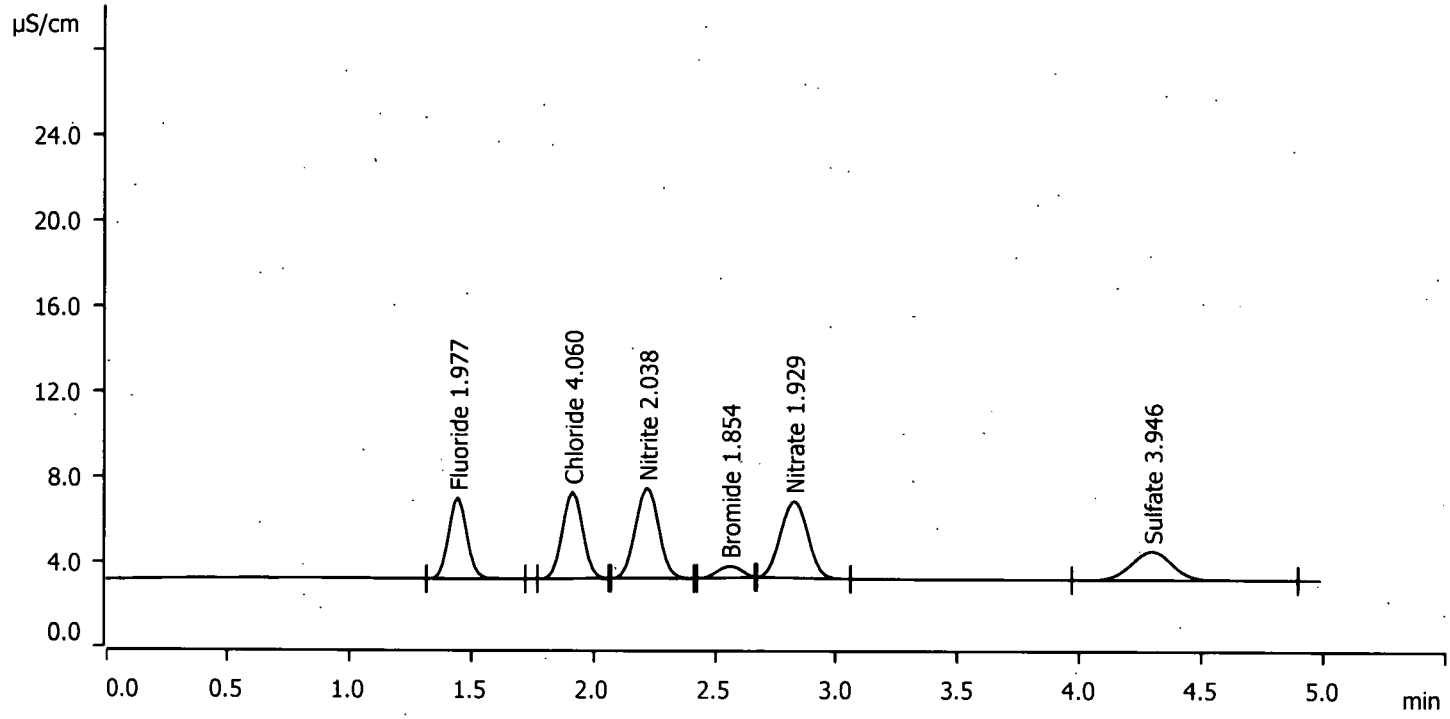
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.46	0.003	0.390	Fluoride	BB
2	1.92	0.153	17.214	Chloride	BB
3	4.30	0.039	6.211	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-15 13:02:37 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92339
Sample Position	49
Comment 1	300.0/9056A
Comment 2	

Anions



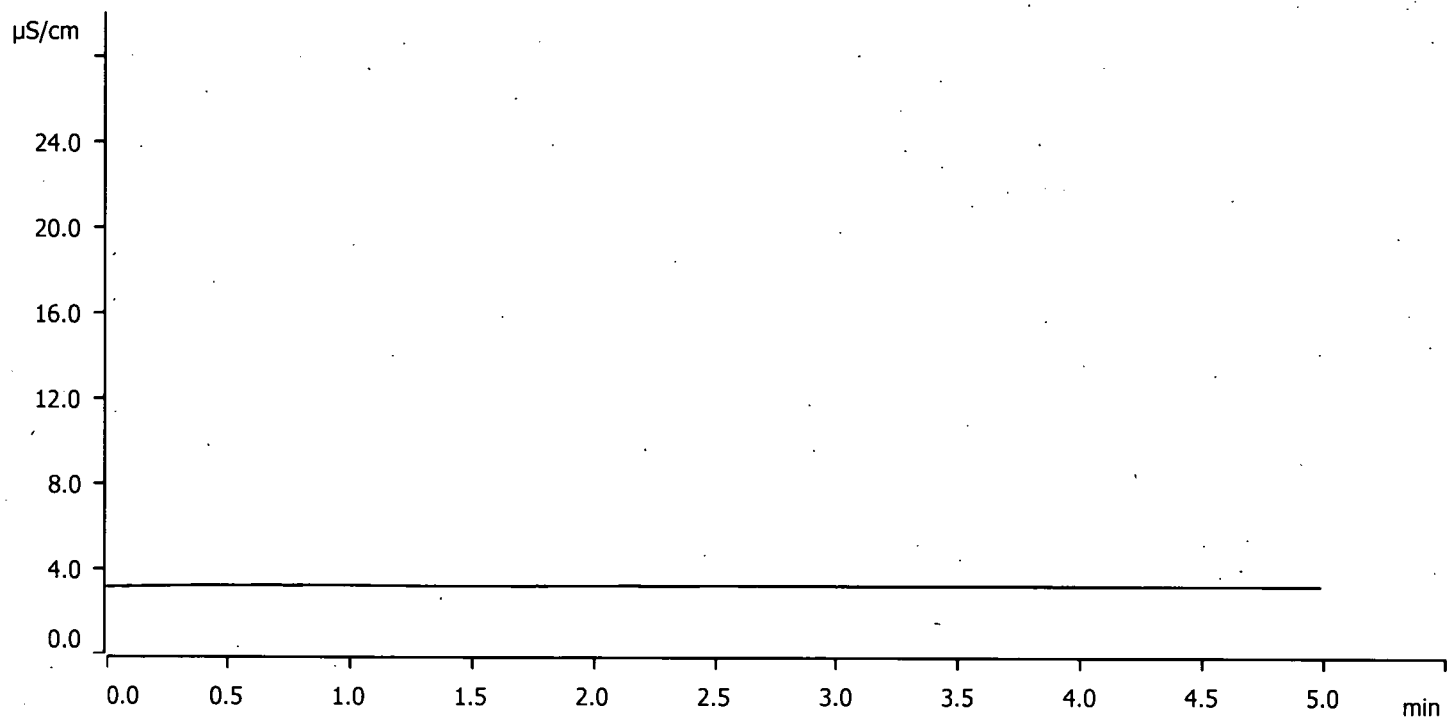
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.331	1.977	Fluoride	BB
2	1.92	0.393	4.060	Chloride	BB
3	2.22	0.470	2.038	Nitrite	BB
4	2.57	0.061	1.854	Bromide	BB
5	2.83	0.467	1.929	Nitrate	BB
6	4.30	0.264	3.946	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-15 13:08:53 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92340
Sample Position	50
Comment 1	300.0/9056A
Comment 2	

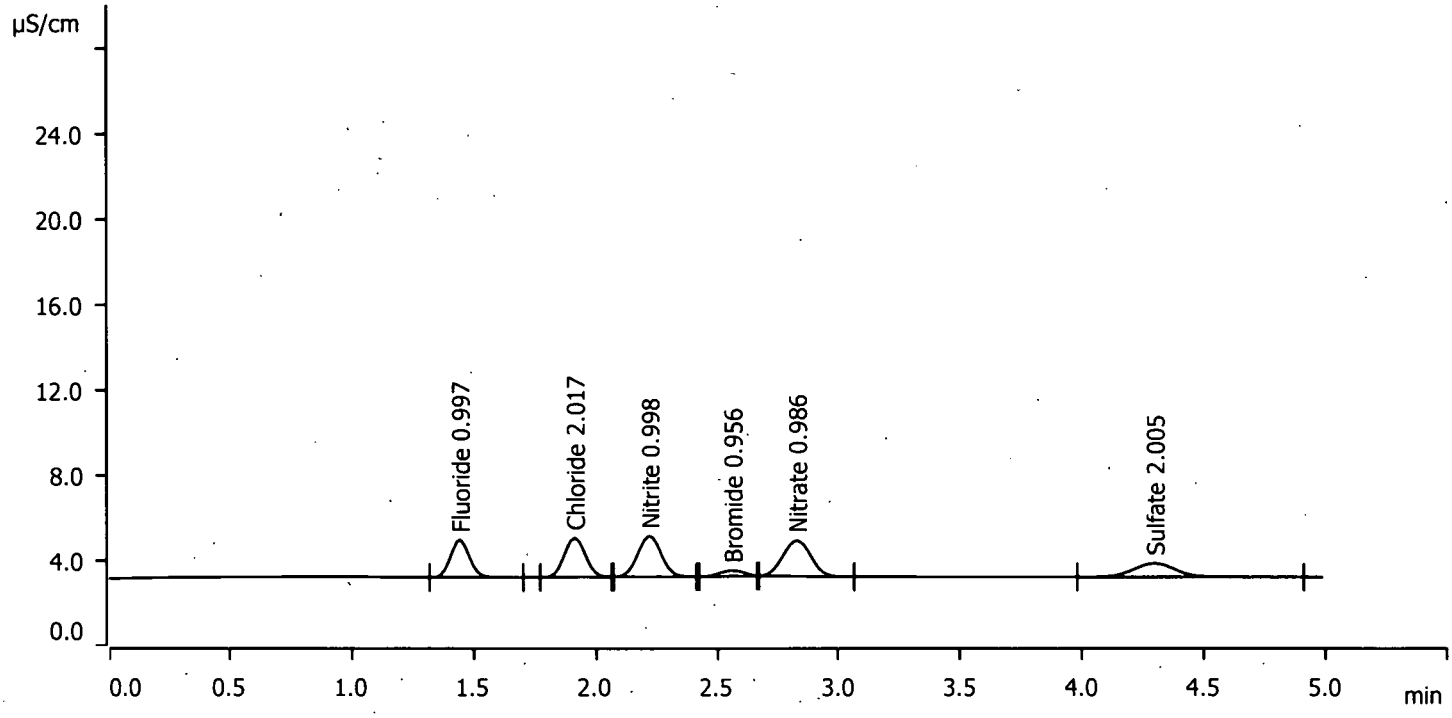
Anions



Sample data

Ident	LCS
Sample type	Check standard 2
Determination start	2024-09-15 13:15:07 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92341
Sample Position	51
Comment 1	300.0/9056A
Comment 2	

Anions



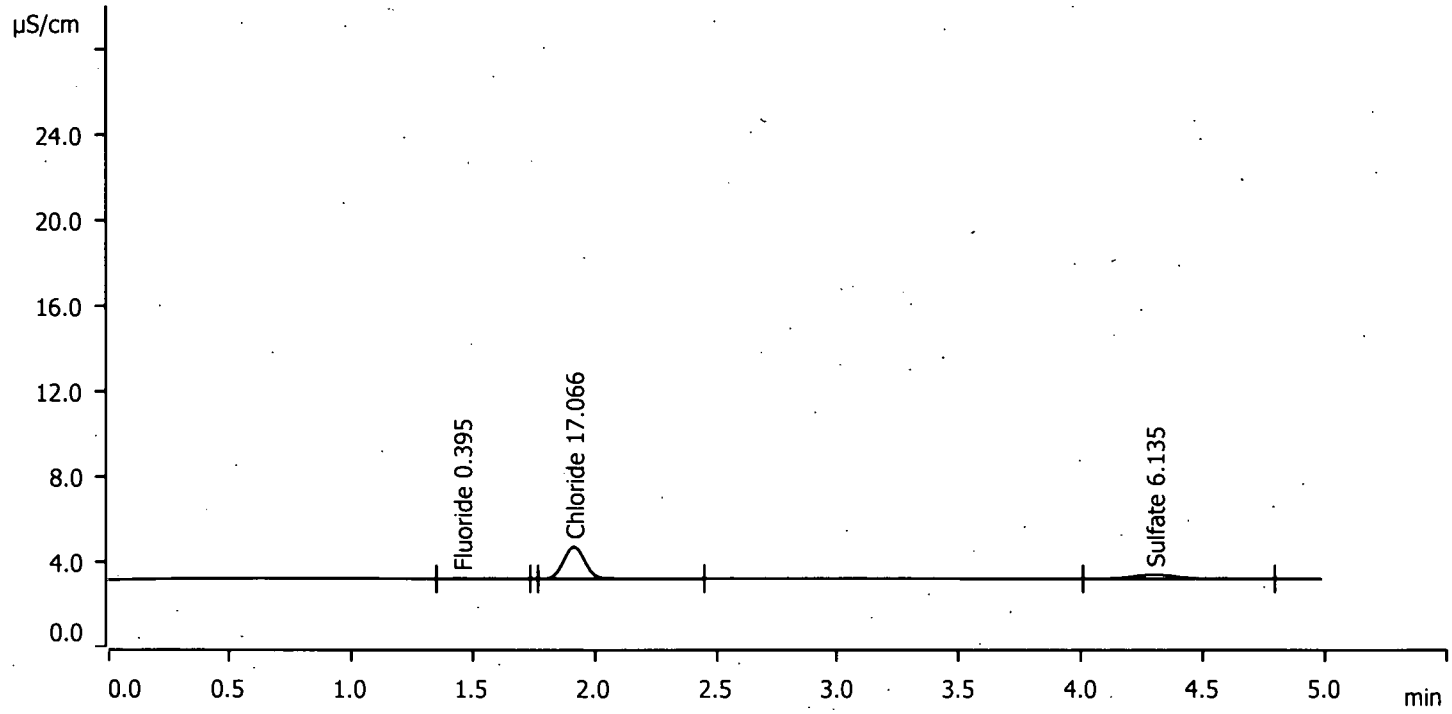
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.156	0.997	Fluoride	BB
2	1.92	0.181	2.017	Chloride	BB
3	2.22	0.216	0.998	Nitrite	BB
4	2.57	0.031	0.956	Bromide	BB
5	2.83	0.222	0.986	Nitrate	BB
6	4.30	0.129	2.005	Sulfate	BB

Sample data

Ident	R2408139-004
Sample type	Sample
Determination start	2024-09-15 13:21:23 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92342
Sample Position	52
Comment 1	300.0 S
Comment 2	

Anions



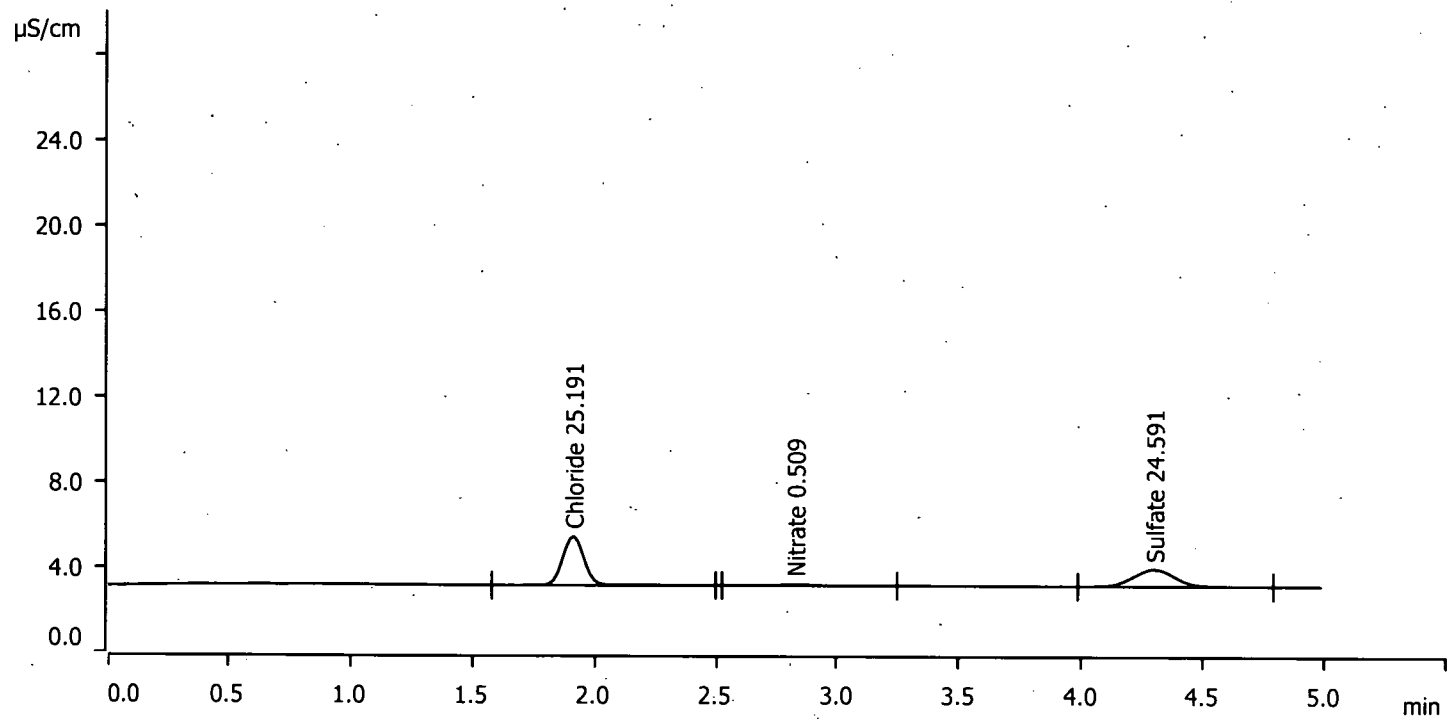
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.46	0.003	0.395	Fluoride	BB
2	1.92	0.152	17.066	Chloride	BB
3	4.30	0.038	6.135	Sulfate	BB

Sample data

Ident	R2408139-005
Sample type	Sample
Determination start	2024-09-15 13:27:39 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92343
Sample Position	53
Comment 1	300.0 S
Comment 2	

Anions



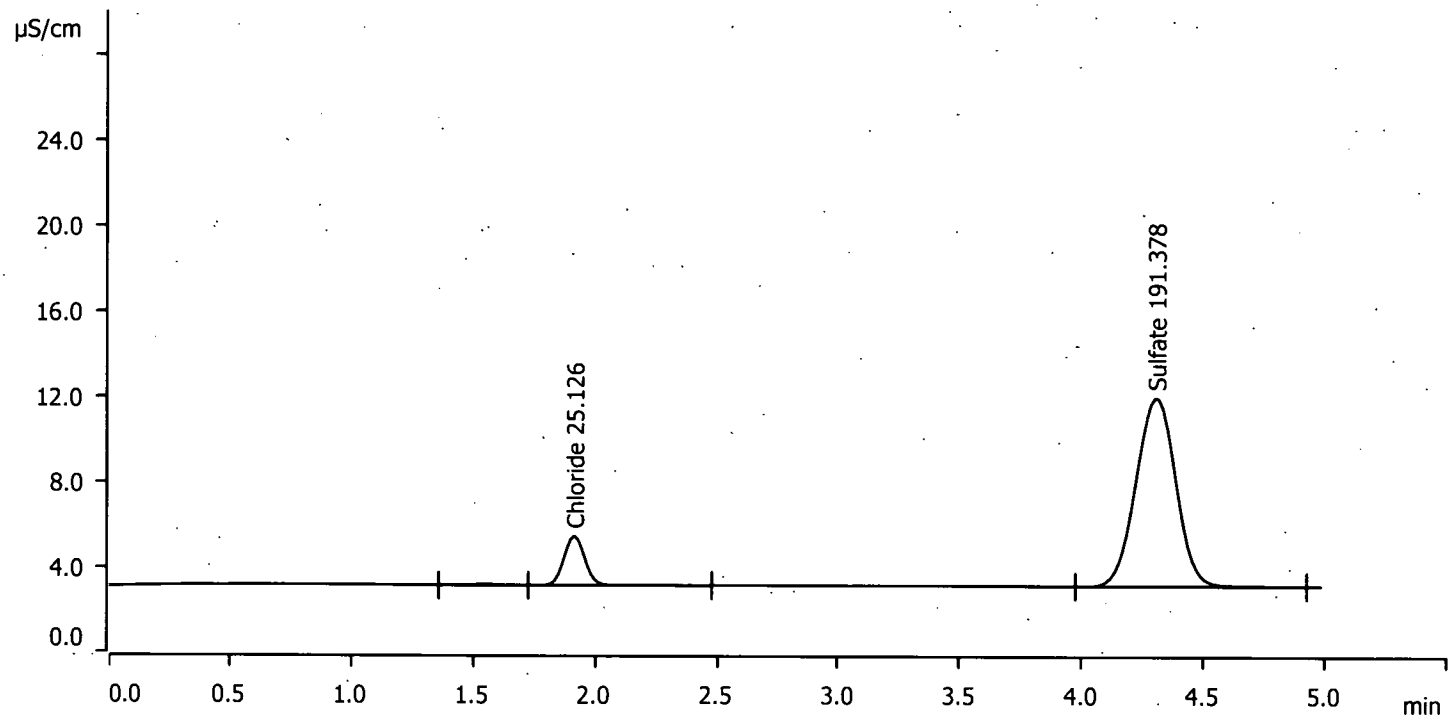
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.231	25.191	Chloride	BB
2	2.83	0.007	0.509	Nitrate	BB
3	4.30	0.159	24.591	Sulfate	BB

Sample data

Ident	R2408139-007 DNR
Sample type	Sample
Determination start	2024-09-15 13:33:54 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92344
Sample Position	54
Comment 1	300.0 S
Comment 2	

Anions



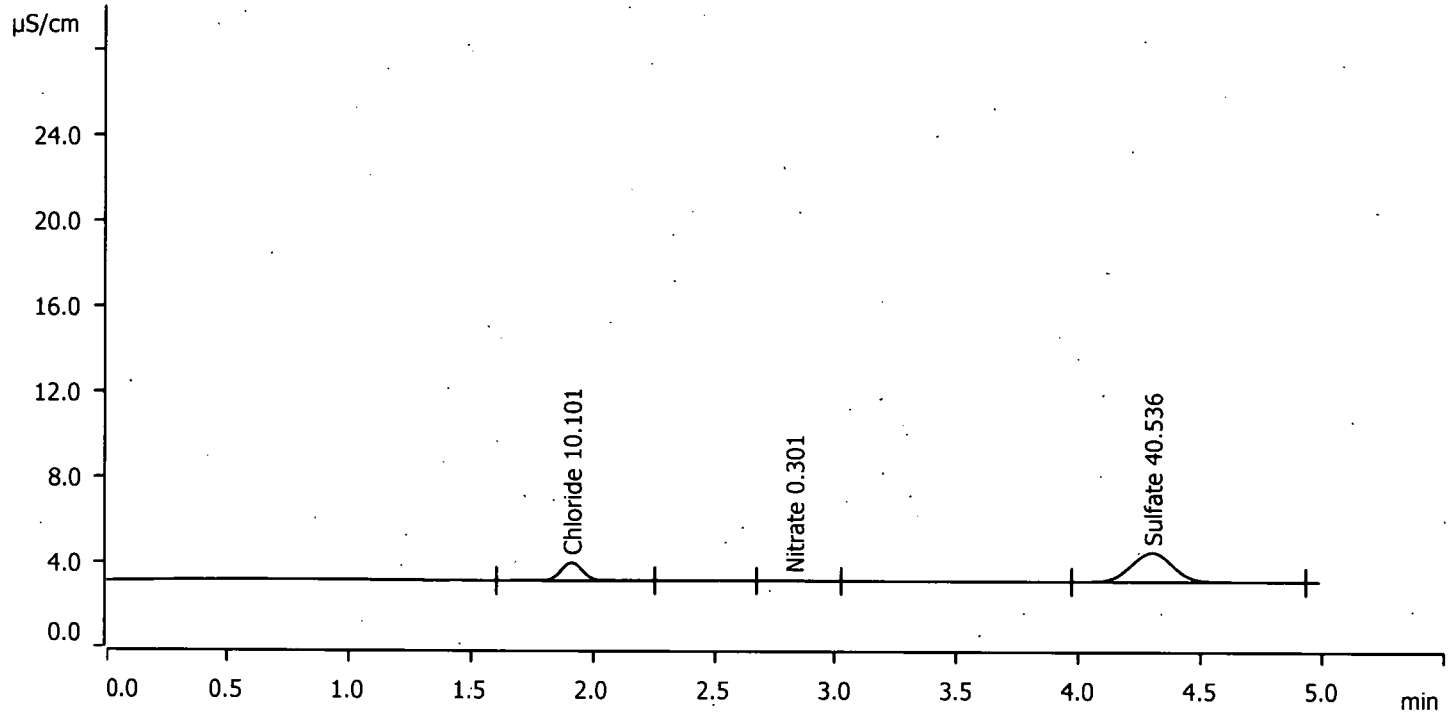
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.92	0.230	25.126	Chloride	BB
3	4.31	1.678	191.378	Sulfate	BB

Sample data

Ident	R2408139-008
Sample type	Sample
Determination start	2024-09-15 13:40:09 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92345
Sample Position	55
Comment 1	300.0 S
Comment 2	

Anions



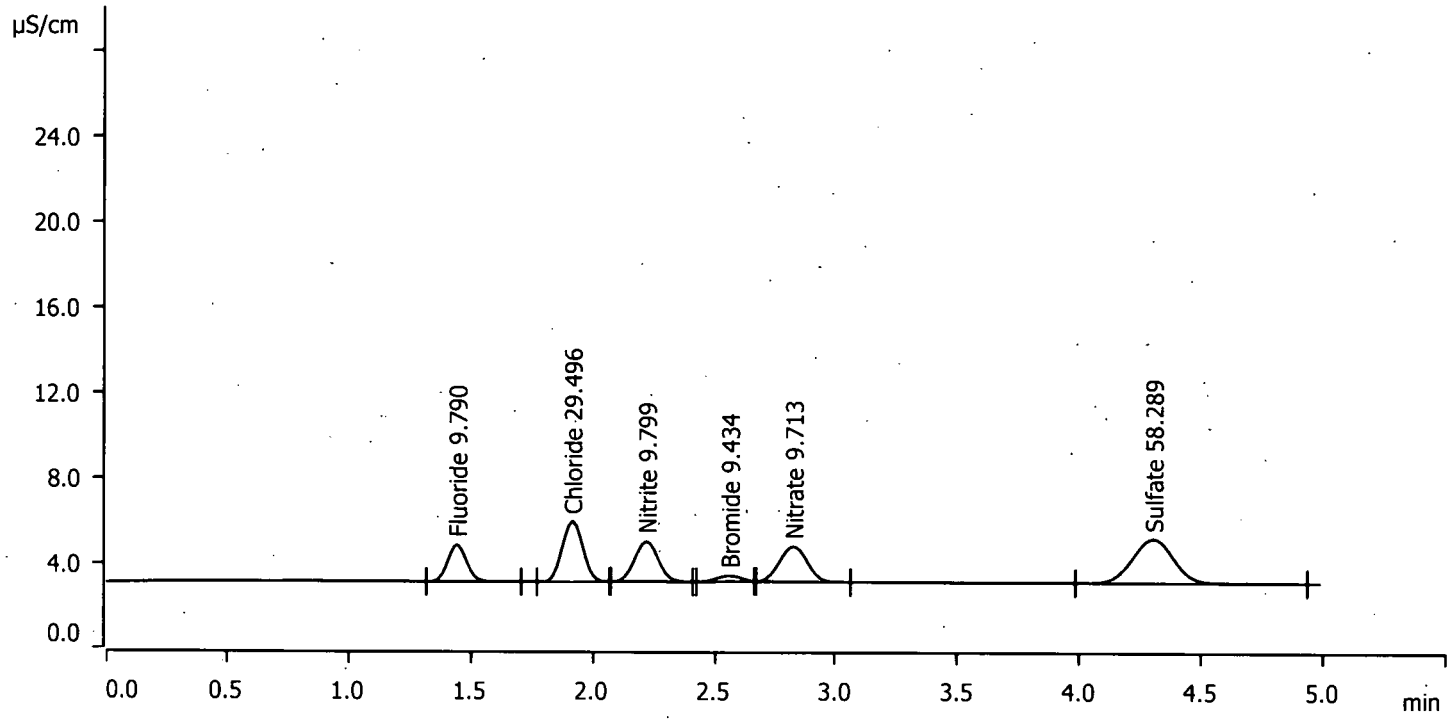
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.087	10.101	Chloride	BB
2	2.83	0.002	0.301	Nitrate	BB
3	4.30	0.272	40.536	Sulfate	BB

Sample data

Ident	R2408139-008 MS!
Sample type	Sample
Determination start	2024-09-15 13:46:24 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92346
Sample Position	56
Comment 1	300.0 S
Comment 2	

Anions



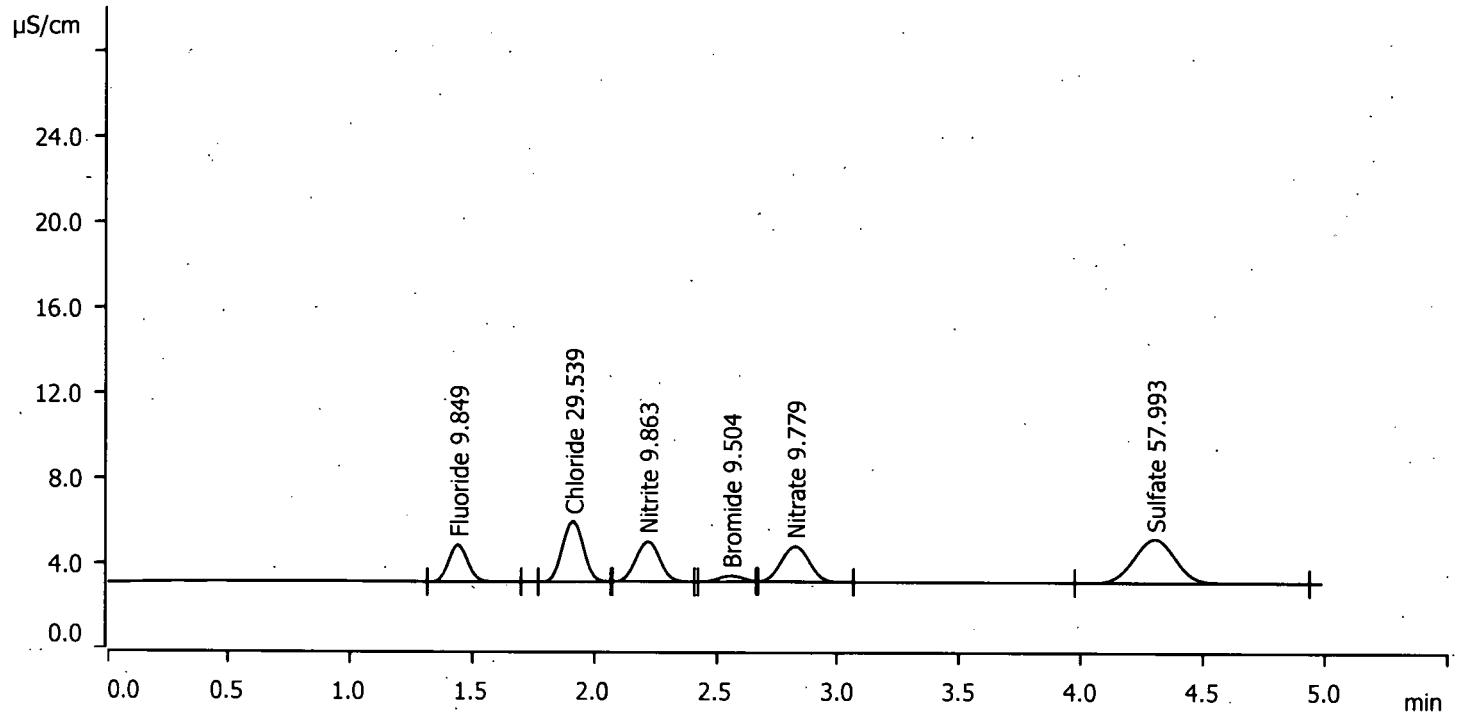
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.153	9.790	Fluoride	BB
2	1.92	0.275	29.496	Chloride	BB
3	2.22	0.211	9.799	Nitrite	BB
4	2.56	0.030	9.434	Bromide	BB
5	2.83	0.218	9.713	Nitrate	BB
6	4.30	0.405	58.289	Sulfate	BB

Sample data

Ident	R2408139-008 MSD!
Sample type	Sample
Determination start	2024-09-15 13:52:40 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92347
Sample Position	57
Comment 1	300.0 S
Comment 2	

Anions



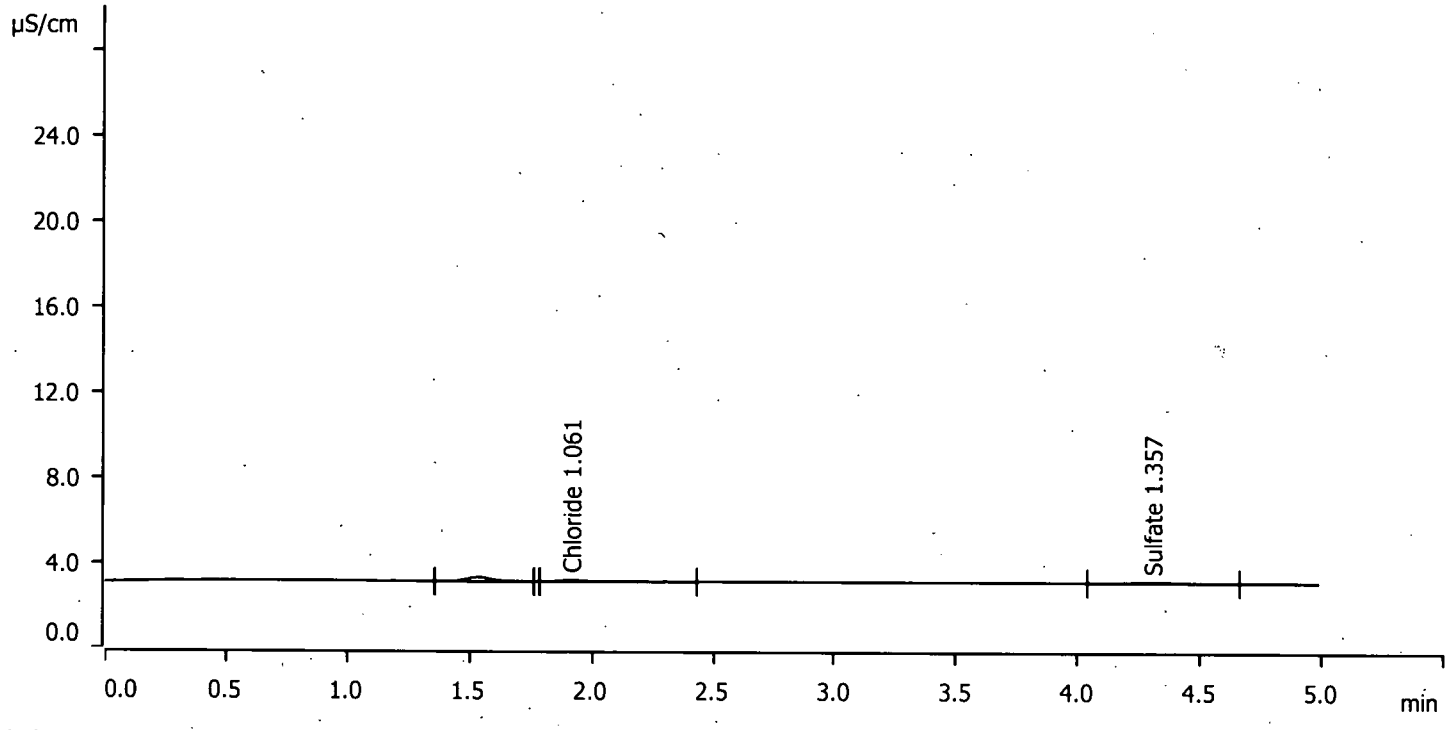
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.154	9.849	Fluoride	BB
2	1.92	0.275	29.539	Chloride	BB
3	2.22	0.213	9.863	Nitrite	BB
4	2.56	0.030	9.504	Bromide	BB
5	2.83	0.220	9.779	Nitrate	BB
6	4.30	0.402	57.993	Sulfate	BB

Sample data

Ident	R2408139-010
Sample type	Sample
Determination start	2024-09-15 13:58:55 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92348
Sample Position	58
Comment 1	300.0 S
Comment 2	

Anions



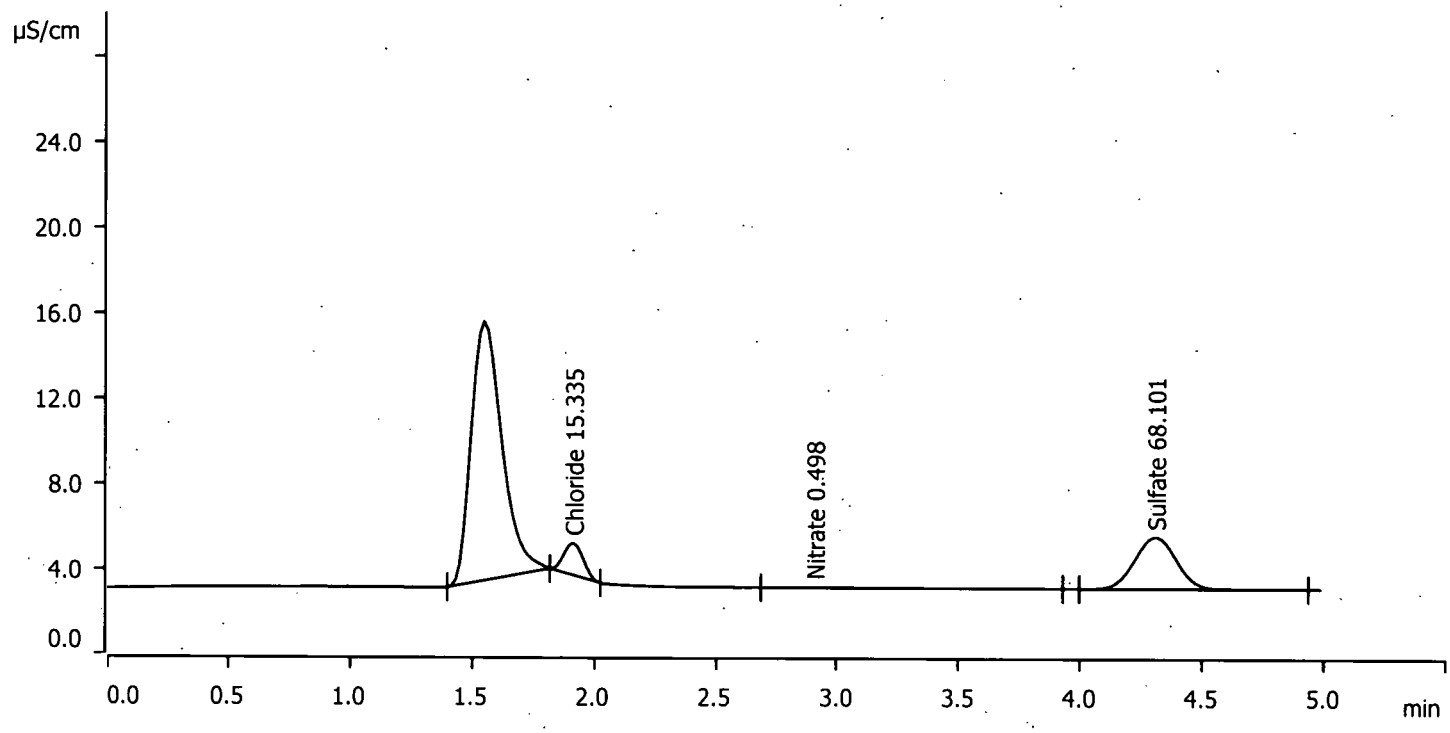
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.92	0.007	1.061	Chloride	BB
3	4.30	0.008	1.357	Sulfate	BB

Sample data

Ident	R2408139-012
Sample type	Sample
Determination start	2024-09-15 14:05:11 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92349
Sample Position	59
Comment 1	300.0 S
Comment 2	

Anions



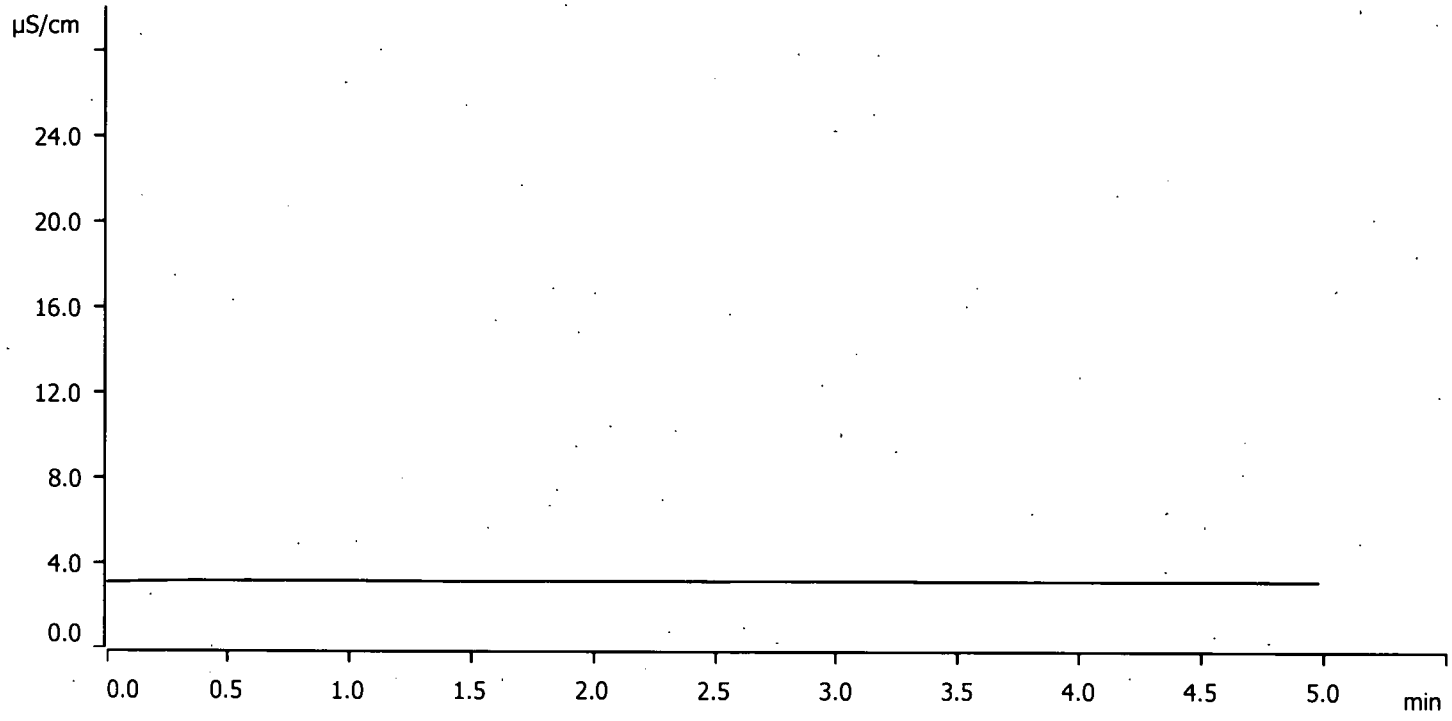
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.92	0.135	15.335	Chloride	BB
3	2.90	0.007	0.498	Nitrate	BBI
4	4.31	0.482	68.101	Sulfate	BB

Sample data

Ident	R2408139-013
Sample type	Sample
Determination start	2024-09-15 14:11:27 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92350
Sample Position	60
Comment 1	300.0 S
Comment 2	

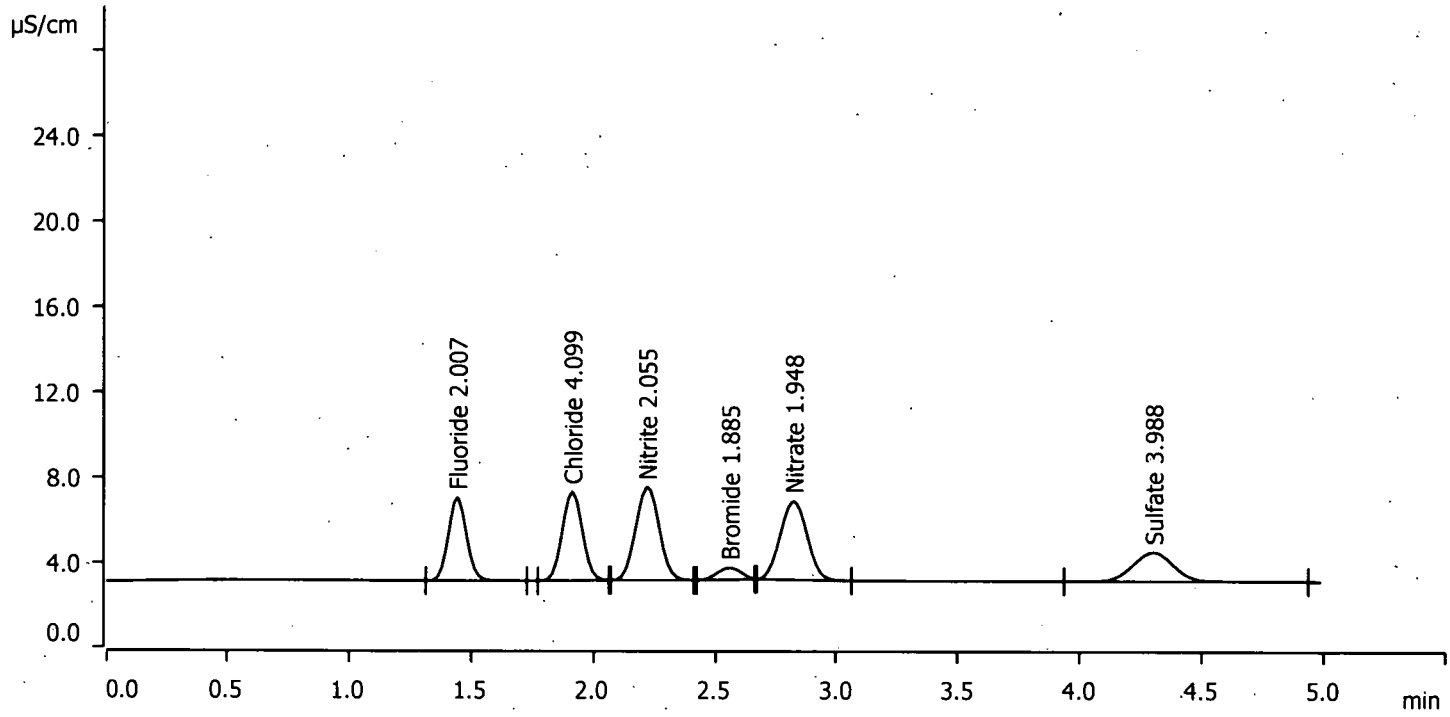
Anions



Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-15 14:17:41 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92351
Sample Position	61
Comment 1	300.0/9056A
Comment 2	

Anions



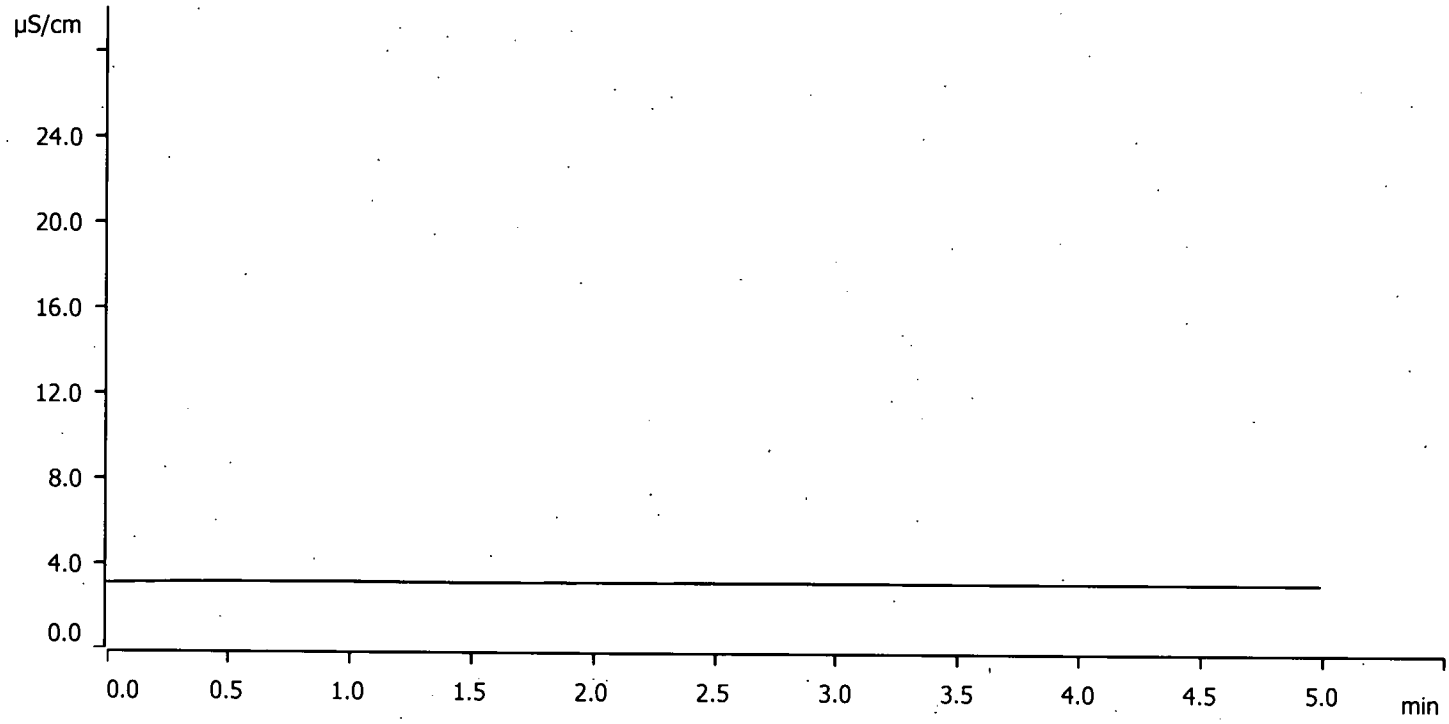
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.336	2.007	Fluoride	BB
2	1.92	0.397	4.099	Chloride	BB
3	2.22	0.475	2.055	Nitrite	BB
4	2.56	0.062	1.885	Bromide	BB
5	2.82	0.472	1.948	Nitrate	BB
6	4.30	0.267	3.988	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-15 14:23:57 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92352
Sample Position	62
Comment 1	300.0/9056A
Comment 2	

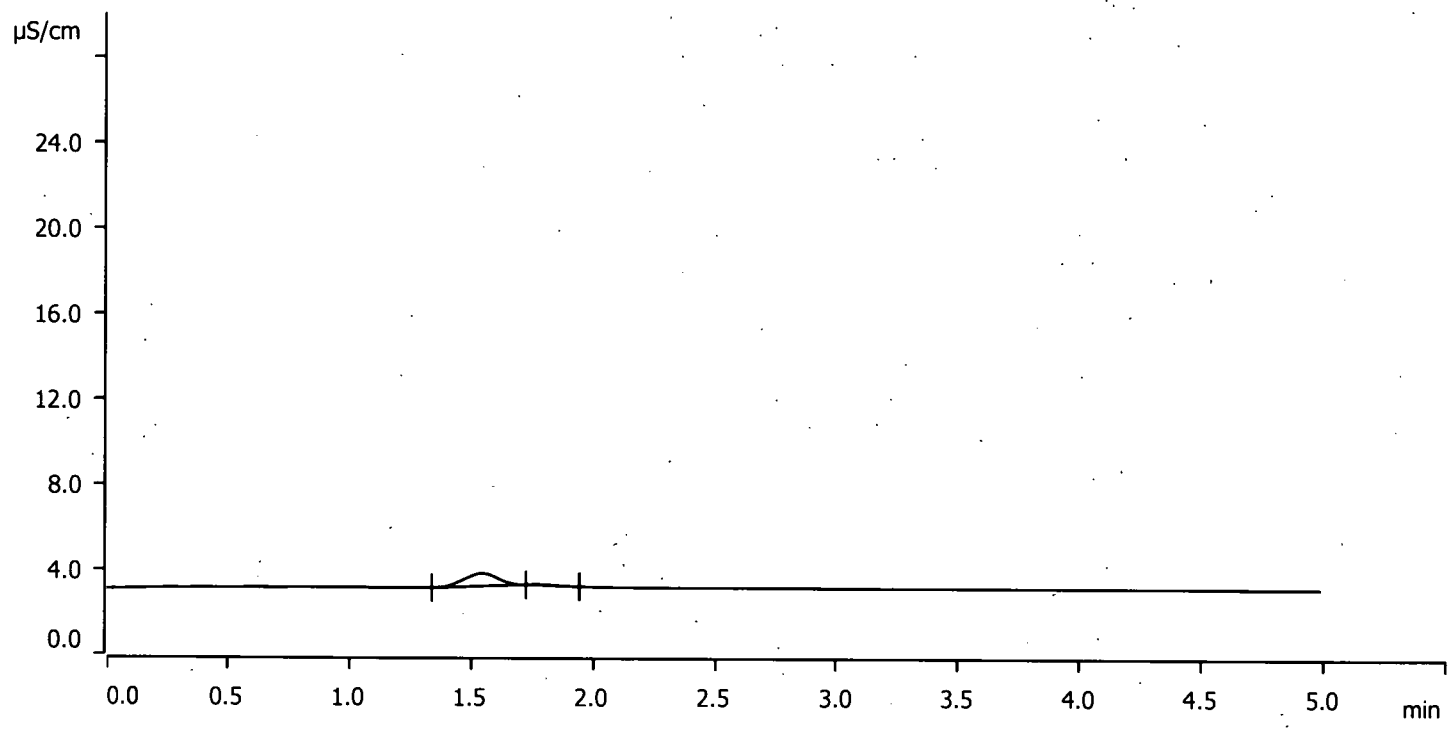
Anions



Sample data

Ident	R2408139-006
Sample type	Sample
Determination start	2024-09-15 14:30:11 UTC-4
Method	10-091224FAST
Dilution	100
Counter	92353
Sample Position	63
Comment 1	300.0 S
Comment 2	FILTERED- OILY/ WAXY MATRIX

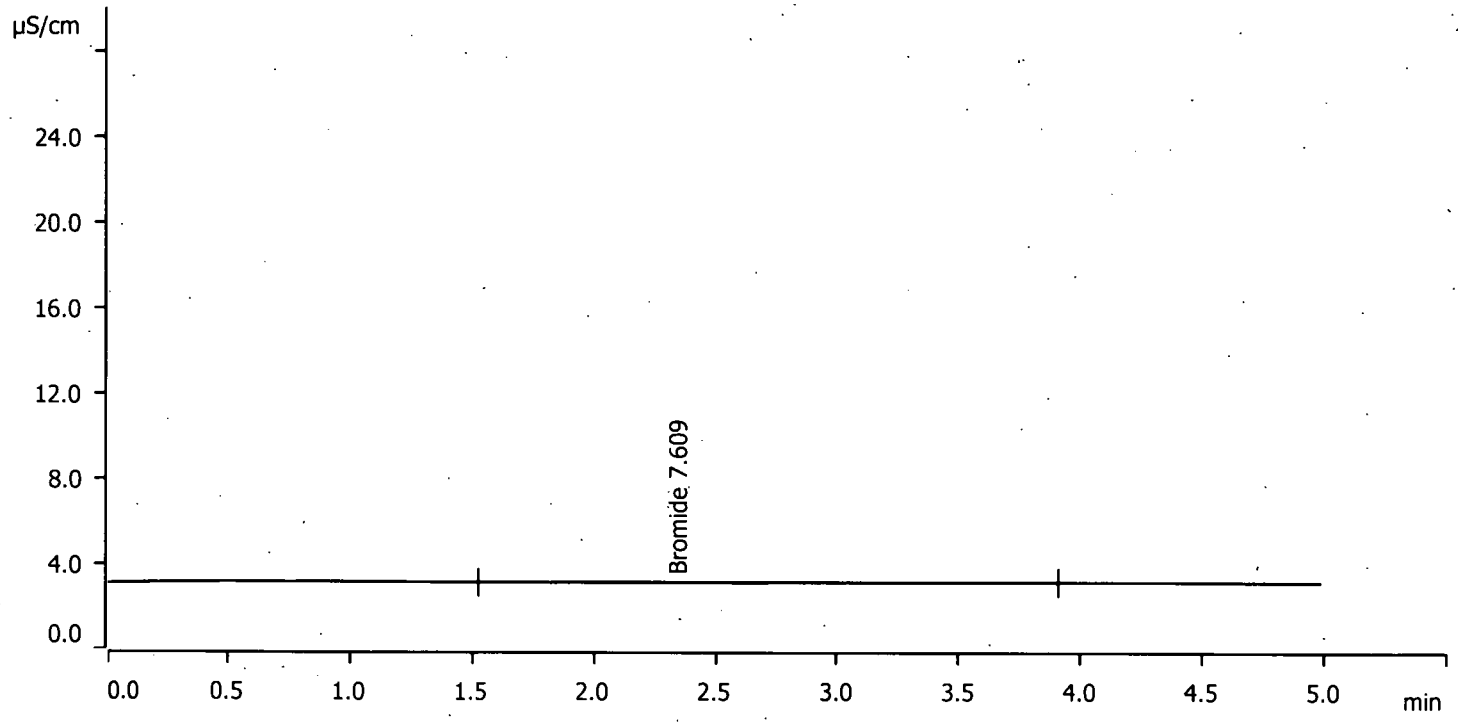
Anions



Sample data

Ident	R2408140-008
Sample type	Sample
Determination start	2024-09-15 14:36:26 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92354
Sample Position	64
Comment 1	300.0 S
Comment 2	

Anions



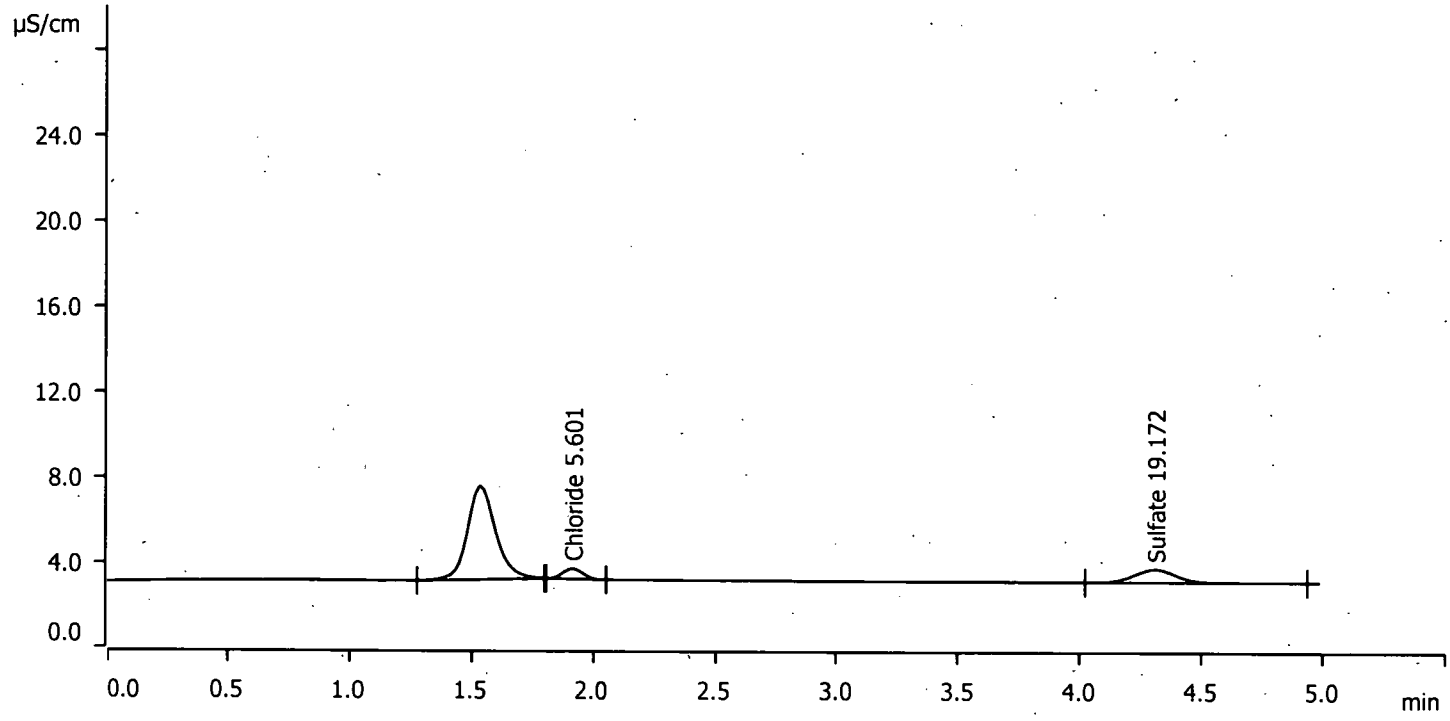
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	2.65	0.024	7.609	Bromide	BB

Sample data

Ident	R2408140-010
Sample type	Sample
Determination start	2024-09-15 14:42:41 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92355
Sample Position	65
Comment 1	300.0 S
Comment 2	

Anions



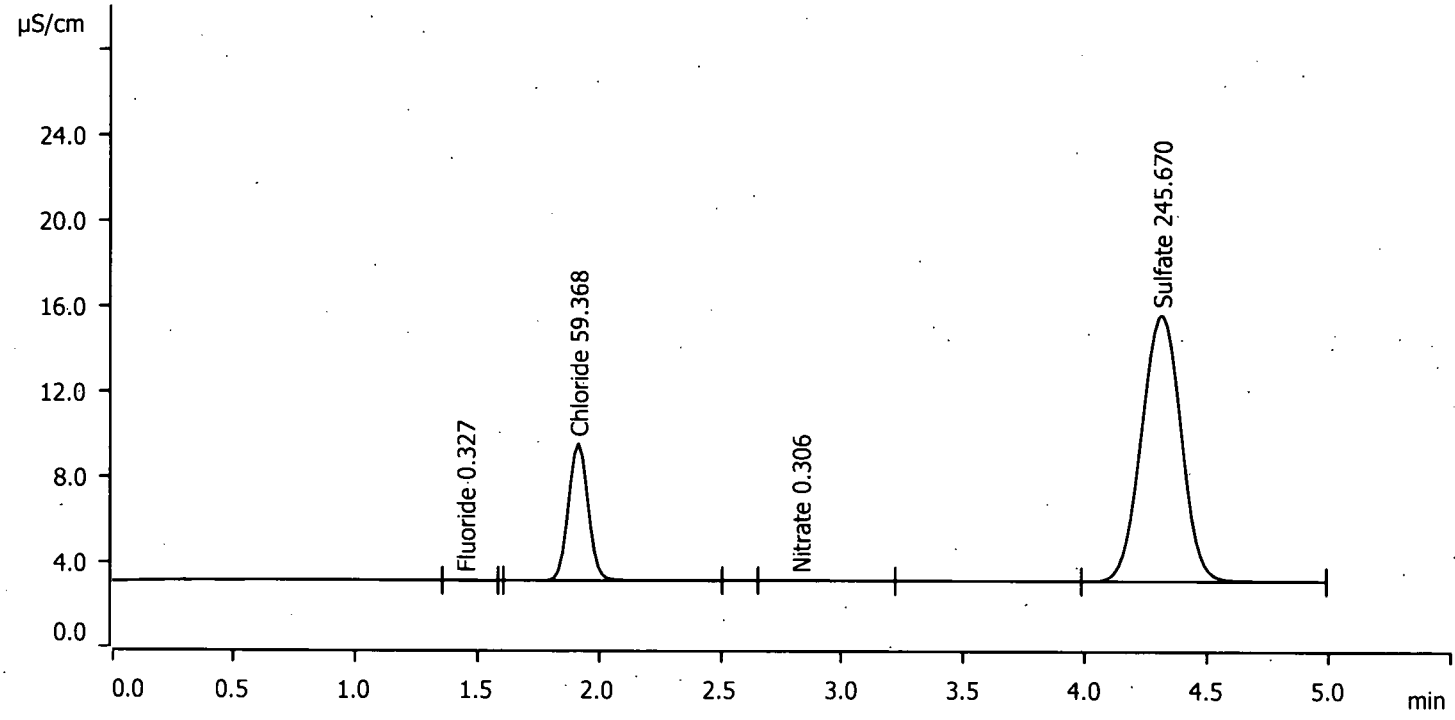
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.92	0.047	5.601	Chloride	BB
3	4.31	0.123	19.172	Sulfate	BB

Sample data

Ident	R2408140-011 DNR
Sample type	Sample
Determination start	2024-09-15 14:48:56 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92356
Sample Position	66
Comment 1	300.0 S
Comment 2	

Anions



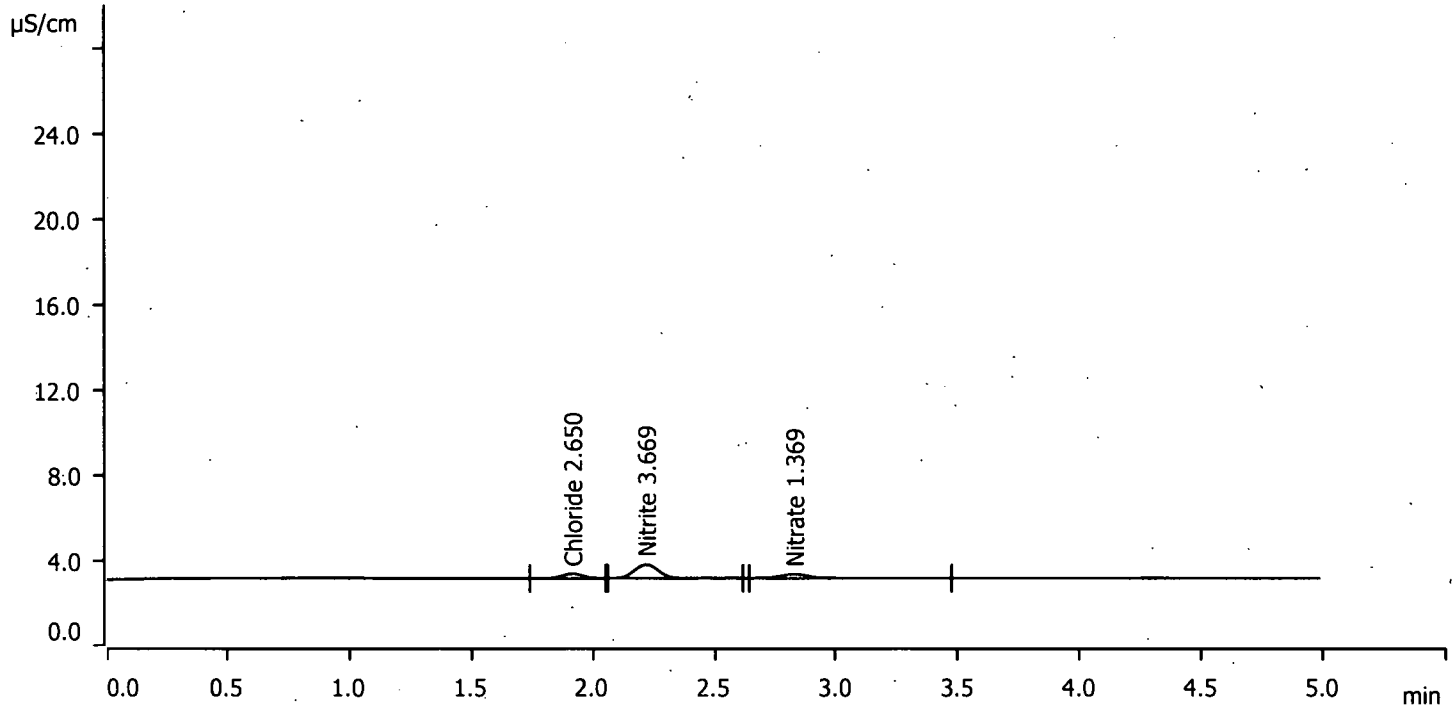
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.002	0.327	Fluoride	BB
2	1.92	0.609	59.368	Chloride	BB
3	2.83	0.003	0.306	Nitrate	BB
4	4.31	2.337	245.670	Sulfate	BB

Sample data

Ident	R2408635-001
Sample type	Sample
Determination start	2024-09-15 14:55:12 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92357
Sample Position	67
Comment 1	300.0 C
Comment 2	

Anions



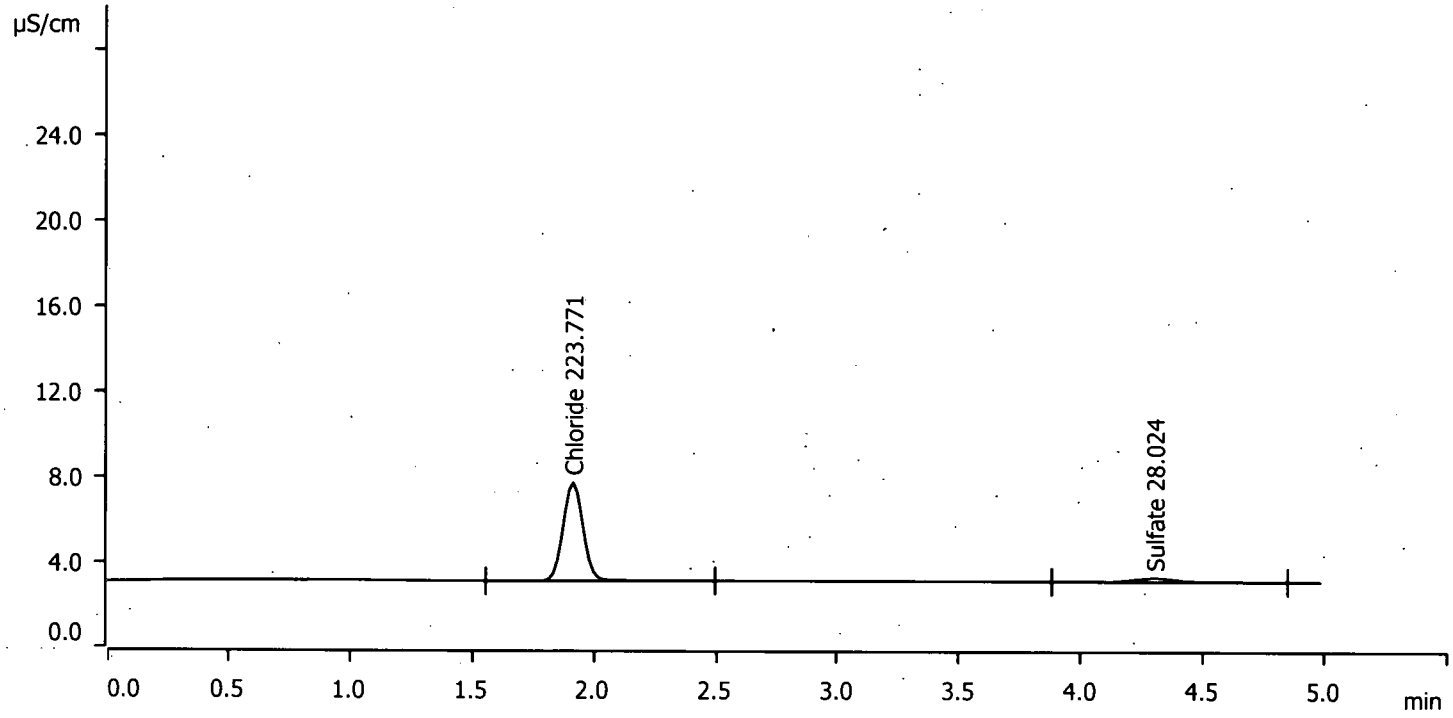
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.021	2.650	Chloride	BB
2	2.22	0.074	3.669	Nitrite	BB
3	2.83	0.025	1.369	Nitrate	BBI

Sample data

Ident	R2408212-010
Sample type	Sample
Determination start	2024-09-15 15:01:27 UTC-4
Method	10-091224FAST
Dilution	50
Counter	92358
Sample Position	68
Comment 1	300.0 C
Comment 2	

Anions



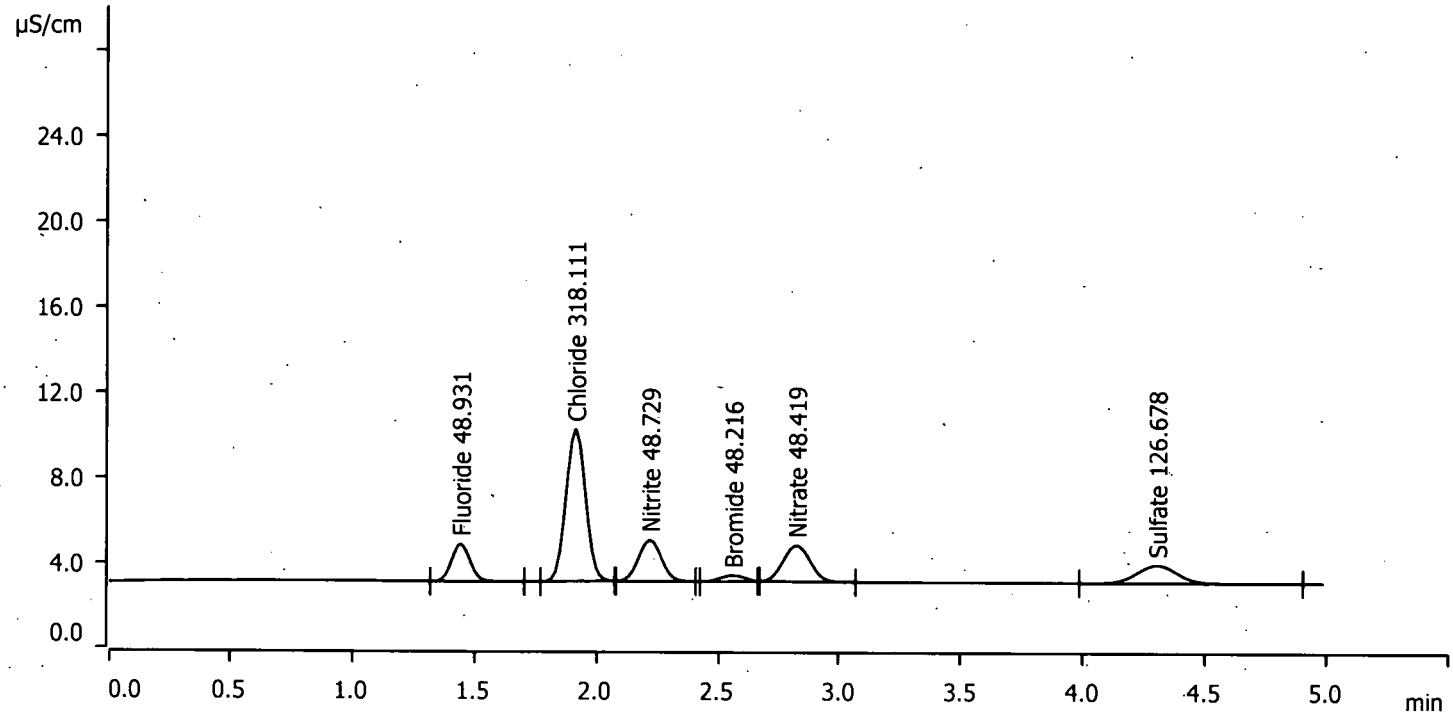
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.439	223.771	Chloride	BB
2	4.30	0.035	28.024	Sulfate	BB

Sample data

Ident	R2408212-010 MS!
Sample type	Sample
Determination start	2024-09-15 15:07:42 UTC-4
Method	10-091224FAST
Dilution	50
Counter	92359
Sample Position	69
Comment 1	300.0 C
Comment 2	

Anions



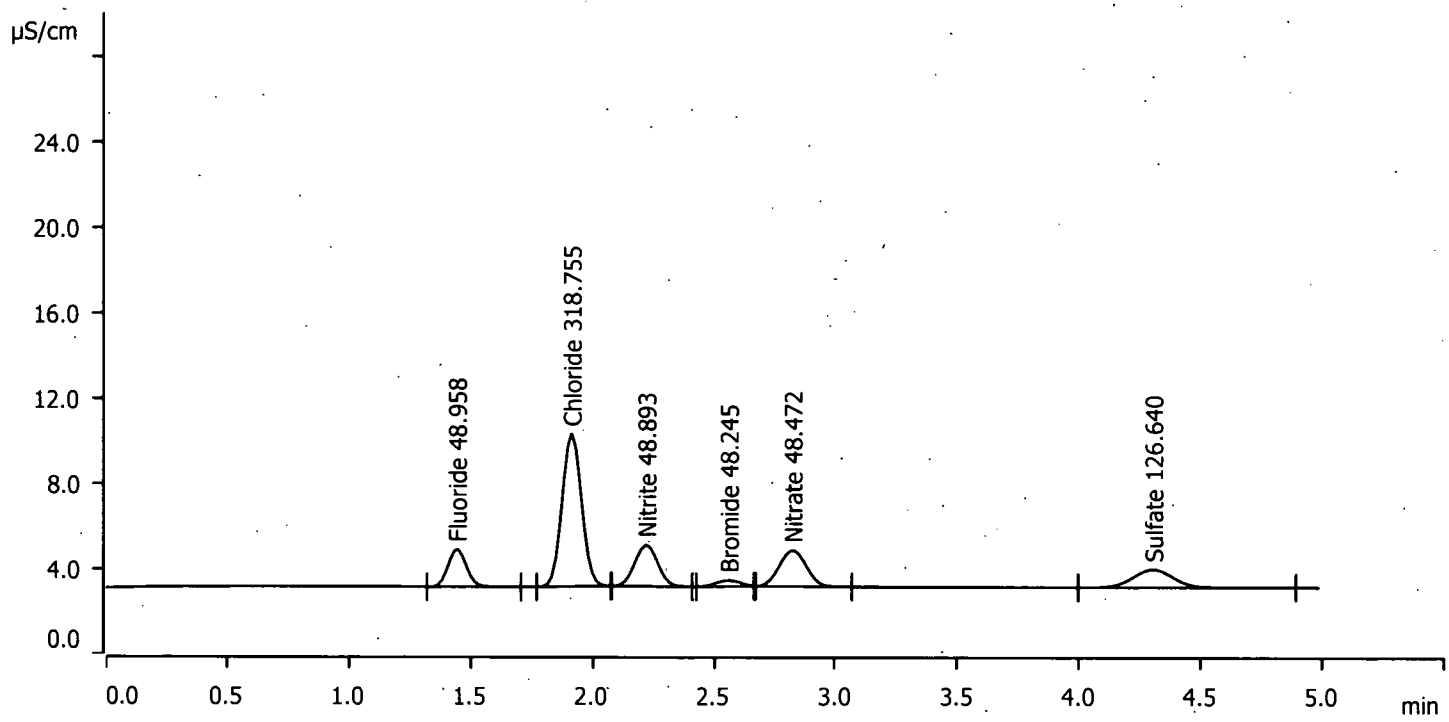
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.153	48.931	Fluoride	BB
2	1.92	0.662	318.111	Chloride	BB
3	2.22	0.210	48.729	Nitrite	BB
4	2.56	0.031	48.216	Bromide	BB
5	2.83	0.217	48.419	Nitrate	BB
6	4.30	0.164	126.678	Sulfate	BB

Sample data

Ident	R2408212-010 MSD!
Sample type	Sample
Determination start	2024-09-15 15:13:57 UTC-4
Method	10-091224FAST
Dilution	50
Counter	92360
Sample Position	70
Comment 1	300.0 C
Comment 2	

Anions



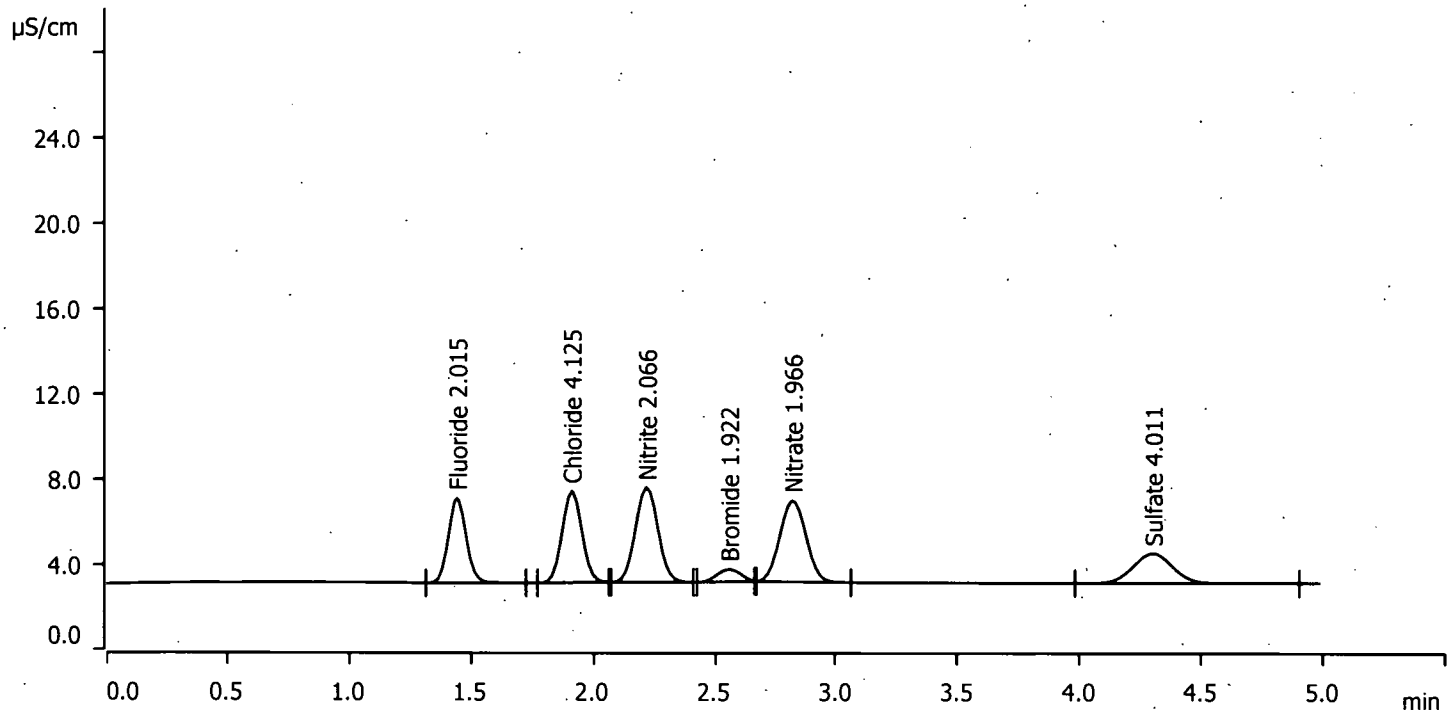
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.153	48.958	Fluoride	BB
2	1.92	0.663	318.755	Chloride	BB
3	2.22	0.211	48.893	Nitrite	BB
4	2.56	0.031	48.245	Bromide	BB
5	2.83	0.217	48.472	Nitrate	BB
6	4.30	0.164	126.640	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-15 15:20:13 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92361
Sample Position	71
Comment 1	300.0/9056A
Comment 2	

Anions



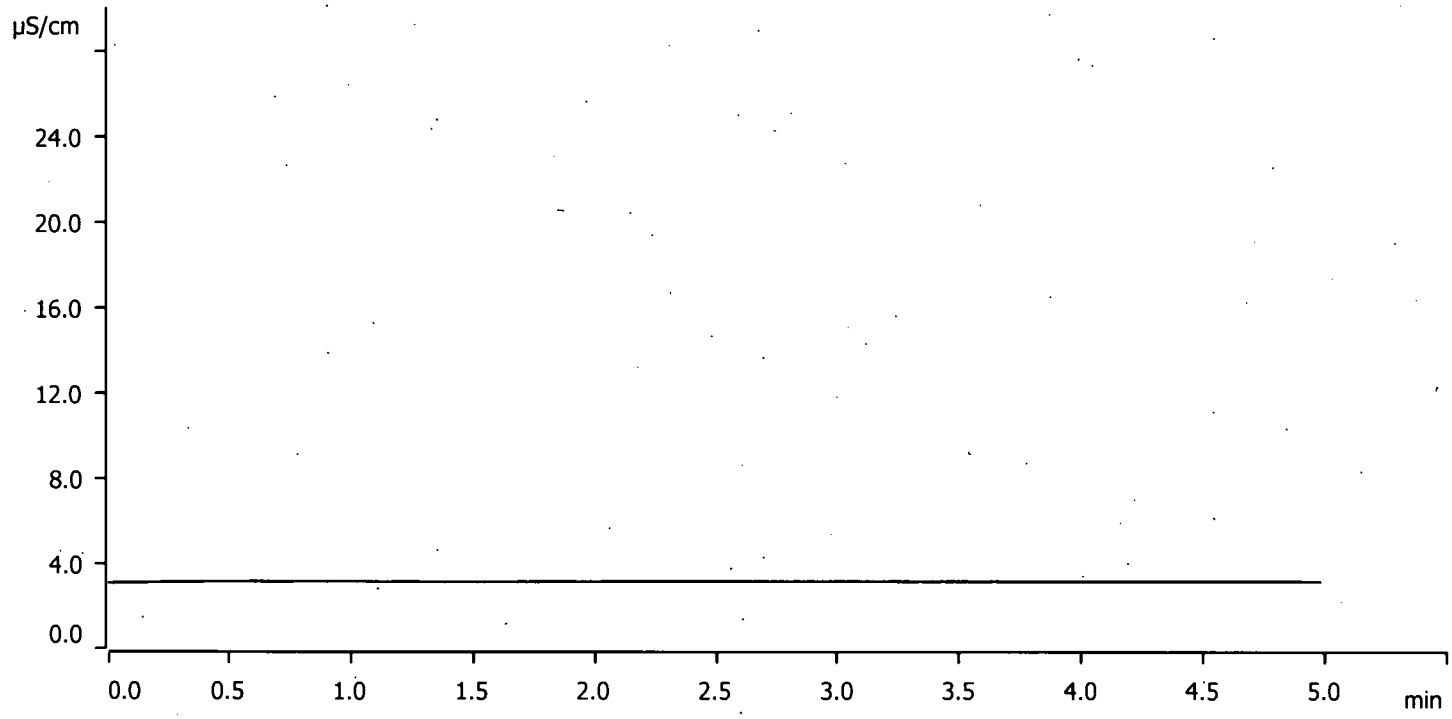
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.338	2.015	Fluoride	BB
2	1.92	0.400	4.125	Chloride	BB
3	2.22	0.478	2.066	Nitrite	BB
4	2.56	0.064	1.922	Bromide	BB
5	2.82	0.477	1.966	Nitrate	BB
6	4.30	0.268	4.011	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-15 15:26:29 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92362
Sample Position	72
Comment 1	300.0/9056A
Comment 2	

Anions



ALS Environmental

1575 Jefferson Road, Building 300, Suite 360, Rochester, New York 14623

Ion Chromatography Cover Sheet

Instrument: **Metrohm IC 930 (IC#10)**

Column: **Dionex IonPac AS22-Fast (Installed 07/25/2024)**

Curve Date: 09/12/24 **Loop size: 25 uL Loop**

Analyst: KW|KAW **Analysis Date:** 9-15-24

Balance ID for Soil Preparation: N|A

Is copy of LCS attached to run? (YES) NO

Method Filename: 10-091224FAST

Standards Prep Dates & Log ID's:

Std Type	*Prep Date*	*Log ID*		*Std Type*	*Prep Date*	*Log ID*
Calibration Intermediate	08/09/2024	236789		Working Calibration Stds	09/12/2024	WC236014B
LCS / MS Intermediate	08/09/2024	236789		Working LCS/MS Standard	09/15/2024	WC236098K
ICV Intermediate	08/09/2024	236787		Working ICV Standard	09/12/2024	WC236040I
CCV Intermediate	08/09/2024	236787		Working CCV Standard	09/15/2024	WC236040K

Original Retention Times for this method are based on Standard 6 and are as follows:

Fluoride: 1.44	Bromide: 2.56
Chloride: 1.91	Nitrate: 2.82
Nitrite: 2.22	Sulfate: 4.27

Additional Comments: Column Serial Number: 240212573
Linear Range Verification (High Standard) Analyzed: 03/09/2024 – Due Every Six Months

Pipets: Chrome, Bottom
Disposable Pipet ID: (Fisher) 26023005

Eluent Stock (100x): 235121
Suppressor Stock (5x): 235047

ICV / CCV PREP

(A 1:1 dilution of the Reference Intermediate Stock is done daily.)

Analyte	ICV / CCV Intermediate Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst / Date Prepped	Lot ID	Exp. Date	Matrix H_2SO_4 / NaOH / DI	H_2SO_4 / NaOH Lot #
F	236787	4.00	5.0	10.0	2.00	KW 9/3/24	A	9/4/24	DI	—
Cl		8.00			4.00	KW 9/4/24	B	9/5/24	DI	—
NO_2		4.00			2.00	KW 9/5/24	C	9/6/24	DI	—
Br		4.00			2.00	KW 9/6/24	D	9/7/24	DI	—
NO_3		4.00			2.00	KW 9/7/24	E	9/8/24	DI	—
OPO_4		4.00			2.00	KW 9/9/24	F	9/10/24	DI	—
SO_4		8.00			4.00	KW 9/10/24	G	9/11/24	DI	—
						KW 9/11/24	H	9/12/24	DI	—
						KW 9/12/24	I	9/13/24	DI	—
						KW 9/14/24	J	9/15/24	DI	—
						KW 9/15/24	K	9/16/24	DI	—
						KW 9/16/24	L	9/17/24	DI	—
							M			
							N			
							O			
							P			
							Q			
							R			

LCS Prep

(Stocks delivered using volumetric glassware and brought to volume with DI. LCS expires after 7 days; if NO_2 is needed, LCS must be prepared daily.)

(MS prepared fresh daily using same volume of intermediate stock added to 100mLs sample. MS not prepared volumetrically.)

Analyte	Calibration Intermediate Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst / Date Prepped	Lot ID	Exp. Date	Matrix H_2SO_4 / NaOH / DI	H_2SO_4 / NaOH Lot #
F	236789	50	2.0	200	1.0	KW 9/3/24	A	9/10/24	DI	—
Cl		100			2.0	KW 9/4/24	B	9/11/24	DI	—
NO_2		50			1.0	KW 9/5/24	C	9/12/24	DI	—
Br		50			1.0	KW 9/6/24	D	9/13/24	DI	
NO_3		50			1.0	KW 9/7/24	E	9/14/24	DI	—
OPO_4		50			1.0	KW 9/9/24	F	9/15/24	DI	—
SO_4		100			2.0	KW 9/10/24	G	9/17/24	DI	—
						KW 9/11/24	H	9/18/24	DI	—
						KW 9/12/24	I	9/19/24	DI	—
						KW 9/14/24	J	9/21/24	DI	—
						KW 9/15/24	K	9/22/24	DI	—
						KW 9/16/24	L	9/23/24	DI	—
							M			
							N			
							O			
							P			
							Q			
							R			

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 854121 **Method/Testcode:** 300.0/Chloride

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2411717-01	Chloride	CCV		Water	4.11 mg/L	10 mL	4.11 mg/L	1					9/15/24 17:24	N	IV
KQ2411717-01	Sulfate	CCV		Water	4.05 mg/L	10 mL	4.05 mg/L	1					9/15/24 17:24	N	IV
KQ2411717-02	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 17:30	N	IV
KQ2411717-02	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 17:30	N	IV
KQ2411717-03	Chloride	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 17:30	N	IV
KQ2411717-03	Sulfate	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 17:30	N	IV
KQ2411717-04	Chloride	LCS		Water	2.02 mg/L	10 mL	2.02 mg/L	1	0.05	0.20	101		9/15/24 17:37	N	IV
KQ2411717-04	Sulfate	LCS		Water	2.01 mg/L	10 mL	2.01 mg/L	1	0.04	0.20	101		9/15/24 17:37	N	IV
K2409013-001	Chloride	N/A		Water	280.96 mg/L	10 mL	281 mg/L	50	3	10			9/15/24 17:48	N	IV
K2409013-003	Chloride	N/A		Water	58.06 mg/L	10 mL	58.1 mg/L	10	0.5	2.0			9/15/24 17:54	N	IV
K2409013-006	Chloride	N/A		Water	64.92 mg/L	10 mL	64.9 mg/L	10	0.5	2.0			9/15/24 18:00	N	IV
K2408139-007	Sulfate	N/A		Water	200.90 mg/L	10 mL	201 mg/L	40	1.6	8.0			9/15/24 18:07	N	IV
K2408140-011	Sulfate	N/A		Water	264.39 mg/L	10 mL	264 mg/L	40	1.6	8.0			9/15/24 18:13	N	IV
K2408253-015	Chloride	N/A		Water	3.11 mg/L	10 mL	3.1 mg/L	10	0.5	2.0			9/15/24 18:19	N	IV
KQ2411717-09	Chloride	MS	R2408253-015	Water	22.36 mg/L	10 mL	22.4 mg/L	10	0.5	2.0	96		9/15/24 18:25	N	IV
KQ2411717-10	Chloride	DMS	R2408253-015	Water	22.53 mg/L	10 mL	22.5 mg/L	10	0.5	2.0	97	<1	9/15/24 18:32	N	IV
K2408253-017	Chloride	N/A		Water	2.30 mg/L	10 mL	2.3 mg/L	10	0.5	2.0			9/15/24 18:38	N	IV
KQ2411717-05	Chloride	CCV		Water	4.13 mg/L	10 mL	4.13 mg/L	1					9/15/24 18:44	N	IV
KQ2411717-05	Sulfate	CCV		Water	4.01 mg/L	10 mL	4.01 mg/L	1					9/15/24 18:44	N	IV
KQ2411717-06	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 18:50	N	IV
KQ2411717-06	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 18:50	N	IV
K2408253-019	Chloride	N/A		Water	1.71 mg/L	10 mL	2.0 mg/L U	10	0.5	2.0			9/15/24 19:26	N	IV
K2408253-021	Chloride	N/A		Water	2.27 mg/L	10 mL	2.3 mg/L	10	0.5	2.0			9/15/24 19:32	N	IV
K2408253-023	Chloride	N/A		Water	2.39 mg/L	10 mL	2.4 mg/L	10	0.5	2.0			9/15/24 19:39	N	IV
K2408253-027	Chloride	N/A		Water	1.96 mg/L	10 mL	2.0 mg/L U	10	0.5	2.0			9/15/24 19:45	N	IV
K2408253-029	Chloride	N/A		Water	27.30 mg/L	10 mL	27.3 mg/L	10	0.5	2.0			9/15/24 19:51	N	IV
K2408253-031	Chloride	N/A		Water	15.32 mg/L	10 mL	15.3 mg/L	10	0.5	2.0			9/15/24 19:58	N	IV
K2408254-013	Chloride	N/A		Water	11.27 mg/L	10 mL	11.3 mg/L	10	0.5	2.0			9/15/24 20:04	N	IV
KQ2411717-11	Chloride	MS	R2408254-013	Water	30.53 mg/L	10 mL	30.5 mg/L	10	0.5	2.0	96		9/15/24 20:11	N	IV
KQ2411717-12	Chloride	DMS	R2408254-013	Water	30.33 mg/L	10 mL	30.3 mg/L	10	0.5	2.0	95	<1	9/15/24 20:17	N	IV
K2408254-015	Chloride	N/A		Water	19.65 mg/L	10 mL	19.6 mg/L	10	0.5	2.0			9/15/24 20:24	N	IV
KQ2411717-08	Chloride	CCV		Water	4.10 mg/L	10 mL	4.10 mg/L	1					9/15/24 20:31	N	IV
KQ2411717-08	Sulfate	CCV		Water	3.97 mg/L	10 mL	3.97 mg/L	1					9/15/24 20:31	N	IV
KQ2411717-07	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 20:38	N	IV
KQ2411717-07	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 20:38	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 854122 **Method/Testcode:** 300.0/Chloride

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2411718-01	Chloride	CCV		Water	4.10 mg/L	10 mL	4.10 mg/L	1					9/15/24 20:31	N	IV
KQ2411718-02	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 20:38	N	IV
KQ2411718-03	Chloride	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 20:38	N	IV
KQ2411718-04	Chloride	LCS		Water	2.03 mg/L	10 mL	2.03 mg/L	1	0.05	0.20	101		9/15/24 20:46	N	IV
K2408254-017	Chloride	N/A		Water	20.31 mg/L	10 mL	20.3 mg/L	10	0.5	2.0			9/15/24 20:54	N	IV
K2408254-019	Chloride	N/A		Water	22.91 mg/L	10 mL	22.9 mg/L	10	0.5	2.0			9/15/24 21:00	N	IV
K2408254-021	Chloride	N/A		Water	14.84 mg/L	10 mL	14.8 mg/L	10	0.5	2.0			9/15/24 21:06	N	IV
K2408253-025	Chloride	N/A		Water	4.08 mg/L	10 mL	4.1 mg/L	10	0.5	2.0			9/15/24 21:12	N	IV
K2408253-033	Chloride	N/A		Water	15.08 mg/L	10 mL	15.1 mg/L	10	0.5	2.0			9/15/24 21:19	N	IV
K2408253-035	Chloride	N/A		Water	9.28 mg/L	10 mL	9.3 mg/L	10	0.5	2.0			9/15/24 21:25	N	IV
KQ2411718-09	Chloride	MS	R2408253-035	Water	28.50 mg/L	10 mL	28.5 mg/L	10	0.5	2.0	96		9/15/24 21:31	N	IV
KQ2411718-10	Chloride	DMS	R2408253-035	Water	28.41 mg/L	10 mL	28.4 mg/L	10	0.5	2.0	96	<1	9/15/24 21:37	N	IV
K2408253-037	Chloride	N/A		Water	0.67 mg/L	10 mL	2.0 mg/L U	10	0.5	2.0			9/15/24 21:44	N	IV
KQ2411718-05	Chloride	CCV		Water	4.14 mg/L	10 mL	4.14 mg/L	1					9/15/24 21:50	N	IV
KQ2411718-06	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 21:56	N	IV
K2408253-039	Chloride	N/A		Water	12.07 mg/L	10 mL	12.1 mg/L	10	0.5	2.0			9/15/24 22:02	N	IV
K2408254-023	Chloride	N/A		Water	19.61 mg/L	10 mL	19.6 mg/L	10	0.5	2.0			9/15/24 22:09	N	IV
K2408254-025	Chloride	N/A		Water	11.23 mg/L	10 mL	11.2 mg/L	10	0.5	2.0			9/15/24 22:15	N	IV
K2408254-027	Chloride	N/A		Water	6.01 mg/L	10 mL	6.0 mg/L	10	0.5	2.0			9/15/24 22:21	N	IV
K2408254-029	Chloride	N/A		Water	24.53 mg/L	10 mL	24.5 mg/L	10	0.5	2.0			9/15/24 22:27	N	IV
K2408254-031	Chloride	N/A		Water	3.82 mg/L	10 mL	3.8 mg/L	10	0.5	2.0			9/15/24 22:34	N	IV
K2408254-033	Chloride	N/A		Water	10.47 mg/L	10 mL	10.5 mg/L	10	0.5	2.0			9/15/24 22:40	N	IV
KQ2411718-11	Chloride	MS	R2408254-033	Water	29.69 mg/L	10 mL	29.7 mg/L	10	0.5	2.0	96		9/15/24 22:46	N	IV
KQ2411718-12	Chloride	DMS	R2408254-033	Water	29.74 mg/L	10 mL	29.7 mg/L	10	0.5	2.0	96	<1	9/15/24 22:53	N	IV
K2408254-035	Chloride	N/A		Water	12.96 mg/L	10 mL	13.0 mg/L	10	0.5	2.0			9/15/24 22:59	N	IV
KQ2411718-08	Chloride	CCV		Water	4.13 mg/L	10 mL	4.13 mg/L	1					9/15/24 23:05	N	IV
KQ2411718-07	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 23:11	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 854123 **Method/Testcode:** 300.0/Chloride

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2411719-01	Chloride	CCV		Water	4.13 mg/L	10 mL	4.13 mg/L	1					9/15/24 23:05	N	IV
KQ2411719-02	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 23:11	N	IV
KQ2411719-03	Chloride	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 23:11	N	IV
KQ2411719-04	Chloride	LCS		Water	2.03 mg/L	10 mL	2.03 mg/L	1	0.05	0.20	101		9/15/24 23:18	N	IV
K2408254-037	Chloride	N/A		Water	23.82 mg/L	10 mL	23.8 mg/L	10	0.5	2.0			9/15/24 23:24	N	IV
K2408254-039	Chloride	N/A		Water	15.75 mg/L	10 mL	15.7 mg/L	10	0.5	2.0			9/15/24 23:30	N	IV
K2408253-001	Chloride	N/A		Water	12.63 mg/L	10 mL	12.6 mg/L	10	0.5	2.0			9/15/24 23:36	Y	IV
KQ2411719-09	Chloride	MS	R2408253-001	Water	31.76 mg/L	10 mL	31.8 mg/L	10	0.5	2.0	96		9/15/24 23:43	N	IV
KQ2411719-10	Chloride	DMS	R2408253-001	Water	31.76 mg/L	10 mL	31.8 mg/L	10	0.5	2.0	96	<1	9/15/24 23:49	N	IV
K2408253-003	Chloride	N/A		Water	76.10 mg/L	10 mL	76.1 mg/L	10	0.5	2.0			9/15/24 23:55	N	IV
K2408253-005	Chloride	N/A		Water	7.30 mg/L	10 mL	7.3 mg/L	10	0.5	2.0			9/16/24 00:01	N	IV
K2408253-007	Chloride	N/A		Water	11.63 mg/L	10 mL	11.6 mg/L	10	0.5	2.0			9/16/24 00:08	N	IV
K2408253-009	Chloride	N/A		Water	69.10 mg/L	10 mL	69.1 mg/L	10	0.5	2.0			9/16/24 00:14	N	IV
KQ2411719-05	Chloride	CCV		Water	4.15 mg/L	10 mL	4.15 mg/L	1					9/16/24 00:20	N	IV
KQ2411719-06	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/16/24 00:26	N	IV
K2408253-011	Chloride	N/A		Water	21.48 mg/L	10 mL	21.5 mg/L	10	0.5	2.0			9/16/24 00:33	N	IV
K2408253-013	Chloride	N/A		Water	0.00 mg/L	10 mL	2.0 mg/L U	10	0.5	2.0			9/16/24 00:39	N	IV
K2408254-001	Chloride	N/A		Water	16.19 mg/L	10 mL	16.2 mg/L	10	0.5	2.0			9/16/24 00:45	N	IV
K2408254-003	Chloride	N/A		Water	23.80 mg/L	10 mL	23.8 mg/L	10	0.5	2.0			9/16/24 00:51	N	IV
K2408254-005	Chloride	N/A		Water	15.22 mg/L	10 mL	15.2 mg/L	10	0.5	2.0			9/16/24 00:58	N	IV
K2408254-007	Chloride	N/A		Water	17.79 mg/L	10 mL	17.8 mg/L	10	0.5	2.0			9/16/24 01:04	N	IV
K2408254-009	Chloride	N/A		Water	13.64 mg/L	10 mL	13.6 mg/L	10	0.5	2.0			9/16/24 01:10	Y	IV
KQ2411719-11	Chloride	MS	R2408254-009	Water	32.73 mg/L	10 mL	32.7 mg/L	10	0.5	2.0	95		9/16/24 01:16	N	IV
KQ2411719-12	Chloride	DMS	R2408254-009	Water	32.88 mg/L	10 mL	32.9 mg/L	10	0.5	2.0	96	<1	9/16/24 01:23	N	IV
K2408254-011	Chloride	N/A		Water	0.00 mg/L	10 mL	2.0 mg/L U	10	0.5	2.0			9/16/24 01:29	N	IV
KQ2411719-08	Chloride	CCV		Water	4.13 mg/L	10 mL	4.13 mg/L	1					9/16/24 01:35	N	IV
KQ2411719-07	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/16/24 01:41	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 854124 **Method/Testcode:** 300.0/Chloride

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ2411720-01	Chloride	CCV		Water	4.13 mg/L	10 mL	4.13 mg/L	1					9/16/24 01:35	N	IV
RQ2411720-01	Fluoride, undistilled	CCV		Water	2.05 mg/L	10 mL	2.05 mg/L	1					9/16/24 01:35	N	IV
RQ2411720-01	Sulfate	CCV		Water	4.07 mg/L	10 mL	4.07 mg/L	1					9/16/24 01:35	N	IV
RQ2411720-02	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/16/24 01:41	N	IV
RQ2411720-02	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			9/16/24 01:41	N	IV
RQ2411720-02	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/16/24 01:41	N	IV
RQ2411720-03	Chloride	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/16/24 01:41	N	IV
RQ2411720-03	Fluoride, undistilled	MB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			9/16/24 01:41	N	IV
RQ2411720-03	Sulfate	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/16/24 01:41	N	IV
RQ2411720-04	Chloride	LCS		Water	2.04 mg/L	10 mL	2.04 mg/L	1	0.05	0.20	102		9/16/24 01:48	N	IV
RQ2411720-04	Fluoride, undistilled	LCS		Water	1.04 mg/L	10 mL	1.04 mg/L	1	0.010	0.10	104		9/16/24 01:48	N	IV
RQ2411720-04	Sulfate	LCS		Water	2.08 mg/L	10 mL	2.08 mg/L	1	0.04	0.20	104		9/16/24 01:48	N	IV
R2408259-001	Fluoride, undistilled	N/A		Water	0.06 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			9/16/24 01:54	N	IV
R2408259-001	Chloride	N/A		Water	12.33 mg/L	10 mL	12.3 mg/L	10	0.5	2.0			9/16/24 02:00	N	IV
R2408259-003	Fluoride, undistilled	N/A		Water	0.07 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			9/16/24 02:06	N	IV
R2408259-003	Sulfate	N/A		Water	7.33 mg/L	10 mL	7.33 mg/L	1	0.04	0.20			9/16/24 02:06	N	IV
R2408259-003	Chloride	N/A		Water	33.88 mg/L	10 mL	33.9 mg/L	10	0.5	2.0			9/16/24 02:13	N	IV
R2408259-005	Fluoride, undistilled	N/A		Water	0.08 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			9/16/24 02:19	N	IV
R2408259-005	Sulfate	N/A		Water	8.03 mg/L	10 mL	8.03 mg/L	1	0.04	0.20			9/16/24 02:19	N	IV
R2408259-005	Chloride	N/A		Water	54.08 mg/L	10 mL	54.1 mg/L	10	0.5	2.0			9/16/24 02:25	N	IV
R2408259-007	Fluoride, undistilled	N/A		Water	0.08 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			9/16/24 02:31	N	IV
R2408259-007	Sulfate	N/A		Water	9.10 mg/L	10 mL	9.10 mg/L	1	0.04	0.20			9/16/24 02:31	N	IV
R2408259-007	Chloride	N/A		Water	55.19 mg/L	10 mL	55.2 mg/L	10	0.5	2.0			9/16/24 02:38	N	IV
R2408337-001	Chloride	N/A		Water	3.30 mg/L	10 mL	3.3 mg/L	10	0.5	2.0			9/16/24 02:44	N	IV
R2408337-001	Sulfate	N/A		Water	3.15 mg/L	10 mL	3.2 mg/L	10	0.4	2.0			9/16/24 02:44	N	IV
RQ2411720-05	Chloride	CCV		Water	4.16 mg/L	10 mL	4.16 mg/L	1					9/16/24 02:50	N	IV
RQ2411720-05	Fluoride, undistilled	CCV		Water	2.03 mg/L	10 mL	2.03 mg/L	1					9/16/24 02:50	N	IV
RQ2411720-05	Sulfate	CCV		Water	4.04 mg/L	10 mL	4.04 mg/L	1					9/16/24 02:50	N	IV
RQ2411720-06	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/16/24 02:56	N	IV
RQ2411720-06	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			9/16/24 02:56	N	IV
RQ2411720-06	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/16/24 02:56	N	IV
R2408337-003	Chloride	N/A		Water	3.85 mg/L	10 mL	3.9 mg/L	10	0.5	2.0			9/16/24 03:03	N	IV
R2408337-003	Sulfate	N/A		Water	3.37 mg/L	10 mL	3.4 mg/L	10	0.4	2.0			9/16/24 03:03	N	IV
RQ2411720-09	Chloride	MS	R2408337-003	Water	23.31 mg/L	10 mL	23.3 mg/L	10	0.5	2.0	97		9/16/24 03:09	N	IV
RQ2411720-09	Sulfate	MS	R2408337-003	Water	22.85 mg/L	10 mL	22.8 mg/L	10	0.4	2.0	97		9/16/24 03:09	N	IV
RQ2411720-10	Chloride	DMS	R2408337-003	Water	23.44 mg/L	10 mL	23.4 mg/L	10	0.5	2.0	98	<1	9/16/24 03:15	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 854124 **Method/Testcode:** 300.0/SO4

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2411720-10	Sulfate	DMS	R2408337-003	Water	22.91 mg/L	10 mL	22.9 mg/L	10	0.4	2.0	98	<1	9/16/24 03:15	N	IV
K2408337-005	Chloride	N/A		Water	0.70 mg/L	10 mL	2.0 mg/L U	10	0.5	2.0			9/16/24 03:21	Y	IV
K2408337-005	Sulfate	N/A		Water	0.99 mg/L	10 mL	2.0 mg/L U	10	0.4	2.0			9/16/24 03:21	Y	IV
KQ2411720-11	Chloride	MS	R2408337-005	Water	20.16 mg/L	10 mL	20.2 mg/L	10	0.5	2.0	101		9/16/24 03:28	N	IV
KQ2411720-11	Sulfate	MS	R2408337-005	Water	20.63 mg/L	10 mL	20.6 mg/L	10	0.4	2.0	103		9/16/24 03:28	N	IV
KQ2411720-12	Chloride	DMS	R2408337-005	Water	20.28 mg/L	10 mL	20.3 mg/L	10	0.5	2.0	101	<1	9/16/24 03:34	N	IV
KQ2411720-12	Sulfate	DMS	R2408337-005	Water	20.73 mg/L	10 mL	20.7 mg/L	10	0.4	2.0	104	<1	9/16/24 03:34	N	IV
K2408341-001	Fluoride, undistilled	N/A		Water	0.07 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			9/16/24 03:40	N	IV
K2408341-001	Sulfate	N/A		Water	5.12 mg/L	10 mL	5.12 mg/L	1	0.04	0.20			9/16/24 03:40	N	IV
K2408341-001	Chloride	N/A		Water	10.59 mg/L	10 mL	10.6 mg/L	10	0.5	2.0			9/16/24 03:46	N	IV
K2408341-003	Fluoride, undistilled	N/A		Water	0.10 mg/L	10 mL	0.10 mg/L	1	0.010	0.10			9/16/24 03:53	N	IV
K2408341-003	Sulfate	N/A		Water	5.84 mg/L	10 mL	5.84 mg/L	1	0.04	0.20			9/16/24 03:53	N	IV
K2408341-003	Chloride	N/A		Water	27.05 mg/L	10 mL	27.0 mg/L	10	0.5	2.0			9/16/24 03:59	N	IV
KQ2411720-08	Chloride	CCV		Water	4.16 mg/L	10 mL	4.16 mg/L	1					9/16/24 04:05	N	IV
KQ2411720-08	Fluoride, undistilled	CCV		Water	2.03 mg/L	10 mL	2.03 mg/L	1					9/16/24 04:05	N	IV
KQ2411720-08	Sulfate	CCV		Water	4.03 mg/L	10 mL	4.03 mg/L	1					9/16/24 04:05	N	IV
KQ2411720-07	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/16/24 04:11	N	IV
KQ2411720-07	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			9/16/24 04:11	N	IV
KQ2411720-07	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/16/24 04:11	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Determination overview

IC10 pipette: Chrome/Bottom 300.0/9056A 091524 KL

	Method name	Determination start	Position	Ident	Dilution	Info 1	Info 2
1	10-091224FAST	2024-09-15 17:24:40 UTC-4	1	CCV	1	300.0/9056A	
2	10-091224FAST	2024-09-15 17:30:57 UTC-4	2	CCB	1	300.0/9056A	854121
3	10-091224FAST	2024-09-15 17:37:11 UTC-4	3	LCS	1	300.0/9056A	
4	10-091224FAST	2024-09-15 17:48:15 UTC-4	4	R2409013-001	50	300.0 C	
5	10-091224FAST	2024-09-15 17:54:33 UTC-4	5	R2409013-003	10	300.0 C	
6	10-091224FAST	2024-09-15 18:00:49 UTC-4	6	R2409013-006	10	300.0 C	
7	10-091224FAST	2024-09-15 18:07:04 UTC-4	7	R2408139-007	40	300.0 S	
8	10-091224FAST	2024-09-15 18:13:20 UTC-4	8	R2408140-011	40	300.0 S	
9	10-091224FAST	2024-09-15 18:19:35 UTC-4	9	R2408253-015	10	300.0 C	
10	10-091224FAST	2024-09-15 18:25:51 UTC-4	10	R2408253-015 MS	10	300.0 C	
11	10-091224FAST	2024-09-15 18:32:07 UTC-4	11	R2408253-015 MSD	10	300.0 C	
12	10-091224FAST	2024-09-15 18:38:22 UTC-4	12	R2408253-017	10	300.0 C	
13	10-091224FAST	2024-09-15 18:44:38 UTC-4	13	CCV	1	300.0/9056A	
14	10-091224FAST	2024-09-15 18:50:54 UTC-4	14	CCB	1	300.0/9056A	
15	10-091224FAST	2024-09-15 19:26:34 UTC-4	15	R2408253-019	10	300.0 C	
16	10-091224FAST	2024-09-15 19:32:50 UTC-4	16	R2408253-021	10	300.0 C	
17	10-091224FAST	2024-09-15 19:39:23 UTC-4	17	R2408253-023	10	300.0 C	
18	10-091224FAST	2024-09-15 19:45:38 UTC-4	18	R2408253-027	10	300.0 C	
19	10-091224FAST	2024-09-15 19:51:54 UTC-4	19	R2408253-029	10	300.0 C	
20	10-091224FAST	2024-09-15 19:58:09 UTC-4	20	R2408253-031	10	300.0 C	
21	10-091224FAST	2024-09-15 20:04:23 UTC-4	21	R2408254-013	10	300.0 C	
22	10-091224FAST	2024-09-15 20:11:00 UTC-4	22	R2408254-013 MS	10	300.0 C	
23	10-091224FAST	2024-09-15 20:17:16 UTC-4	23	R2408254-013 MSD	10	300.0 C	
24	10-091224FAST	2024-09-15 20:24:51 UTC-4	24	R2408254-015	10	300.0 C	
25	10-091224FAST	2024-09-15 20:31:06 UTC-4	25	CCV	1	300.0/9056A	
26	10-091224FAST	2024-09-15 20:38:21 UTC-4	26	CCB	1	300.0/9056A	
27	10-091224FAST	2024-09-15 20:46:30 UTC-4	27	LCS	1	300.0/9056A	854122
28	10-091224FAST	2024-09-15 20:54:12 UTC-4	28	R2408254-017	10	300.0 C	
29	10-091224FAST	2024-09-15 21:00:28 UTC-4	29	R2408254-019	10	300.0 C	
30	10-091224FAST	2024-09-15 21:06:43 UTC-4	30	R2408254-021	10	300.0 C	
31	10-091224FAST	2024-09-15 21:12:58 UTC-4	31	R2408253-025	10	300.0 C	
32	10-091224FAST	2024-09-15 21:19:13 UTC-4	32	R2408253-033	10	300.0 C	
33	10-091224FAST	2024-09-15 21:25:27 UTC-4	33	R2408253-035	10	300.0 C	
34	10-091224FAST	2024-09-15 21:31:42 UTC-4	34	R2408253-035 MS	10	300.0 C	
35	10-091224FAST	2024-09-15 21:37:57 UTC-4	35	R2408253-035 MSD	10	300.0 C	
36	10-091224FAST	2024-09-15 21:44:13 UTC-4	36	R2408253-037	10	300.0 C	
37	10-091224FAST	2024-09-15 21:50:28 UTC-4	37	CCV	1	300.0/9056A	
38	10-091224FAST	2024-09-15 21:56:44 UTC-4	38	CCB	1	300.0/9056A	
39	10-091224FAST	2024-09-15 22:02:58 UTC-4	39	R2408253-039	10	300.0 C	
40	10-091224FAST	2024-09-15 22:09:13 UTC-4	40	R2408254-023	10	300.0 C	
41	10-091224FAST	2024-09-15 22:15:28 UTC-4	41	R2408254-025	10	300.0 C	
42	10-091224FAST	2024-09-15 22:21:42 UTC-4	42	R2408254-027	10	300.0 C	
43	10-091224FAST	2024-09-15 22:27:57 UTC-4	43	R2408254-029	10	300.0 C	
44	10-091224FAST	2024-09-15 22:34:12 UTC-4	44	R2408254-031	10	300.0 C	
45	10-091224FAST	2024-09-15 22:40:26 UTC-4	45	R2408254-033	10	300.0 C	
46	10-091224FAST	2024-09-15 22:46:45 UTC-4	46	R2408254-033 MS	10	300.0 C	
47	10-091224FAST	2024-09-15 22:53:00 UTC-4	47	R2408254-033 MSD	10	300.0 C	
48	10-091224FAST	2024-09-15 22:59:16 UTC-4	48	R2408254-035	10	300.0 C	
49	10-091224FAST	2024-09-15 23:05:31 UTC-4	49	CCV	1	300.0/9056A	
50	10-091224FAST	2024-09-15 23:11:47 UTC-4	50	CCB	1	300.0/9056A	
51	10-091224FAST	2024-09-15 23:18:02 UTC-4	51	LCS	1	300.0/9056A	854123
52	10-091224FAST	2024-09-15 23:24:18 UTC-4	52	R2408254-037	10	300.0 C	
53	10-091224FAST	2024-09-15 23:30:32 UTC-4	53	R2408254-039	10	300.0 C	
54	10-091224FAST	2024-09-15 23:36:47 UTC-4	54	R2408253-001	10	300.0 C	
55	10-091224FAST	2024-09-15 23:43:02 UTC-4	55	R2408253-001 MS!	10	300.0 C	
56	10-091224FAST	2024-09-15 23:49:17 UTC-4	56	R2408253-001 MSD!	10	300.0 C	
57	10-091224FAST	2024-09-15 23:55:32 UTC-4	57	R2408253-003	10	300.0 C	
58	10-091224FAST	2024-09-16 00:01:47 UTC-4	58	R2408253-005	10	300.0 C	
59	10-091224FAST	2024-09-16 00:08:02 UTC-4	59	R2408253-007	10	300.0 C	
60	10-091224FAST	2024-09-16 00:14:16 UTC-4	60	R2408253-009	10	300.0 C	
61	10-091224FAST	2024-09-16 00:20:31 UTC-4	61	CCV	1	300.0/9056A	
62	10-091224FAST	2024-09-16 00:26:47 UTC-4	62	CCB	1	300.0/9056A	
63	10-091224FAST	2024-09-16 00:33:03 UTC-4	63	R2408253-011	10	300.0 C	

Determination overview

	Method name	Determination start	Position	Ident	Dilution	Info 1	Info 2
64	10-091224FAST	2024-09-16 00:39:18 UTC-4	64	R2408253-013	10	300.0 C	
65	10-091224FAST	2024-09-16 00:45:32 UTC-4	65	R2408254-001	10	300.0 C	
66	10-091224FAST	2024-09-16 00:51:47 UTC-4	66	R2408254-003	10	300.0 C	
67	10-091224FAST	2024-09-16 00:58:01 UTC-4	67	R2408254-005	10	300.0 C	
68	10-091224FAST	2024-09-16 01:04:16 UTC-4	68	R2408254-007	10	300.0 C	
69	10-091224FAST	2024-09-16 01:10:30 UTC-4	69	R2408254-009	10	300.0 C	
70	10-091224FAST	2024-09-16 01:16:45 UTC-4	70	R2408254-009 MS!	10	300.0 C	
71	10-091224FAST	2024-09-16 01:23:01 UTC-4	71	R2408254-009 MSD!	10	300.0 C	
72	10-091224FAST	2024-09-16 01:29:16 UTC-4	72	R2408254-011	10	300.0 C	
73	10-091224FAST	2024-09-16 01:35:30 UTC-4	73	CCV	1	300.0/9056A	
74	10-091224FAST	2024-09-16 01:41:46 UTC-4	74	CCB	1	300.0/9056A	
75	10-091224FAST	2024-09-16 01:48:01 UTC-4	75	LCS	1	300.0/9056A	854124
76	10-091224FAST	2024-09-16 01:54:17 UTC-4	76	R2408259-001	1	300.0 FS	
77	10-091224FAST	2024-09-16 02:00:32 UTC-4	77	R2408259-001	10	300.0 C	
78	10-091224FAST	2024-09-16 02:06:47 UTC-4	78	R2408259-003	1	300.0 FS	
79	10-091224FAST	2024-09-16 02:13:02 UTC-4	79	R2408259-003	10	300.0 C	
80	10-091224FAST	2024-09-16 02:19:17 UTC-4	80	R2408259-005	1	300.0 FS	
81	10-091224FAST	2024-09-16 02:25:32 UTC-4	81	R2408259-005	10	300.0 C	
82	10-091224FAST	2024-09-16 02:31:47 UTC-4	82	R2408259-007	1	300.0 FS	
83	10-091224FAST	2024-09-16 02:38:03 UTC-4	83	R2408259-007	10	300.0 C	
84	10-091224FAST	2024-09-16 02:44:17 UTC-4	84	R2408337-001	10	300.0 CS	
85	10-091224FAST	2024-09-16 02:50:36 UTC-4	85	CCV	1	300.0/9056A	
86	10-091224FAST	2024-09-16 02:56:52 UTC-4	86	CCB	1	300.0/9056A	
87	10-091224FAST	2024-09-16 03:03:06 UTC-4	87	R2408337-003	10	300.0 CS	
88	10-091224FAST	2024-09-16 03:09:21 UTC-4	88	R2408337-003 MS	10	300.0 CS	
89	10-091224FAST	2024-09-16 03:15:36 UTC-4	89	R2408337-003 MSD	10	300.0 CS	
90	10-091224FAST	2024-09-16 03:21:51 UTC-4	90	R2408337-005	10	300.0 CS	
91	10-091224FAST	2024-09-16 03:28:06 UTC-4	91	R2408337-005 MS!	10	300.0 CS	
92	10-091224FAST	2024-09-16 03:34:22 UTC-4	92	R2408337-005 MSD!	10	300.0 CS	
93	10-091224FAST	2024-09-16 03:40:37 UTC-4	93	R2408341-001	1	300.0 FS	
94	10-091224FAST	2024-09-16 03:46:52 UTC-4	94	R2408341-001	10	300.0 C	
95	10-091224FAST	2024-09-16 03:53:07 UTC-4	95	R2408341-003	1	300.0 FS	
96	10-091224FAST	2024-09-16 03:59:22 UTC-4	96	R2408341-003	10	300.0 C	
97	10-091224FAST	2024-09-16 04:05:37 UTC-4	97	CCV	1	300.0/9056A	
98	10-091224FAST	2024-09-16 04:11:53 UTC-4	98	CCB	1	300.0/9056A	

Sample Dilutions

Final Volume: 8-10mL - IC#3,10

Analyst: KW / KAW
Instrument: IC#10

Date 9-15-24
Analysis 300.0 / 9056A

Common Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor
1/2	DI	4.5	4.5	1/2												
1/3	DI	3	6	1/3												
1/4	DI	2	6	1/4												
1/5	DI	2	8	1/5												
1/10	DI	1	9	1/10												
1/20	DI	3	3	1/2	1	9	1/20									
1/30	DI	3	6	1/3	1	9	1/30									
1/40	DI	1	3	1/4	1	9	1/40									
1/50	DI	1	4	1/5	1	9	1/50									
1/100	DI	1	9	1/10	1	9	1/100									
1/200	DI	3	3	1/2	1	9	1/20	1	9	1/200						
1/300	DI	3	6	1/3	1	9	1/30	1	9	1/300						
1/400	DI	1	3	1/4	1	9	1/40	1	9	1/400						
1/500	DI	1	4	1/5	1	9	1/50	1	9	1/500						
1/1000	DI	1	9	1/10	1	9	1/100	1	9	1/1000						
1/2000	DI	3	3	1/2	1	9	1/20	1	9	1/200	1	9	1/2000			
1/3000	DI	3	6	1/3	1	9	1/30	1	9	1/300	1	9	1/3000			
1/4000	DI	1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000			
1/10000	DI	1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000			
1/20000	DI	1	1	1/2	1	9	1/20	1	9	1/200	1	9	1/2000	1	9	1/20000
1/40000	DI	1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000	1	9	1/40000
1/100000	DI	1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000	1	9	1/100000

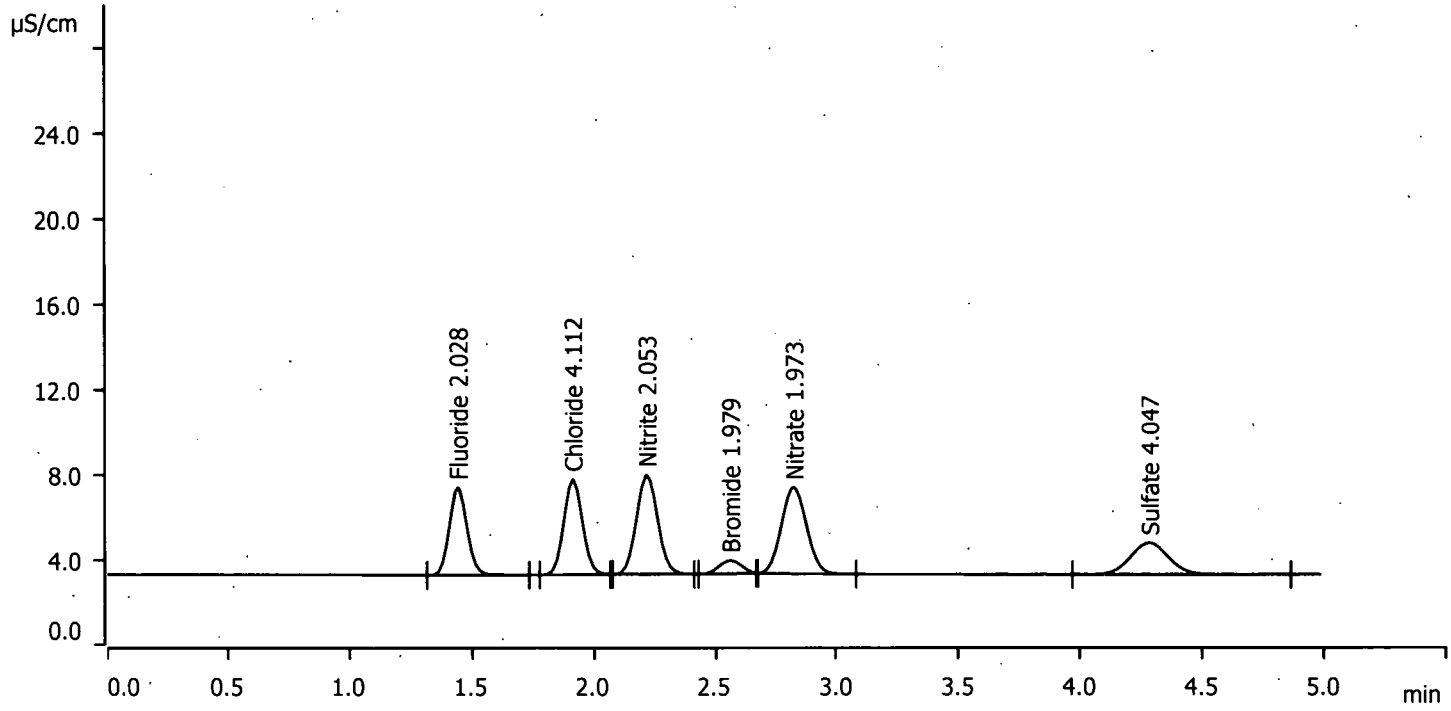
Special Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-15 17:24:40 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92363
Sample Position	1
Comment 1	300.0/9056A
Comment 2	

Anions



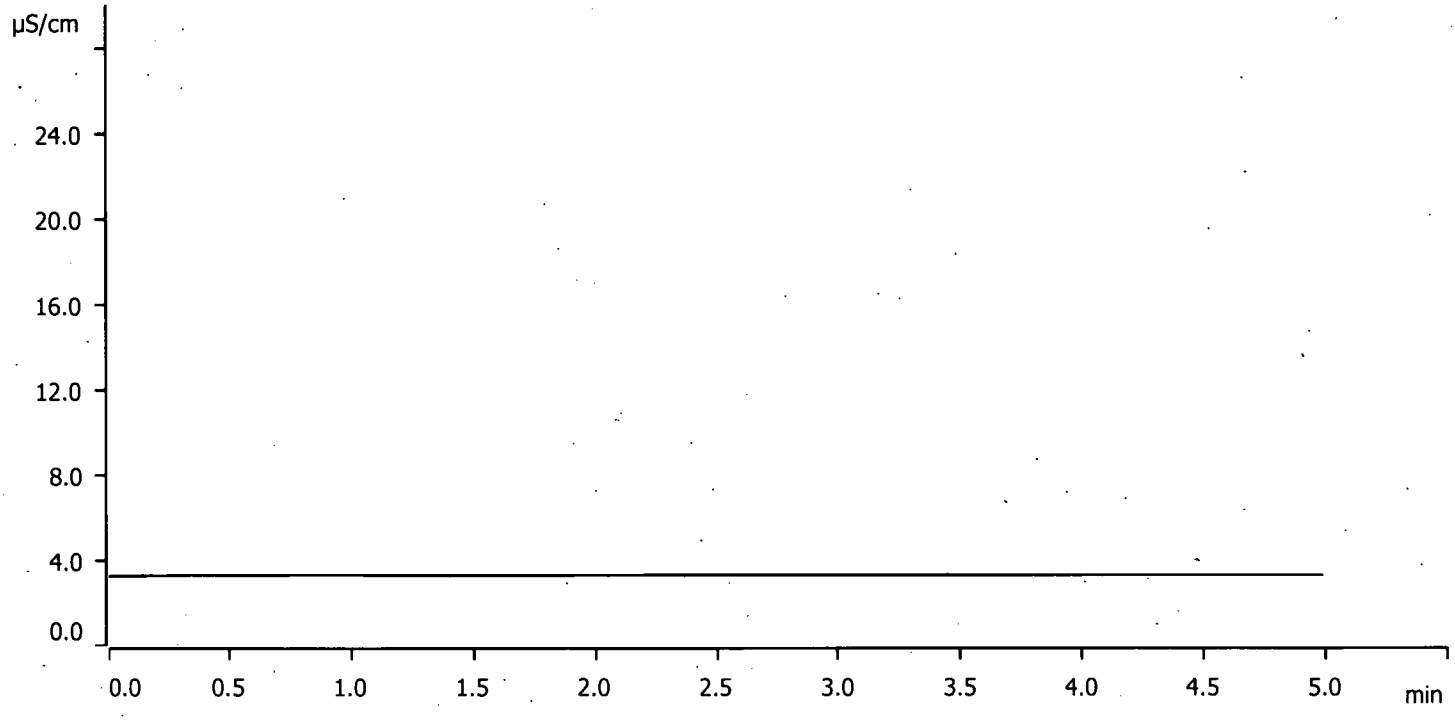
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.340	2.028	Fluoride	BB
2	1.92	0.399	4.112	Chloride	BB
3	2.22	0.474	2.053	Nitrite	BB
4	2.57	0.066	1.979	Bromide	BB
5	2.83	0.479	1.973	Nitrate	BB
6	4.28	0.271	4.047	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-15 17:30:57 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92364
Sample Position	2
Comment 1	300.0/9056A
Comment 2	

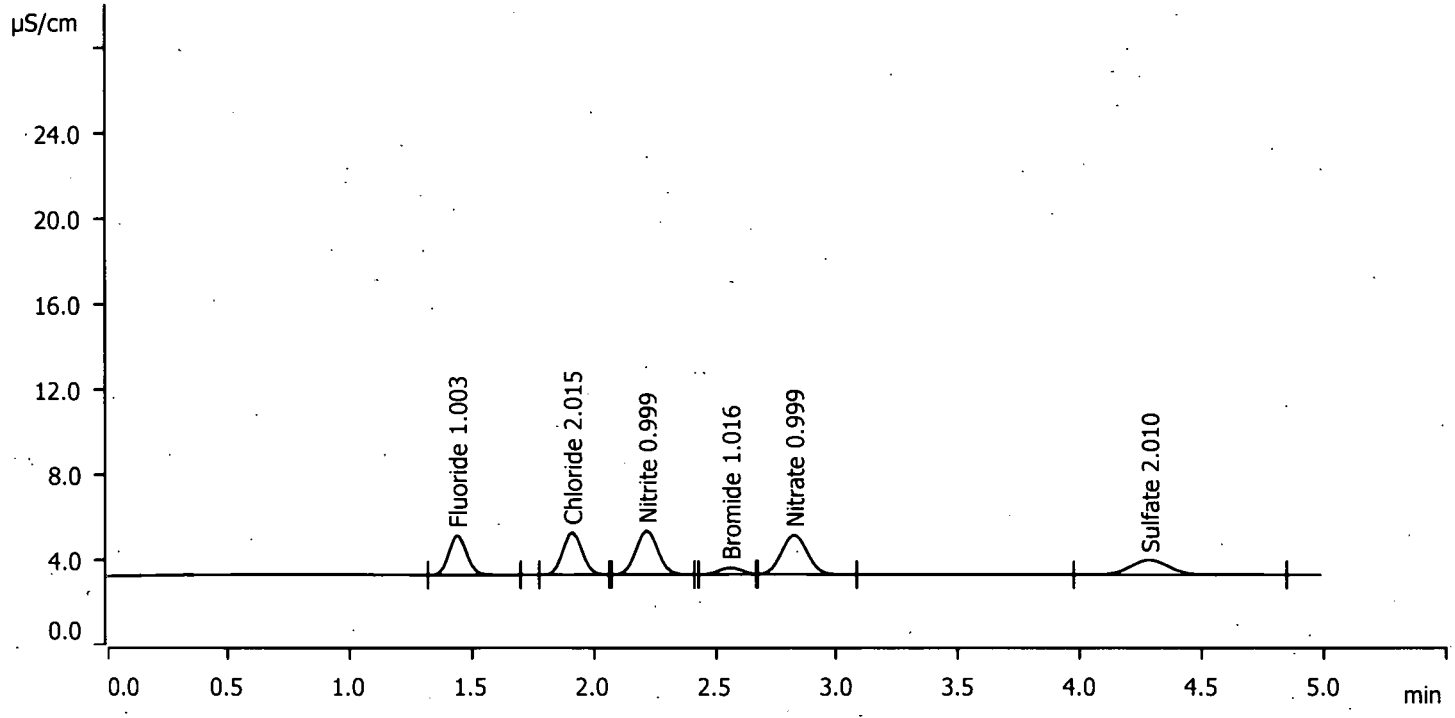
Anions



Sample data

Ident	LCS
Sample type	Check standard 2
Determination start	2024-09-15 17:37:11 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92365
Sample Position	3
Comment 1	300.0/9056A
Comment 2	

Anions



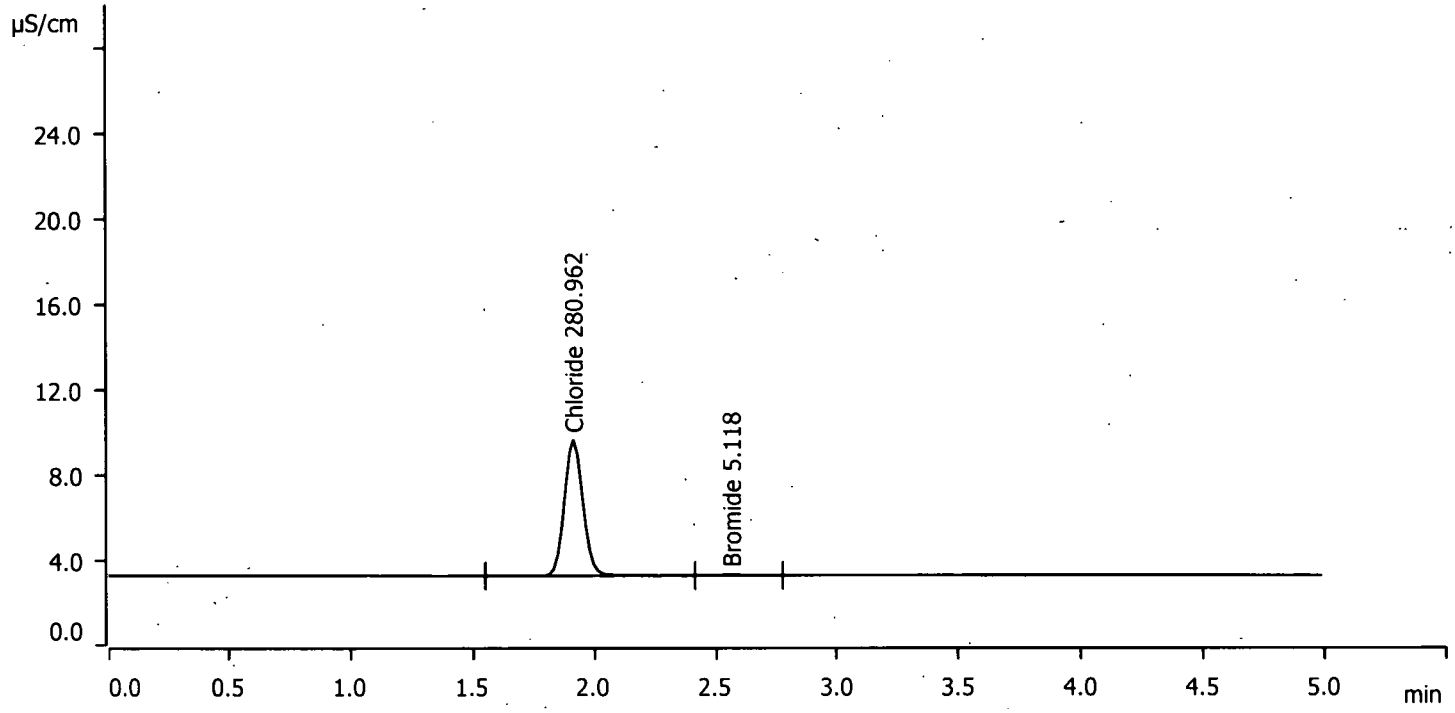
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.158	1.003	Fluoride	BB
2	1.92	0.181	2.015	Chloride	BB
3	2.22	0.216	0.999	Nitrite	BB
4	2.56	0.033	1.016	Bromide	BB
5	2.83	0.225	0.999	Nitrate	BB
6	4.28	0.129	2.010	Sulfate	BB

Sample data

Ident	R2409013-001
Sample type	Sample
Determination start	2024-09-15 17:48:15 UTC-4
Method	10-091224FAST
Dilution	50
Counter	92367
Sample Position	4
Comment 1	300.0 C
Comment 2	

Anions



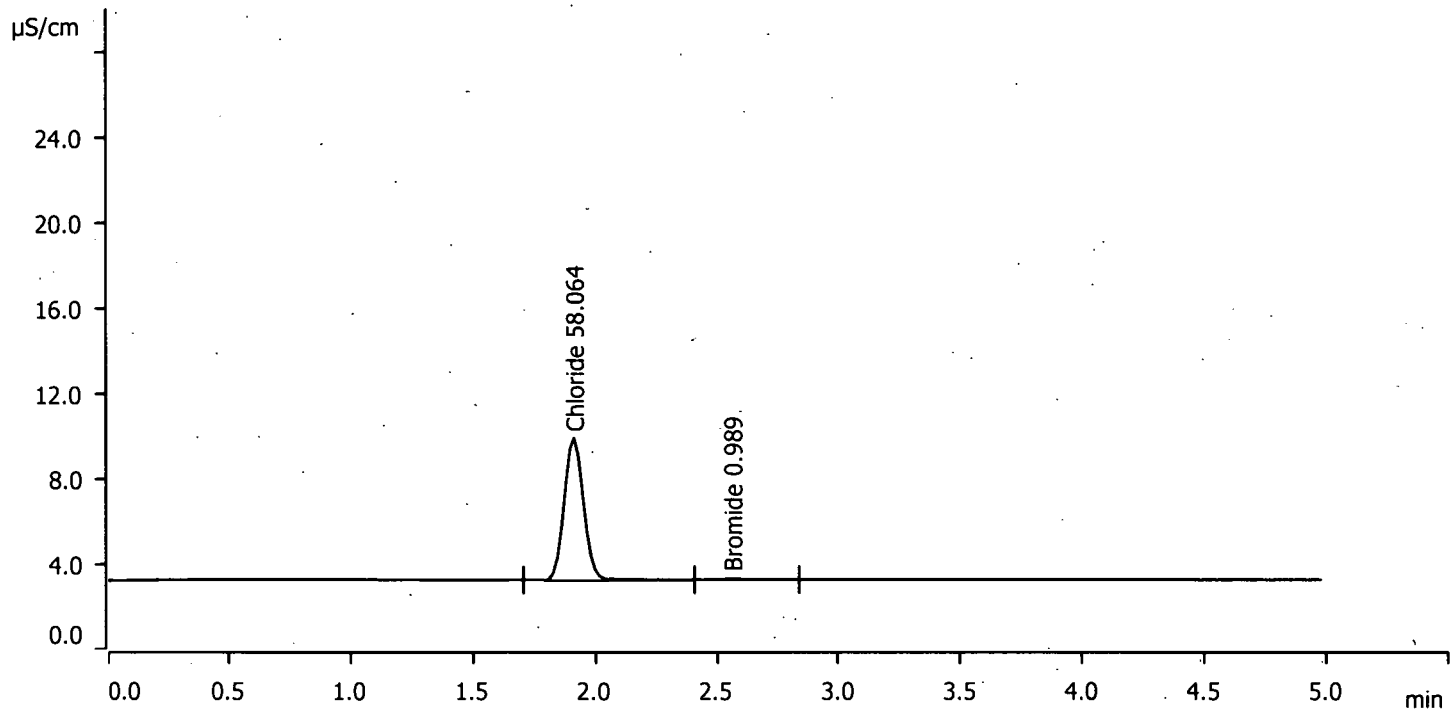
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.571	280.962	Chloride	BB
2	2.57	0.003	5.118	Bromide	BB

Sample data

Ident	R2409013-003
Sample type	Sample
Determination start	2024-09-15 17:54:33 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92368
Sample Position	5
Comment 1	300.0 C
Comment 2	

Anions



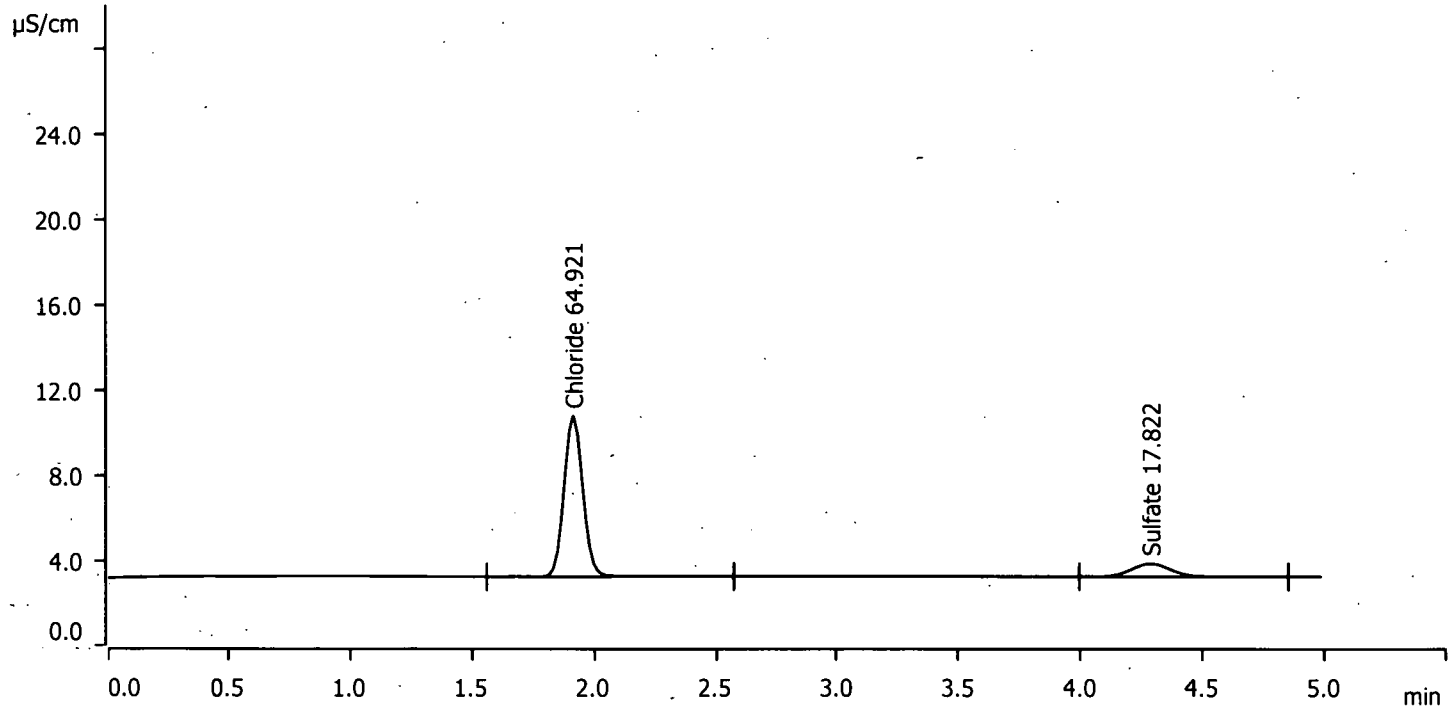
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.594	58.064	Chloride	BB
2	2.57	0.003	0.989	Bromide	BB

Sample data

Ident	R2409013-006
Sample type	Sample
Determination start	2024-09-15 18:00:49 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92369
Sample Position	6
Comment 1	300.0 C
Comment 2	

Anions



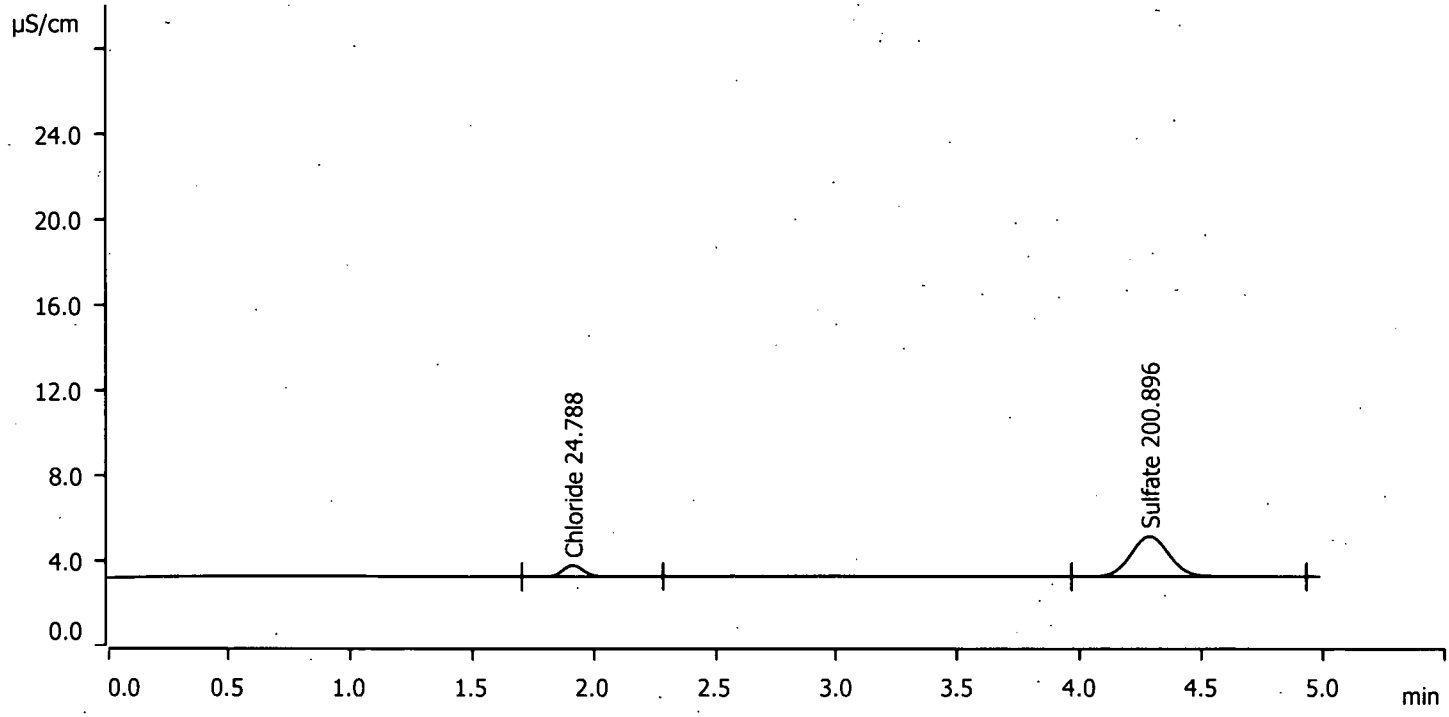
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.678	64.921	Chloride	BB
2	4.29	0.114	17.822	Sulfate	BB

Sample data

Ident	R2408139-007
Sample type	Sample
Determination start	2024-09-15 18:07:04 UTC-4
Method	10-091224FAST
Dilution	40
Counter	92370
Sample Position	7
Comment 1	300.0 S
Comment 2	

Anions



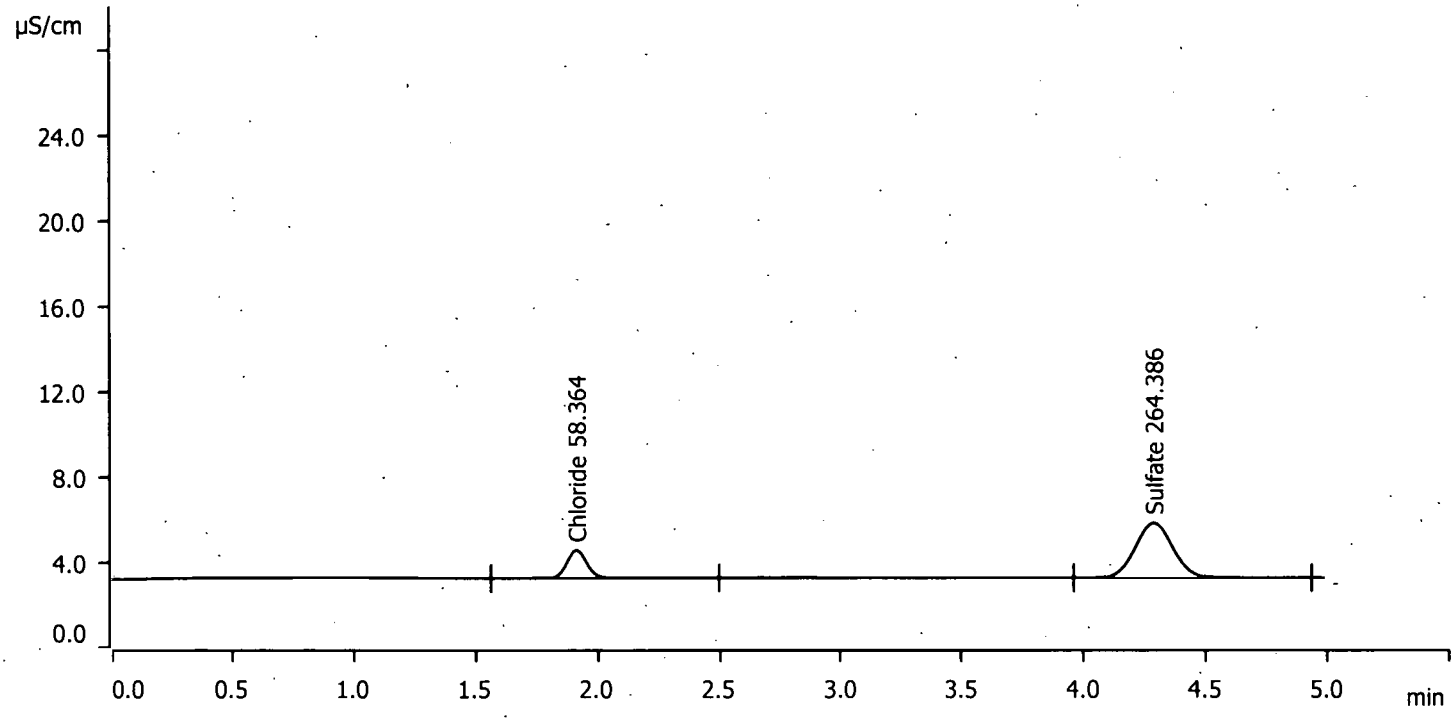
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.052	24.788	Chloride	BB
2	4.29	0.343	200.896	Sulfate	BB

Sample data

Ident	R2408140-011
Sample type	Sample
Determination start	2024-09-15 18:13:20 UTC-4
Method	10-091224FAST
Dilution	40
Counter	92371
Sample Position	8
Comment 1	300.0 S
Comment 2	

Anions



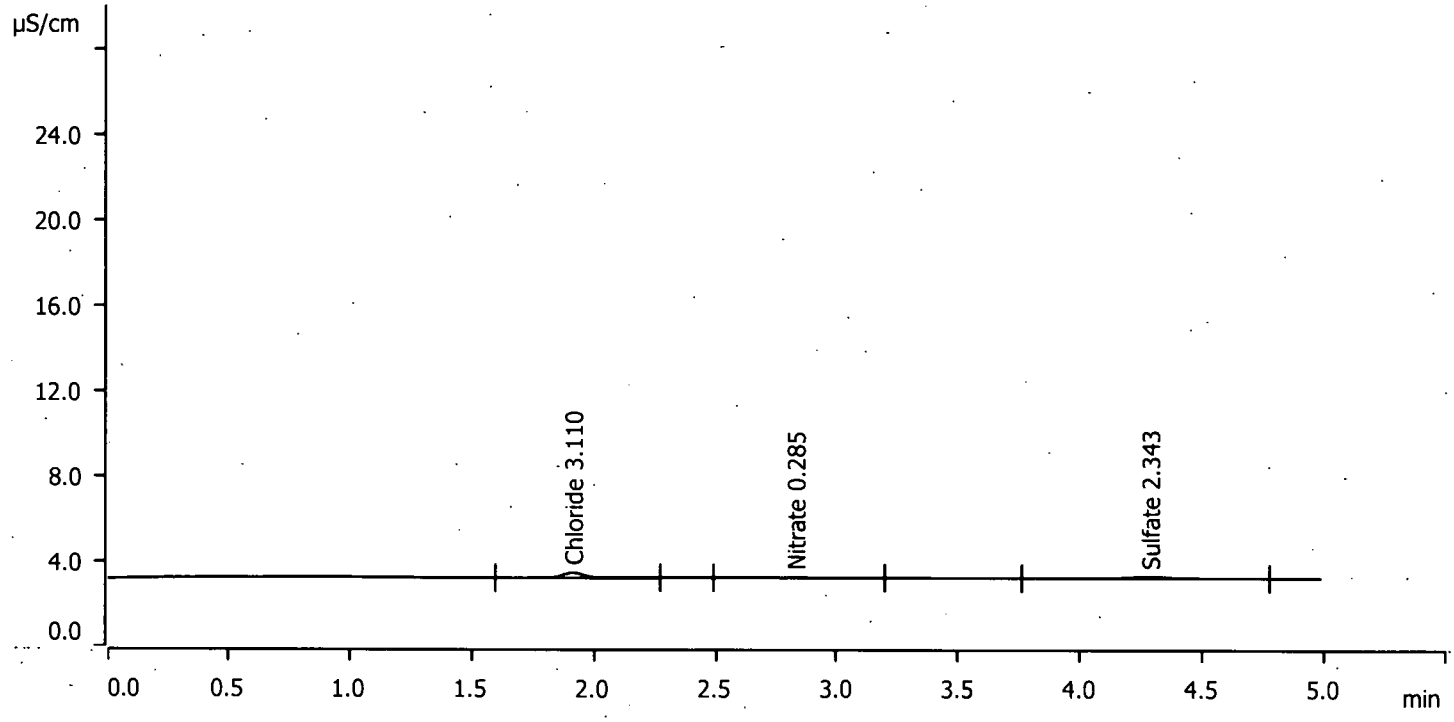
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.128	58.364	Chloride	BB
2	4.29	0.466	264.386	Sulfate	BB

Sample data

Ident	R2408253-015
Sample type	Sample
Determination start	2024-09-15 18:19:35 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92372
Sample Position	9
Comment 1	300.0 C
Comment 2	

Anions



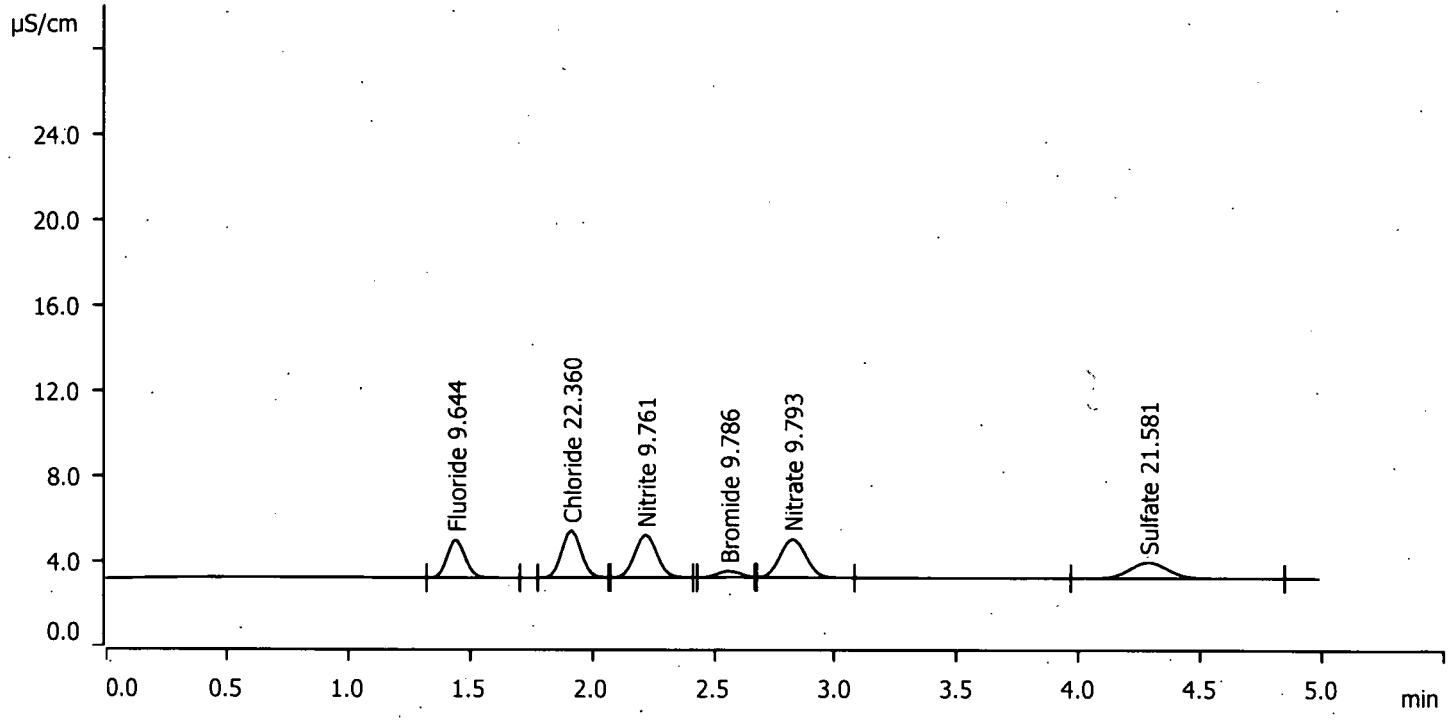
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.025	3.110	Chloride	BB
2	2.83	0.002	0.285	Nitrate	BB
3	4.29	0.014	2.343	Sulfate	BB

Sample data

Ident	R2408253-015 MS
Sample type	Sample
Determination start	2024-09-15 18:25:51 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92373
Sample Position	10
Comment 1	300.0 C
Comment 2	

Anions



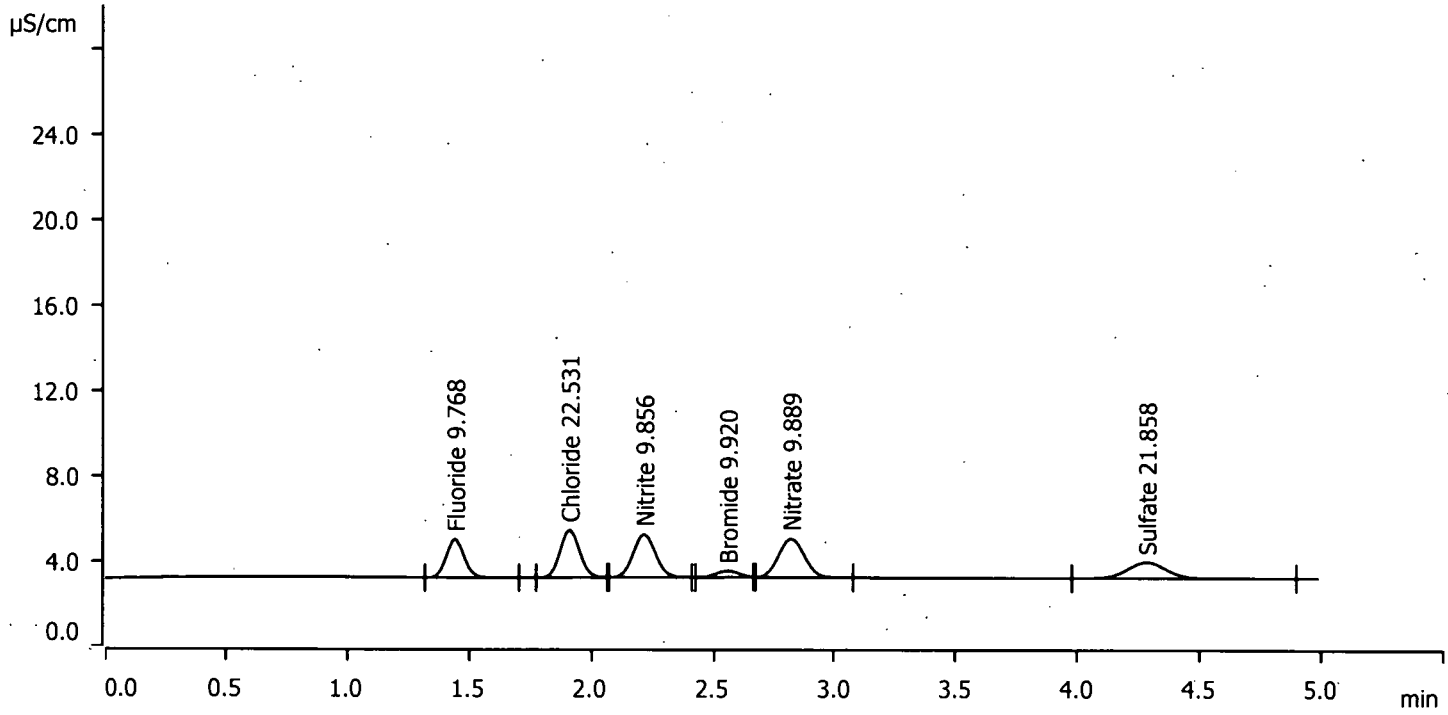
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.151	9.644	Fluoride	BB
2	1.92	0.203	22.360	Chloride	BB
3	2.22	0.210	9.761	Nitrite	BB
4	2.56	0.031	9.786	Bromide	BB
5	2.83	0.220	9.793	Nitrate	BB
6	4.29	0.139	21.581	Sulfate	BB

Sample data

Ident	R2408253-015 MSD
Sample type	Sample
Determination start	2024-09-15 18:32:07 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92374
Sample Position	11
Comment 1	300.0 C
Comment 2	

Anions



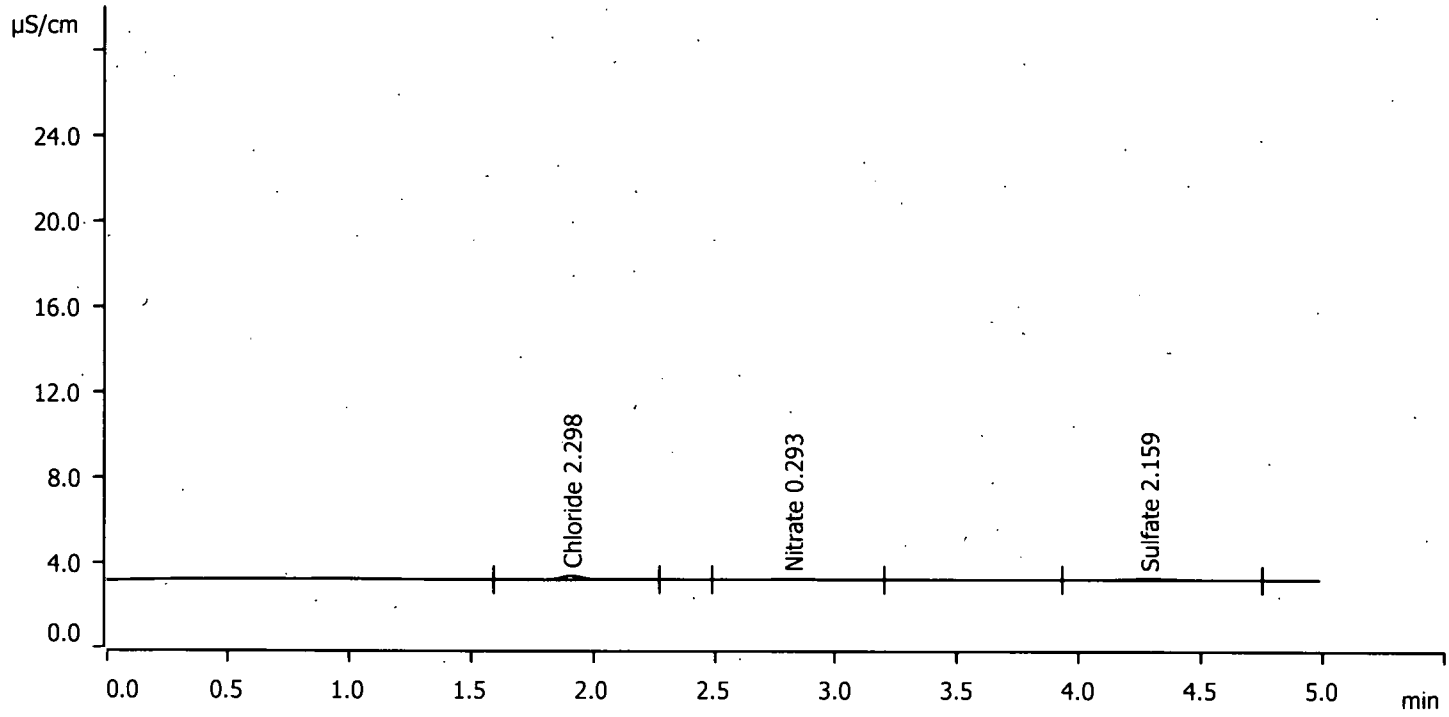
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.153	9.768	Fluoride	BB
2	1.92	0.205	22.531	Chloride	BB
3	2.22	0.213	9.856	Nitrite	BB
4	2.56	0.032	9.920	Bromide	BB
5	2.82	0.222	9.889	Nitrate	BB
6	4.28	0.141	21.858	Sulfate	BB

Sample data

Ident	R2408253-017
Sample type	Sample
Determination start	2024-09-15 18:38:22 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92375
Sample Position	12
Comment 1	300.0 C
Comment 2	

Anions



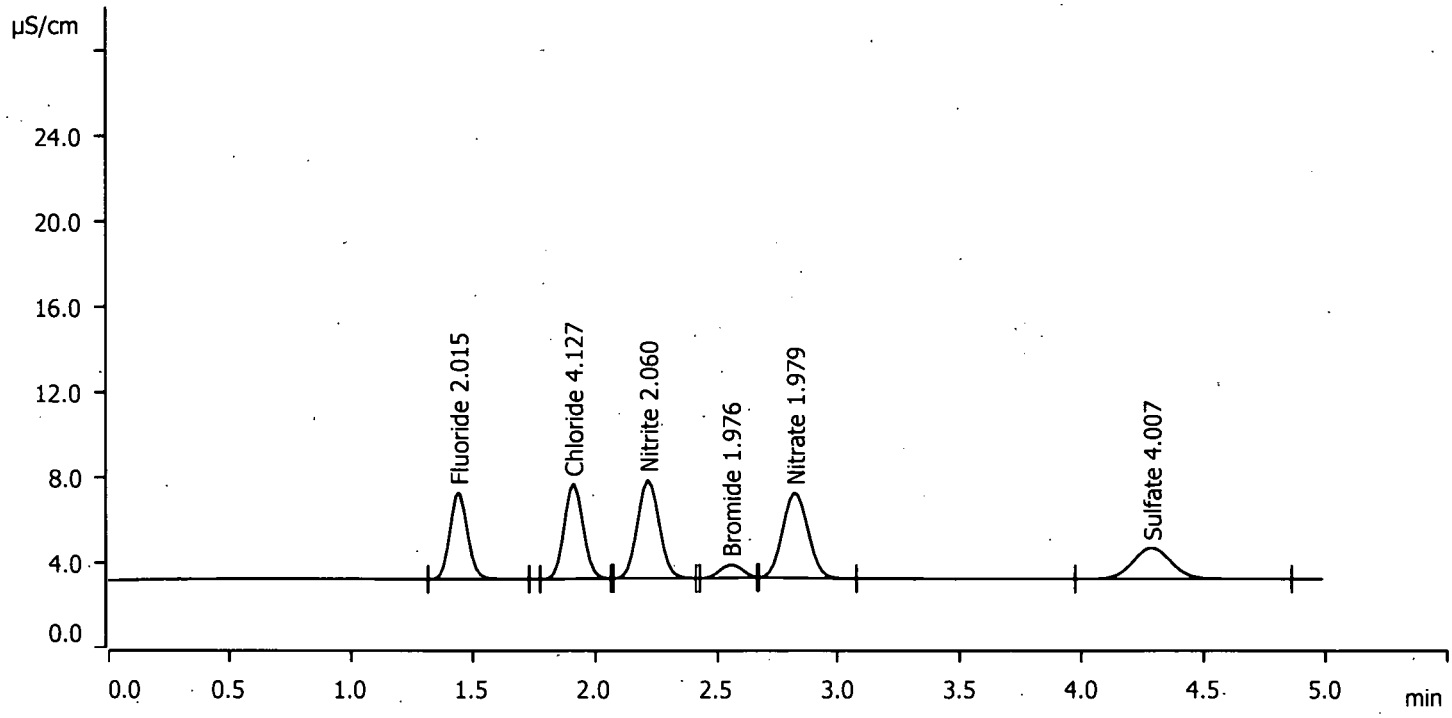
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.018	2.298	Chloride	BB
2	2.82	0.002	0.293	Nitrate	BBI
3	4.29	0.013	2.159	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-15 18:44:38 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92376
Sample Position	13
Comment 1	300.0/9056A
Comment 2	

Anions



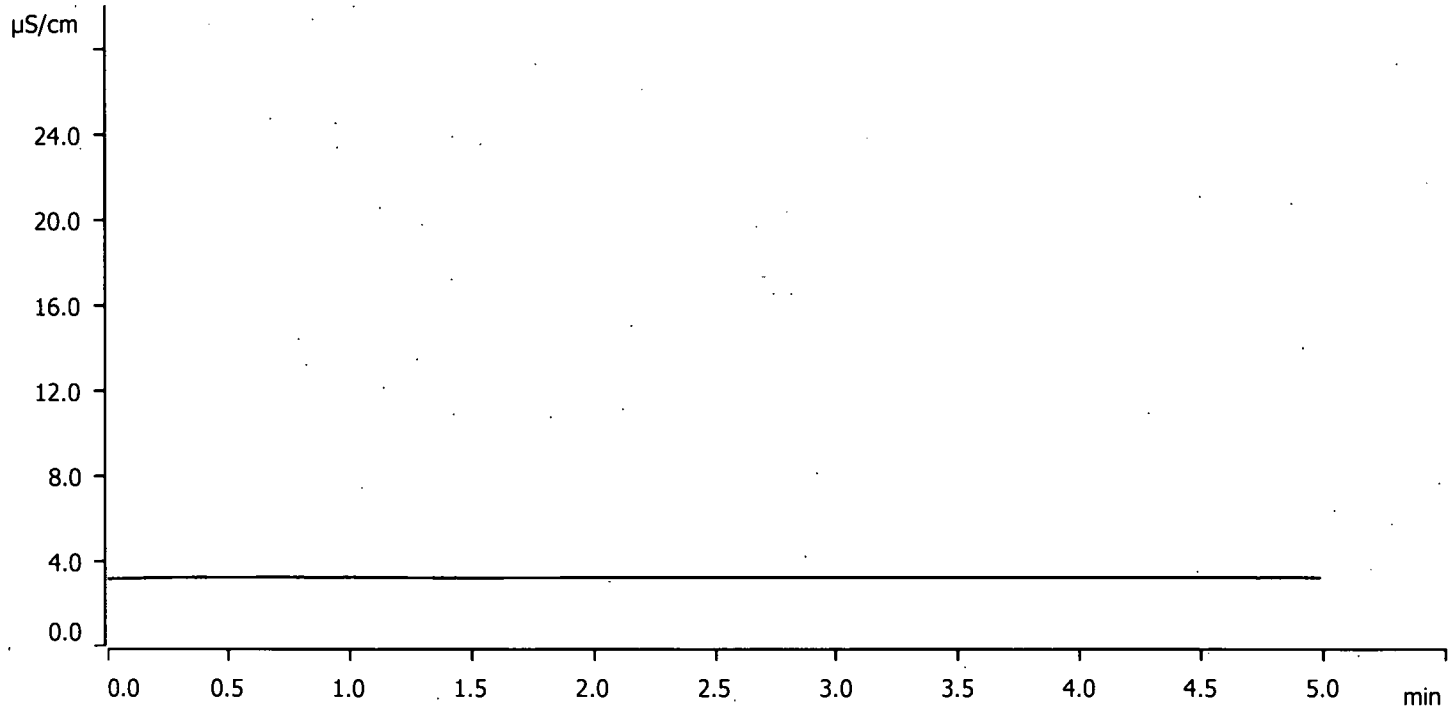
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.338	2.015	Fluoride	BB
2	1.92	0.400	4.127	Chloride	BB
3	2.22	0.476	2.060	Nitrite	BB
4	2.56	0.066	1.976	Bromide	BB
5	2.82	0.481	1.979	Nitrate	BB
6	4.29	0.268	4.007	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-15 18:50:54 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92377
Sample Position	14
Comment 1	300.0/9056A
Comment 2	

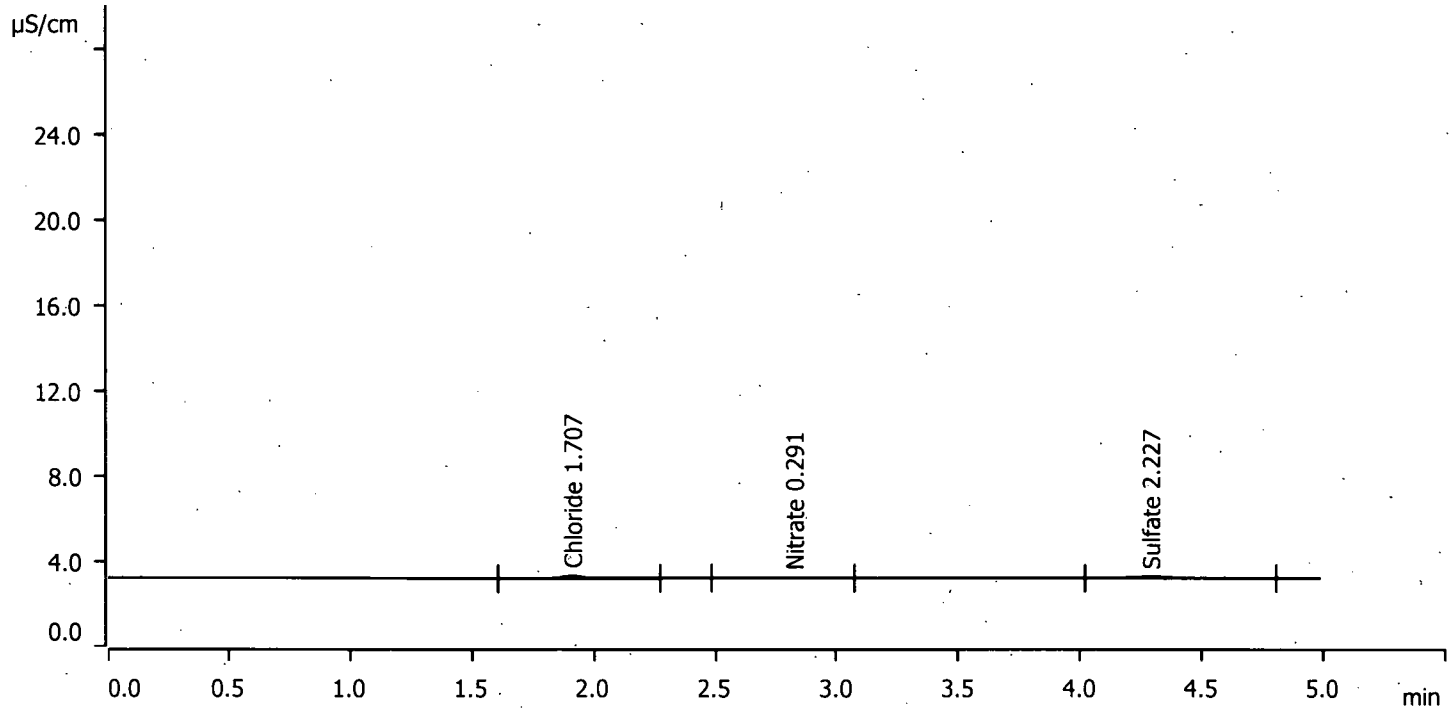
Anions



Sample data

Ident	R2408253-019
Sample type	Sample
Determination start	2024-09-15 19:26:34 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92378
Sample Position	15
Comment 1	300.0 C
Comment 2	

Anions



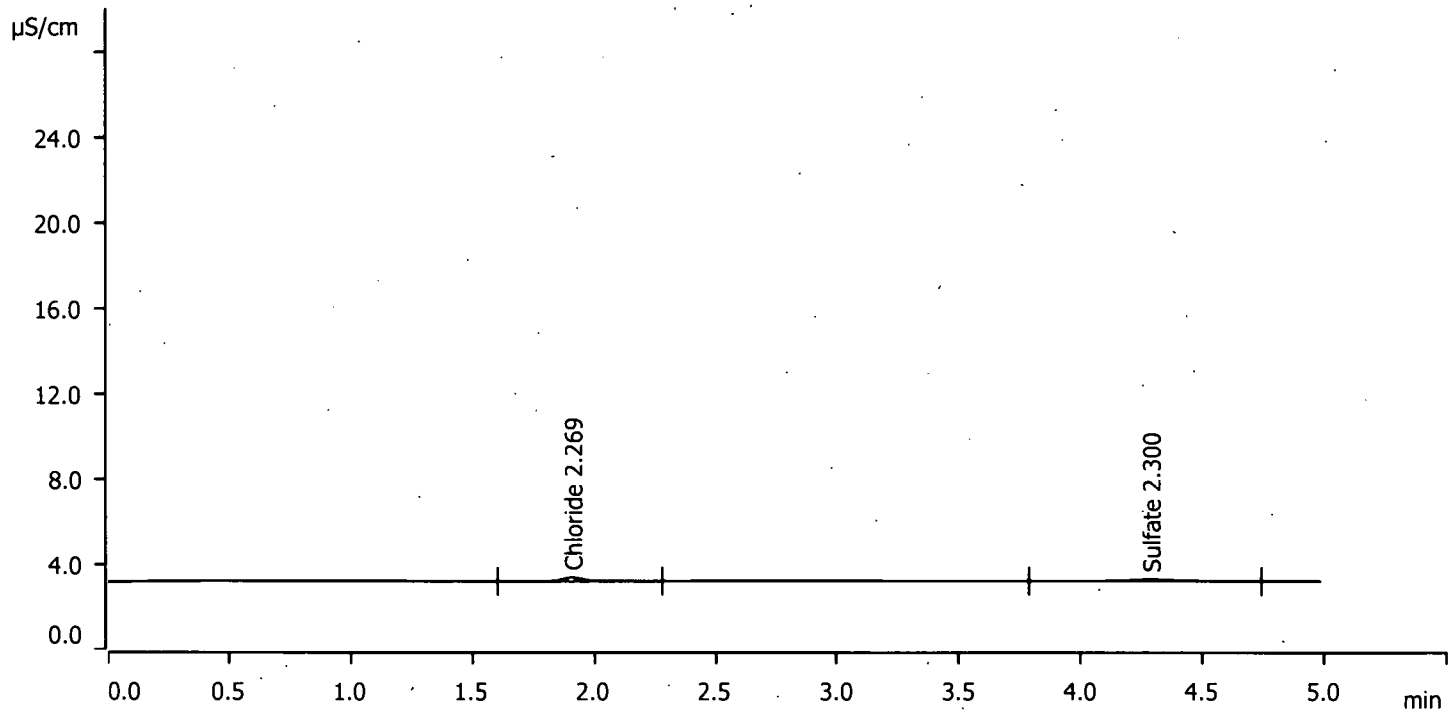
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.013	1.707	Chloride	BB
2	2.82	0.002	0.291	Nitrate	BB
3	4.29	0.014	2.227	Sulfate	BB

Sample data

Ident	R2408253-021
Sample type	Sample
Determination start	2024-09-15 19:32:50 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92379
Sample Position	16
Comment 1	300.0 C
Comment 2	

Anions



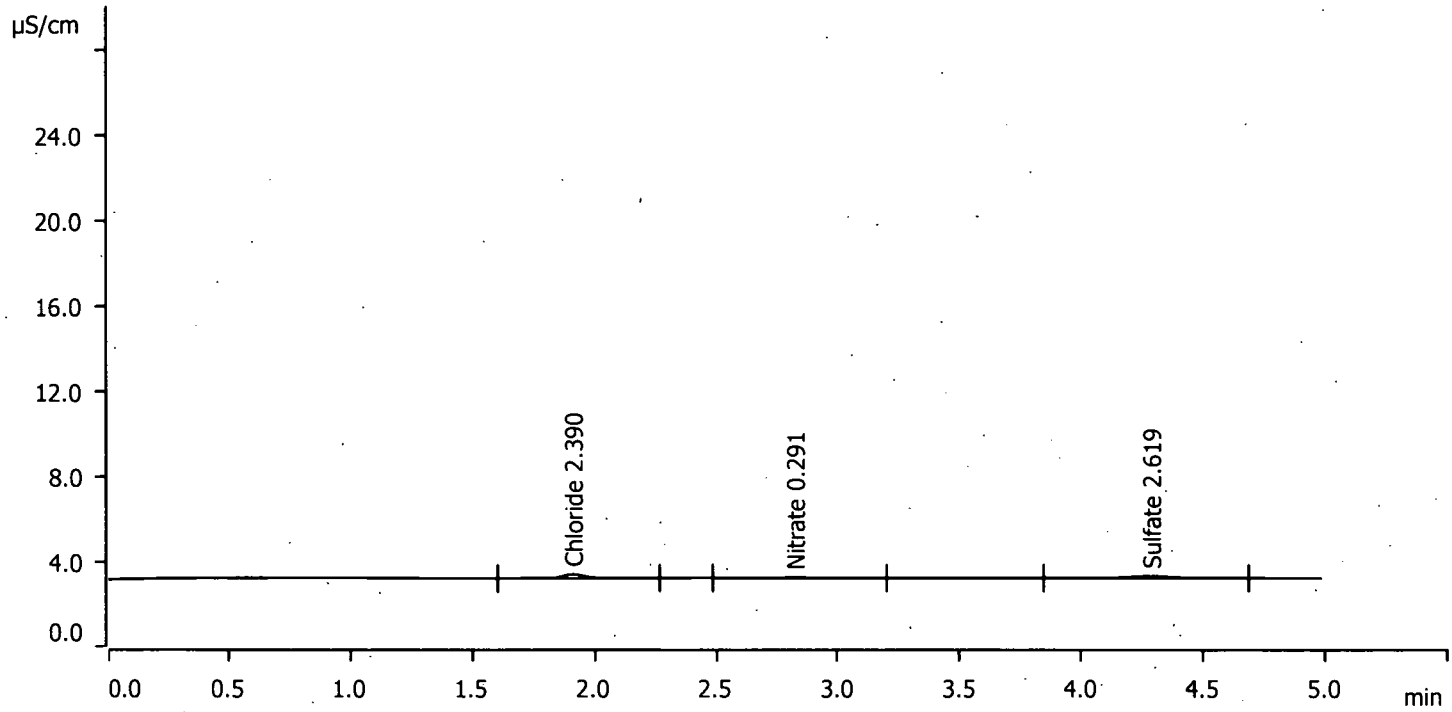
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.017	2.269	Chloride	BB
2	4.29	0.014	2.300	Sulfate	BB

Sample data

Ident	R2408253-023
Sample type	Sample
Determination start	2024-09-15 19:39:23 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92380
Sample Position	17
Comment 1	300.0 C
Comment 2	

Anions



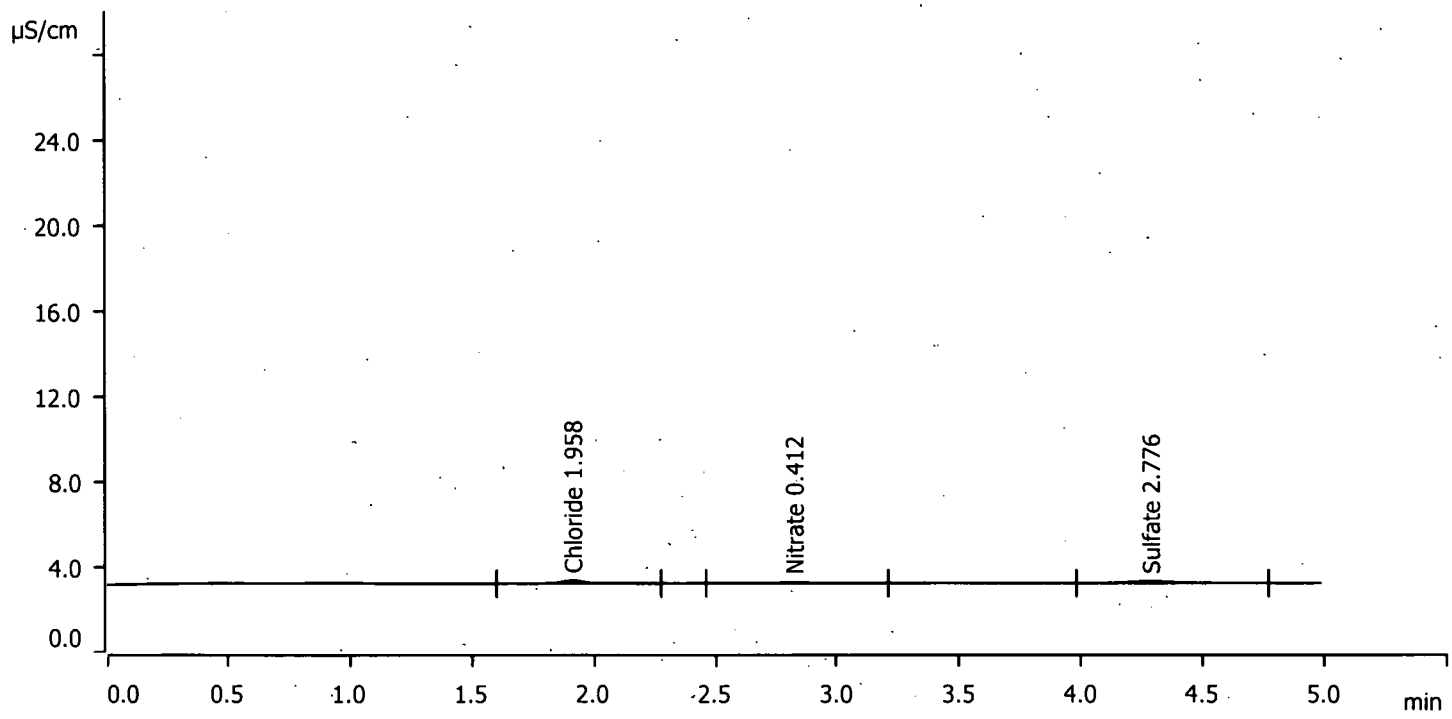
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.019	2.390	Chloride	BB
2	2.82	0.002	0.291	Nitrate	BB
3	4.29	0.016	2.619	Sulfate	BB

Sample data

Ident	R2408253-027
Sample type	Sample
Determination start	2024-09-15 19:45:38 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92381
Sample Position	18
Comment 1	300.0 C
Comment 2	

Anions



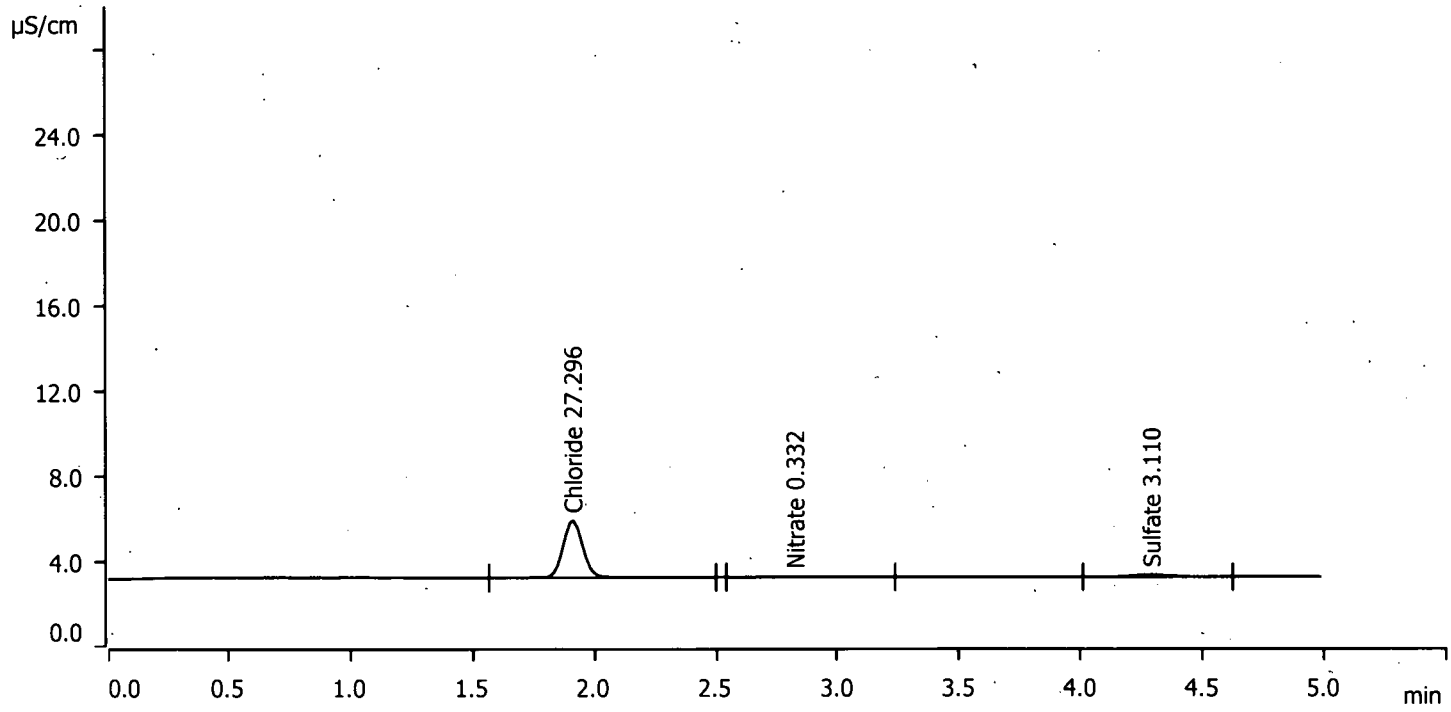
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.015	1.958	Chloride	BB
2	2.82	0.005	0.412	Nitrate	BB
3	4.28	0.017	2.776	Sulfate	BB

Sample data

Ident	R2408253-029
Sample type	Sample
Determination start	2024-09-15 19:51:54 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92382
Sample Position	19
Comment 1	300.0 C
Comment 2	

Anions



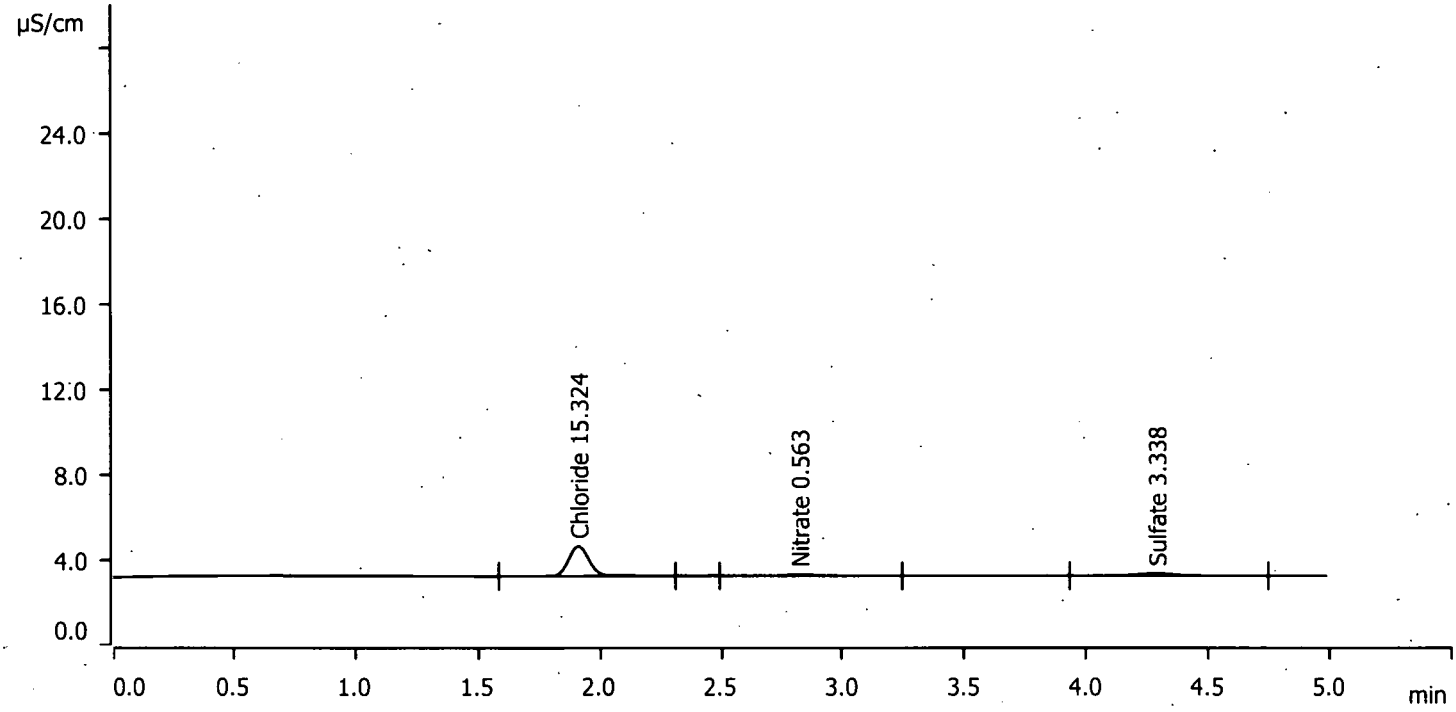
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.252	27.296	Chloride	BB
2	2.82	0.003	0.332	Nitrate	BBI
3	4.29	0.019	3.110	Sulfate	BB

Sample data

Ident	R2408253-031
Sample type	Sample
Determination start	2024-09-15 19:58:09 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92383
Sample Position	20
Comment 1	300.0 C
Comment 2	

Anions



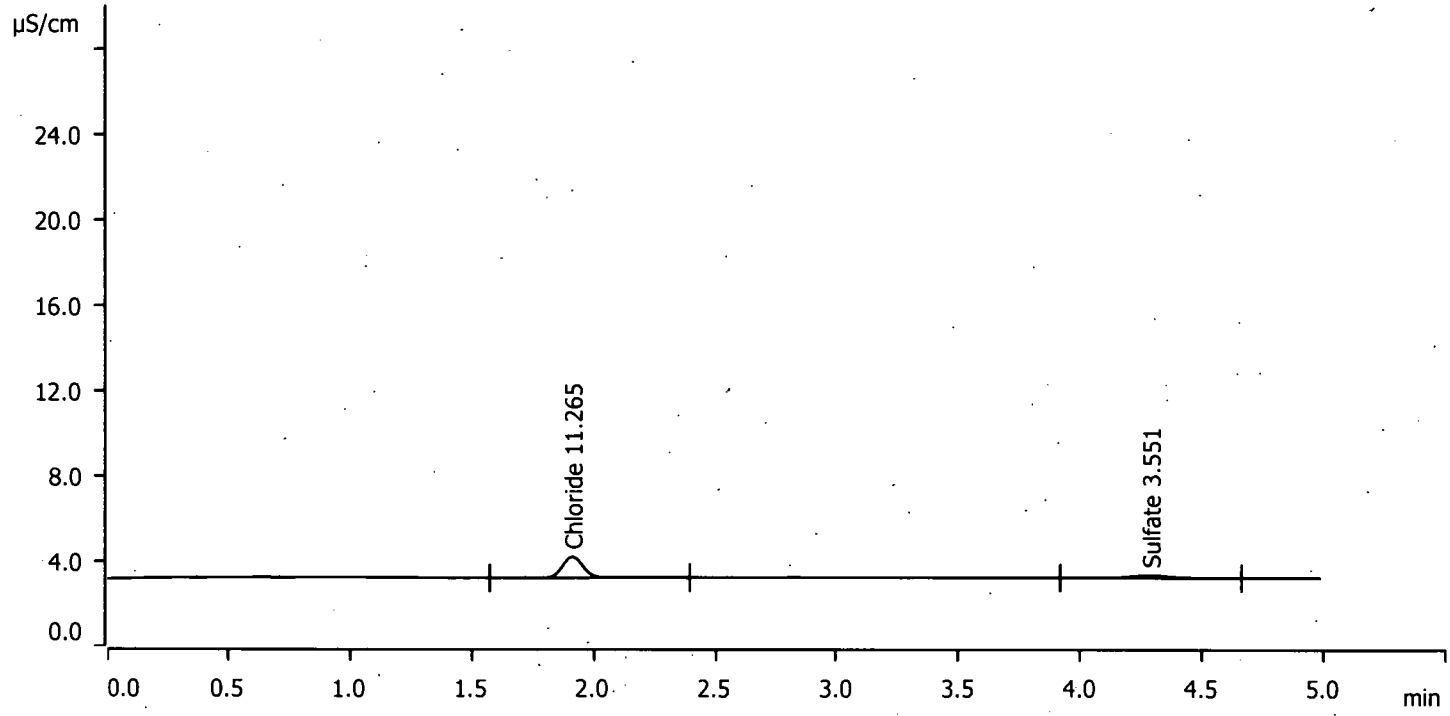
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.135	15.324	Chloride	BB
2	2.82	0.008	0.563	Nitrate	BB
3	4.29	0.021	3.338	Sulfate	BB

Sample data

Ident	R2408254-013
Sample type	Sample
Determination start	2024-09-15 20:04:23 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92384
Sample Position	21
Comment 1	300.0 C
Comment 2	

Anions



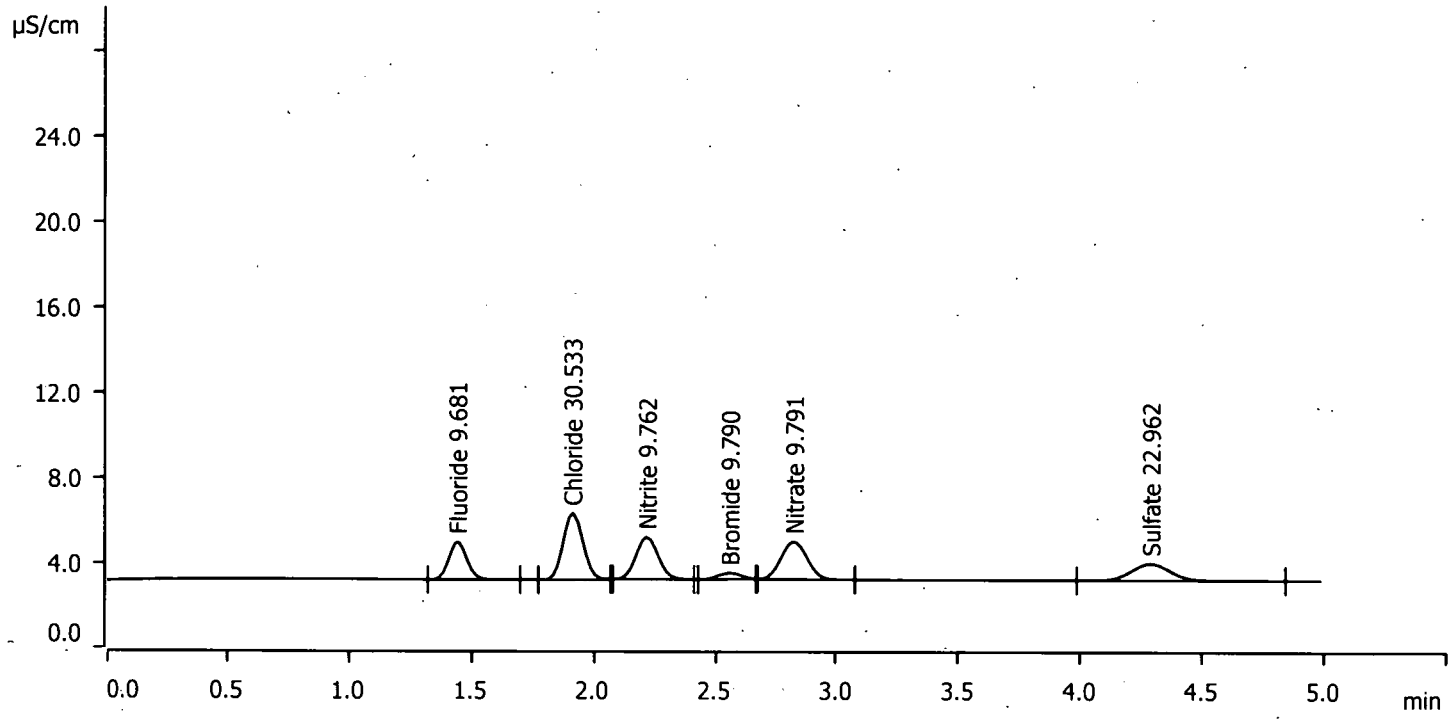
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.097	11.265	Chloride	BB
2	4.29	0.022	3.551	Sulfate	BB

Sample data

Ident	R2408254-013 MS
Sample type	Sample
Determination start	2024-09-15 20:11:00 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92385
Sample Position	22
Comment 1	300.0 C
Comment 2	

Anions



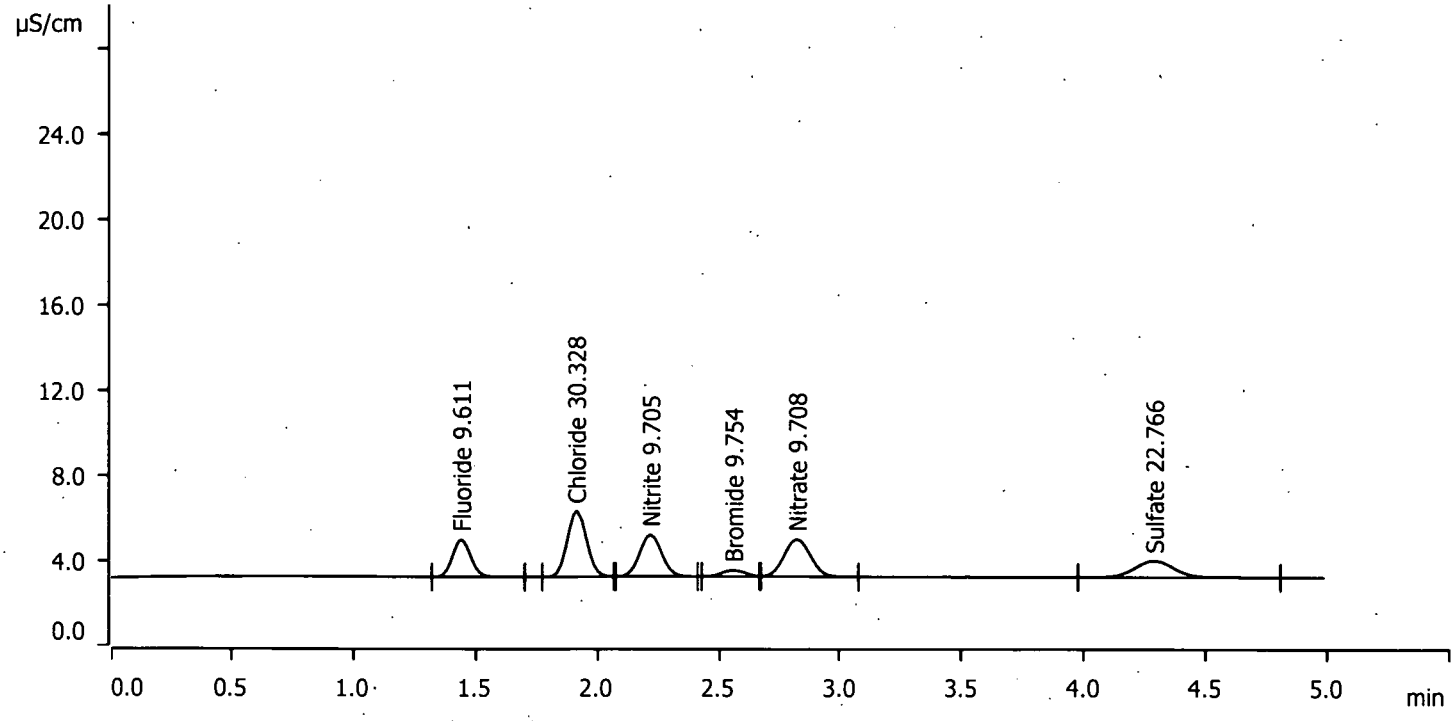
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.152	9.681	Fluoride	BB
2	1.92	0.285	30.533	Chloride	BB
3	2.22	0.210	9.762	Nitrite	BB
4	2.56	0.031	9.790	Bromide	BB
5	2.82	0.220	9.791	Nitrate	BB
6	4.29	0.148	22.962	Sulfate	BB

Sample data

Ident	R2408254-013 MSD
Sample type	Sample
Determination start	2024-09-15 20:17:16 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92386
Sample Position	23
Comment 1	300.0 C
Comment 2	

Anions



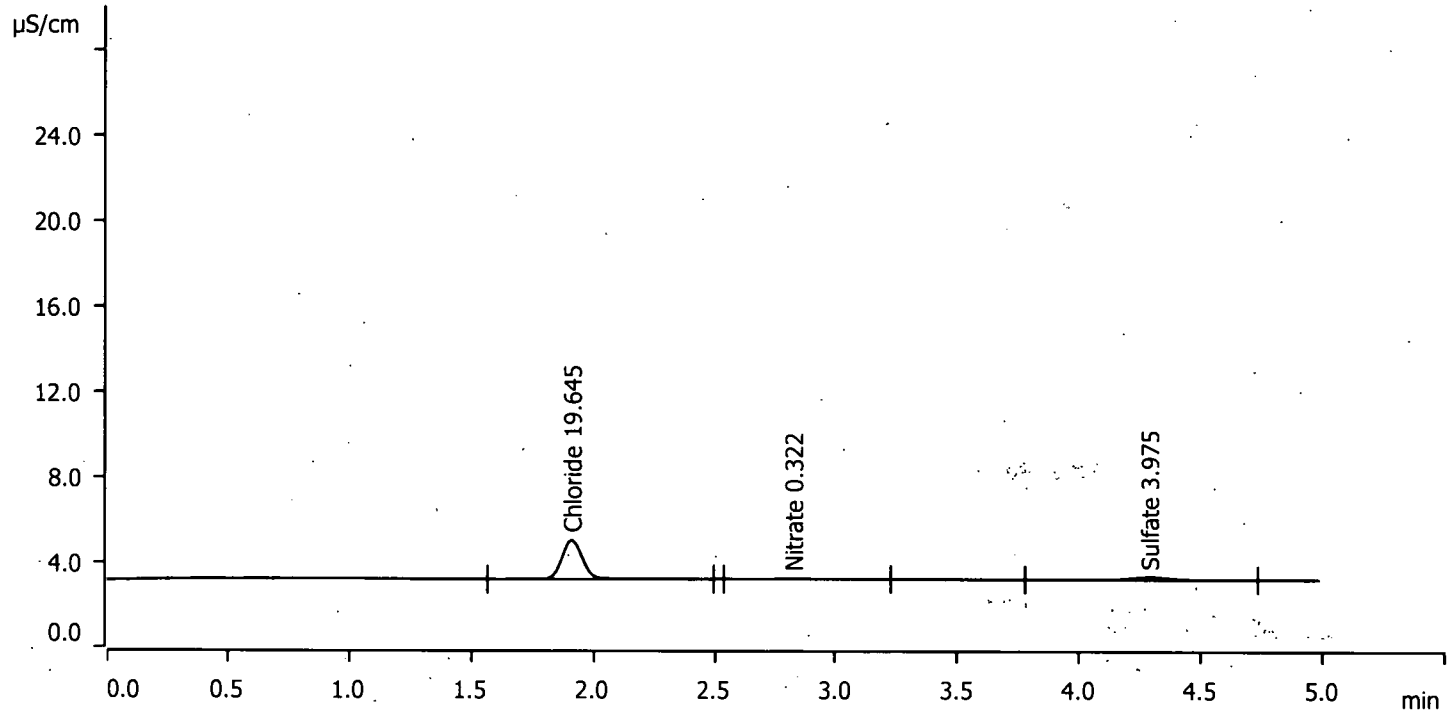
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.150	9.611	Fluoride	BB
2	1.92	0.283	30.328	Chloride	BB
3	2.22	0.209	9.705	Nitrite	BB
4	2.56	0.031	9.754	Bromide	BB
5	2.82	0.218	9.708	Nitrate	BB
6	4.29	0.147	22.766	Sulfate	BB

Sample data

Ident	R2408254-015
Sample type	Sample
Determination start	2024-09-15 20:24:51 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92387
Sample Position	24
Comment 1	300.0 C
Comment 2	

Anions



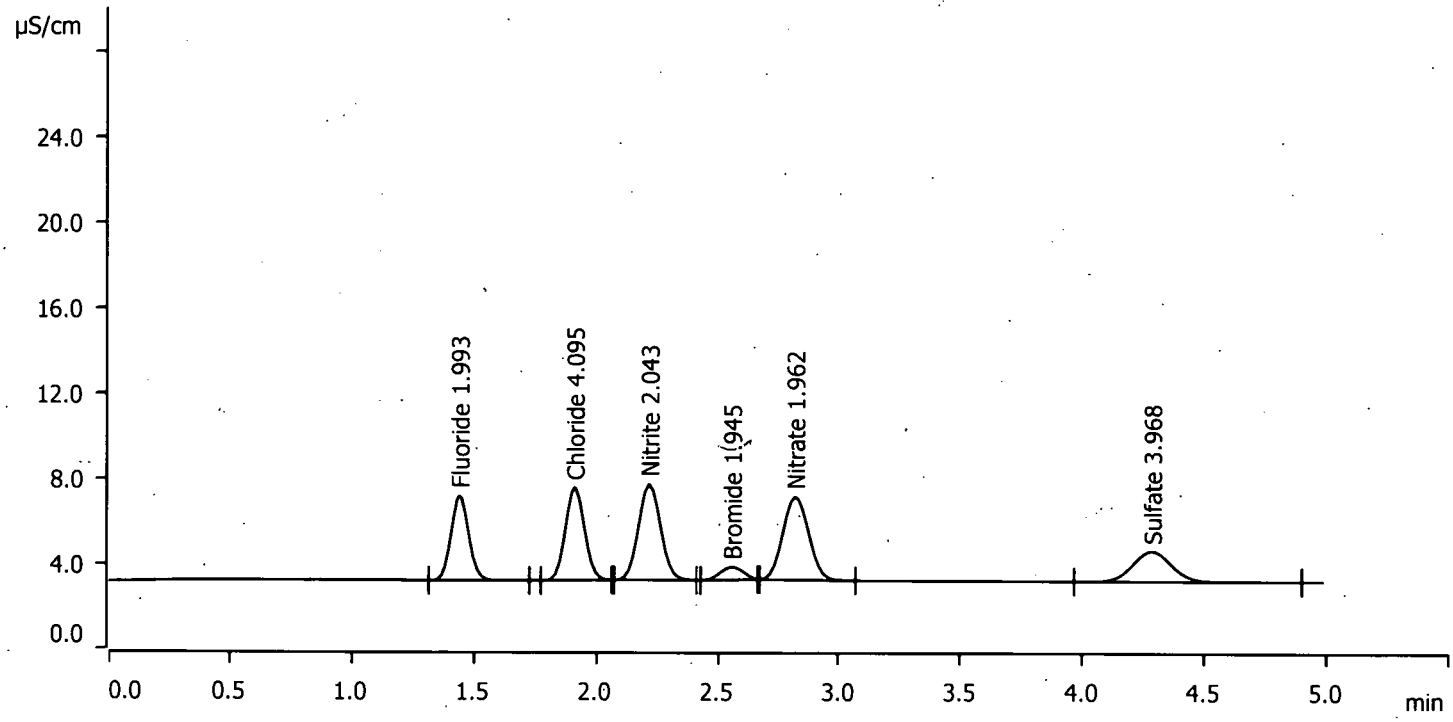
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.176	19.645	Chloride	BB
2	2.82	0.003	0.322	Nitrate	BBI
3	4.29	0.025	3.975	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-15 20:31:06 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92388
Sample Position	25
Comment 1	300.0/9056A
Comment 2	

Anions



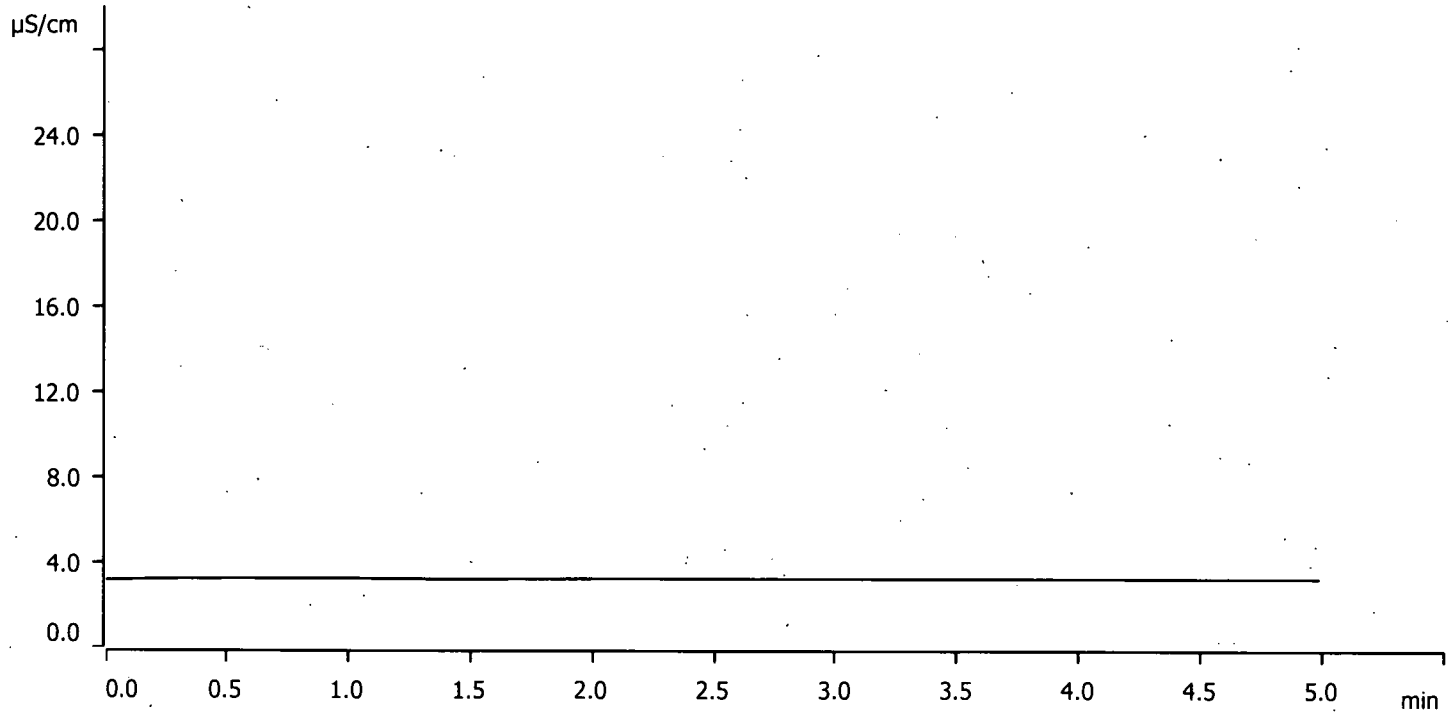
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.334	1.993	Fluoride	BB
2	1.91	0.397	4.095	Chloride	BB
3	2.22	0.472	2.043	Nitrite	BB
4	2.56	0.064	1.945	Bromide	BB
5	2.82	0.476	1.962	Nitrate	BB
6	4.29	0.265	3.968	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-15 20:38:21 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92389
Sample Position	26
Comment 1	300.0/9056A
Comment 2	

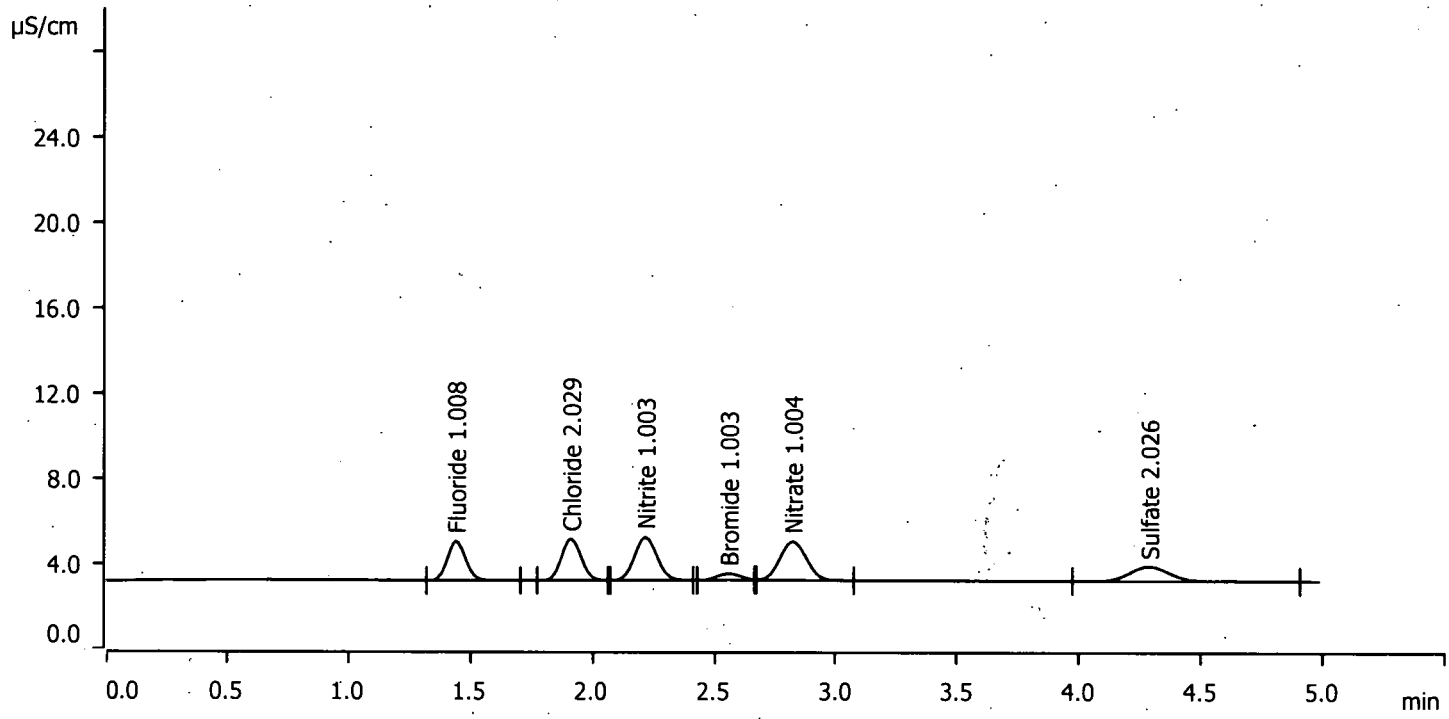
Anions



Sample data

Ident	LCS
Sample type	Check standard 2
Determination start	2024-09-15 20:46:30 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92390
Sample Position	27
Comment 1	300.0/9056A
Comment 2	

Anions



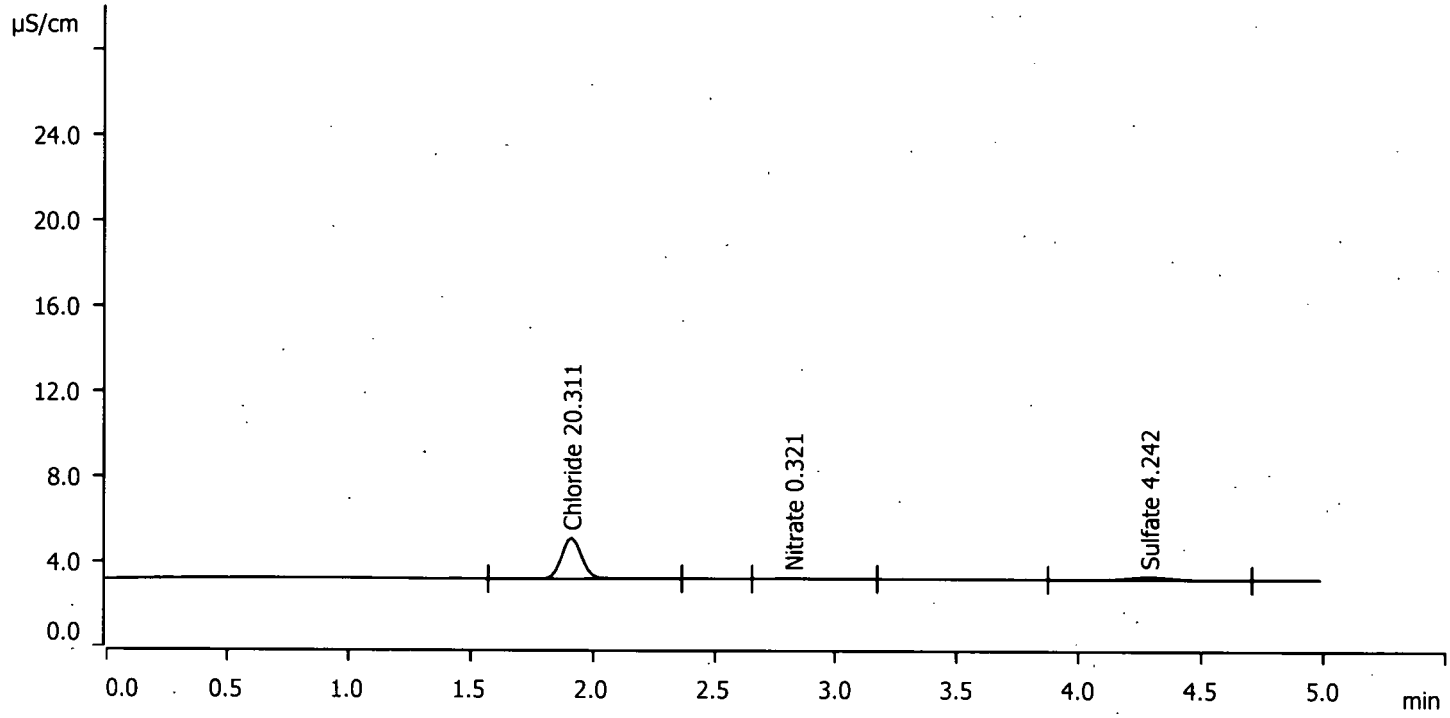
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.158	1.008	Fluoride	BB
2	1.92	0.183	2.029	Chloride	BB
3	2.22	0.217	1.003	Nitrite	BB
4	2.56	0.032	1.003	Bromide	BB
5	2.82	0.226	1.004	Nitrate	BB
6	4.29	0.130	2.026	Sulfate	BB

Sample data

Ident	R2408254-017
Sample type	Sample
Determination start	2024-09-15 20:54:12 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92391
Sample Position	28
Comment 1	300.0 C
Comment 2	

Anions



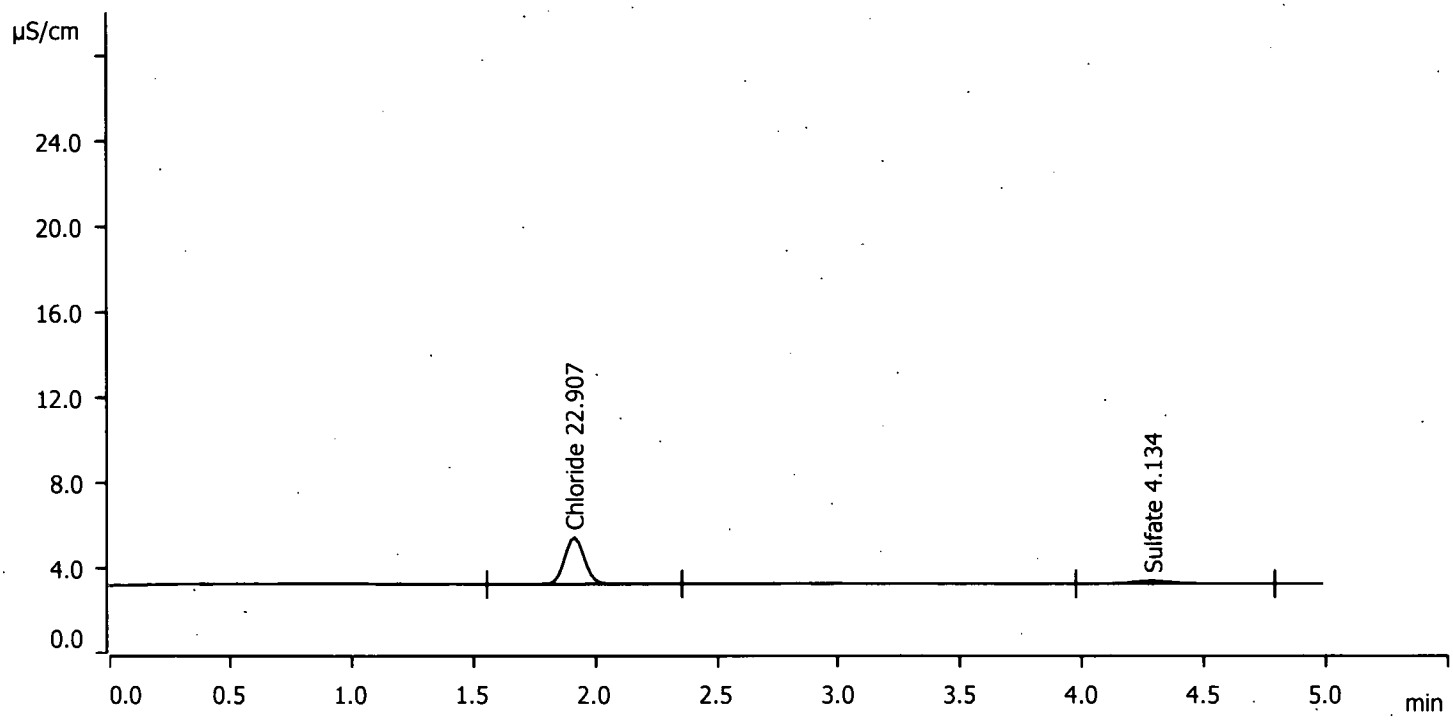
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.183	20.311	Chloride	BB
2	2.82	0.003	0.321	Nitrate	BB
3	4.29	0.026	4.242	Sulfate	BB

Sample data

Ident	R2408254-019
Sample type	Sample
Determination start	2024-09-15 21:00:28 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92392
Sample Position	29
Comment 1	300.0 C
Comment 2	

Anions



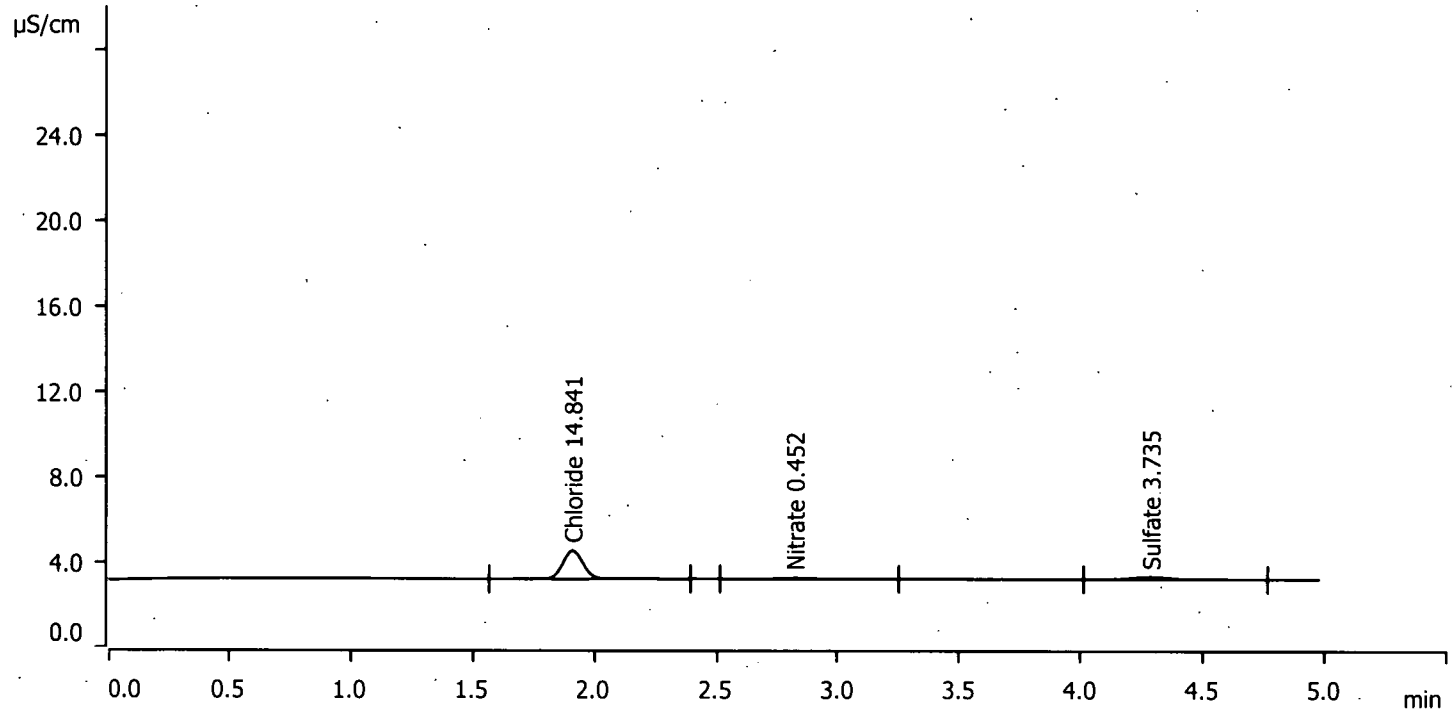
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.208	22.907	Chloride	BB
2	4.29	0.026	4.134	Sulfate	BB

Sample data

Ident	R2408254-021
Sample type	Sample
Determination start	2024-09-15 21:06:43 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92393
Sample Position	30
Comment 1	300.0 C
Comment 2	

Anions



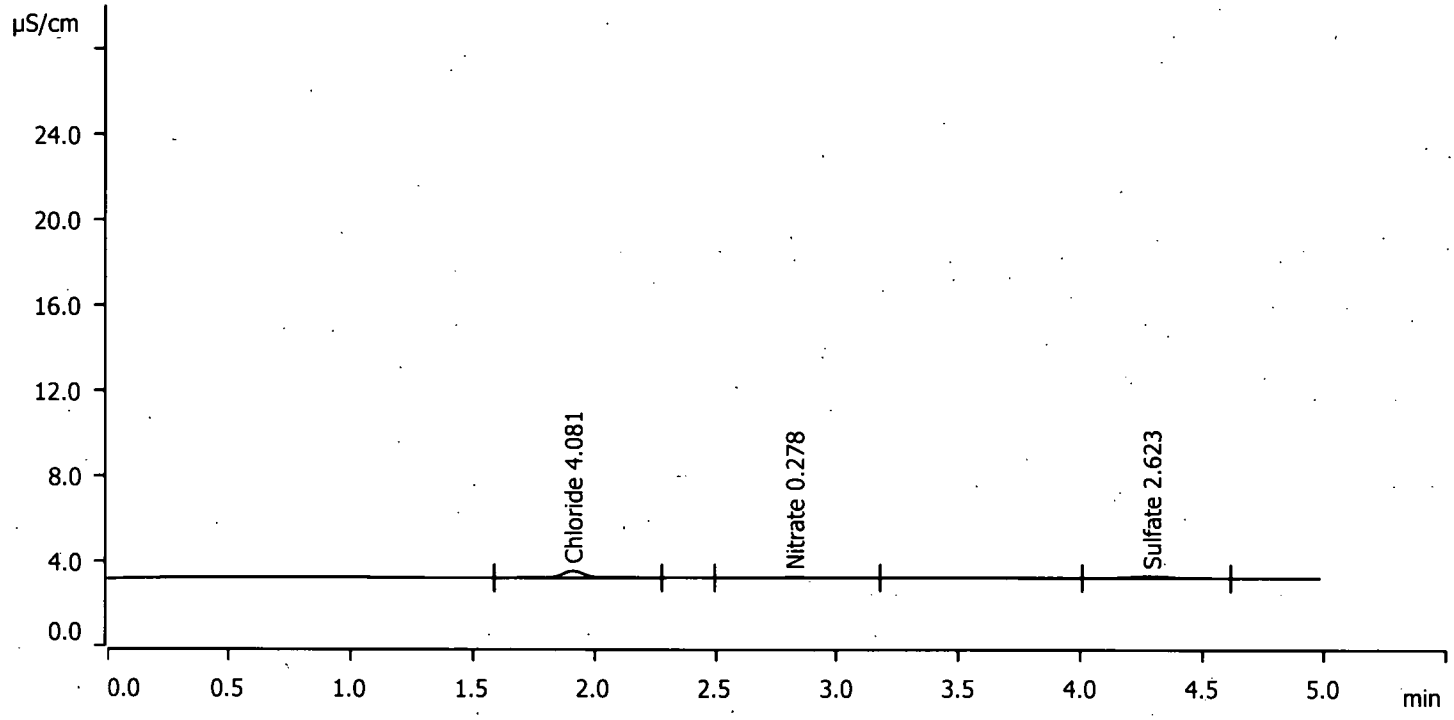
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.131	14.841	Chloride	BB
2	2.82	0.006	0.452	Nitrate	BB
3	4.29	0.023	3.735	Sulfate	BB

Sample data

Ident	R2408253-025
Sample type	Sample
Determination start	2024-09-15 21:12:58 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92394
Sample Position	31
Comment 1	300.0 C
Comment 2	

Anions



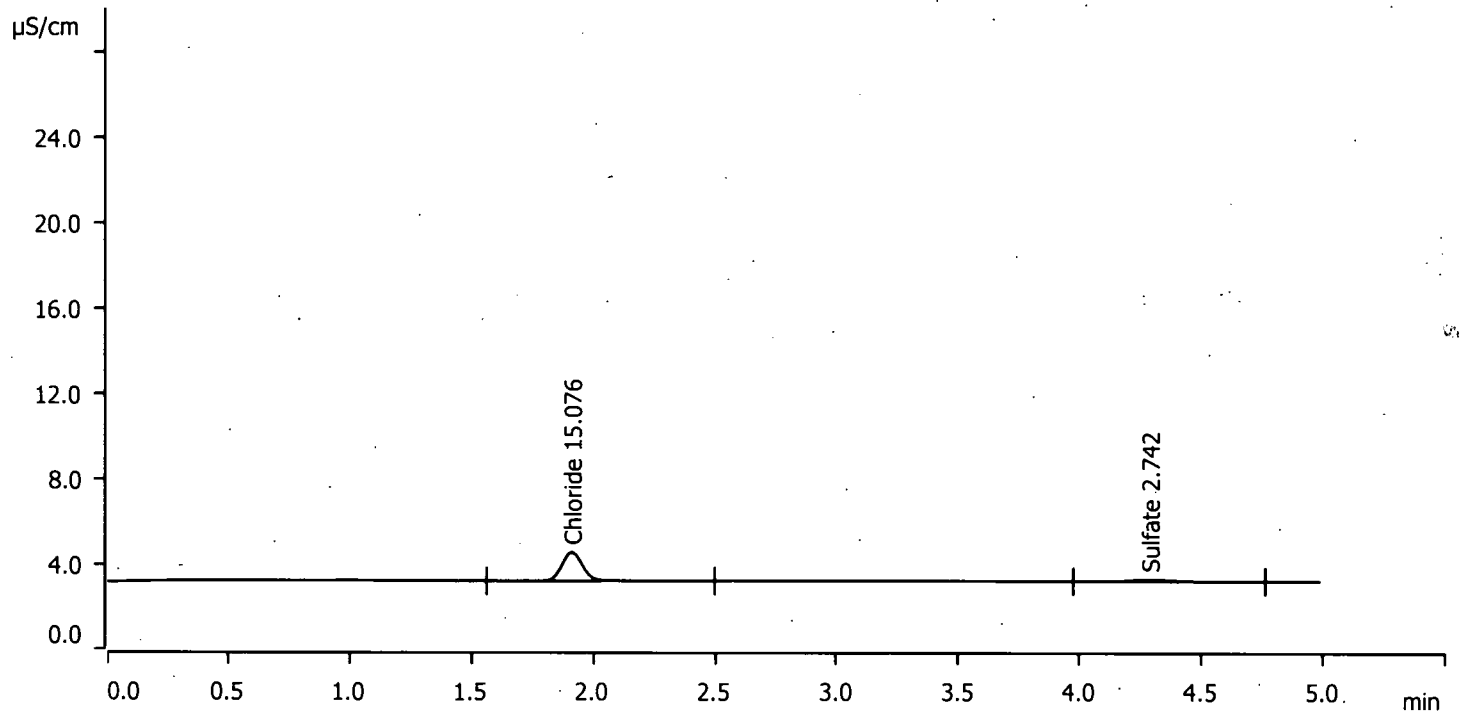
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.033	4.081	Chloride	BB
2	2.82	0.002	0.278	Nitrate	BB
3	4.29	0.016	2.623	Sulfate	BB

Sample data

Ident	R2408253-033
Sample type	Sample
Determination start	2024-09-15 21:19:13 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92395
Sample Position	32
Comment 1	300.0 C
Comment 2	

Anions



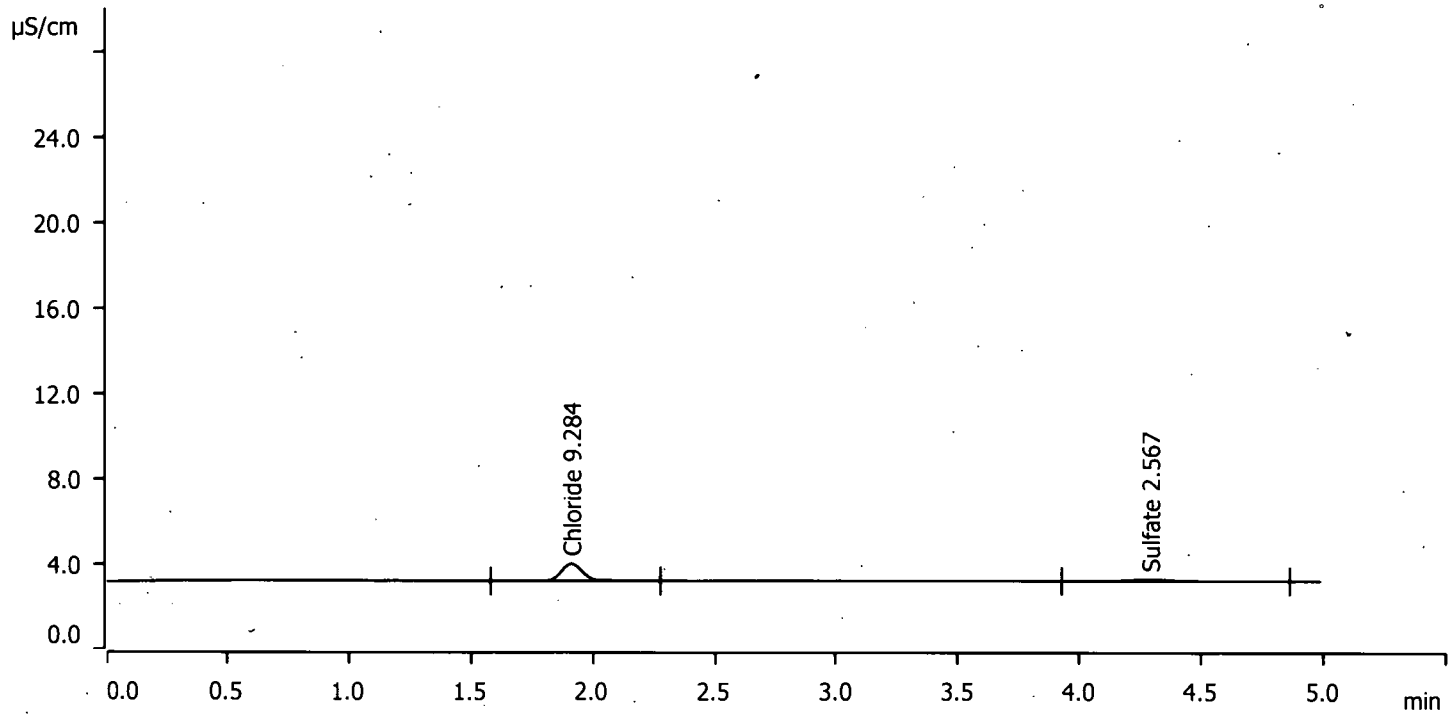
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.133	15.076	Chloride	BB
2	4.29	0.017	2.742	Sulfate	BB

Sample data

Ident	R2408253-035
Sample type	Sample
Determination start	2024-09-15 21:25:27 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92396
Sample Position	33
Comment 1	300.0 C
Comment 2	

Anions



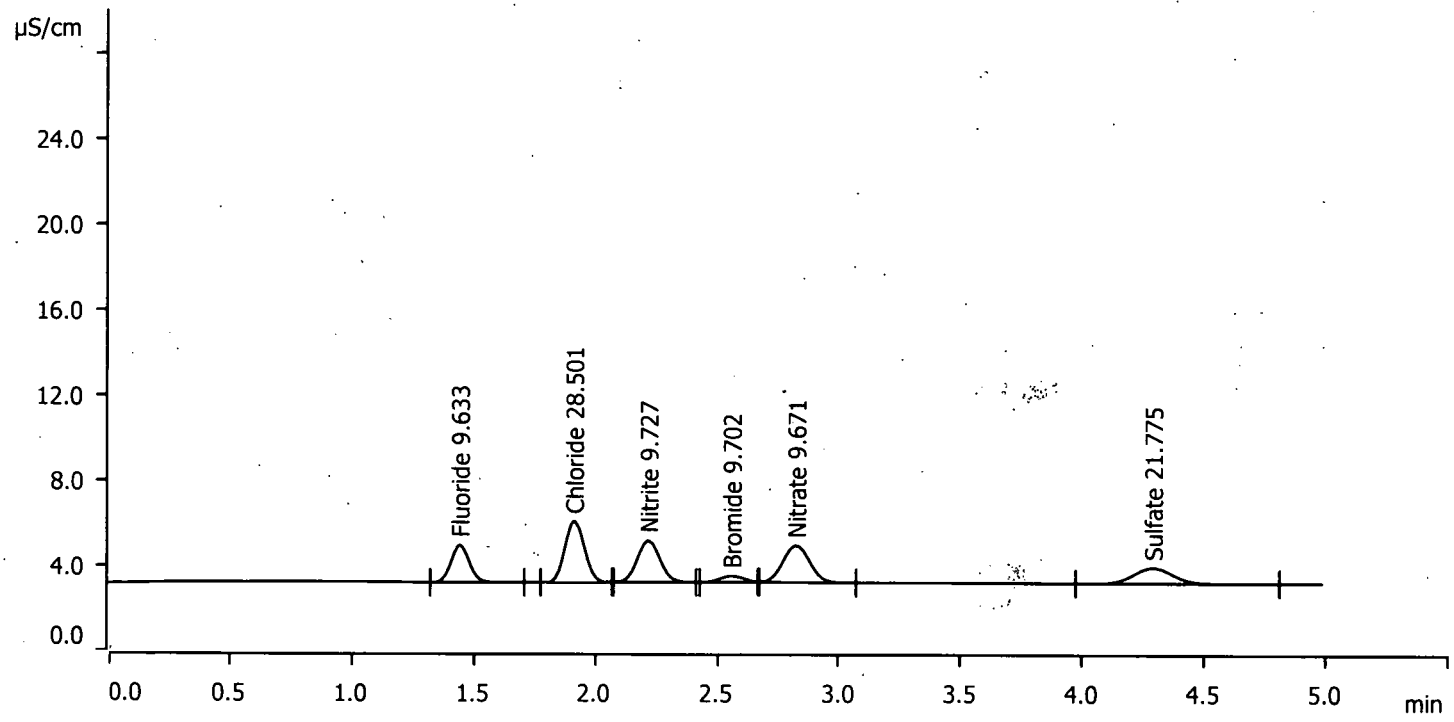
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.079	9.284	Chloride	BB
2	4.29	0.016	2.567	Sulfate	BB

Sample data

Ident	R2408253-035 MS
Sample type	Sample
Determination start	2024-09-15 21:31:42 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92397
Sample Position	34
Comment 1	300.0 C
Comment 2	

Anions



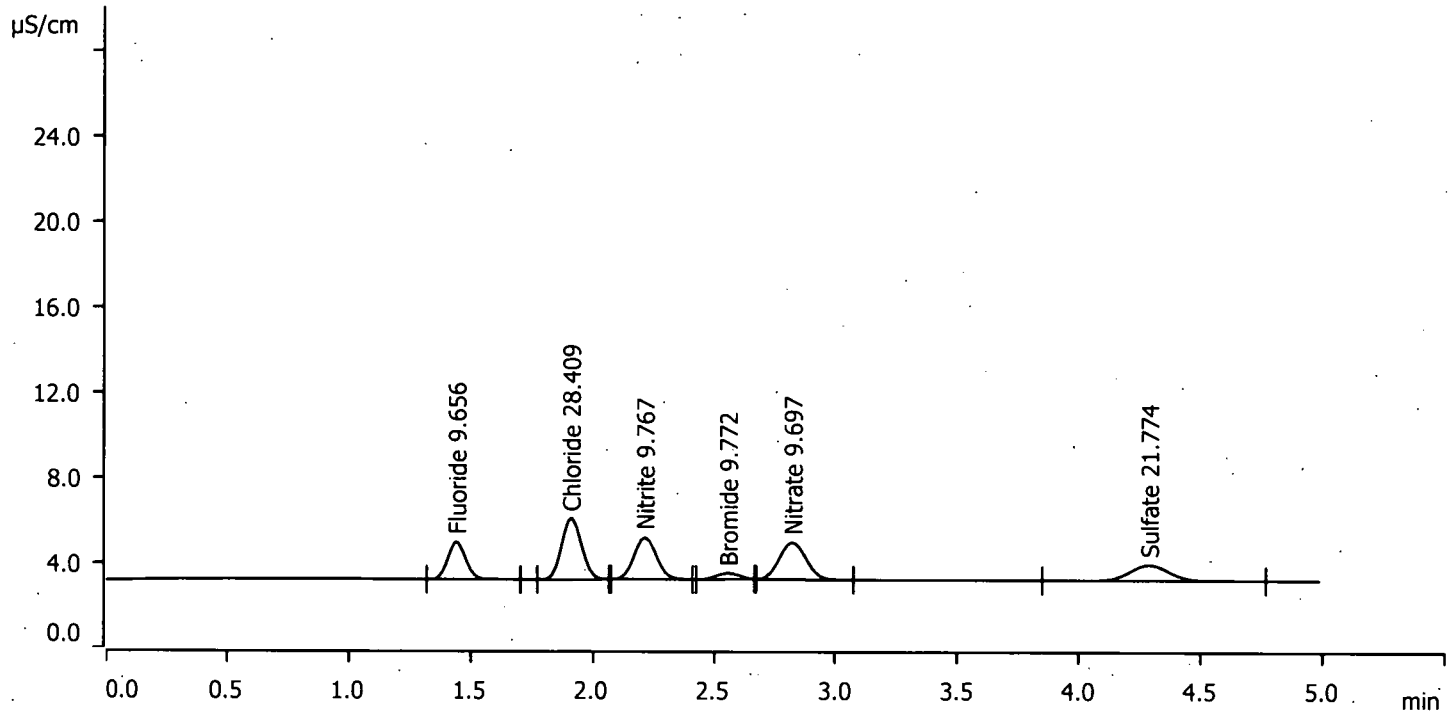
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.151	9.633	Fluoride	BB
2	1.92	0.265	28.501	Chloride	BB
3	2.22	0.210	9.727	Nitrite	BB
4	2.56	0.031	9.702	Bromide	BB
5	2.82	0.217	9.671	Nitrate	BB
6	4.29	0.140	21.775	Sulfate	BB

Sample data

Ident	R2408253-035 MSD
Sample type	Sample
Determination start	2024-09-15 21:37:57 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92398
Sample Position	35
Comment 1	300.0 C
Comment 2	

Anions



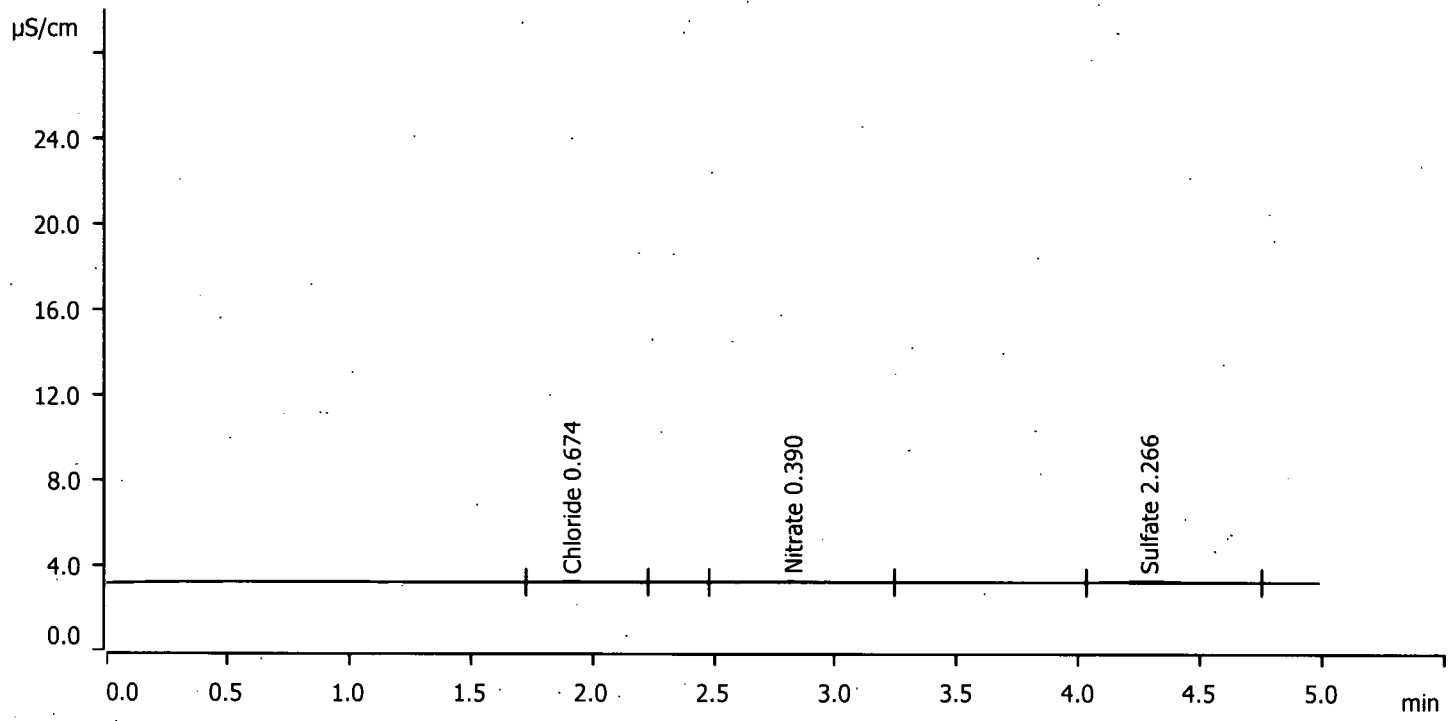
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.151	9.656	Fluoride	BB
2	1.91	0.264	28.409	Chloride	BB
3	2.22	0.211	9.767	Nitrite	BB
4	2.56	0.031	9.772	Bromide	BB
5	2.82	0.218	9.697	Nitrate	BB
6	4.29	0.140	21.774	Sulfate	BB

Sample data

Ident	R2408253-037
Sample type	Sample
Determination start	2024-09-15 21:44:13 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92399
Sample Position	36
Comment 1	300.0 C
Comment 2	

Anions



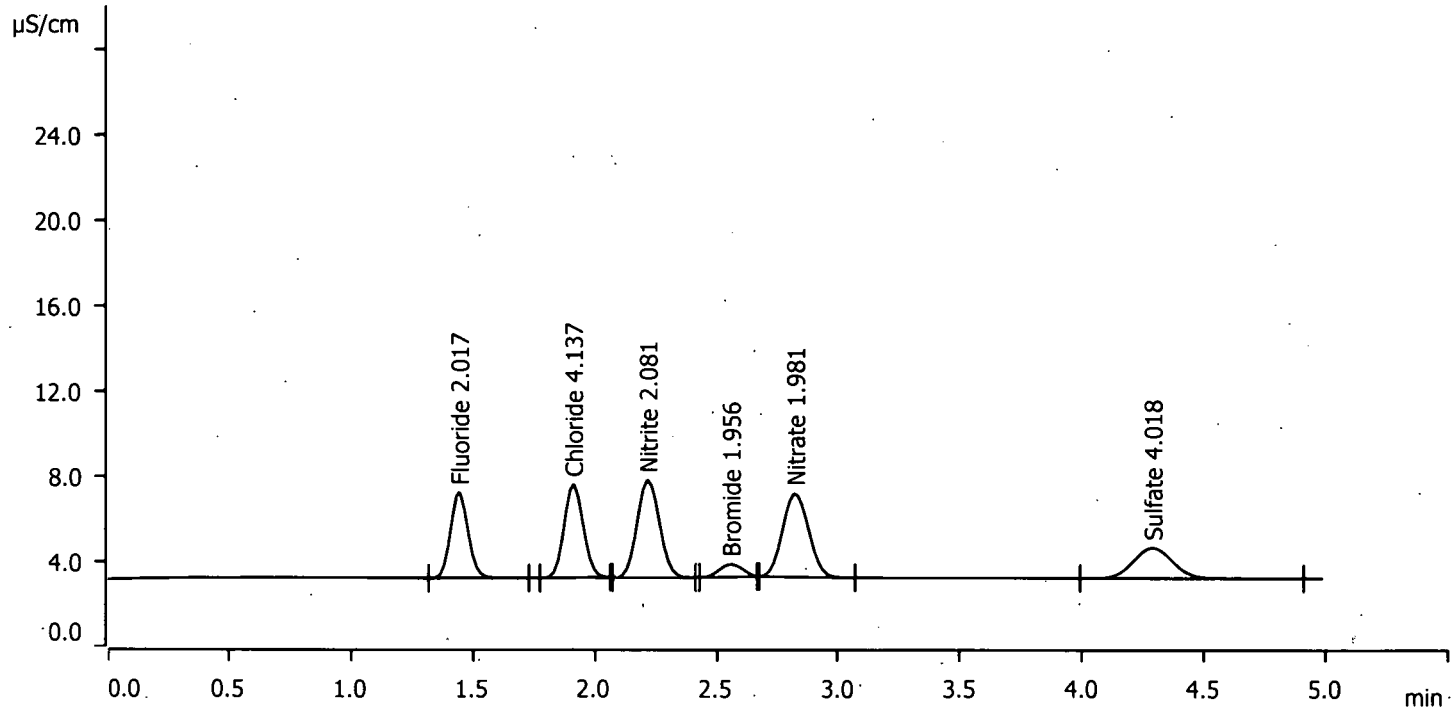
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.004	0.674	Chloride	BB
2	2.82	0.004	0.390	Nitrate	BB
3	4.29	0.014	2.266	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-15 21:50:28 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92400
Sample Position	37
Comment 1	300.0/9056A
Comment 2	

Anions



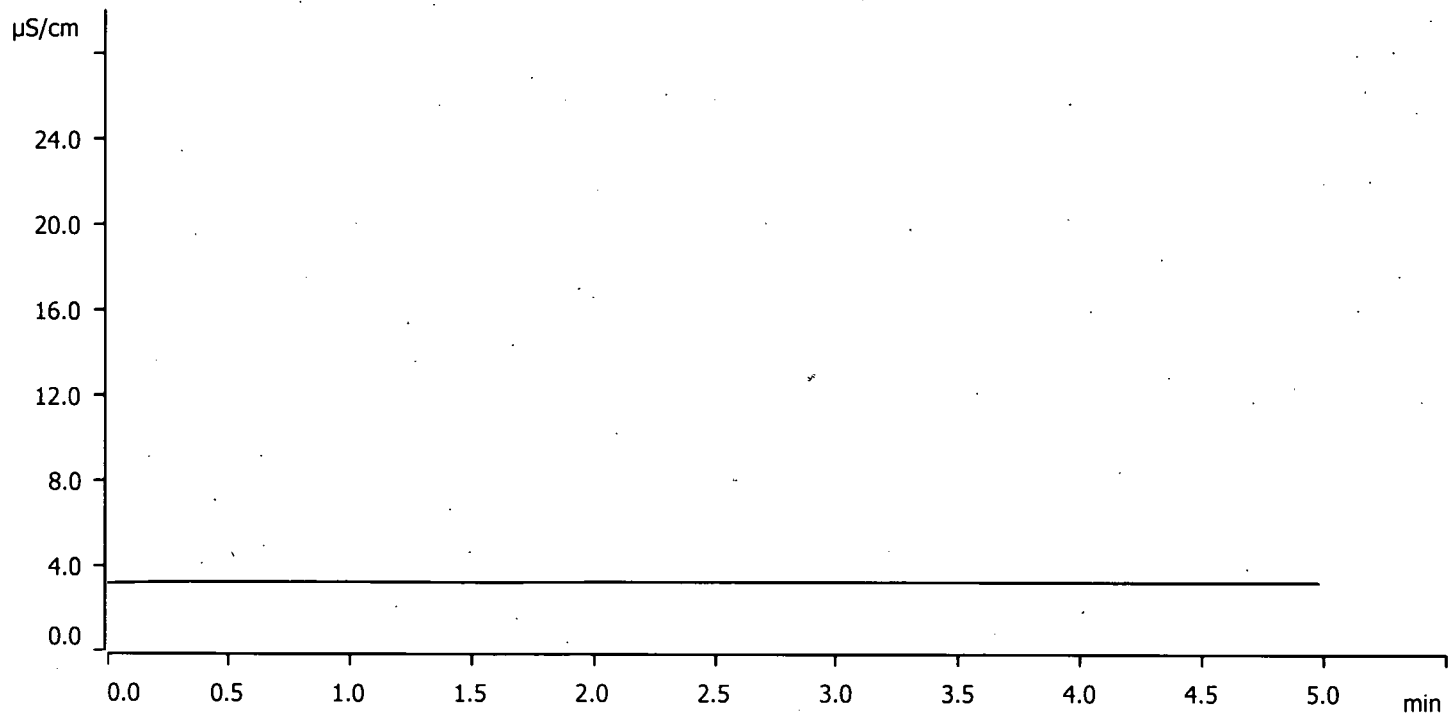
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.338	2.017	Fluoride	BB
2	1.92	0.401	4.137	Chloride	BB
3	2.22	0.481	2.081	Nitrite	BB
4	2.56	0.065	1.956	Bromide	BB
5	2.82	0.482	1.981	Nitrate	BB
6	4.29	0.269	4.018	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-15 21:56:44 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92401
Sample Position	38
Comment 1	300.0/9056A
Comment 2	

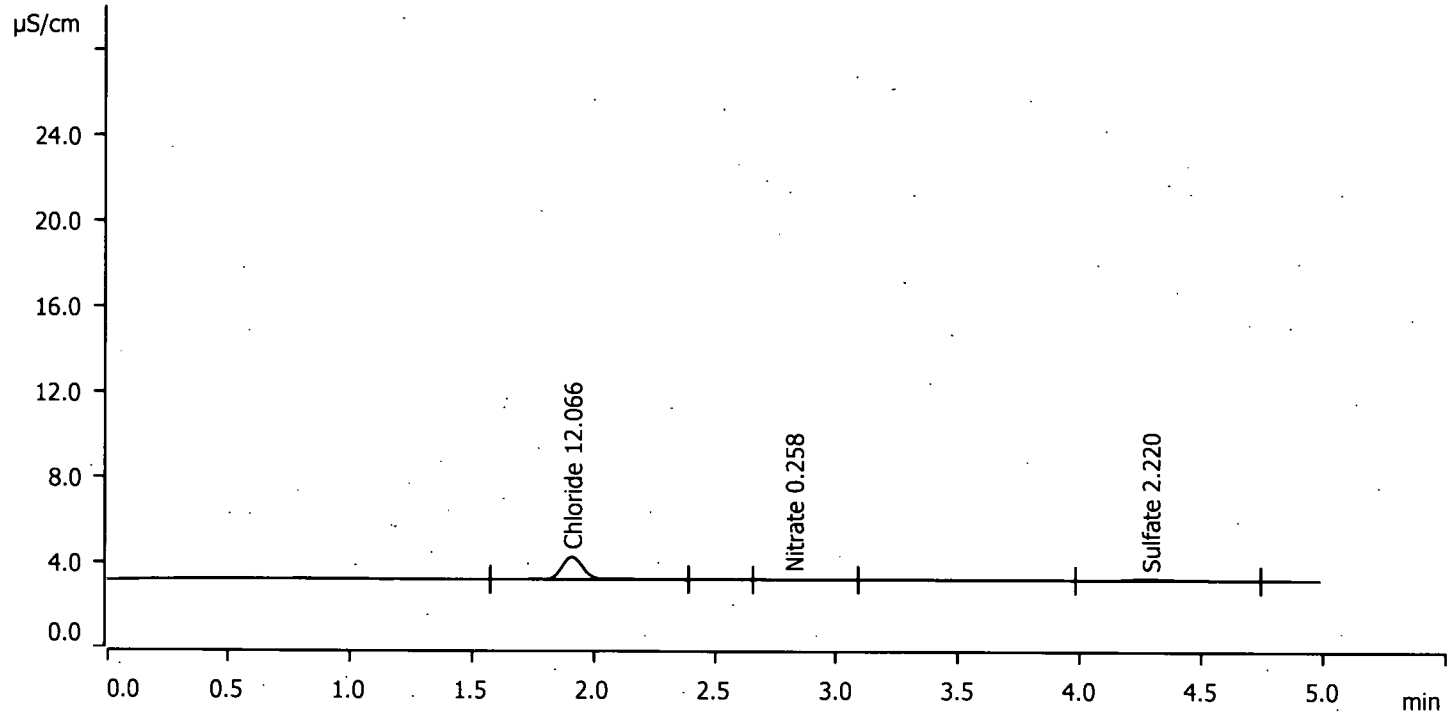
Anions



Sample data

Ident	R2408253-039
Sample type	Sample
Determination start	2024-09-15 22:02:58 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92402
Sample Position	39
Comment 1	300.0 C
Comment 2	

Anions



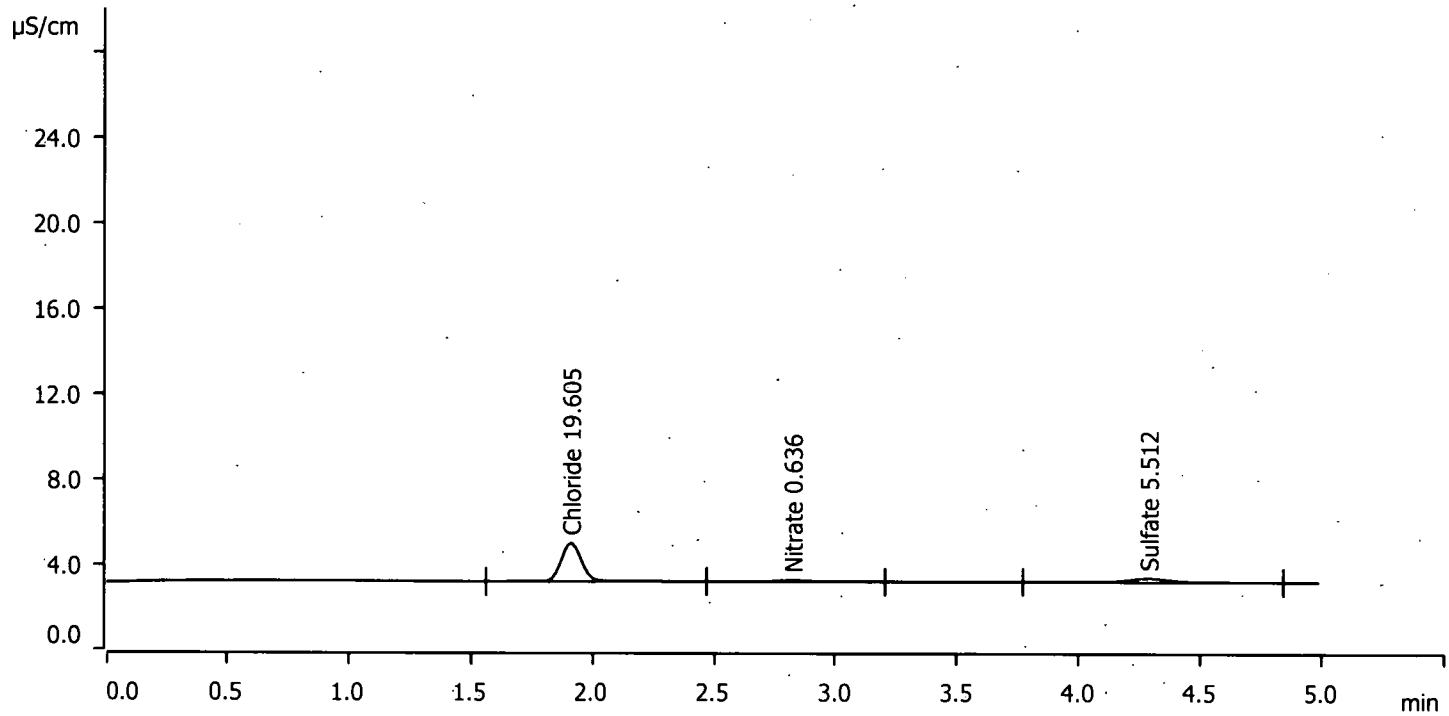
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.105	12.066	Chloride	BB
2	2.82	0.001	0.258	Nitrate	BB
3	4.29	0.014	2.220	Sulfate	BB

Sample data

Ident	R2408254-023
Sample type	Sample
Determination start	2024-09-15 22:09:13 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92403
Sample Position	40
Comment 1	300.0 C
Comment 2	

Anions



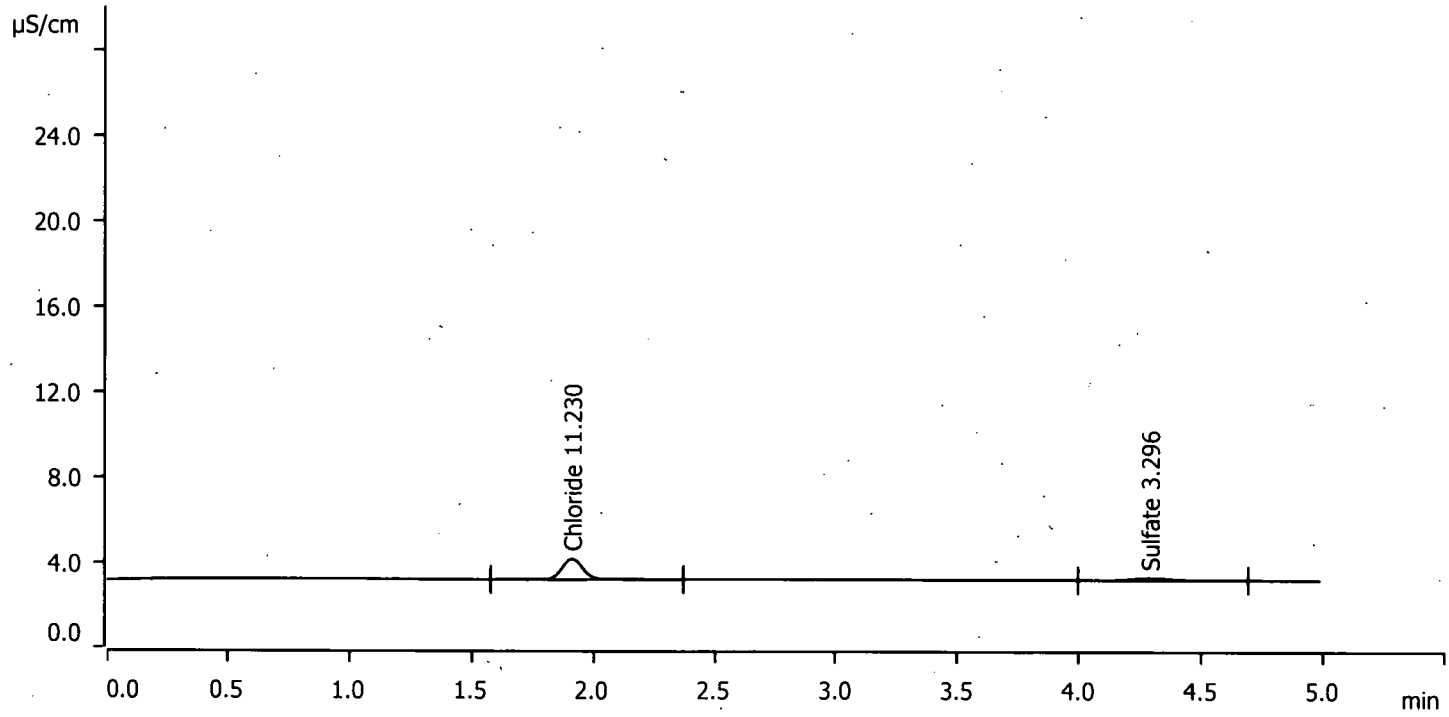
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.176	19.605	Chloride	BB
2	2.82	0.010	0.636	Nitrate	BB
3	4.29	0.034	5.512	Sulfate	BB

Sample data

Ident	R2408254-025
Sample type	Sample
Determination start	2024-09-15 22:15:28 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92404
Sample Position	41
Comment 1	300.0 C
Comment 2	

Anions



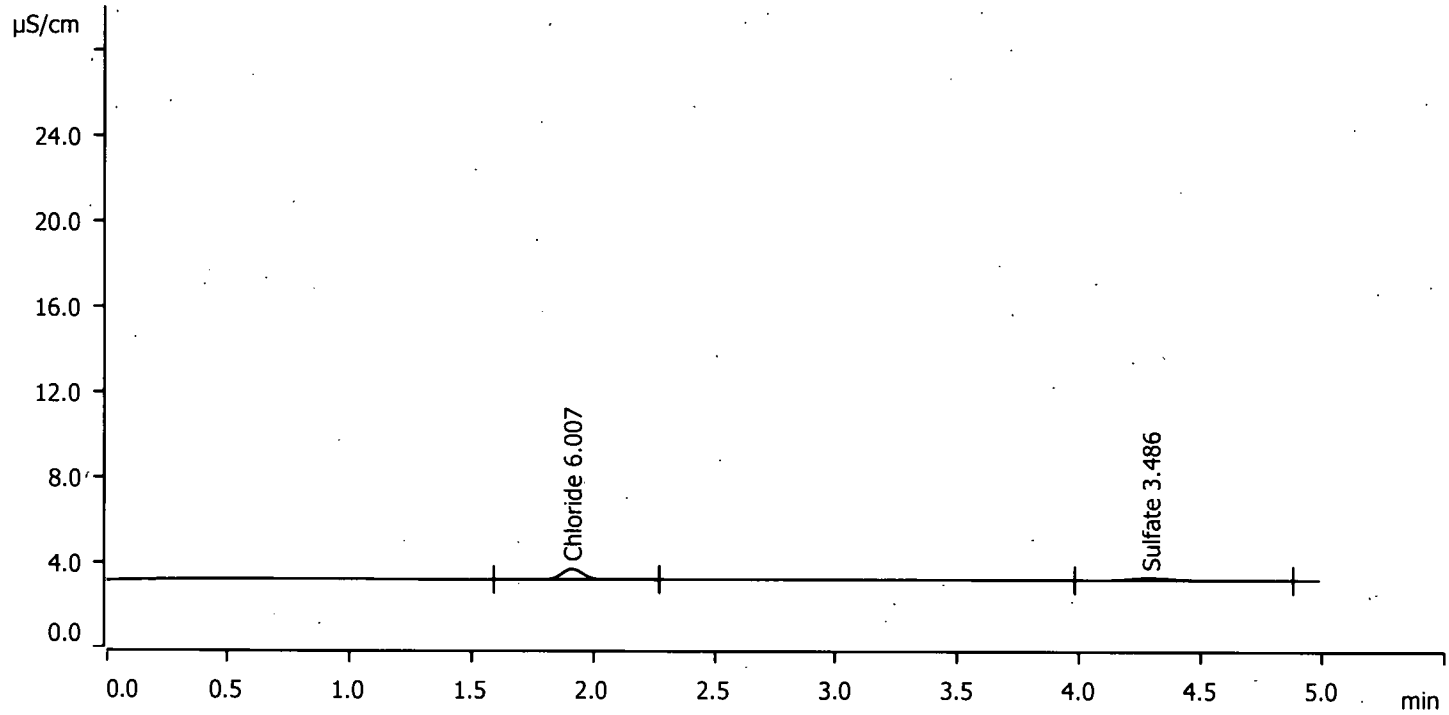
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.097	11.230	Chloride	BB
2	4.29	0.020	3.296	Sulfate	BB

Sample data

Ident	R2408254-027
Sample type	Sample
Determination start	2024-09-15 22:21:42 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92405
Sample Position	42
Comment 1	300.0 C
Comment 2	

Anions



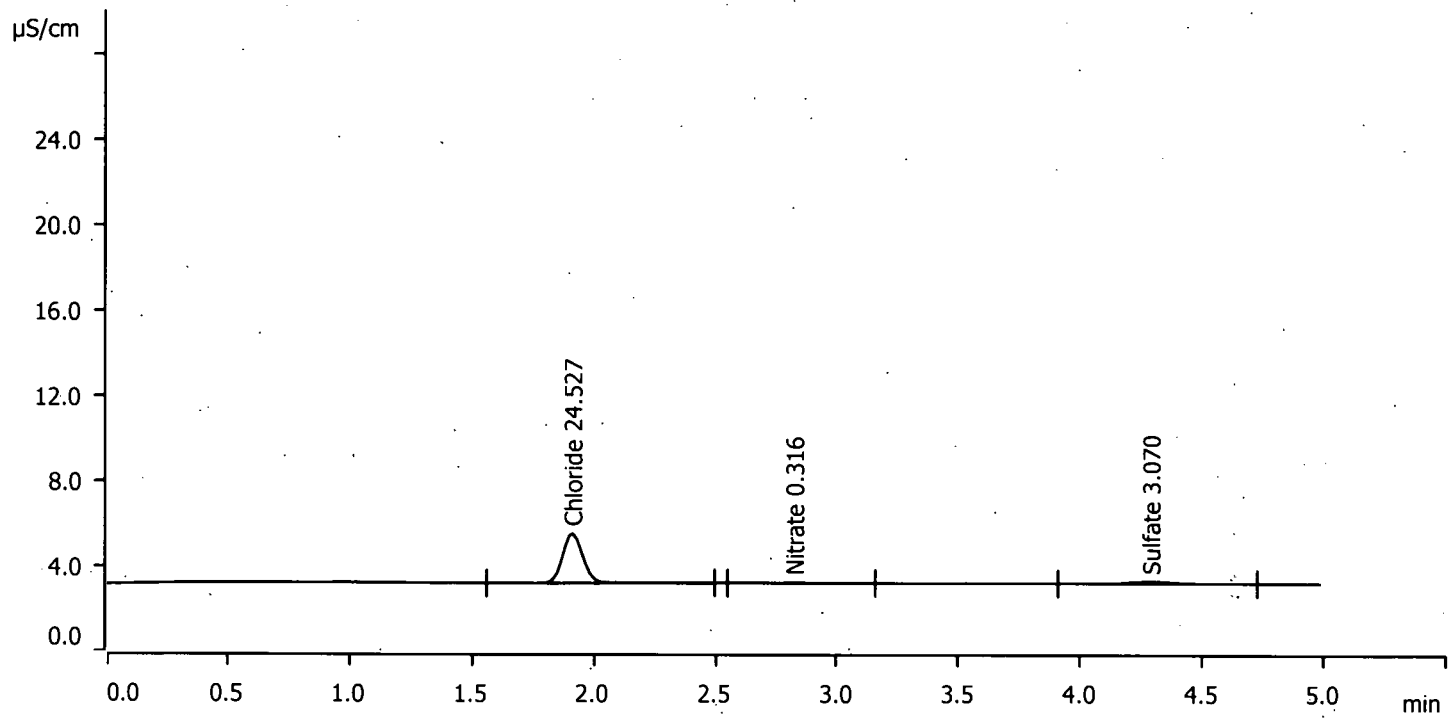
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.050	6.007	Chloride	BB
2	4.29	0.022	3.486	Sulfate	BB

Sample data

Ident	R2408254-029
Sample type	Sample
Determination start	2024-09-15 22:27:57 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92406
Sample Position	43
Comment 1	300.0 C
Comment 2	

Anions



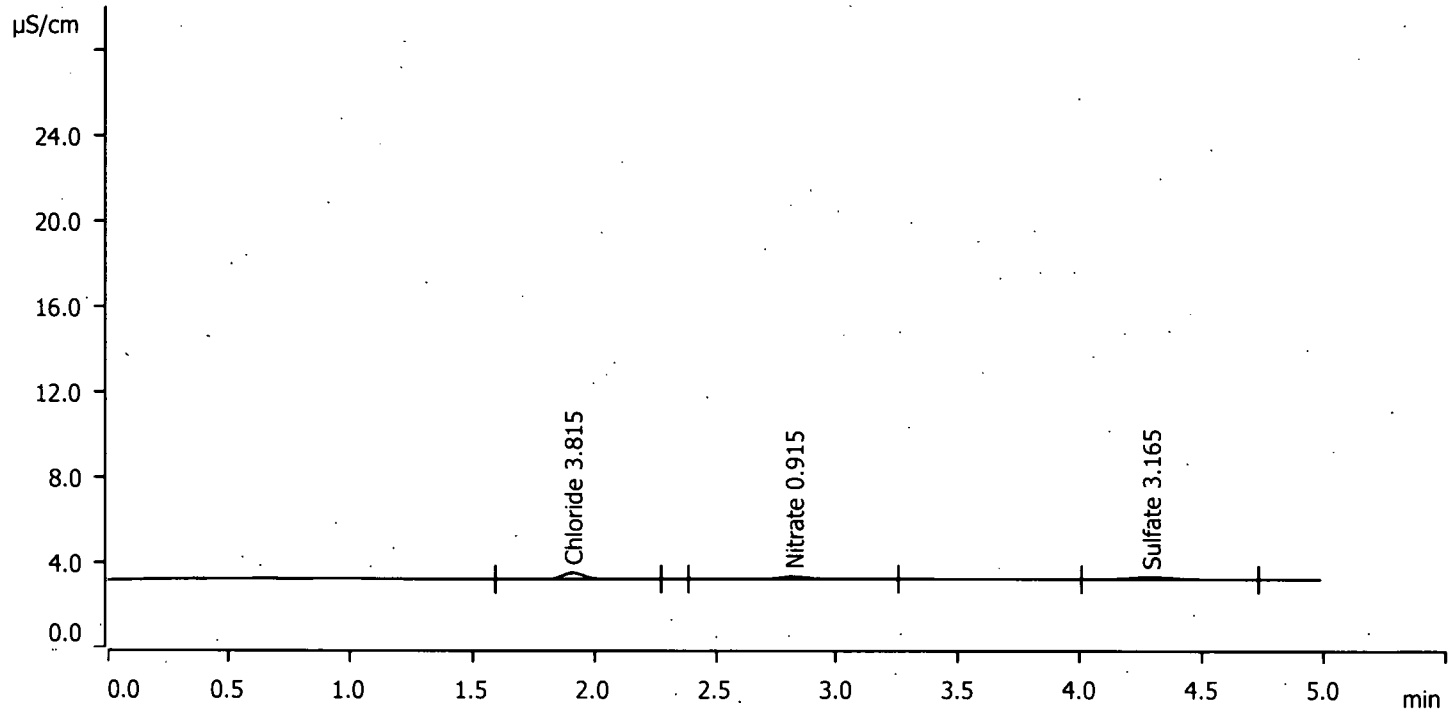
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.224	24.527	Chloride	BB
2	2.82	0.003	0.316	Nitrate	BB
3	4.29	0.019	3.070	Sulfate	BB

Sample data

Ident	R2408254-031
Sample type	Sample
Determination start	2024-09-15 22:34:12 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92407
Sample Position	44
Comment 1	300.0 C
Comment 2	

Anions



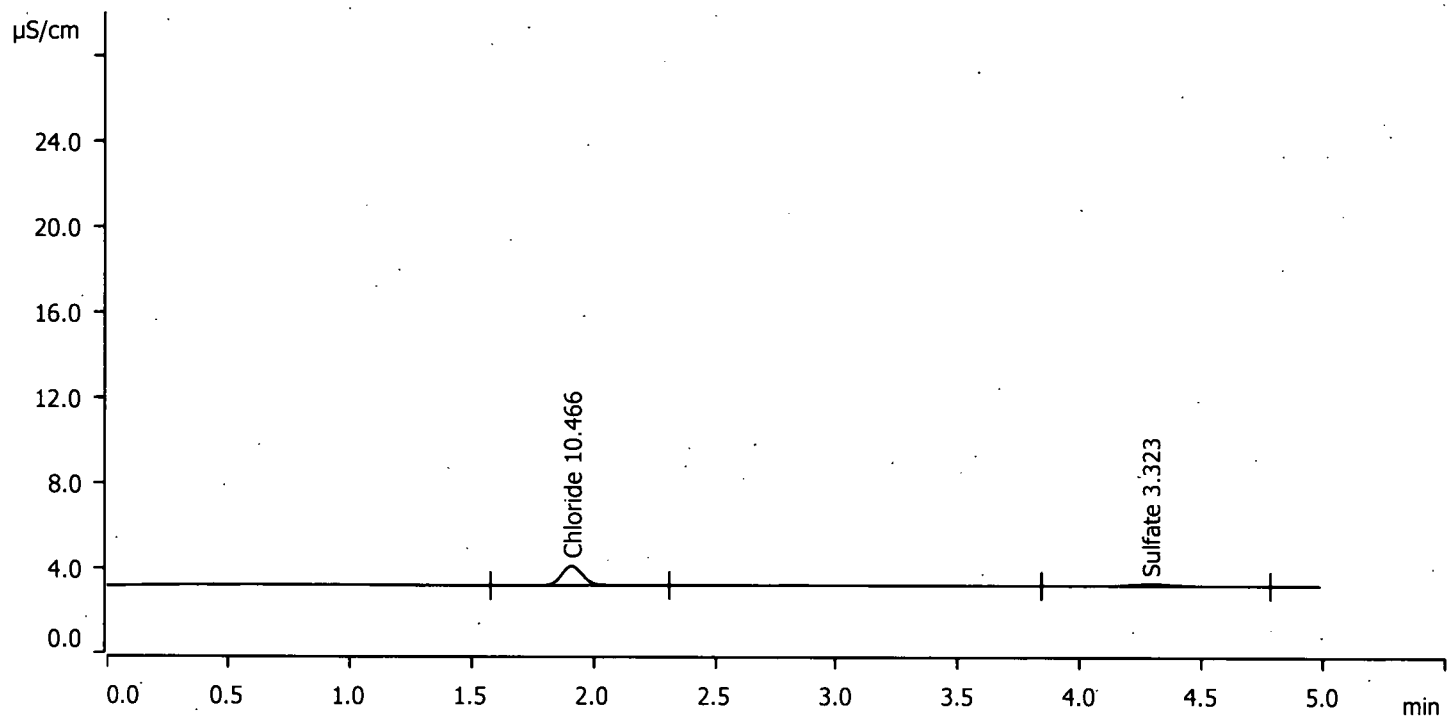
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.031	3.815	Chloride	BB
2	2.82	0.016	0.915	Nitrate	BB
3	4.29	0.020	3.165	Sulfate	BB

Sample data

Ident	R2408254-033
Sample type	Sample
Determination start	2024-09-15 22:40:26 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92408
Sample Position	45
Comment 1	300.0 C
Comment 2	

Anions



Anions

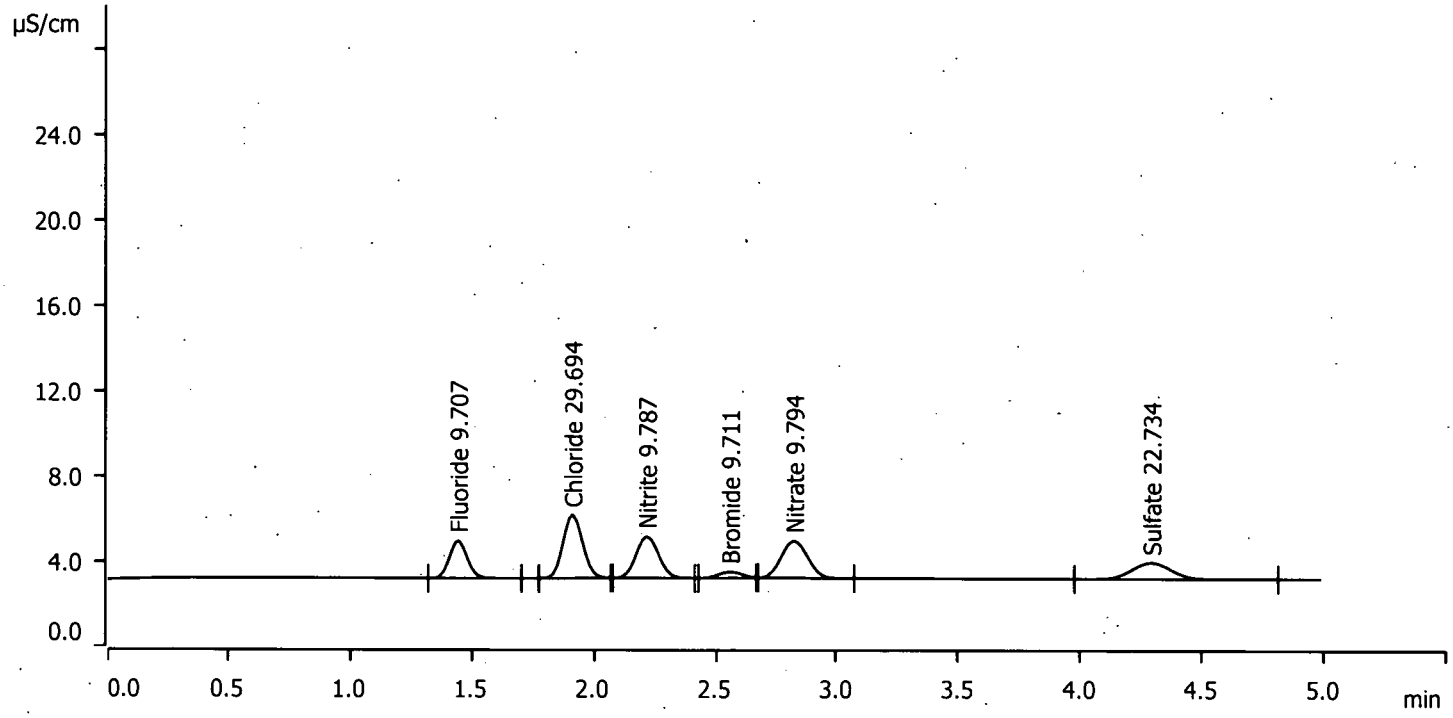
Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.090	10.466	Chloride	BB
2	4.29	0.021	3.323	Sulfate	BB

Page 1 of 1

Sample data

Ident	R2408254-033 MS
Sample type	Sample
Determination start	2024-09-15 22:46:45 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92409
Sample Position	46
Comment 1	300.0 C
Comment 2	

Anions



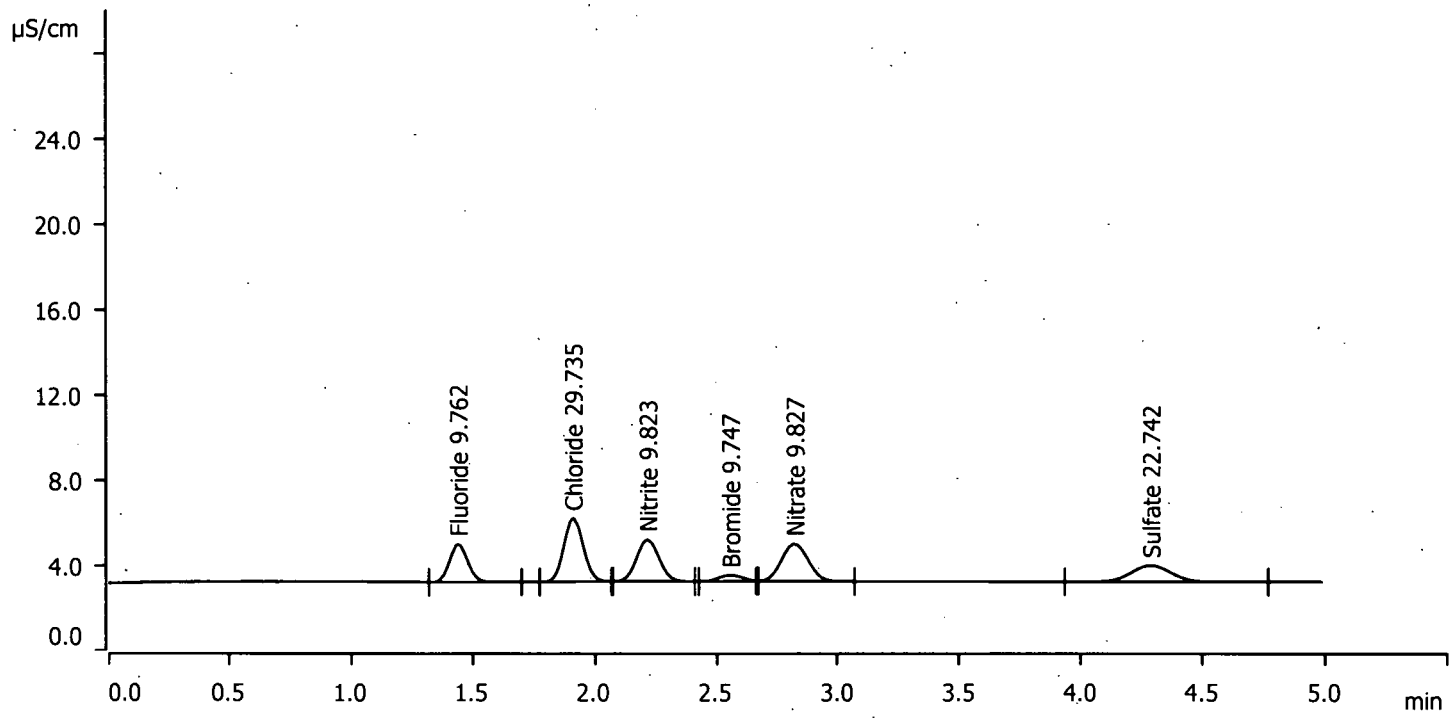
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.152	9.707	Fluoride	BB
2	1.92	0.277	29.694	Chloride	BB
3	2.22	0.211	9.787	Nitrite	BB
4	2.56	0.031	9.711	Bromide	BB
5	2.82	0.220	9.794	Nitrate	BB
6	4.29	0.147	22.734	Sulfate	BB

Sample data

Ident	R2408254-033 MSD
Sample type	Sample
Determination start	2024-09-15 22:53:00 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92410
Sample Position	47
Comment 1	300.0 C
Comment 2	

Anions



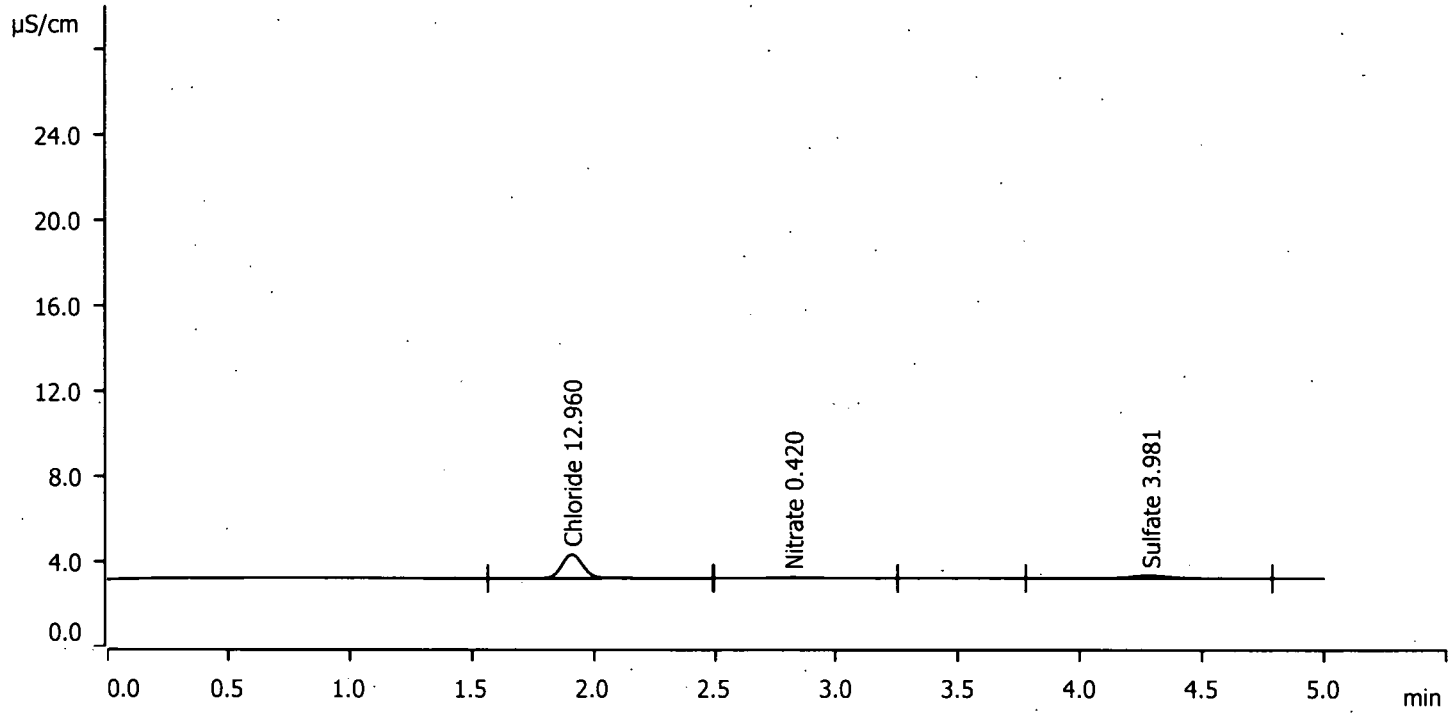
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.153	9.762	Fluoride	BB
2	1.91	0.277	29.735	Chloride	BB
3	2.22	0.212	9.823	Nitrite	BB
4	2.56	0.031	9.747	Bromide	BB
5	2.82	0.221	9.827	Nitrate	BB
6	4.29	0.147	22.742	Sulfate	BB

Sample data

Ident	R2408254-035
Sample type	Sample
Determination start	2024-09-15 22:59:16 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92411
Sample Position	48
Comment 1	300.0 C
Comment 2	

Anions



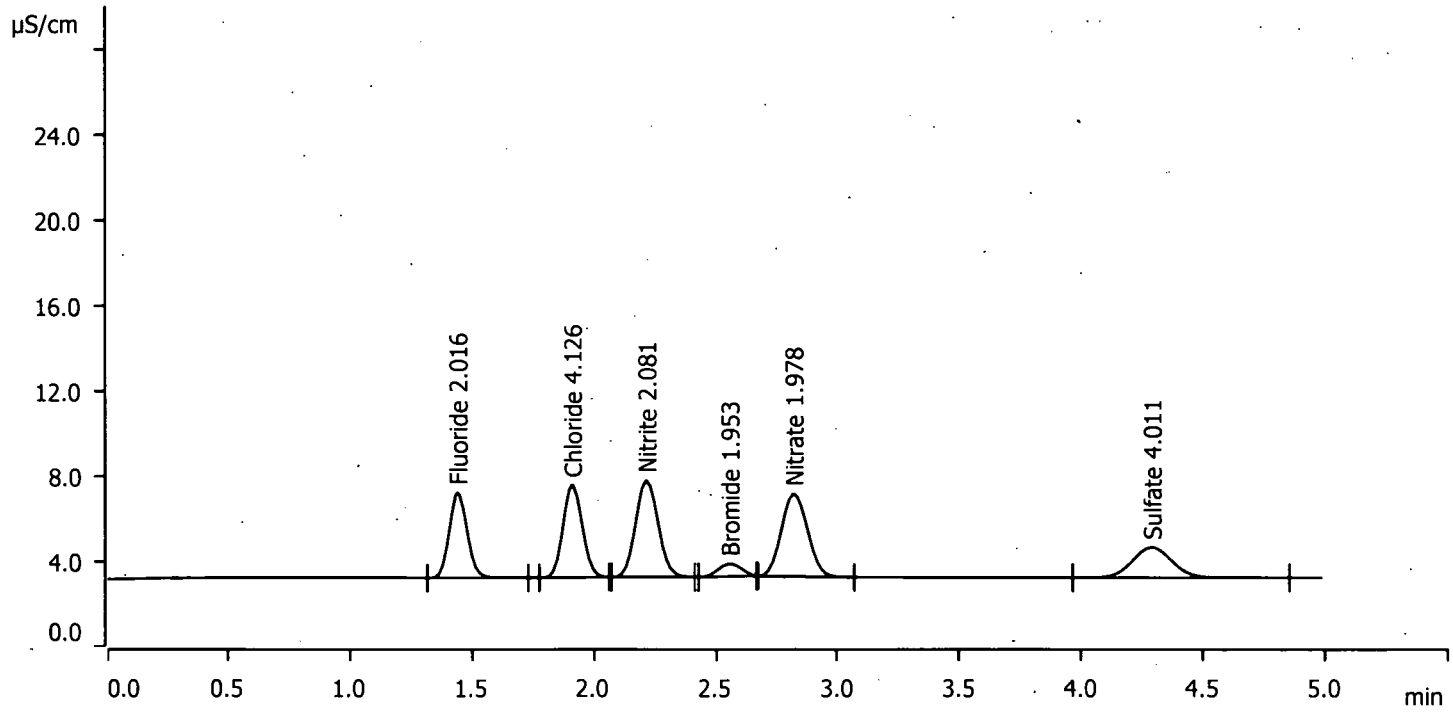
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.90	0.113	12.960	Chloride	BB
2	2.81	0.005	0.420	Nitrate	BB
3	4.27	0.025	3.981	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-15 23:05:31 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92412
Sample Position	49
Comment 1	300.0/9056A
Comment 2	

Anions



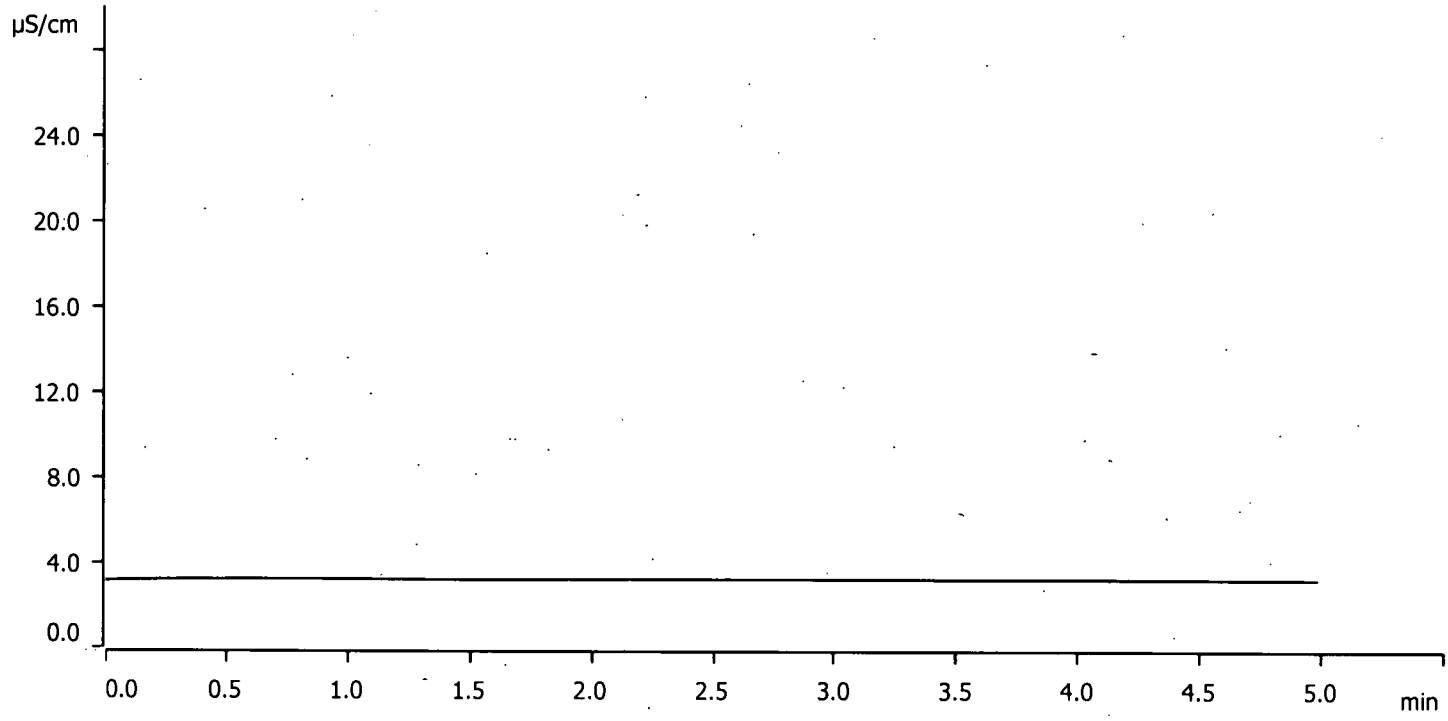
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.338	2.016	Fluoride	BB
2	1.91	0.400	4.126	Chloride	BB
3	2.22	0.481	2.081	Nitrite	BB
4	2.56	0.065	1.953	Bromide	BB
5	2.82	0.481	1.978	Nitrate	BB
6	4.29	0.268	4.011	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-15 23:11:47 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92413
Sample Position	50
Comment 1	300.0/9056A
Comment 2	

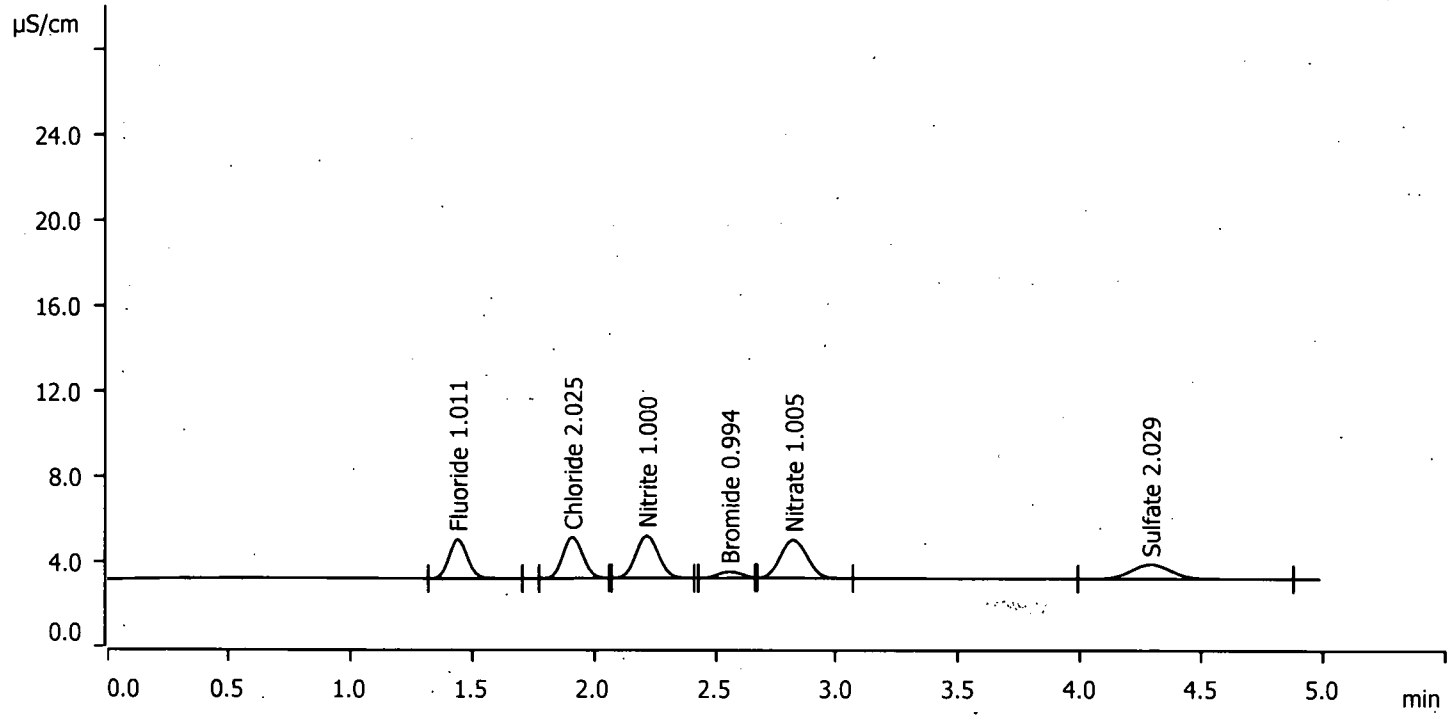
Anions



Sample data

Ident	LCS
Sample type	Check standard 2
Determination start	2024-09-15 23:18:02 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92414
Sample Position	51
Comment 1	300.0/9056A
Comment 2	

Anions



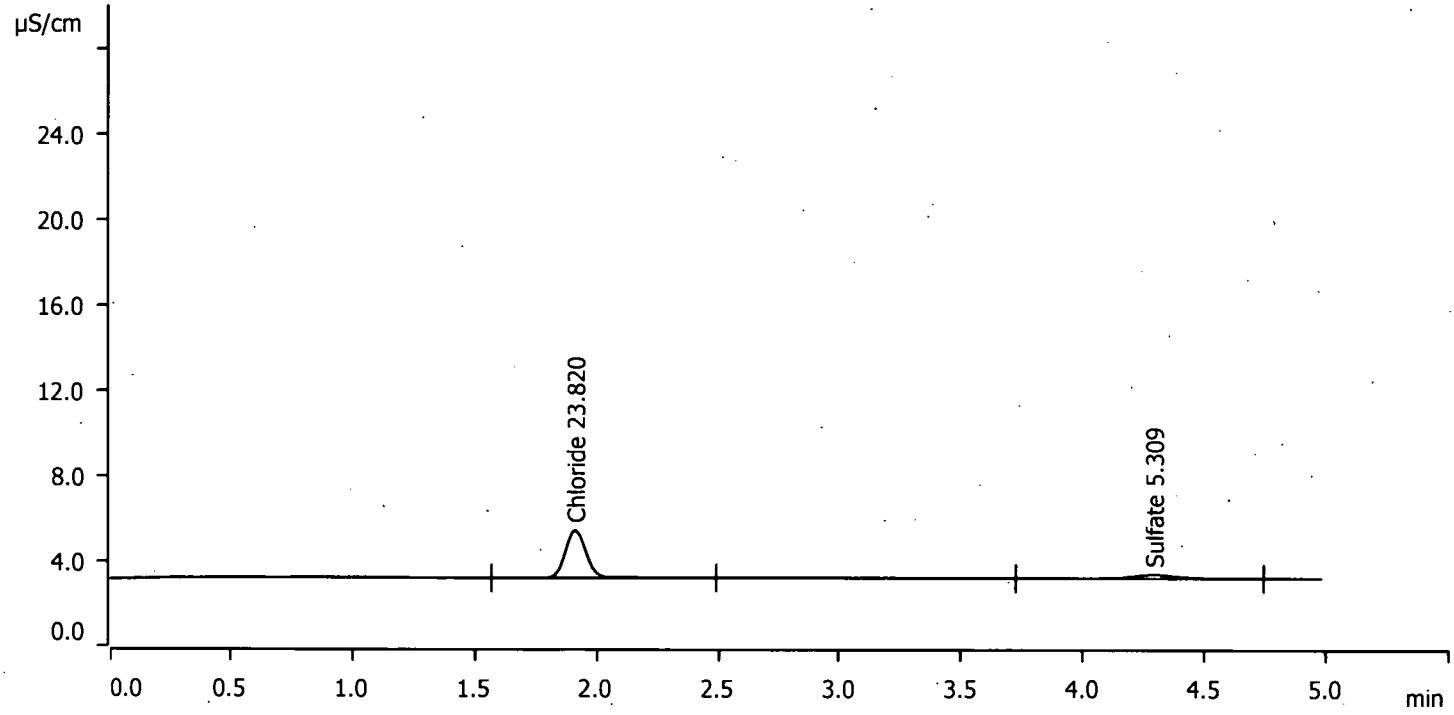
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.159	1.011	Fluoride	BB
2	1.91	0.182	2.025	Chloride	BB
3	2.22	0.216	1.000	Nitrite	BB
4	2.56	0.032	0.994	Bromide	BB
5	2.82	0.226	1.005	Nitrate	BB
6	4.29	0.130	2.029	Sulfate	BB

Sample data

Ident	R2408254-037
Sample type	Sample
Determination start	2024-09-15 23:24:18 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92415
Sample Position	52
Comment 1	300.0 C
Comment 2	

Anions



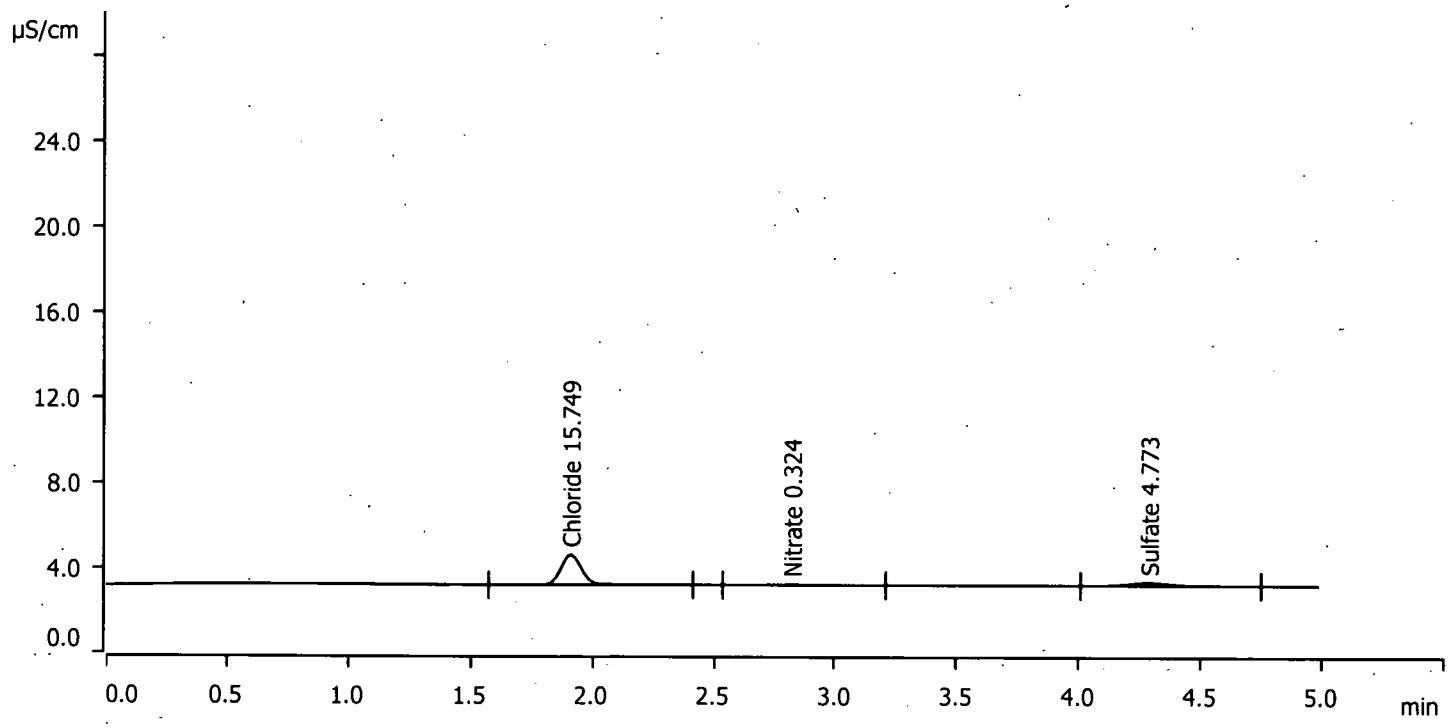
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.217	23.820	Chloride	BB
2	4.29	0.033	5.309	Sulfate	BB

Sample data

Ident	R2408254-039
Sample type	Sample
Determination start	2024-09-15 23:30:32 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92416
Sample Position	53
Comment 1	300.0 C
Comment 2	

Anions



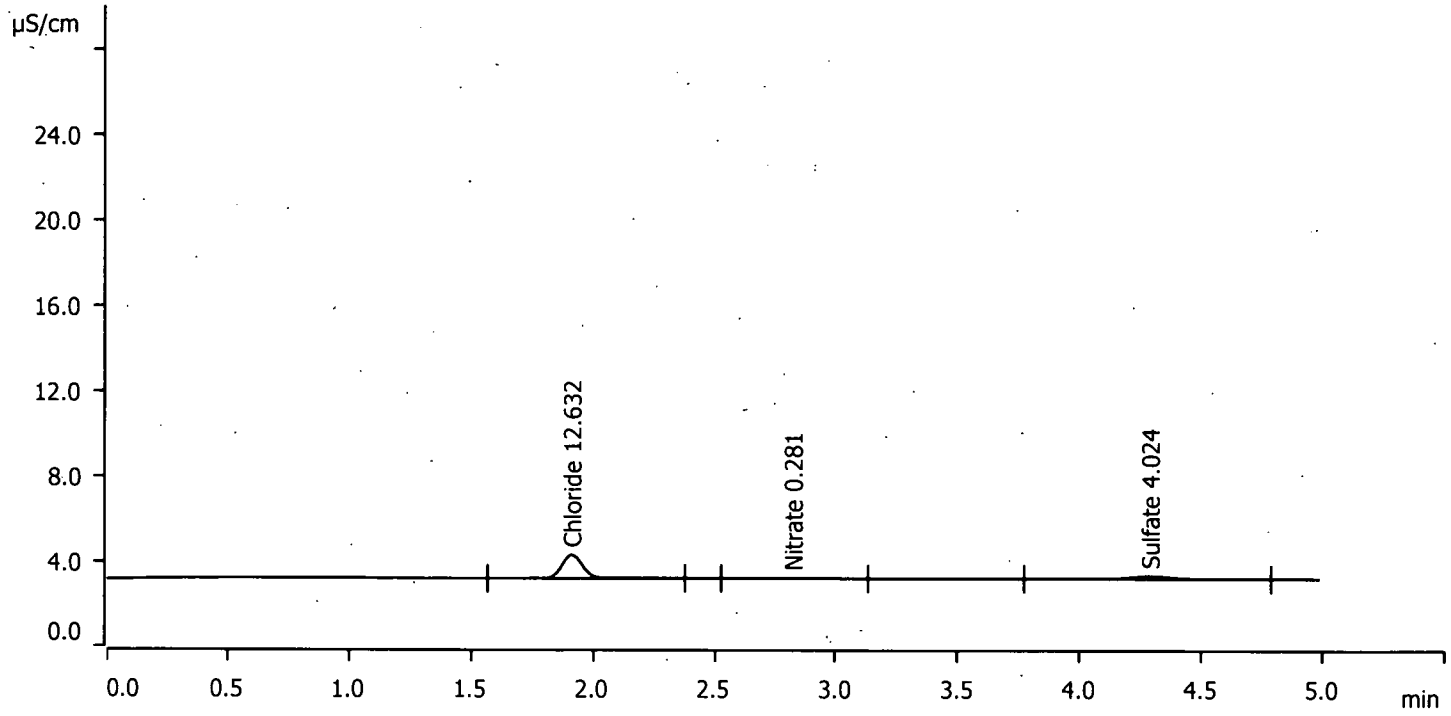
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.139	15.749	Chloride	BB
2	2.82	0.003	0.324	Nitrate	BB
3	4.29	0.030	4.773	Sulfate	BB

Sample data

Ident	R2408253-001
Sample type	Sample
Determination start	2024-09-15 23:36:47 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92417
Sample Position	54
Comment 1	300.0 C
Comment 2	

Anions



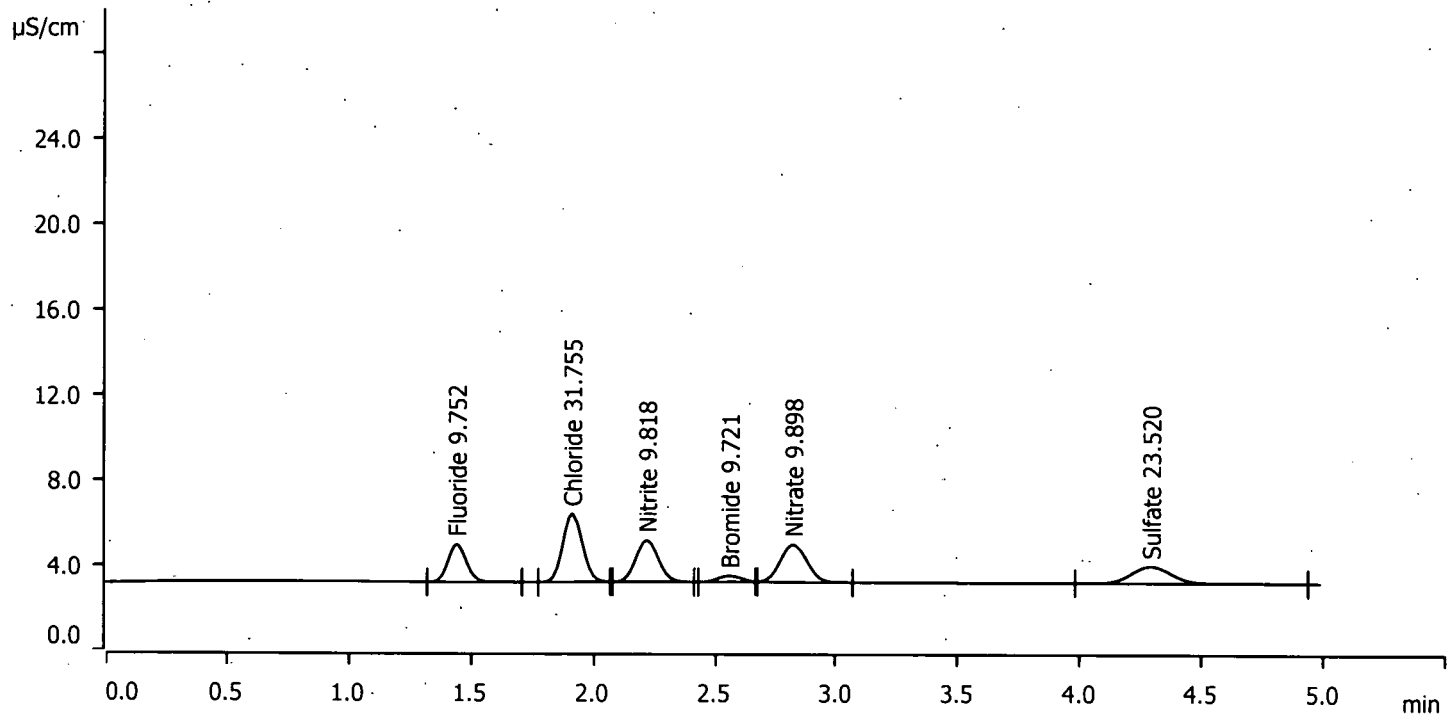
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.110	12.632	Chloride	BB
2	2.82	0.002	0.281	Nitrate	BB
3	4.29	0.025	4.024	Sulfate	BB

Sample data

Ident	R2408253-001 MS!
Sample type	Sample
Determination start	2024-09-15 23:43:02 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92418
Sample Position	55
Comment 1	300.0 C
Comment 2	

Anions



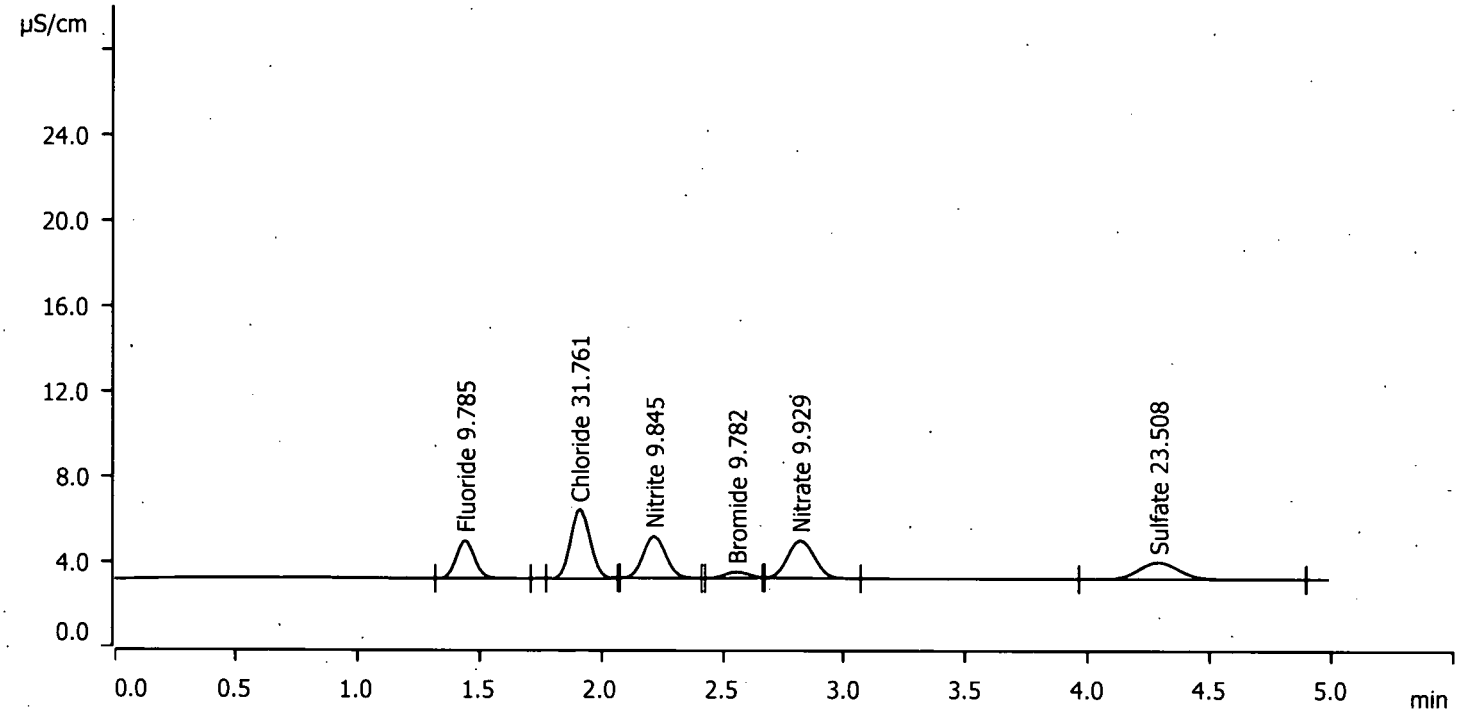
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.153	9.752	Fluoride	BB
2	1.91	0.298	31.755	Chloride	BB
3	2.22	0.212	9.818	Nitrite	BB
4	2.56	0.031	9.721	Bromide	BB
5	2.82	0.222	9.898	Nitrate	BB
6	4.29	0.152	23.520	Sulfate	BB

Sample data

Ident	R2408253-001 MSD!
Sample type	Sample
Determination start	2024-09-15 23:49:17 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92419
Sample Position	56
Comment 1	300.0 C
Comment 2	

Anions



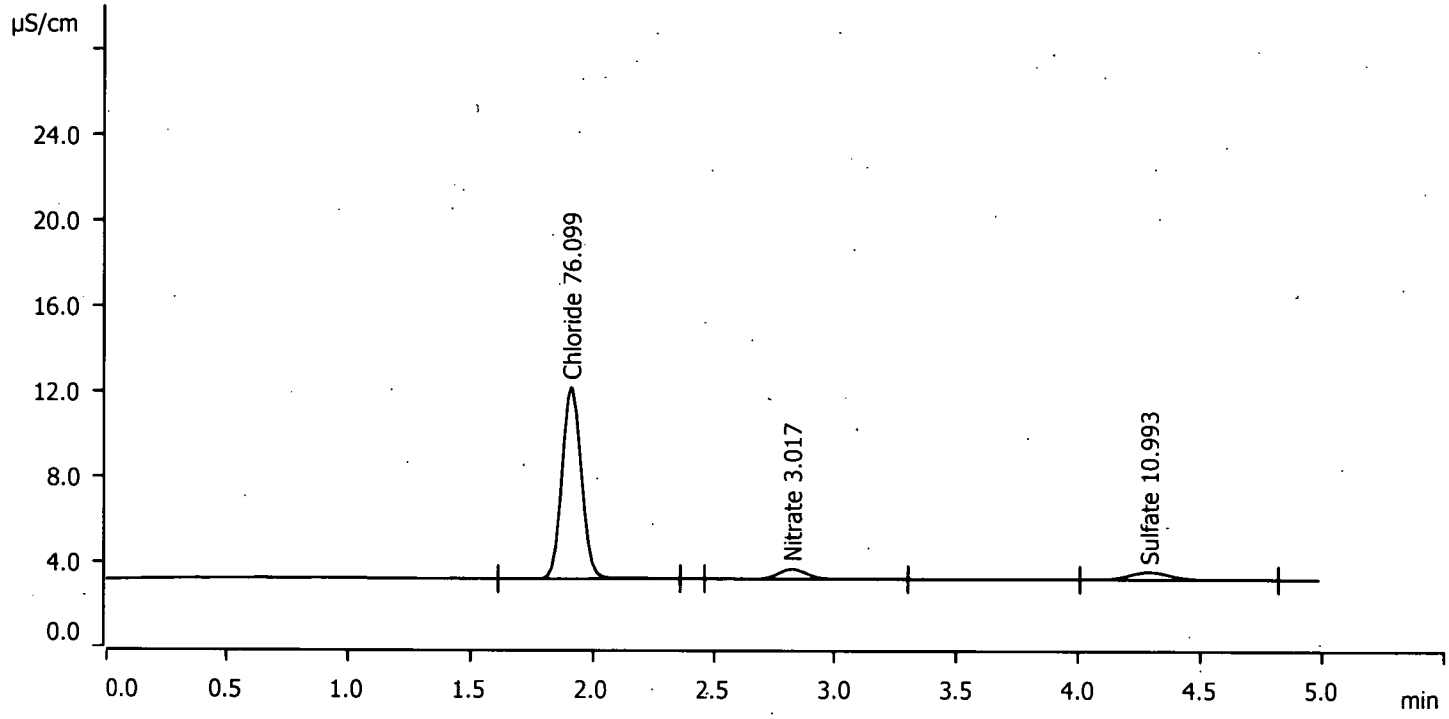
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.153	9.785	Fluoride	BB
2	1.91	0.298	31.761	Chloride	BB
3	2.22	0.212	9.845	Nitrite	BB
4	2.56	0.031	9.782	Bromide	BB
5	2.82	0.223	9.929	Nitrate	BB
6	4.29	0.152	23.508	Sulfate	BB

Sample data

Ident	R2408253-003
Sample type	Sample
Determination start	2024-09-15 23:55:32 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92420
Sample Position	57
Comment 1	300.0 C
Comment 2	

Anions



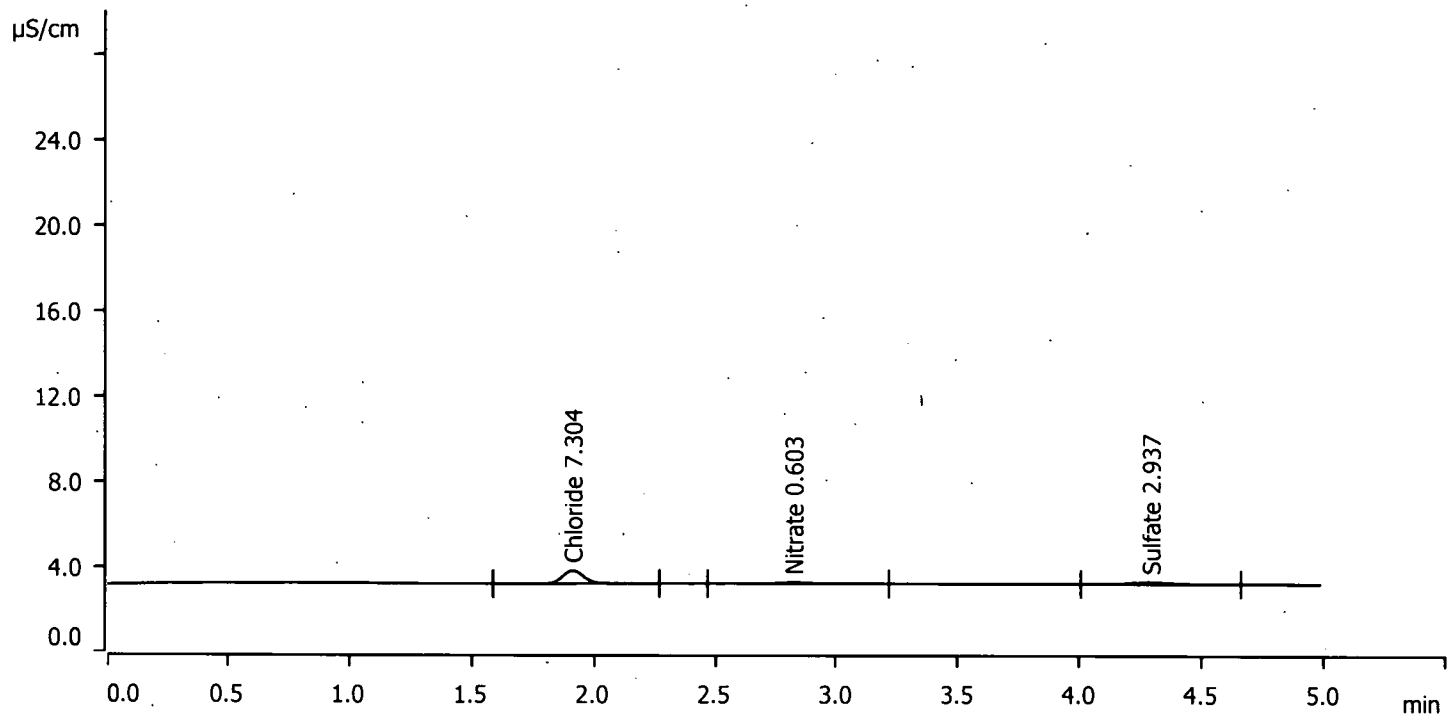
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.821	76.099	Chloride	BB
2	2.82	0.062	3.017	Nitrate	BB
3	4.29	0.069	10.993	Sulfate	BB

Sample data

Ident	R2408253-005
Sample type	Sample
Determination start	2024-09-16 00:01:47 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92421
Sample Position	58
Comment 1	300.0 C
Comment 2	

Anions



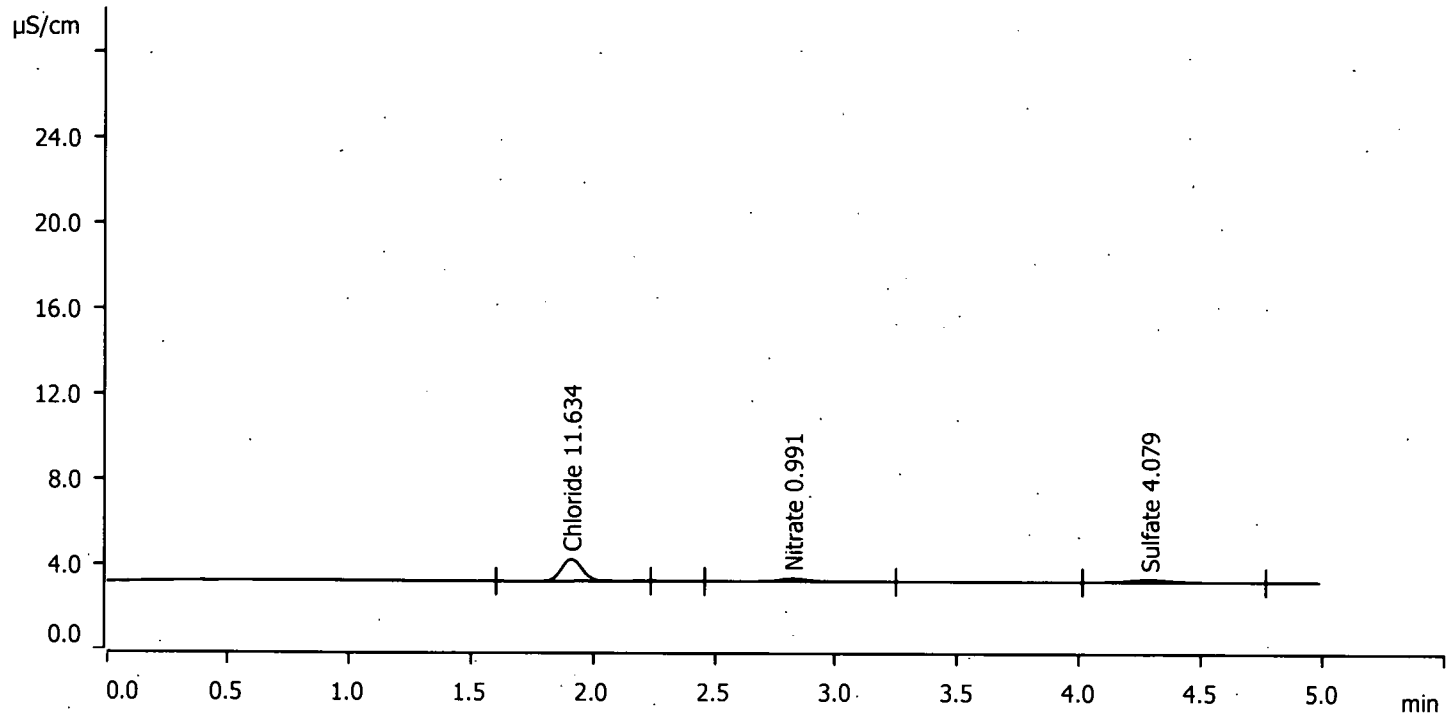
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.062	7.304	Chloride	BB
2	2.82	0.009	0.603	Nitrate	BB
3	4.29	0.018	2.937	Sulfate	BB

Sample data

Ident	R2408253-007
Sample type	Sample
Determination start	2024-09-16 00:08:02 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92422
Sample Position	59
Comment 1	300.0 C
Comment 2	

Anions



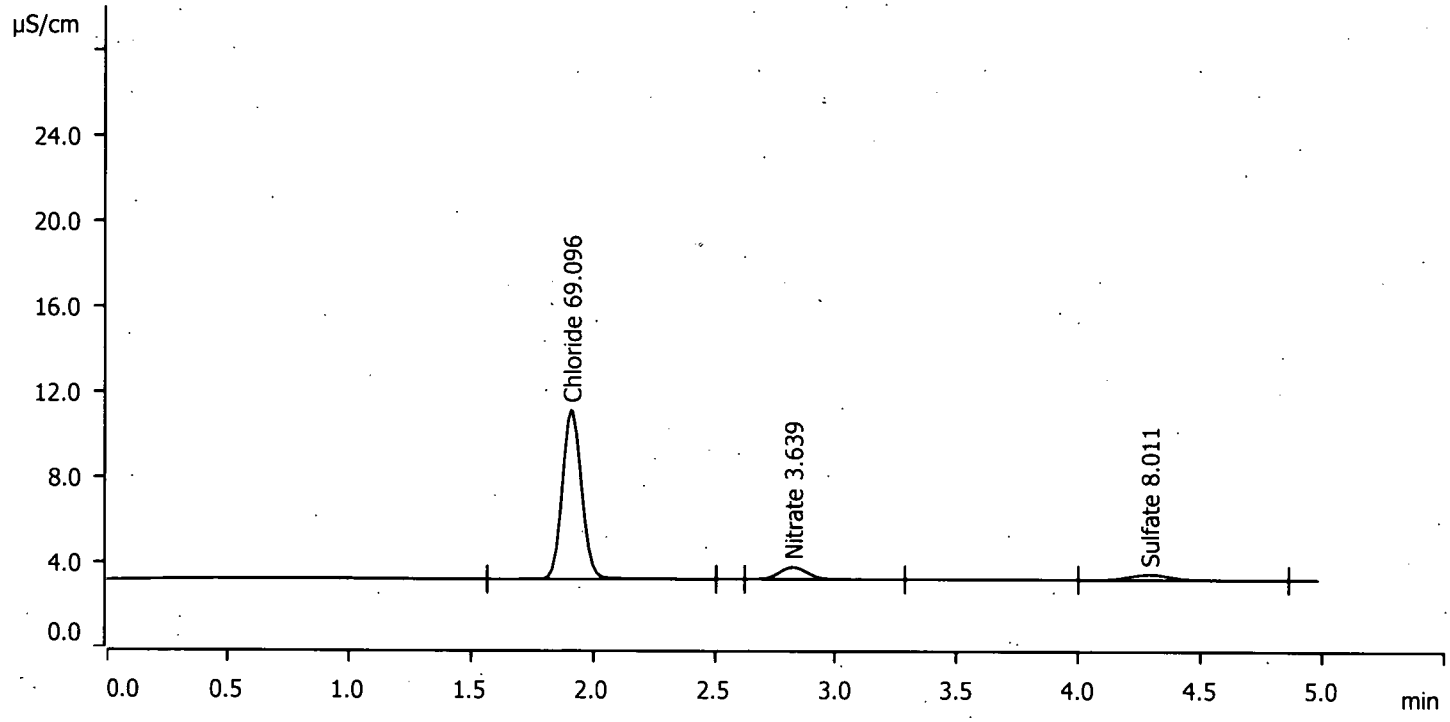
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.101	11.634	Chloride	BB
2	2.82	0.017	0.991	Nitrate	BB
3	4.29	0.025	4.079	Sulfate	BB

Sample data

Ident	R2408253-009
Sample type	Sample
Determination start	2024-09-16 00:14:16 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92423
Sample Position	60
Comment 1	300.0 C
Comment 2	

Anions



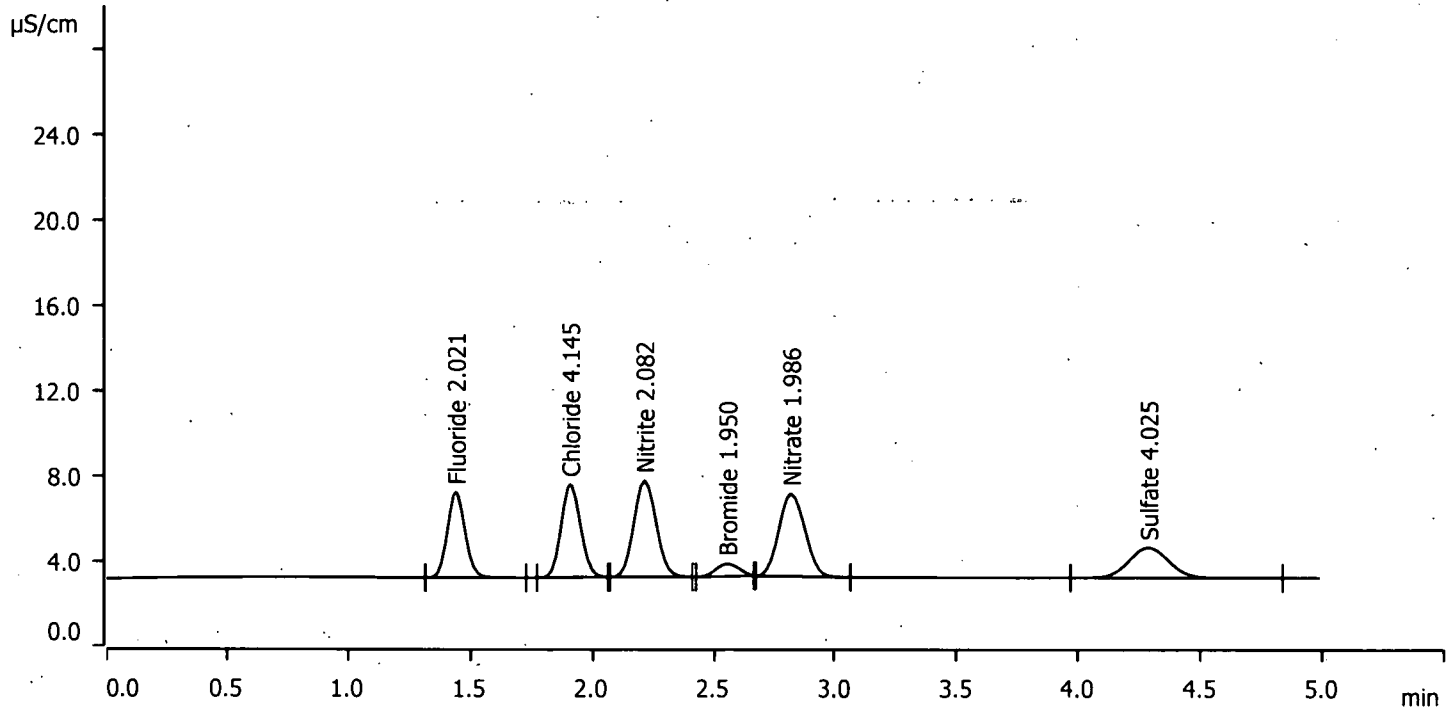
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.730	69.096	Chloride	BB
2	2.82	0.076	3.639	Nitrate	BB
3	4.29	0.050	8.011	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-16 00:20:31 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92424
Sample Position	61
Comment 1	300.0/9056A
Comment 2	

Anions



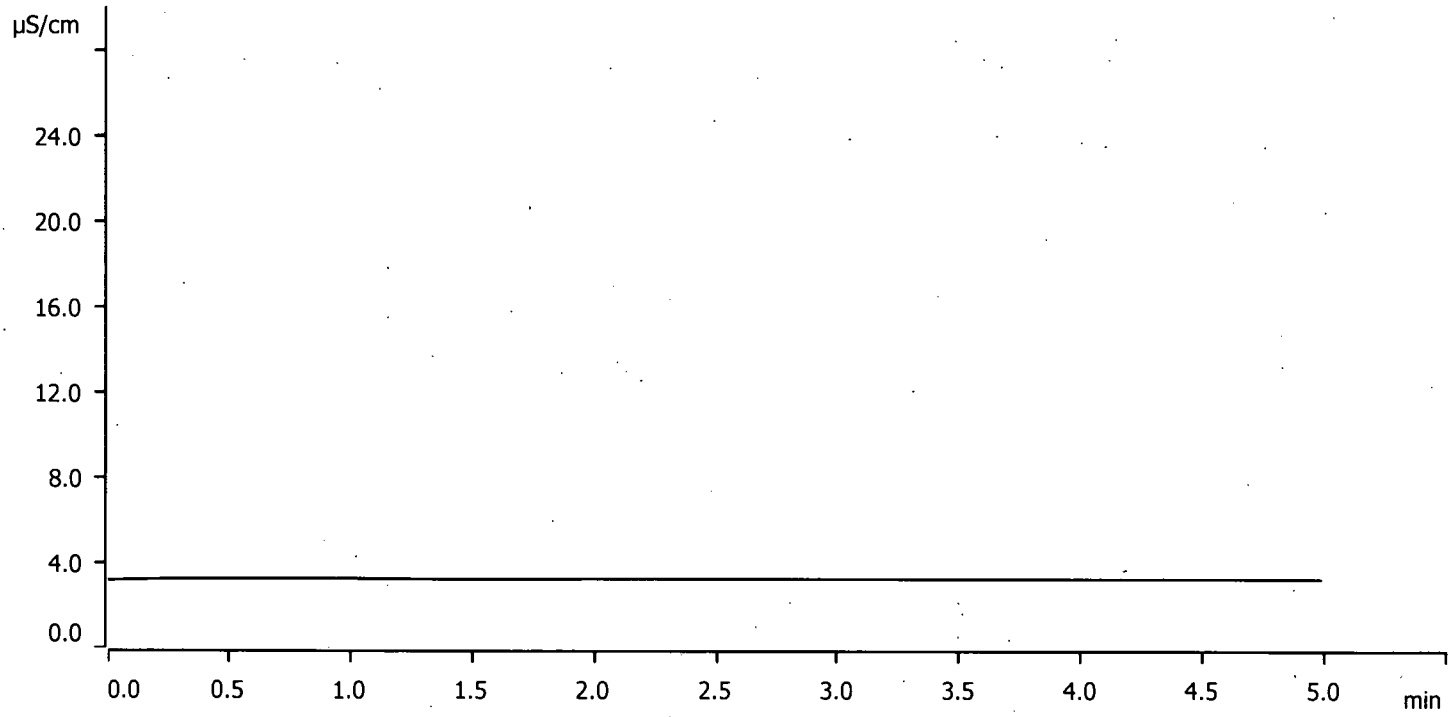
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.339	2.021	Fluoride	BB
2	1.91	0.402	4.145	Chloride	BB
3	2.22	0.482	2.082	Nitrite	BB
4	2.56	0.065	1.950	Bromide	BB
5	2.82	0.483	1.986	Nitrate	BB
6	4.29	0.269	4.025	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-16 00:26:47 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92425
Sample Position	62
Comment 1	300.0/9056A
Comment 2	

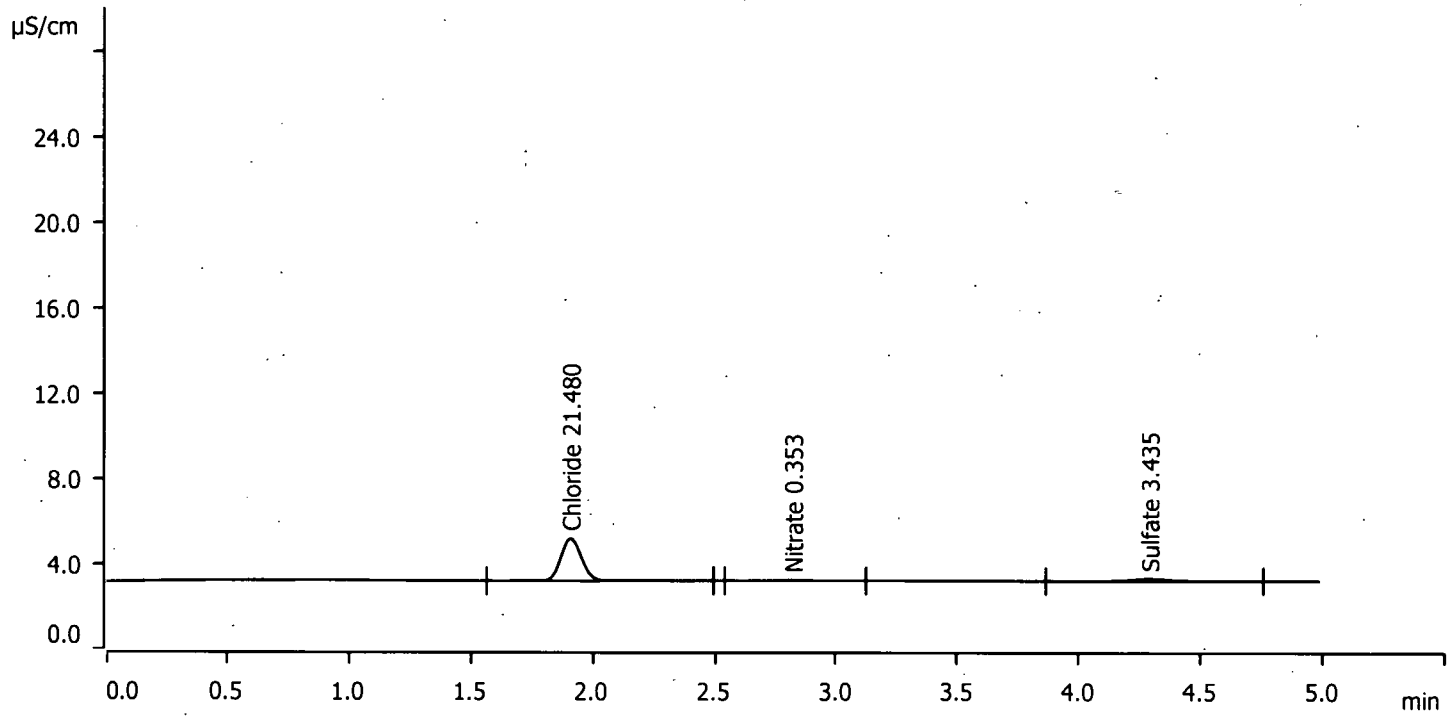
Anions



Sample data

Ident	R2408253-011
Sample type	Sample
Determination start	2024-09-16 00:33:03 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92426
Sample Position	63
Comment 1	300.0 C
Comment 2	

Anions



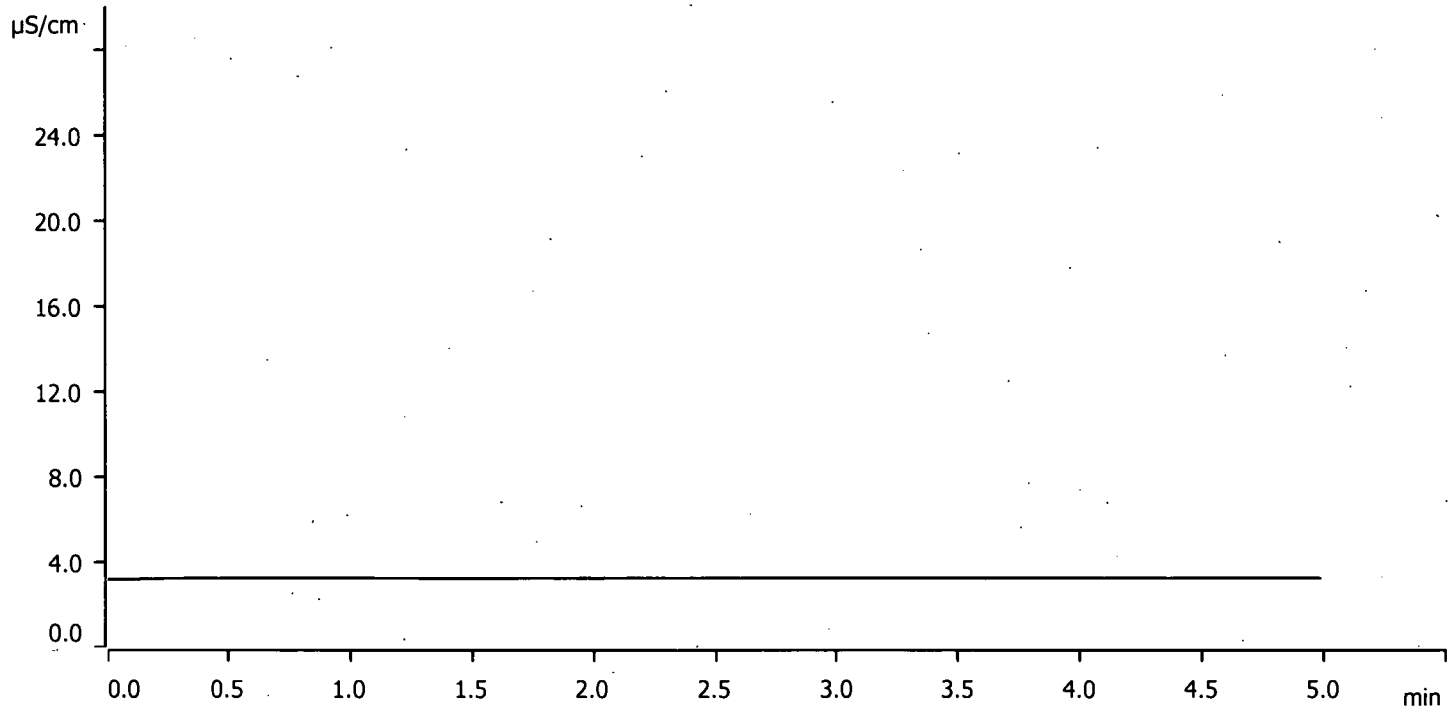
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.194	21.480	Chloride	BB
2	2.82	0.004	0.353	Nitrate	BB
3	4.29	0.021	3.435	Sulfate	BB

Sample data

Ident	R2408253-013
Sample type	Sample
Determination start	2024-09-16 00:39:18 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92427
Sample Position	64
Comment 1	300.0 C
Comment 2	

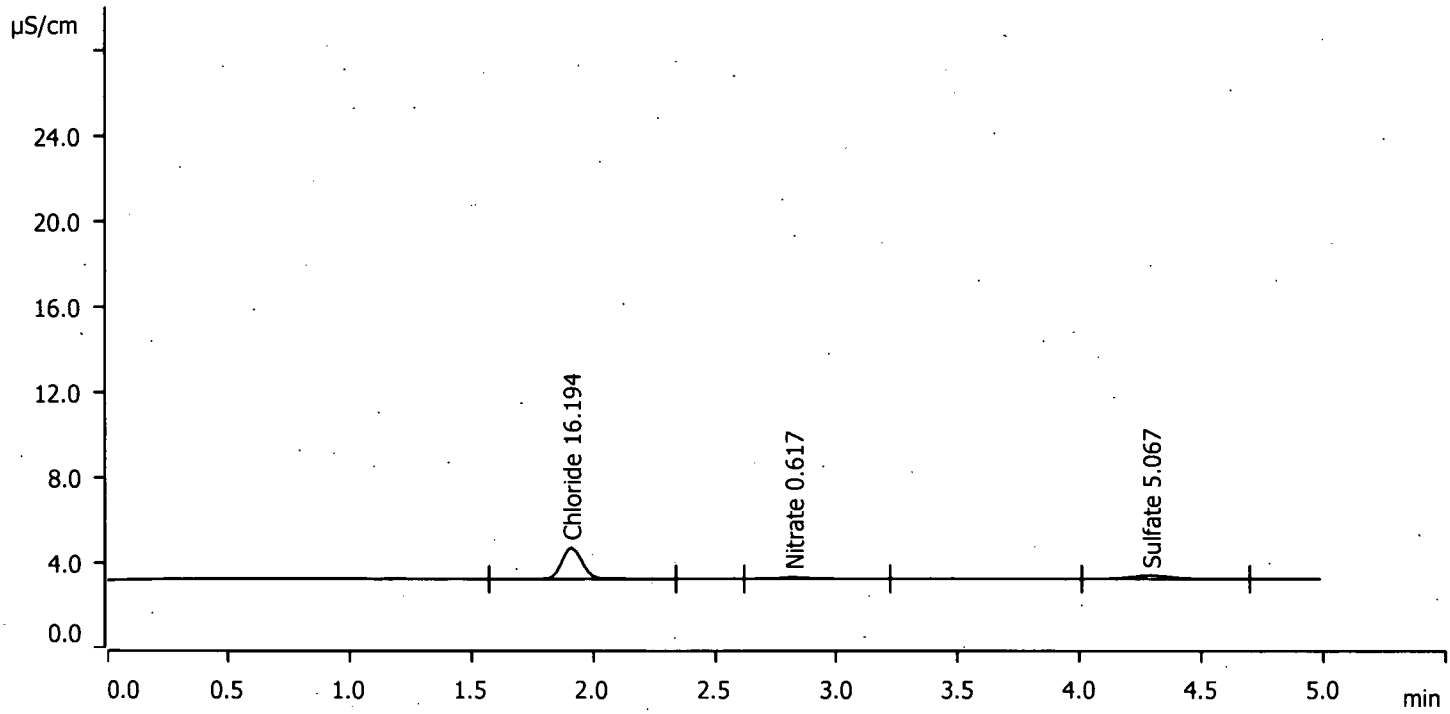
Anions



Sample data

Ident	R2408254-001
Sample type	Sample
Determination start	2024-09-16 00:45:32 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92428
Sample Position	65
Comment 1	300.0 C
Comment 2	

Anions



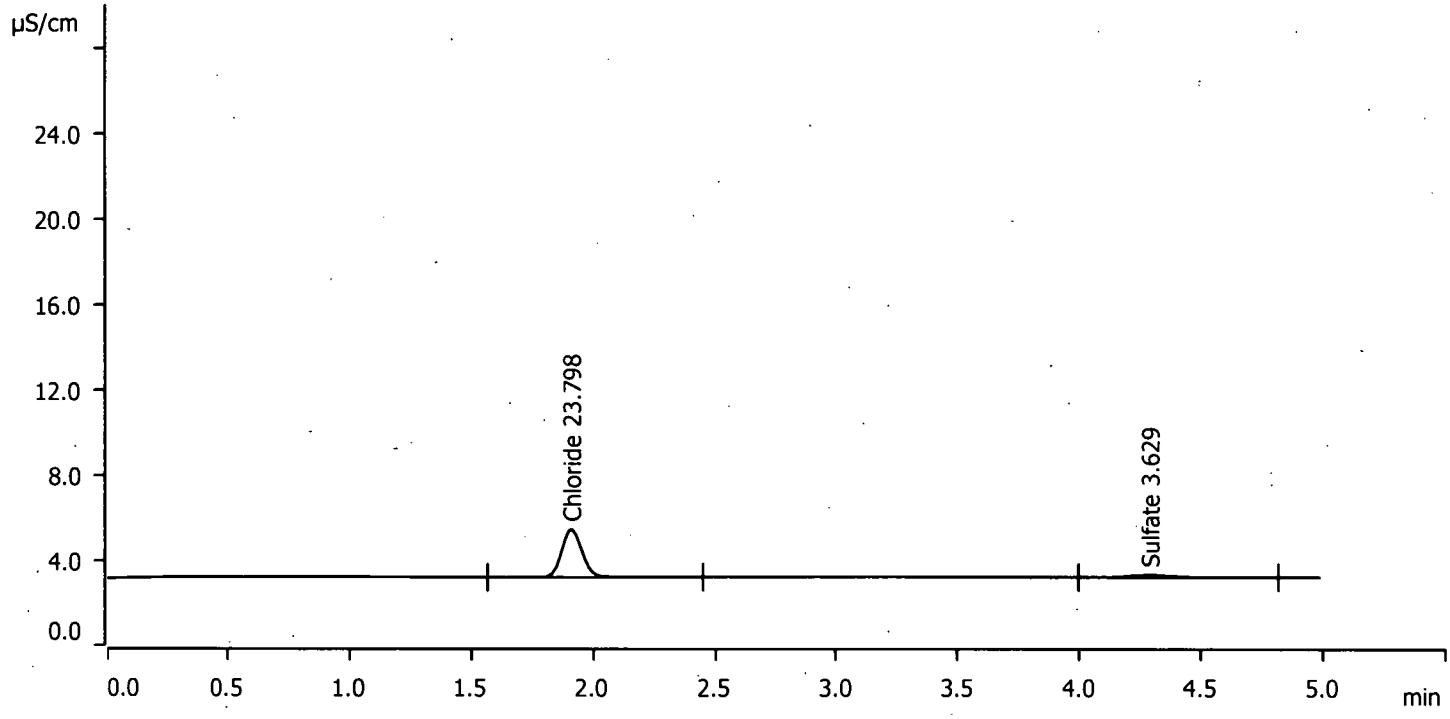
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.143	16.194	Chloride	BB
2	2.82	0.009	0.617	Nitrate	BB
3	4.29	0.031	5.067	Sulfate	BB

Sample data

Ident	R2408254-003
Sample type	Sample
Determination start	2024-09-16 00:51:47 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92429
Sample Position	66
Comment 1	300.0 C
Comment 2	

Anions



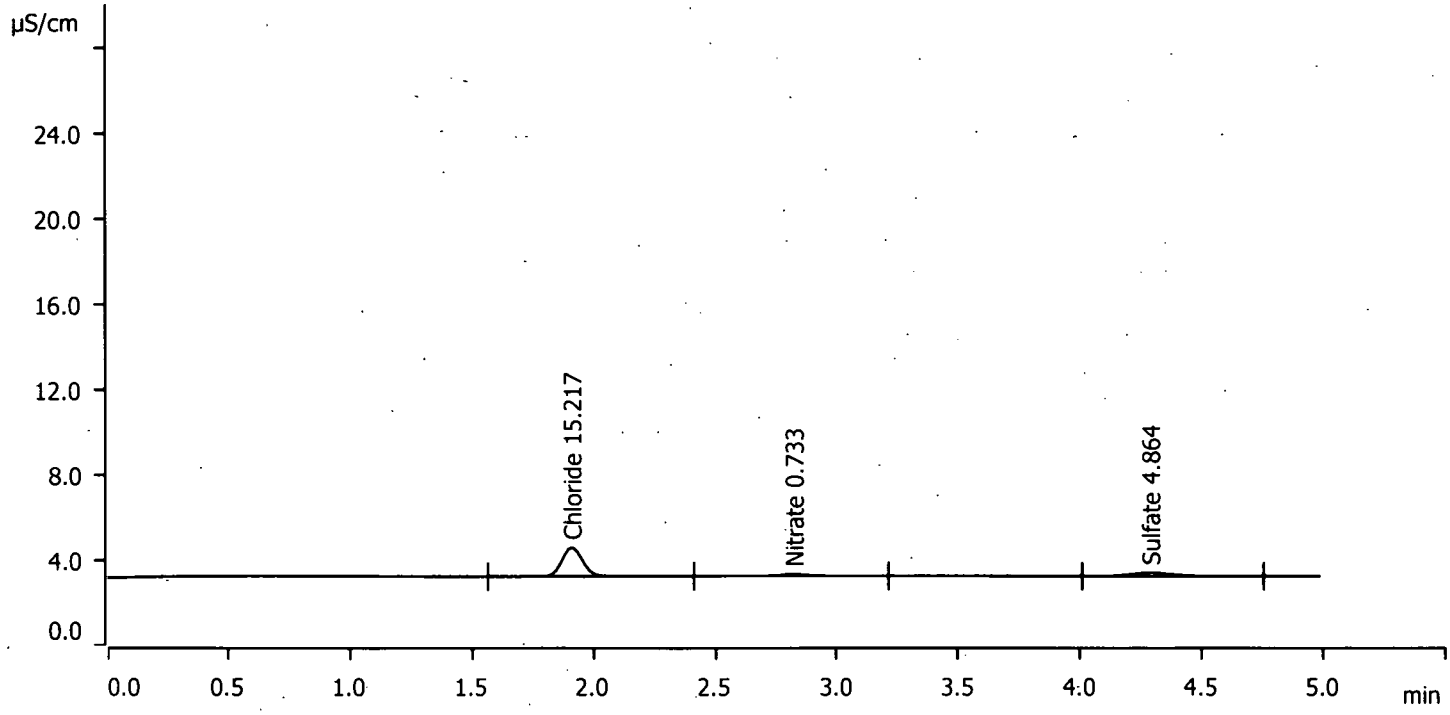
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.217	23.798	Chloride	BB
2	4.29	0.022	3.629	Sulfate	BB

Sample data

Ident	R2408254-005
Sample type	Sample
Determination start	2024-09-16 00:58:01 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92430
Sample Position	67
Comment 1	300.0 C
Comment 2	

Anions



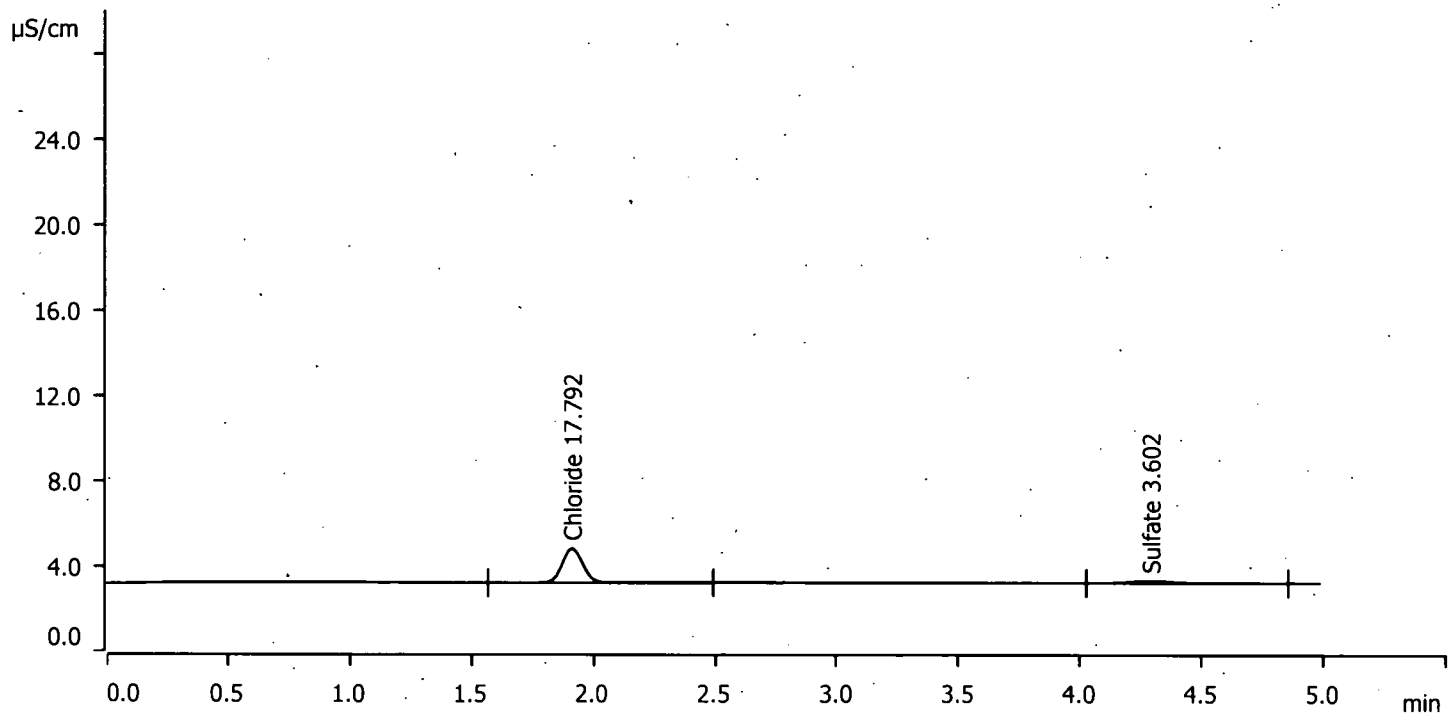
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.134	15.217	Chloride	BB
2	2.82	0.012	0.733	Nitrate	BB
3	4.29	0.030	4.864	Sulfate	BB

Sample data

Ident	R2408254-007
Sample type	Sample
Determination start	2024-09-16 01:04:16 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92431
Sample Position	68
Comment 1	300.0 C
Comment 2	

Anions



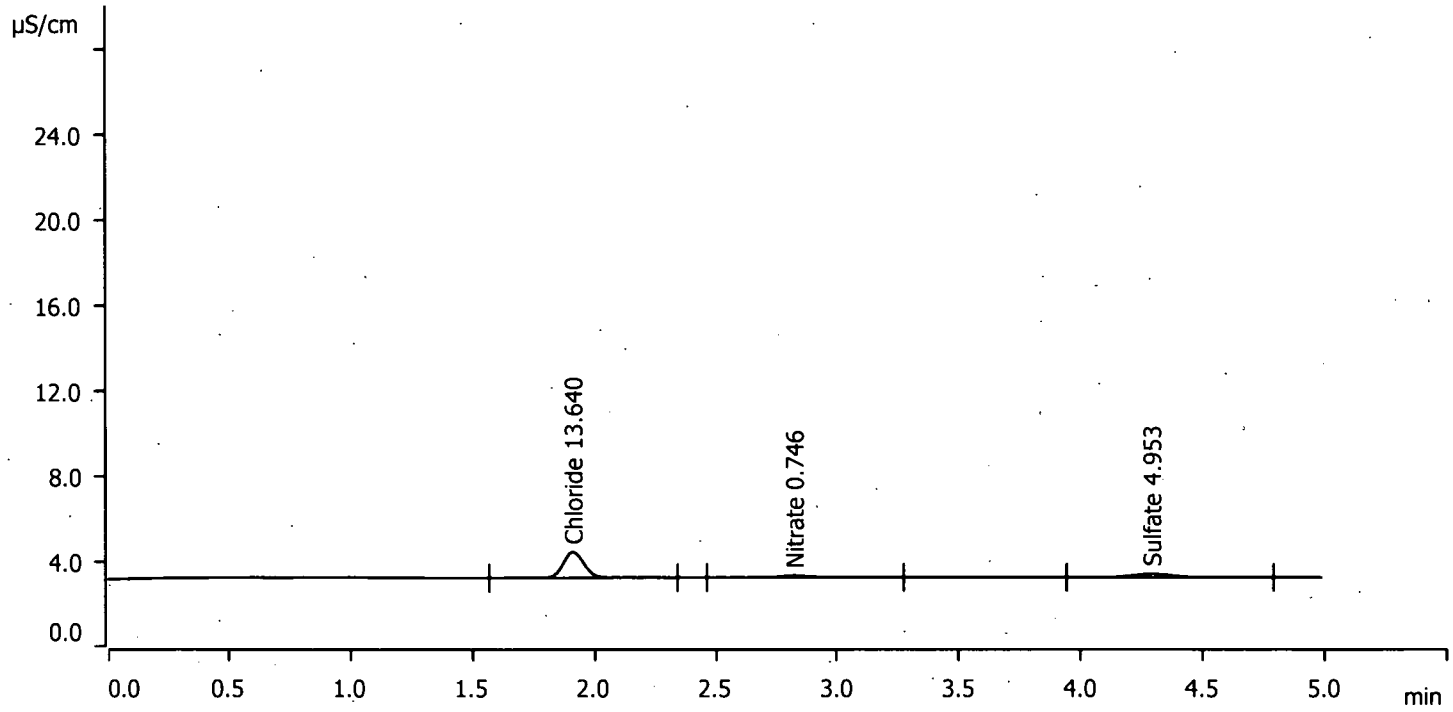
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.159	17.792	Chloride	BB
2	4.29	0.022	3.602	Sulfate	BB

Sample data

Ident	R2408254-009
Sample type	Sample
Determination start	2024-09-16 01:10:30 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92432
Sample Position	69
Comment 1	300.0 C
Comment 2	

Anions



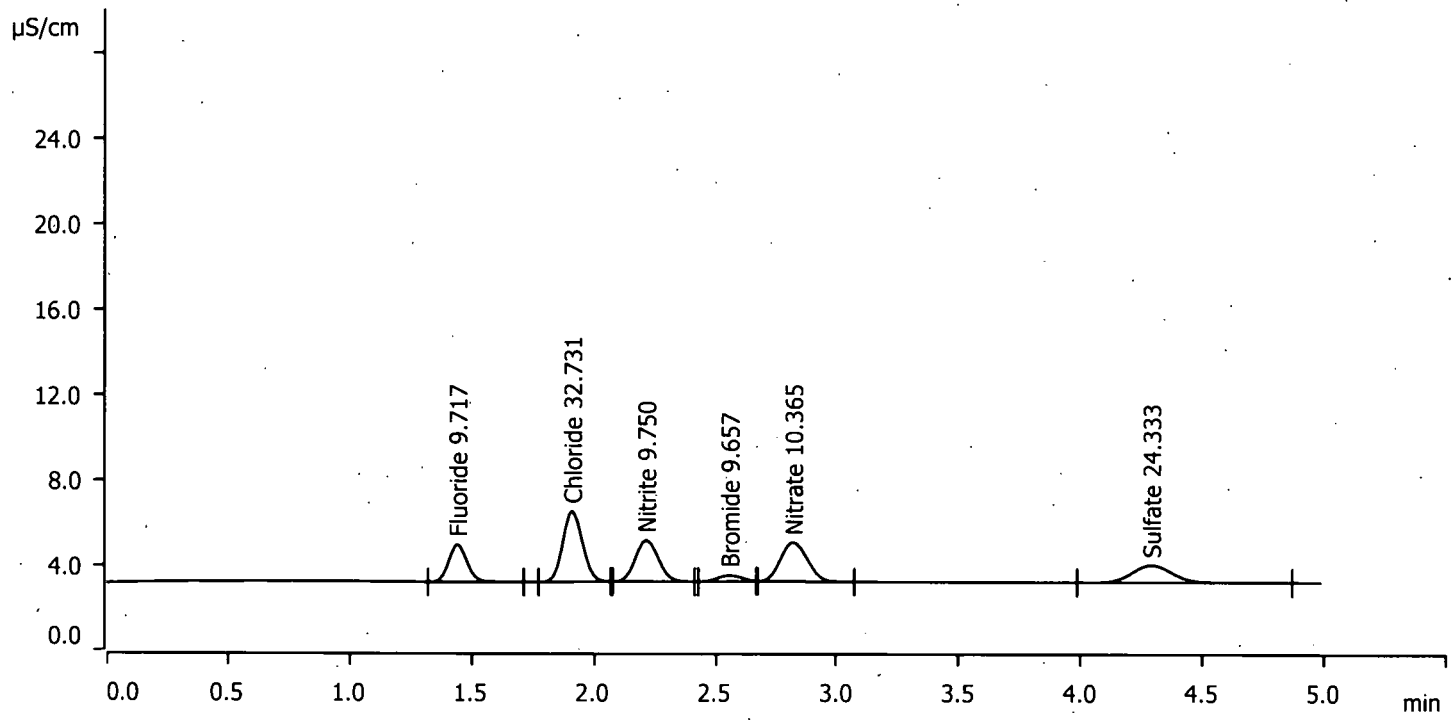
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.119	13.640	Chloride	BB
2	2.82	0.012	0.746	Nitrate	BB
3	4.29	0.031	4.953	Sulfate	BB

Sample data

Ident	R2408254-009 MS!
Sample type	Sample
Determination start	2024-09-16 01:16:45 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92433
Sample Position	70
Comment 1	300.0 C
Comment 2	

Anions



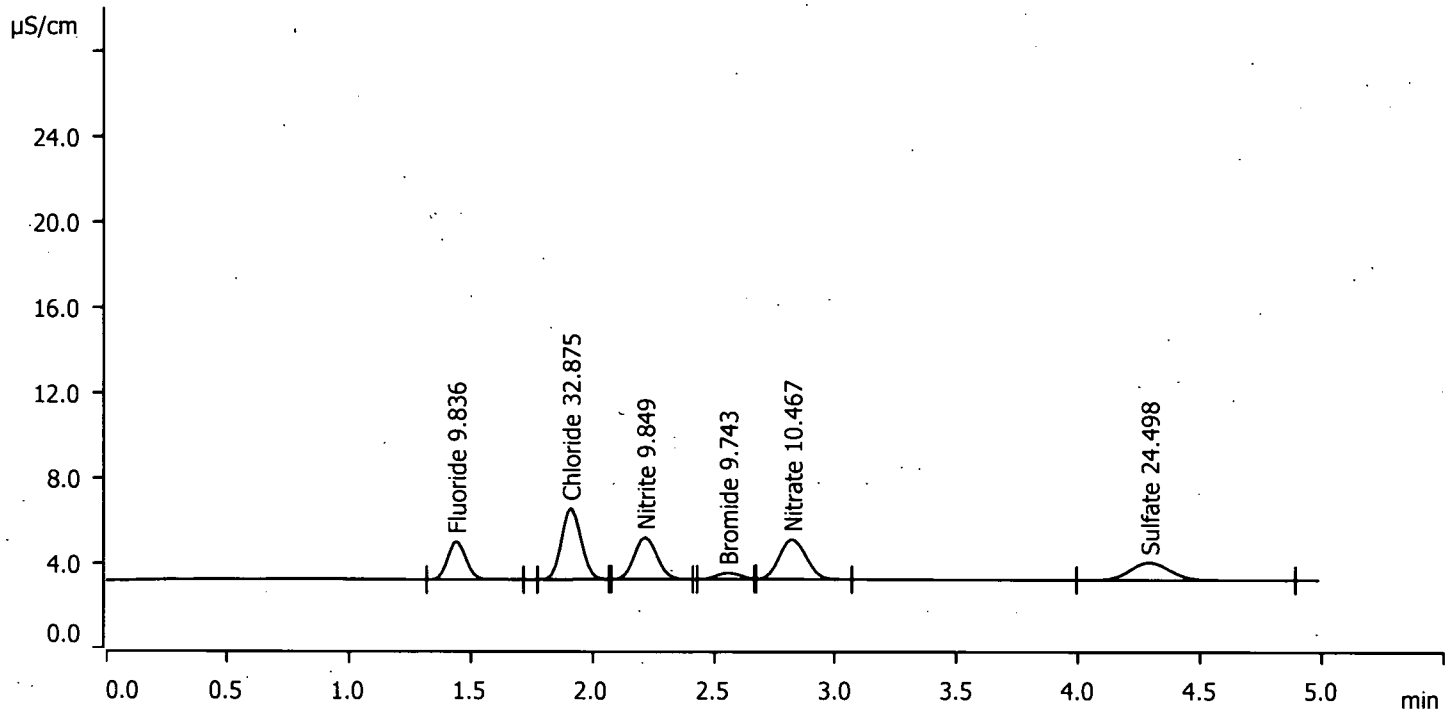
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.152	9.717	Fluoride	BB
2	1.91	0.308	32.731	Chloride	BB
3	2.22	0.210	9.750	Nitrite	BB
4	2.56	0.031	9.657	Bromide	BB
5	2.82	0.234	10.365	Nitrate	BB
6	4.29	0.158	24.333	Sulfate	BB

Sample data

Ident	R2408254-009 MSD!
Sample type	Sample
Determination start	2024-09-16 01:23:01 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92434
Sample Position	71
Comment 1	300.0 C
Comment 2	

Anions



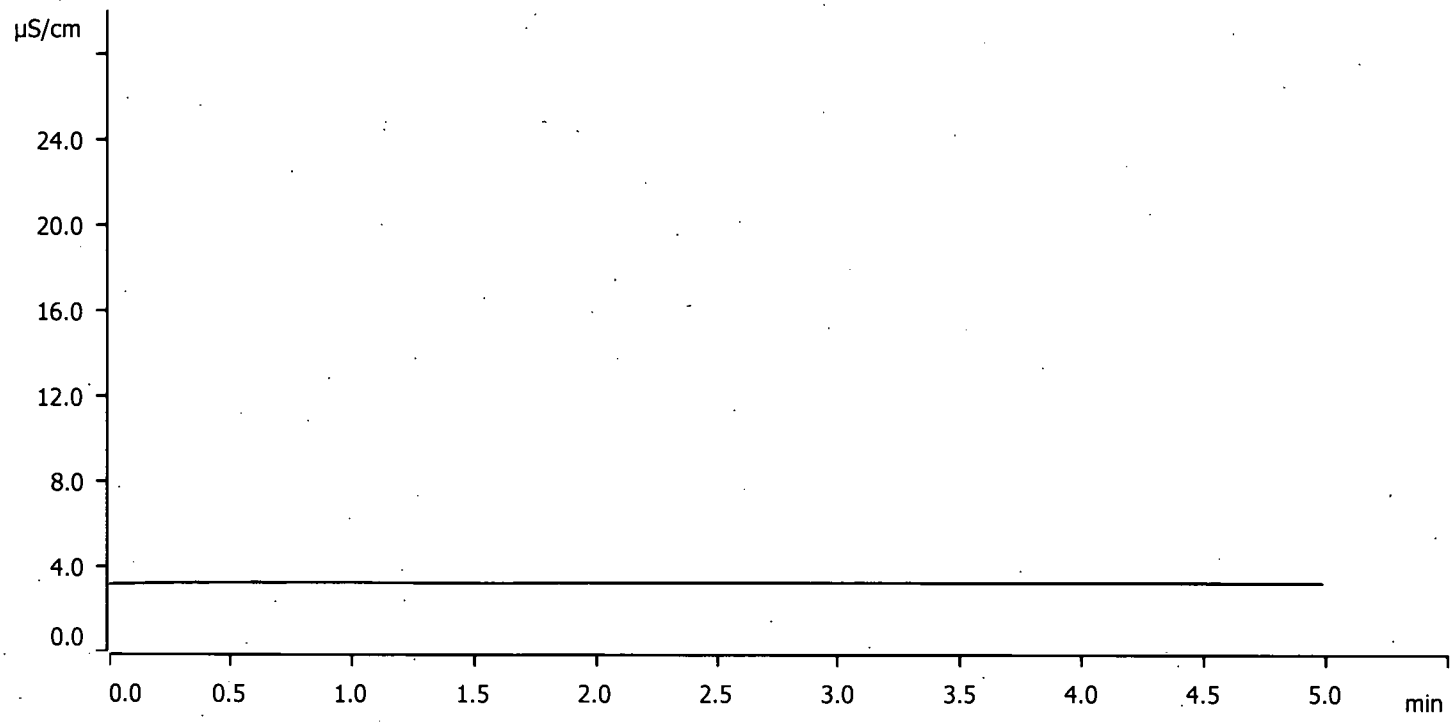
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.154	9.836	Fluoride	BB
2	1.91	0.310	32.875	Chloride	BB
3	2.22	0.212	9.849	Nitrite	BB
4	2.56	0.031	9.743	Bromide	BB
5	2.82	0.236	10.467	Nitrate	BB
6	4.29	0.159	24.498	Sulfate	BB

Sample data

Ident	R2408254-011
Sample type	Sample
Determination start	2024-09-16 01:29:16 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92435
Sample Position	72
Comment 1	300.0 C
Comment 2	

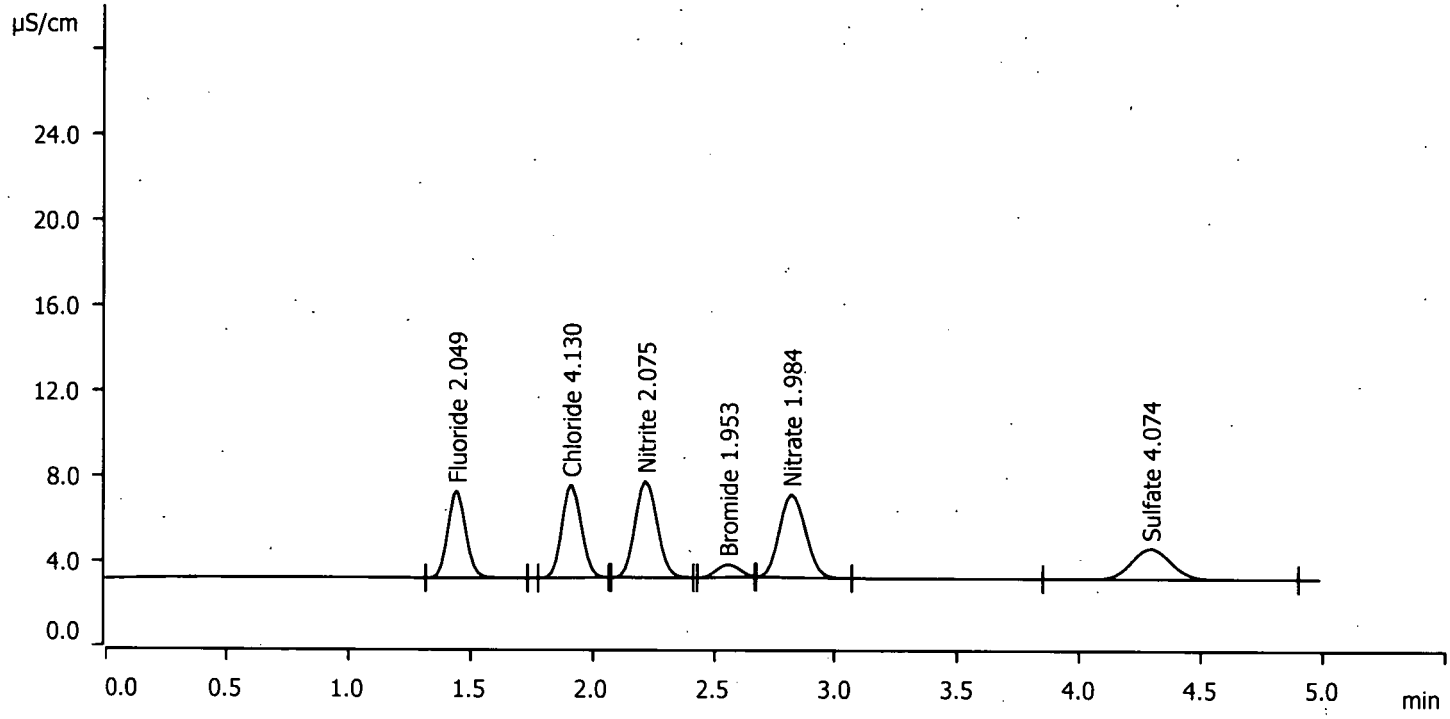
Anions



Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-16 01:35:30 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92436
Sample Position	73
Comment 1	300.0/9056A
Comment 2	

Anions



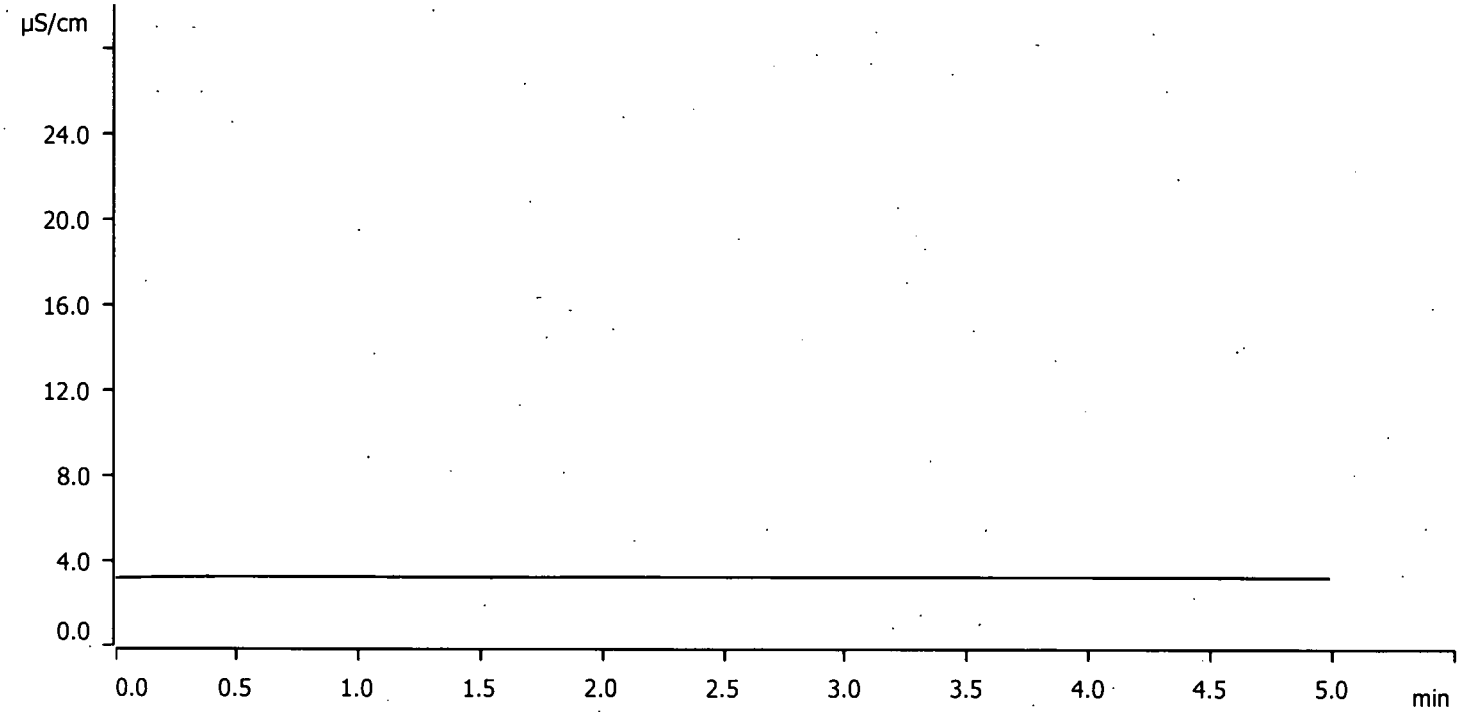
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.344	2.049	Fluoride	BB
2	1.91	0.401	4.130	Chloride	BB
3	2.22	0.480	2.075	Nitrite	BB
4	2.56	0.065	1.953	Bromide	BB
5	2.82	0.482	1.984	Nitrate	BB
6	4.29	0.273	4.074	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-16 01:41:46 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92437
Sample Position	74
Comment 1	300.0/9056A
Comment 2	

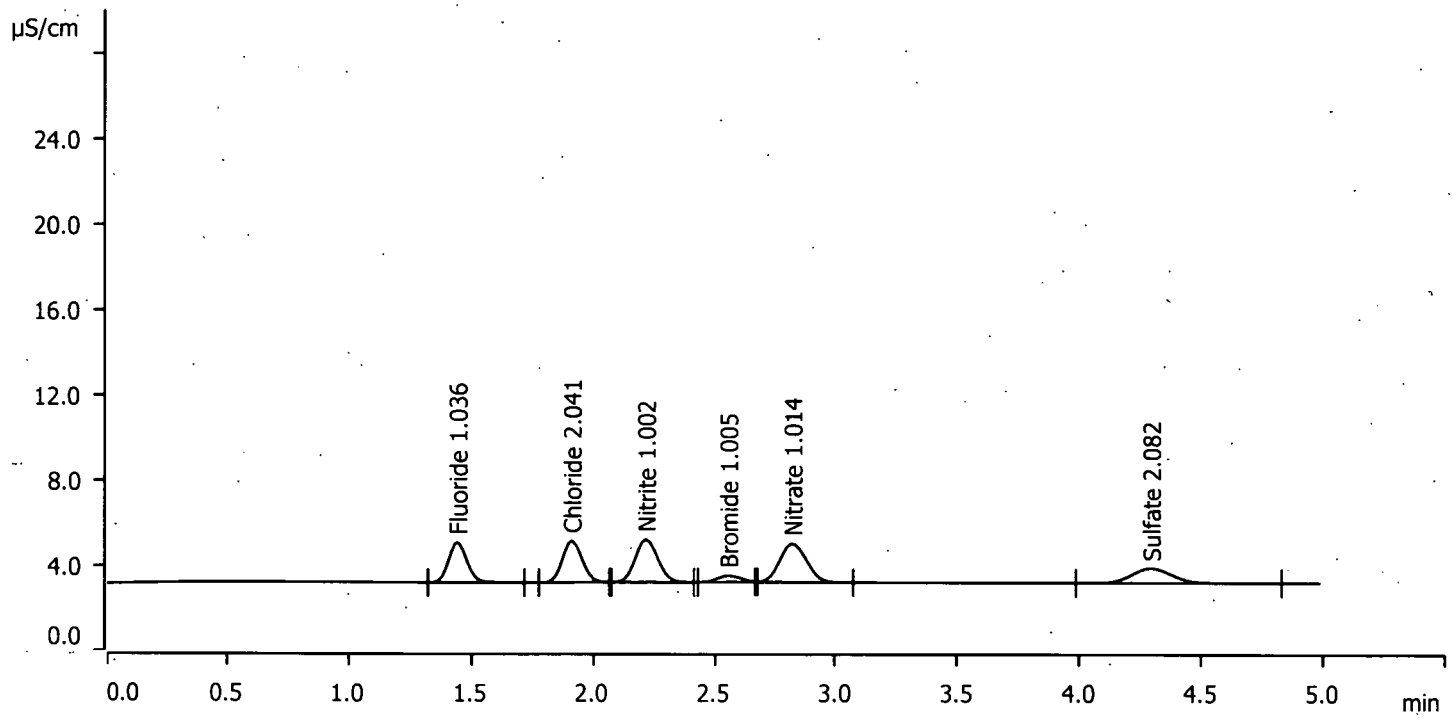
Anions



Sample data

Ident	LCS
Sample type	Check standard 2
Determination start	2024-09-16 01:48:01 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92438
Sample Position	75
Comment 1	300.0/9056A
Comment 2	

Anions



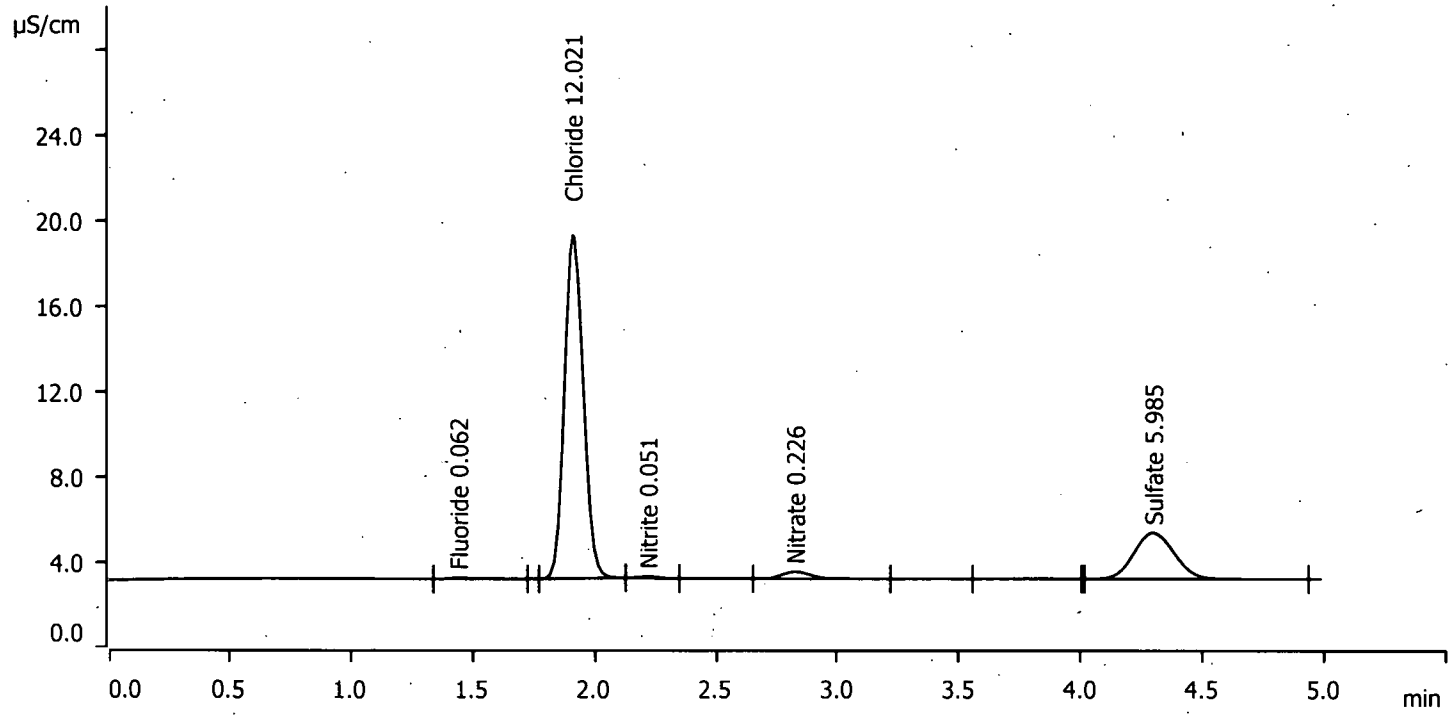
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.163	1.036	Fluoride	BB
2	1.92	0.184	2.041	Chloride	BB
3	2.22	0.217	1.002	Nitrite	BB
4	2.56	0.032	1.005	Bromide	BB
5	2.82	0.228	1.014	Nitrate	BB
6	4.29	0.134	2.082	Sulfate	BB

Sample data

Ident	R2408259-001
Sample type	Sample
Determination start	2024-09-16 01:54:17 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92439
Sample Position	76
Comment 1	300.0 FS
Comment 2	

Anions



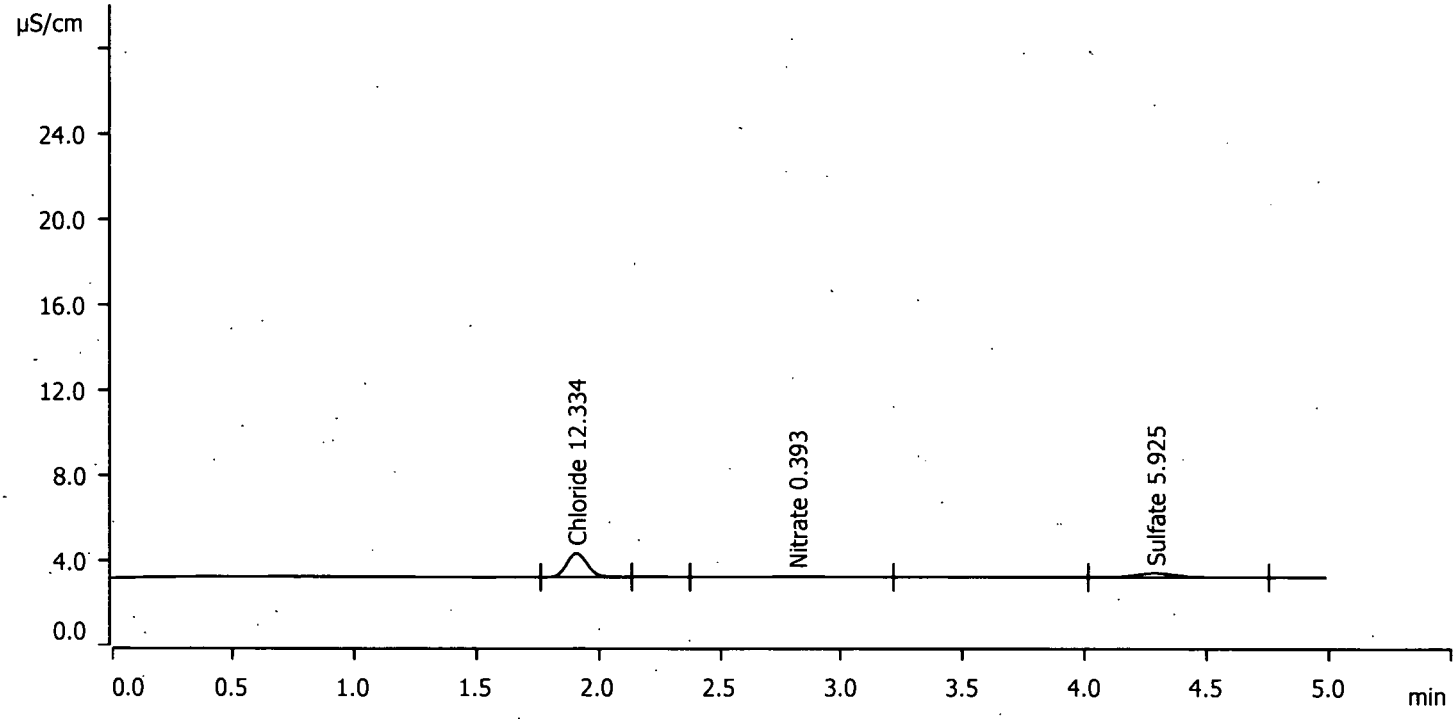
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.006	0.062	Fluoride	BB
2	1.91	1.461	12.021	Chloride	BB
3	2.22	0.007	0.051	Nitrite	BB
4	2.83	0.045	0.226	Nitrate	BB
6	4.30	0.417	5.985	Sulfate	BB

Sample data

Ident	R2408259-001
Sample type	Sample
Determination start	2024-09-16 02:00:32 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92440
Sample Position	77
Comment 1	300.0 C
Comment 2	

Anions



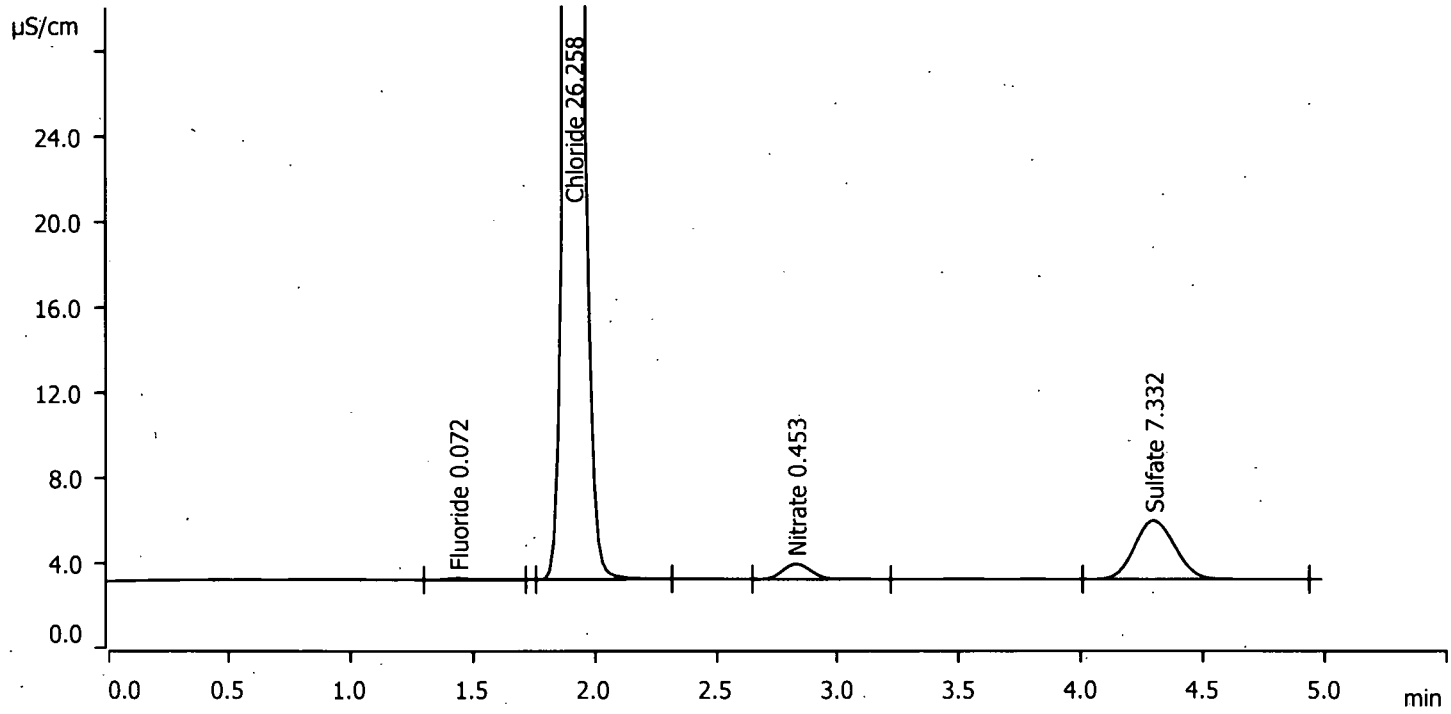
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.107	12.334	Chloride	BB
2	2.82	0.004	0.393	Nitrate	BB
3	4.29	0.037	5.925	Sulfate	BB

Sample data

Ident	R2408259-003
Sample type	Sample
Determination start	2024-09-16 02:06:47 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92441
Sample Position	78
Comment 1	300.0 FS
Comment 2	

Anions



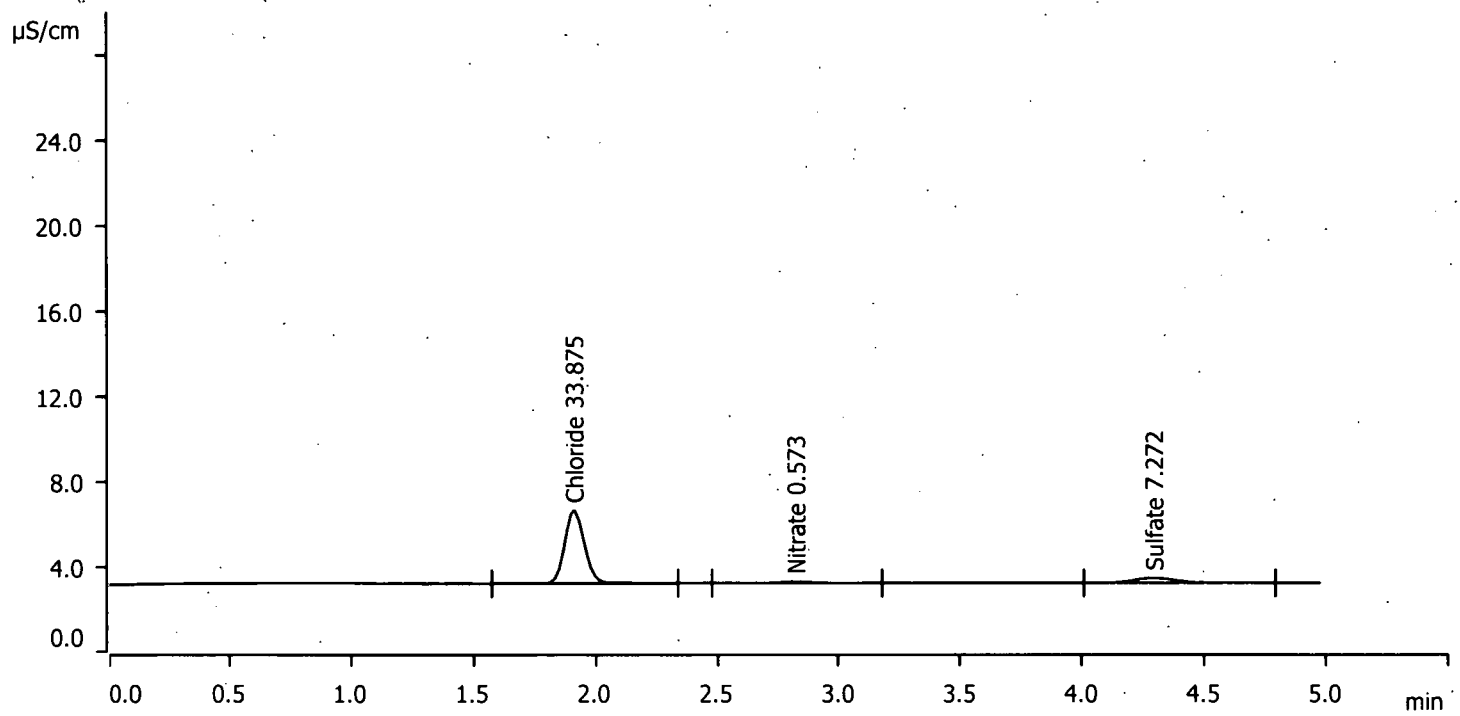
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.008	0.072	Fluoride	BBI
2	1.92	4.344	26.258	Chloride	BB
3	2.83	0.096	0.453	Nitrate	BB
4	4.30	0.524	7.332	Sulfate	BB

Sample data

Ident	R2408259-003
Sample type	Sample
Determination start	2024-09-16 02:13:02 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92442
Sample Position	79
Comment 1	300.0 C
Comment 2	

Anions



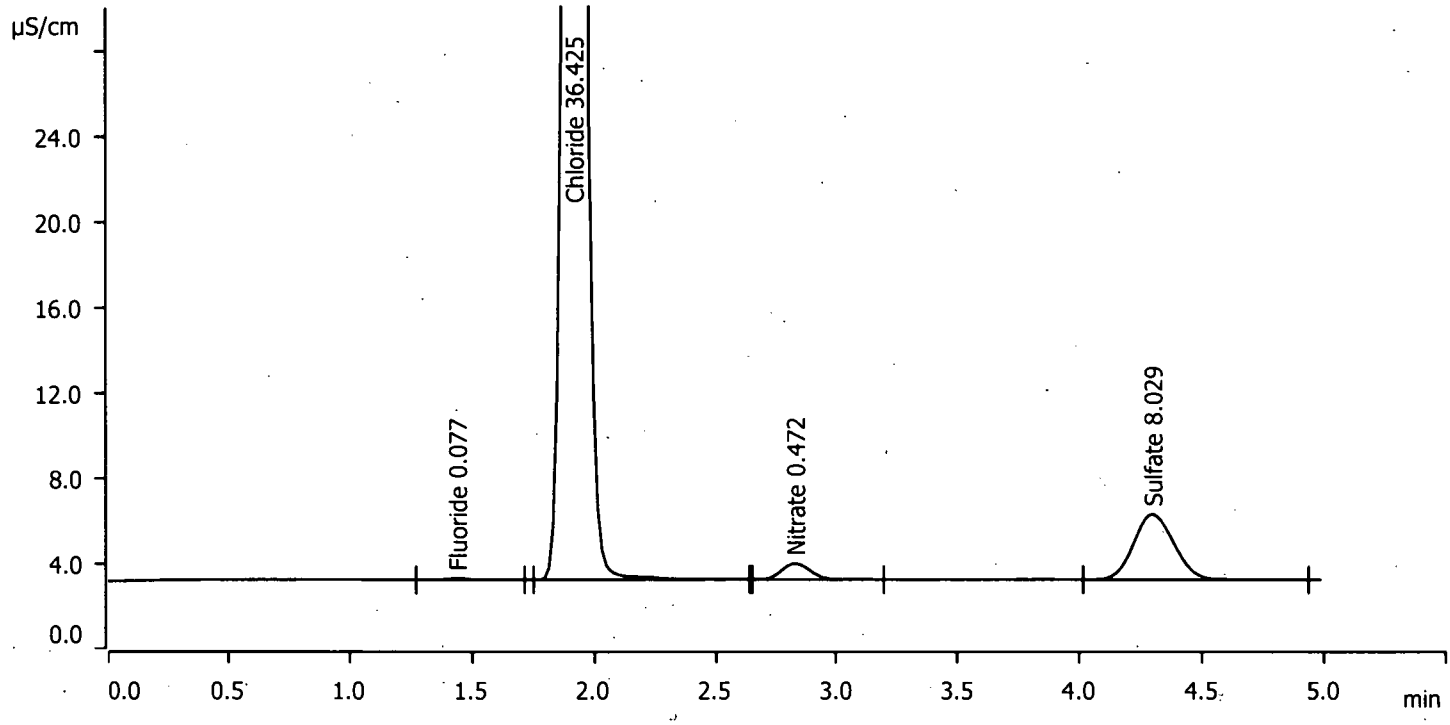
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.320	33.875	Chloride	BB
2	2.82	0.008	0.573	Nitrate	BB
3	4.29	0.045	7.272	Sulfate	BB

Sample data

Ident	R2408259-005
Sample type	Sample
Determination start	2024-09-16 02:19:17 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92443
Sample Position	80
Comment 1	300.0 FS
Comment 2	

Anions



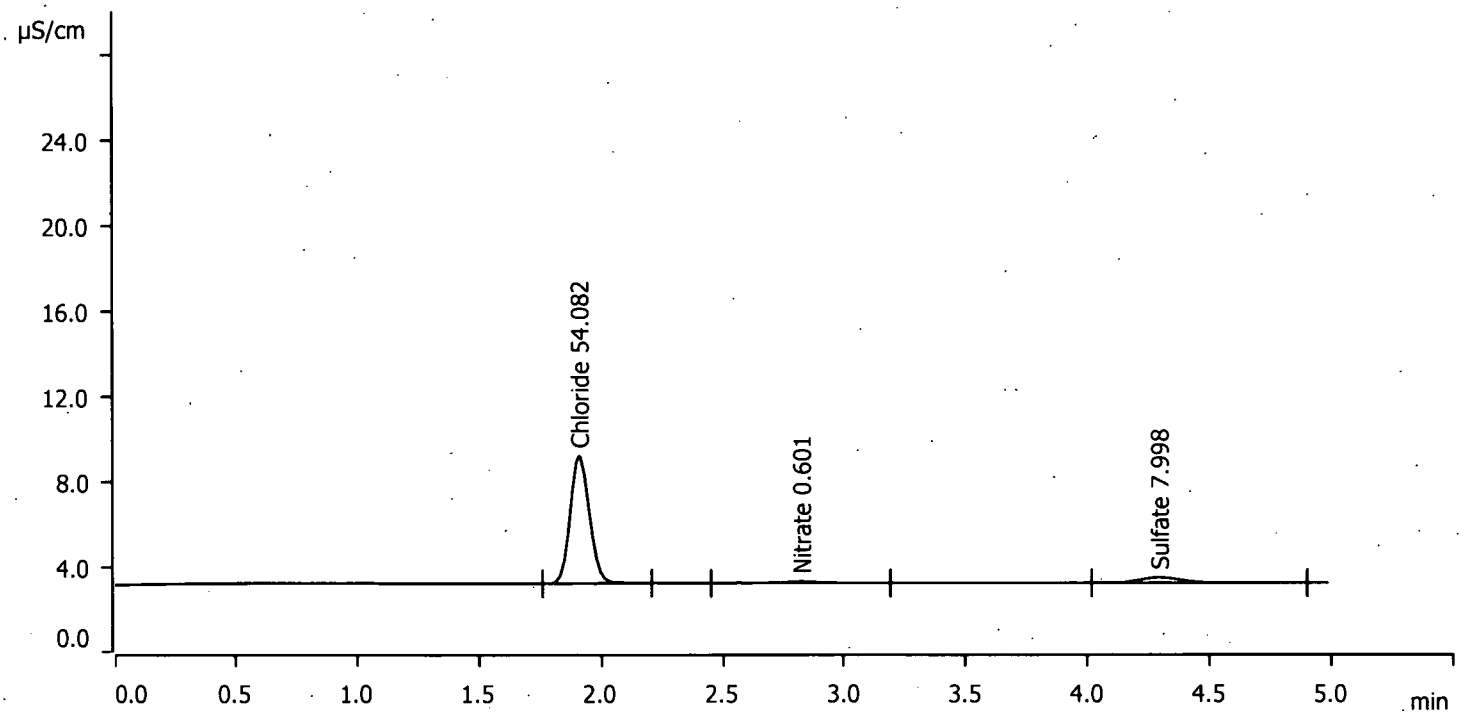
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.009	0.077	Fluoride	BB
2	1.92	7.166	36.425	Chloride	BB
3	2.83	0.100	0.472	Nitrate	BB
4	4.30	0.582	8.029	Sulfate	BB

Sample data

Ident	R2408259-005
Sample type	Sample
Determination start	2024-09-16 02:25:32 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92444
Sample Position	81
Comment 1	300.0 C
Comment 2	

Anions



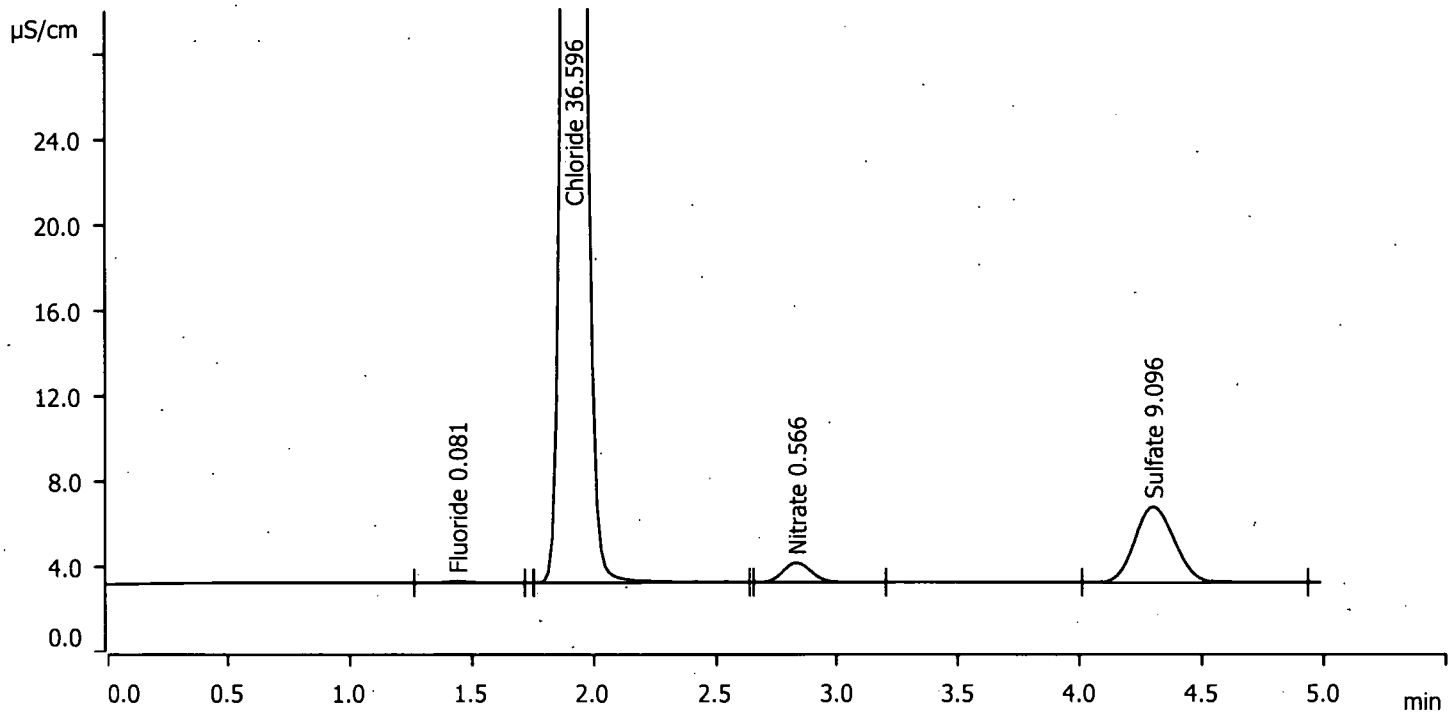
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.546	54.082	Chloride	BB
2	2.82	0.009	0.601	Nitrate	BB
3	4.29	0.050	7.998	Sulfate	BB

Sample data

Ident	R2408259-007
Sample type	Sample
Determination start	2024-09-16 02:31:47 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92445
Sample Position	82
Comment 1	300.0 FS
Comment 2	

Anions



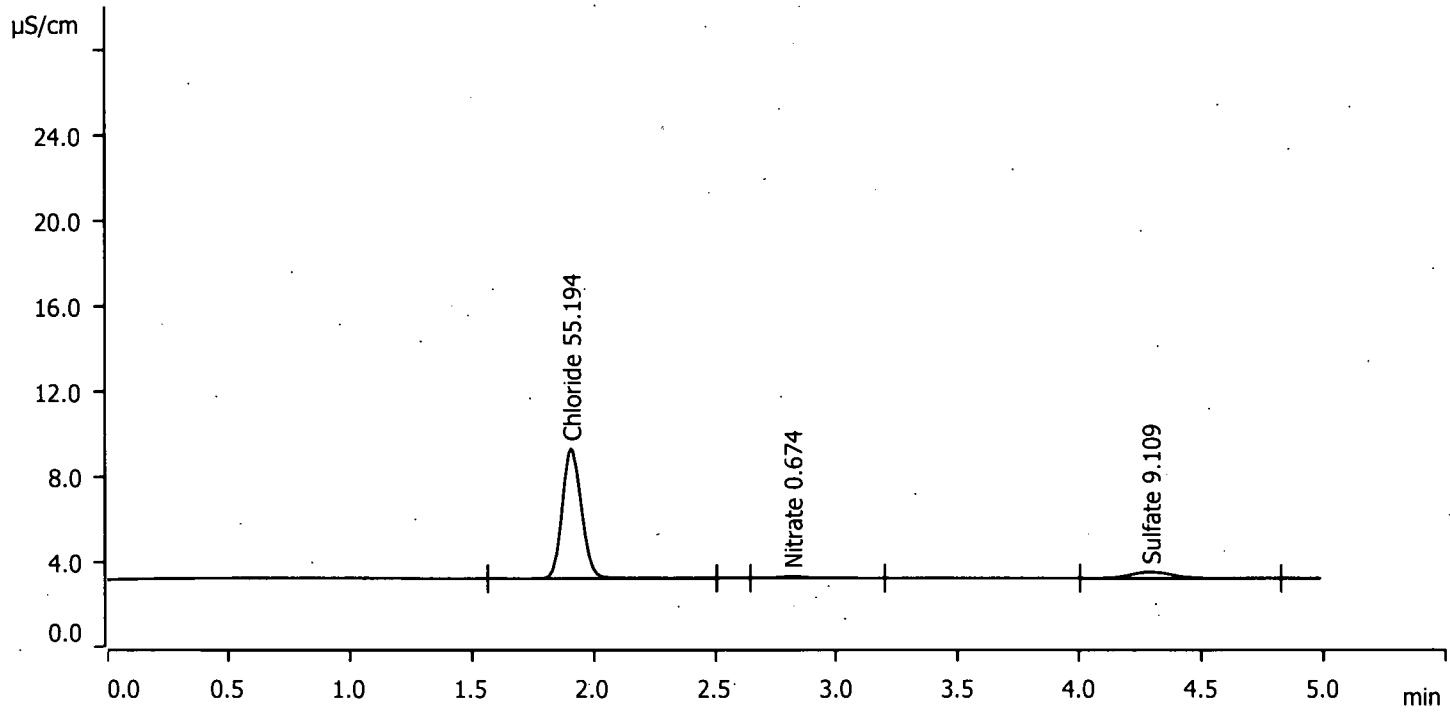
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.009	0.081	Fluoride	BB
2	1.92	7.219	36.596	Chloride	BB
3	2.83	0.122	0.566	Nitrate	BB
4	4.30	0.672	9.096	Sulfate	BB

Sample data

Ident	R2408259-007
Sample type	Sample
Determination start	2024-09-16 02:38:03 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92446
Sample Position	83
Comment 1	300.0 C
Comment 2	

Anions



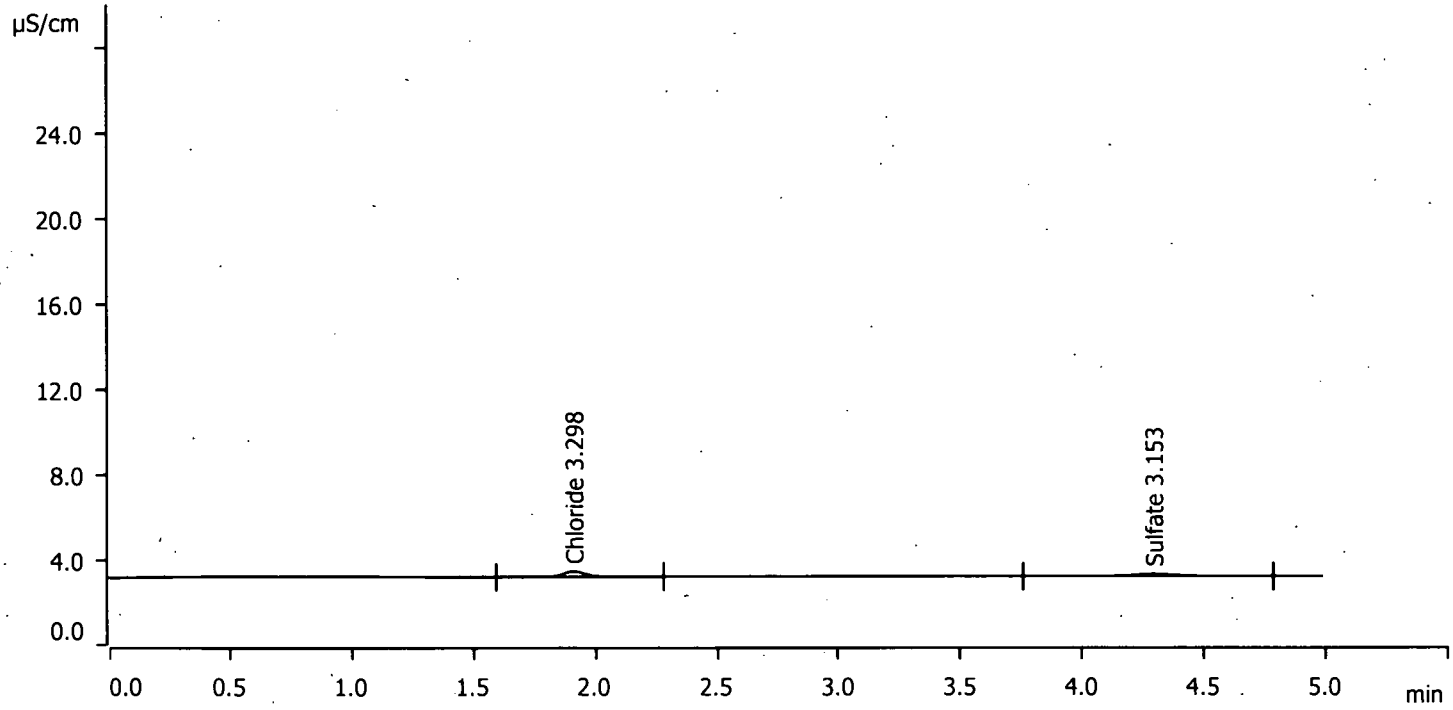
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.559	55.194	Chloride	BB
2	2.82	0.010	0.674	Nitrate	BB
3	4.29	0.057	9.109	Sulfate	BB

Sample data

Ident	R2408337-001
Sample type	Sample
Determination start	2024-09-16 02:44:17 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92447
Sample Position	84
Comment 1	300.0 CS
Comment 2	

Anions



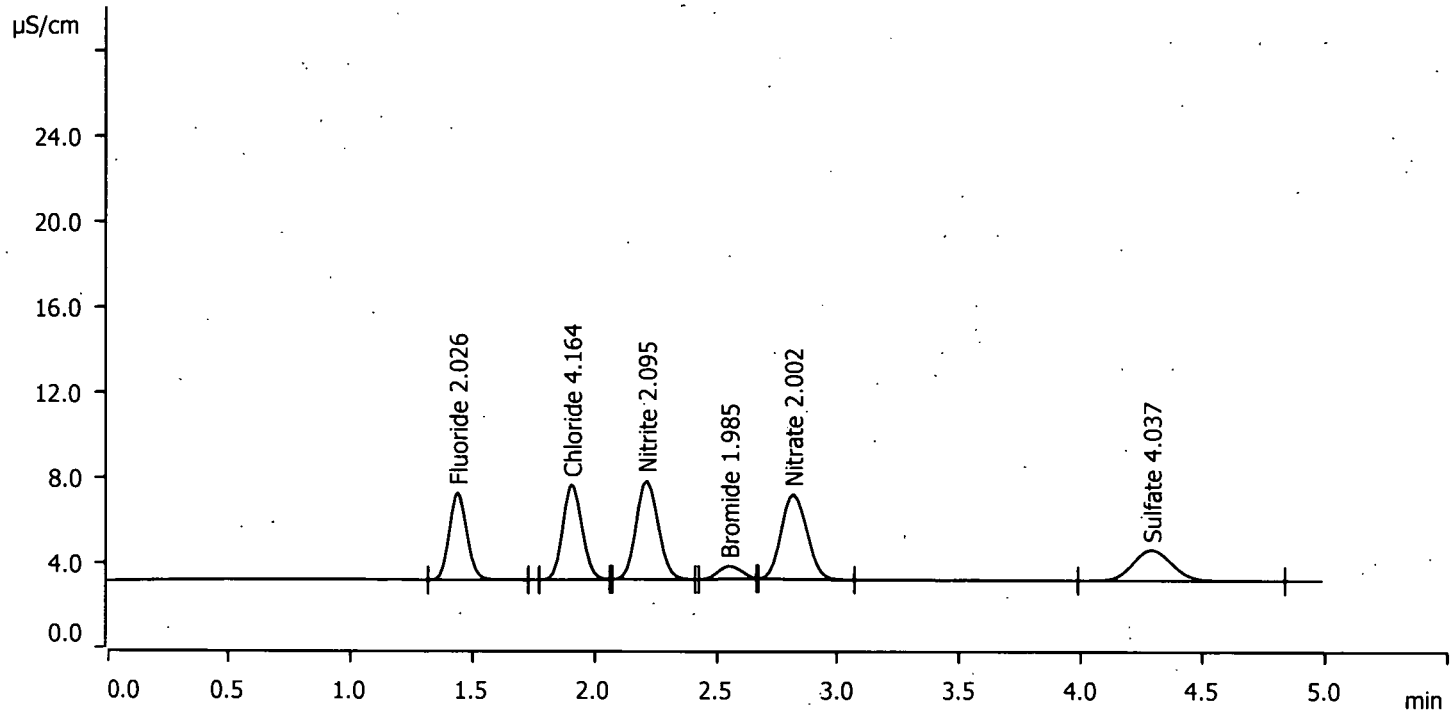
Anions

Peak number	Retention time	Area	Concentration	Component name	Type
	min	(µS/cm) x min	ppm		
1	1.91	0.026	3.298	Chloride	BB
2	4.29	0.019	3.153	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-16 02:50:36 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92448
Sample Position	85
Comment 1	300.0/9056A
Comment 2	

Anions



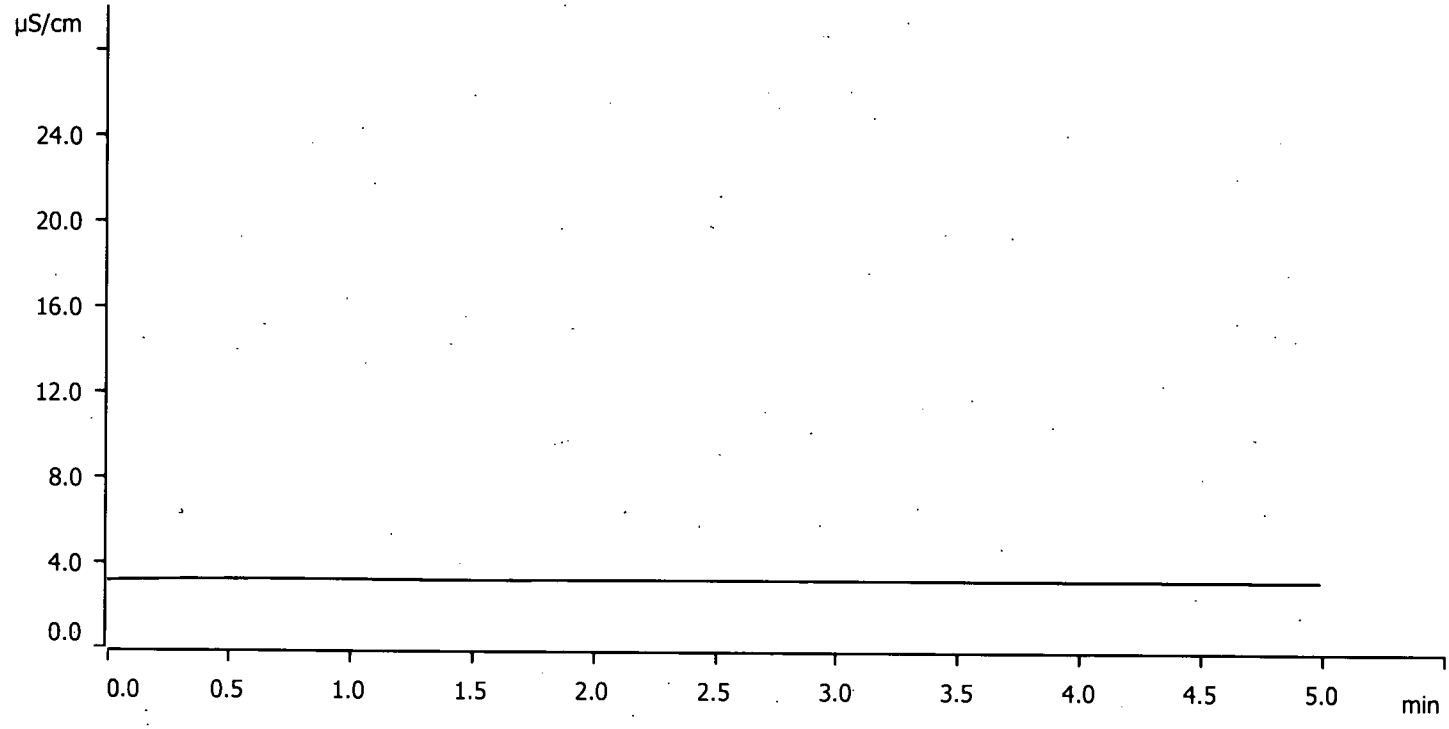
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.340	2.026	Fluoride	BB
2	1.91	0.404	4.164	Chloride	BB
3	2.22	0.485	2.095	Nitrite	BB
4	2.56	0.066	1.985	Bromide	BB
5	2.82	0.487	2.002	Nitrate	BB
6	4.29	0.270	4.037	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-16 02:56:52 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92449
Sample Position	86
Comment 1	300.0/9056A
Comment 2	

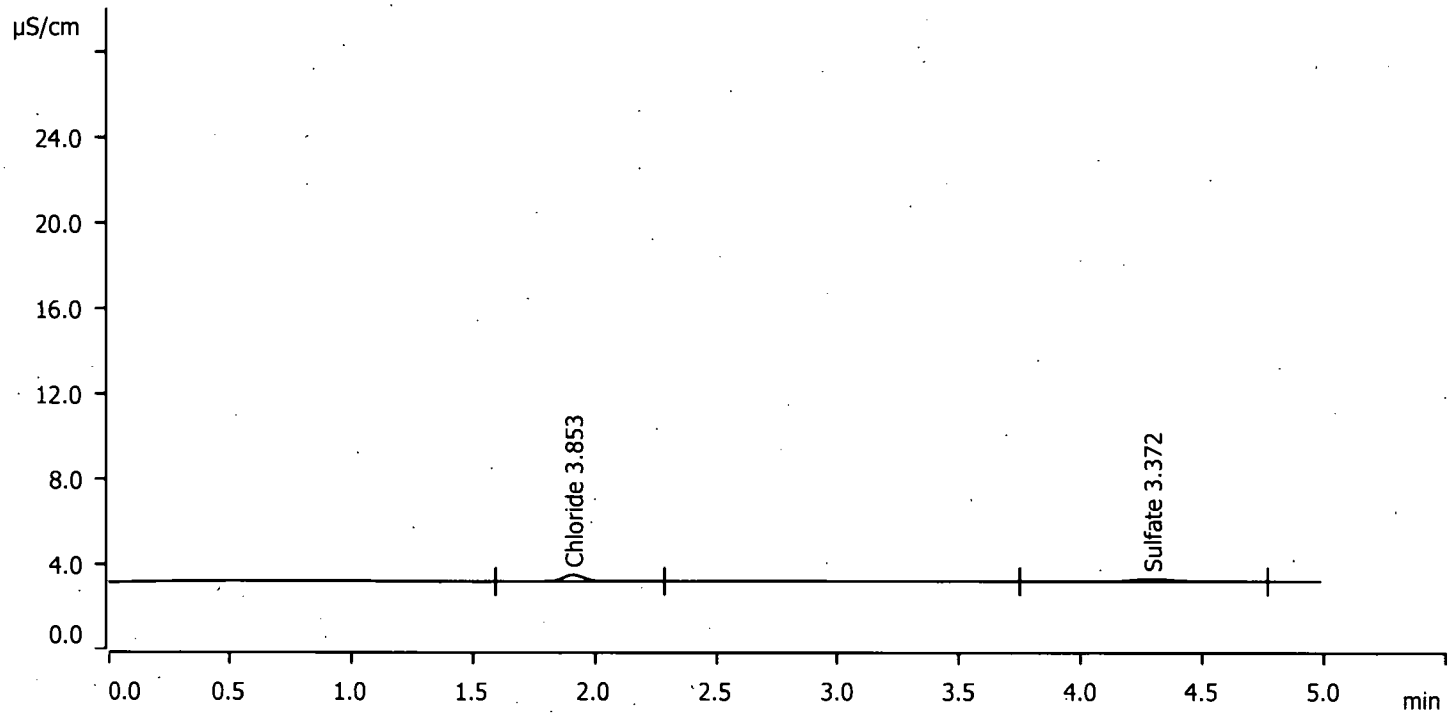
Anions



Sample data

Ident	R2408337-003
Sample type	Sample
Determination start	2024-09-16 03:03:06 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92450
Sample Position	87
Comment 1	300.0 CS
Comment 2	

Anions



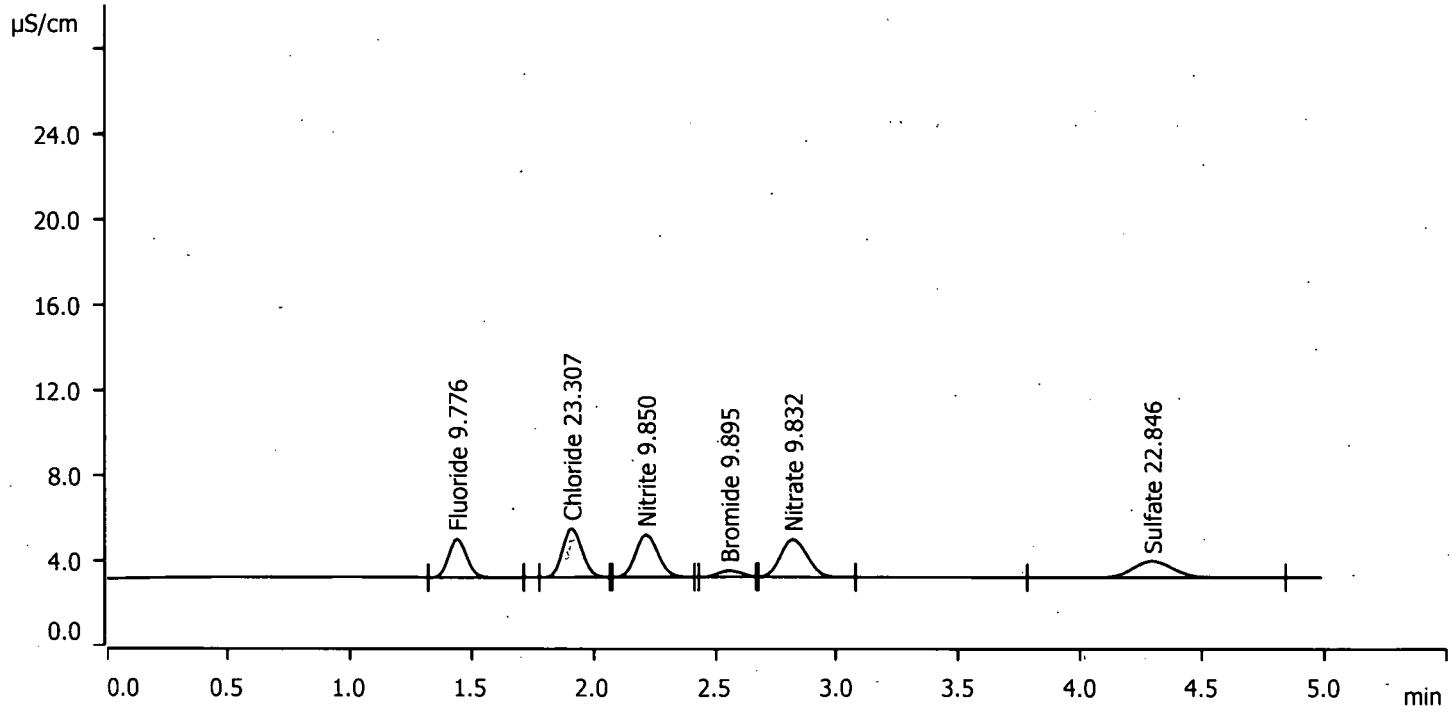
Anions

Peak number	Retention time	Area	Concentration	Component name	Type
	min	(µS/cm) x min	ppm		
1	1.91	0.031	3.853	Chloride	BB
2	4.29	0.021	3.372	Sulfate	BB

Sample data

Ident	R2408337-003 MS
Sample type	Sample
Determination start	2024-09-16 03:09:21 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92451
Sample Position	88
Comment 1	300.0 CS
Comment 2	

Anions



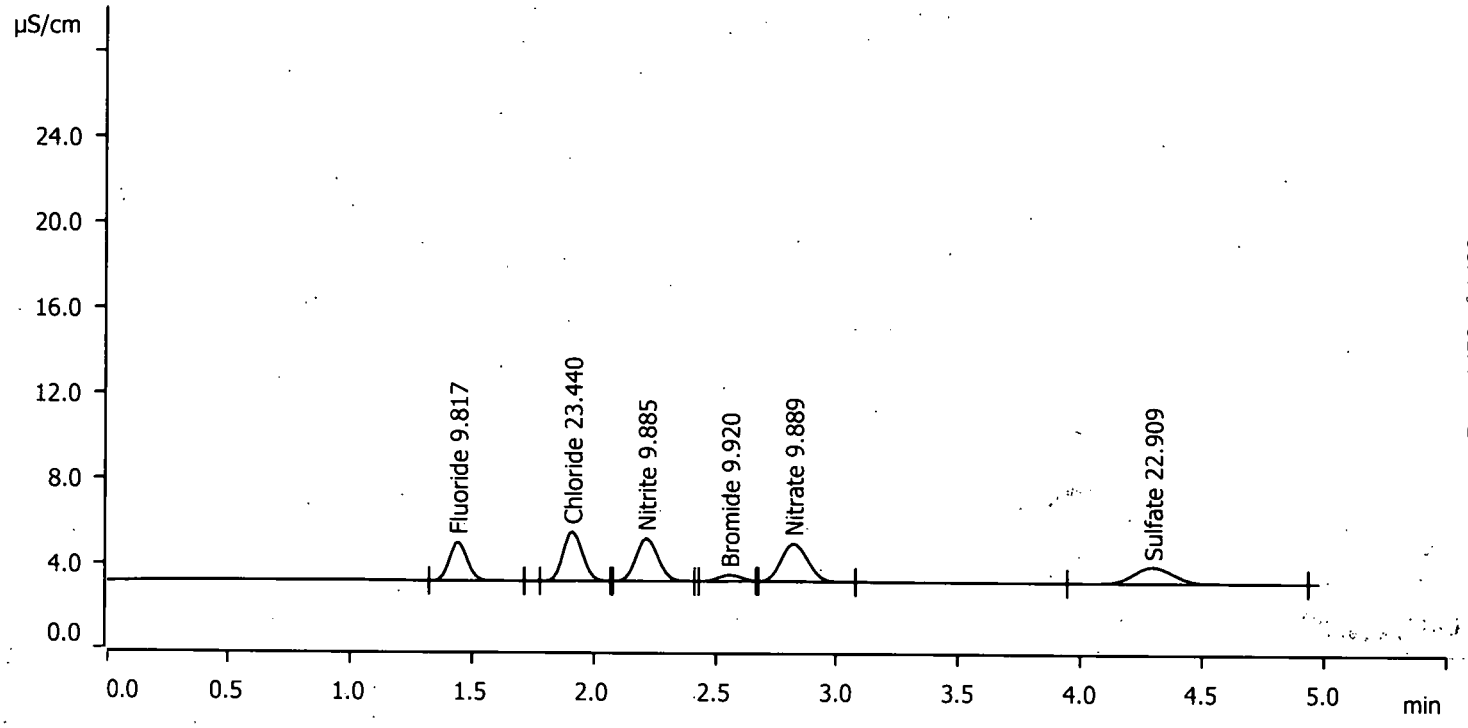
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.153	9.776	Fluoride	BB
2	1.91	0.212	23.307	Chloride	BB
3	2.22	0.213	9.850	Nitrite	BB
4	2.56	0.032	9.895	Bromide	BB
5	2.82	0.221	9.832	Nitrate	BB
6	4.29	0.147	22.846	Sulfate	BB

Sample data

Ident	R2408337-003 MSD
Sample type	Sample
Determination start	2024-09-16 03:15:36 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92452
Sample Position	89
Comment 1	300.0 CS
Comment 2	

Anions



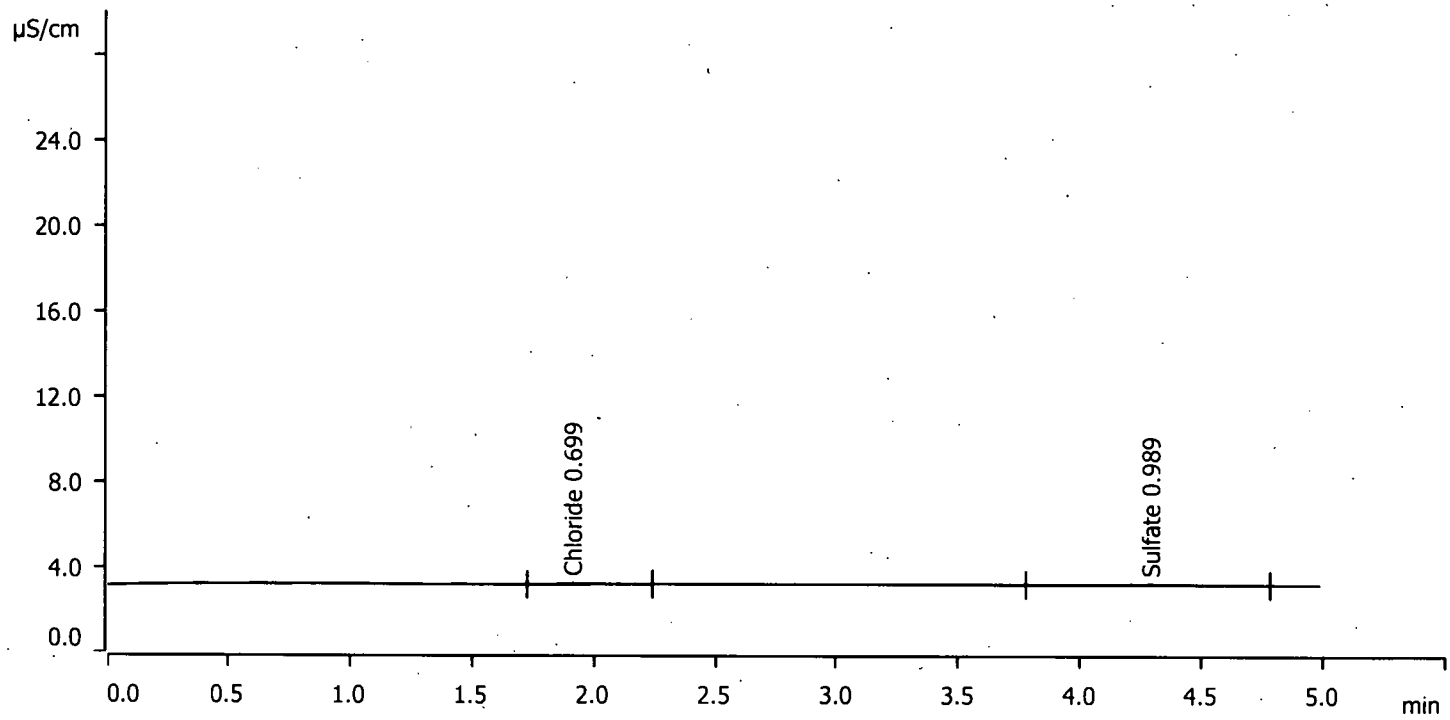
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.154	9.817	Fluoride	BB
2	1.91	0.214	23.440	Chloride	BB
3	2.22	0.213	9.885	Nitrite	BB
4	2.56	0.032	9.920	Bromide	BB
5	2.82	0.222	9.889	Nitrate	BB
6	4.29	0.148	22.909	Sulfate	BB

Sample data

Ident	R2408337-005
Sample type	Sample
Determination start	2024-09-16 03:21:51 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92453
Sample Position	90
Comment 1	300.0 CS
Comment 2	

Anions



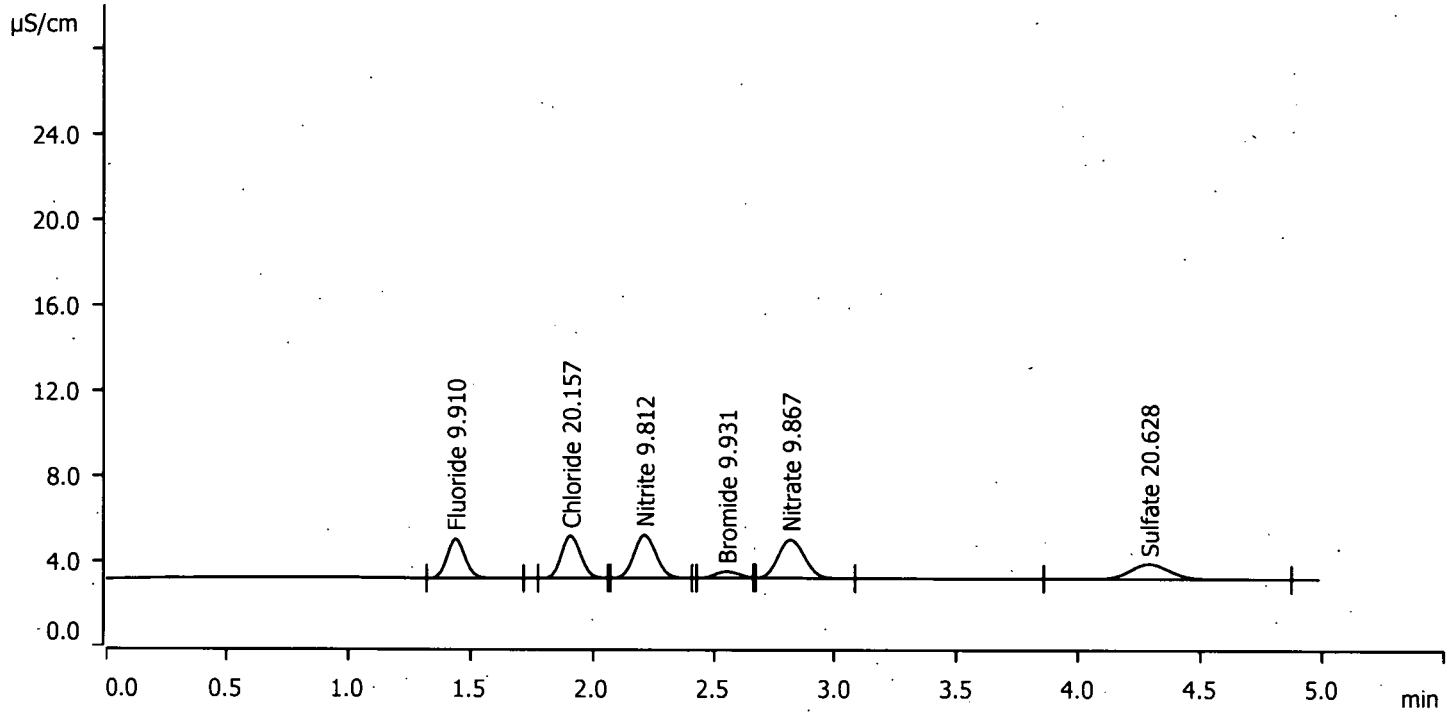
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.004	0.699	Chloride	BB
2	4.29	0.006	0.989	Sulfate	BB

Sample data

Ident	R2408337-005 MS!
Sample type	Sample
Determination start	2024-09-16 03:28:06 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92454
Sample Position	91
Comment 1	300.0 CS
Comment 2	

Anions



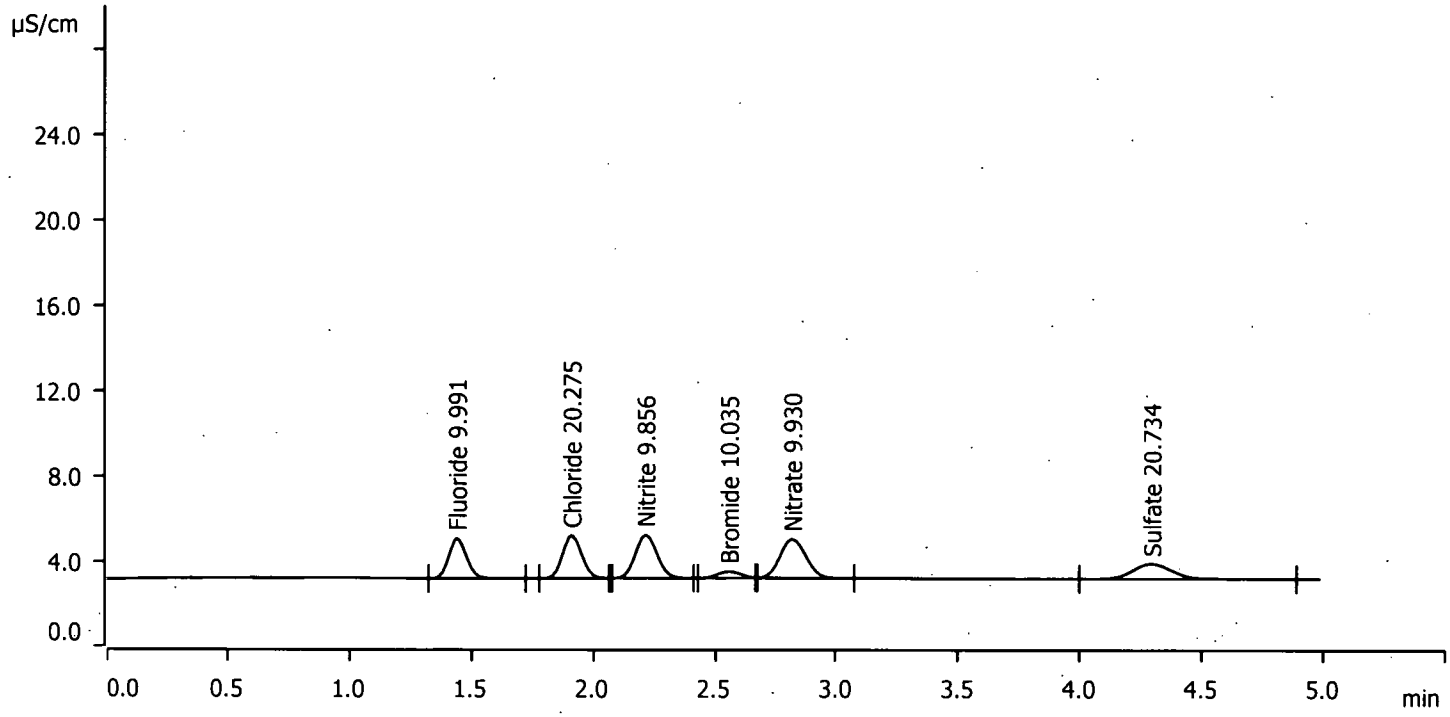
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.155	9.910	Fluoride	BB
2	1.91	0.181	20.157	Chloride	BB
3	2.22	0.212	9.812	Nitrite	BB
4	2.56	0.032	9.931	Bromide	BB
5	2.82	0.222	9.867	Nitrate	BB
6	4.29	0.133	20.628	Sulfate	BB

Sample data

Ident	R2408337-005 MSD!
Sample type	Sample
Determination start	2024-09-16 03:34:22 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92455
Sample Position	92
Comment 1	300.0 CS
Comment 2	

Anions



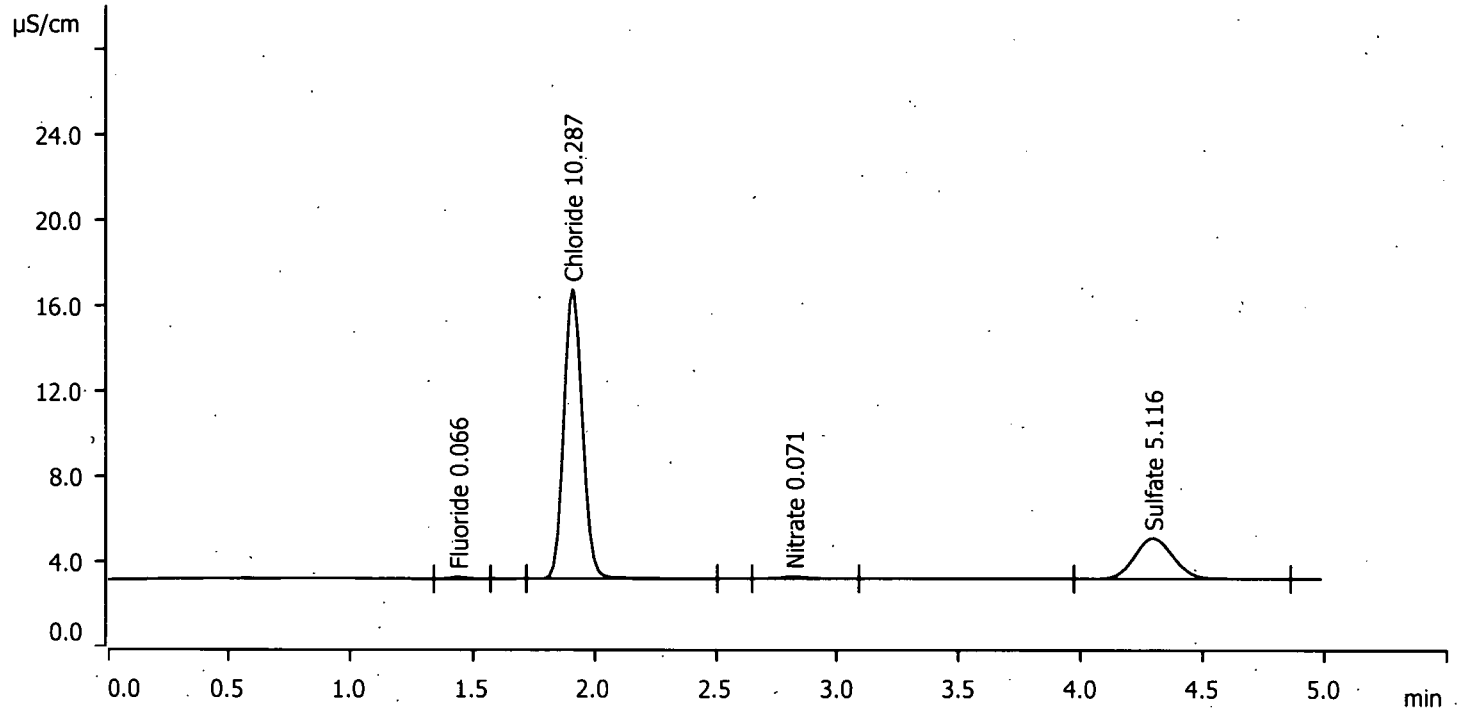
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.157	9.991	Fluoride	BB
2	1.91	0.183	20.275	Chloride	BB
3	2.22	0.213	9.856	Nitrite	BB
4	2.56	0.032	10.035	Bromide	BB
5	2.82	0.223	9.930	Nitrate	BB
6	4.29	0.133	20.734	Sulfate	BB

Sample data

Ident	R2408341-001
Sample type	Sample
Determination start	2024-09-16 03:40:37 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92456
Sample Position	93
Comment 1	300.0 FS
Comment 2	

Anions



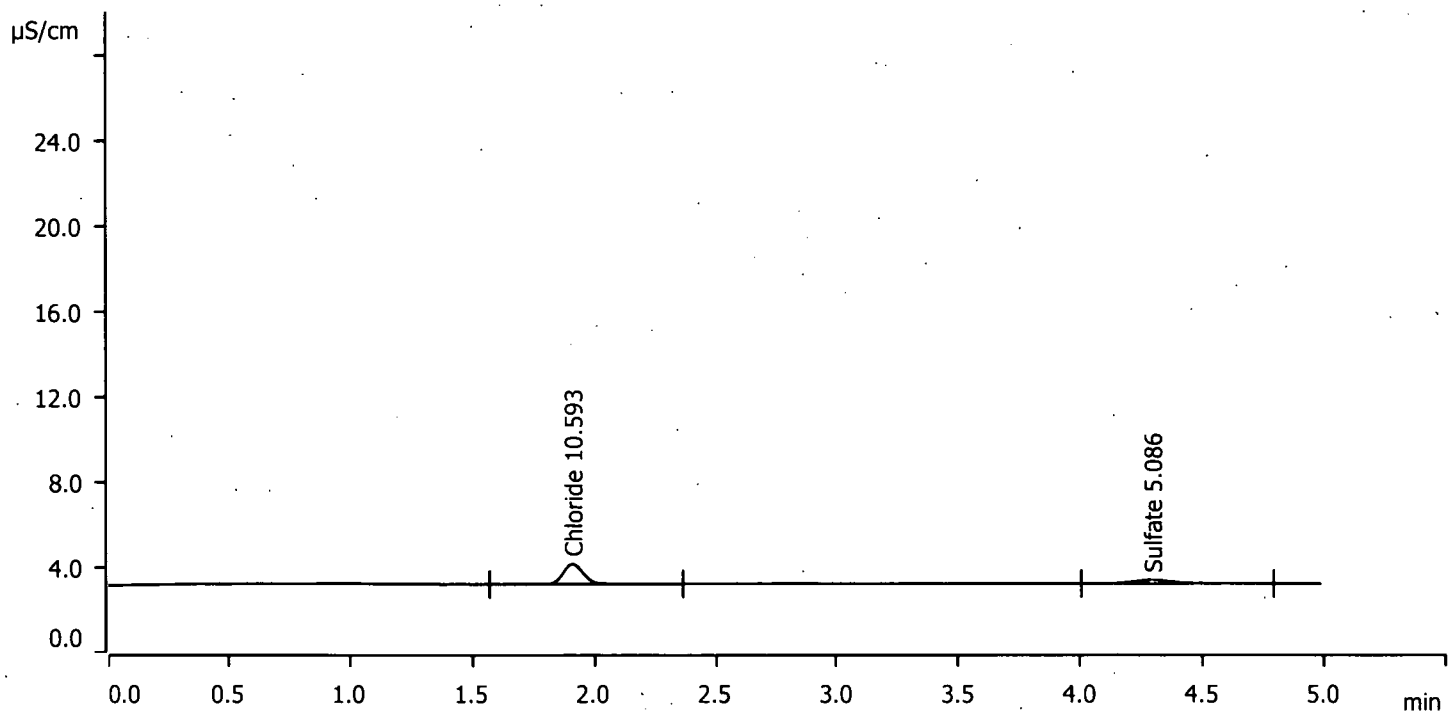
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.007	0.066	Fluoride	BB
2	1.91	1.195	10.287	Chloride	BB
3	2.82	0.011	0.071	Nitrate	BB
4	4.30	0.350	5.116	Sulfate	BB

Sample data

Ident	R2408341-001
Sample type	Sample
Determination start	2024-09-16 03:46:52 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92457
Sample Position	94
Comment 1	300.0 C
Comment 2	

Anions



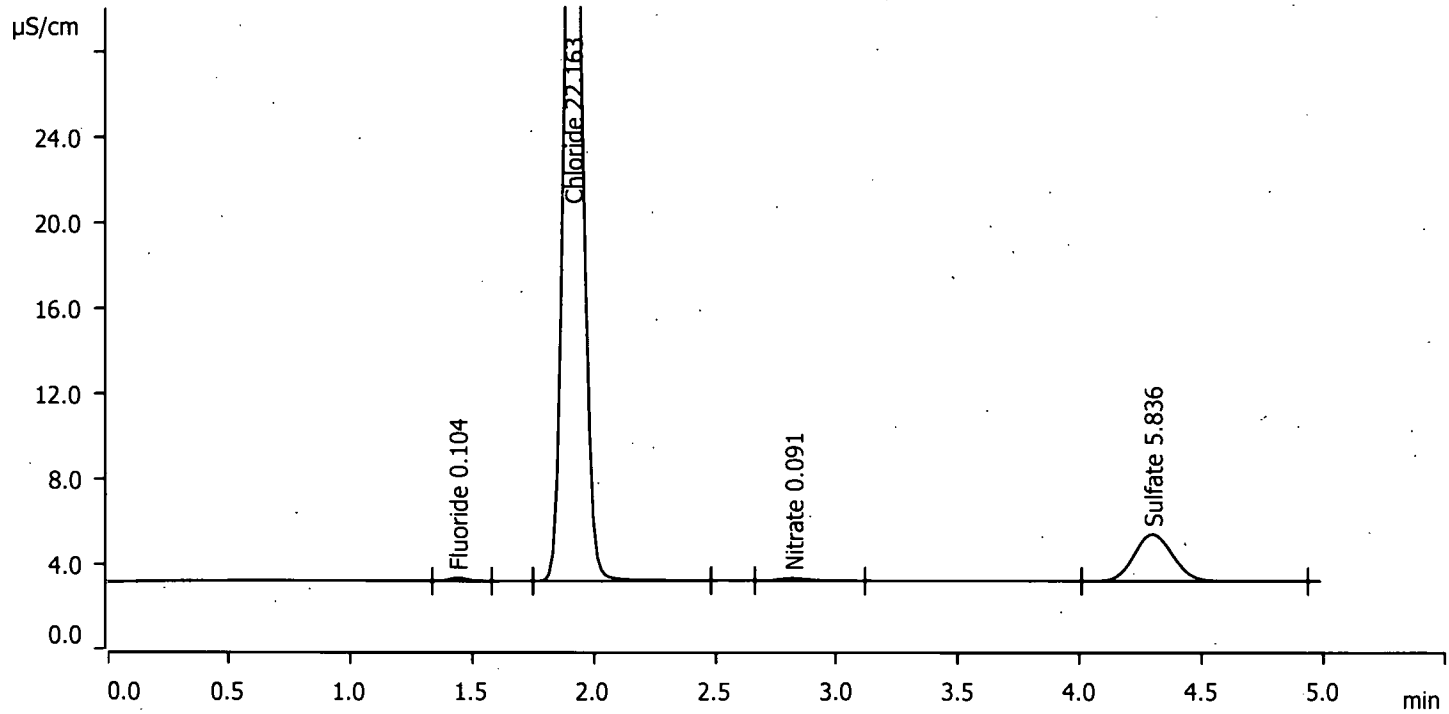
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.091	10.593	Chloride	BB
2	4.29	0.032	5.086	Sulfate	BB

Sample data

Ident	R2408341-003
Sample type	Sample
Determination start	2024-09-16 03:53:07 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92458
Sample Position	95
Comment 1	300.0 FS
Comment 2	

Anions



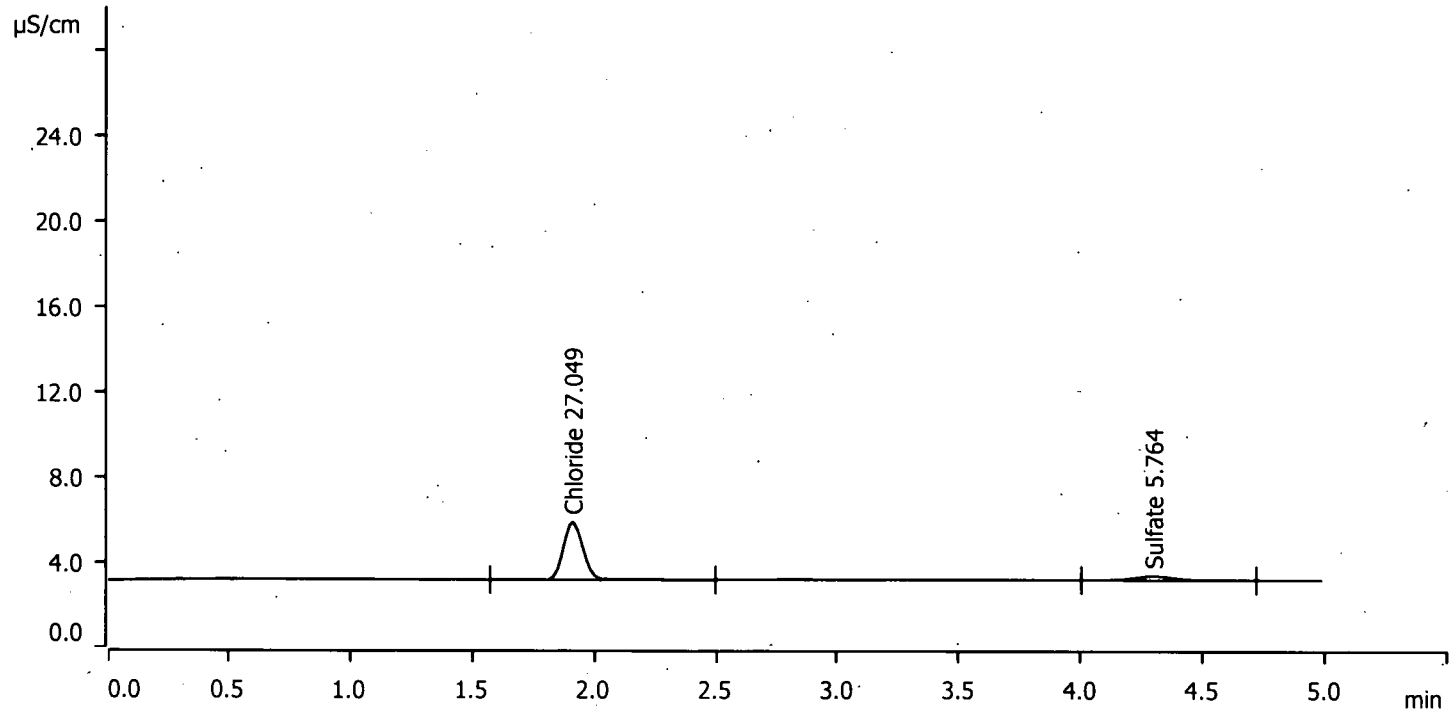
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.013	0.104	Fluoride	BB
2	1.92	3.387	22.163	Chloride	BB
3	2.82	0.015	0.091	Nitrate	BB
4	4.30	0.405	5.836	Sulfate	BB

Sample data

Ident	R2408341-003
Sample type	Sample
Determination start	2024-09-16 03:59:22 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92459
Sample Position	96
Comment 1	300.0 C
Comment 2	

Anions



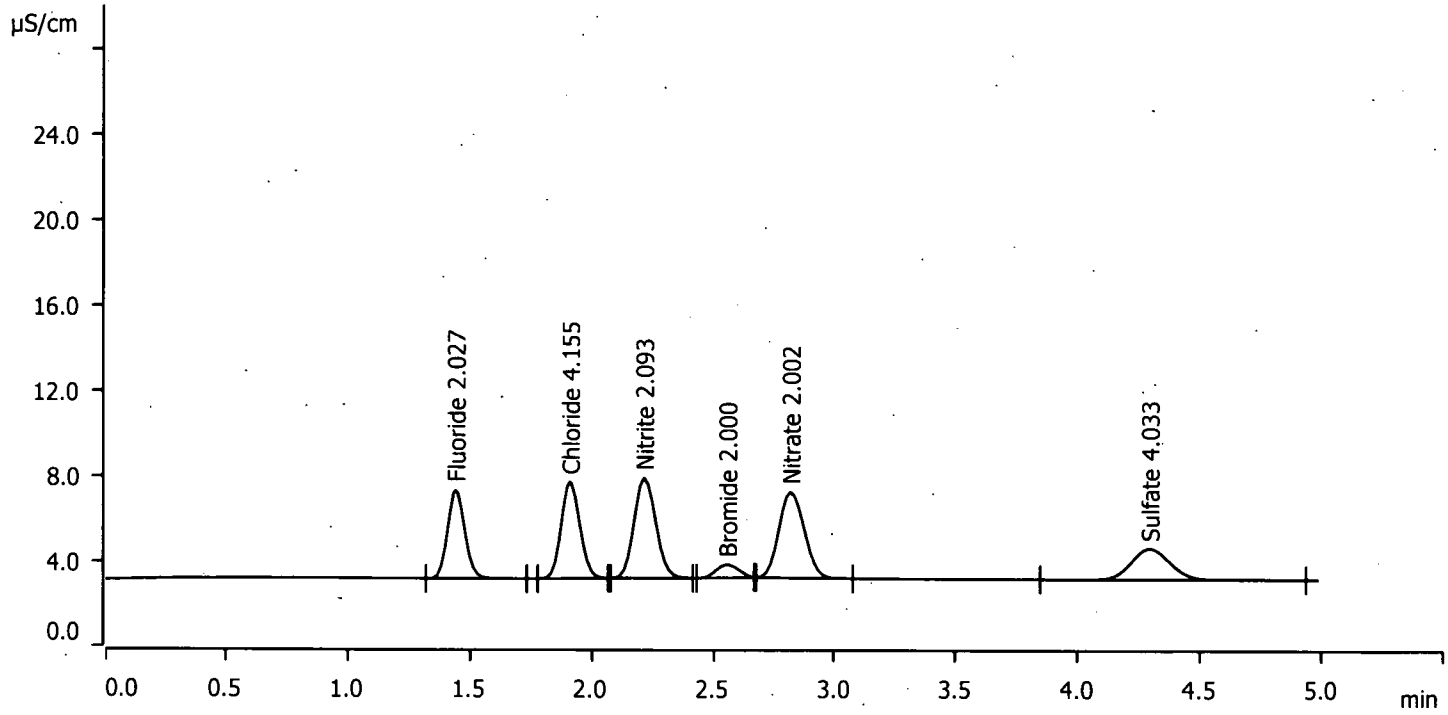
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.250	27.049	Chloride	BB
2	4.30	0.036	5.764	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-16 04:05:37 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92460
Sample Position	97
Comment 1	300.0/9056A
Comment 2	

Anions



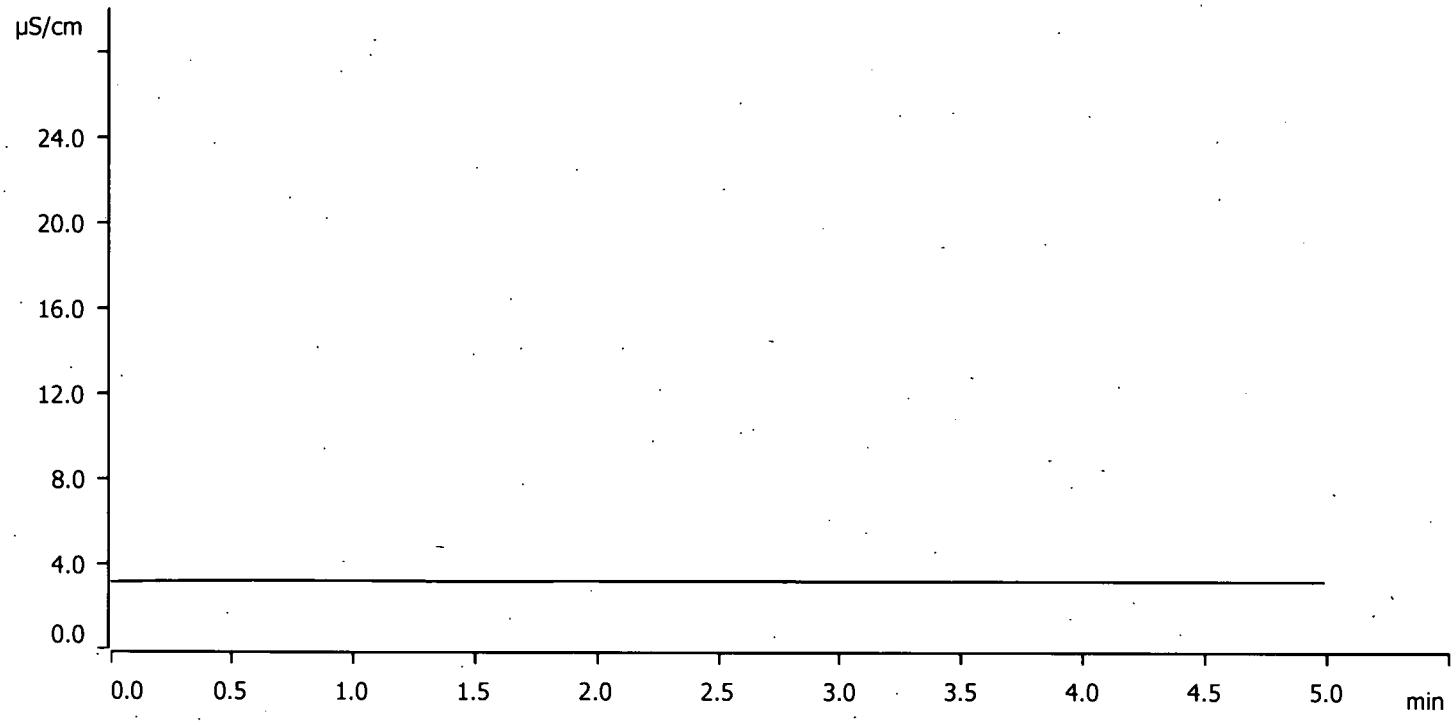
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.340	2.027	Fluoride	BB
2	1.91	0.403	4.155	Chloride	BB
3	2.22	0.485	2.093	Nitrite	BB
4	2.56	0.066	2.000	Bromide	BB
5	2.82	0.487	2.002	Nitrate	BB
6	4.29	0.270	4.033	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-16 04:11:53 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92461
Sample Position	98
Comment 1	300.0/9056A
Comment 2	

Anions



ALS Environmental

1575 Jefferson Road, Building 300, Suite 360, Rochester, New York 14623

Ion Chromatography Cover Sheet

Instrument: Metrohm IC 930 (IC#10)

Column: Dionex IonPac AS22-Fast (Installed 07/25/2024)

Curve Date: 09/12/24 **Loop size: 25 uL Loop**

Analyst: KW|KAW **Analysis Date:** 9-15-24

Balance ID for Soil Preparation: N|A

Is copy of LCS attached to run? (YES) NO

Method Filename: 10-091224FAST

Standards Prep Dates & Log ID's:

Std Type	*Prep Date*	*Log ID*		*Std Type*	*Prep Date*	*Log ID*
Calibration Intermediate	08/09/2024	236789		Working Calibration Stds	09/12/2024	WC236014B
LCS / MS Intermediate	08/09/2024	236789		Working LCS/MS Standard	09/15/2024	WC236098K
ICV Intermediate	08/09/2024	236787		Working ICV Standard	09/12/2024	WC236040I
CCV Intermediate	08/09/2024	236787		Working CCV Standard	09/15/2024	WC236040K

Original Retention Times for this method are based on Standard 6 and are as follows:

Fluoride: 1.44	Bromide: 2.56
Chloride: 1.91	Nitrate: 2.82
Nitrite: 2.22	Sulfate: 4.27

Additional Comments: Column Serial Number: 240212573
Linear Range Verification (High Standard) Analyzed: 03/09/2024 – Due Every Six Months

Pipets: Chrome, Bottom
Disposable Pipet ID: (Fisher) 26023005

Eluent Stock (100x): 235121
Suppressor Stock (5x): 235047

LCS Prep

(Stocks delivered using volumetric glassware and brought to volume with DI. LCS expires after 7 days; if NO_2 is needed, LCS must be prepared daily.)

(MS prepared fresh daily using same volume of intermediate stock added to 100mLs sample. MS not prepared volumetrically.)

Analyte	Calibration Intermediate Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst / Date Prepped	Lot ID	Exp. Date	Matrix H_2SO_4 / NaOH / DI	H_2SO_4 / NaOH Lot #
F	2367894	50	2.0	200	1.0	KW 9/3/24	A	9/10/24	DI	—
Cl		100			2.0	KW 9/4/24	B	9/11/24	DI	—
NO_2		50			1.0	KW 9/5/24	C	9/12/24	DI	—
Br		50			1.0	KW 9/6/24	D	9/13/24	DI	—
NO_3		50			1.0	KW 9/7/24	E	9/14/24	DI	—
OPO_4		50			1.0	KW 9/9/24	F	9/16/24	DI	—
SO_4		100			2.0	KW 9/10/24	G	9/17/24	DI	—
						KW 9/11/24	H	9/18/24	DI	—
						KW 9/12/24	I	9/19/24	DI	—
						KW 9/14/24	J	9/21/24	DI	—
						KW 9/15/24	K	9/22/24	DI	—
						KW 9/16/24	L	9/23/24	DI	—
							M			
							N			
							O			
							P			
							Q			
							R			

ICV / CCV PREP

(A 1:1 dilution of the Reference Intermediate Stock is done daily.)

Analyte	ICV / CCV Intermediate Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst / Date Prepped	Lot ID	Exp. Date	Matrix H_2SO_4 / NaOH / DI	H_2SO_4 / NaOH Lot #
F	236787	4.00	5.0	10.0	2.00	KW 9/3/24	A	9/4/24	DI	—
Cl		8.00			4.00	KW 9/4/24	B	9/5/24	DI	—
NO_2		4.00			2.00	KW 9/5/24	C	9/6/24	DI	—
Br		4.00			2.00	KW 9/6/24	D	9/7/24	DI	—
NO_3		4.00			2.00	KW 9/7/24	E	9/8/24	DI	—
OPO_4		4.00			2.00	KW 9/9/24	F	9/10/24	DI	—
SO_4		8.00			4.00	KW 9/10/24	G	9/11/24	DI	—
						KW 9/11/24	H	9/12/24	DI	—
						KW 9/12/24	I	9/13/24	DI	—
						KW 9/14/24	J	9/15/24	DI	—
						KW 9/15/24	K	9/16/24	DI	—
						KW 9/16/24	L	9/17/24	DI	—
							M			
							N			
							O			
							P			
							Q			
							R			

Analysis: 300.0/9056A
ICAL Date: 9/12/24
Instrument: IC# 10
Curve Type: Linear (Quadratic)

IC Initial Calibration Checklist

☐ 1. Is the required documentation in the ICAL file?
- ☑ IC Cover Sheet – correct?
- ☑ Logbook Copies Complete
- ☑ Method Parameters Report
- ☑ Plots of all analytes
- ☑ Chromatograms of all curve points, ICV, ICB

☑ 2. Was the ICAL performed continuously (i.e., not interrupted for maintenance or for sample analysis)?

KW 9/16/24 NA ☐ 3. For any reanalyzed points, was reanalysis within 8 hours of the final standard of the original ICAL?

☑ 4. Are all the analytes in the blank analysis < MRL?

☑ 5. Have the retention times been updated from the mid-point calibration standard?

☑ 6. Does each analyte's ICAL include, consecutively, the minimum number of concentration levels (3 for linear regression for 300.0, 9056, 7199, 218.6; six for 218.7; six plus blank for any quadratic curve)?

☑ 7. For each analyte, is the lowest standard's concentration at or below the analyte's MRL?

☑ 8. For each analyte, are there no levels skipped?

☑ 9. For each analyte, does a check of the linearity meet a correlation coefficient of ≥0.995 (Method 300/9056) or ≥0.999 (Methods 7199/218.6/218.7)?

☑ 10. For the ICV analysis, is the percent recovery for each analyte 90 – 110% (300.0/9056/7199); 95-105% (218.6); 85-115 (218.7)?

☑ 11. Are all peak integrations acceptable?

☑ 12. Do the peak areas match the Method Parameters Report (has the ICAL file been saved correctly)?

☑ 13. For each analyte, were the appropriate standards re-quantitated and printed?
- ☑ Did the LLOQ meet 50-150% recovery limits at the MRL level standard?
- ☑ Are recoveries of all standards greater than the MRL standard within (10% for 300.0/9056A; 15% for 218.7) of the true value? If a quadratic curve was used for 218.6/7199, are recoveries of all standards greater than the MRL within 10% of the true value?

COMMENTS

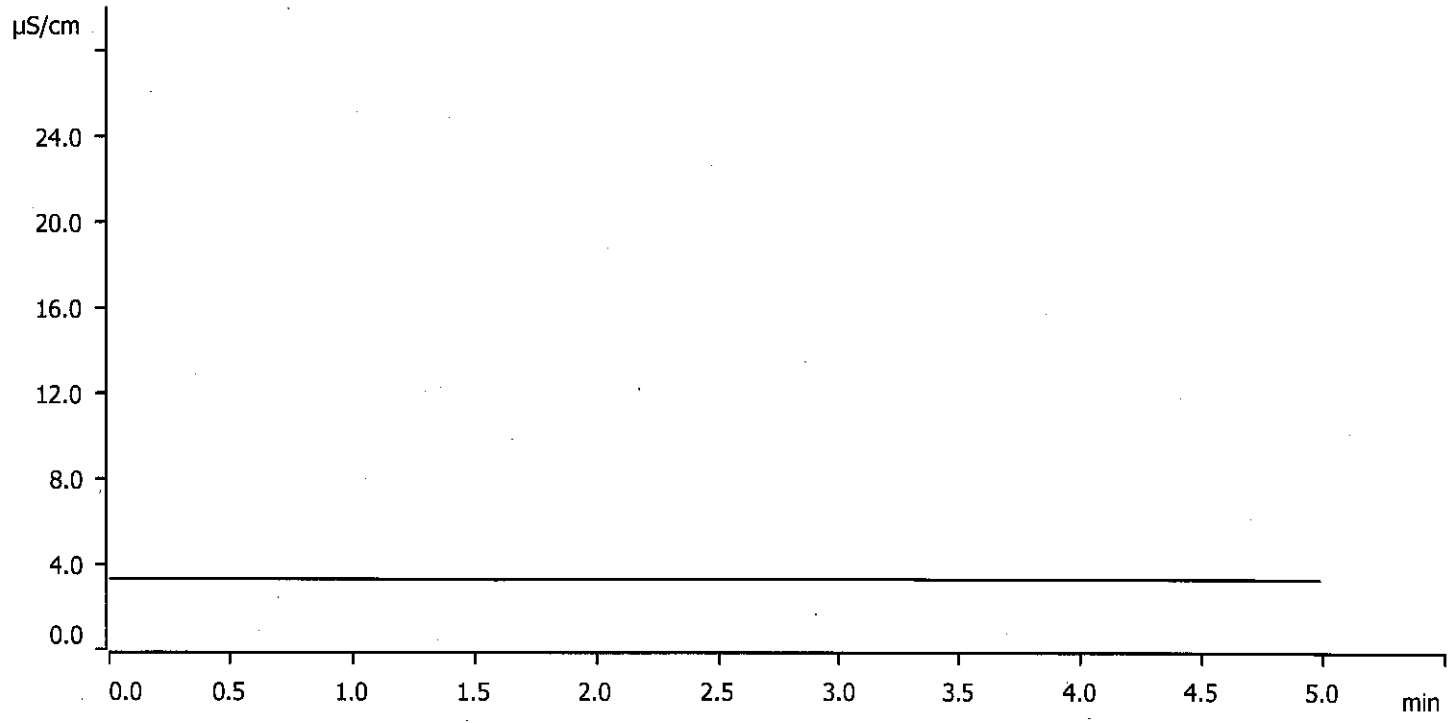
Analyst: KW Date: 9/16/24

Secondary Reviewer: [signature] Date: 9-16-24

Sample data

Ident	STANDARD 1
Sample type	Standard 1
Determination start	2024-09-12 22:04:27 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92042
Sample Position	1
Comment 1	300.0/9056A
Comment 2	

Anions

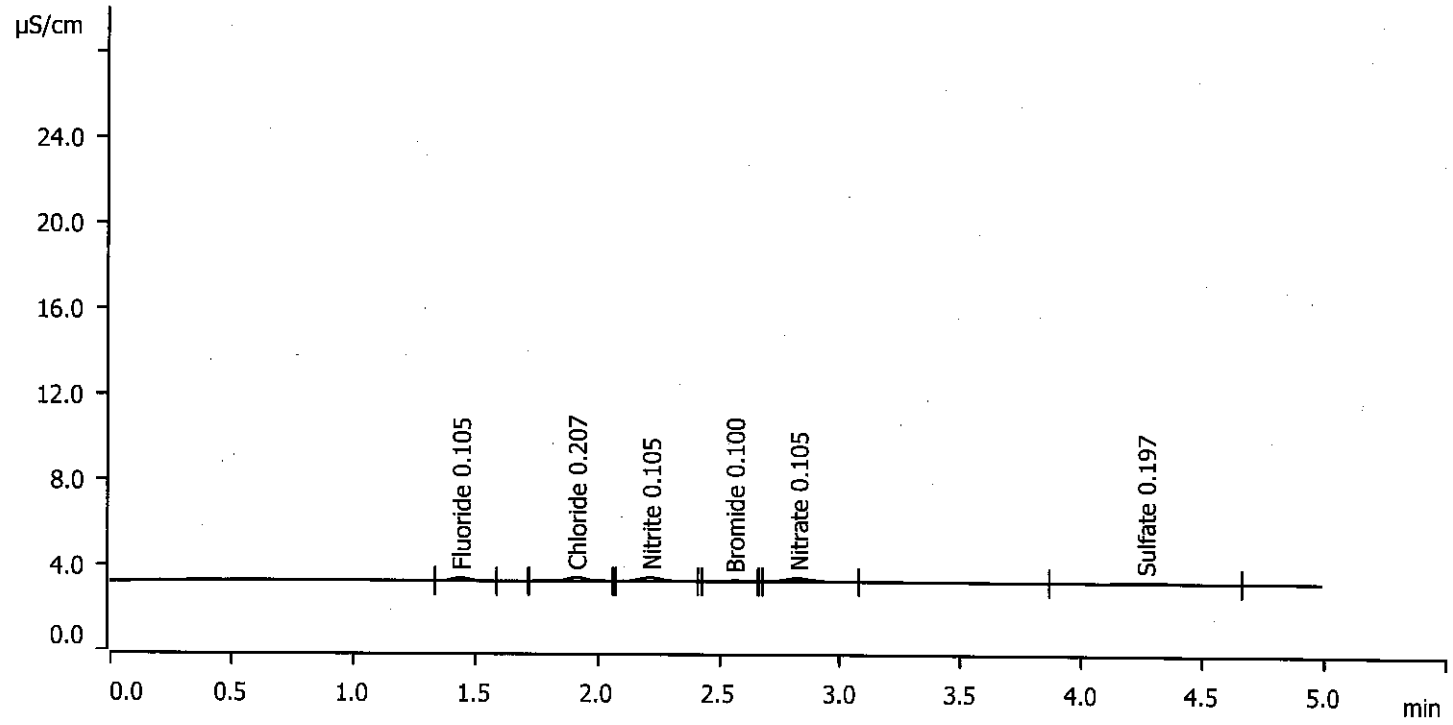


OC
KW
9/16/24

Sample data

Ident	STANDARD 2
Sample type	Standard 2
Determination start	2024-09-12 22:10:43 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92043
Sample Position	2
Comment 1	300.0/9056A
Comment 2	

Anions



Anions

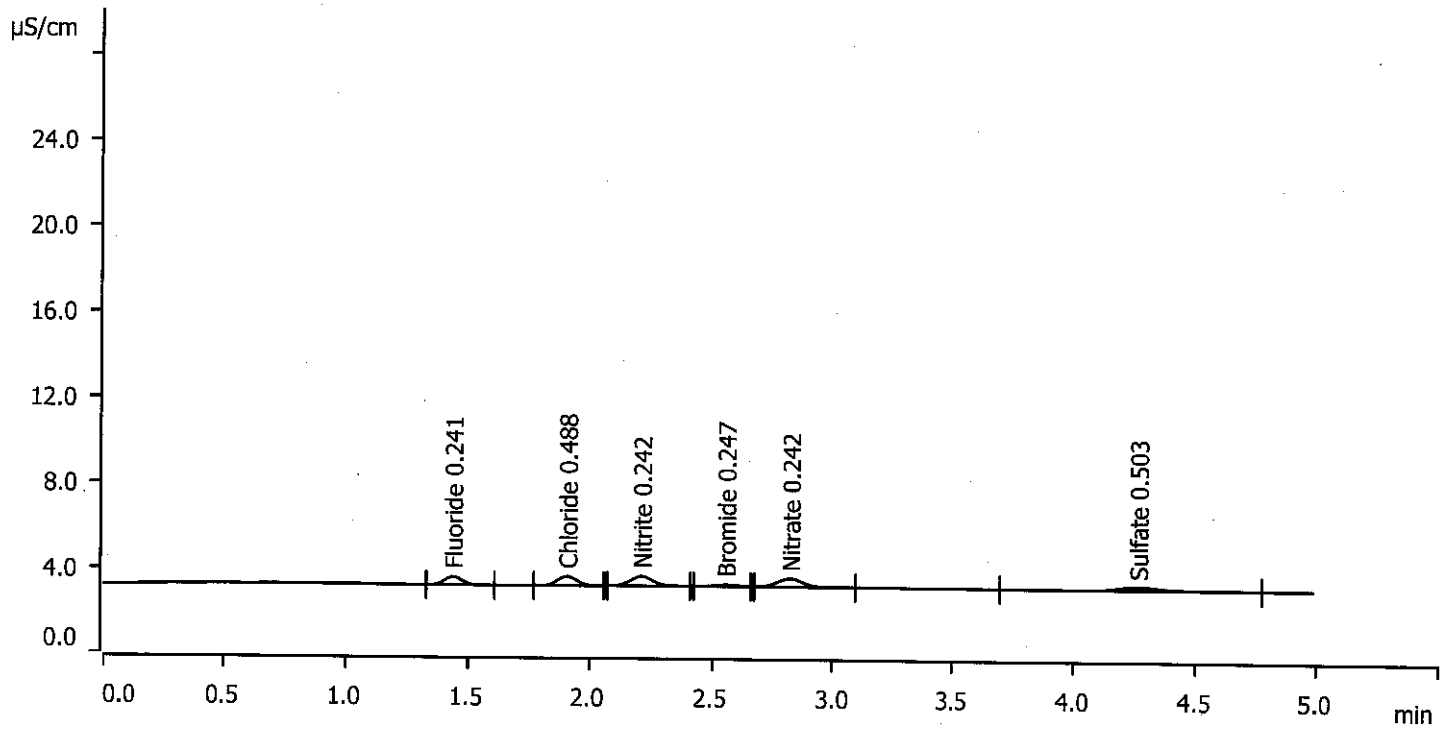
Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type	
1	1.44	0.013	0.105	Fluoride	BB	105%
2	1.91	0.016	0.207	Chloride	BB	103.5%
3	2.22	0.018	0.105	Nitrite	BB	105%
4	2.56	0.003	0.100	Bromide	BB	100%
5	2.83	0.018	0.105	Nitrate	BB	105%
6	4.26	0.012	0.197	Sulfate	BB	98.5%

KW
9/16/24

Sample data

Ident	STANDARD 3
Sample type	Standard 3
Determination start	2024-09-12 22:17:00 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92044
Sample Position	3
Comment 1	300.0/9056A
Comment 2	

Anions



Anions

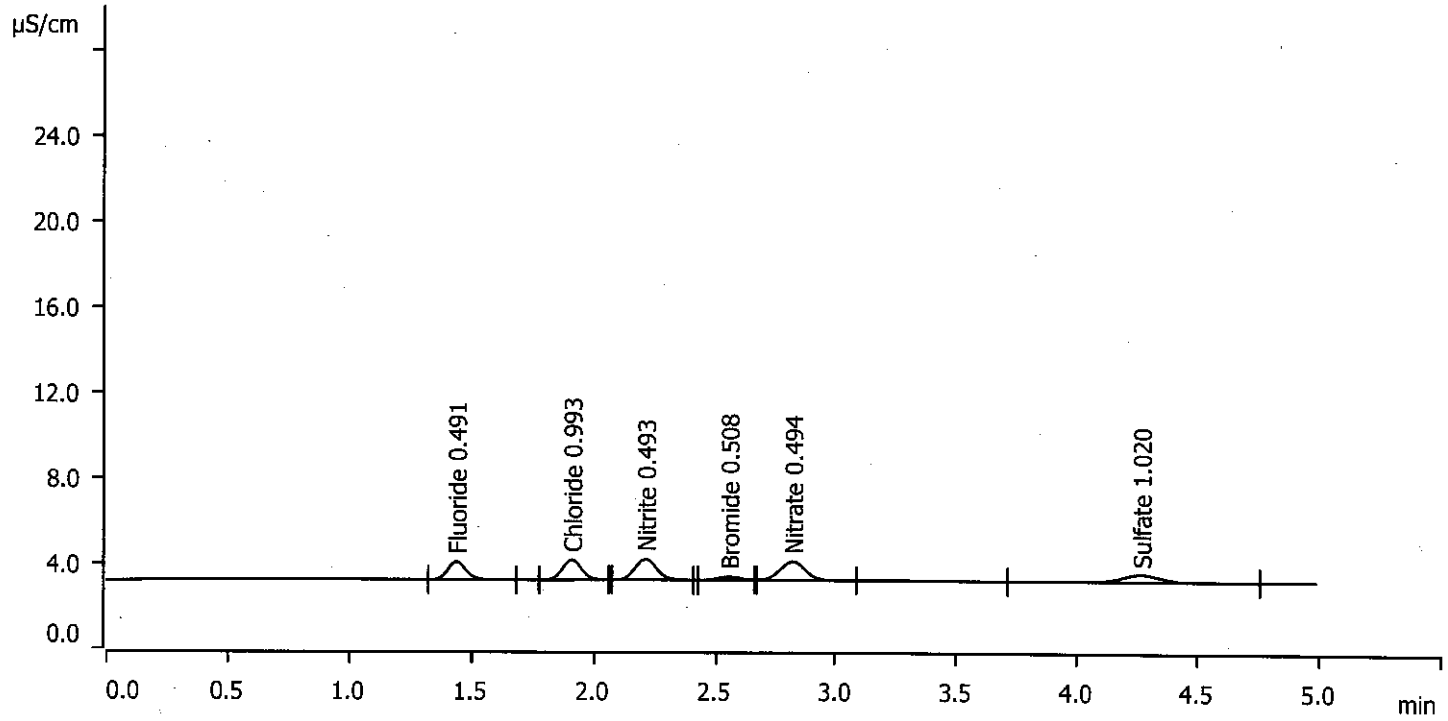
Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type	
1	1.44	0.034	0.241	Fluoride	BB	96.4%
2	1.91	0.040	0.488	Chloride	BB	97.6%
3	2.22	0.047	0.242	Nitrite	BB	96.8%
4	2.56	0.008	0.247	Bromide	BB	98.8%
5	2.82	0.048	0.242	Nitrate	BB	96.8%
6	4.26	0.031	0.503	Sulfate	BB	100.6%

KW
9/16/24

Sample data

Ident	STANDARD 4
Sample type	Standard 4
Determination start	2024-09-12 22:23:18 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92045
Sample Position	4
Comment 1	300.0/9056A
Comment 2	

Anions



Anions

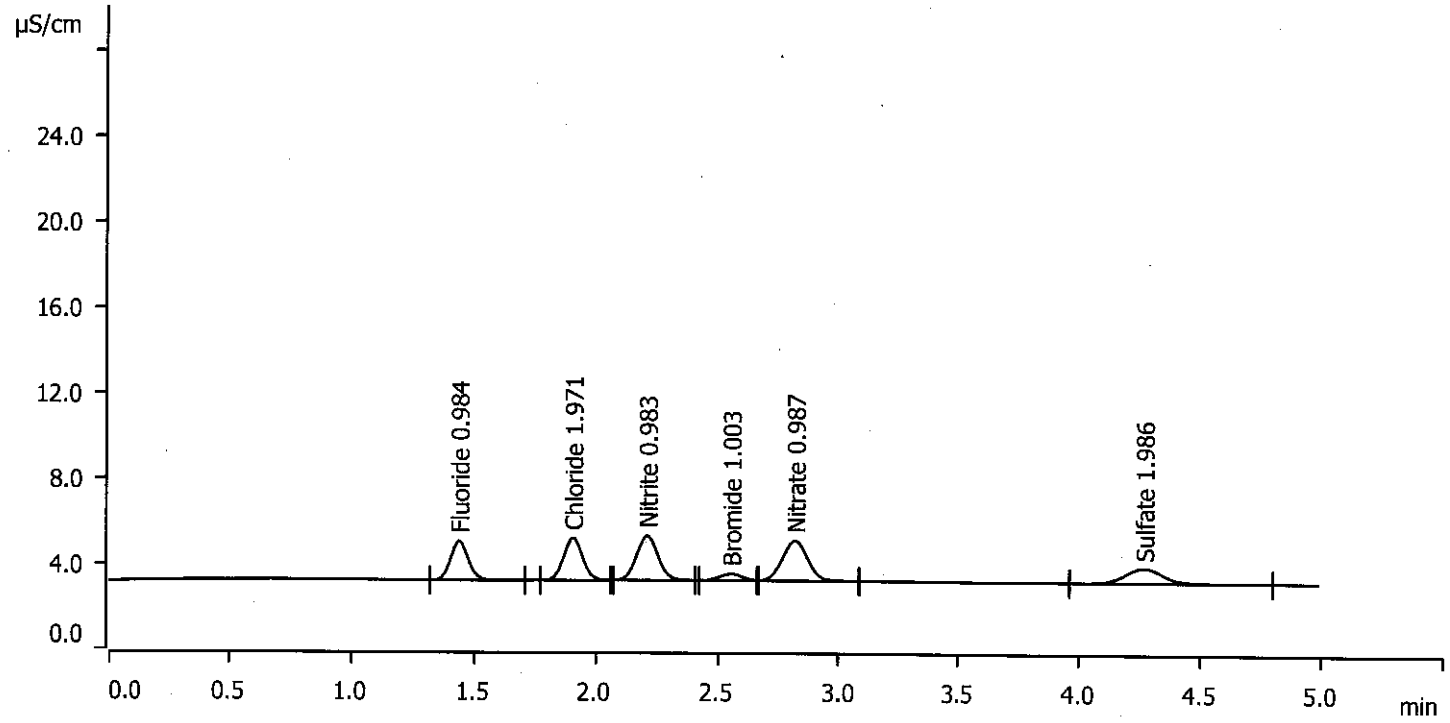
Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type	
1	1.44	0.073	0.491	Fluoride	BB	98.2%
2	1.91	0.085	0.993	Chloride	BB	99.3%
3	2.22	0.102	0.493	Nitrite	BB	98.6%
4	2.56	0.016	0.508	Bromide	BB	101.6%
5	2.82	0.105	0.494	Nitrate	BB	98.8%
6	4.27	0.064	1.020	Sulfate	BB	102%

KW
9/16/24

Sample data

Ident	STANDARD 5
Sample type	Standard 5
Determination start	2024-09-12 22:29:34 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92046
Sample Position	5
Comment 1	300.0/9056A
Comment 2	

Anions



Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type	
1	1.44	0.154	0.984	Fluoride	BB	98.4%
2	1.91	0.177	1.971	Chloride	BB	98.5%
3	2.22	0.212	0.983	Nitrite	BB	98.3%
4	2.56	0.032	1.003	Bromide	BB	100.3%
5	2.82	0.222	0.987	Nitrate	BB	98.7%
6	4.27	0.127	1.986	Sulfate	BB	99.3%

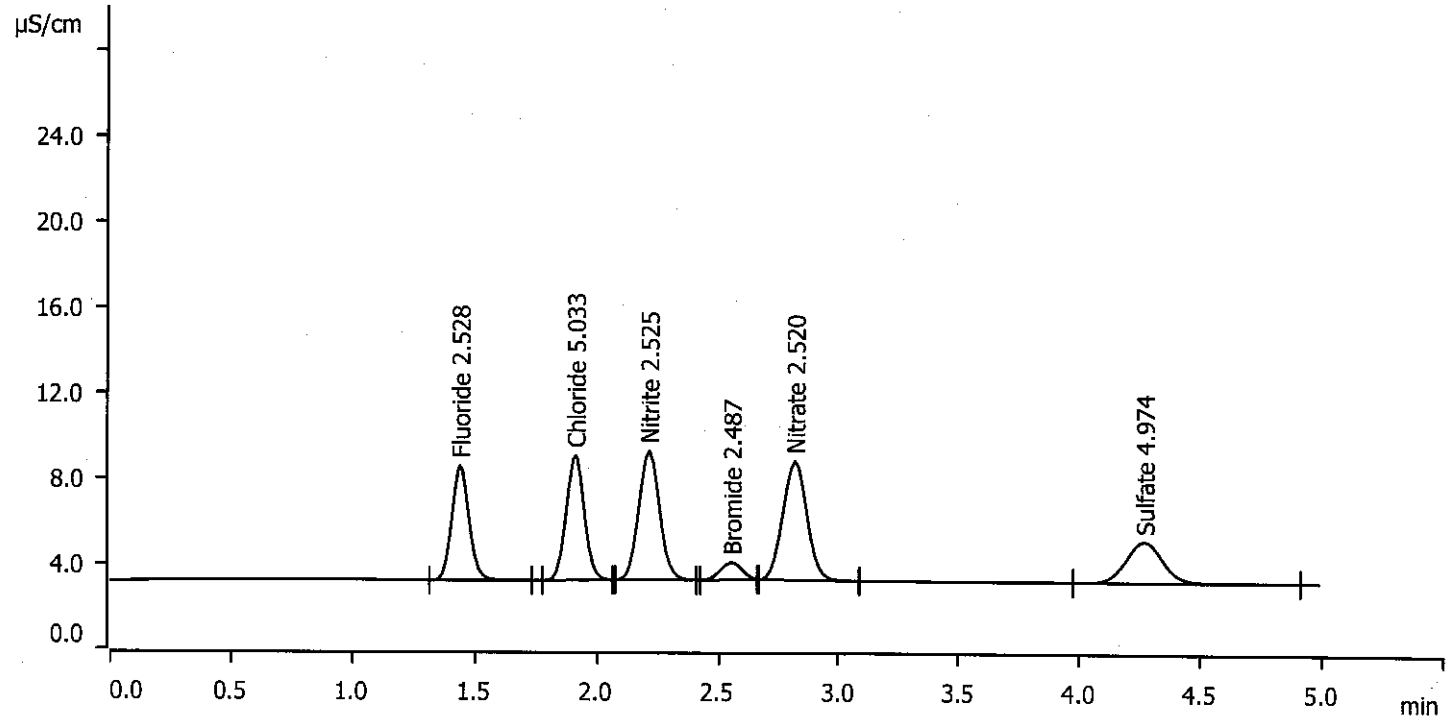
KW
9/16/24

Page 1 of 1

Sample data

Ident	STANDARD 6
Sample type	Standard 6
Determination start	2024-09-12 22:35:50 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92047
Sample Position	6
Comment 1	300.0/9056A
Comment 2	

Anions



Anions

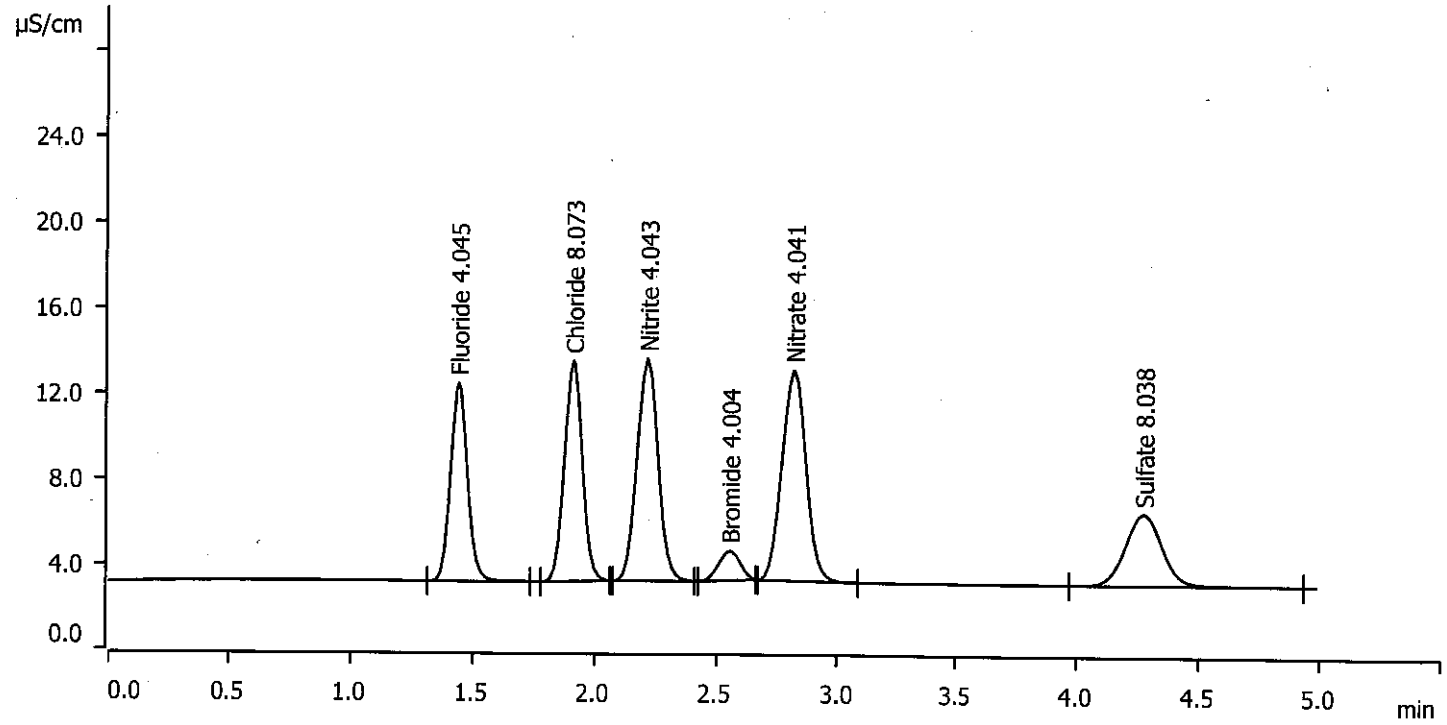
Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type	
1	1.44	0.436	2.528	Fluoride	BB	101.1%
2	1.91	0.502	5.033	Chloride	BB	100.7%
3	2.22	0.599	2.525	Nitrite	BB	101%
4	2.56	0.084	2.487	Bromide	BB	99.5%
5	2.82	0.636	2.520	Nitrate	BB	100.8%
6	4.27	0.339	4.974	Sulfate	BB	99.5%

KW
9/16/24

Sample data

Ident	STANDARD 7
Sample type	Standard 7
Determination start	2024-09-12 22:42:06 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92048
Sample Position	7
Comment 1	300.0/9056A
Comment 2	

Anions



Anions

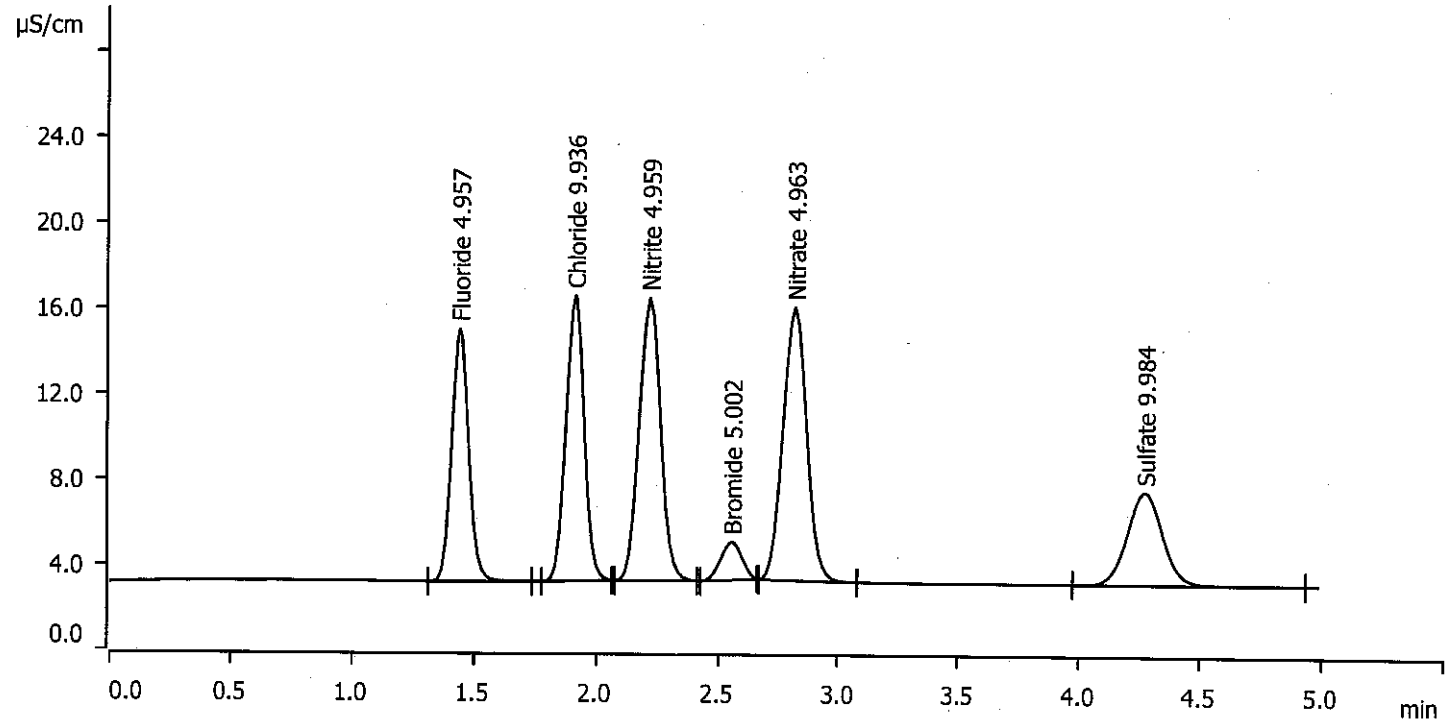
Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type	
1	1.44	0.755	4.045	Fluoride	BB	101.1 %
2	1.91	0.883	8.073	Chloride	BB	100.9 %
3	2.22	1.038	4.043	Nitrite	BB	101.1 %
4	2.56	0.141	4.004	Bromide	BB	100.1 %
5	2.82	1.123	4.041	Nitrate	BB	101 %
6	4.27	0.582	8.038	Sulfate	BB	100.5 %

KW
9/16/24

Sample data

Ident	STANDARD 8
Sample type	Standard 8
Determination start	2024-09-12 22:48:22 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92049
Sample Position	8
Comment 1	300.0/9056A
Comment 2	

Anions



Anions

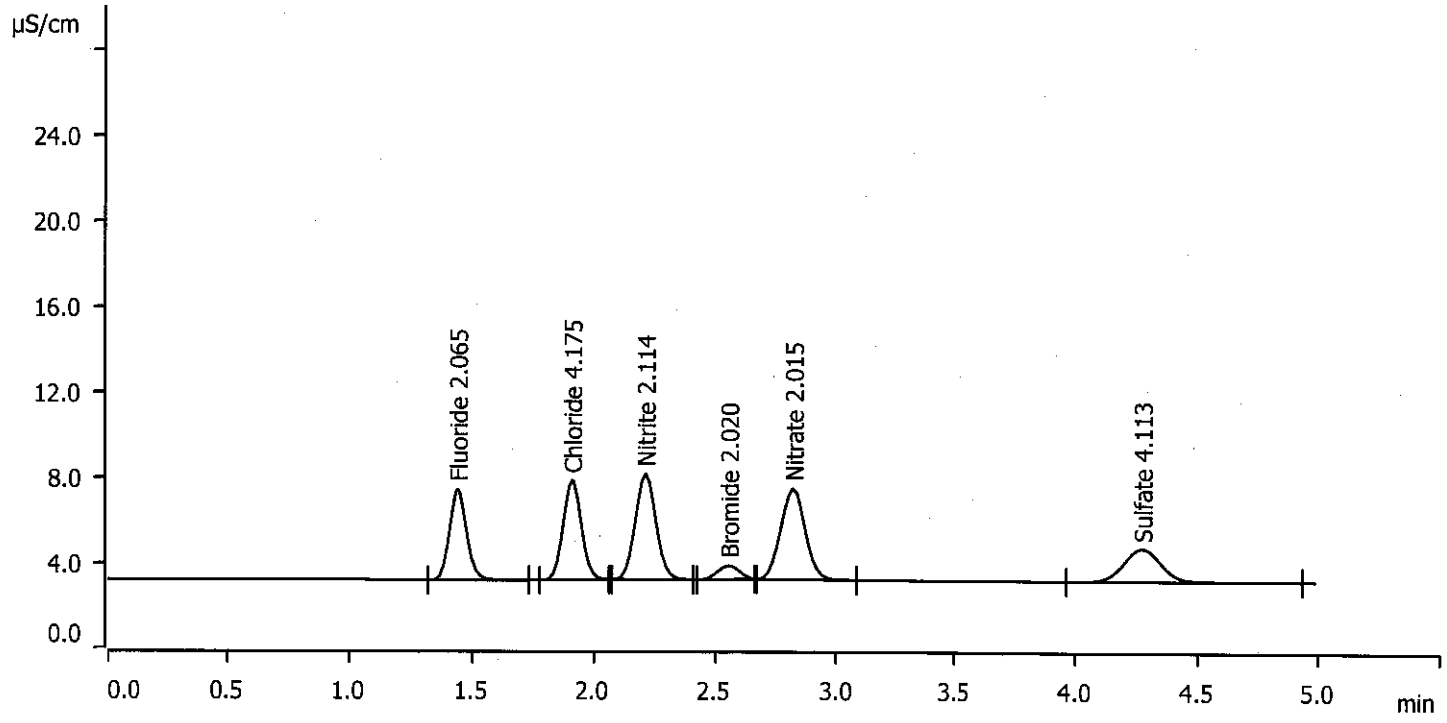
Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type	
1	1.44	0.967	4.957	Fluoride	BB	99.1%
2	1.91	1.144	9.936	Chloride	BB	99.4%
3	2.22	1.330	4.959	Nitrite	BB	99.2%
4	2.56	0.181	5.002	Bromide	BB	100.0%
5	2.82	1.455	4.963	Nitrate	BB	99.3%
6	4.27	0.750	9.984	Sulfate	BB	99.8%

KW
9/16/24

Sample data

Ident	ICV
Sample type	Check standard 1
Determination start	2024-09-12 23:09:53 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92050
Sample Position	9
Comment 1	300.0/9056A
Comment 2	

Anions



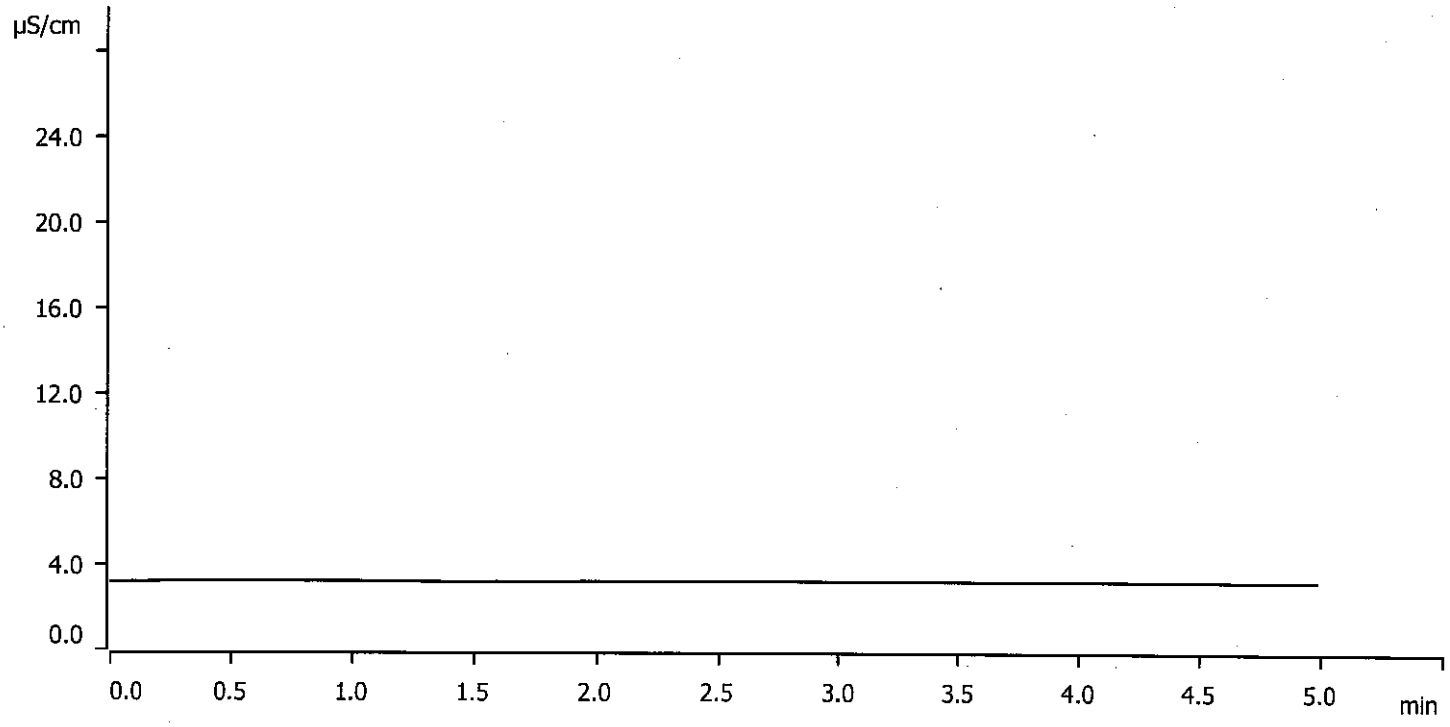
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.347	2.065	Fluoride	BB
2	1.92	0.405	4.175	Chloride	BB
3	2.22	0.490	2.114	Nitrite	BB
4	2.56	0.067	2.020	Bromide	BB
5	2.82	0.491	2.015	Nitrate	BB
6	4.27	0.276	4.113	Sulfate	BB

Sample data

Ident	ICB
Sample type	Sample
Determination start	2024-09-12 23:16:09 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92051
Sample Position	10
Comment 1	300.0/9056A
Comment 2	

Anions



CALIBRATION REPORT

Method 10-091224FAST

Anions

Data source . . . . . Conductivity detector 1 (930 Compact IC Flex 1)
Channel . . . . . Conductivity
Recording time 5.0min
Flow 2.000mL/min

Integration

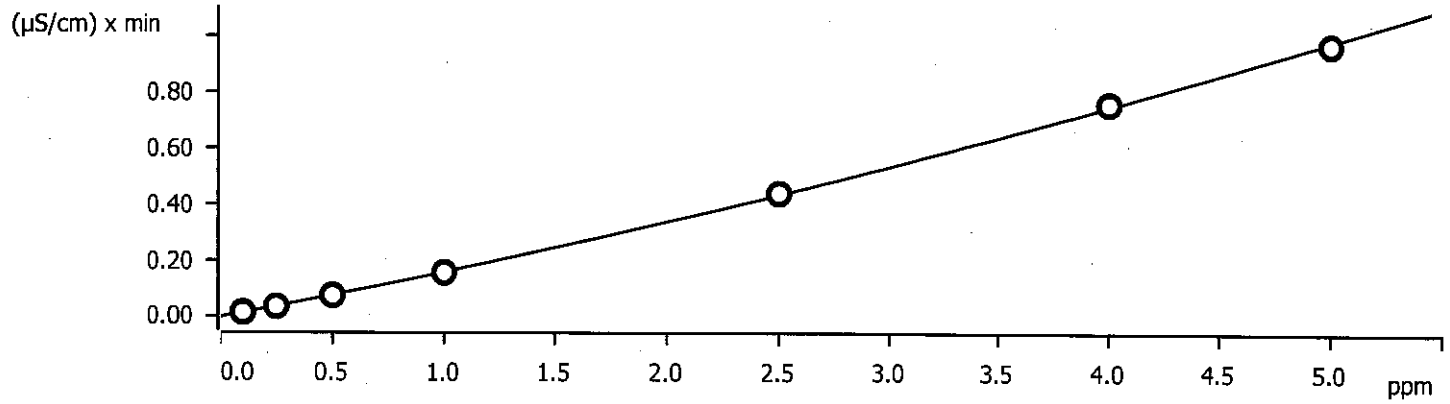
Anions

Sensitivity	40	
Smoothing	30	
Minimum height	0.01	µS/cm
Minimum area	0.001	(µS/cm) x min
Integration start	1.2	min
Polarity	+	
Negative peaks	off	
Drift compensation	off	
Ignore overflow	off	
Subtract blank	off	
Savitzky-Golay	off	
Activate events	off	

Events

Start [min]	End [min]	Event	Parameter
1.25	4.6	Valley-Valley	

Fluoride (Anions)



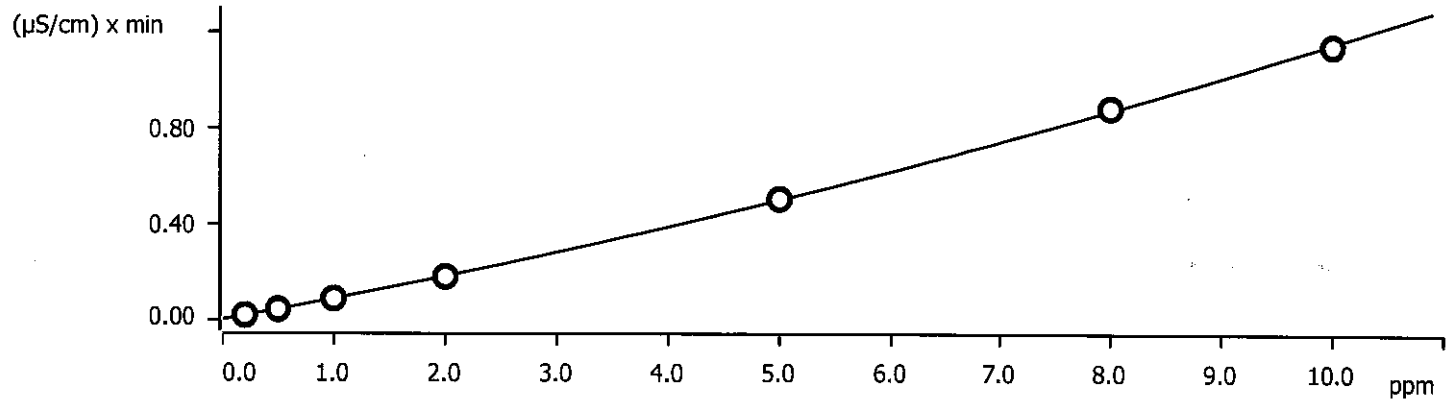
Function: . . . . . *A = - 3.11057E-3 + 7.55731E-3× Q + 2.24279E-5× Q²*

Relative standard deviation . . . . . *2.276067 %*

Correlation coefficient *0.999858*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2024-09-12 22:04:27 UTC-4	used
Standard 2	1	0.100	20.0	1.0	1.0	0.012916	STANDARD 2	2024-09-12 22:10:43 UTC-4	used
Standard 3	1	0.250	20.0	1.0	1.0	0.033805	STANDARD 3	2024-09-12 22:17:00 UTC-4	used
Standard 4	1	0.500	20.0	1.0	1.0	0.073306	STANDARD 4	2024-09-12 22:23:18 UTC-4	used
Standard 5	1	1.000	20.0	1.0	1.0	0.154328	STANDARD 5	2024-09-12 22:29:34 UTC-4	used
Standard 6	1	2.500	20.0	1.0	1.0	0.436274	STANDARD 6	2024-09-12 22:35:50 UTC-4	used
Standard 7	1	4.000	20.0	1.0	1.0	0.755094	STANDARD 7	2024-09-12 22:42:06 UTC-4	used
Standard 8	1	5.000	20.0	1.0	1.0	0.966555	STANDARD 8	2024-09-12 22:48:22 UTC-4	used

Chloride (Anions)



Function: . . . . . *A = - 1.88478E-3 + 4.23560E-3× Q + 7.69280E-6× Q²*

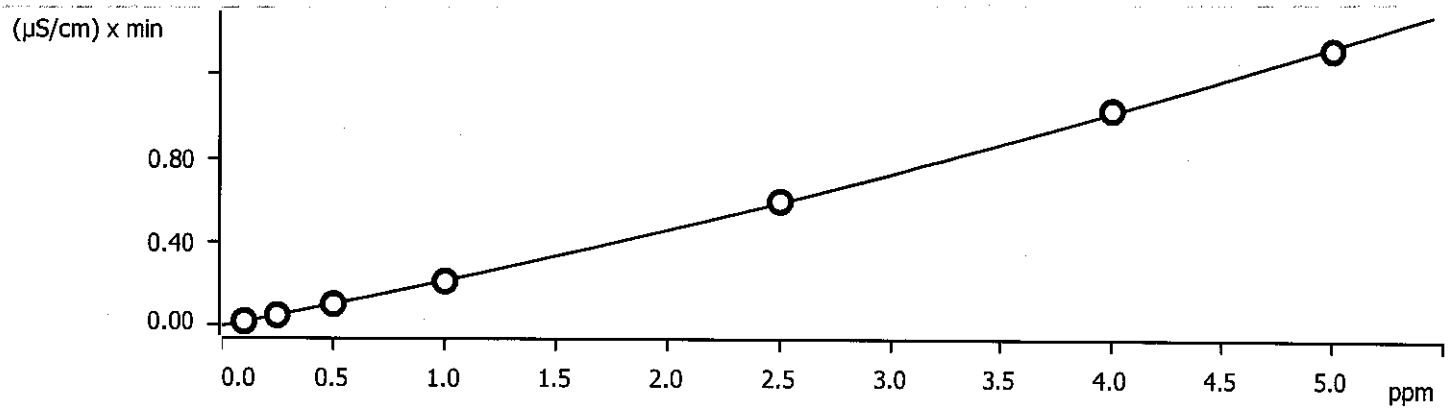
Relative standard deviation . . . . . *1.774609 %*

Correlation coefficient *0.999915*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2024-09-12 22:04:27 UTC-4	used
Standard 2	1	0.200	20.0	1.0	1.0	0.015804	STANDARD 2	2024-09-12 22:10:43 UTC-4	used
Standard 3	1	0.500	20.0	1.0	1.0	0.040167	STANDARD 3	2024-09-12 22:17:00 UTC-4	used
Standard 4	1	1.000	20.0	1.0	1.0	0.085264	STANDARD 4	2024-09-12 22:23:18 UTC-4	used
Standard 5	1	2.000	20.0	1.0	1.0	0.177073	STANDARD 5	2024-09-12 22:29:34 UTC-4	used
Standard 6	1	5.000	20.0	1.0	1.0	0.502440	STANDARD 6	2024-09-12 22:35:50 UTC-4	used

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 7	1	8.000	20.0	1.0	1.0	0.882509	STANDARD 7	2024-09-12 22:42:06 UTC-4	used
Standard 8	1	10.000	20.0	1.0	1.0	1.143530	STANDARD 8	2024-09-12 22:48:22 UTC-4	used

Nitrite (Anions)



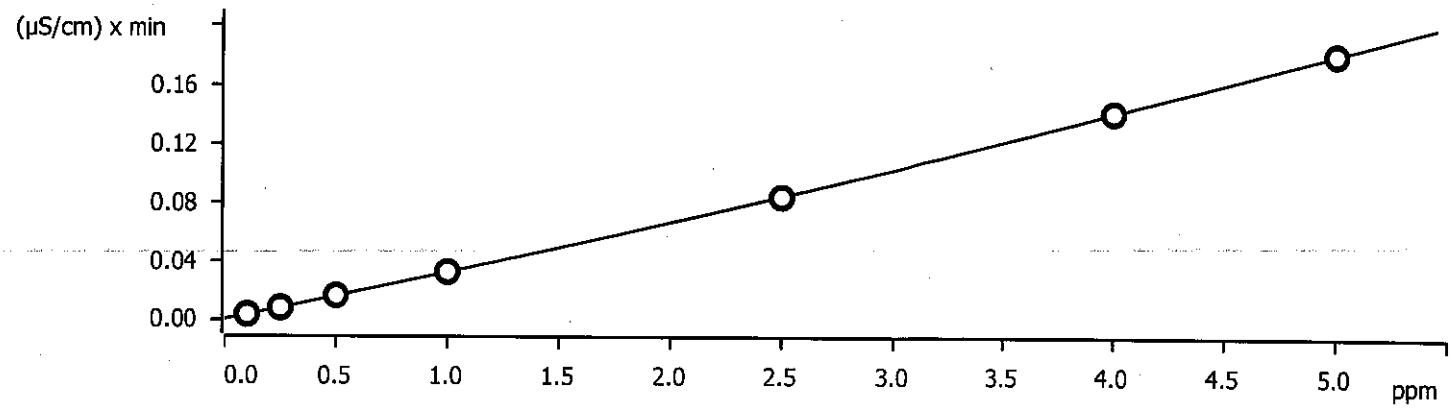
Function: . . . . . *A = - 3.45130E-3 + 0.0103467× Q + 3.12660E-5× Q²*

Relative standard deviation . . . . . *2.166310 %*

Correlation coefficient *0.999871*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2024-09-12 22:04:27 UTC-4	used
Standard 2	1	0.100	20.0	1.0	1.0	0.018380	STANDARD 2	2024-09-12 22:10:43 UTC-4	used
Standard 3	1	0.250	20.0	1.0	1.0	0.047381	STANDARD 3	2024-09-12 22:17:00 UTC-4	used
Standard 4	1	0.500	20.0	1.0	1.0	0.101554	STANDARD 4	2024-09-12 22:23:18 UTC-4	used
Standard 5	1	1.000	20.0	1.0	1.0	0.212147	STANDARD 5	2024-09-12 22:29:34 UTC-4	used
Standard 6	1	2.500	20.0	1.0	1.0	0.598878	STANDARD 6	2024-09-12 22:35:50 UTC-4	used
Standard 7	1	4.000	20.0	1.0	1.0	1.037765	STANDARD 7	2024-09-12 22:42:06 UTC-4	used
Standard 8	1	5.000	20.0	1.0	1.0	1.330378	STANDARD 8	2024-09-12 22:48:22 UTC-4	used

Bromide (Anions)



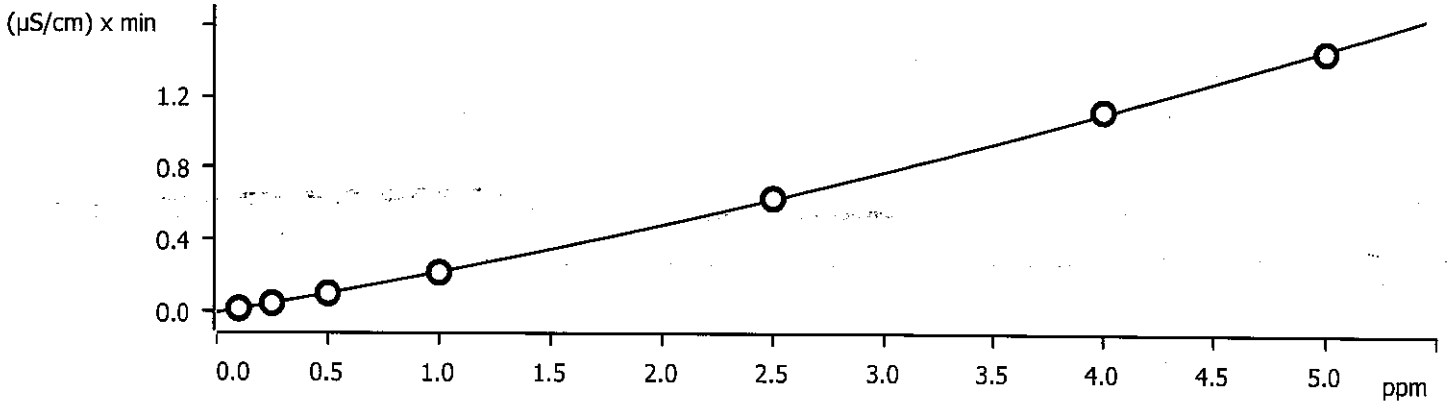
Function: . . . . . $A = -6.90109E\text{-}5 + 1.55983E\text{-}3 \times Q + 2.51034E\text{-}6 \times Q^2$

Relative standard deviation . . . . . *0.439064 %*

Correlation coefficient *0.999994*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2024-09-12 22:04:27 UTC-4	used
Standard 2	1	0.100	20.0	1.0	1.0	0.003055	STANDARD 2	2024-09-12 22:10:43 UTC-4	used
Standard 3	1	0.250	20.0	1.0	1.0	0.007695	STANDARD 3	2024-09-12 22:17:00 UTC-4	used
Standard 4	1	0.500	20.0	1.0	1.0	0.016028	STANDARD 4	2024-09-12 22:23:18 UTC-4	used
Standard 5	1	1.000	20.0	1.0	1.0	0.032231	STANDARD 5	2024-09-12 22:29:34 UTC-4	used
Standard 6	1	2.500	20.0	1.0	1.0	0.083721	STANDARD 6	2024-09-12 22:35:50 UTC-4	used
Standard 7	1	4.000	20.0	1.0	1.0	0.140939	STANDARD 7	2024-09-12 22:42:06 UTC-4	used
Standard 8	1	5.000	20.0	1.0	1.0	0.181104	STANDARD 8	2024-09-12 22:48:22 UTC-4	used

Nitrate (Anions)



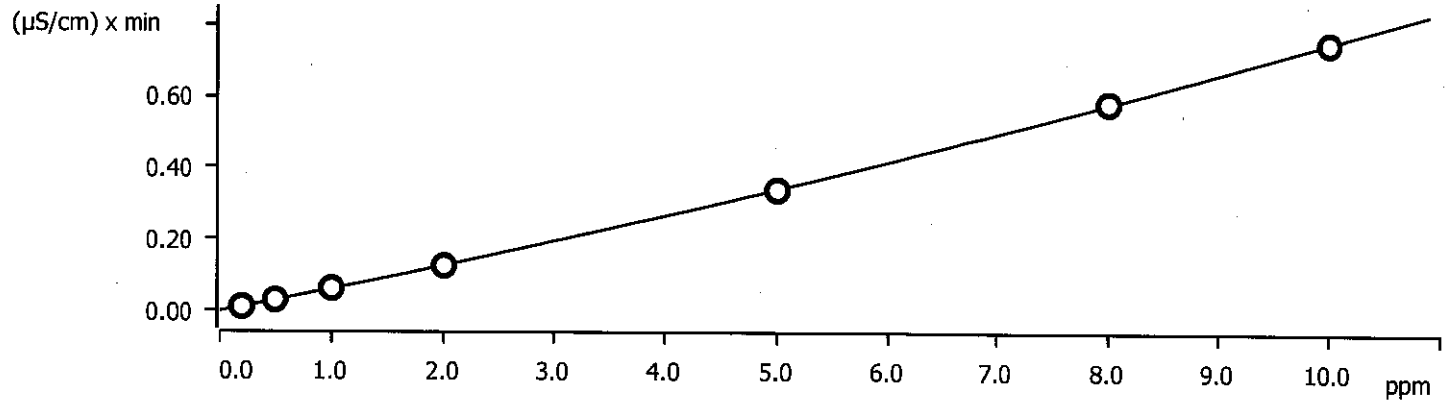
Function: . . . . . *A = - 4.00486E-3 + 0.0106287× Q + 4.10277E-5× Q²*

Relative standard deviation . . . . . *2.041068 %*

Correlation coefficient *0.999889*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2024-09-12 22:04:27 UTC-4	used
Standard 2	1	0.100	20.0	1.0	1.0	0.018425	STANDARD 2	2024-09-12 22:10:43 UTC-4	used
Standard 3	1	0.250	20.0	1.0	1.0	0.048299	STANDARD 3	2024-09-12 22:17:00 UTC-4	used
Standard 4	1	0.500	20.0	1.0	1.0	0.104930	STANDARD 4	2024-09-12 22:23:18 UTC-4	used
Standard 5	1	1.000	20.0	1.0	1.0	0.221766	STANDARD 5	2024-09-12 22:29:34 UTC-4	used
Standard 6	1	2.500	20.0	1.0	1.0	0.635919	STANDARD 6	2024-09-12 22:35:50 UTC-4	used
Standard 7	1	4.000	20.0	1.0	1.0	1.122927	STANDARD 7	2024-09-12 22:42:06 UTC-4	used
Standard 8	1	5.000	20.0	1.0	1.0	1.455252	STANDARD 8	2024-09-12 22:48:22 UTC-4	used

Sulfate (Anions)



Function: . . . . . *A = - 1.65387E-5 + 3.07164E-3× Q + 3.42738E-6× Q²*

Relative standard deviation . . . . . *0.784370 %*

Correlation coefficient *0.999982*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2024-09-12 22:04:27 UTC-4	used
Standard 2	1	0.200	20.0	1.0	1.0	0.012135	STANDARD 2	2024-09-12 22:10:43 UTC-4	used
Standard 3	1	0.500	20.0	1.0	1.0	0.031209	STANDARD 3	2024-09-12 22:17:00 UTC-4	used
Standard 4	1	1.000	20.0	1.0	1.0	0.064064	STANDARD 4	2024-09-12 22:23:18 UTC-4	used
Standard 5	1	2.000	20.0	1.0	1.0	0.127398	STANDARD 5	2024-09-12 22:29:34 UTC-4	used
Standard 6	1	5.000	20.0	1.0	1.0	0.339484	STANDARD 6	2024-09-12 22:35:50 UTC-4	used

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 7	1	8.000	20.0	1.0	1.0	0.582323	STANDARD 7	2024-09-12 22:42:06 UTC-4	used
Standard 8	1	10.000	20.0	1.0	1.0	0.749957	STANDARD 8	2024-09-12 22:48:22 UTC-4	used

Quadratic Check

ALS Environmental

2024-09-16 12:01:11

CALIBRATION REPORT

Method 10-091224FAST

Anions

Data source . . . . . Conductivity detector 1 (930 Compact IC Flex 1)
Channel . . . . . Conductivity
Recording time 5.0min
Flow 2.000mL/min

Integration

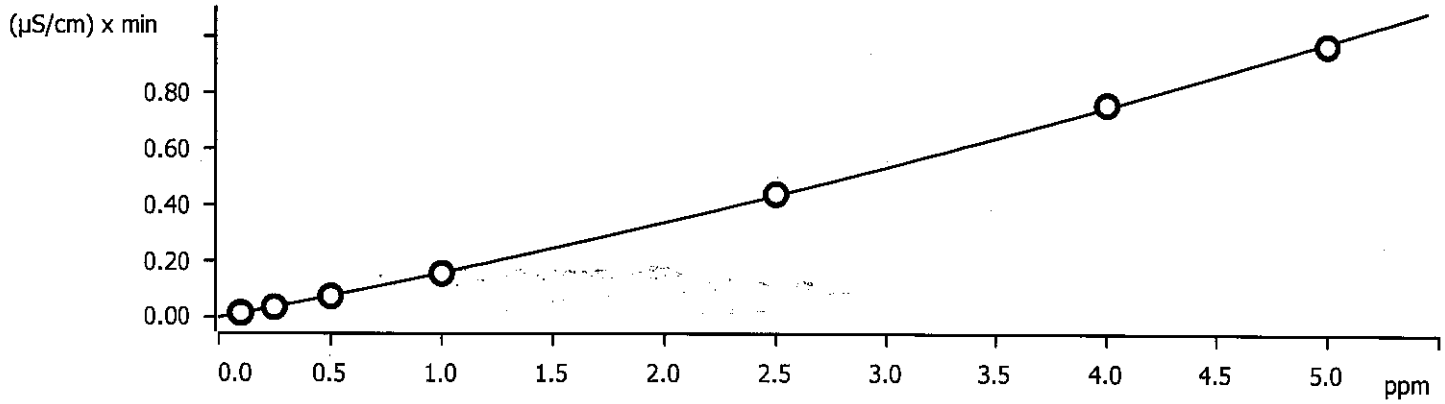
Anions

Sensitivity	40	
Smoothing	30	
Minimum height	0.01	µS/cm
Minimum area	0.001	(µS/cm) x min
Integration start	1.2	min
Polarity	+	
Negative peaks	off	
Drift compensation	off	
Ignore overflow	off	
Subtract blank	off	
Savitzky-Golay	off	
Activate events	off	

Events

Start [min]	End [min]	Event	Parameter
1.25	4.6	Valley-Valley	

Fluoride (Anions)



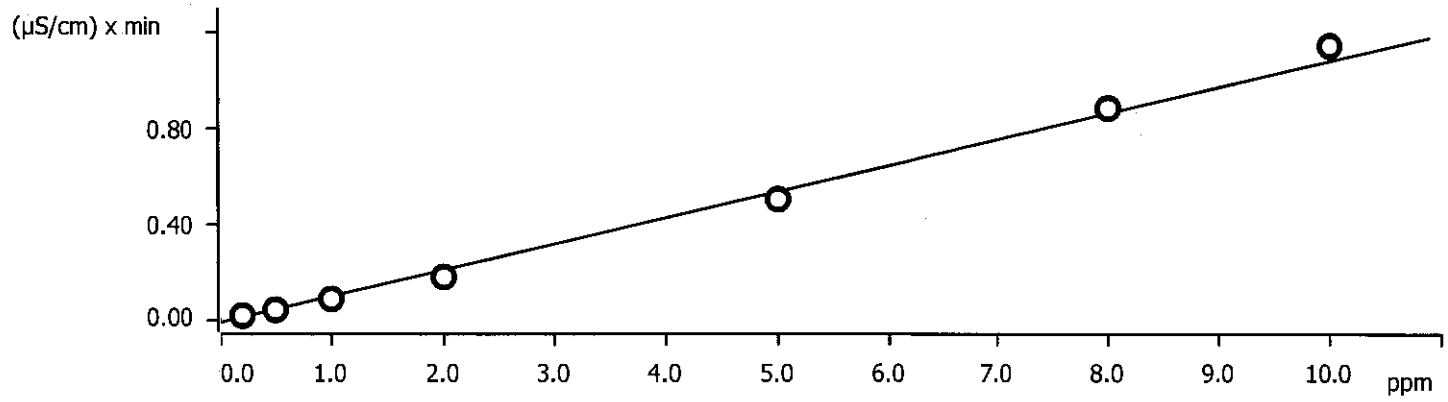
Function: . . . . . *A = - 0.0101583 + 9.34011E-3× Q*

Relative standard deviation . . . . . *7.276063 %*

Correlation coefficient *0.998183*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2024-09-12 22:04:27 UTC-4	used
Standard 2	1	0.100	20.0	1.0	1.0	0.012916	STANDARD 2	2024-09-12 22:10:43 UTC-4	used
Standard 3	1	0.250	20.0	1.0	1.0	0.033805	STANDARD 3	2024-09-12 22:17:00 UTC-4	used
Standard 4	1	0.500	20.0	1.0	1.0	0.073306	STANDARD 4	2024-09-12 22:23:18 UTC-4	used
Standard 5	1	1.000	20.0	1.0	1.0	0.154328	STANDARD 5	2024-09-12 22:29:34 UTC-4	used
Standard 6	1	2.500	20.0	1.0	1.0	0.436274	STANDARD 6	2024-09-12 22:35:50 UTC-4	used
Standard 7	1	4.000	20.0	1.0	1.0	0.755094	STANDARD 7	2024-09-12 22:42:06 UTC-4	used
Standard 8	1	5.000	20.0	1.0	1.0	0.966555	STANDARD 8	2024-09-12 22:48:22 UTC-4	used

Chloride (Anions)



Function: . . . . . *A = - 0.0116988 + 5.45647E-3× Q*

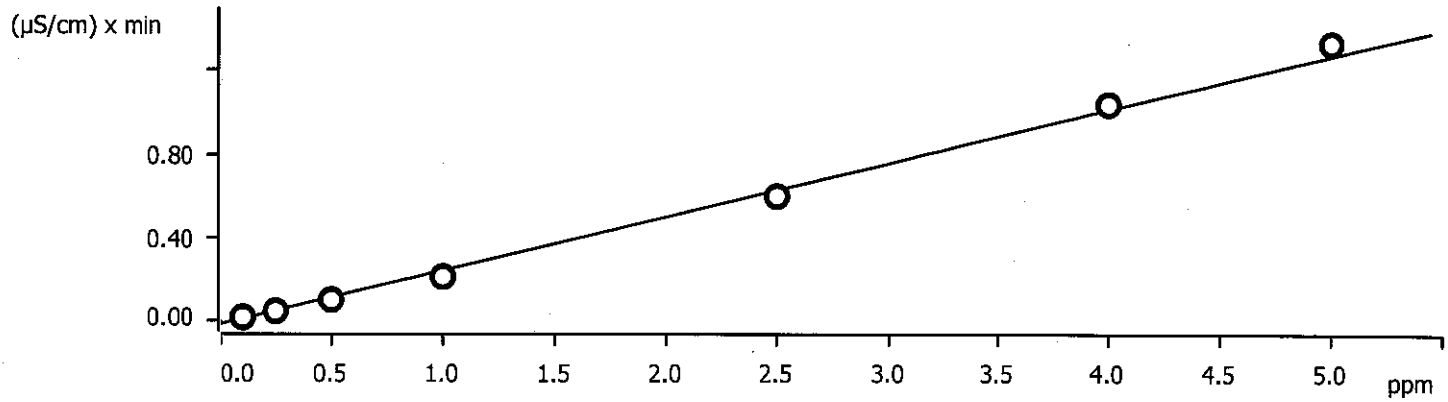
Relative standard deviation . . . . . *8.924022 %*

Correlation coefficient *0.997301*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2024-09-12 22:04:27 UTC-4	used
Standard 2	1	0.200	20.0	1.0	1.0	0.015804	STANDARD 2	2024-09-12 22:10:43 UTC-4	used
Standard 3	1	0.500	20.0	1.0	1.0	0.040167	STANDARD 3	2024-09-12 22:17:00 UTC-4	used
Standard 4	1	1.000	20.0	1.0	1.0	0.085264	STANDARD 4	2024-09-12 22:23:18 UTC-4	used
Standard 5	1	2.000	20.0	1.0	1.0	0.177073	STANDARD 5	2024-09-12 22:29:34 UTC-4	used
Standard 6	1	5.000	20.0	1.0	1.0	0.502440	STANDARD 6	2024-09-12 22:35:50 UTC-4	used

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 7	1	8.000	20.0	1.0	1.0	0.882509	STANDARD 7	2024-09-12 22:42:06 UTC-4	used
Standard 8	1	10.000	20.0	1.0	1.0	1.143530	STANDARD 8	2024-09-12 22:48:22 UTC-4	used

Nitrite (Anions)



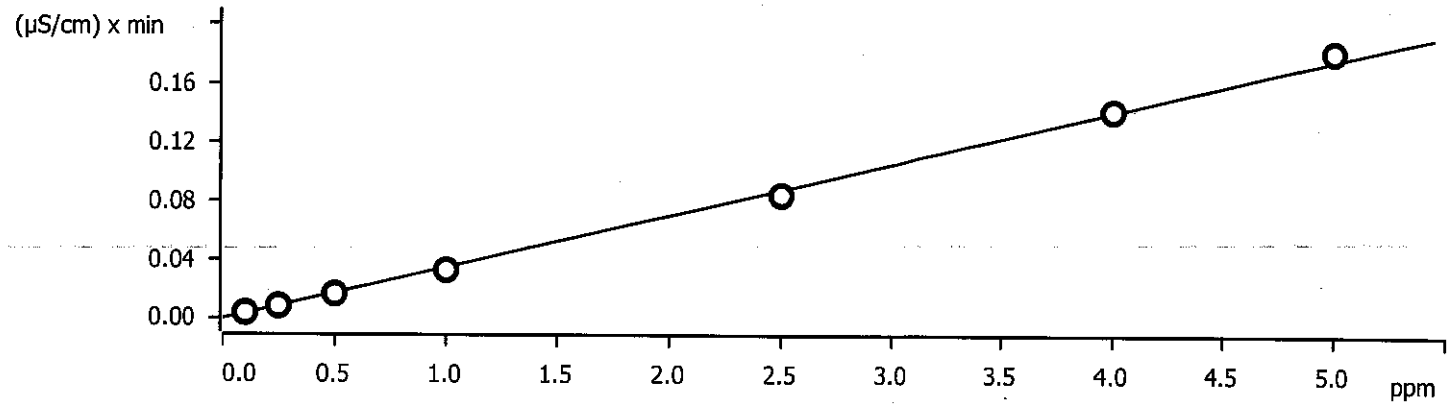
Function: . . . . . *A = - 0.0133776 + 0.0128343× Q*

Relative standard deviation . . . . . *7.426138 %*

Correlation coefficient *0.998104*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2024-09-12 22:04:27 UTC-4	used
Standard 2	1	0.100	20.0	1.0	1.0	0.018380	STANDARD 2	2024-09-12 22:10:43 UTC-4	used
Standard 3	1	0.250	20.0	1.0	1.0	0.047381	STANDARD 3	2024-09-12 22:17:00 UTC-4	used
Standard 4	1	0.500	20.0	1.0	1.0	0.101554	STANDARD 4	2024-09-12 22:23:18 UTC-4	used
Standard 5	1	1.000	20.0	1.0	1.0	0.212147	STANDARD 5	2024-09-12 22:29:34 UTC-4	used
Standard 6	1	2.500	20.0	1.0	1.0	0.598878	STANDARD 6	2024-09-12 22:35:50 UTC-4	used
Standard 7	1	4.000	20.0	1.0	1.0	1.037765	STANDARD 7	2024-09-12 22:42:06 UTC-4	used
Standard 8	1	5.000	20.0	1.0	1.0	1.330378	STANDARD 8	2024-09-12 22:48:22 UTC-4	used

Bromide (Anions)



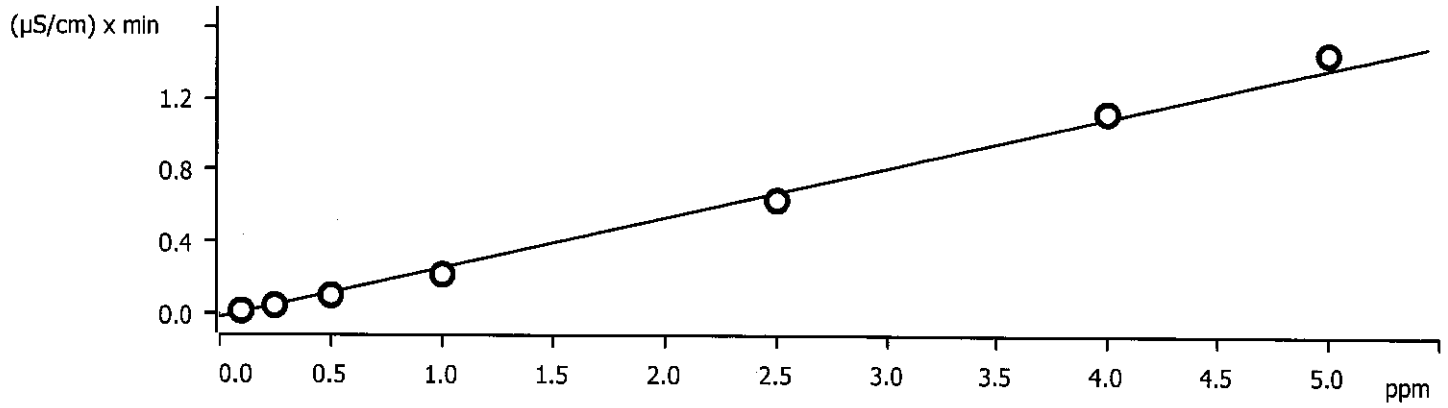
Function: . . . . . *A = - 8.98623E-4 + 1.76215E-3× Q*

Relative standard deviation . . . . . *4.837614 %*

Correlation coefficient *0.999145*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	✓ STANDARD 1	2024-09-12 22:04:27 UTC-4	used
Standard 2	1	0.100	20.0	1.0	1.0	0.003055	✓STANDARD 2	2024-09-12 22:10:43 UTC-4	used
Standard 3	1	0.250	20.0	1.0	1.0	0.007695	✓STANDARD 3	2024-09-12 22:17:00 UTC-4	used
Standard 4	1	0.500	20.0	1.0	1.0	0.016028	✓STANDARD 4	2024-09-12 22:23:18 UTC-4	used
Standard 5	1	1.000	20.0	1.0	1.0	0.032231	✓STANDARD 5	2024-09-12 22:29:34 UTC-4	used
Standard 6	1	2.500	20.0	1.0	1.0	0.083721	✓STANDARD 6	2024-09-12 22:35:50 UTC-4	used
Standard 7	1	4.000	20.0	1.0	1.0	0.140939	✓STANDARD 7	2024-09-12 22:42:06 UTC-4	used
Standard 8	1	5.000	20.0	1.0	1.0	0.181104	✓STANDARD 8	2024-09-12 22:48:22 UTC-4	used

Nitrate (Anions)



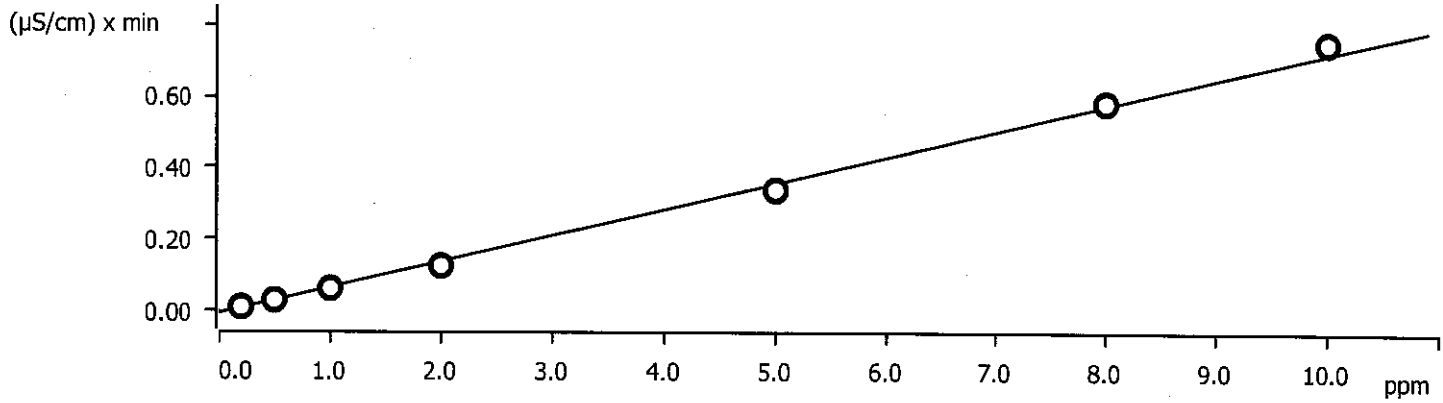
Function: . . . . . *A = - 0.0167813 + 0.0138713× Q*

Relative standard deviation . . . . . *9.367782 %*

Correlation coefficient *0.997063*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	✓ STANDARD 1	2024-09-12 22:04:27 UTC-4	used
Standard 2	1	0.100	20.0	1.0	1.0	0.018425	✓ STANDARD 2	2024-09-12 22:10:43 UTC-4	used
Standard 3	1	0.250	20.0	1.0	1.0	0.048299	✓ STANDARD 3	2024-09-12 22:17:00 UTC-4	used
Standard 4	1	0.500	20.0	1.0	1.0	0.104930	✓ STANDARD 4	2024-09-12 22:23:18 UTC-4	used
Standard 5	1	1.000	20.0	1.0	1.0	0.221766	✓ STANDARD 5	2024-09-12 22:29:34 UTC-4	used
Standard 6	1	2.500	20.0	1.0	1.0	0.635919	✓ STANDARD 6	2024-09-12 22:35:50 UTC-4	used
Standard 7	1	4.000	20.0	1.0	1.0	1.122927	✓ STANDARD 7	2024-09-12 22:42:06 UTC-4	used
Standard 8	1	5.000	20.0	1.0	1.0	1.455252	✓ STANDARD 8	2024-09-12 22:48:22 UTC-4	used

Sulfate (Anions)



Function: . . . . . *A = - 4.51492E-3 + 3.62164E-3× Q*

Relative standard deviation . . . . . *6.317979 %*

Correlation coefficient *0.998572*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	✓ STANDARD 1	2024-09-12 22:04:27 UTC-4	used
Standard 2	1	0.200	20.0	1.0	1.0	0.012135	✓ STANDARD 2	2024-09-12 22:10:43 UTC-4	used
Standard 3	1	0.500	20.0	1.0	1.0	0.031209	✓ STANDARD 3	2024-09-12 22:17:00 UTC-4	used
Standard 4	1	1.000	20.0	1.0	1.0	0.064064	✓ STANDARD 4	2024-09-12 22:23:18 UTC-4	used
Standard 5	1	2.000	20.0	1.0	1.0	0.127398	✓ STANDARD 5	2024-09-12 22:29:34 UTC-4	used
Standard 6	1	5.000	20.0	1.0	1.0	0.339484	✓ STANDARD 6	2024-09-12 22:35:50 UTC-4	used

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 7	1	8.000	20.0	1.0	1.0	0.582323	STANDARD 7	2024-09-12 22:42:06 UTC-4	used
Standard 8	1	10.000	20.0	1.0	1.0	0.749957	STANDARD 8	2024-09-12 22:48:22 UTC-4	used

ALS Environmental

1575 Jefferson Road, Building 300, Suite 360, Rochester, New York 14623

Ion Chromatography Cover Sheet

Instrument: **Metrohm IC 930 (IC#10)**

Column: **Dionex IonPac AS22-Fast (Installed 07/25/2024)**

Curve Date: **09/12/24** **Loop size: 25 uL Loop**

Analyst: KW **Analysis Date:** 9/12/24

Balance ID for Soil Preparation: NA

Is copy of LCS attached to run? (YES) / NO

Method Filename: 10-091224FAST

Standards Prep Dates & Log ID's:

Std Type	*Prep Date*	*Log ID*		*Std Type*	*Prep Date*	*Log ID*
Calibration Intermediate	08/09/2024	236789		Working Calibration Stds	09/12/2024	WC236014B
LCS / MS Intermediate	08/09/2024	236789		Working LCS/MS Standard	09/12/2024	WC236098I
ICV Intermediate	08/09/2024	236787		Working ICV Standard	09/12/2024	WC236040I
CCV Intermediate	08/09/2024	236787		Working CCV Standard	09/12/2024	WC236040I

Original Retention Times for this method are based on Standard 6 and are as follows:

Fluoride: 1.44	Bromide: 2.56
Chloride: 1.91	Nitrate: 2.82
Nitrite: 2.22	Sulfate: 4.27

Additional Comments: Column Serial Number: 240212573
Linear Range Verification (High Standard) Analyzed: 03/09/2024 – Due Every Six Months

Pipets: Chrome, Bottom
Disposable Pipet ID: (Fisher) 26023005

Eluent Stock (100x): 235121
Suppressor Stock (5x): 235047

CALIBRATION INTERMEDIATE STOCK PREP
(Used for Calibration and LCS and MS)

Analyte	Standard Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst	Date Prepped	Lot ID	Exp. Date
F	228501 exp 9/30/24	1000	10	200	50	KW	3/20/24	A	9/30/24 234182
Cl	231553 exp: 3/31/25	1000	20		100	KW	4/23/24	B	9/30/24 234759
NO2	234066 exp: 3/31/25	1000	10		50	KW	7/25/24	C	9/30/24 236469
Br	228428 exp: 9/30/24	1000	10		50	KW	8/9/24	D	9/30/24 236789
NO3	232424 exp 4/30/24	1000	10		50			E	
OPO4	———	1000	10		50			F	
SO4	231552 3/31/25	1000	20		100			G	

ICV / CCV INTERMEDIATE STOCK PREP

Analyte	ICV/CCV Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst	Date Prepped	Lot ID	Exp. Date
F	229086 (Exp 12/31/25)	1000	4.0	1000	4.00	KW	8/9/24	H	10/31/25 236787
Cl	234592 (Exp 10/31/25)	1000	8.0		8.00			I	
NO2	236575 (Exp 6/13/27)	1000	4.0		4.00			J	
Br	229090 (Exp 9/30/26)	1000	4.0		4.00			K	
NO3	229092 (Exp 3/31/27)	1000	4.0		4.00			L	
OPO4	———	1000	4.0		4.00			M	
SO4	234593 (Exp 10/31/25)	1000	8.0		8.00			N	

ICV / CCV PREP

(A 1:1 dilution of the Reference Intermediate Stock is done daily.)

Analyte	ICV / CCV Intermediate Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst / Date Prepped	Lot ID	Exp. Date	Matrix H_2SO_4 / NaOH / DI	H_2SO_4 / NaOH Lot #
F	236787	4.00	5.0	10.0	2.00	KW 9/3/24	A	9/4/24	DI	—
Cl		8.00			4.00	KW 9/4/24	B	9/5/24	DI	—
NO_2		4.00			2.00	KW 9/5/24	C	9/6/24	DI	—
Br		4.00			2.00	KW 9/6/24	D	9/7/24	DI	—
NO_3		4.00			2.00	KW 9/7/24	E	9/8/24	DI	—
OPO_4		4.00			2.00	KW 9/9/24	F	9/10/24	DI	—
SO_4		8.00			4.00	KW 9/10/24	G	9/11/24	DI	—
						KW 9/11/24	H	9/12/24	DI	—
						KW 9/12/24	I	9/13/24	DI	—
							J			
							K			
							L			
							M			
							N			
							O			
							P			
							Q			
							R			

LCS Prep

(Stocks delivered using volumetric glassware and brought to volume with DI. LCS expires after 7 days; if NO_2 is needed, LCS must be prepared daily.)

(MS prepared fresh daily using same volume of intermediate stock added to 100mLs sample. MS not prepared volumetrically.)

Analyte	Calibration Intermediate Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst / Date Prepped	Lot ID	Exp. Date	Matrix H_2SO_4 / NaOH / DI	H_2SO_4 / NaOH Lot #
F	236789	50	2.0	200	1.0	KW 9/3/24	A	9/10/24	DI	—
Cl		100			2.0	KW 9/4/24	B	9/11/24	DI	—
NO_2		50			1.0	KW 9/5/24	C	9/12/24	DI	—
Br		50			1.0	KW 9/6/24	D	9/13/24	DI	—
NO_3		50			1.0	KW 9/7/24	E	9/14/24	DI	—
OPO_4		50			1.0	KW 9/9/24	F	9/16/24	DI	—
SO_4		100			2.0	KW 9/10/24	G	9/17/24	DI	—
							H			
							I			
							J			
							K			
							L			
							M			
							N			
							O			
							P			
							Q			
							R			

CALIBRATION STANDARDS PREP

(Stocks delivered using volumetric glassware and brought to volume with DI Water. Expire after 7 days.)

Std #	mLs Intermediate Stock	Final Vol. mLs	Final Std. Conc. (mg/L)						
			F	Cl	NO_2	Br	NO_3	OPO_4	SO_4
8	10.0	100	5.0	10.0	5.0	5.0	5.0	5.0	10.0
7	8.0	100	4.0	8.0	4.0	4.0	4.0	4.0	8.0
6	5.0	100	2.5	5.0	2.5	2.5	2.5	2.5	5.0
5	2.0	100	1.0	2.0	1.0	1.0	1.0	1.0	2.0
4	1.0	100	0.5	1.0	0.5	0.5	0.5	0.5	1.0
3	0.5	100	0.25	0.50	0.25	0.25	0.25	0.25	0.50
2	0.2	100	0.10	0.20	0.10	0.10	0.10	0.10	0.20
1	0.0	100	0.0	0.00	0.0	0.0	0.0	0.0	0.00

Calibration Intermediate Stock ID	Analyst / Date Prepped	Lot ID	Exp. Date	Matrix H_2SO_4/NaOH/DI	H_2SO_4 / NaOH Lot #
236789	KMD 8/22/24	A	8/25/24	DI	—
236789	KL 9/12/24	B	9/17/24	DI	—
		C			
		D			
		E			
		F			
		G			
		H			
		I			
		J			
		K			
		L			
		M			
		N			
		O			
		P			
		Q			

September 24, 2024 Service Request No:R2408140

Michael Worden
Civil & Environmental Consultants, Incorporated (CEC)
2704 Cherokee Farm Way
Suite 101
Knoxville, TN 37920

Laboratory Results for: Olean OU3 12-Month Sampling

Dear Michael,

Enclosed are the results of the sample(s) submitted to our laboratory August 23, 2024
For your reference, these analyses have been assigned our service request number **R2408140.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

CC: Laura Campbell

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Narrative Documents

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Environmental

Client: Civil & Environmental Consultants, Incorporated (CEC)
Service Request: R2408140
Project: Olean OU3 12-Month Sampling
Date Received: 08/23/2024
Sample Matrix: Water

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.
Manual Integrations may have been used in the quantitation of the results in this report. Manual Integrations are readily identified in the raw data on the Quantitation Reports (Organics) by the automatic placement of an “m” next to the sample result. For Ion Chromatography, the manual integrations are identified by the automatic placement of “manipulated” or "manually integrated" in the upper left corner of the chromatogram (Hexavalent Chromium) or “M” by the result in the “Type” column (anions). The reason for the manual integration is noted on the “after” chromatogram, which is found with the original chromatogram and quantitation report. All integrations follow the lab SOP ADM-INT “Manual Integration.”

Sample Receipt:

Fourteen water samples were received for analysis at ALS Environmental on 08/23/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivoa GC:

No significant anomalies were noted with this analysis.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Volatiles by GC:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

No significant anomalies were noted with this analysis.

Approved by _____ Date 09/24/2024

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408140
Project: Olean OU3 12-Month Sampling/300-082

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R2408140-001	OLN-TB001-T009	8/20/2024	
R2408140-002	OLN-UA003-F009	8/20/2024	1337
R2408140-003	OLN-UA002-F009	8/20/2024	1525
R2408140-004	OLN-FB001-B009	8/20/2024	1625
R2408140-005	OLN-CW13A-F009	8/21/2024	0833
R2408140-006	OLV-CW013-F009	8/21/2024	0941
R2408140-007	OLN-EB001-E009	8/21/2024	1015
R2408140-008	OLN-FB002-B009	8/21/2024	1035
R2408140-009	OLN-18M-F009	8/21/2024	1104
R2408140-010	OLN-RU028-F009	8/21/2024	1306
R2408140-011	OLN-RU020-F009	8/21/2024	1547
R2408140-012	OLN-RU021-F009	8/22/2024	0831
R2408140-013	OLN-FD002-D009	8/22/2024	2200
R2408140-014	OLN-TB003-T009	8/22/2024	

Civil & Environmental Consultants, Inc.

Chain of Custody Record:

Project Name:	Olean OU3 12-Month Sampling		
Project Number:	300-082	Project Location:	Olean, NY
Project Manager:	Laura Campbell		
Field Personnel:	BDT, LJR		
Contact Information:	LCampbell@CECinc.com		
CEC Office:	PGH	Number of Coolers in Shipment:	4

Data Delivery:
___ CD (EDD and Report) ___ Paper Report
_X_ Email (EDD and Report) ___ Preliminary Results (ASAP)
Email Address: See Above

Turn-Around Time:
_X_ Standard ___ 7 day ___ 72 hr ___ 48 hr ___ 24 hr

Requested Sample Analyses

Page 1 of 2

Matrix Key: A - Air; W - Water; S - Soil; D - Sediment; P - Wipe; O - Other

Preservative Key: 1 - HCl; 2 - HNO_3; 3 - H_2SO_4; 4 - NaOH; 5 - Na_2S2O_3; 6 - $NaHSO_4$; 7 - Other; 8 - 4°C; 9 - 5035

Date	Time	Sample ID	Matrix	Preservative	Number of Containers	8260C - VOCs	RSk175 - Dissolved Gases	410.4 - COD	300.0 - Sulfate	VFAs - Volatile Fatty Acids	6010 - Dissolved Metals: As, Fe, Mn	Special Instructions/ Sample Conditions/ Comments
8/20/24	—	OLN-TB001-T009	W	1	2	X						All dissolved metals
	1357	OLN-UA003-F009	W	7	15	X	X	X	X	X	X	were field filtered
	1525	OLN-UA002-F009	W	7	15	X	X	X	X	X	X	
	1625	OLN-FB001-B009	W	7	15	X	X	X	X	X	X	
8/21/24	0833	OLN-CW13B-F009	W	7	5	X		X			X	Hold Running Sample *
	0941	OLN-CW013-F009	W	7	5	X		X			X	
	1015	OLN-EB001-E009	W	7	15	X	X	X	X	X	X	
	1035	OLN-FB002-B009	W	7	15	X	X	X	X	X	X	
	1104	OLN-18M-F009	W	7	5	X		X			X	
	1306	OLN-RW628-F009	W	7	15	X	X	X	X	X	X	

Relinquished By:	Date: 8/22/24	Time: 1500	Received By:	Date: / Time:
Relinquished By:	Date:	Time:	Received By:	Date: 8/23/24 Time: 0930

Custody Seals Intact? ___ Yes ___ No	Jars Intact? ___ Yes ___ No	General Comments/Remarks:	
Cooler Temperature Upon Receipt? ___ °C	Ice Present? ___ Yes ___ No	*Do not run sample until confirmation from Laura Campbell	

Corporate Office: Pittsburgh, 700 Cherrington Parkway, Moon Township, PA 15108, (800) 365-2324, www.cecinc.com

Albany (888)243-6439, Athens (877)389-1852, Austin (855)365-2324, Boston (866)312-2024, Bridgeport (855)488-9539, Charlotte (855)859-9932

Chicago (877)963-6026, Cincinnati (800)759-5614, Cleveland (800)365-2324, Columbus (888)598-6808, Greenville (855)574-4331

Houston (800)365-2324, Indianapolis (877)746-0749, Knoxville (865)977-9997, Monroeville (800)899-3610, Nashville (800)763-2326

Philadelphia (888)267-7891, Phoenix (877)231-2324, Sevierville (865)774-7771, St. Louis (866)250-3670, Toledo (855)274

R2408140 5

Civil & Environmental Consultants, Incorporated (
Olean OU3 12-Month Sampling

Civil & Environmental Consultants, Inc.

Chain of Custody Record:

Project Name:	Olean OU3 12-Month Sampling		
Project Number:	300-082	Project Location:	Olean, NY
Project Manager:	Laura Campbell		
Field Personnel:	BDT, LJR		
Contact Information:	LCampbell@CECinc.com		
CEC Office:	PGH	Number of Coolers in Shipment:	4

Data Delivery:
___ CD (EDD and Report) ___ Paper Report
X Email (EDD and Report) ___ Preliminary Results (ASAP)
Email Address: See Above

Turn-Around Time:
X Standard ___ 7 day ___ 72 hr ___ 48 hr ___ 24 hr

Requested Sample Analyses

Page 2 of 2

Matrix Key: A - Air; W - Water; S - Soil; D - Sediment; P - Wipe; O - Other

Preservative Key: 1 - HCl; 2 - HNO_3; 3 - H_2SO_4; 4 - NaOH; 5 - Na_2S2O_3; 6 - $NaHSO_4$; 7 - Other; 8 - 4°C; 9 - 5035

Date	Time	Sample ID	Matrix	Preservative	Number of Containers	8260C - VOCs	RSK175 - Dissolved Gases	410.4 - COD	300.0 - Sulfate	VFAs - Volatile Fatty Acids	6010 - Dissolved Metals: As, Fe, Mn	Special Instructions/ Sample Conditions/ Comments
8/21/24	1547	OLN-RU020-F009	W	7	15	X	X	X	X	X	X	
8/22/24	0831	OLN-RU021-F009	W	7	15	X	X	X	X	X	X	
8/22/24	1200	OLN-FD002-D009	W	7	15	X	X	X	X	X	X	
8/22/24	—	OLN-TB003-T009	W	1	2	X						

Relinquished By:		Date: 8/22/24	Time: 1500	Received By:	Date: / Time:
Relinquished By:		Date:	Time:	Received By:	Date: 8/23/24 Time: 0930

Custody Seals Intact? ___ Yes ___ No	Jars Intact? ___ Yes ___ No	General Comments/Remarks:	
Cooler Temperature Upon Receipt? ___ °C	Ice Present? ___ Yes ___ No		

Corporate Office: Pittsburgh, 700 Cherrington Parkway, Moon Township, PA 15108, (800) 365-2324, www.cecinc.com

Albany (888)243-6439 · Athens (877)389-1852 · Austin (855)365-2324 · Boston (866)312-2024 · Bridgeport (855)488-9539 · Charlotte (855)859-9932 · Chicago (877)963-6026 · Cincinnati (800)759-5614 · Cleveland (800)365-2324 · Columbus (888)598-6808 · Greenville (855)574-4331 · Houston (800)365-2324 · Indianapolis (877)746-0749 · Knoxville (865)977-9997 · Monroeville (800)899-3610 · Nashville (800)763-2326 · Philadelphia (888)267-7891 · Phoenix (877)231-2324 · Sevierville (865)774-7771 · St. Louis (866) · Toledo (85

R2408140 5
Civil & Environmental Consultants, Incorporated (
Olean OU3 12-Month Sampling

R2408140 5
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Olean OU3 12-Month Sampling

Cooler Receipt and Preservation Check Form

Project/Client Civil Folder Number

Cooler received on 8/23/24 by: Bulk

COURIER: ALS UPS (FEDEX) VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	(Y)	N
2	**Custody papers** properly completed (ink, signed)?	(Y)	N
3	Did all bottles arrive in good **condition** (unbroken)?	(Y)	N
4	Circle: ~~Wet Ice~~ **Dry Ice Gel packs** present?	(Y)	N

5a	Did **VOA** vials have sig* **bubbles?**			Y	(N) NA
5b	Sig* bubbles: **Alk?**	Y N (NA)	**Sulfide?**	Y	N (NA)
6	Where did the bottles originate?	(ALS/ROC) CLIENT			
7	Soil VOA received as:	Bulk Encore 5035set		(NA)	

8. Temperature Readings Date: 8/23 Time: 0450 ID: (IR#12) IR#11 From: (Temp Blank) Sample Bottle

Temp (°C)	2.6	5.6	0.9	0.3			
Within 0-6°C?	(Y) N	(Y) N	(Y) N	(Y) N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: Cooler by Bulk on 8/23 at 1015

5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 8/26/24 Time: 1056 by: SES

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
10. Did all bottle labels and tags agree with custody papers? (YES) NO
11. Were correct containers used for the tests indicated? (YES) NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO (N/A)
13. Were dissolved metals filtered in the field? (YES) NO N/A
14. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2	22523	HNO_3	✓		24005587	9/25				
≤2	✓	H_2SO_4	✓		24007671	11/26				
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-						
		HCl	**	**	24009230	1/27				

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 070824-2AES, 052724-4EKE, 070824-2ADD, 050624-3AXH

Explain all Discrepancies/ Other Comments:

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: SES

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations[1]

NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory. To verify NH accredited analytes, go to https://www4.des.state.nh.us/CertifiedLabs/Certified-Method.aspx.

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408140
Project: Olean OU3 12-Month Sampling/300-082

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
Organic Acids	Water	Acetic Acid
Organic Acids	Water	Butanoic Acid (Butyric Acid)
Organic Acids	Water	Propionic Acid

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408140
Project: Olean OU3 12-Month Sampling/300-082

Sample Name: OLN-TB001-T009 **Date Collected:** 08/20/24
Lab Code: R2408140-001 **Date Received:** 08/23/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260D		FNAEGLER

Sample Name: OLN-UA003-F009 **Date Collected:** 08/20/24
Lab Code: R2408140-002 **Date Received:** 08/23/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
6010D	CDISTEFANO	NMANSEN
8260D		FNAEGLER
Hach 8000 (1979)		SDUBE
Organic Acids		AFELSER
RSK 175		FNAEGLER

Sample Name: OLN-UA002-F009 **Date Collected:** 08/20/24
Lab Code: R2408140-003 **Date Received:** 08/23/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
6010D	CDISTEFANO	NMANSEN
8260D		FNAEGLER
Hach 8000 (1979)		SDUBE
Organic Acids		AFELSER
RSK 175		FNAEGLER

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408140
Project: Olean OU3 12-Month Sampling/300-082

Sample Name: OLN-FB001-B009 **Date Collected:** 08/20/24
Lab Code: R2408140-004 **Date Received:** 08/23/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
6010D	CDISTEFANO	NMANSEN
8260D		FNAEGLER
Hach 8000 (1979)		SDUBE
Organic Acids		AFELSER
RSK 175		FNAEGLER

Sample Name: OLN-CW13A-F009 **Date Collected:** 08/21/24
Lab Code: R2408140-005 **Date Received:** 08/23/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010D	CDISTEFANO	NMANSEN
8260D		FNAEGLER
Hach 8000 (1979)		SDUBE

Sample Name: OLV-CW013-F009 **Date Collected:** 08/21/24
Lab Code: R2408140-006 **Date Received:** 08/23/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010D	CDISTEFANO	NMANSEN
8260D		FNAEGLER
Hach 8000 (1979)		SDUBE

Sample Name: OLN-EB001-E009 **Date Collected:** 08/21/24
Lab Code: R2408140-007 **Date Received:** 08/23/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408140
Project: Olean OU3 12-Month Sampling/300-082

Sample Name: OLN-EB001-E009 **Date Collected:** 08/21/24
Lab Code: R2408140-007 **Date Received:** 08/23/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010D	CDISTEFANO	NMANSEN
8260D		FNAEGLER
Hach 8000 (1979)		SDUBE
Organic Acids		AFELSER
RSK 175		FNAEGLER

Sample Name: OLN-FB002-B009 **Date Collected:** 08/21/24
Lab Code: R2408140-008 **Date Received:** 08/23/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
6010D	CDISTEFANO	NMANSEN
8260D		FNAEGLER
Hach 8000 (1979)		SDUBE
Organic Acids		AFELSER
RSK 175		FNAEGLER

Sample Name: OLN-18M-F009 **Date Collected:** 08/21/24
Lab Code: R2408140-009 **Date Received:** 08/23/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010D	CDISTEFANO	NMANSEN
8260D		FNAEGLER
Hach 8000 (1979)		SDUBE

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408140
Project: Olean OU3 12-Month Sampling/300-082

Sample Name: OLN-RU028-F009 **Date Collected:** 08/21/24
Lab Code: R2408140-010 **Date Received:** 08/23/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
6010D	CDISTEFANO	NMANSEN
8260D		FNAEGLER
Hach 8000 (1979)		SDUBE
Organic Acids		AFELSER
RSK 175		FNAEGLER

Sample Name: OLN-RU020-F009 **Date Collected:** 08/21/24
Lab Code: R2408140-011 **Date Received:** 08/23/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
6010D	CDISTEFANO	NMANSEN
8260D		FNAEGLER
Hach 8000 (1979)		SDUBE
Organic Acids		AFELSER
RSK 175		FNAEGLER

Sample Name: OLN-RU021-F009 **Date Collected:** 08/22/24
Lab Code: R2408140-012 **Date Received:** 08/23/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
6010D	CDISTEFANO	NMANSEN
8260D		FNAEGLER
Hach 8000 (1979)		SDUBE
Organic Acids		AFELSER
RSK 175		FNAEGLER

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408140
Project: Olean OU3 12-Month Sampling/300-082

Sample Name: OLN-FD002-D009 **Date Collected:** 08/22/24
Lab Code: R2408140-013 **Date Received:** 08/23/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
6010D	CDISTEFANO	NMANSEN
8260D		FNAEGLER
Hach 8000 (1979)		SDUBE
Organic Acids		AFELSER
RSK 175		FNAEGLER

Sample Name: OLN-TB003-T009 **Date Collected:** 08/22/24
Lab Code: R2408140-014 **Date Received:** 08/23/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260D		FNAEGLER

PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

INORGANIC

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C or 6010D	3005A/3010A
6020A or 6020B	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-N-2016 Amenable and Residual Cyanide	SM 4500-CN-G and SM 4500-CN-B,C-2016
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C or 6010D	3050B
6020A or 6020B	3050B
6010C or 6010D TCLP (1311) extract	3005A/3010A
6010C or 6010D SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

ORGANIC

Preparation Methods for Organic methods are listed in the header of the Results pages.

Regarding "Bulk/5035A":
For soil/solid samples submitted in soil jars for Volatiles analysis, the prep method is listed as "Bulk/5035A". The lab follows the closed-system EPA 5035A protocols once the sample is transferred to a sealed vial, but collection in bulk in soil jars does not follow the collection protocols listed in EPA 5035A. In accordance with the NYSDOH technical notice of October 2012, all results or reporting limits <200 ug/kg are to be considered estimated due to potential low bias.

Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-TB001-T009	**Units:**	ug/L
Lab Code:	R2408140-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/30/24 13:09	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	08/30/24 13:09	
Vinyl Chloride	1.0 U	1.0	0.20	1	08/30/24 13:09	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	08/30/24 13:09	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	08/30/24 13:09	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	08/30/24 13:09	
Dibromofluoromethane	99	80 - 116	08/30/24 13:09	
Toluene-d8	102	87 - 121	08/30/24 13:09	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 13:37
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-UA003-F009	**Units:**	ug/L
Lab Code:	R2408140-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/30/24 14:43	
Trichloroethene (TCE)	**0.34 J**	1.0	0.20	1	08/30/24 14:43	
Vinyl Chloride	1.0 U	1.0	0.20	1	08/30/24 14:43	
cis-1,2-Dichloroethene	**0.68 J**	1.0	0.23	1	08/30/24 14:43	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	08/30/24 14:43	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	08/30/24 14:43	
Dibromofluoromethane	99	80 - 116	08/30/24 14:43	
Toluene-d8	102	87 - 121	08/30/24 14:43	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 15:25
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-UA002-F009	**Units:**	ug/L
Lab Code:	R2408140-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/30/24 15:07	
Trichloroethene (TCE)	**2.4**	1.0	0.20	1	08/30/24 15:07	
Vinyl Chloride	**0.60 J**	1.0	0.20	1	08/30/24 15:07	
cis-1,2-Dichloroethene	**3.9**	1.0	0.23	1	08/30/24 15:07	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	08/30/24 15:07	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	08/30/24 15:07	
Dibromofluoromethane	99	80 - 116	08/30/24 15:07	
Toluene-d8	102	87 - 121	08/30/24 15:07	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 16:25
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FB001-B009	**Units:**	ug/L
Lab Code:	R2408140-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/30/24 13:32	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	08/30/24 13:32	
Vinyl Chloride	1.0 U	1.0	0.20	1	08/30/24 13:32	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	08/30/24 13:32	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	08/30/24 13:32	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	08/30/24 13:32	
Dibromofluoromethane	100	80 - 116	08/30/24 13:32	
Toluene-d8	104	87 - 121	08/30/24 13:32	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 08:33
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-CW13A-F009	**Units:**	ug/L
Lab Code:	R2408140-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/30/24 15:30	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	08/30/24 15:30	
Vinyl Chloride	1.0 U	1.0	0.20	1	08/30/24 15:30	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	08/30/24 15:30	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	08/30/24 15:30	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	08/30/24 15:30	
Dibromofluoromethane	101	80 - 116	08/30/24 15:30	
Toluene-d8	105	87 - 121	08/30/24 15:30	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 09:41
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLV-CW013-F009	**Units:**	ug/L
Lab Code:	R2408140-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/30/24 15:54	
Trichloroethene (TCE)	**1.7**	1.0	0.20	1	08/30/24 15:54	
Vinyl Chloride	1.0 U	1.0	0.20	1	08/30/24 15:54	
cis-1,2-Dichloroethene	**0.87 J**	1.0	0.23	1	08/30/24 15:54	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	08/30/24 15:54	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	08/30/24 15:54	
Dibromofluoromethane	98	80 - 116	08/30/24 15:54	
Toluene-d8	101	87 - 121	08/30/24 15:54	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 10:15
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-EB001-E009	**Units:**	ug/L
Lab Code:	R2408140-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/30/24 13:56	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	08/30/24 13:56	
Vinyl Chloride	1.0 U	1.0	0.20	1	08/30/24 13:56	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	08/30/24 13:56	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	08/30/24 13:56	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	08/30/24 13:56	
Dibromofluoromethane	98	80 - 116	08/30/24 13:56	
Toluene-d8	101	87 - 121	08/30/24 13:56	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 10:35
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FB002-B009	**Units:**	ug/L
Lab Code:	R2408140-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/30/24 14:19	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	08/30/24 14:19	
Vinyl Chloride	1.0 U	1.0	0.20	1	08/30/24 14:19	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	08/30/24 14:19	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	08/30/24 14:19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	08/30/24 14:19	
Dibromofluoromethane	100	80 - 116	08/30/24 14:19	
Toluene-d8	103	87 - 121	08/30/24 14:19	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 11:04
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-18M-F009	**Units:**	ug/L
Lab Code:	R2408140-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0	U	1.0	0.21	1	08/30/24 16:18	
Trichloroethene (TCE)	**12**		1.0	0.20	1	08/30/24 16:18	
Vinyl Chloride	1.0	U	1.0	0.20	1	08/30/24 16:18	
cis-1,2-Dichloroethene	**0.47**	**J**	1.0	0.23	1	08/30/24 16:18	
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	1	08/30/24 16:18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	08/30/24 16:18	
Dibromofluoromethane	99	80 - 116	08/30/24 16:18	
Toluene-d8	102	87 - 121	08/30/24 16:18	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 13:06
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU028-F009	**Units:**	ug/L
Lab Code:	R2408140-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	**18**	1.0	0.21	1	08/30/24 16:42	
Trichloroethene (TCE)	**16**	1.0	0.20	1	08/30/24 16:42	
Vinyl Chloride	1.0 U	1.0	0.20	1	08/30/24 16:42	
cis-1,2-Dichloroethene	**2.1**	1.0	0.23	1	08/30/24 16:42	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	08/30/24 16:42	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	08/30/24 16:42	
Dibromofluoromethane	97	80 - 116	08/30/24 16:42	
Toluene-d8	104	87 - 121	08/30/24 16:42	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 15:47
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU020-F009	**Units:**	ug/L
Lab Code:	R2408140-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	2.5 U	2.5	0.53	2.5	08/30/24 17:30	
Trichloroethene (TCE)	**100**	2.5	0.50	2.5	08/30/24 17:30	
Vinyl Chloride	2.5 U	2.5	0.50	2.5	08/30/24 17:30	
cis-1,2-Dichloroethene	**340**	2.5	0.58	2.5	08/30/24 17:30	
trans-1,2-Dichloroethene	**2.4 J**	2.5	0.50	2.5	08/30/24 17:30	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	08/30/24 17:30	
Dibromofluoromethane	106	80 - 116	08/30/24 17:30	
Toluene-d8	108	87 - 121	08/30/24 17:30	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 08:31
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU021-F009	**Units:**	ug/L
Lab Code:	R2408140-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	**3.1**	1.0	0.21	1	08/30/24 17:06	
Trichloroethene (TCE)	**2.5**	1.0	0.20	1	08/30/24 17:06	
Vinyl Chloride	**11**	1.0	0.20	1	08/30/24 17:06	
cis-1,2-Dichloroethene	**20**	1.0	0.23	1	08/30/24 17:06	
trans-1,2-Dichloroethene	**1.1**	1.0	0.20	1	08/30/24 17:06	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	08/30/24 17:06	
Dibromofluoromethane	100	80 - 116	08/30/24 17:06	
Toluene-d8	104	87 - 121	08/30/24 17:06	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 22:00
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FD002-D009	**Units:**	ug/L
Lab Code:	R2408140-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	**3.4**	1.0	0.21	1	08/31/24 14:02	
Trichloroethene (TCE)	**3.0**	1.0	0.20	1	08/31/24 14:02	
Vinyl Chloride	**12**	1.0	0.20	1	08/31/24 14:02	
cis-1,2-Dichloroethene	**20**	1.0	0.23	1	08/31/24 14:02	
trans-1,2-Dichloroethene	**1.1**	1.0	0.20	1	08/31/24 14:02	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	08/31/24 14:02	
Dibromofluoromethane	103	80 - 116	08/31/24 14:02	
Toluene-d8	105	87 - 121	08/31/24 14:02	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-TB003-T009	**Units:**	ug/L
Lab Code:	R2408140-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/30/24 12:45	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	08/30/24 12:45	
Vinyl Chloride	1.0 U	1.0	0.20	1	08/30/24 12:45	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	08/30/24 12:45	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	08/30/24 12:45	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	08/30/24 12:45	
Dibromofluoromethane	100	80 - 116	08/30/24 12:45	
Toluene-d8	102	87 - 121	08/30/24 12:45	

Volatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 13:37
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-UA003-F009	**Units:**	ug/L
Lab Code:	R2408140-002	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	09/02/24 13:54	
Ethene	5.0 U	5.0	1.3	1	09/02/24 13:54	
Methane	**460**	5.2	3.0	1	09/02/24 13:54	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 15:25
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-UA002-F009	**Units:**	ug/L
Lab Code:	R2408140-003	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	13 U	13	2.2	2.5	09/02/24 14:07	
Ethene	13 U	13	3.1	2.5	09/02/24 14:07	
Methane	**340**	13	7.5	2.5	09/02/24 14:07	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 16:25
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FB001-B009	**Units:**	ug/L
Lab Code:	R2408140-004	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	09/02/24 14:19	
Ethene	5.0 U	5.0	1.3	1	09/02/24 14:19	
Methane	5.2 U	5.2	3.0	1	09/02/24 14:19	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 10:15
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-EB001-E009	**Units:**	ug/L
Lab Code:	R2408140-007	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	09/02/24 14:30	
Ethene	5.0 U	5.0	1.3	1	09/02/24 14:30	
Methane	5.2 U	5.2	3.0	1	09/02/24 14:30	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 10:35
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FB002-B009	**Units:**	ug/L
Lab Code:	R2408140-008	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	09/02/24 14:43	
Ethene	5.0 U	5.0	1.3	1	09/02/24 14:43	
Methane	5.2 U	5.2	3.0	1	09/02/24 14:43	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 13:06
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU028-F009	**Units:**	ug/L
Lab Code:	R2408140-010	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	**0.93 J**	5.2	0.85	1	09/02/24 14:55	
Ethene	5.0 U	5.0	1.3	1	09/02/24 14:55	
Methane	**3.2 J**	5.2	3.0	1	09/02/24 14:55	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 15:47
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU020-F009	**Units:**	ug/L
Lab Code:	R2408140-011	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	52 U	52	8.5	10	09/03/24 12:31	
Ethene	50 U	50	13	10	09/03/24 12:31	
Methane	**4200**	52	30	10	09/03/24 12:31	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 08:31
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU021-F009	**Units:**	ug/L
Lab Code:	R2408140-012	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	100 U	100	17	20	09/03/24 12:42	
Ethene	100 U	100	25	20	09/03/24 12:42	
Methane	**8400**	100	60	20	09/03/24 12:42	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 22:00
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FD002-D009	**Units:**	ug/L
Lab Code:	R2408140-013	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	100 U	100	17	20	09/03/24 12:54	
Ethene	100 U	100	25	20	09/03/24 12:54	
Methane	**6600**	100	60	20	09/03/24 12:54	

Semivolatile Organic Compounds by GC

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 13:37
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-UA003-F009	**Units:**	mg/L
Lab Code:	R2408140-002	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	09/05/24 06:34	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	09/05/24 06:34	
Propionic Acid	2.0 U	2.0	1.1	1	09/05/24 06:34	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 15:25
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-UA002-F009	**Units:**	mg/L
Lab Code:	R2408140-003	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	09/05/24 07:06	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	09/05/24 07:06	
Propionic Acid	2.0 U	2.0	1.1	1	09/05/24 07:06	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 16:25
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FB001-B009	**Units:**	mg/L
Lab Code:	R2408140-004	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0	U	1.0	0.56	1	09/05/24 07:37	
Butanoic Acid (Butyric Acid)	10	U	10	5.0	1	09/05/24 07:37	
Propionic Acid	2.0	U	2.0	1.1	1	09/05/24 07:37	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 10:15
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-EB001-E009	**Units:**	mg/L
Lab Code:	R2408140-007	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	09/05/24 08:09	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	09/05/24 08:09	
Propionic Acid	2.0 U	2.0	1.1	1	09/05/24 08:09	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 10:35
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FB002-B009	**Units:**	mg/L
Lab Code:	R2408140-008	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	09/05/24 08:41	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	09/05/24 08:41	
Propionic Acid	2.0 U	2.0	1.1	1	09/05/24 08:41	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 13:06
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU028-F009	**Units:**	mg/L
Lab Code:	R2408140-010	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**230**	1.0	0.56	1	09/05/24 09:45	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	09/05/24 09:45	
Propionic Acid	**40**	2.0	1.1	1	09/05/24 09:45	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 15:47
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU020-F009	**Units:**	mg/L
Lab Code:	R2408140-011	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**0.66**	**J**	1.0	0.56	1	09/05/24 10:16	
Butanoic Acid (Butyric Acid)	10	U	10	5.0	1	09/05/24 10:16	
Propionic Acid	2.0	U	2.0	1.1	1	09/05/24 10:16	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 08:31
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU021-F009	**Units:**	mg/L
Lab Code:	R2408140-012	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**7.1**	1.0	0.56	1	09/05/24 10:48	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	09/05/24 10:48	
Propionic Acid	**10**	2.0	1.1	1	09/05/24 10:48	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 22:00
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FD002-D009	**Units:**	mg/L
Lab Code:	R2408140-013	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**7.4**	1.0	0.56	1	09/05/24 11:20	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	09/05/24 11:20	
Propionic Acid	**9.3**	2.0	1.1	1	09/05/24 11:20	

Metals

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Form 1

Inorganic Analysis Data Sheet

Metals by EPA 6010D

Workorder

R2408140

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 12-Month Sampling

09/24/2024

ALS Environmental–Rochester Laboratory
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Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408140**

Metals by EPA 6010D (P)

OLN-UA003-F009	Collected	Received	Matrix	Prep Method
R2408140-002	08/20/24 1337	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	09/09/24 19:00	R-ICP-AES-07_853503	444305
P	Iron, Dissolved	5520		ug/L	70	100	1	09/09/24 19:00	R-ICP-AES-07_853503	444305
P	Manganese, Dissolved	1440		ug/L	4	10	1	09/09/24 19:00	R-ICP-AES-07_853503	444305

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408140**

Metals by EPA 6010D (P)

OLN-UA002-F009	Collected	Received	Matrix	Prep Method
R2408140-003	08/20/24 1525	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	09/09/24 19:03	R-ICP-AES-07_853503	444305
P	Iron, Dissolved	1600		ug/L	70	100	1	09/09/24 19:03	R-ICP-AES-07_853503	444305
P	Manganese, Dissolved	1250		ug/L	4	10	1	09/09/24 19:03	R-ICP-AES-07_853503	444305

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408140**

Metals by EPA 6010D (P)

OLN-FB001-B009	Collected	Received	Matrix	Prep Method
R2408140-004	08/20/24 1625	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	09/09/24 19:07	R-ICP-AES-07_853503	444305
P	Iron, Dissolved	100	U	ug/L	70	100	1	09/09/24 19:07	R-ICP-AES-07_853503	444305
P	Manganese, Dissolved	10	U	ug/L	4	10	1	09/09/24 19:07	R-ICP-AES-07_853503	444305

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408140**

Metals by EPA 6010D (P)

OLN-CW13A-F009	Collected	Received	Matrix	Prep Method
R2408140-005	08/21/24 0833	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	09/09/24 19:10	R-ICP-AES-07_853503	444305
P	Iron, Dissolved	3060		ug/L	70	100	1	09/09/24 19:10	R-ICP-AES-07_853503	444305
P	Manganese, Dissolved	3890		ug/L	4	10	1	09/09/24 19:10	R-ICP-AES-07_853503	444305

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 12-Month Sampling	**R2408140**	

Metals by EPA 6010D (P)

OLV-CW013-F009	Collected	Received	Matrix	Prep Method
R2408140-006	08/21/24 0941	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	09/09/24 19:13	R-ICP-AES-07_853503	444305
P	Iron, Dissolved	3120		ug/L	70	100	1	09/09/24 19:13	R-ICP-AES-07_853503	444305
P	Manganese, Dissolved	346		ug/L	4	10	1	09/09/24 19:13	R-ICP-AES-07_853503	444305

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408140**

Metals by EPA 6010D (P)

OLN-EB001-E009	Collected	Received	Matrix	Prep Method
R2408140-007	08/21/24 1015	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	09/09/24 19:16	R-ICP-AES-07_853503	444305
P	Iron, Dissolved	100	U	ug/L	70	100	1	09/09/24 19:16	R-ICP-AES-07_853503	444305
P	Manganese, Dissolved	10	U	ug/L	4	10	1	09/09/24 19:16	R-ICP-AES-07_853503	444305

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408140**

Metals by EPA 6010D (P)

OLN-FB002-B009	Collected	Received	Matrix	Prep Method
R2408140-008	08/21/24 1035	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	09/09/24 19:20	R-ICP-AES-07_853503	444305
P	Iron, Dissolved	100	U	ug/L	70	100	1	09/09/24 19:20	R-ICP-AES-07_853503	444305
P	Manganese, Dissolved	10	U	ug/L	4	10	1	09/09/24 19:20	R-ICP-AES-07_853503	444305

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408140**

Metals by EPA 6010D (P)

OLN-18M-F009	Collected	Received	Matrix	Prep Method
R2408140-009	08/21/24 1104	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	09/09/24 19:23	R-ICP-AES-07_853503	444305
P	Iron, Dissolved	100	U	ug/L	70	100	1	09/09/24 19:23	R-ICP-AES-07_853503	444305
P	Manganese, Dissolved	10	J	ug/L	4	10	1	09/09/24 19:23	R-ICP-AES-07_853503	444305

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408140**

Metals by EPA 6010D (P)

OLN-RU028-F009	Collected	Received	Matrix	Prep Method
R2408140-010	08/21/24 1306	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	09/09/24 19:32	R-ICP-AES-07_853503	444305
P	Iron, Dissolved	690		ug/L	70	100	1	09/09/24 19:32	R-ICP-AES-07_853503	444305
P	Manganese, Dissolved	3140		ug/L	4	10	1	09/09/24 19:32	R-ICP-AES-07_853503	444305

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408140**

Metals by EPA 6010D (P)

OLN-RU020-F009	Collected	Received	Matrix	Prep Method
R2408140-011	08/21/24 1547	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	6	J	ug/L	6	10	1	09/09/24 19:36	R-ICP-AES-07_853503	444305
P	Iron, Dissolved	310		ug/L	70	100	1	09/09/24 19:36	R-ICP-AES-07_853503	444305
P	Manganese, Dissolved	811		ug/L	4	10	1	09/09/24 19:36	R-ICP-AES-07_853503	444305

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408140**

Metals by EPA 6010D (P)

OLN-RU021-F009	Collected	Received	Matrix	Prep Method
R2408140-012	08/22/24 0831	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	100		ug/L	6	10	1	09/09/24 19:39	R-ICP-AES-07_853503	444305
P	Iron, Dissolved	59300		ug/L	70	100	1	09/09/24 19:39	R-ICP-AES-07_853503	444305
P	Manganese, Dissolved	4190		ug/L	4	10	1	09/09/24 19:39	R-ICP-AES-07_853503	444305

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408140**

Metals by EPA 6010D (P)

OLN-FD002-D009	Collected	Received	Matrix	Prep Method
R2408140-013	08/22/24 2200	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	102		ug/L	6	10	1	09/09/24 19:42	R-ICP-AES-07_853503	444305
P	Iron, Dissolved	60300		ug/L	70	100	1	09/09/24 19:42	R-ICP-AES-07_853503	444305
P	Manganese, Dissolved	4240		ug/L	4	10	1	09/09/24 19:42	R-ICP-AES-07_853503	444305

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408140**

Metals by EPA 6010D (P)

Method Blank

	Matrix	Prep Method
R2408140-MB	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	09/09/24 18:54	R-ICP-AES-07_853503	444305
P	Iron, Dissolved	100	U	ug/L	70	100	1	09/09/24 18:54	R-ICP-AES-07_853503	444305
P	Manganese, Dissolved	10	U	ug/L	4	10	1	09/09/24 18:54	R-ICP-AES-07_853503	444305

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

General Chemistry

ALS Environmental—Rochester Laboratory
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www.alsglobal.com

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 13:37
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-UA003-F009	**Basis:**	NA
Lab Code:	R2408140-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**99.2**	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	**15.1**	mg/L	2.0	0.4	10	09/14/24 17:18	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 15:25
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-UA002-F009	**Basis:**	NA
Lab Code:	R2408140-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**21.9**	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	**21.1**	mg/L	2.0	0.4	10	09/14/24 17:24	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 16:25
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FB001-B009	**Basis:**	NA
Lab Code:	R2408140-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**5.3**	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	2.0 U	mg/L	2.0	0.4	10	09/14/24 17:30	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 08:33
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-CW13A-F009	**Basis:**	NA
Lab Code:	R2408140-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**25.7**	mg/L	5.0	3.8	1	09/06/24 14:00	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 09:41
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLV-CW013-F009	**Basis:**	NA
Lab Code:	R2408140-006		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**8.3**	mg/L	5.0	3.8	1	09/06/24 14:00	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 10:15
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-EB001-E009	**Basis:**	NA
Lab Code:	R2408140-007		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**5.6**	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	2.0 U	mg/L	2.0	0.4	10	09/14/24 17:37	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 10:35
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FB002-B009	**Basis:**	NA
Lab Code:	R2408140-008		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	5.0	U	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	2.0	U	mg/L	2.0	0.4	10	09/15/24 14:36	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 11:04
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-18M-F009	**Basis:**	NA
Lab Code:	R2408140-009		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	5.0 U	mg/L	5.0	3.8	1	09/06/24 14:00	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 13:06
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU028-F009	**Basis:**	NA
Lab Code:	R2408140-010		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**5590**	mg/L	50	38	10	09/06/24 14:00	
Sulfate	300.0	**19.2**	mg/L	2.0	0.4	10	09/15/24 14:42	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 15:47
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU020-F009	**Basis:**	NA
Lab Code:	R2408140-011		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**56.3**	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	**264**	mg/L	8.0	1.6	40	09/15/24 18:13	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 08:31
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU021-F009	**Basis:**	NA
Lab Code:	R2408140-012		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**272**	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	**60.8**	mg/L	2.0	0.4	10	09/14/24 17:55	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 22:00
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FD002-D009	**Basis:**	NA
Lab Code:	R2408140-013		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**284**	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	**62.3**	mg/L	2.0	0.4	10	09/14/24 18:02	

QC Summary Forms

ALS Environmental—Rochester Laboratory
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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
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www.alsglobal.com

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408140
Project: Olean OU3 12-Month Sampling/300-082
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene 85 - 122	Dibromofluoromethane 80 - 116	Toluene-d8 87 - 121
OLN-TB001-T009	R2408140-001	99	99	102
OLN-UA003-F009	R2408140-002	97	99	102
OLN-UA002-F009	R2408140-003	94	99	102
OLN-FB001-B009	R2408140-004	99	100	104
OLN-CW13A-F009	R2408140-005	103	101	105
OLV-CW013-F009	R2408140-006	94	98	101
OLN-EB001-E009	R2408140-007	97	98	101
OLN-FB002-B009	R2408140-008	99	100	103
OLN-18M-F009	R2408140-009	95	99	102
OLN-RU028-F009	R2408140-010	104	97	104
OLN-RU020-F009	R2408140-011	104	106	108
OLN-RU021-F009	R2408140-012	99	100	104
OLN-FD002-D009	R2408140-013	102	103	105
OLN-TB003-T009	R2408140-014	97	100	102
Lab Control Sample	RQ2410802-03	99	101	100
Method Blank	RQ2410802-05	96	99	101
Lab Control Sample	RQ2410851-02	104	105	106
Method Blank	RQ2410851-03	102	101	105

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QA/QC Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	08/30/24 10:00
Sample Matrix:	Water	**Date Extracted:**	

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	R-MS-17
Lab Code:	RQ2410802-05	**File ID:**	I:\ACQUDATA\MSVOA17\Data\083024\K5392.D\
Analysis Method:	8260D	**Analysis Lot:**	852468
Prep Method:	EPA 5030C		

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ2410802-03	I:\ACQUDATA\MSVOA17\Data\083024 \K5389.D\	08/30/24 08:41
OLN-TB003-T009	R2408140-014	I:\ACQUDATA\MSVOA17\Data\083024 \K5399.D\	08/30/24 12:45
OLN-TB001-T009	R2408140-001	I:\ACQUDATA\MSVOA17\Data\083024 \K5400.D\	08/30/24 13:09
OLN-FB001-B009	R2408140-004	I:\ACQUDATA\MSVOA17\Data\083024 \K5401.D\	08/30/24 13:32
OLN-EB001-E009	R2408140-007	I:\ACQUDATA\MSVOA17\Data\083024 \K5402.D\	08/30/24 13:56
OLN-FB002-B009	R2408140-008	I:\ACQUDATA\MSVOA17\Data\083024 \K5403.D\	08/30/24 14:19
OLN-UA003-F009	R2408140-002	I:\ACQUDATA\MSVOA17\Data\083024 \K5404.D\	08/30/24 14:43
OLN-UA002-F009	R2408140-003	I:\ACQUDATA\MSVOA17\Data\083024 \K5405.D\	08/30/24 15:07
OLN-CW13A-F009	R2408140-005	I:\ACQUDATA\MSVOA17\Data\083024 \K5406.D\	08/30/24 15:30
OLV-CW013-F009	R2408140-006	I:\ACQUDATA\MSVOA17\Data\083024 \K5407.D\	08/30/24 15:54
OLN-18M-F009	R2408140-009	I:\ACQUDATA\MSVOA17\Data\083024 \K5408.D\	08/30/24 16:18
OLN-RU028-F009	R2408140-010	I:\ACQUDATA\MSVOA17\Data\083024 \K5409.D\	08/30/24 16:42
OLN-RU021-F009	R2408140-012	I:\ACQUDATA\MSVOA17\Data\083024 \K5410.D\	08/30/24 17:06
OLN-RU020-F009	R2408140-011	I:\ACQUDATA\MSVOA17\Data\083024\K5411.D	08/30/24 17:30

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	08/31/24 12:52
Sample Matrix:	Water	**Date Extracted:**	

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	R-MS-17
Lab Code:	RQ2410851-03	**File ID:**	I:\ACQUDATA\MSVOA17\Data\083124\K5425.D\
Analysis Method:	8260D	**Analysis Lot:**	852643
Prep Method:	EPA 5030C		

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ2410851-02	I:\ACQUDATA\MSVOA17\Data\083124 \K5422.D\	08/31/24 11:32
OLN-FD002-D009	R2408140-013	I:\ACQUDATA\MSVOA17\Data\083124 \K5428.D\	08/31/24 14:02

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2410802-05	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/30/24 10:00	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	08/30/24 10:00	
Vinyl Chloride	1.0 U	1.0	0.20	1	08/30/24 10:00	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	08/30/24 10:00	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	08/30/24 10:00	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	08/30/24 10:00	
Dibromofluoromethane	99	80 - 116	08/30/24 10:00	
Toluene-d8	101	87 - 121	08/30/24 10:00	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2410851-03	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/31/24 12:52	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	08/31/24 12:52	
Vinyl Chloride	1.0 U	1.0	0.20	1	08/31/24 12:52	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	08/31/24 12:52	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	08/31/24 12:52	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	08/31/24 12:52	
Dibromofluoromethane	101	80 - 116	08/31/24 12:52	
Toluene-d8	105	87 - 121	08/31/24 12:52	

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QA/QC Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	08/30/24 08:41
Sample Matrix:	Water	**Date Extracted:**	

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Lab Control Sample	**Instrument ID:**	R-MS-17
Lab Code:	RQ2410802-03	**File ID:**	I:\ACQUDATA\MSVOA17\Data\083024\K5389.D\
Analysis Method:	8260D	**Analysis Lot:**	852468
Prep Method:	EPA 5030C		

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ2410802-05	I:\ACQUDATA\MSVOA17\Data\083024 \K5392.D\	08/30/24 10:00
OLN-TB003-T009	R2408140-014	I:\ACQUDATA\MSVOA17\Data\083024 \K5399.D\	08/30/24 12:45
OLN-TB001-T009	R2408140-001	I:\ACQUDATA\MSVOA17\Data\083024 \K5400.D\	08/30/24 13:09
OLN-FB001-B009	R2408140-004	I:\ACQUDATA\MSVOA17\Data\083024 \K5401.D\	08/30/24 13:32
OLN-EB001-E009	R2408140-007	I:\ACQUDATA\MSVOA17\Data\083024 \K5402.D\	08/30/24 13:56
OLN-FB002-B009	R2408140-008	I:\ACQUDATA\MSVOA17\Data\083024 \K5403.D\	08/30/24 14:19
OLN-UA003-F009	R2408140-002	I:\ACQUDATA\MSVOA17\Data\083024 \K5404.D\	08/30/24 14:43
OLN-UA002-F009	R2408140-003	I:\ACQUDATA\MSVOA17\Data\083024 \K5405.D\	08/30/24 15:07
OLN-CW13A-F009	R2408140-005	I:\ACQUDATA\MSVOA17\Data\083024 \K5406.D\	08/30/24 15:30
OLV-CW013-F009	R2408140-006	I:\ACQUDATA\MSVOA17\Data\083024 \K5407.D\	08/30/24 15:54
OLN-18M-F009	R2408140-009	I:\ACQUDATA\MSVOA17\Data\083024 \K5408.D\	08/30/24 16:18
OLN-RU028-F009	R2408140-010	I:\ACQUDATA\MSVOA17\Data\083024 \K5409.D\	08/30/24 16:42
OLN-RU021-F009	R2408140-012	I:\ACQUDATA\MSVOA17\Data\083024 \K5410.D\	08/30/24 17:06
OLN-RU020-F009	R2408140-011	I:\ACQUDATA\MSVOA17\Data\083024\K5411.D	08/30/24 17:30

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	08/31/24 11:32
Sample Matrix:	Water	**Date Extracted:**	

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Lab Control Sample	**Instrument ID:**	R-MS-17
Lab Code:	RQ2410851-02	**File ID:**	I:\ACQUDATA\MSVOA17\Data\083124\K5422.D\
Analysis Method:	8260D	**Analysis Lot:**	852643
Prep Method:	EPA 5030C		

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ2410851-03	I:\ACQUDATA\MSVOA17\Data\083124 \K5425.D\	08/31/24 12:52
OLN-FD002-D009	R2408140-013	I:\ACQUDATA\MSVOA17\Data\083124 \K5428.D\	08/31/24 14:02

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 12-Month Sampling/300-082
Sample Matrix: Water

Service Request: R2408140
Date Analyzed: 08/30/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2410802-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Tetrachloroethene (PCE)	8260D	18.7	20.0	94	72-125
Trichloroethene (TCE)	8260D	17.7	20.0	88	74-122
Vinyl Chloride	8260D	15.7	20.0	79	74-159
cis-1,2-Dichloroethene	8260D	17.4	20.0	87	80-121
trans-1,2-Dichloroethene	8260D	16.5	20.0	83	73-118

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 12-Month Sampling/300-082
Sample Matrix: Water

Service Request: R2408140
Date Analyzed: 08/31/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2410851-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Tetrachloroethene (PCE)	8260D	21.1	20.0	105	72-125
Trichloroethene (TCE)	8260D	20.3	20.0	102	74-122
Vinyl Chloride	8260D	19.2	20.0	96	74-159
cis-1,2-Dichloroethene	8260D	20.5	20.0	102	80-121
trans-1,2-Dichloroethene	8260D	20.4	20.0	102	73-118

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408140
Project: Olean OU3 12-Month Sampling/300-082 **Date Analyzed:**08/30/24 07:42

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA17\Data\083024\K5387.D\ **Analytical Method:** 8260D
Instrument ID: R-MS-17 **Analysis Lot:** 852468

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ2410802-01	I:\ACQUDATA\MSVOA17\Data\083024\K5387.D\	08/30/24 07:42	
Lab Control Sample	RQ2410802-03	I:\ACQUDATA\MSVOA17\Data\083024\K5389.D\	08/30/24 08:41	
Method Blank	RQ2410802-05	I:\ACQUDATA\MSVOA17\Data\083024\K5392.D\	08/30/24 10:00	
OLN-TB003-T009	R2408140-014	I:\ACQUDATA\MSVOA17\Data\083024\K5399.D\	08/30/24 12:45	
OLN-TB001-T009	R2408140-001	I:\ACQUDATA\MSVOA17\Data\083024\K5400.D\	08/30/24 13:09	
OLN-FB001-B009	R2408140-004	I:\ACQUDATA\MSVOA17\Data\083024\K5401.D\	08/30/24 13:32	
OLN-EB001-E009	R2408140-007	I:\ACQUDATA\MSVOA17\Data\083024\K5402.D\	08/30/24 13:56	
OLN-FB002-B009	R2408140-008	I:\ACQUDATA\MSVOA17\Data\083024\K5403.D\	08/30/24 14:19	
OLN-UA003-F009	R2408140-002	I:\ACQUDATA\MSVOA17\Data\083024\K5404.D\	08/30/24 14:43	
OLN-UA002-F009	R2408140-003	I:\ACQUDATA\MSVOA17\Data\083024\K5405.D\	08/30/24 15:07	
OLN-CW13A-F009	R2408140-005	I:\ACQUDATA\MSVOA17\Data\083024\K5406.D\	08/30/24 15:30	
OLV-CW013-F009	R2408140-006	I:\ACQUDATA\MSVOA17\Data\083024\K5407.D\	08/30/24 15:54	
OLN-18M-F009	R2408140-009	I:\ACQUDATA\MSVOA17\Data\083024\K5408.D\	08/30/24 16:18	
OLN-RU028-F009	R2408140-010	I:\ACQUDATA\MSVOA17\Data\083024\K5409.D\	08/30/24 16:42	
OLN-RU021-F009	R2408140-012	I:\ACQUDATA\MSVOA17\Data\083024\K5410.D\	08/30/24 17:06	
OLN-RU020-F009	R2408140-011	I:\ACQUDATA\MSVOA17\Data\083024\K5411.D\	08/30/24 17:30	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408140
Project: Olean OU3 12-Month Sampling/300-082 **Date Analyzed:**08/31/24 11:00

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA17\Data\083124\K5421.D\ **Analytical Method:** 8260D
Instrument ID: R-MS-17 **Analysis Lot:** 852643

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ2410851-01	I:\ACQUDATA\MSVOA17\Data\083124\K5421.D\	08/31/24 11:00	
Lab Control Sample	RQ2410851-02	I:\ACQUDATA\MSVOA17\Data\083124\K5422.D\	08/31/24 11:32	
Method Blank	RQ2410851-03	I:\ACQUDATA\MSVOA17\Data\083124\K5425.D\	08/31/24 12:52	
OLN-FD002-D009	R2408140-013	I:\ACQUDATA\MSVOA17\Data\083124\K5428.D\	08/31/24 14:02	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408140
Project: Olean OU3 12-Month Sampling/300-082 **Date Analyzed:**08/30/24 07:42

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA17\Data\083024\K5387.D\ **Lab Code:**RQ2410802-01
Instrument ID: R-MS-17 **Analysis Lot:**852468
Analysis Method: 8260D **Signal ID:**1

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	272,758	11.64	629,204	6.17	567,778	9.57
	Upper Limit ==>	545,516	11.81	1,258,408	6.34	1,135,556	9.74
	Lower Limit ==>	136,379	11.47	314,602	6.00	283,889	9.40
Associated Analyses							
Lab Control Sample	RQ2410802-03	273606	11.64	643725	6.17	571471	9.57
Method Blank	RQ2410802-05	258249	11.64	626756	6.17	563835	9.57
OLN-TB003-T009	R2408140-014	251575	11.64	619847	6.17	543968	9.57
OLN-TB001-T009	R2408140-001	247597	11.64	604047	6.17	538917	9.57
OLN-FB001-B009	R2408140-004	249835	11.64	607500	6.17	543280	9.57
OLN-EB001-E009	R2408140-007	248027	11.64	614489	6.17	542823	9.57
OLN-FB002-B009	R2408140-008	253821	11.64	614544	6.17	547140	9.57
OLN-UA003-F009	R2408140-002	252592	11.64	605850	6.17	536083	9.57
OLN-UA002-F009	R2408140-003	251209	11.64	607254	6.17	542668	9.57
OLN-CW13A-F009	R2408140-005	245731	11.64	607882	6.18	541990	9.57
OLV-CW013-F009	R2408140-006	249831	11.64	615964	6.17	545364	9.57
OLN-18M-F009	R2408140-009	252229	11.64	608772	6.18	541470	9.57
OLN-RU028-F009	R2408140-010	254084	11.64	595234	6.17	534893	9.57
OLN-RU021-F009	R2408140-012	246083	11.64	604193	6.17	531838	9.57
OLN-RU020-F009	R2408140-011	254524	11.64	605193	6.17	539968	9.57

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QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408140
Project: Olean OU3 12-Month Sampling/300-082 **Date Analyzed:**08/30/24 07:42

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA17\Data\083024\K5387.D\ **Lab Code:**RQ2410802-01
Instrument ID: R-MS-17 **Analysis Lot:**852468
Analysis Method: 8260D **Signal ID:**1

		Pentafluorobenzene	
		Area	**RT**
	Result ==>	380,460	4.99
	Upper Limit ==>	760,920	5.16
	Lower Limit ==>	190,230	4.82
Associated Analyses			
Lab Control Sample	RQ2410802-03	389081	4.99
Method Blank	RQ2410802-05	383490	4.99
OLN-TB003-T009	R2408140-014	373994	5.00
OLN-TB001-T009	R2408140-001	364468	5.00
OLN-FB001-B009	R2408140-004	367208	4.99
OLN-EB001-E009	R2408140-007	365984	4.99
OLN-FB002-B009	R2408140-008	371283	5.00
OLN-UA003-F009	R2408140-002	358627	4.99
OLN-UA002-F009	R2408140-003	360895	5.00
OLN-CW13A-F009	R2408140-005	363018	4.99
OLV-CW013-F009	R2408140-006	368115	5.00
OLN-18M-F009	R2408140-009	366890	5.00
OLN-RU028-F009	R2408140-010	355060	4.99
OLN-RU021-F009	R2408140-012	363621	4.99
OLN-RU020-F009	R2408140-011	364498	4.99

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408140
Project: Olean OU3 12-Month Sampling/300-082 **Date Analyzed:**08/31/24 11:00

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA17\Data\083124\K5421.D\ **Lab Code:**RQ2410851-01
Instrument ID: R-MS-17 **Analysis Lot:**852643
Analysis Method: 8260D **Signal ID:**1

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	256,641	11.64	615,006	6.17	551,221	9.57
	Upper Limit ==>	513,282	11.81	1,230,012	6.34	1,102,442	9.74
	Lower Limit ==>	128,321	11.47	307,503	6.00	275,611	9.40
Associated Analyses							
Lab Control Sample	RQ2410851-02	275954	11.64	643870	6.17	580444	9.57
Method Blank	RQ2410851-03	260718	11.64	638243	6.17	568242	9.57
OLN-FD002-D009	R2408140-013	257980	11.64	605428	6.17	546216	9.57

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QA/QC Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	08/31/24 11:00

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID:	I:\ACQUDATA\MSVOA17\Data\083124\K5421.D\	**Lab Code:**	RQ2410851-01
Instrument ID:	R-MS-17	**Analysis Lot:**	852643
Analysis Method:	8260D	**Signal ID:**	1

		Pentafluorobenzene	
		Area	**RT**
	Result ==>	371,575	4.99
	Upper Limit ==>	743,150	5.16
	Lower Limit ==>	185,788	4.82
Associated Analyses			
Lab Control Sample	RQ2410851-02	386277	4.99
Method Blank	RQ2410851-03	391681	4.99
OLN-FD002-D009	R2408140-013	366681	4.99

Volatile Organic Compounds by GC

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QA/QC Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	09/02/24 10:09
Sample Matrix:	Water		

Method Blank Summary
Dissolved Gases by GC/FID

Sample Name:	Method Blank	**Instrument ID:**	R-GC-70
Lab Code:	RQ2410862-02	**File ID:**	I:\ACQUDATA\GC-70\DATA\090224\A0855.D\
Analysis Method:	RSK 175	**Analysis Lot:**	852664

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ2410862-03	I:\ACQUDATA\GC-70\DATA\090224\A0856.D\	09/02/24 10:21
OLN-UA003-F009	R2408140-002	I:\ACQUDATA\GC-70\DATA\090224\A0872.D\	09/02/24 13:54
OLN-UA002-F009	R2408140-003	I:\ACQUDATA\GC-70\DATA\090224\A0873.D\	09/02/24 14:07
OLN-FB001-B009	R2408140-004	I:\ACQUDATA\GC-70\DATA\090224\A0874.D\	09/02/24 14:19
OLN-EB001-E009	R2408140-007	I:\ACQUDATA\GC-70\DATA\090224\A0875.D\	09/02/24 14:30
OLN-FB002-B009	R2408140-008	I:\ACQUDATA\GC-70\DATA\090224\A0876.D\	09/02/24 14:43
OLN-RU028-F009	R2408140-010	I:\ACQUDATA\GC-70\DATA\090224\A0877.D\	09/02/24 14:55

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408140
Project: Olean OU3 12-Month Sampling/300-082 **Date Analyzed:** 09/03/24 11:25
Sample Matrix: Water

Method Blank Summary
Dissolved Gases by GC/FID

Sample Name: Method Blank **Instrument ID:**R-GC-70
Lab Code: RQ2410893-02 **File ID:**I:\ACQUDATA\GC-70\DATA\090324\A0884.D\

Analysis Method: RSK 175 **Analysis Lot:**852730

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ2410893-03	I:\ACQUDATA\GC-70\DATA\090324\A0885.D\	09/03/24 11:36
Duplicate Lab Control Sample	RQ2410893-04	I:\ACQUDATA\GC-70\DATA\090324\A0886.D\	09/03/24 12:16
OLN-RU020-F009	R2408140-011	I:\ACQUDATA\GC-70\DATA\090324\A0887.D\	09/03/24 12:31
OLN-RU021-F009	R2408140-012	I:\ACQUDATA\GC-70\DATA\090324\A0888.D\	09/03/24 12:42
OLN-FD002-D009	R2408140-013	I:\ACQUDATA\GC-70\DATA\090324\A0889.D\	09/03/24 12:54

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2410862-02	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	09/02/24 10:09	
Ethene	5.0 U	5.0	1.3	1	09/02/24 10:09	
Methane	5.2 U	5.2	3.0	1	09/02/24 10:09	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2410893-02	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	09/03/24 11:25	
Ethene	5.0 U	5.0	1.3	1	09/03/24 11:25	
Methane	5.2 U	5.2	3.0	1	09/03/24 11:25	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408140
Project: Olean OU3 12-Month Sampling/300-082 **Date Analyzed:** 09/02/24 10:21
Sample Matrix: Water

Lab Control Sample Summary
Dissolved Gases by GC/FID

Sample Name: Lab Control Sample **Instrument ID:**R-GC-70
Lab Code: RQ2410862-03 **File ID:**I:\ACQUDATA\GC-70\DATA\090224\A0856.D\

Analysis Method: RSK 175 **Analysis Lot:**852664

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ2410862-02	I:\ACQUDATA\GC-70\DATA\090224\A0855.D\	09/02/24 10:09
OLN-UA003-F009	R2408140-002	I:\ACQUDATA\GC-70\DATA\090224\A0872.D\	09/02/24 13:54
OLN-UA002-F009	R2408140-003	I:\ACQUDATA\GC-70\DATA\090224\A0873.D\	09/02/24 14:07
OLN-FB001-B009	R2408140-004	I:\ACQUDATA\GC-70\DATA\090224\A0874.D\	09/02/24 14:19
OLN-EB001-E009	R2408140-007	I:\ACQUDATA\GC-70\DATA\090224\A0875.D\	09/02/24 14:30
OLN-FB002-B009	R2408140-008	I:\ACQUDATA\GC-70\DATA\090224\A0876.D\	09/02/24 14:43
OLN-RU028-F009	R2408140-010	I:\ACQUDATA\GC-70\DATA\090224\A0877.D\	09/02/24 14:55

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QA/QC Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	09/03/24 11:36
Sample Matrix:	Water		

Lab Control Sample Summary
Dissolved Gases by GC/FID

Sample Name:	Lab Control Sample	**Instrument ID:**	R-GC-70
Lab Code:	RQ2410893-03	**File ID:**	I:\ACQUDATA\GC-70\DATA\090324\A0885.D\
Analysis Method:	RSK 175	**Analysis Lot:**	852730

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ2410893-02	I:\ACQUDATA\GC-70\DATA\090324\A0884.D\	09/03/24 11:25
Duplicate Lab Control Sample	RQ2410893-04	I:\ACQUDATA\GC-70\DATA\090324\A0886.D\	09/03/24 12:16
OLN-RU020-F009	R2408140-011	I:\ACQUDATA\GC-70\DATA\090324\A0887.D\	09/03/24 12:31
OLN-RU021-F009	R2408140-012	I:\ACQUDATA\GC-70\DATA\090324\A0888.D\	09/03/24 12:42
OLN-FD002-D009	R2408140-013	I:\ACQUDATA\GC-70\DATA\090324\A0889.D\	09/03/24 12:54

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 12-Month Sampling/300-082
Sample Matrix: Water

Service Request: R2408140
Date Analyzed: 09/02/24

Lab Control Sample Summary
Dissolved Gases by GC/FID

Units:ug/L
Basis:NA

Lab Control Sample
RQ2410862-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Ethane	RSK 175	147	130	113	85-115
Ethene	RSK 175	124	121	102	85-115
Methane	RSK 175	135	131	103	85-115

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QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 12-Month Sampling/300-082
Sample Matrix: Water

Service Request: R2408140
Date Analyzed: 09/03/24

Duplicate Lab Control Sample Summary
Dissolved Gases by GC/FID

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2410893-03			RQ2410893-04					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Ethane	RSK 175	143	130	110	141	130	109	85-115	1	20
Ethene	RSK 175	136	121	112	134	121	111	85-115	1	20
Methane	RSK 175	126	131	96	125	131	95	85-115	<1	20

Semivolatile Organic Compounds by GC

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Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408140
Project: Olean OU3 12-Month Sampling/300-082 **Date Analyzed:** 09/04/24 22:05
Sample Matrix: Water

Method Blank Summary

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Sample Name: Method Blank **Instrument ID:**R-HPLC-08
Lab Code: RQ2411191-02 **File ID:**I:\ACQUDATA\HPLC08\DATA\090424\A0000203.D\

Analysis Method: Organic Acids **Analysis Lot:**853323

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ2411191-03	I:\ACQUDATA\HPLC08\DATA\090424 \A0000204.D\	09/04/24 22:37
Duplicate Lab Control Sample	RQ2411191-04	I:\ACQUDATA\HPLC08\DATA\090424 \A0000205.D\	09/04/24 23:09
OLN-UA003-F009	R2408140-002	I:\ACQUDATA\HPLC08\DATA\090424 \A0000219.D\	09/05/24 06:34
OLN-UA002-F009	R2408140-003	I:\ACQUDATA\HPLC08\DATA\090424 \A0000220.D\	09/05/24 07:06
OLN-FB001-B009	R2408140-004	I:\ACQUDATA\HPLC08\DATA\090424 \A0000221.D\	09/05/24 07:37
OLN-EB001-E009	R2408140-007	I:\ACQUDATA\HPLC08\DATA\090424 \A0000222.D\	09/05/24 08:09
OLN-FB002-B009	R2408140-008	I:\ACQUDATA\HPLC08\DATA\090424 \A0000223.D\	09/05/24 08:41
OLN-RU028-F009	R2408140-010	I:\ACQUDATA\HPLC08\DATA\090424 \A0000225.D\	09/05/24 09:45
OLN-RU020-F009	R2408140-011	I:\ACQUDATA\HPLC08\DATA\090424 \A0000226.D\	09/05/24 10:16
OLN-RU021-F009	R2408140-012	I:\ACQUDATA\HPLC08\DATA\090424 \A0000227.D\	09/05/24 10:48
OLN-FD002-D009	R2408140-013	I:\ACQUDATA\HPLC08\DATA\090424 \A0000228.D\	09/05/24 11:20

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	mg/L
Lab Code:	RQ2411191-02	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0	U	1.0	0.56	1	09/04/24 22:05	
Butanoic Acid (Butyric Acid)	10	U	10	5.0	1	09/04/24 22:05	
Propionic Acid	2.0	U	2.0	1.1	1	09/04/24 22:05	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408140
Project: Olean OU3 12-Month Sampling/300-082 **Date Analyzed:** 09/04/24 22:37
Sample Matrix: Water

Lab Control Sample Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Sample Name: Lab Control Sample **Instrument ID:**R-HPLC-08
Lab Code: RQ2411191-03 **File ID:**I:\ACQUDATA\HPLC08\DATA\090424\A0000204.D\

Analysis Method: Organic Acids **Analysis Lot:**853323

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ2411191-02	I:\ACQUDATA\HPLC08\DATA\090424 \A0000203.D\	09/04/24 22:05
Duplicate Lab Control Sample	RQ2411191-04	I:\ACQUDATA\HPLC08\DATA\090424 \A0000205.D\	09/04/24 23:09
OLN-UA003-F009	R2408140-002	I:\ACQUDATA\HPLC08\DATA\090424 \A0000219.D\	09/05/24 06:34
OLN-UA002-F009	R2408140-003	I:\ACQUDATA\HPLC08\DATA\090424 \A0000220.D\	09/05/24 07:06
OLN-FB001-B009	R2408140-004	I:\ACQUDATA\HPLC08\DATA\090424 \A0000221.D\	09/05/24 07:37
OLN-EB001-E009	R2408140-007	I:\ACQUDATA\HPLC08\DATA\090424 \A0000222.D\	09/05/24 08:09
OLN-FB002-B009	R2408140-008	I:\ACQUDATA\HPLC08\DATA\090424 \A0000223.D\	09/05/24 08:41
OLN-RU028-F009	R2408140-010	I:\ACQUDATA\HPLC08\DATA\090424 \A0000225.D\	09/05/24 09:45
OLN-RU020-F009	R2408140-011	I:\ACQUDATA\HPLC08\DATA\090424 \A0000226.D\	09/05/24 10:16
OLN-RU021-F009	R2408140-012	I:\ACQUDATA\HPLC08\DATA\090424 \A0000227.D\	09/05/24 10:48
OLN-FD002-D009	R2408140-013	I:\ACQUDATA\HPLC08\DATA\090424 \A0000228.D\	09/05/24 11:20

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 12-Month Sampling/300-082
Sample Matrix: Water

Service Request: R2408140
Date Analyzed: 09/04/24

Duplicate Lab Control Sample Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Units:mg/L
Basis:NA

		Lab Control Sample RQ2411191-03			Duplicate Lab Control Sample RQ2411191-04					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Acetic Acid	Organic Acids	22.5	20.0	113	22.6	20.0	113	80-130	<1	30
Butanoic Acid (Butyric Acid)	Organic Acids	20.8	20.0	104	24.0	20.0	120	86-128	14	30
Propionic Acid	Organic Acids	20.4	20.0	102	20.4	20.0	102	63-153	<1	30

Metals

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Form 2

Calibration Verifications

Metals by EPA 6010D

Workorder

R2408140

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 12-Month Sampling

09/24/2024

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Form 2 - Calibration Verifications

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 12-Month Sampling	**R2408140**	

Metals by EPA 6010D (P)

R-ICP-AES-07_853503		ICV			CCV			CCV			CCV			CCV		
Units ug/L	**Run Date**	09/09/24			09/09/24			09/09/24			09/09/24			09/09/24		
	Run Time	15:59			18:47			19:26			20:05			20:27		
Analyte		Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q
Arsenic		1.00	**100**		0.994	**99**		0.997	**100**		0.990	**99**		1.01	**101**	
Iron		4.92	**98**		4.94	**99**		4.92	**98**		4.90	**98**		5.00	**100**	
Manganese		0.732	**98**		0.730	**97**		0.729	**97**		0.725	**97**		0.740	**99**	

Q - %Recovery Flag * - %Recovery (%R) Outside Limits

QC ID	%R Limits	
CCV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn
ICV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn
ICV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn

Form 3

Blanks

Metals by EPA 6010D

Workorder

R2408140

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 12-Month Sampling

09/24/2024

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Form 3 - Blanks

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 12-Month Sampling	**R2408140**	

Metals by EPA 6010D (P)

R-ICP-AES-07_853503			ICB		CCB		CCB		CCB		CCB		
		Run Date	09/09/24		09/09/24		09/09/24		09/09/24		09/09/24		
		Run Time	16:02		18:50		19:29		20:08		20:31		
		Units	ug/L		ug/L		ug/L		ug/L		ug/L		
Analyte	DL	LOQ	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	
Arsenic	6	10	6	U	6	U	6	U	6	U	6	U	
Iron	70	100	70	U	70	U	70	U	70	U	70	U	
Manganese	4	10	4	U	4	U	4	U	4	U	4	U	

Q - Result Flag * - Result Outside Limits

Form 7

Laboratory Control Sample

Metals by EPA 6010D

Workorder

R2408140

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 12-Month Sampling

09/24/2024

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Form 7 - Laboratory Control Sample

Client Civil & Environmental Consultants, Incorporated (CEC)

Project Olean OU3 12-Month Sampling

Workorder **R2408140**

Metals by EPA 6010D (P)

RunID R-ICP-AES-07-853503

R-ICP-AES-07_853503			R2408140-LCS	
Spike Matrix Water	**Analysis Batch** ug/L		**Run Date** 09/09/24	
Result Units 09/05/24	**Prep Batch** 853503		**Run Time** 18:57	
Prep Method EPA 3005A/3010A	**Prep Date** 444305		**Prep Amt** 50 mL	

Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q
Arsenic	80-120	40	39	**98**	
Iron	80-120	1000	1010	**101**	
Manganese	80-120	500	485	**97**	

Form 9

ICP Serial Dilutions

Metals by EPA 6010D

Workorder

R2408140

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 12-Month Sampling

09/24/2024

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Form 9 - ICP Serial Dilutions

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 12-Month Sampling	**R2408140**	

Metals by EPA 6010D (P)

OLN-FD002-D009(SDL) (SD)	**Matrix**	**Analysis Date**	**Units**
RQ2411329-01	Water	09/09/24 19:45:00	ug/L

Analyte	Dilution	DL	LOQ	Sample Result	SD Result	Diff	Q	DL x 50
Arsenic, Dissolved	5	6	10	102	93	NC		300
Iron, Dissolved	5	70	100	60300	63200	5		3500
Manganese, Dissolved	5	4	10	4240	4420	4		200

NC - Sample and/or Serial Dilution result(s) do not meet criteria for evaluation. %Diff Not Calculated.

Form 10

Detection Limits

Metals by EPA 6010D

Workorder

R2408140

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 12-Month Sampling

09/24/2024

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Form 10 - Detection Limits

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 12-Month Sampling	**R2408140**	

Metals by EPA 6010D (P)

Analyte	CAS	Units	DL	LOQ	Prep Method	Leach Method
Arsenic, Dissolved	7440-38-2	ug/L	6	10	EPA 3005A/3010A	NA
Iron, Dissolved	7439-89-6	ug/L	70	100	EPA 3005A/3010A	NA
Manganese, Dissolved	7439-96-5	ug/L	4	10	EPA 3005A/3010A	NA

Form 12

Linear Ranges

Metals by EPA 6010D

Workorder

R2408140

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 12-Month Sampling

09/24/2024

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Form 12 - Linear Ranges

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 12-Month Sampling	**R2408140**	

Metals by EPA 6010D (P)

Analyte	Linear Range	Units
AG 328	2	mg/L
AL 237	500	mg/L
AS 188	4	mg/L
B 249	50	mg/L
BA 233	40	mg/L
BE 313	1	mg/L
CA 227	250	mg/L
CD 226	2	mg/L
CO 228	10	mg/L
CR 267	10	mg/L
CU 324	20	mg/L
FE 259	100	mg/L
K 766	100	mg/L
MG 279	500	mg/L
MN 257	10	mg/L
MO 202	10	mg/L
NA 589	250	mg/L
NI 231	8	mg/L
PB 220	10	mg/L
SB 206	10	mg/L
SE 196	10	mg/L
SI 252	20	mg/L
SN 189	20	mg/L
SR 421	10	mg/L
TI 337	10	mg/L
TL 191	4	mg/L
V 292	10	mg/L
ZN 206	10	mg/L

right solutions.
right partner.

Analysis Run Log

Metals by EPA 6010D

Workorder

R2408140

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 12-Month Sampling

09/24/2024

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Form 14 - Analysis Run Log

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 12-Month Sampling	**R2408140**	

Metals by EPA 6010D (P)

R-ICP-AES-07_853503	Instrument ID	Start Date	End Date
	R-ICP-AES-07	09/09/24	09/09/24

Time	Type	Sample ID	Dilution	Analytes
15:59	ICV	Initial Calibraton Verification	1	As,Fe,Mn
16:02	ICB	Initial Calibration Blank	1	As,Fe,Mn
18:47	CCV	Continuing Calibration Verification	1	As,Fe,Mn
18:50	CCB	Continuing Calibration Blank	1	As,Fe,Mn
18:54	MB	MB-R2408140-MB Method Blank	1	As,Fe,Mn
18:57	LCS	LCS-R2408140-LCS Lab Control Sample	1	As,Fe,Mn
19:00	SMPL	OLN-UA003-F009	1	As,Fe,Mn
19:03	SMPL	OLN-UA002-F009	1	As,Fe,Mn
19:07	SMPL	OLN-FB001-B009	1	As,Fe,Mn
19:10	SMPL	OLN-CW13A-F009	1	As,Fe,Mn
19:13	SMPL	OLV-CW013-F009	1	As,Fe,Mn
19:16	SMPL	OLN-EB001-E009	1	As,Fe,Mn
19:20	SMPL	OLN-FB002-B009	1	As,Fe,Mn
19:23	SMPL	OLN-18M-F009	1	As,Fe,Mn
19:26	CCV	Continuing Calibration Verification	1	As,Fe,Mn
19:29	CCB	Continuing Calibration Blank	1	As,Fe,Mn
19:32	SMPL	OLN-RU028-F009	1	As,Fe,Mn
19:36	SMPL	OLN-RU020-F009	1	As,Fe,Mn
19:39	SMPL	OLN-RU021-F009	1	As,Fe,Mn
19:42	SMPL	OLN-FD002-D009	1	As,Fe,Mn
19:45	SD	OLN-FD002-D009	5	As,Fe,Mn
20:05	CCV	Continuing Calibration Verification	1	As,Fe,Mn
20:08	CCB	Continuing Calibration Blank	1	As,Fe,Mn
20:27	CCV	Continuing Calibration Verification	1	As,Fe,Mn
20:31	CCB	Continuing Calibration Blank	1	As,Fe,Mn

General Chemistry

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R2408140-MB1		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	5.0	U	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	0.20	U	mg/L	0.20	0.04	1	09/14/24 15:50	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R2408140-MB2		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	5.0	U	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	0.20	U	mg/L	0.20	0.04	1	09/15/24 13:08	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R2408140-MB3		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	5.0	U	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	0.20	U	mg/L	0.20	0.04	1	09/15/24 17:30	

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QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 12-Month Sampling/300-082
Sample Matrix: Water

Service Request:R2408140
Date Collected:08/21/24
Date Received:08/23/24
Date Analyzed:09/06/24 - 09/14/24

Duplicate Matrix Spike Summary
General Chemistry Parameters

Sample Name: OLN-EB001-E009
Lab Code: R2408140-007

Units:mg/L
Basis:NA

			Matrix Spike				Duplicate Matrix Spike				
			R2408140-007MS				R2408140-007DMS				
Analyte Name	**Method**	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Chemical Oxygen Demand, Total	Hach 8000 (1979)	5.6	30.5	25.0	100	29.1	25.0	94	90-110	5	20
Sulfate	300.0	2.0 U	19.6	20.0	98	19.6	20.0	98	90-110	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 12-Month Sampling/300-082
Sample Matrix: Water

Service Request: R2408140
Date Analyzed: 09/06/24 - 09/14/24

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2408140-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chemical Oxygen Demand, Total	Hach 8000 (1979)	512	500	102	90-110
Sulfate	300.0	2.00	2.00	100	90-110

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 12-Month Sampling/300-082
Sample Matrix: Water

Service Request: R2408140
Date Analyzed: 09/06/24 - 09/15/24

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2408140-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chemical Oxygen Demand, Total	Hach 8000 (1979)	508	500	102	90-110
Sulfate	300.0	2.01	2.00	100	90-110

Client: Civil & Environmental Consultants, Incorporated (CEC)
Project: Olean OU3 12-Month Sampling/300-082
Sample Matrix: Water

Service Request: R2408140
Date Analyzed: 09/06/24 - 09/15/24

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2408140-LCS3

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chemical Oxygen Demand, Total	Hach 8000 (1979)	51.1	50.0	102	90-110
Sulfate	300.0	2.01	2.00	101	90-110

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408140
Project: Olean OU3 12-Month Sampling/300-082

Continuing Calibration Blank (CCB) Summary

Chemical Oxygen Demand, Total

Analysis Method: Hach 8000 (1979) **Units:**mg/L

	Analysis Lot	Lab Code	Date Analyzed	MRL	MDL	Result	Q
CCB1	853294	RQ2411296-02	09/06/24 14:00	5.0	3.8	5.0	U
CCB2	853294	RQ2411296-06	09/06/24 14:00	5.0	3.8	5.0	U
CCB3	853294	RQ2411296-12	09/06/24 14:00	5.0	3.8	5.0	U
CCB4	853295	RQ2411298-02	09/06/24 14:00	5.0	3.8	5.0	U
CCB5	853295	RQ2411298-08	09/06/24 14:00	5.0	3.8	5.0	U
CCB6	853296	RQ2411300-02	09/06/24 14:00	5.0	3.8	5.0	U
CCB7	853296	RQ2411300-06	09/06/24 14:00	5.0	3.8	5.0	U
CCB8	853296	RQ2411300-12	09/06/24 14:00	5.0	3.8	5.0	U
CCB9	853296	RQ2411300-16	09/06/24 14:00	5.0	3.8	5.0	U

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408140
Project: Olean OU3 12-Month Sampling/300-082

Continuing Calibration Blank (CCB) Summary
Sulfate

Analysis Method: 300.0 **Units:**mg/L

	Analysis Lot	Lab Code	Date Analyzed	MRL	MDL	Result	Q
CCB1	854090	RQ2411612-02	09/14/24 15:50	0.20	0.04	0.20	U
CCB2	854090	RQ2411612-06	09/14/24 17:05	0.20	0.04	0.20	U
CCB3	854090	RQ2411612-07	09/14/24 18:45	0.20	0.04	0.20	U
CCB4	854129	RQ2411716-01	09/15/24 13:08	0.20	0.04	0.20	U
CCB5	854129	RQ2411716-06	09/15/24 14:23	0.20	0.04	0.20	U
CCB6	854129	RQ2411716-07	09/15/24 15:26	0.20	0.04	0.20	U
CCB7	854121	RQ2411717-02	09/15/24 17:30	0.20	0.04	0.20	U
CCB8	854121	RQ2411717-06	09/15/24 18:50	0.20	0.04	0.20	U
CCB9	854121	RQ2411717-07	09/15/24 20:38	0.20	0.04	0.20	U

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408140
Project: Olean OU3 12-Month Sampling/300-082

Continuing Calibration Verification (CCV) Summary

Chemical Oxygen Demand, Total

Analysis Method: Hach 8000 (1979) **Units:** mg/L

	Analysis Lot	Lab Code	Date Analyzed	True Value	Measured Value	Percent Recovery	Acceptance Limits
CCV1	853294	RQ2411296-01	09/06/24 14:00	500	512	102	90-110
CCV2	853294	RQ2411296-05	09/06/24 14:00	500	510	102	90-110
CCV3	853294	RQ2411296-11	09/06/24 14:00	500	508	102	90-110
CCV4	853295	RQ2411298-01	09/06/24 14:00	500	508	102	90-110
CCV5	853295	RQ2411298-07	09/06/24 14:00	500	510	102	90-110
CCV6	853296	RQ2411300-01	09/06/24 14:00	50.0	51.1	102	90-110
CCV7	853296	RQ2411300-05	09/06/24 14:00	50.0	51.4	103	90-110
CCV8	853296	RQ2411300-11	09/06/24 14:00	50.0	47.3	95	90-110
CCV9	853296	RQ2411300-15	09/06/24 14:00	50.0	52.1	104	90-110

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408140
Project: Olean OU3 12-Month Sampling/300-082

Continuing Calibration Verification (CCV) Summary

Sulfate

Analysis Method: 300.0 **Units:** mg/L

	Analysis Lot	Lab Code	Date Analyzed	True Value	Measured Value	Percent Recovery	Acceptance Limits
CCV1	854090	RQ2411612-01	09/14/24 15:44	4.00	4.03	101	90-110
CCV2	854090	RQ2411612-05	09/14/24 16:59	4.00	4.02	101	90-110
CCV3	854090	RQ2411612-08	09/14/24 18:39	4.00	3.94	98	90-110
CCV4	854129	RQ2411716-02	09/15/24 13:02	4.00	3.95	99	90-110
CCV5	854129	RQ2411716-05	09/15/24 14:17	4.00	3.99	100	90-110
CCV6	854129	RQ2411716-08	09/15/24 15:20	4.00	4.01	100	90-110
CCV7	854121	RQ2411717-01	09/15/24 17:24	4.00	4.05	101	90-110
CCV8	854121	RQ2411717-05	09/15/24 18:44	4.00	4.01	100	90-110
CCV9	854121	RQ2411717-08	09/15/24 20:31	4.00	3.97	99	90-110

Raw Data

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Volatile Organic Compounds by GC/MS

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-TB001-T009	**Units:**	ug/L
Lab Code:	R2408140-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/30/24 13:09	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	08/30/24 13:09	
Vinyl Chloride	1.0 U	1.0	0.20	1	08/30/24 13:09	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	08/30/24 13:09	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	08/30/24 13:09	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	08/30/24 13:09	
Dibromofluoromethane	99	80 - 116	08/30/24 13:09	
Toluene-d8	102	87 - 121	08/30/24 13:09	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 13:37
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-UA003-F009	**Units:**	ug/L
Lab Code:	R2408140-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0	U	1.0	0.21	1	08/30/24 14:43	
Trichloroethene (TCE)	**0.34**	**J**	1.0	0.20	1	08/30/24 14:43	
Vinyl Chloride	1.0	U	1.0	0.20	1	08/30/24 14:43	
cis-1,2-Dichloroethene	**0.68**	**J**	1.0	0.23	1	08/30/24 14:43	
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	1	08/30/24 14:43	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	08/30/24 14:43	
Dibromofluoromethane	99	80 - 116	08/30/24 14:43	
Toluene-d8	102	87 - 121	08/30/24 14:43	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 15:25
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-UA002-F009	**Units:**	ug/L
Lab Code:	R2408140-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/30/24 15:07	
Trichloroethene (TCE)	**2.4**	1.0	0.20	1	08/30/24 15:07	
Vinyl Chloride	**0.60 J**	1.0	0.20	1	08/30/24 15:07	
cis-1,2-Dichloroethene	**3.9**	1.0	0.23	1	08/30/24 15:07	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	08/30/24 15:07	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	08/30/24 15:07	
Dibromofluoromethane	99	80 - 116	08/30/24 15:07	
Toluene-d8	102	87 - 121	08/30/24 15:07	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 16:25
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FB001-B009	**Units:**	ug/L
Lab Code:	R2408140-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/30/24 13:32	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	08/30/24 13:32	
Vinyl Chloride	1.0 U	1.0	0.20	1	08/30/24 13:32	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	08/30/24 13:32	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	08/30/24 13:32	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	08/30/24 13:32	
Dibromofluoromethane	100	80 - 116	08/30/24 13:32	
Toluene-d8	104	87 - 121	08/30/24 13:32	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 08:33
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-CW13A-F009	**Units:**	ug/L
Lab Code:	R2408140-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/30/24 15:30	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	08/30/24 15:30	
Vinyl Chloride	1.0 U	1.0	0.20	1	08/30/24 15:30	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	08/30/24 15:30	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	08/30/24 15:30	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	08/30/24 15:30	
Dibromofluoromethane	101	80 - 116	08/30/24 15:30	
Toluene-d8	105	87 - 121	08/30/24 15:30	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 09:41
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLV-CW013-F009	**Units:**	ug/L
Lab Code:	R2408140-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0	U	1.0	0.21	1	08/30/24 15:54	
Trichloroethene (TCE)	**1.7**		1.0	0.20	1	08/30/24 15:54	
Vinyl Chloride	1.0	U	1.0	0.20	1	08/30/24 15:54	
cis-1,2-Dichloroethene	**0.87**	**J**	1.0	0.23	1	08/30/24 15:54	
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	1	08/30/24 15:54	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	08/30/24 15:54	
Dibromofluoromethane	98	80 - 116	08/30/24 15:54	
Toluene-d8	101	87 - 121	08/30/24 15:54	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 10:15
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-EB001-E009	**Units:**	ug/L
Lab Code:	R2408140-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/30/24 13:56	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	08/30/24 13:56	
Vinyl Chloride	1.0 U	1.0	0.20	1	08/30/24 13:56	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	08/30/24 13:56	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	08/30/24 13:56	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	08/30/24 13:56	
Dibromofluoromethane	98	80 - 116	08/30/24 13:56	
Toluene-d8	101	87 - 121	08/30/24 13:56	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 10:35
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FB002-B009	**Units:**	ug/L
Lab Code:	R2408140-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/30/24 14:19	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	08/30/24 14:19	
Vinyl Chloride	1.0 U	1.0	0.20	1	08/30/24 14:19	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	08/30/24 14:19	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	08/30/24 14:19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	08/30/24 14:19	
Dibromofluoromethane	100	80 - 116	08/30/24 14:19	
Toluene-d8	103	87 - 121	08/30/24 14:19	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 11:04
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-18M-F009	**Units:**	ug/L
Lab Code:	R2408140-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0	U	1.0	0.21	1	08/30/24 16:18	
Trichloroethene (TCE)	**12**		1.0	0.20	1	08/30/24 16:18	
Vinyl Chloride	1.0	U	1.0	0.20	1	08/30/24 16:18	
cis-1,2-Dichloroethene	**0.47**	**J**	1.0	0.23	1	08/30/24 16:18	
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	1	08/30/24 16:18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	08/30/24 16:18	
Dibromofluoromethane	99	80 - 116	08/30/24 16:18	
Toluene-d8	102	87 - 121	08/30/24 16:18	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 13:06
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU028-F009	**Units:**	ug/L
Lab Code:	R2408140-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	**18**	1.0	0.21	1	08/30/24 16:42	
Trichloroethene (TCE)	**16**	1.0	0.20	1	08/30/24 16:42	
Vinyl Chloride	1.0 U	1.0	0.20	1	08/30/24 16:42	
cis-1,2-Dichloroethene	**2.1**	1.0	0.23	1	08/30/24 16:42	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	08/30/24 16:42	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	08/30/24 16:42	
Dibromofluoromethane	97	80 - 116	08/30/24 16:42	
Toluene-d8	104	87 - 121	08/30/24 16:42	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 15:47
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU020-F009	**Units:**	ug/L
Lab Code:	R2408140-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	2.5 U	2.5	0.53	2.5	08/30/24 17:30	
Trichloroethene (TCE)	**100**	2.5	0.50	2.5	08/30/24 17:30	
Vinyl Chloride	2.5 U	2.5	0.50	2.5	08/30/24 17:30	
cis-1,2-Dichloroethene	**340**	2.5	0.58	2.5	08/30/24 17:30	
trans-1,2-Dichloroethene	**2.4 J**	2.5	0.50	2.5	08/30/24 17:30	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	08/30/24 17:30	
Dibromofluoromethane	106	80 - 116	08/30/24 17:30	
Toluene-d8	108	87 - 121	08/30/24 17:30	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 08:31
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU021-F009	**Units:**	ug/L
Lab Code:	R2408140-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	**3.1**	1.0	0.21	1	08/30/24 17:06	
Trichloroethene (TCE)	**2.5**	1.0	0.20	1	08/30/24 17:06	
Vinyl Chloride	**11**	1.0	0.20	1	08/30/24 17:06	
cis-1,2-Dichloroethene	**20**	1.0	0.23	1	08/30/24 17:06	
trans-1,2-Dichloroethene	**1.1**	1.0	0.20	1	08/30/24 17:06	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	08/30/24 17:06	
Dibromofluoromethane	100	80 - 116	08/30/24 17:06	
Toluene-d8	104	87 - 121	08/30/24 17:06	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 22:00
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FD002-D009	**Units:**	ug/L
Lab Code:	R2408140-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	**3.4**	1.0	0.21	1	08/31/24 14:02	
Trichloroethene (TCE)	**3.0**	1.0	0.20	1	08/31/24 14:02	
Vinyl Chloride	**12**	1.0	0.20	1	08/31/24 14:02	
cis-1,2-Dichloroethene	**20**	1.0	0.23	1	08/31/24 14:02	
trans-1,2-Dichloroethene	**1.1**	1.0	0.20	1	08/31/24 14:02	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	08/31/24 14:02	
Dibromofluoromethane	103	80 - 116	08/31/24 14:02	
Toluene-d8	105	87 - 121	08/31/24 14:02	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-TB003-T009	**Units:**	ug/L
Lab Code:	R2408140-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	08/30/24 12:45	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	08/30/24 12:45	
Vinyl Chloride	1.0 U	1.0	0.20	1	08/30/24 12:45	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	08/30/24 12:45	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	08/30/24 12:45	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	08/30/24 12:45	
Dibromofluoromethane	100	80 - 116	08/30/24 12:45	
Toluene-d8	102	87 - 121	08/30/24 12:45	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5400.D
Acq On : 30 Aug 2024 01:09 pm
Operator : F.NAEGLER
Sample : R2408140-001
Misc : CEC 26473 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 30 14:39:09 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

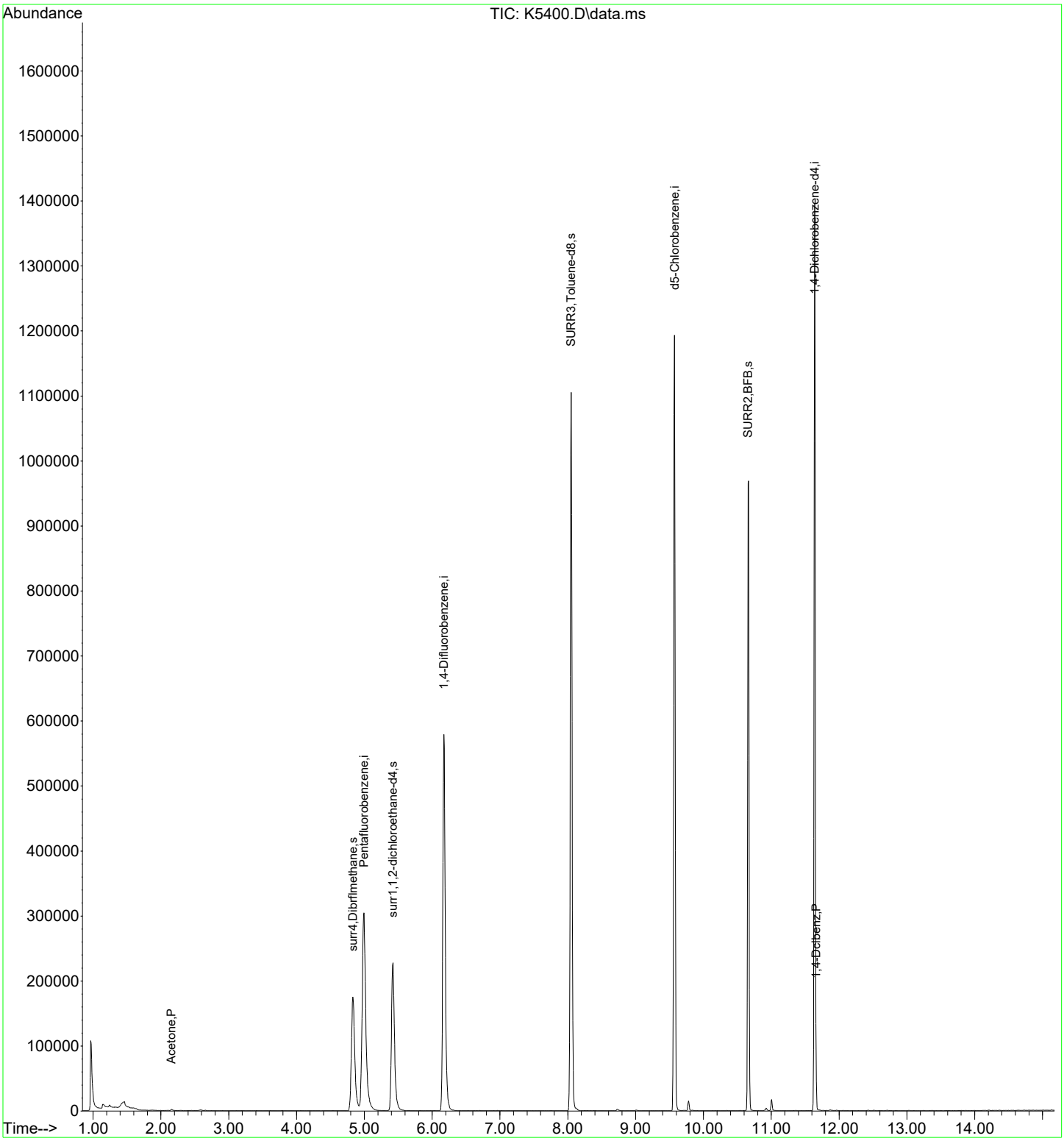
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.995	168	364468	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.172	114	604047	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.573	117	538917	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	247597	50.00	ug/L	# 0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.830	113	187123	49.66	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 99.32%			
47) surr1,1,2-dichloroetha...	5.422	65	263236	51.11	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.22%			
64) SURR3,Toluene-d8	8.049	98	707203	51.15	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.30%			
69) SURR2,BFB	10.659	95	267974	49.29	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 98.58%			
Target Compounds						Qvalue
16) Acetone	2.154	43	1833	0.628	ug/L	100
105) 1,4-Dclbenz	11.658	146	10407	1.363	ug/L	96

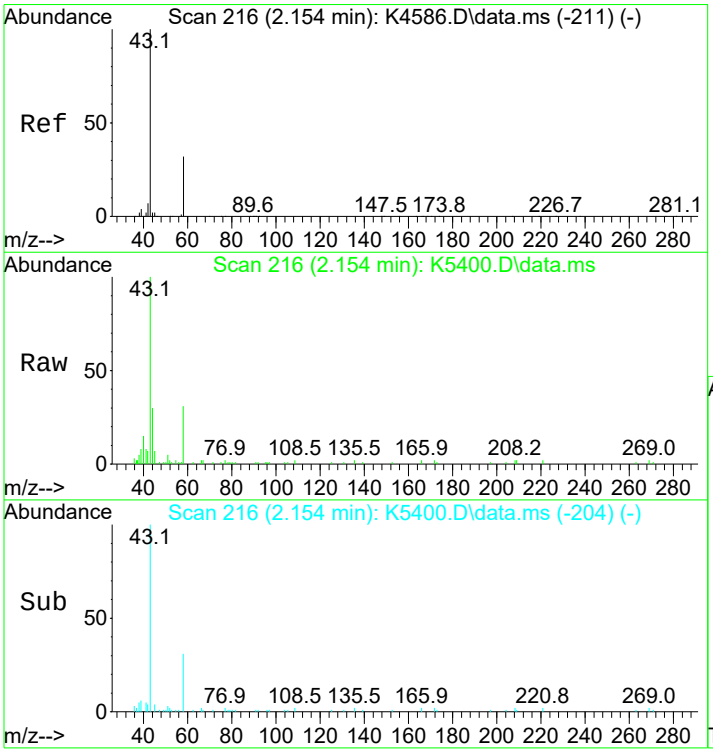
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5400.D
Acq On : 30 Aug 2024 01:09 pm
Operator : F.NAEGLER
Sample : R2408140-001
Misc : CEC 26473 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 30 14:39:09 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

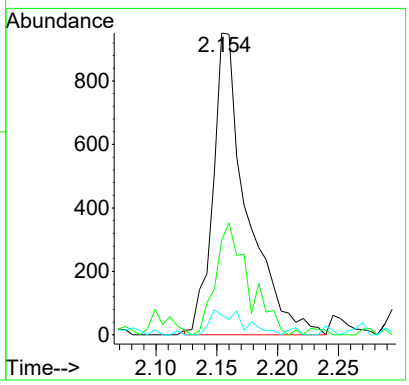


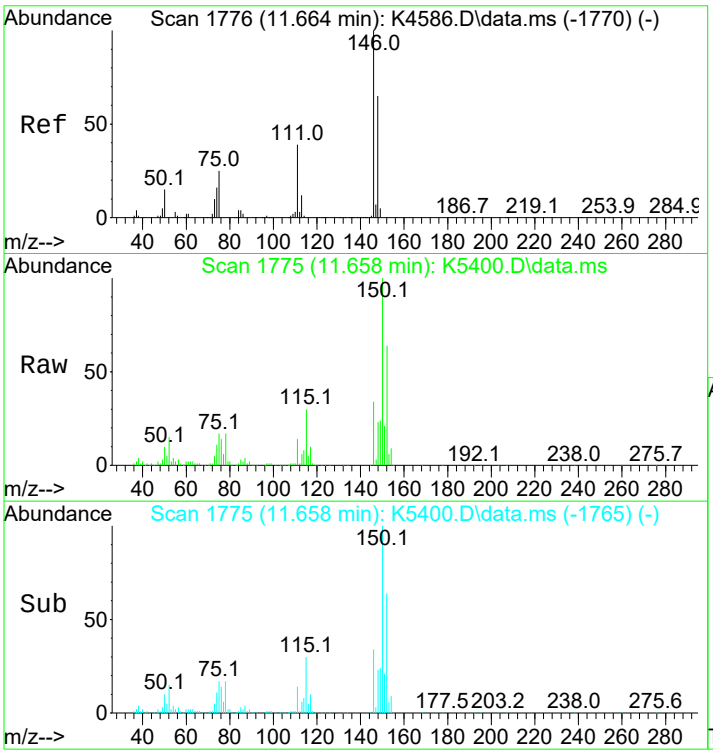


#16
Acetone
Concen: 0.63 ug/L
RT: 2.154 min Scan# 216
Delta R.T. 0.000 min
Lab File: K5400.D
Acq: 30 Aug 2024 01:09 pm

Tgt Ion: 43 Resp: 1833

Ion	Ratio	Lower	Upper
43	100		
58	31.4	11.5	51.5
42	6.6	0.0	27.3

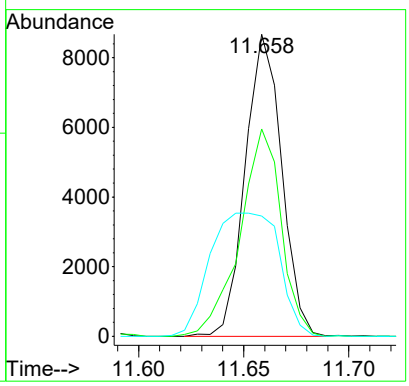




#105
1,4-Dclbenz
Concen: 1.36 ug/L
RT: 11.658 min Scan# 1775
Delta R.T. -0.006 min
Lab File: K5400.D
Acq: 30 Aug 2024 01:09 pm

Tgt Ion:146 Resp: 10407

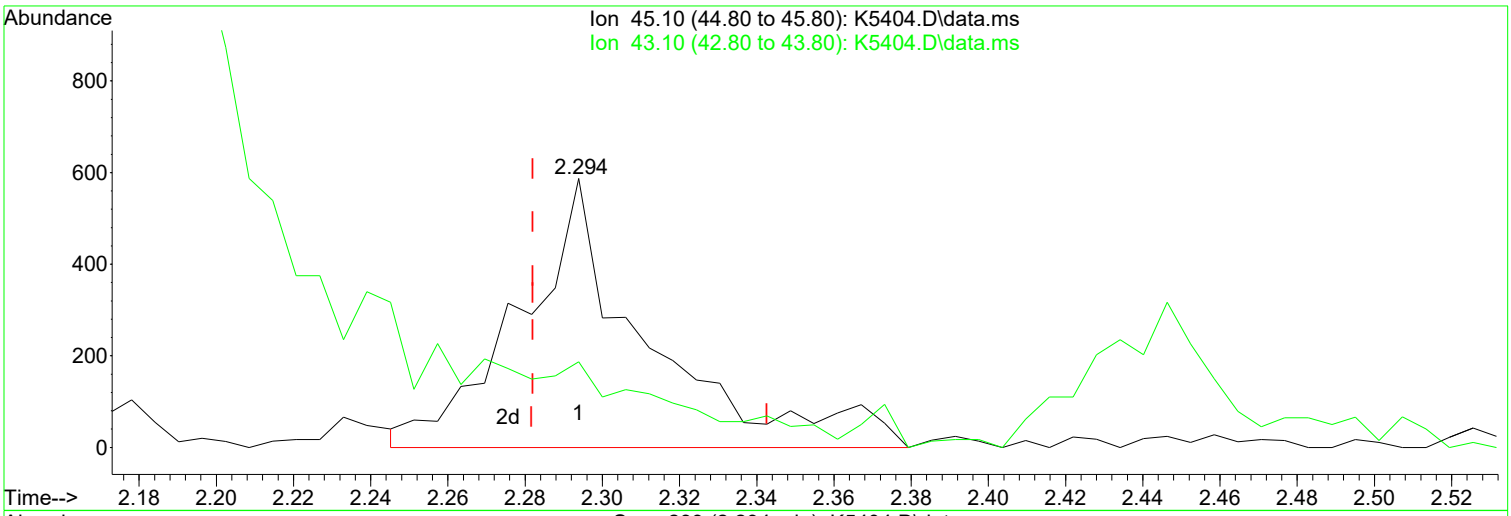
Ion	Ratio	Lower	Upper
146	100		
148	68.6	44.8	84.8
111	39.8	18.8	58.8

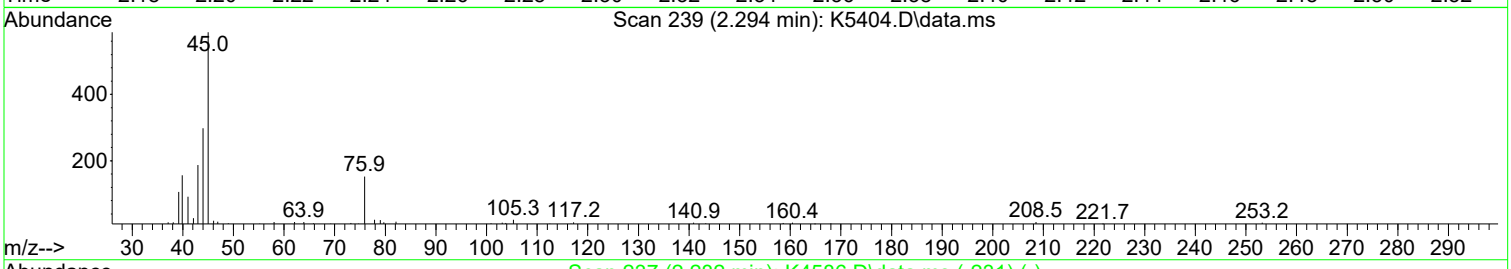


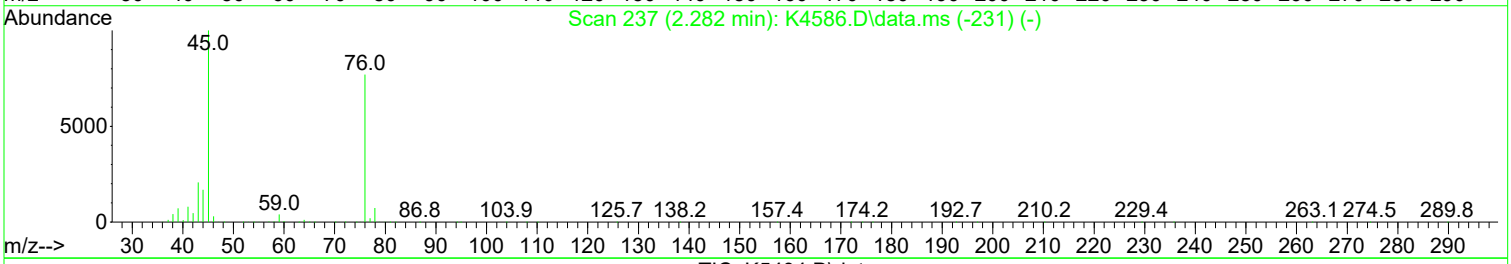
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5404.D
Acq On : 30 Aug 2024 02:43 pm
Operator : F.NAEGLER
Sample : R2408140-002
Misc : CEC 26473 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 30 16:17:19 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5404.D\data.ms

(17) 2-Propanol

2.294min (+ 0.012) 2.36 ug/L m

response 1335

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	21.40	31.86
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

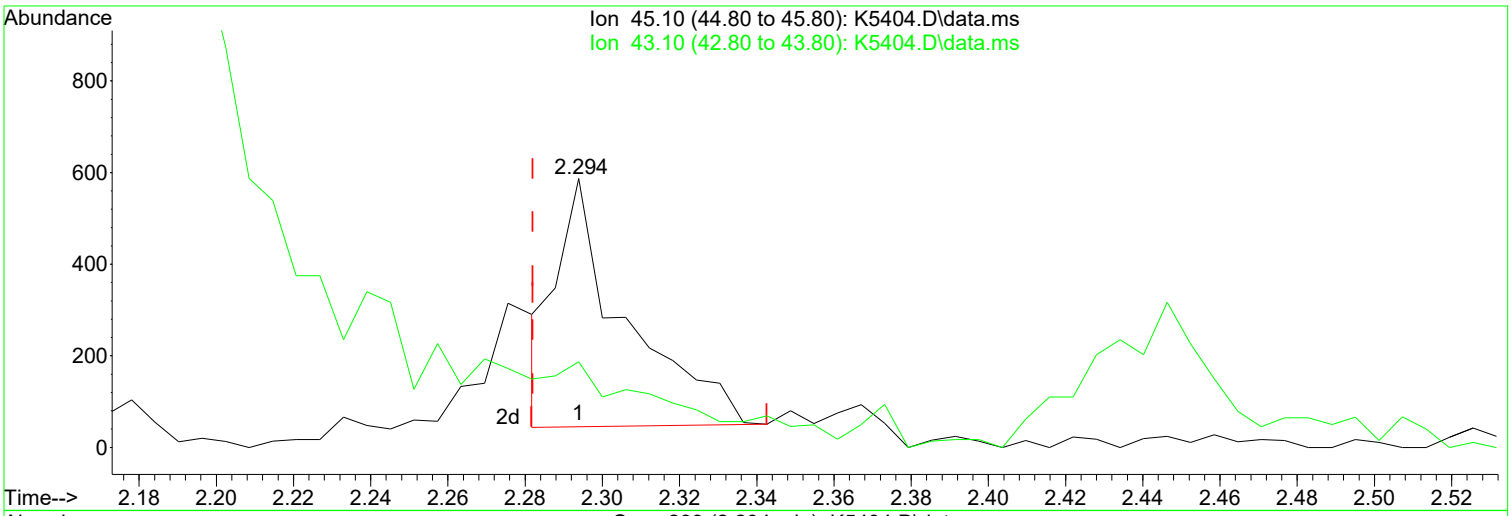
Poor integration.

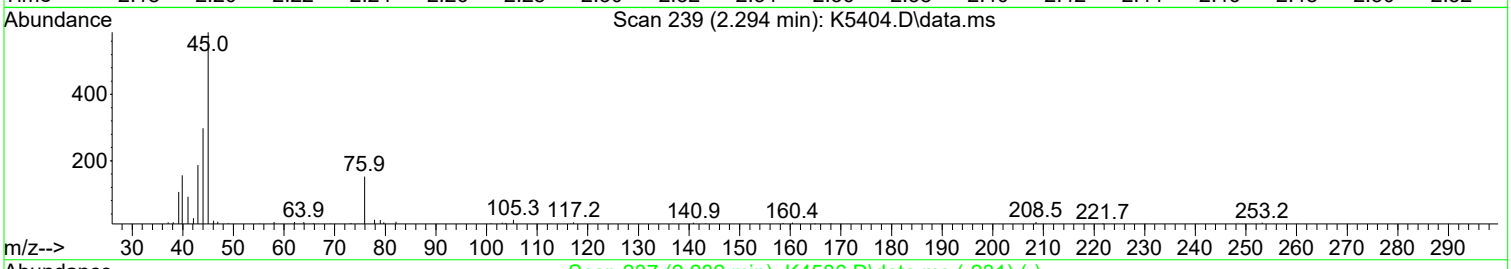
09/03/24

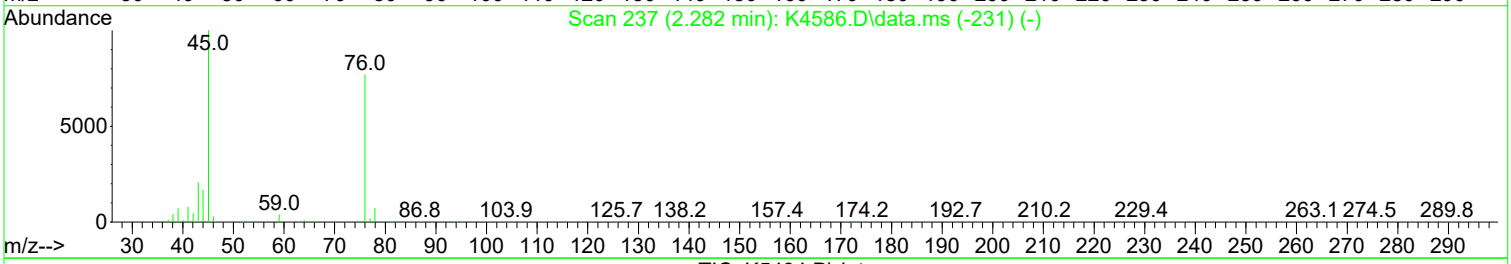
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5404.D
Acq On : 30 Aug 2024 02:43 pm
Operator : F.NAEGLER
Sample : R2408140-002
Misc : CEC 26473 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 30 16:17:19 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5404.D\data.ms

(17) 2-Propanol

2.294min (+ 0.012) 1.18 ug/L

response 668

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	21.40	31.86
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

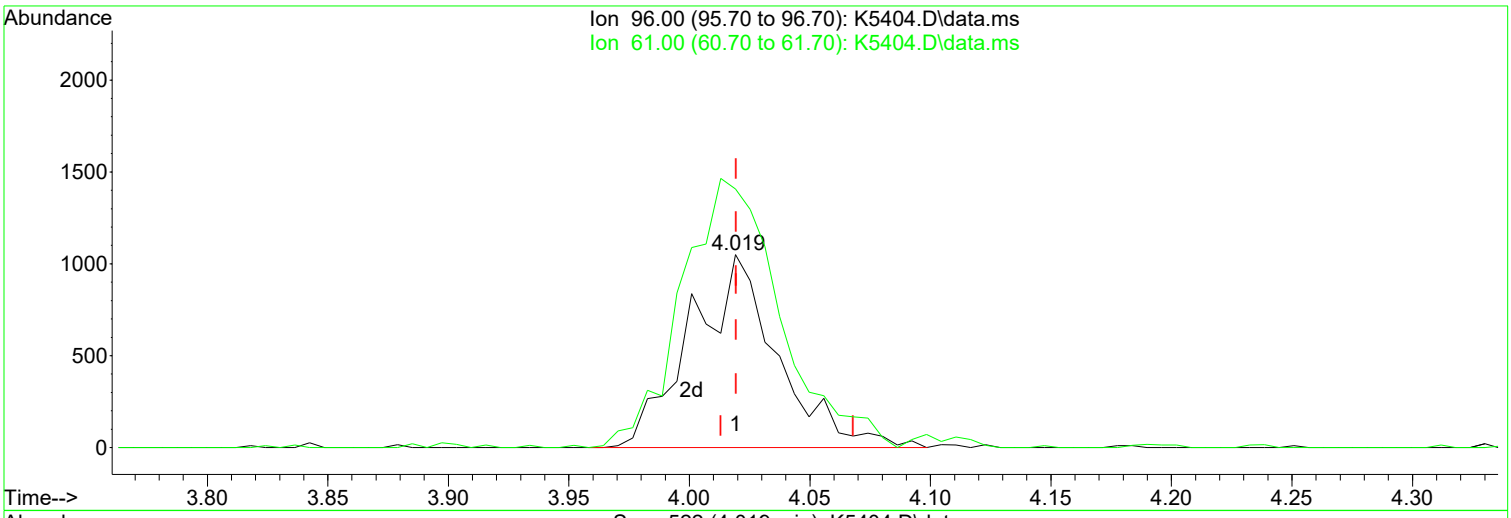
Before

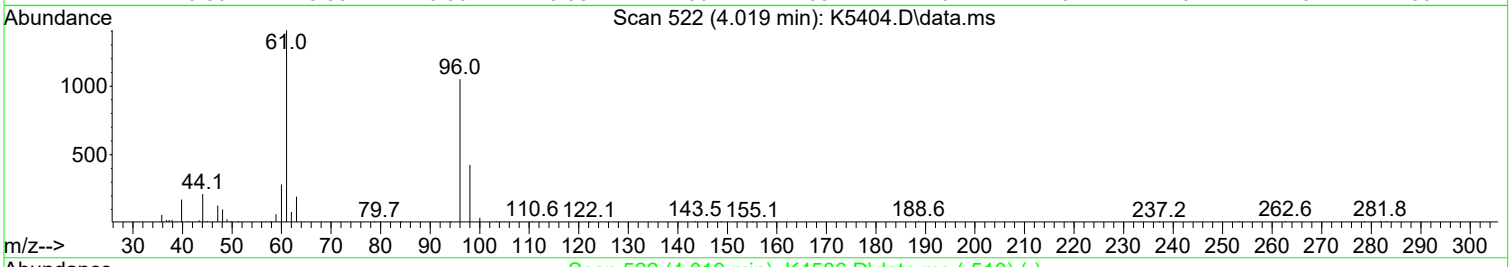
09/03/24

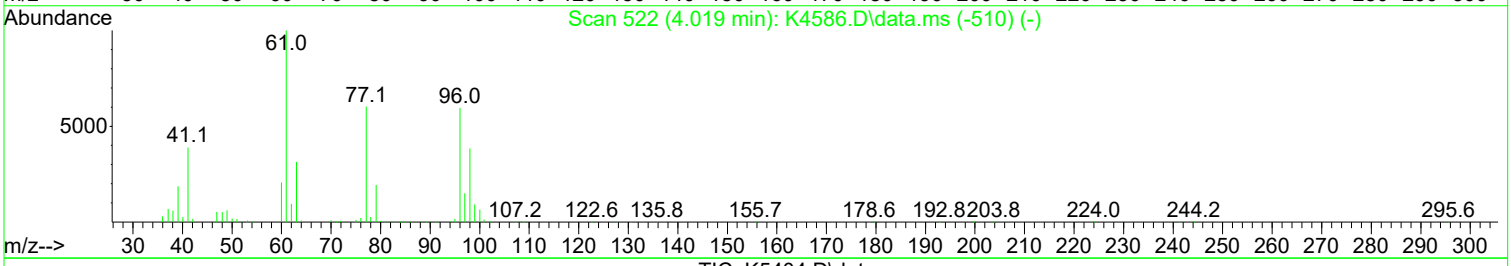
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5404.D
Acq On : 30 Aug 2024 02:43 pm
Operator : F.NAEGLER
Sample : R2408140-002
Misc : CEC 26473 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 30 16:17:19 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5404.D\data.ms

(33) cis-1,2-Dichloroethene (P)

4.019min (-0.000) 0.68 ug/L m

response 2632

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	167.90	134.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

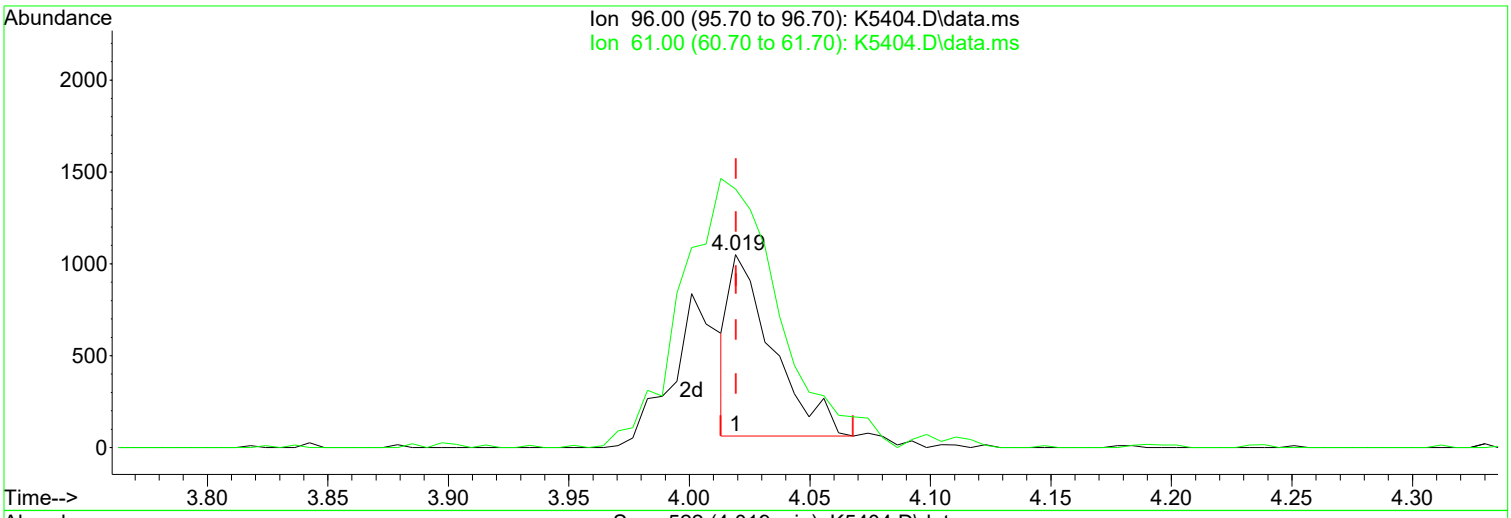
Poor integration.

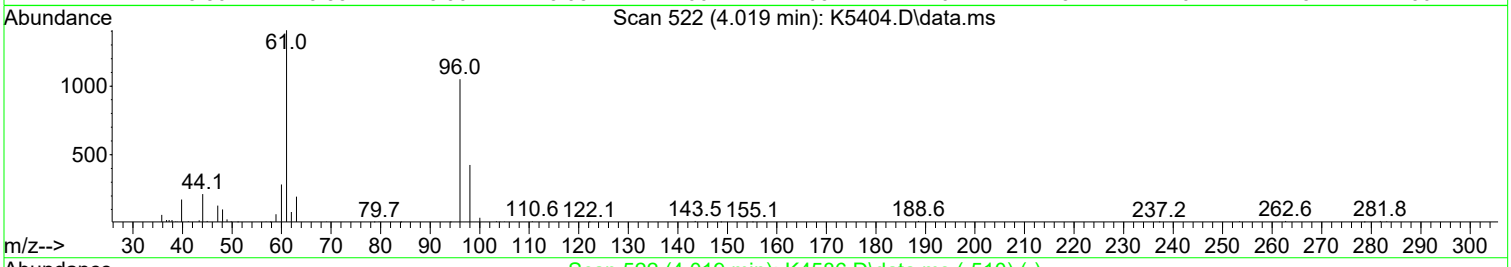
09/03/24

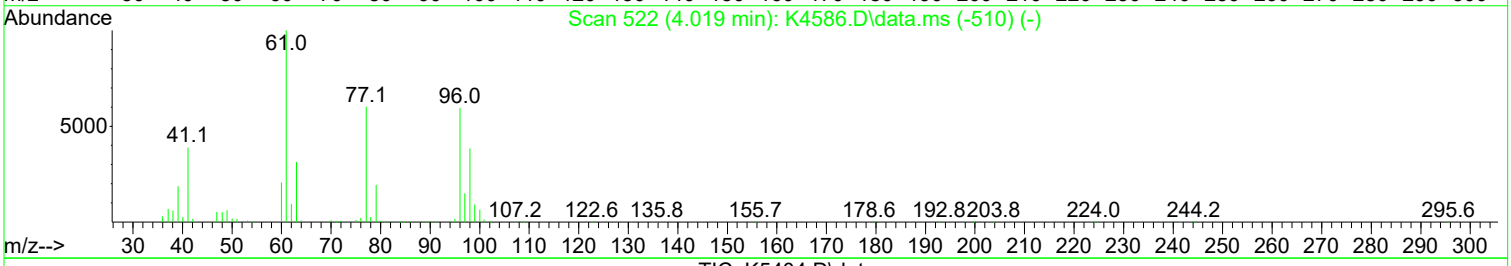
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5404.D
Acq On : 30 Aug 2024 02:43 pm
Operator : F.NAEGLER
Sample : R2408140-002
Misc : CEC 26473 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 30 16:17:19 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5404.D\data.ms

(33) cis-1,2-Dichloroethene (P)

4.019min (-0.000) 0.31 ug/L

response 1220

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	167.90	134.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/03/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5404.D
Acq On : 30 Aug 2024 02:43 pm
Operator : F.NAEGLER
Sample : R2408140-002
Misc : CEC 26473 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 30 16:17:19 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

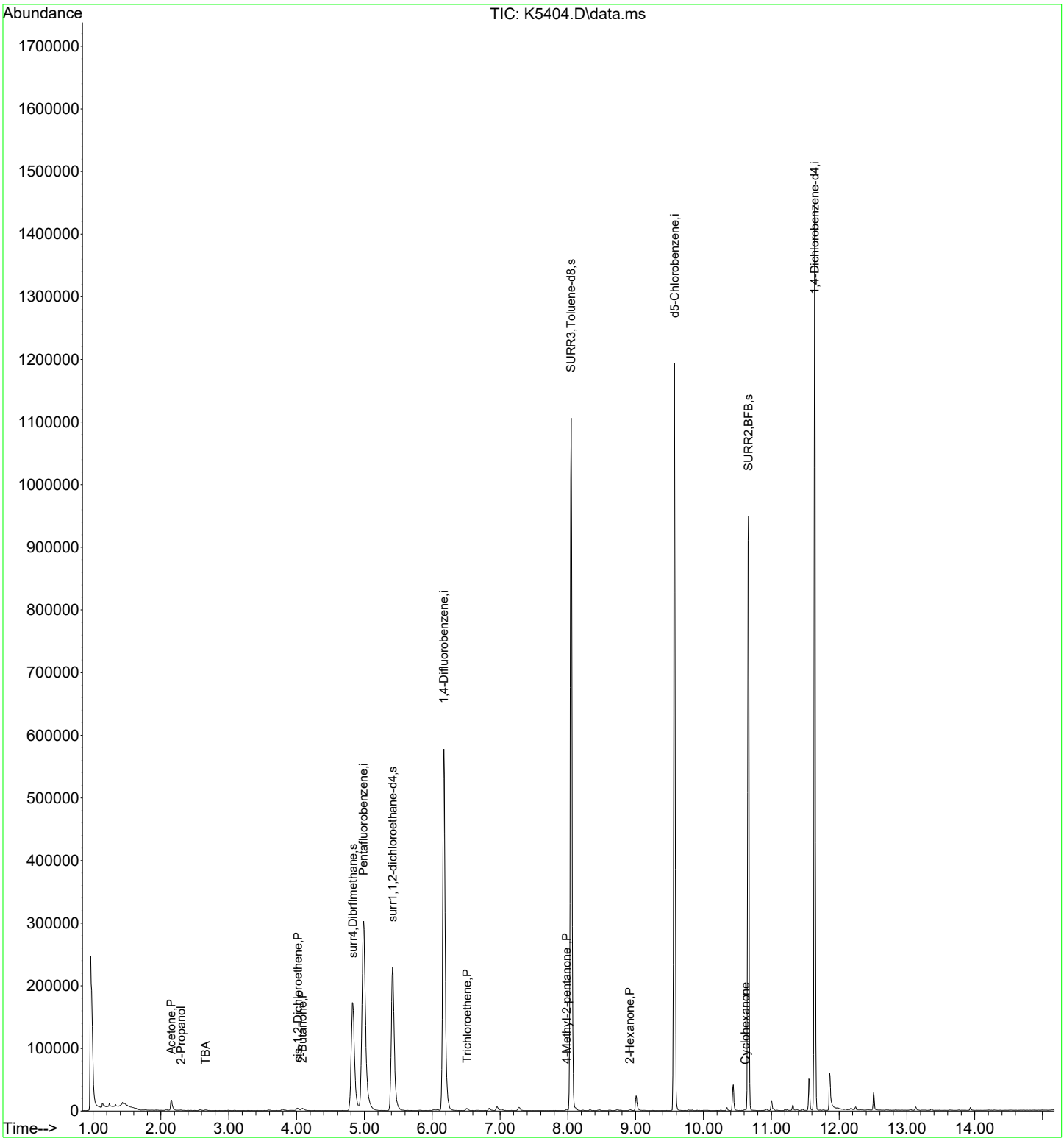
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.989	168	358627	50.00	ug/L		0.00
42) 1,4-Difluorobenzene	6.171	114	605850	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.573	117	536083	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	252592	50.00	ug/L	#	0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.830	113	187787	49.69	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 99.38%				
47) surr1,1,2-dichloroetha...	5.415	65	265491	51.40	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.80%				
64) SURR3,Toluene-d8	8.049	98	705537	50.87	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.74%				
69) SURR2,BFB	10.664	95	263152	48.26	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 96.52%				
Target Compounds							Qvalue
16) Acetone	2.154	43	20981	7.309	ug/L		96
17) 2-Propanol	2.294	45	1335m	2.358	ug/L		
23) TBA	2.660	59	1653	1.575	ug/L		95
33) cis-1,2-Dichloroethene	4.019	96	2632m	0.678	ug/L		
34) 2-Butanone	4.086	43	7062	2.062	ug/L		94
53) Trichloroethene	6.513	130	1289	0.335	ug/L		91
63) 4-Methyl-2-pentanone	7.982	43	1451	0.236	ug/L		83
72) 2-Hexanone	8.915	43	1571	0.332	ug/L		89
88) Cyclohexanone	10.616	55	625	0.533	ug/L	#	70

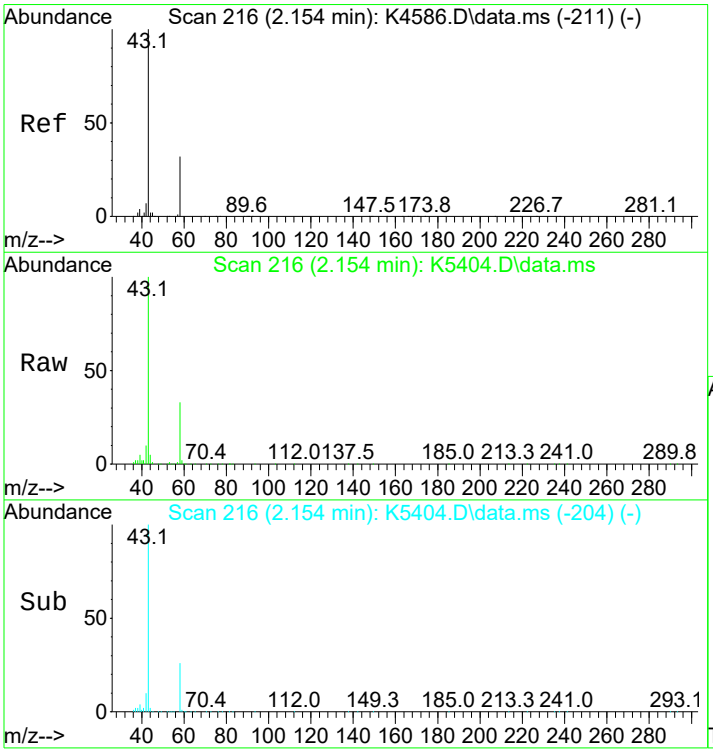
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5404.D
Acq On : 30 Aug 2024 02:43 pm
Operator : F.NAEGLER
Sample : R2408140-002
Misc : CEC 26473 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 30 16:17:19 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

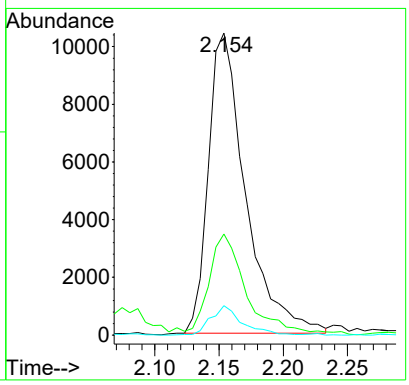


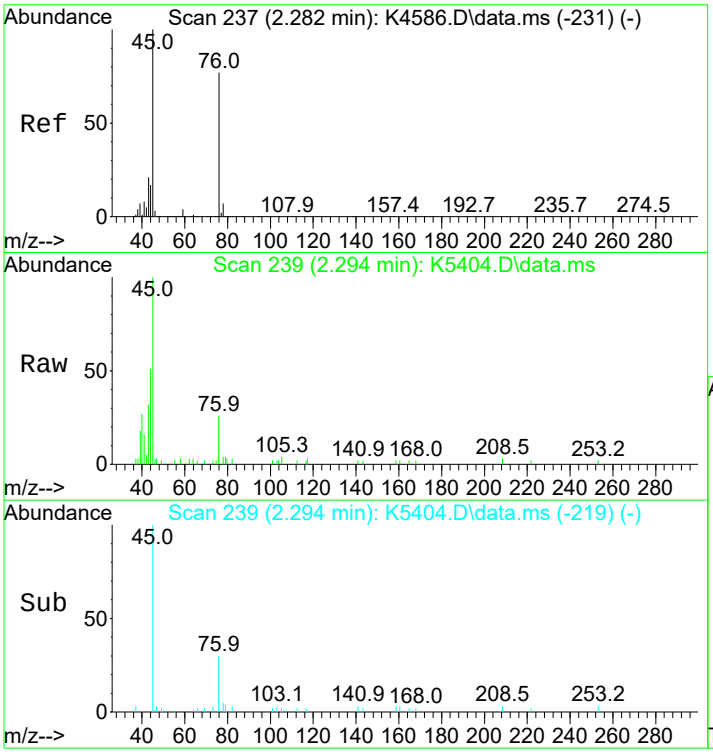


#16
Acetone
Concen: 7.31 ug/L
RT: 2.154 min Scan# 216
Delta R.T. -0.000 min
Lab File: K5404.D
Acq: 30 Aug 2024 02:43 pm

Tgt Ion: 43 Resp: 20981

Ion	Ratio	Lower	Upper
43	100		
58	33.4	11.5	51.5
42	9.7	0.0	27.3

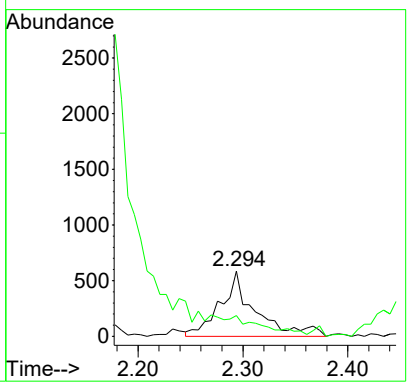


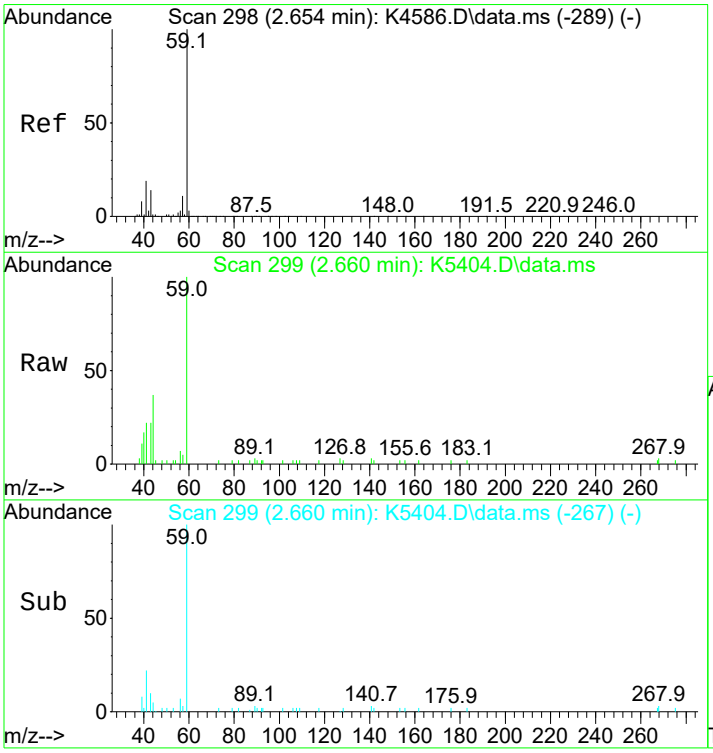


#17
2-Propanol
Concen: 2.36 ug/L m
RT: 2.294 min Scan# 239
Delta R.T. 0.012 min
Lab File: K5404.D
Acq: 30 Aug 2024 02:43 pm

Tgt Ion: 45 Resp: 1335

Ion	Ratio	Lower	Upper
45	100		
43	31.9	1.4	41.4

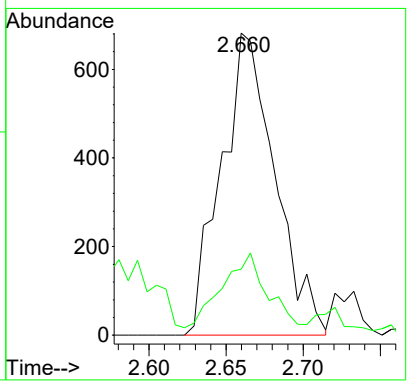


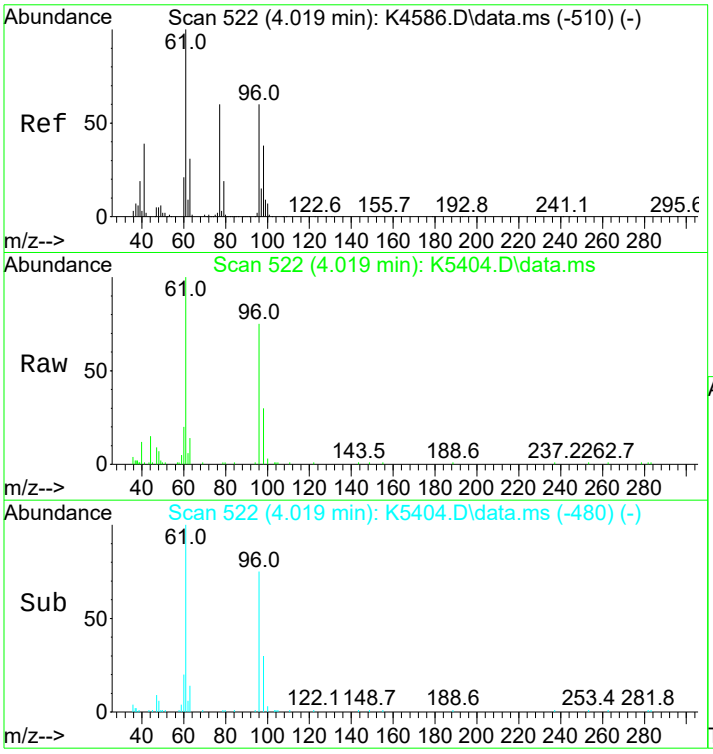


#23
TBA
Concen: 1.58 ug/L
RT: 2.660 min Scan# 299
Delta R.T. 0.006 min
Lab File: K5404.D
Acq: 30 Aug 2024 02:43 pm

Tgt Ion: 59 Resp: 1653

Ion	Ratio	Lower	Upper
59	100		
41	21.8	0.0	39.7

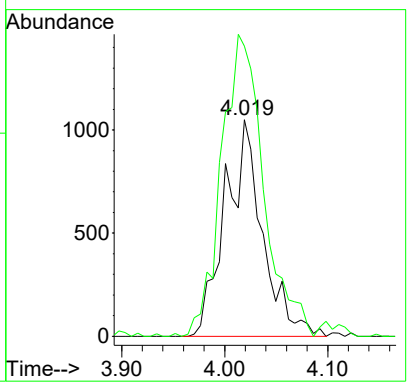


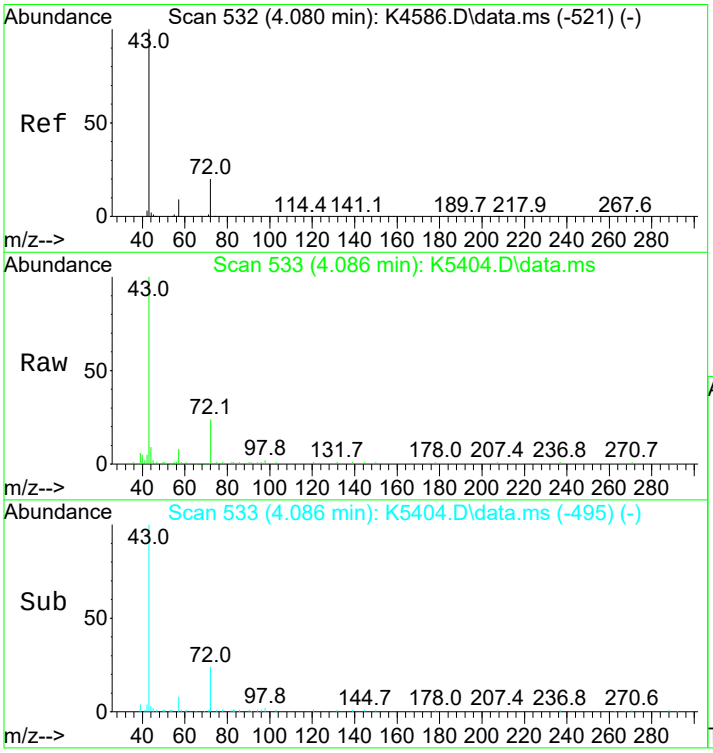


#33
cis-1,2-Dichloroethene
Concen: 0.68 ug/L m
RT: 4.019 min Scan# 522
Delta R.T. -0.000 min
Lab File: K5404.D
Acq: 30 Aug 2024 02:43 pm

Tgt Ion: 96 Resp: 2632

Ion	Ratio	Lower	Upper
96	100		
61	134.0	147.9	187.9#

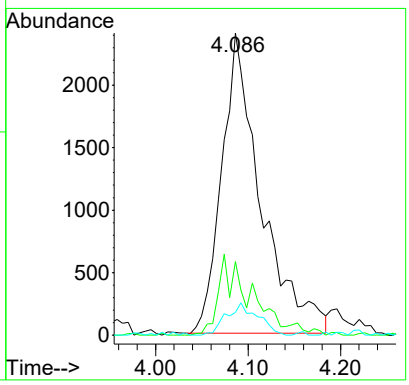


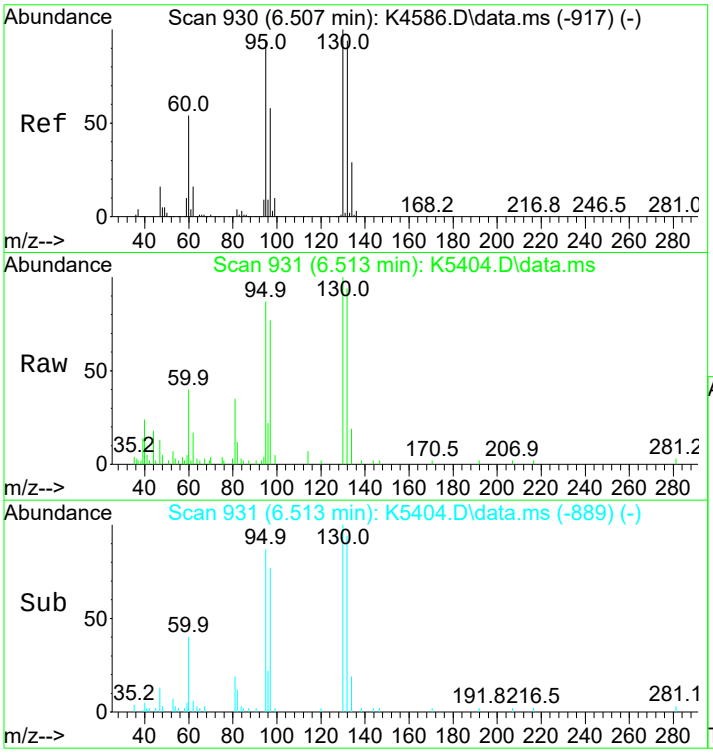


#34
2-Butanone
Concen: 2.06 ug/L
RT: 4.086 min Scan# 533
Delta R.T. 0.006 min
Lab File: K5404.D
Acq: 30 Aug 2024 02:43 pm

Tgt Ion: 43 Resp: 7062

Ion	Ratio	Lower	Upper
43	100		
72	24.3	1.2	41.2
57	7.5	0.0	29.2

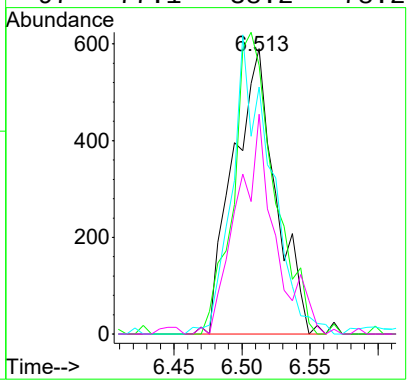


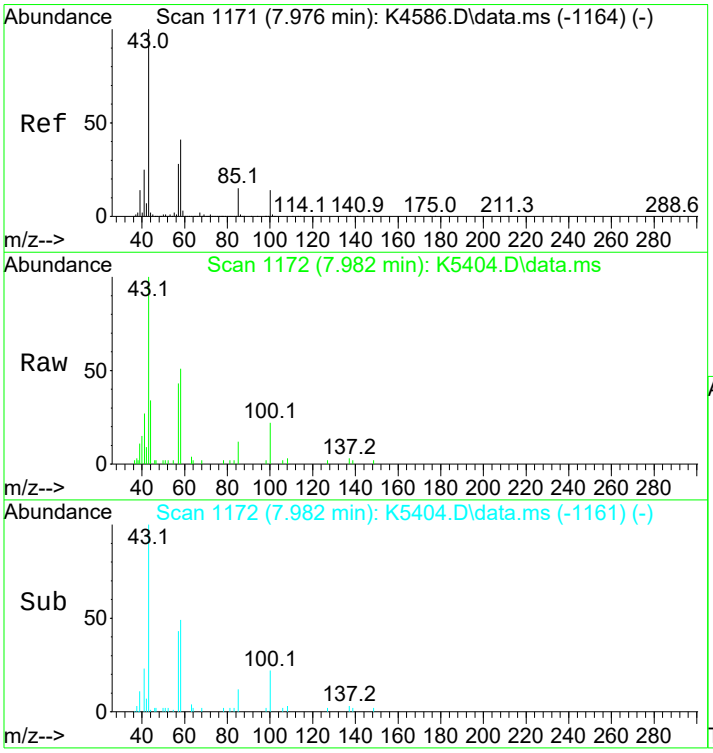


#53
Trichloroethene
Concen: 0.34 ug/L
RT: 6.513 min Scan# 931
Delta R.T. 0.006 min
Lab File: K5404.D
Acq: 30 Aug 2024 02:43 pm

Tgt Ion:130 Resp: 1289

Ion	Ratio	Lower	Upper
130	100		
132	94.2	74.0	114.0
95	86.6	74.1	114.1
97	77.1	38.2	78.2

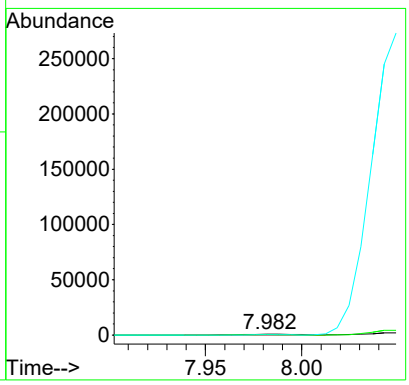


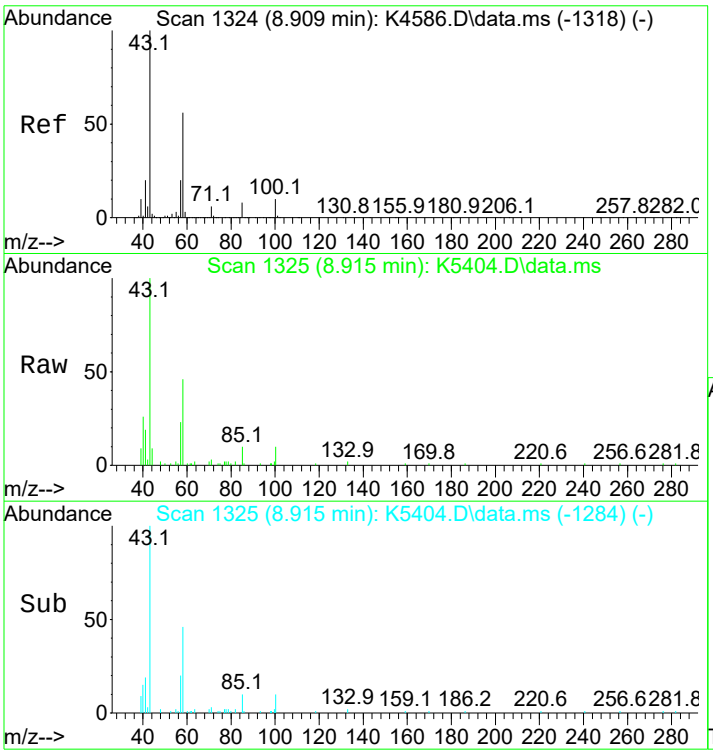


#63
4-Methyl-2-pentanone
Concen: 0.24 ug/L
RT: 7.982 min Scan# 1172
Delta R.T. 0.006 min
Lab File: K5404.D
Acq: 30 Aug 2024 02:43 pm

Tgt Ion: 43 Resp: 1451

Ion	Ratio	Lower	Upper
43	100		
58	51.0	21.3	61.3
100	22.1	0.0	33.7

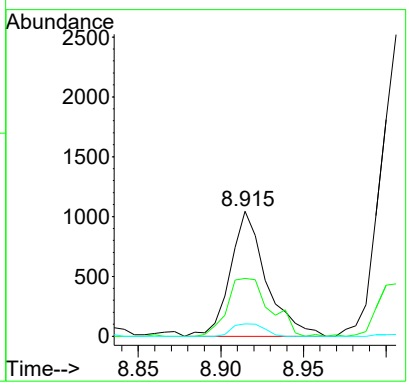


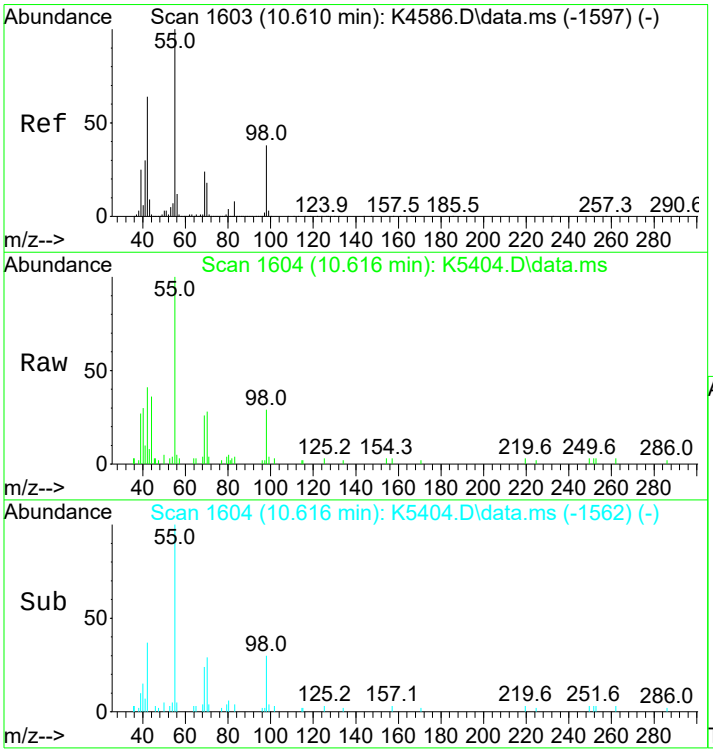


#72
2-Hexanone
Concen: 0.33 ug/L
RT: 8.915 min Scan# 1325
Delta R.T. 0.006 min
Lab File: K5404.D
Acq: 30 Aug 2024 02:43 pm

Tgt Ion: 43 Resp: 1571

Ion	Ratio	Lower	Upper
43	100		
58	46.2	35.9	75.9
100	10.0	0.0	30.1

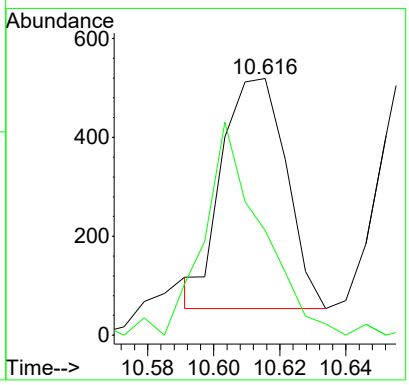




#88
Cyclohexanone
Concen: 0.53 ug/L
RT: 10.616 min Scan# 1604
Delta R.T. 0.006 min
Lab File: K5404.D
Acq: 30 Aug 2024 02:43 pm

Tgt Ion: 55 Resp: 625

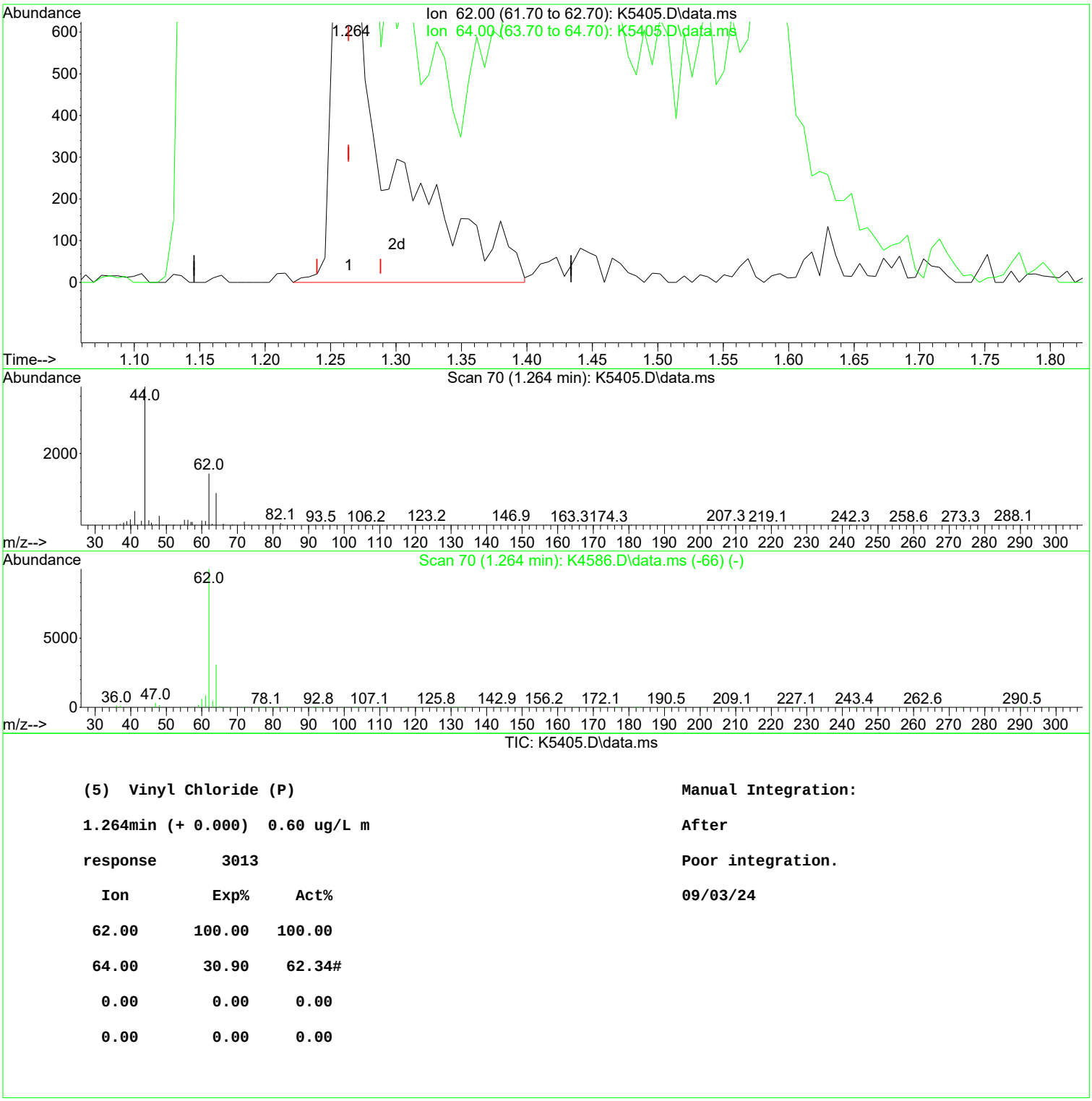
Ion	Ratio	Lower	Upper
55	100		
42	40.8	44.5	84.5#



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5405.D
Acq On : 30 Aug 2024 03:07 pm
Operator : F.NAEGLER
Sample : R2408140-003
Misc : CEC 26473 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 30 16:17:39 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration



TIC: K5405.D\data.ms

(5) Vinyl Chloride (P)

1.264min (+ 0.000) 0.60 ug/L m

response 3013

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.90	62.34#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

09/03/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5405.D
Acq On : 30 Aug 2024 03:07 pm
Operator : F.NAEGLER
Sample : R2408140-003
Misc : CEC 26473 T4
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Quant Time: Aug 30 16:17:39 2024
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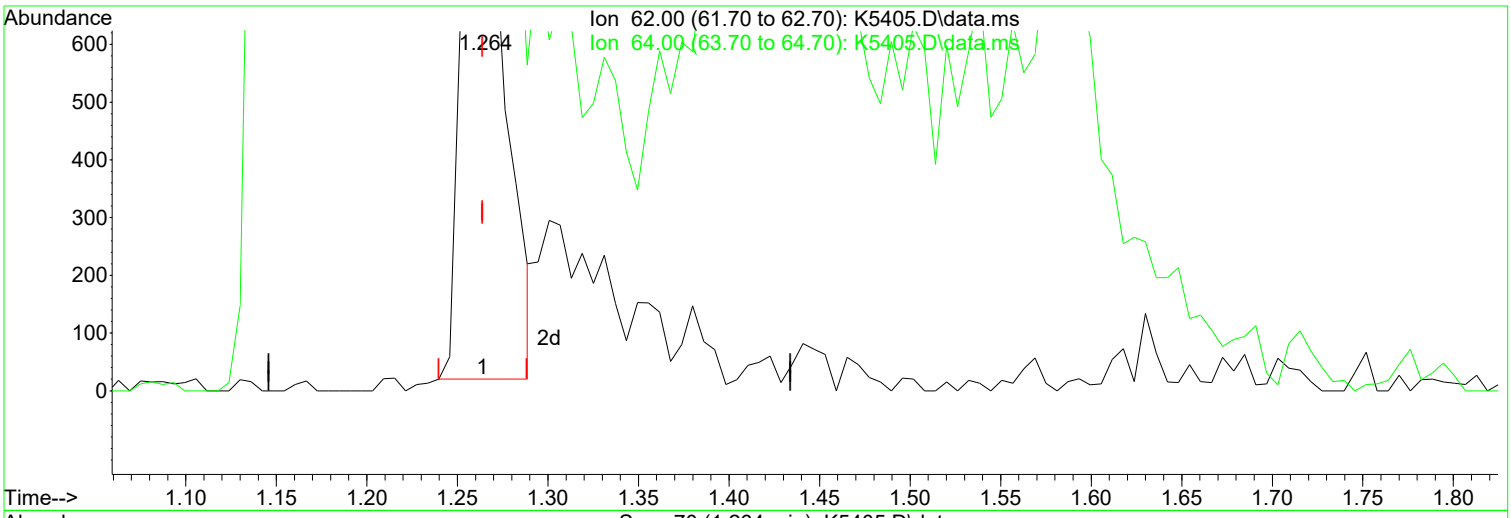
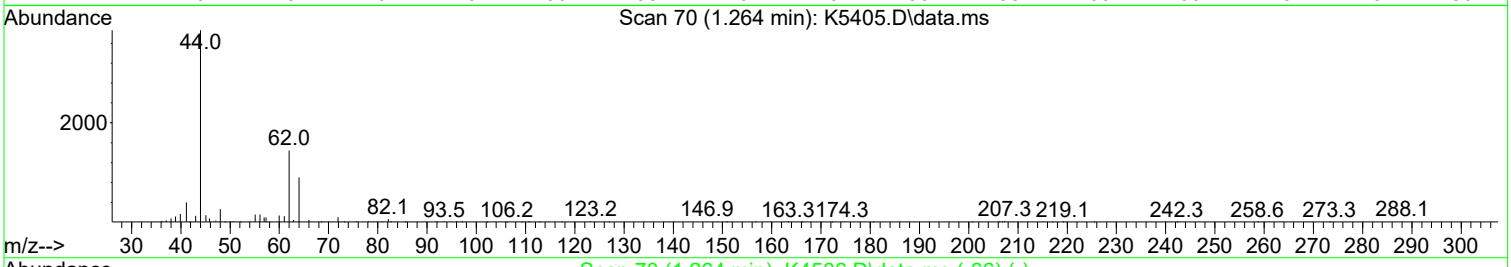
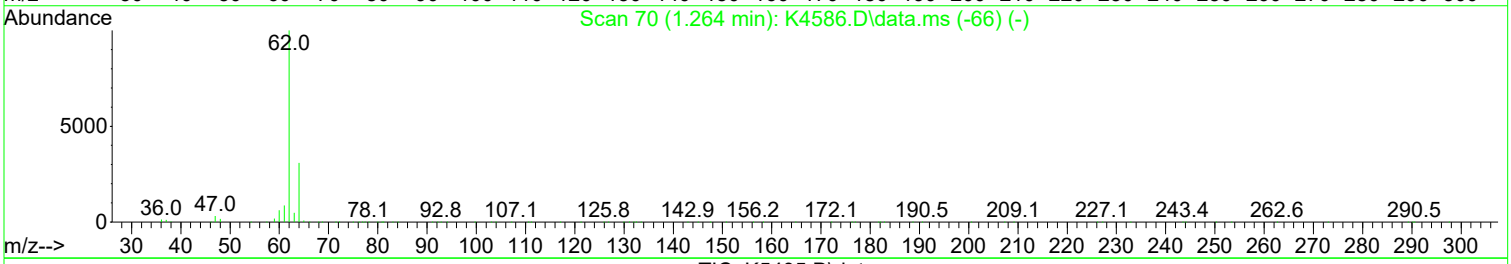
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5405.D\data.ms

(5) Vinyl Chloride (P)

1.264min (+ 0.000) 0.38 ug/L

response 1920

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.90	62.34#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/03/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5405.D
Acq On : 30 Aug 2024 03:07 pm
Operator : F.NAEGLER
Sample : R2408140-003
Misc : CEC 26473 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 30 16:17:39 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

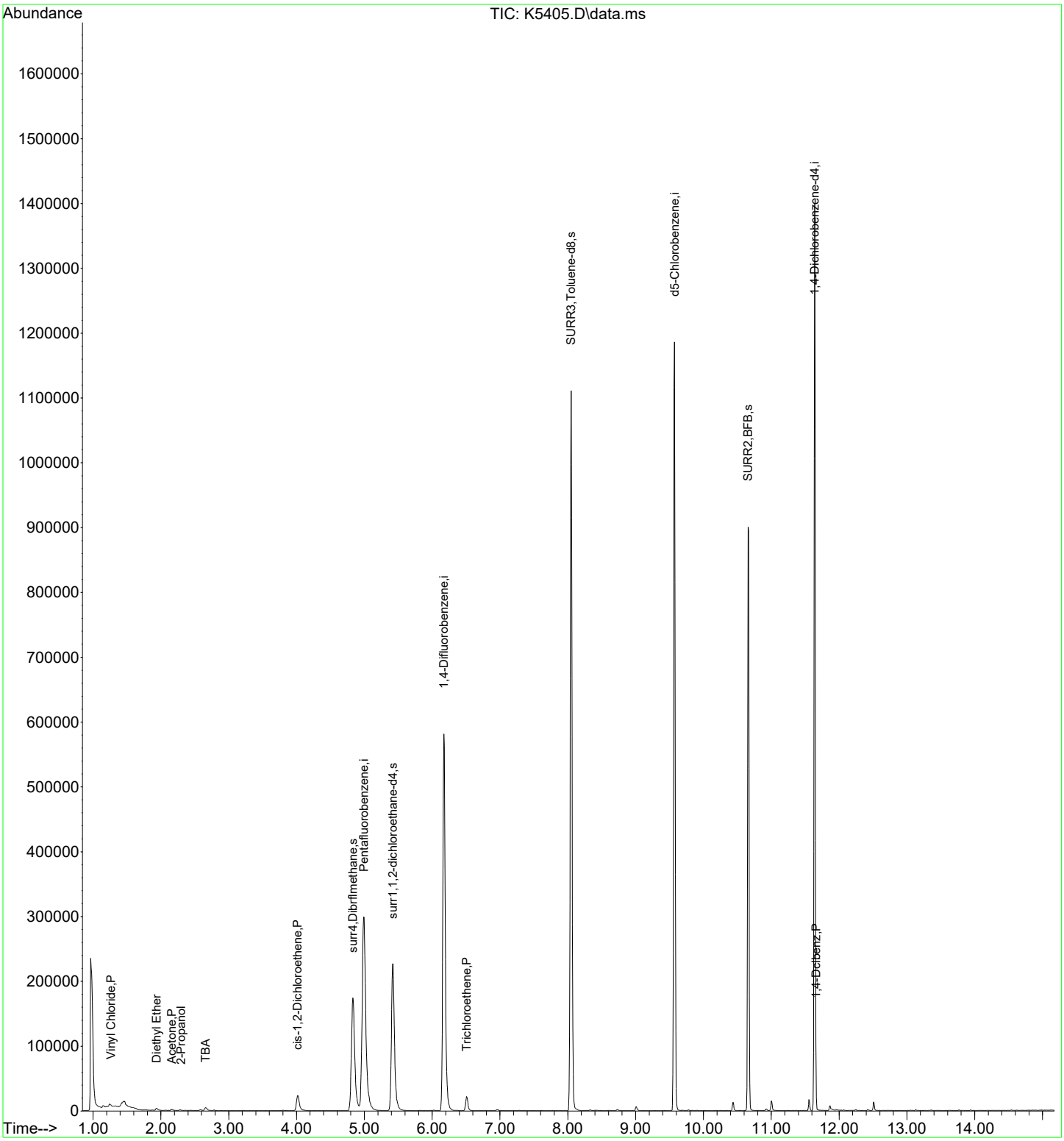
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.995	168	360895	50.00	ug/L		0.00
42) 1,4-Difluorobenzene	6.172	114	607254	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.574	117	542668	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	251209	50.00	ug/L	#	0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.831	113	187716	49.56	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 99.12%				
47) surr1,1,2-dichloroetha...	5.422	65	263132	50.82	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 101.64%				
64) SURR3,Toluene-d8	8.049	98	705628	50.76	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.52%				
69) SURR2,BFB	10.659	95	257940	47.19	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 94.38%				
Target Compounds							Qvalue
5) Vinyl Chloride	1.264	62	3013m	0.599	ug/L		
10) Diethyl Ether	1.935	59	1972	0.504	ug/L		93
16) Acetone	2.160	43	2203	0.763	ug/L		98
17) 2-Propanol	2.294	45	870	1.527	ug/L		71
23) TBA	2.660	59	6228	5.898	ug/L		71
33) cis-1,2-Dichloroethene	4.014	96	15257	3.908	ug/L	#	82
53) Trichloroethene	6.507	130	9381	2.436	ug/L		97
105) 1,4-Dclbenz	11.659	146	1856	0.240	ug/L		89

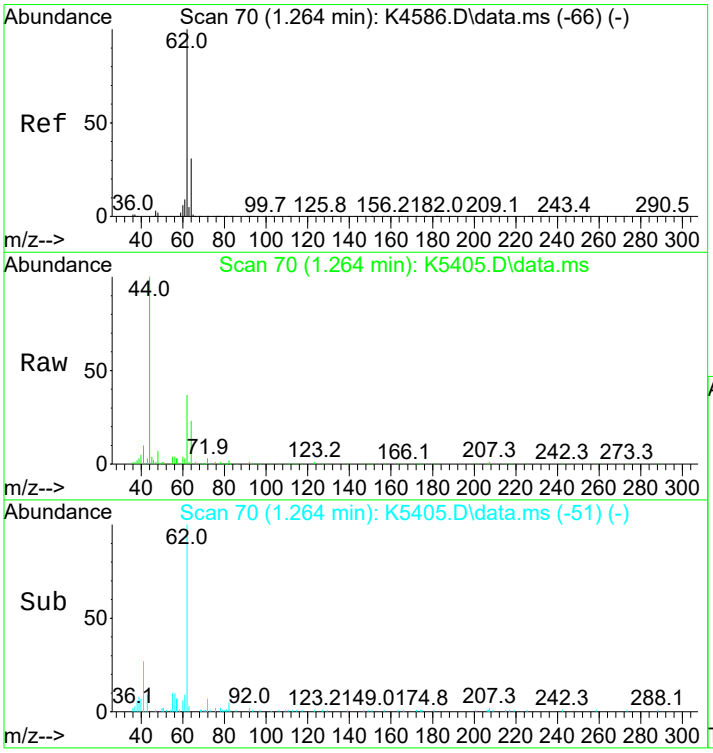
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5405.D
Acq On : 30 Aug 2024 03:07 pm
Operator : F.NAEGLER
Sample : R2408140-003
Misc : CEC 26473 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 30 16:17:39 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

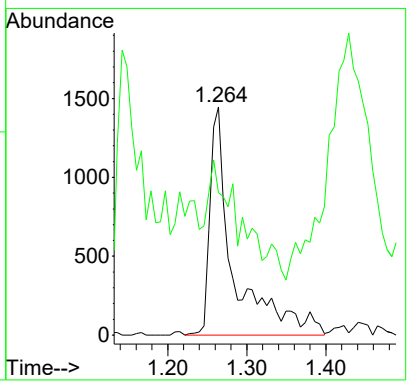


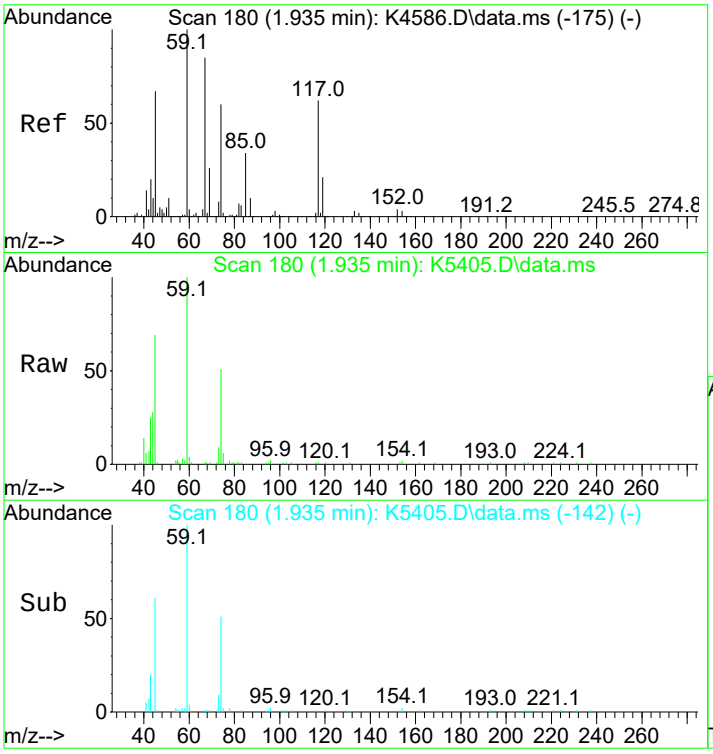


#5
Vinyl Chloride
Concen: 0.60 ug/L m
RT: 1.264 min Scan# 70
Delta R.T. 0.000 min
Lab File: K5405.D
Acq: 30 Aug 2024 03:07 pm

Tgt Ion: 62 Resp: 3013

Ion	Ratio	Lower	Upper
62	100		
64	62.3	10.9	50.9#

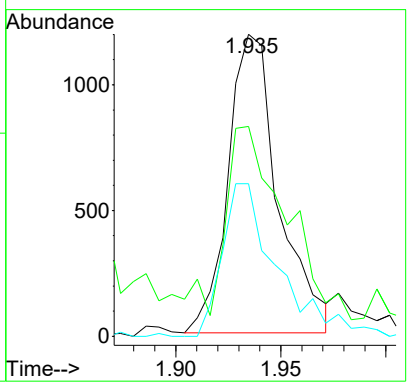


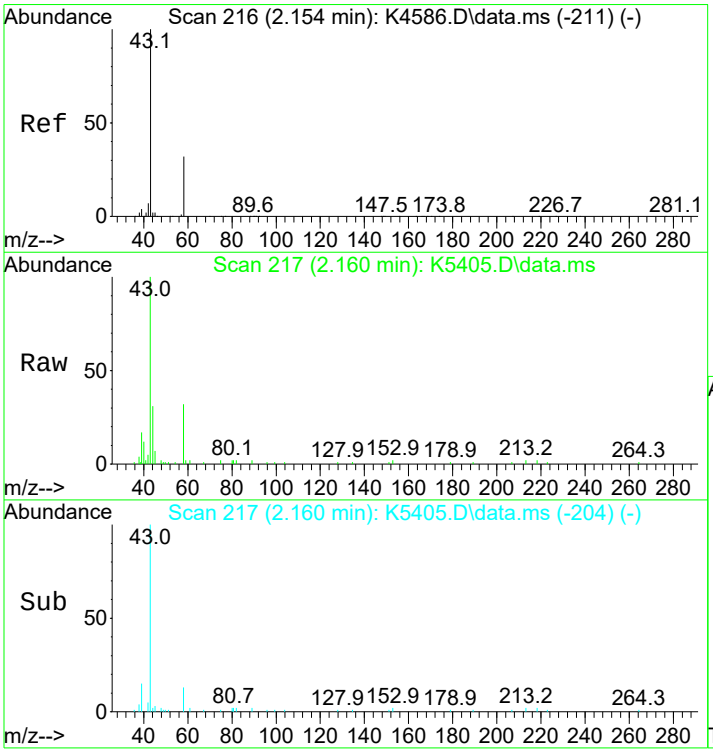


#10
Diethyl Ether
Concen: 0.50 ug/L
RT: 1.935 min Scan# 180
Delta R.T. 0.000 min
Lab File: K5405.D
Acq: 30 Aug 2024 03:07 pm

Tgt Ion: 59 Resp: 1972

Ion	Ratio	Lower	Upper
59	100		
45	69.4	47.3	87.3
74	50.5	39.8	79.8

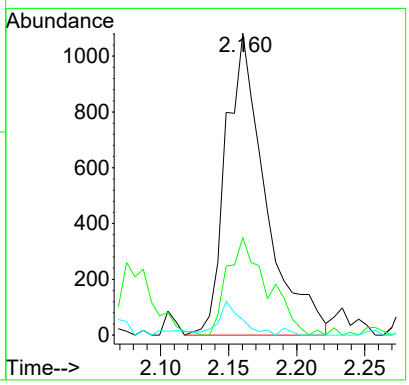


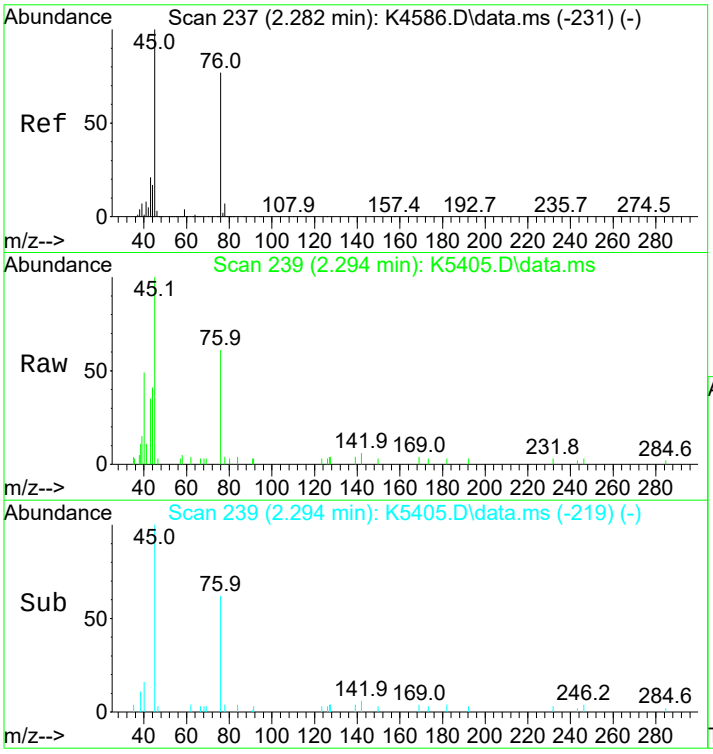


#16
Acetone
Concen: 0.76 ug/L
RT: 2.160 min Scan# 217
Delta R.T. 0.006 min
Lab File: K5405.D
Acq: 30 Aug 2024 03:07 pm

Tgt Ion: 43 Resp: 2203

Ion	Ratio	Lower	Upper
43	100		
58	32.3	11.5	51.5
42	5.1	0.0	27.3

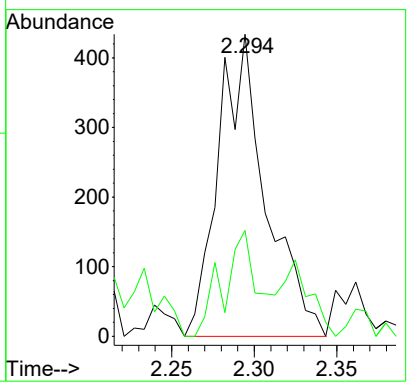


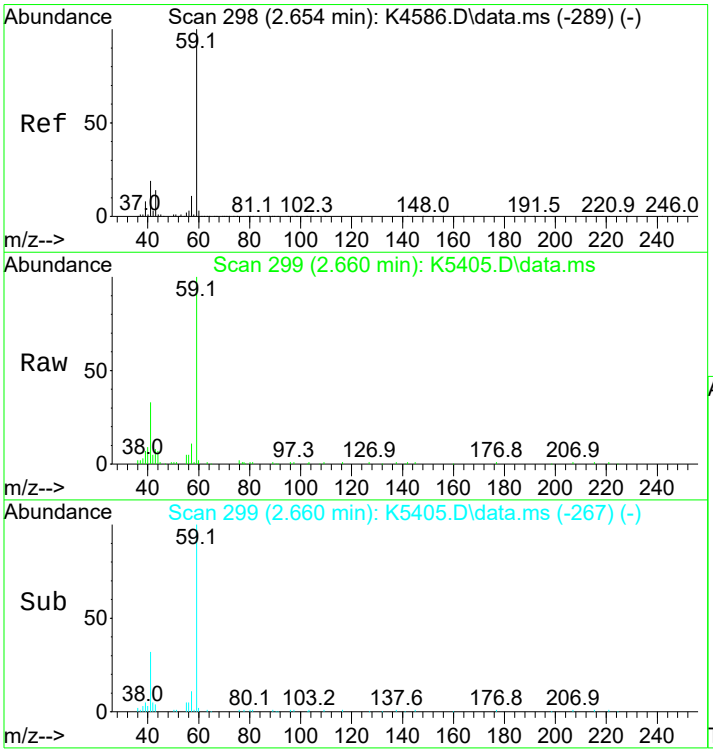


#17
2-Propanol
Concen: 1.53 ug/L
RT: 2.294 min Scan# 239
Delta R.T. 0.012 min
Lab File: K5405.D
Acq: 30 Aug 2024 03:07 pm

Tgt Ion: 45 Resp: 870

Ion	Ratio	Lower	Upper
45	100		
43	35.0	1.4	41.4

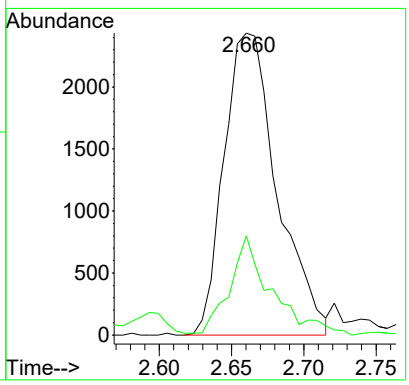


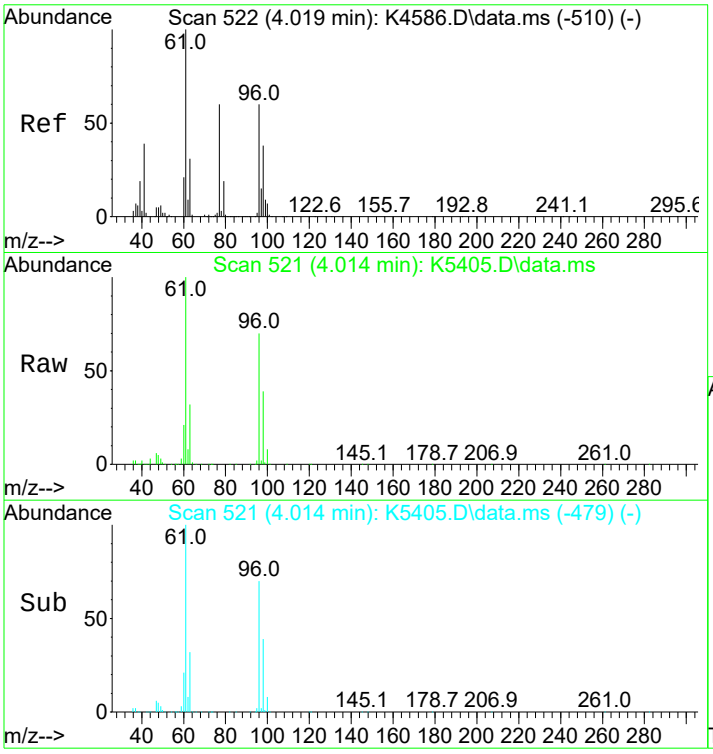


#23
TBA
Concen: 5.90 ug/L
RT: 2.660 min Scan# 299
Delta R.T. 0.006 min
Lab File: K5405.D
Acq: 30 Aug 2024 03:07 pm

Tgt Ion: 59 Resp: 6228

Ion	Ratio	Lower	Upper
59	100		
41	32.9	0.0	39.7

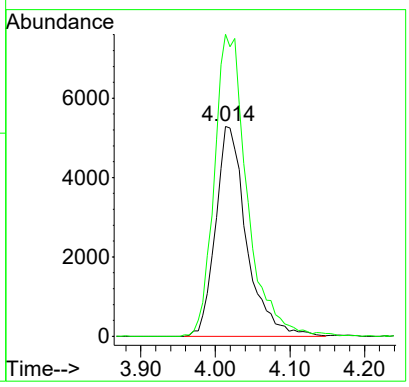


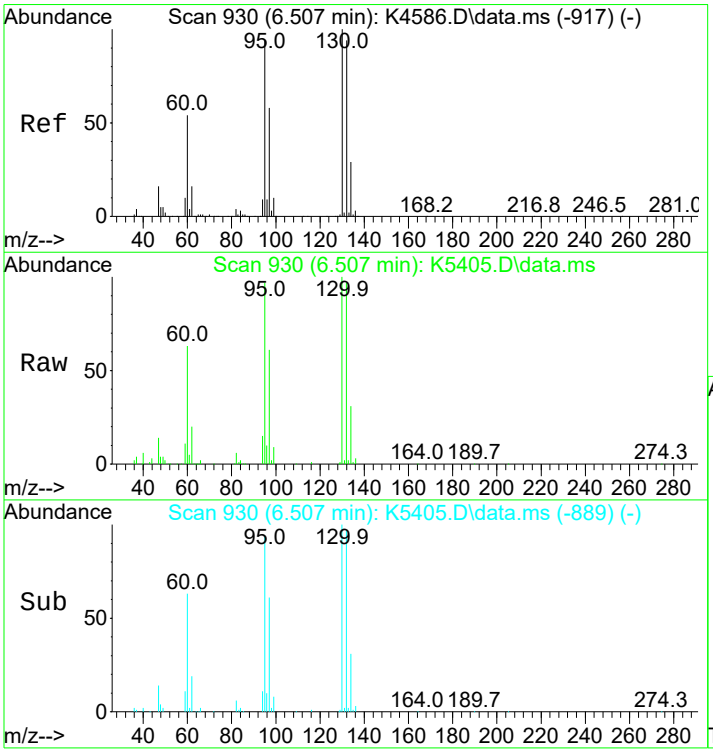


#33
cis-1,2-Dichloroethene
Concen: 3.91 ug/L
RT: 4.014 min Scan# 521
Delta R.T. -0.006 min
Lab File: K5405.D
Acq: 30 Aug 2024 03:07 pm

Tgt Ion: 96 Resp: 15257

Ion	Ratio	Lower	Upper
96	100		
61	143.9	147.9	187.9#

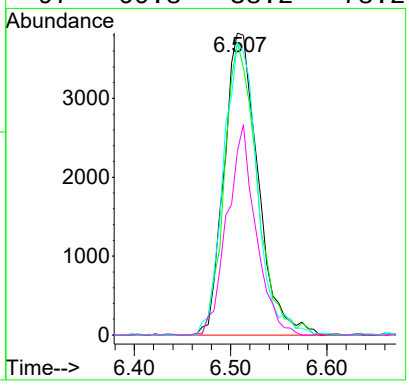


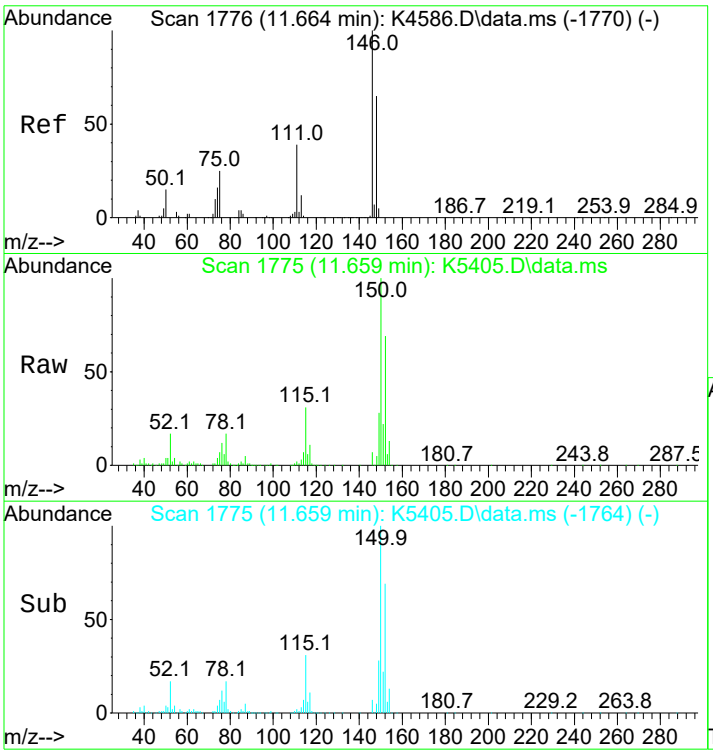


#53
Trichloroethene
Concen: 2.44 ug/L
RT: 6.507 min Scan# 930
Delta R.T. 0.000 min
Lab File: K5405.D
Acq: 30 Aug 2024 03:07 pm

Tgt Ion:130 Resp: 9381

Ion	Ratio	Lower	Upper
130	100		
132	97.0	74.0	114.0
95	96.9	74.1	114.1
97	60.8	38.2	78.2

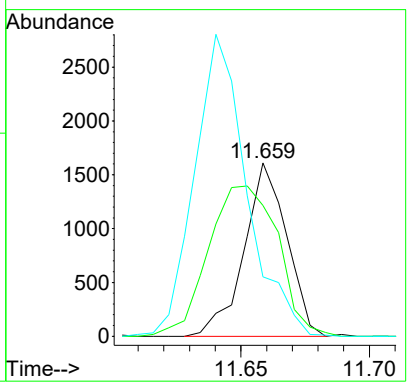




#105
1,4-Dclbenz
Concen: 0.24 ug/L
RT: 11.659 min Scan# 1775
Delta R.T. -0.006 min
Lab File: K5405.D
Acq: 30 Aug 2024 03:07 pm

Tgt Ion:146 Resp: 1856

Ion	Ratio	Lower	Upper
146	100		
148	75.5	44.8	84.8
111	34.4	18.8	58.8

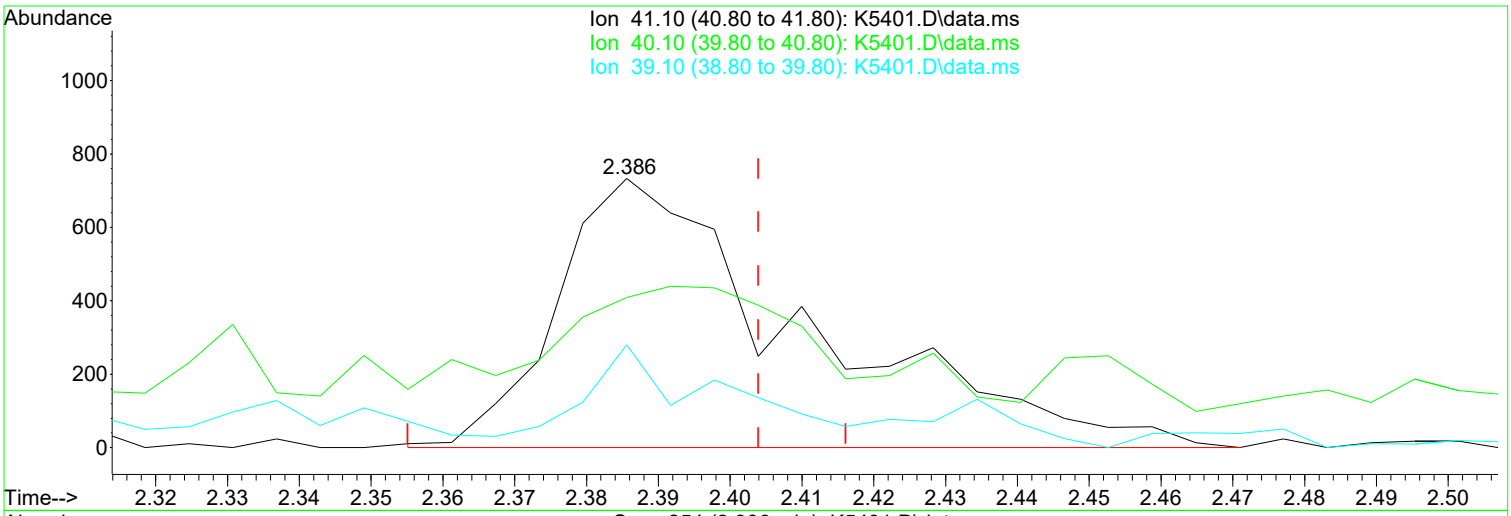


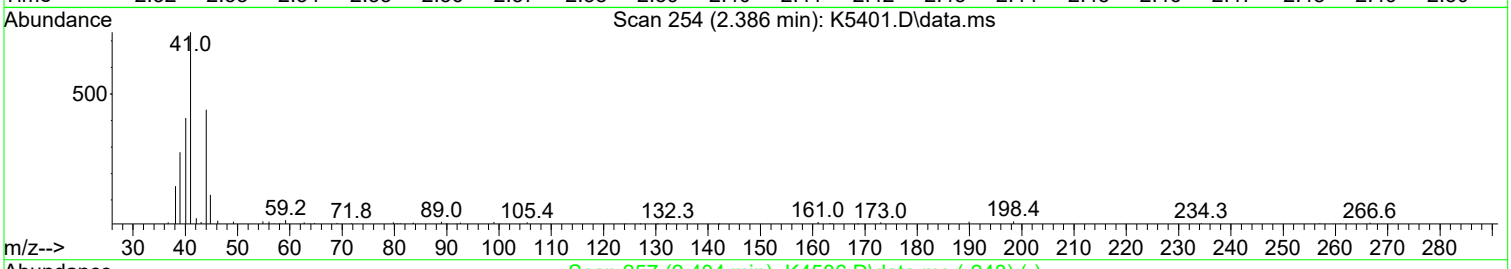
1st FN 09/03/24
2nd 09/04/24

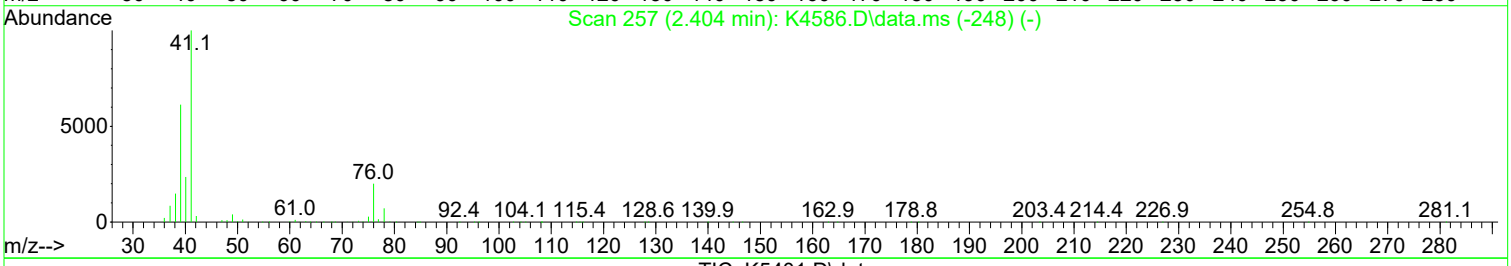
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5401.D
Acq On : 30 Aug 2024 01:32 pm
Operator : F.NAEGLER
Sample : R2408140-004
Misc : CEC 26473 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 30 14:39:30 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5401.D\data.ms

(20) Acetonitrile/Allyl Chloride

2.386min (-0.018) 1.13 ug/L m

response 1749

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	24.00	55.80#
39.10	61.30	38.20#
0.00	0.00	0.00

Manual Integration:

After

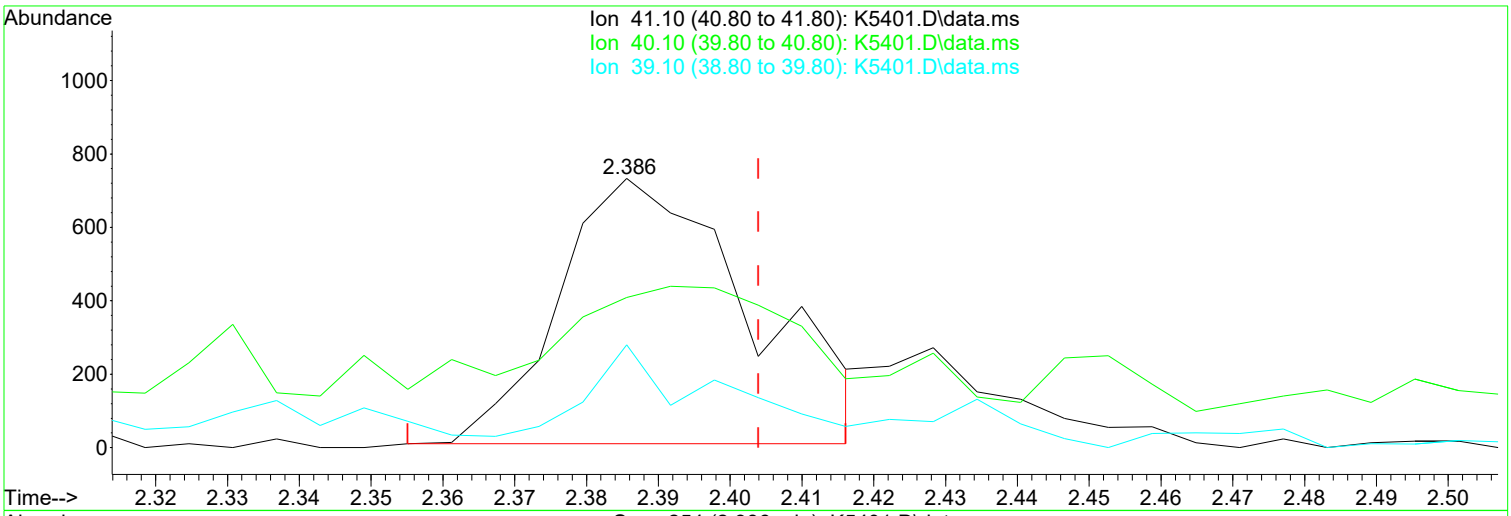
Poor integration.

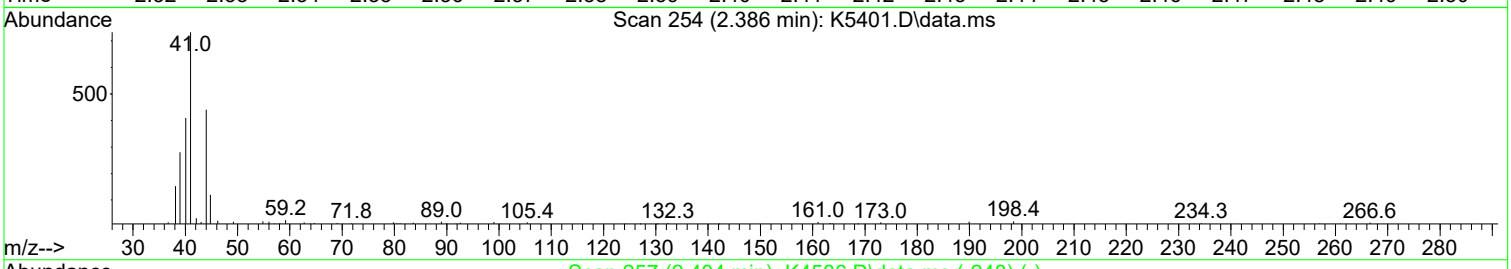
09/03/24

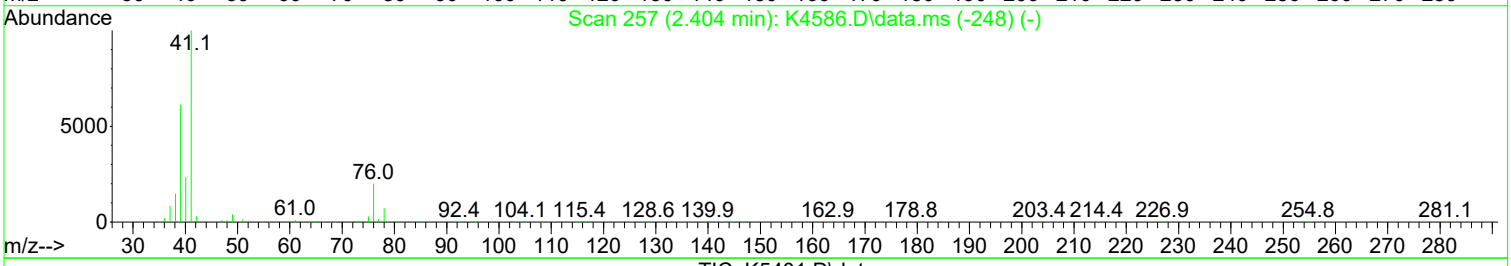
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5401.D
Acq On : 30 Aug 2024 01:32 pm
Operator : F.NAEGLER
Sample : R2408140-004
Misc : CEC 26473 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 30 14:39:30 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5401.D\data.ms

(20) Acetonitrile/Allyl Chloride

2.386min (-0.018) 0.87 ug/L

response 1349

Ion	Exp%	Act%
41.10	100.00	100.00
40.10	24.00	55.80#
39.10	61.30	38.20#
0.00	0.00	0.00

Manual Integration:

Before

09/03/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5401.D
Acq On : 30 Aug 2024 01:32 pm
Operator : F.NAEGLER
Sample : R2408140-004
Misc : CEC 26473 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 30 14:39:30 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

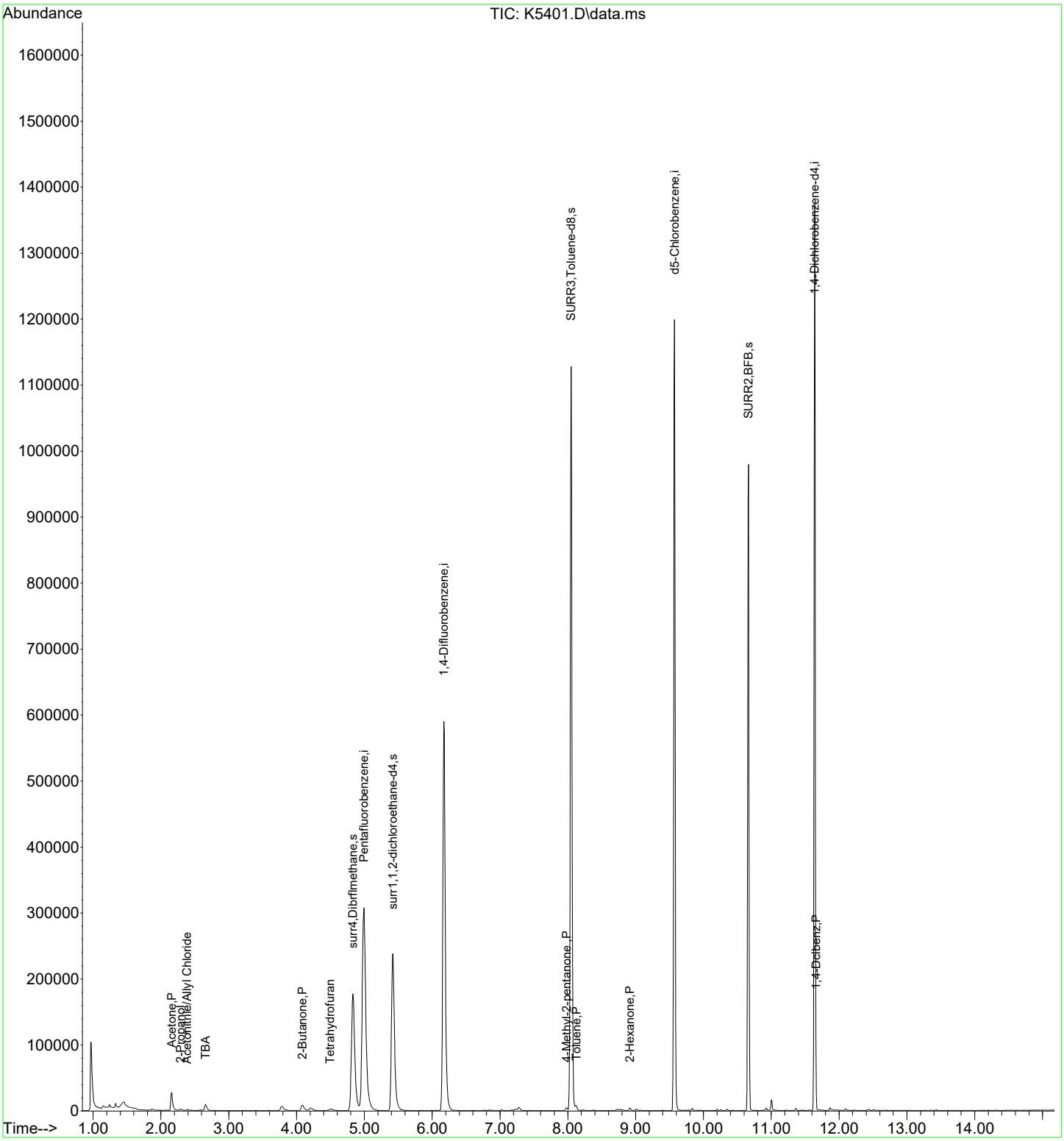
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.995	168	367208	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.172	114	607500	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.573	117	543280	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	249835	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.830	113	189488	50.00	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 100.00%			
47) surr1,1,2-dichloroetha...	5.422	65	267617	51.67	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 103.34%			
64) SURR3,Toluene-d8	8.049	98	723682	52.04	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 104.08%			
69) SURR2,BFB	10.665	95	269994	49.38	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 98.76%			
Target Compounds						Qvalue
16) Acetone	2.160	43	34942	11.888	ug/L	98
17) 2-Propanol	2.288	45	2946	5.082	ug/L	68
20) Acetonitrile/Allyl Chl...	2.386	41	1749m	1.131	ug/L	
23) TBA	2.660	59	13019	12.118	ug/L	97
34) 2-Butanone	4.087	43	16576	4.726	ug/L	98
38) Tetrahydrofuran	4.495	42	2626	1.174	ug/L	83
63) 4-Methyl-2-pentanone	7.982	43	3529	0.573	ug/L	98
65) Toluene	8.128	91	4042	0.274	ug/L	95
72) 2-Hexanone	8.915	43	2381	0.497	ug/L	84
105) 1,4-Dclbenz	11.658	146	1686	0.219	ug/L #	59

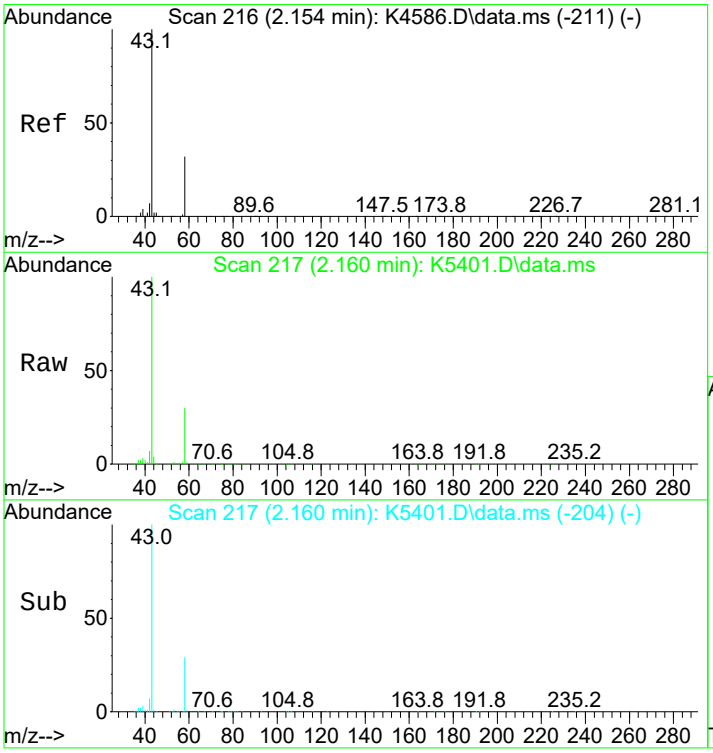
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5401.D
Acq On : 30 Aug 2024 01:32 pm
Operator : F.NAEGLER
Sample : R2408140-004
Misc : CEC 26473 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 30 14:39:30 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

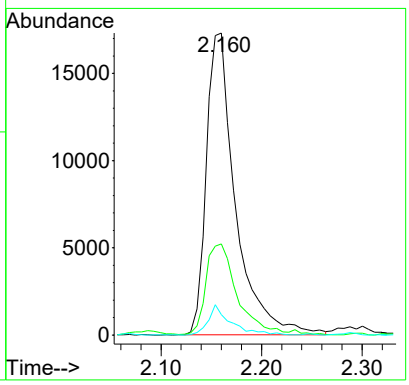


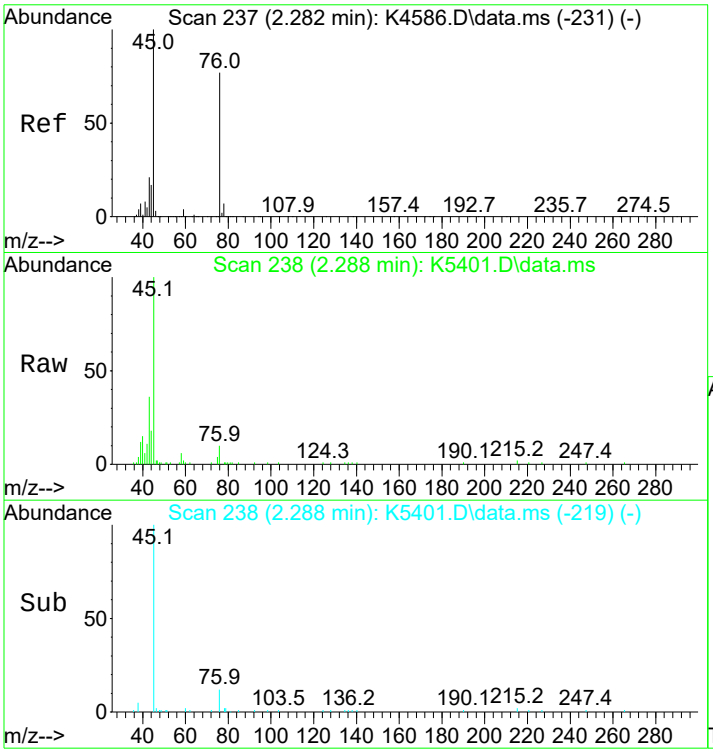


#16
Acetone
Concen: 11.89 ug/L
RT: 2.160 min Scan# 217
Delta R.T. 0.006 min
Lab File: K5401.D
Acq: 30 Aug 2024 01:32 pm

Tgt Ion: 43 Resp: 34942

Ion	Ratio	Lower	Upper
43	100		
58	30.1	11.5	51.5
42	6.8	0.0	27.3

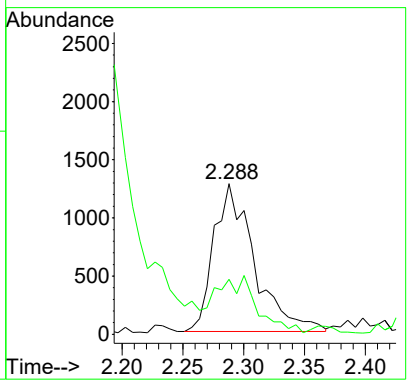


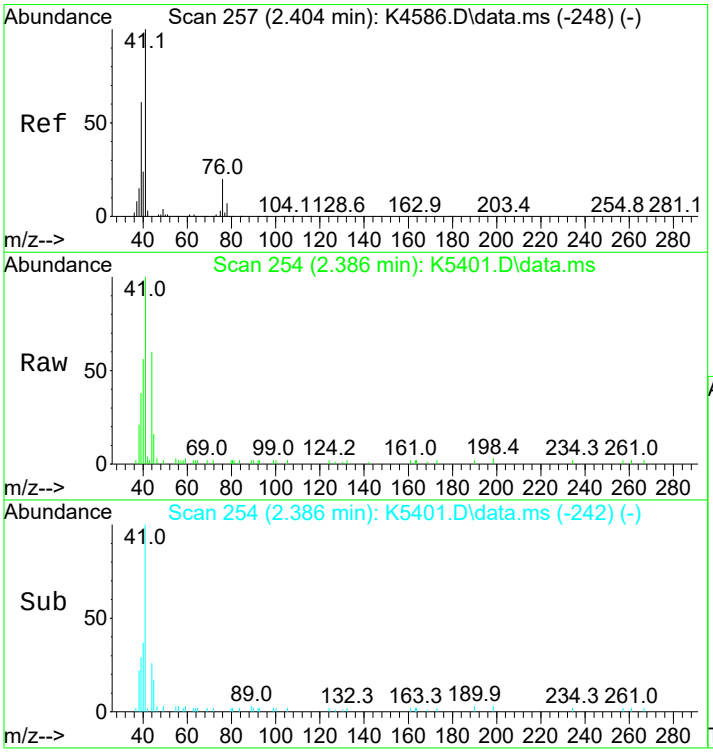


#17
2-Propanol
Concen: 5.08 ug/L
RT: 2.288 min Scan# 238
Delta R.T. 0.006 min
Lab File: K5401.D
Acq: 30 Aug 2024 01:32 pm

Tgt Ion: 45 Resp: 2946

Ion	Ratio	Lower	Upper
45	100		
43	36.4	1.4	41.4

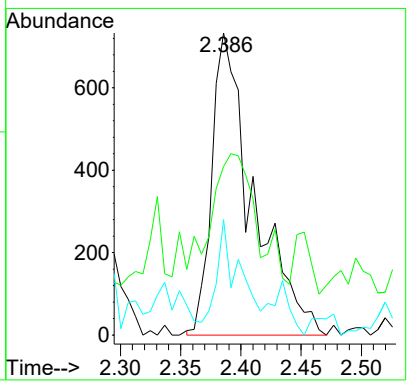


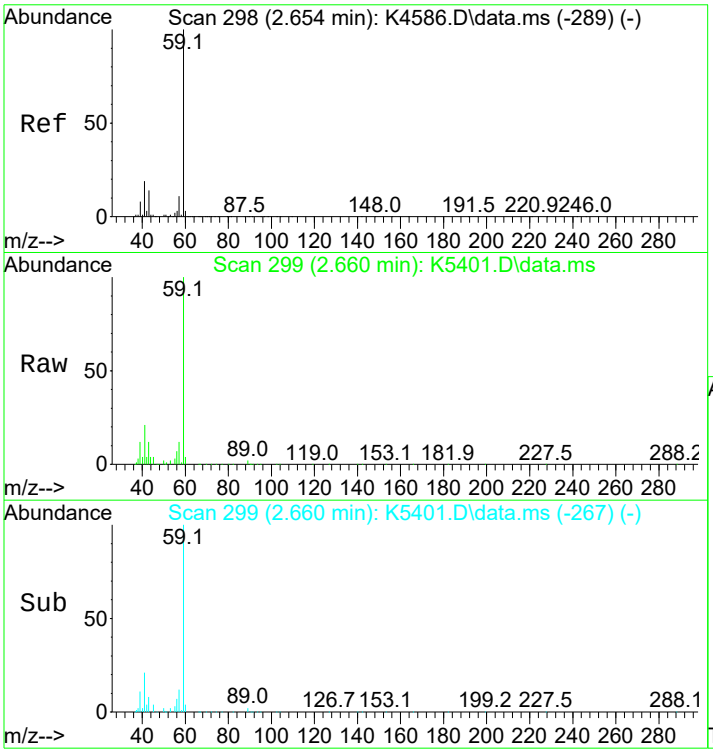


#20
Acetonitrile/Allyl Chloride
Concen: 1.13 ug/L m
RT: 2.386 min Scan# 254
Delta R.T. -0.018 min
Lab File: K5401.D
Acq: 30 Aug 2024 01:32 pm

Tgt Ion: 41 Resp: 1749

Ion	Ratio	Lower	Upper
41	100		
40	55.8	4.0	44.0#
39	38.2	41.3	81.3#

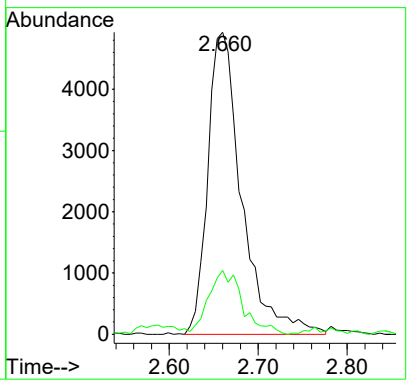


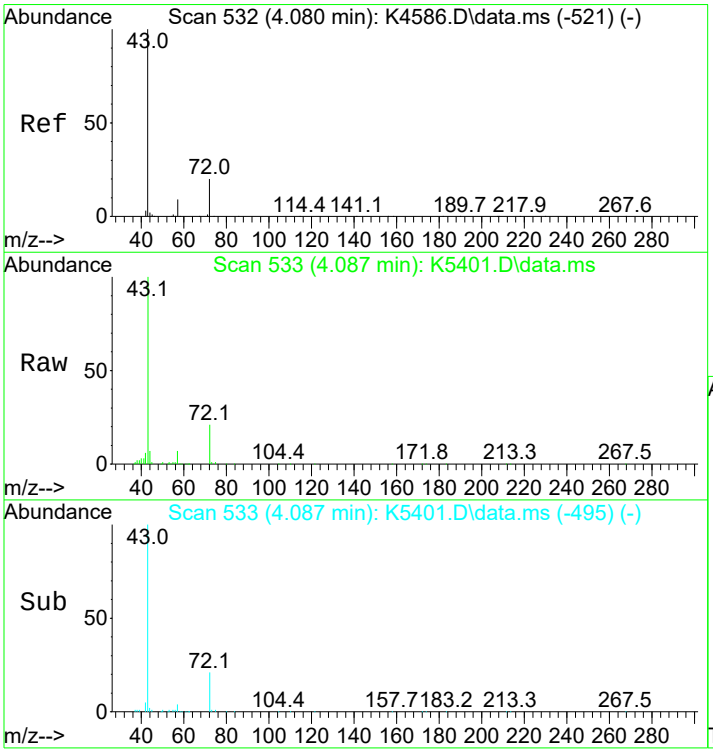


#23
TBA
Concen: 12.12 ug/L
RT: 2.660 min Scan# 299
Delta R.T. 0.006 min
Lab File: K5401.D
Acq: 30 Aug 2024 01:32 pm

Tgt Ion: 59 Resp: 13019

Ion	Ratio	Lower	Upper
59	100		
41	21.2	0.0	39.7

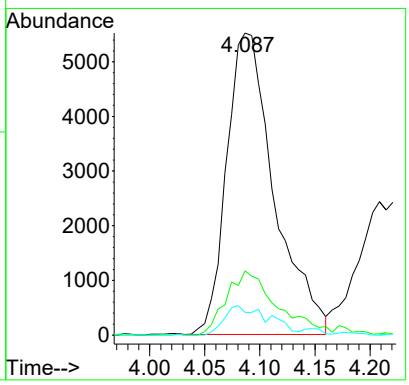


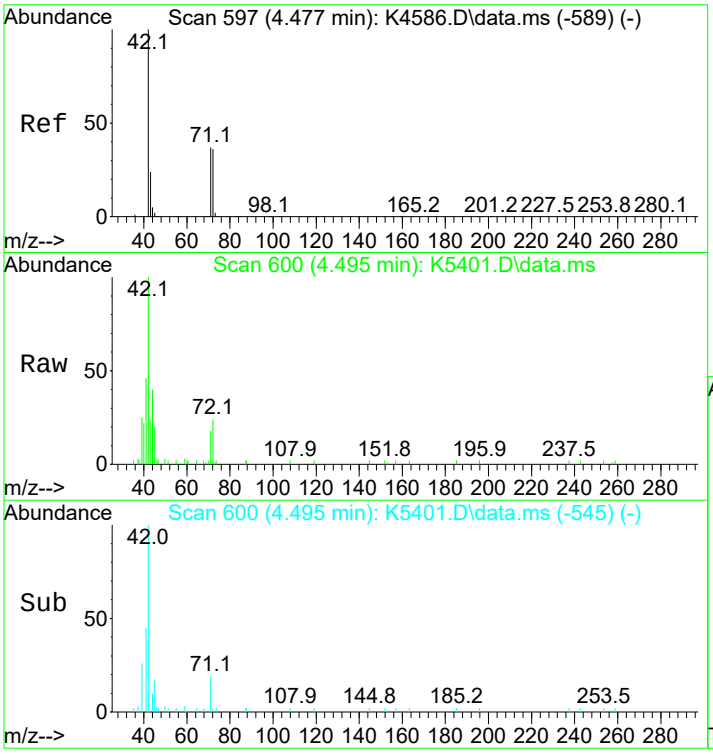


#34
2-Butanone
Concen: 4.73 ug/L
RT: 4.087 min Scan# 533
Delta R.T. 0.006 min
Lab File: K5401.D
Acq: 30 Aug 2024 01:32 pm

Tgt Ion: 43 Resp: 16576

Ion	Ratio	Lower	Upper
43	100		
72	21.3	1.2	41.2
57	7.5	0.0	29.2

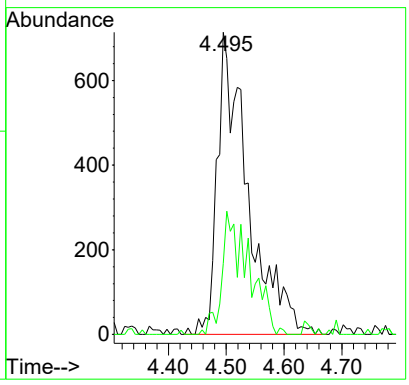


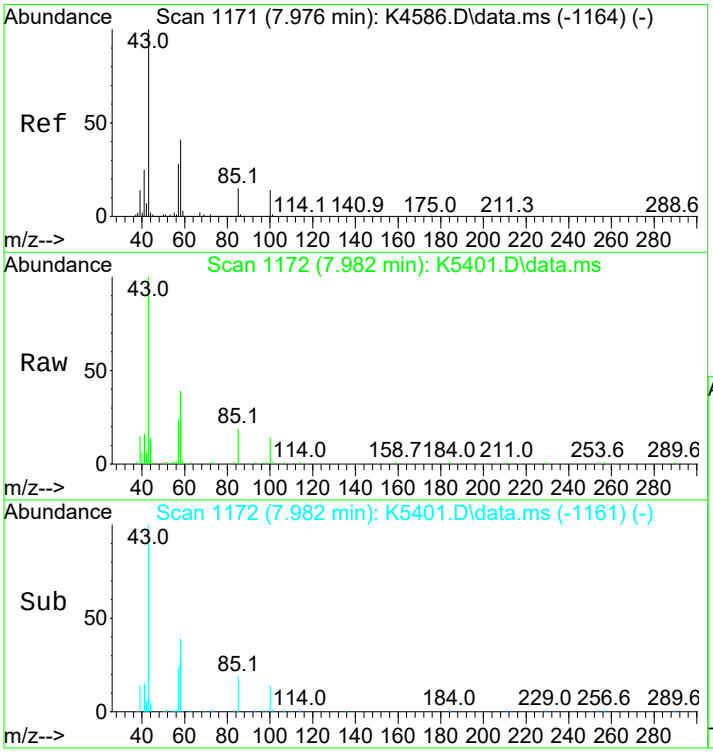


#38
Tetrahydrofuran
Concen: 1.17 ug/L
RT: 4.495 min Scan# 600
Delta R.T. 0.018 min
Lab File: K5401.D
Acq: 30 Aug 2024 01:32 pm

Tgt Ion: 42 Resp: 2626

Ion	Ratio	Lower	Upper
42	100		
72	24.9	15.0	55.0

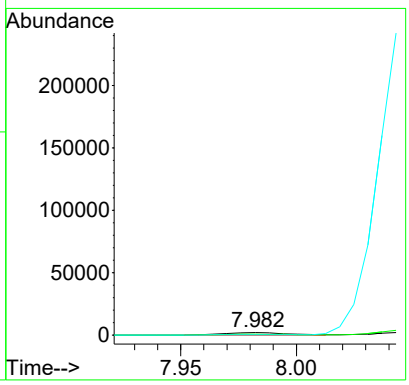


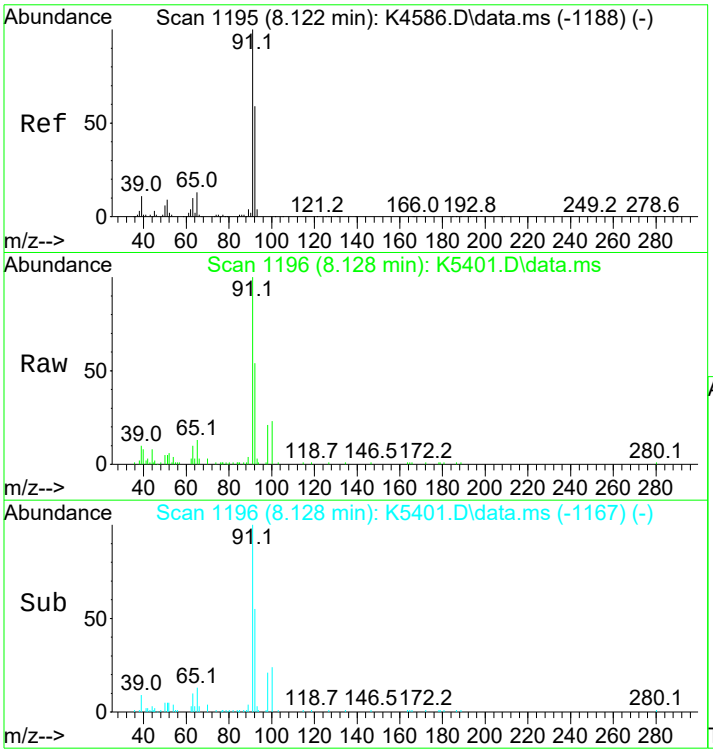


#63
4-Methyl-2-pentanone
Concen: 0.57 ug/L
RT: 7.982 min Scan# 1172
Delta R.T. 0.006 min
Lab File: K5401.D
Acq: 30 Aug 2024 01:32 pm

Tgt Ion: 43 Resp: 3529

Ion	Ratio	Lower	Upper
43	100		
58	39.4	21.3	61.3
100	14.0	0.0	33.7

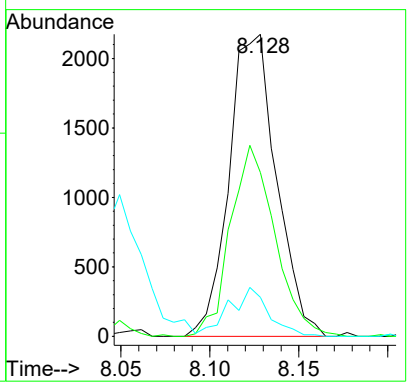


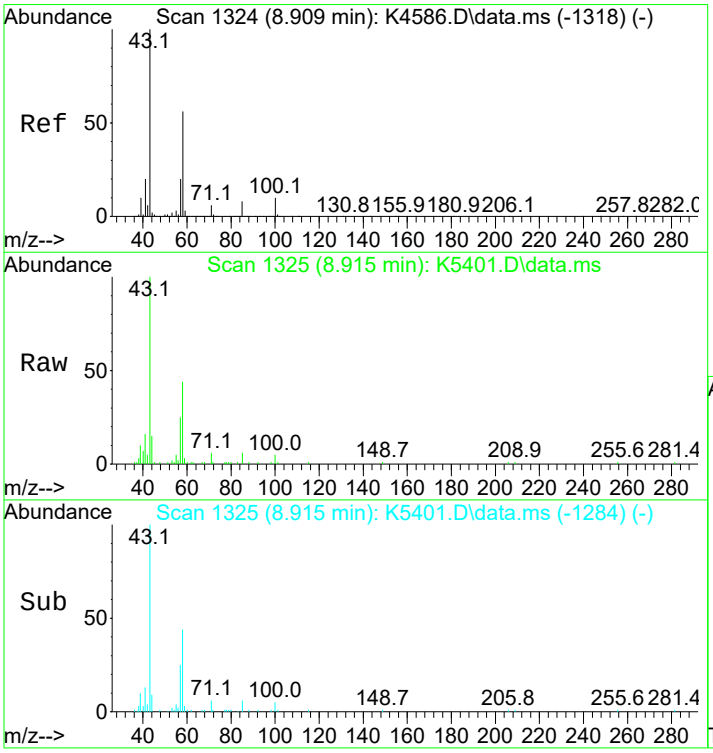


#65
Toluene
Concen: 0.27 ug/L
RT: 8.128 min Scan# 1196
Delta R.T. 0.006 min
Lab File: K5401.D
Acq: 30 Aug 2024 01:32 pm

Tgt Ion: 91 Resp: 4042

Ion	Ratio	Lower	Upper
91	100		
92	54.3	39.0	79.0
65	12.9	0.0	32.8

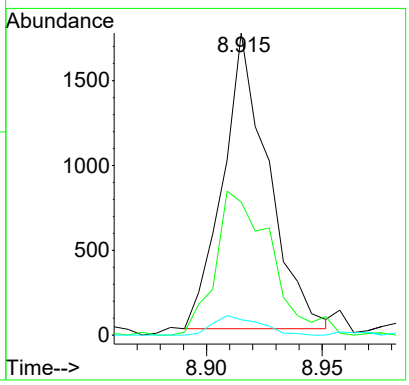


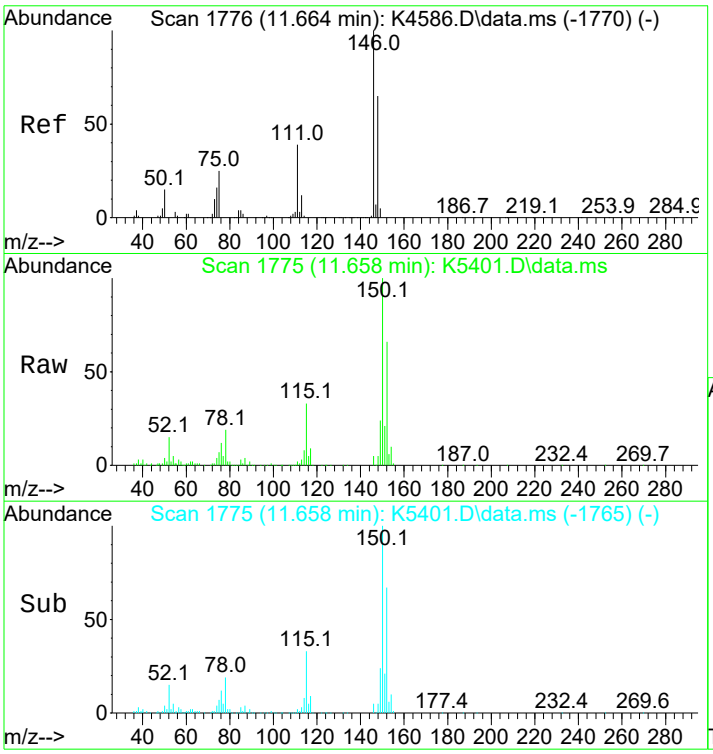


#72
2-Hexanone
Concen: 0.50 ug/L
RT: 8.915 min Scan# 1325
Delta R.T. 0.006 min
Lab File: K5401.D
Acq: 30 Aug 2024 01:32 pm

Tgt Ion: 43 Resp: 2381

Ion	Ratio	Lower	Upper
43	100		
58	44.1	35.9	75.9
100	5.1	0.0	30.1

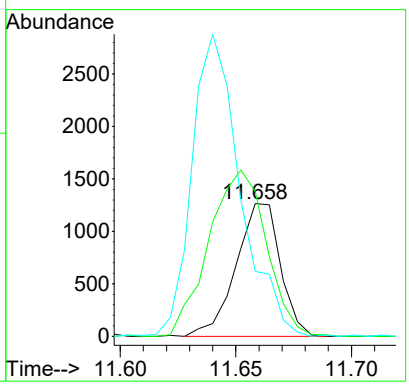




#105
1,4-Dclbenz
Concen: 0.22 ug/L
RT: 11.658 min Scan# 1775
Delta R.T. -0.006 min
Lab File: K5401.D
Acq: 30 Aug 2024 01:32 pm

Tgt Ion:146 Resp: 1686

Ion	Ratio	Lower	Upper
146	100		
148	108.9	44.8	84.8#
111	48.8	18.8	58.8



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5406.D
Acq On : 30 Aug 2024 03:30 pm
Operator : F.NAEGLER
Sample : R2408140-005
Misc : CEC 26473 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 30 16:17:59 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

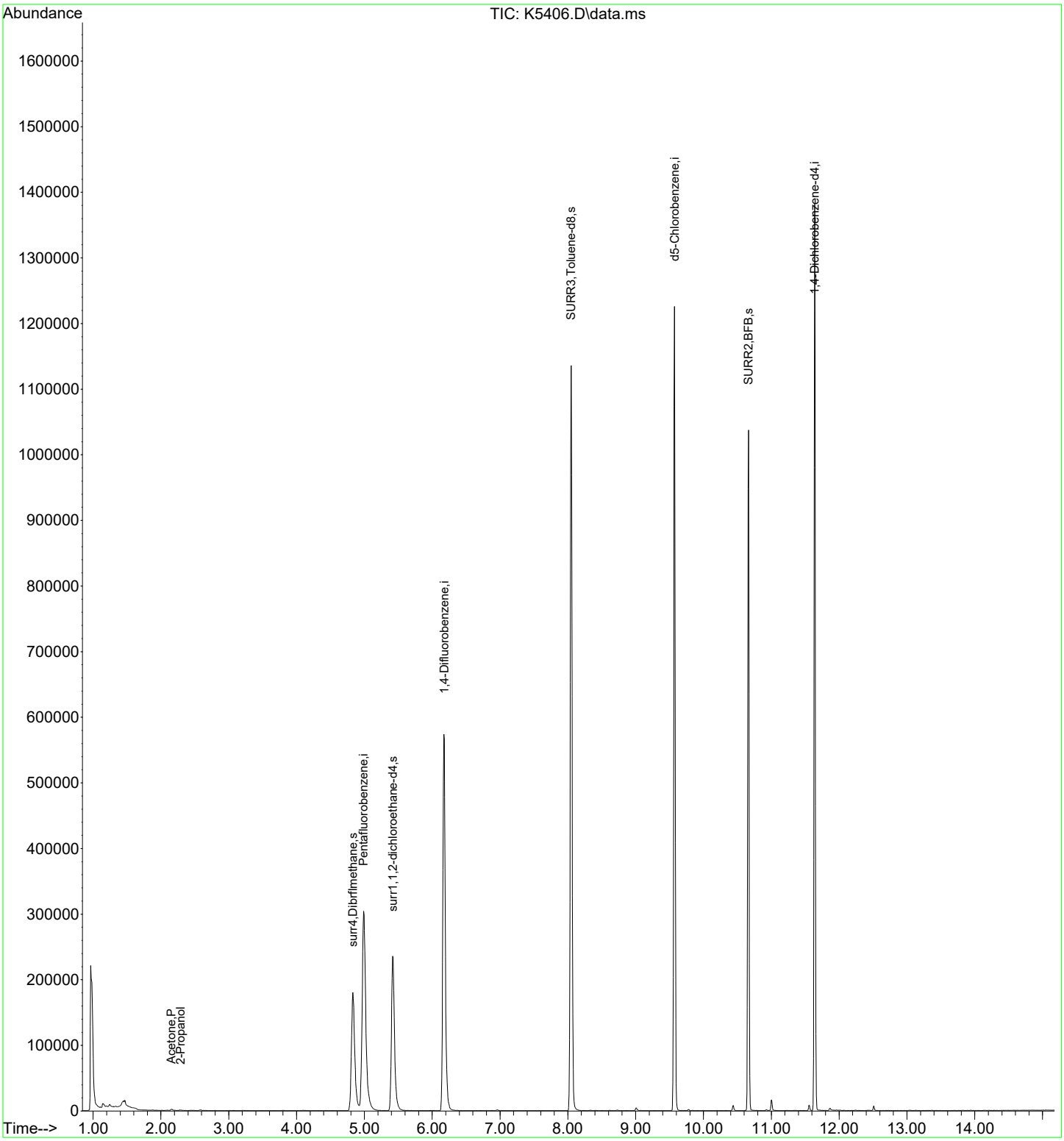
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.989	168	363018	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.178	114	607882	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.573	117	541990	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	245731	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.830	113	191361	50.47	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 100.94%			
47) surr1,1,2-dichloroetha...	5.422	65	272872	52.65	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 105.30%			
64) SURR3,Toluene-d8	8.049	98	727284	52.27	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 104.54%			
69) SURR2,BFB	10.665	95	281530	51.46	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.92%			
Target Compounds						Qvalue
16) Acetone	2.154	43	2684	0.924	ug/L	91
17) 2-Propanol	2.288	45	684	1.194	ug/L	92

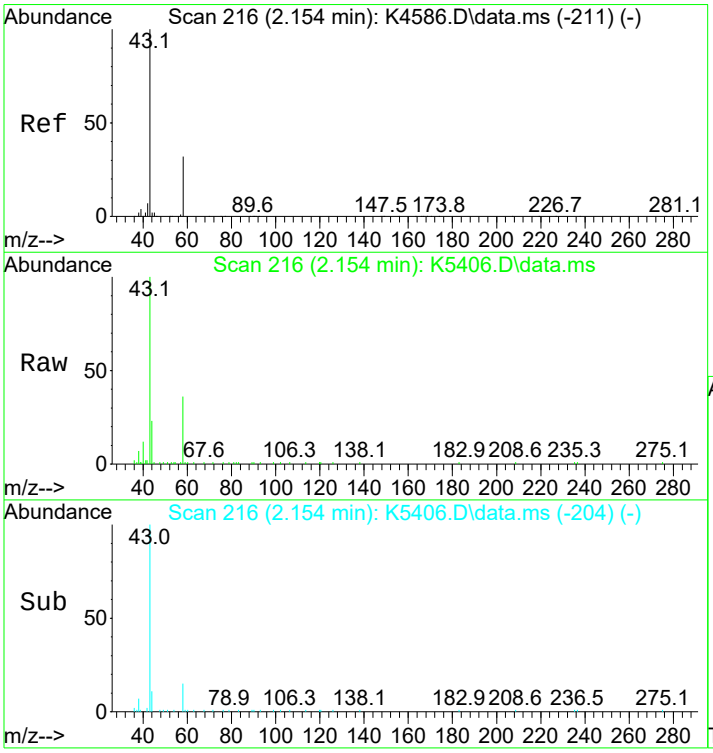
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5406.D
Acq On : 30 Aug 2024 03:30 pm
Operator : F.NAEGLER
Sample : R2408140-005
Misc : CEC 26473 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 30 16:17:59 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

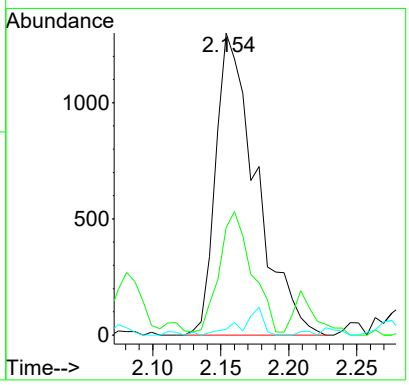


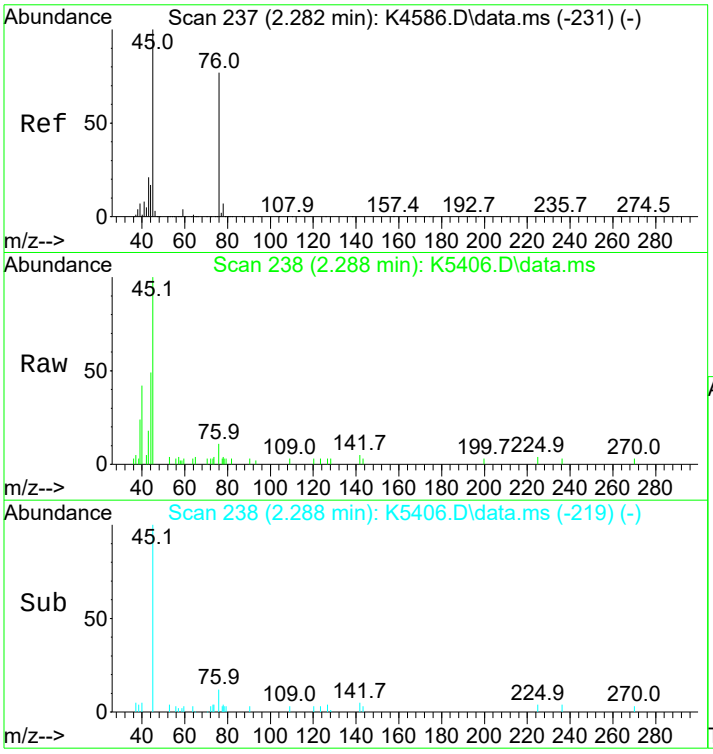


#16
Acetone
Concen: 0.92 ug/L
RT: 2.154 min Scan# 216
Delta R.T. -0.000 min
Lab File: K5406.D
Acq: 30 Aug 2024 03:30 pm

Tgt Ion: 43 Resp: 2684

Ion	Ratio	Lower	Upper
43	100		
58	35.5	11.5	51.5
42	1.8	0.0	27.3

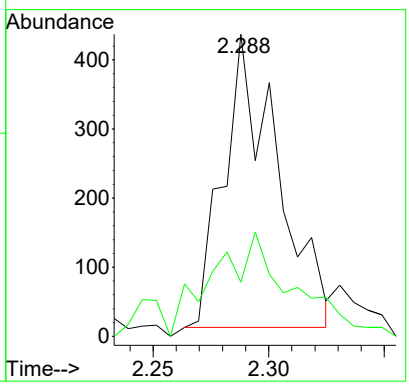




#17
2-Propanol
Concen: 1.19 ug/L
RT: 2.288 min Scan# 238
Delta R.T. 0.006 min
Lab File: K5406.D
Acq: 30 Aug 2024 03:30 pm

Tgt Ion: 45 Resp: 684

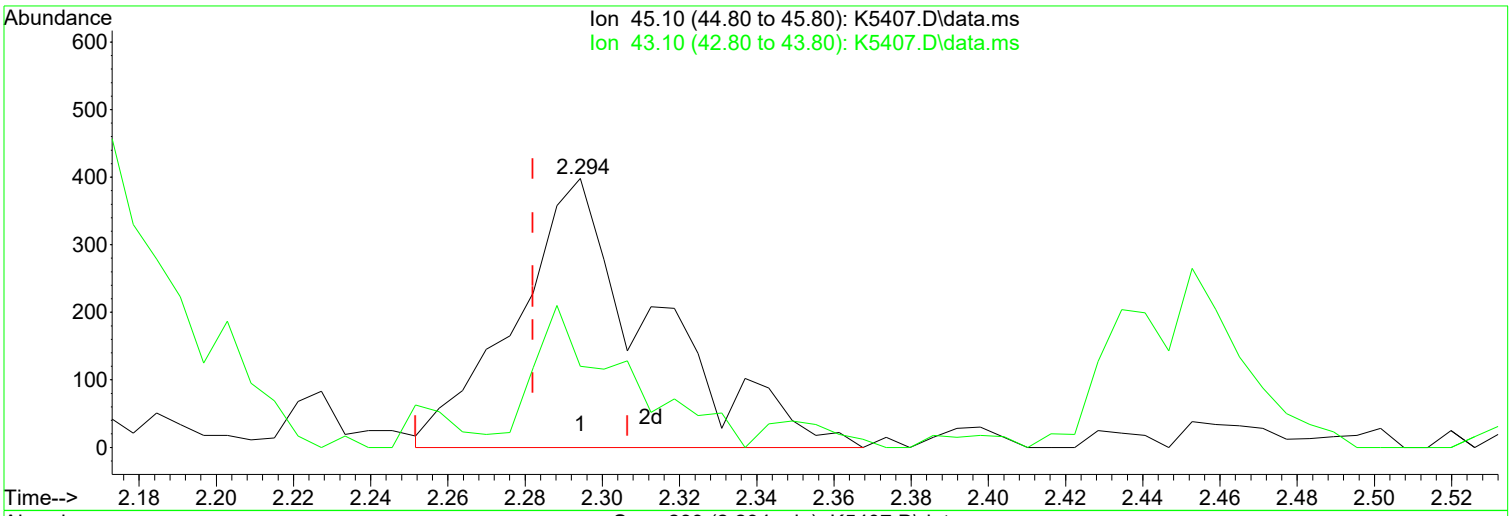
Ion	Ratio	Lower	Upper
45	100		
43	17.8	1.4	41.4

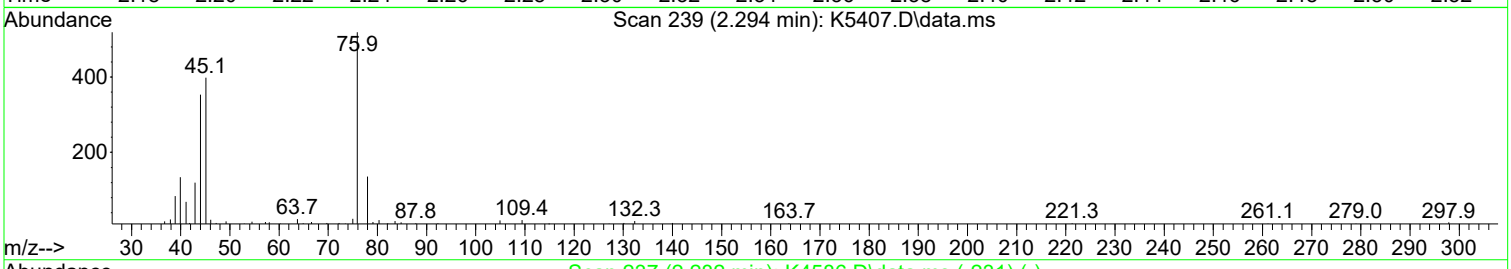


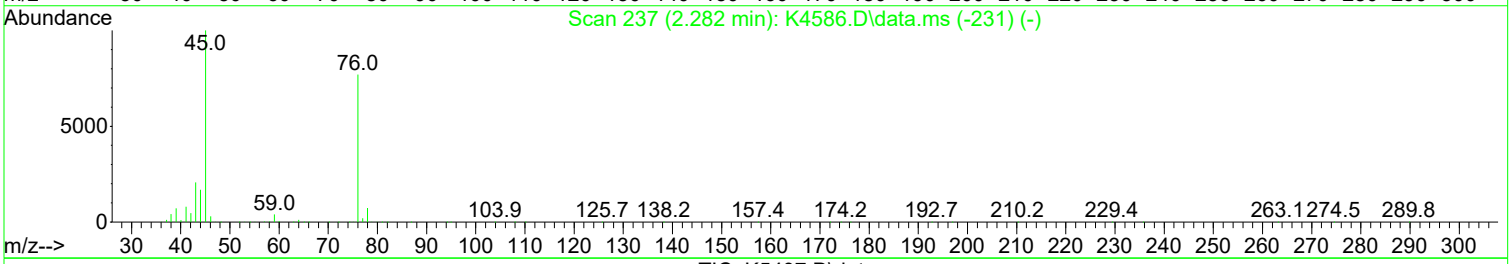
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5407.D
Acq On : 30 Aug 2024 03:54 pm
Operator : F.NAEGLER
Sample : R2408140-006
Misc : CEC 26473 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 30 16:18:20 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5407.D\data.ms

(17) 2-Propanol

2.294min (+ 0.012) 1.71 ug/L m

response 991

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	21.40	30.15
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

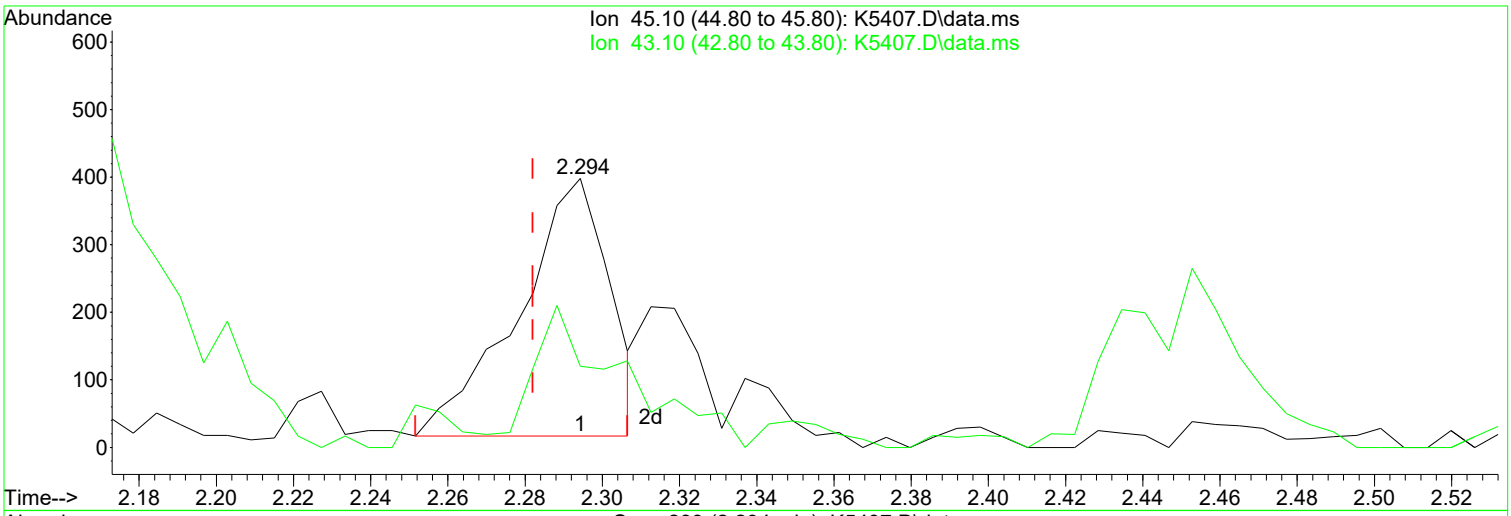
Poor integration.

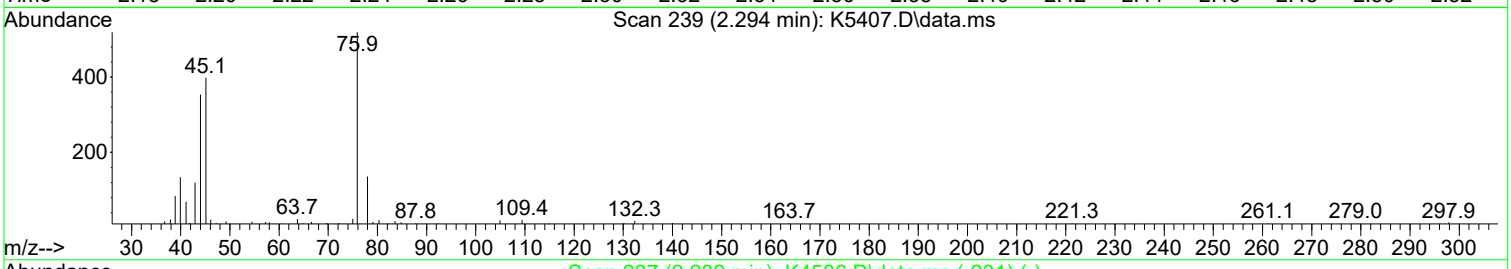
09/04/24

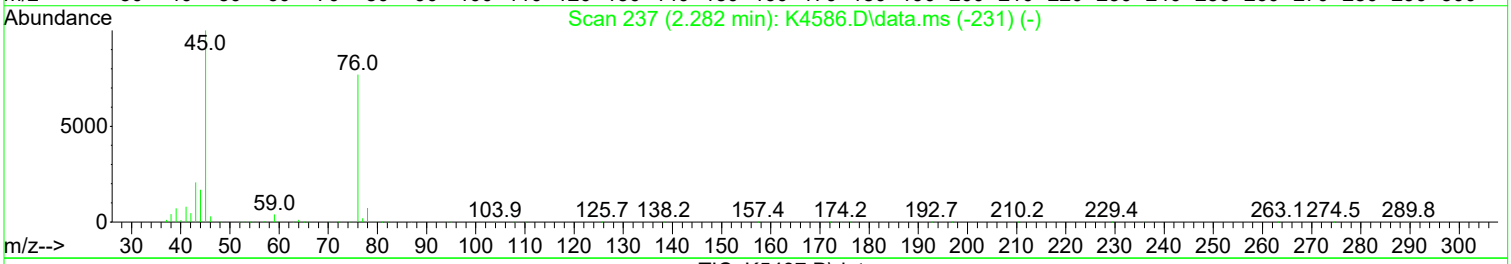
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5407.D
Acq On : 30 Aug 2024 03:54 pm
Operator : F.NAEGLER
Sample : R2408140-006
Misc : CEC 26473 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 30 16:18:20 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5407.D\data.ms

(17) 2-Propanol

2.294min (+ 0.012) 1.07 ug/L

response 624

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	21.40	30.15
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/04/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5407.D
Acq On : 30 Aug 2024 03:54 pm
Operator : F.NAEGLER
Sample : R2408140-006
Misc : CEC 26473 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 30 16:18:20 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

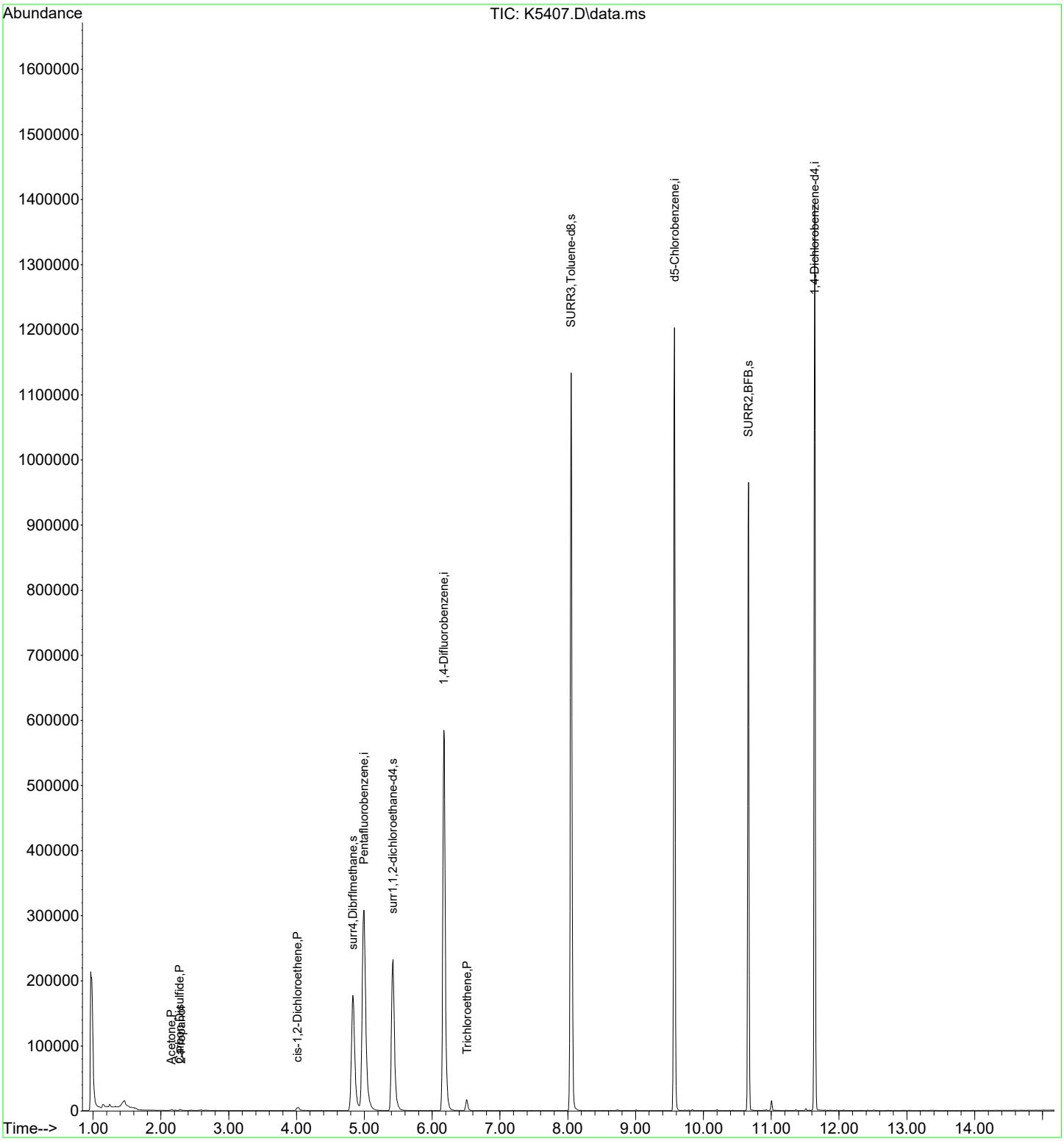
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.995	168	368115	50.00	ug/L		0.00
42) 1,4-Difluorobenzene	6.172	114	615964	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.573	117	545364	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	249831	50.00	ug/L	#	0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.830	113	188994	49.19	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 98.38%				
47) surr1,1,2-dichloroetha...	5.422	65	264416	50.35	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.70%				
64) SURR3,Toluene-d8	8.049	98	714562	50.68	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.36%				
69) SURR2,BFB	10.665	95	261386	47.15	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 94.30%				
Target Compounds							Qvalue
16) Acetone	2.154	43	1865	0.633	ug/L		86
17) 2-Propanol	2.294	45	991m	1.705	ug/L		
19) Carbon Disulfide	2.276	76	1650	0.215	ug/L		96
33) cis-1,2-Dichloroethene	4.013	96	3459	0.869	ug/L	#	73
53) Trichloroethene	6.513	130	6732	1.723	ug/L		91

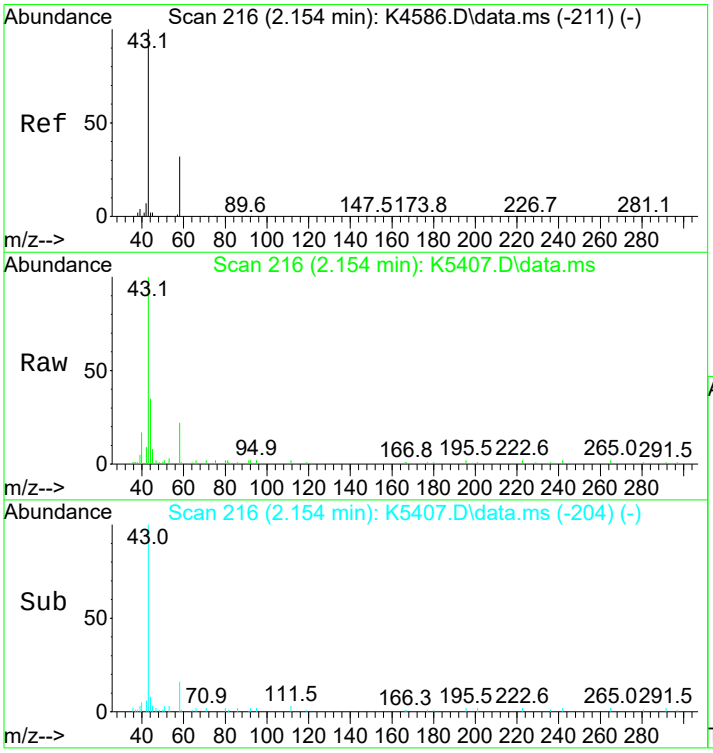
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5407.D
Acq On : 30 Aug 2024 03:54 pm
Operator : F.NAEGLER
Sample : R2408140-006
Misc : CEC 26473 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 30 16:18:20 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

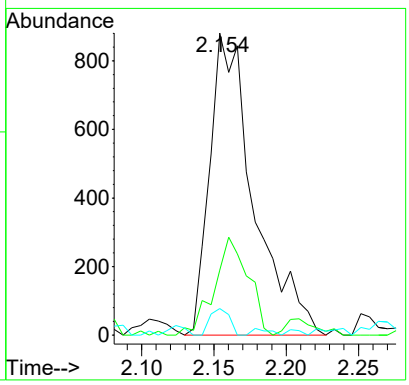


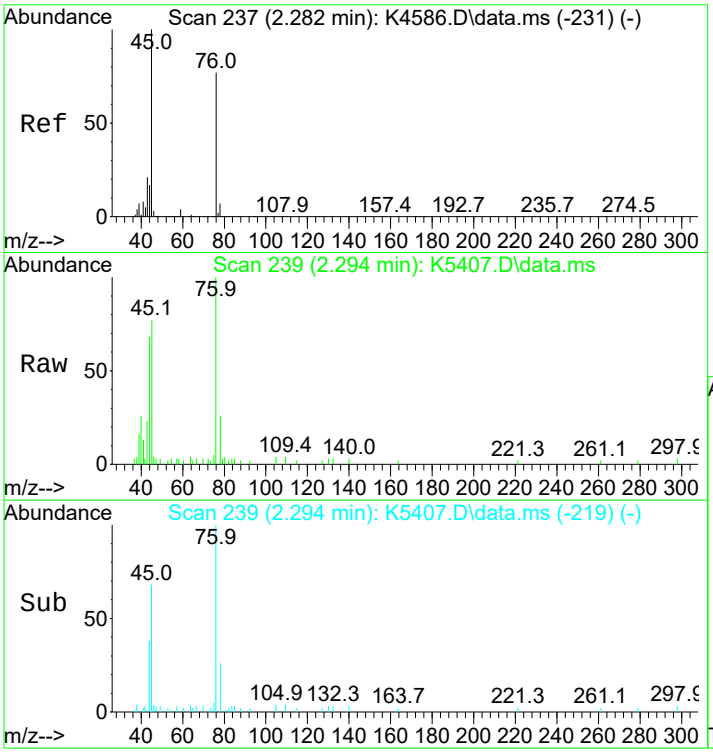


#16
Acetone
Concen: 0.63 ug/L
RT: 2.154 min Scan# 216
Delta R.T. 0.000 min
Lab File: K5407.D
Acq: 30 Aug 2024 03:54 pm

Tgt Ion: 43 Resp: 1865

Ion	Ratio	Lower	Upper
43	100		
58	22.8	11.5	51.5
42	8.9	0.0	27.3

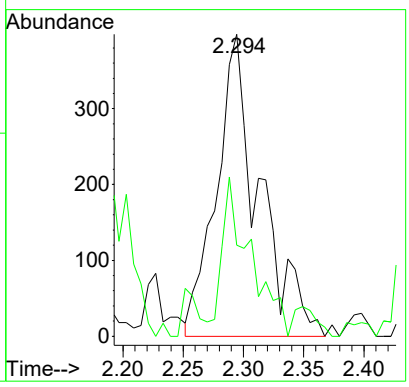


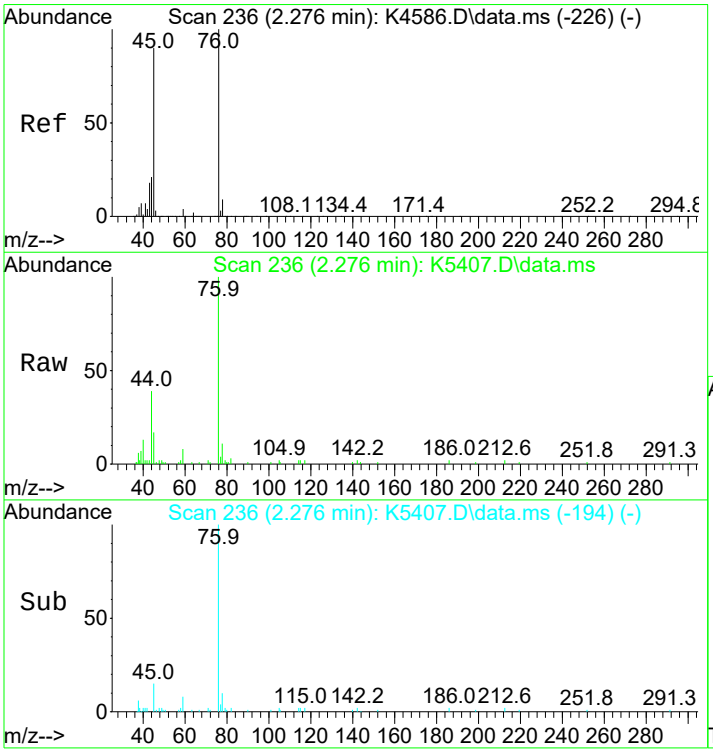


#17
2-Propanol
Concen: 1.71 ug/L m
RT: 2.294 min Scan# 239
Delta R.T. 0.012 min
Lab File: K5407.D
Acq: 30 Aug 2024 03:54 pm

Tgt Ion: 45 Resp: 991

Ion	Ratio	Lower	Upper
45	100		
43	30.2	1.4	41.4

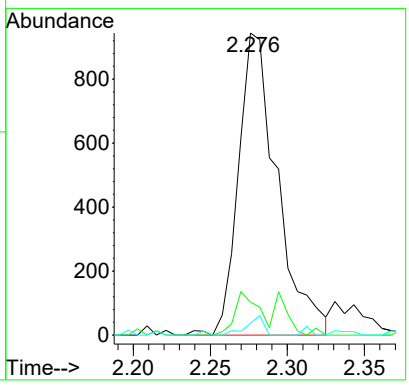


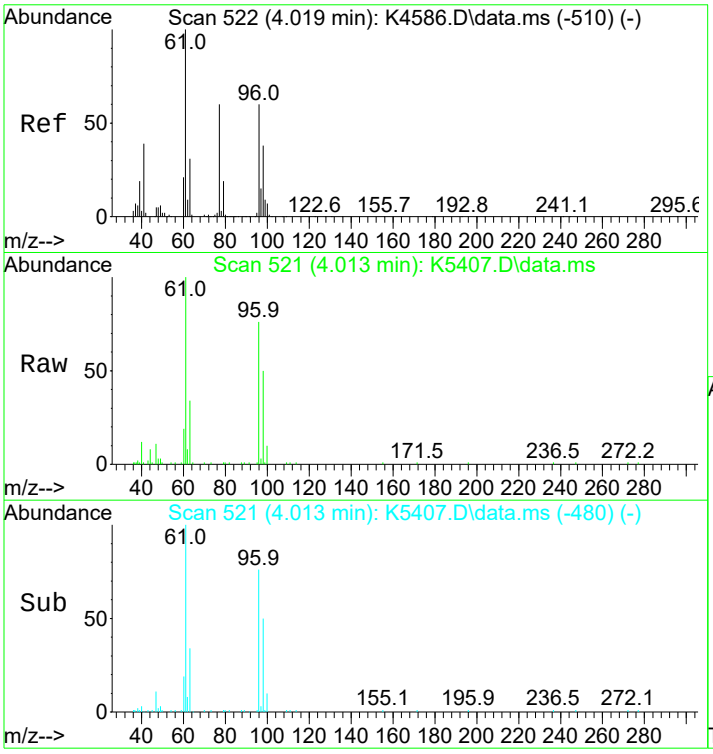


#19
Carbon Disulfide
Concen: 0.21 ug/L
RT: 2.276 min Scan# 236
Delta R.T. 0.000 min
Lab File: K5407.D
Acq: 30 Aug 2024 03:54 pm

Tgt Ion: 76 Resp: 1650

Ion	Ratio	Lower	Upper
76	100		
78	10.9	0.0	29.2
77	3.9	0.0	22.7

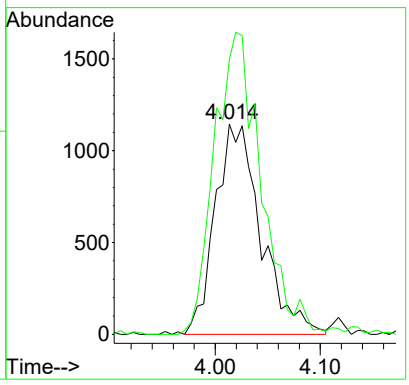


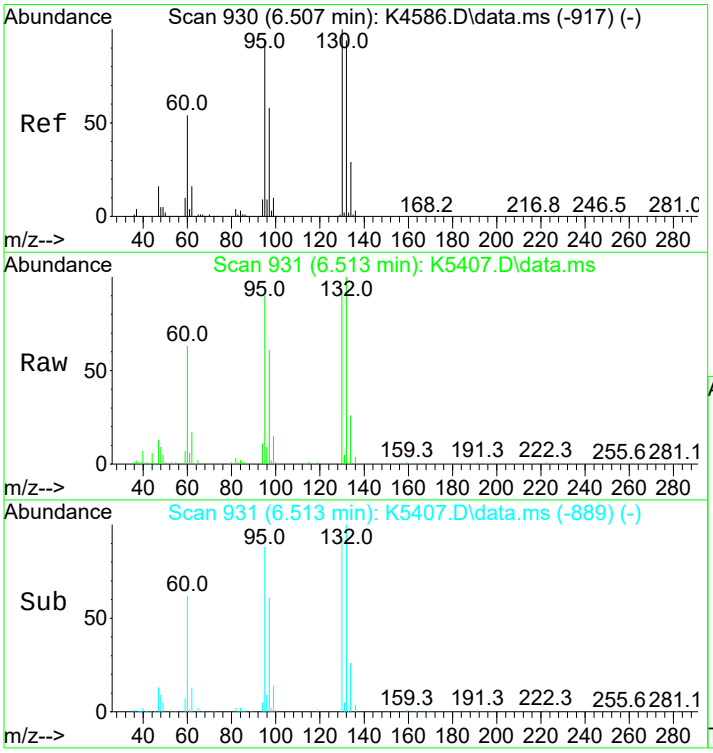


#33
cis-1,2-Dichloroethene
Concen: 0.87 ug/L
RT: 4.013 min Scan# 521
Delta R.T. -0.006 min
Lab File: K5407.D
Acq: 30 Aug 2024 03:54 pm

Tgt Ion: 96 Resp: 3459

Ion	Ratio	Lower	Upper
96	100		
61	130.7	147.9	187.9#

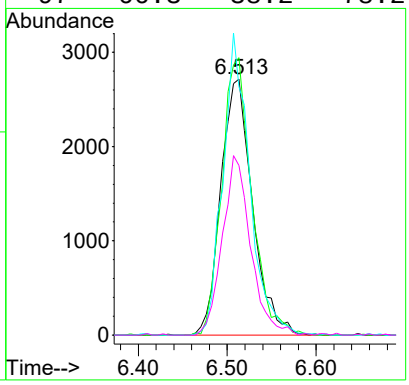




#53
Trichloroethene
Concen: 1.72 ug/L
RT: 6.513 min Scan# 931
Delta R.T. 0.006 min
Lab File: K5407.D
Acq: 30 Aug 2024 03:54 pm

Tgt Ion:130 Resp: 6732

Ion	Ratio	Lower	Upper
130	100		
132	108.4	74.0	114.0
95	97.1	74.1	114.1
97	66.3	38.2	78.2



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5402.D
Acq On : 30 Aug 2024 01:56 pm
Operator : F.NAEGLER
Sample : R2408140-007
Misc : CEC 26473 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 30 14:39:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

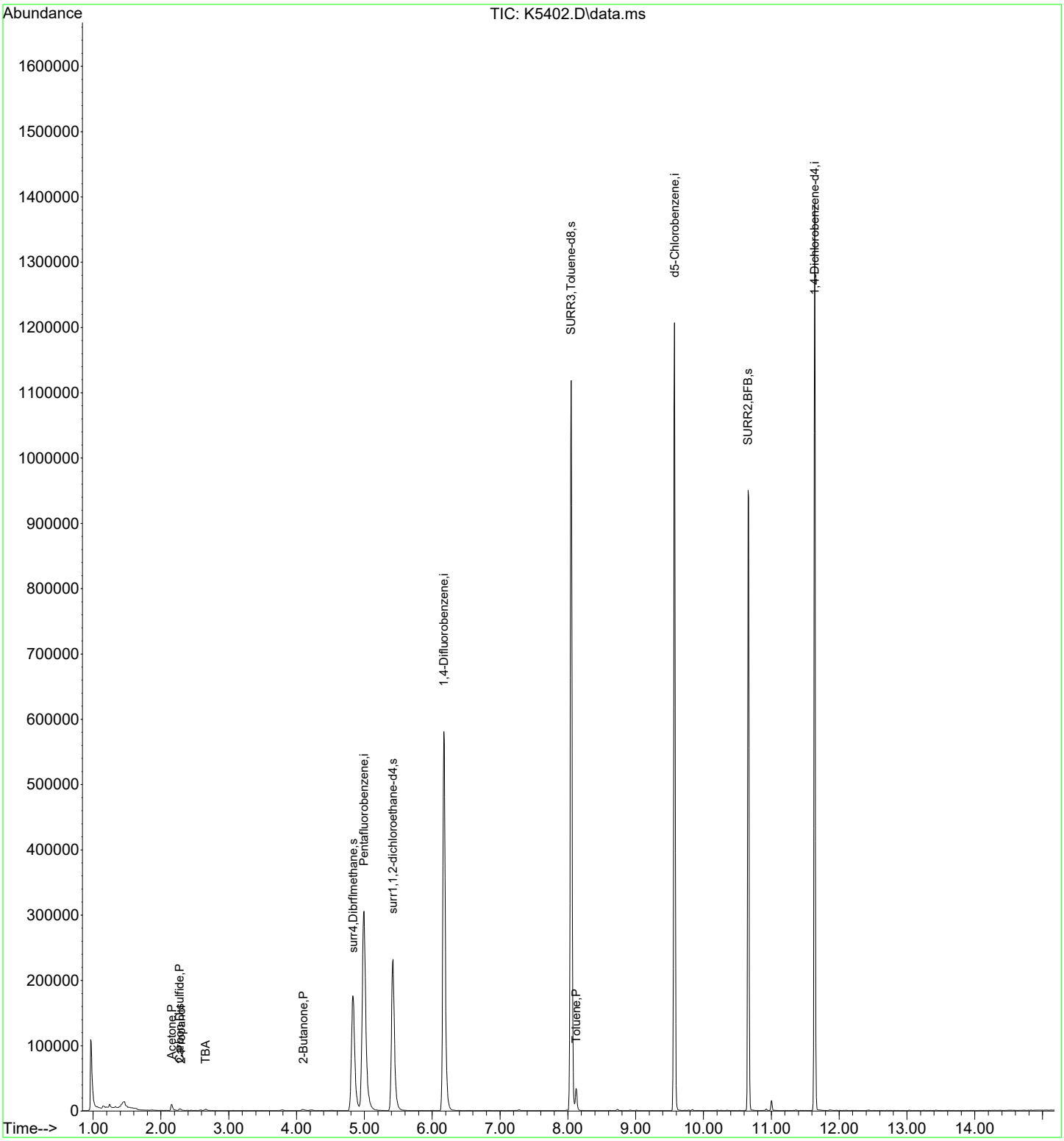
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.995	168	365984	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.171	114	614489	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.573	117	542823	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	248027	50.00	ug/L	# 0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.836	113	188239	49.11	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 98.22%			
47) surr1,1,2-dichloroetha...	5.422	65	264503	50.49	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.98%			
64) SURR3,Toluene-d8	8.049	98	710425	50.51	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.02%			
69) SURR2,BFB	10.658	95	267847	48.43	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 96.86%			
Target Compounds						Qvalue
16) Acetone	2.160	43	12028	4.106	ug/L	97
17) 2-Propanol	2.294	45	1434	2.482	ug/L	100
19) Carbon Disulfide	2.276	76	3292	0.431	ug/L	98
23) TBA	2.660	59	2867	2.677	ug/L	100
34) 2-Butanone	4.099	43	4058	1.161	ug/L	96
65) Toluene	8.122	91	22613	1.516	ug/L	97

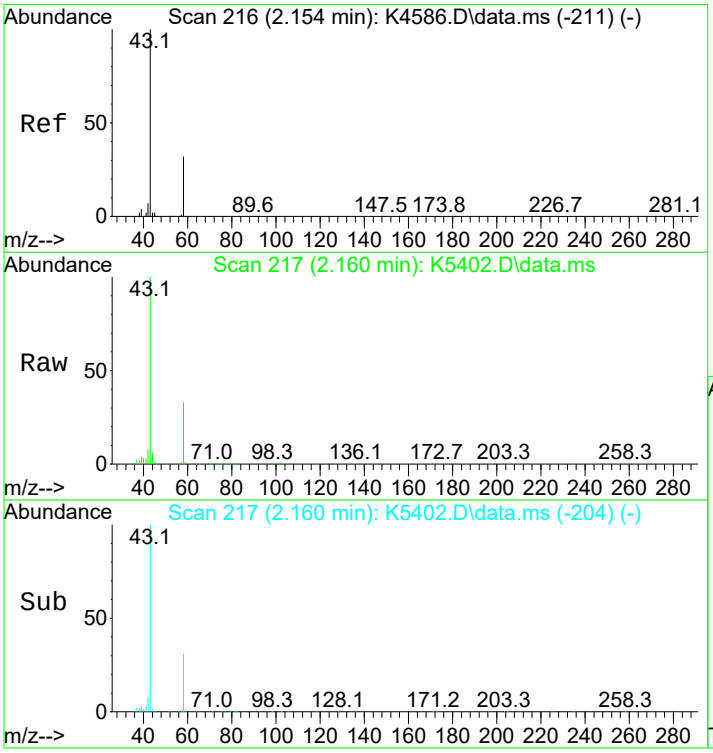
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5402.D
Acq On : 30 Aug 2024 01:56 pm
Operator : F.NAEGLER
Sample : R2408140-007
Misc : CEC 26473 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 30 14:39:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

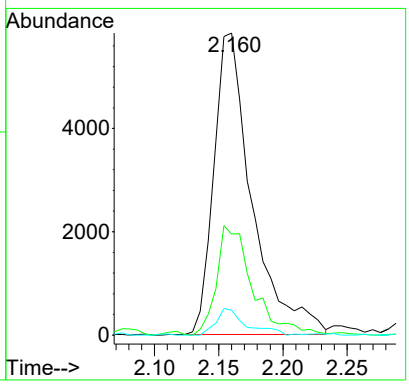


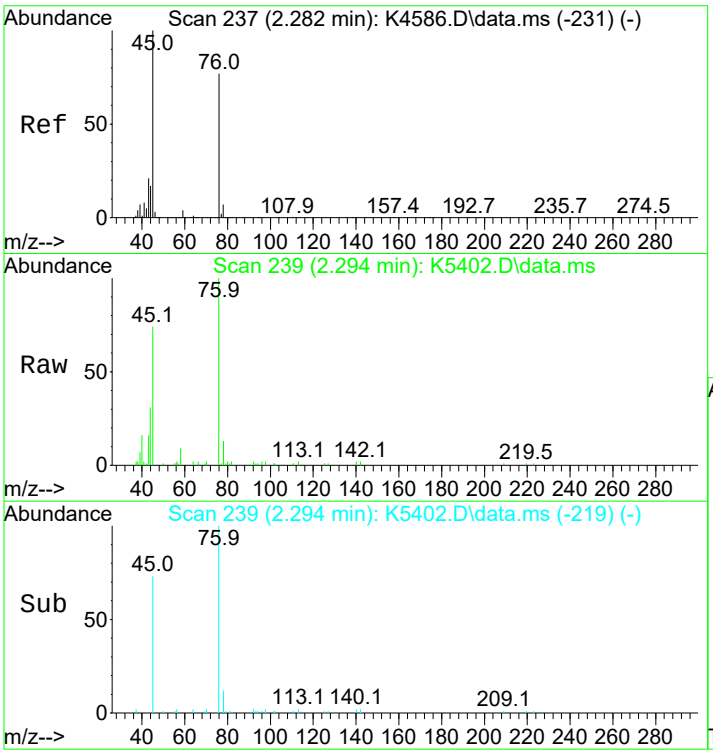


#16
Acetone
Concen: 4.11 ug/L
RT: 2.160 min Scan# 217
Delta R.T. 0.006 min
Lab File: K5402.D
Acq: 30 Aug 2024 01:56 pm

Tgt Ion: 43 Resp: 12028

Ion	Ratio	Lower	Upper
43	100		
58	33.5	11.5	51.5
42	8.3	0.0	27.3

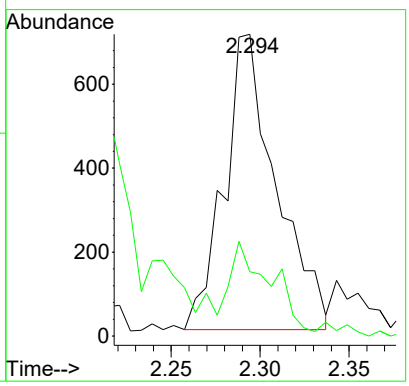


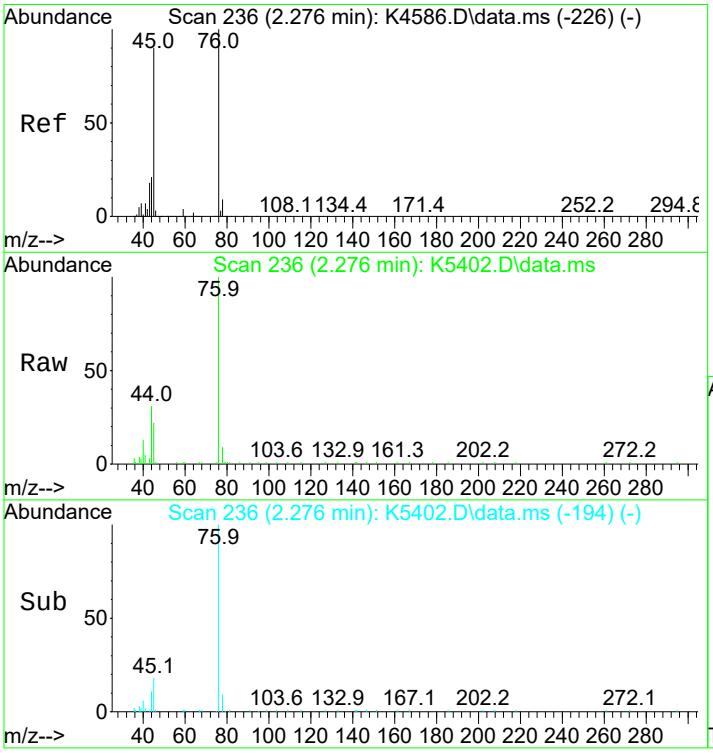


#17
2-Propanol
Concen: 2.48 ug/L
RT: 2.294 min Scan# 239
Delta R.T. 0.012 min
Lab File: K5402.D
Acq: 30 Aug 2024 01:56 pm

Tgt Ion: 45 Resp: 1434

Ion	Ratio	Lower	Upper
45	100		
43	21.3	1.4	41.4

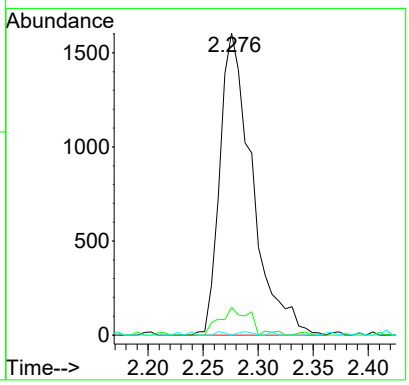


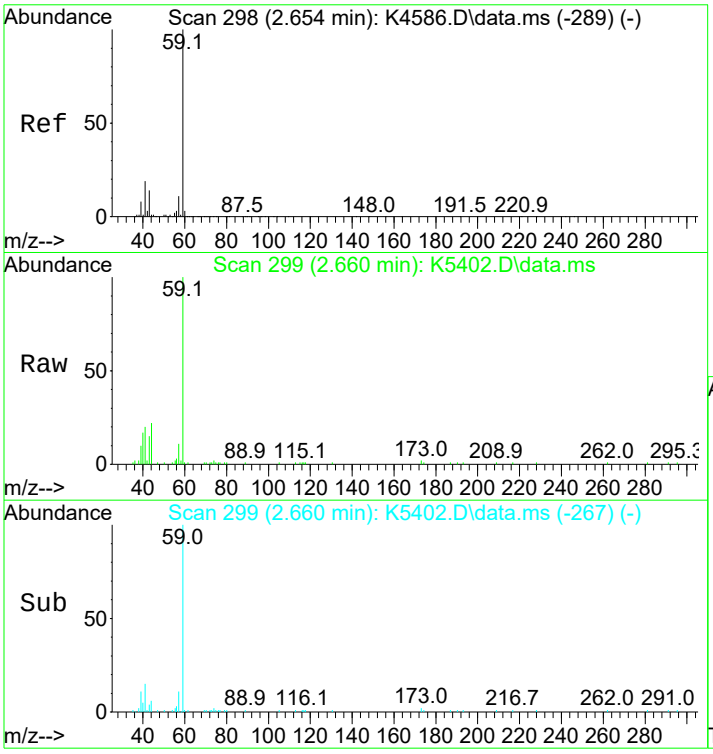


#19
Carbon Disulfide
Concen: 0.43 ug/L
RT: 2.276 min Scan# 236
Delta R.T. -0.000 min
Lab File: K5402.D
Acq: 30 Aug 2024 01:56 pm

Tgt Ion: 76 Resp: 3292

Ion	Ratio	Lower	Upper
76	100		
78	9.2	0.0	29.2
77	0.0	0.0	22.7

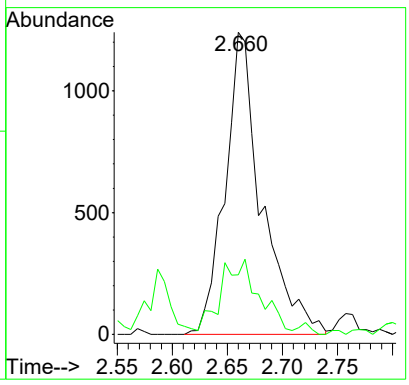


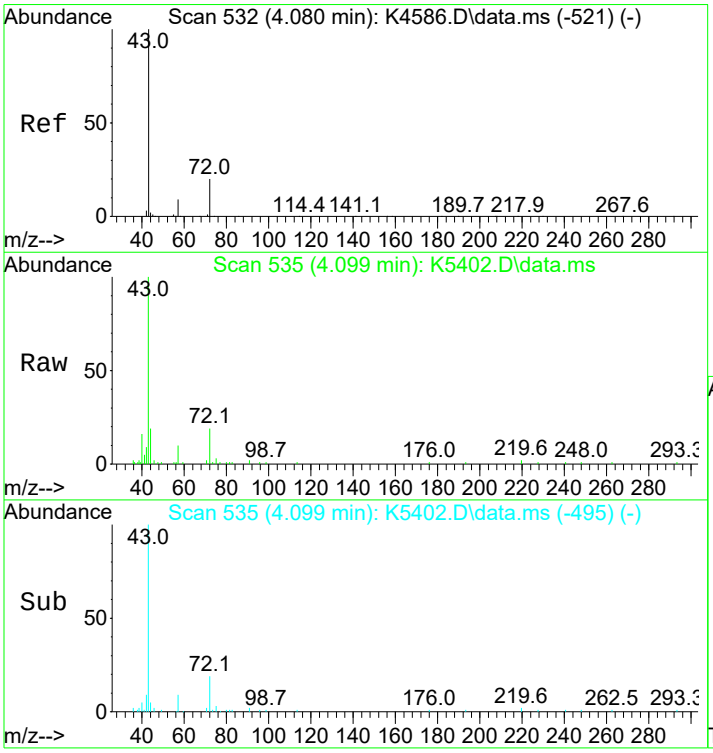


#23
TBA
Concen: 2.68 ug/L
RT: 2.660 min Scan# 299
Delta R.T. 0.006 min
Lab File: K5402.D
Acq: 30 Aug 2024 01:56 pm

Tgt Ion: 59 Resp: 2867

Ion	Ratio	Lower	Upper
59	100		
41	19.7	0.0	39.7

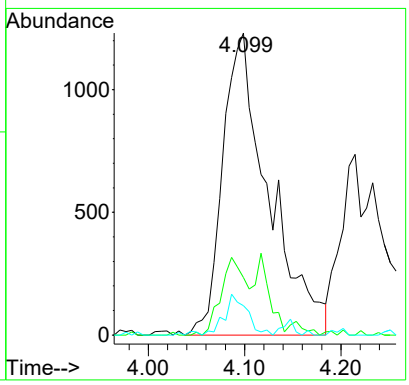


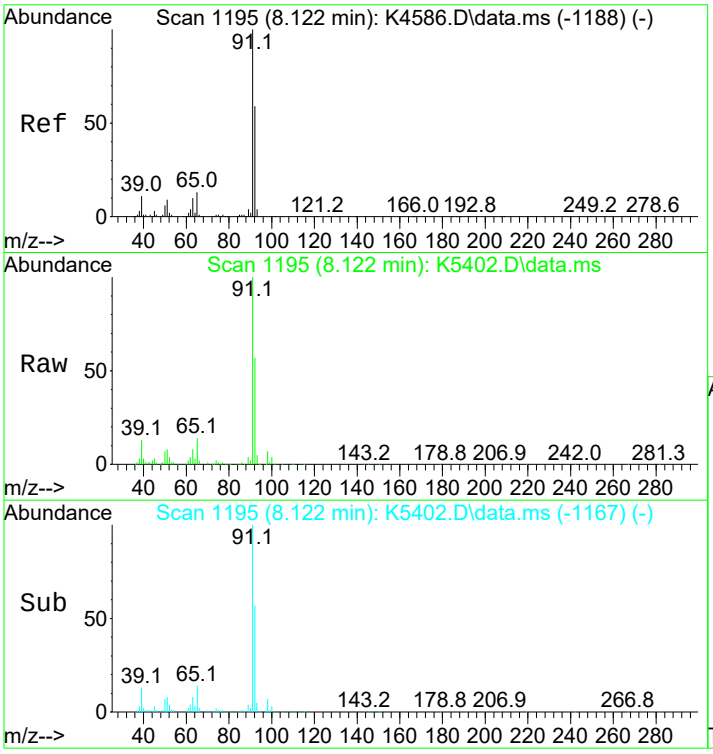


#34
2-Butanone
Concen: 1.16 ug/L
RT: 4.099 min Scan# 535
Delta R.T. 0.018 min
Lab File: K5402.D
Acq: 30 Aug 2024 01:56 pm

Tgt Ion: 43 Resp: 4058

Ion	Ratio	Lower	Upper
43	100		
72	19.1	1.2	41.2
57	9.7	0.0	29.2

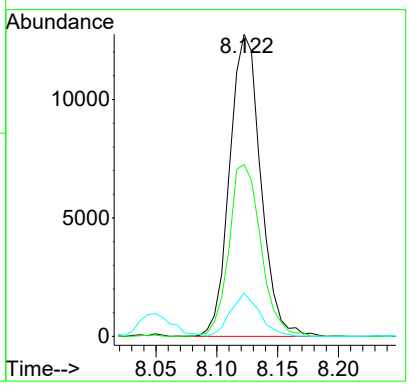




#65
Toluene
Concen: 1.52 ug/L
RT: 8.122 min Scan# 1195
Delta R.T. -0.000 min
Lab File: K5402.D
Acq: 30 Aug 2024 01:56 pm

Tgt Ion: 91 Resp: 22613

Ion	Ratio	Lower	Upper
91	100		
92	56.9	39.0	79.0
65	14.3	0.0	32.8

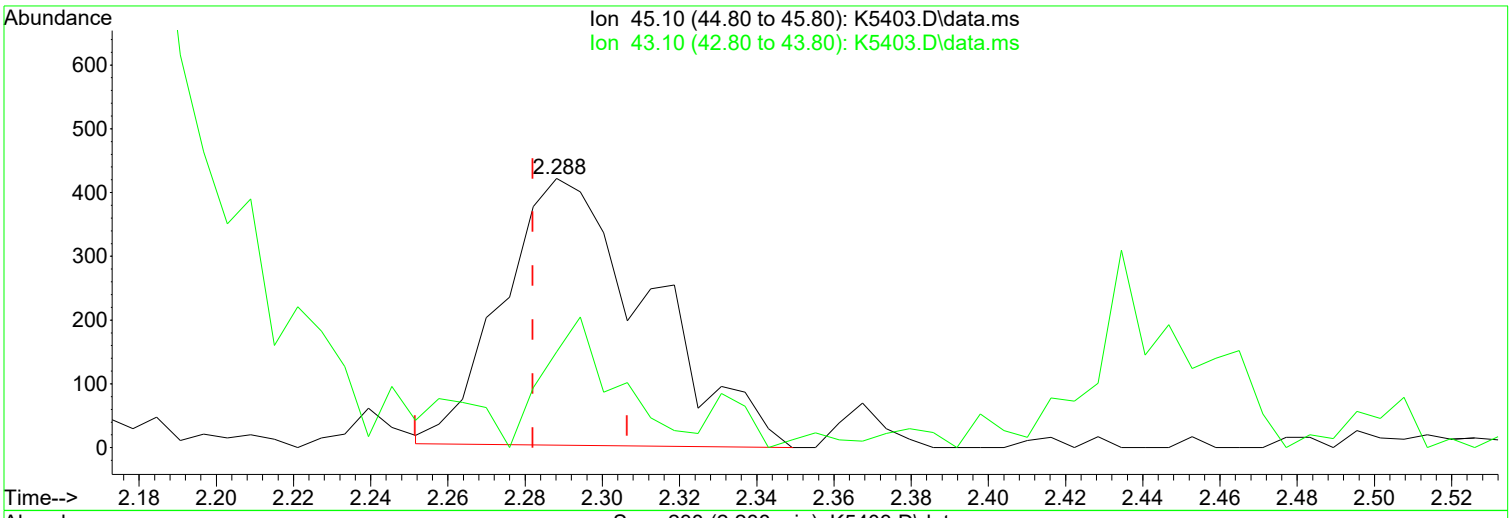


1st FN 09/03/24
2nd 09/04/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5403.D
Acq On : 30 Aug 2024 02:19 pm
Operator : F.NAEGLER
Sample : R2408140-008
Misc : CEC 26473 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 30 14:40:20 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration



TIC: K5403.D\data.ms

(17) 2-Propanol

2.288min (+ 0.006) 1.89 ug/L m

response 1105

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	21.40	35.55
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

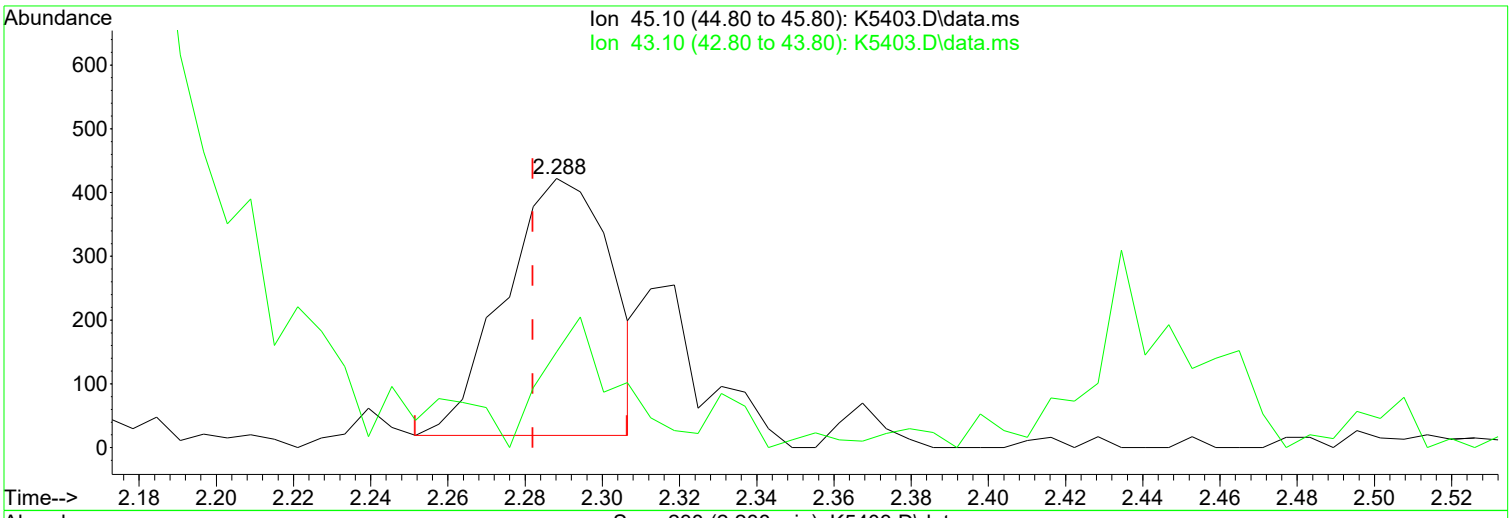
09/03/24

1st FN 09/03/24
2nd 09/04/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5403.D
Acq On : 30 Aug 2024 02:19 pm
Operator : F.NAEGLER
Sample : R2408140-008
Misc : CEC 26473 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 30 14:40:20 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration



TIC: K5403.D\data.ms

(17) 2-Propanol

2.288min (+ 0.006) 1.32 ug/L

response 775

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	21.40	35.55
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/03/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5403.D
Acq On : 30 Aug 2024 02:19 pm
Operator : F.NAEGLER
Sample : R2408140-008
Misc : CEC 26473 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 30 14:40:20 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

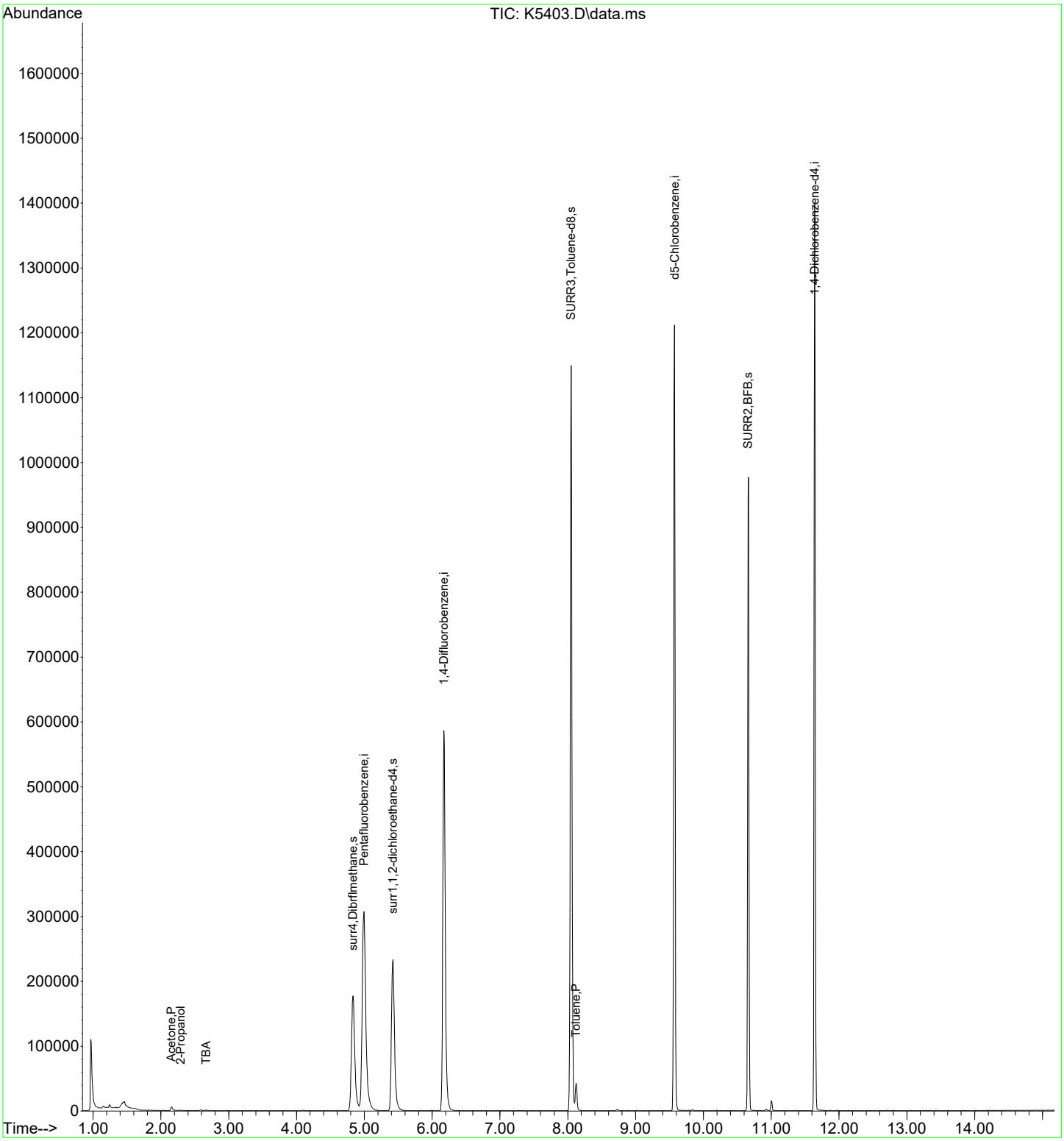
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.995	168	371283	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.172	114	614544	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.573	117	547140	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	253821	50.00	ug/L	# 0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.830	113	191469	49.95	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 99.90%			
47) surr1,1,2-dichloroetha...	5.422	65	268453	51.23	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.46%			
64) SURR3,Toluene-d8	8.049	98	725164	51.55	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 103.10%			
69) SURR2,BFB	10.659	95	273886	49.52	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.04%			
Target Compounds						Qvalue
16) Acetone	2.154	43	7362	2.477	ug/L	99
17) 2-Propanol	2.288	45	1105m	1.885	ug/L	
23) TBA	2.666	59	717	0.660	ug/L	93
65) Toluene	8.122	91	27886	1.869	ug/L	98

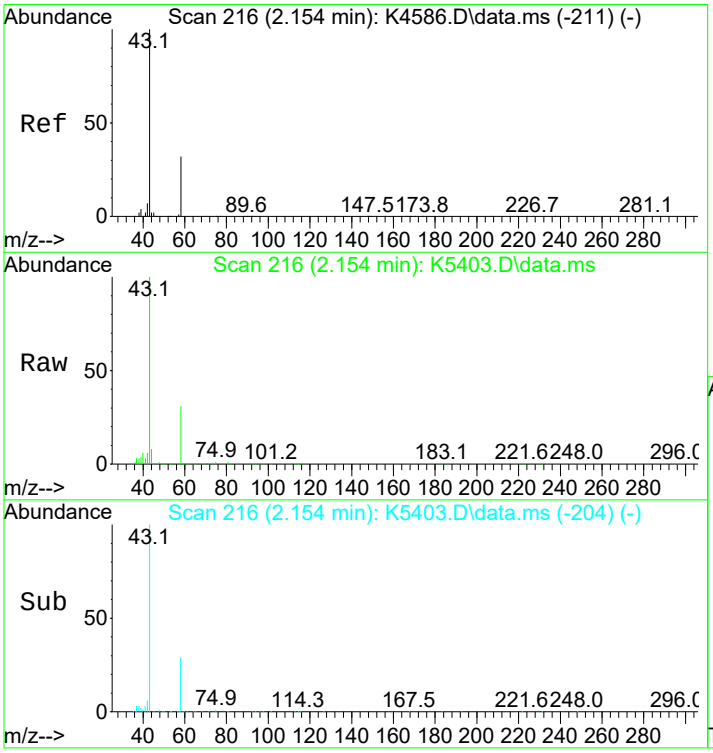
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5403.D
Acq On : 30 Aug 2024 02:19 pm
Operator : F.NAEGLER
Sample : R2408140-008
Misc : CEC 26473 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 30 14:40:20 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

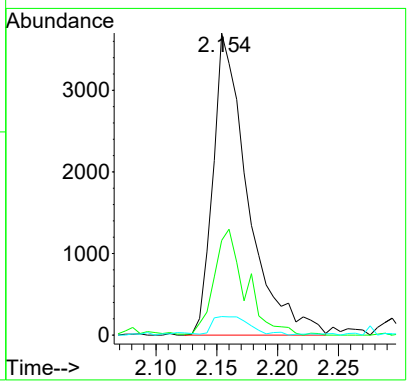


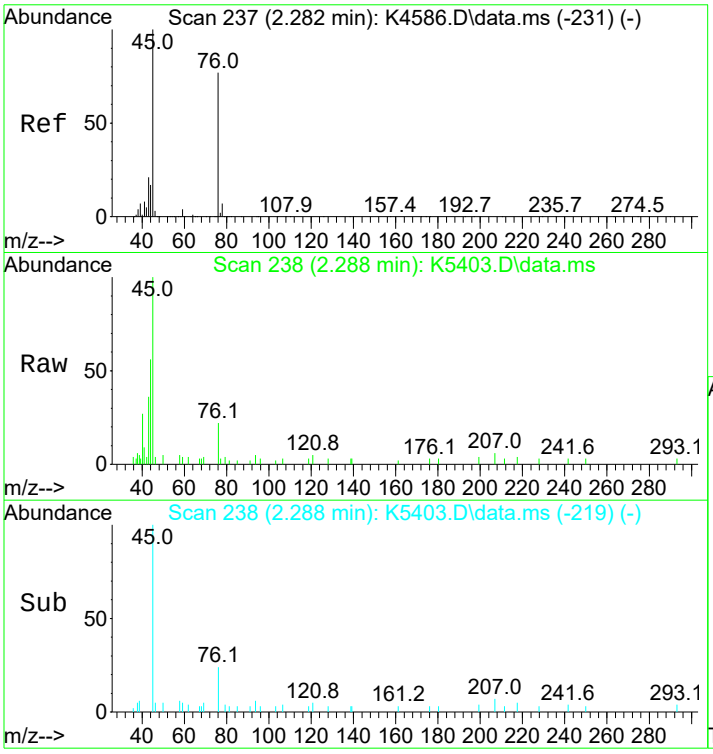


#16
Acetone
Concen: 2.48 ug/L
RT: 2.154 min Scan# 216
Delta R.T. 0.000 min
Lab File: K5403.D
Acq: 30 Aug 2024 02:19 pm

Tgt Ion: 43 Resp: 7362

Ion	Ratio	Lower	Upper
43	100		
58	31.3	11.5	51.5
42	6.1	0.0	27.3

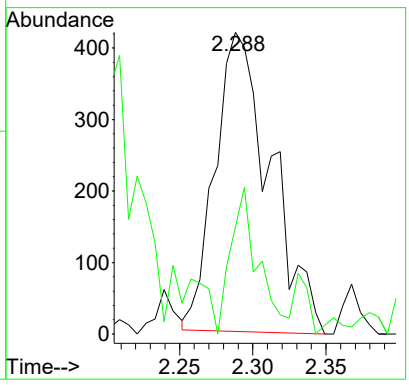


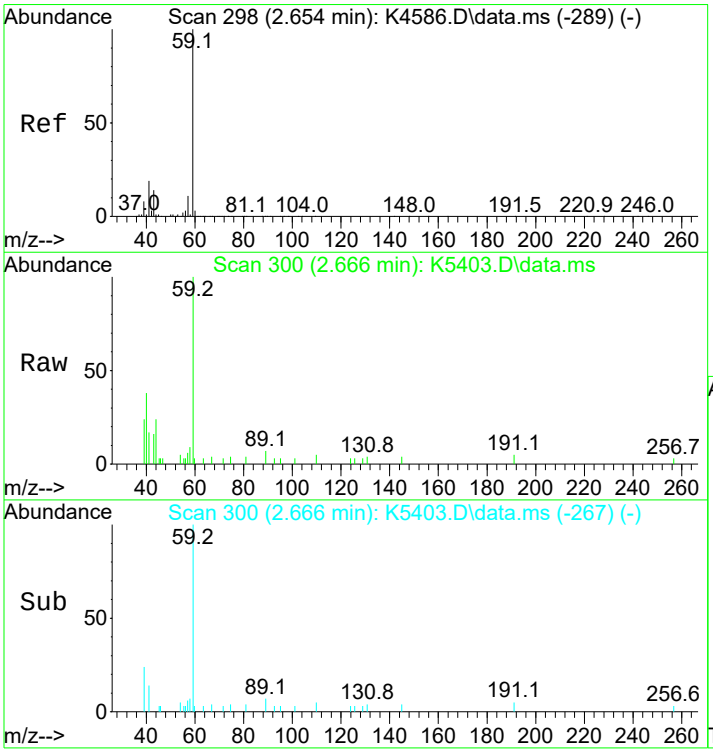


#17
2-Propanol
Concen: 1.89 ug/L m
RT: 2.288 min Scan# 238
Delta R.T. 0.006 min
Lab File: K5403.D
Acq: 30 Aug 2024 02:19 pm

Tgt Ion: 45 Resp: 1105

Ion	Ratio	Lower	Upper
45	100		
43	35.5	1.4	41.4

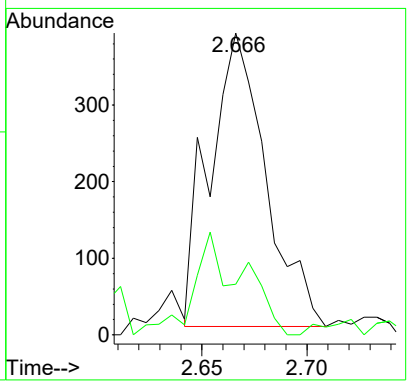


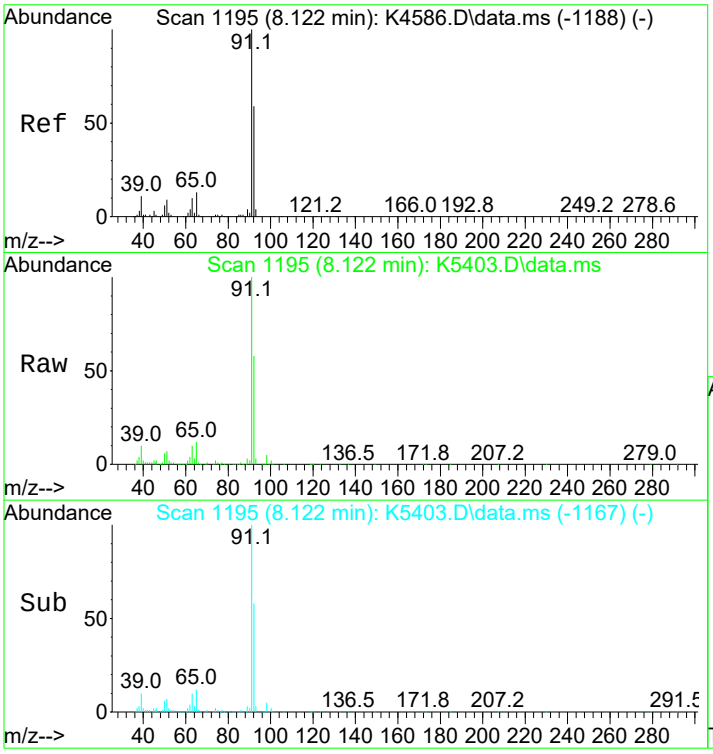


#23
TBA
Concen: 0.66 ug/L
RT: 2.666 min Scan# 300
Delta R.T. 0.012 min
Lab File: K5403.D
Acq: 30 Aug 2024 02:19 pm

Tgt Ion: 59 Resp: 717

Ion	Ratio	Lower	Upper
59	100		
41	16.3	0.0	39.7

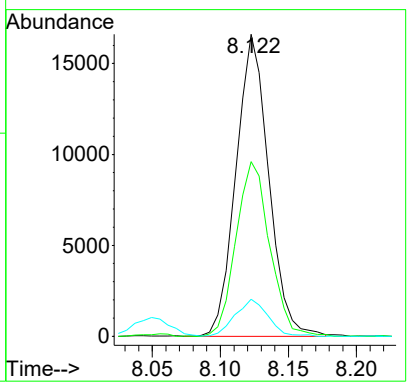




#65
Toluene
Concen: 1.87 ug/L
RT: 8.122 min Scan# 1195
Delta R.T. 0.000 min
Lab File: K5403.D
Acq: 30 Aug 2024 02:19 pm

Tgt Ion: 91 Resp: 27886

Ion	Ratio	Lower	Upper
91	100		
92	57.8	39.0	79.0
65	12.2	0.0	32.8



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5408.D
Acq On : 30 Aug 2024 04:18 pm
Operator : F.NAEGLER
Sample : R2408140-009
Misc : CEC 26473 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Aug 31 09:38:36 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

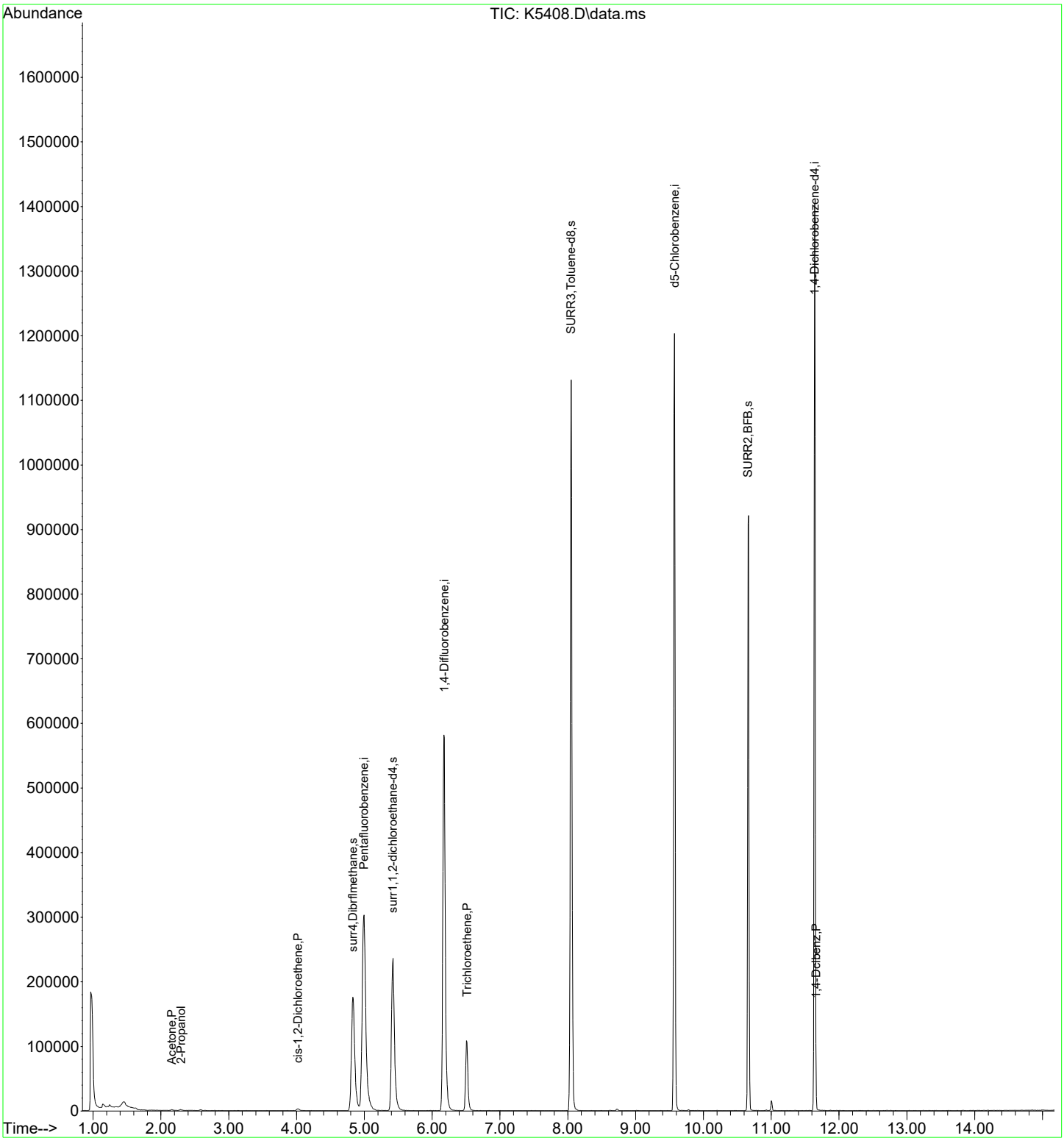
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.995	168	366890	50.00	ug/L		0.00
42) 1,4-Difluorobenzene	6.178	114	608772	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.574	117	541470	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	252229	50.00	ug/L	#	0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.830	113	187383	49.34	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 98.68%				
47) surr1,1,2-dichloroetha...	5.422	65	267443	51.53	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 103.06%				
64) SURR3,Toluene-d8	8.049	98	707726	50.79	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.58%				
69) SURR2,BFB	10.659	95	259143	47.30	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 94.60%				
Target Compounds							Qvalue
16) Acetone	2.160	43	1702	0.580	ug/L		70
17) 2-Propanol	2.294	45	2078	3.588	ug/L		96
33) cis-1,2-Dichloroethene	4.020	96	1875	0.472	ug/L	#	53
53) Trichloroethene	6.513	130	45407	11.761	ug/L		99
105) 1,4-Dclbenz	11.659	146	1761	0.226	ug/L	#	78

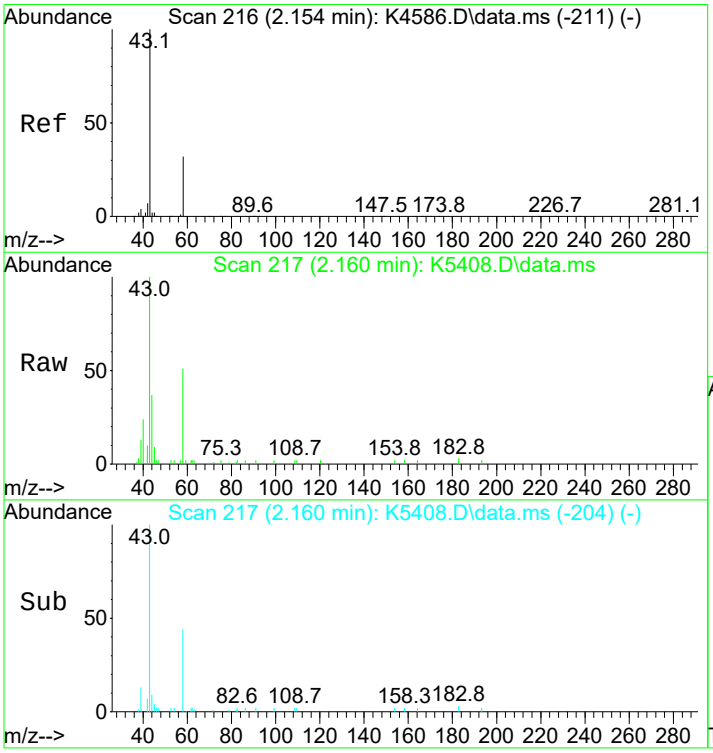
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5408.D
Acq On : 30 Aug 2024 04:18 pm
Operator : F.NAEGLER
Sample : R2408140-009
Misc : CEC 26473 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Aug 31 09:38:36 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

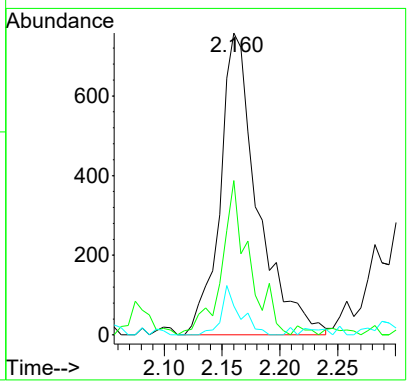


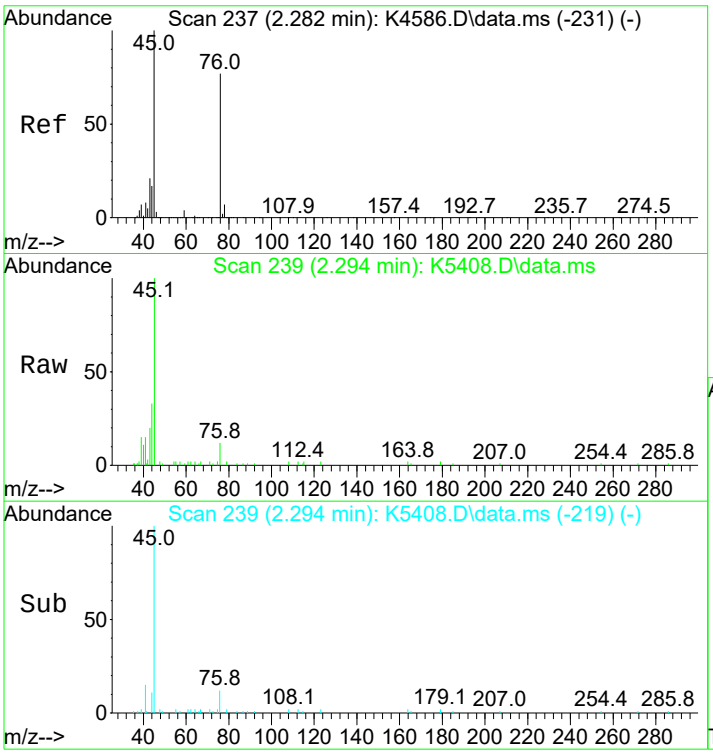


#16
Acetone
Concen: 0.58 ug/L
RT: 2.160 min Scan# 217
Delta R.T. 0.006 min
Lab File: K5408.D
Acq: 30 Aug 2024 04:18 pm

Tgt Ion: 43 Resp: 1702

Ion	Ratio	Lower	Upper
43	100		
58	51.2	11.5	51.5
42	9.6	0.0	27.3

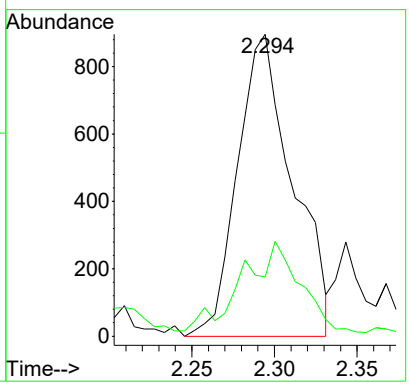


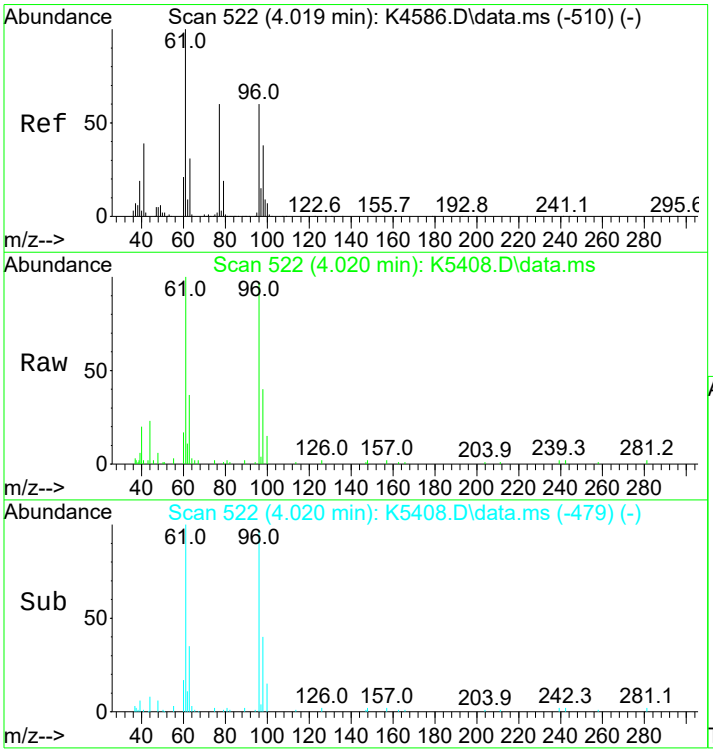


#17
2-Propanol
Concen: 3.59 ug/L
RT: 2.294 min Scan# 239
Delta R.T. 0.012 min
Lab File: K5408.D
Acq: 30 Aug 2024 04:18 pm

Tgt Ion: 45 Resp: 2078

Ion	Ratio	Lower	Upper
45	100		
43	19.6	1.4	41.4

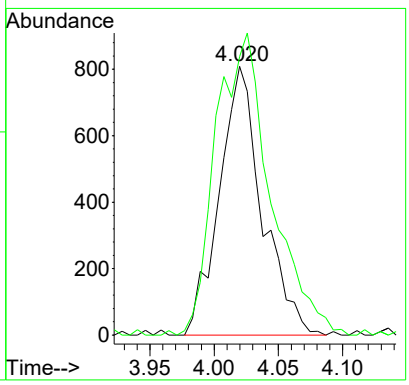


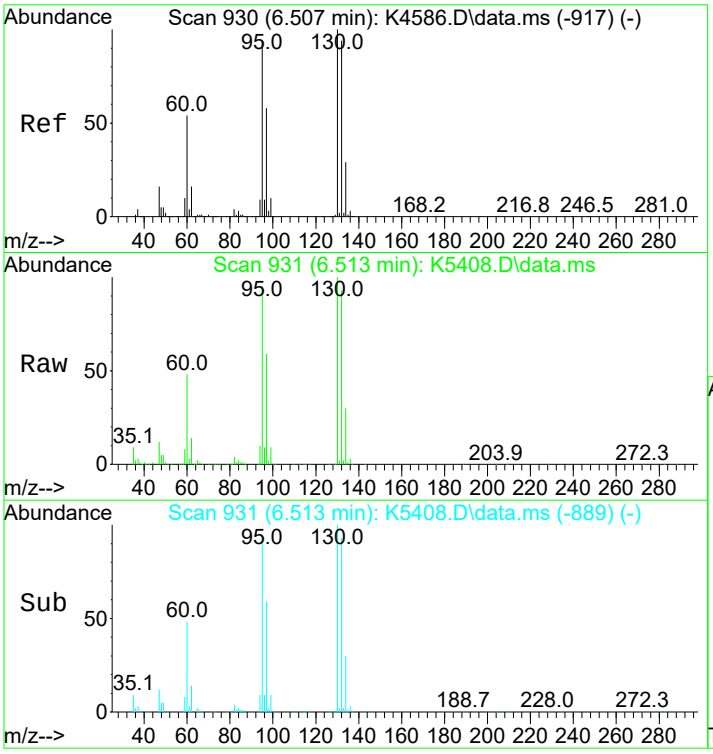


#33
cis-1,2-Dichloroethene
Concen: 0.47 ug/L
RT: 4.020 min Scan# 522
Delta R.T. 0.000 min
Lab File: K5408.D
Acq: 30 Aug 2024 04:18 pm

Tgt Ion: 96 Resp: 1875

Ion	Ratio	Lower	Upper
96	100		
61	103.6	147.9	187.9#

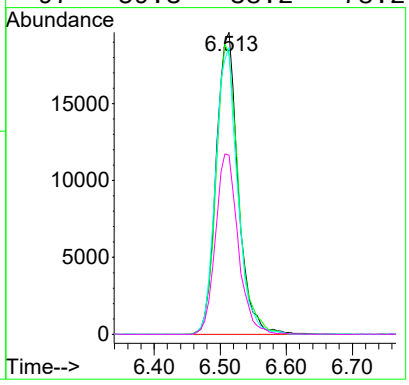


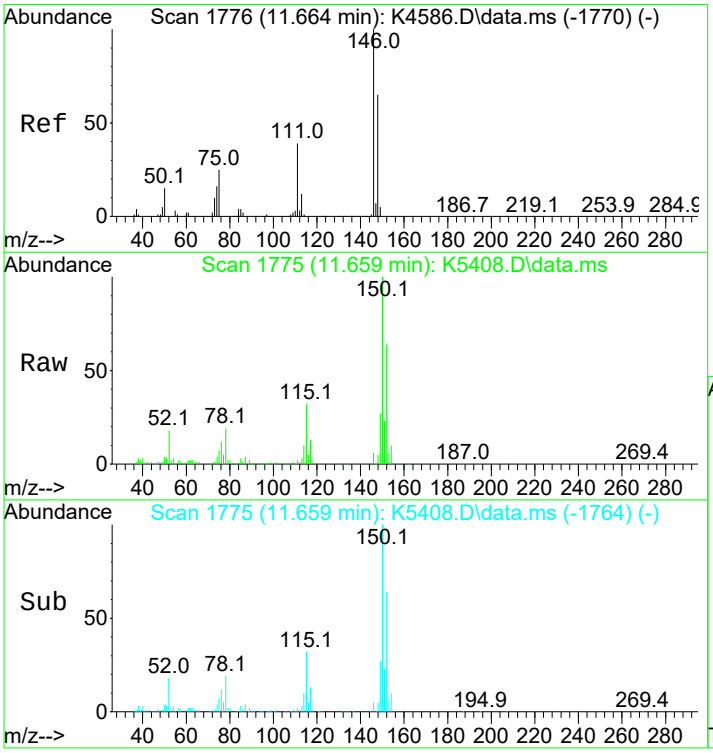


#53
Trichloroethene
Concen: 11.76 ug/L
RT: 6.513 min Scan# 931
Delta R.T. 0.006 min
Lab File: K5408.D
Acq: 30 Aug 2024 04:18 pm

Tgt Ion:130 Resp: 45407

Ion	Ratio	Lower	Upper
130	100		
132	92.7	74.0	114.0
95	94.9	74.1	114.1
97	59.3	38.2	78.2

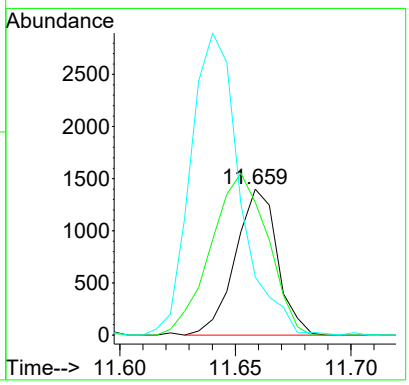




#105
1,4-Dclbenz
Concen: 0.23 ug/L
RT: 11.659 min Scan# 1775
Delta R.T. -0.006 min
Lab File: K5408.D
Acq: 30 Aug 2024 04:18 pm

Tgt Ion:146 Resp: 1761

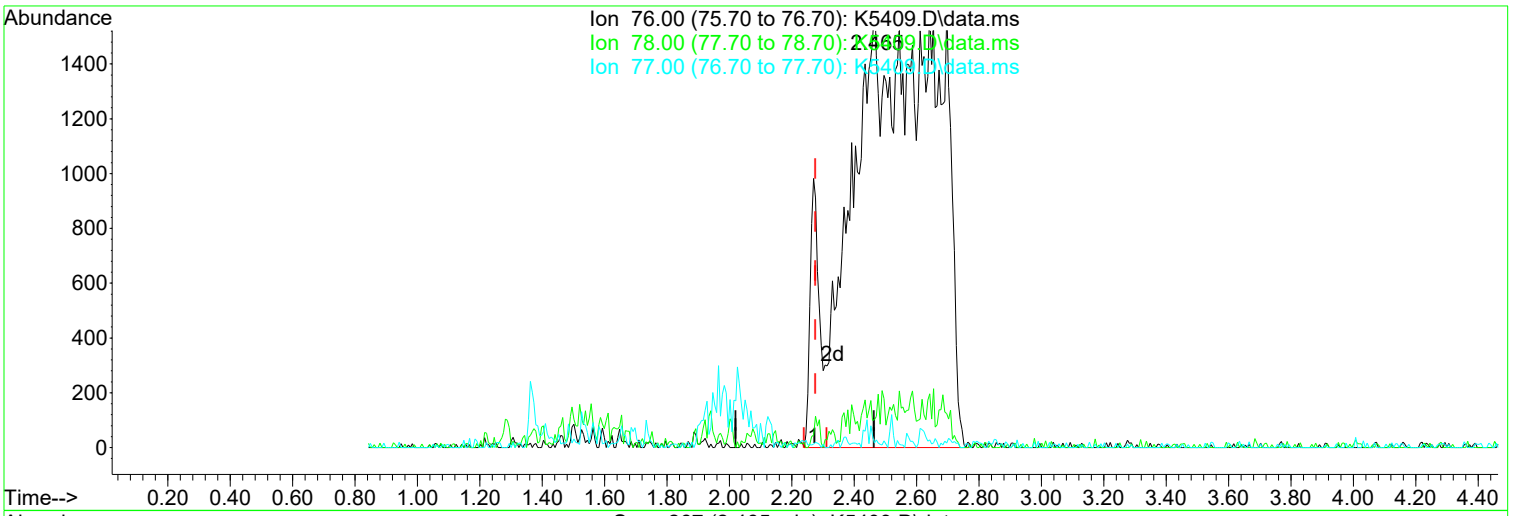
Ion	Ratio	Lower	Upper
146	100		
148	91.1	44.8	84.8#
111	40.0	18.8	58.8

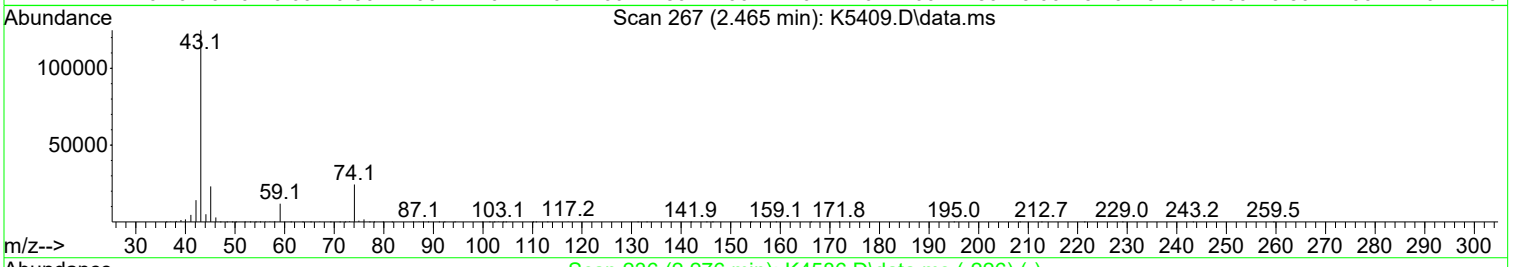


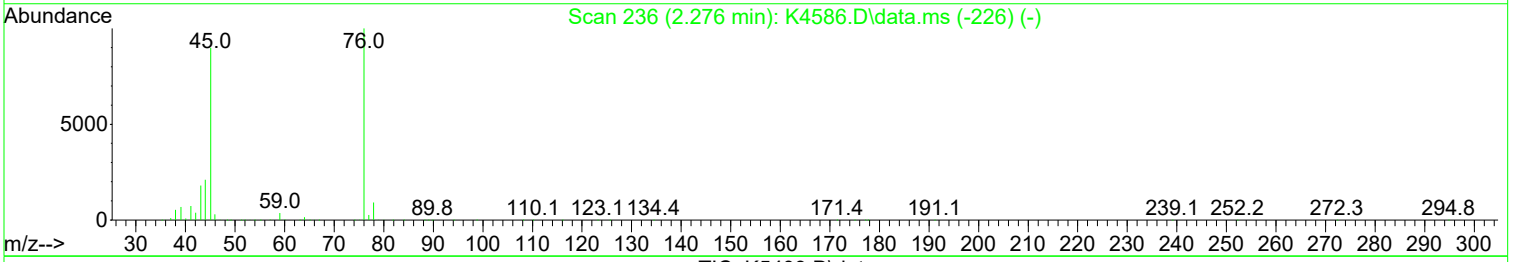
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5409.D
Acq On : 30 Aug 2024 04:42 pm
Operator : F.NAEGLER
Sample : R2408140-010
Misc : CEC 26473 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Aug 31 09:38:58 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5409.D\data.ms

(19) Carbon Disulfide (P)

2.465min (+ 0.189) 4.22 ug/L m

response 31254

Ion	Exp%	Act%
76.00	100.00	100.00
78.00	9.20	6.22
77.00	2.70	0.98
0.00	0.00	0.00

Manual Integration:

After

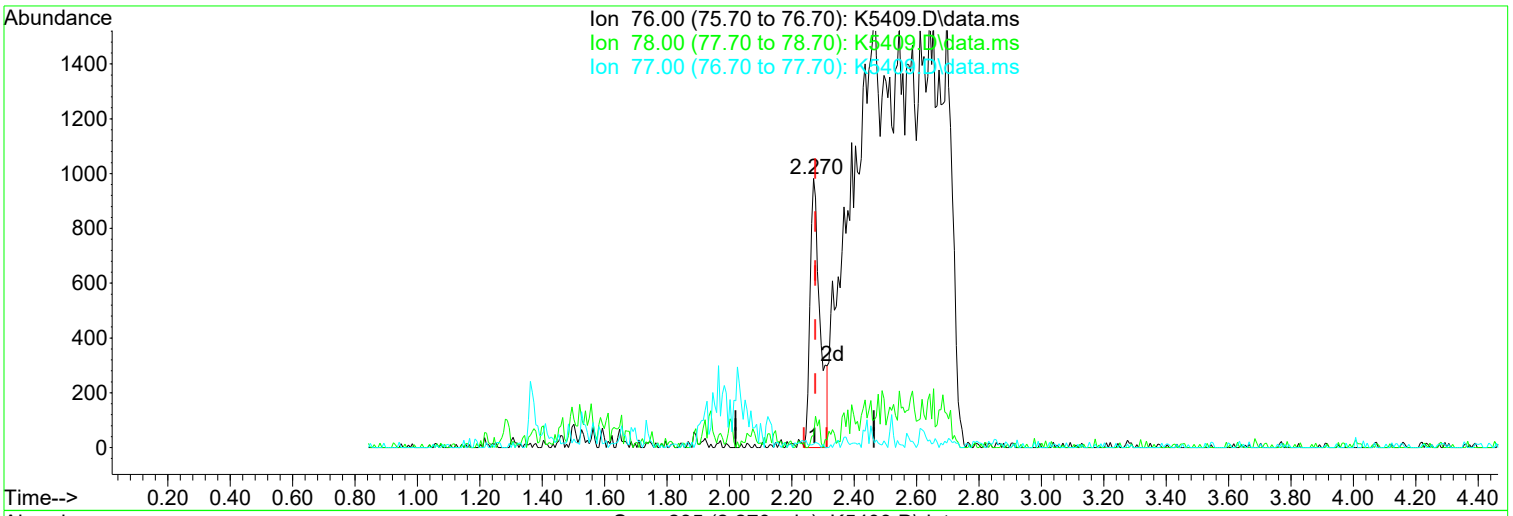
Poor integration.

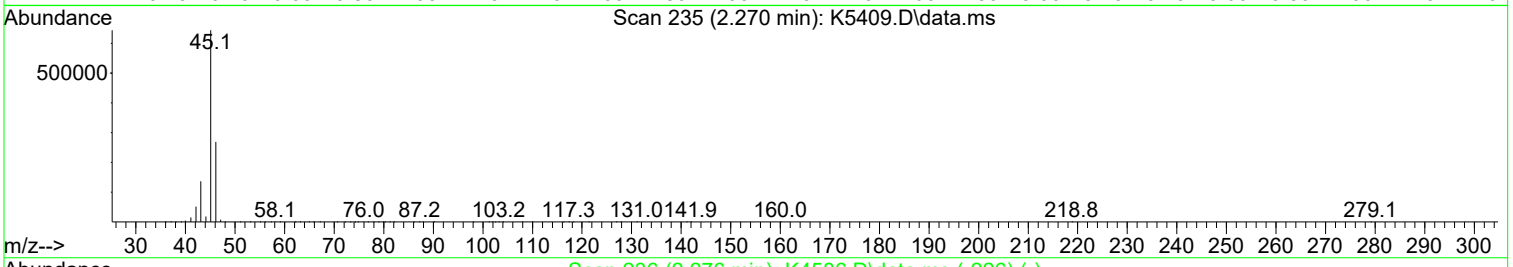
09/04/24

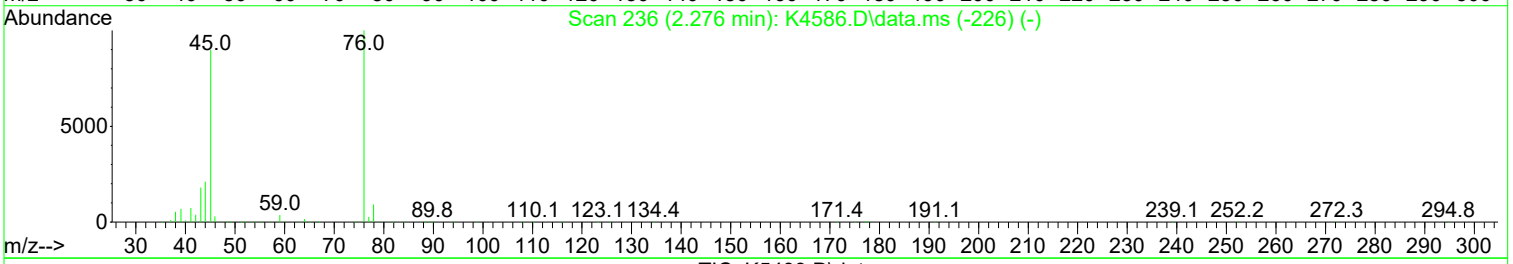
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5409.D
Acq On : 30 Aug 2024 04:42 pm
Operator : F.NAEGLER
Sample : R2408140-010
Misc : CEC 26473 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Aug 31 09:38:58 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5409.D\data.ms

(19) Carbon Disulfide (P)

2.270min (-0.006) 0.29 ug/L

response 2148

Ion	Exp%	Act%
76.00	100.00	100.00
78.00	9.20	4.58
77.00	2.70	1.32
0.00	0.00	0.00

Manual Integration:

Before

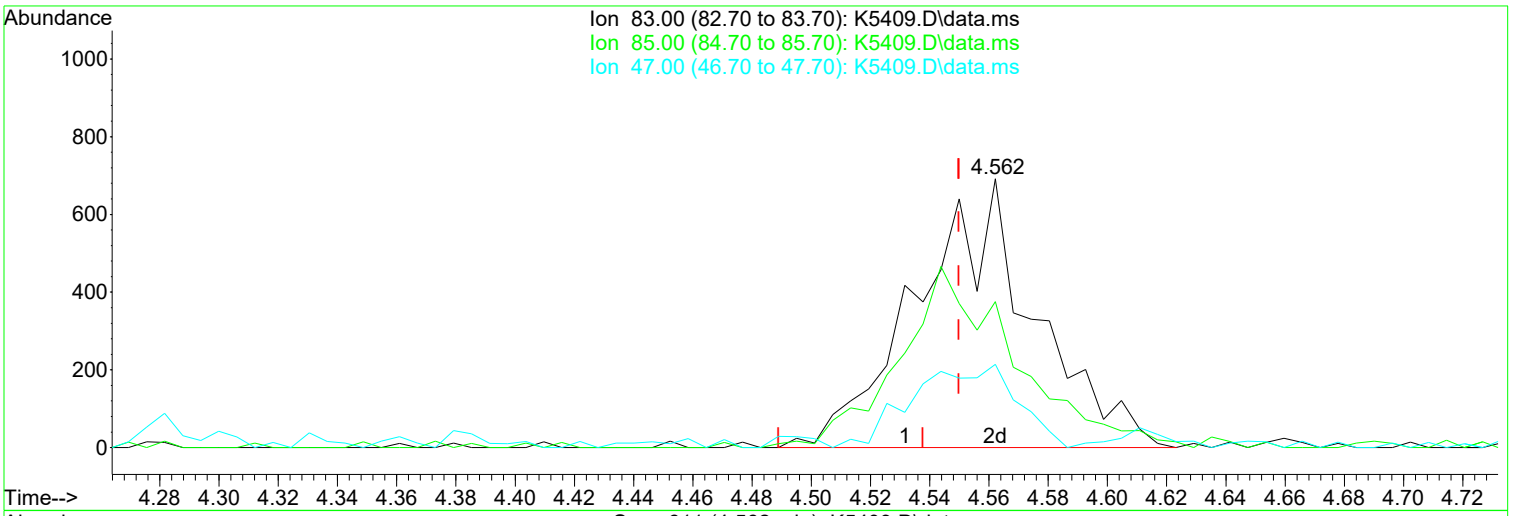
09/04/24

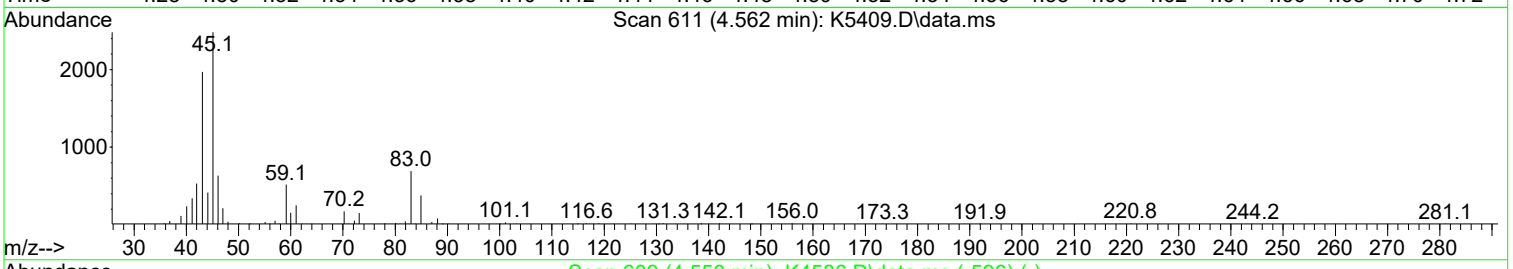
1st FN 09/04/24
2nd 09/04/24

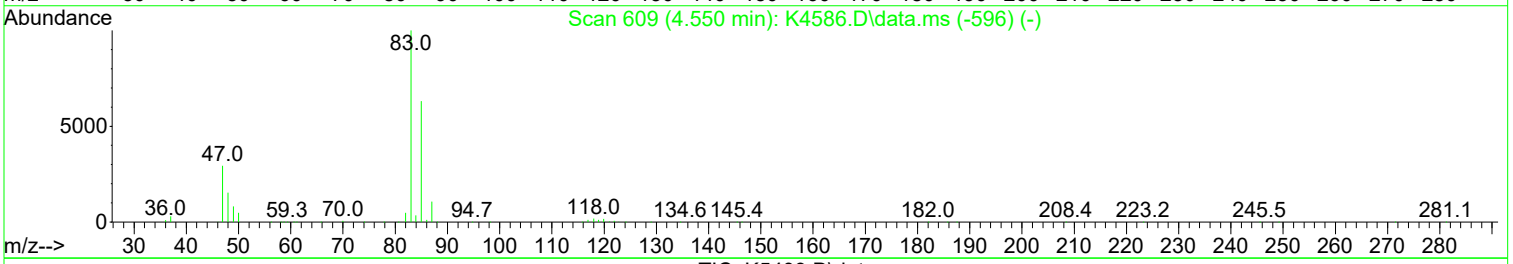
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5409.D
Acq On : 30 Aug 2024 04:42 pm
Operator : F.NAEGLER
Sample : R2408140-010
Misc : CEC 26473 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Aug 31 09:38:58 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5409.D\data.ms

(39) Chloroform (P)

4.562min (+ 0.012) 0.30 ug/L m

response 1911

Ion	Exp%	Act%
83.00	100.00	100.00
85.00	63.10	54.34
47.00	29.60	30.92
0.00	0.00	0.00

Manual Integration:

After

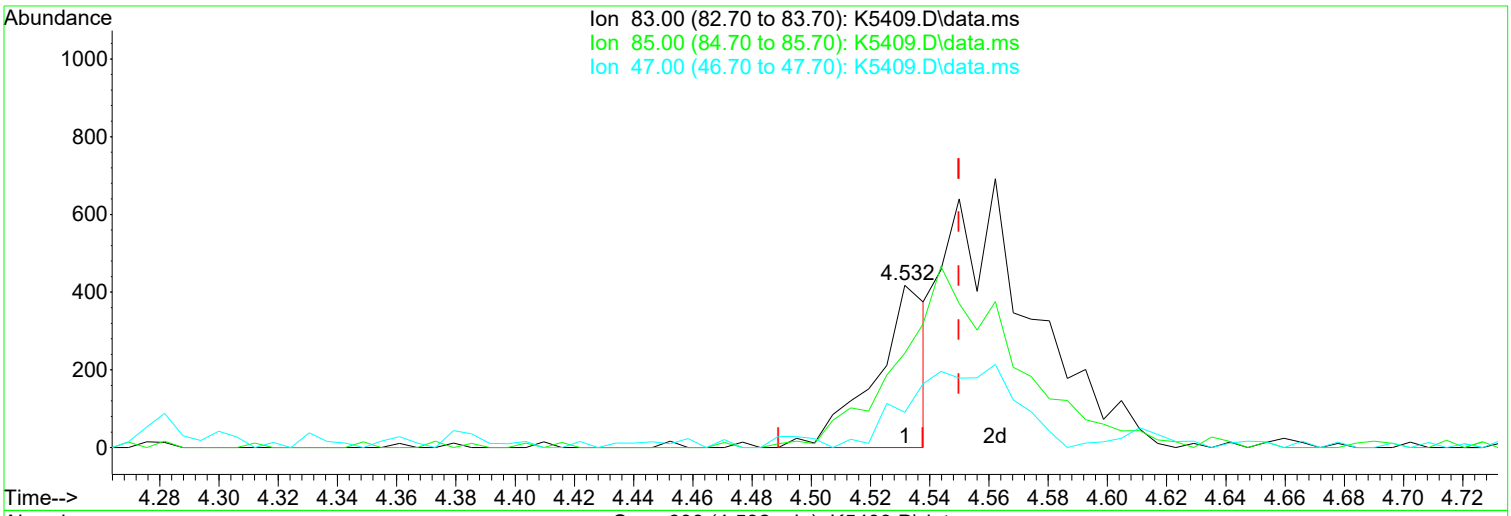
Poor integration.

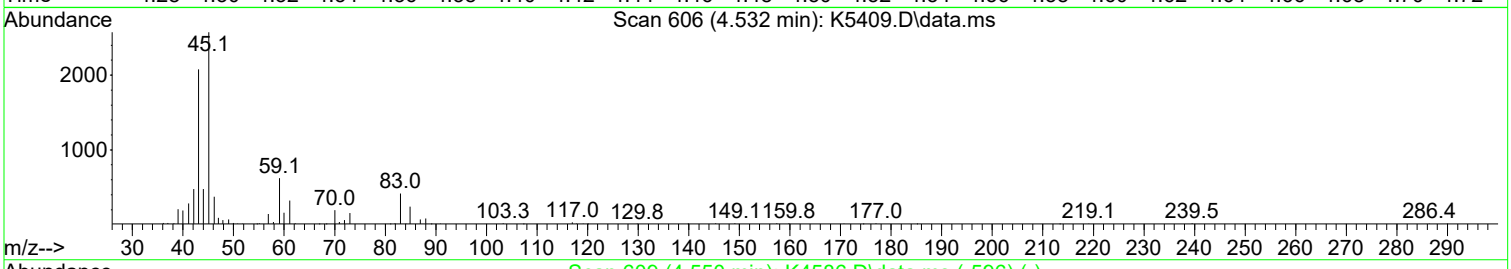
09/04/24

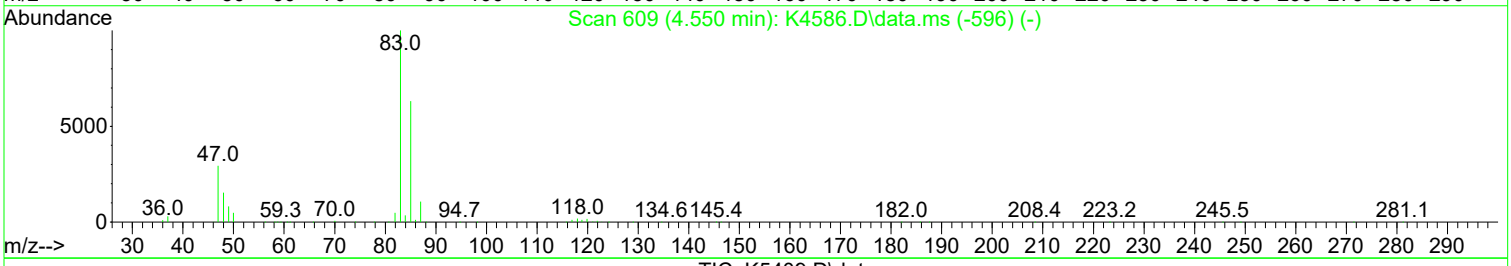
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5409.D
Acq On : 30 Aug 2024 04:42 pm
Operator : F.NAEGLER
Sample : R2408140-010
Misc : CEC 26473 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Aug 31 09:38:58 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5409.D\data.ms

(39) Chloroform (P)

4.532min (-0.018) 0.08 ug/L

response 511

Ion	Exp%	Act%
83.00	100.00	100.00
85.00	63.10	58.13
47.00	29.60	21.77
0.00	0.00	0.00

Manual Integration:

Before

09/04/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5409.D
Acq On : 30 Aug 2024 04:42 pm
Operator : F.NAEGLER
Sample : R2408140-010
Misc : CEC 26473 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Aug 31 09:38:58 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	4.989	168	355060	50.00 ug/L	0.00
42) 1,4-Difluorobenzene	6.172	114	595234	50.00 ug/L	0.00
70) d5-Chlorobenzene	9.573	117	534893	50.00 ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	254084	50.00 ug/L	# 0.00
System Monitoring Compounds					
44) surr4,Dibrflmethane	4.830	113	180955	48.74 ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 97.48%		
47) surr1,1,2-dichloroetha...	5.422	65	255042	50.25 ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.50%		
64) SURR3,Toluene-d8	8.049	98	710876	52.17 ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 104.34%		
69) SURR2,BFB	10.659	95	279739	52.22 ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.44%		
Target Compounds					Qvalue
19) Carbon Disulfide	2.465	76	31254m	4.218 ug/L	
21) Methyl Acetate	2.441	43	857772	172.969 ug/L	96
22) Methylene Chloride	2.514	84	2168	Below Cal	91
33) cis-1,2-Dichloroethene	4.013	96	7969	2.075 ug/L	91
34) 2-Butanone	4.099	43	10656	3.142 ug/L	94
39) Chloroform	4.562	83	1911m	0.302 ug/L	
48) Benzene	5.489	78	14650	1.151 ug/L #	53
51) n-Heptane	6.025	43	1990	0.417 ug/L #	64
53) Trichloroethene	6.507	130	61789	16.369 ug/L	97
58) Methyl Methacrylate	7.062	69	18889	5.866 ug/L	91
63) 4-Methyl-2-pentanone	7.982	43	11370	1.883 ug/L	87
65) Toluene	8.122	91	5532	0.383 ug/L	84
71) Tetrachloroethene	8.726	164	47299	17.932 ug/L	98
72) 2-Hexanone	8.915	43	2635	0.559 ug/L	91
75) N-Butyl Acetate	9.073	43	6453	0.714 ug/L	87
88) Cyclohexanone	10.610	55	234101	200.039 ug/L	99

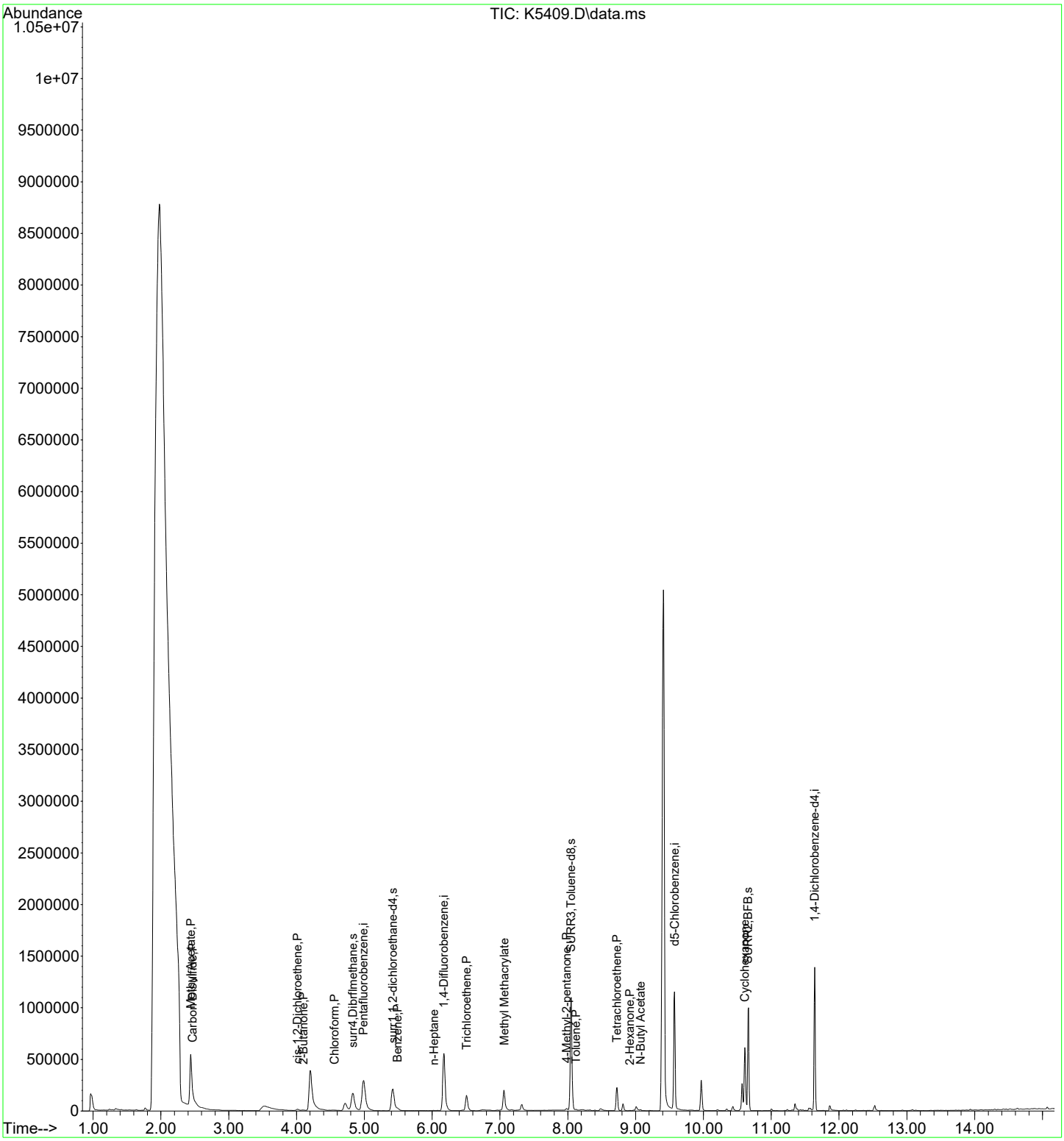
NT

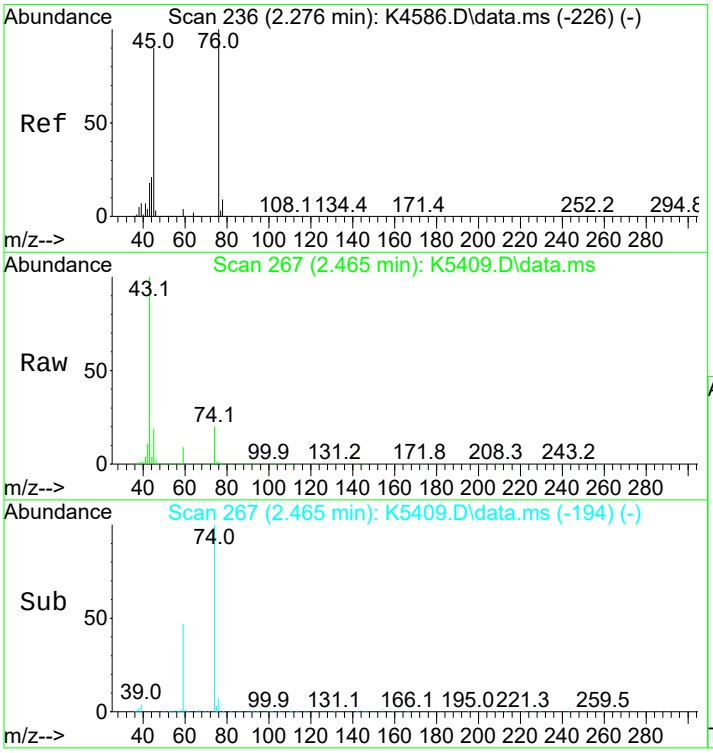
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5409.D
Acq On : 30 Aug 2024 04:42 pm
Operator : F.NAEGLER
Sample : R2408140-010
Misc : CEC 26473 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Aug 31 09:38:58 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

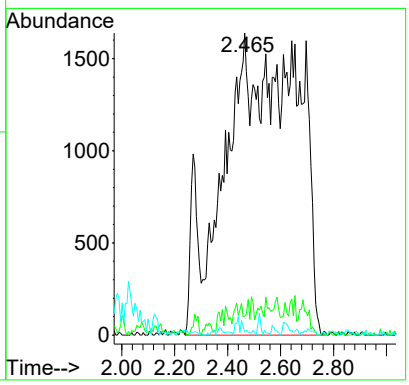


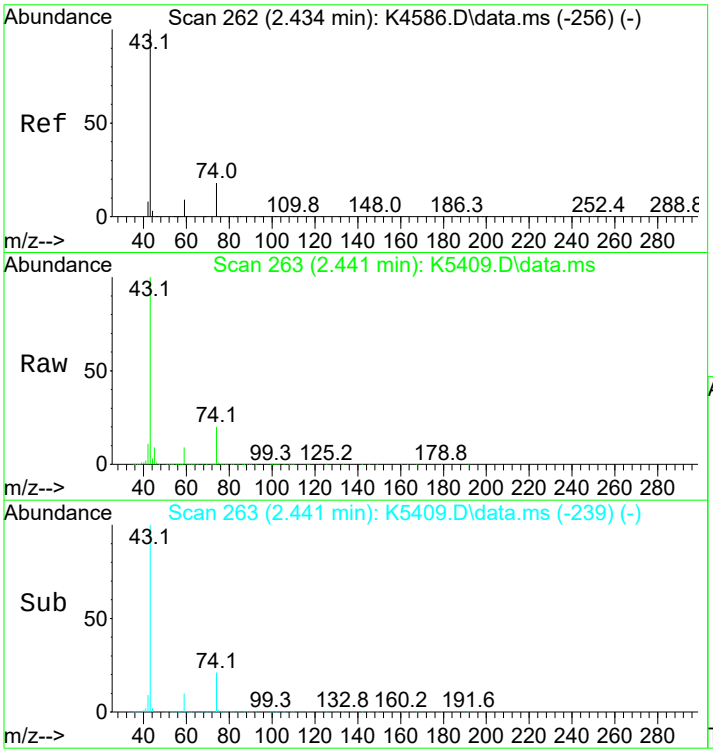


#19
Carbon Disulfide
Concen: 4.22 ug/L m
RT: 2.465 min Scan# 267
Delta R.T. 0.189 min
Lab File: K5409.D
Acq: 30 Aug 2024 04:42 pm

Tgt Ion: 76 Resp: 31254

Ion	Ratio	Lower	Upper
76	100		
78	6.2	0.0	29.2
77	1.0	0.0	22.7

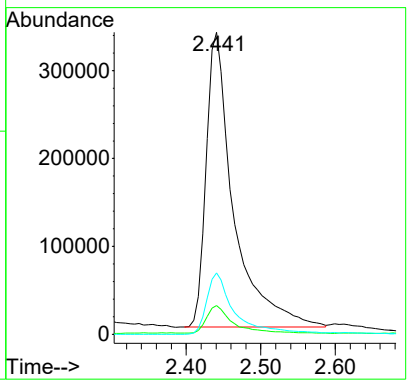


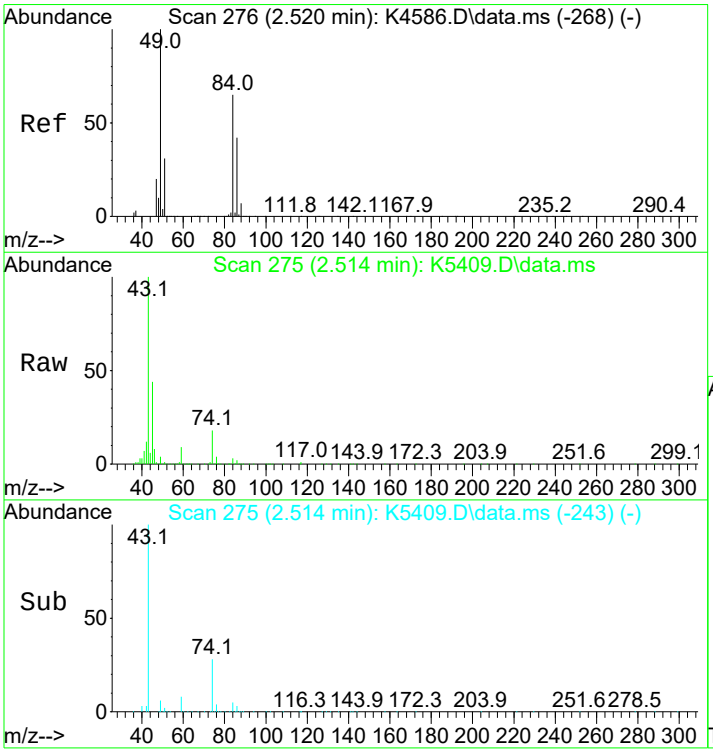


#21
Methyl Acetate
Concen: 172.97 ug/L
RT: 2.441 min Scan# 263
Delta R.T. 0.006 min
Lab File: K5409.D
Acq: 30 Aug 2024 04:42 pm

Tgt Ion: 43 Resp: 857772

Ion	Ratio	Lower	Upper
43	100		
59	9.5	0.0	29.1
74	20.3	0.0	38.1

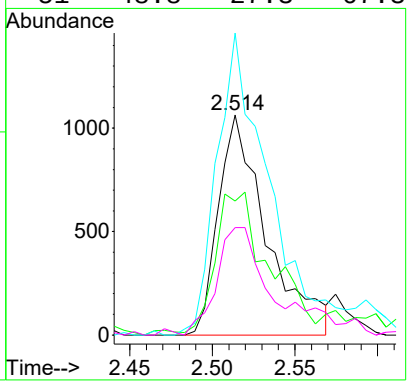


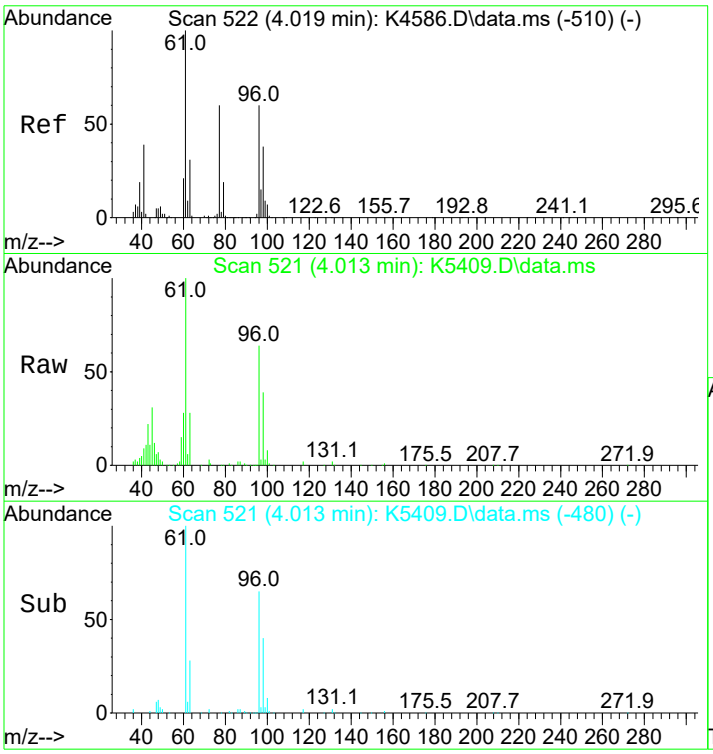


#22
Methylene Chloride
Concen: Below Cal
RT: 2.514 min Scan# 275
Delta R.T. -0.005 min
Lab File: K5409.D
Acq: 30 Aug 2024 04:42 pm

Tgt Ion: 84 Resp: 2168

Ion	Ratio	Lower	Upper
84	100		
86	60.9	44.7	84.7
49	137.2	134.9	174.9
51	48.8	27.3	67.3

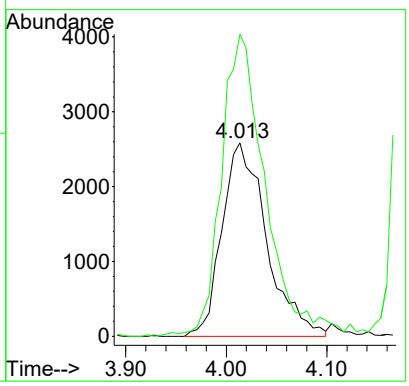


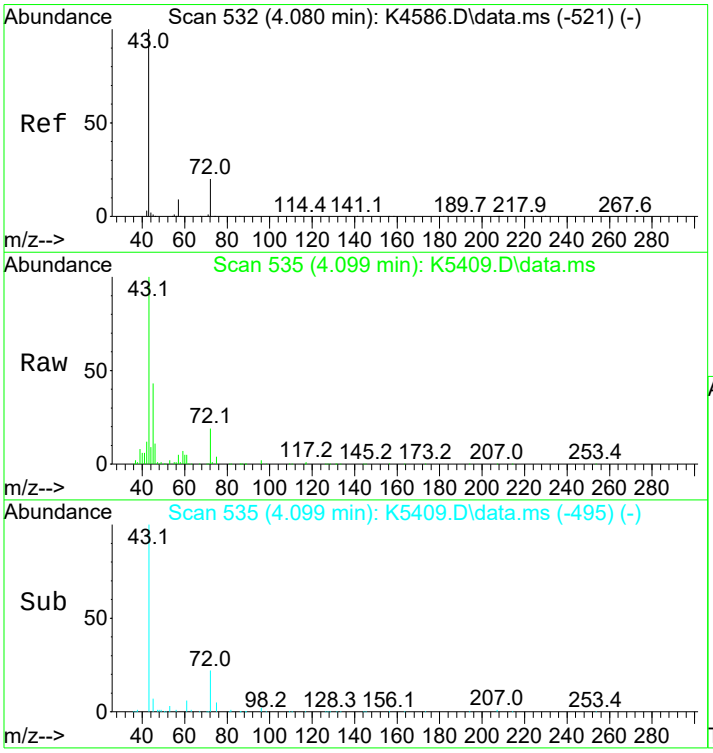


#33
cis-1,2-Dichloroethene
Concen: 2.07 ug/L
RT: 4.013 min Scan# 521
Delta R.T. -0.006 min
Lab File: K5409.D
Acq: 30 Aug 2024 04:42 pm

Tgt Ion: 96 Resp: 7969

Ion	Ratio	Lower	Upper
96	100		
61	156.1	147.9	187.9

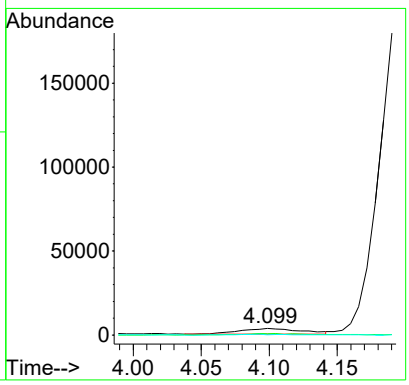


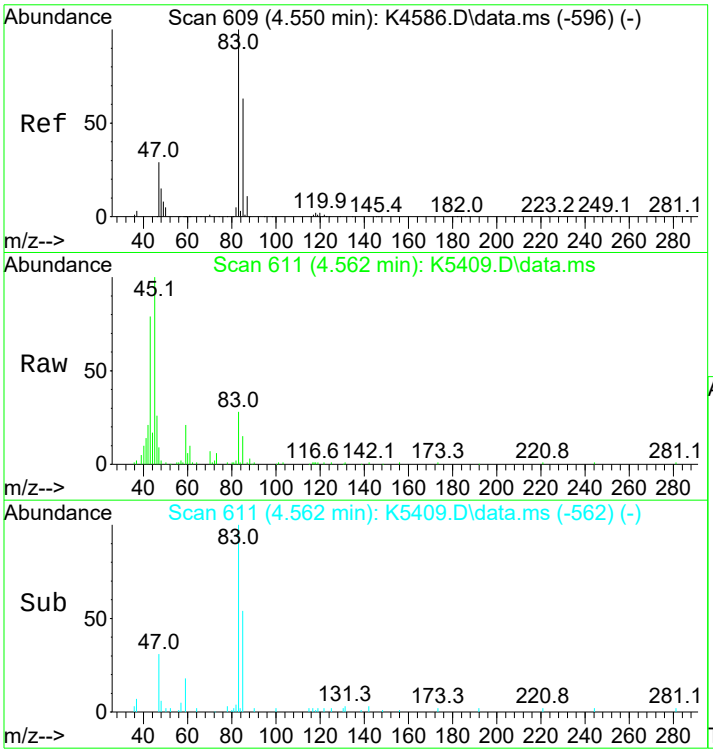


#34
2-Butanone
Concen: 3.14 ug/L
RT: 4.099 min Scan# 535
Delta R.T. 0.018 min
Lab File: K5409.D
Acq: 30 Aug 2024 04:42 pm

Tgt Ion: 43 Resp: 10656

Ion	Ratio	Lower	Upper
43	100		
72	19.2	1.2	41.2
57	5.4	0.0	29.2

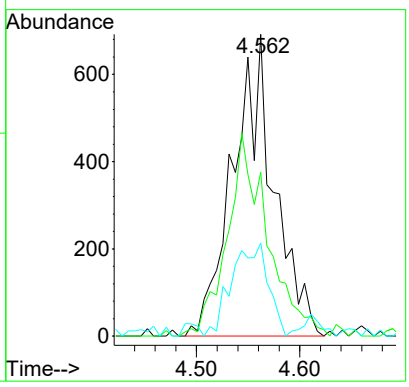


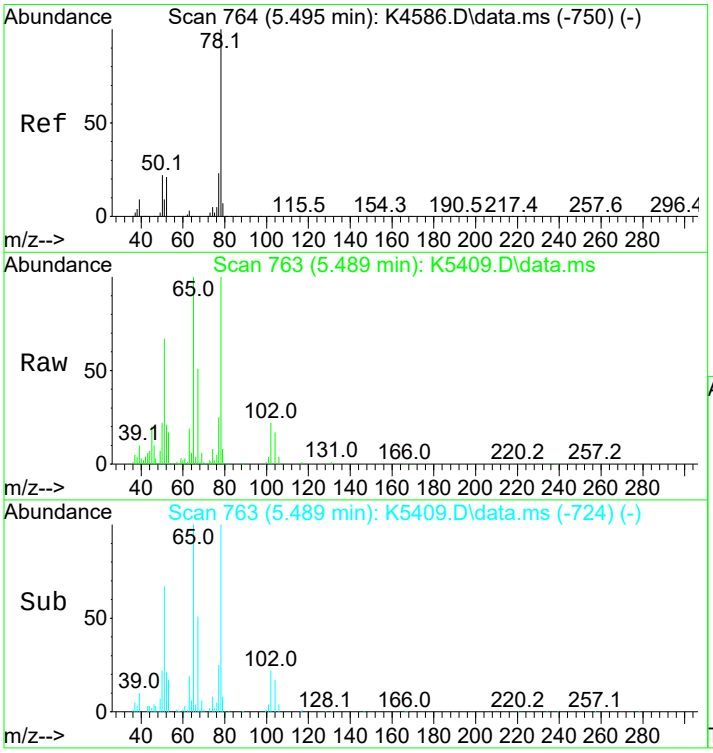


#39
Chloroform
Concen: 0.30 ug/L m
RT: 4.562 min Scan# 611
Delta R.T. 0.012 min
Lab File: K5409.D
Acq: 30 Aug 2024 04:42 pm

Tgt Ion: 83 Resp: 1911

Ion	Ratio	Lower	Upper
83	100		
85	54.3	43.1	83.1
47	30.9	9.6	49.6

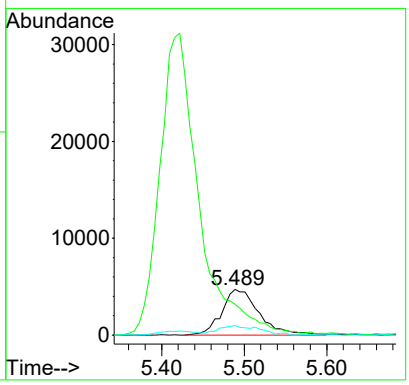


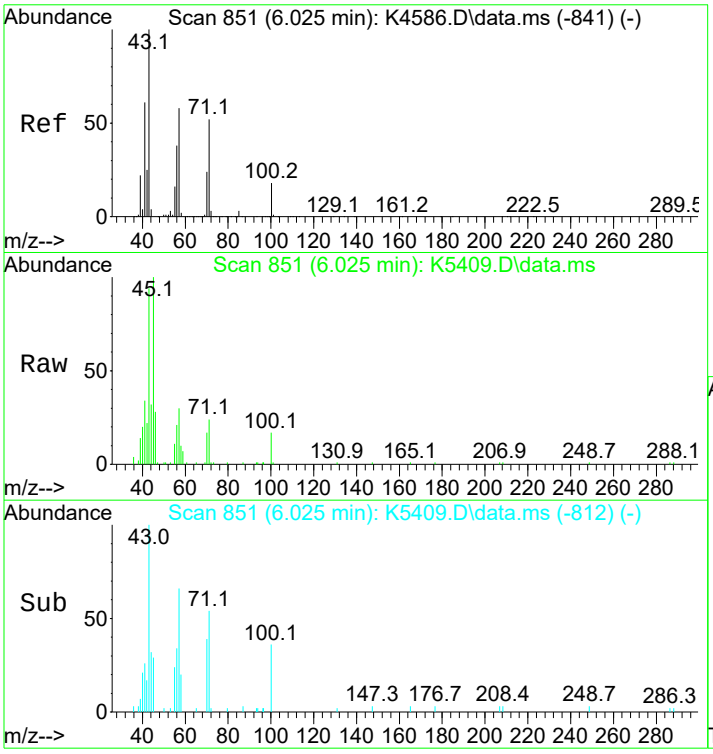


#48
Benzene
Concen: 1.15 ug/L
RT: 5.489 min Scan# 763
Delta R.T. -0.006 min
Lab File: K5409.D
Acq: 30 Aug 2024 04:42 pm

Tgt Ion: 78 Resp: 14650

Ion	Ratio	Lower	Upper
78	100		
51	67.0	3.1	43.1#
52	21.0	1.2	41.2

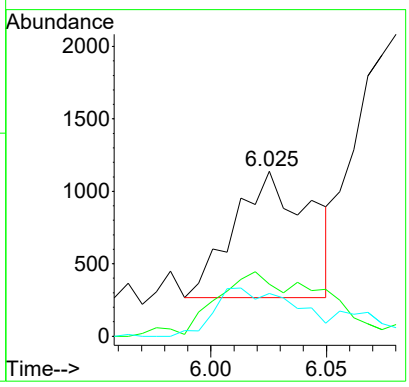


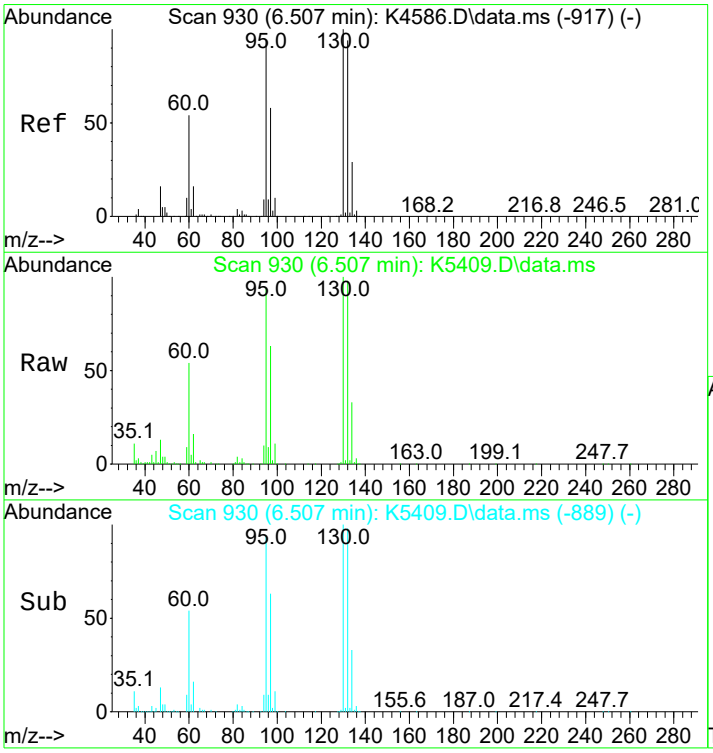


#51
n-Heptane
Concen: 0.42 ug/L
RT: 6.025 min Scan# 851
Delta R.T. 0.000 min
Lab File: K5409.D
Acq: 30 Aug 2024 04:42 pm

Tgt Ion: 43 Resp: 1990

Ion	Ratio	Lower	Upper
43	100		
57	31.6	37.2	77.2#
71	25.8	32.3	72.3#

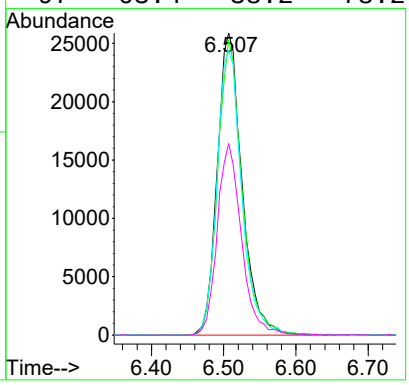


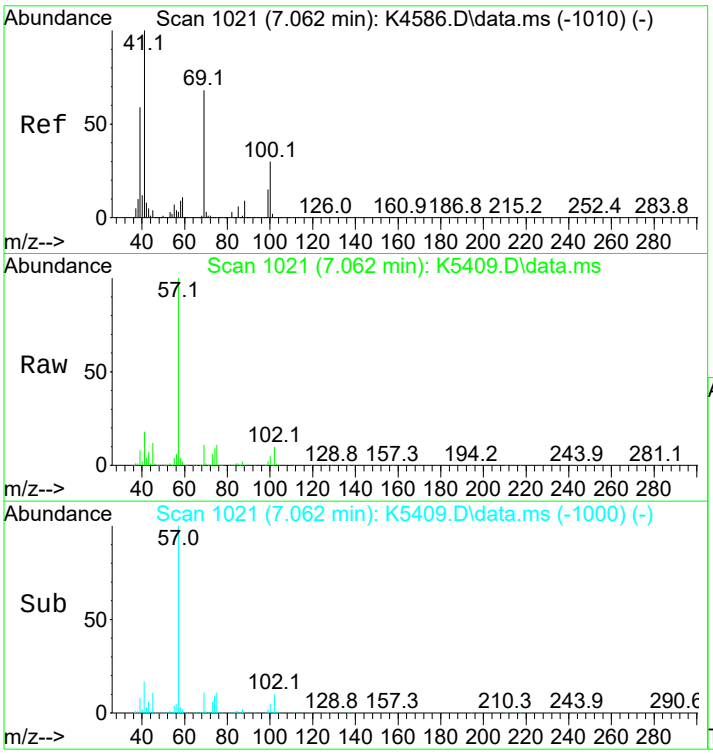


#53
Trichloroethene
Concen: 16.37 ug/L
RT: 6.507 min Scan# 930
Delta R.T. -0.000 min
Lab File: K5409.D
Acq: 30 Aug 2024 04:42 pm

Tgt Ion:130 Resp: 61789

Ion	Ratio	Lower	Upper
130	100		
132	97.7	74.0	114.0
95	94.3	74.1	114.1
97	63.4	38.2	78.2

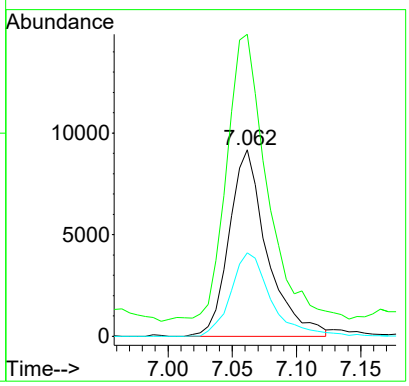


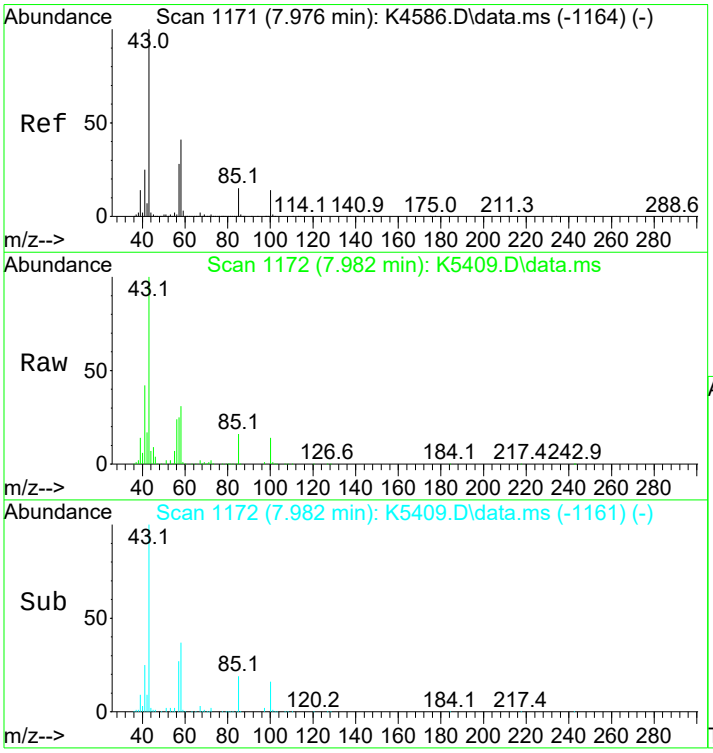


#58
Methyl Methacrylate
Concen: 5.87 ug/L
RT: 7.062 min Scan# 1021
Delta R.T. 0.000 min
Lab File: K5409.D
Acq: 30 Aug 2024 04:42 pm

Tgt Ion: 69 Resp: 18889

Ion	Ratio	Lower	Upper
69	100		
41	162.0	128.2	168.2
100	44.7	24.5	64.5

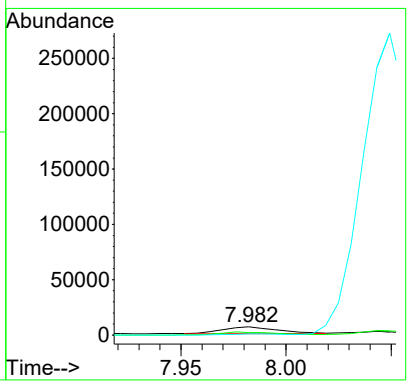


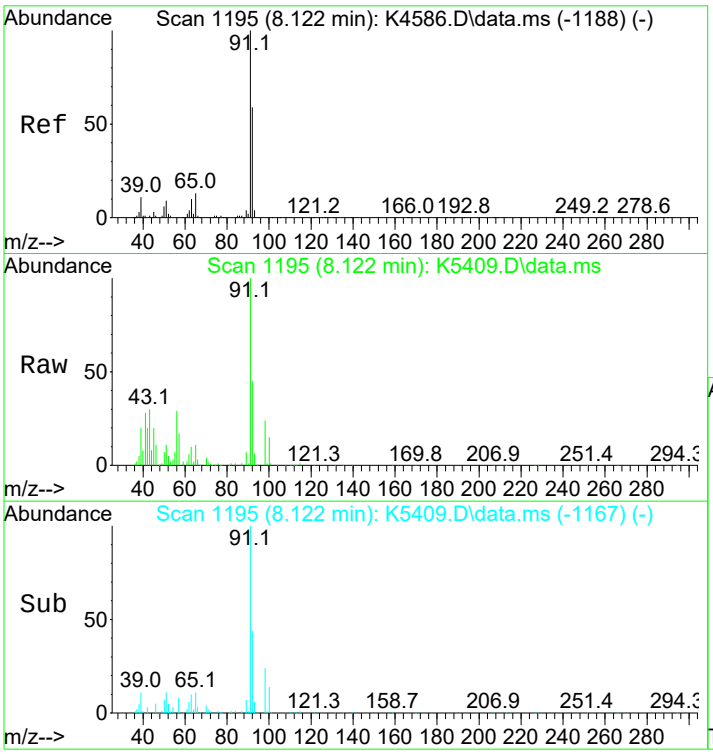


#63
4-Methyl-2-pentanone
Concen: 1.88 ug/L
RT: 7.982 min Scan# 1172
Delta R.T. 0.006 min
Lab File: K5409.D
Acq: 30 Aug 2024 04:42 pm

Tgt Ion: 43 Resp: 11370

Ion	Ratio	Lower	Upper
43	100		
58	30.8	21.3	61.3
100	13.6	0.0	33.7

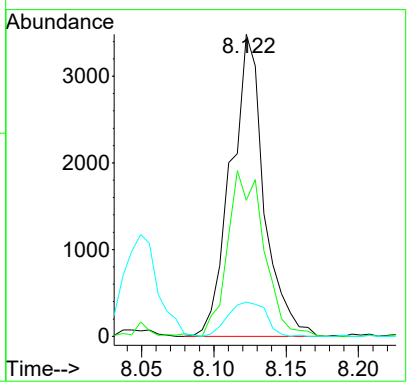


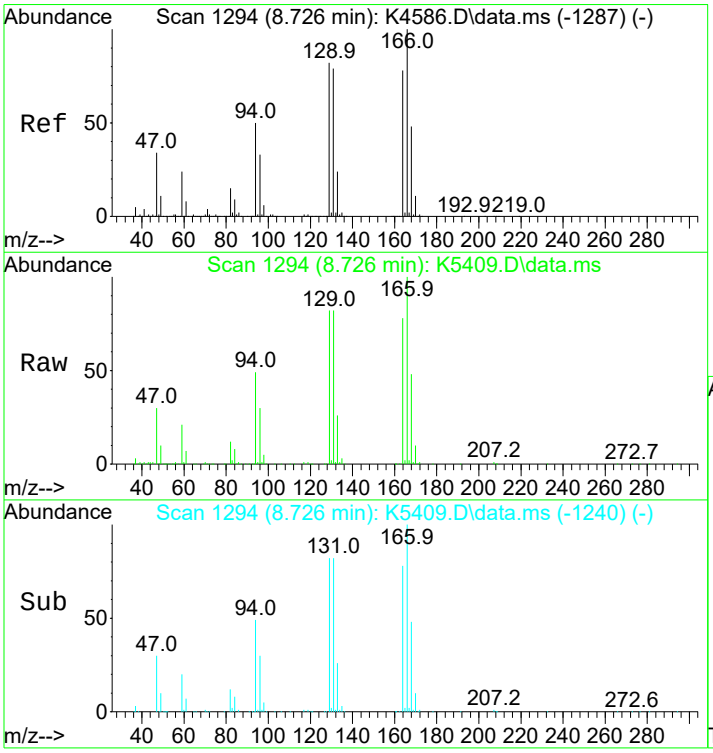


#65
Toluene
Concen: 0.38 ug/L
RT: 8.122 min Scan# 1195
Delta R.T. 0.000 min
Lab File: K5409.D
Acq: 30 Aug 2024 04:42 pm

Tgt Ion: 91 Resp: 5532

Ion	Ratio	Lower	Upper
91	100		
92	45.0	39.0	79.0
65	11.3	0.0	32.8

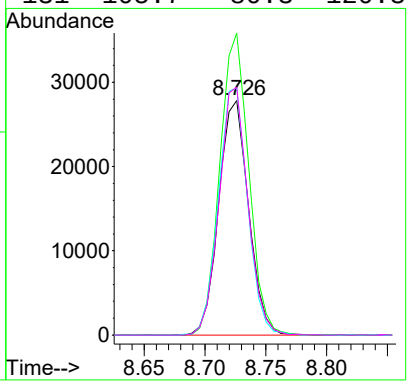


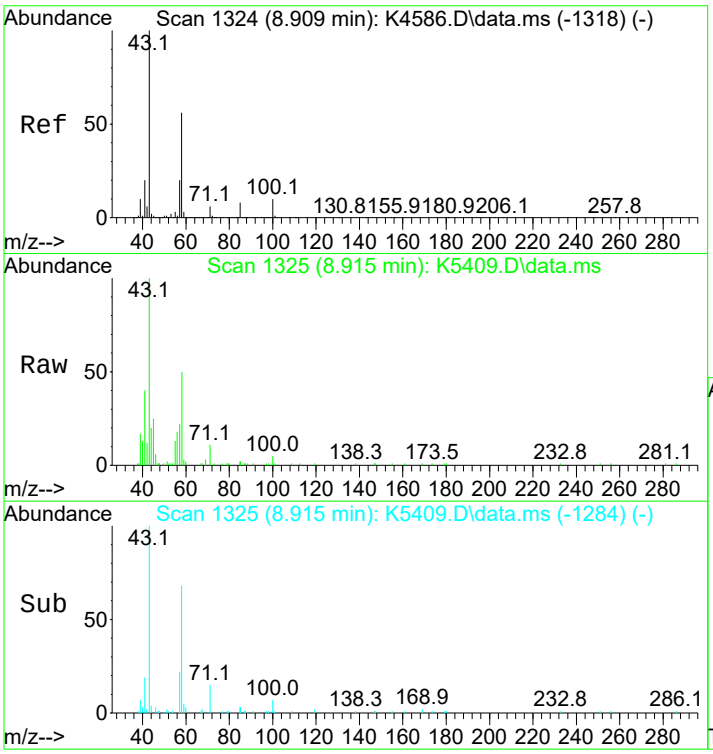


#71
Tetrachloroethene
Concen: 17.93 ug/L
RT: 8.726 min Scan# 1294
Delta R.T. 0.000 min
Lab File: K5409.D
Acq: 30 Aug 2024 04:42 pm

Tgt Ion:164 Resp: 47299

Ion	Ratio	Lower	Upper
164	100		
166	128.7	107.5	147.5
129	105.3	84.9	124.9
131	105.7	80.3	120.3

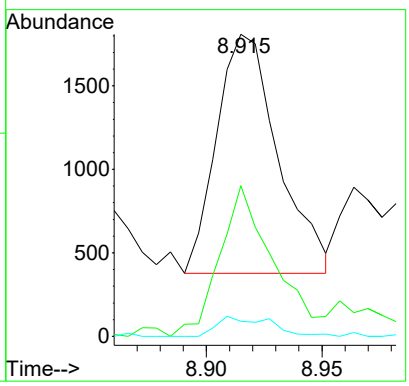


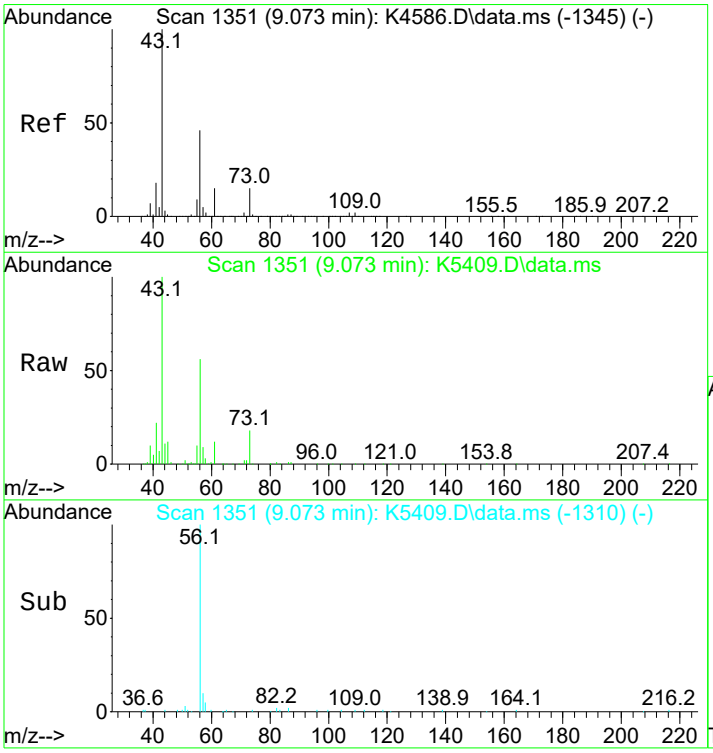


#72
2-Hexanone
Concen: 0.56 ug/L
RT: 8.915 min Scan# 1325
Delta R.T. 0.006 min
Lab File: K5409.D
Acq: 30 Aug 2024 04:42 pm

Tgt Ion: 43 Resp: 2635

Ion	Ratio	Lower	Upper
43	100		
58	49.9	35.9	75.9
100	5.0	0.0	30.1

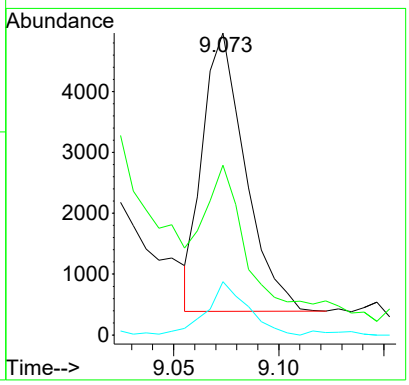


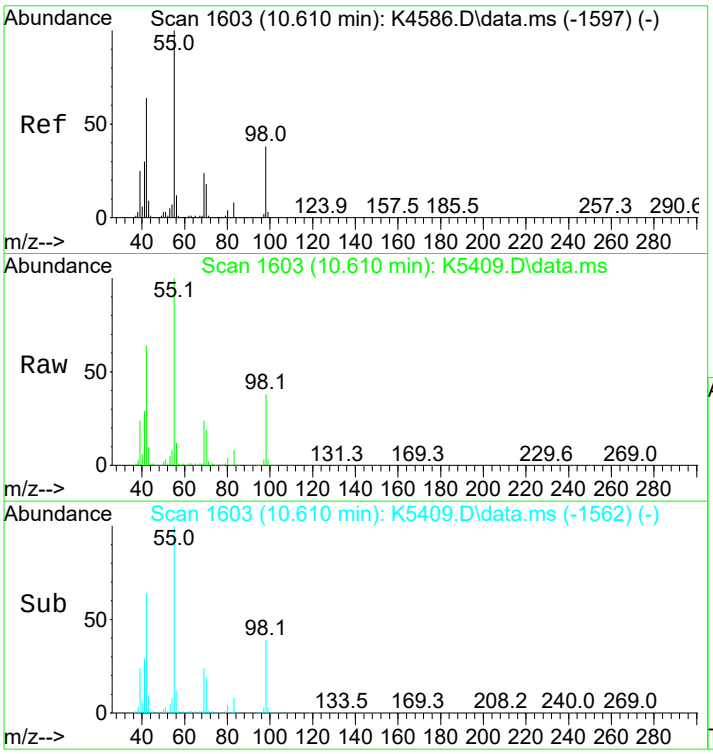


#75
N-Butyl Acetate
Concen: 0.71 ug/L
RT: 9.073 min Scan# 1351
Delta R.T. 0.000 min
Lab File: K5409.D
Acq: 30 Aug 2024 04:42 pm

Tgt Ion: 43 Resp: 6453

Ion	Ratio	Lower	Upper
43	100		
56	56.2	25.8	65.8
73	17.6	0.0	35.4

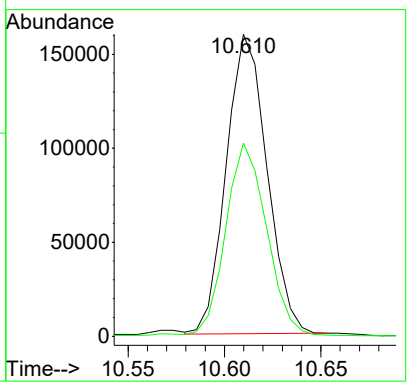




#88
Cyclohexanone
Concen: 200.04 ug/L
RT: 10.610 min Scan# 1603
Delta R.T. -0.000 min
Lab File: K5409.D
Acq: 30 Aug 2024 04:42 pm

Tgt Ion: 55 Resp: 234101

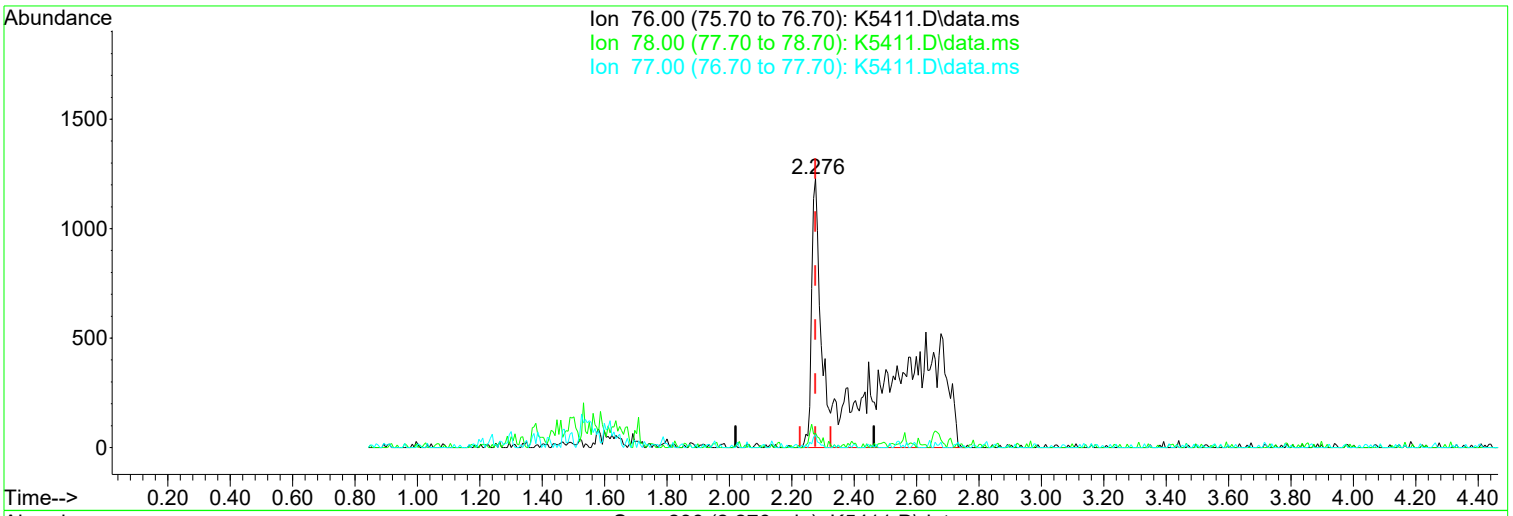
Ion	Ratio	Lower	Upper
55	100		
42	64.0	44.5	84.5

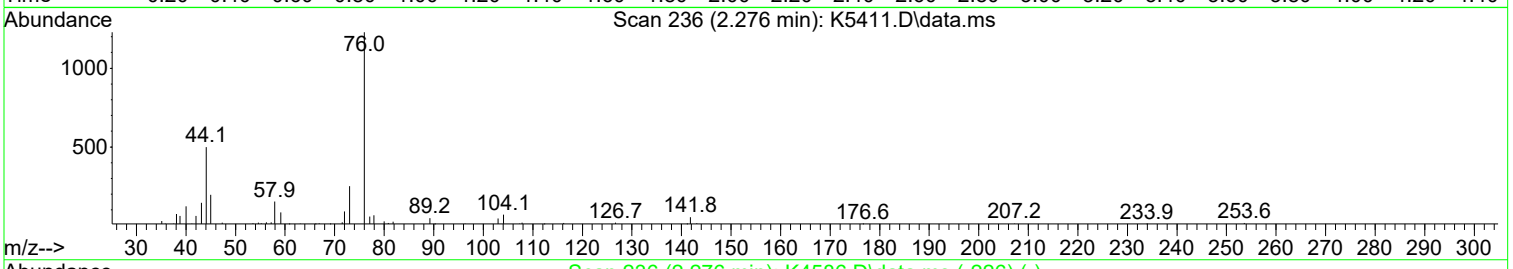


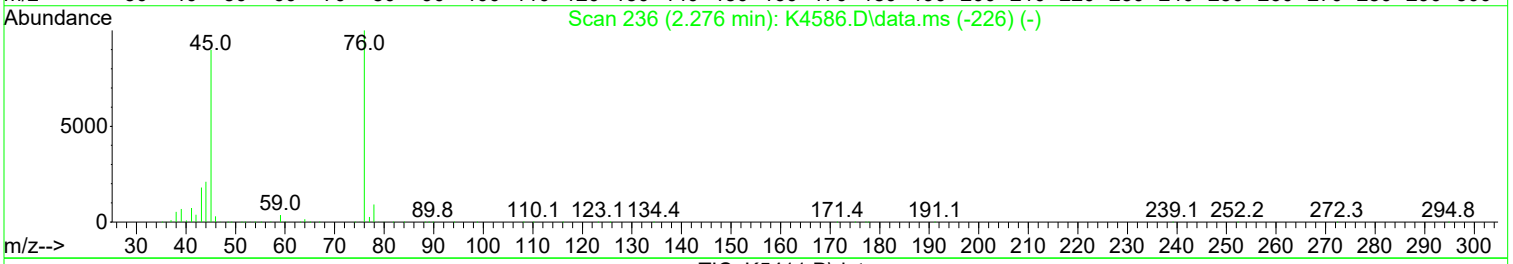
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5411.D
Acq On : 30 Aug 2024 05:30 pm
Operator : F.NAEGLER
Sample : R2408140-011|2.5
Misc : CEC 26473 T4
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 31 09:39:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5411.D\data.ms

(19) Carbon Disulfide (P)

2.276min (-0.000) 1.25 ug/L m

response 9514

Ion	Exp%	Act%
76.00	100.00	100.00
78.00	9.20	5.37
77.00	2.70	4.72
0.00	0.00	0.00

Manual Integration:

After

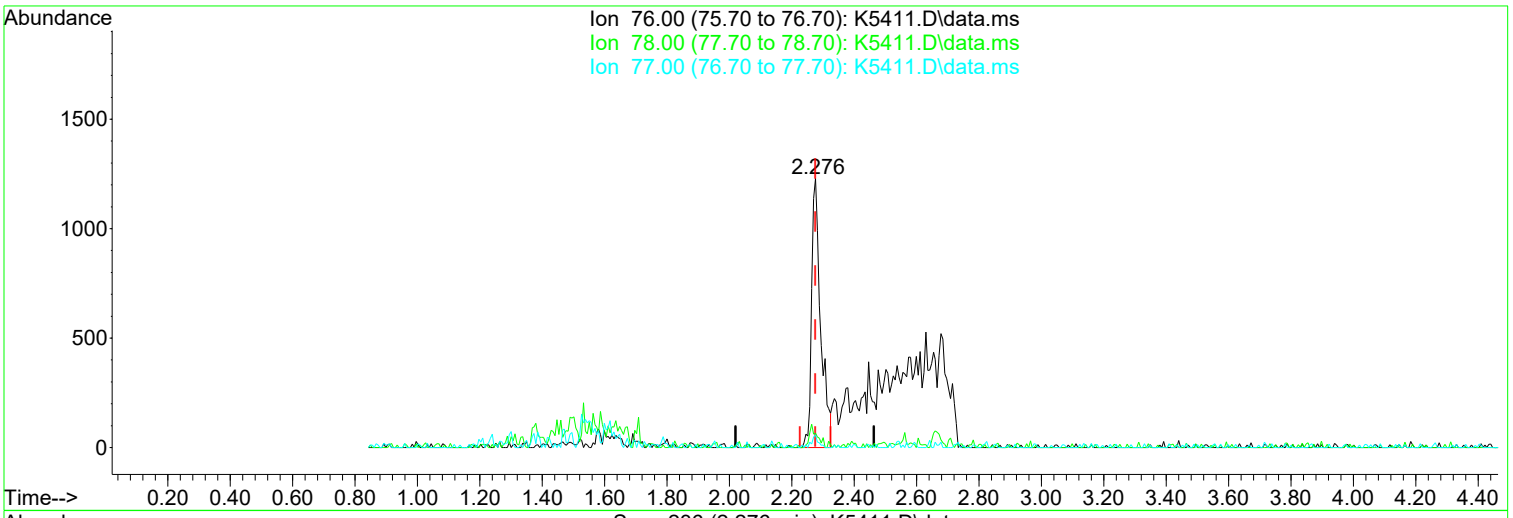
Poor integration.

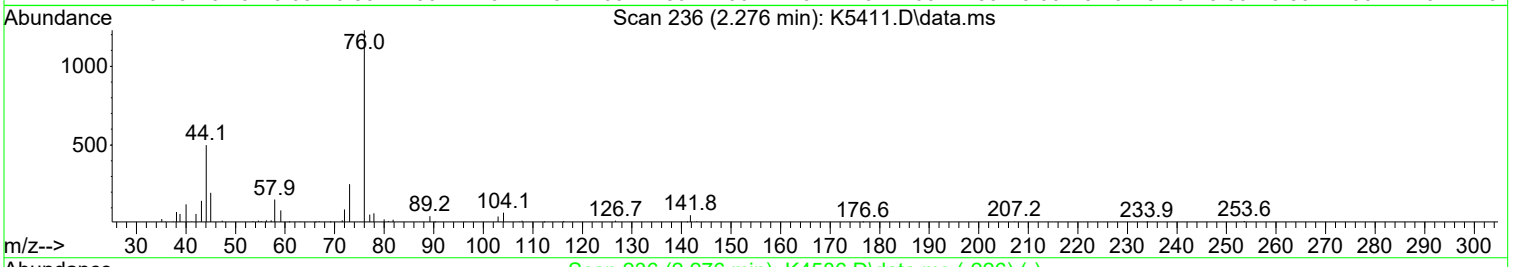
09/04/24

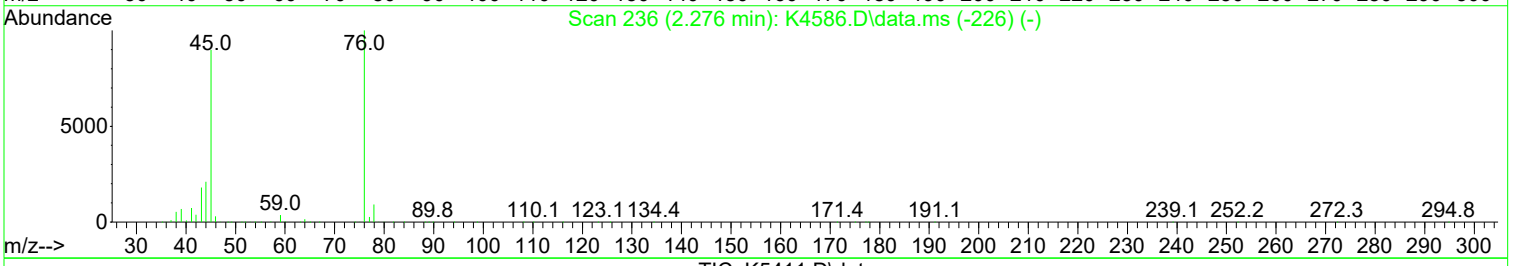
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5411.D
Acq On : 30 Aug 2024 05:30 pm
Operator : F.NAEGLER
Sample : R2408140-011|2.5
Misc : CEC 26473 T4
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 31 09:39:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5411.D\data.ms

(19) Carbon Disulfide (P)

2.276min (-0.000) 0.33 ug/L

response 2481

Ion	Exp%	Act%
76.00	100.00	100.00
78.00	9.20	5.37
77.00	2.70	4.72
0.00	0.00	0.00

Manual Integration:

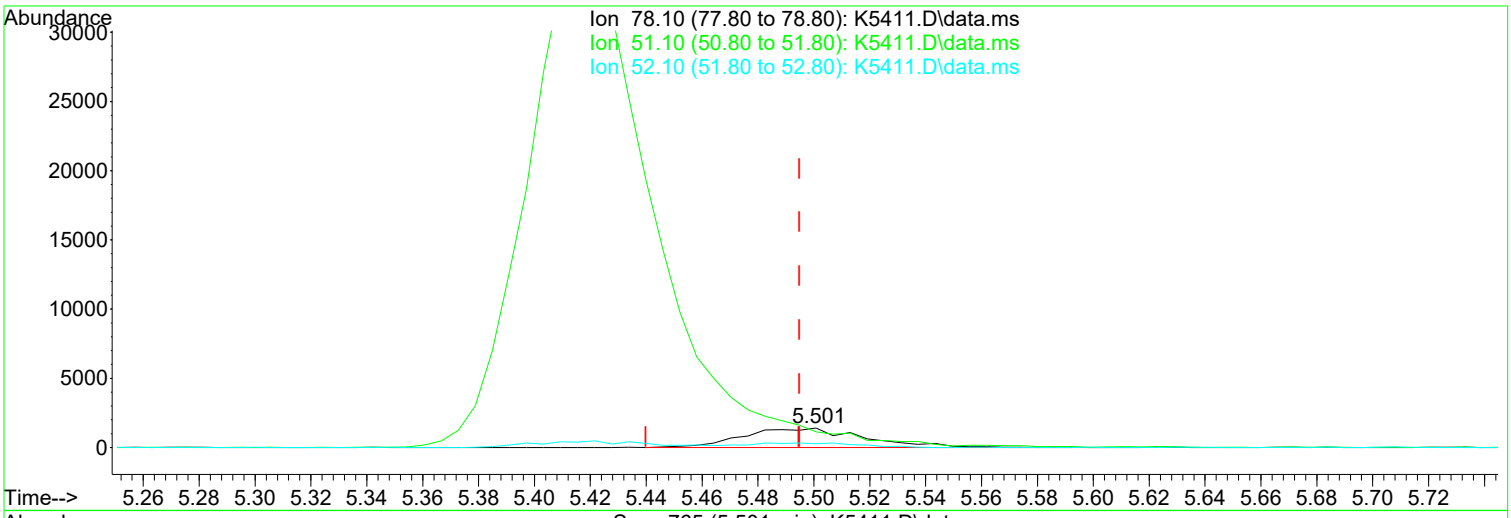
Before

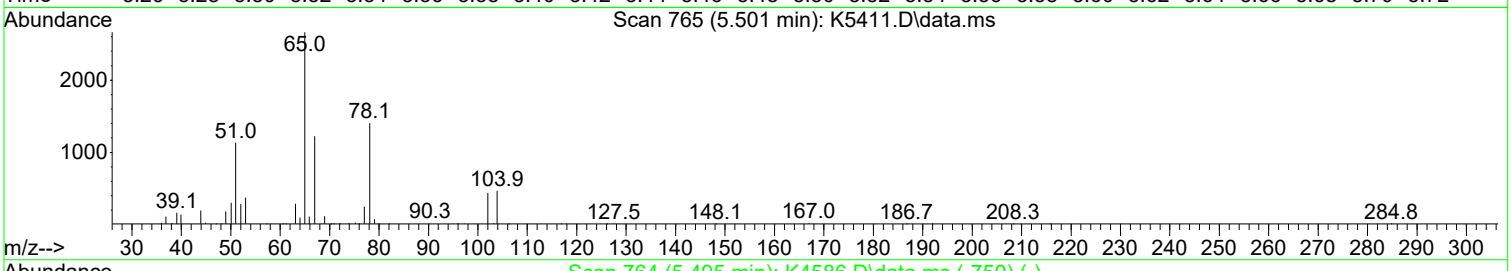
09/04/24

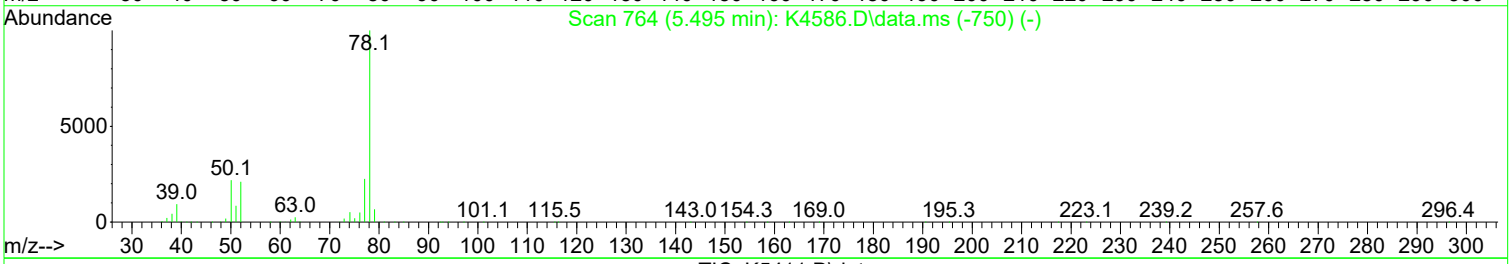
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5411.D
Acq On : 30 Aug 2024 05:30 pm
Operator : F.NAEGLER
Sample : R2408140-011|2.5
Misc : CEC 26473 T4
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 31 09:39:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5411.D\data.ms

(48) Benzene (P)

5.501min (+ 0.006) 0.33 ug/L m

response 4258

Ion	Exp%	Act%
78.10	100.00	100.00
51.10	23.10	80.98#
52.10	21.20	20.37
0.00	0.00	0.00

Manual Integration:

After

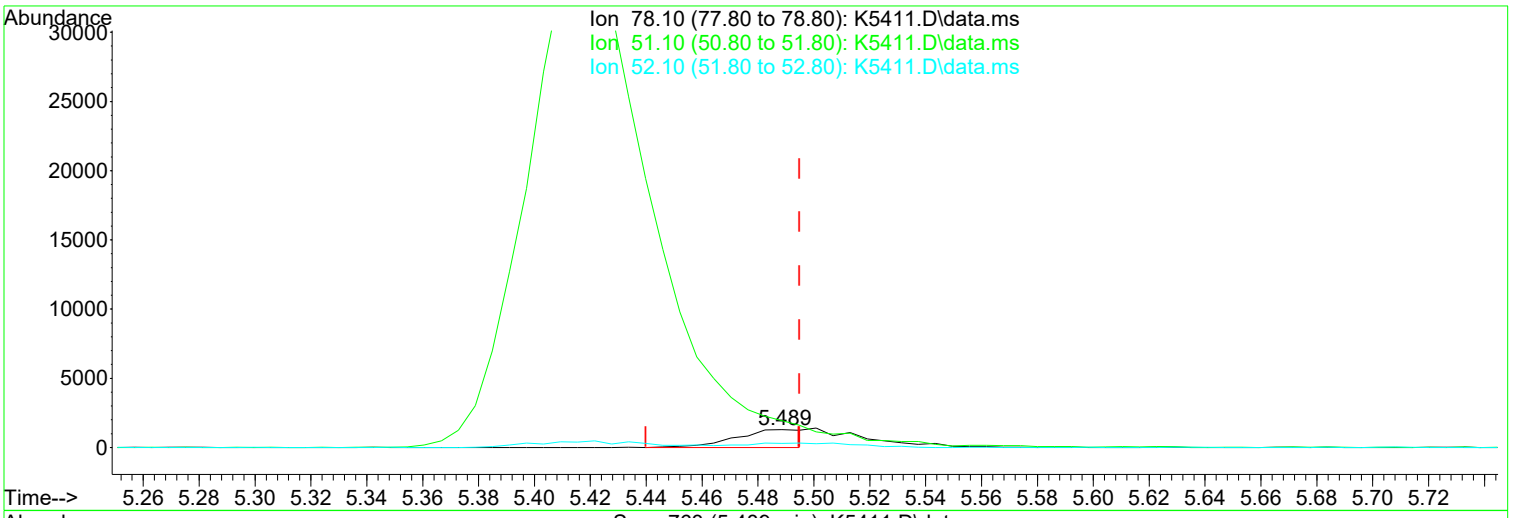
Poor integration.

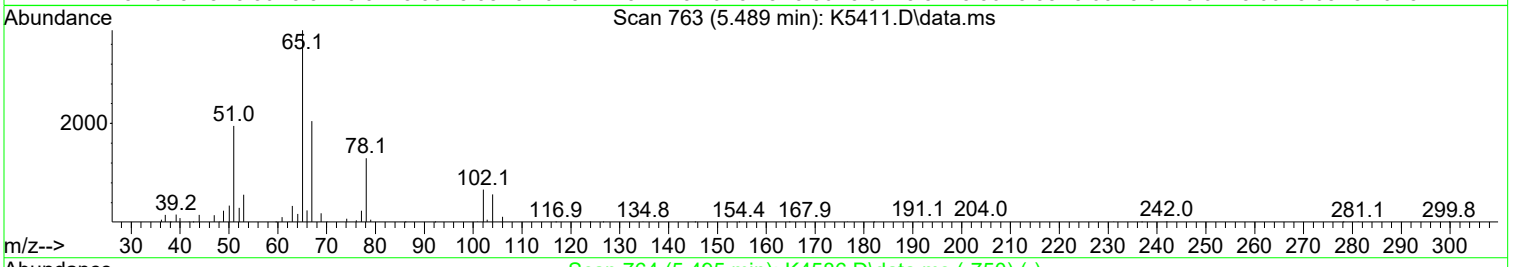
09/04/24

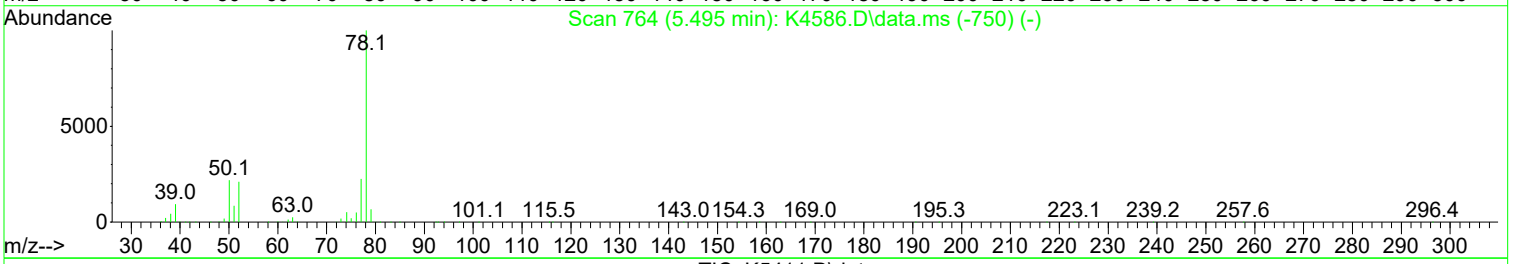
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5411.D
Acq On : 30 Aug 2024 05:30 pm
Operator : F.NAEGLER
Sample : R2408140-011|2.5
Misc : CEC 26473 T4
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 31 09:39:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5411.D\data.ms

(48) Benzene (P)

5.489min (-0.006) 0.17 ug/L

response 2185

Ion	Exp%	Act%
78.10	100.00	100.00
51.10	23.10	150.66#
52.10	21.20	22.78
0.00	0.00	0.00

Manual Integration:

Before

09/04/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5411.D
Acq On : 30 Aug 2024 05:30 pm
Operator : F.NAEGLER
Sample : R2408140-011|2.5
Misc : CEC 26473 T4
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 31 09:39:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

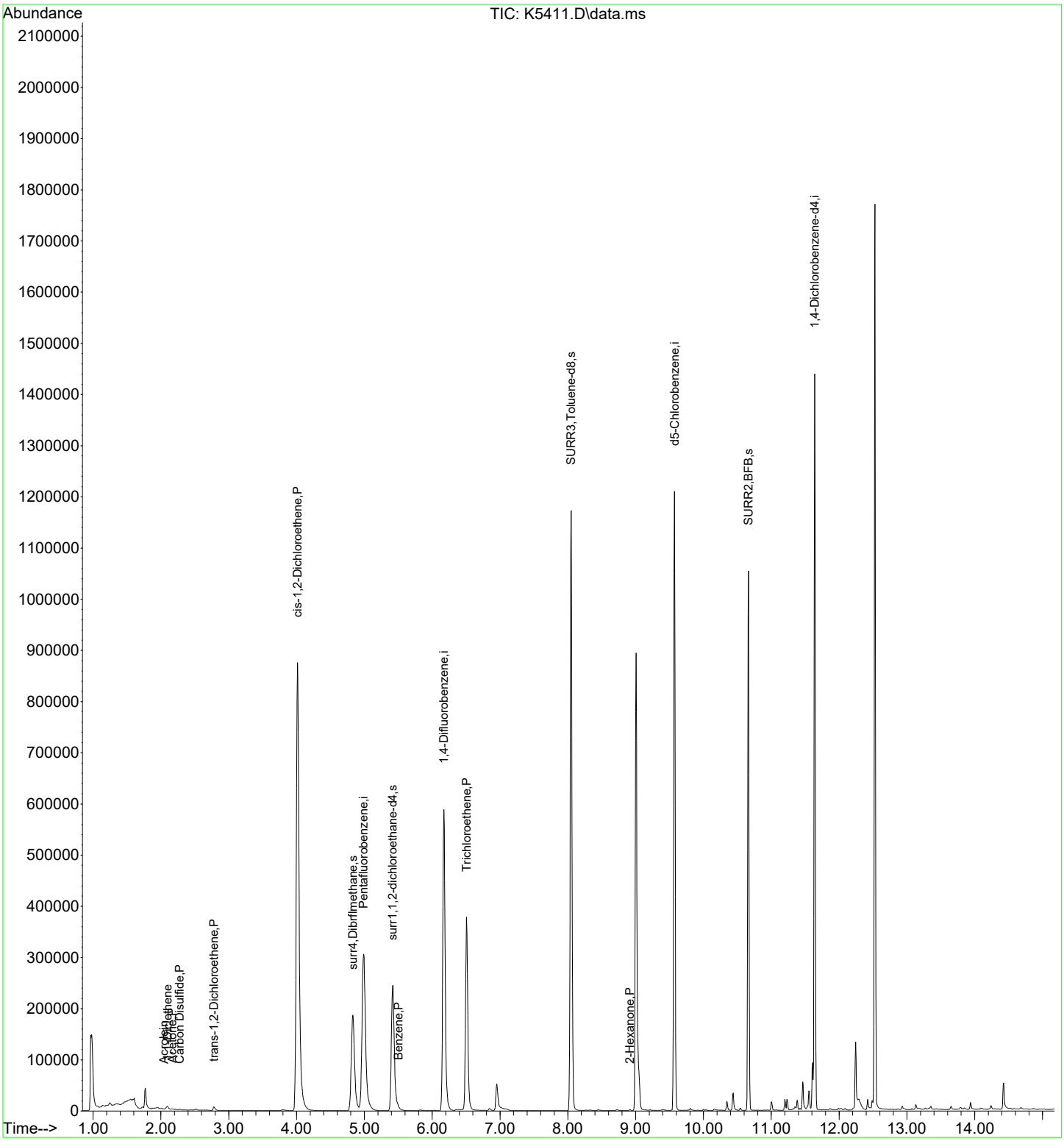
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.989	168	364498	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.171	114	605193	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.573	117	539968	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	254524	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.830	113	200370	53.08	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 106.16%			
47) surr1,1,2-dichloroetha...	5.415	65	278850	54.04	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 108.08%			
64) SURR3,Toluene-d8	8.049	98	751087	54.22	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 108.44%			
69) SURR2,BFB	10.664	95	284041	52.15	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.30%			
Target Compounds						Qvalue
6) Bromomethane	1.471	94	322	Below Cal	#	40
13) Acrolein	2.044	56	267	0.459	ug/L	82
14) 1,1-Diclethene	2.099	96	1355	0.439	ug/L #	69
16) Acetone	2.166	43	2014	0.690	ug/L #	50
19) Carbon Disulfide	2.276	76	9514m	1.251	ug/L	
22) Methylene Chloride	2.514	84	1038	Below Cal		97
26) trans-1,2-Dichloroethene	2.782	96	3279	0.967	ug/L #	84
33) cis-1,2-Dichloroethene	4.013	96	541494	137.336	ug/L	89
48) Benzene	5.501	78	4258m	0.329	ug/L	
53) Trichloroethene	6.507	130	154001	40.126	ug/L	97
72) 2-Hexanone	8.915	43	1125	0.236	ug/L	95

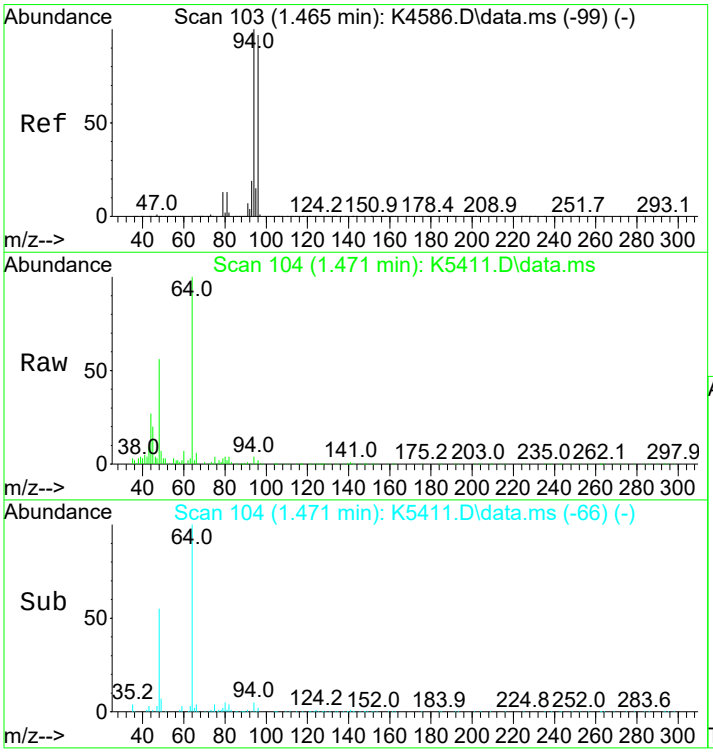
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5411.D
Acq On : 30 Aug 2024 05:30 pm
Operator : F.NAEGLER
Sample : R2408140-011|2.5
Misc : CEC 26473 T4
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 31 09:39:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

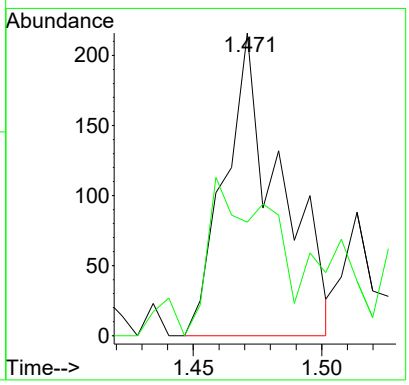


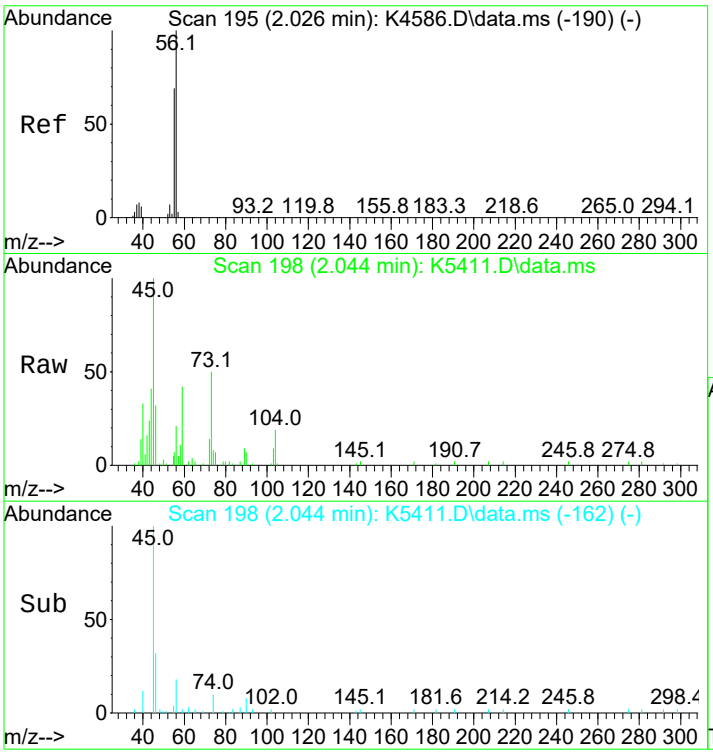


#6
Bromomethane
Concen: Below Cal
RT: 1.471 min Scan# 104
Delta R.T. 0.006 min
Lab File: K5411.D
Acq: 30 Aug 2024 05:30 pm

Tgt Ion: 94 Resp: 322

Ion	Ratio	Lower	Upper
94	100		
96	37.5	76.6	116.6#

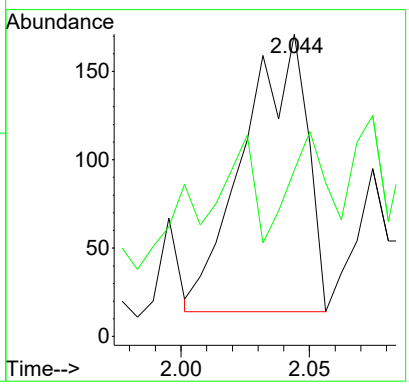


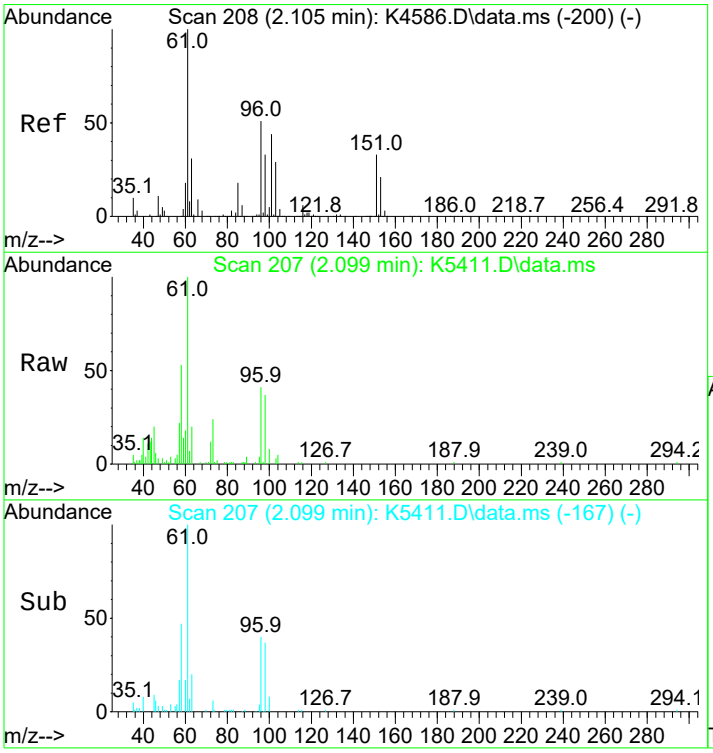


#13
Acrolein
Concen: 0.46 ug/L
RT: 2.044 min Scan# 198
Delta R.T. 0.018 min
Lab File: K5411.D
Acq: 30 Aug 2024 05:30 pm

Tgt Ion: 56 Resp: 267

Ion	Ratio	Lower	Upper
56	100		
55	55.0	49.5	89.5

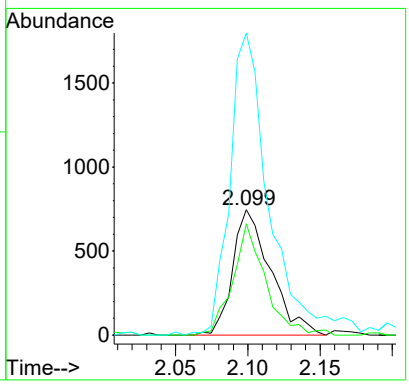


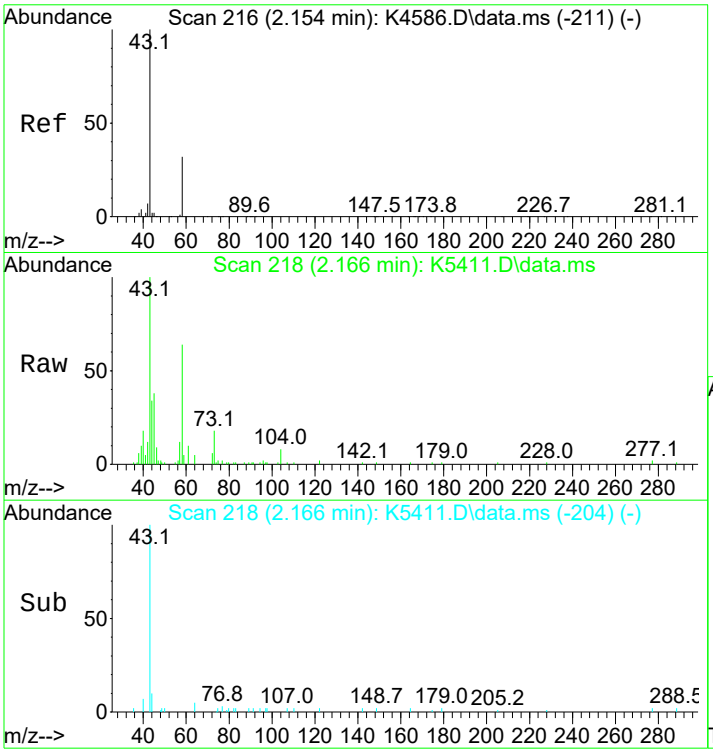


#14
1,1-Diclethene
Concen: 0.44 ug/L
RT: 2.099 min Scan# 207
Delta R.T. -0.006 min
Lab File: K5411.D
Acq: 30 Aug 2024 05:30 pm

Tgt Ion: 96 Resp: 1355

Ion	Ratio	Lower	Upper
96	100		
98	88.9	44.9	84.9#
61	241.0	175.2	215.2#

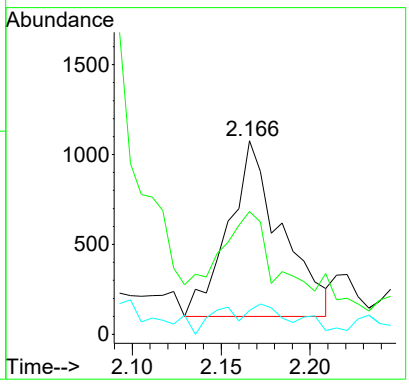


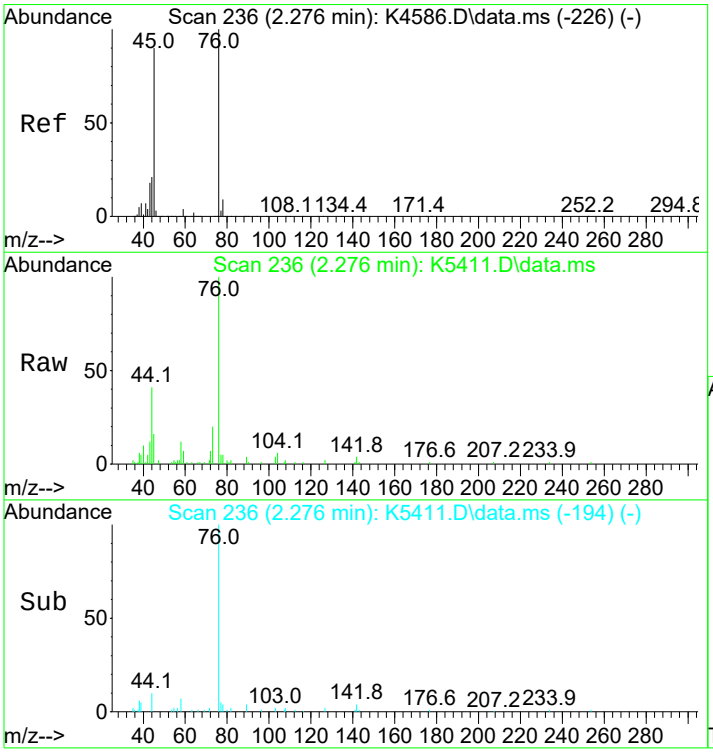


#16
Acetone
Concen: 0.69 ug/L
RT: 2.166 min Scan# 218
Delta R.T. 0.012 min
Lab File: K5411.D
Acq: 30 Aug 2024 05:30 pm

Tgt Ion: 43 Resp: 2014

Ion	Ratio	Lower	Upper
43	100		
58	63.5	11.5	51.5#
42	12.3	0.0	27.3

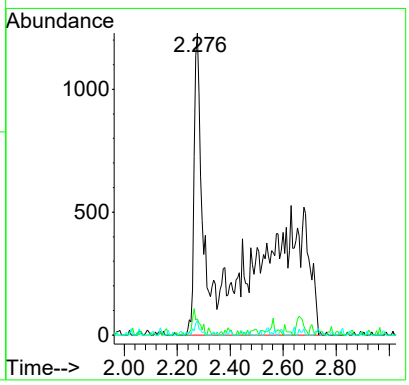


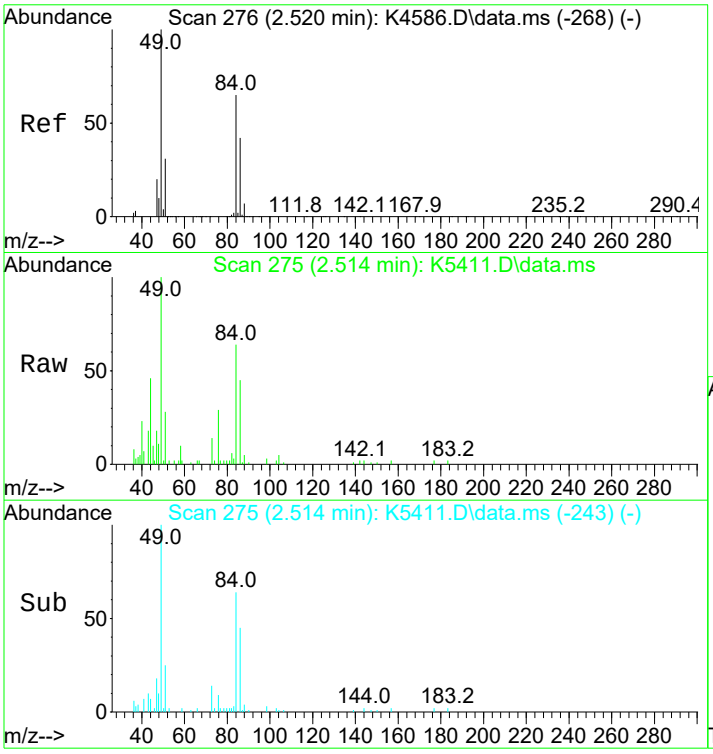


#19
Carbon Disulfide
Concen: 1.25 ug/L m
RT: 2.276 min Scan# 236
Delta R.T. -0.000 min
Lab File: K5411.D
Acq: 30 Aug 2024 05:30 pm

Tgt Ion: 76 Resp: 9514

Ion	Ratio	Lower	Upper
76	100		
78	5.4	0.0	29.2
77	4.7	0.0	22.7

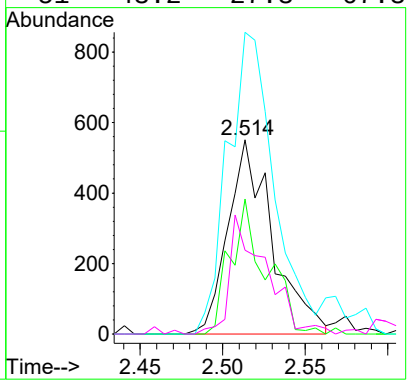


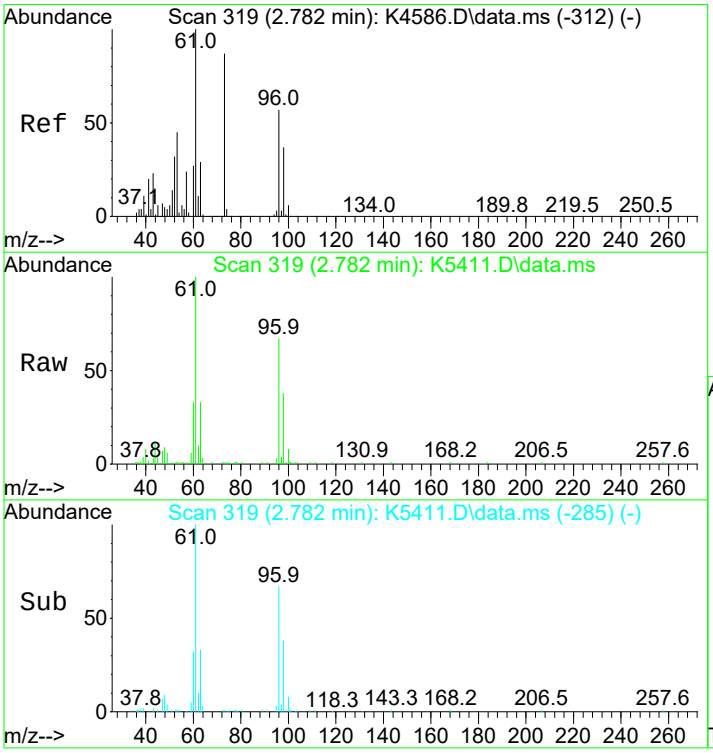


#22
Methylene Chloride
Concen: Below Cal
RT: 2.514 min Scan# 275
Delta R.T. -0.006 min
Lab File: K5411.D
Acq: 30 Aug 2024 05:30 pm

Tgt Ion: 84 Resp: 1038

Ion	Ratio	Lower	Upper
84	100		
86	69.5	44.7	84.7
49	155.4	134.9	174.9
51	43.2	27.3	67.3

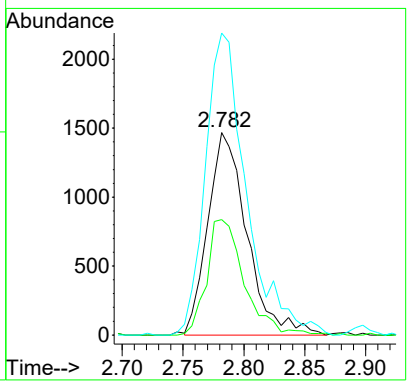


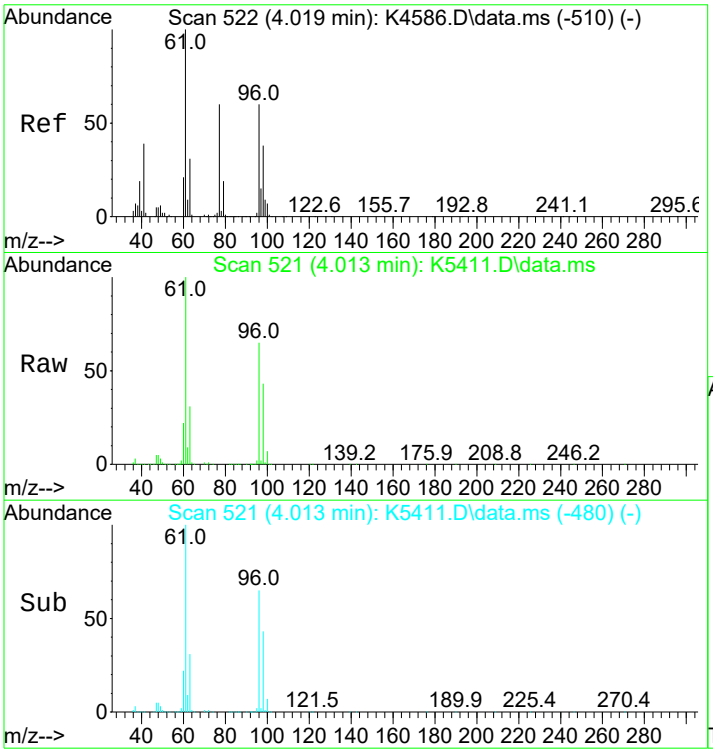


#26
trans-1,2-Dichloroethene
Concen: 0.97 ug/L
RT: 2.782 min Scan# 319
Delta R.T. -0.000 min
Lab File: K5411.D
Acq: 30 Aug 2024 05:30 pm

Tgt Ion: 96 Resp: 3279

Ion	Ratio	Lower	Upper
96	100		
98	57.0	45.1	85.1
61	149.1	154.0	194.0#

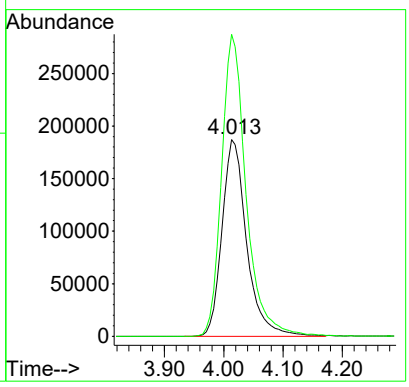


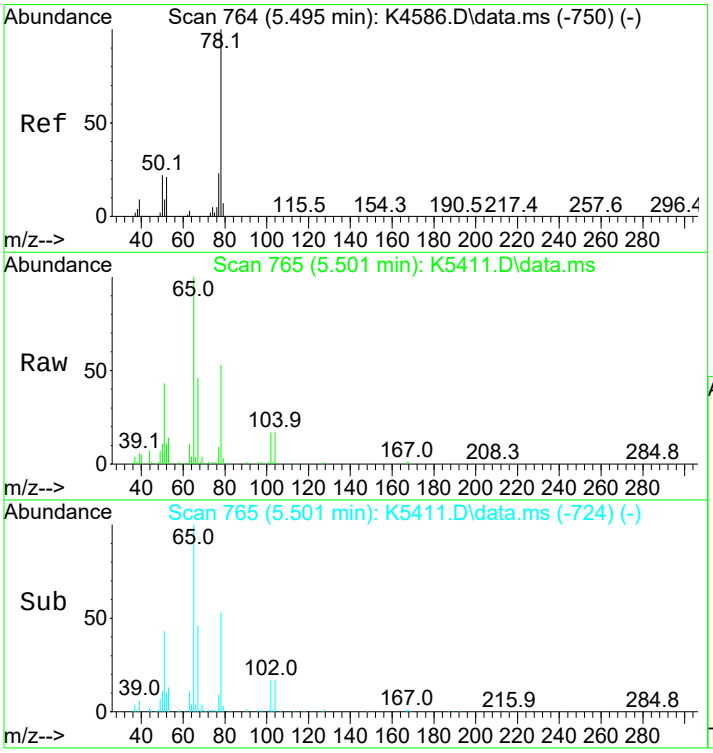


#33
cis-1,2-Dichloroethene
Concen: 137.34 ug/L
RT: 4.013 min Scan# 521
Delta R.T. -0.006 min
Lab File: K5411.D
Acq: 30 Aug 2024 05:30 pm

Tgt Ion: 96 Resp: 541494

Ion	Ratio	Lower	Upper
96	100		
61	153.5	147.9	187.9

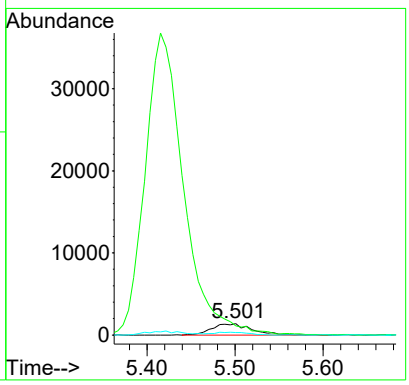


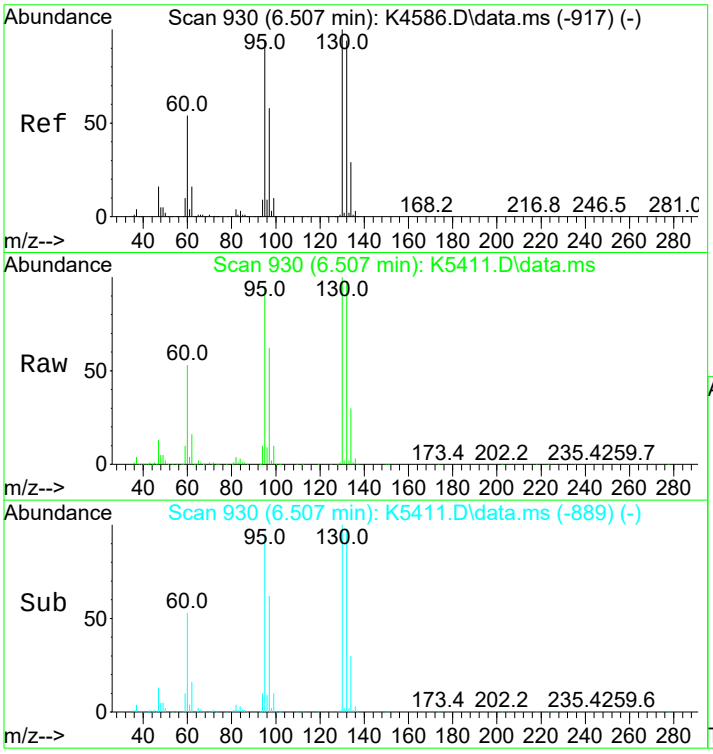


#48
Benzene
Concen: 0.33 ug/L m
RT: 5.501 min Scan# 765
Delta R.T. 0.006 min
Lab File: K5411.D
Acq: 30 Aug 2024 05:30 pm

Tgt Ion: 78 Resp: 4258

Ion	Ratio	Lower	Upper
78	100		
51	81.0	3.1	43.1#
52	20.4	1.2	41.2

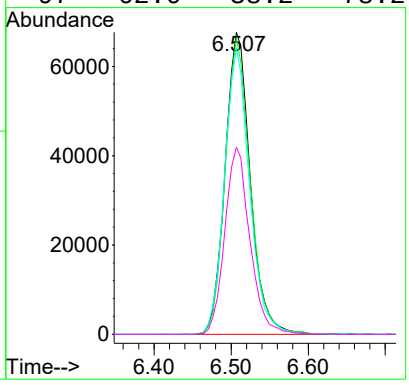


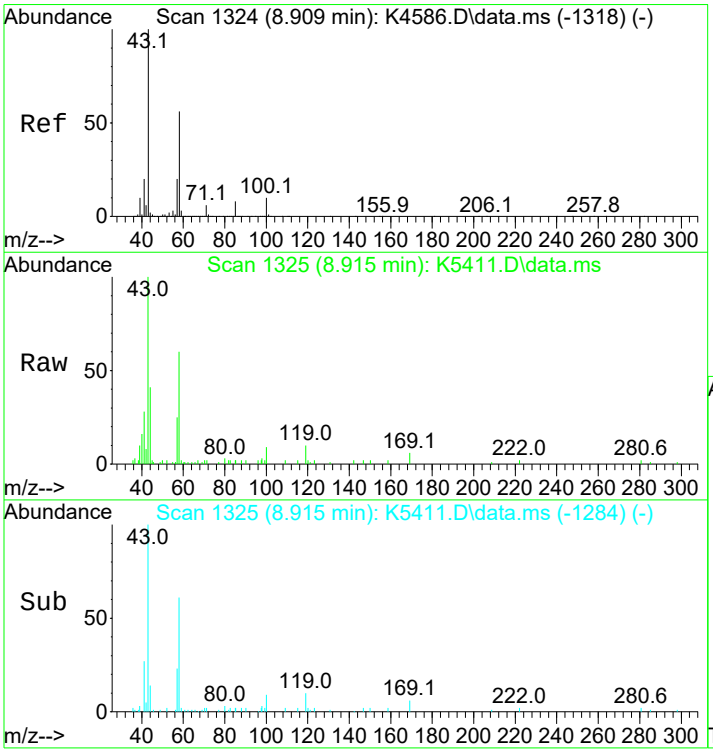


#53
Trichloroethene
Concen: 40.13 ug/L
RT: 6.507 min Scan# 930
Delta R.T. -0.000 min
Lab File: K5411.D
Acq: 30 Aug 2024 05:30 pm

Tgt Ion:130 Resp: 154001

Ion	Ratio	Lower	Upper
130	100		
132	98.2	74.0	114.0
95	94.7	74.1	114.1
97	62.0	38.2	78.2

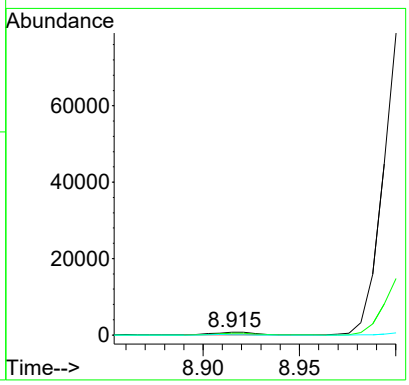




#72
2-Hexanone
Concen: 0.24 ug/L
RT: 8.915 min Scan# 1325
Delta R.T. 0.006 min
Lab File: K5411.D
Acq: 30 Aug 2024 05:30 pm

Tgt Ion: 43 Resp: 1125

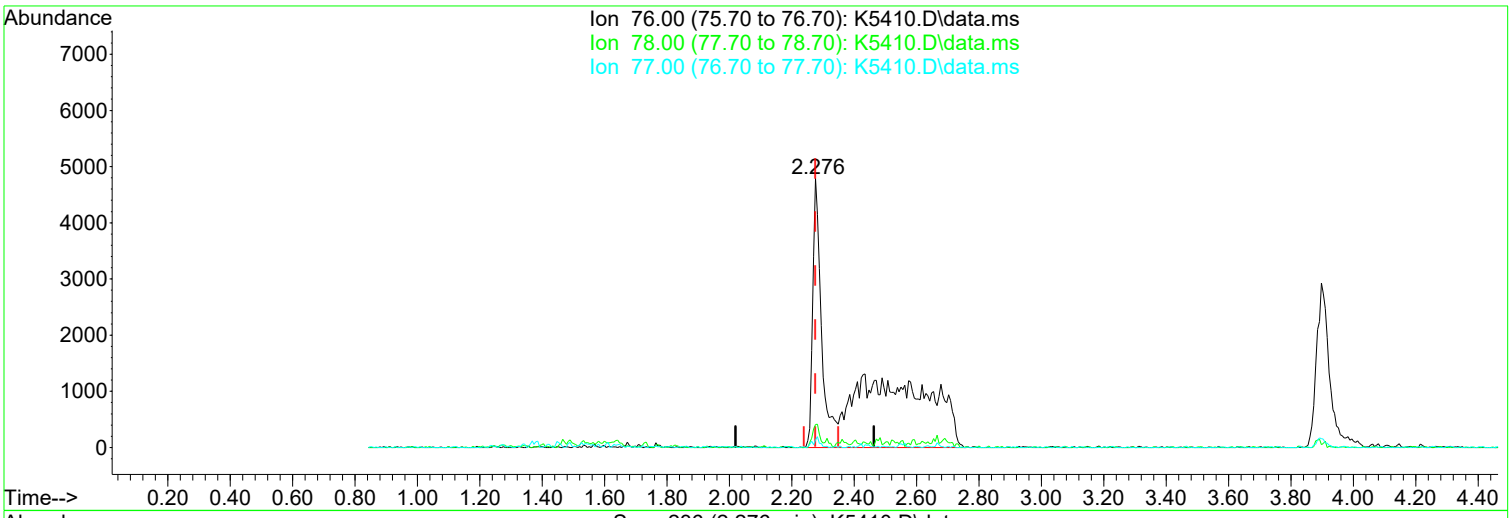
Ion	Ratio	Lower	Upper
43	100		
58	59.9	35.9	75.9
100	9.1	0.0	30.1

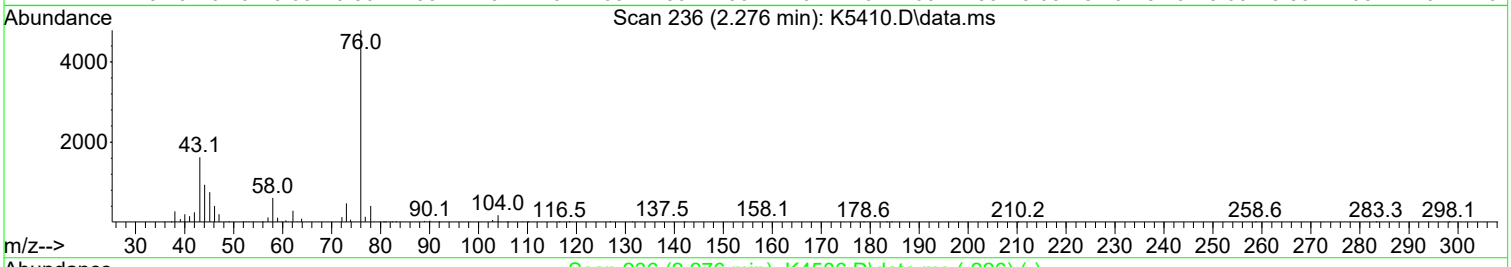


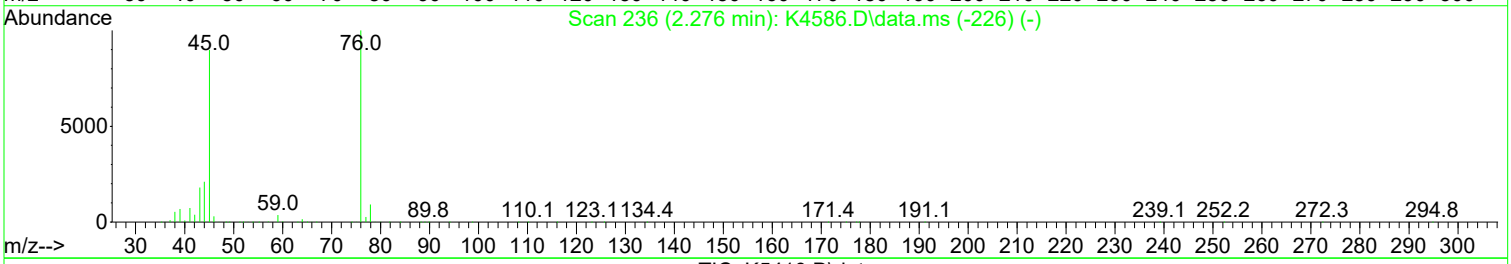
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5410.D
Acq On : 30 Aug 2024 05:06 pm
Operator : F.NAEGLER
Sample : R2408140-012
Misc : CEC 26473 T4
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Aug 31 09:39:31 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5410.D\data.ms

(19) Carbon Disulfide (P)

2.276min (-0.000) 4.06 ug/L m

response 30787

Ion	Exp%	Act%
76.00	100.00	100.00
78.00	9.20	8.60
77.00	2.70	2.84
0.00	0.00	0.00

Manual Integration:

After

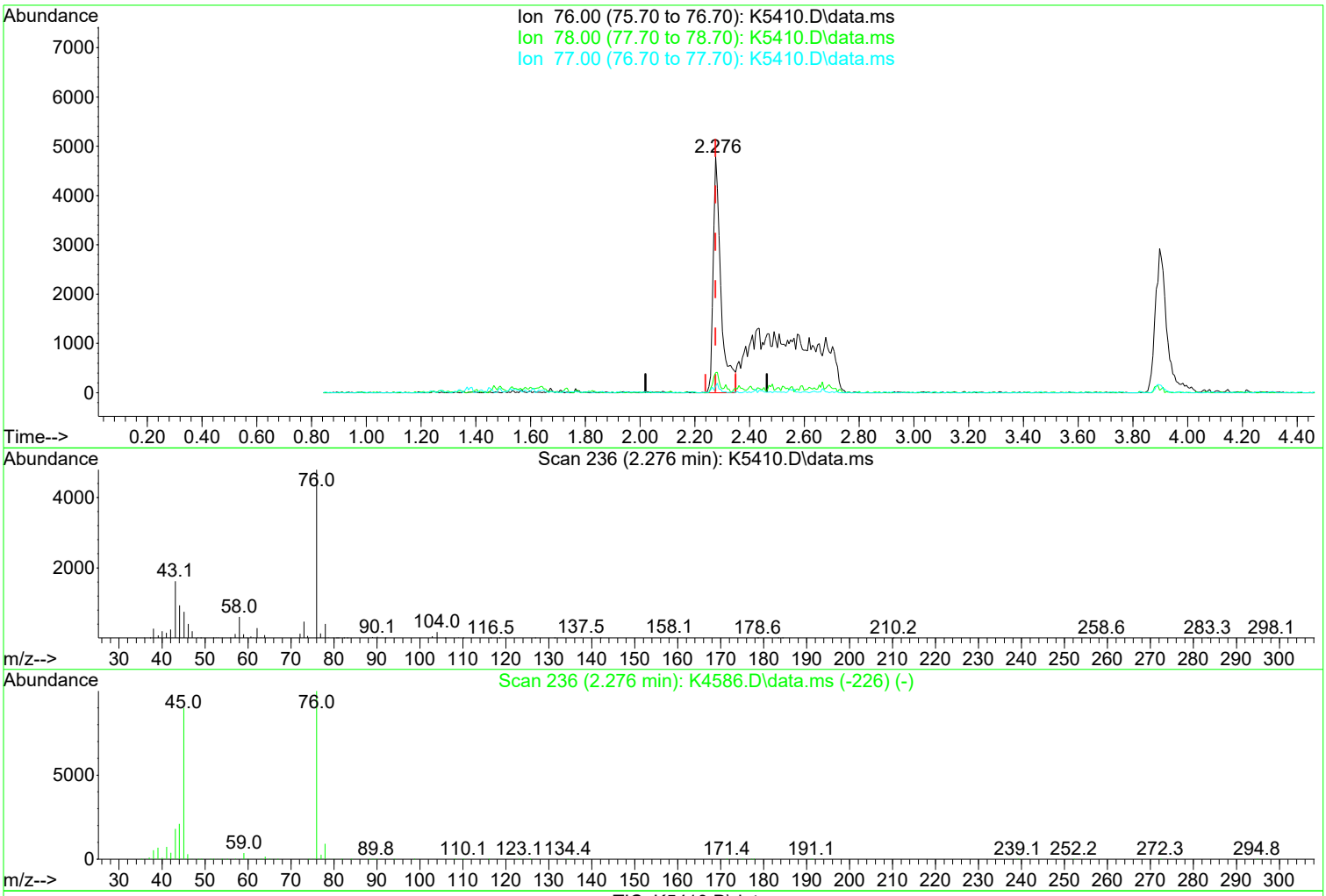
Poor integration.

09/04/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5410.D
Acq On : 30 Aug 2024 05:06 pm
Operator : F.NAEGLER
Sample : R2408140-012
Misc : CEC 26473 T4
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Aug 31 09:39:31 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration



TIC: K5410.D\data.ms

(19) Carbon Disulfide (P)

2.276min (-0.000) 1.24 ug/L

response 9406

Ion	Exp%	Act%
76.00	100.00	100.00
78.00	9.20	9.00
77.00	2.70	2.84
0.00	0.00	0.00

Manual Integration:

Before

09/04/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5410.D
Acq On : 30 Aug 2024 05:06 pm
Operator : F.NAEGLER
Sample : R2408140-012
Misc : CEC 26473 T4
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Aug 31 09:39:31 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

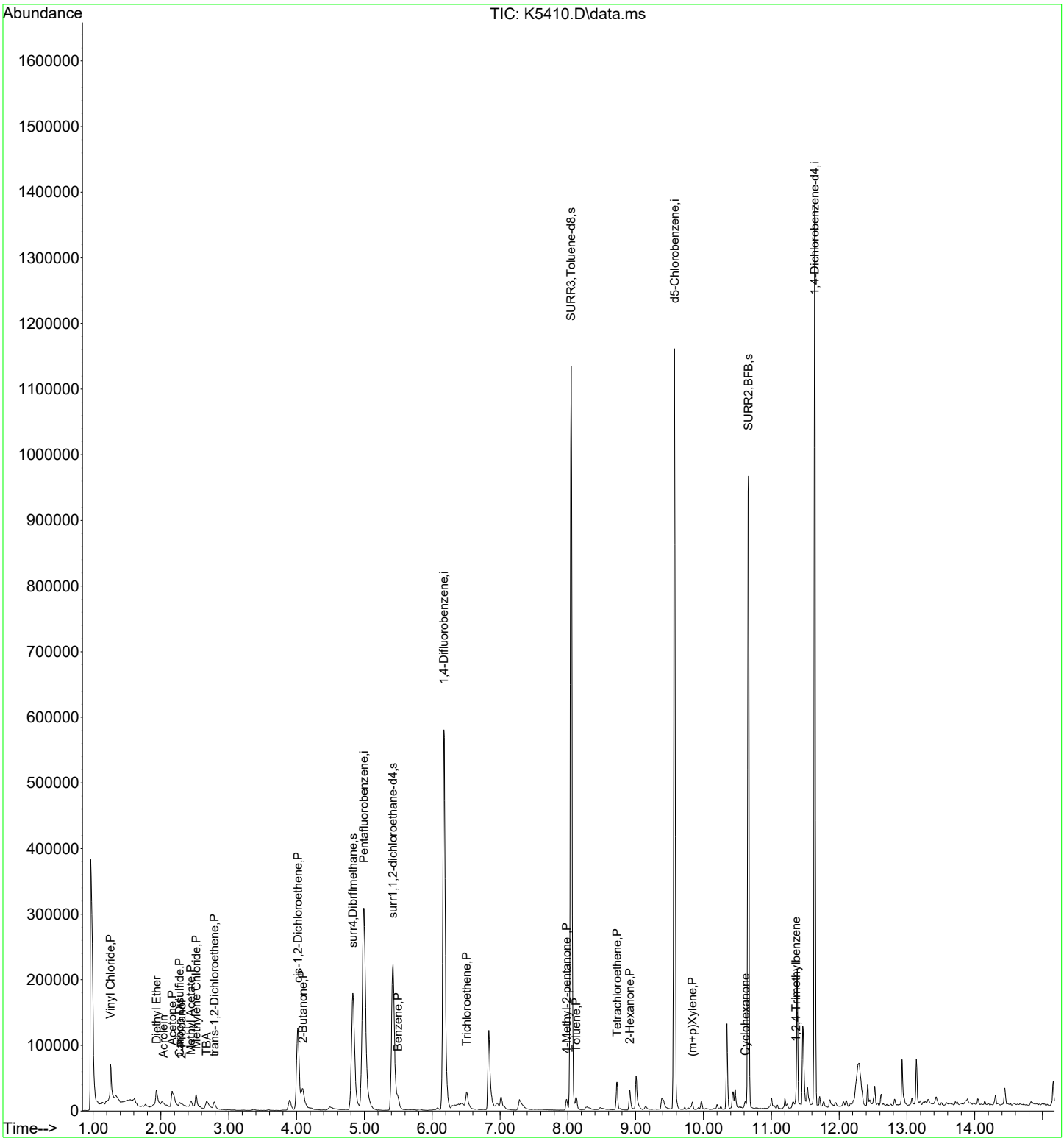
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.995	168	363621	50.00	ug/L		0.00
42) 1,4-Difluorobenzene	6.171	114	604193	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.573	117	531838	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	246083	50.00	ug/L	#	0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.830	113	188489	50.01	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 100.02%				
47) surr1,1,2-dichloroetha...	5.422	65	257897	50.06	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.12%				
64) SURR3,Toluene-d8	8.049	98	722023	52.20	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 104.40%				
69) SURR2,BFB	10.665	95	269192	49.50	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.00%				
Target Compounds							Qvalue
5) Vinyl Chloride	1.258	62	57466	11.348	ug/L		96
10) Diethyl Ether	1.934	59	12814	3.252	ug/L	#	69
13) Acrolein	2.038	56	412	0.710	ug/L	#	51
16) Acetone	2.166	43	46451	15.960	ug/L		96
17) 2-Propanol	2.306	45	17858	31.112	ug/L	#	50
19) Carbon Disulfide	2.276	76	30787m	4.057	ug/L		
21) Methyl Acetate	2.440	43	13202	2.599	ug/L		97
22) Methylene Chloride	2.520	84	8786	1.777	ug/L		98
23) TBA	2.672	59	30551	28.717	ug/L		98
26) trans-1,2-Dichloroethene	2.788	96	3832	1.133	ug/L		93
33) cis-1,2-Dichloroethene	4.019	96	77761	19.770	ug/L		87
34) 2-Butanone	4.093	43	63552	18.299	ug/L		99
48) Benzene	5.495	78	12957	1.003	ug/L	#	66
53) Trichloroethene	6.507	130	9451	2.467	ug/L		96
63) 4-Methyl-2-pentanone	7.982	43	11815	1.928	ug/L		95
65) Toluene	8.122	91	8591	0.586	ug/L		97
71) Tetrachloroethene	8.726	164	8239	3.142	ug/L		93
72) 2-Hexanone	8.915	43	19280	4.113	ug/L		96
82) (m+p)Xylene	9.835	106	2575	0.417	ug/L		93
88) Cyclohexanone	10.616	55	2614	2.246	ug/L		91
100) 1,2,4-Trimethylbenzene	11.366	105	4610	0.337	ug/L		92

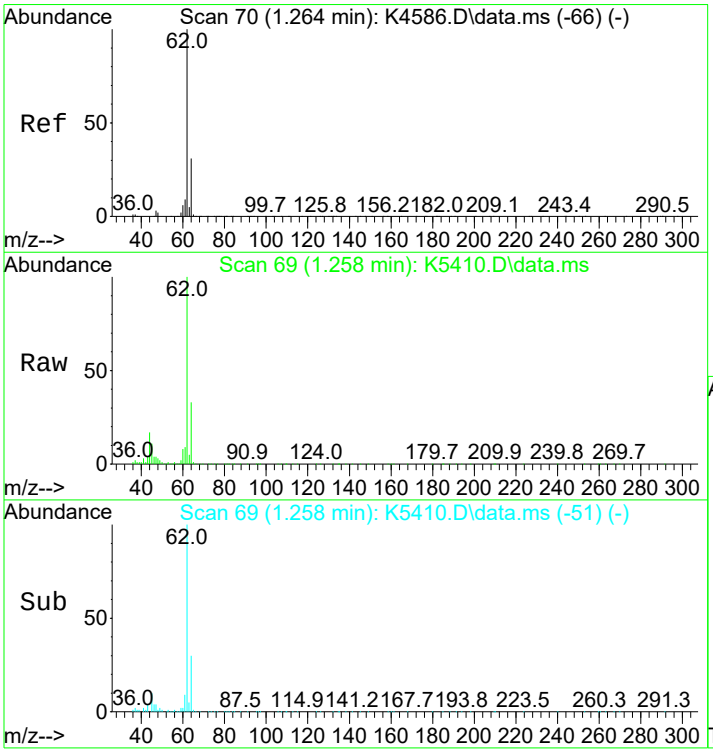
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5410.D
Acq On : 30 Aug 2024 05:06 pm
Operator : F.NAEGLER
Sample : R2408140-012
Misc : CEC 26473 T4
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Aug 31 09:39:31 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

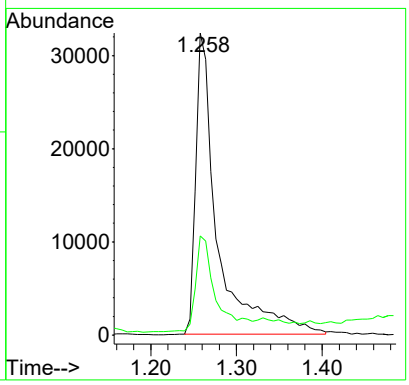


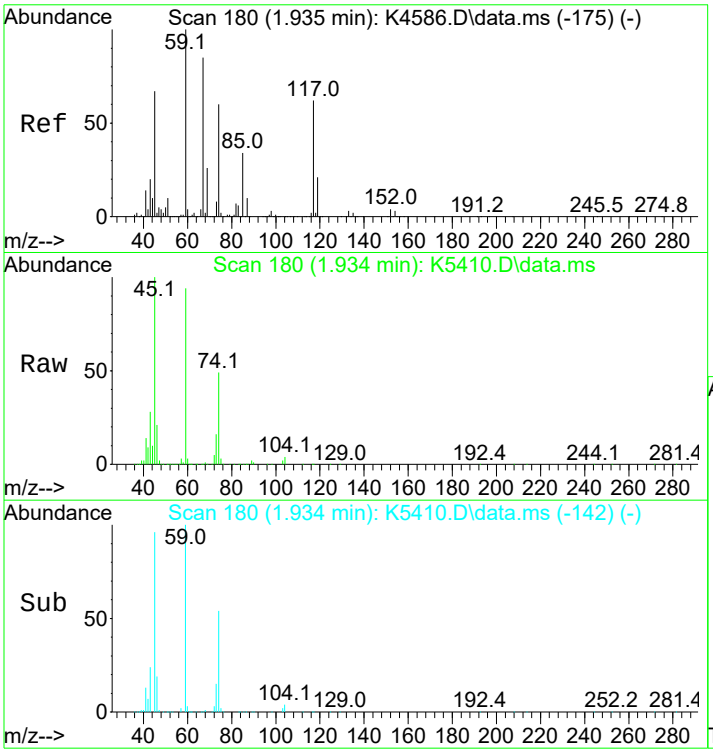


#5
Vinyl Chloride
Concen: 11.35 ug/L
RT: 1.258 min Scan# 69
Delta R.T. -0.006 min
Lab File: K5410.D
Acq: 30 Aug 2024 05:06 pm

Tgt Ion: 62 Resp: 57466

Ion	Ratio	Lower	Upper
62	100		
64	32.8	10.9	50.9

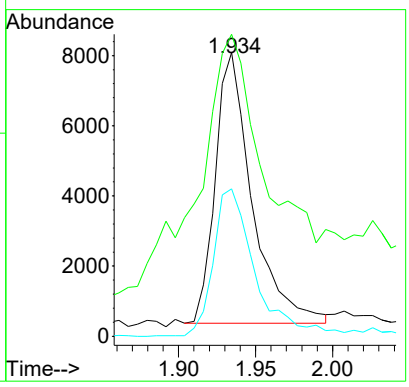


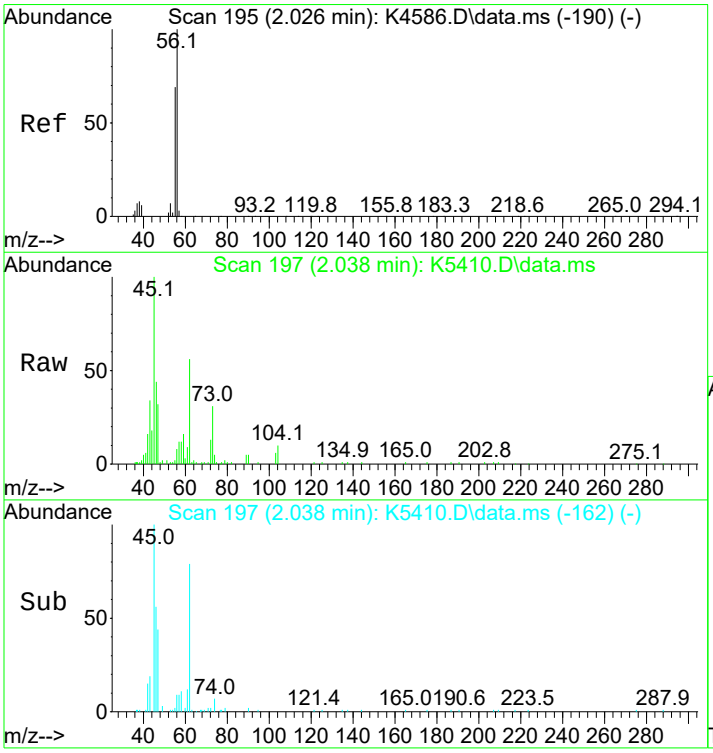


#10
Diethyl Ether
Concen: 3.25 ug/L
RT: 1.934 min Scan# 180
Delta R.T. -0.000 min
Lab File: K5410.D
Acq: 30 Aug 2024 05:06 pm

Tgt Ion: 59 Resp: 12814

Ion	Ratio	Lower	Upper
59	100		
45	106.4	47.3	87.3#
74	51.9	39.8	79.8

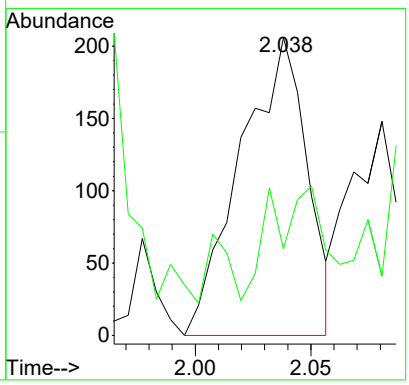


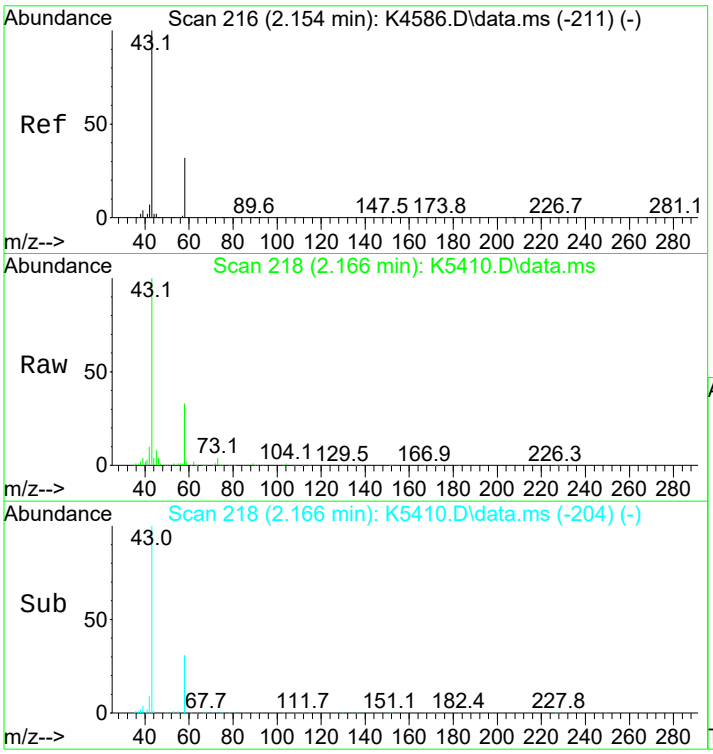


#13
Acrolein
Concen: 0.71 ug/L
RT: 2.038 min Scan# 197
Delta R.T. 0.012 min
Lab File: K5410.D
Acq: 30 Aug 2024 05:06 pm

Tgt Ion: 56 Resp: 412

Ion	Ratio	Lower	Upper
56	100		
55	29.1	49.5	89.5#

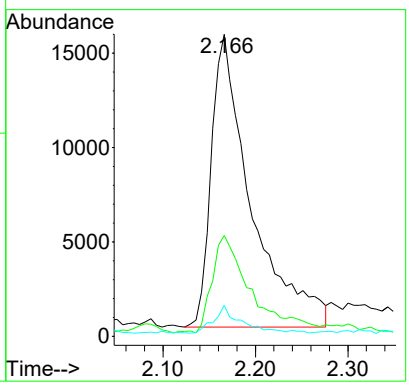


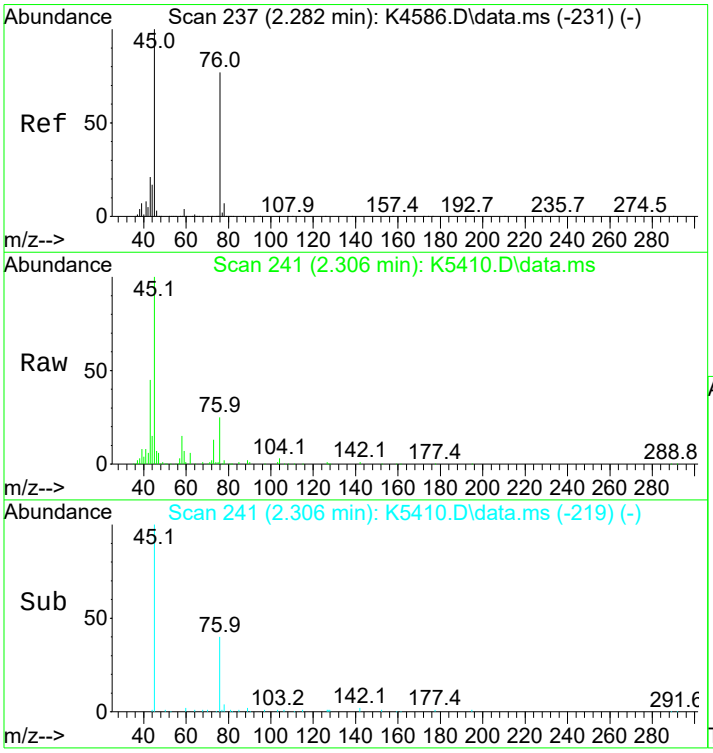


#16
Acetone
Concen: 15.96 ug/L
RT: 2.166 min Scan# 218
Delta R.T. 0.012 min
Lab File: K5410.D
Acq: 30 Aug 2024 05:06 pm

Tgt Ion: 43 Resp: 46451

Ion	Ratio	Lower	Upper
43	100		
58	33.3	11.5	51.5
42	10.3	0.0	27.3

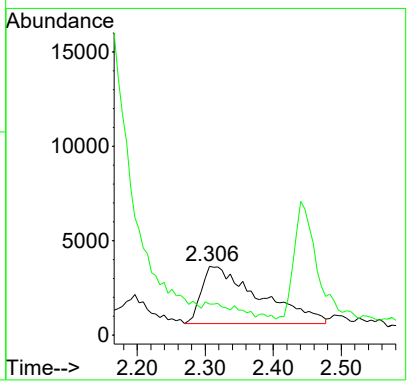


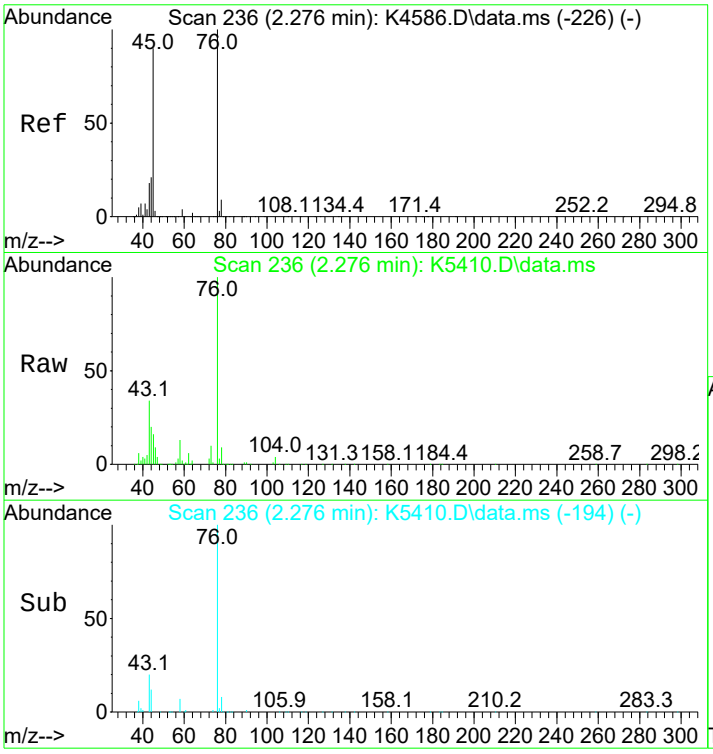


#17
2-Propanol
Concen: 31.11 ug/L
RT: 2.306 min Scan# 241
Delta R.T. 0.024 min
Lab File: K5410.D
Acq: 30 Aug 2024 05:06 pm

Tgt Ion: 45 Resp: 17858

Ion	Ratio	Lower	Upper
45	100		
43	44.9	1.4	41.4#

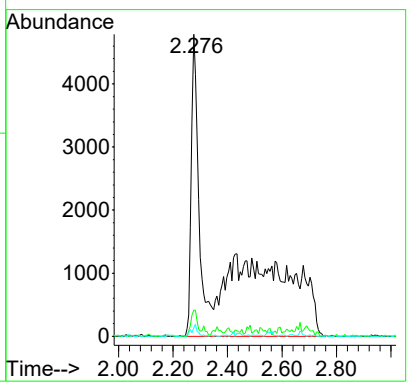


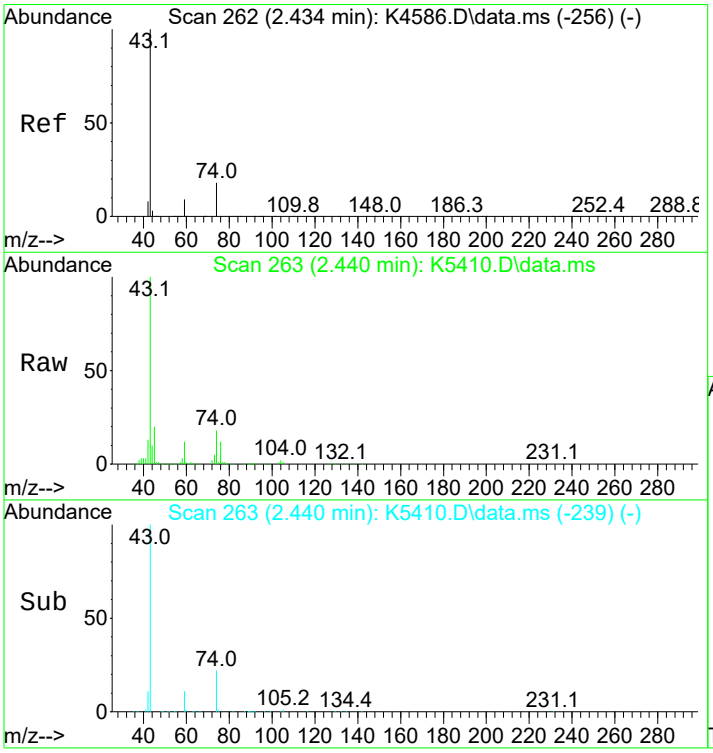


#19
Carbon Disulfide
Concen: 4.06 ug/L m
RT: 2.276 min Scan# 236
Delta R.T. -0.000 min
Lab File: K5410.D
Acq: 30 Aug 2024 05:06 pm

Tgt Ion: 76 Resp: 30787

Ion	Ratio	Lower	Upper
76	100		
78	8.6	0.0	29.2
77	2.8	0.0	22.7

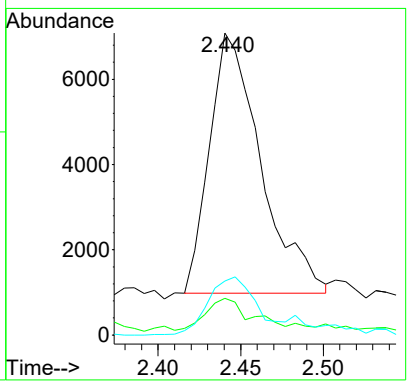


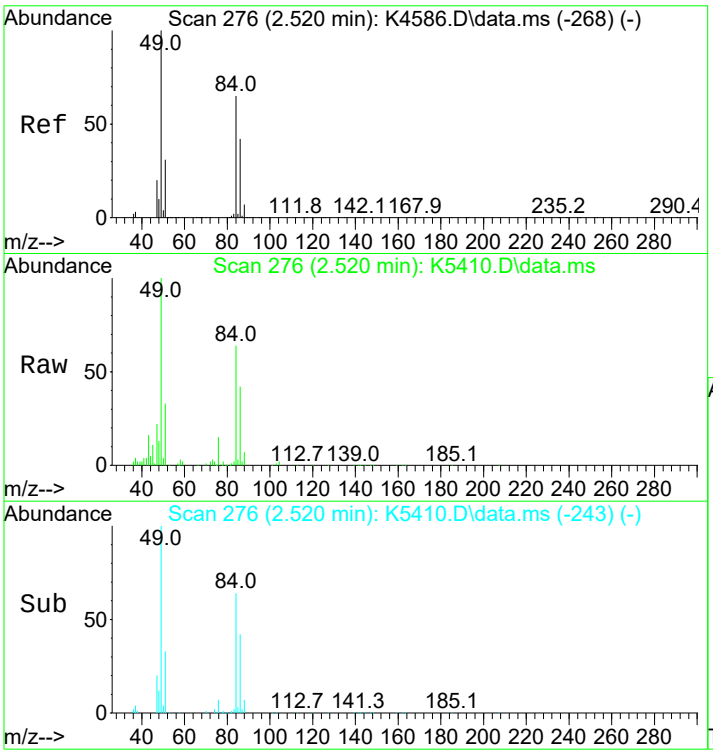


#21
Methyl Acetate
Concen: 2.60 ug/L
RT: 2.440 min Scan# 263
Delta R.T. 0.006 min
Lab File: K5410.D
Acq: 30 Aug 2024 05:06 pm

Tgt Ion: 43 Resp: 13202

Ion	Ratio	Lower	Upper
43	100		
59	12.2	0.0	29.1
74	17.9	0.0	38.1

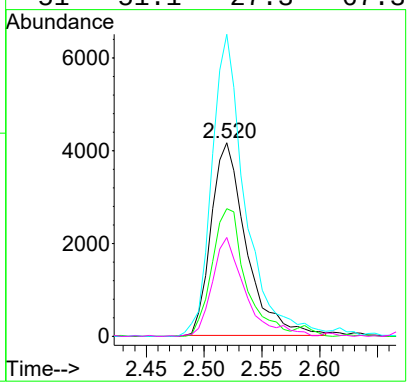


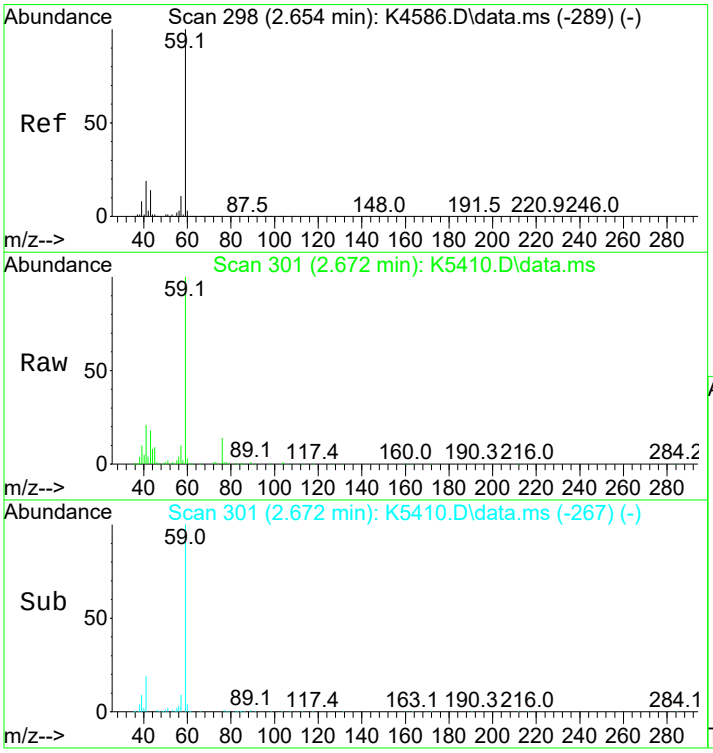


#22
Methylene Chloride
Concen: 1.78 ug/L
RT: 2.520 min Scan# 276
Delta R.T. 0.001 min
Lab File: K5410.D
Acq: 30 Aug 2024 05:06 pm

Tgt Ion: 84 Resp: 8786

Ion	Ratio	Lower	Upper
84	100		
86	65.8	44.7	84.7
49	156.0	134.9	174.9
51	51.1	27.3	67.3

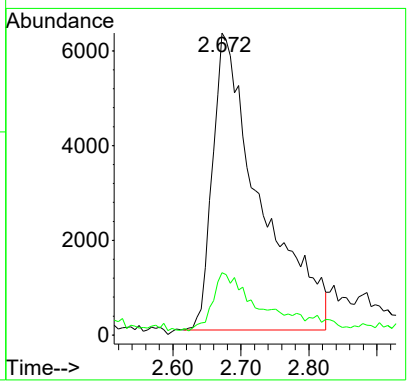


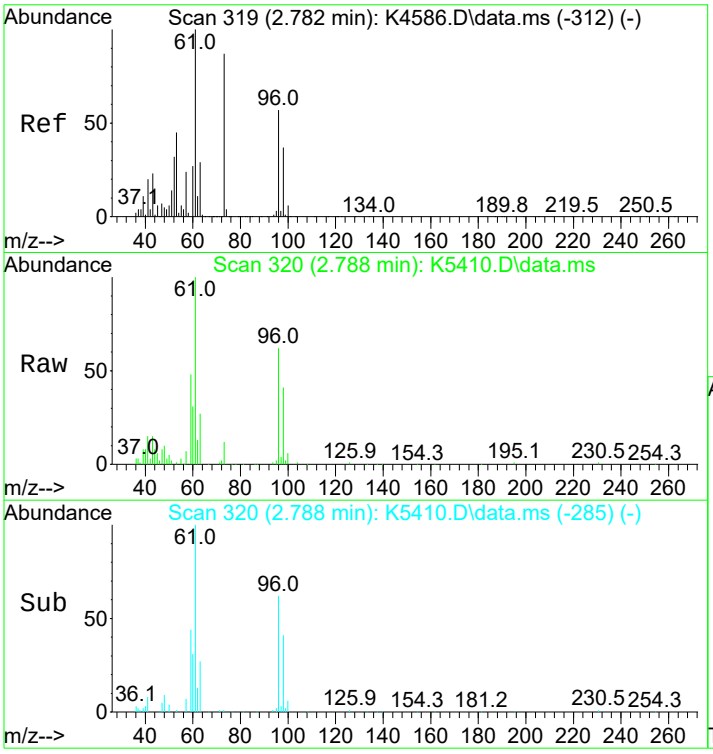


#23
TBA
Concen: 28.72 ug/L
RT: 2.672 min Scan# 301
Delta R.T. 0.018 min
Lab File: K5410.D
Acq: 30 Aug 2024 05:06 pm

Tgt Ion: 59 Resp: 30551

Ion	Ratio	Lower	Upper
59	100		
41	20.6	0.0	39.7

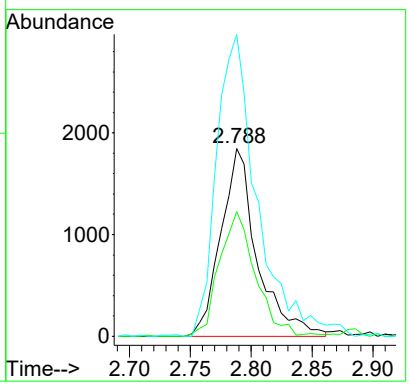


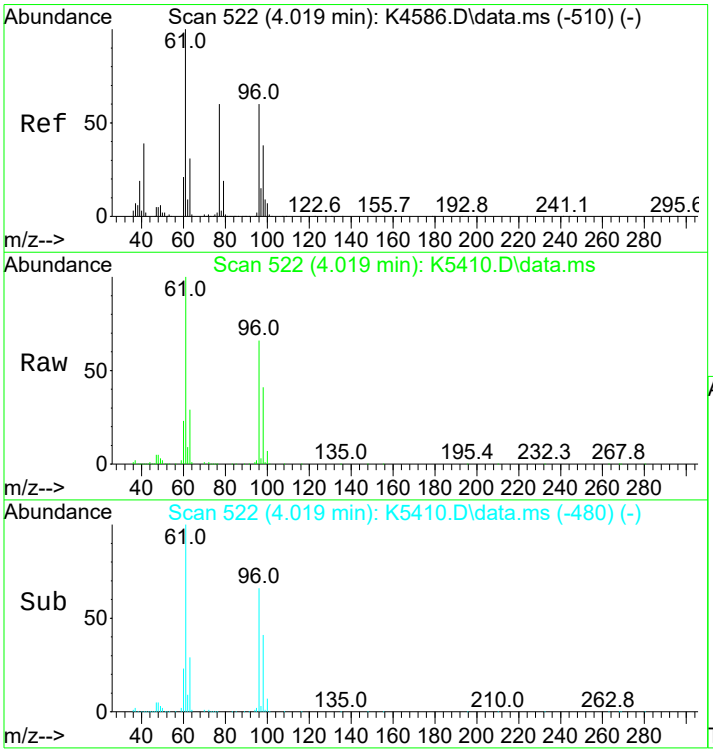


#26
trans-1,2-Dichloroethene
Concen: 1.13 ug/L
RT: 2.788 min Scan# 320
Delta R.T. 0.006 min
Lab File: K5410.D
Acq: 30 Aug 2024 05:06 pm

Tgt Ion: 96 Resp: 3832

Ion	Ratio	Lower	Upper
96	100		
98	66.4	45.1	85.1
61	160.8	154.0	194.0

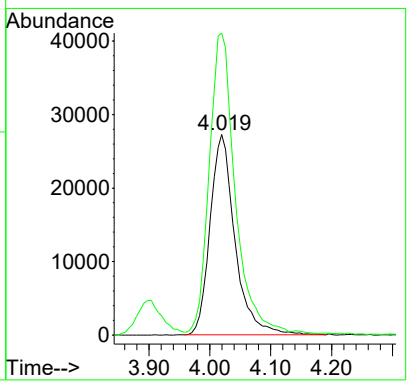


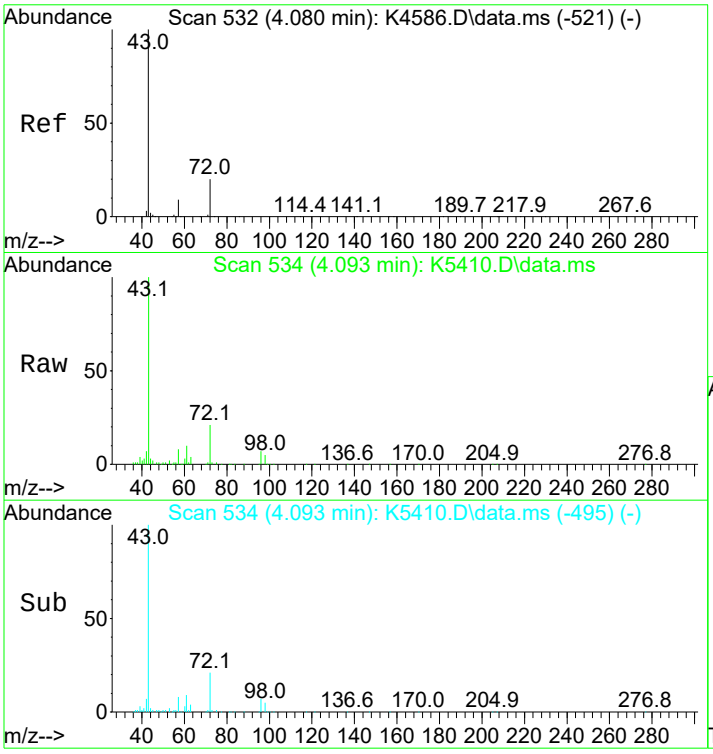


#33
cis-1,2-Dichloroethene
Concen: 19.77 ug/L
RT: 4.019 min Scan# 522
Delta R.T. -0.000 min
Lab File: K5410.D
Acq: 30 Aug 2024 05:06 pm

Tgt Ion: 96 Resp: 77761

Ion	Ratio	Lower	Upper
96	100		
61	150.6	147.9	187.9

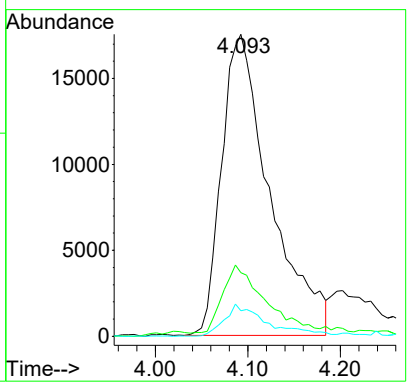


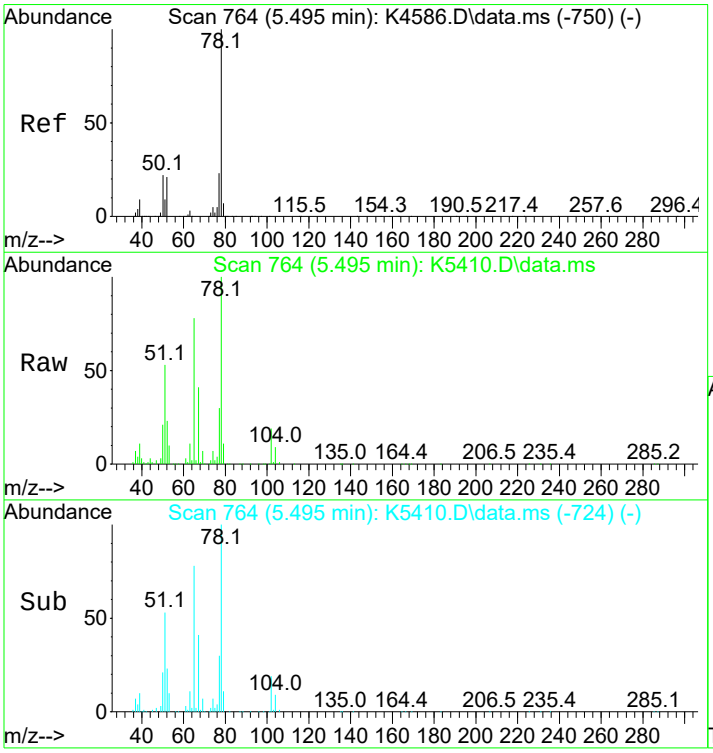


#34
2-Butanone
Concen: 18.30 ug/L
RT: 4.093 min Scan# 534
Delta R.T. 0.012 min
Lab File: K5410.D
Acq: 30 Aug 2024 05:06 pm

Tgt Ion: 43 Resp: 63552

Ion	Ratio	Lower	Upper
43	100		
72	21.0	1.2	41.2
57	8.4	0.0	29.2

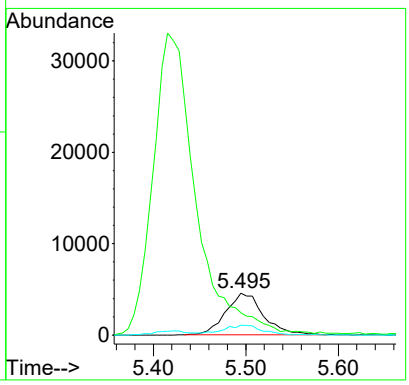


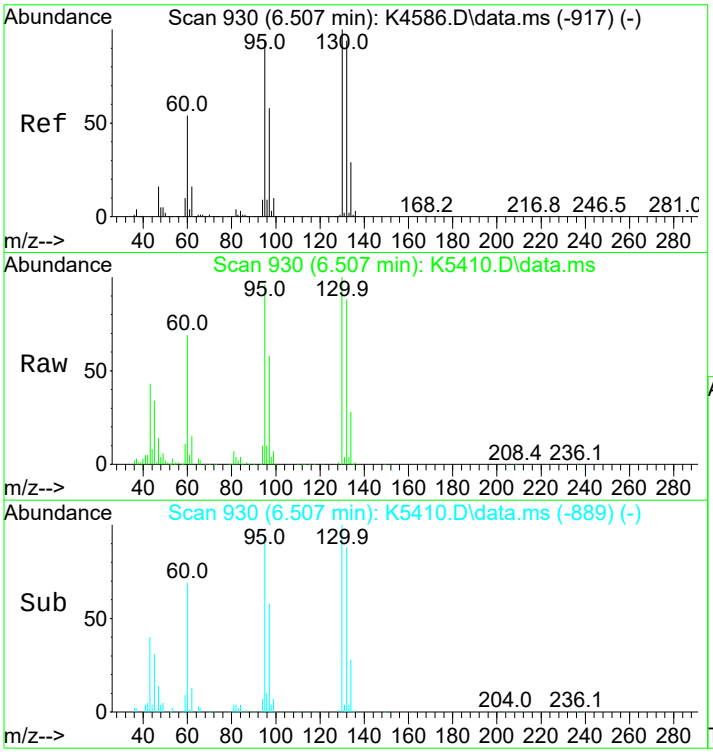


#48
Benzene
Concen: 1.00 ug/L
RT: 5.495 min Scan# 764
Delta R.T. -0.000 min
Lab File: K5410.D
Acq: 30 Aug 2024 05:06 pm

Tgt Ion: 78 Resp: 12957

Ion	Ratio	Lower	Upper
78	100		
51	52.9	3.1	43.1#
52	23.2	1.2	41.2

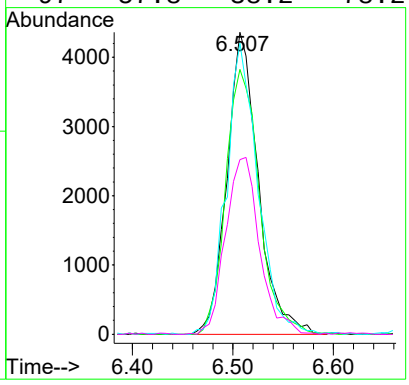


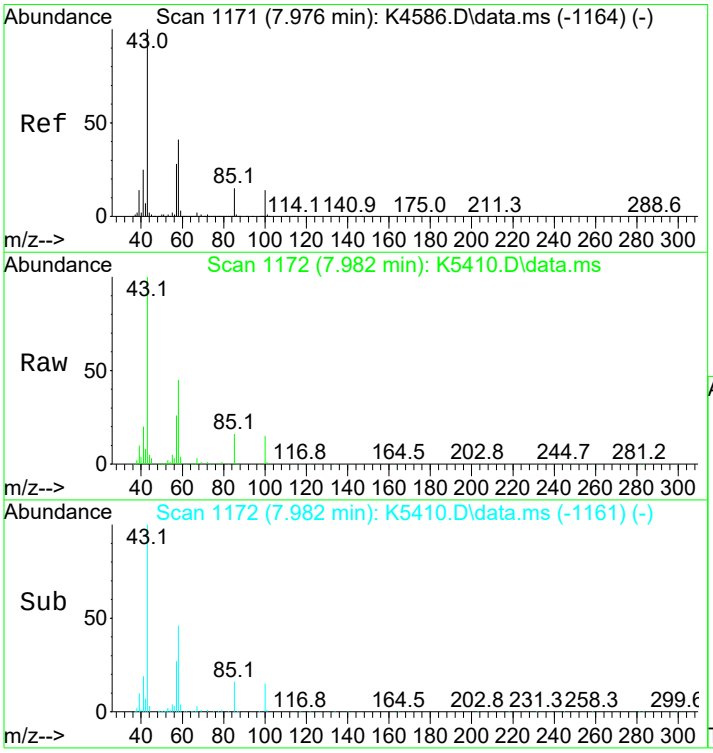


#53
Trichloroethene
Concen: 2.47 ug/L
RT: 6.507 min Scan# 930
Delta R.T. -0.000 min
Lab File: K5410.D
Acq: 30 Aug 2024 05:06 pm

Tgt Ion:130 Resp: 9451

Ion	Ratio	Lower	Upper
130	100		
132	87.7	74.0	114.0
95	96.4	74.1	114.1
97	57.8	38.2	78.2

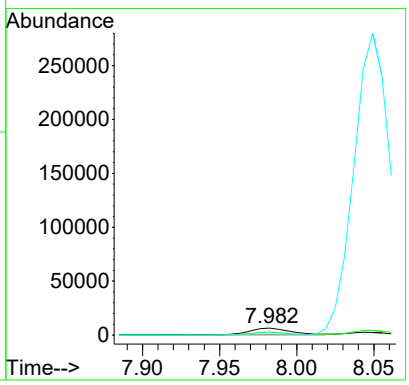


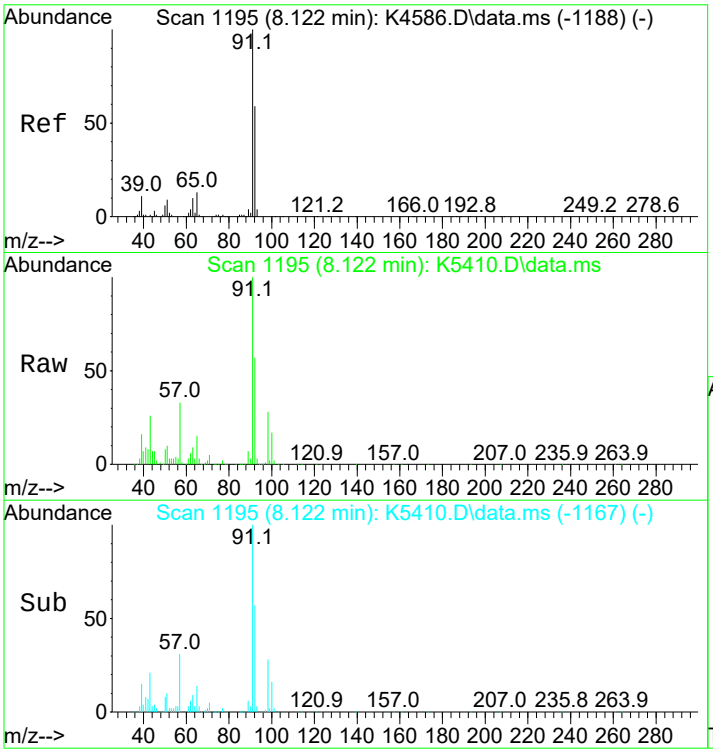


#63
4-Methyl-2-pentanone
Concen: 1.93 ug/L
RT: 7.982 min Scan# 1172
Delta R.T. 0.006 min
Lab File: K5410.D
Acq: 30 Aug 2024 05:06 pm

Tgt Ion: 43 Resp: 11815

Ion	Ratio	Lower	Upper
43	100		
58	44.6	21.3	61.3
100	14.9	0.0	33.7

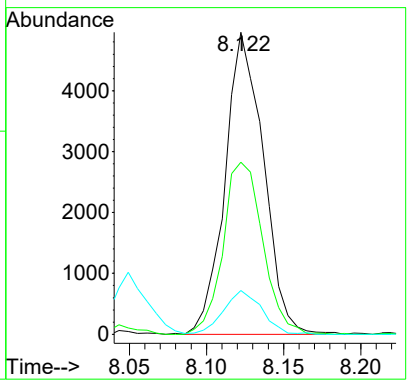


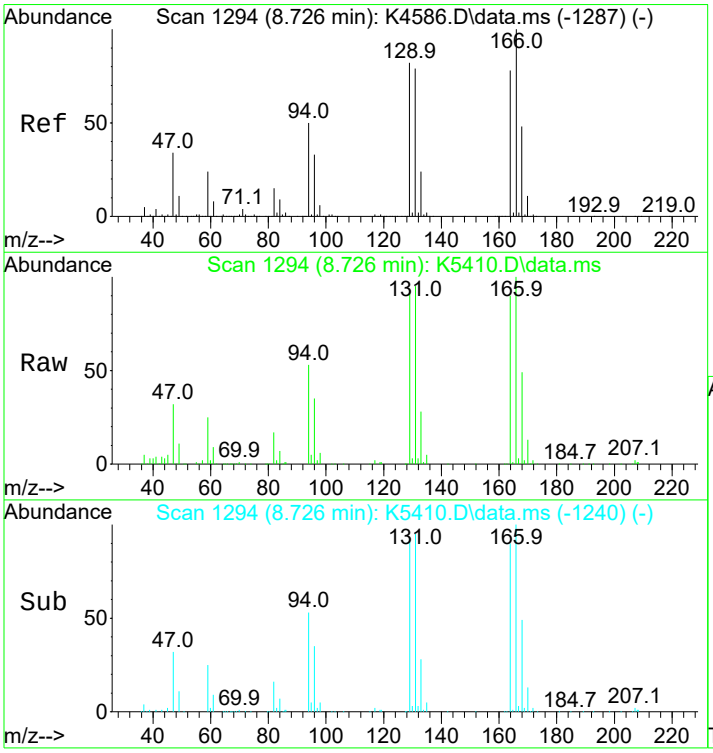


#65
Toluene
Concen: 0.59 ug/L
RT: 8.122 min Scan# 1195
Delta R.T. -0.000 min
Lab File: K5410.D
Acq: 30 Aug 2024 05:06 pm

Tgt Ion: 91 Resp: 8591

Ion	Ratio	Lower	Upper
91	100		
92	57.0	39.0	79.0
65	14.5	0.0	32.8

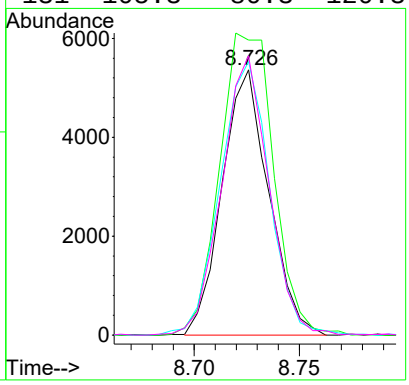


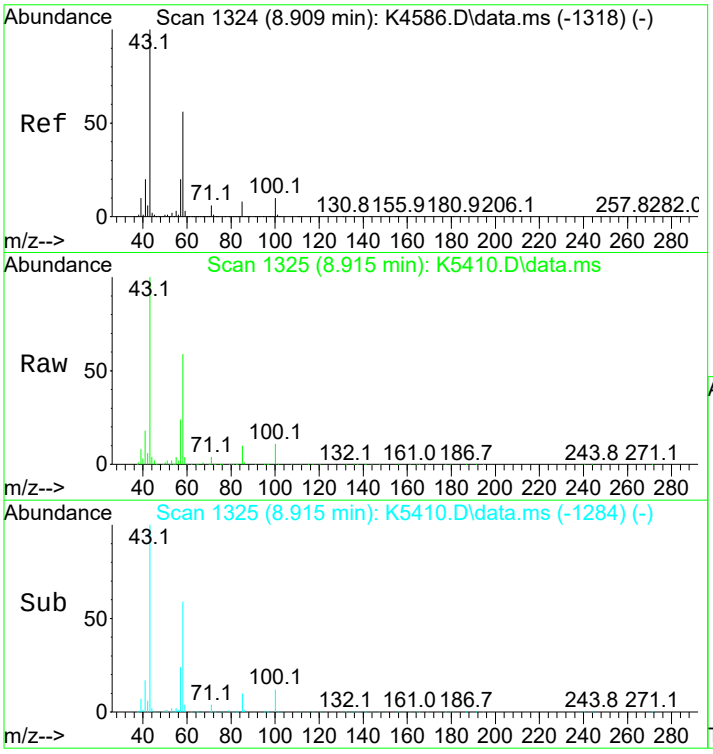


#71
Tetrachloroethene
Concen: 3.14 ug/L
RT: 8.726 min Scan# 1294
Delta R.T. -0.000 min
Lab File: K5410.D
Acq: 30 Aug 2024 05:06 pm

Tgt Ion:164 Resp: 8239

Ion	Ratio	Lower	Upper
164	100		
166	111.3	107.5	147.5
129	103.2	84.9	124.9
131	105.3	80.3	120.3

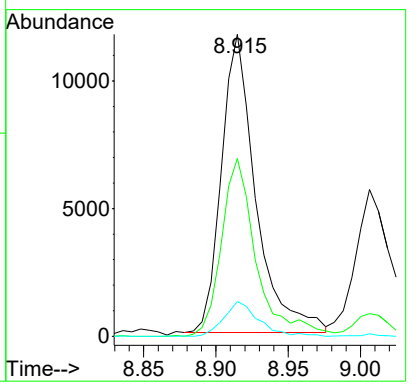


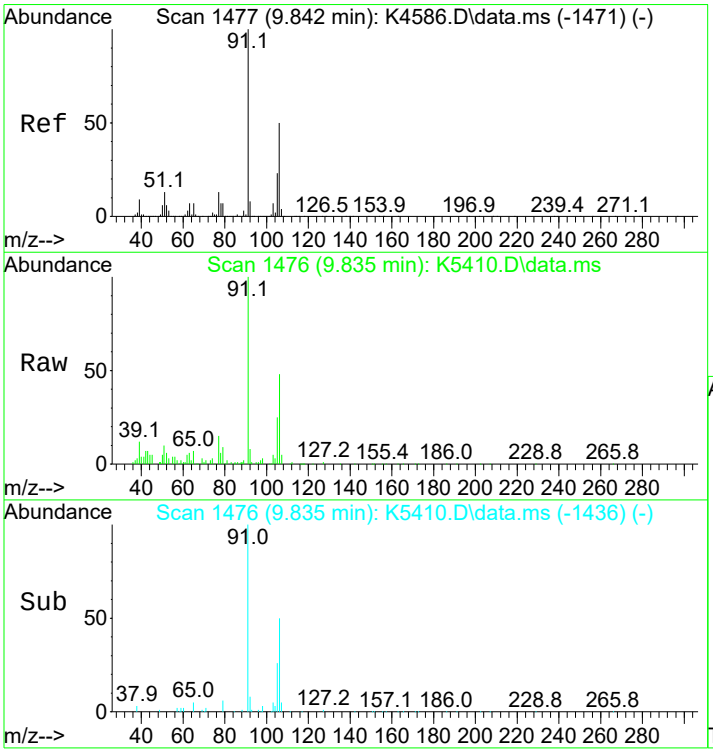


#72
2-Hexanone
Concen: 4.11 ug/L
RT: 8.915 min Scan# 1325
Delta R.T. 0.006 min
Lab File: K5410.D
Acq: 30 Aug 2024 05:06 pm

Tgt Ion: 43 Resp: 19280

Ion	Ratio	Lower	Upper
43	100		
58	58.8	35.9	75.9
100	11.5	0.0	30.1

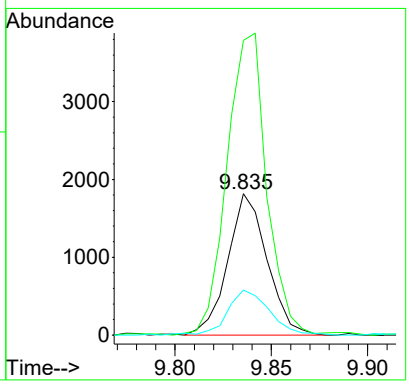


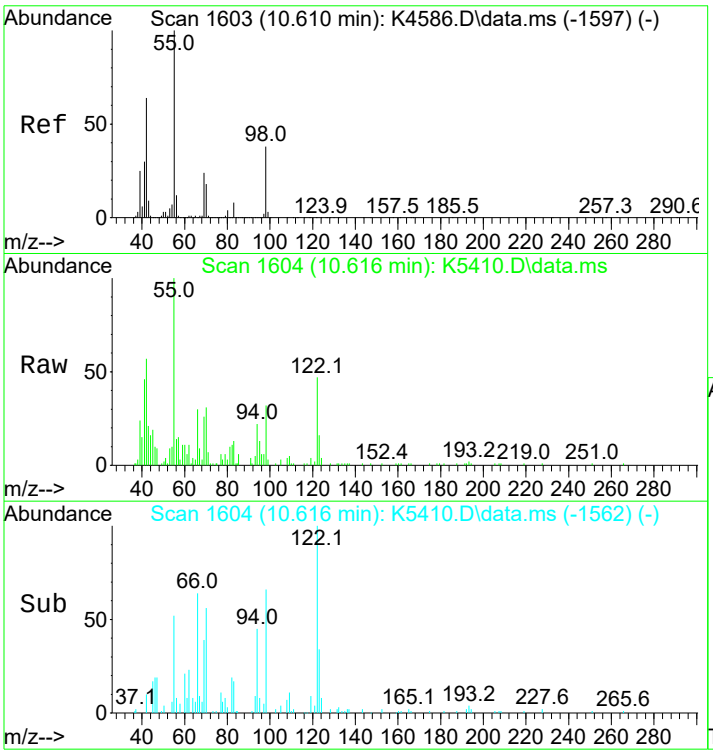


#82
(m+p)Xylene
Concen: 0.42 ug/L
RT: 9.835 min Scan# 1476
Delta R.T. -0.006 min
Lab File: K5410.D
Acq: 30 Aug 2024 05:06 pm

Tgt Ion:106 Resp: 2575

Ion	Ratio	Lower	Upper
106	100		
91	208.4	178.7	218.7
77	31.8	5.9	45.9

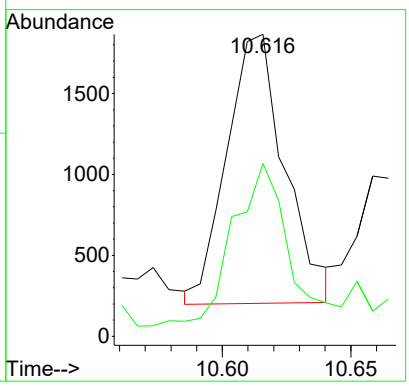


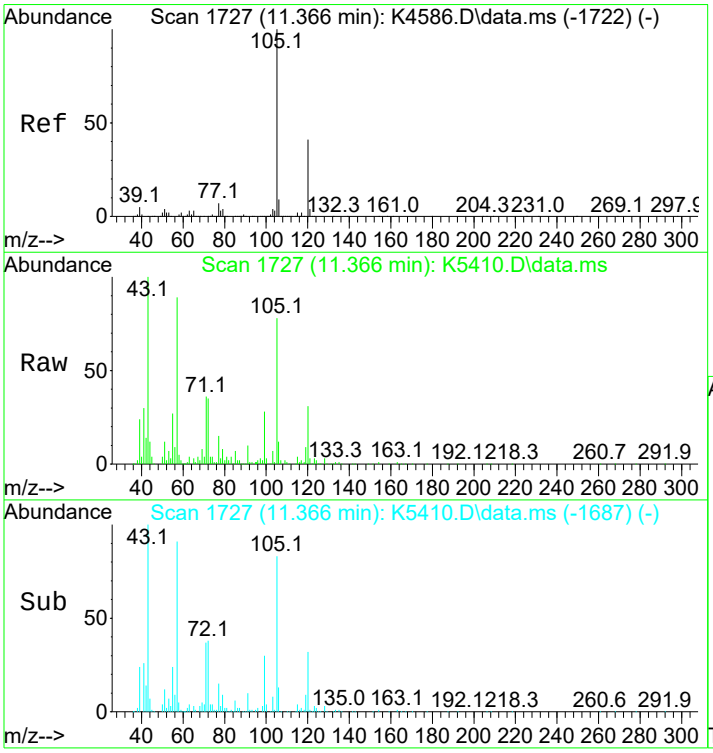


#88
Cyclohexanone
Concen: 2.25 ug/L
RT: 10.616 min Scan# 1604
Delta R.T. 0.006 min
Lab File: K5410.D
Acq: 30 Aug 2024 05:06 pm

Tgt Ion: 55 Resp: 2614

Ion	Ratio	Lower	Upper
55	100		
42	57.2	44.5	84.5

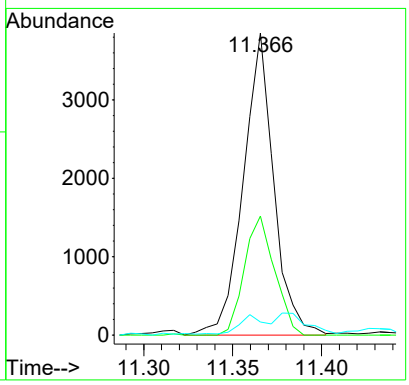




#100
1,2,4-Trimethylbenzene
Concen: 0.34 ug/L
RT: 11.366 min Scan# 1727
Delta R.T. -0.000 min
Lab File: K5410.D
Acq: 30 Aug 2024 05:06 pm

Tgt Ion:105 Resp: 4610

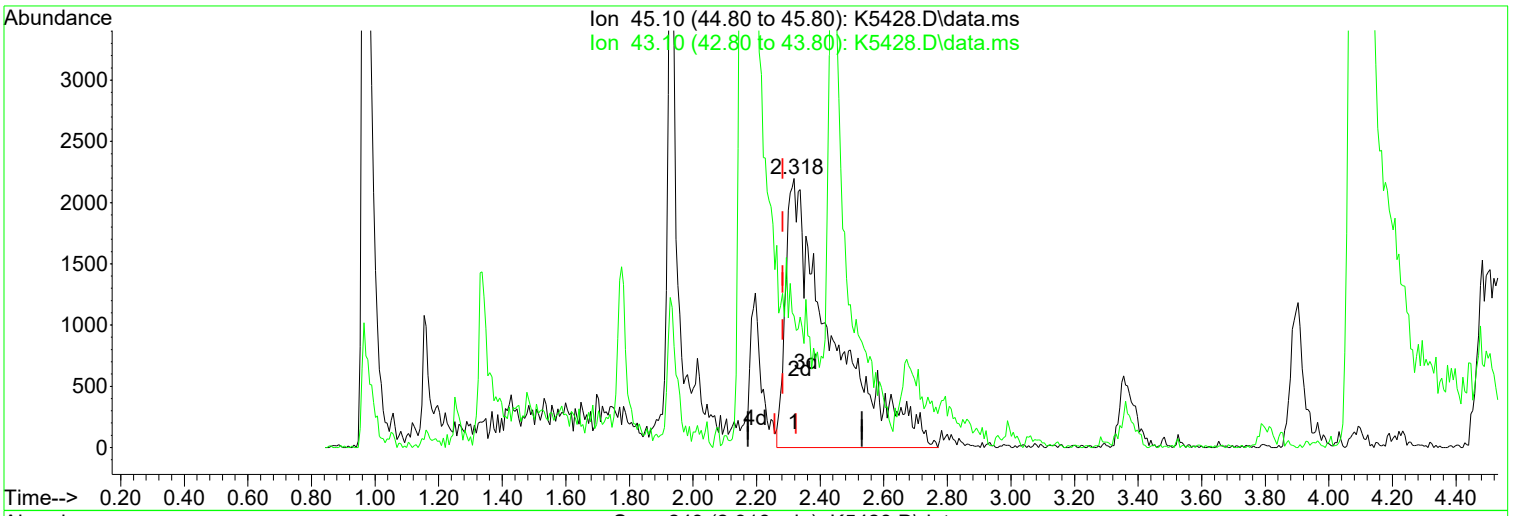
Ion	Ratio	Lower	Upper
105	100		
120	39.4	25.3	65.3
65	4.3	0.0	24.8

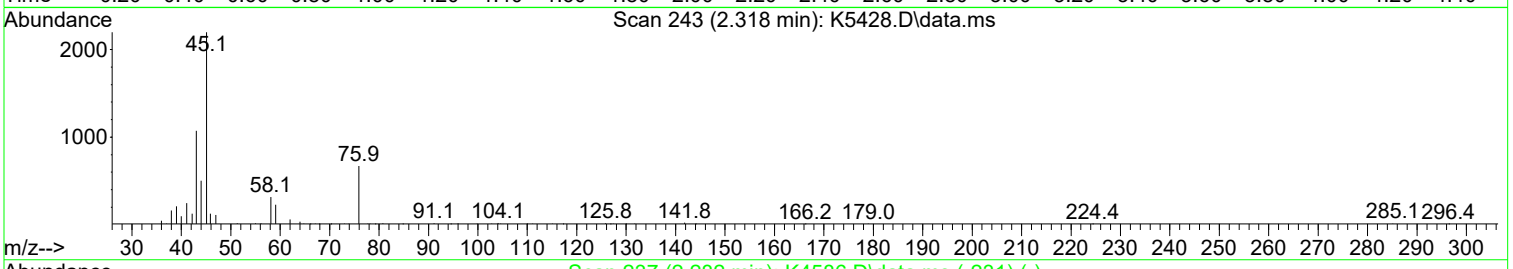


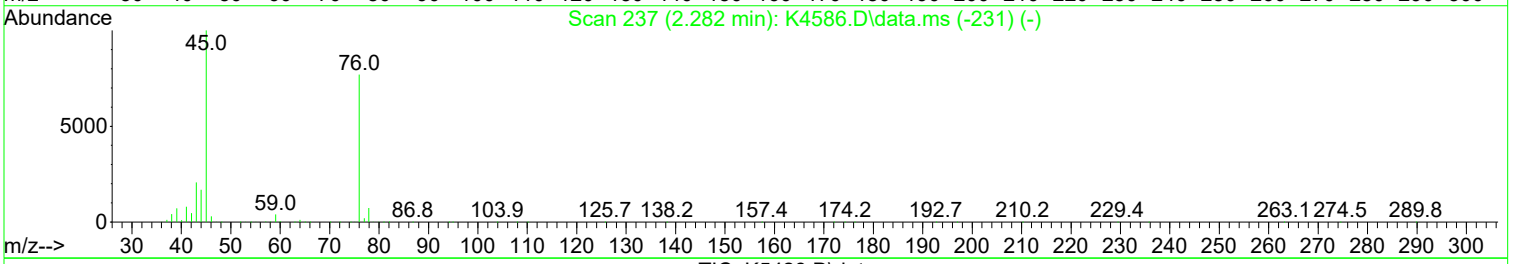
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5428.D
Acq On : 31 Aug 2024 02:02 pm
Operator : F.NAEGLER
Sample : R2408140-013
Misc : CEC 26473 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 01 11:40:07 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5428.D\data.ms

(17) 2-Propanol

2.318min (+ 0.036) 38.27 ug/L m

response 22149

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	21.40	48.88#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

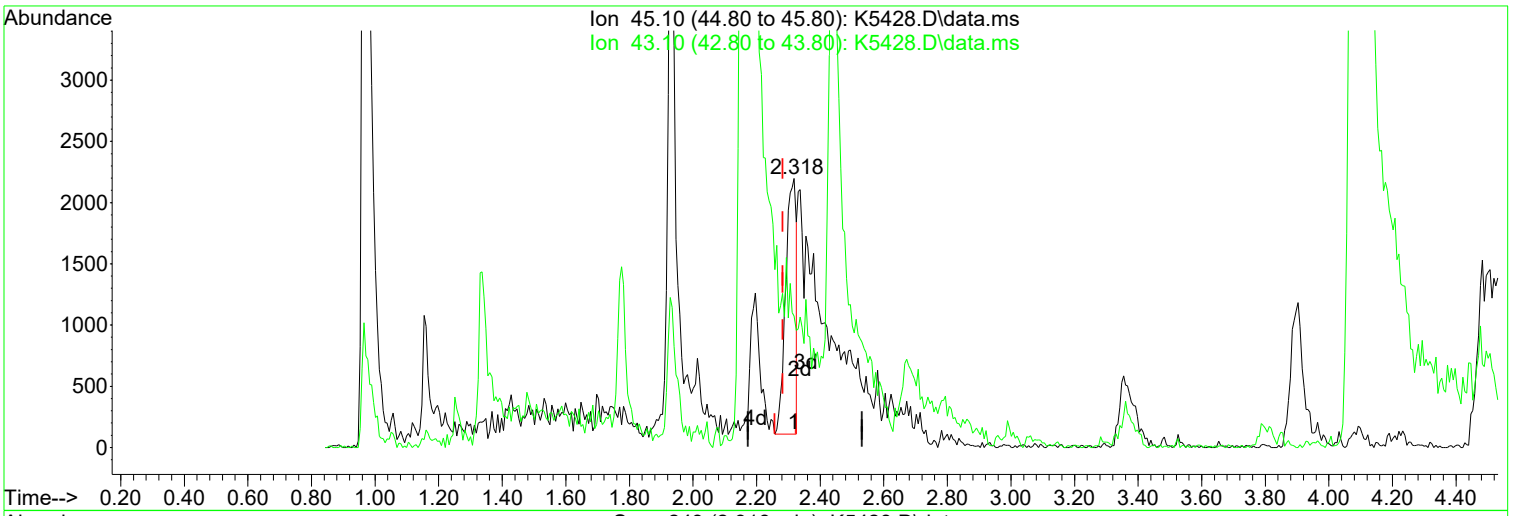
Poor integration.

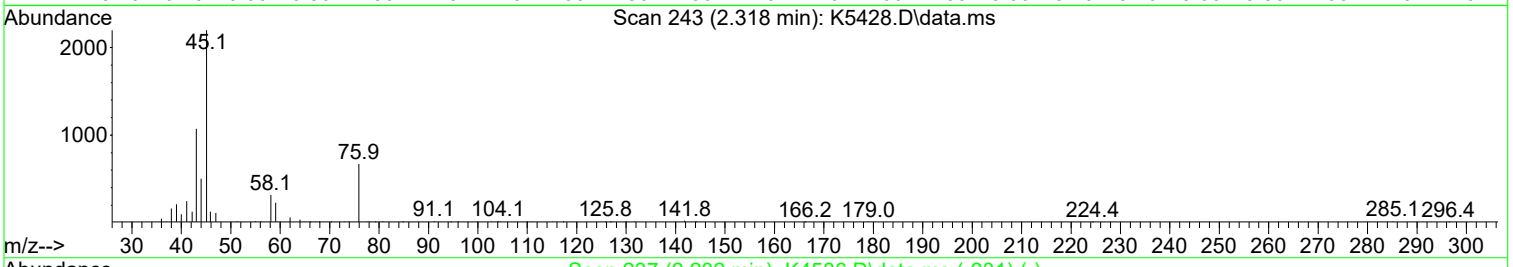
09/02/24

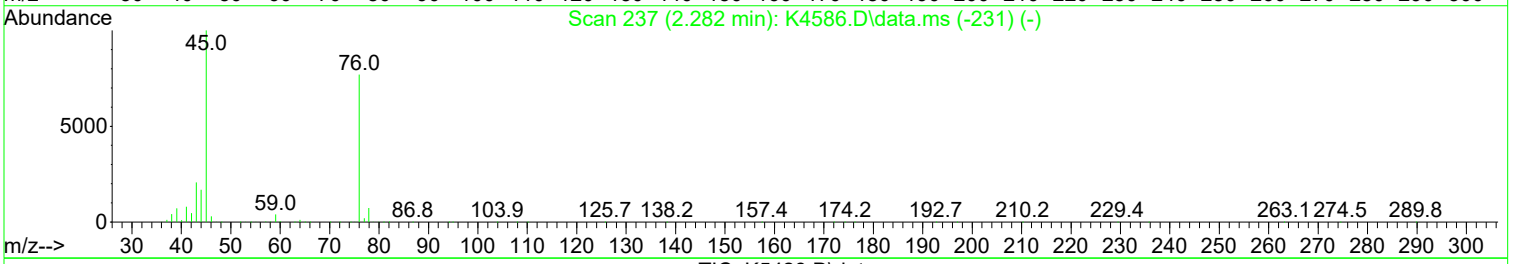
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5428.D
Acq On : 31 Aug 2024 02:02 pm
Operator : F.NAEGLER
Sample : R2408140-013
Misc : CEC 26473 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 01 11:40:07 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5428.D\data.ms

(17) 2-Propanol

2.318min (+ 0.036) 8.19 ug/L

response 4740

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	21.40	48.88#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

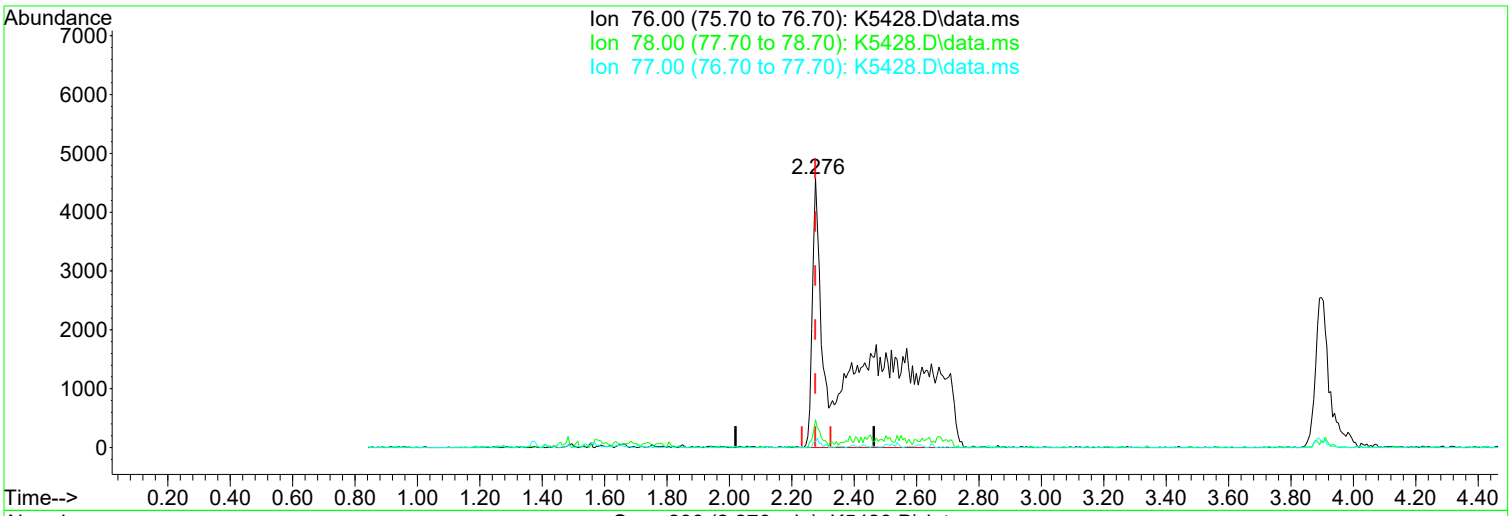
Before

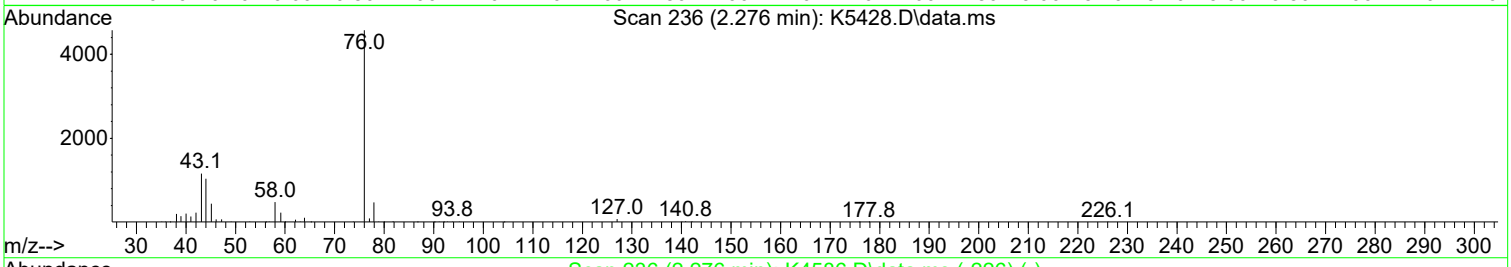
09/02/24

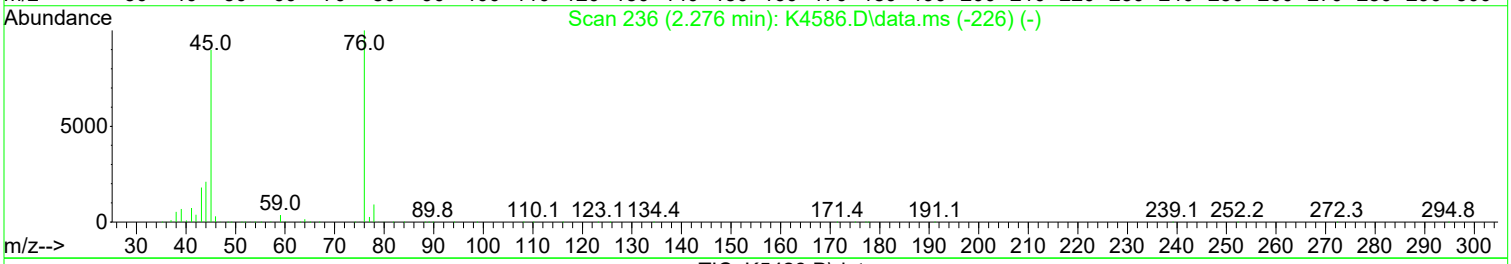
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5428.D
Acq On : 31 Aug 2024 02:02 pm
Operator : F.NAEGLER
Sample : R2408140-013
Misc : CEC 26473 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 01 11:40:07 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5428.D\data.ms

(19) Carbon Disulfide (P)

2.276min (-0.000) 5.18 ug/L m

response 39627

Ion	Exp%	Act%
76.00	100.00	100.00
78.00	9.20	10.32
77.00	2.70	2.12
0.00	0.00	0.00

Manual Integration:

After

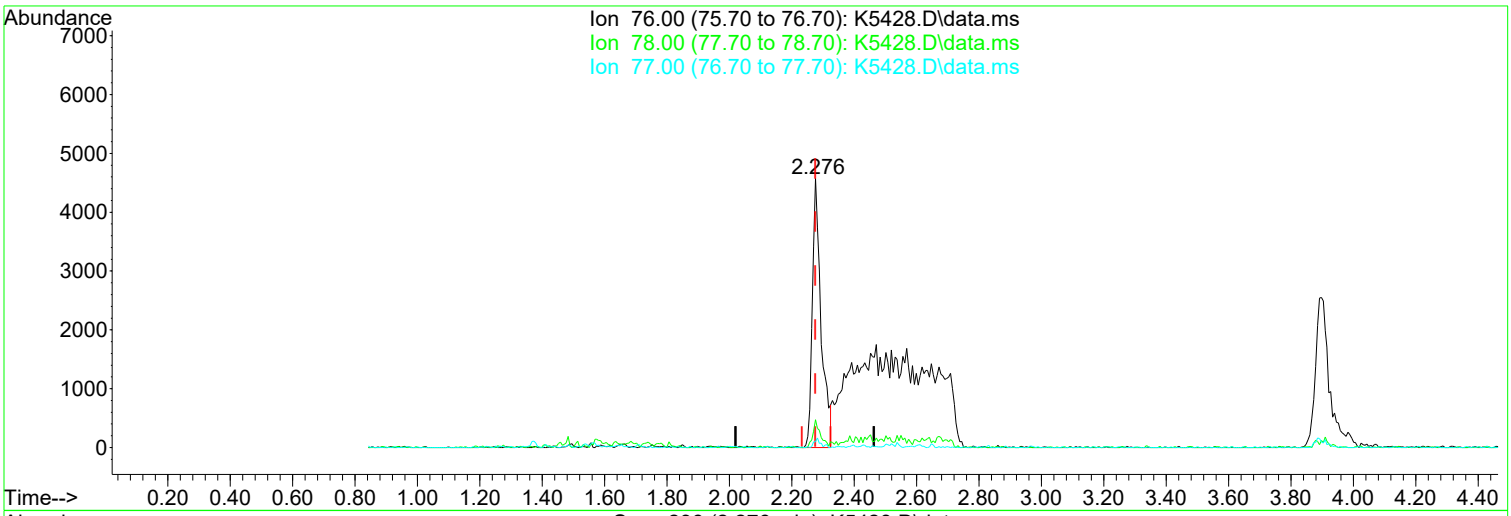
Poor integration.

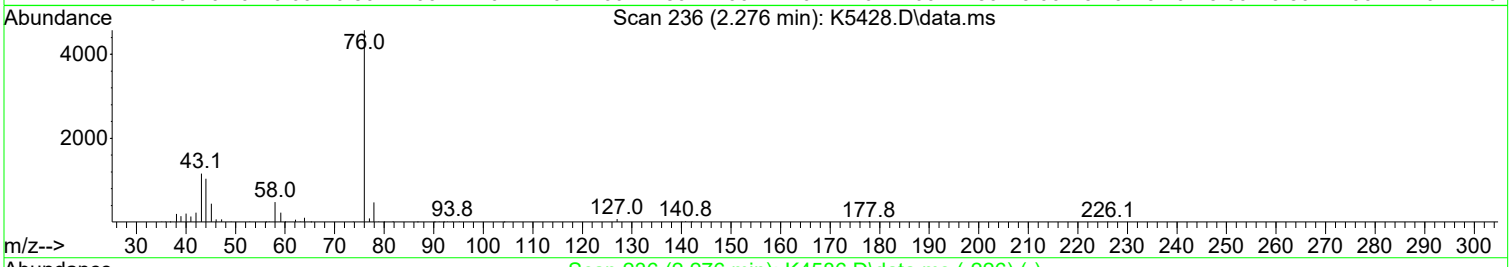
09/02/24

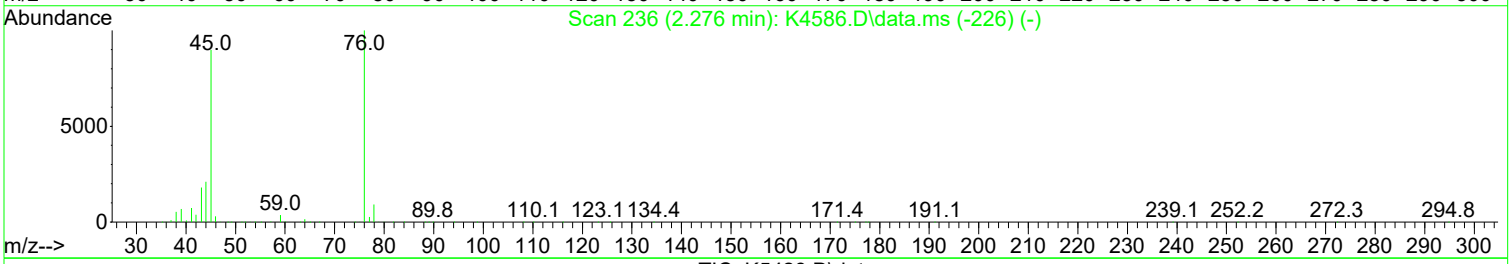
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5428.D
Acq On : 31 Aug 2024 02:02 pm
Operator : F.NAEGLER
Sample : R2408140-013
Misc : CEC 26473 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 01 11:40:07 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5428.D\data.ms

(19) Carbon Disulfide (P)

2.276min (-0.000) 1.17 ug/L

response 8934

Ion	Exp%	Act%
76.00	100.00	100.00
78.00	9.20	10.32
77.00	2.70	2.12
0.00	0.00	0.00

Manual Integration:

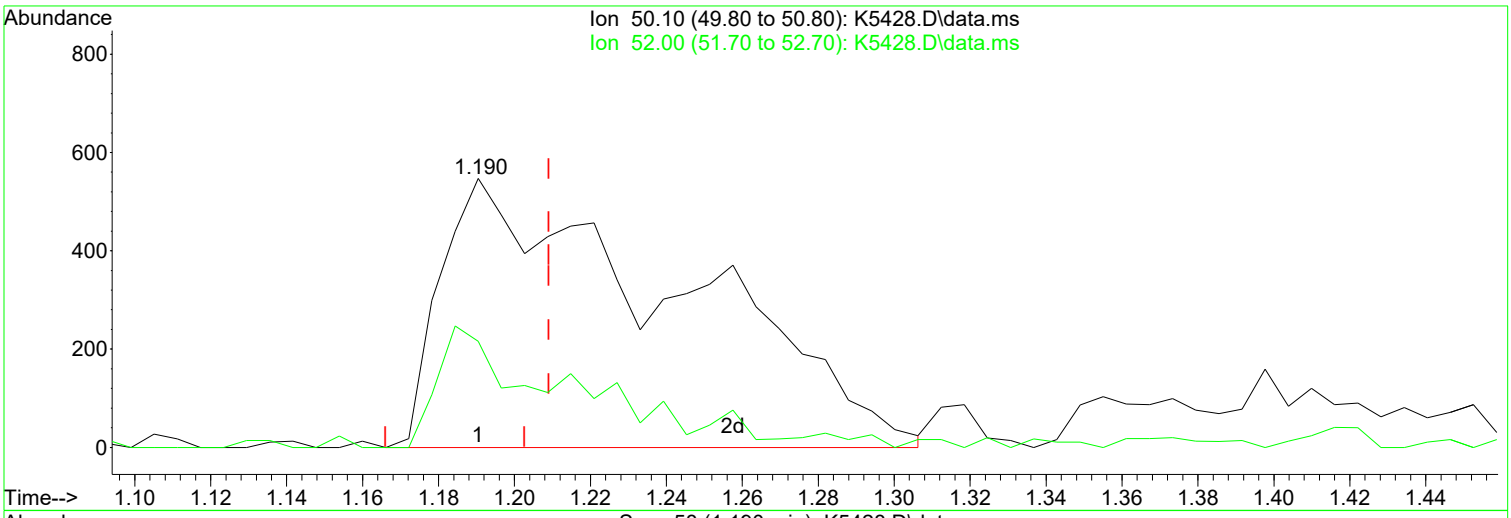
Before

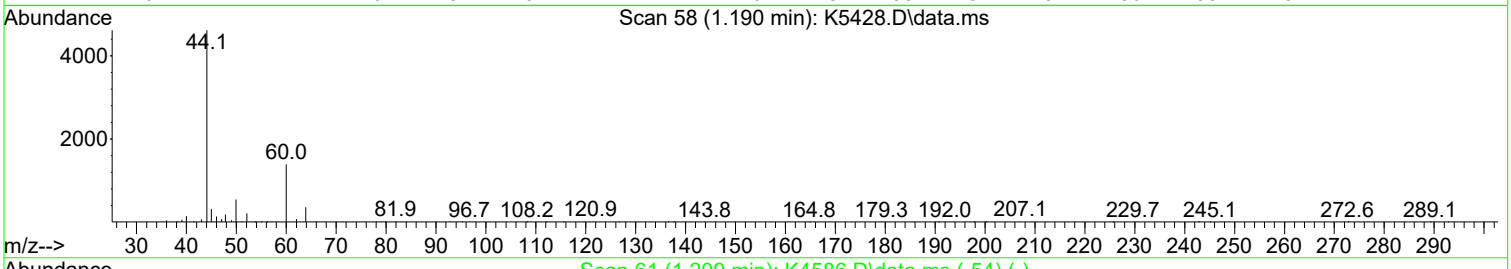
09/02/24

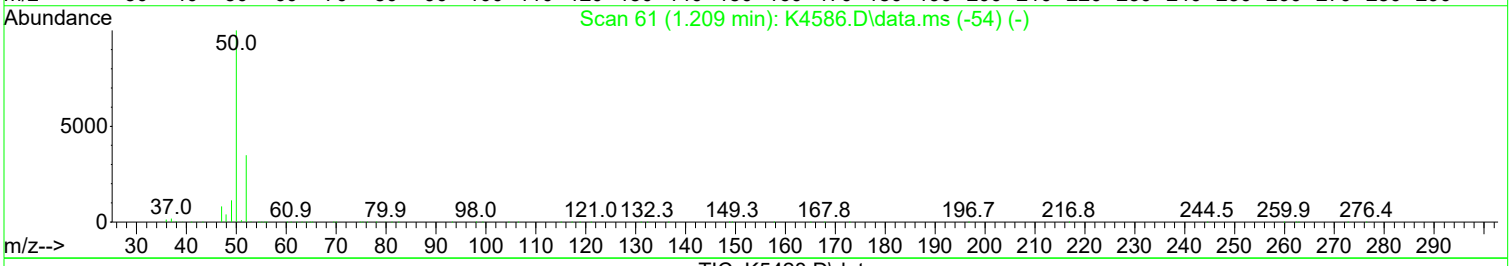
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5428.D
Acq On : 31 Aug 2024 02:02 pm
Operator : F.NAEGLER
Sample : R2408140-013
Misc : CEC 26473 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 01 11:40:07 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5428.D\data.ms

(4) Chloromethane (P)

1.190min (-0.019) 0.47 ug/L m

response 2389

Ion	Exp%	Act%
50.10	100.00	100.00
52.00	34.50	39.49
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

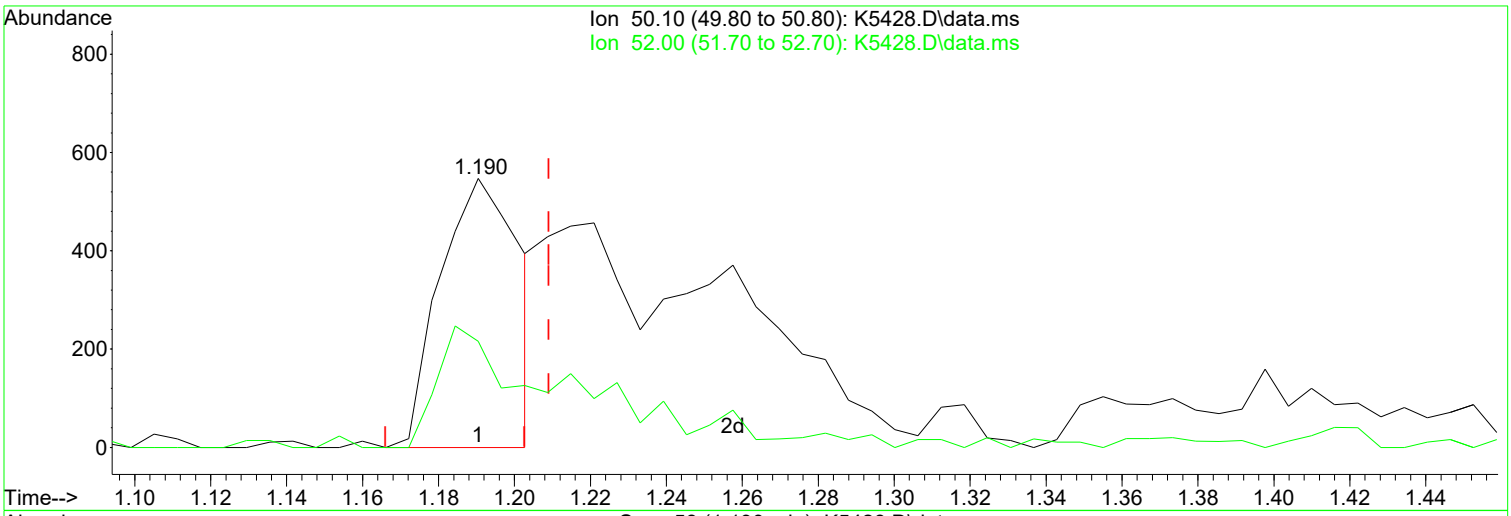
Poor integration.

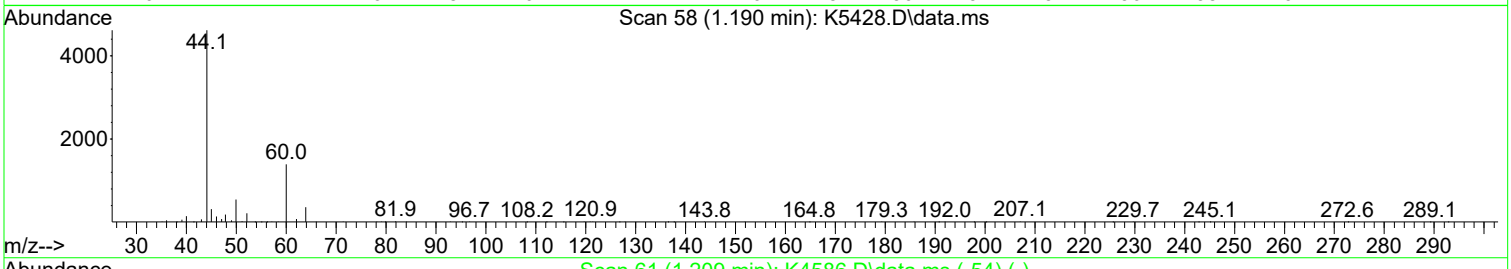
09/02/24

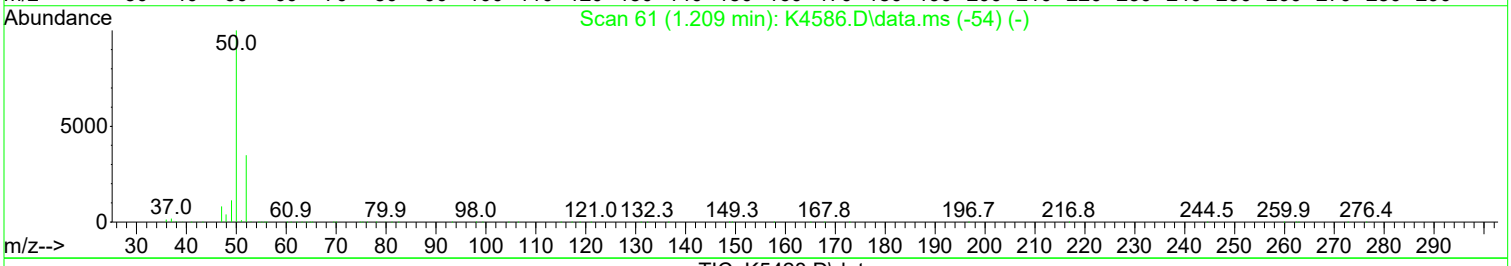
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5428.D
Acq On : 31 Aug 2024 02:02 pm
Operator : F.NAEGLER
Sample : R2408140-013
Misc : CEC 26473 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 01 11:40:07 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5428.D\data.ms

(4) Chloromethane (P)

1.190min (-0.019) 0.16 ug/L

response 794

Ion	Exp%	Act%
50.10	100.00	100.00
52.00	34.50	39.49
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/02/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5428.D
Acq On : 31 Aug 2024 02:02 pm
Operator : F.NAEGLER
Sample : R2408140-013
Misc : CEC 26473 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 01 11:40:07 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

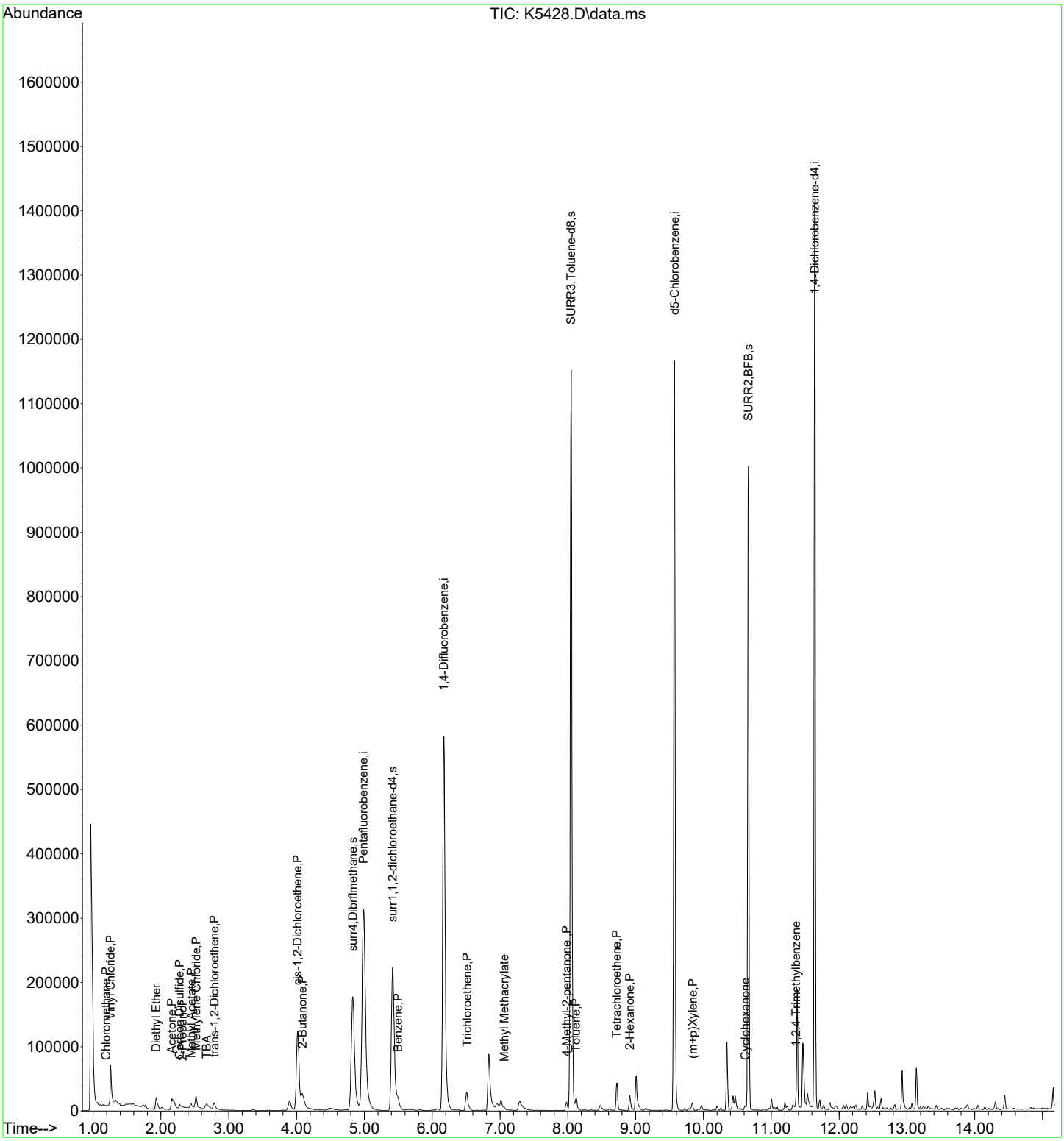
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.989	168	366681	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.171	114	605428	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.573	117	546216	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	257980	50.00	ug/L	# 0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.830	113	193687	51.29	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 102.58%			
47) surr1,1,2-dichloroetha...	5.415	65	256340	49.66	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 99.32%			
64) SURR3,Toluene-d8	8.049	98	727816	52.52	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 105.04%			
69) SURR2,BFB	10.664	95	276946	50.82	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.64%			
Target Compounds						Qvalue
4) Chloromethane	1.190	50	2389m	0.472	ug/L	
5) Vinyl Chloride	1.258	62	62300	12.200	ug/L	98
10) Diethyl Ether	1.928	59	11744	2.956	ug/L	97
16) Acetone	2.160	43	35755	12.182	ug/L	94
17) 2-Propanol	2.318	45	22149m	38.266	ug/L	
19) Carbon Disulfide	2.276	76	39627m	5.179	ug/L	
21) Methyl Acetate	2.446	43	9621	1.879	ug/L	95
22) Methylene Chloride	2.519	84	7929	1.499	ug/L	92
23) TBA	2.672	59	23515	21.919	ug/L	79
26) trans-1,2-Dichloroethene	2.788	96	3664	1.075	ug/L	89
33) cis-1,2-Dichloroethene	4.013	96	78852	19.880	ug/L	87
34) 2-Butanone	4.086	43	55239	15.773	ug/L	99
48) Benzene	5.495	78	12902	0.996	ug/L #	61
53) Trichloroethene	6.513	130	11359	2.958	ug/L	97
58) Methyl Methacrylate	7.061	69	1143	0.349	ug/L	93
63) 4-Methyl-2-pentanone	7.982	43	9650	1.572	ug/L	92
65) Toluene	8.122	91	8713	0.593	ug/L	92
71) Tetrachloroethene	8.720	164	9122	3.387	ug/L	93
72) 2-Hexanone	8.915	43	15821	3.286	ug/L	99
82) (m+p)Xylene	9.841	106	2658	0.420	ug/L	94
88) Cyclohexanone	10.616	55	1646	1.377	ug/L	80
100) 1,2,4-Trimethylbenzene	11.365	105	4227	0.294	ug/L	93

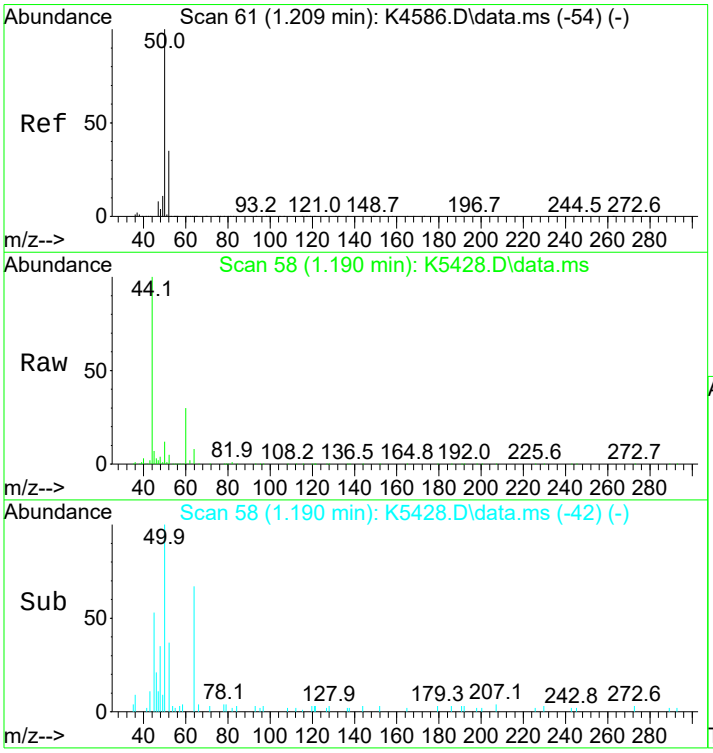
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5428.D
Acq On : 31 Aug 2024 02:02 pm
Operator : F.NAEGLER
Sample : R2408140-013
Misc : CEC 26473 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 01 11:40:07 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

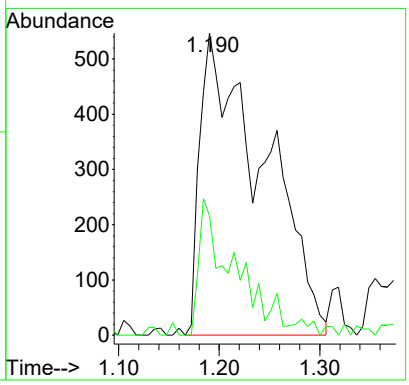


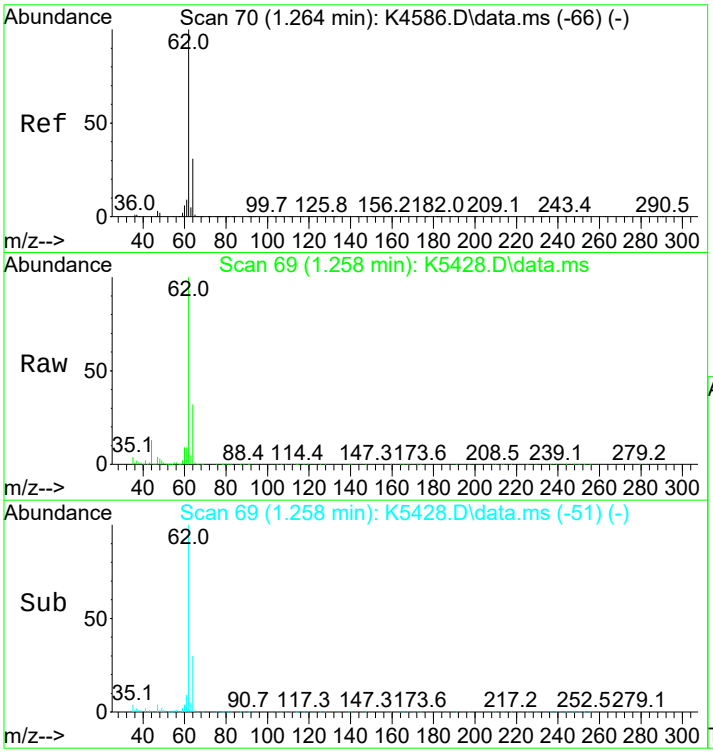


#4
Chloromethane
Concen: 0.47 ug/L m
RT: 1.190 min Scan# 58
Delta R.T. -0.019 min
Lab File: K5428.D
Acq: 31 Aug 2024 02:02 pm

Tgt Ion: 50 Resp: 2389

Ion	Ratio	Lower	Upper
50	100		
52	39.5	14.5	54.5

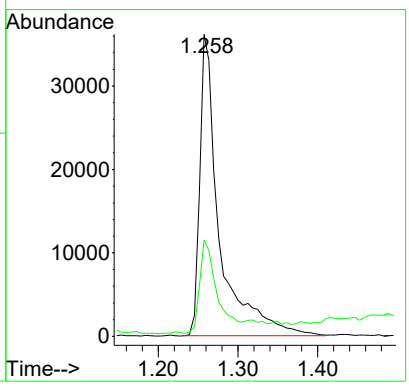


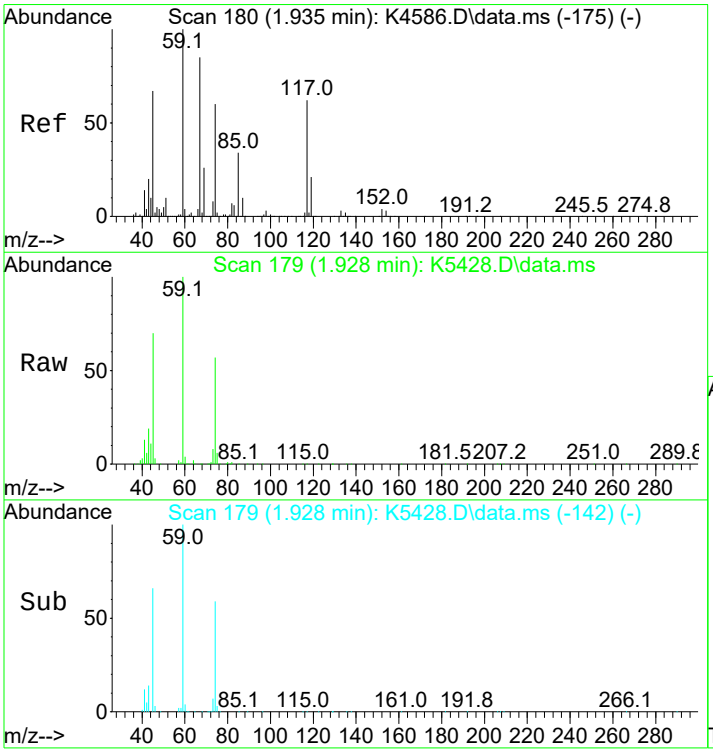


#5
Vinyl Chloride
Concen: 12.20 ug/L
RT: 1.258 min Scan# 69
Delta R.T. -0.006 min
Lab File: K5428.D
Acq: 31 Aug 2024 02:02 pm

Tgt Ion: 62 Resp: 62300

Ion	Ratio	Lower	Upper
62	100		
64	31.9	10.9	50.9

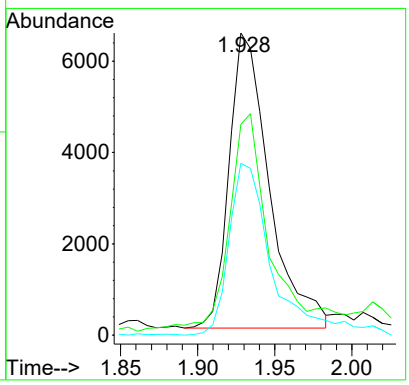


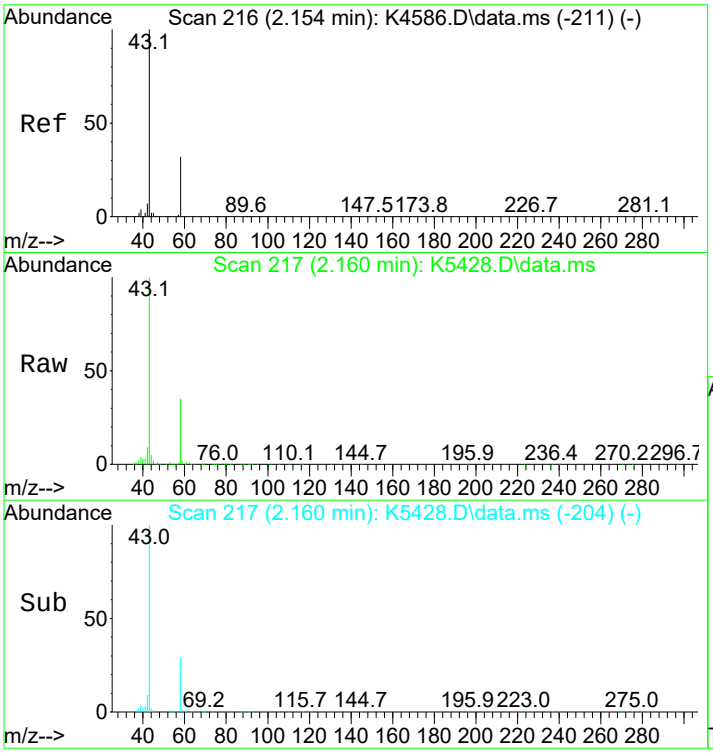


#10
Diethyl Ether
Concen: 2.96 ug/L
RT: 1.928 min Scan# 179
Delta R.T. -0.006 min
Lab File: K5428.D
Acq: 31 Aug 2024 02:02 pm

Tgt Ion: 59 Resp: 11744

Ion	Ratio	Lower	Upper
59	100		
45	69.8	47.3	87.3
74	56.9	39.8	79.8

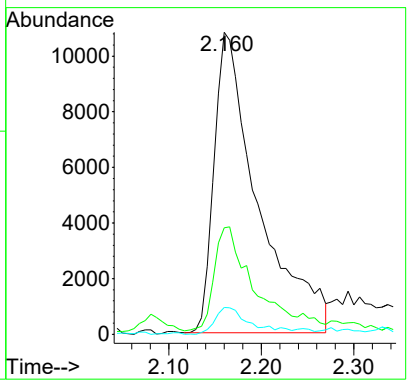


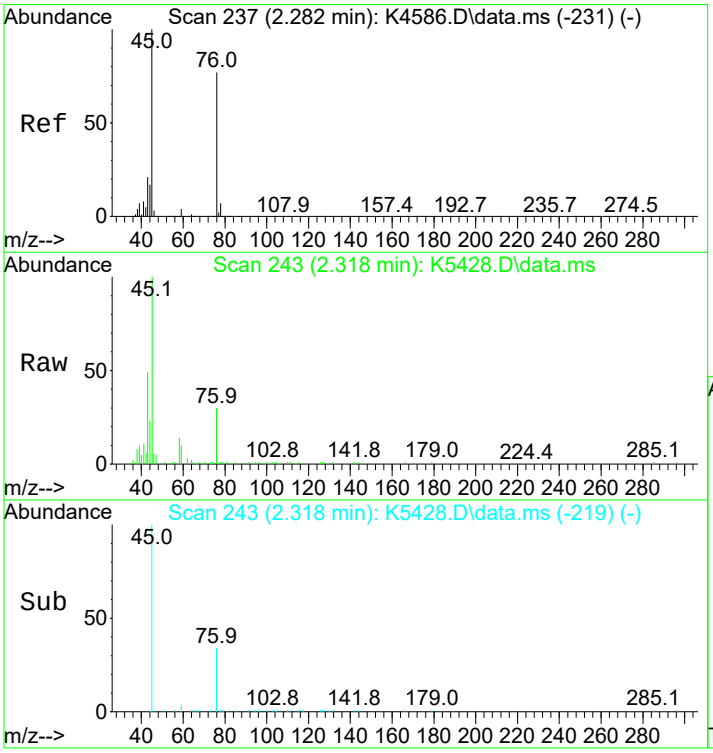


#16
Acetone
Concen: 12.18 ug/L
RT: 2.160 min Scan# 217
Delta R.T. 0.006 min
Lab File: K5428.D
Acq: 31 Aug 2024 02:02 pm

Tgt Ion: 43 Resp: 35755

Ion	Ratio	Lower	Upper
43	100		
58	35.3	11.5	51.5
42	8.9	0.0	27.3

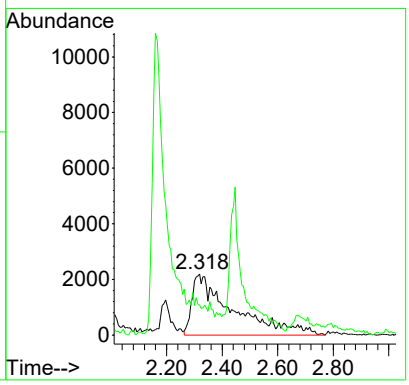


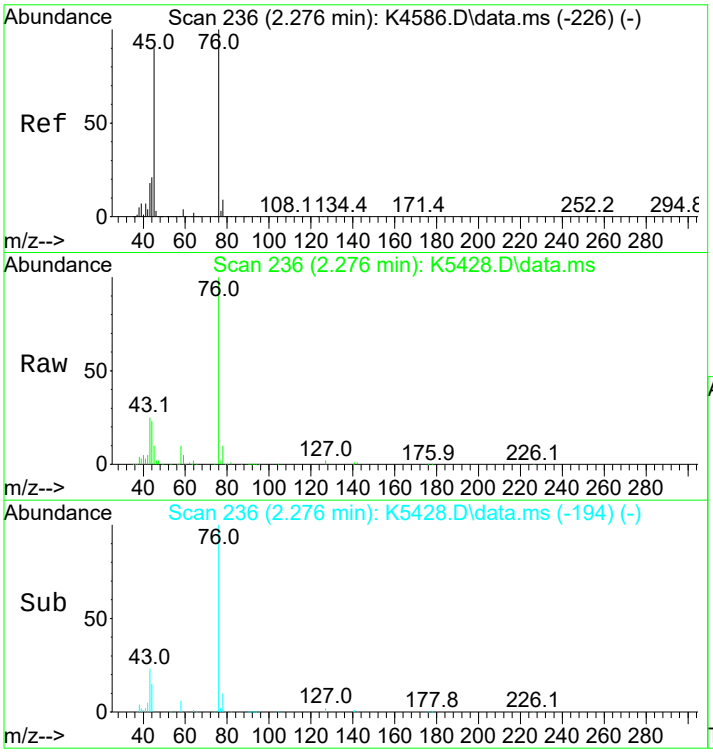


#17
2-Propanol
Concen: 38.27 ug/L m
RT: 2.318 min Scan# 243
Delta R.T. 0.036 min
Lab File: K5428.D
Acq: 31 Aug 2024 02:02 pm

Tgt Ion: 45 Resp: 22149

Ion	Ratio	Lower	Upper
45	100		
43	48.9	1.4	41.4#

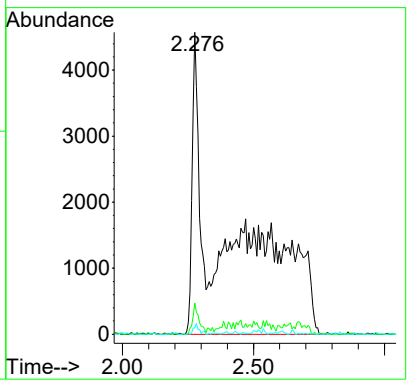


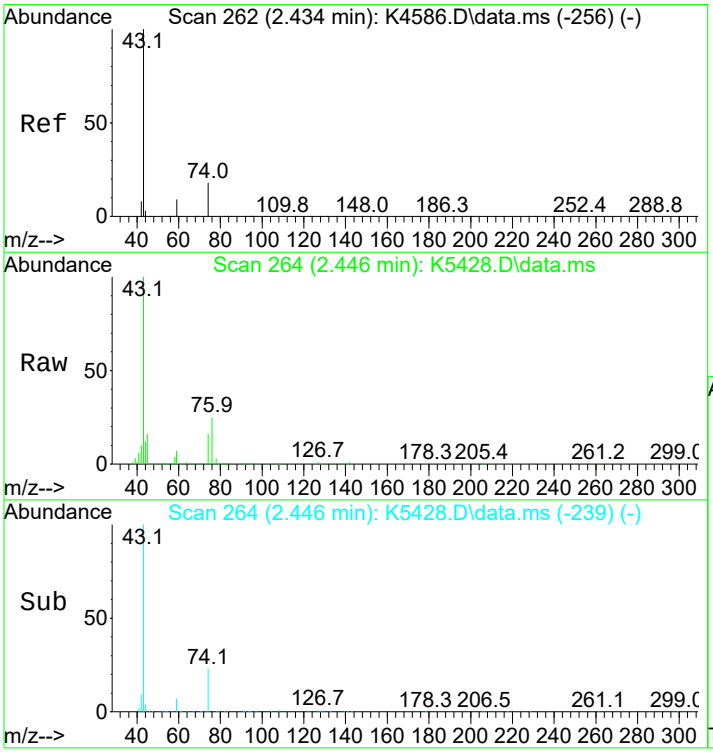


#19
Carbon Disulfide
Concen: 5.18 ug/L m
RT: 2.276 min Scan# 236
Delta R.T. -0.000 min
Lab File: K5428.D
Acq: 31 Aug 2024 02:02 pm

Tgt Ion: 76 Resp: 39627

Ion	Ratio	Lower	Upper
76	100		
78	10.3	0.0	29.2
77	2.1	0.0	22.7

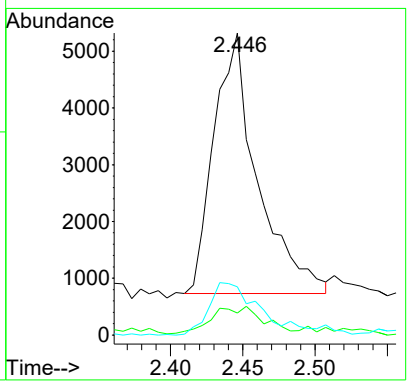


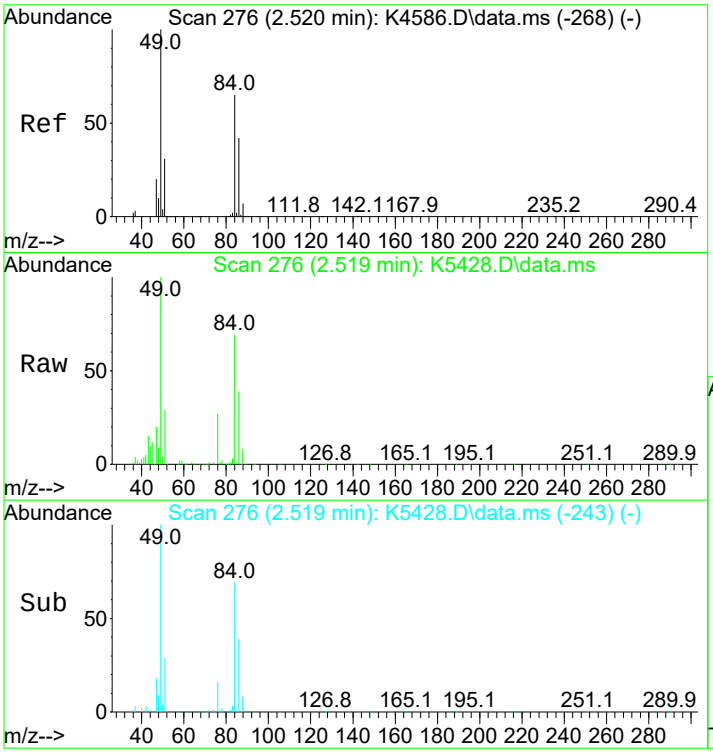


#21
Methyl Acetate
Concen: 1.88 ug/L
RT: 2.446 min Scan# 264
Delta R.T. 0.012 min
Lab File: K5428.D
Acq: 31 Aug 2024 02:02 pm

Tgt Ion: 43 Resp: 9621

Ion	Ratio	Lower	Upper
43	100		
59	7.2	0.0	29.1
74	16.0	0.0	38.1

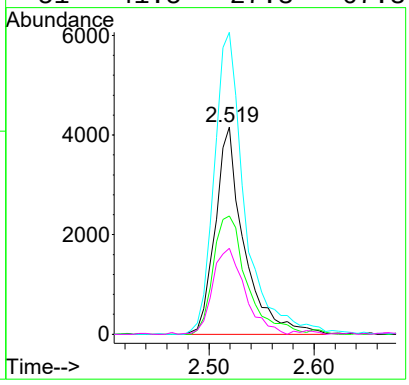


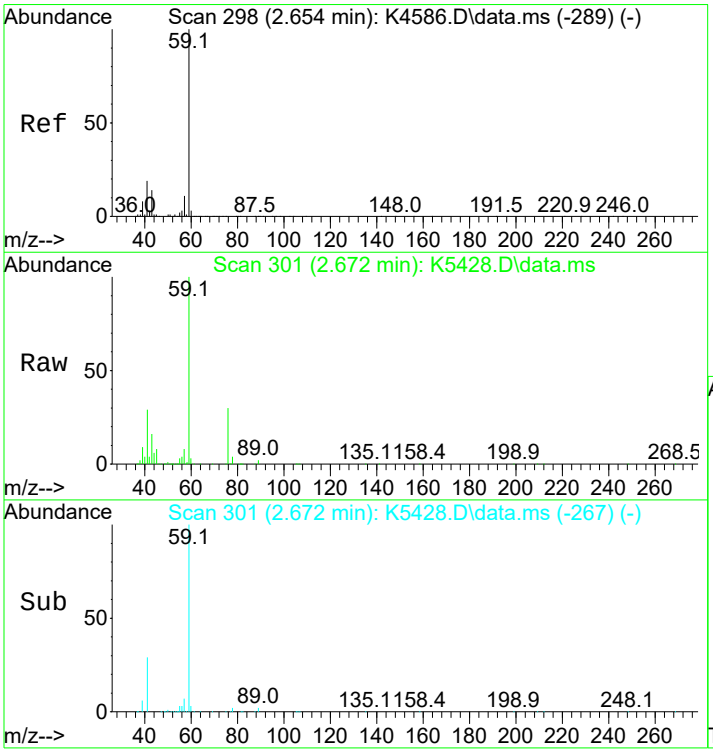


#22
Methylene Chloride
Concen: 1.50 ug/L
RT: 2.519 min Scan# 276
Delta R.T. 0.000 min
Lab File: K5428.D
Acq: 31 Aug 2024 02:02 pm

Tgt Ion: 84 Resp: 7929

Ion	Ratio	Lower	Upper
84	100		
86	57.1	44.7	84.7
49	145.6	134.9	174.9
51	41.5	27.3	67.3

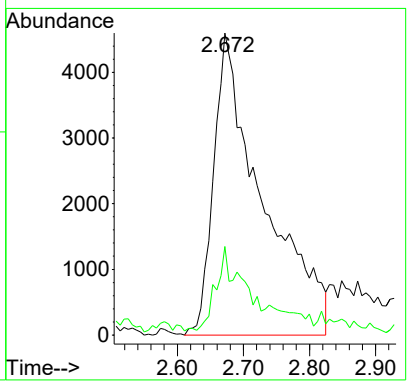


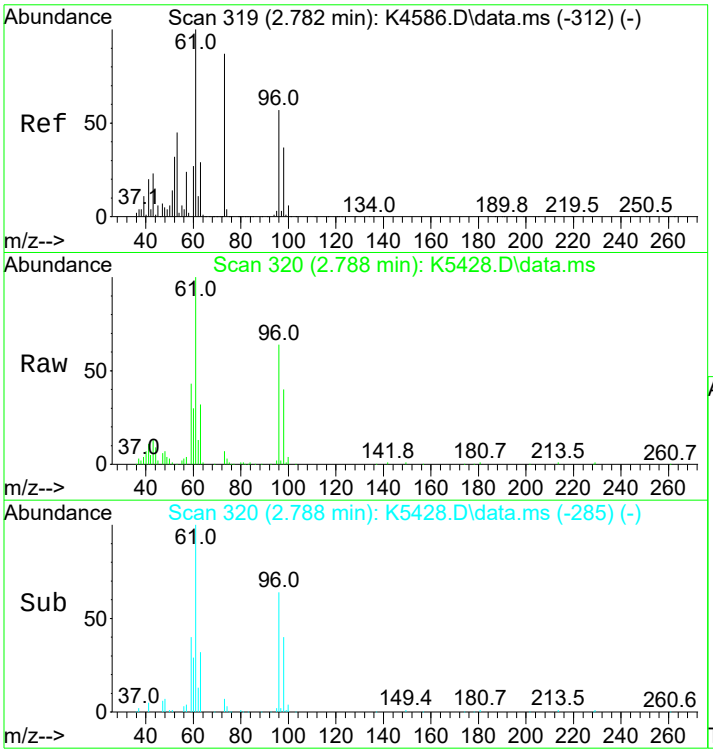


#23
TBA
Concen: 21.92 ug/L
RT: 2.672 min Scan# 301
Delta R.T. 0.018 min
Lab File: K5428.D
Acq: 31 Aug 2024 02:02 pm

Tgt Ion: 59 Resp: 23515

Ion	Ratio	Lower	Upper
59	100		
41	29.3	0.0	39.7

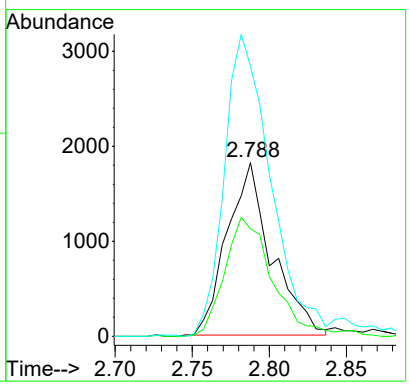


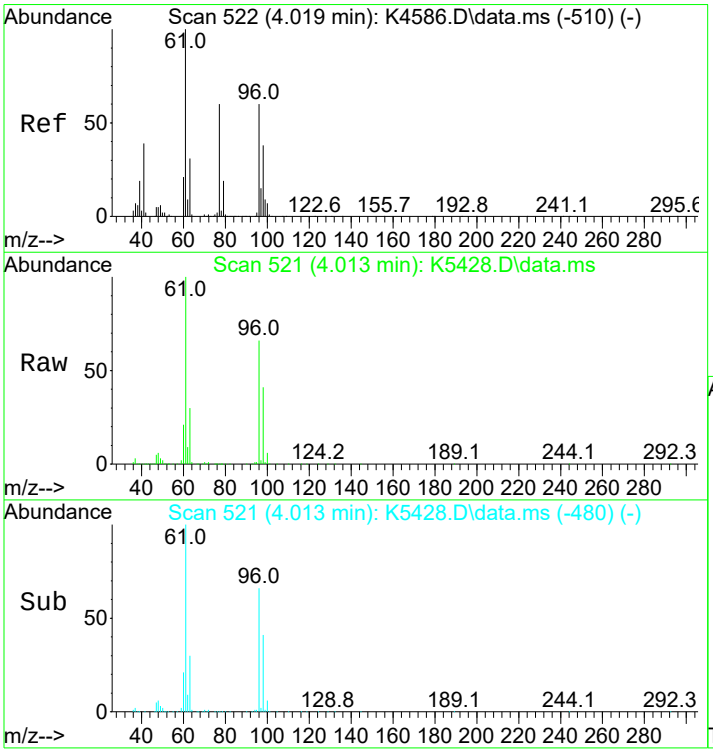


#26
trans-1,2-Dichloroethene
Concen: 1.07 ug/L
RT: 2.788 min Scan# 320
Delta R.T. 0.006 min
Lab File: K5428.D
Acq: 31 Aug 2024 02:02 pm

Tgt Ion: 96 Resp: 3664

Ion	Ratio	Lower	Upper
96	100		
98	61.9	45.1	85.1
61	155.3	154.0	194.0

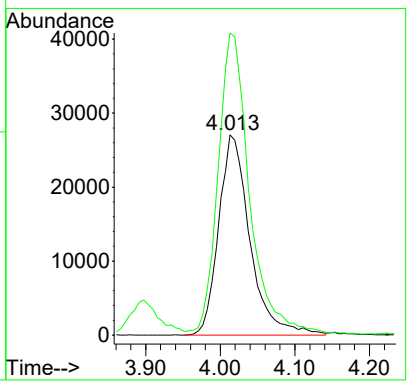


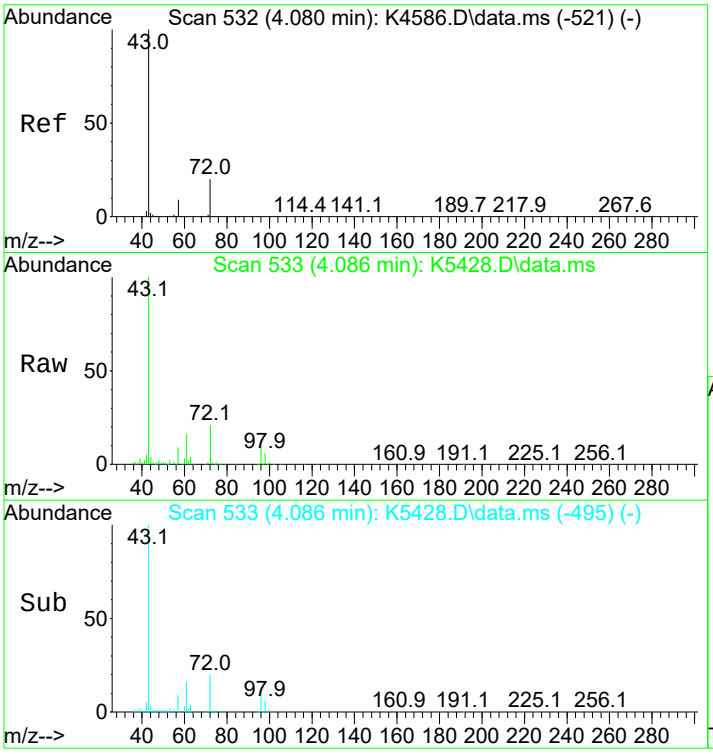


#33
cis-1,2-Dichloroethene
Concen: 19.88 ug/L
RT: 4.013 min Scan# 521
Delta R.T. -0.006 min
Lab File: K5428.D
Acq: 31 Aug 2024 02:02 pm

Tgt Ion: 96 Resp: 78852

Ion	Ratio	Lower	Upper
96	100		
61	150.8	147.9	187.9

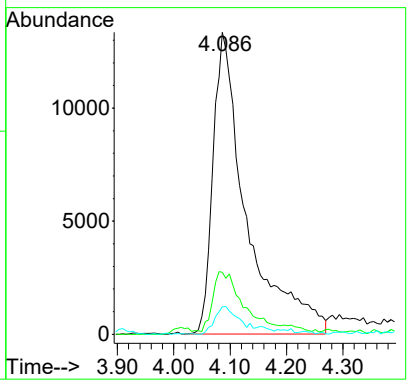


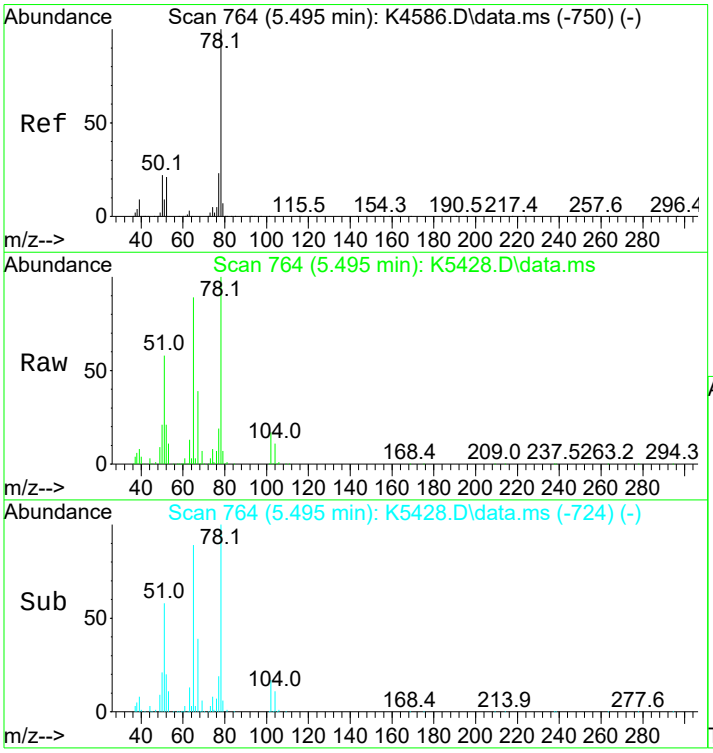


#34
2-Butanone
Concen: 15.77 ug/L
RT: 4.086 min Scan# 533
Delta R.T. 0.006 min
Lab File: K5428.D
Acq: 31 Aug 2024 02:02 pm

Tgt Ion: 43 Resp: 55239

Ion	Ratio	Lower	Upper
43	100		
72	20.5	1.2	41.2
57	9.1	0.0	29.2

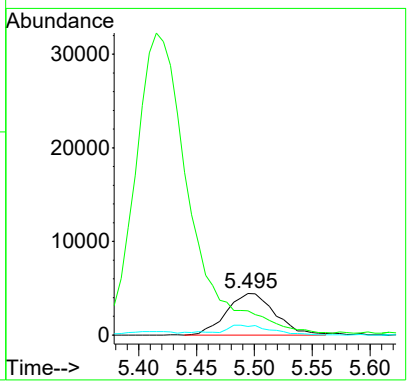


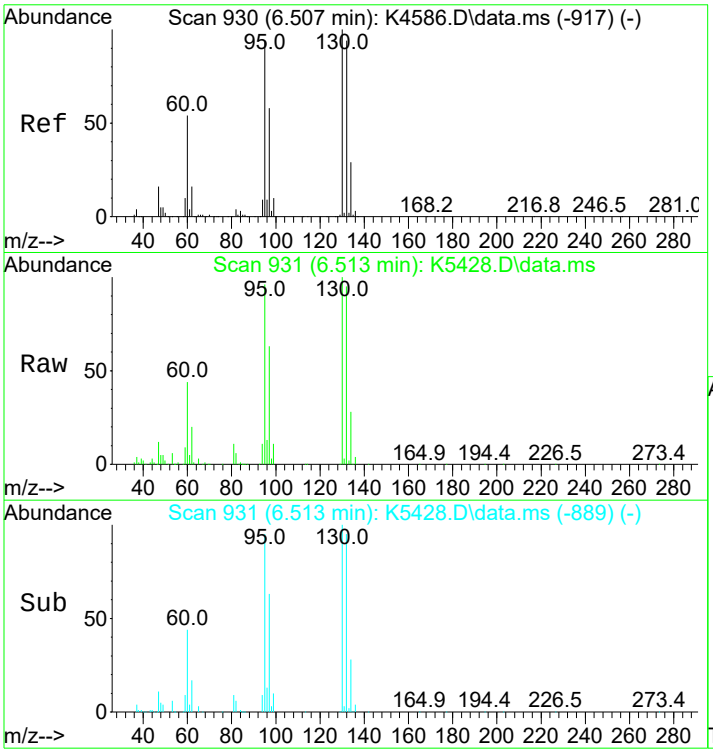


#48
Benzene
Concen: 1.00 ug/L
RT: 5.495 min Scan# 764
Delta R.T. -0.000 min
Lab File: K5428.D
Acq: 31 Aug 2024 02:02 pm

Tgt Ion: 78 Resp: 12902

Ion	Ratio	Lower	Upper
78	100		
51	58.5	3.1	43.1#
52	20.6	1.2	41.2

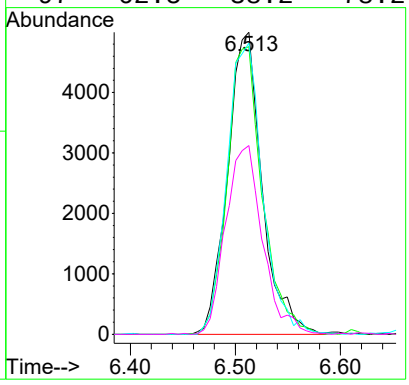


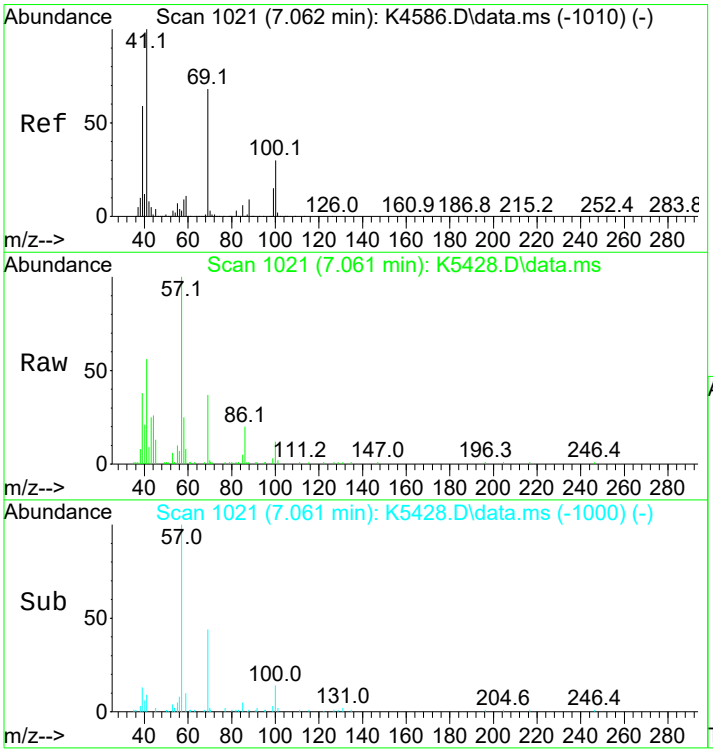


#53
Trichloroethene
Concen: 2.96 ug/L
RT: 6.513 min Scan# 931
Delta R.T. 0.006 min
Lab File: K5428.D
Acq: 31 Aug 2024 02:02 pm

Tgt Ion:130 Resp: 11359

Ion	Ratio	Lower	Upper
130	100		
132	95.3	74.0	114.0
95	96.4	74.1	114.1
97	62.5	38.2	78.2

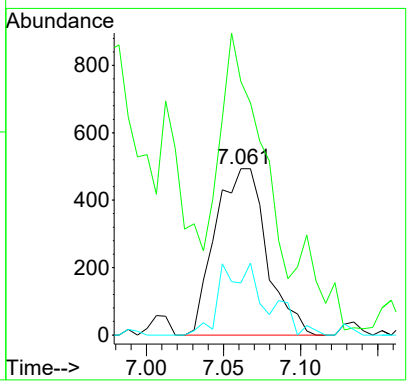


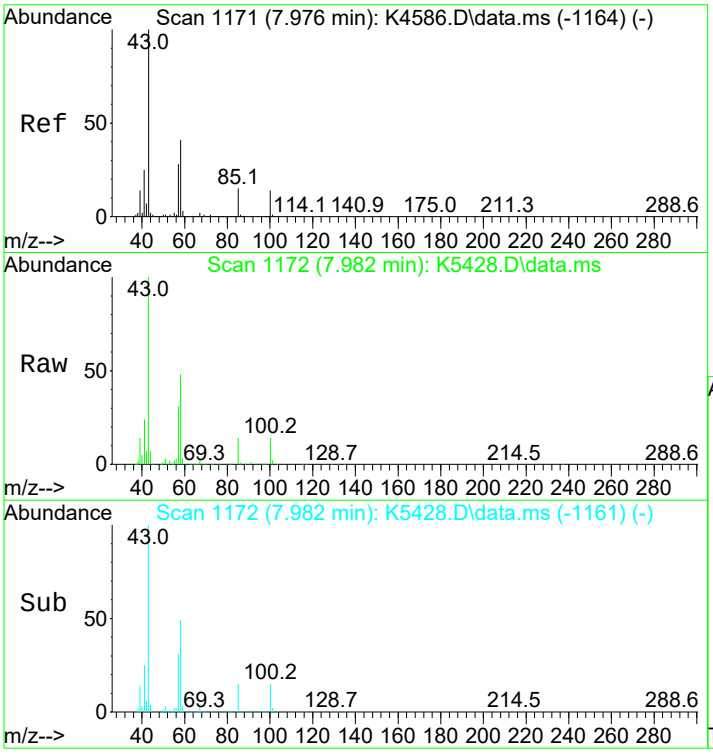


#58
Methyl Methacrylate
Concen: 0.35 ug/L
RT: 7.061 min Scan# 1021
Delta R.T. -0.000 min
Lab File: K5428.D
Acq: 31 Aug 2024 02:02 pm

Tgt Ion: 69 Resp: 1143

Ion	Ratio	Lower	Upper
69	100		
41	152.5	128.2	168.2
100	31.2	24.5	64.5

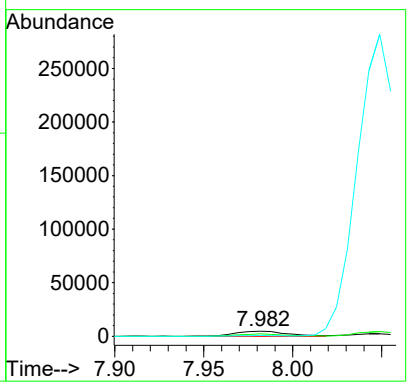


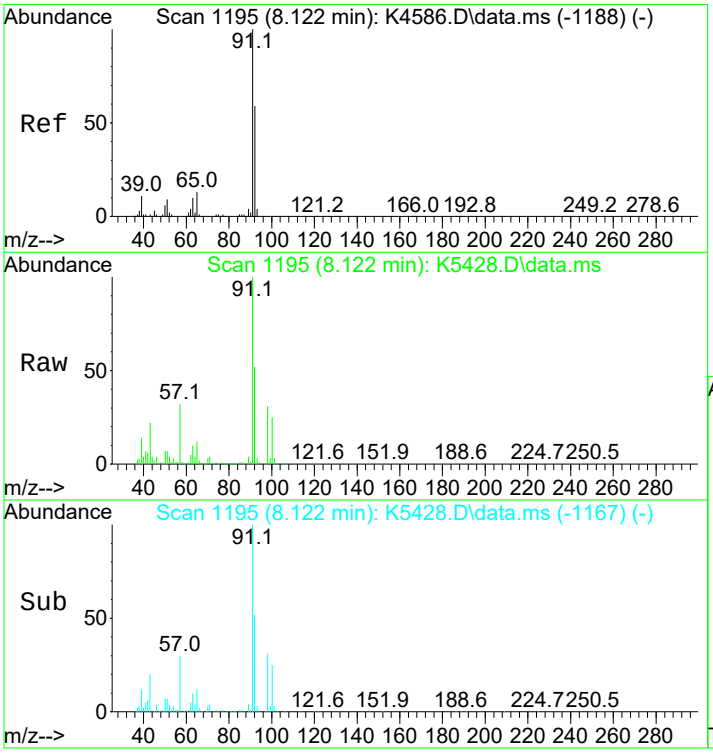


#63
4-Methyl-2-pentanone
Concen: 1.57 ug/L
RT: 7.982 min Scan# 1172
Delta R.T. 0.006 min
Lab File: K5428.D
Acq: 31 Aug 2024 02:02 pm

Tgt Ion: 43 Resp: 9650

Ion	Ratio	Lower	Upper
43	100		
58	48.0	21.3	61.3
100	14.3	0.0	33.7

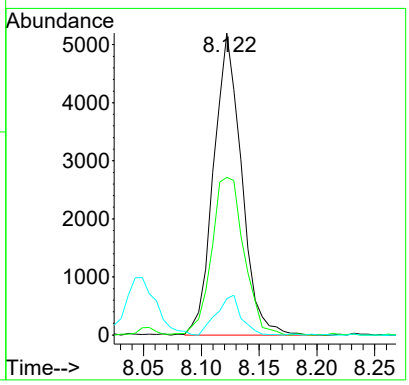


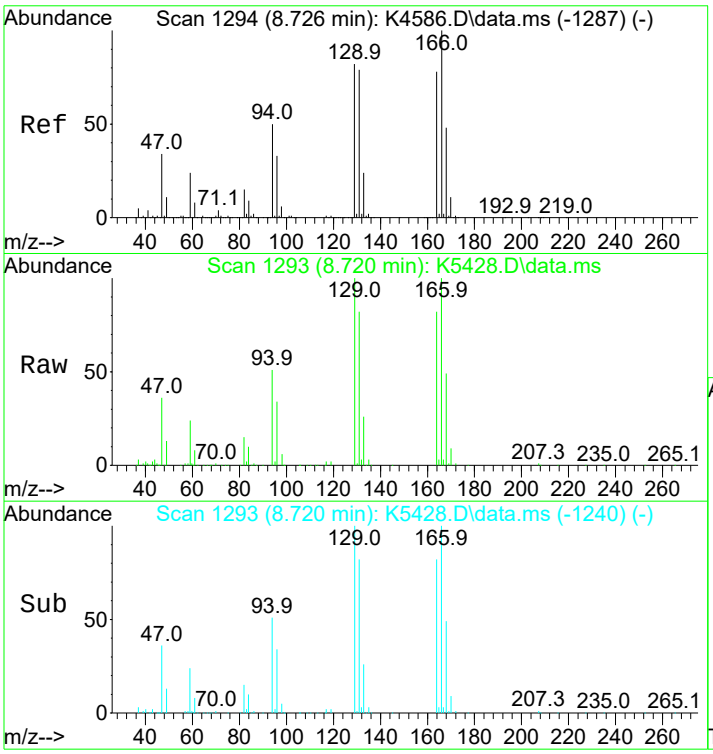


#65
Toluene
Concen: 0.59 ug/L
RT: 8.122 min Scan# 1195
Delta R.T. -0.000 min
Lab File: K5428.D
Acq: 31 Aug 2024 02:02 pm

Tgt Ion: 91 Resp: 8713

Ion	Ratio	Lower	Upper
91	100		
92	52.2	39.0	79.0
65	12.0	0.0	32.8

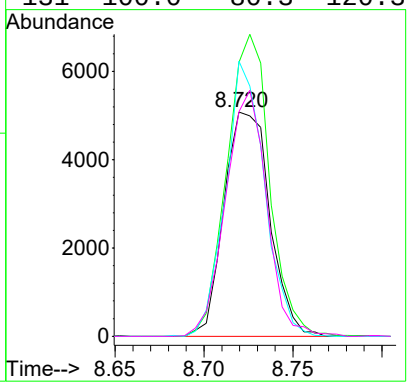


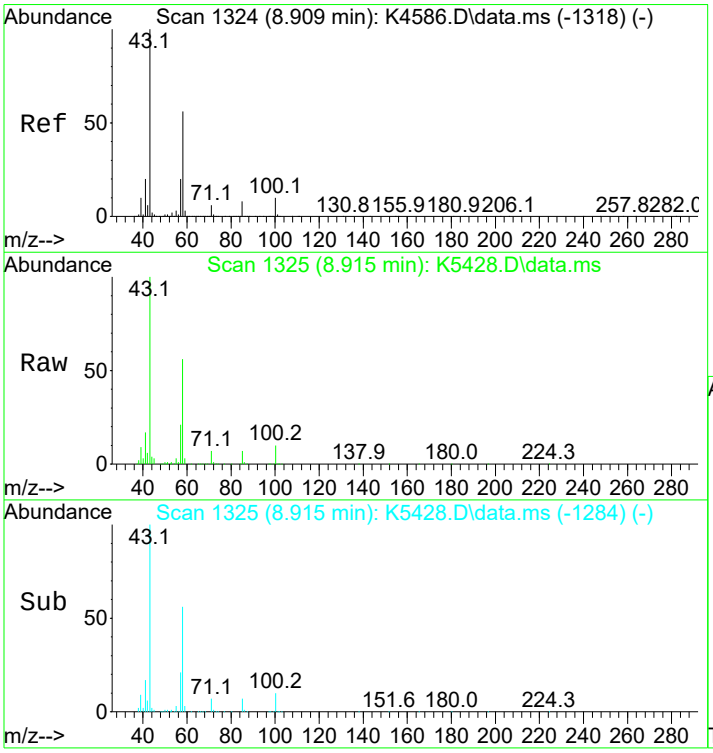


#71
Tetrachloroethene
Concen: 3.39 ug/L
RT: 8.720 min Scan# 1293
Delta R.T. -0.006 min
Lab File: K5428.D
Acq: 31 Aug 2024 02:02 pm

Tgt Ion:164 Resp: 9122

Ion	Ratio	Lower	Upper
164	100		
166	122.1	107.5	147.5
129	122.6	84.9	124.9
131	100.0	80.3	120.3

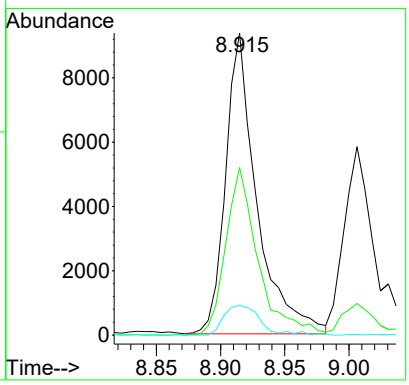


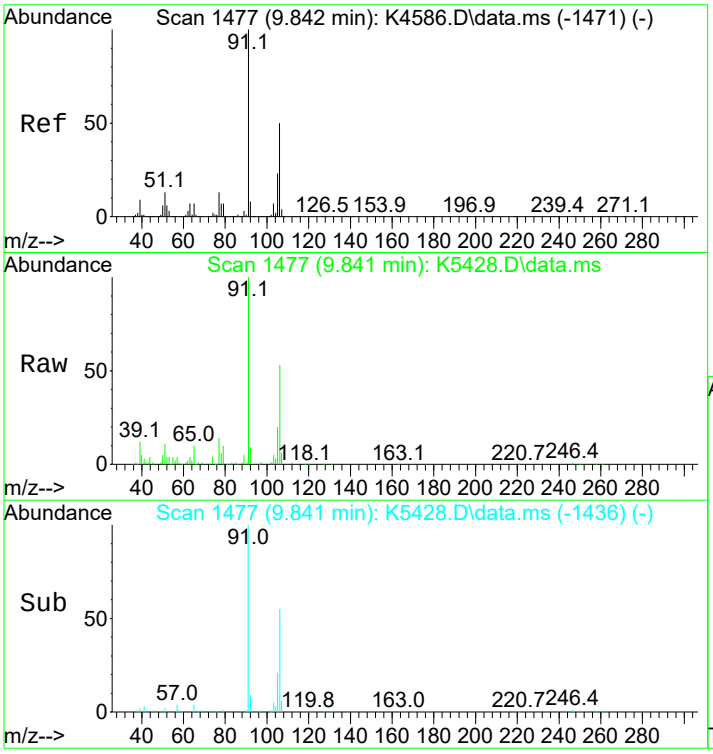


#72
2-Hexanone
Concen: 3.29 ug/L
RT: 8.915 min Scan# 1325
Delta R.T. 0.006 min
Lab File: K5428.D
Acq: 31 Aug 2024 02:02 pm

Tgt Ion: 43 Resp: 15821

Ion	Ratio	Lower	Upper
43	100		
58	55.5	35.9	75.9
100	9.9	0.0	30.1

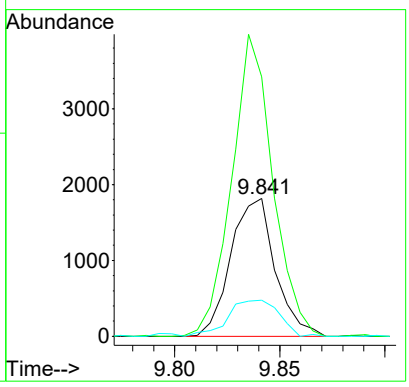


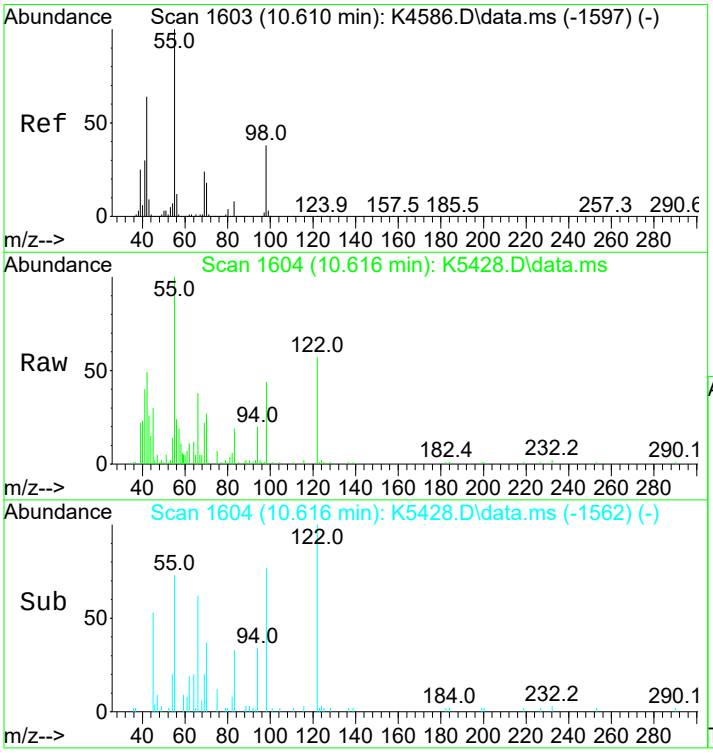


#82
(m+p)Xylene
Concen: 0.42 ug/L
RT: 9.841 min Scan# 1477
Delta R.T. -0.000 min
Lab File: K5428.D
Acq: 31 Aug 2024 02:02 pm

Tgt Ion:106 Resp: 2658

Ion	Ratio	Lower	Upper
106	100		
91	188.2	178.7	218.7
77	26.3	5.9	45.9

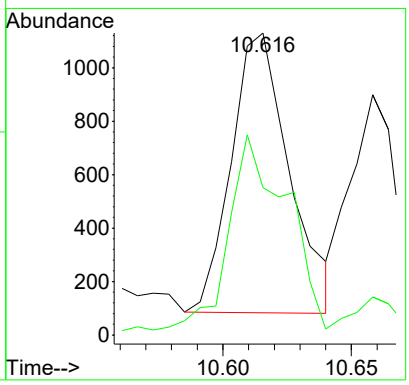


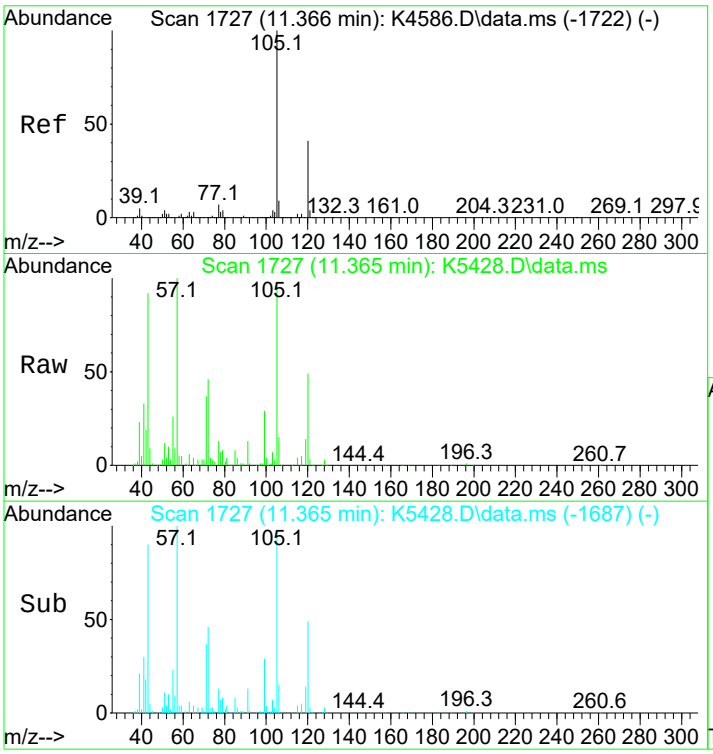


#88
Cyclohexanone
Concen: 1.38 ug/L
RT: 10.616 min Scan# 1604
Delta R.T. 0.006 min
Lab File: K5428.D
Acq: 31 Aug 2024 02:02 pm

Tgt Ion: 55 Resp: 1646

Ion	Ratio	Lower	Upper
55	100		
42	48.8	44.5	84.5

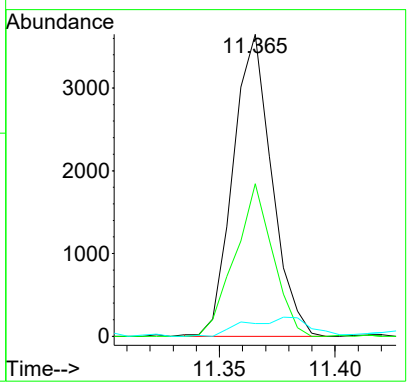




#100
1,2,4-Trimethylbenzene
Concen: 0.29 ug/L
RT: 11.365 min Scan# 1727
Delta R.T. -0.000 min
Lab File: K5428.D
Acq: 31 Aug 2024 02:02 pm

Tgt Ion:105 Resp: 4227

Ion	Ratio	Lower	Upper
105	100		
120	50.5	25.3	65.3
65	4.7	0.0	24.8



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5399.D
Acq On : 30 Aug 2024 12:45 pm
Operator : F.NAEGLER
Sample : R2408140-014
Misc : CEC 26473 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 30 14:38:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

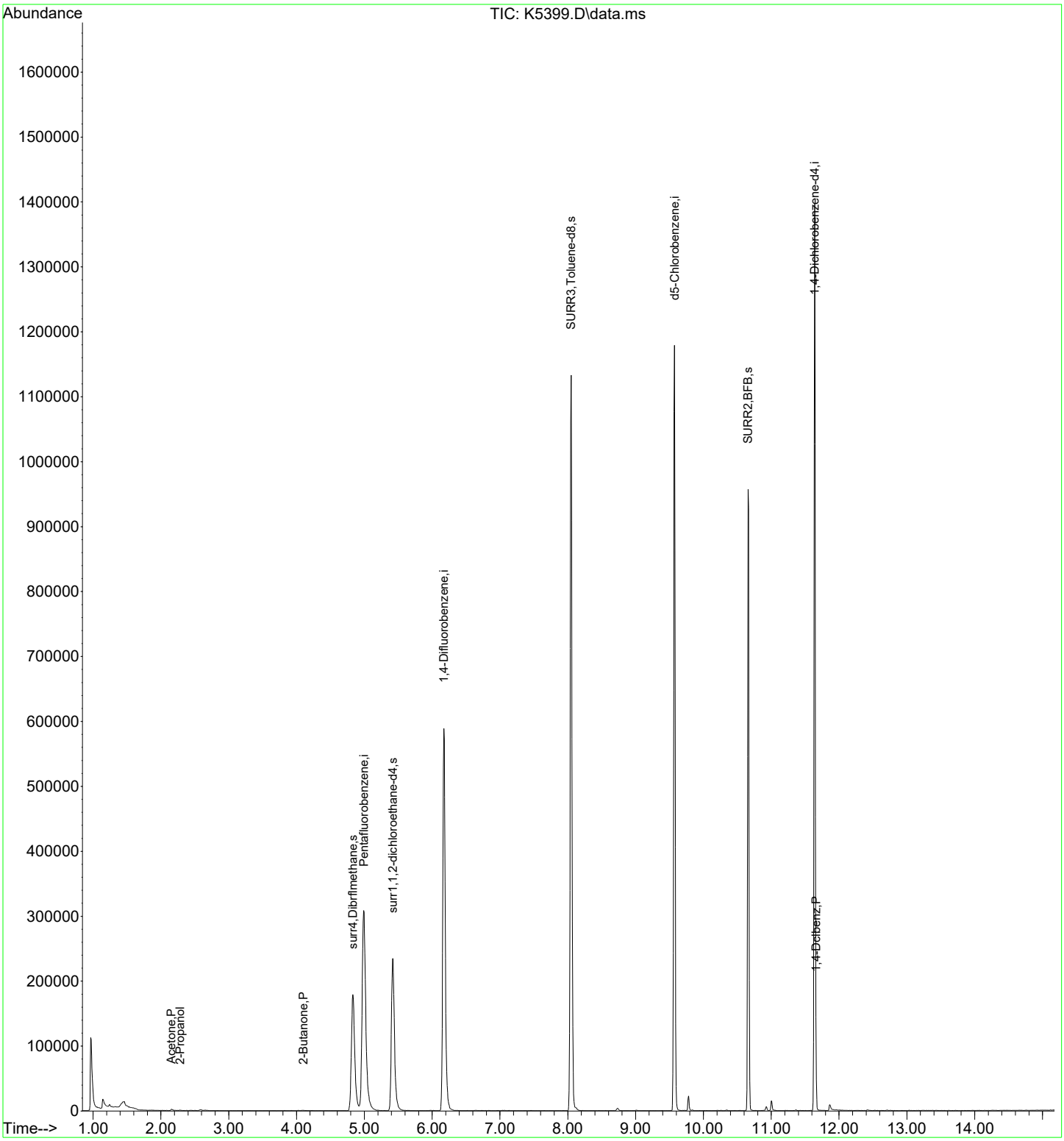
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.995	168	373994	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.172	114	619847	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.574	117	543968	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	251575	50.00	ug/L	# 0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.830	113	193203	49.97	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 99.94%			
47) surr1,1,2-dichloroetha...	5.422	65	271467	51.37	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.74%			
64) SURR3,Toluene-d8	8.049	98	725109	51.10	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.20%			
69) SURR2,BFB	10.659	95	269374	48.29	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 96.58%			
Target Compounds						Qvalue
16) Acetone	2.154	43	2729	0.912	ug/L	88
17) 2-Propanol	2.282	45	665	1.126	ug/L	84
34) 2-Butanone	4.099	43	1050	0.294	ug/L	73
105) 1,4-Dclbenz	11.659	146	11186	1.441	ug/L	88

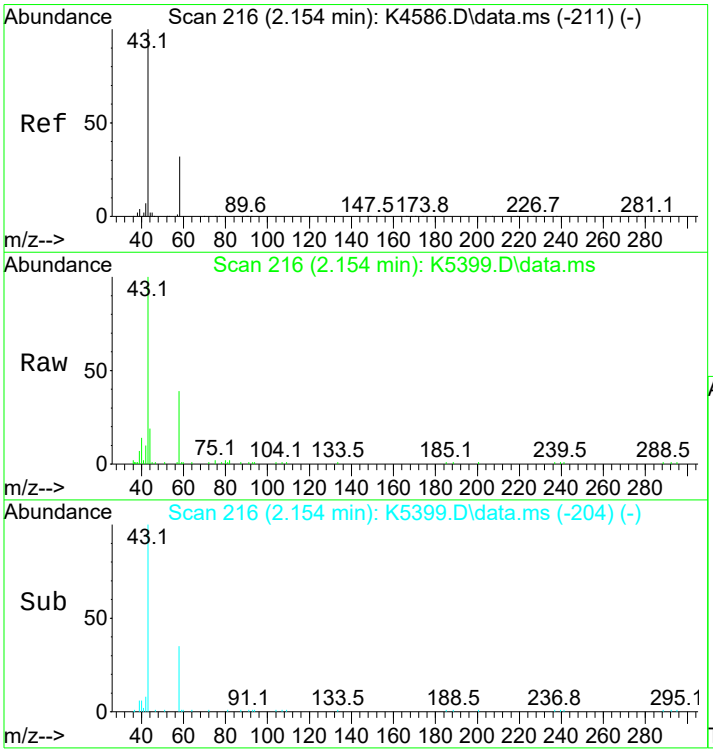
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5399.D
Acq On : 30 Aug 2024 12:45 pm
Operator : F.NAEGLER
Sample : R2408140-014
Misc : CEC 26473 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 30 14:38:52 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

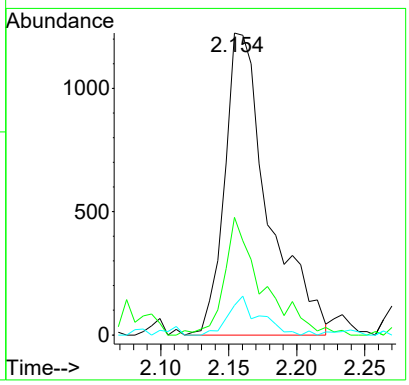


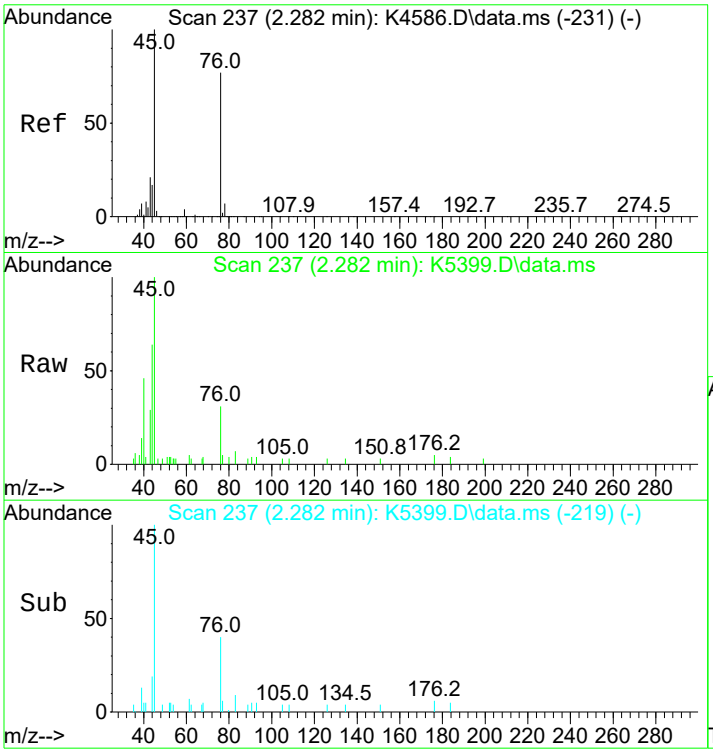


#16
Acetone
Concen: 0.91 ug/L
RT: 2.154 min Scan# 216
Delta R.T. 0.000 min
Lab File: K5399.D
Acq: 30 Aug 2024 12:45 pm

Tgt Ion: 43 Resp: 2729

Ion	Ratio	Lower	Upper
43	100		
58	39.0	11.5	51.5
42	9.8	0.0	27.3

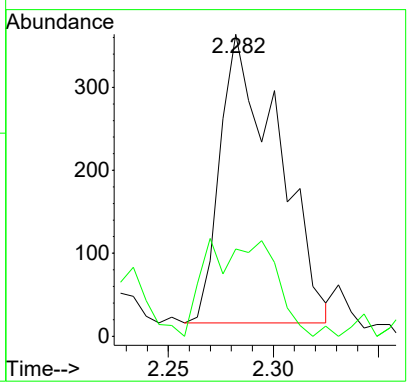


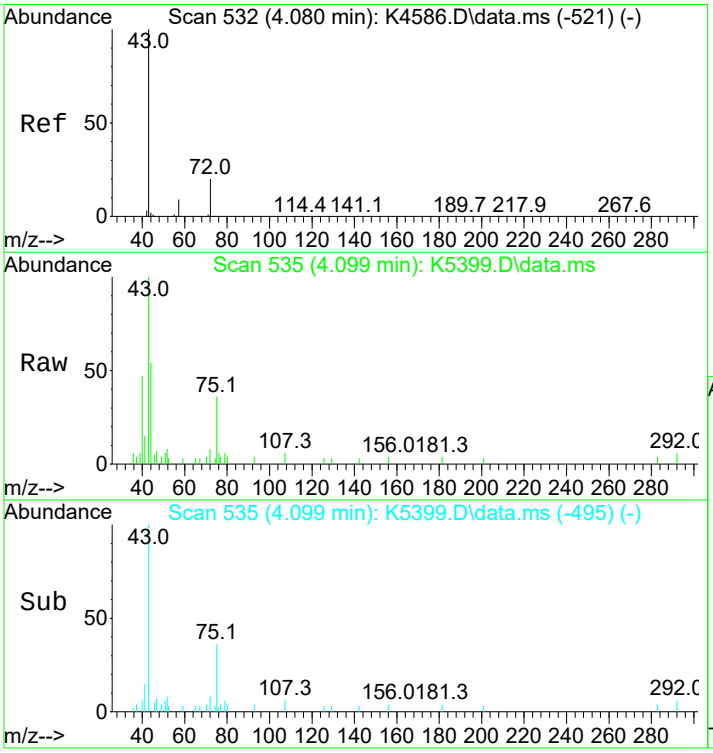


#17
2-Propanol
Concen: 1.13 ug/L
RT: 2.282 min Scan# 237
Delta R.T. 0.000 min
Lab File: K5399.D
Acq: 30 Aug 2024 12:45 pm

Tgt Ion: 45 Resp: 665

Ion	Ratio	Lower	Upper
45	100		
43	28.8	1.4	41.4

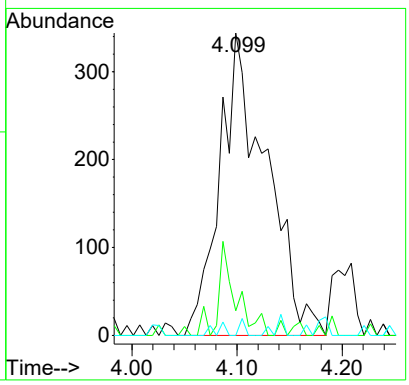


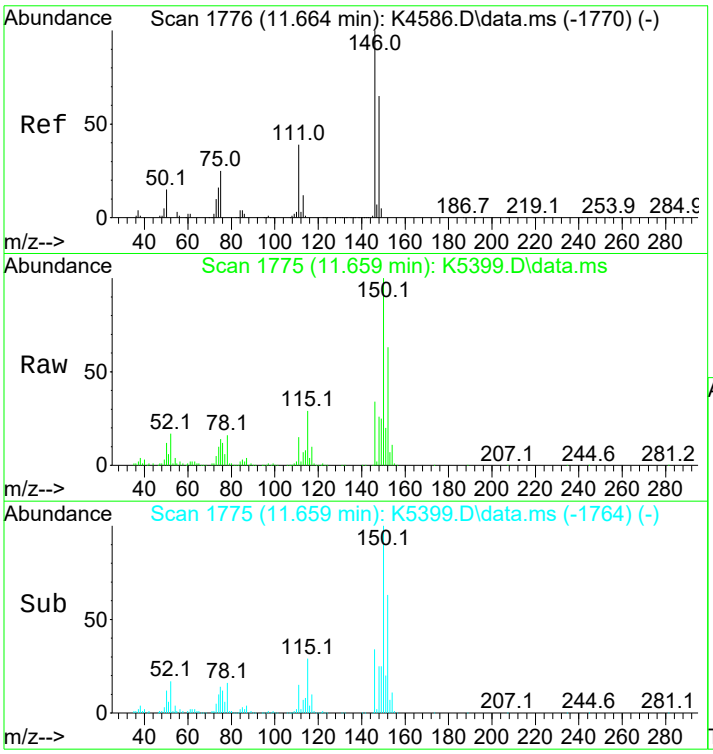


#34
2-Butanone
Concen: 0.29 ug/L
RT: 4.099 min Scan# 535
Delta R.T. 0.018 min
Lab File: K5399.D
Acq: 30 Aug 2024 12:45 pm

Tgt Ion: 43 Resp: 1050

Ion	Ratio	Lower	Upper
43	100		
72	8.1	1.2	41.2
57	0.0	0.0	29.2

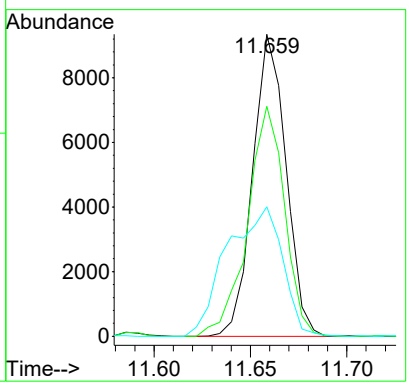




#105
1,4-Dclbenz
Concen: 1.44 ug/L
RT: 11.659 min Scan# 1775
Delta R.T. -0.006 min
Lab File: K5399.D
Acq: 30 Aug 2024 12:45 pm

Tgt Ion:146 Resp: 11186

Ion	Ratio	Lower	Upper
146	100		
148	76.2	44.8	84.8
111	42.8	18.8	58.8



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5392.D
Acq On : 30 Aug 2024 10:00 am
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 30 11:47:22 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

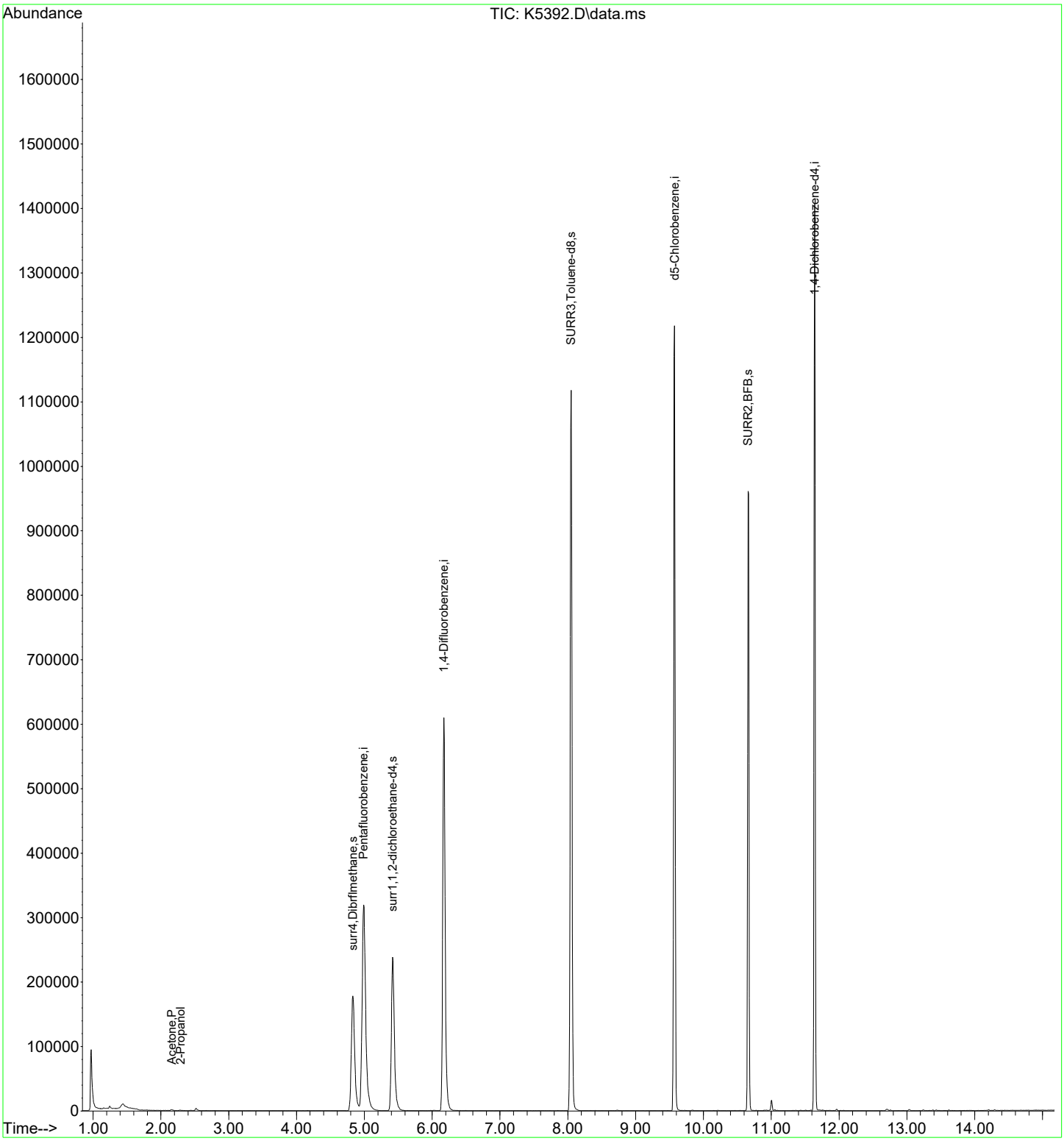
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.989	168	383490	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.172	114	626756	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.573	117	563835	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	258249	50.00	ug/L	# 0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.830	113	194113	49.65	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 99.30%			
47) surr1,1,2-dichloroetha...	5.416	65	268703	50.28	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.56%			
64) SURR3,Toluene-d8	8.049	98	727884	50.73	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.46%			
69) SURR2,BFB	10.659	95	270945	48.03	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 96.06%			
Target Compounds						Qvalue
16) Acetone	2.160	43	1931	0.629	ug/L	92
17) 2-Propanol	2.288	45	531	0.877	ug/L	94
22) Methylene Chloride	2.520	84	1486	Below Cal	#	90

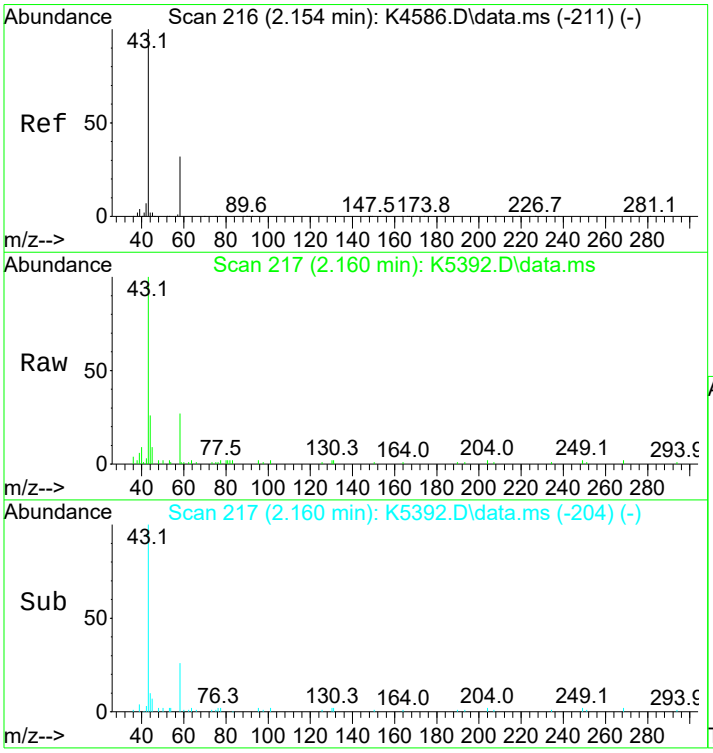
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5392.D
Acq On : 30 Aug 2024 10:00 am
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 30 11:47:22 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

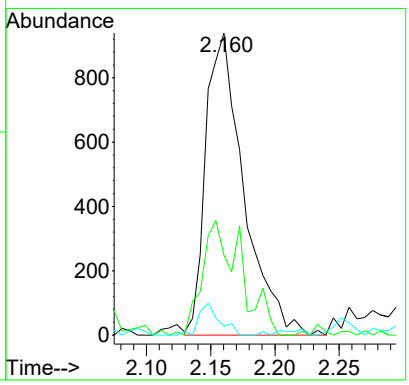


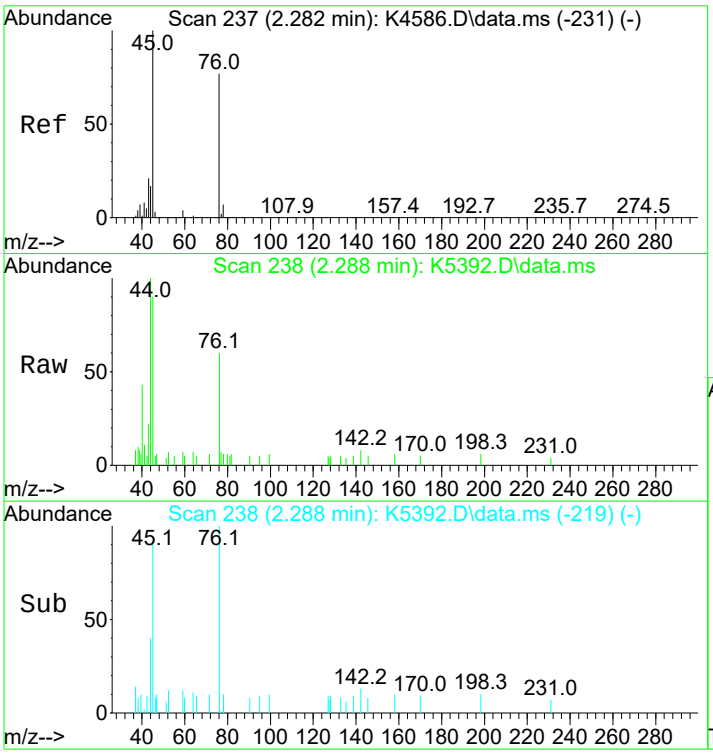


#16
Acetone
Concen: 0.63 ug/L
RT: 2.160 min Scan# 217
Delta R.T. 0.006 min
Lab File: K5392.D
Acq: 30 Aug 2024 10:00 am

Tgt Ion: 43 Resp: 1931

Ion	Ratio	Lower	Upper
43	100		
58	27.9	11.5	51.5
42	3.0	0.0	27.3

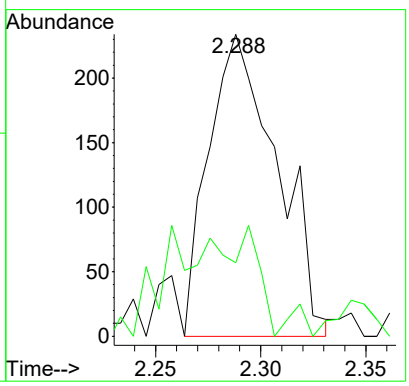


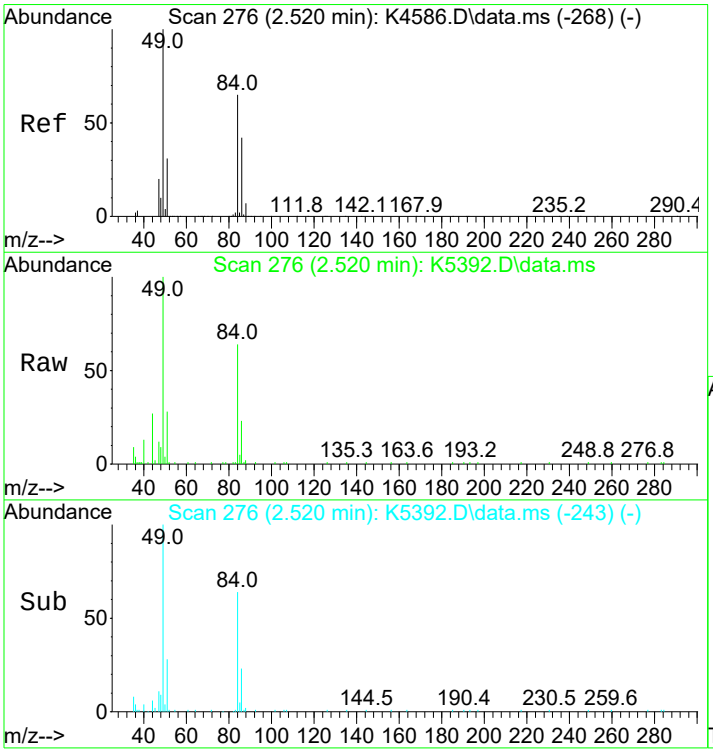


#17
2-Propanol
Concen: 0.88 ug/L
RT: 2.288 min Scan# 238
Delta R.T. 0.006 min
Lab File: K5392.D
Acq: 30 Aug 2024 10:00 am

Tgt Ion: 45 Resp: 531

Ion	Ratio	Lower	Upper
45	100		
43	24.4	1.4	41.4

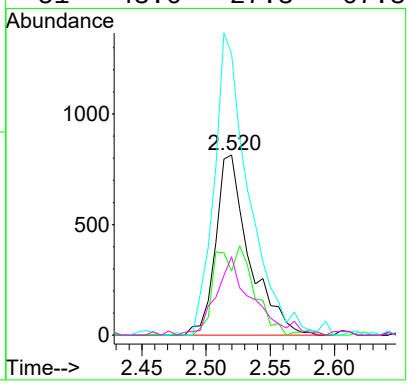




#22
Methylene Chloride
Concen: Below Cal
RT: 2.520 min Scan# 276
Delta R.T. 0.001 min
Lab File: K5392.D
Acq: 30 Aug 2024 10:00 am

Tgt Ion: 84 Resp: 1486

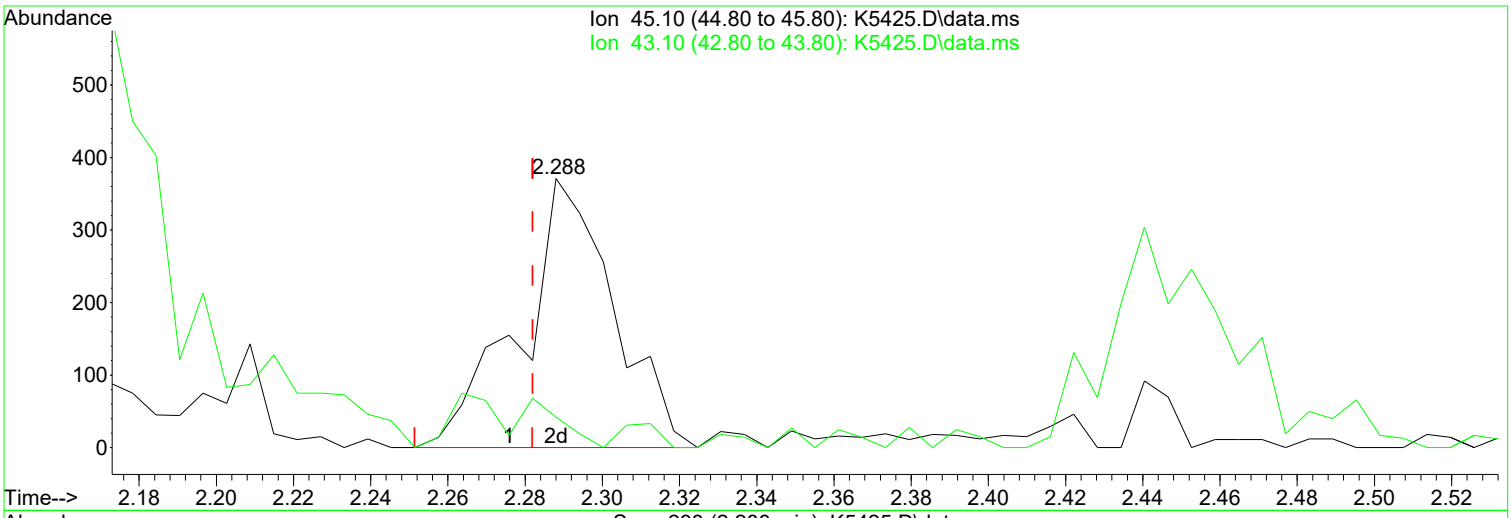
Ion	Ratio	Lower	Upper
84	100		
86	35.6	44.7	84.7#
49	156.1	134.9	174.9
51	43.6	27.3	67.3

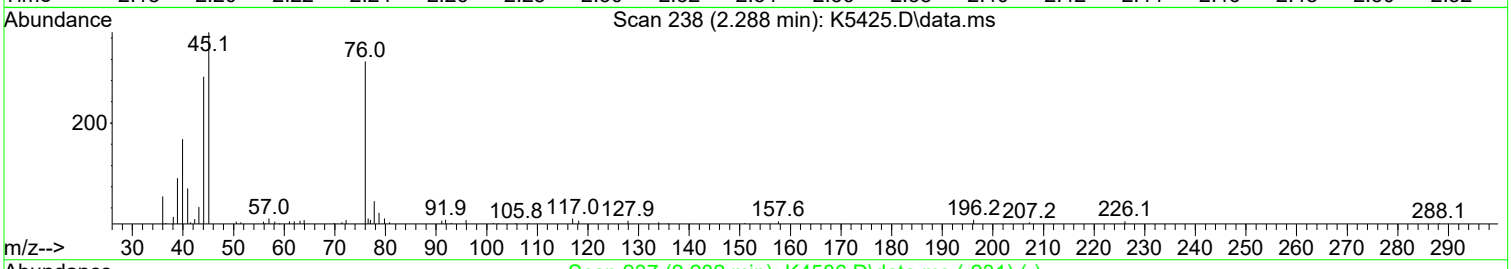


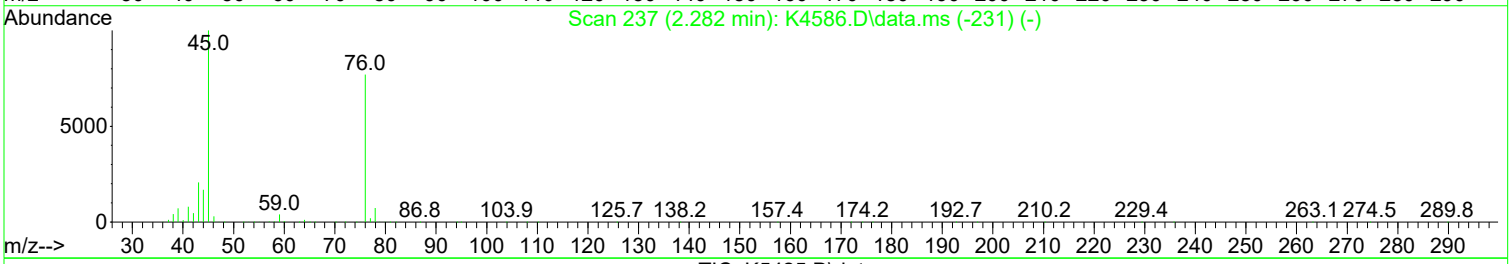
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5425.D
Acq On : 31 Aug 2024 12:52 pm
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 31 13:26:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5425.D\data.ms

(17) 2-Propanol

2.288min (+ 0.006) 1.00 ug/L m

response 620

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	21.40	11.32
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

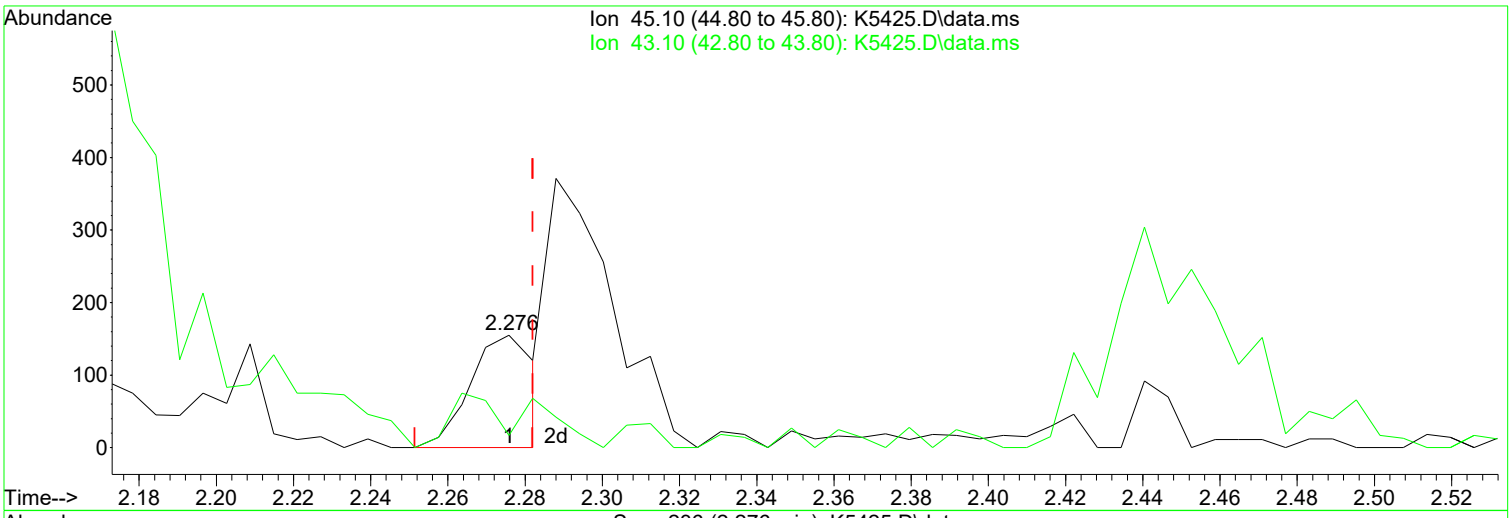
Poor integration.

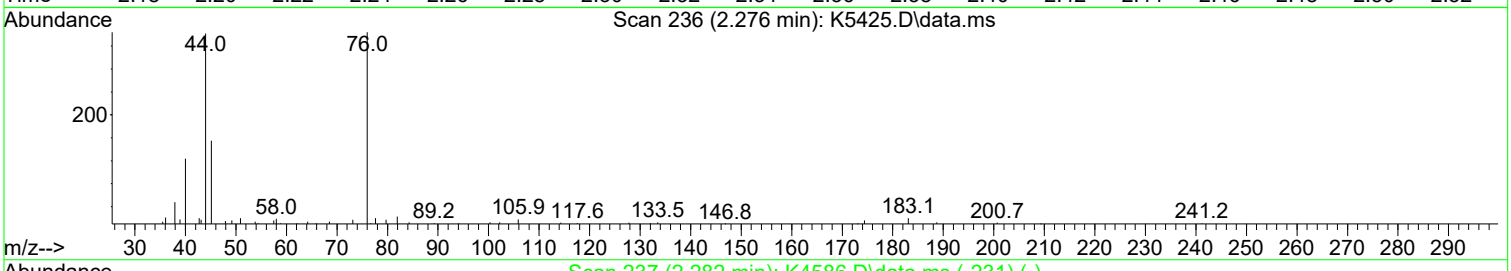
09/02/24

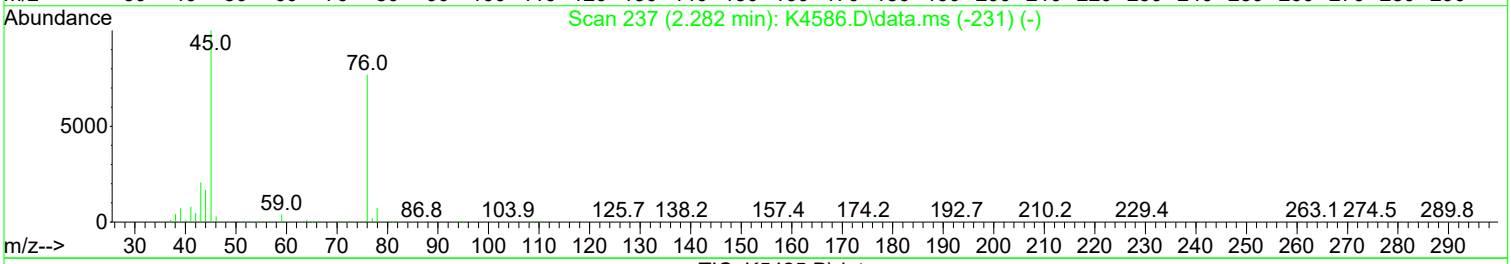
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5425.D
Acq On : 31 Aug 2024 12:52 pm
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 31 13:26:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5425.D\data.ms

(17) 2-Propanol

2.276min (-0.006) 0.29 ug/L

response 178

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	21.40	10.97
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/02/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5425.D
Acq On : 31 Aug 2024 12:52 pm
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 31 13:26:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

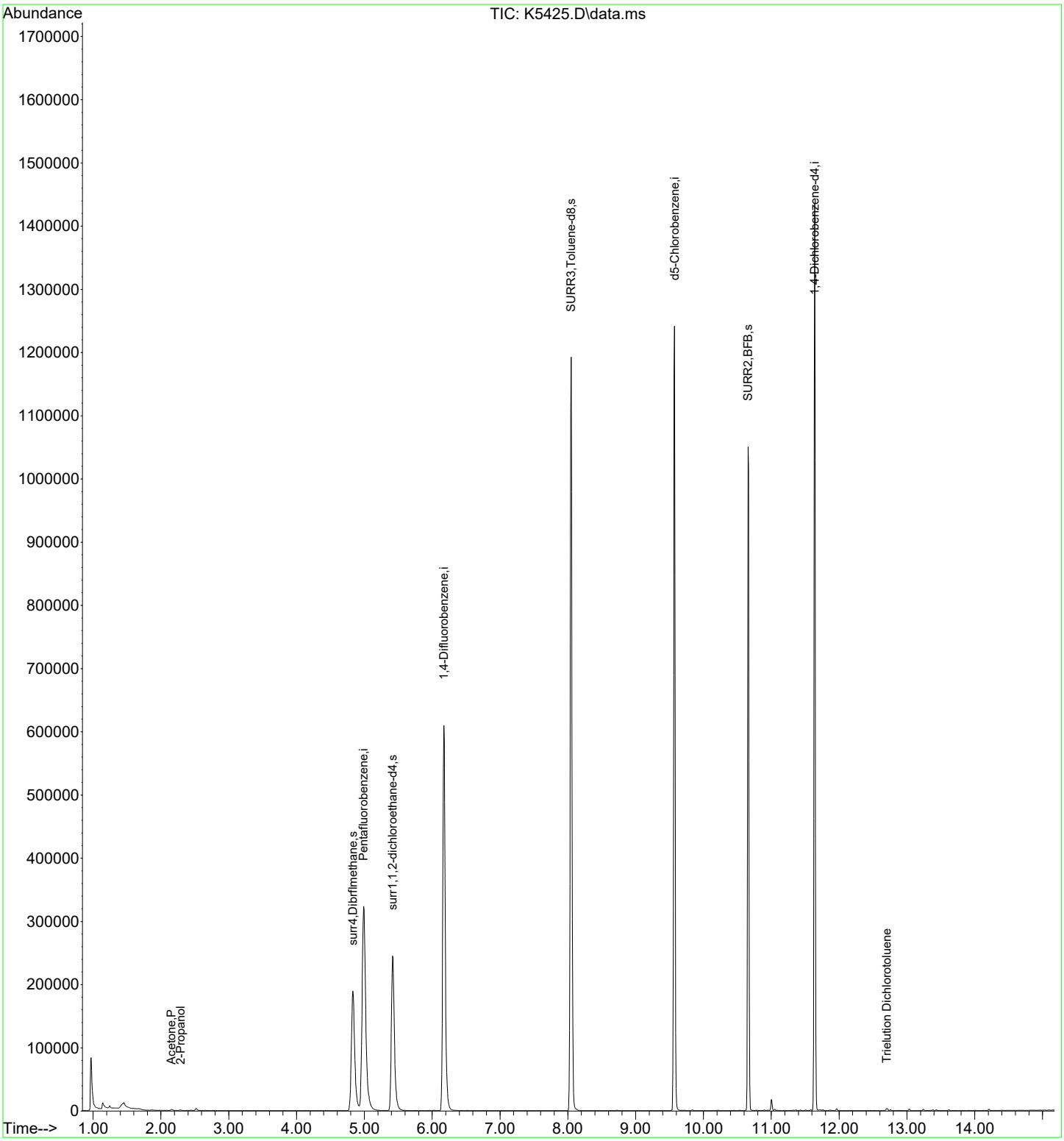
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.989	168	391681	50.00	ug/L		0.00
42) 1,4-Difluorobenzene	6.171	114	638243	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.573	117	568242	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	260718	50.00	ug/L	#	0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.830	113	201826	50.69	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 101.38%				
47) surr1,1,2-dichloroetha...	5.415	65	279167	51.30	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.60%				
64) SURR3,Toluene-d8	8.049	98	768507	52.60	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 105.20%				
69) SURR2,BFB	10.658	95	291834	50.80	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.60%				
Target Compounds							Qvalue
6) Bromomethane	1.465	94	378	Below Cal		#	52
16) Acetone	2.154	43	2230	0.711	ug/L		91
17) 2-Propanol	2.288	45	620m	1.003	ug/L		
22) Methylene Chloride	2.520	84	1727	Below Cal		#	74
111) Trielution Dichlorotol...	12.701	125	1819	0.245	ug/L	#	64

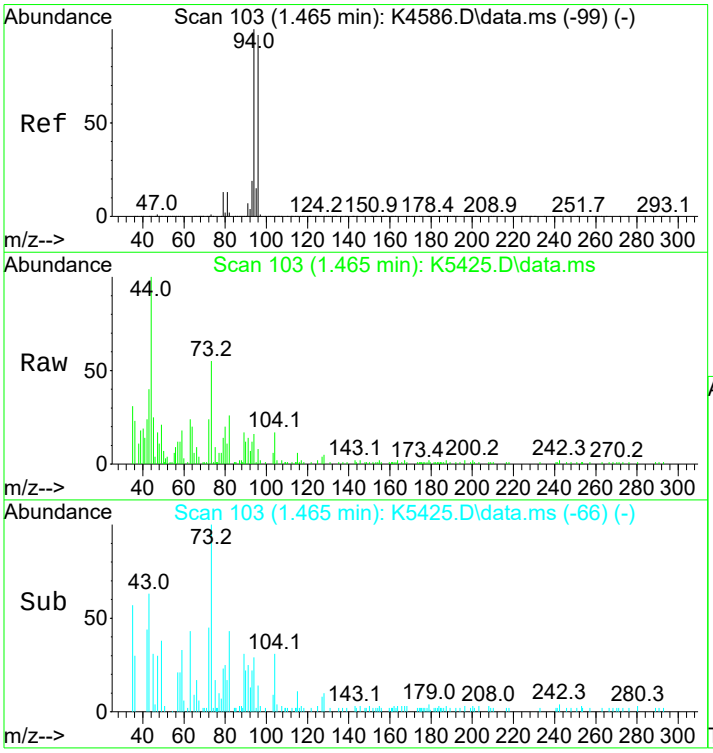
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5425.D
Acq On : 31 Aug 2024 12:52 pm
Operator : F.NAEGLER
Sample : MBLK-FP
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 31 13:26:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

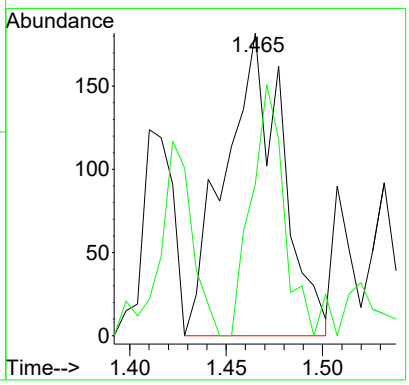


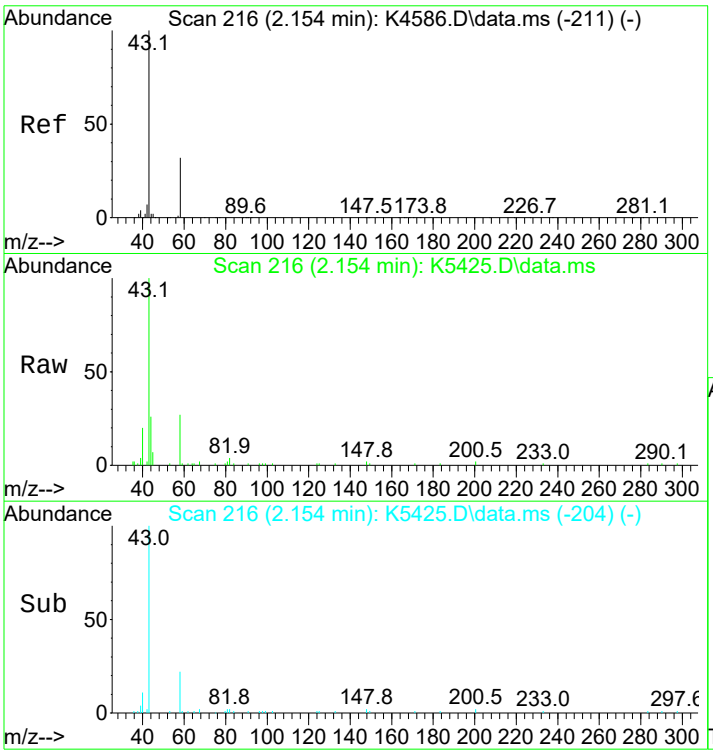


#6
Bromomethane
Concen: Below Cal
RT: 1.465 min Scan# 103
Delta R.T. 0.000 min
Lab File: K5425.D
Acq: 31 Aug 2024 12:52 pm

Tgt Ion: 94 Resp: 378

Ion	Ratio	Lower	Upper
94	100		
96	50.0	76.6	116.6#

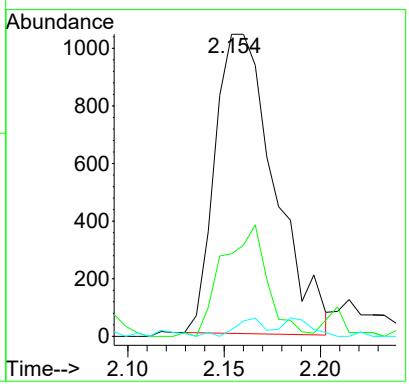


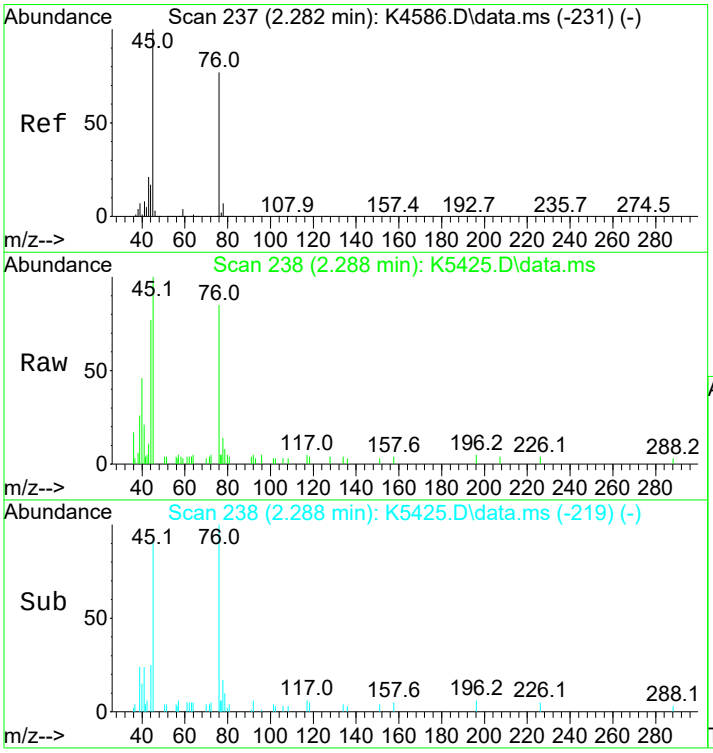


#16
Acetone
Concen: 0.71 ug/L
RT: 2.154 min Scan# 216
Delta R.T. -0.000 min
Lab File: K5425.D
Acq: 31 Aug 2024 12:52 pm

Tgt Ion: 43 Resp: 2230

Ion	Ratio	Lower	Upper
43	100		
58	27.4	11.5	51.5
42	2.2	0.0	27.3

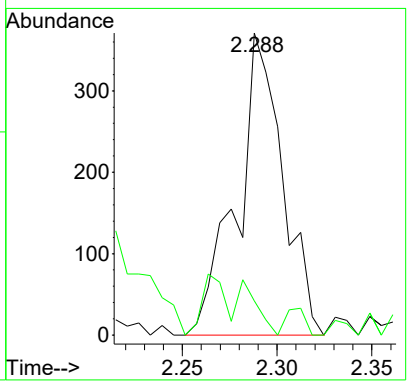


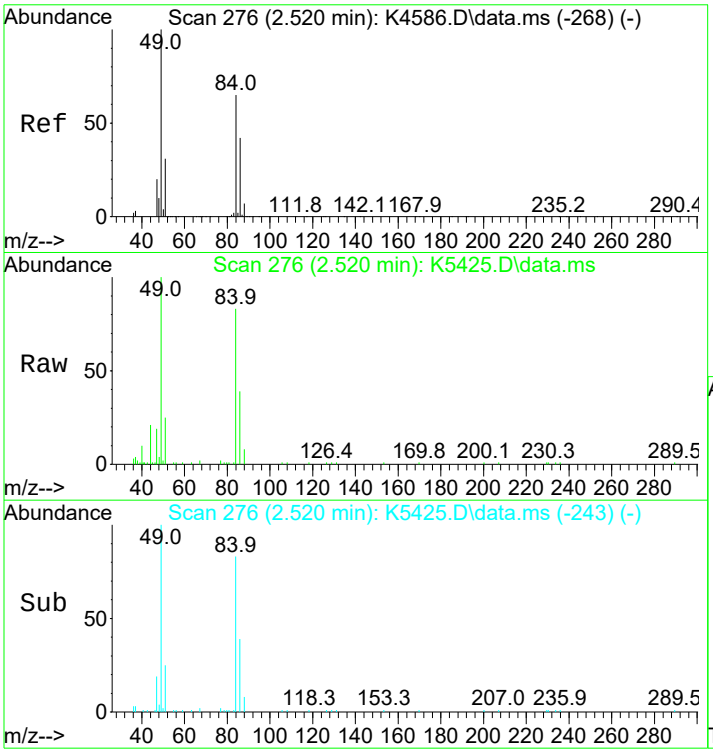


#17
2-Propanol
Concen: 1.00 ug/L m
RT: 2.288 min Scan# 238
Delta R.T. 0.006 min
Lab File: K5425.D
Acq: 31 Aug 2024 12:52 pm

Tgt Ion: 45 Resp: 620

Ion	Ratio	Lower	Upper
45	100		
43	11.3	1.4	41.4

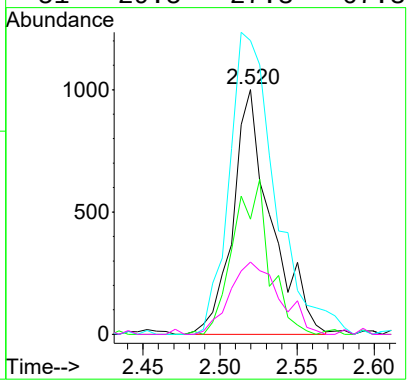


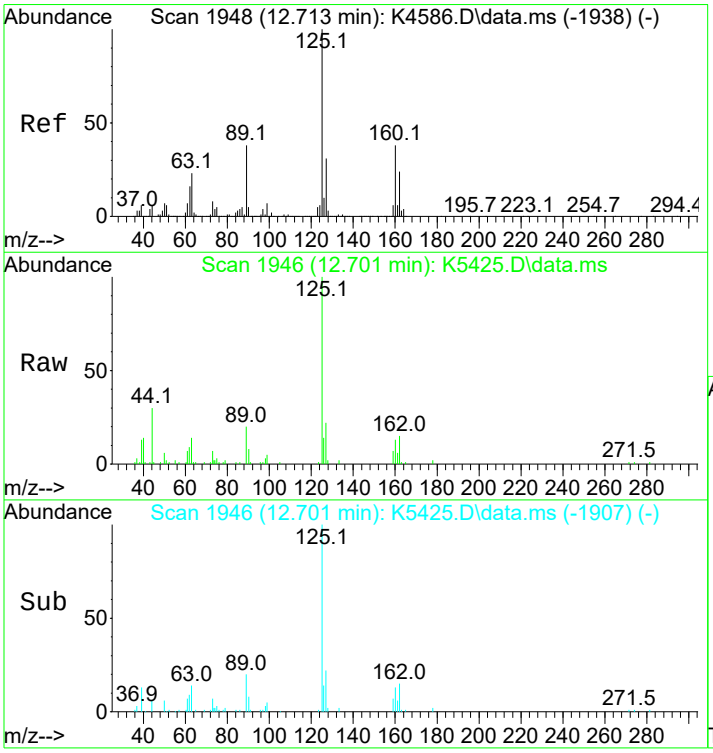


#22
Methylene Chloride
Concen: Below Cal
RT: 2.520 min Scan# 276
Delta R.T. 0.001 min
Lab File: K5425.D
Acq: 31 Aug 2024 12:52 pm

Tgt Ion: 84 Resp: 1727

Ion	Ratio	Lower	Upper
84	100		
86	47.1	44.7	84.7
49	120.0	134.9	174.9#
51	29.5	27.3	67.3

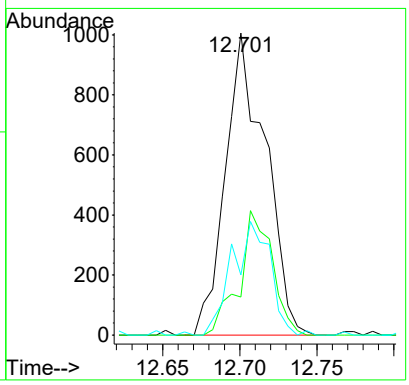




#111
Trielution Dichlorotoluene
Concen: 0.25 ug/L
RT: 12.701 min Scan# 1946
Delta R.T. -0.012 min
Lab File: K5425.D
Acq: 31 Aug 2024 12:52 pm

Tgt Ion:125 Resp: 1819

Ion	Ratio	Lower	Upper
125	100		
160	12.6	18.0	58.0#
89	19.9	17.9	57.9



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5389.D
Acq On : 30 Aug 2024 08:41 am
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 30 08:57:19 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.989	168	389081	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.172	114	643725	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.573	117	571471	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	273606	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.830	113	202683	50.47	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 100.94%			
47) surr1,1,2-dichloroetha...	5.416	65	270562	49.30	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 98.60%			
64) SURR3,Toluene-d8	8.049	98	738304	50.10	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 100.20%			
69) SURR2,BFB	10.659	95	287985	49.71	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.42%			
Target Compounds						Qvalue
2) Chlorodifluoromethane	1.081	51	90305	17.055	ug/L	99
3) Dichlorodifluoromethane	1.075	85	95904	19.158	ug/L	97
4) Chloromethane	1.197	50	91451	17.034	ug/L	96
5) Vinyl Chloride	1.264	62	85302	15.743	ug/L	99
6) Bromomethane	1.465	94	42376	19.266	ug/L	97
7) Chloroethane	1.538	64	48905	14.301	ug/L	96
8) Freon 21	1.678	67	108552	15.285	ug/L	98
9) Trichlorofluoromethane	1.721	101	102868	17.563	ug/L	99
10) Diethyl Ether	1.935	59	70858	16.808	ug/L	96
11) Freon 123a	1.941	67	67230	17.013	ug/L	96
12) Freon 123	1.989	83	101348	21.021	ug/L	98
13) Acrolein	2.032	56	37212	59.891	ug/L	100
14) 1,1-Diclethene	2.105	96	57970	17.577	ug/L	94
15) Freon 113	2.111	101	57531	16.725	ug/L	94
16) Acetone	2.154	43	33558	10.776	ug/L	96
17) 2-Propanol	2.276	45	130458	212.413	ug/L	99
18) Iodomethane	2.227	142	103120	20.052	ug/L	95
19) Carbon Disulfide	2.282	76	155053	19.096	ug/L	100
20) Acetonitrile/Allyl Chl...	2.410	41	165431	100.953	ug/L	92
21) Methyl Acetate	2.434	43	71901	13.231	ug/L	98
22) Methylene Chloride	2.520	84	65814	17.621	ug/L	96
23) TBA	2.648	59	233168	204.827	ug/L	99
24) Acrylonitrile	2.758	53	192752	67.804	ug/L	98
25) Methyl-t-Butyl Ether	2.800	73	211913	16.750	ug/L	96
26) trans-1,2-Dichloroethene	2.782	96	59795	16.528	ug/L	96
27) 1,1-Diclethane	3.245	63	131643	17.645	ug/L	99
28) Vinyl Acetate	3.337	86	13877	21.395	ug/L #	67
29) DIPE	3.355	45	233097	17.557	ug/L	92
30) 2-Chloro-1,3-Butadiene	3.355	53	127672	16.870	ug/L	99
31) ETBE	3.849	59	250855	17.904	ug/L	98
32) 2,2-Dichloropropane	4.013	77	96495	19.674	ug/L	97
33) cis-1,2-Dichloroethene	4.019	96	73326	17.422	ug/L	99
34) 2-Butanone	4.080	43	47114	12.678	ug/L	99
35) Propionitrile	4.154	54	78681	61.976	ug/L	96
36) Bromochloromethane	4.379	130	49666	17.910	ug/L	99
37) Methacrylonitrile	4.404	67	33836	14.230	ug/L	94
38) Tetrahydrofuran	4.489	42	27790	11.725	ug/L	95
39) Chloroform	4.550	83	116585	16.811	ug/L	94
40) 1,1,1-Trichloroethane	4.830	97	104729	17.209	ug/L	96

1st FNJ 08/30/24
2nd WR 09/04/24

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5389.D
Acq On : 30 Aug 2024 08:41 am
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 30 08:57:19 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.763	73	190123	17.586	ug/L	97
43) Cyclohexane	4.916	41	64539	17.029	ug/L	90
45) Carbontetrachloride	5.129	117	87723	16.362	ug/L	100
46) 1,1-Dichloropropene	5.147	75	81304	17.199	ug/L	93
48) Benzene	5.495	78	248590	18.056	ug/L	99
49) 1,2-Dichloroethane	5.550	62	117832	17.166	ug/L	98
50) Iso-Butyl Alcohol	5.556	43	70526	210.608	ug/L	96
51) n-Heptane	6.019	43	95043	18.430	ug/L	96
52) 1-Butanol	6.586	56	119046	546.994	ug/L	100
53) Trichloroethene	6.507	130	72245	17.697	ug/L	98
54) Methylcyclohexane	6.745	55	107659	18.536	ug/L	98
55) 1,2-Diclpropane	6.806	63	67996	16.314	ug/L	97
56) Dibromomethane	6.952	93	45195	17.292	ug/L	93
57) 1,4-Dioxane	7.031	88	21899	245.303	ug/L	94
58) Methyl Methacrylate	7.062	69	54826	15.743	ug/L	94
59) Bromodichloromethane	7.196	83	87036	17.726	ug/L	98
60) 2-Nitropropane	7.494	41	45798	26.097	ug/L	99
62) cis-1,3-Dichloropropene	7.751	75	106596	19.061	ug/L	98
63) 4-Methyl-2-pentanone	7.976	43	93291	14.289	ug/L	99
65) Toluene	8.122	91	276655	17.700	ug/L	99
66) trans-1,3-Dichloropropene	8.409	75	101567	18.911	ug/L	98
67) Ethyl Methacrylate	8.561	69	97491	16.392	ug/L	93
68) 1,1,2-Trichloroethane	8.598	97	63888	16.962	ug/L	98
71) Tetrachloroethene	8.726	164	52816	18.742	ug/L	97
72) 2-Hexanone	8.909	43	66419	13.186	ug/L	90
73) 1,3-Dichloropropane	8.769	76	106473	17.269	ug/L	99
74) Dibromochloromethane	9.000	129	70350	18.057	ug/L	98
75) N-Butyl Acetate	9.067	43	136382	14.120	ug/L	99
76) 1,2-Dibromoethane	9.092	107	70089	17.179	ug/L	97
77) 3-Chlorobenzotrifluoride	9.628	180	88123	18.978	ug/L	99
78) Chlorobenzene	9.598	112	185975	17.367	ug/L	100
79) 4-Chlorobenzotrifluoride	9.683	180	78324	18.400	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.689	131	71472	18.524	ug/L	98
81) Ethylbenzene	9.726	106	98539	18.302	ug/L	99
82) (m+p)Xylene	9.836	106	245531	37.045	ug/L	96
83) o-Xylene	10.201	106	119774	18.144	ug/L	99
84) Styrene	10.214	104	203885	18.361	ug/L	99
85) Bromoform	10.366	173	41387	18.916	ug/L	96
86) 2-Chlorobenzotrifluoride	10.451	180	86009	18.281	ug/L	100
87) Isopropylbenzene	10.537	105	303735	17.947	ug/L	99
88) Cyclohexanone	10.604	55	70217	56.160	ug/L	99
89) trans-1,4-Dichloro-2-B...	10.860	53	28150	11.787	ug/L	96
91) 1,1,2,2-Tetrachloroethane	10.805	83	90119	15.738	ug/L	96
92) Bromobenzene	10.780	156	78490	17.983	ug/L	92
93) 1,2,3-Trichloropropane	10.835	110	31405	15.124	ug/L	97
94) n-Propylbenzene	10.896	91	348738	17.589	ug/L	99
95) 2-Chlorotoluene	10.957	91	218436	17.519	ug/L	98
96) 3-Chlorotoluene	11.012	91	224868	17.825	ug/L	98
97) 4-Chlorotoluene	11.049	91	258267	18.008	ug/L	99
98) 1,3,5-Trimethylbenzene	11.055	105	266781	17.767	ug/L	97
99) tert-Butylbenzene	11.323	119	227540	17.755	ug/L	99
100) 1,2,4-Trimethylbenzene	11.366	105	268206	17.618	ug/L	100
101) 3,4-Dichlorobenzotrifl...	11.433	214	58843	17.800	ug/L	94
102) sec-Butylbenzene	11.506	105	317223	17.678	ug/L	99
103) p-Isopropyltoluene	11.634	119	283254	17.949	ug/L	98
104) 1,3-Dclbenz	11.585	146	152104	18.196	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5389.D
Acq On : 30 Aug 2024 08:41 am
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 30 08:57:19 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

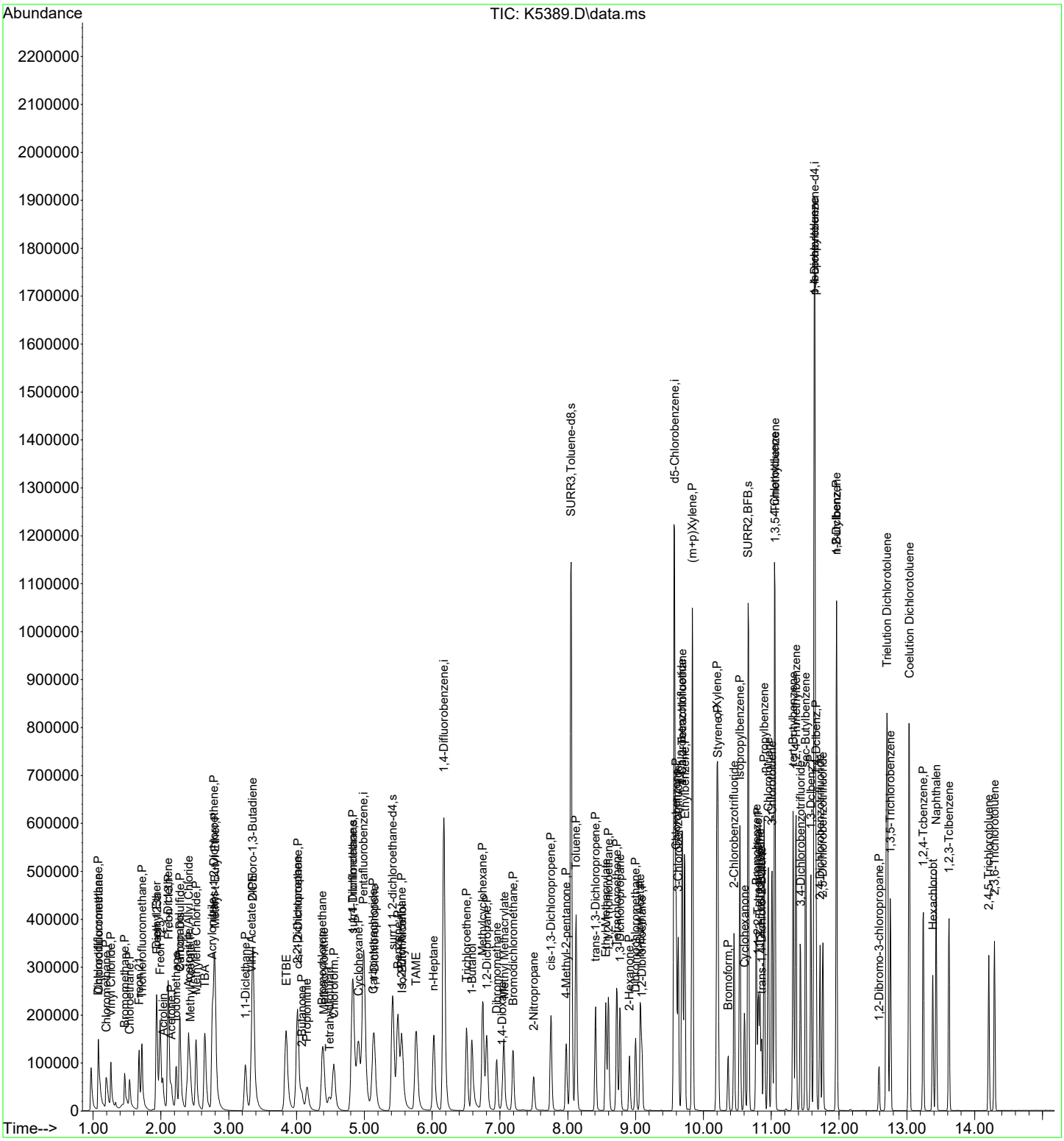
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,4-Dclbenz	11.658	146	153193	18.150	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.719	214	53648	18.430	ug/L	97
107) 2,5-Dichlorobenzotrifl...	11.762	214	59600	18.368	ug/L	97
108) n-Butylbenzene	11.963	91	248547	18.086	ug/L	99
109) 1,2-Dclbenz	11.963	146	144321	17.487	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.591	157	18929	13.799	ug/L	91
111) Trielution Dichlorotol...	12.707	125	406443	52.248	ug/L	97
112) 1,3,5-Trichlorobenzene	12.756	180	93909	17.414	ug/L	99
113) Coelution Dichlorotoluene	13.036	125	292639	34.973	ug/L	95
114) 1,2,4-Tcbenzene	13.243	180	92782	17.744	ug/L	97
115) Hexachlorobt	13.384	225	36616	19.023	ug/L	99
116) Naphthalen	13.432	128	282511	14.287	ug/L	99
117) 1,2,3-Tclbenzene	13.621	180	87140	16.911	ug/L	97
118) 2,4,5-Trichlorotoluene	14.207	159	64298	15.664	ug/L	97
119) 2,3,6-Trichlorotoluene	14.292	159	64060	16.868	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5389.D
Acq On : 30 Aug 2024 08:41 am
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 30 08:57:19 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5422.D
Acq On : 31 Aug 2024 11:32 am
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 31 11:48:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.989	168	386277	50.00	ug/L		0.00
42) 1,4-Difluorobenzene	6.172	114	643870	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.573	117	580444	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	275954	50.00	ug/L		0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.824	113	209875	52.25	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 104.50%				
47) surr1,1,2-dichloroetha...	5.416	65	277224	50.50	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 101.00%				
64) SURR3,Toluene-d8	8.049	98	777739	52.77	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 105.54%				
69) SURR2,BFB	10.659	95	300500	51.85	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 103.70%				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.081	51	97545	18.557	ug/L		96
3) Dichlorodifluoromethane	1.075	85	116661	23.474	ug/L		95
4) Chloromethane	1.191	50	107648	20.196	ug/L		99
5) Vinyl Chloride	1.264	62	103275	19.198	ug/L		99
6) Bromomethane	1.465	94	36699	16.686	ug/L		95
7) Chloroethane	1.538	64	55911	16.468	ug/L		98
8) Freon 21	1.678	67	116509	16.524	ug/L		99
9) Trichlorofluoromethane	1.715	101	124112	21.344	ug/L		98
10) Diethyl Ether	1.935	59	84501	20.189	ug/L		97
11) Freon 123a	1.941	67	75665	19.287	ug/L		99
12) Freon 123	1.989	83	113268	23.664	ug/L		98
13) Acrolein	2.026	56	44582	72.274	ug/L		97
14) 1,1-Diclethene	2.105	96	70305	21.472	ug/L		94
15) Freon 113	2.111	101	70180	20.551	ug/L		94
16) Acetone	2.154	43	38692	12.514	ug/L		99
17) 2-Propanol	2.276	45	170953	280.368	ug/L		99
18) Iodomethane	2.221	142	100651	19.714	ug/L		94
19) Carbon Disulfide	2.276	76	173753	21.554	ug/L		99
20) Acetonitrile/Allyl Chl...	2.410	41	199594	122.685	ug/L		94
21) Methyl Acetate	2.434	43	82863	15.359	ug/L		96
22) Methylene Chloride	2.520	84	76676	20.821	ug/L		97
23) TBA	2.648	59	325374	287.900	ug/L		100
24) Acrylonitrile	2.758	53	242815	86.035	ug/L		100
25) Methyl-t-Butyl Ether	2.794	73	250504	19.944	ug/L		97
26) trans-1,2-Dichloroethene	2.782	96	73265	20.399	ug/L		97
27) 1,1-Diclethane	3.245	63	157064	21.206	ug/L		97
28) Vinyl Acetate	3.337	86	15402	23.748	ug/L	#	81
29) DIPE	3.361	45	259020	19.652	ug/L		96
30) 2-Chloro-1,3-Butadiene	3.355	53	139492	18.566	ug/L		99
31) ETBE	3.849	59	279493	20.093	ug/L		99
32) 2,2-Dichloropropane	4.001	77	112757	23.156	ug/L		97
33) cis-1,2-Dichloroethene	4.013	96	85624	20.492	ug/L		98
34) 2-Butanone	4.080	43	55385	15.012	ug/L		98
35) Propionitrile	4.154	54	103201	81.880	ug/L		93
36) Bromochloromethane	4.373	130	57927	21.040	ug/L		98
37) Methacrylonitrile	4.391	67	43363	18.369	ug/L		99
38) Tetrahydrofuran	4.483	42	37030	15.737	ug/L		100
39) Chloroform	4.550	83	136808	19.870	ug/L		99
40) 1,1,1-Trichloroethane	4.824	97	124648	20.631	ug/L		97

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5422.D
Acq On : 31 Aug 2024 11:32 am
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 31 11:48:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.763	73	215712	20.098	ug/L	96
43) Cyclohexane	4.910	41	69631	18.368	ug/L	89
45) Carbontetrachloride	5.123	117	108741	20.278	ug/L	96
46) 1,1-Dichloropropene	5.141	75	97677	20.658	ug/L	96
48) Benzene	5.495	78	293675	21.326	ug/L	99
49) 1,2-Dichloroethane	5.544	62	136984	19.952	ug/L	98
50) Iso-Butyl Alcohol	5.562	43	102330	305.514	ug/L	99
51) n-Heptane	6.025	43	111909	21.696	ug/L	99
52) 1-Butanol	6.586	56	164516	741.566	ug/L	97
53) Trichloroethene	6.507	130	82991	20.325	ug/L	95
54) Methylcyclohexane	6.745	55	115895	19.949	ug/L	94
55) 1,2-Diclpropane	6.806	63	80779	19.377	ug/L	98
56) Dibromomethane	6.952	93	53830	20.591	ug/L	94
57) 1,4-Dioxane	7.037	88	29226	327.303	ug/L	97
58) Methyl Methacrylate	7.056	69	67405	19.351	ug/L	98
59) Bromodichloromethane	7.190	83	102377	20.845	ug/L	99
60) 2-Nitropropane	7.495	41	59433	33.859	ug/L	99
62) cis-1,3-Dichloropropene	7.751	75	125027	22.352	ug/L	98
63) 4-Methyl-2-pentanone	7.976	43	110614	16.938	ug/L	99
65) Toluene	8.122	91	323821	20.713	ug/L	99
66) trans-1,3-Dichloropropene	8.409	75	119545	22.253	ug/L	99
67) Ethyl Methacrylate	8.561	69	116860	19.644	ug/L	95
68) 1,1,2-Trichloroethane	8.598	97	78337	20.794	ug/L	99
71) Tetrachloroethene	8.720	164	60315	21.073	ug/L	97
72) 2-Hexanone	8.909	43	80738	15.781	ug/L	95
73) 1,3-Dichloropropane	8.769	76	125822	20.092	ug/L	96
74) Dibromochloromethane	9.000	129	84236	21.287	ug/L	96
75) N-Butyl Acetate	9.067	43	157655	16.071	ug/L	97
76) 1,2-Dibromoethane	9.092	107	83613	20.177	ug/L	97
77) 3-Chlorobenzotrifluoride	9.628	180	93383	19.800	ug/L	98
78) Chlorobenzene	9.598	112	217855	20.030	ug/L	99
79) 4-Chlorobenzotrifluoride	9.683	180	85158	19.696	ug/L	98
80) 1,1,1,2-Tetrachloroethane	9.689	131	84991	21.687	ug/L	97
81) Ethylbenzene	9.726	106	117510	21.488	ug/L	98
82) (m+p)Xylene	9.836	106	287365	42.686	ug/L	96
83) o-Xylene	10.195	106	139816	20.853	ug/L	98
84) Styrene	10.214	104	240036	21.282	ug/L	98
85) Bromoform	10.366	173	51126	22.816	ug/L	100
86) 2-Chlorobenzotrifluoride	10.451	180	92313	19.317	ug/L	99
87) Isopropylbenzene	10.537	105	360592	20.977	ug/L	100
88) Cyclohexanone	10.604	55	98527	77.584	ug/L	99
89) trans-1,4-Dichloro-2-B...	10.860	53	33733	13.906	ug/L	98
91) 1,1,2,2-Tetrachloroethane	10.805	83	107694	18.647	ug/L	98
92) Bromobenzene	10.781	156	88972	20.212	ug/L	94
93) 1,2,3-Trichloropropane	10.835	110	38885	18.567	ug/L	94
94) n-Propylbenzene	10.896	91	414828	20.745	ug/L	99
95) 2-Chlorotoluene	10.957	91	255579	20.323	ug/L	98
96) 3-Chlorotoluene	11.012	91	246358	19.363	ug/L	97
97) 4-Chlorotoluene	11.049	91	302933	20.943	ug/L	99
98) 1,3,5-Trimethylbenzene	11.055	105	311045	20.538	ug/L	98
99) tert-Butylbenzene	11.323	119	267475	20.693	ug/L	98
100) 1,2,4-Trimethylbenzene	11.366	105	313356	20.409	ug/L	100
101) 3,4-Dichlorobenzotrifl...	11.433	214	62613	18.780	ug/L	95
102) sec-Butylbenzene	11.506	105	375344	20.739	ug/L	99
103) p-Isopropyltoluene	11.634	119	333577	20.958	ug/L	98
104) 1,3-Dclbenz	11.585	146	175740	20.845	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5422.D
Acq On : 31 Aug 2024 11:32 am
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 31 11:48:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

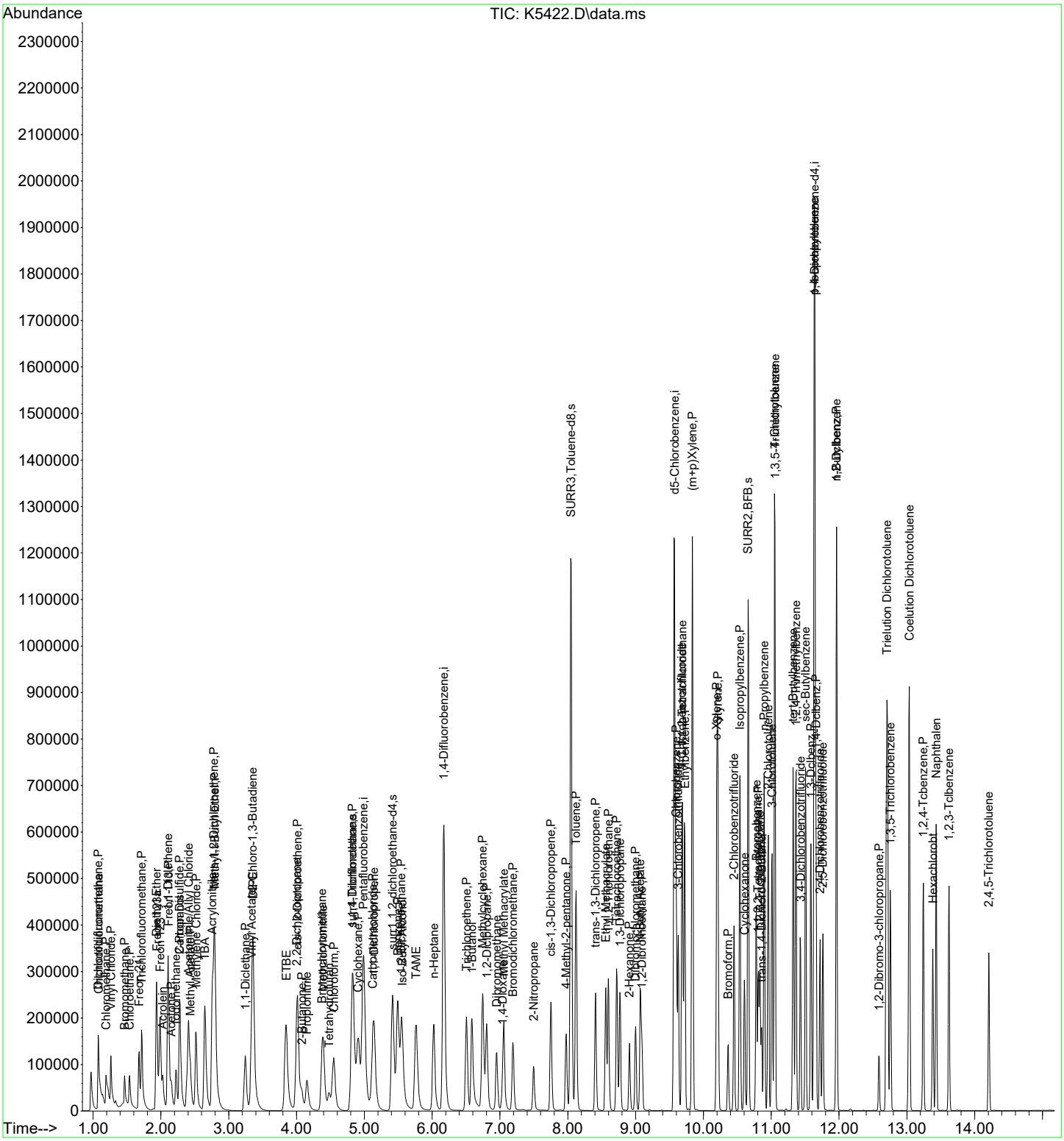
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,4-Dclbenz	11.658	146	180117	21.159	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.719	214	59364	20.220	ug/L	95
107) 2,5-Dichlorobenzotrifl...	11.762	214	63524	19.411	ug/L	97
108) n-Butylbenzene	11.963	91	291652	21.042	ug/L	98
109) 1,2-Dclbenz	11.963	146	169698	20.387	ug/L	97
110) 1,2-Dibromo-3-chloropr...	12.591	157	24274	17.418	ug/L	90
111) Trielution Dichlorotol...	12.707	125	434479	55.377	ug/L	99
112) 1,3,5-Trichlorobenzene	12.756	180	102009	18.755	ug/L	99
113) Coelution Dichlorotoluene	13.036	125	311551	36.916	ug/L	96
114) 1,2,4-Tcbenzene	13.243	180	107594	20.402	ug/L	97
115) Hexachlorobt	13.384	225	45303	23.336	ug/L	92
116) Naphthalen	13.432	128	351842	17.642	ug/L	99
117) 1,2,3-Tclbenzene	13.621	180	101506	19.531	ug/L	95
118) 2,4,5-Trichlorotoluene	14.207	159	70664	17.069	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st FJ 08/31/24
2nd AM 09/03/24

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5422.D
Acq On : 31 Aug 2024 11:32 am
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 31 11:48:46 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5387.D
Acq On : 30 Aug 2024 07:42 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 30 07:58:04 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	i	Pentafluorobenzene	50.000	50.000	0.0	105	0.00
2		Chlorodifluoromethane	50.000	44.945	10.1	96	0.00
3	P	Dichlorodifluoromethane	50.000	43.677	12.6	89	0.00
4	P	Chloromethane	50.000	48.671	2.7	106	-0.02
5	P	Vinyl Chloride	50.000	44.176	11.6	96	0.00
6	P	Bromomethane	50.000	59.301	-18.6	119	0.00
7	P	Chloroethane	50.000	44.537	10.9	91	0.00
8		Freon 21	50.000	47.386	5.2	102	0.00
9	P	Trichlorofluoromethane	50.000	54.274	-8.5	114	0.00
10		Diethyl Ether	50.000	47.832	4.3	104	0.00
11		Freon 123a	50.000	45.368	9.3	100	0.00
12		Freon 123	50.000	48.137	3.7	103	0.00
13		Acrolein	250.000	532.935	-113.2#	211	0.00
14		1,1-Diclethene	50.000	51.430	-2.9	111	0.00
15	P	Freon 113	50.000	52.376	-4.8	114	0.00
16	P	Acetone	50.000	36.494	27.0#	75	0.00
17		2-Propanol	1000.000	573.620	42.6#	60	0.00
18		Iodomethane	50.000	57.906	-15.8	116	0.00
19	P	Carbon Disulfide	50.000	57.349	-14.7	117	0.00
20		Acetonitrile/Allyl Chloride	300.000	279.932	6.7	100	0.00
21	P	Methyl Acetate	50.000	36.248	27.5#	76	0.00
22	P	Methylene Chloride	50.000	50.478	-1.0	105	0.00
23		TBA	1000.000	568.113	43.2#	59	0.00
24		Acrylonitrile	250.000	195.357	21.9#	82	0.00
25	P	Methyl-t-Butyl Ether	50.000	46.855	6.3	101	0.00
26	P	trans-1,2-Dichloroethene	50.000	51.028	-2.1	110	0.00
27	P	1,1-Diclethane	50.000	50.275	-0.5	107	0.00
28		Vinyl Acetate	50.000	64.865	-29.7#	141	0.00
29		DIPE	50.000	44.368	11.3	97	0.00
30		2-Chloro-1,3-Butadiene	50.000	53.231	-6.5	112	0.00
31		ETBE	50.000	44.475	11.0	96	0.00
32		2,2-Dichloropropane	50.000	58.829	-17.7	115	0.00
33	P	cis-1,2-Dichloroethene	50.000	48.806	2.4	106	0.00
34	P	2-Butanone	50.000	37.477	25.0#	77	0.00
35		Propionitrile	250.000	178.570	28.6#	76	0.00
36		Bromochloromethane	50.000	49.352	1.3	106	0.00
37		Methacrylonitrile	50.000	40.685	18.6	85	0.00
38		Tetrahydrofuran	50.000	34.411	31.2#	74	0.00
39	P	Chloroform	50.000	48.825	2.3	108	0.00
40	P	1,1,1-Trichloroethane	50.000	51.531	-3.1	108	0.00
41		TAME	50.000	44.540	10.9	96	0.00
42	i	1,4-Difluorobenzene	50.000	50.000	0.0	101	0.00
43	P	Cyclohexane	50.000	46.826	6.3	103	0.00
44	s	surr4,Dibrflmethane	50.000	52.302	-4.6	104	0.00
45	P	Carbontetrachloride	50.000	50.917	-1.8	108	0.00
46		1,1-Dichloropropene	50.000	51.610	-3.2	112	0.00
47	s	surr1,1,2-dichloroethane-d4	50.000	50.002	-0.0	99	0.00
48	P	Benzene	50.000	51.893	-3.8	110	0.00
49	P	1,2-Dichloroethane	50.000	48.037	3.9	103	0.00
50		Iso-Butyl Alcohol	1000.000	671.198	32.9#	64	0.00
51		n-Heptane	50.000	54.520	-9.0	120	0.00

1st FNJ 08/30/24
2nd WR 09/04/24

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Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 30 07:58:04 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52		1-Butanol	2500.000	1600.128	36.0#	58	0.00
53	P	Trichloroethene	50.000	50.823	-1.6	105	0.00
54	P	Methylcyclohexane	50.000	51.042	-2.1	107	0.00
55	P	1,2-Diclpropane	50.000	50.856	-1.7	107	0.00
56		Dibromomethane	50.000	48.772	2.5	101	0.00
57		1,4-Dioxane	1000.000	685.897	31.4#	70	0.00
58		Methyl Methacrylate	50.000	43.825	12.3	90	0.00
59	P	Bromodichloromethane	50.000	51.351	-2.7	104	0.00
60		2-Nitropropane	100.000	80.247	19.8	76	0.00
61		2-Chloroethylvinyl Ether	50.000	16.416	67.2#	33	0.00
62	P	cis-1,3-Dichloropropene	50.000	52.955	-5.9	105	0.00
63	P	4-Methyl-2-pentanone	50.000	39.546	20.9#	79	0.00
64	s	SURR3,Toluene-d8	50.000	50.813	-1.6	101	0.00
65	P	Toluene	50.000	50.518	-1.0	108	0.00
66	P	trans-1,3-Dichloropropene	50.000	52.742	-5.5	104	0.00
67		Ethyl Methacrylate	50.000	47.230	5.5	95	0.00
68	P	1,1,2-Trichloroethane	50.000	49.054	1.9	102	0.00
69	s	SURR2,BFB	50.000	50.520	-1.0	100	0.00
70	i	d5-Chlorobenzene	50.000	50.000	0.0	102	0.00
71	P	Tetrachloroethene	50.000	52.133	-4.3	112	0.00
72	P	2-Hexanone	50.000	37.571	24.9#	75	0.00
73		1,3-Dichloropropane	50.000	48.389	3.2	103	0.00
74	P	Dibromochloromethane	50.000	53.419	-6.8	103	0.00
75		N-Butyl Acetate	50.000	38.246	23.5#	77	0.00
76	P	1,2-Dibromoethane	50.000	48.154	3.7	99	0.00
77		3-Chlorobenzotrifluoride	50.000	48.041	3.9	106	0.00
78	P	Chlorobenzene	50.000	48.378	3.2	106	0.00
79		4-Chlorobenzotrifluoride	50.000	47.080	5.8	105	0.00
80		1,1,1,2-Tetrachloroethane	50.000	53.674	-7.3	109	0.00
81	P	Ethylbenzene	50.000	52.129	-4.3	110	0.00
82	P	(m+p)Xylene	100.000	102.668	-2.7	106	0.00
83	P	o-Xylene	50.000	51.546	-3.1	107	0.00
84	P	Styrene	50.000	52.174	-4.3	105	0.00
85	P	Bromoform	50.000	51.809	-3.6	99	0.00
86		2-Chlorobenzotrifluoride	50.000	46.130	7.7	103	0.00
87	P	Isopropylbenzene	50.000	48.824	2.4	100	0.00
88		Cyclohexanone	1000.000	882.420	11.8	84	0.00
89		trans-1,4-Dichloro-2-Butene	50.000	40.240	19.5	80	0.00
90	i	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	98	0.00
91	P	1,1,2,2-Tetrachloroethane	50.000	43.243	13.5	92	0.00
92		Bromobenzene	50.000	48.934	2.1	106	0.00
93		1,2,3-Trichloropropane	50.000	41.297	17.4	86	0.00
94		n-Propylbenzene	50.000	51.111	-2.2	107	0.00
95		2-Chlorotoluene	50.000	48.903	2.2	106	0.00
96		3-Chlorotoluene	50.000	44.967	10.1	99	0.00
97		4-Chlorotoluene	50.000	49.780	0.4	106	0.00
98		1,3,5-Trimethylbenzene	50.000	50.398	-0.8	104	0.00
99		tert-Butylbenzene	50.000	50.330	-0.7	106	0.00
100		1,2,4-Trimethylbenzene	50.000	50.026	-0.1	105	0.00
101		3,4-Dichlorobenzotrifluorid	50.000	47.418	5.2	105	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5387.D
Acq On : 30 Aug 2024 07:42 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 30 07:58:04 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
102		sec-Butylbenzene	50.000	51.467	-2.9	107	0.00
103		p-Isopropyltoluene	50.000	50.561	-1.1	102	0.00
104	P	1,3-Dclbenz	50.000	49.222	1.6	104	0.00
105	P	1,4-Dclbenz	50.000	49.414	1.2	104	0.00
106		2,4-Dichlorobenzotrifluorid	50.000	48.958	2.1	106	0.00
107		2,5-Dichlorobenzotrifluorid	50.000	48.051	3.9	104	0.00
108		n-Butylbenzene	50.000	50.865	-1.7	104	0.00
109	P	1,2-Dclbenz	50.000	49.165	1.7	103	0.00
110	P	1,2-Dibromo-3-chloropropane	50.000	40.048	19.9	74	0.00
111		Trielution Dichlorotoluene	150.000	138.703	7.5	97	0.00
112		1,3,5-Trichlorobenzene	50.000	46.520	7.0	99	0.00
113		Coelution Dichlorotoluene	100.000	93.832	6.2	98	0.00
114	P	1,2,4-Tcbenzene	50.000	50.174	-0.3	102	0.00
115		Hexachlorobt	50.000	55.161	-10.3	116	0.00
116		Naphthalen	50.000	40.911	18.2	79	0.00
117		1,2,3-Tclbenzene	50.000	47.612	4.8	98	0.00
118		2,4,5-Trichlorotoluene	50.000	43.883	12.2	91	0.00
119		2,3,6-Trichlorotoluene	50.000	44.692	10.6	89	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5387.D
Acq On : 30 Aug 2024 07:42 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 30 07:58:04 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.989	168	380460	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.172	114	629204	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.573	117	567778	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	272758	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.830	113	205283	52.30	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 104.60%			
47) surr1,1,2-dichloroetha...	5.416	65	268242	50.00	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.00%			
64) SURR3,Toluene-d8	8.049	98	731869	50.81	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.62%			
69) SURR2,BFB	10.659	95	286100	50.52	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.04%			
Target Compounds						Qvalue
2) Chlorodifluoromethane	1.081	51	232702	44.945	ug/L	97
3) Dichlorodifluoromethane	1.075	85	213800	43.677	ug/L	98
4) Chloromethane	1.191	50	255516	48.671	ug/L	96
5) Vinyl Chloride	1.264	62	234064	44.176	ug/L	99
6) Bromomethane	1.465	94	115888	59.301	ug/L	96
7) Chloroethane	1.538	64	148931	44.537	ug/L	98
8) Freon 21	1.678	67	329072	47.386	ug/L	100
9) Trichlorofluoromethane	1.715	101	310846	54.274	ug/L	98
10) Diethyl Ether	1.934	59	197184	47.832	ug/L	97
11) Freon 123a	1.941	67	175303	45.368	ug/L	91
12) Freon 123	1.989	83	226939	48.137	ug/L	99
13) Acrolein	2.026	56	323791	532.935	ug/L	99
14) 1,1-Diclethene	2.105	96	165856	51.430	ug/L	99
15) Freon 113	2.111	101	176168	52.376	ug/L	92
16) Acetone	2.154	43	111135	36.494	ug/L	99
17) 2-Propanol	2.282	45	344495	573.620	ug/L	99
18) Iodomethane	2.227	142	291196	57.906	ug/L	96
19) Carbon Disulfide	2.282	76	455335	57.349	ug/L	99
20) Acetonitrile/Allyl Chl...	2.410	41	448558	279.932	ug/L	94
21) Methyl Acetate	2.434	43	192616	36.248	ug/L	99
22) Methylene Chloride	2.520	84	179359	50.478	ug/L	97
23) TBA	2.648	59	632391	568.113	ug/L	99
24) Acrylonitrile	2.758	53	543052	195.357	ug/L	100
25) Methyl-t-Butyl Ether	2.794	73	579670	46.855	ug/L	97
26) trans-1,2-Dichloroethene	2.788	96	180515	51.028	ug/L	95
27) 1,1-Diclethane	3.245	63	366765	50.275	ug/L	100
28) Vinyl Acetate	3.337	86	46099	64.865	ug/L #	91
29) DIPE	3.361	45	575993	44.368	ug/L	98
30) 2-Chloro-1,3-Butadiene	3.355	53	393921	53.231	ug/L	98
31) ETBE	3.843	59	609345	44.475	ug/L	98
32) 2,2-Dichloropropane	4.007	77	282151	58.829	ug/L	98
33) cis-1,2-Dichloroethene	4.019	96	200861	48.806	ug/L	95
34) 2-Butanone	4.074	43	136181	37.477	ug/L	99
35) Propionitrile	4.154	54	221679	178.570	ug/L	98
36) Bromochloromethane	4.379	130	133826	49.352	ug/L	97
37) Methacrylonitrile	4.397	67	94598	40.685	ug/L	99
38) Tetrahydrofuran	4.477	42	79753	34.411	ug/L	100
39) Chloroform	4.550	83	331105	48.825	ug/L	97
40) 1,1,1-Trichloroethane	4.830	97	306647	51.531	ug/L	97

1st FNJ 08/30/24
2nd WR 09/04/24

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Quant Time: Aug 30 07:58:04 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.763	73	470858	44.540	ug/L	96
43) Cyclohexane	4.916	41	173468	46.826	ug/L	95
45) Carbontetrachloride	5.129	117	266820	50.917	ug/L	98
46) 1,1-Dichloropropene	5.147	75	238467	51.610	ug/L	99
48) Benzene	5.495	78	698340	51.893	ug/L	98
49) 1,2-Dichloroethane	5.550	62	322302	48.037	ug/L	99
50) Iso-Butyl Alcohol	5.562	43	219693	671.198	ug/L	99
51) n-Heptane	6.025	43	274809	54.520	ug/L	99
52) 1-Butanol	6.586	56	363568	1600.128	ug/L	99
53) Trichloroethene	6.507	130	202795	50.823	ug/L	99
54) Methylcyclohexane	6.745	55	289770	51.042	ug/L	99
55) 1,2-Diclpropane	6.806	63	207179	50.856	ug/L	98
56) Dibromomethane	6.952	93	124600	48.772	ug/L	93
57) 1,4-Dioxane	7.031	88	59851	685.897	ug/L	96
58) Methyl Methacrylate	7.056	69	149181	43.825	ug/L	97
59) Bromodichloromethane	7.190	83	246455	51.351	ug/L	100
60) 2-Nitropropane	7.494	41	137649	80.247	ug/L	97
61) 2-Chloroethylvinyl Ether	7.622	63	21600	16.416	ug/L	95
62) cis-1,3-Dichloropropene	7.751	75	289454	52.955	ug/L	98
63) 4-Methyl-2-pentanone	7.976	43	252370	39.546	ug/L	100
65) Toluene	8.122	91	771780	50.518	ug/L	100
66) trans-1,3-Dichloropropene	8.409	75	276880	52.742	ug/L	98
67) Ethyl Methacrylate	8.561	69	274571	47.230	ug/L	95
68) 1,1,2-Trichloroethane	8.598	97	180595	49.054	ug/L	100
71) Tetrachloroethene	8.726	164	145960	52.133	ug/L	98
72) 2-Hexanone	8.909	43	188019	37.571	ug/L	97
73) 1,3-Dichloropropane	8.769	76	296411	48.389	ug/L	99
74) Dibromochloromethane	9.000	129	206772	53.419	ug/L	100
75) N-Butyl Acetate	9.067	43	367008	38.246	ug/L	100
76) 1,2-Dibromoethane	9.092	107	195197	48.154	ug/L	99
77) 3-Chlorobenzotrifluoride	9.628	180	221632	48.041	ug/L	99
78) Chlorobenzene	9.598	112	514706	48.378	ug/L	99
79) 4-Chlorobenzotrifluoride	9.683	180	199116	47.080	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.689	131	205754	53.674	ug/L	97
81) Ethylbenzene	9.726	106	278860	52.129	ug/L	100
82) (m+p)Xylene	9.842	106	676082	102.668	ug/L	98
83) o-Xylene	10.201	106	338073	51.546	ug/L	95
84) Styrene	10.214	104	575610	52.174	ug/L	99
85) Bromoform	10.366	173	119961	51.809	ug/L	98
86) 2-Chlorobenzotrifluoride	10.451	180	215636	46.130	ug/L	97
87) Isopropylbenzene	10.537	105	820957	48.824	ug/L	99
88) Cyclohexanone	10.604	55	1096165	882.420	ug/L	98
89) trans-1,4-Dichloro-2-B...	10.860	53	95483	40.240	ug/L	96
91) 1,1,2,2-Tetrachloroethane	10.811	83	246855	43.243	ug/L	99
92) Bromobenzene	10.780	156	212914	48.934	ug/L	92
93) 1,2,3-Trichloropropane	10.835	110	85487	41.297	ug/L	99
94) n-Propylbenzene	10.896	91	1010225	51.111	ug/L	99
95) 2-Chlorotoluene	10.957	91	607866	48.903	ug/L	98
96) 3-Chlorotoluene	11.012	91	565507	44.967	ug/L	97
97) 4-Chlorotoluene	11.049	91	711726	49.780	ug/L	98
98) 1,3,5-Trimethylbenzene	11.055	105	754429	50.398	ug/L	99
99) tert-Butylbenzene	11.323	119	643013	50.330	ug/L	99
100) 1,2,4-Trimethylbenzene	11.366	105	759185	50.026	ug/L	98
101) 3,4-Dichlorobenzotrifl...	11.433	214	156265	47.418	ug/L	94
102) sec-Butylbenzene	11.506	105	920683	51.467	ug/L	99
103) p-Isopropyltoluene	11.634	119	795423	50.561	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5387.D
Acq On : 30 Aug 2024 07:42 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 30 07:58:04 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

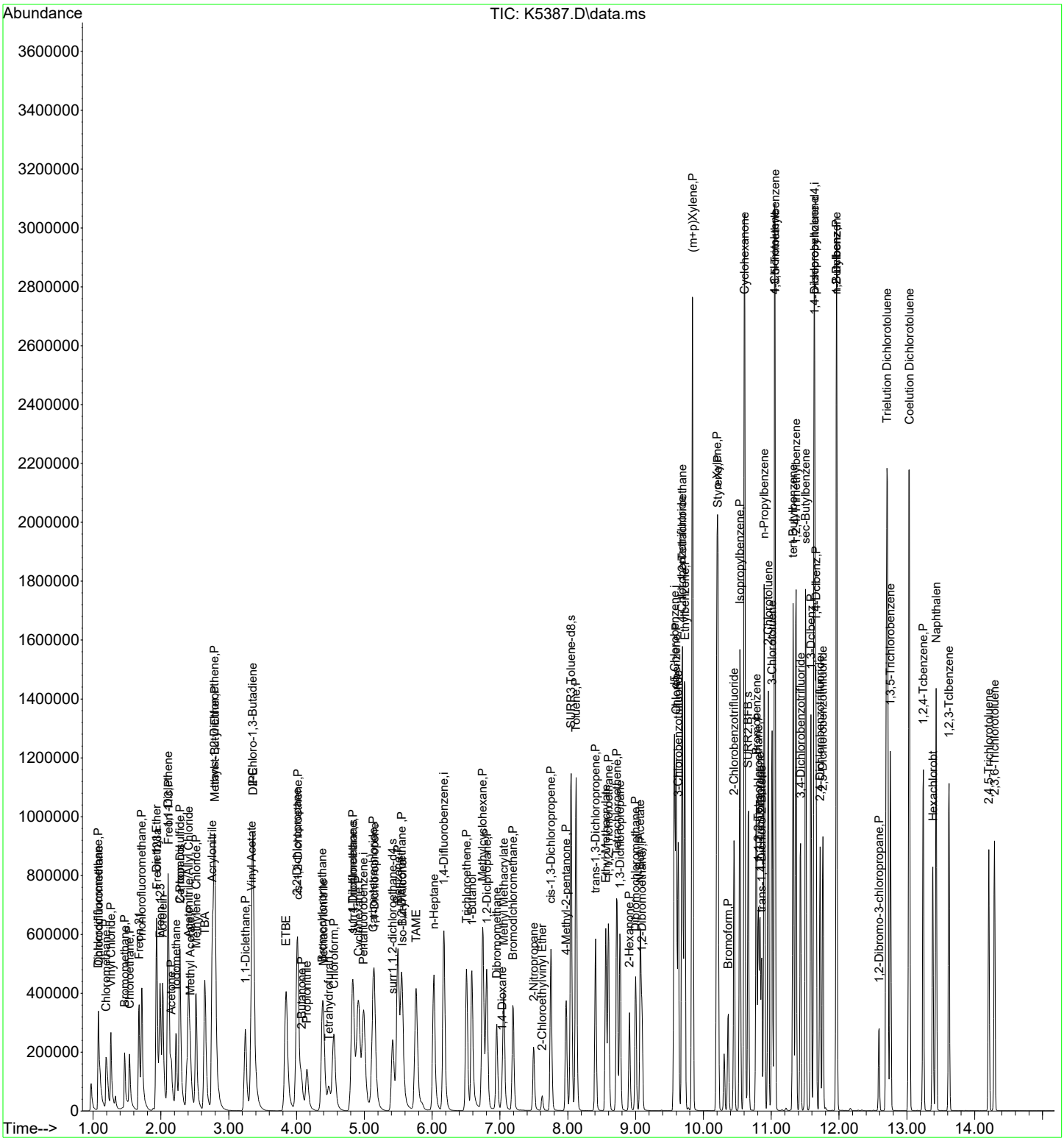
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.585	146	410184	49.222	ug/L	99
105) 1,4-Dclbenz	11.658	146	415768	49.414	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.719	214	142071	48.958	ug/L	97
107) 2,5-Dichlorobenzotrifl...	11.762	214	155432	48.051	ug/L	98
108) n-Butylbenzene	11.963	91	696865	50.865	ug/L	99
109) 1,2-Dclbenz	11.963	146	404507	49.165	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.591	157	57053	40.048	ug/L	94
111) Trielution Dichlorotol...	12.707	125	1075641	138.703	ug/L	98
112) 1,3,5-Trichlorobenzene	12.756	180	250094	46.520	ug/L	98
113) Coelution Dichlorotoluene	13.036	125	782716	93.832	ug/L	95
114) 1,2,4-Tcbenzene	13.243	180	261541	50.174	ug/L	98
115) Hexachlorobt	13.384	225	105847	55.161	ug/L	98
116) Naphthalen	13.432	128	806470	40.911	ug/L	99
117) 1,2,3-Tclbenzene	13.621	180	244584	47.612	ug/L	96
118) 2,4,5-Trichlorotoluene	14.207	159	179571	43.883	ug/L	99
119) 2,3,6-Trichlorotoluene	14.292	159	169203	44.692	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083024\
Data File : K5387.D
Acq On : 30 Aug 2024 07:42 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 3 Sample Multiplier: 1

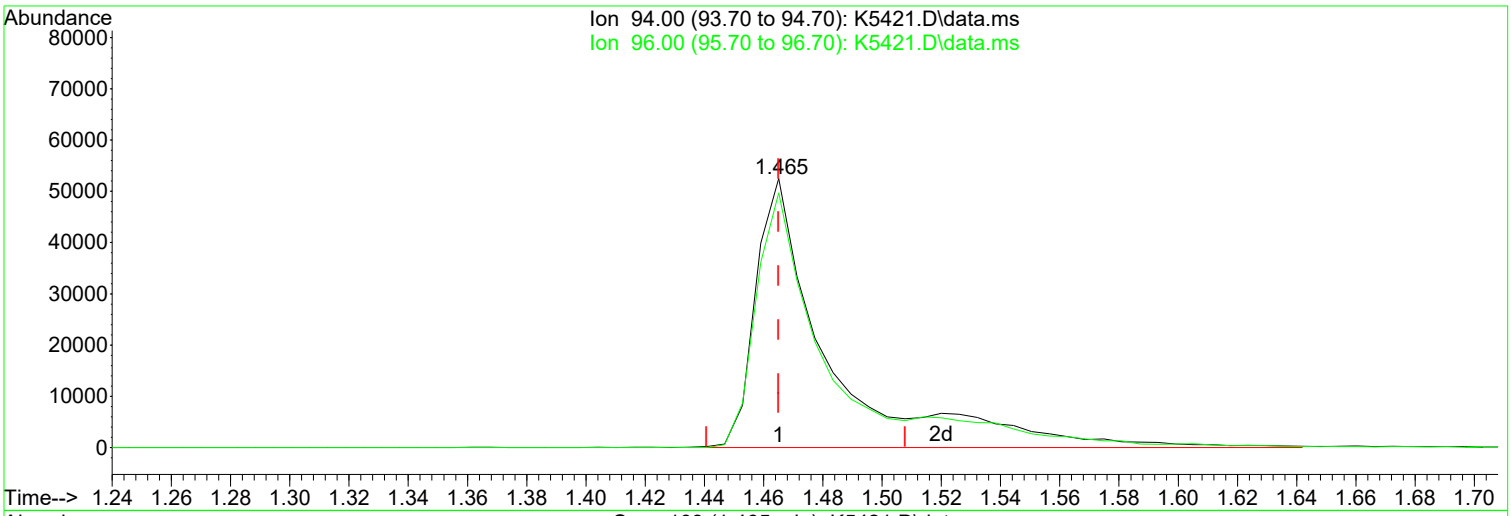
Quant Time: Aug 30 07:58:04 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

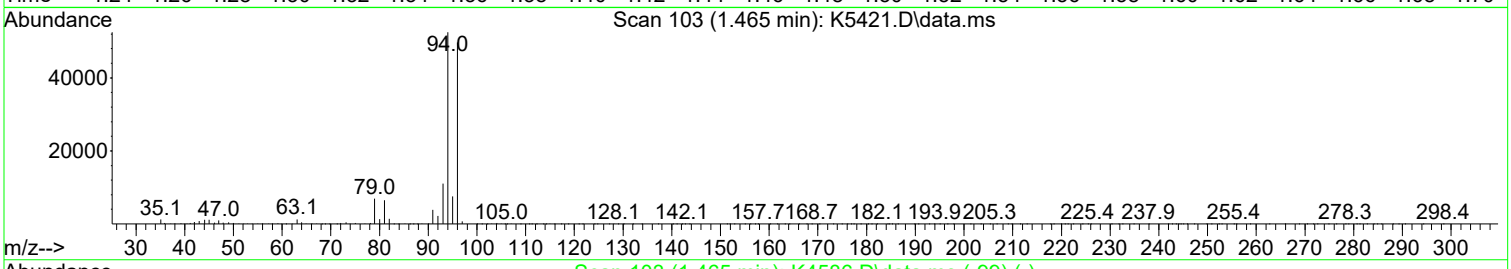


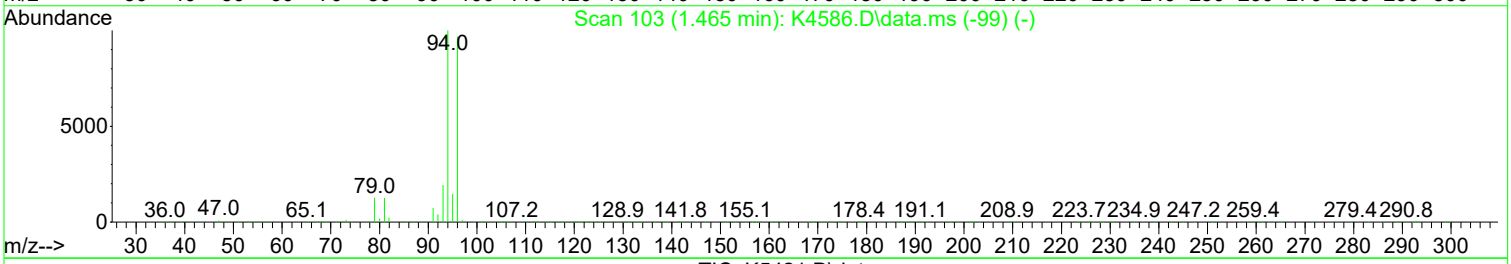
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5421.D
Acq On : 31 Aug 2024 11:00 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 31 11:16:19 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5421.D\data.ms

(6) Bromomethane (P)

1.465min (+ 0.000) 46.98 ug/L m

response 92298

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	96.60	94.71
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

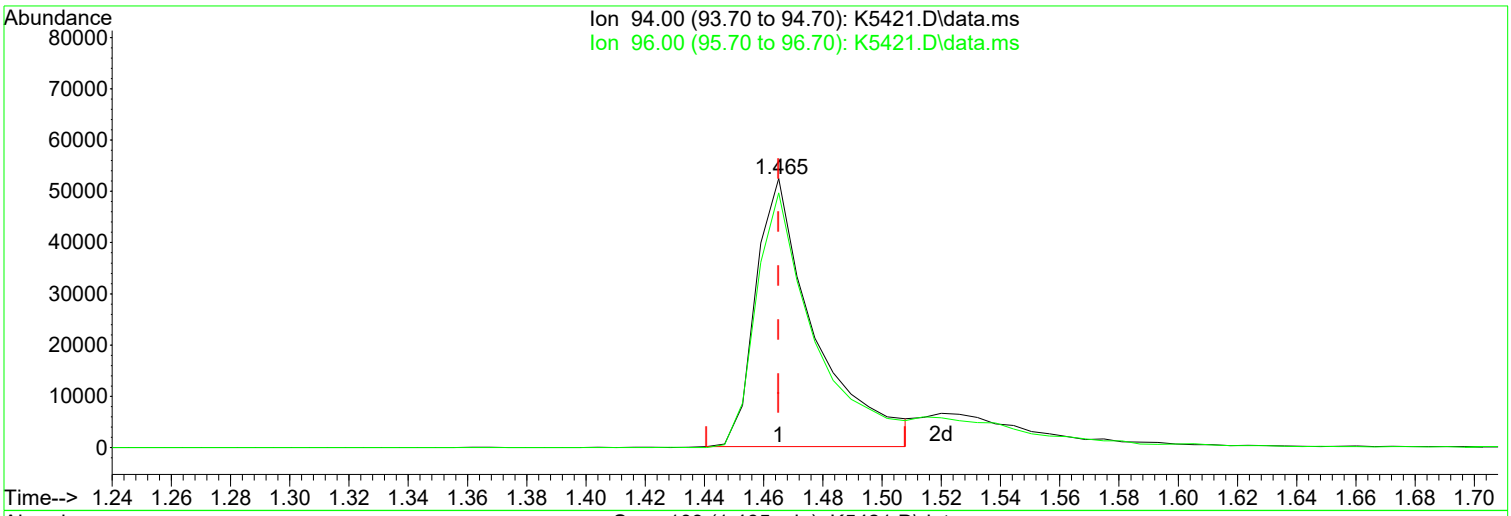
Poor integration.

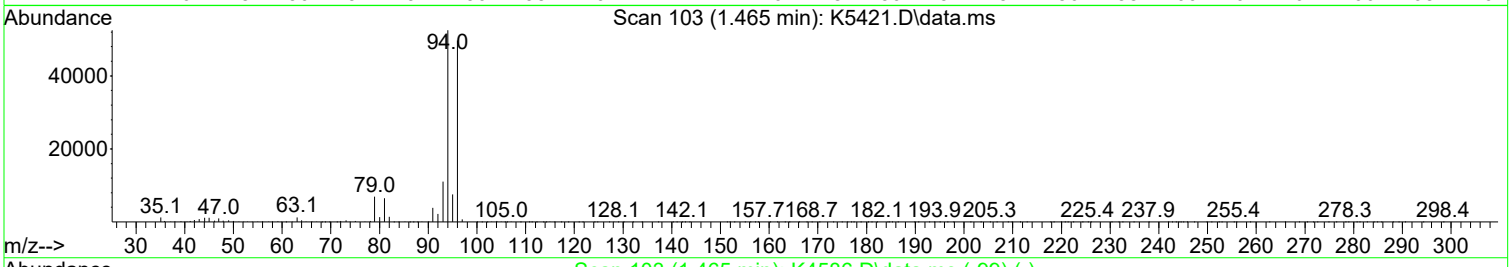
08/31/24

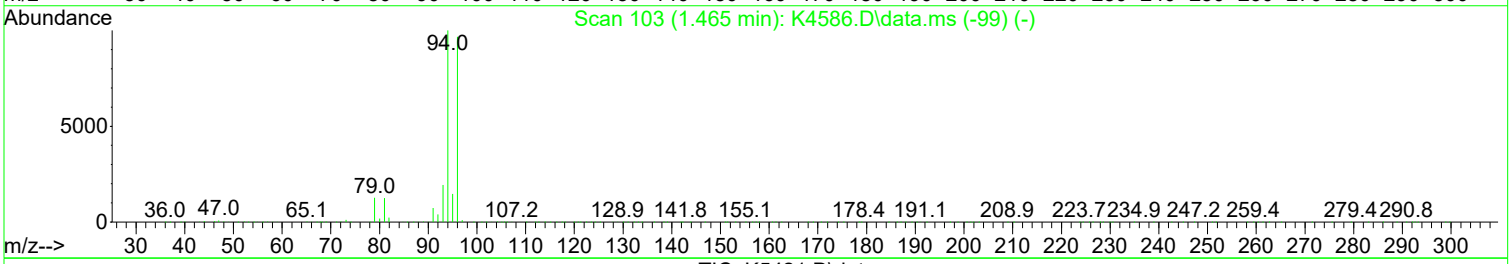
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5421.D
Acq On : 31 Aug 2024 11:00 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 31 11:16:19 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration







TIC: K5421.D\data.ms

(6) Bromomethane (P)

1.465min (+ 0.000) 36.04 ug/L

response 72644

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	96.60	94.71
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

08/31/24

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5421.D
Acq On : 31 Aug 2024 11:00 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 31 11:16:19 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	i	Pentafluorobenzene	50.000	50.000	0.0	102	0.00
2		Chlorodifluoromethane	50.000	49.716	0.6	103	0.00
3	P	Dichlorodifluoromethane	50.000	45.005	10.0	89	0.00
4	P	Chloromethane	50.000	50.664	-1.3	107	-0.02
5	P	Vinyl Chloride	50.000	46.571	6.9	99	0.00
6	P	Bromomethane	50.000	46.979	6.0	95	0.00
7	P	Chloroethane	50.000	46.054	7.9	92	0.00
8		Freon 21	50.000	50.648	-1.3	107	0.00
9	P	Trichlorofluoromethane	50.000	55.838	-11.7	115	0.00
10		Diethyl Ether	50.000	52.870	-5.7	113	0.00
11		Freon 123a	50.000	51.495	-3.0	111	0.00
12		Freon 123	50.000	53.894	-7.8	112	0.00
13		Acrolein	250.000	607.823	-143.1#	235	0.00
14		1,1-Diclethene	50.000	54.546	-9.1	115	0.00
15	P	Freon 113	50.000	54.317	-8.6	116	0.00
16	P	Acetone	50.000	32.400	35.2#	65	0.00
17		2-Propanol	1000.000	775.500	22.4#	79	0.00
18		Iodomethane	50.000	52.992	-6.0	104	0.00
19	P	Carbon Disulfide	50.000	60.473	-20.9#	121	0.00
20		Acetonitrile/Allyl Chloride	300.000	313.552	-4.5	110	0.00
21	P	Methyl Acetate	50.000	43.135	13.7	89	0.00
22	P	Methylene Chloride	50.000	53.675	-7.3	109	0.00
23		TBA	1000.000	785.191	21.5#	79	0.00
24		Acrylonitrile	250.000	230.389	7.8	95	0.00
25	P	Methyl-t-Butyl Ether	50.000	51.697	-3.4	109	0.00
26	P	trans-1,2-Dichloroethene	50.000	54.273	-8.5	114	0.00
27	P	1,1-Diclethane	50.000	53.322	-6.6	111	0.00
28		Vinyl Acetate	50.000	72.859	-45.7#	157	0.00
29		DIPE	50.000	47.793	4.4	102	0.00
30		2-Chloro-1,3-Butadiene	50.000	54.574	-9.1	112	0.00
31		ETBE	50.000	47.853	4.3	101	0.00
32		2,2-Dichloropropane	50.000	62.753	-25.5#	119	0.00
33	P	cis-1,2-Dichloroethene	50.000	51.851	-3.7	110	0.00
34	P	2-Butanone	50.000	41.297	17.4	83	-0.01
35		Propionitrile	250.000	219.312	12.3	91	0.00
36		Bromochloromethane	50.000	52.745	-5.5	111	0.00
37		Methacrylonitrile	50.000	47.853	4.3	98	0.00
38		Tetrahydrofuran	50.000	42.368	15.3	88	0.00
39	P	Chloroform	50.000	51.642	-3.3	112	0.00
40	P	1,1,1-Trichloroethane	50.000	53.639	-7.3	110	0.00
41		TAME	50.000	47.907	4.2	101	0.00
42	i	1,4-Difluorobenzene	50.000	50.000	0.0	99	0.00
43	P	Cyclohexane	50.000	51.208	-2.4	110	0.00
44	s	surr4,Dibrflmethane	50.000	52.230	-4.5	101	0.00
45	P	Carbontetrachloride	50.000	52.964	-5.9	110	0.00
46		1,1-Dichloropropene	50.000	53.531	-7.1	114	0.00
47	s	surr1,1,2-dichloroethane-d4	50.000	50.607	-1.2	98	0.00
48	P	Benzene	50.000	54.219	-8.4	113	0.00
49	P	1,2-Dichloroethane	50.000	50.942	-1.9	107	0.00
50		Iso-Butyl Alcohol	1000.000	911.055	8.9	85	0.00
51		n-Heptane	50.000	55.434	-10.9	119	0.00

1st FJ 08/31/24
2nd AM 09/03/24

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5421.D
Acq On : 31 Aug 2024 11:00 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 31 11:16:19 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52		1-Butanol	2500.000	2068.815	17.2	75	0.00
53	P	Trichloroethene	50.000	52.591	-5.2	107	0.00
54	P	Methylcyclohexane	50.000	55.059	-10.1	113	0.00
55	P	1,2-Diclpropane	50.000	54.323	-8.6	112	0.00
56		Dibromomethane	50.000	52.631	-5.3	106	0.00
57		1,4-Dioxane	1000.000	885.058	11.5	88	0.00
58		Methyl Methacrylate	50.000	50.099	-0.2	100	0.00
59	P	Bromodichloromethane	50.000	54.681	-9.4	108	0.00
60		2-Nitropropane	100.000	97.548	2.5	90	0.00
61		2-Chloroethylvinyl Ether	50.000	21.783	56.4#	43	0.00
62	P	cis-1,3-Dichloropropene	50.000	57.433	-14.9	111	0.00
63	P	4-Methyl-2-pentanone	50.000	45.781	8.4	89	0.00
64	s	SURR3,Toluene-d8	50.000	51.698	-3.4	101	0.00
65	P	Toluene	50.000	52.686	-5.4	110	0.00
66	P	trans-1,3-Dichloropropene	50.000	57.595	-15.2	111	0.00
67		Ethyl Methacrylate	50.000	53.233	-6.5	105	0.00
68	P	1,1,2-Trichloroethane	50.000	52.709	-5.4	107	0.00
69	s	SURR2,BFB	50.000	51.043	-2.1	99	0.00
70	i	d5-Chlorobenzene	50.000	50.000	0.0	99	0.00
71	P	Tetrachloroethene	50.000	55.016	-10.0	115	0.00
72	P	2-Hexanone	50.000	43.466	13.1	84	0.00
73		1,3-Dichloropropane	50.000	52.018	-4.0	107	0.00
74	P	Dibromochloromethane	50.000	58.346	-16.7	109	0.00
75		N-Butyl Acetate	50.000	45.917	8.2	89	0.00
76	P	1,2-Dibromoethane	50.000	52.519	-5.0	105	0.00
77		3-Chlorobenzotrifluoride	50.000	54.298	-8.6	117	0.00
78	P	Chlorobenzene	50.000	51.236	-2.5	109	0.00
79		4-Chlorobenzotrifluoride	50.000	54.576	-9.2	118	0.00
80		1,1,1,2-Tetrachloroethane	50.000	56.570	-13.1	111	0.00
81	P	Ethylbenzene	50.000	54.184	-8.4	111	0.00
82	P	(m+p)Xylene	100.000	109.181	-9.2	110	0.00
83	P	o-Xylene	50.000	53.637	-7.3	108	0.00
84	P	Styrene	50.000	55.682	-11.4	109	0.00
85	P	Bromoform	50.000	58.010	-16.0	108	0.00
86		2-Chlorobenzotrifluoride	50.000	52.343	-4.7	113	0.00
87	P	Isopropylbenzene	50.000	50.765	-1.5	100	0.00
88		Cyclohexanone	1000.000	815.098	18.5	76	0.00
89		trans-1,4-Dichloro-2-Butene	50.000	46.526	6.9	90	0.00
90	i	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	92	0.00
91	P	1,1,2,2-Tetrachloroethane	50.000	51.409	-2.8	103	0.00
92		Bromobenzene	50.000	54.191	-8.4	110	0.00
93		1,2,3-Trichloropropane	50.000	49.871	0.3	98	0.00
94		n-Propylbenzene	50.000	55.044	-10.1	109	0.00
95		2-Chlorotoluene	50.000	53.084	-6.2	108	0.00
96		3-Chlorotoluene	50.000	50.968	-1.9	105	0.00
97		4-Chlorotoluene	50.000	54.236	-8.5	109	0.00
98		1,3,5-Trimethylbenzene	50.000	54.043	-8.1	105	0.00
99		tert-Butylbenzene	50.000	53.739	-7.5	106	0.00
100		1,2,4-Trimethylbenzene	50.000	54.311	-8.6	107	0.00
101		3,4-Dichlorobenzotrifluorid	50.000	54.403	-8.8	113	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5421.D
Acq On : 31 Aug 2024 11:00 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 31 11:16:19 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
102		sec-Butylbenzene	50.000	54.783	-9.6	108	0.00
103		p-Isopropyltoluene	50.000	54.008	-8.0	103	0.00
104	P	1,3-Dclbenz	50.000	54.269	-8.5	108	0.00
105	P	1,4-Dclbenz	50.000	54.467	-8.9	108	0.00
106		2,4-Dichlorobenzotrifluorid	50.000	56.271	-12.5	115	0.00
107		2,5-Dichlorobenzotrifluorid	50.000	54.405	-8.8	111	0.00
108		n-Butylbenzene	50.000	54.637	-9.3	105	0.00
109	P	1,2-Dclbenz	50.000	53.102	-6.2	105	0.00
110	P	1,2-Dibromo-3-chloropropane	50.000	50.169	-0.3	88	0.00
111		Trielution Dichlorotoluene	150.000	154.545	-3.0	102	0.00
112		1,3,5-Trichlorobenzene	50.000	52.661	-5.3	105	0.00
113		Coelution Dichlorotoluene	100.000	103.533	-3.5	102	0.00
114	P	1,2,4-Tcbenzene	50.000	55.716	-11.4	106	0.00
115		Hexachlorobt	50.000	57.760	-15.5	115	0.00
116		Naphthalen	50.000	48.500	3.0	89	0.00
117		1,2,3-Tclbenzene	50.000	53.584	-7.2	103	0.00
118		2,4,5-Trichlorotoluene	50.000	49.844	0.3	97	0.00
119		2,3,6-Trichlorotoluene	50.000	0.000	100.0#	0	-14.30#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5421.D
Acq On : 31 Aug 2024 11:00 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 31 11:16:19 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.989	168	371575	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.172	114	615006	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.573	117	551221	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	256641	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.830	113	200375	52.23	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 104.46%			
47) surr1,1,2-dichloroetha...	5.416	65	265363	50.61	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 101.22%			
64) SURR3,Toluene-d8	8.049	98	727818	51.70	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 103.40%			
69) SURR2,BFB	10.659	95	282537	51.04	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.08%			
Target Compounds						Qvalue
2) Chlorodifluoromethane	1.081	51	251391	49.716	ug/L	99
3) Dichlorodifluoromethane	1.075	85	215152	45.005	ug/L	99
4) Chloromethane	1.191	50	259766	50.664	ug/L	98
5) Vinyl Chloride	1.264	62	240992	46.571	ug/L	100
6) Bromomethane	1.465	94	92298m	46.979	ug/L	
7) Chloroethane	1.538	64	150407	46.054	ug/L	100
8) Freon 21	1.678	67	343514	50.648	ug/L	98
9) Trichlorofluoromethane	1.715	101	312332	55.838	ug/L	99
10) Diethyl Ether	1.935	59	212862	52.870	ug/L	99
11) Freon 123a	1.941	67	194334	51.495	ug/L	95
12) Freon 123	1.983	83	248148	53.894	ug/L	100
13) Acrolein	2.026	56	360666	607.823	ug/L	100
14) 1,1-Diclethene	2.105	96	171796	54.546	ug/L	97
15) Freon 113	2.111	101	178429	54.317	ug/L	98
16) Acetone	2.154	43	96361	32.400	ug/L	98
17) 2-Propanol	2.282	45	454860	775.500	ug/L	97
18) Iodomethane	2.221	142	260263	52.992	ug/L	95
19) Carbon Disulfide	2.276	76	468923	60.473	ug/L	99
20) Acetonitrile/Allyl Chl...	2.404	41	490698	313.552	ug/L	97
21) Methyl Acetate	2.434	43	223859	43.135	ug/L	98
22) Methylene Chloride	2.520	84	186144	53.675	ug/L	98
23) TBA	2.648	59	853618	785.191	ug/L	99
24) Acrylonitrile	2.758	53	625477	230.389	ug/L	100
25) Methyl-t-Butyl Ether	2.794	73	624631	51.697	ug/L	97
26) trans-1,2-Dichloroethene	2.782	96	187512	54.273	ug/L	94
27) 1,1-Diclethane	3.245	63	379914	53.322	ug/L	98
28) Vinyl Acetate	3.331	86	51529	72.859	ug/L	99
29) DIPE	3.355	45	605960	47.793	ug/L	86
30) 2-Chloro-1,3-Butadiene	3.355	53	394426	54.574	ug/L	95
31) ETBE	3.843	59	640308	47.853	ug/L	98
32) 2,2-Dichloropropane	4.007	77	293942	62.753	ug/L	98
33) cis-1,2-Dichloroethene	4.013	96	208410	51.851	ug/L	100
34) 2-Butanone	4.068	43	146556	41.297	ug/L	99
35) Propionitrile	4.154	54	265898	219.312	ug/L	100
36) Bromochloromethane	4.379	130	139687	52.745	ug/L	99
37) Methacrylonitrile	4.398	67	108668	47.853	ug/L	99
38) Tetrahydrofuran	4.477	42	95901	42.368	ug/L	96
39) Chloroform	4.550	83	342025	51.642	ug/L	96
40) 1,1,1-Trichloroethane	4.830	97	311734	53.639	ug/L	98

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5421.D
Acq On : 31 Aug 2024 11:00 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 31 11:16:19 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.763	73	494618	47.907	ug/L	96
43) Cyclohexane	4.910	41	185421	51.208	ug/L	95
45) Carbontetrachloride	5.123	117	271284	52.964	ug/L	97
46) 1,1-Dichloropropene	5.141	75	241765	53.531	ug/L	98
48) Benzene	5.489	78	713178	54.219	ug/L	98
49) 1,2-Dichloroethane	5.544	62	334078	50.942	ug/L	99
50) Iso-Butyl Alcohol	5.556	43	291473	911.055	ug/L	98
51) n-Heptane	6.019	43	273112	55.434	ug/L	99
52) 1-Butanol	6.586	56	468177	2068.815	ug/L	99
53) Trichloroethene	6.507	130	205117	52.591	ug/L	97
54) Methylcyclohexane	6.745	55	305526	55.059	ug/L	96
55) 1,2-Diclpropane	6.806	63	216312	54.323	ug/L	99
56) Dibromomethane	6.952	93	131425	52.631	ug/L	93
57) 1,4-Dioxane	7.031	88	75487	885.058	ug/L	93
58) Methyl Methacrylate	7.056	69	166688	50.099	ug/L	99
59) Bromodichloromethane	7.190	83	256512	54.681	ug/L	99
60) 2-Nitropropane	7.495	41	163549	97.548	ug/L	93
61) 2-Chloroethylvinyl Ether	7.623	63	28016	21.783	ug/L	91
62) cis-1,3-Dichloropropene	7.751	75	306848	57.433	ug/L	98
63) 4-Methyl-2-pentanone	7.976	43	285571	45.781	ug/L	96
65) Toluene	8.122	91	786740	52.686	ug/L	99
66) trans-1,3-Dichloropropene	8.409	75	295536	57.595	ug/L	98
67) Ethyl Methacrylate	8.561	69	302488	53.233	ug/L	97
68) 1,1,2-Trichloroethane	8.598	97	189674	52.709	ug/L	100
71) Tetrachloroethene	8.726	164	149541	55.016	ug/L	98
72) 2-Hexanone	8.909	43	211177	43.466	ug/L	97
73) 1,3-Dichloropropane	8.769	76	309351	52.018	ug/L	99
74) Dibromochloromethane	9.000	129	219259	58.346	ug/L	98
75) N-Butyl Acetate	9.067	43	427770	45.917	ug/L	99
76) 1,2-Dibromoethane	9.092	107	206681	52.519	ug/L	98
77) 3-Chlorobenzotrifluoride	9.628	180	243197	54.298	ug/L	98
78) Chlorobenzene	9.598	112	529216	51.236	ug/L	98
79) 4-Chlorobenzotrifluoride	9.683	180	224088	54.576	ug/L	98
80) 1,1,1,2-Tetrachloroethane	9.689	131	210531	56.570	ug/L	99
81) Ethylbenzene	9.726	106	281400	54.184	ug/L	98
82) (m+p)Xylene	9.836	106	698002	109.181	ug/L	98
83) o-Xylene	10.201	106	341524	53.637	ug/L	99
84) Styrene	10.214	104	596400	55.682	ug/L	99
85) Bromoform	10.366	173	131842	58.010	ug/L	99
86) 2-Chlorobenzotrifluoride	10.451	180	237543	52.343	ug/L	98
87) Isopropylbenzene	10.537	105	828703	50.765	ug/L	100
88) Cyclohexanone	10.604	55	983010	815.098	ug/L	99
89) trans-1,4-Dichloro-2-B...	10.860	53	107178	46.526	ug/L	95
91) 1,1,2,2-Tetrachloroethane	10.811	83	276131	51.409	ug/L	99
92) Bromobenzene	10.781	156	221856	54.191	ug/L	92
93) 1,2,3-Trichloropropane	10.835	110	97135	49.871	ug/L	98
94) n-Propylbenzene	10.896	91	1023665	55.044	ug/L	99
95) 2-Chlorotoluene	10.957	91	620851	53.084	ug/L	98
96) 3-Chlorotoluene	11.012	91	603103	50.968	ug/L	97
97) 4-Chlorotoluene	11.049	91	729620	54.236	ug/L	99
98) 1,3,5-Trimethylbenzene	11.055	105	761195	54.043	ug/L	97
99) tert-Butylbenzene	11.323	119	645994	53.739	ug/L	99
100) 1,2,4-Trimethylbenzene	11.366	105	775518	54.311	ug/L	98
101) 3,4-Dichlorobenzotrifl...	11.433	214	168688	54.403	ug/L	94
102) sec-Butylbenzene	11.506	105	922094	54.783	ug/L	98
103) p-Isopropyltoluene	11.634	119	799451	54.008	ug/L	98

1st FJ 08/31/24
2nd AM 09/03/24

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5421.D
Acq On : 31 Aug 2024 11:00 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

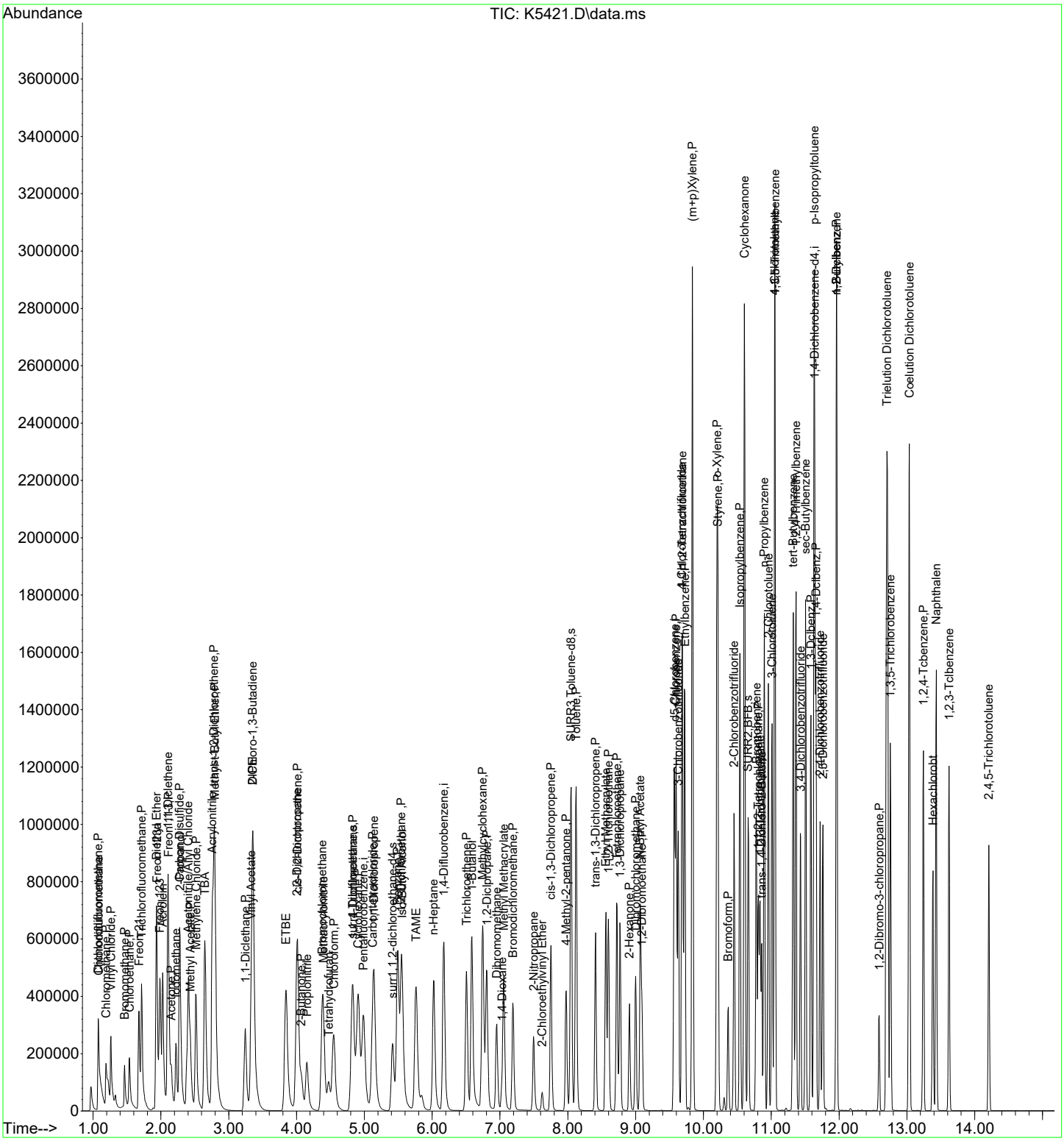
Quant Time: Aug 31 11:16:19 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.585	146	425516	54.269	ug/L	98
105) 1,4-Dclbenz	11.658	146	431203	54.467	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.719	214	153645	56.271	ug/L	97
107) 2,5-Dichlorobenzotrifl...	11.762	214	165586	54.405	ug/L	99
108) n-Butylbenzene	11.963	91	704314	54.637	ug/L	99
109) 1,2-Dclbenz	11.963	146	411086	53.102	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.591	157	68133	50.169	ug/L	91
111) Trielution Dichlorotol...	12.707	125	1127682	154.545	ug/L	98
112) 1,3,5-Trichlorobenzene	12.756	180	266381	52.661	ug/L	99
113) Coelution Dichlorotoluene	13.036	125	812605	103.533	ug/L	95
114) 1,2,4-Tcbenzene	13.243	180	273270	55.716	ug/L	98
115) Hexachlorobt	13.384	225	104285	57.760	ug/L	96
116) Naphthalen	13.432	128	899572	48.500	ug/L	100
117) 1,2,3-Tclbenzene	13.621	180	258996	53.584	ug/L	97
118) 2,4,5-Trichlorotoluene	14.207	159	191914	49.844	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSVOA17\Data\083124\
Data File : K5421.D
Acq On : 31 Aug 2024 11:00 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 31 11:16:19 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4593.D
Acq On : 31 Jul 2024 08:29 pm
Operator : K.Ruest
Sample : ICV-50
Misc : 8260/624 ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 01 10:44:11 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.995	168	362354	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.171	114	618390	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.573	117	555839	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	266115	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.830	113	199461	51.71	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 103.42%			
47) surr1,1,2-dichloroetha...	5.422	65	269682	51.15	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.30%			
64) SURR3,Toluene-d8	8.049	98	723878	51.14	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.28%			
69) SURR2,BFB	10.665	95	281328	50.55	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.10%			
Target Compounds						Qvalue
2) Chlorodifluoromethane	1.081	51	254361	51.583	ug/L	98
3) Dichlorodifluoromethane	1.075	85	285838	61.312	ug/L	98
4) Chloromethane	1.209	50	262945	52.589	ug/L	97
5) Vinyl Chloride	1.264	62	247743	49.094	ug/L	99
6) Bromomethane	1.465	94	104673	55.772	ug/L	96
7) Chloroethane	1.532	64	129098	40.535	ug/L	99
8) Freon 21	1.672	67	295095	44.616	ug/L	100
9) Trichlorofluoromethane	1.715	101	283974	52.060	ug/L	99
10) Diethyl Ether	1.934	59	194171	49.455	ug/L	98
11) Freon 123a	1.934	67	187325	50.901	ug/L	100
12) Freon 123	1.989	83	268412	59.779	ug/L	99
13) Acrolein	2.032	56	53464	92.395	ug/L	97
14) 1,1-Diclethene	2.105	96	162977	53.062	ug/L	99
15) Freon 113	2.111	101	157153	49.057	ug/L	95
16) Acetone	2.154	43	133005	45.859	ug/L	98
17) 2-Propanol	2.282	45	586680	1025.696	ug/L	97
18) Iodomethane	2.221	142	238437	49.783	ug/L	97
19) Carbon Disulfide	2.276	76	419099	55.423	ug/L	100
20) Acetonitrile/Allyl Chl...	2.404	41	497661	326.094	ug/L	99
21) Methyl Acetate	2.434	43	253668	50.122	ug/L	99
22) Methylene Chloride	2.520	84	181666	53.717	ug/L	99
23) TBA	2.654	59	1123403	1059.646	ug/L	98
24) Acrylonitrile	2.757	53	652380	246.414	ug/L	100
25) Methyl-t-Butyl Ether	2.800	73	600094	50.930	ug/L	97
26) trans-1,2-Dichloroethene	2.782	96	170955	50.740	ug/L	97
27) 1,1-Diclethane	3.245	63	362881	52.228	ug/L	97
28) Vinyl Acetate	3.337	86	30619	47.230	ug/L #	60
29) DIPE	3.361	45	634841	51.345	ug/L	96
30) 2-Chloro-1,3-Butadiene	3.355	53	335772	47.641	ug/L	94
31) ETBE	3.849	59	698640	53.541	ug/L	100
32) 2,2-Dichloropropane	4.007	77	264057	57.808	ug/L	99
33) cis-1,2-Dichloroethene	4.019	96	198707	50.695	ug/L	98
34) 2-Butanone	4.074	43	175855	50.813	ug/L	99
35) Propionitrile	4.160	54	294216	248.843	ug/L	99
36) Bromochloromethane	4.385	130	133617	51.737	ug/L	99
37) Methacrylonitrile	4.397	67	112229	50.679	ug/L	97
38) Tetrahydrofuran	4.477	42	105841	47.949	ug/L	93
39) Chloroform	4.550	83	319609	49.485	ug/L	98
40) 1,1,1-Trichloroethane	4.830	97	300338	52.993	ug/L	98

1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4593.D
Acq On : 31 Jul 2024 08:29 pm
Operator : K.Ruest
Sample : ICV-50
Misc : 8260/624 ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 01 10:44:11 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.763	73	546637	54.292	ug/L	98
43) Cyclohexane	4.916	41	172497	47.378	ug/L	97
45) Carbontetrachloride	5.129	117	260262	50.534	ug/L	96
46) 1,1-Dichloropropene	5.147	75	217246	47.839	ug/L	99
48) Benzene	5.495	78	669832	50.645	ug/L	99
49) 1,2-Dichloroethane	5.550	62	319840	48.504	ug/L	98
50) Iso-Butyl Alcohol	5.562	43	348955	1084.758	ug/L	98
51) n-Heptane	6.025	43	242570	48.966	ug/L	98
52) 1-Butanol	6.586	56	629944	2704.955	ug/L	99
53) Trichloroethene	6.513	130	199092	50.767	ug/L	97
54) Methylcyclohexane	6.751	55	273967	49.102	ug/L	97
55) 1,2-Diclpropane	6.805	63	184272	46.024	ug/L	99
56) Dibromomethane	6.952	93	128089	51.014	ug/L	98
57) 1,4-Dioxane	7.031	88	86322	1006.556	ug/L	97
58) Methyl Methacrylate	7.062	69	174921	52.286	ug/L	100
59) Bromodichloromethane	7.196	83	247455	52.461	ug/L	100
60) 2-Nitropropane	7.500	41	181763	107.818	ug/L	98
61) 2-Chloroethylvinyl Ether	7.628	63	3107	2.403	ug/L	97
62) cis-1,3-Dichloropropene	7.757	75	297301	55.341	ug/L	99
63) 4-Methyl-2-pentanone	7.976	43	332271	52.976	ug/L	100
65) Toluene	8.122	91	744408	49.578	ug/L	99
66) trans-1,3-Dichloropropene	8.409	75	290050	56.217	ug/L	99
67) Ethyl Methacrylate	8.561	69	297155	52.009	ug/L	99
68) 1,1,2-Trichloroethane	8.604	97	184216	50.913	ug/L	99
71) Tetrachloroethene	8.726	164	139114	50.755	ug/L	98
72) 2-Hexanone	8.909	43	255071	52.064	ug/L	100
73) 1,3-Dichloropropane	8.775	76	295018	49.196	ug/L	97
74) Dibromochloromethane	9.000	129	209157	55.196	ug/L	98
75) N-Butyl Acetate	9.073	43	469831	50.013	ug/L	99
76) 1,2-Dibromoethane	9.098	107	204165	51.448	ug/L	99
77) 3-Chlorobenzotrifluoride	9.634	180	230024	50.931	ug/L	98
78) Chlorobenzene	9.598	112	495589	47.582	ug/L	97
79) 4-Chlorobenzotrifluoride	9.689	180	209501	50.600	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.695	131	200970	53.552	ug/L	99
81) Ethylbenzene	9.726	106	265026	50.607	ug/L	99
82) (m+p)Xylene	9.842	106	660474	102.452	ug/L	98
83) o-Xylene	10.201	106	328069	51.096	ug/L	96
84) Styrene	10.213	104	565193	52.330	ug/L	97
85) Bromoform	10.366	173	136588	59.449	ug/L	98
86) 2-Chlorobenzotrifluoride	10.457	180	226120	49.412	ug/L	99
87) Isopropylbenzene	10.543	105	831180	50.493	ug/L	99
88) Cyclohexanone	10.610	55	1329518	1093.259	ug/L	99
89) trans-1,4-Dichloro-2-B...	10.860	53	107448	46.256	ug/L	99
91) 1,1,2,2-Tetrachloroethane	10.811	83	278726	50.044	ug/L	99
92) Bromobenzene	10.780	156	208064	49.013	ug/L	100
93) 1,2,3-Trichloropropane	10.835	110	101294	50.155	ug/L	99
94) n-Propylbenzene	10.902	91	969181	50.259	ug/L	100
95) 2-Chlorotoluene	10.957	91	585360	48.268	ug/L	100
96) 3-Chlorotoluene	11.012	91	621740	50.673	ug/L	99
97) 4-Chlorotoluene	11.055	91	690622	49.510	ug/L	100
98) 1,3,5-Trimethylbenzene	11.055	105	736097	50.401	ug/L	99
99) tert-Butylbenzene	11.329	119	644729	51.724	ug/L	100
100) 1,2,4-Trimethylbenzene	11.366	105	742271	50.132	ug/L	100
101) 3,4-Dichlorobenzotrifl...	11.433	214	157590	49.014	ug/L	96
102) sec-Butylbenzene	11.512	105	897917	51.447	ug/L	100
103) p-Isopropyltoluene	11.634	119	806265	52.529	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4593.D
Acq On : 31 Jul 2024 08:29 pm
Operator : K.Ruest
Sample : ICV-50
Misc : 8260/624 ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 01 10:44:11 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

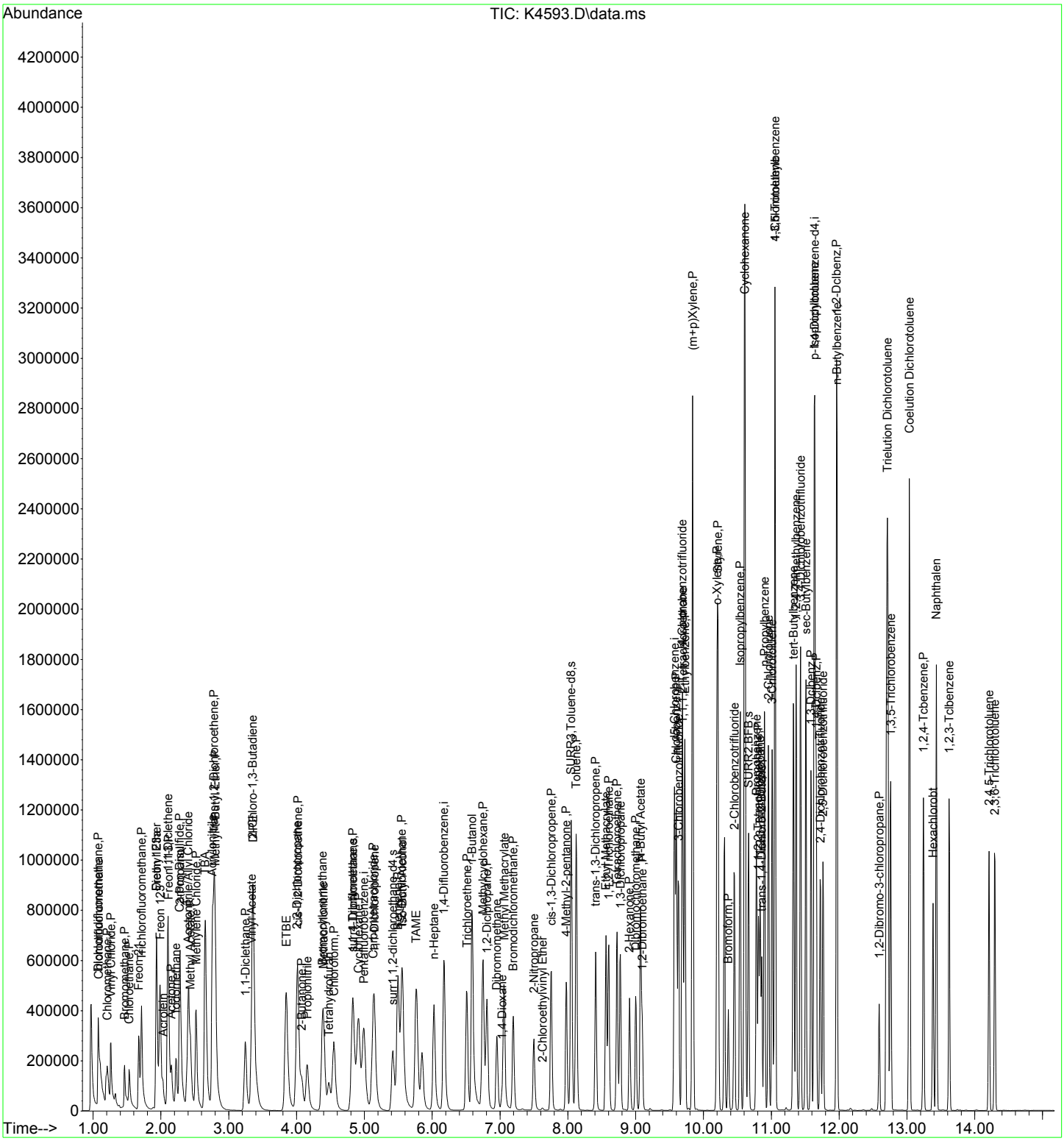
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.585	146	409521	50.370	ug/L	100
105) 1,4-Dclbenz	11.664	146	417703	50.883	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.725	214	144713	51.113	ug/L	95
107) 2,5-Dichlorobenzotrifl...	11.762	214	160965	51.004	ug/L	96
108) n-Butylbenzene	11.969	91	713353	53.368	ug/L	99
109) 1,2-Dclbenz	11.963	146	403148	50.223	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.591	157	78852	55.614	ug/L	98
111) Trielution Dichlorotol...	12.713	125	1159279	153.219	ug/L	99
112) 1,3,5-Trichlorobenzene	12.762	180	265440	50.607	ug/L	98
113) Coelution Dichlorotoluene	13.036	125	845684	103.912	ug/L	98
114) 1,2,4-Tcbenzene	13.243	180	265667	52.238	ug/L	96
115) Hexachlorobt	13.384	225	97692	52.182	ug/L	98
116) Naphthalen	13.432	128	1014112	52.729	ug/L	100
117) 1,2,3-Tclbenzene	13.621	180	259743	51.825	ug/L	97
118) 2,4,5-Trichlorotoluene	14.213	159	207742	52.034	ug/L	98
119) 2,3,6-Trichlorotoluene	14.298	159	196191	53.114	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4593.D
Acq On : 31 Jul 2024 08:29 pm
Operator : K.Ruest
Sample : ICV-50
Misc : 8260/624 ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 01 10:44:11 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

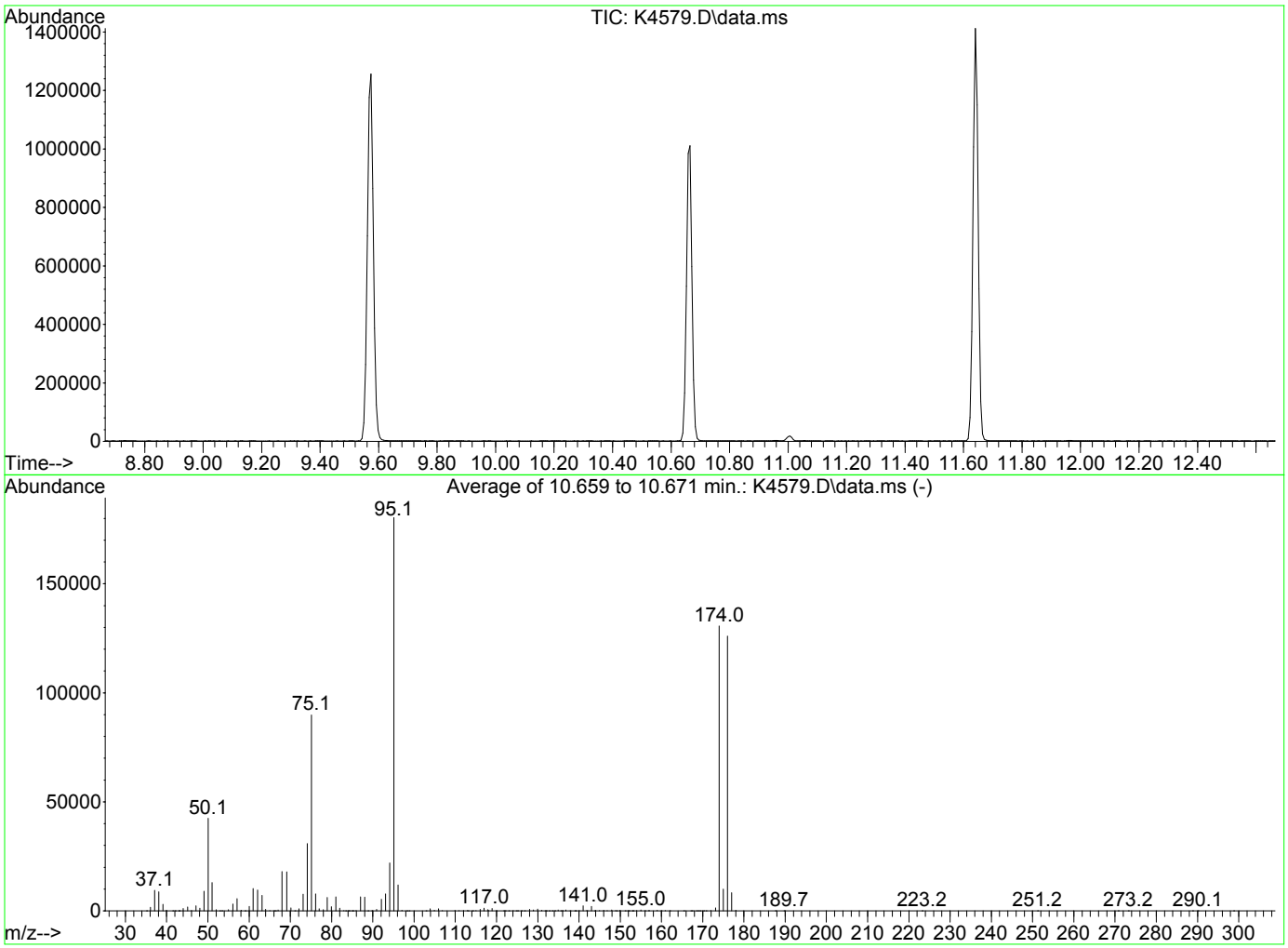


1st 07/31/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4579.D
Acq On : 31 Jul 2024 02:43 pm
Operator : K.Ruest
Sample : TUNE
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Title : MS#17 - 8260 WATERS 5mL Purge
Last Update : Wed Jul 03 10:03:49 2024



AutoFind: Scans 1611, 1612, 1613; Background Corrected with Scan 1604

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.5	42427	PASS
75	95	30	80	49.8	89888	PASS
95	95	100	100	100.0	180352	PASS
96	95	5	9	6.6	11833	PASS
173	174	0.00	2	1.0	1345	PASS
174	95	50	120	72.4	130624	PASS
175	174	5	9	7.6	9934	PASS
176	174	95	101	96.4	125981	PASS
177	176	5	9	6.6	8308	PASS

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4580.D
Acq On : 31 Jul 2024 03:07 pm
Operator : K.Ruest
Sample : IBLK
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 01 11:42:49 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration

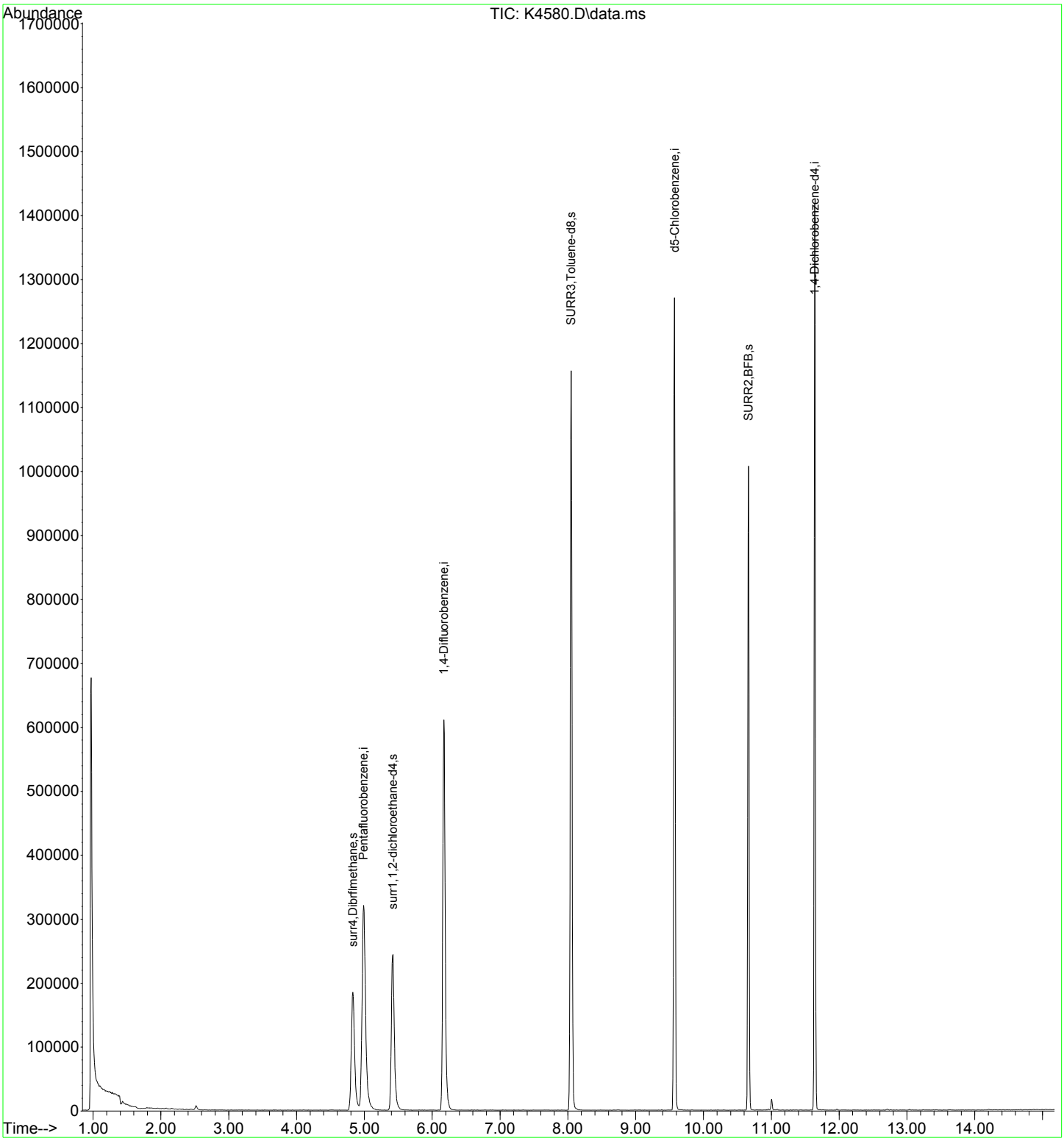
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.989	168	364983	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.171	114	621162	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.573	117	554612	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	251321	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.830	113	195407	50.43	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 100.86%			
47) surr1,1,2-dichloroetha...	5.422	65	277742	52.44	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 104.88%			
64) SURR3,Toluene-d8	8.049	98	721692	50.76	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.52%			
69) SURR2,BFB	10.665	95	268211	47.97	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 95.94%			
Target Compounds						Qvalue
22) Methylene Chloride	2.520	84	2872	Below Cal	#	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

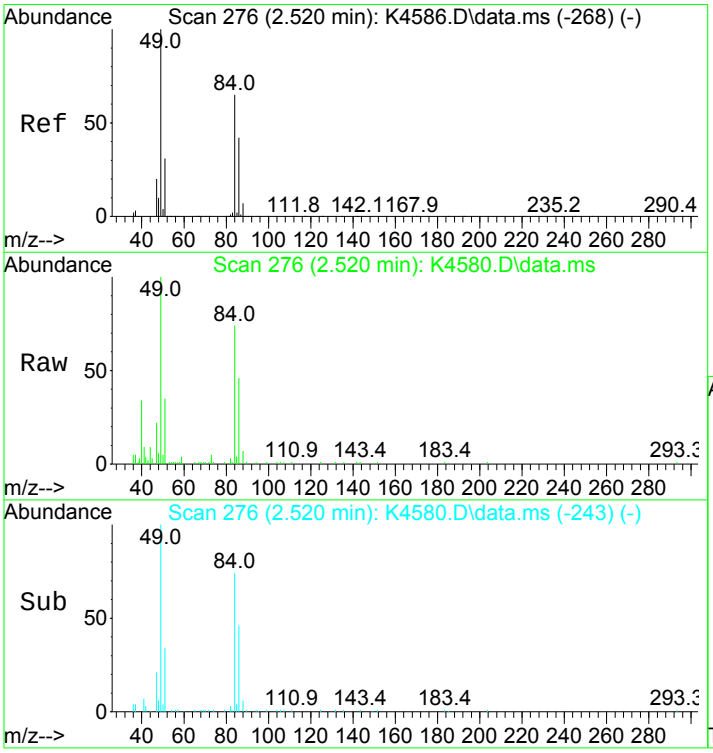
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4580.D
Acq On : 31 Jul 2024 03:07 pm
Operator : K.Ruest
Sample : IBLK
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 01 11:42:49 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Thu Aug 01 10:04:01 2024
Response via : Initial Calibration



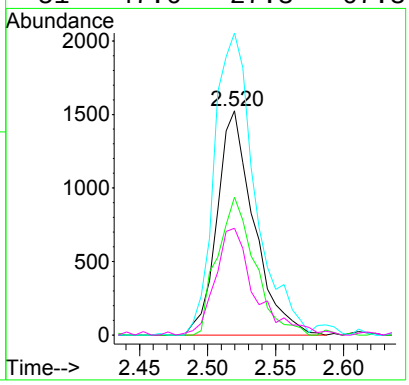
1st 08/01/24
2nd 08/01/24



#22
Methylene Chloride
Concen: Below Cal
RT: 2.520 min Scan# 276
Delta R.T. 0.001 min
Lab File: K4580.D
Acq: 31 Jul 2024 03:07 pm

Tgt Ion: 84 Resp: 2872

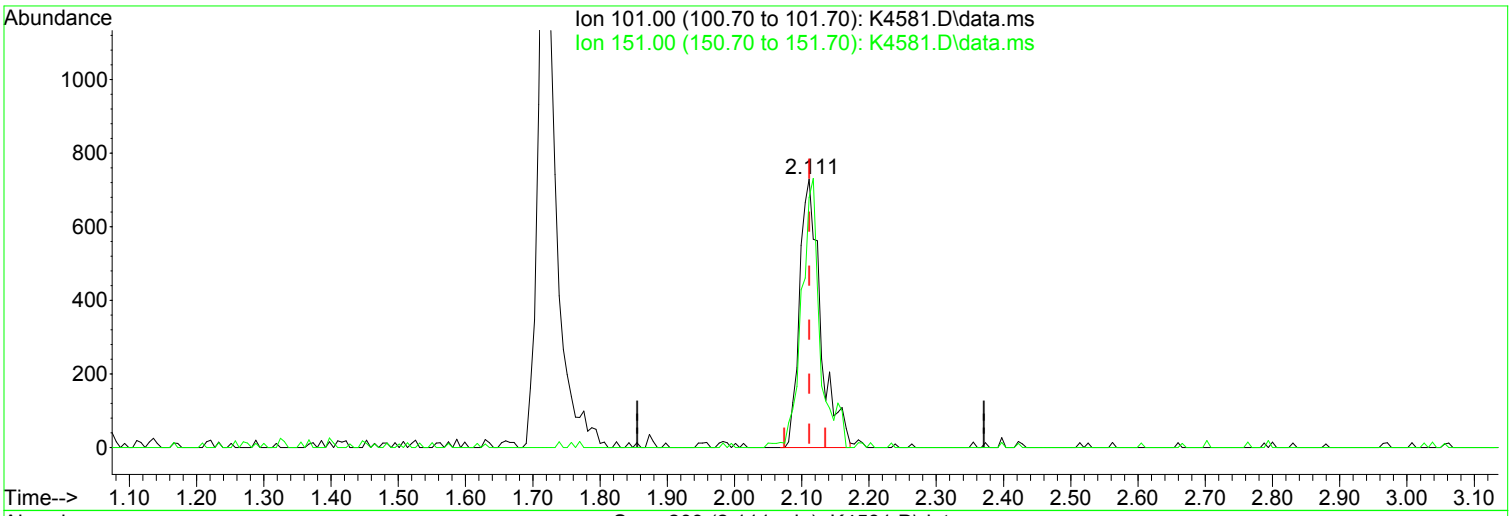
Ion	Ratio	Lower	Upper
84	100		
86	61.4	44.7	84.7
49	134.6	134.9	174.9#
51	47.6	27.3	67.3

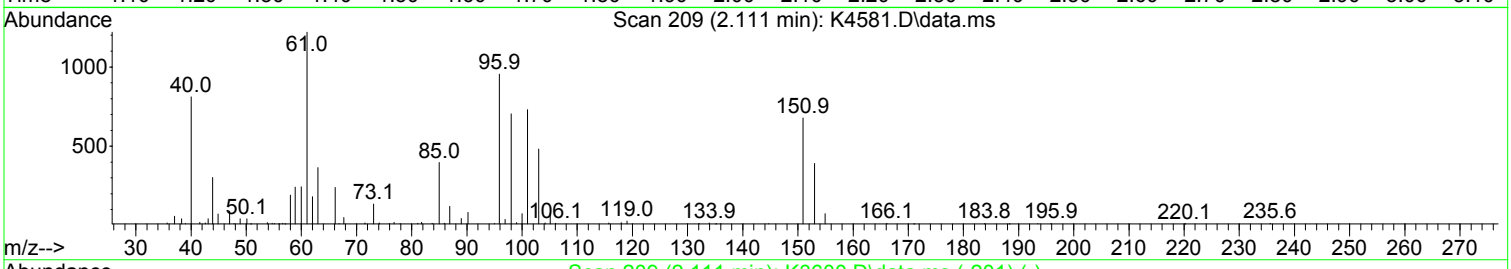


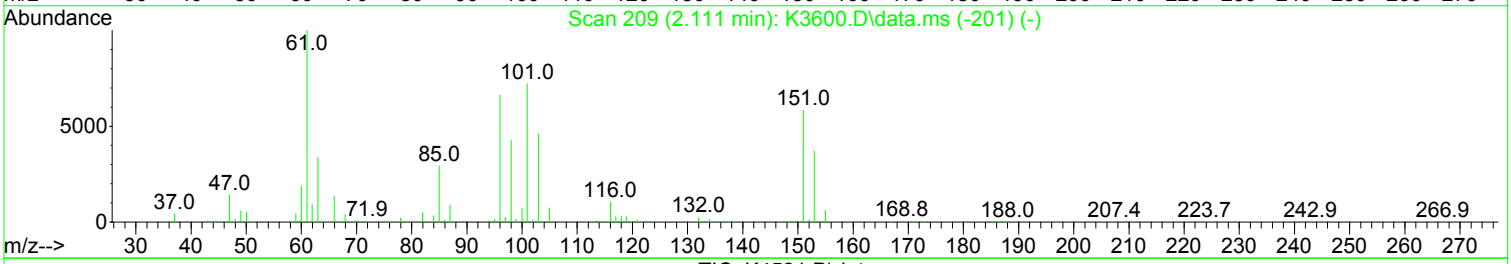
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(15) Freon 113 (P)

2.111min (-0.000) 0.50 ug/L m

response 1594

Ion	Exp%	Act%
101.00	100.00	100.00
151.00	80.80	93.01
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

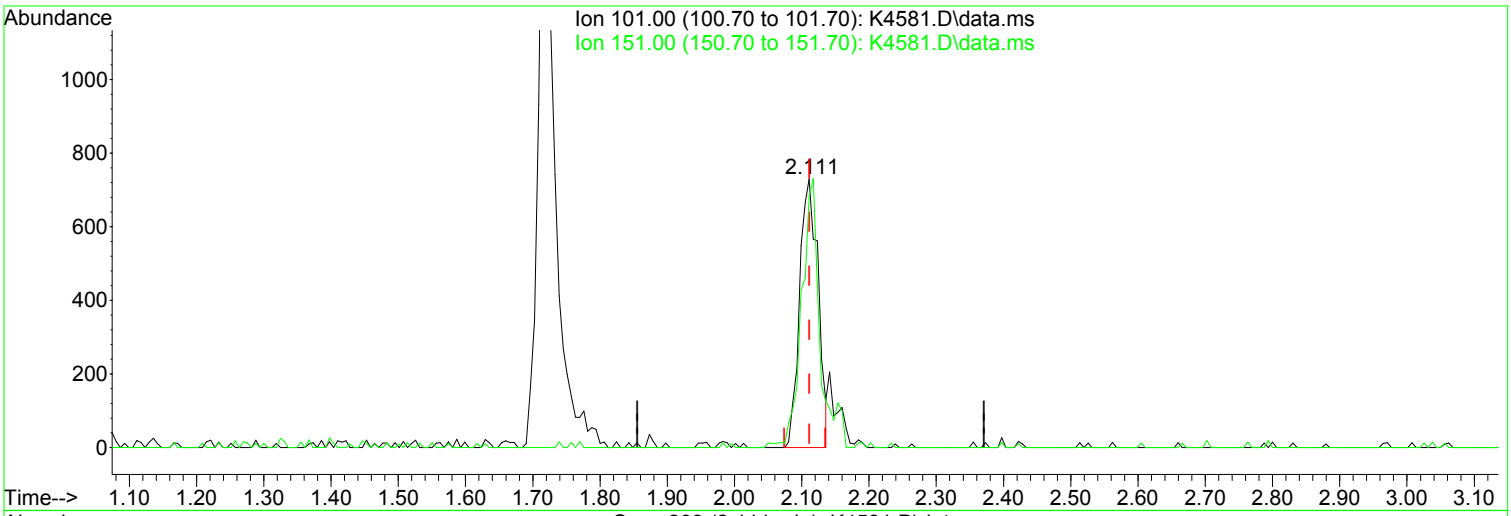
Split Peak.

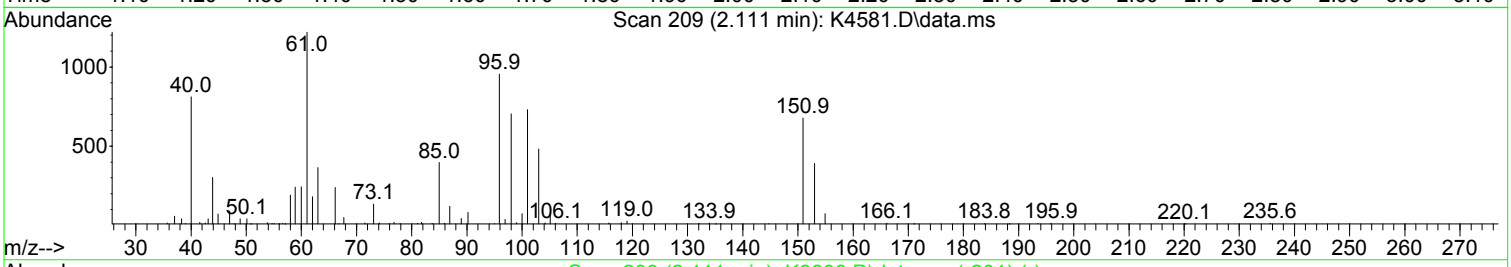
07/31/24

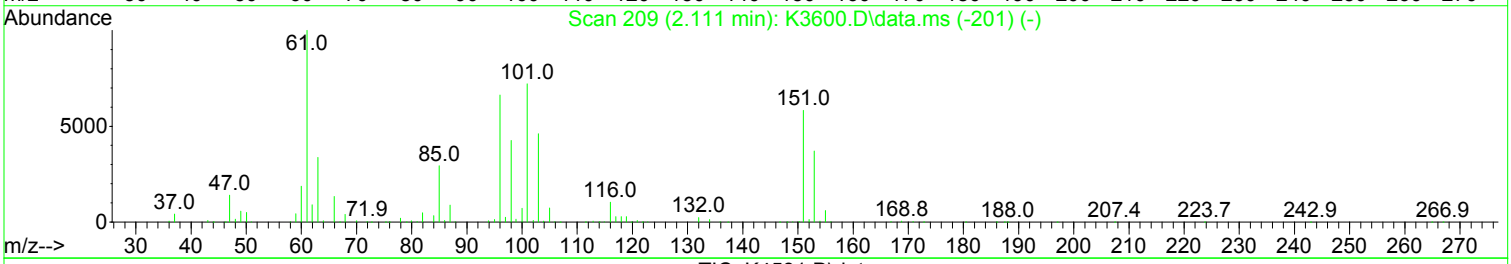
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(15) Freon 113 (P)

2.111min (-0.000) 0.44 ug/L

response 1390

Ion	Exp%	Act%
101.00	100.00	100.00
151.00	80.80	93.01
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

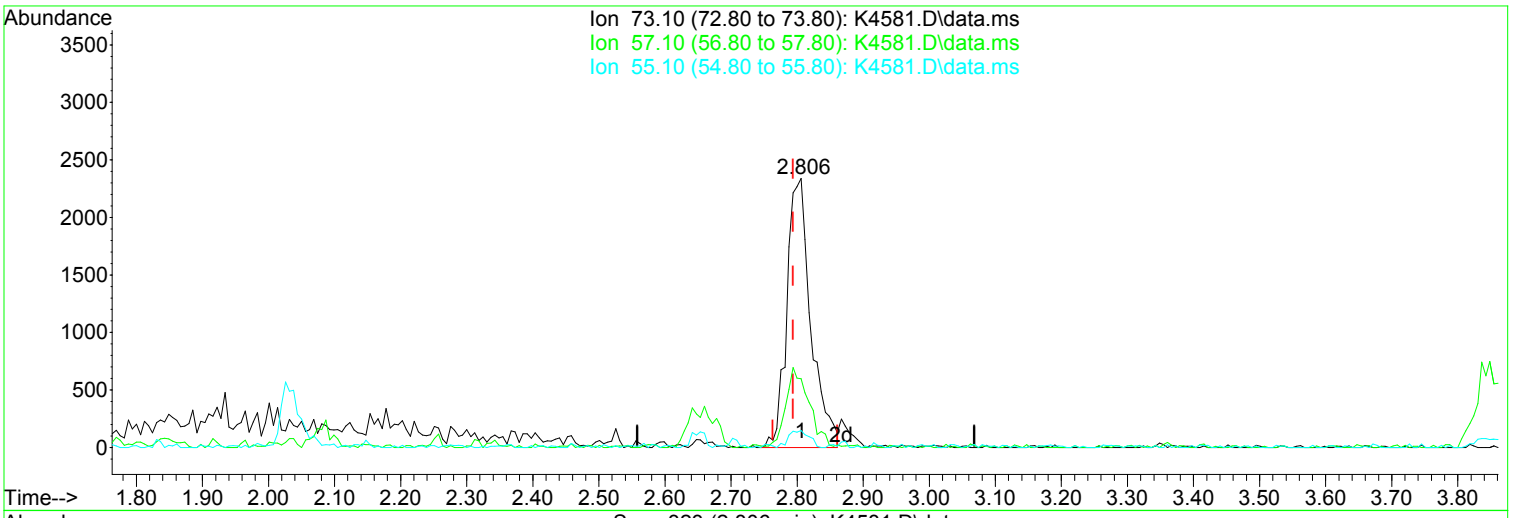
Before

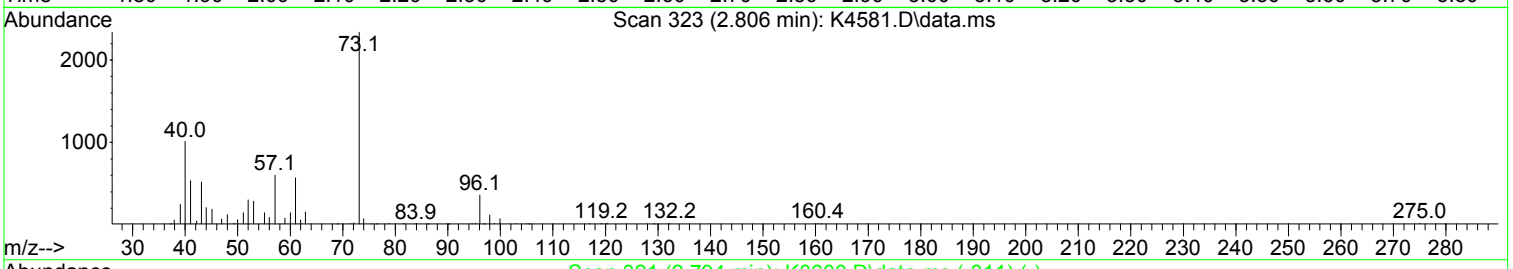
07/31/24

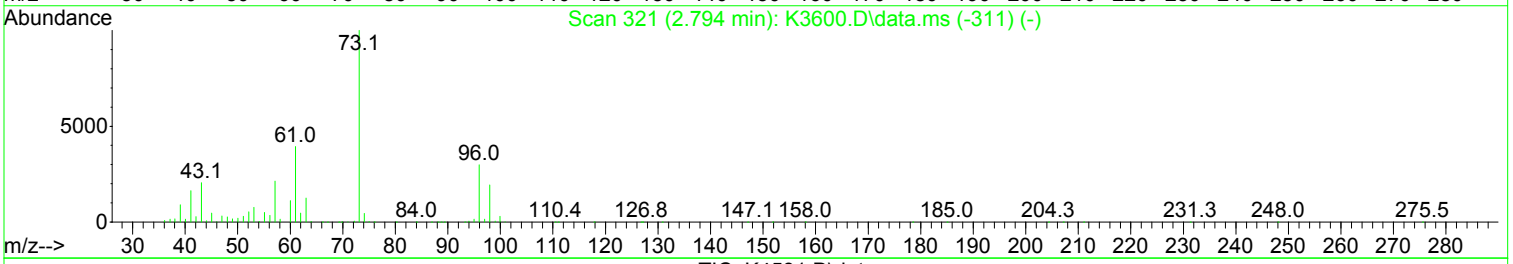
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(25) Methyl-t-Butyl Ether (P)

2.806min (+ 0.012) 0.51 ug/L m

response 5907

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	21.60	25.62
55.10	5.10	6.29
0.00	0.00	0.00

Manual Integration:

After

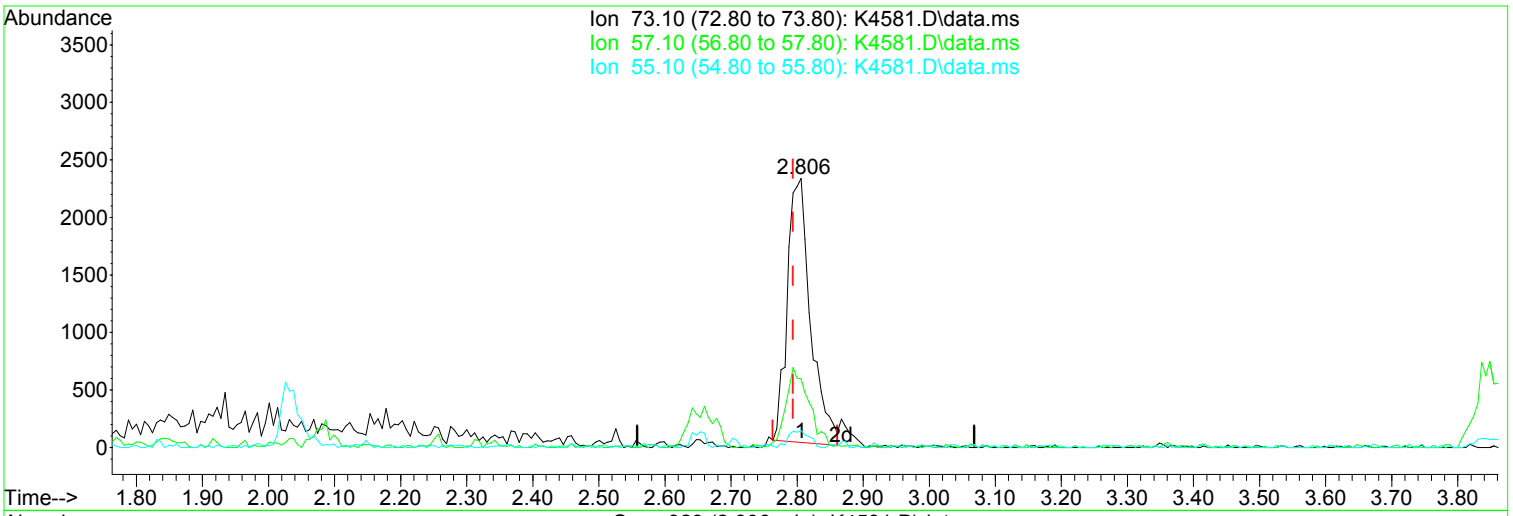
Poor integration.

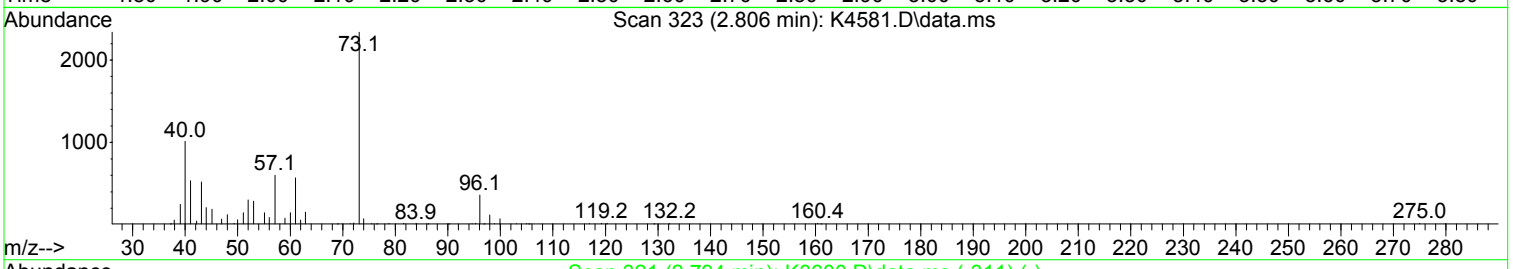
07/31/24

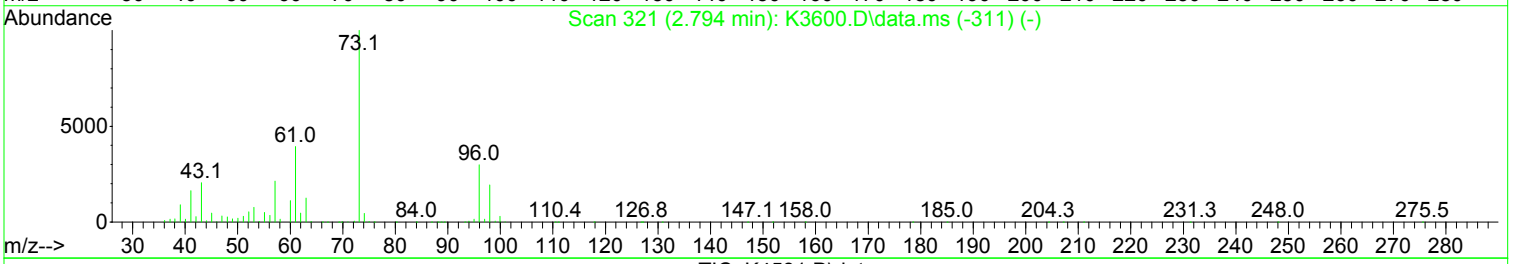
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(25) Methyl-t-Butyl Ether (P)

2.806min (+ 0.012) 0.48 ug/L

response 5595

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	21.60	25.62
55.10	5.10	6.29
0.00	0.00	0.00

Manual Integration:

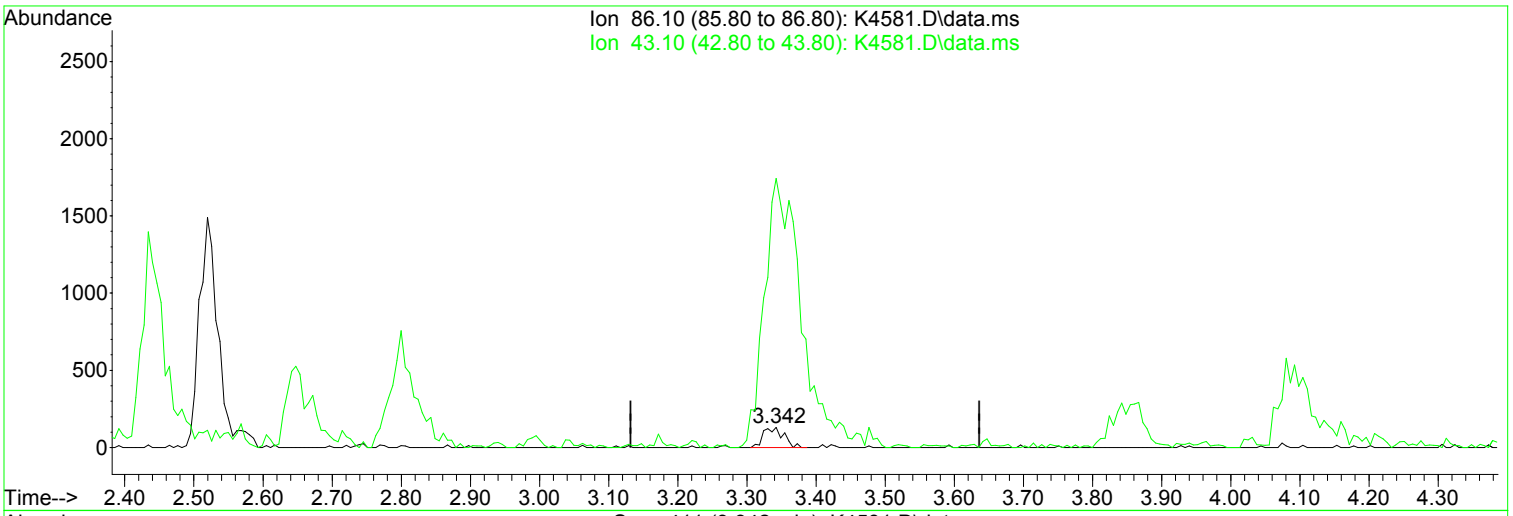
Before

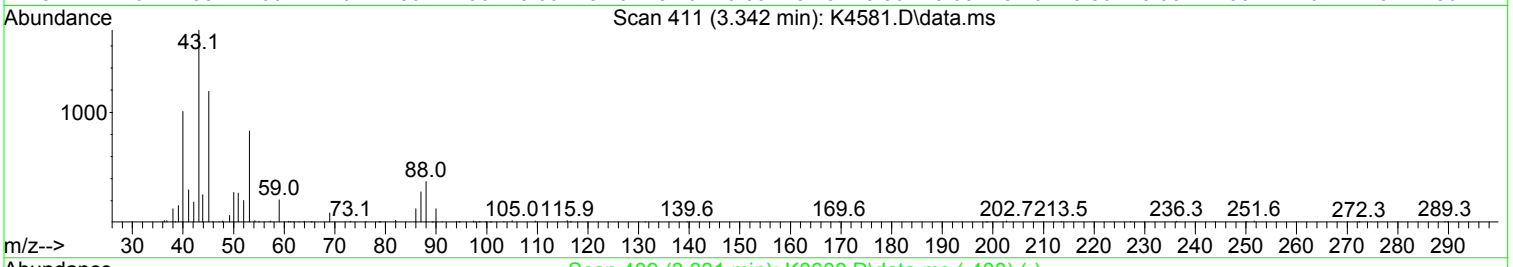
07/31/24

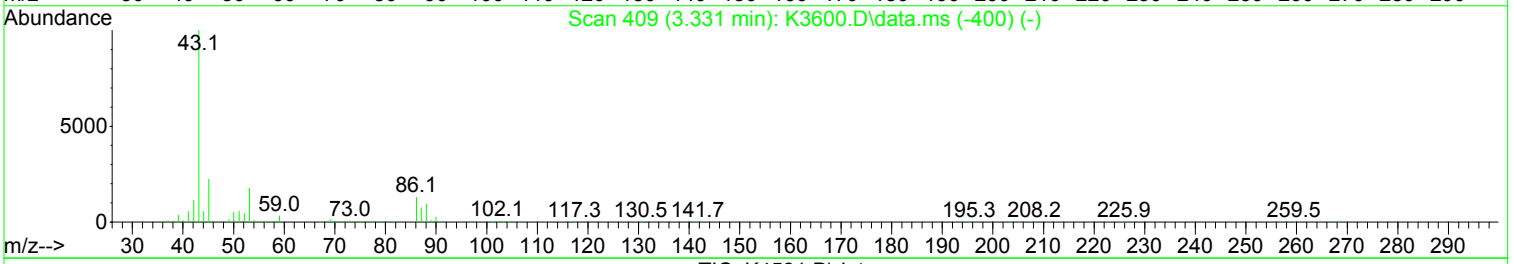
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(28) Vinyl Acetate

3.342min (+ 0.012) 0.39 ug/L m

response 266

Ion	Exp%	Act%
86.10	100.00	100.00
43.10	778.10	1340.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

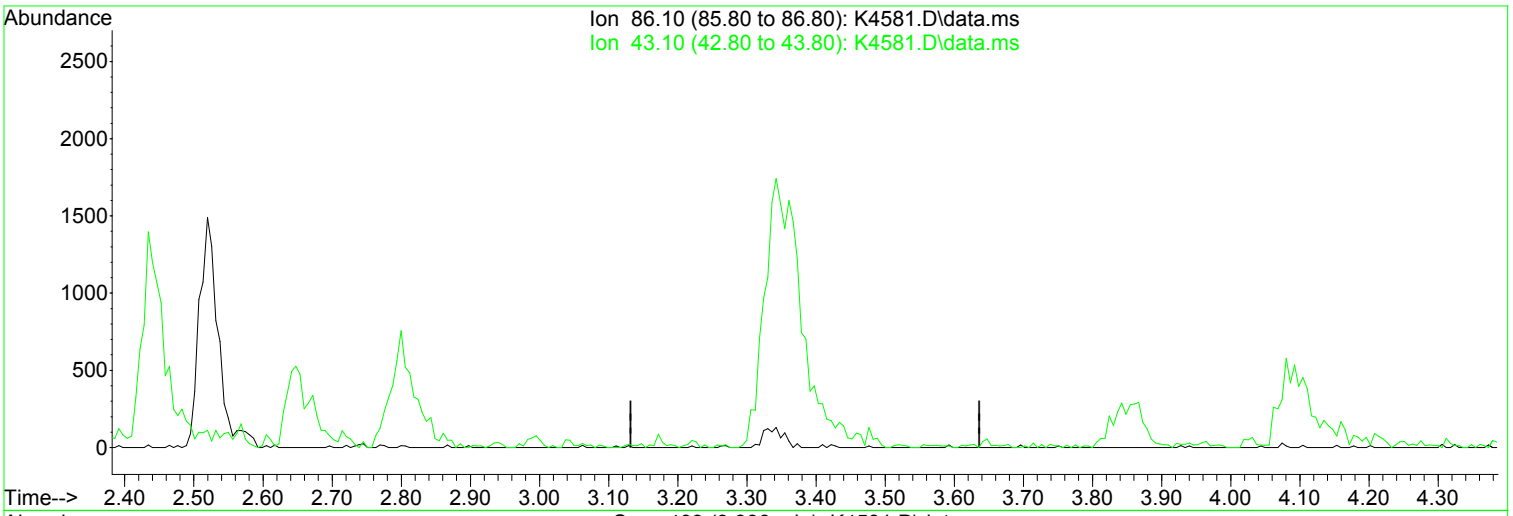
Peak not found.

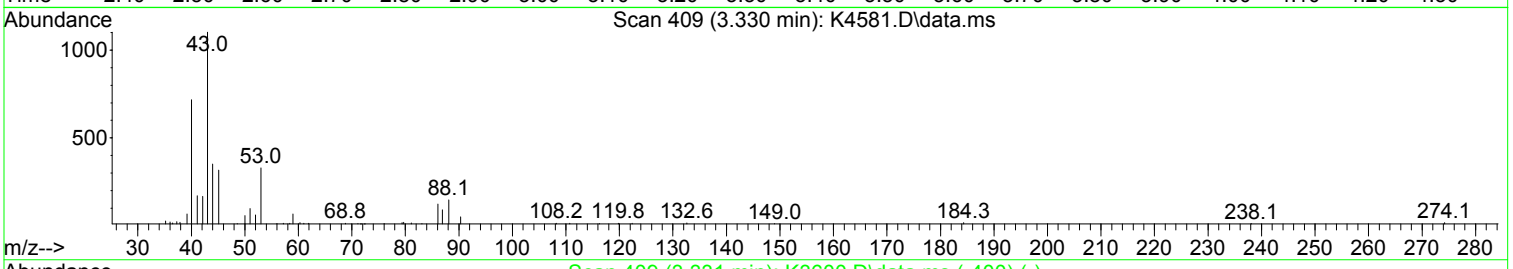
07/31/24

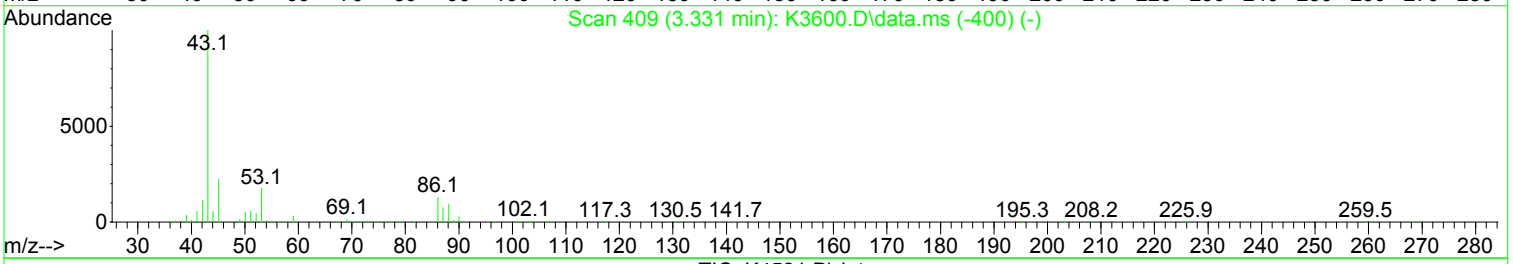
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(28) Vinyl Acetate

3.331min (-3.331) 0.00 ug/L

response 0

Ion	Exp%	Act%
86.10	100.00	0.00
43.10	778.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

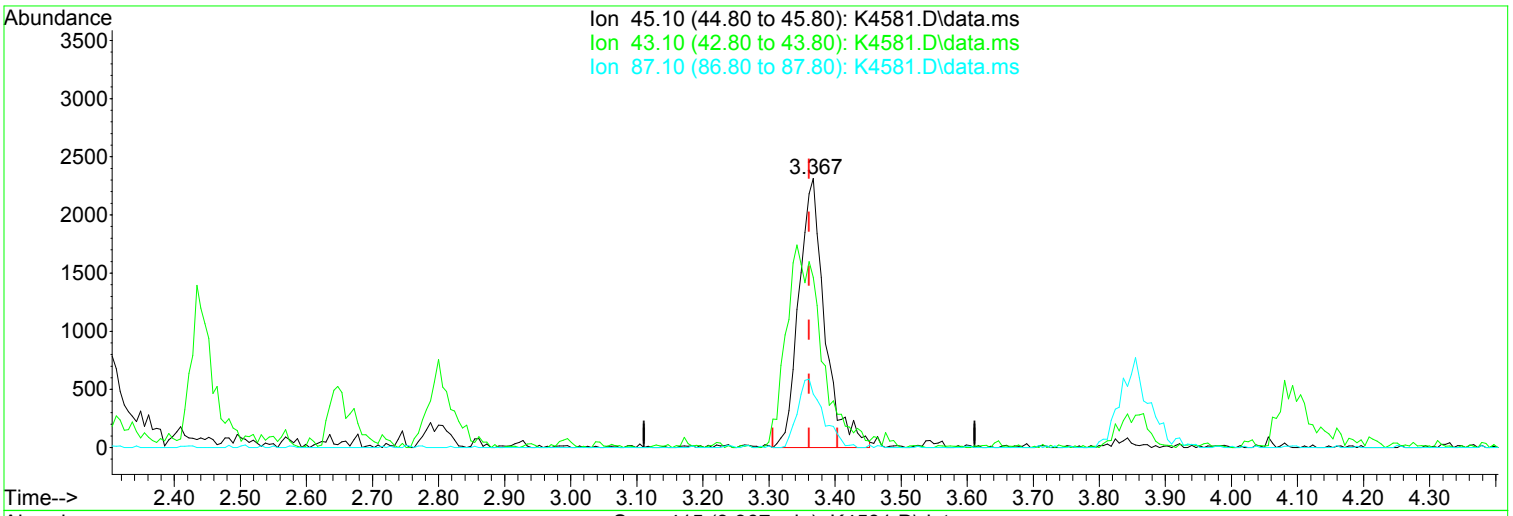
Before

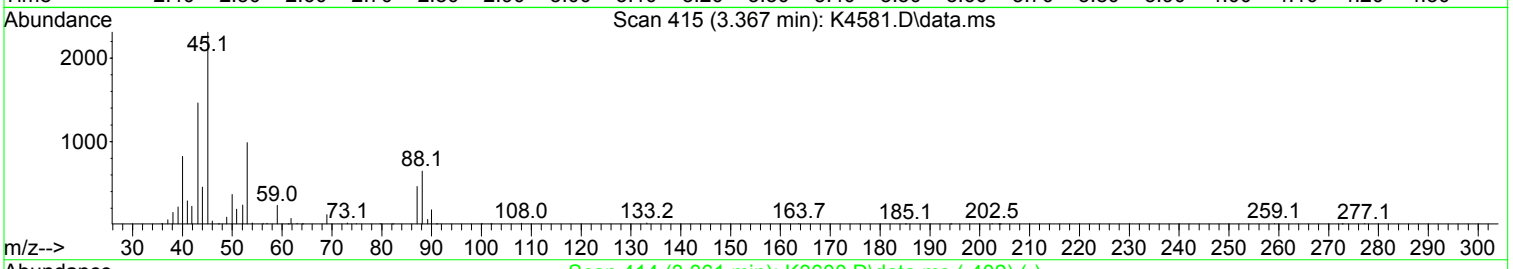
07/31/24

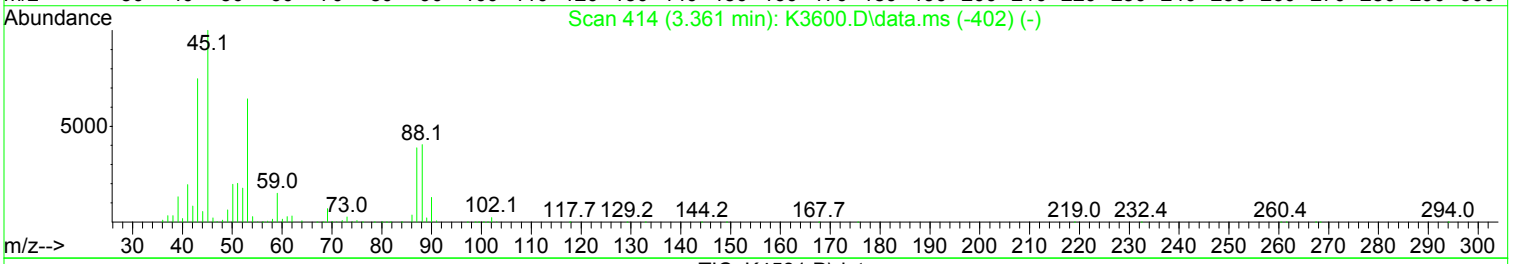
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(29) DIPE

3.367min (+ 0.006) 0.51 ug/L m

response 6297

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	75.00	63.34
87.10	39.10	19.89
0.00	0.00	0.00

Manual Integration:

After

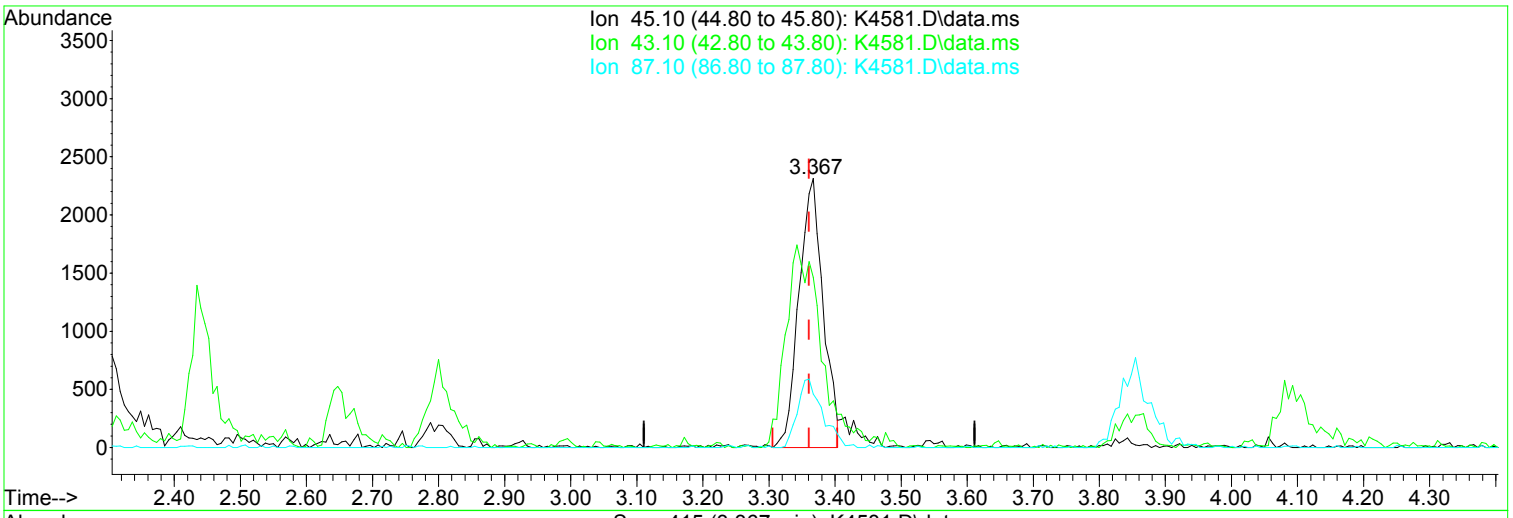
Poor integration.

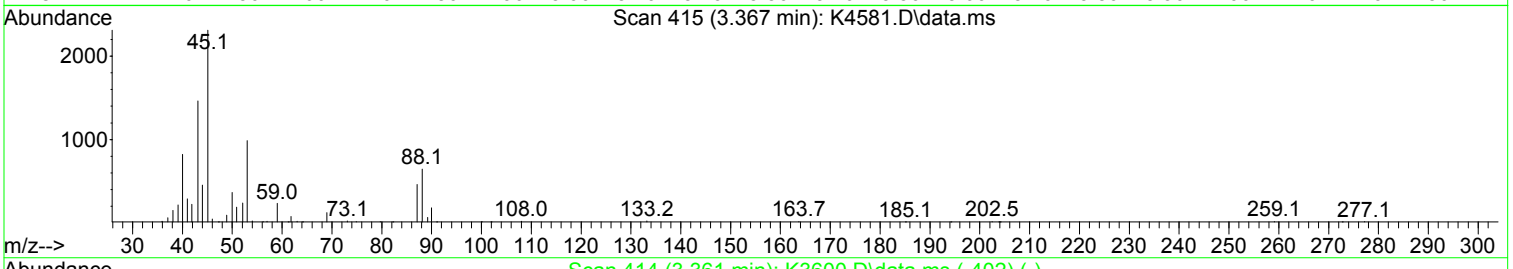
07/31/24

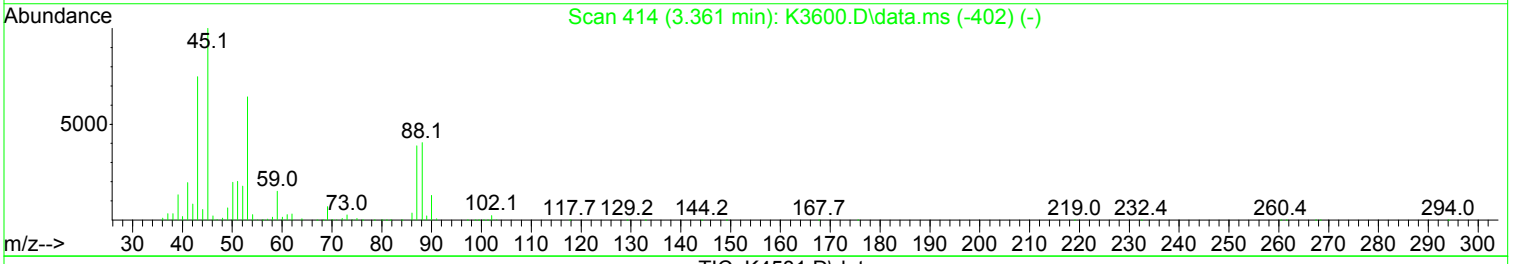
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(29) DIPE

3.367min (+ 0.006) 0.48 ug/L

response 5855

Ion	Exp%	Act%
45.10	100.00	100.00
43.10	75.00	63.34
87.10	39.10	19.89
0.00	0.00	0.00

Manual Integration:

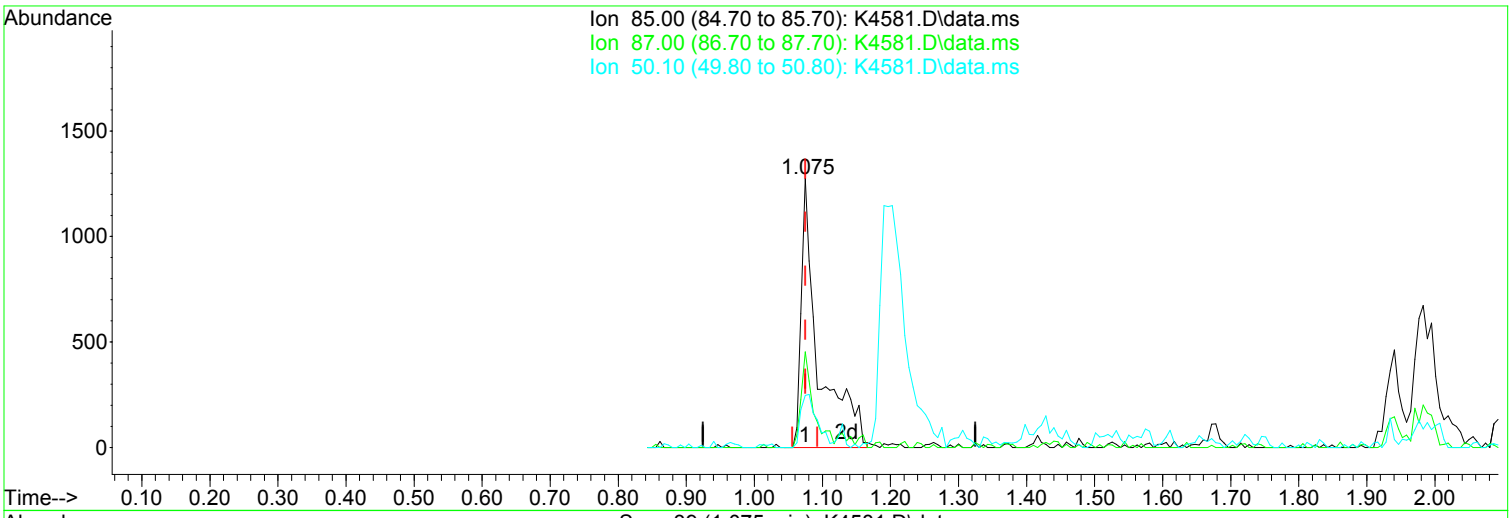
Before

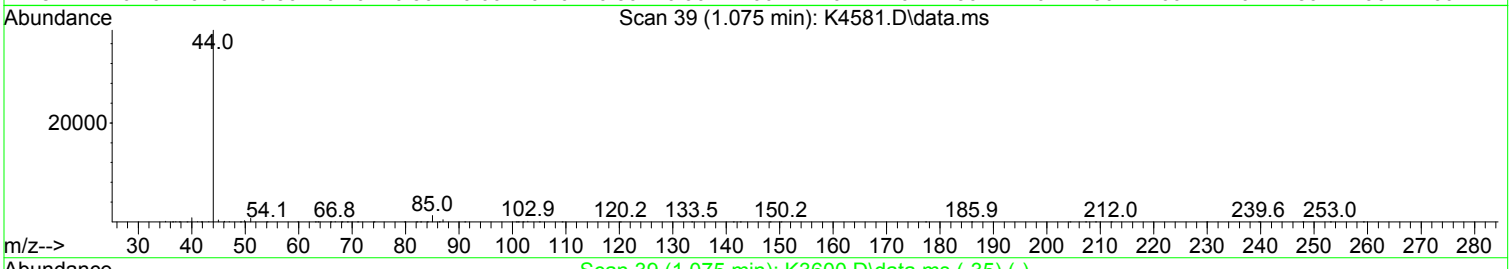
07/31/24

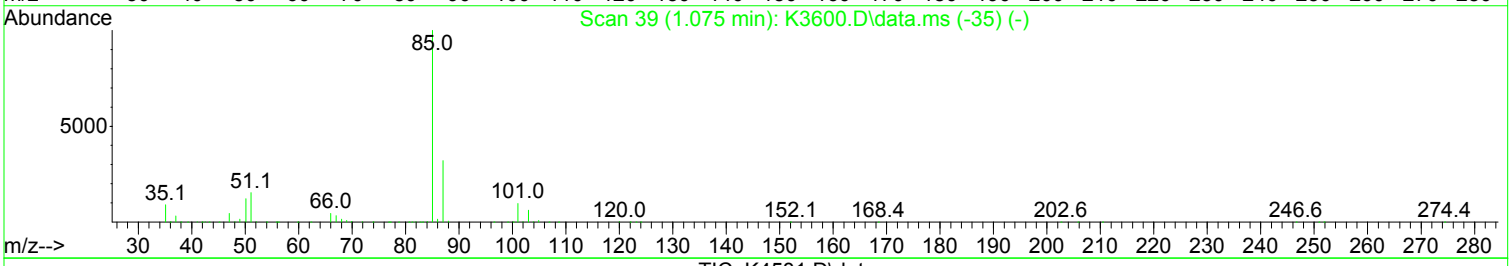
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(3) Dichlorodifluoromethane (P)

1.075min (-0.000) 0.54 ug/L m

response 2286

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	32.00	35.53
50.10	12.20	19.29
0.00	0.00	0.00

Manual Integration:

After

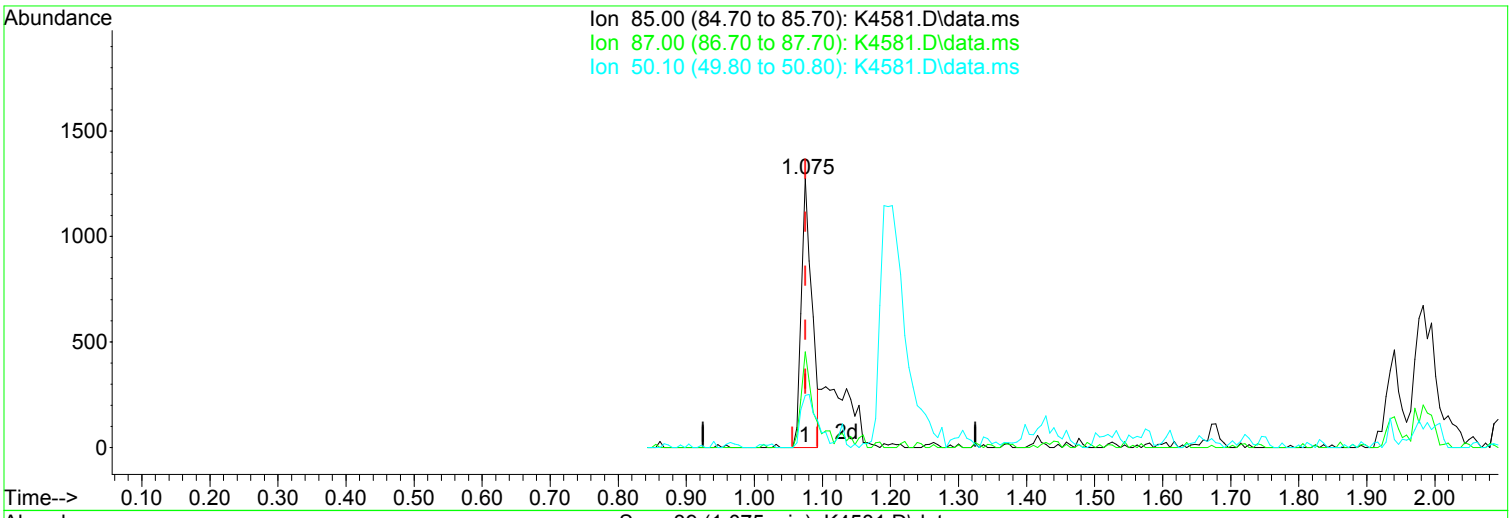
Split Peak.

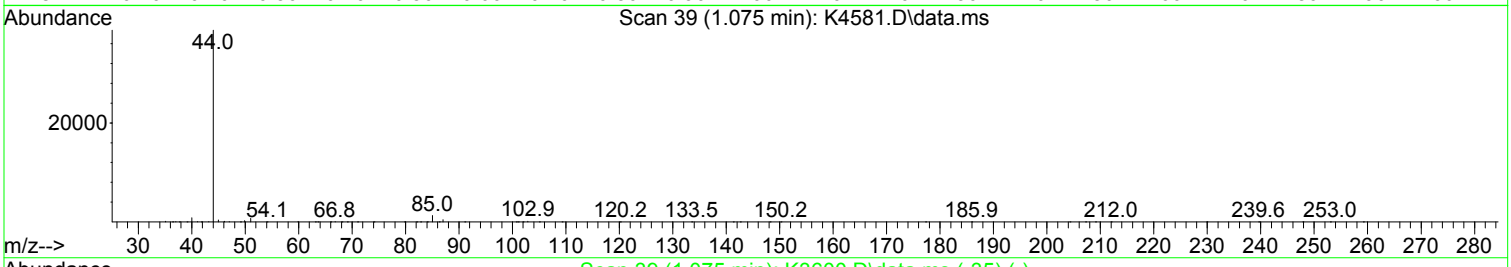
07/31/24

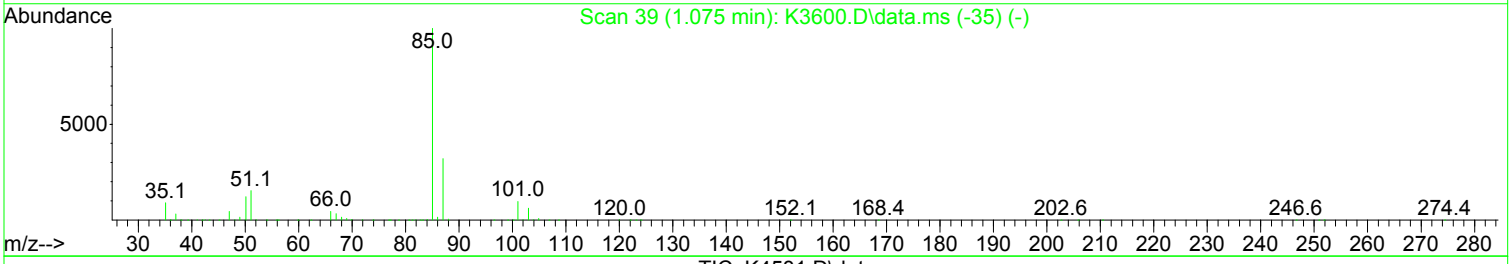
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(3) Dichlorodifluoromethane (P)

1.075min (-0.000) 0.33 ug/L

response 1383

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	32.00	35.53
50.10	12.20	19.29
0.00	0.00	0.00

Manual Integration:

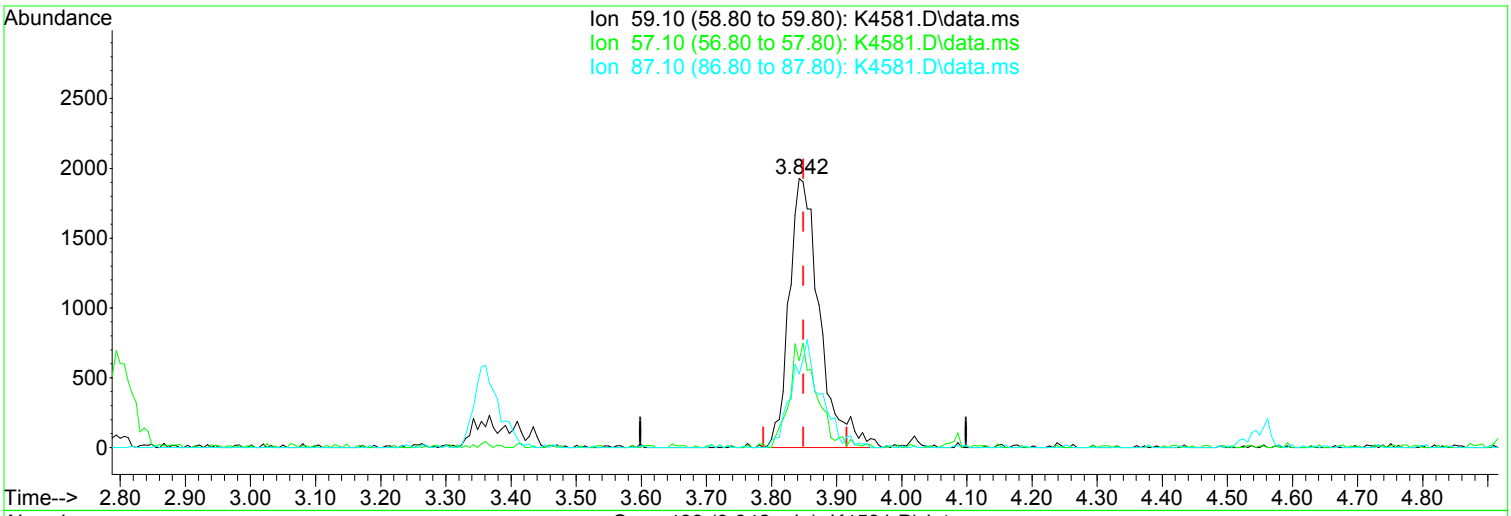
Before

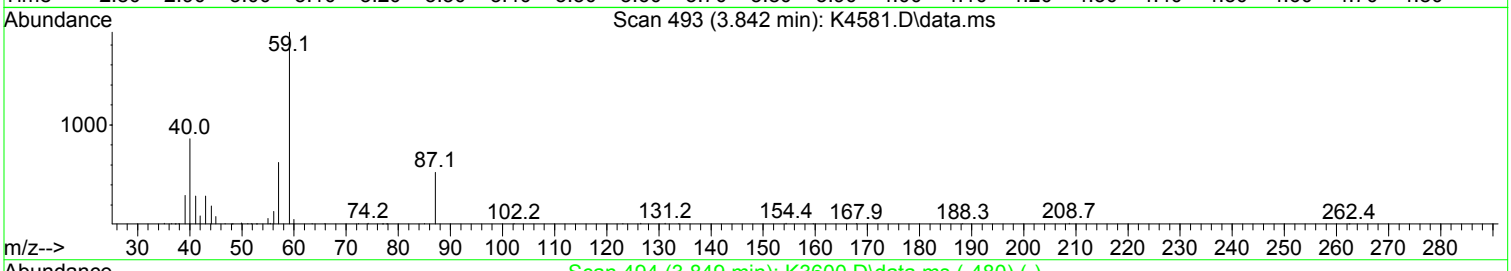
07/31/24

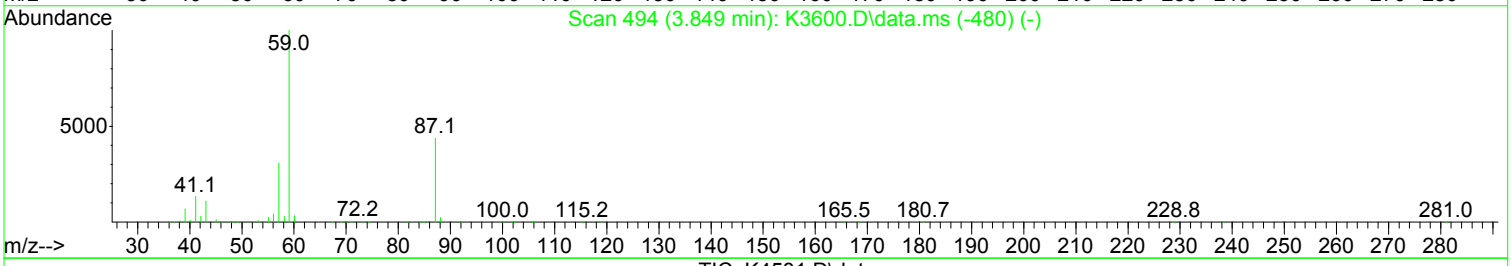
1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(31) ETBE

3.842min (-0.006) 0.48 ug/L m

response 6267

Ion	Exp%	Act%
59.10	100.00	100.00
57.10	30.90	32.38
87.10	43.70	27.30
0.00	0.00	0.00

Manual Integration:

After

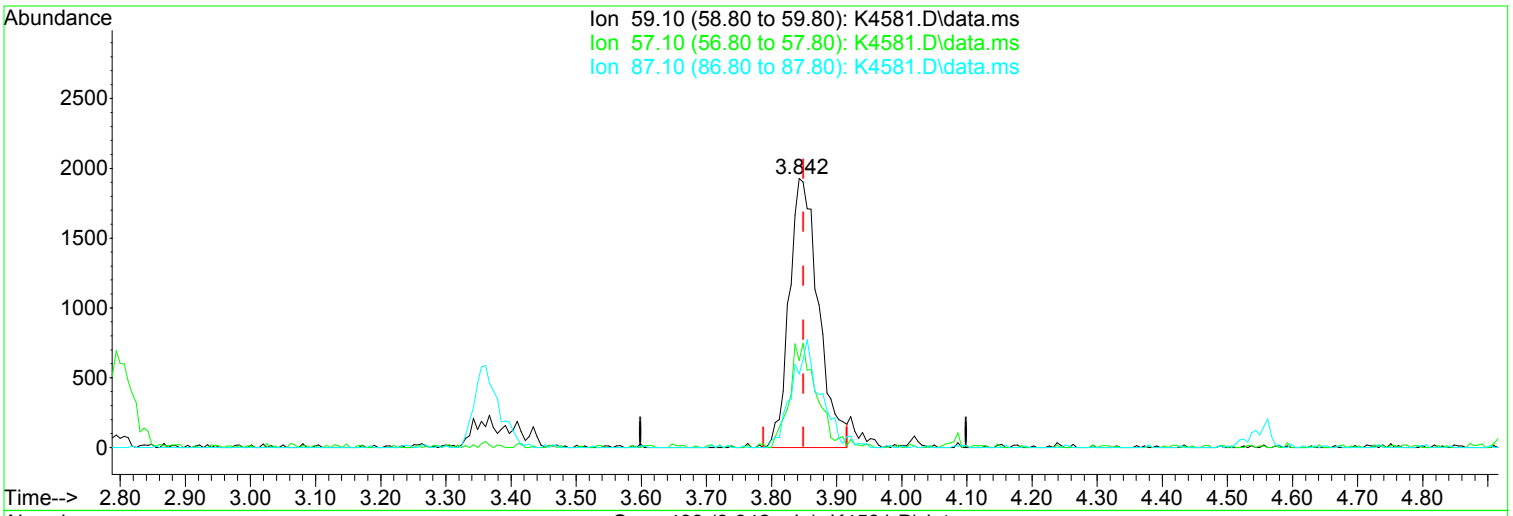
Poor integration.

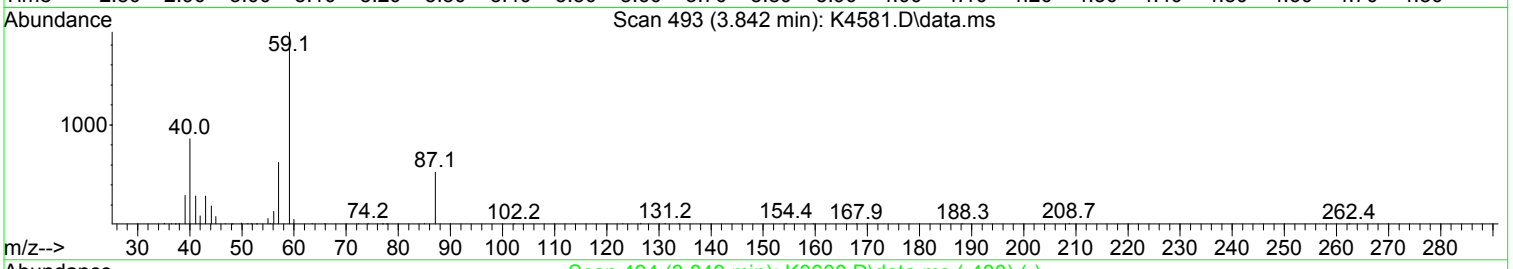
07/31/24

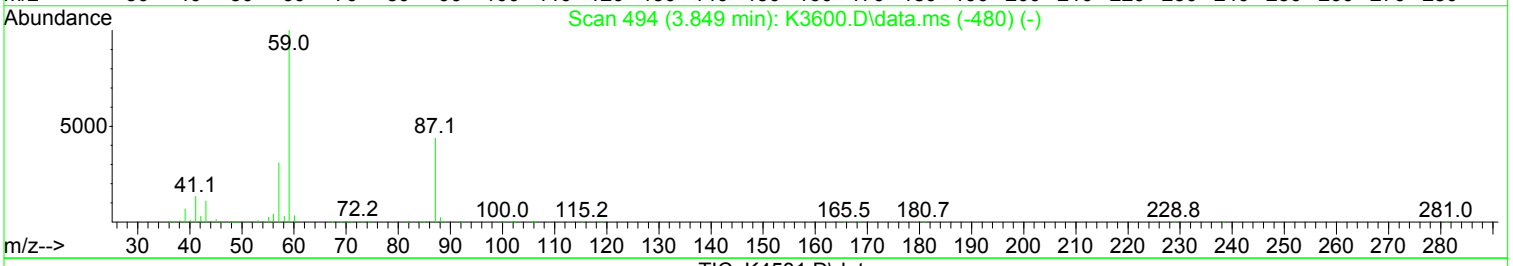
1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(31) ETBE

3.842min (-0.006) 0.46 ug/L

response 6018

Ion	Exp%	Act%
59.10	100.00	100.00
57.10	30.90	32.38
87.10	43.70	27.30
0.00	0.00	0.00

Manual Integration:

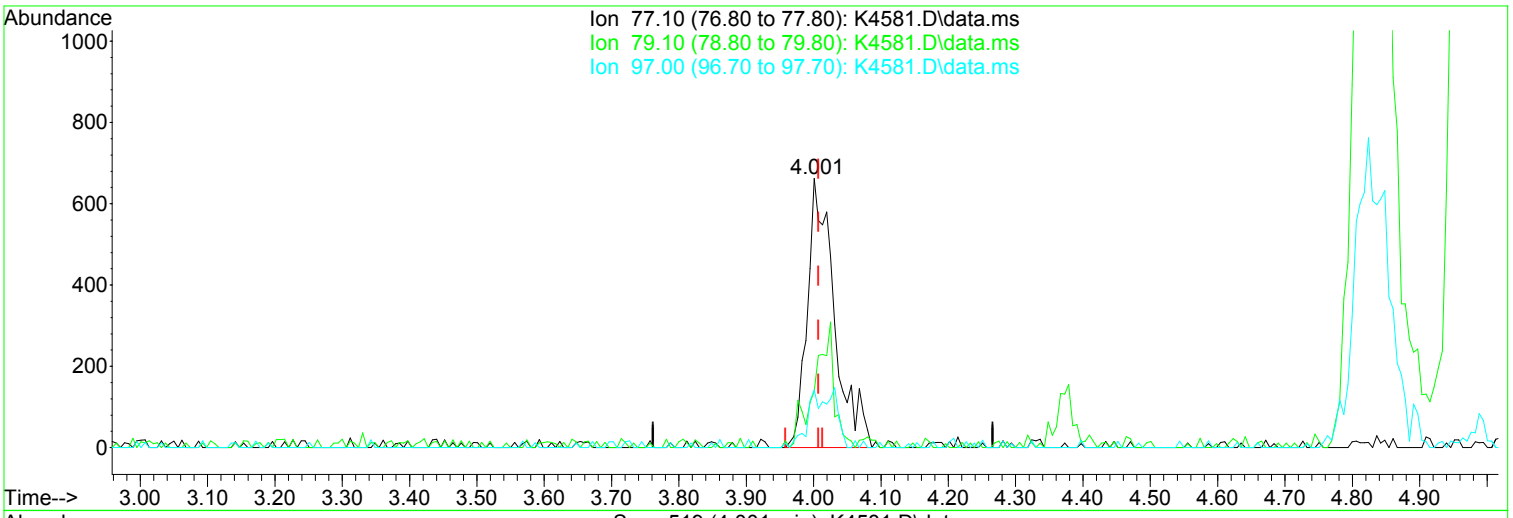
Before

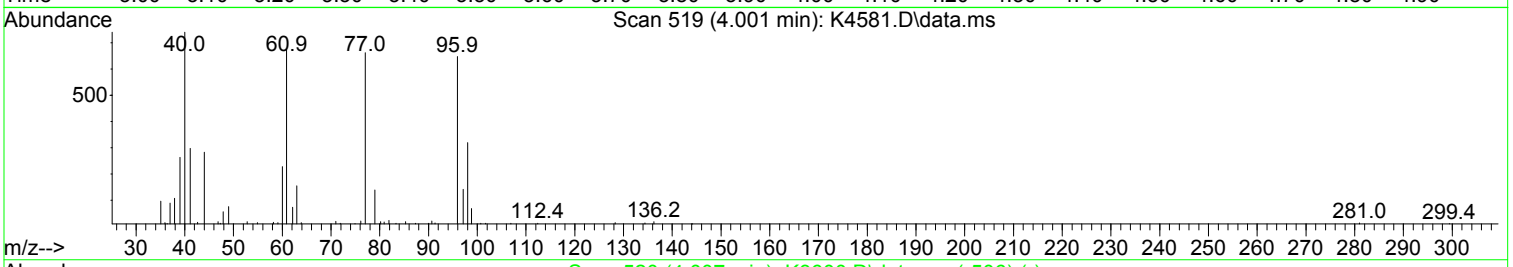
07/31/24

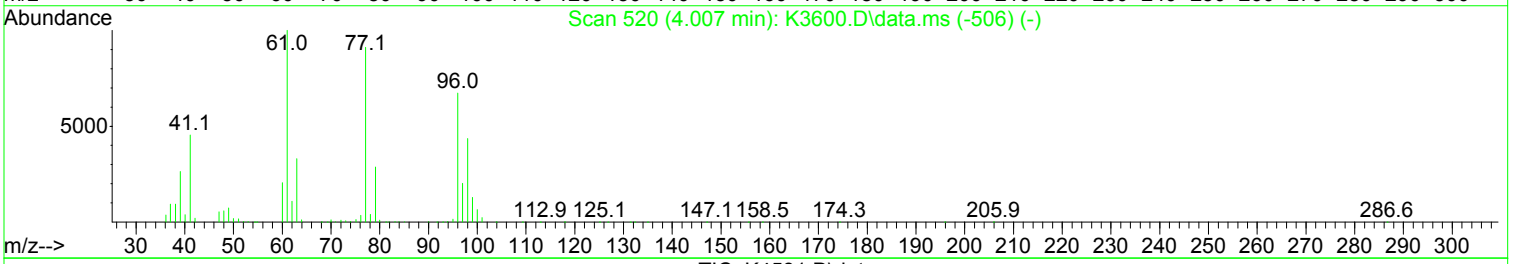
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(32) 2,2-Dichloropropane

4.001min (-0.006) 0.42 ug/L m

response 1844

Ion	Exp%	Act%
77.10	100.00	100.00
79.10	31.50	21.00
97.00	22.20	21.45
0.00	0.00	0.00

Manual Integration:

After

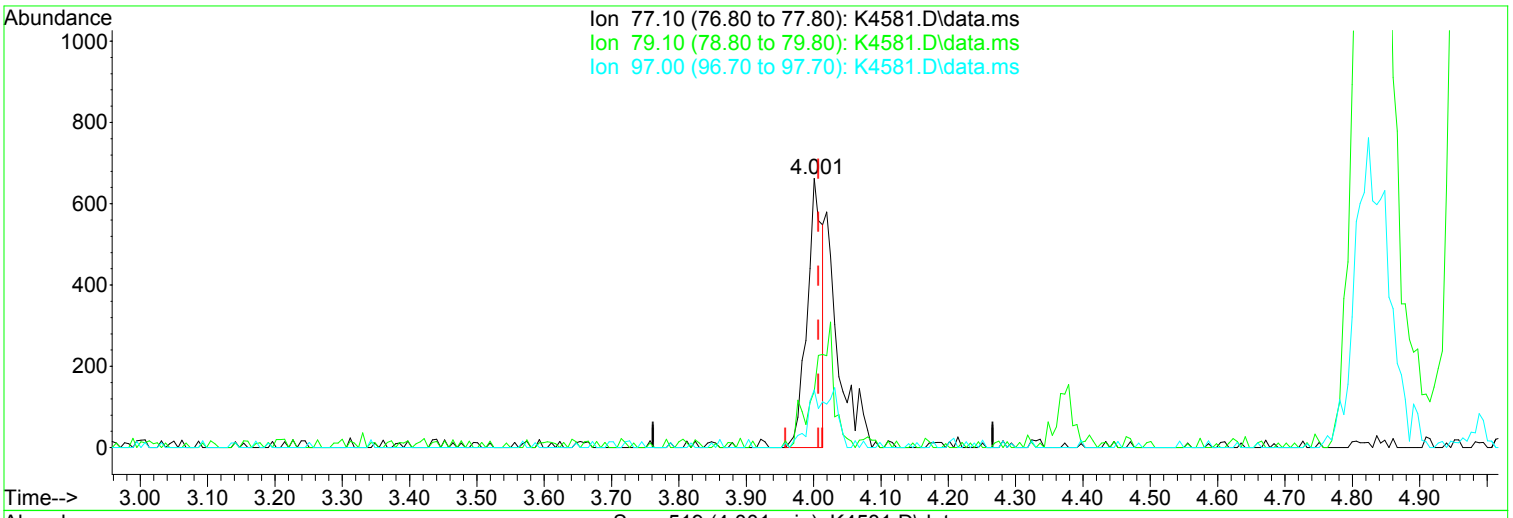
Split Peak.

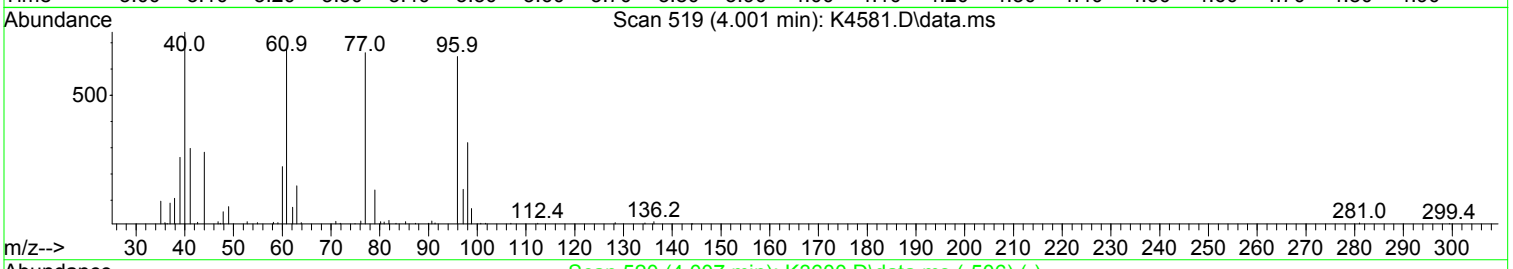
07/31/24

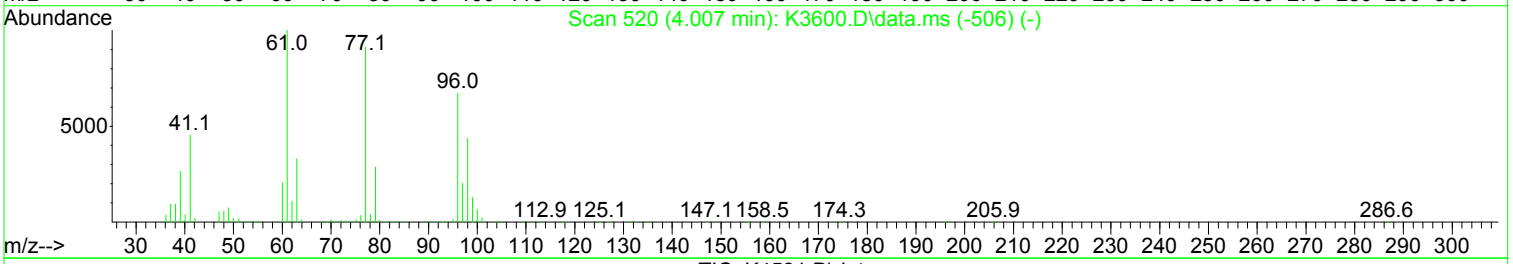
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(32) 2,2-Dichloropropane

4.001min (-0.006) 0.23 ug/L

response 1025

Ion	Exp%	Act%
77.10	100.00	100.00
79.10	31.50	21.00
97.00	22.20	21.45
0.00	0.00	0.00

Manual Integration:

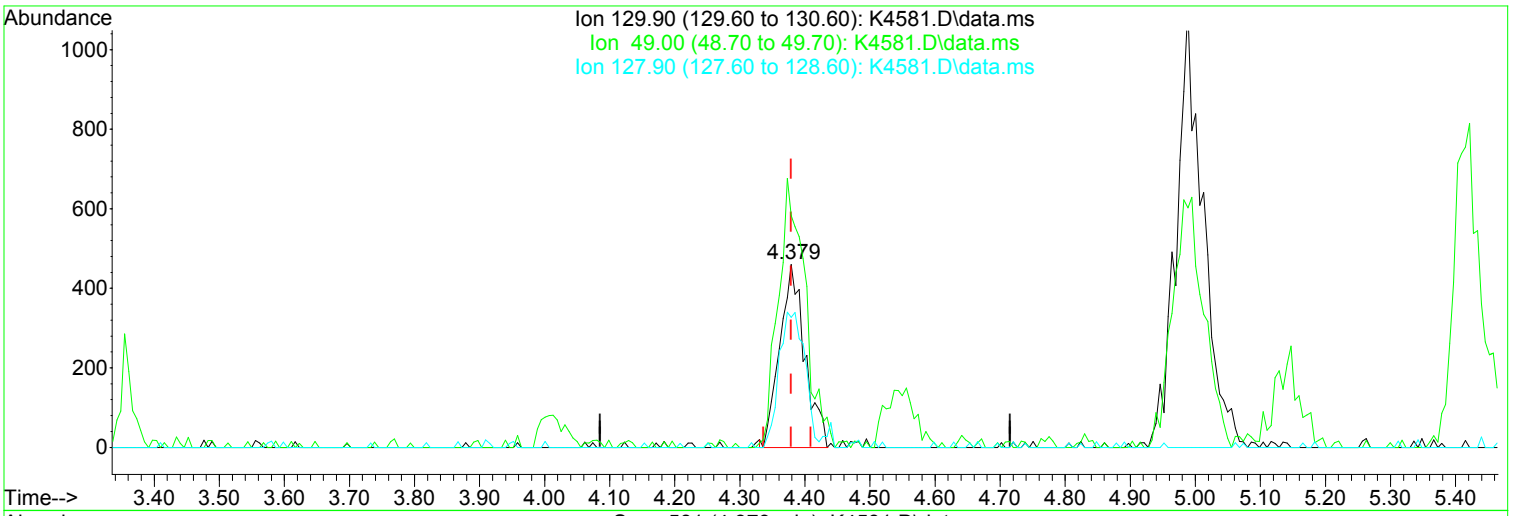
Before

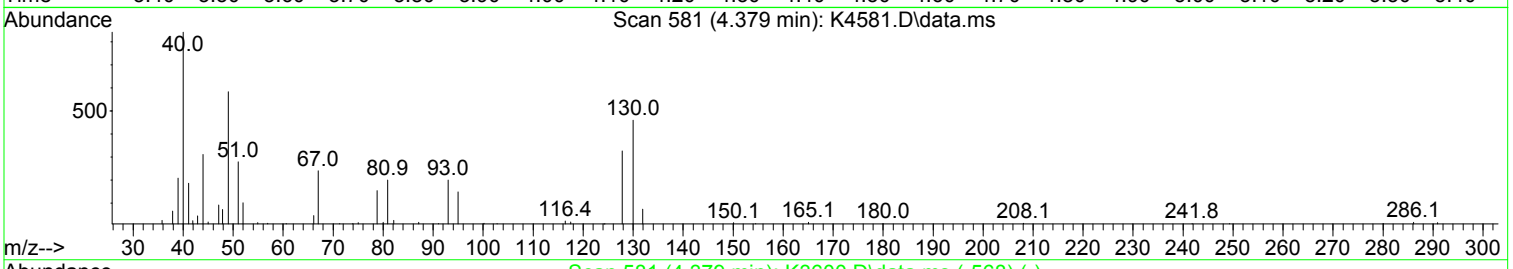
07/31/24

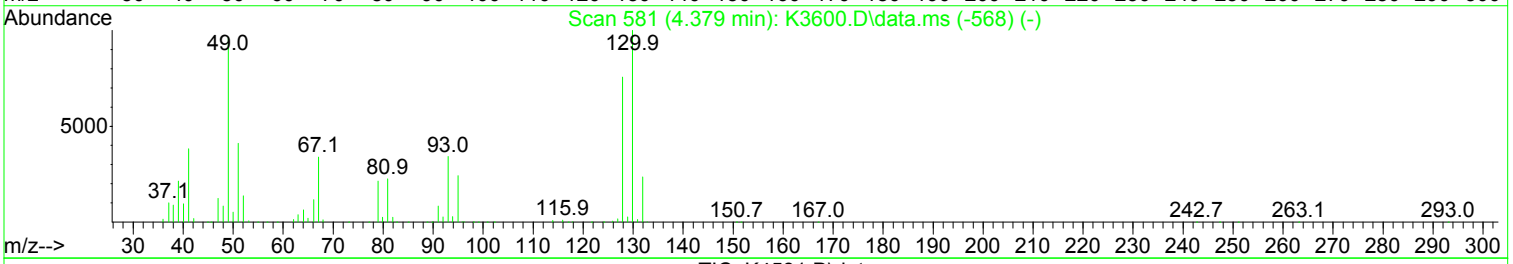
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(36) Bromochloromethane

4.379min (-0.000) 0.48 ug/L m

response 1229

Ion	Exp%	Act%
129.90	100.00	100.00
49.00	96.20	126.74#
127.90	75.60	71.09
0.00	0.00	0.00

Manual Integration:

After

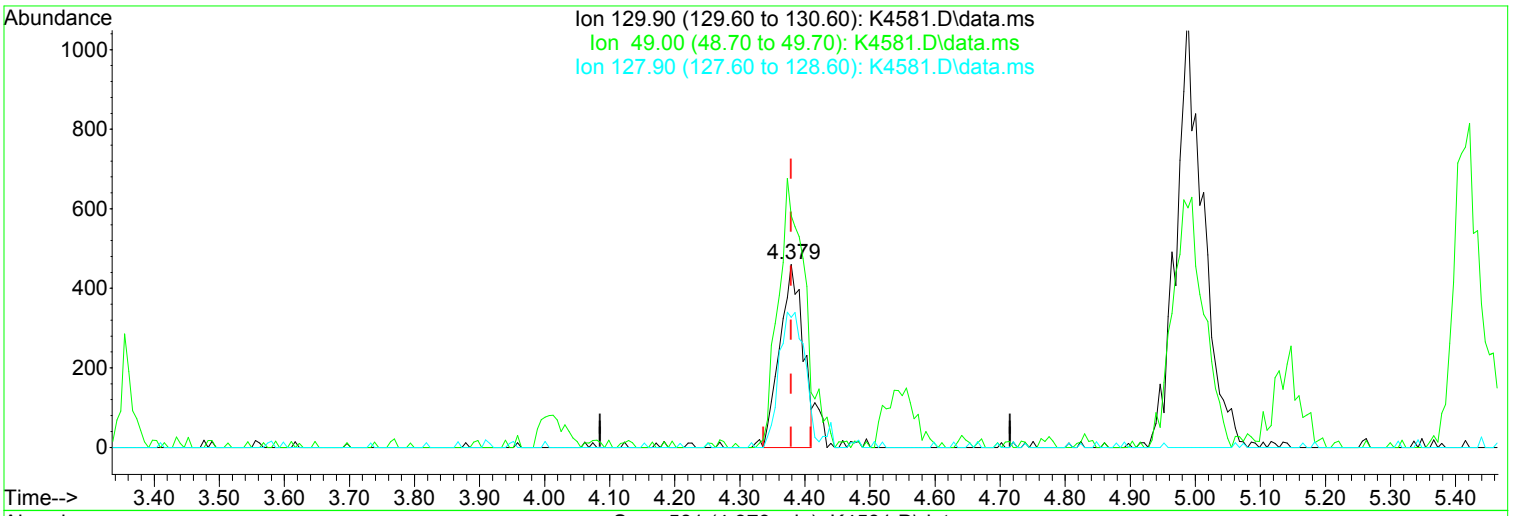
Split Peak.

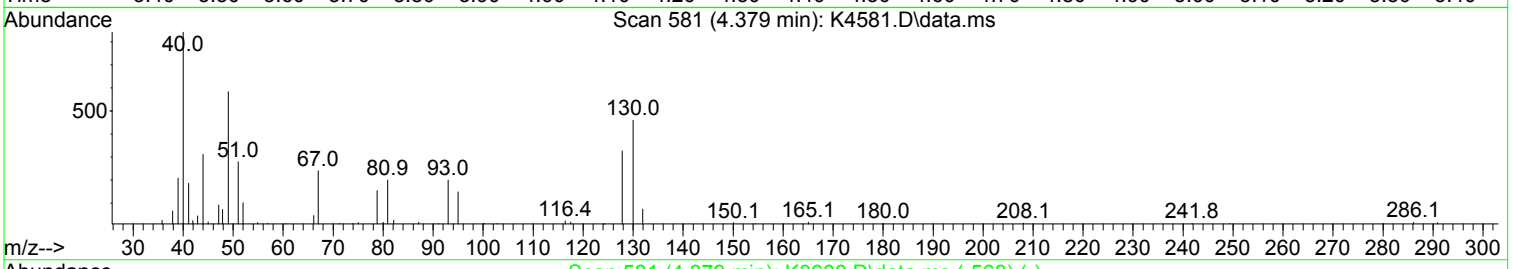
07/31/24

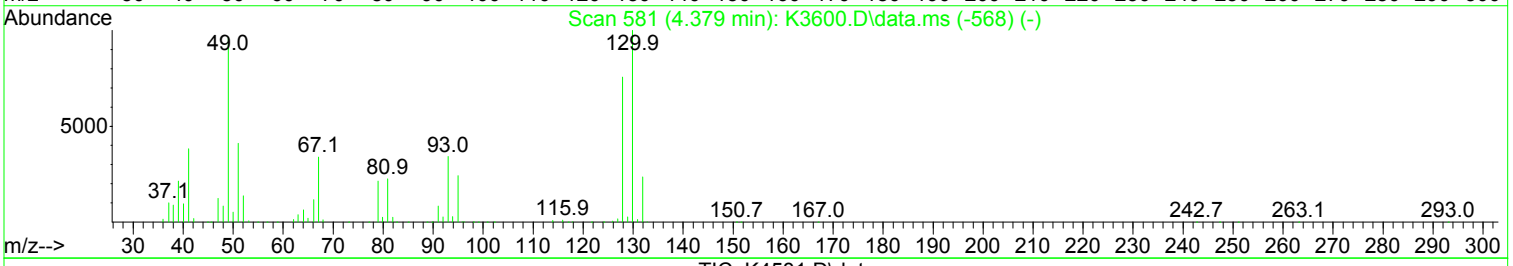
1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(36) Bromochloromethane

4.379min (-0.000) 0.44 ug/L

response 1127

Ion	Exp%	Act%
129.90	100.00	100.00
49.00	96.20	126.74#
127.90	75.60	71.09
0.00	0.00	0.00

Manual Integration:

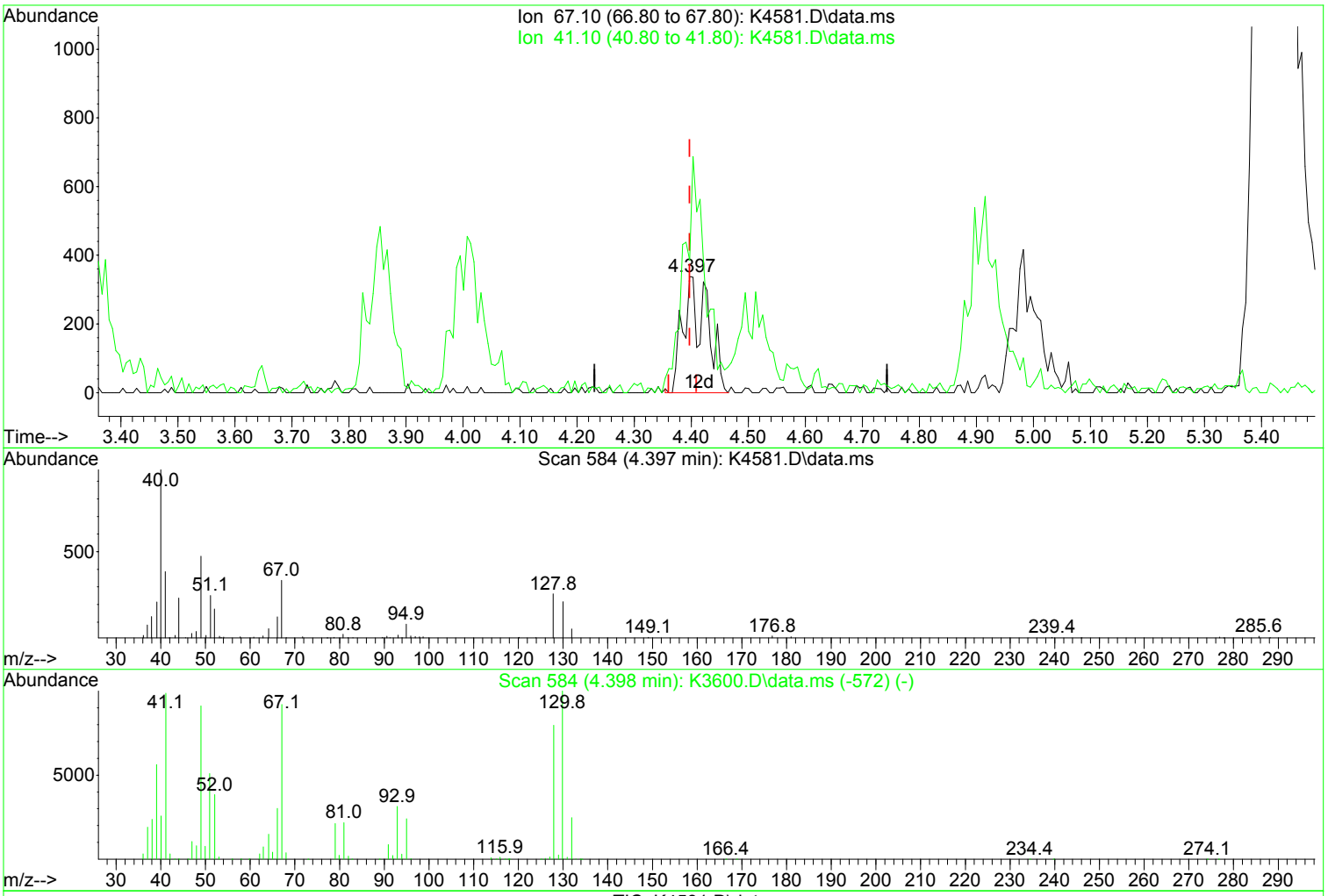
Before

07/31/24

1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



TIC: K4581.D\data.ms

(37) Methacrylonitrile

4.397min (-0.000) 0.44 ug/L m

response 981

Ion	Exp%	Act%
67.10	100.00	100.00
41.10	107.20	114.20
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

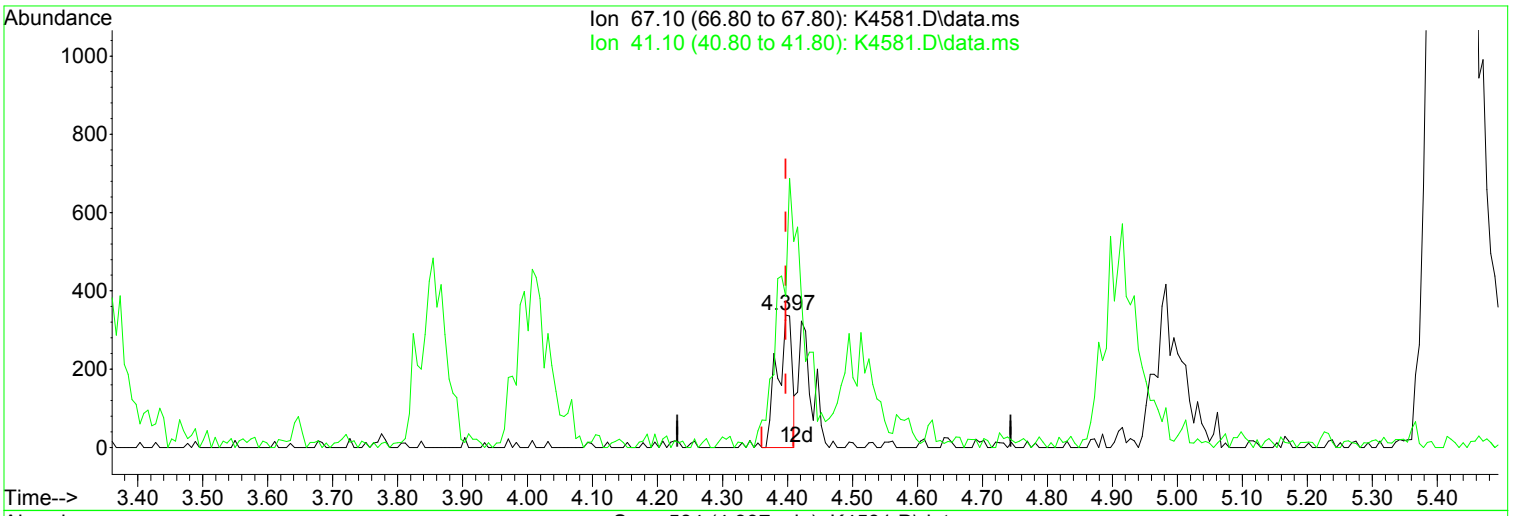
Split Peak.

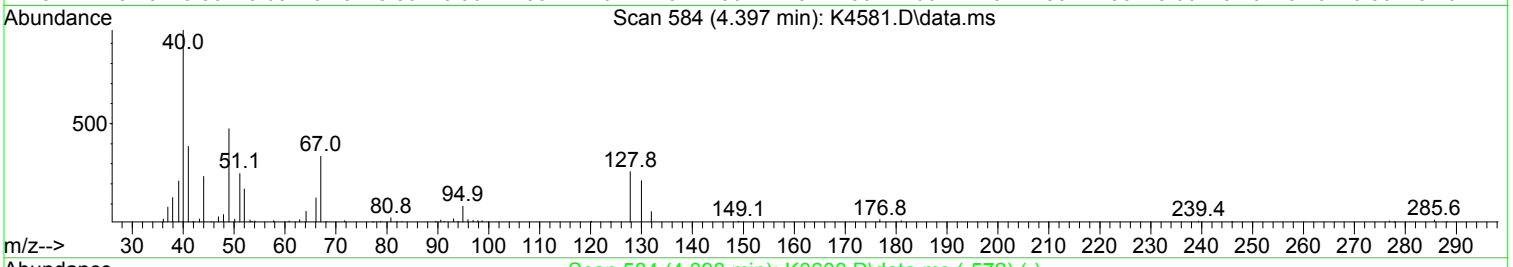
07/31/24

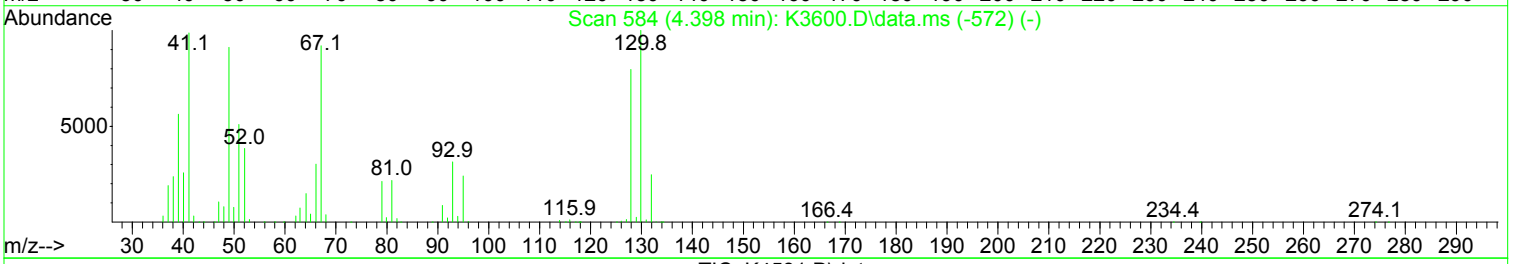
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(37) Methacrylonitrile

4.397min (-0.000) 0.24 ug/L

response 530

Ion	Exp%	Act%
67.10	100.00	100.00
41.10	107.20	114.20
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

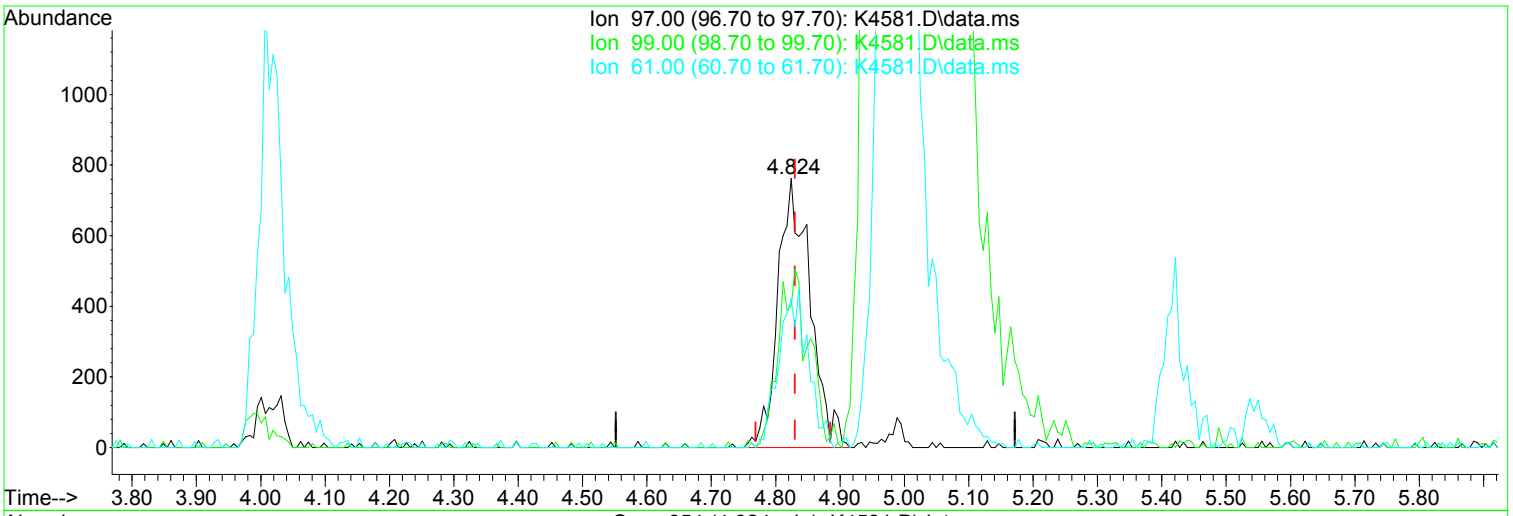
Before

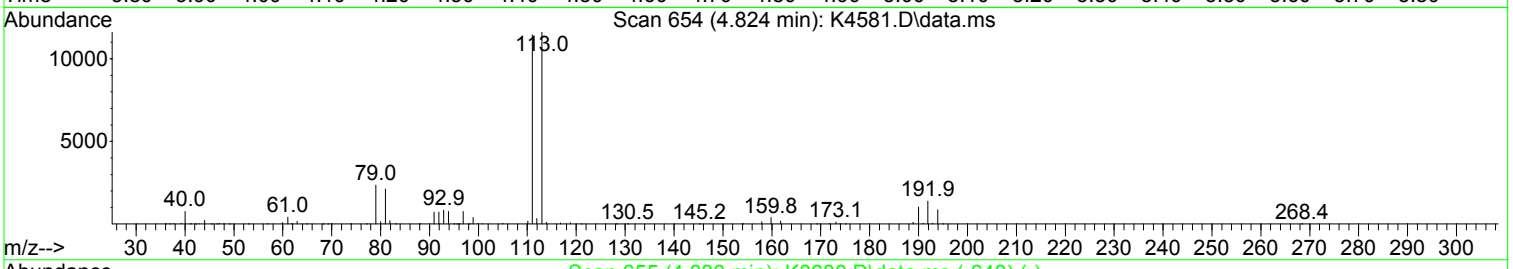
07/31/24

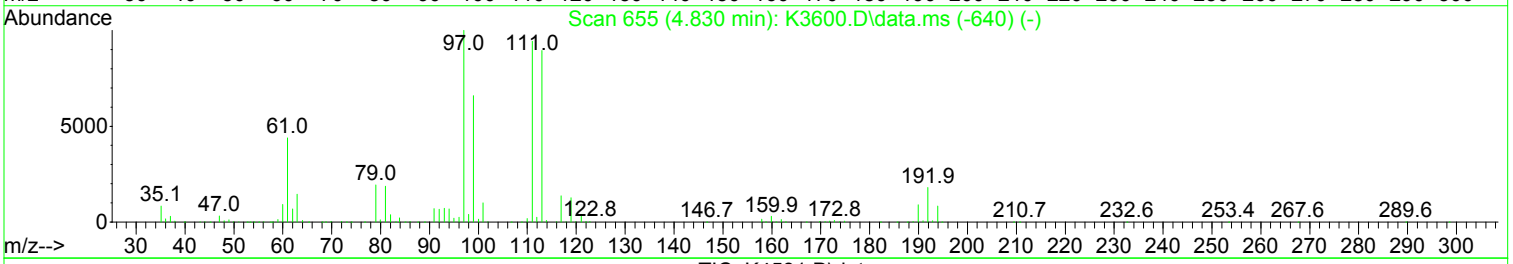
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(40) 1,1,1-Trichloroethane (P)

4.824min (-0.006) 0.51 ug/L m

response 2649

Ion	Exp%	Act%
97.00	100.00	100.00
99.00	66.00	52.76
61.00	44.00	55.25
0.00	0.00	0.00

Manual Integration:

After

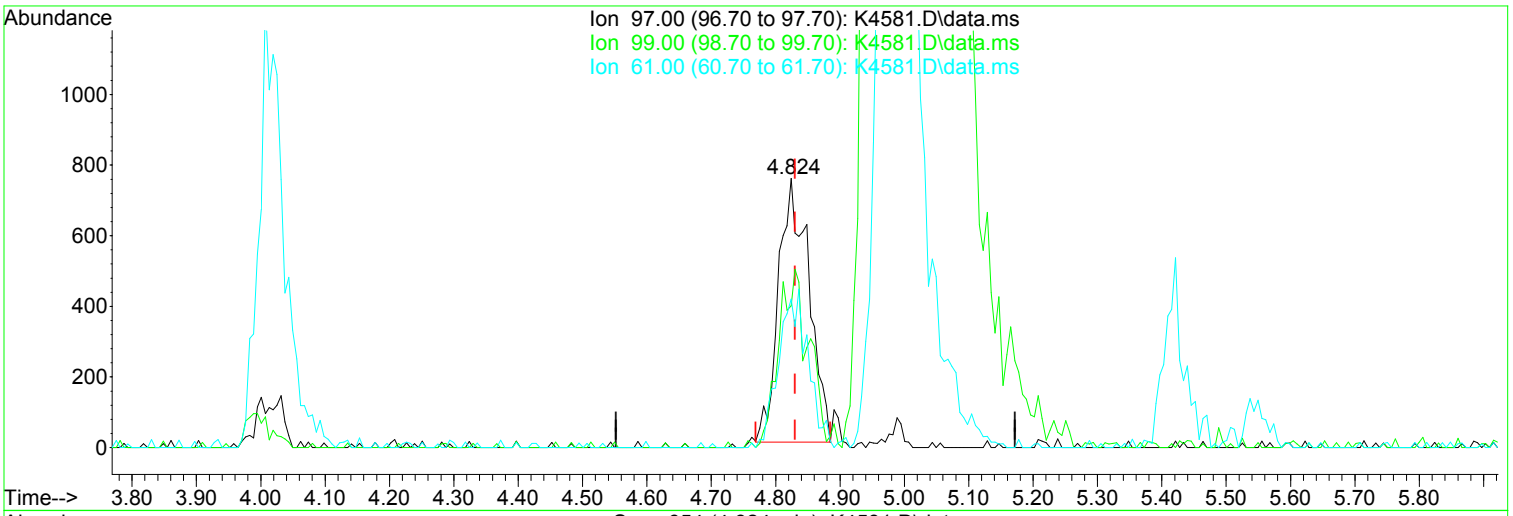
Poor integration.

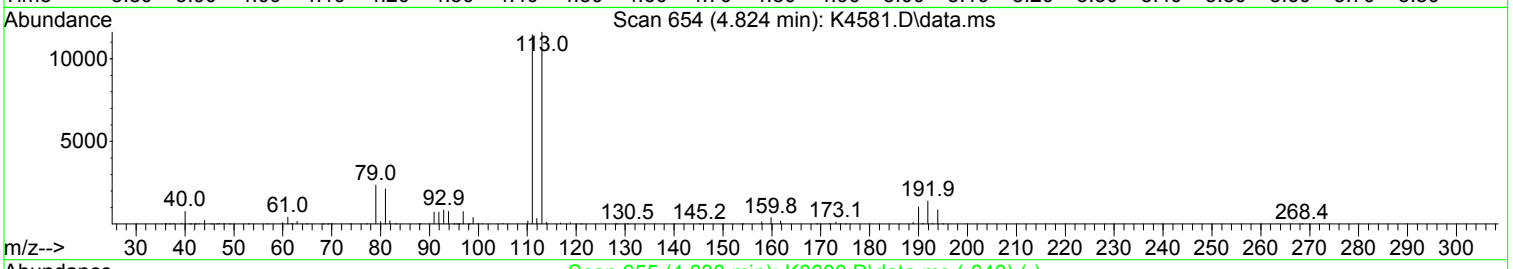
07/31/24

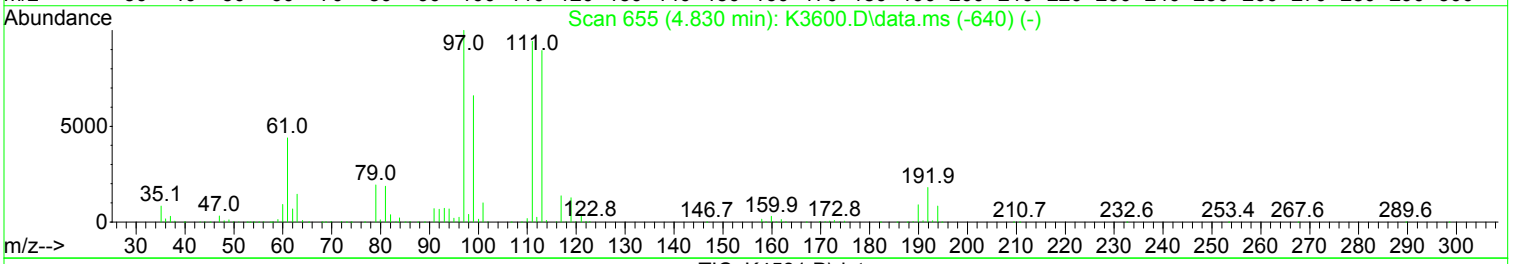
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(40) 1,1,1-Trichloroethane (P)

4.824min (-0.006) 0.47 ug/L

response 2434

Ion	Exp%	Act%
97.00	100.00	100.00
99.00	66.00	52.76
61.00	44.00	55.25
0.00	0.00	0.00

Manual Integration:

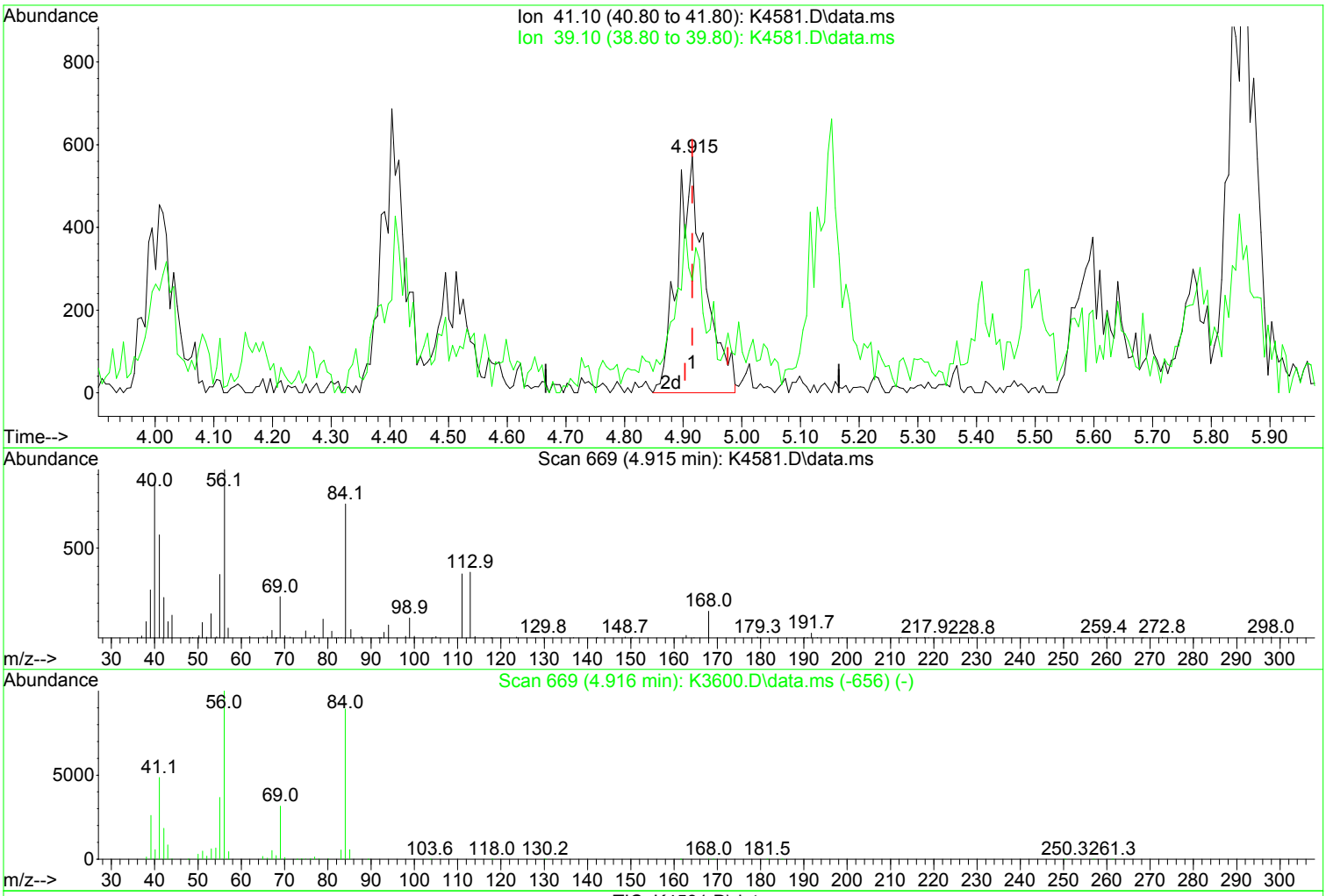
Before

07/31/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



TIC: K4581.D\data.ms

(43) Cyclohexane (P)

4.915min (-0.000) 0.53 ug/L m

response 1910

Ion	Exp%	Act%
41.10	100.00	100.00
39.10	54.10	47.64
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

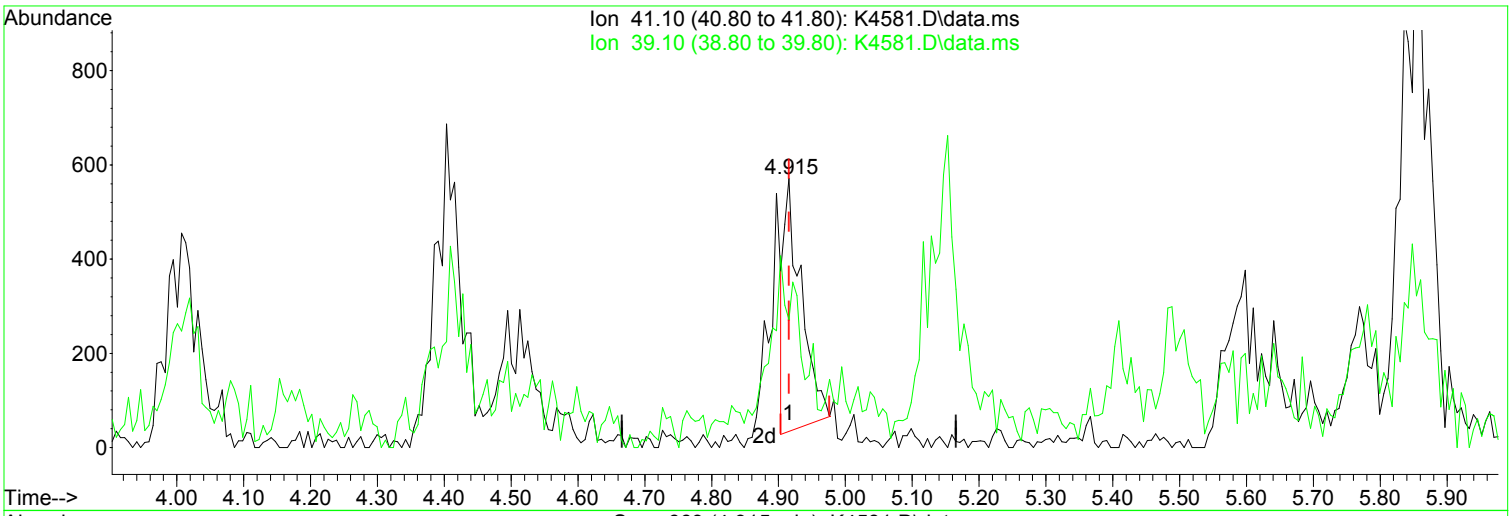
Split Peak.

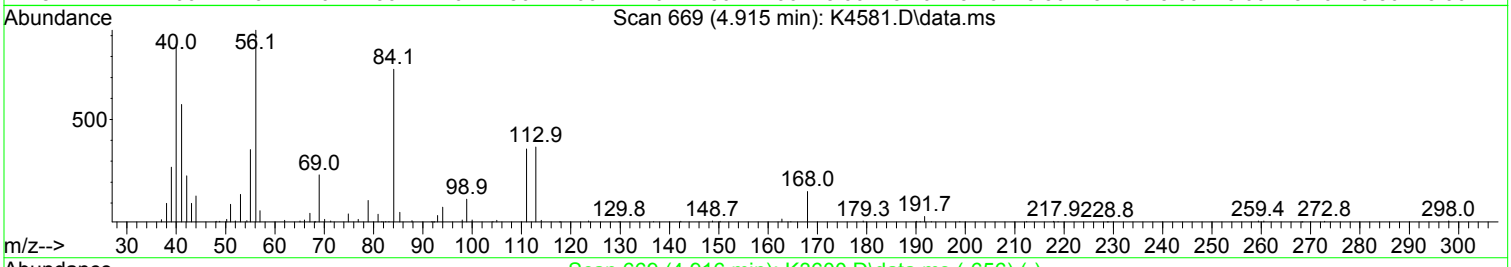
07/31/24

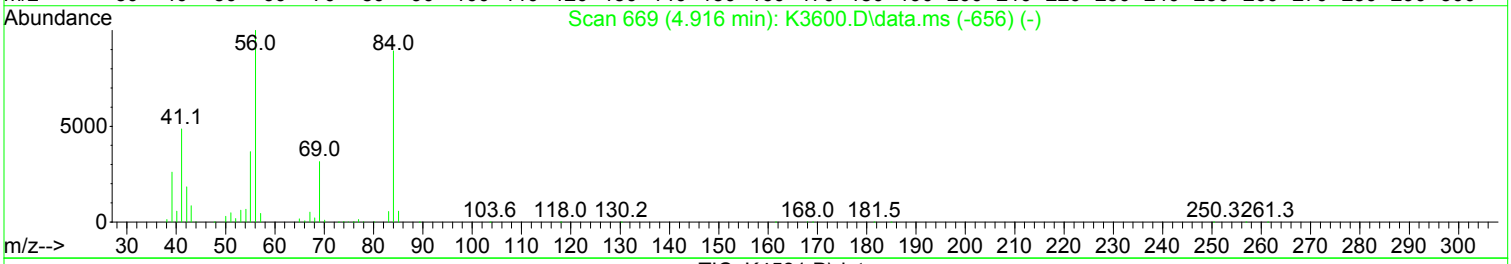
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(43) Cyclohexane (P)

4.915min (-0.000) 0.27 ug/L

response 968

Ion	Exp%	Act%
41.10	100.00	100.00
39.10	54.10	47.64
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

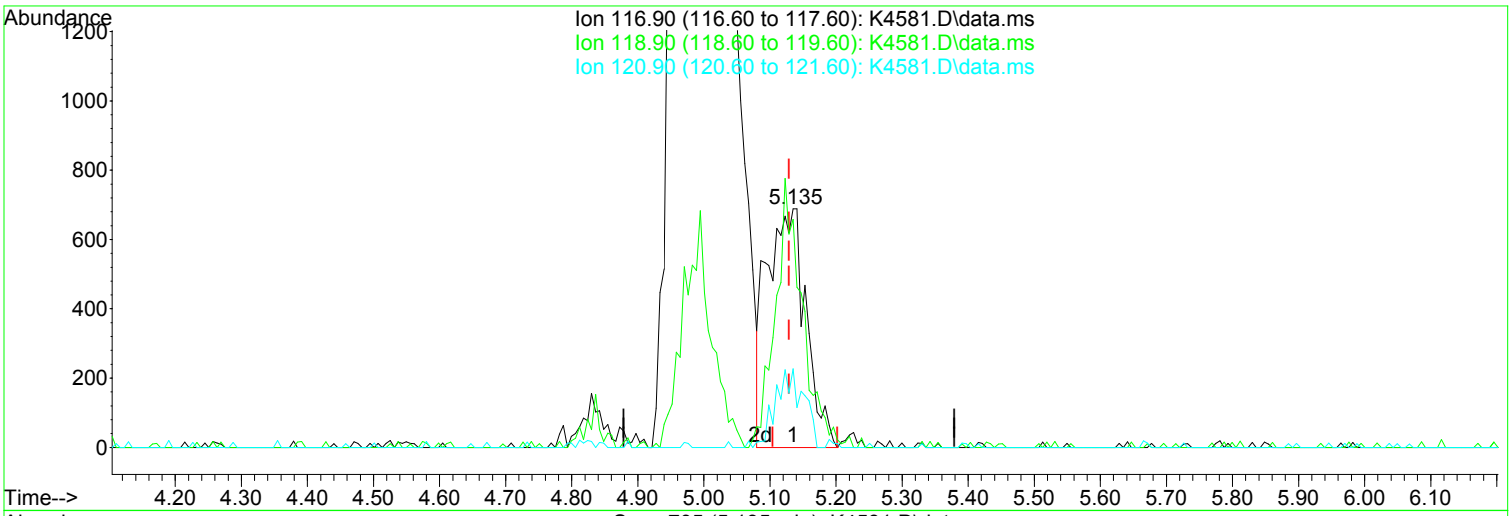
Before

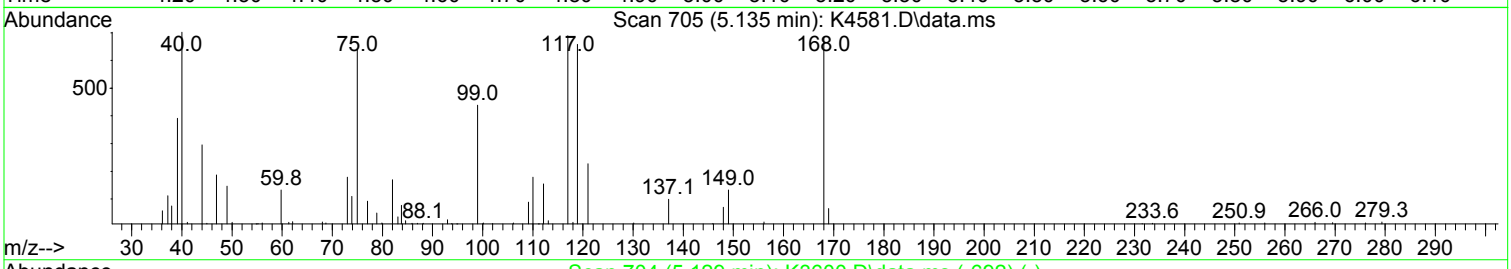
07/31/24

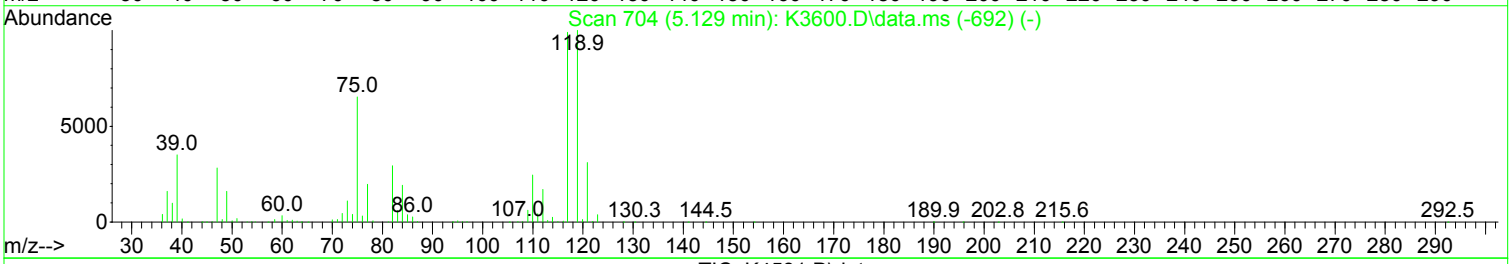
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(45) Carbontetrachloride (P)

5.135min (+ 0.006) 0.58 ug/L m

response 2831

Ion	Exp%	Act%
116.90	100.00	100.00
118.90	98.90	95.50
120.90	30.70	32.95
0.00	0.00	0.00

Manual Integration:

After

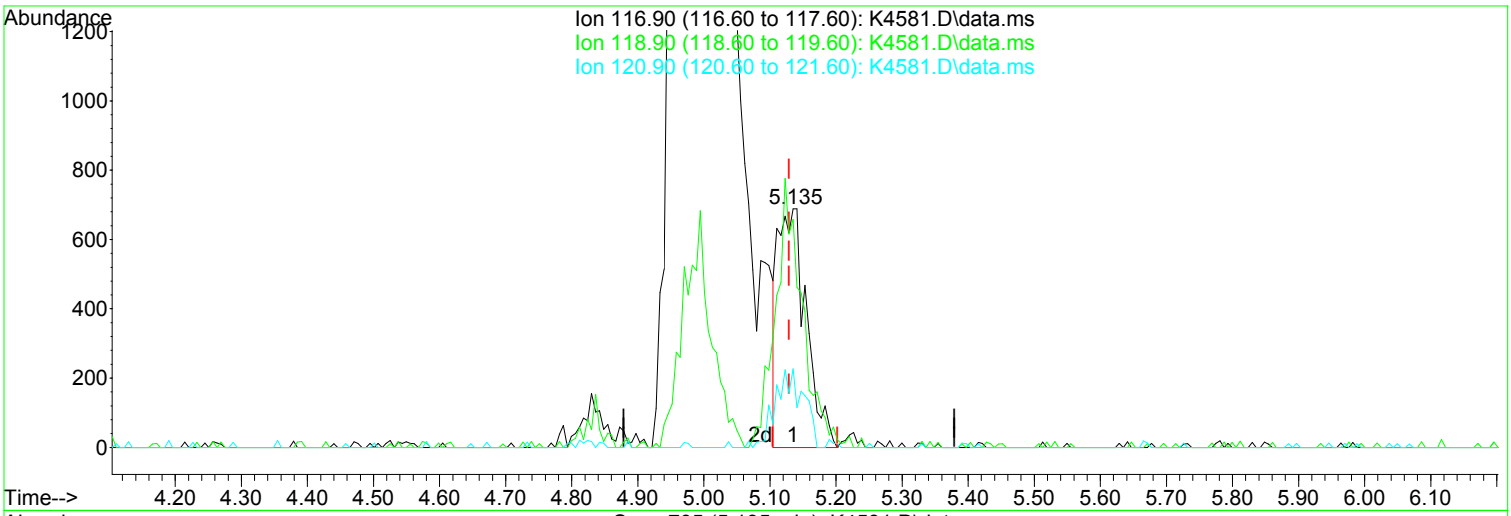
Poor integration.

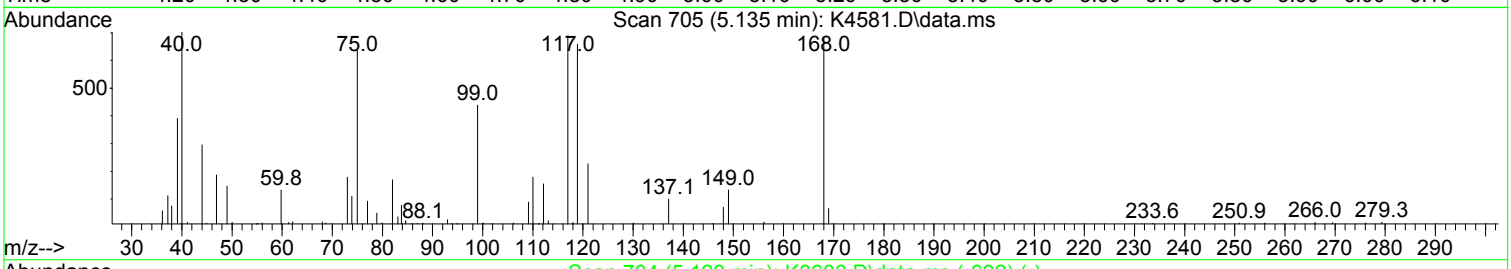
07/31/24

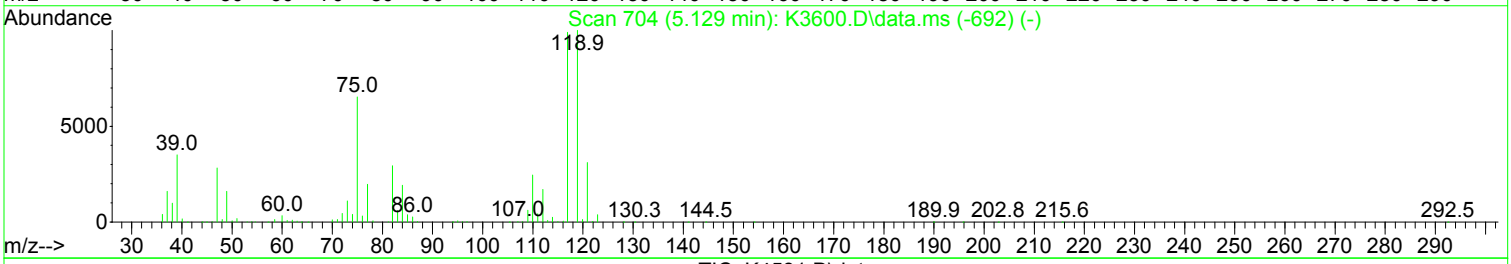
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(45) Carbontetrachloride (P)

5.135min (+ 0.006) 0.43 ug/L

response 2070

Ion	Exp%	Act%
116.90	100.00	100.00
118.90	98.90	95.50
120.90	30.70	32.95
0.00	0.00	0.00

Manual Integration:

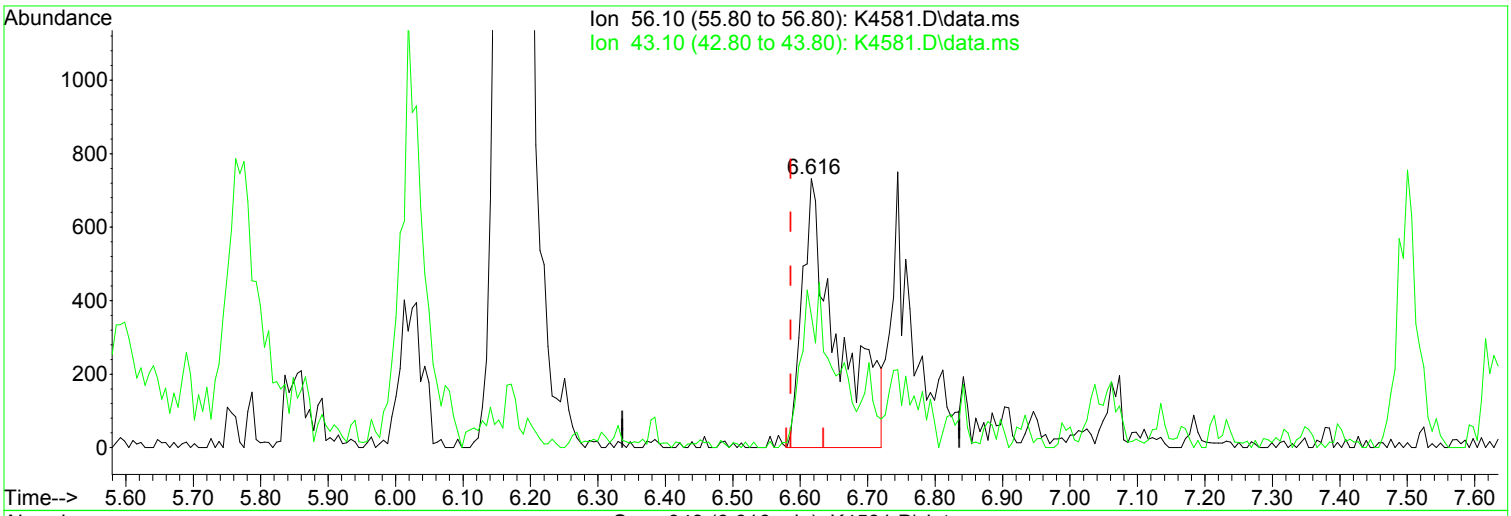
Before

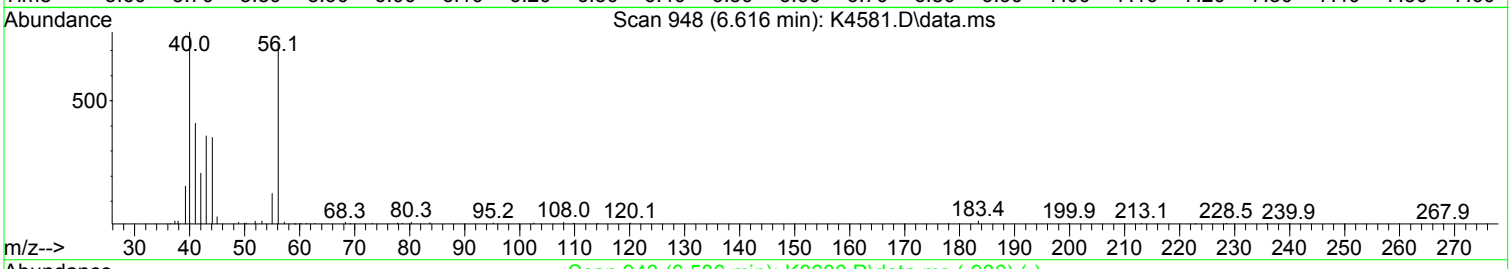
07/31/24

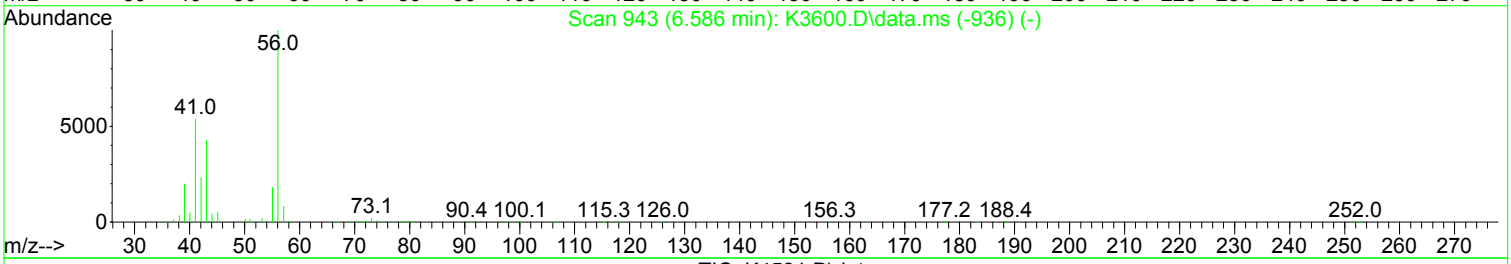
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(52) 1-Butanol

6.616min (+ 0.030) 12.98 ug/L m

response 2663

Ion	Exp%	Act%
56.10	100.00	100.00
43.10	42.60	49.18
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

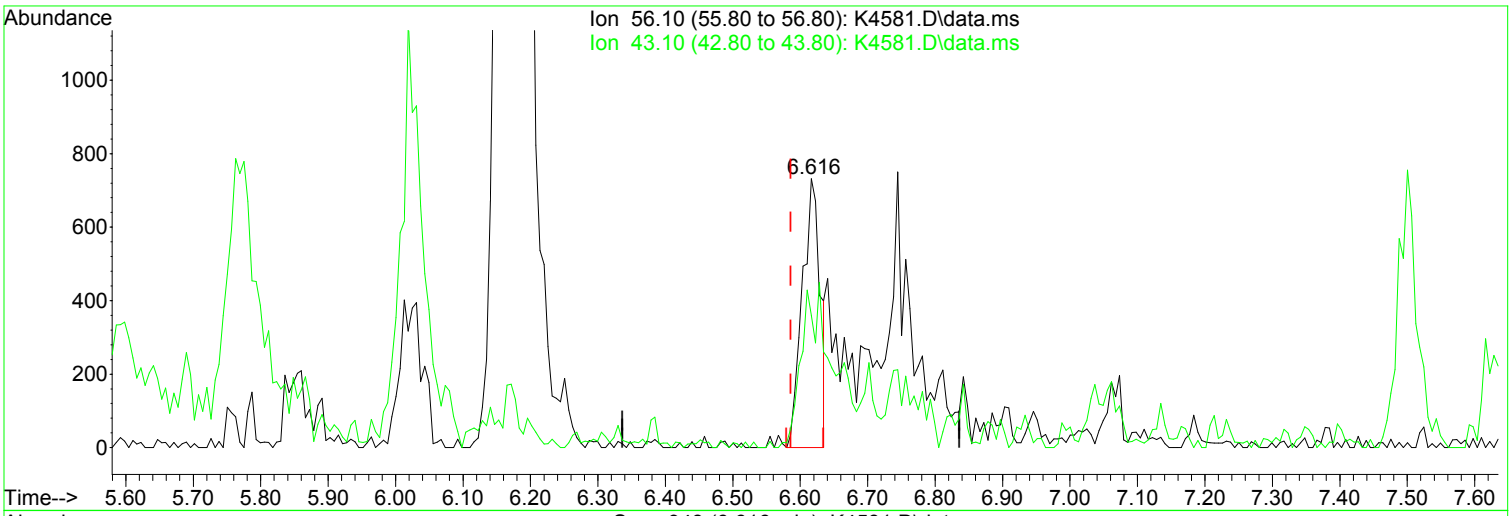
Poor integration.

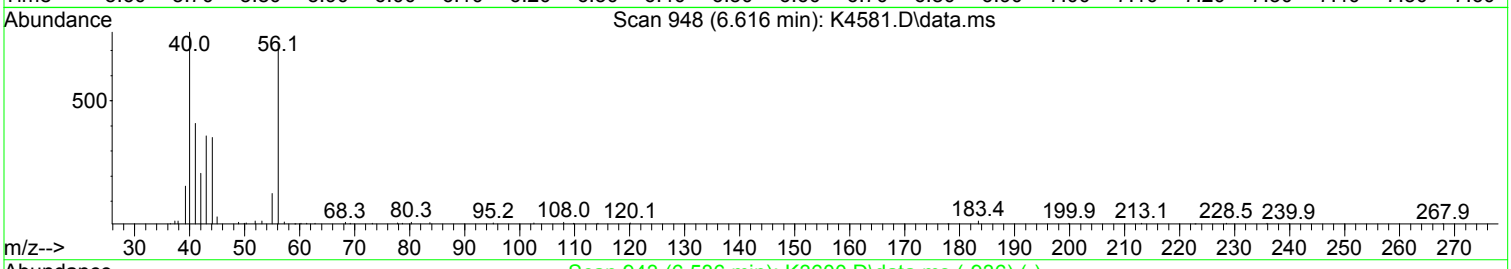
07/31/24

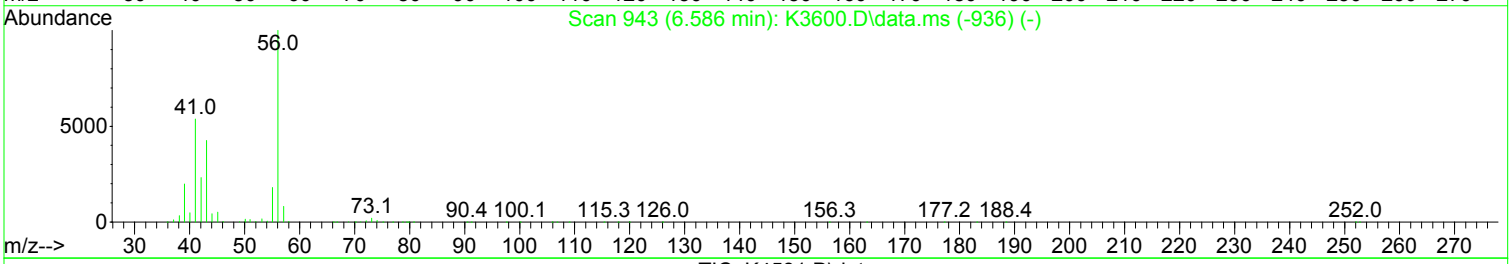
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(52) 1-Butanol

6.616min (+ 0.030) 6.58 ug/L

response 1351

Ion	Exp%	Act%
56.10	100.00	100.00
43.10	42.60	49.18
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

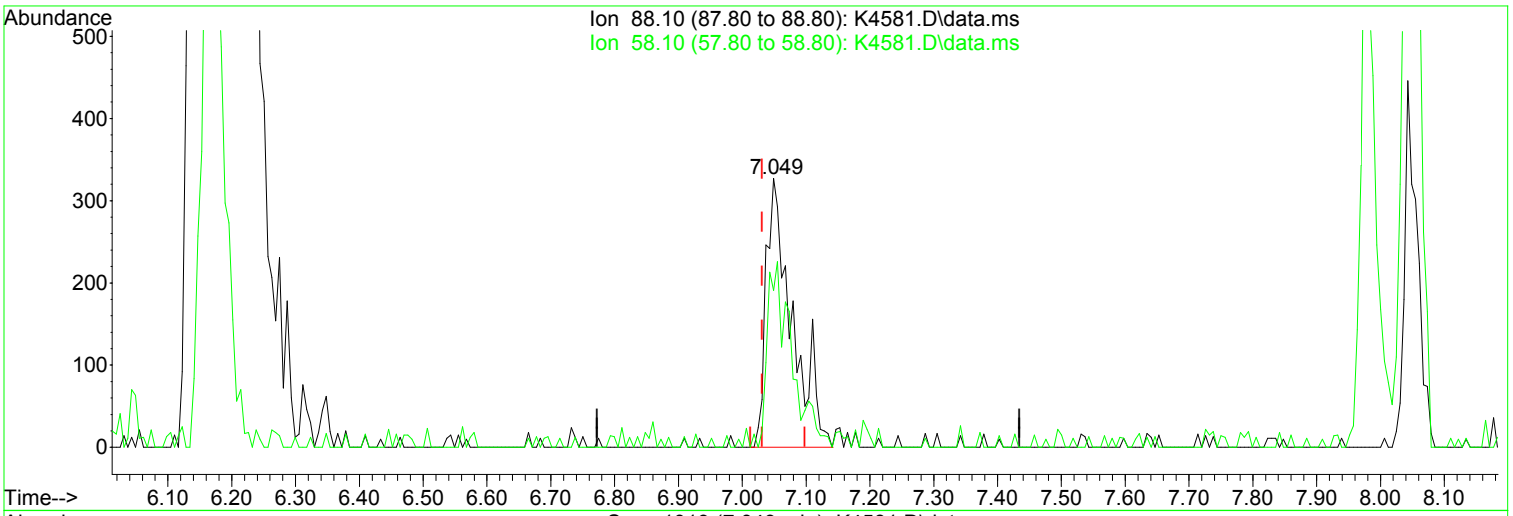
Before

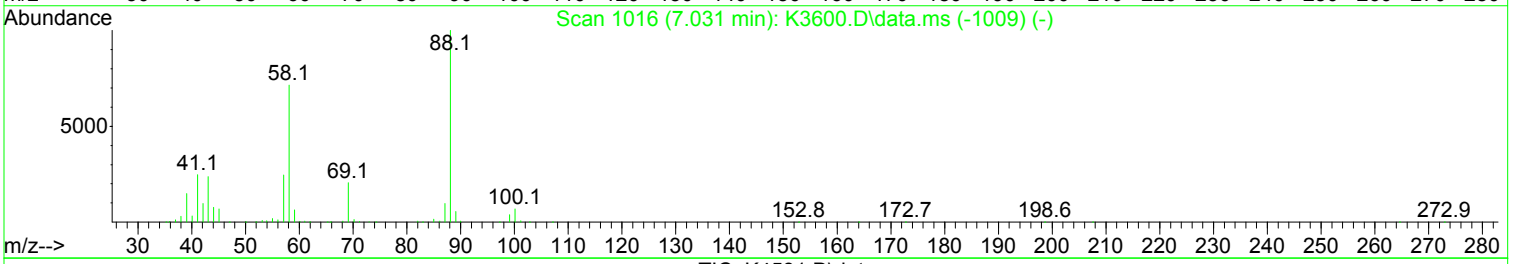
07/31/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration





TIC: K4581.D\data.ms

(57) 1,4-Dioxane

7.049min (+ 0.018) 11.03 ug/L m

response 921

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	71.50	58.41
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

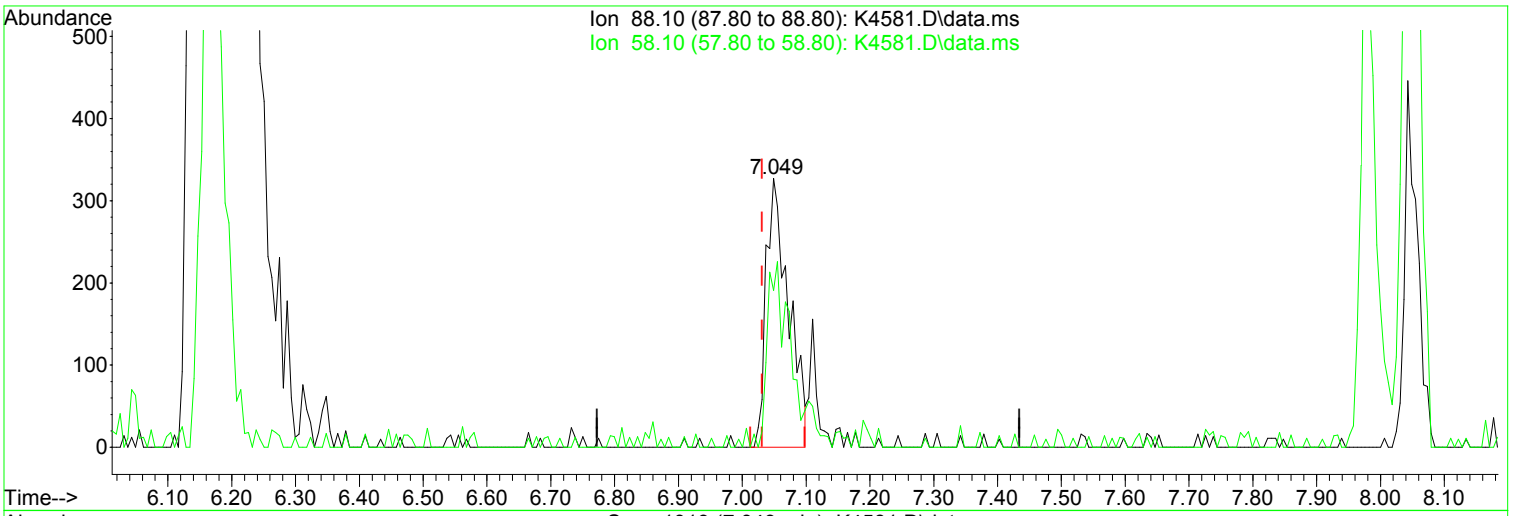
Poor integration.

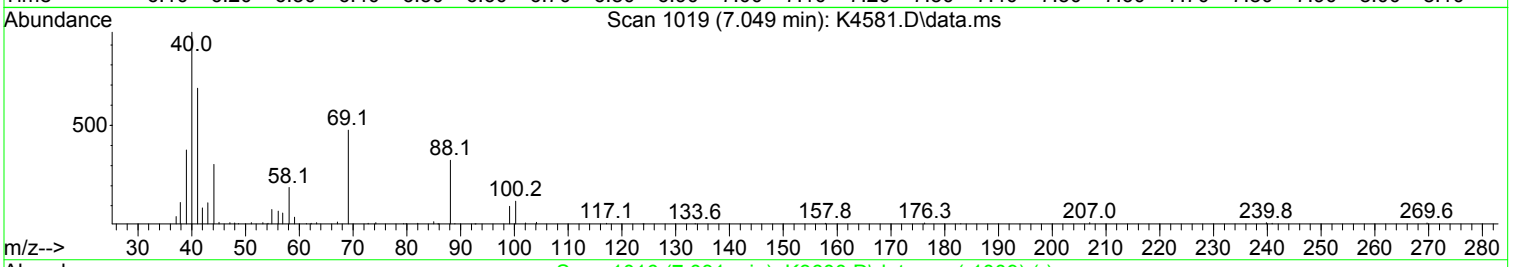
07/31/24

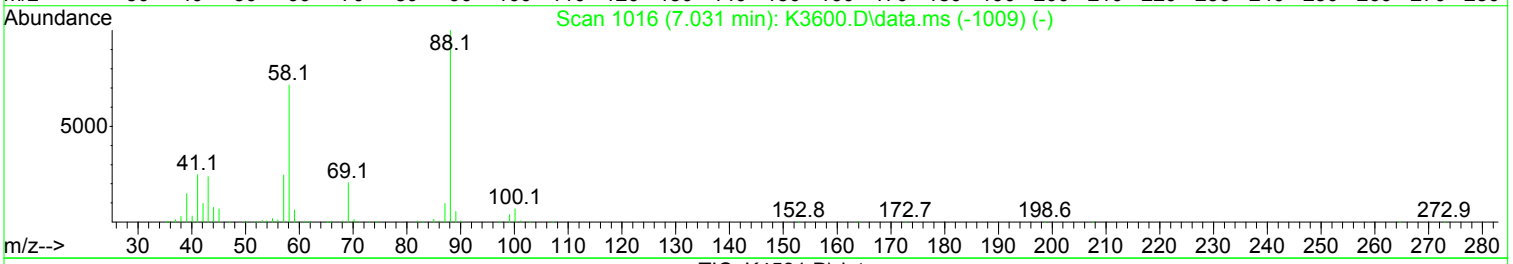
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(57) 1,4-Dioxane

7.049min (+ 0.018) 9.54 ug/L

response 797

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	71.50	58.41
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

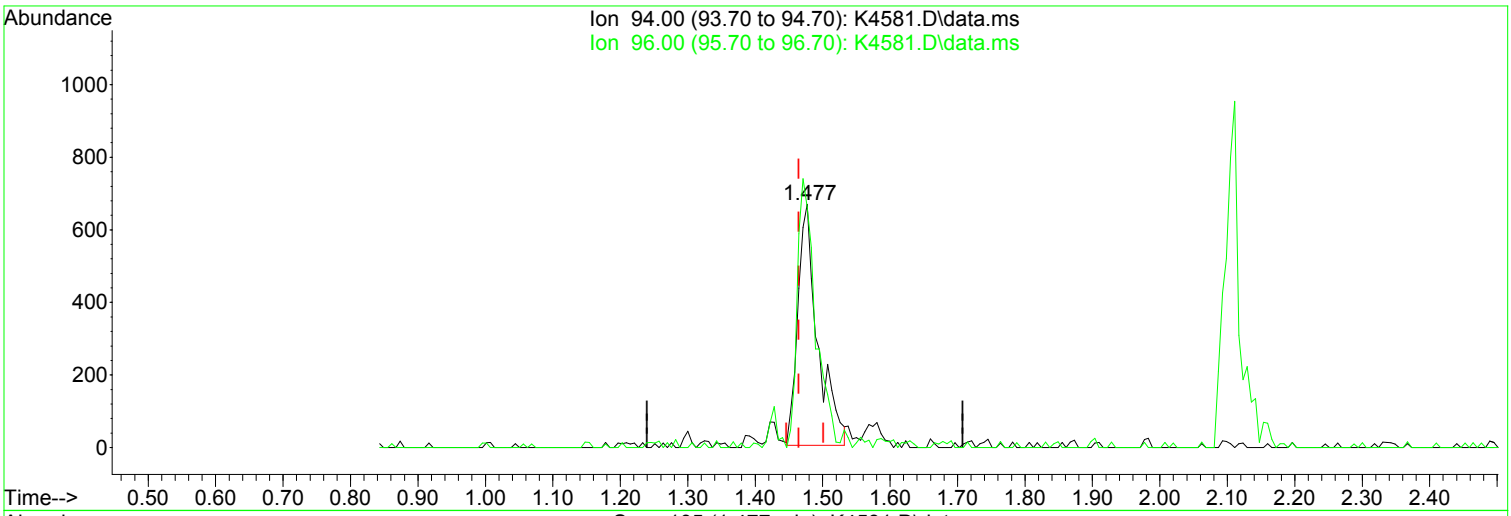
Before

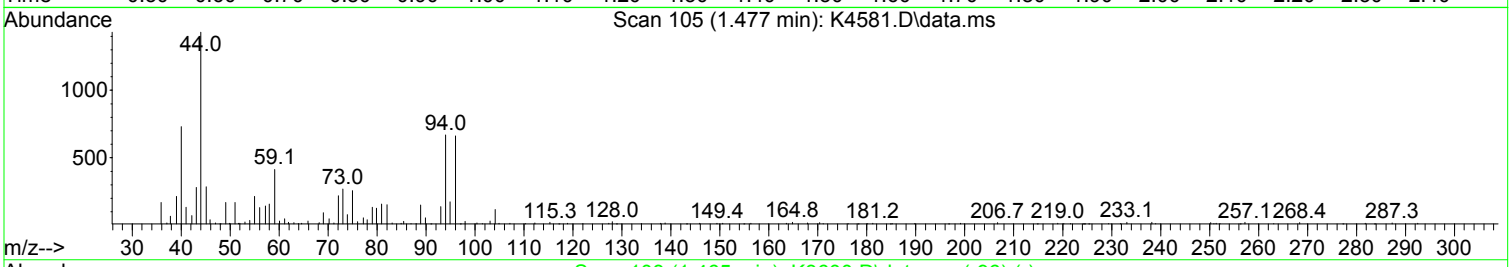
07/31/24

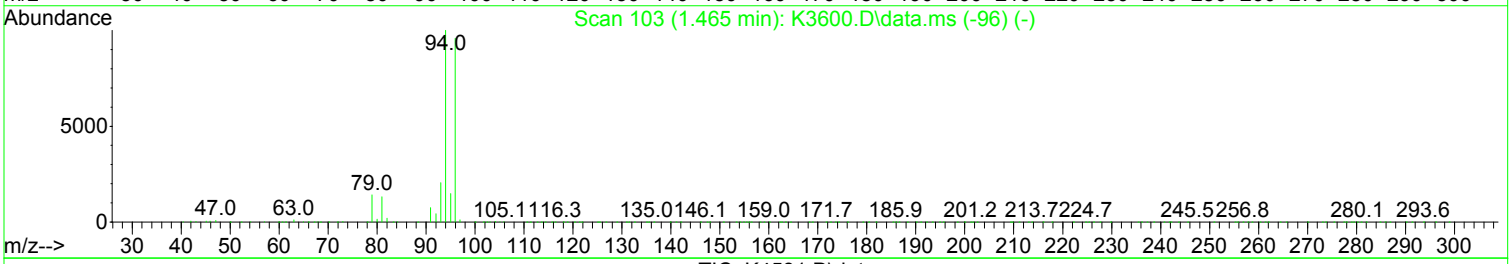
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(6) Bromomethane (P)

1.477min (+ 0.012) 0.69 ug/L m

response 1361

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	95.80	98.81
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

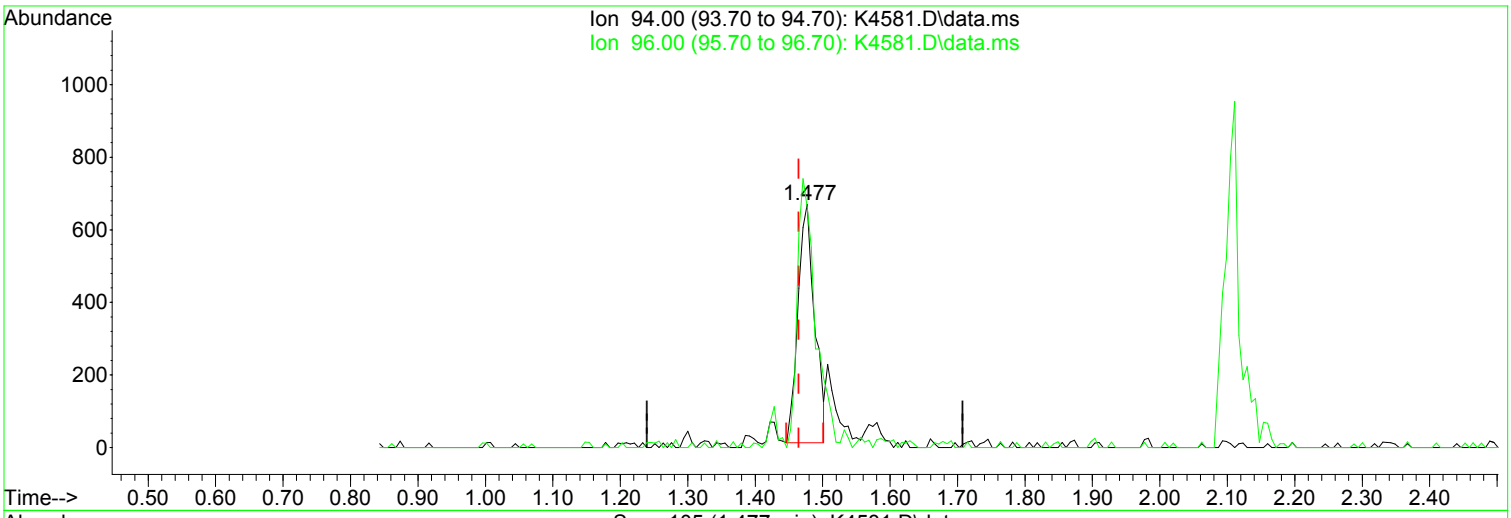
Split Peak.

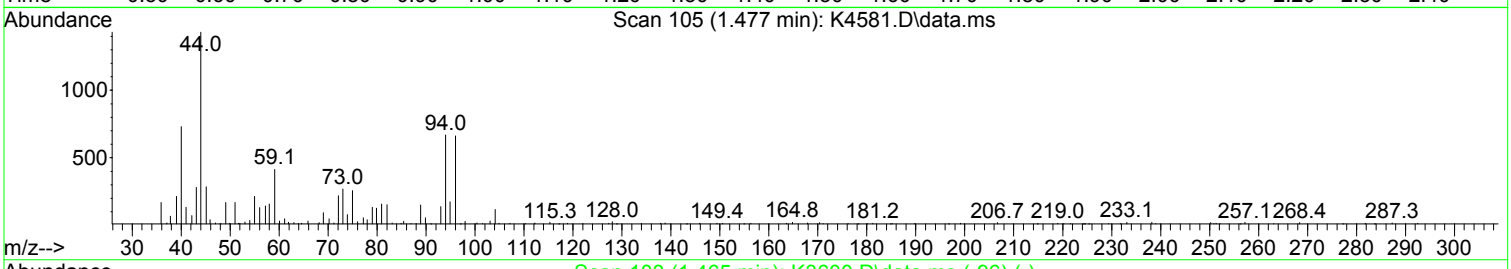
07/31/24

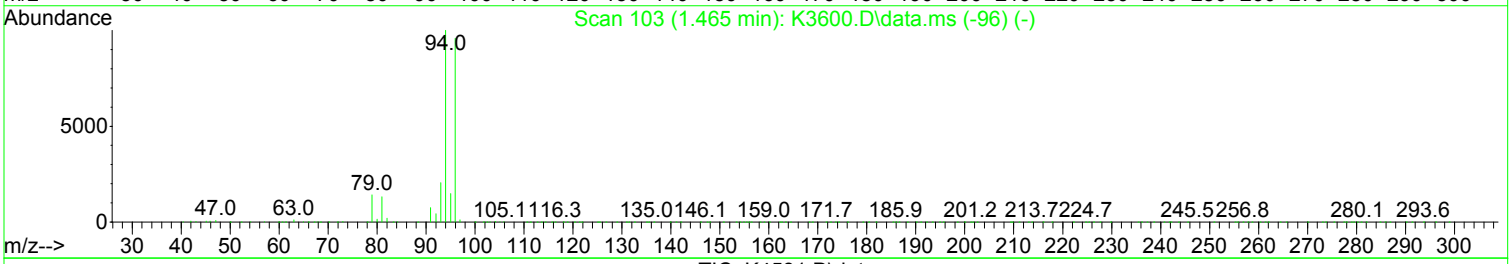
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(6) Bromomethane (P)

1.477min (+ 0.012) 0.57 ug/L

response 1124

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	95.80	98.81
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

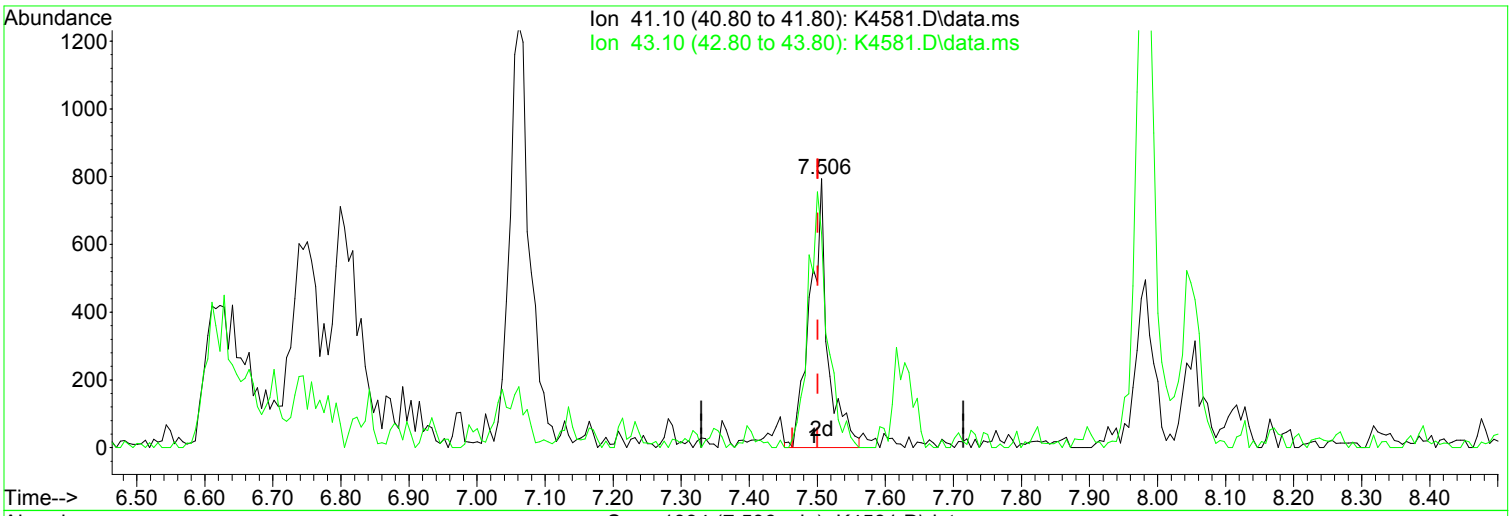
Before

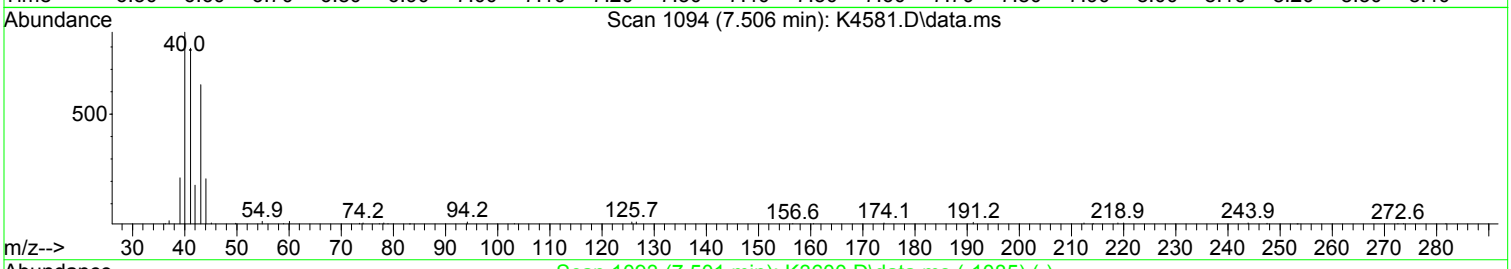
07/31/24

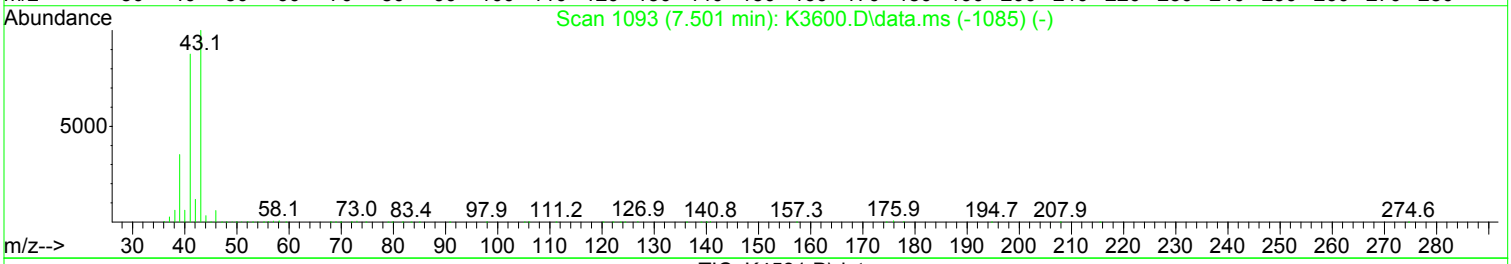
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(60) 2-Nitropropane

7.506min (+ 0.006) 0.85 ug/L m

response 1416

Ion	Exp%	Act%
41.10	100.00	100.00
43.10	114.10	79.47#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

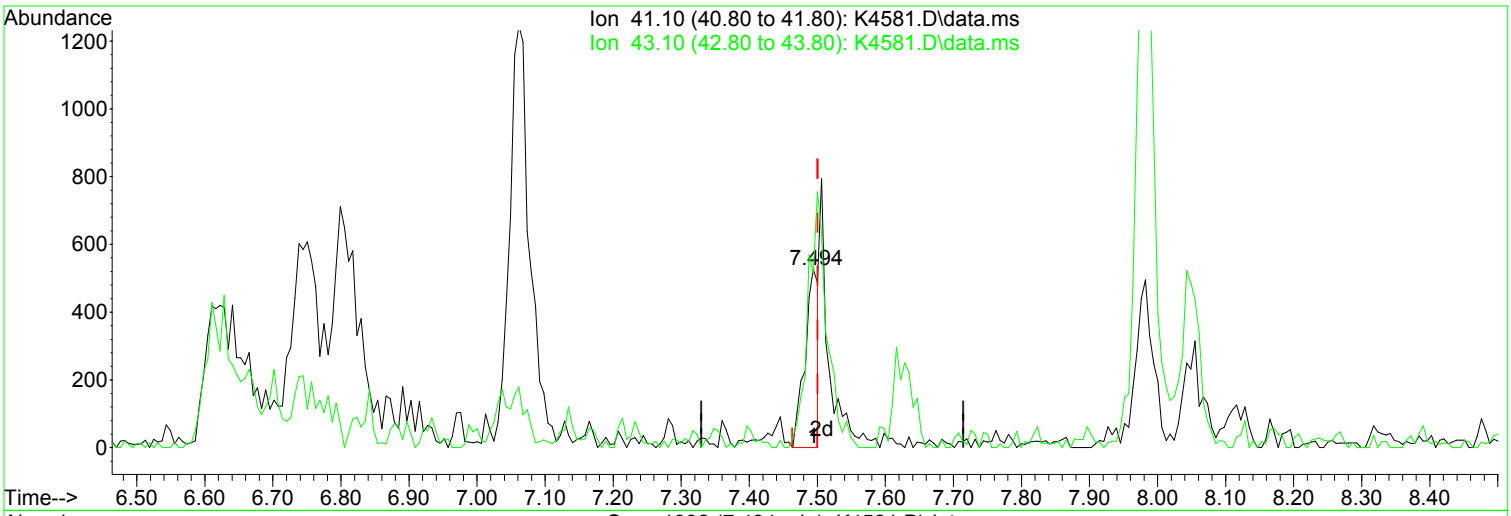
Split Peak.

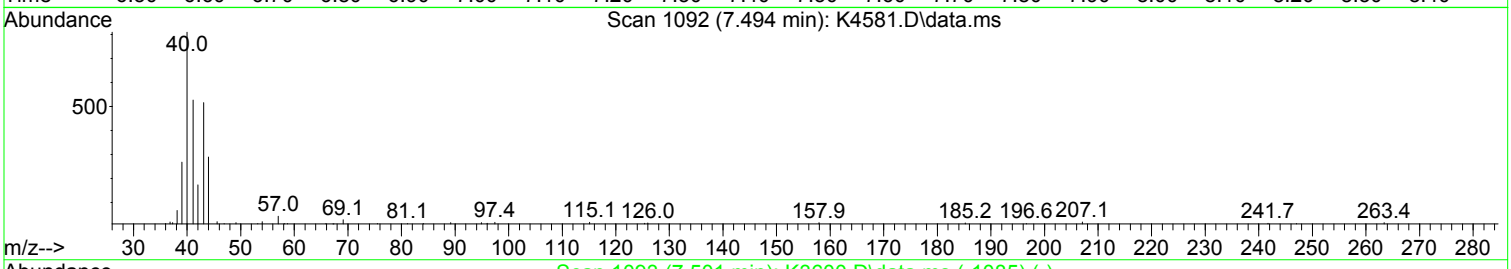
07/31/24

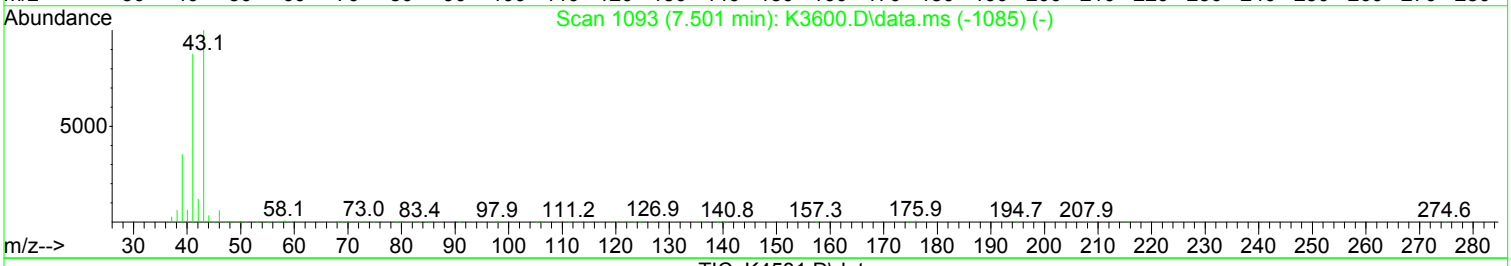
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(60) 2-Nitropropane

7.494min (-0.006) 0.44 ug/L

response 726

Ion	Exp%	Act%
41.10	100.00	100.00
43.10	114.10	97.91
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

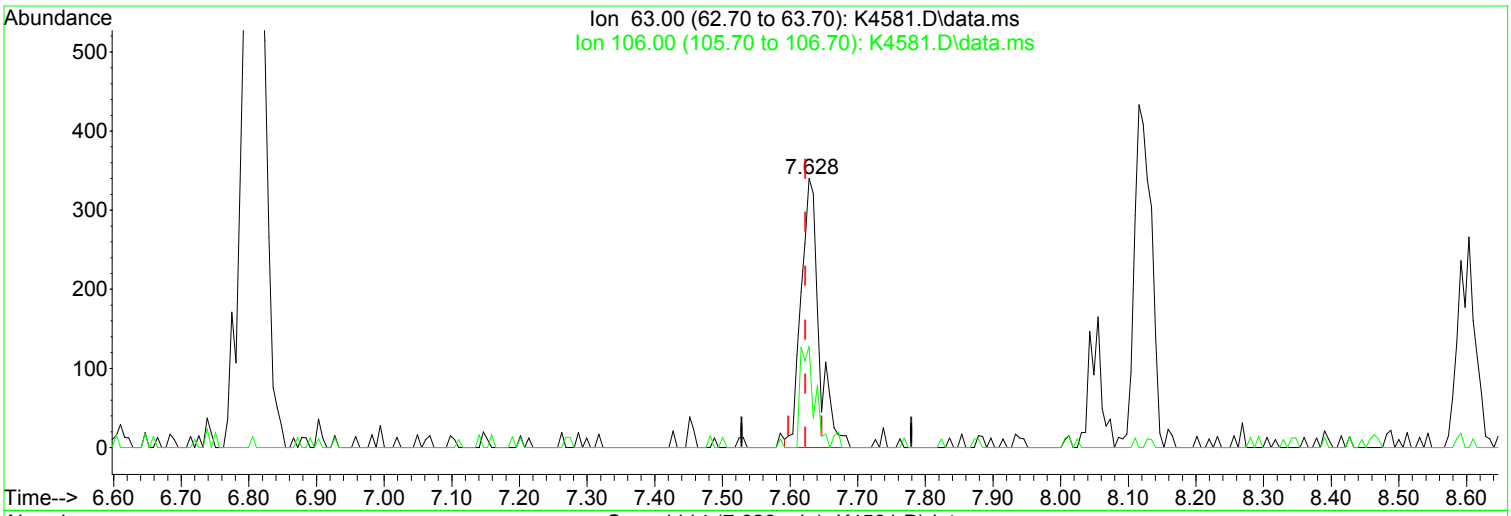
Before

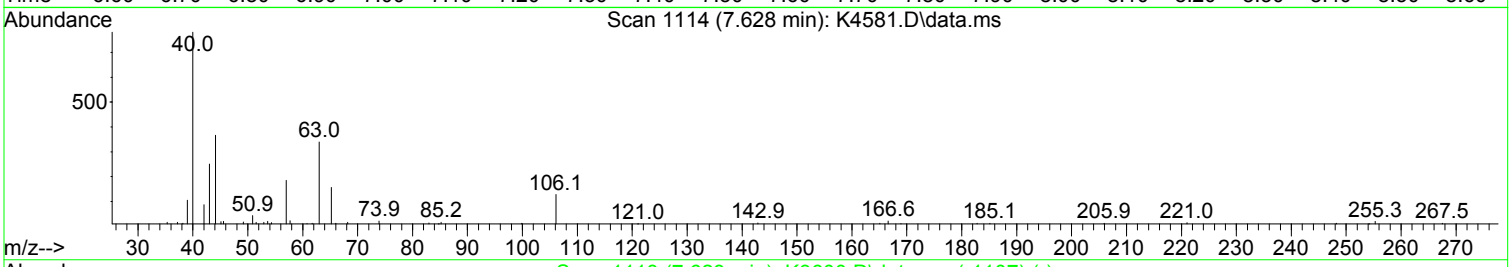
07/31/24

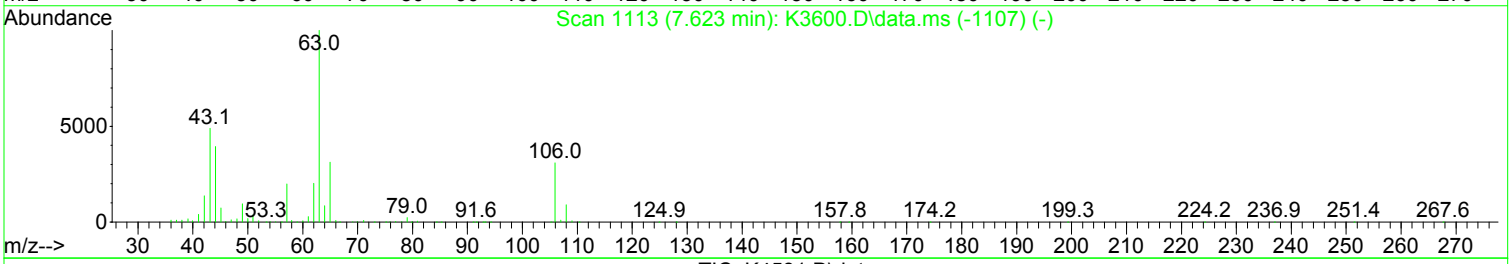
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(61) 2-Chloroethylvinyl Ether

7.628min (+ 0.006) 0.50 ug/L m

response 632

Ion	Exp%	Act%
63.00	100.00	100.00
106.00	30.70	37.65
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

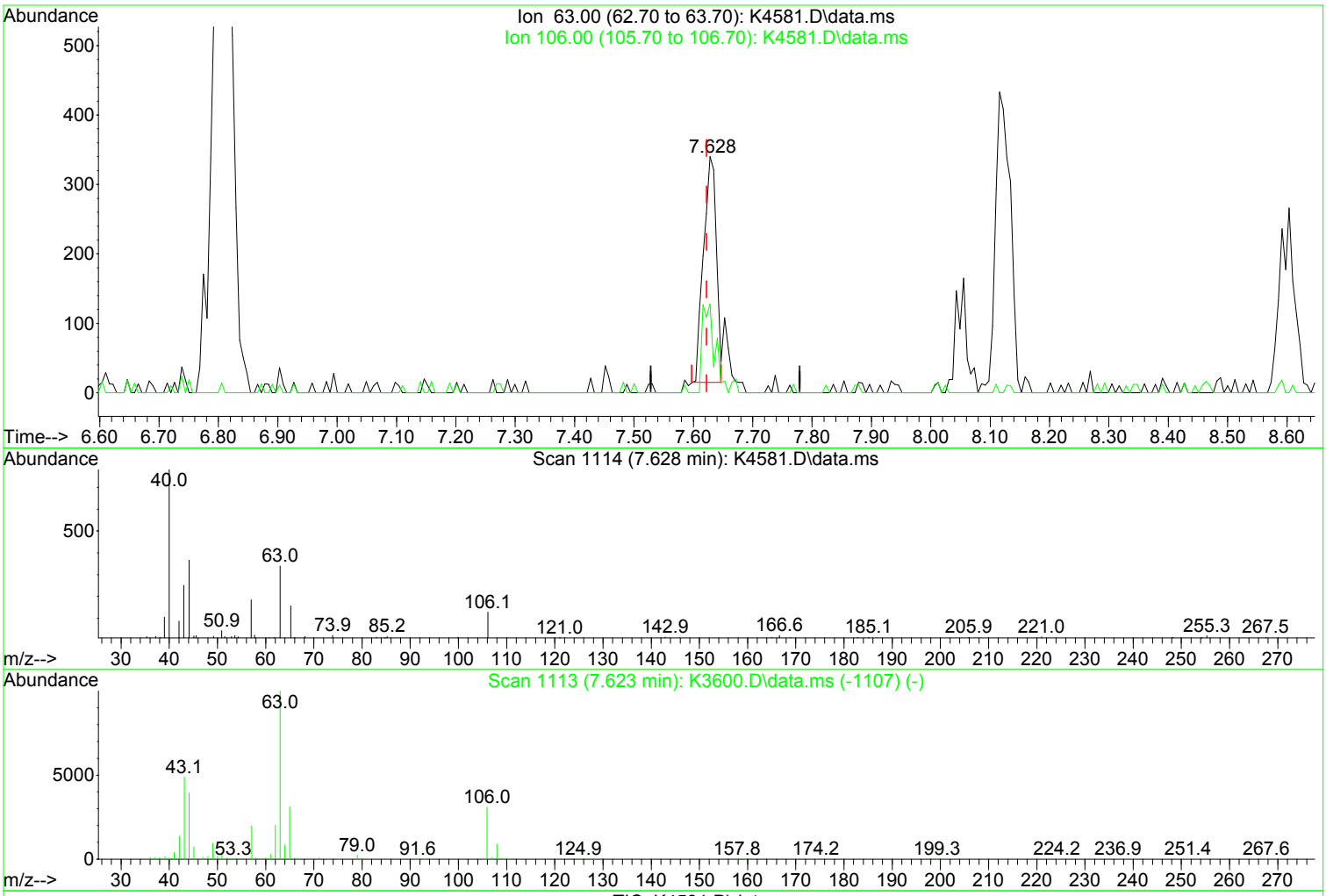
Poor integration.

07/31/24

1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



TIC: K4581.D\data.ms

(61) 2-Chloroethylvinyl Ether

7.628min (+ 0.006) 0.39 ug/L

response 494

Ion	Exp%	Act%
63.00	100.00	100.00
106.00	30.70	37.65
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

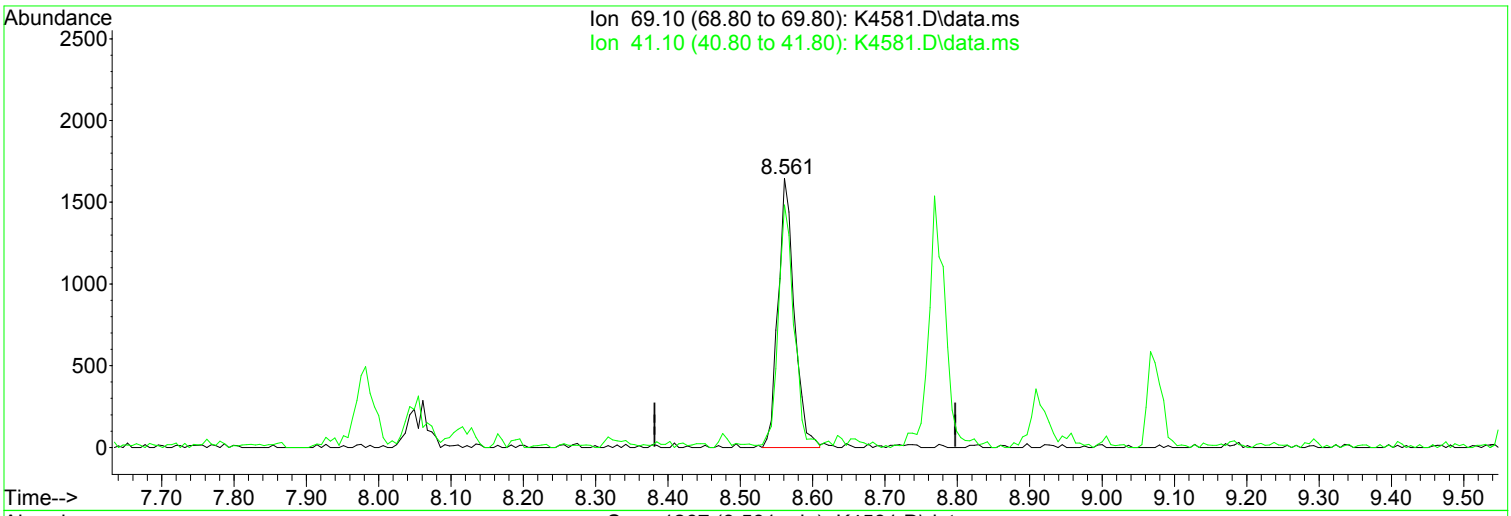
Before

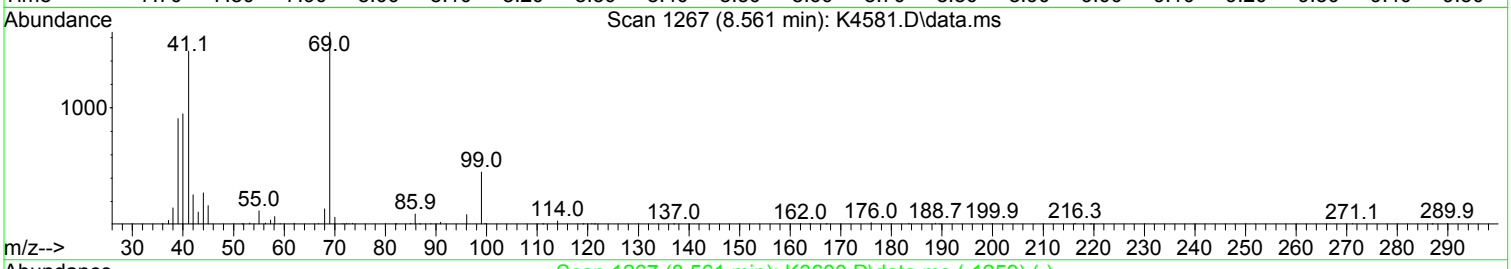
07/31/24

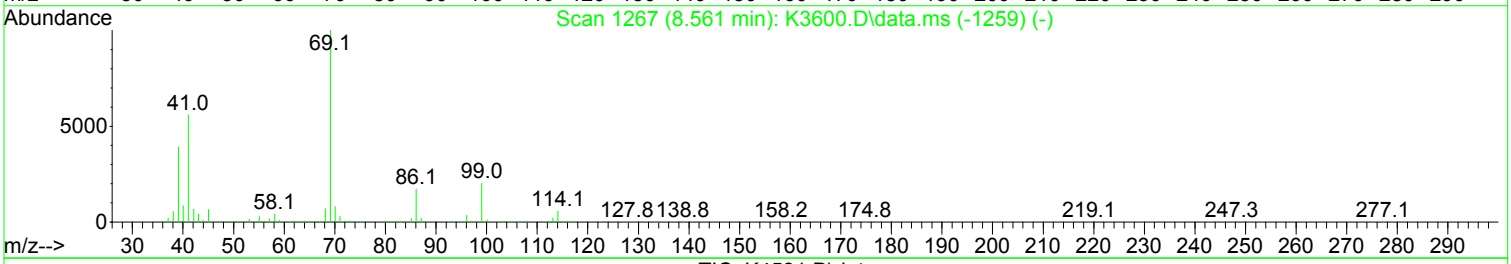
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(67) Ethyl Methacrylate

8.561min (-0.000) 0.45 ug/L m

response 2559

Ion	Exp%	Act%
69.10	100.00	100.00
41.10	55.90	90.15#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

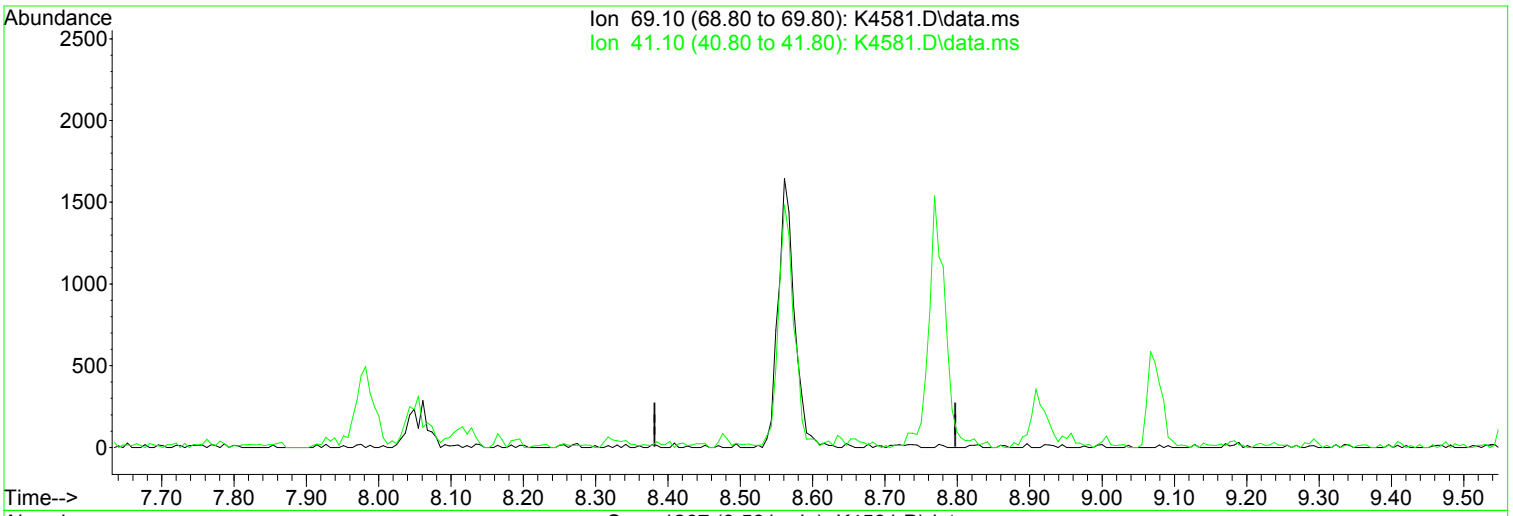
Peak not found.

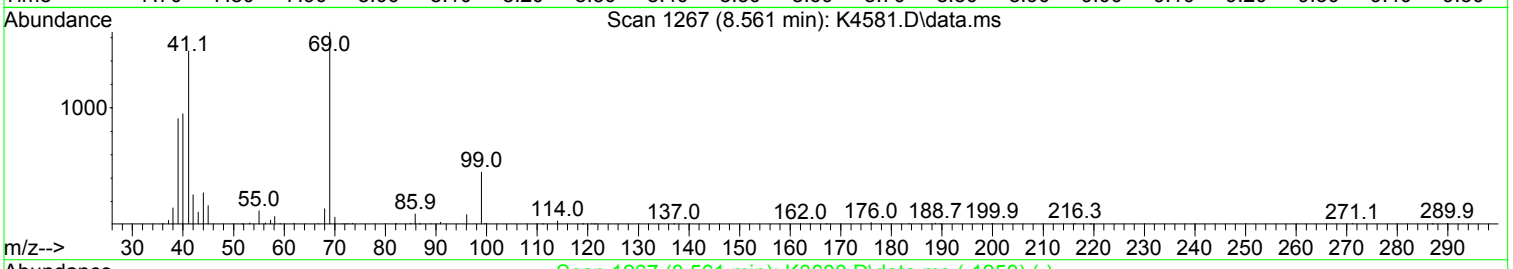
07/31/24

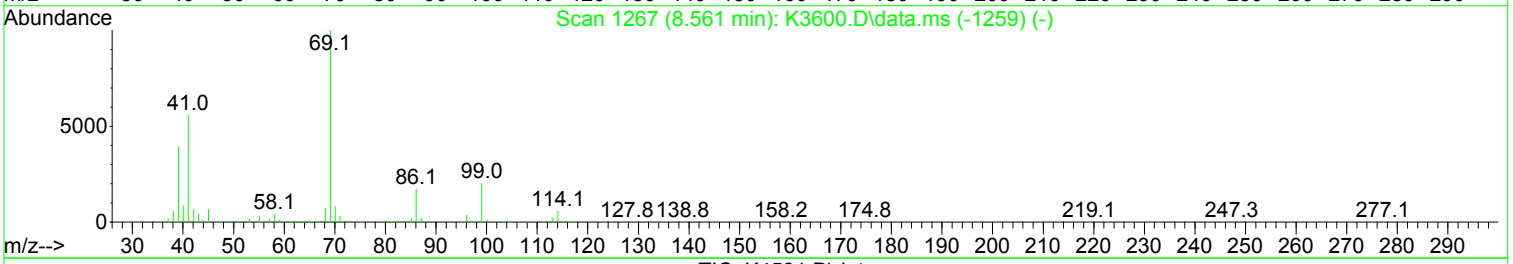
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(67) Ethyl Methacrylate

8.561min (-8.561) 0.00 ug/L

response 0

Ion	Exp%	Act%
69.10	100.00	0.00
41.10	55.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

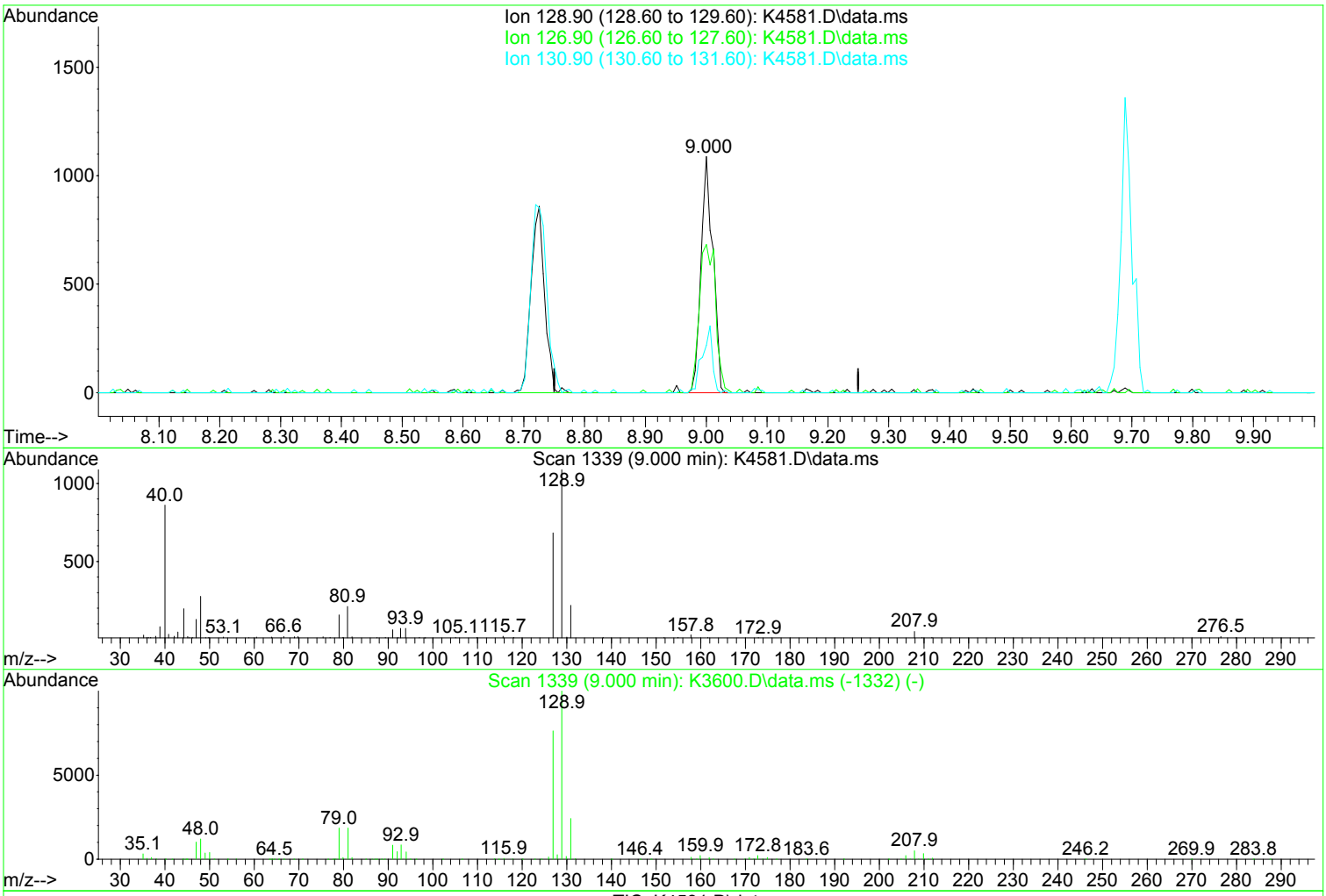
Before

07/31/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



TIC: K4581.D\data.ms

(74) Dibromochloromethane (P)

9.000min (-0.000) 0.40 ug/L m

response 1486

Ion	Exp%	Act%
128.90	100.00	100.00
126.90	76.30	62.78
130.90	24.20	20.04
0.00	0.00	0.00

Manual Integration:

After

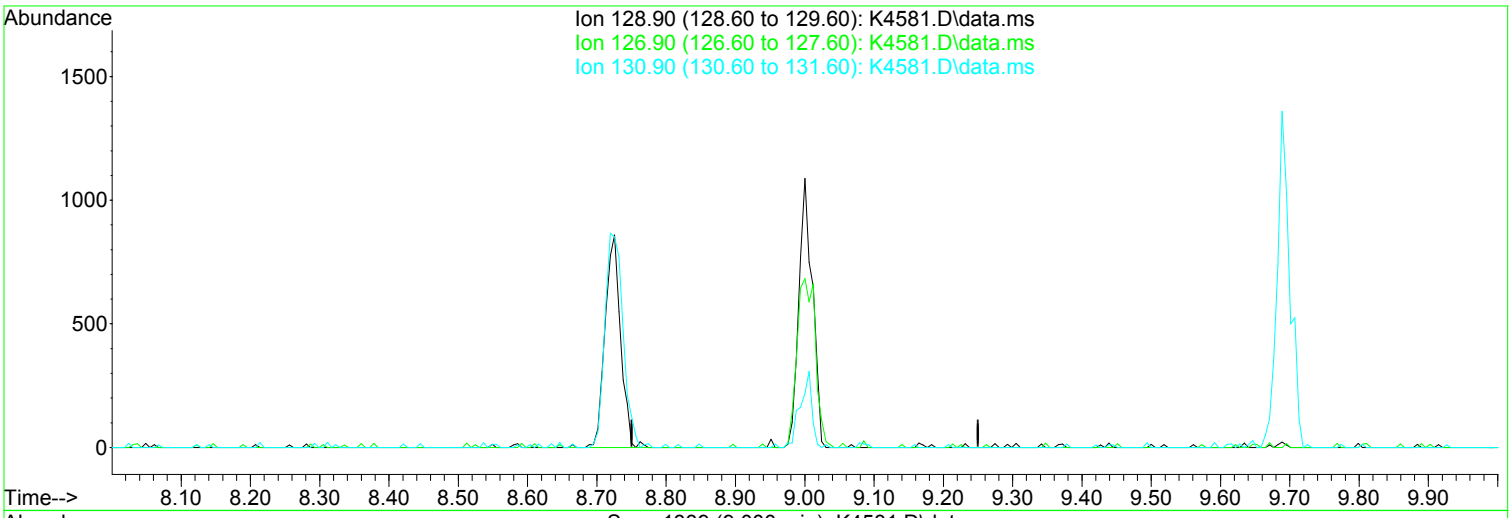
Peak not found.

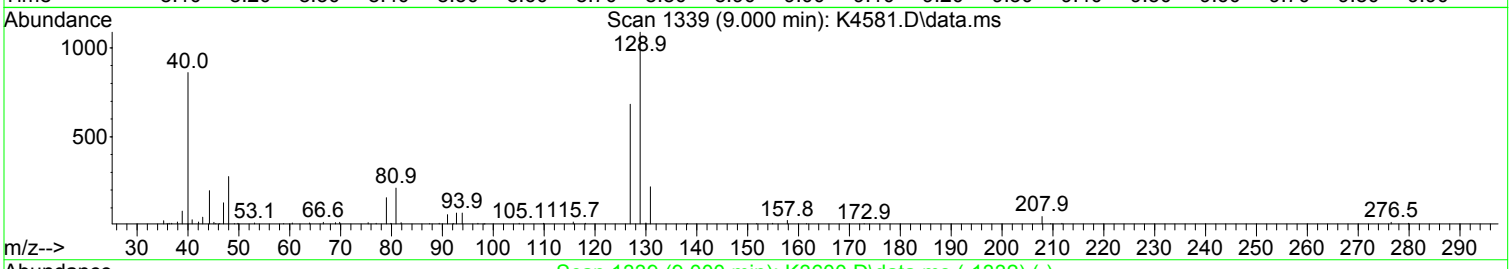
07/31/24

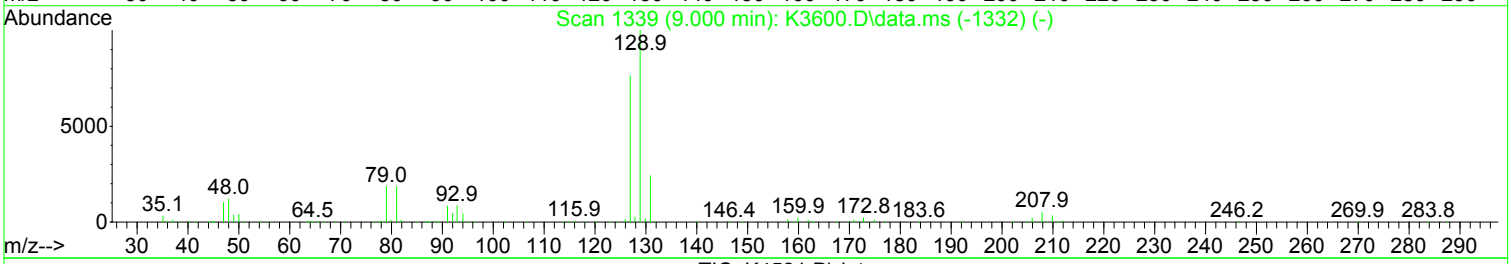
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4581.D\data.ms

(74) Dibromochloromethane (P)

9.000min (-9.000) 0.00 ug/L

response 0

Ion	Exp%	Act%
128.90	100.00	0.00
126.90	76.30	0.00#
130.90	24.20	0.00#
0.00	0.00	0.00

Manual Integration:

Before

07/31/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.995	168	364008	50.00	ug/L		0.00
42) 1,4-Difluorobenzene	6.171	114	609855	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.573	117	527319	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	230648	50.00	ug/L		0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.824	113	38697	10.17	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 20.34%#				
47) surr1,1,2-dichloroetha...	5.415	65	57248	11.01	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 22.02%#				
64) SURR3,Toluene-d8	8.049	98	152784	10.94	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 21.88%#				
69) SURR2,BFB	10.664	95	59829	10.90	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 21.80%#				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.081	51	2746	0.554	ug/L		90
3) Dichlorodifluoromethane	1.075	85	2286m	0.538	ug/L		
4) Chloromethane	1.203	50	2831	0.593	ug/L		68
5) Vinyl Chloride	1.258	62	2742	0.556	ug/L		97
6) Bromomethane	1.477	94	1361m	0.693	ug/L		
7) Chloroethane	1.538	64	1691	0.541	ug/L		99
8) Freon 21	1.678	67	3350	0.504	ug/L		93
9) Trichlorofluoromethane	1.715	101	2831	0.517	ug/L		86
10) Diethyl Ether	1.934	59	1708	0.433	ug/L	#	69
11) Freon 123a	1.940	67	1926	0.493	ug/L	#	68
12) Freon 123	1.983	83	2363	0.530	ug/L		83
13) Acrolein	2.032	56	1312	2.282	ug/L		92
14) 1,1-Diclethene	2.111	96	1491	0.483	ug/L	#	81
15) Freon 113	2.111	101	1594m	0.502	ug/L		
16) Acetone	2.154	43	2809	0.964	ug/L		78
17) 2-Propanol	2.288	45	4984	8.674	ug/L		93
18) Iodomethane	2.221	142	2216	0.461	ug/L		86
19) Carbon Disulfide	2.276	76	3494	0.460	ug/L		94
20) Acetonitrile/Allyl Chl...	2.410	41	4017	2.620	ug/L	#	72
21) Methyl Acetate	2.434	43	2618	0.515	ug/L		94
22) Methylene Chloride	2.519	84	4471	0.980	ug/L	#	73
23) TBA	2.654	59	9673	9.083	ug/L		93
24) Acrylonitrile	2.763	53	6258	2.353	ug/L		89
25) Methyl-t-Butyl Ether	2.806	73	5907m	0.505	ug/L		
26) trans-1,2-Dichloroethene	2.782	96	1630	0.482	ug/L	#	80
27) 1,1-Diclethane	3.251	63	3436	0.492	ug/L		90
28) Vinyl Acetate	3.342	86	266m	0.390	ug/L		
29) DIPE	3.367	45	6297m	0.511	ug/L		
30) 2-Chloro-1,3-Butadiene	3.355	53	3573	0.506	ug/L		78
31) ETBE	3.842	59	6267m	0.480	ug/L		
32) 2,2-Dichloropropane	4.001	77	1844m	0.420	ug/L		
33) cis-1,2-Dichloroethene	4.007	96	1983	0.511	ug/L	#	70
34) 2-Butanone	4.080	43	1603	0.461	ug/L		74
35) Propionitrile	4.166	54	2836	2.388	ug/L		97
36) Bromochloromethane	4.379	130	1229m	0.478	ug/L		
37) Methacrylonitrile	4.397	67	981m	0.443	ug/L		
38) Tetrahydrofuran	4.507	42	1111	0.501	ug/L		78
39) Chloroform	4.556	83	3699	0.570	ug/L		96
40) 1,1,1-Trichloroethane	4.824	97	2649m	0.509	ug/L		

1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) TAME	5.769	73	4699	0.467	ug/L		85
43) Cyclohexane	4.915	41	1910m	0.532	ug/L		
45) Carbontetrachloride	5.135	117	2831m	0.584	ug/L		
46) 1,1-Dichloropropene	5.141	75	2444	0.546	ug/L		84
48) Benzene	5.507	78	6680	0.515	ug/L		85
49) 1,2-Dichloroethane	5.549	62	3486	0.536	ug/L		91
50) Iso-Butyl Alcohol	5.574	43	1526	4.873	ug/L		85
51) n-Heptane	6.019	43	2741	0.561	ug/L	#	65
52) 1-Butanol	6.616	56	2663m	12.976	ug/L		
53) Trichloroethene	6.507	130	1972	0.510	ug/L	#	84
54) Methylcyclohexane	6.750	55	2475	0.454	ug/L	#	75
55) 1,2-Diclpropane	6.805	63	1878	0.476	ug/L		99
56) Dibromomethane	6.958	93	1277	0.516	ug/L	#	84
57) 1,4-Dioxane	7.049	88	921m	11.029	ug/L		
58) Methyl Methacrylate	7.061	69	1609	0.488	ug/L	#	69
59) Bromodichloromethane	7.195	83	2300	0.494	ug/L		93
60) 2-Nitropropane	7.506	41	1416m	0.852	ug/L		
61) 2-Chloroethylvinyl Ether	7.628	63	632m	0.496	ug/L		
62) cis-1,3-Dichloropropene	7.756	75	2299	0.434	ug/L		94
63) 4-Methyl-2-pentanone	7.982	43	2959	0.478	ug/L		79
65) Toluene	8.122	91	8253	0.557	ug/L		90
66) trans-1,3-Dichloropropene	8.409	75	2475	0.486	ug/L		97
67) Ethyl Methacrylate	8.561	69	2559m	0.449	ug/L		
68) 1,1,2-Trichloroethane	8.604	97	1797	0.504	ug/L		83
71) Tetrachloroethene	8.726	164	1384	0.532	ug/L		92
72) 2-Hexanone	8.915	43	1988	0.428	ug/L		87
73) 1,3-Dichloropropane	8.768	76	3018	0.530	ug/L	#	71
74) Dibromochloromethane	9.000	129	1486m	0.405	ug/L		
75) N-Butyl Acetate	9.073	43	4411	0.495	ug/L		85
76) 1,2-Dibromoethane	9.098	107	1783	0.474	ug/L		91
77) 3-Chlorobenzotrifluoride	9.628	180	2228	0.520	ug/L	#	86
78) Chlorobenzene	9.597	112	5799	0.587	ug/L		91
79) 4-Chlorobenzotrifluoride	9.689	180	2061	0.519	ug/L		92
80) 1,1,1,2-Tetrachloroethane	9.689	131	1753	0.492	ug/L		89
81) Ethylbenzene	9.725	106	2505	0.504	ug/L		92
82) (m+p)Xylene	9.841	106	6326	1.034	ug/L	#	82
83) o-Xylene	10.201	106	3417	0.561	ug/L	#	70
84) Styrene	10.213	104	4897	0.478	ug/L		94
85) Bromoform	10.366	173	747	0.360	ug/L		84
86) 2-Chlorobenzotrifluoride	10.457	180	2327	0.536	ug/L		93
87) Isopropylbenzene	10.542	105	7868	0.504	ug/L		96
88) Cyclohexanone	10.609	55	10096	8.751	ug/L		92
89) trans-1,4-Dichloro-2-B...	10.859	53	961	0.436	ug/L	#	64
91) 1,1,2,2-Tetrachloroethane	10.811	83	2543	0.527	ug/L		92
92) Bromobenzene	10.780	156	2096	0.570	ug/L		95
93) 1,2,3-Trichloropropane	10.835	110	822	0.470	ug/L		91
94) n-Propylbenzene	10.896	91	8835	0.529	ug/L		97
95) 2-Chlorotoluene	10.957	91	6277	0.597	ug/L		95
96) 3-Chlorotoluene	11.012	91	5875	0.552	ug/L		93
97) 4-Chlorotoluene	11.055	91	6951	0.575	ug/L		92
98) 1,3,5-Trimethylbenzene	11.055	105	6647	0.525	ug/L		96
99) tert-Butylbenzene	11.329	119	5677	0.525	ug/L		94
100) 1,2,4-Trimethylbenzene	11.365	105	6769	0.527	ug/L		95
101) 3,4-Dichlorobenzotrifl...	11.426	214	1580	0.567	ug/L	#	73
102) sec-Butylbenzene	11.512	105	7766	0.513	ug/L		95
103) p-Isopropyltoluene	11.634	119	7162	0.538	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

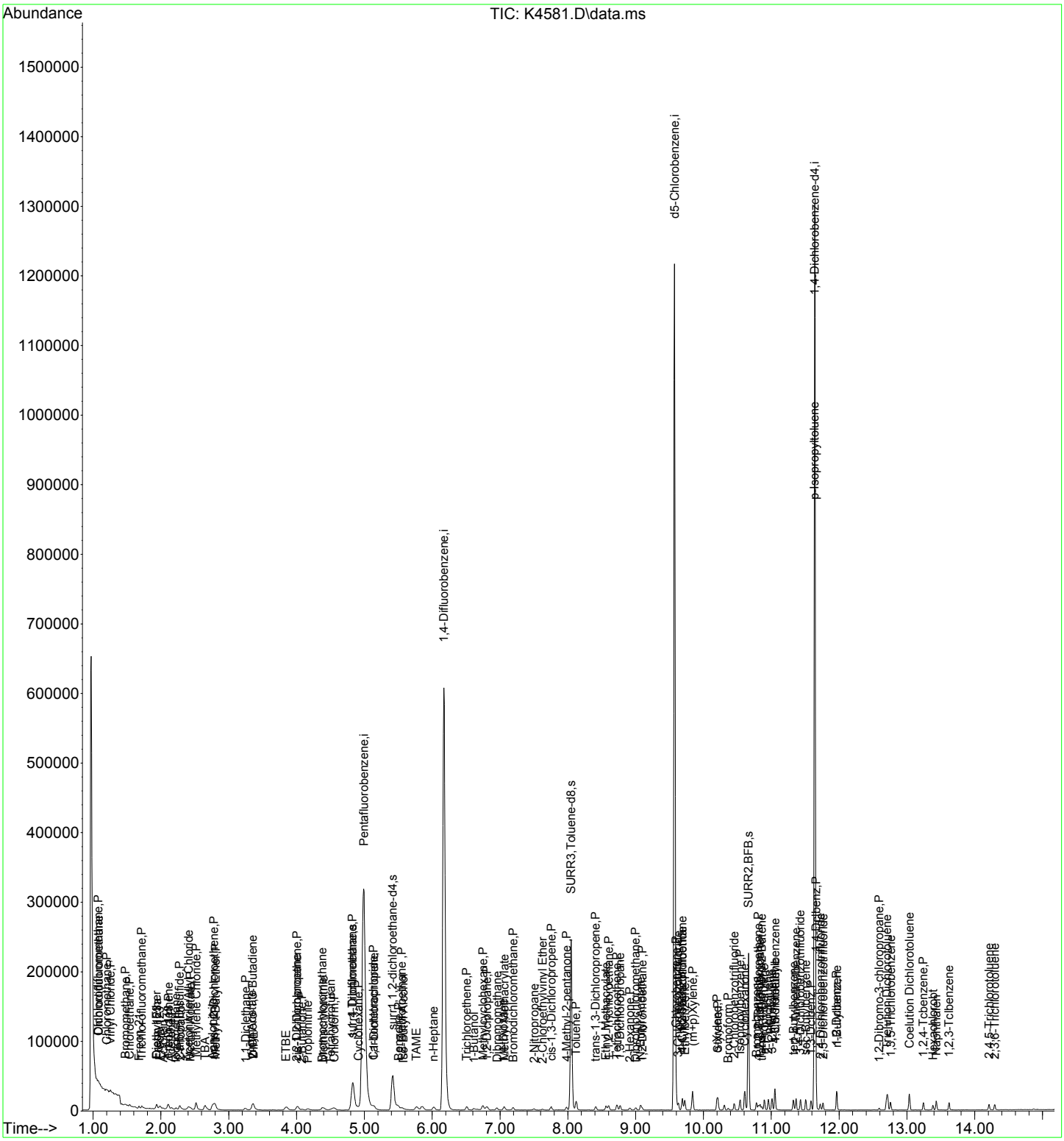
Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
104) 1,3-Dclbenz	11.585	146	4015	0.570	ug/L		95
105) 1,4-Dclbenz	11.658	146	4338	0.610	ug/L		93
106) 2,4-Dichlorobenzotrifl...	11.725	214	1462	0.596	ug/L		81
107) 2,5-Dichlorobenzotrifl...	11.768	214	1511	0.552	ug/L		97
108) n-Butylbenzene	11.969	91	6045	0.522	ug/L		98
109) 1,2-Dclbenz	11.963	146	3617	0.520	ug/L		92
110) 1,2-Dibromo-3-chloropr...	12.591	157	368	0.320	ug/L	#	72
111) Trielution Dichlorotol...	12.707	125	10621	1.620	ug/L		87
112) 1,3,5-Trichlorobenzene	12.762	180	2511	0.552	ug/L		94
113) Coelution Dichlorotoluene	13.036	125	7371	1.045	ug/L		92
114) 1,2,4-Tcbenzene	13.243	180	2300	0.522	ug/L		91
115) Hexachlorobt	13.383	225	841	0.518	ug/L		91
116) Naphthalen	13.432	128	7616	0.457	ug/L		99
117) 1,2,3-Tclbenzene	13.621	180	2320	0.534	ug/L		96
118) 2,4,5-Trichlorotoluene	14.212	159	1896	0.548	ug/L		81
119) 2,3,6-Trichlorotoluene	14.298	159	1535	0.479	ug/L		85

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4581.D
Acq On : 31 Jul 2024 03:35 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260/624 ICAL
ALS Vial : 1 Sample Multiplier: 1

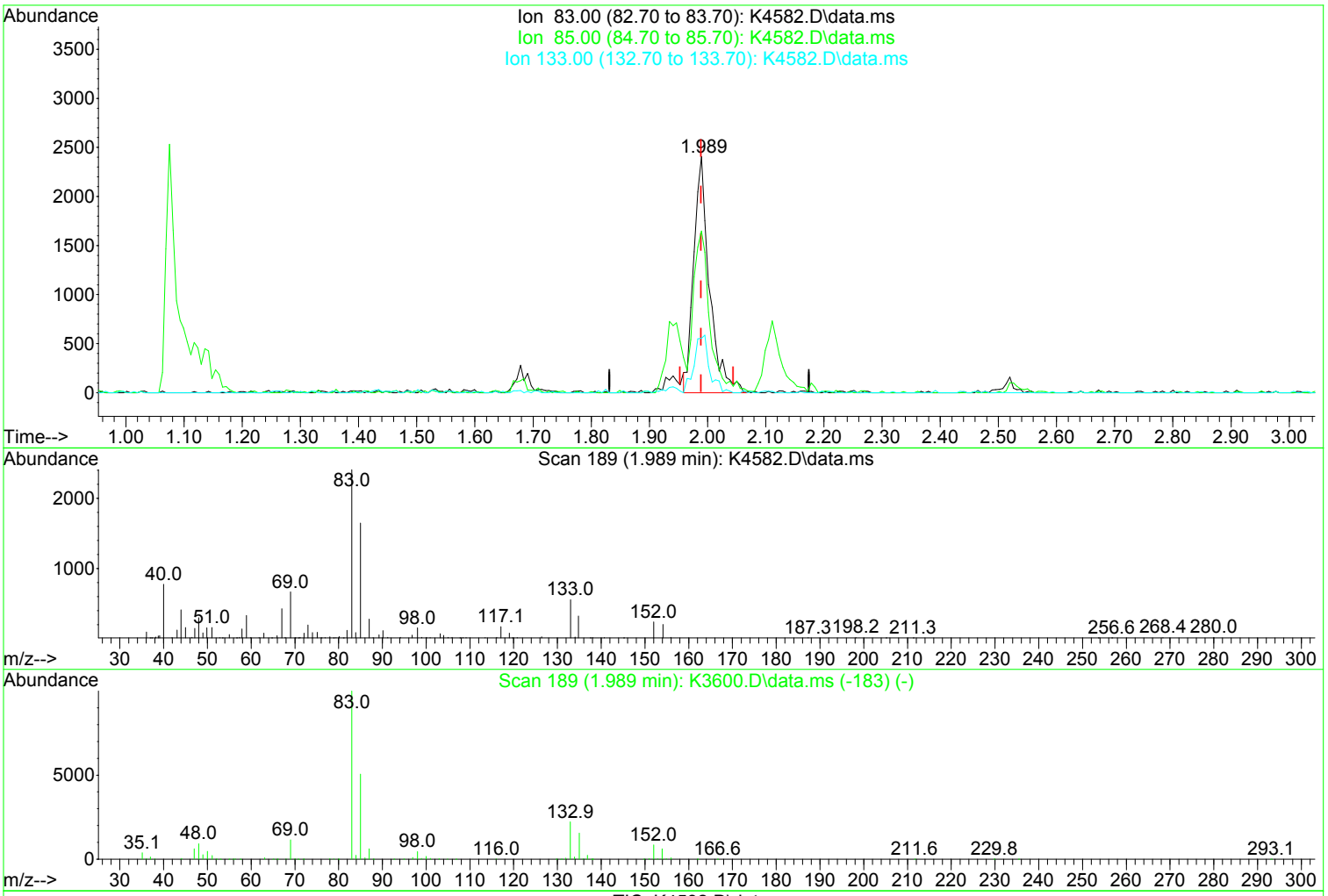
Quant Time: Jul 31 19:24:57 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



TIC: K4582.D\data.ms

(12) Freon 123

1.989min (-0.000) 1.03 ug/L m

response 4518

Ion	Exp%	Act%
83.00	100.00	100.00
85.00	67.60	68.50
133.00	23.20	23.11
0.00	0.00	0.00

Manual Integration:

After

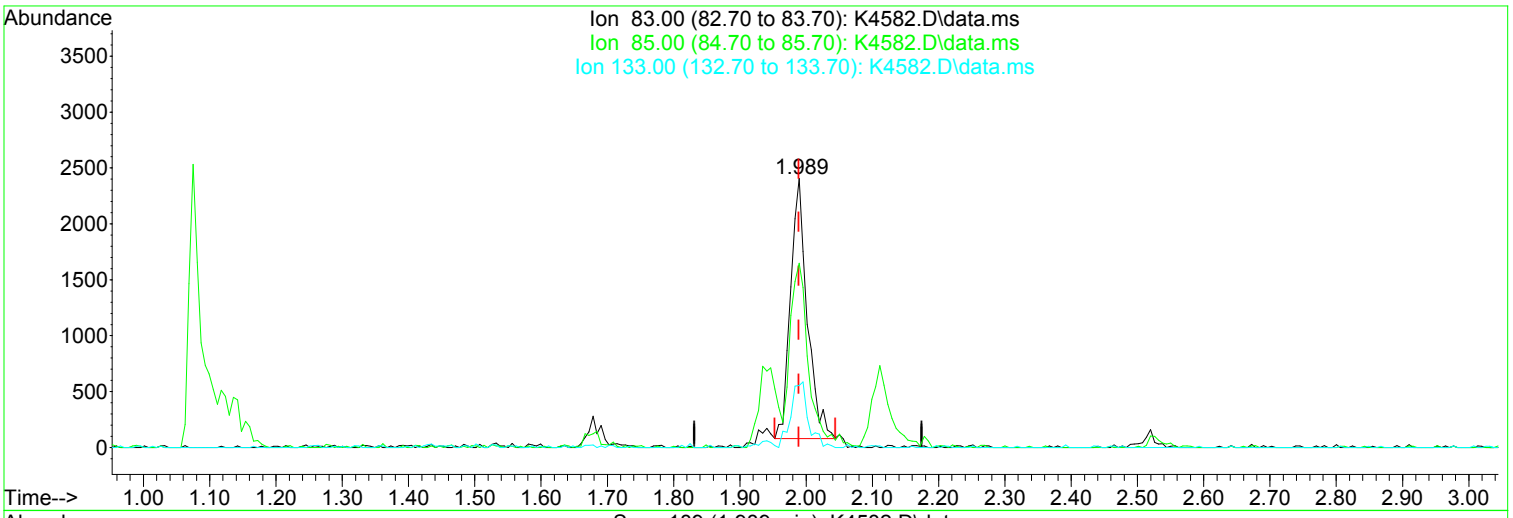
Poor integration.

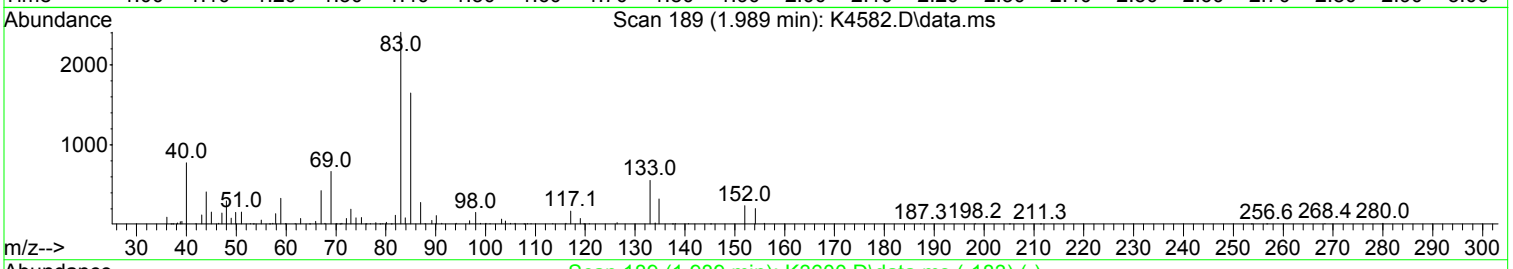
07/31/24

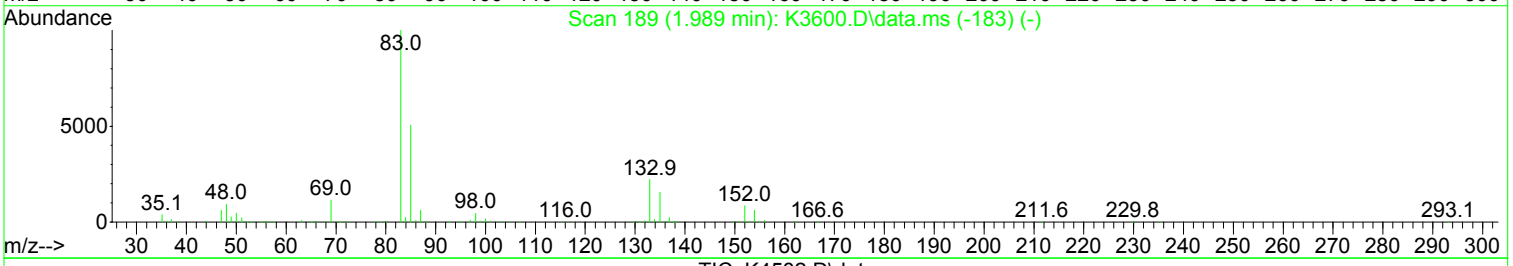
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(12) Freon 123

1.989min (-0.000) 0.93 ug/L

response 4075

Ion	Exp%	Act%
83.00	100.00	100.00
85.00	67.60	68.50
133.00	23.20	23.11
0.00	0.00	0.00

Manual Integration:

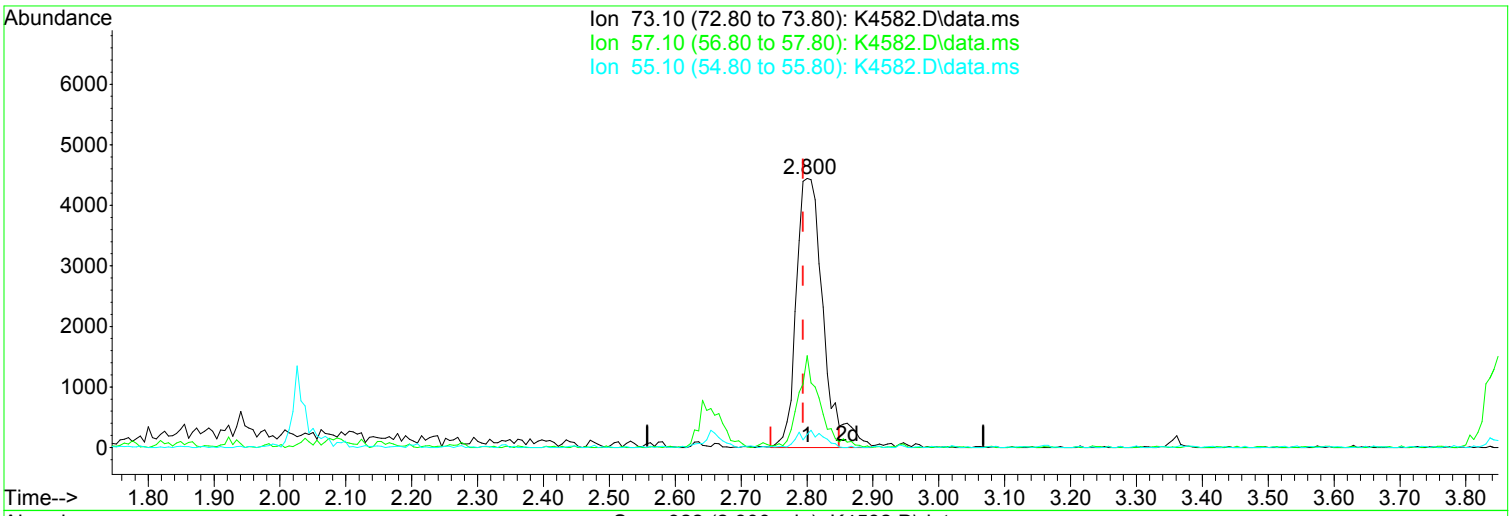
Before

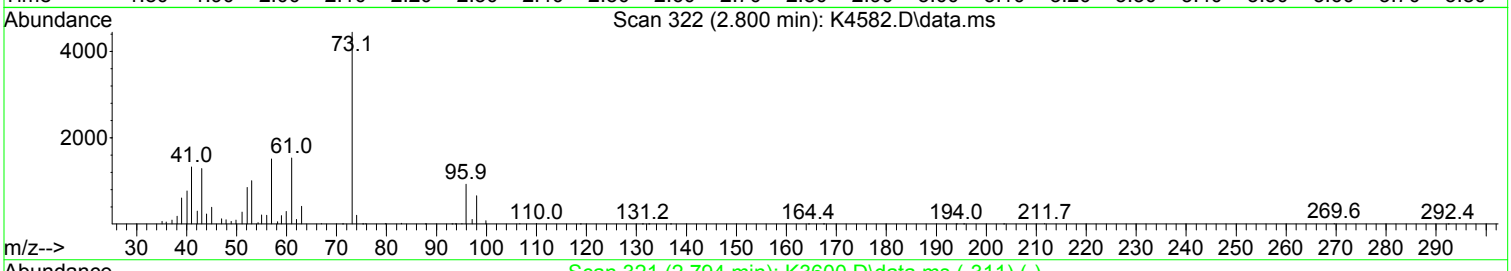
07/31/24

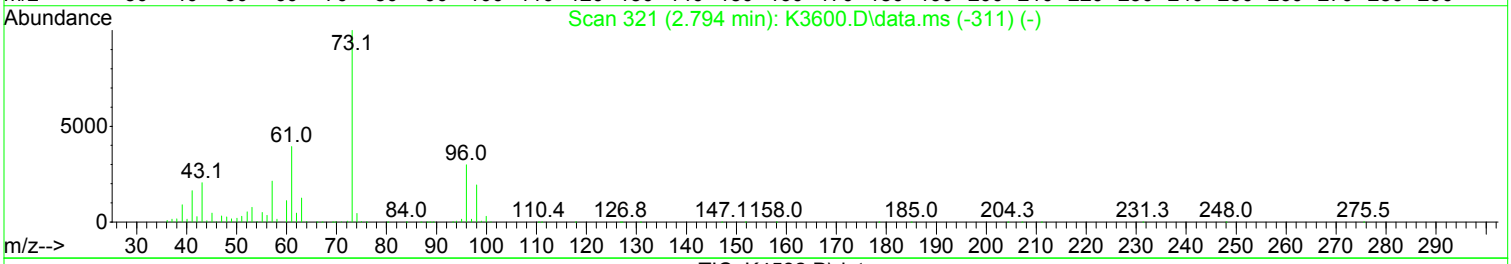
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(25) Methyl-t-Butyl Ether (P)

2.800min (+ 0.006) 1.10 ug/L m

response 12675

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	21.60	34.11
55.10	5.10	4.86
0.00	0.00	0.00

Manual Integration:

After

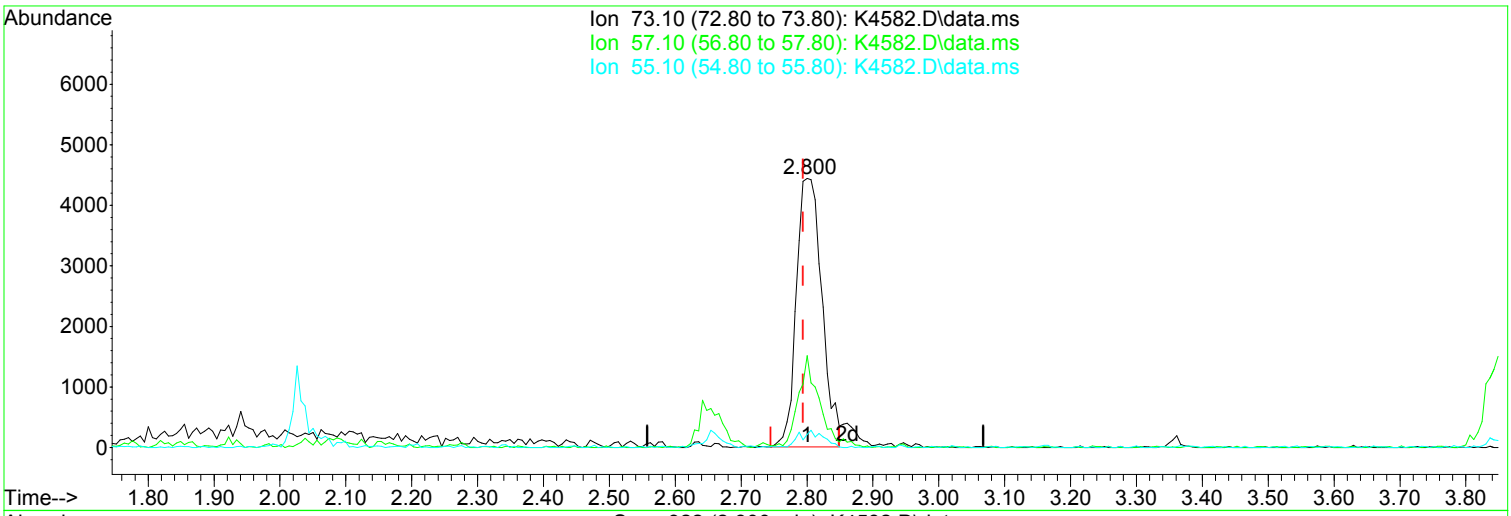
Poor integration.

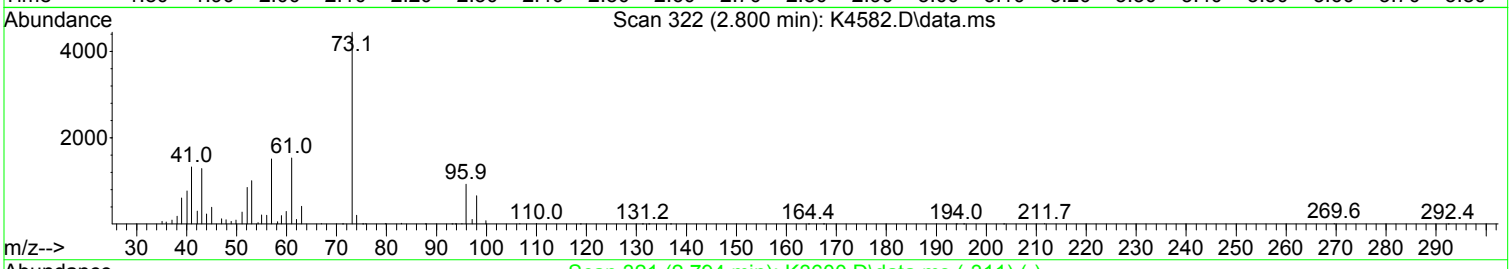
07/31/24

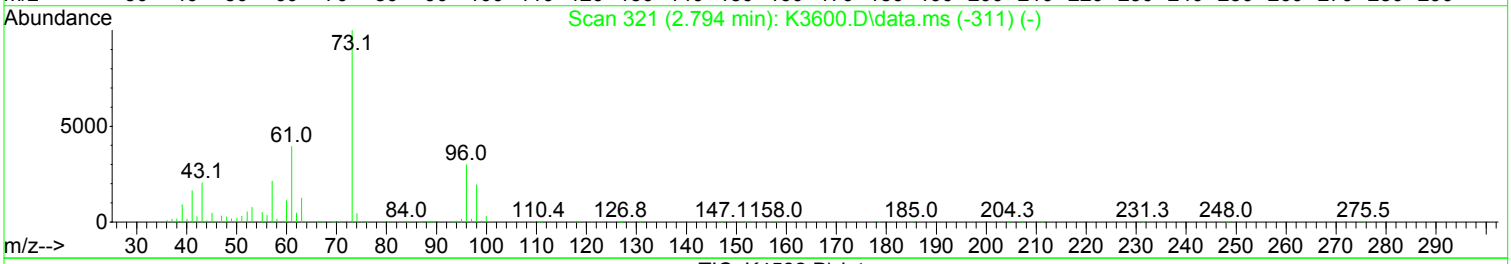
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(25) Methyl-t-Butyl Ether (P)

2.800min (+ 0.006) 1.04 ug/L

response 11956

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	21.60	34.11
55.10	5.10	4.86
0.00	0.00	0.00

Manual Integration:

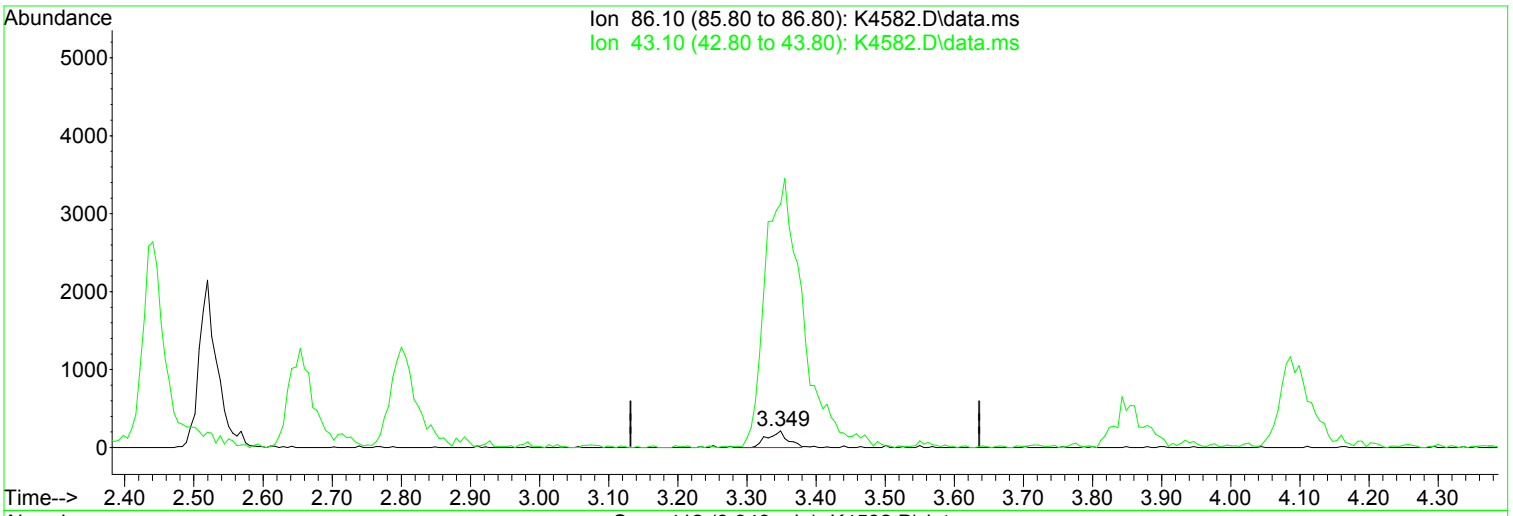
Before

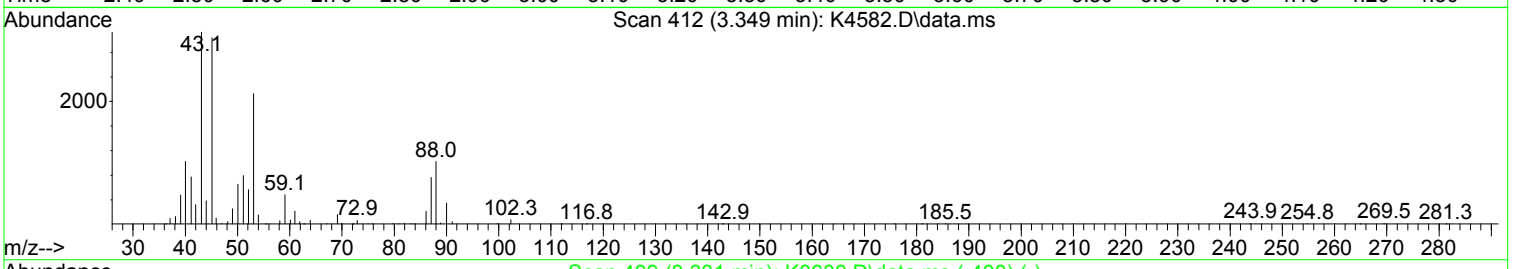
07/31/24

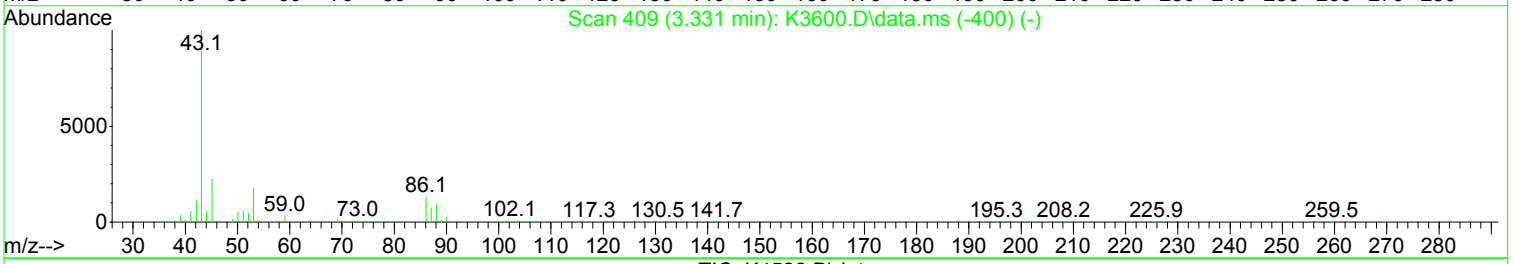
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(28) Vinyl Acetate

3.349min (+ 0.018) 0.65 ug/L m

response 439

Ion	Exp%	Act%
86.10	100.00	100.00
43.10	778.10	1467.61#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

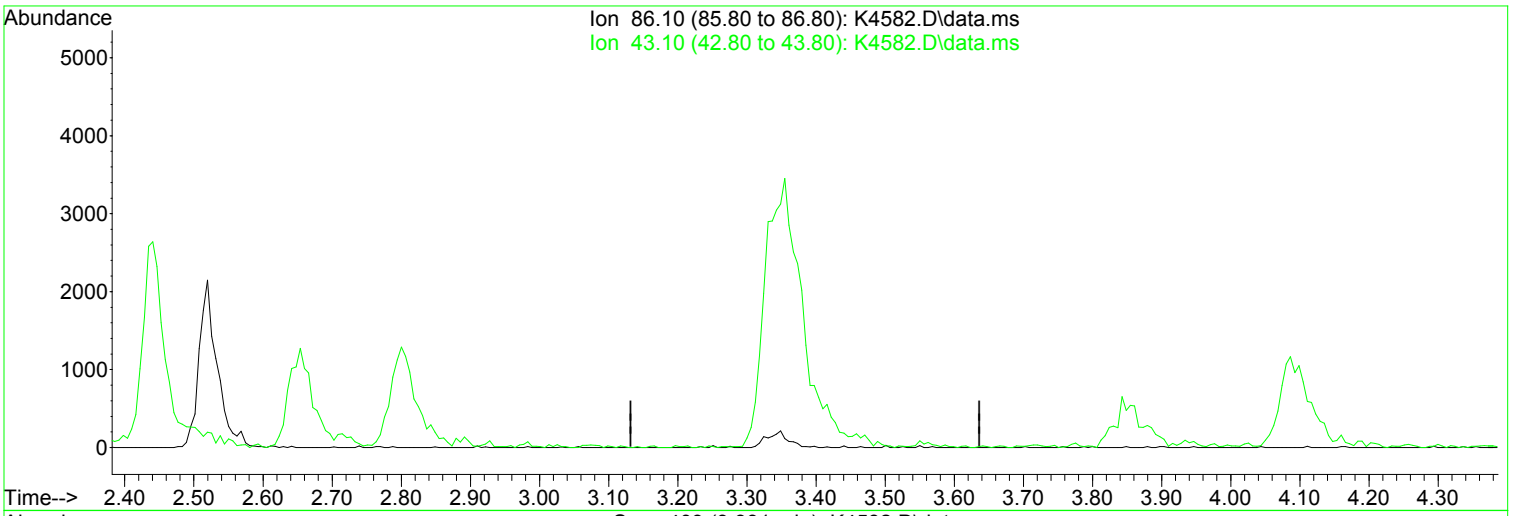
Poor integration.

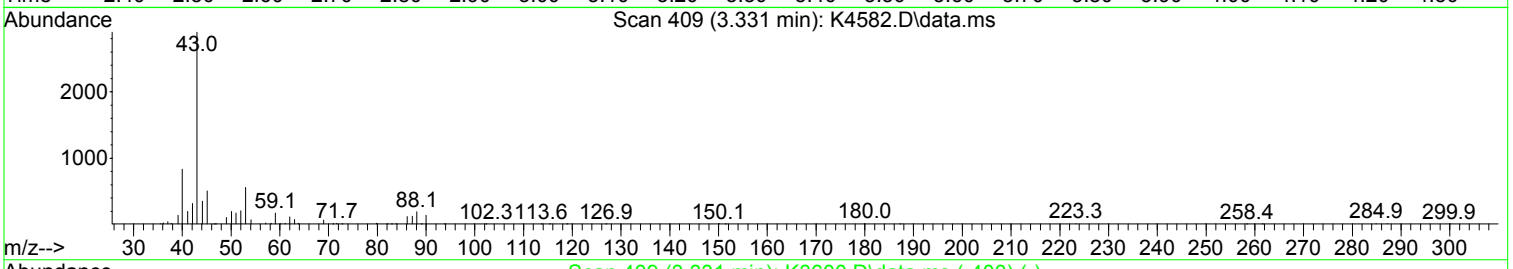
07/31/24

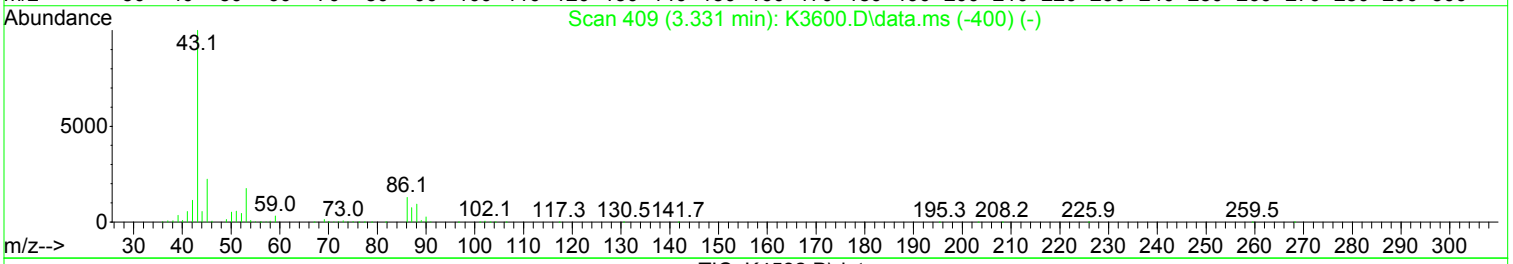
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(28) Vinyl Acetate

3.331min (-3.331) 0.00 ug/L

response 0

Ion	Exp%	Act%
86.10	100.00	0.00
43.10	778.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

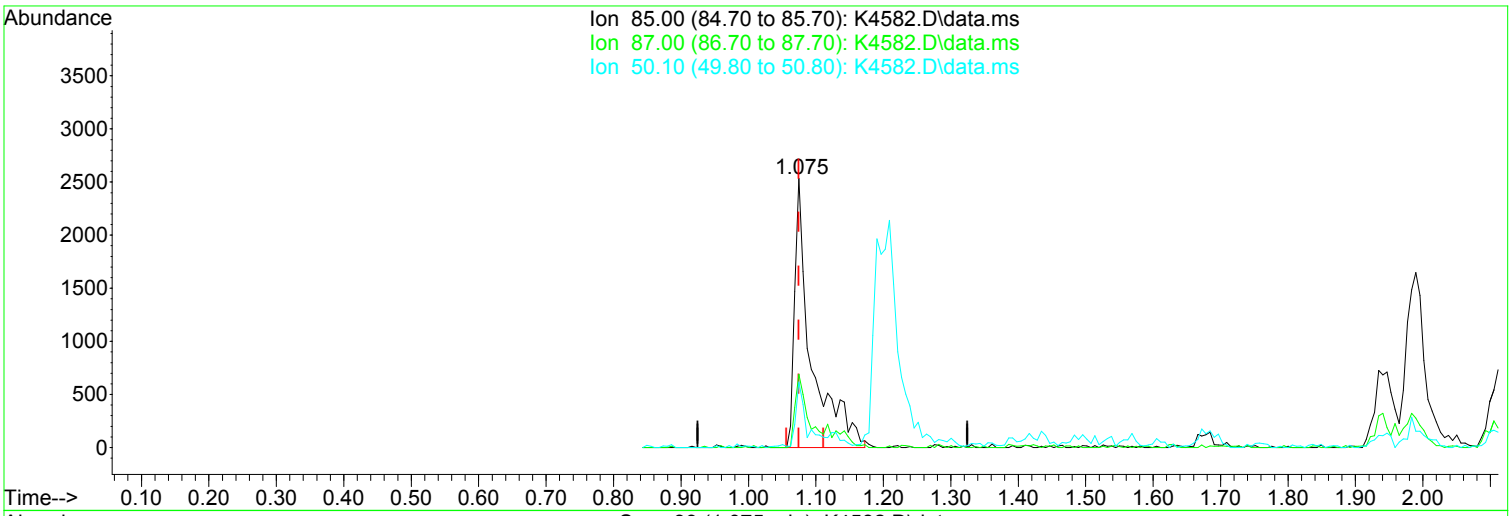
Before

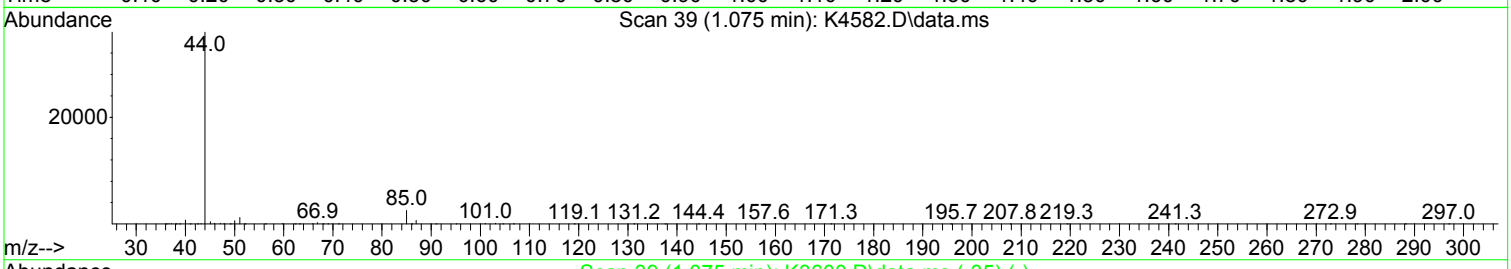
07/31/24

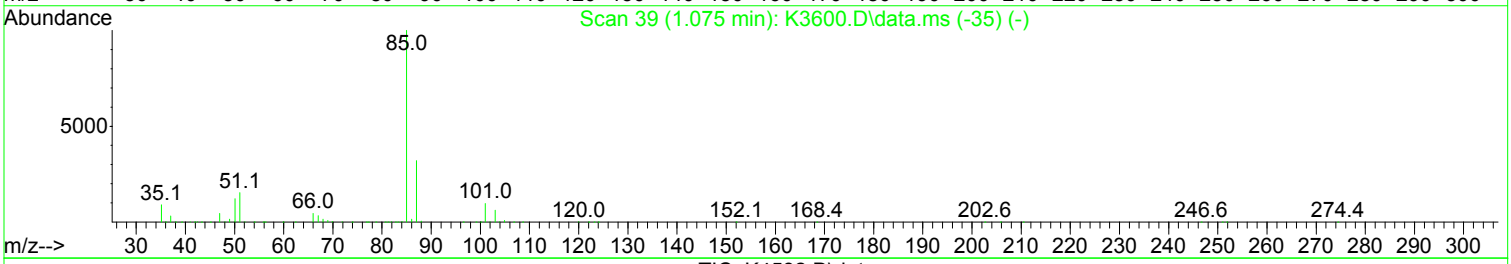
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(3) Dichlorodifluoromethane (P)

1.075min (-0.000) 1.04 ug/L m

response 4359

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	32.00	27.28
50.10	12.20	24.44
0.00	0.00	0.00

Manual Integration:

After

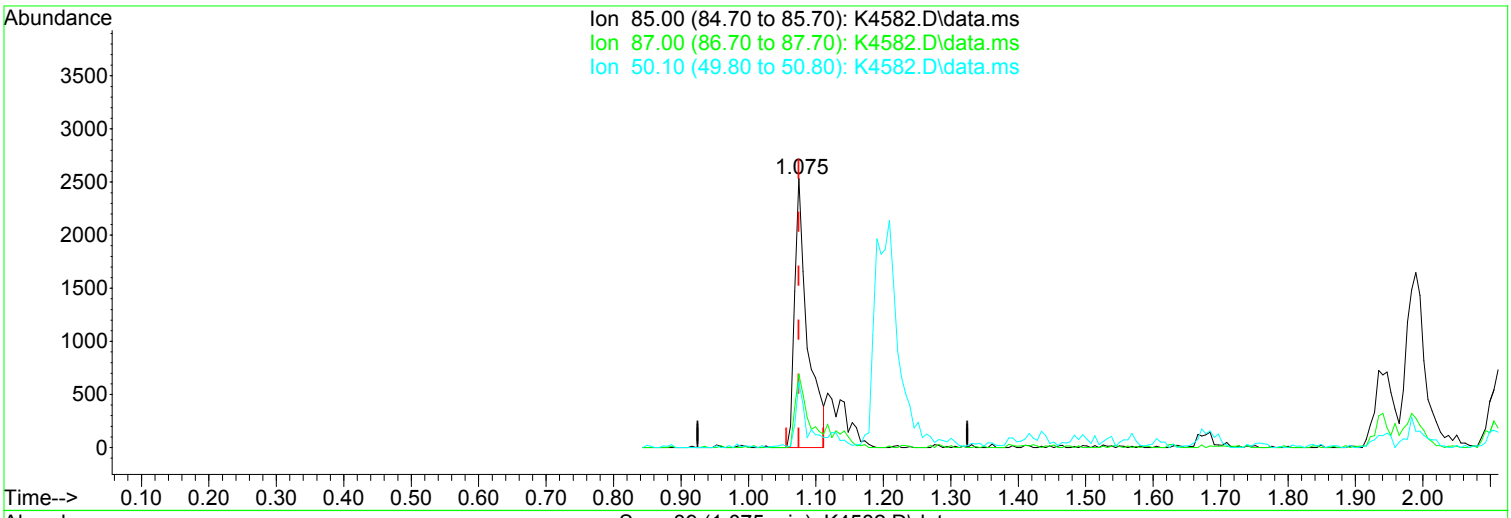
Poor integration.

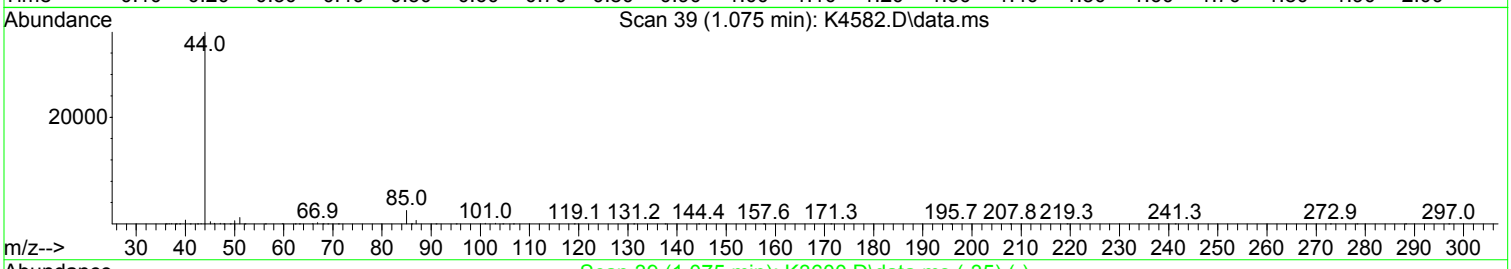
07/31/24

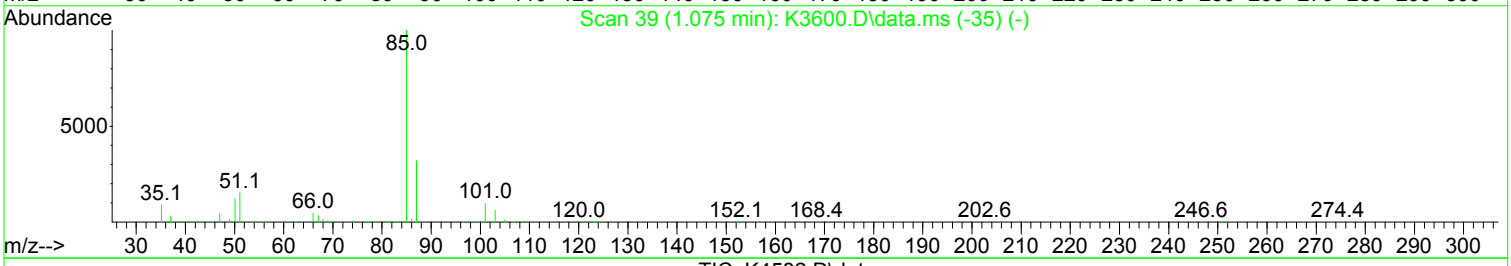
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(3) Dichlorodifluoromethane (P)

1.075min (-0.000) 0.79 ug/L

response 3327

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	32.00	27.28
50.10	12.20	24.44
0.00	0.00	0.00

Manual Integration:

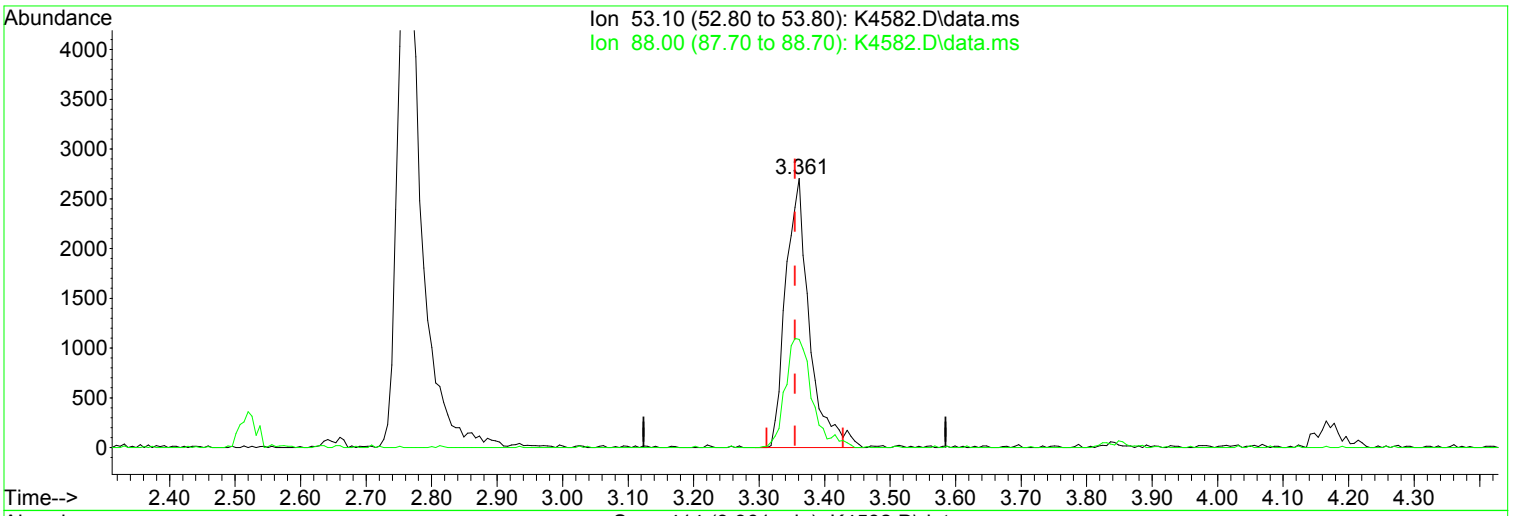
Before

07/31/24

1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



TIC: K4582.D\data.ms

(30) 2-Chloro-1,3-Butadiene

3.361min (+ 0.006) 0.98 ug/L m

response 6792

Ion	Exp%	Act%
53.10	100.00	100.00
88.00	59.10	40.21
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

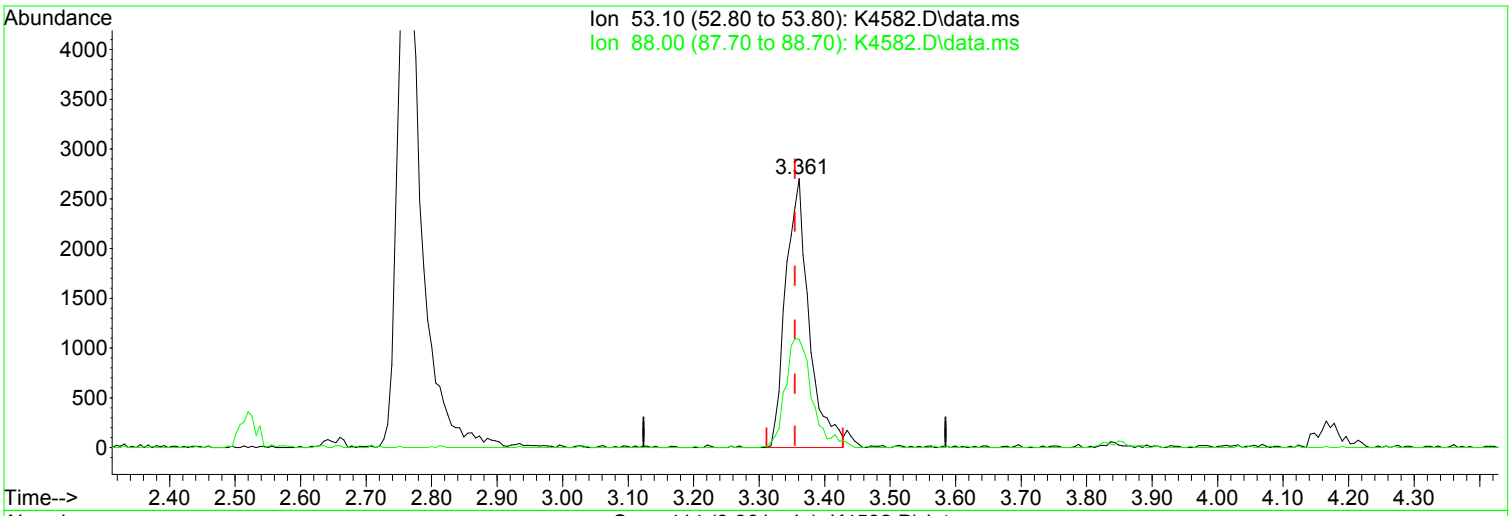
Poor integration.

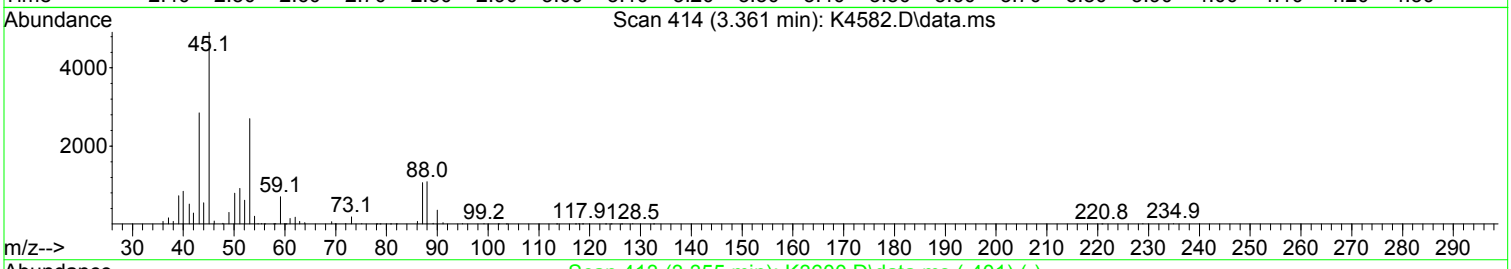
07/31/24

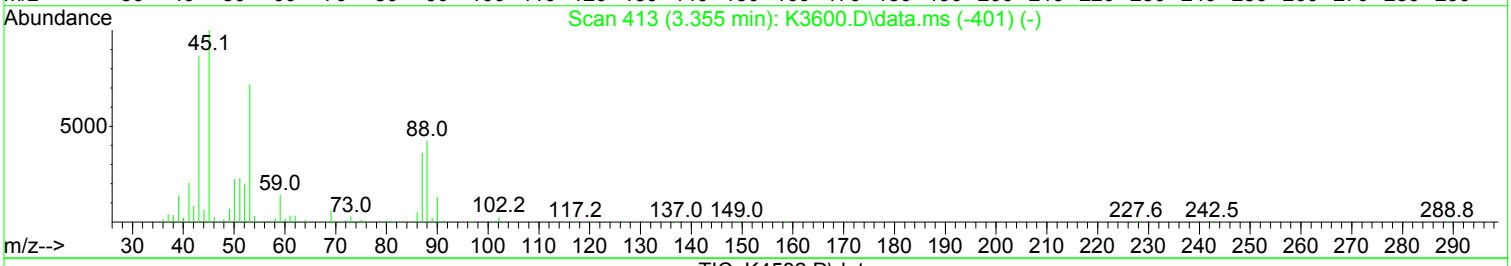
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(30) 2-Chloro-1,3-Butadiene

3.361min (+ 0.006) 0.96 ug/L

response 6652

Ion	Exp%	Act%
53.10	100.00	100.00
88.00	59.10	40.21
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

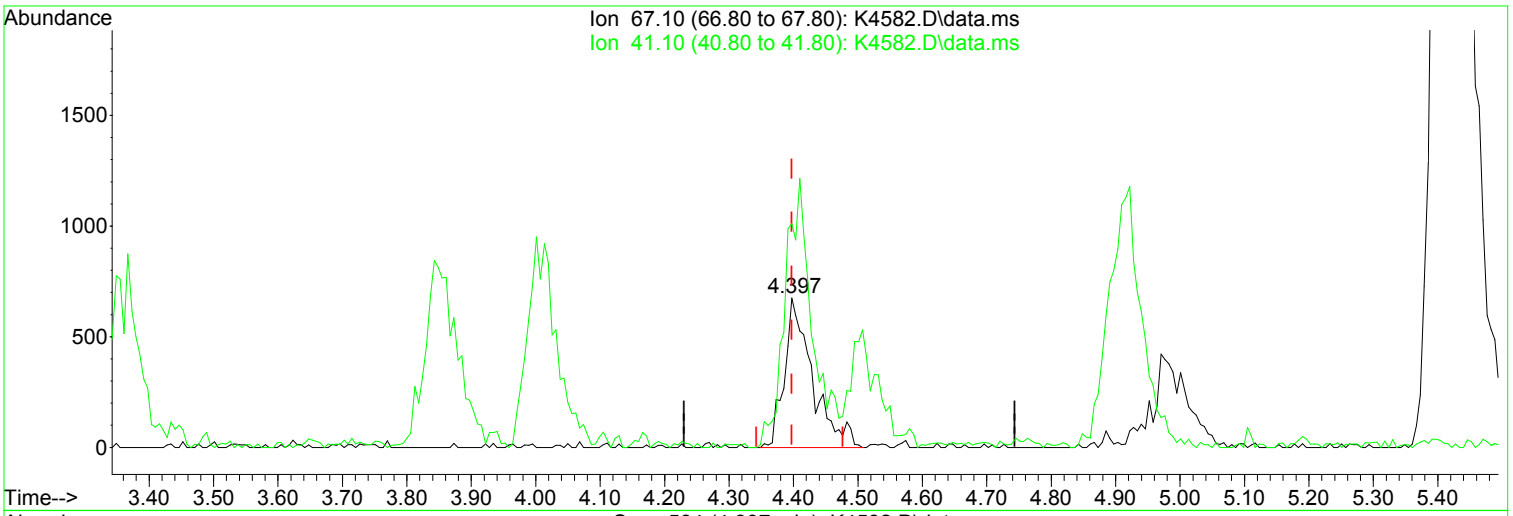
Before

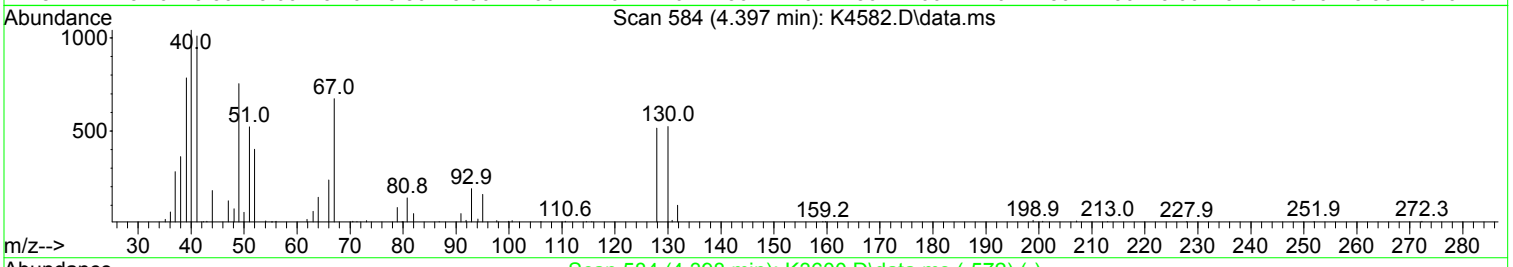
07/31/24

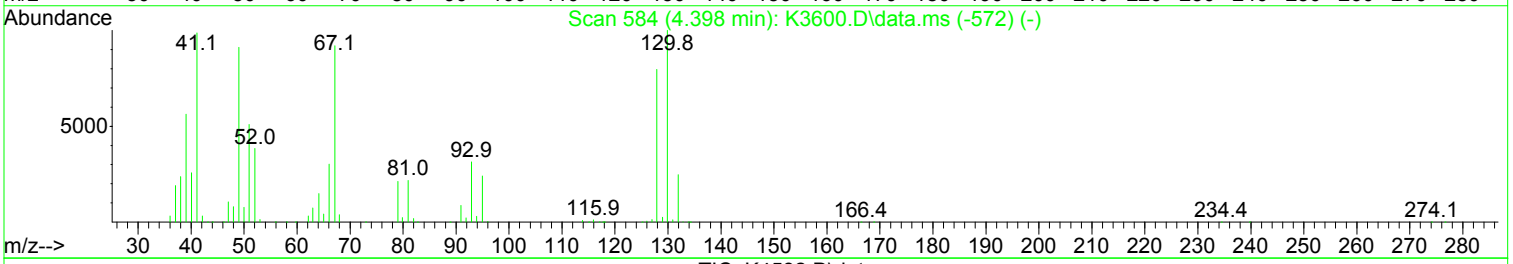
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(37) Methacrylonitrile

4.397min (-0.000) 0.94 ug/L m

response 2043

Ion	Exp%	Act%
67.10	100.00	100.00
41.10	107.20	150.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

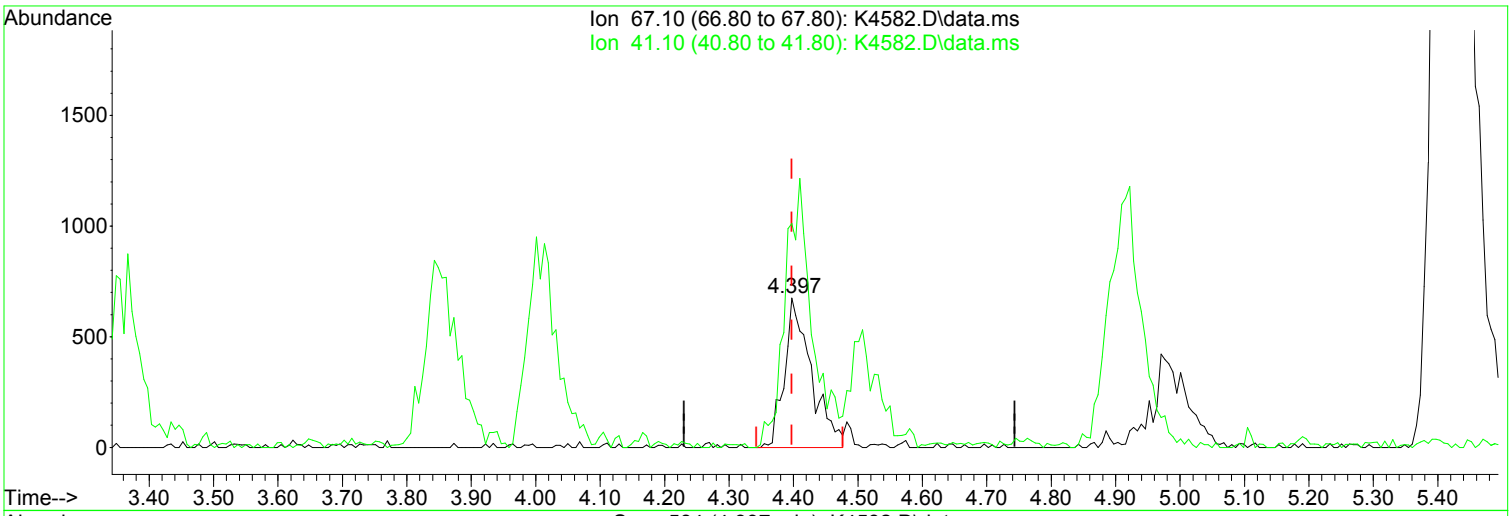
Poor integration.

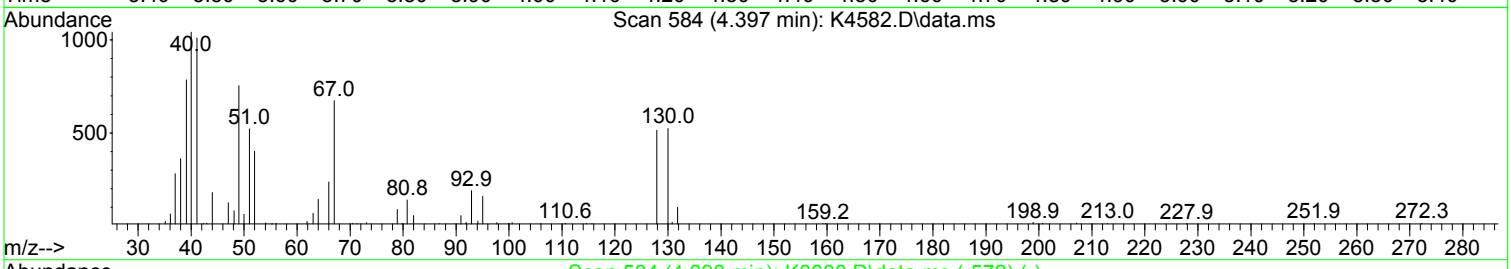
07/31/24

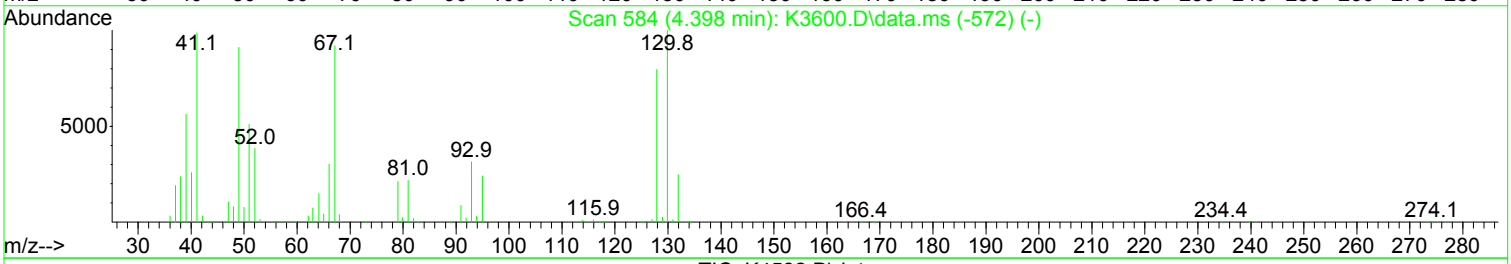
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(37) Methacrylonitrile

4.397min (-0.000) 0.90 ug/L

response 1960

Ion	Exp%	Act%
67.10	100.00	100.00
41.10	107.20	150.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

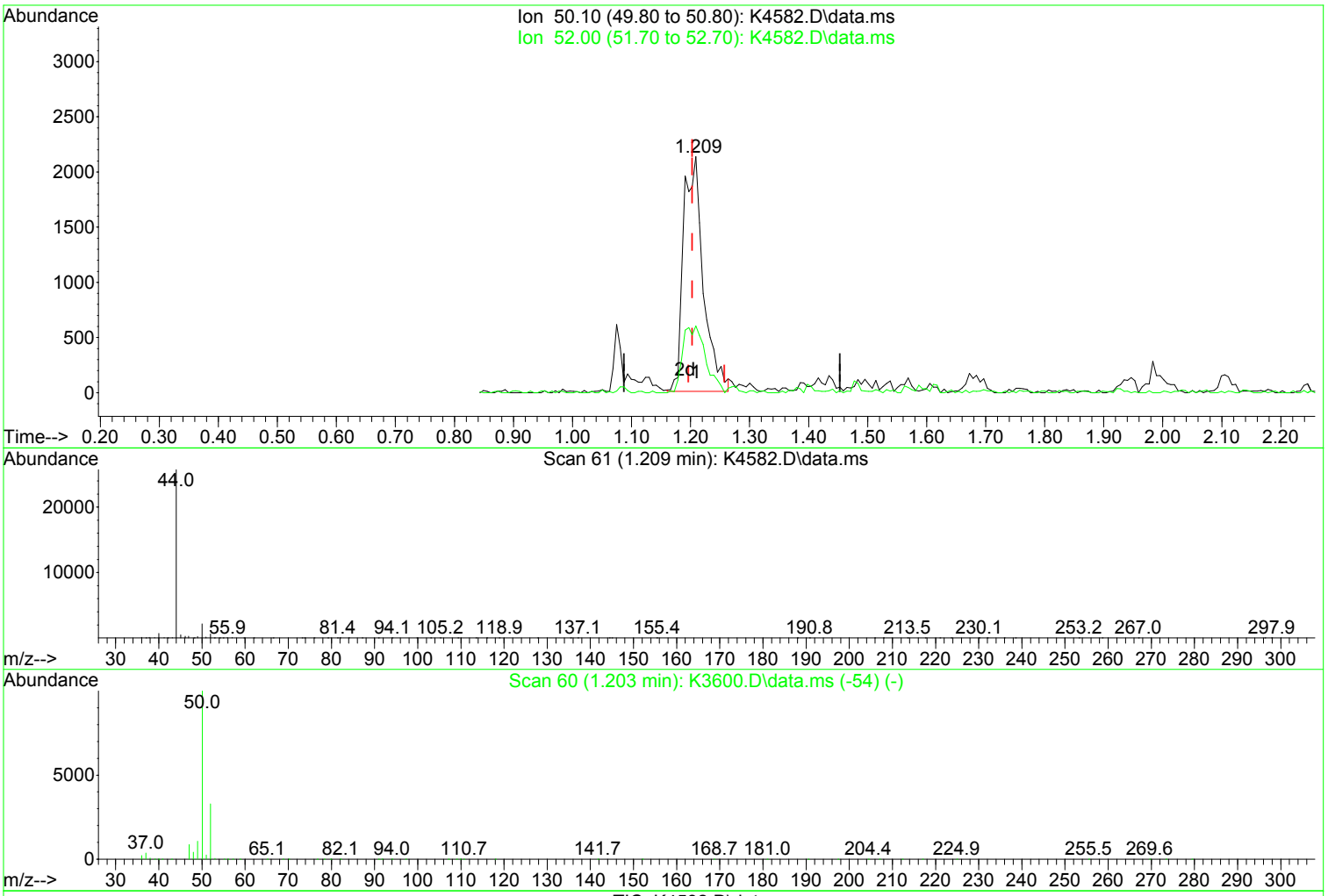
Before

07/31/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



(4) Chloromethane (P)

1.209min (+ 0.006) 1.06 ug/L m

response 4963

Ion	Exp%	Act%
50.10	100.00	100.00
52.00	32.90	28.33
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

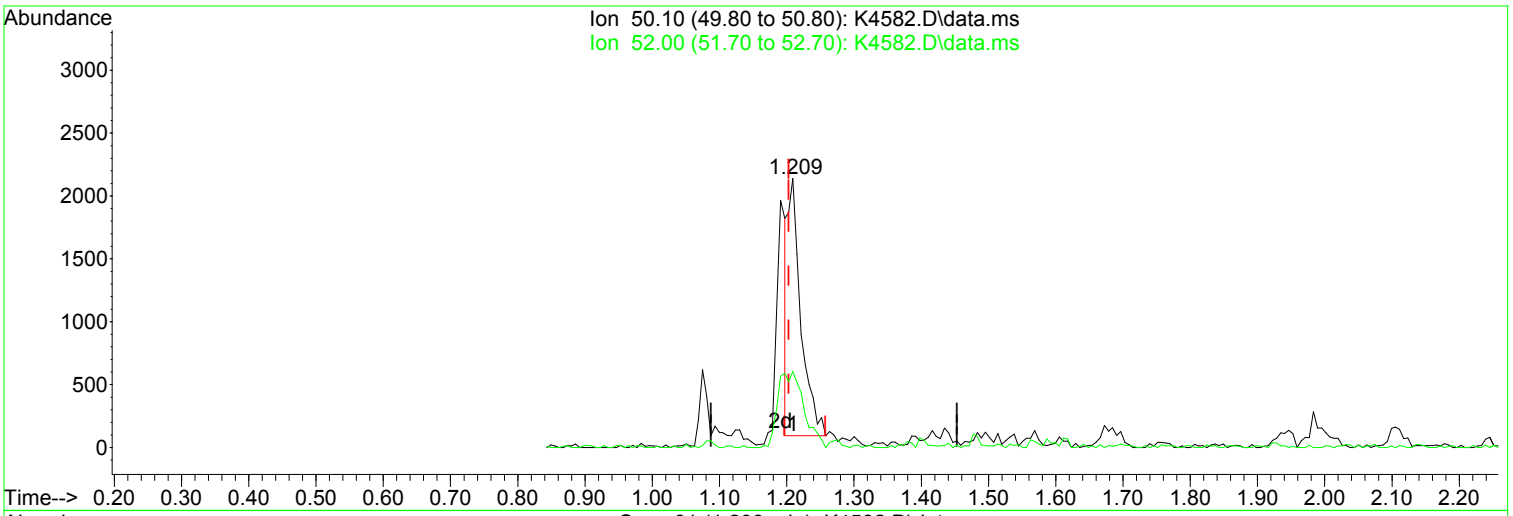
Split Peak.

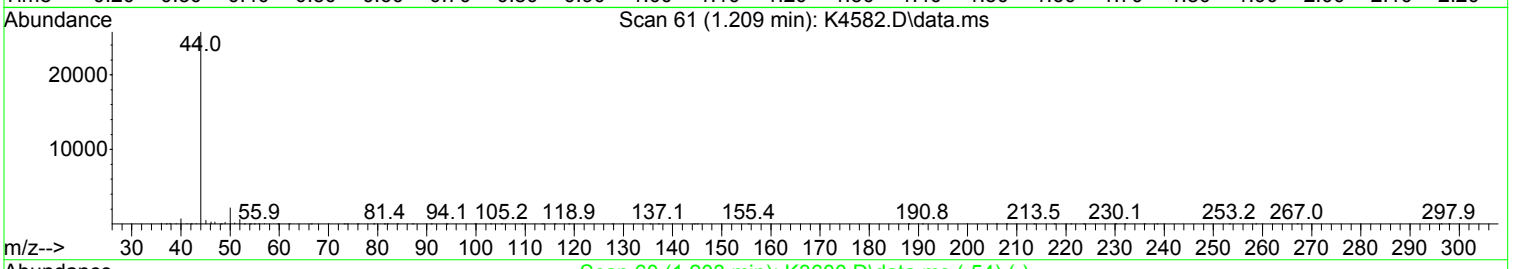
07/31/24

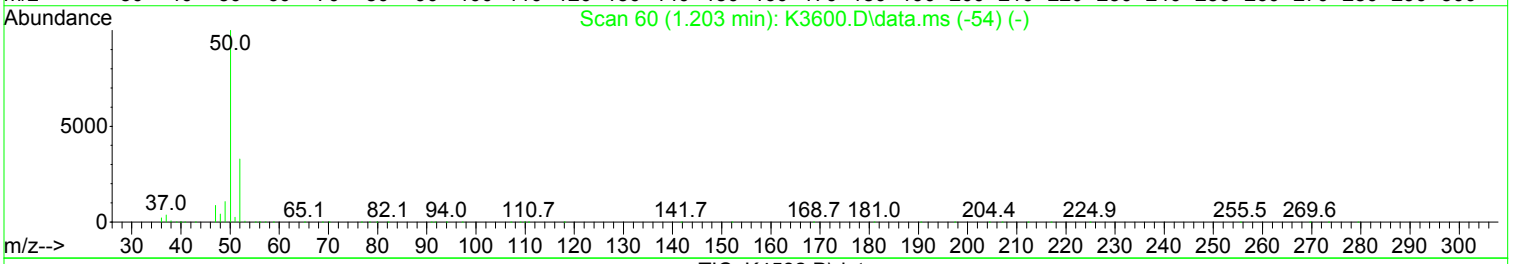
1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(4) Chloromethane (P)

1.209min (+ 0.006) 0.59 ug/L

response 2775

Ion	Exp%	Act%
50.10	100.00	100.00
52.00	32.90	28.33
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

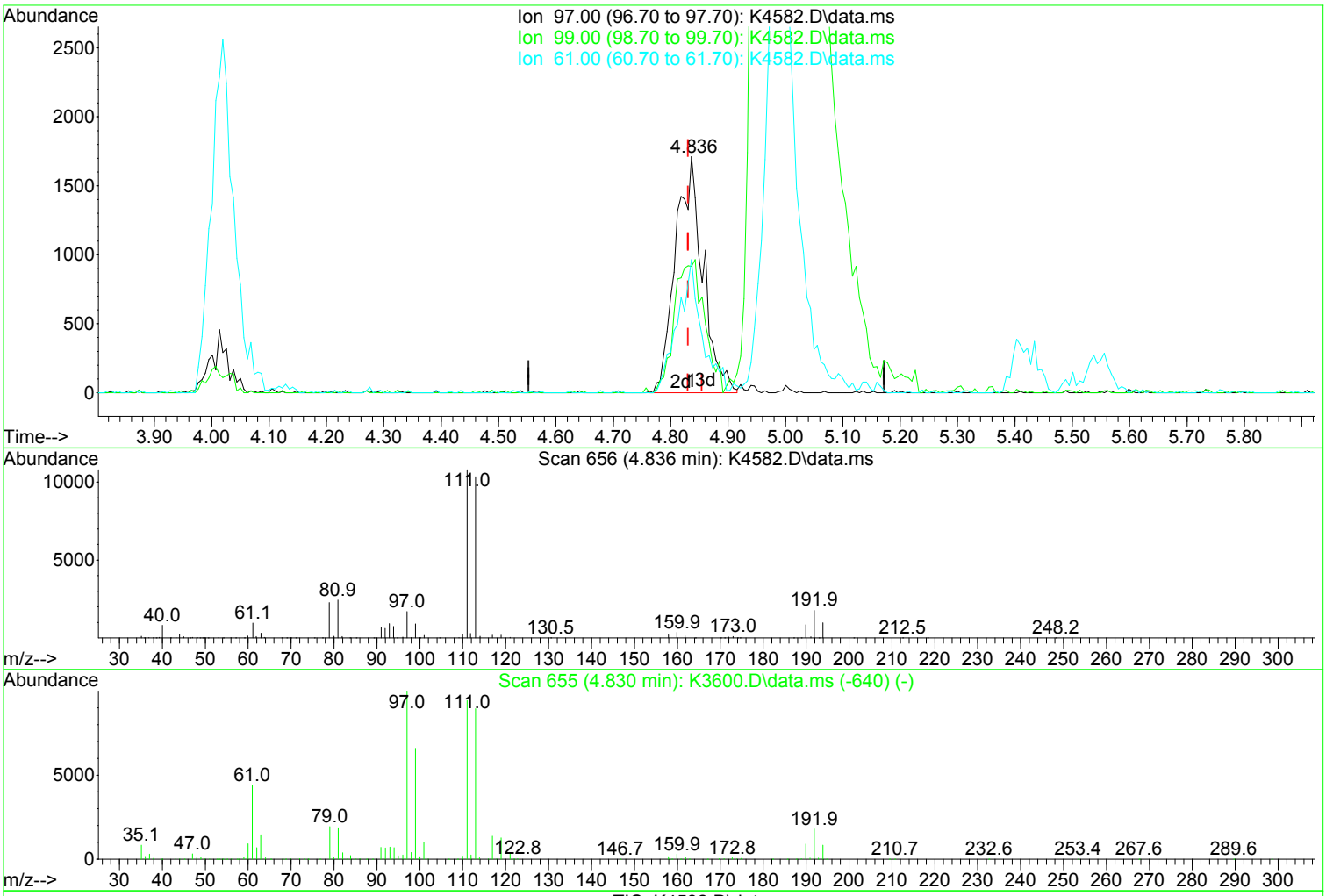
Before

07/31/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



TIC: K4582.D\data.ms

(40) 1,1,1-Trichloroethane (P)

4.836min (+ 0.006) 1.10 ug/L m

response 5666

Ion	Exp%	Act%
97.00	100.00	100.00
99.00	66.00	53.48
61.00	44.00	56.34
0.00	0.00	0.00

Manual Integration:

After

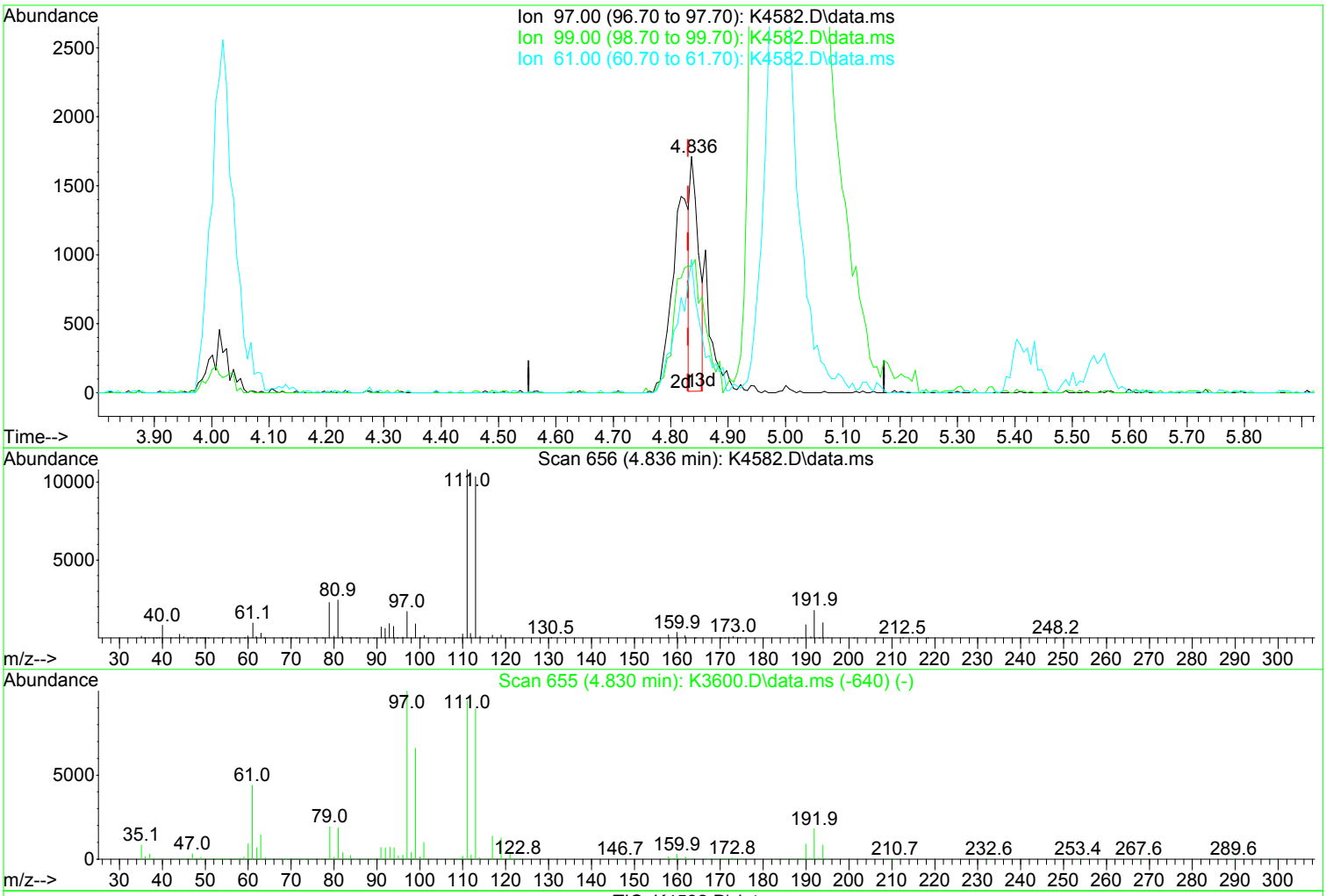
Split Peak.

07/31/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



TIC: K4582.D\data.ms

(40) 1,1,1-Trichloroethane (P)

4.836min (+ 0.006) 0.35 ug/L

response 1784

Ion	Exp%	Act%
97.00	100.00	100.00
99.00	66.00	53.48
61.00	44.00	56.34
0.00	0.00	0.00

Manual Integration:

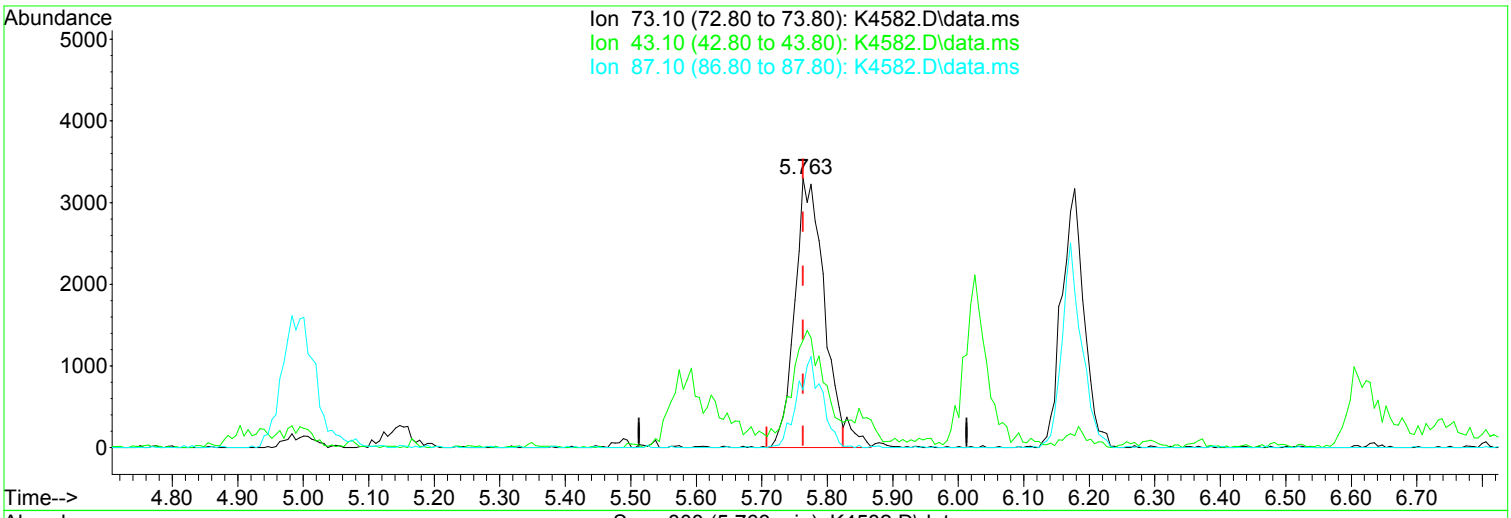
Before

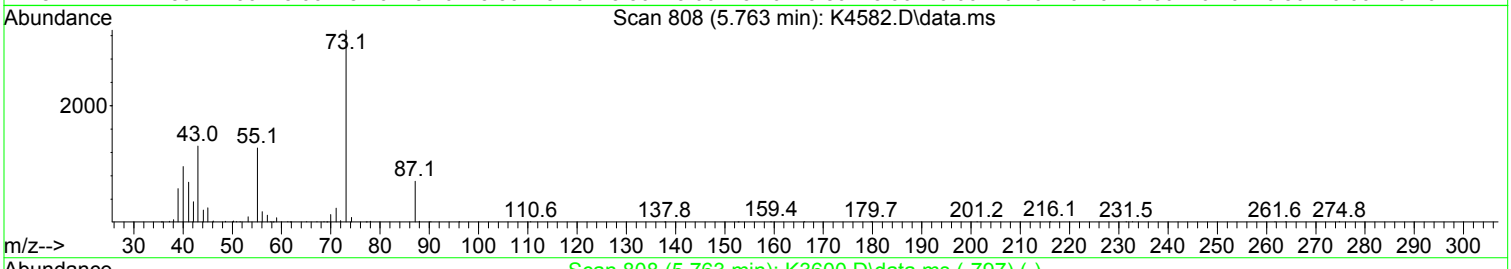
07/31/24

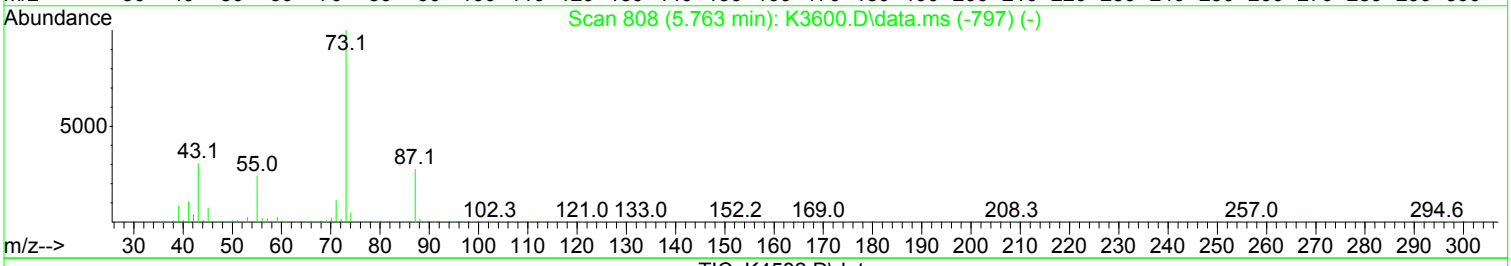
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(41) TAME

5.763min (-0.000) 1.06 ug/L m

response 10487

Ion	Exp%	Act%
73.10	100.00	100.00
43.10	31.20	39.82
87.10	27.50	21.43
0.00	0.00	0.00

Manual Integration:

After

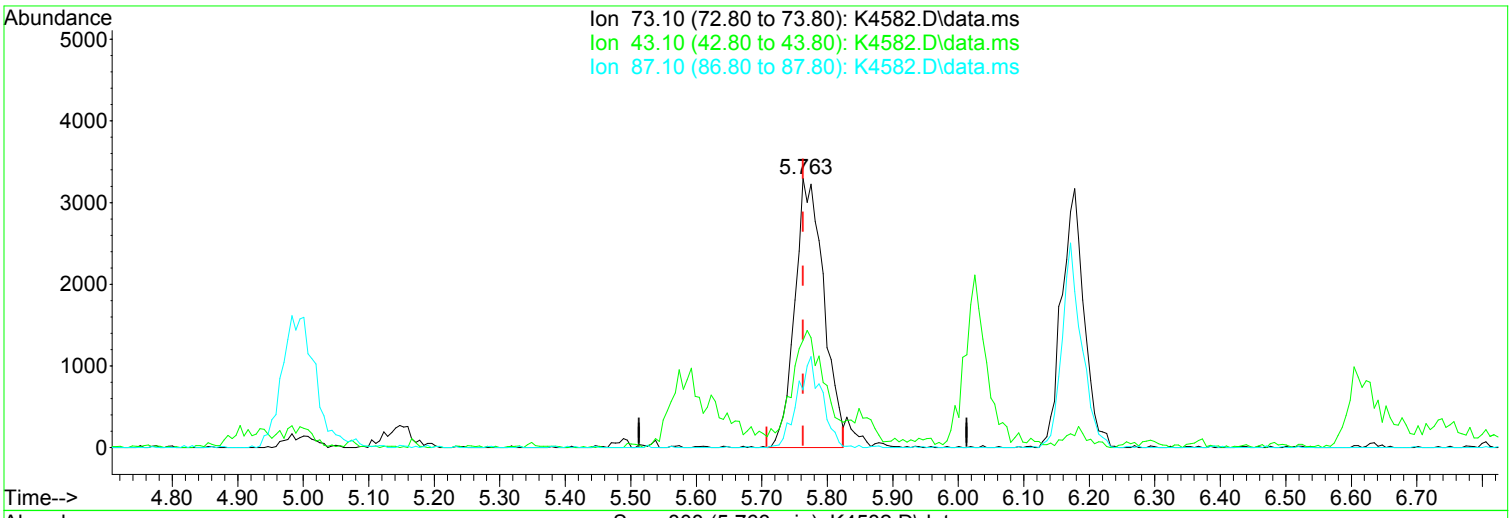
Split Peak.

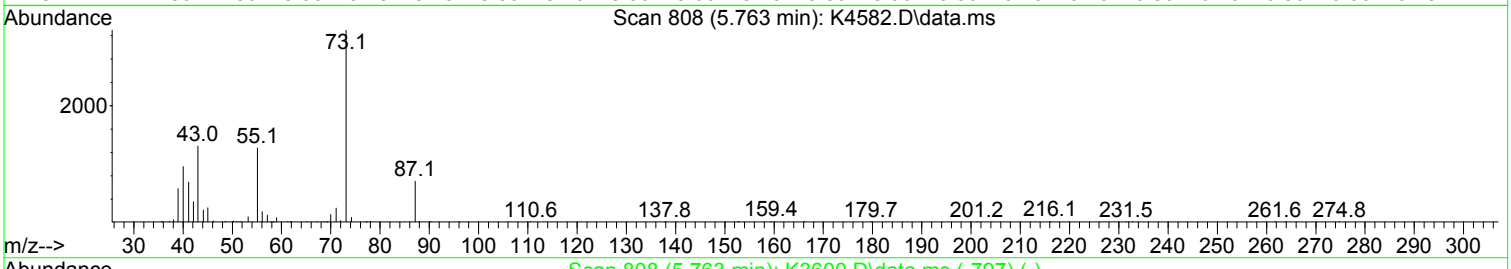
07/31/24

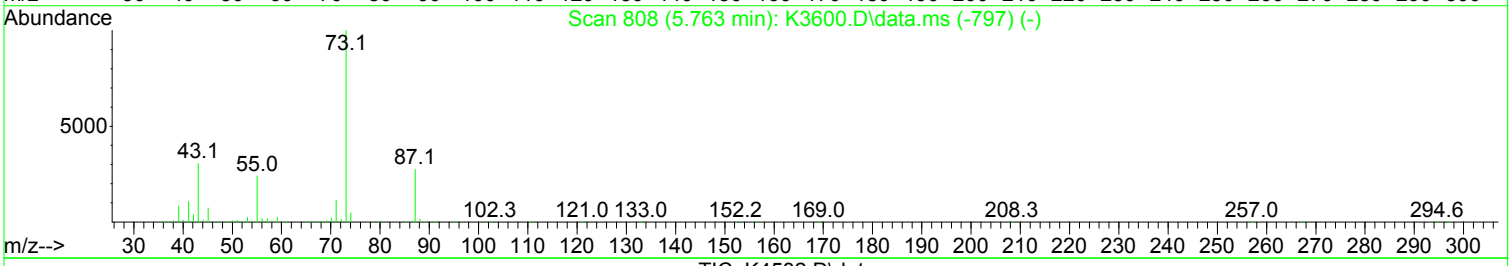
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(41) TAME

5.763min (-0.000) 1.02 ug/L

response 10076

Ion	Exp%	Act%
73.10	100.00	100.00
43.10	31.20	39.82
87.10	27.50	21.43
0.00	0.00	0.00

Manual Integration:

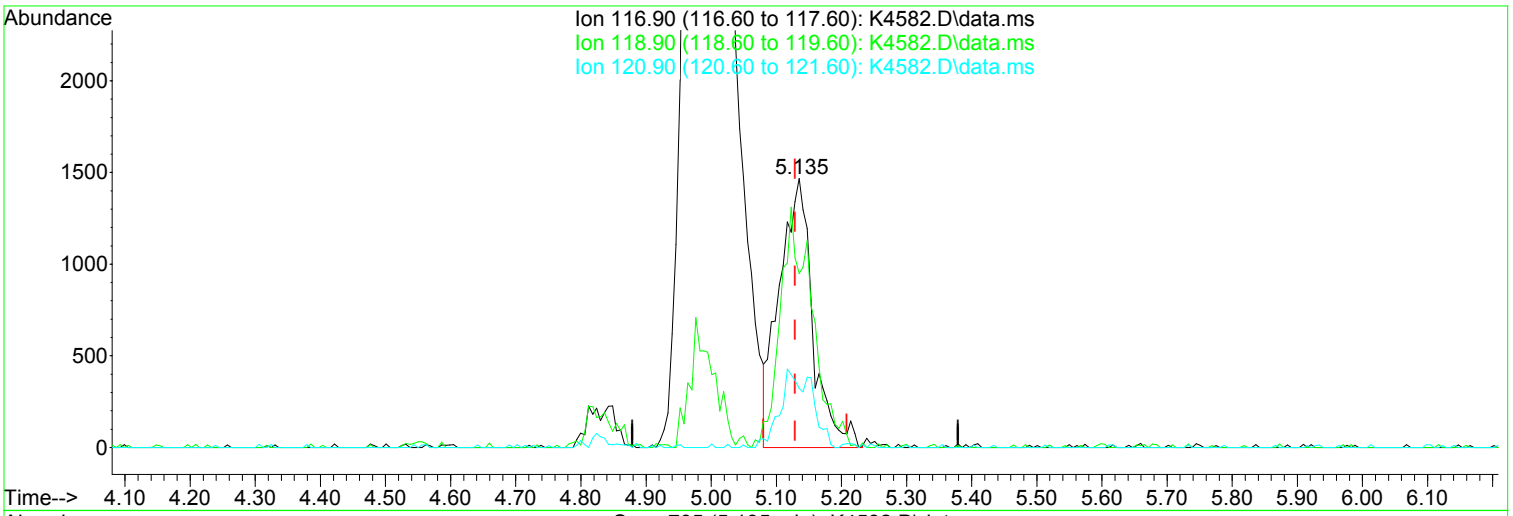
Before

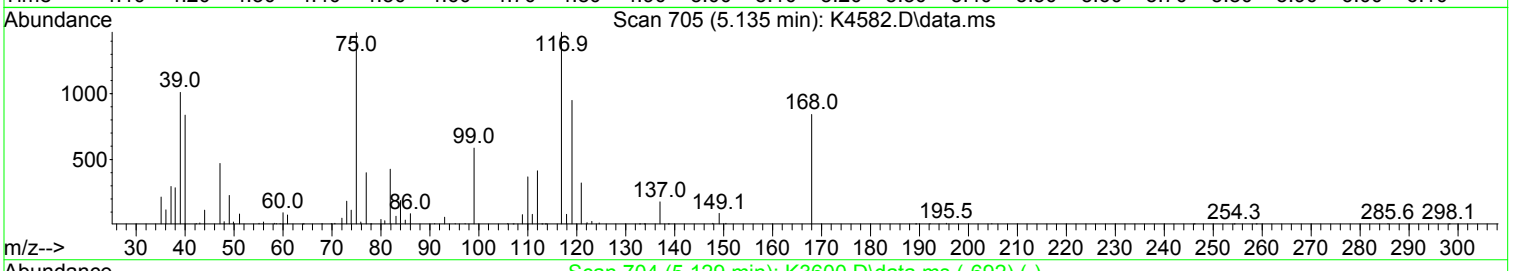
07/31/24

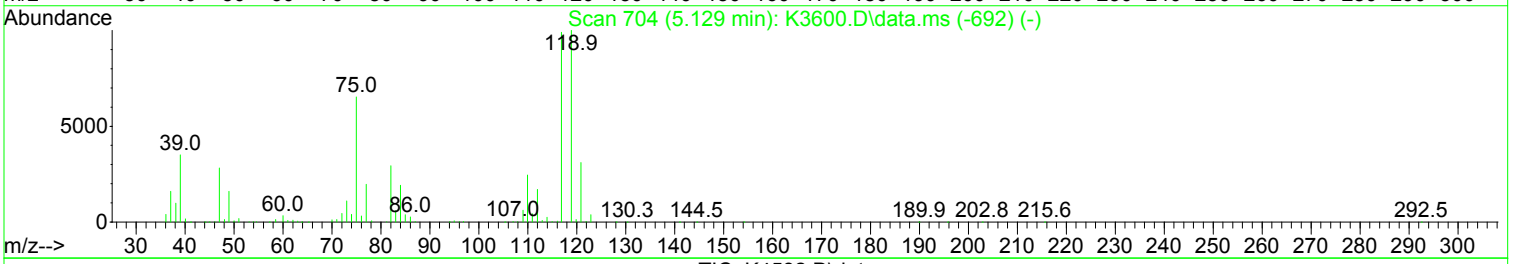
1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(45) Carbontetrachloride (P)

5.135min (+ 0.006) 1.10 ug/L m

response 5237

Ion	Exp%	Act%
116.90	100.00	100.00
118.90	98.90	64.76#
120.90	30.70	21.95
0.00	0.00	0.00

Manual Integration:

After

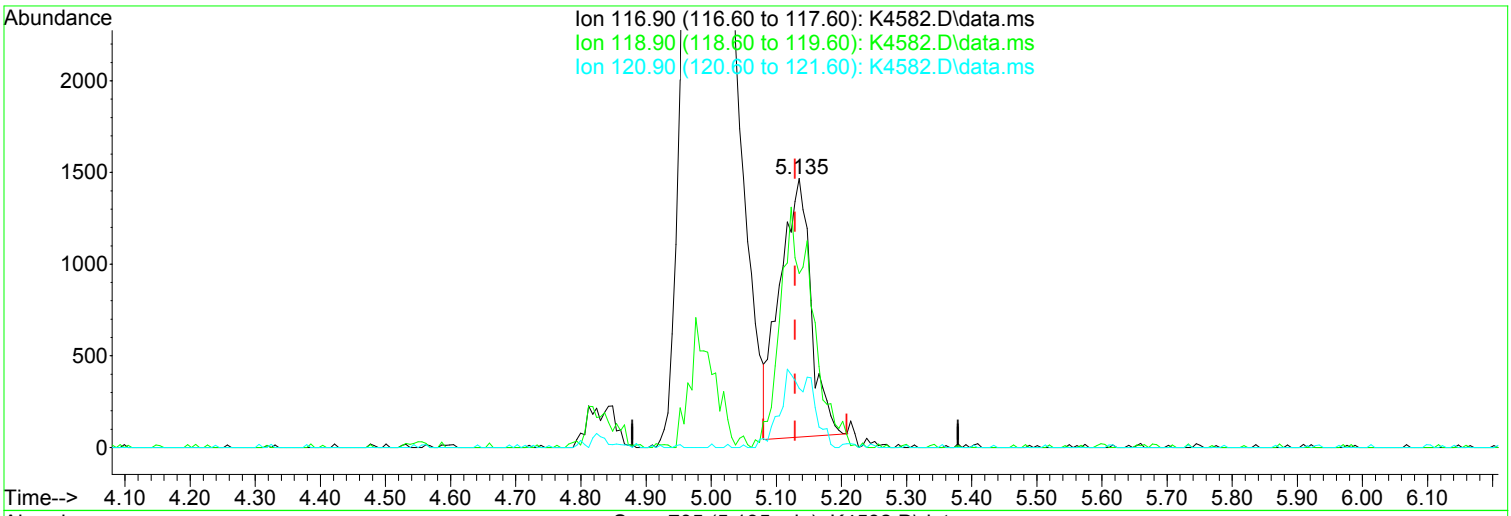
Poor integration.

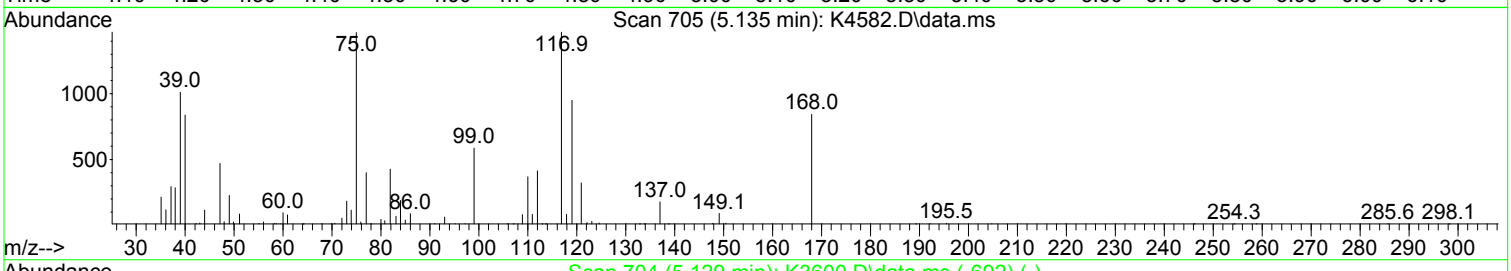
07/31/24

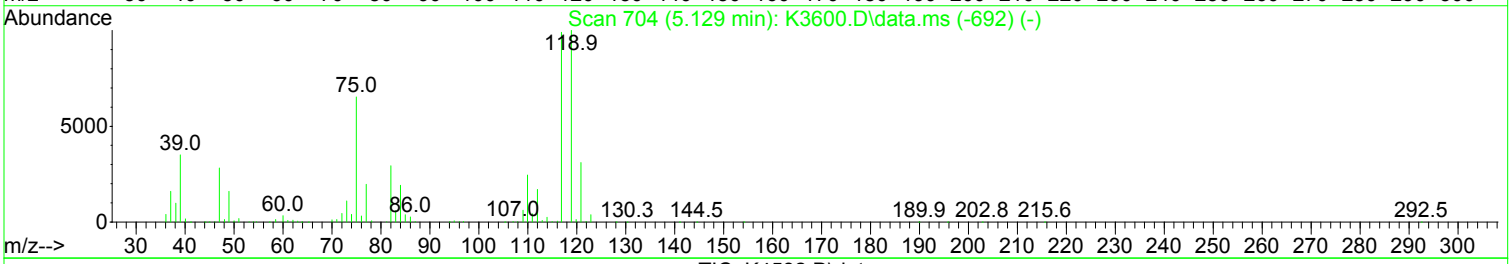
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(45) Carbontetrachloride (P)

5.135min (+ 0.006) 0.98 ug/L

response 4699

Ion	Exp%	Act%
116.90	100.00	100.00
118.90	98.90	64.76#
120.90	30.70	21.95
0.00	0.00	0.00

Manual Integration:

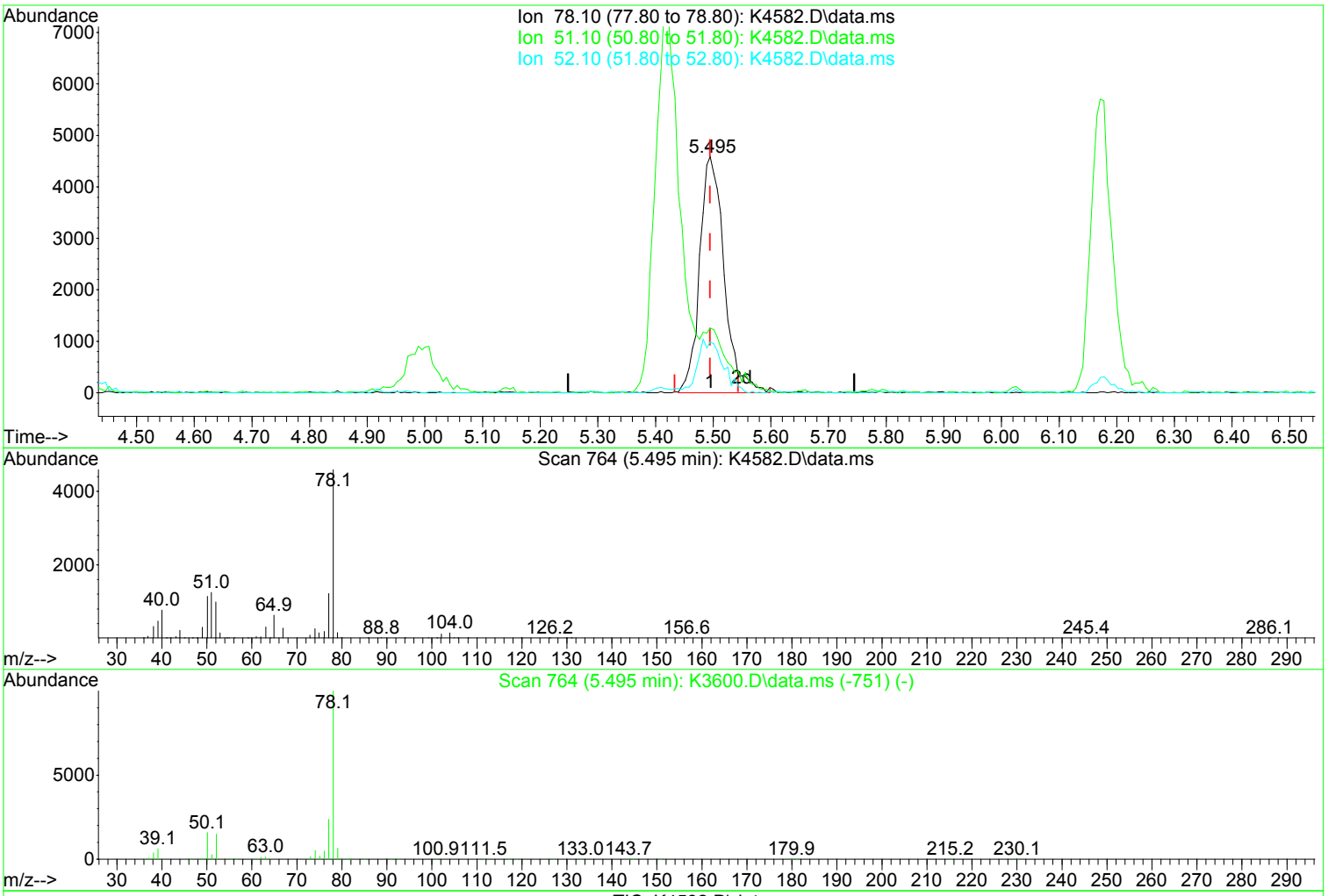
Before

07/31/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



TIC: K4582.D\data.ms

(48) Benzene (P)

5.495min (-0.000) 1.06 ug/L m

response 13557

Ion	Exp%	Act%
78.10	100.00	100.00
51.10	17.20	27.29
52.10	15.10	21.52
0.00	0.00	0.00

Manual Integration:

After

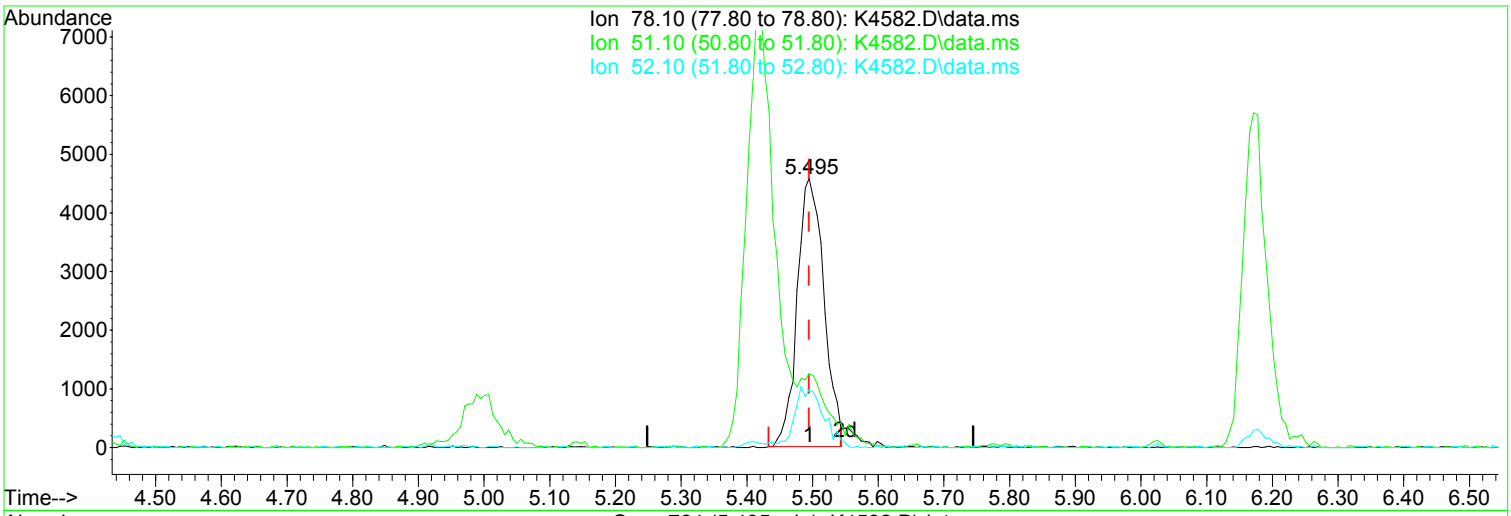
Poor integration.

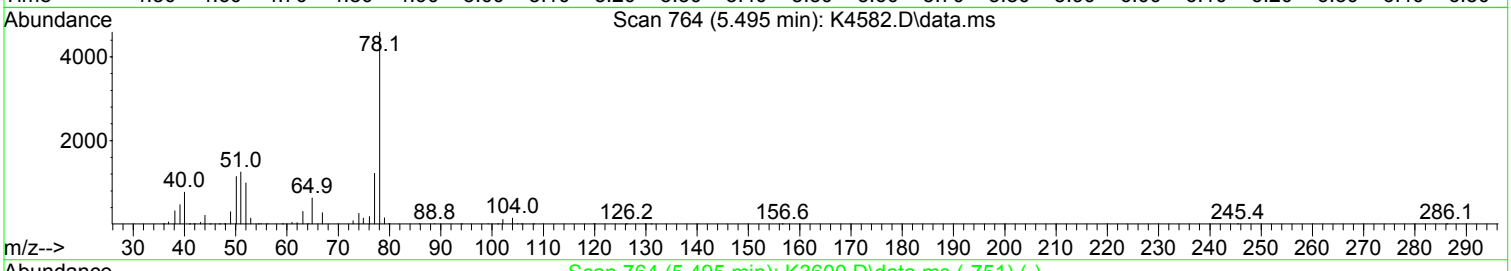
07/31/24

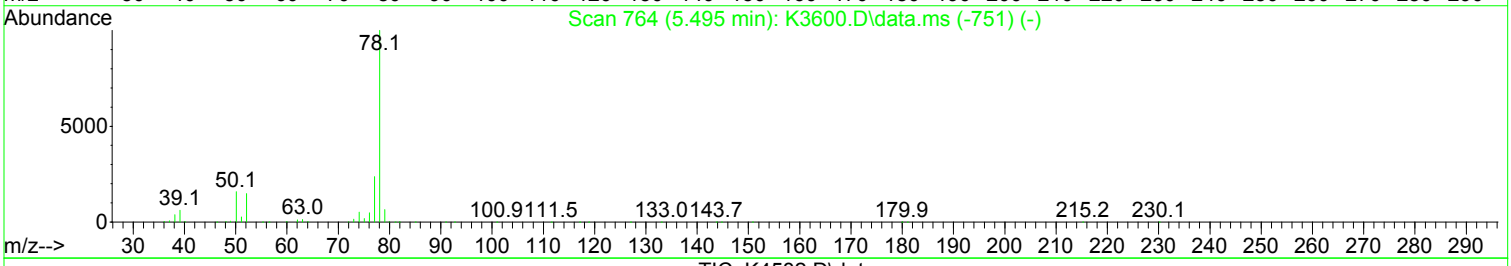
1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(48) Benzene (P)

5.495min (-0.000) 1.01 ug/L

response 12920

Ion	Exp%	Act%
78.10	100.00	100.00
51.10	17.20	27.29
52.10	15.10	21.52
0.00	0.00	0.00

Manual Integration:

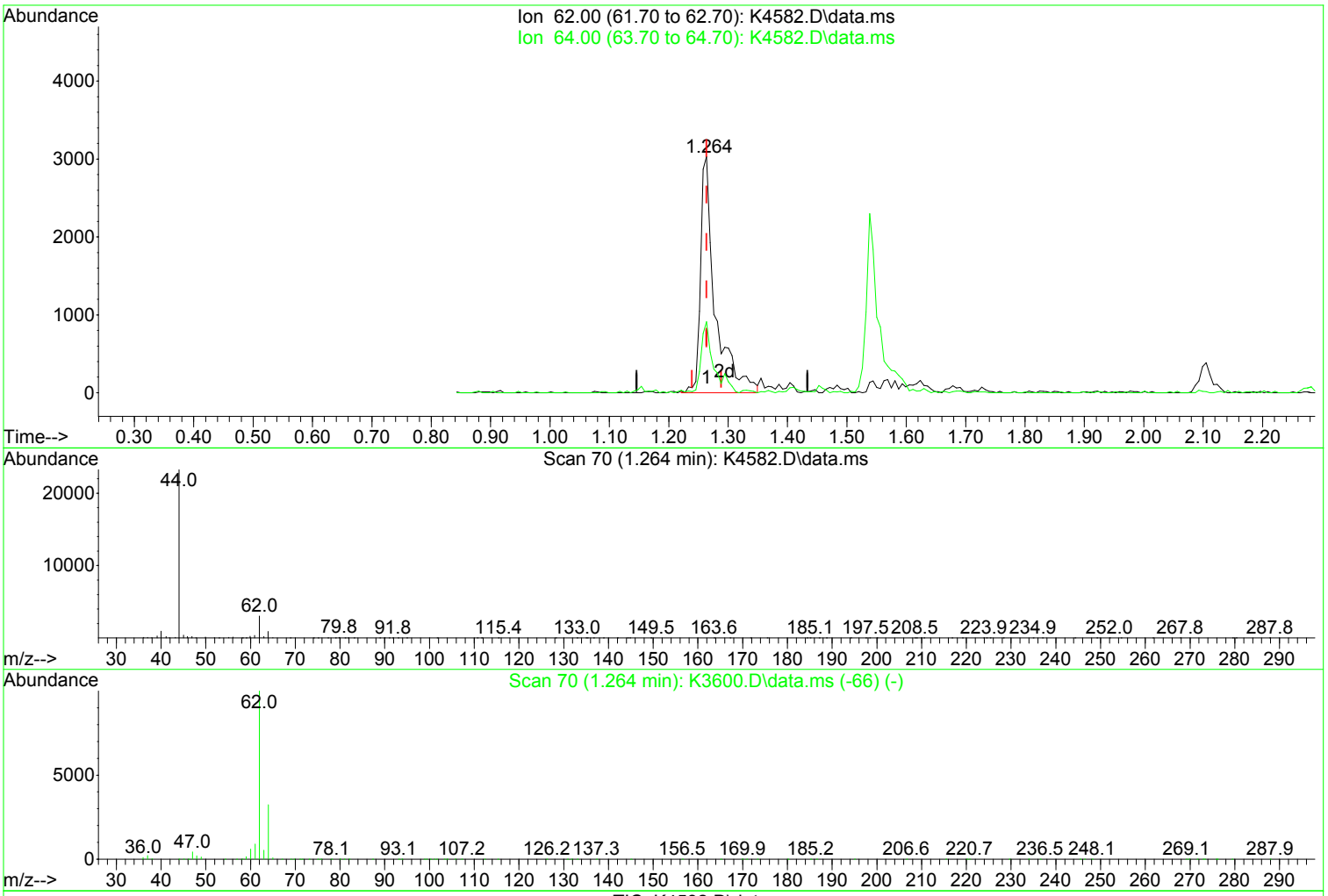
Before

07/31/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



TIC: K4582.D\data.ms

(5) Vinyl Chloride (P)

1.264min (-0.000) 1.08 ug/L m

response 5249

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	32.40	30.13
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

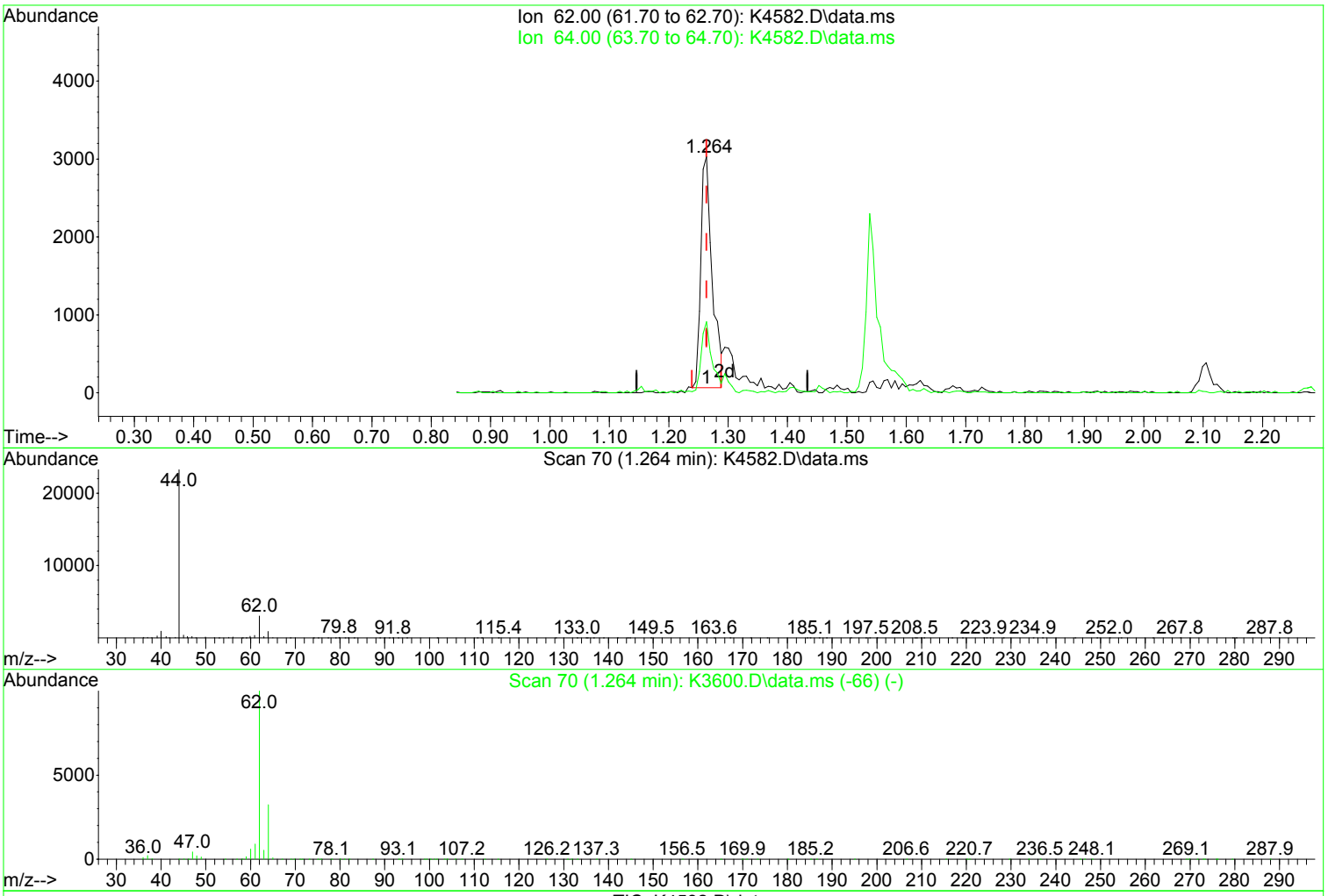
Split Peak.

07/31/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



TIC: K4582.D\data.ms

(5) Vinyl Chloride (P)

1.264min (-0.000) 0.82 ug/L

response 3990

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	32.40	30.13
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

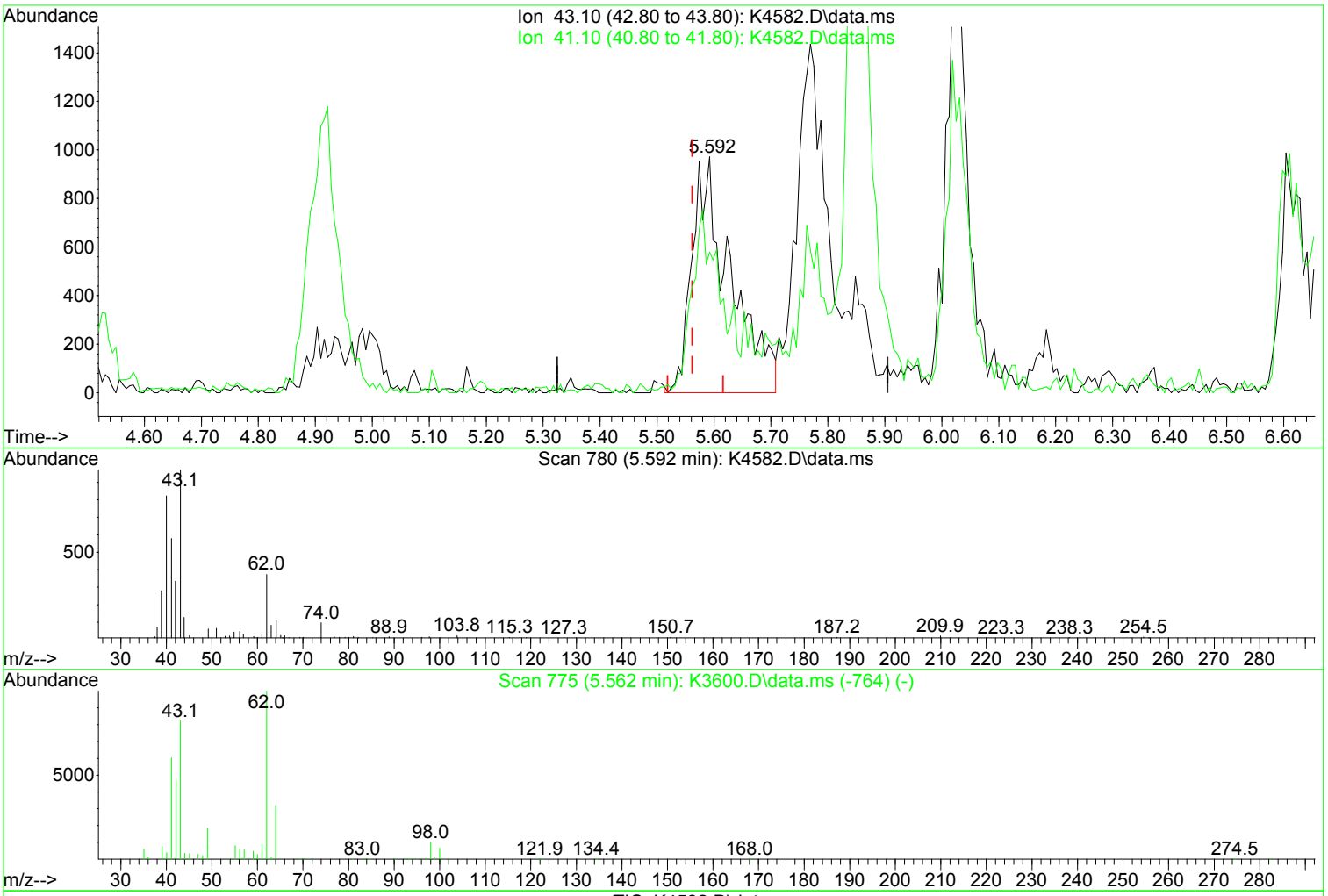
Before

07/31/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



TIC: K4582.D\data.ms

(50) Iso-Butyl Alcohol

5.592min (+ 0.030) 14.75 ug/L m

response 4548

Ion	Exp%	Act%
43.10	100.00	100.00
41.10	73.40	59.57
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

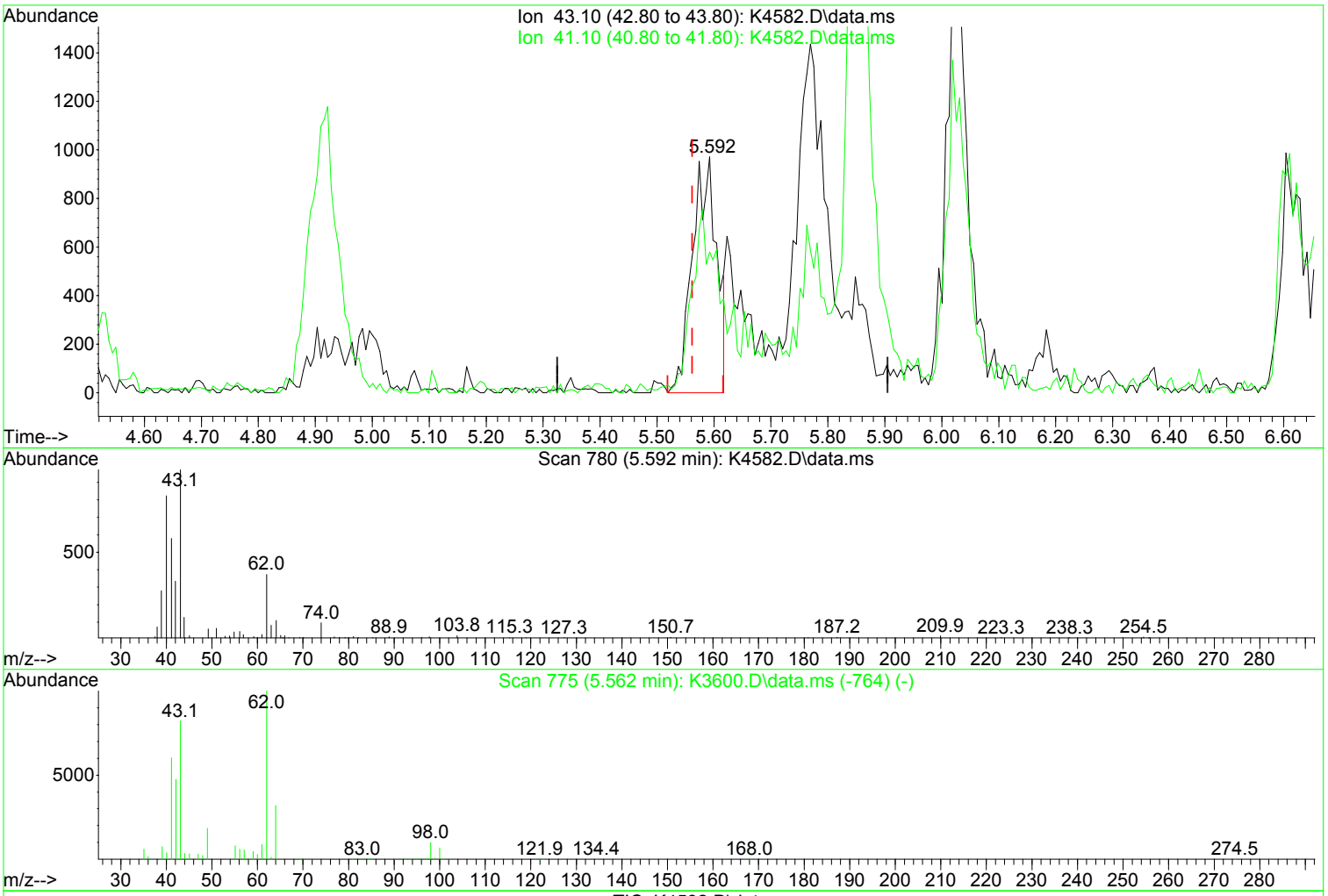
Poor integration.

07/31/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



TIC: K4582.D\data.ms

(50) Iso-Butyl Alcohol

5.592min (+ 0.030) 9.35 ug/L

response 2883

Ion	Exp%	Act%
43.10	100.00	100.00
41.10	73.40	59.57
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

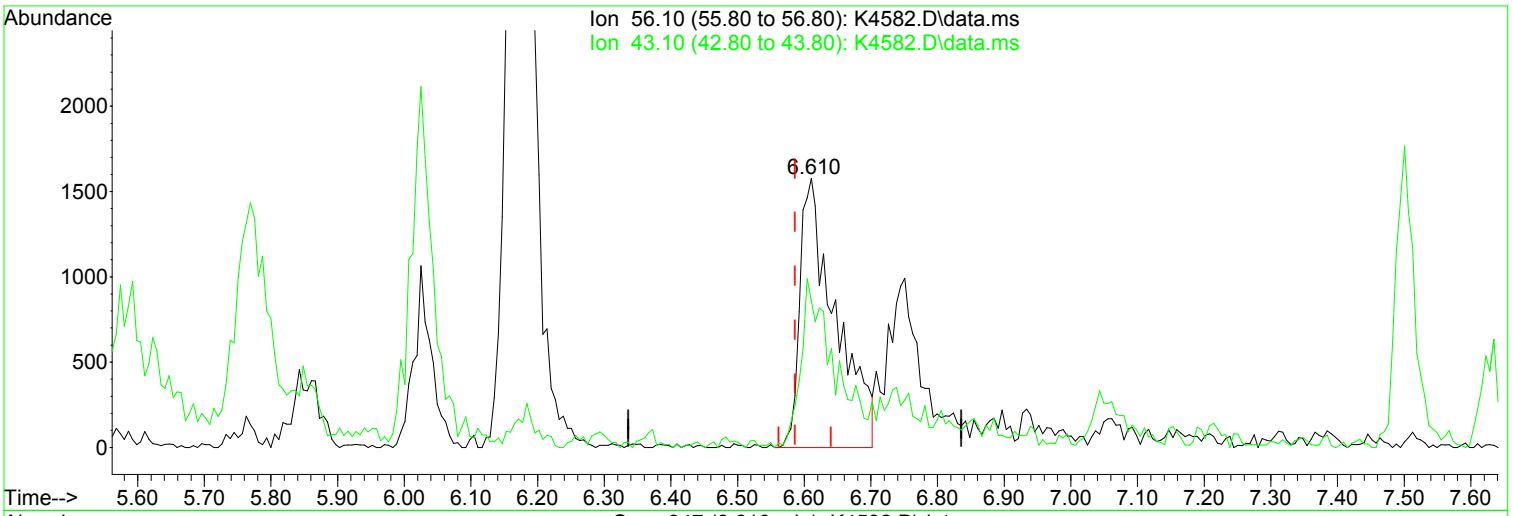
Before

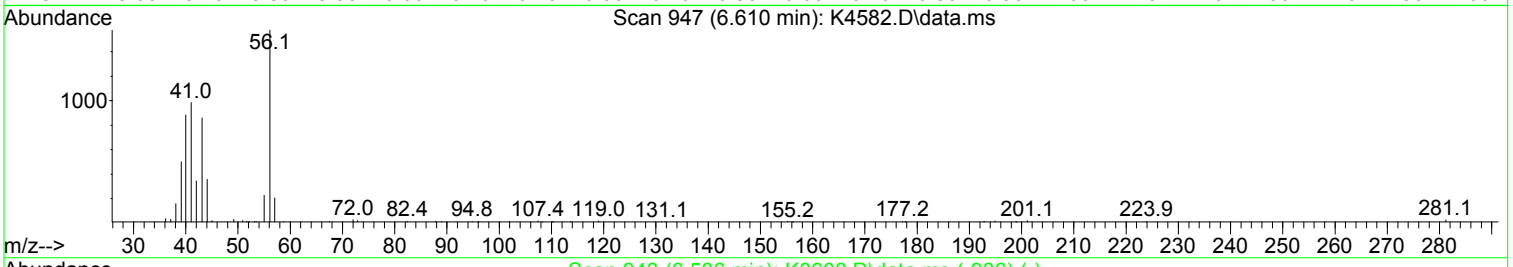
07/31/24

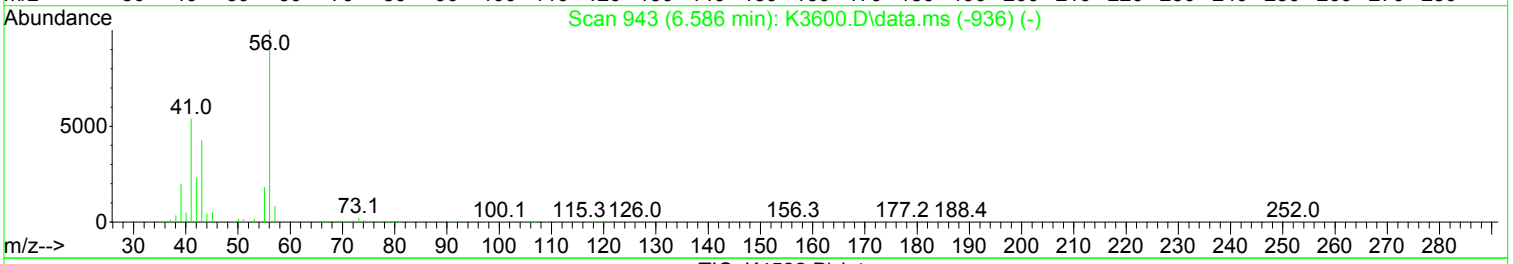
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(52) 1-Butanol

6.610min (+ 0.024) 28.79 ug/L m

response 5818

Ion	Exp%	Act%
56.10	100.00	100.00
43.10	42.60	54.63
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

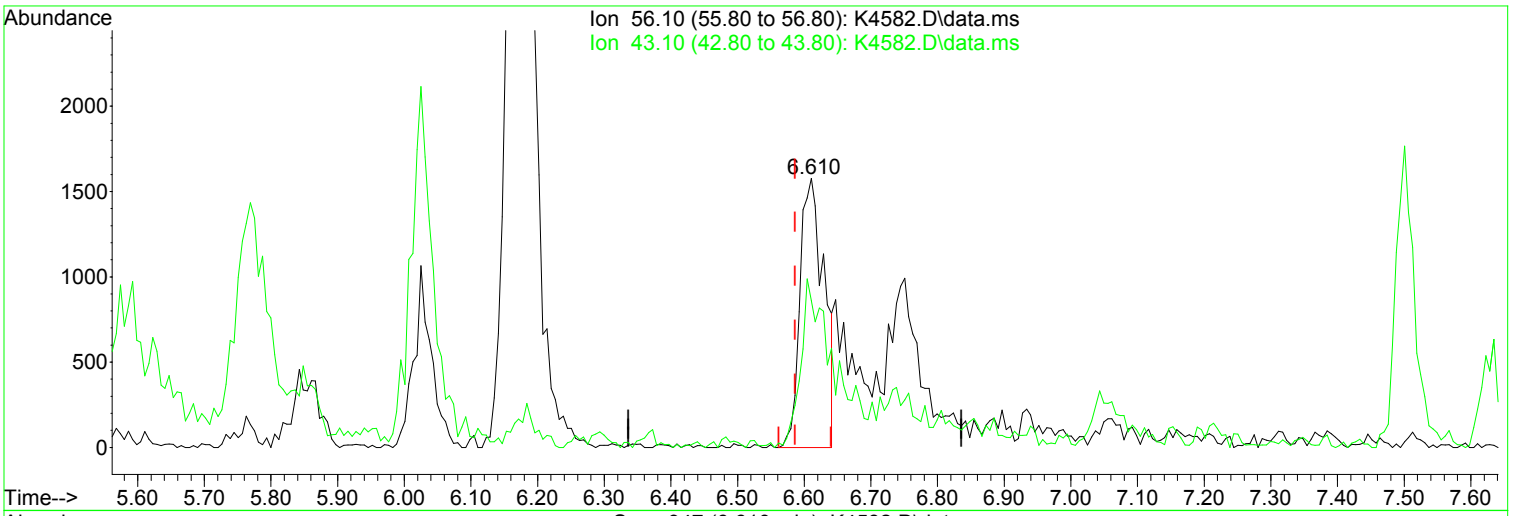
Poor integration.

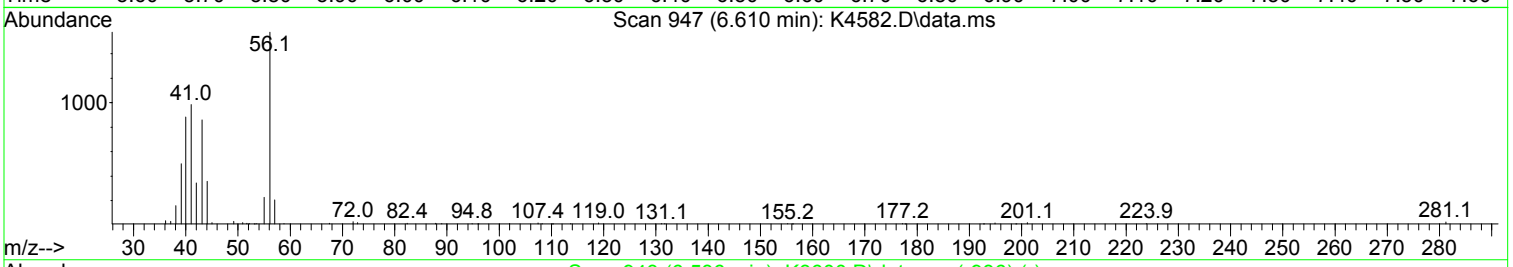
07/31/24

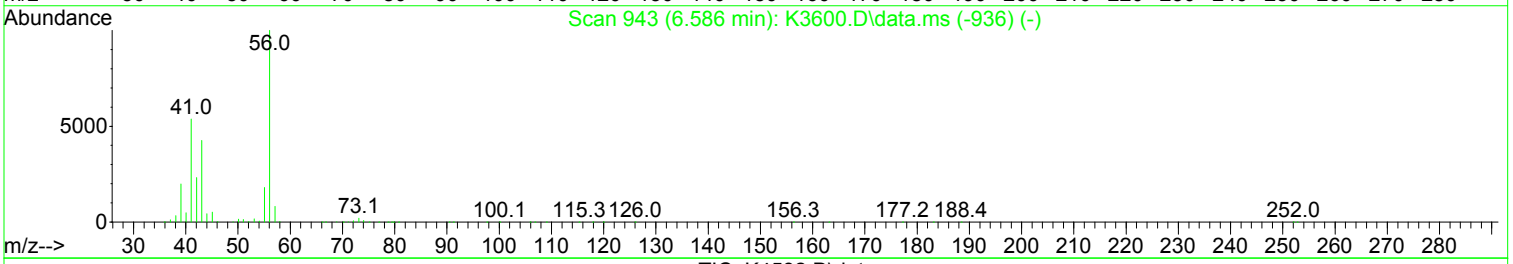
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(52) 1-Butanol

6.610min (+ 0.024) 19.62 ug/L

response 3965

Ion	Exp%	Act%
56.10	100.00	100.00
43.10	42.60	54.63
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

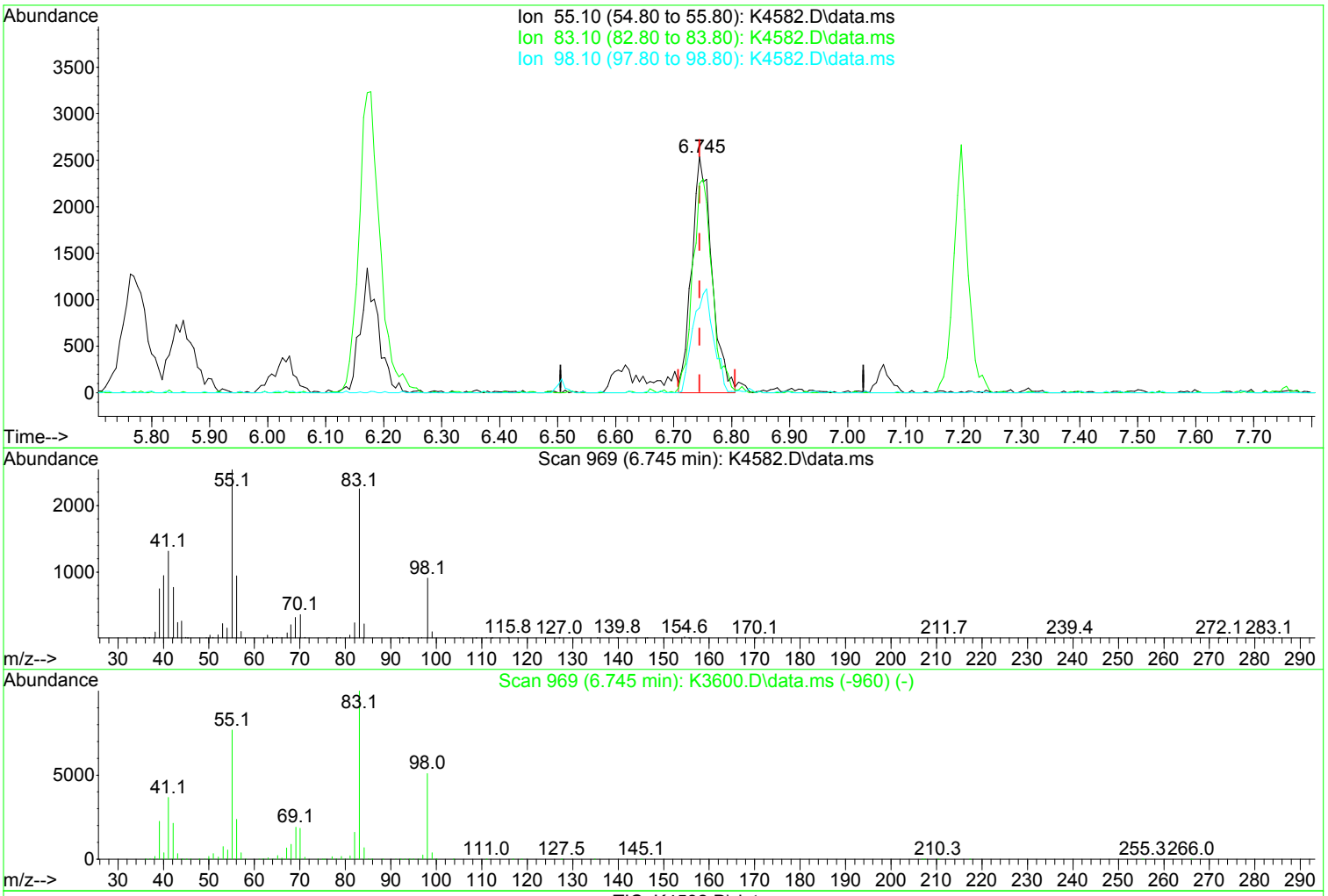
Before

07/31/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



TIC: K4582.D\data.ms

(54) Methylcyclohexane (P)

6.745min (-0.000) 1.14 ug/L m

response 6147

Ion	Exp%	Act%
55.10	100.00	100.00
83.10	129.30	88.65#
98.10	65.80	35.89#
0.00	0.00	0.00

Manual Integration:

After

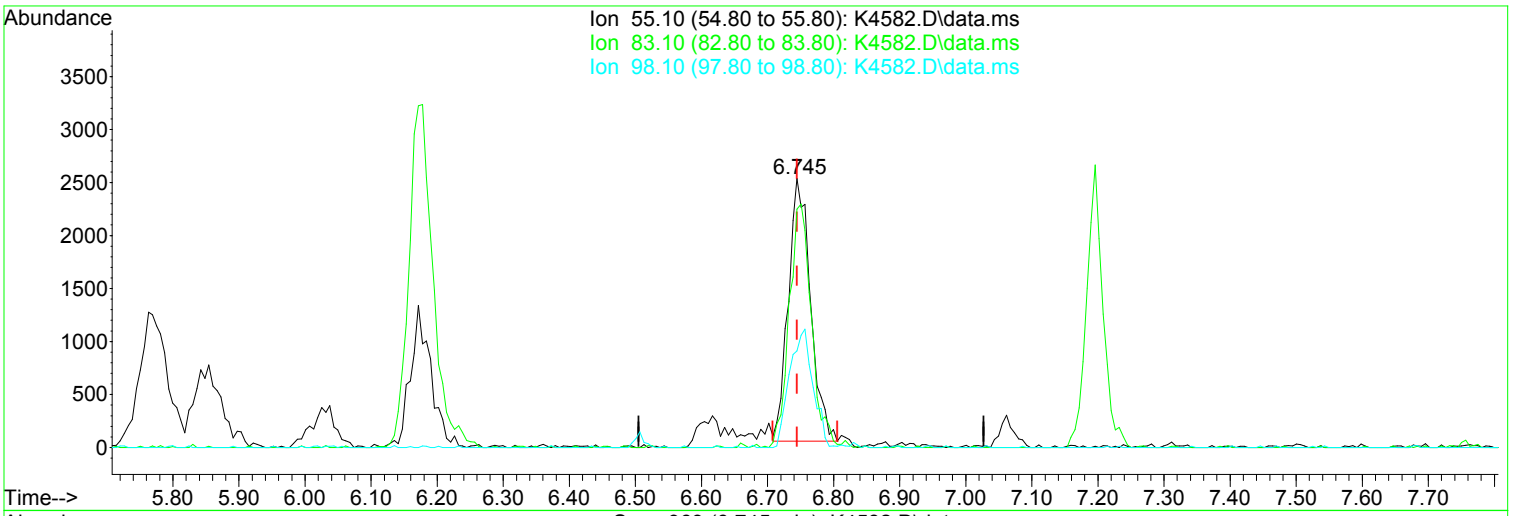
Poor integration.

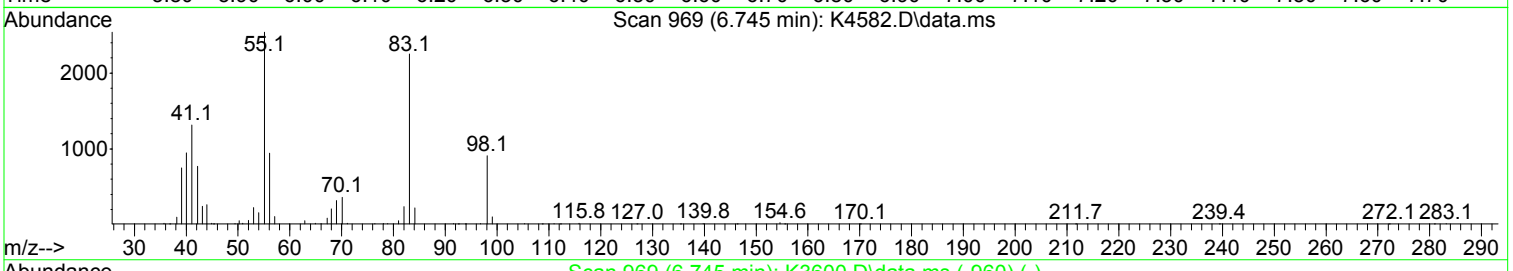
07/31/24

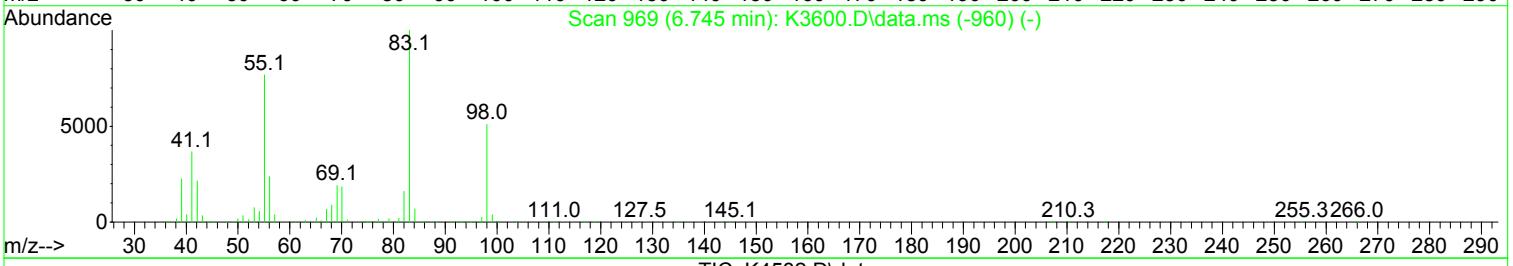
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(54) Methylcyclohexane (P)

6.745min (-0.000) 1.08 ug/L

response 5790

Ion	Exp%	Act%
55.10	100.00	100.00
83.10	129.30	88.65#
98.10	65.80	35.89#
0.00	0.00	0.00

Manual Integration:

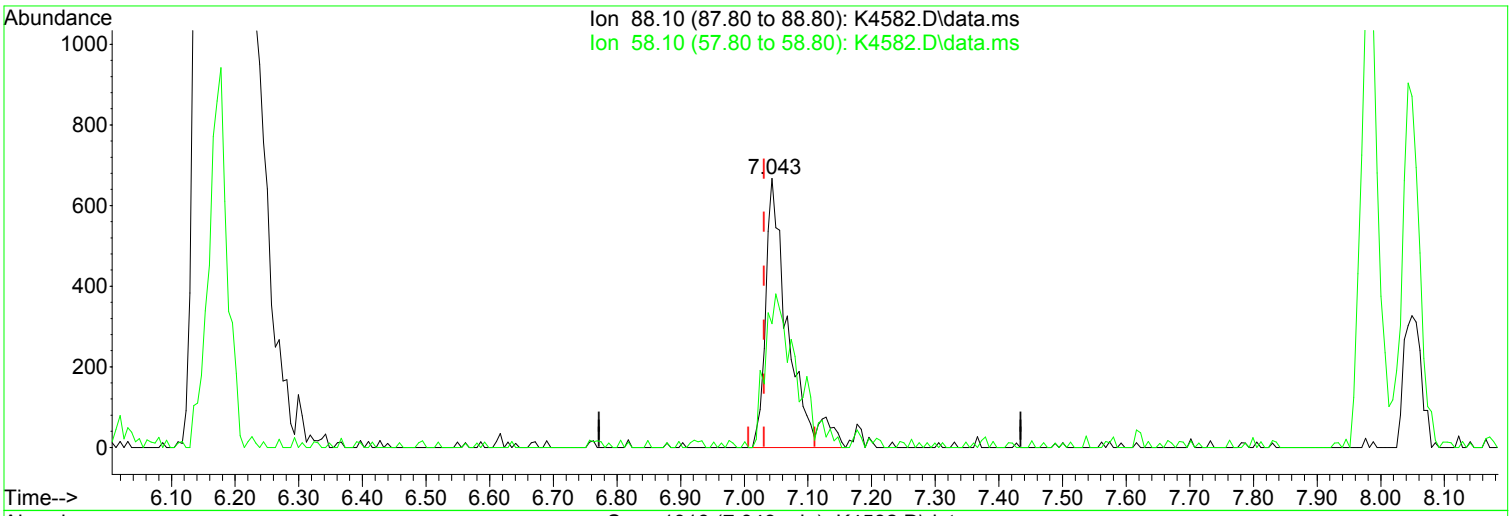
Before

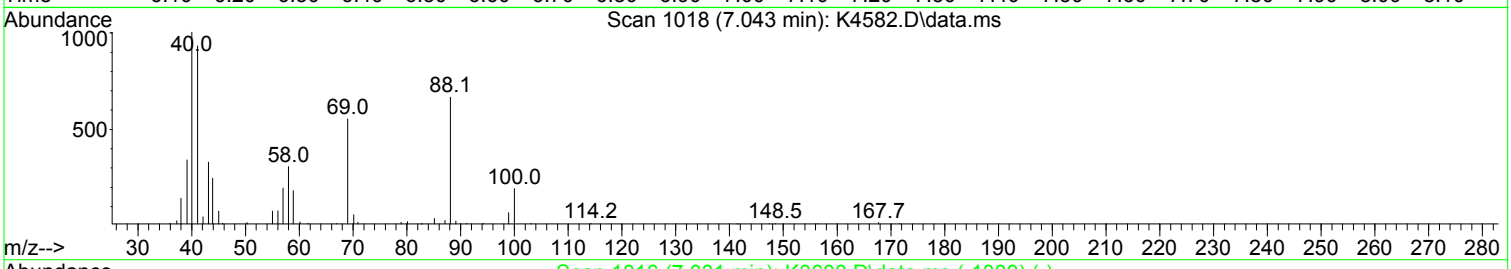
07/31/24

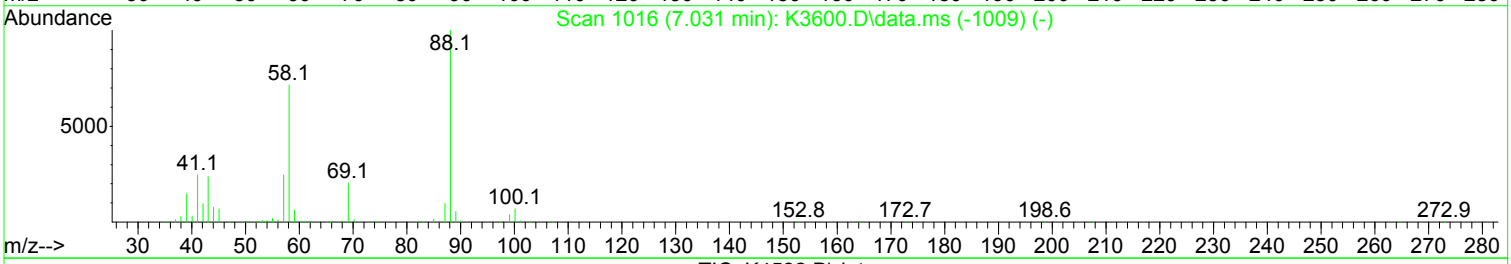
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(57) 1,4-Dioxane

7.043min (+ 0.012) 19.96 ug/L m

response 1641

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	71.50	46.03#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

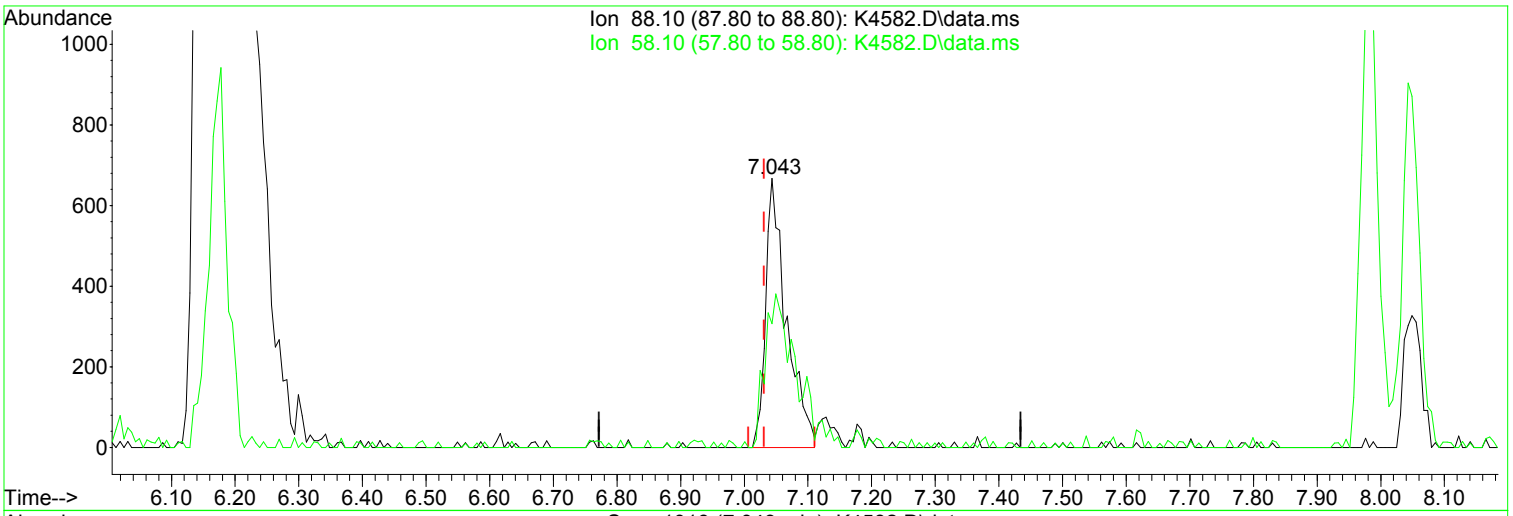
Poor integration.

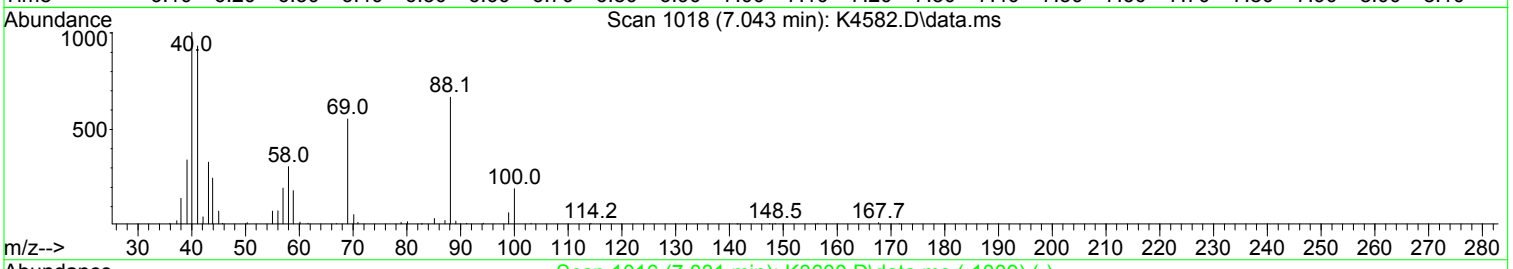
07/31/24

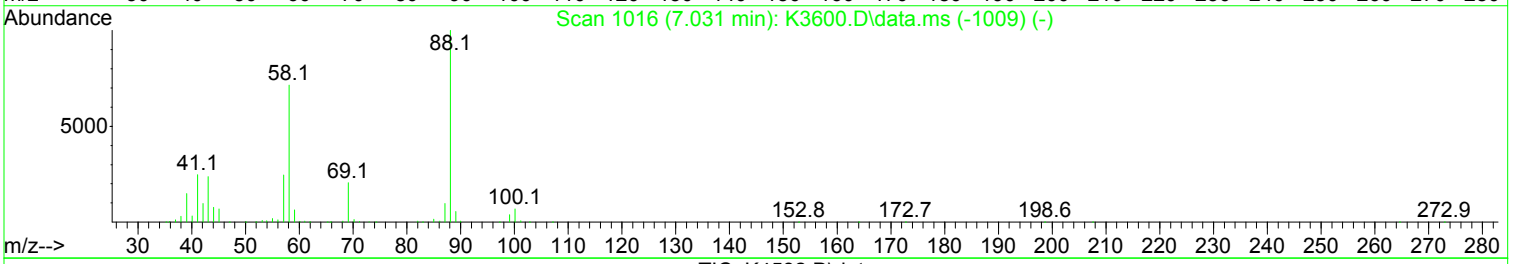
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4582.D\data.ms

(57) 1,4-Dioxane

7.043min (+ 0.012) 18.40 ug/L

response 1513

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	71.50	46.03#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

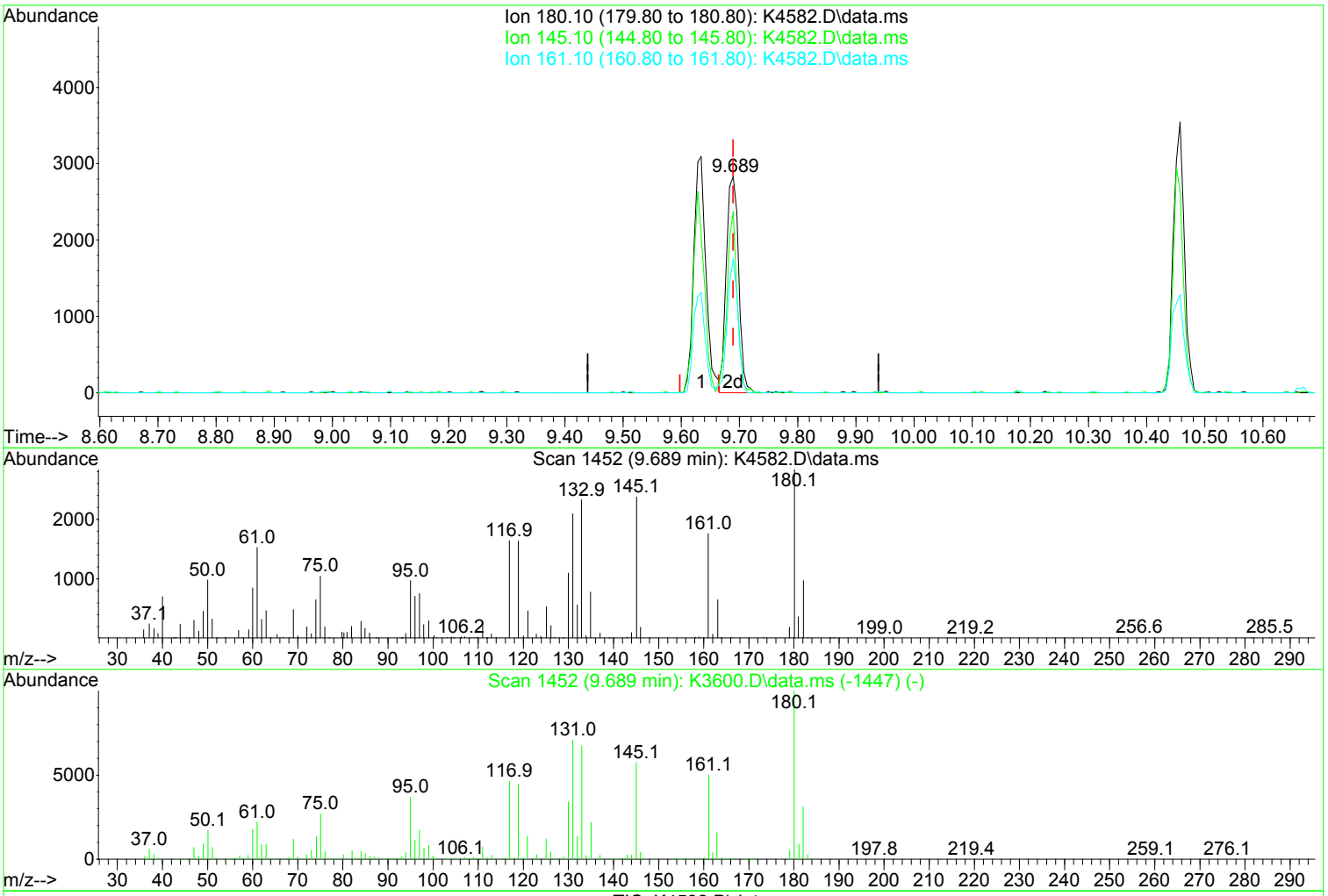
Before

07/31/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



(79) 4-Chlorobenzotrifluoride

9.689min (-0.000) 1.04 ug/L m

response 4161

Ion	Exp%	Act%
180.10	100.00	100.00
145.10	57.50	83.90#
161.10	49.80	62.01
0.00	0.00	0.00

Manual Integration:

After

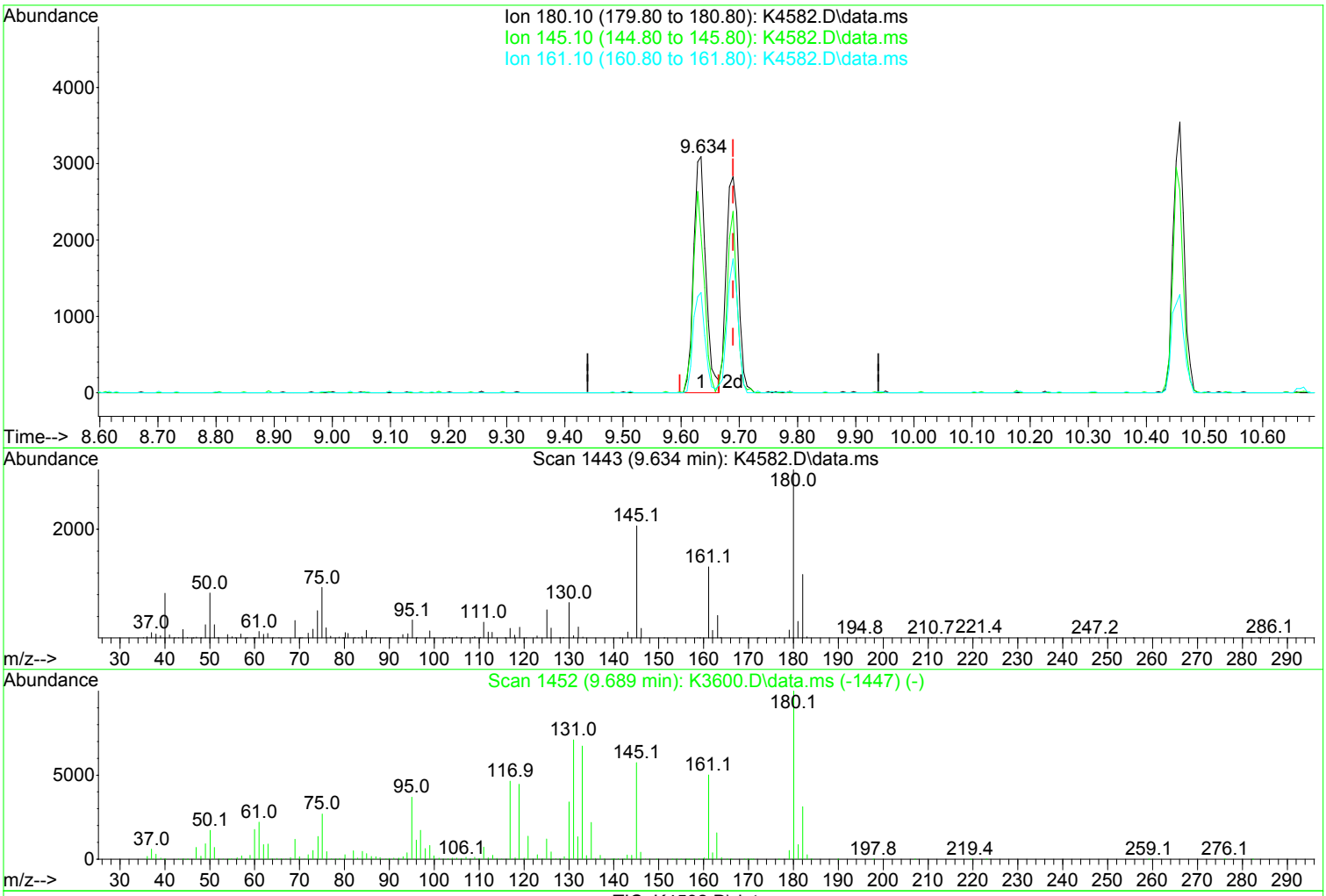
Wrong peak selected.

07/31/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



TIC: K4582.D\data.ms

(79) 4-Chlorobenzotrifluoride

9.634min (-0.055) 1.14 ug/L

response 4541

Ion	Exp%	Act%
180.10	100.00	100.00
145.10	57.50	66.72
161.10	49.80	42.43
0.00	0.00	0.00

Manual Integration:

Before

07/31/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.995	168	358443	50.00	ug/L		0.00
42) 1,4-Difluorobenzene	6.171	114	600446	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.573	117	531109	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	235078	50.00	ug/L		0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.830	113	38822	10.36	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 20.72%#				
47) surr1,1,2-dichloroetha...	5.416	65	57157	11.16	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 22.32%#				
64) SURR3,Toluene-d8	8.049	98	151165	11.00	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 22.00%#				
69) SURR2,BFB	10.665	95	58256	10.78	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 21.56%#				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.087	51	4930	1.011	ug/L		94
3) Dichlorodifluoromethane	1.075	85	4359m	1.041	ug/L		
4) Chloromethane	1.209	50	4963m	1.055	ug/L		
5) Vinyl Chloride	1.264	62	5249m	1.082	ug/L		
6) Bromomethane	1.477	94	2656	1.373	ug/L		92
7) Chloroethane	1.538	64	3391	1.103	ug/L		88
8) Freon 21	1.678	67	6652	1.017	ug/L		97
9) Trichlorofluoromethane	1.721	101	5517	1.022	ug/L		90
10) Diethyl Ether	1.928	59	4131	1.064	ug/L	#	79
11) Freon 123a	1.941	67	3857	1.002	ug/L		84
12) Freon 123	1.989	83	4518m	1.029	ug/L		
13) Acrolein	2.032	56	2555	4.512	ug/L		80
14) 1,1-Diclethene	2.105	96	3006	0.989	ug/L	#	82
15) Freon 113	2.111	101	3283	1.051	ug/L		93
16) Acetone	2.154	43	4157	1.449	ug/L		89
17) 2-Propanol	2.282	45	10031	17.729	ug/L		93
18) Iodomethane	2.221	142	4225	0.892	ug/L		100
19) Carbon Disulfide	2.276	76	6816	0.911	ug/L		98
20) Acetonitrile/Allyl Chl...	2.410	41	9474	6.276	ug/L		75
21) Methyl Acetate	2.440	43	5623	1.123	ug/L		89
22) Methylene Chloride	2.520	84	5905	1.315	ug/L	#	58
23) TBA	2.648	59	18737	17.866	ug/L		87
24) Acrylonitrile	2.764	53	13425	5.126	ug/L		94
25) Methyl-t-Butyl Ether	2.800	73	12675m	1.101	ug/L		
26) trans-1,2-Dichloroethene	2.782	96	3686	1.106	ug/L		93
27) 1,1-Diclethane	3.245	63	6812	0.991	ug/L		97
28) Vinyl Acetate	3.349	86	439m	0.654	ug/L		
29) DIPE	3.361	45	12620	1.040	ug/L		77
30) 2-Chloro-1,3-Butadiene	3.361	53	6792m	0.976	ug/L		
31) ETBE	3.849	59	13472	1.048	ug/L		89
32) 2,2-Dichloropropane	4.013	77	3979	0.920	ug/L		78
33) cis-1,2-Dichloroethene	4.026	96	4111	1.076	ug/L		86
34) 2-Butanone	4.086	43	3363	0.982	ug/L		84
35) Propionitrile	4.166	54	5784	4.945	ug/L		93
36) Bromochloromethane	4.379	130	2613	1.032	ug/L	#	37
37) Methacrylonitrile	4.397	67	2043m	0.937	ug/L		
38) Tetrahydrofuran	4.501	42	2378	1.089	ug/L		78
39) Chloroform	4.550	83	6901	1.080	ug/L		96
40) 1,1,1-Trichloroethane	4.836	97	5666m	1.105	ug/L		

1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) TAME	5.763	73	10487m	1.058	ug/L		
43) Cyclohexane	4.922	41	4104	1.161	ug/L		73
45) Carbontetrachloride	5.135	117	5237m	1.097	ug/L		
46) 1,1-Dichloropropene	5.147	75	4970	1.127	ug/L		86
48) Benzene	5.495	78	13557m	1.062	ug/L		
49) 1,2-Dichloroethane	5.550	62	6984	1.091	ug/L		96
50) Iso-Butyl Alcohol	5.592	43	4548m	14.752	ug/L		
51) n-Heptane	6.025	43	4799	0.998	ug/L	#	65
52) 1-Butanol	6.610	56	5818m	28.793	ug/L		
53) Trichloroethene	6.507	130	4003	1.051	ug/L		88
54) Methylcyclohexane	6.745	55	6147m	1.144	ug/L		
55) 1,2-Diclpropane	6.806	63	4372	1.125	ug/L		83
56) Dibromomethane	6.952	93	2571	1.055	ug/L		90
57) 1,4-Dioxane	7.043	88	1641m	19.959	ug/L		
58) Methyl Methacrylate	7.068	69	3318	1.021	ug/L	#	67
59) Bromodichloromethane	7.196	83	4603	1.005	ug/L		96
60) 2-Nitropropane	7.500	41	2583	1.578	ug/L		88
61) 2-Chloroethylvinyl Ether	7.622	63	1326	1.056	ug/L		74
62) cis-1,3-Dichloropropene	7.750	75	5069	0.972	ug/L		95
63) 4-Methyl-2-pentanone	7.982	43	5903	0.969	ug/L		83
65) Toluene	8.122	91	16240	1.114	ug/L		95
66) trans-1,3-Dichloropropene	8.415	75	4476	0.893	ug/L		93
67) Ethyl Methacrylate	8.567	69	5504	0.981	ug/L	#	63
68) 1,1,2-Trichloroethane	8.598	97	3862	1.099	ug/L		97
71) Tetrachloroethene	8.726	164	2848	1.087	ug/L		93
72) 2-Hexanone	8.915	43	4390	0.938	ug/L		78
73) 1,3-Dichloropropane	8.775	76	6331	1.105	ug/L	#	66
74) Dibromochloromethane	9.000	129	3441	0.930	ug/L		97
75) N-Butyl Acetate	9.073	43	8805	0.981	ug/L		94
76) 1,2-Dibromoethane	9.098	107	4045	1.067	ug/L		93
77) 3-Chlorobenzotrifluoride	9.634	180	4541	1.052	ug/L	#	93
78) Chlorobenzene	9.598	112	11419	1.147	ug/L		99
79) 4-Chlorobenzotrifluoride	9.689	180	4161m	1.041	ug/L		
80) 1,1,1,2-Tetrachloroethane	9.695	131	3482	0.971	ug/L		90
81) Ethylbenzene	9.726	106	5526	1.104	ug/L		94
82) (m+p)Xylene	9.842	106	13144	2.134	ug/L		96
83) o-Xylene	10.201	106	6308	1.028	ug/L		99
84) Styrene	10.213	104	10004	0.969	ug/L		91
85) Bromoform	10.366	173	1737	0.830	ug/L		97
86) 2-Chlorobenzotrifluoride	10.457	180	4609	1.054	ug/L		98
87) Isopropylbenzene	10.543	105	15995	1.017	ug/L		93
88) Cyclohexanone	10.610	55	21679	18.657	ug/L		95
89) trans-1,4-Dichloro-2-B...	10.860	53	2283	1.029	ug/L	#	72
91) 1,1,2,2-Tetrachloroethane	10.811	83	5428	1.103	ug/L		92
92) Bromobenzene	10.780	156	4273	1.139	ug/L	#	75
93) 1,2,3-Trichloropropane	10.835	110	1973	1.106	ug/L		86
94) n-Propylbenzene	10.896	91	18825	1.105	ug/L		96
95) 2-Chlorotoluene	10.957	91	12158	1.135	ug/L		96
96) 3-Chlorotoluene	11.012	91	12386	1.143	ug/L		99
97) 4-Chlorotoluene	11.055	91	13991	1.135	ug/L		95
98) 1,3,5-Trimethylbenzene	11.055	105	14229	1.103	ug/L		98
99) tert-Butylbenzene	11.323	119	12111	1.100	ug/L		99
100) 1,2,4-Trimethylbenzene	11.366	105	14131	1.080	ug/L		96
101) 3,4-Dichlorobenzotrifl...	11.433	214	3202	1.127	ug/L		90
102) sec-Butylbenzene	11.512	105	16514	1.071	ug/L		98
103) p-Isopropyltoluene	11.634	119	14786	1.091	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

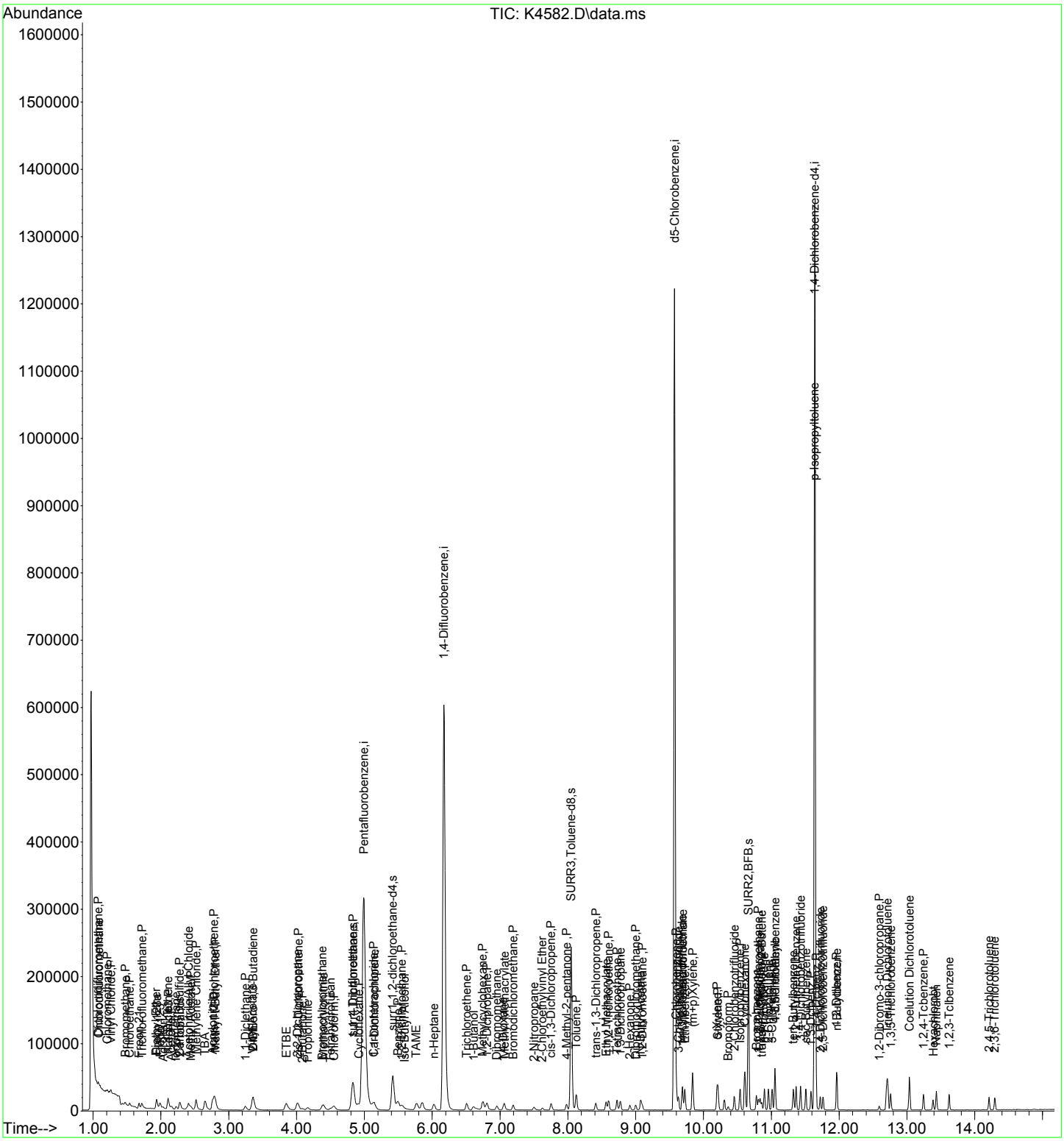
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
104) 1,3-Dclbenz	11.585	146	8052	1.121	ug/L		92
105) 1,4-Dclbenz	11.664	146	8259	1.139	ug/L		98
106) 2,4-Dichlorobenzotrifl...	11.725	214	2783	1.113	ug/L		91
107) 2,5-Dichlorobenzotrifl...	11.762	214	3167	1.136	ug/L		92
108) n-Butylbenzene	11.969	91	12447	1.054	ug/L		99
109) 1,2-Dclbenz	11.963	146	7835	1.105	ug/L		94
110) 1,2-Dibromo-3-chloropr...	12.591	157	952	0.813	ug/L	#	80
111) Trielution Dichlorotol...	12.713	125	21600	3.232	ug/L		91
112) 1,3,5-Trichlorobenzene	12.762	180	4811	1.038	ug/L		95
113) Coelution Dichlorotoluene	13.036	125	15348	2.135	ug/L		94
114) 1,2,4-Tcbenzene	13.243	180	4739	1.055	ug/L		96
115) Hexachlorobt	13.390	225	1968	1.190	ug/L		93
116) Naphthalen	13.432	128	16597	0.977	ug/L		99
117) 1,2,3-Tclbenzene	13.621	180	4596	1.038	ug/L		92
118) 2,4,5-Trichlorotoluene	14.213	159	3749	1.063	ug/L		94
119) 2,3,6-Trichlorotoluene	14.292	159	3361	1.030	ug/L		89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4582.D
Acq On : 31 Jul 2024 03:58 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260/624 ICAL
ALS Vial : 2 Sample Multiplier: 1

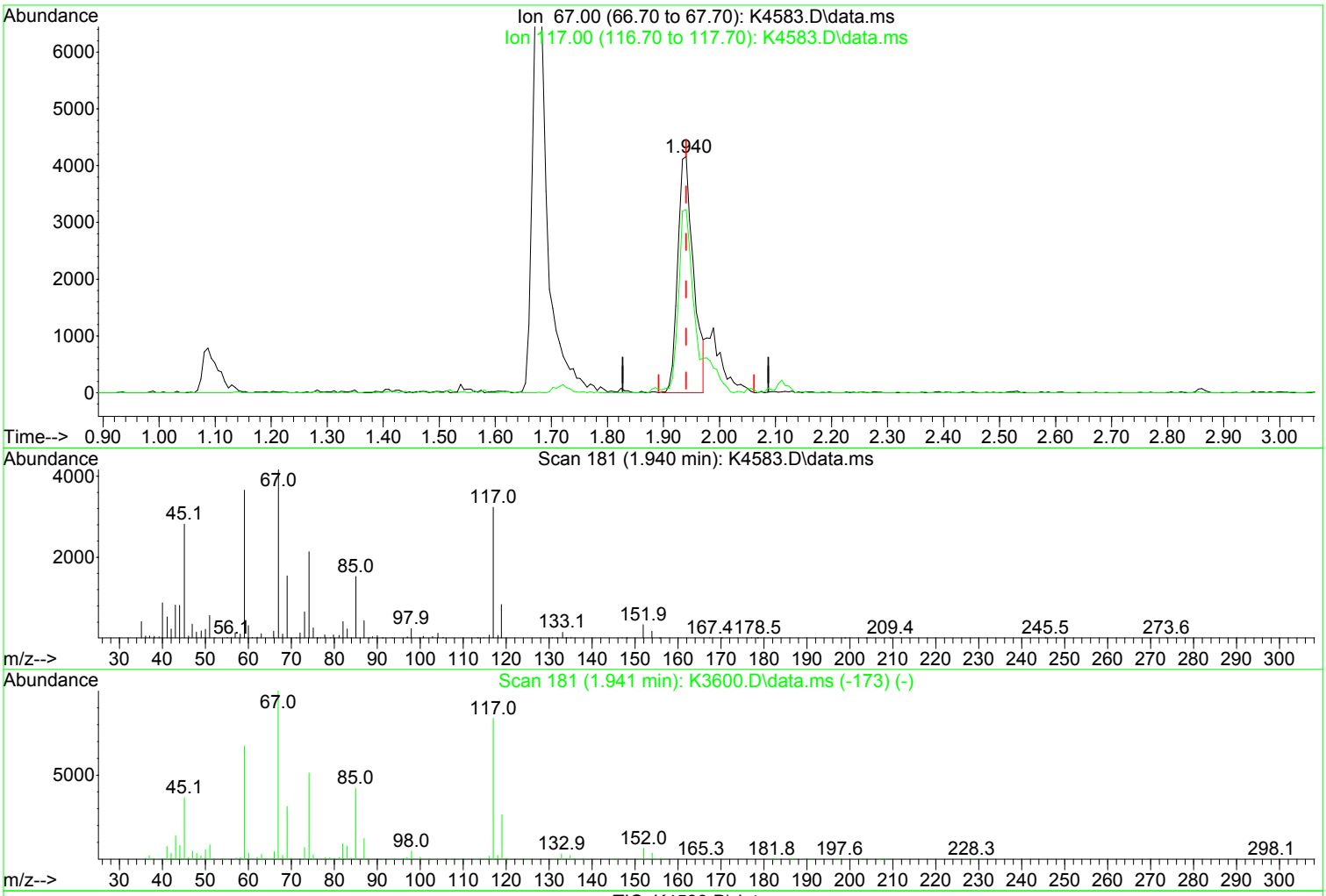
Quant Time: Jul 31 19:25:03 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 19:25:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



TIC: K4583.D\data.ms

(11) Freon 123a

1.940min (-0.000) 2.12 ug/L m

response 8134

Ion	Exp%	Act%
67.00	100.00	100.00
117.00	85.30	77.61
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

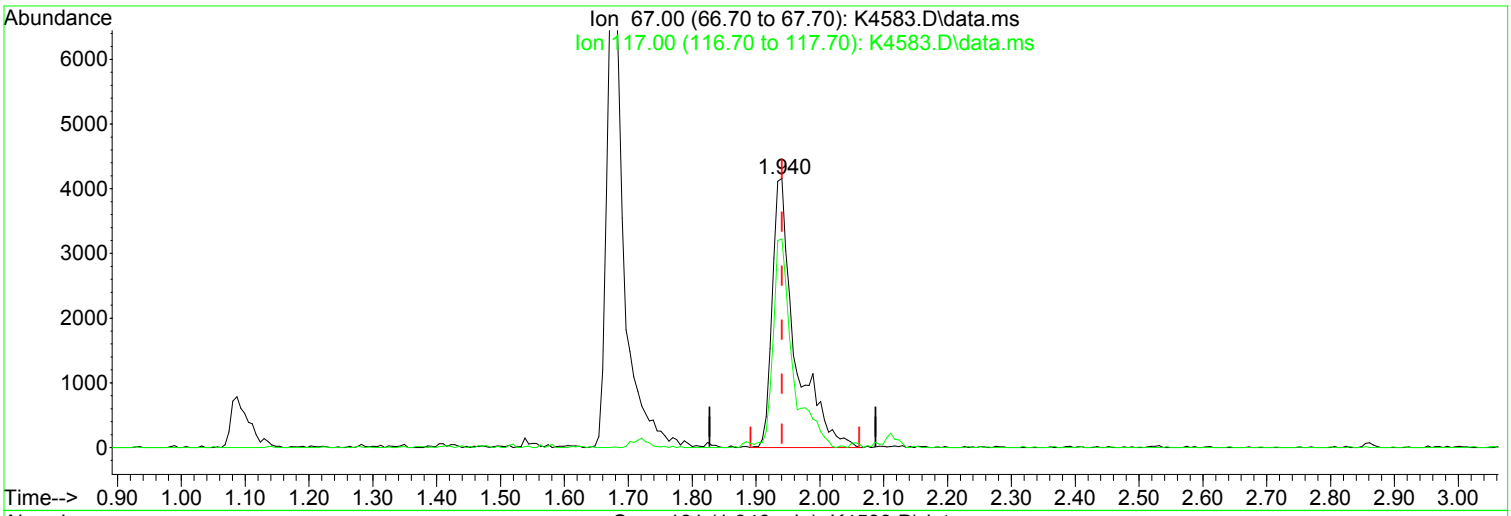
Poor integration.

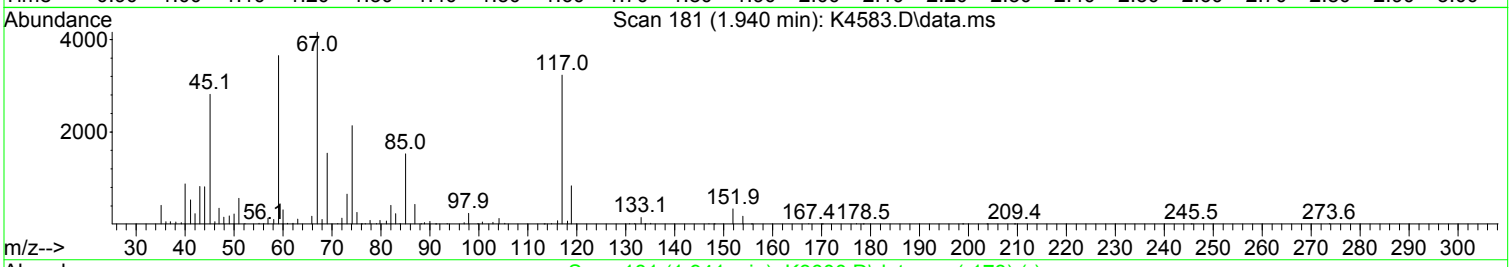
08/01/24

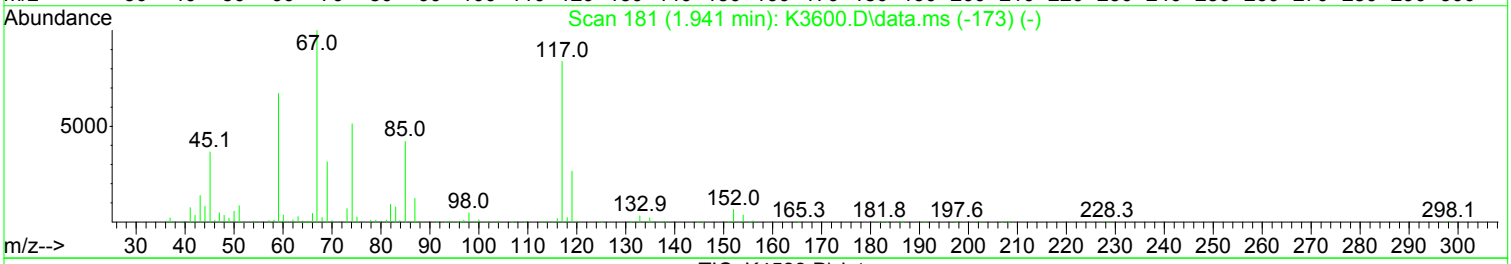
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 19:25:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4583.D\data.ms

(11) Freon 123a

1.940min (-0.000) 2.70 ug/L

response 10347

Ion	Exp%	Act%
67.00	100.00	100.00
117.00	85.30	77.61
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

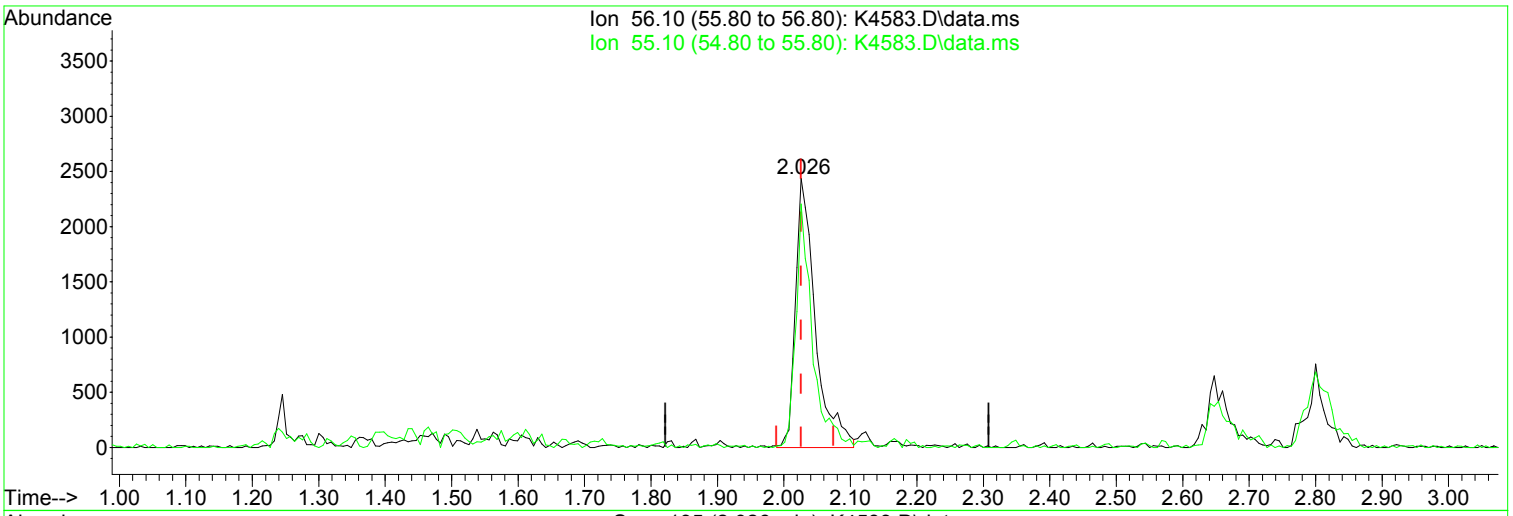
Before

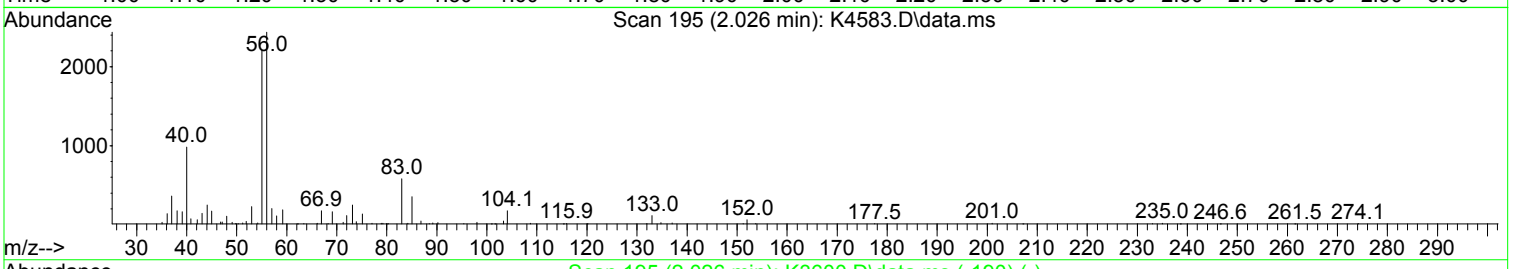
08/01/24

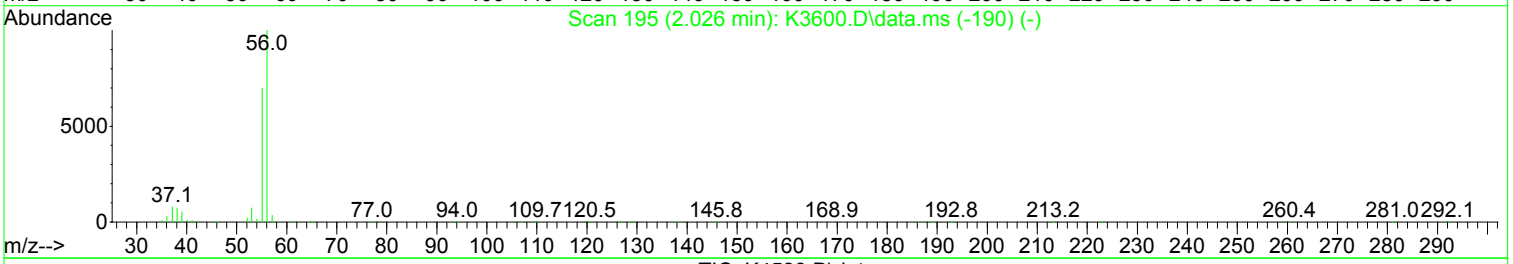
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 19:25:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4583.D\data.ms

(13) Acrolein

2.026min (-0.000) 8.95 ug/L m

response 5055

Ion	Exp%	Act%
56.10	100.00	100.00
55.10	70.10	90.48#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

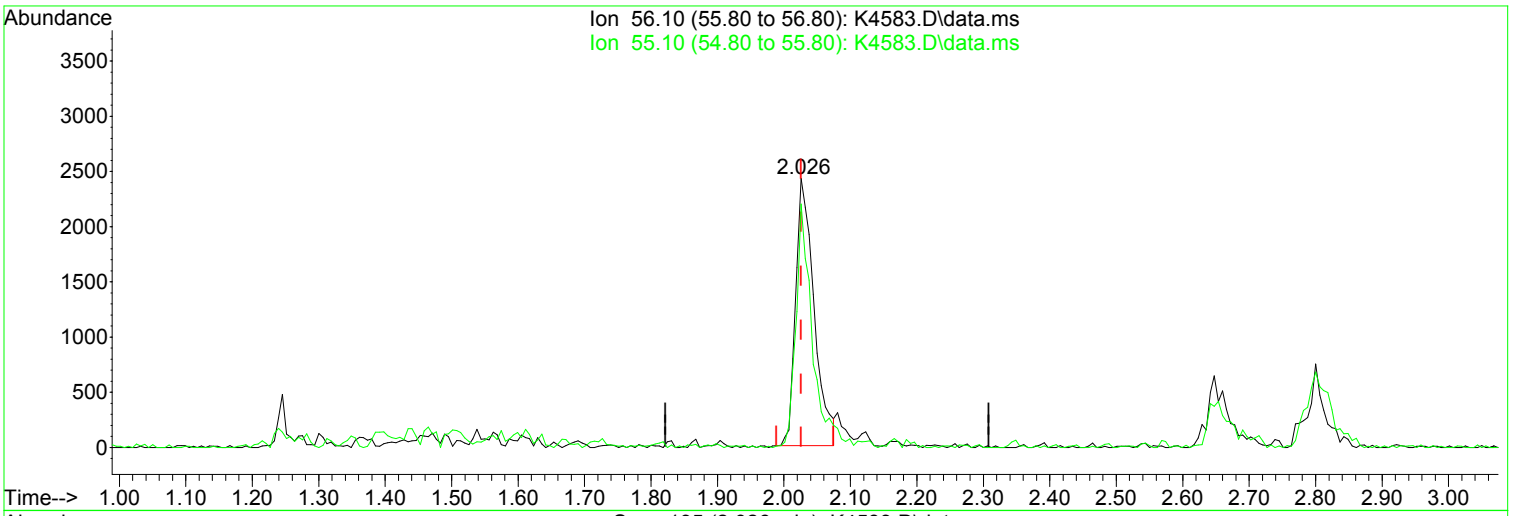
Poor integration.

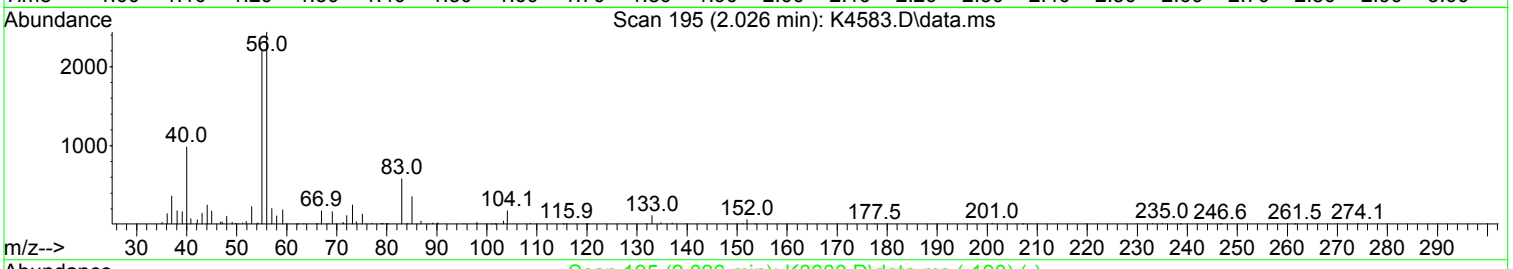
08/01/24

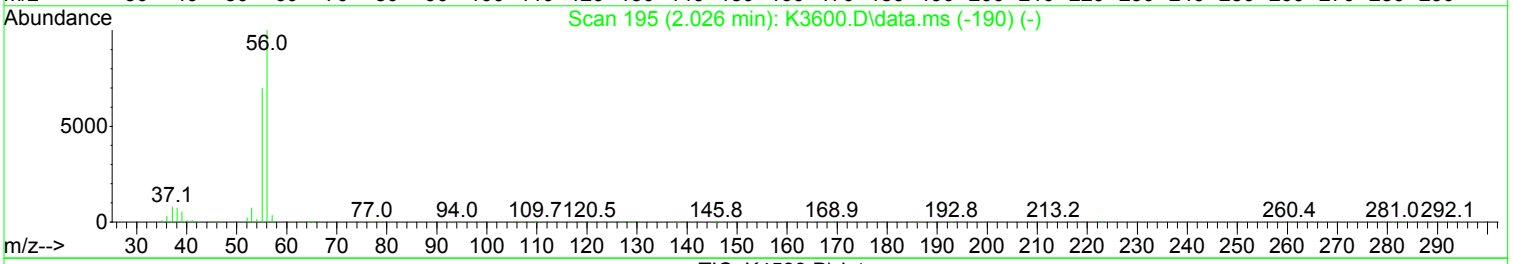
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 19:25:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4583.D\data.ms

(13) Acrolein

2.026min (-0.000) 8.24 ug/L

response 4654

Ion	Exp%	Act%
56.10	100.00	100.00
55.10	70.10	90.48#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

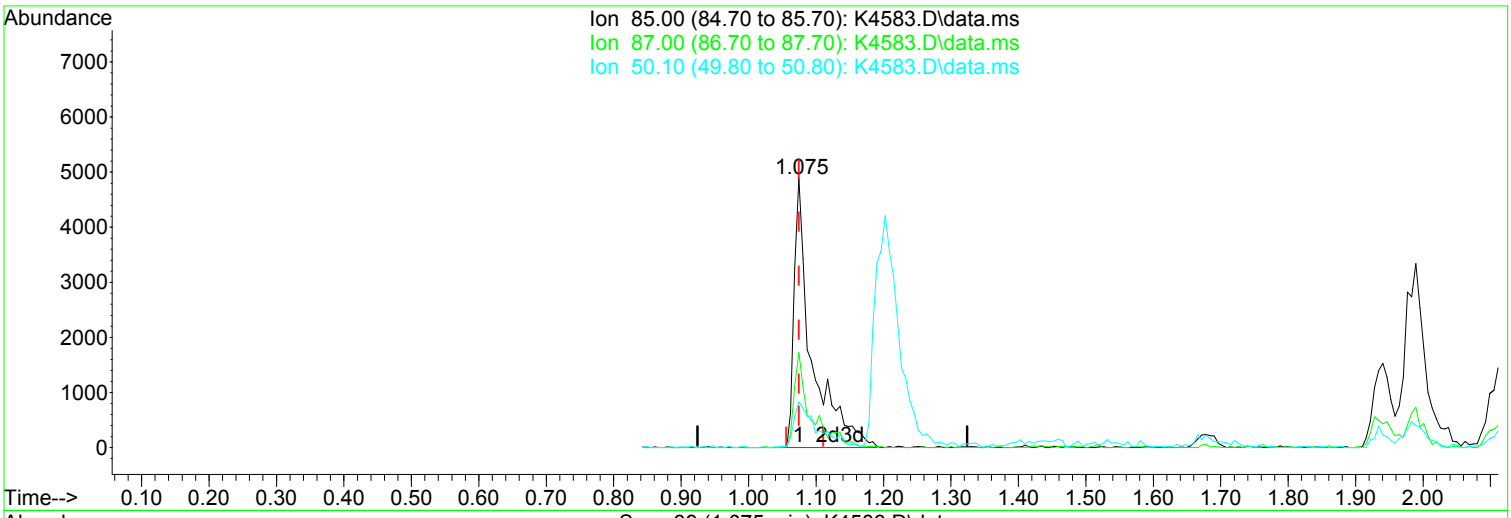
Before

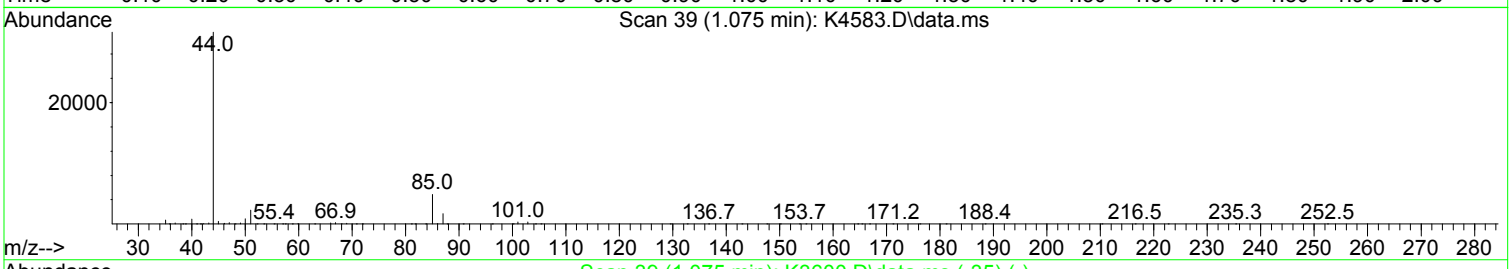
08/01/24

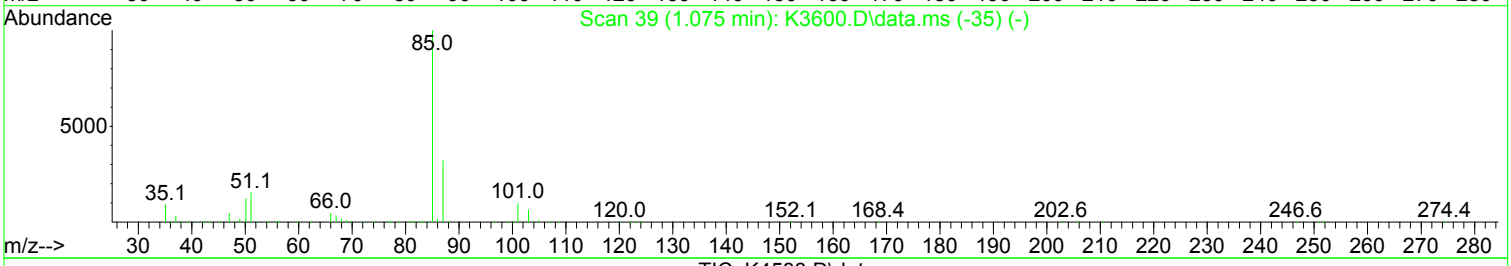
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 19:25:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4583.D\data.ms

(3) Dichlorodifluoromethane (P)

1.075min (-0.000) 2.12 ug/L m

response 8840

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	32.00	35.31
50.10	12.20	17.00
0.00	0.00	0.00

Manual Integration:

After

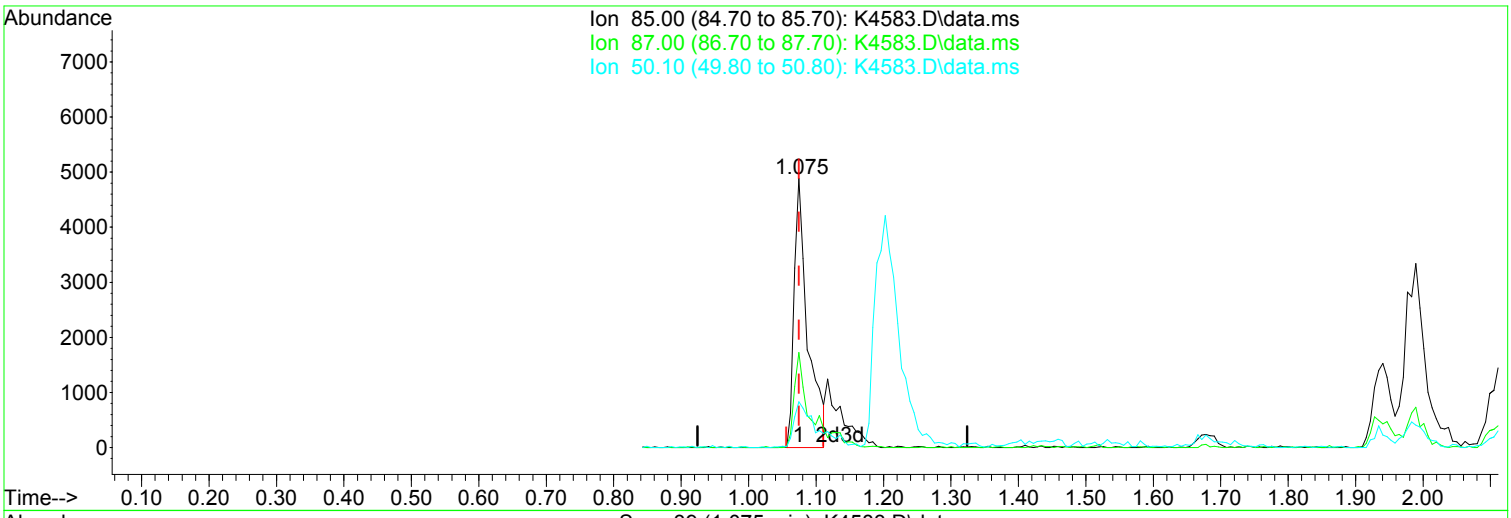
Split Peak.

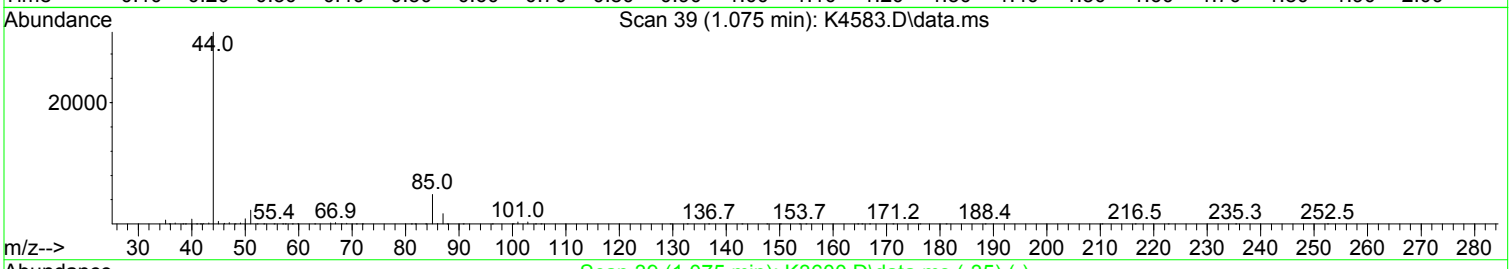
08/01/24

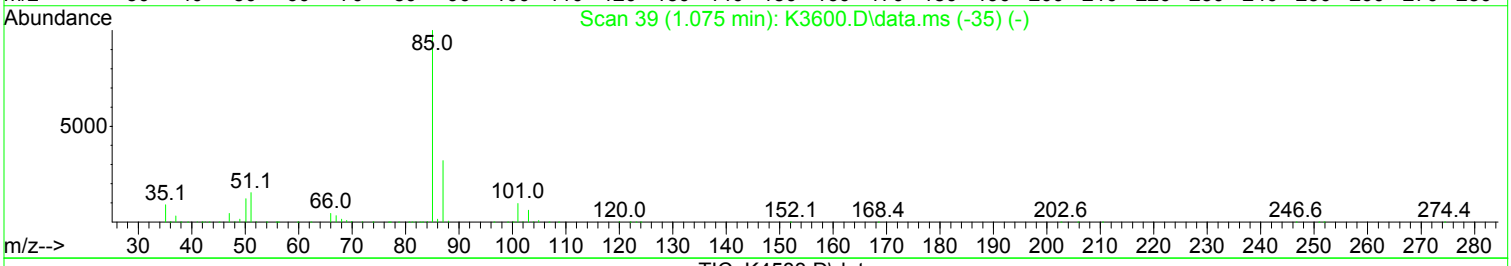
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 19:25:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4583.D\data.ms

(3) Dichlorodifluoromethane (P)

1.075min (-0.000) 1.63 ug/L

response 6816

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	32.00	35.31
50.10	12.20	17.00
0.00	0.00	0.00

Manual Integration:

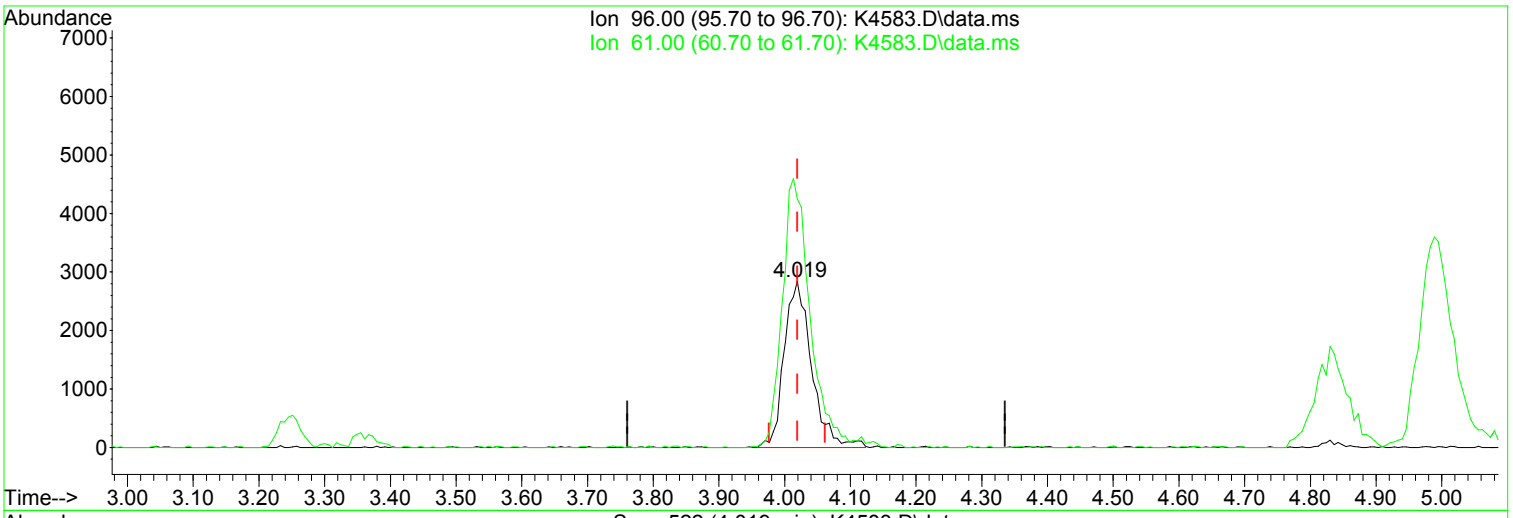
Before

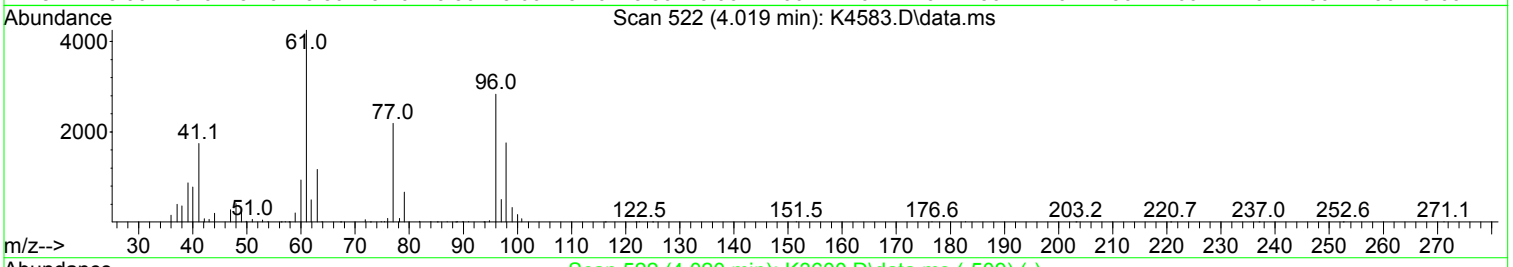
08/01/24

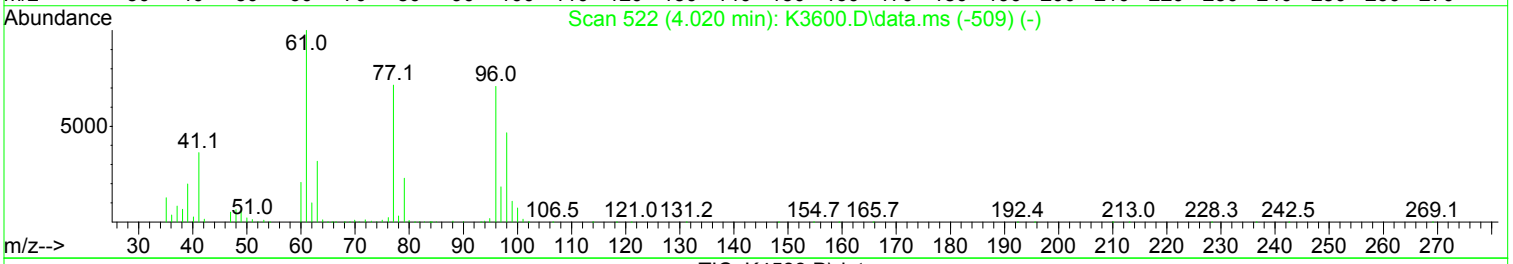
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 19:25:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4583.D\data.ms

(33) cis-1,2-Dichloroethene (P)

4.019min (-0.000) 2.17 ug/L m

response 8258

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	141.20	149.75
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

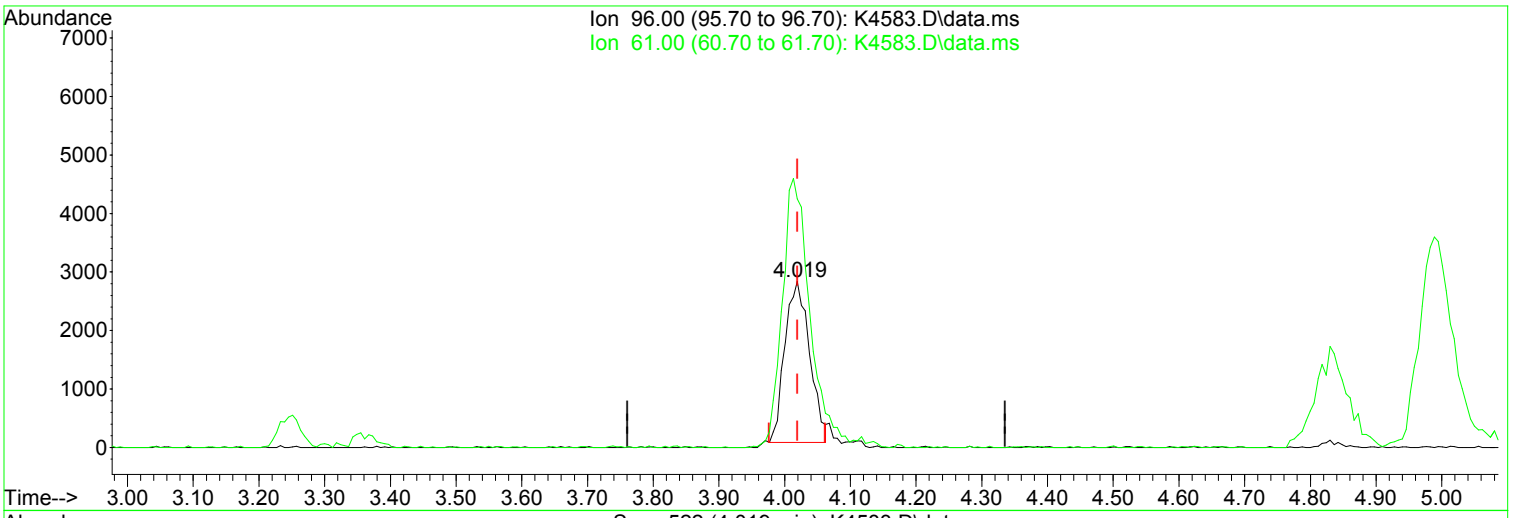
Poor integration.

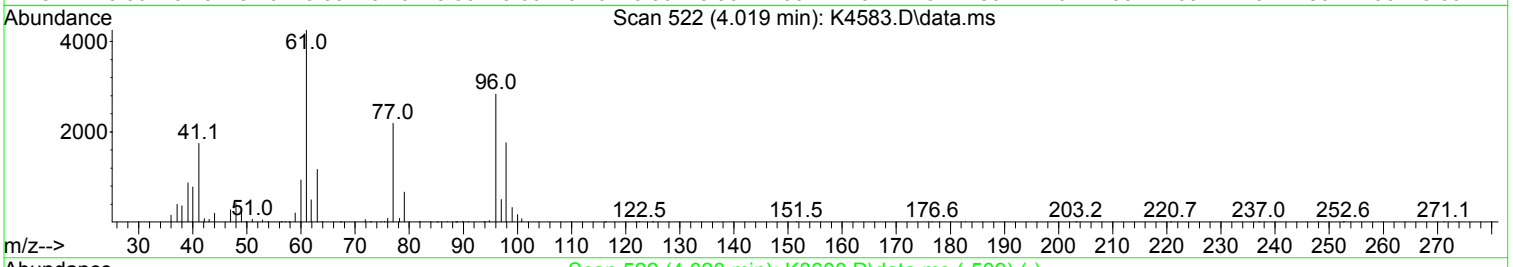
08/01/24

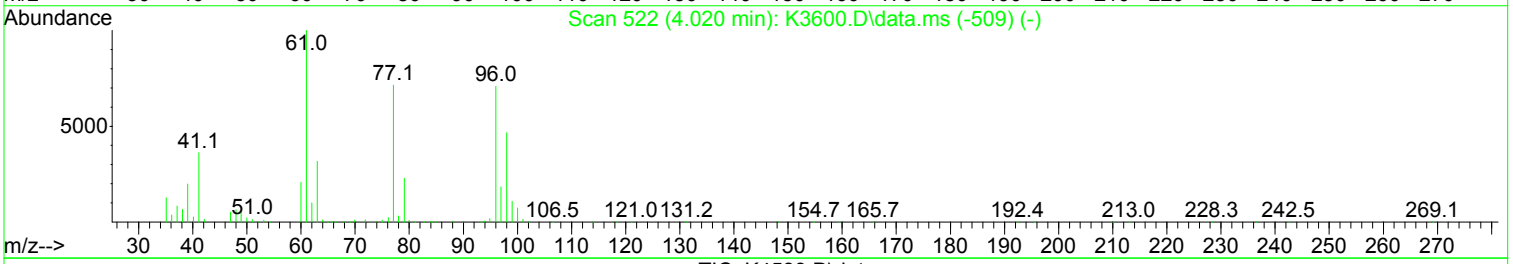
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 19:25:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4583.D\data.ms

(33) cis-1,2-Dichloroethene (P)

4.019min (-0.000) 1.90 ug/L

response 7226

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	141.20	149.75
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

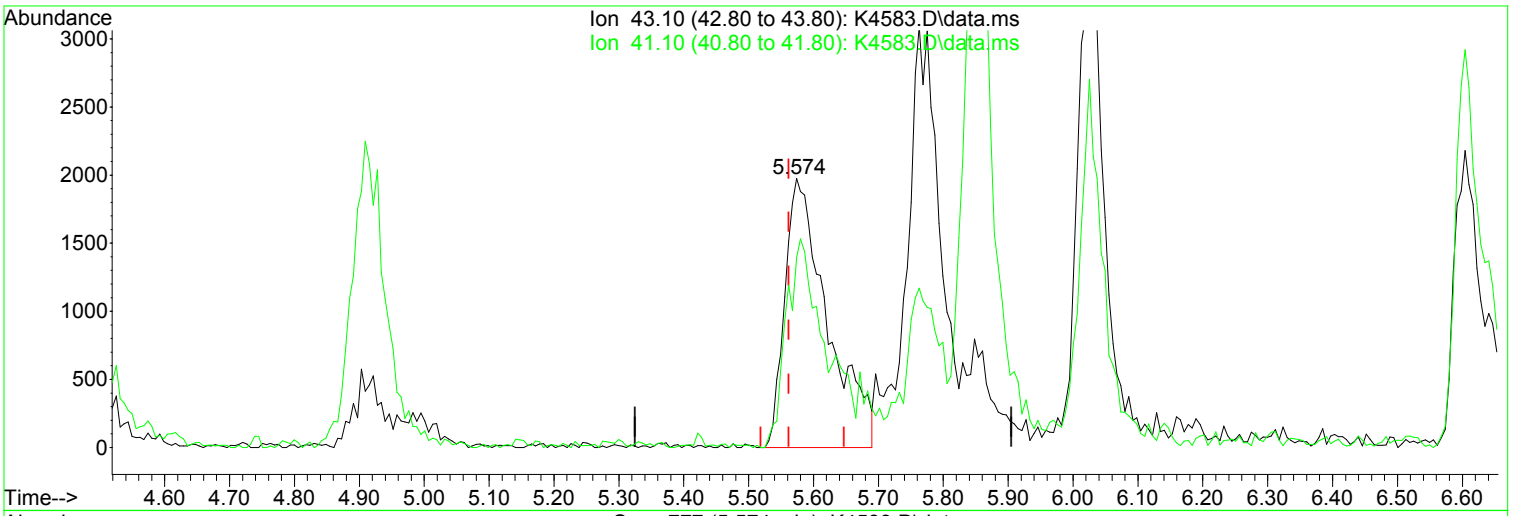
Before

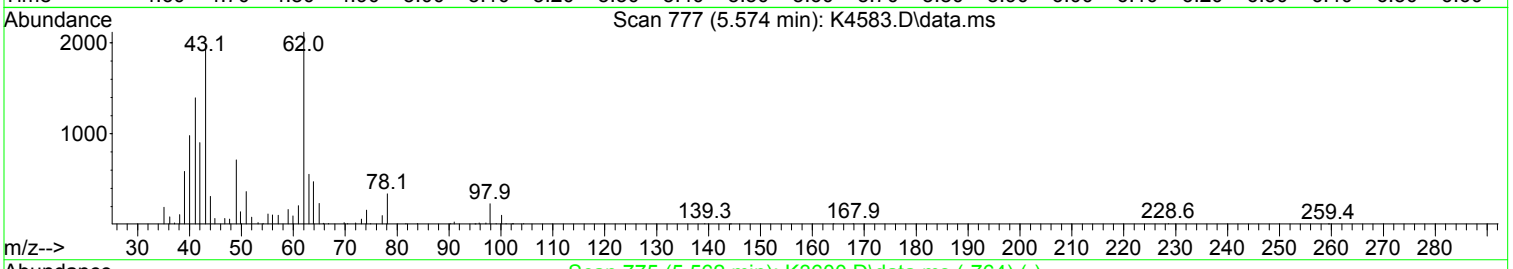
08/01/24

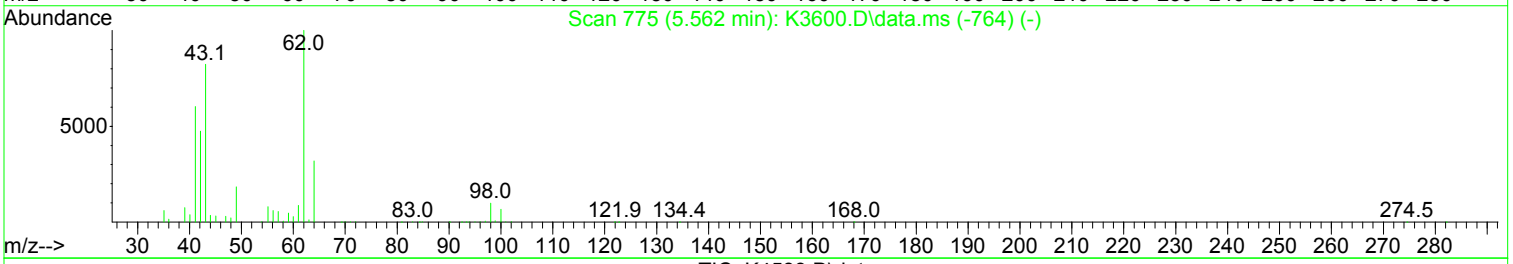
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 19:25:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4583.D\data.ms

(50) Iso-Butyl Alcohol

5.574min (+ 0.012) 28.62 ug/L m

response 8985

Ion	Exp%	Act%
43.10	100.00	100.00
41.10	73.40	70.58
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

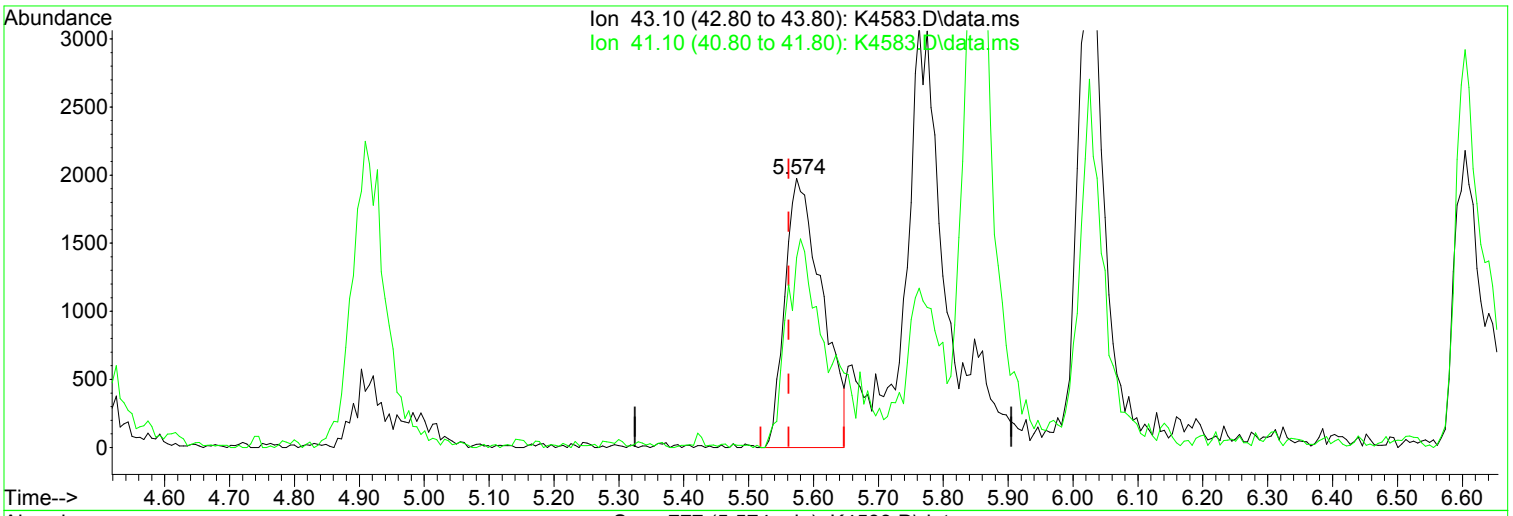
Poor integration.

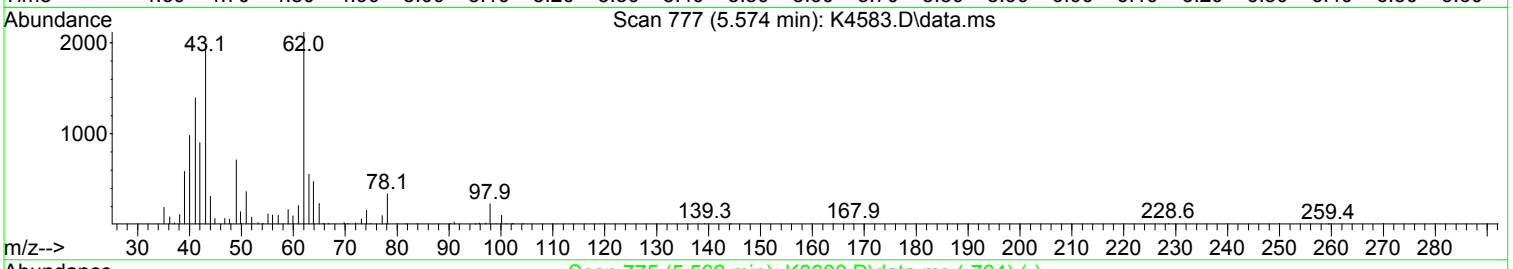
08/01/24

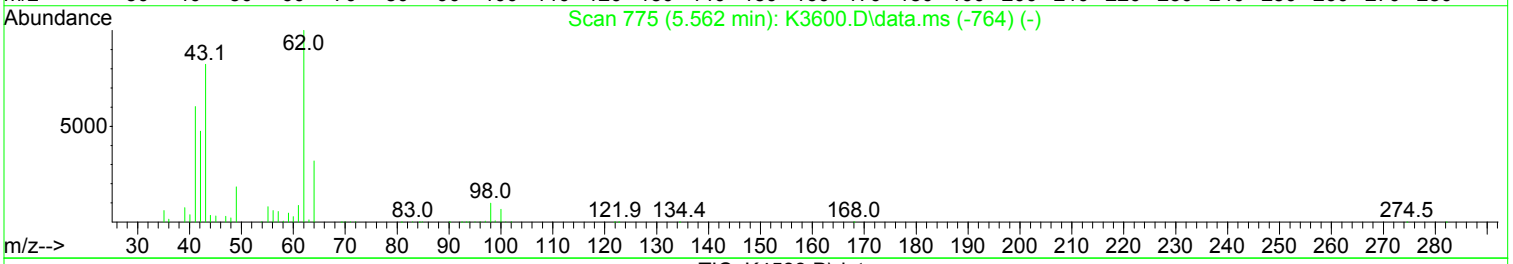
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 19:25:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4583.D\data.ms

(50) Iso-Butyl Alcohol

5.574min (+ 0.012) 24.94 ug/L

response 7831

Ion	Exp%	Act%
43.10	100.00	100.00
41.10	73.40	70.58
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

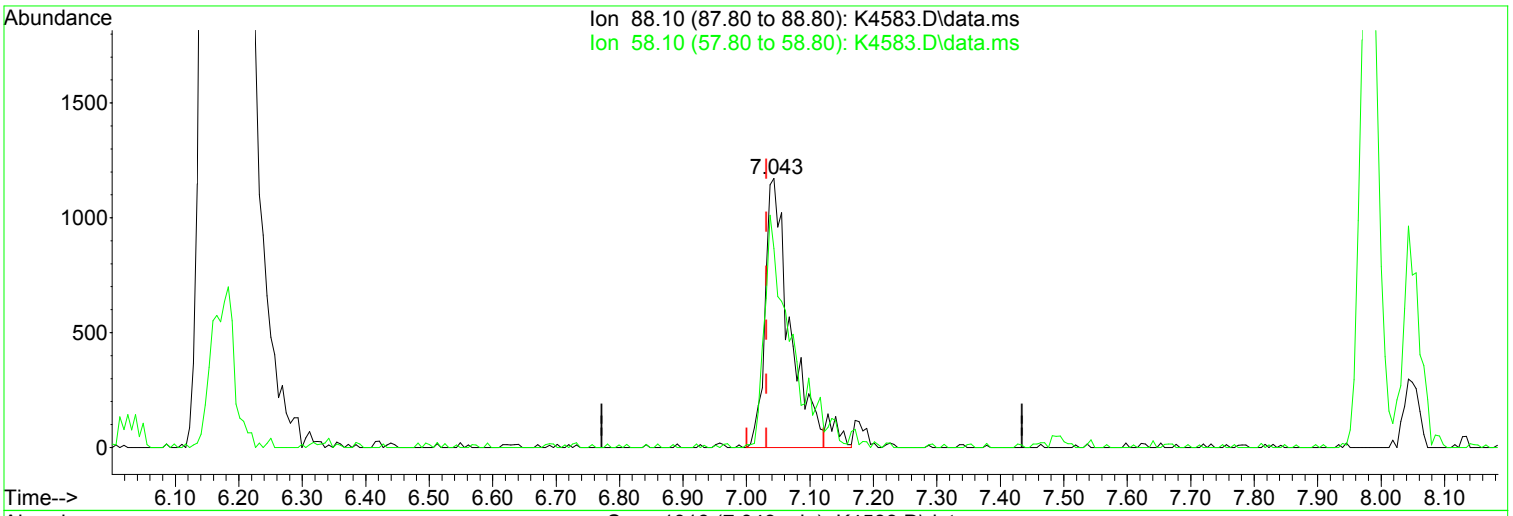
Before

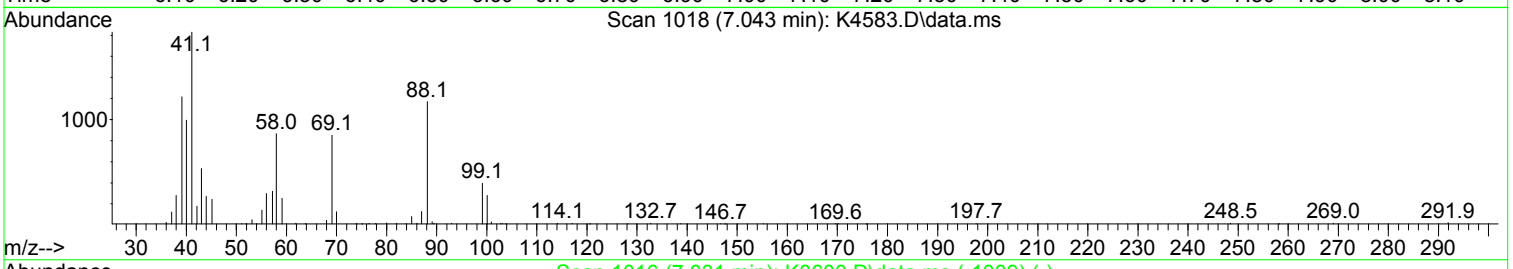
08/01/24

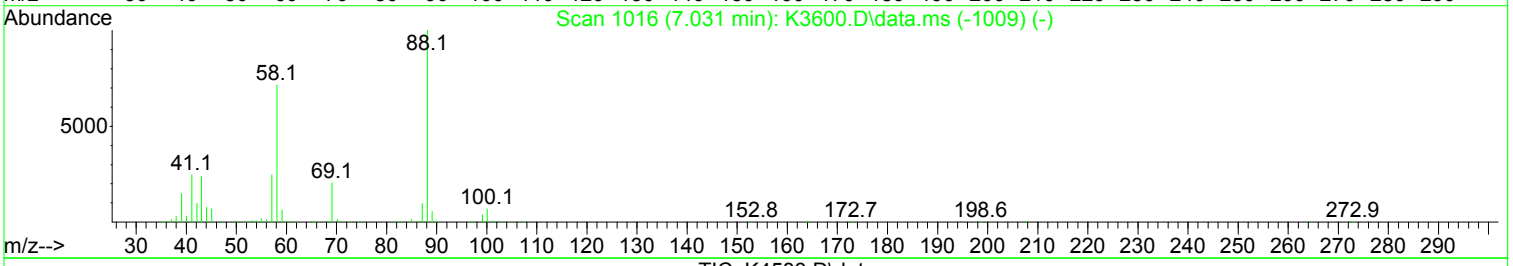
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 19:25:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4583.D\data.ms

(57) 1,4-Dioxane

7.043min (+ 0.012) 40.00 ug/L m

response 3349

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	71.50	74.04
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

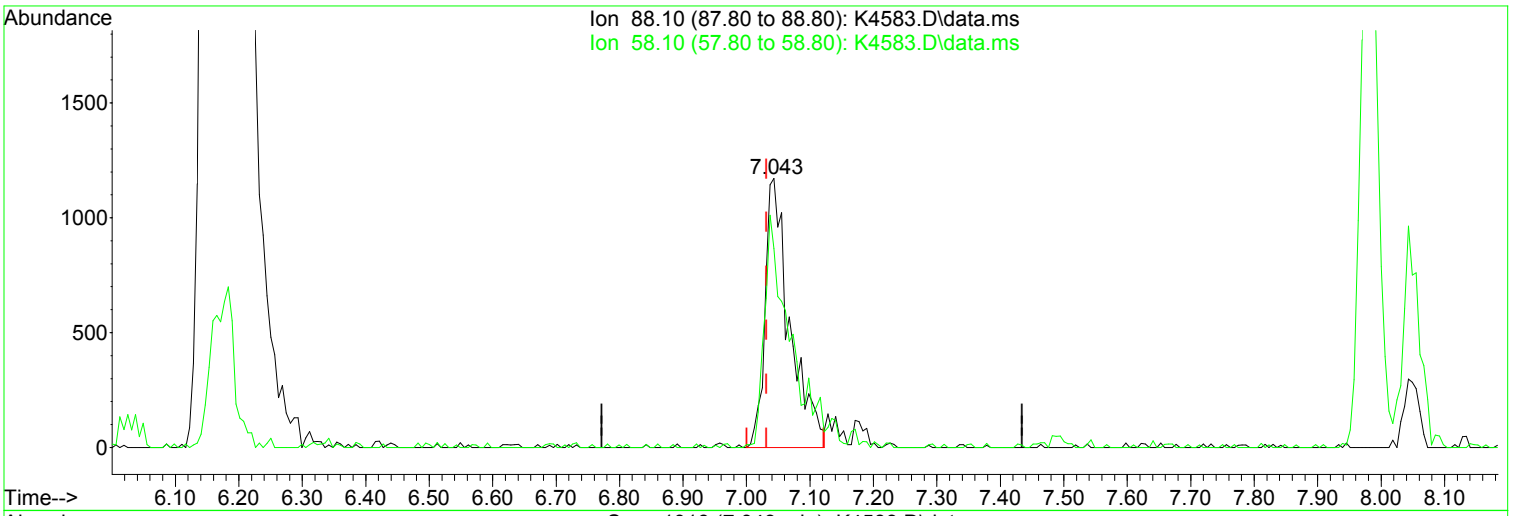
Poor integration.

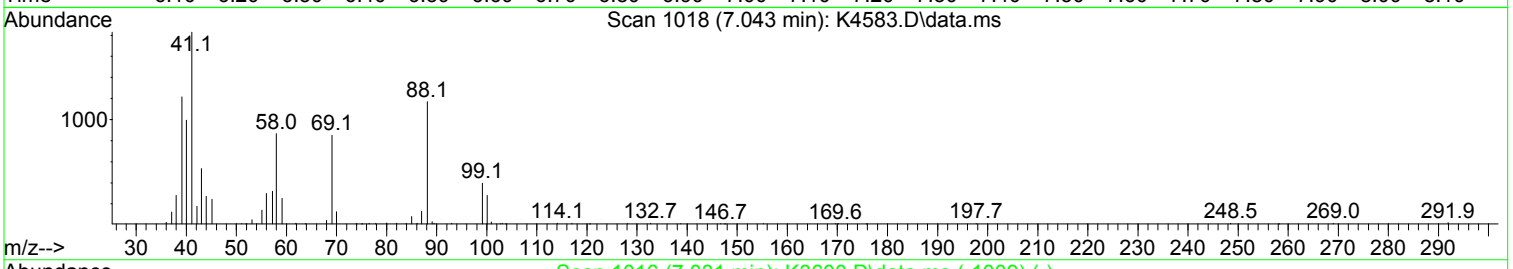
08/01/24

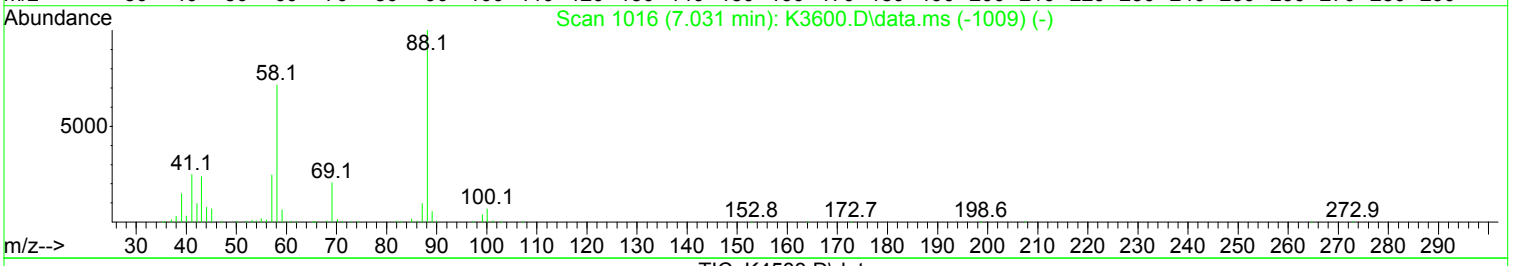
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 19:25:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4583.D\data.ms

(57) 1,4-Dioxane

7.043min (+ 0.012) 37.83 ug/L

response 3167

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	71.50	74.04
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

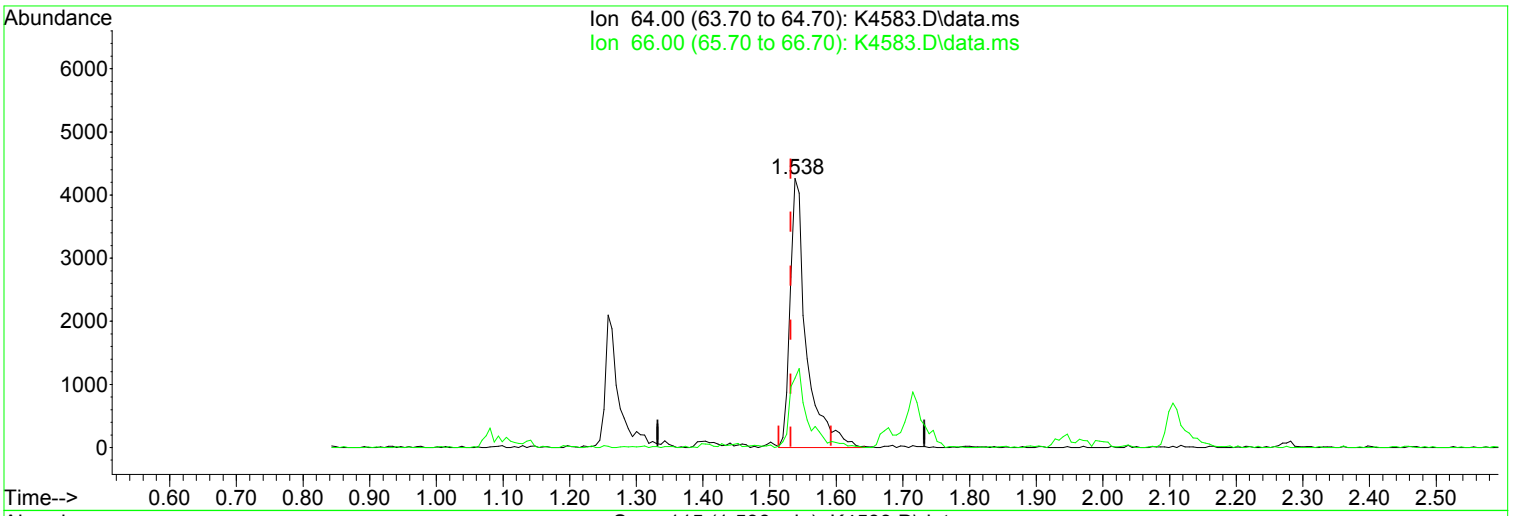
Before

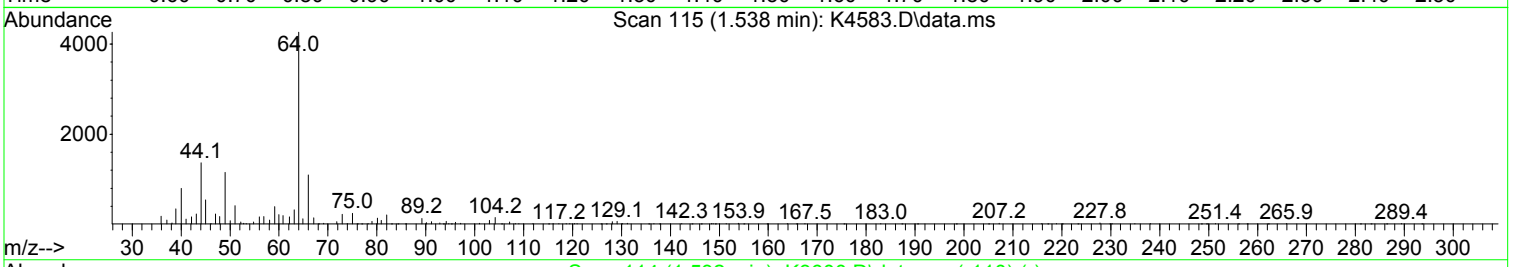
08/01/24

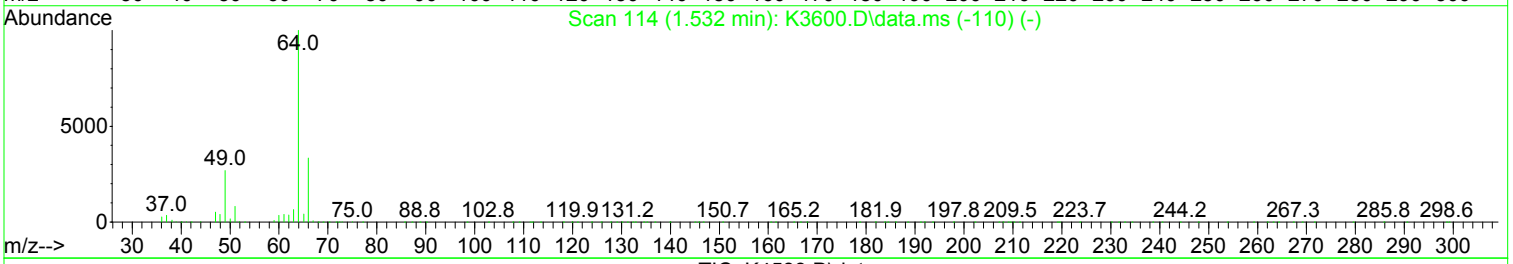
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 19:25:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4583.D\data.ms

(7) Chloroethane (P)

1.538min (+ 0.006) 2.35 ug/L m

response 7196

Ion	Exp%	Act%
64.00	100.00	100.00
66.00	33.50	25.77
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

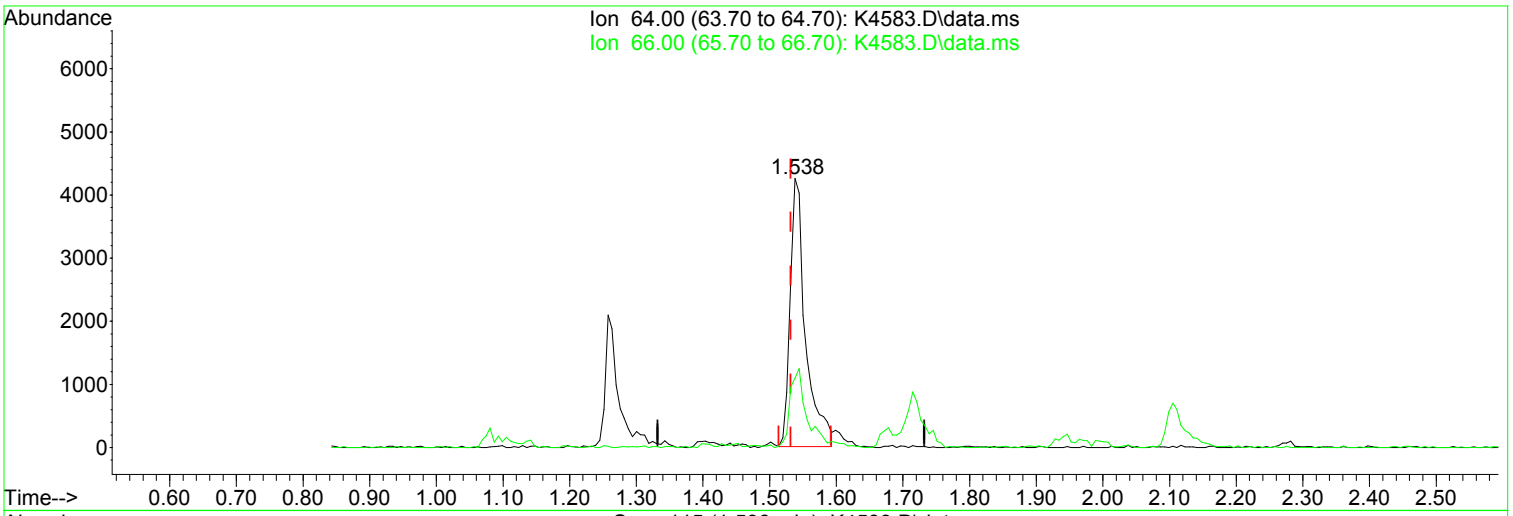
Poor integration.

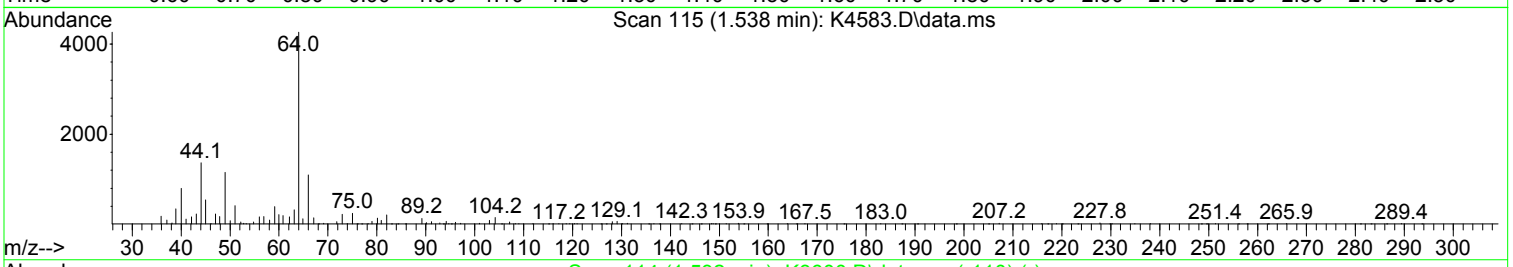
08/01/24

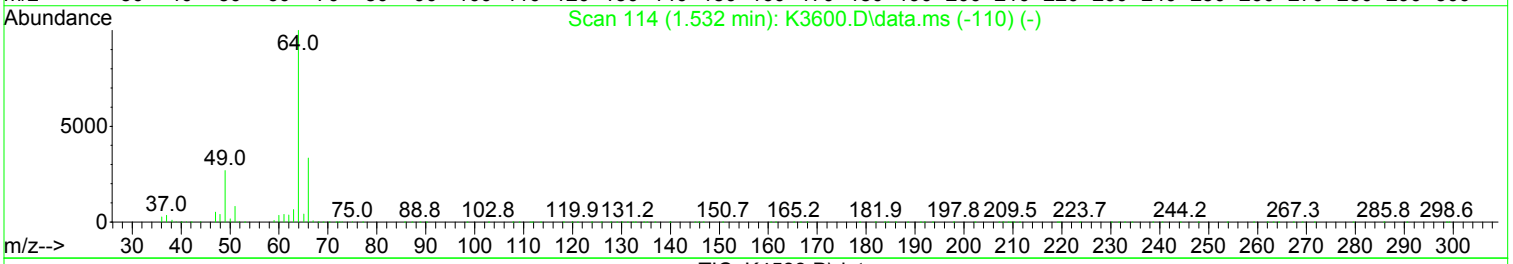
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 19:25:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4583.D\data.ms

(7) Chloroethane (P)

1.538min (+ 0.006) 2.21 ug/L

response 6792

Ion	Exp%	Act%
64.00	100.00	100.00
66.00	33.50	25.77
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

08/01/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 19:25:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.995	168	357535	50.00	ug/L		0.00
42) 1,4-Difluorobenzene	6.177	114	611454	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.573	117	528928	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	225648	50.00	ug/L		0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.830	113	39312	10.31	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 20.62%#				
47) surr1,1,2-dichloroetha...	5.415	65	55804	10.70	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 21.40%#				
64) SURR3,Toluene-d8	8.049	98	147593	10.54	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 21.08%#				
69) SURR2,BFB	10.664	95	55208	10.03	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 20.06%#				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.087	51	9861	2.027	ug/L		99
3) Dichlorodifluoromethane	1.075	85	8840m	2.117	ug/L		
4) Chloromethane	1.203	50	10116	2.156	ug/L		95
5) Vinyl Chloride	1.258	62	9431	1.949	ug/L		100
6) Bromomethane	1.471	94	5107	2.647	ug/L		97
7) Chloroethane	1.538	64	7196m	2.346	ug/L		
8) Freon 21	1.678	67	13994	2.144	ug/L		97
9) Trichlorofluoromethane	1.715	101	11210	2.083	ug/L		99
10) Diethyl Ether	1.928	59	8856	2.286	ug/L	#	79
11) Freon 123a	1.940	67	8134m	2.119	ug/L		
12) Freon 123	1.983	83	8469	1.933	ug/L		88
13) Acrolein	2.026	56	5055m	8.950	ug/L		
14) 1,1-Diclethene	2.105	96	6464	2.133	ug/L	#	69
15) Freon 113	2.111	101	6769	2.172	ug/L		98
16) Acetone	2.154	43	7912	2.765	ug/L		85
17) 2-Propanol	2.282	45	21375	37.874	ug/L		98
18) Iodomethane	2.227	142	8676	1.836	ug/L		99
19) Carbon Disulfide	2.276	76	14145	1.896	ug/L		99
20) Acetonitrile/Allyl Chl...	2.404	41	18882	12.539	ug/L		81
21) Methyl Acetate	2.434	43	10279	2.058	ug/L		84
22) Methylene Chloride	2.519	84	9837	2.195	ug/L	#	70
23) TBA	2.654	59	39611	37.867	ug/L		86
24) Acrylonitrile	2.763	53	27249	10.431	ug/L		100
25) Methyl-t-Butyl Ether	2.800	73	24367	2.123	ug/L		89
26) trans-1,2-Dichloroethene	2.788	96	6812	2.049	ug/L	#	61
27) 1,1-Diclethane	3.245	63	15109	2.204	ug/L		97
28) Vinyl Acetate	3.330	86	981	1.464	ug/L	#	49
29) DIPE	3.361	45	26066	2.154	ug/L		85
30) 2-Chloro-1,3-Butadiene	3.355	53	14222	2.050	ug/L	#	72
31) ETBE	3.855	59	27098	2.114	ug/L		89
32) 2,2-Dichloropropane	4.001	77	8081	1.874	ug/L		86
33) cis-1,2-Dichloroethene	4.019	96	8258m	2.167	ug/L		
34) 2-Butanone	4.086	43	7136	2.090	ug/L		76
35) Propionitrile	4.166	54	11382	9.756	ug/L		98
36) Bromochloromethane	4.385	130	5642	2.234	ug/L	#	82
37) Methacrylonitrile	4.397	67	4620	2.124	ug/L		90
38) Tetrahydrofuran	4.495	42	4812	2.209	ug/L	#	65
39) Chloroform	4.556	83	13354	2.095	ug/L		94
40) 1,1,1-Trichloroethane	4.842	97	11552	2.258	ug/L		94

1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 19:25:08 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) TAME	5.769	73	20765	2.100	ug/L		92
43) Cyclohexane	4.909	41	7957	2.210	ug/L		91
45) Carbontetrachloride	5.129	117	10868	2.235	ug/L		85
46) 1,1-Dichloropropene	5.153	75	9166	2.041	ug/L		88
48) Benzene	5.501	78	27539	2.117	ug/L		78
49) 1,2-Dichloroethane	5.549	62	14012	2.149	ug/L		94
50) Iso-Butyl Alcohol	5.574	43	8985m	28.618	ug/L		
51) n-Heptane	6.025	43	10210	2.084	ug/L	#	69
52) 1-Butanol	6.604	56	14069	68.373	ug/L		87
53) Trichloroethene	6.513	130	7764	2.002	ug/L		91
54) Methylcyclohexane	6.750	55	10882	1.989	ug/L	#	76
55) 1,2-Diclpropane	6.805	63	8353	2.110	ug/L		81
56) Dibromomethane	6.958	93	5246	2.113	ug/L		88
57) 1,4-Dioxane	7.043	88	3349m	40.001	ug/L		
58) Methyl Methacrylate	7.055	69	6384	1.930	ug/L	#	62
59) Bromodichloromethane	7.195	83	9092	1.949	ug/L		95
60) 2-Nitropropane	7.500	41	5697	3.418	ug/L		100
61) 2-Chloroethylvinyl Ether	7.622	63	2675	2.092	ug/L		90
62) cis-1,3-Dichloropropene	7.756	75	9989	1.881	ug/L		92
63) 4-Methyl-2-pentanone	7.976	43	12236	1.973	ug/L		82
65) Toluene	8.122	91	30931	2.083	ug/L		97
66) trans-1,3-Dichloropropene	8.415	75	9308	1.825	ug/L		97
67) Ethyl Methacrylate	8.561	69	10864	1.901	ug/L	#	52
68) 1,1,2-Trichloroethane	8.598	97	7043	1.969	ug/L		86
71) Tetrachloroethene	8.726	164	5744	2.202	ug/L	#	81
72) 2-Hexanone	8.915	43	9297	1.994	ug/L		84
73) 1,3-Dichloropropane	8.774	76	12601	2.208	ug/L		82
74) Dibromochloromethane	9.000	129	6999	1.900	ug/L		96
75) N-Butyl Acetate	9.073	43	17990	2.012	ug/L		92
76) 1,2-Dibromoethane	9.091	107	7840	2.076	ug/L		86
77) 3-Chlorobenzotrifluoride	9.634	180	9436	2.196	ug/L		94
78) Chlorobenzene	9.597	112	21229	2.142	ug/L		95
79) 4-Chlorobenzotrifluoride	9.689	180	8804	2.211	ug/L		94
80) 1,1,1,2-Tetrachloroethane	9.695	131	7082	1.983	ug/L		97
81) Ethylbenzene	9.726	106	10528	2.113	ug/L	#	83
82) (m+p)Xylene	9.841	106	26517	4.323	ug/L		98
83) o-Xylene	10.201	106	12569	2.057	ug/L		89
84) Styrene	10.213	104	21293	2.072	ug/L		96
85) Bromoform	10.366	173	3455	1.658	ug/L		84
86) 2-Chlorobenzotrifluoride	10.457	180	9483	2.178	ug/L		98
87) Isopropylbenzene	10.542	105	33337	2.128	ug/L		100
88) Cyclohexanone	10.610	55	46625	40.290	ug/L		93
89) trans-1,4-Dichloro-2-B...	10.859	53	4007	1.813	ug/L	#	74
91) 1,1,2,2-Tetrachloroethane	10.811	83	10263	2.173	ug/L		94
92) Bromobenzene	10.780	156	8541	2.373	ug/L	#	84
93) 1,2,3-Trichloropropane	10.835	110	4044	2.361	ug/L	#	82
94) n-Propylbenzene	10.896	91	39060	2.389	ug/L		97
95) 2-Chlorotoluene	10.957	91	25553	2.485	ug/L		93
96) 3-Chlorotoluene	11.012	91	24911	2.394	ug/L		97
97) 4-Chlorotoluene	11.055	91	27760	2.347	ug/L		97
98) 1,3,5-Trimethylbenzene	11.055	105	27771	2.243	ug/L		98
99) tert-Butylbenzene	11.323	119	24090	2.279	ug/L		97
100) 1,2,4-Trimethylbenzene	11.365	105	28369	2.260	ug/L		98
101) 3,4-Dichlorobenzotrifl...	11.433	214	6121	2.245	ug/L		92
102) sec-Butylbenzene	11.506	105	35086	2.371	ug/L		93
103) p-Isopropyltoluene	11.634	119	29578	2.273	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 19:25:08 2024
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Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.585	146	15898	2.306	ug/L	98
105) 1,4-Dclbenz	11.664	146	16413	2.358	ug/L	89
106) 2,4-Dichlorobenzotrifl...	11.725	214	5616	2.339	ug/L	86
107) 2,5-Dichlorobenzotrifl...	11.762	214	6186	2.312	ug/L	86
108) n-Butylbenzene	11.969	91	25801	2.276	ug/L	98
109) 1,2-Dclbenz	11.963	146	16212	2.382	ug/L	96
110) 1,2-Dibromo-3-chloropr...	12.591	157	2070	1.842	ug/L	92
111) Trielution Dichlorotol...	12.707	125	43684	6.809	ug/L	93
112) 1,3,5-Trichlorobenzene	12.762	180	10235	2.301	ug/L	97
113) Coelution Dichlorotoluene	13.036	125	31408	4.551	ug/L	96
114) 1,2,4-Tcbenzene	13.243	180	9657	2.239	ug/L	92
115) Hexachlorobt	13.383	225	3578	2.254	ug/L	86
116) Naphthalen	13.432	128	34484	2.115	ug/L	99
117) 1,2,3-Tclbenzene	13.621	180	9527	2.242	ug/L	96
118) 2,4,5-Trichlorotoluene	14.213	159	7878	2.327	ug/L	87
119) 2,3,6-Trichlorotoluene	14.298	159	6592	2.105	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4583.D
Acq On : 31 Jul 2024 04:22 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260/624 ICAL
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Quant Time: Jul 31 19:25:08 2024
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Quant Title : MS#17 - 8260 WATERS 5mL Purge
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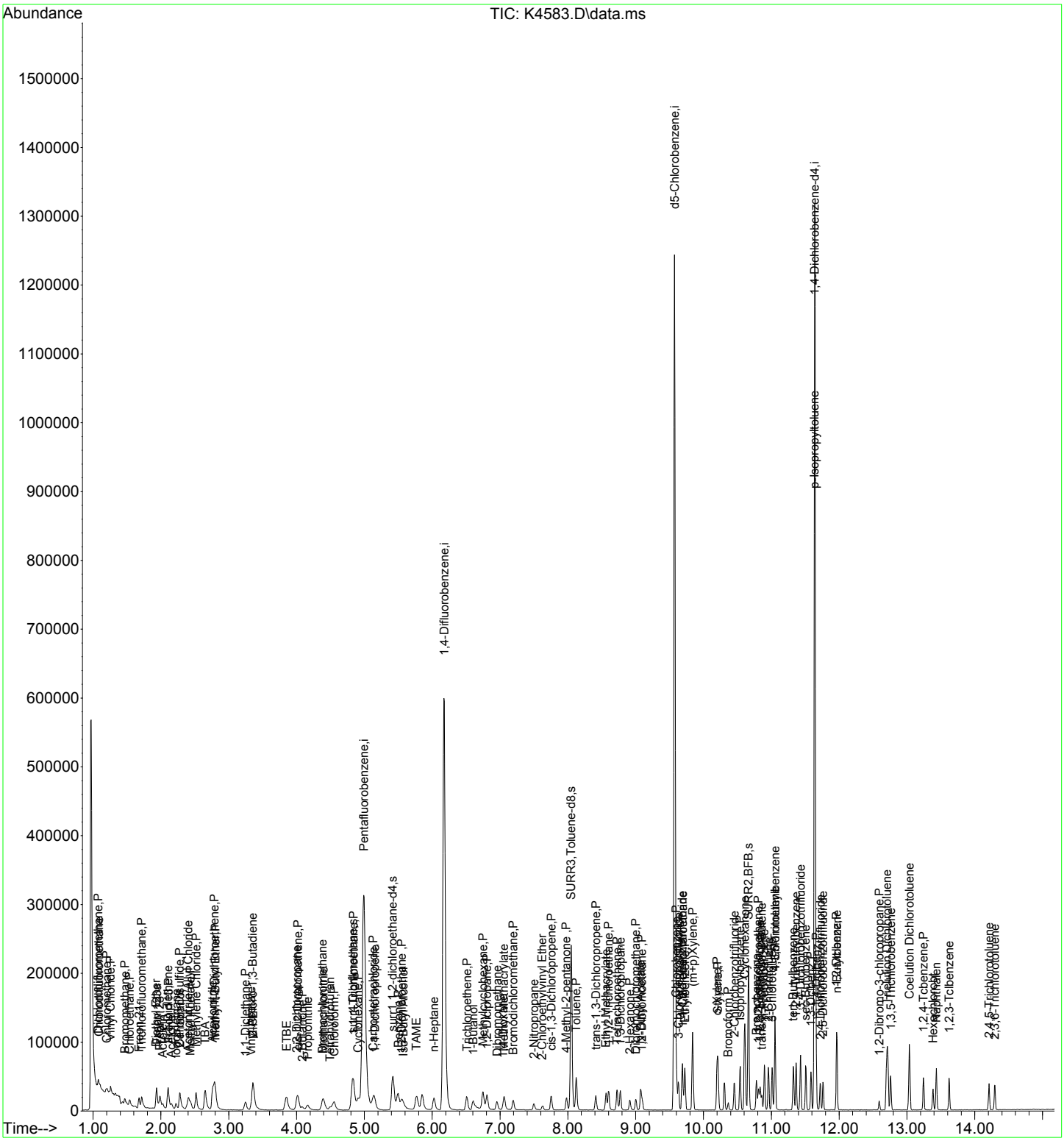
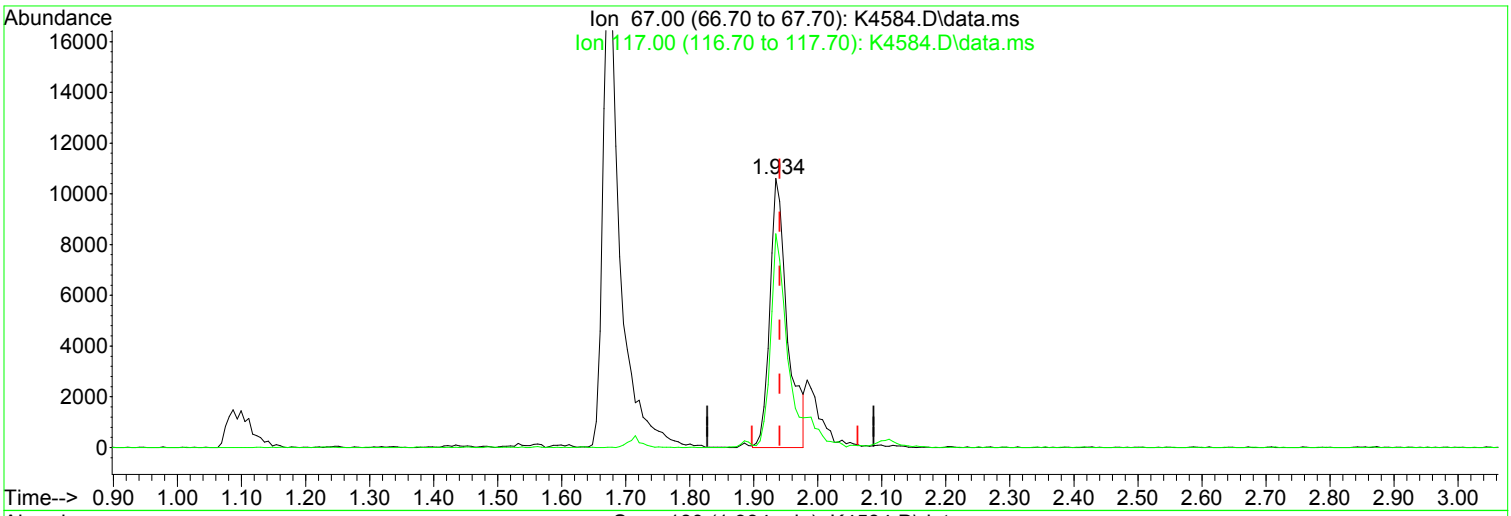
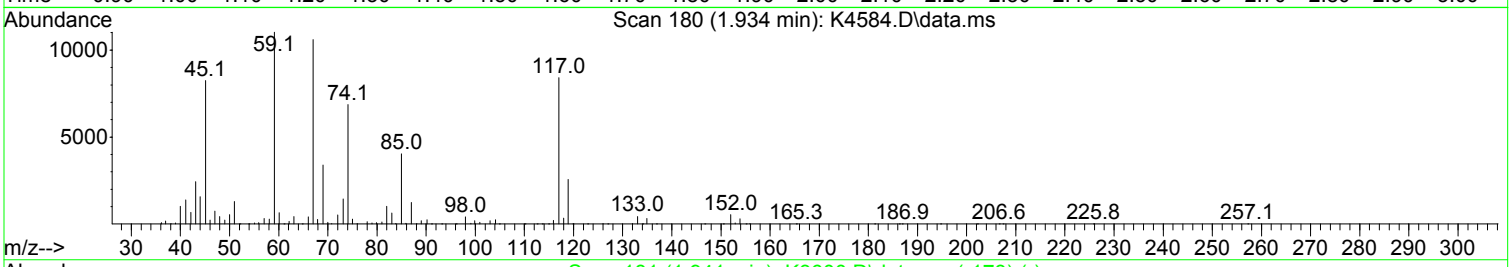


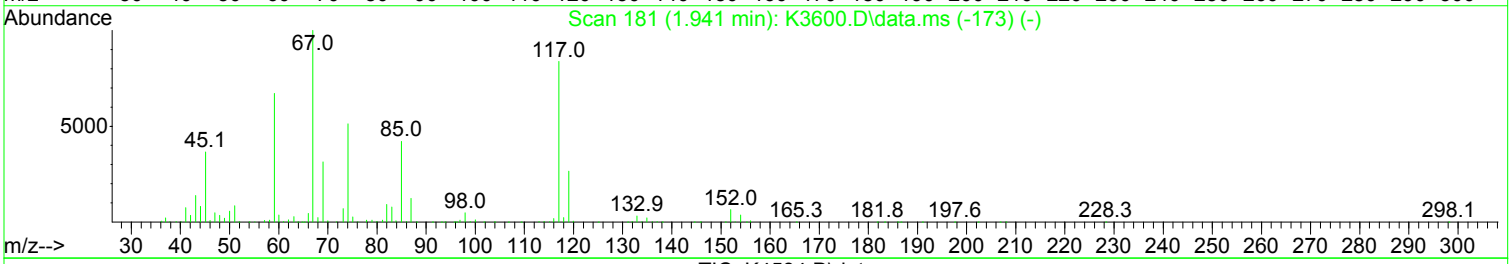
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4584.D
Acq On : 31 Jul 2024 04:46 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 31 19:25:13 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4584.D\data.ms

(11) Freon 123a

1.934min (-0.006) 5.34 ug/L m

response 20240

Ion	Exp%	Act%
67.00	100.00	100.00
117.00	85.30	79.42
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

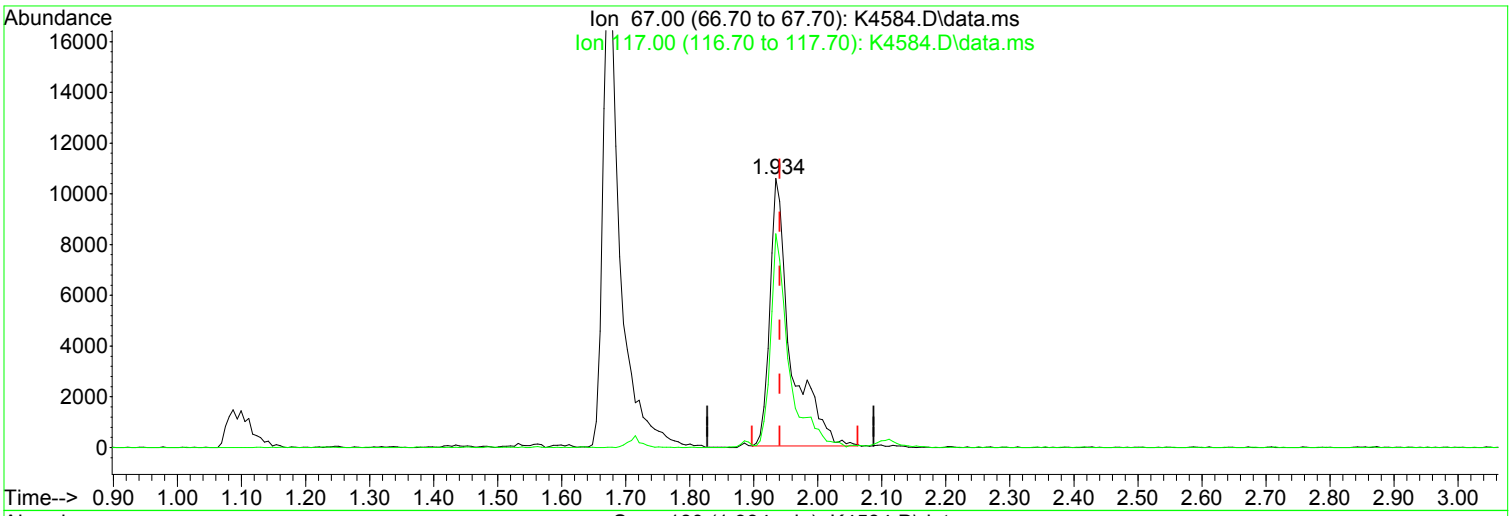
Poor integration.

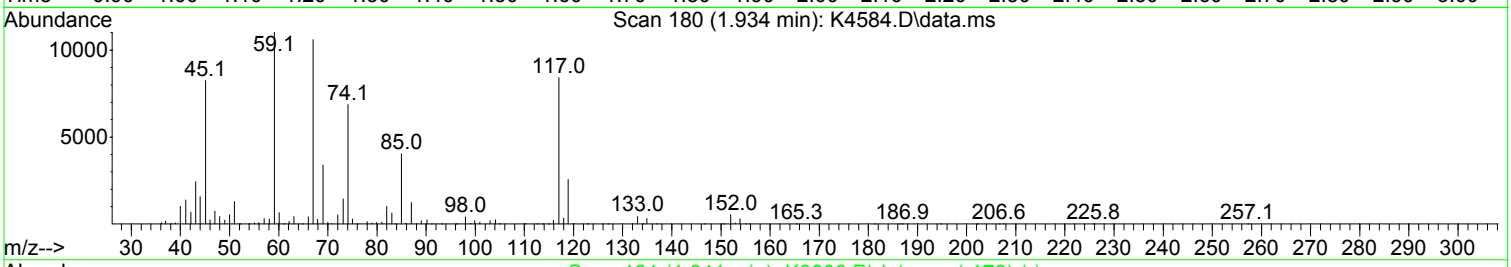
08/01/24

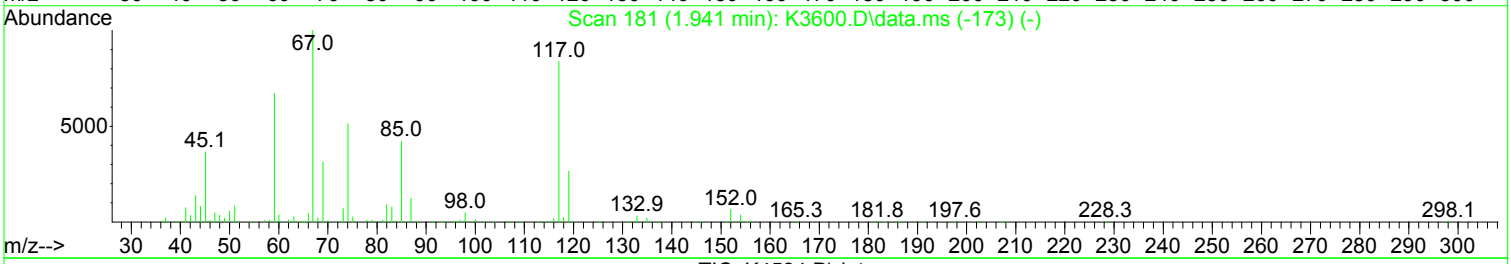
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4584.D
Acq On : 31 Jul 2024 04:46 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 31 19:25:13 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4584.D\data.ms

(11) Freon 123a

1.934min (-0.006) 6.32 ug/L

response 23974

Ion	Exp%	Act%
67.00	100.00	100.00
117.00	85.30	79.42
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

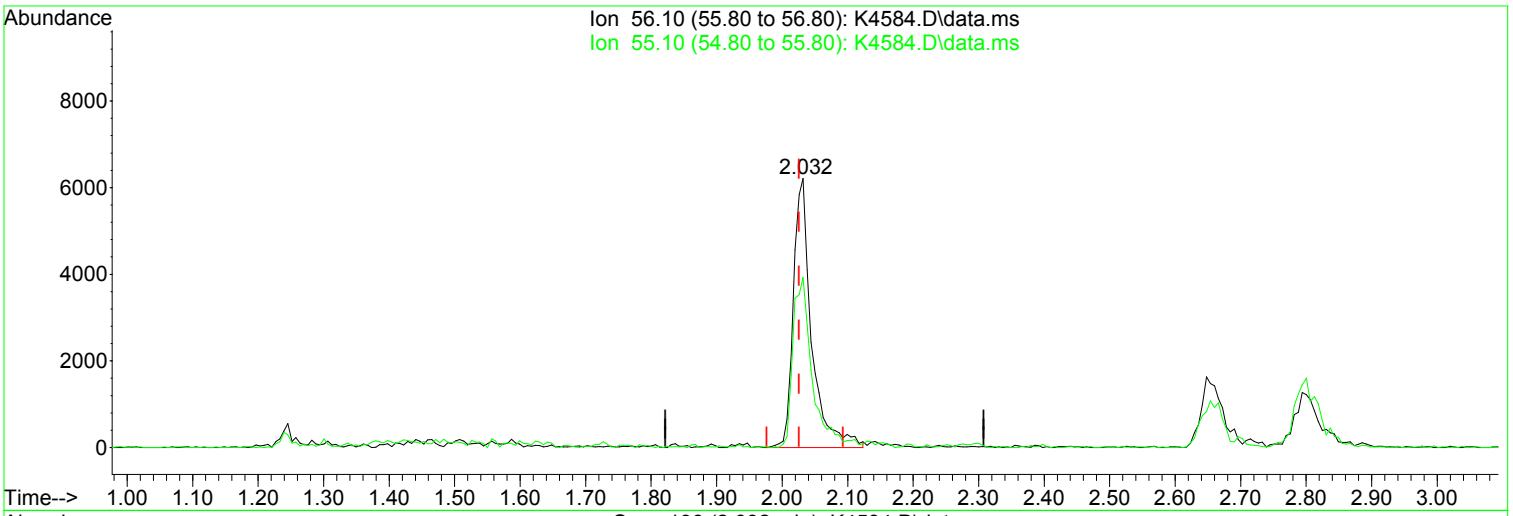
Before

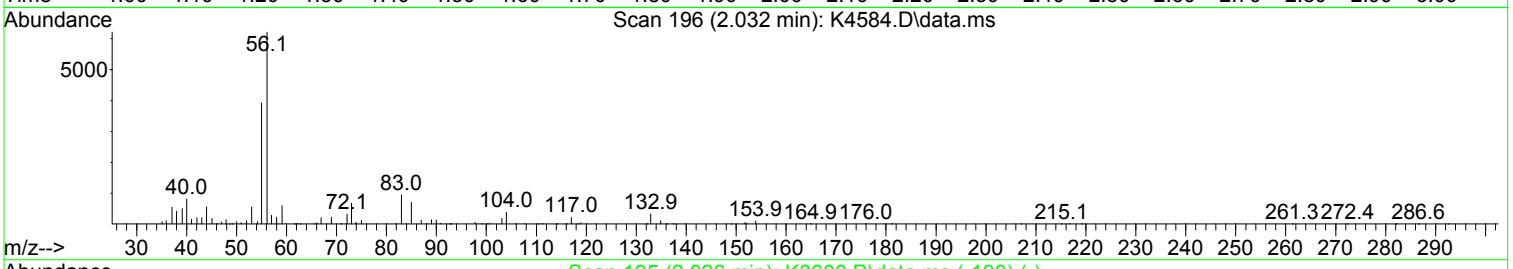
08/01/24

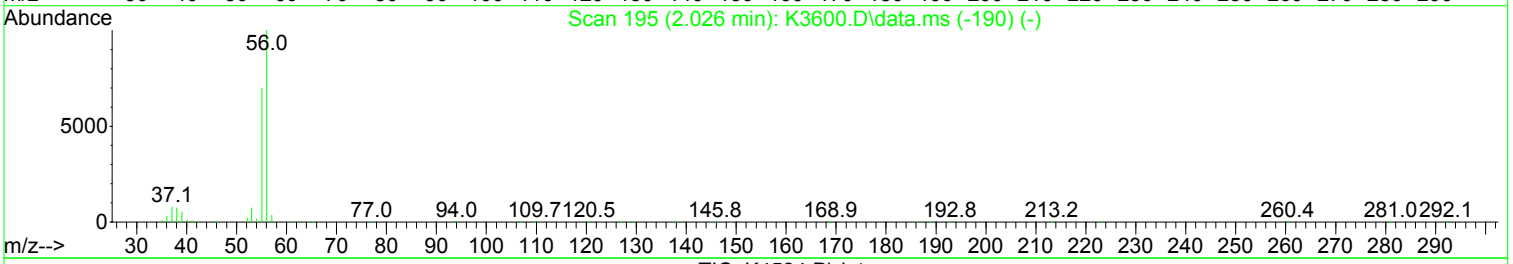
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4584.D
Acq On : 31 Jul 2024 04:46 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 31 19:25:13 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4584.D\data.ms

(13) Acrolein

2.032min (+ 0.006) 21.53 ug/L m

response 12015

Ion	Exp%	Act%
56.10	100.00	100.00
55.10	70.10	63.25
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

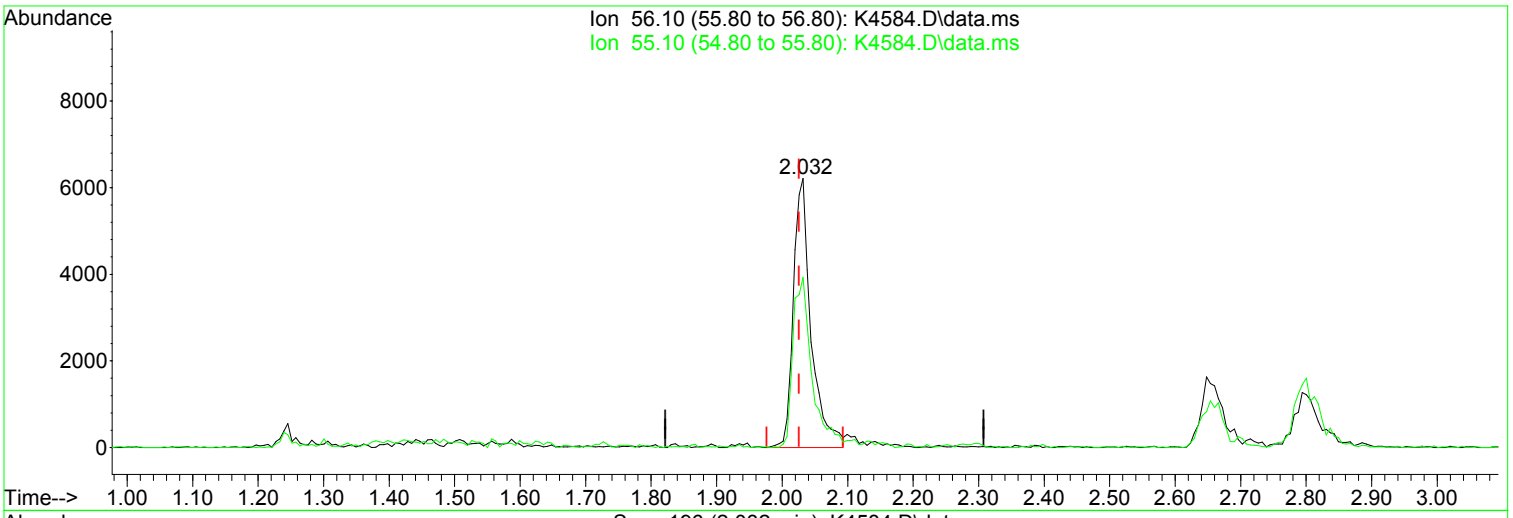
Poor integration.

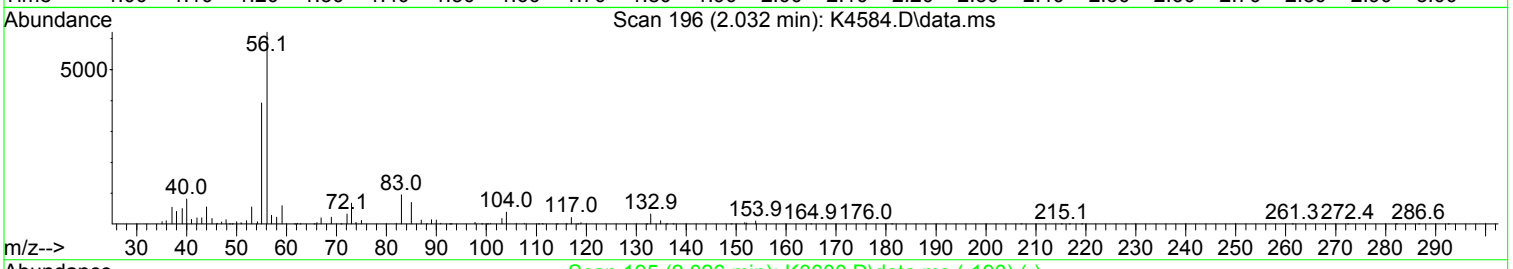
08/01/24

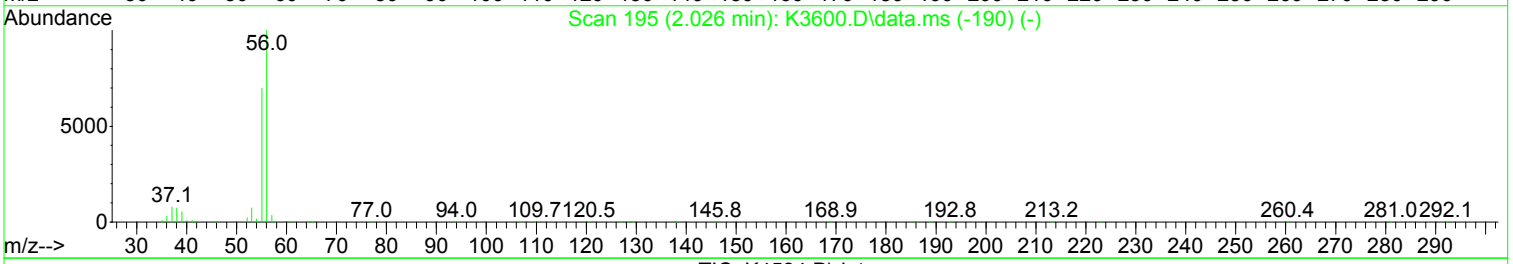
1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4584.D
Acq On : 31 Jul 2024 04:46 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 31 19:25:13 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4584.D\data.ms

(13) Acrolein

2.032min (+ 0.006) 20.85 ug/L

response 11636

Ion	Exp%	Act%
56.10	100.00	100.00
55.10	70.10	63.25
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

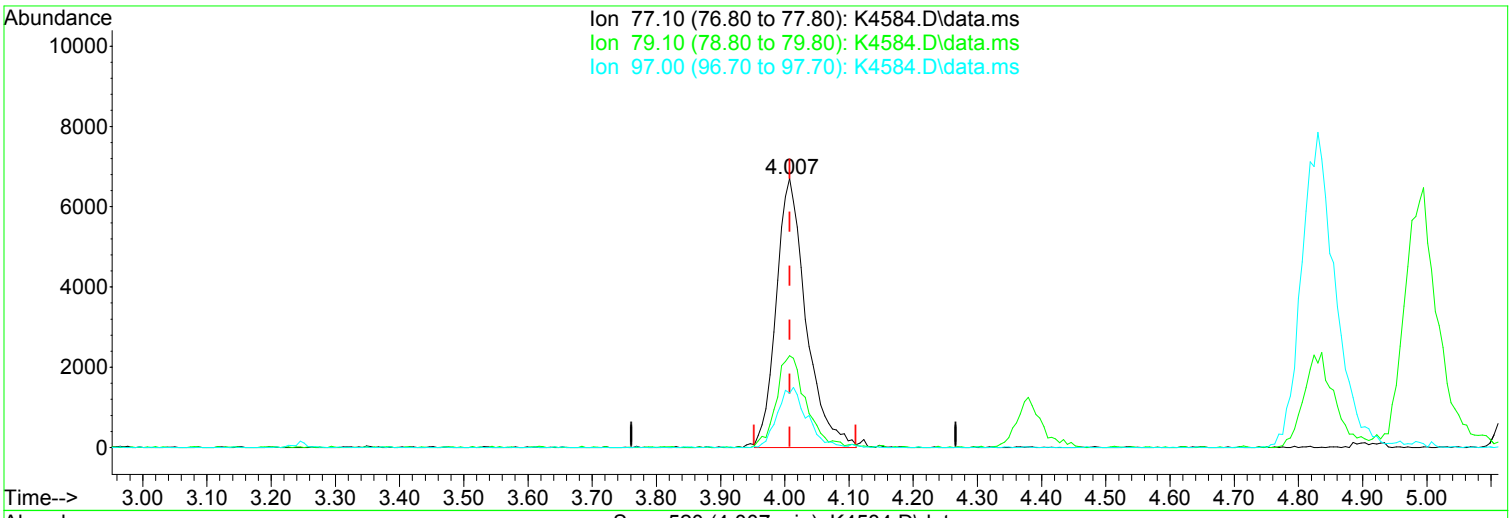
Before

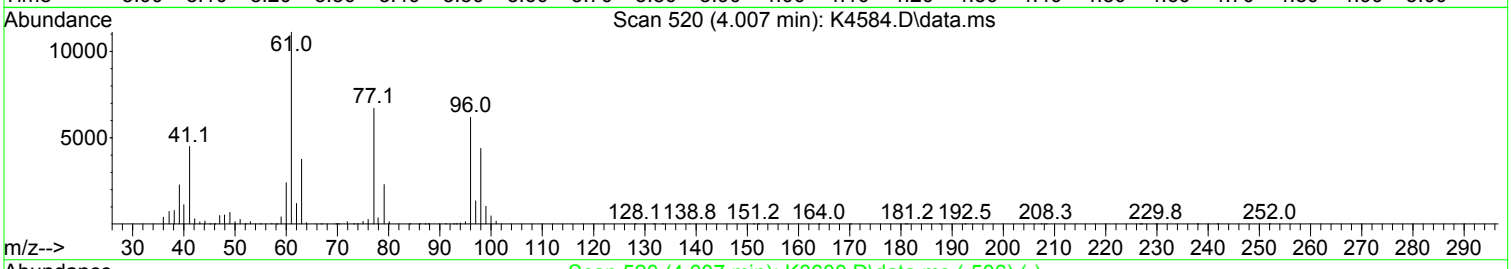
08/01/24

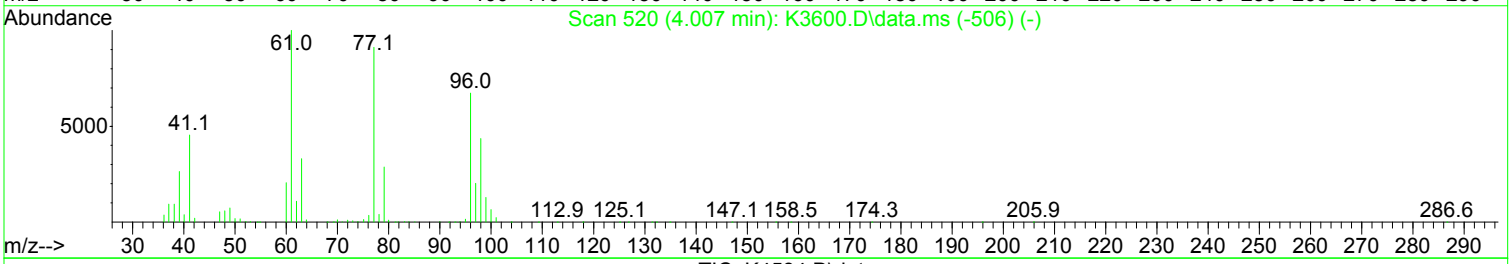
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4584.D
Acq On : 31 Jul 2024 04:46 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 31 19:25:13 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4584.D\data.ms

(32) 2,2-Dichloropropane

4.007min (-0.000) 5.07 ug/L m

response 21614

Ion	Exp%	Act%
77.10	100.00	100.00
79.10	31.50	34.18
97.00	22.20	20.19
0.00	0.00	0.00

Manual Integration:

After

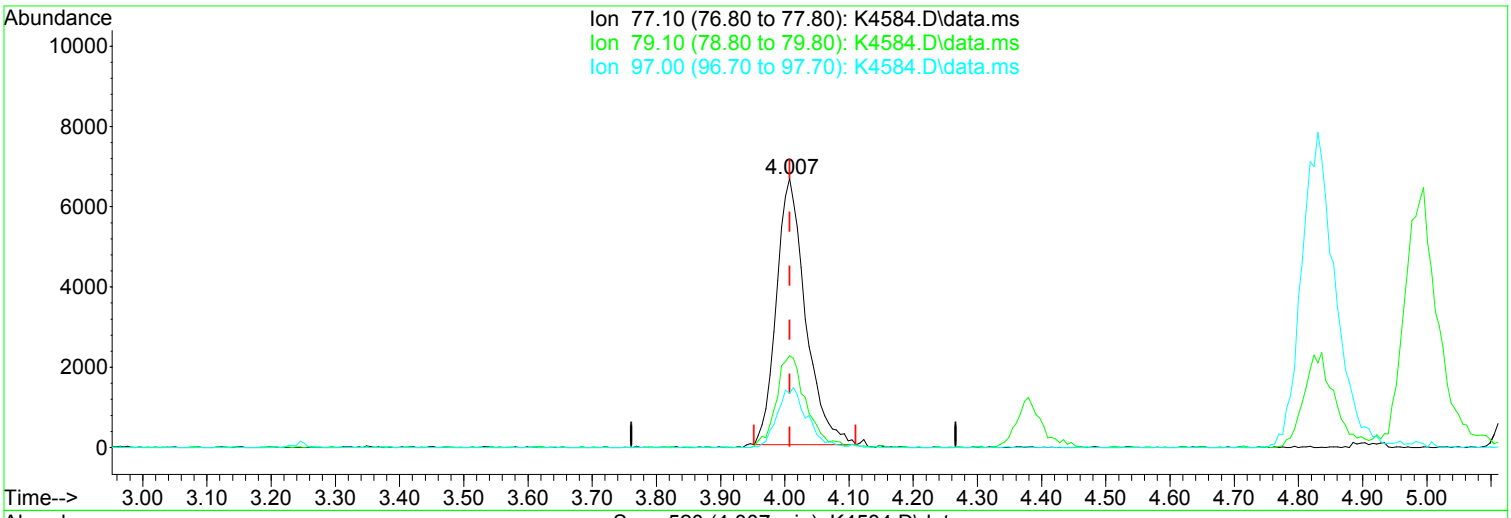
Poor integration.

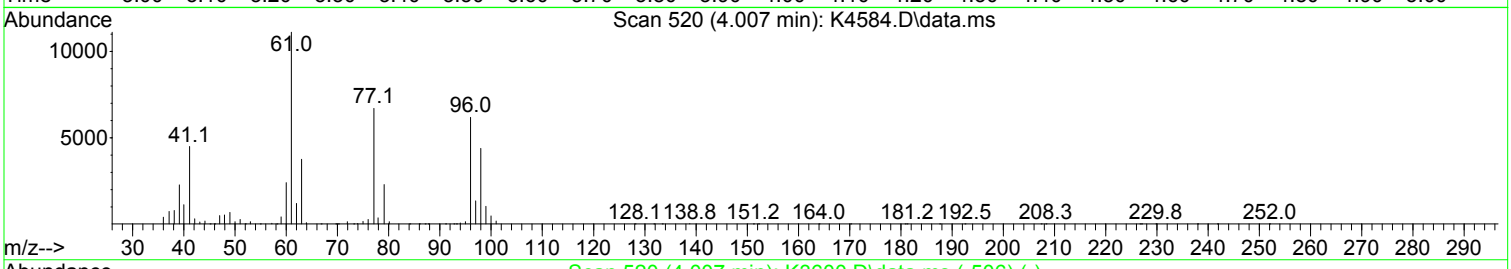
08/01/24

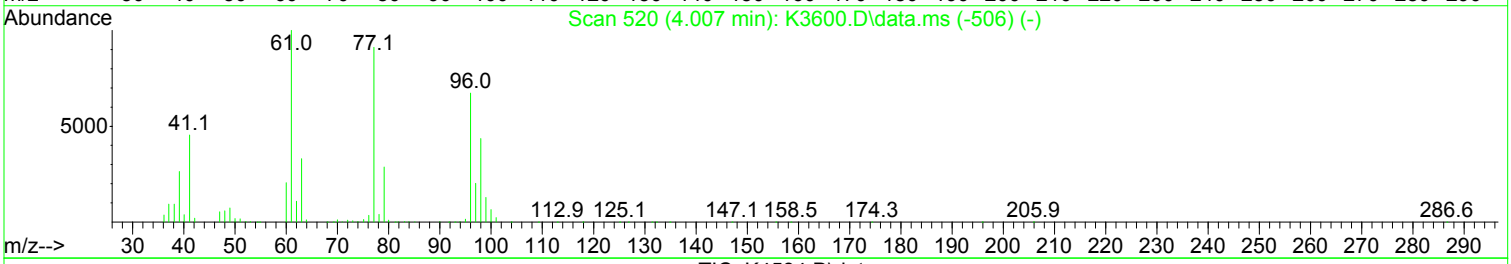
1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4584.D
Acq On : 31 Jul 2024 04:46 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 31 19:25:13 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4584.D\data.ms

(32) 2,2-Dichloropropane

4.007min (-0.000) 4.91 ug/L

response 20911

Ion	Exp%	Act%
77.10	100.00	100.00
79.10	31.50	34.18
97.00	22.20	20.19
0.00	0.00	0.00

Manual Integration:

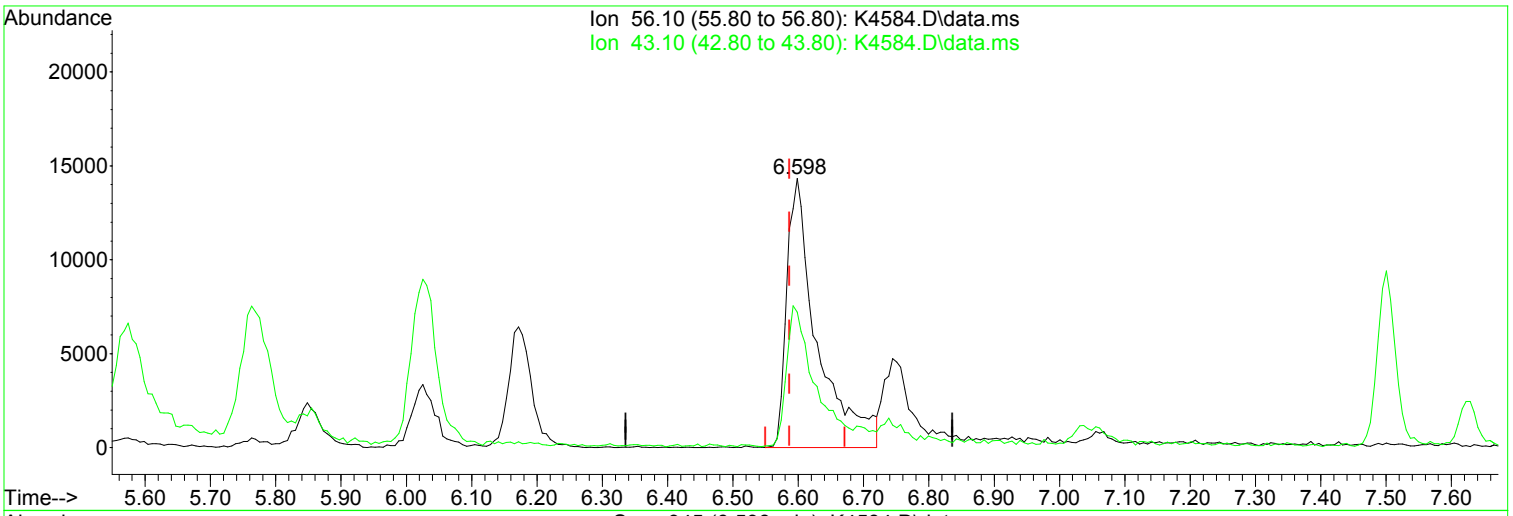
Before

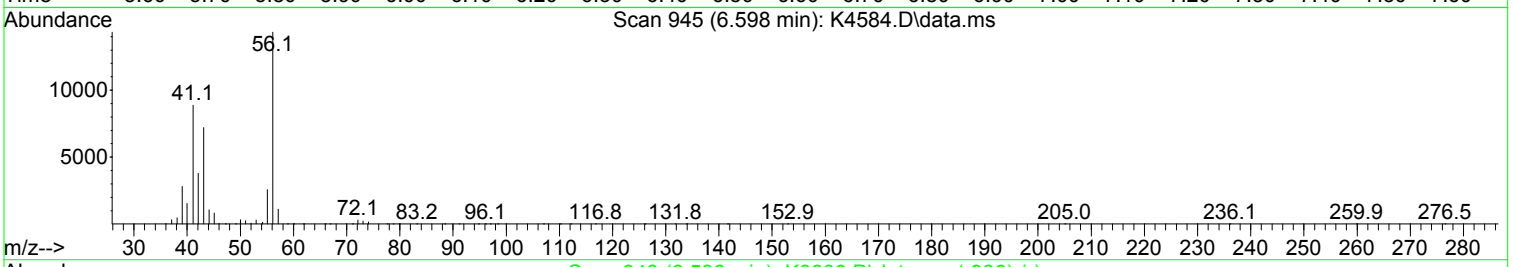
08/01/24

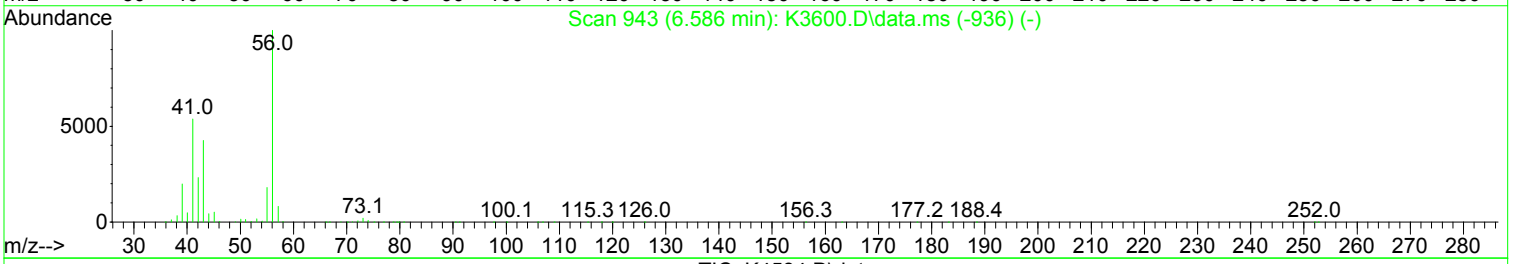
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4584.D
Acq On : 31 Jul 2024 04:46 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 31 19:25:13 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4584.D\data.ms

(52) 1-Butanol

6.598min (+ 0.012) 227.78 ug/L m

response 46422

Ion	Exp%	Act%
56.10	100.00	100.00
43.10	42.60	50.34
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

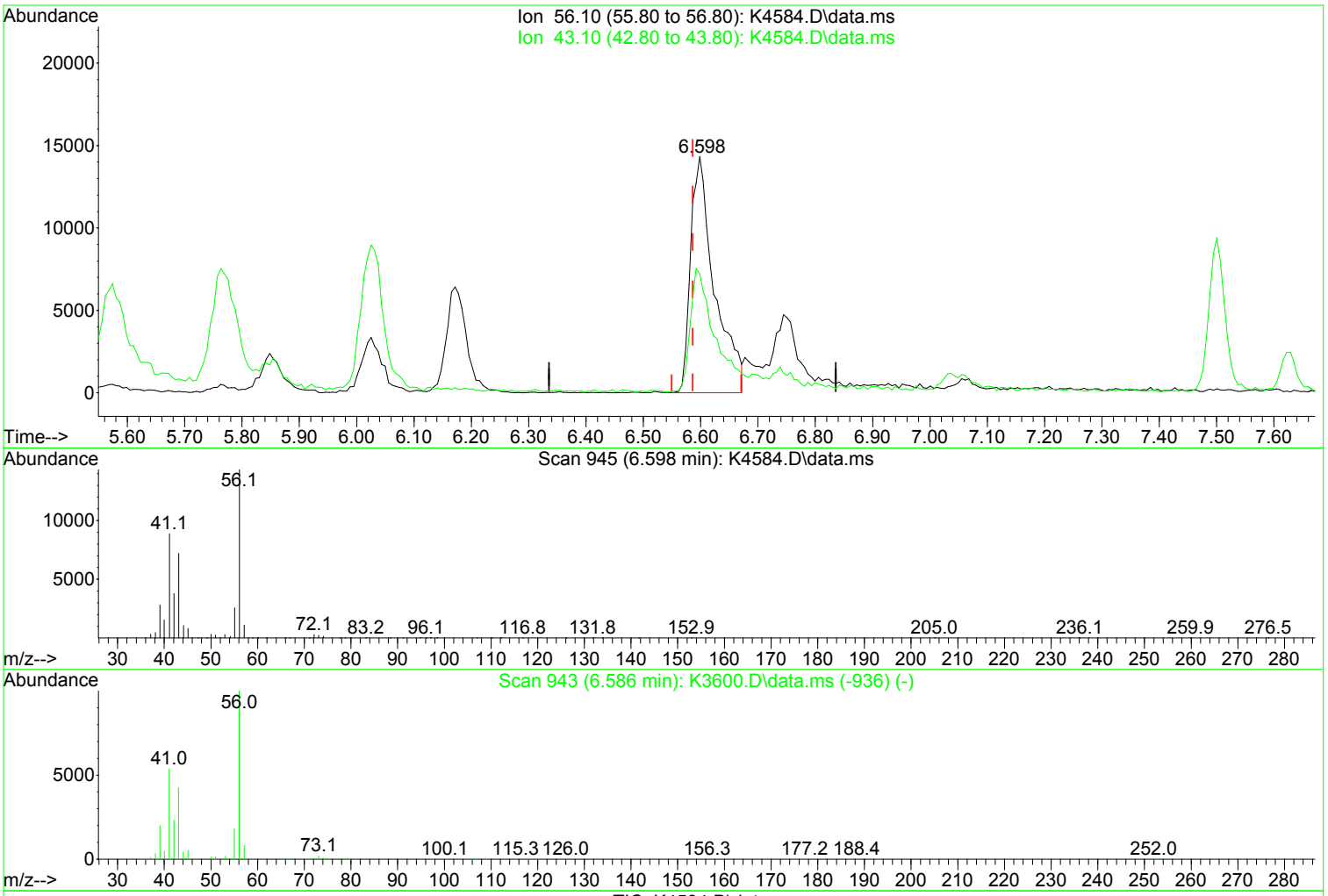
Poor integration.

08/01/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4584.D
Acq On : 31 Jul 2024 04:46 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 31 19:25:13 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



TIC: K4584.D\data.ms

(52) 1-Butanol

6.598min (+ 0.012) 202.96 ug/L

response 41364

Ion	Exp%	Act%
56.10	100.00	100.00
43.10	42.60	50.34
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

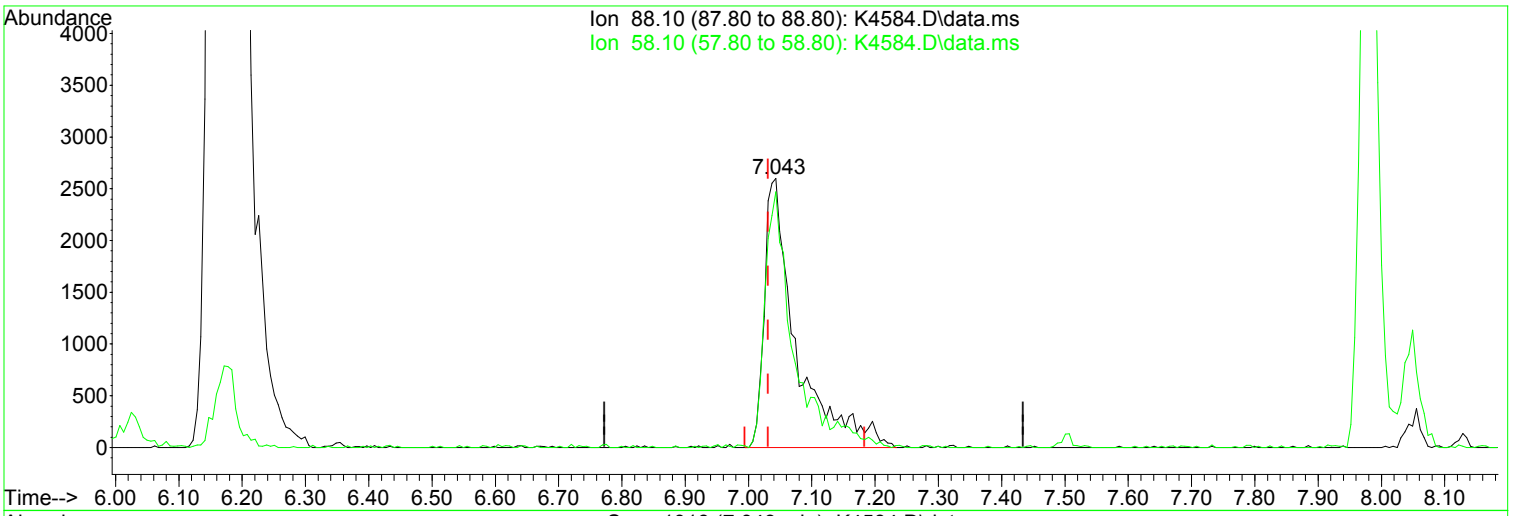
Before

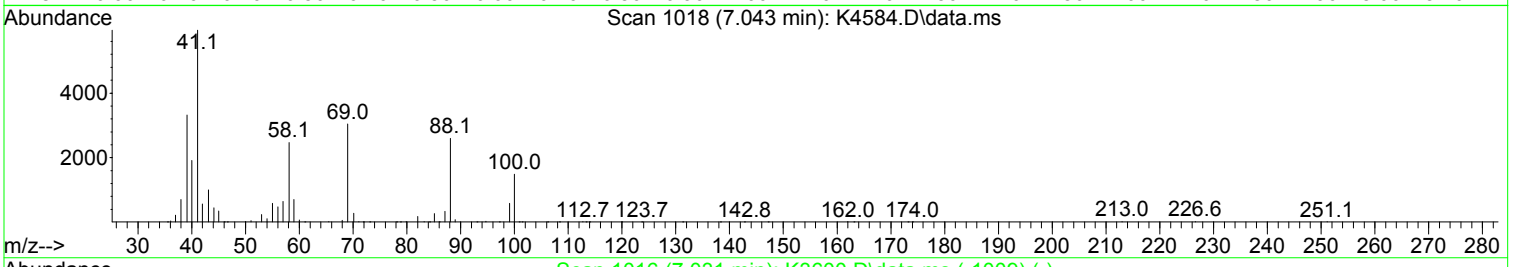
08/01/24

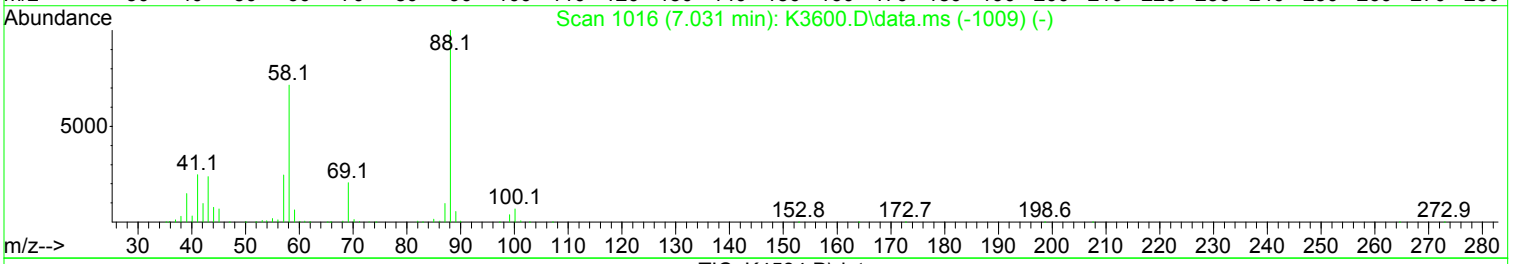
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4584.D
Acq On : 31 Jul 2024 04:46 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 31 19:25:13 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4584.D\data.ms

(57) 1,4-Dioxane

7.043min (+ 0.012) 110.13 ug/L m

response 9132

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	71.50	95.04#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

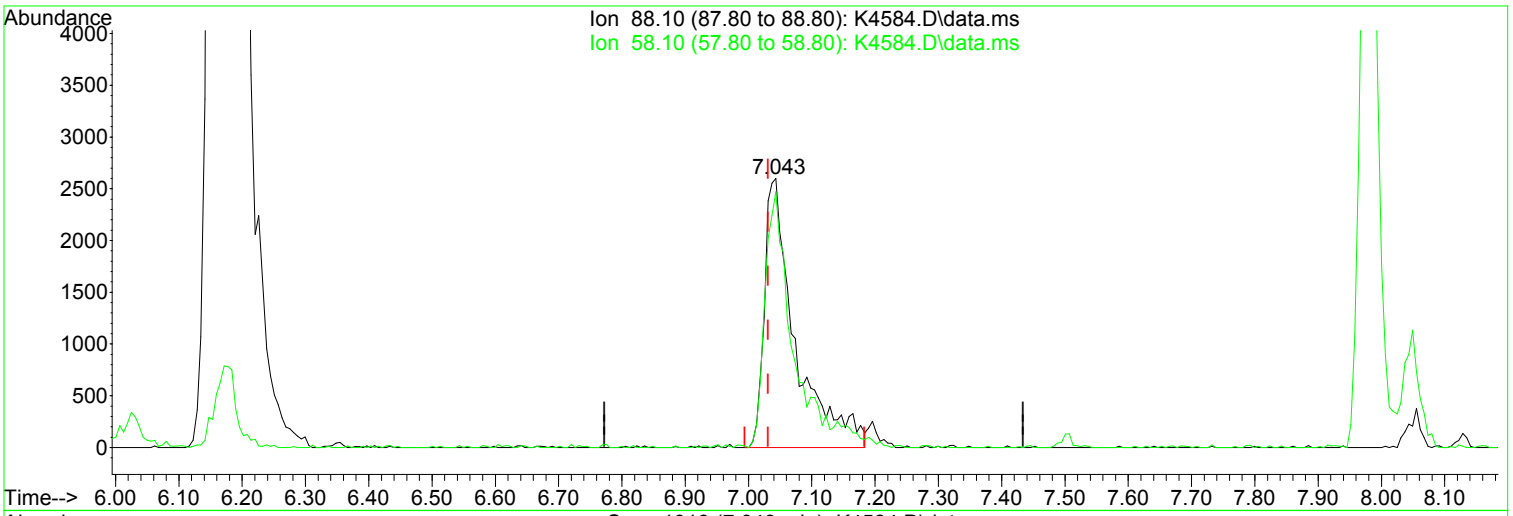
Poor integration.

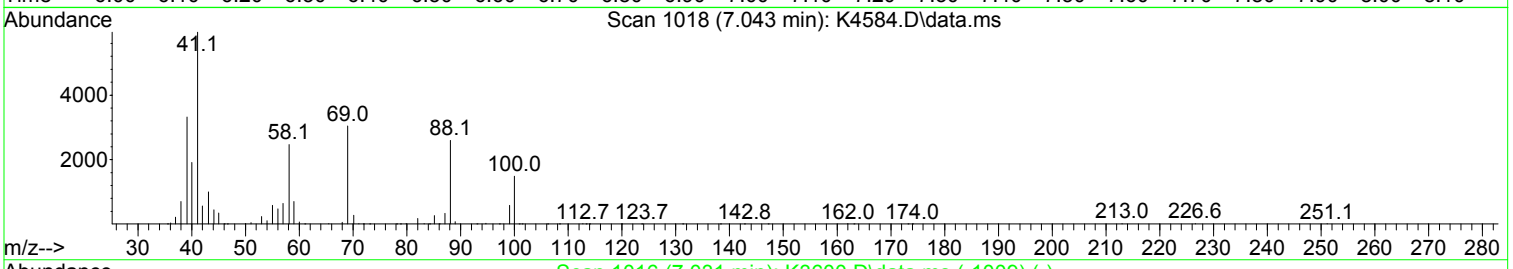
08/01/24

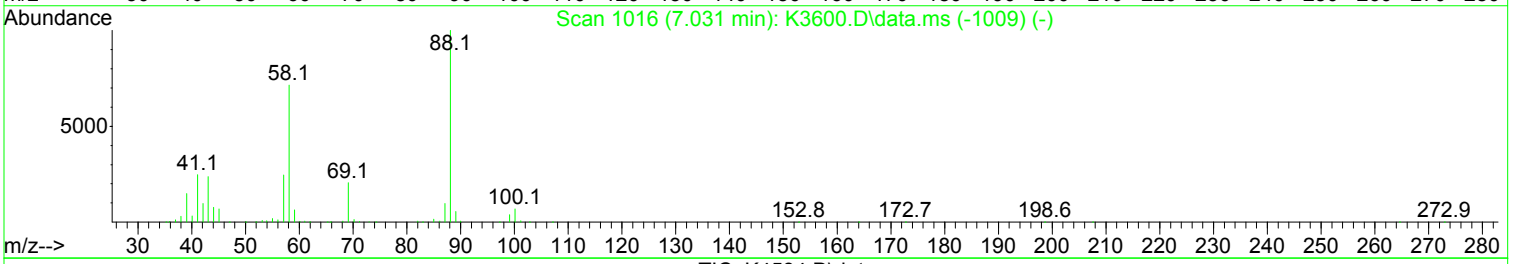
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4584.D
Acq On : 31 Jul 2024 04:46 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 31 19:25:13 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4584.D\data.ms

(57) 1,4-Dioxane

7.043min (+ 0.012) 106.58 ug/L

response 8838

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	71.50	95.04#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

08/01/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4584.D
Acq On : 31 Jul 2024 04:46 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 31 19:25:13 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.989	168	353221	50.00	ug/L		0.00
42) 1,4-Difluorobenzene	6.171	114	605605	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.573	117	536292	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	247061	50.00	ug/L		0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.830	113	39101	10.35	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 20.70%#				
47) surr1,1,2-dichloroetha...	5.415	65	55277	10.71	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 21.42%#				
64) SURR3,Toluene-d8	8.049	98	149748	10.80	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 21.60%#				
69) SURR2,BFB	10.665	95	57860	10.62	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 21.24%#				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.081	51	24278	5.051	ug/L		84
3) Dichlorodifluoromethane	1.075	85	19772	4.792	ug/L		90
4) Chloromethane	1.209	50	23262	5.019	ug/L		96
5) Vinyl Chloride	1.258	62	24773	5.181	ug/L		97
6) Bromomethane	1.465	94	10687	5.606	ug/L		96
7) Chloroethane	1.538	64	17084	5.637	ug/L		88
8) Freon 21	1.672	67	35572	5.517	ug/L		95
9) Trichlorofluoromethane	1.715	101	26879	5.055	ug/L		99
10) Diethyl Ether	1.928	59	19490	5.092	ug/L	#	77
11) Freon 123a	1.934	67	20240m	5.338	ug/L		
12) Freon 123	1.983	83	23182	5.356	ug/L		97
13) Acrolein	2.032	56	12015m	21.533	ug/L		
14) 1,1-Diclethene	2.099	96	15733	5.255	ug/L	#	82
15) Freon 113	2.111	101	16138	5.242	ug/L		94
16) Acetone	2.154	43	16735	5.919	ug/L		89
17) 2-Propanol	2.282	45	59324	106.398	ug/L		97
18) Iodomethane	2.221	142	22807	4.885	ug/L		99
19) Carbon Disulfide	2.276	76	35048	4.755	ug/L		98
20) Acetonitrile/Allyl Chl...	2.404	41	48817	32.815	ug/L		86
21) Methyl Acetate	2.434	43	25374	5.143	ug/L		87
22) Methylene Chloride	2.520	84	20657	4.666	ug/L	#	71
23) TBA	2.654	59	110652	107.071	ug/L		86
24) Acrylonitrile	2.757	53	70279	27.232	ug/L		98
25) Methyl-t-Butyl Ether	2.800	73	61428	5.417	ug/L		90
26) trans-1,2-Dichloroethene	2.782	96	16773	5.107	ug/L	#	83
27) 1,1-Diclethane	3.245	63	35495	5.241	ug/L		95
28) Vinyl Acetate	3.330	86	2814	4.251	ug/L	#	1
29) DIPE	3.361	45	64622	5.404	ug/L		82
30) 2-Chloro-1,3-Butadiene	3.355	53	36811	5.370	ug/L		82
31) ETBE	3.849	59	69514	5.488	ug/L		91
32) 2,2-Dichloropropane	4.007	77	21614m	5.073	ug/L		
33) cis-1,2-Dichloroethene	4.013	96	20275	5.386	ug/L		85
34) 2-Butanone	4.080	43	17252	5.114	ug/L		74
35) Propionitrile	4.160	54	31106	26.989	ug/L		99
36) Bromochloromethane	4.379	130	13778	5.521	ug/L	#	75
37) Methacrylonitrile	4.403	67	11238	5.231	ug/L	#	36
38) Tetrahydrofuran	4.495	42	11572	5.378	ug/L	#	64
39) Chloroform	4.550	83	32504	5.163	ug/L		89
40) 1,1,1-Trichloroethane	4.830	97	28660	5.672	ug/L		93

1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4584.D
Acq On : 31 Jul 2024 04:46 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 31 19:25:13 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) TAME	5.769	73	52432	5.367	ug/L		86
43) Cyclohexane	4.909	41	18812	5.276	ug/L		94
45) Carbontetrachloride	5.129	117	24895	5.170	ug/L		92
46) 1,1-Dichloropropene	5.147	75	23143	5.204	ug/L		94
48) Benzene	5.501	78	70448	5.469	ug/L		88
49) 1,2-Dichloroethane	5.550	62	35068	5.430	ug/L		95
50) Iso-Butyl Alcohol	5.574	43	27761	89.276	ug/L		94
51) n-Heptane	6.025	43	24700	5.091	ug/L	#	79
52) 1-Butanol	6.598	56	46422m	227.782	ug/L		
53) Trichloroethene	6.507	130	20313	5.289	ug/L	#	90
54) Methylcyclohexane	6.745	55	27580	5.089	ug/L	#	68
55) 1,2-Diclpropane	6.805	63	21043	5.367	ug/L		99
56) Dibromomethane	6.952	93	12395	5.041	ug/L		98
57) 1,4-Dioxane	7.043	88	9132m	110.126	ug/L		
58) Methyl Methacrylate	7.062	69	16858	5.145	ug/L	#	53
59) Bromodichloromethane	7.196	83	23235	5.030	ug/L		98
60) 2-Nitropropane	7.500	41	15491	9.383	ug/L		95
61) 2-Chloroethylvinyl Ether	7.622	63	6496	5.129	ug/L		99
62) cis-1,3-Dichloropropene	7.750	75	26918	5.116	ug/L		96
63) 4-Methyl-2-pentanone	7.976	43	31385	5.110	ug/L		84
65) Toluene	8.122	91	77089	5.243	ug/L		93
66) trans-1,3-Dichloropropene	8.409	75	25464	5.040	ug/L		96
67) Ethyl Methacrylate	8.561	69	28523	5.040	ug/L	#	60
68) 1,1,2-Trichloroethane	8.604	97	18459	5.209	ug/L		92
71) Tetrachloroethene	8.726	164	14002	5.295	ug/L	#	87
72) 2-Hexanone	8.915	43	25219	5.335	ug/L		85
73) 1,3-Dichloropropane	8.775	76	31325	5.414	ug/L	#	80
74) Dibromochloromethane	9.000	129	18065	4.836	ug/L		96
75) N-Butyl Acetate	9.073	43	48445	5.345	ug/L		91
76) 1,2-Dibromoethane	9.098	107	20986	5.481	ug/L		93
77) 3-Chlorobenzotrifluoride	9.634	180	22824	5.238	ug/L		94
78) Chlorobenzene	9.598	112	53207	5.295	ug/L		92
79) 4-Chlorobenzotrifluoride	9.683	180	21192	5.249	ug/L		99
80) 1,1,1,2-Tetrachloroethane	9.695	131	19033	5.257	ug/L		98
81) Ethylbenzene	9.726	106	26729	5.290	ug/L		98
82) (m+p)Xylene	9.842	106	66127	10.631	ug/L		98
83) o-Xylene	10.201	106	32681	5.275	ug/L		96
84) Styrene	10.213	104	55576	5.333	ug/L		97
85) Bromoform	10.366	173	10118	4.789	ug/L		100
86) 2-Chlorobenzotrifluoride	10.457	180	23397	5.299	ug/L		99
87) Isopropylbenzene	10.543	105	85922	5.410	ug/L		98
88) Cyclohexanone	10.610	55	117657	100.275	ug/L		92
89) trans-1,4-Dichloro-2-B...	10.860	53	11399	5.086	ug/L		79
91) 1,1,2,2-Tetrachloroethane	10.811	83	27958	5.407	ug/L		95
92) Bromobenzene	10.780	156	21208	5.381	ug/L		90
93) 1,2,3-Trichloropropane	10.835	110	10351	5.520	ug/L		92
94) n-Propylbenzene	10.896	91	96527	5.392	ug/L		98
95) 2-Chlorotoluene	10.957	91	61527	5.465	ug/L		98
96) 3-Chlorotoluene	11.012	91	62314	5.470	ug/L		97
97) 4-Chlorotoluene	11.055	91	71351	5.510	ug/L		98
98) 1,3,5-Trimethylbenzene	11.055	105	74119	5.466	ug/L		98
99) tert-Butylbenzene	11.323	119	62348	5.388	ug/L		98
100) 1,2,4-Trimethylbenzene	11.366	105	74210	5.399	ug/L		100
101) 3,4-Dichlorobenzotrifl...	11.433	214	15461	5.180	ug/L		95
102) sec-Butylbenzene	11.512	105	86551	5.341	ug/L		99
103) p-Isopropyltoluene	11.634	119	75356	5.288	ug/L		99

1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4584.D
Acq On : 31 Jul 2024 04:46 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 31 19:25:13 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

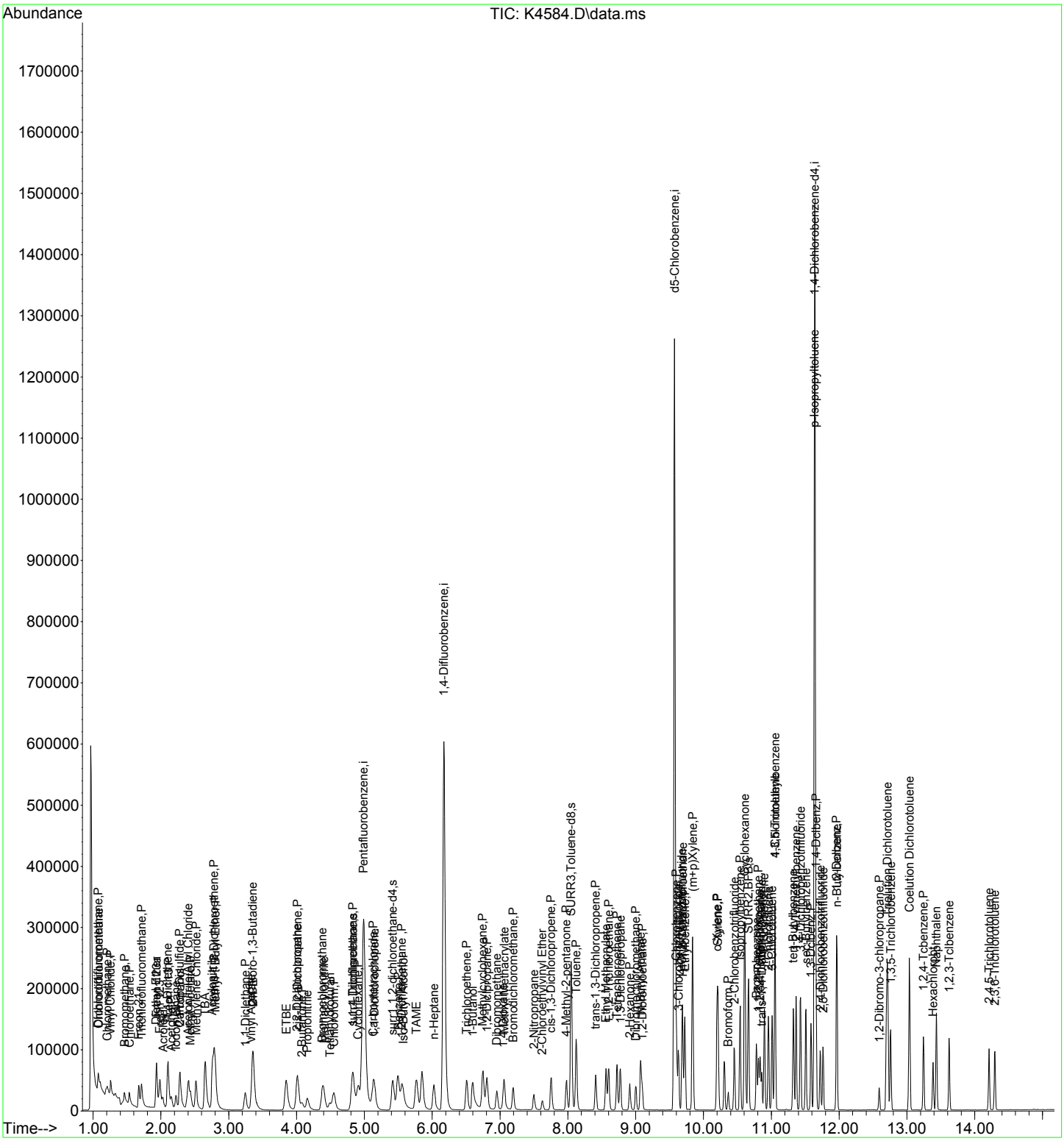
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.585	146	40926	5.422	ug/L	97
105) 1,4-Dclbenz	11.658	146	40093	5.261	ug/L	92
106) 2,4-Dichlorobenzotrifl...	11.725	214	14158	5.386	ug/L	96
107) 2,5-Dichlorobenzotrifl...	11.768	214	15519	5.297	ug/L	93
108) n-Butylbenzene	11.969	91	64605	5.206	ug/L	99
109) 1,2-Dclbenz	11.963	146	39234	5.265	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.591	157	5853	4.758	ug/L	84
111) Trielution Dichlorotol...	12.713	125	112627	16.034	ug/L	94
112) 1,3,5-Trichlorobenzene	12.762	180	26582	5.459	ug/L	95
113) Coelution Dichlorotoluene	13.036	125	80079	10.598	ug/L	97
114) 1,2,4-Tcbenzene	13.243	180	24151	5.115	ug/L	93
115) Hexachlorobt	13.384	225	9018	5.188	ug/L	95
116) Naphthalen	13.432	128	95267	5.335	ug/L	99
117) 1,2,3-Tclbenzene	13.621	180	24129	5.186	ug/L	96
118) 2,4,5-Trichlorotoluene	14.213	159	18909	5.102	ug/L	95
119) 2,3,6-Trichlorotoluene	14.298	159	17717	5.166	ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4584.D
Acq On : 31 Jul 2024 04:46 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260/624 ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 31 19:25:13 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4585.D
Acq On : 31 Jul 2024 05:12 pm
Operator : K.Ruest
Sample : 20ppb
Misc : 8260/624 ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 31 19:25:18 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.995	168	358873	50.00	ug/L		0.00
42) 1,4-Difluorobenzene	6.178	114	610676	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.573	117	537613	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	250351	50.00	ug/L		0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.830	113	68340	17.94	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 35.88%#				
47) surr1,1,2-dichloroetha...	5.422	65	95471	18.34	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 36.68%#				
64) SURR3,Toluene-d8	8.049	98	255641	18.29	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 36.58%#				
69) SURR2,BFB	10.665	95	99946	18.18	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 36.36%#				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.081	51	87705	17.959	ug/L		92
3) Dichlorodifluoromethane	1.075	85	87559	20.888	ug/L		95
4) Chloromethane	1.209	50	87637	18.612	ug/L		97
5) Vinyl Chloride	1.258	62	87834	18.081	ug/L		99
6) Bromomethane	1.471	94	38546	19.901	ug/L		99
7) Chloroethane	1.538	64	59246	19.240	ug/L		95
8) Freon 21	1.672	67	119153	18.190	ug/L		98
9) Trichlorofluoromethane	1.715	101	98566	18.245	ug/L		99
10) Diethyl Ether	1.928	59	67059	17.245	ug/L		84
11) Freon 123a	1.935	67	64327	16.697	ug/L		85
12) Freon 123	1.983	83	79971	18.185	ug/L		97
13) Acrolein	2.026	56	46358	81.774	ug/L		99
14) 1,1-Diclethene	2.105	96	53670	17.643	ug/L	#	75
15) Freon 113	2.111	101	56210	17.970	ug/L		90
16) Acetone	2.154	43	56241	19.579	ug/L		90
17) 2-Propanol	2.282	45	215612	380.612	ug/L		99
18) Iodomethane	2.221	142	85354	17.994	ug/L		99
19) Carbon Disulfide	2.276	76	130639	17.444	ug/L		99
20) Acetonitrile/Allyl Chl...	2.404	41	161242	106.679	ug/L		87
21) Methyl Acetate	2.434	43	89413	17.838	ug/L		85
22) Methylene Chloride	2.520	84	62995	14.007	ug/L	#	70
23) TBA	2.648	59	382133	363.942	ug/L		91
24) Acrylonitrile	2.758	53	235379	89.769	ug/L		99
25) Methyl-t-Butyl Ether	2.800	73	209347	18.171	ug/L		88
26) trans-1,2-Dichloroethene	2.788	96	58953	17.667	ug/L	#	81
27) 1,1-Diclethane	3.245	63	120970	17.580	ug/L		98
28) Vinyl Acetate	3.331	86	10901	16.209	ug/L	#	1
29) DIPE	3.361	45	223374	18.387	ug/L		87
30) 2-Chloro-1,3-Butadiene	3.355	53	125469	18.015	ug/L		82
31) ETBE	3.849	59	232514	18.068	ug/L		91
32) 2,2-Dichloropropane	4.007	77	84501	19.521	ug/L		98
33) cis-1,2-Dichloroethene	4.013	96	67718	17.707	ug/L	#	76
34) 2-Butanone	4.080	43	62330	18.185	ug/L		87
35) Propionitrile	4.154	54	107084	91.449	ug/L		98
36) Bromochloromethane	4.379	130	44861	17.693	ug/L	#	61
37) Methacrylonitrile	4.398	67	38379	17.582	ug/L	#	30
38) Tetrahydrofuran	4.483	42	38258	17.500	ug/L	#	71
39) Chloroform	4.550	83	110882	17.334	ug/L		96
40) 1,1,1-Trichloroethane	4.824	97	100588	19.592	ug/L		93

1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4585.D
Acq On : 31 Jul 2024 05:12 pm
Operator : K.Ruest
Sample : 20ppb
Misc : 8260/624 ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 31 19:25:18 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) TAME	5.763	73	182034	18.339	ug/L		88
43) Cyclohexane	4.910	41	62281	17.322	ug/L		94
45) Carbontetrachloride	5.129	117	83368	17.169	ug/L		97
46) 1,1-Dichloropropene	5.147	75	76211	16.994	ug/L		97
48) Benzene	5.495	78	227746	17.534	ug/L		86
49) 1,2-Dichloroethane	5.544	62	116586	17.904	ug/L		94
50) Iso-Butyl Alcohol	5.562	43	111676	356.155	ug/L		100
51) n-Heptane	6.025	43	83506	17.070	ug/L	#	78
52) 1-Butanol	6.586	56	204850	996.803	ug/L		87
53) Trichloroethene	6.507	130	67590	17.453	ug/L		96
54) Methylcyclohexane	6.751	55	97283	17.802	ug/L	#	72
55) 1,2-Diclpropane	6.806	63	68962	17.442	ug/L		94
56) Dibromomethane	6.952	93	42830	17.274	ug/L		94
57) 1,4-Dioxane	7.037	88	29964	358.347	ug/L		97
58) Methyl Methacrylate	7.056	69	59631	18.049	ug/L	#	62
59) Bromodichloromethane	7.196	83	81350	17.464	ug/L		97
60) 2-Nitropropane	7.501	41	59786	35.912	ug/L		90
61) 2-Chloroethylvinyl Ether	7.623	63	23407	18.329	ug/L		95
62) cis-1,3-Dichloropropene	7.757	75	97086	18.300	ug/L		98
63) 4-Methyl-2-pentanone	7.976	43	113983	18.403	ug/L		86
65) Toluene	8.122	91	251338	16.951	ug/L		95
66) trans-1,3-Dichloropropene	8.409	75	91267	17.913	ug/L		97
67) Ethyl Methacrylate	8.561	69	100720	17.649	ug/L	#	67
68) 1,1,2-Trichloroethane	8.604	97	63474	17.764	ug/L		97
71) Tetrachloroethene	8.726	164	45203	17.051	ug/L		95
72) 2-Hexanone	8.909	43	88940	18.770	ug/L		85
73) 1,3-Dichloropropane	8.775	76	103558	17.854	ug/L	#	79
74) Dibromochloromethane	9.000	129	67323	17.979	ug/L		97
75) N-Butyl Acetate	9.073	43	175580	19.324	ug/L		87
76) 1,2-Dibromoethane	9.098	107	70583	18.389	ug/L		99
77) 3-Chlorobenzotrifluoride	9.634	180	75706	17.331	ug/L		89
78) Chlorobenzene	9.598	112	170916	16.966	ug/L		94
79) 4-Chlorobenzotrifluoride	9.689	180	69824	17.252	ug/L		96
80) 1,1,1,2-Tetrachloroethane	9.695	131	65927	18.163	ug/L		98
81) Ethylbenzene	9.726	106	89237	17.618	ug/L		96
82) (m+p)Xylene	9.842	106	223663	35.871	ug/L		97
83) o-Xylene	10.201	106	107636	17.332	ug/L		92
84) Styrene	10.220	104	189563	18.146	ug/L		97
85) Bromoform	10.366	173	37737	17.819	ug/L		99
86) 2-Chlorobenzotrifluoride	10.457	180	77247	17.452	ug/L		96
87) Isopropylbenzene	10.543	105	282054	17.715	ug/L		98
88) Cyclohexanone	10.610	55	465329	395.611	ug/L		92
89) trans-1,4-Dichloro-2-B...	10.860	53	42168	18.768	ug/L		79
91) 1,1,2,2-Tetrachloroethane	10.811	83	96093	18.340	ug/L		99
92) Bromobenzene	10.781	156	70521	17.658	ug/L	#	88
93) 1,2,3-Trichloropropane	10.835	110	34865	18.350	ug/L	#	84
94) n-Propylbenzene	10.896	91	324754	17.901	ug/L		99
95) 2-Chlorotoluene	10.957	91	201259	17.640	ug/L		99
96) 3-Chlorotoluene	11.012	91	204933	17.754	ug/L		96
97) 4-Chlorotoluene	11.055	91	242157	18.453	ug/L		96
98) 1,3,5-Trimethylbenzene	11.055	105	244950	17.828	ug/L		99
99) tert-Butylbenzene	11.329	119	206854	17.640	ug/L		97
100) 1,2,4-Trimethylbenzene	11.366	105	249852	17.937	ug/L		98
101) 3,4-Dichlorobenzotrifl...	11.433	214	52830	17.466	ug/L		95
102) sec-Butylbenzene	11.512	105	293702	17.888	ug/L		98
103) p-Isopropyltoluene	11.634	119	262178	18.157	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4585.D
Acq On : 31 Jul 2024 05:12 pm
Operator : K.Ruest
Sample : 20ppb
Misc : 8260/624 ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 31 19:25:18 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

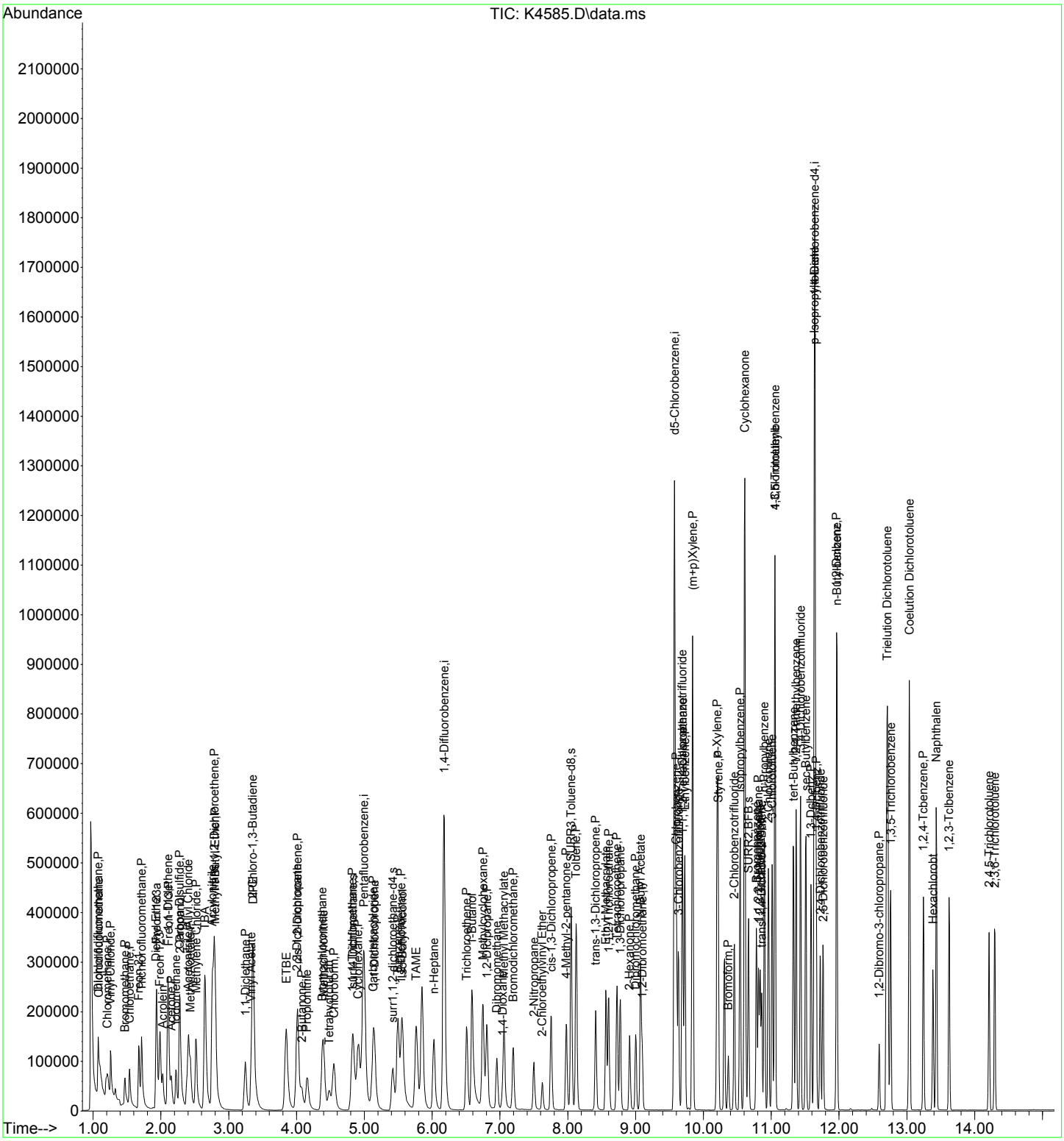
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.585	146	134004	17.520	ug/L	99
105) 1,4-Dclbenz	11.665	146	137913	17.858	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.725	214	46678	17.525	ug/L	97
107) 2,5-Dichlorobenzotrifl...	11.768	214	51315	17.284	ug/L	99
108) n-Butylbenzene	11.969	91	229906	18.283	ug/L	98
109) 1,2-Dclbenz	11.963	146	133938	17.736	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.591	157	24334	19.520	ug/L	95
111) Trielution Dichlorotol...	12.713	125	388966	54.646	ug/L	96
112) 1,3,5-Trichlorobenzene	12.762	180	88351	17.905	ug/L	98
113) Coelution Dichlorotoluene	13.036	125	286820	37.462	ug/L	97
114) 1,2,4-Tcbenzene	13.243	180	87104	18.206	ug/L	99
115) Hexachlorobt	13.384	225	31896	18.110	ug/L	96
116) Naphthalen	13.432	128	346989	19.178	ug/L	99
117) 1,2,3-Tclbenzene	13.621	180	86242	18.291	ug/L	96
118) 2,4,5-Trichlorotoluene	14.213	159	70042	18.648	ug/L	95
119) 2,3,6-Trichlorotoluene	14.298	159	67405	19.397	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4585.D
Acq On : 31 Jul 2024 05:12 pm
Operator : K.Ruest
Sample : 20ppb
Misc : 8260/624 ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 31 19:25:18 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4586.D
Acq On : 31 Jul 2024 05:37 pm
Operator : K.Ruest
Sample : 50ppb
Misc : 8260/624 ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 31 19:25:23 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.995	168	363476	50.00	ug/L		0.00
42) 1,4-Difluorobenzene	6.178	114	621116	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.573	117	558886	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.640	152	279249	50.00	ug/L		0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.830	113	197847	51.06	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 102.12%				
47) surr1,1,2-dichloroetha...	5.416	65	271038	51.18	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.36%				
64) SURR3,Toluene-d8	8.049	98	722177	50.79	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.58%				
69) SURR2,BFB	10.665	95	286273	51.21	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.42%				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.081	51	243593	49.247	ug/L		90
3) Dichlorodifluoromethane	1.075	85	241158	56.803	ug/L		96
4) Chloromethane	1.209	50	242008	50.747	ug/L		97
5) Vinyl Chloride	1.264	62	244305	49.655	ug/L		97
6) Bromomethane	1.465	94	97642	49.772	ug/L		99
7) Chloroethane	1.532	64	162994	52.261	ug/L		96
8) Freon 21	1.672	67	322048	48.541	ug/L		98
9) Trichlorofluoromethane	1.715	101	271772	49.669	ug/L		98
10) Diethyl Ether	1.935	59	189053	48.003	ug/L		85
11) Freon 123a	1.935	67	175298	44.926	ug/L		87
12) Freon 123	1.989	83	221260	49.676	ug/L		99
13) Acrolein	2.026	56	153666	267.628	ug/L		99
14) 1,1-Diclethene	2.105	96	149701	48.589	ug/L	#	79
15) Freon 113	2.105	101	154039	48.622	ug/L		92
16) Acetone	2.154	43	147713	50.772	ug/L		91
17) 2-Propanol	2.282	45	578688	1008.601	ug/L		99
18) Iodomethane	2.221	142	250698	52.182	ug/L		97
19) Carbon Disulfide	2.276	76	388592	51.230	ug/L		100
20) Acetonitrile/Allyl Chl...	2.404	41	446733	291.820	ug/L		88
21) Methyl Acetate	2.434	43	251798	49.599	ug/L		83
22) Methylene Chloride	2.520	84	170716	37.477	ug/L	#	71
23) TBA	2.654	59	1077602	1013.306	ug/L		91
24) Acrylonitrile	2.758	53	660738	248.800	ug/L		99
25) Methyl-t-Butyl Ether	2.800	73	574598	49.242	ug/L		86
26) trans-1,2-Dichloroethene	2.782	96	164373	48.636	ug/L	#	78
27) 1,1-Diclethane	3.245	63	341798	49.042	ug/L		98
28) Vinyl Acetate	3.331	86	32718	48.034	ug/L	#	1
29) DIPE	3.361	45	594998	48.356	ug/L		88
30) 2-Chloro-1,3-Butadiene	3.355	53	352679	49.997	ug/L		77
31) ETBE	3.849	59	634723	48.698	ug/L		90
32) 2,2-Dichloropropane	4.007	77	246065	56.126	ug/L		99
33) cis-1,2-Dichloroethene	4.019	96	189791	48.997	ug/L	#	78
34) 2-Butanone	4.080	43	176436	50.824	ug/L		83
35) Propionitrile	4.160	54	293565	247.526	ug/L		99
36) Bromochloromethane	4.385	130	125853	49.008	ug/L	#	74
37) Methacrylonitrile	4.397	67	111431	50.402	ug/L	#	48
38) Tetrahydrofuran	4.477	42	108500	49.002	ug/L	#	70
39) Chloroform	4.550	83	306222	47.266	ug/L		96
40) 1,1,1-Trichloroethane	4.830	97	282826	54.390	ug/L		95

1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4586.D
Acq On : 31 Jul 2024 05:37 pm
Operator : K.Ruest
Sample : 50ppb
Misc : 8260/624 ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 31 19:25:23 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) TAME	5.763	73	490781	48.818	ug/L		86
43) Cyclohexane	4.910	41	168527	46.084	ug/L		93
45) Carbontetrachloride	5.129	117	246914	49.994	ug/L		98
46) 1,1-Dichloropropene	5.147	75	212597	46.610	ug/L		98
48) Benzene	5.495	78	633311	47.938	ug/L		86
49) 1,2-Dichloroethane	5.550	62	313528	47.338	ug/L		94
50) Iso-Butyl Alcohol	5.562	43	342908	1075.213	ug/L		96
51) n-Heptane	6.025	43	229735	46.171	ug/L	#	77
52) 1-Butanol	6.586	56	628129	3005.110	ug/L		86
53) Trichloroethene	6.507	130	192241	48.805	ug/L		98
54) Methylcyclohexane	6.751	55	270904	48.741	ug/L	#	73
55) 1,2-Diclpropane	6.806	63	193800	48.191	ug/L		95
56) Dibromomethane	6.952	93	123812	49.095	ug/L		93
57) 1,4-Dioxane	7.037	88	85881	1009.808	ug/L		87
58) Methyl Methacrylate	7.062	69	166677	49.603	ug/L	#	66
59) Bromodichloromethane	7.196	83	236724	49.966	ug/L		99
60) 2-Nitropropane	7.501	41	182268	107.643	ug/L		95
61) 2-Chloroethylvinyl Ether	7.623	63	64685	49.800	ug/L		93
62) cis-1,3-Dichloropropene	7.757	75	276676	51.276	ug/L		99
63) 4-Methyl-2-pentanone	7.976	43	320288	50.842	ug/L		87
65) Toluene	8.122	91	712947	47.274	ug/L		98
66) trans-1,3-Dichloropropene	8.415	75	267376	51.595	ug/L		99
67) Ethyl Methacrylate	8.561	69	289033	49.794	ug/L	#	63
68) 1,1,2-Trichloroethane	8.604	97	177581	48.863	ug/L		99
71) Tetrachloroethene	8.726	164	130261	47.266	ug/L		97
72) 2-Hexanone	8.909	43	251229	51.000	ug/L		84
73) 1,3-Dichloropropane	8.775	76	289111	47.948	ug/L	#	79
74) Dibromochloromethane	9.000	129	200643	51.544	ug/L		98
75) N-Butyl Acetate	9.073	43	479359	50.749	ug/L		90
76) 1,2-Dibromoethane	9.098	107	197658	49.537	ug/L		99
77) 3-Chlorobenzotrifluoride	9.634	180	208214	45.850	ug/L		92
78) Chlorobenzene	9.604	112	484837	46.296	ug/L		98
79) 4-Chlorobenzotrifluoride	9.689	180	190081	45.177	ug/L		94
80) 1,1,1,2-Tetrachloroethane	9.695	131	189183	50.136	ug/L		99
81) Ethylbenzene	9.726	106	254369	48.308	ug/L		99
82) (m+p)Xylene	9.842	106	635191	97.993	ug/L		98
83) o-Xylene	10.201	106	316753	49.064	ug/L		94
84) Styrene	10.220	104	547558	50.421	ug/L		98
85) Bromoform	10.366	173	121756	55.302	ug/L		100
86) 2-Chlorobenzotrifluoride	10.457	180	210069	45.654	ug/L		95
87) Isopropylbenzene	10.543	105	825023	49.846	ug/L		99
88) Cyclohexanone	10.610	55	1297717	1061.291	ug/L		95
89) trans-1,4-Dichloro-2-B...	10.860	53	119212	51.040	ug/L		84
91) 1,1,2,2-Tetrachloroethane	10.811	83	267208	45.720	ug/L		99
92) Bromobenzene	10.780	156	201638	45.265	ug/L	#	88
93) 1,2,3-Trichloropropane	10.835	110	98978	46.703	ug/L		90
94) n-Propylbenzene	10.902	91	942226	46.563	ug/L		99
95) 2-Chlorotoluene	10.957	91	575711	45.239	ug/L		99
96) 3-Chlorotoluene	11.012	91	572851	44.492	ug/L		97
97) 4-Chlorotoluene	11.055	91	668527	45.672	ug/L		98
98) 1,3,5-Trimethylbenzene	11.055	105	723140	47.185	ug/L		98
99) tert-Butylbenzene	11.329	119	606750	46.388	ug/L		99
100) 1,2,4-Trimethylbenzene	11.366	105	725485	46.694	ug/L		98
101) 3,4-Dichlorobenzotrifl...	11.433	214	149527	44.319	ug/L		94
102) sec-Butylbenzene	11.512	105	857119	46.800	ug/L		99
103) p-Isopropyltoluene	11.634	119	778252	48.319	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4586.D
Acq On : 31 Jul 2024 05:37 pm
Operator : K.Ruest
Sample : 50ppb
Misc : 8260/624 ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 31 19:25:23 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

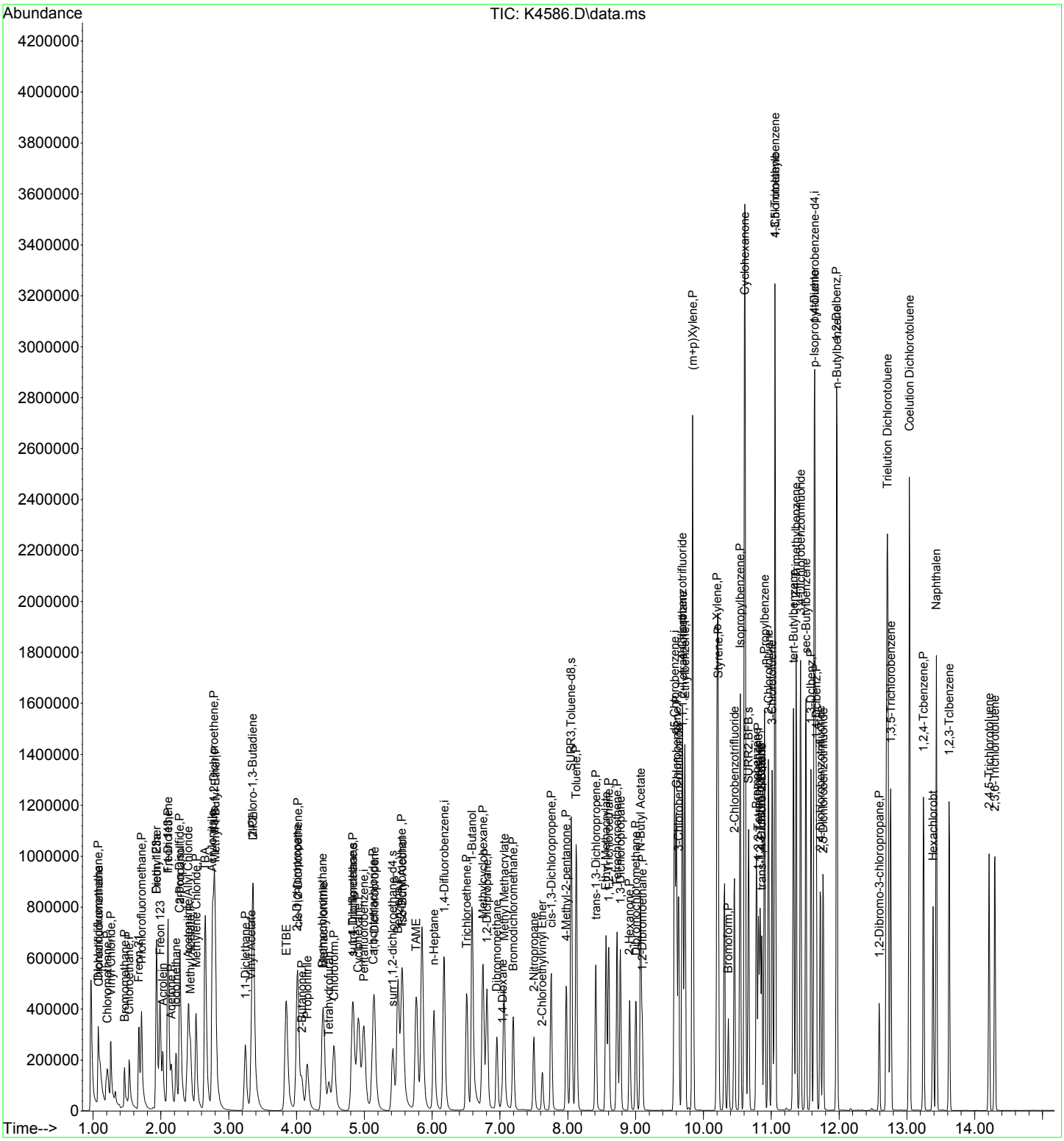
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.585	146	393453	46.117	ug/L	98
105) 1,4-Dclbenz	11.664	146	399058	46.325	ug/L	97
106) 2,4-Dichlorobenzotrifl...	11.725	214	133648	44.985	ug/L	96
107) 2,5-Dichlorobenzotrifl...	11.768	214	149097	45.021	ug/L	99
108) n-Butylbenzene	11.969	91	669613	47.740	ug/L	98
109) 1,2-Dclbenz	11.963	146	392551	46.602	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.591	157	77380	55.649	ug/L	95
111) Trielution Dichlorotol...	12.713	125	1109179	139.703	ug/L	96
112) 1,3,5-Trichlorobenzene	12.762	180	253317	46.024	ug/L	98
113) Coelution Dichlorotoluene	13.036	125	797609	93.395	ug/L	95
114) 1,2,4-Tcbenzene	13.243	180	257284	48.210	ug/L	95
115) Hexachlorobt	13.384	225	91072	46.358	ug/L	97
116) Naphthalen	13.432	128	1014693	50.278	ug/L	99
117) 1,2,3-Tclbenzene	13.621	180	250571	47.644	ug/L	97
118) 2,4,5-Trichlorotoluene	14.213	159	198384	47.353	ug/L	95
119) 2,3,6-Trichlorotoluene	14.298	159	190326	49.103	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4586.D
Acq On : 31 Jul 2024 05:37 pm
Operator : K.Ruest
Sample : 50ppb
Misc : 8260/624 ICAL
ALS Vial : 6 Sample Multiplier: 1

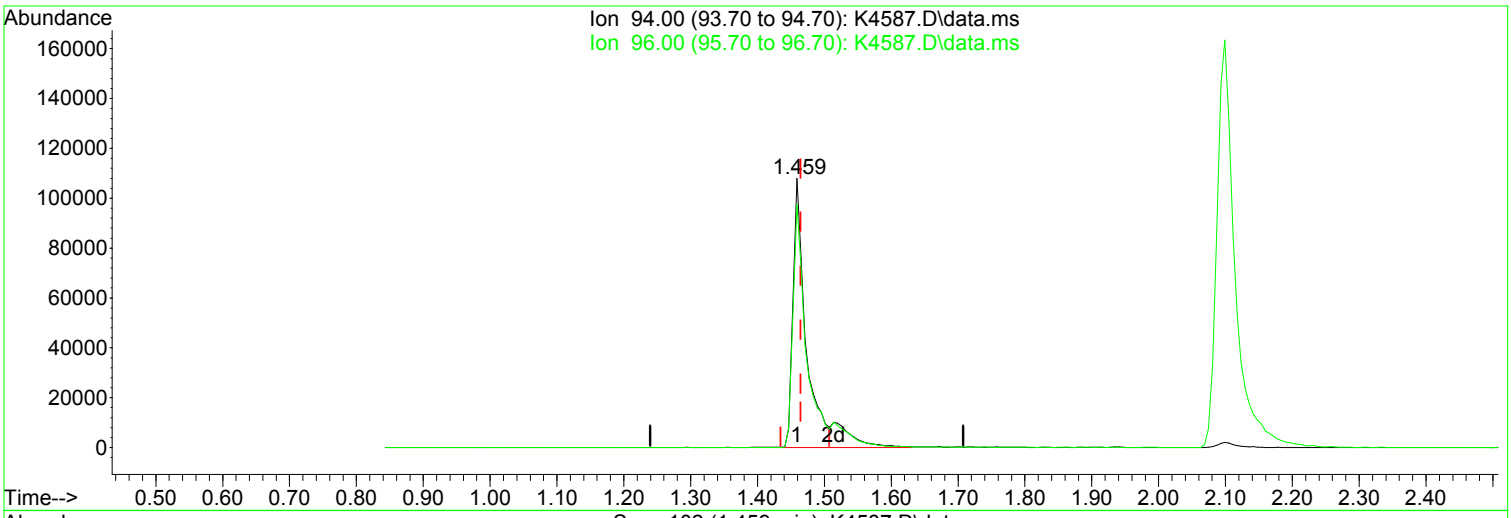
Quant Time: Jul 31 19:25:23 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

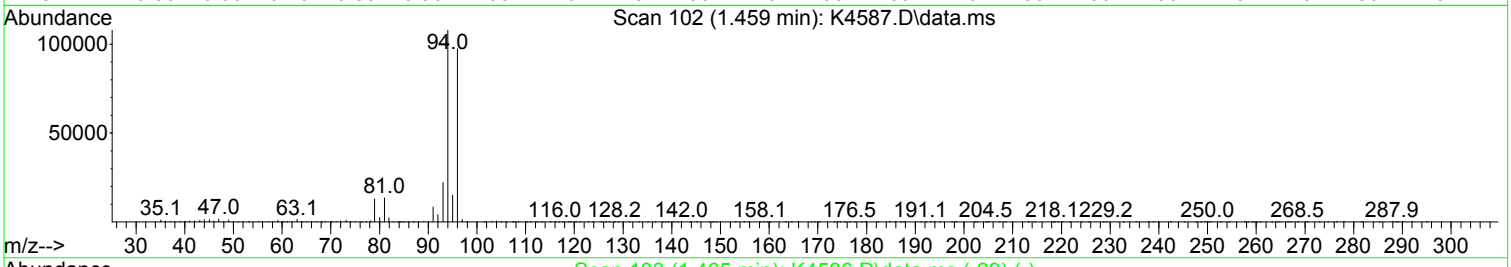


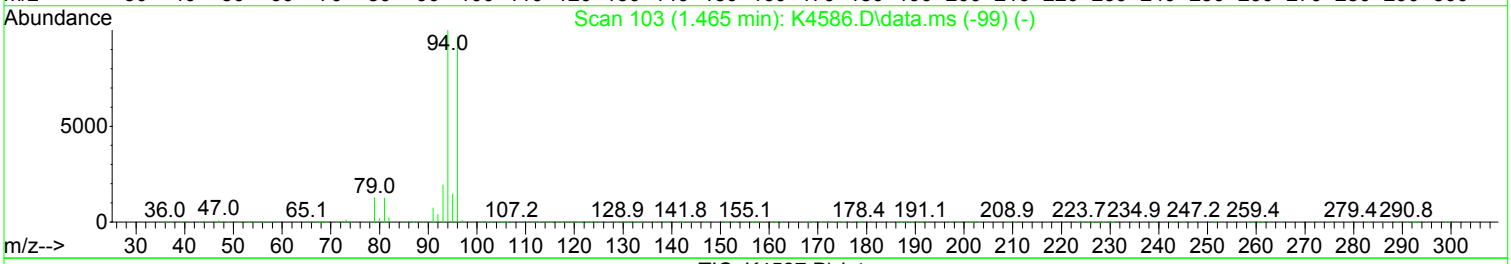
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4587.D
Acq On : 31 Jul 2024 06:02 pm
Operator : K.Ruest
Sample : 100ppb
Misc : 8260/624 ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 31 19:25:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4587.D\data.ms

(6) Bromomethane (P)

1.459min (-0.006) 85.65 ug/L m

response 165103

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	95.80	90.31
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

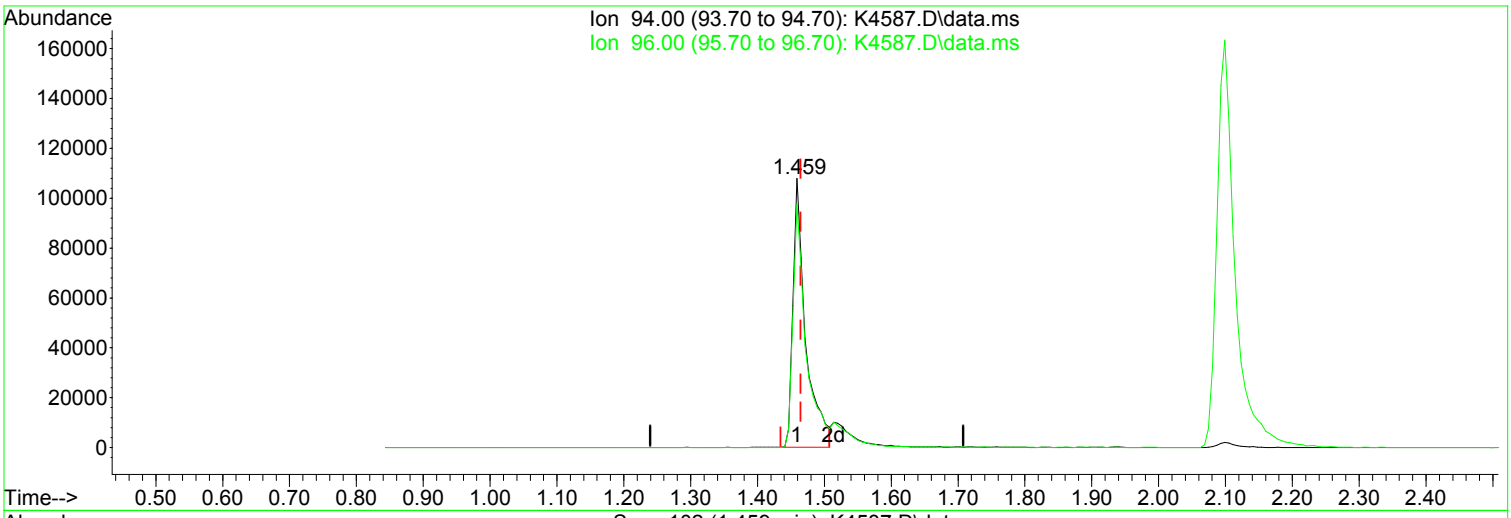
Split Peak.

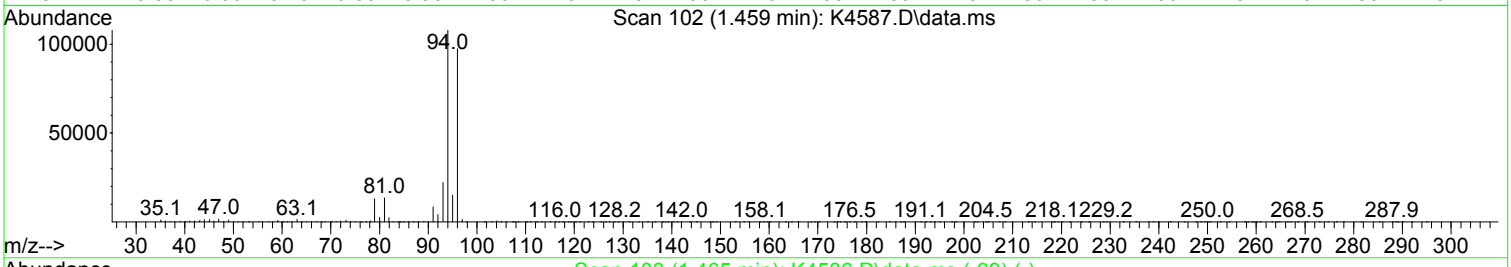
08/01/24

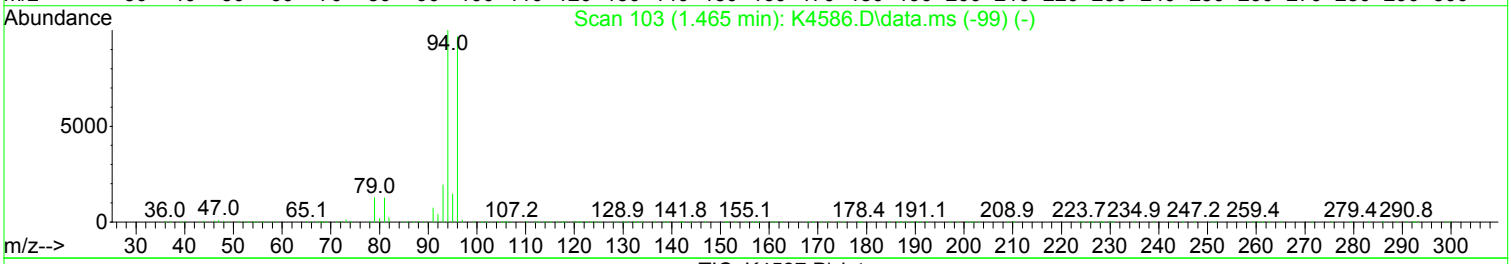
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4587.D
Acq On : 31 Jul 2024 06:02 pm
Operator : K.Ruest
Sample : 100ppb
Misc : 8260/624 ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 31 19:25:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4587.D\data.ms

(6) Bromomethane (P)

1.459min (-0.006) 73.75 ug/L

response 142167

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	95.80	90.31
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

08/01/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4587.D
Acq On : 31 Jul 2024 06:02 pm
Operator : K.Ruest
Sample : 100ppb
Misc : 8260/624 ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 31 19:25:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.989	168	357137	50.00	ug/L		0.00
42) 1,4-Difluorobenzene	6.172	114	608684	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.573	117	568337	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.646	152	279728	50.00	ug/L		0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.830	113	397765	104.76	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 209.52%#				
47) surr1,1,2-dichloroetha...	5.416	65	531481	102.41	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 204.82%#				
64) SURR3,Toluene-d8	8.049	98	1411833	101.33	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 202.66%#				
69) SURR2,BFB	10.665	95	552535	100.86	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 201.72%#				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.081	51	470840	96.879	ug/L		90
3) Dichlorodifluoromethane	1.075	85	484645	116.181	ug/L		96
4) Chloromethane	1.209	50	499691	106.640	ug/L		98
5) Vinyl Chloride	1.258	62	504429	104.345	ug/L		96
6) Bromomethane	1.459	94	165103m	85.654	ug/L		
7) Chloroethane	1.526	64	320012	104.426	ug/L		95
8) Freon 21	1.672	67	635695	97.517	ug/L		98
9) Trichlorofluoromethane	1.709	101	535515	99.608	ug/L		99
10) Diethyl Ether	1.928	59	386603	99.905	ug/L		82
11) Freon 123a	1.935	67	330322	86.158	ug/L		91
12) Freon 123	1.983	83	438145	100.115	ug/L		100
13) Acrolein	2.026	56	341137	604.678	ug/L		98
14) 1,1-Diclethene	2.099	96	310726	102.644	ug/L	#	83
15) Freon 113	2.105	101	307715	98.853	ug/L		98
16) Acetone	2.154	43	283335	99.118	ug/L		93
17) 2-Propanol	2.288	45	1196598	2122.579	ug/L		96
18) Iodomethane	2.221	142	501306	106.197	ug/L		100
19) Carbon Disulfide	2.270	76	811857	108.930	ug/L		99
20) Acetonitrile/Allyl Chl...	2.404	41	957474	636.553	ug/L		86
21) Methyl Acetate	2.434	43	498090	99.855	ug/L		86
22) Methylene Chloride	2.514	84	339077	75.758	ug/L	#	68
23) TBA	2.660	59	2300828	2201.950	ug/L		93
24) Acrylonitrile	2.758	53	1356473	519.845	ug/L		100
25) Methyl-t-Butyl Ether	2.794	73	1168377	101.904	ug/L		88
26) trans-1,2-Dichloroethene	2.782	96	337400	101.604	ug/L	#	79
27) 1,1-Diclethane	3.239	63	696079	101.647	ug/L		98
28) Vinyl Acetate	3.331	86	81591	121.912	ug/L	#	1
29) DIPE	3.361	45	1215057	100.502	ug/L		85
30) 2-Chloro-1,3-Butadiene	3.349	53	699704	100.953	ug/L		79
31) ETBE	3.849	59	1292025	100.888	ug/L		91
32) 2,2-Dichloropropane	4.007	77	515824	119.744	ug/L		98
33) cis-1,2-Dichloroethene	4.013	96	385929	101.402	ug/L	#	76
34) 2-Butanone	4.074	43	350602	102.786	ug/L		84
35) Propionitrile	4.160	54	619261	531.413	ug/L		100
36) Bromochloromethane	4.379	130	256591	101.693	ug/L	#	73
37) Methacrylonitrile	4.404	67	230712	106.207	ug/L	#	48
38) Tetrahydrofuran	4.477	42	224310	103.103	ug/L	#	71
39) Chloroform	4.550	83	624989	98.181	ug/L		96
40) 1,1,1-Trichloroethane	4.824	97	573760	112.297	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4587.D
Acq On : 31 Jul 2024 06:02 pm
Operator : K.Ruest
Sample : 100ppb
Misc : 8260/624 ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 31 19:25:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) TAME	5.763	73	1004328	101.674	ug/L		88
43) Cyclohexane	4.910	41	332128	92.676	ug/L		91
45) Carbontetrachloride	5.129	117	501346	103.584	ug/L		98
46) 1,1-Dichloropropene	5.141	75	433110	96.895	ug/L		98
48) Benzene	5.495	78	1290813	99.703	ug/L		86
49) 1,2-Dichloroethane	5.544	62	634258	97.719	ug/L		94
50) Iso-Butyl Alcohol	5.568	43	748366	2394.484	ug/L		99
51) n-Heptane	6.025	43	476356	97.691	ug/L	#	77
52) 1-Butanol	6.598	56	1338289	6533.445	ug/L		88
53) Trichloroethene	6.507	130	387538	100.395	ug/L		98
54) Methylcyclohexane	6.745	55	528091	96.955	ug/L	#	76
55) 1,2-Diclpropane	6.806	63	391944	99.453	ug/L		97
56) Dibromomethane	6.952	93	253727	102.664	ug/L		95
57) 1,4-Dioxane	7.037	88	178721	2144.363	ug/L		80
58) Methyl Methacrylate	7.062	69	348324	105.778	ug/L	#	65
59) Bromodichloromethane	7.196	83	489492	105.429	ug/L		99
60) 2-Nitropropane	7.501	41	387956	233.798	ug/L		93
61) 2-Chloroethylvinyl Ether	7.622	63	127025	99.792	ug/L		92
62) cis-1,3-Dichloropropene	7.751	75	576766	109.075	ug/L		99
63) 4-Methyl-2-pentanone	7.976	43	635432	102.927	ug/L		88
65) Toluene	8.122	91	1434313	97.049	ug/L		98
66) trans-1,3-Dichloropropene	8.409	75	556593	109.598	ug/L		98
67) Ethyl Methacrylate	8.561	69	610480	107.321	ug/L	#	64
68) 1,1,2-Trichloroethane	8.604	97	361155	101.406	ug/L		98
71) Tetrachloroethene	8.726	164	267049	95.288	ug/L		95
72) 2-Hexanone	8.909	43	509844	101.779	ug/L		88
73) 1,3-Dichloropropane	8.775	76	579140	94.452	ug/L	#	79
74) Dibromochloromethane	9.000	129	427487	107.992	ug/L		99
75) N-Butyl Acetate	9.073	43	956258	99.553	ug/L		90
76) 1,2-Dibromoethane	9.098	107	403027	99.327	ug/L		100
77) 3-Chlorobenzotrifluoride	9.634	180	440940	95.483	ug/L		93
78) Chlorobenzene	9.598	112	991966	93.145	ug/L		96
79) 4-Chlorobenzotrifluoride	9.689	180	404181	94.465	ug/L		96
80) 1,1,1,2-Tetrachloroethane	9.695	131	395392	103.042	ug/L		96
81) Ethylbenzene	9.726	106	523577	97.780	ug/L		96
82) (m+p)Xylene	9.842	106	1274226	193.310	ug/L		100
83) o-Xylene	10.201	106	643665	98.044	ug/L		97
84) Styrene	10.220	104	1137229	102.979	ug/L		97
85) Bromoform	10.366	173	270865	120.983	ug/L		100
86) 2-Chlorobenzotrifluoride	10.457	180	448671	95.888	ug/L		95
87) Isopropylbenzene	10.543	105	1668331	99.121	ug/L		100
88) Cyclohexanone	10.610	55	2681676	2156.642	ug/L		95
89) trans-1,4-Dichloro-2-B...	10.860	53	259868	109.411	ug/L		86
91) 1,1,2,2-Tetrachloroethane	10.811	83	563520	96.254	ug/L		99
92) Bromobenzene	10.780	156	416057	93.240	ug/L	#	89
93) 1,2,3-Trichloropropane	10.835	110	204015	96.100	ug/L	#	89
94) n-Propylbenzene	10.902	91	1904835	93.972	ug/L		100
95) 2-Chlorotoluene	10.957	91	1173741	92.074	ug/L		99
96) 3-Chlorotoluene	11.012	91	1193475	92.536	ug/L		97
97) 4-Chlorotoluene	11.055	91	1361017	92.821	ug/L		98
98) 1,3,5-Trimethylbenzene	11.055	105	1446319	94.211	ug/L		99
99) tert-Butylbenzene	11.329	119	1241764	94.774	ug/L		98
100) 1,2,4-Trimethylbenzene	11.366	105	1488520	95.641	ug/L		98
101) 3,4-Dichlorobenzotrifl...	11.433	214	311554	92.185	ug/L		97
102) sec-Butylbenzene	11.512	105	1748618	95.313	ug/L		98
103) p-Isopropyltoluene	11.634	119	1539032	95.391	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4587.D
Acq On : 31 Jul 2024 06:02 pm
Operator : K.Ruest
Sample : 100ppb
Misc : 8260/624 ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 31 19:25:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

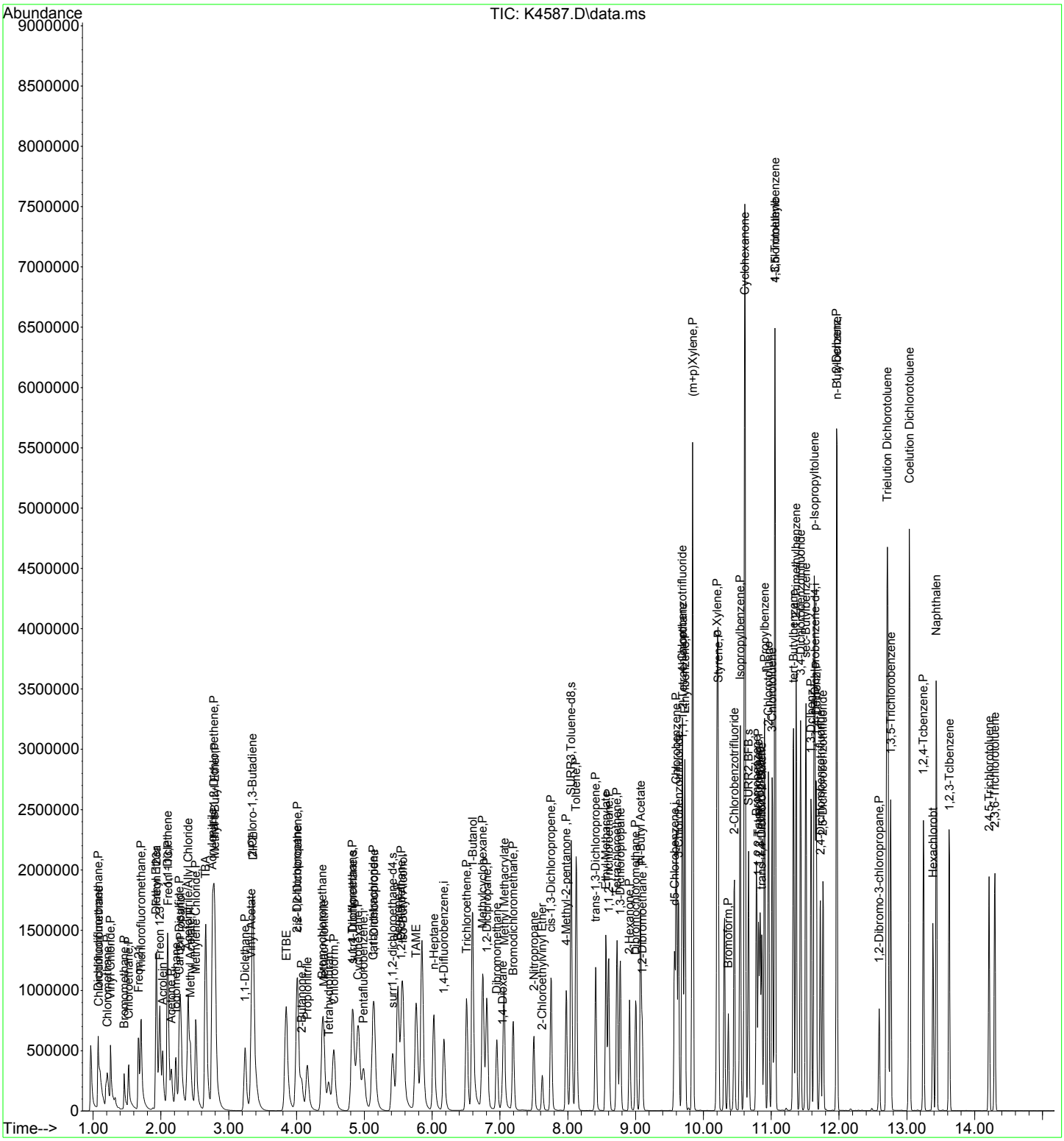
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.585	146	817006	95.599	ug/L	98
105) 1,4-Dclbenz	11.664	146	809191	93.776	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.725	214	276717	92.981	ug/L	96
107) 2,5-Dichlorobenzotrifl...	11.762	214	312122	94.087	ug/L	95
108) n-Butylbenzene	11.969	91	1344541	95.694	ug/L	98
109) 1,2-Dclbenz	11.963	146	806688	95.603	ug/L	97
110) 1,2-Dibromo-3-chloropr...	12.591	157	165008	118.465	ug/L	94
111) Trielution Dichlorotol...	12.713	125	2213886	278.365	ug/L	97
112) 1,3,5-Trichlorobenzene	12.762	180	506876	91.935	ug/L	99
113) Coelution Dichlorotoluene	13.036	125	1599194	186.935	ug/L	97
114) 1,2,4-Tcbenzene	13.243	180	508057	95.037	ug/L	96
115) Hexachlorobt	13.384	225	181615	92.289	ug/L	97
116) Naphthalen	13.432	128	2029659	100.397	ug/L	99
117) 1,2,3-Tclbenzene	13.628	180	498131	94.552	ug/L	99
118) 2,4,5-Trichlorotoluene	14.213	159	388837	92.654	ug/L	99
119) 2,3,6-Trichlorotoluene	14.298	159	370240	95.356	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4587.D
Acq On : 31 Jul 2024 06:02 pm
Operator : K.Ruest
Sample : 100ppb
Misc : 8260/624 ICAL
ALS Vial : 7 Sample Multiplier: 1

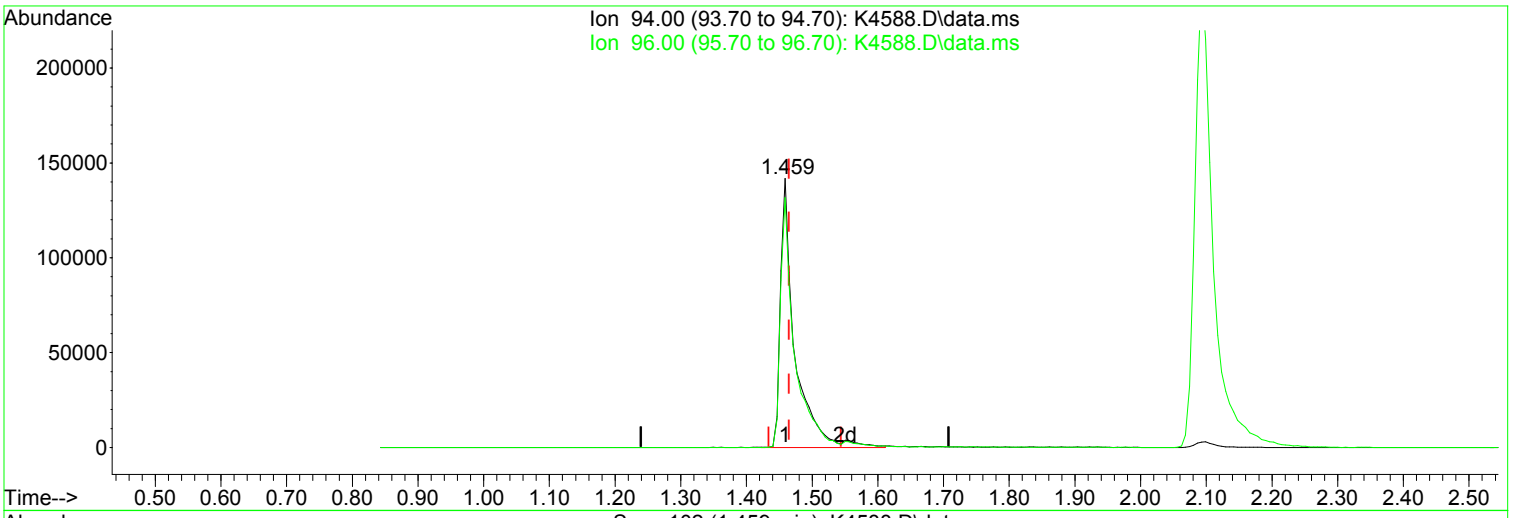
Quant Time: Jul 31 19:25:28 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

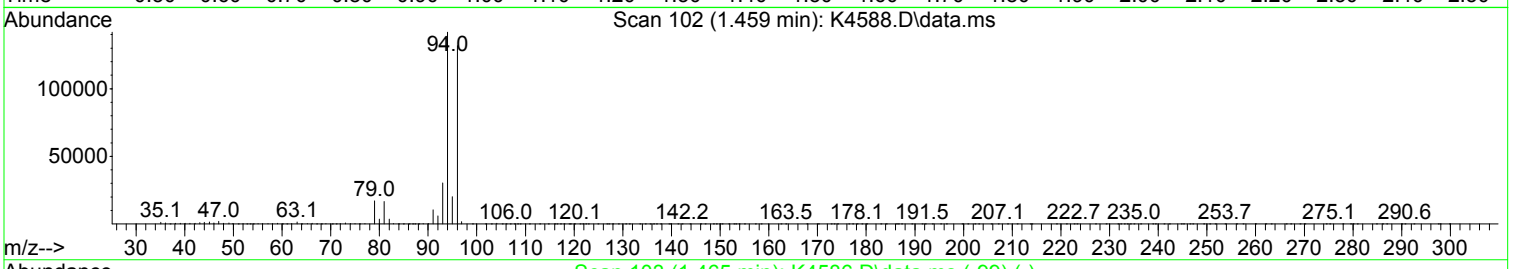


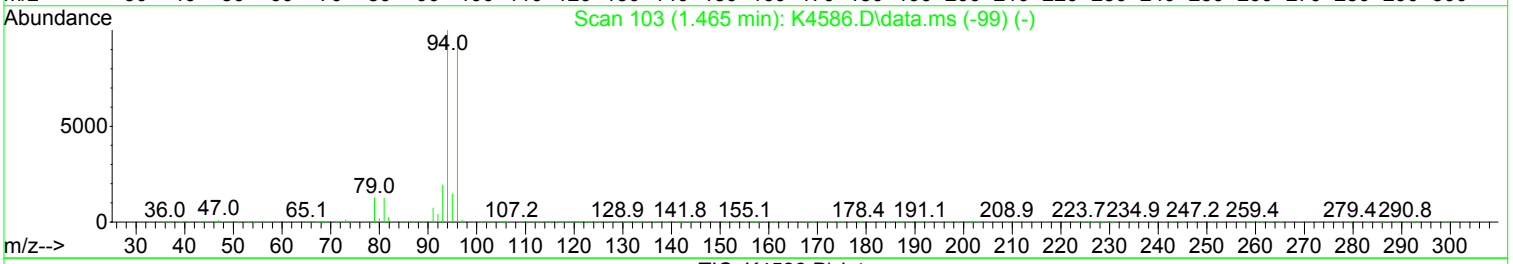
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4588.D
Acq On : 31 Jul 2024 06:27 pm
Operator : K.Ruest
Sample : 150ppb
Misc : 8260/624 ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 31 19:25:33 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4588.D\data.ms

(6) Bromomethane (P)

1.459min (-0.006) 112.75 ug/L m

response 217207

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	95.80	92.91
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

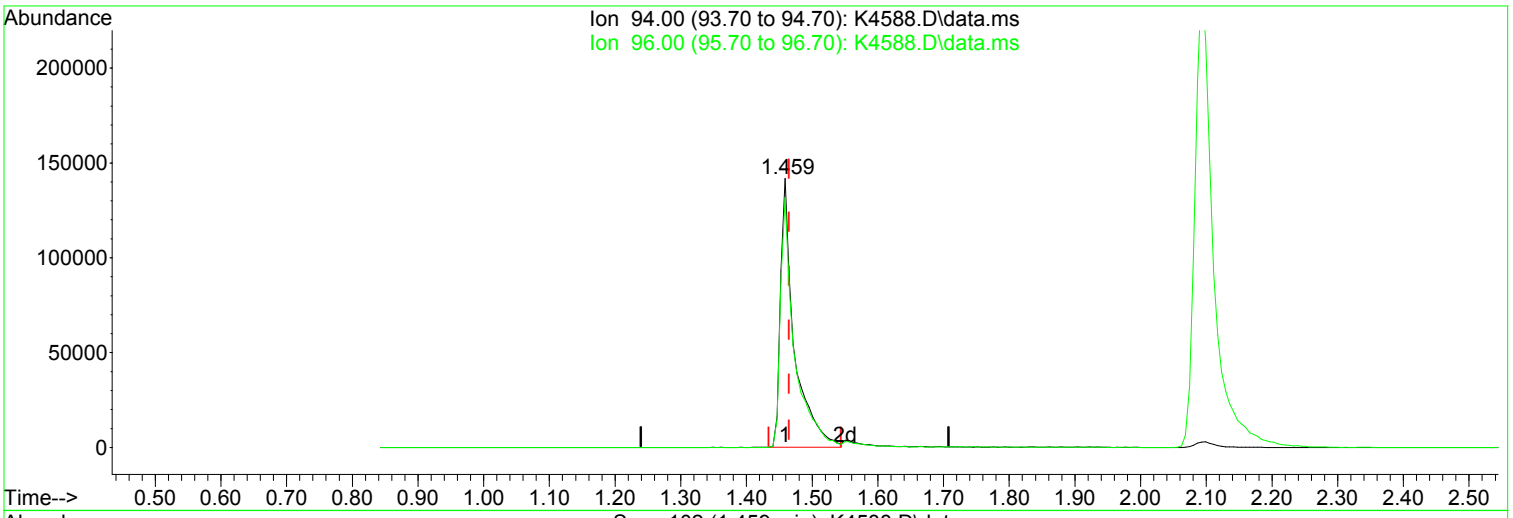
Poor integration.

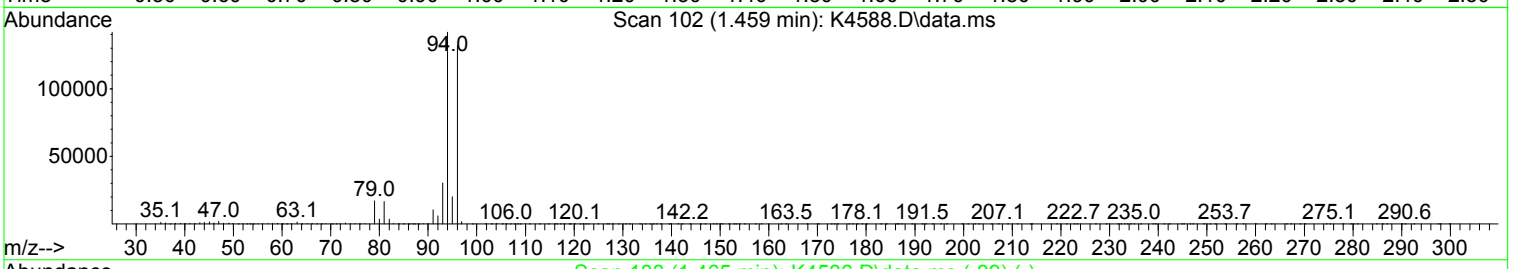
08/01/24

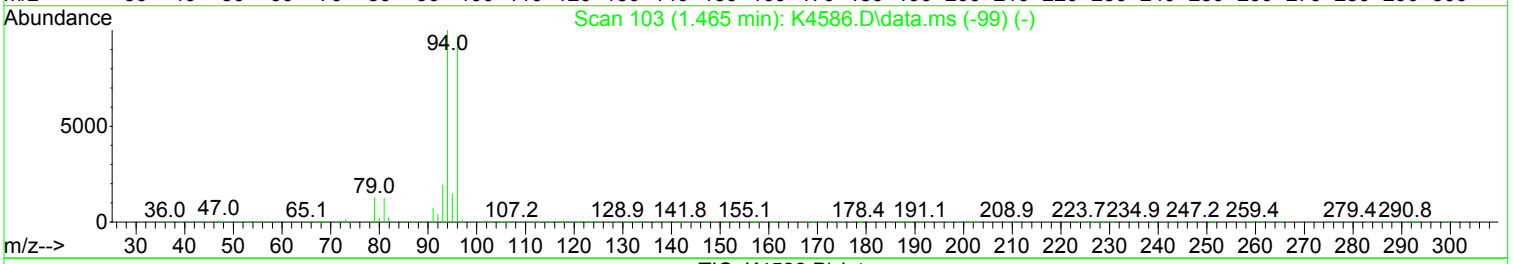
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4588.D
Acq On : 31 Jul 2024 06:27 pm
Operator : K.Ruest
Sample : 150ppb
Misc : 8260/624 ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 31 19:25:33 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4588.D\data.ms

(6) Bromomethane (P)

1.459min (-0.006) 108.09 ug/L

response 208237

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	95.80	92.91
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

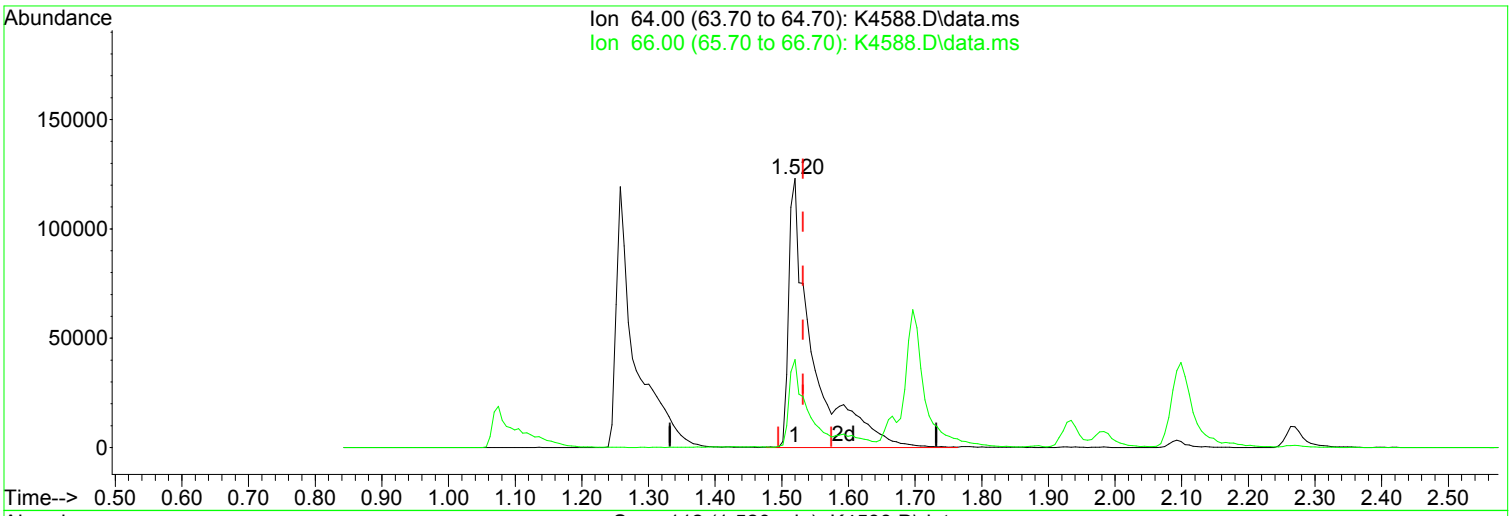
Before

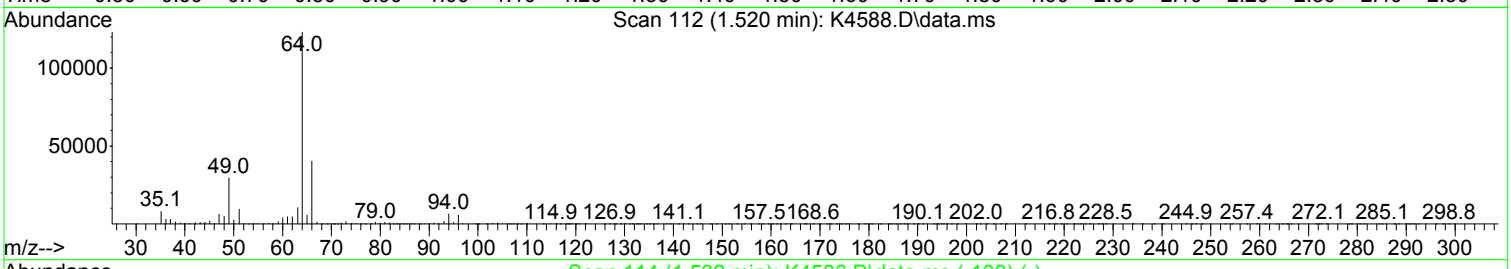
08/01/24

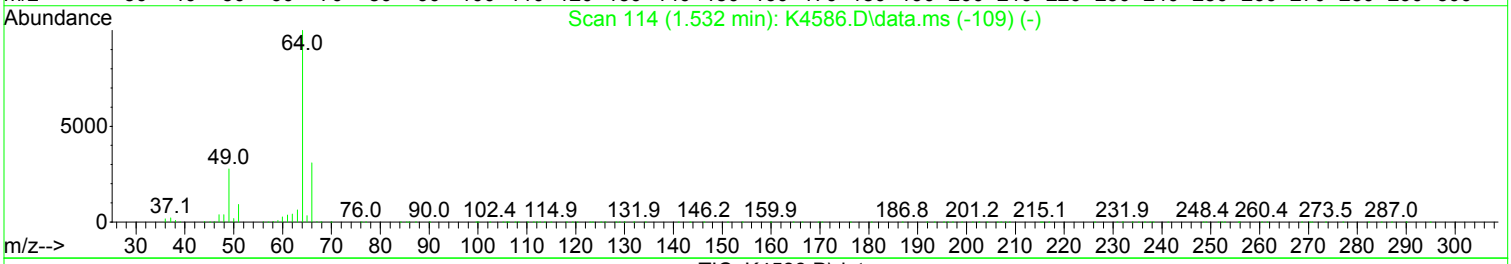
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4588.D
Acq On : 31 Jul 2024 06:27 pm
Operator : K.Ruest
Sample : 150ppb
Misc : 8260/624 ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 31 19:25:33 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4588.D\data.ms

(7) Chloroethane (P)

1.520min (-0.013) 99.53 ug/L m

response 304826

Ion	Exp%	Act%
64.00	100.00	100.00
66.00	33.50	32.66
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

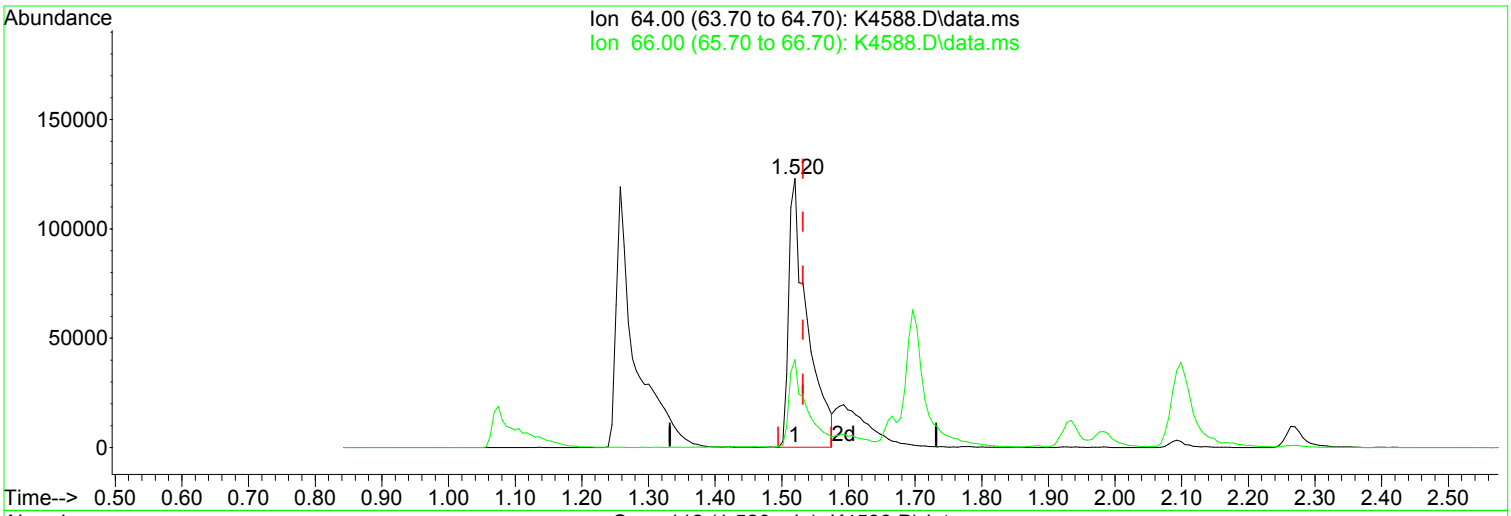
Poor integration.

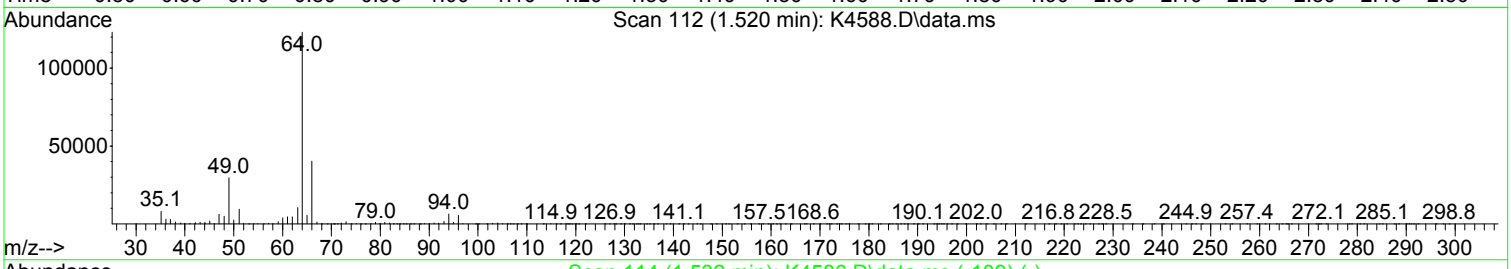
08/01/24

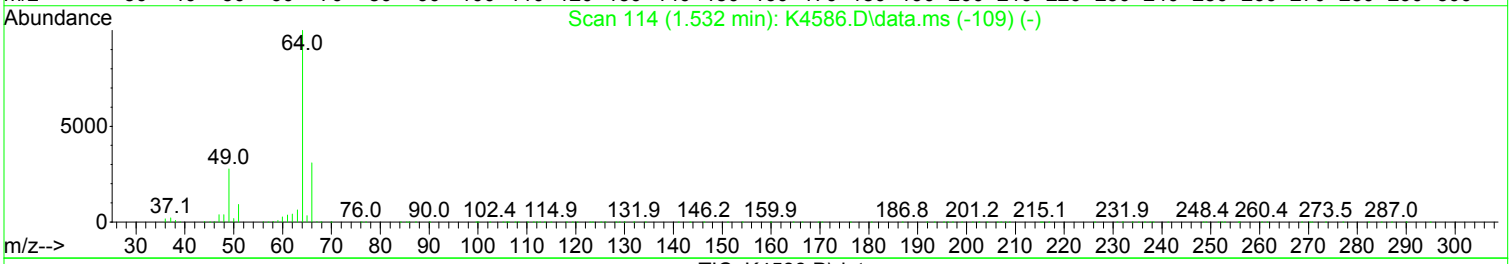
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4588.D
Acq On : 31 Jul 2024 06:27 pm
Operator : K.Ruest
Sample : 150ppb
Misc : 8260/624 ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 31 19:25:33 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4588.D\data.ms

(7) Chloroethane (P)

1.520min (-0.013) 76.58 ug/L

response 234539

Ion	Exp%	Act%
64.00	100.00	100.00
66.00	33.50	32.66
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

08/01/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4588.D
Acq On : 31 Jul 2024 06:27 pm
Operator : K.Ruest
Sample : 150ppb
Misc : 8260/624 ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 31 19:25:33 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.989	168	356931	50.00	ug/L		0.00
42) 1,4-Difluorobenzene	6.171	114	609972	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.573	117	572288	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.646	152	287490	50.00	ug/L		0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.830	113	760301	199.82	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 399.64%#				
47) surr1,1,2-dichloroetha...	5.415	65	1003635	192.98	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 385.96%#				
64) SURR3,Toluene-d8	8.049	98	2726360	195.26	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 390.52%#				
69) SURR2,BFB	10.664	95	1094148	199.30	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 398.60%#				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.081	51	758346	156.126	ug/L		90
3) Dichlorodifluoromethane	1.069	85	799649	191.806	ug/L		94
4) Chloromethane	1.209	50	752362	160.656	ug/L		99
5) Vinyl Chloride	1.258	62	781550	161.763	ug/L		96
6) Bromomethane	1.459	94	217207m	112.750	ug/L		
7) Chloroethane	1.520	64	304826m	99.528	ug/L		
8) Freon 21	1.666	67	965544	148.202	ug/L		99
9) Trichlorofluoromethane	1.696	101	817151	152.082	ug/L		98
10) Diethyl Ether	1.928	59	557122	144.054	ug/L		82
11) Freon 123a	1.934	67	541200	141.244	ug/L		92
12) Freon 123	1.983	83	706773	161.589	ug/L		98
13) Acrolein	2.026	56	504361	894.514	ug/L		100
14) 1,1-Diclethene	2.093	96	472532	156.185	ug/L	#	79
15) Freon 113	2.099	101	507136	163.011	ug/L		98
16) Acetone	2.154	43	400924	140.334	ug/L		92
17) 2-Propanol	2.306	45	1775878	3151.950	ug/L		95
18) Iodomethane	2.215	142	723611	153.379	ug/L		97
19) Carbon Disulfide	2.270	76	1289018	173.052	ug/L		100
20) Acetonitrile/Allyl Chl...	2.398	41	1332587	886.449	ug/L		80
21) Methyl Acetate	2.434	43	735492	147.534	ug/L		85
22) Methylene Chloride	2.513	84	496191	110.925	ug/L	#	70
23) TBA	2.672	59	3268483	3129.825	ug/L		94
24) Acrylonitrile	2.763	53	1930925	740.421	ug/L		99
25) Methyl-t-Butyl Ether	2.800	73	1652471	144.209	ug/L		87
26) trans-1,2-Dichloroethene	2.782	96	504039	151.873	ug/L	#	85
27) 1,1-Diclethane	3.239	63	1020097	149.049	ug/L		97
28) Vinyl Acetate	3.330	86	112676	168.456	ug/L	#	1
29) DIPE	3.361	45	1776563	147.031	ug/L		85
30) 2-Chloro-1,3-Butadiene	3.349	53	1074562	155.126	ug/L		82
31) ETBE	3.849	59	1893870	147.969	ug/L		91
32) 2,2-Dichloropropane	4.007	77	762384	177.083	ug/L		96
33) cis-1,2-Dichloroethene	4.013	96	562420	147.860	ug/L	#	76
34) 2-Butanone	4.074	43	506702	148.636	ug/L		83
35) Propionitrile	4.159	54	895058	768.528	ug/L		98
36) Bromochloromethane	4.379	130	371057	147.143	ug/L	#	72
37) Methacrylonitrile	4.403	67	330500	152.232	ug/L	#	49
38) Tetrahydrofuran	4.476	42	315675	145.182	ug/L		74
39) Chloroform	4.550	83	904687	142.201	ug/L		96
40) 1,1,1-Trichloroethane	4.824	97	874249	171.208	ug/L		96

1st 08/01/24
2nd 08/01/24

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4588.D
Acq On : 31 Jul 2024 06:27 pm
Operator : K.Ruest
Sample : 150ppb
Misc : 8260/624 ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 31 19:25:33 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) TAME	5.763	73	1473525	149.259	ug/L		88
43) Cyclohexane	4.903	41	549427	152.987	ug/L		89
45) Carbontetrachloride	5.123	117	772058	159.179	ug/L		98
46) 1,1-Dichloropropene	5.141	75	662028	147.796	ug/L		98
48) Benzene	5.495	78	1887043	145.448	ug/L		86
49) 1,2-Dichloroethane	5.549	62	887846	136.500	ug/L		94
50) Iso-Butyl Alcohol	5.580	43	1056112	3372.018	ug/L		100
51) n-Heptane	6.025	43	786356	160.926	ug/L	#	79
52) 1-Butanol	6.604	56	1937641	9439.471	ug/L		88
53) Trichloroethene	6.507	130	586953	151.734	ug/L		99
54) Methylcyclohexane	6.744	55	888188	162.723	ug/L	#	74
55) 1,2-Diclpropane	6.805	63	569439	144.186	ug/L		95
56) Dibromomethane	6.952	93	357791	144.465	ug/L		97
57) 1,4-Dioxane	7.043	88	253309	3032.881	ug/L		86
58) Methyl Methacrylate	7.061	69	499062	151.234	ug/L	#	68
59) Bromodichloromethane	7.196	83	709402	152.472	ug/L		99
60) 2-Nitropropane	7.500	41	555056	333.792	ug/L		91
61) 2-Chloroethylvinyl Ether	7.622	63	184016	144.260	ug/L		89
62) cis-1,3-Dichloropropene	7.756	75	829917	156.618	ug/L		99
63) 4-Methyl-2-pentanone	7.976	43	920577	148.800	ug/L		88
65) Toluene	8.122	91	2091117	141.191	ug/L		97
66) trans-1,3-Dichloropropene	8.409	75	807072	158.584	ug/L		99
67) Ethyl Methacrylate	8.561	69	878930	154.188	ug/L	#	63
68) 1,1,2-Trichloroethane	8.604	97	519497	145.557	ug/L		98
71) Tetrachloroethene	8.726	164	401912	142.420	ug/L		96
72) 2-Hexanone	8.915	43	728214	144.368	ug/L		88
73) 1,3-Dichloropropane	8.774	76	829023	134.271	ug/L	#	81
74) Dibromochloromethane	9.000	129	619450	155.406	ug/L		99
75) N-Butyl Acetate	9.073	43	1418383	146.644	ug/L		91
76) 1,2-Dibromoethane	9.098	107	576863	141.188	ug/L		100
77) 3-Chlorobenzotrifluoride	9.634	180	701611	150.882	ug/L		94
78) Chlorobenzene	9.604	112	1448357	135.062	ug/L		99
79) 4-Chlorobenzotrifluoride	9.689	180	627635	145.678	ug/L		96
80) 1,1,1,2-Tetrachloroethane	9.695	131	579777	150.052	ug/L		97
81) Ethylbenzene	9.726	106	776680	144.046	ug/L		96
82) (m+p)Xylene	9.841	106	1858683	280.030	ug/L		98
83) o-Xylene	10.201	106	936423	141.652	ug/L		95
84) Styrene	10.219	104	1650016	148.381	ug/L		97
85) Bromoform	10.366	173	400101	177.472	ug/L		99
86) 2-Chlorobenzotrifluoride	10.457	180	692270	146.928	ug/L		94
87) Isopropylbenzene	10.542	105	2446797	144.368	ug/L		99
88) Cyclohexanone	10.610	55	3626773	2896.566	ug/L		95
89) trans-1,4-Dichloro-2-B...	10.859	53	369268	154.398	ug/L		87
91) 1,1,2,2-Tetrachloroethane	10.811	83	791122	131.482	ug/L		98
92) Bromobenzene	10.786	156	607813	132.535	ug/L		100
93) 1,2,3-Trichloropropane	10.835	110	291512	133.608	ug/L	#	89
94) n-Propylbenzene	10.902	91	2776227	133.262	ug/L		99
95) 2-Chlorotoluene	10.957	91	1697490	129.565	ug/L		99
96) 3-Chlorotoluene	11.018	91	1783019	134.514	ug/L		98
97) 4-Chlorotoluene	11.055	91	1951245	129.482	ug/L		99
98) 1,3,5-Trimethylbenzene	11.055	105	2094831	132.770	ug/L		99
99) tert-Butylbenzene	11.329	119	1830723	135.952	ug/L		99
100) 1,2,4-Trimethylbenzene	11.365	105	2145580	134.137	ug/L		99
101) 3,4-Dichlorobenzotrifl...	11.433	214	475143	136.793	ug/L		98
102) sec-Butylbenzene	11.512	105	2544857	134.969	ug/L		99
103) p-Isopropyltoluene	11.634	119	2244753	135.375	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4588.D
Acq On : 31 Jul 2024 06:27 pm
Operator : K.Ruest
Sample : 150ppb
Misc : 8260/624 ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 31 19:25:33 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

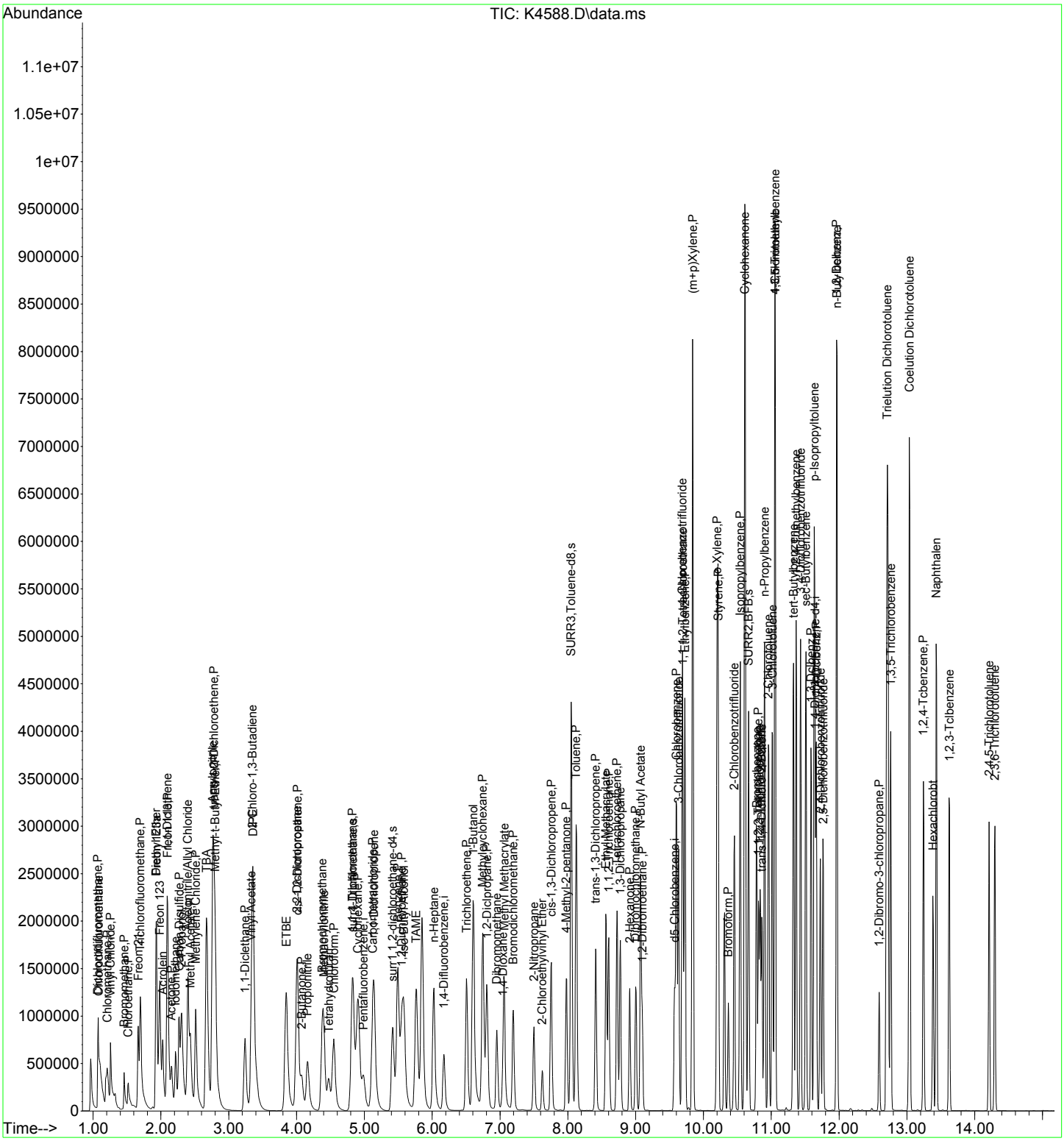
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.585	146	1182015	134.574	ug/L	98
105) 1,4-Dclbenz	11.664	146	1174482	132.434	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.725	214	423778	138.551	ug/L	96
107) 2,5-Dichlorobenzotrifl...	11.768	214	479064	140.512	ug/L	99
108) n-Butylbenzene	11.969	91	1967064	136.221	ug/L	97
109) 1,2-Dclbenz	11.963	146	1158229	133.560	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.591	157	245601	171.564	ug/L	97
111) Trielution Dichlorotol...	12.713	125	3311640	405.149	ug/L	97
112) 1,3,5-Trichlorobenzene	12.762	180	763281	134.703	ug/L	100
113) Coelution Dichlorotoluene	13.036	125	2389219	271.743	ug/L	97
114) 1,2,4-Tcbenzene	13.243	180	748808	136.290	ug/L	97
115) Hexachlorobt	13.383	225	267844	132.432	ug/L	98
116) Naphthalen	13.432	128	2905396	139.835	ug/L	99
117) 1,2,3-Tclbenzene	13.627	180	740060	136.681	ug/L	99
118) 2,4,5-Trichlorotoluene	14.213	159	591171	137.065	ug/L	99
119) 2,3,6-Trichlorotoluene	14.298	159	557914	139.813	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4588.D
Acq On : 31 Jul 2024 06:27 pm
Operator : K.Ruest
Sample : 150ppb
Misc : 8260/624 ICAL
ALS Vial : 8 Sample Multiplier: 1

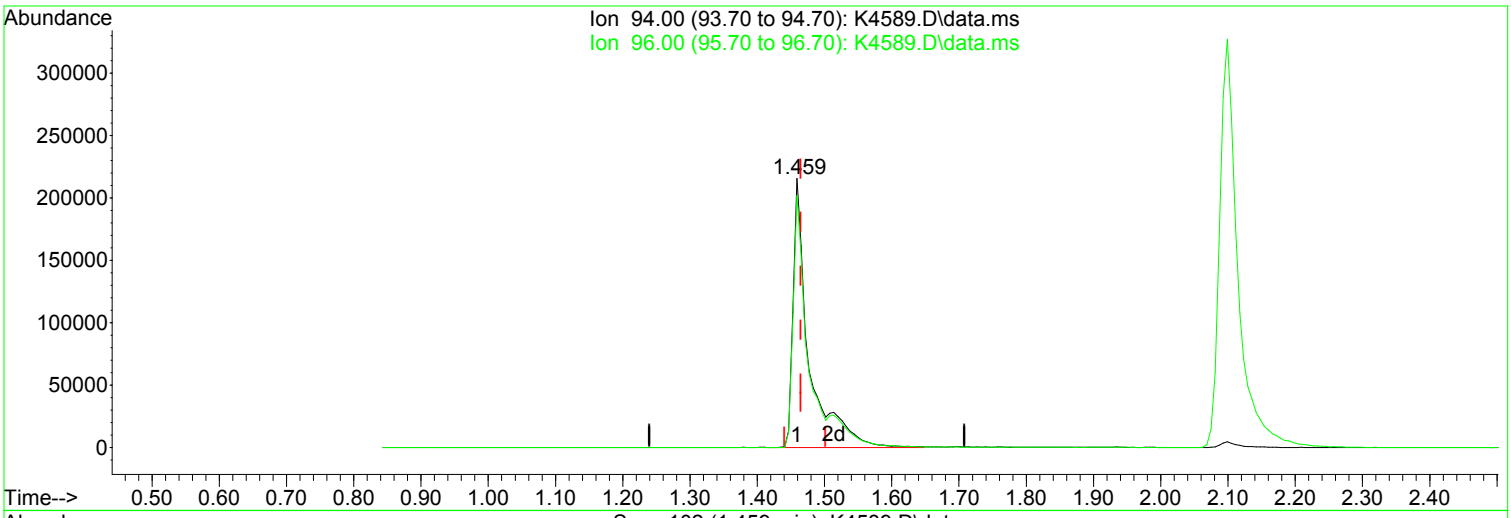
Quant Time: Jul 31 19:25:33 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

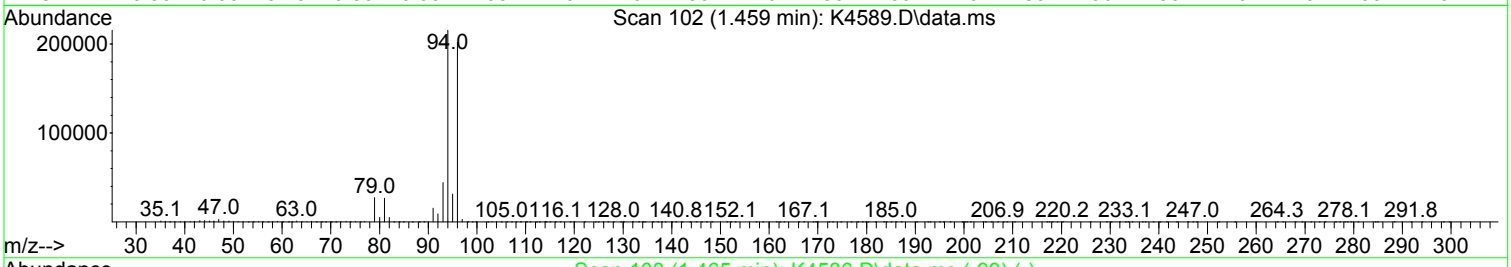


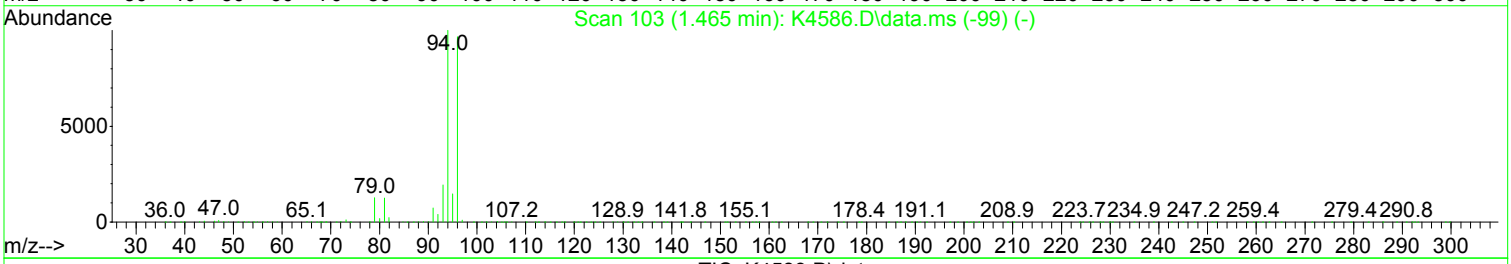
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4589.D
Acq On : 31 Jul 2024 06:51 pm
Operator : K.Ruest
Sample : 200ppb
Misc : 8260/624 ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 31 19:25:38 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4589.D\data.ms

(6) Bromomethane (P)

1.459min (-0.006) 181.86 ug/L m

response 357390

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	95.80	93.62
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

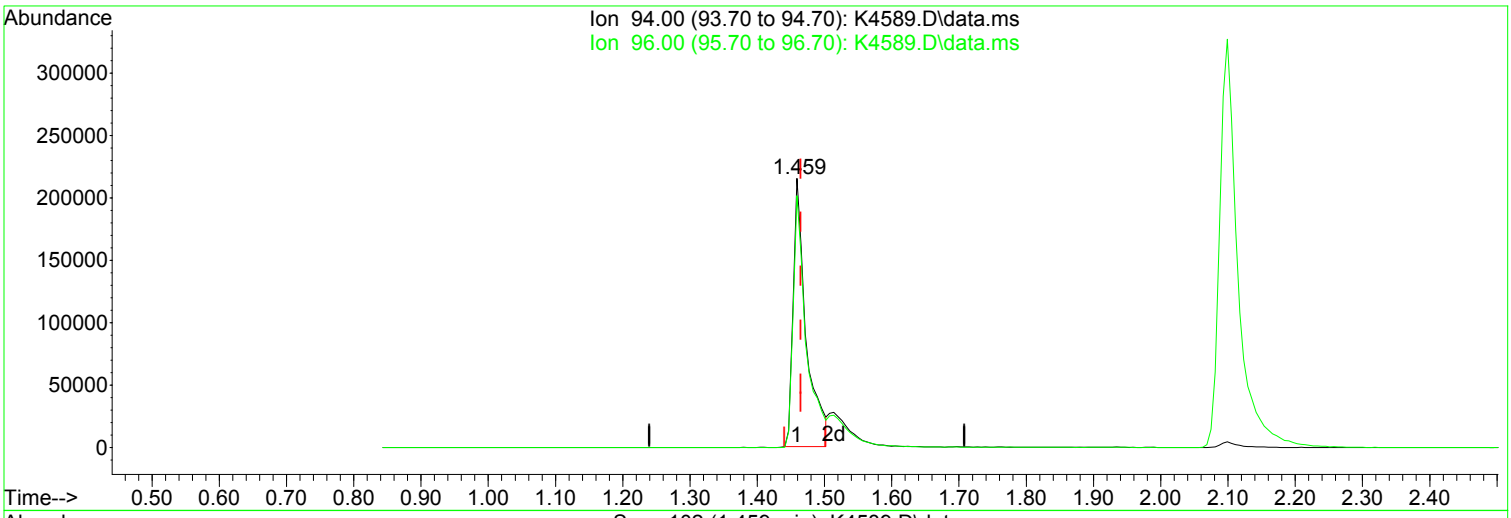
Split Peak.

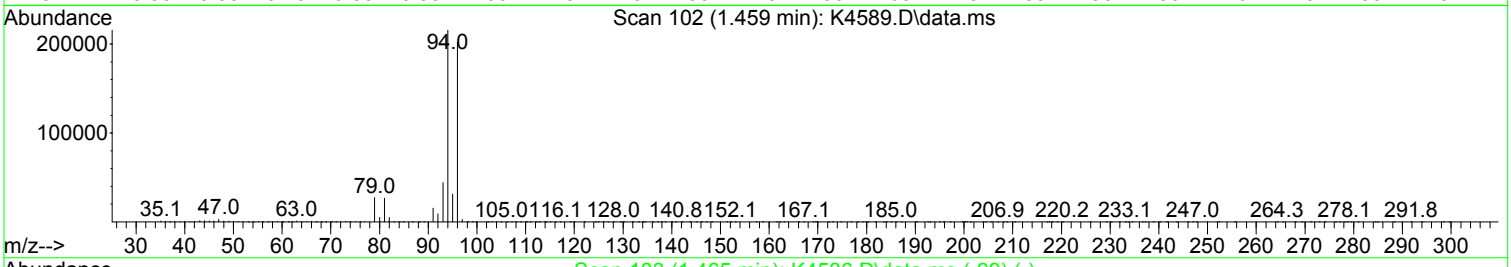
08/01/24

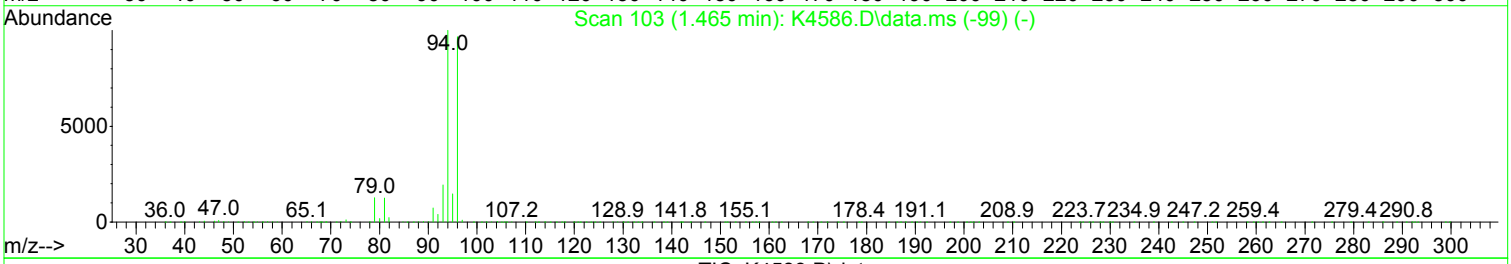
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4589.D
Acq On : 31 Jul 2024 06:51 pm
Operator : K.Ruest
Sample : 200ppb
Misc : 8260/624 ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 31 19:25:38 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration







TIC: K4589.D\data.ms

(6) Bromomethane (P)

1.459min (-0.006) 146.81 ug/L

response 288504

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	95.80	93.62
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

08/01/24

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4589.D
Acq On : 31 Jul 2024 06:51 pm
Operator : K.Ruest
Sample : 200ppb
Misc : 8260/624 ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 31 19:25:38 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.995	168	364106	50.00	ug/L		0.00
42) 1,4-Difluorobenzene	6.172	114	610492	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.573	117	569706	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.646	152	269840	50.00	ug/L	#	0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.830	113	202838	53.26	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 106.52%				
47) surr1,1,2-dichloroetha...	5.416	65	266030	51.11	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.22%				
64) SURR3,Toluene-d8	8.049	98	755763	54.08	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 108.16%				
69) SURR2,BFB	10.665	95	303880	55.30	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 110.60%				
Target Compounds							Qvalue
2) Chlorodifluoromethane	1.081	51	955912	192.922	ug/L		90
3) Dichlorodifluoromethane	1.075	85	986016	231.848	ug/L		95
4) Chloromethane	1.209	50	1012095	211.859	ug/L		99
5) Vinyl Chloride	1.258	62	1020193	206.996	ug/L		97
6) Bromomethane	1.459	94	357390m	181.862	ug/L		
7) Chloroethane	1.526	64	636370	203.686	ug/L		95
8) Freon 21	1.672	67	1270446	191.158	ug/L		100
9) Trichlorofluoromethane	1.709	101	1070203	195.253	ug/L		98
10) Diethyl Ether	1.928	59	783620	198.626	ug/L		82
11) Freon 123a	1.934	67	674547	172.576	ug/L		90
12) Freon 123	1.983	83	886975	198.792	ug/L		98
13) Acrolein	2.026	56	711140	1236.396	ug/L		98
14) 1,1-Diclethene	2.099	96	620399	201.018	ug/L	#	83
15) Freon 113	2.105	101	629851	198.466	ug/L		98
16) Acetone	2.154	43	521675	179.002	ug/L		91
17) 2-Propanol	2.288	45	2369508	4122.692	ug/L		94
18) Iodomethane	2.221	142	1036850	215.443	ug/L		97
19) Carbon Disulfide	2.270	76	1717733	226.064	ug/L		99
20) Acetonitrile/Allyl Chl...	2.404	41	1903363	1241.184	ug/L		86
21) Methyl Acetate	2.434	43	969243	190.591	ug/L		86
22) Methylene Chloride	2.514	84	682123	149.486	ug/L	#	70
23) TBA	2.660	59	4354482	4087.585	ug/L		94
24) Acrylonitrile	2.764	53	2610761	981.379	ug/L		100
25) Methyl-t-Butyl Ether	2.800	73	2302329	196.962	ug/L		88
26) trans-1,2-Dichloroethene	2.782	96	677338	200.068	ug/L	#	83
27) 1,1-Diclethane	3.245	63	1402320	200.859	ug/L		98
28) Vinyl Acetate	3.331	86	178000	260.874	ug/L	#	1
29) DIPE	3.361	45	2416545	196.056	ug/L		88
30) 2-Chloro-1,3-Butadiene	3.355	53	1397699	197.799	ug/L		82
31) ETBE	3.849	59	2618170	200.527	ug/L		91
32) 2,2-Dichloropropane	4.007	77	1069534	243.531	ug/L		98
33) cis-1,2-Dichloroethene	4.013	96	784477	202.174	ug/L	#	76
34) 2-Butanone	4.074	43	687060	197.571	ug/L		84
35) Propionitrile	4.160	54	1198128	1008.483	ug/L		99
36) Bromochloromethane	4.379	130	518620	201.606	ug/L	#	69
37) Methacrylonitrile	4.404	67	455586	205.712	ug/L	#	50
38) Tetrahydrofuran	4.471	42	428424	193.154	ug/L	#	73
39) Chloroform	4.550	83	1242783	191.495	ug/L		96
40) 1,1,1-Trichloroethane	4.830	97	1168912	224.403	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4589.D
Acq On : 31 Jul 2024 06:51 pm
Operator : K.Ruest
Sample : 200ppb
Misc : 8260/624 ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 31 19:25:38 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) TAME	5.769	73	2058068	204.362 ug/L		89
43) Cyclohexane	4.910	41	678854	188.865 ug/L		89
45) Carbontetrachloride	5.129	117	1024426	211.031 ug/L		97
46) 1,1-Dichloropropene	5.147	75	882132	196.765 ug/L		98
48) Benzene	5.495	78	2606742	200.749 ug/L		87
49) 1,2-Dichloroethane	5.550	62	1233518	189.483 ug/L		95
50) Iso-Butyl Alcohol	5.574	43	1500653	4787.294 ug/L		97
51) n-Heptane	6.025	43	971395	198.624 ug/L	#	77
52) 1-Butanol	6.604	56	2769065	13478.371 ug/L		90
53) Trichloroethene	6.507	130	778827	201.165 ug/L		99
54) Methylcyclohexane	6.751	55	1082519	198.157 ug/L	#	76
55) 1,2-Diclpropane	6.806	63	793881	200.845 ug/L		96
56) Dibromomethane	6.952	93	502705	202.804 ug/L		97
57) 1,4-Dioxane	7.037	88	334270	3998.822 ug/L		83
58) Methyl Methacrylate	7.062	69	692693	209.732 ug/L	#	70
59) Bromodichloromethane	7.196	83	1007811	216.424 ug/L		99
60) 2-Nitropropane	7.501	41	773856	464.975 ug/L		91
61) 2-Chloroethylvinyl Ether	7.622	63	255347	200.009 ug/L		94
62) cis-1,3-Dichloropropene	7.757	75	1189482	224.281 ug/L		99
63) 4-Methyl-2-pentanone	7.976	43	1279669	206.667 ug/L		88
65) Toluene	8.122	91	2894660	195.280 ug/L		96
66) trans-1,3-Dichloropropene	8.415	75	1153997	226.559 ug/L		99
67) Ethyl Methacrylate	8.567	69	1233626	216.226 ug/L	#	69
68) 1,1,2-Trichloroethane	8.604	97	726913	203.499 ug/L		99
71) Tetrachloroethene	8.726	164	554968	197.548 ug/L		97
72) 2-Hexanone	8.915	43	1001380	199.423 ug/L		89
73) 1,3-Dichloropropane	8.775	76	1175023	191.173 ug/L	#	81
74) Dibromochloromethane	9.006	129	878395	221.368 ug/L		98
75) N-Butyl Acetate	9.073	43	1905656	197.916 ug/L		91
76) 1,2-Dibromoethane	9.098	107	819141	201.394 ug/L		98
77) 3-Chlorobenzotrifluoride	9.634	180	942649	203.636 ug/L		93
78) Chlorobenzene	9.604	112	2013033	188.569 ug/L		98
79) 4-Chlorobenzotrifluoride	9.689	180	848095	197.740 ug/L		96
80) 1,1,1,2-Tetrachloroethane	9.695	131	815186	211.934 ug/L		99
81) Ethylbenzene	9.726	106	1060395	197.557 ug/L		98
82) (m+p)Xylene	9.842	106	2585547	391.306 ug/L		94
83) o-Xylene	10.201	106	1307633	198.702 ug/L		97
84) Styrene	10.220	104	2296989	207.498 ug/L		99
85) Bromoform	10.366	173	571703	254.739 ug/L		99
86) 2-Chlorobenzotrifluoride	10.457	180	939172	200.234 ug/L		94
87) Isopropylbenzene	10.543	105	3350733	198.599 ug/L		98
88) Cyclohexanone	10.616	55	4801290	3851.988 ug/L		96
89) trans-1,4-Dichloro-2-B...	10.866	53	520470	218.605 ug/L		91
91) 1,1,2,2-Tetrachloroethane	10.817	83	1134858	200.947 ug/L		98
92) Bromobenzene	10.787	156	855481	198.741 ug/L		99
93) 1,2,3-Trichloropropane	10.841	110	395994	193.366 ug/L		91
94) n-Propylbenzene	10.902	91	3784609	193.549 ug/L		97
95) 2-Chlorotoluene	10.963	91	2357099	191.679 ug/L		99
96) 3-Chlorotoluene	11.018	91	2404458	193.262 ug/L		99
97) 4-Chlorotoluene	11.055	91	2720487	192.336 ug/L		99
98) 1,3,5-Trimethylbenzene	11.055	105	2873043	194.003 ug/L		99
99) tert-Butylbenzene	11.329	119	2447265	193.625 ug/L		97
100) 1,2,4-Trimethylbenzene	11.366	105	2923730	194.741 ug/L		99
101) 3,4-Dichlorobenzotrifl...	11.439	214	643347	197.333 ug/L		100
102) sec-Butylbenzene	11.512	105	3416004	193.022 ug/L		100
103) p-Isopropyltoluene	11.634	119	3065689	196.977 ug/L		98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4589.D
Acq On : 31 Jul 2024 06:51 pm
Operator : K.Ruest
Sample : 200ppb
Misc : 8260/624 ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 31 19:25:38 2024
Quant Method : I:\ACQUDATA\MSVOA17\Methods\W073124.m
Quant Title : MS#17 - 8260 WATERS 5mL Purge
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.591	146	1632263	197.991	ug/L	99
105) 1,4-Dclbenz	11.664	146	1648047	197.988	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.725	214	580439	202.183	ug/L	97
107) 2,5-Dichlorobenzotrifl...	11.768	214	644258	201.324	ug/L	97
108) n-Butylbenzene	11.969	91	2680398	197.761	ug/L	98
109) 1,2-Dclbenz	11.963	146	1605097	197.196	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.591	157	337473	251.161	ug/L	96
111) Trielution Dichlorotol...	12.713	125	4460230	581.361	ug/L	98
112) 1,3,5-Trichlorobenzene	12.762	180	1043974	196.290	ug/L	98
113) Coelution Dichlorotoluene	13.042	125	3231583	391.592	ug/L	98
114) 1,2,4-Tcbenzene	13.250	180	1057627	205.089	ug/L	98
115) Hexachlorobt	13.384	225	382295	201.384	ug/L	97
116) Naphthalen	13.439	128	3892927	199.619	ug/L	99
117) 1,2,3-Tclbenzene	13.628	180	1028222	202.323	ug/L	99
118) 2,4,5-Trichlorotoluene	14.213	159	836641	206.665	ug/L	97
119) 2,3,6-Trichlorotoluene	14.298	159	784097	209.347	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA17\Data\073124\
Data File : K4589.D
Acq On : 31 Jul 2024 06:51 pm
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Sample : 200ppb
Misc : 8260/624 ICAL
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Quant Time: Jul 31 19:25:38 2024
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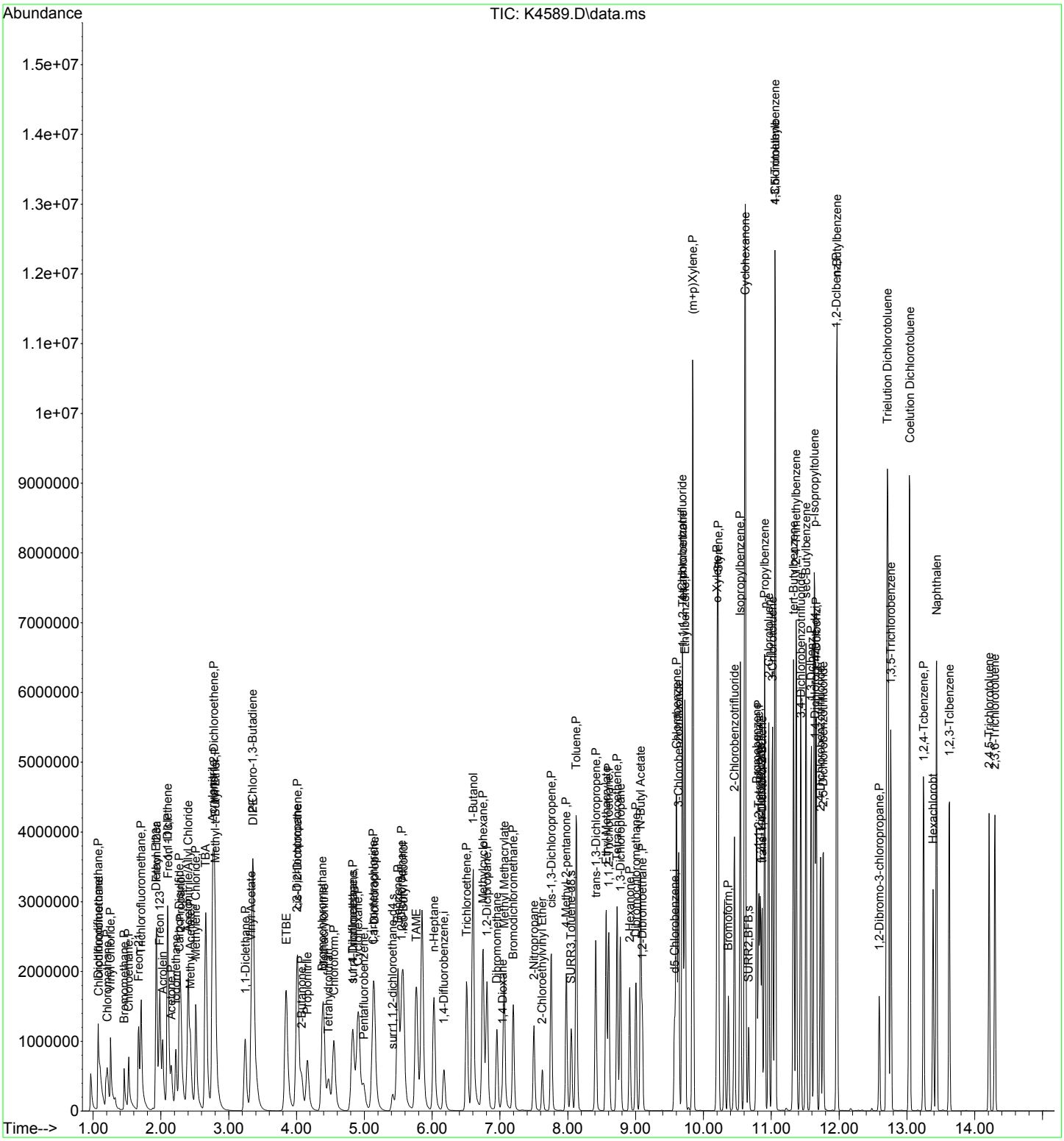
QLast Update : Wed Jul 31 19:09:13 2024
Response via : Initial Calibration



Analysis: 8260+624 | Analyst: KWest | pH strips: N/A | Tune Method: W073124
Date: 7/31/24 | Balance ID: N/A | ResCl strips: ↓ | Run Method: ↓
Instr. 17 | 50 mL Class A used for dilution FV | Syringes: 231174 + 200106 | LIMS Run#: ICAL
Data Path: j:\acqudata\msvoa(InstID)\(Date)

Pos.	Sample	Diln.	Diln. Prep./	RL	Vial	HS	CI	pH	File#	OK?	Comments
1	CCV - headspace								KY572		filament #1 + new trap
2	LCS - headspace								KY573		
3	BLK								KY574		
4	LCS - headspace								KY575		↑ temp
5	BLK								KY576		
6	↓								KY577		
7	↓								KY578		
1	TUNE								KY579	YT	(cont'd) 14:43
2	1 BLK	(5ppm)	(500ppm) Aliquot SMSD FV						KY580	YR	
1	0.5 ppb	5mL	— — 50mL						KY581	Y	
2	1.0	10mL	— —						KY582	Y	
3	2.0	20mL	— —						KY583	Y	
4	5.0	50mL	— 1mL						KY584	Y	
5	20	—	2mL 2mL						KY585	Y	
6	50	—	5mL 5mL						KY586	Y	
7	100	—	10mL 10mL						KY587	Y	
8	150	—	15mL 15mL						KY588	Y	
9	200	—	20mL —						KY589	Y	
10	— BLK —	—							KY590	—	
11	↓	—							KY591	—	
12	↓	—							KY592	—	
13	ICV.50								KY593	YQ	
14	— BLK —	—							KY594	—	

EOD
KR 7/31/24

All samples = 5 mL + 5 uL combined IS/ 5 mL purged

500 Primary OCC : 235592
Primary Fr : 236424
Primary TG : 236535 ~~5mL → 50mL~~ (100)
Primary HSL : 236312 10mL → 1.0mL MeOH
Primary 826 : 236513 = 5ppm
JT

200 Secondary Fr : 236425 – 10.5mL
200 Secondary OCC : 236103
Secondary TG : 236192 5mL
Secondary HSL : 236406
Secondary 826 : 236514 = 90mL = ICV.50
JT

Combined IS/Surr :
Surrogate 50 : 236433
Internal Std 50 : 236434
Reagents: MeOH : 236272

ALS Group USA, Corp.

DBA ALS Environmetal

QC/QC Report

Date Analyzed: 7/31/24 15:07

ICAL Tune Summary

Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA17\Data\073124\K4580.D Analytical Method: 8260C/624.1

Instrument ID: R-MS-17

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Results Pass/Fail
50	95	15	40	23.5	42427	PASS
75	95	30	60	49.8	89888	PASS
95	95	100	100	100.0	180352	PASS
96	95	5	9	6.6	11833	PASS
173	174	0	2	1.0	1345	PASS
174	95	50	120	72.4	130624	PASS
175	174	5	9	7.6	9934	PASS
176	174	95	101	96.4	125981	PASS
177	176	5	9	6.6	8308	PASS

Sample Name	Lab Code	File ID:	Date Analyzes:	Q
0.5ppb	0.5ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4581.D	7/31/24 15:35	
1.0ppb	1.0ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4582.D	7/31/24 15:58	
2.0ppb	2.0ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4583.D	7/31/24 16:22	
5.0ppb	5.0ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4584.D	7/31/24 16:46	
20ppb	20ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4585.D	7/31/24 17:12	
50ppb	50ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4586.D	7/31/24 17:37	
100ppb	100ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4587.D	7/31/24 18:02	
150ppb	150ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4588.D	7/31/24 18:27	
200ppb	200ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4589.D	7/31/24 18:51	
ICV-50	ICV-50	I:\ACQUDATA\MSVOA17\Data\073124\K4593.D	7/31/24 20:29	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408140
Project: Olean OU3 12-Month Sampling **Calibration Date:** 7/31/2024

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2400147 **Signal ID:** 1
Instrument ID: R-MS-17

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC2400147-01	0.5ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4581.D	07/31/2024 15:35
02	RC2400147-02	1.0ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4582.D	07/31/2024 15:58
03	RC2400147-03	2.0ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4583.D	07/31/2024 16:22
04	RC2400147-04	5.0ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4584.D	07/31/2024 16:46
05	RC2400147-05	20ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4585.D	07/31/2024 17:12
06	RC2400147-06	50ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4586.D	07/31/2024 17:37
07	RC2400147-07	100ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4587.D	07/31/2024 18:02
08	RC2400147-08	150ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4588.D	07/31/2024 18:27
09	RC2400147-09	200ppb	I:\ACQUDATA\MSVOA17\Data\073124\K4589.D	07/31/2024 18:51

Analyte

4-Bromofluorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.4777	05	20.000	0.4092	06	50.000	0.4609	07	100.000	0.4539
08	200.000	0.4484									

Dibromofluoromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.3228	05	20.000	0.2798	06	50.000	0.3185	07	100.000	0.3267
08	200.000	0.3116									

Tetrachloroethene (PCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2625	02	1.000	0.2681	03	2.000	0.2715	04	5.000	0.2611
05	20.000	0.2102	06	50.000	0.2331	07	100.000	0.2349	08	150.000	0.2341
09	200.000	0.2435									

Toluene-d8

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	1.236	05	20.000	1.047	06	50.000	1.163	07	100.000	1.16
08	200.000	1.117									

Trichloroethene (TCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3234	02	1.000	0.3333	03	2.000	0.3174	04	5.000	0.3354
05	20.000	0.2767	06	50.000	0.3095	07	100.000	0.3183	08	150.000	0.3208
09	200.000	0.3189									

Vinyl Chloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7533	02	1.000	0.7322	03	2.000	0.6594	04	5.000	0.7013
05	20.000	0.6119	06	50.000	0.6721	07	100.000	0.7062	08	150.000	0.7299
09	200.000	0.7005									

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408140
Project: Olean OU3 12-Month Sampling **Calibration Date:** 7/31/2024

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2400147 **Signal ID:** 1
Instrument ID: R-MS-17

Analyte

cis-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5448	02	1.000	0.5735	03	2.000	0.5774	04	5.000	0.574
05	20.000	0.4717	06	50.000	0.5222	07	100.000	0.5403	08	150.000	0.5252
09	200.000	0.5386									

trans-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4478	02	1.000	0.5142	03	2.000	0.4763	04	5.000	0.4749
05	20.000	0.4107	06	50.000	0.4522	07	100.000	0.4724	08	150.000	0.4707
09	200.000	0.4651									

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408140
Project: Olean OU3 12-Month Sampling **Calibration Date:** 7/31/2024

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2400147 **Signal ID:** 1
Instrument ID: R-MS-17

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
4-Bromofluorobenzene	SURR	Average RF	% RSD	5.6	≤20	0.45	
Dibromofluoromethane	SURR	Average RF	% RSD	6.0	≤20	0.3119	
Tetrachloroethene (PCE)	TRG	Average RF	% RSD	8.3	≤20	0.2466	0.200
Toluene-d8	SURR	Average RF	% RSD	6.1	≤20	1.145	
Trichloroethene (TCE)	TRG	Average RF	% RSD	5.4	≤20	0.3171	0.200
Vinyl Chloride	TRG	Average RF	% RSD	6.2	≤20	0.6963	0.100
cis-1,2-Dichloroethene	TRG	Average RF	% RSD	6.2	≤20	0.5409	0.100
trans-1,2-Dichloroethene	TRG	Average RF	% RSD	6.0	≤20	0.4649	0.100

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408140
Project: Olean OU3 12-Month Sampling **Calibration Date:** 7/31/2024

Initial Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2400147 **Signal ID:** 1
Instrument ID: R-MS-17

#	Lab Code	Sample Name	File Location	Acquisition Date
10	RC2400147-10	ICV-50	I:\ACQUDATA\MSVOA17\Data\073124\K4593.D	07/31/2024 20:29

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Tetrachloroethene (PCE)	50.0	50.8	2.466E-1	2.503E-1	1.51	±30	Average RF
Trichloroethene (TCE)	50.0	50.8	3.171E-1	3.22E-1	1.53	±30	Average RF
Vinyl Chloride	50.0	49.1	6.963E-1	6.837E-1	-1.811	±30	Average RF
cis-1,2-Dichloroethene	50.0	50.7	5.409E-1	5.484E-1	1.39	±30	Average RF
trans-1,2-Dichloroethene	50.0	50.7	4.649E-1	4.718E-1	1.48	±30	Average RF

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	50.5	4.5E-1	4.549E-1	1.09	±30	Average RF
Dibromofluoromethane	50.0	51.7	3.119E-1	3.225E-1	3.42	±30	Average RF
Toluene-d8	50.0	51.1	1.145E0	1.171E0	2.27	±30	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	08/30/24 07:42

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method:	8260D	**Calibration Date:**	7/31/2024
File ID:	I:\ACQUDATA\MSVOA17\Data\083024\K5387.D\	**Calibration ID:**	RC2400147
Signal ID:	1	**Analysis Lot:**	852468
		Units:	ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Tetrachloroethene (PCE)	50.0	52.1	0.2466	0.2571	4.3	NA	±20	Average RF
Trichloroethene (TCE)	50.0	50.8	0.3171	0.3223	1.6	NA	±20	Average RF
Vinyl Chloride	50.0	44.2	0.6963	0.6152	-11.6	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	48.8	0.5409	0.5279	-2.4	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	51.0	0.4649	0.4745	2.1	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	50.5	0.45	0.4547	1.0	NA	±20	Average RF
Dibromofluoromethane	50.0	52.3	0.3119	0.3263	4.6	NA	±20	Average RF
Toluene-d8	50.0	50.8	1.1446	1.1632	1.6	NA	±20	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	08/31/24 11:00

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method:	8260D	**Calibration Date:**	7/31/2024
File ID:	I:\ACQUDATA\MSVOA17\Data\083124\K5421.D\	**Calibration ID:**	RC2400147
Signal ID:	1	**Analysis Lot:**	852643
		Units:	ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Tetrachloroethene (PCE)	50.0	55.0	0.2466	0.2713	10.0	NA	±20	Average RF
Trichloroethene (TCE)	50.0	52.6	0.3171	0.3335	5.2	NA	±20	Average RF
Vinyl Chloride	50.0	46.6	0.6963	0.6486	-6.9	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	51.9	0.5409	0.5609	3.7	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	54.3	0.4649	0.5046	8.5	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	51.0	0.45	0.4594	2.1	NA	±20	Average RF
Dibromofluoromethane	50.0	52.2	0.3119	0.3258	4.5	NA	±20	Average RF
Toluene-d8	50.0	51.7	1.1446	1.1834	3.4	NA	±20	Average RF

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408140
Project: Olean OU3 12-Month Sampling/300-082

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: 8260D **Analysis Lot:**852468
Instrument ID:R-MS-17

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\MSVOA17\Data\083024\K5387.D\	Continuing Calibration Verification	RQ2410802-01	8/30/2024	07:42:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5388.D\	ZZZZZZZ	ZZZZZZZ	8/30/2024	08:18:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5389.D\	Lab Control Sample	RQ2410802-03	8/30/2024	08:41:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5391.D\	ZZZZZZZ	ZZZZZZZ	8/30/2024	09:37:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5392.D\	Method Blank	RQ2410802-05	8/30/2024	10:00:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5393.D\	ZZZZZZZ	ZZZZZZZ	8/30/2024	10:26:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5394.D\	ZZZZZZZ	ZZZZZZZ	8/30/2024	10:49:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5395.D\	ZZZZZZZ	ZZZZZZZ	8/30/2024	11:12:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5396.D\	ZZZZZZZ	ZZZZZZZ	8/30/2024	11:35:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5397.D\	ZZZZZZZ	ZZZZZZZ	8/30/2024	11:59:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5398.D\	ZZZZZZZ	ZZZZZZZ	8/30/2024	12:22:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5399.D\	OLN-TB003-T009	R2408140-014	8/30/2024	12:45:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5400.D\	OLN-TB001-T009	R2408140-001	8/30/2024	13:09:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5401.D\	OLN-FB001-B009	R2408140-004	8/30/2024	13:32:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5402.D\	OLN-EB001-E009	R2408140-007	8/30/2024	13:56:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5403.D\	OLN-FB002-B009	R2408140-008	8/30/2024	14:19:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5404.D\	OLN-UA003-F009	R2408140-002	8/30/2024	14:43:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5405.D\	OLN-UA002-F009	R2408140-003	8/30/2024	15:07:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5406.D\	OLN-CW13A-F009	R2408140-005	8/30/2024	15:30:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5407.D\	OLV-CW013-F009	R2408140-006	8/30/2024	15:54:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5408.D\	OLN-18M-F009	R2408140-009	8/30/2024	16:18:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5409.D\	OLN-RU028-F009	R2408140-010	8/30/2024	16:42:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5410.D\	OLN-RU021-F009	R2408140-012	8/30/2024	17:06:00	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408140
Project: Olean OU3 12-Month Sampling/300-082

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: 8260D **Analysis Lot:**852468
Instrument ID:R-MS-17

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\MSVOA17\Data\083024\K5411.D\	OLN-RU020-F009	R2408140-011	8/30/2024	17:30:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5413.D\	ZZZZZZZ	ZZZZZZZ	8/30/2024	18:18:00	
I:\ACQUDATA\MSVOA17\Data\083024\K5414.D\	ZZZZZZZ	ZZZZZZZ	8/30/2024	18:42:00	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408140
Project: Olean OU3 12-Month Sampling/300-082

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: 8260D **Analysis Lot:**852643
Instrument ID:R-MS-17

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\MSVOA17\Data\083124\K5421.D\	Continuing Calibration Verification	RQ2410851-01	8/31/2024	11:00:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5422.D\	Lab Control Sample	RQ2410851-02	8/31/2024	11:32:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5425.D\	Method Blank	RQ2410851-03	8/31/2024	12:52:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5426.D\	ZZZZZZZ	ZZZZZZZ	8/31/2024	13:16:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5427.D\	ZZZZZZZ	ZZZZZZZ	8/31/2024	13:39:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5428.D\	OLN-FD002-D009	R2408140-013	8/31/2024	14:02:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5429.D\	ZZZZZZZ	ZZZZZZZ	8/31/2024	14:25:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5430.D\	ZZZZZZZ	ZZZZZZZ	8/31/2024	14:48:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5431.D\	ZZZZZZZ	ZZZZZZZ	8/31/2024	15:12:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5432.D\	ZZZZZZZ	ZZZZZZZ	8/31/2024	15:35:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5433.D\	ZZZZZZZ	ZZZZZZZ	8/31/2024	15:59:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5434.D\	ZZZZZZZ	ZZZZZZZ	8/31/2024	16:22:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5435.D\	ZZZZZZZ	ZZZZZZZ	8/31/2024	16:46:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5436.D\	ZZZZZZZ	ZZZZZZZ	8/31/2024	17:10:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5437.D\	ZZZZZZZ	ZZZZZZZ	8/31/2024	17:34:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5438.D\	ZZZZZZZ	ZZZZZZZ	8/31/2024	17:57:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5439.D\	ZZZZZZZ	ZZZZZZZ	8/31/2024	18:21:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5440.D\	ZZZZZZZ	ZZZZZZZ	8/31/2024	18:45:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5441.D\	ZZZZZZZ	ZZZZZZZ	8/31/2024	19:08:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5442.D\	ZZZZZZZ	ZZZZZZZ	8/31/2024	19:32:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5443.D\	ZZZZZZZ	ZZZZZZZ	8/31/2024	19:55:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5444.D\	ZZZZZZZ	ZZZZZZZ	8/31/2024	20:18:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5445.D\	ZZZZZZZ	ZZZZZZZ	8/31/2024	20:41:00	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408140
Project: Olean OU3 12-Month Sampling/300-082

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: 8260D **Analysis Lot:**852643
Instrument ID:R-MS-17

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\MSVOA17\Data\083124\K5446.D\	ZZZZZZZ	ZZZZZZZ	8/31/2024	21:05:00	
I:\ACQUDATA\MSVOA17\Data\083124\K5447.D\	ZZZZZZZ	ZZZZZZZ	8/31/2024	21:28:00	

Analysis: 8260 | Analyst: F.Nagler | pH strips: 234223 | Tune Method: W073124.M

Date: 8/30/24 | Balance ID: — | ResCl strips: — | Run Method: ↓

Instr. MS17 | 50 mL Class A used for dilution FV | Syringes: 231174 | LIMS Run#: 852468

Data Path: j:\acqudata\msvoa(InstID)\(Date)

Pos.	Sample	Diln.	Diln. Prep./	RL	Vial	HS	Cl	pH	File#	OK?	Comments
1	BLK								K5385	Y	
2	TUNE								86	Y	Not needed
3	CCV								87	Y	
4	LCS-WP								88	Y	
5	LCS-FP								89	Y	
6	BLK								90	(N)	
7	MBLK-WP								91	Y	
8	MBLK-FP								92	Y	
9	R2408232-001	1.0		26525	1	(Y)	–	7	93	Y	
10	-002	1.0			1	(Y)	–	7	94	Y	
11	-004	1.0		↓	1	(Y)	–	5	95	Y	
12	R2408139-001	1.0		26473	1	N	–	<2	96	Y	
13	-002	1.0			1	N	–	<2	97	Y	
14	-003	1.0			1	N	–	<2	98	Y	
15	R2408140-014	1.0			1	N	–	<2	99	Y	
16	-001	1.0			1	N	–	<2	K5400	Y	
17	-004	1.0			1	N	–	<2	01	Y	
18	-007	1.0			1	N	–	<2	02	Y	
19	-008	1.0			1	N	–	<2	03	Y	
20	-002	1.0			1	N	–	<2	04	Y	
21	-003	1.0			1	N	–	<2	05	Y	
22	-005	1.0			1	N	–	<2	06	Y	
23	-006	1.0			1	N	–	<2	07	Y	
24	-009	1.0			1	N	–	<2	08	Y	
25	-010	1.0			1	N	–	<2	09	Y	
26	-012	1.0			1	N	–	<2	10	Y	
27	-011	2.5	20/50mL		1	N	–	<2	11	Y	
28	-013	2.5	↓		1	N	–	<2	12	(N)	Rpt 1/1
29	R2408139-001MS	1.0			2	N	–	<2	13	Y	
30	-001MSD	1.0		↓	3	N	–	<2	14	Y	
31	BLK								15	Y	
32	↓								16	Y	

All samples = 5 mL + 5 uL combined IS/ 5 mL purged

Combined IS/Surr: —

T/G Primary 500 : 237012 – 5uL/5mL

HSL Primary : 236725 –

Fr Primary : 236900 –

DCC Primary : 235592 –

Primary :

↓ (CCV)

Fr Secondary 200 : 236901 – 5uL

T/G Secondary 500 : 237013 – 2uL

HSL Secondary : 236691 –

DCC Secondary : 236103 –

Secondary :

5mL (LCS) -12.5uL -5uL 5mL (SPK)

Surrogate 50 : 236870

Internal Std 50 : 236871

Reagents: —

Analysis: 8260 | Analyst: F. Naglee | pH strips: 234223 | Tune Method: W073124.M

Date: 8/31/24 | Balance ID: — | ResCl strips: — | Run Method: ↓

Instr. MS17 | 50 mL Class A used for dilution FV | Syringes: 231174 | LIMS Run#: 852643

Data Path: j:\acqudata\msvoa(InstID)\(Date)

Pos.	Sample	Diln.	Diln. Prep./	RL	Vial	HS	Cl	pH	File#	OK?	Comments
1	BLK								K5418	Y	
2	↓								19	Y	
3	CCV								20	(N)	
4	CCV								21	Y	
5	LCS-FP								22	Y	
6	BLK								23	(N)	
7	MBLK-UNP								24	Y	
8	MBLK-FP								25	Y	
9	R2408139-011	1.0		26473	1	N	—	<2	26	Y	
10	↓ -013	1.0		↓	1	N	—	<2	27	Y	
11	R2408140-013	1.0			2	N	—	<2	28	Y	
12	R2408139-005	1.0			1	N	—	<2	29	Y	
13	-010	1.0			1	N	—	<2	30	Y	
14	-004	1.0			1	N	—	<2	31	Y	
15	-007	1.0			1	N	—	<2	32	Y	
16	-008	1.0			1	N	—	<2	33	Y	
17	-012	2.0	25/5mL	↓	1	N	—	<2	34	(Y)	Rpt 1/5
18	R2408146-005	1.0		26396	1	N	—	<2	35	Y	
19	-006	1.0			1	N	—	<2	36	Y	
20	-007	1.0			1	N	—	<2	37	Y	
21	-008	1.0			1	N	—	<2	38	Y	
22	-009	1.0			1	N	—	<2	39	Y	
23	-010	5.0	10/50mL		1	N	—	<2	40	Y	
24	-011	1.0			1	N	—	<2	41	Y	
25	-012	1.0			1	N	—	<2	42	Y	
26	-013	1.0			1	N	—	<2	43	Y	
27	-014	1.0			1	N	—	<2	44	Y	
28	-015	1.0		↓	1	N	—	<2	45	Y	
29	R2408139-008MS	1.0		26473	2	N	—	<2	46	Y	
30	↓ -008MSD	1.0		↓	3	N	—	<2	47	Y	
31	BLK								48	Y	
32	↓								↓ 49	Y	

All samples = 5 mL + 5 uL combined IS/ 5 mL purged

Combined IS/Surr: —

Surrogate 50: 236870

Internal Std 50: 236871

Reagents: —

THM Primary 500: 237012 – 5mL/50mL

HSL Primary: 236725 –

Fr Primary: 236900 –

OCC Primary: 235592 – (CCV)

Primary: _____

Fr Secondary 200: 236901 – 5uL

THM Secondary 500: 237013 – 2uL

HSL Secondary: 236691 –

OCC Secondary: 236103 – 50mL (LCS) -12.5L -5L 5mL (SPK)

Secondary: _____

Volatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 13:37
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-UA003-F009	**Units:**	ug/L
Lab Code:	R2408140-002	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	09/02/24 13:54	
Ethene	5.0 U	5.0	1.3	1	09/02/24 13:54	
Methane	**460**	5.2	3.0	1	09/02/24 13:54	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 15:25
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-UA002-F009	**Units:**	ug/L
Lab Code:	R2408140-003	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	13 U	13	2.2	2.5	09/02/24 14:07	
Ethene	13 U	13	3.1	2.5	09/02/24 14:07	
Methane	**340**	13	7.5	2.5	09/02/24 14:07	

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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 16:25
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FB001-B009	**Units:**	ug/L
Lab Code:	R2408140-004	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	09/02/24 14:19	
Ethene	5.0 U	5.0	1.3	1	09/02/24 14:19	
Methane	5.2 U	5.2	3.0	1	09/02/24 14:19	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 10:15
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-EB001-E009	**Units:**	ug/L
Lab Code:	R2408140-007	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	09/02/24 14:30	
Ethene	5.0 U	5.0	1.3	1	09/02/24 14:30	
Methane	5.2 U	5.2	3.0	1	09/02/24 14:30	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 10:35
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FB002-B009	**Units:**	ug/L
Lab Code:	R2408140-008	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	09/02/24 14:43	
Ethene	5.0 U	5.0	1.3	1	09/02/24 14:43	
Methane	5.2 U	5.2	3.0	1	09/02/24 14:43	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 13:06
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU028-F009	**Units:**	ug/L
Lab Code:	R2408140-010	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	**0.93 J**	5.2	0.85	1	09/02/24 14:55	
Ethene	5.0 U	5.0	1.3	1	09/02/24 14:55	
Methane	**3.2 J**	5.2	3.0	1	09/02/24 14:55	

ALS Group USA, Corp.
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Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 15:47
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU020-F009	**Units:**	ug/L
Lab Code:	R2408140-011	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Ethane	52	U	52	8.5	10	09/03/24 12:31	
Ethene	50	U	50	13	10	09/03/24 12:31	
Methane	**4200**		52	30	10	09/03/24 12:31	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 08:31
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU021-F009	**Units:**	ug/L
Lab Code:	R2408140-012	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	100 U	100	17	20	09/03/24 12:42	
Ethene	100 U	100	25	20	09/03/24 12:42	
Methane	**8400**	100	60	20	09/03/24 12:42	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 22:00
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FD002-D009	**Units:**	ug/L
Lab Code:	R2408140-013	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

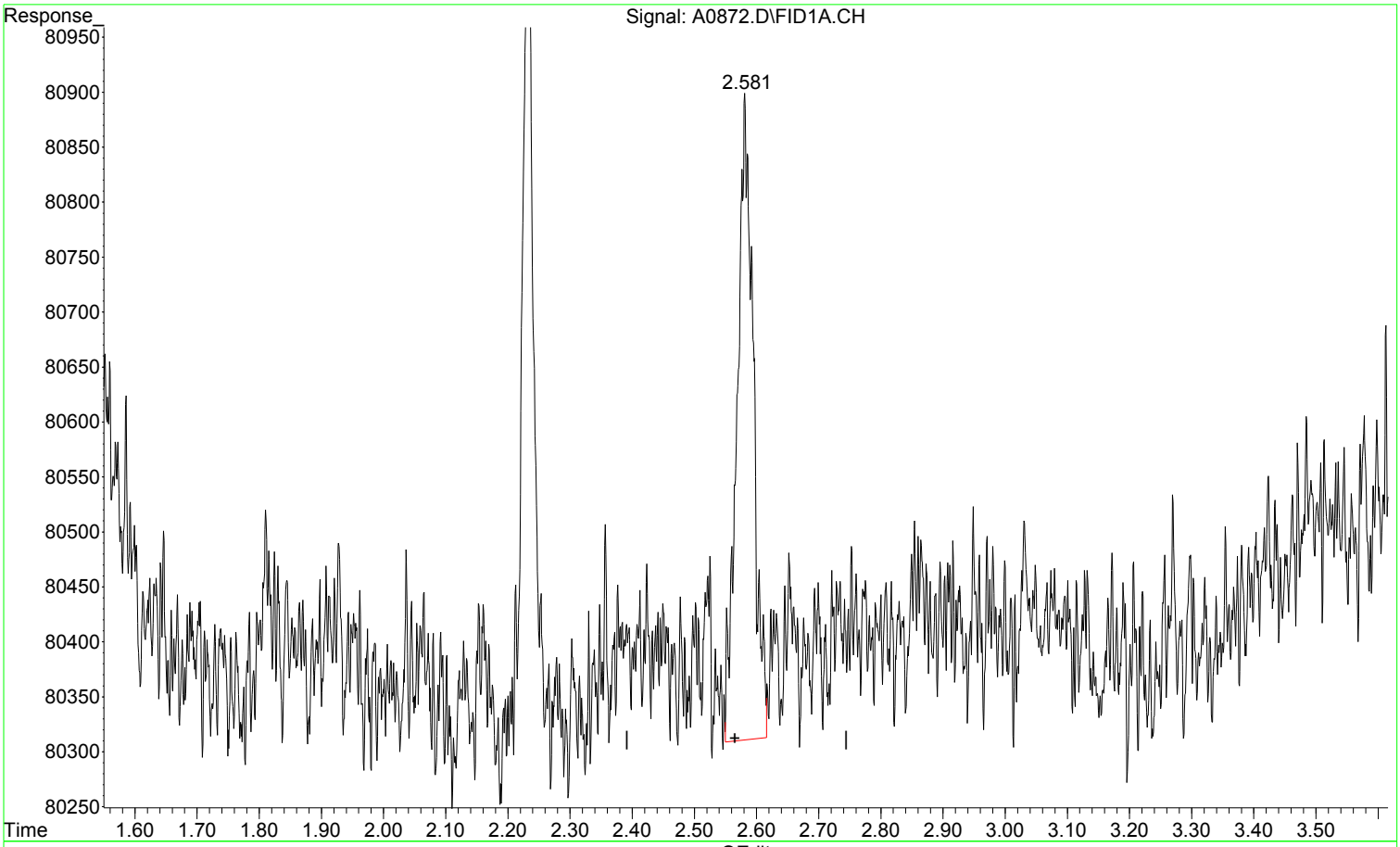
Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	100 U	100	17	20	09/03/24 12:54	
Ethene	100 U	100	25	20	09/03/24 12:54	
Methane	**6600**	100	60	20	09/03/24 12:54	

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0872.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 1:54 pm
Operator : F.NAEGLER
Sample : R2408140-002
Misc : CEC 979 T4
ALS Vial : 22 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 14:05:22 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane

2.581min 0.196 ug/L m

response 10590

Manual Integration:

After

Peak not found.

09/02/24

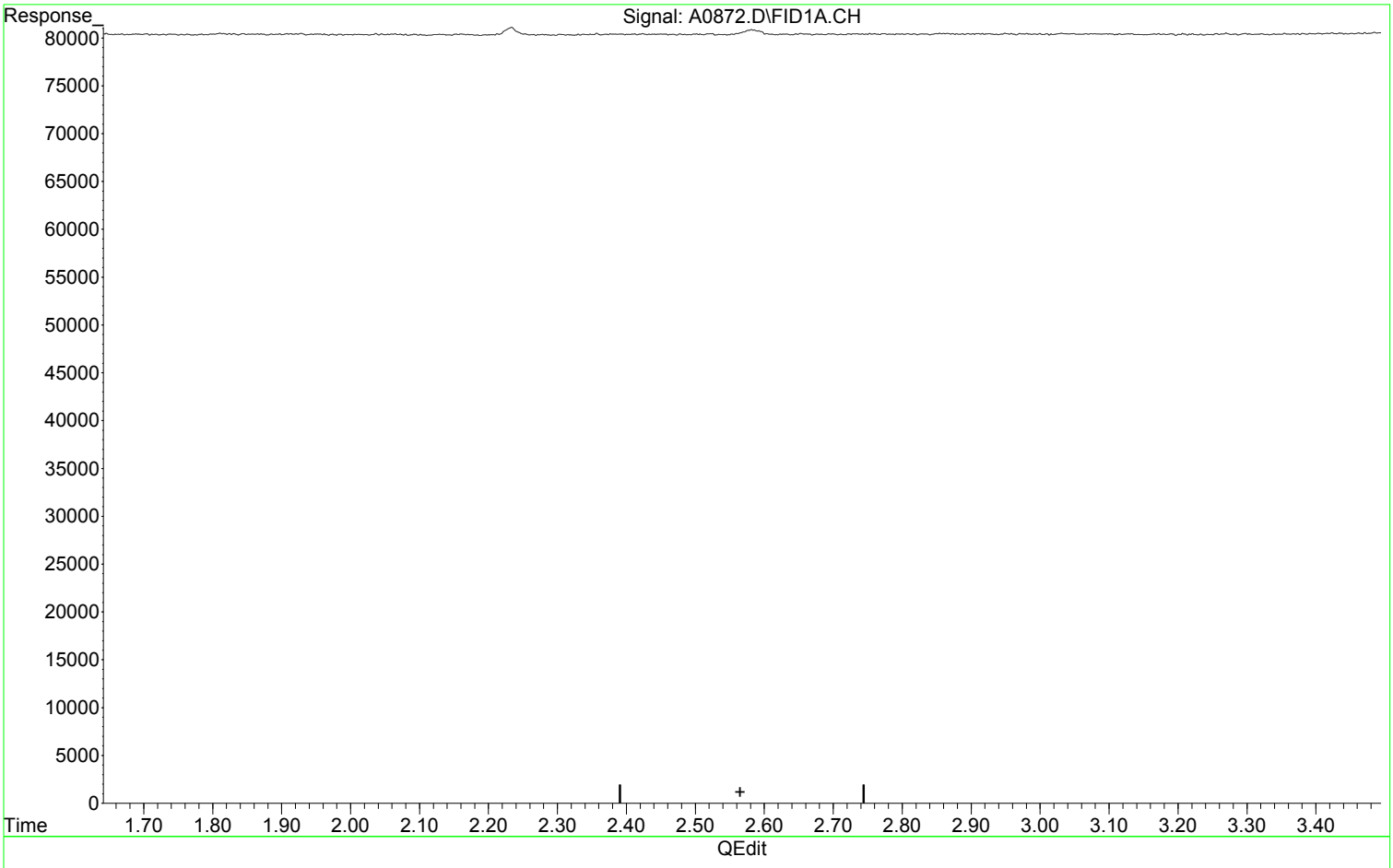
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0872.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 1:54 pm
Operator : F.NAEGLER
Sample : R2408140-002
Misc : CEC 979 T4
ALS Vial : 22 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 14:05:22 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane

2.565min 0.000 ug/L

response 0

Manual Integration:

Before

09/02/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0872.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 1:54 pm
Operator : F.NAEGLER
Sample : R2408140-002
Misc : CEC 979 T4
ALS Vial : 22 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 14:05:22 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.475	27267981	457.402	ug/L	
2)	Acetylene	0.000	0	N.D.	ug/L	
3)	Ethylene	0.000	0	N.D.	ug/L	
4)	Ethane	2.581	10590	0.196	ug/L	m
5)	Propane	0.000	0	N.D.	ug/L	

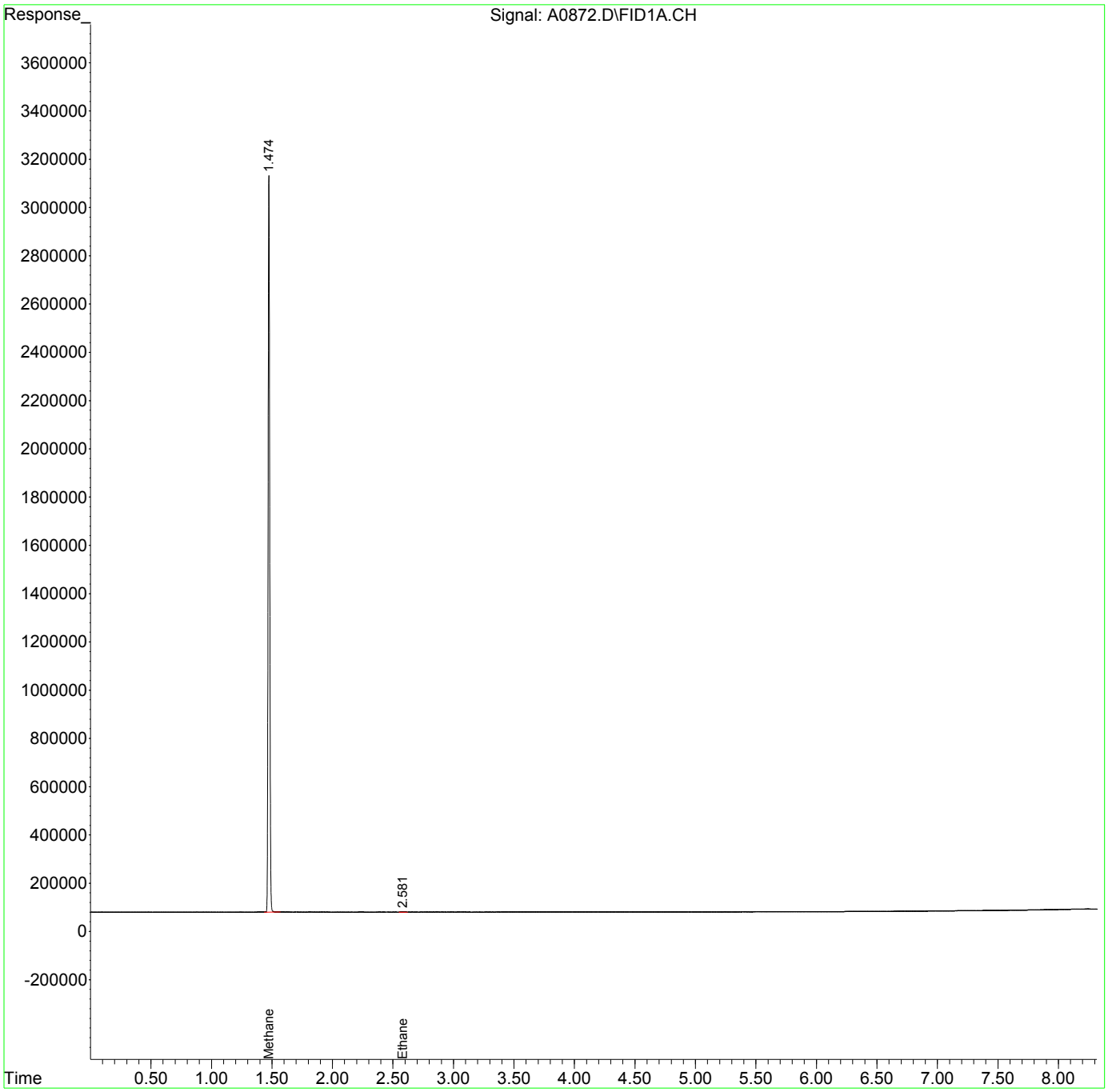
(f)=RT Delta > 1/2 Window (m)=manual int.

1st FJ 09/03/24
2nd AM 09/03/24

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0872.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 1:54 pm
Operator : F.NAEGLER
Sample : R2408140-002
Misc : CEC 979 T4
ALS Vial : 22 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 14:05:22 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



1st FJ 09/03/24
2nd AM 09/03/24

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0873.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 2:07 pm
Operator : F.NAEGLER
Sample : R2408140-003|2.5
Misc : CEC 979 T4
ALS Vial : 23 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 14:17:13 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.475	8073535	135.428	ug/L
2)	Acetylene	0.000	0	N.D.	ug/L
3)	Ethylene	0.000	0	N.D.	ug/L
4)	Ethane	0.000	0	N.D.	ug/L
5)	Propane	0.000	0	N.D.	ug/L

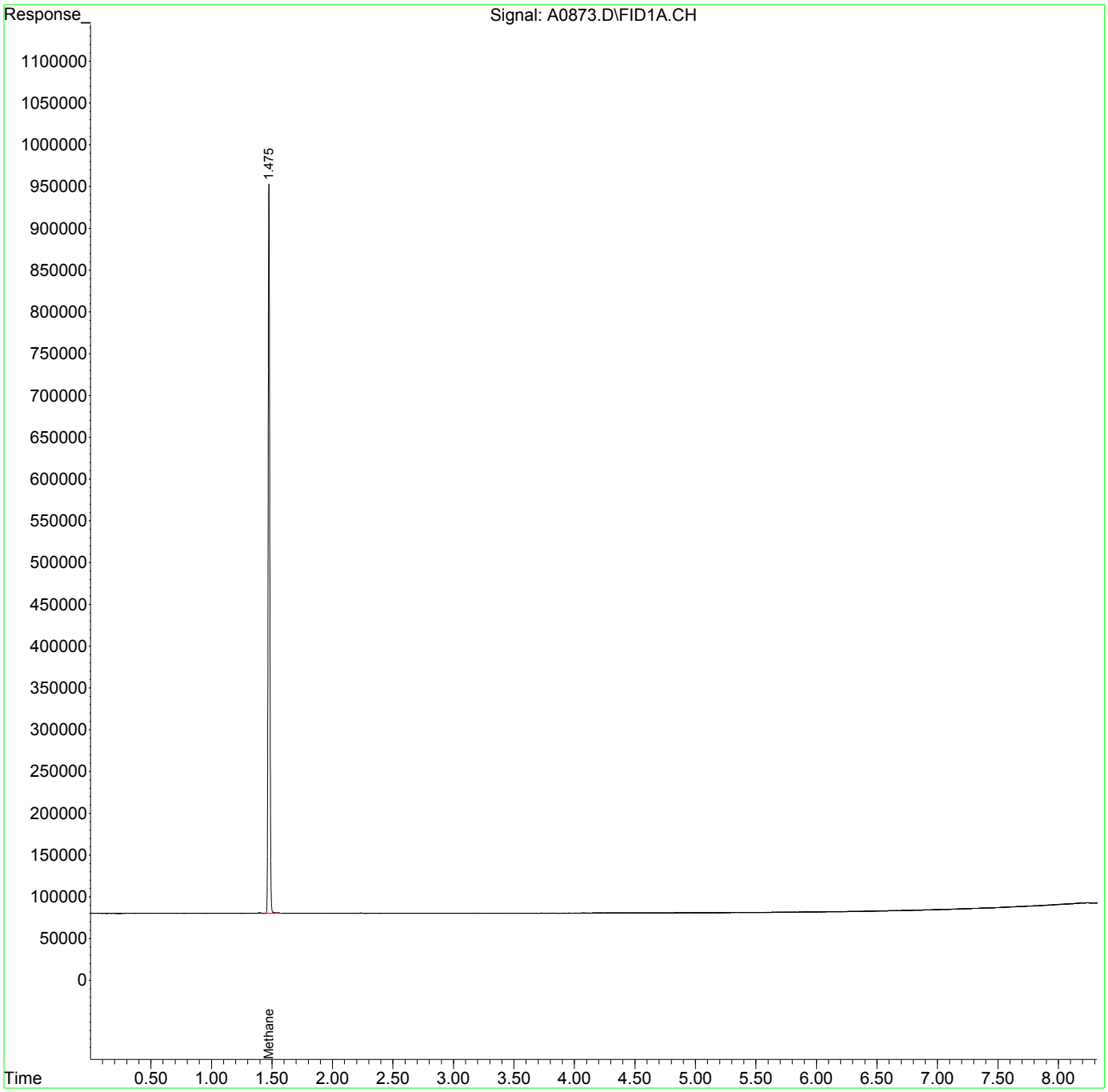
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0873.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 2:07 pm
Operator : F.NAEGLER
Sample : R2408140-003|2.5
Misc : CEC 979 T4
ALS Vial : 23 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 14:17:13 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



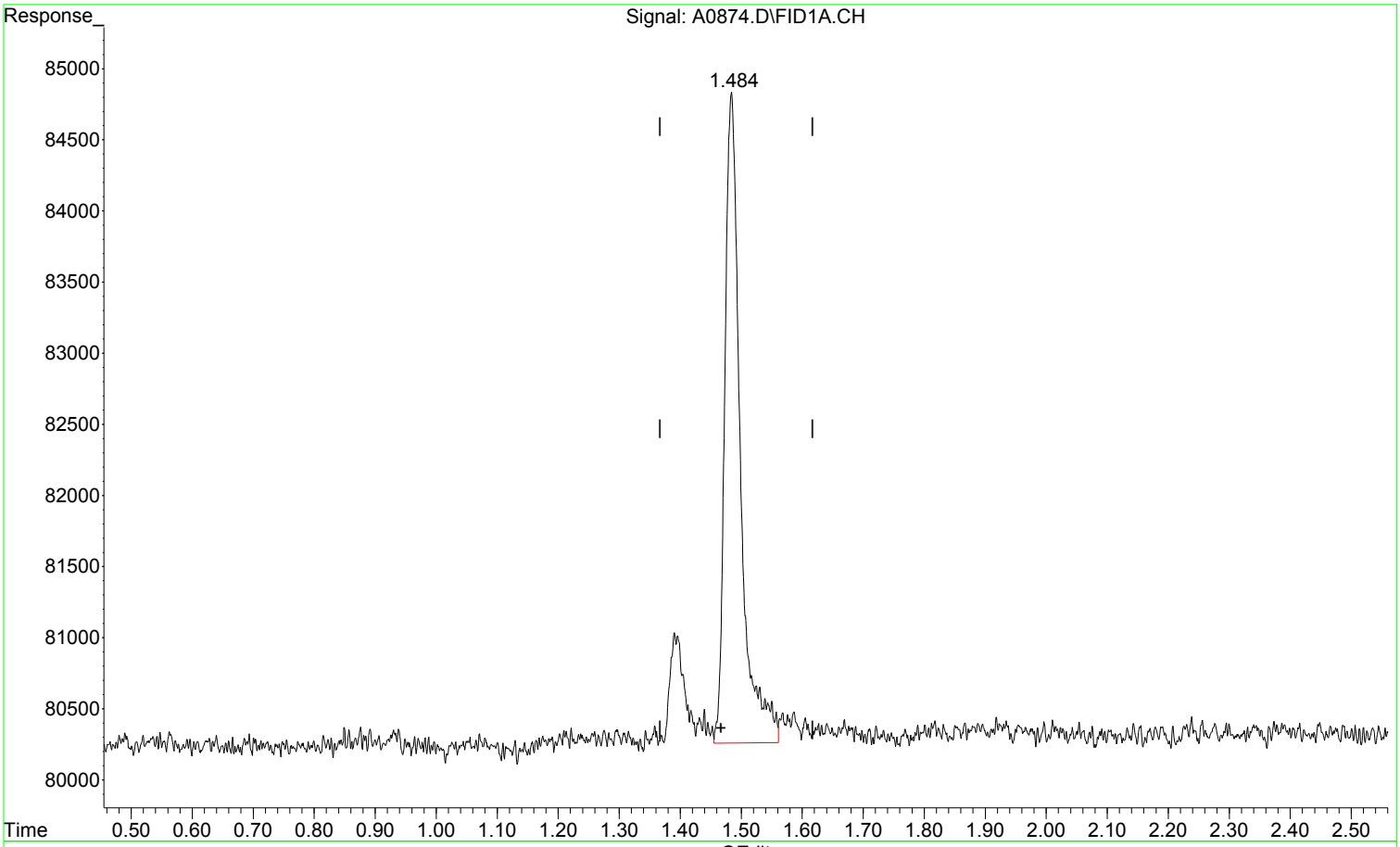
1st FN 09/03/24
2nd AM 09/03/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0874.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 2:19 pm
Operator : F.NAEGLER
Sample : R2408140-004
Misc : CEC 979 T4
ALS Vial : 24 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 14:29:10 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.484min 1.365 ug/L m

response 81384

Manual Integration:

After

Peak not found.

09/02/24

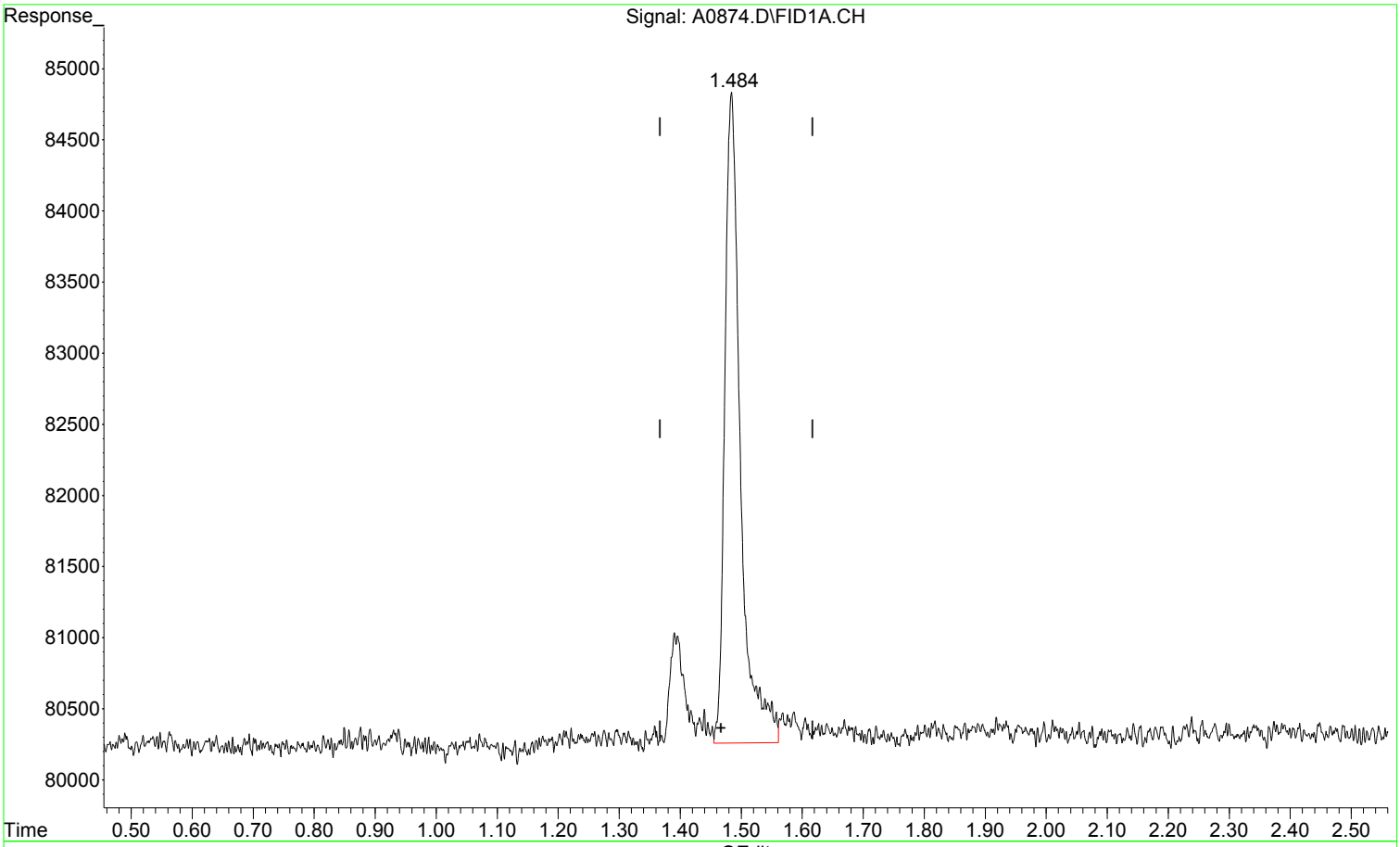
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0874.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 2:19 pm
Operator : F.NAEGLER
Sample : R2408140-004
Misc : CEC 979 T4
ALS Vial : 24 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 14:29:10 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.484min 1.365 ug/L m

response 81384

Manual Integration:

After

Poor integration.

09/02/24

(+) = Expected Retention Time

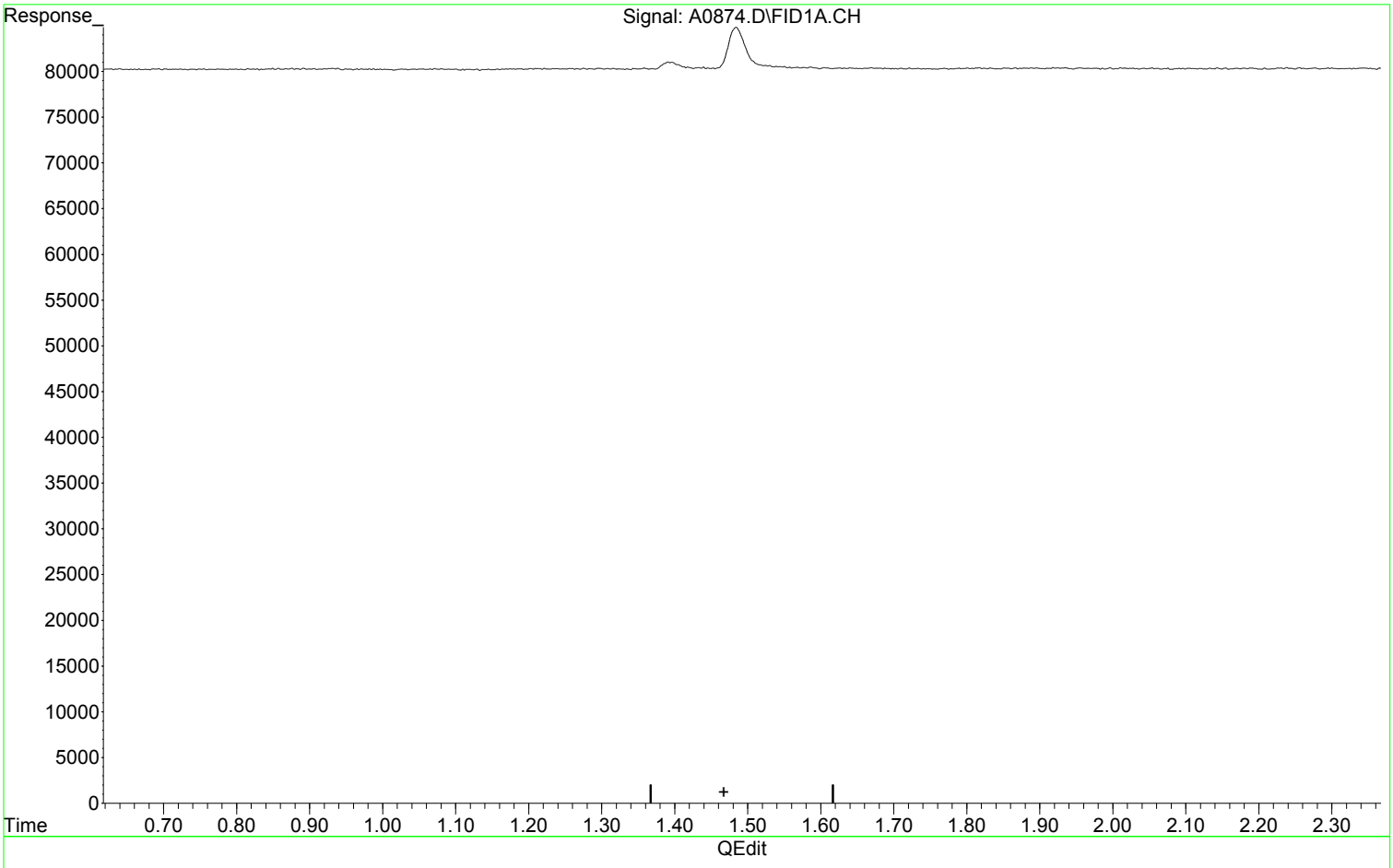
1st FJ 09/03/24
2nd AM 09/03/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0874.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 2:19 pm
Operator : F.NAEGLER
Sample : R2408140-004
Misc : CEC 979 T4
ALS Vial : 24 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 14:29:10 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.467min 0.000 ug/L

response 0

Manual Integration:

Before

09/02/24

(+) = Expected Retention Time

1st FJ 09/03/24
2nd AM 09/03/24

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0874.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 2:19 pm
Operator : F.NAEGLER
Sample : R2408140-004
Misc : CEC 979 T4
ALS Vial : 24 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 14:29:10 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.484	81384	1.365	ug/L	m
2)	Acetylene	0.000	0	N.D.	ug/L	
3)	Ethylene	0.000	0	N.D.	ug/L	
4)	Ethane	0.000	0	N.D.	ug/L	
5)	Propane	0.000	0	N.D.	ug/L	

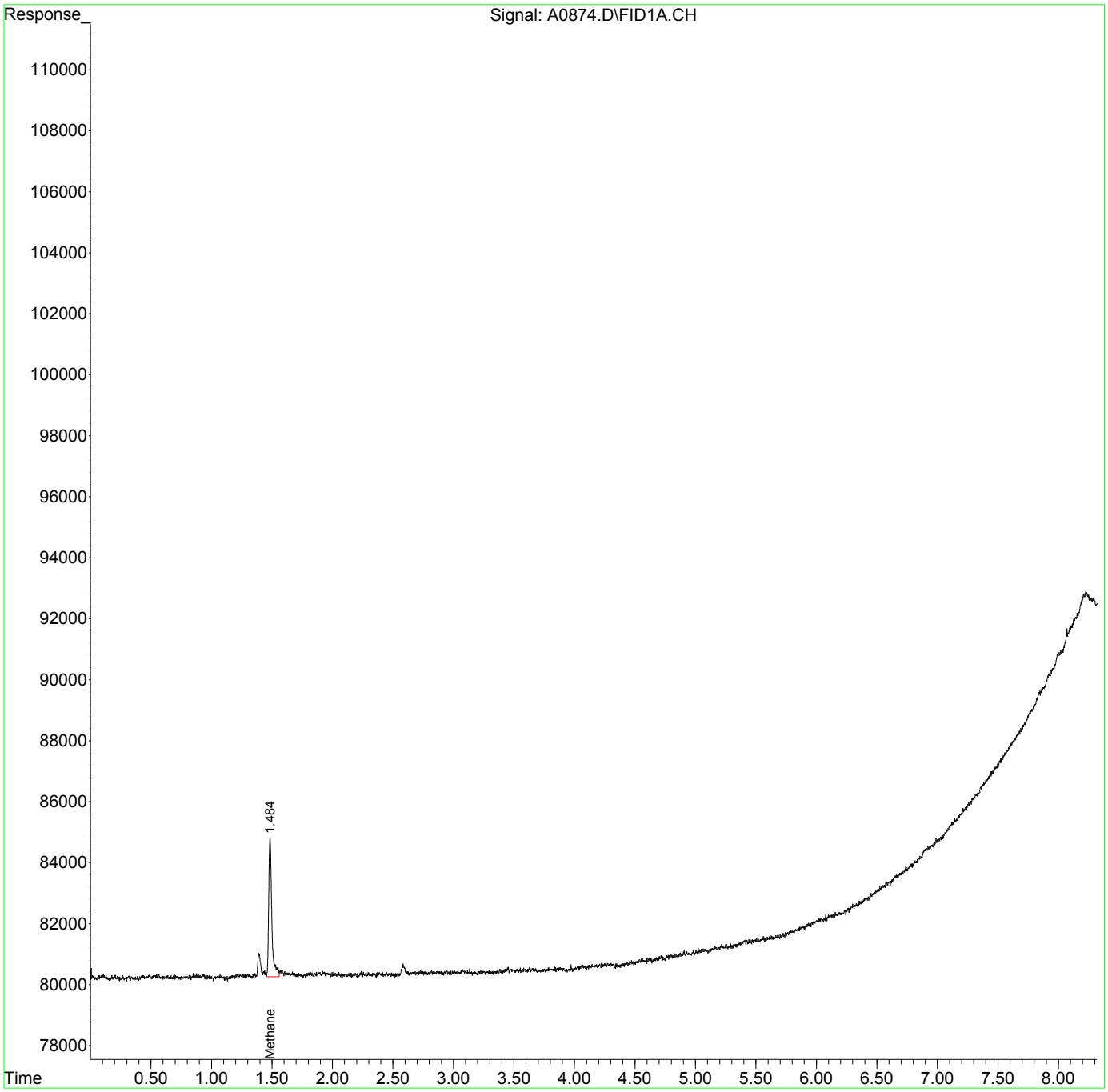
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0874.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 2:19 pm
Operator : F.NAEGLER
Sample : R2408140-004
Misc : CEC 979 T4
ALS Vial : 24 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 14:29:10 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



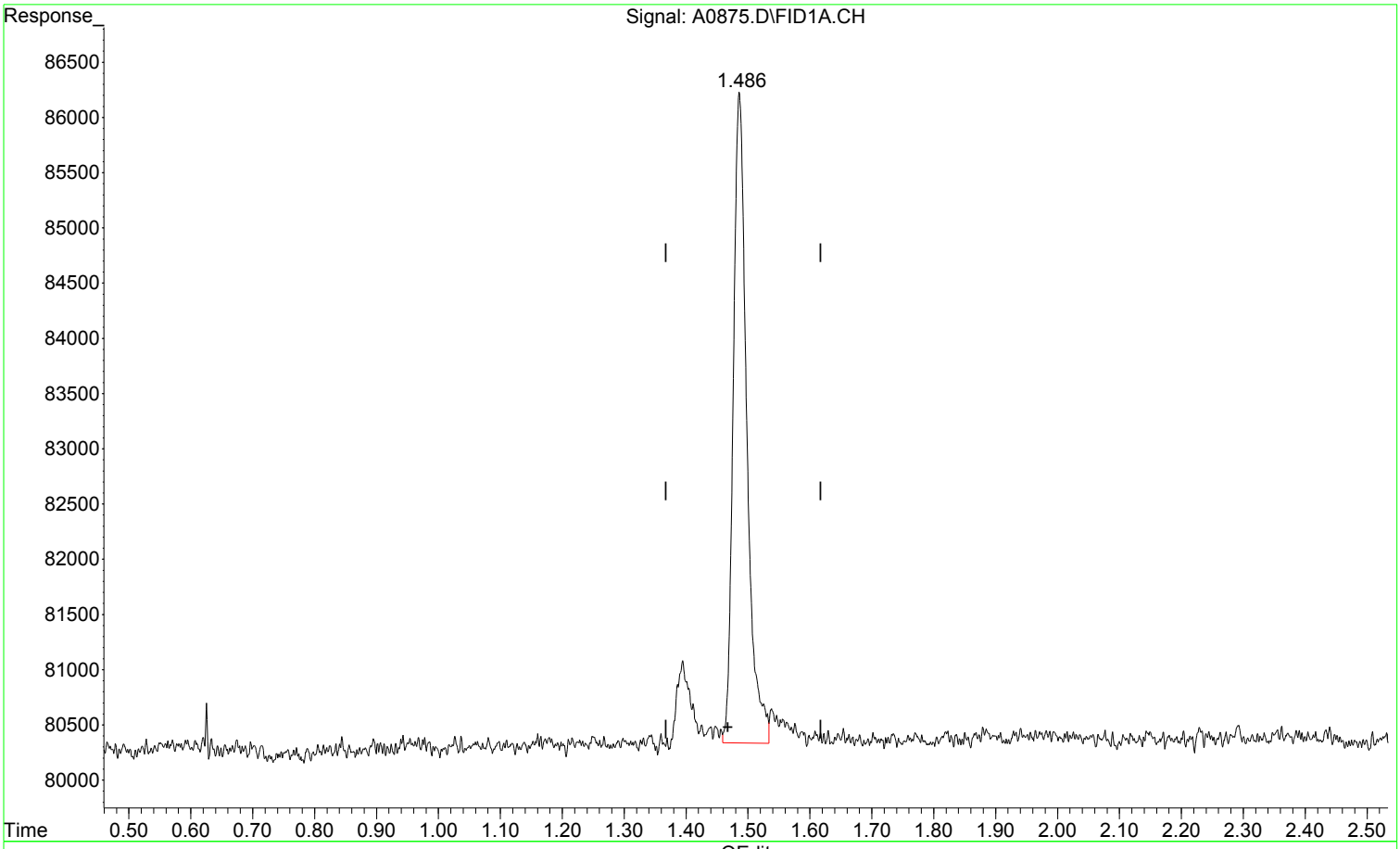
1st FN 09/03/24
2nd AM 09/03/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0875.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 2:30 pm
Operator : F.NAEGLER
Sample : R2408140-007
Misc : CEC 979 T4
ALS Vial : 25 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 14:40:02 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.486min 1.507 ug/L m

response 89832

Manual Integration:

After

Peak not found.

09/02/24

(+) = Expected Retention Time

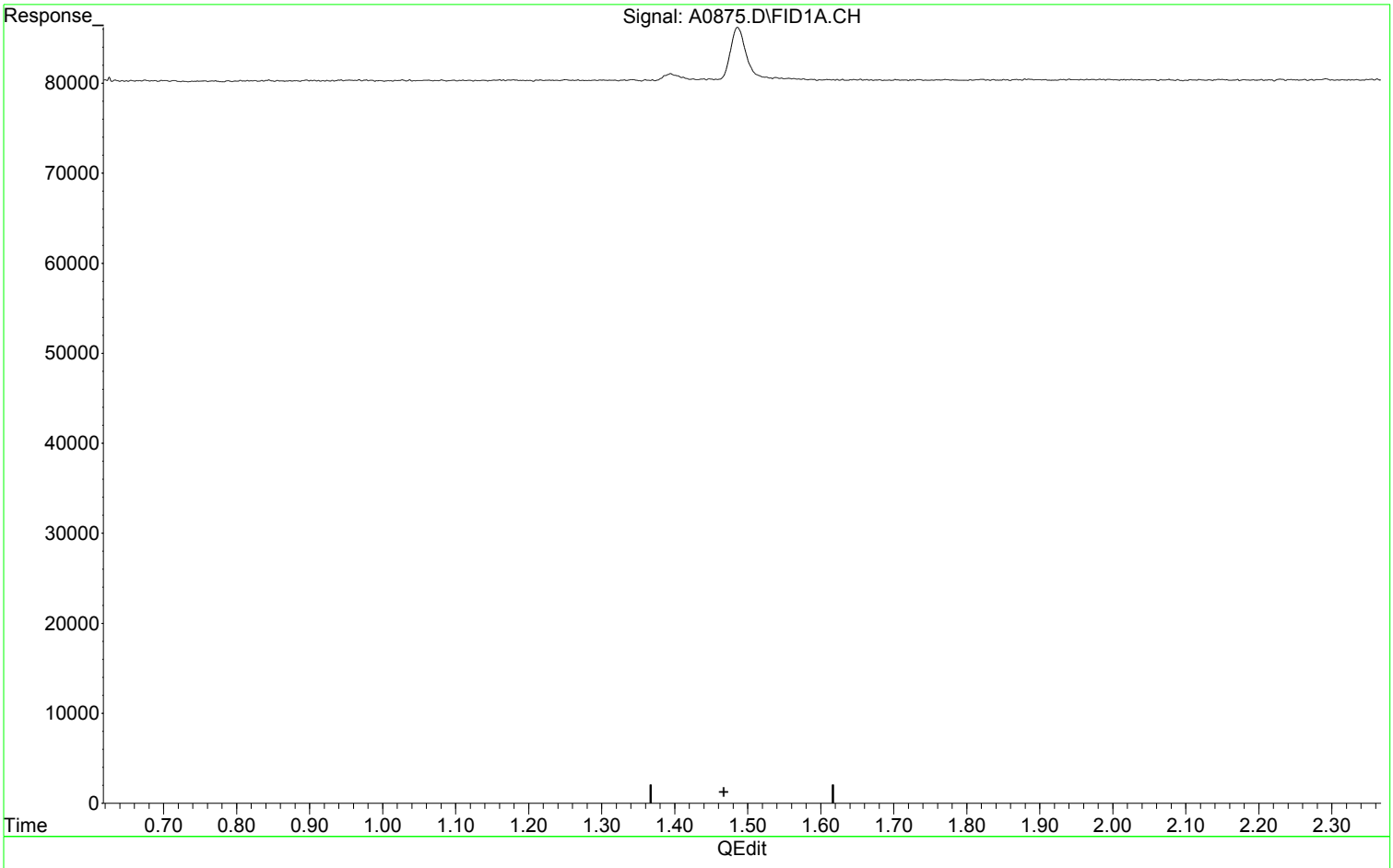
1st FJ 09/03/24
2nd AM 09/03/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0875.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 2:30 pm
Operator : F.NAEGLER
Sample : R2408140-007
Misc : CEC 979 T4
ALS Vial : 25 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 14:40:02 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.467min 0.000 ug/L

response 0

Manual Integration:

Before

09/02/24

(+) = Expected Retention Time

1st FJ 09/03/24
2nd AM 09/03/24

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0875.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 2:30 pm
Operator : F.NAEGLER
Sample : R2408140-007
Misc : CEC 979 T4
ALS Vial : 25 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 14:40:02 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.486	89832	1.507	ug/L	m
2)	Acetylene	0.000	0	N.D.	ug/L	
3)	Ethylene	0.000	0	N.D.	ug/L	
4)	Ethane	0.000	0	N.D.	ug/L	
5)	Propane	0.000	0	N.D.	ug/L	

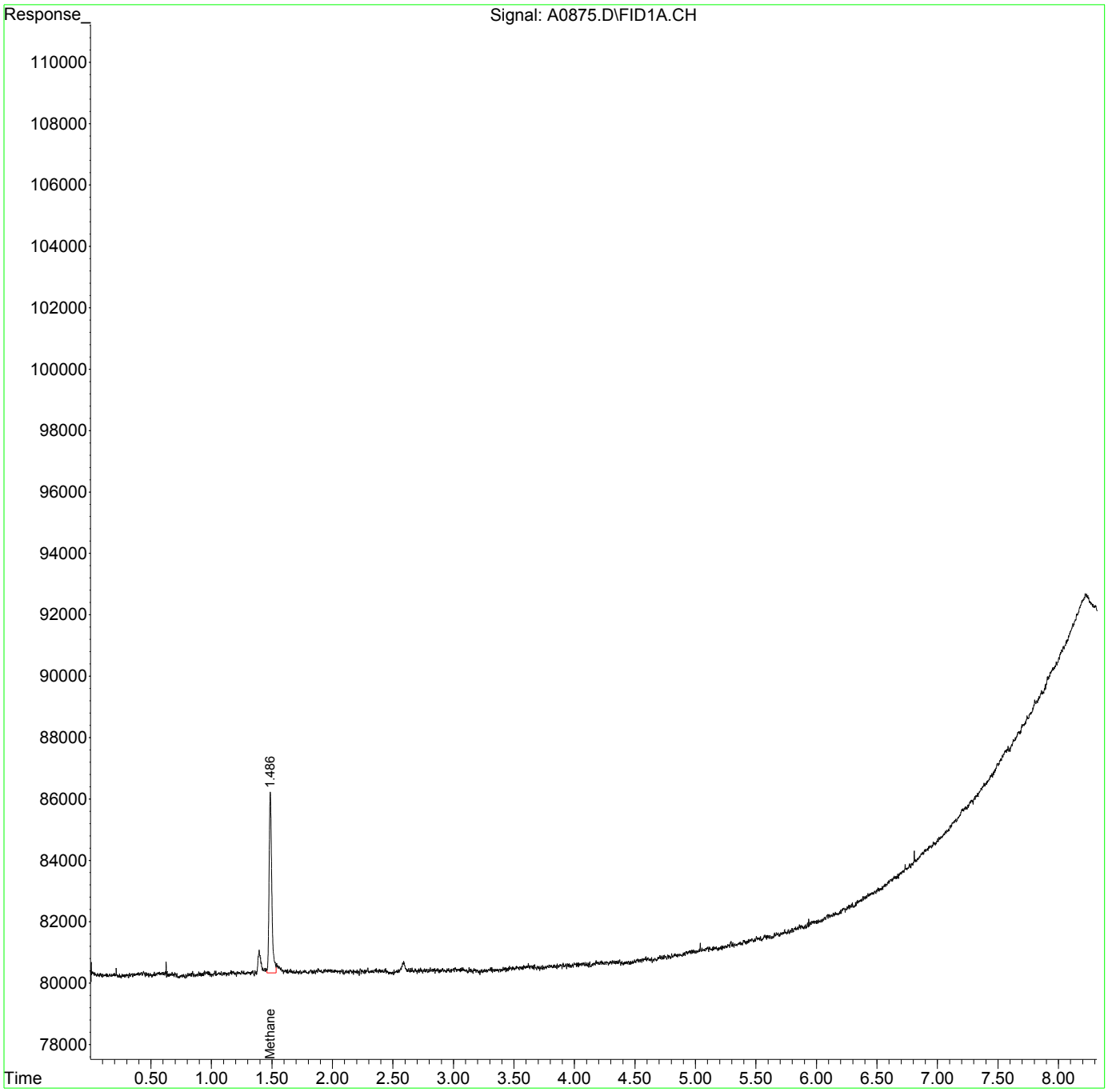
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0875.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 2:30 pm
Operator : F.NAEGLER
Sample : R2408140-007
Misc : CEC 979 T4
ALS Vial : 25 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 14:40:02 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

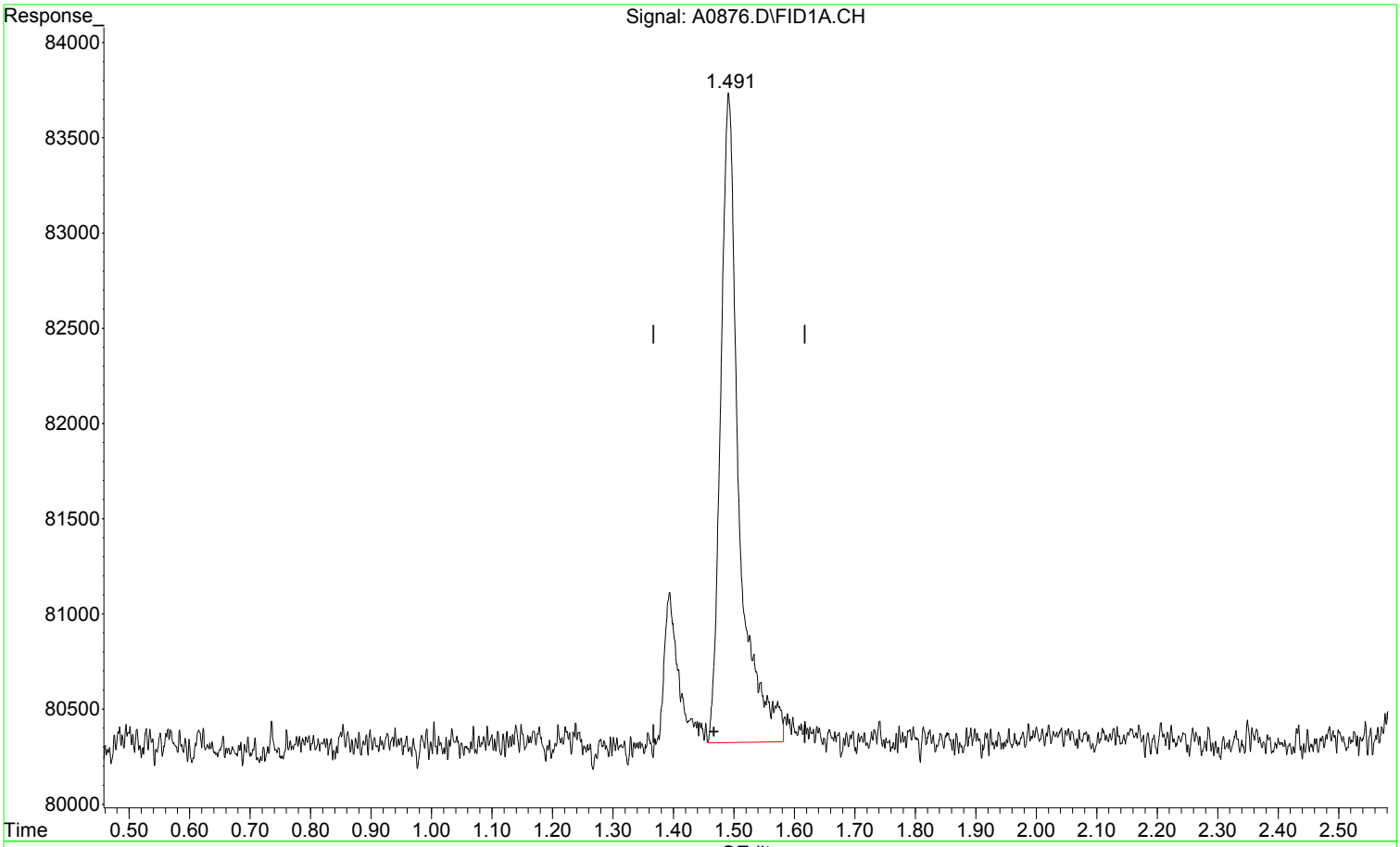


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0876.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 2:43 pm
Operator : F.NAEGLER
Sample : R2408140-008
Misc : CEC 979 T4
ALS Vial : 26 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 14:52:22 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.491min 1.196 ug/L m

response 71289

Manual Integration:

After

Peak not found.

09/02/24

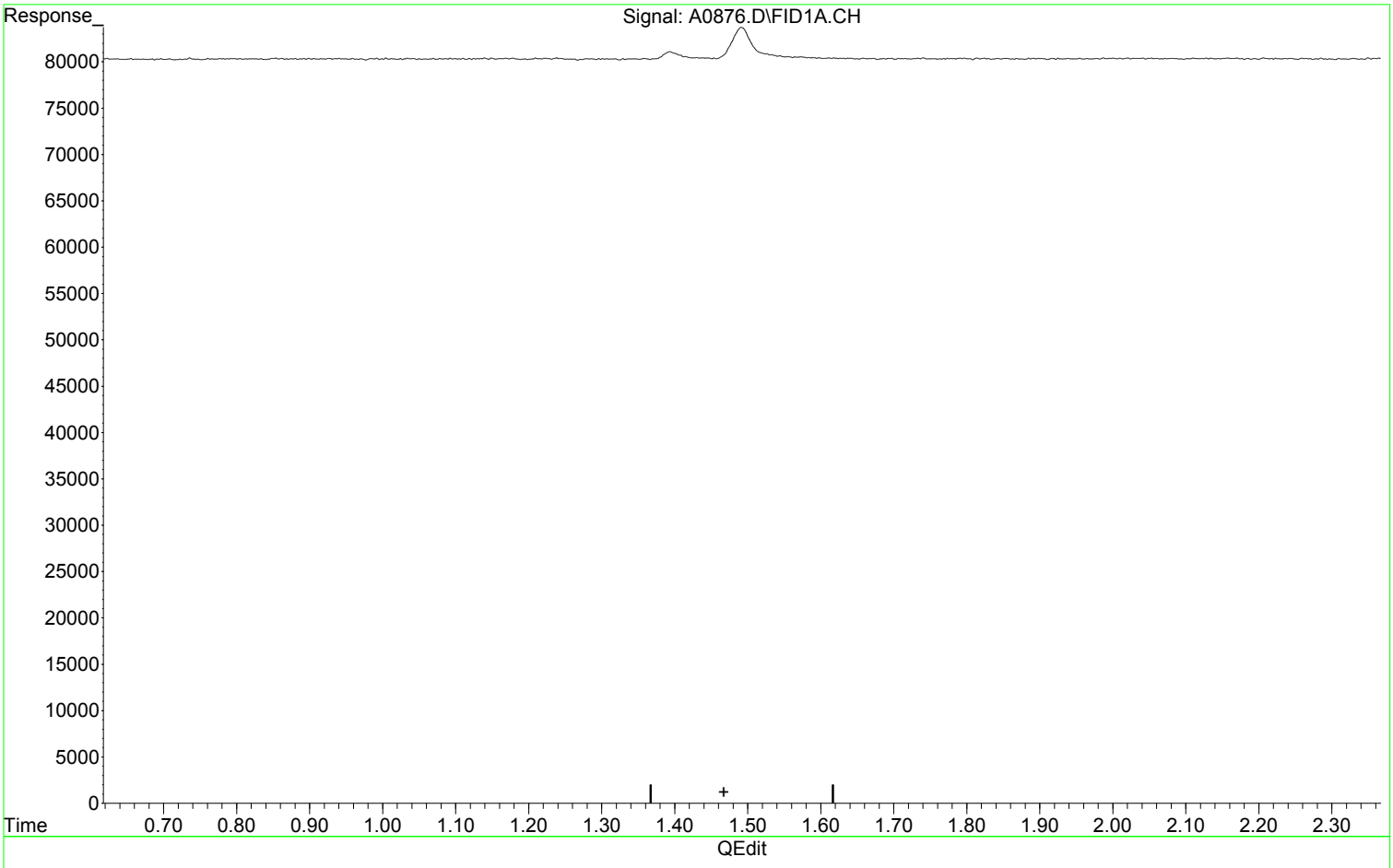
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0876.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 2:43 pm
Operator : F.NAEGLER
Sample : R2408140-008
Misc : CEC 979 T4
ALS Vial : 26 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 14:52:22 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.467min 0.000 ug/L

response 0

Manual Integration:

Before

09/02/24

(+) = Expected Retention Time

1st FJ 09/03/24
2nd AM 09/03/24

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0876.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 2:43 pm
Operator : F.NAEGLER
Sample : R2408140-008
Misc : CEC 979 T4
ALS Vial : 26 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 14:52:22 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.491	71289	1.196	ug/L	m
2)	Acetylene	0.000	0	N.D.	ug/L	
3)	Ethylene	0.000	0	N.D.	ug/L	
4)	Ethane	0.000	0	N.D.	ug/L	
5)	Propane	0.000	0	N.D.	ug/L	

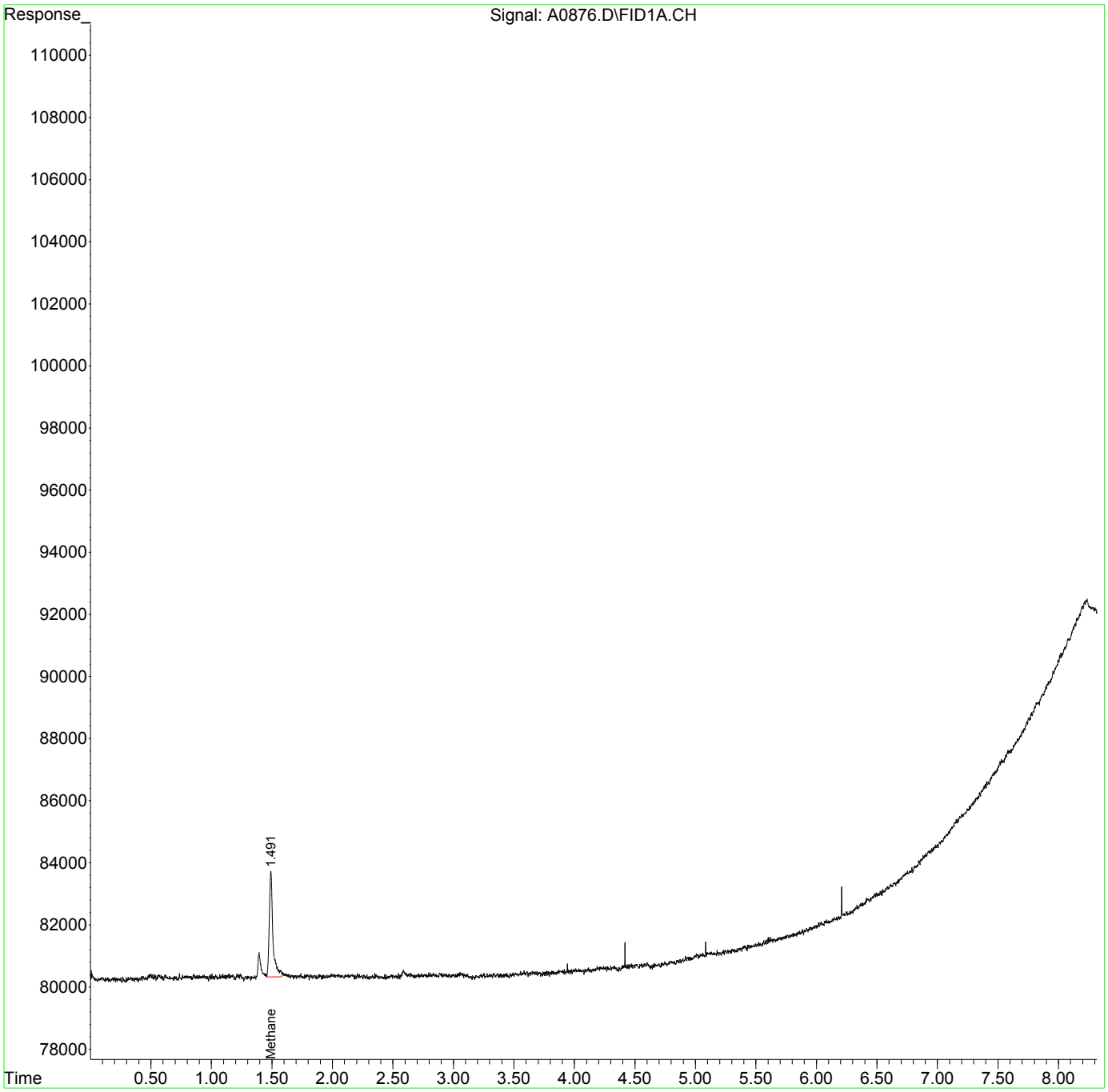
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0876.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 2:43 pm
Operator : F.NAEGLER
Sample : R2408140-008
Misc : CEC 979 T4
ALS Vial : 26 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 14:52:22 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

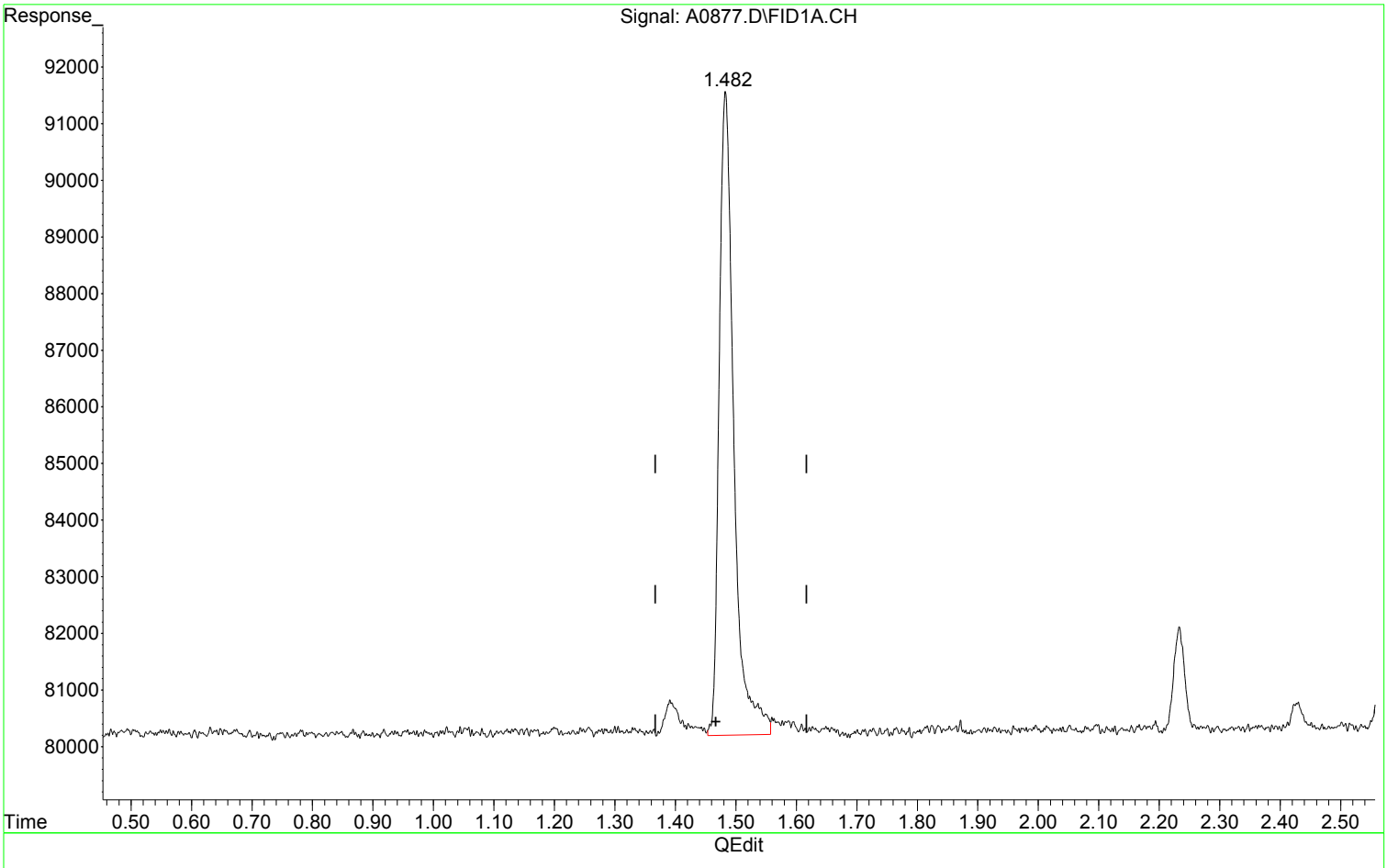


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0877.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 2:55 pm
Operator : F.NAEGLER
Sample : R2408140-010
Misc : CEC 979 T4
ALS Vial : 27 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 15:04:00 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.482min 3.202 ug/L m

response 190894

Manual Integration:

After

Peak not found.

09/02/24

(+) = Expected Retention Time

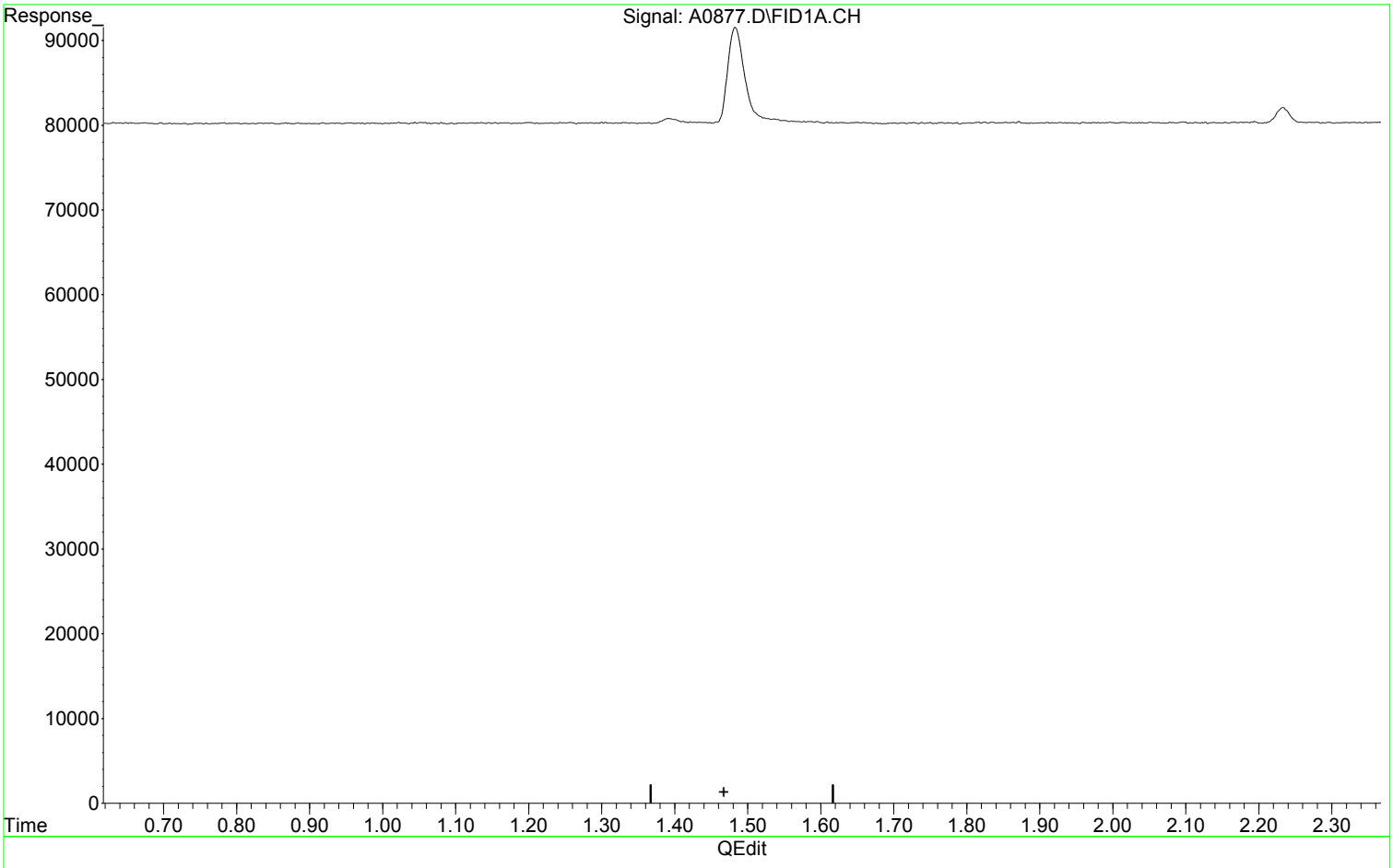
1st FJ 09/03/24
2nd AM 09/03/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0877.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 2:55 pm
Operator : F.NAEGLER
Sample : R2408140-010
Misc : CEC 979 T4
ALS Vial : 27 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 15:04:00 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.467min 0.000 ug/L

response 0

Manual Integration:

Before

09/02/24

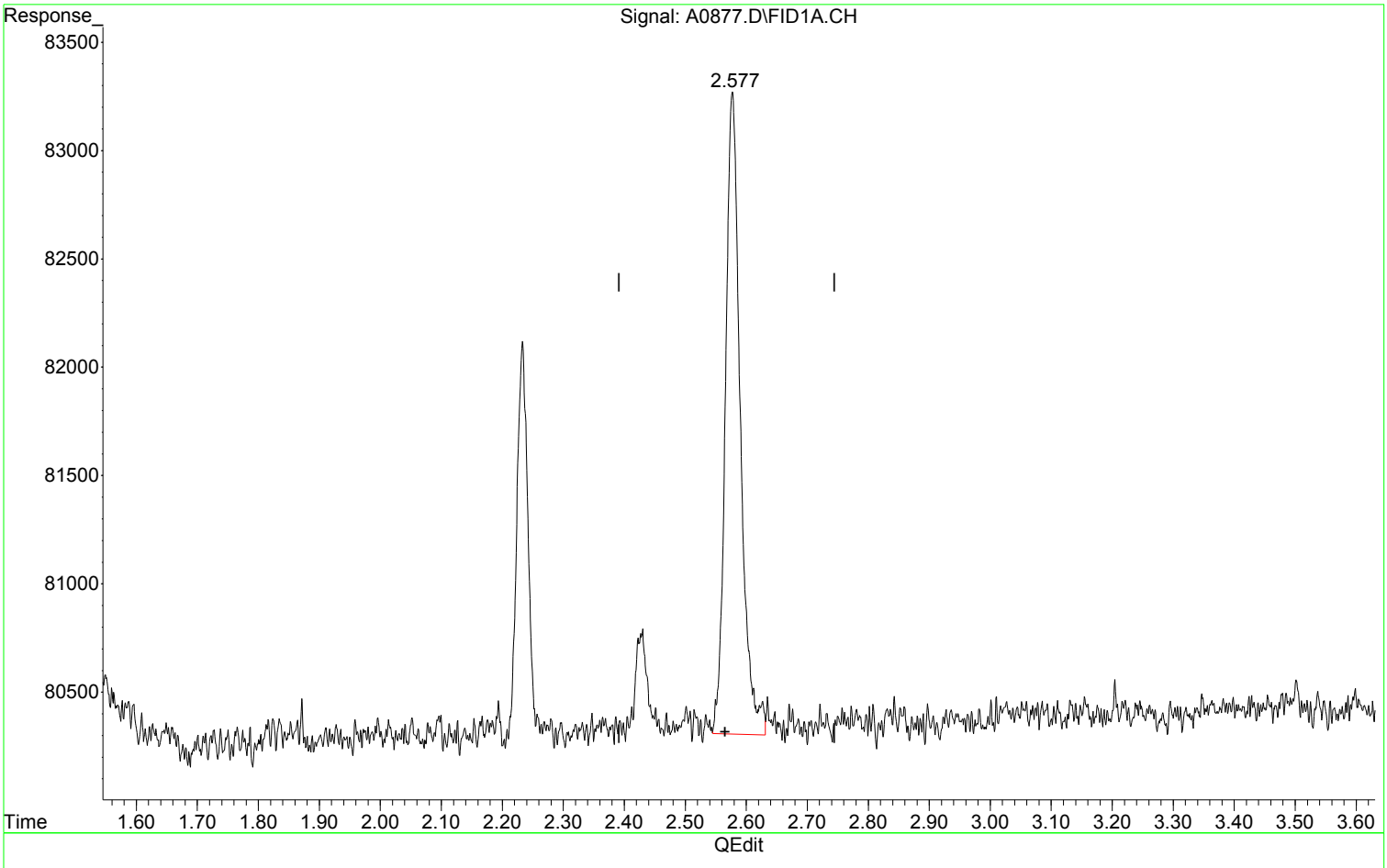
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0877.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 2:55 pm
Operator : F.NAEGLER
Sample : R2408140-010
Misc : CEC 979 T4
ALS Vial : 27 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 15:04:00 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.577min 0.930 ug/L m
response 50311

Manual Integration:
After
Peak not found.
09/02/24

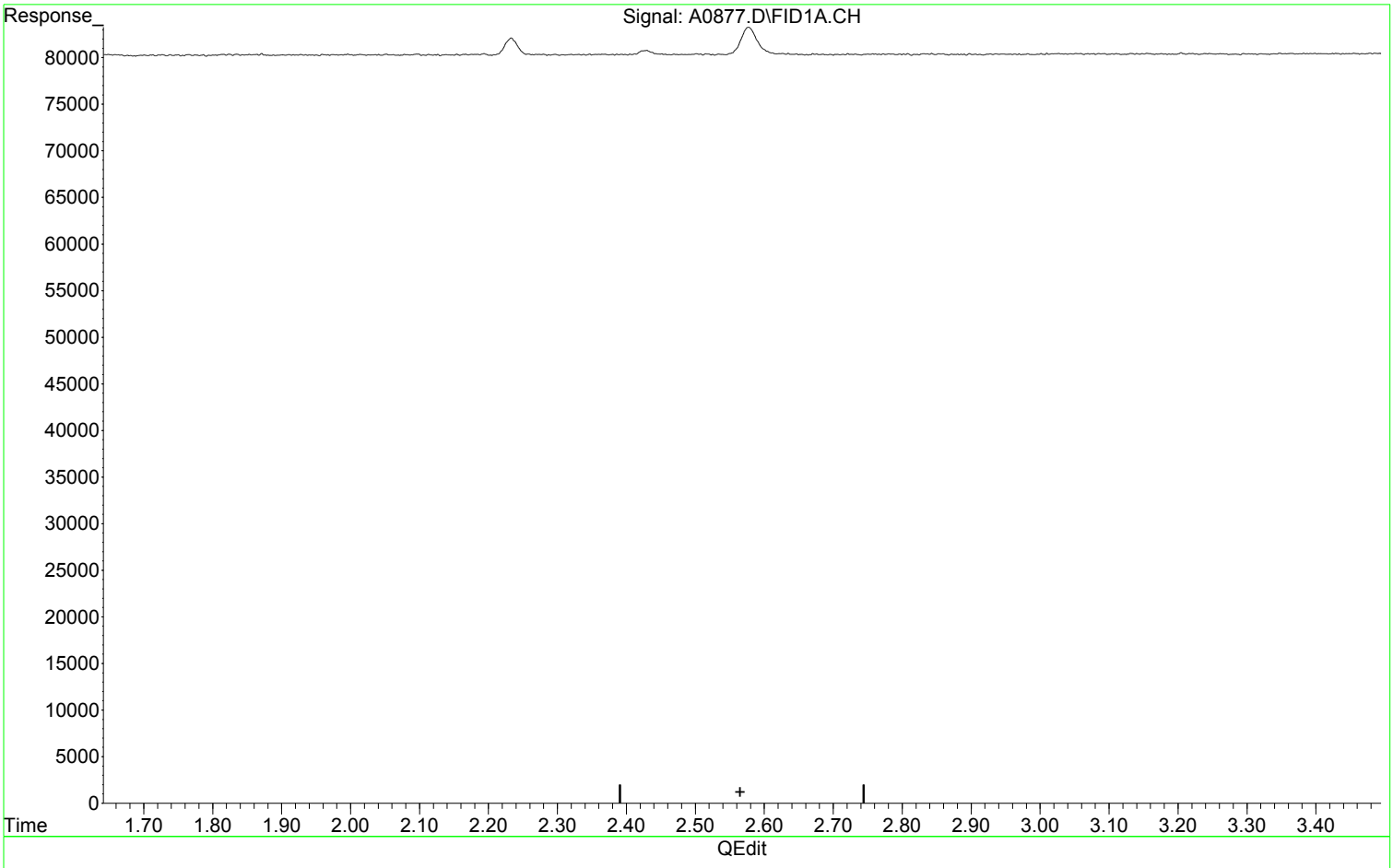
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0877.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 2:55 pm
Operator : F.NAEGLER
Sample : R2408140-010
Misc : CEC 979 T4
ALS Vial : 27 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 15:04:00 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.565min 0.000 ug/L
response 0

Manual Integration:
Before

09/02/24

(+) = Expected Retention Time

1st FJ 09/03/24
2nd AM 09/03/24

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0877.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 2:55 pm
Operator : F.NAEGLER
Sample : R2408140-010
Misc : CEC 979 T4
ALS Vial : 27 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 15:04:00 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.482	190894	3.202 ug/L m
2)	Acetylene	0.000	0	N.D. ug/L
3)	Ethylene	0.000	0	N.D. ug/L
4)	Ethane	2.577	50311	0.930 ug/L m
5)	Propane	0.000	0	N.D. ug/L

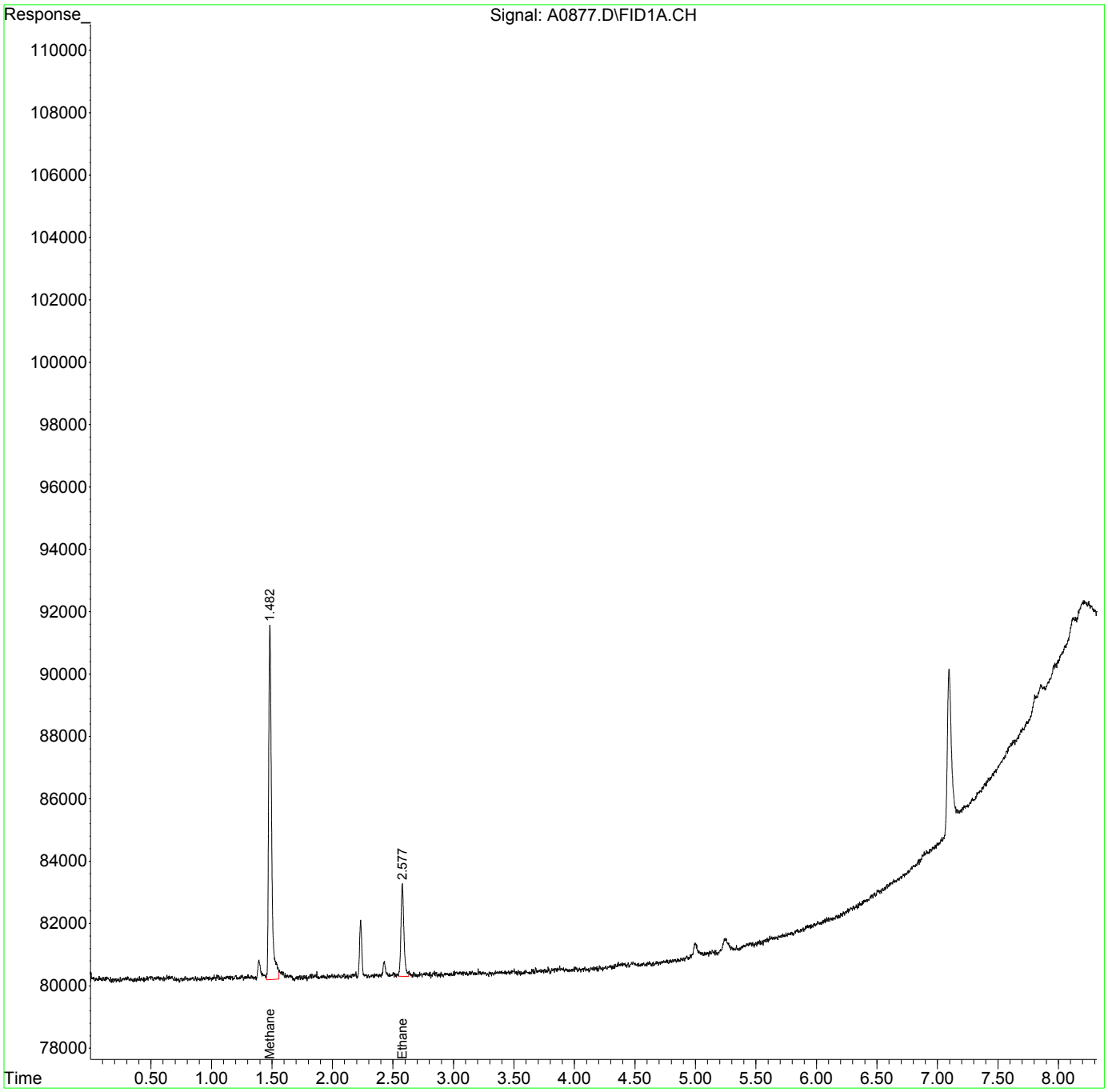
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0877.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 2:55 pm
Operator : F.NAEGLER
Sample : R2408140-010
Misc : CEC 979 T4
ALS Vial : 27 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 15:04:00 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



1st FN 09/03/24
2nd 09/03/24

Data Path : I:\ACQUDATA\GC-70\DATA\090324\
Data File : A0887.D
Signal(s) : FID1A.CH
Acq On : 03 Sep 2024 12:31 pm
Operator : F.NAEGLER
Sample : R2408140-011|10.0
Misc : CEC 979 T4
ALS Vial : 9 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 03 12:40:27 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.476	25078587	420.676	ug/L
2)	Acetylene	0.000	0	N.D.	ug/L
3)	Ethylene	0.000	0	N.D.	ug/L
4)	Ethane	0.000	0	N.D.	ug/L
5)	Propane	0.000	0	N.D.	ug/L

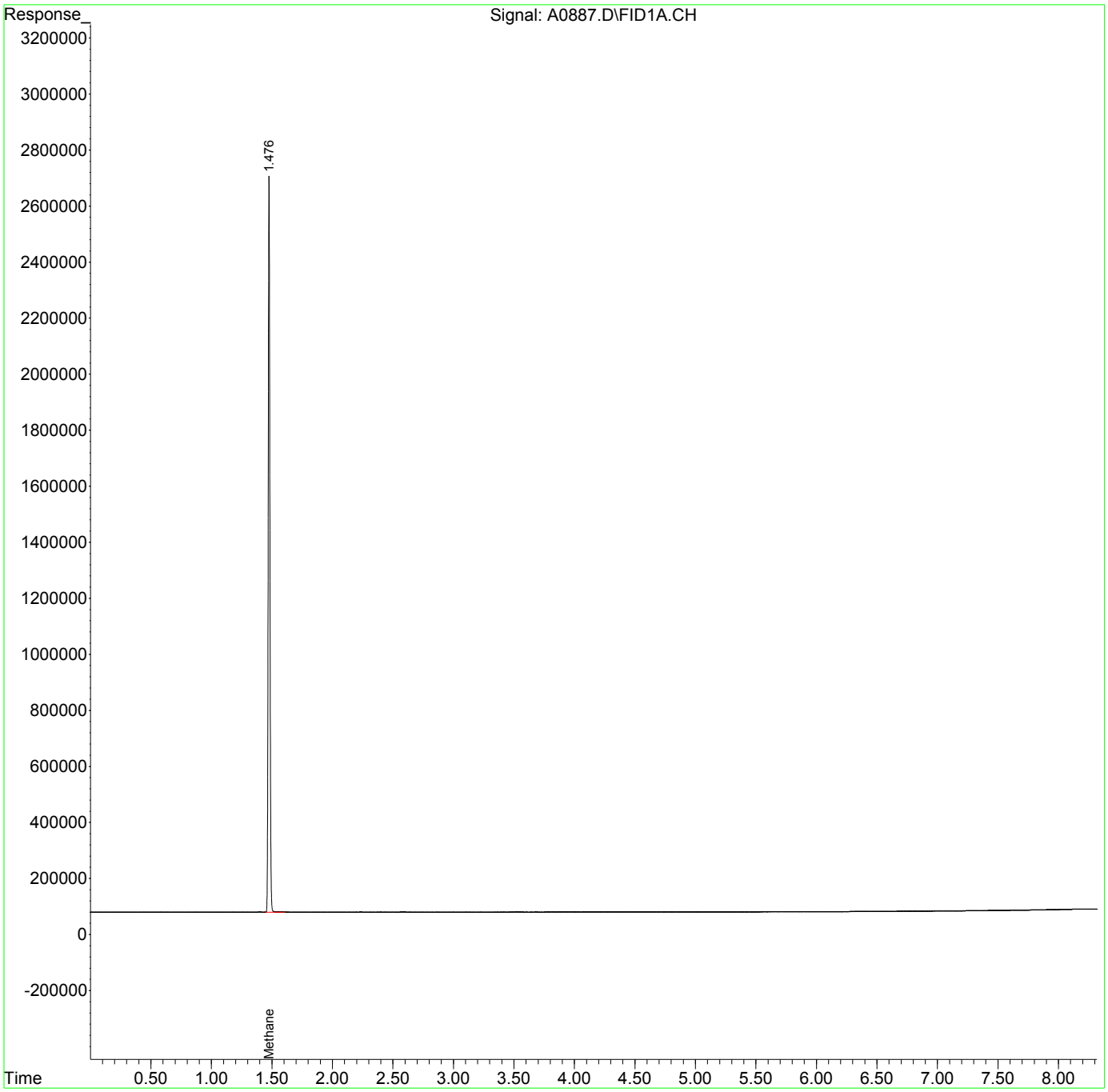
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090324\
Data File : A0887.D
Signal(s) : FID1A.CH
Acq On : 03 Sep 2024 12:31 pm
Operator : F.NAEGLER
Sample : R2408140-011|10.0
Misc : CEC 979 T4
ALS Vial : 9 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 03 12:40:27 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



1st FN 09/03/24
2nd 09/03/24

Data Path : I:\ACQUDATA\GC-70\DATA\090324\
Data File : A0888.D
Signal(s) : FID1A.CH
Acq On : 03 Sep 2024 12:42 pm
Operator : F.NAEGLER
Sample : R2408140-012|20.0
Misc : CEC 979 T4
ALS Vial : 10 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 03 12:52:42 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.472	24910403	417.855	ug/L
2)	Acetylene	0.000	0	N.D.	ug/L
3)	Ethylene	0.000	0	N.D.	ug/L
4)	Ethane	0.000	0	N.D.	ug/L
5)	Propane	0.000	0	N.D.	ug/L

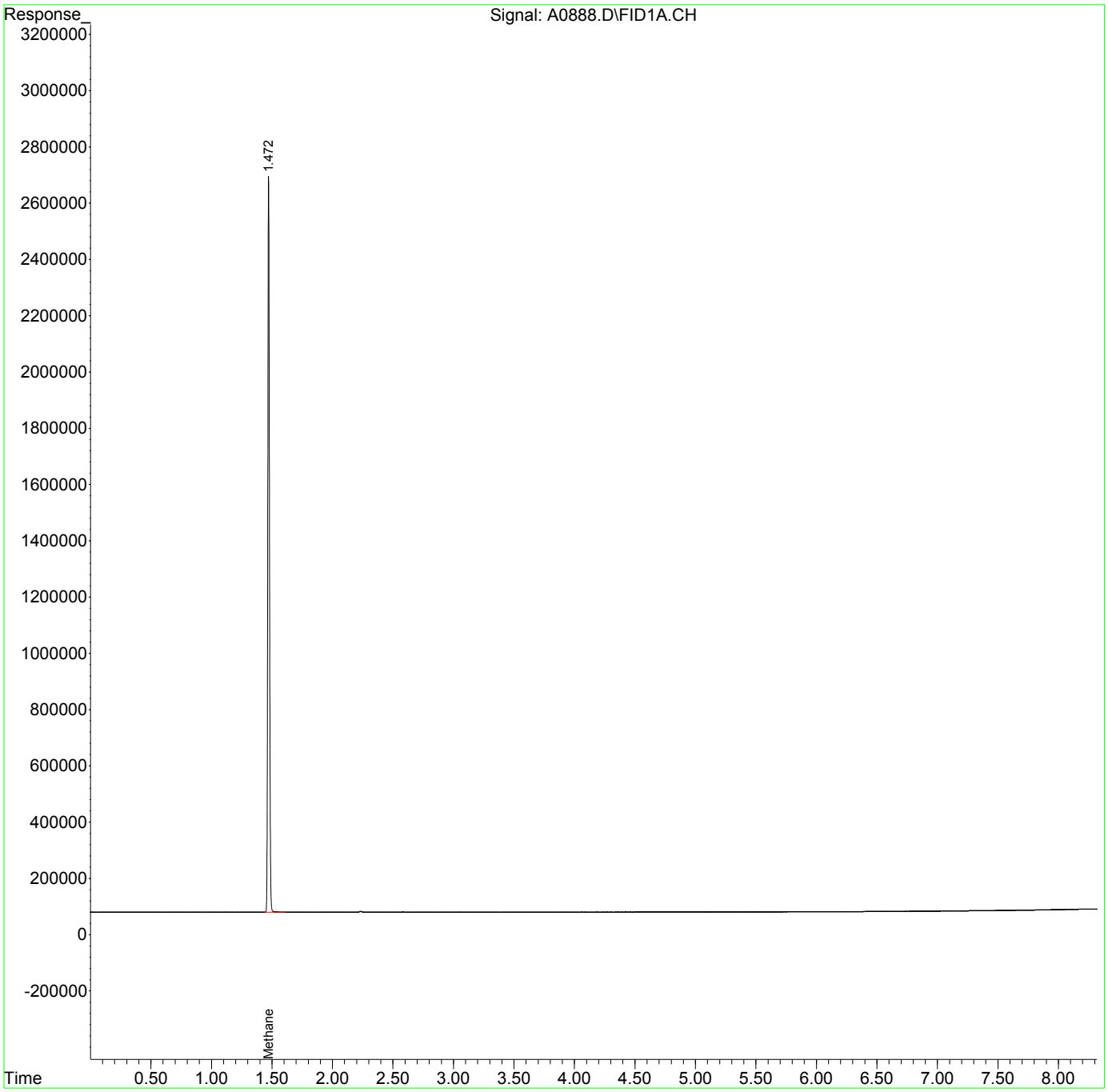
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090324\
Data File : A0888.D
Signal(s) : FID1A.CH
Acq On : 03 Sep 2024 12:42 pm
Operator : F.NAEGLER
Sample : R2408140-012|20.0
Misc : CEC 979 T4
ALS Vial : 10 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 03 12:52:42 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090324\
Data File : A0889.D
Signal(s) : FID1A.CH
Acq On : 03 Sep 2024 12:54 pm
Operator : F.NAEGLER
Sample : R2408140-013|20.0
Misc : CEC 979 T4
ALS Vial : 11 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 03 13:03:55 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.481	19719270	330.777	ug/L
2)	Acetylene	0.000	0	N.D.	ug/L
3)	Ethylene	0.000	0	N.D.	ug/L
4)	Ethane	0.000	0	N.D.	ug/L
5)	Propane	0.000	0	N.D.	ug/L

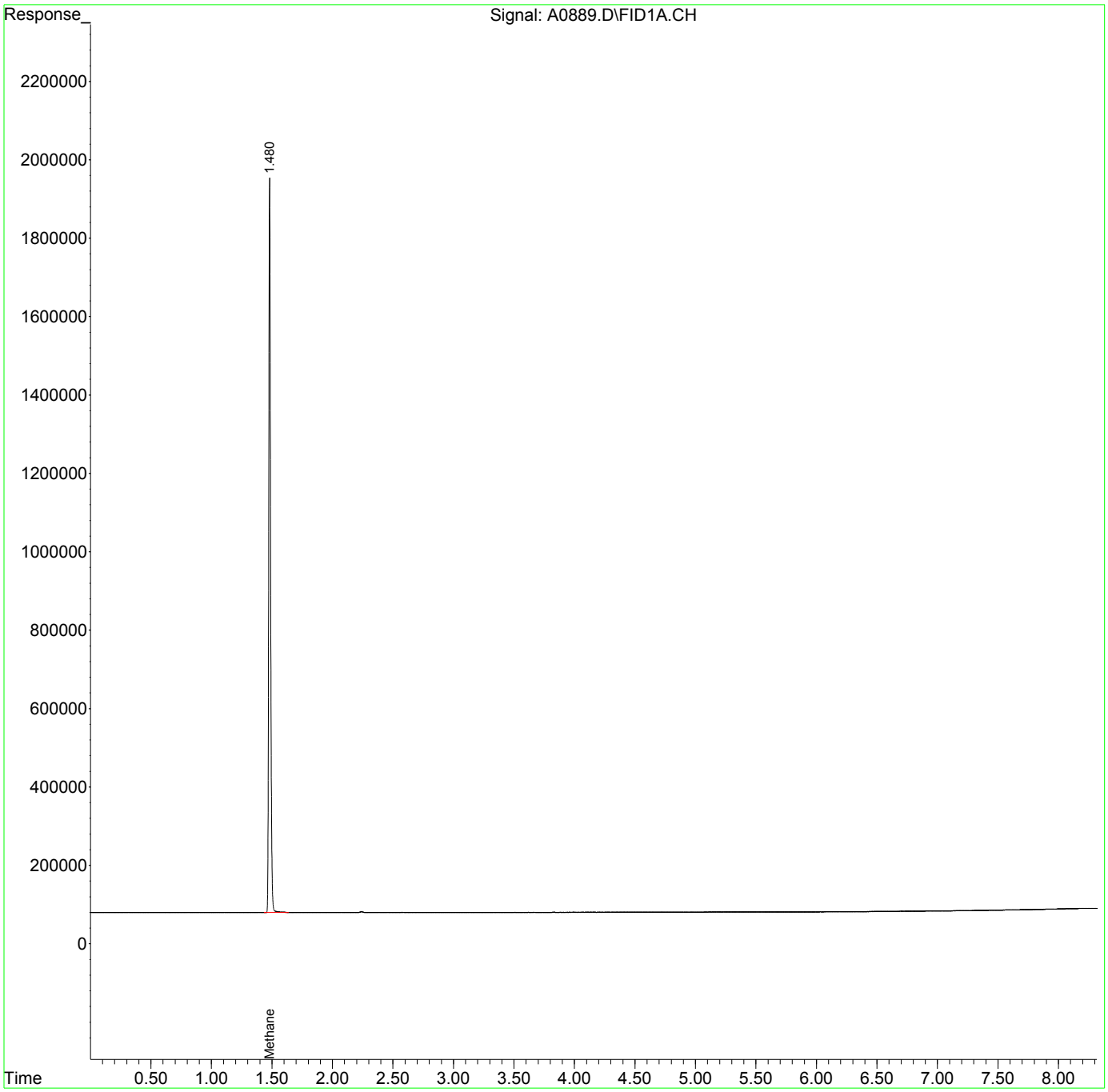
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090324\
Data File : A0889.D
Signal(s) : FID1A.CH
Acq On : 03 Sep 2024 12:54 pm
Operator : F.NAEGLER
Sample : R2408140-013|20.0
Misc : CEC 979 T4
ALS Vial : 11 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 03 13:03:55 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



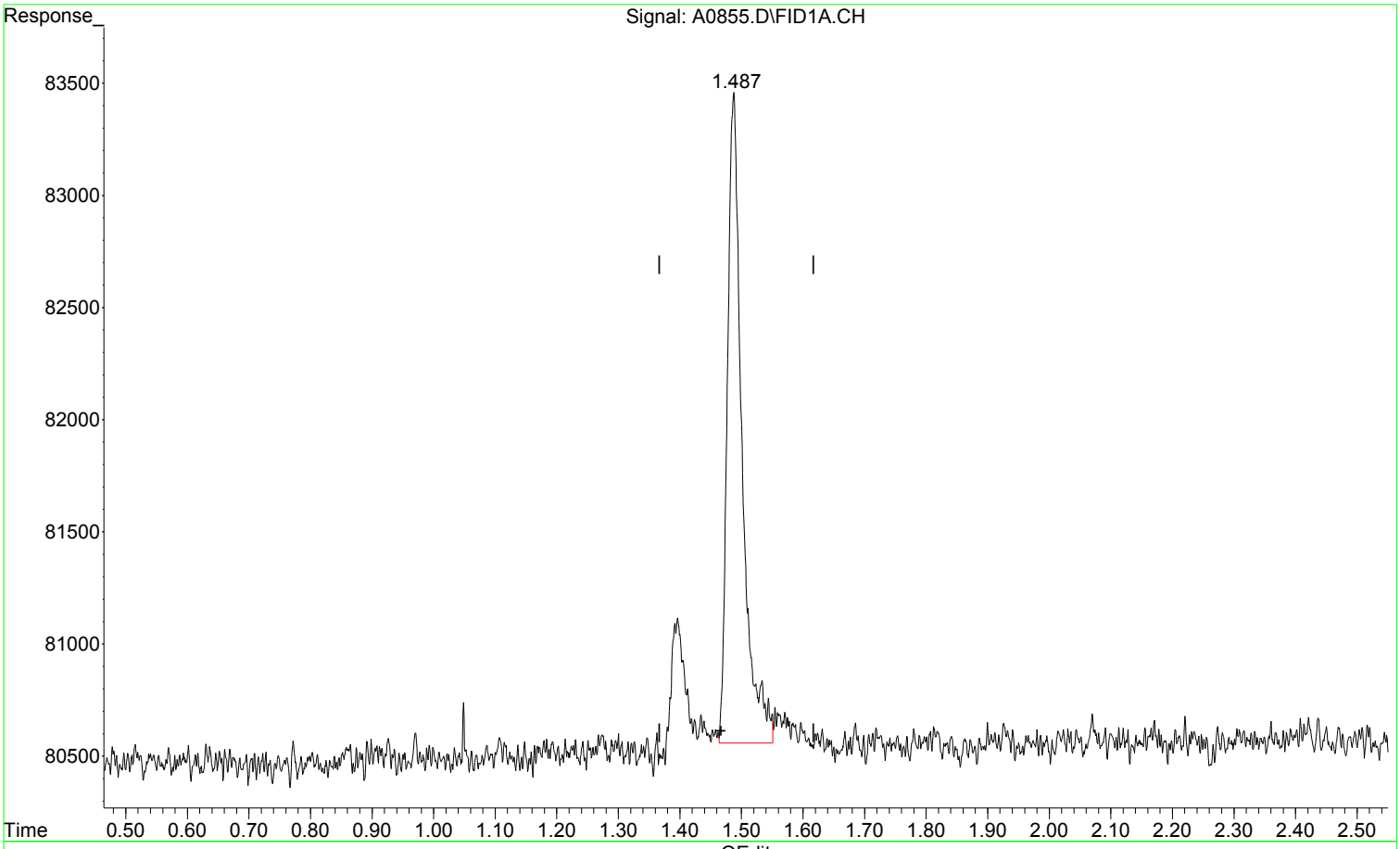
1st FJ 09/03/24
2nd AM 09/03/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0855.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 10:09 am
Operator : F.NAEGLER
Sample : MBLK
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 10:18:14 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.487min 0.805 ug/L m

response 48018

Manual Integration:

After

Peak not found.

09/02/24

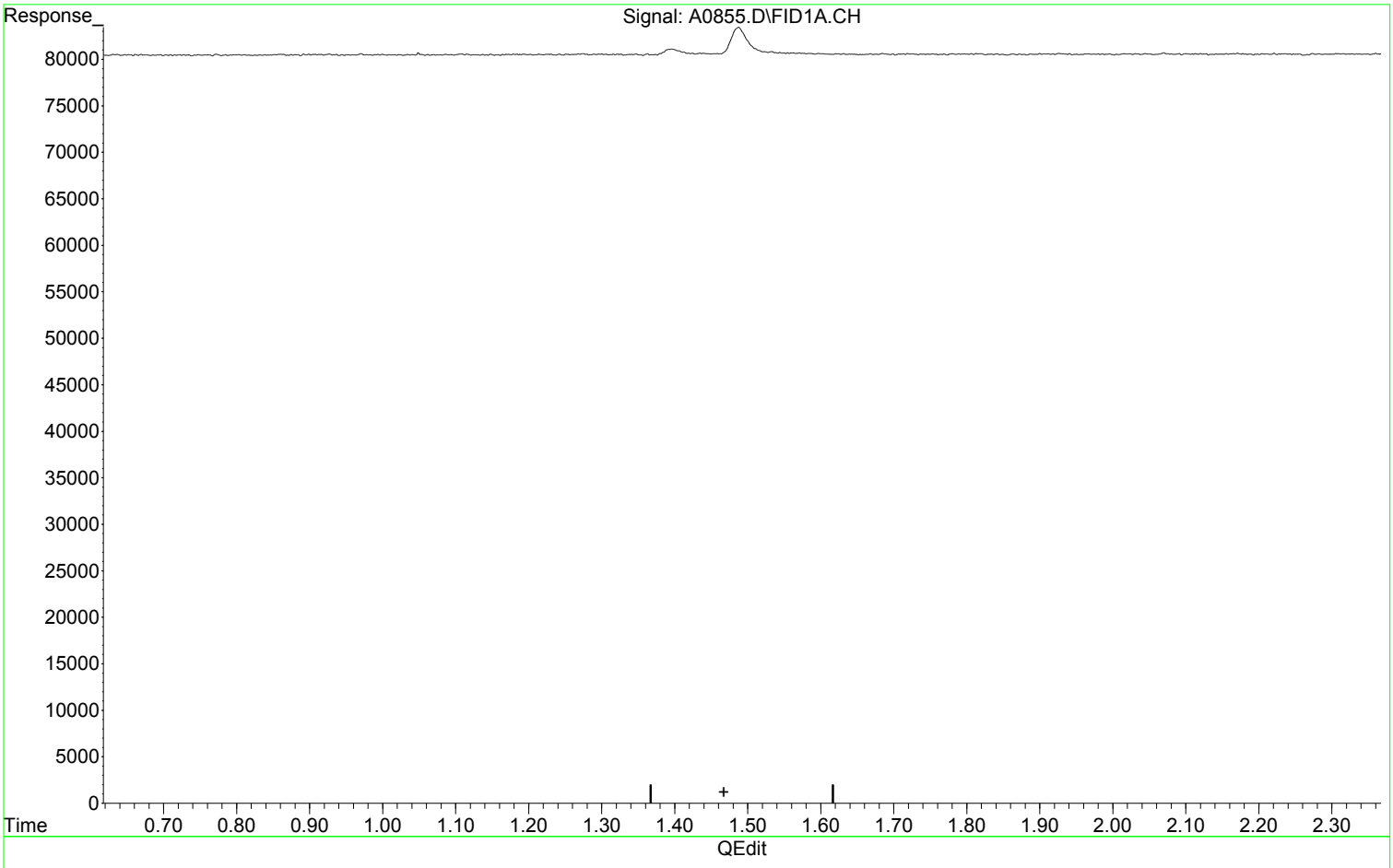
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0855.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 10:09 am
Operator : F.NAEGLER
Sample : MBLK
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 10:18:14 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.467min 0.000 ug/L

response 0

Manual Integration:

Before

09/02/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0855.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 10:09 am
Operator : F.NAEGLER
Sample : MBLK
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 10:18:14 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.487	48018	0.805	ug/L	m
2)	Acetylene	0.000	0	N.D.	ug/L	
3)	Ethylene	0.000	0	N.D.	ug/L	
4)	Ethane	0.000	0	N.D.	ug/L	
5)	Propane	0.000	0	N.D.	ug/L	

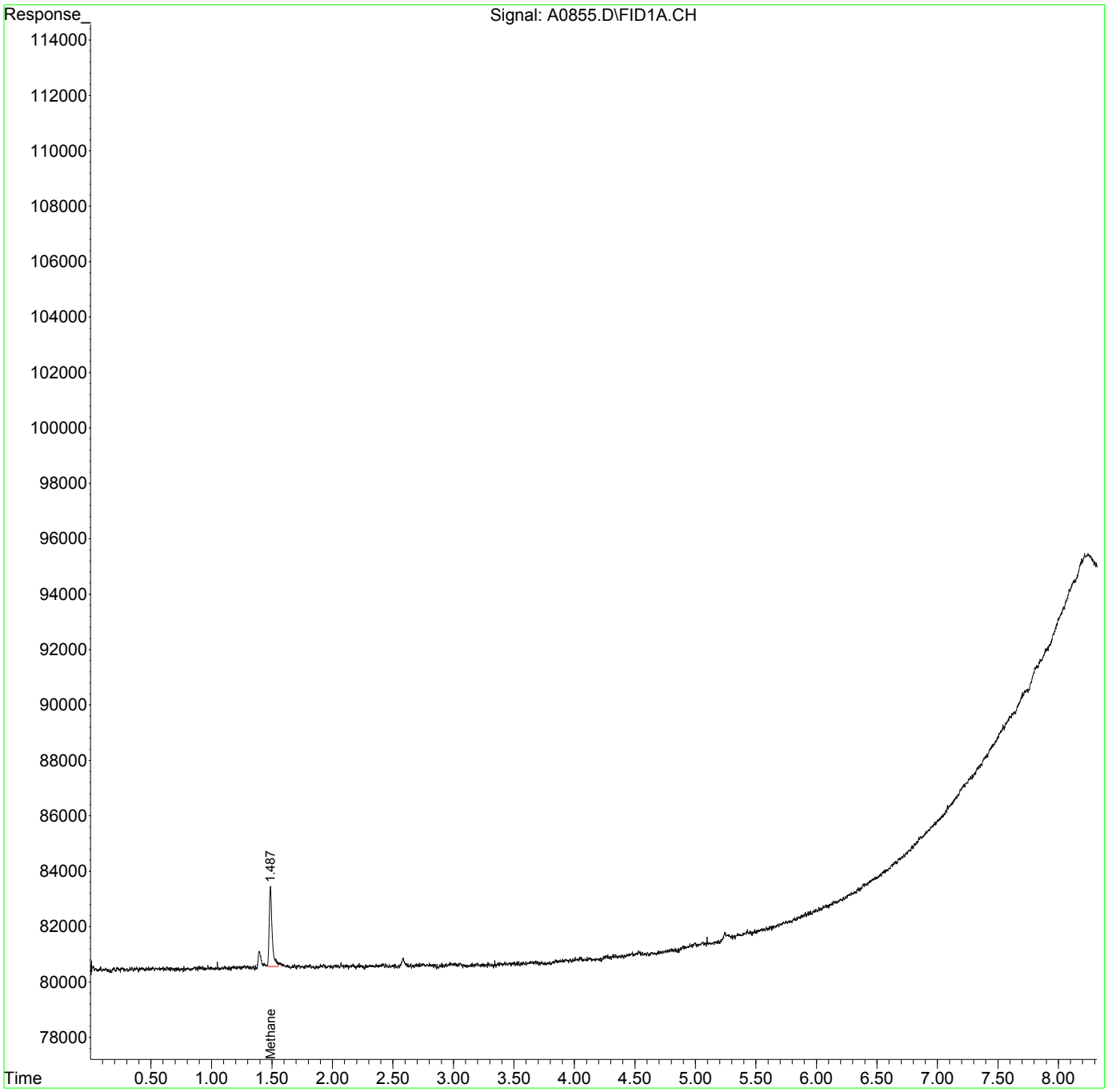
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0855.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 10:09 am
Operator : F.NAEGLER
Sample : MBLK
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 10:18:14 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

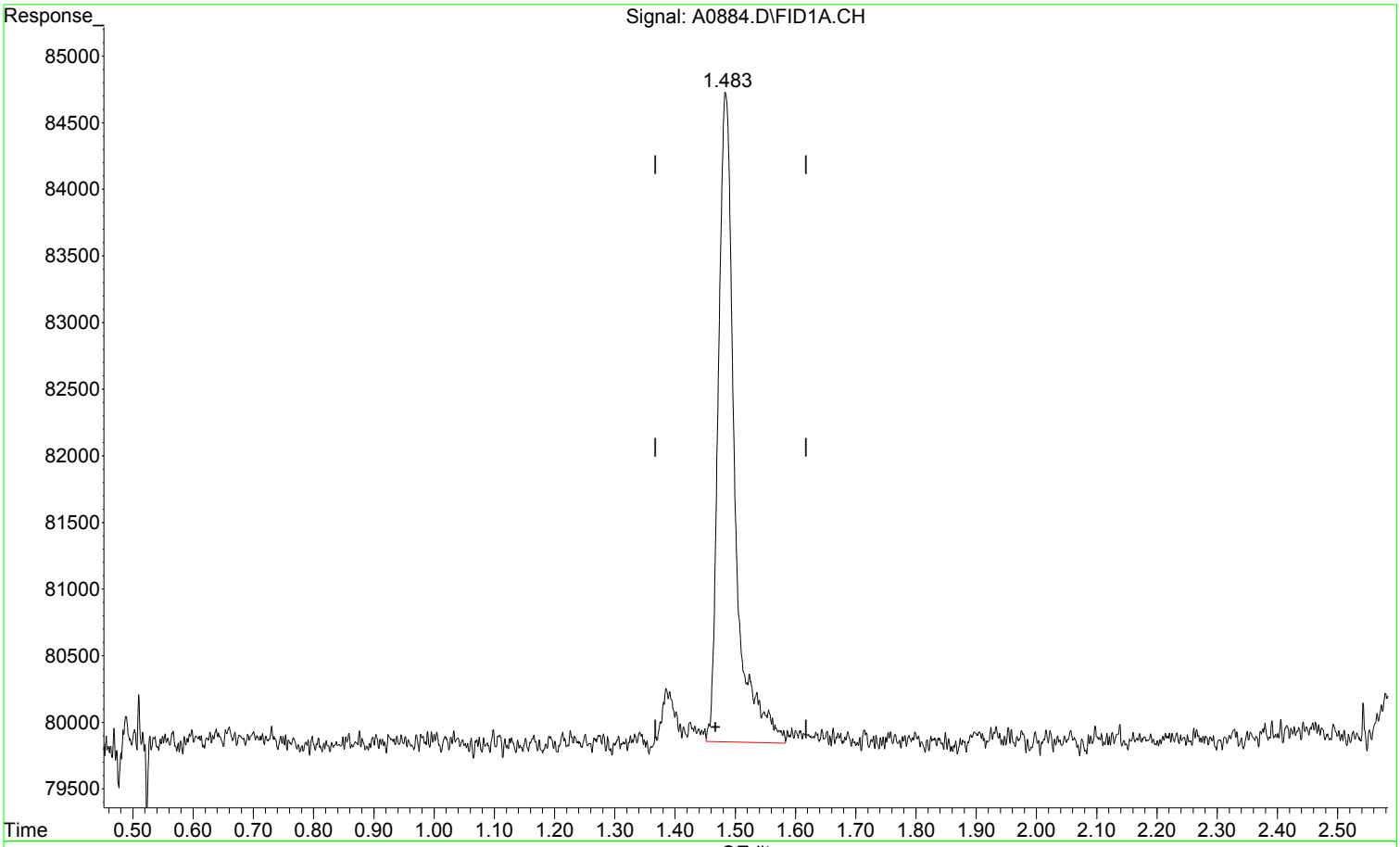


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\090324\
Data File : A0884.D
Signal(s) : FID1A.CH
Acq On : 03 Sep 2024 11:25 am
Operator : F.NAEGLER
Sample : MBLK
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 03 11:34:57 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.483min 1.545 ug/L m

response 92107

Manual Integration:

After

Peak not found.

09/03/24

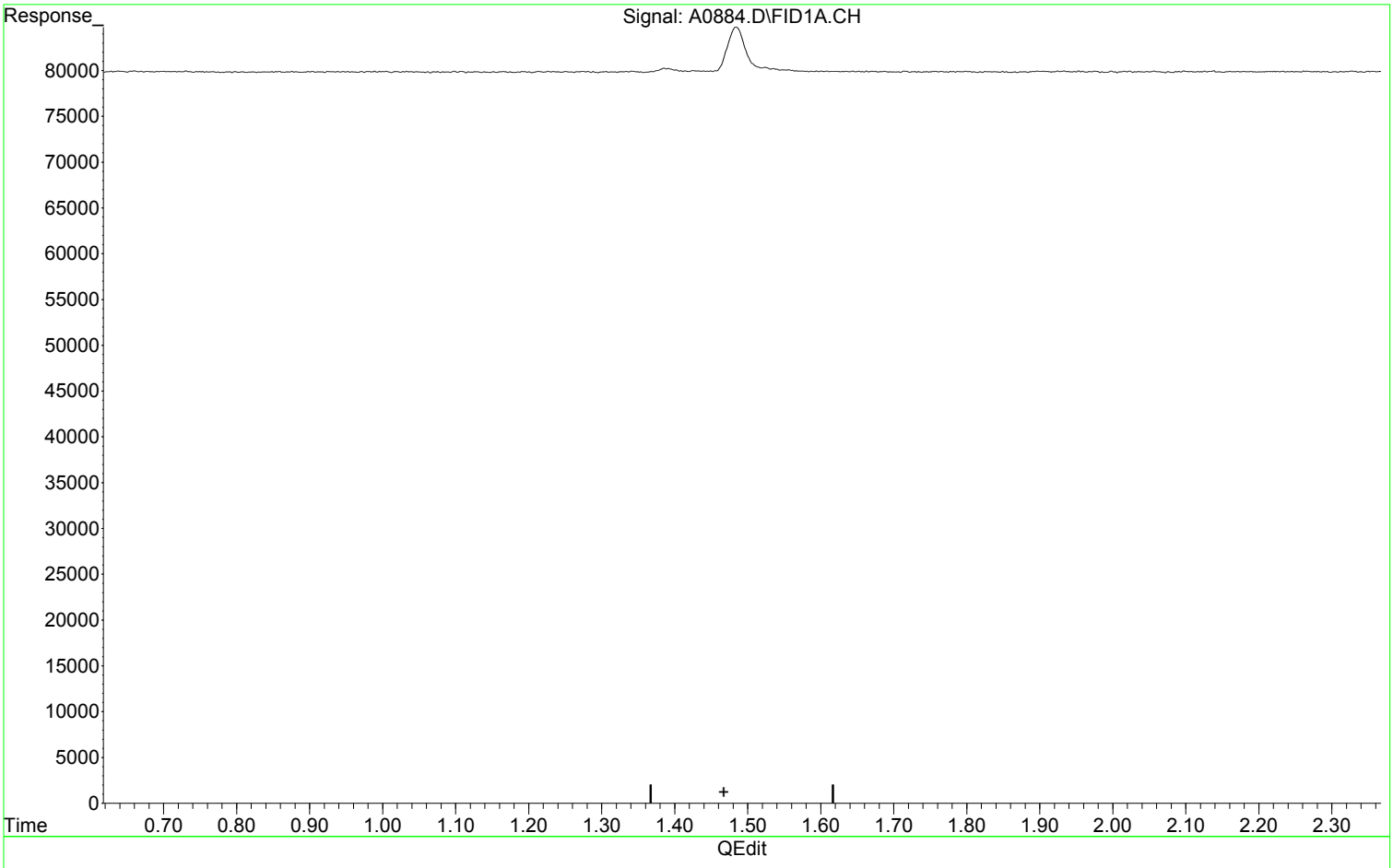
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\090324\
Data File : A0884.D
Signal(s) : FID1A.CH
Acq On : 03 Sep 2024 11:25 am
Operator : F.NAEGLER
Sample : MBLK
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 03 11:34:57 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.467min 0.000 ug/L

response 0

Manual Integration:

Before

09/03/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090324\
Data File : A0884.D
Signal(s) : FID1A.CH
Acq On : 03 Sep 2024 11:25 am
Operator : F.NAEGLER
Sample : MBLK
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 03 11:34:57 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	1.483	92107	1.545	ug/L	m
2)	Acetylene	0.000	0	N.D.	ug/L	
3)	Ethylene	0.000	0	N.D.	ug/L	
4)	Ethane	0.000	0	N.D.	ug/L	
5)	Propane	0.000	0	N.D.	ug/L	

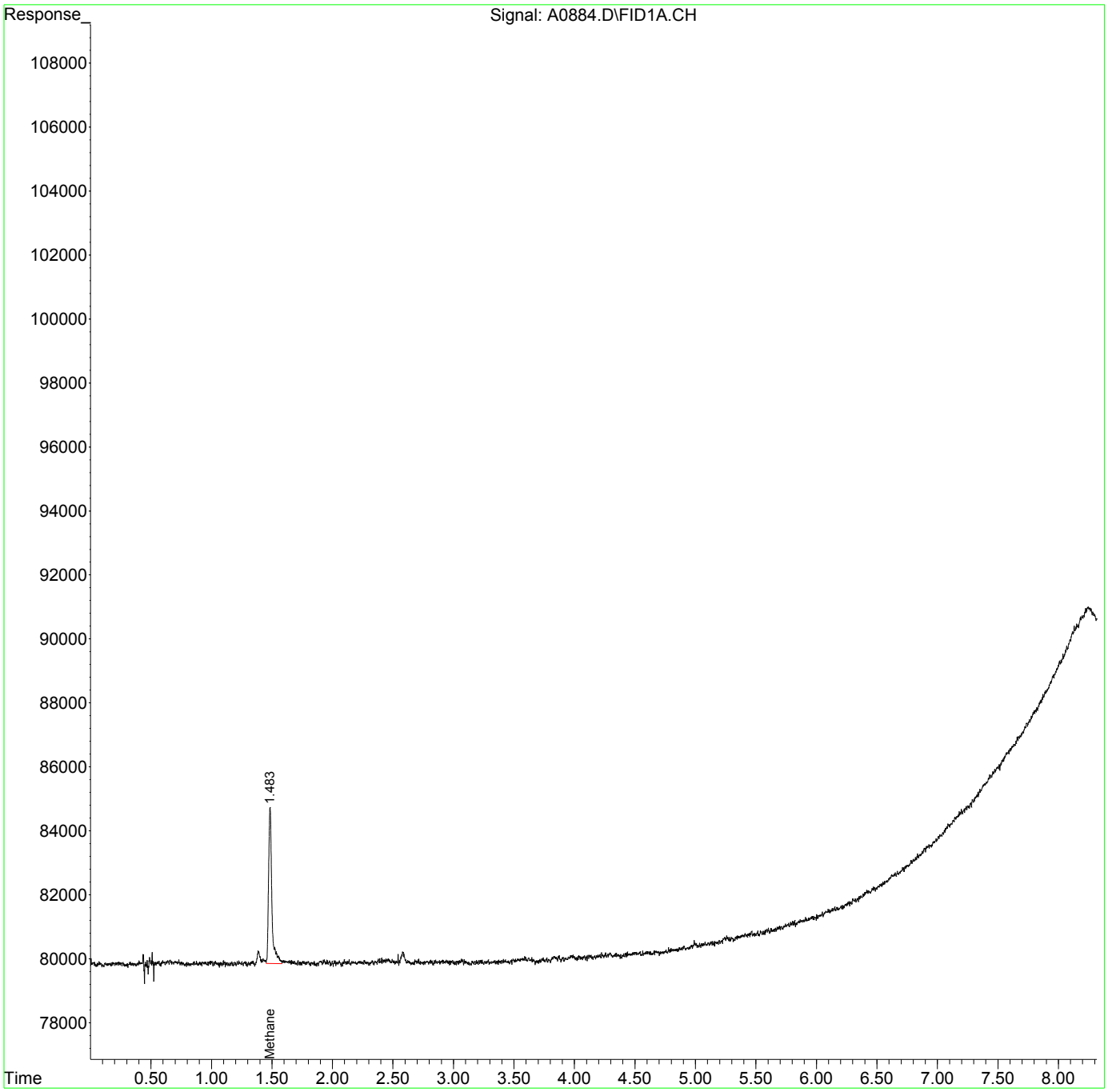
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090324\
Data File : A0884.D
Signal(s) : FID1A.CH
Acq On : 03 Sep 2024 11:25 am
Operator : F.NAEGLER
Sample : MBLK
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 03 11:34:57 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0856.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 10:21 am
Operator : F.NAEGLER
Sample : LCS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 10:32:08 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.478	8022971	134.580 ug/L
2)	Acetylene	2.236	6494531	278.685 ug/L
3)	Ethylene	2.431	5108880	123.556 ug/L
4)	Ethane	2.578	7978471	147.466 ug/L
5)	Propane	5.247	8198910	142.592 ug/L

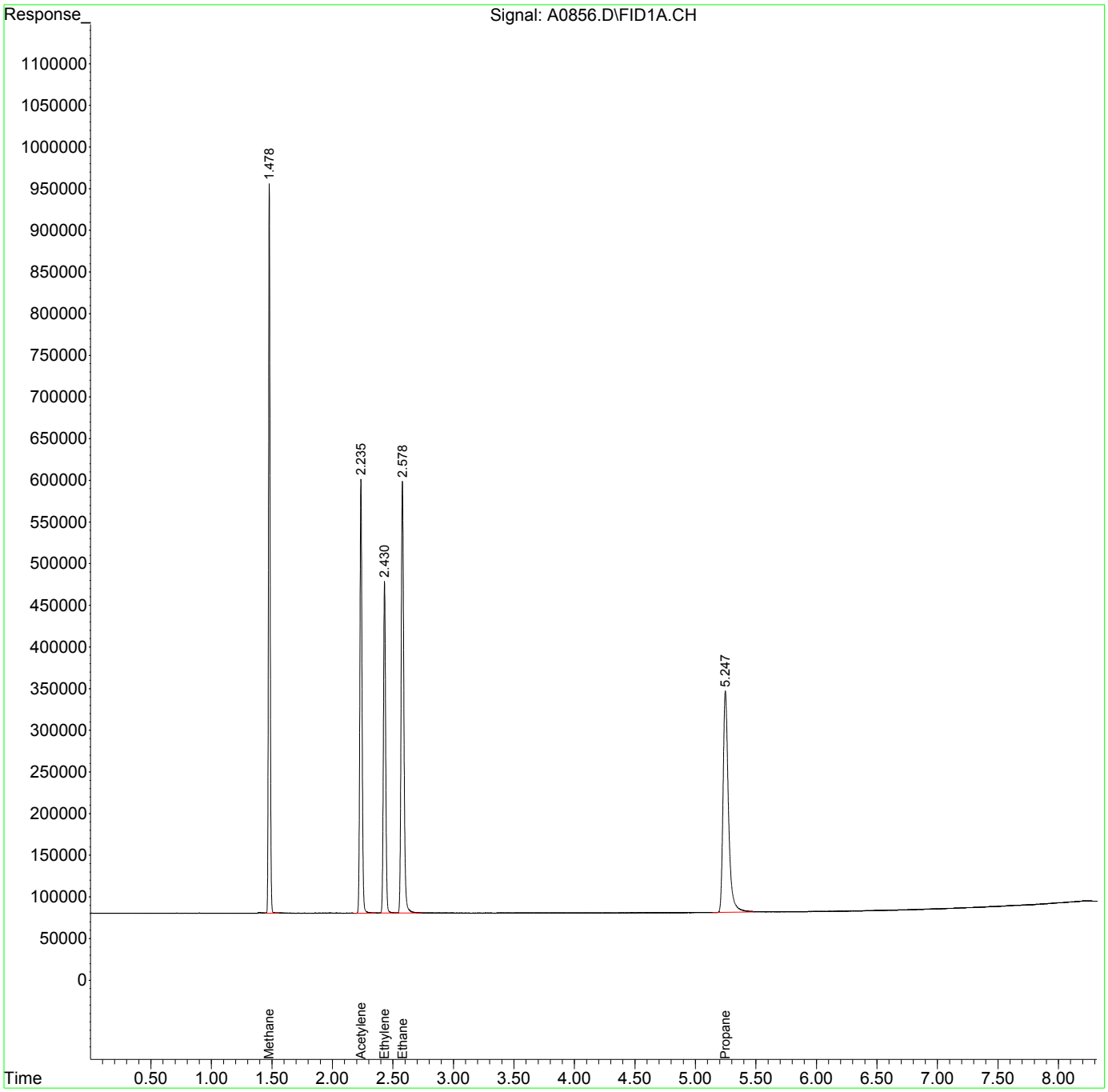
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0856.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 10:21 am
Operator : F.NAEGLER
Sample : LCS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 10:32:08 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090324\
Data File : A0885.D
Signal(s) : FID1A.CH
Acq On : 03 Sep 2024 11:36 am
Operator : F.NAEGLER
Sample : LCS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 03 12:15:12 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.475	7522550	126.186 ug/L
2)	Acetylene	2.233	6506604	279.203 ug/L
3)	Ethylene	2.428	5617754	135.863 ug/L
4)	Ethane	2.576	7756103	143.356 ug/L
5)	Propane	5.245	8116518	141.159 ug/L

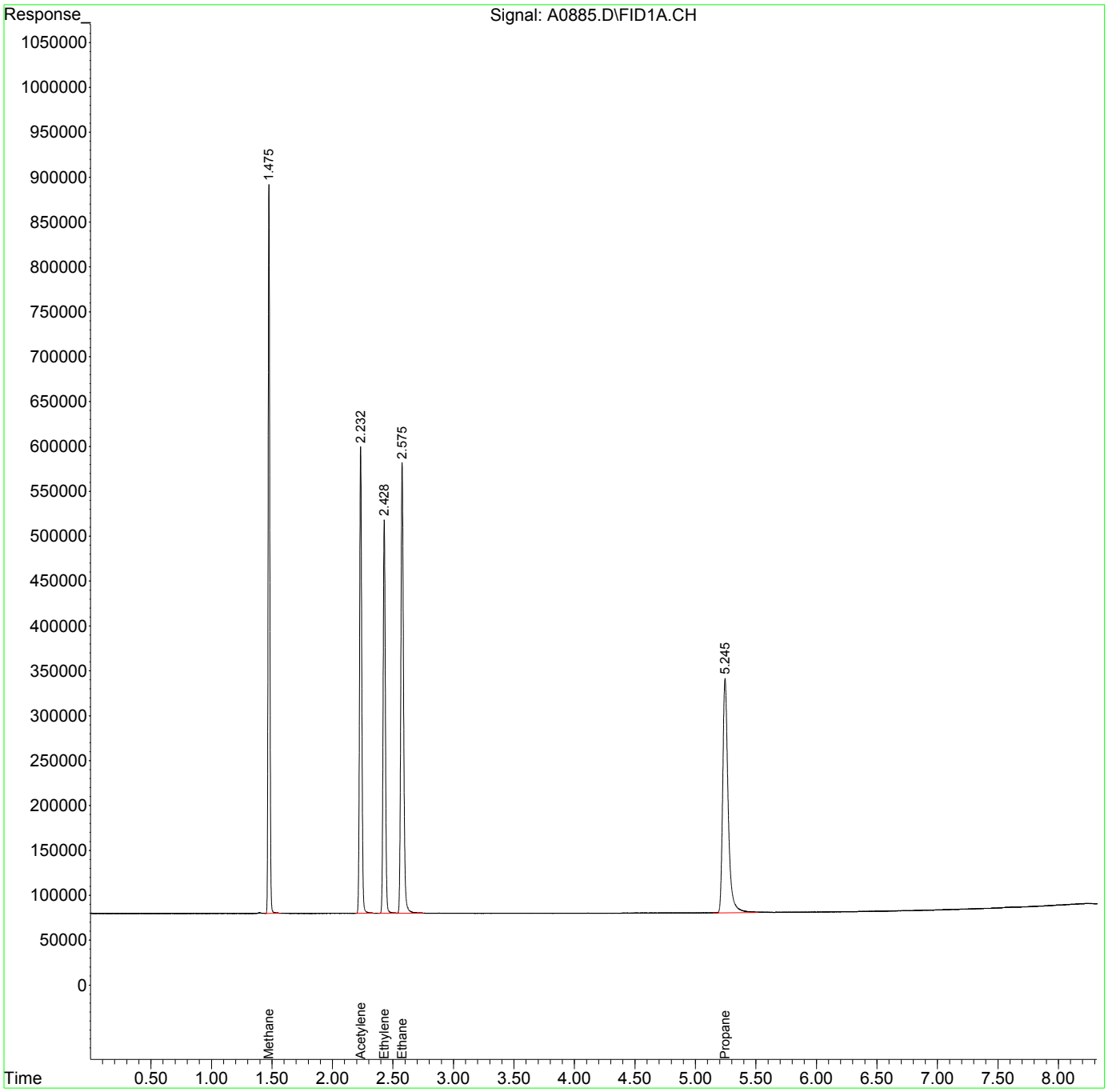
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090324\
Data File : A0885.D
Signal(s) : FID1A.CH
Acq On : 03 Sep 2024 11:36 am
Operator : F.NAEGLER
Sample : LCS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 03 12:15:12 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090324\
Data File : A0886.D
Signal(s) : FID1A.CH
Acq On : 03 Sep 2024 12:16 pm
Operator : F.NAEGLER
Sample : LCSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 03 12:25:32 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.476	7458236	125.107 ug/L
2)	Acetylene	2.233	6438553	276.283 ug/L
3)	Ethylene	2.428	5553315	134.305 ug/L
4)	Ethane	2.576	7652509	141.441 ug/L
5)	Propane	5.245	7979113	138.770 ug/L

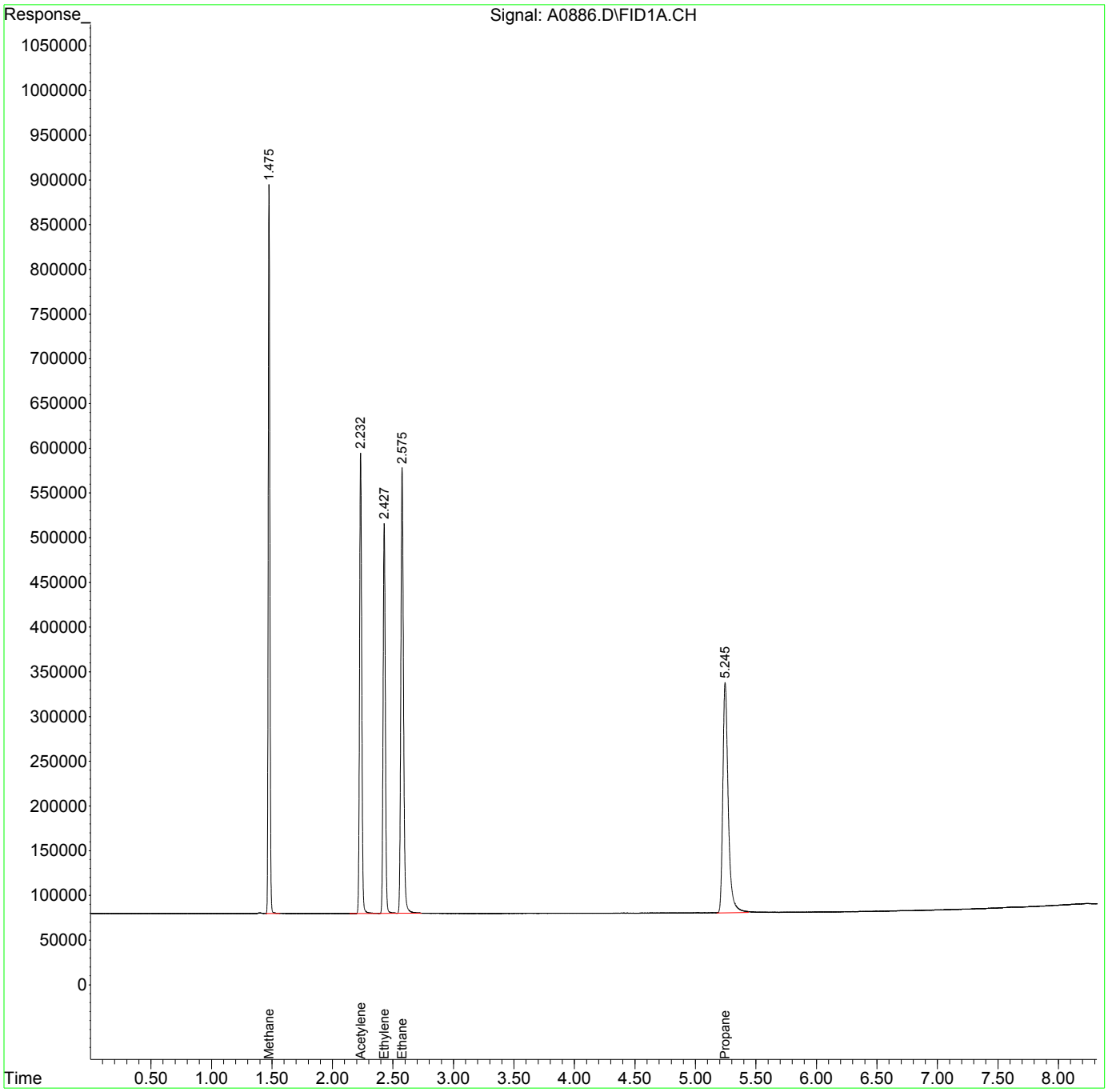
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090324\
Data File : A0886.D
Signal(s) : FID1A.CH
Acq On : 03 Sep 2024 12:16 pm
Operator : F.NAEGLER
Sample : LCSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 03 12:25:32 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0854.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 9:57 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 10:07:45 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Methane	262.300	233.720	10.9	100	0.01
2	Acetylene	500.600	480.967	3.9	95	0.01
3	Ethylene	242.800	228.247	6.0	89	0.01
4	Ethane	260.300	253.627	2.6	98	0.01
5	Propane	254.500	246.773	3.0	96	0.02

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0854.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 9:57 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 10:07:45 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.477	13933210	233.720 ug/L
2)	Acetylene	2.236	11208551	480.967 ug/L
3)	Ethylene	2.431	9437679	228.247 ug/L
4)	Ethane	2.579	13722208	253.627 ug/L
5)	Propane	5.249	14189176	246.773 ug/L

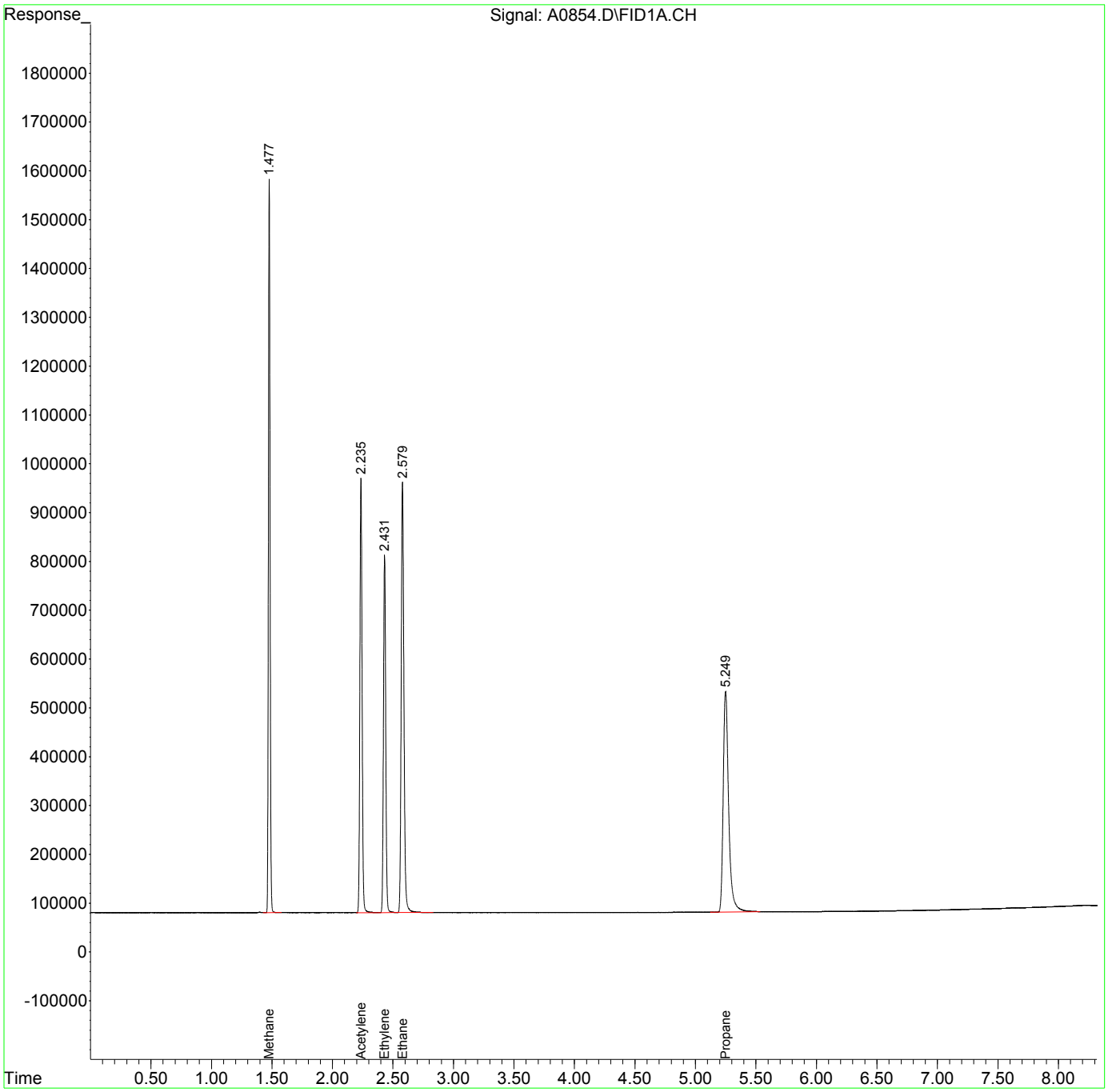
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0854.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 9:57 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 10:07:45 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0870.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 1:27 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 13:39:37 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Methane	262.300	234.106	10.7	100	0.00
2	Acetylene	500.600	486.954	2.7	96	0.00
3	Ethylene	242.800	238.167	1.9	93	0.00
4	Ethane	260.300	254.904	2.1	98	0.00
5	Propane	254.500	249.304	2.0	97	0.01

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0870.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 1:27 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 13:39:37 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.474	13956230	234.106 ug/L
2)	Acetylene	2.232	11348069	486.954 ug/L
3)	Ethylene	2.427	9847877	238.167 ug/L
4)	Ethane	2.575	13791303	254.904 ug/L
5)	Propane	5.245	14334738	249.304 ug/L

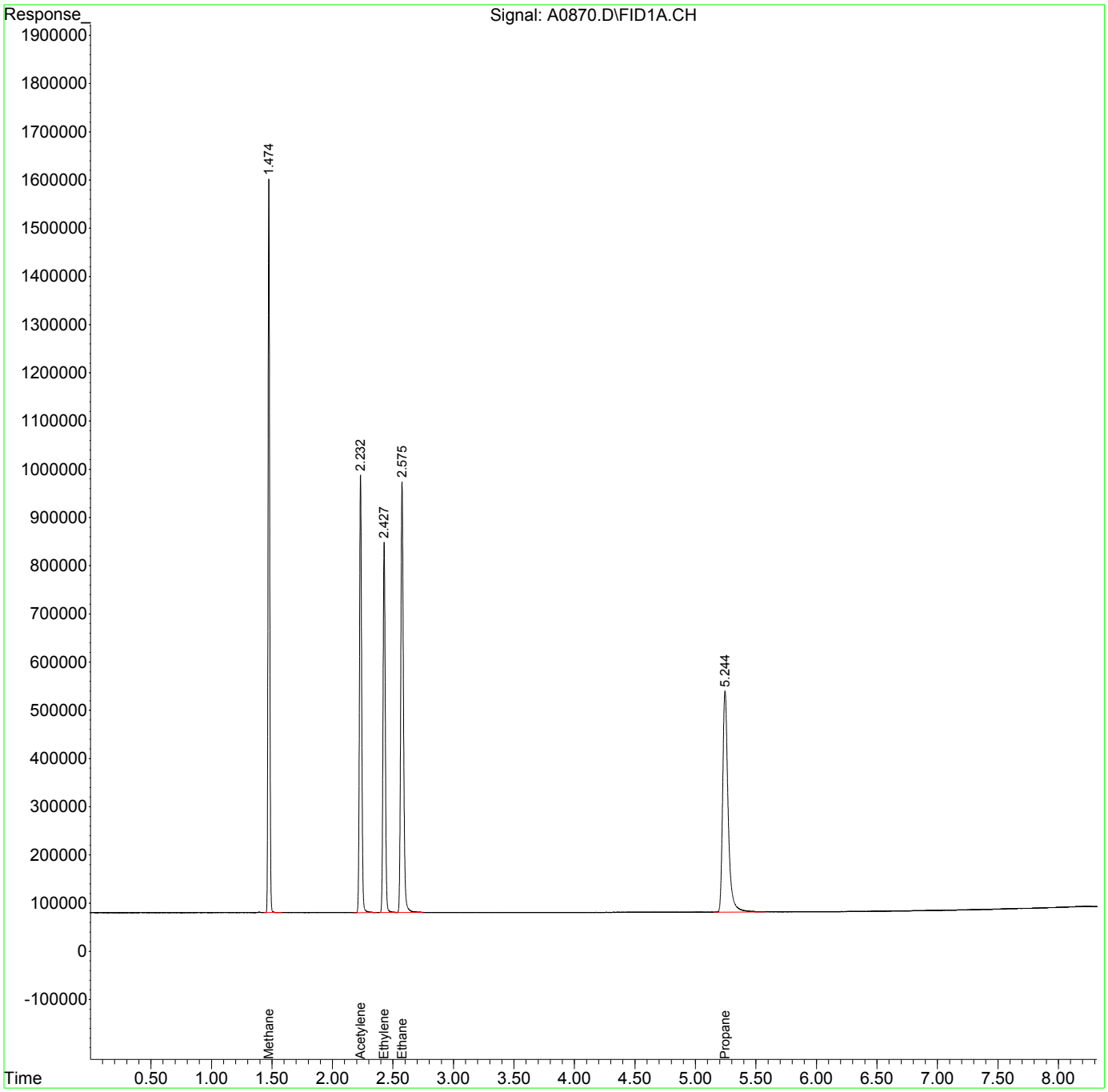
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0870.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 1:27 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 13:39:37 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0878.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 3:09 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 15:18:48 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Methane	262.300	239.977	8.5	102	0.00
2	Acetylene	500.600	499.731	0.2	99	0.00
3	Ethylene	242.800	247.655	-2.0	96	0.00
4	Ethane	260.300	261.405	-0.4	101	0.00
5	Propane	254.500	253.503	0.4	99	0.01

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0878.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 3:09 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 15:18:48 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.474	14306218	239.977 ug/L
2)	Acetylene	2.231	11645826	499.731 ug/L
3)	Ethylene	2.426	10240175	247.655 ug/L
4)	Ethane	2.574	14143031	261.405 ug/L
5)	Propane	5.244	14576154	253.503 ug/L

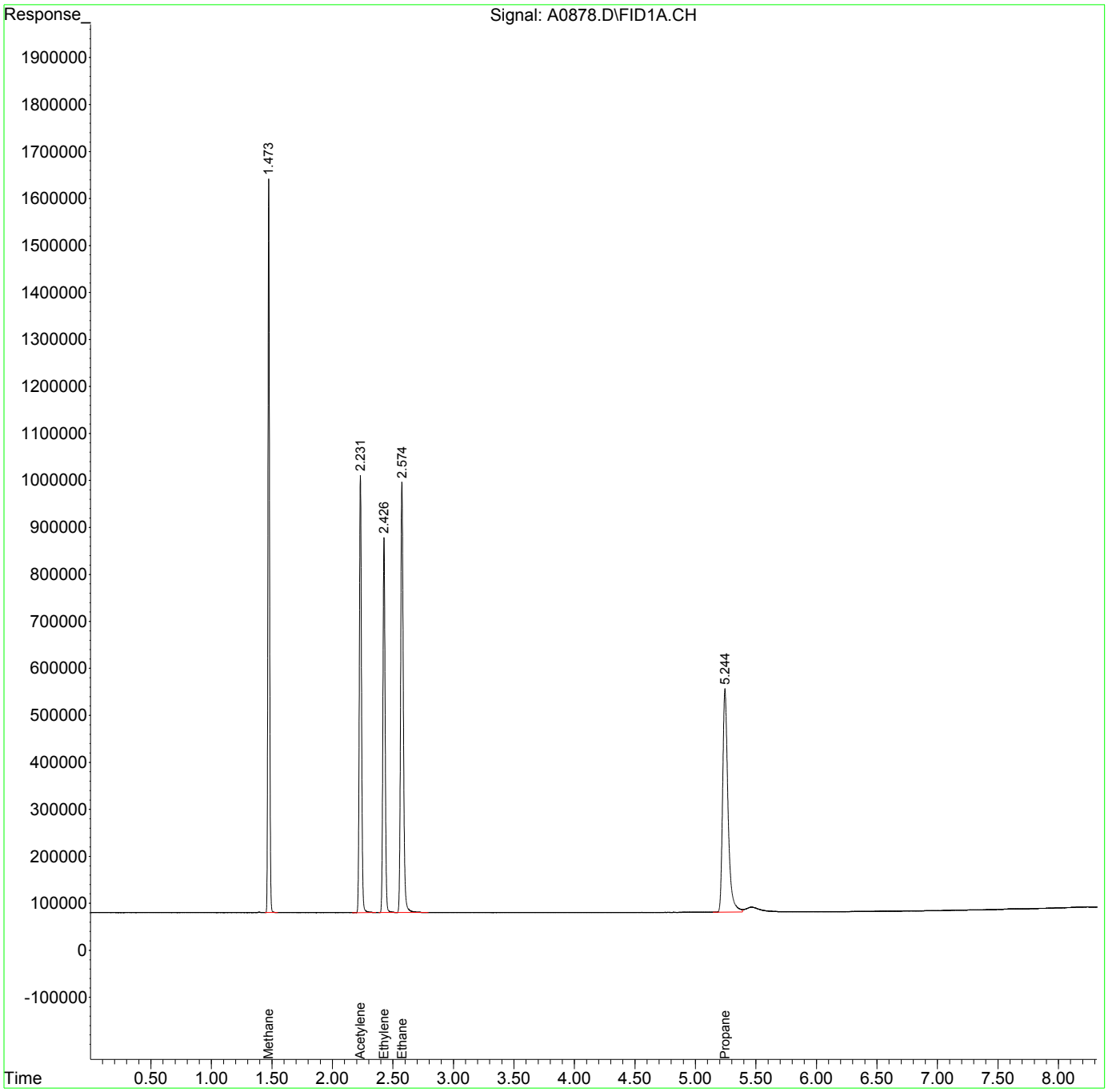
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090224\
Data File : A0878.D
Signal(s) : FID1A.CH
Acq On : 02 Sep 2024 3:09 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 02 15:18:48 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\GC-70\DATA\090324\
Data File : A0883.D
Signal(s) : FID1A.CH
Acq On : 03 Sep 2024 11:12 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 03 11:23:30 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Methane	262.300	225.499	14.0	96	0.00
2	Acetylene	500.600	500.647	-0.0	99	0.00
3	Ethylene	242.800	255.770	-5.3	100	0.00
4	Ethane	260.300	256.783	1.4	99	0.00
5	Propane	254.500	255.010	-0.2	100	0.01

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090324\
Data File : A0883.D
Signal(s) : FID1A.CH
Acq On : 03 Sep 2024 11:12 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 03 11:23:30 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.475	13443095	225.499 ug/L
2)	Acetylene	2.232	11667181	500.647 ug/L
3)	Ethylene	2.427	10575742	255.770 ug/L
4)	Ethane	2.575	13892924	256.783 ug/L
5)	Propane	5.245	14662794	255.010 ug/L

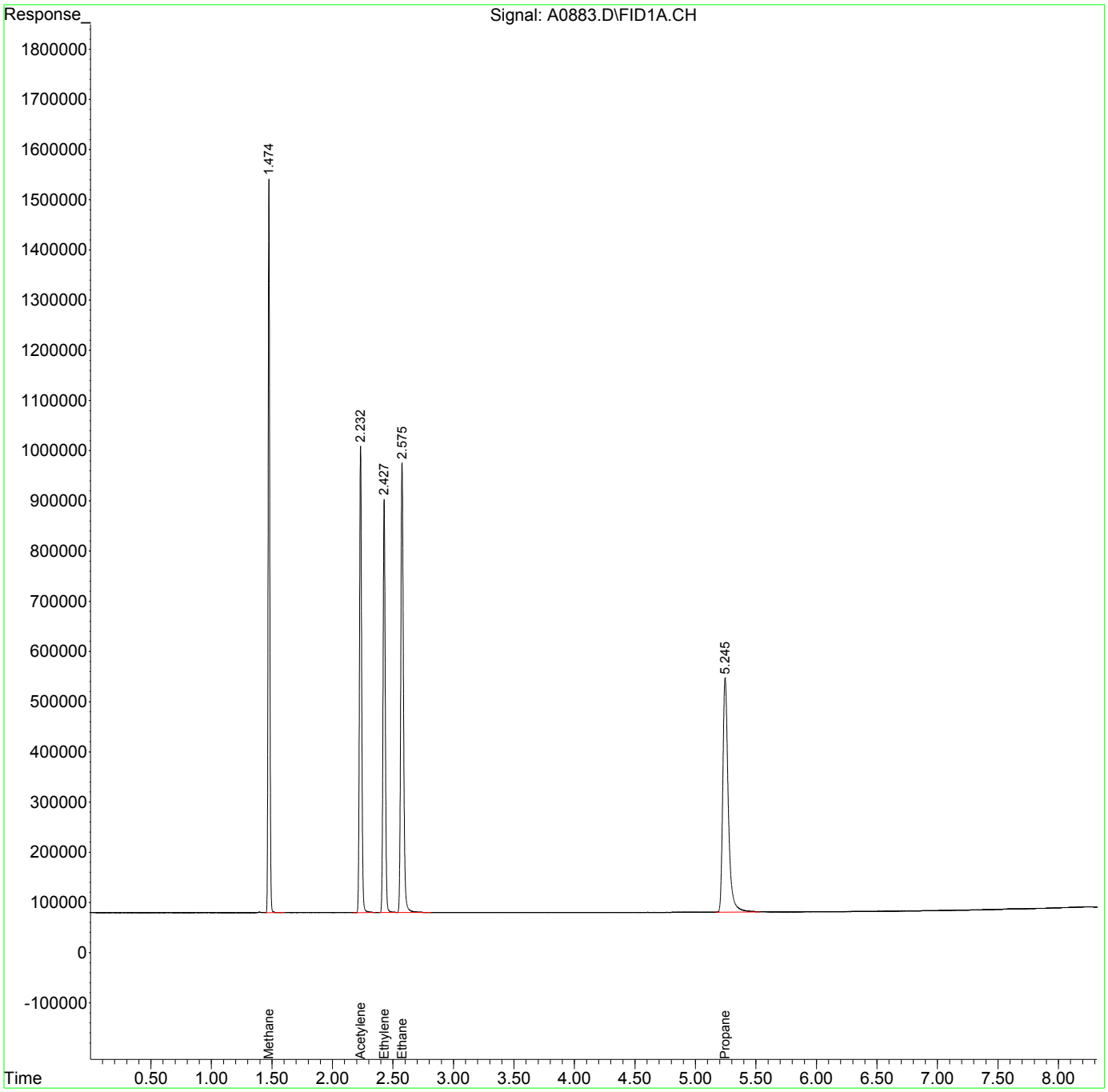
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090324\
Data File : A0883.D
Signal(s) : FID1A.CH
Acq On : 03 Sep 2024 11:12 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 03 11:23:30 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\GC-70\DATA\090324\
Data File : A0891.D
Signal(s) : FID1A.CH
Acq On : 03 Sep 2024 1:18 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 03 13:30:52 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Methane	262.300	230.127	12.3	98	0.00
2	Acetylene	500.600	514.654	-2.8	102	0.00
3	Ethylene	242.800	265.408	-9.3	103	0.00
4	Ethane	260.300	263.402	-1.2	101	0.00
5	Propane	254.500	262.818	-3.3	103	0.00

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090324\
Data File : A0891.D
Signal(s) : FID1A.CH
Acq On : 03 Sep 2024 1:18 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 03 13:30:52 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.471	13718997	230.127 ug/L
2)	Acetylene	2.228	11993591	514.654 ug/L
3)	Ethylene	2.423	10974260	265.408 ug/L
4)	Ethane	2.571	14251031	263.402 ug/L
5)	Propane	5.242	15111756	262.818 ug/L

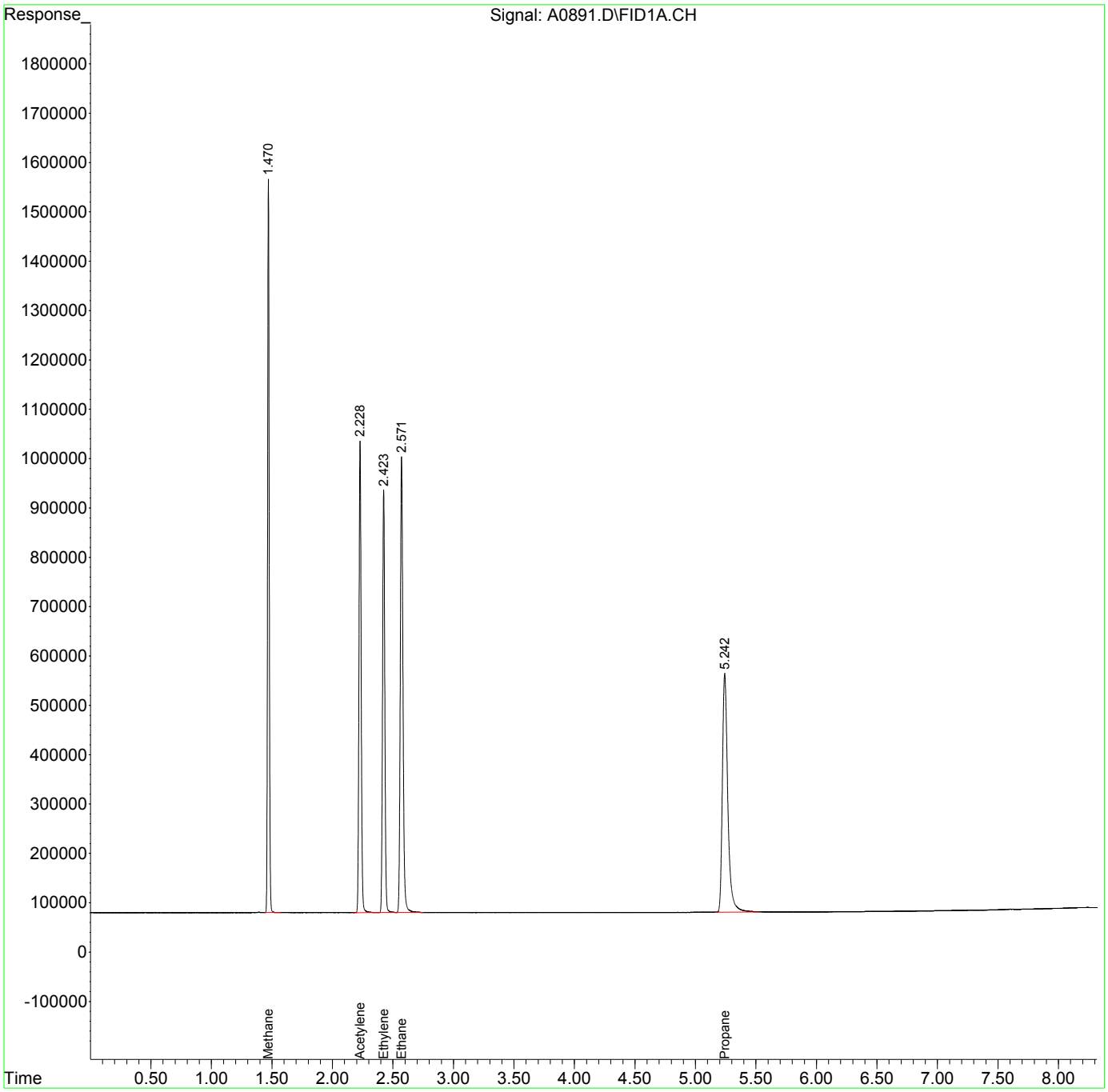
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\090324\
Data File : A0891.D
Signal(s) : FID1A.CH
Acq On : 03 Sep 2024 1:18 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: Sep 03 13:30:52 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0499.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 4:17 pm
Operator : F.NAEGLER
Sample : 250 PPB ICV
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:27:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.468	14308021	240.007	ug/L
2)	Acetylene	2.223	12099466	519.197	ug/L
3)	Ethylene	2.418	10483009	253.528	ug/L
4)	Ethane	2.566	14471962	267.485	ug/L
5)	Propane	5.234	15066997	262.040	ug/L

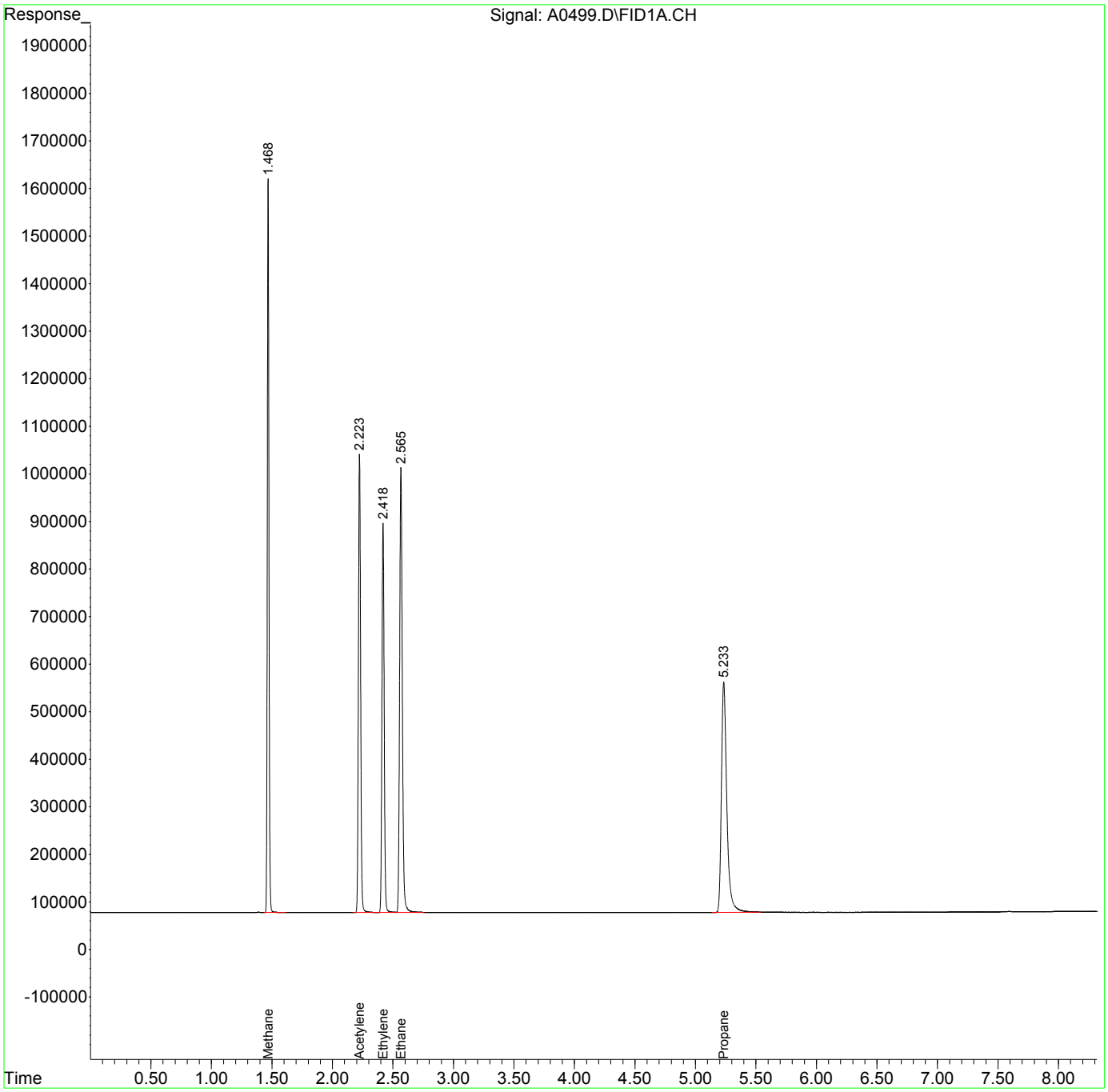
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0499.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 4:17 pm
Operator : F.NAEGLER
Sample : 250 PPB ICV
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:27:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

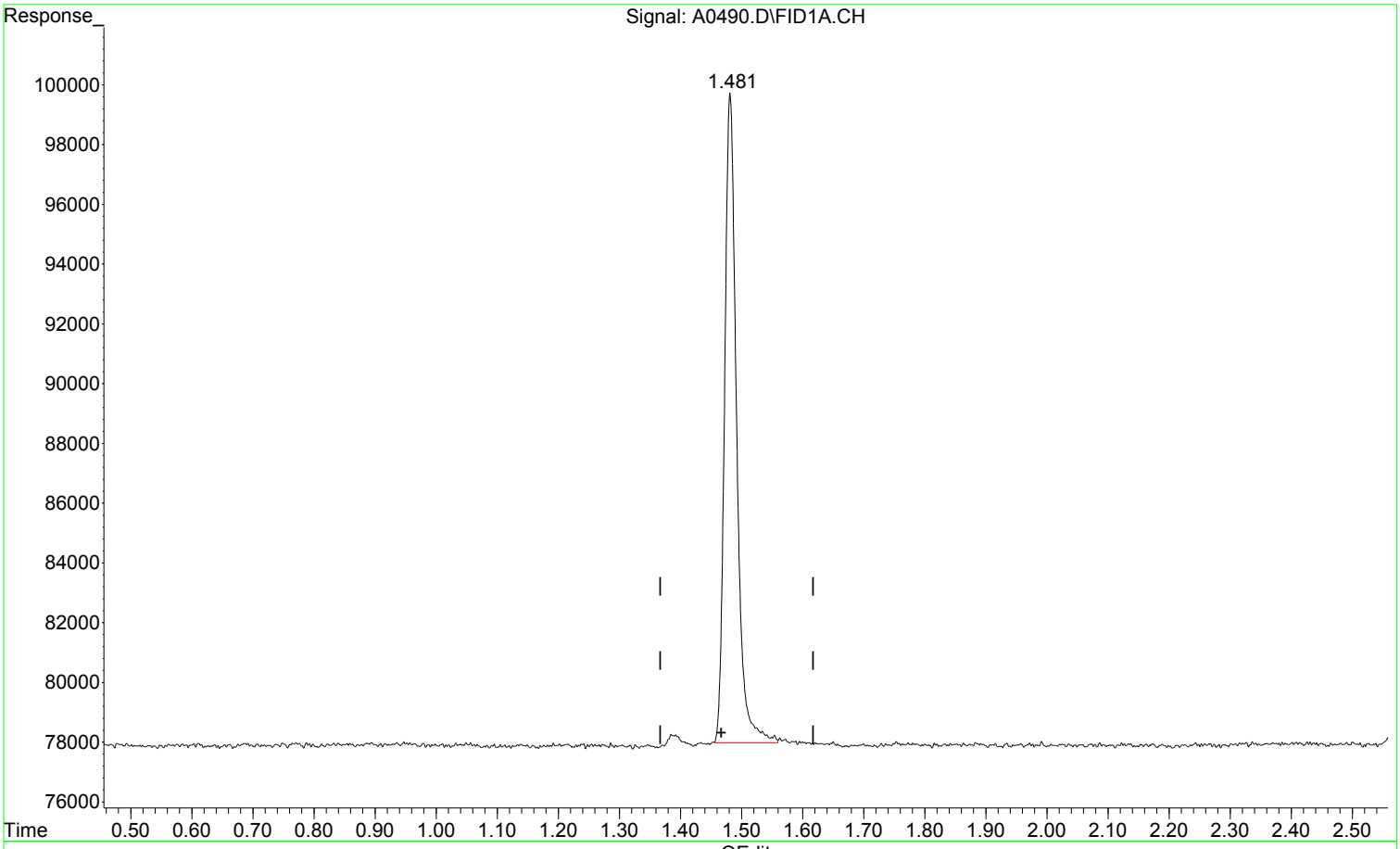


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.481min 4.971 ug/L m

response 296341

Manual Integration:

After

Peak not found.

05/02/24

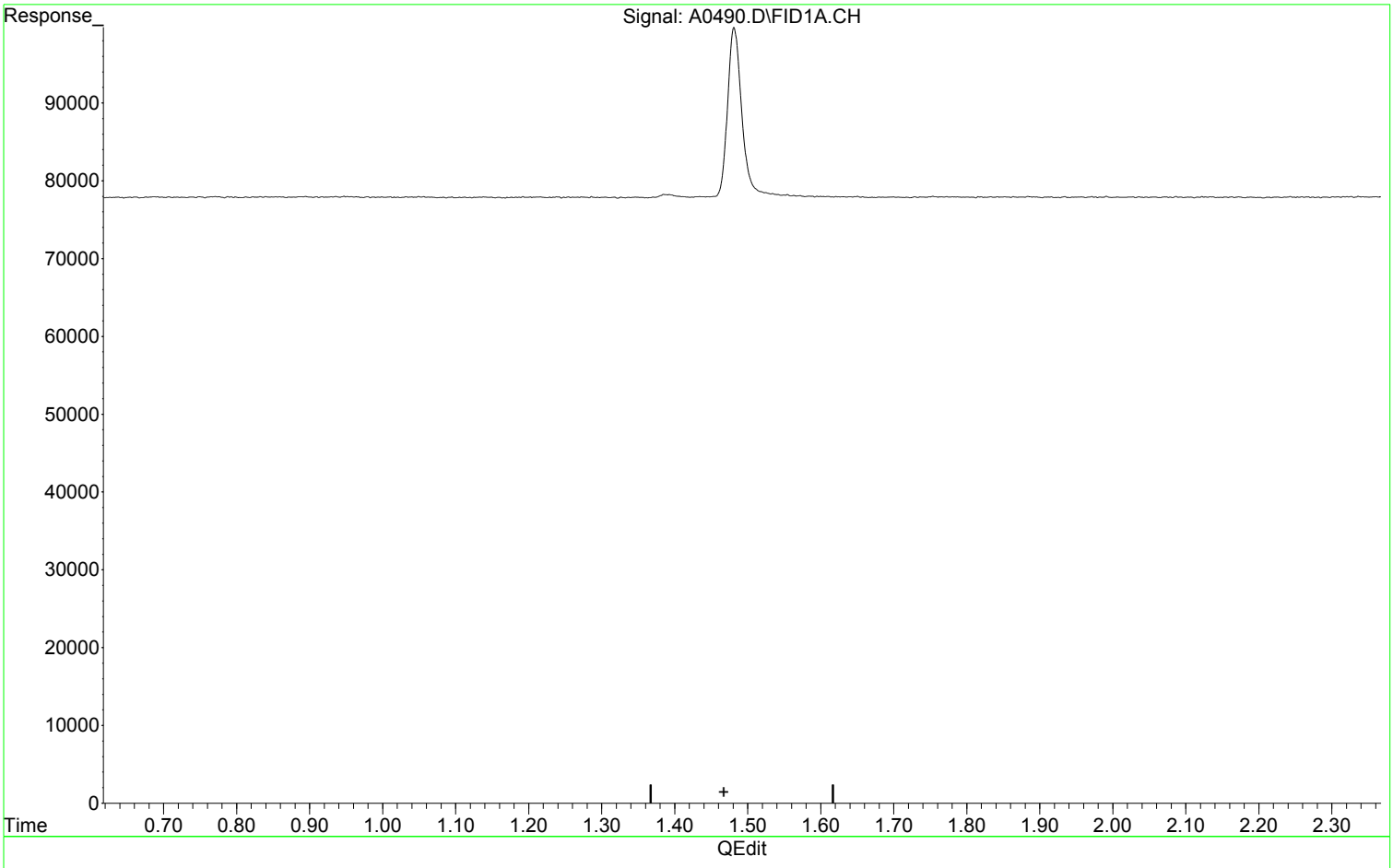
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.467min 0.000 ug/L

response 0

Manual Integration:

Before

05/02/24

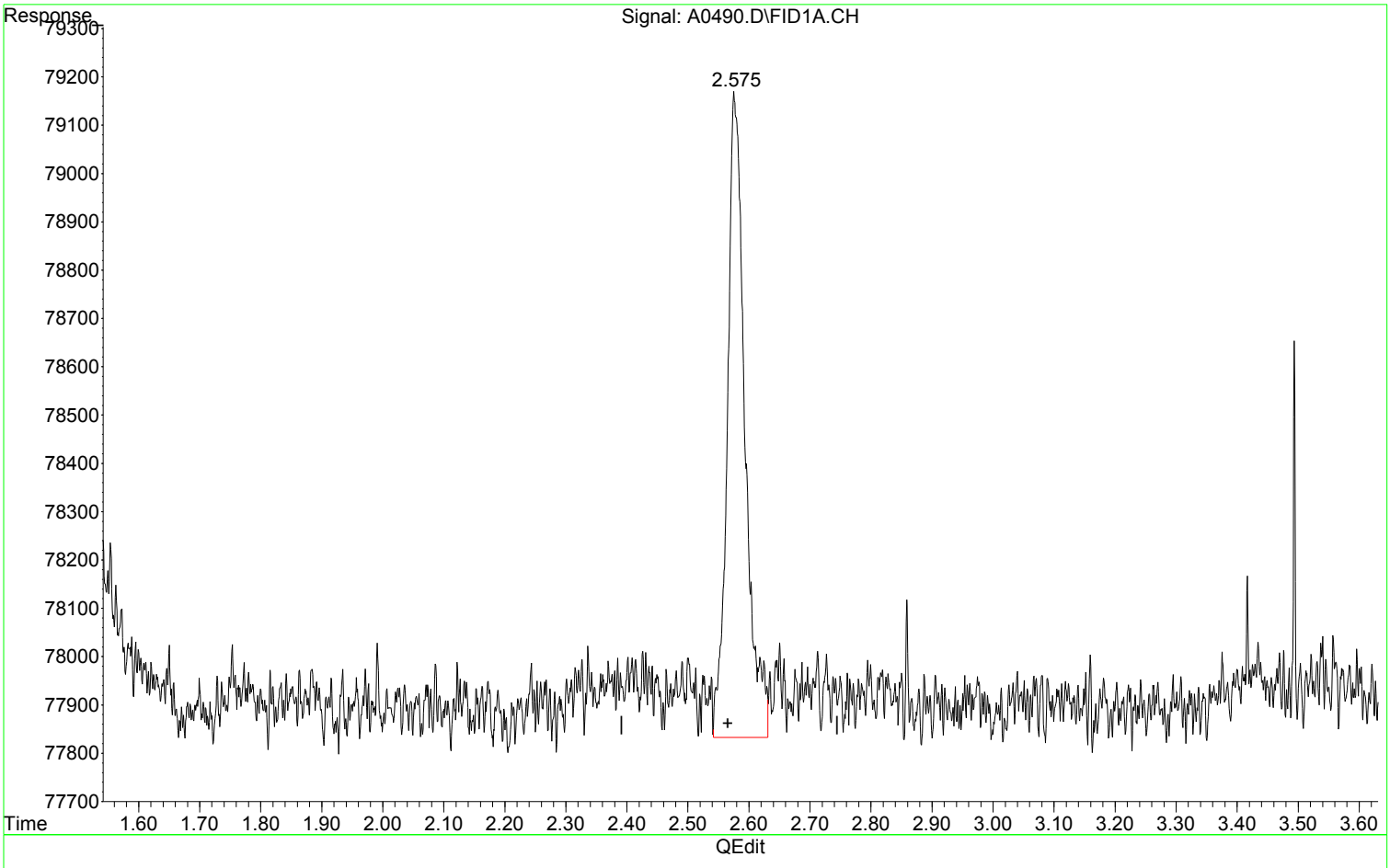
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane

2.575min 0.496 ug/L m

response 26859

Manual Integration:

After

Peak not found.

05/02/24

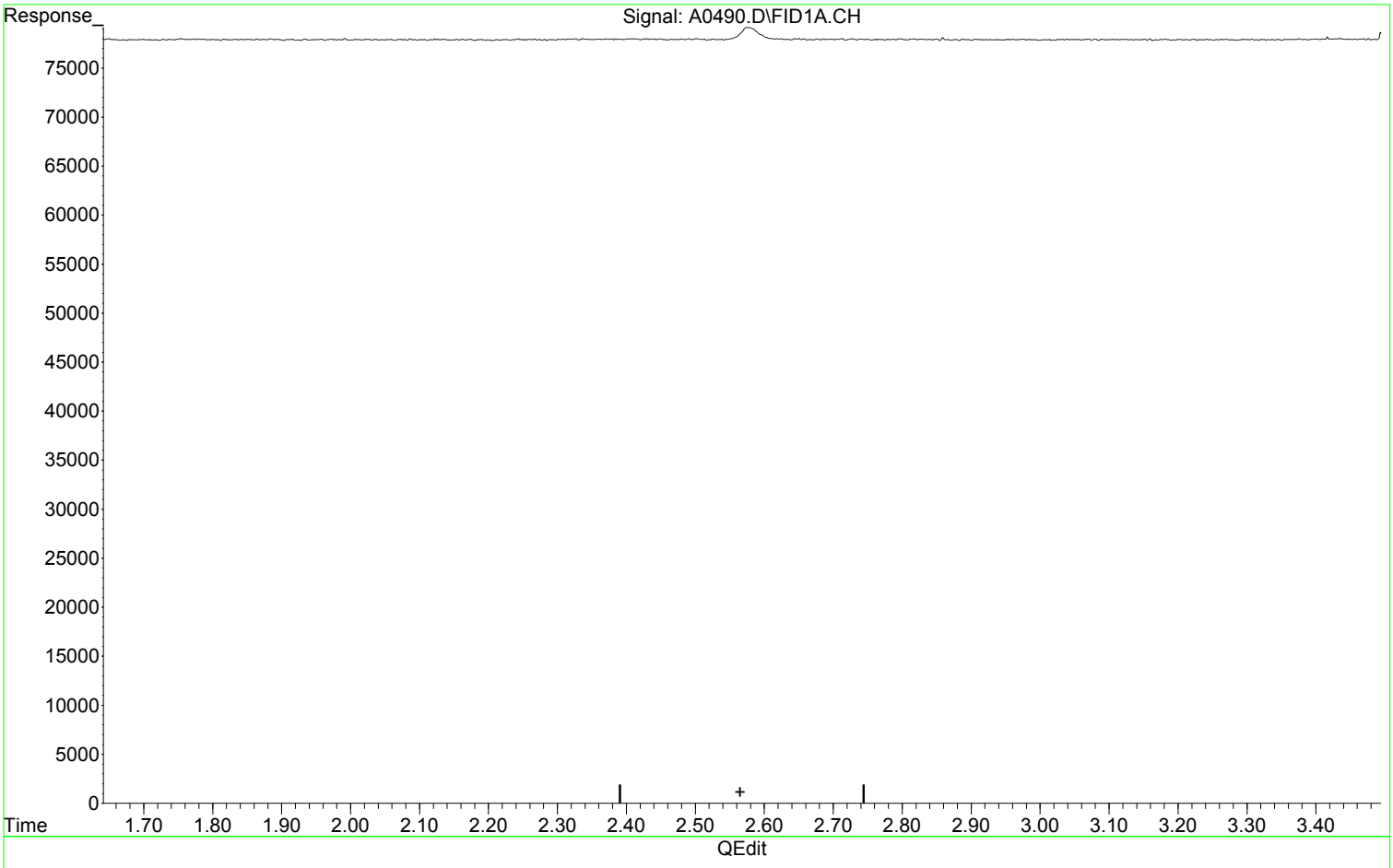
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane

2.565min 0.000 ug/L

response 0

Manual Integration:

Before

05/02/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.481	296341	4.971 ug/L m
2)	Acetylene	0.000	0	N.D. ug/L
3)	Ethylene	0.000	0	N.D. ug/L
4)	Ethane	2.575	26859	0.496 ug/L m
5)	Propane	0.000	0	N.D. ug/L

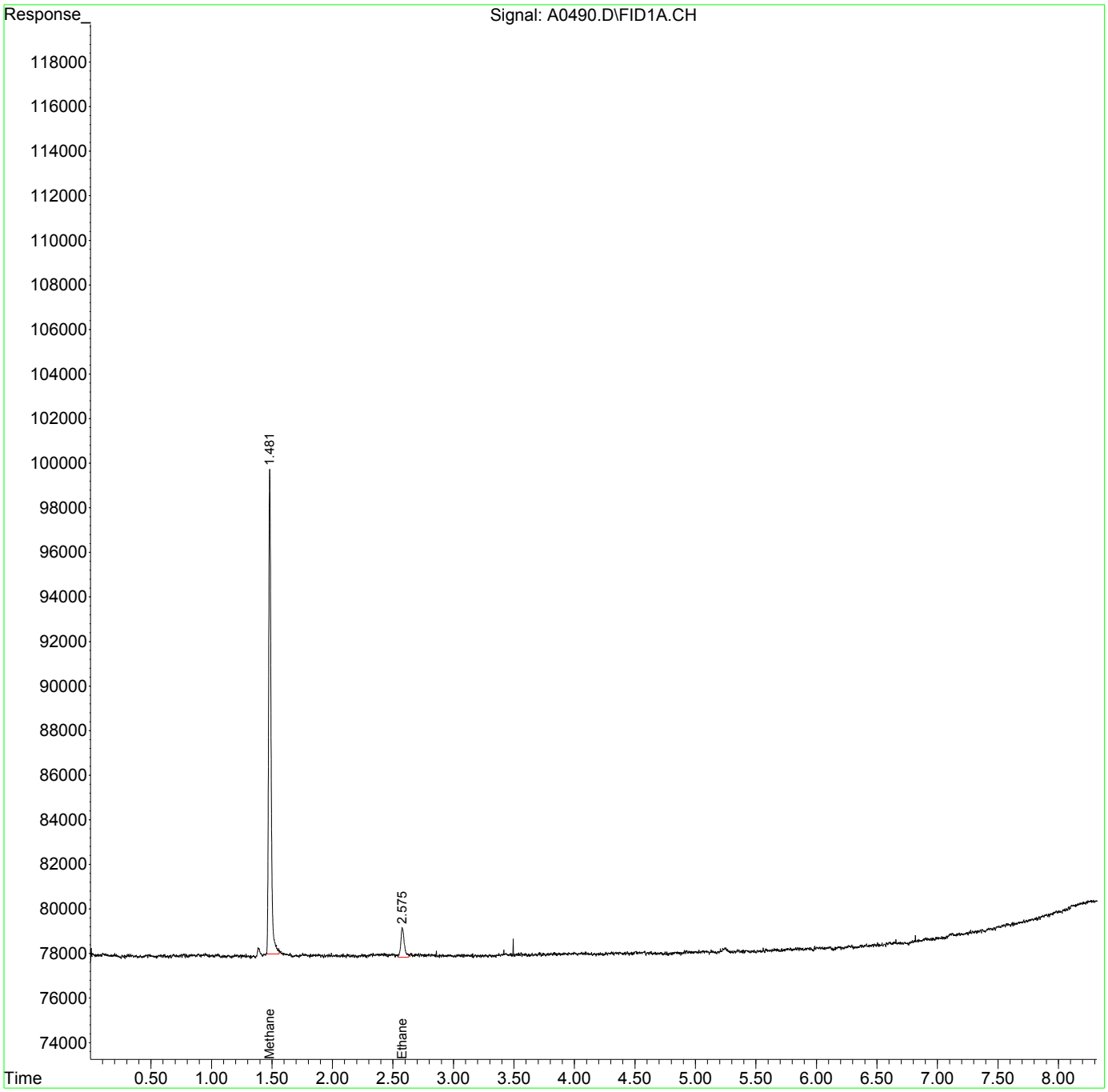
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

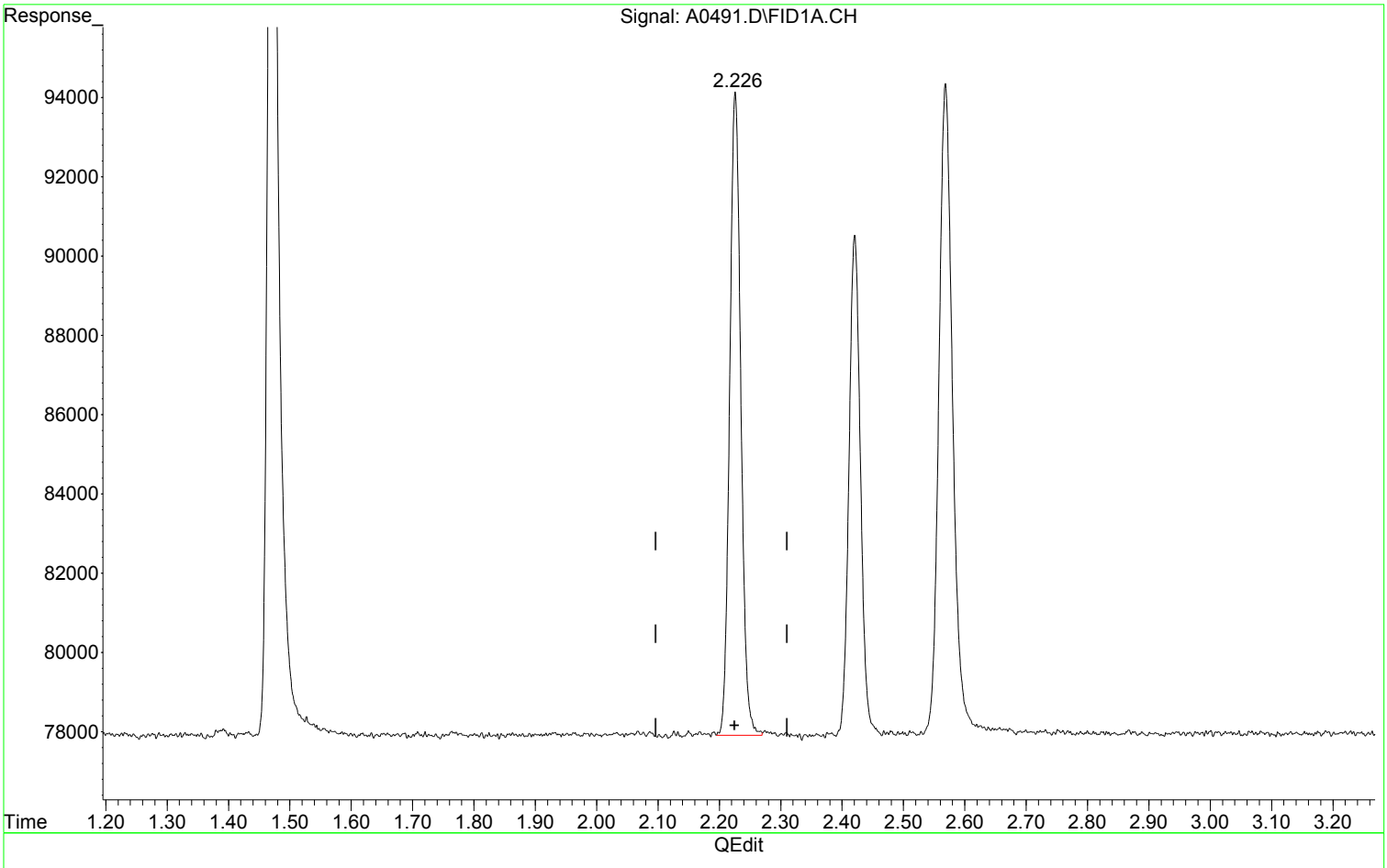


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(2) Acetylene
2.226min 8.893 ug/L m
response 204234

Manual Integration:
After
Peak not found.
05/02/24

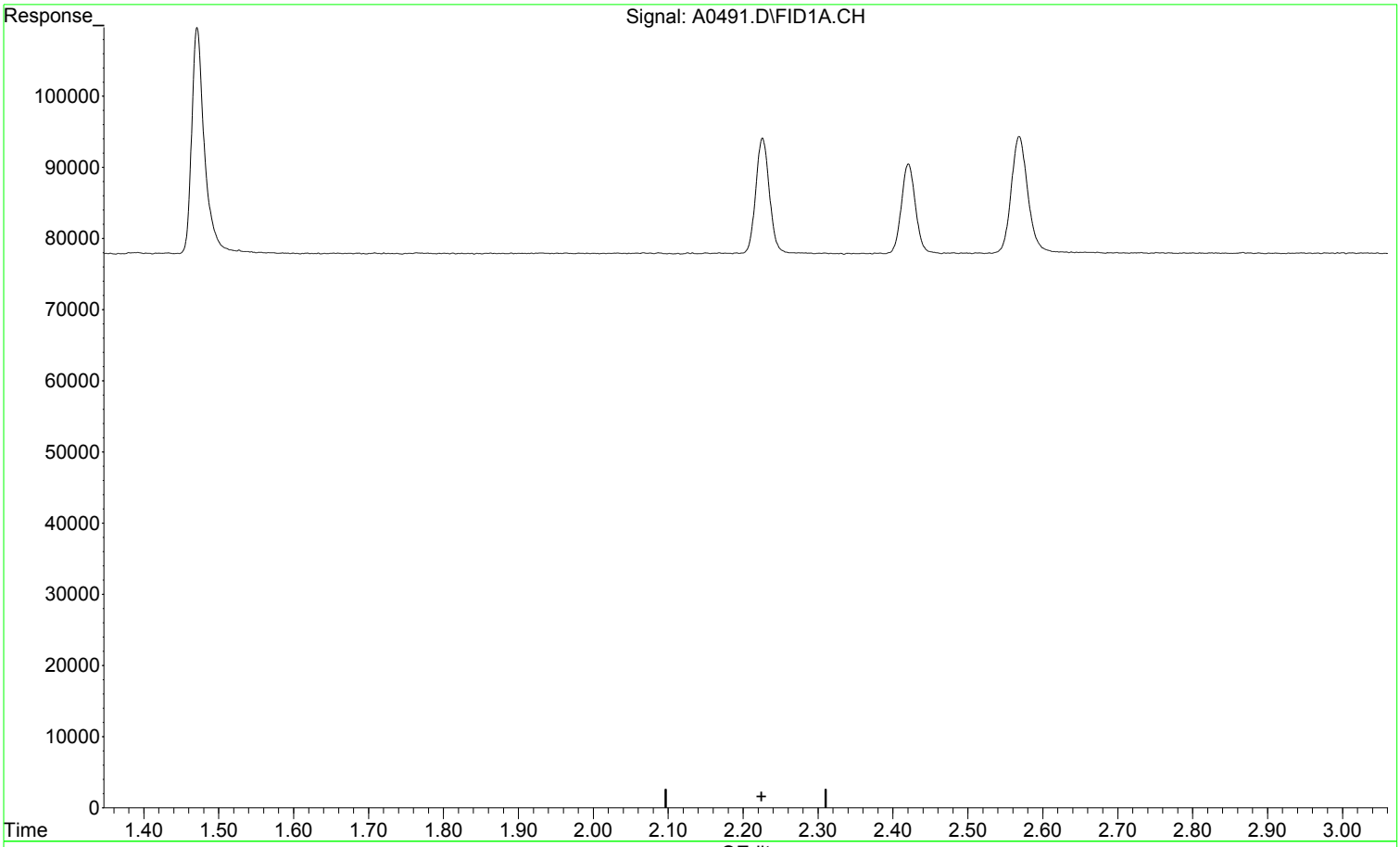
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(2) Acetylene
2.225min 0.000 ug/L
response 0

Manual Integration:
Before

05/02/24

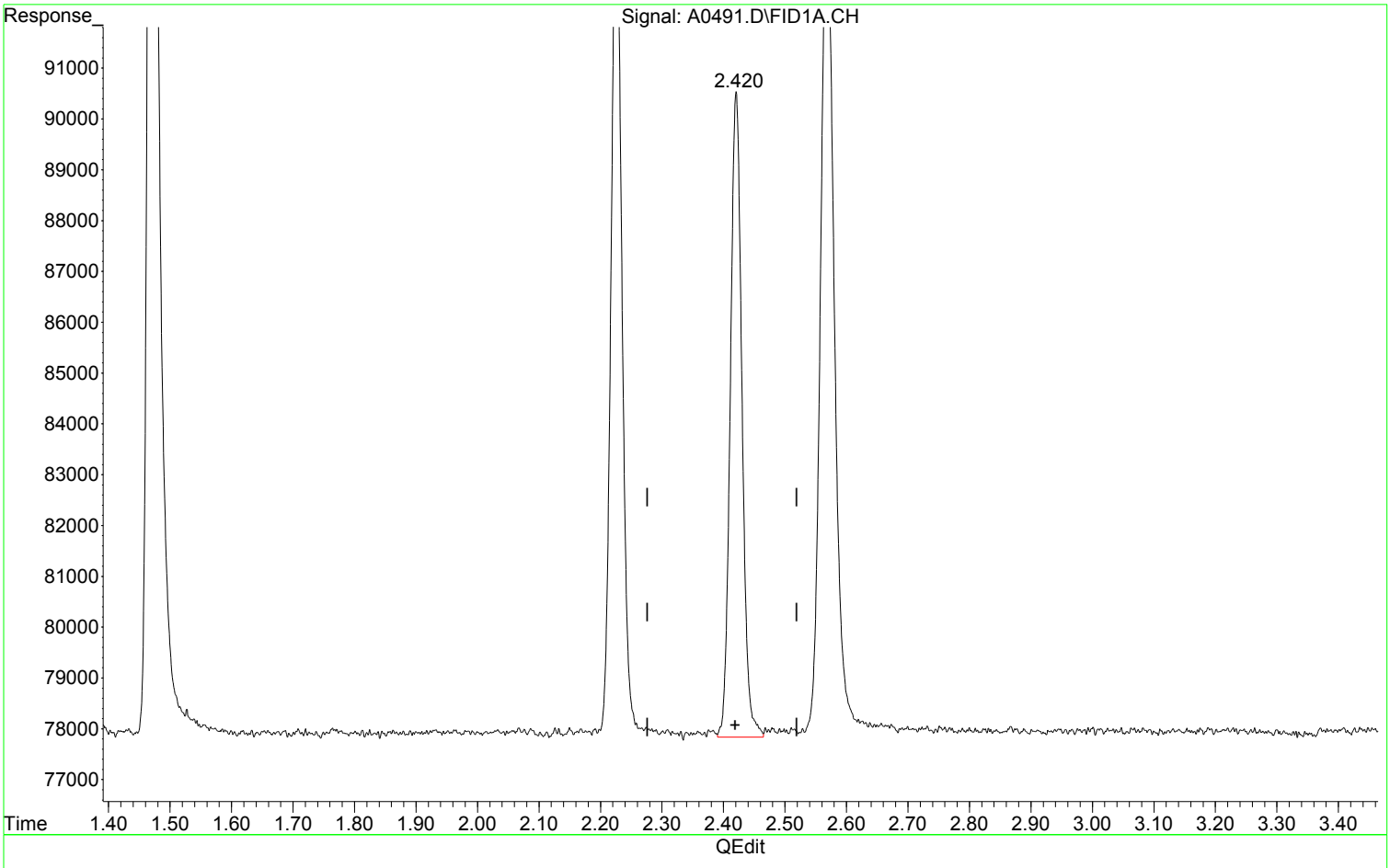
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(3) Ethylene
2.420min 4.203 ug/L m
response 167239

Manual Integration:
After
Peak not found.
05/02/24

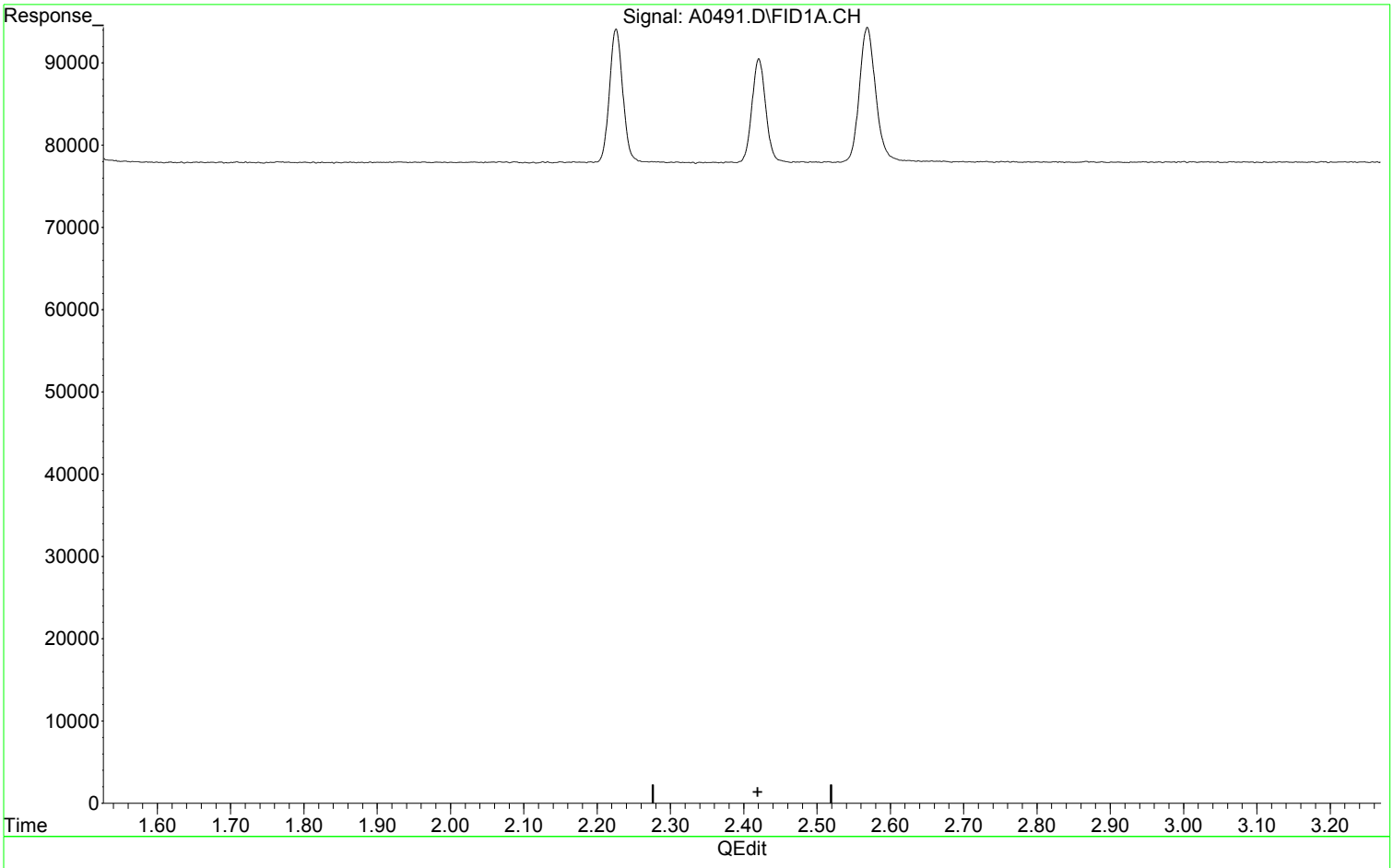
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(3) Ethylene
2.419min 0.000 ug/L
response 0

Manual Integration:
Before

05/02/24

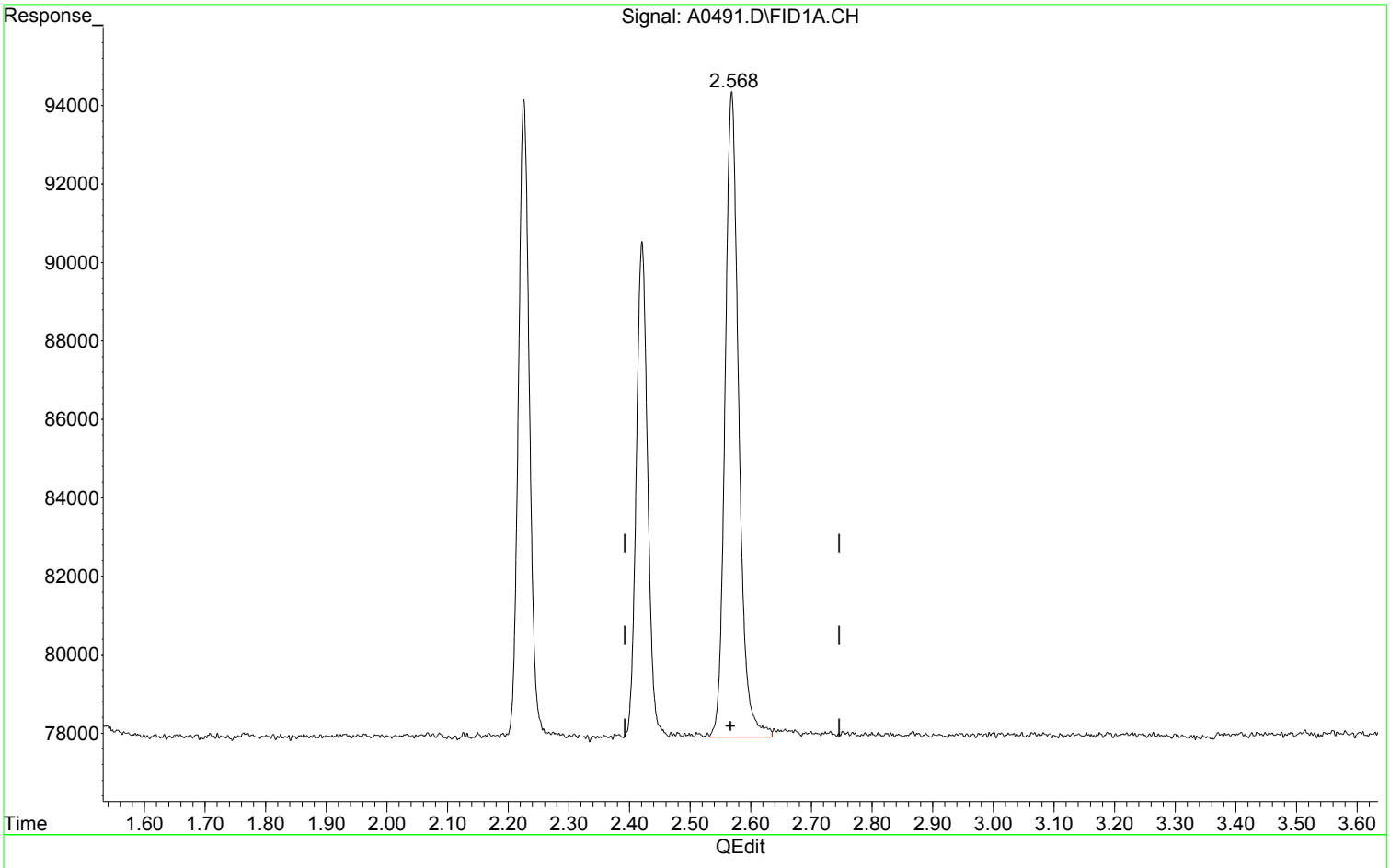
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.568min 4.795 ug/L m
response 258223

Manual Integration:
After
Peak not found.
05/02/24

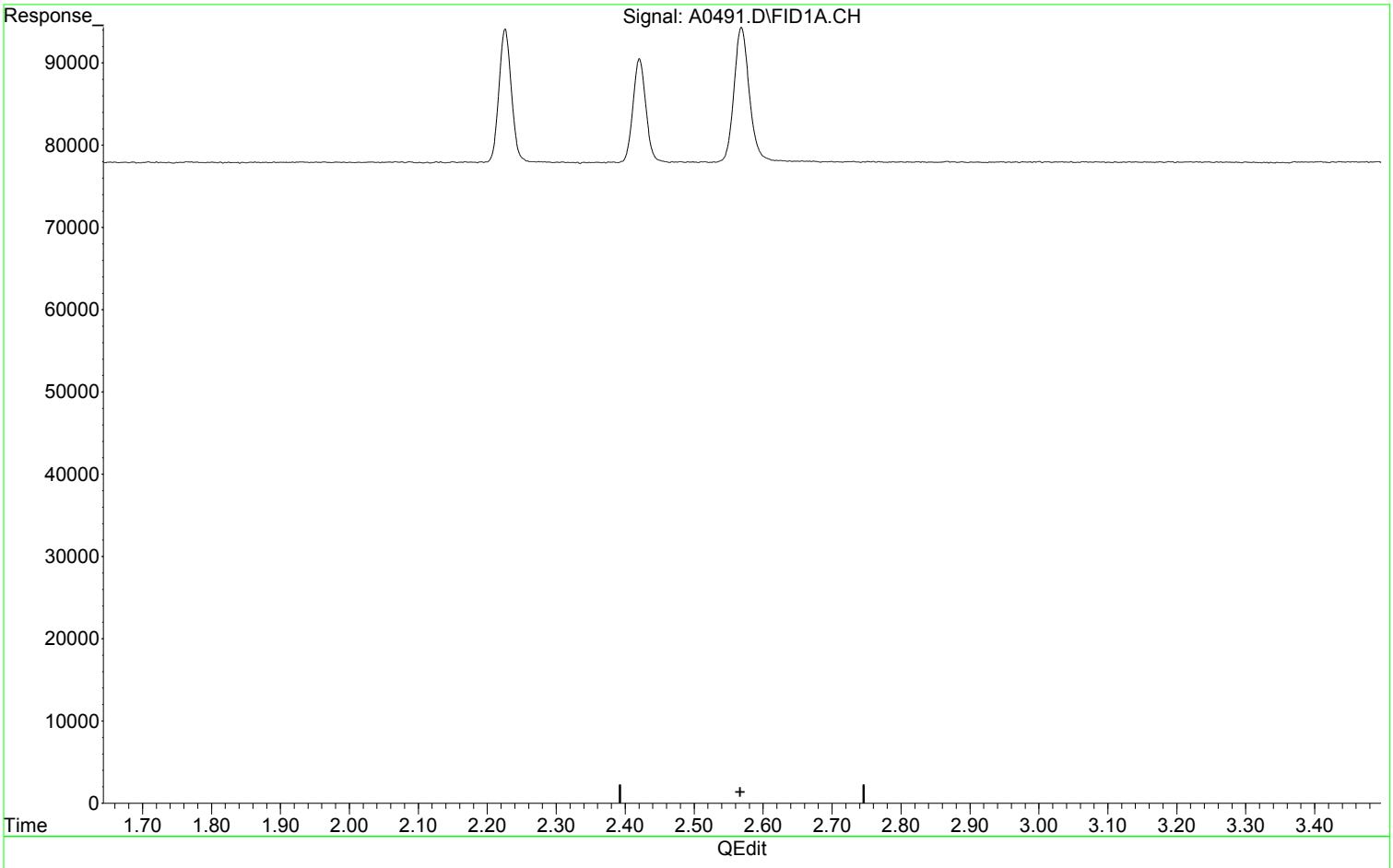
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.567min 0.000 ug/L
response 0

Manual Integration:
Before

05/02/24

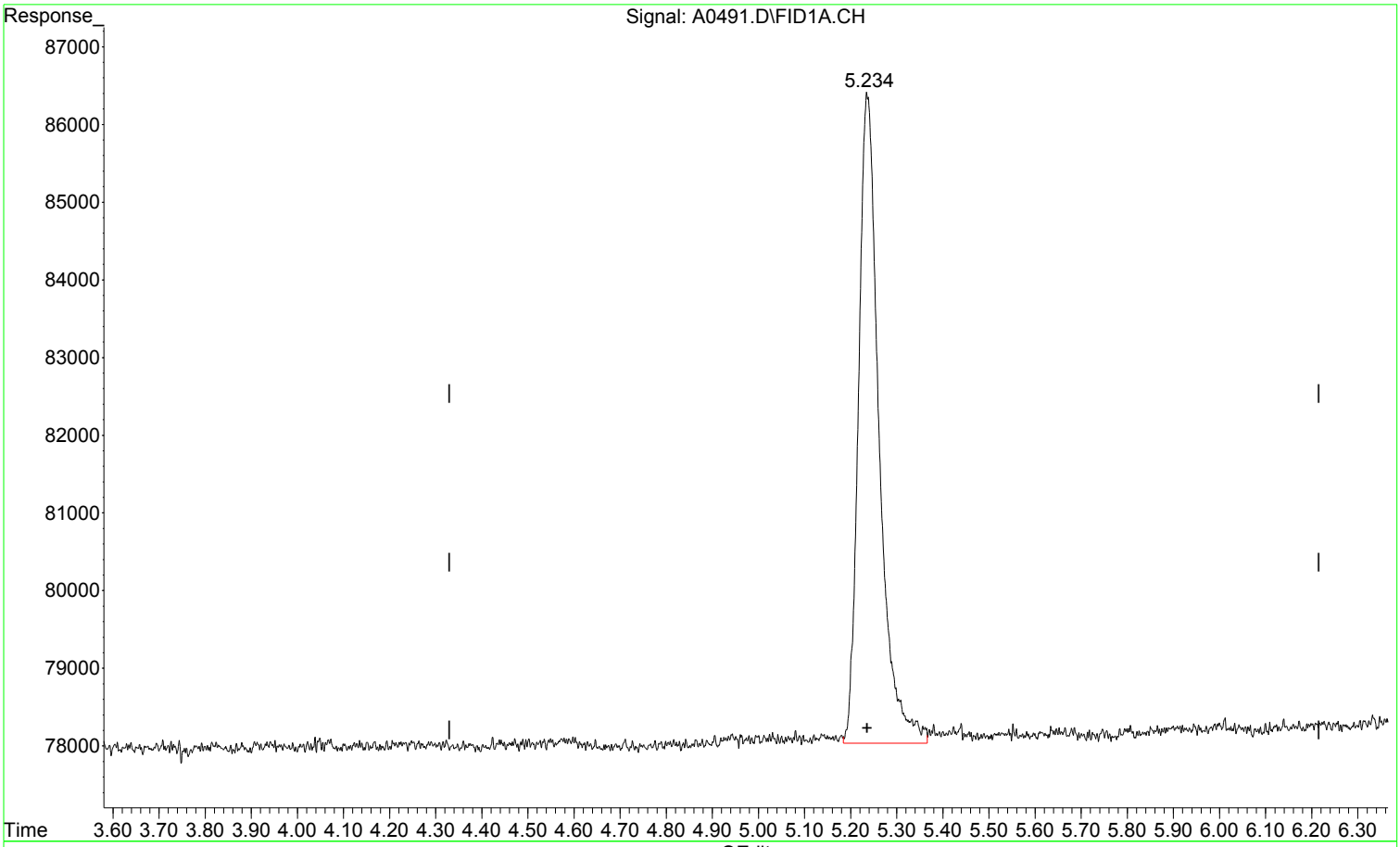
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(5) Propane
5.234min 4.586 ug/L m
response 260025

Manual Integration:
After
Peak not found.
05/02/24

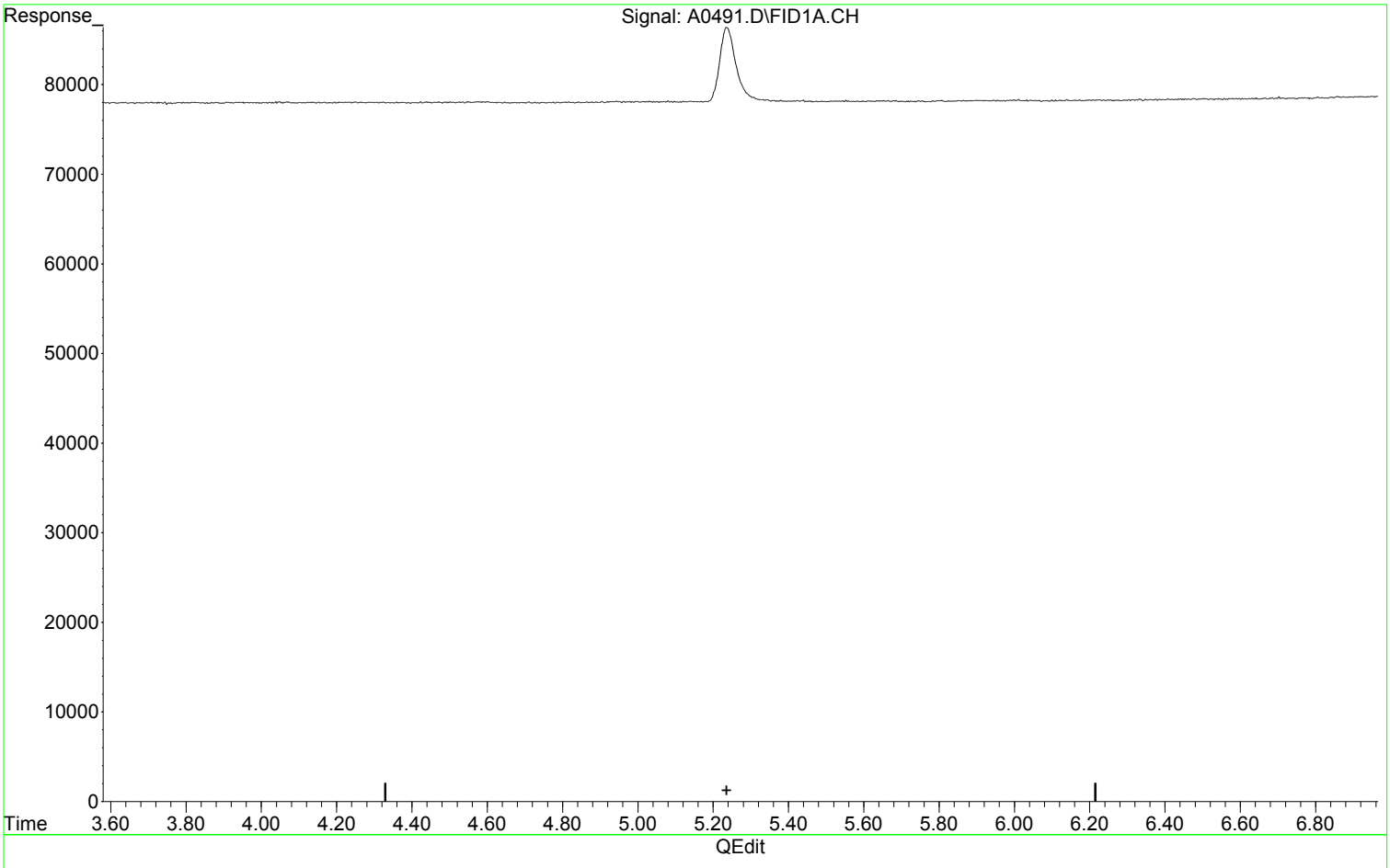
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(5) Propane
5.236min 0.000 ug/L
response 0

Manual Integration:
Before

05/02/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.471	377393	6.147 ug/L
2)	Acetylene	2.226	204234	8.893 ug/L m
3)	Ethylene	2.420	167239	4.203 ug/L m
4)	Ethane	2.568	258223	4.795 ug/L m
5)	Propane	5.234	260025	4.586 ug/L m

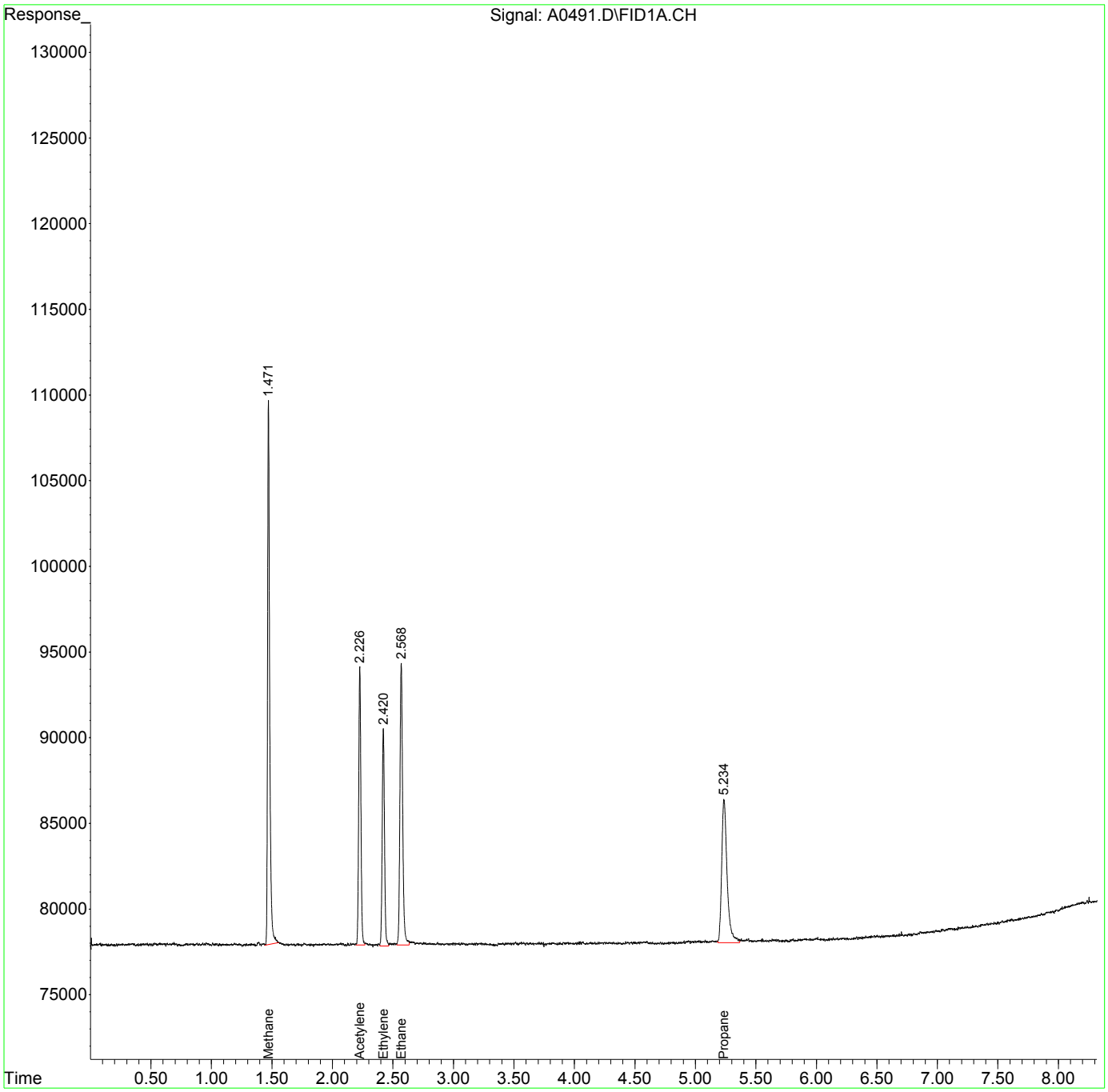
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



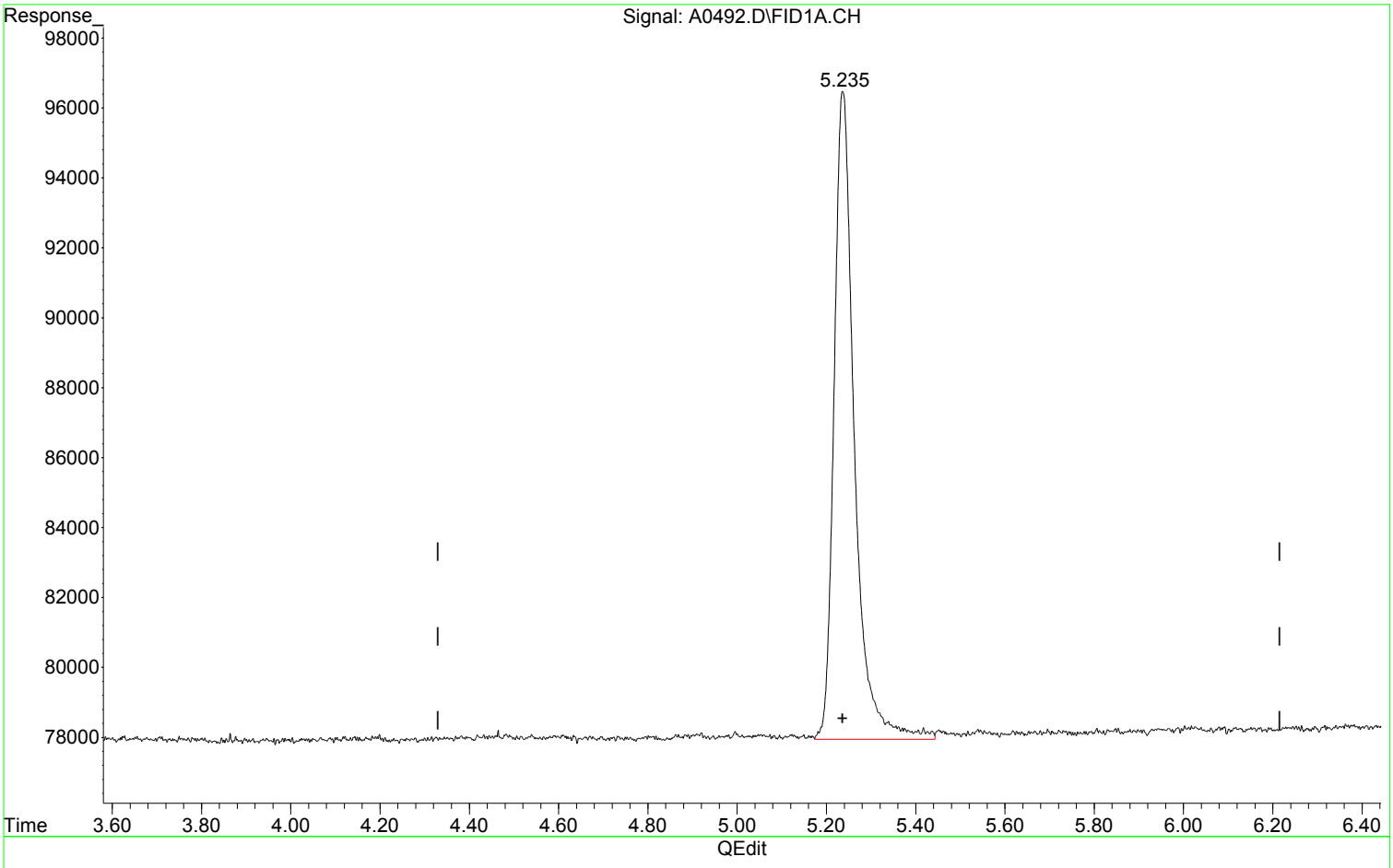
1st FJ 05/02/24
2nd AM 05/03/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0492.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:49 pm
Operator : F.NAEGLER
Sample : 10 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:58:10 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(5) Propane

5.235min 10.345 ug/L m

response 586565

Manual Integration:

After

Poor integration.

05/02/24

(+) = Expected Retention Time

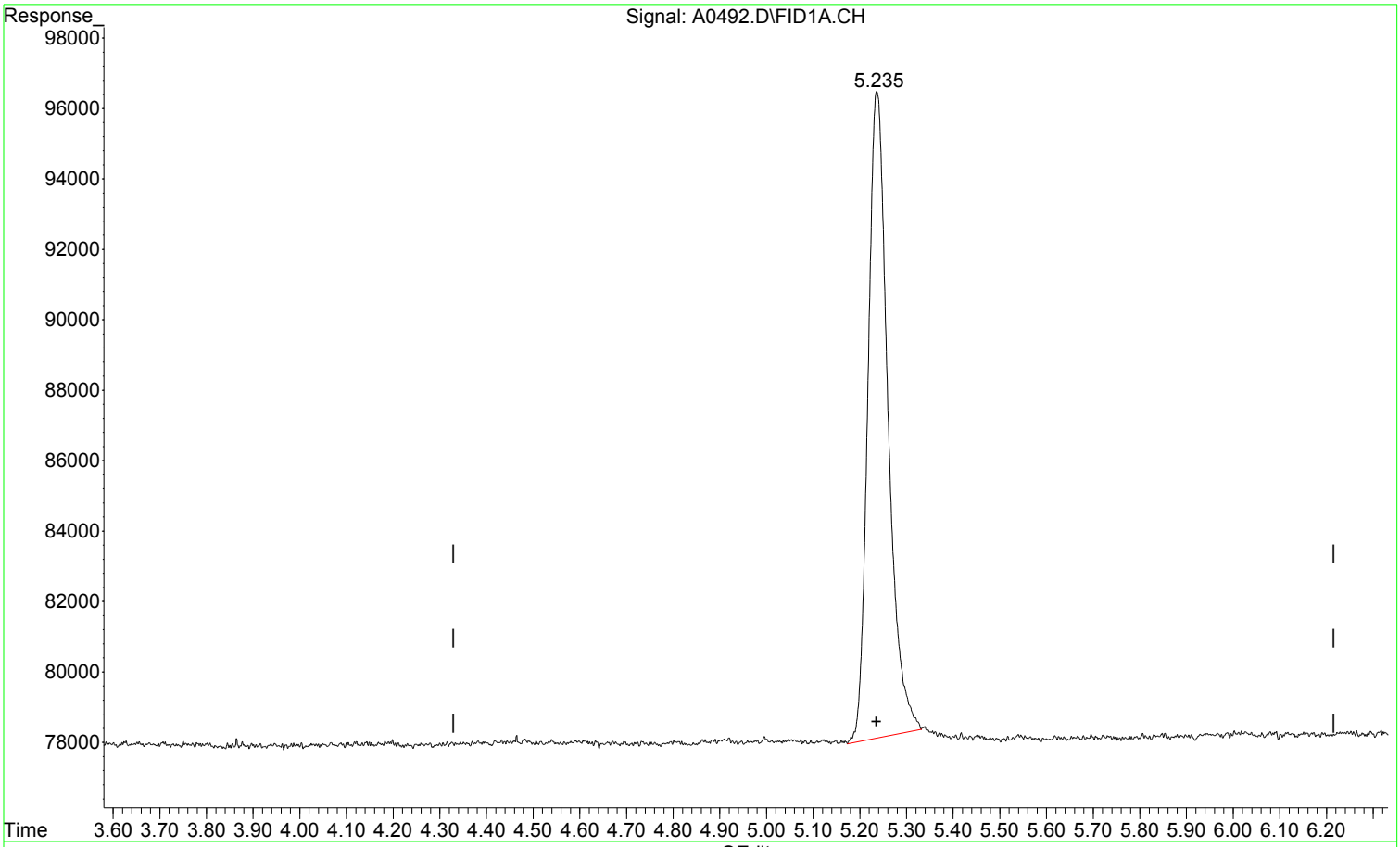
1st FJ 05/02/24
2nd AM 05/03/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0492.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:49 pm
Operator : F.NAEGLER
Sample : 10 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:58:10 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(5) Propane

5.237min 9.644 ug/L

response 546832

Manual Integration:

Before

05/02/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0492.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:49 pm
Operator : F.NAEGLER
Sample : 10 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:58:10 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.472	727006	11.841	ug/L
2)	Acetylene	2.227	459289	19.999	ug/L
3)	Ethylene	2.422	374436	9.410	ug/L
4)	Ethane	2.570	562428	10.445	ug/L
5)	Propane	5.235	586565	10.345	ug/L m

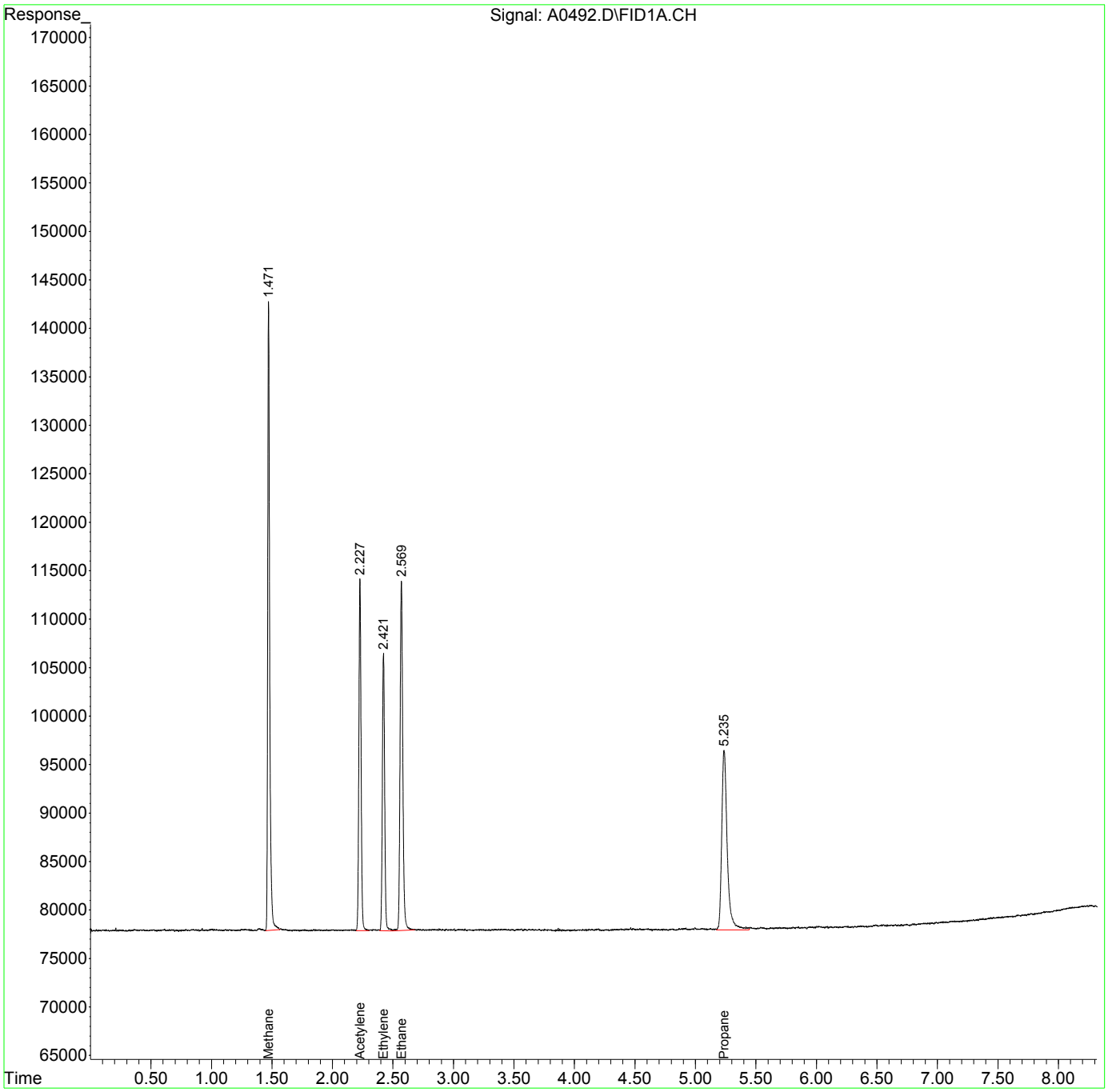
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0492.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:49 pm
Operator : F.NAEGLER
Sample : 10 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:58:10 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0493.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:00 pm
Operator : F.NAEGLER
Sample : 50 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:10:52 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.470	3214930	52.362 ug/L
2)	Acetylene	2.226	2624878	114.298 ug/L
3)	Ethylene	2.421	2322540	58.371 ug/L
4)	Ethane	2.568	3117518	57.895 ug/L
5)	Propane	5.236	3236715	57.083 ug/L

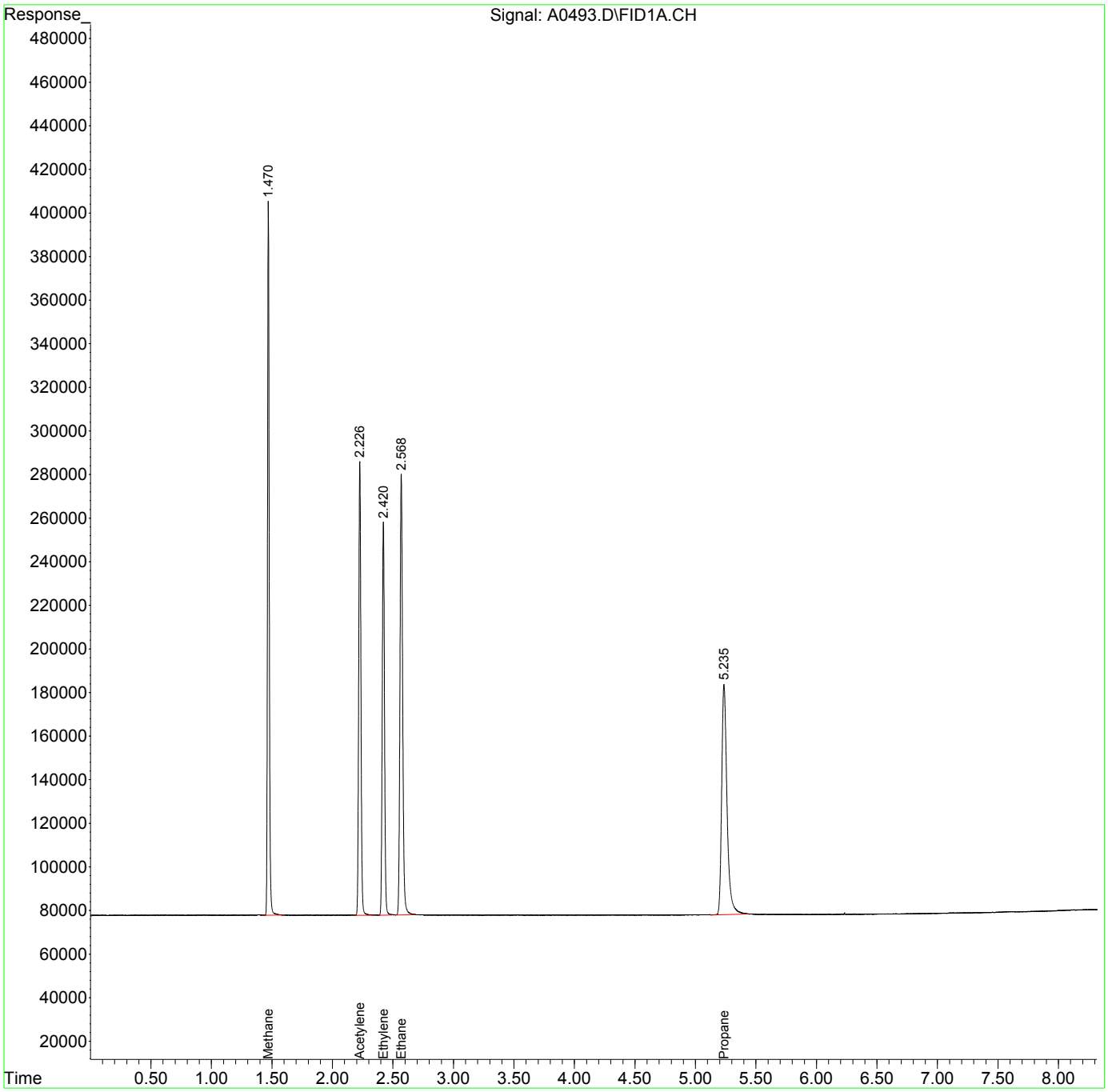
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0493.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:00 pm
Operator : F.NAEGLER
Sample : 50 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:10:52 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0494.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:12 pm
Operator : F.NAEGLER
Sample : 100 PPB STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:21:22 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.469	5418591	88.254	ug/L
2)	Acetylene	2.224	4437102	193.209	ug/L
3)	Ethylene	2.419	3694078	92.840	ug/L
4)	Ethane	2.567	5320059	98.799	ug/L
5)	Propane	5.235	5560210	98.060	ug/L

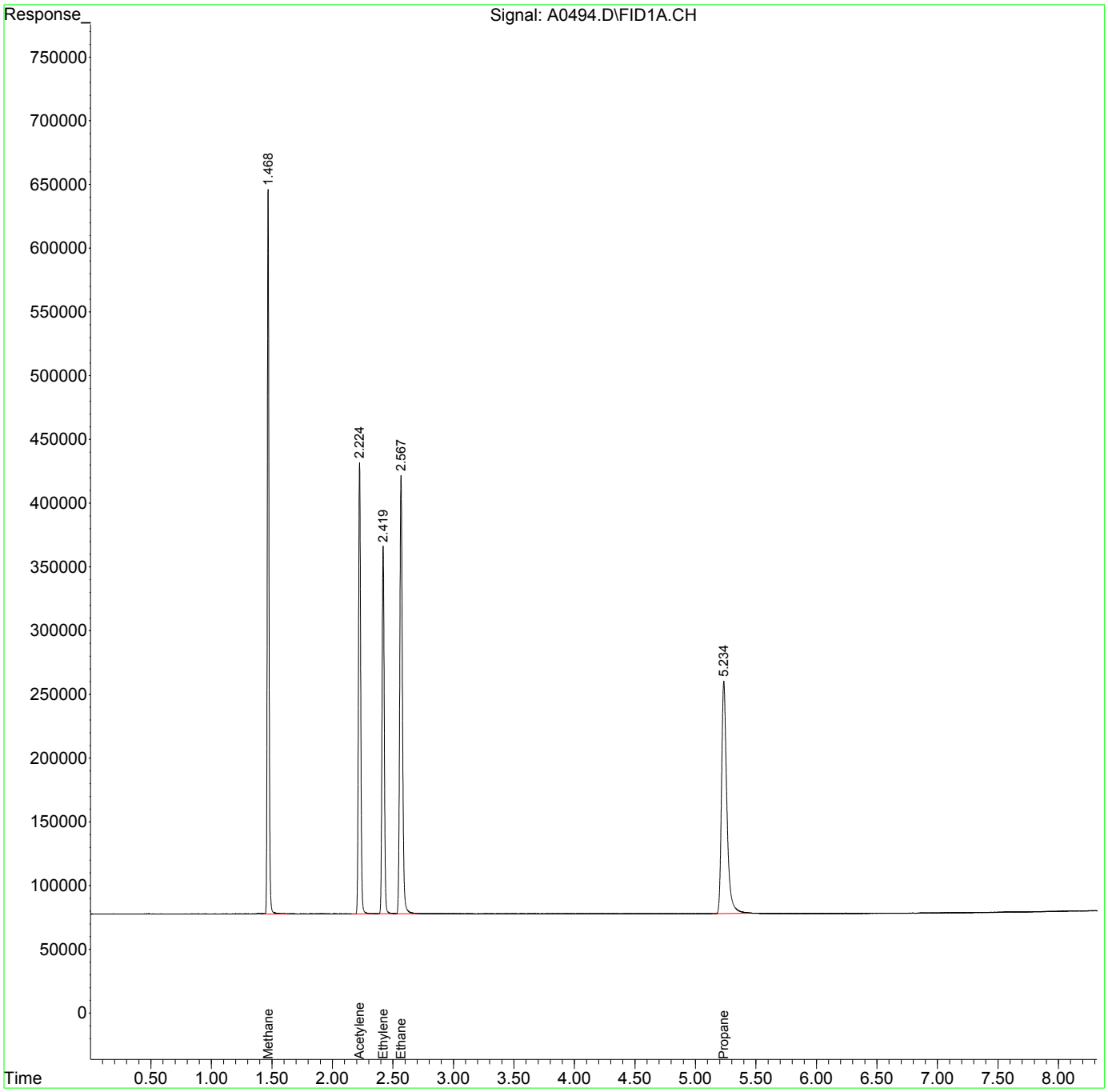
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0494.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:12 pm
Operator : F.NAEGLER
Sample : 100 PPB STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:21:22 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0495.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:25 pm
Operator : F.NAEGLER
Sample : 250 PPB STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:34:20 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.467	13990118	227.860 ug/L
2)	Acetylene	2.223	11801293	513.876 ug/L
3)	Ethylene	2.418	10615846	266.800 ug/L
4)	Ethane	2.565	14055083	261.016 ug/L
5)	Propane	5.233	14723903	259.670 ug/L

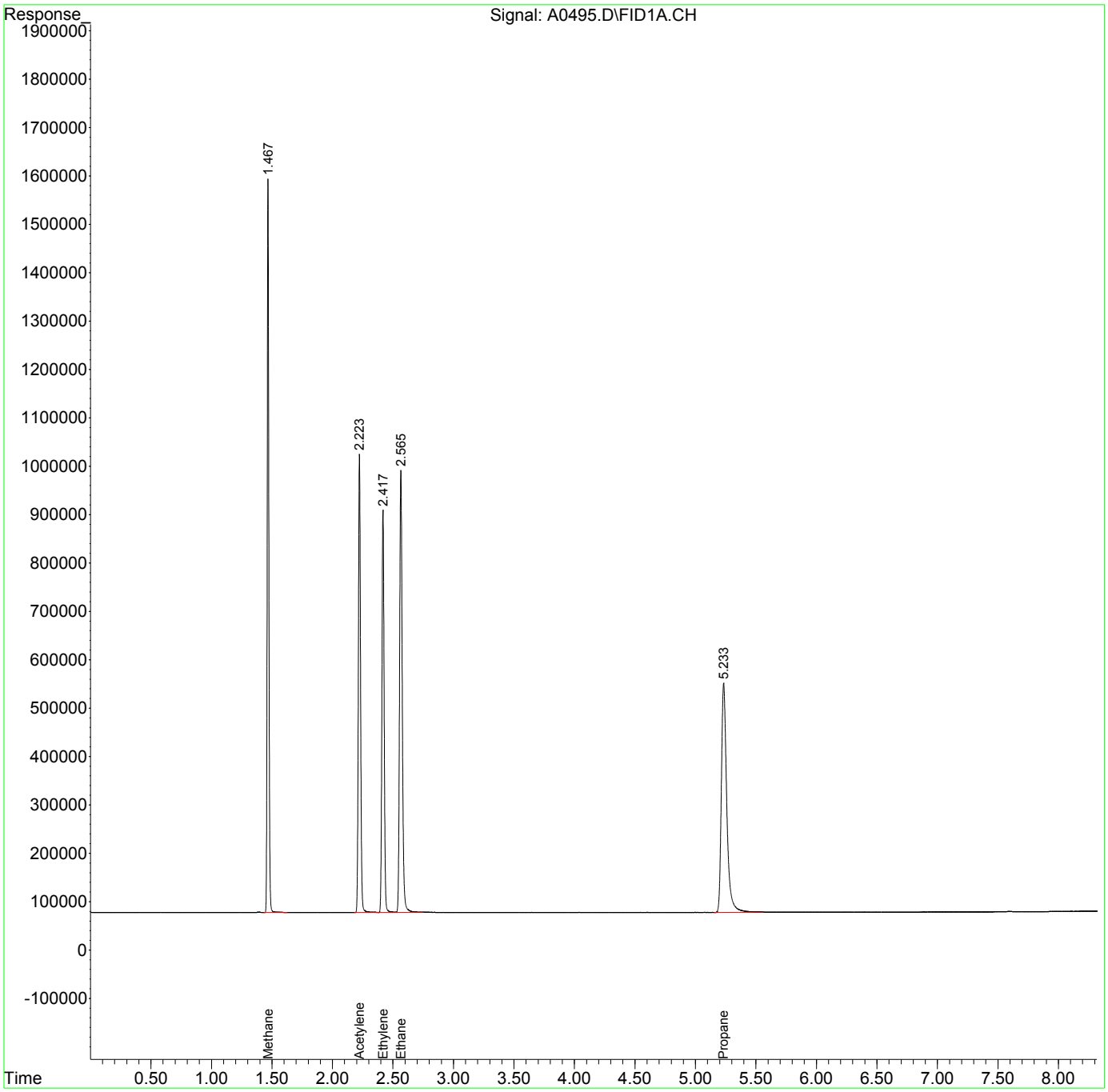
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0495.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:25 pm
Operator : F.NAEGLER
Sample : 250 PPB STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:34:20 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0496.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:37 pm
Operator : F.NAEGLER
Sample : 375 PPB STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:47:17 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.469	21884847	356.443 ug/L
2)	Acetylene	2.224	18171519	791.261 ug/L
3)	Ethylene	2.418	16170682	406.405 ug/L
4)	Ethane	2.566	21759513	404.095 ug/L
5)	Propane	5.234	22727156	400.815 ug/L

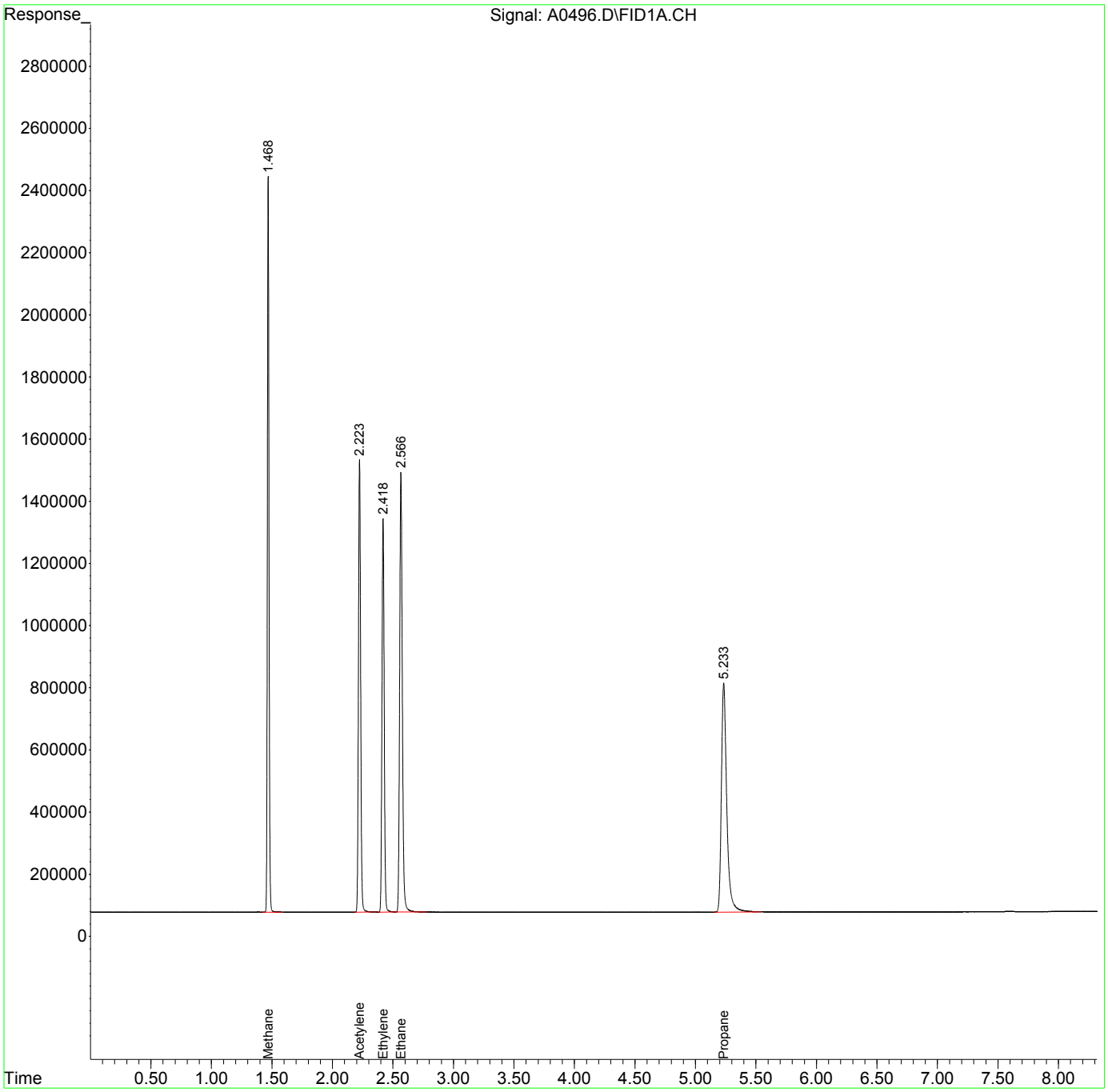
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0496.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:37 pm
Operator : F.NAEGLER
Sample : 375 PPB STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:47:17 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0497.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:49 pm
Operator : F.NAEGLER
Sample : 500 PPB STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:59:21 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:50:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.468	28142971	464.331 ug/L
2)	Acetylene	2.224	23609982	1015.136 ug/L
3)	Ethylene	2.418	20770596	505.212 ug/L
4)	Ethane	2.566	28288871	523.225 ug/L
5)	Propane	5.234	29723608	518.290 ug/L

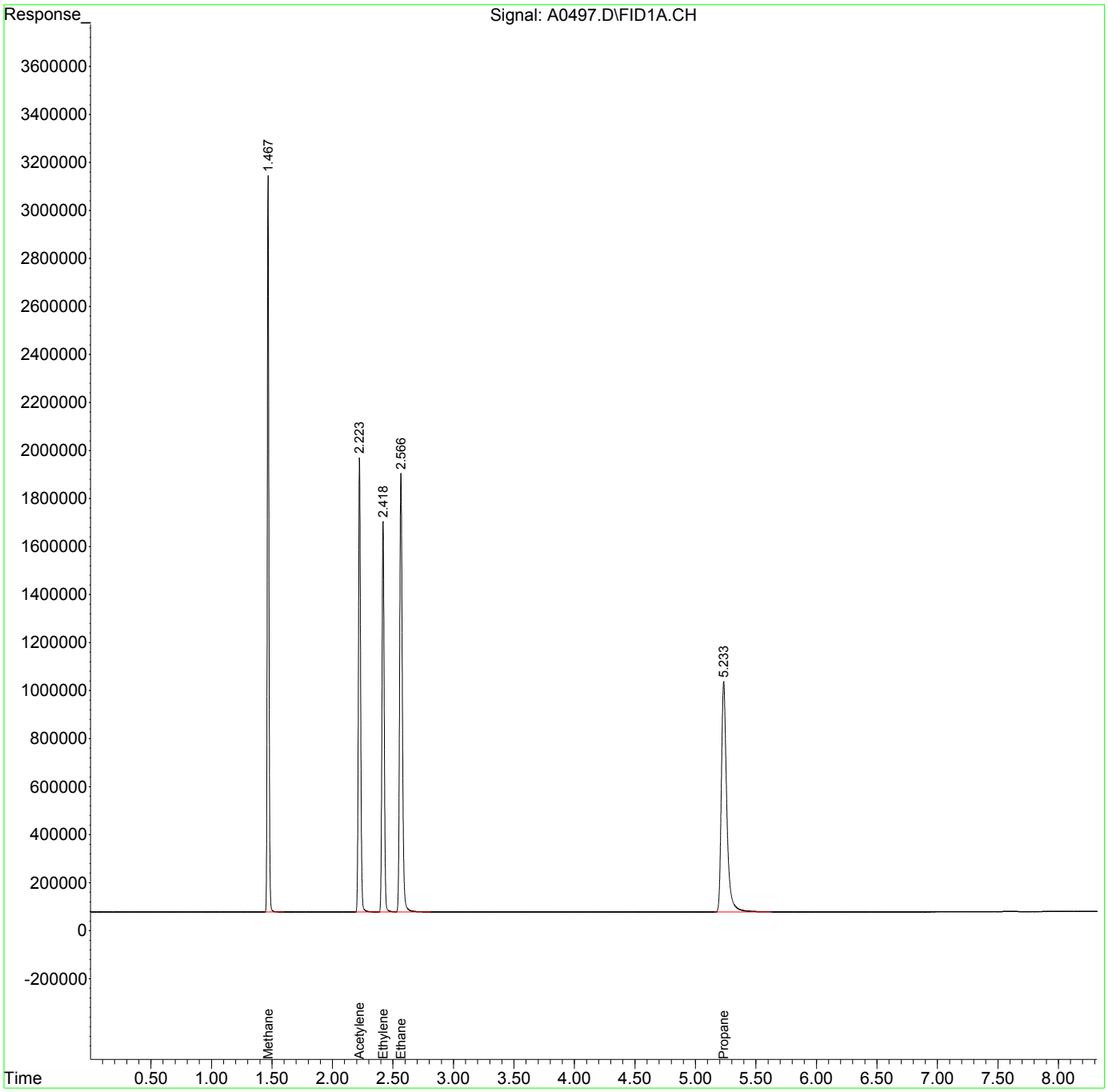
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0497.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:49 pm
Operator : F.NAEGLER
Sample : 500 PPB STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:59:21 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:50:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0499.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 4:17 pm
Operator : F.NAEGLER
Sample : 250 PPB ICV
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:27:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Methane	262.300	240.007	8.5	102	0.00
2	Acetylene	500.600	519.197	-3.7	103	0.00
3	Ethylene	242.800	253.528	-4.4	99	0.00
4	Ethane	260.300	267.485	-2.8	103	0.00
5	Propane	254.500	262.040	-3.0	102	0.00

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0499.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 4:17 pm
Operator : F.NAEGLER
Sample : 250 PPB ICV
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:27:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.468	14308021	240.007	ug/L
2)	Acetylene	2.223	12099466	519.197	ug/L
3)	Ethylene	2.418	10483009	253.528	ug/L
4)	Ethane	2.566	14471962	267.485	ug/L
5)	Propane	5.234	15066997	262.040	ug/L

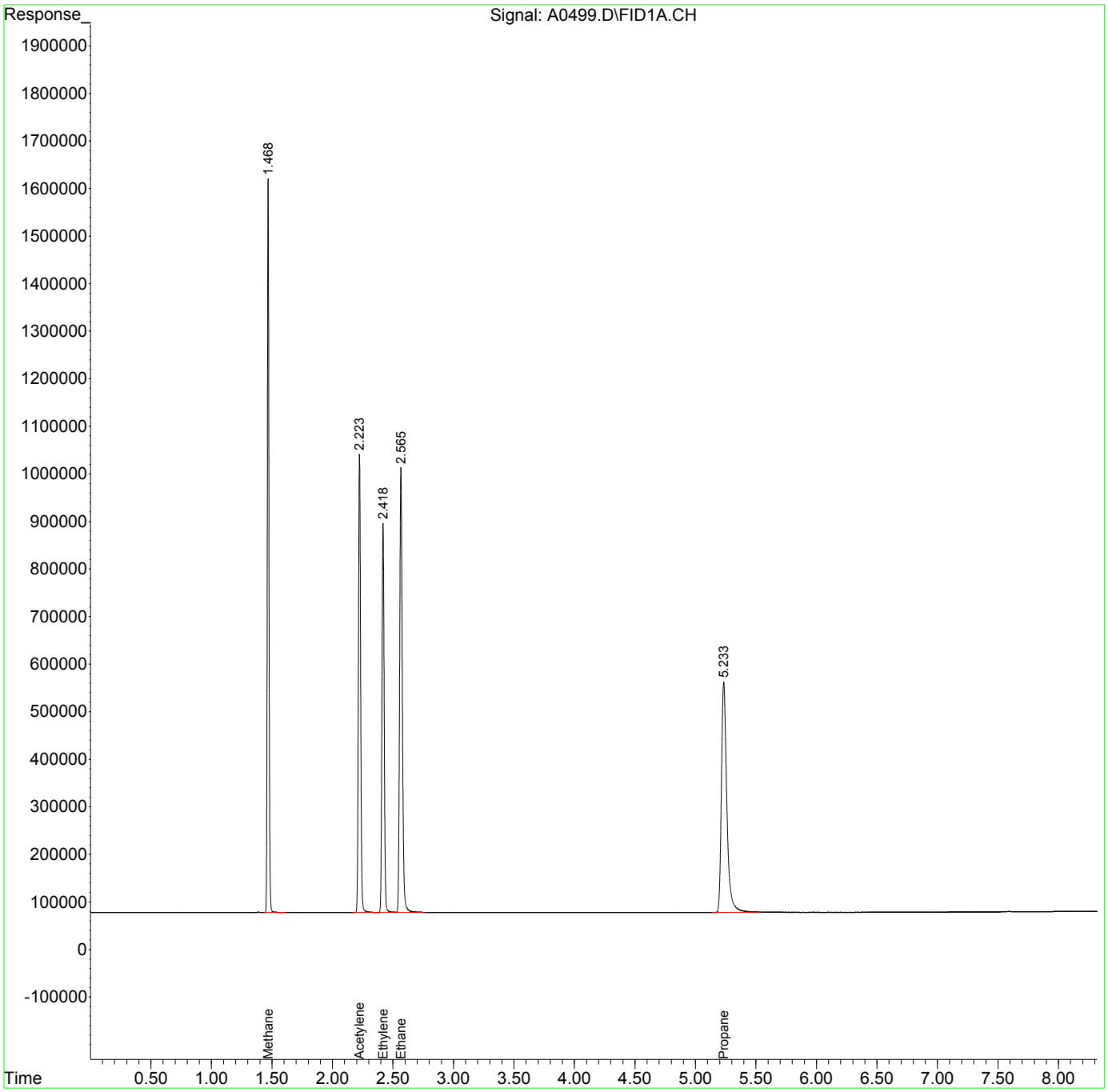
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0499.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 4:17 pm
Operator : F.NAEGLER
Sample : 250 PPB ICV
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:27:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



1st FJ 05/02/24
2nd AM 05/03/24

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0499.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 4:17 pm
Operator : F.NAEGLER
Sample : 250 PPB ICV
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:27:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Methane	262.300	240.007	8.5	102	0.00
2	Acetylene	500.600	519.197	-3.7	103	0.00
3	Ethylene	242.800	253.528	-4.4	99	0.00
4	Ethane	260.300	267.485	-2.8	103	0.00
5	Propane	254.500	262.040	-3.0	102	0.00

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0497.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:49 pm
Operator : F.NAEGLER
Sample : 500 PPB STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:59:21 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:50:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.468	28142971	464.331	ug/L
2)	Acetylene	2.224	23609982	1015.136	ug/L
3)	Ethylene	2.418	20770596	505.212	ug/L
4)	Ethane	2.566	28288871	523.225	ug/L
5)	Propane	5.234	29723608	518.290	ug/L

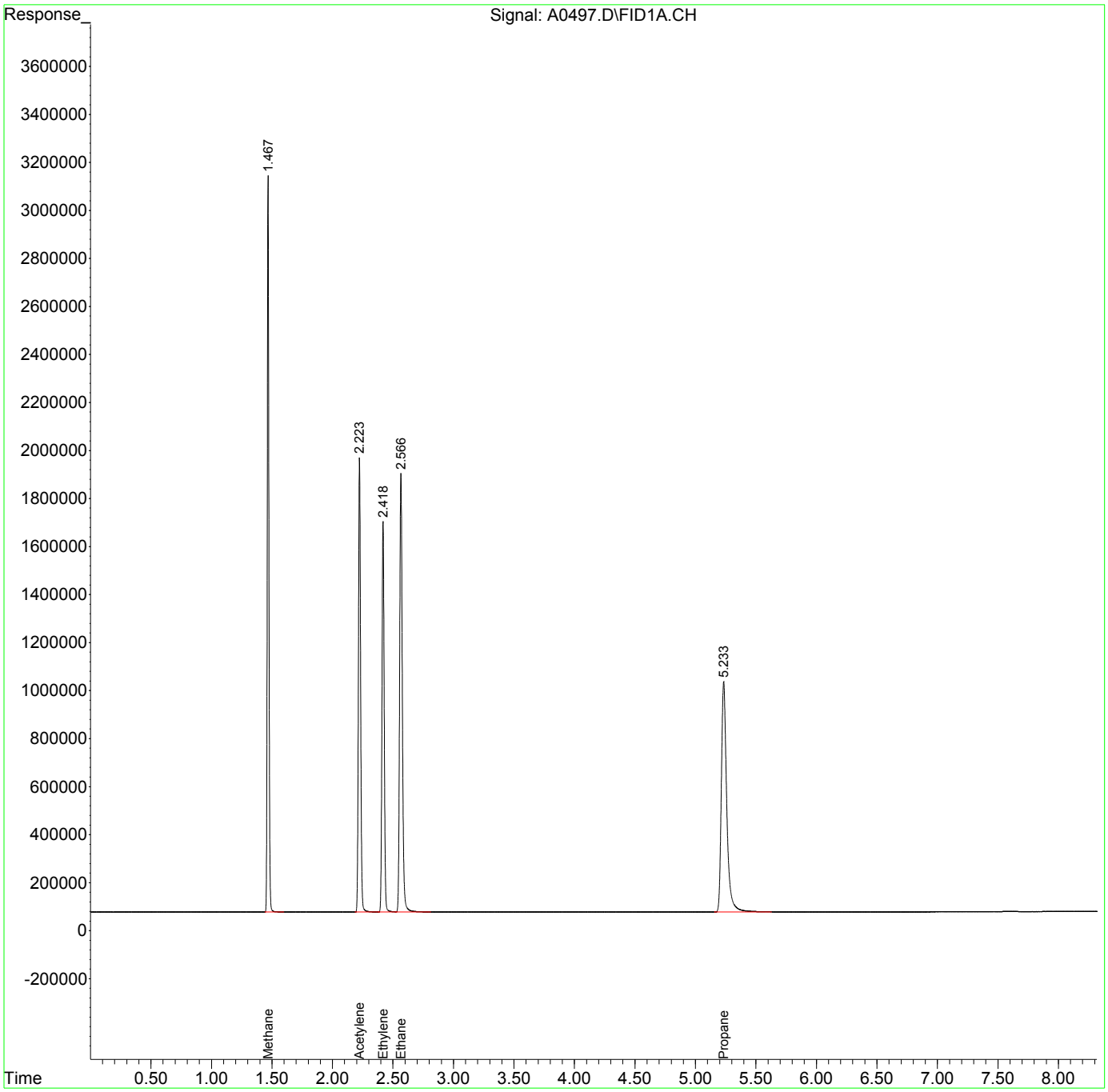
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0497.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:49 pm
Operator : F.NAEGLER
Sample : 500 PPB STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:59:21 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:50:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0496.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:37 pm
Operator : F.NAEGLER
Sample : 375 PPB STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:47:17 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.469	21884847	356.443 ug/L
2)	Acetylene	2.224	18171519	791.261 ug/L
3)	Ethylene	2.418	16170682	406.405 ug/L
4)	Ethane	2.566	21759513	404.095 ug/L
5)	Propane	5.234	22727156	400.815 ug/L

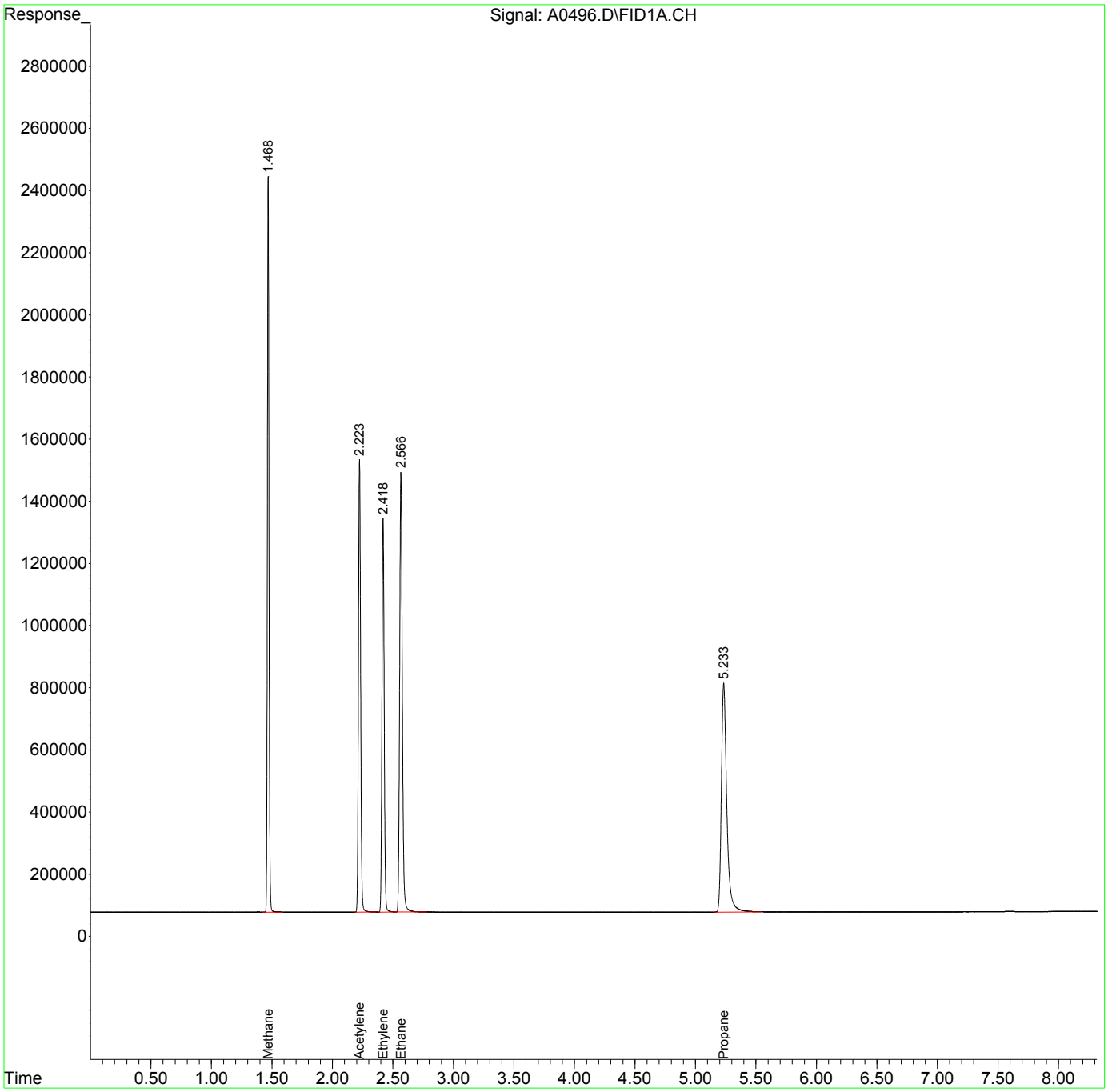
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0496.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:37 pm
Operator : F.NAEGLER
Sample : 375 PPB STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:47:17 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0495.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:25 pm
Operator : F.NAEGLER
Sample : 250 PPB STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:34:20 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.467	13990118	227.860 ug/L
2)	Acetylene	2.223	11801293	513.876 ug/L
3)	Ethylene	2.418	10615846	266.800 ug/L
4)	Ethane	2.565	14055083	261.016 ug/L
5)	Propane	5.233	14723903	259.670 ug/L

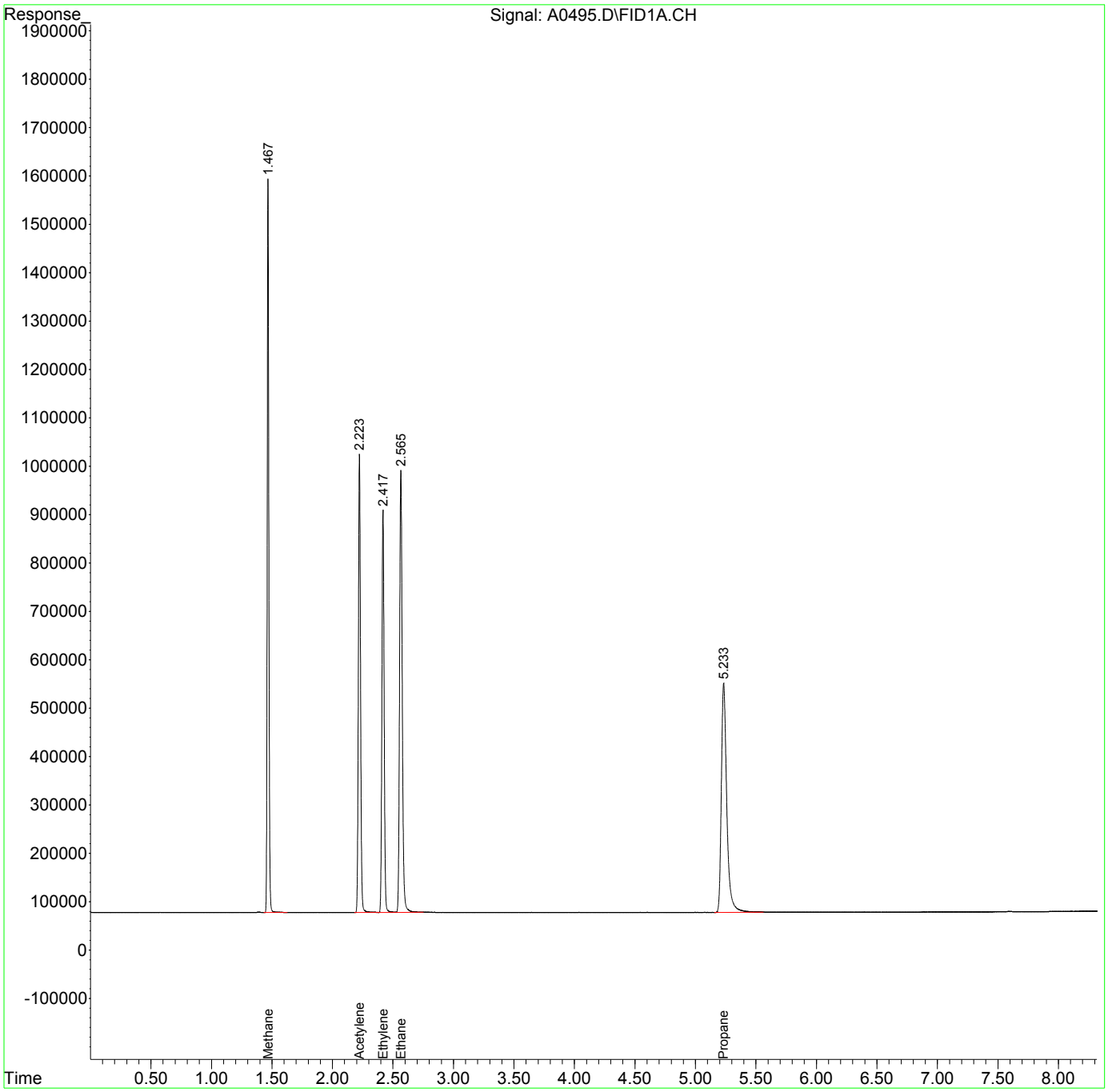
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0495.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:25 pm
Operator : F.NAEGLER
Sample : 250 PPB STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:34:20 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0494.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:12 pm
Operator : F.NAEGLER
Sample : 100 PPB STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:21:22 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.469	5418591	88.254 ug/L
2)	Acetylene	2.224	4437102	193.209 ug/L
3)	Ethylene	2.419	3694078	92.840 ug/L
4)	Ethane	2.567	5320059	98.799 ug/L
5)	Propane	5.235	5560210	98.060 ug/L

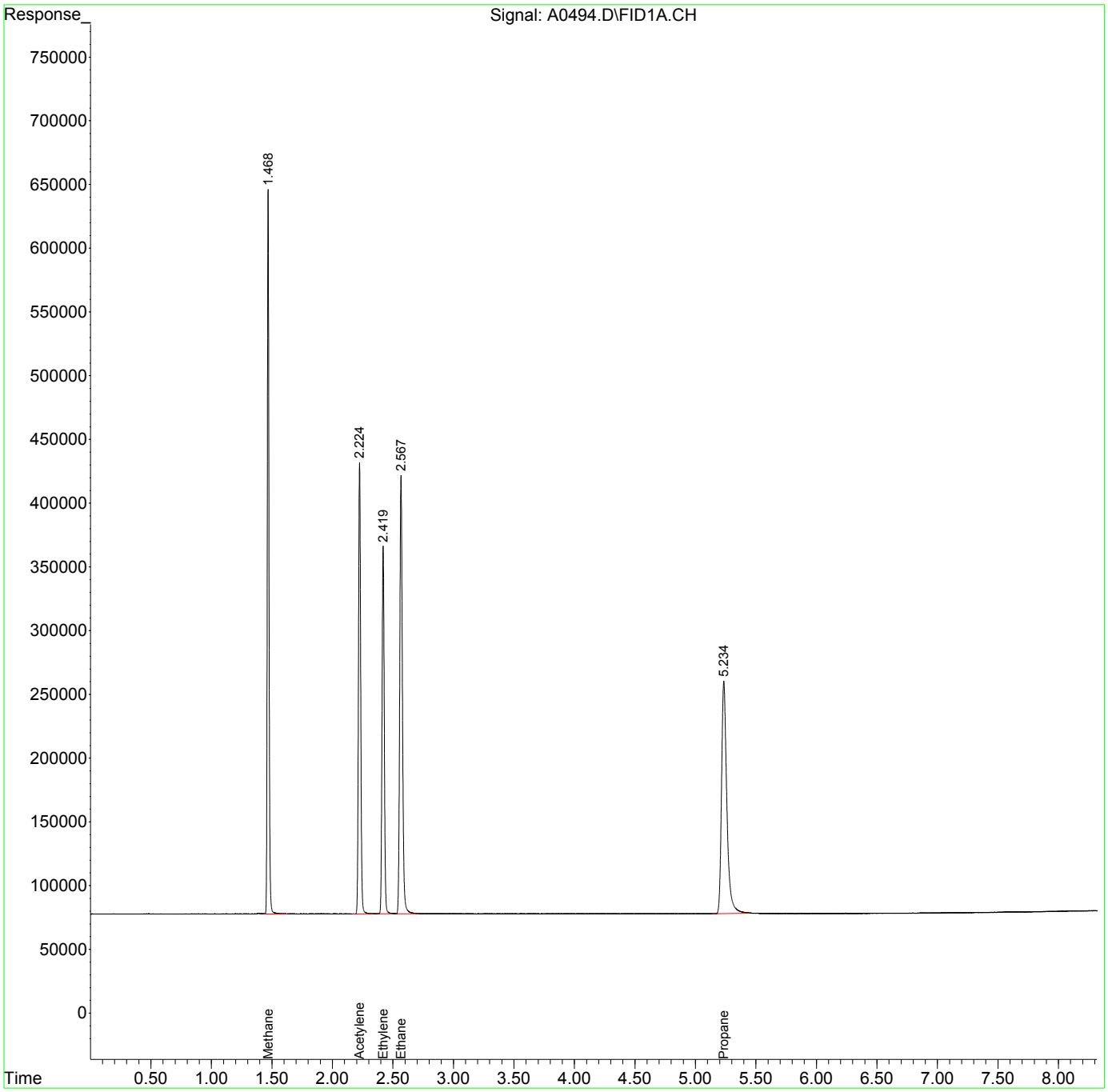
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0494.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:12 pm
Operator : F.NAEGLER
Sample : 100 PPB STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:21:22 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0493.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:00 pm
Operator : F.NAEGLER
Sample : 50 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:10:52 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.470	3214930	52.362 ug/L
2)	Acetylene	2.226	2624878	114.298 ug/L
3)	Ethylene	2.421	2322540	58.371 ug/L
4)	Ethane	2.568	3117518	57.895 ug/L
5)	Propane	5.236	3236715	57.083 ug/L

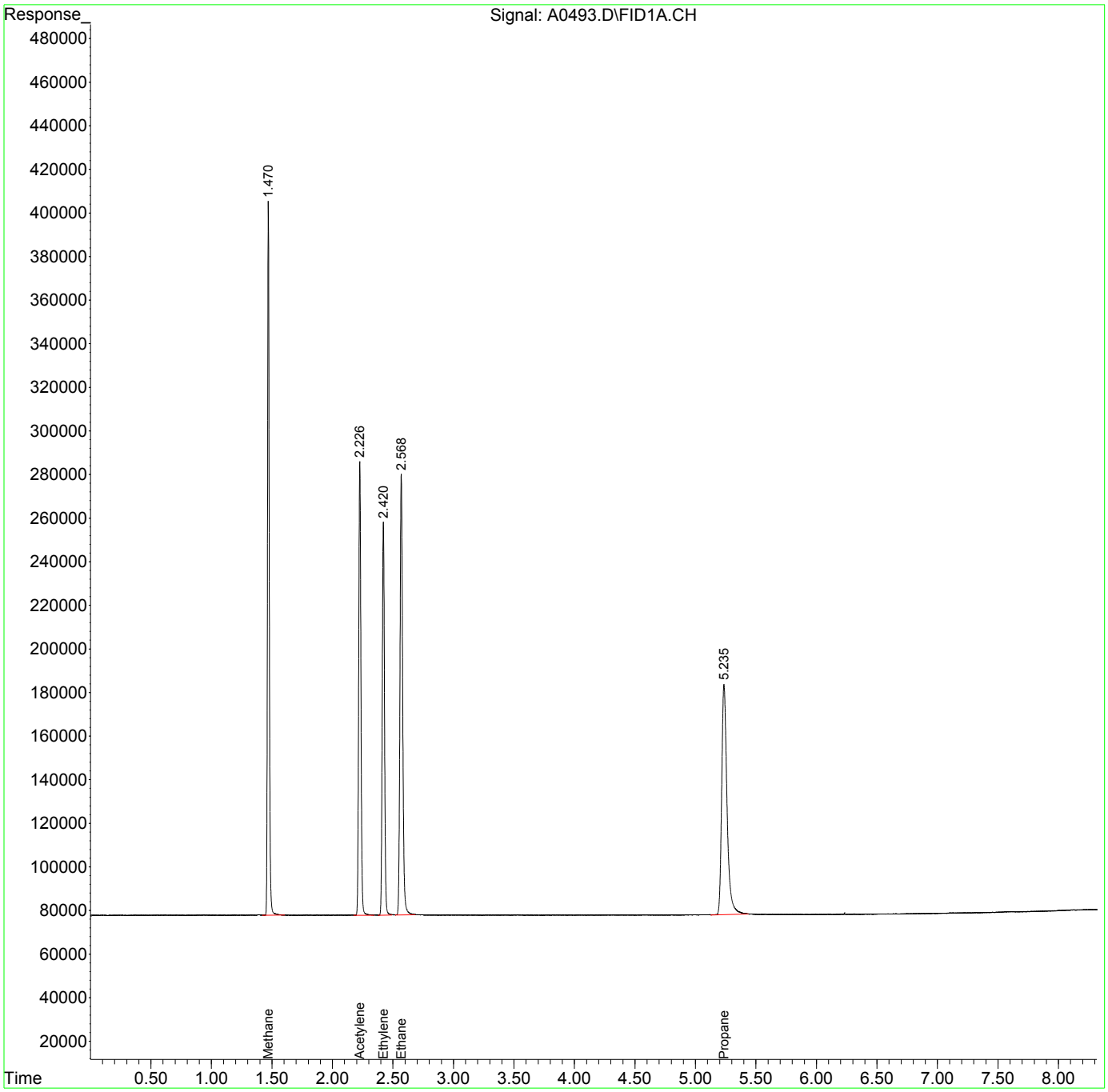
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0493.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 3:00 pm
Operator : F.NAEGLER
Sample : 50 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 15:10:52 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0492.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:49 pm
Operator : F.NAEGLER
Sample : 10 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:58:10 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.472	727006	11.841	ug/L
2)	Acetylene	2.227	459289	19.999	ug/L
3)	Ethylene	2.422	374436	9.410	ug/L
4)	Ethane	2.570	562428	10.445	ug/L
5)	Propane	5.235	586565	10.345	ug/L m

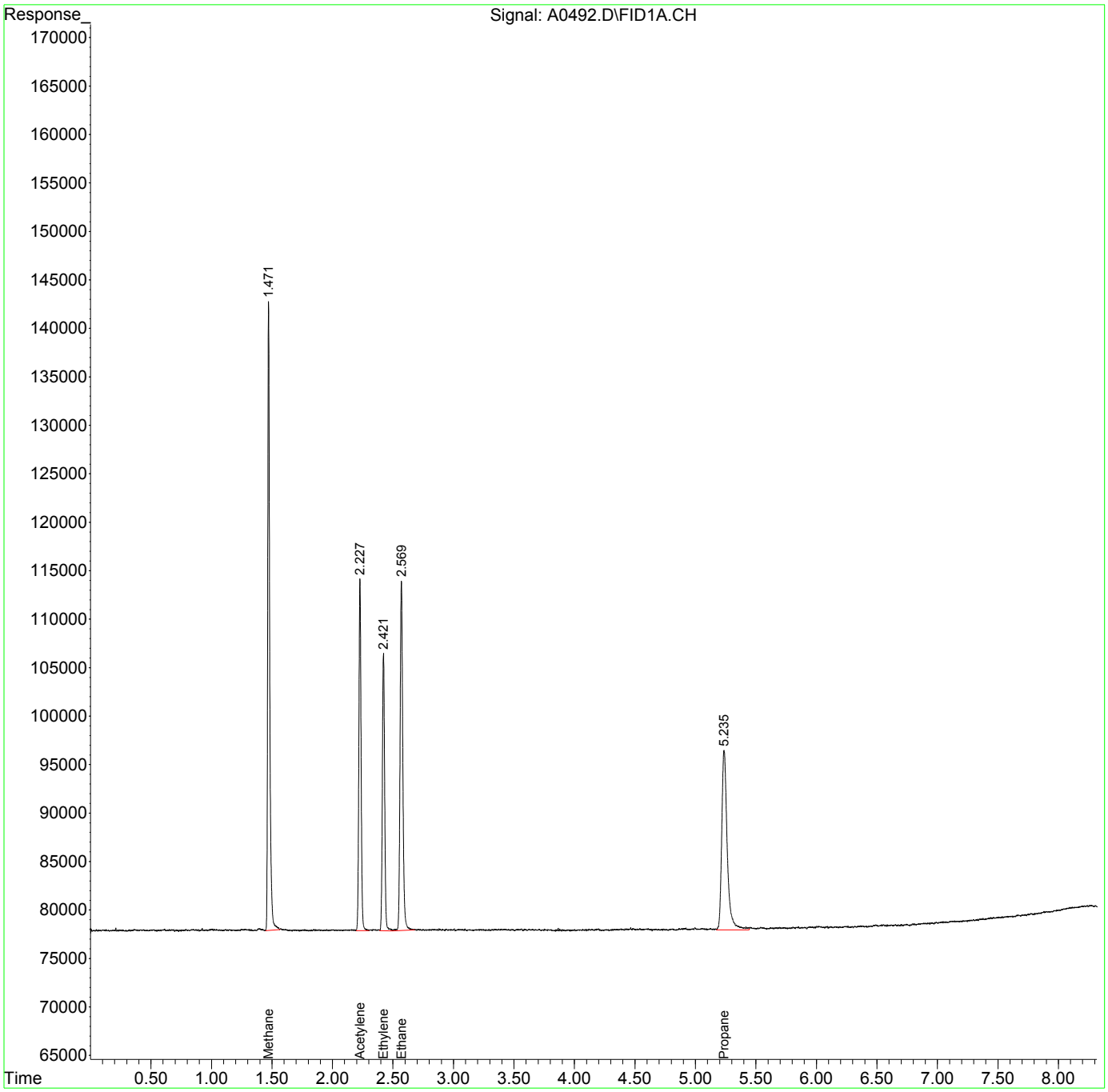
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0492.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:49 pm
Operator : F.NAEGLER
Sample : 10 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:58:10 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



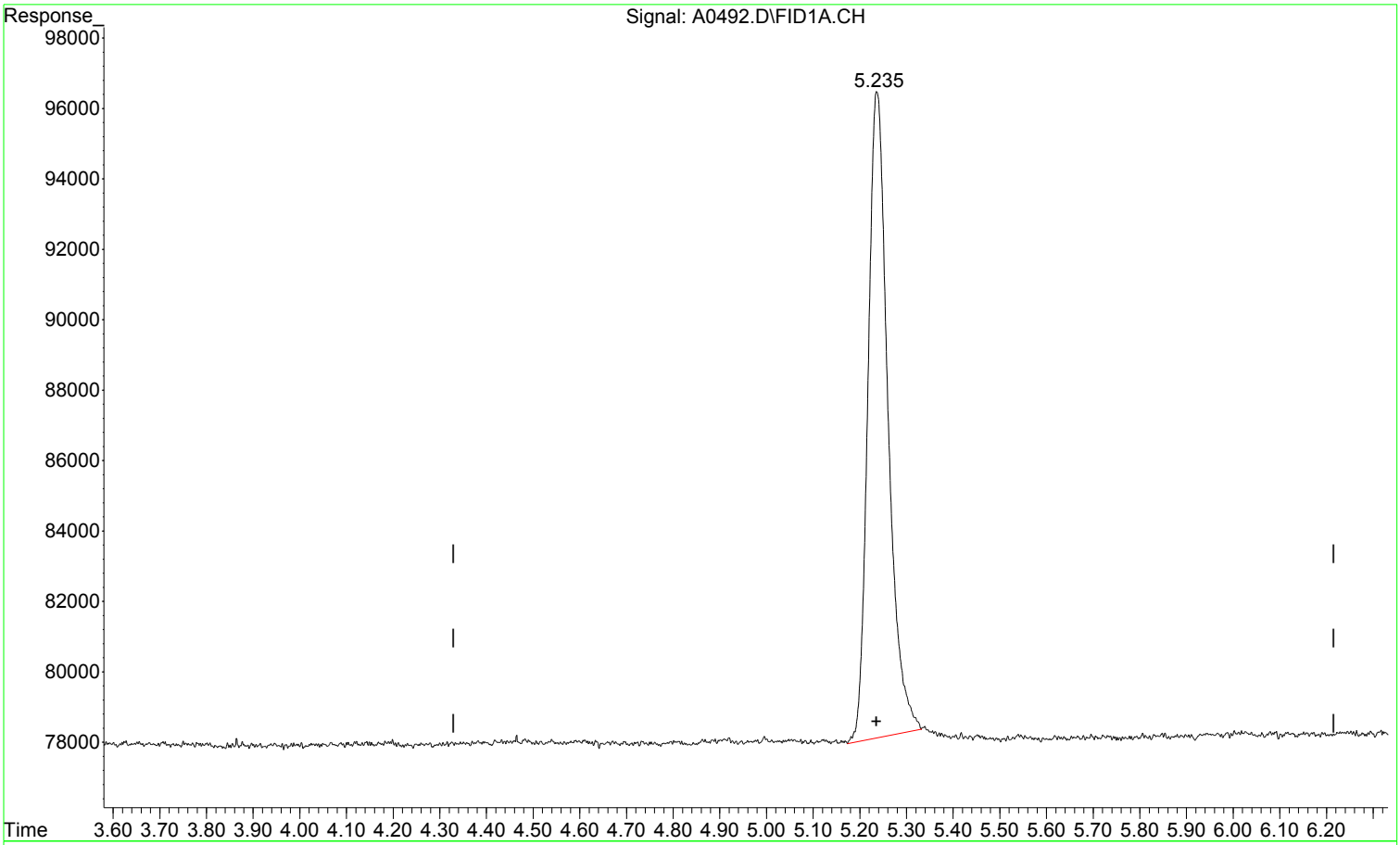
1st FJ 05/02/24
2nd AM 05/03/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0492.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:49 pm
Operator : F.NAEGLER
Sample : 10 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:58:10 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(5) Propane

5.237min 9.644 ug/L

response 546832

Manual Integration:

Before

05/02/24

(+) = Expected Retention Time

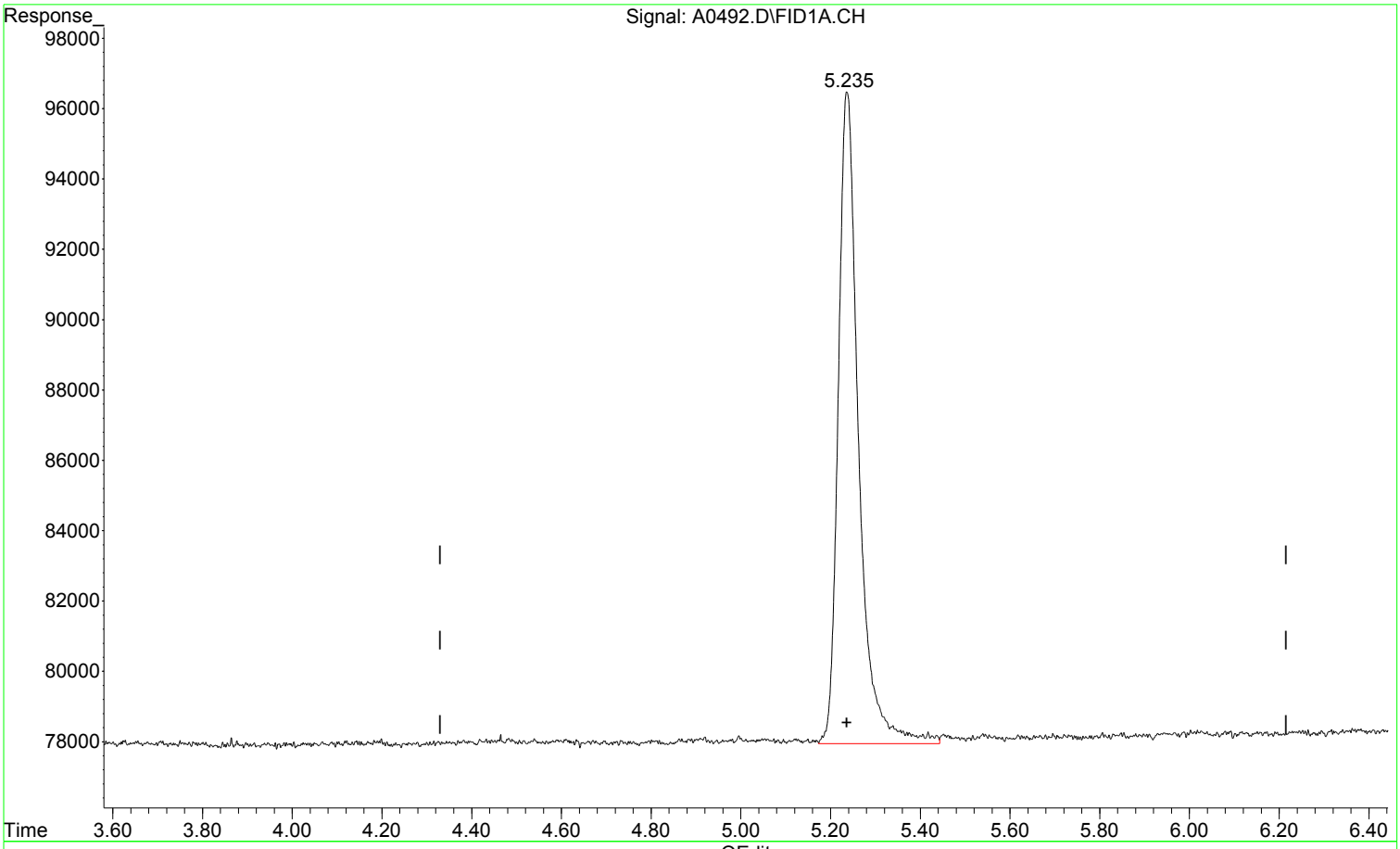
1st FJ 05/02/24
2nd AM 05/03/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0492.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:49 pm
Operator : F.NAEGLER
Sample : 10 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:58:10 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(5) Propane

5.235min 10.345 ug/L m

response 586565

Manual Integration:

After

Poor integration.

05/02/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.471	377393	6.147 ug/L
2)	Acetylene	2.226	204234	8.893 ug/L m
3)	Ethylene	2.420	167239	4.203 ug/L m
4)	Ethane	2.568	258223	4.795 ug/L m
5)	Propane	5.234	260025	4.586 ug/L m

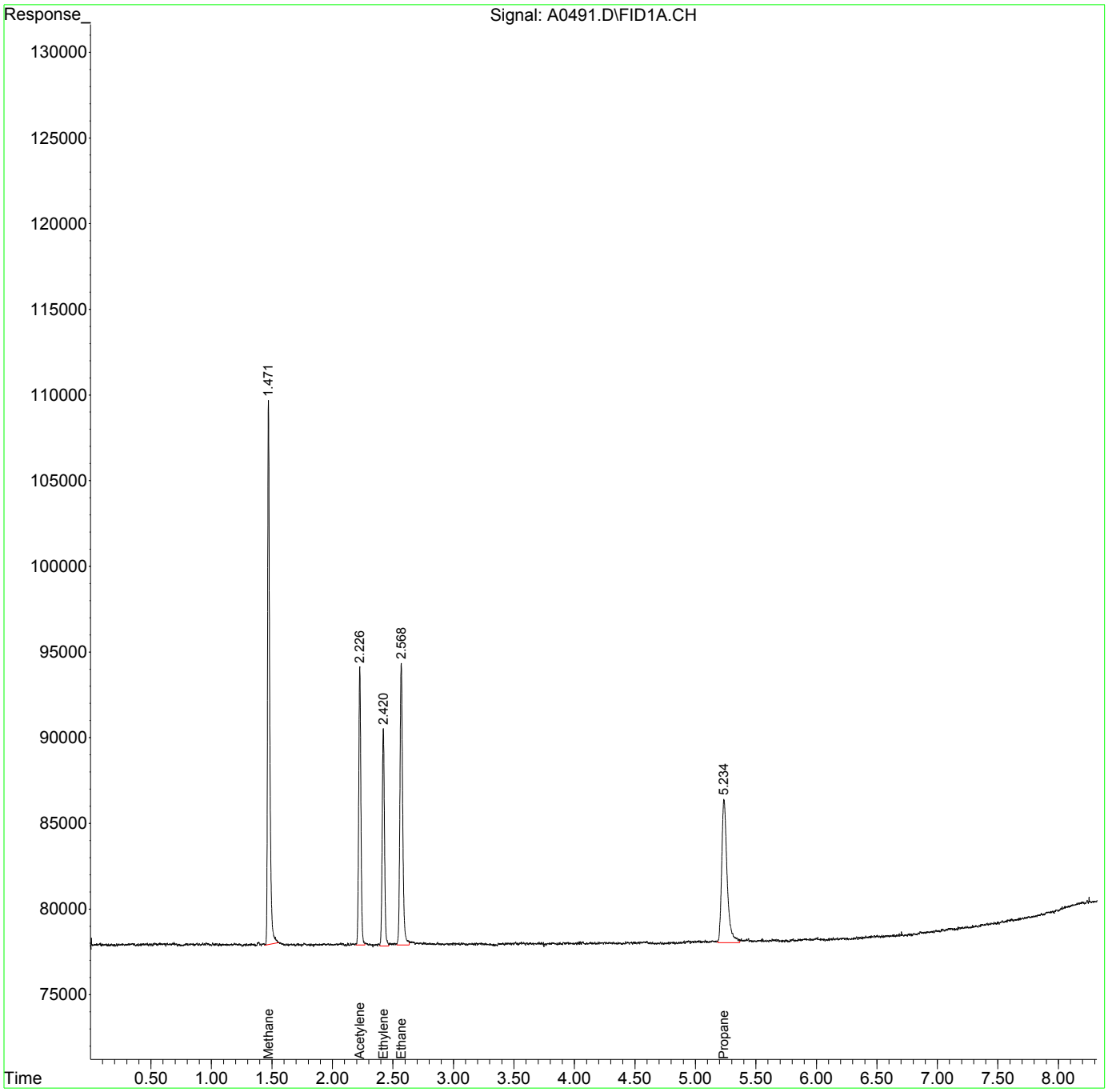
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

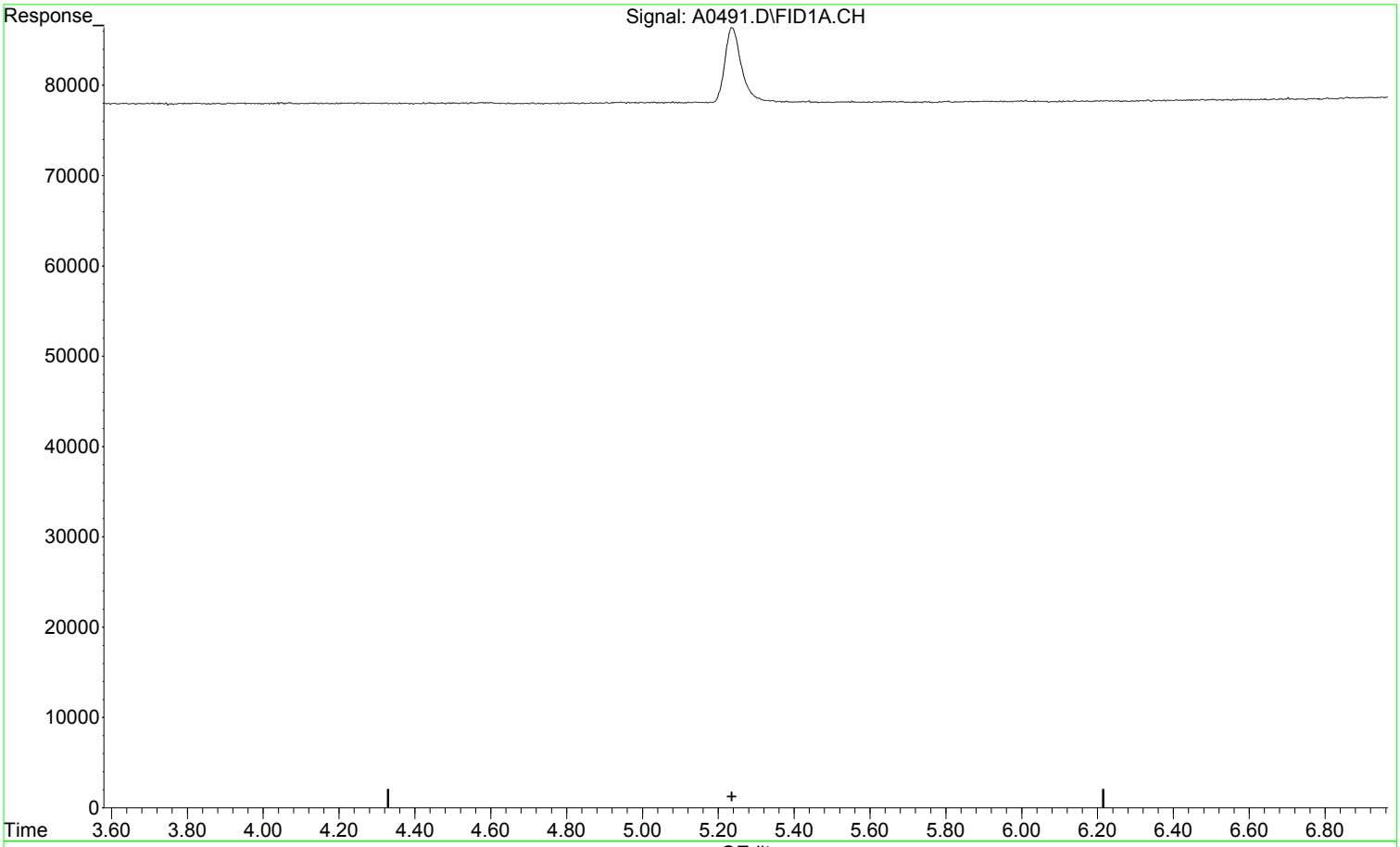


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(5) Propane

5.236min 0.000 ug/L

response 0

Manual Integration:

Before

05/02/24

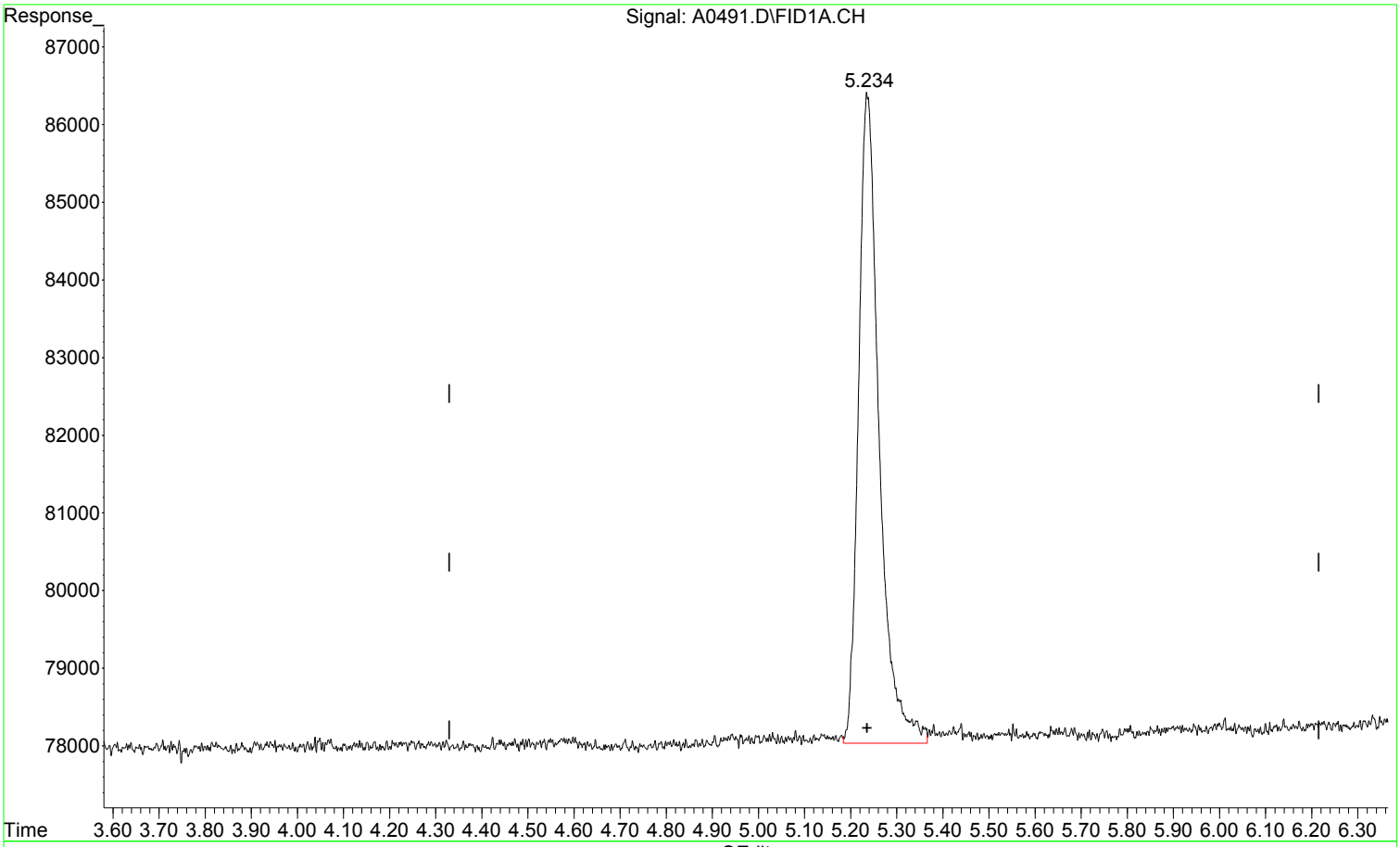
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(5) Propane
5.234min 4.586 ug/L m
response 260025

Manual Integration:
After
Peak not found.
05/02/24

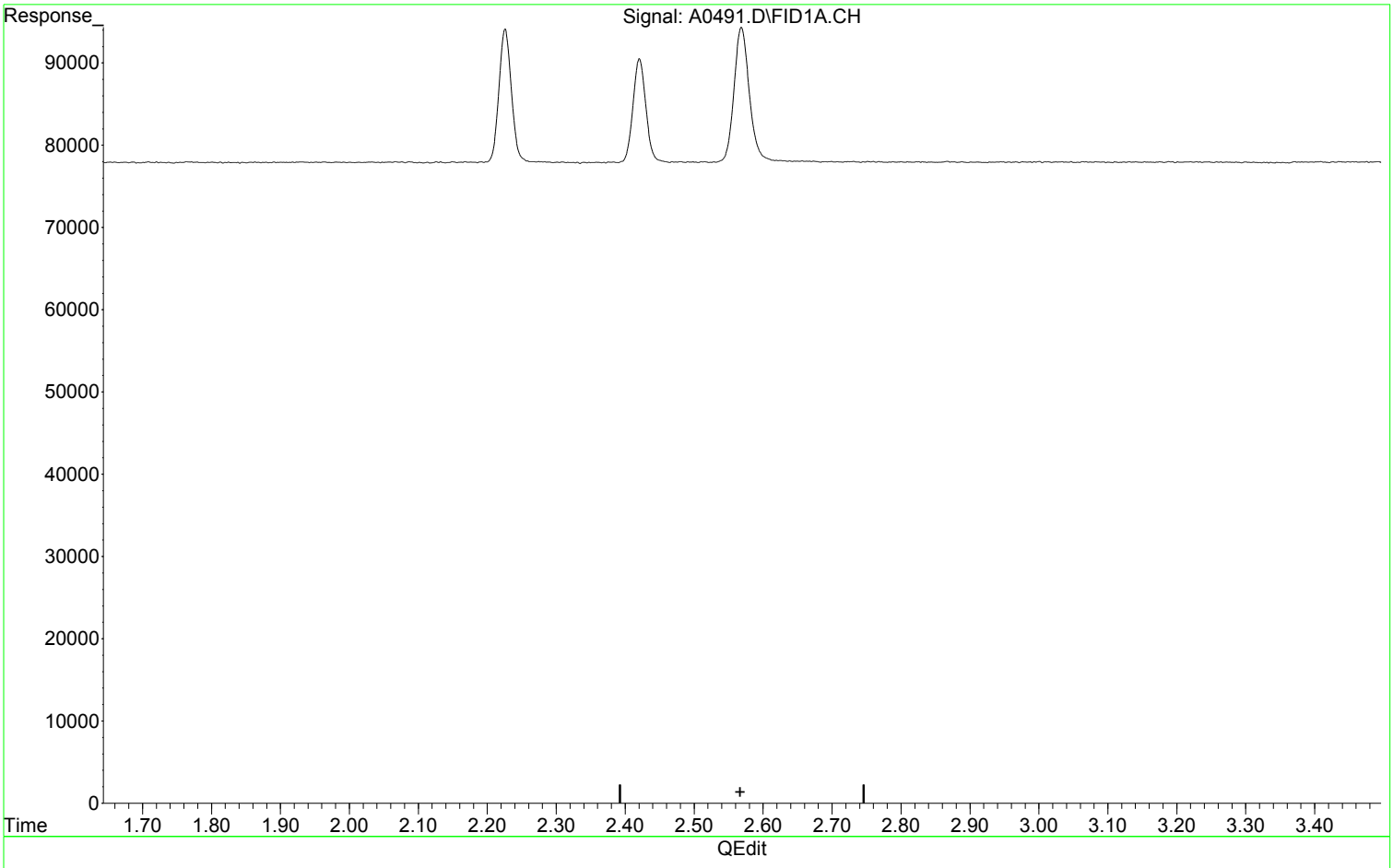
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.567min 0.000 ug/L
response 0

Manual Integration:
Before

05/02/24

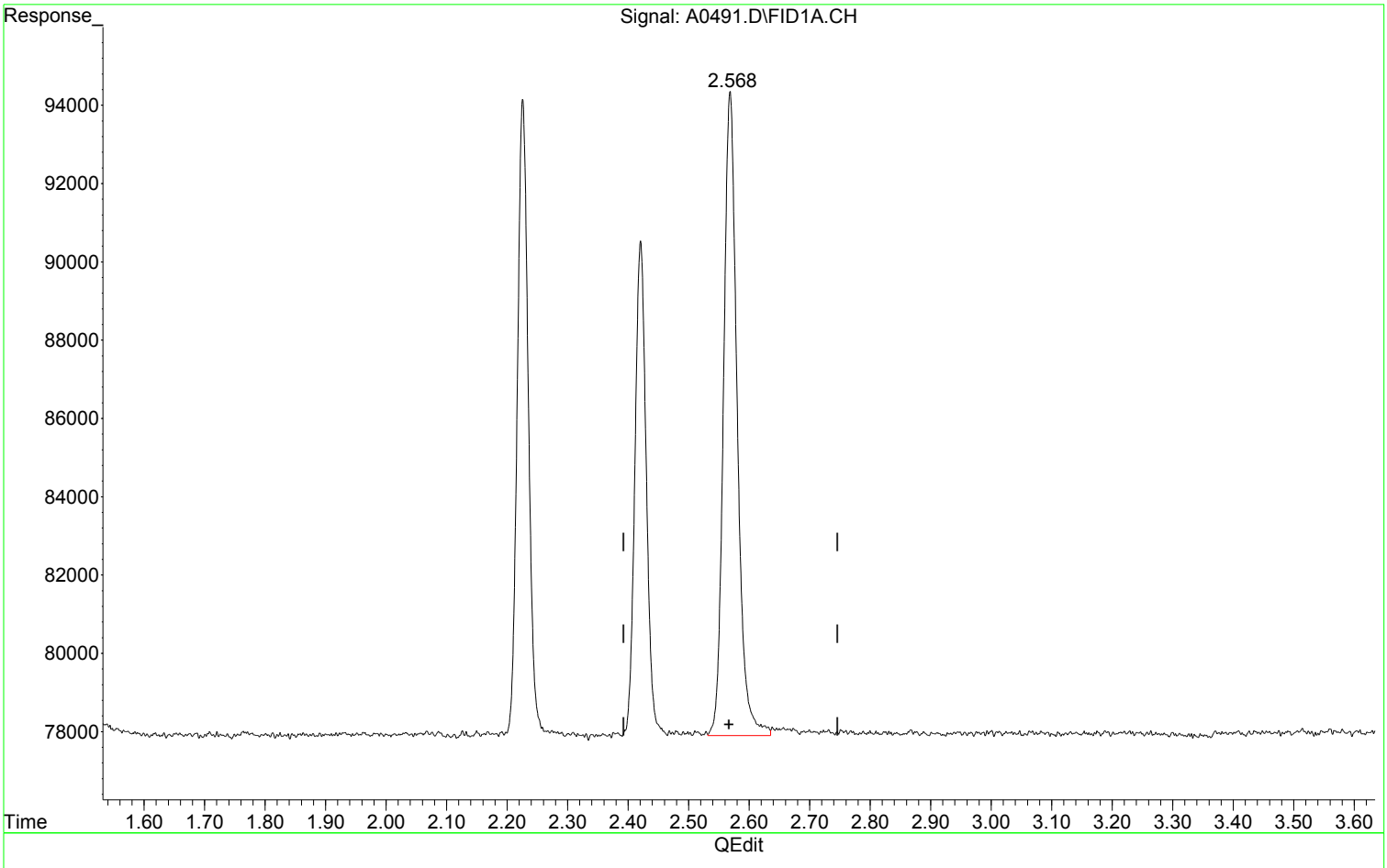
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane
2.568min 4.795 ug/L m
response 258223

Manual Integration:
After
Peak not found.
05/02/24

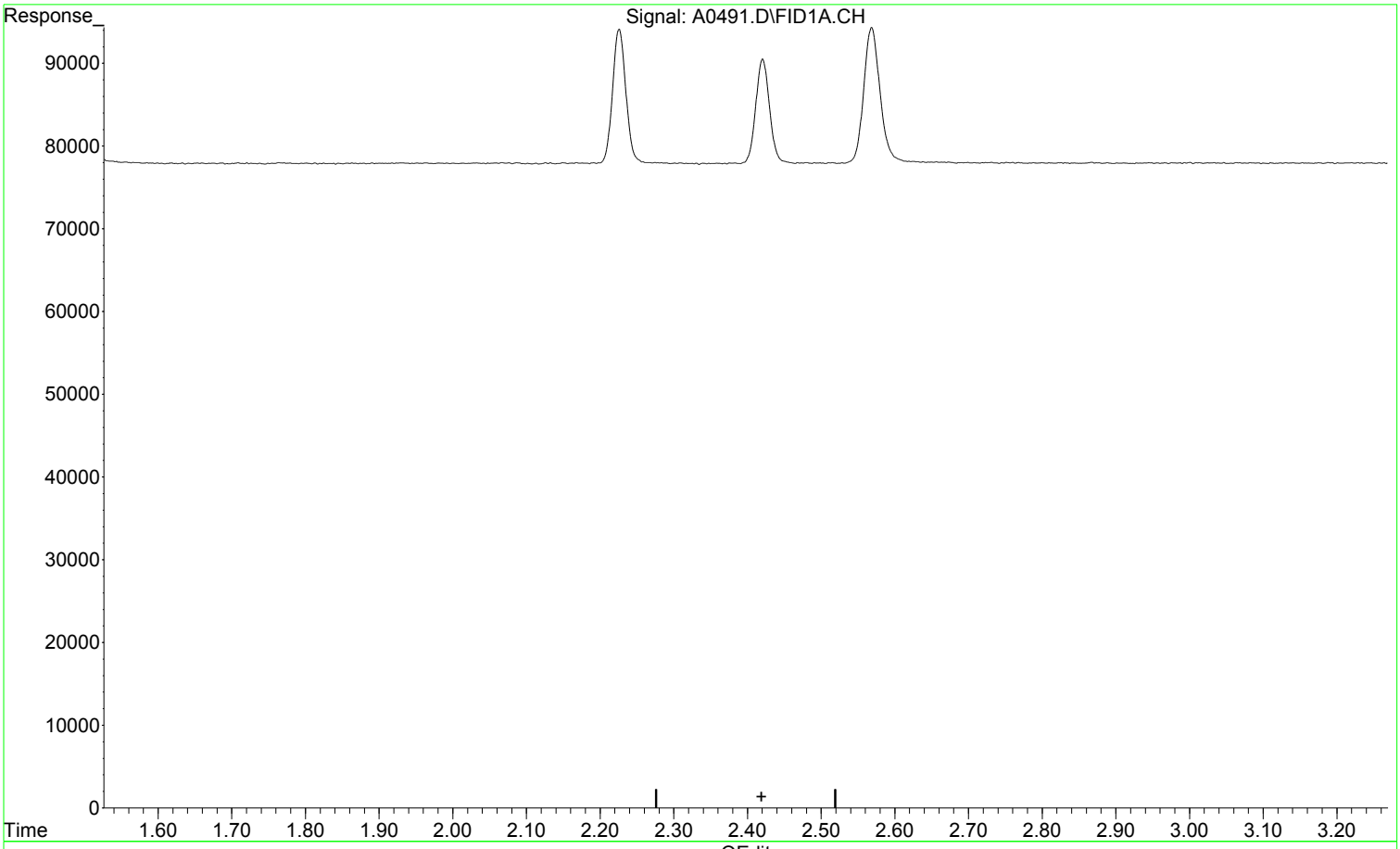
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(3) Ethylene
2.419min 0.000 ug/L
response 0

Manual Integration:
Before

05/02/24

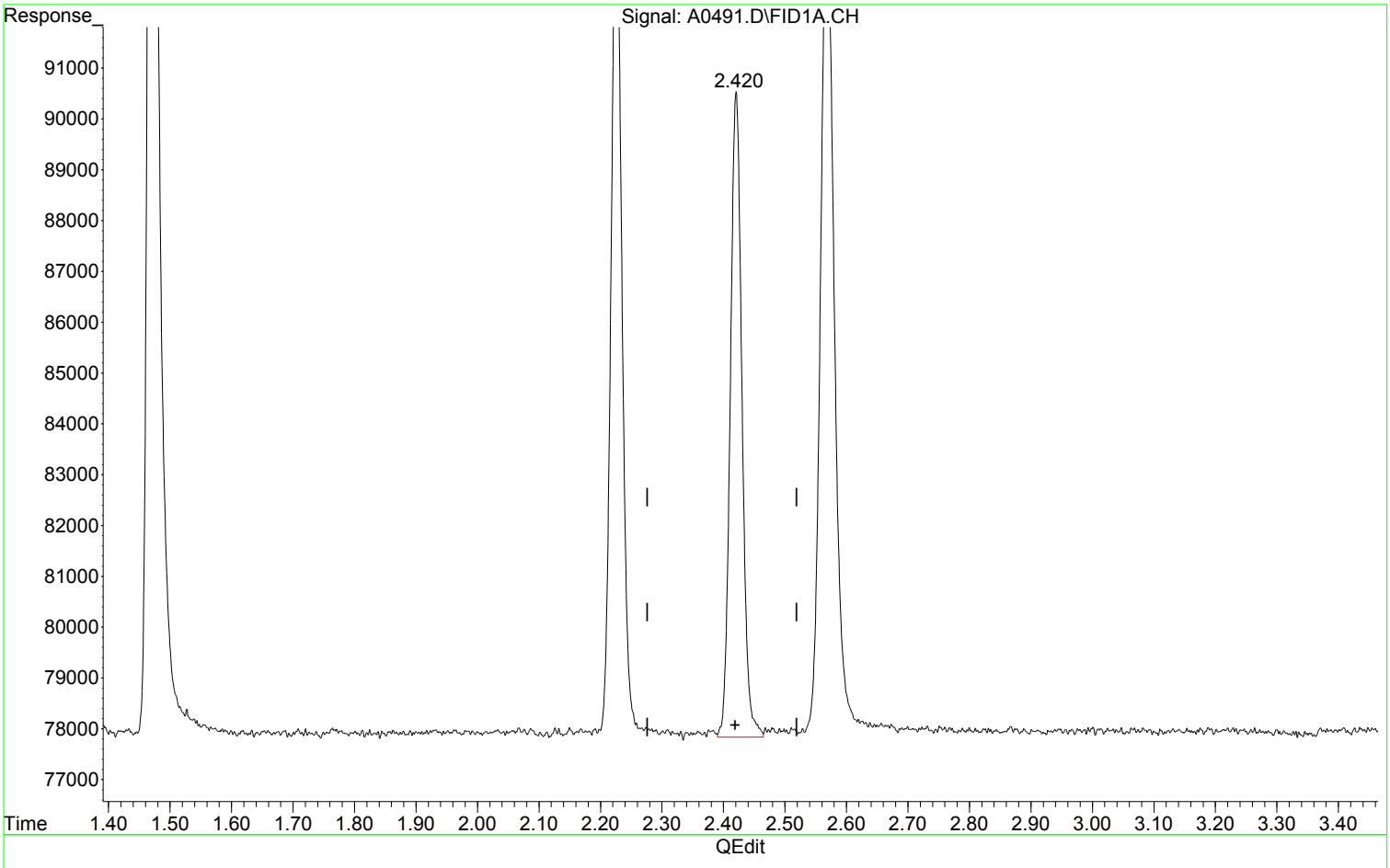
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(3) Ethylene
2.420min 4.203 ug/L m
response 167239

Manual Integration:
After
Peak not found.
05/02/24

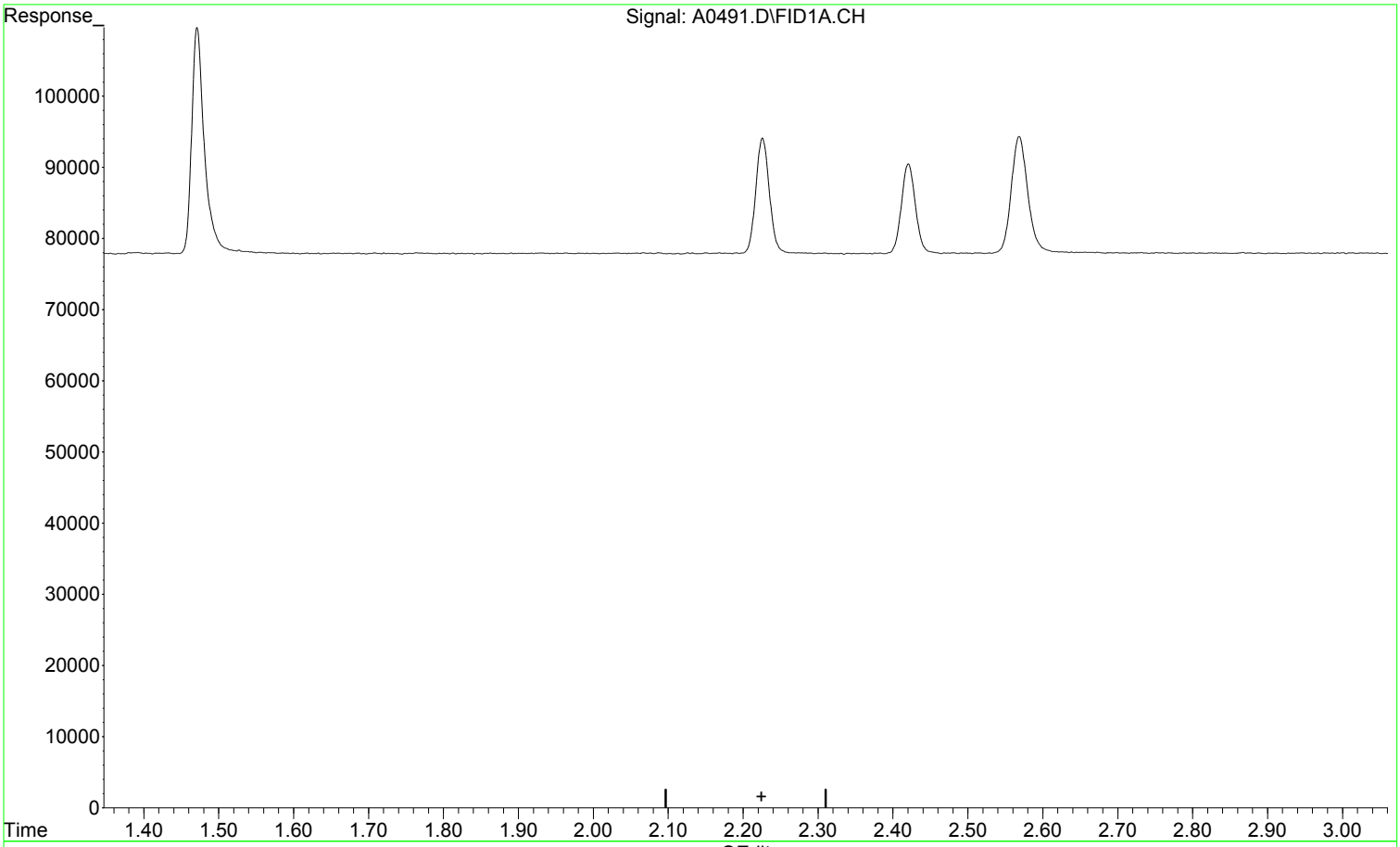
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(2) Acetylene
2.225min 0.000 ug/L
response 0

Manual Integration:
Before

05/02/24

(+) = Expected Retention Time

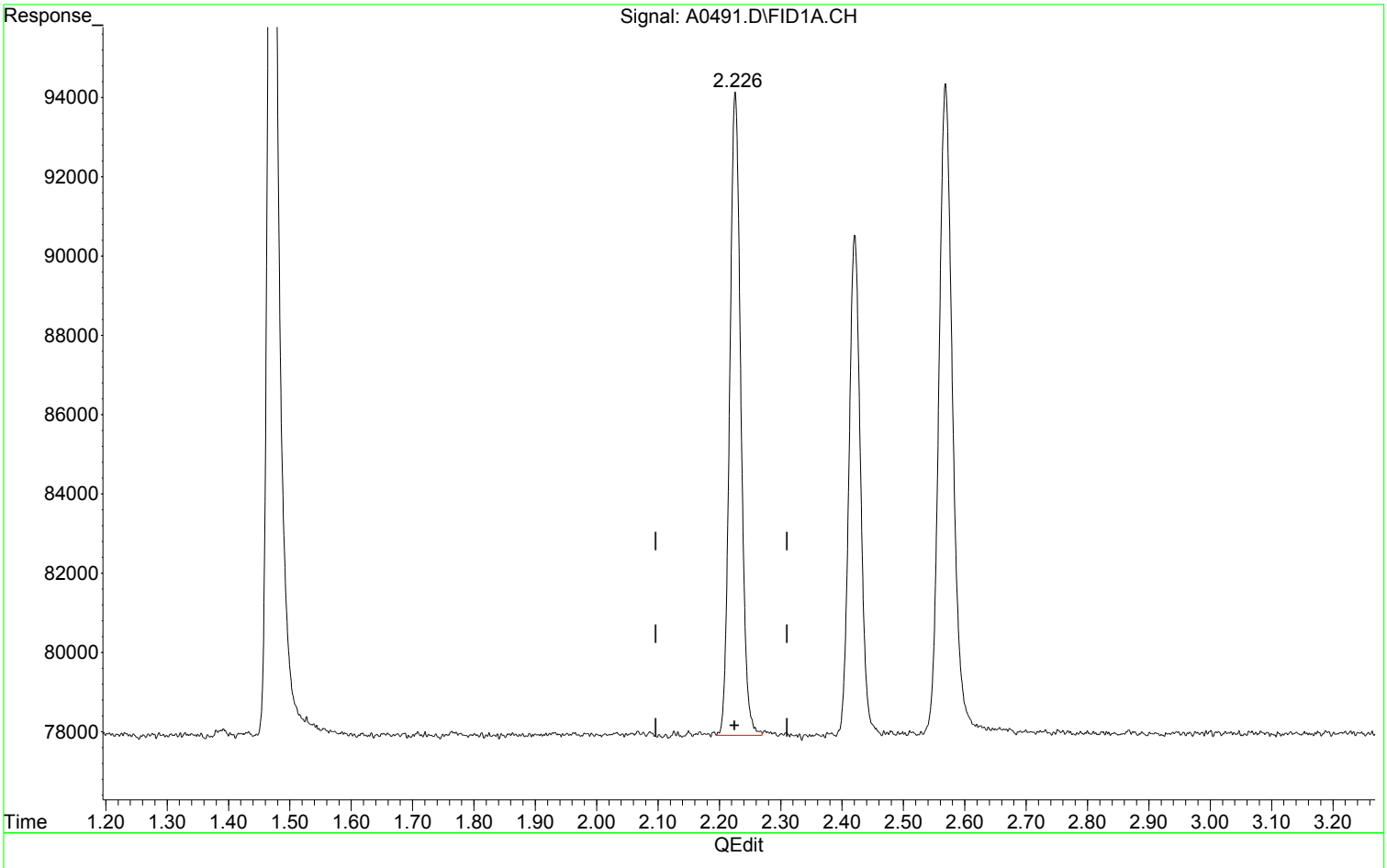
1st FJ 05/02/24
2nd AM 05/03/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0491.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:37 pm
Operator : F.NAEGLER
Sample : 5 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 14:46:04 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Wed May 01 13:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(2) Acetylene
2.226min 8.893 ug/L m
response 204234

Manual Integration:
After
Peak not found.
05/02/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	1.481	296341	4.971 ug/L m
2)	Acetylene	0.000	0	N.D. ug/L
3)	Ethylene	0.000	0	N.D. ug/L
4)	Ethane	2.575	26859	0.496 ug/L m
5)	Propane	0.000	0	N.D. ug/L

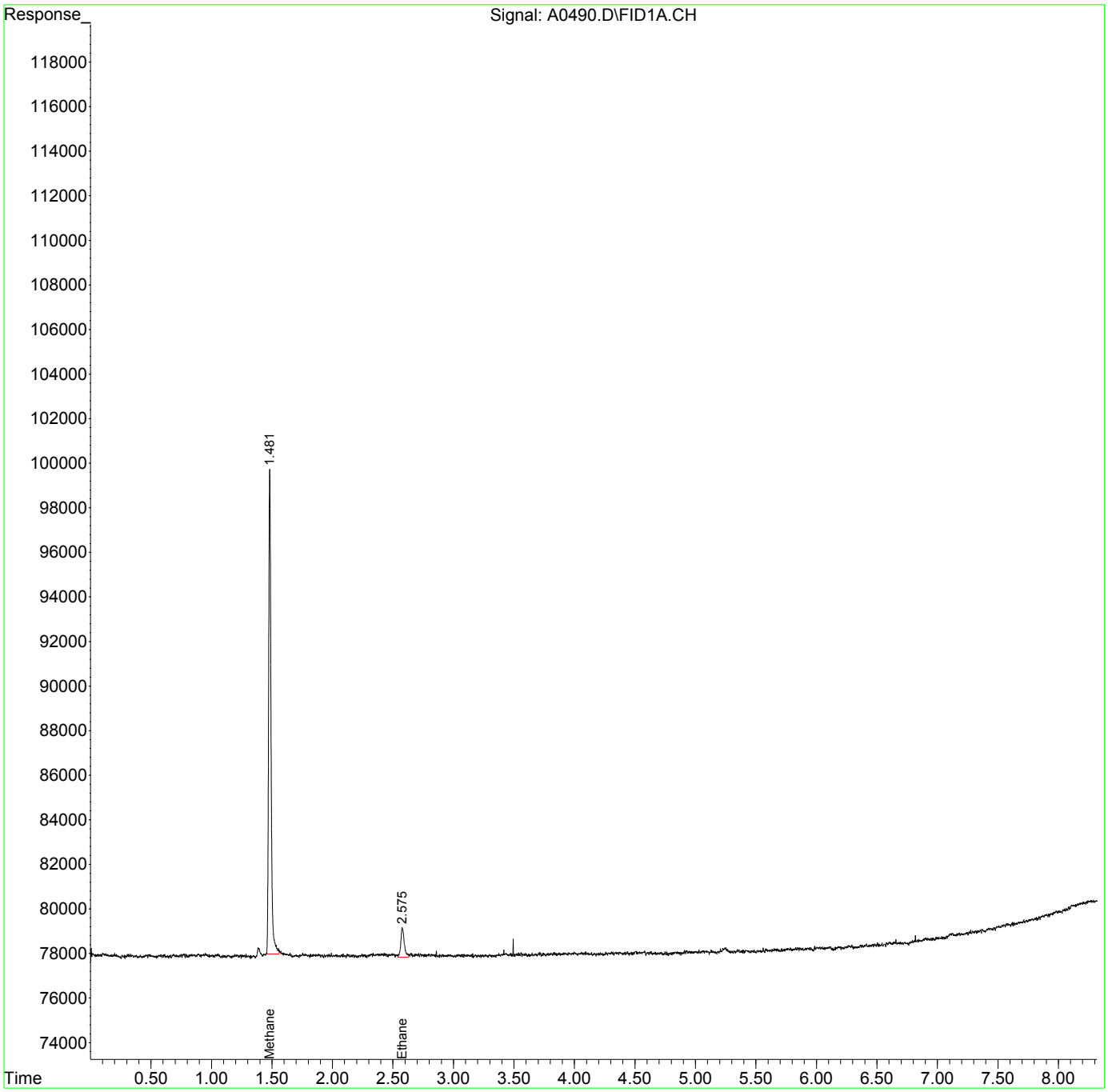
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

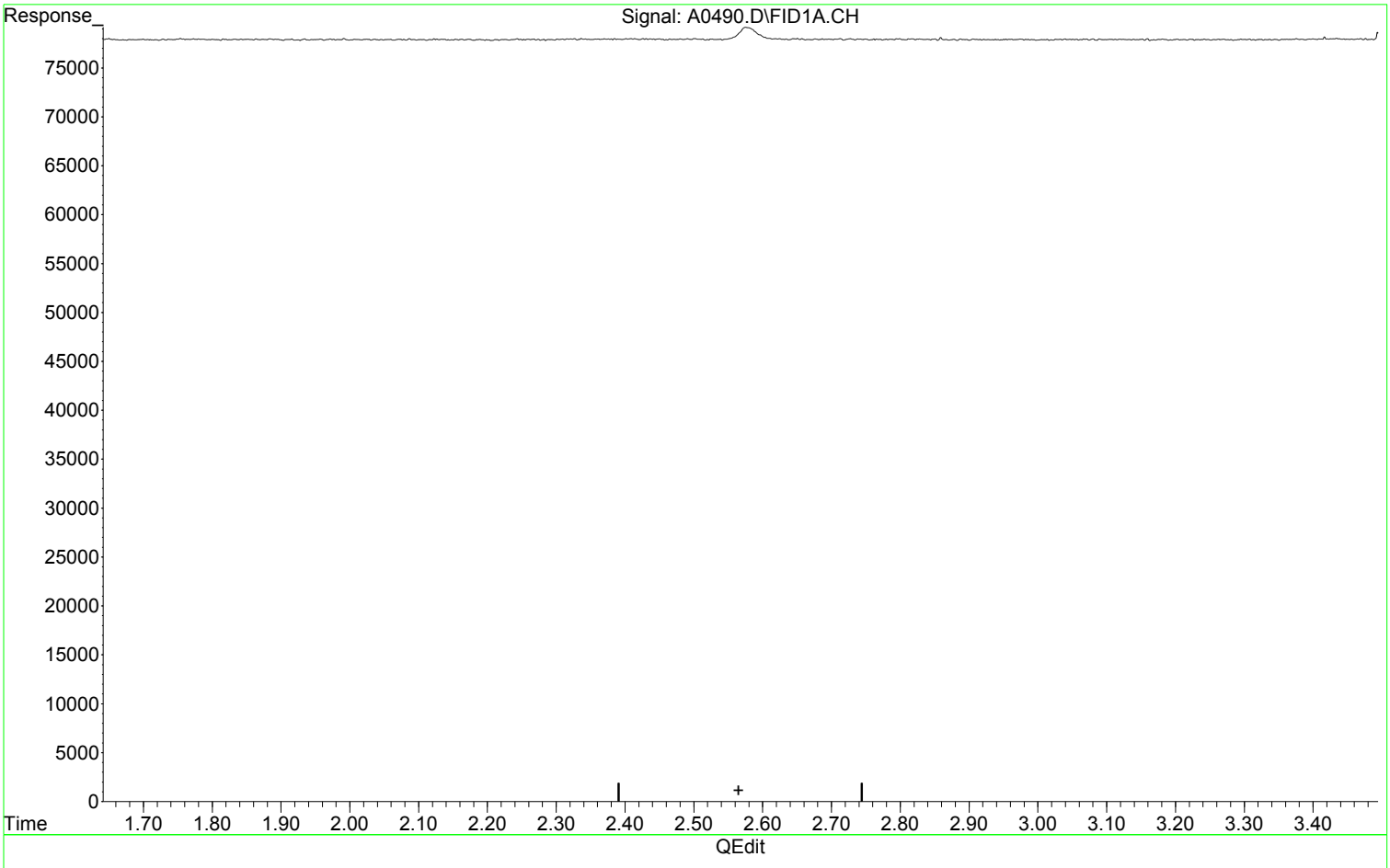


Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane

2.565min 0.000 ug/L

response 0

Manual Integration:

Before

05/02/24

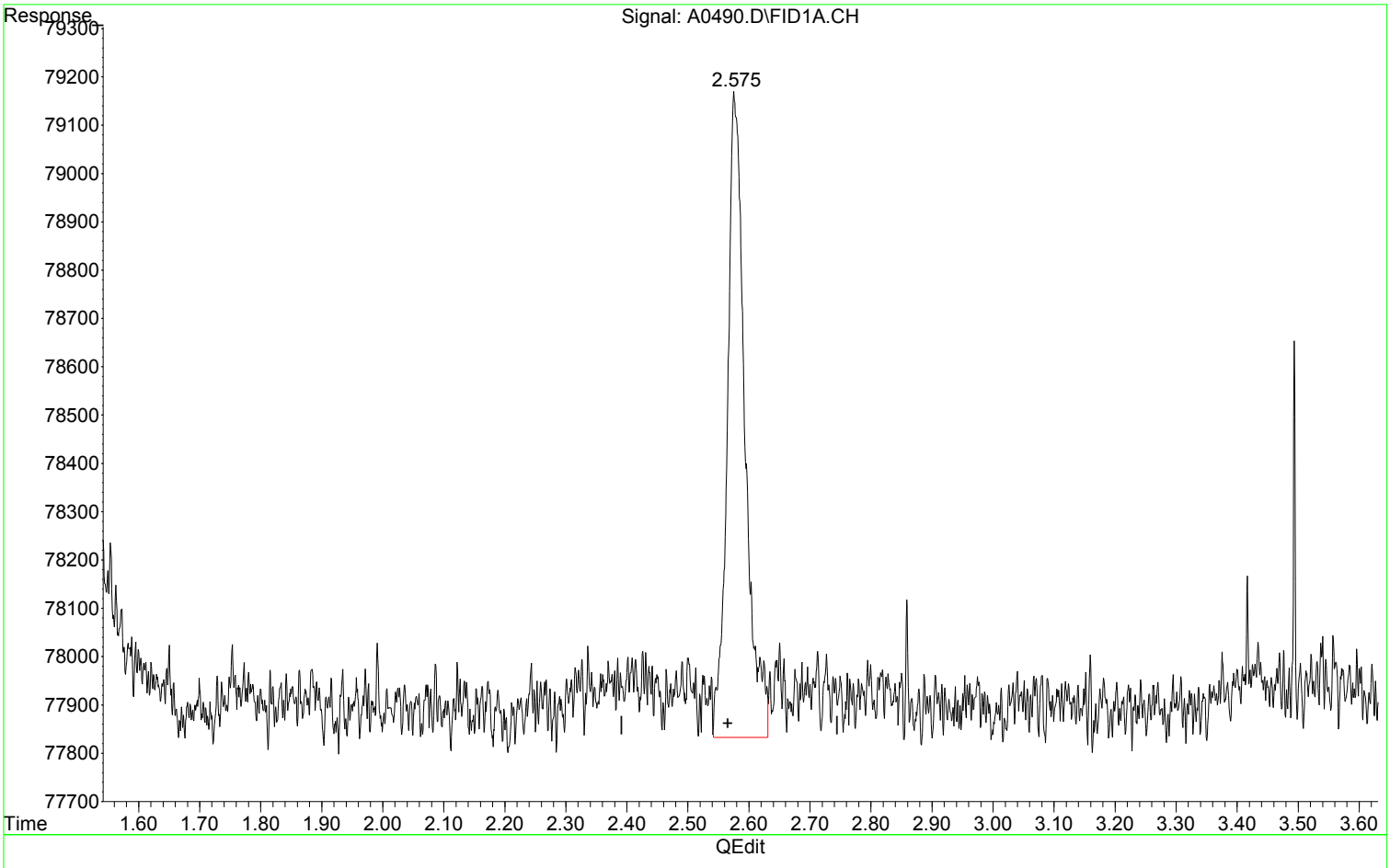
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(4) Ethane

2.575min 0.496 ug/L m

response 26859

Manual Integration:

After

Peak not found.

05/02/24

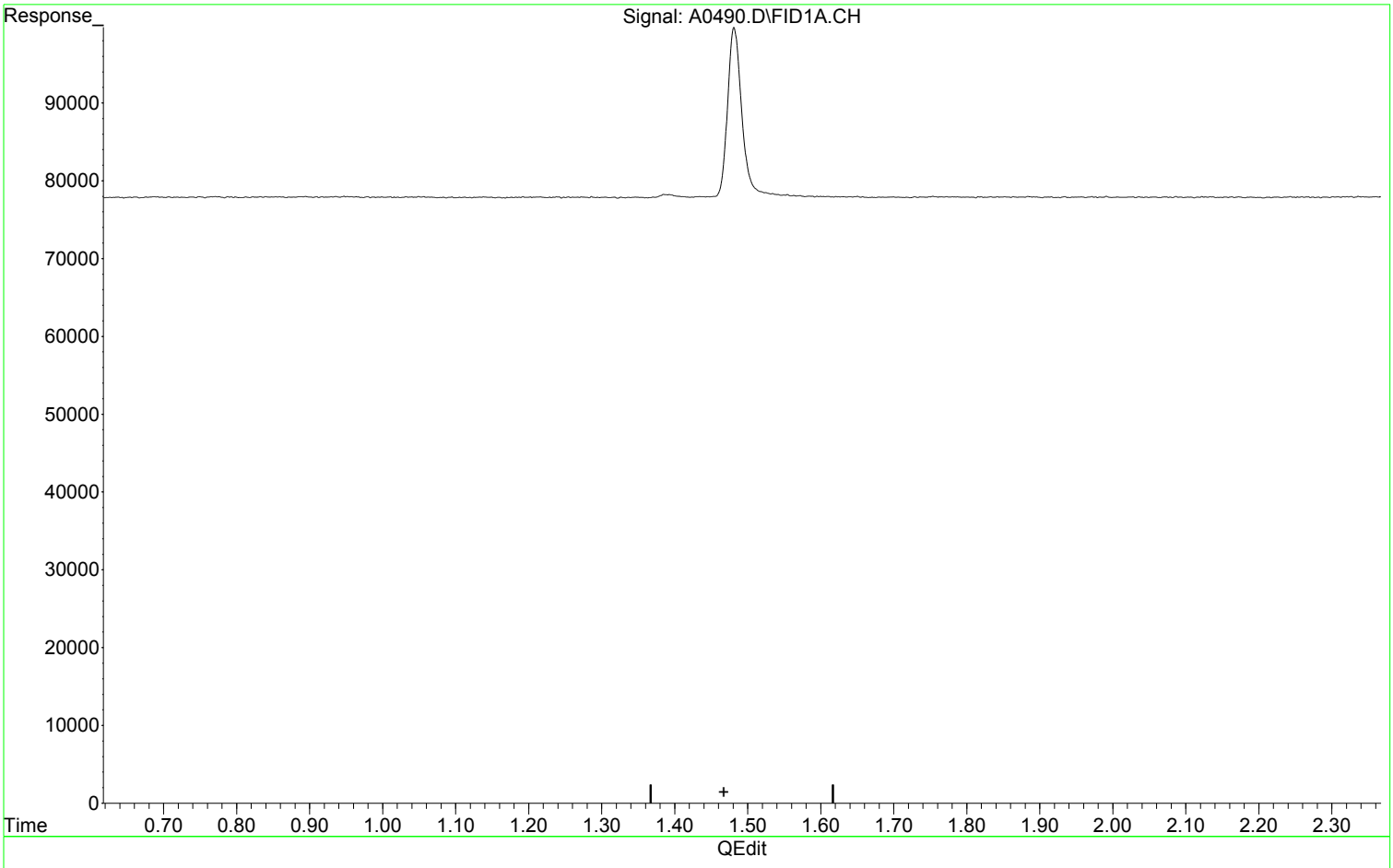
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.467min 0.000 ug/L

response 0

Manual Integration:

Before

05/02/24

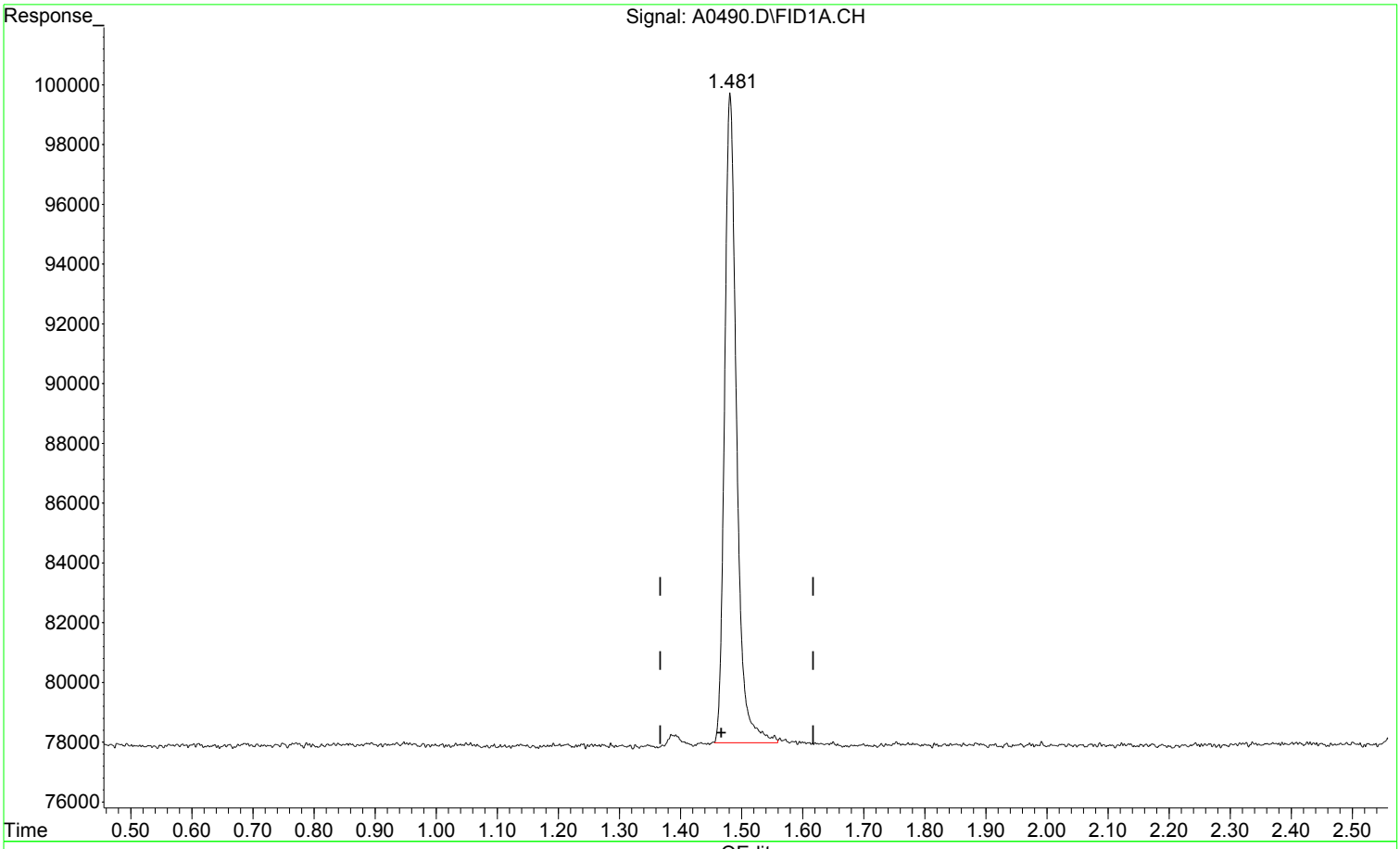
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\GC-70\DATA\050224\
Data File : A0490.D
Signal(s) : FID1A.CH
Acq On : 02 May 2024 2:25 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS.E
Quant Time: May 02 16:03:03 2024
Quant Method : I:\ACQUDATA\GC-70\METHODS\RSK050224.M
Quant Title :
QLast Update : Thu May 02 15:59:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



(1) Methane

1.481min 4.971 ug/L m

response 296341

Manual Integration:

After

Peak not found.

05/02/24

(+) = Expected Retention Time

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408140
Project: Olean OU3 12-Month Sampling **Calibration Date:** 5/2/2024

Initial Calibration Summary
Dissolved Gases by GC/FID

Calibration ID: RC2400082 **Signal ID:** 1
Instrument ID: R-GC-70

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC2400082-01	5 PPB STD	I:\ACQUDATA\GC-70\DATA\050224\A0491.D	05/02/2024 14:37
02	RC2400082-02	10 PPB STD	I:\ACQUDATA\GC-70\DATA\050224\A0492.D	05/02/2024 14:49
03	RC2400082-03	50 PPB STD	I:\ACQUDATA\GC-70\DATA\050224\A0493.D	05/02/2024 15:00
04	RC2400082-04	100 PPB STD	I:\ACQUDATA\GC-70\DATA\050224\A0494.D	05/02/2024 15:12
05	RC2400082-05	250 PPB STD	I:\ACQUDATA\GC-70\DATA\050224\A0495.D	05/02/2024 15:25
06	RC2400082-06	375 PPB STD	I:\ACQUDATA\GC-70\DATA\050224\A0496.D	05/02/2024 15:37
07	RC2400082-07	500 PPB STD	I:\ACQUDATA\GC-70\DATA\050224\A0497.D	05/02/2024 15:49

Analyte

Ethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.200	4.966E4	02	10.400	5.408E4	03	52.100	5.984E4	04	104.100	5.111E4
05	260.300	5.4E4	06	390.500	5.572E4	07	520.700	5.433E4			

Ethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	4.900	3.413E4	02	9.700	3.86E4	03	48.600	4.779E4	04	97.100	3.804E4
05	242.800	4.372E4	06	364.300	4.439E4	07	485.700	4.276E4			

Methane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.200	7.258E4	02	10.500	6.924E4	03	52.500	6.124E4	04	104.900	5.165E4
05	262.300	5.334E4	06	393.500	5.562E4	07	524.600	5.365E4			

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408140
Project: Olean OU3 12-Month Sampling **Calibration Date:** 5/2/2024

Initial Calibration Summary
Dissolved Gases by GC/FID

Calibration ID: RC2400082 **Signal ID:** 1
Instrument ID: R-GC-70

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Ethane	TRG	Average RF	% RSD	6.1	≤20	5.41E4	
Ethene	TRG	Average RF	% RSD	11.2	≤20	4.135E4	
Methane	TRG	Average RF	% RSD	14.0	≤20	5.961E4	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408140
Project: Olean OU3 12-Month Sampling **Calibration Date:** 5/2/2024

Initial Calibration Verification Summary
Dissolved Gases by GC/FID

Calibration ID: RC2400082 **Signal ID:** 1
Instrument ID: R-GC-70

#	Lab Code	Sample Name	File Location	Acquisition Date
08	RC2400082-08	250 PPB ICV	I:\ACQUDATA\GC-70\DATA\050224\A0499.D	05/02/2024 16:17

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Ethane	260	267	5.41E4	5.56E4	2.76	±15	Average RF
Ethene	243	254	4.135E4	4.318E4	4.42	±15	Average RF
Methane	262	240	5.961E4	5.455E4	-8.499	±15	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	09/02/24 09:57

Continuing Calibration Verification (CCV) Summary
Dissolved Gases by GC/FID

Analysis Method:	RSK 175	**Calibration Date:**	5/2/2024
File ID:	I:\ACQUDATA\GC-70\DATA\090224\A0854.D\	**Calibration ID:**	RC2400082
Signal ID:	1	**Analysis Lot:**	852664
		Units:	ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Ethane	260	254	5.41E4	5.271E4	97.4	NA	85-115	Average RF
Ethene	243	228	4.135E4	3.886E4	94.0	NA	85-115	Average RF
Methane	262	234	5.961E4	5.312E4	89.1	NA	85-115	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	09/02/24 13:27

Continuing Calibration Verification (CCV) Summary
Dissolved Gases by GC/FID

Analysis Method:	RSK 175	**Calibration Date:**	5/2/2024
File ID:	I:\ACQUDATA\GC-70\DATA\090224\A0870.D\	**Calibration ID:**	RC2400082
Signal ID:	1	**Analysis Lot:**	852664
		Units:	ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Ethane	260	255	5.41E4	5.298E4	97.9	NA	85-115	Average RF
Ethene	243	238	4.135E4	4.055E4	98.1	NA	85-115	Average RF
Methane	262	234	5.961E4	5.321E4	89.2	NA	85-115	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	09/02/24 15:09

Continuing Calibration Verification (CCV) Summary
Dissolved Gases by GC/FID

Analysis Method:	RSK 175	**Calibration Date:**	5/2/2024
File ID:	I:\ACQUDATA\GC-70\DATA\090224\A0878.D\	**Calibration ID:**	RC2400082
Signal ID:	1	**Analysis Lot:**	852664
		Units:	ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Ethane	260	261	5.41E4	5.433E4	100	NA	85-115	Average RF
Ethene	243	248	4.135E4	4.217E4	102	NA	85-115	Average RF
Methane	262	240	5.961E4	5.454E4	91.5	NA	85-115	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	09/03/24 11:12

Continuing Calibration Verification (CCV) Summary
Dissolved Gases by GC/FID

Analysis Method:	RSK 175	**Calibration Date:**	5/2/2024
File ID:	I:\ACQUDATA\GC-70\DATA\090324\A0883.D\	**Calibration ID:**	RC2400082
Signal ID:	1	**Analysis Lot:**	852730
		Units:	ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Ethane	260	257	5.41E4	5.337E4	98.6	NA	85-115	Average RF
Ethene	243	256	4.135E4	4.355E4	105	NA	85-115	Average RF
Methane	262	225	5.961E4	5.125E4	86.0	NA	85-115	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	09/03/24 13:18

Continuing Calibration Verification (CCV) Summary
Dissolved Gases by GC/FID

Analysis Method:	RSK 175	**Calibration Date:**	5/2/2024
File ID:	I:\ACQUDATA\GC-70\DATA\090324\A0891.D\	**Calibration ID:**	RC2400082
Signal ID:	1	**Analysis Lot:**	852730
		Units:	ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Ethane	260	263	5.41E4	5.474E4	101	NA	85-115	Average RF
Ethene	243	265	4.135E4	4.519E4	109	NA	85-115	Average RF
Methane	262	230	5.961E4	5.23E4	87.7	NA	85-115	Average RF

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408140
Project: Olean OU3 12-Month Sampling/300-082

Analysis Run Log
Dissolved Gases by GC/FID

Analysis Method: RSK 175 **Analysis Lot:**852664
Instrument ID:R-GC-70

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\GC-70\DATA\090224\A0854.D\	Continuing Calibration Verification	RQ2410862-01	9/2/2024	09:57:00	
I:\ACQUDATA\GC-70\DATA\090224\A0855.D\	Method Blank	RQ2410862-02	9/2/2024	10:09:00	
I:\ACQUDATA\GC-70\DATA\090224\A0856.D\	Lab Control Sample	RQ2410862-03	9/2/2024	10:21:00	
I:\ACQUDATA\GC-70\DATA\090224\A0857.D\	ZZZZZZZ	ZZZZZZZ	9/2/2024	10:46:00	
I:\ACQUDATA\GC-70\DATA\090224\A0858.D\	ZZZZZZZ	ZZZZZZZ	9/2/2024	10:58:00	
I:\ACQUDATA\GC-70\DATA\090224\A0859.D\	ZZZZZZZ	ZZZZZZZ	9/2/2024	11:10:00	
I:\ACQUDATA\GC-70\DATA\090224\A0860.D\	ZZZZZZZ	ZZZZZZZ	9/2/2024	11:23:00	
I:\ACQUDATA\GC-70\DATA\090224\A0861.D\	ZZZZZZZ	ZZZZZZZ	9/2/2024	11:36:00	
I:\ACQUDATA\GC-70\DATA\090224\A0862.D\	ZZZZZZZ	ZZZZZZZ	9/2/2024	11:47:00	
I:\ACQUDATA\GC-70\DATA\090224\A0863.D\	ZZZZZZZ	ZZZZZZZ	9/2/2024	12:00:00	
I:\ACQUDATA\GC-70\DATA\090224\A0864.D\	ZZZZZZZ	ZZZZZZZ	9/2/2024	12:12:00	
I:\ACQUDATA\GC-70\DATA\090224\A0865.D\	ZZZZZZZ	ZZZZZZZ	9/2/2024	12:24:00	
I:\ACQUDATA\GC-70\DATA\090224\A0866.D\	ZZZZZZZ	ZZZZZZZ	9/2/2024	12:35:00	
I:\ACQUDATA\GC-70\DATA\090224\A0867.D\	ZZZZZZZ	ZZZZZZZ	9/2/2024	12:49:00	
I:\ACQUDATA\GC-70\DATA\090224\A0868.D\	ZZZZZZZ	ZZZZZZZ	9/2/2024	13:02:00	
I:\ACQUDATA\GC-70\DATA\090224\A0870.D\	Continuing Calibration Verification	RQ2410862-06	9/2/2024	13:27:00	
I:\ACQUDATA\GC-70\DATA\090224\A0871.D\	ZZZZZZZ	ZZZZZZZ	9/2/2024	13:41:00	
I:\ACQUDATA\GC-70\DATA\090224\A0872.D\	OLN-UA003-F009	R2408140-002	9/2/2024	13:54:00	
I:\ACQUDATA\GC-70\DATA\090224\A0873.D\	OLN-UA002-F009	R2408140-003	9/2/2024	14:07:00	
I:\ACQUDATA\GC-70\DATA\090224\A0874.D\	OLN-FB001-B009	R2408140-004	9/2/2024	14:19:00	
I:\ACQUDATA\GC-70\DATA\090224\A0875.D\	OLN-EB001-E009	R2408140-007	9/2/2024	14:30:00	
I:\ACQUDATA\GC-70\DATA\090224\A0876.D\	OLN-FB002-B009	R2408140-008	9/2/2024	14:43:00	
I:\ACQUDATA\GC-70\DATA\090224\A0877.D\	OLN-RU028-F009	R2408140-010	9/2/2024	14:55:00	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408140
Project: Olean OU3 12-Month Sampling/300-082

Analysis Run Log
Dissolved Gases by GC/FID

Analysis Method: RSK 175 **Analysis Lot:**852664
Instrument ID:R-GC-70

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\GC-70\DATA\090224 \A0878.D\	Continuing Calibration Verification	RQ2410862-07	9/2/2024	15:09:00	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408140
Project: Olean OU3 12-Month Sampling/300-082

Analysis Run Log
Dissolved Gases by GC/FID

Analysis Method: RSK 175 **Analysis Lot:**852730
Instrument ID:R-GC-70

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\GC-70\DATA\090324\A0883.D\	Continuing Calibration Verification	RQ2410893-01	9/3/2024	11:12:00	
I:\ACQUDATA\GC-70\DATA\090324\A0884.D\	Method Blank	RQ2410893-02	9/3/2024	11:25:00	
I:\ACQUDATA\GC-70\DATA\090324\A0885.D\	Lab Control Sample	RQ2410893-03	9/3/2024	11:36:00	
I:\ACQUDATA\GC-70\DATA\090324\A0886.D\	Duplicate Lab Control Sample	RQ2410893-04	9/3/2024	12:16:00	
I:\ACQUDATA\GC-70\DATA\090324\A0887.D\	OLN-RU020-F009	R2408140-011	9/3/2024	12:31:00	
I:\ACQUDATA\GC-70\DATA\090324\A0888.D\	OLN-RU021-F009	R2408140-012	9/3/2024	12:42:00	
I:\ACQUDATA\GC-70\DATA\090324\A0889.D\	OLN-FD002-D009	R2408140-013	9/3/2024	12:54:00	
I:\ACQUDATA\GC-70\DATA\090324\A0891.D\	Continuing Calibration Verification	RQ2410893-05	9/3/2024	13:18:00	

Analysis: RSK.175 | Analyst: F. Naglen | Run Method: RSK.M

Date: 9/2/24 | Data Path: J:\Acqudata\70 \Data\ 090224 | RSK 050224.M

Instr. GC-70 | LIMS Run#: 852664

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
	BLK								A0851	Y	
	BLK								52	Y	
	CCV								53	(N)	
	CCV								54	Y	
	MBLK								55	Y	
	LCS								56	Y	
	R2408139-001	1.0		—	979	4	1	<2	57	Y	
	-002	1.0		—			1	<2	58	Y	
	-003	1.0		—			1	<2	59	Y	
	-004	1.0		—			1	<2	60	Y	
	-005	1.0		—			1	<2	61	Y	
	-007	1.0		—			1	<2	62	Y	
	-008	1.0		—			1	<2	63	Y	
	-008MS	1.0		—			2	<2	64	Y	
	-008MSD	1.0		—			3	<2	65	Y	
	-010	20.0	5mL	—			1	<2	66	Y	
	-012	10.0	10mL	—			1	<2	67	(Y)	Rpt 1/20 DL
	-012	20.0	5mL	—			1	<2	68	Y	
	CCV								69	(N)	
	CCV								70	Y	
	R2408139-013	1.0		—	979	4	1	<2	71	Y	
	R2408140-002	1.0		—			1	<2	72	Y	
	-003	2.5	40mL	—			1	<2	73	Y	
	-004	1.0		—			1	<2	74	Y	
	-007	1.0		—			1	<2	75	Y	
	-008	1.0		—			1	<2	76	Y	
	-010	1.0		—			1	<2	77	Y	
	CCV								78	Y	
			FN	9/2/24							

All samples = _____mL + _____uL Surrogate _____mL purged

Primary : 234908 - 100mL/42.5mL (CCV)
Primary :
Primary :
Primary :

Secondary : 234909 - 5mL/42.5mL (LCS)
Secondary : _____ - 100mL/42.5mL (MS/MSD)
Secondary :
Secondary :

Surrogate — : —

Analysis: RSK.175 Analyst: F. Nuesle Run Method: RSK.M

Date: 9/3/24 Data Path: J:\Acqudata\70 \Data\090324 RSK050224.M

Instr. GC-70 LIMS Run#: 852730

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
	BLK								A0879	Y	
	BLK								80	Y	
	CCV								81	(N)	
	CCV								82	(N)	Try new vial
	CCV								83	Y	
	MBLK								84	Y	
	LCS								85	Y	
	LCSD								86	Y	
	R2408140-011	10.0	10mL	—	979	4	1	<2	87	Y	
	-012	20.0	5mL	—	↓	↓	1	<2	88	Y	
	↓ -013	20.0	↓	—	↓	↓	1	<2	89	Y	
	CCV								90	(N)	
	CCV								↓ 91	Y	

FN 9/3/24

All samples = _____mL + _____uL Surrogate _____mL purged

Primary : 234908-100mL/42.5mL (CCV)
Primary : _____
Primary : _____
Primary : _____

Secondary : 234909-50uL/42.5mL (LCS)
(LCSD)
Secondary : _____
Secondary : _____
Secondary : _____

Surrogate — : —

Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 13:37
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-UA003-F009	**Units:**	mg/L
Lab Code:	R2408140-002	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0	U	1.0	0.56	1	09/05/24 06:34	
Butanoic Acid (Butyric Acid)	10	U	10	5.0	1	09/05/24 06:34	
Propionic Acid	2.0	U	2.0	1.1	1	09/05/24 06:34	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 15:25
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-UA002-F009	**Units:**	mg/L
Lab Code:	R2408140-003	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	09/05/24 07:06	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	09/05/24 07:06	
Propionic Acid	2.0 U	2.0	1.1	1	09/05/24 07:06	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 16:25
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FB001-B009	**Units:**	mg/L
Lab Code:	R2408140-004	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	09/05/24 07:37	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	09/05/24 07:37	
Propionic Acid	2.0 U	2.0	1.1	1	09/05/24 07:37	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 10:15
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-EB001-E009	**Units:**	mg/L
Lab Code:	R2408140-007	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0 U	1.0	0.56	1	09/05/24 08:09	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	09/05/24 08:09	
Propionic Acid	2.0 U	2.0	1.1	1	09/05/24 08:09	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 10:35
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FB002-B009	**Units:**	mg/L
Lab Code:	R2408140-008	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	1.0	U	1.0	0.56	1	09/05/24 08:41	
Butanoic Acid (Butyric Acid)	10	U	10	5.0	1	09/05/24 08:41	
Propionic Acid	2.0	U	2.0	1.1	1	09/05/24 08:41	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 13:06
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU028-F009	**Units:**	mg/L
Lab Code:	R2408140-010	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**230**	1.0	0.56	1	09/05/24 09:45	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	09/05/24 09:45	
Propionic Acid	**40**	2.0	1.1	1	09/05/24 09:45	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 15:47
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU020-F009	**Units:**	mg/L
Lab Code:	R2408140-011	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**0.66**	**J**	1.0	0.56	1	09/05/24 10:16	
Butanoic Acid (Butyric Acid)	10	U	10	5.0	1	09/05/24 10:16	
Propionic Acid	2.0	U	2.0	1.1	1	09/05/24 10:16	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 08:31
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU021-F009	**Units:**	mg/L
Lab Code:	R2408140-012	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**7.1**	1.0	0.56	1	09/05/24 10:48	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	09/05/24 10:48	
Propionic Acid	**10**	2.0	1.1	1	09/05/24 10:48	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 22:00
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FD002-D009	**Units:**	mg/L
Lab Code:	R2408140-013	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetic Acid	**7.4**	1.0	0.56	1	09/05/24 11:20	
Butanoic Acid (Butyric Acid)	10 U	10	5.0	1	09/05/24 11:20	
Propionic Acid	**9.3**	2.0	1.1	1	09/05/24 11:20	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000219.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 06:34:29
Operator : AFelser
Sample : R2408140-002
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:08 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) t	Formic acid	0.000	0	N.D.	ppm
2) T	Pyruvic acid	0.000	0	N.D.	ppm
3) T	Lactic Acid	0.000	0	N.D.	ppm
4) T	Acetic Acid	0.000	0	N.D.	ppm
5) T	Propionic Acid	0.000	0	N.D.	ppm
6) T	Butyric Acid	0.000	0	N.D.	ppm

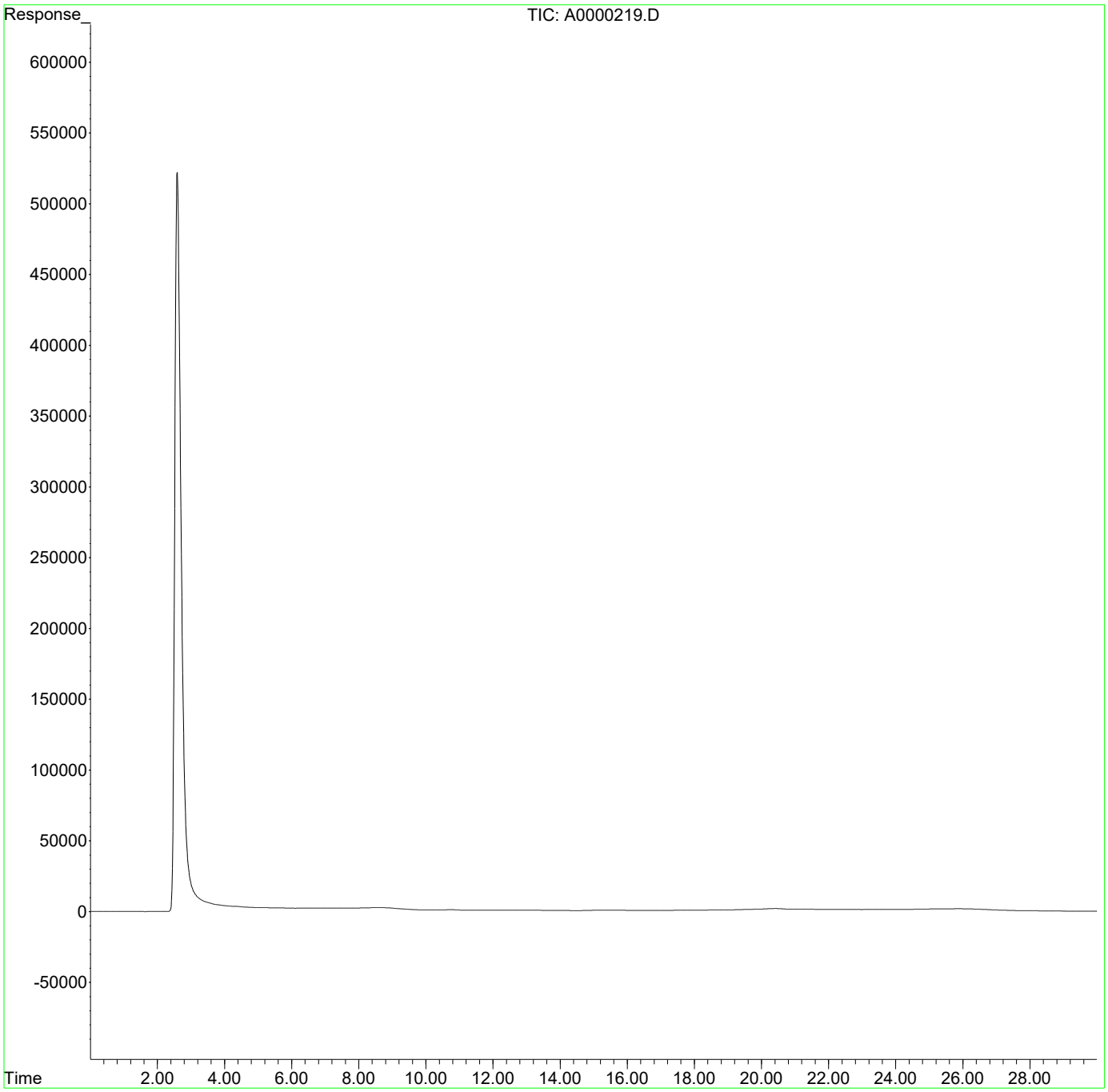
(f)=RT Delta > 1/2 Window (m)=manual int.

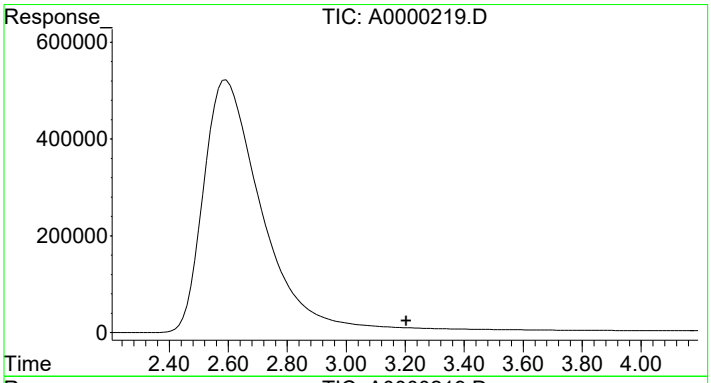
1st AF 09/09/24
2nd AM 09/09/24

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000219.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 06:34:29
Operator : AFelser
Sample : R2408140-002
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:08 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

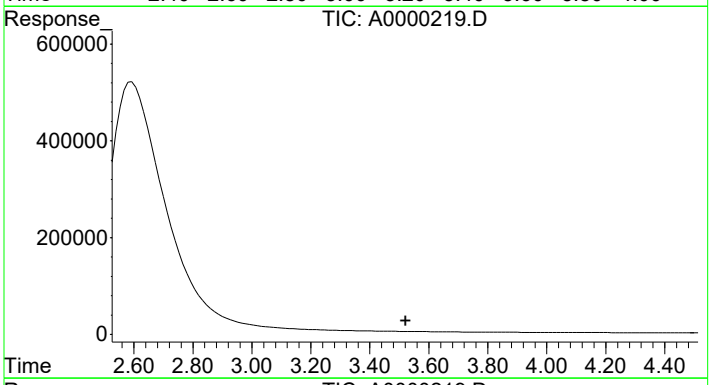
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





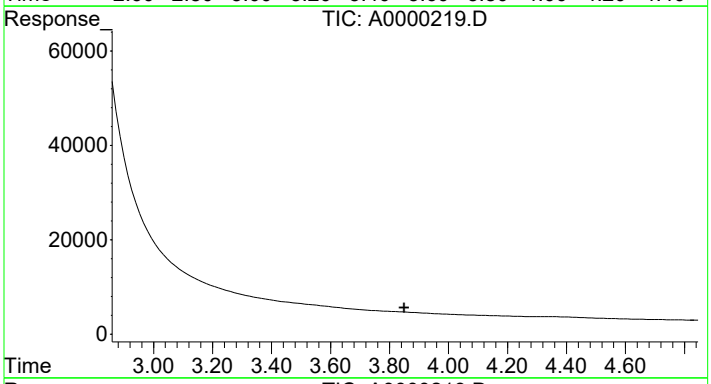
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.204 min
Response: 0
Conc: N.D.



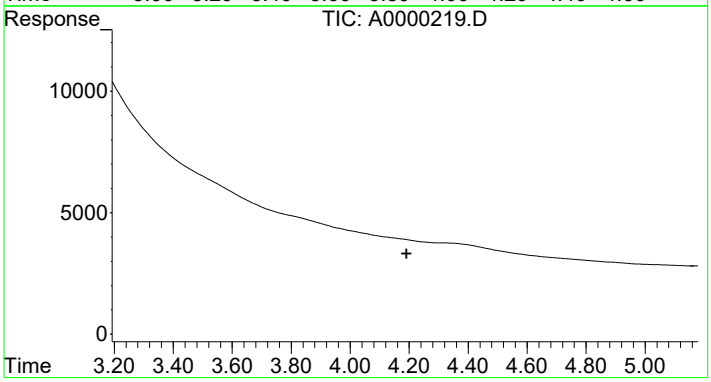
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.521 min
Response: 0
Conc: N.D.



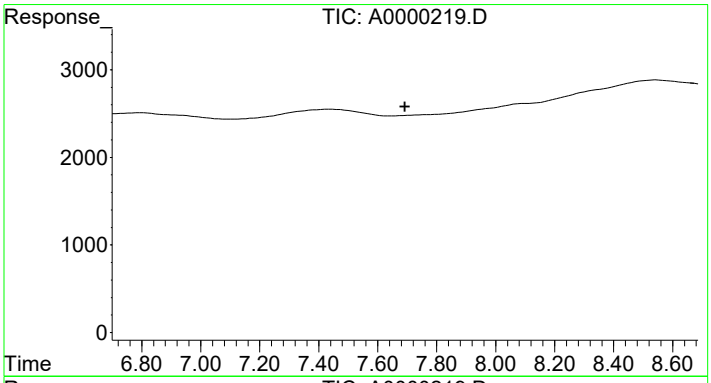
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.851 min
Response: 0
Conc: N.D.



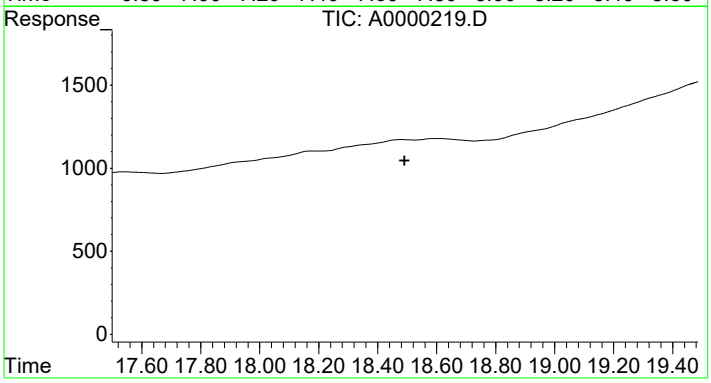
#4 Acetic Acid

R.T.: 0.000 min
Exp R.T. : 4.192 min
Response: 0
Conc: N.D.



#5 Propionic Acid

R.T.: 0.000 min
Exp R.T. : 7.693 min
Response: 0
Conc: N.D.



#6 Butyric Acid

R.T.: 0.000 min
Exp R.T. : 18.491 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000220.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 07:06:13
Operator : AFelser
Sample : R2408140-003
Misc :
ALS Vial : 27 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:10 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	d
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	0.000	0	N.D.	ppm	
5) T	Propionic Acid	0.000	0	N.D.	ppm	
6) T	Butyric Acid	0.000	0	N.D.	ppm	

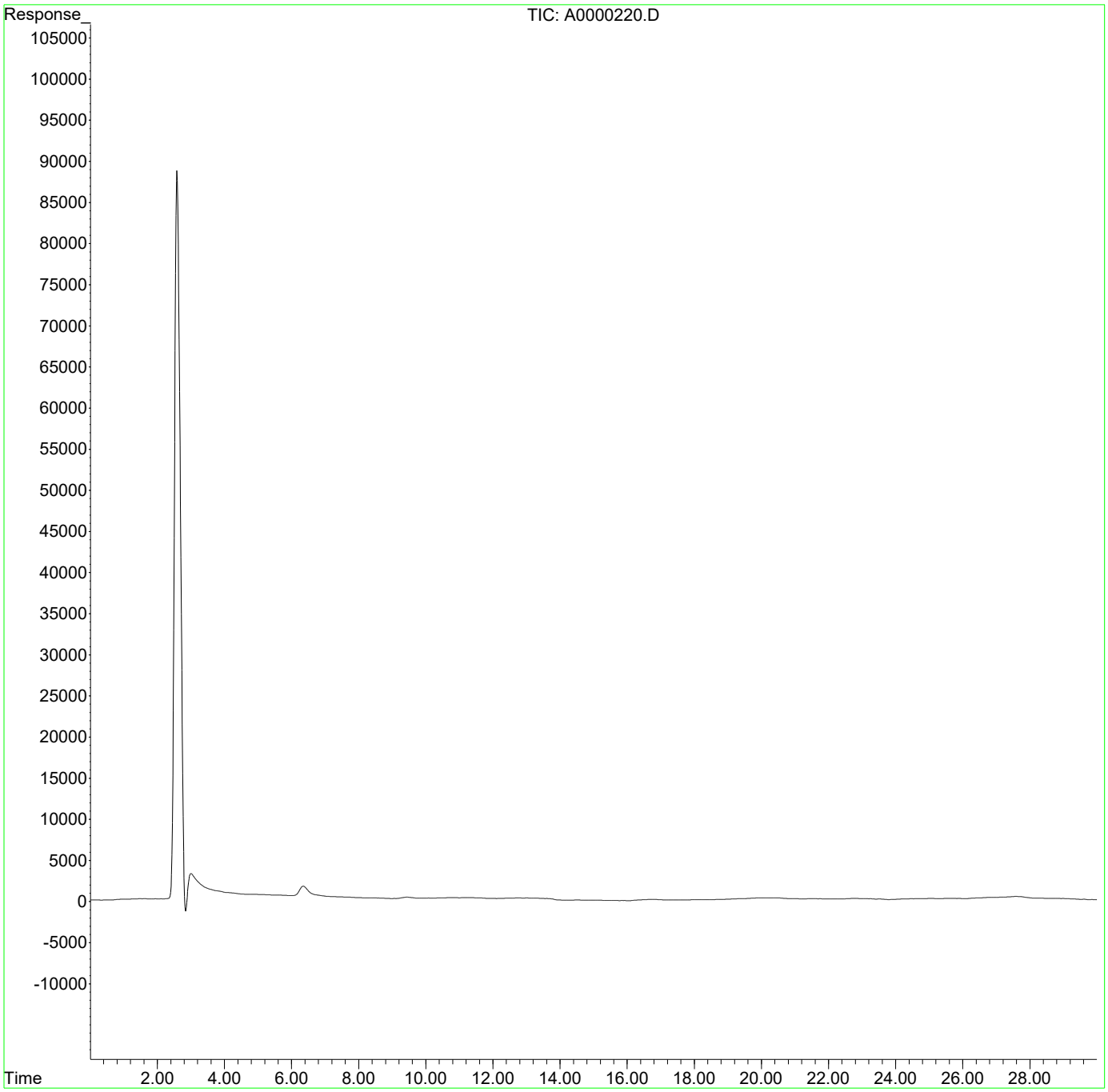
(f)=RT Delta > 1/2 Window (m)=manual int.

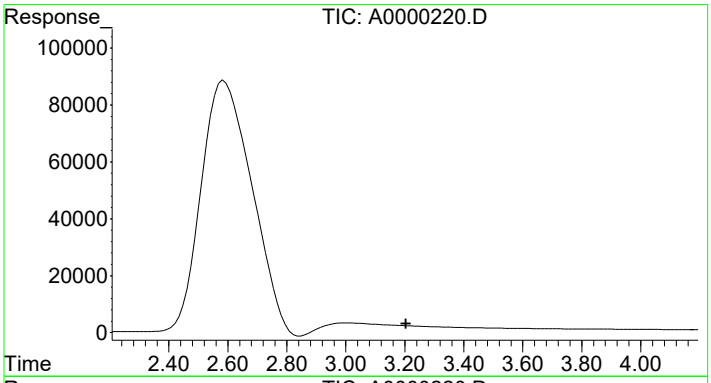
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000220.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 07:06:13
Operator : AFelser
Sample : R2408140-003
Misc :
ALS Vial : 27 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:10 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

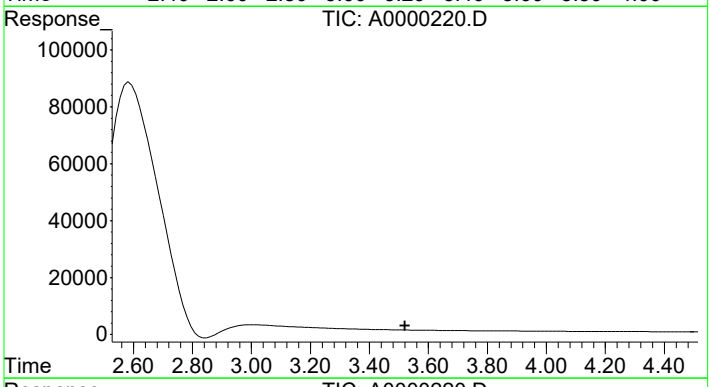
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





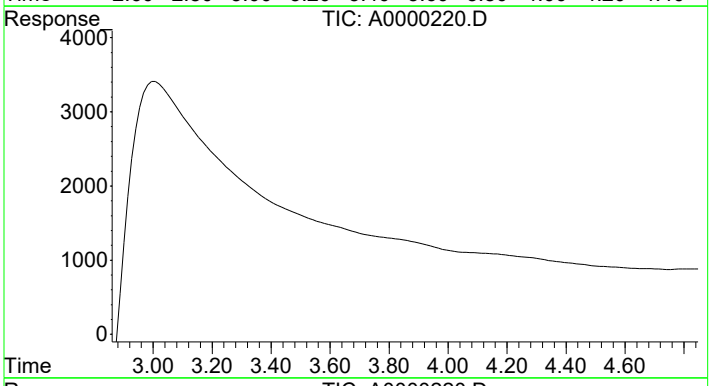
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.204 min
Response: 0
Conc: N.D.



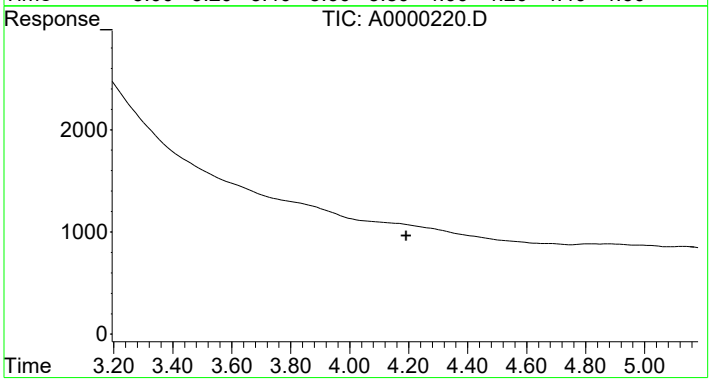
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.521 min
Response: 0
Conc: N.D.



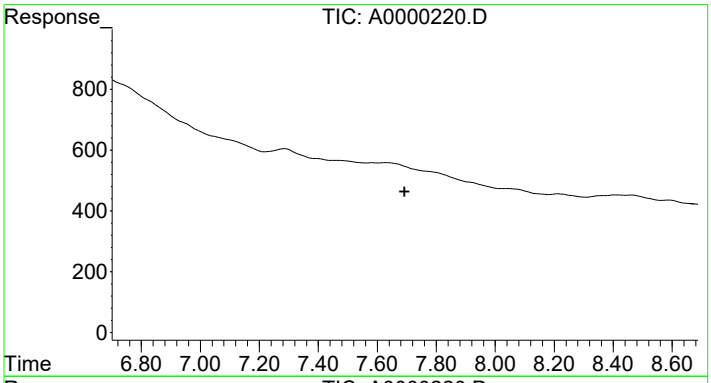
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.851 min
Response: 0
Conc: N.D.



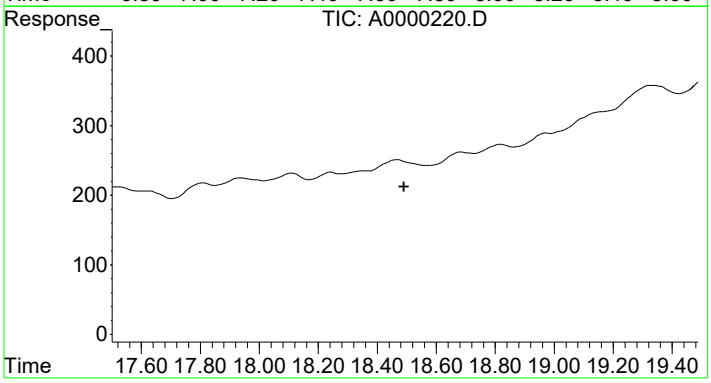
#4 Acetic Acid

R.T.: 0.000 min
Exp R.T. : 4.192 min
Response: 0
Conc: N.D.



#5 Propionic Acid

R.T.: 0.000 min
Exp R.T. : 7.693 min
Response: 0
Conc: N.D.



#6 Butyric Acid

R.T.: 0.000 min
Exp R.T. : 18.491 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000221.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 07:37:58
Operator : AFelser
Sample : R2408140-004
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:12 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	d
2) T	Pyruvic acid	0.000	0	N.D.	ppm	d
3) T	Lactic Acid	0.000	0	N.D.	ppm	d
4) T	Acetic Acid	0.000	0	N.D.	ppm	
5) T	Propionic Acid	0.000	0	N.D.	ppm	
6) T	Butyric Acid	0.000	0	N.D.	ppm	

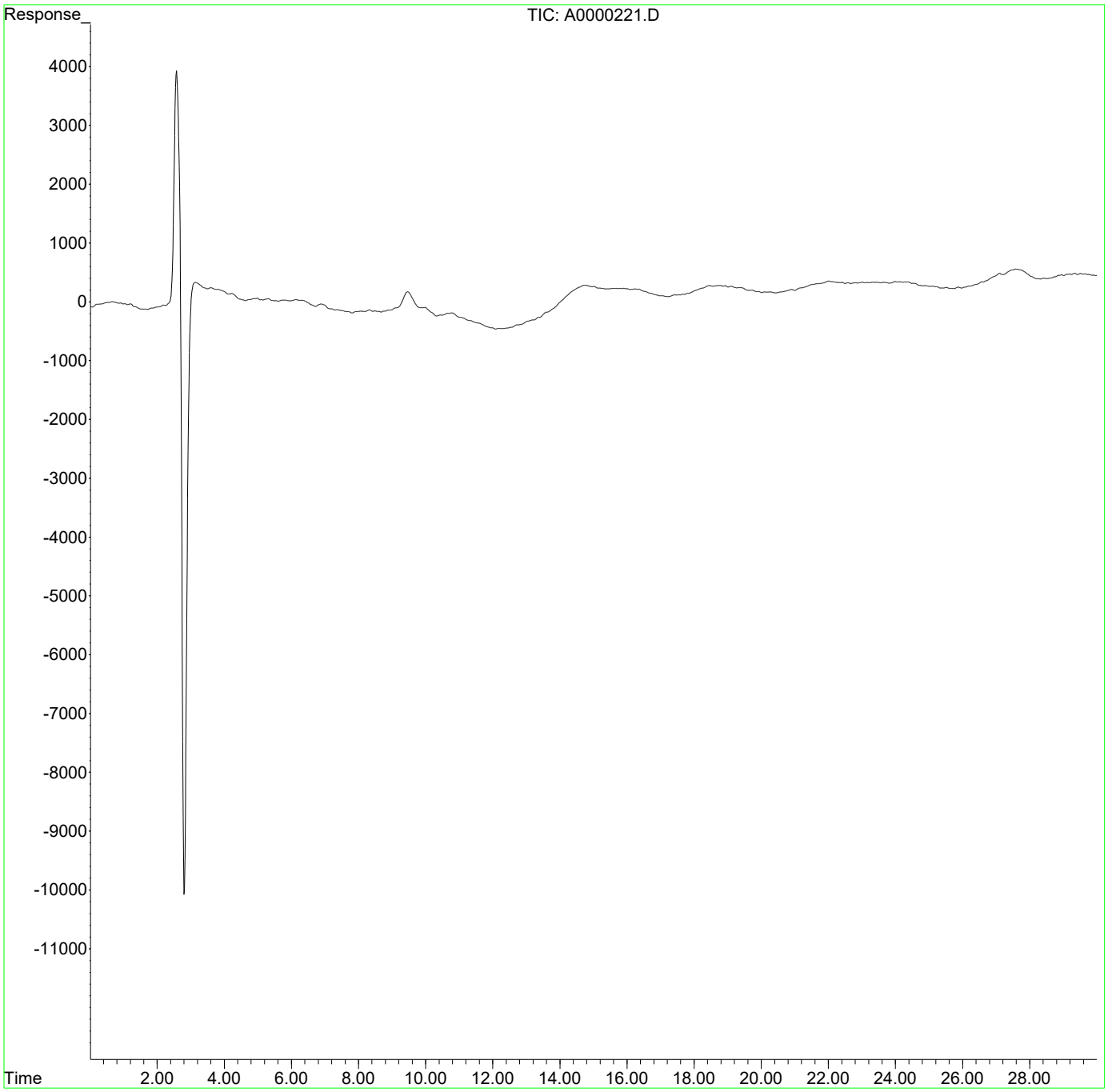
(f)=RT Delta > 1/2 Window (m)=manual int.

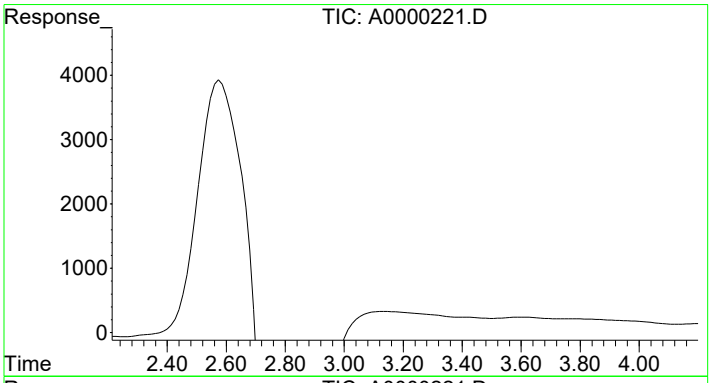
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000221.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 07:37:58
Operator : AFelser
Sample : R2408140-004
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:12 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

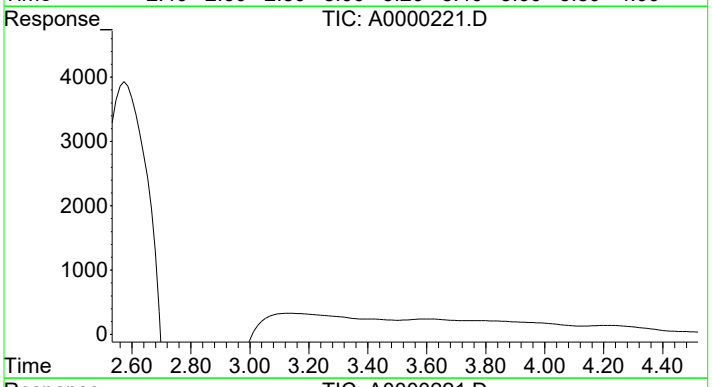
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





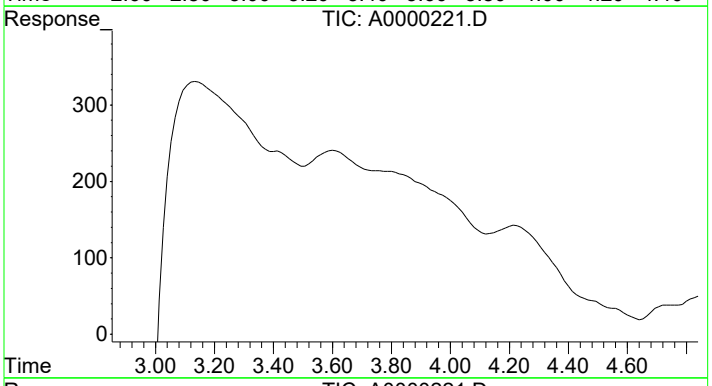
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.204 min
Response: 0
Conc: N.D.



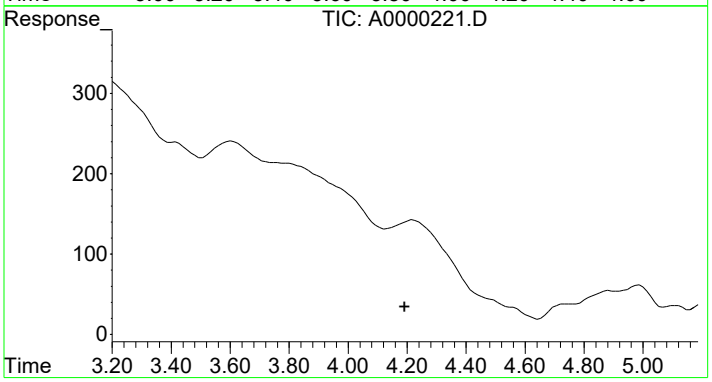
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.521 min
Response: 0
Conc: N.D.



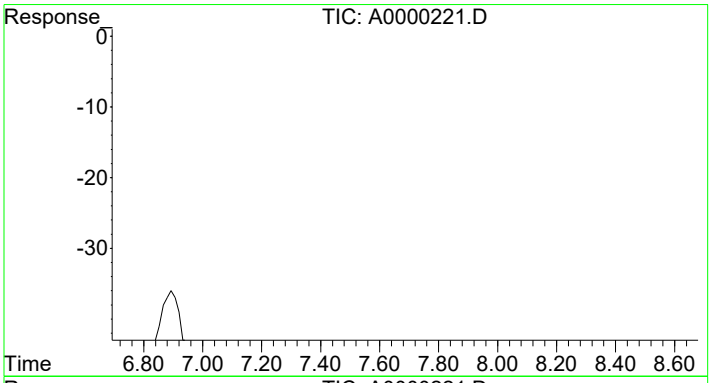
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.851 min
Response: 0
Conc: N.D.



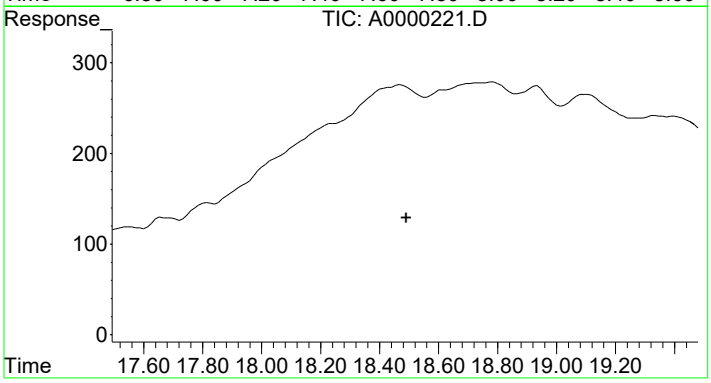
#4 Acetic Acid

R.T.: 0.000 min
Exp R.T. : 4.192 min
Response: 0
Conc: N.D.



#5 Propionic Acid

R.T.: 0.000 min
Exp R.T. : 7.693 min
Response: 0
Conc: N.D.



#6 Butyric Acid

R.T.: 0.000 min
Exp R.T. : 18.491 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000222.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 08:09:43
Operator : AFelser
Sample : R2408140-007
Misc :
ALS Vial : 29 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:14 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	d
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	0.000	0	N.D.	ppm	
5) T	Propionic Acid	0.000	0	N.D.	ppm	
6) T	Butyric Acid	0.000	0	N.D.	ppm	

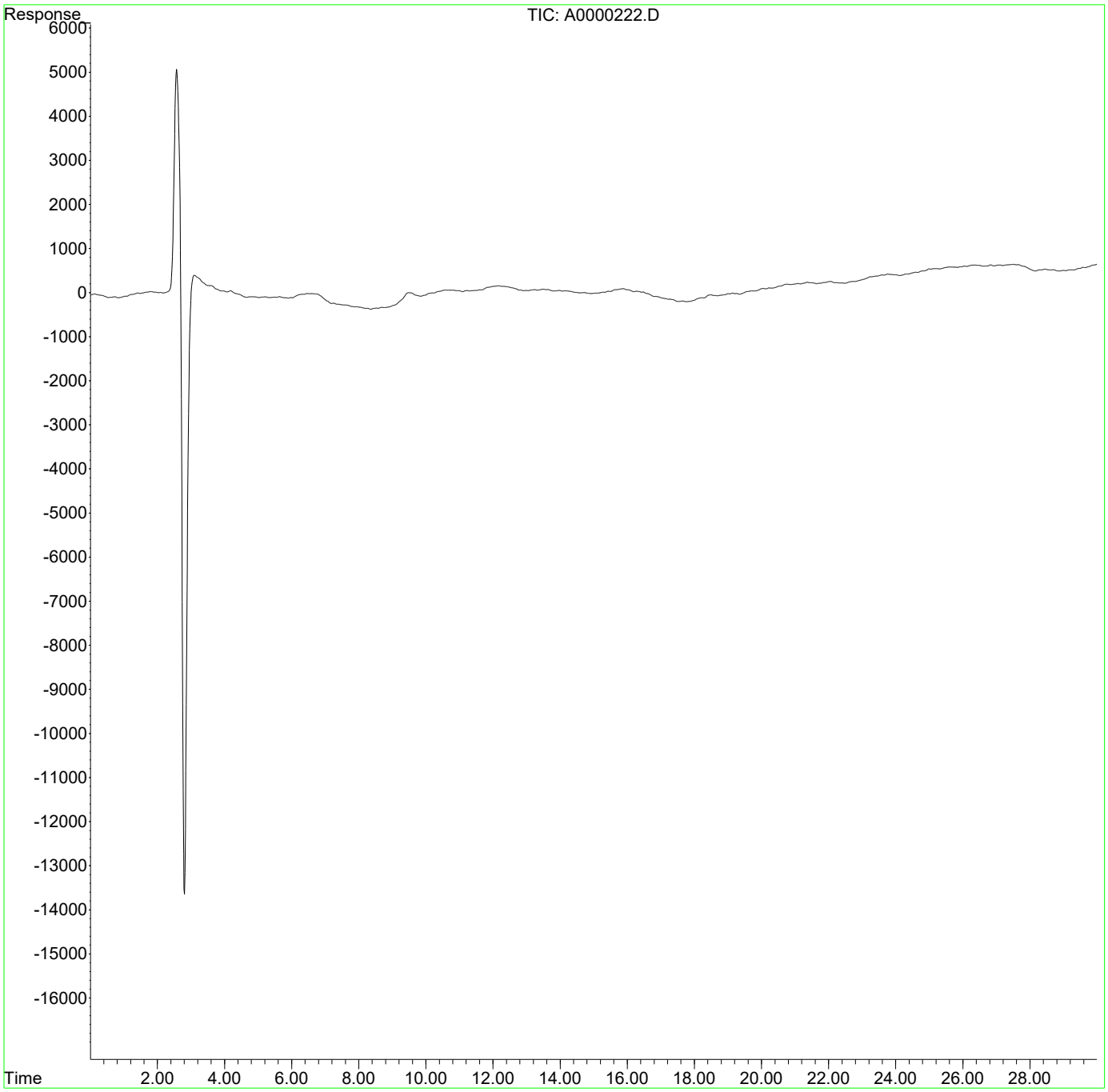
(f)=RT Delta > 1/2 Window (m)=manual int.

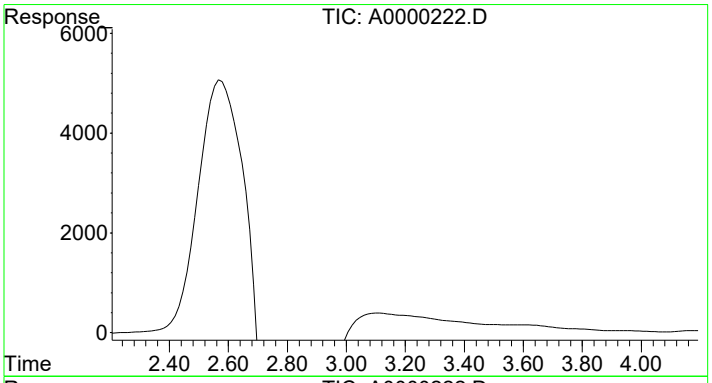
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000222.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 08:09:43
Operator : AFelser
Sample : R2408140-007
Misc :
ALS Vial : 29 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:14 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

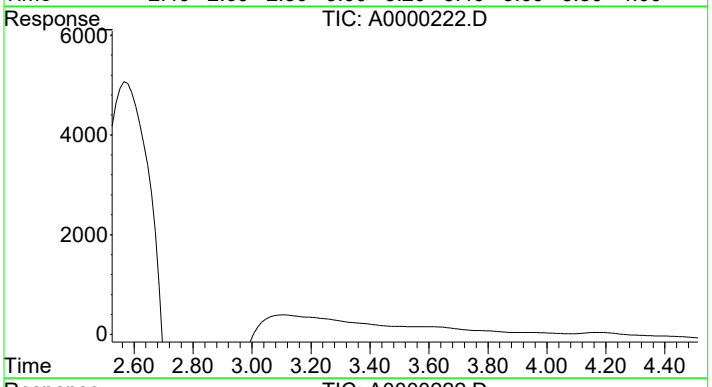
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





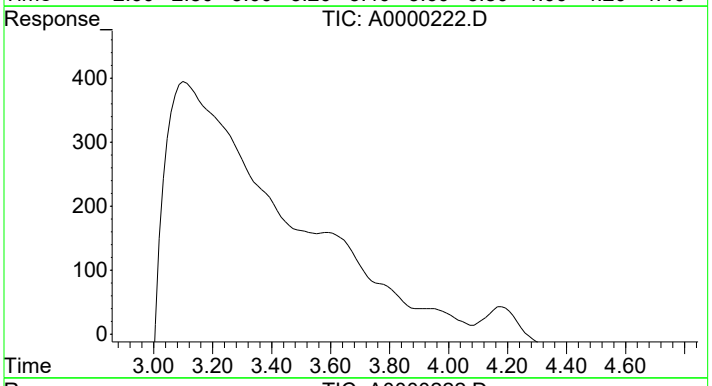
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.204 min
Response: 0
Conc: N.D.



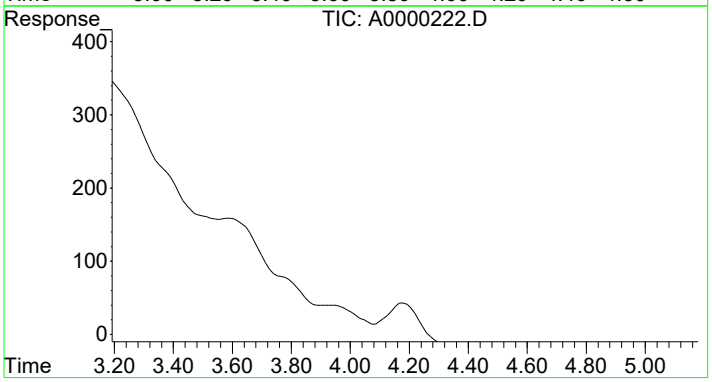
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.521 min
Response: 0
Conc: N.D.



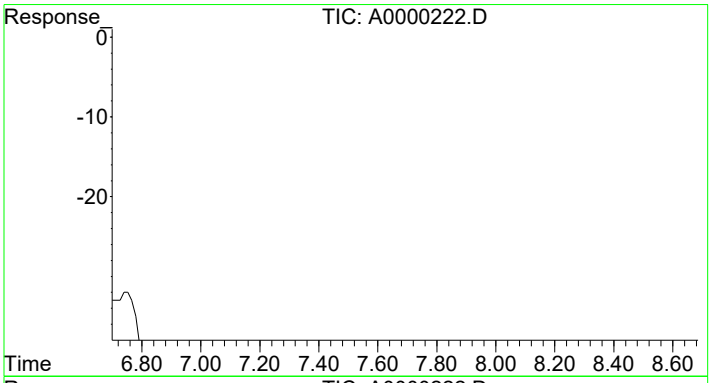
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.851 min
Response: 0
Conc: N.D.



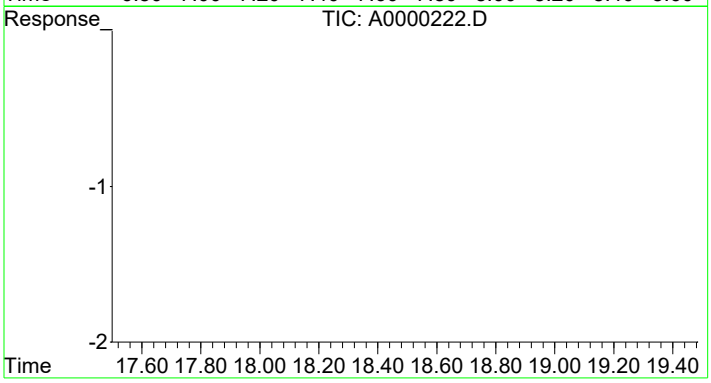
#4 Acetic Acid

R.T.: 0.000 min
Exp R.T. : 4.192 min
Response: 0
Conc: N.D.



#5 Propionic Acid

R.T.: 0.000 min
Exp R.T. : 7.693 min
Response: 0
Conc: N.D.



#6 Butyric Acid

R.T.: 0.000 min
Exp R.T. : 18.491 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000223.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 08:41:31
Operator : AFelser
Sample : R2408140-008
Misc :
ALS Vial : 30 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:16 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	d
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	0.000	0	N.D.	ppm	
5) T	Propionic Acid	0.000	0	N.D.	ppm	
6) T	Butyric Acid	0.000	0	N.D.	ppm	d

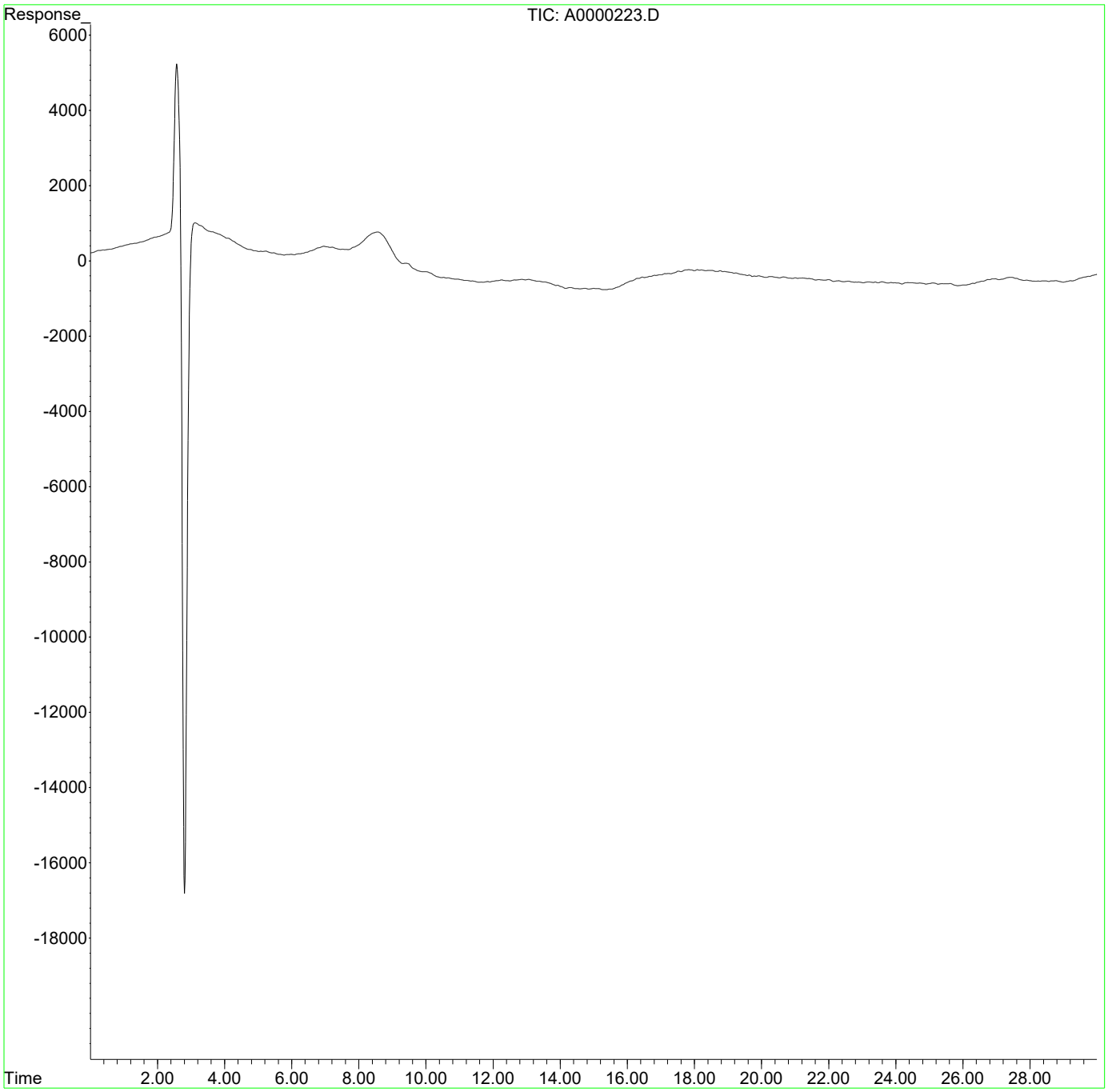
(f)=RT Delta > 1/2 Window (m)=manual int.

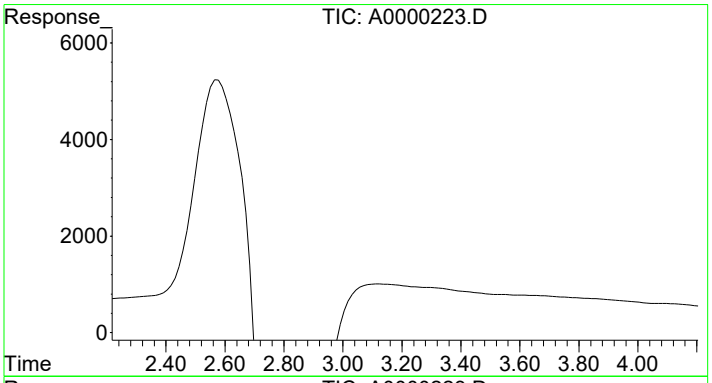
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000223.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 08:41:31
Operator : AFelser
Sample : R2408140-008
Misc :
ALS Vial : 30 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:16 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

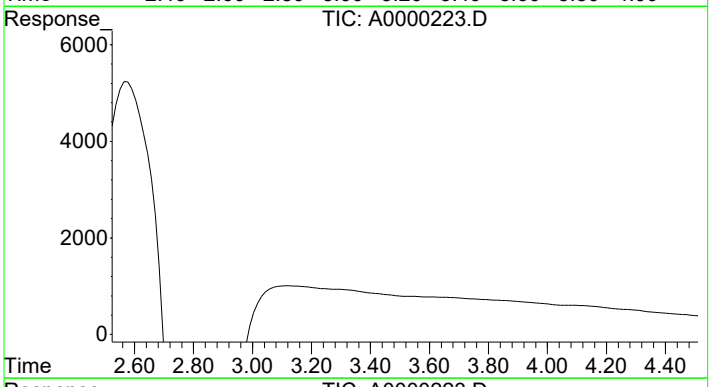
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





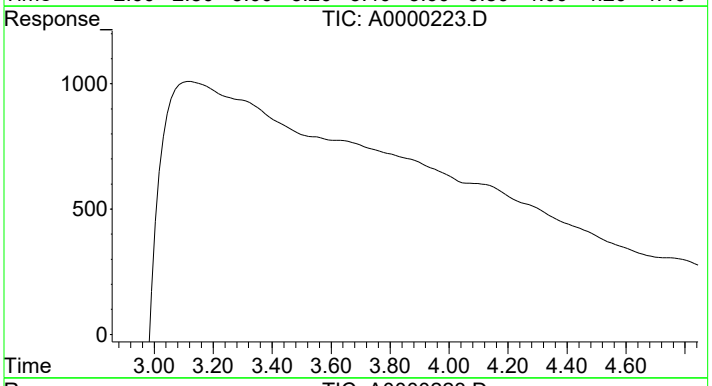
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.204 min
Response: 0
Conc: N.D.



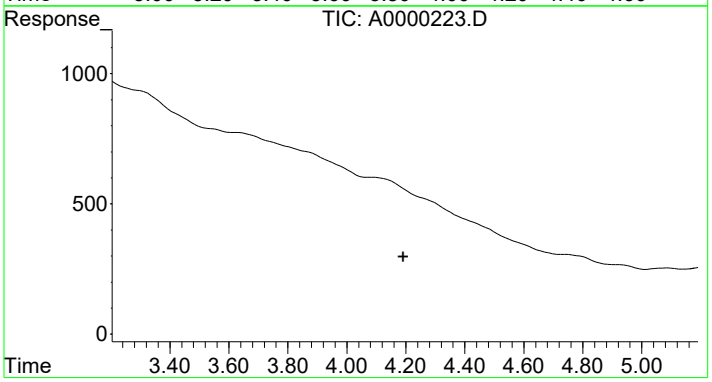
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.521 min
Response: 0
Conc: N.D.



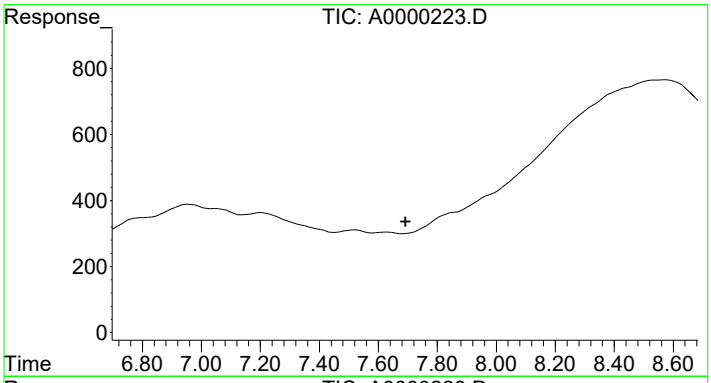
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.851 min
Response: 0
Conc: N.D.



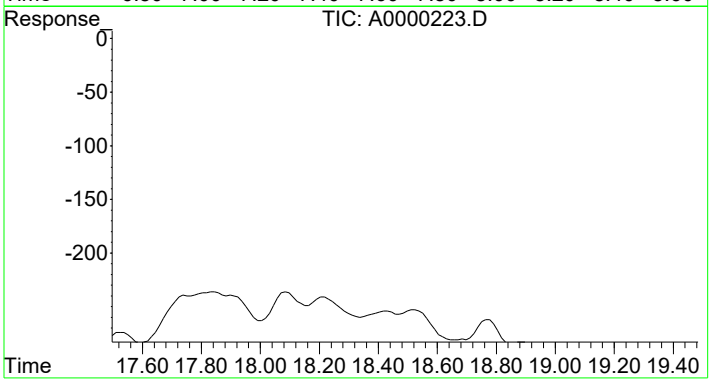
#4 Acetic Acid

R.T.: 0.000 min
Exp R.T. : 4.192 min
Response: 0
Conc: N.D.



#5 Propionic Acid

R.T.: 0.000 min
Exp R.T. : 7.693 min
Response: 0
Conc: N.D.



#6 Butyric Acid

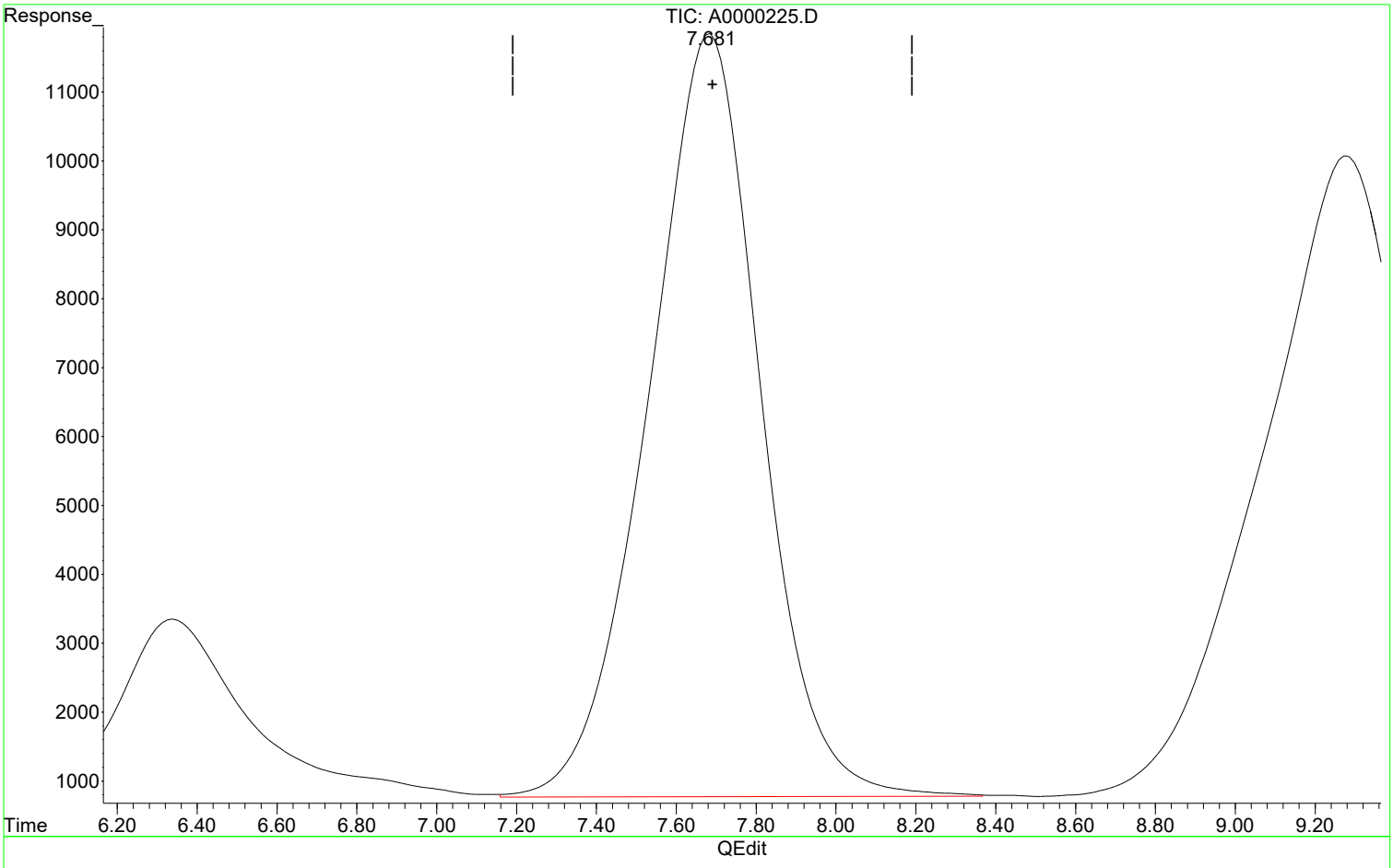
R.T.: 0.000 min
Exp R.T. : 18.491 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000225.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 09:45:05
Operator : AFelser
Sample : R2408140-010
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:28 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.681min 40.381 ppm m

response 2153316

Manual Integration:

After

Poor integration.

09/09/24

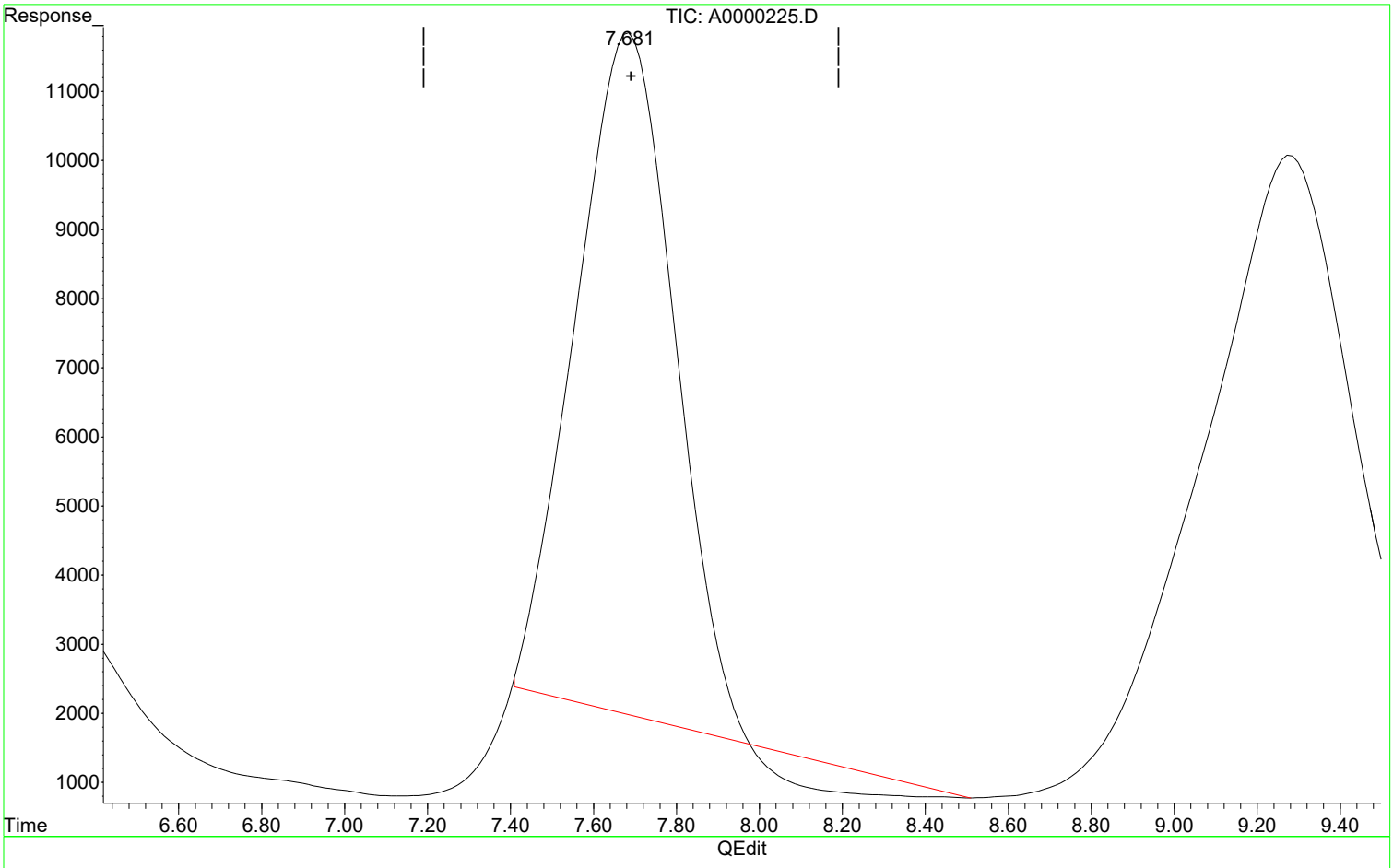
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000225.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 09:45:05
Operator : AFelser
Sample : R2408140-010
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:28 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.686min 29.287 ppm

response 1561733

Manual Integration:

Before

09/09/24

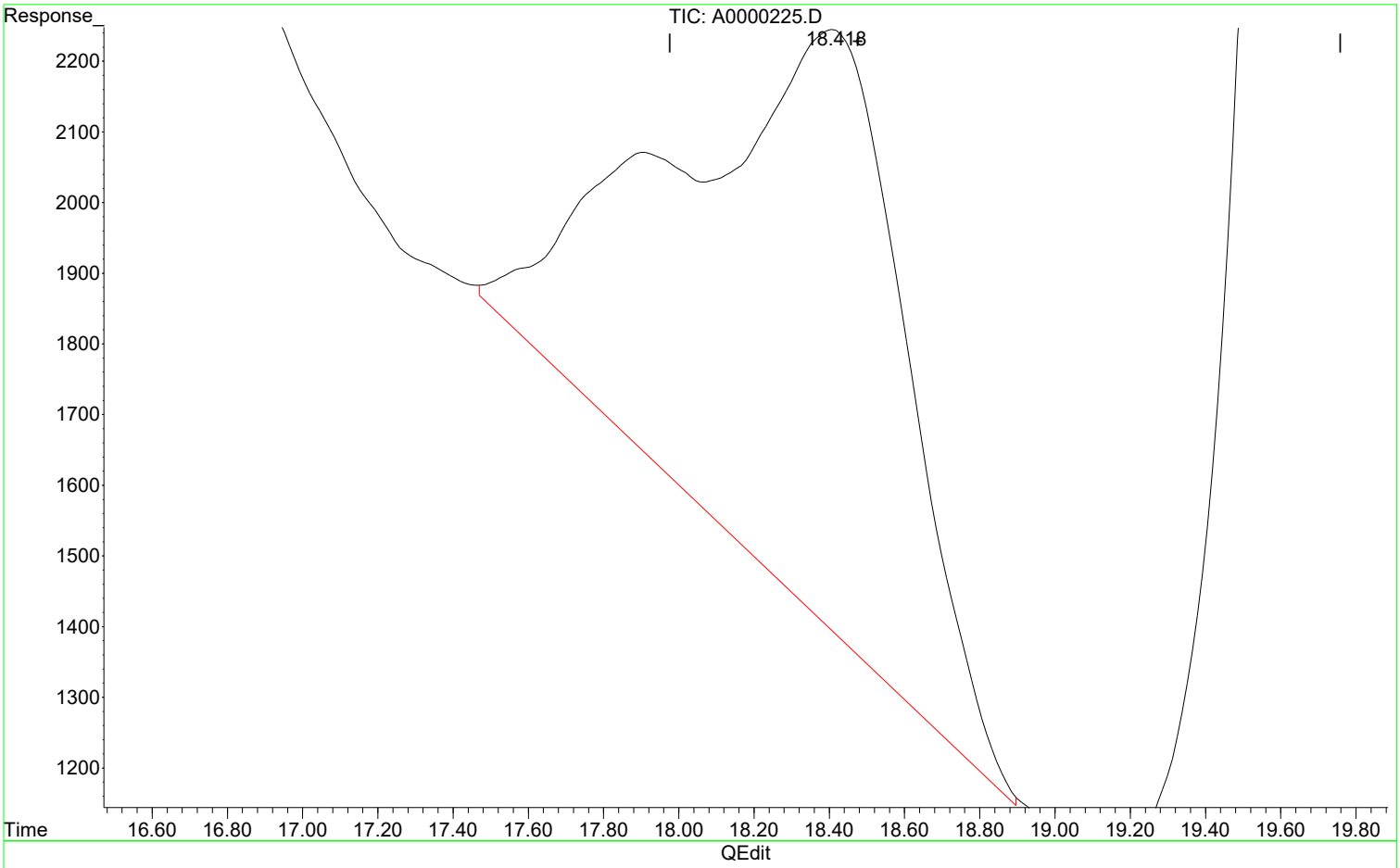
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000225.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 09:45:05
Operator : AFelser
Sample : R2408140-010
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:28 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.418min 4.698 ppm m

response 350022

Manual Integration:

After

Poor integration.

09/09/24

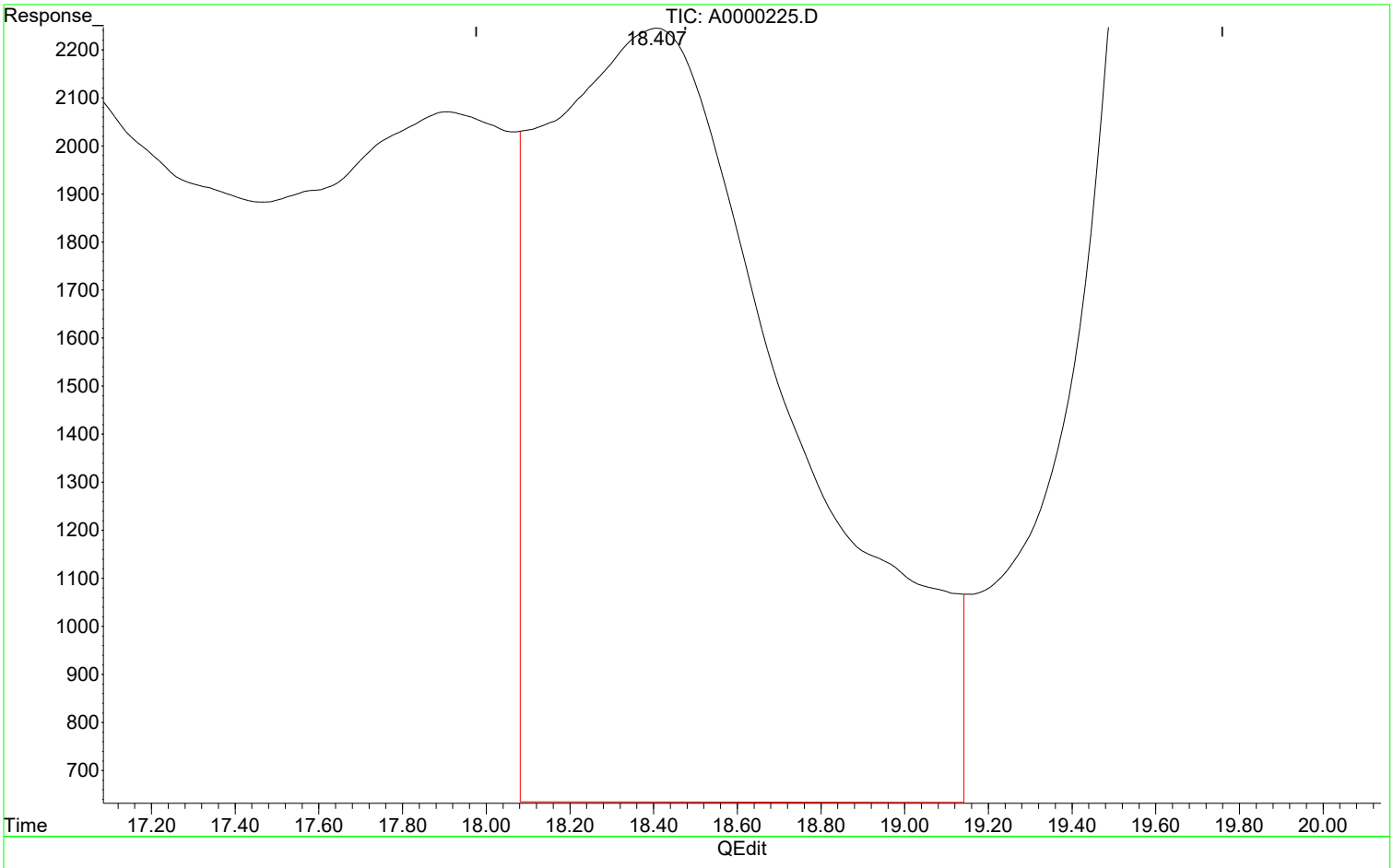
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000225.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 09:45:05
Operator : AFelser
Sample : R2408140-010
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:28 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.403min 9.015 ppm

response 671669

Manual Integration:

Before

09/09/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000225.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 09:45:05
Operator : AFelser
Sample : R2408140-010
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:28 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	2.984	554467	6.389	ppm	
2) T	Pyruvic acid	3.525	241935	0.499	ppm	
3) T	Lactic Acid	3.827	100362752	1939.450	ppm	
4) T	Acetic Acid	4.180	11988868	229.722	ppm	
5) T	Propionic Acid	7.681	2153316	40.381	ppm	m
6) T	Butyric Acid	18.418	350022	4.698	ppm	m

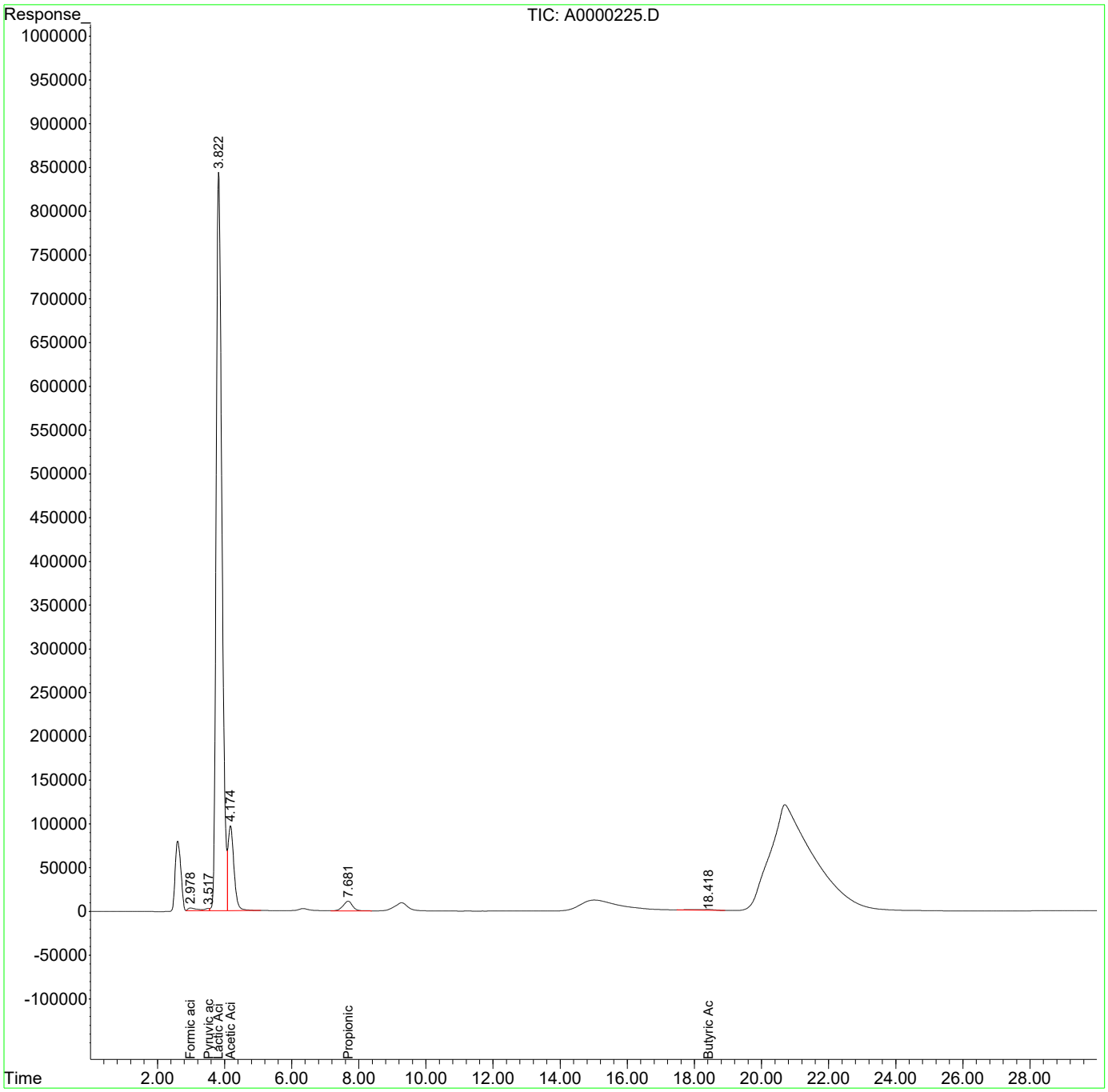
(f)=RT Delta > 1/2 Window (m)=manual int.

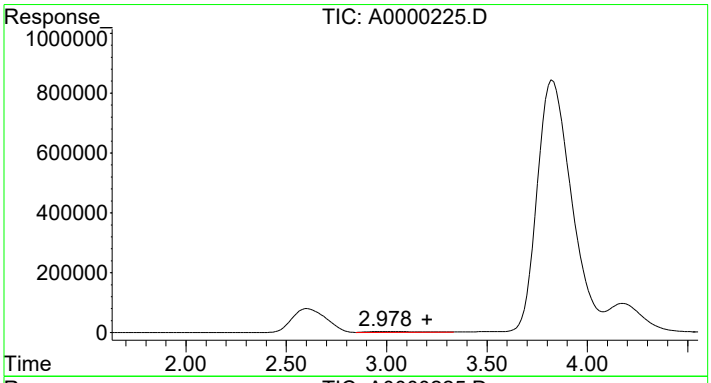
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000225.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 09:45:05
Operator : AFelser
Sample : R2408140-010
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:28 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

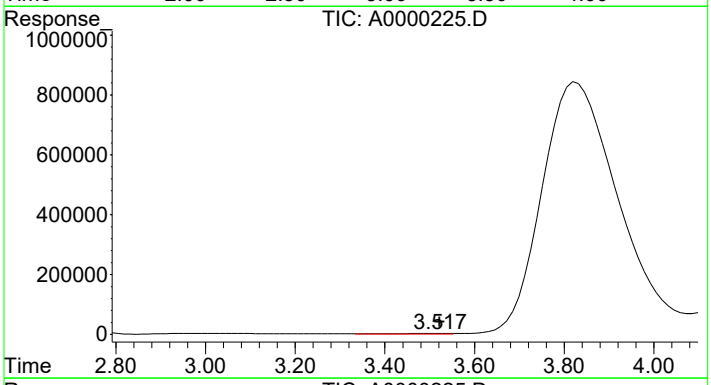
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





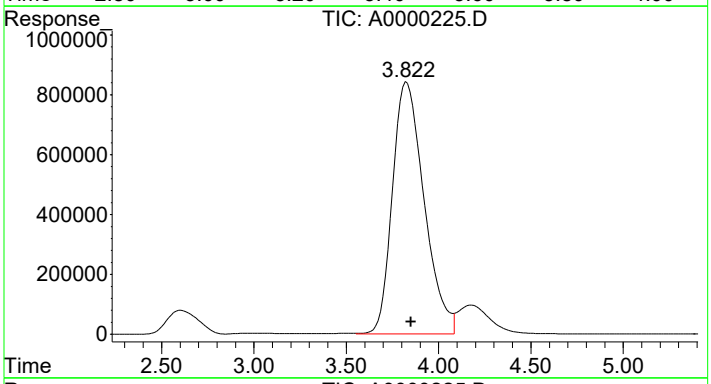
#1 Formic acid

R.T.: 2.984 min
Delta R.T.: -0.220 min
Response: 554467
Conc: 6.39 ppm



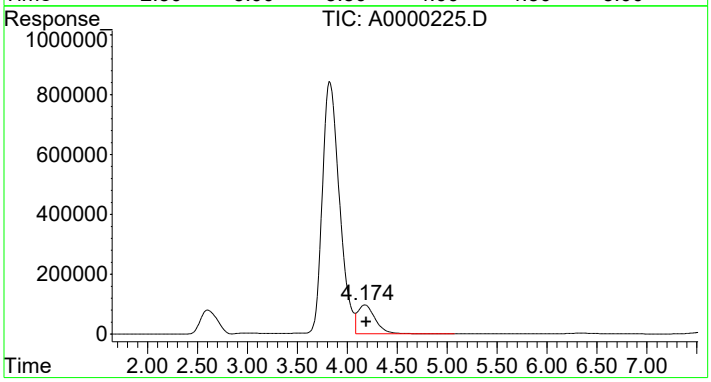
#2 Pyruvic acid

R.T.: 3.525 min
Delta R.T.: 0.003 min
Response: 241935
Conc: 0.50 ppm



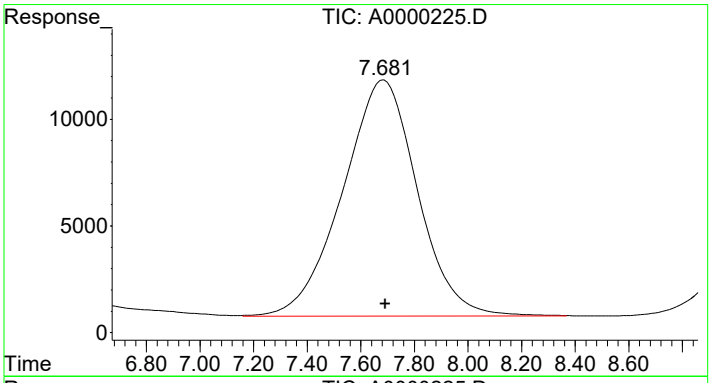
#3 Lactic Acid

R.T.: 3.827 min
Delta R.T.: -0.023 min
Response: 100362752
Conc: 1939.45 ppm



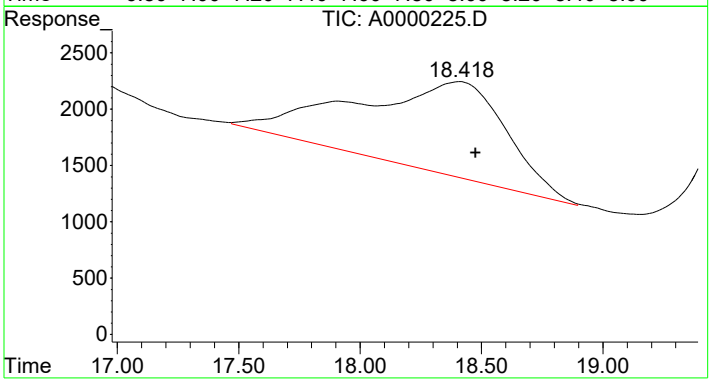
#4 Acetic Acid

R.T.: 4.180 min
Delta R.T.: -0.012 min
Response: 11988868
Conc: 229.72 ppm



#5 Propionic Acid

R.T.: 7.681 min
Delta R.T.: -0.010 min
Response: 2153316
Conc: 40.38 ppm m



#6 Butyric Acid

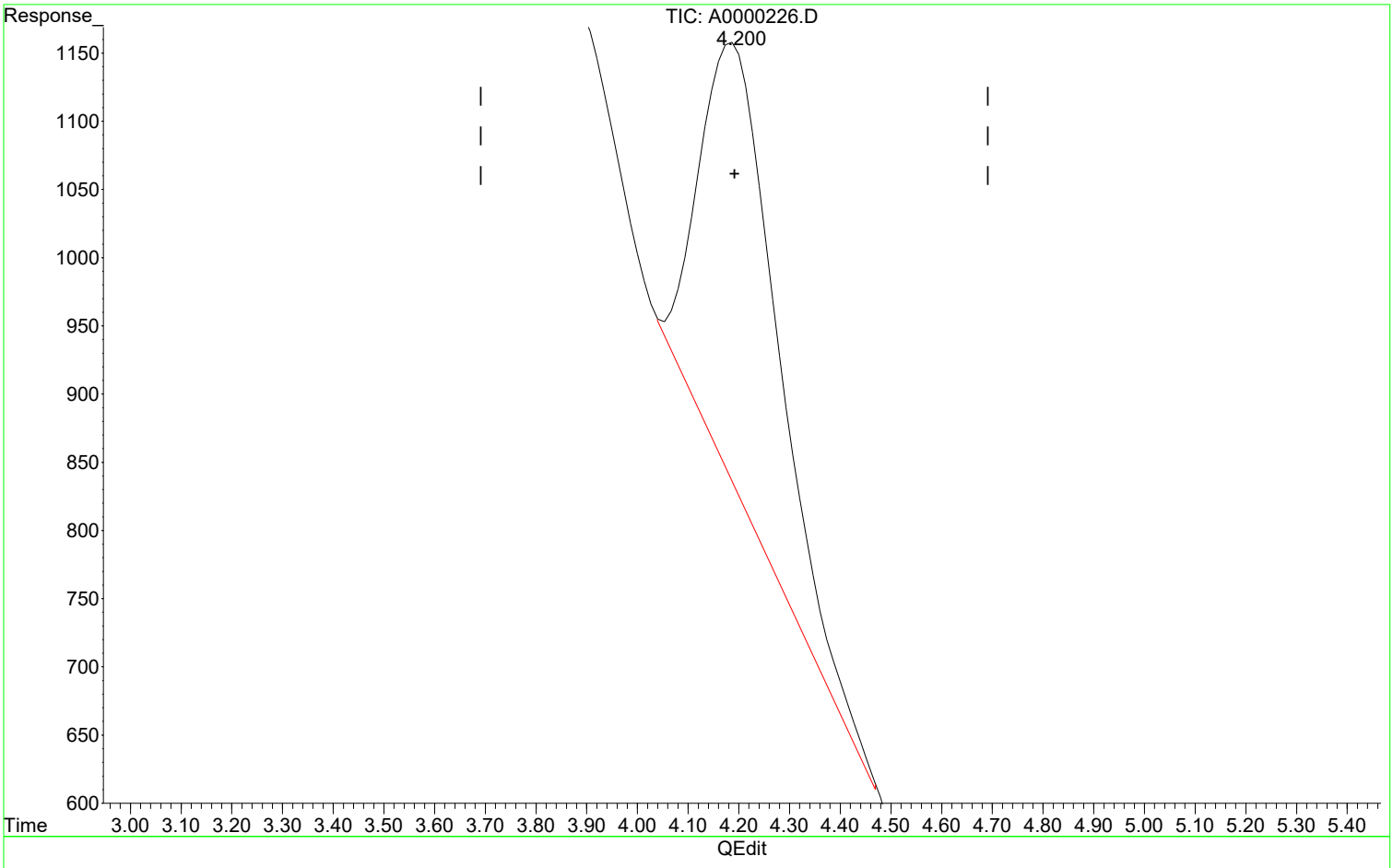
R.T.: 18.418 min
Delta R.T.: -0.058 min
Response: 350022
Conc: 4.70 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000226.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 10:16:55
Operator : AFelser
Sample : R2408140-011
Misc :
ALS Vial : 32 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:31 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.200min 0.662 ppm m

response 34548

Manual Integration:

After

Peak not found.

09/09/24

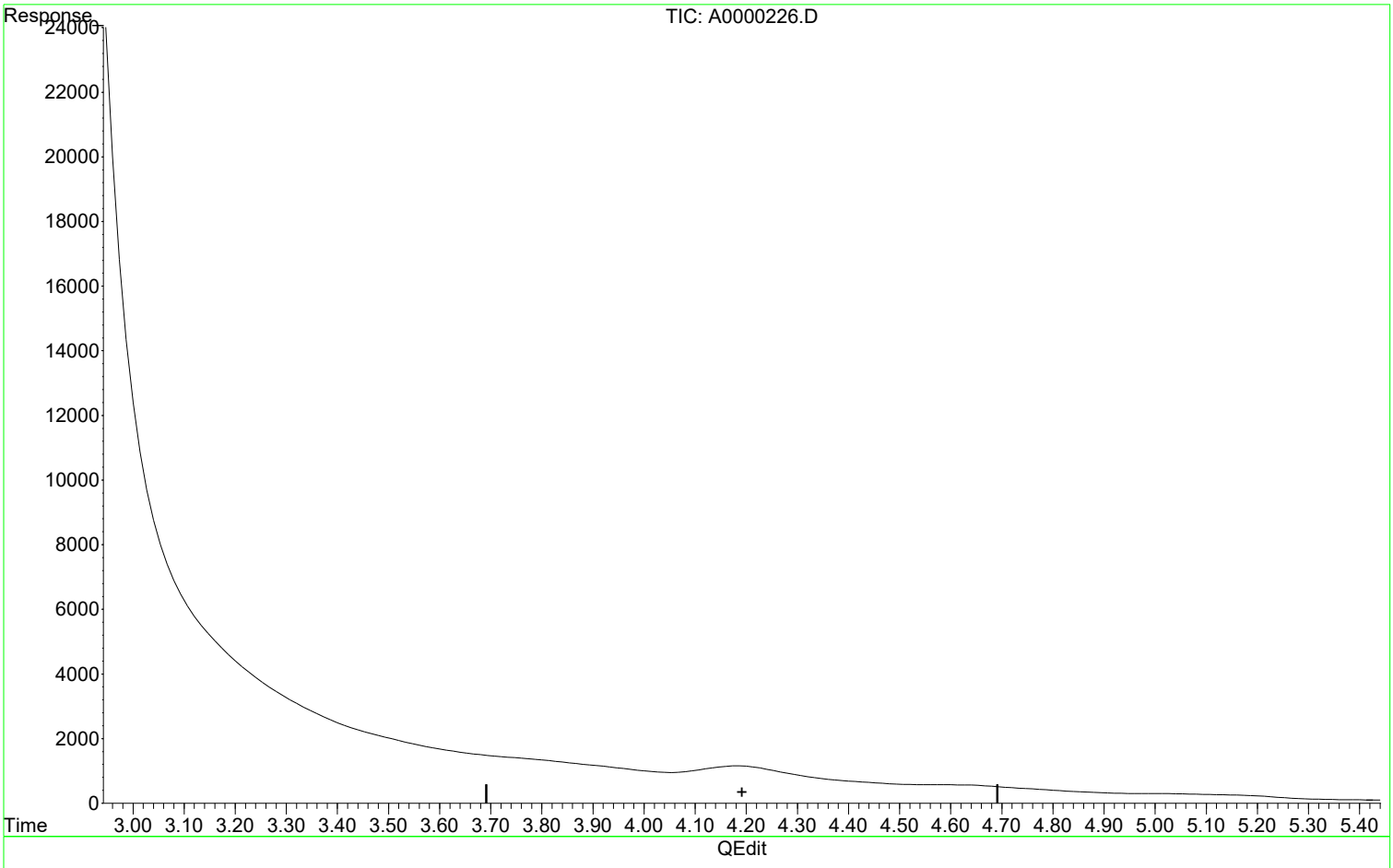
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000226.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 10:16:55
Operator : AFelser
Sample : R2408140-011
Misc :
ALS Vial : 32 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:31 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.192min 0.000 ppm

response 0

Manual Integration:

Before

09/09/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000226.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 10:16:55
Operator : AFelser
Sample : R2408140-011
Misc :
ALS Vial : 32 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:31 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	4.200	34548	0.662	ppm	m
5) T	Propionic Acid	0.000	0	N.D.	ppm	
6) T	Butyric Acid	0.000	0	N.D.	ppm	d

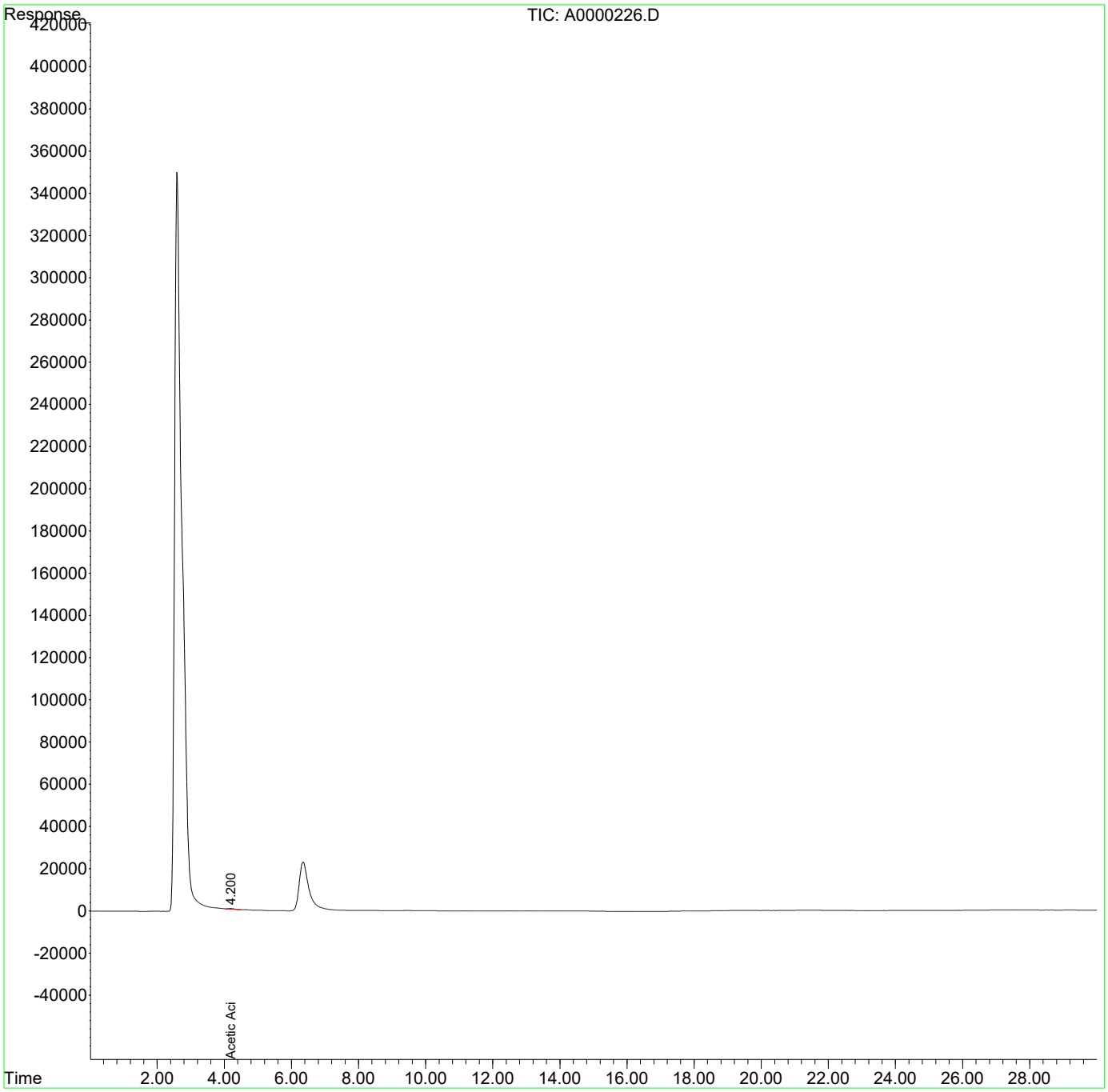
(f)=RT Delta > 1/2 Window (m)=manual int.

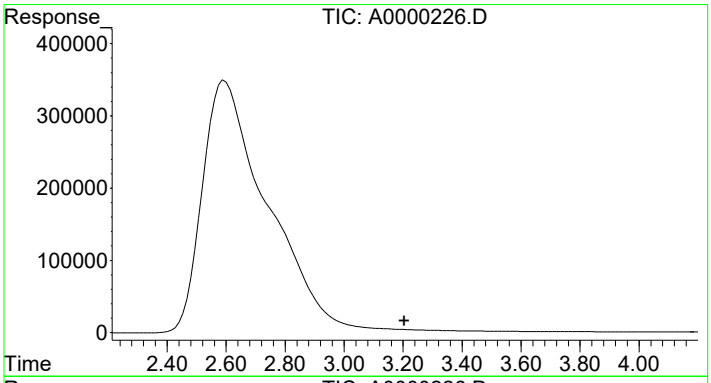
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000226.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 10:16:55
Operator : AFelser
Sample : R2408140-011
Misc :
ALS Vial : 32 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:31 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

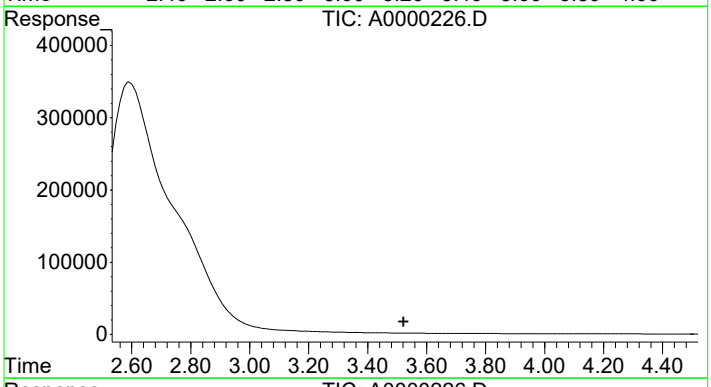
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





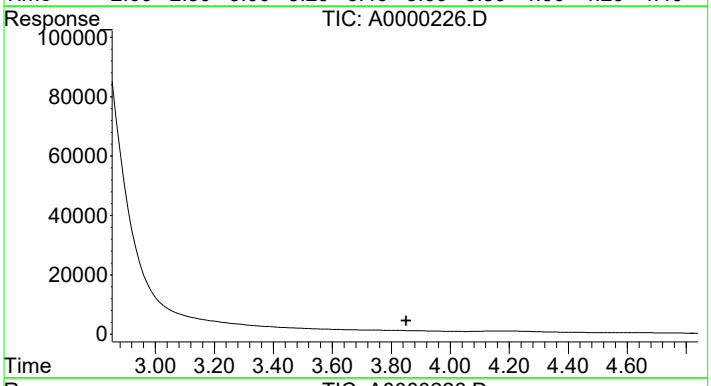
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.204 min
Response: 0
Conc: N.D.



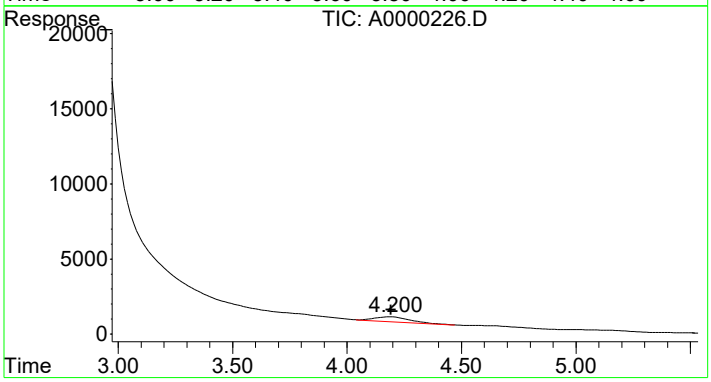
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.522 min
Response: 0
Conc: N.D.



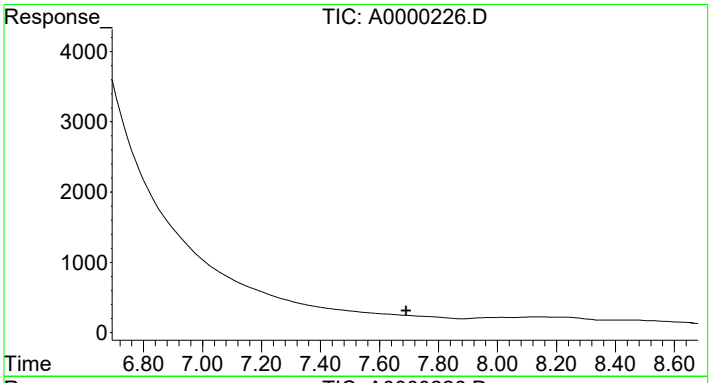
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.851 min
Response: 0
Conc: N.D.



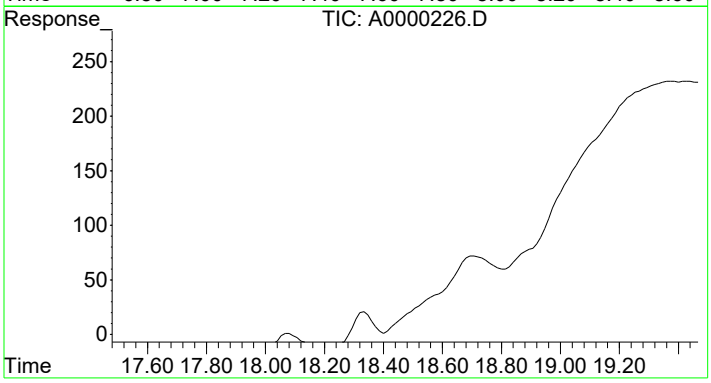
#4 Acetic Acid

R.T.: 4.200 min
Delta R.T.: 0.008 min
Response: 34548
Conc: 0.66 ppm m



#5 Propionic Acid

R.T.: 0.000 min
Exp R.T. : 7.691 min
Response: 0
Conc: N.D.



#6 Butyric Acid

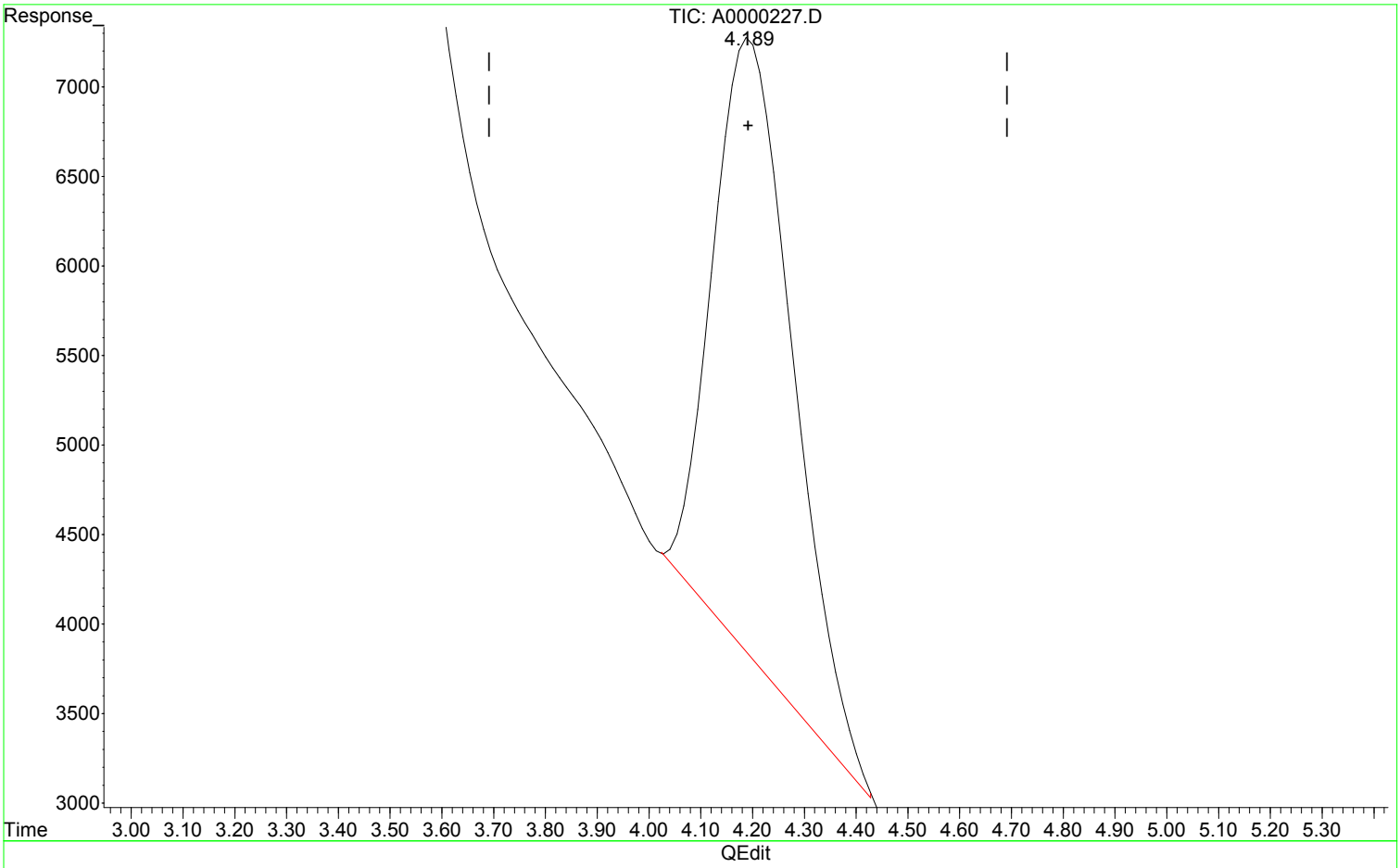
R.T.: 0.000 min
Exp R.T. : 18.477 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000227.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 10:48:41
Operator : AFelser
Sample : R2408140-012
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:33 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.189min 7.148 ppm m

response 373068

Manual Integration:

After

Poor integration.

09/05/24

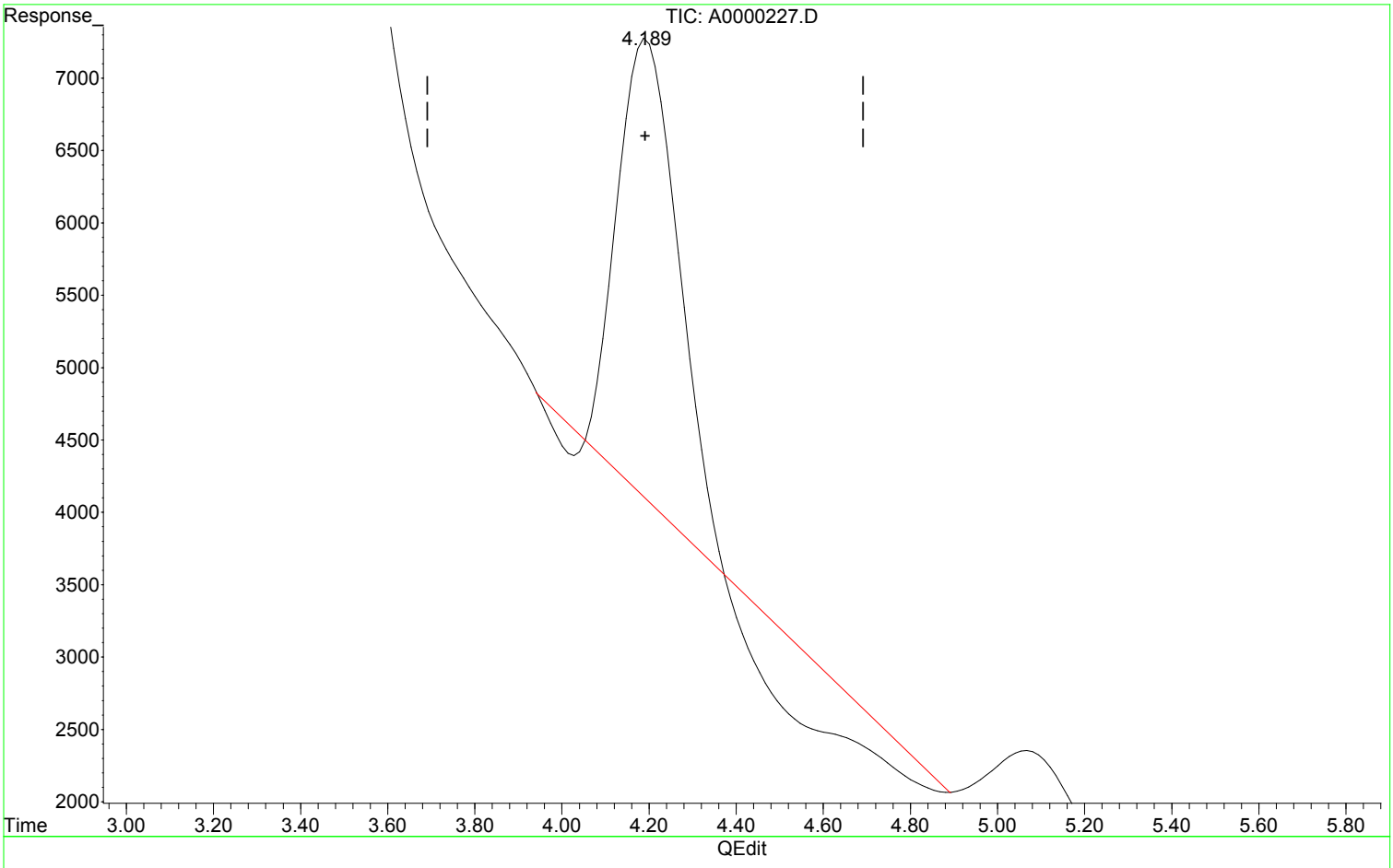
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000227.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 10:48:41
Operator : AFelser
Sample : R2408140-012
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:33 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.195min 4.294 ppm

response 224120

Manual Integration:

Before

09/05/24

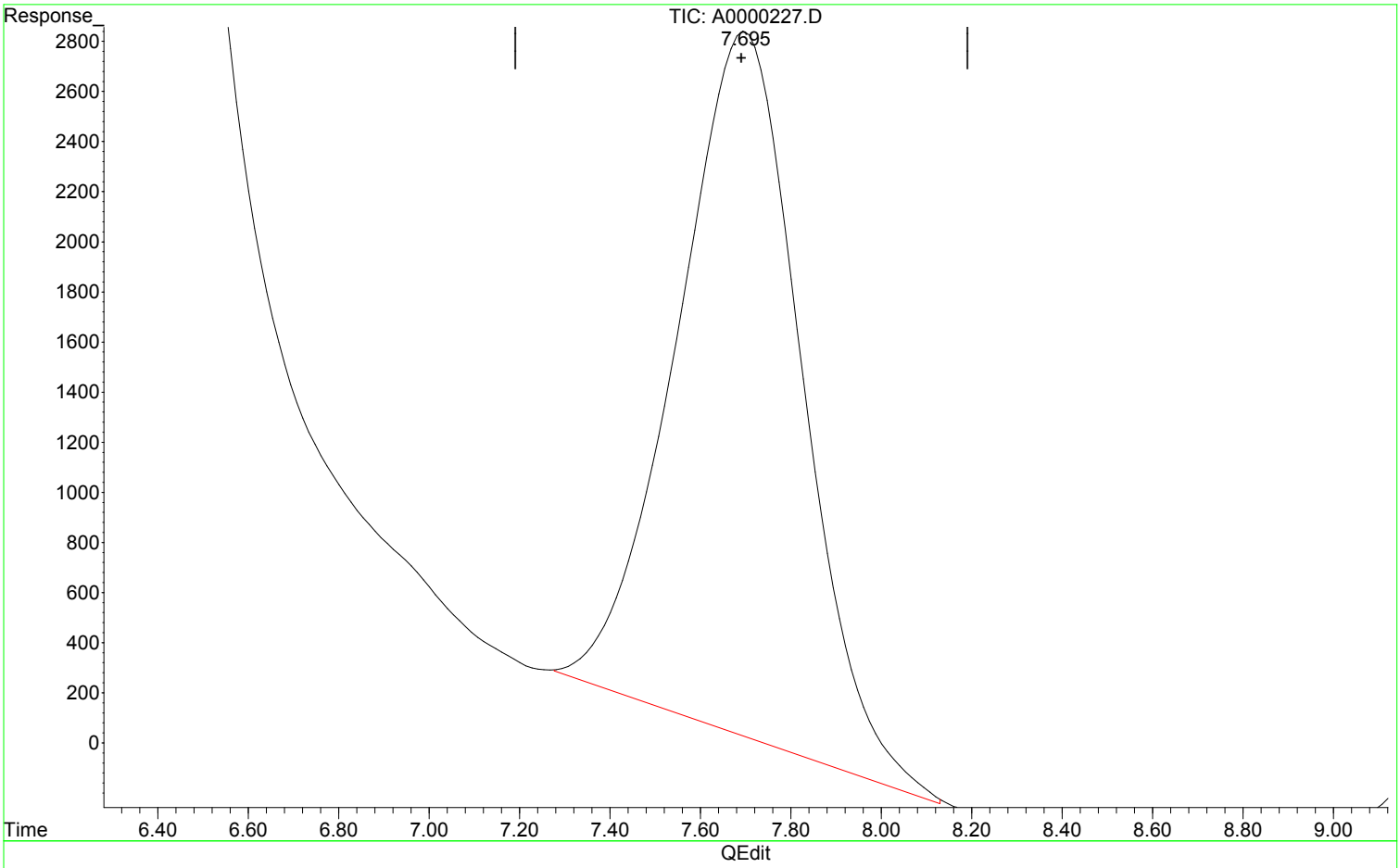
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000227.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 10:48:41
Operator : AFelser
Sample : R2408140-012
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:33 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.695min 10.146 ppm m

response 541057

Manual Integration:

After

Poor integration.

09/05/24

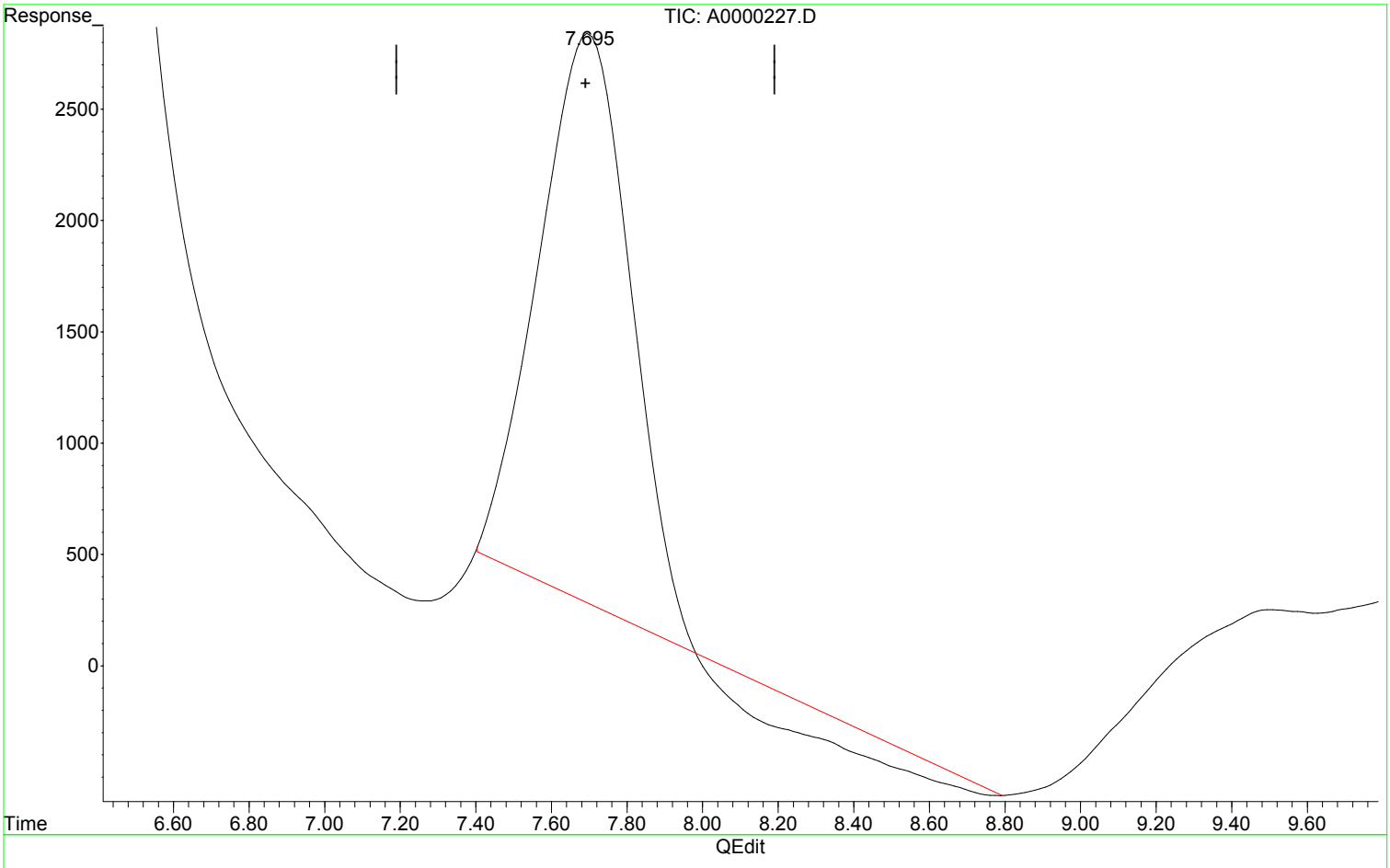
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000227.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 10:48:41
Operator : AFelser
Sample : R2408140-012
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:33 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.700min 7.308 ppm

response 389693

Manual Integration:

Before

09/05/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000227.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 10:48:41
Operator : AFelser
Sample : R2408140-012
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:33 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	4.189	373068	7.148	ppm	m
5) T	Propionic Acid	7.695	541057	10.146	ppm	m
6) T	Butyric Acid	0.000	0	N.D.	ppm	d

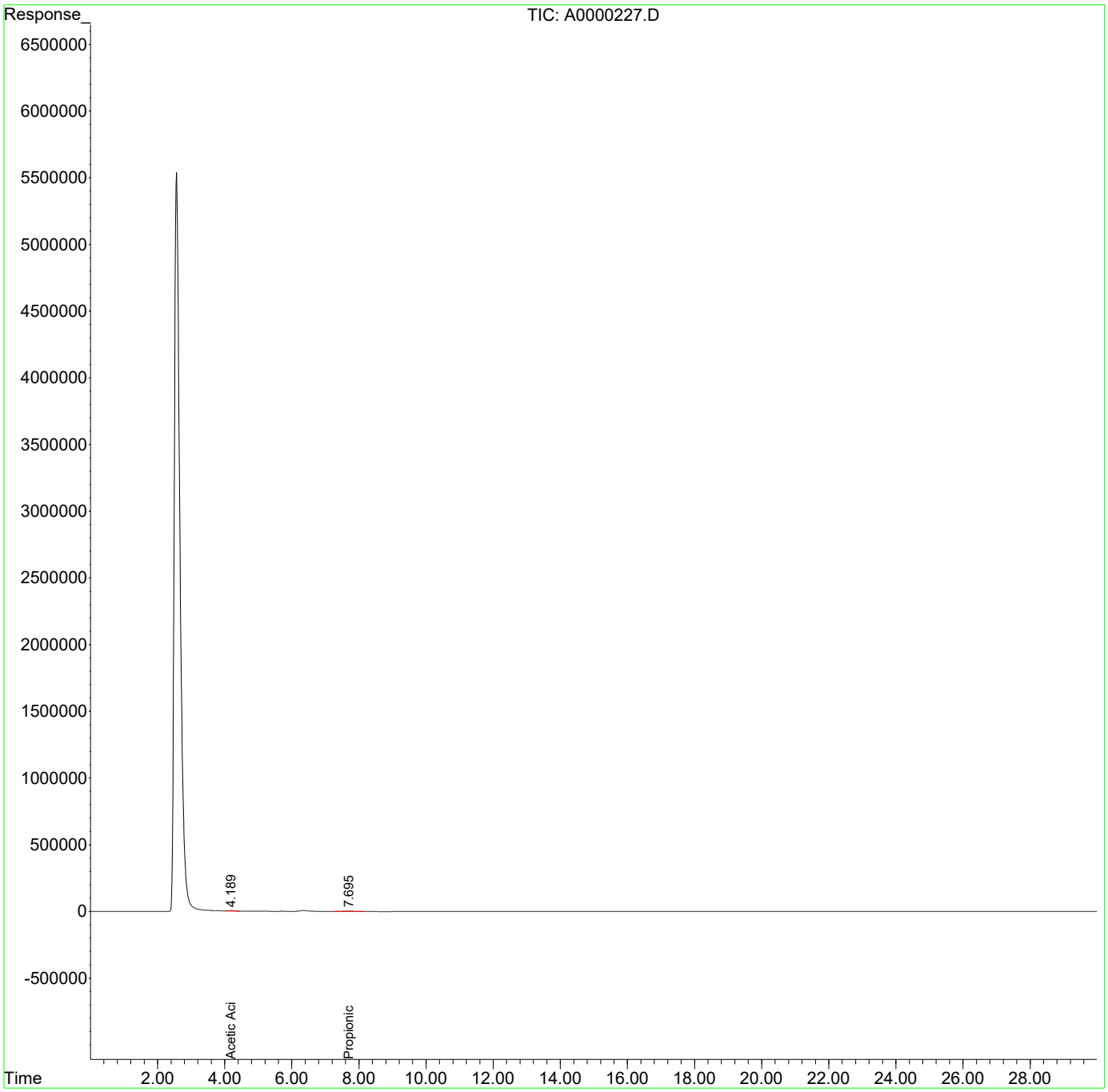
(f)=RT Delta > 1/2 Window (m)=manual int.

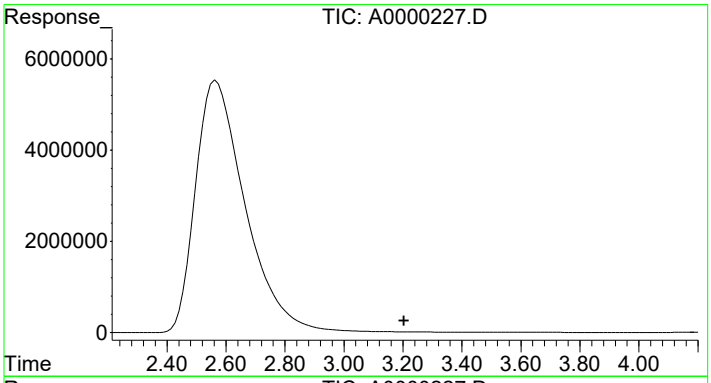
1st AF 09/09/24
2nd AM 09/09/24

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000227.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 10:48:41
Operator : AFelser
Sample : R2408140-012
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:33 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

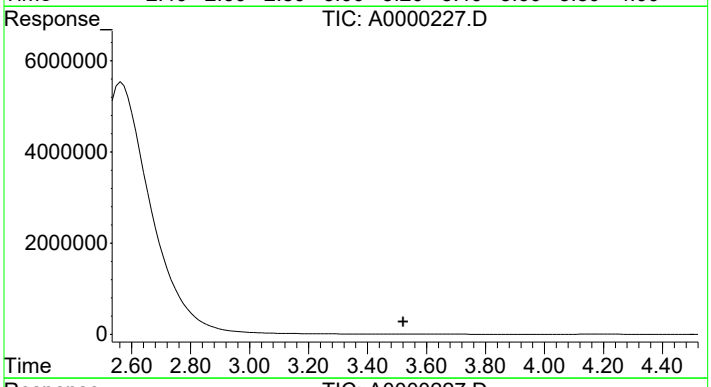
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





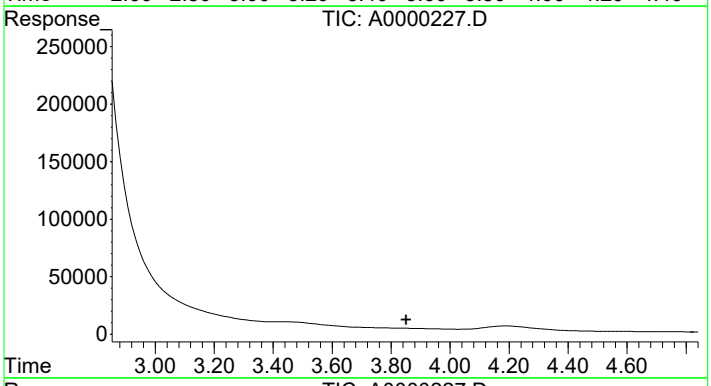
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.204 min
Response: 0
Conc: N.D.



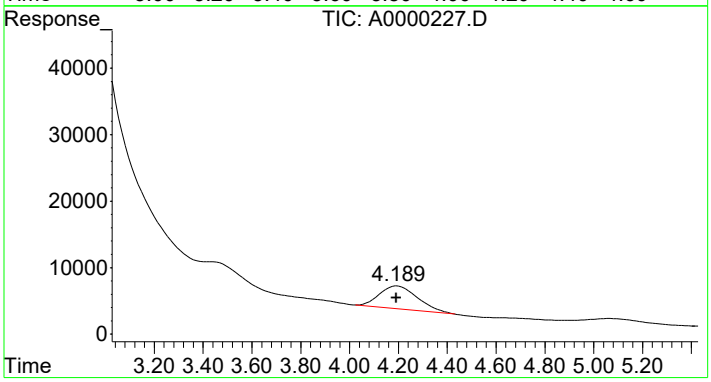
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.522 min
Response: 0
Conc: N.D.



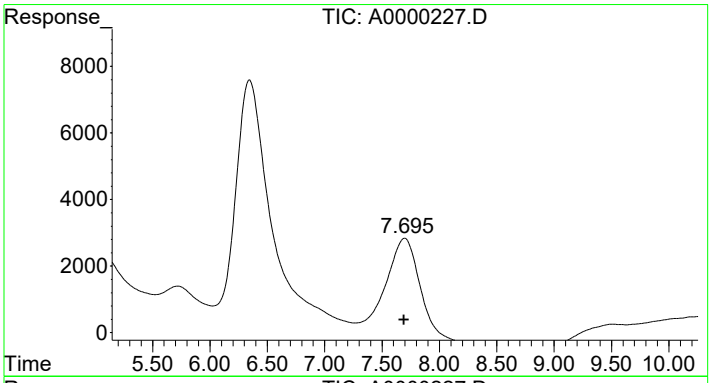
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.851 min
Response: 0
Conc: N.D.



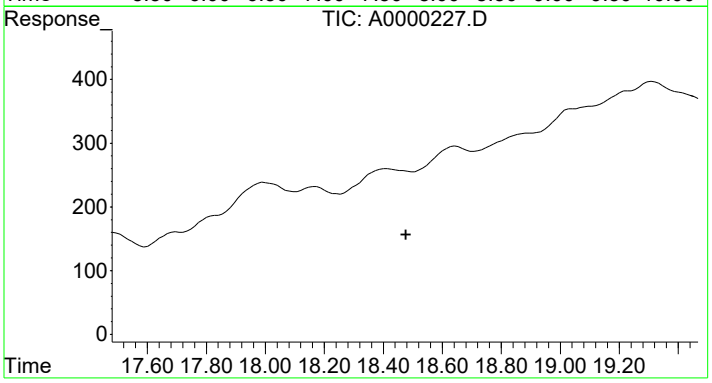
#4 Acetic Acid

R.T.: 4.189 min
Delta R.T.: -0.003 min
Response: 373068
Conc: 7.15 ppm m



#5 Propionic Acid

R.T.: 7.695 min
Delta R.T.: 0.004 min
Response: 541057
Conc: 10.15 ppm m



#6 Butyric Acid

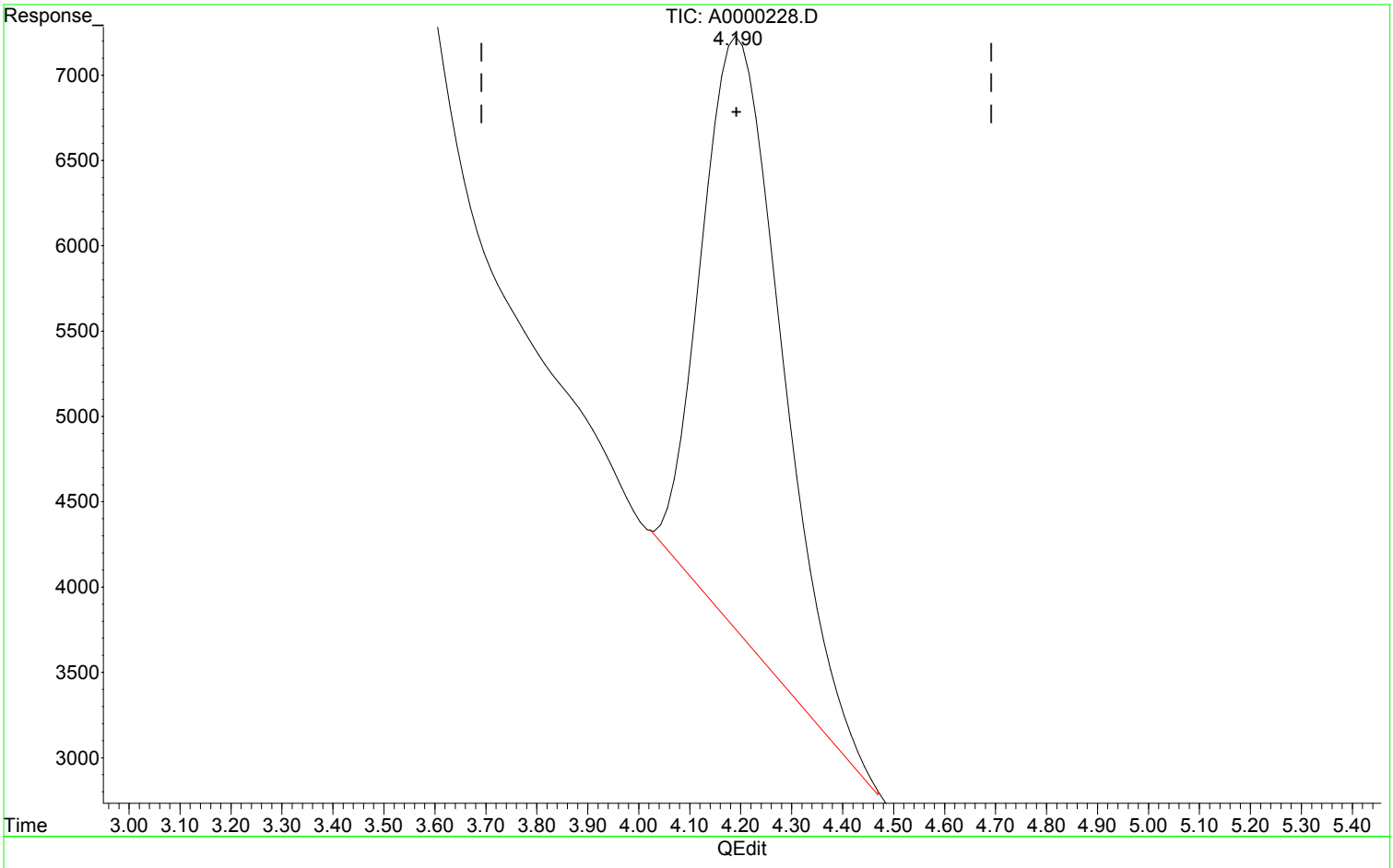
R.T.: 0.000 min
Exp R.T. : 18.477 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000228.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 11:20:27
Operator : AFelser
Sample : R2408140-013
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:35 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.190min 7.405 ppm m

response 386464

Manual Integration:

After

Poor integration.

09/05/24

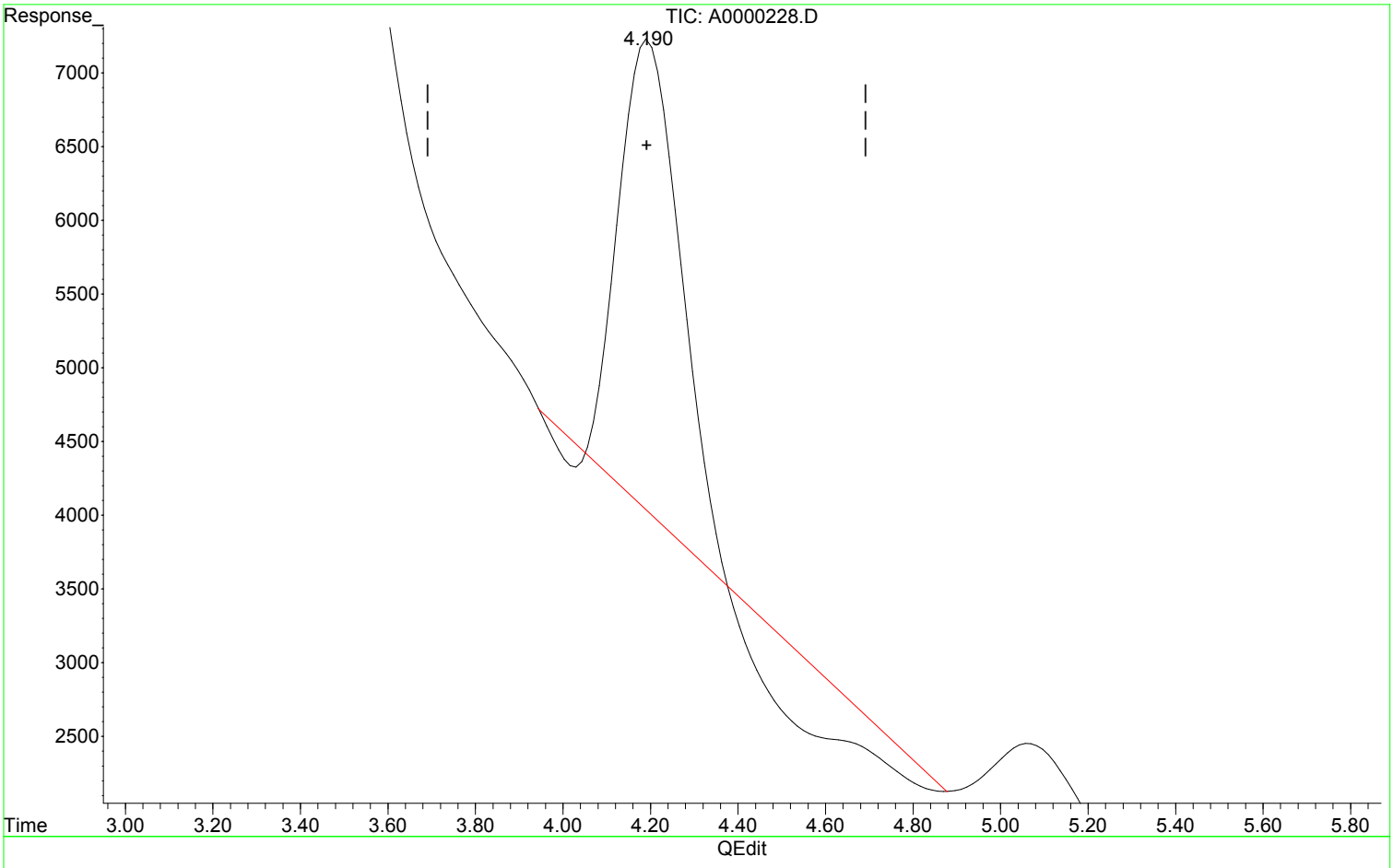
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000228.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 11:20:27
Operator : AFelser
Sample : R2408140-013
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:35 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.195min 4.513 ppm

response 235505

Manual Integration:

Before

09/05/24

(+) = Expected Retention Time

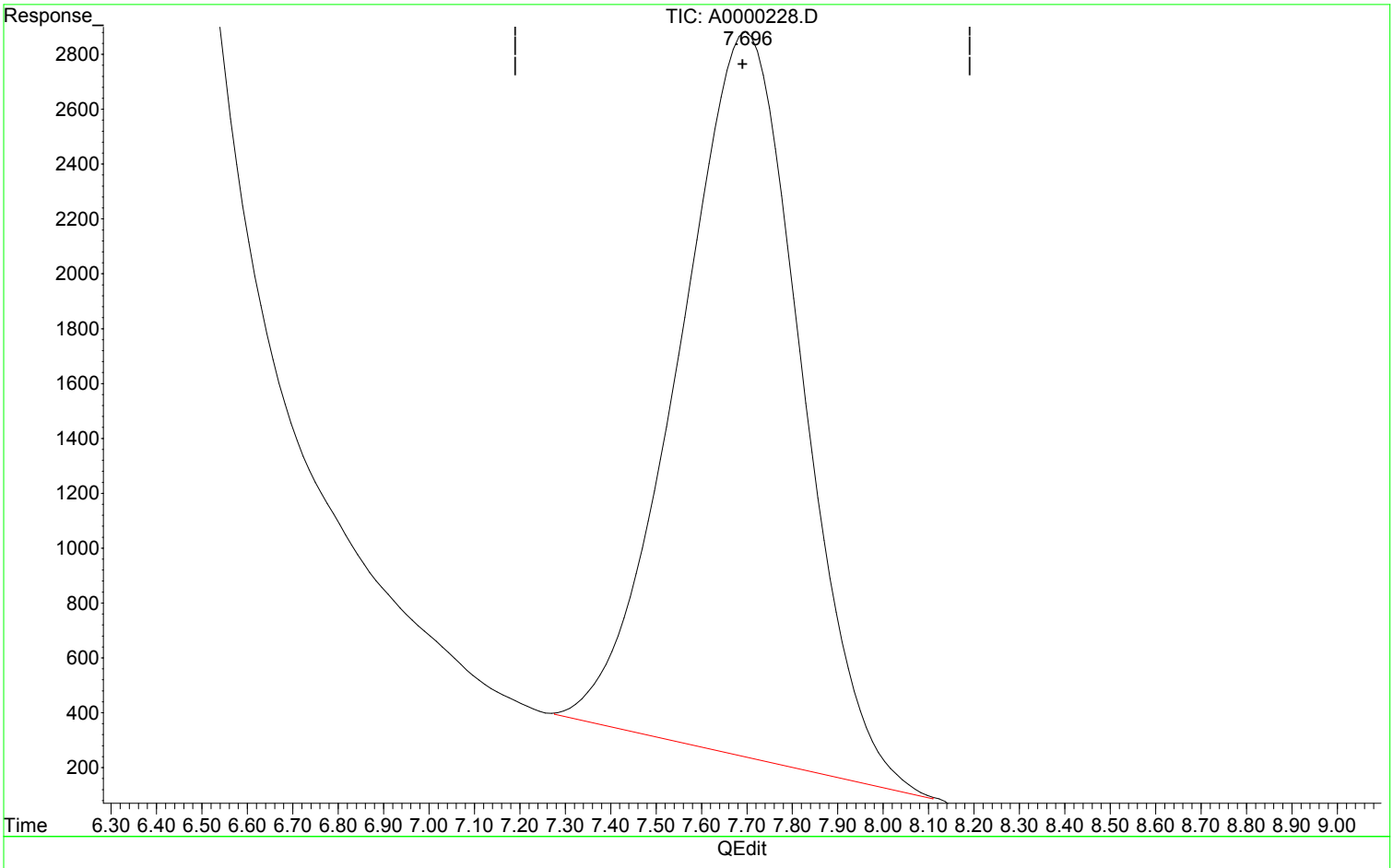
1st AF 09/09/24
2nd AM 09/09/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000228.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 11:20:27
Operator : AFelser
Sample : R2408140-013
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:35 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.696min 9.281 ppm m

response 494919

Manual Integration:

After

Poor integration.

09/05/24

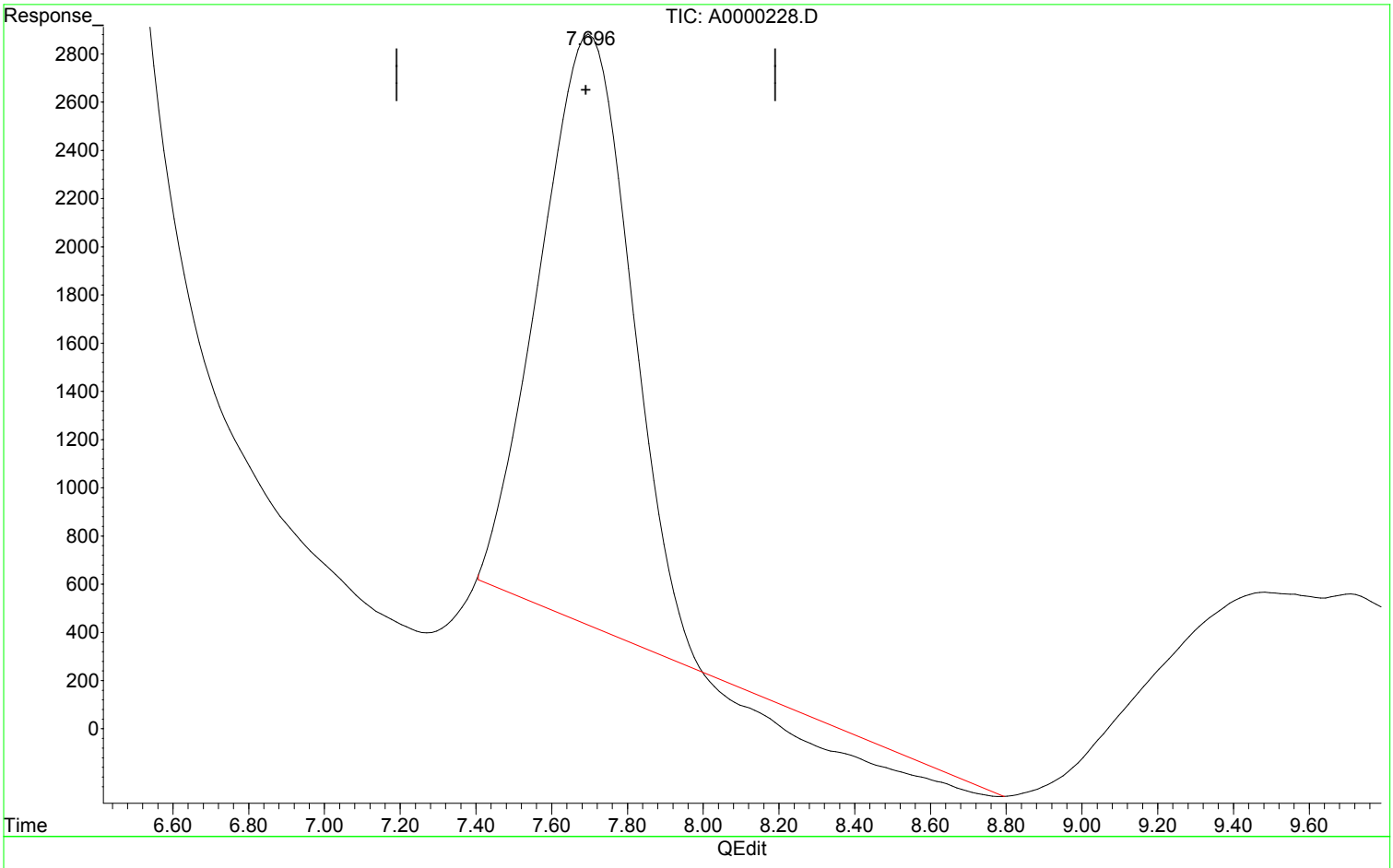
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000228.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 11:20:27
Operator : AFelser
Sample : R2408140-013
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:35 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.702min 7.249 ppm

response 386560

Manual Integration:

Before

09/05/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000228.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 11:20:27
Operator : AFelser
Sample : R2408140-013
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:35 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	0.000	0	N.D.	ppm	
2) T	Pyruvic acid	0.000	0	N.D.	ppm	
3) T	Lactic Acid	0.000	0	N.D.	ppm	
4) T	Acetic Acid	4.190	386464	7.405	ppm	m
5) T	Propionic Acid	7.696	494919	9.281	ppm	m
6) T	Butyric Acid	0.000	0	N.D.	ppm	

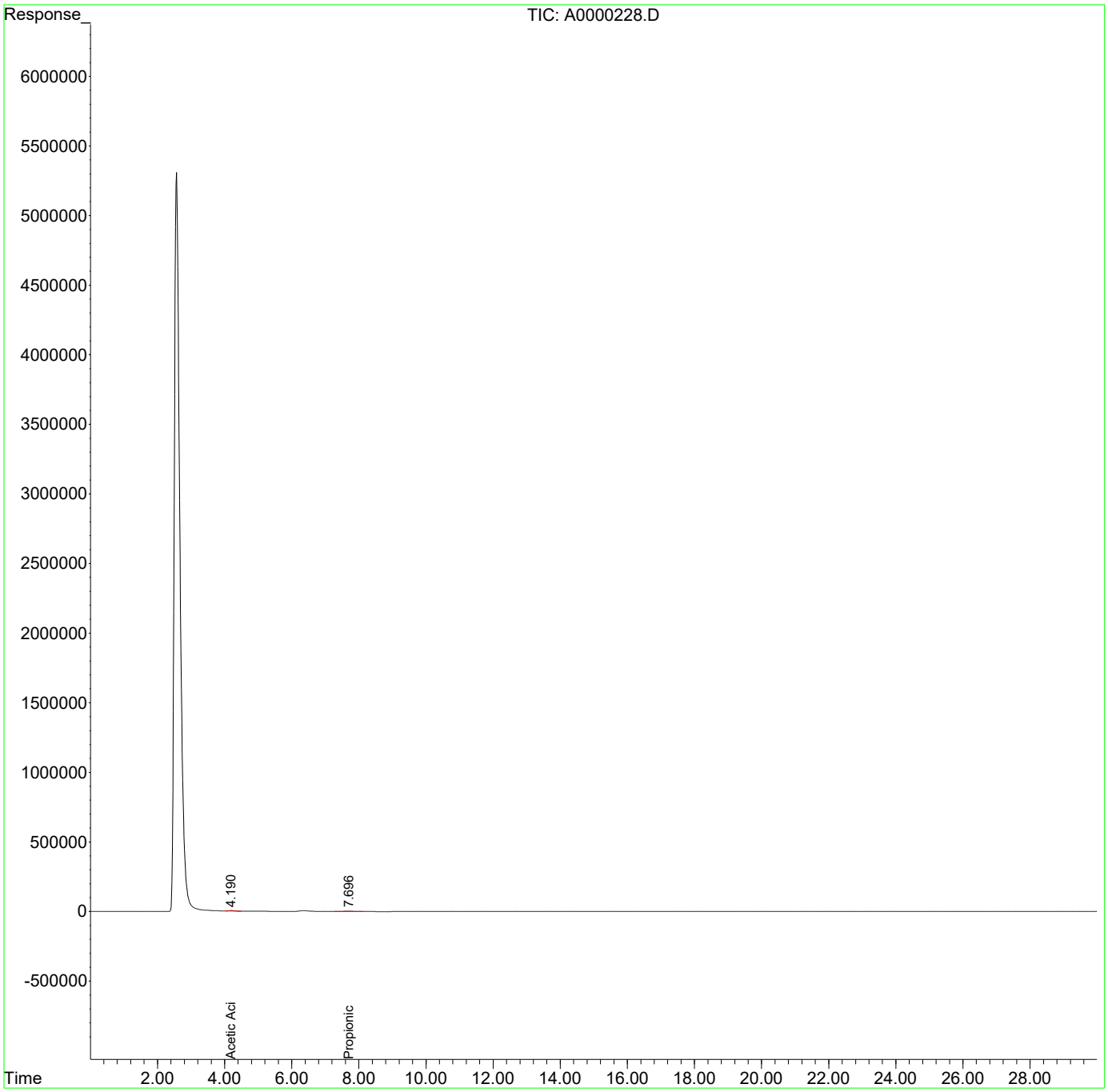
(f)=RT Delta > 1/2 Window (m)=manual int.

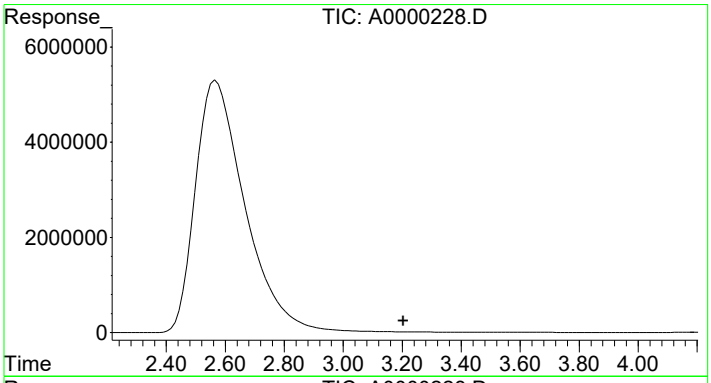
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000228.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 11:20:27
Operator : AFelser
Sample : R2408140-013
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:35 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

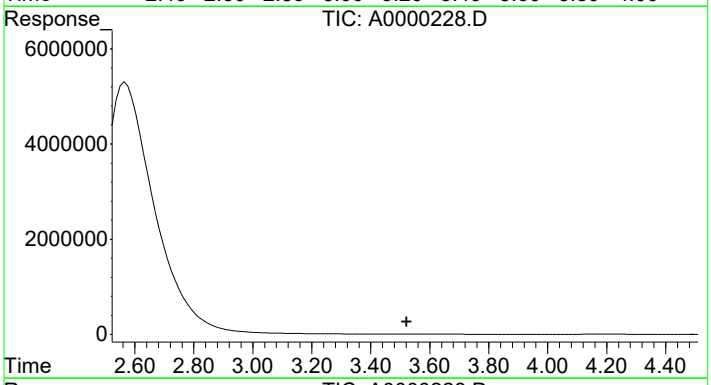
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





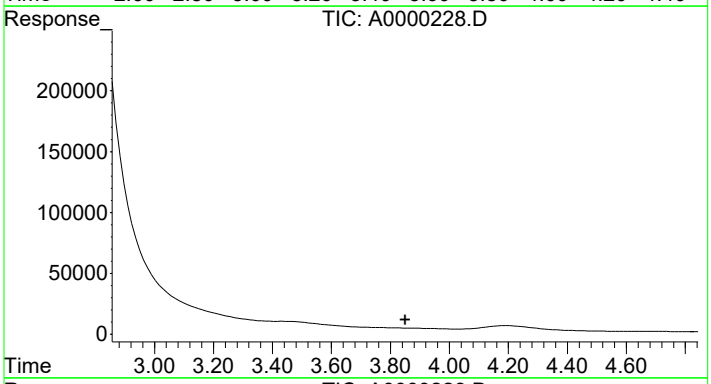
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.204 min
Response: 0
Conc: N.D.



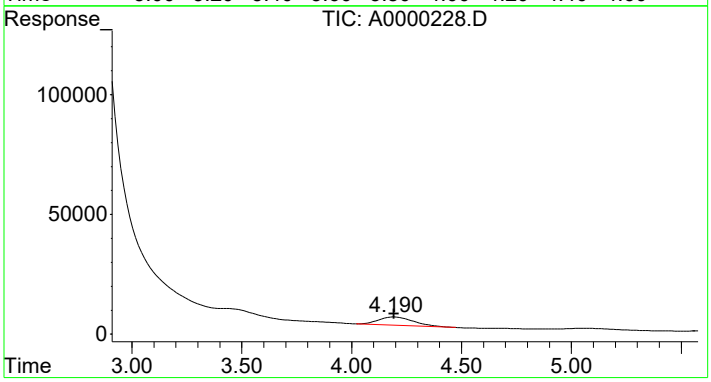
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.522 min
Response: 0
Conc: N.D.



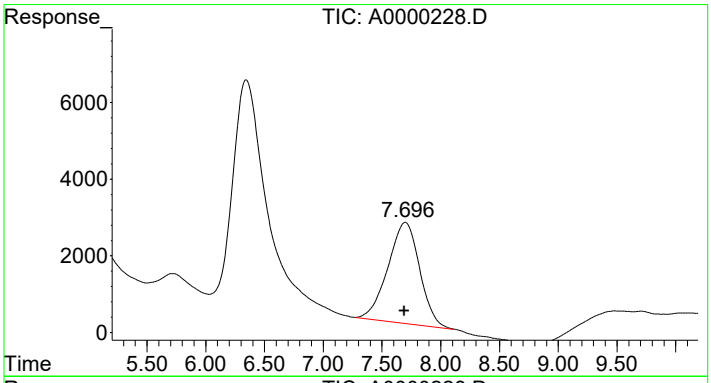
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.851 min
Response: 0
Conc: N.D.



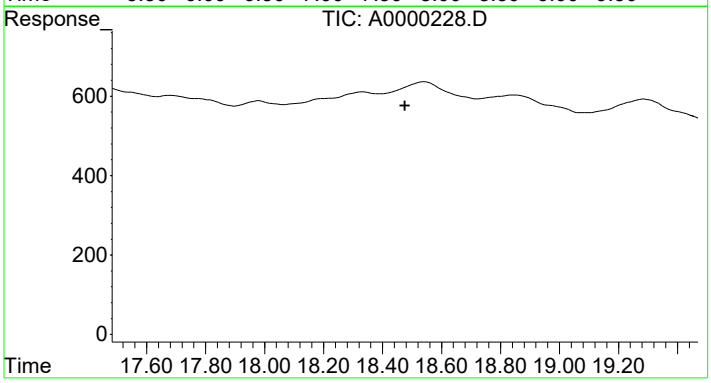
#4 Acetic Acid

R.T.: 4.190 min
Delta R.T.: -0.002 min
Response: 386464
Conc: 7.41 ppm m



#5 Propionic Acid

R.T.: 7.696 min
Delta R.T.: 0.005 min
Response: 494919
Conc: 9.28 ppm m



#6 Butyric Acid

R.T.: 0.000 min
Exp R.T. : 18.477 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000203.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 22:05:59
Operator : AFelser
Sample : MB
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:08 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) t	Formic acid	0.000	0	N.D.	ppm
2) T	Pyruvic acid	0.000	0	N.D.	ppm
3) T	Lactic Acid	0.000	0	N.D.	ppm
4) T	Acetic Acid	0.000	0	N.D.	ppm
5) T	Propionic Acid	0.000	0	N.D.	ppm
6) T	Butyric Acid	0.000	0	N.D.	ppm

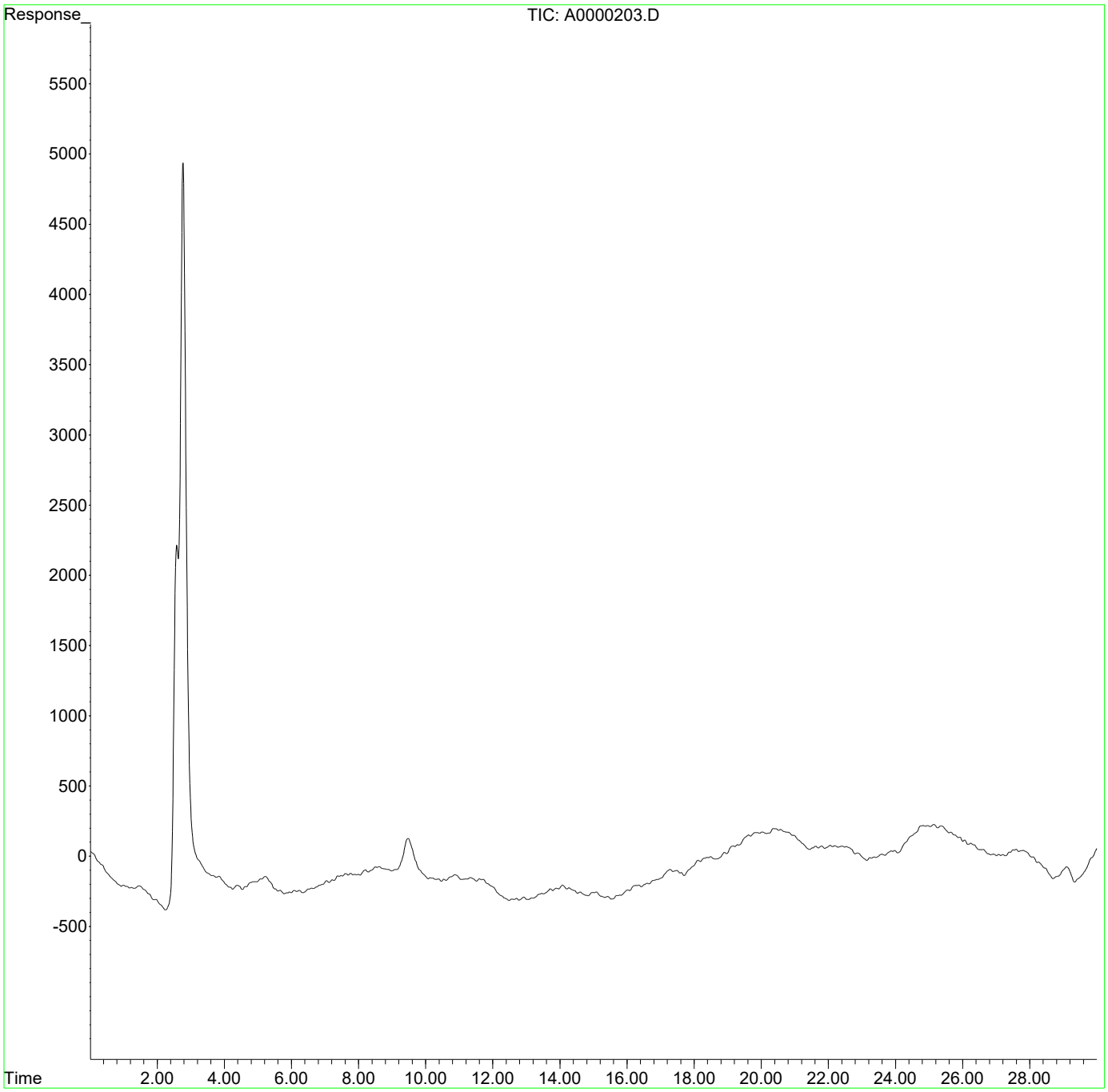
(f)=RT Delta > 1/2 Window (m)=manual int.

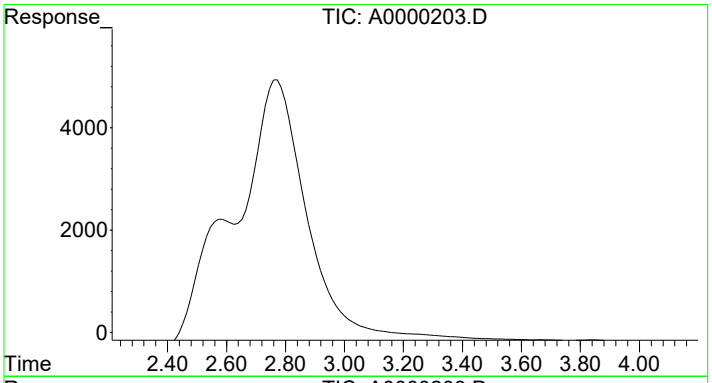
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000203.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 22:05:59
Operator : AFelser
Sample : MB
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:08 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

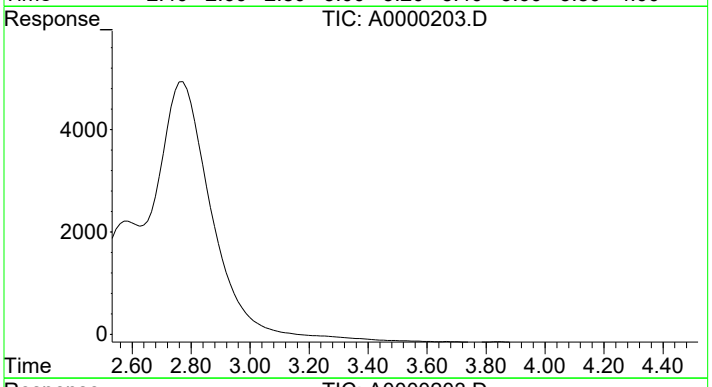
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





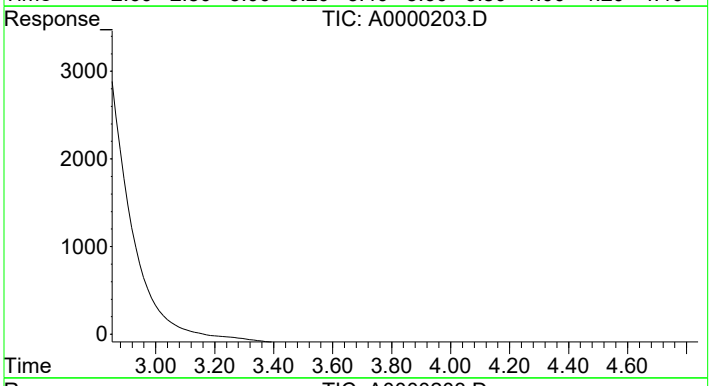
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.204 min
Response: 0
Conc: N.D.



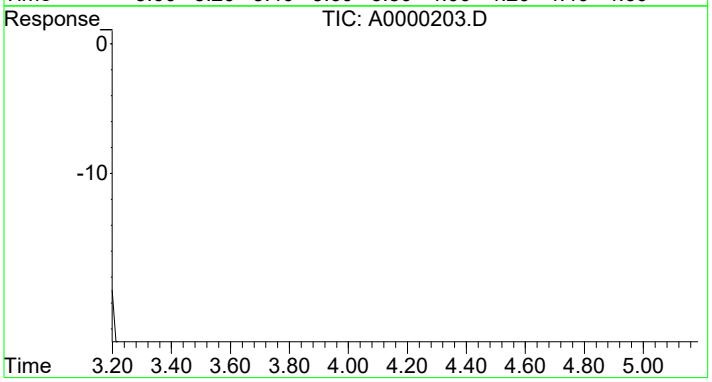
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.523 min
Response: 0
Conc: N.D.



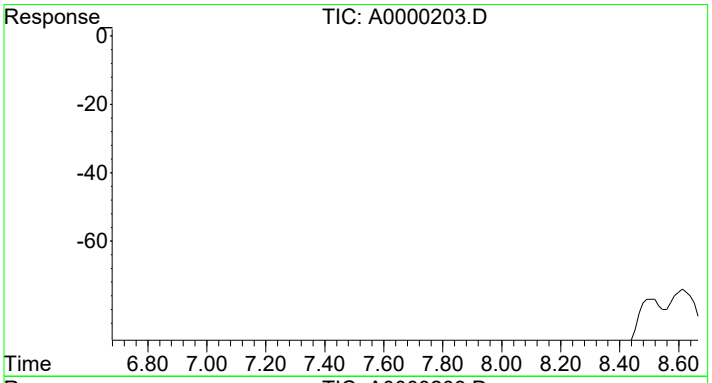
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.850 min
Response: 0
Conc: N.D.



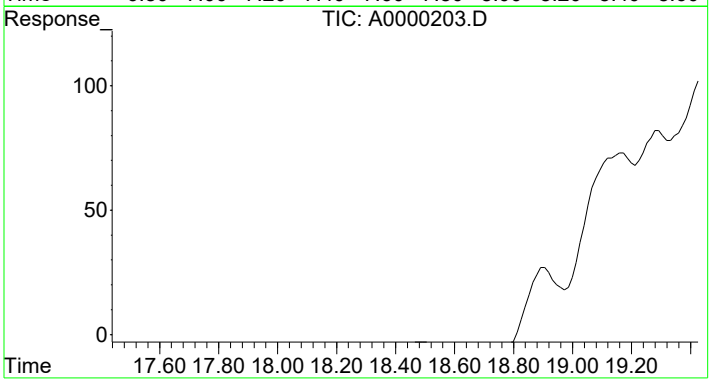
#4 Acetic Acid

R.T.: 0.000 min
Exp R.T. : 4.189 min
Response: 0
Conc: N.D.



#5 Propionic Acid

R.T.: 0.000 min
Exp R.T. : 7.676 min
Response: 0
Conc: N.D.



#6 Butyric Acid

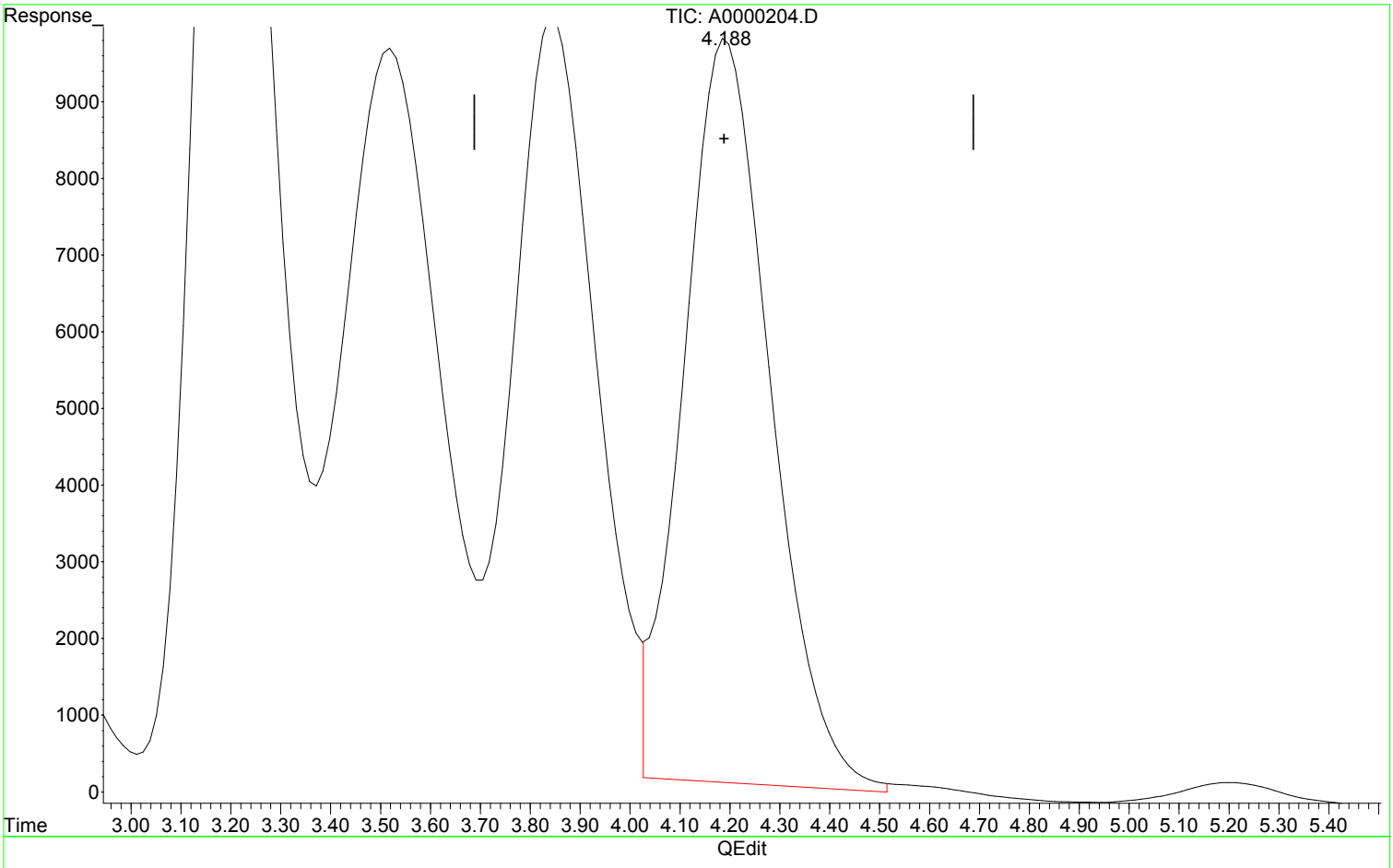
R.T.: 0.000 min
Exp R.T. : 18.426 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000204.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 22:37:46
Operator : AFelser
Sample : LCS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:10 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.188min 22.535 ppm m

response 1176051

Manual Integration:

After

Poor integration.

09/05/24

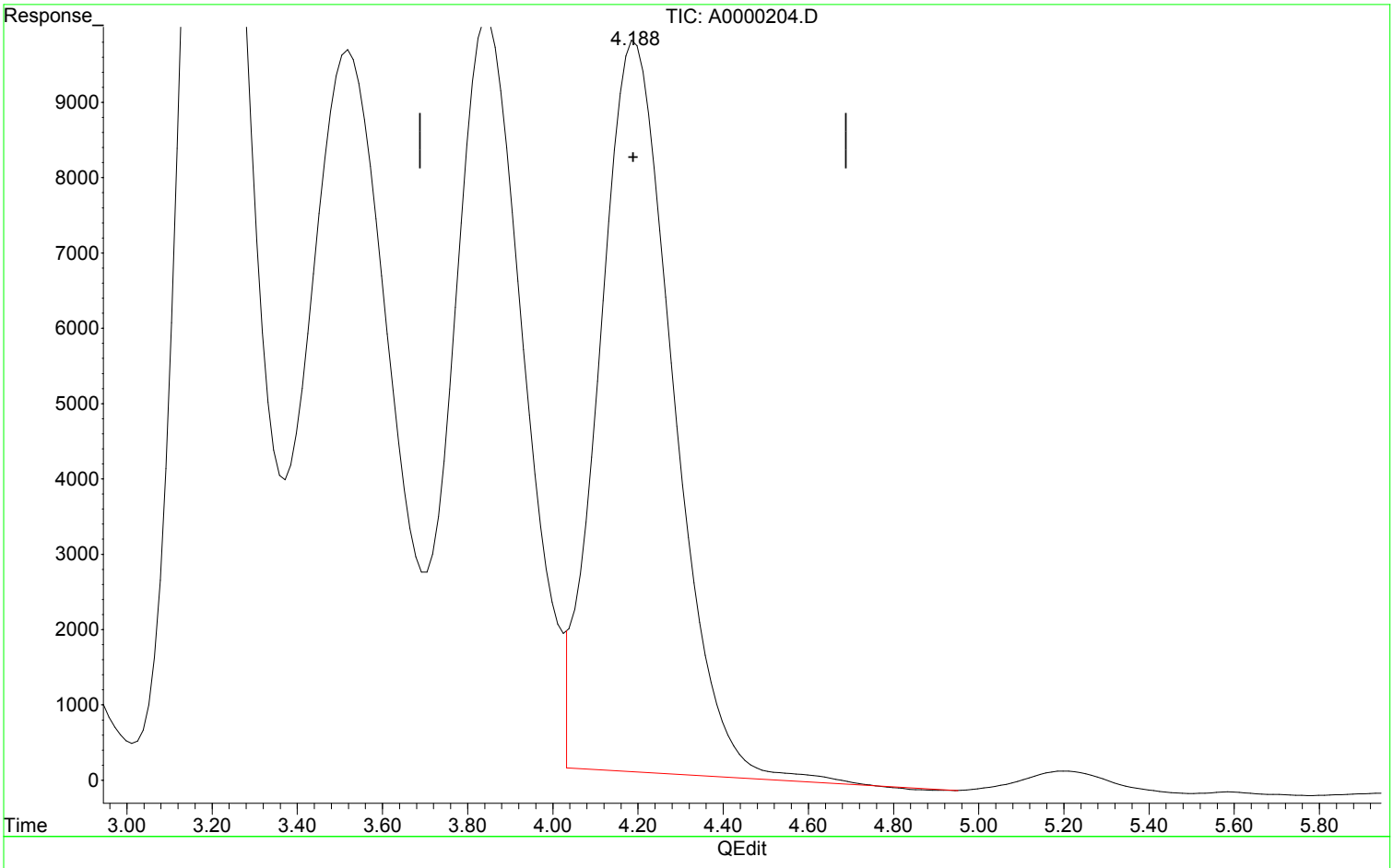
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000204.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 22:37:46
Operator : AFelser
Sample : LCS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:10 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.194min 22.737 ppm

response 1186607

Manual Integration:

Before

09/05/24

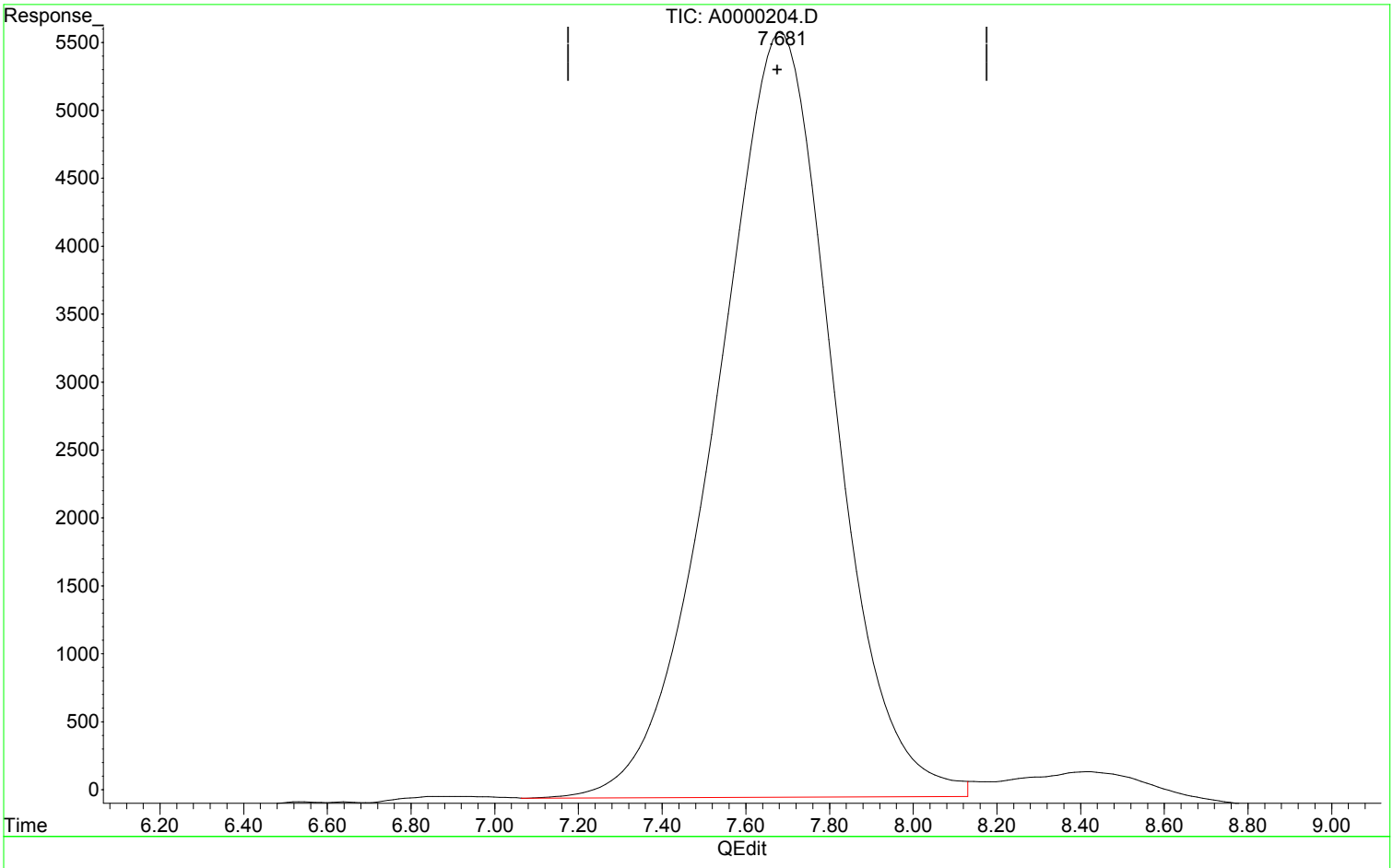
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000204.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 22:37:46
Operator : AFelser
Sample : LCS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:10 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.681min 20.401 ppm m

response 1087919

Manual Integration:

After

Poor integration.

09/05/24

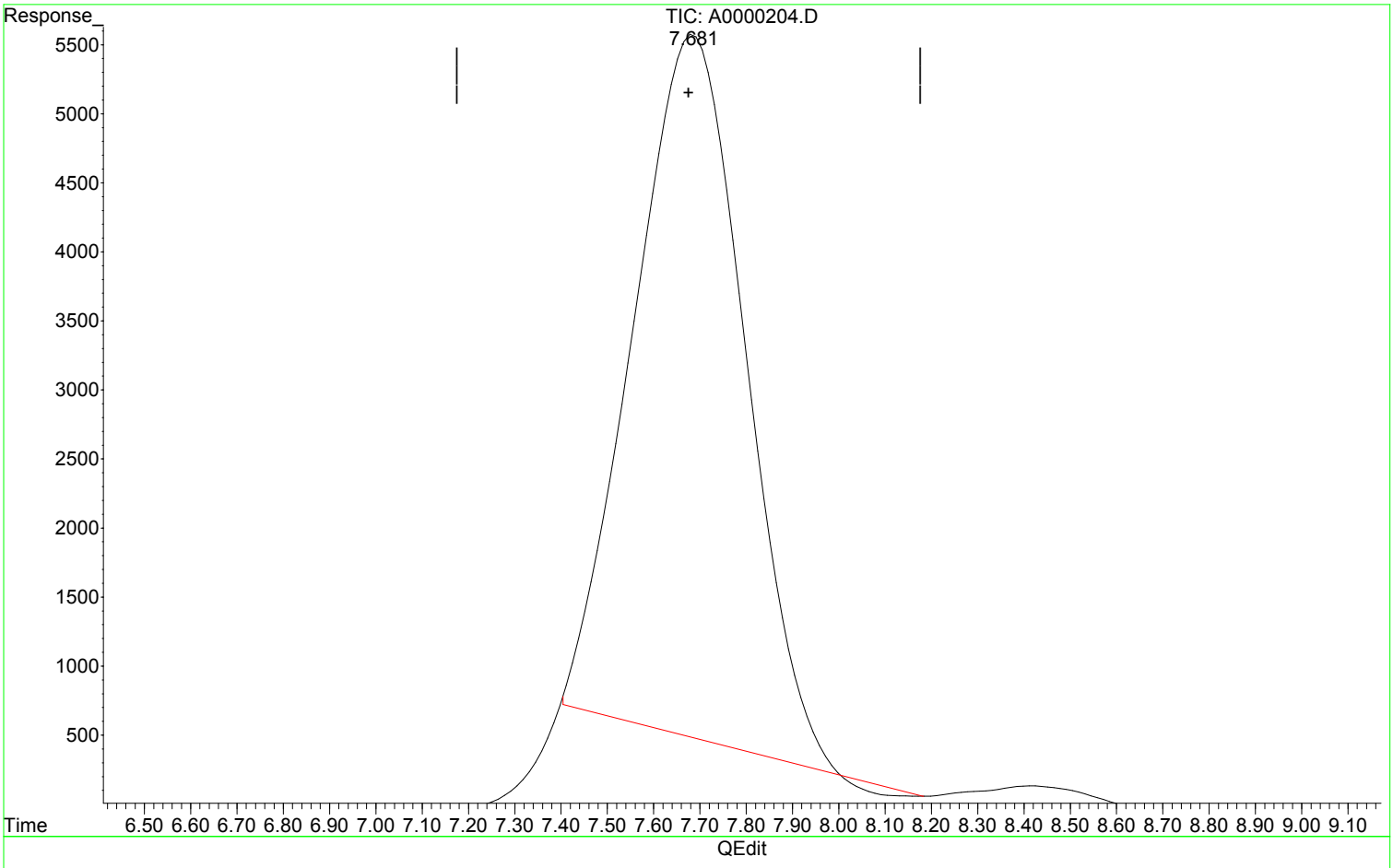
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000204.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 22:37:46
Operator : AFelser
Sample : LCS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:10 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.687min 15.994 ppm

response 852870

Manual Integration:

Before

09/05/24

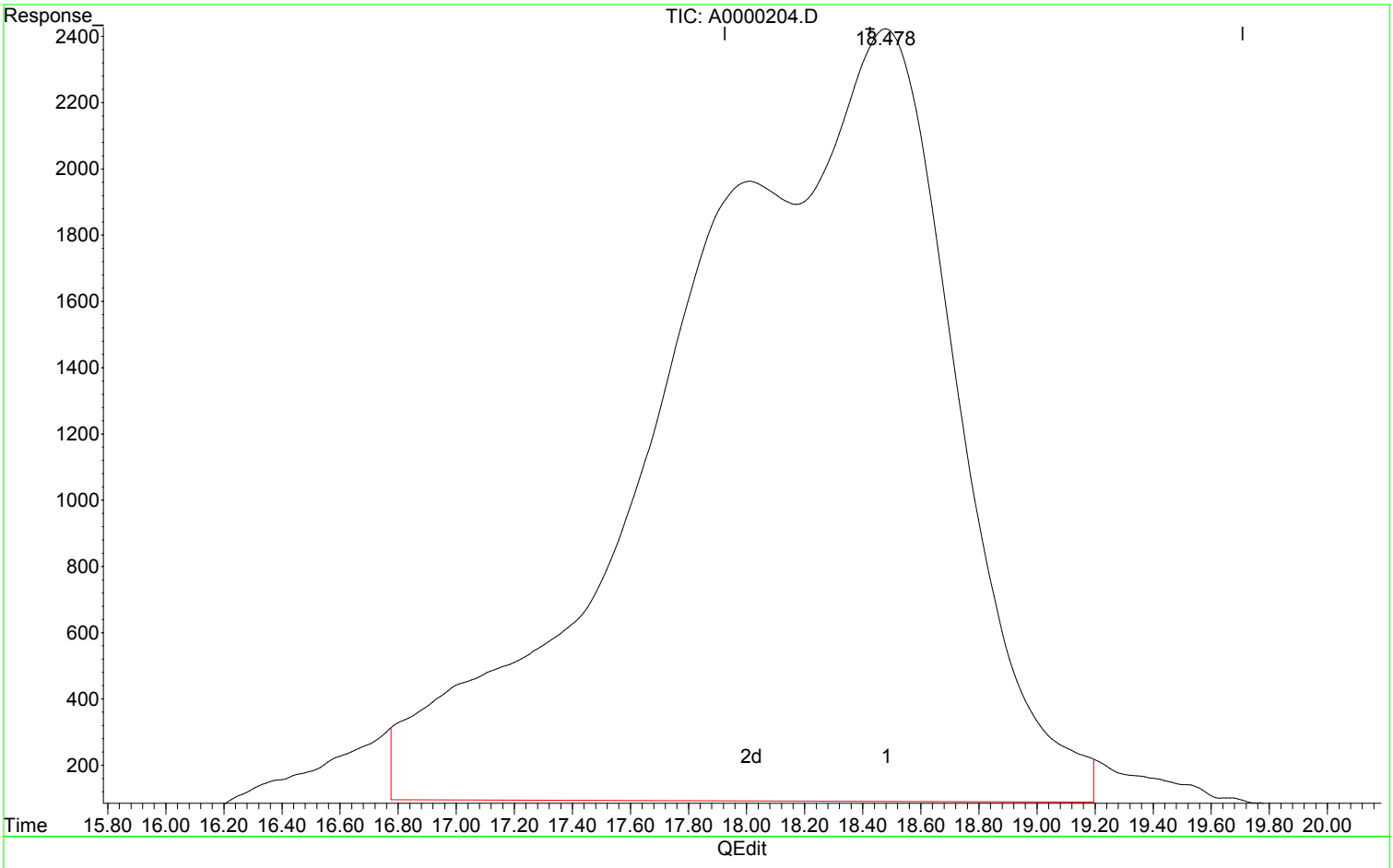
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000204.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 22:37:46
Operator : AFelser
Sample : LCS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:10 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.478min 20.777 ppm m

response 1548118

Manual Integration:

After

Poor integration.

09/05/24

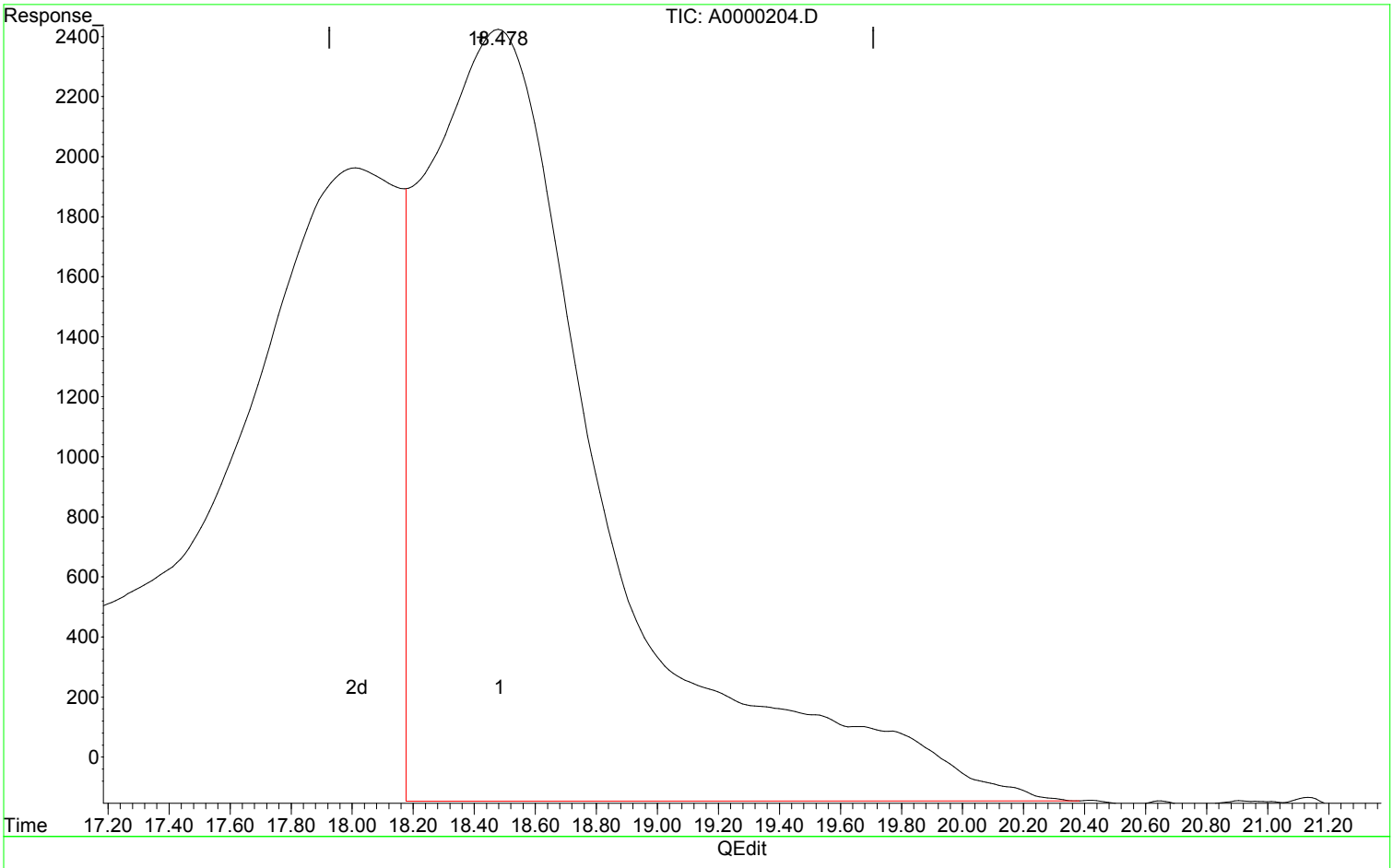
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000204.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 22:37:46
Operator : AFelser
Sample : LCS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:10 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.483min 14.288 ppm

response 1064580

Manual Integration:

Before

09/05/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000204.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 22:37:46
Operator : AFelser
Sample : LCS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:10 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.202	1845870	21.269	ppm	
2) T	Pyruvic acid	3.522	1226013	2.239	ppm	
3) T	Lactic Acid	3.848	1142565	22.607	ppm	
4) T	Acetic Acid	4.188	1176051	22.535	ppm	m
5) T	Propionic Acid	7.681	1087919	20.401	ppm	m
6) T	Butyric Acid	18.478	1548118	20.777	ppm	m

(f)=RT Delta > 1/2 Window (m)=manual int.

1st AF 09/09/24
2nd AM 09/09/24

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000204.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 22:37:46
Operator : AFelser
Sample : LCS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:10 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
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QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
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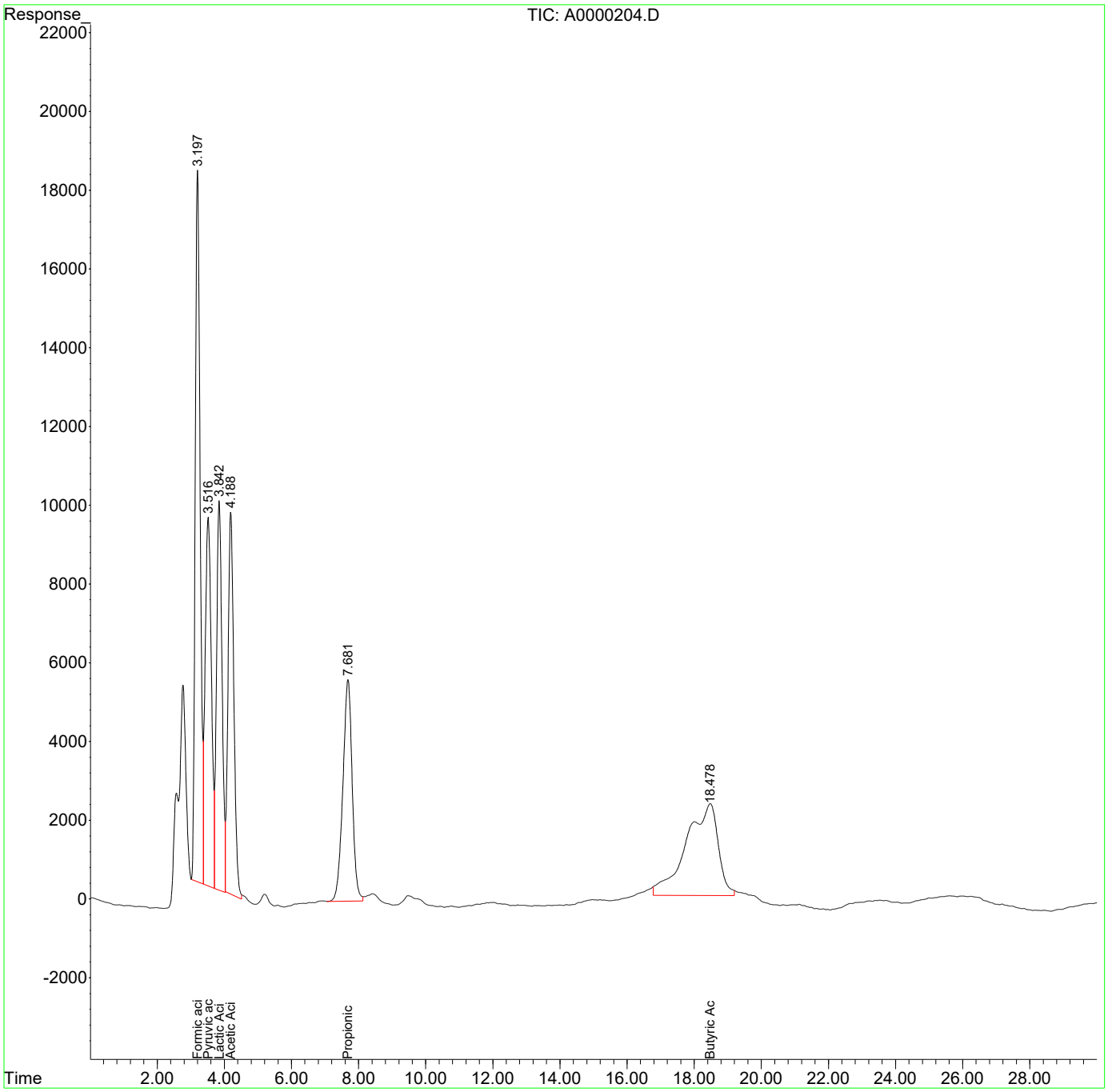
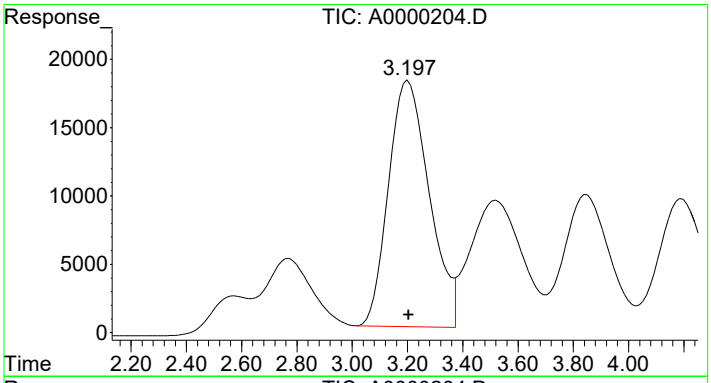
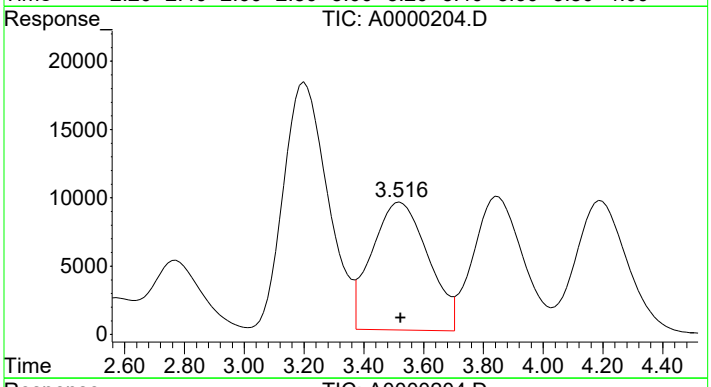
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





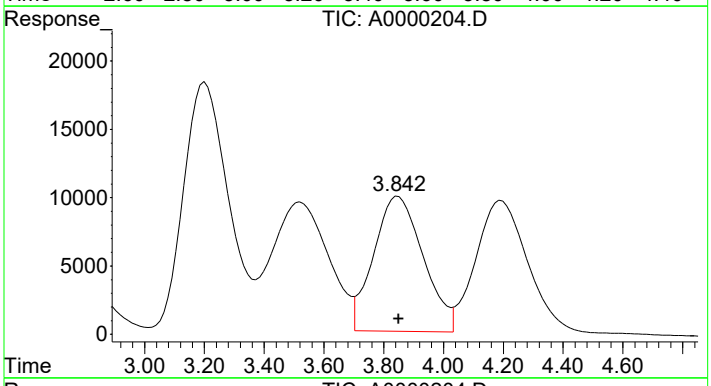
#1 Formic acid

R.T.: 3.202 min
Delta R.T.: -0.002 min
Response: 1845870
Conc: 21.27 ppm



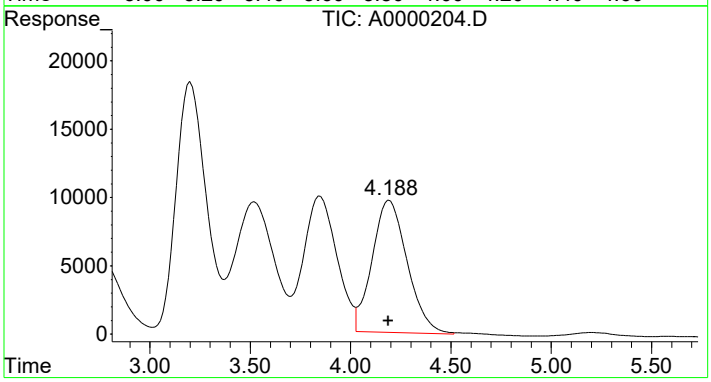
#2 Pyruvic acid

R.T.: 3.522 min
Delta R.T.: -0.002 min
Response: 1226013
Conc: 2.24 ppm



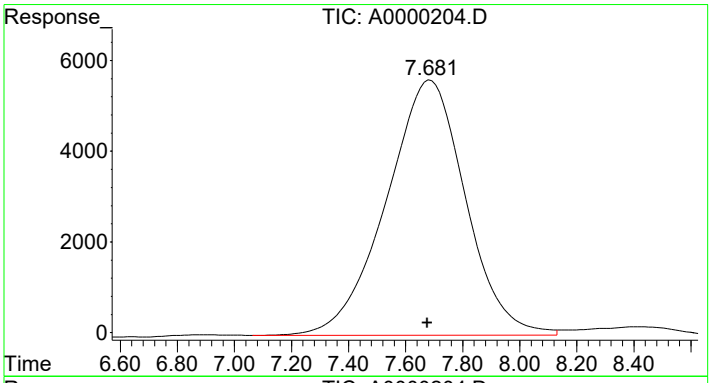
#3 Lactic Acid

R.T.: 3.848 min
Delta R.T.: -0.001 min
Response: 1142565
Conc: 22.61 ppm



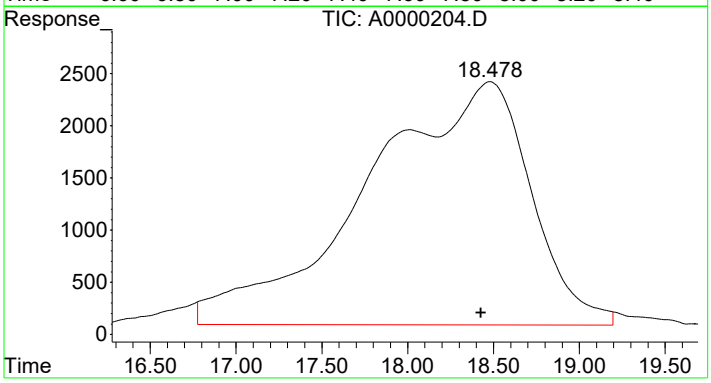
#4 Acetic Acid

R.T.: 4.188 min
Delta R.T.: -0.001 min
Response: 1176051
Conc: 22.53 ppm m



#5 Propionic Acid

R.T.: 7.681 min
Delta R.T.: 0.005 min
Response: 1087919
Conc: 20.40 ppm m



#6 Butyric Acid

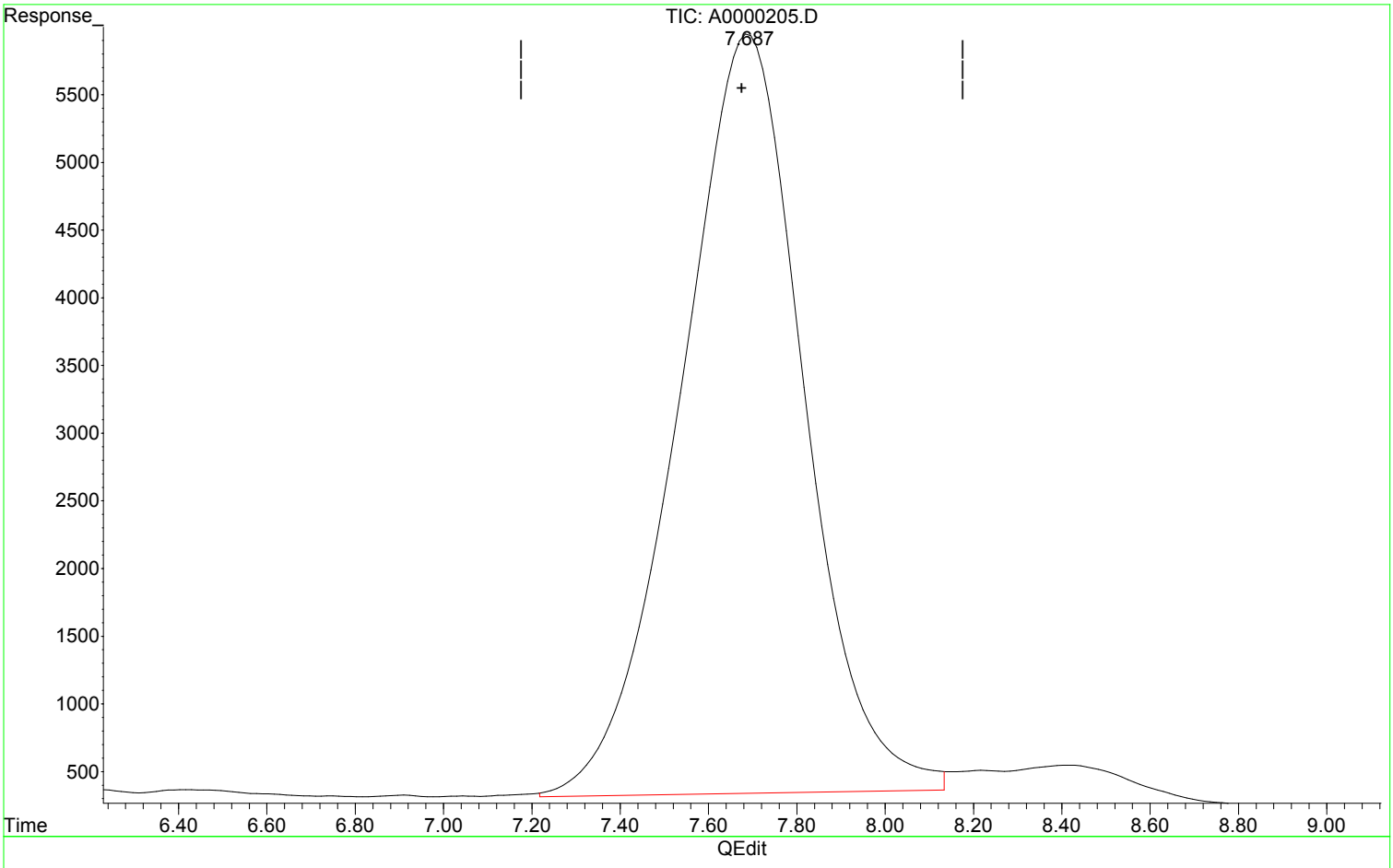
R.T.: 18.478 min
Delta R.T.: 0.052 min
Response: 1548118
Conc: 20.78 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000205.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 23:09:34
Operator : AFelser
Sample : DLCS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:12 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.687min 20.424 ppm m

response 1089127

Manual Integration:

After

Poor integration.

09/05/24

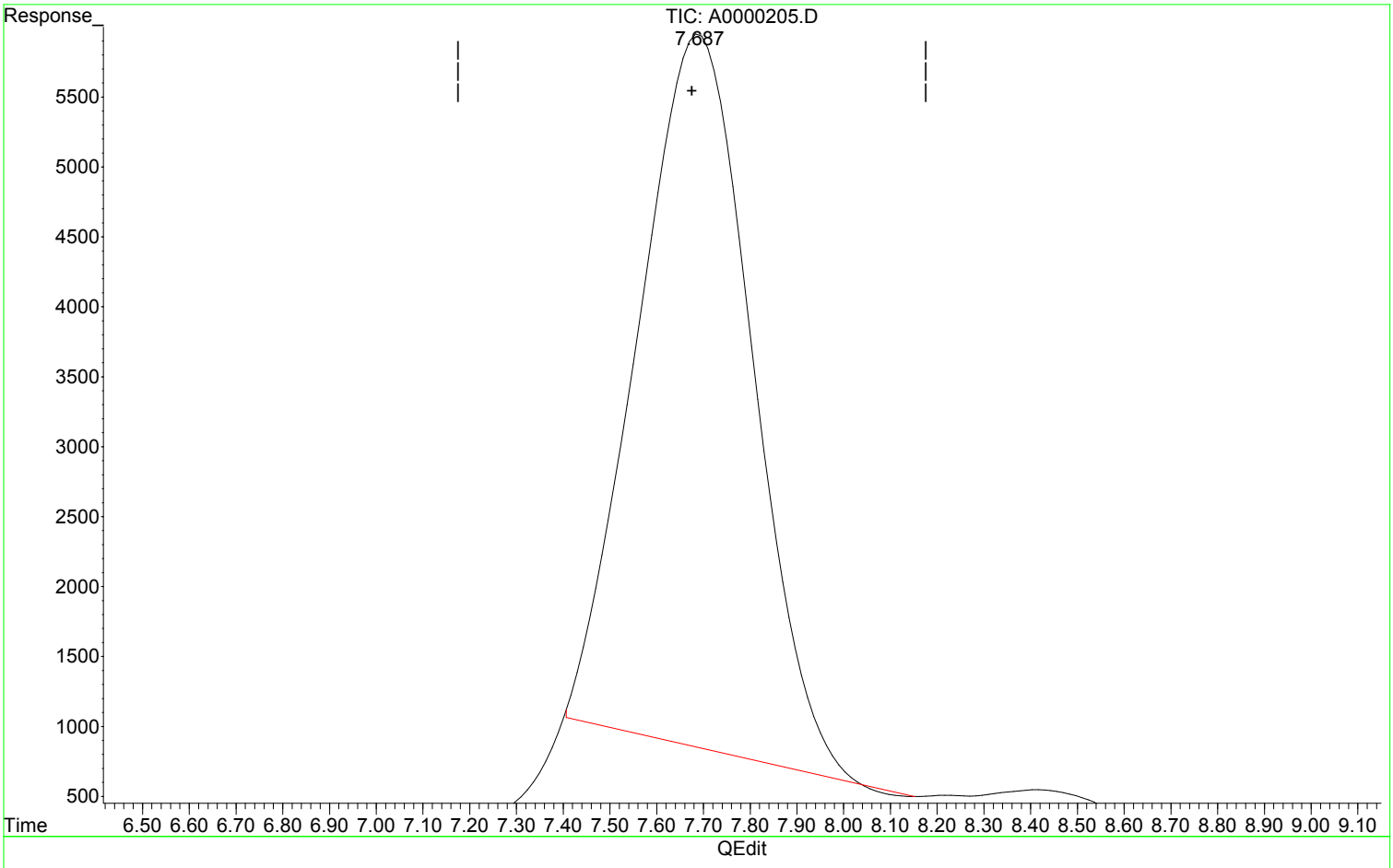
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000205.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 23:09:34
Operator : AFelser
Sample : DLCS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:12 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.692min 16.291 ppm

response 868750

Manual Integration:

Before

09/05/24

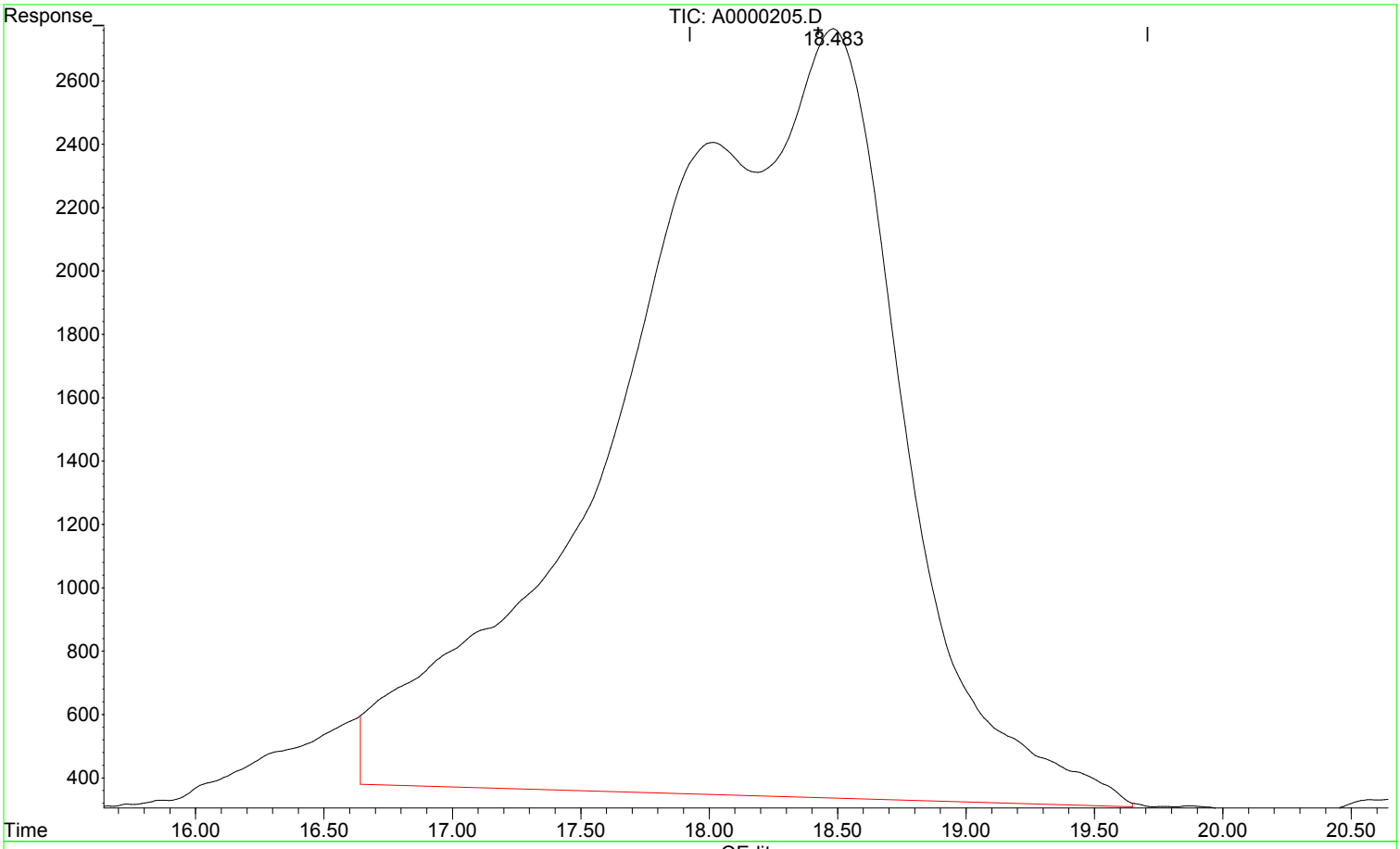
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000205.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 23:09:34
Operator : AFelser
Sample : DLCS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:12 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.483min 24.004 ppm m

response 1788493

Manual Integration:

After

Poor integration.

09/05/24

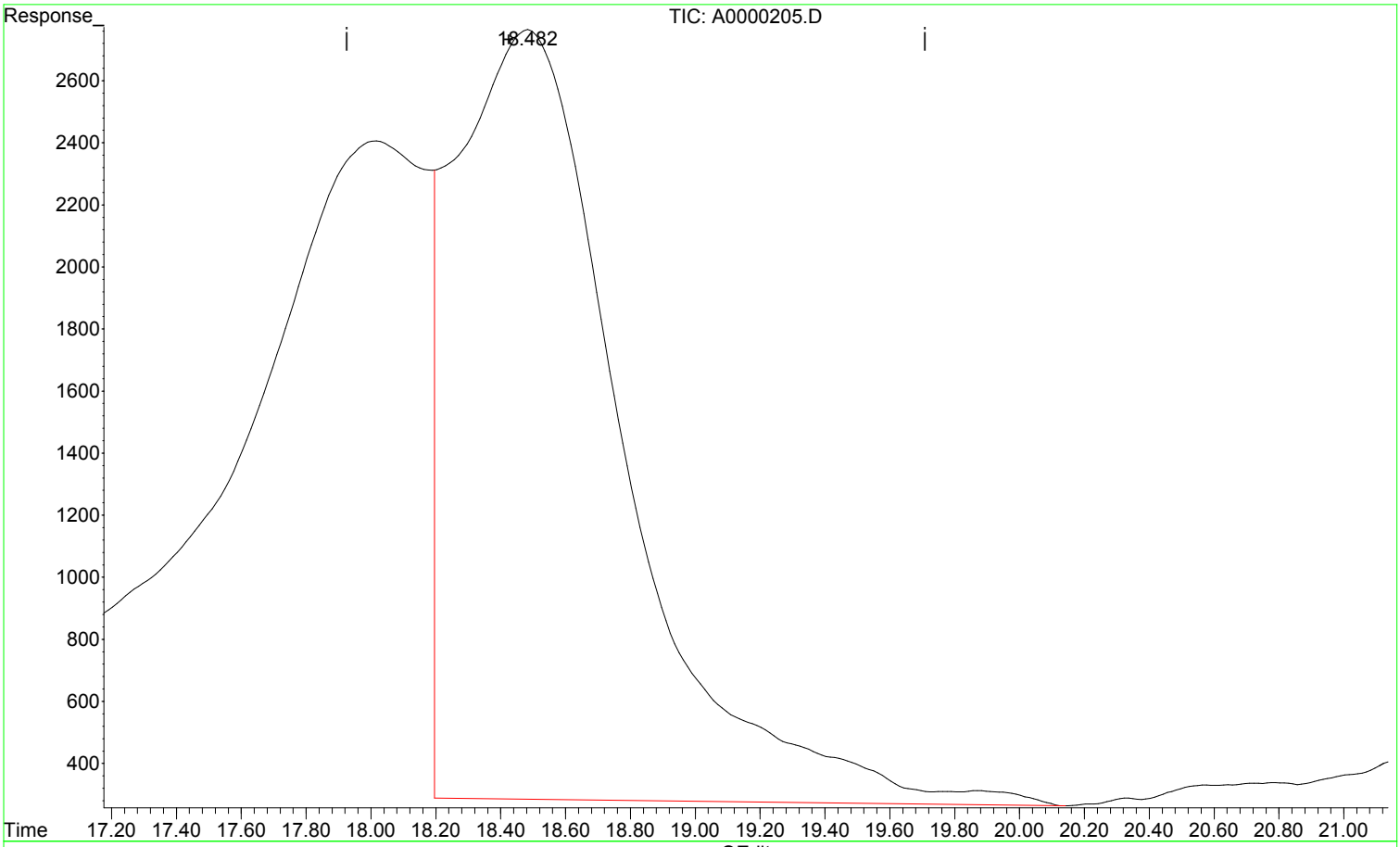
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000205.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 23:09:34
Operator : AFelser
Sample : DLCS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:12 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.488min 12.256 ppm

response 913193

Manual Integration:

Before

09/05/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000205.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 23:09:34
Operator : AFelser
Sample : DLCS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:12 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.203	1832130	21.110	ppm	
2) T	Pyruvic acid	3.522	1203421	2.199	ppm	
3) T	Lactic Acid	3.850	1128570	22.337	ppm	
4) T	Acetic Acid	4.195	1179583	22.602	ppm	
5) T	Propionic Acid	7.687	1089127	20.424	ppm	m
6) T	Butyric Acid	18.483	1788493	24.004	ppm	m

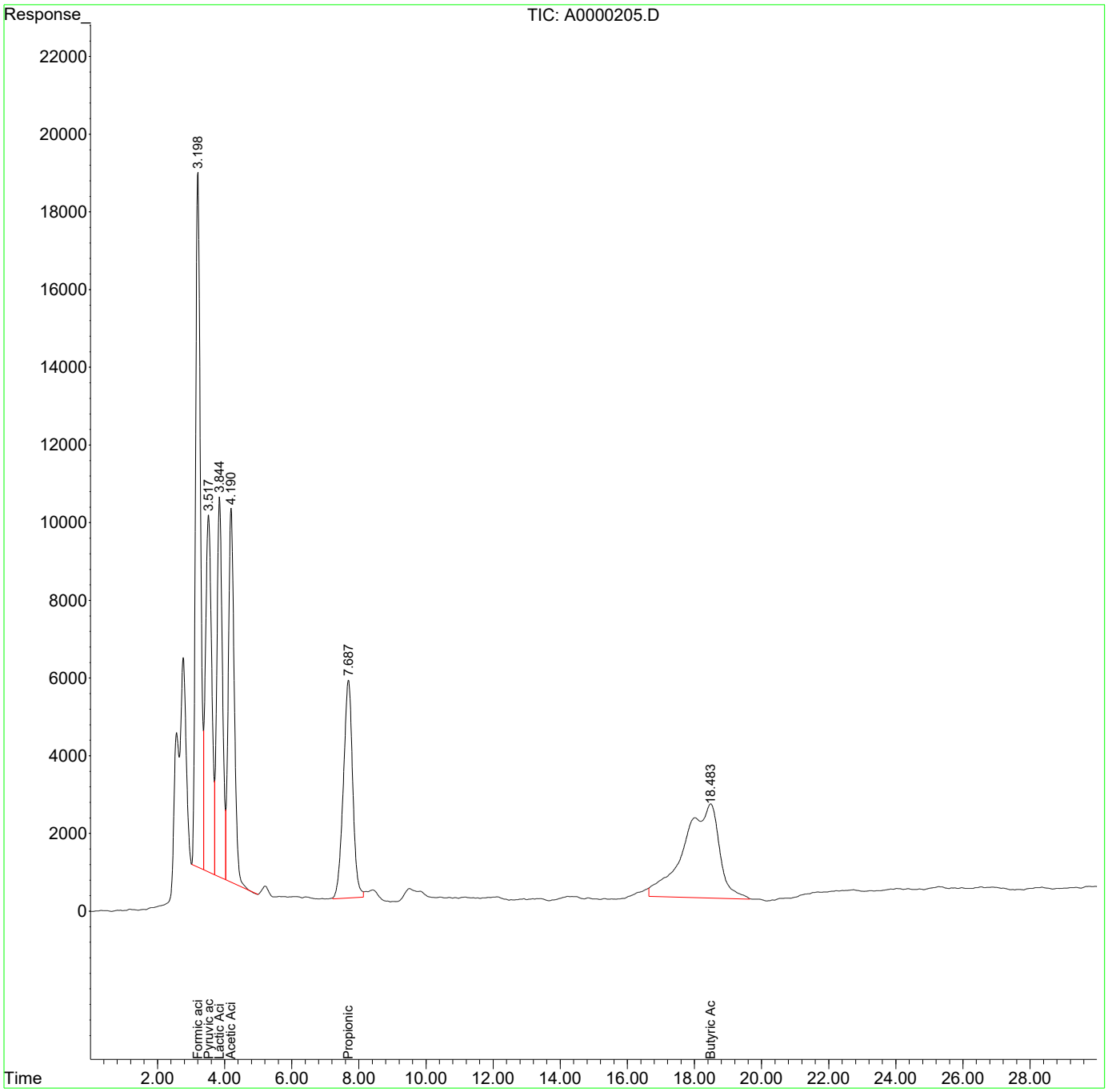
(f)=RT Delta > 1/2 Window (m)=manual int.

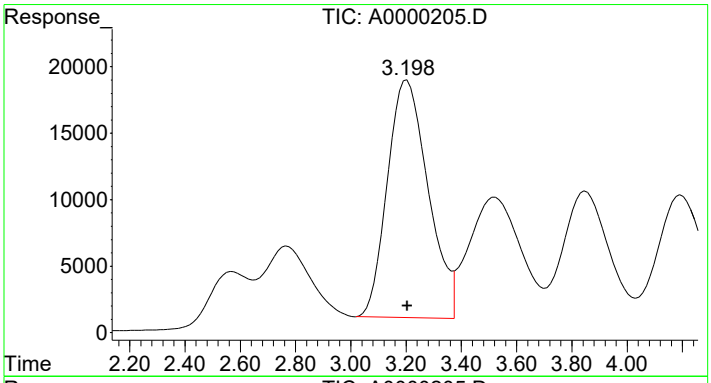
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000205.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 23:09:34
Operator : AFelser
Sample : DLCS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:12 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

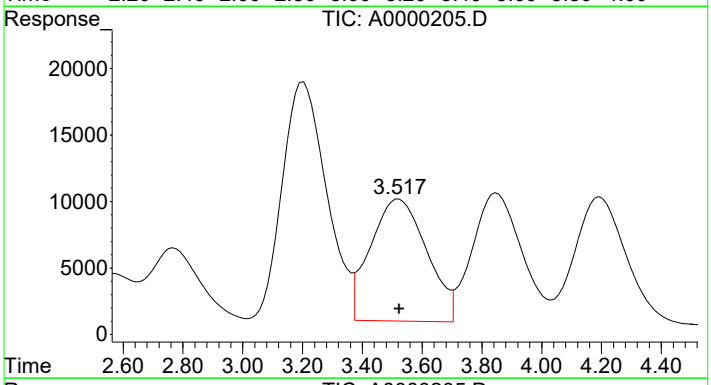
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





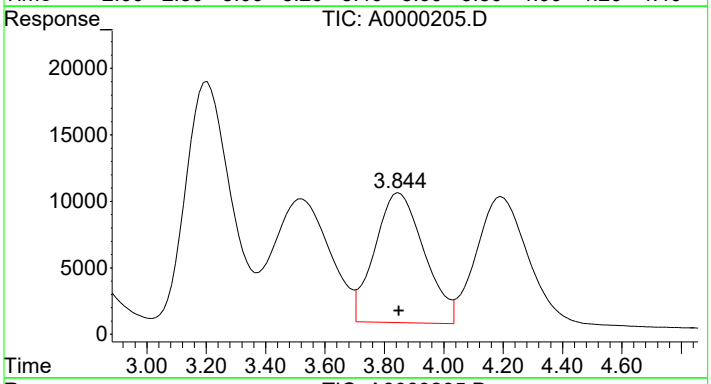
#1 Formic acid

R.T.: 3.203 min
Delta R.T.: 0.000 min
Response: 1832130
Conc: 21.11 ppm



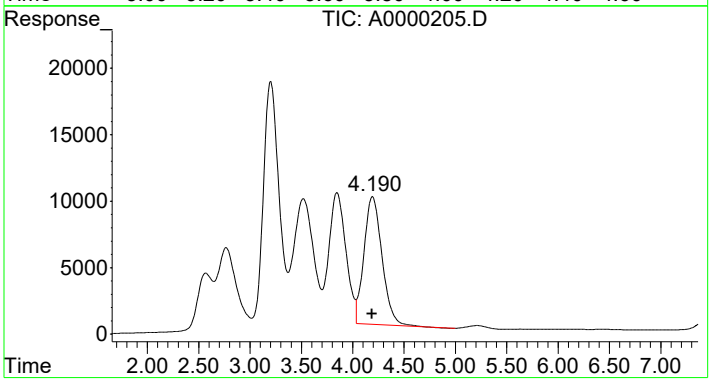
#2 Pyruvic acid

R.T.: 3.522 min
Delta R.T.: 0.000 min
Response: 1203421
Conc: 2.20 ppm



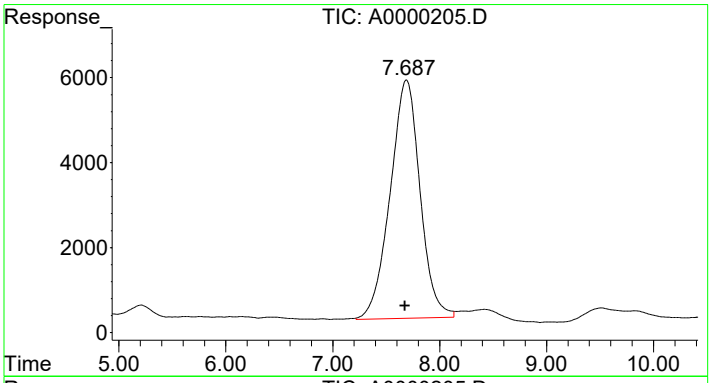
#3 Lactic Acid

R.T.: 3.850 min
Delta R.T.: 0.000 min
Response: 1128570
Conc: 22.34 ppm



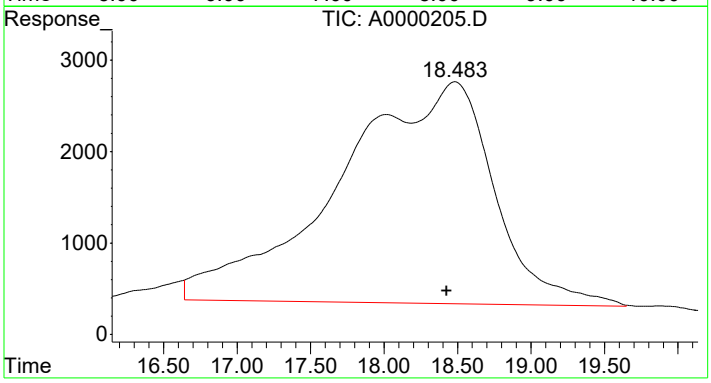
#4 Acetic Acid

R.T.: 4.195 min
Delta R.T.: 0.007 min
Response: 1179583
Conc: 22.60 ppm



#5 Propionic Acid

R.T.: 7.687 min
Delta R.T.: 0.011 min
Response: 1089127
Conc: 20.42 ppm m



#6 Butyric Acid

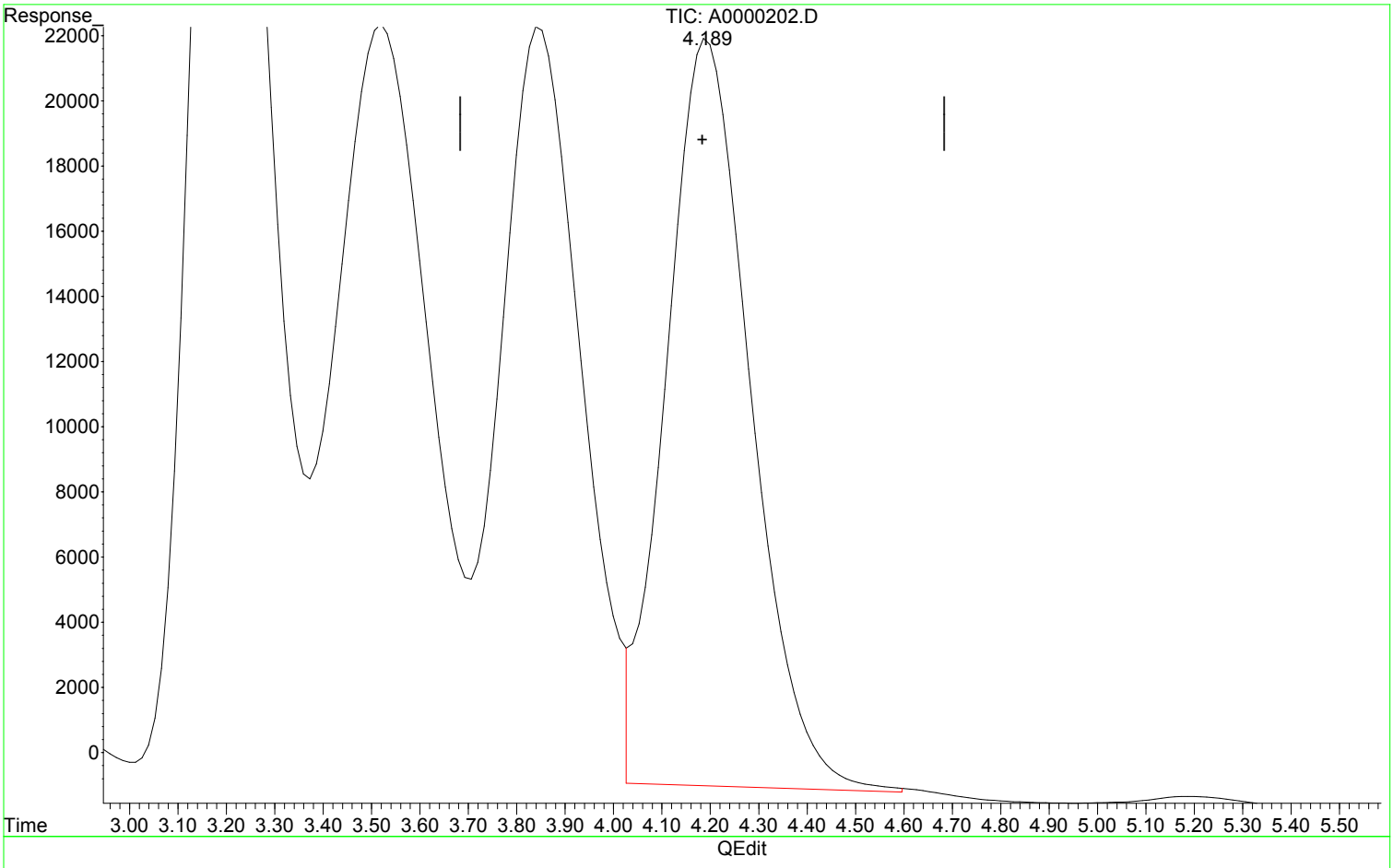
R.T.: 18.483 min
Delta R.T.: 0.057 min
Response: 1788493
Conc: 24.00 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000202.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 21:34:11
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:32:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:32:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.189min 53.413 ppm m

response 2787556

Manual Integration:

After

Poor integration.

09/05/24

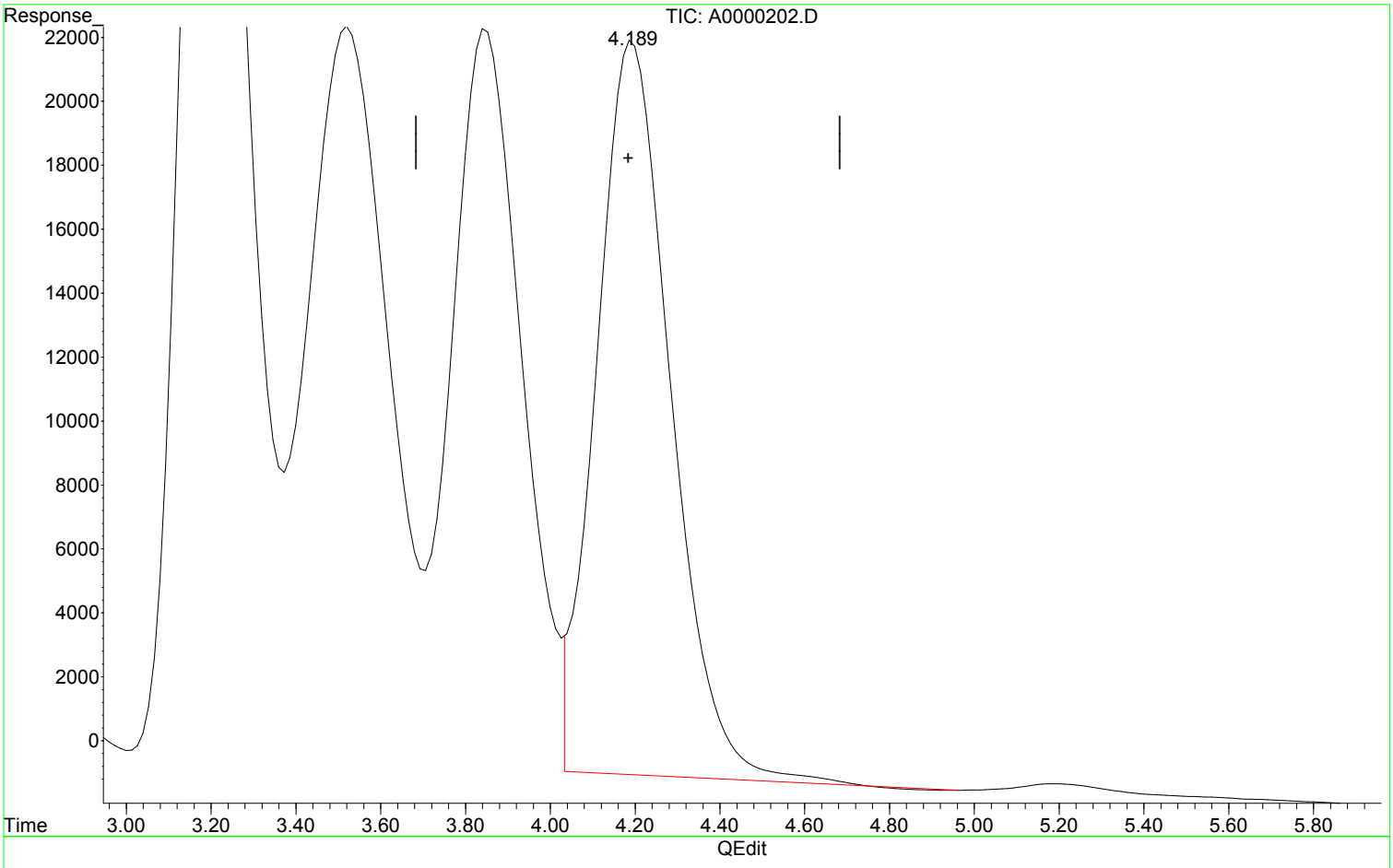
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000202.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 21:34:11
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:32:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:32:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.195min 53.903 ppm

response 2813104

Manual Integration:

Before

09/05/24

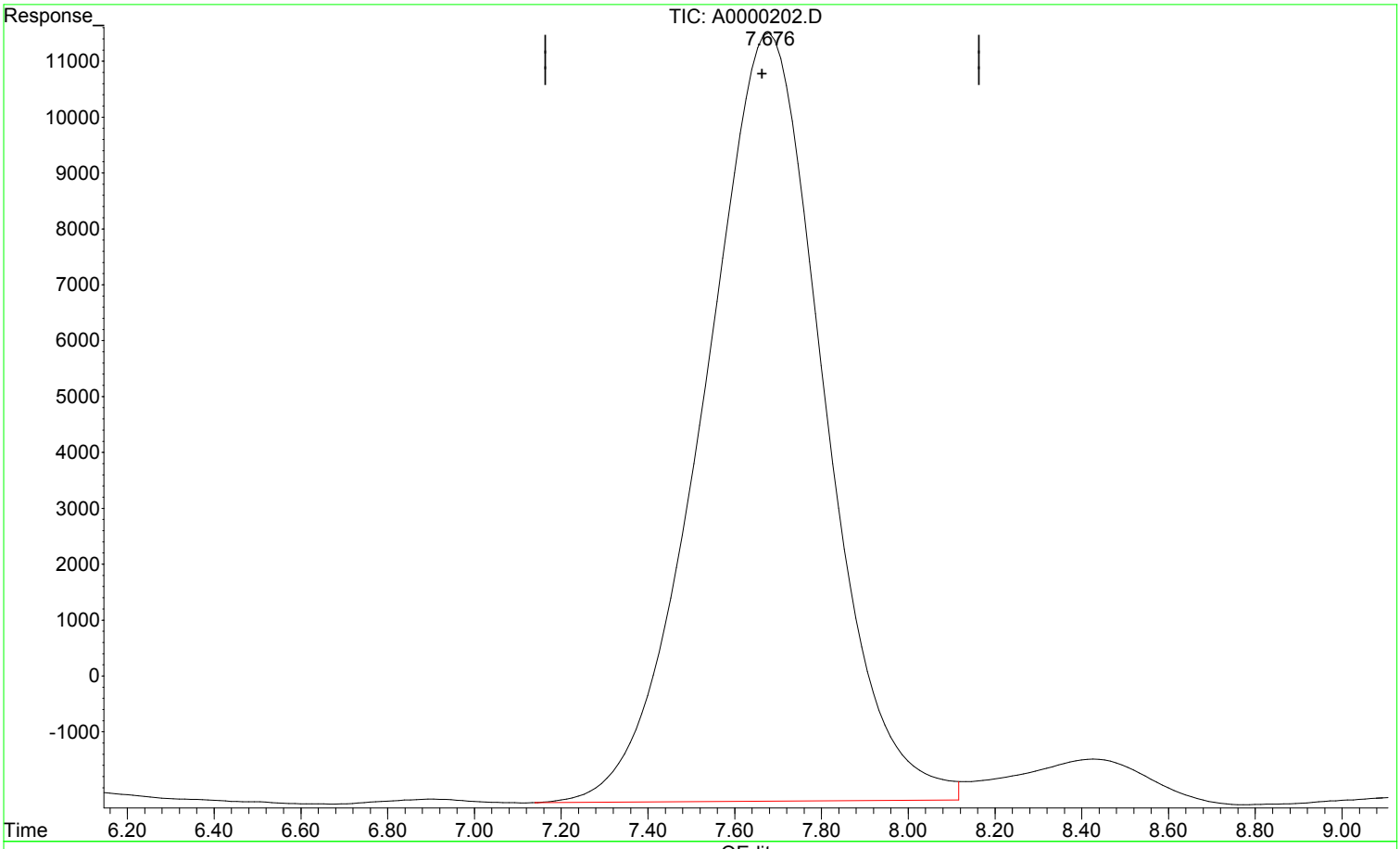
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000202.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 21:34:11
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:32:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:32:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.676min 49.486 ppm m

response 2638845

Manual Integration:

After

Poor integration.

09/05/24

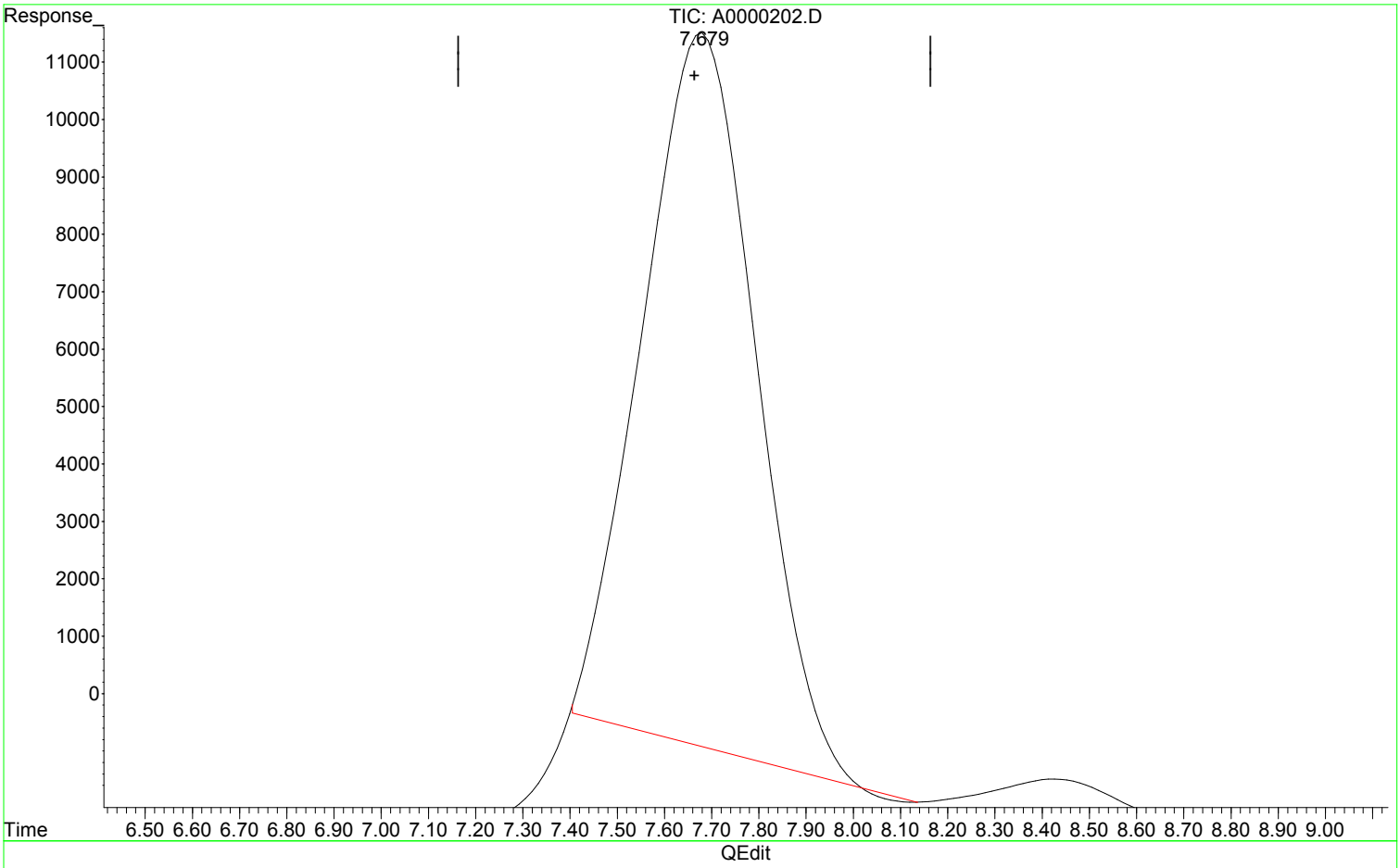
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000202.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 21:34:11
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:32:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:32:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.681min 39.032 ppm

response 2081396

Manual Integration:

Before

09/05/24

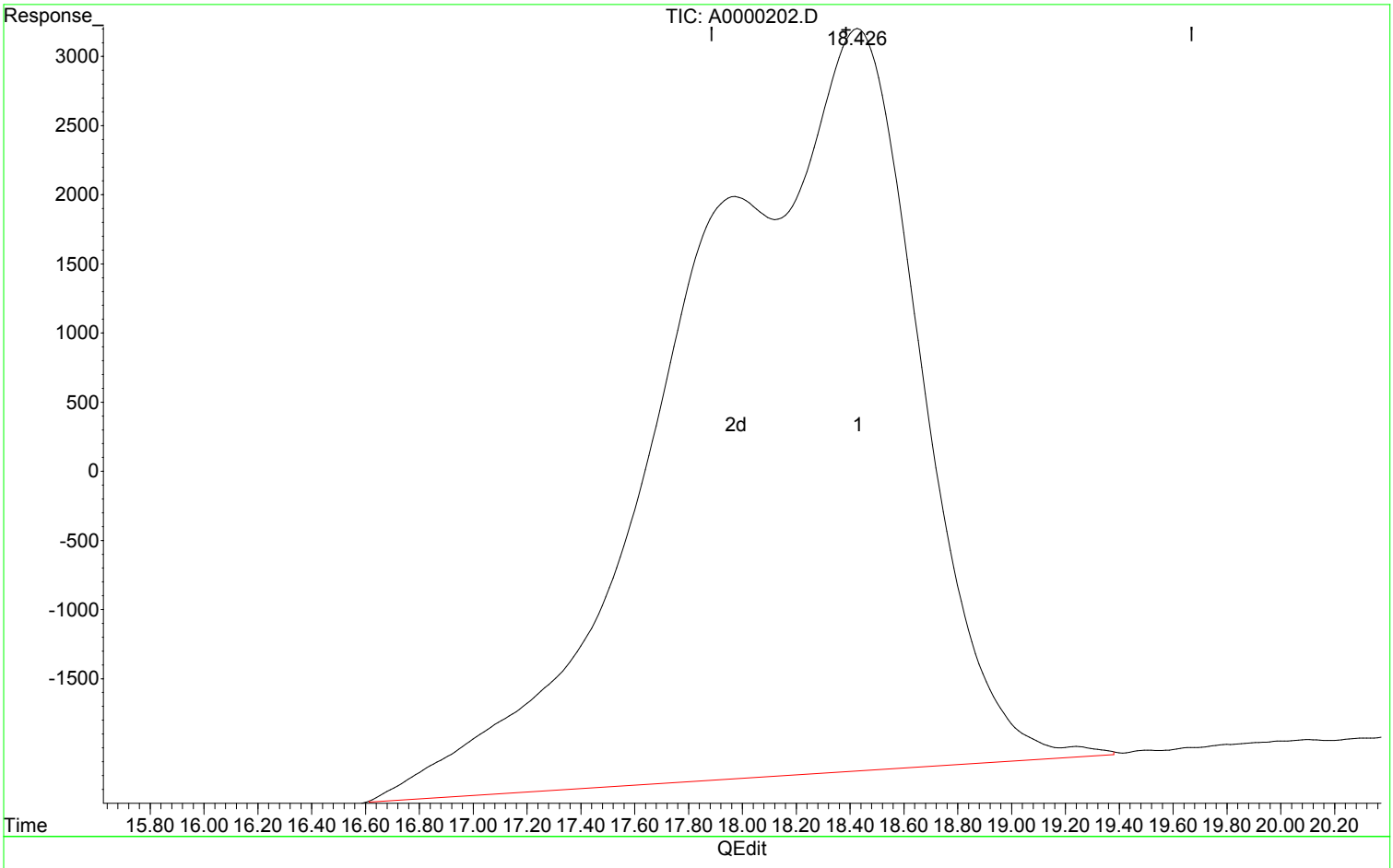
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000202.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 21:34:11
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:32:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:32:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.426min 43.581 ppm m

response 3247222

Manual Integration:

After

Poor integration.

09/05/24

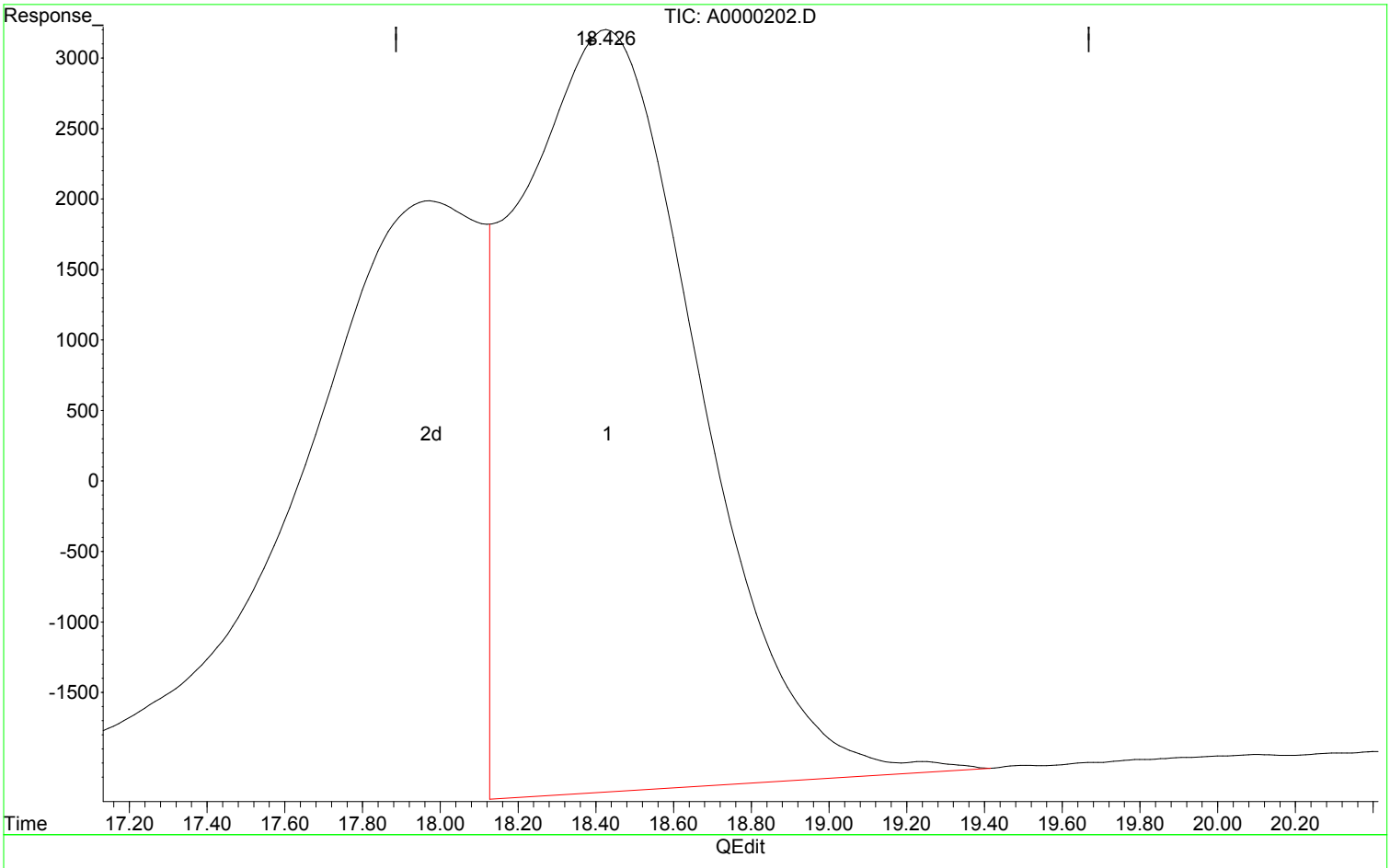
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000202.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 21:34:11
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:32:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:32:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.431min 23.719 ppm

response 1767299

Manual Integration:

Before

09/05/24

(+) = Expected Retention Time

1st AF 09/09/24
2nd AM 09/09/24

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000202.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 21:34:11
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:32:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:32:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 t	Formic acid	50.000	52.121	-4.2	101	0.00
2 T	Pyruvic acid	5.000	5.408	-8.2	115	0.00
3 T	Lactic Acid	50.000	52.162	-4.3	110	0.00
4 T	Acetic Acid	50.000	53.413	-6.8	104	0.00
5 T	Propionic Acid	50.000	49.486	1.0	95	0.01
6 T	Butyric Acid	50.000	43.581	12.8	86	0.04

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000202.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 21:34:11
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:32:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:32:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.204	4523489	52.121	ppm	
2) T	Pyruvic acid	3.523	3018313	5.408	ppm	
3) T	Lactic Acid	3.850	2672362	52.162	ppm	
4) T	Acetic Acid	4.189	2787556	53.413	ppm	m
5) T	Propionic Acid	7.676	2638845	49.486	ppm	m
6) T	Butyric Acid	18.426	3247222	43.581	ppm	m

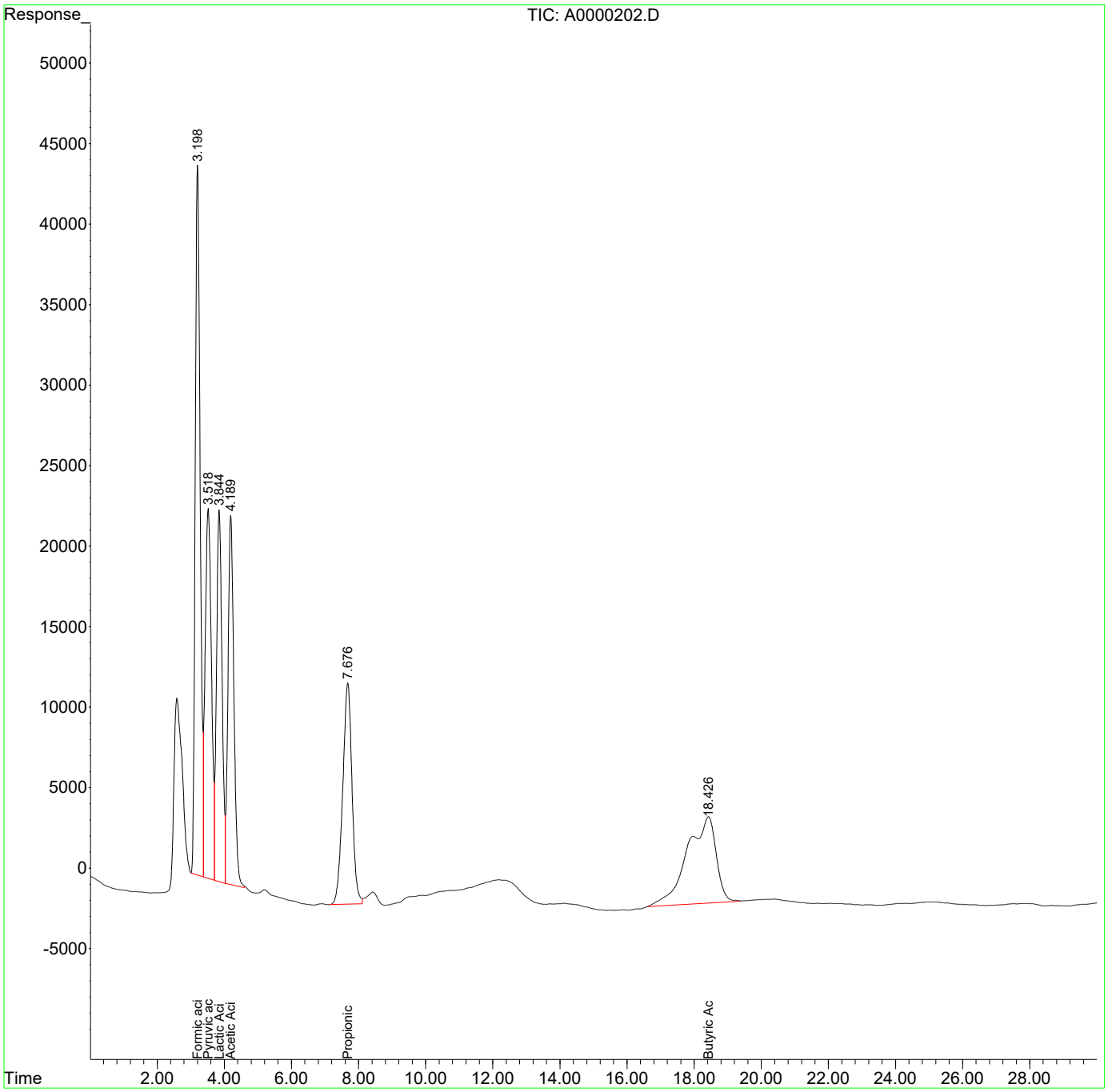
(f)=RT Delta > 1/2 Window (m)=manual int.

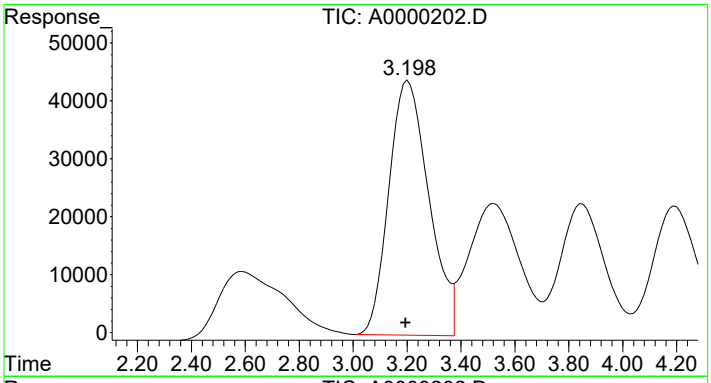
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000202.D
Signal(s) : dad1A.ch
Acq On : 04-Sep-2024, 21:34:11
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:32:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:32:07 2024
Response via : Initial Calibration
Integrator: ChemStation

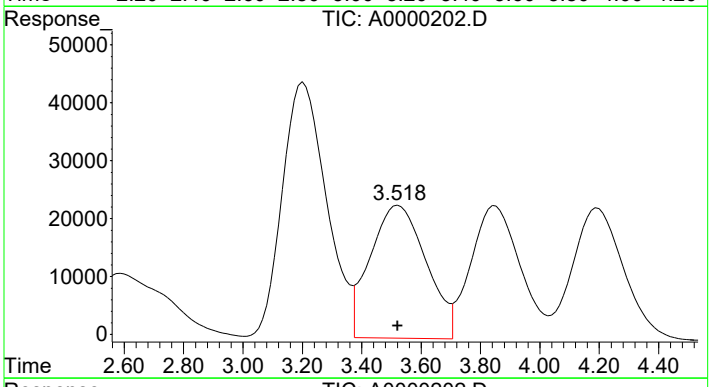
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





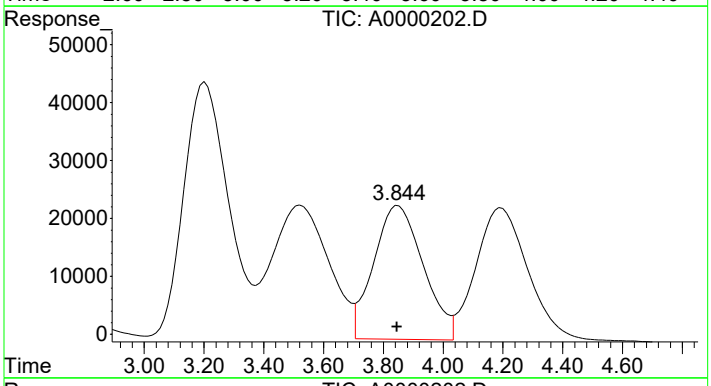
#1 Formic acid

R.T.: 3.204 min
Delta R.T.: 0.009 min
Response: 4523489
Conc: 52.12 ppm



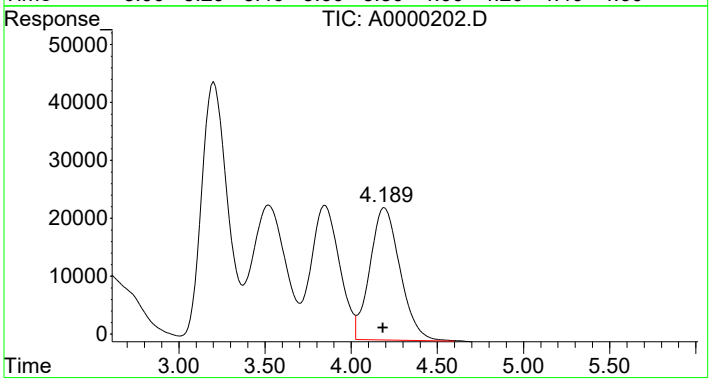
#2 Pyruvic acid

R.T.: 3.523 min
Delta R.T.: 0.003 min
Response: 3018313
Conc: 5.41 ppm



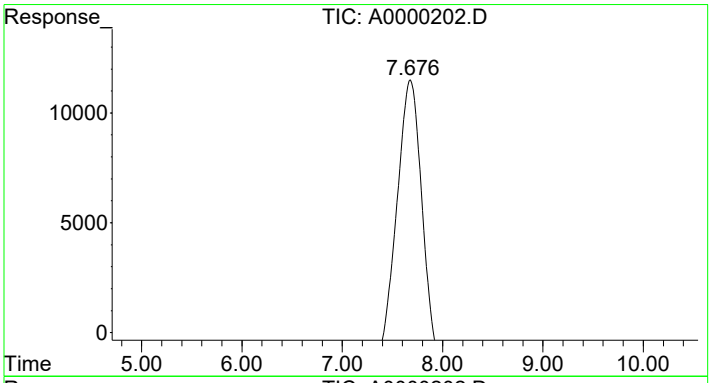
#3 Lactic Acid

R.T.: 3.850 min
Delta R.T.: 0.004 min
Response: 2672362
Conc: 52.16 ppm



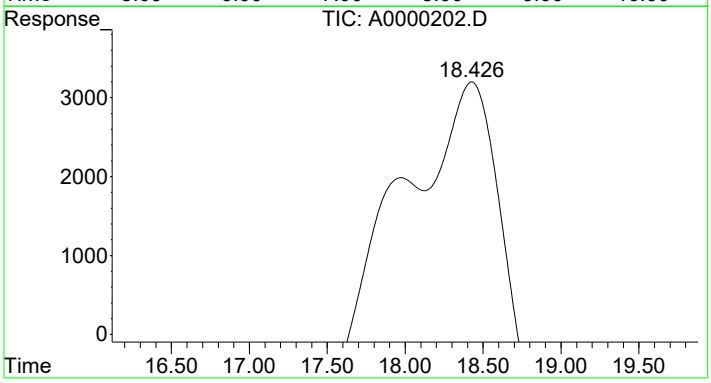
#4 Acetic Acid

R.T.: 4.189 min
Delta R.T.: 0.005 min
Response: 2787556
Conc: 53.41 ppm m



#5 Propionic Acid

R.T.: 7.676 min
Delta R.T.: 0.012 min
Response: 2638845
Conc: 49.49 ppm m



#6 Butyric Acid

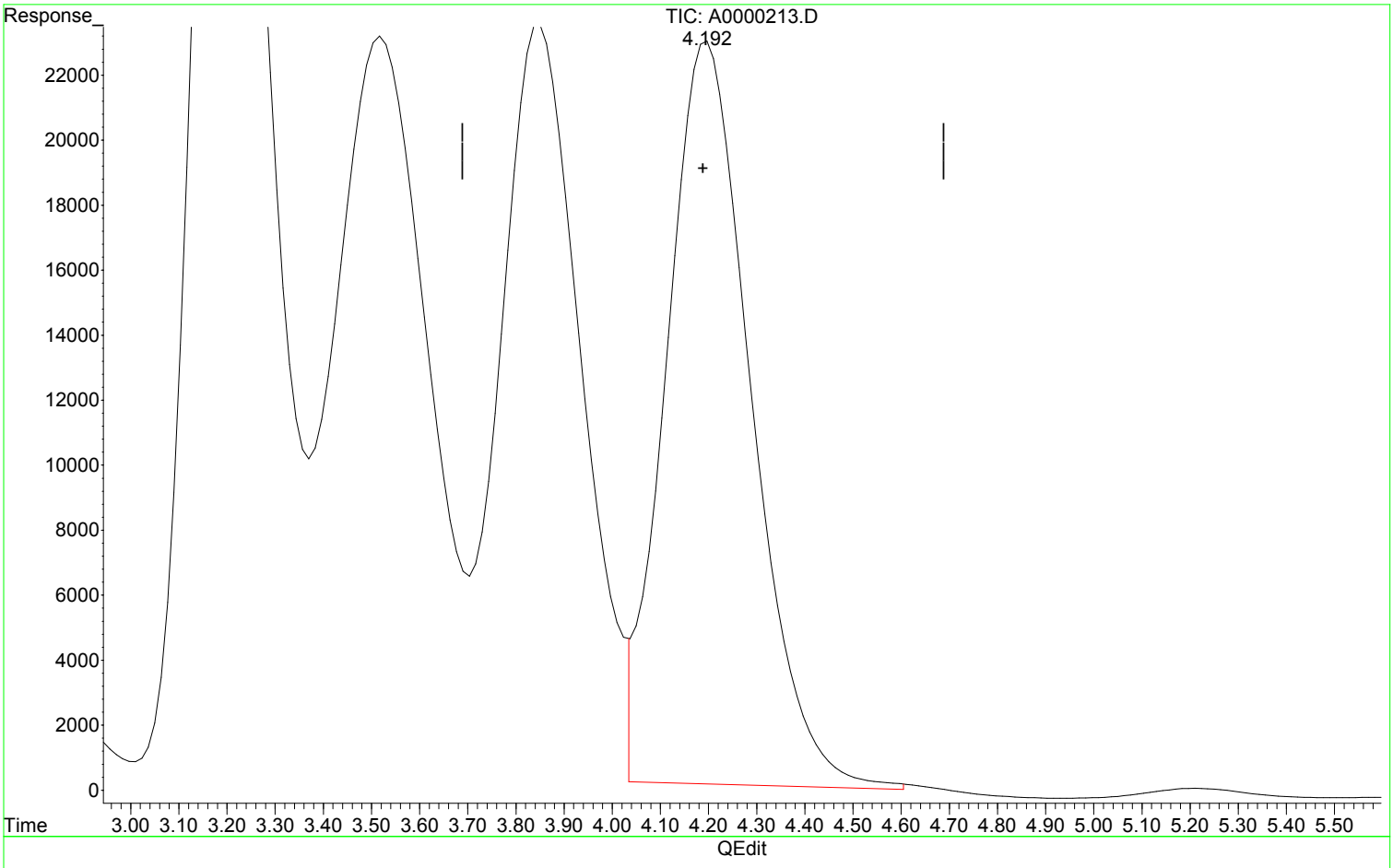
R.T.: 18.426 min
Delta R.T.: 0.039 min
Response: 3247222
Conc: 43.58 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000213.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 03:23:44
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:28 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.192min 53.975 ppm m

response 2816860

Manual Integration:

After

Poor integration.

09/05/24

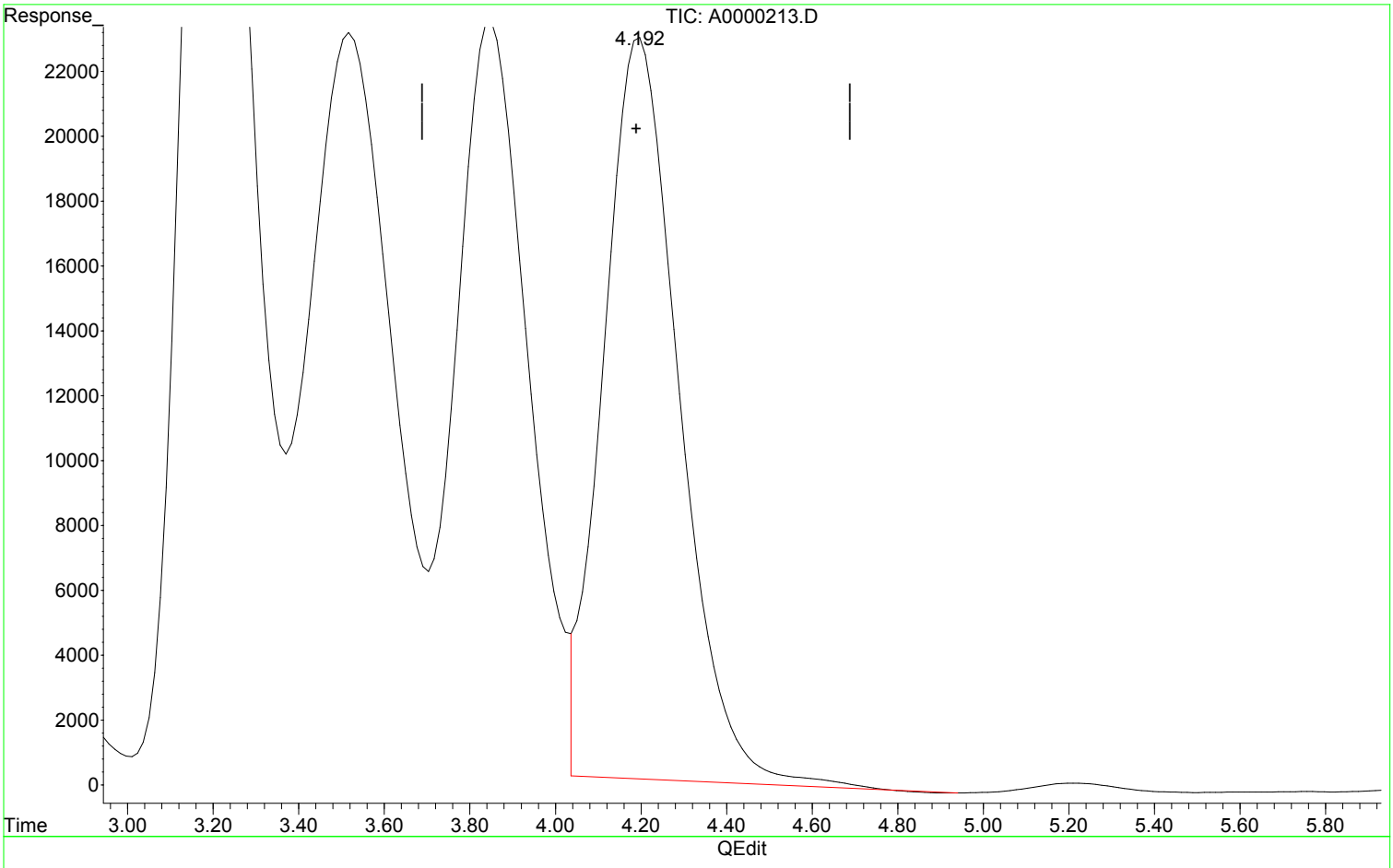
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000213.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 03:23:44
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:28 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.198min 54.567 ppm

response 2847750

Manual Integration:

Before

09/05/24

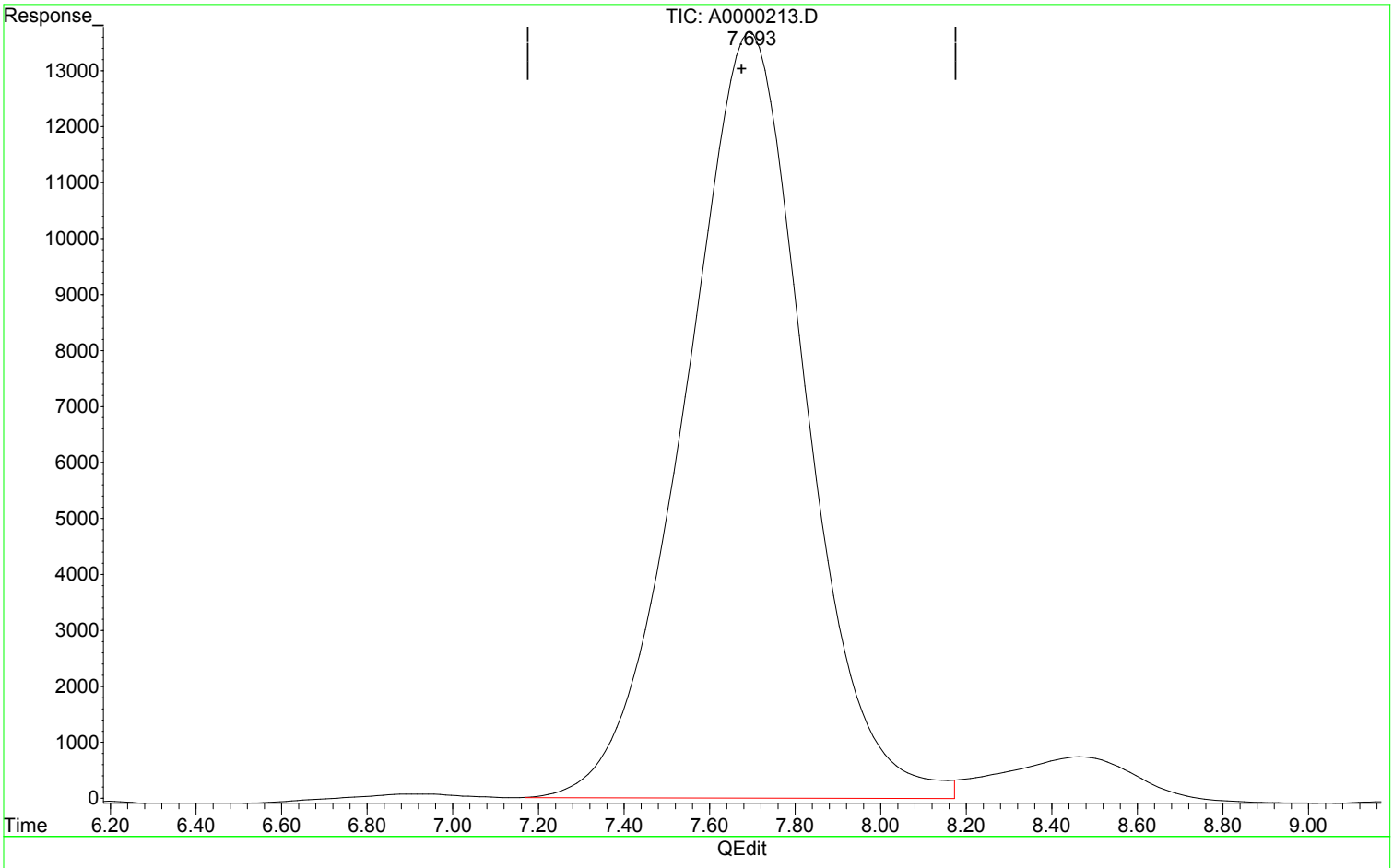
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000213.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 03:23:44
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:28 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.693min 50.021 ppm m

response 2667382

Manual Integration:

After

Poor integration.

09/05/24

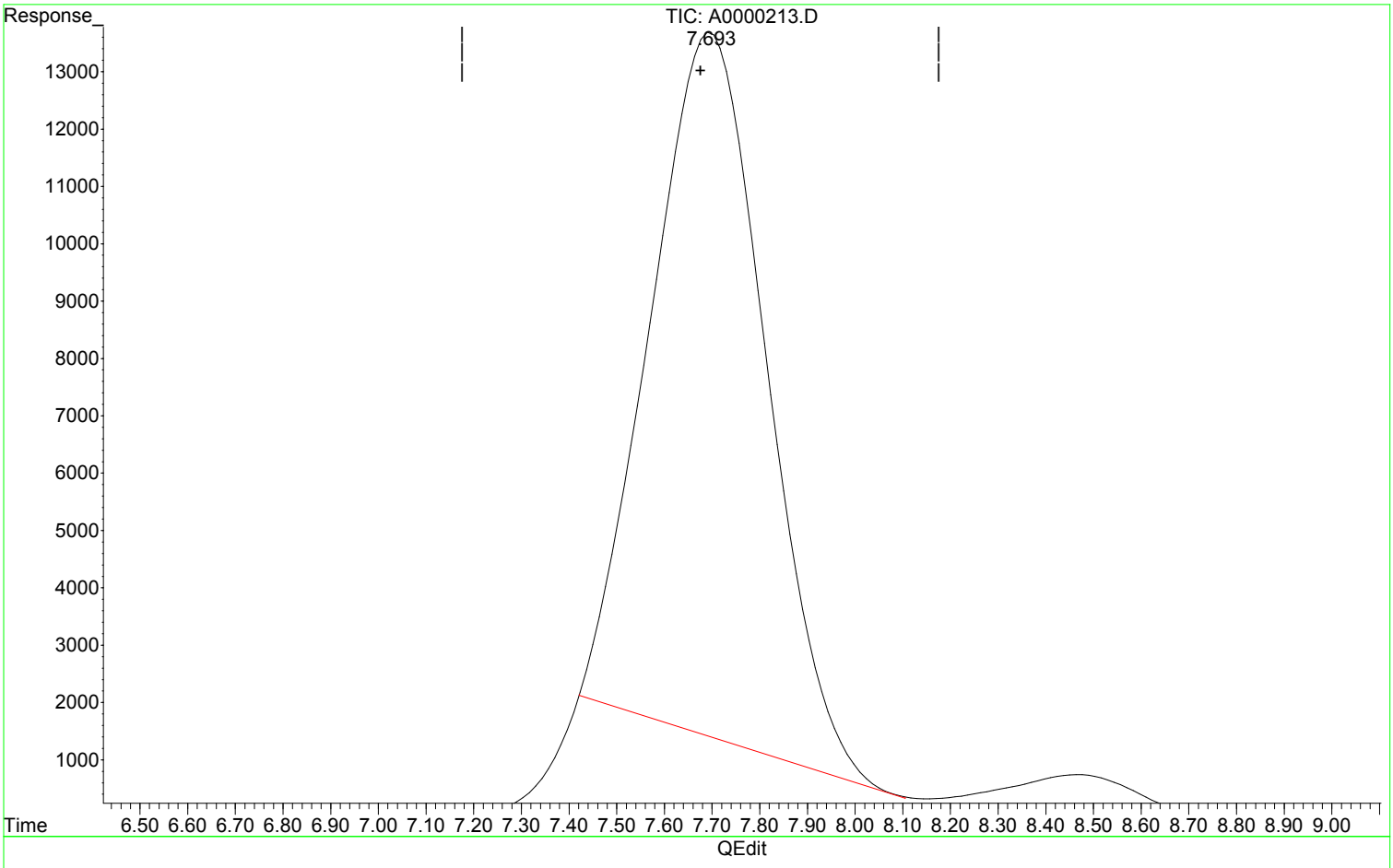
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000213.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 03:23:44
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:28 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.693min 38.819 ppm m

response 2070051

Manual Integration:

Before

09/05/24

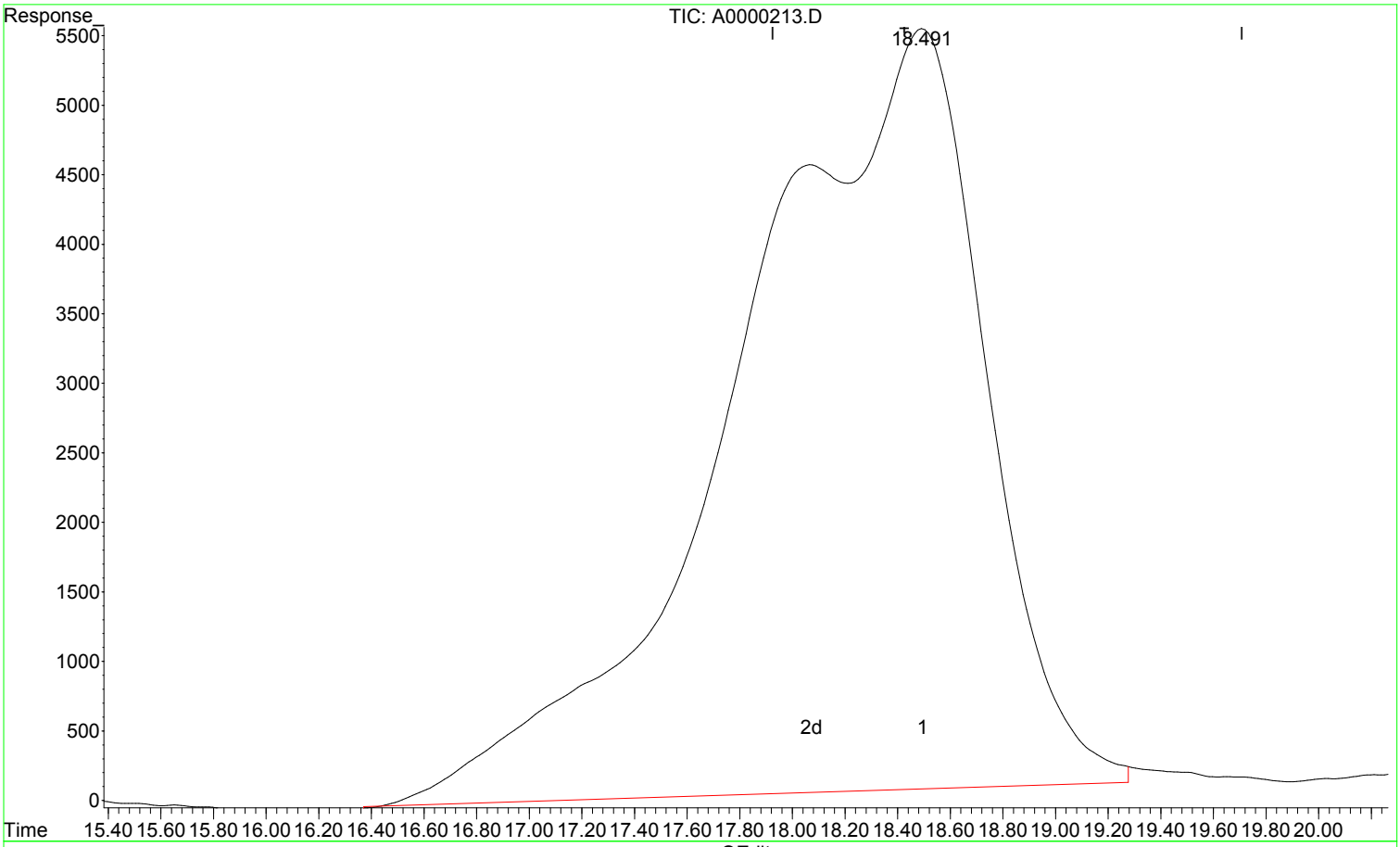
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000213.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 03:23:44
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:28 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.491min 47.466 ppm m

response 3536678

Manual Integration:

After

Poor integration.

09/05/24

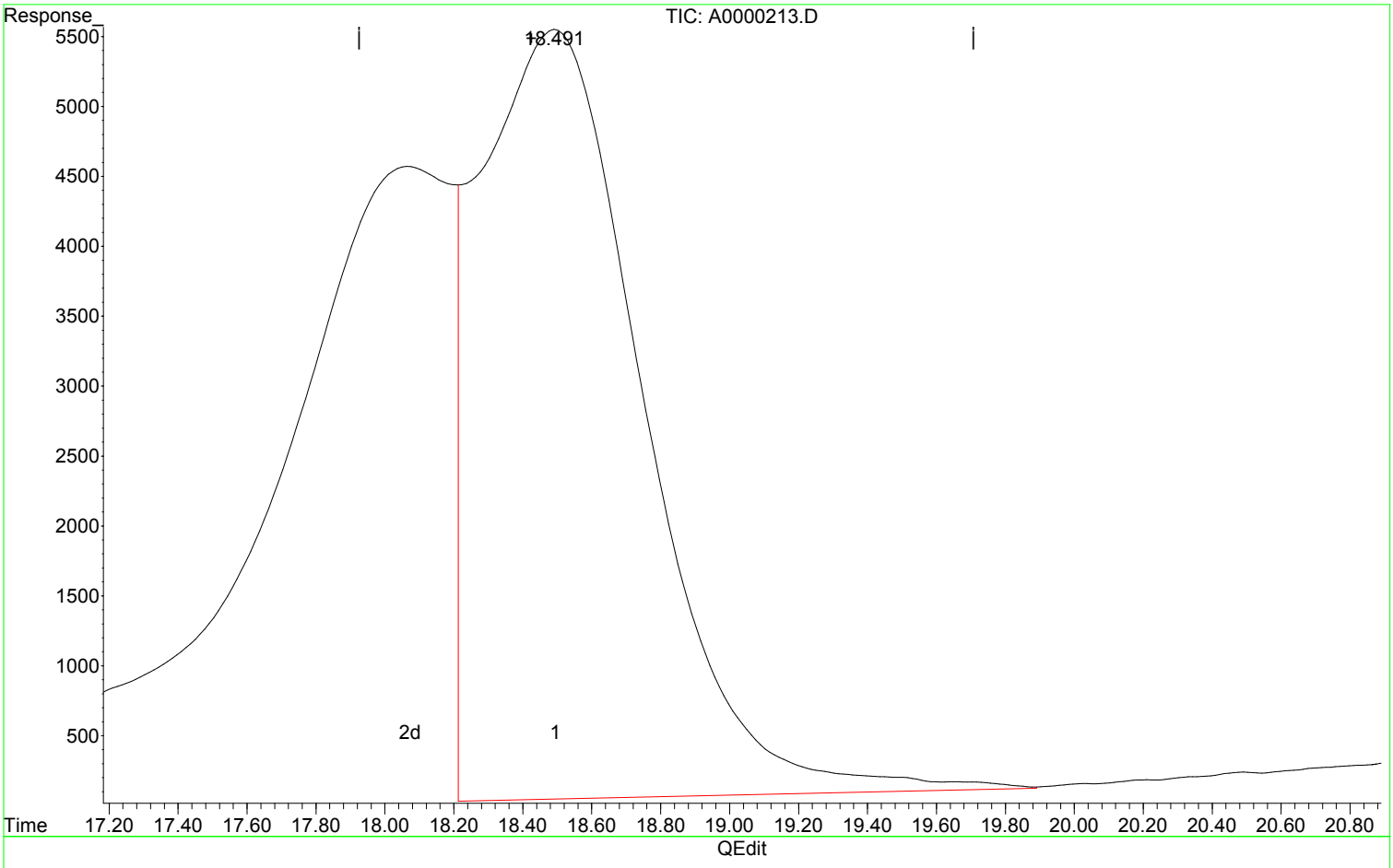
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000213.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 03:23:44
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:28 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.496min 24.701 ppm

response 1840448

Manual Integration:

Before

09/05/24

(+) = Expected Retention Time

1st AF 09/09/24
2nd AM 09/09/24

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000213.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 03:23:44
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:28 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 t	Formic acid	50.000	52.514	-5.0	102	0.00
2 T	Pyruvic acid	5.000	5.396	-7.9	115	0.00
3 T	Lactic Acid	50.000	53.014	-6.0	112	0.00
4 T	Acetic Acid	50.000	53.975	-8.0	105	0.00
5 T	Propionic Acid	50.000	50.021	-0.0	97	0.02
6 T	Butyric Acid	50.000	47.466	5.1	94	0.07

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000213.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 03:23:44
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:28 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.204	4557585	52.514	ppm	
2) T	Pyruvic acid	3.521	3011637	5.396	ppm	
3) T	Lactic Acid	3.851	2716508	53.014	ppm	
4) T	Acetic Acid	4.192	2816860	53.975	ppm	m
5) T	Propionic Acid	7.693	2667382	50.021	ppm	m
6) T	Butyric Acid	18.491	3536678	47.466	ppm	m

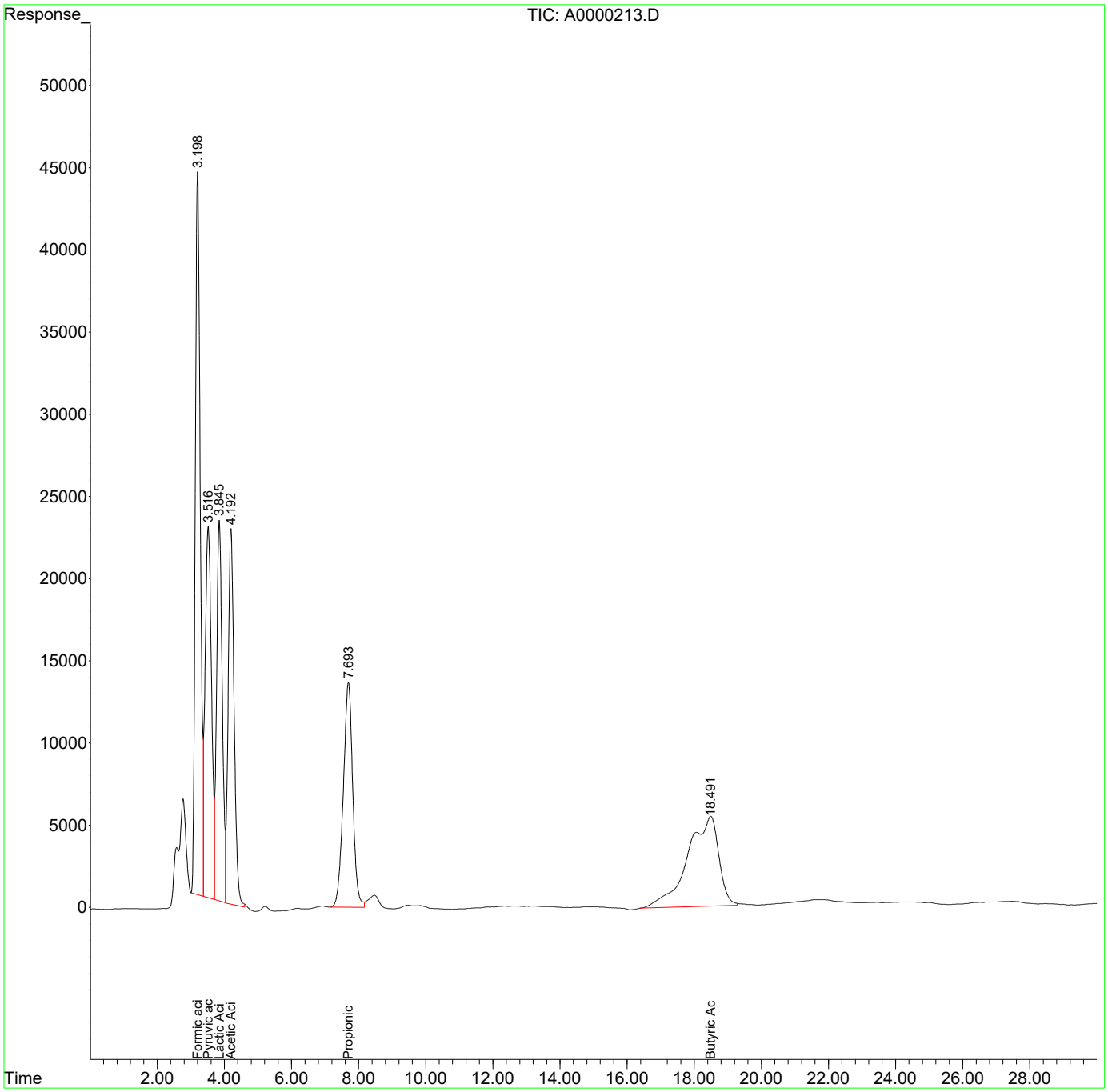
(f)=RT Delta > 1/2 Window (m)=manual int.

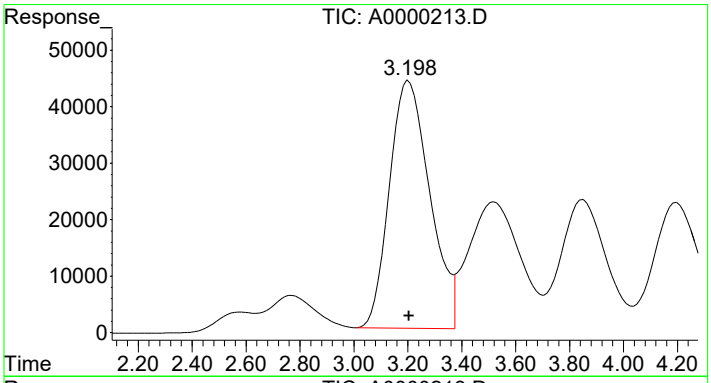
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000213.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 03:23:44
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:34:28 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:33:43 2024
Response via : Initial Calibration
Integrator: ChemStation

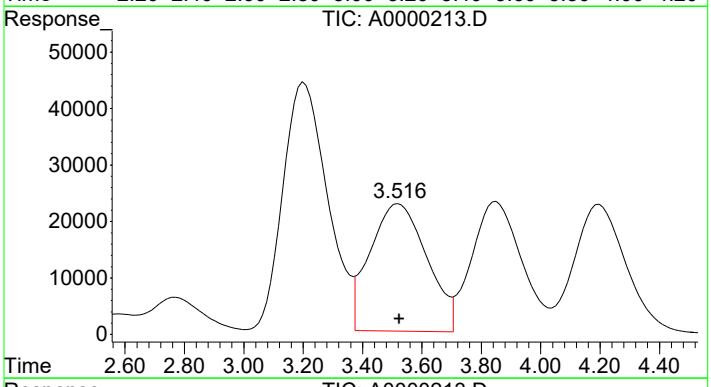
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





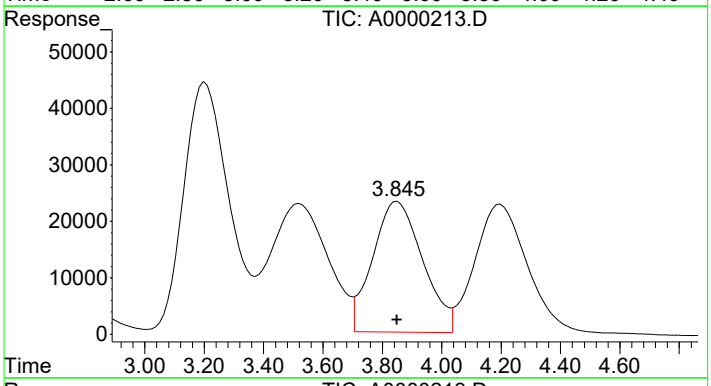
#1 Formic acid

R.T.: 3.204 min
Delta R.T.: 0.000 min
Response: 4557585
Conc: 52.51 ppm



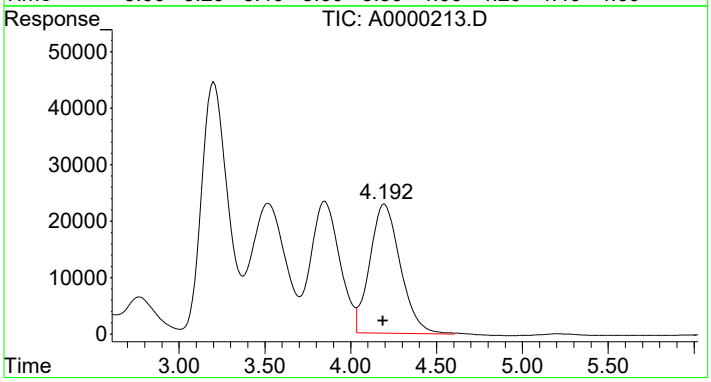
#2 Pyruvic acid

R.T.: 3.521 min
Delta R.T.: -0.002 min
Response: 3011637
Conc: 5.40 ppm



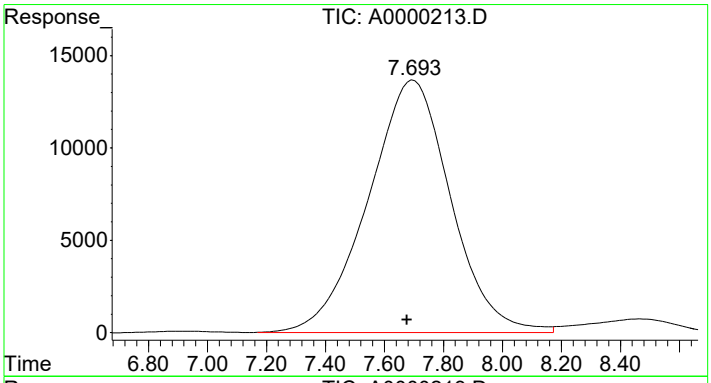
#3 Lactic Acid

R.T.: 3.851 min
Delta R.T.: 0.000 min
Response: 2716508
Conc: 53.01 ppm



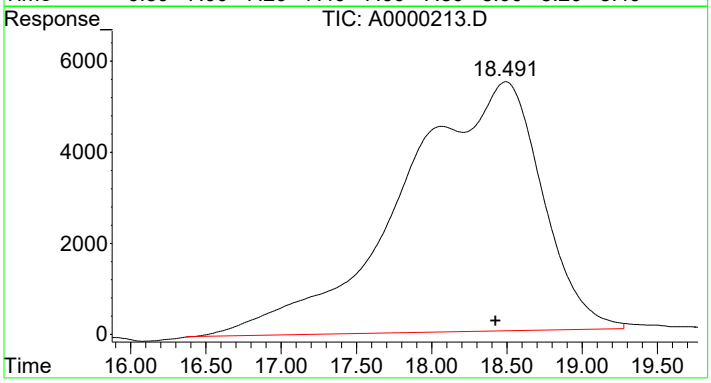
#4 Acetic Acid

R.T.: 4.192 min
Delta R.T.: 0.003 min
Response: 2816860
Conc: 53.97 ppm m



#5 Propionic Acid

R.T.: 7.693 min
Delta R.T.: 0.017 min
Response: 2667382
Conc: 50.02 ppm m



#6 Butyric Acid

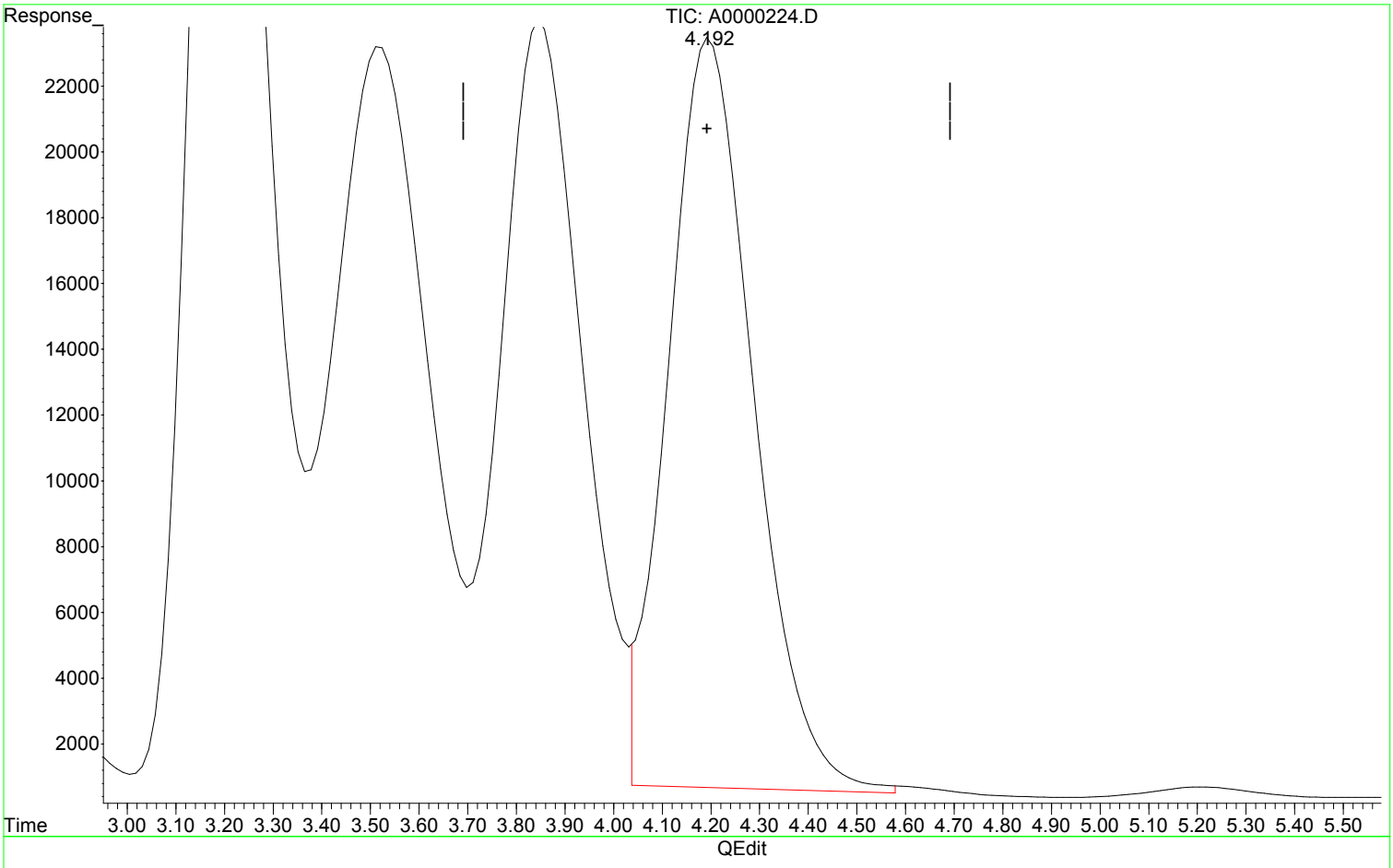
R.T.: 18.491 min
Delta R.T.: 0.066 min
Response: 3536678
Conc: 47.47 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000224.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 09:13:19
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:18 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.192min 53.303 ppm m

response 2781816

Manual Integration:

After

Poor integration.

09/05/24

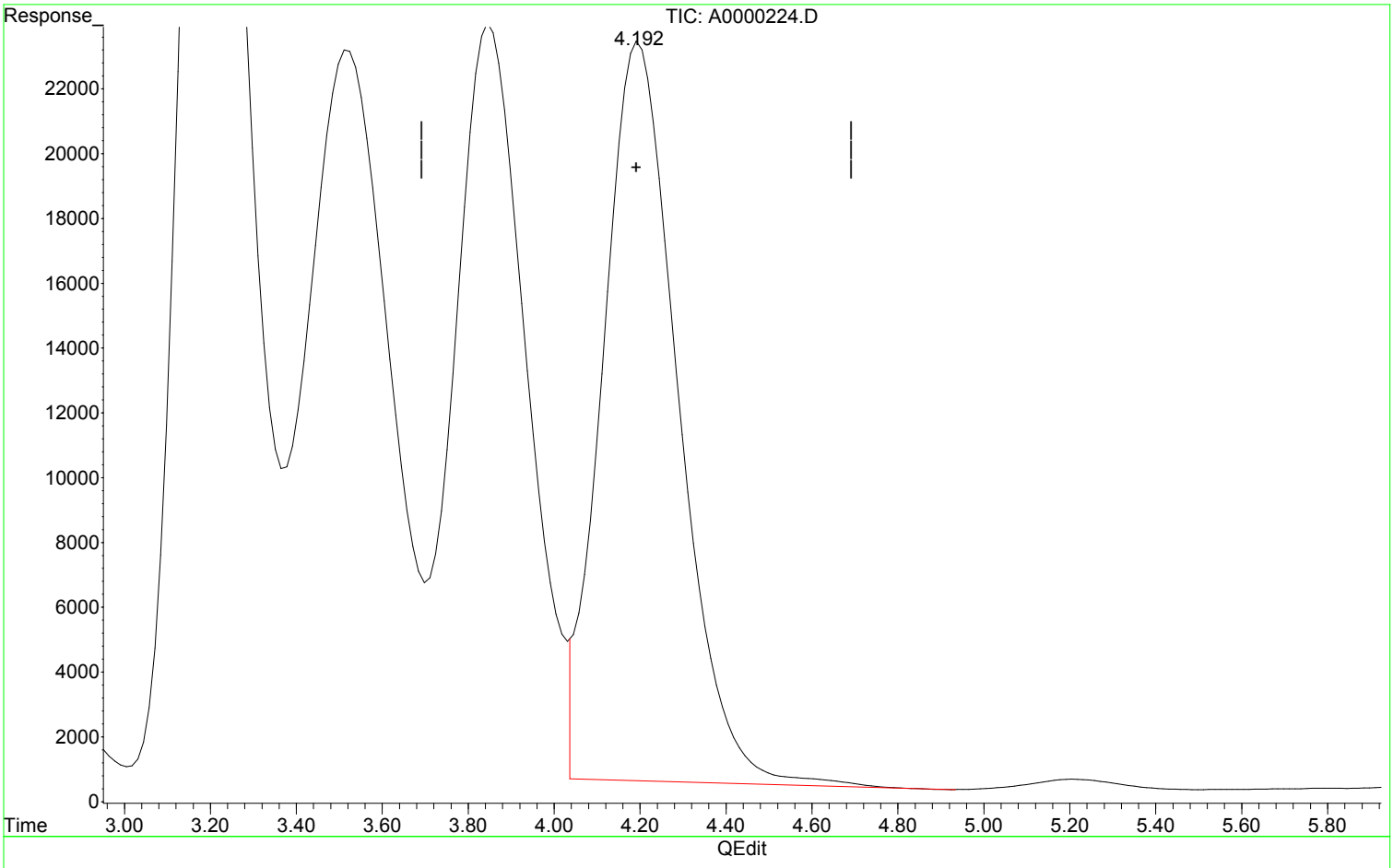
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000224.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 09:13:19
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:18 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.198min 54.008 ppm

response 2818608

Manual Integration:

Before

09/05/24

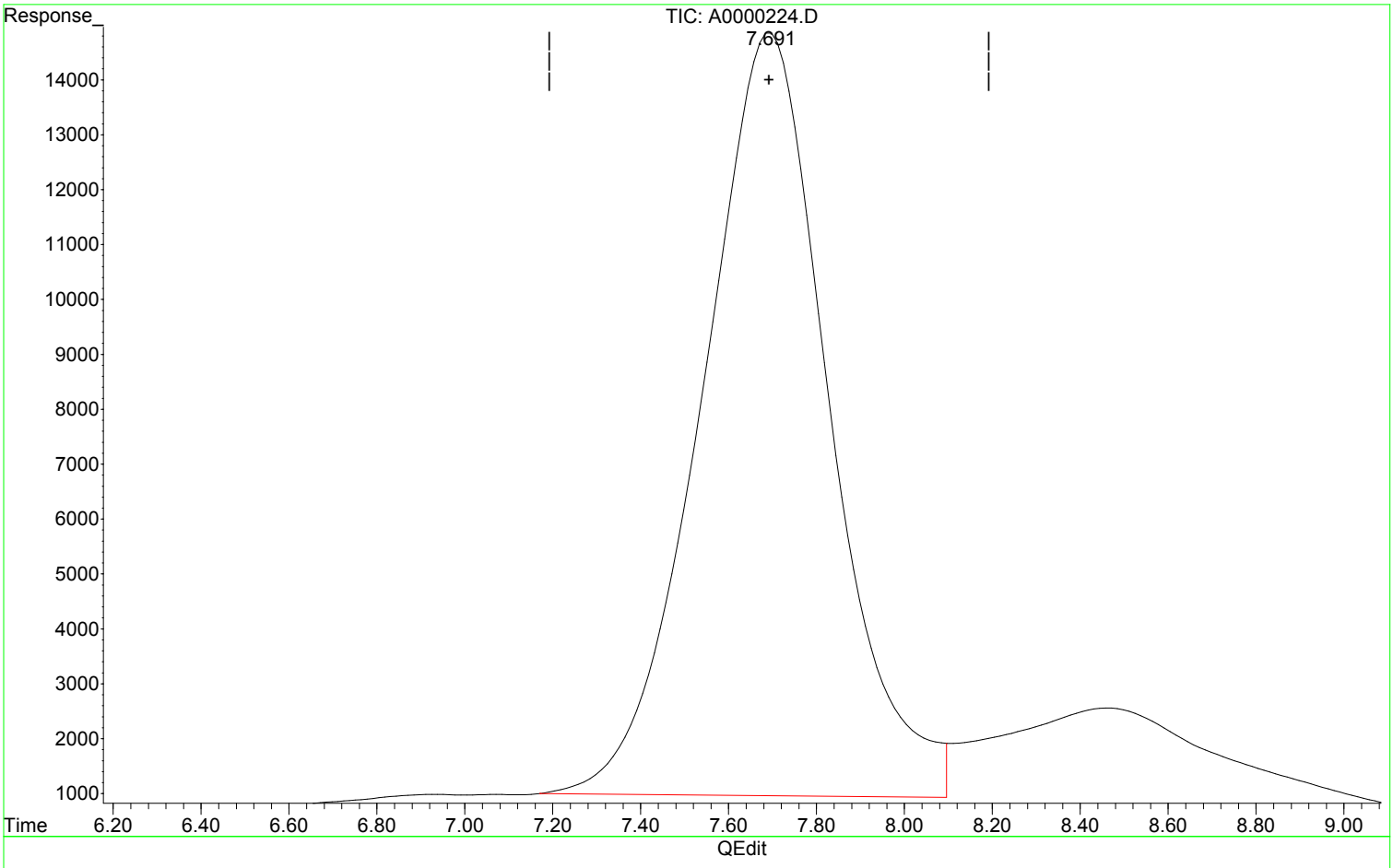
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000224.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 09:13:19
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:18 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.691min 52.033 ppm m

response 2774670

Manual Integration:

After

Poor integration.

09/05/24

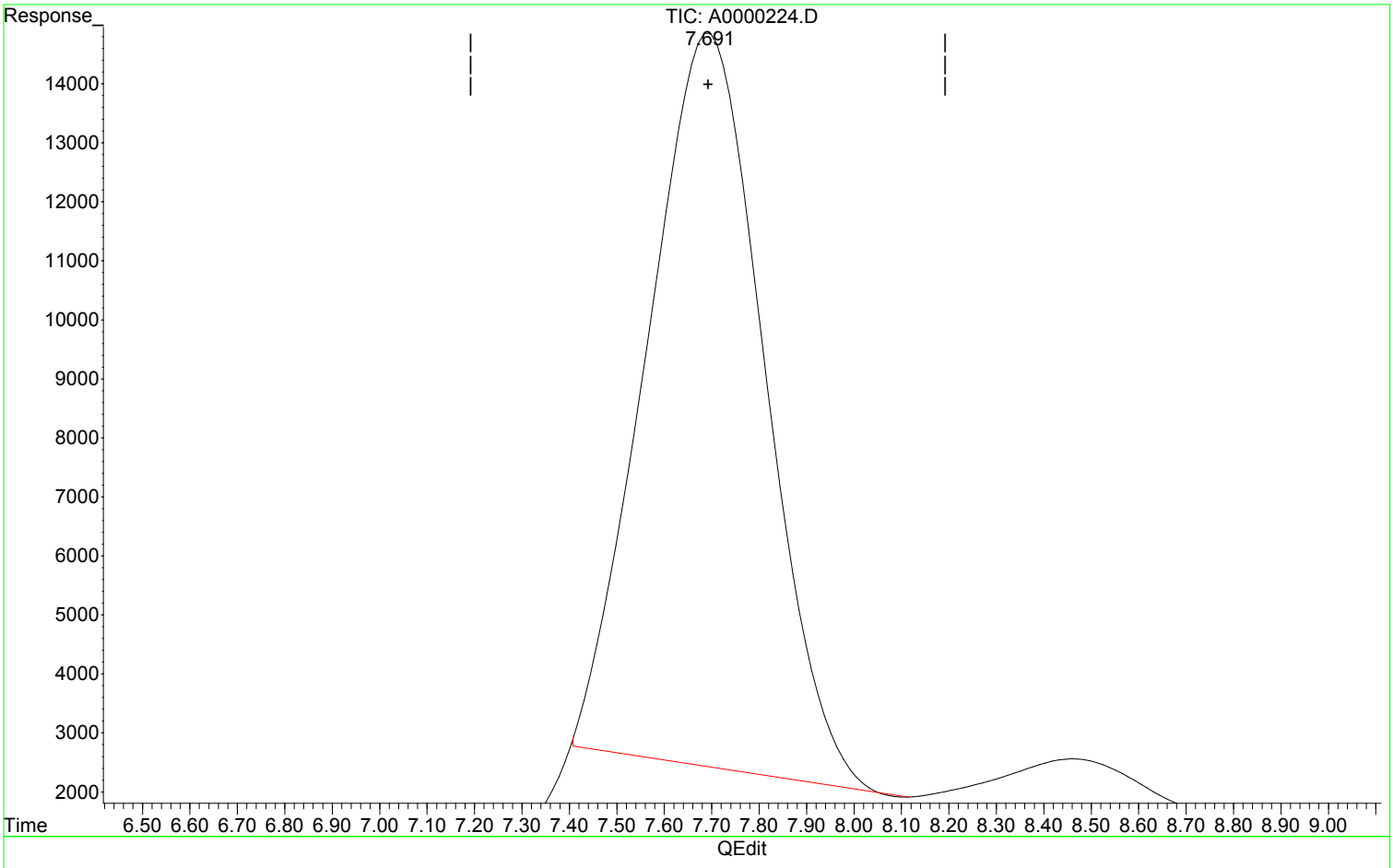
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000224.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 09:13:19
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:18 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.696min 39.972 ppm

response 2131551

Manual Integration:

Before

09/05/24

(+) = Expected Retention Time

1st AF 09/09/24
2nd AM 09/09/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000224.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 09:13:19
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

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Quant Time: Sep 05 13:36:18 2024
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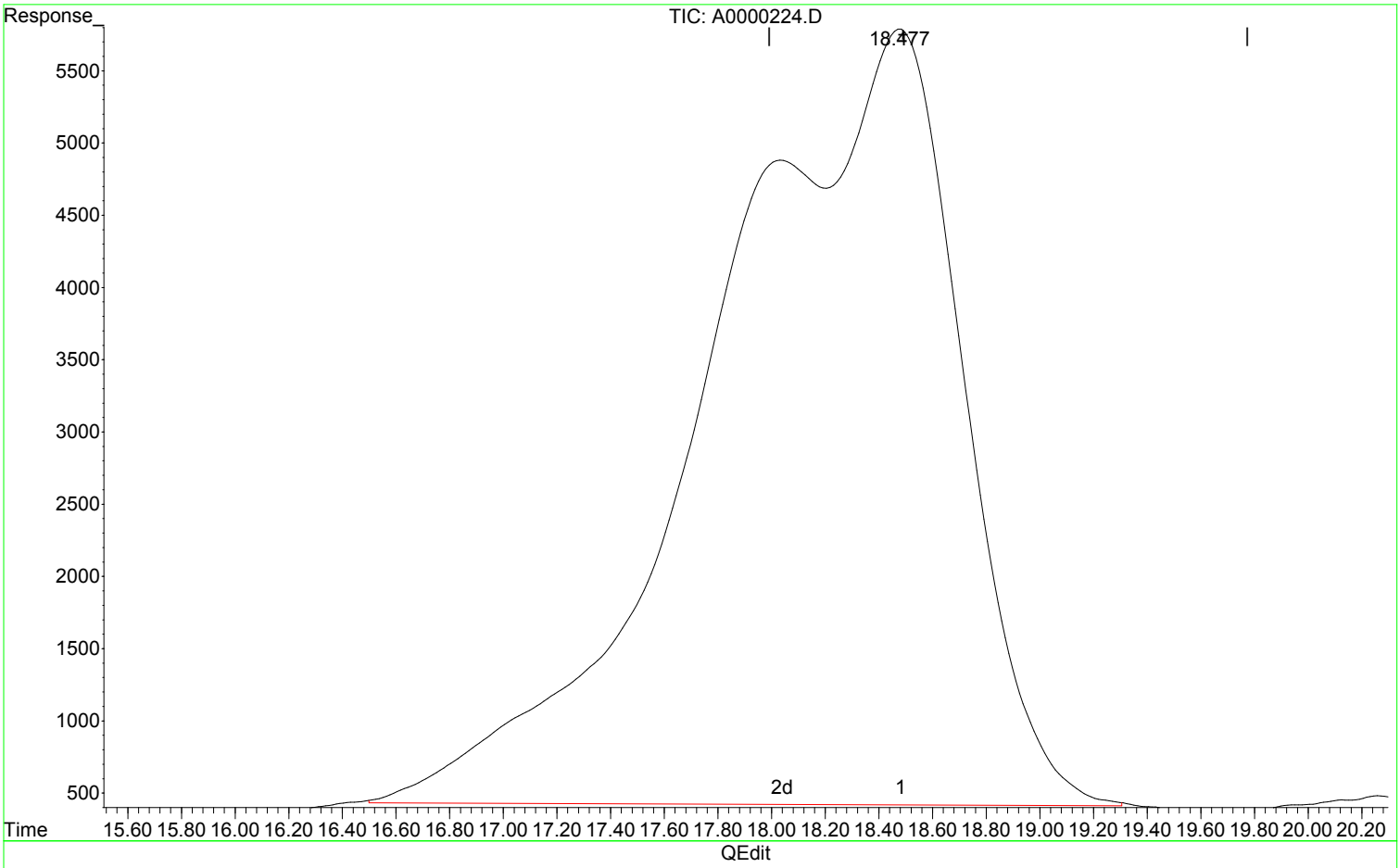
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.477min 46.190 ppm m

response 3441589

Manual Integration:

After

Poor integration.

09/05/24

(+) = Expected Retention Time

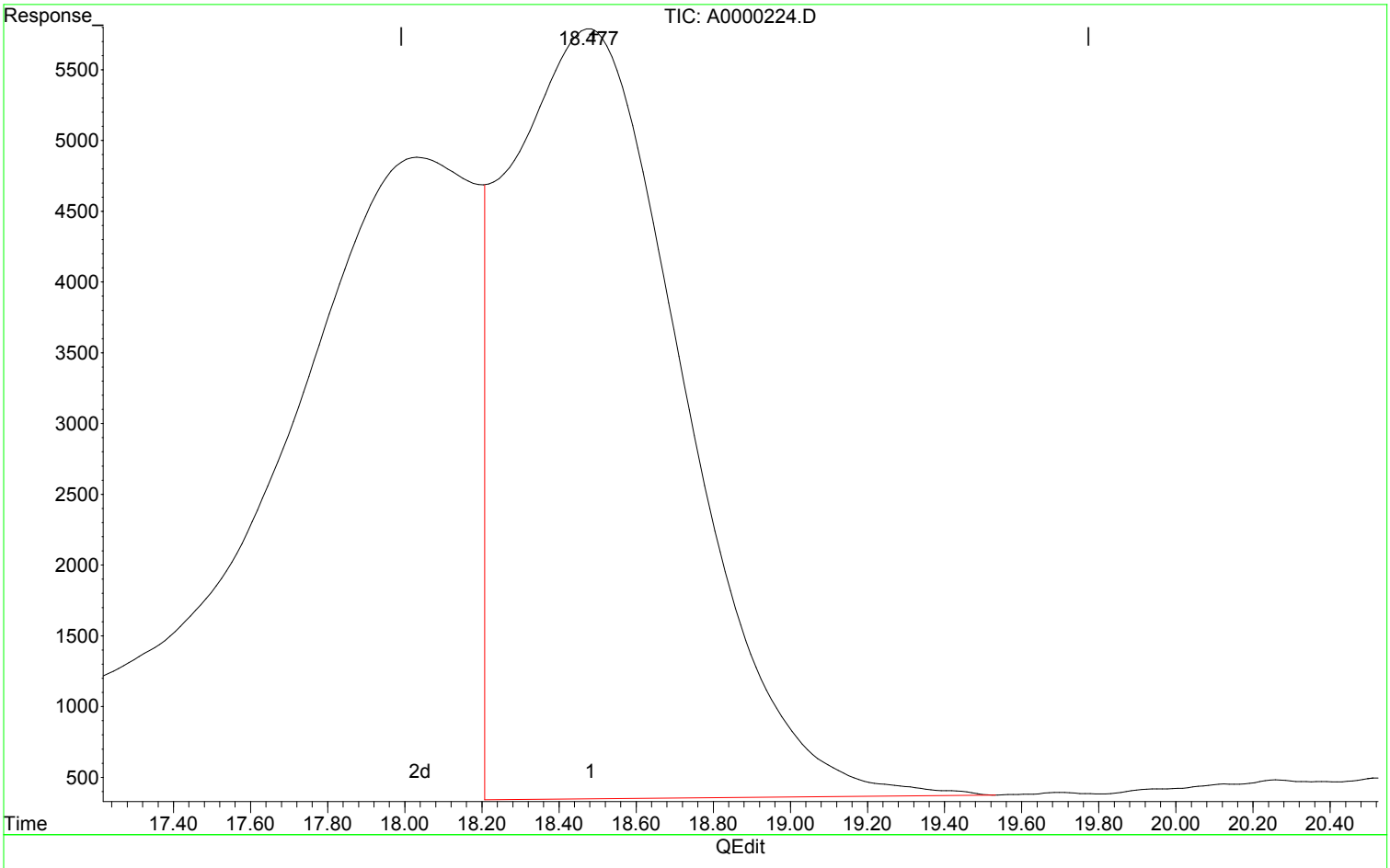
1st AF 09/09/24
2nd AM 09/09/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000224.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 09:13:19
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:18 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.482min 23.396 ppm

response 1743245

Manual Integration:

Before

09/05/24

(+) = Expected Retention Time

1st AF 09/09/24
2nd AM 09/09/24

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000224.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 09:13:19
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 12:08:58 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 12:08:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 t	Formic acid	50.000	52.328	-4.7	101	0.00
2 T	Pyruvic acid	5.000	5.301	-6.0	112	0.00
3 T	Lactic Acid	50.000	52.846	-5.7	112	0.00
4 T	Acetic Acid	50.000	54.015	-8.0	105	0.00
5 T	Propionic Acid	50.000	47.383	5.2	91	0.00
6 T	Butyric Acid	50.000	47.838	4.3	94	-0.01

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000224.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 09:13:19
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:18 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.204	4540876	52.321	ppm	
2) T	Pyruvic acid	3.522	2957416	5.301	ppm	
3) T	Lactic Acid	3.851	2707461	52.840	ppm	
4) T	Acetic Acid	4.192	2781816	53.303	ppm	m
5) T	Propionic Acid	7.691	2774670	52.033	ppm	m
6) T	Butyric Acid	18.477	3441589	46.190	ppm	m

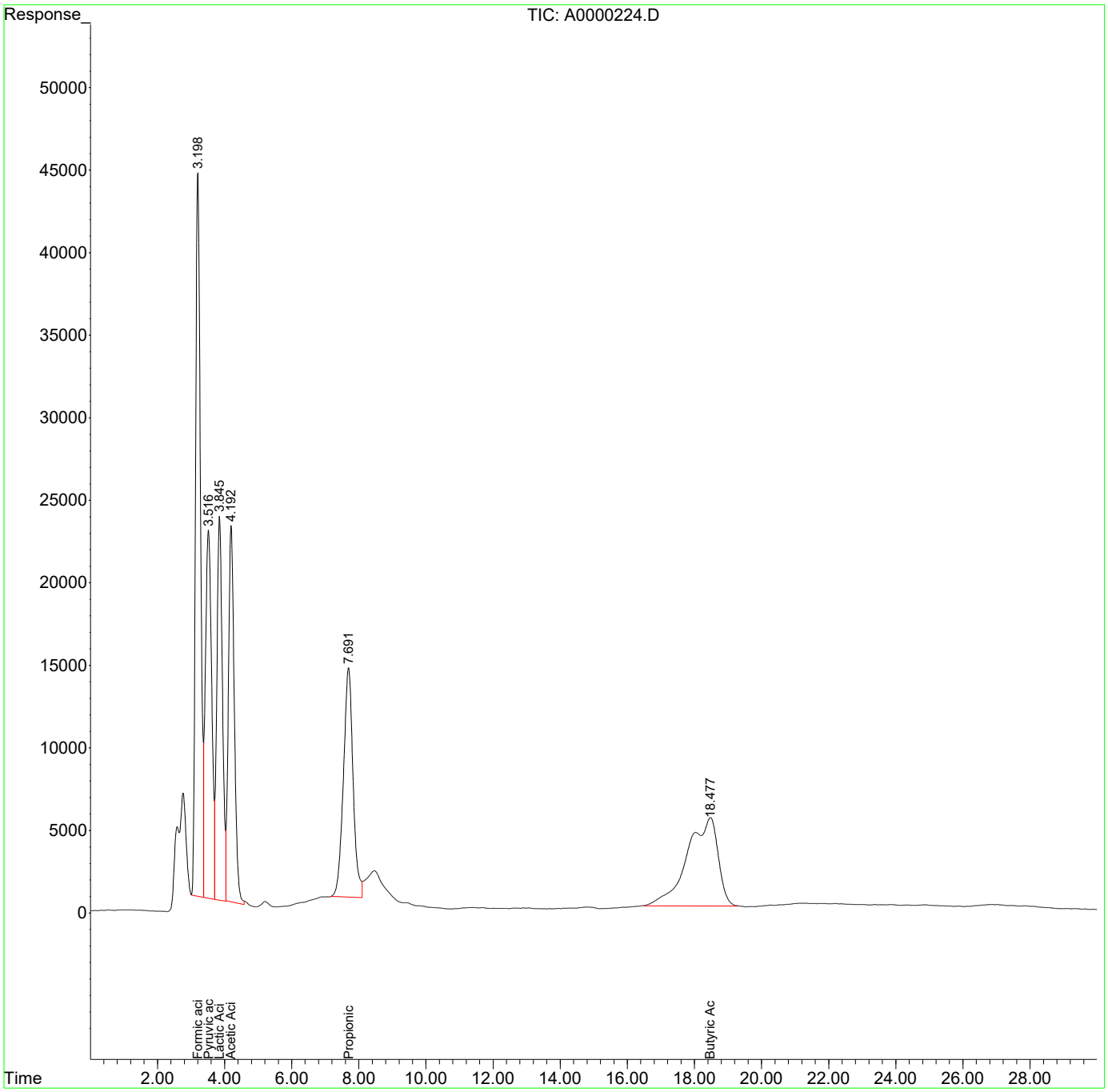
(f)=RT Delta > 1/2 Window (m)=manual int.

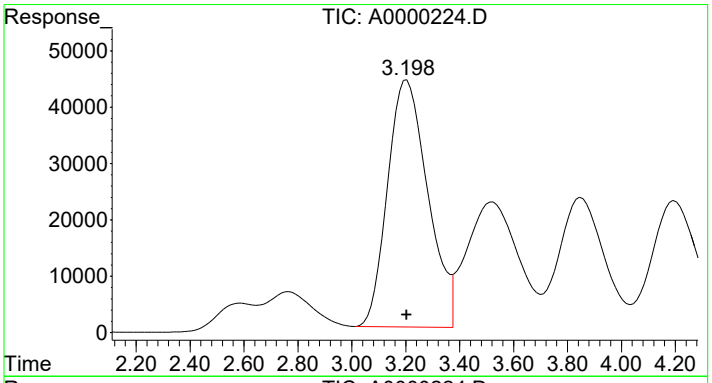
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000224.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 09:13:19
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:36:18 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:35:38 2024
Response via : Initial Calibration
Integrator: ChemStation

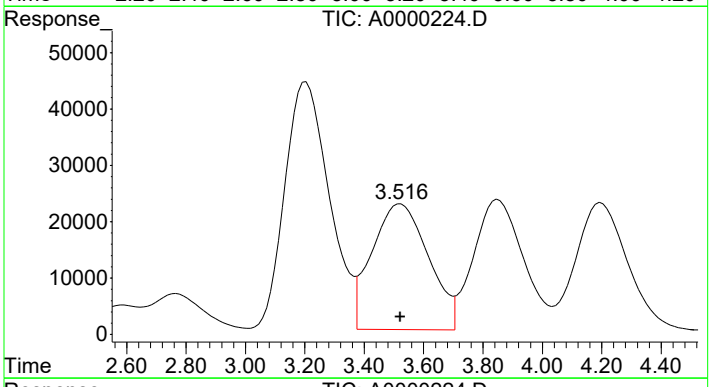
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





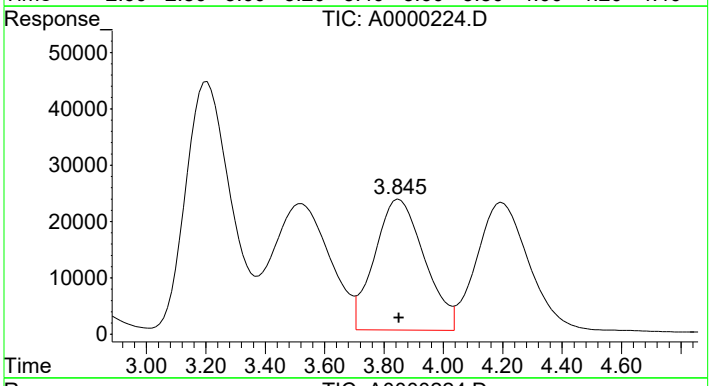
#1 Formic acid

R.T.: 3.204 min
Delta R.T.: 0.000 min
Response: 4540876
Conc: 52.32 ppm



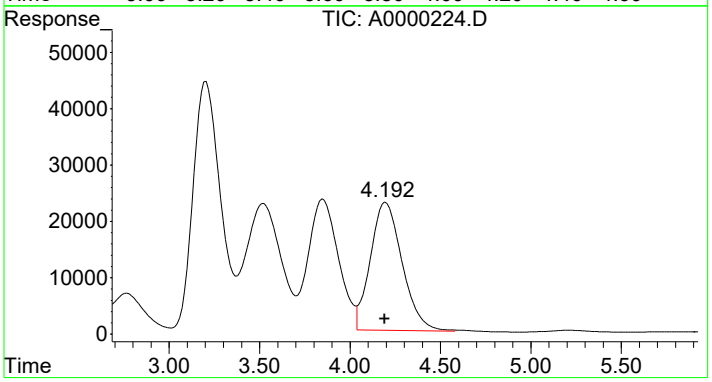
#2 Pyruvic acid

R.T.: 3.522 min
Delta R.T.: 0.000 min
Response: 2957416
Conc: 5.30 ppm



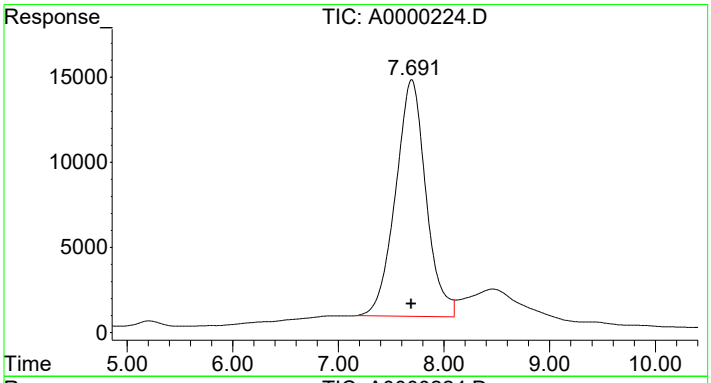
#3 Lactic Acid

R.T.: 3.851 min
Delta R.T.: 0.000 min
Response: 2707461
Conc: 52.84 ppm



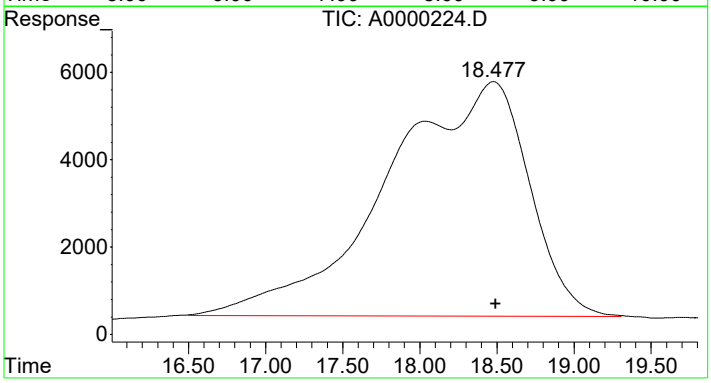
#4 Acetic Acid

R.T.: 4.192 min
Delta R.T.: 0.000 min
Response: 2781816
Conc: 53.30 ppm m



#5 Propionic Acid

R.T.: 7.691 min
Delta R.T.: -0.002 min
Response: 2774670
Conc: 52.03 ppm m



#6 Butyric Acid

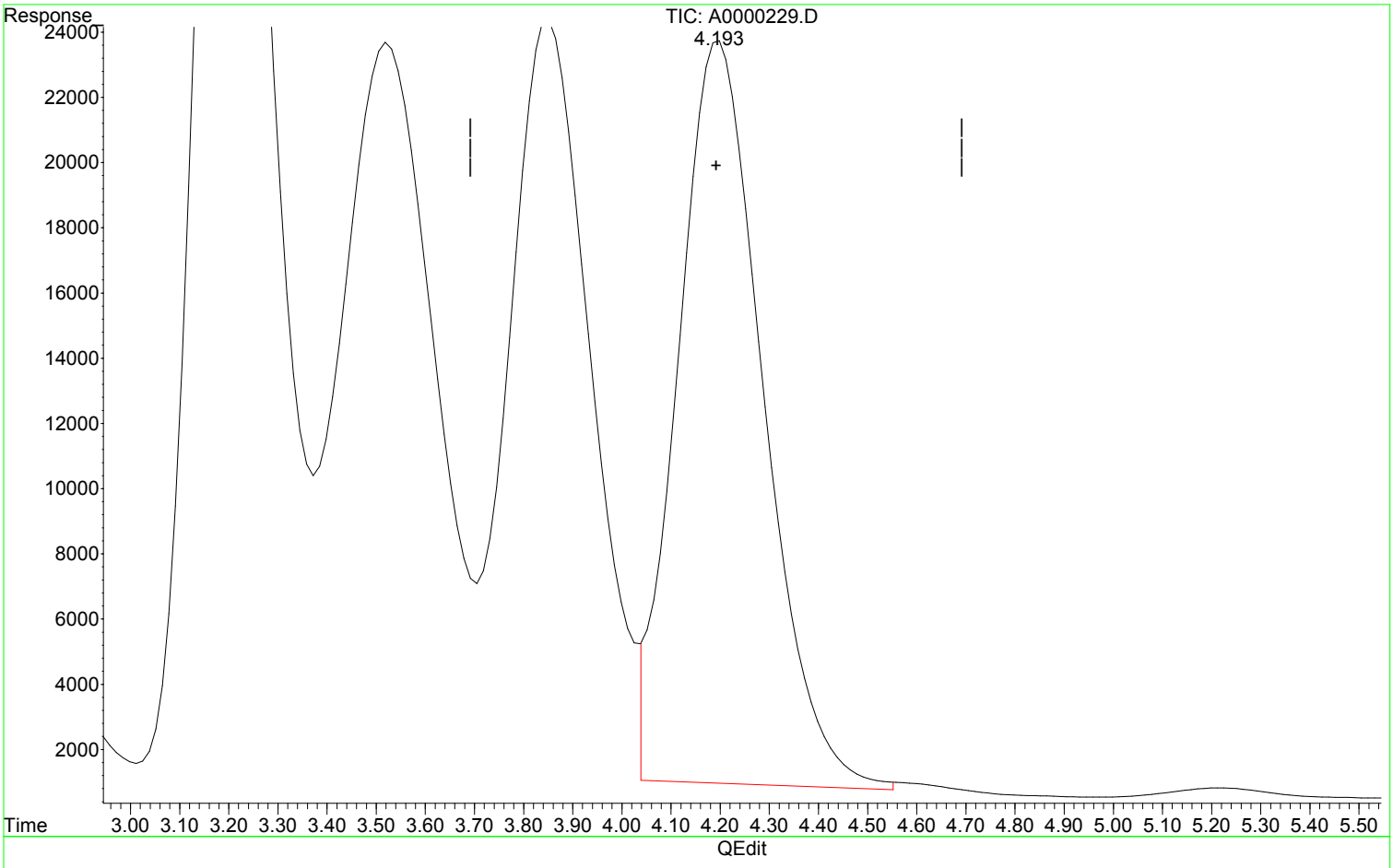
R.T.: 18.477 min
Delta R.T.: -0.014 min
Response: 3441589
Conc: 46.19 ppm m

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000229.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 11:52:15
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.193min 52.901 ppm m

response 2760803

Manual Integration:

After

Poor integration.

09/05/24

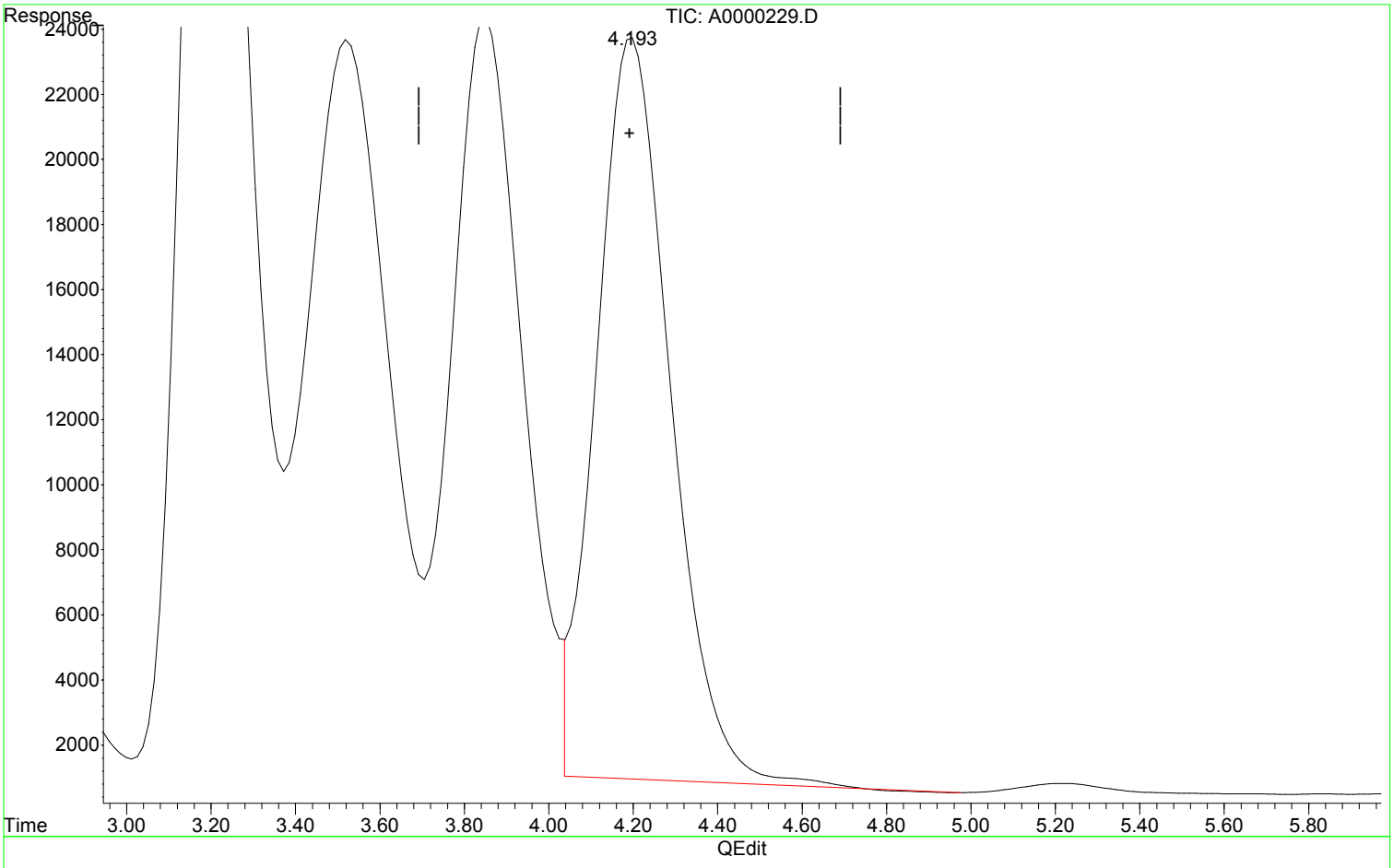
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000229.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 11:52:15
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.199min 53.611 ppm

response 2797853

Manual Integration:

Before

09/05/24

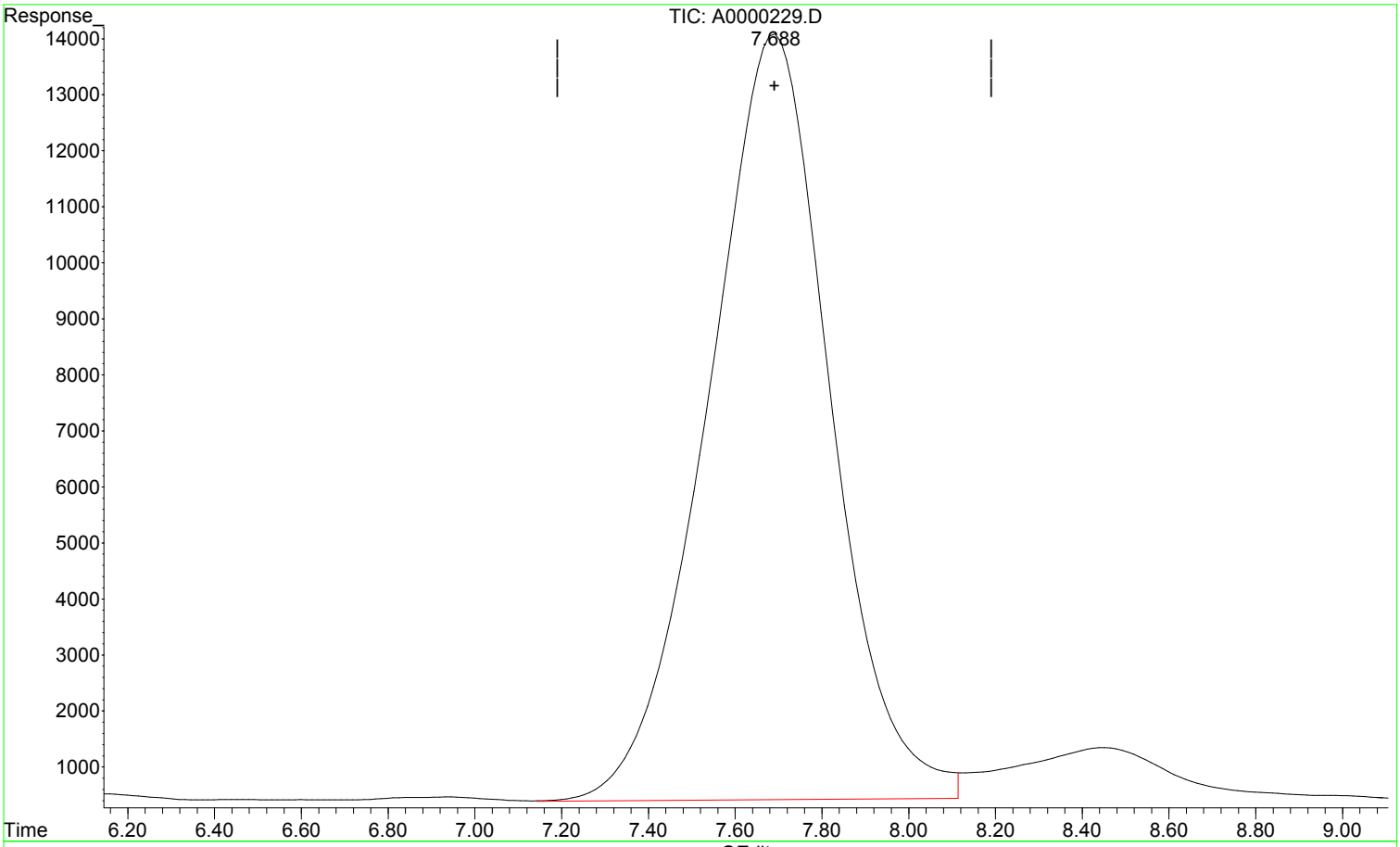
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000229.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 11:52:15
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.688min 49.861 ppm m

response 2658845

Manual Integration:

After

Poor integration.

09/05/24

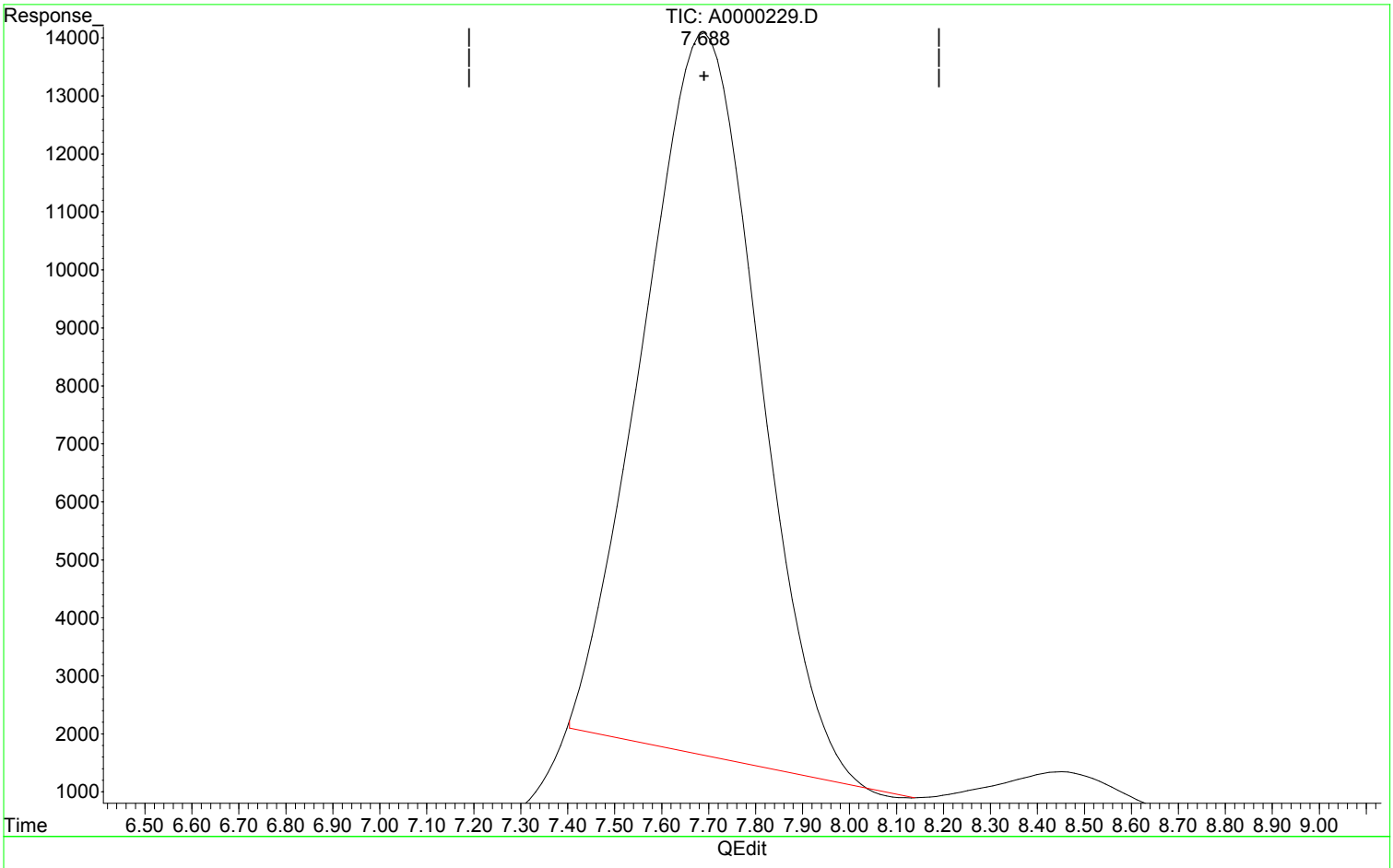
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000229.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 11:52:15
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

7.693min 39.930 ppm

response 2129309

Manual Integration:

Before

09/05/24

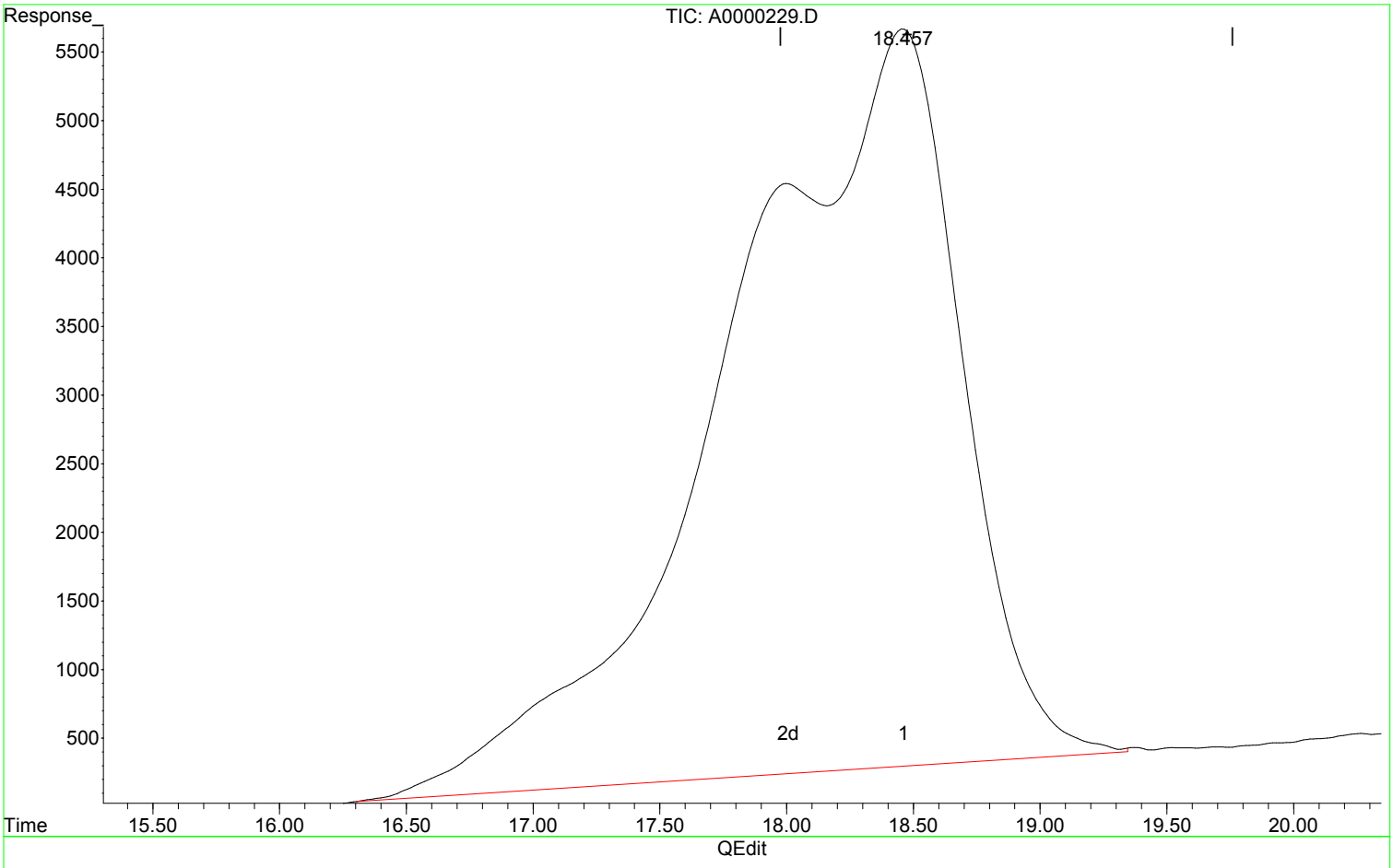
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000229.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 11:52:15
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.457min 45.815 ppm m

response 3413667

Manual Integration:

After

Poor integration.

09/05/24

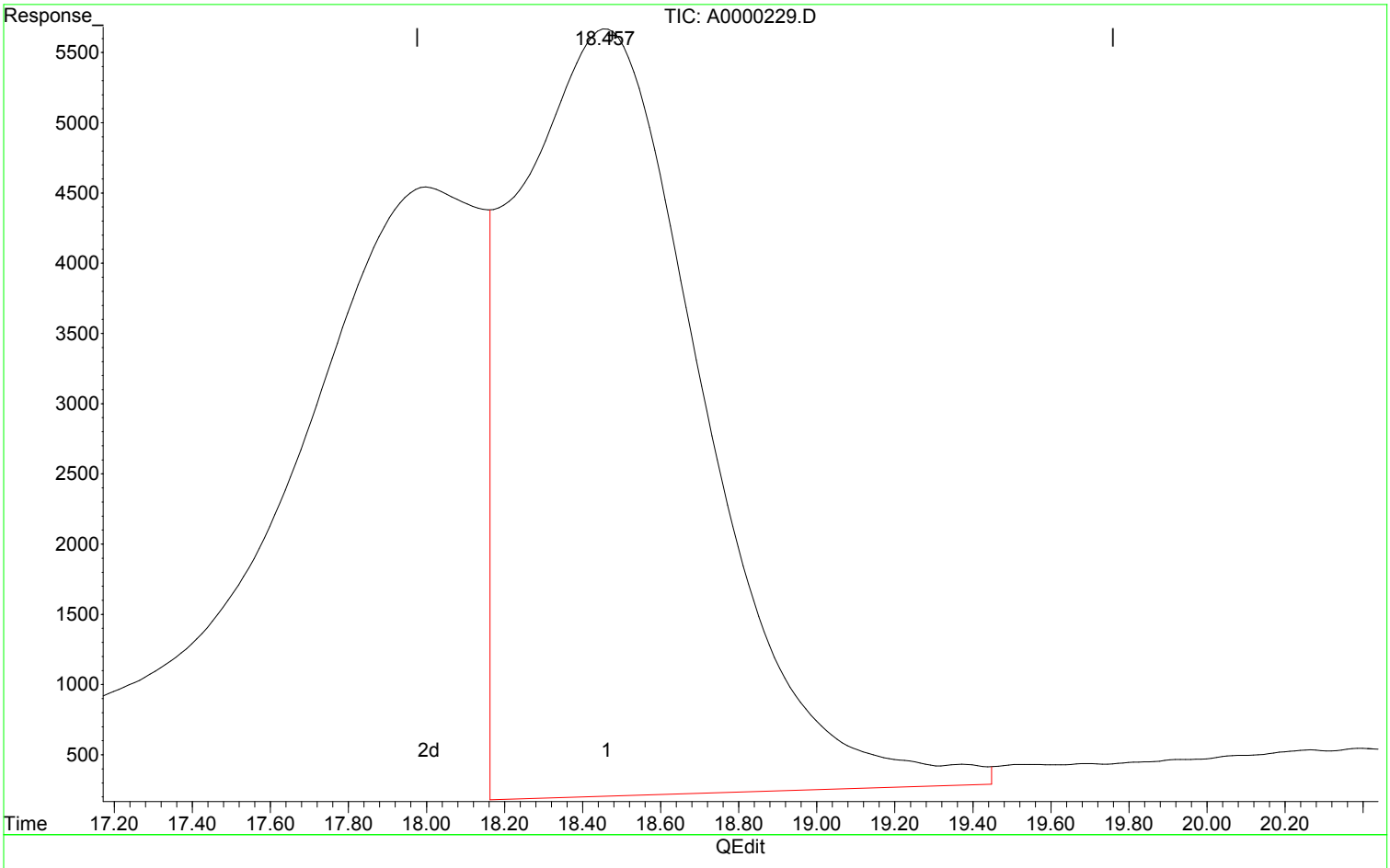
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000229.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 11:52:15
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

18.462min 24.551 ppm

response 1829293

Manual Integration:

Before

09/05/24

(+) = Expected Retention Time

1st AF 09/09/24
2nd AM 09/09/24

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000229.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 11:52:15
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 t	Formic acid	50.000	52.119	-4.2	101	0.00
2 T	Pyruvic acid	5.000	5.274	-5.5	112	0.00
3 T	Lactic Acid	50.000	52.597	-5.2	111	0.00
4 T	Acetic Acid	50.000	52.901	-5.8	103	0.00
5 T	Propionic Acid	50.000	49.861	0.3	96	0.00
6 T	Butyric Acid	50.000	45.815	8.4	90	-0.02

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000229.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 11:52:15
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.206	4523340	52.119	ppm	
2) T	Pyruvic acid	3.525	2942130	5.274	ppm	
3) T	Lactic Acid	3.852	2694905	52.597	ppm	
4) T	Acetic Acid	4.193	2760803	52.901	ppm	m
5) T	Propionic Acid	7.688	2658845	49.861	ppm	m
6) T	Butyric Acid	18.457	3413667	45.815	ppm	m

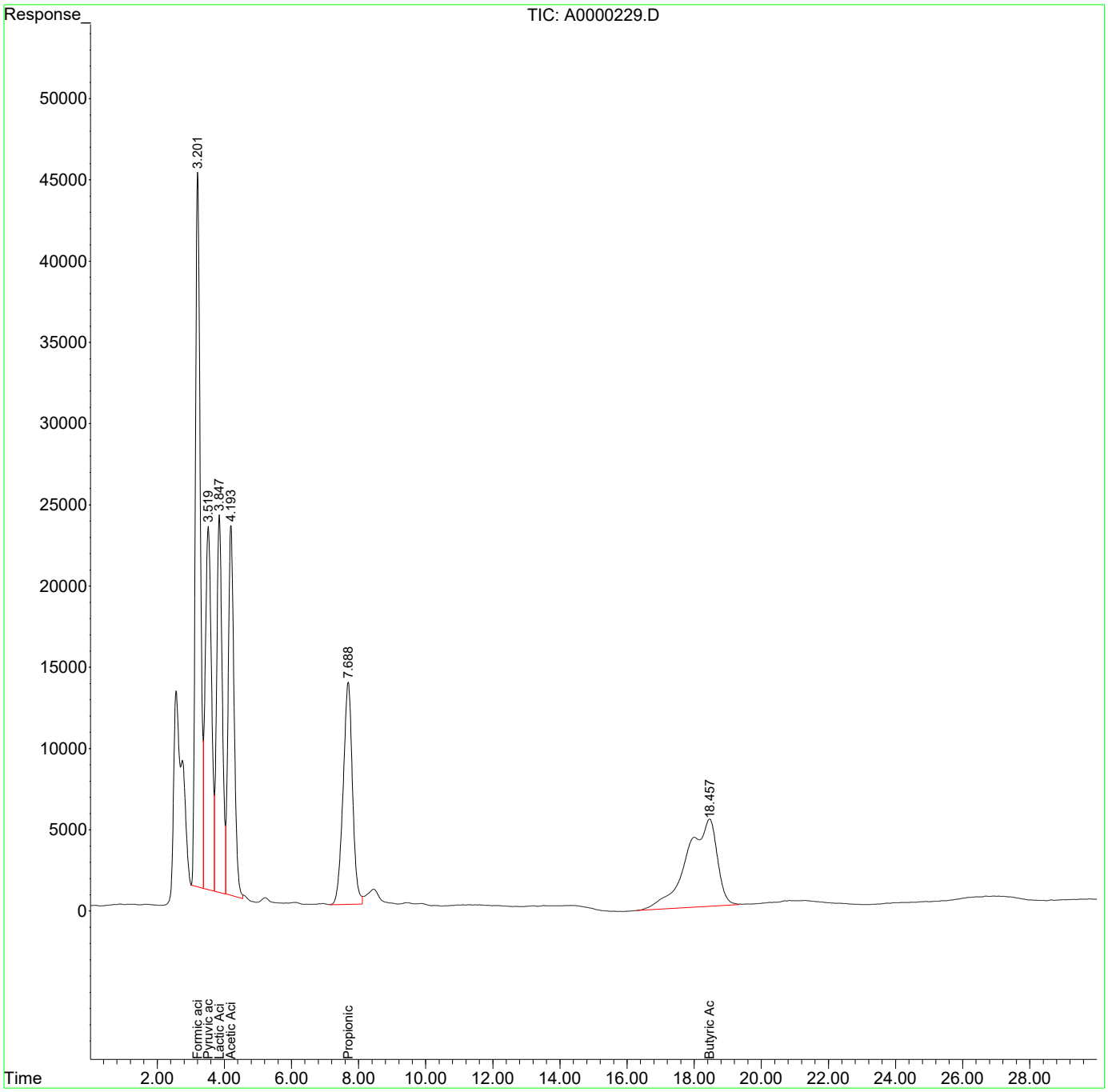
(f)=RT Delta > 1/2 Window (m)=manual int.

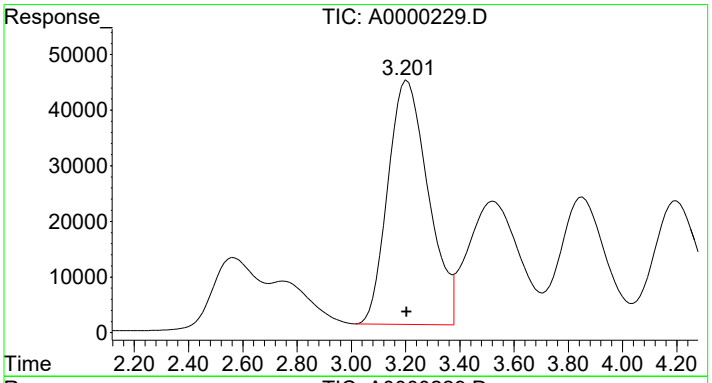
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\090424\
Data File : A0000229.D
Signal(s) : dad1A.ch
Acq On : 05-Sep-2024, 11:52:15
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Sep 05 13:37:37 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Thu Sep 05 13:37:10 2024
Response via : Initial Calibration
Integrator: ChemStation

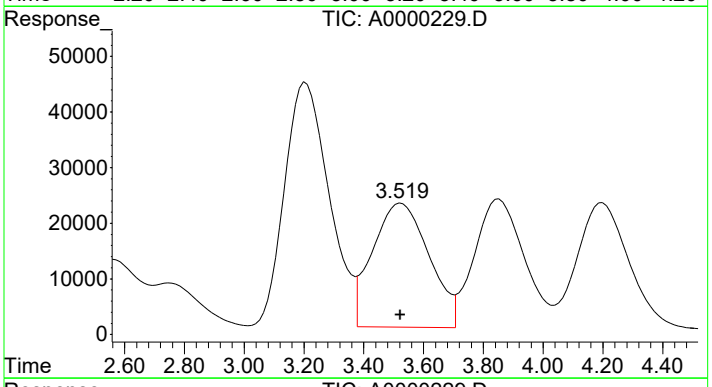
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





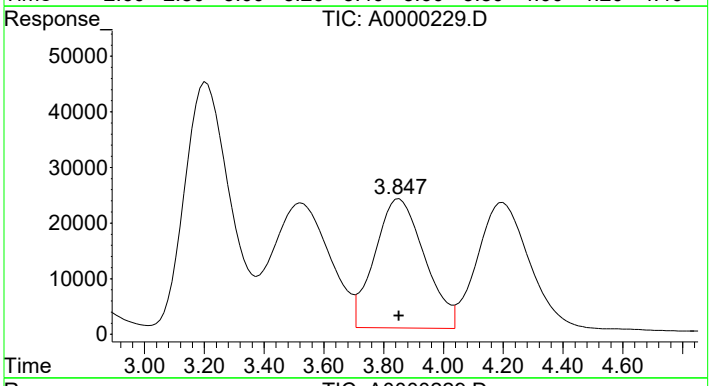
#1 Formic acid

R.T.: 3.206 min
Delta R.T.: 0.002 min
Response: 4523340
Conc: 52.12 ppm



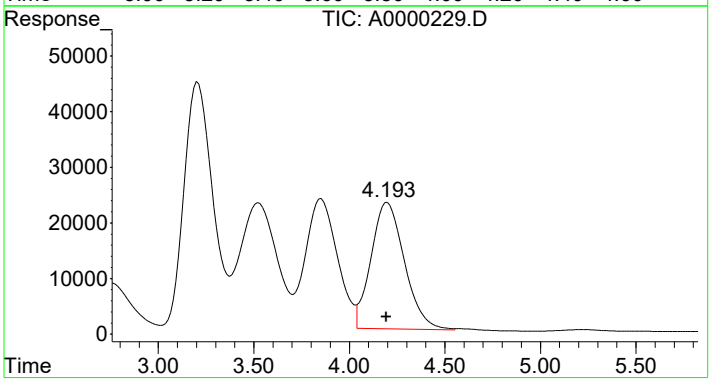
#2 Pyruvic acid

R.T.: 3.525 min
Delta R.T.: 0.002 min
Response: 2942130
Conc: 5.27 ppm



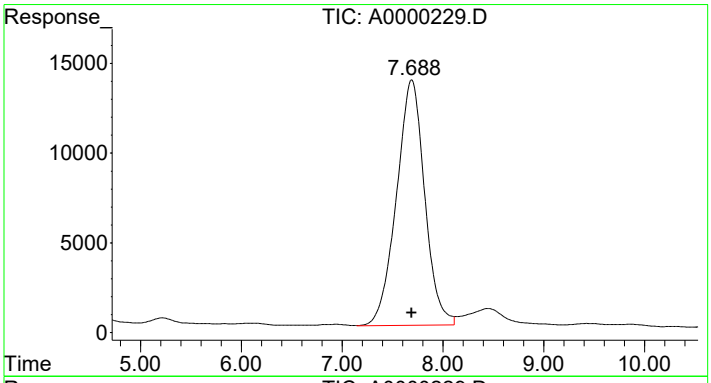
#3 Lactic Acid

R.T.: 3.852 min
Delta R.T.: 0.002 min
Response: 2694905
Conc: 52.60 ppm



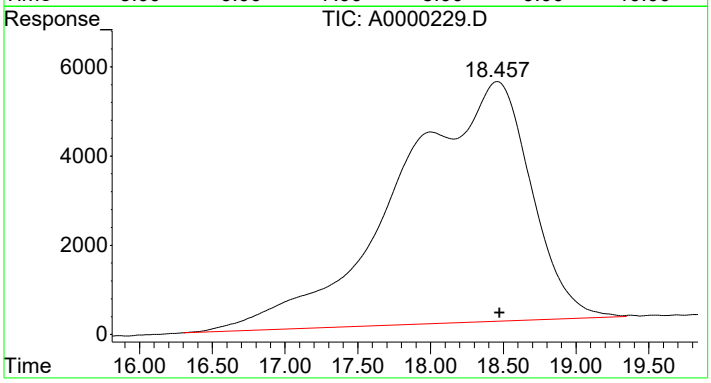
#4 Acetic Acid

R.T.: 4.193 min
Delta R.T.: 0.000 min
Response: 2760803
Conc: 52.90 ppm m



#5 Propionic Acid

R.T.: 7.688 min
Delta R.T.: -0.003 min
Response: 2658845
Conc: 49.86 ppm m



#6 Butyric Acid

R.T.: 18.457 min
Delta R.T.: -0.019 min
Response: 3413667
Conc: 45.82 ppm m

Metabolic Acids
Instrument: R-HPLC-08

Analyst: AFelser
Date: 7/11/24
ICAL: RC 240131

Run Method: METACIDS
Quant Method: 8-MA071124
LIMS Run#: 847278 & 847279

Setup:
Column: Synergi Hydro RP
Mobile Phase: 0.01 M KH_2PO_4 in 0.1% H_3PO_4
Mobile Phase ID: 236135

Col.Temp: 35°C Flow: 0.6 ml/min
ul Inj.: 50

Pos.	Sample	Diln.*	Stds. ID	pH	Filtered	File#	OK?	Comments
1	BLK			<2	n/a	A000020	—	
1	BLK					21	—	
2	last BLK					22	Y	
3	0.1 | 1 STD	1µL | 1mL	235845			23	Y	
4	0.2 | 2 STD	2µL | 1mL				24	Y	
5	0.5 | 5 STD	5µL | 1mL				25	Y	
6	1 | 10 STD	10µL | 1mL				26	Y	
7	2 | 20 STD	20µL | 1mL				27	Y	
8	5 | 50 STD	50µL | 1mL				28	Y	
9	10 | 100 STD	100µL | 1mL				29	Y	
10	20 | 200 STD	200µL | 1mL				30	Y	
11	40 | 400 STD	400µL | 1mL	↓			31	Y	
12	ICV 50	50µL | 1mL	235846			32	Y	
13	CCV	↓	235845			33	Y	
14	MB					34	Y	
15	MDL Sweep	2µL | 1mL	235846			35	Y	
16	MDL Blks	10µL | 1mL				36	Y	
17	LCS	20µL | 1mL				37	Y	
18	DLCS	↓	↓			38	Y	
19	R240596 7-001					39	Y	
20	R240596 8-001					40	Y	
21	↓ -001 MS		235846			41	Y	
22	↓ -001 DMS		↓			42	Y	
13	CCV	50µL | 1mL	235845	↓	↓	43	Y	

AFelser 7/15/24

Primary: 235845 exp: 9/23/24
Secondary: 235846 Exp: 12/3/24
pH Paper: 234611
Acidified DI: 234459
Filters: n/a

MB is Acidified DI

*Notation for standards is Amount of Standard/Final Volume with Acidified DI.

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000032.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 18:33:09
Operator : AFelser
Sample : ICV 50
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:57:33 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:51:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc Units
Target Compounds				
1) t	Formic acid	3.239	4567508	52.628 ppm
2) T	Pyruvic acid	3.613	2744485	4.924 ppm
3) T	Lactic Acid	3.970	2652914	51.786 ppm
4) T	Acetic Acid	4.332	2859101	54.784 ppm
5) T	Propionic Acid	8.238	2665926	49.993 ppm
6) T	Butyric Acid	20.418	3675537	49.330 ppm

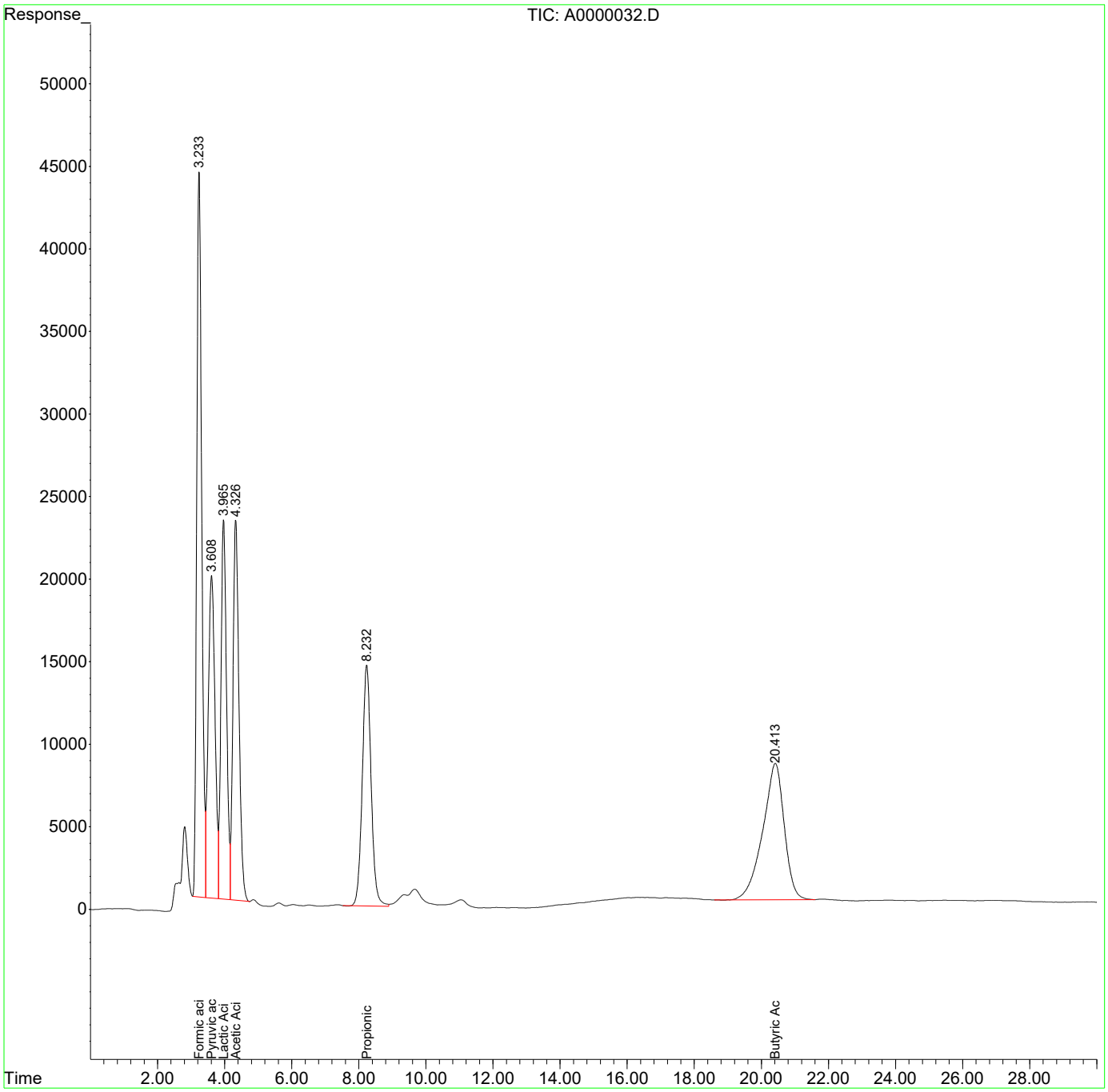
(f)=RT Delta > 1/2 Window (m)=manual int.

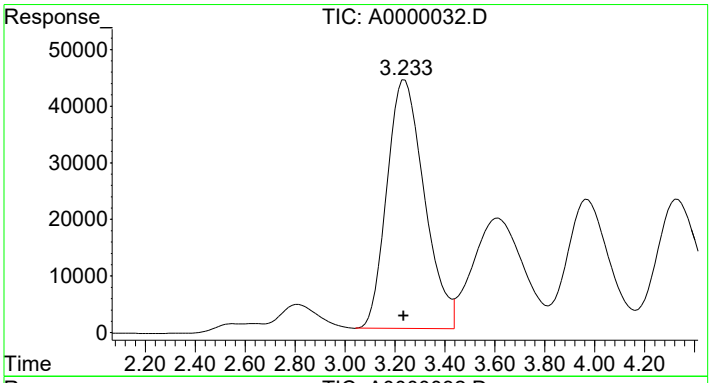
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000032.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 18:33:09
Operator : AFelser
Sample : ICV 50
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:57:33 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:51:54 2024
Response via : Initial Calibration
Integrator: ChemStation

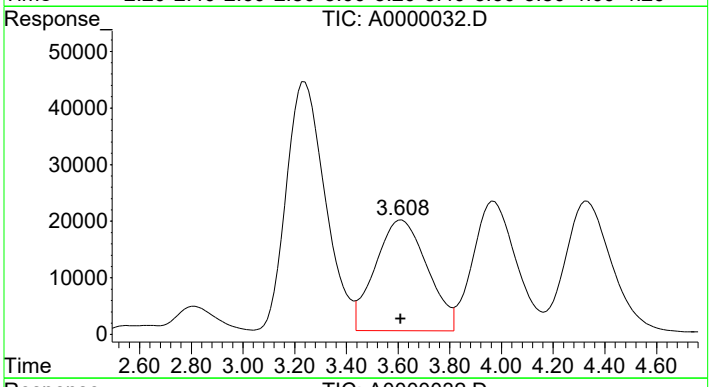
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





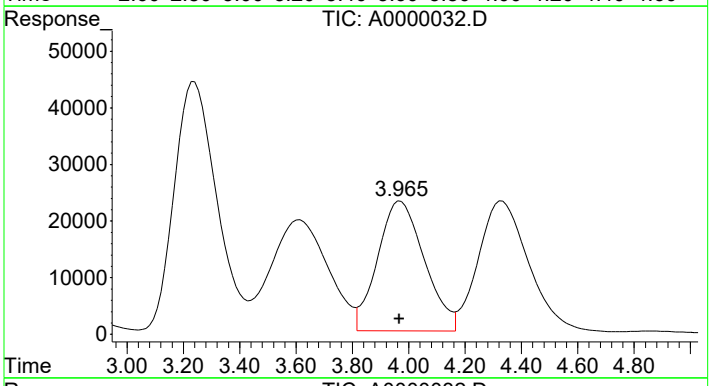
#1 Formic acid

R.T.: 3.239 min
Delta R.T.: 0.004 min
Response: 4567508
Conc: 52.63 ppm



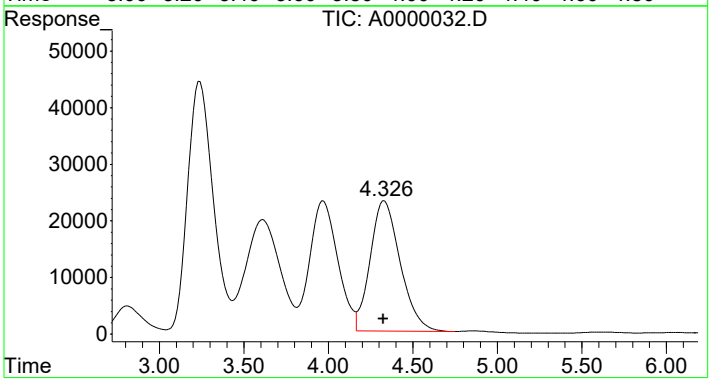
#2 Pyruvic acid

R.T.: 3.613 min
Delta R.T.: 0.003 min
Response: 2744485
Conc: 4.92 ppm



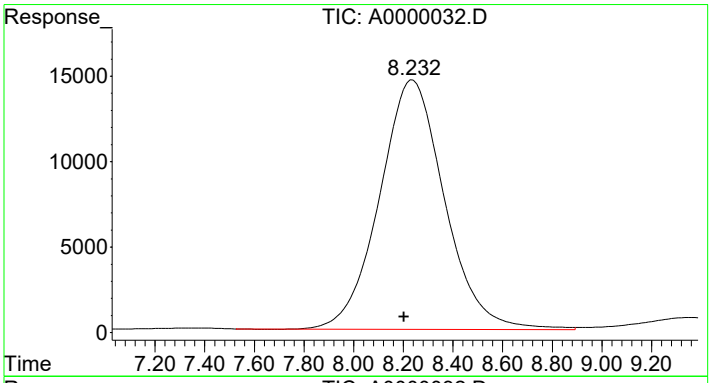
#3 Lactic Acid

R.T.: 3.970 min
Delta R.T.: 0.004 min
Response: 2652914
Conc: 51.79 ppm



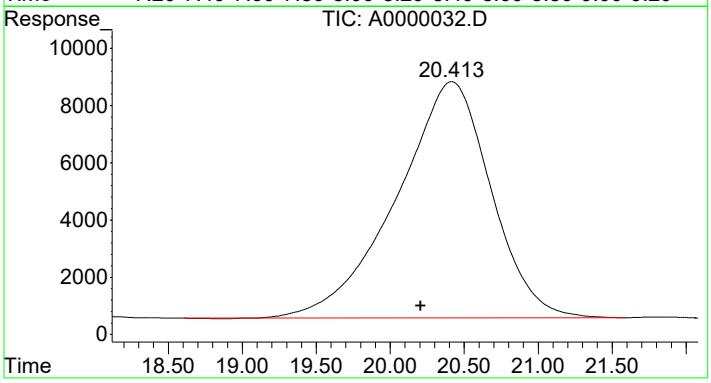
#4 Acetic Acid

R.T.: 4.332 min
Delta R.T.: 0.008 min
Response: 2859101
Conc: 54.78 ppm



#5 Propionic Acid

R.T.: 8.238 min
Delta R.T.: 0.035 min
Response: 2665926
Conc: 49.99 ppm



#6 Butyric Acid

R.T.: 20.418 min
Delta R.T.: 0.211 min
Response: 3675537
Conc: 49.33 ppm

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000022.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 13:15:19
Operator : AFelser
Sample : INST BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:57:21 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:51:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) t	Formic acid	0.000	0	N.D.	ppm
2) T	Pyruvic acid	0.000	0	N.D.	ppm
3) T	Lactic Acid	0.000	0	N.D.	ppm
4) T	Acetic Acid	0.000	0	N.D.	ppm
5) T	Propionic Acid	0.000	0	N.D.	ppm
6) T	Butyric Acid	0.000	0	N.D.	ppm

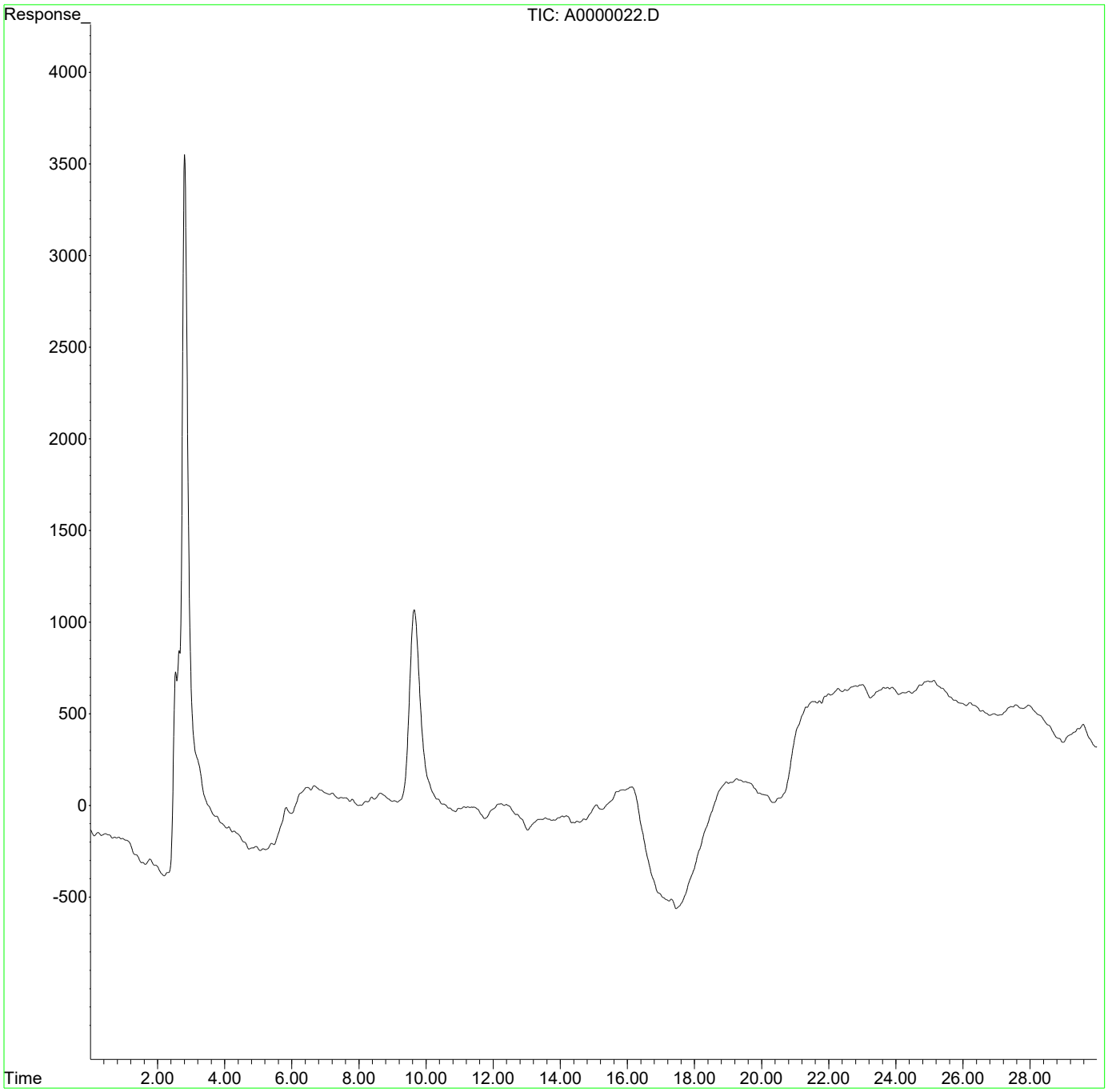
(f)=RT Delta > 1/2 Window (m)=manual int.

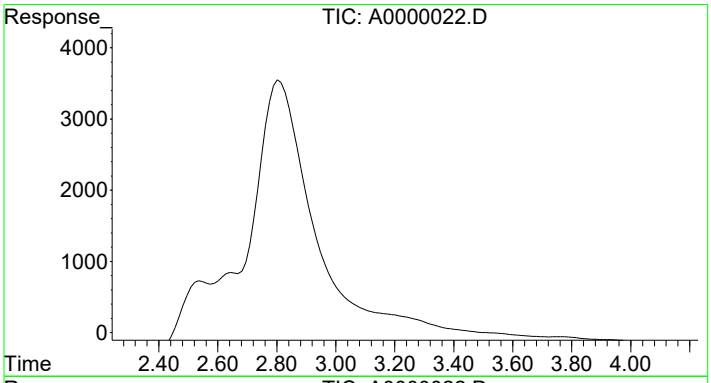
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000022.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 13:15:19
Operator : AFelser
Sample : INST BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:57:21 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:51:54 2024
Response via : Initial Calibration
Integrator: ChemStation

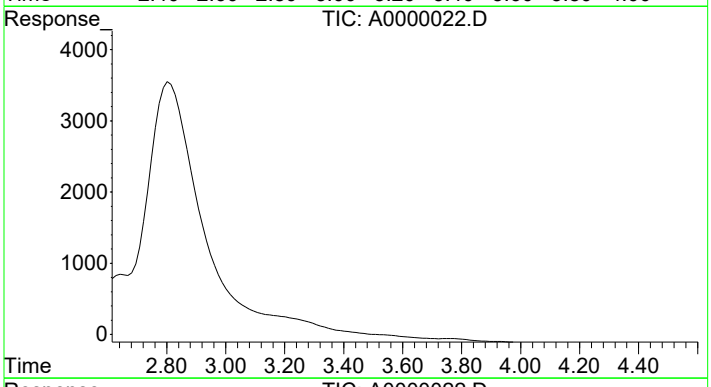
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





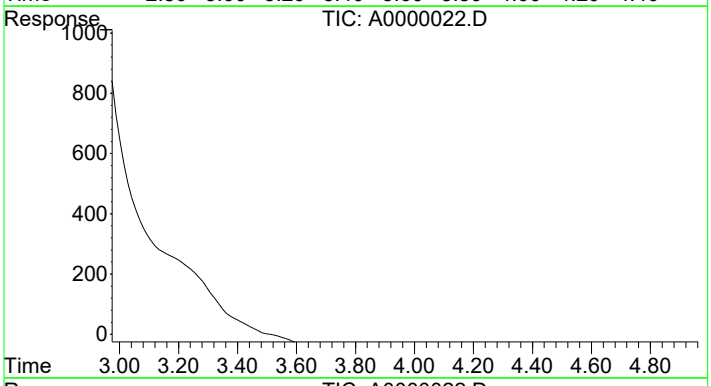
#1 Formic acid

R.T.: 0.000 min
Exp R.T. : 3.235 min
Response: 0
Conc: N.D.



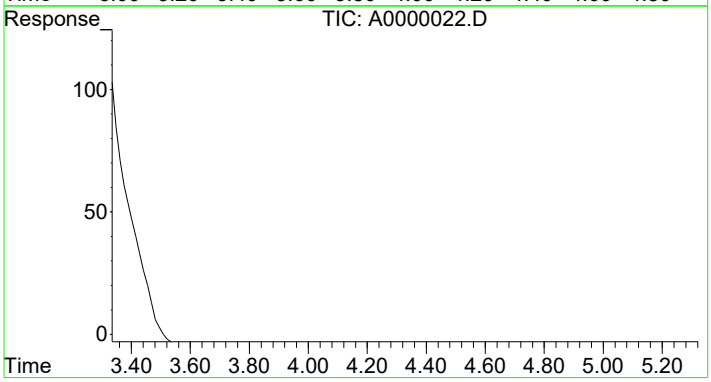
#2 Pyruvic acid

R.T.: 0.000 min
Exp R.T. : 3.610 min
Response: 0
Conc: N.D.



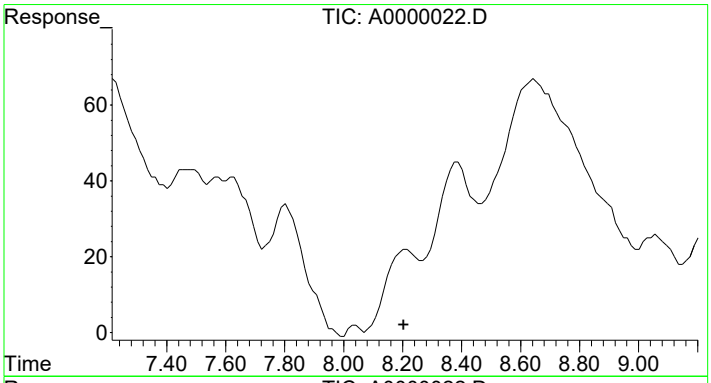
#3 Lactic Acid

R.T.: 0.000 min
Exp R.T. : 3.966 min
Response: 0
Conc: N.D.



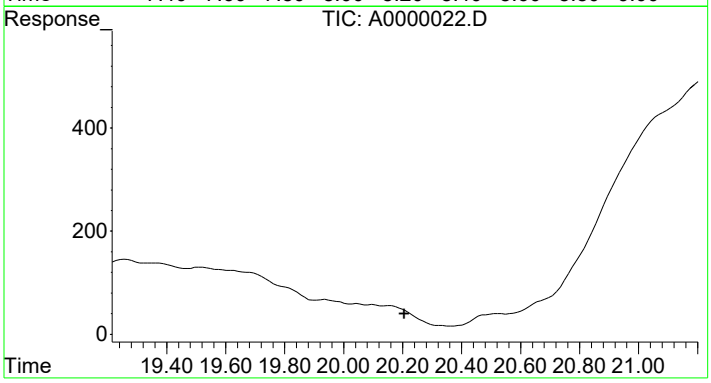
#4 Acetic Acid

R.T.: 0.000 min
Exp R.T. : 4.324 min
Response: 0
Conc: N.D.



#5 Propionic Acid

R.T.: 0.000 min
Exp R.T. : 8.203 min
Response: 0
Conc: N.D.



#6 Butyric Acid

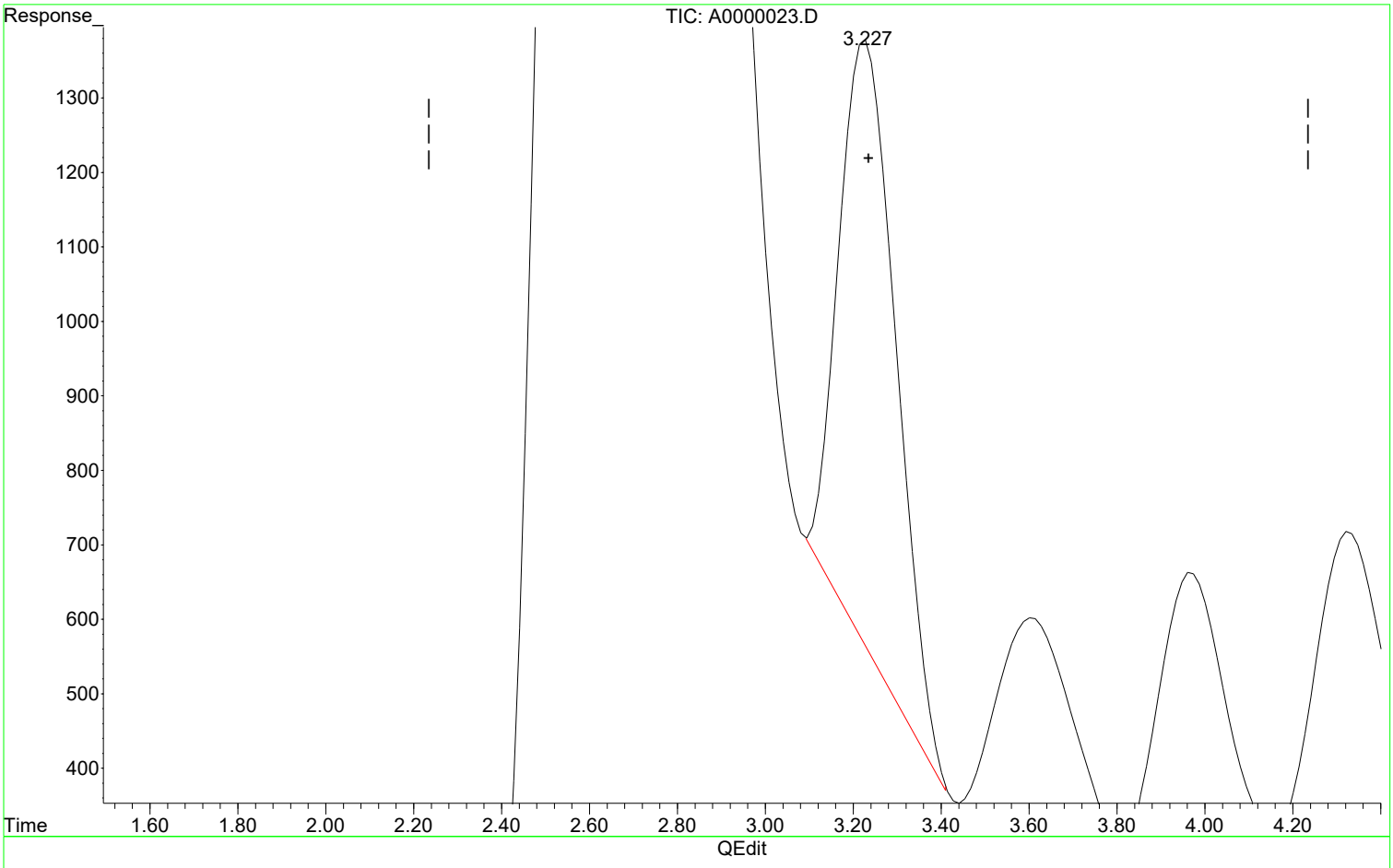
R.T.: 0.000 min
Exp R.T. : 20.206 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000023.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 13:47:08
Operator : AFelser
Sample : 0.1/1 STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:46:57 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)

3.227min 0.823 ppm m

response 73754

Manual Integration:

After

Poor integration.

07/12/24

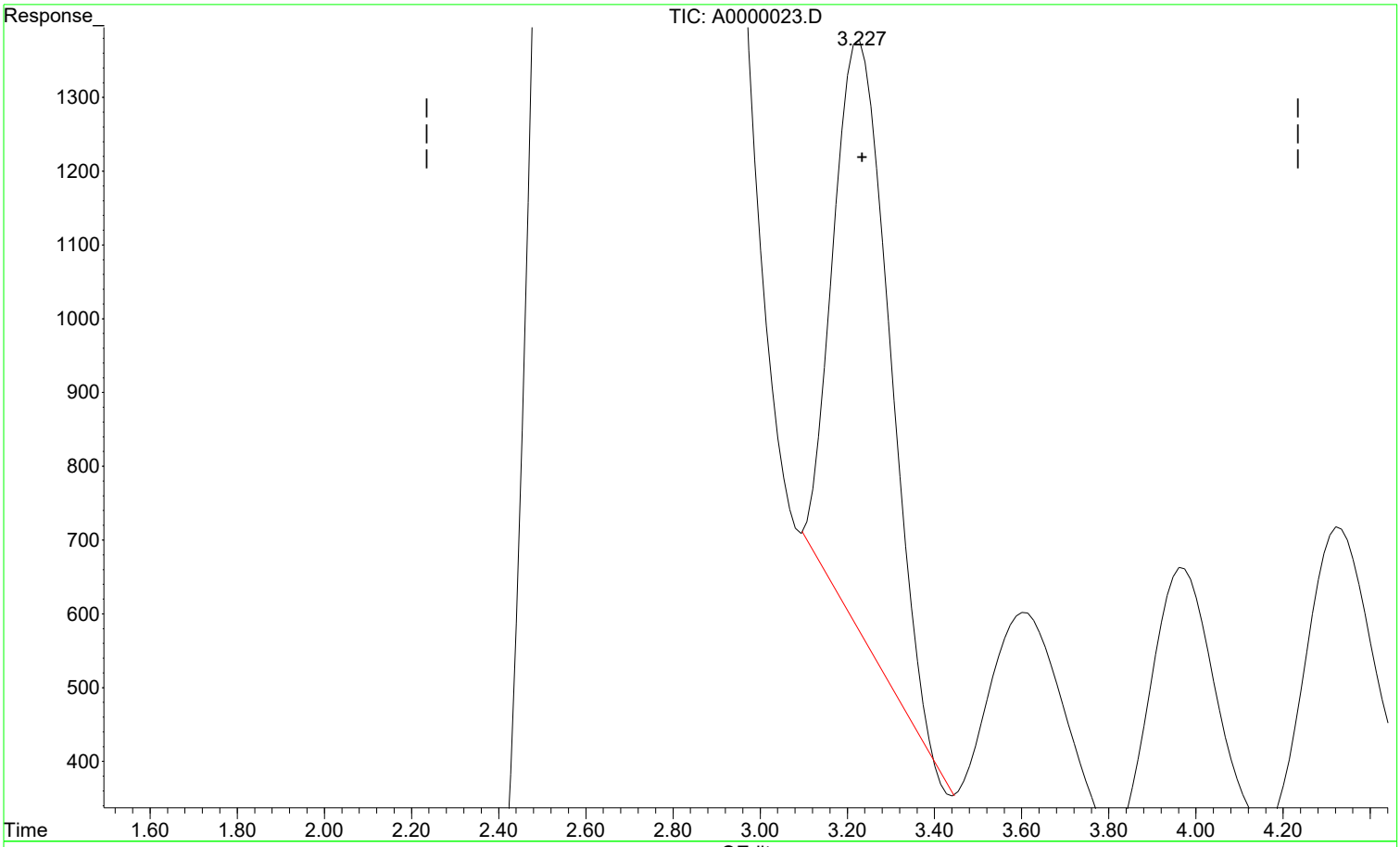
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000023.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 13:47:08
Operator : AFelser
Sample : 0.1/1 STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:46:57 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)

3.228min 0.805 ppm

response 72176

Manual Integration:

Before

07/12/24

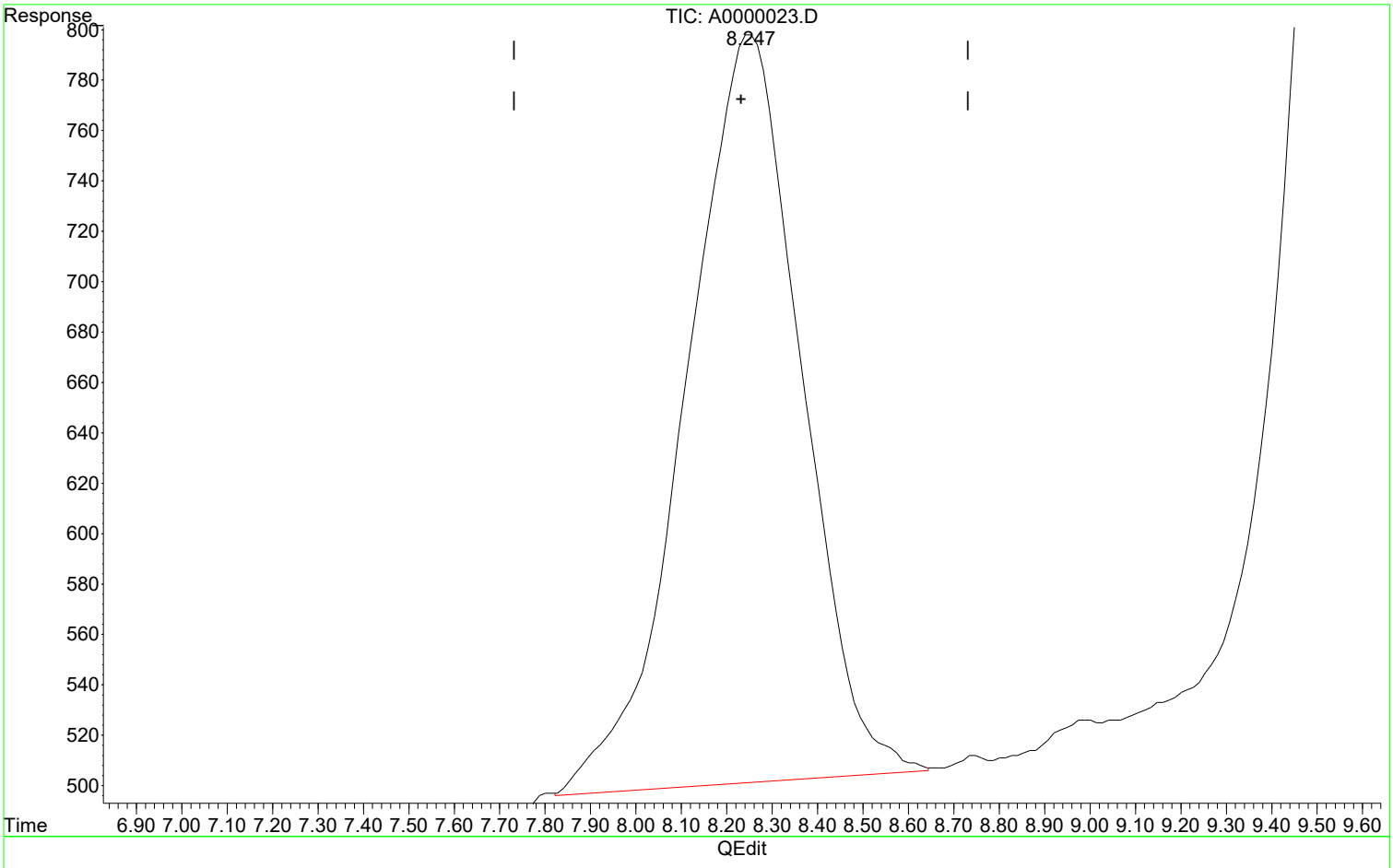
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000023.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 13:47:08
Operator : AFelser
Sample : 0.1/1 STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:46:57 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

8.247min 0.944 ppm m

response 52169

Manual Integration:

After

Poor integration.

07/12/24

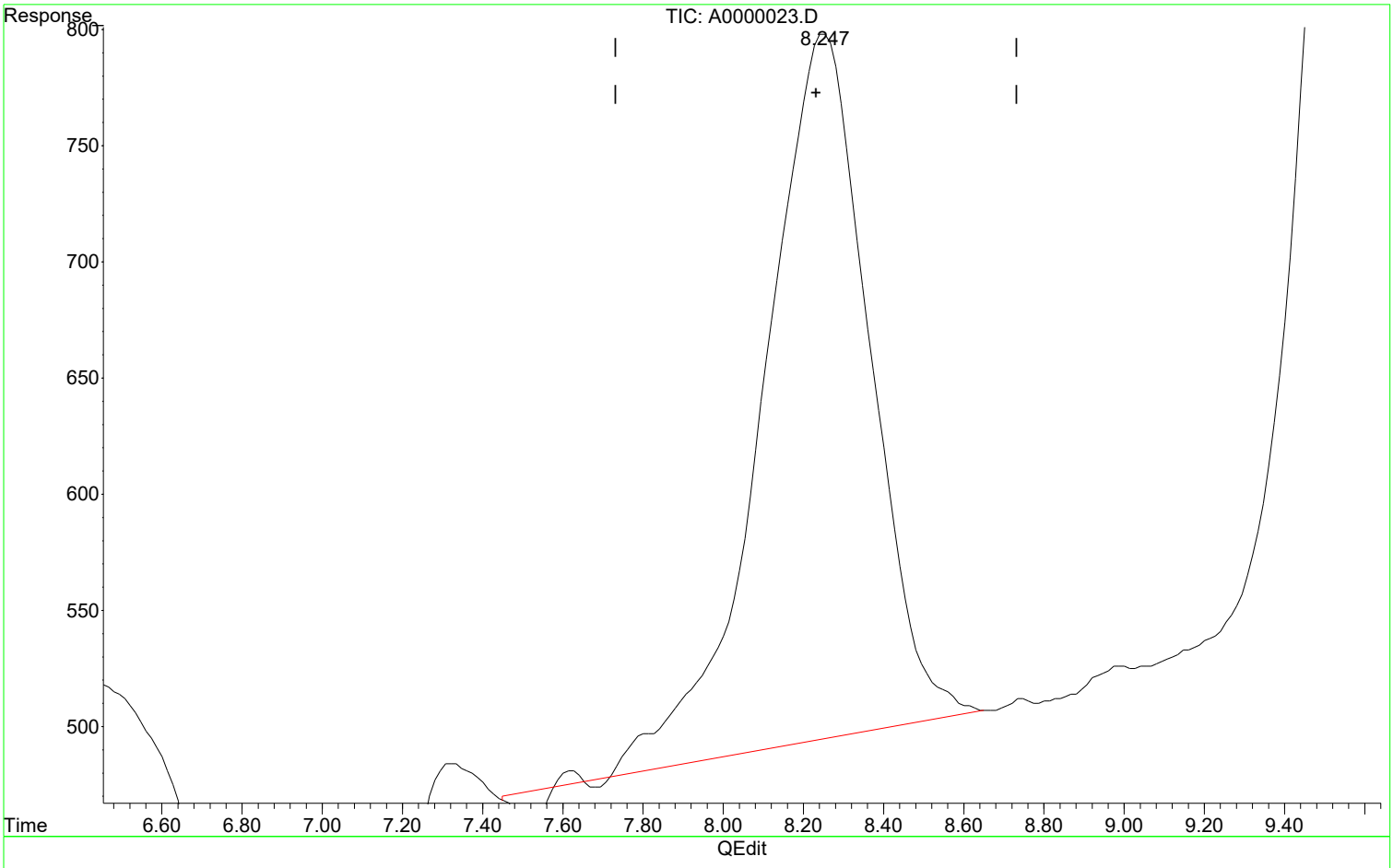
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000023.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 13:47:08
Operator : AFelser
Sample : 0.1/1 STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:46:57 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

8.254min 1.010 ppm

response 55819

Manual Integration:

Before

07/12/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000023.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 13:47:08
Operator : AFelser
Sample : 0.1/1 STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:46:57 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.227	73754	0.823	ppm	m
2) T	Pyruvic acid	3.610	29971	0.057	ppm	
3) T	Lactic Acid	3.972	34131	0.705	ppm	
4) T	Acetic Acid	4.331	43454	0.811	ppm	
5) T	Propionic Acid	8.247	52169	0.944	ppm	m
6) T	Butyric Acid	0.000	0	N.D.	ppm	d

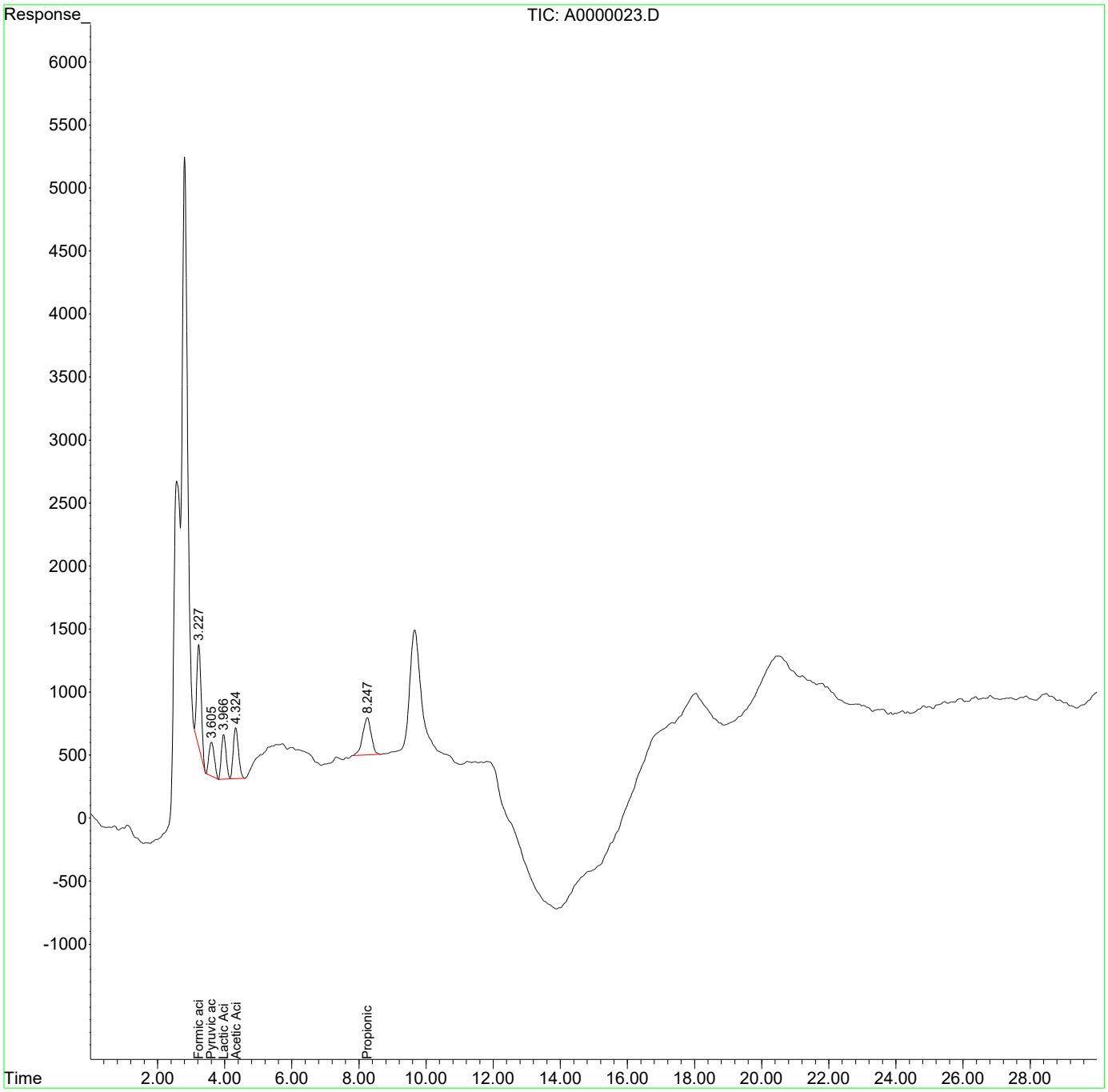
(f)=RT Delta > 1/2 Window (m)=manual int.

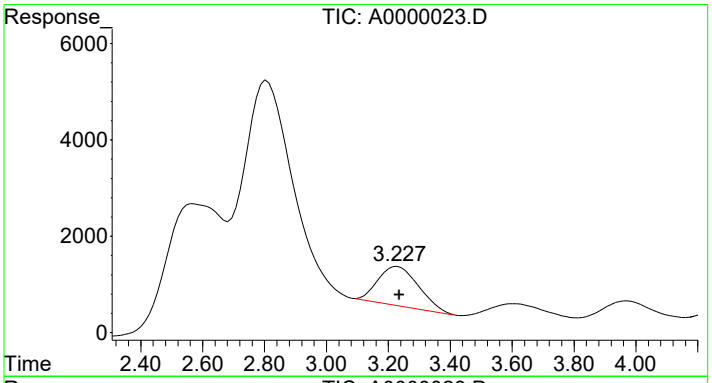
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000023.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 13:47:08
Operator : AFelser
Sample : 0.1/1 STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:46:57 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

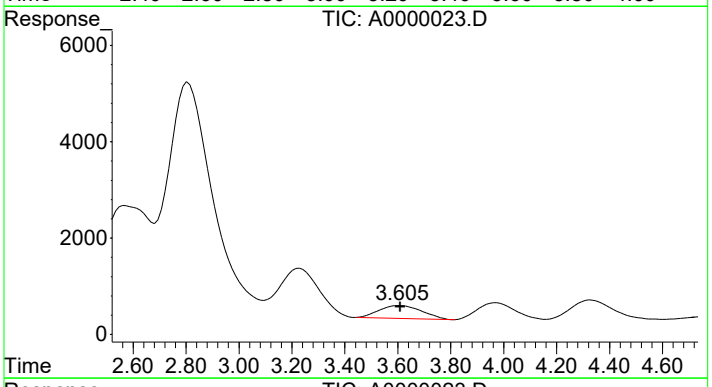
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





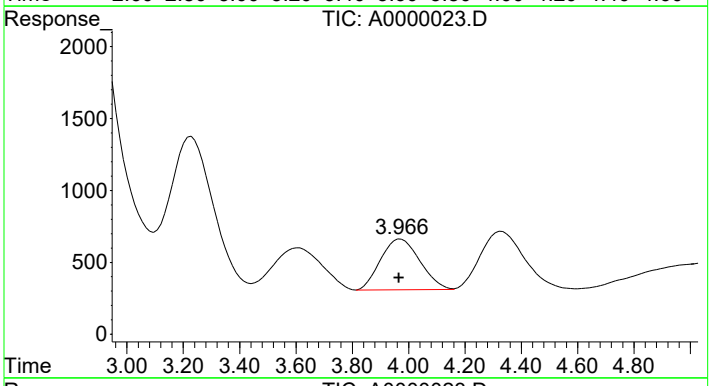
#1 Formic acid

R.T.: 3.227 min
Delta R.T.: -0.008 min
Response: 73754
Conc: 0.82 ppm m



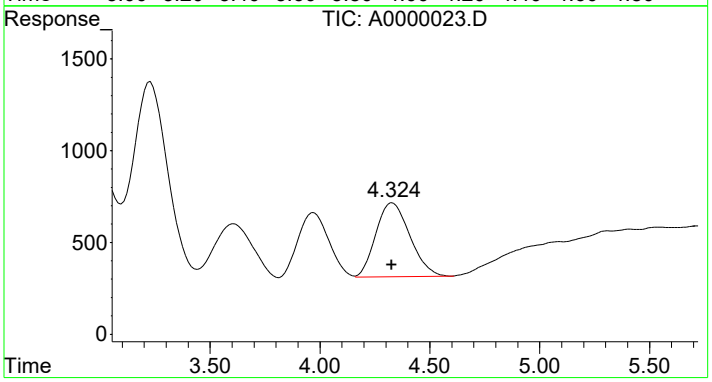
#2 Pyruvic acid

R.T.: 3.610 min
Delta R.T.: 0.000 min
Response: 29971
Conc: 0.06 ppm



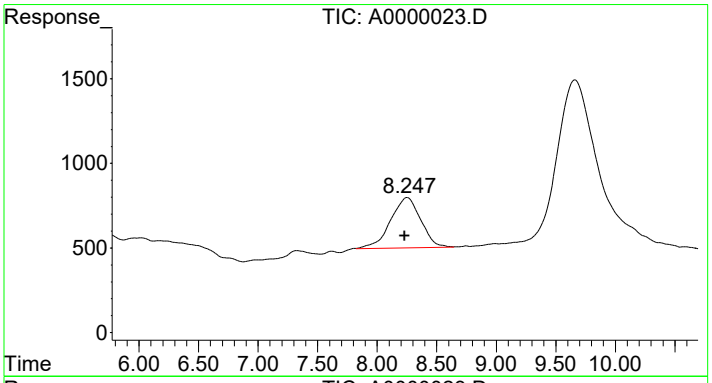
#3 Lactic Acid

R.T.: 3.972 min
Delta R.T.: 0.006 min
Response: 34131
Conc: 0.70 ppm



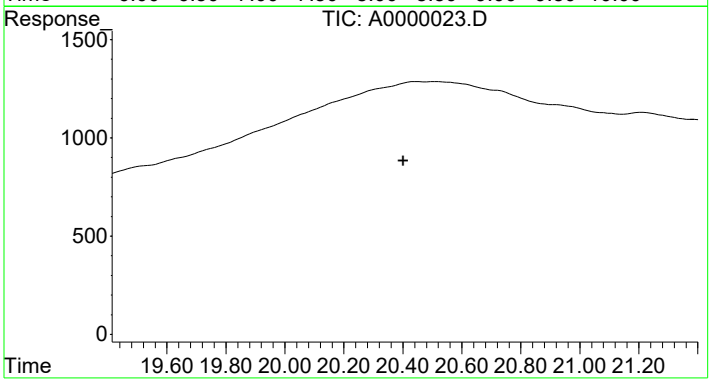
#4 Acetic Acid

R.T.: 4.331 min
Delta R.T.: 0.005 min
Response: 43454
Conc: 0.81 ppm



#5 Propionic Acid

R.T.: 8.247 min
Delta R.T.: 0.015 min
Response: 52169
Conc: 0.94 ppm m



#6 Butyric Acid

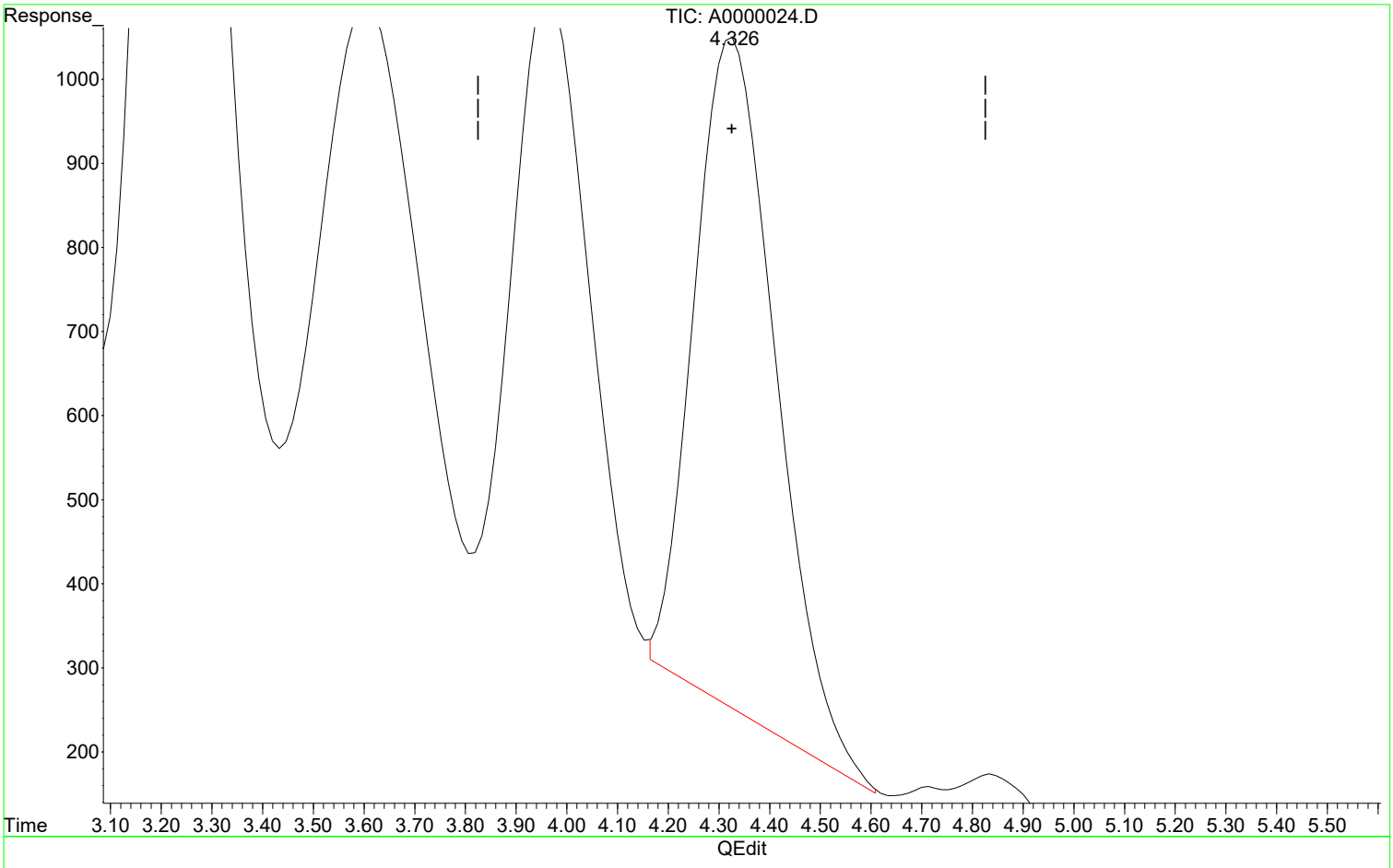
R.T.: 0.000 min
Exp R.T. : 20.402 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000024.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 14:18:55
Operator : AFelser
Sample : 0.2/2 STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:46:59 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.326min 1.671 ppm m

response 89561

Manual Integration:

After

Poor integration.

07/12/24

(+) = Expected Retention Time

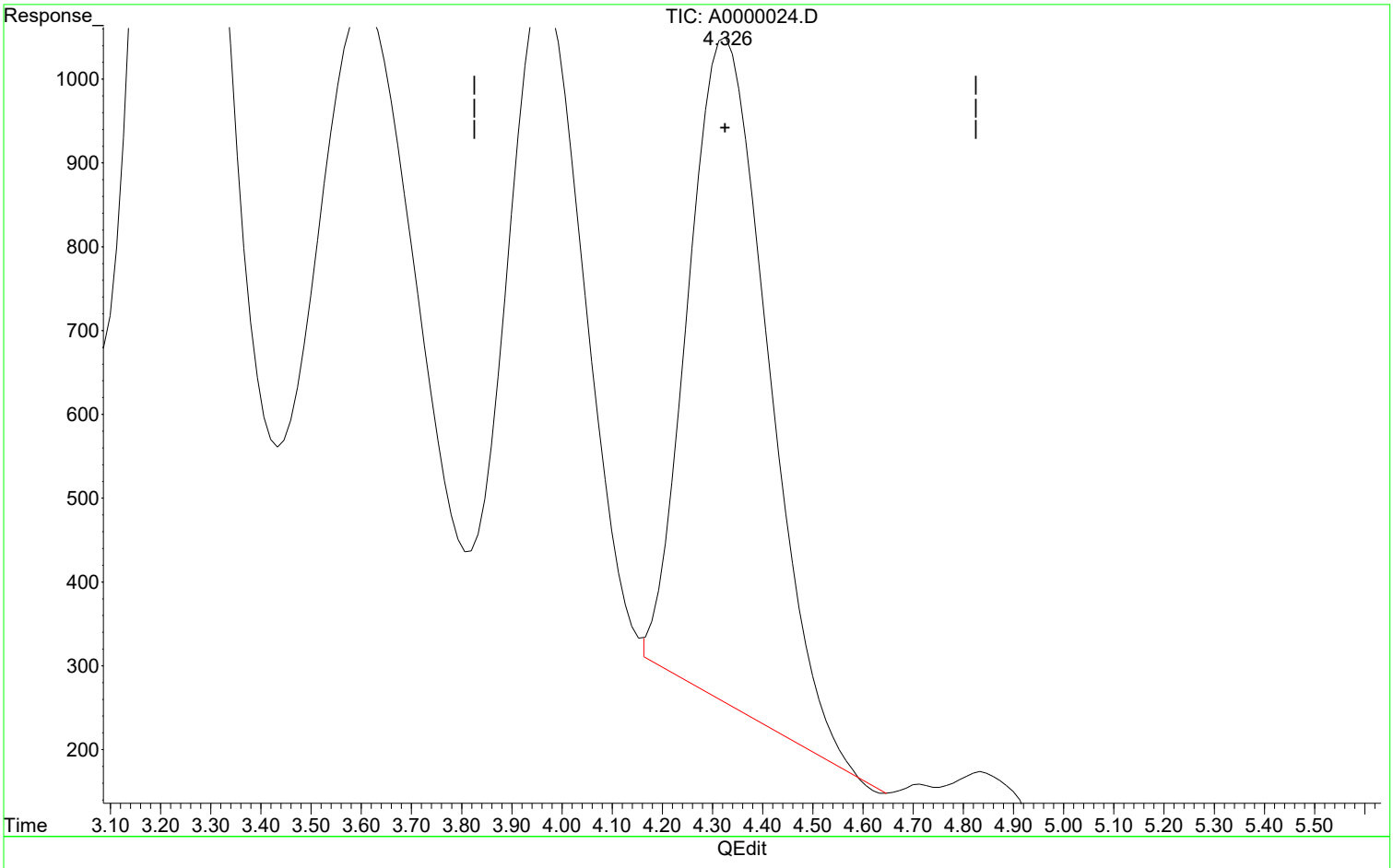
1st AF 07/15/24
2nd BA 07/16/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000024.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 14:18:55
Operator : AFelser
Sample : 0.2/2 STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:46:59 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)

4.327min 1.655 ppm

response 88699

Manual Integration:

Before

07/12/24

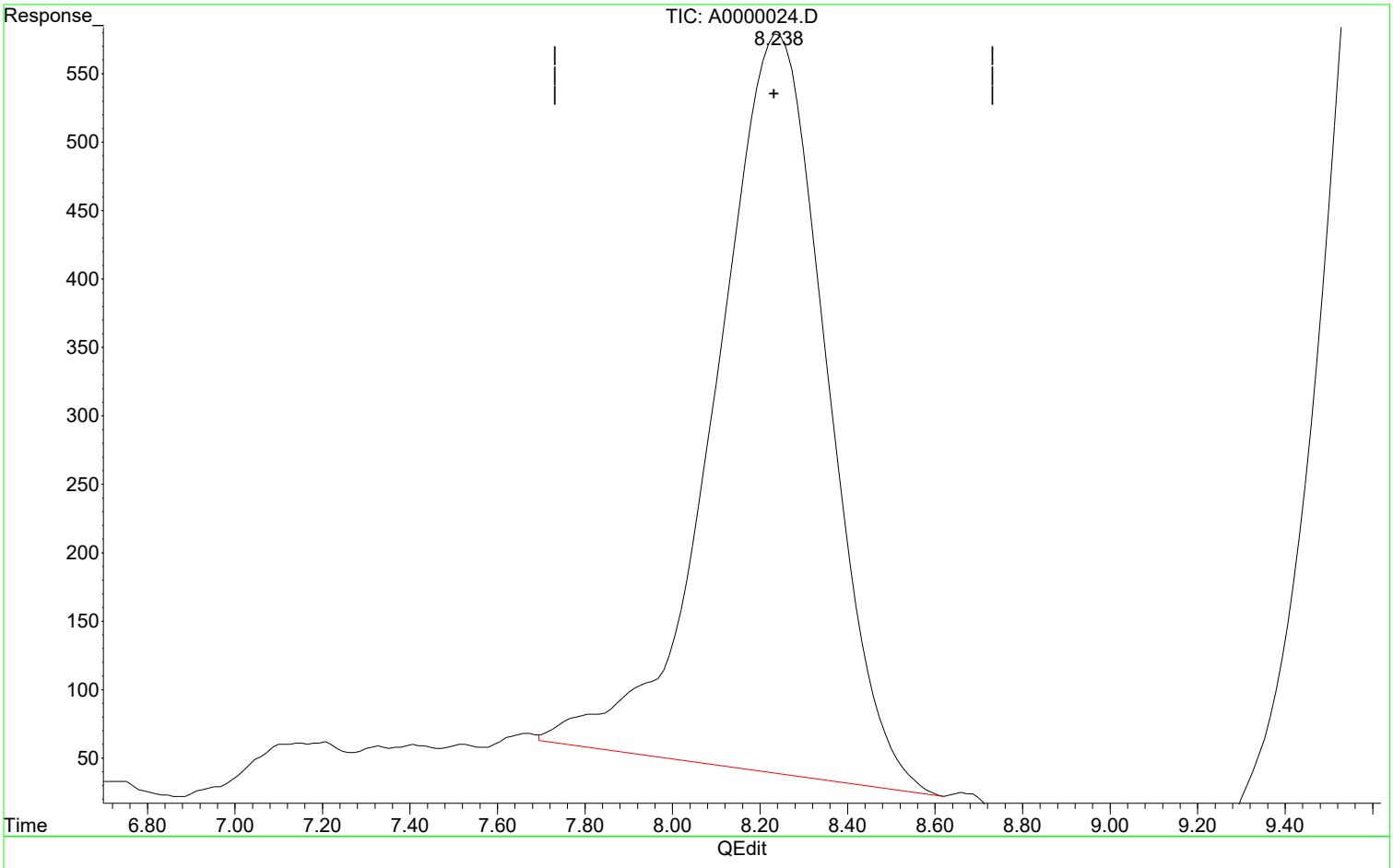
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000024.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 14:18:55
Operator : AFelser
Sample : 0.2/2 STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:46:59 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

8.238min 1.742 ppm m

response 96267

Manual Integration:

After

Poor integration.

07/12/24

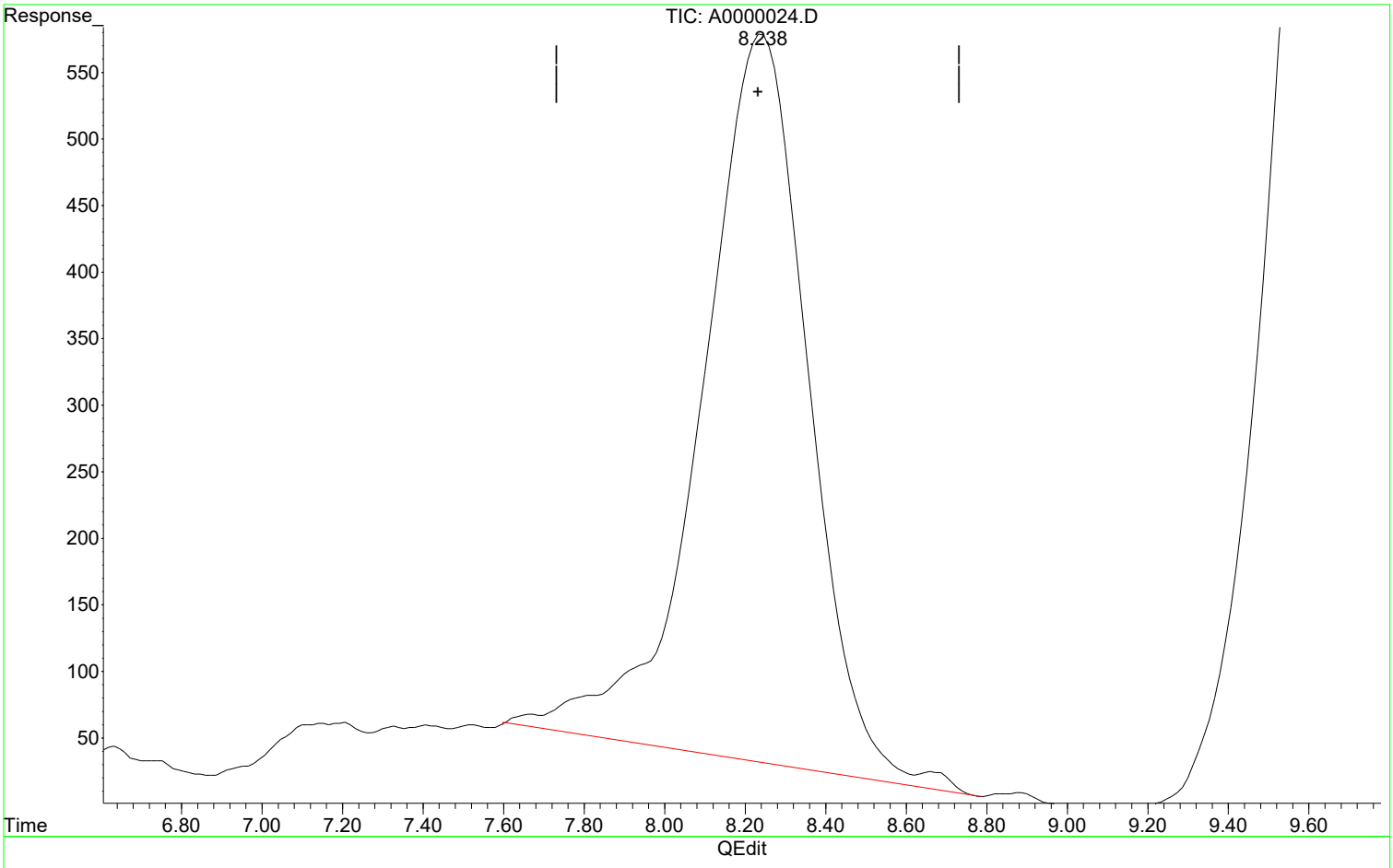
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000024.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 14:18:55
Operator : AFelser
Sample : 0.2/2 STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:46:59 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

8.243min 1.830 ppm

response 101136

Manual Integration:

Before

07/12/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000024.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 14:18:55
Operator : AFelser
Sample : 0.2/2 STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:46:59 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.235	151465	1.689	ppm	
2) T	Pyruvic acid	3.609	68886	0.131	ppm	
3) T	Lactic Acid	3.967	72927	1.505	ppm	
4) T	Acetic Acid	4.326	89561	1.671	ppm	m
5) T	Propionic Acid	8.238	96267	1.742	ppm	m
6) T	Butyric Acid	0.000	0	N.D.	ppm	

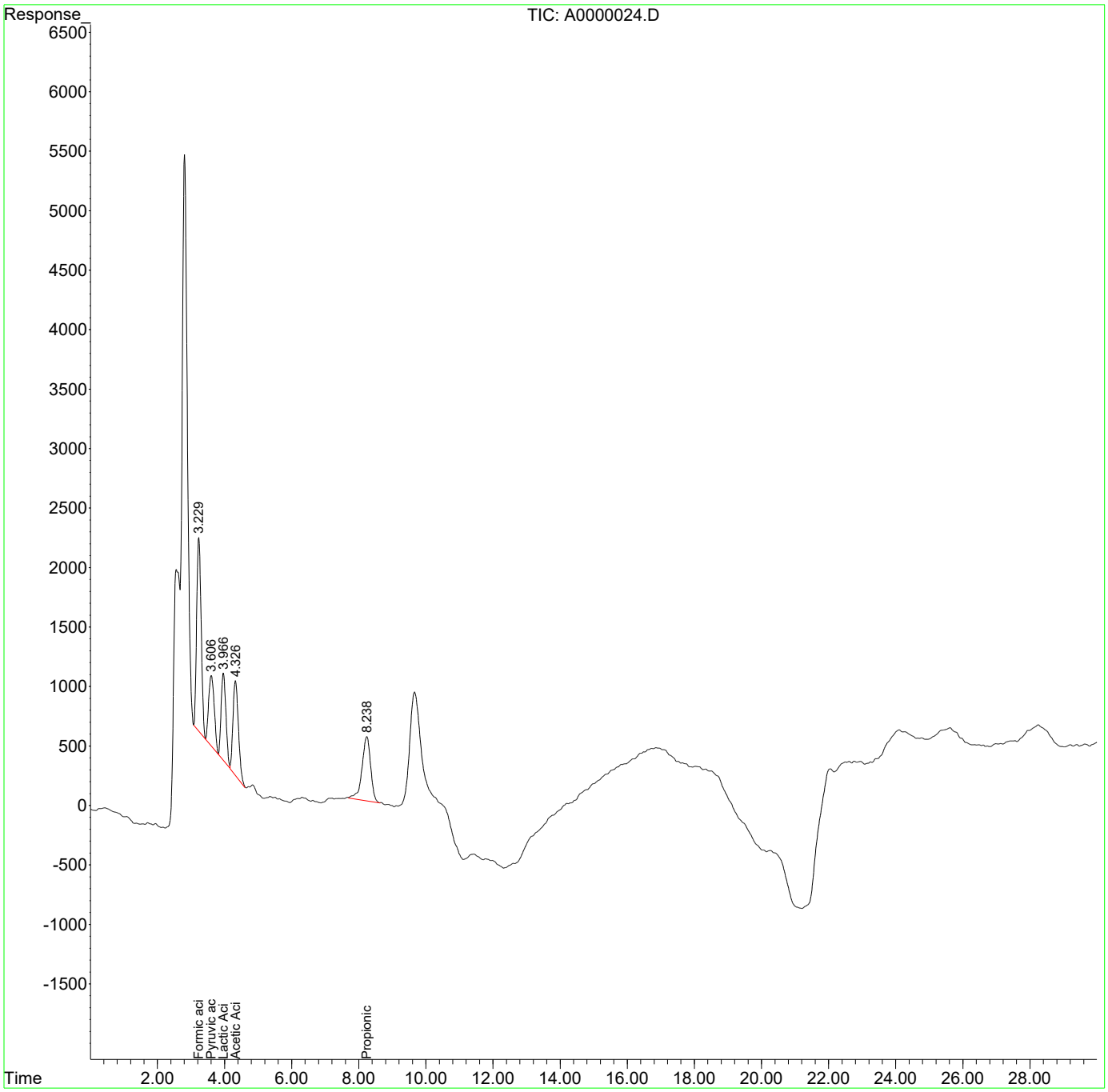
(f)=RT Delta > 1/2 Window (m)=manual int.

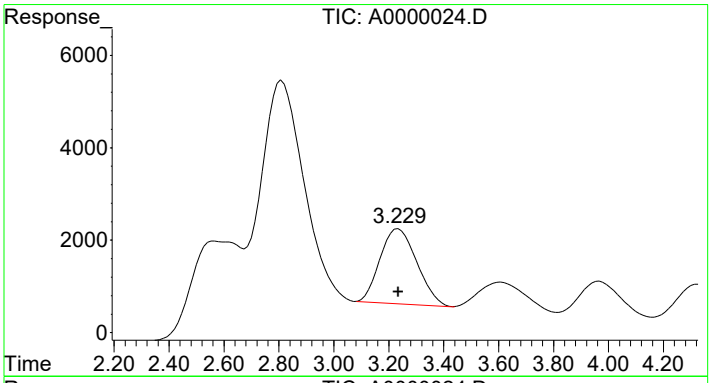
1st AF 07/15/24
2nd BA 07/16/24

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000024.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 14:18:55
Operator : AFelser
Sample : 0.2/2 STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:46:59 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

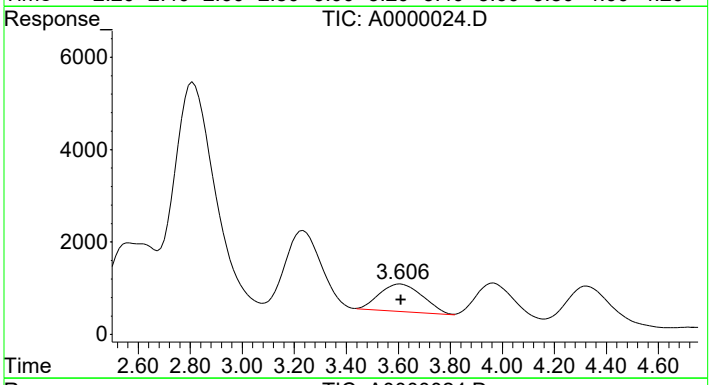
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





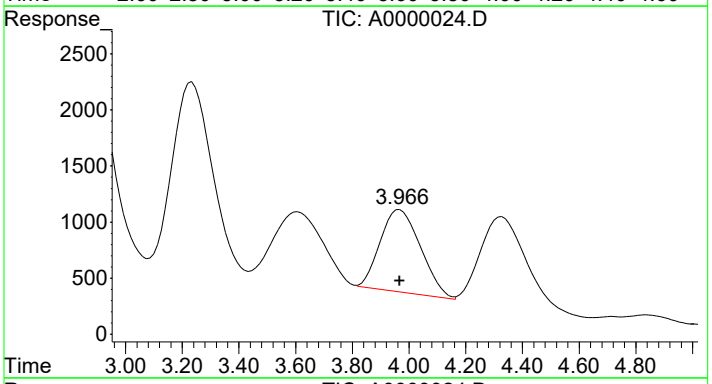
#1 Formic acid

R.T.: 3.235 min
Delta R.T.: 0.000 min
Response: 151465
Conc: 1.69 ppm



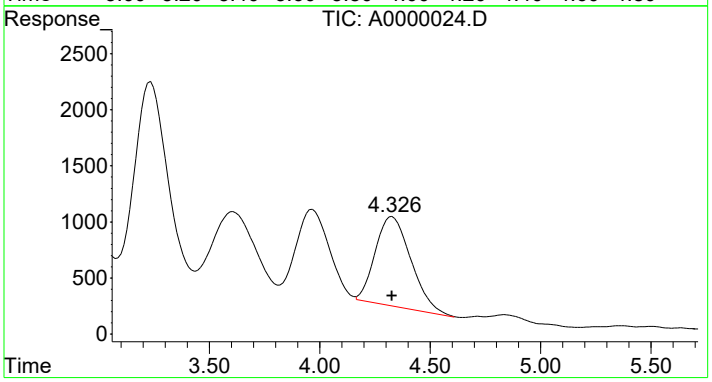
#2 Pyruvic acid

R.T.: 3.609 min
Delta R.T.: 0.000 min
Response: 68886
Conc: 0.13 ppm



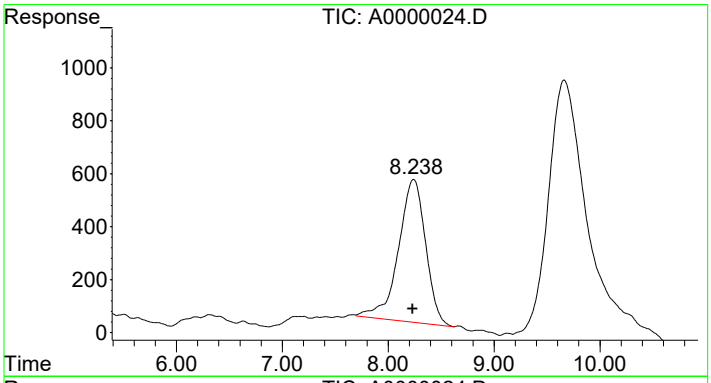
#3 Lactic Acid

R.T.: 3.967 min
Delta R.T.: 0.001 min
Response: 72927
Conc: 1.51 ppm



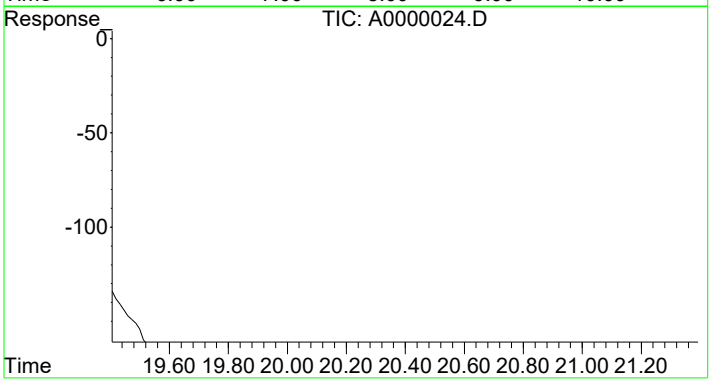
#4 Acetic Acid

R.T.: 4.326 min
Delta R.T.: 0.000 min
Response: 89561
Conc: 1.67 ppm m



#5 Propionic Acid

R.T.: 8.238 min
Delta R.T.: 0.006 min
Response: 96267
Conc: 1.74 ppm m



#6 Butyric Acid

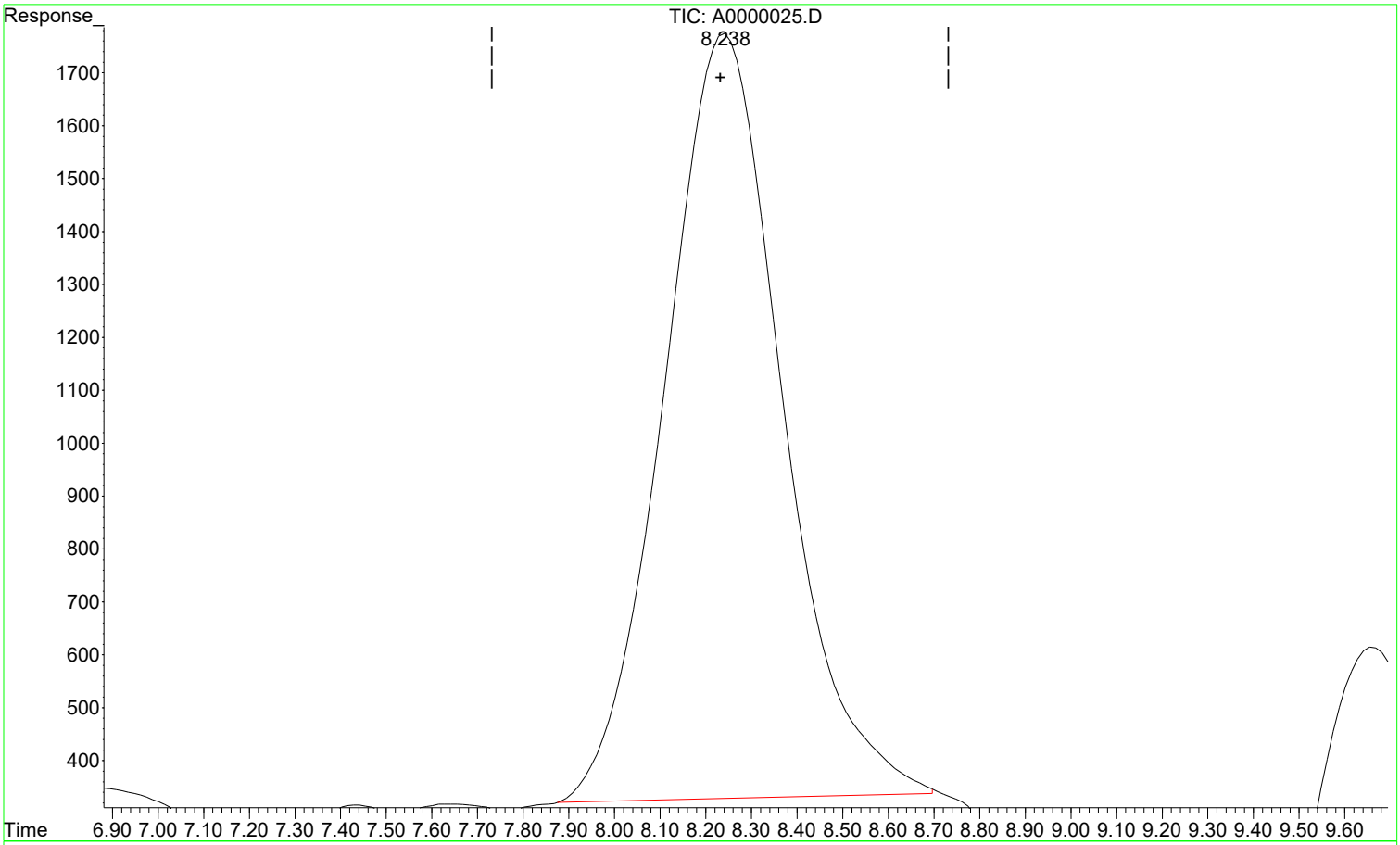
R.T.: 0.000 min
Exp R.T. : 20.402 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000025.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 14:50:41
Operator : AFelser
Sample : 0.5/5 STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:01 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

8.238min 4.677 ppm m

response 258535

Manual Integration:

After

Poor integration.

07/12/24

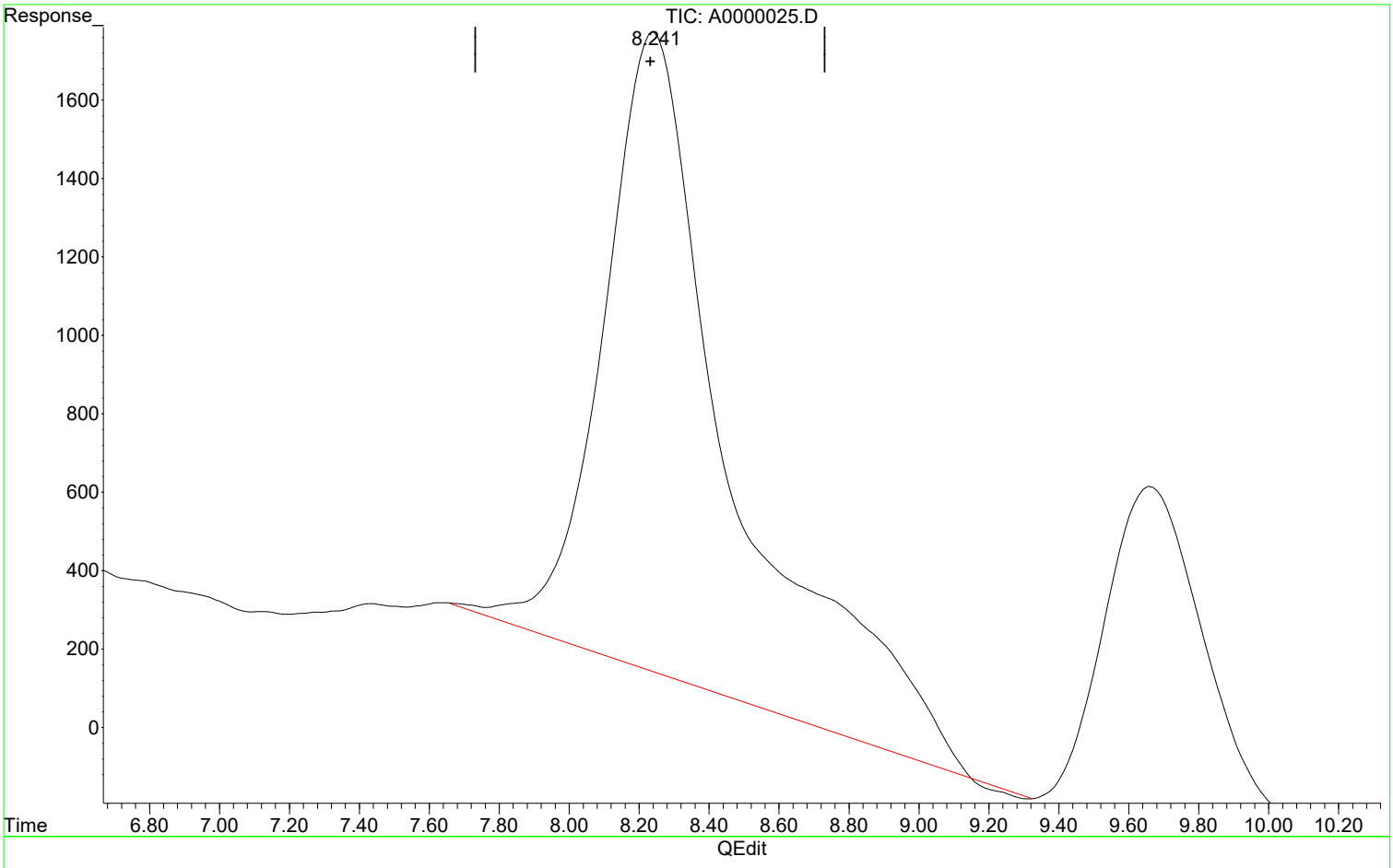
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000025.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 14:50:41
Operator : AFelser
Sample : 0.5/5 STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:01 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)

8.244min 7.613 ppm

response 420797

Manual Integration:

Before

07/12/24

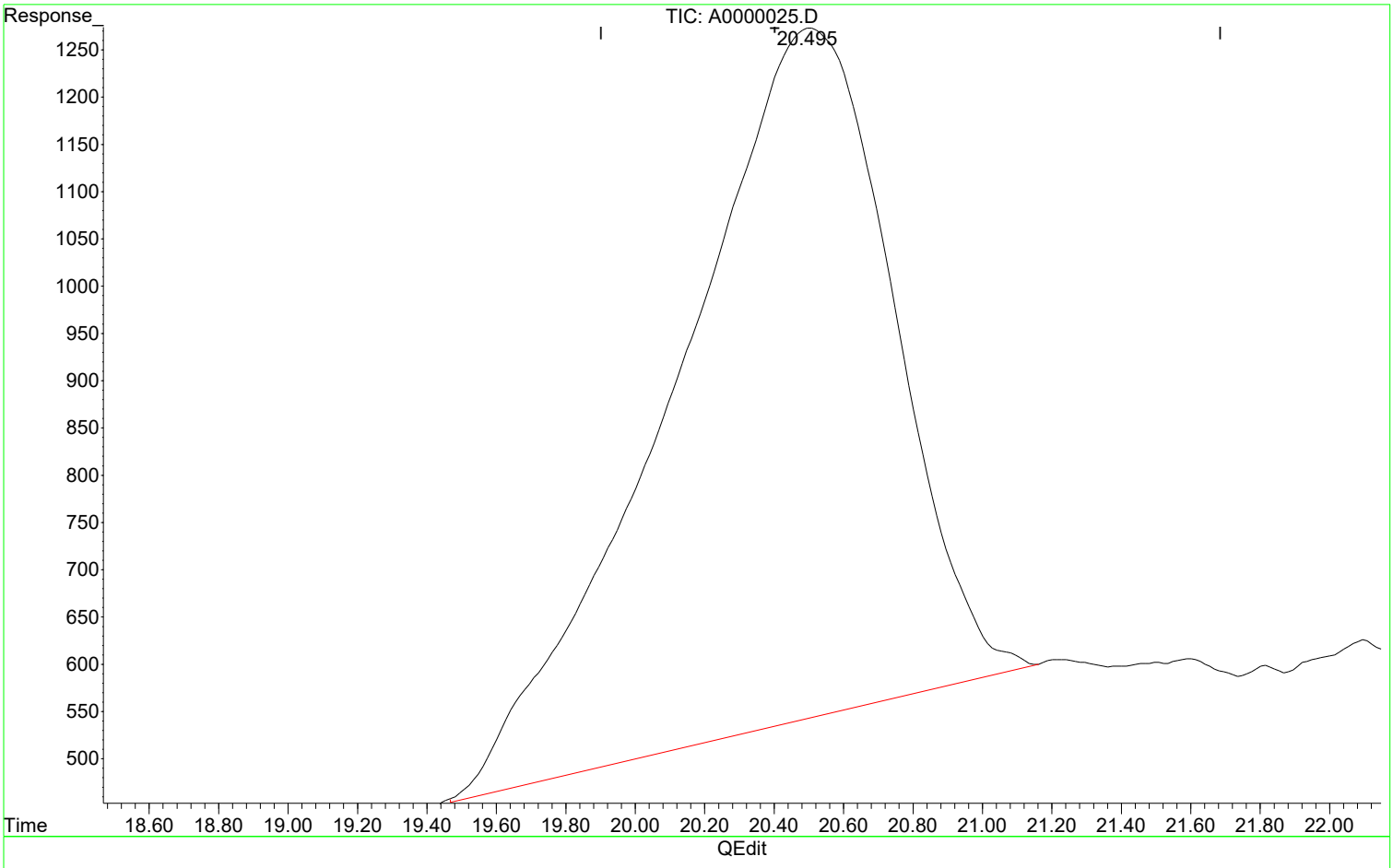
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000025.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 14:50:41
Operator : AFelser
Sample : 0.5/5 STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:01 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

20.495min 4.235 ppm m

response 320362

Manual Integration:

After

Poor integration.

07/12/24

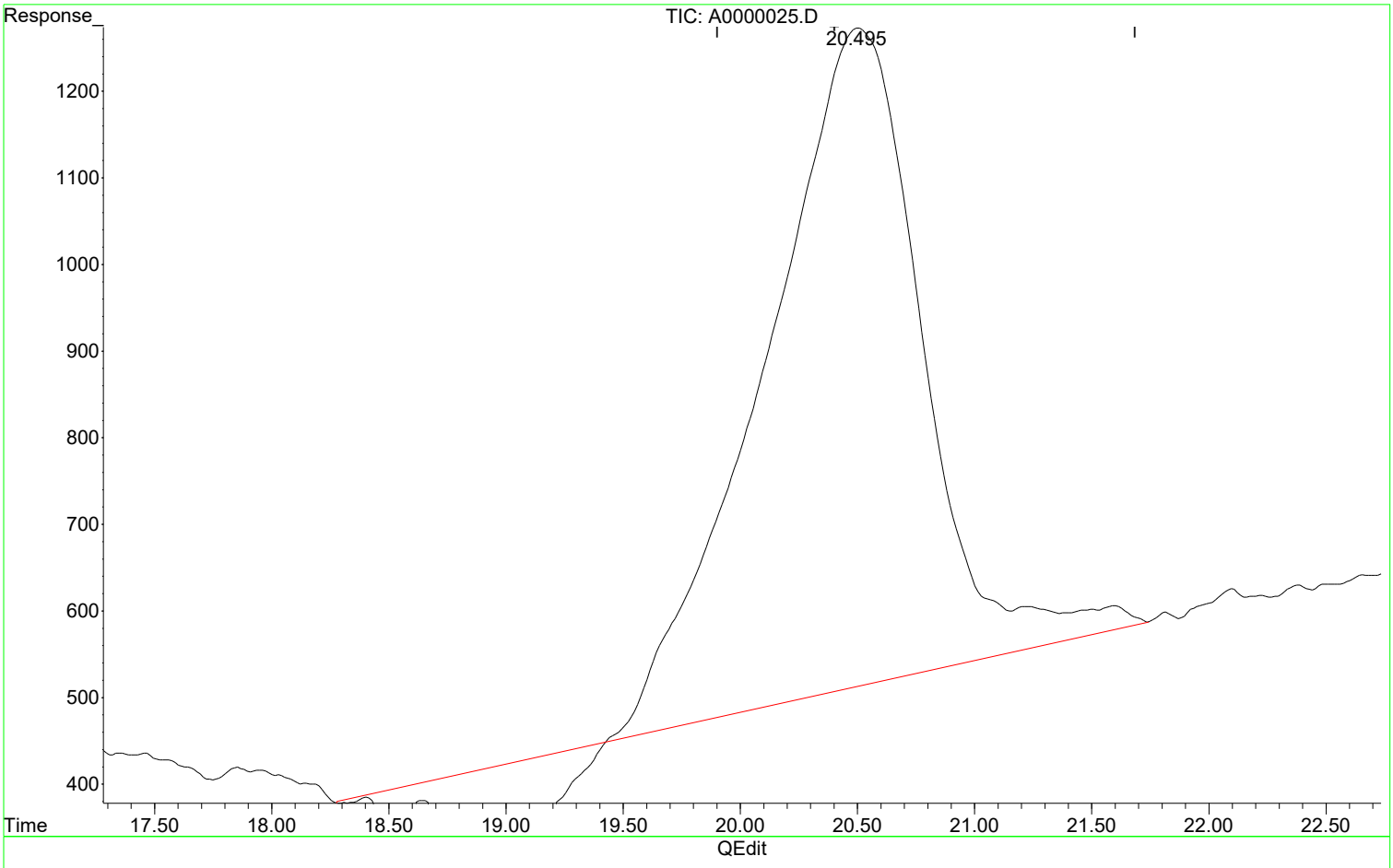
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000025.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 14:50:41
Operator : AFelser
Sample : 0.5/5 STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:01 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

20.509min 4.369 ppm

response 330488

Manual Integration:

Before

07/12/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000025.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 14:50:41
Operator : AFelser
Sample : 0.5/5 STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:01 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.235	408787	4.559	ppm	
2) T	Pyruvic acid	3.610	202849	0.386	ppm	
3) T	Lactic Acid	3.968	203291	4.196	ppm	
4) T	Acetic Acid	4.328	239755	4.473	ppm	
5) T	Propionic Acid	8.238	258535	4.677	ppm	m
6) T	Butyric Acid	20.495	320362	4.235	ppm	m

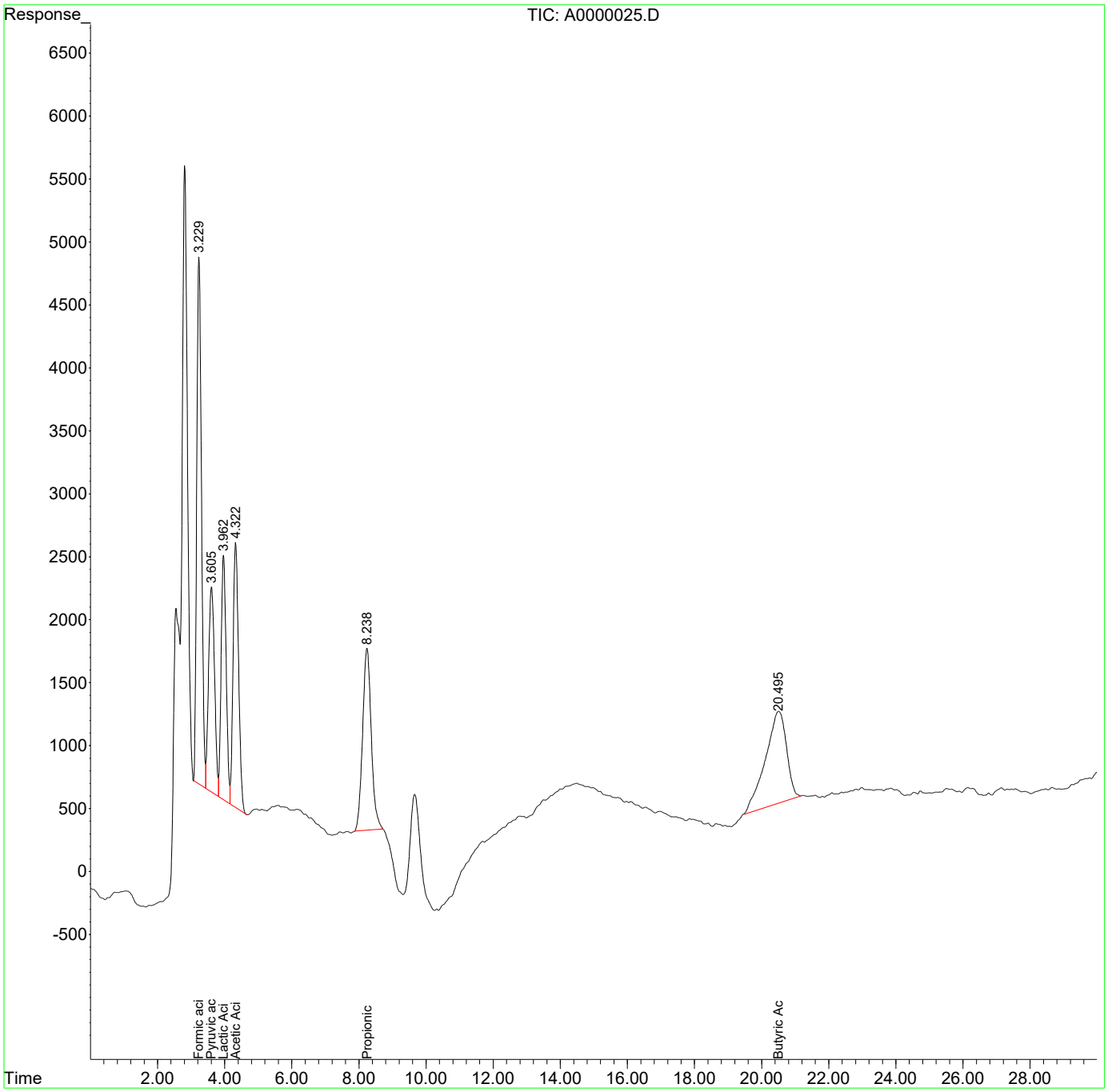
(f)=RT Delta > 1/2 Window (m)=manual int.

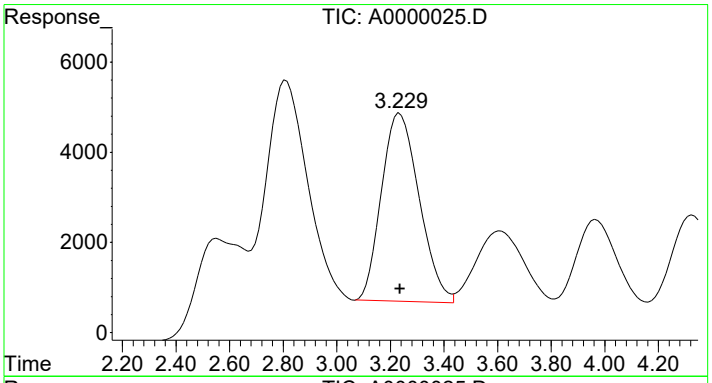
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000025.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 14:50:41
Operator : AFelser
Sample : 0.5/5 STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:01 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

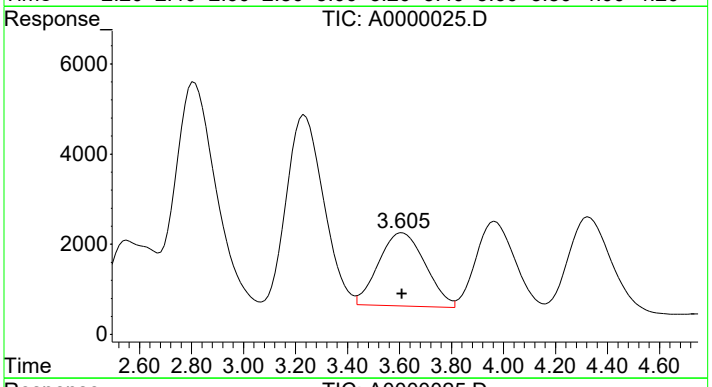
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





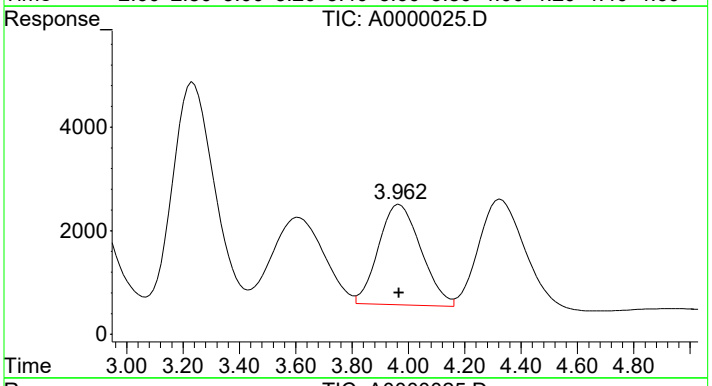
#1 Formic acid

R.T.: 3.235 min
Delta R.T.: 0.000 min
Response: 408787
Conc: 4.56 ppm



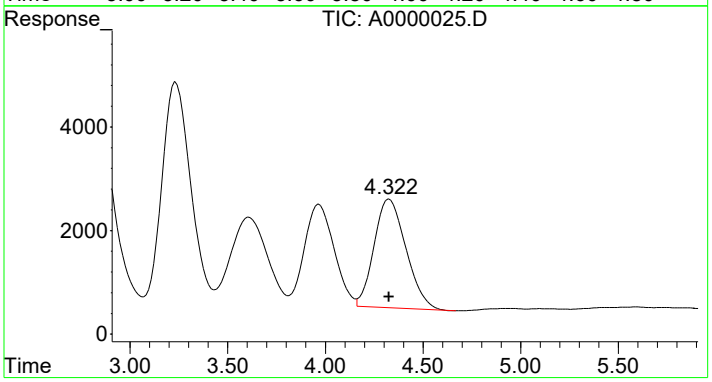
#2 Pyruvic acid

R.T.: 3.610 min
Delta R.T.: 0.001 min
Response: 202849
Conc: 0.39 ppm



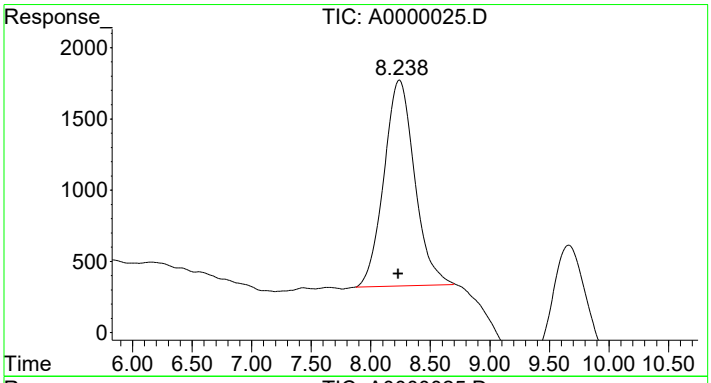
#3 Lactic Acid

R.T.: 3.968 min
Delta R.T.: 0.001 min
Response: 203291
Conc: 4.20 ppm



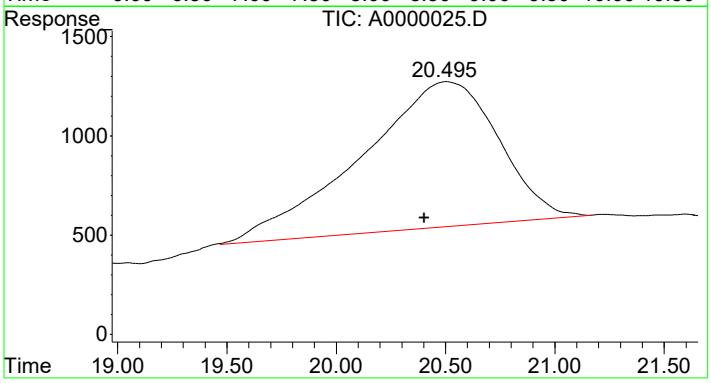
#4 Acetic Acid

R.T.: 4.328 min
Delta R.T.: 0.002 min
Response: 239755
Conc: 4.47 ppm



#5 Propionic Acid

R.T.: 8.238 min
Delta R.T.: 0.006 min
Response: 258535
Conc: 4.68 ppm m



#6 Butyric Acid

R.T.: 20.495 min
Delta R.T.: 0.092 min
Response: 320362
Conc: 4.24 ppm m

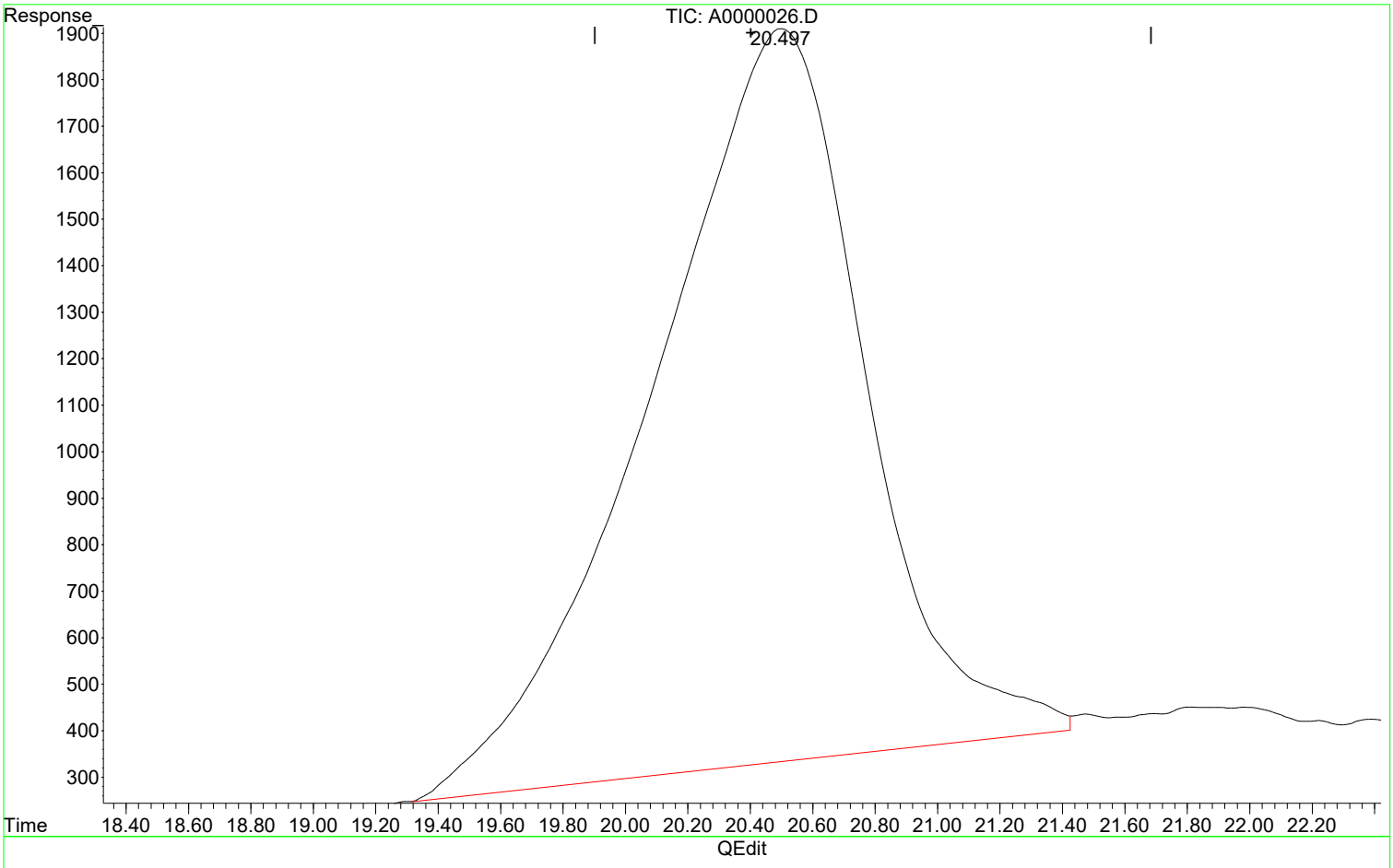
1st AF 07/15/24
2nd BA 07/16/24

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000026.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 15:22:27
Operator : AFelser
Sample : 1/10 STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:03 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

20.497min 9.876 ppm m

response 747022

Manual Integration:

After

Poor integration.

07/12/24

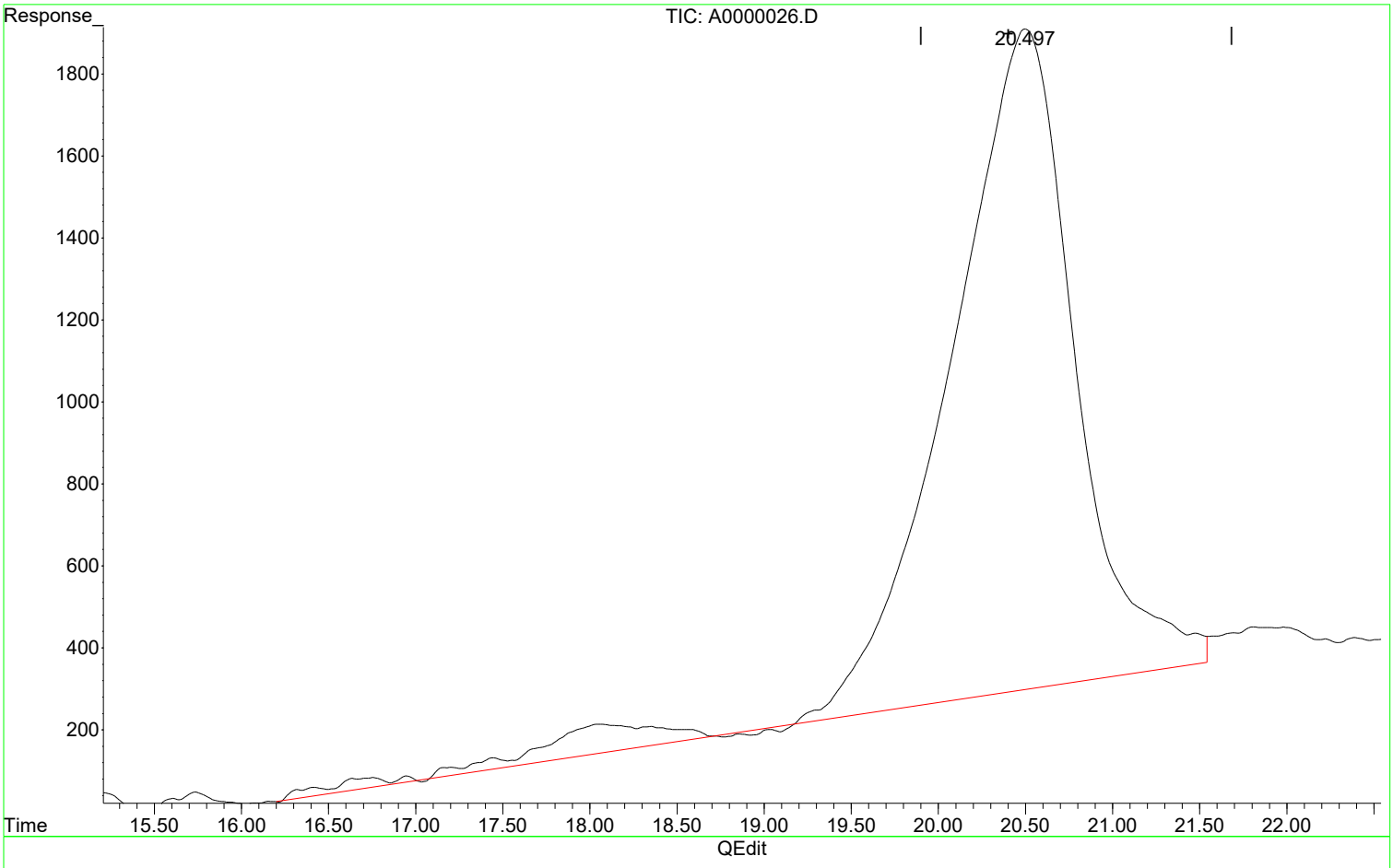
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000026.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 15:22:27
Operator : AFelser
Sample : 1/10 STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:03 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

20.505min 11.038 ppm

response 834924

Manual Integration:

Before

07/12/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000026.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 15:22:27
Operator : AFelser
Sample : 1/10 STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:03 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.236	861642	9.610	ppm	
2) T	Pyruvic acid	3.610	490269	0.932	ppm	
3) T	Lactic Acid	3.967	462770	9.553	ppm	
4) T	Acetic Acid	4.327	515837	9.623	ppm	
5) T	Propionic Acid	8.242	539490	9.761	ppm	
6) T	Butyric Acid	20.497	747022	9.876	ppm	m

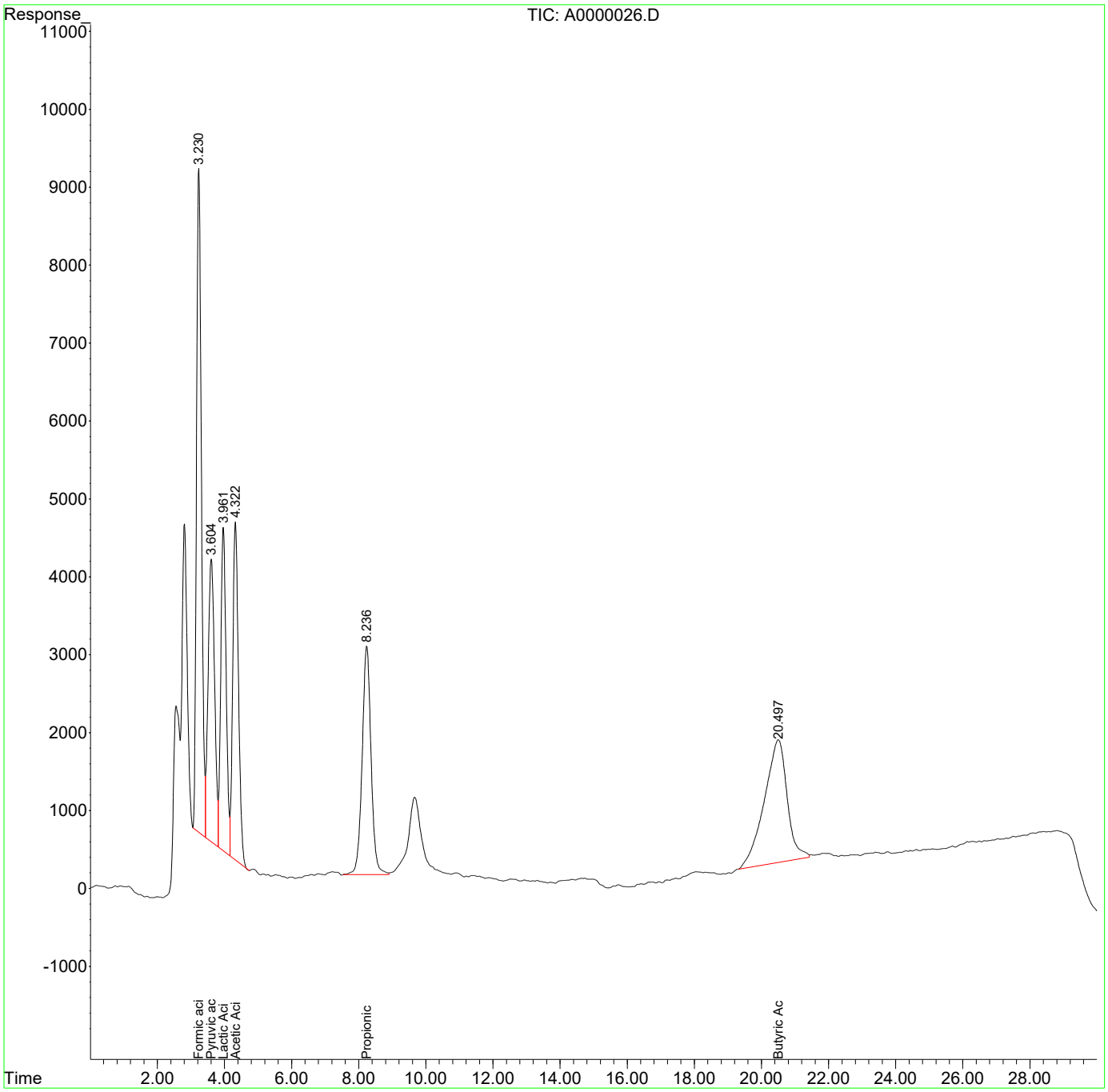
(f)=RT Delta > 1/2 Window (m)=manual int.

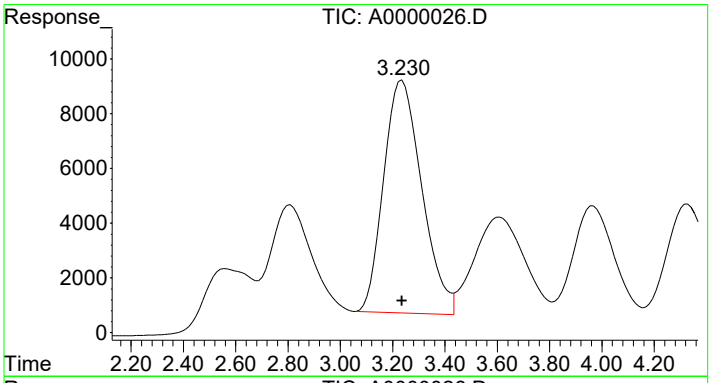
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000026.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 15:22:27
Operator : AFelser
Sample : 1/10 STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:03 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

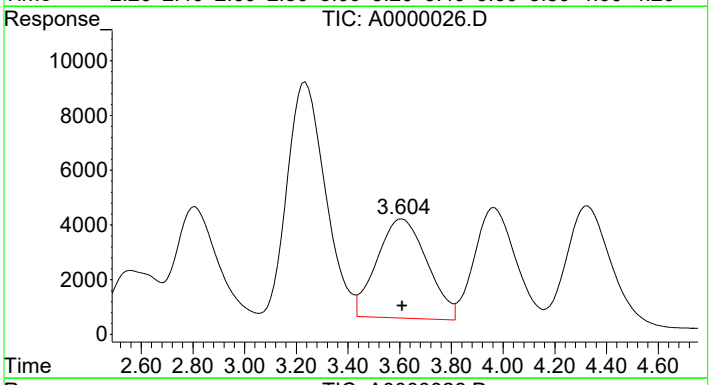
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





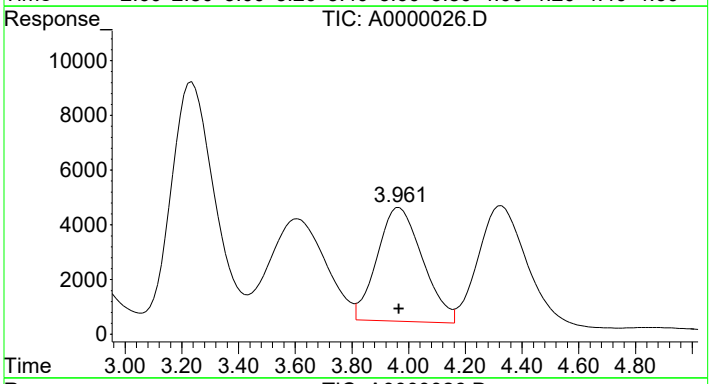
#1 Formic acid

R.T.: 3.236 min
Delta R.T.: 0.000 min
Response: 861642
Conc: 9.61 ppm



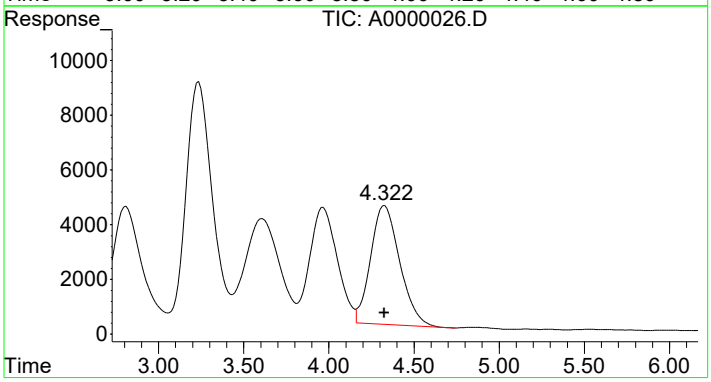
#2 Pyruvic acid

R.T.: 3.610 min
Delta R.T.: 0.000 min
Response: 490269
Conc: 0.93 ppm



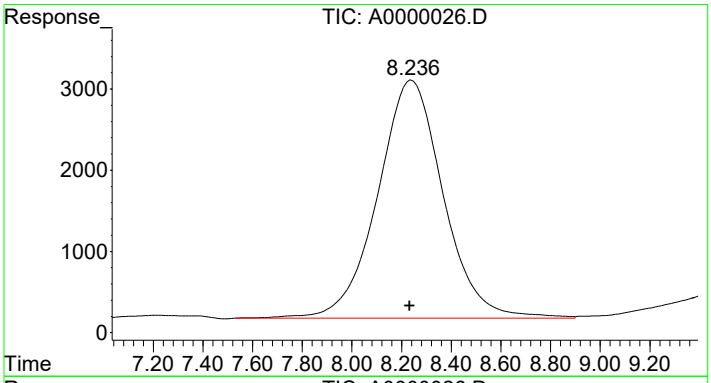
#3 Lactic Acid

R.T.: 3.967 min
Delta R.T.: 0.000 min
Response: 462770
Conc: 9.55 ppm



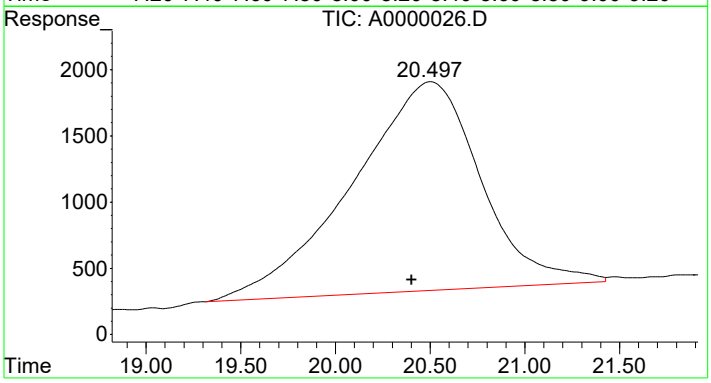
#4 Acetic Acid

R.T.: 4.327 min
Delta R.T.: 0.002 min
Response: 515837
Conc: 9.62 ppm



#5 Propionic Acid

R.T.: 8.242 min
Delta R.T.: 0.010 min
Response: 539490
Conc: 9.76 ppm



#6 Butyric Acid

R.T.: 20.497 min
Delta R.T.: 0.095 min
Response: 747022
Conc: 9.88 ppm m

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000027.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 15:54:12
Operator : AFelser
Sample : 2/20 STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:05 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc Units
Target Compounds				
1) t	Formic acid	3.236	1842957	20.554 ppm
2) T	Pyruvic acid	3.610	1083068	2.059 ppm
3) T	Lactic Acid	3.967	1007682	20.801 ppm
4) T	Acetic Acid	4.327	1107944	20.669 ppm
5) T	Propionic Acid	8.241	1093181	19.778 ppm
6) T	Butyric Acid	20.457	1468654	19.416 ppm

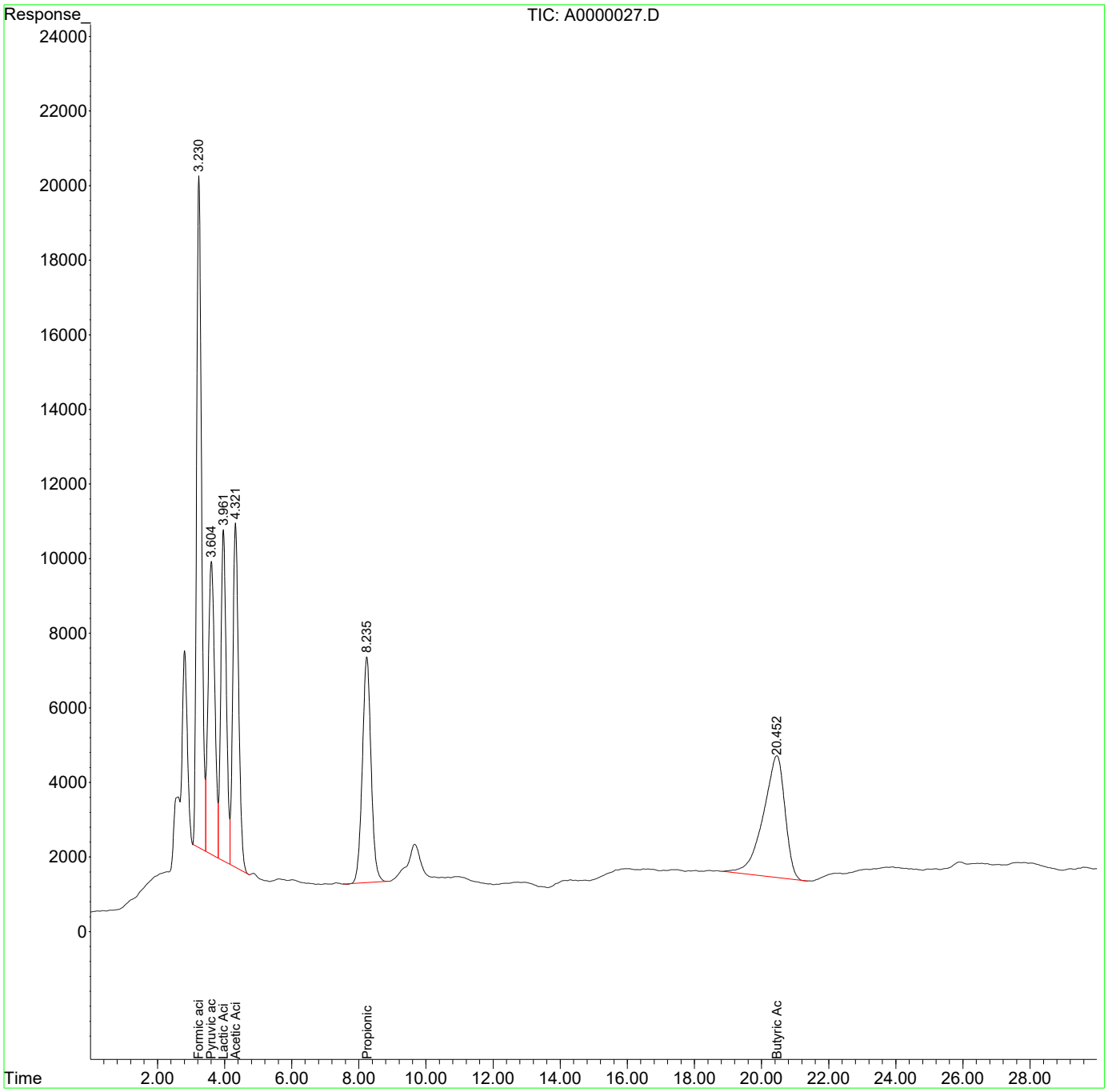
(f)=RT Delta > 1/2 Window (m)=manual int.

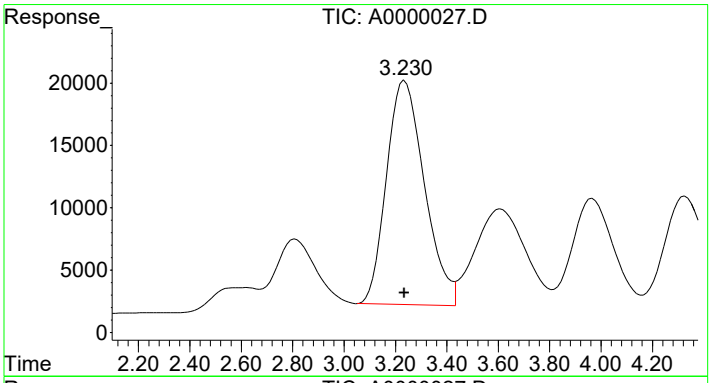
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000027.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 15:54:12
Operator : AFelser
Sample : 2/20 STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:05 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

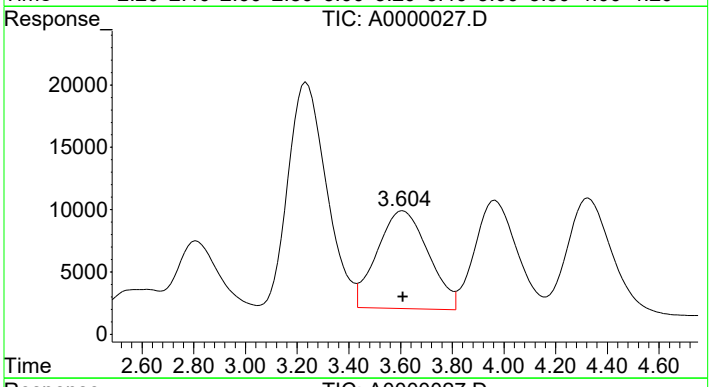
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





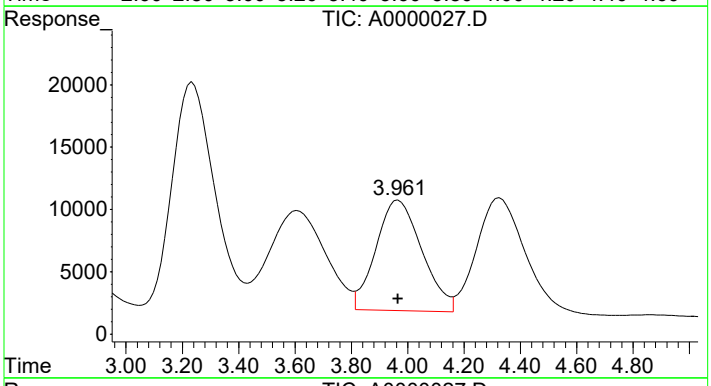
#1 Formic acid

R.T.: 3.236 min
Delta R.T.: 0.000 min
Response: 1842957
Conc: 20.55 ppm



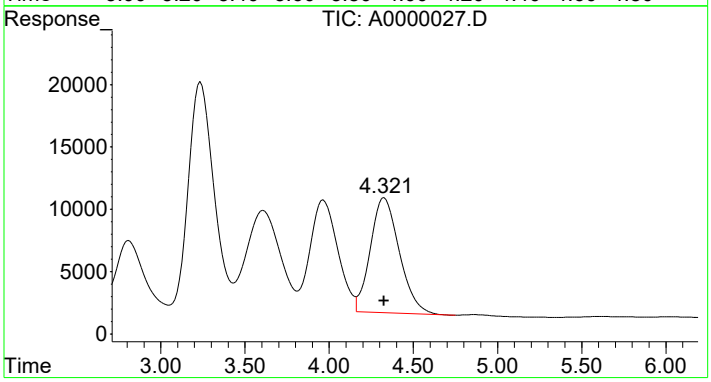
#2 Pyruvic acid

R.T.: 3.610 min
Delta R.T.: 0.000 min
Response: 1083068
Conc: 2.06 ppm



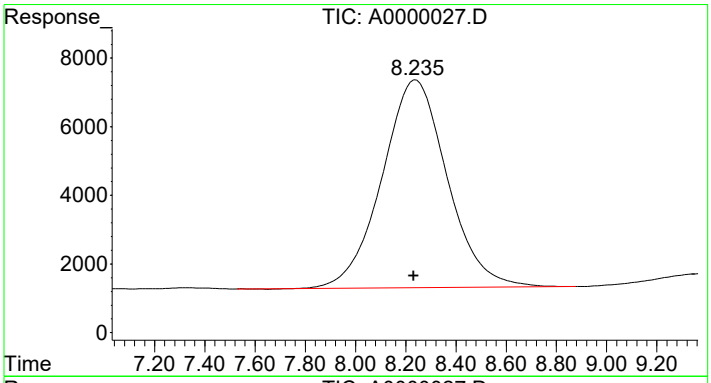
#3 Lactic Acid

R.T.: 3.967 min
Delta R.T.: 0.000 min
Response: 1007682
Conc: 20.80 ppm



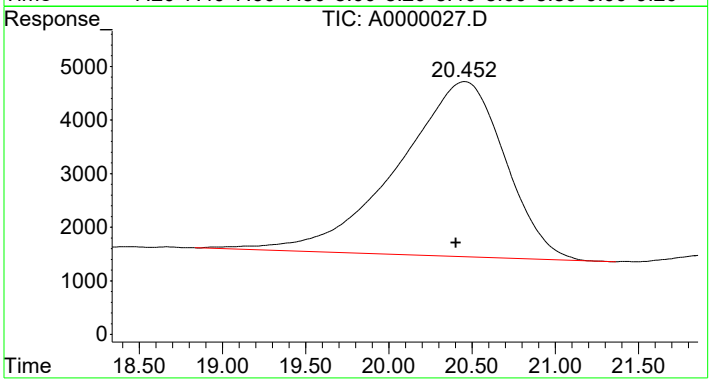
#4 Acetic Acid

R.T.: 4.327 min
Delta R.T.: 0.001 min
Response: 1107944
Conc: 20.67 ppm



#5 Propionic Acid

R.T.: 8.241 min
Delta R.T.: 0.009 min
Response: 1093181
Conc: 19.78 ppm



#6 Butyric Acid

R.T.: 20.457 min
Delta R.T.: 0.055 min
Response: 1468654
Conc: 19.42 ppm

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000028.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 16:25:59
Operator : AFelser
Sample : 5/50 STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:46:28 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:45:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc Units
Target Compounds				
1) t	Formic acid	3.235	4483170	48.227 ppm
2) T	Pyruvic acid	3.609	2629936	4.781 ppm
3) T	Lactic Acid	3.966	2422164	45.082 ppm
4) T	Acetic Acid	4.326	2680177	46.949 ppm
5) T	Propionic Acid	8.232	2763622	52.179 ppm
6) T	Butyric Acid	20.402	3782057	50.798 ppm

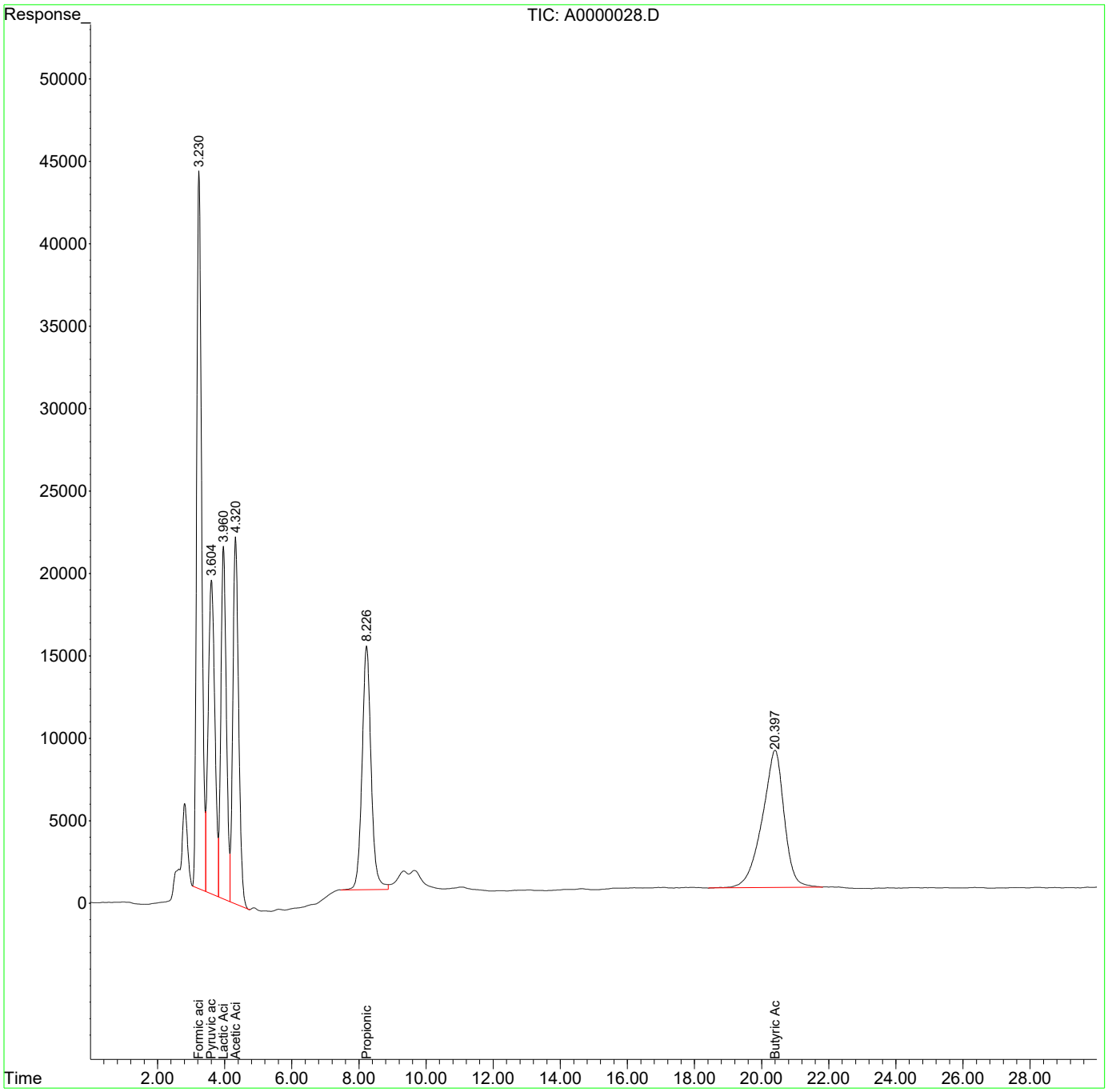
(f)=RT Delta > 1/2 Window (m)=manual int.

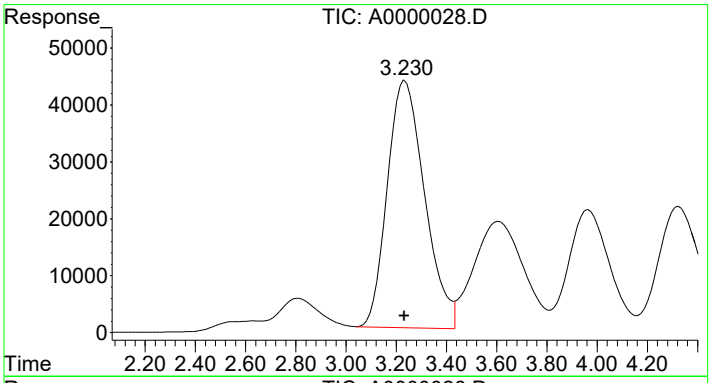
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000028.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 16:25:59
Operator : AFelser
Sample : 5/50 STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:46:28 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:45:23 2024
Response via : Initial Calibration
Integrator: ChemStation

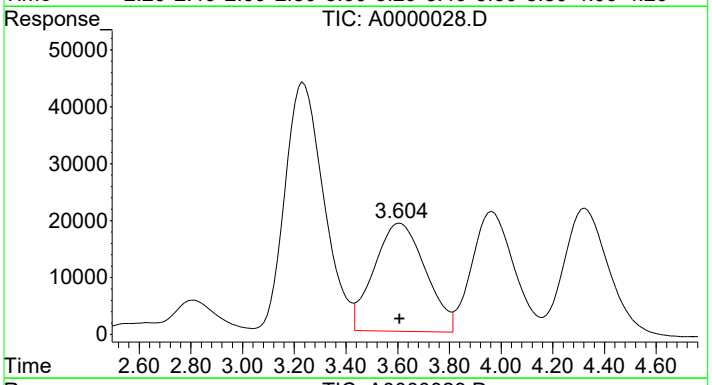
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





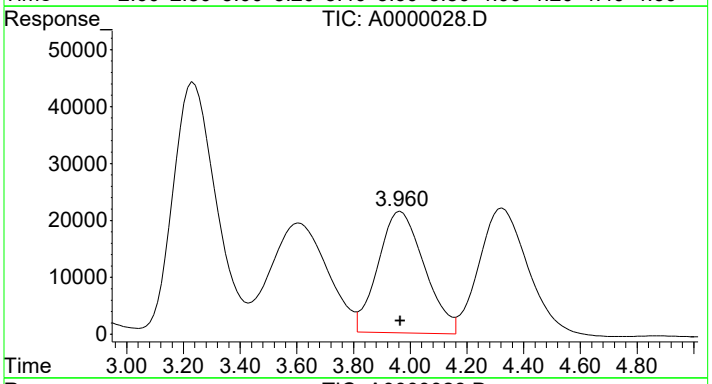
#1 Formic acid

R.T.: 3.235 min
Delta R.T.: 0.002 min
Response: 4483170
Conc: 48.23 ppm



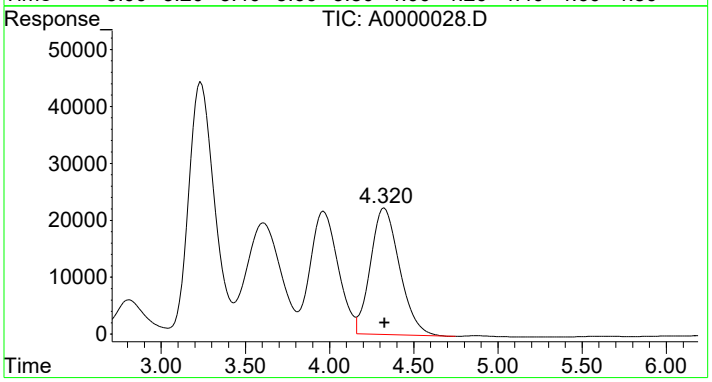
#2 Pyruvic acid

R.T.: 3.609 min
Delta R.T.: 0.002 min
Response: 2629936
Conc: 4.78 ppm



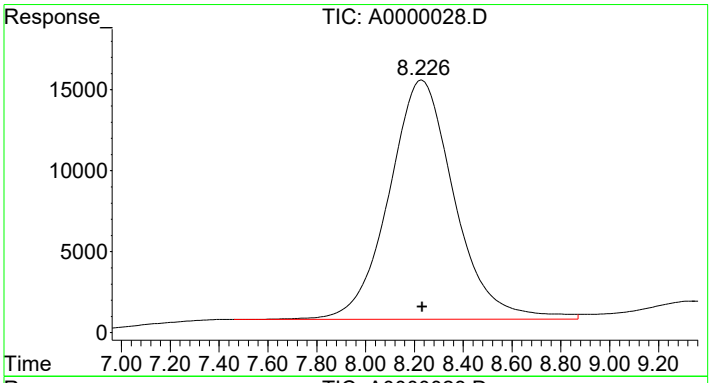
#3 Lactic Acid

R.T.: 3.966 min
Delta R.T.: 0.002 min
Response: 2422164
Conc: 45.08 ppm



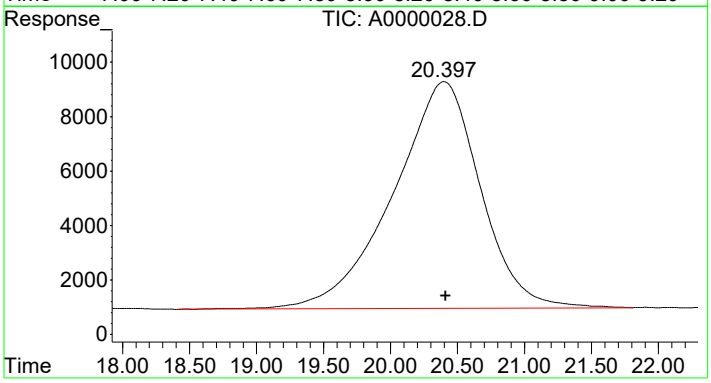
#4 Acetic Acid

R.T.: 4.326 min
Delta R.T.: 0.000 min
Response: 2680177
Conc: 46.95 ppm



#5 Propionic Acid

R.T.: 8.232 min
Delta R.T.: 0.000 min
Response: 2763622
Conc: 52.18 ppm



#6 Butyric Acid

R.T.: 20.402 min
Delta R.T.: -0.010 min
Response: 3782057
Conc: 50.80 ppm

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000029.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 16:57:44
Operator : AFelser
Sample : 10/100 STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:07 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc Units
Target Compounds				
1) t	Formic acid	3.238	9758278	108.832 ppm
2) T	Pyruvic acid	3.612	5920842	11.257 ppm
3) T	Lactic Acid	3.969	5411630	111.711 ppm
4) T	Acetic Acid	4.328	5898168	110.033 ppm
5) T	Propionic Acid	8.221	5670552	102.593 ppm
6) T	Butyric Acid	20.291	8100481	107.091 ppm

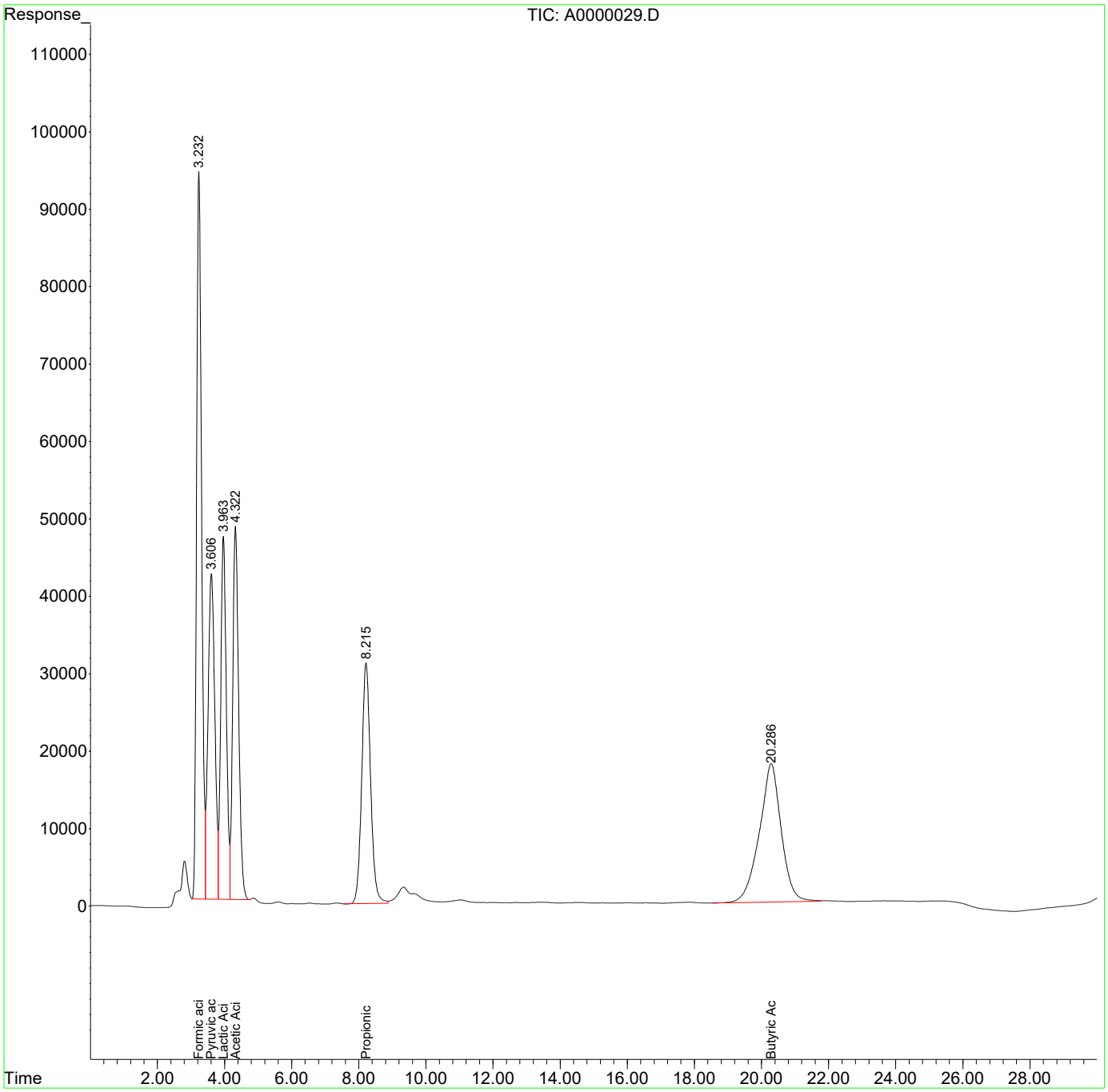
(f)=RT Delta > 1/2 Window (m)=manual int.

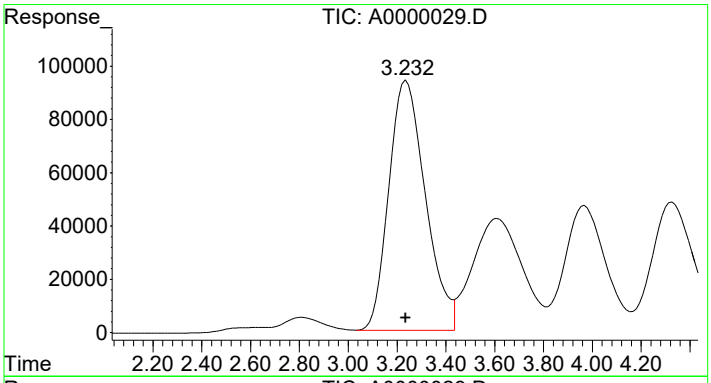
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000029.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 16:57:44
Operator : AFelser
Sample : 10/100 STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:07 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

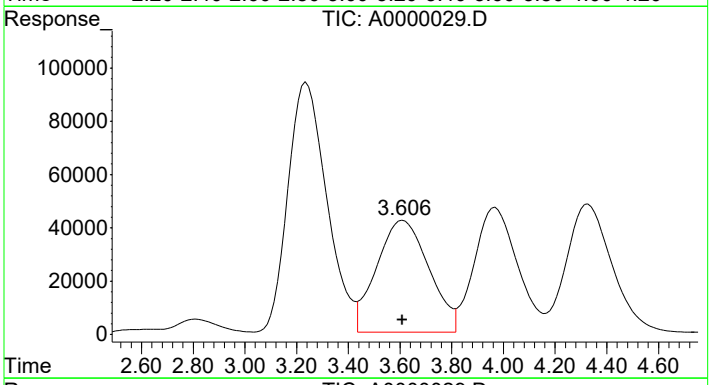
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





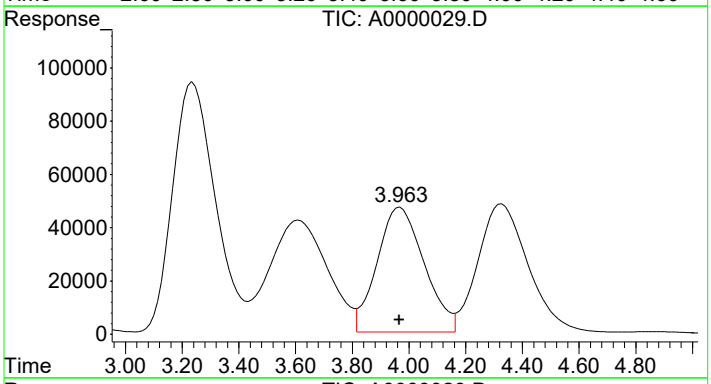
#1 Formic acid

R.T.: 3.238 min
Delta R.T.: 0.003 min
Response: 9758278
Conc: 108.83 ppm



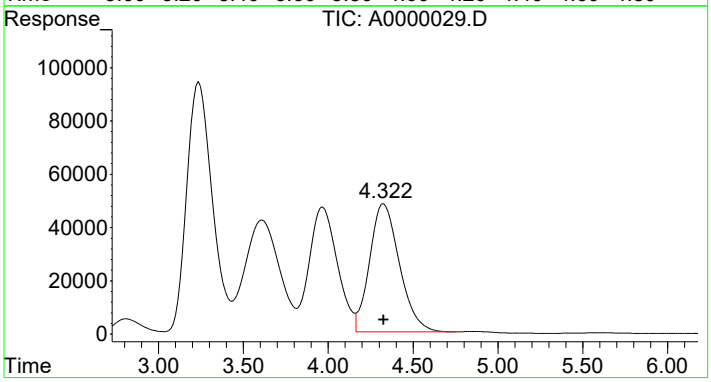
#2 Pyruvic acid

R.T.: 3.612 min
Delta R.T.: 0.003 min
Response: 5920842
Conc: 11.26 ppm



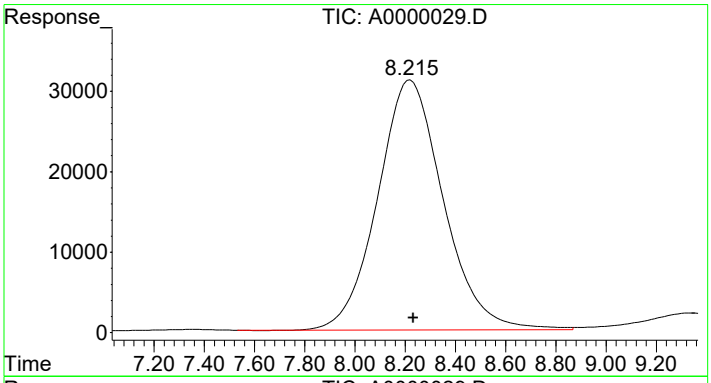
#3 Lactic Acid

R.T.: 3.969 min
Delta R.T.: 0.002 min
Response: 5411630
Conc: 111.71 ppm



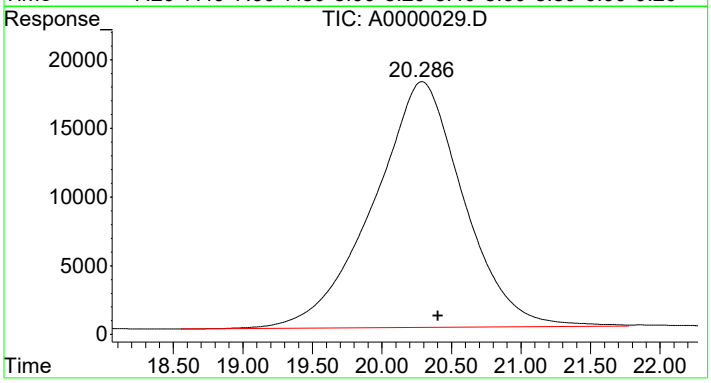
#4 Acetic Acid

R.T.: 4.328 min
Delta R.T.: 0.002 min
Response: 5898168
Conc: 110.03 ppm



#5 Propionic Acid

R.T.: 8.221 min
Delta R.T.: -0.011 min
Response: 5670552
Conc: 102.59 ppm



#6 Butyric Acid

R.T.: 20.291 min
Delta R.T.: -0.111 min
Response: 8100481
Conc: 107.09 ppm

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000030.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 17:29:32
Operator : AFelser
Sample : 20/200 STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:09 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc Units
Target Compounds				
1) t	Formic acid	3.237	18481392	206.120 ppm
2) T	Pyruvic acid	3.611	11296149	21.476 ppm
3) T	Lactic Acid	3.966	10361521	213.890 ppm
4) T	Acetic Acid	4.324	11418644	213.020 ppm
5) T	Propionic Acid	8.193	10758222	194.640 ppm
6) T	Butyric Acid	20.111	15420415	203.863 ppm

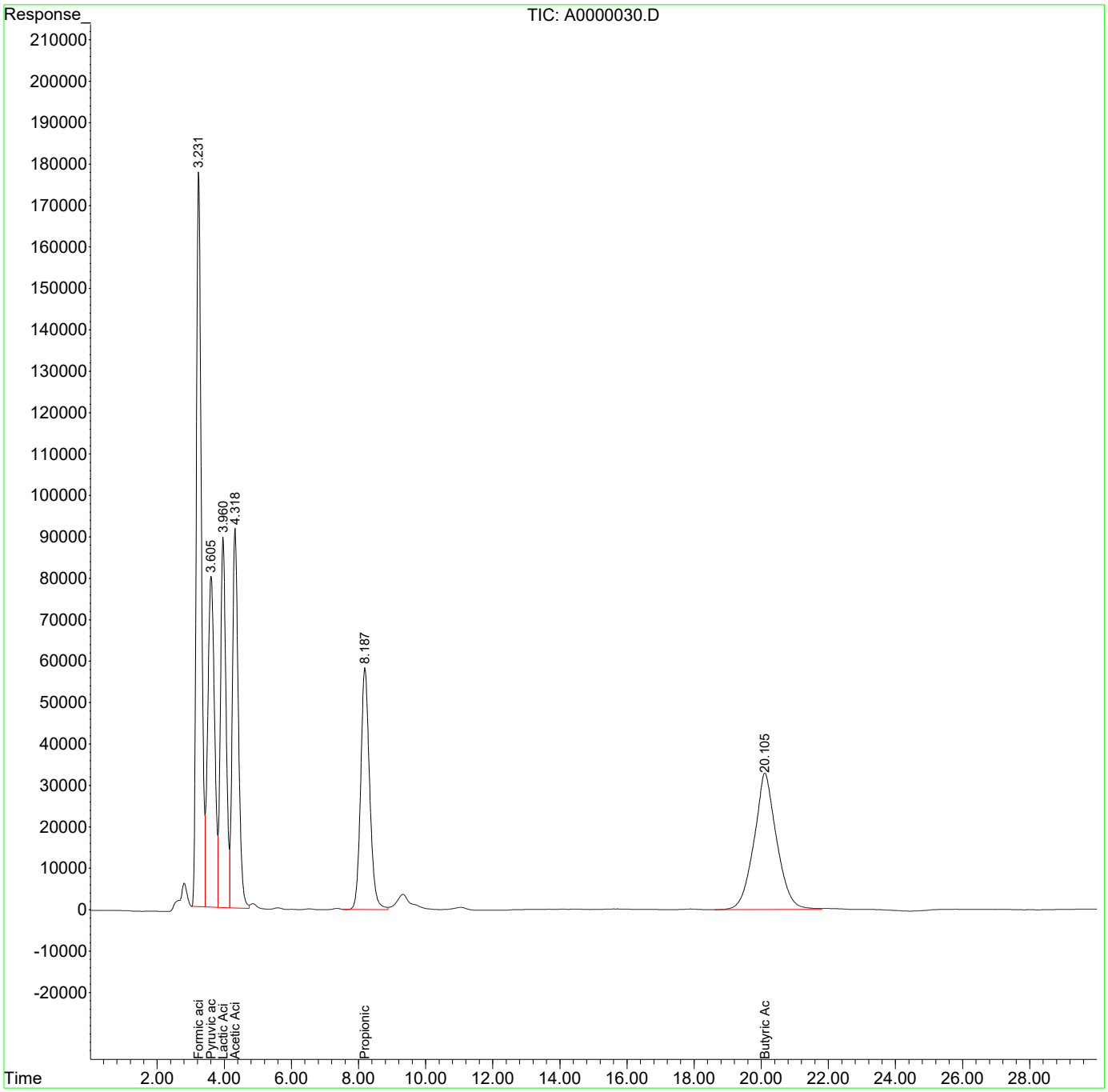
(f)=RT Delta > 1/2 Window (m)=manual int.

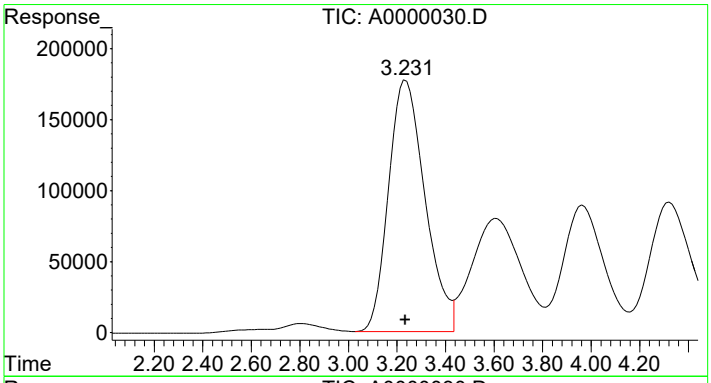
1st AF 07/15/24
2nd BA 07/16/24

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000030.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 17:29:32
Operator : AFelser
Sample : 20/200 STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:09 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

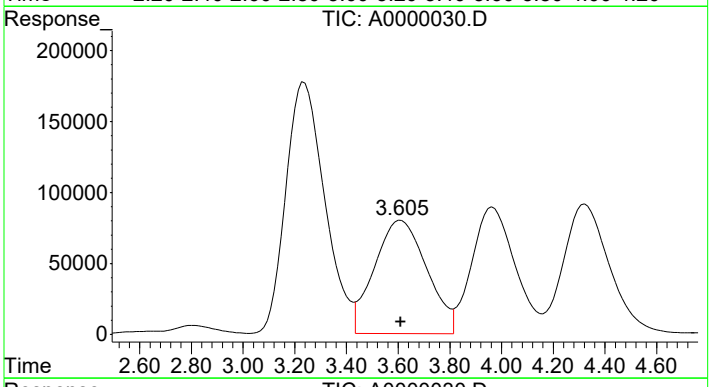
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





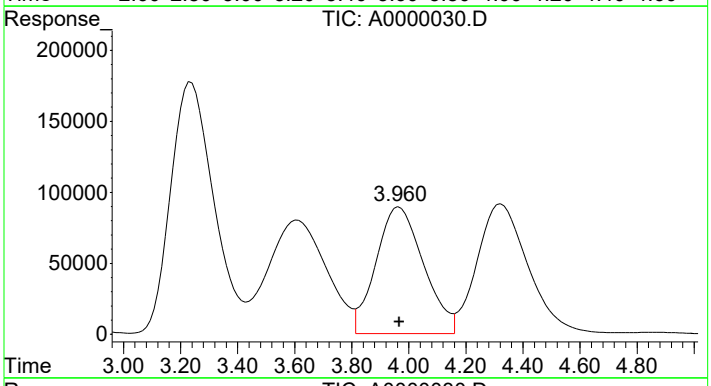
#1 Formic acid

R.T.: 3.237 min
Delta R.T.: 0.002 min
Response: 18481392
Conc: 206.12 ppm



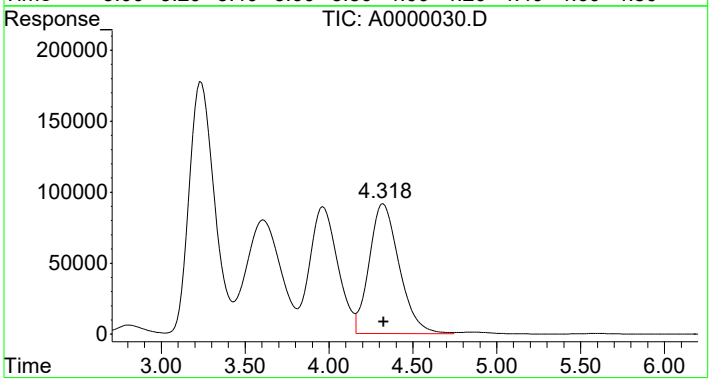
#2 Pyruvic acid

R.T.: 3.611 min
Delta R.T.: 0.001 min
Response: 11296149
Conc: 21.48 ppm



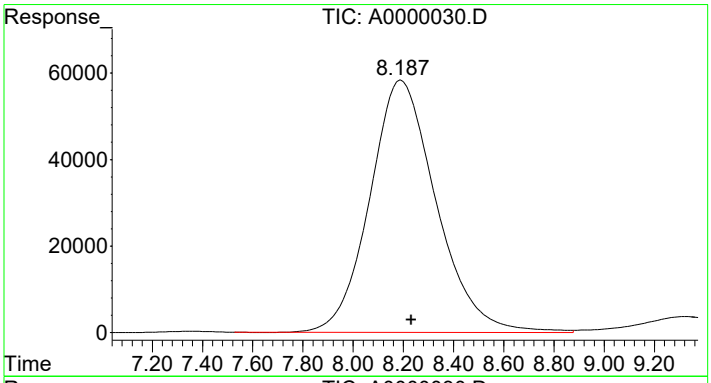
#3 Lactic Acid

R.T.: 3.966 min
Delta R.T.: 0.000 min
Response: 10361521
Conc: 213.89 ppm



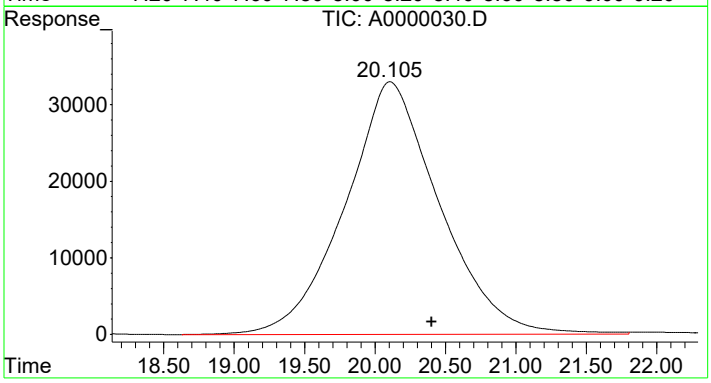
#4 Acetic Acid

R.T.: 4.324 min
Delta R.T.: -0.002 min
Response: 11418644
Conc: 213.02 ppm



#5 Propionic Acid

R.T.: 8.193 min
Delta R.T.: -0.039 min
Response: 10758222
Conc: 194.64 ppm



#6 Butyric Acid

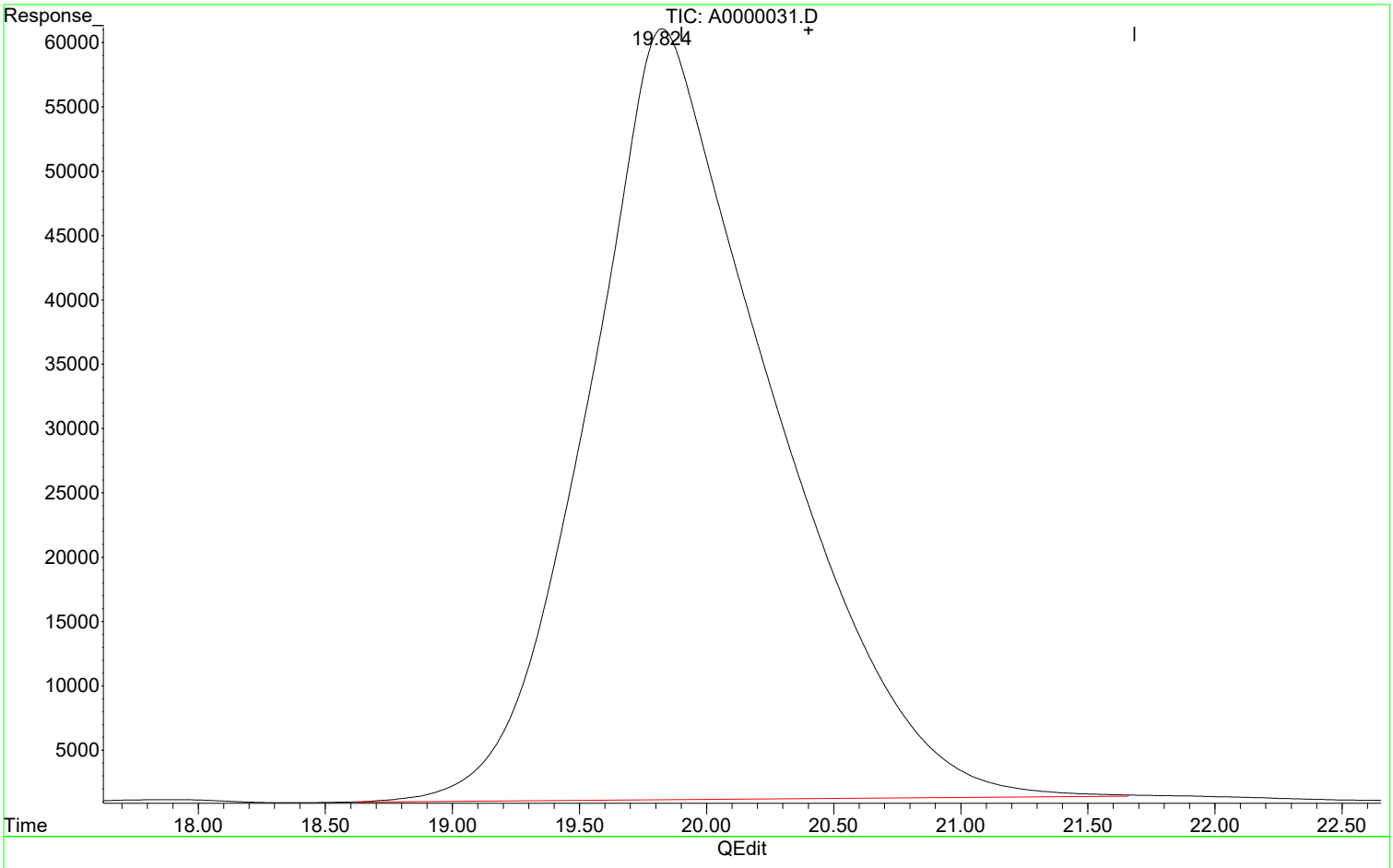
R.T.: 20.111 min
Delta R.T.: -0.291 min
Response: 15420415
Conc: 203.86 ppm

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000031.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 18:01:19
Operator : AFelser
Sample : 40/400 STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:11 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

19.824min 399.847 ppm m

response 30244852

Manual Integration:

After

Peak not found.

07/12/24

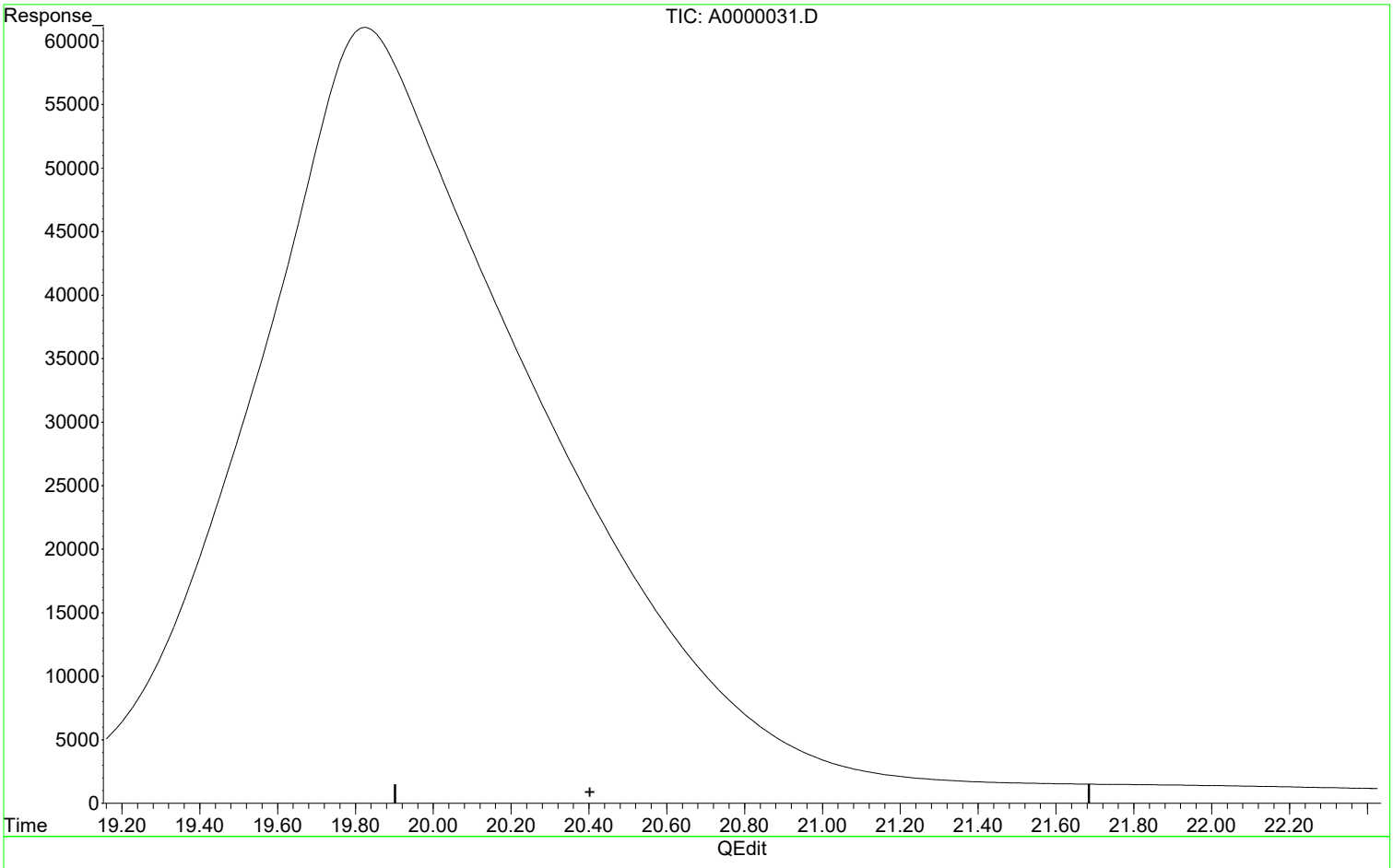
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000031.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 18:01:19
Operator : AFelser
Sample : 40/400 STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:11 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)

20.402min 0.000 ppm

response 0

Manual Integration:

Before

07/12/24

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000031.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 18:01:19
Operator : AFelser
Sample : 40/400 STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:11 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) t	Formic acid	3.236	36753099	409.901	ppm	
2) T	Pyruvic acid	3.609	22480781	42.740	ppm	
3) T	Lactic Acid	3.963	20563817	424.493	ppm	
4) T	Acetic Acid	4.318	22741006	424.245	ppm	
5) T	Propionic Acid	8.142	21417256	387.485	ppm	
6) T	Butyric Acid	19.824f	30244852	399.847	ppm	m

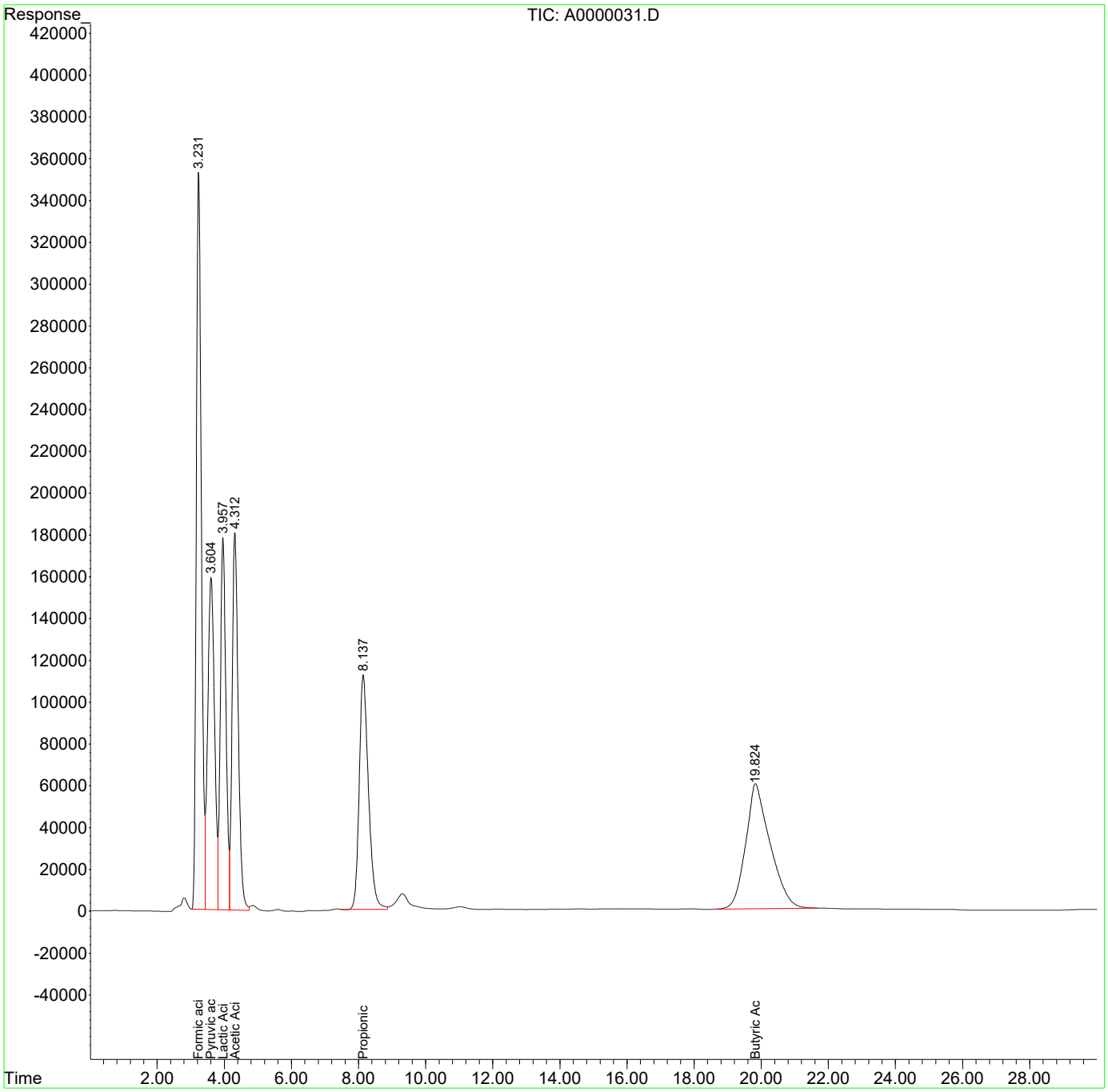
(f)=RT Delta > 1/2 Window (m)=manual int.

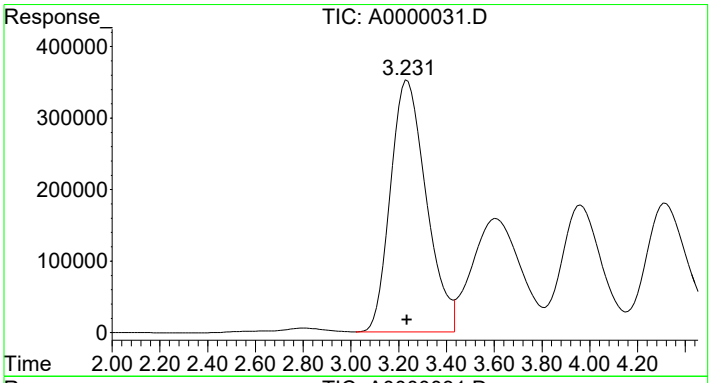
1st AF 07/15/24
2nd BA 07/16/24

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000031.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 18:01:19
Operator : AFelser
Sample : 40/400 STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 07:47:11 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 07:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

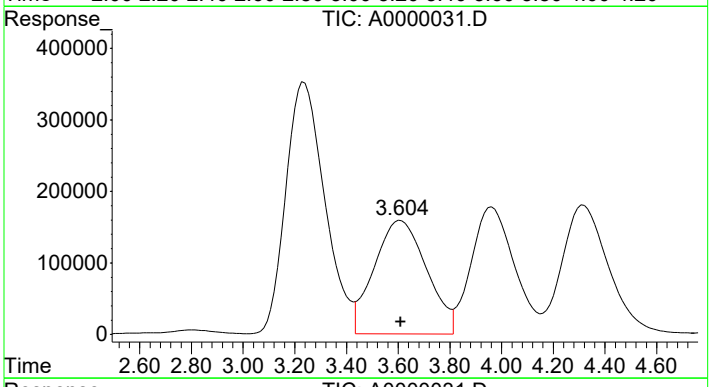
Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210





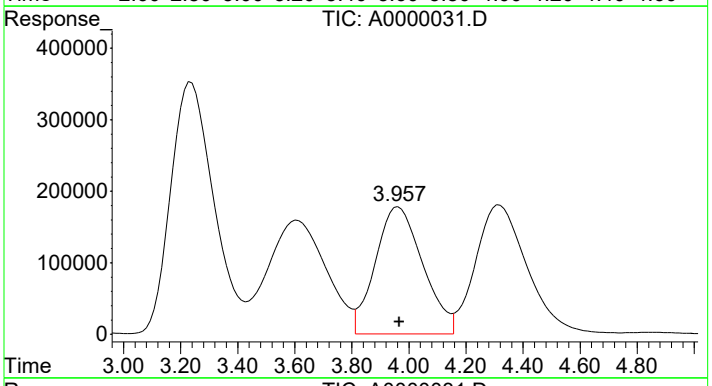
#1 Formic acid

R.T.: 3.236 min
Delta R.T.: 0.001 min
Response: 36753099
Conc: 409.90 ppm



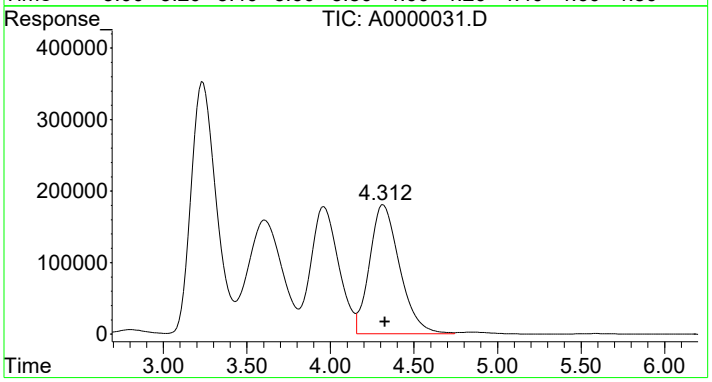
#2 Pyruvic acid

R.T.: 3.609 min
Delta R.T.: 0.000 min
Response: 22480781
Conc: 42.74 ppm



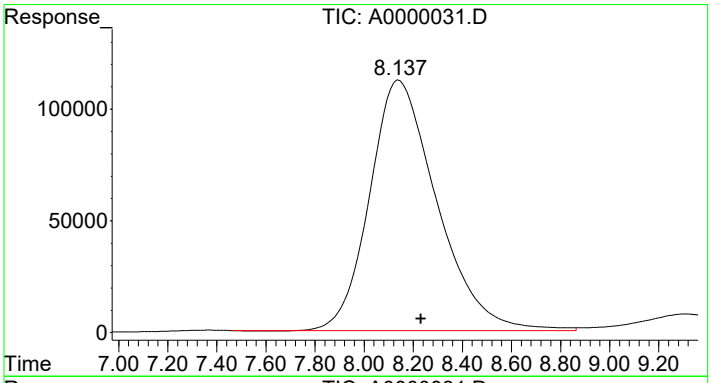
#3 Lactic Acid

R.T.: 3.963 min
Delta R.T.: -0.003 min
Response: 20563817
Conc: 424.49 ppm



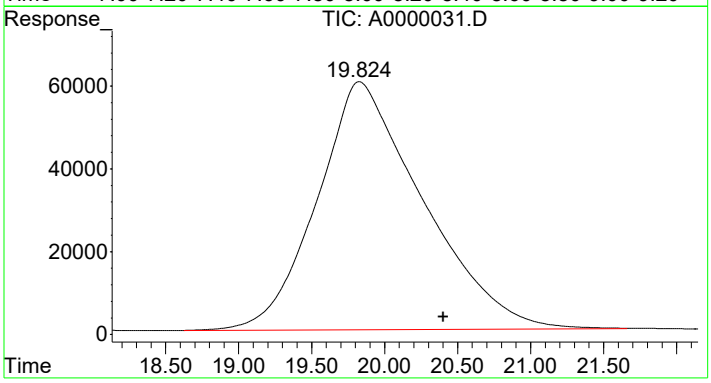
#4 Acetic Acid

R.T.: 4.318 min
Delta R.T.: -0.008 min
Response: 22741006
Conc: 424.24 ppm



#5 Propionic Acid

R.T.: 8.142 min
Delta R.T.: -0.090 min
Response: 21417256
Conc: 387.49 ppm



#6 Butyric Acid

R.T.: 19.824 min
Delta R.T.: -0.578 min
Response: 30244852
Conc: 399.85 ppm m

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\HPLC08\DATA\071124\
Data File : A0000032.D
Signal(s) : dad1A.ch
Acq On : 11-Jul-2024, 18:33:09
Operator : AFelser
Sample : ICV 50
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 12 08:40:34 2024
Quant Method : I:\ACQUDATA\HPLC08\METHODS\8-MA071124.M
Quant Title : organic acids
QLast Update : Fri Jul 12 08:40:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergi hydro rp
Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 t	Formic acid	50.000	52.628	-5.3	102	0.00
2 T	Pyruvic acid	5.000	4.924	1.5	104	0.00
3 T	Lactic Acid	50.000	51.786	-3.6	110	0.00
4 T	Acetic Acid	50.000	54.784	-9.6	107	0.00
5 T	Propionic Acid	50.000	49.993	0.0	96	0.03
6 T	Butyric Acid	50.000	49.330	1.3	97	0.21

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408140
Project: Olean OU3 12-Month Sampling **Calibration Date:** 7/11/2024

Initial Calibration Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Calibration ID: RC2400131 **Signal ID:** synergi hydro rp
Instrument ID: R-HPLC-08

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC2400131-01	0.1/1 STD	I:\ACQUDATA\HPLC08\DATA\071124\A0000023.D	07/11/2024 13:47
02	RC2400131-02	0.2/2 STD	I:\ACQUDATA\HPLC08\DATA\071124\A0000024.D	07/11/2024 14:18
03	RC2400131-03	0.5/5 STD	I:\ACQUDATA\HPLC08\DATA\071124\A0000025.D	07/11/2024 14:50
04	RC2400131-04	1/10 STD	I:\ACQUDATA\HPLC08\DATA\071124\A0000026.D	07/11/2024 15:22
05	RC2400131-05	2/20 STD	I:\ACQUDATA\HPLC08\DATA\071124\A0000027.D	07/11/2024 15:54
06	RC2400131-06	5/50 STD	I:\ACQUDATA\HPLC08\DATA\071124\A0000028.D	07/11/2024 16:25
07	RC2400131-07	10/100 STD	I:\ACQUDATA\HPLC08\DATA\071124\A0000029.D	07/11/2024 16:57
08	RC2400131-08	20/200 STD	I:\ACQUDATA\HPLC08\DATA\071124\A0000030.D	07/11/2024 17:29
09	RC2400131-09	40/400 STD	I:\ACQUDATA\HPLC08\DATA\071124\A0000031.D	07/11/2024 18:01

Analyte

Acetic Acid

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	4.345E4	02	2.000	4.478E4	03	5.000	4.795E4	04	10.000	5.158E4
05	20.000	5.54E4	06	50.000	5.36E4	07	100.000	5.898E4	08	200.000	5.709E4
09	400.000	5.685E4									

Butanoic Acid (Butyric Acid)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	5.000	6.407E4	04	10.000	7.47E4	05	20.000	7.343E4	06	50.000	7.564E4
07	100.000	8.1E4	08	200.000	7.71E4	09	400.000	7.561E4			

Propionic Acid

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	5.217E4	02	2.000	4.813E4	03	5.000	5.171E4	04	10.000	5.395E4
05	20.000	5.466E4	06	50.000	5.527E4	07	100.000	5.671E4	08	200.000	5.379E4
09	400.000	5.354E4									

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408140
Project: Olean OU3 12-Month Sampling **Calibration Date:** 7/11/2024

Initial Calibration Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Calibration ID: RC2400131 **Signal ID:** synergi hydro rp
Instrument ID: R-HPLC-08

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Acetic Acid	TRG	Average RF	% RSD	10.8	≤	5.219E4	
Butanoic Acid (Butyric Acid)	TRG	Average RF	% RSD	7.0	≤	7.451E4	
Propionic Acid	TRG	Average RF	% RSD	4.6	≤	5.333E4	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:** R2408140
Project: Olean OU3 12-Month Sampling **Calibration Date:** 7/11/2024

Initial Calibration Verification Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Calibration ID: RC2400131 **Signal ID:** synergi hydro rp
Instrument ID: R-HPLC-08

#	Lab Code	Sample Name	File Location	Acquisition Date
10	RC2400131-10	ICV 50	I:\ACQUDATA\HPLC08\DATA\071124\A0000032.D	07/11/2024 18:33

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Acetic Acid	50.0	54.8	5.219E4	5.718E4	9.57	±30	Average RF
Butanoic Acid (Butyric Acid)	50.0	49.3	7.451E4	7.351E4	-1.341	±30	Average RF
Propionic Acid	50.0	50.0	5.333E4	5.332E4	-0.013	±30	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	09/04/24 21:34

Continuing Calibration Verification (CCV) Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method:	Organic Acids	**Calibration Date:**	7/11/2024
File ID:	I:\ACQUDATA\HPLC08\DATA\090424\A0000202.D\	**Calibration ID:**	RC2400131
Signal ID:	synergi hydro rp	**Analysis Lot:**	853323
		Units:	ppm

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Acetic Acid	50.0	53.4	5.219E4	5.575E4	6.8	NA	±20	Average RF
Butanoic Acid (Butyric Acid)	50.0	43.6	7.451E4	6.494E4	-12.8	NA	±20	Average RF
Propionic Acid	50.0	49.5	5.333E4	5.277E4	-1.0	NA	±20	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	09/05/24 03:23

Continuing Calibration Verification (CCV) Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method:	Organic Acids	**Calibration Date:**	7/11/2024
File ID:	I:\ACQUDATA\HPLC08\DATA\090424\A0000213.D\	**Calibration ID:**	RC2400131
Signal ID:	synergi hydro rp	**Analysis Lot:**	853323
		Units:	ppm

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Acetic Acid	50.0	54.0	5.219E4	5.633E4	7.9	NA	±20	Average RF
Butanoic Acid (Butyric Acid)	50.0	47.5	7.451E4	7.073E4	-5.1	NA	±20	Average RF
Propionic Acid	50.0	50.0	5.333E4	5.334E4	0.0	NA	±20	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	09/05/24 09:13

Continuing Calibration Verification (CCV) Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method:	Organic Acids	**Calibration Date:**	7/11/2024
File ID:	I:\ACQUDATA\HPLC08\DATA\090424\A0000224.D\	**Calibration ID:**	RC2400131
Signal ID:	synergi hydro rp	**Analysis Lot:**	853323
		Units:	ppm

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Acetic Acid	50.0	53.3	5.219E4	5.563E4	6.6	NA	±20	Average RF
Butanoic Acid (Butyric Acid)	50.0	46.2	7.451E4	6.882E4	-7.6	NA	±20	Average RF
Propionic Acid	50.0	52.0	5.333E4	5.549E4	4.1	NA	±20	Average RF

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Analyzed:**	09/05/24 11:52

Continuing Calibration Verification (CCV) Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method:	Organic Acids	**Calibration Date:**	7/11/2024
File ID:	I:\ACQUDATA\HPLC08\DATA\090424\A0000229.D\	**Calibration ID:**	RC2400131
Signal ID:	synergi hydro rp	**Analysis Lot:**	853323
		Units:	ppm

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Acetic Acid	50.0	52.9	5.219E4	5.521E4	5.8	NA	±20	Average RF
Butanoic Acid (Butyric Acid)	50.0	45.8	7.451E4	6.827E4	-8.4	NA	±20	Average RF
Propionic Acid	50.0	49.9	5.333E4	5.317E4	-0.3	NA	±20	Average RF

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408140
Project: Olean OU3 12-Month Sampling/300-082

Analysis Run Log

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids **Analysis Lot:**853323
Instrument ID:R-HPLC-08

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\HPLC08\DATA\090424\A0000202.D\	Continuing Calibration Verification	RQ2411191-01	9/4/2024	21:34:11	
I:\ACQUDATA\HPLC08\DATA\090424\A0000203.D\	Method Blank	RQ2411191-02	9/4/2024	22:05:59	
I:\ACQUDATA\HPLC08\DATA\090424\A0000204.D\	Lab Control Sample	RQ2411191-03	9/4/2024	22:37:46	
I:\ACQUDATA\HPLC08\DATA\090424\A0000205.D\	Duplicate Lab Control Sample	RQ2411191-04	9/4/2024	23:09:34	
I:\ACQUDATA\HPLC08\DATA\090424\A0000206.D\	ZZZZZZZ	ZZZZZZZ	9/4/2024	23:41:23	
I:\ACQUDATA\HPLC08\DATA\090424\A0000207.D\	ZZZZZZZ	ZZZZZZZ	9/5/2024	00:13:09	
I:\ACQUDATA\HPLC08\DATA\090424\A0000208.D\	ZZZZZZZ	ZZZZZZZ	9/5/2024	00:44:55	
I:\ACQUDATA\HPLC08\DATA\090424\A0000209.D\	ZZZZZZZ	ZZZZZZZ	9/5/2024	01:16:41	
I:\ACQUDATA\HPLC08\DATA\090424\A0000210.D\	ZZZZZZZ	ZZZZZZZ	9/5/2024	01:48:27	
I:\ACQUDATA\HPLC08\DATA\090424\A0000211.D\	ZZZZZZZ	ZZZZZZZ	9/5/2024	02:20:12	
I:\ACQUDATA\HPLC08\DATA\090424\A0000212.D\	ZZZZZZZ	ZZZZZZZ	9/5/2024	02:51:58	
I:\ACQUDATA\HPLC08\DATA\090424\A0000213.D\	Continuing Calibration Verification	RQ2411191-05	9/5/2024	03:23:44	
I:\ACQUDATA\HPLC08\DATA\090424\A0000214.D\	ZZZZZZZ	ZZZZZZZ	9/5/2024	03:55:31	
I:\ACQUDATA\HPLC08\DATA\090424\A0000215.D\	ZZZZZZZ	ZZZZZZZ	9/5/2024	04:27:19	
I:\ACQUDATA\HPLC08\DATA\090424\A0000216.D\	ZZZZZZZ	ZZZZZZZ	9/5/2024	04:59:07	
I:\ACQUDATA\HPLC08\DATA\090424\A0000218.D\	ZZZZZZZ	ZZZZZZZ	9/5/2024	06:02:42	
I:\ACQUDATA\HPLC08\DATA\090424\A0000219.D\	OLN-UA003-F009	R2408140-002	9/5/2024	06:34:29	
I:\ACQUDATA\HPLC08\DATA\090424\A0000220.D\	OLN-UA002-F009	R2408140-003	9/5/2024	07:06:13	
I:\ACQUDATA\HPLC08\DATA\090424\A0000221.D\	OLN-FB001-B009	R2408140-004	9/5/2024	07:37:58	
I:\ACQUDATA\HPLC08\DATA\090424\A0000222.D\	OLN-EB001-E009	R2408140-007	9/5/2024	08:09:43	
I:\ACQUDATA\HPLC08\DATA\090424\A0000223.D\	OLN-FB002-B009	R2408140-008	9/5/2024	08:41:31	
I:\ACQUDATA\HPLC08\DATA\090424\A0000224.D\	Continuing Calibration Verification	RQ2411191-08	9/5/2024	09:13:19	
I:\ACQUDATA\HPLC08\DATA\090424\A0000225.D\	OLN-RU028-F009	R2408140-010	9/5/2024	09:45:05	

Client: Civil & Environmental Consultants, Incorporated (CEC) **Service Request:**R2408140
Project: Olean OU3 12-Month Sampling/300-082

Analysis Run Log

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids **Analysis Lot:**853323
Instrument ID:R-HPLC-08

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\HPLC08\DATA\090424\A0000226.D\	OLN-RU020-F009	R2408140-011	9/5/2024	10:16:55	
I:\ACQUDATA\HPLC08\DATA\090424\A0000227.D\	OLN-RU021-F009	R2408140-012	9/5/2024	10:48:41	
I:\ACQUDATA\HPLC08\DATA\090424\A0000228.D\	OLN-FD002-D009	R2408140-013	9/5/2024	11:20:27	
I:\ACQUDATA\HPLC08\DATA\090424\A0000229.D\	Continuing Calibration Verification	RQ2411191-09	9/5/2024	11:52:15	

Metabolic Acids
Instrument: R-HPLC-08

Analyst: AReber / KP
Date: 9/4/24
ICAL: RC 240015

Run Method: METAcids
Quant Method: S- MA071124
LIMS Run#: 853322 & 853323

Setup:
Column: Synergi Hydro RP
Mobile Phase: 0.01M KH_2PO_4 in 0.1M H_3PO_4
Mobile Phase ID: 237098

Col.Temp: 35°C Flow: 0.6 mL/min
ul Inj.: 50

Pos.	Sample	Diln.*	Stds. ID	pH	Filtered	File#	OK?	Comments
2	Blk			<2	n/a	AC0000191	—	
2	Blk					92	—	
1	CCV	50µL/1mL	235845			93	Y	
2	MB					94	Y	
3	LCS	20µL/1mL	235846			95	Y	
4	DLCS	↓	↓			96	Y	
5	R2408213-001					97	Y	
6	R2408214-001					98	Y	
7	R2408215-001					99	Y	
8	-001 MS		235846			200	Y	
9	-001 DMS		↓			01	Y	
1	CCV	50µL/1mL	235845			02	Y	
10	MB					03	Y	
11	LCS	20µL/1mL	235846			04	Y	
12	DLCS	↓	↓			05	Y	
13	R2408139-001					06	Y	
14	-002					07	Y	
15	-003					08	Y	
16	-004					09	Y	
17	-005					10	Y	
18	-007					11	Y	
19	-008					12	Y	
20	CCV	50µL/1mL	235845			13	Y	
21	R2408139-008 MS		235846			14	Y	
22	-008 DMS		↓			15	Y	
23	-010					16	Y	
24	-012					17	N	2LR. RA @ 45
25	-013					18	Y	
26	R2408140-002					19	Y	
27	-003					20	Y	
28	-004					21	Y	
29	-007			↓	↓	22	Y	

Primary: 235845 exp: 9/23/24
Secondary: 235846 Exp: 12/3/24
pH Paper: 204524
Acidified DI: 234459
Filters: n/a

MB is Acidified DI

*Notation for standards is Amount of Standard/Final Volume with Acidified DI.

Metabolic Acids | Analyst: APalmer / KP | Run Method: METACIDS

Instrument: R-HPLC-08 | Date: 9/4/24 cont. | Quant Method: S-MA071124

ICAL: RC 24090131 | LIMS Run#: 853823

Setup: Column: Synergi Hydro RP | Col.Temp: 35°C | Flow: 0.6 mL/min

Mobile Phase: 0.01M KH2PO4 in 0.1M H3PO4 | ul Inj.: 30

Mobile Phase ID: 232498

Pos.	Sample	Diln.*	Stds. ID	pH	Filtered	File#	OK?	Comments
30	R2408140-008			2.2	n/a	A0000223	Y	
20	CCV	50µL/mL	235845	↓	↓	24	Y	
31	R2408140-010					25	Y	
32	↓ -011					26	Y	
33	-012					27	Y	
34	-013					28	Y	
20	CCV	50µL/mL	235845	↓	↓	29	Y	

Primary: 235845 exp: 9/28/24 | Secondary: 235846 Exp: 12/6/24

pH Paper: 204524 | Acidified DI: 234459 | Filters: n/a

MB is Acidified DI

*Notation for standards is Amount of Standard/Final Volume with Acidified DI.

Metals

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Form 1

Inorganic Analysis Data Sheet

Metals by EPA 6010D

Workorder

R2408140

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 12-Month Sampling

09/24/2024

ALS Environmental–Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408140**

Metals by EPA 6010D (P)

OLN-UA003-F009	Collected	Received	Matrix	Prep Method
R2408140-002	08/20/24 1337	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	09/09/24 19:00	R-ICP-AES-07_853503	444305
P	Iron, Dissolved	5520		ug/L	70	100	1	09/09/24 19:00	R-ICP-AES-07_853503	444305
P	Manganese, Dissolved	1440		ug/L	4	10	1	09/09/24 19:00	R-ICP-AES-07_853503	444305

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408140**

Metals by EPA 6010D (P)

OLN-UA002-F009	Collected	Received	Matrix	Prep Method
R2408140-003	08/20/24 1525	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	09/09/24 19:03	R-ICP-AES-07_853503	444305
P	Iron, Dissolved	1600		ug/L	70	100	1	09/09/24 19:03	R-ICP-AES-07_853503	444305
P	Manganese, Dissolved	1250		ug/L	4	10	1	09/09/24 19:03	R-ICP-AES-07_853503	444305

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408140**

Metals by EPA 6010D (P)

OLN-FB001-B009	Collected	Received	Matrix	Prep Method
R2408140-004	08/20/24 1625	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	09/09/24 19:07	R-ICP-AES-07_853503	444305
P	Iron, Dissolved	100	U	ug/L	70	100	1	09/09/24 19:07	R-ICP-AES-07_853503	444305
P	Manganese, Dissolved	10	U	ug/L	4	10	1	09/09/24 19:07	R-ICP-AES-07_853503	444305

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408140**

Metals by EPA 6010D (P)

OLN-CW13A-F009	Collected	Received	Matrix	Prep Method
R2408140-005	08/21/24 0833	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	09/09/24 19:10	R-ICP-AES-07_853503	444305
P	Iron, Dissolved	3060		ug/L	70	100	1	09/09/24 19:10	R-ICP-AES-07_853503	444305
P	Manganese, Dissolved	3890		ug/L	4	10	1	09/09/24 19:10	R-ICP-AES-07_853503	444305

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408140**

Metals by EPA 6010D (P)

OLV-CW013-F009	Collected	Received	Matrix	Prep Method
R2408140-006	08/21/24 0941	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	09/09/24 19:13	R-ICP-AES-07_853503	444305
P	Iron, Dissolved	3120		ug/L	70	100	1	09/09/24 19:13	R-ICP-AES-07_853503	444305
P	Manganese, Dissolved	346		ug/L	4	10	1	09/09/24 19:13	R-ICP-AES-07_853503	444305

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408140**

Metals by EPA 6010D (P)

OLN-EB001-E009	Collected	Received	Matrix	Prep Method
R2408140-007	08/21/24 1015	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	09/09/24 19:16	R-ICP-AES-07_853503	444305
P	Iron, Dissolved	100	U	ug/L	70	100	1	09/09/24 19:16	R-ICP-AES-07_853503	444305
P	Manganese, Dissolved	10	U	ug/L	4	10	1	09/09/24 19:16	R-ICP-AES-07_853503	444305

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408140**

Metals by EPA 6010D (P)

OLN-FB002-B009	Collected	Received	Matrix	Prep Method
R2408140-008	08/21/24 1035	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	09/09/24 19:20	R-ICP-AES-07_853503	444305
P	Iron, Dissolved	100	U	ug/L	70	100	1	09/09/24 19:20	R-ICP-AES-07_853503	444305
P	Manganese, Dissolved	10	U	ug/L	4	10	1	09/09/24 19:20	R-ICP-AES-07_853503	444305

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408140**

Metals by EPA 6010D (P)

OLN-18M-F009	Collected	Received	Matrix	Prep Method
R2408140-009	08/21/24 1104	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	09/09/24 19:23	R-ICP-AES-07_853503	444305
P	Iron, Dissolved	100	U	ug/L	70	100	1	09/09/24 19:23	R-ICP-AES-07_853503	444305
P	Manganese, Dissolved	10	J	ug/L	4	10	1	09/09/24 19:23	R-ICP-AES-07_853503	444305

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 12-Month Sampling	**R2408140**	

Metals by EPA 6010D (P)

OLN-RU028-F009	Collected	Received	Matrix	Prep Method
R2408140-010	08/21/24 1306	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	09/09/24 19:32	R-ICP-AES-07_853503	444305
P	Iron, Dissolved	690		ug/L	70	100	1	09/09/24 19:32	R-ICP-AES-07_853503	444305
P	Manganese, Dissolved	3140		ug/L	4	10	1	09/09/24 19:32	R-ICP-AES-07_853503	444305

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408140**

Metals by EPA 6010D (P)

OLN-RU020-F009	Collected	Received	Matrix	Prep Method
R2408140-011	08/21/24 1547	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	6	J	ug/L	6	10	1	09/09/24 19:36	R-ICP-AES-07_853503	444305
P	Iron, Dissolved	310		ug/L	70	100	1	09/09/24 19:36	R-ICP-AES-07_853503	444305
P	Manganese, Dissolved	811		ug/L	4	10	1	09/09/24 19:36	R-ICP-AES-07_853503	444305

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408140**

Metals by EPA 6010D (P)

OLN-RU021-F009	Collected	Received	Matrix	Prep Method
R2408140-012	08/22/24 0831	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	100		ug/L	6	10	1	09/09/24 19:39	R-ICP-AES-07_853503	444305
P	Iron, Dissolved	59300		ug/L	70	100	1	09/09/24 19:39	R-ICP-AES-07_853503	444305
P	Manganese, Dissolved	4190		ug/L	4	10	1	09/09/24 19:39	R-ICP-AES-07_853503	444305

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408140**

Metals by EPA 6010D (P)

OLN-FD002-D009	Collected	Received	Matrix	Prep Method
R2408140-013	08/22/24 2200	08/23/24 0930	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	102		ug/L	6	10	1	09/09/24 19:42	R-ICP-AES-07_853503	444305
P	Iron, Dissolved	60300		ug/L	70	100	1	09/09/24 19:42	R-ICP-AES-07_853503	444305
P	Manganese, Dissolved	4240		ug/L	4	10	1	09/09/24 19:42	R-ICP-AES-07_853503	444305

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder
Project	Olean OU3 12-Month Sampling	**R2408140**

Metals by EPA 6010D (P)

Method Blank

	Matrix	Prep Method
R2408140-MB	Water	3005A/3010A

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Arsenic, Dissolved	10	U	ug/L	6	10	1	09/09/24 18:54	R-ICP-AES-07_853503	444305
P	Iron, Dissolved	100	U	ug/L	70	100	1	09/09/24 18:54	R-ICP-AES-07_853503	444305
P	Manganese, Dissolved	10	U	ug/L	4	10	1	09/09/24 18:54	R-ICP-AES-07_853503	444305

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Metals Data Cover Sheet

Run Date: 9/9/2024

Data File: 090924A-ICP7

Primary Reviewer: C.Kutzer

Secondary Reviewer: N. Mansen

LIMS Runs:	LIMS Preps:	
853499	444147, 444157	TIER II
853501	444307	CCV4
853803	444305	CCV4
853504	444306	CCV5
853508	444308	TIER II
853513	444356	TIER II

Comments:
N/A

ICP-7 Run Log

Serial number: MY2309CQ22

Analyst: NM Date: 9/9/24 Data File: 090924A-ICP7

	Prep Date	Lot #
MRL	–	–
ICSA/SIC	7/12/24	M87S0046A
ICSAB	–	–
Int. Std	8/27/24	M87S0057J
ICV/CCV	9/9/24	M87A0072BB

	Prep Date	Lot #
Cal Std 1	7/29/24	M87S0003B
Cal Std 2 1/100 cal 6, 3 1/50 cal 6, 4 1/10 cal 6, 5 1/5 cal 6		
Cal Std ~~5/HLCCV~~ 6	7/29/24	M87S0014A
HLCCV A	7/12/24	M87S0036A
HLCCV B	8/15/24	M87S0101B

(~~Cal Std 4 is a 1/5 and Cal Std 3 is a 1/100 dilution of Cal Std 5~~) NM 9/9/24

Blank Prep - Daily	NHO3	HCl	Pipet Used	DOD Pipet Verification	~~IEC Date~~ Filter Lot #
Lot	235979	235981	M36, M37	–	233323

1:1	PBW-444147	1:12	PBW-444307 F	1:38	PBW-444305
1:2	LCSW-444147	1:13	LCSW-444307 F	1:39	LCSW-444305
1:3	DLCSW-444147	1:14	R2408422-001	1:40	R2408140-002
1:4	R2408346-002 2X	1:15	R2408422-002	1:41	R2408140-003
1:5	R2408346-002L 10X	1:16	R2408422-003	1:42	R2408140-004
S1:3	Continuing Calibration Verification	1:17	R2408422-004	1:43	R2408140-005
S1:4	Continuing Calibration Blank	1:18	R2408422-004S	1:44	R2408140-006
1:6	PBW-444157	1:19	R2408422-004SD	1:45	R2408140-007
1:7	LCSW-444157	1:20	R2408422-004A	1:46	R2408140-008
1:8	DLCSW-444157	1:21	R2408422-004L 5X	1:47	R2408140-009
1:9	R2408385-019 10X	S1:3	Continuing Calibration Verification	S1:3	Continuing Calibration Verification
1:10	R2408385-020 10X	S1:4	Continuing Calibration Blank	S1:4	Continuing Calibration Blank
1:11	R2408385-020L 50X	1:22	R2408422-005	1:48	R2408140-010
S1:3	Continuing Calibration Verification	1:23	R2408422-006	1:49	R2408140-011
S1:4	Continuing Calibration Blank	1:24	R2408422-007	1:50	R2408140-012
		1:25	R2408422-008	1:51	R2408140-013
		1:26	R2408422-009	1:52	R2408140-013L 5X
		1:27	R2408422-010 F	1:53	R2408146-082
		1:28	R2408422-011	1:54	R2408421-001
		1:29	R2408422-012	1:55	R2408421-001S
		1:30	R2408444-001	1:56	R2408421-001SD
		1:31	R2408444-001L 5X	1:57	R2408421-001A
		S1:3	Continuing Calibration Verification	S1:3	Continuing Calibration Verification
		S1:4	Continuing Calibration Blank	S1:4	Continuing Calibration Blank
		1:32	R2408444-002	1:58	R2408421-001L 5X
		1:33	R2408444-003	1:59	R2408421-002
		1:34	R2408444-004	1:60	R2408421-003
		1:35	R2408444-005	2:1	R2408421-004
		1:36	R2408422-006 10X	2:2	R2408421-005
		1:37	R2408422-010 10X	S1:3	Continuing Calibration Verification
		S1:3	Continuing Calibration Verification	S1:4	Continuing Calibration Blank
		S1:4	Continuing Calibration Blank		

NM 9/9/24 Page 1/2

ICP-7 Run Log

Serial number: MY2309CQ22

Analyst: NM Date: 9/9/24 Data File: 090924A-ICP7

	Prep Date	Lot #			Prep Date	Lot #
MRL				Cal Std 1		
ICSA				Cal Std 2		
ICSAB	NM 9/9/24			Cal Std 5/ HLCCV1		
Int. Std				HLCCV2		
ICV/CCV				HLCCV3		

(Cal Std 4 is a 1/5 and Cal Std 3 is a 1/100 dilution of Cal Std 5)

Blank Prep - Daily	NHO3	HCl		Pipet Used	DOD Pipet Verification		IEC Date
Lot							

2:3	PBW-444306 F	2:32	PBW-444308	3:1	PBT-444356
2:4	LCSW-444306 F	2:33	LCSW-444308	3:2	LCST-444356
2:5	R2408212-001	2:34	DLCSW-444308	3:3	RQ2411022-01 3X
2:6	R2408212-002	2:35	R2408410-001	3:4	RQ2411022-02 3X
2:7	R2408212-003	2:36	R2408410-002	3:5	RQ2411027-01
2:8	R2408212-004	2:37	R2408410-003	3:6	R2408251-001 3X
2:9	R2408212-005	2:38	R2408410-004	3:7	R2408366-001
2:10	R2408212-006	2:39	R2408410-005	3:8	R2408414-001 3X
2:11	R2408212-007	2:40	R2408410-006	3:9	R2408466-001 3X
2:12	R2408212-008	2:41	R2408410-007	3:10	R2408466-001S 3X
S1:5	Continuing Calibration Verification1	S1:5	Continuing Calibration Verification1	S1:5	Continuing Calibration Verification1
S1:6	Continuing Calibration Blank1	S1:6	Continuing Calibration Blank1	S1:6	Continuing Calibration Blank1
2:13	R2408212-009	2:42	R2408410-008	3:11	R2408466-001SD 3X
2:14	R2408212-010	2:43	~~R2408410-009~~	3:12	R2408466-001A 3X
2:15	R2408212-010S	2:44	R2408410-010	3:13	R2408466-001L 15X
2:16	R2408212-010SD	2:45	R2408410-011	3:14	R2408251-001 30X
2:17	R2408212-010A	2:46	R2408410-012	3:15	R2408366-001 10X
2:18	R2408212-010L 5X	2:47	R2408410-013 20X	3:16	R2408414-001 30X
2:19	R2408212-011	2:48	R2408410-015	S1:5	Continuing Calibration Verification1
S1:5	Continuing Calibration Verification1	2:49	R2408410-016	S1:6	Continuing Calibration Blank1
S1:6	Continuing Calibration Blank1	2:50	R2408410-017		
2:20	R2408411-002 10X	S1:5	Continuing Calibration Verification1		
2:21	R2408411-003	S1:6	Continuing Calibration Blank1		
2:22	R2408411-005 F	2:51	R2408410-018 20X		
2:23	R2408411-006 F	2:52	R2408410-018L 100X		
2:24	R2408411-007	2:53	R2408410-004 5X		
2:25	R2408411-008	2:54	R2408410-005 5X		
2:26	R2408411-009	2:55	R2408410-006 5X		
2:27	R2408411-010	2:56	R2408410-007 5X		
2:28	R2408411-002 ~~5X~~ 50X	2:57	R2408410-008 5X		
2:29	R2408411-005 5X	2:58	R2408410-013 100X		
S1:5	Continuing Calibration Verification1	2:59	R2408410-015 5X		
S1:6	Continuing Calibration Blank1	2:60	R2408410-018 100X		
2:30	R2408411-006 5X	S1:5	Continuing Calibration Verification1		
2:31	R2408411-007 5X	S1:6	Continuing Calibration Blank1		
S1:5	Continuing Calibration Verification1				
S1:6	Continuing Calibration Blank1				

NM 9/9/24 Page 2/2

Created Date/Time	9/9/2024 14:53:12	Software Version	7.6.1.12212
Instrument Name	MY2309CQ22	Firmware Version	5590
File Path	C:\Agilent\ICP Expert\My Results\2024\090924A-ICP7.esws		
Notes	NMansen 9/9/24		

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
9/9/2024 15:36:13	Blank	Ag (328.068 nm)	0.0000	N/A	-112.3430
	Blank	Al (237.312 nm)	0.0000	N/A	-14.4650
	Blank	As (188.980 nm)	0.0000	N/A	-1.3590
	Blank	B (249.772 nm)	0.0000	N/A	41.8370
	Blank	Ba (230.424 nm)	0.0000	N/A	6.0881
	Blank	Be (313.107 nm)	0.0000	N/A	-13.1260
	Blank	Ca (317.933 nm)	0.0000	N/A	1113.7733
	Blank	Cd (214.439 nm)	0.0000	N/A	9.6207
	Blank	Co (230.786 nm)	0.0000	N/A	4.9957
	Blank	Cr (267.716 nm)	0.0000	N/A	3.9859
	Blank	Cu (327.395 nm)	0.0000	N/A	-139.8226
	Blank	Fe (234.350 nm)	0.0000	N/A	50.7591
	Blank	K (766.491 nm)	0.0000	N/A	369.3993
	Blank	Mg (279.078 nm)	0.0000	N/A	1.1255
	Blank	Mn (257.610 nm)	0.0000	N/A	11.7958
	Blank	Mo (202.032 nm)	0.0000	N/A	6.7174
	Blank	Na (588.995 nm)	0.0000	N/A	-10298.6882
	Blank	Ni (230.299 nm)	0.0000	N/A	3.0117
	Blank	Pb (220.353 nm)	0.0000	N/A	1.4174
	Blank	Sb (217.582 nm)	0.0000	N/A	7.2072
	Blank	Se (196.026 nm)	0.0000	N/A	1.8580
	Blank	Si (252.851 nm)	0.0000	N/A	50.4403
	Blank	Sn (189.925 nm)	0.0000	N/A	3.0254
	Blank	Sr (216.596 nm)	0.0000	N/A	5.8390
	Blank	Ti (336.122 nm)	0.0000	N/A	68.1423
	Blank	Tl (190.794 nm)	0.0000	N/A	-1.6487
	Blank	V (292.401 nm)	0.0000	N/A	14.3124
	Blank	Y (360.074 nm)	1.00	0.00	515825.41
	Blank	Y_R (360.074 nm)	1.00	0.00	515791.78
	Blank	Zn (213.857 nm)	0.0000	N/A	14.3311
9/9/2024 15:39:29	Standard 1	Ag (328.068 nm)		N/A	-117.4217
	Standard 1	Al (237.312 nm)	0.1000	N/A	245.9538
	Standard 1	As (188.980 nm)	0.0100	N/A	12.6192
	Standard 1	B (249.772 nm)		N/A	243.2464
	Standard 1	Ba (230.424 nm)	0.0200	N/A	1212.7418
	Standard 1	Be (313.107 nm)	0.0030	N/A	3284.6477
	Standard 1	Ca (317.933 nm)		N/A	1353.4463
	Standard 1	Cd (214.439 nm)	0.0050	N/A	320.4138
	Standard 1	Co (230.786 nm)		N/A	2.2348
	Standard 1	Cr (267.716 nm)		N/A	18.0629
	Standard 1	Cu (327.395 nm)	0.0100	N/A	308.0947
	Standard 1	Fe (234.350 nm)		N/A	303.2594
	Standard 1	K (766.491 nm)		N/A	336.6881
	Standard 1	Mg (279.078 nm)		N/A	3.8200
	Standard 1	Mn (257.610 nm)	0.0100	N/A	3522.1712
	Standard 1	Mo (202.032 nm)	0.0250	N/A	258.7275
	Standard 1	Na (588.995 nm)		N/A	-9915.2321
	Standard 1	Ni (230.299 nm)		N/A	2.2507
	Standard 1	Pb (220.353 nm)	0.0050	N/A	27.8605
	Standard 1	Sb (217.582 nm)	0.0600	N/A	140.3852
	Standard 1	Se (196.026 nm)		N/A	4.6784
	Standard 1	Si (252.851 nm)		N/A	621.2835

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Standard 1	Sn (189.925 nm)		N/A	9.7521
	Standard 1	Sr (216.596 nm)		N/A	7.2734
	Standard 1	Ti (336.122 nm)		N/A	94.1169
	Standard 1	Tl (190.794 nm)	0.0100	N/A	6.7425
	Standard 1	V (292.401 nm)		N/A	7.3745
	Standard 1	Y (360.074 nm)	0.99	0.56	511918.71
	Standard 1	Y_R (360.074 nm)	0.99	0.55	511948.14
	Standard 1	Zn (213.857 nm)		N/A	32.7537
9/9/2024 15:42:44	Standard 2	Ag (328.068 nm)	0.0100	N/A	442.3564
	Standard 2	Al (237.312 nm)	0.2000	N/A	497.0328
	Standard 2	As (188.980 nm)	0.0200	N/A	29.7064
	Standard 2	B (249.772 nm)	0.1000	N/A	4112.5083
	Standard 2	Ba (230.424 nm)	0.2000	N/A	12253.0226
	Standard 2	Be (313.107 nm)	0.0050	N/A	5769.3205
	Standard 2	Ca (317.933 nm)	0.5000	N/A	21229.7930
	Standard 2	Cd (214.439 nm)	0.0100	N/A	612.8269
	Standard 2	Co (230.786 nm)	0.0500	N/A	1019.6967
	Standard 2	Cr (267.716 nm)	0.0100	N/A	602.4419
	Standard 2	Cu (327.395 nm)	0.0250	N/A	951.1154
	Standard 2	Fe (234.350 nm)	0.1000	N/A	2378.7652
	Standard 2	K (766.491 nm)	0.5000	N/A	929.5772
	Standard 2	Mg (279.078 nm)	0.5000	N/A	2004.4557
	Standard 2	Mn (257.610 nm)	0.0150	N/A	5284.5425
	Standard 2	Mo (202.032 nm)	0.0500	N/A	522.7665
	Standard 2	Na (588.995 nm)	0.5000	N/A	-1197.3178
	Standard 2	Ni (230.299 nm)	0.0400	N/A	516.5938
	Standard 2	Pb (220.353 nm)	0.0100	N/A	50.3149
	Standard 2	Sb (217.582 nm)	0.1000	N/A	232.0226
	Standard 2	Se (196.026 nm)	0.0100	N/A	8.4417
	Standard 2	Si (252.851 nm)	0.5000	N/A	3199.6305
	Standard 2	Sn (189.925 nm)	0.1000	N/A	272.4654
	Standard 2	Sr (216.596 nm)	0.0500	N/A	967.7190
	Standard 2	Ti (336.122 nm)	0.0500	N/A	7573.0950
	Standard 2	Tl (190.794 nm)	0.0200	N/A	17.6157
	Standard 2	V (292.401 nm)	0.0500	N/A	1821.3957
	Standard 2	Y (360.074 nm)	1.00	0.56	514085.25
	Standard 2	Y_R (360.074 nm)	1.00	0.56	514123.62
	Standard 2	Zn (213.857 nm)	0.0200	N/A	1321.8826
9/9/2024 15:45:59	Standard 3	Ag (328.068 nm)	0.0200	N/A	994.4768
	Standard 3	Al (237.312 nm)	0.4000	N/A	1010.3380
	Standard 3	As (188.980 nm)	0.0400	N/A	62.0208
	Standard 3	B (249.772 nm)	0.2000	N/A	8262.4058
	Standard 3	Ba (230.424 nm)	0.4000	N/A	24706.9104
	Standard 3	Be (313.107 nm)	0.0100	N/A	11745.6566
	Standard 3	Ca (317.933 nm)	1.0000	N/A	33317.3998
	Standard 3	Cd (214.439 nm)	0.0200	N/A	1218.7712
	Standard 3	Co (230.786 nm)	0.1000	N/A	2062.2145
	Standard 3	Cr (267.716 nm)	0.0200	N/A	1198.4000
	Standard 3	Cu (327.395 nm)	0.0500	N/A	2038.0976
	Standard 3	Fe (234.350 nm)	0.2000	N/A	4697.2184
	Standard 3	K (766.491 nm)	1.0000	N/A	1511.9950
	Standard 3	Mg (279.078 nm)	1.0000	N/A	4038.7498
	Standard 3	Mn (257.610 nm)	0.0300	N/A	10608.1112
	Standard 3	Mo (202.032 nm)	0.1000	N/A	1047.3345
	Standard 3	Na (588.995 nm)	1.0000	N/A	7724.6085
	Standard 3	Ni (230.299 nm)	0.0800	N/A	1044.4129
	Standard 3	Pb (220.353 nm)	0.0200	N/A	102.4249

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Standard 3	Sb (217.582 nm)	0.2000	N/A	458.5695
	Standard 3	Se (196.026 nm)	0.0200	N/A	16.7281
	Standard 3	Si (252.851 nm)	1.0000	N/A	6400.9573
	Standard 3	Sn (189.925 nm)	0.2000	N/A	541.3780
	Standard 3	Sr (216.596 nm)	0.1000	N/A	1951.8136
	Standard 3	Ti (336.122 nm)	0.1000	N/A	15228.5998
	Standard 3	Tl (190.794 nm)	0.0400	N/A	36.4580
	Standard 3	V (292.401 nm)	0.1000	N/A	3646.8202
	Standard 3	Y (360.074 nm)	0.99	0.26	513016.84
	Standard 3	Y_R (360.074 nm)	0.99	0.26	512978.08
	Standard 3	Zn (213.857 nm)	0.0400	N/A	2477.2824
9/9/2024 15:49:15	Standard 4	Ag (328.068 nm)	0.1000	N/A	5443.3526
	Standard 4	Al (237.312 nm)	2.0000	N/A	5059.8605
	Standard 4	As (188.980 nm)	0.2000	N/A	319.0959
	Standard 4	B (249.772 nm)	1.0000	N/A	41572.4222
	Standard 4	Ba (230.424 nm)	2.0000	N/A	122096.9206
	Standard 4	Be (313.107 nm)	0.0500	N/A	59575.5377
	Standard 4	Ca (317.933 nm)	5.0000	N/A	159108.8857
	Standard 4	Cd (214.439 nm)	0.1000	N/A	6029.8126
	Standard 4	Co (230.786 nm)	0.5000	N/A	10204.2944
	Standard 4	Cr (267.716 nm)	0.1000	N/A	5852.7540
	Standard 4	Cu (327.395 nm)	0.2500	N/A	10753.0286
	Standard 4	Fe (234.350 nm)	1.0000	N/A	23008.1976
	Standard 4	K (766.491 nm)	5.0000	N/A	6328.3359
	Standard 4	Mg (279.078 nm)	5.0000	N/A	20292.6076
	Standard 4	Mn (257.610 nm)	0.1500	N/A	52147.2712
	Standard 4	Mo (202.032 nm)	0.5000	N/A	5317.1404
	Standard 4	Na (588.995 nm)	5.0000	N/A	81047.2827
	Standard 4	Ni (230.299 nm)	0.4000	N/A	5138.1911
	Standard 4	Pb (220.353 nm)	0.1000	N/A	512.7348
	Standard 4	Sb (217.582 nm)	1.0000	N/A	2281.4106
	Standard 4	Se (196.026 nm)	0.1000	N/A	77.7486
	Standard 4	Si (252.851 nm)	5.0000	N/A	32100.0818
	Standard 4	Sn (189.925 nm)	1.0000	N/A	2676.1569
	Standard 4	Sr (216.596 nm)	0.5000	N/A	9663.0694
	Standard 4	Ti (336.122 nm)	0.5000	N/A	75658.0786
	Standard 4	Tl (190.794 nm)	0.2000	N/A	195.5536
	Standard 4	V (292.401 nm)	0.5000	N/A	18282.0772
	Standard 4	Y (360.074 nm)	0.98	0.36	507581.45
	Standard 4	Y_R (360.074 nm)	0.98	0.36	507580.13
	Standard 4	Zn (213.857 nm)	0.2000	N/A	11711.1730
9/9/2024 15:52:29	Standard 5	Ag (328.068 nm)	0.2000	N/A	11038.2344
	Standard 5	Al (237.312 nm)	4.0000	N/A	10145.4126
	Standard 5	As (188.980 nm)	0.4000	N/A	642.3444
	Standard 5	B (249.772 nm)	2.0000	N/A	83937.0523
	Standard 5	Ba (230.424 nm)	4.0000	N/A	244197.7977
	Standard 5	Be (313.107 nm)	0.1000	N/A	119914.3692
	Standard 5	Ca (317.933 nm)	10.0000	N/A	317369.9160
	Standard 5	Cd (214.439 nm)	0.2000	N/A	12053.0202
	Standard 5	Co (230.786 nm)	1.0000	N/A	20298.9190
	Standard 5	Cr (267.716 nm)	0.2000	N/A	11686.3502
	Standard 5	Cu (327.395 nm)	0.5000	N/A	21768.9625
	Standard 5	Fe (234.350 nm)	2.0000	N/A	45636.4058
	Standard 5	K (766.491 nm)	10.0000	N/A	12578.1195
	Standard 5	Mg (279.078 nm)	10.0000	N/A	40345.4971
	Standard 5	Mn (257.610 nm)	0.3000	N/A	103697.0036
	Standard 5	Mo (202.032 nm)	1.0000	N/A	10749.4957

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Standard 5	Na (588.995 nm)	10.0000	N/A	174827.8877
	Standard 5	Ni (230.299 nm)	0.8000	N/A	10215.0137
	Standard 5	Pb (220.353 nm)	0.2000	N/A	1024.7299
	Standard 5	Sb (217.582 nm)	2.0000	N/A	4588.4992
	Standard 5	Se (196.026 nm)	0.2000	N/A	155.2308
	Standard 5	Si (252.851 nm)	10.0000	N/A	64056.9529
	Standard 5	Sn (189.925 nm)	2.0000	N/A	5292.5402
	Standard 5	Sr (216.596 nm)	1.0000	N/A	19293.5476
	Standard 5	Ti (336.122 nm)	1.0000	N/A	152753.6916
	Standard 5	Tl (190.794 nm)	0.4000	N/A	386.8699
	Standard 5	V (292.401 nm)	1.0000	N/A	36708.2084
	Standard 5	Y (360.074 nm)	0.97	0.34	502511.22
	Standard 5	Y_R (360.074 nm)	0.97	0.34	502483.99
	Standard 5	Zn (213.857 nm)	0.4000	N/A	23517.7535
9/9/2024 15:55:44	Standard 6	Ag (328.068 nm)	1.0000	N/A	56316.6713
	Standard 6	Al (237.312 nm)	20.0000	N/A	51100.8136
	Standard 6	As (188.980 nm)	2.0000	N/A	3272.8512
	Standard 6	B (249.772 nm)	10.0000	N/A	432586.0037
	Standard 6	Ba (230.424 nm)	20.0000	N/A	1174349.8098
	Standard 6	Be (313.107 nm)	0.5000	N/A	599275.4705
	Standard 6	Ca (317.933 nm)	50.0000	N/A	1549421.5474
	Standard 6	Cd (214.439 nm)	1.0000	N/A	59643.3794
	Standard 6	Co (230.786 nm)	5.0000	N/A	99203.5233
	Standard 6	Cr (267.716 nm)	1.0000	N/A	57590.6521
	Standard 6	Cu (327.395 nm)	2.5000	N/A	111839.0491
	Standard 6	Fe (234.350 nm)	10.0000	N/A	224275.7852
	Standard 6	K (766.491 nm)	50.0000	N/A	65496.8116
	Standard 6	Mg (279.078 nm)	50.0000	N/A	202364.1767
	Standard 6	Mn (257.610 nm)	1.5000	N/A	509762.3897
	Standard 6	Mo (202.032 nm)	5.0000	N/A	53822.3160
	Standard 6	Na (588.995 nm)	50.0000	N/A	931894.1181
	Standard 6	Ni (230.299 nm)	4.0000	N/A	49969.2005
	Standard 6	Pb (220.353 nm)	1.0000	N/A	4964.7484
	Standard 6	Sb (217.582 nm)	10.0000	N/A	23281.6271
	Standard 6	Se (196.026 nm)	1.0000	N/A	794.8517
	Standard 6	Si (252.851 nm)	50.0000	N/A	327158.1534
	Standard 6	Sn (189.925 nm)	10.0000	N/A	25908.5730
	Standard 6	Sr (216.596 nm)	5.0000	N/A	94629.3540
	Standard 6	Ti (336.122 nm)	5.0000	N/A	766215.0863
	Standard 6	Tl (190.794 nm)	2.0000	N/A	1887.7867
	Standard 6	V (292.401 nm)	5.0000	N/A	183804.8638
	Standard 6	Y (360.074 nm)	0.93	0.31	481449.39
	Standard 6	Y_R (360.074 nm)	0.93	0.31	481482.06
	Standard 6	Zn (213.857 nm)	2.0000	N/A	119311.5166
9/9/2024 15:59:29	Initial Calibration Verification	Ag (328.068 nm)	0.5081	0.14	28392.3046
	Initial Calibration Verification	Al (237.312 nm)	9.8228	0.24	24989.1653
	Initial Calibration Verification	As (188.980 nm)	1.0033	0.29	1607.4167
	Initial Calibration Verification	B (249.772 nm)	2.3220	0.13	97157.1756
	Initial Calibration Verification	Ba (230.424 nm)	9.8283	0.35	596583.4164
	Initial Calibration Verification	Be (313.107 nm)	0.2467	0.01	293654.8844
	Initial Calibration Verification	Ca (317.933 nm)	25.7106	0.09	798108.8387
	Initial Calibration Verification	Cd (214.439 nm)	0.5010	0.07	30074.0021
	Initial Calibration Verification	Co (230.786 nm)	2.4879	0.30	50104.3443
	Initial Calibration Verification	Cr (267.716 nm)	0.5119	0.10	29794.7222
	Initial Calibration Verification	Cu (327.395 nm)	1.2167	0.34	54296.6029
	Initial Calibration Verification	Fe (234.350 nm)	4.9219	0.08	112578.2687
	Initial Calibration Verification	K (766.491 nm)	25.7335	0.54	31956.0359

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Initial Calibration Verification	Mg (279.078 nm)	25.4753	0.07	102870.8138
	Initial Calibration Verification	Mn (257.610 nm)	0.7318	0.05	254113.7958
	Initial Calibration Verification	Mo (202.032 nm)	2.5584	0.16	27435.4678
	Initial Calibration Verification	Na (588.995 nm)	24.9502	0.33	446265.3471
	Initial Calibration Verification	Ni (230.299 nm)	2.0152	0.12	25616.5501
	Initial Calibration Verification	Pb (220.353 nm)	0.5024	0.16	2534.0876
	Initial Calibration Verification	Sb (217.582 nm)	4.9069	0.12	11259.9608
	Initial Calibration Verification	Se (196.026 nm)	0.4841	1.15	380.6543
	Initial Calibration Verification	Si (252.851 nm)	9.9819	0.39	63678.9403
	Initial Calibration Verification	Sn (189.925 nm)	5.0377	0.09	13171.0037
	Initial Calibration Verification	Sr (216.596 nm)	2.5054	0.14	48128.5543
	Initial Calibration Verification	Ti (336.122 nm)	2.5724	0.04	393477.6232
	Initial Calibration Verification	Tl (190.794 nm)	1.0016	0.34	958.1346
	Initial Calibration Verification	V (292.401 nm)	2.5315	0.02	92688.2960
	Initial Calibration Verification	Y (360.074 nm)	0.95	0.40	491656.59
	Initial Calibration Verification	Y_R (360.074 nm)	0.95	0.40	491631.86
	Initial Calibration Verification	Zn (213.857 nm)	0.9916	0.15	58851.6895
9/9/2024 16:02:42	Initial Calibration Blank	Ag (328.068 nm)	0.0000 u	> 100.00	-110.0412
	Initial Calibration Blank	Al (237.312 nm)	0.0000 u	> 100.00	-14.3487
	Initial Calibration Blank	As (188.980 nm)	0.0019	93.12	1.6236
	Initial Calibration Blank	B (249.772 nm)	0.0037	9.03	195.9448
	Initial Calibration Blank	Ba (230.424 nm)	0.0002	18.70	15.7647
	Initial Calibration Blank	Be (313.107 nm)	0.0000 u	> 100.00	-13.2772
	Initial Calibration Blank	Ca (317.933 nm)	0.0006	65.75	1133.8586
	Initial Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	10.0853
	Initial Calibration Blank	Co (230.786 nm)	0.0000 u	> 100.00	4.8562
	Initial Calibration Blank	Cr (267.716 nm)	0.0000 u	> 100.00	5.1794
	Initial Calibration Blank	Cu (327.395 nm)	0.0002	94.87	-131.5805
	Initial Calibration Blank	Fe (234.350 nm)	0.0049	17.21	162.1596
	Initial Calibration Blank	K (766.491 nm)	-0.0098 u	> 100.00	357.4179
	Initial Calibration Blank	Mg (279.078 nm)	-0.0004 u	68.18	-0.4250
	Initial Calibration Blank	Mn (257.610 nm)	0.0000 u	> 100.00	12.9796
	Initial Calibration Blank	Mo (202.032 nm)	0.0066	18.88	77.1583
	Initial Calibration Blank	Na (588.995 nm)	-0.0731 u	4.41	-11636.9012
	Initial Calibration Blank	Ni (230.299 nm)	0.0000 u	> 100.00	3.3339
	Initial Calibration Blank	Pb (220.353 nm)	-0.0002 u	> 100.00	0.6042
	Initial Calibration Blank	Sb (217.582 nm)	0.0078	9.54	25.0025
	Initial Calibration Blank	Se (196.026 nm)	-0.0014 u	> 100.00	0.7822
	Initial Calibration Blank	Si (252.851 nm)	0.0065	20.75	91.6357
	Initial Calibration Blank	Sn (189.925 nm)	0.0021	36.79	8.5070
	Initial Calibration Blank	Sr (216.596 nm)	-0.0001 u	64.51	4.6198
	Initial Calibration Blank	Ti (336.122 nm)	0.0080	24.16	1296.1662
	Initial Calibration Blank	Tl (190.794 nm)	-0.0005 u	> 100.00	-2.0976
	Initial Calibration Blank	V (292.401 nm)	0.0000 u	> 100.00	12.8752
	Initial Calibration Blank	Y (360.074 nm)	1.00	0.09	515815.50
	Initial Calibration Blank	Y_R (360.074 nm)	1.00	0.10	515787.76
	Initial Calibration Blank	Zn (213.857 nm)	-0.0001 u	64.68	9.9829
9/9/2024 16:05:57	Mixed SIC/ICS	Ag (328.068 nm)	0.0003	74.29	-98.2318
	Mixed SIC/ICS	Al (237.312 nm)	514.1987 o	0.06	1308857.7860
	Mixed SIC/ICS	As (188.980 nm)	0.0017 u	> 100.00	1.3728
	Mixed SIC/ICS	B (249.772 nm)	0.1104	0.30	4660.7972
	Mixed SIC/ICS	Ba (230.424 nm)	0.0026	6.67	165.6439
	Mixed SIC/ICS	Be (313.107 nm)	0.0006	1.06	722.0822
	Mixed SIC/ICS	Ca (317.933 nm)	446.9918 o	0.21	13857253.4702
	Mixed SIC/ICS	Cd (214.439 nm)	0.0027	4.52	172.0112
	Mixed SIC/ICS	Co (230.786 nm)	0.0010	15.37	24.3429
	Mixed SIC/ICS	Cr (267.716 nm)	0.0014	7.61	86.2269

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Mixed SIC/ICS	Cu (327.395 nm)	0.0010	15.97	-95.0486
	Mixed SIC/ICS	Fe (234.350 nm)	179.4750 o	0.15	4103357.4852
	Mixed SIC/ICS	K (766.491 nm)	0.0645	29.92	448.6099
	Mixed SIC/ICS	Mg (279.078 nm)	532.7554 o	0.17	2151279.0938
	Mixed SIC/ICS	Mn (257.610 nm)	0.0019	0.98	680.5260
	Mixed SIC/ICS	Mo (202.032 nm)	0.0014	34.92	21.2193
	Mixed SIC/ICS	Na (588.995 nm)	0.3102	2.74	-4622.5079
	Mixed SIC/ICS	Ni (230.299 nm)	0.0029	15.91	40.0682
	Mixed SIC/ICS	Pb (220.353 nm)	0.0005 u	> 100.00	3.7655
	Mixed SIC/ICS	Sb (217.582 nm)	-0.0012 u	> 100.00	4.4436
	Mixed SIC/ICS	Se (196.026 nm)	-0.0092 u	68.68	-5.3101
	Mixed SIC/ICS	Si (252.851 nm)	0.0213	10.05	186.4078
	Mixed SIC/ICS	Sn (189.925 nm)	0.0030	22.41	10.7494
	Mixed SIC/ICS	Sr (216.596 nm)	0.0191	1.27	372.2847
	Mixed SIC/ICS	Ti (336.122 nm)	0.0024	41.10	428.8963
	Mixed SIC/ICS	Tl (190.794 nm)	-0.0021 u	64.81	-3.6293
	Mixed SIC/ICS	V (292.401 nm)	0.0002	95.14	21.3431
	Mixed SIC/ICS	Y (360.074 nm)	0.82	0.51	425075.26
	Mixed SIC/ICS	Y_R (360.074 nm)	0.82	0.51	425076.63
	Mixed SIC/ICS	Zn (213.857 nm)	0.0289 K	0.19	1730.2519 K
9/9/2024 16:09:12	HLCCVA	Ag (328.068 nm)	2.1996 o	0.04	123286.9912
	HLCCVA	Al (237.312 nm)	513.5210 o	0.10	1307132.7973
	HLCCVA	As (188.980 nm)	4.3080 o	0.25	6906.2300
	HLCCVA	B (249.772 nm)	48.6892 o	0.09	2036419.4163
	HLCCVA	Ba (230.424 nm)	37.9778 o	0.27	2305264.0813
	HLCCVA	Be (313.107 nm)	1.0029 o	0.06	1193582.0684
	HLCCVA	Ca (317.933 nm)	237.0146 o	0.32	7348243.4774
	HLCCVA	Cd (214.439 nm)	1.9273 o	0.17	115660.4985
	HLCCVA	Co (230.786 nm)	9.5432 o	0.10	192176.4644
	HLCCVA	Cr (267.716 nm)	9.9258 o	0.15	577600.8306
	HLCCVA	Cu (327.395 nm)	21.6743 o	0.34	969619.1322
	HLCCVA	Fe (234.350 nm)	93.0217 o	0.18	2126789.9783
	HLCCVA	K (766.491 nm)	128.9945 Qo	0.30	158703.9271 Q
	HLCCVA	Mg (279.078 nm)	524.4522 o	0.18	2117750.8923
	HLCCVA	Mn (257.610 nm)	9.4697 o	0.18	3287985.0304
	HLCCVA	Mo (202.032 nm)	10.1000 o	0.12	108288.3601
	HLCCVA	Na (588.995 nm)	268.0868 o	0.40	4895427.9751
	HLCCVA	Ni (230.299 nm)	7.4001 o	0.18	94058.5479
	HLCCVA	Pb (220.353 nm)	9.5442 o	0.14	48112.6780
	HLCCVA	Sb (217.582 nm)	0.0197	19.99	52.3183
	HLCCVA	Se (196.026 nm)	10.3702 o	0.15	8116.0117
	HLCCVA	Si (252.851 nm)	61.3145 Qo	0.15	390894.2500 Q
	HLCCVA	Sn (189.925 nm)	0.0032	30.59	11.4214
	HLCCVA	Sr (216.596 nm)	9.7751 o	0.30	187763.2820
	HLCCVA	Ti (336.122 nm)	10.2090 o	0.24	1561382.1668
	HLCCVA	Tl (190.794 nm)	3.7481 o	0.17	3589.8958
	HLCCVA	V (292.401 nm)	10.1823 o	0.13	372772.3932
	HLCCVA	Y (360.074 nm)	0.82	0.43	423694.05
	HLCCVA	Y_R (360.074 nm)	0.82	0.42	423676.80
	HLCCVA	Zn (213.857 nm)	10.3781 o	0.13	615821.9805
9/9/2024 16:12:27	HLCCVB	Ag (328.068 nm)	0.0000 u	> 100.00	-111.1934
	HLCCVB	Al (237.312 nm)	0.0221	6.25	41.8678
	HLCCVB	As (188.980 nm)	0.0024	35.86	2.4293
	HLCCVB	B (249.772 nm)	0.0462	5.93	1973.5004
	HLCCVB	Ba (230.424 nm)	0.0007	7.41	51.1238
	HLCCVB	Be (313.107 nm)	0.0000	37.08	-5.1602
	HLCCVB	Ca (317.933 nm)	191.0823 o	0.30	5924405.5306

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	HLCCVB	Cd (214.439 nm)	0.0007	5.99	54.0560
	HLCCVB	Co (230.786 nm)	-0.0002 u	18.32	1.6372
	HLCCVB	Cr (267.716 nm)	0.0014	10.49	86.6331
	HLCCVB	Cu (327.395 nm)	4.2130 o	0.23	188357.9765
	HLCCVB	Fe (234.350 nm)	38.0919 o	0.19	870938.7245
	HLCCVB	K (766.491 nm)	120.0164 Qo	0.27	147683.6959 Q
	HLCCVB	Mg (279.078 nm)	418.7980 o	0.21	1691116.6886
	HLCCVB	Mn (257.610 nm)	0.0112	0.08	3896.3810
	HLCCVB	Mo (202.032 nm)	0.0105	18.02	119.3329
	HLCCVB	Na (588.995 nm)	158.9355 o	0.44	2898066.4840
	HLCCVB	Ni (230.299 nm)	0.0008	49.64	13.0077
	HLCCVB	Pb (220.353 nm)	0.0013	72.44	7.8889
	HLCCVB	Sb (217.582 nm)	-0.0022 u	4.09	2.0782
	HLCCVB	Se (196.026 nm)	0.0036	66.40	4.6694
	HLCCVB	Si (252.851 nm)	0.0334	26.59	263.0644
	HLCCVB	Sn (189.925 nm)	0.0012	76.87	6.0685
	HLCCVB	Sr (216.596 nm)	0.0072	2.29	144.1672
	HLCCVB	Ti (336.122 nm)	0.0273	12.57	4238.8903
	HLCCVB	Tl (190.794 nm)	2.8541 o	0.25	2733.2138
	HLCCVB	V (292.401 nm)	-0.0003 u	65.14	2.1336
	HLCCVB	Y (360.074 nm)	0.86	0.25	446166.48
	HLCCVB	Y_R (360.074 nm)	0.87	0.25	446265.85
	HLCCVB	Zn (213.857 nm)	0.0093	0.65	567.4909
9/9/2024 16:15:41	Continuing Calibration Verification	Ag (328.068 nm)	0.5096	0.07	28478.2457
	Continuing Calibration Verification	Al (237.312 nm)	9.8808	0.19	25136.8150
	Continuing Calibration Verification	As (188.980 nm)	1.0022	0.09	1605.6622
	Continuing Calibration Verification	B (249.772 nm)	2.3366	0.03	97769.9015
	Continuing Calibration Verification	Ba (230.424 nm)	9.8679	0.49	598988.5761
	Continuing Calibration Verification	Be (313.107 nm)	0.2474	0.06	294416.6847
	Continuing Calibration Verification	Ca (317.933 nm)	25.8438	0.17	802236.9019
	Continuing Calibration Verification	Cd (214.439 nm)	0.5027	0.17	30175.1241
	Continuing Calibration Verification	Co (230.786 nm)	2.5015	0.17	50378.3177
	Continuing Calibration Verification	Cr (267.716 nm)	0.5133	0.16	29872.4437
	Continuing Calibration Verification	Cu (327.395 nm)	1.2225	0.13	54557.9990
	Continuing Calibration Verification	Fe (234.350 nm)	4.9626	0.15	113510.7209
	Continuing Calibration Verification	K (766.491 nm)	25.8223	0.45	32064.9762
	Continuing Calibration Verification	Mg (279.078 nm)	25.6178	0.14	103446.4155
	Continuing Calibration Verification	Mn (257.610 nm)	0.7347	0.12	255123.2416
	Continuing Calibration Verification	Mo (202.032 nm)	2.5685	0.16	27543.3103
	Continuing Calibration Verification	Na (588.995 nm)	25.0468	0.38	448034.0091
	Continuing Calibration Verification	Ni (230.299 nm)	2.0199	0.06	25676.2561
	Continuing Calibration Verification	Pb (220.353 nm)	0.5037	0.13	2540.4440
	Continuing Calibration Verification	Sb (217.582 nm)	4.9147	0.05	11277.7084
	Continuing Calibration Verification	Se (196.026 nm)	0.4892	0.89	384.5918
	Continuing Calibration Verification	Si (252.851 nm)	10.1183	0.91	64548.5622
	Continuing Calibration Verification	Sn (189.925 nm)	5.0582	0.14	13224.6093
	Continuing Calibration Verification	Sr (216.596 nm)	2.5140	0.33	48293.5438
	Continuing Calibration Verification	Ti (336.122 nm)	2.5755	0.11	393952.4377
	Continuing Calibration Verification	Tl (190.794 nm)	1.0000	0.20	956.5308
	Continuing Calibration Verification	V (292.401 nm)	2.5402	0.04	93008.2735
	Continuing Calibration Verification	Y (360.074 nm)	0.95	0.30	492395.45
	Continuing Calibration Verification	Y_R (360.074 nm)	0.95	0.31	492387.25
	Continuing Calibration Verification	Zn (213.857 nm)	0.9953	0.01	59073.2413
9/9/2024 16:18:55	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u	> 100.00	-114.9050
	Continuing Calibration Blank	Al (237.312 nm)	0.0025	66.28	-8.0635
	Continuing Calibration Blank	As (188.980 nm)	0.0014	86.72	0.8110
	Continuing Calibration Blank	B (249.772 nm)	0.0066	10.53	318.8704

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Ba (230.424 nm)	0.0002	43.92	18.0595
	Continuing Calibration Blank	Be (313.107 nm)	0.0000 u	> 100.00	-14.3029
	Continuing Calibration Blank	Ca (317.933 nm)	0.0009	33.03	1142.3928
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	9.5177
	Continuing Calibration Blank	Co (230.786 nm)	-0.0003 u	25.72	-0.2834
	Continuing Calibration Blank	Cr (267.716 nm)	0.0001	89.15	7.3123
	Continuing Calibration Blank	Cu (327.395 nm)	-0.0001 u	> 100.00	-145.1636
	Continuing Calibration Blank	Fe (234.350 nm)	0.0057	21.03	180.2445
	Continuing Calibration Blank	K (766.491 nm)	0.0463	40.96	426.2143
	Continuing Calibration Blank	Mg (279.078 nm)	0.0007	44.23	3.7695
	Continuing Calibration Blank	Mn (257.610 nm)	0.0000	54.49	25.1781
	Continuing Calibration Blank	Mo (202.032 nm)	0.0062	14.71	73.5656
	Continuing Calibration Blank	Na (588.995 nm)	0.0787	7.87	-8858.9864
	Continuing Calibration Blank	Ni (230.299 nm)	0.0001	72.65	4.5897
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0006 u	> 100.00	-1.4479
	Continuing Calibration Blank	Sb (217.582 nm)	0.0065	4.38	22.1173
	Continuing Calibration Blank	Se (196.026 nm)	-0.0013 u	32.36	0.8477
	Continuing Calibration Blank	Si (252.851 nm)	0.0071	23.15	95.6249
	Continuing Calibration Blank	Sn (189.925 nm)	0.0010	70.15	5.6541
	Continuing Calibration Blank	Sr (216.596 nm)	0.0000 u	> 100.00	5.3457
	Continuing Calibration Blank	Ti (336.122 nm)	0.0075	24.41	1207.5399
	Continuing Calibration Blank	Tl (190.794 nm)	0.0010 u	> 100.00	-0.6603
	Continuing Calibration Blank	V (292.401 nm)	-0.0001 u	78.79	11.0123
	Continuing Calibration Blank	Y (360.074 nm)	1.00	0.15	516461.49
	Continuing Calibration Blank	Y_R (360.074 nm)	1.00	0.15	516409.27
	Continuing Calibration Blank	Zn (213.857 nm)	0.0000	> 100.00	16.5348
9/9/2024 16:22:09	PBW-444147	Ag (328.068 nm)	0.0000 u	> 100.00	-111.1297
	PBW-444147	Al (237.312 nm)	0.0054	4.07	-0.6831
	PBW-444147	As (188.980 nm)	-0.0006 u	> 100.00	-2.3072
	PBW-444147	B (249.772 nm)	0.0059	2.86	289.7409
	PBW-444147	Ba (230.424 nm)	0.0002	33.87	15.9339
	PBW-444147	Be (313.107 nm)	0.0000 u	> 100.00	-14.6450
	PBW-444147	Ca (317.933 nm)	0.0129	1.17	1513.5819
	PBW-444147	Cd (214.439 nm)	0.0001	97.56	13.7051
	PBW-444147	Co (230.786 nm)	-0.0001 u	33.19	2.3559
	PBW-444147	Cr (267.716 nm)	0.0000 u	> 100.00	6.7205
	PBW-444147	Cu (327.395 nm)	0.0000 u	> 100.00	-139.0053
	PBW-444147	Fe (234.350 nm)	0.0056	15.77	178.5180
	PBW-444147	K (766.491 nm)	0.0115 u	> 100.00	383.5690
	PBW-444147	Mg (279.078 nm)	0.0003 u	> 100.00	2.2473
	PBW-444147	Mn (257.610 nm)	0.0001	15.03	31.5227
	PBW-444147	Mo (202.032 nm)	0.0018	16.77	26.1774
	PBW-444147	Na (588.995 nm)	0.0650	8.85	-9108.6755
	PBW-444147	Ni (230.299 nm)	-0.0001 u	> 100.00	1.4864
	PBW-444147	Pb (220.353 nm)	-0.0002 u	> 100.00	0.3413
	PBW-444147	Sb (217.582 nm)	0.0236	6.85	61.2546
	PBW-444147	Se (196.026 nm)	-0.0013 u	> 100.00	0.8668
	PBW-444147	Si (252.851 nm)	0.0252	7.92	211.1220
	PBW-444147	Sn (189.925 nm)	0.0015	61.77	6.9022
	PBW-444147	Sr (216.596 nm)	0.0000 u	> 100.00	6.1596
	PBW-444147	Ti (336.122 nm)	0.0033	30.90	566.7777
	PBW-444147	Tl (190.794 nm)	0.0001 u	> 100.00	-1.5649
	PBW-444147	V (292.401 nm)	0.0000 u	> 100.00	12.6027
	PBW-444147	Y (360.074 nm)	1.01	0.28	520676.47
	PBW-444147	Y_R (360.074 nm)	1.01	0.28	520583.37
	PBW-444147	Zn (213.857 nm)	0.0002	22.78	27.5733
9/9/2024 16:25:22	LCSW-444147	Ag (328.068 nm)	0.0500	0.33	2690.7618

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	LCSW-444147	Al (237.312 nm)	1.9766	0.04	5016.9837
	LCSW-444147	As (188.980 nm)	0.0378	3.33	59.3297
	LCSW-444147	B (249.772 nm)	0.9227	0.15	38634.3768
	LCSW-444147	Ba (230.424 nm)	1.9645	0.38	119252.3274
	LCSW-444147	Be (313.107 nm)	0.0489	0.12	58209.9383
	LCSW-444147	Ca (317.933 nm)	2.0262	0.17	63924.7118
	LCSW-444147	Cd (214.439 nm)	0.0507	0.24	3051.6915
	LCSW-444147	Co (230.786 nm)	0.5009	0.12	10090.8499
	LCSW-444147	Cr (267.716 nm)	0.2001	0.22	11650.0376
	LCSW-444147	Cu (327.395 nm)	0.2499	0.09	11041.7873
	LCSW-444147	Fe (234.350 nm)	0.9954	0.16	22808.4108
	LCSW-444147	K (766.491 nm)	19.8469	0.21	24730.5683
	LCSW-444147	Mg (279.078 nm)	1.9559	0.22	7899.0227
	LCSW-444147	Mn (257.610 nm)	0.4794	0.14	166460.2017
	LCSW-444147	Mo (202.032 nm)	0.4869	0.70	5227.0658
	LCSW-444147	Na (588.995 nm)	19.5814	0.15	348022.2319
	LCSW-444147	Ni (230.299 nm)	0.4951	0.25	6296.3866
	LCSW-444147	Pb (220.353 nm)	0.5126	0.40	2585.3803
	LCSW-444147	Sb (217.582 nm)	0.5071	1.02	1170.1739
	LCSW-444147	Se (196.026 nm)	0.9962	0.54	781.3657
	LCSW-444147	Si (252.851 nm)	0.3261	0.39	2128.9742
	LCSW-444147	Sn (189.925 nm)	4.9127	0.18	12844.3122
	LCSW-444147	Sr (216.596 nm)	1.9937	0.15	38301.1497
	LCSW-444147	Ti (336.122 nm)	0.4949	0.17	75751.9418
	LCSW-444147	Tl (190.794 nm)	1.9734	0.19	1889.2622
	LCSW-444147	V (292.401 nm)	0.4917	0.19	18014.1968
	LCSW-444147	Y (360.074 nm)	0.98	0.37	507157.57
	LCSW-444147	Y_R (360.074 nm)	0.98	0.36	507095.67
	LCSW-444147	Zn (213.857 nm)	0.5027	0.10	29843.3276
9/9/2024 16:28:37	DLCSW-444147	Ag (328.068 nm)	0.0508	0.05	2735.2601
	DLCSW-444147	Al (237.312 nm)	2.0001	0.25	5076.6296
	DLCSW-444147	As (188.980 nm)	0.0362	0.86	56.7622
	DLCSW-444147	B (249.772 nm)	0.9345	0.12	39126.4772
	DLCSW-444147	Ba (230.424 nm)	1.9926	0.08	120957.7437
	DLCSW-444147	Be (313.107 nm)	0.0495	0.13	58923.7401
	DLCSW-444147	Ca (317.933 nm)	2.0528	0.22	64746.5649
	DLCSW-444147	Cd (214.439 nm)	0.0512	0.38	3083.9382
	DLCSW-444147	Co (230.786 nm)	0.5069	0.26	10212.2794
	DLCSW-444147	Cr (267.716 nm)	0.2028	0.12	11804.0344
	DLCSW-444147	Cu (327.395 nm)	0.2531	0.15	11184.2557
	DLCSW-444147	Fe (234.350 nm)	1.0111	0.23	23166.4108
	DLCSW-444147	K (766.491 nm)	20.0896	0.19	25028.3756
	DLCSW-444147	Mg (279.078 nm)	1.9794	0.12	7994.0841
	DLCSW-444147	Mn (257.610 nm)	0.4854	0.18	168533.8386
	DLCSW-444147	Mo (202.032 nm)	0.4986	0.70	5352.0379
	DLCSW-444147	Na (588.995 nm)	19.8173	0.19	352339.4418
	DLCSW-444147	Ni (230.299 nm)	0.5005	0.08	6364.9630
	DLCSW-444147	Pb (220.353 nm)	0.5189	0.44	2617.1541
	DLCSW-444147	Sb (217.582 nm)	0.5117	0.10	1180.7287
	DLCSW-444147	Se (196.026 nm)	1.0170	0.24	797.6344
	DLCSW-444147	Si (252.851 nm)	0.3275	0.54	2137.9065
	DLCSW-444147	Sn (189.925 nm)	4.9868	0.18	13038.0271
	DLCSW-444147	Sr (216.596 nm)	2.0244	0.23	38890.4360
	DLCSW-444147	Ti (336.122 nm)	0.5039	0.14	77127.6318
	DLCSW-444147	Tl (190.794 nm)	1.9925	0.04	1907.6412
	DLCSW-444147	V (292.401 nm)	0.4977	0.23	18235.2376
	DLCSW-444147	Y (360.074 nm)	0.98	0.24	506932.06

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	DLCSW-444147	Y_R (360.074 nm)	0.98	0.25	506948.81
	DLCSW-444147	Zn (213.857 nm)	0.5085	0.10	30185.0627
9/9/2024 16:31:51	R2408346-002 2X	Ag (328.068 nm)	-0.0001 u	69.63	-117.3247
	R2408346-002 2X	Al (237.312 nm)	-0.0026 u	67.23	-21.0133
	R2408346-002 2X	As (188.980 nm)	0.0038	11.62	4.7588
	R2408346-002 2X	B (249.772 nm)	0.2700	1.51	11336.3955
	R2408346-002 2X	Ba (230.424 nm)	0.0751	1.26	4567.3882
	R2408346-002 2X	Be (313.107 nm)	0.0000 u	> 100.00	-10.1520
	R2408346-002 2X	Ca (317.933 nm)	68.9790 o	1.29	2139369.3881
	R2408346-002 2X	Cd (214.439 nm)	0.0000	67.39	12.1748
	R2408346-002 2X	Co (230.786 nm)	0.0020	7.14	44.2897
	R2408346-002 2X	Cr (267.716 nm)	0.0022	10.19	129.2239
	R2408346-002 2X	Cu (327.395 nm)	0.0247	0.79	964.0096
	R2408346-002 2X	Fe (234.350 nm)	0.7872	1.33	18047.6354
	R2408346-002 2X	K (766.491 nm)	12.2850	1.58	15448.6525
	R2408346-002 2X	Mg (279.078 nm)	9.3434	1.37	37730.0323
	R2408346-002 2X	Mn (257.610 nm)	6.4071 o	1.25	2224618.9749
	R2408346-002 2X	Mo (202.032 nm)	0.0050	21.10	60.0122
	R2408346-002 2X	Na (588.995 nm)	68.1375 o	1.66	1236550.6782
	R2408346-002 2X	Ni (230.299 nm)	0.0142	4.39	183.3595
	R2408346-002 2X	Pb (220.353 nm)	0.0039	18.62	20.8639
	R2408346-002 2X	Sb (217.582 nm)	0.0096	10.82	29.3224
	R2408346-002 2X	Se (196.026 nm)	0.0036	66.05	4.7087
	R2408346-002 2X	Si (252.851 nm)	2.1042	1.61	13463.3712
	R2408346-002 2X	Sn (189.925 nm)	0.0039	30.70	13.2079
	R2408346-002 2X	Sr (216.596 nm)	0.1660	1.46	3194.6221
	R2408346-002 2X	Ti (336.122 nm)	0.0032	23.86	558.1818
	R2408346-002 2X	Tl (190.794 nm)	0.0045	35.48	2.7070
	R2408346-002 2X	V (292.401 nm)	0.0002	48.38	21.8525
	R2408346-002 2X	Y (360.074 nm)	0.95	0.25	491212.55
	R2408346-002 2X	Y_R (360.074 nm)	0.95	0.25	491214.15
	R2408346-002 2X	Zn (213.857 nm)	0.0162	1.37	972.8229
9/9/2024 16:35:05	R2408346-002L 10X	Ag (328.068 nm)	-0.0001 u	> 100.00	-115.4311
	R2408346-002L 10X	Al (237.312 nm)	0.0042	24.78	-3.7413
	R2408346-002L 10X	As (188.980 nm)	0.0024	37.20	2.4589
	R2408346-002L 10X	B (249.772 nm)	0.0594	0.75	2528.1682
	R2408346-002L 10X	Ba (230.424 nm)	0.0148	0.73	902.9264
	R2408346-002L 10X	Be (313.107 nm)	0.0000 u	> 100.00	-17.0131
	R2408346-002L 10X	Ca (317.933 nm)	13.6686	0.70	424820.5540
	R2408346-002L 10X	Cd (214.439 nm)	0.0001 u	> 100.00	12.7392
	R2408346-002L 10X	Co (230.786 nm)	0.0002	> 100.00	8.9312
	R2408346-002L 10X	Cr (267.716 nm)	0.0004	21.17	26.9575
	R2408346-002L 10X	Cu (327.395 nm)	0.0045	7.39	62.0886
	R2408346-002L 10X	Fe (234.350 nm)	0.1562	0.52	3622.8431
	R2408346-002L 10X	K (766.491 nm)	2.2069	0.88	3078.3182
	R2408346-002L 10X	Mg (279.078 nm)	1.8338	0.84	7406.2254
	R2408346-002L 10X	Mn (257.610 nm)	1.2896	0.73	447778.2664
	R2408346-002L 10X	Mo (202.032 nm)	0.0012	47.57	20.0116
	R2408346-002L 10X	Na (588.995 nm)	13.2074	0.93	231383.6963
	R2408346-002L 10X	Ni (230.299 nm)	0.0029	17.59	40.2737
	R2408346-002L 10X	Pb (220.353 nm)	0.0010	71.93	6.3505
	R2408346-002L 10X	Sb (217.582 nm)	0.0059	22.48	20.8433
	R2408346-002L 10X	Se (196.026 nm)	0.0010 u	> 100.00	2.6601
	R2408346-002L 10X	Si (252.851 nm)	0.4754	0.65	3081.0011
	R2408346-002L 10X	Sn (189.925 nm)	0.0015	27.19	6.9182
	R2408346-002L 10X	Sr (216.596 nm)	0.0322	1.07	624.2036
	R2408346-002L 10X	Ti (336.122 nm)	0.0011	33.37	241.3865

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408346-002L 10X	Tl (190.794 nm)	0.0005 u	> 100.00	-1.2029
	R2408346-002L 10X	V (292.401 nm)	0.0000 u	> 100.00	15.4925
	R2408346-002L 10X	Y (360.074 nm)	0.99	0.11	510341.66
	R2408346-002L 10X	Y_R (360.074 nm)	0.99	0.11	510305.47
	R2408346-002L 10X	Zn (213.857 nm)	0.0032	0.98	204.1526
9/9/2024 16:38:19	Continuing Calibration Verification	Ag (328.068 nm)	0.5095	0.04	28471.3651
	Continuing Calibration Verification	Al (237.312 nm)	9.8757	0.08	25123.7726
	Continuing Calibration Verification	As (188.980 nm)	1.0023	0.13	1605.7339
	Continuing Calibration Verification	B (249.772 nm)	2.3229	0.10	97194.2791
	Continuing Calibration Verification	Ba (230.424 nm)	9.8593	0.47	598465.3136
	Continuing Calibration Verification	Be (313.107 nm)	0.2472	0.10	294148.1190
	Continuing Calibration Verification	Ca (317.933 nm)	25.7906	0.18	800588.6031
	Continuing Calibration Verification	Cd (214.439 nm)	0.5015	0.21	30100.7809
	Continuing Calibration Verification	Co (230.786 nm)	2.5029	0.34	50406.5073
	Continuing Calibration Verification	Cr (267.716 nm)	0.5126	0.16	29829.9832
	Continuing Calibration Verification	Cu (327.395 nm)	1.2244	0.21	54643.7663
	Continuing Calibration Verification	Fe (234.350 nm)	4.9286	0.12	112733.3303
	Continuing Calibration Verification	K (766.491 nm)	25.8166	0.20	32058.0221
	Continuing Calibration Verification	Mg (279.078 nm)	25.5292	0.11	103088.5553
	Continuing Calibration Verification	Mn (257.610 nm)	0.7349	0.04	255180.6036
	Continuing Calibration Verification	Mo (202.032 nm)	2.5728	0.16	27589.0386
	Continuing Calibration Verification	Na (588.995 nm)	24.9911	0.32	447014.1703
	Continuing Calibration Verification	Ni (230.299 nm)	2.0226	0.03	25710.7178
	Continuing Calibration Verification	Pb (220.353 nm)	0.5025	0.04	2534.6595
	Continuing Calibration Verification	Sb (217.582 nm)	4.9715	0.32	11408.0741
	Continuing Calibration Verification	Se (196.026 nm)	0.4926	1.35	387.2997
	Continuing Calibration Verification	Si (252.851 nm)	9.9348	0.62	63378.8301
	Continuing Calibration Verification	Sn (189.925 nm)	5.0438	0.02	13187.1635
	Continuing Calibration Verification	Sr (216.596 nm)	2.5136	0.05	48285.7632
	Continuing Calibration Verification	Ti (336.122 nm)	2.5671	0.17	392670.7767
	Continuing Calibration Verification	Tl (190.794 nm)	1.0020	0.08	958.4880
	Continuing Calibration Verification	V (292.401 nm)	2.5387	0.06	92950.3832
	Continuing Calibration Verification	Y (360.074 nm)	0.95	0.47	490404.05
	Continuing Calibration Verification	Y_R (360.074 nm)	0.95	0.48	490348.46
	Continuing Calibration Verification	Zn (213.857 nm)	0.9956	0.18	59093.2519
9/9/2024 16:41:33	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u	> 100.00	-114.5924
	Continuing Calibration Blank	Al (237.312 nm)	0.0008 u	> 100.00	-12.4981
	Continuing Calibration Blank	As (188.980 nm)	0.0017	25.74	1.3220
	Continuing Calibration Blank	B (249.772 nm)	0.0028	10.76	160.8980
	Continuing Calibration Blank	Ba (230.424 nm)	0.0002	58.56	19.3435
	Continuing Calibration Blank	Be (313.107 nm)	0.0000 u	> 100.00	-16.2342
	Continuing Calibration Blank	Ca (317.933 nm)	0.0004	61.13	1127.2855
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	9.8349
	Continuing Calibration Blank	Co (230.786 nm)	-0.0001 u	> 100.00	2.7269
	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u	> 100.00	2.5158
	Continuing Calibration Blank	Cu (327.395 nm)	-0.0002 u	97.81	-147.2539
	Continuing Calibration Blank	Fe (234.350 nm)	0.0047	20.24	158.5520
	Continuing Calibration Blank	K (766.491 nm)	0.0055 u	> 100.00	376.1338
	Continuing Calibration Blank	Mg (279.078 nm)	0.0006	77.22	3.6244
	Continuing Calibration Blank	Mn (257.610 nm)	0.0001	13.52	33.4624
	Continuing Calibration Blank	Mo (202.032 nm)	0.0062	14.66	73.1506
	Continuing Calibration Blank	Na (588.995 nm)	-0.0273 u	18.73	-10799.0832
	Continuing Calibration Blank	Ni (230.299 nm)	0.0000 u	> 100.00	3.2438
	Continuing Calibration Blank	Pb (220.353 nm)	0.0004 u	> 100.00	3.5935
	Continuing Calibration Blank	Sb (217.582 nm)	0.0096	20.97	29.3307
	Continuing Calibration Blank	Se (196.026 nm)	-0.0007 u	> 100.00	1.2788
	Continuing Calibration Blank	Si (252.851 nm)	0.0074	16.92	97.5026

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Sn (189.925 nm)	0.0017	34.73	7.3911
	Continuing Calibration Blank	Sr (216.596 nm)	0.0002 u	> 100.00	9.0879
	Continuing Calibration Blank	Ti (336.122 nm)	0.0070	23.62	1132.6357
	Continuing Calibration Blank	Tl (190.794 nm)	0.0004 u	> 100.00	-1.2608
	Continuing Calibration Blank	V (292.401 nm)	0.0000 u	> 100.00	14.3408
	Continuing Calibration Blank	Y (360.074 nm)	1.00	0.24	515742.67
	Continuing Calibration Blank	Y_R (360.074 nm)	1.00	0.24	515682.87
	Continuing Calibration Blank	Zn (213.857 nm)	0.0000 u	> 100.00	13.1880
9/9/2024 16:44:46	PBW-444157	Ag (328.068 nm)	0.0000 u	> 100.00	-114.9487
	PBW-444157	Al (237.312 nm)	0.0066	18.40	2.4319
	PBW-444157	As (188.980 nm)	0.0006 u	> 100.00	-0.3548
	PBW-444157	B (249.772 nm)	0.0030	4.44	167.6274
	PBW-444157	Ba (230.424 nm)	0.0002	31.29	16.7501
	PBW-444157	Be (313.107 nm)	0.0000	> 100.00	-10.0655
	PBW-444157	Ca (317.933 nm)	0.0097	2.52	1413.0408
	PBW-444157	Cd (214.439 nm)	0.0000 u	> 100.00	9.8886
	PBW-444157	Co (230.786 nm)	-0.0002 u	52.64	0.2249
	PBW-444157	Cr (267.716 nm)	0.0002	9.17	13.2708
	PBW-444157	Cu (327.395 nm)	0.0001	79.80	-136.3741
	PBW-444157	Fe (234.350 nm)	0.0052	10.86	170.4277
	PBW-444157	K (766.491 nm)	0.0283	52.20	404.1843
	PBW-444157	Mg (279.078 nm)	0.0008	39.43	4.5214
	PBW-444157	Mn (257.610 nm)	0.0001	30.06	31.6608
	PBW-444157	Mo (202.032 nm)	0.0016	33.16	23.6501
	PBW-444157	Na (588.995 nm)	-0.0216 u	3.55	-10694.3570
	PBW-444157	Ni (230.299 nm)	-0.0002 u	95.47	0.5267
	PBW-444157	Pb (220.353 nm)	0.0004	60.82	3.3333
	PBW-444157	Sb (217.582 nm)	0.0228	0.08	59.5684
	PBW-444157	Se (196.026 nm)	0.0004 u	> 100.00	2.1767
	PBW-444157	Si (252.851 nm)	0.0185	8.32	168.2385
	PBW-444157	Sn (189.925 nm)	0.0019	40.16	7.9387
	PBW-444157	Sr (216.596 nm)	0.0000 u	> 100.00	5.0143
	PBW-444157	Ti (336.122 nm)	0.0028	32.02	503.8498
	PBW-444157	Tl (190.794 nm)	0.0002 u	> 100.00	-1.4422
	PBW-444157	V (292.401 nm)	-0.0001 u	79.58	9.3900
	PBW-444157	Y (360.074 nm)	1.01	0.29	519633.67
	PBW-444157	Y_R (360.074 nm)	1.01	0.30	519509.14
	PBW-444157	Zn (213.857 nm)	0.0001	9.39	19.7302
9/9/2024 16:48:00	LCSW-444157	Ag (328.068 nm)	0.0503	0.23	2710.4144
	LCSW-444157	Al (237.312 nm)	1.9856	0.27	5039.9123
	LCSW-444157	As (188.980 nm)	0.0370	1.23	58.0326
	LCSW-444157	B (249.772 nm)	0.9237	0.07	38676.6996
	LCSW-444157	Ba (230.424 nm)	1.9748	0.24	119878.7477
	LCSW-444157	Be (313.107 nm)	0.0492	0.09	58497.7357
	LCSW-444157	Ca (317.933 nm)	2.0362	0.18	64234.4317
	LCSW-444157	Cd (214.439 nm)	0.0509	0.30	3062.9493
	LCSW-444157	Co (230.786 nm)	0.5027	0.13	10128.2518
	LCSW-444157	Cr (267.716 nm)	0.2009	0.19	11695.9969
	LCSW-444157	Cu (327.395 nm)	0.2510	0.17	11090.4620
	LCSW-444157	Fe (234.350 nm)	0.9983	0.18	22874.4977
	LCSW-444157	K (766.491 nm)	19.9127	0.39	24811.2437
	LCSW-444157	Mg (279.078 nm)	1.9649	0.28	7935.4555
	LCSW-444157	Mn (257.610 nm)	0.4817	0.14	167268.3927
	LCSW-444157	Mo (202.032 nm)	0.4904	0.88	5264.5276
	LCSW-444157	Na (588.995 nm)	19.6265	0.23	348847.7291
	LCSW-444157	Ni (230.299 nm)	0.4981	0.27	6334.2950
	LCSW-444157	Pb (220.353 nm)	0.5154	0.25	2599.7320

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	LCSW-444157	Sb (217.582 nm)	0.5099	0.82	1176.6300
	LCSW-444157	Se (196.026 nm)	1.0056	1.16	788.6968
	LCSW-444157	Si (252.851 nm)	0.3256	0.27	2125.8136
	LCSW-444157	Sn (189.925 nm)	4.9649	0.20	12980.7930
	LCSW-444157	Sr (216.596 nm)	2.0138	0.17	38685.9184
	LCSW-444157	Ti (336.122 nm)	0.4984	0.19	76291.5941
	LCSW-444157	Tl (190.794 nm)	1.9803	0.34	1895.9112
	LCSW-444157	V (292.401 nm)	0.4940	0.18	18100.2713
	LCSW-444157	Y (360.074 nm)	0.98	0.29	506137.85
	LCSW-444157	Y_R (360.074 nm)	0.98	0.29	506078.46
	LCSW-444157	Zn (213.857 nm)	0.5050	0.13	29980.8948
9/9/2024 16:51:15	DLCSW-444157	Ag (328.068 nm)	0.0504	0.14	2715.1840
	DLCSW-444157	Al (237.312 nm)	1.9904	0.16	5052.0466
	DLCSW-444157	As (188.980 nm)	0.0390	2.08	61.1146
	DLCSW-444157	B (249.772 nm)	0.9261	0.10	38775.6174
	DLCSW-444157	Ba (230.424 nm)	1.9829	0.37	120370.4172
	DLCSW-444157	Be (313.107 nm)	0.0493	0.16	58639.8411
	DLCSW-444157	Ca (317.933 nm)	2.0420	0.17	64412.4034
	DLCSW-444157	Cd (214.439 nm)	0.0510	0.23	3068.4670
	DLCSW-444157	Co (230.786 nm)	0.5040	0.26	10153.8418
	DLCSW-444157	Cr (267.716 nm)	0.2014	0.21	11722.9597
	DLCSW-444157	Cu (327.395 nm)	0.2513	0.09	11103.9377
	DLCSW-444157	Fe (234.350 nm)	1.0038	0.16	22999.7940
	DLCSW-444157	K (766.491 nm)	19.9266	0.26	24828.3201
	DLCSW-444157	Mg (279.078 nm)	1.9678	0.26	7947.1007
	DLCSW-444157	Mn (257.610 nm)	0.4829	0.14	167682.5419
	DLCSW-444157	Mo (202.032 nm)	0.4949	0.84	5312.6490
	DLCSW-444157	Na (588.995 nm)	19.6288	0.24	348889.5329
	DLCSW-444157	Ni (230.299 nm)	0.4996	0.03	6352.4560
	DLCSW-444157	Pb (220.353 nm)	0.5172	0.26	2608.4748
	DLCSW-444157	Sb (217.582 nm)	0.5083	0.88	1172.9290
	DLCSW-444157	Se (196.026 nm)	1.0149	0.20	795.9444
	DLCSW-444157	Si (252.851 nm)	0.3233	0.56	2111.0482
	DLCSW-444157	Sn (189.925 nm)	4.9859	0.22	13035.8208
	DLCSW-444157	Sr (216.596 nm)	2.0234	0.27	38870.5329
	DLCSW-444157	Ti (336.122 nm)	0.5003	0.11	76585.8765
	DLCSW-444157	Tl (190.794 nm)	1.9918	0.08	1906.9657
	DLCSW-444157	V (292.401 nm)	0.4950	0.13	18135.9339
	DLCSW-444157	Y (360.074 nm)	0.98	0.32	505621.19
	DLCSW-444157	Y_R (360.074 nm)	0.98	0.32	505490.98
	DLCSW-444157	Zn (213.857 nm)	0.5062	0.08	30048.8971
9/9/2024 16:54:29	R2408385-019 10X	Ag (328.068 nm)	0.0001 u	> 100.00	-109.1231
	R2408385-019 10X	Al (237.312 nm)	-0.0092 u	7.91	-37.9018
	R2408385-019 10X	As (188.980 nm)	0.0011	72.80	0.3846
	R2408385-019 10X	B (249.772 nm)	0.0622	0.71	2643.5500
	R2408385-019 10X	Ba (230.424 nm)	0.0012	5.92	78.7662
	R2408385-019 10X	Be (313.107 nm)	0.0000 u	> 100.00	-18.9600
	R2408385-019 10X	Ca (317.933 nm)	40.1357	0.42	1245266.1454
	R2408385-019 10X	Cd (214.439 nm)	0.0065	0.31	401.1760
	R2408385-019 10X	Co (230.786 nm)	0.0021	3.17	47.3232
	R2408385-019 10X	Cr (267.716 nm)	0.0002	35.17	13.4353
	R2408385-019 10X	Cu (327.395 nm)	-0.0001 u	> 100.00	-144.1759
	R2408385-019 10X	Fe (234.350 nm)	0.0052	6.03	170.5970
	R2408385-019 10X	K (766.491 nm)	2.4078	2.00	3324.8792
	R2408385-019 10X	Mg (279.078 nm)	14.8282	0.51	59877.9144
	R2408385-019 10X	Mn (257.610 nm)	2.4568 o	0.42	853038.9205
	R2408385-019 10X	Mo (202.032 nm)	0.0045	20.87	55.1273

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408385-019 10X	Na (588.995 nm)	323.3674 o	0.90	5907009.4332
	R2408385-019 10X	Ni (230.299 nm)	0.0093	1.03	121.3320
	R2408385-019 10X	Pb (220.353 nm)	0.0005 u	> 100.00	3.7551
	R2408385-019 10X	Sb (217.582 nm)	0.0098	12.94	29.7581
	R2408385-019 10X	Se (196.026 nm)	0.0062	19.02	6.6865
	R2408385-019 10X	Si (252.851 nm)	0.4146	0.34	2693.3533
	R2408385-019 10X	Sn (189.925 nm)	0.0025	27.22	9.5382
	R2408385-019 10X	Sr (216.596 nm)	0.1810	0.61	3481.9556
	R2408385-019 10X	Ti (336.122 nm)	0.0024	28.82	430.2591
	R2408385-019 10X	Tl (190.794 nm)	0.0016	53.03	-0.1212
	R2408385-019 10X	V (292.401 nm)	0.0001	> 100.00	16.7633
	R2408385-019 10X	Y (360.074 nm)	0.91	0.07	471087.66
	R2408385-019 10X	Y_R (360.074 nm)	0.91	0.08	471044.45
	R2408385-019 10X	Zn (213.857 nm)	0.0042	0.55	261.9504
9/9/2024 16:57:43	R2408385-020 10X	Ag (328.068 nm)	0.0000 u	> 100.00	-113.6284
	R2408385-020 10X	Al (237.312 nm)	-0.0078 u	10.18	-34.2781
	R2408385-020 10X	As (188.980 nm)	0.0003 u	> 100.00	-0.8650
	R2408385-020 10X	B (249.772 nm)	0.0600	0.92	2553.3264
	R2408385-020 10X	Ba (230.424 nm)	0.0012	2.76	78.3950
	R2408385-020 10X	Be (313.107 nm)	0.0000 u	> 100.00	-12.6764
	R2408385-020 10X	Ca (317.933 nm)	39.4207	0.59	1223100.8224
	R2408385-020 10X	Cd (214.439 nm)	0.0064	0.14	392.4570
	R2408385-020 10X	Co (230.786 nm)	0.0026	4.92	57.0324
	R2408385-020 10X	Cr (267.716 nm)	0.0002	48.86	12.9670
	R2408385-020 10X	Cu (327.395 nm)	-0.0002 u	83.35	-147.5045
	R2408385-020 10X	Fe (234.350 nm)	0.0048	1.98	160.0768
	R2408385-020 10X	K (766.491 nm)	2.3705	1.21	3279.1040
	R2408385-020 10X	Mg (279.078 nm)	14.5689	0.65	58830.8659
	R2408385-020 10X	Mn (257.610 nm)	2.4194 o	0.62	840044.0375
	R2408385-020 10X	Mo (202.032 nm)	0.0014	17.25	21.5080
	R2408385-020 10X	Na (588.995 nm)	315.1818 o	1.15	5757220.2509
	R2408385-020 10X	Ni (230.299 nm)	0.0089	4.12	115.5120
	R2408385-020 10X	Pb (220.353 nm)	0.0008	43.11	5.4152
	R2408385-020 10X	Sb (217.582 nm)	0.0053	21.36	19.2820
	R2408385-020 10X	Se (196.026 nm)	-0.0001 u	> 100.00	1.7778
	R2408385-020 10X	Si (252.851 nm)	0.3951	0.63	2569.2729
	R2408385-020 10X	Sn (189.925 nm)	0.0018	20.10	7.6443
	R2408385-020 10X	Sr (216.596 nm)	0.1775	0.61	3415.1960
	R2408385-020 10X	Ti (336.122 nm)	0.0009	38.46	199.1082
	R2408385-020 10X	Tl (190.794 nm)	0.0016	49.39	-0.0884
	R2408385-020 10X	V (292.401 nm)	0.0000 u	> 100.00	13.4057
	R2408385-020 10X	Y (360.074 nm)	0.91	0.22	470103.78
	R2408385-020 10X	Y_R (360.074 nm)	0.91	0.22	470066.66
	R2408385-020 10X	Zn (213.857 nm)	0.0040	1.06	252.6888
9/9/2024 17:00:58	R2408385-020L 50X	Ag (328.068 nm)	-0.0001 u	> 100.00	-115.7989
	R2408385-020L 50X	Al (237.312 nm)	-0.0005 u	> 100.00	-15.6658
	R2408385-020L 50X	As (188.980 nm)	0.0001 u	> 100.00	-1.2049
	R2408385-020L 50X	B (249.772 nm)	0.0128	0.25	575.2044
	R2408385-020L 50X	Ba (230.424 nm)	0.0003	36.79	21.8522
	R2408385-020L 50X	Be (313.107 nm)	0.0000 u	74.10	-15.4274
	R2408385-020L 50X	Ca (317.933 nm)	8.0466	0.22	250548.0604
	R2408385-020L 50X	Cd (214.439 nm)	0.0013	5.89	87.6159
	R2408385-020L 50X	Co (230.786 nm)	0.0003	37.22	10.2888
	R2408385-020L 50X	Cr (267.716 nm)	0.0000 u	> 100.00	4.1117
	R2408385-020L 50X	Cu (327.395 nm)	-0.0002 u	22.92	-146.8890
	R2408385-020L 50X	Fe (234.350 nm)	0.0023	12.80	103.6355
	R2408385-020L 50X	K (766.491 nm)	0.4724	2.41	949.2886

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408385-020L 50X	Mg (279.078 nm)	2.9532	0.35	11926.3038
	R2408385-020L 50X	Mn (257.610 nm)	0.4957	0.19	172112.1376
	R2408385-020L 50X	Mo (202.032 nm)	0.0009	23.27	16.1428
	R2408385-020L 50X	Na (588.995 nm)	65.4791 o	0.20	1187905.4567
	R2408385-020L 50X	Ni (230.299 nm)	0.0019	13.69	27.0506
	R2408385-020L 50X	Pb (220.353 nm)	-0.0003 u	> 100.00	0.0042
	R2408385-020L 50X	Sb (217.582 nm)	0.0045	52.07	17.4221
	R2408385-020L 50X	Se (196.026 nm)	-0.0011 u	> 100.00	0.9822
	R2408385-020L 50X	Si (252.851 nm)	0.1087	1.32	743.3568
	R2408385-020L 50X	Sn (189.925 nm)	0.0008 u	> 100.00	5.2100
	R2408385-020L 50X	Sr (216.596 nm)	0.0356	0.57	690.5018
	R2408385-020L 50X	Ti (336.122 nm)	0.0006	49.62	161.7800
	R2408385-020L 50X	Tl (190.794 nm)	0.0017	28.36	-0.0515
	R2408385-020L 50X	V (292.401 nm)	0.0000 u	> 100.00	14.6595
	R2408385-020L 50X	Y (360.074 nm)	0.96	0.25	496609.76
	R2408385-020L 50X	Y_R (360.074 nm)	0.96	0.26	496632.96
	R2408385-020L 50X	Zn (213.857 nm)	0.0008	10.64	60.0712
9/9/2024 17:04:12	Continuing Calibration Verification	Ag (328.068 nm)	0.5008	0.12	27983.0708
	Continuing Calibration Verification	Al (237.312 nm)	9.6566	0.24	24566.0543
	Continuing Calibration Verification	As (188.980 nm)	0.9844	0.32	1577.0279
	Continuing Calibration Verification	B (249.772 nm)	2.2767	0.07	95260.9011
	Continuing Calibration Verification	Ba (230.424 nm)	9.6963	0.03	588573.4030
	Continuing Calibration Verification	Be (313.107 nm)	0.2427	0.02	288828.7034
	Continuing Calibration Verification	Ca (317.933 nm)	25.3441	0.11	786746.2588
	Continuing Calibration Verification	Cd (214.439 nm)	0.4934	0.04	29619.2568
	Continuing Calibration Verification	Co (230.786 nm)	2.4530	0.33	49401.3072
	Continuing Calibration Verification	Cr (267.716 nm)	0.5037	0.05	29317.7427
	Continuing Calibration Verification	Cu (327.395 nm)	1.1989	0.62	53501.8139
	Continuing Calibration Verification	Fe (234.350 nm)	4.8371	0.08	110639.7115
	Continuing Calibration Verification	K (766.491 nm)	25.1828	0.58	31280.0899
	Continuing Calibration Verification	Mg (279.078 nm)	25.1174	0.09	101425.9003
	Continuing Calibration Verification	Mn (257.610 nm)	0.7215	0.04	250513.2348
	Continuing Calibration Verification	Mo (202.032 nm)	2.5268	0.13	27096.7758
	Continuing Calibration Verification	Na (588.995 nm)	24.4574	0.43	437247.8570
	Continuing Calibration Verification	Ni (230.299 nm)	1.9870	0.11	25258.2932
	Continuing Calibration Verification	Pb (220.353 nm)	0.4947	0.12	2494.9045
	Continuing Calibration Verification	Sb (217.582 nm)	4.8766	0.33	11190.2736
	Continuing Calibration Verification	Se (196.026 nm)	0.4820	1.41	379.0077
	Continuing Calibration Verification	Si (252.851 nm)	9.6954	0.45	61853.0551
	Continuing Calibration Verification	Sn (189.925 nm)	4.9580	0.10	12962.7185
	Continuing Calibration Verification	Sr (216.596 nm)	2.4765	0.37	47573.8096
	Continuing Calibration Verification	Ti (336.122 nm)	2.5182	0.11	385194.2895
	Continuing Calibration Verification	Tl (190.794 nm)	0.9858	0.09	942.9481
	Continuing Calibration Verification	V (292.401 nm)	2.4936	0.09	91301.2027
	Continuing Calibration Verification	Y (360.074 nm)	0.96	0.49	493980.15
	Continuing Calibration Verification	Y_R (360.074 nm)	0.96	0.50	493905.83
	Continuing Calibration Verification	Zn (213.857 nm)	0.9781	0.06	58050.0799
9/9/2024 17:07:26	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u	> 100.00	-111.8265
	Continuing Calibration Blank	Al (237.312 nm)	0.0016 u	89.49	-10.4024
	Continuing Calibration Blank	As (188.980 nm)	-0.0005 u	> 100.00	-2.2230
	Continuing Calibration Blank	B (249.772 nm)	0.0022	9.80	131.9154
	Continuing Calibration Blank	Ba (230.424 nm)	0.0004	11.36	29.0343
	Continuing Calibration Blank	Be (313.107 nm)	0.0000 u	> 100.00	-14.8135
	Continuing Calibration Blank	Ca (317.933 nm)	0.0008	34.34	1139.9606
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	8.1788
	Continuing Calibration Blank	Co (230.786 nm)	-0.0003 u	4.71	-1.6719
	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u	> 100.00	2.5484

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Cu (327.395 nm)	-0.0001 u	> 100.00	-146.0662
	Continuing Calibration Blank	Fe (234.350 nm)	0.0043	21.52	147.9486
	Continuing Calibration Blank	K (766.491 nm)	0.0137 u	> 100.00	386.1928
	Continuing Calibration Blank	Mg (279.078 nm)	0.0006	50.65	3.3819
	Continuing Calibration Blank	Mn (257.610 nm)	0.0001	17.38	36.4601
	Continuing Calibration Blank	Mo (202.032 nm)	0.0062	16.48	73.2041
	Continuing Calibration Blank	Na (588.995 nm)	-0.0010 u	> 100.00	-10316.9873
	Continuing Calibration Blank	Ni (230.299 nm)	0.0002 u	> 100.00	5.3318
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0007 u	53.69	-2.0973
	Continuing Calibration Blank	Sb (217.582 nm)	0.0113	4.91	33.0480
	Continuing Calibration Blank	Se (196.026 nm)	0.0007 u	> 100.00	2.3998
	Continuing Calibration Blank	Si (252.851 nm)	0.0068	15.19	94.0346
	Continuing Calibration Blank	Sn (189.925 nm)	0.0024	24.92	9.2844
	Continuing Calibration Blank	Sr (216.596 nm)	0.0001	95.32	8.3942
	Continuing Calibration Blank	Ti (336.122 nm)	0.0069	23.84	1126.7233
	Continuing Calibration Blank	Tl (190.794 nm)	-0.0004 u	> 100.00	-2.0120
	Continuing Calibration Blank	V (292.401 nm)	0.0002	52.12	20.5976
	Continuing Calibration Blank	Y (360.074 nm)	1.00	0.10	513337.93
	Continuing Calibration Blank	Y_R (360.074 nm)	1.00	0.11	513236.62
	Continuing Calibration Blank	Zn (213.857 nm)	-0.0001 u	52.24	7.3865
9/9/2024 17:10:40	PBW-444307	Ag (328.068 nm)	0.0001 u	> 100.00	-108.5544
	PBW-444307	Al (237.312 nm)	0.0064	59.75	1.9336
	PBW-444307	As (188.980 nm)	0.0011 u	> 100.00	0.4610
	PBW-444307	B (249.772 nm)	0.0025	3.83	144.3571
	PBW-444307	Ba (230.424 nm)	0.0002	55.50	16.2805
	PBW-444307	Be (313.107 nm)	0.0000 u	> 100.00	-12.5116
	PBW-444307	Ca (317.933 nm)	0.0077	6.77	1350.9186
	PBW-444307	Cd (214.439 nm)	0.0000	90.52	11.3925
	PBW-444307	Co (230.786 nm)	0.0000 u	> 100.00	4.0539
	PBW-444307	Cr (267.716 nm)	0.0001	63.46	9.7455
	PBW-444307	Cu (327.395 nm)	-0.0001 u	48.40	-143.5654
	PBW-444307	Fe (234.350 nm)	0.0065	11.22	199.9368
	PBW-444307	K (766.491 nm)	0.0059 u	> 100.00	376.5807
	PBW-444307	Mg (279.078 nm)	0.0005 u	> 100.00	3.3411
	PBW-444307	Mn (257.610 nm)	0.0001	21.59	48.4432
	PBW-444307	Mo (202.032 nm)	0.0015	29.15	22.7955
	PBW-444307	Na (588.995 nm)	-0.0049 u	41.46	-10387.6903
	PBW-444307	Ni (230.299 nm)	0.0000 u	> 100.00	2.6493
	PBW-444307	Pb (220.353 nm)	0.0001 u	> 100.00	1.7559
	PBW-444307	Sb (217.582 nm)	0.0197	5.43	52.3603
	PBW-444307	Se (196.026 nm)	-0.0001 u	> 100.00	1.7869
	PBW-444307	Si (252.851 nm)	0.0161	13.20	153.1003
	PBW-444307	Sn (189.925 nm)	0.0015	30.60	6.8444
	PBW-444307	Sr (216.596 nm)	-0.0001 u	37.38	4.3107
	PBW-444307	Ti (336.122 nm)	0.0028	32.36	492.6468
	PBW-444307	Tl (190.794 nm)	0.0010 u	> 100.00	-0.6946
	PBW-444307	V (292.401 nm)	0.0001	21.85	16.6335
	PBW-444307	Y (360.074 nm)	1.00	0.27	518218.18
	PBW-444307	Y_R (360.074 nm)	1.00	0.27	518153.78
	PBW-444307	Zn (213.857 nm)	0.0129 0.020U	0.18	777.8573
9/9/2024 17:13:54	LCSW-444307	Ag (328.068 nm)	0.0498	0.66	2679.0199
	LCSW-444307	Al (237.312 nm)	1.9607	0.33	4976.4931
	LCSW-444307	As (188.980 nm)	0.0375	3.25	58.7253
	LCSW-444307	B (249.772 nm)	0.9144	0.04	38287.7962
	LCSW-444307	Ba (230.424 nm)	1.9608	0.59	119029.1082
	LCSW-444307	Be (313.107 nm)	0.0487	0.02	57976.6485
	LCSW-444307	Ca (317.933 nm)	2.0203	0.11	63739.2692

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	LCSW-444307	Cd (214.439 nm)	0.0506	0.28	3044.7245
	LCSW-444307	Co (230.786 nm)	0.4989	0.06	10051.5518
	LCSW-444307	Cr (267.716 nm)	0.1993	0.22	11603.5280
	LCSW-444307	Cu (327.395 nm)	0.2480	0.17	10956.2646
	LCSW-444307	Fe (234.350 nm)	0.9914	0.13	22716.4555
	LCSW-444307	K (766.491 nm)	19.6125	0.26	24442.8107
	LCSW-444307	Mg (279.078 nm)	1.9485	0.09	7869.0526
	LCSW-444307	Mn (257.610 nm)	0.4775	0.03	165804.2805
	LCSW-444307	Mo (202.032 nm)	0.4872	0.98	5229.9452
	LCSW-444307	Na (588.995 nm)	19.3406	0.31	343616.0022
	LCSW-444307	Ni (230.299 nm)	0.4933	0.29	6272.4025
	LCSW-444307	Pb (220.353 nm)	0.5111	0.15	2578.0294
	LCSW-444307	Sb (217.582 nm)	0.5046	0.08	1164.4722
	LCSW-444307	Se (196.026 nm)	0.9793	0.61	768.0794
	LCSW-444307	Si (252.851 nm)	0.3199	0.11	2089.8349
	LCSW-444307	Sn (189.925 nm)	4.8630	0.23	12714.5097
	LCSW-444307	Sr (216.596 nm)	1.9755	0.19	37951.0902
	LCSW-444307	Ti (336.122 nm)	0.4955	0.19	75844.9753
	LCSW-444307	Tl (190.794 nm)	1.9670	0.38	1883.1777
	LCSW-444307	V (292.401 nm)	0.4892	0.07	17921.8606
	LCSW-444307	Y (360.074 nm)	0.98	0.24	505722.76
	LCSW-444307	Y_R (360.074 nm)	0.98	0.24	505740.96
	LCSW-444307	Zn (213.857 nm)	0.5358	0.06	31804.8320
9/9/2024 17:17:08	R2408422-001	Ag (328.068 nm)	0.0000 u	> 100.00	-110.2589
	R2408422-001	Al (237.312 nm)	0.0059	39.17	0.6697
	R2408422-001	As (188.980 nm)	0.0043	16.51	5.5301
	R2408422-001	B (249.772 nm)	0.1556	0.14	6551.2344
	R2408422-001	Ba (230.424 nm)	0.0838	0.30	5092.9713
	R2408422-001	Be (313.107 nm)	0.0000 u	31.85	-16.0608
	R2408422-001	Ca (317.933 nm)	502.0055 o	0.10	15562604.6032
	R2408422-001	Cd (214.439 nm)	0.0001	80.52	13.6183
	R2408422-001	Co (230.786 nm)	-0.0001 u	53.73	2.8367
	R2408422-001	Cr (267.716 nm)	0.0051	2.92	298.5411
	R2408422-001	Cu (327.395 nm)	0.0000 u	> 100.00	-141.1670
	R2408422-001	Fe (234.350 nm)	0.3509	0.10	8072.7326
	R2408422-001	K (766.491 nm)	44.5310	0.13	55029.0639
	R2408422-001	Mg (279.078 nm)	6.9021	0.05	27871.9085
	R2408422-001	Mn (257.610 nm)	0.1325	0.03	46016.5594
	R2408422-001	Mo (202.032 nm)	0.0080	16.07	92.8558
	R2408422-001	Na (588.995 nm)	668.8233 o	0.68	12228515.6568
	R2408422-001	Ni (230.299 nm)	0.0320	1.72	410.2581
	R2408422-001	Pb (220.353 nm)	0.0000 u	> 100.00	1.3748
	R2408422-001	Sb (217.582 nm)	0.0103	31.51	30.8360
	R2408422-001	Se (196.026 nm)	0.0031 u	> 100.00	4.3024
	R2408422-001	Si (252.851 nm)	9.8106	0.13	62587.0941
	R2408422-001	Sn (189.925 nm)	0.0035	24.38	12.0746
	R2408422-001	Sr (216.596 nm)	3.7686	0.13	72392.2109
	R2408422-001	Ti (336.122 nm)	0.0018	36.05	348.9682
	R2408422-001	Tl (190.794 nm)	0.0012	> 100.00	-0.4882
	R2408422-001	V (292.401 nm)	0.0011	15.03	53.4030
	R2408422-001	Y (360.074 nm)	0.83	0.44	429018.56
	R2408422-001	Y_R (360.074 nm)	0.83	0.44	429117.47
	R2408422-001	Zn (213.857 nm)	0.0186	0.48	1118.8516
9/9/2024 17:20:22	R2408422-002	Ag (328.068 nm)	0.0000 u	> 100.00	-109.7487
	R2408422-002	Al (237.312 nm)	0.0124	10.56	17.1415
	R2408422-002	As (188.980 nm)	0.0050	52.57	6.6491
	R2408422-002	B (249.772 nm)	0.0790	0.15	3344.7717

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408422-002	Ba (230.424 nm)	0.0523	0.29	3178.5179
	R2408422-002	Be (313.107 nm)	0.0000 u	67.51	-16.2932
	R2408422-002	Ca (317.933 nm)	503.1486 o	0.10	15598036.3157
	R2408422-002	Cd (214.439 nm)	0.0001	83.07	14.8027
	R2408422-002	Co (230.786 nm)	0.0001 u	> 100.00	7.0234
	R2408422-002	Cr (267.716 nm)	0.1102	0.10	6417.2921
	R2408422-002	Cu (327.395 nm)	0.0000 u	> 100.00	-138.0021
	R2408422-002	Fe (234.350 nm)	0.0409	1.45	986.8424
	R2408422-002	K (766.491 nm)	45.5012	0.42	56219.8901
	R2408422-002	Mg (279.078 nm)	0.0221	3.24	90.3783
	R2408422-002	Mn (257.610 nm)	0.0002	7.65	85.0131
	R2408422-002	Mo (202.032 nm)	0.0102	1.49	115.7414
	R2408422-002	Na (588.995 nm)	531.2957 o	0.52	9711894.0825
	R2408422-002	Ni (230.299 nm)	0.0048	8.41	63.7113
	R2408422-002	Pb (220.353 nm)	0.0002 u	> 100.00	2.3635
	R2408422-002	Sb (217.582 nm)	0.0046	61.24	17.8277
	R2408422-002	Se (196.026 nm)	-0.0007 u	> 100.00	1.3313
	R2408422-002	Si (252.851 nm)	1.1888	0.02	7628.0591
	R2408422-002	Sn (189.925 nm)	0.0025	18.69	9.6548
	R2408422-002	Sr (216.596 nm)	7.7366 o	0.26	148609.7608
	R2408422-002	Ti (336.122 nm)	0.0004 u	97.70	128.2367
	R2408422-002	Tl (190.794 nm)	0.0001 u	> 100.00	-1.5423
	R2408422-002	V (292.401 nm)	0.0025	5.27	107.1587
	R2408422-002	Y (360.074 nm)	0.84	0.52	435685.38
	R2408422-002	Y_R (360.074 nm)	0.84	0.51	435737.87
	R2408422-002	Zn (213.857 nm)	0.0334	0.35	1997.1118
9/9/2024 17:23:36	R2408422-003	Ag (328.068 nm)	-0.0002 u	47.73	-125.3836
	R2408422-003	Al (237.312 nm)	0.1599	0.88	392.6776
	R2408422-003	As (188.980 nm)	0.0119	20.26	17.6809
	R2408422-003	B (249.772 nm)	0.6237	0.08	26128.1366
	R2408422-003	Ba (230.424 nm)	0.0048	1.65	297.5875
	R2408422-003	Be (313.107 nm)	0.0000 u	71.86	-17.6716
	R2408422-003	Ca (317.933 nm)	13.0433	0.04	405438.4705
	R2408422-003	Cd (214.439 nm)	0.0001	79.51	12.9846
	R2408422-003	Co (230.786 nm)	0.0001 u	> 100.00	6.7352
	R2408422-003	Cr (267.716 nm)	0.1111	0.01	6466.6144
	R2408422-003	Cu (327.395 nm)	0.0009	12.80	-98.8131
	R2408422-003	Fe (234.350 nm)	0.2424	0.25	5592.2378
	R2408422-003	K (766.491 nm)	14.1330	0.34	17717.0015
	R2408422-003	Mg (279.078 nm)	1.4742	0.10	5954.0797
	R2408422-003	Mn (257.610 nm)	0.0124	0.26	4308.6745
	R2408422-003	Mo (202.032 nm)	0.0226	1.60	249.1074
	R2408422-003	Na (588.995 nm)	519.6526 o	0.42	9498837.4009
	R2408422-003	Ni (230.299 nm)	0.0111	4.48	144.7118
	R2408422-003	Pb (220.353 nm)	-0.0003 u	51.94	-0.2444
	R2408422-003	Sb (217.582 nm)	0.0084	11.96	26.3740
	R2408422-003	Se (196.026 nm)	-0.0012 u	> 100.00	0.8803
	R2408422-003	Si (252.851 nm)	3.0662	0.12	19595.4885
	R2408422-003	Sn (189.925 nm)	0.0016	73.64	7.0822
	R2408422-003	Sr (216.596 nm)	0.1142	0.19	2199.0214
	R2408422-003	Ti (336.122 nm)	0.0028	12.39	497.2992
	R2408422-003	Tl (190.794 nm)	0.0004 u	> 100.00	-1.2987
	R2408422-003	V (292.401 nm)	0.0172	0.40	645.0912
	R2408422-003	Y (360.074 nm)	0.89	0.51	458723.38
	R2408422-003	Y_R (360.074 nm)	0.89	0.52	458814.69
	R2408422-003	Zn (213.857 nm)	0.0281	0.21	1684.1718
9/9/2024 17:26:50	R2408422-004	Ag (328.068 nm)	0.0001 u	> 100.00	-109.3822

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408422-004	Al (237.312 nm)	0.0036	41.27	-5.3925
	R2408422-004	As (188.980 nm)	0.0096	9.53	14.0107
	R2408422-004	B (249.772 nm)	1.7680	0.11	73985.3604
	R2408422-004	Ba (230.424 nm)	0.0749	0.03	4552.8250
	R2408422-004	Be (313.107 nm)	0.0000 u	10.33	-18.4448
	R2408422-004	Ca (317.933 nm)	218.8729 o	0.14	6785876.8522
	R2408422-004	Cd (214.439 nm)	0.0000 u	> 100.00	11.7946
	R2408422-004	Co (230.786 nm)	0.0001 u	> 100.00	6.8818
	R2408422-004	Cr (267.716 nm)	0.0181	0.30	1059.1881
	R2408422-004	Cu (327.395 nm)	-0.0001 u	> 100.00	-142.2038
	R2408422-004	Fe (234.350 nm)	1.1446	0.12	26220.1372
	R2408422-004	K (766.491 nm)	54.6409	0.23	67438.4808
	R2408422-004	Mg (279.078 nm)	25.4302	0.13	102688.6804
	R2408422-004	Mn (257.610 nm)	0.1942	0.04	67438.7711
	R2408422-004	Mo (202.032 nm)	0.0049	6.49	58.9535
	R2408422-004	Na (588.995 nm)	556.5880 o	0.56	10174718.6667
	R2408422-004	Ni (230.299 nm)	0.0255	2.01	326.8167
	R2408422-004	Pb (220.353 nm)	-0.0010 u	> 100.00	-3.8023
	R2408422-004	Sb (217.582 nm)	0.0052	45.95	19.0618
	R2408422-004	Se (196.026 nm)	-0.0007 u	> 100.00	1.3397
	R2408422-004	Si (252.851 nm)	7.3938	0.12	47181.6770
	R2408422-004	Sn (189.925 nm)	0.0018	29.52	7.7572
	R2408422-004	Sr (216.596 nm)	2.0903	0.23	40155.6191
	R2408422-004	Ti (336.122 nm)	0.0005	33.62	137.6833
	R2408422-004	Tl (190.794 nm)	0.0013 u	> 100.00	-0.4064
	R2408422-004	V (292.401 nm)	0.0014	15.29	65.7906
	R2408422-004	Y (360.074 nm)	0.87	0.27	447359.39
	R2408422-004	Y_R (360.074 nm)	0.87	0.27	447482.72
	R2408422-004	Zn (213.857 nm)	0.0317	0.45	1893.1563
9/9/2024 17:30:04	R2408422-004S	Ag (328.068 nm)	0.0518	0.49	2795.0155
	R2408422-004S	Al (237.312 nm)	2.0385	0.25	5174.5130
	R2408422-004S	As (188.980 nm)	0.0509	4.23	80.2201
	R2408422-004S	B (249.772 nm)	2.7572	0.06	115360.9849
	R2408422-004S	Ba (230.424 nm)	1.9817	0.17	120296.5751
	R2408422-004S	Be (313.107 nm)	0.0492	0.02	58517.1537
	R2408422-004S	Ca (317.933 nm)	221.0053 o	0.14	6851979.4938
	R2408422-004S	Cd (214.439 nm)	0.0484	0.05	2913.2542
	R2408422-004S	Co (230.786 nm)	0.4861	0.21	9794.0476
	R2408422-004S	Cr (267.716 nm)	0.2138	0.18	12447.9777
	R2408422-004S	Cu (327.395 nm)	0.2606	0.21	11521.1344
	R2408422-004S	Fe (234.350 nm)	2.1138	0.04	48378.3870
	R2408422-004S	K (766.491 nm)	79.0372 o	0.19	97383.7844
	R2408422-004S	Mg (279.078 nm)	27.3824	0.09	110571.8765
	R2408422-004S	Mn (257.610 nm)	0.6666	0.07	231460.7653
	R2408422-004S	Mo (202.032 nm)	0.4994	0.99	5360.8035
	R2408422-004S	Na (588.995 nm)	569.9462 o	0.50	10419160.2201
	R2408422-004S	Ni (230.299 nm)	0.5005	0.21	6364.2676
	R2408422-004S	Pb (220.353 nm)	0.4834	0.15	2438.0842
	R2408422-004S	Sb (217.582 nm)	0.5299	0.48	1222.3302
	R2408422-004S	Se (196.026 nm)	1.0521	0.15	825.0870
	R2408422-004S	Si (252.851 nm)	7.8734	0.07	50239.0065
	R2408422-004S	Sn (189.925 nm)	4.9009	0.08	12813.5073
	R2408422-004S	Sr (216.596 nm)	3.9867	0.06	76580.7818
	R2408422-004S	Ti (336.122 nm)	0.4973	0.23	76129.6301
	R2408422-004S	Tl (190.794 nm)	1.8134	0.39	1736.0247
	R2408422-004S	V (292.401 nm)	0.4993	0.11	18293.5926
	R2408422-004S	Y (360.074 nm)	0.86	0.37	446070.84

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408422-004S	Y_R (360.074 nm)	0.87	0.37	446191.49
	R2408422-004S	Zn (213.857 nm)	0.5513	0.10	32725.9754
9/9/2024 17:33:18	R2408422-004SD	Ag (328.068 nm)	0.0517	0.16	2790.6462
	R2408422-004SD	Al (237.312 nm)	2.1314	0.15	5411.0251
	R2408422-004SD	As (188.980 nm)	0.0531	2.69	83.7852
	R2408422-004SD	B (249.772 nm)	2.7601	0.11	115479.5318
	R2408422-004SD	Ba (230.424 nm)	1.9806	0.38	120228.2156
	R2408422-004SD	Be (313.107 nm)	0.0492	0.06	58544.8392
	R2408422-004SD	Ca (317.933 nm)	221.3971 o	0.19	6864122.3694
	R2408422-004SD	Cd (214.439 nm)	0.0485	0.05	2919.5117
	R2408422-004SD	Co (230.786 nm)	0.4864	0.17	9800.5705
	R2408422-004SD	Cr (267.716 nm)	0.2142	0.20	12470.8756
	R2408422-004SD	Cu (327.395 nm)	0.2603	0.21	11508.5284
	R2408422-004SD	Fe (234.350 nm)	2.1176	0.16	48465.8721
	R2408422-004SD	K (766.491 nm)	79.0381 o	0.32	97384.8387
	R2408422-004SD	Mg (279.078 nm)	27.4384	0.15	110798.0046
	R2408422-004SD	Mn (257.610 nm)	0.6671	0.11	231637.7019
	R2408422-004SD	Mo (202.032 nm)	0.5042	0.65	5411.6875
	R2408422-004SD	Na (588.995 nm)	569.1166 o	0.31	10403979.7341
	R2408422-004SD	Ni (230.299 nm)	0.5004	0.07	6362.6281
	R2408422-004SD	Pb (220.353 nm)	0.4840	0.34	2441.0397
	R2408422-004SD	Sb (217.582 nm)	0.5297	0.36	1221.8239
	R2408422-004SD	Se (196.026 nm)	1.0649	0.06	835.1122
	R2408422-004SD	Si (252.851 nm)	7.8781	0.06	50268.9139
	R2408422-004SD	Sn (189.925 nm)	4.9375	0.06	12909.2091
	R2408422-004SD	Sr (216.596 nm)	3.9970	0.39	76779.5479
	R2408422-004SD	Ti (336.122 nm)	0.5006	0.14	76626.4035
	R2408422-004SD	Tl (190.794 nm)	1.8122	0.46	1734.8598
	R2408422-004SD	V (292.401 nm)	0.4989	0.08	18279.6619
	R2408422-004SD	Y (360.074 nm)	0.86	0.33	445192.63
	R2408422-004SD	Y_R (360.074 nm)	0.86	0.34	445337.58
	R2408422-004SD	Zn (213.857 nm)	0.5854	0.11	34748.0759
9/9/2024 17:36:32	R2408422-004A	Ag (328.068 nm)	0.0507	0.51	2732.3961
	R2408422-004A	Al (237.312 nm)	1.9974	0.37	5069.8184
	R2408422-004A	As (188.980 nm)	0.0494	2.53	77.8127
	R2408422-004A	B (249.772 nm)	2.6743	0.06	111892.9577
	R2408422-004A	Ba (230.424 nm)	1.9417	0.13	117868.5288
	R2408422-004A	Be (313.107 nm)	0.0483	0.03	57413.7874
	R2408422-004A	Ca (317.933 nm)	213.1797 o	0.19	6609396.0090
	R2408422-004A	Cd (214.439 nm)	0.0477	0.05	2872.4211
	R2408422-004A	Co (230.786 nm)	0.4775	0.04	9620.5410
	R2408422-004A	Cr (267.716 nm)	0.2102	0.23	12233.3138
	R2408422-004A	Cu (327.395 nm)	0.2552	0.10	11279.9711
	R2408422-004A	Fe (234.350 nm)	2.0542	0.10	47015.0801
	R2408422-004A	K (766.491 nm)	76.1639 o	0.33	93856.9241
	R2408422-004A	Mg (279.078 nm)	26.4173	0.08	106674.9521
	R2408422-004A	Mn (257.610 nm)	0.6506	0.06	225903.9229
	R2408422-004A	Mo (202.032 nm)	0.4831	0.77	5185.9018
	R2408422-004A	Na (588.995 nm)	548.5456 o	0.32	10027550.6146
	R2408422-004A	Ni (230.299 nm)	0.4911	0.11	6245.5531
	R2408422-004A	Pb (220.353 nm)	0.4773	0.33	2407.2018
	R2408422-004A	Sb (217.582 nm)	0.5068	0.33	1169.3243
	R2408422-004A	Se (196.026 nm)	1.0457	0.49	820.0893
	R2408422-004A	Si (252.851 nm)	7.5616	0.03	48250.9076
	R2408422-004A	Sn (189.925 nm)	4.8509	0.09	12682.7557
	R2408422-004A	Sr (216.596 nm)	3.8808	0.13	74546.9465
	R2408422-004A	Ti (336.122 nm)	0.4839	0.10	74079.1127

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408422-004A	Tl (190.794 nm)	1.7770	0.39	1701.1009
	R2408422-004A	V (292.401 nm)	0.4897	0.04	17939.6607
	R2408422-004A	Y (360.074 nm)	0.87	0.34	448270.53
	R2408422-004A	Y_R (360.074 nm)	0.87	0.34	448526.08
	R2408422-004A	Zn (213.857 nm)	0.5480	0.04	32528.5100
9/9/2024 17:39:46	R2408422-004L 5X	Ag (328.068 nm)	-0.0001 u	> 100.00	-116.0690
	R2408422-004L 5X	Al (237.312 nm)	0.0030	13.68	-6.8149
	R2408422-004L 5X	As (188.980 nm)	0.0013	50.76	0.7862
	R2408422-004L 5X	B (249.772 nm)	0.3452	1.43	14478.2408
	R2408422-004L 5X	Ba (230.424 nm)	0.0150	1.51	915.8115
	R2408422-004L 5X	Be (313.107 nm)	0.0000 u	> 100.00	-13.5259
	R2408422-004L 5X	Ca (317.933 nm)	45.7941	1.15	1420668.4428
	R2408422-004L 5X	Cd (214.439 nm)	0.0000 u	> 100.00	8.5372
	R2408422-004L 5X	Co (230.786 nm)	0.0000 u	> 100.00	5.9255
	R2408422-004L 5X	Cr (267.716 nm)	0.0037	1.87	220.4458
	R2408422-004L 5X	Cu (327.395 nm)	-0.0002 u	12.97	-150.9442
	R2408422-004L 5X	Fe (234.350 nm)	0.2319	0.94	5351.6624
	R2408422-004L 5X	K (766.491 nm)	9.2872	1.88	11769.0500
	R2408422-004L 5X	Mg (279.078 nm)	5.1669	1.24	20864.9842
	R2408422-004L 5X	Mn (257.610 nm)	0.0388	1.21	13478.4647
	R2408422-004L 5X	Mo (202.032 nm)	0.0048	13.44	58.3221
	R2408422-004L 5X	Na (588.995 nm)	119.1656 o	1.33	2170315.8469
	R2408422-004L 5X	Ni (230.299 nm)	0.0051	5.47	67.4610
	R2408422-004L 5X	Pb (220.353 nm)	0.0003 u	> 100.00	2.9768
	R2408422-004L 5X	Sb (217.582 nm)	0.0066	31.16	22.4014
	R2408422-004L 5X	Se (196.026 nm)	0.0016 u	> 100.00	3.1153
	R2408422-004L 5X	Si (252.851 nm)	1.4525	1.10	9309.5651
	R2408422-004L 5X	Sn (189.925 nm)	0.0038	35.85	13.0431
	R2408422-004L 5X	Sr (216.596 nm)	0.4195	1.09	8063.7818
	R2408422-004L 5X	Ti (336.122 nm)	0.0020	34.60	374.1696
	R2408422-004L 5X	Tl (190.794 nm)	0.0022	28.58	0.4551
	R2408422-004L 5X	V (292.401 nm)	0.0005	29.50	32.3056
	R2408422-004L 5X	Y (360.074 nm)	0.95	0.20	490411.85
	R2408422-004L 5X	Y_R (360.074 nm)	0.95	0.20	490624.70
	R2408422-004L 5X	Zn (213.857 nm)	0.0063	0.47	385.6766
9/9/2024 17:43:00	Continuing Calibration Verification	Ag (328.068 nm)	0.5014	0.09	28018.3845
	Continuing Calibration Verification	Al (237.312 nm)	9.7016	0.14	24680.6205
	Continuing Calibration Verification	As (188.980 nm)	0.9882	0.10	1583.1472
	Continuing Calibration Verification	B (249.772 nm)	2.2935	0.04	95965.7937
	Continuing Calibration Verification	Ba (230.424 nm)	9.7166	0.15	589807.0225
	Continuing Calibration Verification	Be (313.107 nm)	0.2437	0.11	290005.3083
	Continuing Calibration Verification	Ca (317.933 nm)	25.5039	0.17	791699.5158
	Continuing Calibration Verification	Cd (214.439 nm)	0.4970	0.19	29833.4277
	Continuing Calibration Verification	Co (230.786 nm)	2.4680	0.03	49702.2764
	Continuing Calibration Verification	Cr (267.716 nm)	0.5069	0.11	29498.3540
	Continuing Calibration Verification	Cu (327.395 nm)	1.2026	0.23	53667.5860
	Continuing Calibration Verification	Fe (234.350 nm)	4.8700	0.17	111392.5812
	Continuing Calibration Verification	K (766.491 nm)	25.3496	0.53	31484.8315
	Continuing Calibration Verification	Mg (279.078 nm)	25.2297	0.11	101879.1224
	Continuing Calibration Verification	Mn (257.610 nm)	0.7243	0.12	251502.3823
	Continuing Calibration Verification	Mo (202.032 nm)	2.5363	0.26	27198.2233
	Continuing Calibration Verification	Na (588.995 nm)	24.8287	0.56	444041.7104
	Continuing Calibration Verification	Ni (230.299 nm)	1.9921	0.15	25322.8319
	Continuing Calibration Verification	Pb (220.353 nm)	0.4971	0.32	2507.2144
	Continuing Calibration Verification	Sb (217.582 nm)	4.9167	0.29	11282.3786
	Continuing Calibration Verification	Se (196.026 nm)	0.4867	1.01	382.6733
	Continuing Calibration Verification	Si (252.851 nm)	9.7265	0.52	62051.1369

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	Sn (189.925 nm)	5.0007	0.12	13074.2714
	Continuing Calibration Verification	Sr (216.596 nm)	2.4957	0.12	47943.4594
	Continuing Calibration Verification	Ti (336.122 nm)	2.5302	0.07	387022.1622
	Continuing Calibration Verification	Tl (190.794 nm)	0.9861	0.32	943.2880
	Continuing Calibration Verification	V (292.401 nm)	2.5039	0.08	91679.7738
	Continuing Calibration Verification	Y (360.074 nm)	0.96	0.43	492766.50
	Continuing Calibration Verification	Y_R (360.074 nm)	0.96	0.43	492888.99
	Continuing Calibration Verification	Zn (213.857 nm)	0.9802	0.18	58177.1959
9/9/2024 17:46:13	Continuing Calibration Blank	Ag (328.068 nm)	-0.0001 u	38.90	-116.1914
	Continuing Calibration Blank	Al (237.312 nm)	0.0022	64.50	-8.7531
	Continuing Calibration Blank	As (188.980 nm)	0.0009	> 100.00	0.0179
	Continuing Calibration Blank	B (249.772 nm)	0.0026	5.90	150.5334
	Continuing Calibration Blank	Ba (230.424 nm)	0.0005	23.53	35.1565
	Continuing Calibration Blank	Be (313.107 nm)	0.0000 u	> 100.00	-14.7064
	Continuing Calibration Blank	Ca (317.933 nm)	0.0024	10.08	1187.7419
	Continuing Calibration Blank	Cd (214.439 nm)	0.0001	84.59	14.5937
	Continuing Calibration Blank	Co (230.786 nm)	0.0001	> 100.00	6.6627
	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u	> 100.00	6.6476
	Continuing Calibration Blank	Cu (327.395 nm)	0.0000 u	> 100.00	-138.9320
	Continuing Calibration Blank	Fe (234.350 nm)	0.0044	19.75	151.0101
	Continuing Calibration Blank	K (766.491 nm)	0.0848	25.85	473.4304
	Continuing Calibration Blank	Mg (279.078 nm)	-0.0006 u	92.23	-1.4050
	Continuing Calibration Blank	Mn (257.610 nm)	0.0001	20.31	35.0443
	Continuing Calibration Blank	Mo (202.032 nm)	0.0063	16.47	73.7330
	Continuing Calibration Blank	Na (588.995 nm)	0.3859	3.95	-3236.4748
	Continuing Calibration Blank	Ni (230.299 nm)	0.0000 u	> 100.00	2.9895
	Continuing Calibration Blank	Pb (220.353 nm)	0.0001 u	> 100.00	2.0533
	Continuing Calibration Blank	Sb (217.582 nm)	0.0119	3.33	34.4215
	Continuing Calibration Blank	Se (196.026 nm)	-0.0004 u	> 100.00	1.5623
	Continuing Calibration Blank	Si (252.851 nm)	0.0082	22.87	102.5789
	Continuing Calibration Blank	Sn (189.925 nm)	0.0018	22.88	7.7949
	Continuing Calibration Blank	Sr (216.596 nm)	0.0000 u	> 100.00	5.0791
	Continuing Calibration Blank	Ti (336.122 nm)	0.0066	24.81	1085.0290
	Continuing Calibration Blank	Tl (190.794 nm)	-0.0003 u	> 100.00	-1.9081
	Continuing Calibration Blank	V (292.401 nm)	-0.0001 u	> 100.00	12.1250
	Continuing Calibration Blank	Y (360.074 nm)	1.01	0.15	520672.01
	Continuing Calibration Blank	Y_R (360.074 nm)	1.01	0.15	520788.52
	Continuing Calibration Blank	Zn (213.857 nm)	-0.0001 u	89.71	10.8156
9/9/2024 17:49:28	R2408422-005	Ag (328.068 nm)	-0.0001 u	13.27	-119.2509
	R2408422-005	Al (237.312 nm)	0.1485	0.83	363.5334
	R2408422-005	As (188.980 nm)	0.0129	12.54	19.3967
	R2408422-005	B (249.772 nm)	0.6164	0.09	25821.3950
	R2408422-005	Ba (230.424 nm)	0.0049	0.39	301.5591
	R2408422-005	Be (313.107 nm)	0.0000	72.14	-10.4181
	R2408422-005	Ca (317.933 nm)	12.9932	0.23	403886.8661
	R2408422-005	Cd (214.439 nm)	0.0001	73.44	14.9168
	R2408422-005	Co (230.786 nm)	0.0002	42.63	9.4459
	R2408422-005	Cr (267.716 nm)	0.1049	0.26	6110.5650
	R2408422-005	Cu (327.395 nm)	0.0007	9.71	-107.8652
	R2408422-005	Fe (234.350 nm)	0.2160	0.37	4989.5356
	R2408422-005	K (766.491 nm)	13.7553	0.29	17253.4017
	R2408422-005	Mg (279.078 nm)	1.4900	0.29	6017.8099
	R2408422-005	Mn (257.610 nm)	0.0113	0.42	3924.2900
	R2408422-005	Mo (202.032 nm)	0.0228	3.26	250.7416
	R2408422-005	Na (588.995 nm)	513.4217 o	0.46	9384817.1637
	R2408422-005	Ni (230.299 nm)	0.0112	1.09	145.7252
	R2408422-005	Pb (220.353 nm)	0.0003 u	> 100.00	2.8470

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408422-005	Sb (217.582 nm)	0.0134	8.34	37.8708
	R2408422-005	Se (196.026 nm)	0.0014	> 100.00	2.9663
	R2408422-005	Si (252.851 nm)	3.0216	0.07	19311.1741
	R2408422-005	Sn (189.925 nm)	0.0023	23.53	9.0264
	R2408422-005	Sr (216.596 nm)	0.1138	0.15	2191.7828
	R2408422-005	Ti (336.122 nm)	0.0047	14.82	789.6285
	R2408422-005	Tl (190.794 nm)	0.0001 u	> 100.00	-1.5324
	R2408422-005	V (292.401 nm)	0.0167	0.15	624.2368
	R2408422-005	Y (360.074 nm)	0.89	0.32	461425.93
	R2408422-005	Y_R (360.074 nm)	0.89	0.31	461604.45
	R2408422-005	Zn (213.857 nm)	0.0254	0.29	1522.3734
9/9/2024 17:52:42	R2408422-006	Ag (328.068 nm)	-0.0031 u	2.31	-286.7589
	R2408422-006	Al (237.312 nm)	-0.0087 u	28.39	-36.5844
	R2408422-006	As (188.980 nm)	0.0135	17.06	20.3134
	R2408422-006	B (249.772 nm)	0.0322	0.77	1387.5816
	R2408422-006	Ba (230.424 nm)	0.2476	0.16	15038.1904
	R2408422-006	Be (313.107 nm)	0.0000	2.18	14.1052
	R2408422-006	Ca (317.933 nm)	1079.3754 o	0.41	33460287.7532
	R2408422-006	Cd (214.439 nm)	0.0000	96.42	10.9371
	R2408422-006	Co (230.786 nm)	0.0023	3.34	52.0376
	R2408422-006	Cr (267.716 nm)	129.4814 o	0.38	7534683.3808
	R2408422-006	Cu (327.395 nm)	0.0043	3.74	51.1910
	R2408422-006	Fe (234.350 nm)	0.0826	0.83	1939.5432
	R2408422-006	K (766.491 nm)	144.5110 o	0.17	177749.6271
	R2408422-006	Mg (279.078 nm)	0.0206	3.88	84.2497
	R2408422-006	Mn (257.610 nm)	0.0003	4.32	120.2464
	R2408422-006	Mo (202.032 nm)	0.0389	0.45	423.5963
	R2408422-006	Na (588.995 nm)	1609.4883 o	0.73	29441767.8785
	R2408422-006	Ni (230.299 nm)	0.0460	1.11	587.1514
	R2408422-006	Pb (220.353 nm)	0.0002 u	> 100.00	2.2567
	R2408422-006	Sb (217.582 nm)	0.0083	24.54	26.3059
	R2408422-006	Se (196.026 nm)	0.0048	> 100.00	5.6316
	R2408422-006	Si (252.851 nm)	11.9136	0.06	75992.7587
	R2408422-006	Sn (189.925 nm)	0.0001 u	> 100.00	3.2042
	R2408422-006	Sr (216.596 nm)	3.4127	0.11	65555.9796
	R2408422-006	Ti (336.122 nm)	-0.0003 u	62.29	23.9662
	R2408422-006	Tl (190.794 nm)	0.0275	3.43	24.7023
	R2408422-006	V (292.401 nm)	0.0538	0.25	1985.3886
	R2408422-006	Y (360.074 nm)	0.73	0.22	377357.17
	R2408422-006	Y_R (360.074 nm)	0.73	0.23	377579.52
	R2408422-006	Zn (213.857 nm)	0.0746	0.12	4440.0391
9/9/2024 17:55:57	R2408422-007	Ag (328.068 nm)	-0.0001 u	> 100.00	-115.6235
	R2408422-007	Al (237.312 nm)	0.0008 u	> 100.00	-12.3139
	R2408422-007	As (188.980 nm)	0.0024	52.27	2.4102
	R2408422-007	B (249.772 nm)	11.6462 o	0.09	487130.8516
	R2408422-007	Ba (230.424 nm)	0.0949	0.08	5767.7461
	R2408422-007	Be (313.107 nm)	0.0000 u	96.23	-8.8879
	R2408422-007	Ca (317.933 nm)	224.8764 o	0.18	6971977.5369
	R2408422-007	Cd (214.439 nm)	0.0001	38.79	17.3264
	R2408422-007	Co (230.786 nm)	0.0000 u	> 100.00	5.9134
	R2408422-007	Cr (267.716 nm)	0.0103	2.18	602.4983
	R2408422-007	Cu (327.395 nm)	0.0003	53.42	-128.0241
	R2408422-007	Fe (234.350 nm)	2.8419	0.17	65023.9600
	R2408422-007	K (766.491 nm)	34.4776	0.37	42688.9423
	R2408422-007	Mg (279.078 nm)	21.1184	0.12	85277.7666
	R2408422-007	Mn (257.610 nm)	0.3508	0.10	121816.1350
	R2408422-007	Mo (202.032 nm)	0.0949	0.92	1024.3075

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408422-007	Na (588.995 nm)	338.5417 o	0.05	6184683.8530
	R2408422-007	Ni (230.299 nm)	0.0136	1.30	175.4049
	R2408422-007	Pb (220.353 nm)	0.0005	38.00	4.0656
	R2408422-007	Sb (217.582 nm)	0.0079	9.25	25.2152
	R2408422-007	Se (196.026 nm)	-0.0008 u	> 100.00	1.2605
	R2408422-007	Si (252.851 nm)	3.5777	0.07	22856.1660
	R2408422-007	Sn (189.925 nm)	0.0015	50.83	6.8308
	R2408422-007	Sr (216.596 nm)	1.4980	0.12	28779.0068
	R2408422-007	Ti (336.122 nm)	0.0006	57.39	153.3931
	R2408422-007	Tl (190.794 nm)	0.0013 u	> 100.00	-0.3637
	R2408422-007	V (292.401 nm)	0.0006	32.81	34.5436
	R2408422-007	Y (360.074 nm)	0.91	0.33	467649.05
	R2408422-007	Y_R (360.074 nm)	0.91	0.33	467835.86
	R2408422-007	Zn (213.857 nm)	0.0316	0.56	1891.6131
9/9/2024 17:59:11	R2408422-008	Ag (328.068 nm)	-0.0002 u	59.12	-124.5573
	R2408422-008	Al (237.312 nm)	3.1289	1.23	7950.0786
	R2408422-008	As (188.980 nm)	0.0054	36.03	7.3697
	R2408422-008	B (249.772 nm)	0.0346	2.00	1488.3828
	R2408422-008	Ba (230.424 nm)	0.8190	0.17	49721.6871
	R2408422-008	Be (313.107 nm)	0.0000	34.93	21.3463
	R2408422-008	Ca (317.933 nm)	####	N/A	####
	R2408422-008	Cd (214.439 nm)	0.0002	30.90	24.0221
	R2408422-008	Co (230.786 nm)	0.0011	26.74	27.3819
	R2408422-008	Cr (267.716 nm)	0.3728	0.12	21695.3934
	R2408422-008	Cu (327.395 nm)	0.0028	10.41	-16.1033
	R2408422-008	Fe (234.350 nm)	8.8065	0.20	201392.4384
	R2408422-008	K (766.491 nm)	153.2730 o	0.49	188504.6287
	R2408422-008	Mg (279.078 nm)	1.4312	0.15	5780.4281
	R2408422-008	Mn (257.610 nm)	0.8096	0.18	281120.9117
	R2408422-008	Mo (202.032 nm)	0.0021	17.75	29.3373
	R2408422-008	Na (588.995 nm)	1702.6808 o	1.16	31147099.7510
	R2408422-008	Ni (230.299 nm)	0.0328	0.64	420.2229
	R2408422-008	Pb (220.353 nm)	0.0016	> 100.00	9.2750
	R2408422-008	Sb (217.582 nm)	0.0052	42.21	19.0501
	R2408422-008	Se (196.026 nm)	-0.0004 u	> 100.00	1.5094
	R2408422-008	Si (252.851 nm)	8.6153	0.59	54967.8330
	R2408422-008	Sn (189.925 nm)	0.0025	29.78	9.4462
	R2408422-008	Sr (216.596 nm)	5.5529 o	0.33	106665.7567
	R2408422-008	Ti (336.122 nm)	0.0475	6.19	7330.0875
	R2408422-008	Tl (190.794 nm)	0.0023 u	> 100.00	0.5700
	R2408422-008	V (292.401 nm)	0.0048	5.10	188.4680
	R2408422-008	Y (360.074 nm)	0.68	0.35	350458.73
	R2408422-008	Y_R (360.074 nm)	0.68	0.36	350692.10
	R2408422-008	Zn (213.857 nm)	0.0527	0.07	3139.5660
9/9/2024 18:02:25	R2408422-009	Ag (328.068 nm)	-0.0001 u	> 100.00	-120.0514
	R2408422-009	Al (237.312 nm)	0.0008	74.12	-12.3105
	R2408422-009	As (188.980 nm)	0.0007 u	> 100.00	-0.3035
	R2408422-009	B (249.772 nm)	4.5776	0.13	191493.8085
	R2408422-009	Ba (230.424 nm)	0.0549	0.17	3335.7051
	R2408422-009	Be (313.107 nm)	0.0000 u	> 100.00	-10.9357
	R2408422-009	Ca (317.933 nm)	256.6217 o	0.12	7956037.6010
	R2408422-009	Cd (214.439 nm)	0.0001	71.77	17.3249
	R2408422-009	Co (230.786 nm)	0.0013	12.36	30.7551
	R2408422-009	Cr (267.716 nm)	3.8401 o	0.11	223461.3532
	R2408422-009	Cu (327.395 nm)	0.0050	3.13	82.0032
	R2408422-009	Fe (234.350 nm)	0.0224	7.29	562.2295
	R2408422-009	K (766.491 nm)	27.4387	0.34	34049.0638

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408422-009	Mg (279.078 nm)	29.1191	0.06	117584.5385
	R2408422-009	Mn (257.610 nm)	0.3087	0.08	107199.3211
	R2408422-009	Mo (202.032 nm)	0.0360	1.08	392.8672
	R2408422-009	Na (588.995 nm)	421.4270 o	0.13	7701404.6997
	R2408422-009	Ni (230.299 nm)	0.0158	2.08	204.3300
	R2408422-009	Pb (220.353 nm)	0.0003 u	> 100.00	2.8973
	R2408422-009	Sb (217.582 nm)	0.0036	28.27	15.5441
	R2408422-009	Se (196.026 nm)	-0.0022 u	> 100.00	0.1105
	R2408422-009	Si (252.851 nm)	4.3825	0.10	27986.0792
	R2408422-009	Sn (189.925 nm)	0.0016	70.99	7.1578
	R2408422-009	Sr (216.596 nm)	1.3576	0.10	26082.8709
	R2408422-009	Ti (336.122 nm)	0.0002	77.86	93.9605
	R2408422-009	Tl (190.794 nm)	0.0031	28.52	1.2934
	R2408422-009	V (292.401 nm)	-0.0001 u	46.48	9.3936
	R2408422-009	Y (360.074 nm)	0.89	0.38	461470.99
	R2408422-009	Y_R (360.074 nm)	0.90	0.37	461714.03
	R2408422-009	Zn (213.857 nm)	0.0193	0.33	1162.2549
9/9/2024 18:05:39	R2408422-010	Ag (328.068 nm)	-0.0004 u	33.06	-133.2784
	R2408422-010	Al (237.312 nm)	0.1660	0.38	408.0441
	R2408422-010	As (188.980 nm)	0.0717	1.61	113.6603
	R2408422-010	B (249.772 nm)	0.1085	0.66	4579.9099
	R2408422-010	Ba (230.424 nm)	0.0065	1.47	400.7456
	R2408422-010	Be (313.107 nm)	0.0001	3.46	103.9488
	R2408422-010	Ca (317.933 nm)	4.2290	0.02	132206.6798
	R2408422-010	Cd (214.439 nm)	0.0144	0.84	870.9651
	R2408422-010	Co (230.786 nm)	0.0083	2.84	172.1081
	R2408422-010	Cr (267.716 nm)	4.2339 o	0.08	246379.0140
	R2408422-010	Cu (327.395 nm)	0.0308	0.94	1237.0685
	R2408422-010	Fe (234.350 nm)	1.4440	0.11	33065.8320
	R2408422-010	K (766.491 nm)	33.1501	2.09	41059.5590
	R2408422-010	Mg (279.078 nm)	0.1444	0.79	584.2727
	R2408422-010	Mn (257.610 nm)	0.0062	0.50	2147.9741
	R2408422-010	Mo (202.032 nm)	0.2964	0.50	3184.4562
	R2408422-010	Na (588.995 nm)	1576.8523 o	1.09	28844560.4942
	R2408422-010	Ni (230.299 nm)	0.1608	1.50	2047.2112
	R2408422-010	Pb (220.353 nm)	0.0034	21.05	18.5298
	R2408422-010	Sb (217.582 nm)	0.0082	3.48	26.0787
	R2408422-010	Se (196.026 nm)	0.0055	25.65	6.1326
	R2408422-010	Si (252.851 nm)	25.3478	3.03	161627.7897
	R2408422-010	Sn (189.925 nm)	0.0037	19.40	12.5989
	R2408422-010	Sr (216.596 nm)	0.0118	1.25	233.1948
	R2408422-010	Ti (336.122 nm)	0.0218	0.71	3400.2921
	R2408422-010	Tl (190.794 nm)	0.0006 u	> 100.00	-1.0873
	R2408422-010	V (292.401 nm)	0.1912	0.12	7014.5402
	R2408422-010	Y (360.074 nm)	0.76	0.49	390431.83
	R2408422-010	Y_R (360.074 nm)	0.76	0.49	390753.84
	R2408422-010	Zn (213.857 nm)	0.0329	0.52	1967.2198
9/9/2024 18:08:53	R2408422-011	Ag (328.068 nm)	0.0002	69.63	-103.5915
	R2408422-011	Al (237.312 nm)	0.0030	60.15	-6.8313
	R2408422-011	As (188.980 nm)	0.0026	83.74	2.7631
	R2408422-011	B (249.772 nm)	0.7935	0.16	33228.8564
	R2408422-011	Ba (230.424 nm)	0.0244	0.22	1489.2821
	R2408422-011	Be (313.107 nm)	0.0000 u	> 100.00	-13.8034
	R2408422-011	Ca (317.933 nm)	124.2735 o	0.10	3853423.1999
	R2408422-011	Cd (214.439 nm)	0.0000 u	> 100.00	11.5921
	R2408422-011	Co (230.786 nm)	-0.0001 u	> 100.00	2.4809
	R2408422-011	Cr (267.716 nm)	0.0199	0.14	1164.8425

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408422-011	Cu (327.395 nm)	0.0001 u	> 100.00	-136.3729
	R2408422-011	Fe (234.350 nm)	0.0304	2.77	746.0331
	R2408422-011	K (766.491 nm)	22.4705	0.55	27950.9084
	R2408422-011	Mg (279.078 nm)	37.0012	0.04	149412.6405
	R2408422-011	Mn (257.610 nm)	0.0441	0.13	15312.2116
	R2408422-011	Mo (202.032 nm)	0.0548	0.61	593.9153
	R2408422-011	Na (588.995 nm)	580.8973 o	0.17	10619556.1797
	R2408422-011	Ni (230.299 nm)	0.0390	1.43	498.6517
	R2408422-011	Pb (220.353 nm)	0.0003 u	> 100.00	2.9566
	R2408422-011	Sb (217.582 nm)	0.0064	26.19	21.9487
	R2408422-011	Se (196.026 nm)	-0.0011 u	> 100.00	1.0169
	R2408422-011	Si (252.851 nm)	10.6744	0.08	68093.5005
	R2408422-011	Sn (189.925 nm)	0.0013	32.30	6.4253
	R2408422-011	Sr (216.596 nm)	0.3603	0.09	6927.0875
	R2408422-011	Ti (336.122 nm)	0.0004	46.59	125.2938
	R2408422-011	Tl (190.794 nm)	0.0008 u	> 100.00	-0.8699
	R2408422-011	V (292.401 nm)	0.0011	8.71	55.8165
	R2408422-011	Y (360.074 nm)	0.89	0.49	461369.46
	R2408422-011	Y_R (360.074 nm)	0.89	0.49	461621.07
	R2408422-011	Zn (213.857 nm)	0.0134	0.59	811.3117
9/9/2024 18:12:07	R2408422-012	Ag (328.068 nm)	-0.0001 u	48.80	-115.3436
	R2408422-012	Al (237.312 nm)	0.0030	51.54	-6.7076
	R2408422-012	As (188.980 nm)	0.0028	23.05	3.1048
	R2408422-012	B (249.772 nm)	0.0036	4.27	191.5110
	R2408422-012	Ba (230.424 nm)	0.0001	58.13	15.1331
	R2408422-012	Be (313.107 nm)	0.0000	28.95	-4.2189
	R2408422-012	Ca (317.933 nm)	0.0134	1.84	1528.5738
	R2408422-012	Cd (214.439 nm)	0.0001	54.19	13.7639
	R2408422-012	Co (230.786 nm)	-0.0001 u	98.86	3.5180
	R2408422-012	Cr (267.716 nm)	0.0005	20.59	33.6803
	R2408422-012	Cu (327.395 nm)	-0.0002 u	55.50	-150.2402
	R2408422-012	Fe (234.350 nm)	0.0041	8.30	143.9757
	R2408422-012	K (766.491 nm)	0.3094	6.22	749.2223
	R2408422-012	Mg (279.078 nm)	0.0005	> 100.00	3.0161
	R2408422-012	Mn (257.610 nm)	0.0002	6.86	64.9954
	R2408422-012	Mo (202.032 nm)	0.0012	19.20	19.3777
	R2408422-012	Na (588.995 nm)	2.6503	5.66	38198.3084
	R2408422-012	Ni (230.299 nm)	0.0001 u	> 100.00	3.7143
	R2408422-012	Pb (220.353 nm)	-0.0001 u	> 100.00	1.0272
	R2408422-012	Sb (217.582 nm)	0.0087	25.17	27.2406
	R2408422-012	Se (196.026 nm)	0.0002 u	> 100.00	1.9810
	R2408422-012	Si (252.851 nm)	0.0389	17.83	298.1105
	R2408422-012	Sn (189.925 nm)	0.0017	69.37	7.3553
	R2408422-012	Sr (216.596 nm)	-0.0001 u	> 100.00	4.5470
	R2408422-012	Ti (336.122 nm)	0.0005	25.88	147.1920
	R2408422-012	Tl (190.794 nm)	0.0006	98.65	-1.0402
	R2408422-012	V (292.401 nm)	-0.0002 u	> 100.00	8.3372
	R2408422-012	Y (360.074 nm)	1.03	0.25	533038.44
	R2408422-012	Y_R (360.074 nm)	1.03	0.25	533176.07
	R2408422-012	Zn (213.857 nm)	0.0184	0.16	1107.9947
9/9/2024 18:15:21	R2408444-001	Ag (328.068 nm)	0.0000 u	> 100.00	-111.8568
	R2408444-001	Al (237.312 nm)	0.1243	1.29	301.9249
	R2408444-001	As (188.980 nm)	0.0003 u	> 100.00	-0.9076
	R2408444-001	B (249.772 nm)	0.0098	0.56	449.6554
	R2408444-001	Ba (230.424 nm)	0.0041	1.26	254.6030
	R2408444-001	Be (313.107 nm)	0.0000 u	> 100.00	-14.6345
	R2408444-001	Ca (317.933 nm)	9.8547	0.13	306595.9909

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408444-001	Cd (214.439 nm)	0.0001	39.69	16.2420
	R2408444-001	Co (230.786 nm)	0.0000 u	> 100.00	5.3032
	R2408444-001	Cr (267.716 nm)	0.0010	10.43	62.3264
	R2408444-001	Cu (327.395 nm)	0.0005	35.01	-115.9663
	R2408444-001	Fe (234.350 nm)	0.8742	0.15	20038.1080
	R2408444-001	K (766.491 nm)	0.5553	2.41	1051.0205
	R2408444-001	Mg (279.078 nm)	2.0941	0.28	8457.0354
	R2408444-001	Mn (257.610 nm)	0.0818	0.07	28408.5729
	R2408444-001	Mo (202.032 nm)	0.0007	8.40	13.8115
	R2408444-001	Na (588.995 nm)	3.6465	1.36	56429.3029
	R2408444-001	Ni (230.299 nm)	0.0062	1.41	81.5616
	R2408444-001	Pb (220.353 nm)	0.0002 u	> 100.00	2.2951
	R2408444-001	Sb (217.582 nm)	0.0072	11.63	23.6963
	R2408444-001	Se (196.026 nm)	-0.0037 u	63.52	-1.0544
	R2408444-001	Si (252.851 nm)	1.9600	0.20	12544.3693
	R2408444-001	Sn (189.925 nm)	0.0009 u	> 100.00	5.4057
	R2408444-001	Sr (216.596 nm)	0.0267	0.29	518.1200
	R2408444-001	Ti (336.122 nm)	0.0016	6.58	315.9809
	R2408444-001	Tl (190.794 nm)	0.0008 u	> 100.00	-0.8524
	R2408444-001	V (292.401 nm)	0.0003	11.29	25.4280
	R2408444-001	Y (360.074 nm)	1.02	0.17	528359.08
	R2408444-001	Y_R (360.074 nm)	1.02	0.17	528518.21
	R2408444-001	Zn (213.857 nm)	0.0173	0.29	1038.3945
9/9/2024 18:18:35	R2408444-001L 5X	Ag (328.068 nm)	-0.0002 u	44.76	-123.4261
	R2408444-001L 5X	Al (237.312 nm)	0.0282	2.97	57.3025
	R2408444-001L 5X	As (188.980 nm)	0.0013	87.42	0.7325
	R2408444-001L 5X	B (249.772 nm)	0.0028	2.11	157.1181
	R2408444-001L 5X	Ba (230.424 nm)	0.0009	1.16	63.4521
	R2408444-001L 5X	Be (313.107 nm)	0.0000 u	95.83	-19.5480
	R2408444-001L 5X	Ca (317.933 nm)	1.9637	0.96	61985.2293
	R2408444-001L 5X	Cd (214.439 nm)	0.0000	61.96	10.9333
	R2408444-001L 5X	Co (230.786 nm)	0.0001 u	> 100.00	7.0410
	R2408444-001L 5X	Cr (267.716 nm)	0.0002	42.37	15.7788
	R2408444-001L 5X	Cu (327.395 nm)	-0.0001 u	73.39	-145.0361
	R2408444-001L 5X	Fe (234.350 nm)	0.1756	0.69	4066.2971
	R2408444-001L 5X	K (766.491 nm)	0.2366	26.07	659.8742
	R2408444-001L 5X	Mg (279.078 nm)	0.4179	0.95	1688.6174
	R2408444-001L 5X	Mn (257.610 nm)	0.0163	0.91	5674.0409
	R2408444-001L 5X	Mo (202.032 nm)	0.0002 u	> 100.00	8.7789
	R2408444-001L 5X	Na (588.995 nm)	1.9000	1.29	24469.0606
	R2408444-001L 5X	Ni (230.299 nm)	0.0013	16.49	19.0585
	R2408444-001L 5X	Pb (220.353 nm)	0.0000 u	> 100.00	1.3685
	R2408444-001L 5X	Sb (217.582 nm)	0.0033	29.99	14.8409
	R2408444-001L 5X	Se (196.026 nm)	-0.0026 u	75.62	-0.1850
	R2408444-001L 5X	Si (252.851 nm)	0.4246	0.17	2757.2595
	R2408444-001L 5X	Sn (189.925 nm)	0.0007	69.12	4.9011
	R2408444-001L 5X	Sr (216.596 nm)	0.0051	4.59	104.1410
	R2408444-001L 5X	Ti (336.122 nm)	0.0004	18.81	131.3321
	R2408444-001L 5X	Tl (190.794 nm)	0.0000 u	> 100.00	-1.6187
	R2408444-001L 5X	V (292.401 nm)	0.0000 u	> 100.00	15.6378
	R2408444-001L 5X	Y (360.074 nm)	1.03	0.29	531881.42
	R2408444-001L 5X	Y_R (360.074 nm)	1.03	0.29	532083.33
	R2408444-001L 5X	Zn (213.857 nm)	0.0035	4.31	224.6130
9/9/2024 18:21:49	Continuing Calibration Verification	Ag (328.068 nm)	0.4968	0.12	27760.1425
	Continuing Calibration Verification	Al (237.312 nm)	9.5849	0.25	24383.4192
	Continuing Calibration Verification	As (188.980 nm)	0.9954	0.47	1594.7746
	Continuing Calibration Verification	B (249.772 nm)	2.2965	0.10	96092.0605

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	Ba (230.424 nm)	9.7663	0.13	592824.4274
	Continuing Calibration Verification	Be (313.107 nm)	0.2450	0.04	291621.2938
	Continuing Calibration Verification	Ca (317.933 nm)	25.8079	0.07	801124.7042
	Continuing Calibration Verification	Cd (214.439 nm)	0.5092	0.08	30563.5341
	Continuing Calibration Verification	Co (230.786 nm)	2.5046	0.15	50440.4631
	Continuing Calibration Verification	Cr (267.716 nm)	0.5115	0.11	29771.3065
	Continuing Calibration Verification	Cu (327.395 nm)	1.1875	0.43	52992.4049
	Continuing Calibration Verification	Fe (234.350 nm)	4.9217	0.05	112573.7098
	Continuing Calibration Verification	K (766.491 nm)	24.6775	0.53	30659.8118
	Continuing Calibration Verification	Mg (279.078 nm)	25.8276	0.08	104293.6816
	Continuing Calibration Verification	Mn (257.610 nm)	0.7285	0.10	252940.3427
	Continuing Calibration Verification	Mo (202.032 nm)	2.5462	0.08	27304.5035
	Continuing Calibration Verification	Na (588.995 nm)	24.6775	0.45	441274.8367
	Continuing Calibration Verification	Ni (230.299 nm)	2.0118	0.02	25573.2922
	Continuing Calibration Verification	Pb (220.353 nm)	0.5049	0.12	2546.3588
	Continuing Calibration Verification	Sb (217.582 nm)	4.9108	0.19	11268.8918
	Continuing Calibration Verification	Se (196.026 nm)	0.4895	0.41	384.8820
	Continuing Calibration Verification	Si (252.851 nm)	9.8018	0.71	62531.2934
	Continuing Calibration Verification	Sn (189.925 nm)	5.0867	0.07	13299.1074
	Continuing Calibration Verification	Sr (216.596 nm)	2.5344	0.03	48686.0184
	Continuing Calibration Verification	Ti (336.122 nm)	2.5240	0.16	386071.6086
	Continuing Calibration Verification	Tl (190.794 nm)	0.9931	0.09	949.9890
	Continuing Calibration Verification	V (292.401 nm)	2.5148	0.06	92075.4891
	Continuing Calibration Verification	Y (360.074 nm)	0.98	0.54	505739.65
	Continuing Calibration Verification	Y_R (360.074 nm)	0.98	0.55	506067.85
	Continuing Calibration Verification	Zn (213.857 nm)	0.9838	0.11	58389.1273
9/9/2024 18:25:02	Continuing Calibration Blank	Ag (328.068 nm)	-0.0003 u	53.13	-129.4839
	Continuing Calibration Blank	Al (237.312 nm)	0.0006 u	> 100.00	-12.9992
	Continuing Calibration Blank	As (188.980 nm)	0.0026	21.34	2.7359
	Continuing Calibration Blank	B (249.772 nm)	0.0023	13.75	136.7622
	Continuing Calibration Blank	Ba (230.424 nm)	0.0006	15.76	40.1994
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	34.51	-6.3966
	Continuing Calibration Blank	Ca (317.933 nm)	0.0059	5.66	1295.2846
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	8.6544
	Continuing Calibration Blank	Co (230.786 nm)	0.0001 u	> 100.00	7.5074
	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u	> 100.00	5.3857
	Continuing Calibration Blank	Cu (327.395 nm)	-0.0001 u	> 100.00	-145.2542
	Continuing Calibration Blank	Fe (234.350 nm)	0.0047	17.28	157.6618
	Continuing Calibration Blank	K (766.491 nm)	0.1115	16.11	506.1997
	Continuing Calibration Blank	Mg (279.078 nm)	0.0003 u	> 100.00	2.1361
	Continuing Calibration Blank	Mn (257.610 nm)	0.0001	22.38	37.7476
	Continuing Calibration Blank	Mo (202.032 nm)	0.0063	14.46	73.9986
	Continuing Calibration Blank	Na (588.995 nm)	1.0705 Z	0.37	9290.5396 Z
	Continuing Calibration Blank	Ni (230.299 nm)	0.0003	87.31	7.3854
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0004 u	61.03	-0.4496
	Continuing Calibration Blank	Sb (217.582 nm)	0.0114	9.23	33.4035
	Continuing Calibration Blank	Se (196.026 nm)	-0.0008 u	> 100.00	1.2067
	Continuing Calibration Blank	Si (252.851 nm)	0.0102	16.16	115.3906
	Continuing Calibration Blank	Sn (189.925 nm)	0.0019	11.92	8.0044
	Continuing Calibration Blank	Sr (216.596 nm)	0.0001	65.21	7.1221
	Continuing Calibration Blank	Ti (336.122 nm)	0.0068	23.22	1109.0686
	Continuing Calibration Blank	Tl (190.794 nm)	0.0003 u	> 100.00	-1.3334
	Continuing Calibration Blank	V (292.401 nm)	0.0000 u	> 100.00	12.9902
	Continuing Calibration Blank	Y (360.074 nm)	1.02	0.15	528223.34
	Continuing Calibration Blank	Y_R (360.074 nm)	1.03	0.15	528720.40
	Continuing Calibration Blank	Zn (213.857 nm)	0.0000 u	57.28	11.3888
9/9/2024 18:28:16	R2408444-002	Ag (328.068 nm)	-0.0002 u	> 100.00	-121.5355

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408444-002	Al (237.312 nm)	0.1398	0.37	341.3578
	R2408444-002	As (188.980 nm)	0.0011 u	> 100.00	0.3908
	R2408444-002	B (249.772 nm)	0.0099	0.53	454.0982
	R2408444-002	Ba (230.424 nm)	0.0044	0.34	272.8468
	R2408444-002	Be (313.107 nm)	0.0000 u	> 100.00	-10.5416
	R2408444-002	Ca (317.933 nm)	13.1788	0.21	409637.3667
	R2408444-002	Cd (214.439 nm)	0.0000 u	> 100.00	11.8226
	R2408444-002	Co (230.786 nm)	-0.0001 u	> 100.00	2.6481
	R2408444-002	Cr (267.716 nm)	0.0008	6.94	50.7985
	R2408444-002	Cu (327.395 nm)	0.0007	19.79	-109.2894
	R2408444-002	Fe (234.350 nm)	0.6498	0.27	14907.6998
	R2408444-002	K (766.491 nm)	0.6068	1.52	1114.2707
	R2408444-002	Mg (279.078 nm)	2.1658	0.07	8746.6964
	R2408444-002	Mn (257.610 nm)	0.0327	0.13	11378.7876
	R2408444-002	Mo (202.032 nm)	0.0017	23.29	24.4494
	R2408444-002	Na (588.995 nm)	2.9877	0.16	44372.5874
	R2408444-002	Ni (230.299 nm)	0.0053	1.28	70.2047
	R2408444-002	Pb (220.353 nm)	0.0008	13.43	5.2276
	R2408444-002	Sb (217.582 nm)	0.0112	1.97	32.8051
	R2408444-002	Se (196.026 nm)	0.0007	> 100.00	2.3696
	R2408444-002	Si (252.851 nm)	1.6581	0.11	10619.8644
	R2408444-002	Sn (189.925 nm)	0.0015	50.19	6.8358
	R2408444-002	Sr (216.596 nm)	0.0315	0.77	611.2269
	R2408444-002	Ti (336.122 nm)	0.0044	12.65	742.6034
	R2408444-002	Tl (190.794 nm)	-0.0001 u	> 100.00	-1.7426
	R2408444-002	V (292.401 nm)	0.0004	21.72	28.4499
	R2408444-002	Y (360.074 nm)	1.02	0.36	528114.04
	R2408444-002	Y_R (360.074 nm)	1.02	0.36	528575.10
	R2408444-002	Zn (213.857 nm)	0.0588	0.07	3502.2394
9/9/2024 18:31:30	R2408444-003	Ag (328.068 nm)	-0.0002 u	29.73	-122.7994
	R2408444-003	Al (237.312 nm)	0.0652	1.65	151.5587
	R2408444-003	As (188.980 nm)	-0.0006 u	> 100.00	-2.2715
	R2408444-003	B (249.772 nm)	0.0106	0.18	486.4379
	R2408444-003	Ba (230.424 nm)	0.0088	1.75	537.5259
	R2408444-003	Be (313.107 nm)	0.0000 u	> 100.00	-13.1750
	R2408444-003	Ca (317.933 nm)	25.9281	0.10	804848.3345
	R2408444-003	Cd (214.439 nm)	0.0001	24.71	16.1069
	R2408444-003	Co (230.786 nm)	-0.0001 u	> 100.00	3.4131
	R2408444-003	Cr (267.716 nm)	0.0006	9.48	37.7728
	R2408444-003	Cu (327.395 nm)	0.0008	11.09	-102.2794
	R2408444-003	Fe (234.350 nm)	0.2356	0.25	5437.1133
	R2408444-003	K (766.491 nm)	0.8353	1.14	1394.7372
	R2408444-003	Mg (279.078 nm)	3.6881	0.10	14893.8096
	R2408444-003	Mn (257.610 nm)	0.0637	0.03	22120.5619
	R2408444-003	Mo (202.032 nm)	0.0010	33.04	17.5223
	R2408444-003	Na (588.995 nm)	13.0129	0.24	227825.5771
	R2408444-003	Ni (230.299 nm)	0.0065	3.29	85.7511
	R2408444-003	Pb (220.353 nm)	0.0000 u	> 100.00	1.5286
	R2408444-003	Sb (217.582 nm)	0.0082	5.26	25.9732
	R2408444-003	Se (196.026 nm)	-0.0003 u	> 100.00	1.6189
	R2408444-003	Si (252.851 nm)	1.9720	0.09	12621.0352
	R2408444-003	Sn (189.925 nm)	0.0016	52.15	7.3047
	R2408444-003	Sr (216.596 nm)	0.0642	0.26	1238.0656
	R2408444-003	Ti (336.122 nm)	0.0023	19.52	425.9590
	R2408444-003	Tl (190.794 nm)	0.0004	84.18	-1.2372
	R2408444-003	V (292.401 nm)	0.0002	35.08	22.1125
	R2408444-003	Y (360.074 nm)	1.01	0.34	522281.79

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408444-003	Y_R (360.074 nm)	1.01	0.34	522691.46
	R2408444-003	Zn (213.857 nm)	0.0220	0.12	1319.5403
9/9/2024 18:34:44	R2408444-004	Ag (328.068 nm)	-0.0001 u	> 100.00	-119.5342
	R2408444-004	Al (237.312 nm)	0.1888	0.74	466.0187
	R2408444-004	As (188.980 nm)	0.0008	45.48	-0.0884
	R2408444-004	B (249.772 nm)	0.0084	0.53	392.0742
	R2408444-004	Ba (230.424 nm)	0.0058	0.78	356.5627
	R2408444-004	Be (313.107 nm)	0.0000	63.86	-5.6779
	R2408444-004	Ca (317.933 nm)	17.1608	0.13	533075.8104
	R2408444-004	Cd (214.439 nm)	0.0001	31.12	15.3453
	R2408444-004	Co (230.786 nm)	0.0000 u	> 100.00	5.2734
	R2408444-004	Cr (267.716 nm)	0.0016	4.34	96.9567
	R2408444-004	Cu (327.395 nm)	0.0010	21.29	-94.9876
	R2408444-004	Fe (234.350 nm)	1.4649	0.14	33542.2160
	R2408444-004	K (766.491 nm)	0.6054	1.52	1112.4947
	R2408444-004	Mg (279.078 nm)	2.3552	0.22	9511.4962
	R2408444-004	Mn (257.610 nm)	0.2731	0.12	94826.9021
	R2408444-004	Mo (202.032 nm)	0.0008	26.82	14.7650
	R2408444-004	Na (588.995 nm)	17.9813	0.22	318741.7551
	R2408444-004	Ni (230.299 nm)	0.0057	0.83	75.9194
	R2408444-004	Pb (220.353 nm)	-0.0001 u	> 100.00	1.1182
	R2408444-004	Sb (217.582 nm)	0.0054	32.27	19.5584
	R2408444-004	Se (196.026 nm)	-0.0014 u	> 100.00	0.7690
	R2408444-004	Si (252.851 nm)	1.6477	0.15	10553.2400
	R2408444-004	Sn (189.925 nm)	0.0010	58.32	5.7250
	R2408444-004	Sr (216.596 nm)	0.0431	0.29	834.3561
	R2408444-004	Ti (336.122 nm)	0.0030	12.89	532.1278
	R2408444-004	Tl (190.794 nm)	-0.0008 u	> 100.00	-2.3760
	R2408444-004	V (292.401 nm)	0.0006	9.60	38.0005
	R2408444-004	Y (360.074 nm)	1.01	0.22	521829.30
	R2408444-004	Y_R (360.074 nm)	1.01	0.22	522283.54
	R2408444-004	Zn (213.857 nm)	0.0212	0.16	1274.8230
9/9/2024 18:37:58	R2408444-005	Ag (328.068 nm)	-0.0001 u	81.66	-117.4901
	R2408444-005	Al (237.312 nm)	0.0016	46.24	-10.3370
	R2408444-005	As (188.980 nm)	-0.0004 u	> 100.00	-2.0415
	R2408444-005	B (249.772 nm)	0.0018	3.53	118.4696
	R2408444-005	Ba (230.424 nm)	0.0002	3.09	17.9020
	R2408444-005	Be (313.107 nm)	0.0000	9.70	-8.5707
	R2408444-005	Ca (317.933 nm)	0.0133	1.71	1525.6297
	R2408444-005	Cd (214.439 nm)	0.0000 u	> 100.00	11.1681
	R2408444-005	Co (230.786 nm)	-0.0002 u	60.52	1.6290
	R2408444-005	Cr (267.716 nm)	0.0007	15.63	44.5558
	R2408444-005	Cu (327.395 nm)	-0.0001 u	> 100.00	-142.8295
	R2408444-005	Fe (234.350 nm)	0.0076	10.39	223.7315
	R2408444-005	K (766.491 nm)	0.0471	18.89	427.2566
	R2408444-005	Mg (279.078 nm)	0.0004 u	> 100.00	2.7333
	R2408444-005	Mn (257.610 nm)	0.0001	11.04	41.3671
	R2408444-005	Mo (202.032 nm)	0.0003	8.28	10.1620
	R2408444-005	Na (588.995 nm)	0.7026	0.52	2558.2719
	R2408444-005	Ni (230.299 nm)	0.0001 u	> 100.00	4.6479
	R2408444-005	Pb (220.353 nm)	0.0002 u	> 100.00	2.5634
	R2408444-005	Sb (217.582 nm)	0.0089	17.67	27.6013
	R2408444-005	Se (196.026 nm)	0.0015 u	> 100.00	3.0665
	R2408444-005	Si (252.851 nm)	0.0193	11.07	173.2319
	R2408444-005	Sn (189.925 nm)	0.0011	14.94	5.9323
	R2408444-005	Sr (216.596 nm)	0.0000 u	> 100.00	5.7005
	R2408444-005	Ti (336.122 nm)	0.0007	35.48	181.0488

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408444-005	Tl (190.794 nm)	-0.0012 u	> 100.00	-2.8227
	R2408444-005	V (292.401 nm)	-0.0001 u	37.60	10.1242
	R2408444-005	Y (360.074 nm)	1.04	0.16	538783.59
	R2408444-005	Y_R (360.074 nm)	1.05	0.16	539131.15
	R2408444-005	Zn (213.857 nm)	0.0294	0.07	1758.4255
9/9/2024 18:41:13	R2408422-006 10X	Ag (328.068 nm)	-0.0005 u	28.43	-140.2259
	R2408422-006 10X	Al (237.312 nm)	0.0012	> 100.00	-11.3573
	R2408422-006 10X	As (188.980 nm)	-0.0002 u	> 100.00	-1.6479
	R2408422-006 10X	B (249.772 nm)	0.0037	4.52	197.0458
	R2408422-006 10X	Ba (230.424 nm)	0.0260	0.46	1585.1343
	R2408422-006 10X	Be (313.107 nm)	0.0000 u	> 100.00	-14.0816
	R2408422-006 10X	Ca (317.933 nm)	155.8660 o	0.16	4832748.1336
	R2408422-006 10X	Cd (214.439 nm)	0.0000 u	> 100.00	8.5683
	R2408422-006 10X	Co (230.786 nm)	0.0000 u	> 100.00	5.7321
	R2408422-006 10X	Cr (267.716 nm)	14.6086 o LR	0.10	850094.4422
	R2408422-006 10X	Cu (327.395 nm)	0.0001 u	> 100.00	-135.1872
	R2408422-006 10X	Fe (234.350 nm)	0.0103	2.11	287.2617
	R2408422-006 10X	K (766.491 nm)	10.0324	0.64	12683.6792
	R2408422-006 10X	Mg (279.078 nm)	0.0021	70.67	9.7953
	R2408422-006 10X	Mn (257.610 nm)	0.0001	28.56	33.1483
	R2408422-006 10X	Mo (202.032 nm)	0.0038	2.26	47.2299
	R2408422-006 10X	Na (588.995 nm)	316.2189 o	0.19	5776198.3355
	R2408422-006 10X	Ni (230.299 nm)	0.0047	11.94	62.6090
	R2408422-006 10X	Pb (220.353 nm)	0.0002 u	> 100.00	2.2602
	R2408422-006 10X	Sb (217.582 nm)	0.0055	11.21	19.7260
	R2408422-006 10X	Se (196.026 nm)	0.0007 u	> 100.00	2.3833
	R2408422-006 10X	Si (252.851 nm)	1.1374	0.05	7300.8359
	R2408422-006 10X	Sn (189.925 nm)	-0.0006 u	67.24	1.3734
	R2408422-006 10X	Sr (216.596 nm)	0.3696	0.04	7104.9634
	R2408422-006 10X	Ti (336.122 nm)	0.0000 u	> 100.00	69.2247
	R2408422-006 10X	Tl (190.794 nm)	0.0033	46.35	1.5388
	R2408422-006 10X	V (292.401 nm)	0.0051	4.36	199.8890
	R2408422-006 10X	Y (360.074 nm)	0.92	0.27	476505.52
	R2408422-006 10X	Y_R (360.074 nm)	0.92	0.27	476869.22
	R2408422-006 10X	Zn (213.857 nm)	0.0073	0.71	446.5092
9/9/2024 18:44:27	R2408422-010 10X	Ag (328.068 nm)	-0.0003 u	33.73	-129.3722
	R2408422-010 10X	Al (237.312 nm)	0.0182	7.28	31.9828
	R2408422-010 10X	As (188.980 nm)	0.0071	8.64	9.9954
	R2408422-010 10X	B (249.772 nm)	0.0108	0.23	493.2349
	R2408422-010 10X	Ba (230.424 nm)	0.0009	4.97	62.0759
	R2408422-010 10X	Be (313.107 nm)	0.0000 u	> 100.00	-11.4589
	R2408422-010 10X	Ca (317.933 nm)	0.4514	0.18	15106.8624
	R2408422-010 10X	Cd (214.439 nm)	0.0015	1.41	102.4338
	R2408422-010 10X	Co (230.786 nm)	0.0007	6.29	20.0937
	R2408422-010 10X	Cr (267.716 nm)	0.4315	0.09	25110.5830
	R2408422-010 10X	Cu (327.395 nm)	0.0022	10.74	-39.6000
	R2408422-010 10X	Fe (234.350 nm)	0.1486	0.46	3448.4669
	R2408422-010 10X	K (766.491 nm)	1.4385	3.50	2135.1238
	R2408422-010 10X	Mg (279.078 nm)	0.0153	1.93	62.7589
	R2408422-010 10X	Mn (257.610 nm)	0.0007	0.95	247.4597
	R2408422-010 10X	Mo (202.032 nm)	0.0280	0.99	307.0669
	R2408422-010 10X	Na (588.995 nm)	389.9743 o	0.37	7125850.0902
	R2408422-010 10X	Ni (230.299 nm)	0.0156	1.29	200.7377
	R2408422-010 10X	Pb (220.353 nm)	0.0001 u	> 100.00	1.9296
	R2408422-010 10X	Sb (217.582 nm)	0.0029	11.94	13.8073
	R2408422-010 10X	Se (196.026 nm)	0.0020	35.91	3.4177
	R2408422-010 10X	Si (252.851 nm)	2.3551	3.38	15062.7763

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408422-010 10X	Sn (189.925 nm)	0.0009	60.57	5.2695
	R2408422-010 10X	Sr (216.596 nm)	0.0013	9.62	31.2818
	R2408422-010 10X	Ti (336.122 nm)	0.0024	8.35	437.7837
	R2408422-010 10X	Tl (190.794 nm)	0.0015	27.05	-0.1937
	R2408422-010 10X	V (292.401 nm)	0.0190	0.91	710.7024
	R2408422-010 10X	Y (360.074 nm)	0.93	0.24	481365.51
	R2408422-010 10X	Y_R (360.074 nm)	0.93	0.24	481795.82
	R2408422-010 10X	Zn (213.857 nm)	0.0031	3.35	201.1670
9/9/2024 18:47:41	Continuing Calibration Verification	Ag (328.068 nm)	0.4970	0.09	27772.2116
	Continuing Calibration Verification	Al (237.312 nm)	9.6109	0.12	24449.6792
	Continuing Calibration Verification	As (188.980 nm)	0.9941	0.08	1592.6227
	Continuing Calibration Verification	B (249.772 nm)	2.3009	0.07	96274.8645
	Continuing Calibration Verification	Ba (230.424 nm)	9.8186	0.33	595996.2694
	Continuing Calibration Verification	Be (313.107 nm)	0.2456	0.13	292245.7491
	Continuing Calibration Verification	Ca (317.933 nm)	25.8727	0.16	803133.8304
	Continuing Calibration Verification	Cd (214.439 nm)	0.5109	0.15	30666.0679
	Continuing Calibration Verification	Co (230.786 nm)	2.5095	0.41	50538.3957
	Continuing Calibration Verification	Cr (267.716 nm)	0.5127	0.04	29837.4795
	Continuing Calibration Verification	Cu (327.395 nm)	1.1882	0.44	53024.0473
	Continuing Calibration Verification	Fe (234.350 nm)	4.9370	0.18	112924.3788
	Continuing Calibration Verification	K (766.491 nm)	24.5574	0.65	30512.4408
	Continuing Calibration Verification	Mg (279.078 nm)	25.8462	0.13	104368.6410
	Continuing Calibration Verification	Mn (257.610 nm)	0.7301	0.08	253512.3310
	Continuing Calibration Verification	Mo (202.032 nm)	2.5531	0.20	27378.3609
	Continuing Calibration Verification	Na (588.995 nm)	24.2976	0.63	434323.0411
	Continuing Calibration Verification	Ni (230.299 nm)	2.0165	0.17	25632.3393
	Continuing Calibration Verification	Pb (220.353 nm)	0.5064	0.27	2554.3066
	Continuing Calibration Verification	Sb (217.582 nm)	4.9236	0.20	11298.2612
	Continuing Calibration Verification	Se (196.026 nm)	0.4877	0.68	383.4905
	Continuing Calibration Verification	Si (252.851 nm)	9.7907	0.67	62460.2194
	Continuing Calibration Verification	Sn (189.925 nm)	5.0938	0.12	13317.7392
	Continuing Calibration Verification	Sr (216.596 nm)	2.5427	0.70	48846.1963
	Continuing Calibration Verification	Ti (336.122 nm)	2.5259	0.13	386372.2324
	Continuing Calibration Verification	Tl (190.794 nm)	0.9959	0.34	952.6782
	Continuing Calibration Verification	V (292.401 nm)	2.5185	0.07	92212.5008
	Continuing Calibration Verification	Y (360.074 nm)	0.98	0.40	503088.40
	Continuing Calibration Verification	Y_R (360.074 nm)	0.98	0.39	503410.22
	Continuing Calibration Verification	Zn (213.857 nm)	0.9863	0.11	58536.6192
9/9/2024 18:50:55	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u	> 100.00	-112.0179
	Continuing Calibration Blank	Al (237.312 nm)	0.0015	72.37	-10.5900
	Continuing Calibration Blank	As (188.980 nm)	0.0006 u	> 100.00	-0.3792
	Continuing Calibration Blank	B (249.772 nm)	0.0019	16.22	121.9527
	Continuing Calibration Blank	Ba (230.424 nm)	0.0007	9.44	46.2053
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	50.46	-9.7764
	Continuing Calibration Blank	Ca (317.933 nm)	0.0050	4.97	1270.3160
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	10.9297
	Continuing Calibration Blank	Co (230.786 nm)	0.0001	> 100.00	7.0657
	Continuing Calibration Blank	Cr (267.716 nm)	0.0000	23.12	4.7840
	Continuing Calibration Blank	Cu (327.395 nm)	-0.0002 u	17.48	-149.9664
	Continuing Calibration Blank	Fe (234.350 nm)	0.0047	19.03	157.1777
	Continuing Calibration Blank	K (766.491 nm)	0.0604	53.73	443.4786
	Continuing Calibration Blank	Mg (279.078 nm)	0.0005	> 100.00	3.3162
	Continuing Calibration Blank	Mn (257.610 nm)	0.0001	13.22	41.4182
	Continuing Calibration Blank	Mo (202.032 nm)	0.0064	15.03	74.9111
	Continuing Calibration Blank	Na (588.995 nm)	0.6068	1.55	804.6745
	Continuing Calibration Blank	Ni (230.299 nm)	0.0000 u	> 100.00	2.5177
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0010 u	28.76	-3.8452

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Sb (217.582 nm)	0.0118	14.37	34.2595
	Continuing Calibration Blank	Se (196.026 nm)	0.0003 u	> 100.00	2.0812
	Continuing Calibration Blank	Si (252.851 nm)	0.0102	11.75	115.3633
	Continuing Calibration Blank	Sn (189.925 nm)	0.0020	13.73	8.3745
	Continuing Calibration Blank	Sr (216.596 nm)	0.0001	78.76	8.5928
	Continuing Calibration Blank	Ti (336.122 nm)	0.0070	23.09	1131.8801
	Continuing Calibration Blank	Tl (190.794 nm)	-0.0010 u	65.14	-2.6185
	Continuing Calibration Blank	V (292.401 nm)	0.0002 u	97.38	21.3702
	Continuing Calibration Blank	Y (360.074 nm)	1.02	0.13	527259.30
	Continuing Calibration Blank	Y_R (360.074 nm)	1.02	0.14	527592.86
	Continuing Calibration Blank	Zn (213.857 nm)	0.0000 u	> 100.00	15.9530
9/9/2024 18:54:08	PBW-444305	Ag (328.068 nm)	-0.0002 u	40.38	-124.6191
	PBW-444305	Al (237.312 nm)	0.0024	22.53	-8.3490
	PBW-444305	As (188.980 nm)	0.0006 u	> 100.00	-0.3742
	PBW-444305	B (249.772 nm)	0.0022	4.01	135.2208
	PBW-444305	Ba (230.424 nm)	0.0004	32.86	29.2124
	PBW-444305	Be (313.107 nm)	0.0000 u	> 100.00	-14.9288
	PBW-444305	Ca (317.933 nm)	0.0124	6.70	1497.1523
	PBW-444305	Cd (214.439 nm)	0.0001	44.36	13.0412
	PBW-444305	Co (230.786 nm)	0.0000 u	> 100.00	4.8309
	PBW-444305	Cr (267.716 nm)	0.0002	44.02	15.9678
	PBW-444305	Cu (327.395 nm)	0.0000 u	> 100.00	-141.2806
	PBW-444305	Fe (234.350 nm)	0.0049	15.90	162.8757
	PBW-444305	K (766.491 nm)	0.0446	59.50	424.1831
	PBW-444305	Mg (279.078 nm)	0.0005	91.46	3.1753
	PBW-444305	Mn (257.610 nm)	0.0001	17.25	42.5277
	PBW-444305	Mo (202.032 nm)	0.0017	16.42	24.6383
	PBW-444305	Na (588.995 nm)	0.5419	0.93	-382.4282
	PBW-444305	Ni (230.299 nm)	0.0002	43.93	5.6827
	PBW-444305	Pb (220.353 nm)	-0.0003 u	70.11	-0.2509
	PBW-444305	Sb (217.582 nm)	0.0166	12.75	45.3046
	PBW-444305	Se (196.026 nm)	0.0017	82.65	3.2186
	PBW-444305	Si (252.851 nm)	0.0214	10.30	187.0901
	PBW-444305	Sn (189.925 nm)	0.0018	30.60	7.8562
	PBW-444305	Sr (216.596 nm)	0.0002	84.04	9.5920
	PBW-444305	Ti (336.122 nm)	0.0027	32.87	487.3608
	PBW-444305	Tl (190.794 nm)	0.0003 u	> 100.00	-1.3400
	PBW-444305	V (292.401 nm)	0.0000 u	> 100.00	12.7024
	PBW-444305	Y (360.074 nm)	1.03	0.31	530130.02
	PBW-444305	Y_R (360.074 nm)	1.03	0.31	530478.41
	PBW-444305	Zn (213.857 nm)	0.0005	10.78	42.1075
9/9/2024 18:57:22	LCSW-444305	Ag (328.068 nm)	0.0496	0.61	2672.0918
	LCSW-444305	Al (237.312 nm)	1.9543	0.10	4960.1237
	LCSW-444305	As (188.980 nm)	0.0390	2.66	61.1943
	LCSW-444305	B (249.772 nm)	0.9280	0.12	38853.0510
	LCSW-444305	Ba (230.424 nm)	1.9886	0.18	120713.4510
	LCSW-444305	Be (313.107 nm)	0.0497	0.19	59145.4540
	LCSW-444305	Ca (317.933 nm)	2.0704	0.17	65293.3706
	LCSW-444305	Cd (214.439 nm)	0.0524	0.09	3153.1354
	LCSW-444305	Co (230.786 nm)	0.5106	0.09	10287.5446
	LCSW-444305	Cr (267.716 nm)	0.2036	0.14	11852.8784
	LCSW-444305	Cu (327.395 nm)	0.2476	0.13	10936.7306
	LCSW-444305	Fe (234.350 nm)	1.0129	0.20	23207.7952
	LCSW-444305	K (766.491 nm)	19.2772	0.08	24031.2662
	LCSW-444305	Mg (279.078 nm)	2.0163	0.15	8142.7989
	LCSW-444305	Mn (257.610 nm)	0.4852	0.18	168494.0765
	LCSW-444305	Mo (202.032 nm)	0.4931	0.86	5292.9956

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	LCSW-444305	Na (588.995 nm)	19.2743	0.13	342402.5140
	LCSW-444305	Ni (230.299 nm)	0.5042	0.34	6411.3528
	LCSW-444305	Pb (220.353 nm)	0.5266	0.31	2656.1415
	LCSW-444305	Sb (217.582 nm)	0.5065	0.51	1168.7437
	LCSW-444305	Se (196.026 nm)	1.0160	0.39	796.8311
	LCSW-444305	Si (252.851 nm)	0.3239	0.50	2115.1540
	LCSW-444305	Sn (189.925 nm)	5.0537	0.14	13212.8819
	LCSW-444305	Sr (216.596 nm)	2.0533	0.27	39445.2424
	LCSW-444305	Ti (336.122 nm)	0.4972	0.18	76113.7565
	LCSW-444305	Tl (190.794 nm)	1.9996	0.40	1914.4243
	LCSW-444305	V (292.401 nm)	0.4965	0.21	18190.0016
	LCSW-444305	Y (360.074 nm)	1.01	0.26	519621.77
	LCSW-444305	Y_R (360.074 nm)	1.01	0.25	519963.85
	LCSW-444305	Zn (213.857 nm)	0.5101	0.12	30280.3512
9/9/2024 19:00:36	R2408140-002	Ag (328.068 nm)	-0.0001 u	75.67	-119.4017
	R2408140-002	Al (237.312 nm)	0.0391	2.71	85.0930
	R2408140-002	As (188.980 nm)	0.0039	30.14	4.9716
	R2408140-002	B (249.772 nm)	0.0584	0.21	2482.4964
	R2408140-002	Ba (230.424 nm)	0.0771	0.28	4683.7867
	R2408140-002	Be (313.107 nm)	0.0000 u	> 100.00	-8.1405
	R2408140-002	Ca (317.933 nm)	30.0113	0.20	931424.1497
	R2408140-002	Cd (214.439 nm)	0.0001	28.40	18.6155
	R2408140-002	Co (230.786 nm)	0.0029	3.49	63.0701
	R2408140-002	Cr (267.716 nm)	0.0014	1.64	86.0575
	R2408140-002	Cu (327.395 nm)	0.0017	8.86	-61.7719
	R2408140-002	Fe (234.350 nm)	5.5249	0.20	126366.3253
	R2408140-002	K (766.491 nm)	4.0391	0.95	5327.2485
	R2408140-002	Mg (279.078 nm)	3.0314	0.24	12241.9488
	R2408140-002	Mn (257.610 nm)	1.4367	0.14	498861.5255
	R2408140-002	Mo (202.032 nm)	0.0049	22.17	59.2022
	R2408140-002	Na (588.995 nm)	5.6884	0.19	93793.5388
	R2408140-002	Ni (230.299 nm)	0.0137	1.82	177.3077
	R2408140-002	Pb (220.353 nm)	0.0004	> 100.00	3.4654
	R2408140-002	Sb (217.582 nm)	0.0087	16.24	27.2685
	R2408140-002	Se (196.026 nm)	0.0038	40.97	4.8096
	R2408140-002	Si (252.851 nm)	2.8435	0.02	18175.8092
	R2408140-002	Sn (189.925 nm)	0.0039	14.49	13.2439
	R2408140-002	Sr (216.596 nm)	0.0894	0.21	1722.3879
	R2408140-002	Ti (336.122 nm)	0.0031	23.96	545.2507
	R2408140-002	Tl (190.794 nm)	-0.0002 u	> 100.00	-1.8849
	R2408140-002	V (292.401 nm)	0.0007	24.17	39.7168
	R2408140-002	Y (360.074 nm)	1.01	0.19	521724.34
	R2408140-002	Y_R (360.074 nm)	1.01	0.19	522084.72
	R2408140-002	Zn (213.857 nm)	0.0142	0.84	857.4570
9/9/2024 19:03:50	R2408140-003	Ag (328.068 nm)	-0.0002 u	78.78	-121.9286
	R2408140-003	Al (237.312 nm)	0.0056	19.06	-0.1226
	R2408140-003	As (188.980 nm)	0.0012 u	> 100.00	0.5225
	R2408140-003	B (249.772 nm)	0.1144	0.13	4824.8804
	R2408140-003	Ba (230.424 nm)	0.0450	0.15	2737.7507
	R2408140-003	Be (313.107 nm)	0.0000	53.50	-4.0364
	R2408140-003	Ca (317.933 nm)	36.7283	0.23	1139639.8062
	R2408140-003	Cd (214.439 nm)	0.0001	66.36	16.1283
	R2408140-003	Co (230.786 nm)	0.0014	6.33	33.4721
	R2408140-003	Cr (267.716 nm)	0.0007	7.50	43.5653
	R2408140-003	Cu (327.395 nm)	0.0003	25.74	-126.3910
	R2408140-003	Fe (234.350 nm)	1.6013	0.18	36661.0472
	R2408140-003	K (766.491 nm)	1.4656	2.55	2168.3121

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408140-003	Mg (279.078 nm)	6.2742	0.09	25336.4691
	R2408140-003	Mn (257.610 nm)	1.2517	0.18	434630.1579
	R2408140-003	Mo (202.032 nm)	0.0015	27.33	22.8201
	R2408140-003	Na (588.995 nm)	10.2721	0.23	177670.5893
	R2408140-003	Ni (230.299 nm)	0.0140	2.72	180.5815
	R2408140-003	Pb (220.353 nm)	0.0007	23.02	4.9658
	R2408140-003	Sb (217.582 nm)	0.0053	31.85	19.4124
	R2408140-003	Se (196.026 nm)	-0.0006 u	> 100.00	1.3534
	R2408140-003	Si (252.851 nm)	2.9379	0.08	18777.7840
	R2408140-003	Sn (189.925 nm)	0.0021	25.63	8.4555
	R2408140-003	Sr (216.596 nm)	0.0986	0.11	1899.7078
	R2408140-003	Ti (336.122 nm)	0.0010	30.21	222.7280
	R2408140-003	Tl (190.794 nm)	0.0008 u	> 100.00	-0.9233
	R2408140-003	V (292.401 nm)	0.0001	40.43	19.2419
	R2408140-003	Y (360.074 nm)	1.01	0.24	518670.17
	R2408140-003	Y_R (360.074 nm)	1.01	0.23	518956.17
	R2408140-003	Zn (213.857 nm)	0.0038	1.76	241.0155
9/9/2024 19:07:04	R2408140-004	Ag (328.068 nm)	-0.0001 u	68.66	-119.9520
	R2408140-004	Al (237.312 nm)	0.0018	82.47	-9.7565
	R2408140-004	As (188.980 nm)	0.0012 u	> 100.00	0.5073
	R2408140-004	B (249.772 nm)	0.0017	4.15	113.4398
	R2408140-004	Ba (230.424 nm)	0.0002	45.05	16.1762
	R2408140-004	Be (313.107 nm)	0.0000 u	> 100.00	-14.5289
	R2408140-004	Ca (317.933 nm)	0.0148	1.40	1573.1888
	R2408140-004	Cd (214.439 nm)	0.0001	73.00	14.1609
	R2408140-004	Co (230.786 nm)	-0.0001 u	> 100.00	3.6164
	R2408140-004	Cr (267.716 nm)	0.0003	12.95	21.9384
	R2408140-004	Cu (327.395 nm)	0.0001 u	> 100.00	-135.7043
	R2408140-004	Fe (234.350 nm)	0.0100	11.74	280.0643
	R2408140-004	K (766.491 nm)	0.0530	67.00	434.4728
	R2408140-004	Mg (279.078 nm)	0.0007	36.57	3.7530
	R2408140-004	Mn (257.610 nm)	0.0001	19.27	52.5788
	R2408140-004	Mo (202.032 nm)	0.0006	30.62	13.2179
	R2408140-004	Na (588.995 nm)	0.3687	1.30	-3551.8995
	R2408140-004	Ni (230.299 nm)	0.0002 u	> 100.00	5.6497
	R2408140-004	Pb (220.353 nm)	0.0004	68.13	3.2044
	R2408140-004	Sb (217.582 nm)	0.0068	12.15	22.8257
	R2408140-004	Se (196.026 nm)	-0.0015 u	> 100.00	0.6726
	R2408140-004	Si (252.851 nm)	0.0138	15.22	138.3343
	R2408140-004	Sn (189.925 nm)	0.0015	7.12	7.0043
	R2408140-004	Sr (216.596 nm)	0.0000 u	> 100.00	6.3962
	R2408140-004	Ti (336.122 nm)	0.0008	29.70	189.1988
	R2408140-004	Tl (190.794 nm)	0.0001 u	> 100.00	-1.5737
	R2408140-004	V (292.401 nm)	0.0000 u	> 100.00	14.1513
	R2408140-004	Y (360.074 nm)	1.03	0.27	532045.38
	R2408140-004	Y_R (360.074 nm)	1.03	0.27	532017.04
	R2408140-004	Zn (213.857 nm)	0.0011	5.36	77.8557
9/9/2024 19:10:18	R2408140-005	Ag (328.068 nm)	-0.0001 u	> 100.00	-115.9373
	R2408140-005	Al (237.312 nm)	-0.0167 u	7.02	-57.0612
	R2408140-005	As (188.980 nm)	0.0026 u	> 100.00	2.8058
	R2408140-005	B (249.772 nm)	0.0586	0.36	2494.6640
	R2408140-005	Ba (230.424 nm)	0.2291	0.22	13909.9701
	R2408140-005	Be (313.107 nm)	0.0000 u	> 100.00	-10.5794
	R2408140-005	Ca (317.933 nm)	61.0608 o	0.26	1893915.2389
	R2408140-005	Cd (214.439 nm)	0.0003	21.35	26.4937
	R2408140-005	Co (230.786 nm)	0.0030	9.53	64.5717
	R2408140-005	Cr (267.716 nm)	0.0007	22.34	44.2203

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408140-005	Cu (327.395 nm)	0.0034	6.46	13.4967
	R2408140-005	Fe (234.350 nm)	3.0617	0.23	70049.7543
	R2408140-005	K (766.491 nm)	1.4636	1.70	2165.8392
	R2408140-005	Mg (279.078 nm)	7.7758	0.28	31400.0759
	R2408140-005	Mn (257.610 nm)	3.8928 o	0.24	1351629.6000
	R2408140-005	Mo (202.032 nm)	0.0007	43.38	13.7739
	R2408140-005	Na (588.995 nm)	5.6147	0.23	92444.4050
	R2408140-005	Ni (230.299 nm)	0.0238	1.29	305.6898
	R2408140-005	Pb (220.353 nm)	0.0008 u	> 100.00	5.4243
	R2408140-005	Sb (217.582 nm)	0.0044	36.69	17.3259
	R2408140-005	Se (196.026 nm)	-0.0004 u	> 100.00	1.5211
	R2408140-005	Si (252.851 nm)	6.4017	0.13	40857.4966
	R2408140-005	Sn (189.925 nm)	0.0014	37.45	6.7261
	R2408140-005	Sr (216.596 nm)	0.1585	0.33	3050.7898
	R2408140-005	Ti (336.122 nm)	0.0004	57.73	135.4927
	R2408140-005	Tl (190.794 nm)	0.0018	79.38	0.1051
	R2408140-005	V (292.401 nm)	0.0001 u	> 100.00	16.8180
	R2408140-005	Y (360.074 nm)	1.01	0.13	518662.88
	R2408140-005	Y_R (360.074 nm)	1.01	0.15	518948.60
	R2408140-005	Zn (213.857 nm)	0.0193	0.42	1159.6962
9/9/2024 19:13:32	R2408140-006	Ag (328.068 nm)	-0.0001 u	> 100.00	-118.2735
	R2408140-006	Al (237.312 nm)	-0.0007 u	> 100.00	-16.2125
	R2408140-006	As (188.980 nm)	-0.0013 u	> 100.00	-3.4501
	R2408140-006	B (249.772 nm)	0.0415	0.13	1778.0674
	R2408140-006	Ba (230.424 nm)	0.0221	0.50	1347.7970
	R2408140-006	Be (313.107 nm)	0.0000 u	> 100.00	-13.8649
	R2408140-006	Ca (317.933 nm)	95.1209 o	0.18	2949731.3903
	R2408140-006	Cd (214.439 nm)	0.0001	41.66	15.2985
	R2408140-006	Co (230.786 nm)	0.0003 u	> 100.00	10.7034
	R2408140-006	Cr (267.716 nm)	0.0018	1.98	111.0605
	R2408140-006	Cu (327.395 nm)	-0.0001 u	> 100.00	-145.7479
	R2408140-006	Fe (234.350 nm)	3.1245	0.14	71485.3253
	R2408140-006	K (766.491 nm)	2.5802	1.00	3536.4325
	R2408140-006	Mg (279.078 nm)	20.2462	0.12	81755.7354
	R2408140-006	Mn (257.610 nm)	0.3458	0.09	120080.9648
	R2408140-006	Mo (202.032 nm)	0.0004 u	91.20	11.2636
	R2408140-006	Na (588.995 nm)	49.3391	0.18	892558.7028
	R2408140-006	Ni (230.299 nm)	0.0160	0.48	206.7272
	R2408140-006	Pb (220.353 nm)	-0.0001 u	> 100.00	1.0339
	R2408140-006	Sb (217.582 nm)	0.0033	18.53	14.8596
	R2408140-006	Se (196.026 nm)	-0.0015 u	> 100.00	0.7067
	R2408140-006	Si (252.851 nm)	4.1164	0.12	26289.8170
	R2408140-006	Sn (189.925 nm)	0.0014	39.93	6.6023
	R2408140-006	Sr (216.596 nm)	0.1853	0.23	3565.9749
	R2408140-006	Ti (336.122 nm)	0.0004	69.22	122.5656
	R2408140-006	Tl (190.794 nm)	0.0006 u	> 100.00	-1.0695
	R2408140-006	V (292.401 nm)	0.0001	69.20	19.5035
	R2408140-006	Y (360.074 nm)	0.97	0.24	501778.84
	R2408140-006	Y_R (360.074 nm)	0.97	0.23	502160.04
	R2408140-006	Zn (213.857 nm)	0.0014	1.23	99.4273
9/9/2024 19:16:46	R2408140-007	Ag (328.068 nm)	-0.0001 u	96.73	-117.0735
	R2408140-007	Al (237.312 nm)	0.0085	7.47	7.1817
	R2408140-007	As (188.980 nm)	-0.0003 u	> 100.00	-1.8903
	R2408140-007	B (249.772 nm)	0.0017	4.20	113.0443
	R2408140-007	Ba (230.424 nm)	0.0001	16.37	14.0803
	R2408140-007	Be (313.107 nm)	0.0000 u	> 100.00	-9.8009
	R2408140-007	Ca (317.933 nm)	0.0315	1.63	2089.7522

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408140-007	Cd (214.439 nm)	0.0001	87.08	13.9331
	R2408140-007	Co (230.786 nm)	-0.0001 u	> 100.00	3.4176
	R2408140-007	Cr (267.716 nm)	0.0008	4.96	51.2172
	R2408140-007	Cu (327.395 nm)	0.0000 u	> 100.00	-141.0633
	R2408140-007	Fe (234.350 nm)	0.0155	8.09	405.9563
	R2408140-007	K (766.491 nm)	0.0373	> 100.00	415.2320
	R2408140-007	Mg (279.078 nm)	0.0012	14.48	5.8243
	R2408140-007	Mn (257.610 nm)	0.0005	2.36	188.8386
	R2408140-007	Mo (202.032 nm)	0.0001	51.04	7.7992
	R2408140-007	Na (588.995 nm)	0.3351	1.63	-4167.5232
	R2408140-007	Ni (230.299 nm)	-0.0001 u	60.68	1.3524
	R2408140-007	Pb (220.353 nm)	-0.0003 u	> 100.00	0.0073
	R2408140-007	Sb (217.582 nm)	0.0046	58.07	17.8357
	R2408140-007	Se (196.026 nm)	0.0025	29.59	3.8159
	R2408140-007	Si (252.851 nm)	0.0152	15.52	147.1356
	R2408140-007	Sn (189.925 nm)	0.0017	13.64	7.3822
	R2408140-007	Sr (216.596 nm)	0.0002	62.11	9.5943
	R2408140-007	Ti (336.122 nm)	0.0005	32.55	148.9123
	R2408140-007	Tl (190.794 nm)	0.0004 u	> 100.00	-1.2909
	R2408140-007	V (292.401 nm)	-0.0002 u	43.45	8.7156
	R2408140-007	Y (360.074 nm)	1.03	0.47	532638.78
	R2408140-007	Y_R (360.074 nm)	1.03	0.47	532801.68
	R2408140-007	Zn (213.857 nm)	0.0018	3.48	121.8044
9/9/2024 19:20:00	R2408140-008	Ag (328.068 nm)	-0.0001 u	89.28	-115.2795
	R2408140-008	Al (237.312 nm)	0.0039	41.39	-4.6183
	R2408140-008	As (188.980 nm)	0.0004 u	> 100.00	-0.7412
	R2408140-008	B (249.772 nm)	0.0015	13.13	104.1019
	R2408140-008	Ba (230.424 nm)	0.0003	35.58	23.9490
	R2408140-008	Be (313.107 nm)	0.0000	7.97	-6.7827
	R2408140-008	Ca (317.933 nm)	0.0125	1.11	1502.0017
	R2408140-008	Cd (214.439 nm)	0.0001	81.70	12.7062
	R2408140-008	Co (230.786 nm)	0.0000 u	> 100.00	4.1763
	R2408140-008	Cr (267.716 nm)	0.0005	15.23	32.4312
	R2408140-008	Cu (327.395 nm)	0.0001	68.55	-133.5262
	R2408140-008	Fe (234.350 nm)	0.0054	8.44	175.1788
	R2408140-008	K (766.491 nm)	0.0915	12.12	481.7349
	R2408140-008	Mg (279.078 nm)	0.0006	84.74	3.5207
	R2408140-008	Mn (257.610 nm)	0.0001	18.39	46.9433
	R2408140-008	Mo (202.032 nm)	0.0003 u	> 100.00	9.9481
	R2408140-008	Na (588.995 nm)	0.2799	2.02	-5175.9971
	R2408140-008	Ni (230.299 nm)	-0.0003 u	63.45	-0.7380
	R2408140-008	Pb (220.353 nm)	-0.0001 u	> 100.00	0.7679
	R2408140-008	Sb (217.582 nm)	0.0064	22.14	21.9201
	R2408140-008	Se (196.026 nm)	-0.0008 u	> 100.00	1.2175
	R2408140-008	Si (252.851 nm)	0.0134	18.26	135.6006
	R2408140-008	Sn (189.925 nm)	0.0014	16.90	6.6718
	R2408140-008	Sr (216.596 nm)	0.0000 u	> 100.00	5.5858
	R2408140-008	Ti (336.122 nm)	0.0004	35.33	132.6841
	R2408140-008	Tl (190.794 nm)	0.0006 u	> 100.00	-1.0434
	R2408140-008	V (292.401 nm)	-0.0001 u	94.66	10.5705
	R2408140-008	Y (360.074 nm)	1.03	0.32	531366.98
	R2408140-008	Y_R (360.074 nm)	1.03	0.32	531282.99
	R2408140-008	Zn (213.857 nm)	0.0013	6.25	91.9999
9/9/2024 19:23:14	R2408140-009	Ag (328.068 nm)	-0.0001 u	95.91	-117.1079
	R2408140-009	Al (237.312 nm)	0.0029	28.62	-7.0337
	R2408140-009	As (188.980 nm)	0.0001 u	> 100.00	-1.1386
	R2408140-009	B (249.772 nm)	0.0235	0.75	1024.8716

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408140-009	Ba (230.424 nm)	0.0312	0.17	1900.7884
	R2408140-009	Be (313.107 nm)	0.0000 u	> 100.00	-13.1856
	R2408140-009	Ca (317.933 nm)	66.7293 o	0.10	2069630.2002
	R2408140-009	Cd (214.439 nm)	0.0000	39.22	12.2681
	R2408140-009	Co (230.786 nm)	0.0000 u	> 100.00	4.8395
	R2408140-009	Cr (267.716 nm)	0.0006	14.25	38.4955
	R2408140-009	Cu (327.395 nm)	0.0027	1.75	-19.2707
	R2408140-009	Fe (234.350 nm)	0.0040	14.60	141.3291
	R2408140-009	K (766.491 nm)	1.2034	0.84	1846.5036
	R2408140-009	Mg (279.078 nm)	12.0619	0.10	48707.1654
	R2408140-009	Mn (257.610 nm)	0.0095	0.08	3307.5068
	R2408140-009	Mo (202.032 nm)	0.0001 u	> 100.00	7.5410
	R2408140-009	Na (588.995 nm)	23.8943	0.32	426942.9868
	R2408140-009	Ni (230.299 nm)	0.0110	2.78	142.8436
	R2408140-009	Pb (220.353 nm)	-0.0002 u	> 100.00	0.5857
	R2408140-009	Sb (217.582 nm)	0.0047	7.96	17.8994
	R2408140-009	Se (196.026 nm)	-0.0021 u	40.19	0.2423
	R2408140-009	Si (252.851 nm)	3.4853	0.08	22267.4067
	R2408140-009	Sn (189.925 nm)	0.0011	49.76	5.8381
	R2408140-009	Sr (216.596 nm)	0.1178	0.10	2268.4305
	R2408140-009	Ti (336.122 nm)	0.0002	78.74	105.7411
	R2408140-009	Tl (190.794 nm)	-0.0008 u	> 100.00	-2.3725
	R2408140-009	V (292.401 nm)	0.0001 u	> 100.00	19.5418
	R2408140-009	Y (360.074 nm)	0.99	0.35	508593.13
	R2408140-009	Y_R (360.074 nm)	0.99	0.36	508674.16
	R2408140-009	Zn (213.857 nm)	0.0102	0.45	619.0478
9/9/2024 19:26:28	Continuing Calibration Verification	Ag (328.068 nm)	0.4980	0.09	27825.4733
	Continuing Calibration Verification	Al (237.312 nm)	9.5811	0.13	24373.7999
	Continuing Calibration Verification	As (188.980 nm)	0.9968	0.38	1596.9532
	Continuing Calibration Verification	B (249.772 nm)	2.2905	0.07	95839.1856
	Continuing Calibration Verification	Ba (230.424 nm)	9.7902	0.48	594272.1449
	Continuing Calibration Verification	Be (313.107 nm)	0.2452	0.15	291853.4758
	Continuing Calibration Verification	Ca (317.933 nm)	25.8723	0.15	803121.1390
	Continuing Calibration Verification	Cd (214.439 nm)	0.5088	0.17	30541.7379
	Continuing Calibration Verification	Co (230.786 nm)	2.4952	0.11	50250.1139
	Continuing Calibration Verification	Cr (267.716 nm)	0.5107	0.18	29720.6408
	Continuing Calibration Verification	Cu (327.395 nm)	1.1881	0.08	53018.1090
	Continuing Calibration Verification	Fe (234.350 nm)	4.9193	0.12	112519.8169
	Continuing Calibration Verification	K (766.491 nm)	24.4711	0.18	30406.5344
	Continuing Calibration Verification	Mg (279.078 nm)	25.8268	0.16	104290.3920
	Continuing Calibration Verification	Mn (257.610 nm)	0.7292	0.13	253200.6564
	Continuing Calibration Verification	Mo (202.032 nm)	2.5537	0.23	27385.2009
	Continuing Calibration Verification	Na (588.995 nm)	23.8188	0.37	425562.4742
	Continuing Calibration Verification	Ni (230.299 nm)	2.0160	0.23	25626.8228
	Continuing Calibration Verification	Pb (220.353 nm)	0.5062	0.39	2553.0398
	Continuing Calibration Verification	Sb (217.582 nm)	4.9134	0.06	11274.6903
	Continuing Calibration Verification	Se (196.026 nm)	0.4861	1.09	382.1734
	Continuing Calibration Verification	Si (252.851 nm)	9.7671	0.63	62310.1038
	Continuing Calibration Verification	Sn (189.925 nm)	5.0734	0.15	13264.3335
	Continuing Calibration Verification	Sr (216.596 nm)	2.5365	0.14	48727.3749
	Continuing Calibration Verification	Ti (336.122 nm)	2.5228	0.21	385890.6522
	Continuing Calibration Verification	Tl (190.794 nm)	0.9972	0.33	953.8501
	Continuing Calibration Verification	V (292.401 nm)	2.5164	0.17	92135.9912
	Continuing Calibration Verification	Y (360.074 nm)	0.98	0.38	504834.11
	Continuing Calibration Verification	Y_R (360.074 nm)	0.98	0.38	504969.10
	Continuing Calibration Verification	Zn (213.857 nm)	0.9836	0.39	58376.6207
9/9/2024 19:29:41	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u	97.86	-110.9968

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Al (237.312 nm)	0.0029	26.13	-7.0004
	Continuing Calibration Blank	As (188.980 nm)	-0.0007 u	> 100.00	-2.5522
	Continuing Calibration Blank	B (249.772 nm)	0.0018	14.71	117.4853
	Continuing Calibration Blank	Ba (230.424 nm)	0.0008	7.97	53.6438
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	45.01	-10.2685
	Continuing Calibration Blank	Ca (317.933 nm)	0.0038	10.88	1232.3223
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	11.6205
	Continuing Calibration Blank	Co (230.786 nm)	0.0003	16.27	10.7896
	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u	> 100.00	6.4967
	Continuing Calibration Blank	Cu (327.395 nm)	-0.0002 u	83.76	-146.7139
	Continuing Calibration Blank	Fe (234.350 nm)	0.0047	15.91	157.7294
	Continuing Calibration Blank	K (766.491 nm)	0.0572	3.42	439.5788
	Continuing Calibration Blank	Mg (279.078 nm)	0.0016	67.46	7.4167
	Continuing Calibration Blank	Mn (257.610 nm)	0.0001	6.13	43.9173
	Continuing Calibration Blank	Mo (202.032 nm)	0.0067	13.07	78.3111
	Continuing Calibration Blank	Na (588.995 nm)	0.1760	0.67	-7078.0353
	Continuing Calibration Blank	Ni (230.299 nm)	0.0002	67.68	5.8563
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0001 u	> 100.00	0.9393
	Continuing Calibration Blank	Sb (217.582 nm)	0.0120	21.87	34.7650
	Continuing Calibration Blank	Se (196.026 nm)	0.0006	55.57	2.3618
	Continuing Calibration Blank	Si (252.851 nm)	0.0089	10.45	106.8723
	Continuing Calibration Blank	Sn (189.925 nm)	0.0018	43.11	7.6747
	Continuing Calibration Blank	Sr (216.596 nm)	0.0000 u	> 100.00	6.2679
	Continuing Calibration Blank	Ti (336.122 nm)	0.0070	23.85	1142.0363
	Continuing Calibration Blank	Tl (190.794 nm)	0.0012 u	> 100.00	-0.4857
	Continuing Calibration Blank	V (292.401 nm)	0.0002	25.83	22.3633
	Continuing Calibration Blank	Y (360.074 nm)	1.02	0.12	526355.95
	Continuing Calibration Blank	Y_R (360.074 nm)	1.02	0.12	526484.21
	Continuing Calibration Blank	Zn (213.857 nm)	0.0000 u	> 100.00	16.9060
9/9/2024 19:32:56	R2408140-010	Ag (328.068 nm)	0.0000 u	> 100.00	-113.5391
	R2408140-010	Al (237.312 nm)	0.0078	22.61	5.2655
	R2408140-010	As (188.980 nm)	0.0030	65.25	3.5271
	R2408140-010	B (249.772 nm)	0.0420	0.34	1798.7456
	R2408140-010	Ba (230.424 nm)	0.1060	0.13	6440.5432
	R2408140-010	Be (313.107 nm)	0.0000 u	96.98	-9.4774
	R2408140-010	Ca (317.933 nm)	45.9969	0.16	1426955.4034
	R2408140-010	Cd (214.439 nm)	0.0001	36.03	14.8680
	R2408140-010	Co (230.786 nm)	0.0060	2.16	125.4030
	R2408140-010	Cr (267.716 nm)	0.0010	3.35	64.3660
	R2408140-010	Cu (327.395 nm)	0.0002	24.43	-128.9840
	R2408140-010	Fe (234.350 nm)	0.6915	0.19	15859.6541
	R2408140-010	K (766.491 nm)	1.3569	1.71	2034.9674
	R2408140-010	Mg (279.078 nm)	11.4273	0.12	46144.6344
	R2408140-010	Mn (257.610 nm)	3.1392 o	0.16	1089960.1036
	R2408140-010	Mo (202.032 nm)	0.0018	18.48	26.2091
	R2408140-010	Na (588.995 nm)	5.3755	0.07	88068.4042
	R2408140-010	Ni (230.299 nm)	0.0183	1.95	235.1316
	R2408140-010	Pb (220.353 nm)	0.0004	72.44	3.3168
	R2408140-010	Sb (217.582 nm)	0.0684	24.41	164.0172
	R2408140-010	Se (196.026 nm)	0.0006 u	> 100.00	2.3416
	R2408140-010	Si (252.851 nm)	3.2940	0.13	21047.8408
	R2408140-010	Sn (189.925 nm)	0.0022	27.59	8.8530
	R2408140-010	Sr (216.596 nm)	0.1412	0.15	2718.1599
	R2408140-010	Ti (336.122 nm)	0.0032	25.37	551.7750
	R2408140-010	Tl (190.794 nm)	0.0012 u	> 100.00	-0.4608
	R2408140-010	V (292.401 nm)	0.0001 u	> 100.00	19.1196
	R2408140-010	Y (360.074 nm)	1.00	0.33	517150.66

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408140-010	Y_R (360.074 nm)	1.00	0.33	517276.50
	R2408140-010	Zn (213.857 nm)	0.0096	0.71	583.3616
9/9/2024 19:36:10	R2408140-011	Ag (328.068 nm)	0.0000 u	> 100.00	-112.0463
	R2408140-011	Al (237.312 nm)	-0.0014 u	40.48	-17.9871
	R2408140-011	As (188.980 nm)	0.0064	14.18	8.9080
	R2408140-011	B (249.772 nm)	0.0961	0.04	4062.4704
	R2408140-011	Ba (230.424 nm)	0.1382	0.10	8396.6259
	R2408140-011	Be (313.107 nm)	0.0000 u	> 100.00	-10.6481
	R2408140-011	Ca (317.933 nm)	179.8137 o	0.20	5575095.3629
	R2408140-011	Cd (214.439 nm)	0.0001	87.84	13.3104
	R2408140-011	Co (230.786 nm)	-0.0002 u	32.27	1.5822
	R2408140-011	Cr (267.716 nm)	0.0006	11.19	37.6808
	R2408140-011	Cu (327.395 nm)	-0.0002 u	> 100.00	-147.4260
	R2408140-011	Fe (234.350 nm)	0.3098	0.22	7133.3257
	R2408140-011	K (766.491 nm)	2.2709	0.54	3156.8677
	R2408140-011	Mg (279.078 nm)	27.1374	0.03	109582.3749
	R2408140-011	Mn (257.610 nm)	0.8108	0.05	281538.9468
	R2408140-011	Mo (202.032 nm)	0.0011	47.82	18.2549
	R2408140-011	Na (588.995 nm)	39.8857	0.45	719571.3362
	R2408140-011	Ni (230.299 nm)	0.0176	1.92	226.4035
	R2408140-011	Pb (220.353 nm)	-0.0007 u	50.60	-1.8878
	R2408140-011	Sb (217.582 nm)	0.0081	3.85	25.6863
	R2408140-011	Se (196.026 nm)	-0.0014 u	> 100.00	0.7551
	R2408140-011	Si (252.851 nm)	5.0722	0.14	32382.9304
	R2408140-011	Sn (189.925 nm)	0.0014	32.08	6.7575
	R2408140-011	Sr (216.596 nm)	0.2553	0.07	4909.4740
	R2408140-011	Ti (336.122 nm)	0.0009	48.60	202.6588
	R2408140-011	Tl (190.794 nm)	0.0026	19.11	0.8135
	R2408140-011	V (292.401 nm)	0.0001	38.98	16.8988
	R2408140-011	Y (360.074 nm)	0.97	0.35	500611.81
	R2408140-011	Y_R (360.074 nm)	0.97	0.35	500773.28
	R2408140-011	Zn (213.857 nm)	0.0013	2.77	94.1263
9/9/2024 19:39:23	R2408140-012	Ag (328.068 nm)	0.0002	27.57	-103.7021
	R2408140-012	Al (237.312 nm)	-0.0213 u	14.32	-68.6506
	R2408140-012	As (188.980 nm)	0.1003	1.67	159.4512
	R2408140-012	B (249.772 nm)	0.1735	0.12	7296.3545
	R2408140-012	Ba (230.424 nm)	0.3231	0.13	19615.8235
	R2408140-012	Be (313.107 nm)	0.0000 u	> 100.00	-15.2893
	R2408140-012	Ca (317.933 nm)	169.2850 o	0.17	5248719.9530
	R2408140-012	Cd (214.439 nm)	0.0012	7.02	82.6497
	R2408140-012	Co (230.786 nm)	0.0038	3.85	81.9405
	R2408140-012	Cr (267.716 nm)	0.0007	14.47	45.4579
	R2408140-012	Cu (327.395 nm)	0.0000 u	> 100.00	-141.2496
	R2408140-012	Fe (234.350 nm)	59.2820 o	0.27	1355405.5801
	R2408140-012	K (766.491 nm)	2.9203	1.77	3953.9195
	R2408140-012	Mg (279.078 nm)	32.0235	0.18	129312.8175
	R2408140-012	Mn (257.610 nm)	4.1852 o	0.17	1453136.2857
	R2408140-012	Mo (202.032 nm)	0.0002	60.67	8.4548
	R2408140-012	Na (588.995 nm)	37.0479	0.21	667642.2318
	R2408140-012	Ni (230.299 nm)	0.0331	1.21	423.3406
	R2408140-012	Pb (220.353 nm)	0.0013	14.26	7.9981
	R2408140-012	Sb (217.582 nm)	0.0009 u	> 100.00	9.2282
	R2408140-012	Se (196.026 nm)	-0.0002 u	> 100.00	1.6699
	R2408140-012	Si (252.851 nm)	7.3928	0.04	47175.4896
	R2408140-012	Sn (189.925 nm)	0.0013	44.49	6.5506
	R2408140-012	Sr (216.596 nm)	0.3317	0.31	6377.2527
	R2408140-012	Ti (336.122 nm)	0.0006	41.44	161.0713

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408140-012	Tl (190.794 nm)	0.0023	25.44	0.5946
	R2408140-012	V (292.401 nm)	-0.0001 u	> 100.00	9.8932
	R2408140-012	Y (360.074 nm)	0.96	0.29	496447.87
	R2408140-012	Y_R (360.074 nm)	0.96	0.28	496625.14
	R2408140-012	Zn (213.857 nm)	0.0083	0.13	507.4097
9/9/2024 19:42:37	R2408140-013	Ag (328.068 nm)	0.0001 u	> 100.00	-107.3093
	R2408140-013	Al (237.312 nm)	-0.0218 u	7.85	-70.0122
	R2408140-013	As (188.980 nm)	0.1016	1.98	161.4924
	R2408140-013	B (249.772 nm)	0.1751	0.13	7363.1568
	R2408140-013	Ba (230.424 nm)	0.3267	0.19	19838.6532
	R2408140-013	Be (313.107 nm)	0.0000 u	> 100.00	-17.1913
	R2408140-013	Ca (317.933 nm)	171.0979 o	0.16	5304917.4372
	R2408140-013	Cd (214.439 nm)	0.0012	4.83	83.7593
	R2408140-013	Co (230.786 nm)	0.0039	5.76	84.0775
	R2408140-013	Cr (267.716 nm)	0.0005	12.98	33.5527
	R2408140-013	Cu (327.395 nm)	-0.0001 u	84.08	-143.8386
	R2408140-013	Fe (234.350 nm)	60.3059 o	0.18	1378814.3596
	R2408140-013	K (766.491 nm)	2.9821	0.68	4029.8086
	R2408140-013	Mg (279.078 nm)	32.4363	0.13	130979.5745
	R2408140-013	Mn (257.610 nm)	4.2429 o	0.16	1473199.2838
	R2408140-013	Mo (202.032 nm)	0.0001 u	> 100.00	7.7579
	R2408140-013	Na (588.995 nm)	37.2384	0.27	671127.6360
	R2408140-013	Ni (230.299 nm)	0.0333	1.25	426.0945
	R2408140-013	Pb (220.353 nm)	0.0012	41.91	7.5624
	R2408140-013	Sb (217.582 nm)	0.0009	61.29	9.3591
	R2408140-013	Se (196.026 nm)	-0.0041 u	21.50	-1.3305
	R2408140-013	Si (252.851 nm)	7.4511	0.04	47547.0619
	R2408140-013	Sn (189.925 nm)	0.0012 u	> 100.00	6.0869
	R2408140-013	Sr (216.596 nm)	0.3355	0.22	6450.0725
	R2408140-013	Ti (336.122 nm)	0.0004	68.17	123.5965
	R2408140-013	Tl (190.794 nm)	0.0011 u	> 100.00	-0.6067
	R2408140-013	V (292.401 nm)	0.0006	31.65	35.4450
	R2408140-013	Y (360.074 nm)	0.96	0.31	494490.13
	R2408140-013	Y_R (360.074 nm)	0.96	0.31	494675.59
	R2408140-013	Zn (213.857 nm)	0.0078	0.31	476.5450
9/9/2024 19:45:51	R2408140-013L 5X	Ag (328.068 nm)	0.0001 u	> 100.00	-108.5699
	R2408140-013L 5X	Al (237.312 nm)	-0.0022 u	32.51	-20.1105
	R2408140-013L 5X	As (188.980 nm)	0.0186	3.01	28.4894
	R2408140-013L 5X	B (249.772 nm)	0.0354	0.28	1522.4319
	R2408140-013L 5X	Ba (230.424 nm)	0.0665	0.09	4042.9889
	R2408140-013L 5X	Be (313.107 nm)	0.0000 u	> 100.00	-20.0842
	R2408140-013L 5X	Ca (317.933 nm)	36.2782	0.14	1125687.5008
	R2408140-013L 5X	Cd (214.439 nm)	0.0002	43.96	20.8788
	R2408140-013L 5X	Co (230.786 nm)	0.0007	19.56	18.9779
	R2408140-013L 5X	Cr (267.716 nm)	0.0002	14.32	13.4803
	R2408140-013L 5X	Cu (327.395 nm)	0.0000 u	> 100.00	-141.6725
	R2408140-013L 5X	Fe (234.350 nm)	12.6480 o	0.17	289220.8464
	R2408140-013L 5X	K (766.491 nm)	0.5650	3.27	1062.9470
	R2408140-013L 5X	Mg (279.078 nm)	6.6783	0.11	26968.2541
	R2408140-013L 5X	Mn (257.610 nm)	0.8846	0.08	307169.9804
	R2408140-013L 5X	Mo (202.032 nm)	0.0002	65.53	9.1790
	R2408140-013L 5X	Na (588.995 nm)	7.3840	0.20	124820.4850
	R2408140-013L 5X	Ni (230.299 nm)	0.0066	3.55	87.2875
	R2408140-013L 5X	Pb (220.353 nm)	0.0004 u	> 100.00	3.2689
	R2408140-013L 5X	Sb (217.582 nm)	0.0002 u	> 100.00	7.7736
	R2408140-013L 5X	Se (196.026 nm)	-0.0041 u	79.04	-1.3543
	R2408140-013L 5X	Si (252.851 nm)	1.5246	0.29	9768.8534

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408140-013L 5X	Sn (189.925 nm)	0.0000 u	> 100.00	3.0538
	R2408140-013L 5X	Sr (216.596 nm)	0.0692	0.52	1335.3597
	R2408140-013L 5X	Ti (336.122 nm)	0.0004	52.50	121.8665
	R2408140-013L 5X	Tl (190.794 nm)	0.0008 u	> 100.00	-0.9074
	R2408140-013L 5X	V (292.401 nm)	0.0002	71.93	21.4772
	R2408140-013L 5X	Y (360.074 nm)	1.00	0.11	516079.70
	R2408140-013L 5X	Y_R (360.074 nm)	1.00	0.11	516242.92
	R2408140-013L 5X	Zn (213.857 nm)	0.0015	3.17	104.8922
9/9/2024 19:49:04	R2408146-082	Ag (328.068 nm)	0.0002	> 100.00	-102.2713
	R2408146-082	Al (237.312 nm)	0.2591	1.36	645.1785
	R2408146-082	As (188.980 nm)	0.3633	1.01	581.1511
	R2408146-082	B (249.772 nm)	0.8493	0.02	35562.9255
	R2408146-082	Ba (230.424 nm)	0.2654	0.04	16118.6293
	R2408146-082	Be (313.107 nm)	0.0000	19.35	14.5725
	R2408146-082	Ca (317.933 nm)	376.1883 o	0.10	11662440.5788
	R2408146-082	Cd (214.439 nm)	0.0011	7.90	74.7590
	R2408146-082	Co (230.786 nm)	0.0214	1.12	435.5628
	R2408146-082	Cr (267.716 nm)	0.8316	0.03	48394.1836
	R2408146-082	Cu (327.395 nm)	0.0438	0.19	1818.1441
	R2408146-082	Fe (234.350 nm)	11.9189 o	0.03	272551.4607
	R2408146-082	K (766.491 nm)	59.4857 o	0.35	73385.1869
	R2408146-082	Mg (279.078 nm)	188.1177 o	0.04	759624.7651
	R2408146-082	Mn (257.610 nm)	0.3768	0.01	130824.2492
	R2408146-082	Mo (202.032 nm)	0.0140	2.47	157.2413
	R2408146-082	Na (588.995 nm)	645.2684 o	0.93	11797484.6928
	R2408146-082	Ni (230.299 nm)	0.6172	0.04	7847.7954
	R2408146-082	Pb (220.353 nm)	0.0024	22.54	13.3414
	R2408146-082	Sb (217.582 nm)	0.0023	30.37	12.4927
	R2408146-082	Se (196.026 nm)	-0.0069 u	61.28	-3.5534
	R2408146-082	Si (252.851 nm)	6.1111	0.20	39004.9418
	R2408146-082	Sn (189.925 nm)	0.0012 u	86.99	6.0943
	R2408146-082	Sr (216.596 nm)	46.5047 o	0.33	893259.6435
	R2408146-082	Ti (336.122 nm)	0.0048	10.20	804.6399
	R2408146-082	Tl (190.794 nm)	0.0014	> 100.00	-0.3005
	R2408146-082	V (292.401 nm)	0.0024	6.39	100.5758
	R2408146-082	Y (360.074 nm)	0.85	0.36	438226.27
	R2408146-082	Y_R (360.074 nm)	0.85	0.35	438486.22
	R2408146-082	Zn (213.857 nm)	0.3171	0.14	18832.1188
9/9/2024 19:52:18	R2408421-001	Ag (328.068 nm)	0.0000 u	> 100.00	-113.5655
	R2408421-001	Al (237.312 nm)	0.3969	0.43	995.8480
	R2408421-001	As (188.980 nm)	0.0039	53.62	4.9301
	R2408421-001	B (249.772 nm)	0.1040	0.36	4390.6688
	R2408421-001	Ba (230.424 nm)	0.0515	0.46	3130.1184
	R2408421-001	Be (313.107 nm)	0.0000	15.77	-0.3876
	R2408421-001	Ca (317.933 nm)	71.5924 o	0.03	2220382.4983
	R2408421-001	Cd (214.439 nm)	0.0001	33.55	16.0026
	R2408421-001	Co (230.786 nm)	0.0002 u	> 100.00	8.7102
	R2408421-001	Cr (267.716 nm)	0.0280	0.22	1630.6492
	R2408421-001	Cu (327.395 nm)	0.0025	3.61	-27.6944
	R2408421-001	Fe (234.350 nm)	0.6901	0.40	15828.5948
	R2408421-001	K (766.491 nm)	4.7569	0.44	6208.2361
	R2408421-001	Mg (279.078 nm)	10.4268	0.03	42104.8443
	R2408421-001	Mn (257.610 nm)	0.1344	0.09	46688.2783
	R2408421-001	Mo (202.032 nm)	0.0025	2.74	33.0432
	R2408421-001	Na (588.995 nm)	53.0375	0.22	960236.0742
	R2408421-001	Ni (230.299 nm)	0.0057	9.75	75.0011
	R2408421-001	Pb (220.353 nm)	0.0006	10.14	4.4184

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408421-001	Sb (217.582 nm)	0.0031	29.59	14.2965
	R2408421-001	Se (196.026 nm)	0.0008 u	> 100.00	2.4893
	R2408421-001	Si (252.851 nm)	1.3235	0.04	8486.9272
	R2408421-001	Sn (189.925 nm)	0.0007	83.82	4.9249
	R2408421-001	Sr (216.596 nm)	0.2497	0.10	4801.7716
	R2408421-001	Ti (336.122 nm)	0.0057	6.97	945.1725
	R2408421-001	Tl (190.794 nm)	-0.0004 u	> 100.00	-2.0547
	R2408421-001	V (292.401 nm)	0.0011	13.33	53.0853
	R2408421-001	Y (360.074 nm)	0.97	0.38	500683.72
	R2408421-001	Y_R (360.074 nm)	0.97	0.38	500894.04
	R2408421-001	Zn (213.857 nm)	0.0051	1.08	316.3050
9/9/2024 19:55:32	R2408421-001S	Ag (328.068 nm)	0.0496	0.31	2670.6738
	R2408421-001S	Al (237.312 nm)	2.2860	0.20	5804.4421
	R2408421-001S	As (188.980 nm)	0.0405	6.67	63.5820
	R2408421-001S	B (249.772 nm)	1.0363	0.09	43383.4983
	R2408421-001S	Ba (230.424 nm)	1.9907	0.24	120841.0221
	R2408421-001S	Be (313.107 nm)	0.0499	0.09	59406.3535
	R2408421-001S	Ca (317.933 nm)	72.2927 o	0.16	2242090.0668
	R2408421-001S	Cd (214.439 nm)	0.0507	0.09	3050.8999
	R2408421-001S	Co (230.786 nm)	0.4993	0.02	10058.9484
	R2408421-001S	Cr (267.716 nm)	0.2280	0.15	13270.1533
	R2408421-001S	Cu (327.395 nm)	0.2491	0.16	11003.5474
	R2408421-001S	Fe (234.350 nm)	1.6569	0.17	37932.0996
	R2408421-001S	K (766.491 nm)	24.9196	0.36	30957.0221
	R2408421-001S	Mg (279.078 nm)	12.2368	0.15	49413.4477
	R2408421-001S	Mn (257.610 nm)	0.6137	0.15	213105.6264
	R2408421-001S	Mo (202.032 nm)	0.4962	0.81	5326.2171
	R2408421-001S	Na (588.995 nm)	70.8016 o	0.14	1285301.6525
	R2408421-001S	Ni (230.299 nm)	0.4964	0.15	6311.7456
	R2408421-001S	Pb (220.353 nm)	0.5090	0.14	2567.4490
	R2408421-001S	Sb (217.582 nm)	0.5068	0.81	1169.4143
	R2408421-001S	Se (196.026 nm)	1.0202	0.63	800.1365
	R2408421-001S	Si (252.851 nm)	1.6046	0.26	10278.5580
	R2408421-001S	Sn (189.925 nm)	4.9624	0.07	12974.2224
	R2408421-001S	Sr (216.596 nm)	2.2136	0.17	42525.1140
	R2408421-001S	Ti (336.122 nm)	0.5002	0.30	76562.3095
	R2408421-001S	Tl (190.794 nm)	1.9447	0.08	1861.7662
	R2408421-001S	V (292.401 nm)	0.4989	0.13	18278.3025
	R2408421-001S	Y (360.074 nm)	0.98	0.23	505015.70
	R2408421-001S	Y_R (360.074 nm)	0.98	0.23	505232.11
	R2408421-001S	Zn (213.857 nm)	0.5038	0.06	29907.0150
9/9/2024 19:58:45	R2408421-001SD	Ag (328.068 nm)	0.0498	0.13	2681.3334
	R2408421-001SD	Al (237.312 nm)	2.2388	0.21	5684.3567
	R2408421-001SD	As (188.980 nm)	0.0425	1.76	66.8601
	R2408421-001SD	B (249.772 nm)	1.0369	0.04	43409.0166
	R2408421-001SD	Ba (230.424 nm)	1.9880	0.18	120680.3791
	R2408421-001SD	Be (313.107 nm)	0.0499	0.04	59402.7188
	R2408421-001SD	Ca (317.933 nm)	72.0926 o	0.06	2235885.9162
	R2408421-001SD	Cd (214.439 nm)	0.0508	0.24	3057.3275
	R2408421-001SD	Co (230.786 nm)	0.5001	0.06	10076.3034
	R2408421-001SD	Cr (267.716 nm)	0.2281	0.10	13275.1258
	R2408421-001SD	Cu (327.395 nm)	0.2489	0.07	10998.5121
	R2408421-001SD	Fe (234.350 nm)	1.6439	0.05	37635.4276
	R2408421-001SD	K (766.491 nm)	24.9171	0.27	30953.9142
	R2408421-001SD	Mg (279.078 nm)	12.1940	0.06	49240.9381
	R2408421-001SD	Mn (257.610 nm)	0.6136	0.03	213050.7832
	R2408421-001SD	Mo (202.032 nm)	0.5001	0.46	5367.7793

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408421-001SD	Na (588.995 nm)	70.6320 o	0.34	1282198.1544
	R2408421-001SD	Ni (230.299 nm)	0.4958	0.25	6305.2095
	R2408421-001SD	Pb (220.353 nm)	0.5079	0.19	2561.8573
	R2408421-001SD	Sb (217.582 nm)	0.5081	0.27	1172.4766
	R2408421-001SD	Se (196.026 nm)	1.0339	0.40	810.8318
	R2408421-001SD	Si (252.851 nm)	1.5243	0.12	9767.1347
	R2408421-001SD	Sn (189.925 nm)	4.9716	0.06	12998.4255
	R2408421-001SD	Sr (216.596 nm)	2.2138	0.22	42528.0003
	R2408421-001SD	Ti (336.122 nm)	0.5011	0.17	76699.8289
	R2408421-001SD	Tl (190.794 nm)	1.9427	0.23	1859.9180
	R2408421-001SD	V (292.401 nm)	0.4999	0.07	18313.5209
	R2408421-001SD	Y (360.074 nm)	0.98	0.47	505326.84
	R2408421-001SD	Y_R (360.074 nm)	0.98	0.47	505574.62
	R2408421-001SD	Zn (213.857 nm)	0.5041	0.07	29926.7379
9/9/2024 20:01:59	R2408421-001A	Ag (328.068 nm)	0.0488	0.45	2627.9876
	R2408421-001A	Al (237.312 nm)	2.2954	0.26	5828.3513
	R2408421-001A	As (188.980 nm)	0.0418	4.82	65.6424
	R2408421-001A	B (249.772 nm)	1.0223	0.03	42796.6389
	R2408421-001A	Ba (230.424 nm)	1.9545	0.18	118646.2646
	R2408421-001A	Be (313.107 nm)	0.0491	0.05	58398.5487
	R2408421-001A	Ca (317.933 nm)	69.8383 o	0.13	2166006.9357
	R2408421-001A	Cd (214.439 nm)	0.0500	0.07	3009.8761
	R2408421-001A	Co (230.786 nm)	0.4919	0.33	9909.7700
	R2408421-001A	Cr (267.716 nm)	0.2239	0.11	13031.8203
	R2408421-001A	Cu (327.395 nm)	0.2446	0.14	10804.1923
	R2408421-001A	Fe (234.350 nm)	1.6232	0.13	37161.9519
	R2408421-001A	K (766.491 nm)	24.4787	0.13	30415.8293
	R2408421-001A	Mg (279.078 nm)	11.8351	0.03	47791.4088
	R2408421-001A	Mn (257.610 nm)	0.6013	0.10	208785.4071
	R2408421-001A	Mo (202.032 nm)	0.4839	0.70	5194.2964
	R2408421-001A	Na (588.995 nm)	68.5344 o	0.23	1243814.5274
	R2408421-001A	Ni (230.299 nm)	0.4890	0.15	6218.6004
	R2408421-001A	Pb (220.353 nm)	0.5009	0.16	2526.6440
	R2408421-001A	Sb (217.582 nm)	0.4840	0.43	1117.0559
	R2408421-001A	Se (196.026 nm)	1.0200	0.52	799.9364
	R2408421-001A	Si (252.851 nm)	1.6106	0.29	10316.8911
	R2408421-001A	Sn (189.925 nm)	4.9226	0.08	12870.2662
	R2408421-001A	Sr (216.596 nm)	2.1889	0.30	42050.5060
	R2408421-001A	Ti (336.122 nm)	0.4927	0.10	75414.6903
	R2408421-001A	Tl (190.794 nm)	1.9096	0.27	1828.1802
	R2408421-001A	V (292.401 nm)	0.4914	0.19	18001.9391
	R2408421-001A	Y (360.074 nm)	0.98	0.34	507452.02
	R2408421-001A	Y_R (360.074 nm)	0.98	0.34	507697.50
	R2408421-001A	Zn (213.857 nm)	0.5005	0.09	29711.2091
9/9/2024 20:05:13	Continuing Calibration Verification	Ag (328.068 nm)	0.4945	0.08	27628.9400
	Continuing Calibration Verification	Al (237.312 nm)	9.4900	0.21	24142.0518
	Continuing Calibration Verification	As (188.980 nm)	0.9898	0.61	1585.7324
	Continuing Calibration Verification	B (249.772 nm)	2.2797	0.12	95390.1462
	Continuing Calibration Verification	Ba (230.424 nm)	9.6930	0.33	588371.4400
	Continuing Calibration Verification	Be (313.107 nm)	0.2437	0.10	290006.8075
	Continuing Calibration Verification	Ca (317.933 nm)	25.7335	0.12	798816.7796
	Continuing Calibration Verification	Cd (214.439 nm)	0.5061	0.10	30380.4126
	Continuing Calibration Verification	Co (230.786 nm)	2.4788	0.41	49919.9241
	Continuing Calibration Verification	Cr (267.716 nm)	0.5085	0.12	29591.9643
	Continuing Calibration Verification	Cu (327.395 nm)	1.1781	0.19	52568.8674
	Continuing Calibration Verification	Fe (234.350 nm)	4.9009	0.05	112098.5859
	Continuing Calibration Verification	K (766.491 nm)	24.2724	0.38	30162.5754

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification	Mg (279.078 nm)	25.7335	0.09	103913.7711
	Continuing Calibration Verification	Mn (257.610 nm)	0.7248	0.07	251670.1363
	Continuing Calibration Verification	Mo (202.032 nm)	2.5347	0.21	27181.5837
	Continuing Calibration Verification	Na (588.995 nm)	23.6100	0.30	421741.6357
	Continuing Calibration Verification	Ni (230.299 nm)	1.9998	0.07	25420.5611
	Continuing Calibration Verification	Pb (220.353 nm)	0.5027	0.25	2535.7253
	Continuing Calibration Verification	Sb (217.582 nm)	4.8775	0.24	11192.4901
	Continuing Calibration Verification	Se (196.026 nm)	0.4905	0.69	385.6108
	Continuing Calibration Verification	Si (252.851 nm)	9.6907	0.61	61823.1026
	Continuing Calibration Verification	Sn (189.925 nm)	5.0516	0.06	13207.4693
	Continuing Calibration Verification	Sr (216.596 nm)	2.5174	0.28	48359.8777
	Continuing Calibration Verification	Ti (336.122 nm)	2.5111	0.05	384105.0261
	Continuing Calibration Verification	Tl (190.794 nm)	0.9880	0.38	945.0719
	Continuing Calibration Verification	V (292.401 nm)	2.5017	0.03	91596.6125
	Continuing Calibration Verification	Y (360.074 nm)	0.98	0.43	506619.27
	Continuing Calibration Verification	Y_R (360.074 nm)	0.98	0.43	506874.42
	Continuing Calibration Verification	Zn (213.857 nm)	0.9769	0.22	57980.4246
9/9/2024 20:08:27	Continuing Calibration Blank	Ag (328.068 nm)	-0.0001 u	42.44	-119.1856
	Continuing Calibration Blank	Al (237.312 nm)	0.0017 u	96.73	-10.0836
	Continuing Calibration Blank	As (188.980 nm)	0.0020	39.76	1.9128
	Continuing Calibration Blank	B (249.772 nm)	0.0021	13.84	130.8813
	Continuing Calibration Blank	Ba (230.424 nm)	0.0008	3.48	57.0441
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	> 100.00	-5.7247
	Continuing Calibration Blank	Ca (317.933 nm)	0.0047	5.91	1260.7403
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	68.14	8.0219
	Continuing Calibration Blank	Co (230.786 nm)	-0.0001 u	32.59	2.8635
	Continuing Calibration Blank	Cr (267.716 nm)	0.0001	16.35	8.7138
	Continuing Calibration Blank	Cu (327.395 nm)	-0.0002 u	53.45	-149.6244
	Continuing Calibration Blank	Fe (234.350 nm)	0.0050	11.23	164.7907
	Continuing Calibration Blank	K (766.491 nm)	0.0749	45.50	461.3238
	Continuing Calibration Blank	Mg (279.078 nm)	0.0005 u	99.66	3.0242
	Continuing Calibration Blank	Mn (257.610 nm)	0.0001	6.04	48.3113
	Continuing Calibration Blank	Mo (202.032 nm)	0.0071	11.84	82.3468
	Continuing Calibration Blank	Na (588.995 nm)	0.1533	4.19	-7493.9187
	Continuing Calibration Blank	Ni (230.299 nm)	0.0003	32.84	6.6420
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0007 u	83.03	-2.1676
	Continuing Calibration Blank	Sb (217.582 nm)	0.0108	22.35	32.0739
	Continuing Calibration Blank	Se (196.026 nm)	0.0017 u	> 100.00	3.1944
	Continuing Calibration Blank	Si (252.851 nm)	0.0091	21.84	108.2532
	Continuing Calibration Blank	Sn (189.925 nm)	0.0017	62.57	7.5704
	Continuing Calibration Blank	Sr (216.596 nm)	0.0002 u	> 100.00	9.1995
	Continuing Calibration Blank	Ti (336.122 nm)	0.0071	23.35	1146.6655
	Continuing Calibration Blank	Tl (190.794 nm)	0.0004 u	> 100.00	-1.2407
	Continuing Calibration Blank	V (292.401 nm)	0.0003	55.64	26.5018
	Continuing Calibration Blank	Y (360.074 nm)	1.02	0.10	527146.52
	Continuing Calibration Blank	Y_R (360.074 nm)	1.02	0.10	527391.08
	Continuing Calibration Blank	Zn (213.857 nm)	0.0001	53.23	19.3769
9/9/2024 20:11:41	R2408421-001L 5X	Ag (328.068 nm)	0.0000 u	> 100.00	-111.2608
	R2408421-001L 5X	Al (237.312 nm)	0.0866	2.01	205.9445
	R2408421-001L 5X	As (188.980 nm)	0.0020 u	> 100.00	1.8887
	R2408421-001L 5X	B (249.772 nm)	0.0219	0.41	958.6857
	R2408421-001L 5X	Ba (230.424 nm)	0.0106	0.31	649.8444
	R2408421-001L 5X	Be (313.107 nm)	0.0000 u	> 100.00	-12.0862
	R2408421-001L 5X	Ca (317.933 nm)	14.5007	0.11	450616.2315
	R2408421-001L 5X	Cd (214.439 nm)	0.0000	59.92	12.1875
	R2408421-001L 5X	Co (230.786 nm)	-0.0001 u	> 100.00	3.5605
	R2408421-001L 5X	Cr (267.716 nm)	0.0057	0.42	335.2729

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408421-001L 5X	Cu (327.395 nm)	0.0005	30.95	-117.6036
	R2408421-001L 5X	Fe (234.350 nm)	0.1387	0.41	3221.1043
	R2408421-001L 5X	K (766.491 nm)	0.9168	0.96	1494.7256
	R2408421-001L 5X	Mg (279.078 nm)	2.1210	0.22	8565.8205
	R2408421-001L 5X	Mn (257.610 nm)	0.0274	0.22	9509.9434
	R2408421-001L 5X	Mo (202.032 nm)	0.0021	11.99	29.2940
	R2408421-001L 5X	Na (588.995 nm)	10.6396	0.21	184395.1615
	R2408421-001L 5X	Ni (230.299 nm)	0.0011	20.88	17.4631
	R2408421-001L 5X	Pb (220.353 nm)	-0.0004 u	32.10	-0.4060
	R2408421-001L 5X	Sb (217.582 nm)	0.0054	14.34	19.5616
	R2408421-001L 5X	Se (196.026 nm)	0.0007 u	> 100.00	2.4222
	R2408421-001L 5X	Si (252.851 nm)	0.3032	0.75	1983.3896
	R2408421-001L 5X	Sn (189.925 nm)	0.0013	44.55	6.4812
	R2408421-001L 5X	Sr (216.596 nm)	0.0505	0.21	976.5856
	R2408421-001L 5X	Ti (336.122 nm)	0.0038	22.66	648.5494
	R2408421-001L 5X	Tl (190.794 nm)	0.0017 u	92.20	-0.0571
	R2408421-001L 5X	V (292.401 nm)	0.0004	31.69	27.8994
	R2408421-001L 5X	Y (360.074 nm)	1.01	0.22	520769.52
	R2408421-001L 5X	Y_R (360.074 nm)	1.01	0.22	520996.27
	R2408421-001L 5X	Zn (213.857 nm)	0.0008	8.23	63.8218
9/9/2024 20:14:55	R2408421-002	Ag (328.068 nm)	-0.0001 u	> 100.00	-117.8895
	R2408421-002	Al (237.312 nm)	0.4479	0.38	1125.7232
	R2408421-002	As (188.980 nm)	0.0027	74.26	3.0463
	R2408421-002	B (249.772 nm)	0.1049	0.22	4427.4216
	R2408421-002	Ba (230.424 nm)	0.0523	0.29	3179.3080
	R2408421-002	Be (313.107 nm)	0.0000 u	> 100.00	-8.4730
	R2408421-002	Ca (317.933 nm)	71.9721 o	0.22	2232152.3570
	R2408421-002	Cd (214.439 nm)	0.0001	5.93	15.7510
	R2408421-002	Co (230.786 nm)	0.0000 u	> 100.00	4.6663
	R2408421-002	Cr (267.716 nm)	0.0285	0.19	1660.6185
	R2408421-002	Cu (327.395 nm)	0.0023	3.45	-37.9397
	R2408421-002	Fe (234.350 nm)	0.7537	0.25	17282.8930
	R2408421-002	K (766.491 nm)	4.7406	0.77	6188.2974
	R2408421-002	Mg (279.078 nm)	10.4636	0.13	42253.3153
	R2408421-002	Mn (257.610 nm)	0.1332	0.07	46261.6573
	R2408421-002	Mo (202.032 nm)	0.0028	10.36	37.1965
	R2408421-002	Na (588.995 nm)	53.4525	0.23	967830.2441
	R2408421-002	Ni (230.299 nm)	0.0058	2.07	77.3144
	R2408421-002	Pb (220.353 nm)	0.0011	28.60	6.8984
	R2408421-002	Sb (217.582 nm)	0.0057	19.53	20.3333
	R2408421-002	Se (196.026 nm)	-0.0004 u	> 100.00	1.5227
	R2408421-002	Si (252.851 nm)	1.4016	0.05	8984.8209
	R2408421-002	Sn (189.925 nm)	0.0009	31.85	5.4701
	R2408421-002	Sr (216.596 nm)	0.2513	0.38	4833.1244
	R2408421-002	Ti (336.122 nm)	0.0058	4.81	960.8074
	R2408421-002	Tl (190.794 nm)	0.0015	> 100.00	-0.2559
	R2408421-002	V (292.401 nm)	0.0012	24.75	57.5362
	R2408421-002	Y (360.074 nm)	0.97	0.26	498110.98
	R2408421-002	Y_R (360.074 nm)	0.97	0.26	498311.57
	R2408421-002	Zn (213.857 nm)	0.0043	3.01	271.3786
9/9/2024 20:18:10	R2408421-003	Ag (328.068 nm)	0.0001	88.71	-108.6295
	R2408421-003	Al (237.312 nm)	0.5406	0.44	1361.6898
	R2408421-003	As (188.980 nm)	0.0022	34.74	2.1984
	R2408421-003	B (249.772 nm)	0.1018	0.18	4298.1162
	R2408421-003	Ba (230.424 nm)	0.0477	0.62	2900.2602
	R2408421-003	Be (313.107 nm)	0.0000	42.54	-7.8164
	R2408421-003	Ca (317.933 nm)	60.9762 o	0.18	1891294.4315

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408421-003	Cd (214.439 nm)	0.0001	54.77	16.9005
	R2408421-003	Co (230.786 nm)	0.0000 u	> 100.00	5.8320
	R2408421-003	Cr (267.716 nm)	0.0892	0.17	5194.2415
	R2408421-003	Cu (327.395 nm)	0.0024	6.65	-31.0596
	R2408421-003	Fe (234.350 nm)	0.8443	0.10	19353.5993
	R2408421-003	K (766.491 nm)	4.4880	0.52	5878.2190
	R2408421-003	Mg (279.078 nm)	10.3688	0.06	41870.5282
	R2408421-003	Mn (257.610 nm)	0.1029	0.11	35744.6048
	R2408421-003	Mo (202.032 nm)	0.0027	2.45	35.8892
	R2408421-003	Na (588.995 nm)	45.1928	0.24	816686.3353
	R2408421-003	Ni (230.299 nm)	0.0066	2.26	86.4124
	R2408421-003	Pb (220.353 nm)	0.0007 u	> 100.00	5.0272
	R2408421-003	Sb (217.582 nm)	0.0044	18.60	17.2044
	R2408421-003	Se (196.026 nm)	-0.0020 u	> 100.00	0.2584
	R2408421-003	Si (252.851 nm)	1.4558	0.19	9330.2912
	R2408421-003	Sn (189.925 nm)	0.0013	33.32	6.4115
	R2408421-003	Sr (216.596 nm)	0.1993	0.09	3833.9712
	R2408421-003	Ti (336.122 nm)	0.0060	8.27	985.1207
	R2408421-003	Tl (190.794 nm)	0.0026	43.28	0.8753
	R2408421-003	V (292.401 nm)	0.0011	9.67	54.9394
	R2408421-003	Y (360.074 nm)	0.97	0.40	500854.37
	R2408421-003	Y_R (360.074 nm)	0.97	0.40	501026.69
	R2408421-003	Zn (213.857 nm)	0.0051	0.22	316.6563
9/9/2024 20:21:24	R2408421-004	Ag (328.068 nm)	-0.0001 u	> 100.00	-115.4863
	R2408421-004	Al (237.312 nm)	0.6270	1.01	1581.4549
	R2408421-004	As (188.980 nm)	0.0028	32.30	3.1698
	R2408421-004	B (249.772 nm)	0.1031	0.26	4354.3476
	R2408421-004	Ba (230.424 nm)	0.0438	0.36	2664.1735
	R2408421-004	Be (313.107 nm)	0.0000	91.37	-8.3280
	R2408421-004	Ca (317.933 nm)	51.8695	0.20	1608998.7645
	R2408421-004	Cd (214.439 nm)	0.0000	32.75	12.3096
	R2408421-004	Co (230.786 nm)	0.0003	16.66	10.0818
	R2408421-004	Cr (267.716 nm)	0.0022	2.90	134.5728
	R2408421-004	Cu (327.395 nm)	0.0024	10.52	-31.5456
	R2408421-004	Fe (234.350 nm)	0.8495	0.20	19471.7027
	R2408421-004	K (766.491 nm)	4.3326	0.46	5687.5128
	R2408421-004	Mg (279.078 nm)	10.5200	0.17	42481.0058
	R2408421-004	Mn (257.610 nm)	0.0810	0.10	28148.6983
	R2408421-004	Mo (202.032 nm)	0.0025	7.14	33.9946
	R2408421-004	Na (588.995 nm)	37.0906	0.23	668423.5884
	R2408421-004	Ni (230.299 nm)	0.0065	5.02	85.0841
	R2408421-004	Pb (220.353 nm)	0.0006	63.73	4.5319
	R2408421-004	Sb (217.582 nm)	0.0033	34.44	14.8205
	R2408421-004	Se (196.026 nm)	-0.0008 u	> 100.00	1.2236
	R2408421-004	Si (252.851 nm)	1.5776	0.80	10106.5310
	R2408421-004	Sn (189.925 nm)	0.0018	1.70	7.7511
	R2408421-004	Sr (216.596 nm)	0.1636	0.23	3148.9962
	R2408421-004	Ti (336.122 nm)	0.0126	8.79	1990.2871
	R2408421-004	Tl (190.794 nm)	0.0020	22.16	0.3043
	R2408421-004	V (292.401 nm)	0.0015	6.28	69.0763
	R2408421-004	Y (360.074 nm)	0.98	0.17	507036.73
	R2408421-004	Y_R (360.074 nm)	0.98	0.17	507228.26
	R2408421-004	Zn (213.857 nm)	0.0046	1.55	287.8235
9/9/2024 20:24:37	R2408421-005	Ag (328.068 nm)	-0.0002 u	> 100.00	-120.8762
	R2408421-005	Al (237.312 nm)	0.0020	90.85	-9.3508
	R2408421-005	As (188.980 nm)	-0.0005 u	> 100.00	-2.1675
	R2408421-005	B (249.772 nm)	0.0021	6.16	128.2818

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408421-005	Ba (230.424 nm)	0.0002	29.81	19.1714
	R2408421-005	Be (313.107 nm)	0.0000 u	> 100.00	-13.8299
	R2408421-005	Ca (317.933 nm)	0.0177	1.17	1662.2374
	R2408421-005	Cd (214.439 nm)	0.0000	60.99	11.7007
	R2408421-005	Co (230.786 nm)	0.0000 u	> 100.00	5.5144
	R2408421-005	Cr (267.716 nm)	0.0005	26.35	34.1595
	R2408421-005	Cu (327.395 nm)	0.0001 u	> 100.00	-136.9474
	R2408421-005	Fe (234.350 nm)	0.0076	12.01	223.9520
	R2408421-005	K (766.491 nm)	0.0444	56.12	423.9453
	R2408421-005	Mg (279.078 nm)	0.0014	63.90	6.9624
	R2408421-005	Mn (257.610 nm)	0.0002	5.42	72.2551
	R2408421-005	Mo (202.032 nm)	0.0004	31.46	11.2281
	R2408421-005	Na (588.995 nm)	0.1312	2.00	-7898.6388
	R2408421-005	Ni (230.299 nm)	0.0006	50.08	10.4975
	R2408421-005	Pb (220.353 nm)	-0.0004 u	64.84	-0.3525
	R2408421-005	Sb (217.582 nm)	0.0076	6.57	24.5261
	R2408421-005	Se (196.026 nm)	-0.0021 u	37.09	0.1957
	R2408421-005	Si (252.851 nm)	0.0184	16.33	167.7740
	R2408421-005	Sn (189.925 nm)	0.0010	16.83	5.5880
	R2408421-005	Sr (216.596 nm)	0.0000 u	> 100.00	6.4233
	R2408421-005	Ti (336.122 nm)	0.0006	32.03	158.7536
	R2408421-005	Tl (190.794 nm)	-0.0001 u	> 100.00	-1.7646
	R2408421-005	V (292.401 nm)	-0.0001 u	> 100.00	11.3198
	R2408421-005	Y (360.074 nm)	1.01	0.12	523233.60
	R2408421-005	Y_R (360.074 nm)	1.01	0.13	523401.09
	R2408421-005	Zn (213.857 nm)	0.0003	23.60	30.5500
9/9/2024 20:27:51	Continuing Calibration Verification	Ag (328.068 nm)	0.5049	0.06	28212.0248
	Continuing Calibration Verification	Al (237.312 nm)	9.6935	0.24	24659.8560
	Continuing Calibration Verification	As (188.980 nm)	1.0088	0.11	1616.1425
	Continuing Calibration Verification	B (249.772 nm)	2.3229	0.06	97194.8092
	Continuing Calibration Verification	Ba (230.424 nm)	9.9240	0.73	602395.1262
	Continuing Calibration Verification	Be (313.107 nm)	0.2491	0.18	296514.3770
	Continuing Calibration Verification	Ca (317.933 nm)	26.2636	0.20	815249.5039
	Continuing Calibration Verification	Cd (214.439 nm)	0.5161	0.13	30977.9138
	Continuing Calibration Verification	Co (230.786 nm)	2.5320	0.27	50992.5207
	Continuing Calibration Verification	Cr (267.716 nm)	0.5191	0.16	30209.5972
	Continuing Calibration Verification	Cu (327.395 nm)	1.2007	0.21	53579.9943
	Continuing Calibration Verification	Fe (234.350 nm)	4.9966	0.17	114288.2152
	Continuing Calibration Verification	K (766.491 nm)	24.6936	0.13	30679.5841
	Continuing Calibration Verification	Mg (279.078 nm)	26.2696	0.11	106078.5013
	Continuing Calibration Verification	Mn (257.610 nm)	0.7398	0.14	256866.6002
	Continuing Calibration Verification	Mo (202.032 nm)	2.5881	0.20	27753.9844
	Continuing Calibration Verification	Na (588.995 nm)	23.9355	0.34	427697.0996
	Continuing Calibration Verification	Ni (230.299 nm)	2.0445	0.12	25989.0969
	Continuing Calibration Verification	Pb (220.353 nm)	0.5137	0.10	2590.7891
	Continuing Calibration Verification	Sb (217.582 nm)	4.9793	0.14	11425.7844
	Continuing Calibration Verification	Se (196.026 nm)	0.4907	0.66	385.7964
	Continuing Calibration Verification	Si (252.851 nm)	9.8871	0.66	63075.1850
	Continuing Calibration Verification	Sn (189.925 nm)	5.1537	0.13	13474.4338
	Continuing Calibration Verification	Sr (216.596 nm)	2.5682	0.53	49335.8268
	Continuing Calibration Verification	Ti (336.122 nm)	2.5597	0.15	391542.9051
	Continuing Calibration Verification	Tl (190.794 nm)	1.0091	0.44	965.3139
	Continuing Calibration Verification	V (292.401 nm)	2.5538	0.09	93505.1164
	Continuing Calibration Verification	Y (360.074 nm)	0.96	0.26	496870.98
	Continuing Calibration Verification	Y_R (360.074 nm)	0.96	0.26	497033.68
	Continuing Calibration Verification	Zn (213.857 nm)	0.9986	0.31	59270.4079
9/9/2024 20:31:05	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u	> 100.00	-110.8247

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Al (237.312 nm)	0.0026	63.35	-7.9273
	Continuing Calibration Blank	As (188.980 nm)	0.0020	60.05	1.8787
	Continuing Calibration Blank	B (249.772 nm)	0.0019	18.86	121.3307
	Continuing Calibration Blank	Ba (230.424 nm)	0.0009	6.78	63.4306
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	55.48	-7.4620
	Continuing Calibration Blank	Ca (317.933 nm)	0.0047	4.70	1259.0121
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	8.6519
	Continuing Calibration Blank	Co (230.786 nm)	0.0001	47.83	6.1971
	Continuing Calibration Blank	Cr (267.716 nm)	0.0002	36.94	15.6797
	Continuing Calibration Blank	Cu (327.395 nm)	0.0000 u	92.41	-141.5998
	Continuing Calibration Blank	Fe (234.350 nm)	0.0052	21.22	169.5722
	Continuing Calibration Blank	K (766.491 nm)	0.0396	57.90	418.0033
	Continuing Calibration Blank	Mg (279.078 nm)	0.0004 u	> 100.00	2.8900
	Continuing Calibration Blank	Mn (257.610 nm)	0.0001	31.89	50.0816
	Continuing Calibration Blank	Mo (202.032 nm)	0.0070	20.74	81.4859
	Continuing Calibration Blank	Na (588.995 nm)	0.0276	14.04	-9794.1422
	Continuing Calibration Blank	Ni (230.299 nm)	0.0003	> 100.00	6.6711
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0003 u	> 100.00	0.1540
	Continuing Calibration Blank	Sb (217.582 nm)	0.0123	15.63	35.4717
	Continuing Calibration Blank	Se (196.026 nm)	-0.0013 u	> 100.00	0.8731
	Continuing Calibration Blank	Si (252.851 nm)	0.0080	24.82	101.5498
	Continuing Calibration Blank	Sn (189.925 nm)	0.0022	28.40	8.9011
	Continuing Calibration Blank	Sr (216.596 nm)	0.0003	30.68	11.2503
	Continuing Calibration Blank	Ti (336.122 nm)	0.0073	23.84	1179.1919
	Continuing Calibration Blank	Tl (190.794 nm)	-0.0005 u	> 100.00	-2.1049
	Continuing Calibration Blank	V (292.401 nm)	0.0002	> 100.00	22.5898
	Continuing Calibration Blank	Y (360.074 nm)	1.01	0.18	522115.13
	Continuing Calibration Blank	Y_R (360.074 nm)	1.01	0.18	522297.22
	Continuing Calibration Blank	Zn (213.857 nm)	0.0001	28.25	18.6592
9/9/2024 20:34:18	PBW-444306	Ag (328.068 nm)	-0.0001 u	47.03	-119.8216
	PBW-444306	Al (237.312 nm)	0.0026	47.86	-7.9494
	PBW-444306	As (188.980 nm)	0.0003 u	> 100.00	-0.8696
	PBW-444306	B (249.772 nm)	0.0020	9.35	124.5521
	PBW-444306	Ba (230.424 nm)	0.0002	33.02	17.2080
	PBW-444306	Be (313.107 nm)	0.0000 u	21.08	-16.6416
	PBW-444306	Ca (317.933 nm)	0.0115	1.70	1469.5524
	PBW-444306	Cd (214.439 nm)	0.0000	63.78	12.6177
	PBW-444306	Co (230.786 nm)	-0.0002 u	45.74	1.8579
	PBW-444306	Cr (267.716 nm)	0.0003	23.14	18.9530
	PBW-444306	Cu (327.395 nm)	-0.0002 u	55.63	-149.2075
	PBW-444306	Fe (234.350 nm)	0.0049	13.56	162.8795
	PBW-444306	K (766.491 nm)	0.0179 u	> 100.00	391.3700
	PBW-444306	Mg (279.078 nm)	0.0006	82.03	3.4632
	PBW-444306	Mn (257.610 nm)	0.0001	29.89	33.7766
	PBW-444306	Mo (202.032 nm)	0.0012	37.96	19.9361
	PBW-444306	Na (588.995 nm)	0.0419	7.11	-9532.8341
	PBW-444306	Ni (230.299 nm)	0.0003	> 100.00	6.3276
	PBW-444306	Pb (220.353 nm)	0.0003 u	> 100.00	2.8208
	PBW-444306	Sb (217.582 nm)	0.0115	5.85	33.5392
	PBW-444306	Se (196.026 nm)	-0.0028 u	35.38	-0.3085
	PBW-444306	Si (252.851 nm)	0.0197	8.96	175.9140
	PBW-444306	Sn (189.925 nm)	0.0016	10.84	7.1924
	PBW-444306	Sr (216.596 nm)	0.0001 u	> 100.00	7.0717
	PBW-444306	Ti (336.122 nm)	0.0028	32.31	496.4894
	PBW-444306	Tl (190.794 nm)	-0.0005 u	88.76	-2.1522
	PBW-444306	V (292.401 nm)	0.0000 u	> 100.00	15.8752
	PBW-444306	Y (360.074 nm)	1.02	0.34	524349.73

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	PBW-444306	Y_R (360.074 nm)	1.02	0.34	524576.81
	PBW-444306	Zn (213.857 nm)	0.0001	97.37	20.0750
9/9/2024 20:37:32	LCSW-444306	Ag (328.068 nm)	0.0491	0.45	2641.4636
	LCSW-444306	Al (237.312 nm)	1.9212	0.29	4875.9559
	LCSW-444306	As (188.980 nm)	0.0388	4.35	60.8032
	LCSW-444306	B (249.772 nm)	0.9160	0.07	38354.4829
	LCSW-444306	Ba (230.424 nm)	1.9608	0.12	119025.6750
	LCSW-444306	Be (313.107 nm)	0.0492	0.15	58534.4008
	LCSW-444306	Ca (317.933 nm)	2.0522	0.20	64728.7723
	LCSW-444306	Cd (214.439 nm)	0.0518	0.24	3117.0814
	LCSW-444306	Co (230.786 nm)	0.5043	0.07	10159.1102
	LCSW-444306	Cr (267.716 nm)	0.2018	0.22	11746.6068
	LCSW-444306	Cu (327.395 nm)	0.2444	0.03	10795.1382
	LCSW-444306	Fe (234.350 nm)	1.0051	0.14	23030.5033
	LCSW-444306	K (766.491 nm)	18.9205	0.34	23593.3760
	LCSW-444306	Mg (279.078 nm)	2.0011	0.13	8081.4404
	LCSW-444306	Mn (257.610 nm)	0.4797	0.15	166552.3287
	LCSW-444306	Mo (202.032 nm)	0.4872	0.70	5230.1851
	LCSW-444306	Na (588.995 nm)	18.6927	0.17	331759.0423
	LCSW-444306	Ni (230.299 nm)	0.4983	0.22	6336.3801
	LCSW-444306	Pb (220.353 nm)	0.5205	0.23	2625.4291
	LCSW-444306	Sb (217.582 nm)	0.4939	0.76	1139.8149
	LCSW-444306	Se (196.026 nm)	0.9996	0.29	783.9613
	LCSW-444306	Si (252.851 nm)	0.3262	0.29	2129.4772
	LCSW-444306	Sn (189.925 nm)	4.9736	0.04	13003.6231
	LCSW-444306	Sr (216.596 nm)	2.0207	0.19	38819.2310
	LCSW-444306	Ti (336.122 nm)	0.4922	0.15	75348.1762
	LCSW-444306	Tl (190.794 nm)	1.9687	0.19	1884.7667
	LCSW-444306	V (292.401 nm)	0.4916	0.19	18009.6929
	LCSW-444306	Y (360.074 nm)	1.01	0.18	520403.14
	LCSW-444306	Y_R (360.074 nm)	1.01	0.18	520623.97
	LCSW-444306	Zn (213.857 nm)	0.5018	0.08	29788.9820
9/9/2024 20:40:45	R2408212-001	Ag (328.068 nm)	-0.0001 u	> 100.00	-117.1604
	R2408212-001	Al (237.312 nm)	0.0022 u	> 100.00	-8.8716
	R2408212-001	As (188.980 nm)	0.0008 u	> 100.00	-0.1360
	R2408212-001	B (249.772 nm)	0.0022	2.63	134.3962
	R2408212-001	Ba (230.424 nm)	0.0002	23.67	15.5201
	R2408212-001	Be (313.107 nm)	0.0000 u	> 100.00	-14.5333
	R2408212-001	Ca (317.933 nm)	0.0127	2.86	1507.3913
	R2408212-001	Cd (214.439 nm)	0.0000 u	> 100.00	11.6895
	R2408212-001	Co (230.786 nm)	-0.0001 u	> 100.00	3.9625
	R2408212-001	Cr (267.716 nm)	0.0004	7.96	26.8912
	R2408212-001	Cu (327.395 nm)	-0.0003 u	79.01	-151.7395
	R2408212-001	Fe (234.350 nm)	0.0064	9.82	197.7087
	R2408212-001	K (766.491 nm)	0.0287 u	> 100.00	404.6113
	R2408212-001	Mg (279.078 nm)	0.0006	> 100.00	3.6370
	R2408212-001	Mn (257.610 nm)	0.0001	34.39	36.0477
	R2408212-001	Mo (202.032 nm)	0.0048	23.16	57.7659
	R2408212-001	Na (588.995 nm)	0.0237	12.63	-9865.2550
	R2408212-001	Ni (230.299 nm)	0.0002	71.42	5.2885
	R2408212-001	Pb (220.353 nm)	-0.0001 u	> 100.00	0.7139
	R2408212-001	Sb (217.582 nm)	0.0084	10.00	26.4345
	R2408212-001	Se (196.026 nm)	0.0011 u	> 100.00	2.7494
	R2408212-001	Si (252.851 nm)	0.0180	11.93	165.1305
	R2408212-001	Sn (189.925 nm)	0.0034	13.86	11.8181
	R2408212-001	Sr (216.596 nm)	0.0000 u	> 100.00	5.9942
	R2408212-001	Ti (336.122 nm)	0.0030	26.30	533.3133

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408212-001	Tl (190.794 nm)	0.0002 u	> 100.00	-1.4932
	R2408212-001	V (292.401 nm)	0.0002	72.53	20.4641
	R2408212-001	Y (360.074 nm)	1.02	0.31	526906.89
	R2408212-001	Y_R (360.074 nm)	1.02	0.32	527133.86
	R2408212-001	Zn (213.857 nm)	0.0006	7.67	51.2223
9/9/2024 20:43:59	R2408212-002	Ag (328.068 nm)	-0.0001 u	> 100.00	-115.4152
	R2408212-002	Al (237.312 nm)	24.9180 o	0.19	63413.3336
	R2408212-002	As (188.980 nm)	0.0105	16.17	15.4445
	R2408212-002	B (249.772 nm)	0.0717	0.31	3041.6023
	R2408212-002	Ba (230.424 nm)	0.2287	0.17	13885.7177
	R2408212-002	Be (313.107 nm)	0.0010	0.85	1222.0220
	R2408212-002	Ca (317.933 nm)	99.1101 o	0.17	3073392.0376
	R2408212-002	Cd (214.439 nm)	0.0008	7.36	55.1923
	R2408212-002	Co (230.786 nm)	0.0163	0.68	332.3923
	R2408212-002	Cr (267.716 nm)	0.0310	0.36	1809.3763
	R2408212-002	Cu (327.395 nm)	0.0378	0.73	1552.2266
	R2408212-002	Fe (234.350 nm)	29.3747 o	0.16	671638.6795
	R2408212-002	K (766.491 nm)	10.7524	0.10	13567.4172
	R2408212-002	Mg (279.078 nm)	24.7472	0.03	99930.8800
	R2408212-002	Mn (257.610 nm)	1.2137	0.08	421422.1860
	R2408212-002	Mo (202.032 nm)	0.0039	10.37	48.5920
	R2408212-002	Na (588.995 nm)	8.5604	0.18	146348.4965
	R2408212-002	Ni (230.299 nm)	0.1163	2.10	1481.5262
	R2408212-002	Pb (220.353 nm)	0.0170	2.27	87.2507
	R2408212-002	Sb (217.582 nm)	0.0032	20.78	14.6602
	R2408212-002	Se (196.026 nm)	0.0018	49.85	3.2902
	R2408212-002	Si (252.851 nm)	26.2520	2.60	167391.2398
	R2408212-002	Sn (189.925 nm)	0.0029	19.80	10.4886
	R2408212-002	Sr (216.596 nm)	0.5143	0.09	9883.5082
	R2408212-002	Ti (336.122 nm)	0.2513	2.39	38503.8443
	R2408212-002	Tl (190.794 nm)	0.0025	19.50	0.7013
	R2408212-002	V (292.401 nm)	0.0410	0.30	1514.9468
	R2408212-002	Y (360.074 nm)	0.98	0.27	503295.01
	R2408212-002	Y_R (360.074 nm)	0.98	0.27	503542.95
	R2408212-002	Zn (213.857 nm)	0.0930	0.28	5529.9162
9/9/2024 20:47:12	R2408212-003	Ag (328.068 nm)	-0.0001 u	> 100.00	-117.7271
	R2408212-003	Al (237.312 nm)	0.0201	7.73	36.6424
	R2408212-003	As (188.980 nm)	-0.0024 u	12.02	-5.2406
	R2408212-003	B (249.772 nm)	0.0738	0.37	3130.2634
	R2408212-003	Ba (230.424 nm)	0.0411	0.44	2501.5417
	R2408212-003	Be (313.107 nm)	0.0000 u	> 100.00	-15.0252
	R2408212-003	Ca (317.933 nm)	104.1549 o	0.04	3229773.0949
	R2408212-003	Cd (214.439 nm)	0.0001	68.31	13.0548
	R2408212-003	Co (230.786 nm)	-0.0002 u	8.26	0.7133
	R2408212-003	Cr (267.716 nm)	0.0006	7.55	40.8154
	R2408212-003	Cu (327.395 nm)	0.0010	3.05	-93.0928
	R2408212-003	Fe (234.350 nm)	0.0477	6.36	1141.2118
	R2408212-003	K (766.491 nm)	1.3891	1.62	2074.4877
	R2408212-003	Mg (279.078 nm)	27.2602	0.08	110078.3423
	R2408212-003	Mn (257.610 nm)	0.0065	0.31	2264.8764
	R2408212-003	Mo (202.032 nm)	0.0014	19.63	21.6064
	R2408212-003	Na (588.995 nm)	13.2452	0.38	232075.8323
	R2408212-003	Ni (230.299 nm)	0.0195	0.97	250.6871
	R2408212-003	Pb (220.353 nm)	0.0005	> 100.00	4.0775
	R2408212-003	Sb (217.582 nm)	0.0024	40.53	12.7813
	R2408212-003	Se (196.026 nm)	-0.0036 u	99.24	-0.9319
	R2408212-003	Si (252.851 nm)	6.0765	0.19	38784.5922

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408212-003	Sn (189.925 nm)	0.0014	33.41	6.7259
	R2408212-003	Sr (216.596 nm)	2.8559	0.38	54860.8296
	R2408212-003	Ti (336.122 nm)	0.0009	37.73	210.0443
	R2408212-003	Tl (190.794 nm)	0.0011 u	> 100.00	-0.6419
	R2408212-003	V (292.401 nm)	0.0004	25.22	27.1573
	R2408212-003	Y (360.074 nm)	0.98	0.31	503658.15
	R2408212-003	Y_R (360.074 nm)	0.98	0.31	503911.32
	R2408212-003	Zn (213.857 nm)	0.0028	1.10	178.3745
9/9/2024 20:50:26	R2408212-004	Ag (328.068 nm)	0.0000 u	> 100.00	-110.4258
	R2408212-004	Al (237.312 nm)	0.1256	0.99	305.1976
	R2408212-004	As (188.980 nm)	0.0003 u	> 100.00	-0.8187
	R2408212-004	B (249.772 nm)	0.0236	0.46	1027.1615
	R2408212-004	Ba (230.424 nm)	0.0980	0.13	5952.5367
	R2408212-004	Be (313.107 nm)	0.0000 u	> 100.00	-9.5971
	R2408212-004	Ca (317.933 nm)	118.6927 o	0.13	3680425.6342
	R2408212-004	Cd (214.439 nm)	0.0001	> 100.00	15.0452
	R2408212-004	Co (230.786 nm)	-0.0001 u	80.81	3.4841
	R2408212-004	Cr (267.716 nm)	0.0008	2.84	53.2372
	R2408212-004	Cu (327.395 nm)	0.0005	70.67	-118.8534
	R2408212-004	Fe (234.350 nm)	0.1287	0.84	2992.3002
	R2408212-004	K (766.491 nm)	1.4021	2.66	2090.4496
	R2408212-004	Mg (279.078 nm)	22.8869	0.13	92419.1064
	R2408212-004	Mn (257.610 nm)	0.0267	0.20	9269.7513
	R2408212-004	Mo (202.032 nm)	0.0015	24.98	22.9366
	R2408212-004	Na (588.995 nm)	17.2543	0.23	305438.7556
	R2408212-004	Ni (230.299 nm)	0.0209	0.95	268.4976
	R2408212-004	Pb (220.353 nm)	0.0007 u	> 100.00	4.8424
	R2408212-004	Sb (217.582 nm)	0.0031	53.81	14.2743
	R2408212-004	Se (196.026 nm)	0.0010 u	> 100.00	2.6163
	R2408212-004	Si (252.851 nm)	6.6056	0.01	42156.9426
	R2408212-004	Sn (189.925 nm)	0.0013	17.93	6.3606
	R2408212-004	Sr (216.596 nm)	0.9414	0.15	18087.5416
	R2408212-004	Ti (336.122 nm)	0.0015	19.08	293.1807
	R2408212-004	Tl (190.794 nm)	0.0016 u	> 100.00	-0.1348
	R2408212-004	V (292.401 nm)	0.0005	28.87	33.0260
	R2408212-004	Y (360.074 nm)	0.97	0.17	499302.34
	R2408212-004	Y_R (360.074 nm)	0.97	0.17	499563.15
	R2408212-004	Zn (213.857 nm)	0.0029	1.47	189.3280
9/9/2024 20:53:40	R2408212-005	Ag (328.068 nm)	-0.0001 u	> 100.00	-118.2843
	R2408212-005	Al (237.312 nm)	0.5511	0.28	1388.2211
	R2408212-005	As (188.980 nm)	-0.0005 u	> 100.00	-2.1840
	R2408212-005	B (249.772 nm)	0.0215	0.62	939.5288
	R2408212-005	Ba (230.424 nm)	0.0315	0.20	1918.0705
	R2408212-005	Be (313.107 nm)	0.0000	37.37	3.1168
	R2408212-005	Ca (317.933 nm)	57.9778 o	0.20	1798348.3117
	R2408212-005	Cd (214.439 nm)	0.0001	15.46	17.2160
	R2408212-005	Co (230.786 nm)	0.0003 u	90.92	10.6609
	R2408212-005	Cr (267.716 nm)	0.0019	6.00	112.4101
	R2408212-005	Cu (327.395 nm)	0.0013	14.00	-81.8322
	R2408212-005	Fe (234.350 nm)	1.1434	0.20	26192.4474
	R2408212-005	K (766.491 nm)	1.5616	1.65	2286.1310
	R2408212-005	Mg (279.078 nm)	13.6095	0.17	54956.6843
	R2408212-005	Mn (257.610 nm)	0.2191	0.13	76097.0208
	R2408212-005	Mo (202.032 nm)	0.0006	20.32	13.5507
	R2408212-005	Na (588.995 nm)	6.4868	0.33	108403.2880
	R2408212-005	Ni (230.299 nm)	0.0159	2.37	204.5909
	R2408212-005	Pb (220.353 nm)	0.0012	79.66	7.5603

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408212-005	Sb (217.582 nm)	0.0021	85.12	11.9093
	R2408212-005	Se (196.026 nm)	0.0009 u	> 100.00	2.5255
	R2408212-005	Si (252.851 nm)	4.2099	0.12	26885.7554
	R2408212-005	Sn (189.925 nm)	0.0015	41.84	6.8598
	R2408212-005	Sr (216.596 nm)	0.2446	0.38	4703.8394
	R2408212-005	Ti (336.122 nm)	0.0046	2.49	770.1300
	R2408212-005	Tl (190.794 nm)	-0.0009 u	86.99	-2.5521
	R2408212-005	V (292.401 nm)	0.0011	11.88	53.6859
	R2408212-005	Y (360.074 nm)	0.99	0.14	510966.15
	R2408212-005	Y_R (360.074 nm)	0.99	0.14	511199.51
	R2408212-005	Zn (213.857 nm)	0.0046	1.97	287.8468
9/9/2024 20:56:54	R2408212-006	Ag (328.068 nm)	0.0000 u	> 100.00	-112.2904
	R2408212-006	Al (237.312 nm)	0.6386	0.57	1611.1398
	R2408212-006	As (188.980 nm)	0.0025	16.04	2.7295
	R2408212-006	B (249.772 nm)	0.0567	0.26	2412.9411
	R2408212-006	Ba (230.424 nm)	0.0447	0.06	2717.3764
	R2408212-006	Be (313.107 nm)	0.0000	71.00	-4.3222
	R2408212-006	Ca (317.933 nm)	122.0011 o	0.14	3782982.1305
	R2408212-006	Cd (214.439 nm)	0.0002	12.59	19.4929
	R2408212-006	Co (230.786 nm)	0.0002	37.24	9.3236
	R2408212-006	Cr (267.716 nm)	0.0021	7.66	125.2275
	R2408212-006	Cu (327.395 nm)	0.0026	6.96	-23.4671
	R2408212-006	Fe (234.350 nm)	0.7913	0.16	18141.3990
	R2408212-006	K (766.491 nm)	13.6319	0.27	17101.8778
	R2408212-006	Mg (279.078 nm)	26.6467	0.09	107601.0090
	R2408212-006	Mn (257.610 nm)	0.0283	0.14	9851.3630
	R2408212-006	Mo (202.032 nm)	0.0012	26.70	19.0666
	R2408212-006	Na (588.995 nm)	6.1307	0.05	101886.7715
	R2408212-006	Ni (230.299 nm)	0.0246	1.94	315.0599
	R2408212-006	Pb (220.353 nm)	0.0004 u	> 100.00	3.4887
	R2408212-006	Sb (217.582 nm)	0.0015	62.34	10.6530
	R2408212-006	Se (196.026 nm)	-0.0018 u	> 100.00	0.4316
	R2408212-006	Si (252.851 nm)	6.8480	0.07	43702.3092
	R2408212-006	Sn (189.925 nm)	0.0013	71.50	6.5191
	R2408212-006	Sr (216.596 nm)	0.4117	0.09	7912.8049
	R2408212-006	Ti (336.122 nm)	0.0045	5.03	758.0939
	R2408212-006	Tl (190.794 nm)	0.0013	54.67	-0.4115
	R2408212-006	V (292.401 nm)	0.0013	5.73	62.5781
	R2408212-006	Y (360.074 nm)	0.97	0.25	501481.48
	R2408212-006	Y_R (360.074 nm)	0.97	0.25	501782.08
	R2408212-006	Zn (213.857 nm)	0.0052	0.91	325.4266
9/9/2024 21:00:08	R2408212-007	Ag (328.068 nm)	0.0000 u	> 100.00	-109.7958
	R2408212-007	Al (237.312 nm)	0.2673	0.62	665.9996
	R2408212-007	As (188.980 nm)	-0.0021 u	34.99	-4.7583
	R2408212-007	B (249.772 nm)	0.0191	0.88	838.6726
	R2408212-007	Ba (230.424 nm)	0.0401	0.09	2441.7603
	R2408212-007	Be (313.107 nm)	0.0000	28.07	-3.4646
	R2408212-007	Ca (317.933 nm)	79.7366 o	0.23	2472839.7917
	R2408212-007	Cd (214.439 nm)	0.0001	31.95	15.6296
	R2408212-007	Co (230.786 nm)	0.0001	84.98	7.9190
	R2408212-007	Cr (267.716 nm)	0.0015	2.35	91.4726
	R2408212-007	Cu (327.395 nm)	0.0023	4.41	-35.4647
	R2408212-007	Fe (234.350 nm)	0.5063	0.30	11627.0765
	R2408212-007	K (766.491 nm)	1.2094	3.04	1853.9283
	R2408212-007	Mg (279.078 nm)	13.0693	0.17	52775.0702
	R2408212-007	Mn (257.610 nm)	0.0169	0.15	5874.7600
	R2408212-007	Mo (202.032 nm)	0.0001 u	> 100.00	7.3922

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408212-007	Na (588.995 nm)	13.3603	0.10	234181.7940
	R2408212-007	Ni (230.299 nm)	0.0165	4.48	213.1397
	R2408212-007	Pb (220.353 nm)	0.0002 u	> 100.00	2.4175
	R2408212-007	Sb (217.582 nm)	0.0025	37.03	13.0133
	R2408212-007	Se (196.026 nm)	-0.0013 u	> 100.00	0.8540
	R2408212-007	Si (252.851 nm)	4.6817	0.14	29893.7832
	R2408212-007	Sn (189.925 nm)	0.0023	60.34	9.0700
	R2408212-007	Sr (216.596 nm)	0.6913	0.33	13283.8625
	R2408212-007	Ti (336.122 nm)	0.0023	5.54	422.2677
	R2408212-007	Tl (190.794 nm)	-0.0001 u	> 100.00	-1.7921
	R2408212-007	V (292.401 nm)	0.0006	33.41	37.3234
	R2408212-007	Y (360.074 nm)	0.99	0.14	508994.13
	R2408212-007	Y_R (360.074 nm)	0.99	0.14	509298.52
	R2408212-007	Zn (213.857 nm)	0.0073	0.78	448.8842
9/9/2024 21:03:22	R2408212-008	Ag (328.068 nm)	0.0000 u	> 100.00	-112.7055
	R2408212-008	Al (237.312 nm)	0.1813	1.33	447.0152
	R2408212-008	As (188.980 nm)	-0.0006 u	> 100.00	-2.3766
	R2408212-008	B (249.772 nm)	0.0168	0.74	745.0560
	R2408212-008	Ba (230.424 nm)	0.1865	0.13	11325.6092
	R2408212-008	Be (313.107 nm)	0.0000 u	> 100.00	-14.8947
	R2408212-008	Ca (317.933 nm)	95.1074 o	0.19	2949313.0653
	R2408212-008	Cd (214.439 nm)	0.0001 u	> 100.00	12.6426
	R2408212-008	Co (230.786 nm)	-0.0001 u	22.19	2.0868
	R2408212-008	Cr (267.716 nm)	0.0005	27.15	31.8844
	R2408212-008	Cu (327.395 nm)	0.0007	20.93	-107.6414
	R2408212-008	Fe (234.350 nm)	0.1893	0.15	4377.8175
	R2408212-008	K (766.491 nm)	1.0906	1.92	1708.1107
	R2408212-008	Mg (279.078 nm)	23.2660	0.05	93949.8965
	R2408212-008	Mn (257.610 nm)	0.0765	0.06	26585.9473
	R2408212-008	Mo (202.032 nm)	0.0006	15.76	13.5453
	R2408212-008	Na (588.995 nm)	8.1993	0.14	139740.1543
	R2408212-008	Ni (230.299 nm)	0.0226	1.28	290.0934
	R2408212-008	Pb (220.353 nm)	0.0001 u	> 100.00	1.9202
	R2408212-008	Sb (217.582 nm)	0.0010	95.88	9.5854
	R2408212-008	Se (196.026 nm)	0.0011 u	> 100.00	2.7270
	R2408212-008	Si (252.851 nm)	7.4182	0.12	47336.9872
	R2408212-008	Sn (189.925 nm)	0.0010	11.14	5.7669
	R2408212-008	Sr (216.596 nm)	1.2784	0.17	24560.9173
	R2408212-008	Ti (336.122 nm)	0.0014	15.52	285.4077
	R2408212-008	Tl (190.794 nm)	-0.0004 u	> 100.00	-2.0430
	R2408212-008	V (292.401 nm)	0.0006	46.09	37.6685
	R2408212-008	Y (360.074 nm)	0.98	0.17	505595.65
	R2408212-008	Y_R (360.074 nm)	0.98	0.17	505889.28
	R2408212-008	Zn (213.857 nm)	0.0026	0.90	171.3486
9/9/2024 21:06:36	Continuing Calibration Verification1	Ag (328.068 nm)	0.5069	0.09	28324.8539
	Continuing Calibration Verification1	Al (237.312 nm)	9.7272	0.09	24745.6554
	Continuing Calibration Verification1	As (188.980 nm)	1.0129	0.25	1622.7193
	Continuing Calibration Verification1	B (249.772 nm)	2.3365	0.14	97761.7713
	Continuing Calibration Verification1	Ba (230.424 nm)	9.9395	0.34	603338.3342
	Continuing Calibration Verification1	Be (313.107 nm)	0.2496	0.11	297030.0910
	Continuing Calibration Verification1	Ca (317.933 nm)	26.3812	0.15	818896.5206
	Continuing Calibration Verification1	Cd (214.439 nm)	0.5177	0.16	31072.1544
	Continuing Calibration Verification1	Co (230.786 nm)	2.5441	0.14	51236.0934
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5215	0.13	30351.1177
	Continuing Calibration Verification1	Cu (327.395 nm)	1.2138	0.05	54167.5340
	Continuing Calibration Verification1	Fe (234.350 nm)	5.0147	0.14	114701.4774
	Continuing Calibration Verification1	K (766.491 nm)	24.8821	0.30	30910.9700

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification1	Mg (279.078 nm)	26.3814	0.10	106529.8698
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7423	0.15	257728.6418
	Continuing Calibration Verification1	Mo (202.032 nm)	2.5936	0.30	27812.3859
	Continuing Calibration Verification1	Na (588.995 nm)	24.1356	0.30	431359.1124
	Continuing Calibration Verification1	Ni (230.299 nm)	2.0460	0.10	26007.5484
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5144	0.23	2594.4586
	Continuing Calibration Verification1	Sb (217.582 nm)	4.9943	0.08	11460.3576
	Continuing Calibration Verification1	Se (196.026 nm)	0.4963	0.29	390.2124
	Continuing Calibration Verification1	Si (252.851 nm)	10.0338	0.95	64009.8501
	Continuing Calibration Verification1	Sn (189.925 nm)	5.1576	0.07	13484.4424
	Continuing Calibration Verification1	Sr (216.596 nm)	2.5811	0.10	49583.4483
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5708	0.13	393226.7403
	Continuing Calibration Verification1	Tl (190.794 nm)	1.0107	0.26	966.7823
	Continuing Calibration Verification1	V (292.401 nm)	2.5676	0.10	94009.8759
	Continuing Calibration Verification1	Y (360.074 nm)	0.97	0.36	500390.96
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.97	0.36	500658.87
	Continuing Calibration Verification1	Zn (213.857 nm)	1.0000	0.19	59352.3092
9/9/2024 21:09:50	Continuing Calibration Blank1	Ag (328.068 nm)	0.0000 u	> 100.00	-113.0848
	Continuing Calibration Blank1	Al (237.312 nm)	0.0021	57.62	-9.2442
	Continuing Calibration Blank1	As (188.980 nm)	0.0011 u	> 100.00	0.4611
	Continuing Calibration Blank1	B (249.772 nm)	0.0017	10.71	111.0949
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0003	14.93	24.1503
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000 u	> 100.00	-20.2021
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0047	2.06	1258.6693
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000 u	> 100.00	11.1182
	Continuing Calibration Blank1	Co (230.786 nm)	-0.0002 u	22.81	1.8901
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0000 u	> 100.00	3.7706
	Continuing Calibration Blank1	Cu (327.395 nm)	-0.0002 u	92.55	-149.3211
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0046	19.77	156.7700
	Continuing Calibration Blank1	K (766.491 nm)	0.0167 u	> 100.00	389.9136
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0006	38.03	3.6463
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0000	40.23	25.9088
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0065	22.46	76.1054
	Continuing Calibration Blank1	Na (588.995 nm)	-0.0364 u	2.80	-10964.9123
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0003	78.00	7.0849
	Continuing Calibration Blank1	Pb (220.353 nm)	0.0002 u	> 100.00	2.5544
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0091	17.29	28.0087
	Continuing Calibration Blank1	Se (196.026 nm)	-0.0032 u	50.39	-0.6711
	Continuing Calibration Blank1	Si (252.851 nm)	0.0112	10.71	122.1072
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0012	36.95	6.2637
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0000 u	> 100.00	5.7787
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0069	24.79	1115.7565
	Continuing Calibration Blank1	Tl (190.794 nm)	0.0011 u	> 100.00	-0.5514
	Continuing Calibration Blank1	V (292.401 nm)	-0.0001 u	> 100.00	12.1371
	Continuing Calibration Blank1	Y (360.074 nm)	1.02	0.11	527061.39
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.02	0.11	527336.90
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0000	35.17	17.1233
9/9/2024 21:13:04	R2408212-009	Ag (328.068 nm)	-0.0002 u	46.20	-121.8350
	R2408212-009	Al (237.312 nm)	0.0798	1.71	188.6636
	R2408212-009	As (188.980 nm)	-0.0012 u	76.31	-3.2111
	R2408212-009	B (249.772 nm)	0.0172	0.74	761.7496
	R2408212-009	Ba (230.424 nm)	0.0210	0.32	1283.3431
	R2408212-009	Be (313.107 nm)	0.0000	67.53	-5.1622
	R2408212-009	Ca (317.933 nm)	48.2263	0.12	1496064.1520
	R2408212-009	Cd (214.439 nm)	0.0001	35.96	14.7436
	R2408212-009	Co (230.786 nm)	0.0001	43.56	7.6037
	R2408212-009	Cr (267.716 nm)	0.0006	10.44	40.9538

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408212-009	Cu (327.395 nm)	0.0008	8.57	-103.8343
	R2408212-009	Fe (234.350 nm)	0.0707	1.04	1667.0380
	R2408212-009	K (766.491 nm)	1.6095	1.01	2344.9528
	R2408212-009	Mg (279.078 nm)	8.5085	0.10	34358.6026
	R2408212-009	Mn (257.610 nm)	0.0369	0.07	12808.1610
	R2408212-009	Mo (202.032 nm)	0.0020	21.36	27.6406
	R2408212-009	Na (588.995 nm)	12.3862	0.25	216357.1906
	R2408212-009	Ni (230.299 nm)	0.0138	3.29	178.0386
	R2408212-009	Pb (220.353 nm)	0.0001 u	> 100.00	2.0010
	R2408212-009	Sb (217.582 nm)	0.0074	24.50	24.0909
	R2408212-009	Se (196.026 nm)	-0.0004 u	> 100.00	1.5732
	R2408212-009	Si (252.851 nm)	4.0490	0.10	25860.6493
	R2408212-009	Sn (189.925 nm)	0.0016	28.80	7.1718
	R2408212-009	Sr (216.596 nm)	0.2192	0.26	4217.0071
	R2408212-009	Ti (336.122 nm)	0.0030	30.12	529.3573
	R2408212-009	Tl (190.794 nm)	0.0012	11.66	-0.4942
	R2408212-009	V (292.401 nm)	0.0003	29.07	24.7738
	R2408212-009	Y (360.074 nm)	0.99	0.30	512949.07
	R2408212-009	Y_R (360.074 nm)	0.99	0.30	513175.34
	R2408212-009	Zn (213.857 nm)	0.0023	2.10	151.0256
9/9/2024 21:16:17	R2408212-010	Ag (328.068 nm)	0.0000 u	> 100.00	-113.2581
	R2408212-010	Al (237.312 nm)	0.0031	38.08	-6.6683
	R2408212-010	As (188.980 nm)	0.0009	54.84	0.1347
	R2408212-010	B (249.772 nm)	0.0237	0.20	1033.9170
	R2408212-010	Ba (230.424 nm)	0.1349	0.07	8191.5180
	R2408212-010	Be (313.107 nm)	0.0000 u	> 100.00	-10.8098
	R2408212-010	Ca (317.933 nm)	132.0541 o	0.20	4094611.8125
	R2408212-010	Cd (214.439 nm)	0.0001	46.28	14.6944
	R2408212-010	Co (230.786 nm)	-0.0001 u	> 100.00	3.0691
	R2408212-010	Cr (267.716 nm)	0.0005	23.33	35.9732
	R2408212-010	Cu (327.395 nm)	0.0005	66.37	-115.6638
	R2408212-010	Fe (234.350 nm)	0.0614	0.50	1455.2175
	R2408212-010	K (766.491 nm)	0.9593	3.13	1546.9242
	R2408212-010	Mg (279.078 nm)	29.9248	0.06	120838.3078
	R2408212-010	Mn (257.610 nm)	0.1433	0.13	49769.7383
	R2408212-010	Mo (202.032 nm)	0.0012	30.11	19.5521
	R2408212-010	Na (588.995 nm)	22.6772	0.11	404671.6681
	R2408212-010	Ni (230.299 nm)	0.0187	1.16	241.1090
	R2408212-010	Pb (220.353 nm)	0.0001 u	> 100.00	1.9546
	R2408212-010	Sb (217.582 nm)	0.0035	22.28	15.2258
	R2408212-010	Se (196.026 nm)	-0.0003 u	> 100.00	1.5969
	R2408212-010	Si (252.851 nm)	5.6482	0.22	36054.5818
	R2408212-010	Sn (189.925 nm)	0.0006 u	> 100.00	4.7095
	R2408212-010	Sr (216.596 nm)	2.5942	0.04	49834.3733
	R2408212-010	Ti (336.122 nm)	0.0010	42.49	215.8337
	R2408212-010	Tl (190.794 nm)	0.0002 u	> 100.00	-1.4874
	R2408212-010	V (292.401 nm)	0.0001 u	> 100.00	19.7160
	R2408212-010	Y (360.074 nm)	0.97	0.28	498640.89
	R2408212-010	Y_R (360.074 nm)	0.97	0.28	498922.01
	R2408212-010	Zn (213.857 nm)	0.0013	6.53	93.5171
9/9/2024 21:19:31	R2408212-010S	Ag (328.068 nm)	0.0509	0.39	2743.7435
	R2408212-010S	Al (237.312 nm)	1.9821	0.20	5030.9008
	R2408212-010S	As (188.980 nm)	0.0405	2.99	63.5941
	R2408212-010S	B (249.772 nm)	0.9839	0.12	41192.9483
	R2408212-010S	Ba (230.424 nm)	2.0878	0.15	126737.4448
	R2408212-010S	Be (313.107 nm)	0.0505	0.06	60031.4876
	R2408212-010S	Ca (317.933 nm)	132.4549 o	0.12	4107034.4828

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408212-010S	Cd (214.439 nm)	0.0508	0.34	3058.8700
	R2408212-010S	Co (230.786 nm)	0.4897	0.14	9866.8720
	R2408212-010S	Cr (267.716 nm)	0.2030	0.12	11816.9232
	R2408212-010S	Cu (327.395 nm)	0.2449	0.01	10817.5488
	R2408212-010S	Fe (234.350 nm)	1.0733	0.11	24589.3476
	R2408212-010S	K (766.491 nm)	21.7951	0.46	27121.8366
	R2408212-010S	Mg (279.078 nm)	31.6999	0.11	128005.9207
	R2408212-010S	Mn (257.610 nm)	0.6281	0.11	218096.9127
	R2408212-010S	Mo (202.032 nm)	0.4999	0.77	5366.3282
	R2408212-010S	Na (588.995 nm)	42.0118	0.37	758477.1677
	R2408212-010S	Ni (230.299 nm)	0.4978	0.09	6330.1305
	R2408212-010S	Pb (220.353 nm)	0.5100	0.24	2572.1522
	R2408212-010S	Sb (217.582 nm)	0.5141	0.67	1186.1088
	R2408212-010S	Se (196.026 nm)	1.0354	1.16	811.9790
	R2408212-010S	Si (252.851 nm)	5.9485	0.03	37968.6201
	R2408212-010S	Sn (189.925 nm)	5.0678	0.08	13249.7165
	R2408212-010S	Sr (216.596 nm)	4.5272	0.18	86962.6928
	R2408212-010S	Ti (336.122 nm)	0.5022	0.19	76878.3562
	R2408212-010S	Tl (190.794 nm)	1.9561	0.33	1872.6818
	R2408212-010S	V (292.401 nm)	0.5044	0.08	18481.1154
	R2408212-010S	Y (360.074 nm)	0.96	0.14	495370.97
	R2408212-010S	Y_R (360.074 nm)	0.96	0.14	495666.65
	R2408212-010S	Zn (213.857 nm)	0.5032	0.13	29872.1531
9/9/2024 21:22:44	R2408212-010SD	Ag (328.068 nm)	0.0500	0.14	2693.0885
	R2408212-010SD	Al (237.312 nm)	1.9535	0.16	4958.0642
	R2408212-010SD	As (188.980 nm)	0.0389	5.72	61.0317
	R2408212-010SD	B (249.772 nm)	0.9683	0.06	40541.4295
	R2408212-010SD	Ba (230.424 nm)	2.0597	0.23	125029.1691
	R2408212-010SD	Be (313.107 nm)	0.0496	0.08	59067.6809
	R2408212-010SD	Ca (317.933 nm)	132.9237 o	0.17	4121568.6517
	R2408212-010SD	Cd (214.439 nm)	0.0500	0.21	3009.7073
	R2408212-010SD	Co (230.786 nm)	0.4819	0.16	9708.3309
	R2408212-010SD	Cr (267.716 nm)	0.1996	0.23	11617.9655
	R2408212-010SD	Cu (327.395 nm)	0.2409	0.17	10637.4411
	R2408212-010SD	Fe (234.350 nm)	1.0591	0.11	24264.2250
	R2408212-010SD	K (766.491 nm)	21.4336	0.24	26678.0596
	R2408212-010SD	Mg (279.078 nm)	31.7750	0.12	128309.2246
	R2408212-010SD	Mn (257.610 nm)	0.6205	0.14	215469.6978
	R2408212-010SD	Mo (202.032 nm)	0.5080	0.71	5452.5470
	R2408212-010SD	Na (588.995 nm)	41.6967	0.21	752710.7135
	R2408212-010SD	Ni (230.299 nm)	0.4909	0.10	6242.8346
	R2408212-010SD	Pb (220.353 nm)	0.5010	0.26	2526.9152
	R2408212-010SD	Sb (217.582 nm)	0.5185	0.28	1196.3428
	R2408212-010SD	Se (196.026 nm)	1.0396	0.59	815.3183
	R2408212-010SD	Si (252.851 nm)	5.9656	0.10	38077.6209
	R2408212-010SD	Sn (189.925 nm)	5.0833	0.13	13290.2453
	R2408212-010SD	Sr (216.596 nm)	4.5504	0.24	87408.7277
	R2408212-010SD	Ti (336.122 nm)	0.5081	0.13	77778.3787
	R2408212-010SD	Tl (190.794 nm)	1.9285	0.12	1846.2754
	R2408212-010SD	V (292.401 nm)	0.4964	0.18	18186.0425
	R2408212-010SD	Y (360.074 nm)	0.96	0.16	494763.13
	R2408212-010SD	Y_R (360.074 nm)	0.96	0.16	495031.76
	R2408212-010SD	Zn (213.857 nm)	0.4948	0.12	29373.9832
9/9/2024 21:25:58	R2408212-010A	Ag (328.068 nm)	0.0492	0.38	2645.4766
	R2408212-010A	Al (237.312 nm)	1.9312	0.21	4901.3491
	R2408212-010A	As (188.980 nm)	0.0387	3.76	60.6316
	R2408212-010A	B (249.772 nm)	0.9621	0.06	40280.7067

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408212-010A	Ba (230.424 nm)	2.0279	0.17	123097.1263
	R2408212-010A	Be (313.107 nm)	0.0491	0.15	58398.9283
	R2408212-010A	Ca (317.933 nm)	129.9885 o	0.20	4030580.9958
	R2408212-010A	Cd (214.439 nm)	0.0495	0.31	2981.5737
	R2408212-010A	Co (230.786 nm)	0.4771	0.19	9613.2954
	R2408212-010A	Cr (267.716 nm)	0.1975	0.01	11498.7629
	R2408212-010A	Cu (327.395 nm)	0.2389	0.03	10548.3515
	R2408212-010A	Fe (234.350 nm)	1.0446	0.14	23932.3037
	R2408212-010A	K (766.491 nm)	21.1859	0.16	26374.0106
	R2408212-010A	Mg (279.078 nm)	31.0956	0.08	125565.9996
	R2408212-010A	Mn (257.610 nm)	0.6116	0.12	212366.5082
	R2408212-010A	Mo (202.032 nm)	0.4810	0.58	5163.1941
	R2408212-010A	Na (588.995 nm)	40.8823	0.21	737807.0800
	R2408212-010A	Ni (230.299 nm)	0.4841	0.11	6155.6545
	R2408212-010A	Pb (220.353 nm)	0.4970	0.11	2506.6602
	R2408212-010A	Sb (217.582 nm)	0.4884	0.88	1127.1370
	R2408212-010A	Se (196.026 nm)	1.0126	0.38	794.1274
	R2408212-010A	Si (252.851 nm)	5.8224	0.01	37164.9743
	R2408212-010A	Sn (189.925 nm)	4.9560	0.07	12957.6205
	R2408212-010A	Sr (216.596 nm)	4.4368	0.10	85227.7253
	R2408212-010A	Ti (336.122 nm)	0.4861	0.15	74413.7684
	R2408212-010A	Tl (190.794 nm)	1.8979	0.07	1816.9807
	R2408212-010A	V (292.401 nm)	0.4897	0.15	17941.6251
	R2408212-010A	Y (360.074 nm)	0.96	0.17	495847.77
	R2408212-010A	Y_R (360.074 nm)	0.96	0.17	496226.05
	R2408212-010A	Zn (213.857 nm)	0.4941	0.08	29331.2576
9/9/2024 21:29:11	R2408212-010L 5X	Ag (328.068 nm)	-0.0001 u	15.63	-120.2593
	R2408212-010L 5X	Al (237.312 nm)	0.0034	38.40	-5.8966
	R2408212-010L 5X	As (188.980 nm)	0.0002 u	> 100.00	-1.1138
	R2408212-010L 5X	B (249.772 nm)	0.0057	5.35	281.4186
	R2408212-010L 5X	Ba (230.424 nm)	0.0273	0.42	1663.1361
	R2408212-010L 5X	Be (313.107 nm)	0.0000	24.77	5.0188
	R2408212-010L 5X	Ca (317.933 nm)	27.2613	0.07	846177.0614
	R2408212-010L 5X	Cd (214.439 nm)	0.0000 u	> 100.00	12.2016
	R2408212-010L 5X	Co (230.786 nm)	-0.0002 u	44.86	1.4973
	R2408212-010L 5X	Cr (267.716 nm)	0.0002	43.73	13.9239
	R2408212-010L 5X	Cu (327.395 nm)	-0.0001 u	> 100.00	-142.2982
	R2408212-010L 5X	Fe (234.350 nm)	0.0154	2.43	402.8154
	R2408212-010L 5X	K (766.491 nm)	0.1971	9.99	611.3099
	R2408212-010L 5X	Mg (279.078 nm)	6.0564	0.03	24456.9581
	R2408212-010L 5X	Mn (257.610 nm)	0.0291	0.13	10108.4193
	R2408212-010L 5X	Mo (202.032 nm)	0.0047	22.23	57.5830
	R2408212-010L 5X	Na (588.995 nm)	4.3943	0.36	70113.5673
	R2408212-010L 5X	Ni (230.299 nm)	0.0037	8.80	49.4329
	R2408212-010L 5X	Pb (220.353 nm)	0.0003 u	> 100.00	3.1024
	R2408212-010L 5X	Sb (217.582 nm)	0.0037	31.59	15.6443
	R2408212-010L 5X	Se (196.026 nm)	0.0041	25.44	5.0596
	R2408212-010L 5X	Si (252.851 nm)	1.1455	0.20	7352.3269
	R2408212-010L 5X	Sn (189.925 nm)	0.0035	23.00	12.2668
	R2408212-010L 5X	Sr (216.596 nm)	0.5245	0.05	10079.6769
	R2408212-010L 5X	Ti (336.122 nm)	0.0021	33.32	396.2544
	R2408212-010L 5X	Tl (190.794 nm)	0.0024	70.63	0.6605
	R2408212-010L 5X	V (292.401 nm)	0.0000 u	> 100.00	14.7887
	R2408212-010L 5X	Y (360.074 nm)	1.01	0.13	519846.17
	R2408212-010L 5X	Y_R (360.074 nm)	1.01	0.14	520142.44
	R2408212-010L 5X	Zn (213.857 nm)	0.0002	24.24	23.8670
9/9/2024 21:32:25	R2408212-011	Ag (328.068 nm)	-0.0001 u	> 100.00	-117.6992

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408212-011	Al (237.312 nm)	0.0416	0.43	91.3755
	R2408212-011	As (188.980 nm)	-0.0007 u	> 100.00	-2.4829
	R2408212-011	B (249.772 nm)	0.0166	0.95	734.0280
	R2408212-011	Ba (230.424 nm)	0.0223	0.25	1362.0941
	R2408212-011	Be (313.107 nm)	0.0000	12.22	4.4368
	R2408212-011	Ca (317.933 nm)	55.0068 o	0.15	1706248.9463
	R2408212-011	Cd (214.439 nm)	0.0001	80.81	13.2544
	R2408212-011	Co (230.786 nm)	0.0001 u	> 100.00	6.5442
	R2408212-011	Cr (267.716 nm)	0.0005	0.42	35.1332
	R2408212-011	Cu (327.395 nm)	0.0007	31.43	-110.5907
	R2408212-011	Fe (234.350 nm)	0.0368	1.23	891.4758
	R2408212-011	K (766.491 nm)	1.6102	0.61	2345.8001
	R2408212-011	Mg (279.078 nm)	9.5075	0.21	38392.5167
	R2408212-011	Mn (257.610 nm)	0.0388	0.19	13494.7882
	R2408212-011	Mo (202.032 nm)	0.0018	27.98	25.5541
	R2408212-011	Na (588.995 nm)	12.3549	0.14	215783.2407
	R2408212-011	Ni (230.299 nm)	0.0124	2.55	160.7279
	R2408212-011	Pb (220.353 nm)	0.0001	> 100.00	2.1281
	R2408212-011	Sb (217.582 nm)	0.0032	32.93	14.4607
	R2408212-011	Se (196.026 nm)	0.0025	62.65	3.8464
	R2408212-011	Si (252.851 nm)	3.7801	0.16	24146.3127
	R2408212-011	Sn (189.925 nm)	0.0022	57.76	8.7947
	R2408212-011	Sr (216.596 nm)	0.2505	0.27	4816.8936
	R2408212-011	Ti (336.122 nm)	0.0012	32.96	258.2086
	R2408212-011	Tl (190.794 nm)	0.0008 u	> 100.00	-0.9241
	R2408212-011	V (292.401 nm)	0.0003	7.18	25.7676
	R2408212-011	Y (360.074 nm)	1.00	0.18	513645.04
	R2408212-011	Y_R (360.074 nm)	1.00	0.18	513956.38
	R2408212-011	Zn (213.857 nm)	0.0017	4.43	112.8801
9/9/2024 21:35:38	Continuing Calibration Verification1	Ag (328.068 nm)	0.5038	0.07	28148.6937
	Continuing Calibration Verification1	Al (237.312 nm)	9.6319	0.12	24503.0495
	Continuing Calibration Verification1	As (188.980 nm)	0.9985	0.16	1599.6645
	Continuing Calibration Verification1	B (249.772 nm)	2.3204	0.08	97088.6419
	Continuing Calibration Verification1	Ba (230.424 nm)	9.8446	0.40	597575.3429
	Continuing Calibration Verification1	Be (313.107 nm)	0.2476	0.12	294680.6316
	Continuing Calibration Verification1	Ca (317.933 nm)	26.1670	0.21	812256.4328
	Continuing Calibration Verification1	Cd (214.439 nm)	0.5132	0.22	30806.6642
	Continuing Calibration Verification1	Co (230.786 nm)	2.5140	0.32	50630.2733
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5175	0.18	30118.4098
	Continuing Calibration Verification1	Cu (327.395 nm)	1.2048	0.49	53764.6504
	Continuing Calibration Verification1	Fe (234.350 nm)	4.9675	0.15	113622.2600
	Continuing Calibration Verification1	K (766.491 nm)	24.7265	0.24	30719.9658
	Continuing Calibration Verification1	Mg (279.078 nm)	26.1973	0.19	105786.2271
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7360	0.18	255561.1424
	Continuing Calibration Verification1	Mo (202.032 nm)	2.5705	0.30	27565.3416
	Continuing Calibration Verification1	Na (588.995 nm)	23.9336	0.31	427663.4802
	Continuing Calibration Verification1	Ni (230.299 nm)	2.0283	0.16	25782.6806
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5083	0.07	2563.4788
	Continuing Calibration Verification1	Sb (217.582 nm)	4.9520	0.18	11363.3902
	Continuing Calibration Verification1	Se (196.026 nm)	0.4934	0.52	387.9506
	Continuing Calibration Verification1	Si (252.851 nm)	9.9283	0.90	63337.5101
	Continuing Calibration Verification1	Sn (189.925 nm)	5.1233	0.15	13394.9921
	Continuing Calibration Verification1	Sr (216.596 nm)	2.5539	0.31	49061.1326
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5531	0.20	390528.6460
	Continuing Calibration Verification1	Tl (190.794 nm)	0.9998	0.26	956.3713
	Continuing Calibration Verification1	V (292.401 nm)	2.5474	0.15	93271.8912
	Continuing Calibration Verification1	Y (360.074 nm)	0.98	0.41	504077.05

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.98	0.41	504362.89
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9935	0.16	58966.8438
9/9/2024 21:38:52	Continuing Calibration Blank1	Ag (328.068 nm)	-0.0002 u	80.94	-123.8217
	Continuing Calibration Blank1	Al (237.312 nm)	0.0016 u	> 100.00	-10.3544
	Continuing Calibration Blank1	As (188.980 nm)	-0.0002 u	> 100.00	-1.6889
	Continuing Calibration Blank1	B (249.772 nm)	0.0018	13.53	118.0014
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0004	7.98	29.9839
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000 u	> 100.00	-16.0211
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0051	7.10	1270.8173
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000 u	> 100.00	9.4101
	Continuing Calibration Blank1	Co (230.786 nm)	-0.0001 u	78.52	2.6407
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0001	25.46	7.5762
	Continuing Calibration Blank1	Cu (327.395 nm)	-0.0001 u	> 100.00	-143.8246
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0047	22.45	157.1266
	Continuing Calibration Blank1	K (766.491 nm)	-0.0037 u	> 100.00	364.9085
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0003 u	> 100.00	2.2749
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0000	19.22	29.1349
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0069	18.16	80.6945
	Continuing Calibration Blank1	Na (588.995 nm)	-0.0562 u	4.85	-11327.0946
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0001 u	> 100.00	4.3565
	Continuing Calibration Blank1	Pb (220.353 nm)	0.0001 u	> 100.00	1.9870
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0099	4.02	30.0102
	Continuing Calibration Blank1	Se (196.026 nm)	-0.0001 u	> 100.00	1.7762
	Continuing Calibration Blank1	Si (252.851 nm)	0.0092	25.96	108.9432
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0014	44.36	6.6818
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0001	76.78	8.1864
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0068	24.69	1110.8397
	Continuing Calibration Blank1	Tl (190.794 nm)	0.0005	57.55	-1.1766
	Continuing Calibration Blank1	V (292.401 nm)	0.0000 u	> 100.00	13.6728
	Continuing Calibration Blank1	Y (360.074 nm)	1.02	0.11	527935.49
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.02	0.11	528215.79
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0000	> 100.00	17.0711
9/9/2024 21:42:06	R2408411-002 10X	Ag (328.068 nm)	0.0014	11.17	-33.6667
	R2408411-002 10X	Al (237.312 nm)	-0.0811 u	4.20	-220.9859
	R2408411-002 10X	As (188.980 nm)	0.0050	33.25	6.7118
	R2408411-002 10X	B (249.772 nm)	0.1154	3.63	4867.6880
	R2408411-002 10X	Ba (230.424 nm)	0.0010	11.49	68.5974
	R2408411-002 10X	Be (313.107 nm)	0.0000	57.65	-2.6738
	R2408411-002 10X	Ca (317.933 nm)	0.1765	4.25	6584.7998
	R2408411-002 10X	Cd (214.439 nm)	0.0010	4.94	68.2506
	R2408411-002 10X	Co (230.786 nm)	0.0021	5.26	47.8239
	R2408411-002 10X	Cr (267.716 nm)	0.1987	4.77	11564.1743
	R2408411-002 10X	Cu (327.395 nm)	0.0018	14.27	-58.6239
	R2408411-002 10X	Fe (234.350 nm)	0.1452	3.72	3369.6547
	R2408411-002 10X	K (766.491 nm)	1.8774	7.37	2673.8727
	R2408411-002 10X	Mg (279.078 nm)	0.0298	6.11	121.6530
	R2408411-002 10X	Mn (257.610 nm)	0.0022	5.00	785.8605
	R2408411-002 10X	Mo (202.032 nm)	0.0051	16.26	61.2682
	R2408411-002 10X	Na (588.995 nm)	0.9486	4.72	7060.3049
	R2408411-002 10X	Ni (230.299 nm)	0.0154	3.20	198.7534
	R2408411-002 10X	Pb (220.353 nm)	-0.0034 u	11.97	-15.6554
	R2408411-002 10X	Sb (217.582 nm)	0.0705	7.10	168.8380
	R2408411-002 10X	Se (196.026 nm)	0.0152	1.27	13.7261
	R2408411-002 10X	Si (252.851 nm)	0.2281	2.90	1504.3942
	R2408411-002 10X	Sn (189.925 nm)	0.0031	49.42	11.0184
	R2408411-002 10X	Sr (216.596 nm)	0.0008	18.65	20.5048
	R2408411-002 10X	Ti (336.122 nm)	0.0120	3.11	1898.1119

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408411-002 10X	Tl (190.794 nm)	-0.0036 u	61.82	-5.1186
	R2408411-002 10X	V (292.401 nm)	0.0001 u	> 100.00	17.4149
	R2408411-002 10X	Y (360.074 nm)	0.98	0.24	503487.48
	R2408411-002 10X	Y_R (360.074 nm)	0.98	0.24	503760.62
	R2408411-002 10X	Zn (213.857 nm)	0.0192	3.29	1154.4508
9/9/2024 21:45:20	R2408411-003	Ag (328.068 nm)	0.0000 u	> 100.00	-110.3113
	R2408411-003	Al (237.312 nm)	0.1584	1.52	388.8270
	R2408411-003	As (188.980 nm)	0.0003 u	> 100.00	-0.9180
	R2408411-003	B (249.772 nm)	0.0256	0.86	1112.5592
	R2408411-003	Ba (230.424 nm)	0.0249	0.53	1520.3040
	R2408411-003	Be (313.107 nm)	0.0000 u	> 100.00	-14.0834
	R2408411-003	Ca (317.933 nm)	35.3329	0.07	1096385.5829
	R2408411-003	Cd (214.439 nm)	0.0001	50.64	15.6553
	R2408411-003	Co (230.786 nm)	0.0000 u	> 100.00	5.6519
	R2408411-003	Cr (267.716 nm)	0.0016	0.43	95.6807
	R2408411-003	Cu (327.395 nm)	0.0060	1.97	127.6704
	R2408411-003	Fe (234.350 nm)	0.1184	0.05	2757.1563
	R2408411-003	K (766.491 nm)	1.6216	0.52	2359.8625
	R2408411-003	Mg (279.078 nm)	9.4562	0.17	38185.4121
	R2408411-003	Mn (257.610 nm)	0.0022	0.44	786.8656
	R2408411-003	Mo (202.032 nm)	0.0021	4.37	29.1898
	R2408411-003	Na (588.995 nm)	14.0764	0.34	247286.0504
	R2408411-003	Ni (230.299 nm)	0.0021	7.90	29.2472
	R2408411-003	Pb (220.353 nm)	0.0008	90.19	5.4488
	R2408411-003	Sb (217.582 nm)	0.0103	16.26	30.9323
	R2408411-003	Se (196.026 nm)	-0.0016 u	> 100.00	0.6232
	R2408411-003	Si (252.851 nm)	0.4609	0.60	2988.4660
	R2408411-003	Sn (189.925 nm)	0.0039	12.06	13.2192
	R2408411-003	Sr (216.596 nm)	0.1846	0.27	3551.1130
	R2408411-003	Ti (336.122 nm)	0.0040	10.84	685.8766
	R2408411-003	Tl (190.794 nm)	0.0005 u	> 100.00	-1.1366
	R2408411-003	V (292.401 nm)	0.0002	40.87	22.1196
	R2408411-003	Y (360.074 nm)	0.98	0.45	507383.79
	R2408411-003	Y_R (360.074 nm)	0.98	0.45	507693.69
	R2408411-003	Zn (213.857 nm)	0.0745	0.15	4434.6984
9/9/2024 21:48:34	R2408411-005	Ag (328.068 nm)	0.0019	5.13	-5.9179
	R2408411-005	Al (237.312 nm)	12.0896	0.04	30759.0111
	R2408411-005	As (188.980 nm)	0.0120	2.30	17.9304
	R2408411-005	B (249.772 nm)	0.1301	0.34	5484.5581
	R2408411-005	Ba (230.424 nm)	0.1478	0.36	8978.6408
	R2408411-005	Be (313.107 nm)	0.0006	1.81	745.0450
	R2408411-005	Ca (317.933 nm)	151.7089 o	0.09	4703884.4795
	R2408411-005	Cd (214.439 nm)	0.0013	1.75	88.2562
	R2408411-005	Co (230.786 nm)	0.0052	7.96	109.6353
	R2408411-005	Cr (267.716 nm)	0.0504	0.22	2935.0804
	R2408411-005	Cu (327.395 nm)	1.2781	0.38	57046.4622
	R2408411-005	Fe (234.350 nm)	45.2927 o	0.18	1035569.5542
	R2408411-005	K (766.491 nm)	47.0235	0.01	58088.4913
	R2408411-005	Mg (279.078 nm)	23.5532	0.07	95109.6175
	R2408411-005	Mn (257.610 nm)	0.5824	0.12	202215.1623
	R2408411-005	Mo (202.032 nm)	0.0122	0.83	137.4168
	R2408411-005	Na (588.995 nm)	147.6572 o	0.08	2691683.9412
	R2408411-005	Ni (230.299 nm)	0.0316	1.05	405.0284
	R2408411-005	Pb (220.353 nm)	0.0626	0.70	317.1538
	R2408411-005	Sb (217.582 nm)	0.0046	20.81	17.6504
	R2408411-005	Se (196.026 nm)	-0.0032 u	> 100.00	-0.6074
	R2408411-005	Si (252.851 nm)	3.7998	0.24	24271.9271

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408411-005	Sn (189.925 nm)	0.0400	2.06	107.4645
	R2408411-005	Sr (216.596 nm)	0.3660	0.05	7036.7812
	R2408411-005	Ti (336.122 nm)	0.1509	0.33	23143.4021
	R2408411-005	Tl (190.794 nm)	0.0004 u	> 100.00	-1.2805
	R2408411-005	V (292.401 nm)	0.0207	0.64	770.7476
	R2408411-005	Y (360.074 nm)	0.94	0.48	483598.77
	R2408411-005	Y_R (360.074 nm)	0.94	0.49	483946.50
	R2408411-005	Zn (213.857 nm)	1.9850	0.21	117797.4802
9/9/2024 21:51:47	R2408411-006	Ag (328.068 nm)	0.0231	2.40	1185.4064
	R2408411-006	Al (237.312 nm)	0.5228	0.51	1316.2745
	R2408411-006	As (188.980 nm)	0.0214	30.61	32.9806
	R2408411-006	B (249.772 nm)	8.5844	0.22	359076.3598
	R2408411-006	Ba (230.424 nm)	0.0613	0.61	3726.7108
	R2408411-006	Be (313.107 nm)	0.0102	0.43	12119.4089
	R2408411-006	Ca (317.933 nm)	32.3793	0.67	1004828.2674
	R2408411-006	Cd (214.439 nm)	0.2077	0.76	12471.7536
	R2408411-006	Co (230.786 nm)	0.0279	0.99	566.9604
	R2408411-006	Cr (267.716 nm)	4.1751 o	0.09	242958.1231
	R2408411-006	Cu (327.395 nm)	2.2970	1.04	102631.2500
	R2408411-006	Fe (234.350 nm)	0.6443	0.50	14782.0564
	R2408411-006	K (766.491 nm)	18.5484	1.02	23136.6537
	R2408411-006	Mg (279.078 nm)	7.7961	0.69	31482.1186
	R2408411-006	Mn (257.610 nm)	0.0150	0.45	5207.9675
	R2408411-006	Mo (202.032 nm)	0.3684	0.58	3956.0271
	R2408411-006	Na (588.995 nm)	1061.6525 o	0.37	19416906.2149
	R2408411-006	Ni (230.299 nm)	0.1064	0.60	1355.1316
	R2408411-006	Pb (220.353 nm)	0.0152	4.23	77.7945
	R2408411-006	Sb (217.582 nm)	0.0745	6.08	178.0088
	R2408411-006	Se (196.026 nm)	0.0414	14.51	34.2551
	R2408411-006	Si (252.851 nm)	2.1632	0.99	13839.6935
	R2408411-006	Sn (189.925 nm)	0.0105	14.14	30.4343
	R2408411-006	Sr (216.596 nm)	0.1635	0.75	3145.6569
	R2408411-006	Ti (336.122 nm)	2.0639	0.60	315717.8220
	R2408411-006	Tl (190.794 nm)	-0.1012 u	1.84	-98.5775
	R2408411-006	V (292.401 nm)	0.1606	0.45	5892.8579
	R2408411-006	Y (360.074 nm)	0.63	0.29	323815.15
	R2408411-006	Y_R (360.074 nm)	0.63	0.30	324130.04
	R2408411-006	Zn (213.857 nm)	1.2237	1.18	72627.7997
9/9/2024 21:55:02	R2408411-007	Ag (328.068 nm)	0.0179	2.52	894.5601
	R2408411-007	Al (237.312 nm)	105.8254 o	0.08	269359.8075
	R2408411-007	As (188.980 nm)	11.4844 o	0.27	18413.1615
	R2408411-007	B (249.772 nm)	10.1306	0.07	423744.1187
	R2408411-007	Ba (230.424 nm)	0.0389	0.37	2366.0436
	R2408411-007	Be (313.107 nm)	0.0235	0.33	27980.1323
	R2408411-007	Ca (317.933 nm)	55.9633 o	0.48	1735899.7086
	R2408411-007	Cd (214.439 nm)	0.6194	0.47	37178.5778
	R2408411-007	Co (230.786 nm)	0.0262	1.27	532.5457
	R2408411-007	Cr (267.716 nm)	2.7593 o	0.07	160570.9376
	R2408411-007	Cu (327.395 nm)	0.4594	0.27	20415.6137
	R2408411-007	Fe (234.350 nm)	39.2187 o	0.32	896701.3842
	R2408411-007	K (766.491 nm)	300.7541 o	0.15	369530.4957
	R2408411-007	Mg (279.078 nm)	13.1366	0.41	53047.0559
	R2408411-007	Mn (257.610 nm)	0.7032	0.11	244152.1912
	R2408411-007	Mo (202.032 nm)	0.4814	0.30	5167.6587
	R2408411-007	Na (588.995 nm)	318.5317 o	0.12	5818521.5382
	R2408411-007	Ni (230.299 nm)	0.2970	0.32	3778.3271
	R2408411-007	Pb (220.353 nm)	0.1153	1.44	582.7618

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408411-007	Sb (217.582 nm)	0.3041	1.37	704.6665
	R2408411-007	Se (196.026 nm)	0.0765	10.52	61.7166
	R2408411-007	Si (252.851 nm)	10.0138	0.29	63882.4108
	R2408411-007	Sn (189.925 nm)	0.0376	6.89	101.2743
	R2408411-007	Sr (216.596 nm)	0.2543	0.95	4889.7358
	R2408411-007	Ti (336.122 nm)	0.5069	0.23	77597.3069
	R2408411-007	Tl (190.794 nm)	1.1360	0.33	1086.8739
	R2408411-007	V (292.401 nm)	1.5427	0.22	56490.5154
	R2408411-007	Y (360.074 nm)	0.65	0.51	335090.75
	R2408411-007	Y_R (360.074 nm)	0.65	0.51	335407.14
	R2408411-007	Zn (213.857 nm)	32.1615 o	0.34	1908389.4171
9/9/2024 21:58:15	R2408411-008	Ag (328.068 nm)	-0.0003 u	13.67	-126.5336
	R2408411-008	Al (237.312 nm)	291.5800 o	0.64	742190.6505
	R2408411-008	As (188.980 nm)	0.0023	> 100.00	2.3207
	R2408411-008	B (249.772 nm)	0.0352	11.54	1515.1683
	R2408411-008	Ba (230.424 nm)	0.0051	2.89	314.8149
	R2408411-008	Be (313.107 nm)	0.0020	0.36	2405.9250
	R2408411-008	Ca (317.933 nm)	1.1181	0.65	35772.6326
	R2408411-008	Cd (214.439 nm)	-0.0001 u	> 100.00	6.5785
	R2408411-008	Co (230.786 nm)	0.0006	44.09	16.9893
	R2408411-008	Cr (267.716 nm)	0.0119	2.30	693.8338
	R2408411-008	Cu (327.395 nm)	0.0096	1.69	290.3118
	R2408411-008	Fe (234.350 nm)	0.4451	0.59	10226.9482
	R2408411-008	K (766.491 nm)	30.8419	20.08	38226.3978
	R2408411-008	Mg (279.078 nm)	0.0133	0.92	54.6714
	R2408411-008	Mn (257.610 nm)	0.0015	6.43	527.6749
	R2408411-008	Mo (202.032 nm)	0.0018	36.35	25.5449
	R2408411-008	Na (588.995 nm)	1852.1894 o	3.86	33882960.6884
	R2408411-008	Ni (230.299 nm)	0.0208	1.77	267.4125
	R2408411-008	Pb (220.353 nm)	-0.0021 u	55.75	-9.2567
	R2408411-008	Sb (217.582 nm)	0.0079	11.76	25.3664
	R2408411-008	Se (196.026 nm)	-0.0001 u	> 100.00	1.7591
	R2408411-008	Si (252.851 nm)	5.6593	0.07	36125.2132
	R2408411-008	Sn (189.925 nm)	0.0030	5.30	10.9612
	R2408411-008	Sr (216.596 nm)	0.0353	0.37	684.3500
	R2408411-008	Ti (336.122 nm)	0.0069	12.31	1130.9702
	R2408411-008	Tl (190.794 nm)	0.0069	25.56	4.9439
	R2408411-008	V (292.401 nm)	0.0020	3.92	88.6099
	R2408411-008	Y (360.074 nm)	0.75	0.38	385305.47
	R2408411-008	Y_R (360.074 nm)	0.75	0.38	385679.35
	R2408411-008	Zn (213.857 nm)	0.1089	2.61	6476.3014
9/9/2024 22:01:29	R2408411-009	Ag (328.068 nm)	-0.0002 u	63.56	-122.9601
	R2408411-009	Al (237.312 nm)	1.1658	0.19	2952.9134
	R2408411-009	As (188.980 nm)	0.0026	48.55	2.7799
	R2408411-009	B (249.772 nm)	0.0234	0.88	1021.2983
	R2408411-009	Ba (230.424 nm)	0.0385	0.31	2340.2997
	R2408411-009	Be (313.107 nm)	0.0000 u	> 100.00	-12.5977
	R2408411-009	Ca (317.933 nm)	31.4524	0.18	976096.0539
	R2408411-009	Cd (214.439 nm)	0.0002	38.73	19.0333
	R2408411-009	Co (230.786 nm)	0.0031	3.48	67.8303
	R2408411-009	Cr (267.716 nm)	0.0534	0.11	3112.1913
	R2408411-009	Cu (327.395 nm)	0.0099	2.48	304.6413
	R2408411-009	Fe (234.350 nm)	0.6966	0.45	15977.0079
	R2408411-009	K (766.491 nm)	2.0305	2.95	2861.7038
	R2408411-009	Mg (279.078 nm)	7.9669	0.09	32171.4727
	R2408411-009	Mn (257.610 nm)	0.0094	0.24	3285.6591
	R2408411-009	Mo (202.032 nm)	0.0035	2.67	43.9476

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408411-009	Na (588.995 nm)	15.0779	3.50	265612.9410
	R2408411-009	Ni (230.299 nm)	0.0169	2.06	218.4034
	R2408411-009	Pb (220.353 nm)	0.0024	43.87	13.4551
	R2408411-009	Sb (217.582 nm)	0.0017	56.80	11.1254
	R2408411-009	Se (196.026 nm)	-0.0007 u	> 100.00	1.3045
	R2408411-009	Si (252.851 nm)	0.6323	0.87	4080.9086
	R2408411-009	Sn (189.925 nm)	0.0070	6.95	21.2381
	R2408411-009	Sr (216.596 nm)	0.1617	0.15	3111.0010
	R2408411-009	Ti (336.122 nm)	0.0099	5.81	1580.5650
	R2408411-009	Tl (190.794 nm)	0.0039	10.75	2.0513
	R2408411-009	V (292.401 nm)	0.0007	20.72	40.2061
	R2408411-009	Y (360.074 nm)	0.99	0.39	512874.32
	R2408411-009	Y_R (360.074 nm)	0.99	0.39	513196.09
	R2408411-009	Zn (213.857 nm)	0.8785	0.21	52142.8151
9/9/2024 22:04:42	R2408411-010	Ag (328.068 nm)	-0.0003 u	> 100.00	-128.1053
	R2408411-010	Al (237.312 nm)	7.8033	0.21	19848.4273
	R2408411-010	As (188.980 nm)	0.0086	21.29	12.4245
	R2408411-010	B (249.772 nm)	0.0240	0.90	1044.2839
	R2408411-010	Ba (230.424 nm)	0.0048	3.31	297.5043
	R2408411-010	Be (313.107 nm)	0.0000 u	65.70	-20.4109
	R2408411-010	Ca (317.933 nm)	0.2061	0.48	7503.4124
	R2408411-010	Cd (214.439 nm)	0.0001	44.15	16.6153
	R2408411-010	Co (230.786 nm)	0.0007	21.43	19.0831
	R2408411-010	Cr (267.716 nm)	0.0007	21.10	44.6930
	R2408411-010	Cu (327.395 nm)	0.0127	1.06	430.2050
	R2408411-010	Fe (234.350 nm)	0.1214	1.82	2826.8419
	R2408411-010	K (766.491 nm)	896.1562 o	0.54	1100357.8627
	R2408411-010	Mg (279.078 nm)	0.0008	28.83	4.1740
	R2408411-010	Mn (257.610 nm)	0.0017	0.83	612.8204
	R2408411-010	Mo (202.032 nm)	0.0023	14.00	31.9047
	R2408411-010	Na (588.995 nm)	1460.7808 o	2.24	26720565.9904
	R2408411-010	Ni (230.299 nm)	0.0887	4.17	1130.0421
	R2408411-010	Pb (220.353 nm)	0.0037	15.02	20.0529
	R2408411-010	Sb (217.582 nm)	0.0021 u	94.31	12.0136
	R2408411-010	Se (196.026 nm)	0.0012 u	> 100.00	2.7690
	R2408411-010	Si (252.851 nm)	26.7041	3.54	170273.4434
	R2408411-010	Sn (189.925 nm)	0.0043	19.13	14.2153
	R2408411-010	Sr (216.596 nm)	0.0117	1.25	231.4282
	R2408411-010	Ti (336.122 nm)	0.0022	15.18	407.9119
	R2408411-010	Tl (190.794 nm)	0.0007 u	> 100.00	-0.9780
	R2408411-010	V (292.401 nm)	0.0289	0.48	1071.5533
	R2408411-010	Y (360.074 nm)	0.77	0.66	395521.26
	R2408411-010	Y_R (360.074 nm)	0.77	0.66	395931.94
	R2408411-010	Zn (213.857 nm)	0.2465	0.14	14639.3265
9/9/2024 22:07:55	R2408411-002 50X	Ag (328.068 nm)	0.0001 u	> 100.00	-107.5607
	R2408411-002 50X	Al (237.312 nm)	0.0031	31.11	-6.5417
	R2408411-002 50X	As (188.980 nm)	0.0017	55.67	1.4386
	R2408411-002 50X	B (249.772 nm)	0.0232	0.07	1011.3191
	R2408411-002 50X	Ba (230.424 nm)	0.0002	39.45	19.0905
	R2408411-002 50X	Be (313.107 nm)	0.0000 u	> 100.00	-9.3310
	R2408411-002 50X	Ca (317.933 nm)	0.0455	0.51	2525.2283
	R2408411-002 50X	Cd (214.439 nm)	0.0003	11.06	27.3189
	R2408411-002 50X	Co (230.786 nm)	0.0004	68.21	12.1289
	R2408411-002 50X	Cr (267.716 nm)	0.0289	0.65	1683.7306
	R2408411-002 50X	Cu (327.395 nm)	0.0001	96.38	-135.6074
	R2408411-002 50X	Fe (234.350 nm)	0.0335	1.94	815.6309
	R2408411-002 50X	K (766.491 nm)	0.8728	10.12	1440.7021

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408411-002 50X	Mg (279.078 nm)	0.0063	8.41	26.4613
	R2408411-002 50X	Mn (257.610 nm)	0.0004	7.76	167.7614
	R2408411-002 50X	Mo (202.032 nm)	0.0004	37.27	11.4581
	R2408411-002 50X	Na (588.995 nm)	3.2579	15.84	49317.9357
	R2408411-002 50X	Ni (230.299 nm)	0.0029	6.49	40.4393
	R2408411-002 50X	Pb (220.353 nm)	-0.0013 u	36.07	-5.1643
	R2408411-002 50X	Sb (217.582 nm)	0.0130	6.26	36.9788
	R2408411-002 50X	Se (196.026 nm)	0.0049 u	> 100.00	5.7016
	R2408411-002 50X	Si (252.851 nm)	0.1021	6.41	701.2860
	R2408411-002 50X	Sn (189.925 nm)	0.0010	34.11	5.5646
	R2408411-002 50X	Sr (216.596 nm)	0.0001 u	> 100.00	7.9600
	R2408411-002 50X	Ti (336.122 nm)	0.0016	5.98	317.2152
	R2408411-002 50X	Tl (190.794 nm)	0.0012	69.88	-0.5103
	R2408411-002 50X	V (292.401 nm)	0.0000 u	> 100.00	16.0353
	R2408411-002 50X	Y (360.074 nm)	1.00	0.09	513872.36
	R2408411-002 50X	Y_R (360.074 nm)	1.00	0.10	514225.71
	R2408411-002 50X	Zn (213.857 nm)	0.0053	1.14	327.0165
9/9/2024 22:11:09	R2408411-005 5X	Ag (328.068 nm)	0.0003	87.15	-95.5373
	R2408411-005 5X	Al (237.312 nm)	2.3882	0.07	6064.5156
	R2408411-005 5X	As (188.980 nm)	0.0015	35.88	0.9775
	R2408411-005 5X	B (249.772 nm)	0.0267	0.20	1158.3025
	R2408411-005 5X	Ba (230.424 nm)	0.0303	0.43	1844.9174
	R2408411-005 5X	Be (313.107 nm)	0.0001	10.57	101.8227
	R2408411-005 5X	Ca (317.933 nm)	31.8621	0.16	988795.8189
	R2408411-005 5X	Cd (214.439 nm)	0.0002	35.04	23.7410
	R2408411-005 5X	Co (230.786 nm)	0.0010	5.62	24.6001
	R2408411-005 5X	Cr (267.716 nm)	0.0104	0.49	606.6553
	R2408411-005 5X	Cu (327.395 nm)	0.2514	0.25	11109.5616
	R2408411-005 5X	Fe (234.350 nm)	9.3067	0.51	212828.3817
	R2408411-005 5X	K (766.491 nm)	8.7550	0.29	11115.7959
	R2408411-005 5X	Mg (279.078 nm)	4.8529	0.17	19597.1252
	R2408411-005 5X	Mn (257.610 nm)	0.1186	0.19	41186.6950
	R2408411-005 5X	Mo (202.032 nm)	0.0023	5.78	31.2811
	R2408411-005 5X	Na (588.995 nm)	29.8265	0.25	535496.5565
	R2408411-005 5X	Ni (230.299 nm)	0.0068	1.76	89.1199
	R2408411-005 5X	Pb (220.353 nm)	0.0122	3.75	62.9448
	R2408411-005 5X	Sb (217.582 nm)	0.0004 u	> 100.00	8.2263
	R2408411-005 5X	Se (196.026 nm)	-0.0017 u	> 100.00	0.5632
	R2408411-005 5X	Si (252.851 nm)	0.7775	0.03	5006.8206
	R2408411-005 5X	Sn (189.925 nm)	0.0079	2.29	23.8044
	R2408411-005 5X	Sr (216.596 nm)	0.0757	0.22	1459.3467
	R2408411-005 5X	Ti (336.122 nm)	0.0292	0.81	4538.2700
	R2408411-005 5X	Tl (190.794 nm)	-0.0004 u	> 100.00	-2.0406
	R2408411-005 5X	V (292.401 nm)	0.0041	3.82	165.9086
	R2408411-005 5X	Y (360.074 nm)	0.97	0.16	502120.46
	R2408411-005 5X	Y_R (360.074 nm)	0.97	0.16	502506.41
	R2408411-005 5X	Zn (213.857 nm)	0.4095	0.15	24310.0769
9/9/2024 22:14:22	Continuing Calibration Verification1	Ag (328.068 nm)	0.5051	0.08	28223.3903
	Continuing Calibration Verification1	Al (237.312 nm)	9.6754	0.06	24613.8276
	Continuing Calibration Verification1	As (188.980 nm)	1.0196	0.10	1633.5747
	Continuing Calibration Verification1	B (249.772 nm)	2.3327	0.20	97603.8645
	Continuing Calibration Verification1	Ba (230.424 nm)	9.9347	0.49	603044.5270
	Continuing Calibration Verification1	Be (313.107 nm)	0.2498	0.12	297321.5024
	Continuing Calibration Verification1	Ca (317.933 nm)	26.4269	0.12	820312.3380
	Continuing Calibration Verification1	Cd (214.439 nm)	0.5217	0.08	31315.6983
	Continuing Calibration Verification1	Co (230.786 nm)	2.5557	0.27	51468.1488
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5215	0.08	30352.1379

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification1	Cu (327.395 nm)	1.2052	0.13	53784.8319
	Continuing Calibration Verification1	Fe (234.350 nm)	5.0483	0.18	115468.2571
	Continuing Calibration Verification1	K (766.491 nm)	24.2152	0.11	30092.3629
	Continuing Calibration Verification1	Mg (279.078 nm)	26.5923	0.16	107381.4738
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7427	0.13	257895.2666
	Continuing Calibration Verification1	Mo (202.032 nm)	2.5945	0.34	27822.6885
	Continuing Calibration Verification1	Na (588.995 nm)	24.1394	0.30	431428.8994
	Continuing Calibration Verification1	Ni (230.299 nm)	2.0524	0.07	26089.1543
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5177	0.02	2611.2200
	Continuing Calibration Verification1	Sb (217.582 nm)	4.9566	0.29	11373.7300
	Continuing Calibration Verification1	Se (196.026 nm)	0.4982	1.07	391.6574
	Continuing Calibration Verification1	Si (252.851 nm)	9.8500	0.77	62838.3024
	Continuing Calibration Verification1	Sn (189.925 nm)	5.1865	0.06	13560.1692
	Continuing Calibration Verification1	Sr (216.596 nm)	2.5966	0.38	49881.4159
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5264	0.46	386437.1763
	Continuing Calibration Verification1	Tl (190.794 nm)	0.9357	0.37	894.9387
	Continuing Calibration Verification1	V (292.401 nm)	2.5650	0.10	93916.5491
	Continuing Calibration Verification1	Y (360.074 nm)	0.96	0.61	497463.23
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.97	0.61	497790.50
	Continuing Calibration Verification1	Zn (213.857 nm)	1.0077	0.22	59807.0775
9/9/2024 22:17:36	Continuing Calibration Blank1	Ag (328.068 nm)	-0.0001 u	24.92	-118.7603
	Continuing Calibration Blank1	Al (237.312 nm)	0.0032	38.88	-6.4261
	Continuing Calibration Blank1	As (188.980 nm)	-0.0014 u	> 100.00	-3.5461
	Continuing Calibration Blank1	B (249.772 nm)	0.0034	31.24	184.0954
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0007	26.07	47.6742
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000	58.08	-8.1731
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0064	16.03	1313.0198
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0001	46.73	17.8641
	Continuing Calibration Blank1	Co (230.786 nm)	0.0000 u	> 100.00	4.8056
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0001 u	> 100.00	7.1202
	Continuing Calibration Blank1	Cu (327.395 nm)	-0.0002 u	27.04	-148.7203
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0150	22.60	394.5058
	Continuing Calibration Blank1	K (766.491 nm)	0.1278	7.30	526.3196
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0004	70.52	2.7219
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0001	21.36	37.2591
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0085	9.08	97.8279
	Continuing Calibration Blank1	Na (588.995 nm)	0.7697	5.22	3785.6162
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0003	53.44	6.6705
	Continuing Calibration Blank1	Pb (220.353 nm)	0.0001 u	> 100.00	2.0214
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0240	20.28	62.3159
	Continuing Calibration Blank1	Se (196.026 nm)	0.0000 u	> 100.00	1.8709
	Continuing Calibration Blank1	Si (252.851 nm)	0.0135	5.55	136.6962
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0044	10.56	14.4161
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0001 u	91.72	8.4830
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0158	24.84	2481.4218
	Continuing Calibration Blank1	Tl (190.794 nm)	0.0054	59.59	3.5289
	Continuing Calibration Blank1	V (292.401 nm)	0.0001 u	> 100.00	19.0564
	Continuing Calibration Blank1	Y (360.074 nm)	1.02	0.22	528387.90
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.03	0.23	528771.65
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0008	5.57	63.8048
9/9/2024 22:20:50	R2408411-006 5X	Ag (328.068 nm)	0.0040	5.04	112.2308
	R2408411-006 5X	Al (237.312 nm)	0.0245	11.17	47.8101
	R2408411-006 5X	As (188.980 nm)	0.0055	16.03	7.4528
	R2408411-006 5X	B (249.772 nm)	1.5576	0.37	65185.5571
	R2408411-006 5X	Ba (230.424 nm)	0.0117	0.76	713.5761
	R2408411-006 5X	Be (313.107 nm)	0.0017	0.25	2065.6939
	R2408411-006 5X	Ca (317.933 nm)	5.9330	0.29	185027.2008

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408411-006 5X	Cd (214.439 nm)	0.0377	0.58	2272.5796
	R2408411-006 5X	Co (230.786 nm)	0.0057	2.50	119.3786
	R2408411-006 5X	Cr (267.716 nm)	0.6566	0.41	38210.3707
	R2408411-006 5X	Cu (327.395 nm)	0.3988	0.41	17703.6589
	R2408411-006 5X	Fe (234.350 nm)	0.1357	2.52	3153.4274
	R2408411-006 5X	K (766.491 nm)	3.0363	0.76	4096.3426
	R2408411-006 5X	Mg (279.078 nm)	1.4677	0.36	5927.7640
	R2408411-006 5X	Mn (257.610 nm)	0.0029	1.07	1022.8574
	R2408411-006 5X	Mo (202.032 nm)	0.0709	0.97	766.3995
	R2408411-006 5X	Na (588.995 nm)	208.3648 o	0.23	3802573.9718
	R2408411-006 5X	Ni (230.299 nm)	0.0217	0.38	278.9012
	R2408411-006 5X	Pb (220.353 nm)	-0.0012 u	23.01	-4.4164
	R2408411-006 5X	Sb (217.582 nm)	0.0263	6.81	67.4468
	R2408411-006 5X	Se (196.026 nm)	0.0259	20.40 *20*	22.1568
	R2408411-006 5X	Si (252.851 nm)	0.4163	0.21	2703.8832
	R2408411-006 5X	Sn (189.925 nm)	0.0035	4.32	12.0851
	R2408411-006 5X	Sr (216.596 nm)	0.0292	0.88	567.1537
	R2408411-006 5X	Ti (336.122 nm)	0.3442	2.02	52713.1044
	R2408411-006 5X	Tl (190.794 nm)	-0.0096 u	19.58	-10.8808
	R2408411-006 5X	V (292.401 nm)	0.0300	0.33	1110.8372
	R2408411-006 5X	Y (360.074 nm)	0.86	0.43	442396.61
	R2408411-006 5X	Y_R (360.074 nm)	0.86	0.42	442772.89
	R2408411-006 5X	Zn (213.857 nm)	0.2112	0.34	12547.1193
9/9/2024 22:24:03	R2408411-007 5X	Ag (328.068 nm)	0.0029	10.97	48.3022
	R2408411-007 5X	Al (237.312 nm)	18.7995	0.57	47838.9126
	R2408411-007 5X	As (188.980 nm)	1.8048	0.24	2892.4800
	R2408411-007 5X	B (249.772 nm)	1.8889	0.41	79042.6000
	R2408411-007 5X	Ba (230.424 nm)	0.0076	0.55	464.8858
	R2408411-007 5X	Be (313.107 nm)	0.0041	0.56	4837.5880
	R2408411-007 5X	Ca (317.933 nm)	10.4554	0.32	325215.7149
	R2408411-007 5X	Cd (214.439 nm)	0.1142	0.29	6864.9376
	R2408411-007 5X	Co (230.786 nm)	0.0053	6.68	112.2377
	R2408411-007 5X	Cr (267.716 nm)	0.4286	0.72	24942.6061
	R2408411-007 5X	Cu (327.395 nm)	0.0792	0.14	3404.8893
	R2408411-007 5X	Fe (234.350 nm)	7.3563	0.38	168236.7781
	R2408411-007 5X	K (766.491 nm)	49.6170	0.57	61271.8622
	R2408411-007 5X	Mg (279.078 nm)	2.5669	0.35	10366.3451
	R2408411-007 5X	Mn (257.610 nm)	0.1328	0.53	46129.5448
	R2408411-007 5X	Mo (202.032 nm)	0.0894	0.55	964.8232
	R2408411-007 5X	Na (588.995 nm)	58.2876 o	0.53	1056308.1192
	R2408411-007 5X	Ni (230.299 nm)	0.0579	0.42	739.0297
	R2408411-007 5X	Pb (220.353 nm)	0.0177	5.80	90.7608
	R2408411-007 5X	Sb (217.582 nm)	0.0660	2.44	158.5788
	R2408411-007 5X	Se (196.026 nm)	0.0252	2.78	21.5526
	R2408411-007 5X	Si (252.851 nm)	1.9713	1.06	12616.4497
	R2408411-007 5X	Sn (189.925 nm)	0.0071	22.30	21.6401
	R2408411-007 5X	Sr (216.596 nm)	0.0471	0.64	909.6731
	R2408411-007 5X	Ti (336.122 nm)	0.1017	1.02	15624.4148
	R2408411-007 5X	Tl (190.794 nm)	0.2422	3.61	230.4605
	R2408411-007 5X	V (292.401 nm)	0.2860	0.38	10484.7114
	R2408411-007 5X	Y (360.074 nm)	0.86	0.18	445874.62
	R2408411-007 5X	Y_R (360.074 nm)	0.87	0.19	446241.72
	R2408411-007 5X	Zn (213.857 nm)	5.9589 o	0.67	353598.0008
9/9/2024 22:27:17	Continuing Calibration Verification1	Ag (328.068 nm)	0.5052	0.07	28231.5897
	Continuing Calibration Verification1	Al (237.312 nm)	9.6658	0.11	24589.3400
	Continuing Calibration Verification1	As (188.980 nm)	1.0216	0.12	1636.7883
	Continuing Calibration Verification1	B (249.772 nm)	2.3322	0.22	97584.8929

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification1	Ba (230.424 nm)	9.9132	0.55	601739.1251
	Continuing Calibration Verification1	Be (313.107 nm)	0.2501	0.04	297618.5307
	Continuing Calibration Verification1	Ca (317.933 nm)	26.4186	0.08	820054.9904
	Continuing Calibration Verification1	Cd (214.439 nm)	0.5223	0.10	31352.8201
	Continuing Calibration Verification1	Co (230.786 nm)	2.5573	0.55	51500.5165
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5195	0.05	30232.0010
	Continuing Calibration Verification1	Cu (327.395 nm)	1.2121	0.25	54091.7919
	Continuing Calibration Verification1	Fe (234.350 nm)	5.0403	0.26	115285.9177
	Continuing Calibration Verification1	K (766.491 nm)	24.3137	0.08	30213.3020
	Continuing Calibration Verification1	Mg (279.078 nm)	26.6029	0.10	107424.0259
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7414	0.13	257435.6182
	Continuing Calibration Verification1	Mo (202.032 nm)	2.5981	0.26	27861.0869
	Continuing Calibration Verification1	Na (588.995 nm)	24.0457	0.40	429714.8736
	Continuing Calibration Verification1	Ni (230.299 nm)	2.0518	0.11	26081.5540
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5158	0.15	2601.3517
	Continuing Calibration Verification1	Sb (217.582 nm)	4.9892	0.34	11448.6715
	Continuing Calibration Verification1	Se (196.026 nm)	0.4975	0.41	391.0961
	Continuing Calibration Verification1	Si (252.851 nm)	9.8534	0.93	62860.2777
	Continuing Calibration Verification1	Sn (189.925 nm)	5.1852	0.04	13556.6818
	Continuing Calibration Verification1	Sr (216.596 nm)	2.5964	0.24	49877.4769
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5385	0.90	388296.6725
	Continuing Calibration Verification1	Tl (190.794 nm)	0.9978	0.34	954.4639
	Continuing Calibration Verification1	V (292.401 nm)	2.5641	0.10	93880.7734
	Continuing Calibration Verification1	Y (360.074 nm)	0.97	0.75	499225.70
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.97	0.75	499601.30
	Continuing Calibration Verification1	Zn (213.857 nm)	1.0107	0.18	59987.0433
9/9/2024 22:30:31	Continuing Calibration Blank1	Ag (328.068 nm)	-0.0001 u	45.41	-116.4931
	Continuing Calibration Blank1	Al (237.312 nm)	0.0016 u	> 100.00	-10.5046
	Continuing Calibration Blank1	As (188.980 nm)	0.0013 u	> 100.00	0.7817
	Continuing Calibration Blank1	B (249.772 nm)	0.0043	30.30	221.6966
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0009	4.08	62.9617
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000	63.73	-6.1802
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0069	3.42	1327.5018
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0001	52.34	17.6078
	Continuing Calibration Blank1	Co (230.786 nm)	0.0001 u	> 100.00	7.1065
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0001	71.02	10.4988
	Continuing Calibration Blank1	Cu (327.395 nm)	-0.0002 u	98.21	-149.2633
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0216	24.67	544.0427
	Continuing Calibration Blank1	K (766.491 nm)	0.0808	53.67	468.5500
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0004 u	> 100.00	2.5480
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0001	7.93	41.7313
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0085	17.96	97.7673
	Continuing Calibration Blank1	Na (588.995 nm)	0.4393	4.84	-2259.6868
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0001 u	> 100.00	4.5447
	Continuing Calibration Blank1	Pb (220.353 nm)	-0.0001 u	> 100.00	0.7575
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0252	28.34	64.9402
	Continuing Calibration Blank1	Se (196.026 nm)	-0.0002 u	> 100.00	1.7053
	Continuing Calibration Blank1	Si (252.851 nm)	0.0156	3.78	149.8838
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0048	18.06	15.5670
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0002	70.24	8.7633
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0255	25.78	3968.1384
	Continuing Calibration Blank1	Tl (190.794 nm)	0.0073	37.63	5.3272
	Continuing Calibration Blank1	V (292.401 nm)	0.0002	77.19	21.5171
	Continuing Calibration Blank1	Y (360.074 nm)	1.03	0.09	530040.07
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.03	0.09	530423.61
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0004	14.68	40.2431
9/9/2024 22:33:45	PBW-444308	Ag (328.068 nm)	-0.0001 u	> 100.00	-117.9463

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	PBW-444308	Al (237.312 nm)	0.0014	76.99	-10.9927
	PBW-444308	As (188.980 nm)	0.0001 u	> 100.00	-1.1318
	PBW-444308	B (249.772 nm)	0.0027	4.61	153.5742
	PBW-444308	Ba (230.424 nm)	0.0003	43.06	26.2803
	PBW-444308	Be (313.107 nm)	0.0000 u	> 100.00	-13.2120
	PBW-444308	Ca (317.933 nm)	0.0144	2.83	1559.7528
	PBW-444308	Cd (214.439 nm)	0.0001	68.68	14.4125
	PBW-444308	Co (230.786 nm)	0.0000 u	> 100.00	4.4301
	PBW-444308	Cr (267.716 nm)	0.0004	14.68	25.2772
	PBW-444308	Cu (327.395 nm)	0.0001	92.84	-133.7827
	PBW-444308	Fe (234.350 nm)	0.0174	22.37	447.6481
	PBW-444308	K (766.491 nm)	0.0748	54.06	461.2223
	PBW-444308	Mg (279.078 nm)	0.0007	94.97	4.1529
	PBW-444308	Mn (257.610 nm)	0.0001	5.91	59.0864
	PBW-444308	Mo (202.032 nm)	0.0022	22.27	30.5728
	PBW-444308	Na (588.995 nm)	0.3731	4.99	-3471.8749
	PBW-444308	Ni (230.299 nm)	0.0005	47.84	9.0715
	PBW-444308	Pb (220.353 nm)	0.0012	16.26	7.6017
	PBW-444308	Sb (217.582 nm)	0.0081	12.31	25.8697
	PBW-444308	Se (196.026 nm)	0.0004 u	> 100.00	2.1714
	PBW-444308	Si (252.851 nm)	0.0225	8.90	193.8906
	PBW-444308	Sn (189.925 nm)	0.0031	17.24	11.0054
	PBW-444308	Sr (216.596 nm)	0.0000 u	> 100.00	5.2310
	PBW-444308	Ti (336.122 nm)	0.0118	31.76	1880.0190
	PBW-444308	Tl (190.794 nm)	0.0043	10.30	2.5182
	PBW-444308	V (292.401 nm)	0.0002	28.14	20.1081
	PBW-444308	Y (360.074 nm)	1.02	0.15	528563.54
	PBW-444308	Y_R (360.074 nm)	1.03	0.15	528915.28
	PBW-444308	Zn (213.857 nm)	0.0772	0.41	4594.5272
9/9/2024 22:36:59	LCSW-444308	Ag (328.068 nm)	0.0496	0.17	2669.8253
	LCSW-444308	Al (237.312 nm)	1.9285	0.18	4894.5646
	LCSW-444308	As (188.980 nm)	0.0399	1.47	62.5951
	LCSW-444308	B (249.772 nm)	0.9265	0.25	38793.8458
	LCSW-444308	Ba (230.424 nm)	1.9714	0.29	119671.0578
	LCSW-444308	Be (313.107 nm)	0.0496	0.10	59032.5313
	LCSW-444308	Ca (317.933 nm)	2.0734	0.22	65385.1910
	LCSW-444308	Cd (214.439 nm)	0.0526	0.59	3164.4817
	LCSW-444308	Co (230.786 nm)	0.5091	0.24	10256.9123
	LCSW-444308	Cr (267.716 nm)	0.2035	0.14	11847.9212
	LCSW-444308	Cu (327.395 nm)	0.2467	0.09	10898.8980
	LCSW-444308	Fe (234.350 nm)	1.0085	0.43	23108.4107
	LCSW-444308	K (766.491 nm)	18.7087	0.16	23333.3774
	LCSW-444308	Mg (279.078 nm)	2.0307	0.22	8201.2924
	LCSW-444308	Mn (257.610 nm)	0.4838	0.19	168008.3536
	LCSW-444308	Mo (202.032 nm)	0.4882	0.91	5240.5856
	LCSW-444308	Na (588.995 nm)	18.7422	0.19	332665.4444
	LCSW-444308	Ni (230.299 nm)	0.5006	0.24	6366.0240
	LCSW-444308	Pb (220.353 nm)	0.5258	0.25	2651.9181
	LCSW-444308	Sb (217.582 nm)	0.5001	1.12	1154.0941
	LCSW-444308	Se (196.026 nm)	1.0214	0.55	801.0339
	LCSW-444308	Si (252.851 nm)	0.3315	0.61	2163.6004
	LCSW-444308	Sn (189.925 nm)	5.0508	0.12	13205.4037
	LCSW-444308	Sr (216.596 nm)	2.0390	0.23	39169.8220
	LCSW-444308	Ti (336.122 nm)	0.4941	0.40	75628.1487
	LCSW-444308	Tl (190.794 nm)	1.4517	1.04	1389.3918
	LCSW-444308	V (292.401 nm)	0.4959	0.17	18167.7609
	LCSW-444308	Y (360.074 nm)	1.00	0.28	515806.39

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	LCSW-444308	Y_R (360.074 nm)	1.00	0.28	516180.78
	LCSW-444308	Zn (213.857 nm)	0.5724	0.04	33979.2714
9/9/2024 22:40:12	DLCSW-444308	Ag (328.068 nm)	0.0485	0.13	2611.2518
	DLCSW-444308	Al (237.312 nm)	1.8877	0.16	4790.5573
	DLCSW-444308	As (188.980 nm)	0.0389	3.23	60.9646
	DLCSW-444308	B (249.772 nm)	0.9089	0.19	38054.9092
	DLCSW-444308	Ba (230.424 nm)	1.9249	0.22	116848.3272
	DLCSW-444308	Be (313.107 nm)	0.0485	0.04	57690.3565
	DLCSW-444308	Ca (317.933 nm)	2.0237	0.16	63844.6886
	DLCSW-444308	Cd (214.439 nm)	0.0513	0.24	3085.6815
	DLCSW-444308	Co (230.786 nm)	0.4967	0.22	10006.6627
	DLCSW-444308	Cr (267.716 nm)	0.1990	0.28	11586.0795
	DLCSW-444308	Cu (327.395 nm)	0.2412	0.11	10652.0268
	DLCSW-444308	Fe (234.350 nm)	0.9888	0.30	22657.6088
	DLCSW-444308	K (766.491 nm)	18.2967	0.32	22827.7393
	DLCSW-444308	Mg (279.078 nm)	1.9832	0.31	8009.4699
	DLCSW-444308	Mn (257.610 nm)	0.4728	0.18	164174.2155
	DLCSW-444308	Mo (202.032 nm)	0.4867	0.82	5224.7291
	DLCSW-444308	Na (588.995 nm)	18.3030	0.23	324628.7351
	DLCSW-444308	Ni (230.299 nm)	0.4890	0.25	6218.2920
	DLCSW-444308	Pb (220.353 nm)	0.5137	0.26	2590.8307
	DLCSW-444308	Sb (217.582 nm)	0.4957	0.51	1144.0090
	DLCSW-444308	Se (196.026 nm)	1.0138	0.18	795.0945
	DLCSW-444308	Si (252.851 nm)	0.3216	0.58	2100.4269
	DLCSW-444308	Sn (189.925 nm)	5.0035	0.16	13081.7888
	DLCSW-444308	Sr (216.596 nm)	2.0158	0.24	38724.3580
	DLCSW-444308	Ti (336.122 nm)	0.4917	0.26	75267.1503
	DLCSW-444308	Tl (190.794 nm)	1.4975	0.82	1433.2834
	DLCSW-444308	V (292.401 nm)	0.4846	0.16	17754.9159
	DLCSW-444308	Y (360.074 nm)	1.00	0.20	516936.65
	DLCSW-444308	Y_R (360.074 nm)	1.00	0.20	517320.98
	DLCSW-444308	Zn (213.857 nm)	0.5357	0.12	31802.3069
9/9/2024 22:43:26	R2408410-001	Ag (328.068 nm)	-0.0015 u	6.00	-198.1461
	R2408410-001	Al (237.312 nm)	6969.3573 o	0.09	17740206.1227
	R2408410-001	As (188.980 nm)	0.0366	5.26	57.2577
	R2408410-001	B (249.772 nm)	0.0347	2.22	1494.5628
	R2408410-001	Ba (230.424 nm)	0.0374	0.66	2274.2775
	R2408410-001	Be (313.107 nm)	0.0017	0.35	1992.5619
	R2408410-001	Ca (317.933 nm)	39.0455	0.29	1211472.1578
	R2408410-001	Cd (214.439 nm)	-0.0001 u	27.13	1.5997
	R2408410-001	Co (230.786 nm)	0.0012	27.29	29.2925
	R2408410-001	Cr (267.716 nm)	0.0841	0.43	4900.0756
	R2408410-001	Cu (327.395 nm)	0.0056	7.59	112.6396
	R2408410-001	Fe (234.350 nm)	2.9261	0.32	66950.5246
	R2408410-001	K (766.491 nm)	2.9053	1.43	3935.5595
	R2408410-001	Mg (279.078 nm)	45.4086	0.16	183362.2019
	R2408410-001	Mn (257.610 nm)	0.1523	0.16	52907.4790
	R2408410-001	Mo (202.032 nm)	0.0159	16.33	176.9831
	R2408410-001	Na (588.995 nm)	76.4018 o	0.38	1387779.2110
	R2408410-001	Ni (230.299 nm)	0.1057	0.49	1346.6896
	R2408410-001	Pb (220.353 nm)	-0.0785 u	6.10	-394.2646
	R2408410-001	Sb (217.582 nm)	0.1055	4.73	249.0969
	R2408410-001	Se (196.026 nm)	-0.0001 u	> 100.00	1.8132
	R2408410-001	Si (252.851 nm)	15.5183	0.11	98970.1955
	R2408410-001	Sn (189.925 nm)	0.0154	30.74	43.2890
	R2408410-001	Sr (216.596 nm)	0.1746	0.61	3359.3165
	R2408410-001	Ti (336.122 nm)	0.0361	7.24	5585.1807

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408410-001	Tl (190.794 nm)	0.0993	5.88	93.5424
	R2408410-001	V (292.401 nm)	0.0178	0.78	666.9324
	R2408410-001	Y (360.074 nm)	0.69	0.40	355457.78
	R2408410-001	Y_R (360.074 nm)	0.69	0.40	355895.58
	R2408410-001	Zn (213.857 nm)	7.8599 o	0.25	466399.6102
9/9/2024 22:46:41	R2408410-002	Ag (328.068 nm)	-0.0003 u	82.54	-127.6629
	R2408410-002	Al (237.312 nm)	0.4434	3.62	1114.1788
	R2408410-002	As (188.980 nm)	0.0096	20.82	14.0810
	R2408410-002	B (249.772 nm)	0.3512	0.14	14731.5425
	R2408410-002	Ba (230.424 nm)	0.0025	4.00	156.0428
	R2408410-002	Be (313.107 nm)	0.0000 u	> 100.00	-18.0632
	R2408410-002	Ca (317.933 nm)	19.8418	0.27	616182.8618
	R2408410-002	Cd (214.439 nm)	0.0001	78.06	15.1409
	R2408410-002	Co (230.786 nm)	0.0346	0.33	701.5680
	R2408410-002	Cr (267.716 nm)	0.0027	3.40	160.8455
	R2408410-002	Cu (327.395 nm)	0.0506	0.56	2125.1683
	R2408410-002	Fe (234.350 nm)	0.9213	0.27	21115.0486
	R2408410-002	K (766.491 nm)	27.0555	1.64	33578.7016
	R2408410-002	Mg (279.078 nm)	5.5325	0.27	22341.4841
	R2408410-002	Mn (257.610 nm)	0.0035	0.38	1227.8346
	R2408410-002	Mo (202.032 nm)	0.0324	3.21	354.1332
	R2408410-002	Na (588.995 nm)	1309.6285 o	1.51	23954626.7461
	R2408410-002	Ni (230.299 nm)	0.0349	1.25	446.0111
	R2408410-002	Pb (220.353 nm)	0.0002 u	> 100.00	2.2800
	R2408410-002	Sb (217.582 nm)	0.0058	5.55	20.4027
	R2408410-002	Se (196.026 nm)	-0.0009 u	> 100.00	1.1563
	R2408410-002	Si (252.851 nm)	2.7237	0.14	17412.3940
	R2408410-002	Sn (189.925 nm)	0.0034	22.34	12.0391
	R2408410-002	Sr (216.596 nm)	0.0285	0.71	553.8214
	R2408410-002	Ti (336.122 nm)	0.0047	25.68	784.6550
	R2408410-002	Tl (190.794 nm)	0.0498	6.09	46.0511
	R2408410-002	V (292.401 nm)	0.0033	3.74	134.3371
	R2408410-002	Y (360.074 nm)	0.84	0.46	434632.63
	R2408410-002	Y_R (360.074 nm)	0.84	0.46	435104.70
	R2408410-002	Zn (213.857 nm)	0.0854	0.03	5079.5663
9/9/2024 22:49:54	R2408410-003	Ag (328.068 nm)	-0.0003 u	25.93	-127.1199
	R2408410-003	Al (237.312 nm)	0.0710	7.95	166.2540
	R2408410-003	As (188.980 nm)	0.0003 u	> 100.00	-0.9105
	R2408410-003	B (249.772 nm)	0.0395	0.25	1693.7504
	R2408410-003	Ba (230.424 nm)	0.0706	0.55	4289.9622
	R2408410-003	Be (313.107 nm)	0.0000 u	> 100.00	-15.1544
	R2408410-003	Ca (317.933 nm)	213.1458 o	0.71	6608344.4449
	R2408410-003	Cd (214.439 nm)	0.0001	97.35	13.6357
	R2408410-003	Co (230.786 nm)	0.0009	34.56	22.6484
	R2408410-003	Cr (267.716 nm)	0.0048	1.12	281.6294
	R2408410-003	Cu (327.395 nm)	0.0035	4.13	16.1012
	R2408410-003	Fe (234.350 nm)	0.0580	2.48	1377.1278
	R2408410-003	K (766.491 nm)	12.4636	2.32	15667.8460
	R2408410-003	Mg (279.078 nm)	0.0145	6.47	59.6938
	R2408410-003	Mn (257.610 nm)	0.0005	2.11	186.0194
	R2408410-003	Mo (202.032 nm)	0.0047	3.19	56.7951
	R2408410-003	Na (588.995 nm)	1051.2712 o	0.16	19226940.0074
	R2408410-003	Ni (230.299 nm)	0.0029	4.75	39.7589
	R2408410-003	Pb (220.353 nm)	0.0004 u	> 100.00	3.6798
	R2408410-003	Sb (217.582 nm)	0.0032	31.70	14.4995
	R2408410-003	Se (196.026 nm)	-0.0019 u	95.62	0.3637
	R2408410-003	Si (252.851 nm)	0.0441	5.89	331.6133

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408410-003	Sn (189.925 nm)	0.0025	27.47	9.4693
	R2408410-003	Sr (216.596 nm)	0.7133	0.47	13706.6318
	R2408410-003	Ti (336.122 nm)	0.0018	45.05	342.0766
	R2408410-003	Tl (190.794 nm)	0.0325	13.29	29.4486
	R2408410-003	V (292.401 nm)	0.0002	12.49	22.3027
	R2408410-003	Y (360.074 nm)	0.84	0.03	433165.61
	R2408410-003	Y_R (360.074 nm)	0.84	0.03	433610.72
	R2408410-003	Zn (213.857 nm)	0.0545	0.73	3246.6146
9/9/2024 22:53:08	R2408410-004	Ag (328.068 nm)	0.0007	35.69	-75.6116
	R2408410-004	Al (237.312 nm)	0.2982	5.72	744.5966
	R2408410-004	As (188.980 nm)	0.0221	10.28	34.0020
	R2408410-004	B (249.772 nm)	0.2181	0.25	9162.5878
	R2408410-004	Ba (230.424 nm)	0.0326	0.31	1984.9240
	R2408410-004	Be (313.107 nm)	0.0003	1.53	380.8468
	R2408410-004	Ca (317.933 nm)	36.2729	0.22	1125522.9781
	R2408410-004	Cd (214.439 nm)	0.0050	1.33	311.9258
	R2408410-004	Co (230.786 nm)	0.0009	5.64	22.9666
	R2408410-004	Cr (267.716 nm)	0.0932	0.03	5425.7277
	R2408410-004	Cu (327.395 nm)	0.0434	0.92	1802.1073
	R2408410-004	Fe (234.350 nm)	0.6350	0.36	14567.7111
	R2408410-004	K (766.491 nm)	556.9242 o	0.08	683966.9784
	R2408410-004	Mg (279.078 nm)	9.4517	0.23	38167.4916
	R2408410-004	Mn (257.610 nm)	0.0162	0.43	5645.5932
	R2408410-004	Mo (202.032 nm)	0.0220	2.89	242.9370
	R2408410-004	Na (588.995 nm)	1022.4296 o	0.34	18699166.0931
	R2408410-004	Ni (230.299 nm)	0.0124	0.76	160.5449
	R2408410-004	Pb (220.353 nm)	0.0023	21.52	12.8095
	R2408410-004	Sb (217.582 nm)	0.0101	17.16	30.3738
	R2408410-004	Se (196.026 nm)	0.0075	40.19	7.7452
	R2408410-004	Si (252.851 nm)	0.7893	0.84	5081.9235
	R2408410-004	Sn (189.925 nm)	0.0030	11.88	10.8312
	R2408410-004	Sr (216.596 nm)	0.1845	0.19	3549.0724
	R2408410-004	Ti (336.122 nm)	0.0568	2.89	8761.5398
	R2408410-004	Tl (190.794 nm)	0.0268	15.60	24.0591
	R2408410-004	V (292.401 nm)	0.0114	1.33	430.8716
	R2408410-004	Y (360.074 nm)	0.82	0.20	422166.01
	R2408410-004	Y_R (360.074 nm)	0.82	0.19	422614.08
	R2408410-004	Zn (213.857 nm)	0.5772	0.20	34260.9667
9/9/2024 22:56:21	R2408410-005	Ag (328.068 nm)	0.0009	4.44	-63.9284
	R2408410-005	Al (237.312 nm)	0.2215	1.16	549.2364
	R2408410-005	As (188.980 nm)	0.0022	72.23	2.1315
	R2408410-005	B (249.772 nm)	0.1174	0.19	4951.9673
	R2408410-005	Ba (230.424 nm)	0.0459	0.31	2791.6113
	R2408410-005	Be (313.107 nm)	0.0000 u	> 100.00	-11.3759
	R2408410-005	Ca (317.933 nm)	344.6403 o	0.05	10684496.5713
	R2408410-005	Cd (214.439 nm)	0.0022	1.77	139.1762
	R2408410-005	Co (230.786 nm)	0.0119	1.42	245.5131
	R2408410-005	Cr (267.716 nm)	0.0044	0.91	262.2981
	R2408410-005	Cu (327.395 nm)	5.7970 o	0.29	259231.9248
	R2408410-005	Fe (234.350 nm)	0.3588	0.10	8253.8167
	R2408410-005	K (766.491 nm)	54.4482	0.21	67201.9940
	R2408410-005	Mg (279.078 nm)	18.5432	0.03	74879.1248
	R2408410-005	Mn (257.610 nm)	0.5886	0.03	204381.2704
	R2408410-005	Mo (202.032 nm)	0.0084	6.39	97.1751
	R2408410-005	Na (588.995 nm)	640.5911 o	0.25	11711893.5613
	R2408410-005	Ni (230.299 nm)	0.0935	0.94	1191.9617
	R2408410-005	Pb (220.353 nm)	0.0126	5.92	64.8966

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408410-005	Sb (217.582 nm)	0.0146	15.28	40.7506
	R2408410-005	Se (196.026 nm)	-0.0027 u	> 100.00	-0.2249
	R2408410-005	Si (252.851 nm)	8.7106	0.08	55575.2296
	R2408410-005	Sn (189.925 nm)	0.0066	7.36	20.3904
	R2408410-005	Sr (216.596 nm)	2.8700	0.13	55131.6384
	R2408410-005	Ti (336.122 nm)	0.0166	7.32	2604.1531
	R2408410-005	Tl (190.794 nm)	0.0420	11.75	38.5939
	R2408410-005	V (292.401 nm)	0.0016	4.79	72.1417
	R2408410-005	Y (360.074 nm)	0.86	0.45	441362.30
	R2408410-005	Y_R (360.074 nm)	0.86	0.45	441766.67
	R2408410-005	Zn (213.857 nm)	106.4261 o	0.54	6315042.3069
9/9/2024 22:59:34	R2408410-006	Ag (328.068 nm)	0.0001 u	> 100.00	-106.8380
	R2408410-006	Al (237.312 nm)	20.9270	0.13	53254.2500
	R2408410-006	As (188.980 nm)	0.0021 u	> 100.00	2.0849
	R2408410-006	B (249.772 nm)	0.2244	0.15	9425.0722
	R2408410-006	Ba (230.424 nm)	0.0766	0.23	4653.7911
	R2408410-006	Be (313.107 nm)	0.0000	18.04	36.3721
	R2408410-006	Ca (317.933 nm)	356.7852 o	0.28	11060972.2014
	R2408410-006	Cd (214.439 nm)	0.0006	9.49	43.6871
	R2408410-006	Co (230.786 nm)	0.0032	6.58	70.0257
	R2408410-006	Cr (267.716 nm)	0.0111	0.51	650.9465
	R2408410-006	Cu (327.395 nm)	0.0543	0.52	2291.3275
	R2408410-006	Fe (234.350 nm)	4.2114	0.40	96335.3816
	R2408410-006	K (766.491 nm)	79.1636 o	0.20	97538.9274
	R2408410-006	Mg (279.078 nm)	47.3090	0.31	191036.0193
	R2408410-006	Mn (257.610 nm)	0.1347	0.18	46766.4612
	R2408410-006	Mo (202.032 nm)	0.0654	0.91	708.2278
	R2408410-006	Na (588.995 nm)	992.1351 o	0.39	18144805.4563
	R2408410-006	Ni (230.299 nm)	0.0467	1.04	597.1926
	R2408410-006	Pb (220.353 nm)	0.0423	1.74	214.7964
	R2408410-006	Sb (217.582 nm)	0.0054	14.67	19.5325
	R2408410-006	Se (196.026 nm)	0.0006	72.15	2.3605
	R2408410-006	Si (252.851 nm)	7.8053	0.14	49804.4212
	R2408410-006	Sn (189.925 nm)	0.0076	2.32	22.9623
	R2408410-006	Sr (216.596 nm)	0.8263	0.21	15876.6352
	R2408410-006	Ti (336.122 nm)	0.0589	1.30	9078.4906
	R2408410-006	Tl (190.794 nm)	0.0199	12.53	17.4504
	R2408410-006	V (292.401 nm)	0.0074	1.24	286.5689
	R2408410-006	Y (360.074 nm)	0.83	0.05	429124.43
	R2408410-006	Y_R (360.074 nm)	0.83	0.05	429539.84
	R2408410-006	Zn (213.857 nm)	0.4706	0.16	27937.0478
9/9/2024 23:02:48	R2408410-007	Ag (328.068 nm)	0.0010	25.59	-58.0140
	R2408410-007	Al (237.312 nm)	0.1075	2.51	259.0521
	R2408410-007	As (188.980 nm)	0.0011	> 100.00	0.3483
	R2408410-007	B (249.772 nm)	0.1642	0.10	6911.0934
	R2408410-007	Ba (230.424 nm)	0.0196	0.12	1193.9429
	R2408410-007	Be (313.107 nm)	0.0000 u	> 100.00	-19.7767
	R2408410-007	Ca (317.933 nm)	236.6785 o	0.20	7337825.6941
	R2408410-007	Cd (214.439 nm)	0.0044	1.54	274.4625
	R2408410-007	Co (230.786 nm)	0.0261	1.40	531.5259
	R2408410-007	Cr (267.716 nm)	0.0032	6.68	189.1519
	R2408410-007	Cu (327.395 nm)	8.3605 o	0.30	373930.0641
	R2408410-007	Fe (234.350 nm)	0.2848	1.08	6562.2741
	R2408410-007	K (766.491 nm)	47.3049	0.12	58433.9142
	R2408410-007	Mg (279.078 nm)	18.2666	0.11	73761.9058
	R2408410-007	Mn (257.610 nm)	0.7648	0.10	265567.5845
	R2408410-007	Mo (202.032 nm)	0.0043	17.92	52.9014

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408410-007	Na (588.995 nm)	658.9566 o	0.08	12047965.2326
	R2408410-007	Ni (230.299 nm)	0.1592	0.36	2026.4977
	R2408410-007	Pb (220.353 nm)	0.0040	51.52	21.3849
	R2408410-007	Sb (217.582 nm)	0.0179	7.75	48.1703
	R2408410-007	Se (196.026 nm)	-0.0059 u	78.28	-2.7905
	R2408410-007	Si (252.851 nm)	3.9634	0.09	25314.5756
	R2408410-007	Sn (189.925 nm)	0.0019	18.57	7.9329
	R2408410-007	Sr (216.596 nm)	1.8546	0.18	35628.4849
	R2408410-007	Ti (336.122 nm)	0.0041	12.00	699.7904
	R2408410-007	Tl (190.794 nm)	0.0397	15.15	36.3871
	R2408410-007	V (292.401 nm)	0.0003	21.69	25.4149
	R2408410-007	Y (360.074 nm)	0.86	0.22	445600.80
	R2408410-007	Y_R (360.074 nm)	0.86	0.23	446005.80
	R2408410-007	Zn (213.857 nm)	152.2193 o	0.59	9032282.1047
9/9/2024 23:06:02	Continuing Calibration Verification1	Ag (328.068 nm)	0.5024	0.14	28073.9632
	Continuing Calibration Verification1	Al (237.312 nm)	9.5721	0.04	24351.0451
	Continuing Calibration Verification1	As (188.980 nm)	1.0110	0.25	1619.7977
	Continuing Calibration Verification1	B (249.772 nm)	2.3089	0.25	96607.2605
	Continuing Calibration Verification1	Ba (230.424 nm)	9.8667	0.78	598915.3692
	Continuing Calibration Verification1	Be (313.107 nm)	0.2485	0.12	295797.0015
	Continuing Calibration Verification1	Ca (317.933 nm)	26.3821	0.13	818922.0814
	Continuing Calibration Verification1	Cd (214.439 nm)	0.5193	0.22	31172.7081
	Continuing Calibration Verification1	Co (230.786 nm)	2.5383	0.17	51118.8097
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5192	0.18	30217.7133
	Continuing Calibration Verification1	Cu (327.395 nm)	1.1983	0.30	53473.3879
	Continuing Calibration Verification1	Fe (234.350 nm)	4.9737	0.23	113762.6436
	Continuing Calibration Verification1	K (766.491 nm)	23.6465	0.15	29394.3927
	Continuing Calibration Verification1	Mg (279.078 nm)	26.4774	0.19	106917.3795
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7379	0.17	256217.7359
	Continuing Calibration Verification1	Mo (202.032 nm)	2.5771	0.38	27635.2589
	Continuing Calibration Verification1	Na (588.995 nm)	23.6834	0.70	423084.9228
	Continuing Calibration Verification1	Ni (230.299 nm)	2.0387	0.12	25914.6656
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5131	0.34	2587.9663
	Continuing Calibration Verification1	Sb (217.582 nm)	4.9411	0.51	11338.2394
	Continuing Calibration Verification1	Se (196.026 nm)	0.4988	0.93	392.1521
	Continuing Calibration Verification1	Si (252.851 nm)	9.6998	0.60	61881.0447
	Continuing Calibration Verification1	Sn (189.925 nm)	5.1592	0.04	13488.6148
	Continuing Calibration Verification1	Sr (216.596 nm)	2.5810	0.25	49580.4109
	Continuing Calibration Verification1	Ti (336.122 nm)	2.5249	0.34	386210.6106
	Continuing Calibration Verification1	Tl (190.794 nm)	0.8018 Q	4.00	766.6932 Q
	Continuing Calibration Verification1	V (292.401 nm)	2.5495	0.15	93348.2937
	Continuing Calibration Verification1	Y (360.074 nm)	0.96	0.41	493309.39
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.96	0.41	493635.70
	Continuing Calibration Verification1	Zn (213.857 nm)	1.0438	1.03	61950.4409
9/9/2024 23:09:15	Continuing Calibration Blank1	Ag (328.068 nm)	0.0000 u	> 100.00	-112.9143
	Continuing Calibration Blank1	Al (237.312 nm)	0.0030	15.38	-6.8561
	Continuing Calibration Blank1	As (188.980 nm)	0.0006	> 100.00	-0.3834
	Continuing Calibration Blank1	B (249.772 nm)	0.0036	34.81	191.2240
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0009	5.44	61.9452
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000 u	> 100.00	-10.9241
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0079	1.17	1358.8109
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0001	42.20	15.2578
	Continuing Calibration Blank1	Co (230.786 nm)	0.0000 u	> 100.00	5.1733
	Continuing Calibration Blank1	Cr (267.716 nm)	-0.0001 u	40.18	0.8973
	Continuing Calibration Blank1	Cu (327.395 nm)	0.0000 u	> 100.00	-141.2462
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0104	21.90	289.3170
	Continuing Calibration Blank1	K (766.491 nm)	0.1135	9.66	508.7226

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0005 u	> 100.00	3.0878
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0001	3.86	50.0324
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0091	13.90	104.4232
	Continuing Calibration Blank1	Na (588.995 nm)	0.6452	3.42	1507.8022
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0001 u	> 100.00	4.6523
	Continuing Calibration Blank1	Pb (220.353 nm)	0.0000 u	> 100.00	1.3730
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0149	21.82	41.3660
	Continuing Calibration Blank1	Se (196.026 nm)	0.0002 u	> 100.00	2.0111
	Continuing Calibration Blank1	Si (252.851 nm)	0.0097	6.59	112.1374
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0031	12.52	11.0420
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0002	66.29	9.5531
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0130	25.34	2063.3254
	Continuing Calibration Blank1	Tl (190.794 nm)	0.0270 Z	5.02	24.2230 Z
	Continuing Calibration Blank1	V (292.401 nm)	0.0003	33.15	23.4781
	Continuing Calibration Blank1	Y (360.074 nm)	1.02	0.10	523909.94
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.02	0.09	524278.55
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0019	3.40	128.9067
9/9/2024 23:12:29	R2408410-008	Ag (328.068 nm)	-0.0001 u	> 100.00	-118.3304
	R2408410-008	Al (237.312 nm)	0.0119	8.92	15.8494
	R2408410-008	As (188.980 nm)	-0.0022 u	> 100.00	-4.8567
	R2408410-008	B (249.772 nm)	0.0100	1.91	459.3167
	R2408410-008	Ba (230.424 nm)	0.0451	0.19	2745.0542
	R2408410-008	Be (313.107 nm)	0.0000 u	> 100.00	-20.0205
	R2408410-008	Ca (317.933 nm)	763.8011 o	0.11	23677911.4429
	R2408410-008	Cd (214.439 nm)	0.0000 u	> 100.00	11.7010
	R2408410-008	Co (230.786 nm)	0.0000 u	> 100.00	5.6568
	R2408410-008	Cr (267.716 nm)	0.0021	5.31	124.4665
	R2408410-008	Cu (327.395 nm)	0.0005	21.36	-118.2005
	R2408410-008	Fe (234.350 nm)	0.0340	5.00	827.1289
	R2408410-008	K (766.491 nm)	1.6956	1.48	2450.6198
	R2408410-008	Mg (279.078 nm)	0.3573	0.43	1443.7273
	R2408410-008	Mn (257.610 nm)	0.0004	4.98	165.1824
	R2408410-008	Mo (202.032 nm)	0.0035	15.86	43.7950
	R2408410-008	Na (588.995 nm)	16.0064	0.14	282602.0625
	R2408410-008	Ni (230.299 nm)	0.0036	9.76	49.0134
	R2408410-008	Pb (220.353 nm)	0.0013	> 100.00	7.8954
	R2408410-008	Sb (217.582 nm)	0.0046	23.77	17.7756
	R2408410-008	Se (196.026 nm)	-0.0022 u	31.06	0.1429
	R2408410-008	Si (252.851 nm)	1.2081	0.13	7751.4027
	R2408410-008	Sn (189.925 nm)	0.0022	31.98	8.6642
	R2408410-008	Sr (216.596 nm)	0.5124	0.17	9847.1899
	R2408410-008	Ti (336.122 nm)	0.0040	40.54	681.1122
	R2408410-008	Tl (190.794 nm)	0.0222	16.24	19.6677
	R2408410-008	V (292.401 nm)	0.0011	12.41	56.1559
	R2408410-008	Y (360.074 nm)	0.88	0.31	455899.96
	R2408410-008	Y_R (360.074 nm)	0.88	0.31	456304.51
	R2408410-008	Zn (213.857 nm)	0.0471	0.44	2809.2131
9/9/2024 23:15:43	R2408410-010	Ag (328.068 nm)	-0.0003 u	> 100.00	-126.6904
	R2408410-010	Al (237.312 nm)	37.0657 o	0.42	94334.7056
	R2408410-010	As (188.980 nm)	0.0065	22.21	9.1176
	R2408410-010	B (249.772 nm)	0.0155	0.73	690.8501
	R2408410-010	Ba (230.424 nm)	0.0134	0.15	817.5496
	R2408410-010	Be (313.107 nm)	0.0003	4.63	319.8605
	R2408410-010	Ca (317.933 nm)	0.7017	0.50	22865.9479
	R2408410-010	Cd (214.439 nm)	0.0001	44.71	14.1943
	R2408410-010	Co (230.786 nm)	0.0025	7.70	56.1188
	R2408410-010	Cr (267.716 nm)	0.0018	5.67	109.6048

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408410-010	Cu (327.395 nm)	0.0166	2.47	602.3588
	R2408410-010	Fe (234.350 nm)	0.0325	2.81	794.0845
	R2408410-010	K (766.491 nm)	55.2487 o	1.98	68184.5205
	R2408410-010	Mg (279.078 nm)	0.0036	6.02	15.7273
	R2408410-010	Mn (257.610 nm)	0.0031	0.17	1073.8822
	R2408410-010	Mo (202.032 nm)	0.0027	7.82	36.1297
	R2408410-010	Na (588.995 nm)	1682.1893 o	0.95	30772125.1969
	R2408410-010	Ni (230.299 nm)	0.0199	0.35	256.5404
	R2408410-010	Pb (220.353 nm)	0.0021	51.83	12.1393
	R2408410-010	Sb (217.582 nm)	0.0040	30.90	16.2819
	R2408410-010	Se (196.026 nm)	0.0004 u	> 100.00	2.2050
	R2408410-010	Si (252.851 nm)	5.0488	0.36	32233.5723
	R2408410-010	Sn (189.925 nm)	0.0074	7.42	22.3336
	R2408410-010	Sr (216.596 nm)	0.0391	0.78	756.0718
	R2408410-010	Ti (336.122 nm)	0.0031	33.69	538.2174
	R2408410-010	Tl (190.794 nm)	0.0123	7.51	10.1688
	R2408410-010	V (292.401 nm)	0.0050	3.26	196.0677
	R2408410-010	Y (360.074 nm)	0.71	0.23	366121.86
	R2408410-010	Y_R (360.074 nm)	0.71	0.23	366506.71
	R2408410-010	Zn (213.857 nm)	0.9114	0.44	54094.1673
9/9/2024 23:18:57	R2408410-011	Ag (328.068 nm)	-0.0003 u	28.03	-129.6628
	R2408410-011	Al (237.312 nm)	41.4581 o	0.53	105515.5787
	R2408410-011	As (188.980 nm)	0.0052	81.66	6.9801
	R2408410-011	B (249.772 nm)	0.0173	0.73	767.2081
	R2408410-011	Ba (230.424 nm)	0.0149	0.67	908.1349
	R2408410-011	Be (313.107 nm)	0.0003	3.75	332.8970
	R2408410-011	Ca (317.933 nm)	0.5900	0.37	19403.6498
	R2408410-011	Cd (214.439 nm)	0.0001 u	> 100.00	13.0179
	R2408410-011	Co (230.786 nm)	0.0024	4.20	52.5249
	R2408410-011	Cr (267.716 nm)	0.0011	6.72	68.1424
	R2408410-011	Cu (327.395 nm)	0.0177	0.33	652.5519
	R2408410-011	Fe (234.350 nm)	0.0455	0.71	1091.1099
	R2408410-011	K (766.491 nm)	48.8038	0.57	60273.7390
	R2408410-011	Mg (279.078 nm)	0.0137	6.33	56.3644
	R2408410-011	Mn (257.610 nm)	0.0015	0.87	528.7580
	R2408410-011	Mo (202.032 nm)	0.0028	7.00	37.2608
	R2408410-011	Na (588.995 nm)	1645.0534 o	0.94	30092574.0687
	R2408410-011	Ni (230.299 nm)	0.0269	0.63	345.2677
	R2408410-011	Pb (220.353 nm)	0.0022	> 100.00	12.5659
	R2408410-011	Sb (217.582 nm)	0.0019	69.12	11.6015
	R2408410-011	Se (196.026 nm)	0.0007 u	> 100.00	2.4282
	R2408410-011	Si (252.851 nm)	6.7104	0.50	42825.1076
	R2408410-011	Sn (189.925 nm)	0.0118	6.08	33.9444
	R2408410-011	Sr (216.596 nm)	0.0198	2.15	386.4936
	R2408410-011	Ti (336.122 nm)	0.0026	31.38	462.6726
	R2408410-011	Tl (190.794 nm)	0.0112	10.29	9.0844
	R2408410-011	V (292.401 nm)	0.0049	5.22	194.3008
	R2408410-011	Y (360.074 nm)	0.71	0.65	365661.73
	R2408410-011	Y_R (360.074 nm)	0.71	0.65	366088.29
	R2408410-011	Zn (213.857 nm)	0.8749	0.36	51927.4198
9/9/2024 23:22:10	R2408410-012	Ag (328.068 nm)	0.0001 u	> 100.00	-106.7273
	R2408410-012	Al (237.312 nm)	4.5409	0.05	11544.2633
	R2408410-012	As (188.980 nm)	0.0028	32.38	3.2107
	R2408410-012	B (249.772 nm)	0.1255	0.17	5290.4835
	R2408410-012	Ba (230.424 nm)	0.1044	0.26	6341.5270
	R2408410-012	Be (313.107 nm)	0.0002	1.85	225.3452
	R2408410-012	Ca (317.933 nm)	430.0774 o	0.34	13332930.2484

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408410-012	Cd (214.439 nm)	0.0098	0.29	600.2606
	R2408410-012	Co (230.786 nm)	0.2117	0.43	4268.3272
	R2408410-012	Cr (267.716 nm)	0.1143	0.43	6653.8647
	R2408410-012	Cu (327.395 nm)	0.8225	0.36	36661.7686
	R2408410-012	Fe (234.350 nm)	155.1556 o	0.39	3547346.5100
	R2408410-012	K (766.491 nm)	3.4434	1.92	4595.9645
	R2408410-012	Mg (279.078 nm)	33.8816	0.32	136815.6418
	R2408410-012	Mn (257.610 nm)	2.4414 o	0.28	847677.5338
	R2408410-012	Mo (202.032 nm)	0.0455	1.19	494.5766
	R2408410-012	Na (588.995 nm)	21.7207	2.17	387168.5615
	R2408410-012	Ni (230.299 nm)	0.2230	0.33	2836.8175
	R2408410-012	Pb (220.353 nm)	0.2433	0.49	1227.8331
	R2408410-012	Sb (217.582 nm)	-0.0016 u	61.20	3.4717
	R2408410-012	Se (196.026 nm)	-0.0095 u	49.87	-5.5769
	R2408410-012	Si (252.851 nm)	5.0907	0.17	32500.8932
	R2408410-012	Sn (189.925 nm)	0.0360	0.45	97.1411
	R2408410-012	Sr (216.596 nm)	1.2260	0.30	23555.5549
	R2408410-012	Ti (336.122 nm)	0.0273	2.52	4240.2435
	R2408410-012	Tl (190.794 nm)	0.0104	30.29	8.2909
	R2408410-012	V (292.401 nm)	0.0079	3.38	303.5386
	R2408410-012	Y (360.074 nm)	0.92	0.14	472384.23
	R2408410-012	Y_R (360.074 nm)	0.92	0.14	472747.60
	R2408410-012	Zn (213.857 nm)	66.6433 o	0.52	3954441.1766
9/9/2024 23:25:24	R2408410-013 20X	Ag (328.068 nm)	-0.0008 u	35.57	-158.5743
	R2408410-013 20X	Al (237.312 nm)	0.4989	1.91	1255.5920
	R2408410-013 20X	As (188.980 nm)	0.0024	> 100.00	2.4735
	R2408410-013 20X	B (249.772 nm)	0.3331	0.88	13972.9645
	R2408410-013 20X	Ba (230.424 nm)	0.0032	3.52	200.2534
	R2408410-013 20X	Be (313.107 nm)	0.0056	0.97	6672.7545
	R2408410-013 20X	Ca (317.933 nm)	7.4455	0.75	231913.8637
	R2408410-013 20X	Cd (214.439 nm)	0.0830	0.70	4988.9213
	R2408410-013 20X	Co (230.786 nm)	0.0388	0.63	786.1281
	R2408410-013 20X	Cr (267.716 nm)	0.0031	2.84	182.7163
	R2408410-013 20X	Cu (327.395 nm)	0.0011	10.00	-92.2590
	R2408410-013 20X	Fe (234.350 nm)	0.1717	9.11	3975.3961
	R2408410-013 20X	K (766.491 nm)	128.4093 o	1.27	157985.6243
	R2408410-013 20X	Mg (279.078 nm)	28.4182	0.62	114754.3132
	R2408410-013 20X	Mn (257.610 nm)	5.8363 o	0.73	2026426.5094
	R2408410-013 20X	Mo (202.032 nm)	0.0012	46.33	19.9417
	R2408410-013 20X	Na (588.995 nm)	224.1292 o	1.08	4091046.7755
	R2408410-013 20X	Ni (230.299 nm)	0.0995	1.18	1267.3743
	R2408410-013 20X	Pb (220.353 nm)	0.0384	4.08	195.2053
	R2408410-013 20X	Sb (217.582 nm)	0.0259	12.55	66.6210
	R2408410-013 20X	Se (196.026 nm)	0.0093	53.36	9.1315
	R2408410-013 20X	Si (252.851 nm)	0.1523	0.63	1021.1457
	R2408410-013 20X	Sn (189.925 nm)	0.0016	56.63	7.2498
	R2408410-013 20X	Sr (216.596 nm)	0.1278	0.63	2460.8237
	R2408410-013 20X	Ti (336.122 nm)	0.0011	33.09	239.3987
	R2408410-013 20X	Tl (190.794 nm)	0.1905	1.12	180.8893
	R2408410-013 20X	V (292.401 nm)	0.0000 u	> 100.00	13.2131
	R2408410-013 20X	Y (360.074 nm)	0.83	0.15	429180.88
	R2408410-013 20X	Y_R (360.074 nm)	0.83	0.15	429576.76
	R2408410-013 20X	Zn (213.857 nm)	277.1909 o	0.93	16447751.2821
9/9/2024 23:28:38	R2408410-015	Ag (328.068 nm)	0.0000 u	> 100.00	-114.9564
	R2408410-015	Al (237.312 nm)	0.6053	0.21	1526.4012
	R2408410-015	As (188.980 nm)	0.0129	14.26	19.3950
	R2408410-015	B (249.772 nm)	0.0452	0.59	1934.1817

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408410-015	Ba (230.424 nm)	0.0262	0.87	1598.3750
	R2408410-015	Be (313.107 nm)	0.0000 u	28.50	-16.7273
	R2408410-015	Ca (317.933 nm)	32.6239	0.25	1012411.1773
	R2408410-015	Cd (214.439 nm)	0.0002	39.82	24.5355
	R2408410-015	Co (230.786 nm)	0.0001 u	> 100.00	7.5481
	R2408410-015	Cr (267.716 nm)	0.0136	1.20	794.1370
	R2408410-015	Cu (327.395 nm)	0.0116	5.46	378.1722
	R2408410-015	Fe (234.350 nm)	10.8115	0.19	247233.1685
	R2408410-015	K (766.491 nm)	10.8256	1.34	13657.2879
	R2408410-015	Mg (279.078 nm)	8.1788	0.24	33027.3541
	R2408410-015	Mn (257.610 nm)	0.0182	0.26	6316.5799
	R2408410-015	Mo (202.032 nm)	0.0024	15.96	32.1299
	R2408410-015	Na (588.995 nm)	996.7379 o	0.78	18229032.2792
	R2408410-015	Ni (230.299 nm)	0.0508	0.80	648.9274
	R2408410-015	Pb (220.353 nm)	0.0031	25.72	17.0527
	R2408410-015	Sb (217.582 nm)	0.0382	2.74	94.7757
	R2408410-015	Se (196.026 nm)	-0.0017 u	> 100.00	0.5172
	R2408410-015	Si (252.851 nm)	12.7331	0.06	81216.7203
	R2408410-015	Sn (189.925 nm)	0.0112	5.36	32.4176
	R2408410-015	Sr (216.596 nm)	0.1492	0.46	2871.7292
	R2408410-015	Ti (336.122 nm)	0.0065	10.17	1056.2426
	R2408410-015	Tl (190.794 nm)	0.0369	4.75	33.7314
	R2408410-015	V (292.401 nm)	0.0009	12.58	47.7124
	R2408410-015	Y (360.074 nm)	0.86	0.13	442454.97
	R2408410-015	Y_R (360.074 nm)	0.86	0.13	442886.91
	R2408410-015	Zn (213.857 nm)	1.4170	4.76	84096.9580
9/9/2024 23:31:52	R2408410-016	Ag (328.068 nm)	0.0011	12.02	-52.4269
	R2408410-016	Al (237.312 nm)	71.6003 o	0.77	182241.3152
	R2408410-016	As (188.980 nm)	0.0217	1.68	33.5148
	R2408410-016	B (249.772 nm)	0.0560	1.07	2385.7046
	R2408410-016	Ba (230.424 nm)	0.0938	1.20	5699.5310
	R2408410-016	Be (313.107 nm)	0.0002	3.13	248.2405
	R2408410-016	Ca (317.933 nm)	314.7234 o	1.40	9757110.9452
	R2408410-016	Cd (214.439 nm)	0.0005	3.85	39.2601
	R2408410-016	Co (230.786 nm)	0.0209	0.76	425.8068
	R2408410-016	Cr (267.716 nm)	0.0397	1.27	2311.3941
	R2408410-016	Cu (327.395 nm)	0.4307	0.62	19131.8340
	R2408410-016	Fe (234.350 nm)	12.5393 o	1.37	286734.1290
	R2408410-016	K (766.491 nm)	426.4003 o	0.62	523755.2206
	R2408410-016	Mg (279.078 nm)	8.5862	1.57	34672.4259
	R2408410-016	Mn (257.610 nm)	0.1291	1.27	44839.5170
	R2408410-016	Mo (202.032 nm)	0.0873	1.47	943.0167
	R2408410-016	Na (588.995 nm)	2093.6222 o	0.16	38300945.4741
	R2408410-016	Ni (230.299 nm)	0.1488	1.23	1893.7303
	R2408410-016	Pb (220.353 nm)	0.0232	10.36	118.5238
	R2408410-016	Sb (217.582 nm)	0.0052	27.18	19.0670
	R2408410-016	Se (196.026 nm)	-0.0037 u	> 100.00	-1.0437
	R2408410-016	Si (252.851 nm)	32.9638	1.36	210175.0993
	R2408410-016	Sn (189.925 nm)	0.0128	4.33	36.5593
	R2408410-016	Sr (216.596 nm)	0.5451	1.40	10476.2923
	R2408410-016	Ti (336.122 nm)	0.2413	0.75	36968.2557
	R2408410-016	Tl (190.794 nm)	0.0262	18.14	23.4504
	R2408410-016	V (292.401 nm)	0.0574	1.25	2115.1219
	R2408410-016	Y (360.074 nm)	0.56	0.49	288630.81
	R2408410-016	Y_R (360.074 nm)	0.56	0.49	288974.35
	R2408410-016	Zn (213.857 nm)	45.1702 o	1.22	2680290.3011
9/9/2024 23:35:05	R2408410-017	Ag (328.068 nm)	-0.0007 u	41.82	-152.0585

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408410-017	Al (237.312 nm)	10.5430	1.55	26822.3980
	R2408410-017	As (188.980 nm)	-0.0006 u	> 100.00	-2.2578
	R2408410-017	B (249.772 nm)	0.1017	1.73	4294.5604
	R2408410-017	Ba (230.424 nm)	0.1682	1.27	10214.7557
	R2408410-017	Be (313.107 nm)	0.0000 u	> 100.00	-6.6152
	R2408410-017	Ca (317.933 nm)	386.4459 o	1.18	11980412.5615
	R2408410-017	Cd (214.439 nm)	0.0003	22.75	26.8913
	R2408410-017	Co (230.786 nm)	0.0308	2.65	625.5532
	R2408410-017	Cr (267.716 nm)	0.0098	1.24	574.2235
	R2408410-017	Cu (327.395 nm)	0.6188	1.64	27545.5307
	R2408410-017	Fe (234.350 nm)	0.9378	1.38	21490.9345
	R2408410-017	K (766.491 nm)	789.6149 o	2.23	969583.5689
	R2408410-017	Mg (279.078 nm)	0.1406	0.82	568.7130
	R2408410-017	Mn (257.610 nm)	0.0084	1.09	2927.2867
	R2408410-017	Mo (202.032 nm)	0.0392	1.87	426.5549
	R2408410-017	Na (588.995 nm)	####	N/A	####
	R2408410-017	Ni (230.299 nm)	0.0229	1.64	294.5811
	R2408410-017	Pb (220.353 nm)	0.0034	47.59	18.5903
	R2408410-017	Sb (217.582 nm)	0.0025	96.58	12.9783
	R2408410-017	Se (196.026 nm)	0.0033 u	> 100.00	4.4342
	R2408410-017	Si (252.851 nm)	4.8726	1.91	31110.1148
	R2408410-017	Sn (189.925 nm)	0.0040	36.71	13.4808
	R2408410-017	Sr (216.596 nm)	0.8146	1.28	15653.0480
	R2408410-017	Ti (336.122 nm)	0.0110	5.95	1754.7692
	R2408410-017	Tl (190.794 nm)	0.0114	33.07	9.2848
	R2408410-017	V (292.401 nm)	0.0115	3.35	434.0924
	R2408410-017	Y (360.074 nm)	0.35	0.73	180451.49
	R2408410-017	Y_R (360.074 nm)	0.35	0.73	180747.41
	R2408410-017	Zn (213.857 nm)	16.9599 o	1.40	1006368.0899
9/9/2024 23:38:18	Continuing Calibration Verification1	Ag (328.068 nm)	0.4898	0.10	27367.0736
	Continuing Calibration Verification1	Al (237.312 nm)	9.2945	0.04	23644.2282
	Continuing Calibration Verification1	As (188.980 nm)	0.9828	0.45	1574.5177
	Continuing Calibration Verification1	B (249.772 nm)	2.2428 Q	0.25	93843.8874 Q
	Continuing Calibration Verification1	Ba (230.424 nm)	9.5395	0.34	579052.9097
	Continuing Calibration Verification1	Be (313.107 nm)	0.2414	0.11	287266.4838
	Continuing Calibration Verification1	Ca (317.933 nm)	25.5822	0.16	794126.6049
	Continuing Calibration Verification1	Cd (214.439 nm)	0.5042	0.14	30264.8087
	Continuing Calibration Verification1	Co (230.786 nm)	2.4574	0.26	49489.1890
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5043	0.06	29350.2565
	Continuing Calibration Verification1	Cu (327.395 nm)	1.1659	0.13	52025.1043
	Continuing Calibration Verification1	Fe (234.350 nm)	4.8422	0.17	110757.7319
	Continuing Calibration Verification1	K (766.491 nm)	23.7419	0.56	29511.4916
	Continuing Calibration Verification1	Mg (279.078 nm)	25.7380	0.12	103931.7779
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7168	0.14	248881.0723
	Continuing Calibration Verification1	Mo (202.032 nm)	2.4972	0.33	26779.0336
	Continuing Calibration Verification1	Na (588.995 nm)	27.3198	3.37	489626.4836
	Continuing Calibration Verification1	Ni (230.299 nm)	1.9752	0.20	25108.3549
	Continuing Calibration Verification1	Pb (220.353 nm)	0.4987	0.23	2515.3389
	Continuing Calibration Verification1	Sb (217.582 nm)	4.8035	0.13	11022.6756
	Continuing Calibration Verification1	Se (196.026 nm)	0.4852	0.88	381.4646
	Continuing Calibration Verification1	Si (252.851 nm)	9.7051	0.75	61914.8455
	Continuing Calibration Verification1	Sn (189.925 nm)	5.0266	0.06	13142.0225
	Continuing Calibration Verification1	Sr (216.596 nm)	2.5048	0.23	48117.4729
	Continuing Calibration Verification1	Ti (336.122 nm)	2.4592	0.26	376169.1682
	Continuing Calibration Verification1	Tl (190.794 nm)	0.8665 Q	1.02	828.6562 Q
	Continuing Calibration Verification1	V (292.401 nm)	2.4794	0.14	90782.3813
	Continuing Calibration Verification1	Y (360.074 nm)	0.99	0.39	513215.47

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification1	Y_R (360.074 nm)	1.00	0.38	513638.94
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9824	0.30	58309.7935
9/9/2024 23:41:32	Continuing Calibration Blank1	Ag (328.068 nm)	-0.0002 u	66.41	-122.1459
	Continuing Calibration Blank1	Al (237.312 nm)	0.0022	> 100.00	-8.9172
	Continuing Calibration Blank1	As (188.980 nm)	-0.0005 u	> 100.00	-2.0971
	Continuing Calibration Blank1	B (249.772 nm)	0.0036	33.92	191.3621
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0010	7.40	69.7158
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000	> 100.00	-5.8963
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0078	2.52	1356.7175
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0001	19.34	15.1147
	Continuing Calibration Blank1	Co (230.786 nm)	0.0001 u	> 100.00	7.4236
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0001 u	> 100.00	6.9588
	Continuing Calibration Blank1	Cu (327.395 nm)	-0.0001 u	> 100.00	-145.2320
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0101	20.47	282.5605
	Continuing Calibration Blank1	K (766.491 nm)	0.5338	13.69	1024.5998
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0009 u	> 100.00	4.8592
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0001	9.67	44.6394
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0089	12.77	102.0500
	Continuing Calibration Blank1	Na (588.995 nm)	4.4621 Z	6.57	71353.5450 Z
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0007	40.35	11.9438
	Continuing Calibration Blank1	Pb (220.353 nm)	0.0002 u	> 100.00	2.3544
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0125	28.40	35.9408
	Continuing Calibration Blank1	Se (196.026 nm)	0.0002 u	> 100.00	2.0109
	Continuing Calibration Blank1	Si (252.851 nm)	0.0165	5.28	155.3096
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0033	21.97	11.5428
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0002	56.72	8.8943
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0114	24.87	1815.6415
	Continuing Calibration Blank1	Tl (190.794 nm)	0.0178 Z	6.05	15.4536 Z
	Continuing Calibration Blank1	V (292.401 nm)	0.0002	71.02	20.9968
	Continuing Calibration Blank1	Y (360.074 nm)	1.03	0.06	533323.84
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.03	0.06	533679.73
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0133	3.19	805.6476
9/9/2024 23:44:46	R2408410-018 20X	Ag (328.068 nm)	-0.0004 u	13.62	-132.4516
	R2408410-018 20X	Al (237.312 nm)	0.1899	0.94	468.9781
	R2408410-018 20X	As (188.980 nm)	0.0014 u	> 100.00	0.8739
	R2408410-018 20X	B (249.772 nm)	0.1118	1.41	4716.6175
	R2408410-018 20X	Ba (230.424 nm)	0.0611	1.10	3715.8011
	R2408410-018 20X	Be (313.107 nm)	0.0000 u	> 100.00	-15.7533
	R2408410-018 20X	Ca (317.933 nm)	7.5875	1.39	236315.5365
	R2408410-018 20X	Cd (214.439 nm)	0.0001	82.05	14.4338
	R2408410-018 20X	Co (230.786 nm)	0.0001 u	94.94	7.4462
	R2408410-018 20X	Cr (267.716 nm)	0.0003	24.32	22.1253
	R2408410-018 20X	Cu (327.395 nm)	0.0015	10.48	-74.9271
	R2408410-018 20X	Fe (234.350 nm)	0.0603	0.89	1429.0612
	R2408410-018 20X	K (766.491 nm)	35.3657	2.07	43779.1085
	R2408410-018 20X	Mg (279.078 nm)	2.3939	1.22	9667.7853
	R2408410-018 20X	Mn (257.610 nm)	0.0263	1.41	9145.1490
	R2408410-018 20X	Mo (202.032 nm)	0.0024	39.86	32.1759
	R2408410-018 20X	Na (588.995 nm)	1600.5081 o	2.64	29277439.7183
	R2408410-018 20X	Ni (230.299 nm)	0.0010	24.55	15.5886
	R2408410-018 20X	Pb (220.353 nm)	0.0007	58.84	5.0971
	R2408410-018 20X	Sb (217.582 nm)	0.0022	35.93	12.3500
	R2408410-018 20X	Se (196.026 nm)	-0.0017 u	84.78	0.5443
	R2408410-018 20X	Si (252.851 nm)	0.0761	0.91	535.6230
	R2408410-018 20X	Sn (189.925 nm)	0.0009	> 100.00	5.4078
	R2408410-018 20X	Sr (216.596 nm)	0.0215	0.52	419.0093
	R2408410-018 20X	Ti (336.122 nm)	0.0044	32.09	745.6385

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408410-018 20X	Tl (190.794 nm)	0.0101	23.43	8.0053
	R2408410-018 20X	V (292.401 nm)	0.0000 u	> 100.00	15.4329
	R2408410-018 20X	Y (360.074 nm)	0.71	0.97	368462.98
	R2408410-018 20X	Y_R (360.074 nm)	0.72	0.96	368911.69
	R2408410-018 20X	Zn (213.857 nm)	0.0539	3.27	3213.7053
9/9/2024 23:47:59	R2408410-018L 100X	Ag (328.068 nm)	-0.0003 u	> 100.00	-127.8541
	R2408410-018L 100X	Al (237.312 nm)	0.0358	4.49	76.6398
	R2408410-018L 100X	As (188.980 nm)	0.0001 u	> 100.00	-1.1591
	R2408410-018L 100X	B (249.772 nm)	0.0233	0.66	1018.0254
	R2408410-018L 100X	Ba (230.424 nm)	0.0131	0.69	798.3645
	R2408410-018L 100X	Be (313.107 nm)	0.0000 u	10.71	-19.1795
	R2408410-018L 100X	Ca (317.933 nm)	1.6532	0.33	52362.1181
	R2408410-018L 100X	Cd (214.439 nm)	0.0000 u	> 100.00	12.4771
	R2408410-018L 100X	Co (230.786 nm)	-0.0001 u	36.98	2.2753
	R2408410-018L 100X	Cr (267.716 nm)	0.0002	18.20	14.1953
	R2408410-018L 100X	Cu (327.395 nm)	-0.0004 u	33.87	-156.0731
	R2408410-018L 100X	Fe (234.350 nm)	0.0158	6.12	412.3086
	R2408410-018L 100X	K (766.491 nm)	4.4653	0.17	5850.3991
	R2408410-018L 100X	Mg (279.078 nm)	0.5505	0.56	2223.9325
	R2408410-018L 100X	Mn (257.610 nm)	0.0056	0.28	1958.8857
	R2408410-018L 100X	Mo (202.032 nm)	0.0009	29.66	16.6940
	R2408410-018L 100X	Na (588.995 nm)	908.1653 o	0.43	16608240.5579
	R2408410-018L 100X	Ni (230.299 nm)	0.0003	70.19	6.9710
	R2408410-018L 100X	Pb (220.353 nm)	0.0001 u	> 100.00	2.1281
	R2408410-018L 100X	Sb (217.582 nm)	0.0021	38.89	11.9418
	R2408410-018L 100X	Se (196.026 nm)	-0.0013 u	> 100.00	0.8417
	R2408410-018L 100X	Si (252.851 nm)	0.0491	3.63	363.6331
	R2408410-018L 100X	Sn (189.925 nm)	0.0009	89.98	5.3794
	R2408410-018L 100X	Sr (216.596 nm)	0.0044	2.89	90.8882
	R2408410-018L 100X	Ti (336.122 nm)	0.0025	35.51	445.4735
	R2408410-018L 100X	Tl (190.794 nm)	0.0076	33.02	5.5910
	R2408410-018L 100X	V (292.401 nm)	-0.0001 u	> 100.00	11.7776
	R2408410-018L 100X	Y (360.074 nm)	0.85	0.94	439495.48
	R2408410-018L 100X	Y_R (360.074 nm)	0.85	0.94	439952.19
	R2408410-018L 100X	Zn (213.857 nm)	0.0155	1.52	933.6271
9/9/2024 23:51:13	R2408410-004 5X	Ag (328.068 nm)	-0.0001 u	> 100.00	-117.1090
	R2408410-004 5X	Al (237.312 nm)	0.0352	2.49	75.1034
	R2408410-004 5X	As (188.980 nm)	0.0032	41.39	3.8208
	R2408410-004 5X	B (249.772 nm)	0.0422	0.61	1805.9040
	R2408410-004 5X	Ba (230.424 nm)	0.0063	0.36	385.6903
	R2408410-004 5X	Be (313.107 nm)	0.0000	27.44	11.3822
	R2408410-004 5X	Ca (317.933 nm)	6.9861	0.27	217674.0479
	R2408410-004 5X	Cd (214.439 nm)	0.0010	3.27	70.6177
	R2408410-004 5X	Co (230.786 nm)	0.0000 u	> 100.00	5.9958
	R2408410-004 5X	Cr (267.716 nm)	0.0147	0.60	859.3469
	R2408410-004 5X	Cu (327.395 nm)	0.0077	2.58	204.6819
	R2408410-004 5X	Fe (234.350 nm)	0.1246	0.59	2898.5265
	R2408410-004 5X	K (766.491 nm)	98.9848 o	0.24	121868.4372
	R2408410-004 5X	Mg (279.078 nm)	1.8508	0.34	7474.5016
	R2408410-004 5X	Mn (257.610 nm)	0.0032	0.53	1114.3510
	R2408410-004 5X	Mo (202.032 nm)	0.0045	6.89	55.2484
	R2408410-004 5X	Na (588.995 nm)	235.4172 o	0.20	4297605.6232
	R2408410-004 5X	Ni (230.299 nm)	0.0026	15.71	36.2779
	R2408410-004 5X	Pb (220.353 nm)	0.0000 u	> 100.00	1.5699
	R2408410-004 5X	Sb (217.582 nm)	0.0031	57.38	14.3515
	R2408410-004 5X	Se (196.026 nm)	0.0036	45.74	4.7010
	R2408410-004 5X	Si (252.851 nm)	0.1786	0.95	1189.0490

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408410-004 5X	Sn (189.925 nm)	0.0002	85.65	3.5699
	R2408410-004 5X	Sr (216.596 nm)	0.0348	0.89	673.7837
	R2408410-004 5X	Ti (336.122 nm)	0.0137	3.22	2165.7052
	R2408410-004 5X	Tl (190.794 nm)	0.0091	6.17	7.0524
	R2408410-004 5X	V (292.401 nm)	0.0019	3.39	83.7249
	R2408410-004 5X	Y (360.074 nm)	0.94	0.56	484350.33
	R2408410-004 5X	Y_R (360.074 nm)	0.94	0.56	484861.10
	R2408410-004 5X	Zn (213.857 nm)	0.1177	0.29	6998.1974
9/9/2024 23:54:26	R2408410-005 5X	Ag (328.068 nm)	0.0000 u	> 100.00	-110.2319
	R2408410-005 5X	Al (237.312 nm)	0.0421	5.27	92.7457
	R2408410-005 5X	As (188.980 nm)	0.0009 u	> 100.00	0.0056
	R2408410-005 5X	B (249.772 nm)	0.0230	0.20	1003.1129
	R2408410-005 5X	Ba (230.424 nm)	0.0089	0.68	548.9060
	R2408410-005 5X	Be (313.107 nm)	0.0000 u	> 100.00	-11.5597
	R2408410-005 5X	Ca (317.933 nm)	73.3647 o	0.12	2275318.7753
	R2408410-005 5X	Cd (214.439 nm)	0.0005	7.74	38.2059
	R2408410-005 5X	Co (230.786 nm)	0.0021	13.27	48.0312
	R2408410-005 5X	Cr (267.716 nm)	0.0010	8.51	62.3702
	R2408410-005 5X	Cu (327.395 nm)	1.0734	0.07	47886.5876
	R2408410-005 5X	Fe (234.350 nm)	0.0733	1.21	1726.0161
	R2408410-005 5X	K (766.491 nm)	9.1211	0.59	11565.1376
	R2408410-005 5X	Mg (279.078 nm)	3.7653	0.06	15205.5972
	R2408410-005 5X	Mn (257.610 nm)	0.1154	0.05	40065.2093
	R2408410-005 5X	Mo (202.032 nm)	0.0018	11.33	26.4079
	R2408410-005 5X	Na (588.995 nm)	131.6911 o	0.07	2399520.5969
	R2408410-005 5X	Ni (230.299 nm)	0.0181	1.89	232.9952
	R2408410-005 5X	Pb (220.353 nm)	0.0025	33.56	13.9795
	R2408410-005 5X	Sb (217.582 nm)	0.0033	30.69	14.8676
	R2408410-005 5X	Se (196.026 nm)	-0.0043 u	16.79	-1.5069
	R2408410-005 5X	Si (252.851 nm)	1.6684	0.09	10685.4495
	R2408410-005 5X	Sn (189.925 nm)	0.0016	43.06	7.1286
	R2408410-005 5X	Sr (216.596 nm)	0.5727	0.18	11006.0400
	R2408410-005 5X	Ti (336.122 nm)	0.0033	14.14	576.2519
	R2408410-005 5X	Tl (190.794 nm)	0.0118	3.78	9.6190
	R2408410-005 5X	V (292.401 nm)	0.0003	59.52	26.0977
	R2408410-005 5X	Y (360.074 nm)	0.96	0.36	495591.39
	R2408410-005 5X	Y_R (360.074 nm)	0.96	0.36	496064.81
	R2408410-005 5X	Zn (213.857 nm)	31.9476 o	0.09	1895697.6112
9/9/2024 23:57:40	R2408410-006 5X	Ag (328.068 nm)	-0.0002 u	52.87	-125.7231
	R2408410-006 5X	Al (237.312 nm)	3.8612	0.57	9814.1849
	R2408410-006 5X	As (188.980 nm)	0.0012 u	> 100.00	0.6251
	R2408410-006 5X	B (249.772 nm)	0.0432	0.14	1847.8553
	R2408410-006 5X	Ba (230.424 nm)	0.0152	0.52	929.1765
	R2408410-006 5X	Be (313.107 nm)	0.0000 u	> 100.00	-15.2043
	R2408410-006 5X	Ca (317.933 nm)	76.8543 o	0.32	2383494.3377
	R2408410-006 5X	Cd (214.439 nm)	0.0001	37.48	14.8800
	R2408410-006 5X	Co (230.786 nm)	0.0006	13.17	16.5012
	R2408410-006 5X	Cr (267.716 nm)	0.0023	1.04	138.3909
	R2408410-006 5X	Cu (327.395 nm)	0.0098	2.47	298.5645
	R2408410-006 5X	Fe (234.350 nm)	0.8370	0.63	19187.8231
	R2408410-006 5X	K (766.491 nm)	12.9735	0.34	16293.7360
	R2408410-006 5X	Mg (279.078 nm)	9.5595	0.38	38602.4707
	R2408410-006 5X	Mn (257.610 nm)	0.0267	0.38	9274.7271
	R2408410-006 5X	Mo (202.032 nm)	0.0125	1.75	140.4294
	R2408410-006 5X	Na (588.995 nm)	230.5739 o	0.35	4208978.5262
	R2408410-006 5X	Ni (230.299 nm)	0.0089	4.00	116.0881
	R2408410-006 5X	Pb (220.353 nm)	0.0086	8.31	44.5539

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408410-006 5X	Sb (217.582 nm)	0.0020	32.88	11.8997
	R2408410-006 5X	Se (196.026 nm)	-0.0019 u	> 100.00	0.3545
	R2408410-006 5X	Si (252.851 nm)	1.4970	0.50	9592.9398
	R2408410-006 5X	Sn (189.925 nm)	0.0018	17.48	7.6326
	R2408410-006 5X	Sr (216.596 nm)	0.1665	0.34	3203.3686
	R2408410-006 5X	Ti (336.122 nm)	0.0115	2.80	1831.3559
	R2408410-006 5X	Tl (190.794 nm)	0.0076	19.77	5.6059
	R2408410-006 5X	V (292.401 nm)	0.0014	13.79	64.9710
	R2408410-006 5X	Y (360.074 nm)	0.95	0.54	491136.47
	R2408410-006 5X	Y_R (360.074 nm)	0.95	0.54	491623.13
	R2408410-006 5X	Zn (213.857 nm)	0.0941	0.40	5598.0627
9/10/2024 00:00:54	R2408410-007 5X	Ag (328.068 nm)	0.0001	83.39	-107.8355
	R2408410-007 5X	Al (237.312 nm)	0.0214	7.99	40.0891
	R2408410-007 5X	As (188.980 nm)	0.0017 u	> 100.00	1.4389
	R2408410-007 5X	B (249.772 nm)	0.0319	0.26	1375.9259
	R2408410-007 5X	Ba (230.424 nm)	0.0039	2.14	241.6096
	R2408410-007 5X	Be (313.107 nm)	0.0000 u	> 100.00	-16.6861
	R2408410-007 5X	Ca (317.933 nm)	48.7336	0.06	1511787.8683
	R2408410-007 5X	Cd (214.439 nm)	0.0009	2.54	61.2535
	R2408410-007 5X	Co (230.786 nm)	0.0050	2.75	106.0378
	R2408410-007 5X	Cr (267.716 nm)	0.0007	16.11	42.3991
	R2408410-007 5X	Cu (327.395 nm)	1.5407	0.17	68795.0310
	R2408410-007 5X	Fe (234.350 nm)	0.0595	2.21	1411.5838
	R2408410-007 5X	K (766.491 nm)	7.9541	0.07	10132.7107
	R2408410-007 5X	Mg (279.078 nm)	3.6958	0.04	14924.8968
	R2408410-007 5X	Mn (257.610 nm)	0.1489	0.04	51701.7796
	R2408410-007 5X	Mo (202.032 nm)	0.0005 u	> 100.00	11.9424
	R2408410-007 5X	Na (588.995 nm)	133.9845 o	0.13	2441487.5280
	R2408410-007 5X	Ni (230.299 nm)	0.0319	0.35	409.0826
	R2408410-007 5X	Pb (220.353 nm)	0.0013	33.44	7.9549
	R2408410-007 5X	Sb (217.582 nm)	0.0019	40.20	11.4540
	R2408410-007 5X	Se (196.026 nm)	-0.0039 u	51.90	-1.2144
	R2408410-007 5X	Si (252.851 nm)	0.7751	0.12	4990.9540
	R2408410-007 5X	Sn (189.925 nm)	0.0003 u	> 100.00	3.8744
	R2408410-007 5X	Sr (216.596 nm)	0.3648	0.15	7012.8744
	R2408410-007 5X	Ti (336.122 nm)	0.0010	37.54	215.1142
	R2408410-007 5X	Tl (190.794 nm)	0.0139	2.15	11.7041
	R2408410-007 5X	V (292.401 nm)	0.0002	80.67	20.3788
	R2408410-007 5X	Y (360.074 nm)	0.96	0.23	496750.71
	R2408410-007 5X	Y_R (360.074 nm)	0.96	0.23	497239.27
	R2408410-007 5X	Zn (213.857 nm)	67.7710 o	0.13	4021357.7957
9/10/2024 00:04:07	R2408410-008 5X	Ag (328.068 nm)	-0.0003 u	14.13	-128.0522
	R2408410-008 5X	Al (237.312 nm)	0.0029	75.97	-7.2081
	R2408410-008 5X	As (188.980 nm)	-0.0018 u	99.51	-4.2710
	R2408410-008 5X	B (249.772 nm)	0.0020	1.68	125.6875
	R2408410-008 5X	Ba (230.424 nm)	0.0089	0.65	547.9899
	R2408410-008 5X	Be (313.107 nm)	0.0000 u	> 100.00	-12.7091
	R2408410-008 5X	Ca (317.933 nm)	187.2687 o	0.19	5806190.4626
	R2408410-008 5X	Cd (214.439 nm)	0.0000 u	> 100.00	7.5062
	R2408410-008 5X	Co (230.786 nm)	-0.0001 u	36.46	1.9768
	R2408410-008 5X	Cr (267.716 nm)	0.0005	26.98	31.5279
	R2408410-008 5X	Cu (327.395 nm)	-0.0001 u	96.16	-143.9173
	R2408410-008 5X	Fe (234.350 nm)	0.0092	7.86	260.6035
	R2408410-008 5X	K (766.491 nm)	0.5581	6.27	1054.4853
	R2408410-008 5X	Mg (279.078 nm)	0.0759	1.22	307.7180
	R2408410-008 5X	Mn (257.610 nm)	0.0001	10.64	51.1044
	R2408410-008 5X	Mo (202.032 nm)	0.0005	34.30	11.7776

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408410-008 5X	Na (588.995 nm)	4.7974	1.02	77489.0196
	R2408410-008 5X	Ni (230.299 nm)	0.0010	9.90	16.0652
	R2408410-008 5X	Pb (220.353 nm)	0.0008	> 100.00	5.6425
	R2408410-008 5X	Sb (217.582 nm)	0.0003 u	> 100.00	7.8362
	R2408410-008 5X	Se (196.026 nm)	-0.0009 u	> 100.00	1.1647
	R2408410-008 5X	Si (252.851 nm)	0.2658	0.40	1744.7998
	R2408410-008 5X	Sn (189.925 nm)	0.0002 u	> 100.00	3.5156
	R2408410-008 5X	Sr (216.596 nm)	0.1038	0.25	2000.5007
	R2408410-008 5X	Ti (336.122 nm)	0.0002 u	> 100.00	92.6401
	R2408410-008 5X	Tl (190.794 nm)	0.0061	23.51	4.2358
	R2408410-008 5X	V (292.401 nm)	0.0003	41.63	25.2154
	R2408410-008 5X	Y (360.074 nm)	0.98	0.23	503512.67
	R2408410-008 5X	Y_R (360.074 nm)	0.98	0.23	503993.13
	R2408410-008 5X	Zn (213.857 nm)	0.0135	2.53	812.9918
9/10/2024 00:07:21	R2408410-013 100X	Ag (328.068 nm)	-0.0003 u	9.07	-126.8743
	R2408410-013 100X	Al (237.312 nm)	0.0922	5.44	220.2902
	R2408410-013 100X	As (188.980 nm)	-0.0024 u	46.18	-5.1437
	R2408410-013 100X	B (249.772 nm)	0.0632	0.30	2684.4559
	R2408410-013 100X	Ba (230.424 nm)	0.0007	5.38	48.3656
	R2408410-013 100X	Be (313.107 nm)	0.0011	0.32	1269.9053
	R2408410-013 100X	Ca (317.933 nm)	1.4877	0.12	47229.4593
	R2408410-013 100X	Cd (214.439 nm)	0.0170	0.52	1030.3046
	R2408410-013 100X	Co (230.786 nm)	0.0082	1.25	169.1793
	R2408410-013 100X	Cr (267.716 nm)	0.0006	17.82	38.2913
	R2408410-013 100X	Cu (327.395 nm)	-0.0002 u	53.50	-149.6693
	R2408410-013 100X	Fe (234.350 nm)	0.0200	2.22	507.3171
	R2408410-013 100X	K (766.491 nm)	22.3844	0.33	27845.1331
	R2408410-013 100X	Mg (279.078 nm)	5.9339	0.03	23962.4030
	R2408410-013 100X	Mn (257.610 nm)	1.1749	0.07	407936.2970
	R2408410-013 100X	Mo (202.032 nm)	-0.0006 u	55.12	0.3622
	R2408410-013 100X	Na (588.995 nm)	42.8790	0.34	774344.9693
	R2408410-013 100X	Ni (230.299 nm)	0.0204	1.19	262.9111
	R2408410-013 100X	Pb (220.353 nm)	0.0080	12.68	41.8329
	R2408410-013 100X	Sb (217.582 nm)	0.0036	67.40	15.3782
	R2408410-013 100X	Se (196.026 nm)	-0.0008 u	> 100.00	1.2521
	R2408410-013 100X	Si (252.851 nm)	0.0586	2.93	423.7739
	R2408410-013 100X	Sn (189.925 nm)	0.0003 u	> 100.00	3.8886
	R2408410-013 100X	Sr (216.596 nm)	0.0257	1.32	499.2930
	R2408410-013 100X	Ti (336.122 nm)	0.0006	31.80	155.5216
	R2408410-013 100X	Tl (190.794 nm)	0.0371	3.61	33.8914
	R2408410-013 100X	V (292.401 nm)	0.0001 u	> 100.00	19.5488
	R2408410-013 100X	Y (360.074 nm)	0.94	0.09	483262.22
	R2408410-013 100X	Y_R (360.074 nm)	0.94	0.09	483735.26
	R2408410-013 100X	Zn (213.857 nm)	228.7836 o	0.27	13575394.6992
9/10/2024 00:10:35	R2408410-015 5X	Ag (328.068 nm)	-0.0003 u	42.41	-129.6865
	R2408410-015 5X	Al (237.312 nm)	0.1184	0.60	287.0366
	R2408410-015 5X	As (188.980 nm)	0.0031	51.89	3.6474
	R2408410-015 5X	B (249.772 nm)	0.0087	0.99	406.8398
	R2408410-015 5X	Ba (230.424 nm)	0.0053	0.52	327.2422
	R2408410-015 5X	Be (313.107 nm)	0.0000 u	> 100.00	-18.5563
	R2408410-015 5X	Ca (317.933 nm)	6.5846	0.05	205226.0905
	R2408410-015 5X	Cd (214.439 nm)	0.0000 u	> 100.00	12.4989
	R2408410-015 5X	Co (230.786 nm)	0.0001	> 100.00	7.3489
	R2408410-015 5X	Cr (267.716 nm)	0.0027	3.56	163.4661
	R2408410-015 5X	Cu (327.395 nm)	0.0020	5.49	-49.8748
	R2408410-015 5X	Fe (234.350 nm)	2.1416	0.12	49013.0817
	R2408410-015 5X	K (766.491 nm)	1.5511	2.64	2273.2507

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408410-015 5X	Mg (279.078 nm)	1.7358	0.14	7010.4090
	R2408410-015 5X	Mn (257.610 nm)	0.0037	1.04	1285.2171
	R2408410-015 5X	Mo (202.032 nm)	0.0007	21.26	14.0398
	R2408410-015 5X	Na (588.995 nm)	238.9422 o	0.11	4362110.9154
	R2408410-015 5X	Ni (230.299 nm)	0.0094	2.28	122.7626
	R2408410-015 5X	Pb (220.353 nm)	0.0010 u	> 100.00	6.5525
	R2408410-015 5X	Sb (217.582 nm)	0.0121	15.41	34.8408
	R2408410-015 5X	Se (196.026 nm)	0.0006 u	> 100.00	2.3037
	R2408410-015 5X	Si (252.851 nm)	2.5395	0.09	16238.1569
	R2408410-015 5X	Sn (189.925 nm)	0.0029	54.87	10.7164
	R2408410-015 5X	Sr (216.596 nm)	0.0297	0.28	577.1582
	R2408410-015 5X	Ti (336.122 nm)	0.0017	14.27	323.0203
	R2408410-015 5X	Tl (190.794 nm)	0.0141	9.75	11.8631
	R2408410-015 5X	V (292.401 nm)	0.0001 u	> 100.00	19.5528
	R2408410-015 5X	Y (360.074 nm)	0.94	0.17	485520.09
	R2408410-015 5X	Y_R (360.074 nm)	0.94	0.17	486030.36
	R2408410-015 5X	Zn (213.857 nm)	0.3537	11.61	21002.3601
9/10/2024 00:13:49	R2408410-018 100X	Ag (328.068 nm)	-0.0002 u	37.15	-123.3767
	R2408410-018 100X	Al (237.312 nm)	0.0369	1.09	79.5761
	R2408410-018 100X	As (188.980 nm)	-0.0006 u	> 100.00	-2.2735
	R2408410-018 100X	B (249.772 nm)	0.0224	0.66	980.4873
	R2408410-018 100X	Ba (230.424 nm)	0.0128	1.33	780.8835
	R2408410-018 100X	Be (313.107 nm)	0.0000 u	20.38	-16.4417
	R2408410-018 100X	Ca (317.933 nm)	1.6431	0.42	52048.4384
	R2408410-018 100X	Cd (214.439 nm)	0.0000 u	> 100.00	10.9980
	R2408410-018 100X	Co (230.786 nm)	-0.0001 u	82.83	2.5235
	R2408410-018 100X	Cr (267.716 nm)	0.0001	81.15	9.5906
	R2408410-018 100X	Cu (327.395 nm)	-0.0003 u	52.02	-153.7183
	R2408410-018 100X	Fe (234.350 nm)	0.0190	8.83	485.6232
	R2408410-018 100X	K (766.491 nm)	3.3695	7.35	4505.2588
	R2408410-018 100X	Mg (279.078 nm)	0.5441	0.27	2198.1922
	R2408410-018 100X	Mn (257.610 nm)	0.0056	0.47	1943.8299
	R2408410-018 100X	Mo (202.032 nm)	-0.0003 u	38.23	3.7326
	R2408410-018 100X	Na (588.995 nm)	972.5621 o	0.74	17786639.3691
	R2408410-018 100X	Ni (230.299 nm)	0.0007	56.43	11.5297
	R2408410-018 100X	Pb (220.353 nm)	-0.0002 u	> 100.00	0.2484
	R2408410-018 100X	Sb (217.582 nm)	0.0004 u	> 100.00	8.1115
	R2408410-018 100X	Se (196.026 nm)	-0.0013 u	77.09	0.8489
	R2408410-018 100X	Si (252.851 nm)	0.0465	2.21	346.8989
	R2408410-018 100X	Sn (189.925 nm)	0.0003 u	> 100.00	3.7424
	R2408410-018 100X	Sr (216.596 nm)	0.0045	6.64	92.1867
	R2408410-018 100X	Ti (336.122 nm)	0.0005	36.07	137.1904
	R2408410-018 100X	Tl (190.794 nm)	0.0058	60.24	3.8764
	R2408410-018 100X	V (292.401 nm)	-0.0001 u	68.12	8.8281
	R2408410-018 100X	Y (360.074 nm)	0.87	0.41	448485.07
	R2408410-018 100X	Y_R (360.074 nm)	0.87	0.41	448993.24
	R2408410-018 100X	Zn (213.857 nm)	0.0182	11.76	1092.0501
9/10/2024 00:17:03	Continuing Calibration Verification1	Ag (328.068 nm)	0.4969	0.04	27761.8393
	Continuing Calibration Verification1	Al (237.312 nm)	9.4166	0.13	23955.2267
	Continuing Calibration Verification1	As (188.980 nm)	0.9975	0.09	1598.0096
	Continuing Calibration Verification1	B (249.772 nm)	2.2846	0.23	95592.5587
	Continuing Calibration Verification1	Ba (230.424 nm)	9.6941	0.04	588437.6416
	Continuing Calibration Verification1	Be (313.107 nm)	0.2460	0.11	292829.4071
	Continuing Calibration Verification1	Ca (317.933 nm)	25.9956	0.23	806943.3172
	Continuing Calibration Verification1	Cd (214.439 nm)	0.5134	0.14	30818.2513
	Continuing Calibration Verification1	Co (230.786 nm)	2.4957	0.22	50261.1784
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5135	0.20	29882.2914

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Verification1	Cu (327.395 nm)	1.1813	0.03	52714.8356
	Continuing Calibration Verification1	Fe (234.350 nm)	4.9193	0.17	112519.7820
	Continuing Calibration Verification1	K (766.491 nm)	23.2965	0.59	28964.7659
	Continuing Calibration Verification1	Mg (279.078 nm)	26.2314	0.10	105924.0734
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7286	0.14	252979.2506
	Continuing Calibration Verification1	Mo (202.032 nm)	2.5369	0.46	27204.2236
	Continuing Calibration Verification1	Na (588.995 nm)	23.5703	0.74	421015.5429
	Continuing Calibration Verification1	Ni (230.299 nm)	2.0078	0.29	25522.5189
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5067	0.17	2555.5234
	Continuing Calibration Verification1	Sb (217.582 nm)	4.8819	0.24	11202.5476
	Continuing Calibration Verification1	Se (196.026 nm)	0.4868	0.37	382.7737
	Continuing Calibration Verification1	Si (252.851 nm)	9.6464	0.72	61540.6327
	Continuing Calibration Verification1	Sn (189.925 nm)	5.1081	0.06	13355.1431
	Continuing Calibration Verification1	Sr (216.596 nm)	2.5504	0.11	48992.8574
	Continuing Calibration Verification1	Ti (336.122 nm)	2.4991	0.23	382275.5598
	Continuing Calibration Verification1	Tl (190.794 nm)	0.8391 Q	0.20	802.3582 Q
	Continuing Calibration Verification1	V (292.401 nm)	2.5197	0.13	92257.7500
	Continuing Calibration Verification1	Y (360.074 nm)	0.96	0.51	497481.67
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.97	0.51	497918.77
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9953	0.10	59074.5126
9/10/2024 00:20:17	Continuing Calibration Blank1	Ag (328.068 nm)	-0.0002 u	31.42	-125.3421
	Continuing Calibration Blank1	Al (237.312 nm)	0.0034	44.40	-5.9016
	Continuing Calibration Blank1	As (188.980 nm)	0.0012	46.85	0.4929
	Continuing Calibration Blank1	B (249.772 nm)	0.0037	34.87	198.3306
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0012	3.73	79.8511
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000 u	91.42	-4.0078
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0085	0.84	1378.6444
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0001	43.20	15.0892
	Continuing Calibration Blank1	Co (230.786 nm)	-0.0002 u	34.66	1.3380
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0001	36.29	9.8727
	Continuing Calibration Blank1	Cu (327.395 nm)	-0.0004 u	6.53	-157.4831
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0085	21.73	245.5415
	Continuing Calibration Blank1	K (766.491 nm)	0.2350	1.95	657.9032
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0016	52.82	7.7406
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0001	14.10	45.7409
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0093	11.27	106.7601
	Continuing Calibration Blank1	Na (588.995 nm)	1.3388 Z	2.32	14199.8930 Z
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0004	69.28	7.7323
	Continuing Calibration Blank1	Pb (220.353 nm)	-0.0003 u	> 100.00	-0.2539
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0104	40.70	31.0069
	Continuing Calibration Blank1	Se (196.026 nm)	-0.0004 u	> 100.00	1.5566
	Continuing Calibration Blank1	Si (252.851 nm)	0.0085	16.45	104.7847
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0027	33.92	9.9816
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0004	63.15	13.0583
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0109	24.13	1737.1614
	Continuing Calibration Blank1	Tl (190.794 nm)	0.0205 Z	6.88	18.0019 Z
	Continuing Calibration Blank1	V (292.401 nm)	0.0002	18.38	22.6966
	Continuing Calibration Blank1	Y (360.074 nm)	1.01	0.18	521288.35
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.01	0.18	521746.76
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0051	6.27	318.7611
9/10/2024 00:23:32	PBT-444356	Ag (328.068 nm)	-0.0003 u	17.89	-127.6205
	PBT-444356	Al (237.312 nm)	0.0023	88.25	-8.5429
	PBT-444356	As (188.980 nm)	-0.0008 u	> 100.00	-2.5738
	PBT-444356	B (249.772 nm)	0.0027	5.39	155.1985
	PBT-444356	Ba (230.424 nm)	0.0002	2.31	19.6654
	PBT-444356	Be (313.107 nm)	0.0000 u	> 100.00	-13.2254
	PBT-444356	Ca (317.933 nm)	0.0195	1.85	1717.9774

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	PBT-444356	Cd (214.439 nm)	0.0001	51.66	16.6116
	PBT-444356	Co (230.786 nm)	-0.0001 u	> 100.00	2.5024
	PBT-444356	Cr (267.716 nm)	0.0003	46.99	18.9402
	PBT-444356	Cu (327.395 nm)	-0.0001 u	> 100.00	-145.4712
	PBT-444356	Fe (234.350 nm)	0.0163	15.76	423.1396
	PBT-444356	K (766.491 nm)	0.3070	4.59	746.2185
	PBT-444356	Mg (279.078 nm)	0.0005	57.77	3.2511
	PBT-444356	Mn (257.610 nm)	0.0000	12.89	26.9252
	PBT-444356	Mo (202.032 nm)	0.0027	13.90	35.8631
	PBT-444356	Na (588.995 nm)	1.5474	1.18	18017.0848
	PBT-444356	Ni (230.299 nm)	0.0001	74.06	4.7729
	PBT-444356	Pb (220.353 nm)	-0.0006 u	> 100.00	-1.6146
	PBT-444356	Sb (217.582 nm)	0.0059	28.70	20.7951
	PBT-444356	Se (196.026 nm)	-0.0004 u	> 100.00	1.5510
	PBT-444356	Si (252.851 nm)	0.0190	15.62	171.8199
	PBT-444356	Sn (189.925 nm)	0.0032	35.71	11.5140
	PBT-444356	Sr (216.596 nm)	0.0001	67.84	7.5489
	PBT-444356	Ti (336.122 nm)	0.0061	30.15	994.9570
	PBT-444356	Tl (190.794 nm)	0.0247	17.06	22.0589
	PBT-444356	V (292.401 nm)	0.0000 u	> 100.00	13.8911
	PBT-444356	Y (360.074 nm)	1.00	0.36	513753.03
	PBT-444356	Y_R (360.074 nm)	1.00	0.36	514195.32
	PBT-444356	Zn (213.857 nm)	0.0030	1.39	189.9296
9/10/2024 00:26:47	LCST-444356	Ag (328.068 nm)	0.2537	0.16	14119.4685
	LCST-444356	Al (237.312 nm)	-0.0008 u	> 100.00	-16.6131
	LCST-444356	As (188.980 nm)	0.9818	0.33	1572.9175
	LCST-444356	B (249.772 nm)	0.0022	10.91	131.8029
	LCST-444356	Ba (230.424 nm)	1.9599	0.42	118970.5588
	LCST-444356	Be (313.107 nm)	0.0000 u	> 100.00	-16.2038
	LCST-444356	Ca (317.933 nm)	0.0198	1.01	1728.0120
	LCST-444356	Cd (214.439 nm)	0.5204	0.17	31235.6686
	LCST-444356	Co (230.786 nm)	0.0000 u	64.30	4.0110
	LCST-444356	Cr (267.716 nm)	0.5102	0.24	29694.7750
	LCST-444356	Cu (327.395 nm)	0.9904	0.27	44174.6987
	LCST-444356	Fe (234.350 nm)	0.0160	7.67	417.1073
	LCST-444356	K (766.491 nm)	0.2834	5.37	717.2750
	LCST-444356	Mg (279.078 nm)	0.0005	43.84	3.0462
	LCST-444356	Mn (257.610 nm)	0.0000	42.21	21.7252
	LCST-444356	Mo (202.032 nm)	0.0009	38.09	16.0406
	LCST-444356	Na (588.995 nm)	1.4139	0.46	15574.0544
	LCST-444356	Ni (230.299 nm)	1.0276	0.30	13064.0703
	LCST-444356	Pb (220.353 nm)	0.5282	0.18	2664.2149
	LCST-444356	Sb (217.582 nm)	0.0061	16.18	21.2847
	LCST-444356	Se (196.026 nm)	0.9973	0.22	782.2299
	LCST-444356	Si (252.851 nm)	0.0558	5.48	406.1054
	LCST-444356	Sn (189.925 nm)	0.0030	11.29	10.8897
	LCST-444356	Sr (216.596 nm)	0.0000 u	> 100.00	5.1610
	LCST-444356	Ti (336.122 nm)	0.0025	36.38	451.4298
	LCST-444356	Tl (190.794 nm)	0.0177	12.17	15.3586
	LCST-444356	V (292.401 nm)	-0.0002 u	98.84	8.2984
	LCST-444356	Y (360.074 nm)	1.00	0.32	514315.67
	LCST-444356	Y_R (360.074 nm)	1.00	0.32	514760.56
	LCST-444356	Zn (213.857 nm)	1.0000	0.33	59353.3805
9/10/2024 00:30:03	RQ2411022-01 3X	Ag (328.068 nm)	-0.0001 u	> 100.00	-117.9973
	RQ2411022-01 3X	Al (237.312 nm)	0.0053	42.65	-0.8576
	RQ2411022-01 3X	As (188.980 nm)	0.0058	8.30	7.9797
	RQ2411022-01 3X	B (249.772 nm)	0.0025	8.51	144.4955

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	RQ2411022-01 3X	Ba (230.424 nm)	0.0003	39.59	26.3749
	RQ2411022-01 3X	Be (313.107 nm)	0.0000 u	40.36	-20.8461
	RQ2411022-01 3X	Ca (317.933 nm)	0.0315	0.61	2089.6934
	RQ2411022-01 3X	Cd (214.439 nm)	0.0000 u	89.73	11.7407
	RQ2411022-01 3X	Co (230.786 nm)	-0.0001 u	25.60	2.8368
	RQ2411022-01 3X	Cr (267.716 nm)	0.0005	13.05	32.8242
	RQ2411022-01 3X	Cu (327.395 nm)	0.0006	12.93	-114.0987
	RQ2411022-01 3X	Fe (234.350 nm)	0.0118	2.87	321.6574
	RQ2411022-01 3X	K (766.491 nm)	1.1542	4.81	1786.1481
	RQ2411022-01 3X	Mg (279.078 nm)	0.0040	27.40	17.3282
	RQ2411022-01 3X	Mn (257.610 nm)	0.0005	1.28	186.1258
	RQ2411022-01 3X	Mo (202.032 nm)	0.0001 u	> 100.00	7.7472
	RQ2411022-01 3X	Na (588.995 nm)	443.6219 o	0.95	8107550.3746
	RQ2411022-01 3X	Ni (230.299 nm)	0.0006	54.01	10.3982
	RQ2411022-01 3X	Pb (220.353 nm)	0.0009 u	> 100.00	5.9714
	RQ2411022-01 3X	Sb (217.582 nm)	0.0012	29.31	10.0565
	RQ2411022-01 3X	Se (196.026 nm)	0.0031 u	> 100.00	4.2965
	RQ2411022-01 3X	Si (252.851 nm)	0.0325	2.68	257.5851
	RQ2411022-01 3X	Sn (189.925 nm)	0.0011	78.45	5.9999
	RQ2411022-01 3X	Sr (216.596 nm)	0.0001 u	> 100.00	7.0942
	RQ2411022-01 3X	Ti (336.122 nm)	0.0014	35.26	280.7080
	RQ2411022-01 3X	Tl (190.794 nm)	0.0056	11.18	3.6890
	RQ2411022-01 3X	V (292.401 nm)	-0.0001 u	88.42	12.4227
	RQ2411022-01 3X	Y (360.074 nm)	0.92	0.89	473988.16
	RQ2411022-01 3X	Y_R (360.074 nm)	0.92	0.89	474429.14
	RQ2411022-01 3X	Zn (213.857 nm)	0.0070	1.50	430.7203
9/10/2024 00:33:18	RQ2411022-02 3X	Ag (328.068 nm)	-0.0003 u	79.40	-130.7272
	RQ2411022-02 3X	Al (237.312 nm)	0.0008 u	> 100.00	-12.3304
	RQ2411022-02 3X	As (188.980 nm)	0.0030	16.44	3.4901
	RQ2411022-02 3X	B (249.772 nm)	0.0020	3.76	126.2602
	RQ2411022-02 3X	Ba (230.424 nm)	0.0002	30.17	19.0156
	RQ2411022-02 3X	Be (313.107 nm)	0.0000 u	> 100.00	-17.4345
	RQ2411022-02 3X	Ca (317.933 nm)	0.0168	0.92	1634.0839
	RQ2411022-02 3X	Cd (214.439 nm)	0.0000 u	> 100.00	9.7146
	RQ2411022-02 3X	Co (230.786 nm)	-0.0001 u	41.50	2.1855
	RQ2411022-02 3X	Cr (267.716 nm)	0.0006	18.99	40.5875
	RQ2411022-02 3X	Cu (327.395 nm)	-0.0005 u	56.07	-161.3999
	RQ2411022-02 3X	Fe (234.350 nm)	0.0032	4.29	124.3371
	RQ2411022-02 3X	K (766.491 nm)	1.0909	3.29	1708.3755
	RQ2411022-02 3X	Mg (279.078 nm)	0.0014	42.47	6.9806
	RQ2411022-02 3X	Mn (257.610 nm)	0.0001	21.50	38.3830
	RQ2411022-02 3X	Mo (202.032 nm)	0.0002	57.79	8.9819
	RQ2411022-02 3X	Na (588.995 nm)	406.5775 o	0.44	7429673.8777
	RQ2411022-02 3X	Ni (230.299 nm)	0.0005	78.28	8.9518
	RQ2411022-02 3X	Pb (220.353 nm)	-0.0006 u	> 100.00	-1.6470
	RQ2411022-02 3X	Sb (217.582 nm)	0.0016 u	96.56	10.9792
	RQ2411022-02 3X	Se (196.026 nm)	-0.0015 u	> 100.00	0.7121
	RQ2411022-02 3X	Si (252.851 nm)	0.0301	4.60	242.3903
	RQ2411022-02 3X	Sn (189.925 nm)	0.0014	14.22	6.7407
	RQ2411022-02 3X	Sr (216.596 nm)	0.0002	93.00	9.0615
	RQ2411022-02 3X	Ti (336.122 nm)	0.0010	47.09	222.8122
	RQ2411022-02 3X	Tl (190.794 nm)	0.0020	76.35	0.2407
	RQ2411022-02 3X	V (292.401 nm)	0.0000 u	> 100.00	12.5843
	RQ2411022-02 3X	Y (360.074 nm)	0.92	0.61	475373.07
	RQ2411022-02 3X	Y_R (360.074 nm)	0.92	0.61	475860.46
	RQ2411022-02 3X	Zn (213.857 nm)	0.0025	5.62	163.3865
9/10/2024 00:36:33	RQ2411027-01	Ag (328.068 nm)	-0.0003 u	12.05	-131.3705

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	RQ2411027-01	Al (237.312 nm)	0.0228	4.78	43.6640
	RQ2411027-01	As (188.980 nm)	0.0021 u	> 100.00	1.9798
	RQ2411027-01	B (249.772 nm)	0.0023	2.55	140.0555
	RQ2411027-01	Ba (230.424 nm)	0.0005	9.08	38.5350
	RQ2411027-01	Be (313.107 nm)	0.0000 u	> 100.00	-9.7334
	RQ2411027-01	Ca (317.933 nm)	0.1121	0.12	4589.5231
	RQ2411027-01	Cd (214.439 nm)	0.0000 u	> 100.00	11.8989
	RQ2411027-01	Co (230.786 nm)	0.0000 u	> 100.00	5.3269
	RQ2411027-01	Cr (267.716 nm)	0.0004	13.44	27.5776
	RQ2411027-01	Cu (327.395 nm)	0.0011	6.95	-90.4609
	RQ2411027-01	Fe (234.350 nm)	0.0383	1.34	926.4489
	RQ2411027-01	K (766.491 nm)	0.2963	11.25	733.0659
	RQ2411027-01	Mg (279.078 nm)	0.0080	10.01	33.3841
	RQ2411027-01	Mn (257.610 nm)	0.0018	1.76	651.8952
	RQ2411027-01	Mo (202.032 nm)	0.0005	16.57	11.9763
	RQ2411027-01	Na (588.995 nm)	1.7522	2.85	21764.7481
	RQ2411027-01	Ni (230.299 nm)	0.0003	81.44	7.1821
	RQ2411027-01	Pb (220.353 nm)	0.0011	15.55	7.0676
	RQ2411027-01	Sb (217.582 nm)	0.0025	43.49	12.9604
	RQ2411027-01	Se (196.026 nm)	-0.0002 u	> 100.00	1.6678
	RQ2411027-01	Si (252.851 nm)	0.0190	10.45	171.7444
	RQ2411027-01	Sn (189.925 nm)	0.0024	22.09	9.2598
	RQ2411027-01	Sr (216.596 nm)	0.0000 u	> 100.00	6.3861
	RQ2411027-01	Ti (336.122 nm)	0.0012	37.94	250.2000
	RQ2411027-01	Tl (190.794 nm)	0.0099	29.48	7.8247
	RQ2411027-01	V (292.401 nm)	0.0001 u	> 100.00	17.7233
	RQ2411027-01	Y (360.074 nm)	1.00	0.50	515998.06
	RQ2411027-01	Y_R (360.074 nm)	1.00	0.50	516427.24
	RQ2411027-01	Zn (213.857 nm)	0.0045	1.72	284.1298
9/10/2024 00:39:49	R2408251-001 3X	Ag (328.068 nm)	-0.0001 u	> 100.00	-120.6024
	R2408251-001 3X	Al (237.312 nm)	0.2532	2.02	630.1251
	R2408251-001 3X	As (188.980 nm)	0.0045	57.83	5.7780
	R2408251-001 3X	B (249.772 nm)	0.0818	1.62	3463.6906
	R2408251-001 3X	Ba (230.424 nm)	0.0564	1.62	3429.5502
	R2408251-001 3X	Be (313.107 nm)	0.0000 u	> 100.00	-10.1612
	R2408251-001 3X	Ca (317.933 nm)	87.1466 o	1.57	2702541.2499
	R2408251-001 3X	Cd (214.439 nm)	0.0009	4.90	65.0642
	R2408251-001 3X	Co (230.786 nm)	0.0053	1.62	111.0263
	R2408251-001 3X	Cr (267.716 nm)	0.0044	3.05	262.0845
	R2408251-001 3X	Cu (327.395 nm)	0.0541	1.75	2279.2386
	R2408251-001 3X	Fe (234.350 nm)	4.3968	1.59	100574.0214
	R2408251-001 3X	K (766.491 nm)	2.9869	1.97	4035.6161
	R2408251-001 3X	Mg (279.078 nm)	9.1159	1.44	36811.4564
	R2408251-001 3X	Mn (257.610 nm)	0.9563	1.61	332045.2132
	R2408251-001 3X	Mo (202.032 nm)	0.0013	21.77	21.1884
	R2408251-001 3X	Na (588.995 nm)	403.6392 o	2.08	7375905.9711
	R2408251-001 3X	Ni (230.299 nm)	0.0254	2.38	326.1527
	R2408251-001 3X	Pb (220.353 nm)	0.0079	10.12	41.0843
	R2408251-001 3X	Sb (217.582 nm)	0.0001 u	> 100.00	7.4119
	R2408251-001 3X	Se (196.026 nm)	-0.0026 u	> 100.00	-0.1833
	R2408251-001 3X	Si (252.851 nm)	0.9594	1.79	6165.8922
	R2408251-001 3X	Sn (189.925 nm)	0.0027	25.66	10.0413
	R2408251-001 3X	Sr (216.596 nm)	0.3459	1.65	6650.6496
	R2408251-001 3X	Ti (336.122 nm)	0.0061	4.31	993.5458
	R2408251-001 3X	Tl (190.794 nm)	0.0046	78.29	2.7383
	R2408251-001 3X	V (292.401 nm)	0.0012	24.51	58.1837
	R2408251-001 3X	Y (360.074 nm)	0.92	0.74	473194.52

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408251-001 3X	Y_R (360.074 nm)	0.92	0.74	473707.41
	R2408251-001 3X	Zn (213.857 nm)	1.5257	1.73	90544.5380
9/10/2024 00:43:04	R2408366-001	Ag (328.068 nm)	-0.0001 u	> 100.00	-118.0095
	R2408366-001	Al (237.312 nm)	0.6143	0.52	1549.1910
	R2408366-001	As (188.980 nm)	0.0024	50.37	2.4464
	R2408366-001	B (249.772 nm)	0.1460	0.09	6148.5158
	R2408366-001	Ba (230.424 nm)	0.2605	0.17	15820.6443
	R2408366-001	Be (313.107 nm)	0.0007	1.13	844.6576
	R2408366-001	Ca (317.933 nm)	749.1138 o	0.14	23222626.5456
	R2408366-001	Cd (214.439 nm)	0.0030	0.60	189.5321
	R2408366-001	Co (230.786 nm)	0.0196	1.63	400.5224
	R2408366-001	Cr (267.716 nm)	0.0023	5.13	137.4607
	R2408366-001	Cu (327.395 nm)	0.0058	1.99	120.6030
	R2408366-001	Fe (234.350 nm)	3.1898	0.13	72977.9695
	R2408366-001	K (766.491 nm)	2.6350	0.45	3603.7033
	R2408366-001	Mg (279.078 nm)	462.9122 o	0.17	1869250.8343
	R2408366-001	Mn (257.610 nm)	3.0630 o	0.21	1063528.2055
	R2408366-001	Mo (202.032 nm)	0.0004	82.50	10.6741
	R2408366-001	Na (588.995 nm)	53.6900	0.13	972175.4965
	R2408366-001	Ni (230.299 nm)	0.0237	2.32	304.5183
	R2408366-001	Pb (220.353 nm)	0.0257	4.98	131.0018
	R2408366-001	Sb (217.582 nm)	0.0009	> 100.00	9.2870
	R2408366-001	Se (196.026 nm)	0.0021 u	> 100.00	3.5072
	R2408366-001	Si (252.851 nm)	2.7265	0.05	17430.2758
	R2408366-001	Sn (189.925 nm)	0.0029	52.87	10.7360
	R2408366-001	Sr (216.596 nm)	0.8599	0.18	16522.4793
	R2408366-001	Ti (336.122 nm)	0.0047	11.92	779.4634
	R2408366-001	Tl (190.794 nm)	0.0085	23.23	6.4628
	R2408366-001	V (292.401 nm)	0.0022	5.28	93.6821
	R2408366-001	Y (360.074 nm)	0.86	0.50	445823.78
	R2408366-001	Y_R (360.074 nm)	0.87	0.49	446309.14
	R2408366-001	Zn (213.857 nm)	0.7923	0.22	47024.8707
9/10/2024 00:46:19	R2408414-001 3X	Ag (328.068 nm)	-0.0004 u	67.19	-132.3346
	R2408414-001 3X	Al (237.312 nm)	0.0341	2.14	72.2713
	R2408414-001 3X	As (188.980 nm)	0.0069	21.49	9.6450
	R2408414-001 3X	B (249.772 nm)	0.1015	0.58	4286.6503
	R2408414-001 3X	Ba (230.424 nm)	0.4169	0.58	25311.0913
	R2408414-001 3X	Be (313.107 nm)	0.0000 u	> 100.00	-11.7257
	R2408414-001 3X	Ca (317.933 nm)	60.9522 o	0.64	1890548.1696
	R2408414-001 3X	Cd (214.439 nm)	0.0007	17.98	51.6537
	R2408414-001 3X	Co (230.786 nm)	0.0002 u	> 100.00	8.0678
	R2408414-001 3X	Cr (267.716 nm)	0.0008	13.85	51.2754
	R2408414-001 3X	Cu (327.395 nm)	0.0430	0.51	1782.9306
	R2408414-001 3X	Fe (234.350 nm)	0.1095	0.82	2553.1082
	R2408414-001 3X	K (766.491 nm)	5.6657	0.50	7323.7402
	R2408414-001 3X	Mg (279.078 nm)	9.1080	0.82	36779.5563
	R2408414-001 3X	Mn (257.610 nm)	0.9523	0.59	330652.0922
	R2408414-001 3X	Mo (202.032 nm)	-0.0002 u	68.40	5.0481
	R2408414-001 3X	Na (588.995 nm)	417.6950 o	0.56	7633112.1984
	R2408414-001 3X	Ni (230.299 nm)	0.0118	1.62	152.5244
	R2408414-001 3X	Pb (220.353 nm)	0.0034	15.86	18.5384
	R2408414-001 3X	Sb (217.582 nm)	0.0011 u	93.33	9.6387
	R2408414-001 3X	Se (196.026 nm)	0.0002 u	> 100.00	2.0120
	R2408414-001 3X	Si (252.851 nm)	0.6554	0.30	4228.2077
	R2408414-001 3X	Sn (189.925 nm)	0.0007 u	> 100.00	4.8131
	R2408414-001 3X	Sr (216.596 nm)	0.2583	0.62	4966.8283
	R2408414-001 3X	Ti (336.122 nm)	0.0007	22.38	169.6565

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408414-001 3X	Tl (190.794 nm)	0.0027	13.14	0.9056
	R2408414-001 3X	V (292.401 nm)	0.0003	35.30	23.8292
	R2408414-001 3X	Y (360.074 nm)	0.94	1.19	486796.98
	R2408414-001 3X	Y_R (360.074 nm)	0.94	1.19	487312.29
	R2408414-001 3X	Zn (213.857 nm)	0.9341	1.05	55438.5722
9/10/2024 00:49:34	R2408466-001 3X	Ag (328.068 nm)	-0.0003 u	83.35	-127.1489
	R2408466-001 3X	Al (237.312 nm)	0.7804	0.94	1972.0666
	R2408466-001 3X	As (188.980 nm)	0.0543	2.64	85.6363
	R2408466-001 3X	B (249.772 nm)	0.2167	0.69	9103.1877
	R2408466-001 3X	Ba (230.424 nm)	0.3358	0.67	20390.3294
	R2408466-001 3X	Be (313.107 nm)	0.0001	4.98	99.4404
	R2408466-001 3X	Ca (317.933 nm)	41.6438	0.74	1292016.5498
	R2408466-001 3X	Cd (214.439 nm)	0.0034	0.70	210.8209
	R2408466-001 3X	Co (230.786 nm)	0.0112	1.35	230.6865
	R2408466-001 3X	Cr (267.716 nm)	0.0031	1.11	183.6334
	R2408466-001 3X	Cu (327.395 nm)	0.0241	1.94	939.9842
	R2408466-001 3X	Fe (234.350 nm)	67.5570 o	0.66	1544595.0578
	R2408466-001 3X	K (766.491 nm)	5.5235	1.74	7149.2142
	R2408466-001 3X	Mg (279.078 nm)	9.8824	0.82	39906.3709
	R2408466-001 3X	Mn (257.610 nm)	0.4758	0.77	165218.0530
	R2408466-001 3X	Mo (202.032 nm)	0.0005	58.99	12.2514
	R2408466-001 3X	Na (588.995 nm)	1005.0855 o	1.52	18381786.7788
	R2408466-001 3X	Ni (230.299 nm)	0.0955	0.66	1216.7100
	R2408466-001 3X	Pb (220.353 nm)	0.0730	0.27	369.4720
	R2408466-001 3X	Sb (217.582 nm)	-0.0006 u	> 100.00	5.8731
	R2408466-001 3X	Se (196.026 nm)	-0.0005 u	> 100.00	1.4788
	R2408466-001 3X	Si (252.851 nm)	0.9964	0.39	6402.0770
	R2408466-001 3X	Sn (189.925 nm)	0.0055	4.48	17.3366
	R2408466-001 3X	Sr (216.596 nm)	0.0976	0.80	1880.0935
	R2408466-001 3X	Ti (336.122 nm)	0.0025	12.45	454.5503
	R2408466-001 3X	Tl (190.794 nm)	0.0053	9.11	3.3821
	R2408466-001 3X	V (292.401 nm)	0.0085	1.40	327.0054
	R2408466-001 3X	Y (360.074 nm)	0.87	1.52	450293.61
	R2408466-001 3X	Y_R (360.074 nm)	0.87	1.52	450799.22
	R2408466-001 3X	Zn (213.857 nm)	15.7410 o	0.82	934039.8601
9/10/2024 00:52:49	R2408466-001S 3X	Ag (328.068 nm)	0.2599	0.91	14467.7752
	R2408466-001S 3X	Al (237.312 nm)	0.8082	0.99	2042.6689
	R2408466-001S 3X	As (188.980 nm)	1.1426	0.98	1830.7768
	R2408466-001S 3X	B (249.772 nm)	0.2231	0.78	9371.9897
	R2408466-001S 3X	Ba (230.424 nm)	2.2310	0.87	135427.5766
	R2408466-001S 3X	Be (313.107 nm)	0.0001	10.81	93.2568
	R2408466-001S 3X	Ca (317.933 nm)	42.8262	0.76	1328666.8511
	R2408466-001S 3X	Cd (214.439 nm)	0.5145	0.78	30881.4926
	R2408466-001S 3X	Co (230.786 nm)	0.0115	0.30	235.8536
	R2408466-001S 3X	Cr (267.716 nm)	0.4948	0.92	28796.4857
	R2408466-001S 3X	Cu (327.395 nm)	1.0569	0.77	47146.5145
	R2408466-001S 3X	Fe (234.350 nm)	69.5679 o	0.85	1590569.2929
	R2408466-001S 3X	K (766.491 nm)	5.9687	2.11	7695.7338
	R2408466-001S 3X	Mg (279.078 nm)	10.1225	0.88	40875.9779
	R2408466-001S 3X	Mn (257.610 nm)	0.4892	0.92	169879.3493
	R2408466-001S 3X	Mo (202.032 nm)	0.0007	18.67	14.7315
	R2408466-001S 3X	Na (588.995 nm)	1017.5227 o	1.63	18609374.2414
	R2408466-001S 3X	Ni (230.299 nm)	1.0592	0.85	13465.6064
	R2408466-001S 3X	Pb (220.353 nm)	0.5653	0.64	2850.9469
	R2408466-001S 3X	Sb (217.582 nm)	-0.0001 u	> 100.00	7.0590
	R2408466-001S 3X	Se (196.026 nm)	1.1396 o	0.83	893.5371
	R2408466-001S 3X	Si (252.851 nm)	1.1159	0.96	7163.6688

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408466-001S 3X	Sn (189.925 nm)	0.0058	16.74	18.2041
	R2408466-001S 3X	Sr (216.596 nm)	0.0987	0.95	1901.9178
	R2408466-001S 3X	Ti (336.122 nm)	0.0026	7.01	470.9592
	R2408466-001S 3X	Tl (190.794 nm)	0.0026	62.81	0.8229
	R2408466-001S 3X	V (292.401 nm)	0.0077	2.16	296.8884
	R2408466-001S 3X	Y (360.074 nm)	0.86	1.31	443764.18
	R2408466-001S 3X	Y_R (360.074 nm)	0.86	1.32	444230.13
	R2408466-001S 3X	Zn (213.857 nm)	17.0953 o	1.51	1014403.0117
9/10/2024 00:56:03	Continuing Calibration Verification1	Ag (328.068 nm)	0.4953	0.05	27676.1937
	Continuing Calibration Verification1	Al (237.312 nm)	9.3117	0.05	23687.9820
	Continuing Calibration Verification1	As (188.980 nm)	0.9973	0.27	1597.7136
	Continuing Calibration Verification1	B (249.772 nm)	2.2710	0.35	95026.2484
	Continuing Calibration Verification1	Ba (230.424 nm)	9.6547	0.33	586045.9706
	Continuing Calibration Verification1	Be (313.107 nm)	0.2462	0.11	292980.0244
	Continuing Calibration Verification1	Ca (317.933 nm)	26.0596	0.19	808926.1272
	Continuing Calibration Verification1	Cd (214.439 nm)	0.5142	0.24	30861.6109
	Continuing Calibration Verification1	Co (230.786 nm)	2.4957	0.19	50261.7608
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5138	0.20	29905.2543
	Continuing Calibration Verification1	Cu (327.395 nm)	1.1752	0.24	52439.9858
	Continuing Calibration Verification1	Fe (234.350 nm)	4.9506	0.15	113235.4709
	Continuing Calibration Verification1	K (766.491 nm)	22.9789	0.28	28574.8308
	Continuing Calibration Verification1	Mg (279.078 nm)	26.2963	0.15	106186.0135
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7257	0.19	251964.8284
	Continuing Calibration Verification1	Mo (202.032 nm)	2.5313	0.45	27144.1448
	Continuing Calibration Verification1	Na (588.995 nm)	23.1016	0.58	412437.1608
	Continuing Calibration Verification1	Ni (230.299 nm)	2.0027	0.18	25457.1033
	Continuing Calibration Verification1	Pb (220.353 nm)	0.5067	0.41	2555.6175
	Continuing Calibration Verification1	Sb (217.582 nm)	4.8574	0.13	11146.3433
	Continuing Calibration Verification1	Se (196.026 nm)	0.4888	0.17	384.3551
	Continuing Calibration Verification1	Si (252.851 nm)	9.5663	0.74	61029.6801
	Continuing Calibration Verification1	Sn (189.925 nm)	5.1087	0.11	13356.7780
	Continuing Calibration Verification1	Sr (216.596 nm)	2.5505	0.27	48994.4714
	Continuing Calibration Verification1	Ti (336.122 nm)	2.4943	0.24	381538.4035
	Continuing Calibration Verification1	Tl (190.794 nm)	0.8160 Q	0.32	780.2970 Q
	Continuing Calibration Verification1	V (292.401 nm)	2.5186	0.18	92216.7200
	Continuing Calibration Verification1	Y (360.074 nm)	0.95	0.23	491811.07
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.95	0.24	492259.81
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9910	0.04	58815.7902
9/10/2024 00:59:17	Continuing Calibration Blank1	Ag (328.068 nm)	-0.0003 u	24.37	-128.6257
	Continuing Calibration Blank1	Al (237.312 nm)	0.0024	20.35	-8.3980
	Continuing Calibration Blank1	As (188.980 nm)	0.0037	47.27	4.5143
	Continuing Calibration Blank1	B (249.772 nm)	0.0035	35.08	187.6452
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0014	4.09	90.4318
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000	28.67	-5.6102
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0097	2.67	1415.5287
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0001	48.43	13.8892
	Continuing Calibration Blank1	Co (230.786 nm)	0.0002	75.76	9.6606
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0001	64.70	7.8963
	Continuing Calibration Blank1	Cu (327.395 nm)	-0.0001 u	72.41	-144.2323
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0095	21.69	267.4635
	Continuing Calibration Blank1	K (766.491 nm)	0.1597	8.56	565.4232
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0022	60.78	9.9675
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0001	7.93	57.7713
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0093	16.80	106.0218
	Continuing Calibration Blank1	Na (588.995 nm)	0.9808	3.06	7649.0243
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0006	34.55	10.2341
	Continuing Calibration Blank1	Pb (220.353 nm)	-0.0004 u	> 100.00	-0.6376

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0069	24.38	23.0783
	Continuing Calibration Blank1	Se (196.026 nm)	-0.0019 u	> 100.00	0.3348
	Continuing Calibration Blank1	Si (252.851 nm)	0.0072	23.00	96.6402
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0029	20.69	10.4927
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0002	11.01	10.5933
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0099	25.07	1584.7700
	Continuing Calibration Blank1	Tl (190.794 nm)	0.0182 Z	3.88	15.7516 Z
	Continuing Calibration Blank1	V (292.401 nm)	0.0004	29.62	27.1950
	Continuing Calibration Blank1	Y (360.074 nm)	1.01	0.12	519126.95
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.01	0.11	519598.00
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0034	4.88	213.5194
9/10/2024 01:02:31	R2408466-001SD 3X	Ag (328.068 nm)	0.2667	0.38	14848.6323
	R2408466-001SD 3X	Al (237.312 nm)	0.8126	0.41	2053.9095
	R2408466-001SD 3X	As (188.980 nm)	1.1726	0.51	1878.7657
	R2408466-001SD 3X	B (249.772 nm)	0.2287	0.37	9608.2784
	R2408466-001SD 3X	Ba (230.424 nm)	2.2922	0.18	139144.1267
	R2408466-001SD 3X	Be (313.107 nm)	0.0001	6.54	96.2779
	R2408466-001SD 3X	Ca (317.933 nm)	44.1204	0.40	1368785.2916
	R2408466-001SD 3X	Cd (214.439 nm)	0.5313	0.29	31891.9113
	R2408466-001SD 3X	Co (230.786 nm)	0.0121	0.44	249.5212
	R2408466-001SD 3X	Cr (267.716 nm)	0.5104	0.42	29705.1439
	R2408466-001SD 3X	Cu (327.395 nm)	1.0795	0.35	48161.6088
	R2408466-001SD 3X	Fe (234.350 nm)	71.6425 o	0.36	1638002.0673
	R2408466-001SD 3X	K (766.491 nm)	5.8951	4.11	7605.3601
	R2408466-001SD 3X	Mg (279.078 nm)	10.4614	0.18	42244.6161
	R2408466-001SD 3X	Mn (257.610 nm)	0.5037	0.28	174887.6534
	R2408466-001SD 3X	Mo (202.032 nm)	0.0030	24.31	39.1596
	R2408466-001SD 3X	Na (588.995 nm)	1066.2387 o	1.02	19500829.0652
	R2408466-001SD 3X	Ni (230.299 nm)	1.0917	0.36	13878.4647
	R2408466-001SD 3X	Pb (220.353 nm)	0.5829	0.37	2939.9106
	R2408466-001SD 3X	Sb (217.582 nm)	0.0000 u	> 100.00	7.2668
	R2408466-001SD 3X	Se (196.026 nm)	1.1663 o	0.59	914.4324
	R2408466-001SD 3X	Si (252.851 nm)	1.0737	0.53	6894.8552
	R2408466-001SD 3X	Sn (189.925 nm)	0.0059	10.13	18.5181
	R2408466-001SD 3X	Sr (216.596 nm)	0.1016	0.35	1958.1094
	R2408466-001SD 3X	Ti (336.122 nm)	0.0070	25.49	1135.4231
	R2408466-001SD 3X	Tl (190.794 nm)	0.0261	15.37	23.4011
	R2408466-001SD 3X	V (292.401 nm)	0.0081	0.99	309.2192
	R2408466-001SD 3X	Y (360.074 nm)	0.83	0.59	426384.05
	R2408466-001SD 3X	Y_R (360.074 nm)	0.83	0.58	426859.16
	R2408466-001SD 3X	Zn (213.857 nm)	17.6114 o	0.58	1045025.3377
9/10/2024 01:05:46	R2408466-001A 3X	Ag (328.068 nm)	0.2714	0.19	15111.1574
	R2408466-001A 3X	Al (237.312 nm)	0.7836	0.43	1980.2568
	R2408466-001A 3X	As (188.980 nm)	1.1946	0.49	1914.0569
	R2408466-001A 3X	B (249.772 nm)	0.2182	0.20	9168.9710
	R2408466-001A 3X	Ba (230.424 nm)	2.3180	0.48	140706.4387
	R2408466-001A 3X	Be (313.107 nm)	0.0001	10.38	103.9805
	R2408466-001A 3X	Ca (317.933 nm)	42.3869	0.24	1315049.7021
	R2408466-001A 3X	Cd (214.439 nm)	0.5394	0.29	32376.1167
	R2408466-001A 3X	Co (230.786 nm)	0.0116	1.65	237.6778
	R2408466-001A 3X	Cr (267.716 nm)	0.5183	0.22	30162.2337
	R2408466-001A 3X	Cu (327.395 nm)	1.1045	0.56	49277.2821
	R2408466-001A 3X	Fe (234.350 nm)	68.5917 o	0.25	1568251.7449
	R2408466-001A 3X	K (766.491 nm)	6.0661	2.10	7815.2603
	R2408466-001A 3X	Mg (279.078 nm)	10.0167	0.27	40448.6000
	R2408466-001A 3X	Mn (257.610 nm)	0.4814	0.30	167163.6180
	R2408466-001A 3X	Mo (202.032 nm)	0.0014	33.31	21.8895

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408466-001A 3X	Na (588.995 nm)	1015.4003 o	0.68	18570536.0100
	R2408466-001A 3X	Ni (230.299 nm)	1.1054	0.18	14052.8195
	R2408466-001A 3X	Pb (220.353 nm)	0.5890	0.51	2970.6079
	R2408466-001A 3X	Sb (217.582 nm)	-0.0016 u	22.34	3.6260
	R2408466-001A 3X	Se (196.026 nm)	1.1946 o	0.45	936.5900
	R2408466-001A 3X	Si (252.851 nm)	1.0325	0.59	6632.1053
	R2408466-001A 3X	Sn (189.925 nm)	0.0052	26.11	16.5869
	R2408466-001A 3X	Sr (216.596 nm)	0.0968	0.70	1864.2263
	R2408466-001A 3X	Ti (336.122 nm)	0.0042	22.06	703.9331
	R2408466-001A 3X	Tl (190.794 nm)	0.0127	9.10	10.4822
	R2408466-001A 3X	V (292.401 nm)	0.0075	1.96	289.7945
	R2408466-001A 3X	Y (360.074 nm)	0.85	0.60	435978.99
	R2408466-001A 3X	Y_R (360.074 nm)	0.85	0.60	436429.31
	R2408466-001A 3X	Zn (213.857 nm)	16.9460 o	0.34	1005545.2226
9/10/2024 01:09:02	R2408466-001L 15X	Ag (328.068 nm)	-0.0003 u	29.34	-127.2925
	R2408466-001L 15X	Al (237.312 nm)	0.1589	0.46	390.0738
	R2408466-001L 15X	As (188.980 nm)	0.0151	5.96	22.8345
	R2408466-001L 15X	B (249.772 nm)	0.0445	0.48	1901.0076
	R2408466-001L 15X	Ba (230.424 nm)	0.0697	0.29	4236.6260
	R2408466-001L 15X	Be (313.107 nm)	0.0000	23.20	4.5067
	R2408466-001L 15X	Ca (317.933 nm)	8.7677	0.24	272902.0818
	R2408466-001L 15X	Cd (214.439 nm)	0.0007	7.79	54.5021
	R2408466-001L 15X	Co (230.786 nm)	0.0020	15.57	46.1918
	R2408466-001L 15X	Cr (267.716 nm)	0.0008	0.76	49.3785
	R2408466-001L 15X	Cu (327.395 nm)	0.0045	2.83	63.6384
	R2408466-001L 15X	Fe (234.350 nm)	14.4984 o	0.32	331526.0248
	R2408466-001L 15X	K (766.491 nm)	0.9842	2.20	1577.4799
	R2408466-001L 15X	Mg (279.078 nm)	2.1253	0.25	8583.3123
	R2408466-001L 15X	Mn (257.610 nm)	0.0992	0.30	34458.9692
	R2408466-001L 15X	Mo (202.032 nm)	0.0005	37.18	11.8287
	R2408466-001L 15X	Na (588.995 nm)	249.7581 o	0.29	4560031.2088
	R2408466-001L 15X	Ni (230.299 nm)	0.0203	1.54	260.6068
	R2408466-001L 15X	Pb (220.353 nm)	0.0153	1.74	78.6935
	R2408466-001L 15X	Sb (217.582 nm)	-0.0007 u	> 100.00	5.4927
	R2408466-001L 15X	Se (196.026 nm)	-0.0031 u	26.92	-0.5343
	R2408466-001L 15X	Si (252.851 nm)	0.2283	0.53	1505.9092
	R2408466-001L 15X	Sn (189.925 nm)	0.0018	31.04	7.7427
	R2408466-001L 15X	Sr (216.596 nm)	0.0200	0.50	390.0471
	R2408466-001L 15X	Ti (336.122 nm)	0.0014	28.04	279.2664
	R2408466-001L 15X	Tl (190.794 nm)	0.0030	47.38	1.2114
	R2408466-001L 15X	V (292.401 nm)	0.0018	10.37	81.3676
	R2408466-001L 15X	Y (360.074 nm)	0.96	0.61	493982.14
	R2408466-001L 15X	Y_R (360.074 nm)	0.96	0.61	494458.38
	R2408466-001L 15X	Zn (213.857 nm)	3.3481 o	0.32	198682.7296
9/10/2024 01:12:17	R2408251-001 30X	Ag (328.068 nm)	-0.0002 u	51.62	-124.2624
	R2408251-001 30X	Al (237.312 nm)	0.0256	4.68	50.6595
	R2408251-001 30X	As (188.980 nm)	0.0022	63.61	2.2437
	R2408251-001 30X	B (249.772 nm)	0.0081	1.61	380.1994
	R2408251-001 30X	Ba (230.424 nm)	0.0057	0.82	350.1386
	R2408251-001 30X	Be (313.107 nm)	0.0000 u	> 100.00	-14.8631
	R2408251-001 30X	Ca (317.933 nm)	8.8591	0.07	275733.0617
	R2408251-001 30X	Cd (214.439 nm)	0.0001	50.24	15.6132
	R2408251-001 30X	Co (230.786 nm)	0.0004	66.17	12.0819
	R2408251-001 30X	Cr (267.716 nm)	0.0005	5.76	33.0030
	R2408251-001 30X	Cu (327.395 nm)	0.0049	3.41	80.0483
	R2408251-001 30X	Fe (234.350 nm)	0.4612	0.91	10595.9665
	R2408251-001 30X	K (766.491 nm)	0.3722	8.53	826.3033

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408251-001 30X	Mg (279.078 nm)	0.9230	0.29	3728.3286
	R2408251-001 30X	Mn (257.610 nm)	0.0962	0.16	33400.4872
	R2408251-001 30X	Mo (202.032 nm)	0.0005	12.27	11.5876
	R2408251-001 30X	Na (588.995 nm)	42.8891	0.06	774530.4767
	R2408251-001 30X	Ni (230.299 nm)	0.0026	18.95	35.9688
	R2408251-001 30X	Pb (220.353 nm)	0.0007	73.16	4.9271
	R2408251-001 30X	Sb (217.582 nm)	-0.0008 u	73.54	5.4168
	R2408251-001 30X	Se (196.026 nm)	-0.0013 u	> 100.00	0.8184
	R2408251-001 30X	Si (252.851 nm)	0.1251	0.30	847.6866
	R2408251-001 30X	Sn (189.925 nm)	0.0000 u	> 100.00	3.0657
	R2408251-001 30X	Sr (216.596 nm)	0.0348	0.87	674.2653
	R2408251-001 30X	Ti (336.122 nm)	0.0011	23.17	233.1068
	R2408251-001 30X	Tl (190.794 nm)	0.0031	76.89	1.3403
	R2408251-001 30X	V (292.401 nm)	0.0000 u	> 100.00	14.8261
	R2408251-001 30X	Y (360.074 nm)	1.00	0.47	517089.17
	R2408251-001 30X	Y_R (360.074 nm)	1.00	0.47	517546.96
	R2408251-001 30X	Zn (213.857 nm)	0.1517	0.06	9017.1493
9/10/2024 01:15:32	R2408366-001 10X	Ag (328.068 nm)	-0.0001 u	56.59	-118.0399
	R2408366-001 10X	Al (237.312 nm)	0.0597	2.48	137.4541
	R2408366-001 10X	As (188.980 nm)	0.0016 u	> 100.00	1.1674
	R2408366-001 10X	B (249.772 nm)	0.0144	0.50	645.3162
	R2408366-001 10X	Ba (230.424 nm)	0.0269	0.32	1636.4143
	R2408366-001 10X	Be (313.107 nm)	0.0000	13.63	37.9991
	R2408366-001 10X	Ca (317.933 nm)	97.5265 o	0.04	3024303.1867
	R2408366-001 10X	Cd (214.439 nm)	0.0003	12.25	27.0223
	R2408366-001 10X	Co (230.786 nm)	0.0017	22.56	39.0879
	R2408366-001 10X	Cr (267.716 nm)	0.0003	23.34	21.2551
	R2408366-001 10X	Cu (327.395 nm)	0.0004	18.60	-122.1029
	R2408366-001 10X	Fe (234.350 nm)	0.3424	0.65	7878.9596
	R2408366-001 10X	K (766.491 nm)	0.3400	7.63	786.6733
	R2408366-001 10X	Mg (279.078 nm)	46.6376	0.07	188324.7630
	R2408366-001 10X	Mn (257.610 nm)	0.3199	0.08	111070.5313
	R2408366-001 10X	Mo (202.032 nm)	0.0004	57.27	10.5287
	R2408366-001 10X	Na (588.995 nm)	5.7395	0.26	94728.5819
	R2408366-001 10X	Ni (230.299 nm)	0.0029	21.40	39.8592
	R2408366-001 10X	Pb (220.353 nm)	0.0028	17.22	15.6609
	R2408366-001 10X	Sb (217.582 nm)	-0.0015 u	52.66	3.8808
	R2408366-001 10X	Se (196.026 nm)	-0.0032 u	7.14	-0.6084
	R2408366-001 10X	Si (252.851 nm)	0.2945	0.14	1927.5309
	R2408366-001 10X	Sn (189.925 nm)	0.0001 u	> 100.00	3.3966
	R2408366-001 10X	Sr (216.596 nm)	0.0901	0.47	1735.5934
	R2408366-001 10X	Ti (336.122 nm)	0.0007	31.64	172.1400
	R2408366-001 10X	Tl (190.794 nm)	0.0039	49.83	2.1333
	R2408366-001 10X	V (292.401 nm)	0.0003	24.24	25.9691
	R2408366-001 10X	Y (360.074 nm)	0.98	0.32	505545.90
	R2408366-001 10X	Y_R (360.074 nm)	0.98	0.32	506069.55
	R2408366-001 10X	Zn (213.857 nm)	0.0816	0.09	4855.4034
9/10/2024 01:18:48	R2408414-001 30X	Ag (328.068 nm)	-0.0004 u	41.98	-134.5669
	R2408414-001 30X	Al (237.312 nm)	0.0048	30.94	-2.1855
	R2408414-001 30X	As (188.980 nm)	0.0010 u	> 100.00	0.2002
	R2408414-001 30X	B (249.772 nm)	0.0103	1.65	472.4916
	R2408414-001 30X	Ba (230.424 nm)	0.0430	0.32	2616.8237
	R2408414-001 30X	Be (313.107 nm)	0.0000 u	49.36	-15.9676
	R2408414-001 30X	Ca (317.933 nm)	6.3785	0.25	198838.9301
	R2408414-001 30X	Cd (214.439 nm)	0.0001	20.67	13.3731
	R2408414-001 30X	Co (230.786 nm)	-0.0002 u	57.27	0.4398
	R2408414-001 30X	Cr (267.716 nm)	0.0001	63.09	10.3116

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408414-001 30X	Cu (327.395 nm)	0.0040	3.51	38.7213
	R2408414-001 30X	Fe (234.350 nm)	0.0172	9.16	443.3716
	R2408414-001 30X	K (766.491 nm)	0.5196	2.98	1007.1735
	R2408414-001 30X	Mg (279.078 nm)	0.9583	0.15	3870.6349
	R2408414-001 30X	Mn (257.610 nm)	0.0995	0.24	34562.8855
	R2408414-001 30X	Mo (202.032 nm)	0.0000 u	> 100.00	7.2393
	R2408414-001 30X	Na (588.995 nm)	45.8941	0.10	829519.4048
	R2408414-001 30X	Ni (230.299 nm)	0.0015	15.11	22.1747
	R2408414-001 30X	Pb (220.353 nm)	0.0008	56.06	5.2332
	R2408414-001 30X	Sb (217.582 nm)	-0.0001 u	> 100.00	6.9097
	R2408414-001 30X	Se (196.026 nm)	-0.0015 u	> 100.00	0.7117
	R2408414-001 30X	Si (252.851 nm)	0.0949	0.75	655.5823
	R2408414-001 30X	Sn (189.925 nm)	0.0000 u	> 100.00	3.0249
	R2408414-001 30X	Sr (216.596 nm)	0.0268	0.60	520.6802
	R2408414-001 30X	Ti (336.122 nm)	0.0004	52.12	136.8930
	R2408414-001 30X	Tl (190.794 nm)	0.0046	32.12	2.7208
	R2408414-001 30X	V (292.401 nm)	0.0000 u	> 100.00	15.1296
	R2408414-001 30X	Y (360.074 nm)	0.99	0.09	512272.64
	R2408414-001 30X	Y_R (360.074 nm)	0.99	0.09	512776.14
	R2408414-001 30X	Zn (213.857 nm)	0.0972	0.39	5779.0939
9/10/2024 01:22:02	Continuing Calibration Verification1	Ag (328.068 nm)	0.4908	0.13	27422.6560
	Continuing Calibration Verification1	Al (237.312 nm)	9.2538	0.17	23540.8185
	Continuing Calibration Verification1	As (188.980 nm)	0.9800	0.09	1570.0748
	Continuing Calibration Verification1	B (249.772 nm)	2.2554	0.14	94373.5953
	Continuing Calibration Verification1	Ba (230.424 nm)	9.5525	0.58	579844.5020
	Continuing Calibration Verification1	Be (313.107 nm)	0.2432	0.11	289407.1020
	Continuing Calibration Verification1	Ca (317.933 nm)	25.7009	0.15	797806.9598
	Continuing Calibration Verification1	Cd (214.439 nm)	0.5069	0.08	30428.7960
	Continuing Calibration Verification1	Co (230.786 nm)	2.4721	0.17	49784.9380
	Continuing Calibration Verification1	Cr (267.716 nm)	0.5084	0.08	29587.3748
	Continuing Calibration Verification1	Cu (327.395 nm)	1.1661	0.11	52035.4889
	Continuing Calibration Verification1	Fe (234.350 nm)	4.8672	0.08	111327.6526
	Continuing Calibration Verification1	K (766.491 nm)	22.7456	0.10	28288.5474
	Continuing Calibration Verification1	Mg (279.078 nm)	25.9561	0.08	104812.2619
	Continuing Calibration Verification1	Mn (257.610 nm)	0.7188	0.09	249591.1049
	Continuing Calibration Verification1	Mo (202.032 nm)	2.4964	0.35	26770.6972
	Continuing Calibration Verification1	Na (588.995 nm)	22.5081	0.33	401578.1116
	Continuing Calibration Verification1	Ni (230.299 nm)	1.9780	0.03	25143.1315
	Continuing Calibration Verification1	Pb (220.353 nm)	0.4994	0.30	2518.9509
	Continuing Calibration Verification1	Sb (217.582 nm)	4.8105	0.08	11038.7487
	Continuing Calibration Verification1	Se (196.026 nm)	0.4775	0.85	375.4932
	Continuing Calibration Verification1	Si (252.851 nm)	9.5026	0.59	60623.8822
	Continuing Calibration Verification1	Sn (189.925 nm)	5.0453	0.03	13191.0828
	Continuing Calibration Verification1	Sr (216.596 nm)	2.5185	0.28	48381.1309
	Continuing Calibration Verification1	Ti (336.122 nm)	2.4718	0.20	378091.6784
	Continuing Calibration Verification1	Tl (190.794 nm)	0.8075 Q	0.67	772.1241 Q
	Continuing Calibration Verification1	V (292.401 nm)	2.4909	0.12	91202.7113
	Continuing Calibration Verification1	Y (360.074 nm)	0.97	0.41	499238.12
	Continuing Calibration Verification1	Y_R (360.074 nm)	0.97	0.40	499691.30
	Continuing Calibration Verification1	Zn (213.857 nm)	0.9776	0.16	58024.4135
9/10/2024 01:25:17	Continuing Calibration Blank1	Ag (328.068 nm)	-0.0002 u	> 100.00	-122.1027
	Continuing Calibration Blank1	Al (237.312 nm)	0.0036	51.94	-5.3938
	Continuing Calibration Blank1	As (188.980 nm)	0.0014	68.13	0.9007
	Continuing Calibration Blank1	B (249.772 nm)	0.0037	31.44	195.1622
	Continuing Calibration Blank1	Ba (230.424 nm)	0.0014	4.37	93.7674
	Continuing Calibration Blank1	Be (313.107 nm)	0.0000	31.57	-2.4115
	Continuing Calibration Blank1	Ca (317.933 nm)	0.0099	3.78	1421.6275

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank1	Cd (214.439 nm)	0.0001	34.91	16.2186
	Continuing Calibration Blank1	Co (230.786 nm)	0.0003	66.07	10.2608
	Continuing Calibration Blank1	Cr (267.716 nm)	0.0001	> 100.00	9.4206
	Continuing Calibration Blank1	Cu (327.395 nm)	-0.0001 u	85.49	-143.8698
	Continuing Calibration Blank1	Fe (234.350 nm)	0.0085	19.04	244.2372
	Continuing Calibration Blank1	K (766.491 nm)	0.0760	31.44	462.6791
	Continuing Calibration Blank1	Mg (279.078 nm)	0.0030	23.89	13.1928
	Continuing Calibration Blank1	Mn (257.610 nm)	0.0002	4.88	66.9307
	Continuing Calibration Blank1	Mo (202.032 nm)	0.0093	15.10	106.4449
	Continuing Calibration Blank1	Na (588.995 nm)	0.6250	0.09	1137.4703
	Continuing Calibration Blank1	Ni (230.299 nm)	0.0006	53.60	11.1901
	Continuing Calibration Blank1	Pb (220.353 nm)	0.0000 u	> 100.00	1.1977
	Continuing Calibration Blank1	Sb (217.582 nm)	0.0036	47.30	15.4504
	Continuing Calibration Blank1	Se (196.026 nm)	-0.0013 u	9.16	0.8540
	Continuing Calibration Blank1	Si (252.851 nm)	0.0069	18.89	94.3432
	Continuing Calibration Blank1	Sn (189.925 nm)	0.0031	20.65	11.1966
	Continuing Calibration Blank1	Sr (216.596 nm)	0.0004	15.79	12.9656
	Continuing Calibration Blank1	Ti (336.122 nm)	0.0098	24.02	1574.0571
	Continuing Calibration Blank1	Tl (190.794 nm)	0.0199 Z	9.98	17.4631 Z
	Continuing Calibration Blank1	V (292.401 nm)	0.0004	35.67	29.0035
	Continuing Calibration Blank1	Y (360.074 nm)	1.02	0.02	524509.94
	Continuing Calibration Blank1	Y_R (360.074 nm)	1.02	0.02	524991.01
	Continuing Calibration Blank1	Zn (213.857 nm)	0.0026	1.73	167.6264

RUN CONTINUES

Created Date/Time	9/9/2024 14:53:12	Software Version	7.6.1.12212
Instrument Name	MY2309CQ22	Firmware Version	5590
File Path	C:\Agilent\ICP Expert\My Results\2024\090924A-ICP7.esws		
Notes			

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
9/10/2024 15:04:30	Continuing Calibration Verification	Ag (328.068 nm)	0.5266	0.13	29431.9061
	Continuing Calibration Verification	Al (237.312 nm)	9.5866	0.15	24387.7256
	Continuing Calibration Verification	As (188.980 nm)	1.0628	0.57	1702.7915
	Continuing Calibration Verification	B (249.772 nm)	2.3815	0.10	99643.8790
	Continuing Calibration Verification	Ba (230.424 nm)	9.7443	0.06	591486.9675
	Continuing Calibration Verification	Be (313.107 nm)	0.2555	0.15	304059.7908
	Continuing Calibration Verification	Ca (317.933 nm)	26.2698	0.10	815443.0482
	Continuing Calibration Verification	Cd (214.439 nm)	0.5253	0.20	31531.0877
	Continuing Calibration Verification	Co (230.786 nm)	2.5605	0.34	51565.0106
	Continuing Calibration Verification	Cr (267.716 nm)	0.5316	0.17	30937.9540
	Continuing Calibration Verification	Cu (327.395 nm)	1.2784	0.10	57059.3289
	Continuing Calibration Verification	Fe (234.350 nm)	5.0348	0.11	115161.2794
	Continuing Calibration Verification	K (766.491 nm)	25.4219	0.30	31573.5862
	Continuing Calibration Verification	Mg (279.078 nm)	27.4419	0.03	110812.0189
	Continuing Calibration Verification	Mn (257.610 nm)	0.7468	0.08	259313.6052
	Continuing Calibration Verification	Mo (202.032 nm)	2.5498	0.43	27343.0272
	Continuing Calibration Verification	Na (588.995 nm)	24.8509	0.22	444448.5948
	Continuing Calibration Verification	Ni (230.299 nm)	2.0527	0.18	26093.2692
	Continuing Calibration Verification	Pb (220.353 nm)	0.5173	0.12	2608.9470
	Continuing Calibration Verification	Sb (217.582 nm)	5.0885	0.11	11676.2798
	Continuing Calibration Verification	Se (196.026 nm)	0.5226	0.58	410.7454
	Continuing Calibration Verification	Si (252.851 nm)	10.2271	0.88	65242.1932
	Continuing Calibration Verification	Sn (189.925 nm)	5.2937	0.08	13840.3471
	Continuing Calibration Verification	Sr (216.596 nm)	2.5433	0.28	48856.8911
	Continuing Calibration Verification	Ti (336.122 nm)	2.5696	0.13	393047.2965
	Continuing Calibration Verification	Tl (190.794 nm)	0.8818 Q	0.26	843.3133 Q
	Continuing Calibration Verification	V (292.401 nm)	2.5980	0.18	95122.2954
	Continuing Calibration Verification	Y (360.074 nm)	0.91	0.38	471044.27
	Continuing Calibration Verification	Y_R (360.074 nm)	0.91	0.38	471837.79
	Continuing Calibration Verification	Zn (213.857 nm)	1.0460	0.22	62082.5547
9/10/2024 15:07:44	Continuing Calibration Blank	Ag (328.068 nm)	-0.0003 u	69.05	-129.3569
	Continuing Calibration Blank	Al (237.312 nm)	0.0028	33.26	-7.3006
	Continuing Calibration Blank	As (188.980 nm)	0.0022	93.78	2.2007
	Continuing Calibration Blank	B (249.772 nm)	0.0029	12.09	164.5922
	Continuing Calibration Blank	Ba (230.424 nm)	0.0013	2.21	87.5798
	Continuing Calibration Blank	Be (313.107 nm)	0.0000 u	> 100.00	-10.0558
	Continuing Calibration Blank	Ca (317.933 nm)	0.0129	0.68	1514.7161
	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 u	> 100.00	14.9384
	Continuing Calibration Blank	Co (230.786 nm)	0.0001 u	> 100.00	7.0804
	Continuing Calibration Blank	Cr (267.716 nm)	0.0001	> 100.00	8.3603
	Continuing Calibration Blank	Cu (327.395 nm)	0.0001 u	> 100.00	-136.5872
	Continuing Calibration Blank	Fe (234.350 nm)	0.0070	18.26	211.1339
	Continuing Calibration Blank	K (766.491 nm)	0.0634	30.32	447.2617
	Continuing Calibration Blank	Mg (279.078 nm)	0.0033	29.76	14.4218
	Continuing Calibration Blank	Mn (257.610 nm)	0.0002	5.25	66.1673
	Continuing Calibration Blank	Mo (202.032 nm)	0.0094	16.53	107.1162
	Continuing Calibration Blank	Na (588.995 nm)	0.1822	3.75	-6963.8863
	Continuing Calibration Blank	Ni (230.299 nm)	0.0004	> 100.00	7.6096
	Continuing Calibration Blank	Pb (220.353 nm)	0.0003 u	> 100.00	2.9459
	Continuing Calibration Blank	Sb (217.582 nm)	0.0050	35.23	18.6344
	Continuing Calibration Blank	Se (196.026 nm)	-0.0007 u	> 100.00	1.3448
	Continuing Calibration Blank	Si (252.851 nm)	0.0086	19.14	105.4507

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Sn (189.925 nm)	0.0019	37.28	7.9824
	Continuing Calibration Blank	Sr (216.596 nm)	0.0005	30.92	14.8542
	Continuing Calibration Blank	Ti (336.122 nm)	0.0089	24.92	1423.7213
	Continuing Calibration Blank	Tl (190.794 nm)	0.0160 Z	10.61	13.6675 Z
	Continuing Calibration Blank	V (292.401 nm)	0.0002	47.94	22.4030
	Continuing Calibration Blank	Y (360.074 nm)	0.98	0.36	504919.56
	Continuing Calibration Blank	Y_R (360.074 nm)	0.98	0.36	505656.70
	Continuing Calibration Blank	Zn (213.857 nm)	0.0030	1.18	192.5994
9/10/2024 15:10:59	R2408466-001 10X	Ag (328.068 nm)	-0.0003 u	53.41	-126.8869
	R2408466-001 10X	Al (237.312 nm)	0.0817	2.55	193.5645
	R2408466-001 10X	As (188.980 nm)	0.0067	23.63	9.4151
	R2408466-001 10X	B (249.772 nm)	0.0230	0.53	1005.7185
	R2408466-001 10X	Ba (230.424 nm)	0.0346	0.34	2107.6828
	R2408466-001 10X	Be (313.107 nm)	0.0000 u	> 100.00	-18.3385
	R2408466-001 10X	Ca (317.933 nm)	4.3309	0.16	135364.9897
	R2408466-001 10X	Cd (214.439 nm)	0.0003	7.64	28.6304
	R2408466-001 10X	Co (230.786 nm)	0.0009	35.91	22.3678
	R2408466-001 10X	Cr (267.716 nm)	0.0004	11.59	27.6840
	R2408466-001 10X	Cu (327.395 nm)	0.0022	6.93	-42.6479
	R2408466-001 10X	Fe (234.350 nm)	7.2011	0.20	164687.3433
	R2408466-001 10X	K (766.491 nm)	0.4300	6.09	897.2605
	R2408466-001 10X	Mg (279.078 nm)	1.0705	0.64	4323.8535
	R2408466-001 10X	Mn (257.610 nm)	0.0497	0.18	17266.0808
	R2408466-001 10X	Mo (202.032 nm)	0.0019	21.92	27.0993
	R2408466-001 10X	Na (588.995 nm)	139.1755 o	0.70	2536478.1022
	R2408466-001 10X	Ni (230.299 nm)	0.0100	3.04	129.6484
	R2408466-001 10X	Pb (220.353 nm)	0.0073	5.99	38.2011
	R2408466-001 10X	Sb (217.582 nm)	-0.0001 u	> 100.00	6.9101
	R2408466-001 10X	Se (196.026 nm)	-0.0029 u	71.09	-0.4346
	R2408466-001 10X	Si (252.851 nm)	0.1383	1.58	932.0130
	R2408466-001 10X	Sn (189.925 nm)	0.0008	94.38	5.0164
	R2408466-001 10X	Sr (216.596 nm)	0.0099	0.56	195.8055
	R2408466-001 10X	Ti (336.122 nm)	0.0031	30.85	547.6949
	R2408466-001 10X	Tl (190.794 nm)	0.0098	19.79	7.7414
	R2408466-001 10X	V (292.401 nm)	0.0010	22.99	51.6709
	R2408466-001 10X	Y (360.074 nm)	0.93	0.03	479203.91
	R2408466-001 10X	Y_R (360.074 nm)	0.93	0.03	479923.85
	R2408466-001 10X	Zn (213.857 nm)	1.6806	0.21	99736.0790
9/10/2024 15:14:14	R2408466-001S 10X	Ag (328.068 nm)	0.0262	0.24	1355.4453
	R2408466-001S 10X	Al (237.312 nm)	0.0853	2.05	202.6540
	R2408466-001S 10X	As (188.980 nm)	0.1136	2.50	180.7562
	R2408466-001S 10X	B (249.772 nm)	0.0250	0.78	1088.8273
	R2408466-001S 10X	Ba (230.424 nm)	0.2304	0.29	13992.3592
	R2408466-001S 10X	Be (313.107 nm)	0.0000 u	> 100.00	-11.1808
	R2408466-001S 10X	Ca (317.933 nm)	4.4681	0.25	139617.8746
	R2408466-001S 10X	Cd (214.439 nm)	0.0536	0.19	3226.5085
	R2408466-001S 10X	Co (230.786 nm)	0.0013	3.53	30.2033
	R2408466-001S 10X	Cr (267.716 nm)	0.0518	0.29	3021.0662
	R2408466-001S 10X	Cu (327.395 nm)	0.1074	0.57	4665.6854
	R2408466-001S 10X	Fe (234.350 nm)	7.4536	0.25	170460.1917
	R2408466-001S 10X	K (766.491 nm)	0.4498	5.13	921.5040
	R2408466-001S 10X	Mg (279.078 nm)	1.0997	0.34	4441.6741
	R2408466-001S 10X	Mn (257.610 nm)	0.0512	0.28	17800.2615
	R2408466-001S 10X	Mo (202.032 nm)	0.0009	16.21	15.8884
	R2408466-001S 10X	Na (588.995 nm)	142.6194 o	0.84	2599496.9006
	R2408466-001S 10X	Ni (230.299 nm)	0.1124	0.56	1431.7047
	R2408466-001S 10X	Pb (220.353 nm)	0.0595	0.78	301.4921

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408466-001S 10X	Sb (217.582 nm)	-0.0007 u	37.15	5.5665
	R2408466-001S 10X	Se (196.026 nm)	0.1192	1.59	95.1117
	R2408466-001S 10X	Si (252.851 nm)	0.1569	1.87	1050.4050
	R2408466-001S 10X	Sn (189.925 nm)	0.0009	71.43	5.4861
	R2408466-001S 10X	Sr (216.596 nm)	0.0100	1.86	198.7220
	R2408466-001S 10X	Ti (336.122 nm)	0.0018	37.22	341.2057
	R2408466-001S 10X	Tl (190.794 nm)	0.0077	2.40	5.7774
	R2408466-001S 10X	V (292.401 nm)	0.0011	6.55	55.1061
	R2408466-001S 10X	Y (360.074 nm)	0.93	0.16	481184.46
	R2408466-001S 10X	Y_R (360.074 nm)	0.93	0.16	481838.48
	R2408466-001S 10X	Zn (213.857 nm)	1.8411	0.48	109262.8437
9/10/2024 15:17:30	R2408466-001SD 10X	Ag (328.068 nm)	0.0265	0.87	1372.7825
	R2408466-001SD 10X	Al (237.312 nm)	0.0851	2.30	202.2242
	R2408466-001SD 10X	As (188.980 nm)	0.1165	0.67	185.4578
	R2408466-001SD 10X	B (249.772 nm)	0.0240	0.07	1044.4311
	R2408466-001SD 10X	Ba (230.424 nm)	0.2333	0.30	14168.1022
	R2408466-001SD 10X	Be (313.107 nm)	0.0000 u	> 100.00	-11.3602
	R2408466-001SD 10X	Ca (317.933 nm)	4.5207	0.37	141250.0329
	R2408466-001SD 10X	Cd (214.439 nm)	0.0541	0.17	3257.1117
	R2408466-001SD 10X	Co (230.786 nm)	0.0011	28.93	27.9275
	R2408466-001SD 10X	Cr (267.716 nm)	0.0522	0.25	3041.8801
	R2408466-001SD 10X	Cu (327.395 nm)	0.1081	0.38	4698.3287
	R2408466-001SD 10X	Fe (234.350 nm)	7.5288	0.27	172180.5870
	R2408466-001SD 10X	K (766.491 nm)	0.4198	2.52	884.6938
	R2408466-001SD 10X	Mg (279.078 nm)	1.1089	0.25	4478.9105
	R2408466-001SD 10X	Mn (257.610 nm)	0.0517	0.36	17975.2925
	R2408466-001SD 10X	Mo (202.032 nm)	0.0006	59.02	12.9071
	R2408466-001SD 10X	Na (588.995 nm)	143.4269 o	0.70	2614272.9068
	R2408466-001SD 10X	Ni (230.299 nm)	0.1132	0.43	1441.6756
	R2408466-001SD 10X	Pb (220.353 nm)	0.0607	0.36	307.4289
	R2408466-001SD 10X	Sb (217.582 nm)	-0.0014 u	54.36	3.9384
	R2408466-001SD 10X	Se (196.026 nm)	0.1199	1.75	95.6902
	R2408466-001SD 10X	Si (252.851 nm)	0.1518	0.20	1017.9984
	R2408466-001SD 10X	Sn (189.925 nm)	0.0011	38.82	5.9546
	R2408466-001SD 10X	Sr (216.596 nm)	0.0101	2.12	199.5947
	R2408466-001SD 10X	Ti (336.122 nm)	0.0013	33.61	271.4751
	R2408466-001SD 10X	Tl (190.794 nm)	0.0077	31.54	5.7379
	R2408466-001SD 10X	V (292.401 nm)	0.0007	17.74	41.2737
	R2408466-001SD 10X	Y (360.074 nm)	0.93	0.17	481280.34
	R2408466-001SD 10X	Y_R (360.074 nm)	0.93	0.16	481861.89
	R2408466-001SD 10X	Zn (213.857 nm)	1.8588	0.52	110310.7164
9/10/2024 15:20:45	R2408466-001A 10X	Ag (328.068 nm)	0.2544	0.07	14162.3048
	R2408466-001A 10X	Al (237.312 nm)	0.0809	2.45	191.5062
	R2408466-001A 10X	As (188.980 nm)	1.0561	0.80	1691.9948
	R2408466-001A 10X	B (249.772 nm)	0.0265	0.72	1151.2767
	R2408466-001A 10X	Ba (230.424 nm)	1.9133	0.26	116140.9616
	R2408466-001A 10X	Be (313.107 nm)	0.0000	81.37	-11.3339
	R2408466-001A 10X	Ca (317.933 nm)	4.4321	0.20	138502.3585
	R2408466-001A 10X	Cd (214.439 nm)	0.5147	0.29	30894.5245
	R2408466-001A 10X	Co (230.786 nm)	0.0011	6.30	26.7500
	R2408466-001A 10X	Cr (267.716 nm)	0.4967	0.23	28909.8964
	R2408466-001A 10X	Cu (327.395 nm)	1.0098	0.10	45042.9639
	R2408466-001A 10X	Fe (234.350 nm)	7.1096	0.28	162596.7424
	R2408466-001A 10X	K (766.491 nm)	0.4142	4.57	877.7784
	R2408466-001A 10X	Mg (279.078 nm)	1.0434	0.24	4214.4605
	R2408466-001A 10X	Mn (257.610 nm)	0.0487	0.09	16930.9359
	R2408466-001A 10X	Mo (202.032 nm)	0.0003	54.60	9.8538

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408466-001A 10X	Na (588.995 nm)	135.7516 o	0.13	2473824.0161
	R2408466-001A 10X	Ni (230.299 nm)	0.9949	0.24	12647.8858
	R2408466-001A 10X	Pb (220.353 nm)	0.5131	0.39	2588.0644
	R2408466-001A 10X	Sb (217.582 nm)	0.0012	92.18	9.8540
	R2408466-001A 10X	Se (196.026 nm)	1.1397 o	0.10	893.6019
	R2408466-001A 10X	Si (252.851 nm)	0.1971	1.44	1306.8968
	R2408466-001A 10X	Sn (189.925 nm)	0.0001 u	> 100.00	3.3324
	R2408466-001A 10X	Sr (216.596 nm)	0.0093	0.82	184.1720
	R2408466-001A 10X	Ti (336.122 nm)	0.0010	32.34	225.5611
	R2408466-001A 10X	Tl (190.794 nm)	0.0062	37.68	4.3101
	R2408466-001A 10X	V (292.401 nm)	0.0000 u	> 100.00	14.8314
	R2408466-001A 10X	Y (360.074 nm)	0.94	0.12	484253.29
	R2408466-001A 10X	Y_R (360.074 nm)	0.94	0.12	484802.63
	R2408466-001A 10X	Zn (213.857 nm)	2.7064 o	0.28	160603.1991
9/10/2024 15:24:01	R2408466-001L 50X	Ag (328.068 nm)	-0.0003 u	74.32	-130.4168
	R2408466-001L 50X	Al (237.312 nm)	0.0192	7.76	34.3878
	R2408466-001L 50X	As (188.980 nm)	0.0060	40.56	8.3050
	R2408466-001L 50X	B (249.772 nm)	0.0054	0.31	269.3262
	R2408466-001L 50X	Ba (230.424 nm)	0.0069	0.40	426.0296
	R2408466-001L 50X	Be (313.107 nm)	0.0000	55.13	-11.4132
	R2408466-001L 50X	Ca (317.933 nm)	0.8656	0.47	27945.8967
	R2408466-001L 50X	Cd (214.439 nm)	0.0000	69.00	12.4399
	R2408466-001L 50X	Co (230.786 nm)	0.0000 u	> 100.00	5.0586
	R2408466-001L 50X	Cr (267.716 nm)	0.0001 u	> 100.00	7.7004
	R2408466-001L 50X	Cu (327.395 nm)	0.0005	48.30	-119.4582
	R2408466-001L 50X	Fe (234.350 nm)	1.4309	0.31	32765.4314
	R2408466-001L 50X	K (766.491 nm)	0.1067	19.15	500.3281
	R2408466-001L 50X	Mg (279.078 nm)	0.2108	0.72	852.5300
	R2408466-001L 50X	Mn (257.610 nm)	0.0098	0.26	3424.3161
	R2408466-001L 50X	Mo (202.032 nm)	0.0003	35.08	9.8493
	R2408466-001L 50X	Na (588.995 nm)	27.5439	0.54	493727.9982
	R2408466-001L 50X	Ni (230.299 nm)	0.0021	5.42	29.6470
	R2408466-001L 50X	Pb (220.353 nm)	0.0008	70.44	5.3495
	R2408466-001L 50X	Sb (217.582 nm)	0.0008 u	> 100.00	8.9985
	R2408466-001L 50X	Se (196.026 nm)	0.0019 u	> 100.00	3.3168
	R2408466-001L 50X	Si (252.851 nm)	0.0583	1.13	422.2295
	R2408466-001L 50X	Sn (189.925 nm)	0.0002 u	> 100.00	3.5915
	R2408466-001L 50X	Sr (216.596 nm)	0.0019	2.28	42.3234
	R2408466-001L 50X	Ti (336.122 nm)	0.0006	47.88	162.2344
	R2408466-001L 50X	Tl (190.794 nm)	0.0039	44.79	2.0841
	R2408466-001L 50X	V (292.401 nm)	0.0001	59.98	17.7692
	R2408466-001L 50X	Y (360.074 nm)	0.98	0.18	507321.54
	R2408466-001L 50X	Y_R (360.074 nm)	0.98	0.18	507904.44
	R2408466-001L 50X	Zn (213.857 nm)	0.3281	0.51	19485.5056
9/10/2024 15:27:16	R2408366-001 3X	Ag (328.068 nm)	-0.0002 u	72.72	-123.1343
	R2408366-001 3X	Al (237.312 nm)	0.2231	1.55	553.3170
	R2408366-001 3X	As (188.980 nm)	0.0047	48.44	6.1457
	R2408366-001 3X	B (249.772 nm)	0.0517	0.23	2205.6050
	R2408366-001 3X	Ba (230.424 nm)	0.0900	0.36	5470.7164
	R2408366-001 3X	Be (313.107 nm)	0.0002	1.63	250.7068
	R2408366-001 3X	Ca (317.933 nm)	304.5820 o	0.34	9442741.9271
	R2408366-001 3X	Cd (214.439 nm)	0.0010	5.31	71.9388
	R2408366-001 3X	Co (230.786 nm)	0.0068	1.79	141.4035
	R2408366-001 3X	Cr (267.716 nm)	0.0008	3.08	48.9206
	R2408366-001 3X	Cu (327.395 nm)	0.0019	7.30	-55.4514
	R2408366-001 3X	Fe (234.350 nm)	1.1347	0.42	25993.6264
	R2408366-001 3X	K (766.491 nm)	0.7918	6.06	1341.3105

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	R2408366-001 3X	Mg (279.078 nm)	159.8871 o	0.44	645628.5895
	R2408366-001 3X	Mn (257.610 nm)	1.0815	0.47	375523.6815
	R2408366-001 3X	Mo (202.032 nm)	0.0003 u	> 100.00	10.0370
	R2408366-001 3X	Na (588.995 nm)	18.9795	0.62	337008.3710
	R2408366-001 3X	Ni (230.299 nm)	0.0091	3.24	118.3877
	R2408366-001 3X	Pb (220.353 nm)	0.0090	5.05	46.6421
	R2408366-001 3X	Sb (217.582 nm)	-0.0013 u	67.97	4.2434
	R2408366-001 3X	Se (196.026 nm)	0.0012 u	> 100.00	2.8338
	R2408366-001 3X	Si (252.851 nm)	1.0083	0.47	6477.7072
	R2408366-001 3X	Sn (189.925 nm)	0.0012	20.98	6.1807
	R2408366-001 3X	Sr (216.596 nm)	0.2974	0.55	5718.7655
	R2408366-001 3X	Ti (336.122 nm)	0.0027	12.02	479.1297
	R2408366-001 3X	Tl (190.794 nm)	0.0049	21.28	3.0912
	R2408366-001 3X	V (292.401 nm)	0.0010	25.80	49.9011
	R2408366-001 3X	Y (360.074 nm)	0.91	0.41	468381.68
	R2408366-001 3X	Y_R (360.074 nm)	0.91	0.41	469055.86
	R2408366-001 3X	Zn (213.857 nm)	0.2776	0.56	16484.9533
9/10/2024 15:30:30	Continuing Calibration Verification	Ag (328.068 nm)	0.5148	0.06	28767.7588
	Continuing Calibration Verification	Al (237.312 nm)	9.7109	0.11	24704.1754
	Continuing Calibration Verification	As (188.980 nm)	1.0282	0.21	1647.2809
	Continuing Calibration Verification	B (249.772 nm)	2.3395	0.12	97890.0141
	Continuing Calibration Verification	Ba (230.424 nm)	9.7167	0.80	589811.4771
	Continuing Calibration Verification	Be (313.107 nm)	0.2490	0.10	296283.5039
	Continuing Calibration Verification	Ca (317.933 nm)	25.9950	0.24	806924.7807
	Continuing Calibration Verification	Cd (214.439 nm)	0.5091	0.12	30559.1013
	Continuing Calibration Verification	Co (230.786 nm)	2.5054	0.20	50456.9003
	Continuing Calibration Verification	Cr (267.716 nm)	0.5204	0.09	30288.9278
	Continuing Calibration Verification	Cu (327.395 nm)	1.2468	0.17	55642.7227
	Continuing Calibration Verification	Fe (234.350 nm)	4.9674	0.19	113620.2591
	Continuing Calibration Verification	K (766.491 nm)	24.8721	0.19	30898.7123
	Continuing Calibration Verification	Mg (279.078 nm)	26.4470	0.12	106794.8423
	Continuing Calibration Verification	Mn (257.610 nm)	0.7372	0.14	255979.6643
	Continuing Calibration Verification	Mo (202.032 nm)	2.5395	0.34	27232.8729
	Continuing Calibration Verification	Na (588.995 nm)	24.3785	0.29	435804.6270
	Continuing Calibration Verification	Ni (230.299 nm)	2.0128	0.16	25586.3778
	Continuing Calibration Verification	Pb (220.353 nm)	0.5072	0.17	2558.2551
	Continuing Calibration Verification	Sb (217.582 nm)	5.0045	0.11	11483.6929
	Continuing Calibration Verification	Se (196.026 nm)	0.5017	1.42	394.4256
	Continuing Calibration Verification	Si (252.851 nm)	9.9325	0.80	63364.1815
	Continuing Calibration Verification	Sn (189.925 nm)	5.1365	0.17	13429.2519
	Continuing Calibration Verification	Sr (216.596 nm)	2.5279	0.48	48560.8475
	Continuing Calibration Verification	Ti (336.122 nm)	2.5683	0.16	392855.2653
	Continuing Calibration Verification	Tl (190.794 nm)	0.8769 Q	0.54	838.6633 Q
	Continuing Calibration Verification	V (292.401 nm)	2.5688	0.13	94053.6630
	Continuing Calibration Verification	Y (360.074 nm)	0.95	0.39	491537.49
	Continuing Calibration Verification	Y_R (360.074 nm)	0.95	0.39	492166.14
	Continuing Calibration Verification	Zn (213.857 nm)	1.0124	0.13	60090.0082
9/10/2024 15:33:44	Continuing Calibration Blank	Ag (328.068 nm)	-0.0002 u	23.34	-123.0214
	Continuing Calibration Blank	Al (237.312 nm)	0.0014	97.15	-10.7845
	Continuing Calibration Blank	As (188.980 nm)	0.0019	21.15	1.7145
	Continuing Calibration Blank	B (249.772 nm)	0.0034	19.68	184.0060
	Continuing Calibration Blank	Ba (230.424 nm)	0.0015	3.70	97.8446
	Continuing Calibration Blank	Be (313.107 nm)	0.0000	75.77	-3.4368
	Continuing Calibration Blank	Ca (317.933 nm)	0.0126	1.22	1504.7141
	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u	> 100.00	12.1253
	Continuing Calibration Blank	Co (230.786 nm)	0.0001 u	> 100.00	7.7155
	Continuing Calibration Blank	Cr (267.716 nm)	0.0001	39.39	11.9250

DateTimeMeasured	SolutionLabel	Element Label (nm)	Unadjusted Conc (ppm)	%RSD	Intensity (c/s)
	Continuing Calibration Blank	Cu (327.395 nm)	-0.0001 u	98.04	-142.7393
	Continuing Calibration Blank	Fe (234.350 nm)	0.0077	16.58	226.0879
	Continuing Calibration Blank	K (766.491 nm)	0.0238 u	89.32	398.6590
	Continuing Calibration Blank	Mg (279.078 nm)	0.0037	38.81	16.0259
	Continuing Calibration Blank	Mn (257.610 nm)	0.0002	4.94	75.9219
	Continuing Calibration Blank	Mo (202.032 nm)	0.0088	15.10	100.9189
	Continuing Calibration Blank	Na (588.995 nm)	0.1829	1.22	-6952.7023
	Continuing Calibration Blank	Ni (230.299 nm)	0.0005	57.15	8.9503
	Continuing Calibration Blank	Pb (220.353 nm)	-0.0006 u	88.55	-1.6723
	Continuing Calibration Blank	Sb (217.582 nm)	0.0056	14.07	20.0473
	Continuing Calibration Blank	Se (196.026 nm)	0.0001 u	> 100.00	1.9032
	Continuing Calibration Blank	Si (252.851 nm)	0.0089	22.09	107.2655
	Continuing Calibration Blank	Sn (189.925 nm)	0.0025	9.97	9.4438
	Continuing Calibration Blank	Sr (216.596 nm)	0.0003	24.36	12.2012
	Continuing Calibration Blank	Ti (336.122 nm)	0.0090	25.56	1446.8598
	Continuing Calibration Blank	Tl (190.794 nm)	0.0160 Z	5.29	13.7149 Z
	Continuing Calibration Blank	V (292.401 nm)	0.0003	33.68	26.4681
	Continuing Calibration Blank	Y (360.074 nm)	1.02	0.22	524163.16
	Continuing Calibration Blank	Y_R (360.074 nm)	1.02	0.22	524804.18
	Continuing Calibration Blank	Zn (213.857 nm)	0.0020	4.31	135.4266

Summary Calibration Results

Element and wavelength	Type	Units	Equation	Correlation Coefficient	%RSE
Ag (328.068 nm)	Analyte	ppm	56100.80344266 * Concentration - 112.34302783	1.00000	1.26035473
Al (237.312 nm)	Analyte	ppm	2545.46003280 * Concentration - 14.46495836	1.00000	1.25354745
As (188.980 nm)	Analyte	ppm	1603.44215523 * Concentration - 1.35903213	0.99999	6.71157013
B (249.772 nm)	Analyte	ppm	41824.02971999 * Concentration + 41.83703709	0.99998	2.73167501
Ba (230.424 nm)	Analyte	ppm	60700.19219858 * Concentration + 6.08809459	0.99997	1.96653034
Be (313.107 nm)	Analyte	ppm	1190175.88615570 * Concentration - 13.12598857	1.00000	4.15059978
Ca (317.933 nm)	Analyte	ppm	30998.64343677 * Concentration + 1113.77332347	0.99999	17.418343 33
Cd (214.439 nm)	Analyte	ppm	60005.67888096 * Concentration + 9.62065366	1.00000	1.89279363
Co (230.786 nm)	Analyte	ppm	20136.98105625 * Concentration + 4.99567776	0.99999	1.80312472
Cr (267.716 nm)	Analyte	ppm	58191.18880456 * Concentration + 3.98589728	1.00000	2.34337217
Cu (327.395 nm)	Analyte	ppm	44742.26887135 * Concentration - 139.82261380	0.99999	2.46179130
Fe (234.350 nm)	Analyte	ppm	22862.83235924 * Concentration + 50.75913305	0.99999	1.81806871
K (766.491 nm)	Analyte	ppm	1227.45173848 * Concentration + 369.39933372	0.99992	7.52948955
Mg (279.078 nm)	Analyte	ppm	4038.02223387 * Concentration + 1.12554480	1.00000	0.55245555
Mn (257.610 nm)	Analyte	ppm	347209.01982980 * Concentration + 11.79576728	0.99999	1.61830354
Mo (202.032 nm)	Analyte	ppm	10720.93223857 * Concentration + 6.71740001	1.00000	3.85033405
Na (588.995 nm)	Analyte	ppm	18299.02489293 * Concentration - 10298.68823222	0.99999	2.06571883
Ni (230.299 nm)	Analyte	ppm	12710.06059471 * Concentration + 3.01172648	0.99999	1.91871792
Pb (220.353 nm)	Analyte	ppm	5040.90531882 * Concentration + 1.41740775	0.99998	3.15639936
Sb (217.582 nm)	Analyte	ppm	2293.22894190 * Concentration + 7.20722086	0.99999	2.21424398
Se (196.026 nm)	Analyte	ppm	782.44568740 * Concentration + 1.85797712	0.99998	9.84973891
Si (252.851 nm)	Analyte	ppm	6374.41113831 * Concentration + 50.44030075	0.99999	1.72895901
Sn (189.925 nm)	Analyte	ppm	2613.90841714 * Concentration + 3.02539143	0.99999	2.92564542
Sr (216.596 nm)	Analyte	ppm	19207.80003924 * Concentration + 5.83901160	0.99999	1.21082460
Ti (336.122 nm)	Analyte	ppm	152935.34301881 * Concentration + 68.14232174	1.00000	1.36354814
Tl (190.794 nm)	Analyte	ppm	958.22195847 * Concentration - 1.64867143	0.99998	6.46845856
V (292.401 nm)	Analyte	ppm	36608.45657805 * Concentration + 14.31240122	1.00000	0.91036912
Zn (213.857 nm)	Analyte	ppm	59337.21192980 * Concentration + 14.33110294	0.99999	6.35418397

Detailed Calibration Results

Ag (328.068 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-112.3430	0.0000	0.0000	N/A
Standard 2	442.3564	0.0100	0.0099	1.1245
Standard 3	994.4768	0.0200	0.0197	1.3544
Standard 4	5443.3526	0.1000	0.0990	0.9694
Standard 5	11038.2344	0.2000	0.1988	0.6202
Standard 6	56316.6713	1.0000	1.0059	0.5850

Al (237.312 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-14.4650	0.0000	0.0000	N/A
Standard 1	245.9538	0.1000	0.1023	2.3072
Standard 2	497.0328	0.2000	0.2009	0.4726
Standard 3	1010.3380	0.4000	0.4026	0.6501
Standard 4	5059.8605	2.0000	1.9935	0.3260
Standard 5	10145.4126	4.0000	3.9914	0.2157
Standard 6	51100.8136	20.0000	20.0810	0.4048

As (188.980 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-1.3590	0.0000	0.0000	N/A
Standard 1	12.6192	0.0100	0.0087	12.8238
Standard 2	29.7064	0.0200	0.0194	3.1288
Standard 3	62.0208	0.0400	0.0395	1.1816
Standard 4	319.0959	0.2000	0.1999	0.0728
Standard 5	642.3444	0.4000	0.4015	0.3628
Standard 6	3272.8512	2.0000	2.0420	2.0994

B (249.772 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	41.8370	0.0000	0.0000	N/A
Standard 2	4112.5083	0.1000	0.0973	2.6715
Standard 3	8262.4058	0.2000	0.1966	1.7243
Standard 4	41572.4222	1.0000	0.9930	0.7016
Standard 5	83937.0523	2.0000	2.0059	0.2955
Standard 6	432586.0037	10.0000	10.3420	3.4200

Ba (230.424 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	6.0881	0.0000	0.0000	N/A
Standard 1	1212.7418	0.0200	0.0199	0.6054
Standard 2	12253.0226	0.2000	0.2018	0.8805
Standard 3	24706.9104	0.4000	0.4069	1.7329
Standard 4	122096.9206	2.0000	2.0114	0.5687
Standard 5	244197.7977	4.0000	4.0229	0.5729
Standard 6	1174349.8098	20.0000	19.3466	3.2669

Be (313.107 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-13.1260	0.0000	0.0000	N/A
Standard 1	3284.6477	0.0030	0.0028	7.6390
Standard 2	5769.3205	0.0050	0.0049	2.8304
Standard 3	11745.6566	0.0100	0.0099	1.2013
Standard 4	59575.5377	0.0500	0.0501	0.1342
Standard 5	119914.3692	0.1000	0.1008	0.7645
Standard 6	599275.4705	0.5000	0.5035	0.7059

Ca (317.933 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	1113.7733	0.0000	0.0000	N/A
Standard 2	21229.7930	0.5000	0.6489	29.7865
Standard 3	33317.3998	1.0000	1.0389	3.8872
Standard 4	159108.8857	5.0000	5.0968	1.9368
Standard 5	317369.9160	10.0000	10.2023	2.0226
Standard 6	1549421.5474	50.0000	49.9476	0.1048

Cd (214.439 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	9.6207	0.0000	0.0000	N/A
Standard 1	320.4138	0.0050	0.0052	3.5879
Standard 2	612.8269	0.0100	0.0101	0.5249
Standard 3	1218.7712	0.0200	0.0202	0.7530

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Standard 4	6029.8126	0.1000	0.1003	0.3270
Standard 5	12053.0202	0.2000	0.2007	0.3522
Standard 6	59643.3794	1.0000	0.9938	0.6198

Co (230.786 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	4.9957	0.0000	0.0000	N/A
Standard 2	1019.6967	0.0500	0.0504	0.7799
Standard 3	2062.2145	0.1000	0.1022	2.1612
Standard 4	10204.2944	0.5000	0.5065	1.2992
Standard 5	20298.9190	1.0000	1.0078	0.7794
Standard 6	99203.5233	5.0000	4.9262	1.4763

Cr (267.716 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	3.9859	0.0000	0.0000	N/A
Standard 2	602.4419	0.0100	0.0103	2.8431
Standard 3	1198.4000	0.0200	0.0205	2.6284
Standard 4	5852.7540	0.1000	0.1005	0.5095
Standard 5	11686.3502	0.2000	0.2008	0.3792
Standard 6	57590.6521	1.0000	0.9896	1.0389

Cu (327.395 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-139.8226	0.0000	0.0000	N/A
Standard 1	308.0947	0.0100	0.0100	0.1106
Standard 2	951.1154	0.0250	0.0244	2.4691
Standard 3	2038.0976	0.0500	0.0487	2.6460
Standard 4	10753.0286	0.2500	0.2435	2.6169
Standard 5	21768.9625	0.5000	0.4897	2.0667
Standard 6	111839.0491	2.5000	2.5028	0.1101

Fe (234.350 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	50.7591	0.0000	0.0000	N/A
Standard 2	2378.7652	0.1000	0.1018	1.8249
Standard 3	4697.2184	0.2000	0.2032	1.6160
Standard 4	23008.1976	1.0000	1.0041	0.4138
Standard 5	45636.4058	2.0000	1.9939	0.3062
Standard 6	224275.7852	10.0000	9.8074	1.9260

K (766.491 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	369.3993	0.0000	0.0000	N/A
Standard 2	929.5772	0.5000	0.4564	8.7251
Standard 3	1511.9950	1.0000	0.9309	6.9132
Standard 4	6328.3359	5.0000	4.8547	2.9056
Standard 5	12578.1195	10.0000	9.9464	0.5360
Standard 6	65496.8116	50.0000	53.0590	6.1181

Mg (279.078 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	1.1255	0.0000	0.0000	N/A
Standard 2	2004.4557	0.5000	0.4961	0.7767
Standard 3	4038.7498	1.0000	0.9999	0.0099
Standard 4	20292.6076	5.0000	5.0251	0.5021
Standard 5	40345.4971	10.0000	9.9911	0.0888
Standard 6	202364.1767	50.0000	50.1144	0.2288

Mn (257.610 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	11.7958	0.0000	0.0000	N/A
Standard 1	3522.1712	0.0100	0.0101	1.1027
Standard 2	5284.5425	0.0150	0.0152	1.2406
Standard 3	10608.1112	0.0300	0.0305	1.7285
Standard 4	52147.2712	0.1500	0.1502	0.1039
Standard 5	103697.0036	0.3000	0.2986	0.4584
Standard 6	509762.3897	1.5000	1.4681	2.1242

Mo (202.032 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	6.7174	0.0000	0.0000	N/A
Standard 1	258.7275	0.0250	0.0235	5.9746
Standard 2	522.7665	0.0500	0.0481	3.7306
Standard 3	1047.3345	0.1000	0.0971	2.9360
Standard 4	5317.1404	0.5000	0.4953	0.9336
Standard 5	10749.4957	1.0000	1.0020	0.2038
Standard 6	53822.3160	5.0000	5.0197	0.3935

Na (588.995 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-10298.6882	0.0000	0.0000	N/A
Standard 2	-1197.3178	0.5000	0.4974	0.5262
Standard 3	7724.6085	1.0000	0.9849	1.5068
Standard 4	81047.2827	5.0000	4.9918	0.1630
Standard 5	174827.8877	10.0000	10.1167	1.1675
Standard 6	931894.1181	50.0000	51.4887	2.9774

Ni (230.299 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	3.0117	0.0000	0.0000	N/A
Standard 2	516.5938	0.0400	0.0404	1.0188
Standard 3	1044.4129	0.0800	0.0819	2.4190
Standard 4	5138.1911	0.4000	0.4040	1.0062
Standard 5	10215.0137	0.8000	0.8035	0.4323
Standard 6	49969.2005	4.0000	3.9312	1.7192

Pb (220.353 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	1.4174	0.0000	0.0000	N/A
Standard 1	27.8605	0.0050	0.0052	4.9141
Standard 2	50.3149	0.0100	0.0097	2.9986
Standard 3	102.4249	0.0200	0.0200	0.1878
Standard 4	512.7348	0.1000	0.1014	1.4336

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Standard 5	1024.7299	0.2000	0.2030	1.5009
Standard 6	4964.7484	1.0000	0.9846	1.5389

Sb (217.582 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	7.2072	0.0000	0.0000	N/A
Standard 1	140.3852	0.0600	0.0581	3.2092
Standard 2	232.0226	0.1000	0.0980	1.9656
Standard 3	458.5695	0.2000	0.1968	1.5880
Standard 4	2281.4106	1.0000	0.9917	0.8296
Standard 5	4588.4992	2.0000	1.9977	0.1126
Standard 6	23281.6271	10.0000	10.1492	1.4919

Se (196.026 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	1.8580	0.0000	0.0000	N/A
Standard 2	8.4417	0.0100	0.0084	15.8571
Standard 3	16.7281	0.0200	0.0190	4.9769
Standard 4	77.7486	0.1000	0.0970	3.0084
Standard 5	155.2308	0.2000	0.1960	1.9914
Standard 6	794.8517	1.0000	1.0135	1.3481

Si (252.851 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	50.4403	0.0000	0.0000	N/A
Standard 2	3199.6305	0.5000	0.4940	1.1927
Standard 3	6400.9573	1.0000	0.9963	0.3748
Standard 4	32100.0818	5.0000	5.0279	0.5572
Standard 5	64056.9529	10.0000	10.0412	0.4116
Standard 6	327158.1534	50.0000	51.3158	2.6315

Sn (189.925 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	3.0254	0.0000	0.0000	N/A
Standard 2	272.4654	0.1000	0.1031	3.0794
Standard 3	541.3780	0.2000	0.2060	2.9785
Standard 4	2676.1569	1.0000	1.0227	2.2657
Standard 5	5292.5402	2.0000	2.0236	1.1802
Standard 6	25908.5730	10.0000	9.9107	0.8934

Sr (216.596 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	5.8390	0.0000	0.0000	N/A
Standard 2	967.7190	0.0500	0.0501	0.1551
Standard 3	1951.8136	0.1000	0.1013	1.3117
Standard 4	9663.0694	0.5000	0.5028	0.5553
Standard 5	19293.5476	1.0000	1.0042	0.4160
Standard 6	94629.3540	5.0000	4.9263	1.4739

Ti (336.122 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	68.1423	0.0000	0.0000	N/A
Standard 2	7573.0950	0.0500	0.0491	1.8546

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Standard 3	15228.5998	0.1000	0.0991	0.8702
Standard 4	75658.0786	0.5000	0.4943	1.1479
Standard 5	152753.6916	1.0000	0.9984	0.1633
Standard 6	766215.0863	5.0000	5.0096	0.1923

Tl (190.794 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-1.6487	0.0000	0.0000	N/A
Standard 1	6.7425	0.0100	0.0088	12.4297
Standard 2	17.6157	0.0200	0.0201	0.5213
Standard 3	36.4580	0.0400	0.0398	0.5798
Standard 4	195.5536	0.2000	0.2058	2.9001
Standard 5	386.8699	0.4000	0.4055	1.3645
Standard 6	1887.7867	2.0000	1.9718	1.4093

V (292.401 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	14.3124	0.0000	0.0000	N/A
Standard 2	1821.3957	0.0500	0.0494	1.2751
Standard 3	3646.8202	0.1000	0.0992	0.7741
Standard 4	18282.0772	0.5000	0.4990	0.1992
Standard 5	36708.2084	1.0000	1.0023	0.2334
Standard 6	183804.8638	5.0000	5.0204	0.4088

Zn (213.857 nm)

Standard	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	14.3311	0.0000	0.0000	N/A
Standard 2	1321.8826	0.0200	0.0220	10.1797
Standard 3	2477.2824	0.0400	0.0415	3.7693
Standard 4	11711.1730	0.2000	0.1971	1.4376
Standard 5	23517.7535	0.4000	0.3961	0.9752
Standard 6	119311.5166	2.0000	2.0105	0.5248

Preparation Information Benchsheet

Prep Run#: 444147
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 9/3/24 12:06

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2410888-01	MB		50mL	6010D/Al T, As T, Ba T, Ca D, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Se T	<2			50.00mL	Colorless-Clear		HB:11 Well:D2 Temp:91.3C
2	RQ2410888-04	MB		50mL	6010D/Ca D	<2			50.00mL	Colorless-Clear		Filter Blank R2408347 9/03/2024
3	RQ2410888-02	LCS		50mL	6010D/Al T, As T, Ba T, Ca D, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Se T	<2			50.00mL	Colorless-Clear	0.5000 mL/236952; 0.5000 mL/233429; 0.5000 mL/237092	On HB:16:50 HB Shutoff:2:50 Pipet/Repipettor:M340,MA100,M23
4	RQ2410888-03	DLCS		50mL	6010D/Al T, As T, Ba T, Ca D, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Se T	<2			50.00mL	Colorless-Clear	0.5000 mL/233429; 0.5000 mL/237092; 0.5000 mL/236952	
5	R2408146-077	208_311_313 MW-1 2024 AN	.05	50mL	6010D/As T, Ba T, Cd T, Co T, Cr T, Cu T, Fe T, Ni T, Pb T, Se T	<2			50.00mL	Orange-Cloudy/Orange-Cloudy		
6	R2408146-078	208_311_313 RW-1 2024 AN	.04	50mL	6010D/As T, Ba T, Cd T, Co T, Cr T, Cu T, Fe T, Ni T, Pb T, Se T	<2			50.00mL	Colorless-Clear		
7	R2408146-079	EQUIP BLANK 1 SWL IND 2024 AN	.01	50mL	6010D/As T, Ba T, Cd T, Co T, Cr T, Cu T, Fe T, Ni T, Pb T, Se T	<2			50.00mL	Colorless-Clear		
8	R2408146-080	EQUIP BLANK 2 Teflon Bailer 2024 AN	.01	50mL	6010D/As T, Ba T, Cd T, Co T, Cr T, Cu T, Fe T, Ni T, Pb T, Se T	<2			50.00mL	Colorless-Clear		
9	R2408346-001	Total Leachate	.11	50mL	6010D/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Orange-Cloudy/Colorless-Clear		
10	R2408346-002	Secondary Leachate Cell 6	.11	50mL	6010D/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
11	R2408346-003	Primary Leachate Cell 6	.11	50mL	6010D/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Orange-Cloudy/Colorless-Clear		
12	R2408347-001	Shop Well	.06	50mL	6010D/Ca T, K T, Mg T, Na T	<2			50.00mL	Colorless-Clear		
13	R2408347-002	Shop Well Diss	.01	50mL	6010D/Ca D	<2			50.00mL	Colorless-Clear		
14	R2408347-003	MW-15S	.06	50mL	6010D/Ca T, K T, Mg T, Na T	<2			50.00mL	Colorless-Clear		
15	R2408347-004	MW-15S Diss	.01	50mL	6010D/Ca D	<2			50.00mL	Colorless-Clear		
16	R2408347-005	MW-13	.06	50mL	6010D/Ca T, K T, Mg T, Na T	<2			50.00mL	Colorless-Clear		
17	R2408347-006	MW-13 Diss	.01	50mL	6010D/Ca D	<2			50.00mL	Colorless-Clear		
18	R2408347-007	MW-8	.06	50mL	6010D/Ca T, K T, Mg T, Na T	<2			50.00mL	Colorless-Clear		
19	R2408347-008	MW-8 Diss	.01	50mL	6010D/Ca D	<2			50.00mL	Colorless-Clear		
20	R2408349-001	River Downstream	.11	50mL	6010D/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 444147
Team: Metals/CDISTEFANO
Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A
Status: Prepped
Prep Date/Time: 9/3/24 12:06

21	R2408349-002	River Upstream	.11	50mL	6010D/Al T, As T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T	<2			50.00mL	Colorless-Clear		

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	233429	Logbook Ref:	233429	Expires On:	07/31/2025 Lot #: 2400837-5
Name:	Custom LCS STD B Metals	Inventory ID	236952	Logbook Ref:	236952	Expires On:	01/31/2025
Name:	C Spike	Inventory ID	237092	Logbook Ref:	236800	Expires On:	01/31/2025

Preparation Materials

1:1 HCl Metals Grade 1:1 235981 (235982) Hot Block Cups 50mL Lot 2206050 (230501) Nitric Acid Metals Grade HNO3 235979 (235979)
Thermometer 461 (230831)

Preparation Steps

Step: Digestion
Started: 9/3/24 12:06
Finished: 9/4/24 13:34
By: CDISTEFANO
Comments

8146 ~~9/4~~ 9/6
8346 9/9
8347 9/9
8349 9/9

Gold

Comments:

Reviewed By: [signature] Date: 9/4/24

Chain of Custody

Relinquished By: [signature] Date: 9/4/24
Received By: R-A01 Date: 9/4/24

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 444157
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 9/3/24 12:38

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2410891-01	MB		50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		HB:13 Well:D2 Temp:90.8C
2	RQ2410891-02	LCS		50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear	0.5000 mL/233429; 0.5000 mL/237092; 0.5000 mL/236952	On HB:16:50 HB Shutoff:2:50 Pipet/Repipettor:M340,MA100,M23
3	RQ2410891-03	DLCS		50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear	0.5000 mL/233429; 0.5000 mL/237092; 0.5000 mL/236952	
4	R2408385-001	MW-07S	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
5	R2408385-002	MW-18S	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
6	R2408385-003	MW-08SR	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
7	R2408385-004	MW-19S	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
8	R2408385-005	MW-14S	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
9	R2408385-006	MW-14D	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
10	R2408385-007	MW-27S	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
11	R2408385-008	MW-27D	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
12	R2408385-009	MW-13S	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
13	R2408385-010	MW-13D	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
14	R2408385-011	MW-15S	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
15	R2408385-012	MW-15D	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
16	R2408385-013	MW-17S	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
17	R2408385-014	MW-16S	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
18	R2408385-015	MW-24S	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
19	R2408385-016	MW-20S	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
20	R2408385-017	MW-21D	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
21	R2408385-018	MW-23SR	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
22	R2408385-019	MW-23DR	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
23	R2408385-020	DUP-02	.01	50mL	6010D/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 444157
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 9/3/24 12:38

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	233429	Logbook Ref:	233429	Expires On:	07/31/2025	Lot #:	2400837-5
Name:	Custom LCS STD B Metals	Inventory ID	236952	Logbook Ref:	236952	Expires On:	01/31/2025		
Name:	C Spike	Inventory ID	237092	Logbook Ref:	236800	Expires On:	01/31/2025		

Preparation Materials

1:1 HCl Metals Grade	1:1 235981 (235982)	Hot Block Cups	50mL Lot 2206050 (230501)	Nitric Acid Metals Grade HNO3 235979 (235979)
Thermometer	460 (230830)			

Preparation Steps

Step: Digestion
Started: 9/3/24 12:38
Finished: 9/4/24 14:48
By: CDISTEFANO
Comments

9385 9/10
(1-20)

Lot10

Comments: _____

Reviewed By: _____ Date: 9/4/24

Chain of Custody

Relinquished By: _____ Date: 9/4/24

Received By: 02-0701 Date: 9/4/24

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 444307
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 9/5/24 10:20

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2410993-01	MB		50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		HB:13 Well:F4 Temp:91.9C
2	RQ2410993-02	LCS		50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/236952; 0.5000 mL/237092; 0.5000 mL/233429	On HB:15:01 HB Shutoff:3:01 Pipet/Repipettor:M340,MA100,M23
3	R2408422-001	MW12-082724-1005	.02	50mL	6010D/Cr T	<2			50.00mL	Colorless-Clear		Tier IV
4	R2408422-002	MW5-082724-1155	.02	50mL	6010D/Cr T	<2			50.00mL	Colorless-Clear		
5	R2408422-003	MW10-082724-1405	.02	50mL	6010D/Cr T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
6	R2408422-004	MW13-082724-1615	.02	50mL	6010D/Cr T	<2			50.00mL	Colorless-Clear		
7	RQ2410993-03	R2408422-004 MS	.02	50mL	6010D/Cr T	<2			50.00mL	Colorless-Clear	0.5000 mL/237092; 0.5000 mL/233429; 0.5000 mL/236952	
8	RQ2410993-04	R2408422-004 DMS	.02	50mL	6010D/Cr T	<2			50.00mL	Colorless-Clear	0.5000 mL/236952; 0.5000 mL/237092; 0.5000 mL/233429	
9	R2408422-005	4413-082724-0001	.02	50mL	6010D/Cr T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
10	R2408422-006	MW1A-082824-1150	.02	50mL	6010D/Cr T	<2			50.00mL	Yellow-Cloudy/Green-Clear		
11	R2408422-007	MW8R-082824-1150	.02	50mL	6010D/Cr T	<2			50.00mL	Colorless-Clear		
12	R2408422-008	MW1-082824-1320	.02	50mL	6010D/Cr T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
13	R2408422-009	MW9-082824-1350	.02	50mL	6010D/Cr T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
14	R2408422-010	MW3-082824-1500	.02	50mL	6010D/Cr T	<2			50.00mL	Orange-Cloudy/Orange-Cloudy		
15	R2408422-011	MW4-082824-1530	.02	50mL	6010D/Cr T	<2			50.00mL	Colorless-Clear		
16	R2408422-012	4413-082824-0001	.02	50mL	6010D/Cr T	<2			50.00mL	Colorless-Clear		
17	R2408444-001	SW-1	.09	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		Tier IV
18	R2408444-002	SW-2	.06	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
19	R2408444-003	SW-3	.03	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
20	R2408444-004	SW-4	.07	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 444307
Team: Metals/CDISTEFANO
Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A
Status: Prepped
Prep Date/Time: 9/5/24 10:20

21	R2408444-005	FBSW-1	.06	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	233429	Logbook Ref:	233429	Expires On:	07/31/2025	Lot #: 2400837-5
Name:	Custom LCS STD B Metals	Inventory ID	236952	Logbook Ref:	236952	Expires On:	01/31/2025	
Name:	C Spike	Inventory ID	237092	Logbook Ref:	236800	Expires On:	01/31/2025	

Preparation Materials

1:1 HCl Metals Grade	1:1 235981 (235982)	Hot Block Cups	50mL Lot 2206050 (230501)	Nitric Acid Metals Grade HNO3 235979 (235979)
Thermometer	460 (230830)			

Preparation Steps

Step: Digestion
Started: 9/5/24 10:20
Finished: 9/6/24 16:42
By: CDISTEFANO
Comments

8422 (V) 9/13
8444 (V) 9/13

Comments:

Reviewed By: Nicole Mansen Date: 9/9/24

Chain of Custody

Relinquished By: CD Date: 9/6/24
Received By: R-Avi Date: 9/6/24

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 444305
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 9/5/24 10:20

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2410995-01	MB		50mL	6010D/As D, As T, Ba T, Cd T, Co T, Cr T, Cu T, Fe D, Fe T, Mn D, Ni T, Pb T, Se T	<2			50.00mL	Colorless-Clear		HB:11 Well:F4 Temp:89.9C
2	RQ2410995-02	LCS		50mL	6010D/As D, As T, Ba T, Cd T, Co T, Cr T, Cu T, Fe D, Fe T, Mn D, Ni T, Pb T, Se T	<2			50.00mL	Colorless-Clear	0.5000 mL/237092; 0.5000 mL/233429; 0.5000 mL/236952	On HB:15:01 HB Shutoff:3:01 Pipet/Repipettor:M340,MA100,M23
3	R2408140-002	OLN-UA003-F009	.08	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		Tier IV
4	R2408140-003	OLN-UA002-F009	.08	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
5	R2408140-004	OLN-FB001-B009	.08	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
6	R2408140-005	OLN-CW13A-F009	.04	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
7	R2408140-006	OLV-CW013-F009	.04	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
8	R2408140-007	OLN-EB001-E009	.08	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
9	R2408140-008	OLN-FB002-B009	.08	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
10	R2408140-009	OLN-18M-F009	.04	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
11	R2408140-010	OLN-RU028-F009	.08	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
12	R2408140-011	OLN-RU020-F009	.08	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
13	R2408140-012	OLN-RU021-F009	.08	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
14	R2408140-013	OLN-FD002-D009	.08	50mL	6010D/As D, Fe D, Mn D	<2			50.00mL	Colorless-Clear		
15	R2408146-082	208_311_313 MW-2 2024 AN	.05	50mL	6010D/As T, Ba T, Cd T, Co T, Cr T, Cu T, Fe T, Ni T, Pb T, Se T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
16	R2408421-001	ACODOWN-082924-1000	.02	50mL	6010D/Cr T	<2			50.00mL	Colorless-Clear		
17	RQ2410995-03	R2408421-001 MS	.02	50mL	6010D/Cr T	<2			50.00mL	Colorless-Clear	0.5000 mL/236952; 0.5000 mL/237092; 0.5000 mL/233429	
18	RQ2410995-04	R2408421-001 DMS	.02	50mL	6010D/Cr T	<2			50.00mL	Colorless-Clear	0.5000 mL/236952; 0.5000 mL/233429; 0.5000 mL/237092	
19	R2408421-002	4413-082924-0001	.02	50mL	6010D/Cr T	<2			50.00mL	Colorless-Clear		
20	R2408421-003	UP00800-082924-1130	.02	50mL	6010D/Cr T	<2			50.00mL	Colorless-Clear		
21	R2408421-004	UP02450-082924-1230	.02	50mL	6010D/Cr T	<2			50.00mL	Colorless-Clear		Tier IV
22	R2408421-005	4413-082924-0002	.02	50mL	6010D/Cr T	<2			50.00mL	Colorless-Clear		

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	233429	Logbook Ref:	233429	Expires On:	07/31/2025	Lot #:	2400837-5
Name:	Custom LCS STD B Metals	Inventory ID	236952	Logbook Ref:	236952	Expires On:	01/31/2025		
Name:	C Spike	Inventory ID	237092	Logbook Ref:	236800	Expires On:	01/31/2025		

Preparation Materials

1:1 HCl Metals Grade 1:1 235981 (235982) Hot Block Cups 50mL Lot 2206050 (230501) Nitric Acid Metals Grade HNO3 235979 (235979)
Thermometer 461 (230831)

Preparation Information Benchsheet

Prep Run#: 444305
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 9/5/24 10:20

Preparation Steps

Step: Digestion
Started: 9/5/24 10:20
Finished: 9/6/24 16:16
By: CDISTEFANO
Comments

8140 (V) 9/12
8140 9/9
~~8411 9/16~~
8421 (V) 9/13

Comments: _____

Reviewed By: Nicole Mansen Date: 9/9/24

Chain of Custody

Relinquished By:	CD	Date:	9/6/24	Extracts Examined
Received By:	R - AO.	Date:	9/6/24	Yes No

Preparation Information Benchsheet

Prep Run#: 444306
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 9/5/24 10:20

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2410996-01	MB		50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		HB:11 Well:F4 Temp:89.9C
2	RQ2410996-02	LCS		50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/237092; 0.5000 mL/233429; 0.5000 mL/236952	On HB:15:01 HB Shutoff:3:01 Pipet/Repipettor:M340,MA100,M23
3	R2408212-001	EB-01	.12	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		Tier IV
4	R2408212-002	MW-32S	.11	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Yellow-Cloudy/Yellow-Cloudy		
5	R2408212-003	MW-32D	.12	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
6	R2408212-004	MW-31D	.12	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
7	R2408212-005	MW-31S	.12	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
8	R2408212-006	MW-30S	.12	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
9	R2408212-007	MW-30D	.12	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
10	R2408212-008	MW-29D	.12	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 444306 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/CDISTEFANO **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 9/5/24 10:20

11	R2408212-009	MW-28S	.12	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
12	R2408212-010	MW-28D	.12	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
13	RQ2410996-03	R2408212-010 MS	.12	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/233429; 0.5000 mL/236952; 0.5000 mL/237092	
14	RQ2410996-04	R2408212-010 DMS	.12	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/237092; 0.5000 mL/236952; 0.5000 mL/233429	
15	R2408212-011	DUP-01	.12	50mL	6010D/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
16	R2408411-002	NYW-397	.12	50mL	6010D/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T	<2			50.00mL	Colorless-Cloudy/Yellow-Cloudy		
17	R2408411-003	NYW-431	.12	50mL	6010D/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T	<2			50.00mL	Colorless-Cloudy/Colorless-Cloudy		
18	R2408411-005	NYW-403	.12	50mL	6010D/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T	<2			50.00mL	Grey-Cloudy/Grey-Cloudy		
19	R2408411-006	NYW-150	.12	50mL	6010D/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T	<2			50.00mL	Yellow-Cloudy/Yellow-Cloudy		
20	R2408411-007	NYW-204	.12	50mL	6010D/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T	<2			50.00mL	Yellow-Cloudy/Yellow-Cloudy		
21	R2408411-008	NYW-214	.12	5mL	6010D/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T	14			50.00mL	Yellow-Cloudy/Colorless-Clear		Diluted 10x
22	R2408411-009	NYW-167	.12	50mL	6010D/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T	<2			50.00mL	Colorless-Clear		
23	R2408411-010	NYW-145	.12	5mL	6010D/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T	14			50.00mL	Yellow-Cloudy/Colorless-Clear		Diluted 10x

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	233429	Logbook Ref:	233429	Expires On:	07/31/2025	Lot #:	2400837-5
Name:	Custom LCS STD B Metals	Inventory ID	236952	Logbook Ref:	236952	Expires On:	01/31/2025		
Name:	C Spike	Inventory ID	237092	Logbook Ref:	236800	Expires On:	01/31/2025		

Preparation Materials

1:1 HCl Metals Grade	1:1 235981 (235982)	Hot Block Cups	50mL Lot 2206050 (230501)	Nitric Acid Metals Grade HNO3 235979 (235979)
Thermometer	461 (230831)			

Preparation Information Benchsheet

Prep Run#: 444306
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 9/5/24 10:20

Preparation Steps

Step: Digestion
Started: 9/5/24 10:20
Finished: 9/6/24 16:41
By: CDISTEFANO
Comments

8212 (IV) 9/13
~~8212 (IV) 9/13~~
8411 9/16

Comments: _____

Reviewed By: Nicole Maassen Date: 9/9/24

Chain of Custody

Relinquished By:		Date:	9/6/24	Extracts Examined
Received By:	G2 - AU1	Date:	9/6/24	Yes No

Preparation Information Benchsheet

Prep Run#: 444308
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 9/5/24 10:20

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2410997-01	MB		50mL	6010D/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T	<2			50.00mL	Colorless-Clear		HB:13 Well:F4 Temp:91.9C
2	RQ2410997-02	LCS		50mL	6010D/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T	<2			50.00mL	Colorless-Clear	0.5000 mL/233429; 0.5000 mL/237092; 0.5000 mL/236952	On HB:15:01 HB Shutoff:3:01 Pipet/Repipettor:M340,MA100,M23
3	RQ2410997-03	DLCS		50mL	6010D/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T	<2			50.00mL	Colorless-Clear	0.5000 mL/233429; 0.5000 mL/237092; 0.5000 mL/236952	
4	R2408410-001	NYW-178	.12	50mL	6010D/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T	<2			50.00mL	Colorless-Clear		
5	R2408410-002	NYW-352	.12	50mL	6010D/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		
6	R2408410-003	NYW-355	.12	5mL	6010D/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T	<2			50.00mL	Colorless-Cloudy/Colorless-Clear		Diluted 10x-Reactive
7	R2408410-004	NYW-212	.12	50mL	6010D/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T	<2			50.00mL	Blue-Cloudy/Colorless-Cloudy		
8	R2408410-005	NYW-0863	.12	50mL	6010D/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T	<2			50.00mL	Orange-Cloudy/Colorless-Cloudy		
9	R2408410-006	NYW-357	.12	50mL	6010D/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T	<2			50.00mL	Yellow-Cloudy/Colorless-Cloudy		
10	R2408410-007	NYW-0862	.12	50mL	6010D/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T	<2			50.00mL	Orange-Cloudy/Colorless-Cloudy		
11	R2408410-008	NYW-0861	.12	5mL	6010D/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T	<2			50.00mL	Colorless-Cloudy/Orange-Cloudy		Diluted 10x-Reactive
12	R2408410-010	NYW-249	.12	5mL	6010D/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T	14			50.00mL	Colorless-Cloudy/Colorless-Clear		Diluted 10x
13	R2408410-011	NYW-344	.12	5mL	6010D/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T	14			50.00mL	Colorless-Cloudy/Colorless-Cloudy		Diluted 10x
14	R2408410-012	NYW-137	.12	50mL	6010D/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T	<2			50.00mL	Colorless-Clear		
15	R2408410-013	NYW-138	.12	50mL	6010D/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T	<2			50.00mL	Yellow-Cloudy/Colorless-Clear w/ White-Precipitate		
16	R2408410-015	NYW-341	.12	50mL	6010D/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T	<2			50.00mL	Orange-Cloudy/Yellow-Cloudy		
17	R2408410-016	NYW-354	.12	50mL	6010D/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T	<2			50.00mL	Colorless-Cloudy/Colorless-Cloudy		
18	R2408410-017	NYW-340	.12	50mL	6010D/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T	<2			50.00mL	Colorless-Cloudy/Colorless-Cloudy		
19	R2408410-018	NYW-443	.12	50mL	6010D/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T	<2			50.00mL	Colorless-Clear/Colorless-Clear w White-Precipitate		

Spiking Solutions

Name:	Custom LCS STD A Metals	Inventory ID	233429	Logbook Ref:	233429	Expires On:	07/31/2025	Lot #: 2400837-5
Name:	Custom LCS STD B Metals	Inventory ID	236952	Logbook Ref:	236952	Expires On:	01/31/2025	
Name:	C Spike	Inventory ID	237092	Logbook Ref:	236800	Expires On:	01/31/2025	

Preparation Information Benchsheet

Prep Run#: 444308
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 9/5/24 10:20

Preparation Materials

1:1 HCl Metals Grade	1:1 235981 (235982)	Hot Block Cups	50mL Lot 2206050 (230501)	Nitric Acid Metals Grade HNO3 235979 (235979)
Thermometer	460 (230830)			

Preparation Steps

Step: Digestion
Started: 9/5/24 10:20
Finished: 9/6/24 16:55
By: CDISTEFANO
Comments

8410 9/16
~~8411 9/16~~
~~(#9, #10)~~

Comments: _____

Reviewed By: Nicole Mansen Date: 9/9/24

Chain of Custody

Relinquished By:	CD	Date:	9/16/24	Extracts Examined
Received By:	R-A01	Date:	9/16/24	Yes No

Preparation Information Benchsheet

Prep Run#: 444356 **Prep WorkFlow:** MetDigLP **Status:** Prepped
Team: Metals/CDISTEFANO **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 9/5/24 16:42

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2411022-01	MB	.01	50mL	6010D/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP				50.00mL	Colorless-Clear		
2	RQ2411022-02	MB		50mL	6010D/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP				50.00mL	Colorless-Clear		
3	RQ2411027-01	MB	.01	50mL	6010D/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP				50.00mL	Colorless-Clear		
4	RQ2411038-01	MB		50mL	6010D/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP				50.00mL	Colorless-Clear		HB:12 Well:F4 Temp:92.4C
5	RQ2411038-02	LCS		50mL	6010D/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP				50.00mL	Colorless-Clear	1.0000 mL/236590	On HB:15:01 HB Shutoff:3:01 Pipet/Repipettor:M340,MA100,M28
6	R2408251-001	Annual Cake	.07	50mL	6010D/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP				50.00mL	Yellow-Cloudy/Yellow-Cloudy		
7	R2408366-001	RH 24001 - soil	.05	50mL	6010D/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP				50.00mL	Colorless-Clear		
8	R2408414-001	Sludge	.03	50mL	6010D/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP				50.00mL	Colorless-Clear		
9	R2408466-001	Dry Well Sludge	.02	50mL	6010D/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP				50.00mL	Colorless-Clear/Yellow-Clear		
10	RQ2411038-03	R2408466-001 MS	.02	50mL	6010D/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP				50.00mL	Colorless-Clear/Yellow-Clear	1.0000 mL/236590	
11	RQ2411038-04	R2408466-001 DMS	.02	50mL	6010D/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP				50.00mL	Colorless-Clear/Yellow-Clear	1.0000 mL/236590	

Spiking Solutions

Name: TCLP Spike Inventory ID 236590 Logbook Ref: 236590 Expires On: 01/14/2025

Preparation Materials

1:1 HCl Metals Grade 1:1 235981 (235982)

Hydrochloric Acid (HCl) Metals Grade 235981 (235981)

Nitric Acid Metals Grade HNO3 235979 (235979)

Thermometer 462 (230832)

Preparation Information Benchsheet

Prep Run#: 444356
Team: Metals/CDISTEFANO

Prep WorkFlow: MetDigLP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 9/5/24 16:42

Preparation Steps

Step: Digestion
Started: 9/5/24 16:42
Finished: 9/6/24 14:36
By: CDISTEFANO
Comments

TCLP
8251 9/6
8366 9/9
8414 9/10
8466 9/11

Comments:

Reviewed By: Nicole Manson Date: 9/9/24

Chain of Custody

Relinquished By: [signature] Date: 9/6/24
Received By: R - A01 Date: 9/6/24

Extracts Examined
Yes No

SOP: MET-TCLP

Non-VOA TCLP Extraction - EPA 1311

Analyst: LP/EDG F1: 444347 F2: 444348

Rotator ID	4			
Date started	9/4/24			
Time started	17:17			
RPM (daily when full)	30			
Within 28-32rpm?	Y	EDG 9/5/24		
Date ended	9/5/24			
Time ended	900			

Comments: —

Room Temp Therm ID: 427

	°C
Min	21.0
Max	25.0

Within Limits (21-25°C)? Y

Comments: —

pH Meter: RP409
Balance: R-05
HNO3 preservative: ①
Fluid #1 concentrate: 237-018 pH 4.93±0.05
Fluid #2 concentrate: — pH 2.88±0.05
Filter Lot: 236215
Filter Date: 9/5/24

Diluted fluid concentrates prepared Daily

Fluid Determination Hotplate:
Thermometer ID 307
Temp °C 50°C
1N HCl lot (if used): 231256

Order #	Extraction Vessel ID	Rotator ID	Tests Needed	Will yield Liquid under Pressure?	Part size Reduced?*	Fluid determination** A. 5g+96.5mLDI 5min g	Start	End	pH	B.If pH >5, add 3.5mL 1N HCl 10m@48-52C Start	End	pH	Sample Aliq (g)	Fluid # used	Fluid vol Used (ml)	Filtration Time	pH	If separated Filtrate compatible?	Recombination amount filtrate	amount leachate	Comments
R2410825-001	77	4	Met/Sulfides	N	N	4.65			8.01			2.96	1	101.99	200ml	1600	5.77				
R2408466-001	DI50		Metals			5.34			7.88			2.37	1	101.30		1556	6.01				
R2410831-001	8316					5.03			7.82			5.84	2	101.34		1607	6.17				
R2408414-001	2319		Met/Sulfides			4.79			7.48			2.41	2	107.90		1604	5.34				
RQ2411022-01	2313		Met/Sulfides			—			—			—	1	—		1613	4.27				
RQ -02	D5D0		Metals										1	—		1610	4.20				
RQ2411027-01			Metals										2	—		1615	6.10				

OR 9/4/24

Metals extracts matrix spiked prior to preservation? ①

Comments:
① unpreserved / unspiked samples given to metals

Percent Solids Determination, if needed

Order #					
Ws: Weight of sample	105.29 9/4/24				
Wc: Tare Wt of container					
Wcs: Final Wt of container					
%solids = 100 x (Ws-(Wcs-Wc))/Ws					

*Reduce until will pass 9.5mm sieve
**If pH in A or B is <5.0 use fluid 1, if >5.0 use fluid 2

Volume of ext fluid: 20(%sol)(sample wt)/100

P:\INTRANET\QAQC\Forms Controlled\TCLP bench r9

Preparation Information Benchsheet

Prep Run#: 444348
Team: Semivoa GC/EDEGRAY

Prep WorkFlow: TCLP
Prep Method:

Status: Prepped
Prep Date/Time: 9/5/24 15:57

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2411027-01	MB		100g	EPA 1311/TCLP				2,000.00mL			
2	R2408366-001	RH 24001 - soil	02	101.3400g	EPA 1311/TCLP				2,000.00mL			

Preparation Steps

Step: Leach
Started: 9/5/24 15:57
Finished: 9/5/24 16:00
By: EDEGRAY
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Preparation Information Benchsheet

Prep Run#: 444347
Team: Semivoa GC/EDEGRAY

Prep WorkFlow: TCLP
Prep Method:

Status: Prepped
Prep Date/Time: 9/5/24 15:51

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2411022-01	MB		100g	EPA 1311/TCLP				2,000.00mL			
2	RQ2411022-02	MB		100g	EPA 1311/TCLP				2,000.00mL			
3	R2408251-001	Annual Cake	02	101.9900g	EPA 1311/TCLP				2,000.00mL			
4	R2408466-001	Dry Well Sludge	01	101.3000g	EPA 1311/TCLP				2,000.00mL			
5	R2408414-001	Sludge	01	107.9400g	EPA 1311/TCLP				2,000.00mL			

Preparation Steps

Step: Leach
Started: 9/5/24 15:51
Finished: 9/5/24 15:53
By: EDEGRAY
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

ICP ICV/CCV Standard

Standard is prepared daily

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 1	Ca	233888	5000	1.00	200	25.00
	Mg		5000			25.00
	K		5000			25.00
	Na		5000			25.00
Cal Std 2	Ag	233889	100	1.00		0.50
	Cr		100			0.50
	Mn		150			0.75
	Ni		400			2.00
	Zn		200			1.00
Cal Std 3	Al	235477	2000	1.00		10.00
	Ba		2000			10.00
	Be		50			0.25
	Co		500			2.50
	Cu		250			1.25
	Fe		1000			5.00
	V		500			2.50
Cal Std 4	As	235157	100	2.00		1.00
	Cd		50			0.50
	Pb		50			0.50
	Se		50			0.50
	Tl		100			1.00
	Sb	235285	1000	1.00		5.00
	Sn	235152	1000	1.00		5.00
	B	231910	1000	0.50		2.50
	Mo	233427	1000	0.50		2.50
	Ti	233840	1000	0.50		2.50
	Sr	230304	1000	0.50		2.50
	Si	235479	1000	2.00		10.00

Matrix	Analyst/ Date	Letter ID	HNO3 Lot #	HCl Lot #	Expiration Date	Pipet ID
16% HNO3 5% HCl	NM 7/25/24	A	235979	234782	7/26/24	M36
2% HNO3 5% HCl	EC 7/26/24	B	235979	234782	7/27/24	M36
16% HNO3 5% HCl	NM 7/29/24	C	235979	234782	7/30/24	M36
10% HNO3 5% HCl	EC 7/31/24	D	235979	235981	8/1/24	M40
2% HNO3 5% HCl	NM 7/31/24	E	235979	235981	8/1/24	M40
10% HNO3 5% HCl	NM 8/2/24	F	235979	235981	8/3/24	M36
2% HNO3 5% HCl	NM 8/5/24	G	235979	235981	8/6/24	M36
10% HNO3 5% HCl	NM 8/6/24	H	235979	235980	8/7/24	M36
2% HNO3 5% HNO3	NM 8/7/24	I	235979	235981	8/8/24	M40
10% HNO3 5% HCl	NM 8/8/24	J	235979	235981	8/9/24	M40
10% HNO3 5% HCl	NM 8/9/24	K	235979	235981	8/10/24	M40
10% HNO3 5% HCl	NM 8/13/24	L	235979	235981	8/14/24	M40
2% HNO3 5% HCl	NM 8/14/24	M	235979	235981	8/15/24	M40
10% HNO3 5% HCl	NM 8/15/24	N	235979	235981	8/16/24	M36
10% HNO3 5% HCl	NM 8/19/24	O	235979	235981	8/20/24	M40
2% HNO3 5% HCl	NM 8/21/24	P	235979	235981	8/22/24	M36
10% HNO3 5% HCl	NM 8/21/24	Q	235979	235981	8/22/24	M40
2% HNO3 5% HCl	NM 8/22/24	R	235979	235981	8/23/24	M36
10% HNO3 5% HCl	EC 8/23/24	S	235979	235981	8/24/24	M40
2% HNO3 5% HCl	EC 8/26/24	T	235979	235981	8/27/24	M40
10% HNO3 5% HCl	NM 8/27/24	U	235979	235981	8/28/24	M40
2% HNO3 5% HCl	NM 8/28/24	V	235979	235981	8/29/24	M40
10% HNO3 5% HCl	NM 8/29/24	W	235979	235981	8/30/24	M40
10% HNO3 5% HCl	NM 8/31/24	X	235979	235981	9/1/24	M40
10% HNO3 5% HCl	EC 9/4/24	Y	235979	235981	9/5/24	M40
10% HNO3 5% HCl	EC 9/6/24	Z	235979	235981	9/7/24	M40
2% HNO3 5% HCl	EC 9/9/24	AA	235979	235981	9/10/24	M40
10% HNO3 5% HCl	NM 9/9/24	BB	235979	235981	9/10/24	M40
		CC				
		DD				

ICP Calibration Standard #1

Metal	ALS Lot #	Conc. (ppm)	Vol (mls)	Final Vol (mls)	Final Conc. (ppm)
Al	233887	10000	0.01	1000	0.100
As	230302	1000	0.01		0.010
Ba	233717	1000	0.02		0.020
Be	230311 (1/10)	100	0.03		0.003
Cd	234567 (1/10)	100	0.05		0.005
Cu	230454	1000	0.01		0.010
Mn	233718	1000	0.01		0.010
Mo	233720	1000	0.025		0.025
Pb	233694 (1/10)	100	0.05		0.050
Sb	230313	1000	0.06		0.060
Tl	233695	1000	0.01		0.010

Standard is prepared every 6 months or as necessary

Matrix	Analyst/ Date	Letter ID	HNO3 Lot #	HCl Lot #	Expiration Date	Pipet ID
2% HNO3 5% HCl	NM 6/28/24	**A**	235024	234782	12/28/24	M39
10% HNO3 5% HCl	NM 7/29/24	**B**	235979	234782	TS: 1/14/25	M37
		C				
		D				
		E				
		F				
		G				
		H				
		I				
		J				
		K				
		L				
		M				
		N				
		O				
		P				
		Q				
		R				
		S				
		T				
		U				
		V				
		W				
		X				
		Y				
		Z				

ICP Calibration Standard 6

Standard is prepared every 6 months or as necessary

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 2	Ag	234476	100	5.00	500	1.00
	Cr		100			1.00
	Mn		150			1.50
	Ni		400			4.00
	Zn		200			2.00
Cal Std 3	Al	233055	2000	5.00		20.00
	Ba		2000			20.00
	Be		50			0.50
	Co		500			5.00
	Cu		250			2.50
	Fe		1000			10.00
	V		500			5.00
Cal Std 4	As	231798	100	10.00		2.00
	Cd		50			1.00
	Pb		50			1.00
	Se		50			1.00
	Tl		100			2.00
	Ca	230305	10000	2.50		50.00
	Mg	230307	10000	2.50		50.00
	K	233452	10000	2.50		50.00
	Na	230308	10000	2.50		50.00
	Sb	230313	1000	5.00		10.00
	Sn	234660	1000	5.00		10.00
	B	233693	1000	5.00		10.00
	Mo	233720	1000	2.50		5.00
	Ti	235397	1000	2.50		5.00
	Sr	230310	1000	2.50		5.00
	Si	234659	10000	~~25.00~~ 2.50 NM 7/29/24		50.00

Matrix	Analyst/ Date	Letter ID	HNO3 Lot #	HCl Lot #	Expiration Date	Pipet ID
10% HNO3 5% HCl	NM 7/29/24	A	235979	234782	11/2/24	M38
		B				
		C				
		D				
		E				
		F				
		G				
		H				
		I				
		J				
		K				
		L				
		M				
		N				
		O				
		P				
		Q				
		R				
		S				
		T				
		U				
		V				
		W				
		X				
		Y				
		Z				

ICP HLCCV Standard

Standard is prepared every 6 months or as necessary

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 2	Ag	234476	100	4.00	200	2.00
	Cr		100			Below
	Mn		150			Below
	Ni		400			8.00
	Zn		200			Below
Cal Std 3	Al	233055	2000	4.00		Below
	Ba		2000			40.00
	Be		50			1.00
	Co		500			10.00
	Cu		250			Below
	Fe		1000			Below
	V		500			10.00
Cal Std 4	As	231798	100	8.00		4.00
	Cd		50			2.00
	Pb		50			Below
	Se		50			Below
	Tl		100			4.00
	Ca	230305	10000	5.00		250.00
	K	233452	10000	2.00		100.00
	Mg	230307	10000	10.00		500.00
	Na	230308	10000	5.00		250.00
	Al	233887	10000	9.20		500.00
	Fe	230306	1000	1.60		100.00
	B	233693	1000	10.00		50.00
	Mo	233720	1000	2.00		10.00
	Ti	235397	1000	2.00		10.00
	Sr	230310	1000	2.00		10.00
	Cr	230312	1000	1.60		10.00
	Pb	233694	1000	1.60		10.00
	Se	230309	1000	1.60		10.00
	Mn	233718	1000	1.40		10.00
	Zn	233723	1000	1.20		10.00
	Cu	230454	1000	3.00		20.00
	Si	234659	10000	~~20.00~~ 2.00		100.00

Matrix	Analyst/ Date	Letter ID	HNO3 Lot #	HCl Lot #	Expiration Date	Pipet ID
10% HNO3 5% HCl	NM 7/12/24	A	235979	234782	11/2/24	M38 M36
2% HNO3 5% HCl	NM 7/26/24	B	235979	234782	11/2/24	M38 M40
		C				
		D				
		E				
		F				
		G				
		H				
		I				
		J				
		K				
		L				
		M				
		N				
		O				
		P				
		Q				
		R				
		S				
		T				
		U				
		V				
		W				
		X				
		Y				
		Z				

ICP HLCCV3 (Standard is prepared every 6 months or as necessary)

/HLCCVB

Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)
CA	230305	10,000	~~2.000~~ 4.000	~~100~~ 200
CU	230454	1000	~~0.400~~ 0.800	
FE	230306	10,000	~~0.400~~ 0.800	
K	233452	10,000	~~1.000~~ 2.000	
TL	233695	1000	~~0.300~~ 0.600	
NA	230308	10,000	~~1.500~~ 3.000	
MG	230307	10,000	~~4.000~~ 8.000	

Final Conc. (ppm)	Matrix	Analyst / Date	Letter ID	Nitric Acid Lot #	HCL Lot #	Expiration Date	Pipet ID
200.00	2% HNO_3 5% HNO_3	MFM 4/24/24	A	233477	233283	10/24/24	M36 M38
4.00	10% HNO_3 5% HCl	NM 5/16/24	B	233477	233283	11/2/24	M40 M38
40.00			C				
100.00			D				
3.00			E				
150.00			F				
400.00			G				
			H				
			I				
			J				
			K				
			L				
			M				
			N				
			O				
			P				
			Q				
			R				
			S				
			T				
			U				

ICP Mixed SIC/ ICSA Standard

Standard is prepared every 6 months or as necessary

	Metal	ALS Lot #	Conc. (ppm)	Vol (mls)	Final Vol (mls)	Final Conc. (ppm)
Inter. A Soln	**Al**	236126	5000	50	500	500.0
	Ca	↓	5000			500.0
	Fe		2000			100.0
	Mg		5000			250.0

Matrix	Analyst/ Date	Letter ID	HNO3 Lot #	HCl Lot #	Expiration Date	Pipet ID
10% HNO3 5% HCl	NM 7/12/24	**A**	235929 ~~235924~~ NM 7/12/24	234782	1/12/25	dispo
		B				
		C				
		D				
		E				
		F				
		G				
		H				
		I				
		J				
		K				
		L				
		M				
		N				
		O				
		P				
		Q				
		R				
		S				
		T				
		U				
		V				
		W				
		X				
		Y				
		Z				

ICP Internal Standard Solution

Standard is prepared every 6 months or as necessary

(Added In-line)

Metal	ALS Lot #	Conc. (ppm)	Vol (mls)	Final Vol (mls)	Final Conc. (ppm)
Y	233696	10000	2.00	2000	10.0
Cs	233726	10000	2		10.0

Matrix	Analyst/ Date	Letter ID	HNO3 Lot #	HCl Lot #	Expiration Date	Pipet ID
2% HNO3/ 5% HCl	NM 6/11/24	A	235024	233783	12/11/24	M36
	NM 6/11/24	B	235024	233783	12/11/24	M36
	NM 6/25/24	C	235024	234782	12/25/24	M36
	NM 6/25/24	D	235024	234782	12/25/24	M36
	NM 7/16/24	E	235979	234782	1/16/25	M36
	NM 7/16/24	F	235979	234782	1/16/25	M36
	NM 8/6/24	G	235979	235981	2/6/25	M36
	NM 8/6/24	H	235979	235981	2/6/25	M36
	NM 8/27/24	I	235979	235981	2/27/24	M40
	NM 8/27/24	J	235979	235981	2/27/24	M40
		K				
		L				
		M				
		N				
		O				
		P				
		Q				
		R				
		S				
		T				
		U				
		V				
		W				
		X				
		Y				
		Z				

7900 ICP-MS 200.8/6020A
Sample Report

Sample Name	MIXED SIC CHECK
File Name	064SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\BatchTemplate\071224-MS7900.b
Acq Time	07/12/24 15:33:03
Sample Type	Sample
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	017CALB.d

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	QC Flag
Be	9	45	No Gas	0.544	ppb	10.0	971.15	
Al	27	72	No Gas	322444.426	ppb	4.5	5612154514.77	>LDR
V	51	72	He	0.436	ppb	6.1	2732.49	
Cr	52	72	No Gas	1.521	ppb	5.3	73591.58	
Mn	55	72	No Gas	2.187	ppb	6.5	107919.86	
Co	59	72	He	1.801	ppb	2.1	20840.82	
Ni	60	72	No Gas	3.840	ppb	3.3	36625.17	
Cu	63	72	No Gas	1.557	ppb	5.7	37782.21	
Zn	66	72	No Gas	13.477	ppb	6.3	87873.52	
As	75	72	No Gas	0.337	ppb	187.4	1856.60	
Se	78	72	He	0.284	ppb	39.3	79.33	
Se	82	72	No Gas	1.412	ppb	13.9	636.20	
Mo	98	89	No Gas	0.609	ppb	8.2	11393.09	
Ag	107	89	No Gas	0.525	ppb	39.0	15625.66	
Cd	111	89	No Gas	0.040	ppb	41.4	1844.92	
Sb	123	89	No Gas	1.599	ppb	36.3	31605.47	
Ba	137	115	No Gas	1.096	ppb	5.8	9460.01	
Tl	203	115	No Gas	0.136	ppb	54.6	1867.95	
Pb	208	115	No Gas	3.825	ppb	3.1	158862.77	
Th	232	115	No Gas	5.755	ppb	74.8	203228.61	
U	238	115	No Gas	0.101	ppb	69.9	3412.86	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4808164.11	4.6	4532583.29	106.08	60	125	
Sc	45	He	234013.32	1.7	213409.89	109.65	60	125	
Ge	72	No Gas	3656053.33	4.9	3361580.56	108.76	60	125	
Ge	72	He	510426.87	2.0	432580.99	118	60	125	
Y	89	No Gas	5149165.63	1.0	4860989.67	105.93	60	125	
Y	89	He	747082.99	2.6	669269.97	111.63	60	125	
Rh	103	No Gas	4007497.76	3.8	4190673.03	95.63	60	125	
Rh	103	He	1858212.01	2.7	1872215.83	99.25	60	125	
In	115	No Gas	4446155.24	1.0	4430208.29	100.36	60	125	
Lu	175	No Gas	20700.78	3.8	17529.44	118.09	60	125	

Sample Dilutions 200.7/200.8

Final Volume: 5-6mL

Analyst: NM
Instrument: MS7900

Date 9/9/24
Analysis 200.8/6020B

Common Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mLs of Sample	mLs of Diluent	Dilution Factor	mLs of Sample	mLs of Diluent	Dilution Factor	mLs of Sample	mLs of Diluent	Dilution Factor	mLs of Sample	mLs of Diluent	Dilution Factor	mLs of Sample	mLs of Diluent	Dilution Factor
1/2	2%HNO3/ 5%HCL	2.5	2.5	**1/2**												
1/3	2%HNO3/ 5%HCL	2	4	**1/3**												
1/5	2%HNO3/ 5%HCL	1	4	**1/5**												
1/10	2%HNO3/ 5%HCL	0.5	4.5	**1/10**												
1/10	2%HNO3/ 5%HCL	0.6	5.4	**1/10**												
1/20	2%HNO3/ 5%HCL	1	1	**1/2**	0.5	4.5	**1/20**									
1/50	2%HNO3/ 5%HCL	1	4	**1/5**	0.5	4.5	**1/50**									
1/100	2%HNO3/ 5%HCL	0.5	4.5	**1/10**	0.5	4.5	**1/100**									
1/200	2%HNO3/ 5%HCL	1	1	**1/2**	0.5	4.5	**1/20**	0.5	4.5	**1/200**						
1/500	2%HNO3/ 5%HCL	1	4	**1/5**	0.5	4.5	**1/50**	0.5	4.5	**1/500**						
1/1000	2%HNO3/ 5%HCL	0.5	4.5	**1/10**	0.5	4.5	**1/100**	0.5	4.5	**1/1000**						
1/2000	2%HNO3/ 5%HCL	1	1	**1/2**	0.5	4.5	**1/20**	0.5	4.5	**1/200**	0.5	4.5	**1/2000**			
1/5000	2%HNO3/ 5%HCL	1	4	**1/5**	0.5	4.5	**1/50**	0.5	4.5	**1/500**	0.5	4.5	**1/4000**			
1/10000	2%HNO3/ 5%HCL	0.5	4.5	**1/10**	0.5	4.5	**1/100**	0.5	4.5	**1/1000**	0.5	4.5	**1/10000**			
1/20000	2%HNO3/ 5%HCL	1	1	**1/2**	0.5	4.5	**1/20**	0.5	4.5	**1/200**	0.5	4.5	**1/2000**	0.5	4.5	**1/20000**

Special Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mLs of Sample	mLs of Diluent	Dilution Factor	mLs of Sample	mLs of Diluent	Dilution Factor	mLs of Sample	mLs of Diluent	Dilution Factor	mLs of Sample	mLs of Diluent	Dilution Factor	mLs of Sample	mLs of Diluent	Dilution Factor

Form 2

Calibration Verifications

Metals by EPA 6010D

Workorder

R2408140

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 12-Month Sampling

09/24/2024

ALS Environmental–Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Form 2 - Calibration Verifications

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 12-Month Sampling	**R2408140**	

Metals by EPA 6010D (P)

R-ICP-AES-07_853503		ICV			CCV			CCV			CCV			CCV		
Units ug/L	**Run Date**	09/09/24			09/09/24			09/09/24			09/09/24			09/09/24		
	Run Time	15:59			18:47			19:26			20:05			20:27		
Analyte		Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q
Arsenic		1.00	**100**		0.994	**99**		0.997	**100**		0.990	**99**		1.01	**101**	
Iron		4.92	**98**		4.94	**99**		4.92	**98**		4.90	**98**		5.00	**100**	
Manganese		0.732	**98**		0.730	**97**		0.729	**97**		0.725	**97**		0.740	**99**	

Q - %Recovery Flag * - %Recovery (%R) Outside Limits

QC ID	%R Limits	
CCV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn
ICV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn
ICV	90 - 110	**1.0** - As; **5.0** - Fe; **0.750** - Mn

Form 3

Blanks

Metals by EPA 6010D

Workorder

R2408140

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 12-Month Sampling

09/24/2024

ALS Environmental–Rochester Laboratory
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Form 3 - Blanks

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 12-Month Sampling	**R2408140**	

Metals by EPA 6010D (P)

R-ICP-AES-07_853503			ICB		CCB		CCB		CCB		CCB		
		Run Date	09/09/24		09/09/24		09/09/24		09/09/24		09/09/24		
		Run Time	16:02		18:50		19:29		20:08		20:31		
		Units	ug/L		ug/L		ug/L		ug/L		ug/L		
Analyte	DL	LOQ	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	
Arsenic	6	10	6	U	6	U	6	U	6	U	6	U	
Iron	70	100	70	U	70	U	70	U	70	U	70	U	
Manganese	4	10	4	U	4	U	4	U	4	U	4	U	

Q - Result Flag * - Result Outside Limits

right solutions.
right partner.

Analysis Run Log

Metals by EPA 6010D

Workorder

R2408140

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 12-Month Sampling

09/24/2024

ALS Environmental–Rochester Laboratory
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www.alsglobal.com

Form 14 - Analysis Run Log

Client	Civil & Environmental Consultants, Incorporated (CEC)	Workorder	
Project	Olean OU3 12-Month Sampling	**R2408140**	

Metals by EPA 6010D (P)

R-ICP-AES-07_853503	Instrument ID	Start Date	End Date
	R-ICP-AES-07	09/09/24	09/09/24

Time	Type	Sample ID	Dilution	Analytes
15:59	ICV	Initial Calibraton Verification	1	As,Fe,Mn
16:02	ICB	Initial Calibration Blank	1	As,Fe,Mn
18:47	CCV	Continuing Calibration Verification	1	As,Fe,Mn
18:50	CCB	Continuing Calibration Blank	1	As,Fe,Mn
18:54	MB	MB-R2408140-MB Method Blank	1	As,Fe,Mn
18:57	LCS	LCS-R2408140-LCS Lab Control Sample	1	As,Fe,Mn
19:00	SMPL	OLN-UA003-F009	1	As,Fe,Mn
19:03	SMPL	OLN-UA002-F009	1	As,Fe,Mn
19:07	SMPL	OLN-FB001-B009	1	As,Fe,Mn
19:10	SMPL	OLN-CW13A-F009	1	As,Fe,Mn
19:13	SMPL	OLV-CW013-F009	1	As,Fe,Mn
19:16	SMPL	OLN-EB001-E009	1	As,Fe,Mn
19:20	SMPL	OLN-FB002-B009	1	As,Fe,Mn
19:23	SMPL	OLN-18M-F009	1	As,Fe,Mn
19:26	CCV	Continuing Calibration Verification	1	As,Fe,Mn
19:29	CCB	Continuing Calibration Blank	1	As,Fe,Mn
19:32	SMPL	OLN-RU028-F009	1	As,Fe,Mn
19:36	SMPL	OLN-RU020-F009	1	As,Fe,Mn
19:39	SMPL	OLN-RU021-F009	1	As,Fe,Mn
19:42	SMPL	OLN-FD002-D009	1	As,Fe,Mn
19:45	SD	OLN-FD002-D009	5	As,Fe,Mn
20:05	CCV	Continuing Calibration Verification	1	As,Fe,Mn
20:08	CCB	Continuing Calibration Blank	1	As,Fe,Mn
20:27	CCV	Continuing Calibration Verification	1	As,Fe,Mn
20:31	CCB	Continuing Calibration Blank	1	As,Fe,Mn

right solutions.
right partner.

Preparation Log

EPA 3005A/3010A

Workorder

R2408140

Client

Civil & Environmental Consultants, Incorporated (CEC)

Project

Olean OU3 12-Month Sampling

09/24/2024

ALS Environmental–Rochester Laboratory
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Phone (585) 288-5380 Fax (585) 288-8475
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Form 13 - Preparation Log

Client Civil & Environmental Consultants, Incorporated (CEC)

Project Olean OU3 12-Month Sampling

Workorder **R2408140**

Metals by EPA 6010D (P)

Prep Batch 444305 **Prep Date** 09/05/24

	Matrix	Type	Lab Sample ID	Initial Amt mL	Final Amt mL	Client Sample ID
1	Water	MB	R2408140-MB	50	50	Method Blank
2	Water	LCS	R2408140-LCS	50	50	Lab Control Sample
3	Water	SMPL	R2408140-002	50	50	OLN-UA003-F009
4	Water	SMPL	R2408140-003	50	50	OLN-UA002-F009
5	Water	SMPL	R2408140-004	50	50	OLN-FB001-B009
6	Water	SMPL	R2408140-005	50	50	OLN-CW13A-F009
7	Water	SMPL	R2408140-006	50	50	OLV-CW013-F009
8	Water	SMPL	R2408140-007	50	50	OLN-EB001-E009
9	Water	SMPL	R2408140-008	50	50	OLN-FB002-B009
10	Water	SMPL	R2408140-009	50	50	OLN-18M-F009
11	Water	SMPL	R2408140-010	50	50	OLN-RU028-F009
12	Water	SMPL	R2408140-011	50	50	OLN-RU020-F009
13	Water	SMPL	R2408140-012	50	50	OLN-RU021-F009
14	Water	SMPL	R2408140-013	50	50	OLN-FD002-D009

General Chemistry

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 13:37
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-UA003-F009	**Basis:**	NA
Lab Code:	R2408140-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**99.2**	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	**15.1**	mg/L	2.0	0.4	10	09/14/24 17:18	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 15:25
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-UA002-F009	**Basis:**	NA
Lab Code:	R2408140-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**21.9**	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	**21.1**	mg/L	2.0	0.4	10	09/14/24 17:24	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/20/24 16:25
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FB001-B009	**Basis:**	NA
Lab Code:	R2408140-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**5.3**	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	2.0 U	mg/L	2.0	0.4	10	09/14/24 17:30	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 08:33
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-CW13A-F009	**Basis:**	NA
Lab Code:	R2408140-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**25.7**	mg/L	5.0	3.8	1	09/06/24 14:00	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 09:41
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLV-CW013-F009	**Basis:**	NA
Lab Code:	R2408140-006		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**8.3**	mg/L	5.0	3.8	1	09/06/24 14:00	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 10:15
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-EB001-E009	**Basis:**	NA
Lab Code:	R2408140-007		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**5.6**	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	2.0 U	mg/L	2.0	0.4	10	09/14/24 17:37	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 10:35
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FB002-B009	**Basis:**	NA
Lab Code:	R2408140-008		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	5.0	U	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	2.0	U	mg/L	2.0	0.4	10	09/15/24 14:36	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 11:04
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-18M-F009	**Basis:**	NA
Lab Code:	R2408140-009		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	5.0 U	mg/L	5.0	3.8	1	09/06/24 14:00	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 13:06
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU028-F009	**Basis:**	NA
Lab Code:	R2408140-010		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**5590**	mg/L	50	38	10	09/06/24 14:00	
Sulfate	300.0	**19.2**	mg/L	2.0	0.4	10	09/15/24 14:42	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/21/24 15:47
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU020-F009	**Basis:**	NA
Lab Code:	R2408140-011		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**56.3**	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	**264**	mg/L	8.0	1.6	40	09/15/24 18:13	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 08:31
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-RU021-F009	**Basis:**	NA
Lab Code:	R2408140-012		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**272**	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	**60.8**	mg/L	2.0	0.4	10	09/14/24 17:55	

Analytical Report

Client:	Civil & Environmental Consultants, Incorporated (CEC)	**Service Request:**	R2408140
Project:	Olean OU3 12-Month Sampling/300-082	**Date Collected:**	08/22/24 22:00
Sample Matrix:	Water	**Date Received:**	08/23/24 09:30
Sample Name:	OLN-FD002-D009	**Basis:**	NA
Lab Code:	R2408140-013		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chemical Oxygen Demand, Total	Hach 8000 (1979)	**284**	mg/L	5.0	3.8	1	09/06/24 14:00	
Sulfate	300.0	**62.3**	mg/L	2.0	0.4	10	09/14/24 18:02	

Analytical Results Summary

Instrument Name: R-UV-VIS-06 **Analyst:** SDUBE **Analysis Lot:** 853294 **Method/Testcode:** Hach 8000 (1979)/COD T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ2411296-01	Chemical Oxygen Demand, Total	CCV		Water	511.53 mg/L	2 mL	512 mg/L	1					9/6/24 14:00	N	II
RQ2411296-02	Chemical Oxygen Demand, Total	CCB		Water	-13.83 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	II
RQ2411296-03	Chemical Oxygen Demand, Total	LCS		Water	511.53 mg/L	2 mL	512 mg/L	1	3.8	5.0	102		9/6/24 14:00	N	II
RQ2411296-04	Chemical Oxygen Demand, Total	MB		Water	-13.83 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	II
R2408456-001	Chemical Oxygen Demand, Total	N/A		Water	104.09 mg/L	2 mL	104 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
R2408539-001	Chemical Oxygen Demand, Total	N/A		Water	120.42 mg/L	2 mL	120 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
R2408257-001	Chemical Oxygen Demand, Total	N/A		Water	151.43 mg/L	2 mL	151 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
R2408432-001	Chemical Oxygen Demand, Total	N/A		Water	713.83 mg/L	2 mL	714 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
R2408540-002	Chemical Oxygen Demand, Total	N/A		Water	234.63 mg/L	2 mL	235 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
R2408328-001	Chemical Oxygen Demand, Total	N/A		Water	3352.07 mg/L	2 mL	3350 mg/L	10	38	50			9/6/24 14:00	N	II
RQ2411296-05	Chemical Oxygen Demand, Total	CCV		Water	509.82 mg/L	2 mL	510 mg/L	1					9/6/24 14:00	N	II
RQ2411296-06	Chemical Oxygen Demand, Total	CCB		Water	-15.89 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	II
R2408454-001	Chemical Oxygen Demand, Total	N/A		Water	1820.61 mg/L	2 mL	1820 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
R2408540-001	Chemical Oxygen Demand, Total	N/A		Water	866.64 mg/L	2 mL	867 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
RQ2411296-07	Chemical Oxygen Demand, Total	MS	R2408540-001	Water	1201.31 mg/L	2 mL	1200 mg/L	1	3.8	5.0	89*		9/6/24 14:00	N	II
RQ2411296-08	Chemical Oxygen Demand, Total	DMS	R2408540-001	Water	1201.31 mg/L	2 mL	1200 mg/L	1	3.8	5.0	89*	<1	9/6/24 14:00	N	II
R2408484-002	Chemical Oxygen Demand, Total	N/A		Water	1550.73 mg/L	2 mL	1550 mg/L	10	38	50			9/6/24 14:00	N	II
R2408554-001	Chemical Oxygen Demand, Total	N/A		Water	139.39 mg/L	2 mL	139 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
RQ2411296-09	Chemical Oxygen Demand, Total	MS	R2408554-001	Water	502.98 mg/L	2 mL	503 mg/L	1	3.8	5.0	97		9/6/24 14:00	N	II
RQ2411296-10	Chemical Oxygen Demand, Total	DMS	R2408554-001	Water	504.69 mg/L	2 mL	505 mg/L	1	3.8	5.0	97	<1	9/6/24 14:00	N	II
R2408140-010	Chemical Oxygen Demand, Total	N/A		Water	5589.62 mg/L	2 mL	5590 mg/L	10	38	50			9/6/24 14:00	N	IV
R2408139-003	Chemical Oxygen Demand, Total	N/A		Water	180.92 mg/L	2 mL	181 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
RQ2411296-11	Chemical Oxygen Demand, Total	CCV		Water	508.11 mg/L	2 mL	508 mg/L	1					9/6/24 14:00	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-UV-VIS-06 **Analyst:** SDUBE **Analysis Lot:** 853294 **Method/Testcode:** Hach 8000 (1979)/COD T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2411296-12	Chemical Oxygen Demand, Total	CCB		Water	-14.86 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-UV-VIS-06 **Analyst:** SDUBE **Analysis Lot:** 853295 **Method/Testcode:** Hach 8000 (1979)/COD T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ2411298-01	Chemical Oxygen Demand, Total	CCV		Water	508.11 mg/L	2 mL	508 mg/L	1					9/6/24 14:00	N	IV
RQ2411298-02	Chemical Oxygen Demand, Total	CCB		Water	-14.86 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	IV
RQ2411298-03	Chemical Oxygen Demand, Total	LCS		Water	508.11 mg/L	2 mL	508 mg/L	1	3.8	5.0	102		9/6/24 14:00	N	IV
RQ2411298-04	Chemical Oxygen Demand, Total	MB		Water	-14.86 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	IV
R2408139-004	Chemical Oxygen Demand, Total	N/A		Water	189.68 mg/L	2 mL	190 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
R2408139-007	Chemical Oxygen Demand, Total	N/A		Water	1971.56 mg/L	2 mL	1970 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
R2408139-012	Chemical Oxygen Demand, Total	N/A		Water	837.98 mg/L	2 mL	838 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
R2408140-012	Chemical Oxygen Demand, Total	N/A		Water	272.06 mg/L	2 mL	272 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
R2408140-013	Chemical Oxygen Demand, Total	N/A		Water	284.38 mg/L	2 mL	284 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
R2408433-001	Chemical Oxygen Demand, Total	N/A		Water	283.01 mg/L	2 mL	283 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
RQ2411298-05	Chemical Oxygen Demand, Total	MS	R2408433-001	Water	656.95 mg/L	2 mL	657 mg/L	1	3.8	5.0	100		9/6/24 14:00	N	II
RQ2411298-06	Chemical Oxygen Demand, Total	DMS	R2408433-001	Water	654.97 mg/L	2 mL	655 mg/L	1	3.8	5.0	99	<1	9/6/24 14:00	N	II
R2408713-001	Chemical Oxygen Demand, Total	N/A		Water	97.18 mg/L	2 mL	97.2 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
RQ2411298-07	Chemical Oxygen Demand, Total	CCV		Water	509.82 mg/L	2 mL	510 mg/L	1					9/6/24 14:00	N	II
RQ2411298-08	Chemical Oxygen Demand, Total	CCB		Water	-13.83 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-UV-VIS-06 **Analyst:** SDUBE **Analysis Lot:** 853296 **Method/Testcode:** Hach 8000 (1979)/COD T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ2411300-01	Chemical Oxygen Demand, Total	CCV		Water	51.13 mg/L	2 mL	51.1 mg/L	1					9/6/24 14:00	N	II
RQ2411300-02	Chemical Oxygen Demand, Total	CCB		Water	3.64 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	II
RQ2411300-03	Chemical Oxygen Demand, Total	LCS		Water	51.13 mg/L	2 mL	51.1 mg/L	1	3.8	5.0	102		9/6/24 14:00	N	II
RQ2411300-04	Chemical Oxygen Demand, Total	MB		Water	3.64 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	II
R2408454-002	Chemical Oxygen Demand, Total	N/A		Water	74.99 mg/L	2 mL	75.0 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
R2408474-001	Chemical Oxygen Demand, Total	N/A		Water	11.51 mg/L	2 mL	11.5 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
R2408599-005	Chemical Oxygen Demand, Total	N/A		Water	2.62 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	IV
R2408541-001	Chemical Oxygen Demand, Total	N/A		Water	88.74 mg/L	2 mL	88.7 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
R2408139-001	Chemical Oxygen Demand, Total	N/A		Water	8.61 mg/L	2 mL	8.6 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
R2408139-002	Chemical Oxygen Demand, Total	N/A		Water	-0.48 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	IV
RQ2411300-05	Chemical Oxygen Demand, Total	CCV		Water	51.37 mg/L	2 mL	51.4 mg/L	1					9/6/24 14:00	N	IV
RQ2411300-06	Chemical Oxygen Demand, Total	CCB		Water	1.25 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	IV
R2408139-005	Chemical Oxygen Demand, Total	N/A		Water	9.26 mg/L	2 mL	9.3 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
R2408139-008	Chemical Oxygen Demand, Total	N/A		Water	5.98 mg/L	2 mL	6.0 mg/L	1	3.8	5.0			9/6/24 14:00	Y	IV
RQ2411300-07	Chemical Oxygen Demand, Total	MS	R2408139-008	Water	30.82 mg/L	2 mL	30.8 mg/L	1	3.8	5.0	99		9/6/24 14:00	N	IV
RQ2411300-08	Chemical Oxygen Demand, Total	DMS	R2408139-008	Water	29.15 mg/L	2 mL	29.1 mg/L	1	3.8	5.0	93	6	9/6/24 14:00	N	IV
R2408453-001	Chemical Oxygen Demand, Total	N/A		Water	24.29 mg/L	2 mL	24.3 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
R2408139-010	Chemical Oxygen Demand, Total	N/A		Water	47.50 mg/L	2 mL	47.5 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
R2408139-013	Chemical Oxygen Demand, Total	N/A		Water	0.22 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	IV
R2408140-002	Chemical Oxygen Demand, Total	N/A		Water	99.24 mg/L	2 mL	99.2 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
R2408140-003	Chemical Oxygen Demand, Total	N/A		Water	21.95 mg/L	2 mL	21.9 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
RQ2411300-11	Chemical Oxygen Demand, Total	CCV		Water	47.25 mg/L	2 mL	47.3 mg/L	1					9/6/24 14:00	N	IV
RQ2411300-12	Chemical Oxygen Demand, Total	CCB		Water	-1.87 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-UV-VIS-06 **Analyst:** SDUBE **Analysis Lot:** 853296 **Method/Testcode:** Hach 8000 (1979)/COD T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R2408140-004	Chemical Oxygen Demand, Total	N/A		Water	5.32 mg/L	2 mL	5.3 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
R2408140-005	Chemical Oxygen Demand, Total	N/A		Water	25.74 mg/L	2 mL	25.7 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
R2408140-006	Chemical Oxygen Demand, Total	N/A		Water	8.29 mg/L	2 mL	8.3 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
R2408140-007	Chemical Oxygen Demand, Total	N/A		Water	5.65 mg/L	2 mL	5.6 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
RQ2411300-13	Chemical Oxygen Demand, Total	MS	R2408140-007	Water	30.54 mg/L	2 mL	30.5 mg/L	1	3.8	5.0	100		9/6/24 14:00	N	IV
RQ2411300-14	Chemical Oxygen Demand, Total	DMS	R2408140-007	Water	29.15 mg/L	2 mL	29.1 mg/L	1	3.8	5.0	94	5	9/6/24 14:00	N	IV
R2408140-008	Chemical Oxygen Demand, Total	N/A		Water	2.28 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	IV
R2408140-009	Chemical Oxygen Demand, Total	N/A		Water	2.96 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	IV
R2408140-011	Chemical Oxygen Demand, Total	N/A		Water	56.29 mg/L	2 mL	56.3 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
RQ2411300-15	Chemical Oxygen Demand, Total	CCV		Water	52.08 mg/L	2 mL	52.1 mg/L	1					9/6/24 14:00	N	IV
RQ2411300-16	Chemical Oxygen Demand, Total	CCB		Water	2.62 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	IV

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Analytical Results Summary

Instrument Name: R-UV-VIS-06 **Analyst:** SDUBE **Analysis Lot:** 853297 **Method/Testcode:** Hach 8000 (1979)/COD T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ2411301-01	Chemical Oxygen Demand, Total	CCV		Water	52.08 mg/L	2 mL	52.1 mg/L	1					9/6/24 14:00	N	II
RQ2411301-02	Chemical Oxygen Demand, Total	CCB		Water	2.62 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	II
RQ2411301-03	Chemical Oxygen Demand, Total	LCS		Water	52.08 mg/L	2 mL	52.1 mg/L	1	3.8	5.0	104		9/6/24 14:00	N	II
RQ2411301-04	Chemical Oxygen Demand, Total	MB		Water	2.62 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	II
R2408604-001	Chemical Oxygen Demand, Total	N/A		Water	47.74 mg/L	2 mL	47.7 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
R2408613-001	Chemical Oxygen Demand, Total	N/A		Water	11.51 mg/L	2 mL	11.5 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
RQ2411301-05	Chemical Oxygen Demand, Total	MS	R2408613-001	Water	35.18 mg/L	2 mL	35.2 mg/L	1	3.8	5.0	95		9/6/24 14:00	N	II
RQ2411301-06	Chemical Oxygen Demand, Total	DMS	R2408613-001	Water	31.92 mg/L	2 mL	31.9 mg/L	1	3.8	5.0	82*	10	9/6/24 14:00	N	II
R2408639-004	Chemical Oxygen Demand, Total	N/A		Water	198.63 mg/L	2 mL	199 mg/L	10	38	50			9/6/24 14:00	N	II
R2408376-001	Chemical Oxygen Demand, Total	N/A		Water	31.09 mg/L	2 mL	31.1 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
R2408212-001	Chemical Oxygen Demand, Total	N/A		Water	1.94 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	IV
R2408212-002	Chemical Oxygen Demand, Total	N/A		Water	16.21 mg/L	2 mL	16.2 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
R2408212-003	Chemical Oxygen Demand, Total	N/A		Water	4.65 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	IV
R2408212-004	Chemical Oxygen Demand, Total	N/A		Water	3.98 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	IV
RQ2411301-07	Chemical Oxygen Demand, Total	CCV		Water	52.08 mg/L	2 mL	52.1 mg/L	1					9/6/24 14:00	N	IV
RQ2411301-08	Chemical Oxygen Demand, Total	CCB		Water	0.56 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	IV
R2408212-005	Chemical Oxygen Demand, Total	N/A		Water	6.31 mg/L	2 mL	6.3 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
R2408212-007	Chemical Oxygen Demand, Total	N/A		Water	5.65 mg/L	2 mL	5.6 mg/L	1	3.8	5.0			9/6/24 14:00	N	IV
RQ2411301-09	Chemical Oxygen Demand, Total	MS	R2408212-007	Water	31.09 mg/L	2 mL	31.1 mg/L	1	3.8	5.0	102		9/6/24 14:00	N	IV
RQ2411301-10	Chemical Oxygen Demand, Total	DMS	R2408212-007	Water	30.26 mg/L	2 mL	30.3 mg/L	1	3.8	5.0	98	3	9/6/24 14:00	N	IV
R2408212-008	Chemical Oxygen Demand, Total	N/A		Water	2.96 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	IV
R2408212-009	Chemical Oxygen Demand, Total	N/A		Water	4.98 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	IV
R2408212-010	Chemical Oxygen Demand, Total	N/A		Water	0.56 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	Y	IV

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Analytical Results Summary

Instrument Name: R-UV-VIS-06 **Analyst:** SDUBE **Analysis Lot:** 853297 **Method/Testcode:** Hach 8000 (1979)/COD T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ2411301-11	Chemical Oxygen Demand, Total	MS	R2408212-010	Water	25.45 mg/L	2 mL	25.4 mg/L	1	3.8	5.0	102		9/6/24 14:00	N	IV
RQ2411301-12	Chemical Oxygen Demand, Total	DMS	R2408212-010	Water	25.45 mg/L	2 mL	25.4 mg/L	1	3.8	5.0	102	<1	9/6/24 14:00	N	IV
R2408212-011	Chemical Oxygen Demand, Total	N/A		Water	4.31 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	IV
RQ2411301-13	Chemical Oxygen Demand, Total	CCV		Water	50.41 mg/L	2 mL	50.4 mg/L	1					9/6/24 14:00	N	II
RQ2411301-14	Chemical Oxygen Demand, Total	CCB		Water	2.96 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	II
R2408430-001	Chemical Oxygen Demand, Total	N/A		Water	14.35 mg/L	2 mL	14.4 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
R2408431-001	Chemical Oxygen Demand, Total	N/A		Water	42.75 mg/L	2 mL	42.8 mg/L	1	3.8	5.0			9/6/24 14:00	N	II
~~R2408433-002~~	~~Chemical Oxygen Demand, Total~~	~~N/A~~		~~Water~~	~~109.62 mg/L~~	~~2 mL~~	~~110 mg/L~~	~~1~~	~~3.8~~	~~5.0~~			9/6/24 14:00	N	II
RQ2411301-15	Chemical Oxygen Demand, Total	CCV		Water	49.20 mg/L	2 mL	49.2 mg/L	1					9/6/24 14:00	N	II
RQ2411301-16	Chemical Oxygen Demand, Total	CCB		Water	2.62 mg/L	2 mL	5.0 mg/L U	1	3.8	5.0			9/6/24 14:00	N	II

OK 9/11/24

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Sample Dilutions

Final Volume: 8-10mL - COD

Analyst: SD
Instrument: R-UV-VIS-06

Date 9/16/24
Analysis COD

Common Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution factor	mL's of Sample	mL's of Diluent	Dilution Factor
1/2		4	4	1/2												
1/3		3	6	1/3												
1/4		2	6	1/4												
1/5		2	8	1/5												
1/10		1	9	1/10												
1/20		1	1	1/2	1	9	1/20									
1/30		3	6	1/3	1	9	1/30									
1/40		1	3	1/4	1	9	1/40									
1/50		1	4	1/5	1	9	1/50									
1/100		1	9	1/10	1	9	1/100									
1/200		1	1	1/2	1	9	1/20	1	9	1/200						
1/300		3	6	1/3	1	9	1/30	1	9	1/300						
1/400		1	3	1/4	1	9	1/40	1	9	1/400						
1/500		1	4	1/5	1	9	1/50	1	9	1/500						
1/1000		1	9	1/10	1	9	1/100	1	9	1/1000						
1/2000		1	1	1/2	1	9	1/20	1	9	1/200	1	9	1/2000			
1/3000		3	6	1/3	1	9	1/30	1	9	1/300	1	9	1/3000			
1/4000		1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000			
1/10000		1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000			
1/20000		1	1	1/2	1	9	1/20	1	9	1/200	1	9	1/2000	1	9	1/20000
1/40000		1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000	1	9	1/40000
1/100000		1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000	1	9	1/100000

Special Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor
1/10	DI	1	9	1/10												

Analyte: Chemical Oxygen Demand
Method: 410.4 Manual Colorimetric
Spectrophotometer: MR21D

Analyst: SD
Date: 9/6/2024
Time: 14:00
Pipette(s): MAGNUS/HULK

Calibration: DOD Pipette Verification: N/A

Std	Conc.	% T.	Log % T.	mg/l
1	2000	14.8	1.170	1957.520
2	1500	22.2	1.346	1539.149
3	900	40.3	1.605	923.912
4	500	60.1	1.779	511.533
5	200	81.1	1.909	202.322
6	100	90.4	1.956	90.305
7	50	95.0	1.978	39.093
8	0	100.0	2.000	-13.833
9				
10				

Block 3 = 150°C. Verified Annually

	Therm ID
COD Block 1	464
COD Block 2	465

Run Vial Lot #: 235608
Run Vial Check Date: 9/4/2024
Calibration Vial Lot #: 229115
C.C = -0.9994323 %RE low 21.8
y-int. = 1.9941776 %RE mid 2.6
Slope: -0.0004209
Wavelength: 620
Curve Date: 7/16/2024
Last LCR Verif: 7/16/2024 (due 6 months)

	1	2	3
Start Time:	12:00		
End Time:	14:00		
Block 1 (°C):	150		
Block 2 (°C):	150		

Block ID	Vial ID	Misc.	Order #	% T.	Log % T.	Result mg/L	Dilution	Final Result	Comments
		TV=500	ICV	60.4	1.781	506.3952	1.00	506.395	101.3
			ICB	100.0	2.000	-13.8332	1.00	-13.833	SDU
1	1	TV=500	CCV/LCS	60.1	1.779	511.5330	1.00	511.533	102.3
1	2		CCB/MB	100.0	2.000	-13.8332	1.00	-13.833	SDU
1	3		R2408456-001	89.2	1.950	104.0936	1.00	104.094	
1	4		R2408539-001	87.8	1.943	120.4166	1.00	120.417	
1	5		R2408257-001	85.2	1.930	151.4335	1.00	151.433	
1	6		R2408432-001	49.4	1.694	713.8327	1.00	713.833	
1	7	RAN LL	R2408454-002	88.9	1.949	107.5697	1.00	107.570	
1	8	RAN LL	R2408474-001	98.5	1.993	1.7615	1.00	1.761	
1	9	RAN LL	R2408599-005	99.8	1.999	-11.7675	1.00	-11.768	
1	10		R2408540-002	78.6	1.895	234.6295	1.00	234.630	
1	11	RAN LL	R2408541-001	90.7	1.958	86.8865	1.00	86.886	
1	12		R2408328-001	71.3	1.853	335.2074	10.00	3352.074	
1	13	TV=500	CCV/LCS	60.2	1.780	509.8176	1.00	509.818	102.0
1	14		CCB/MB	100.2	2.001	-15.8948	1.00	-15.895	SDU
2	15		R2408454-001	16.9	1.228	1820.6101	1.00	1820.610	
2	16		R2408540-001	42.6	1.629	866.6426	1.00	866.643	
2	17		R2408540-001 MS	30.8	1.489	1201.3054	1.00	1201.305	
2	18		R2408540-001 DMS	30.8	1.489	1201.3054	1.00	1201.305	
2	19		R2408484-002	84.9	1.929	155.0731	10.00	1550.731	
2	20		R2408554-001	86.2	1.936	139.3933	1.00	139.393	
2	21		R2408554-001 MS	60.6	1.782	502.9842	1.00	502.984	
2	22		R2408554-001 DMS	60.5	1.782	504.6883	1.00	504.688	
2	23		R2408140-010	57.4	1.759	558.9615	10.00	5589.615	
2	24		R2408139-003	82.8	1.918	180.9163	1.00	180.916	
2	25	TV=500	CCV/LCS	60.3	1.780	508.1050	1.00	508.105	101.6
2	26		CCB/MB	100.1	2.000	-14.8645	1.00	-14.865	SDU
2	27		R2408139-004	82.1	1.914	189.6766	1.00	189.677	
2	28		R2408139-007	14.6	1.164	1971.5584	1.00	1971.558	
2	29		R2408139-012	43.8	1.641	837.9788	1.00	837.979	
2	30		R2408140-012	75.8	1.880	272.0575	1.00	272.057	
2	31		R2408140-013	74.9	1.874	284.3821	1.00	284.382	
2	32		R2408433-001	75.0	1.875	283.0054	1.00	283.005	
2	33		R2408433-001 MS	52.2	1.718	656.9459	1.00	656.946	
2	34		R2408433-001 DMS	52.3	1.719	654.9711	1.00	654.971	

Analyte: Chemical Oxygen Demand
Method: 410.4 Manual Colorimetric
Spectrophotometer: MR21D

Analyst: SD
Date: 9/6/2024
Time: 14:00
Pipette(s): MAGNUS/HULK

Calibration: DOD Pipette Verification: N/A

Std	Conc.	% T.	Log % T.	mg/l
1	2000	14.8	1.170	1957.520
2	1500	22.2	1.346	1539.149
3	900	40.3	1.605	923.912
4	500	60.1	1.779	511.533
5	200	81.1	1.909	202.322
6	100	90.4	1.956	90.305
7	50	95.0	1.978	39.093
8	0	100.0	2.000	-13.833
9				
10				

Block 3 = 150°C. Verified Annually

	Therm ID
COD Block 1	464
COD Block 2	465

Run Vial Lot #: 235608
Run Vial Check Date: 9/4/2024
Calibration Vial Lot #: 229115
C.C = -0.9994323 %RE low 21.8
y-int. = 1.9941776 %RE mid 2.6
Slope: -0.0004209
Wavelength: 620
Curve Date: 7/16/2024
Last LCR Verif: 7/16/2024 (due 6 months)

	1	2	3
Start Time:	12:00		
End Time:	14:00		
Block 1 (°C):	150		
Block 2 (°C):	150		

Block ID	Vial ID	Misc.	Order #	% T.	Log % T.	Result mg/L	Dilution	Final Result	Comments
2	35	RAN LL	R2408140-002	89.2	1.950	104.0936	1.00	104.094	
2	36		R2408713-001	89.8	1.953	97.1763	1.00	97.176	
2	37	TV=500	CCV/LCS	60.2	1.780	509.8176	1.00	509.818	102.0
2	38		CCB/MB	100.0	2.000	-13.8332	1.00	-13.833	5021

Analyte: Chemical Oxygen Demand
Method: 410.4 Manual Colorimetric
Spectrophotometer: MR21D

Analyst: SD
Date: 9/6/2024
Time: 14:00
Pipette(s): MAGNUS/HULK
DOD Pipette Verification: N/A

Therm ID
COD Block 1: 464
COD Block 2: 465

Run Vial Lot #: 236128
Date of Run Lot Check: 9/6/2024
Calibration Vial Lot: 229608

Calibration:

Std	Conc.	% T.	Log % T.	mg/l
1	100	82.1	1.914	100.078
2	70	66.2	1.821	70.494
3	40	52.8	1.723	39.410
4	20	45.5	1.658	18.960
5	10	42.8	1.631	10.552
6	5	40.9	1.612	4.312
7	2	40.2	1.604	1.939
8	0	40.0	1.602	1.254
9				
10				

Block 3 = 150°C Verified annually

C.C = 0.999786 %RE low 13.8
y-int. = 1.598098 %RE mid 0.7
Slope: 0.003160
Wavelength: 420
Curve Date: 7/16/2024
Last LCR Verif: 7/16/2024 (due 6 months)

	1	2	3
Start Time:	12:00		
End Time:	14:00		
Block 1 (°C):	150		
Block 2 (°C):			

Block ID	Vial ID	Misc.	Order #	% T.	Log % T.	Result mg/L	Dilution	Final Result mg/L	Comments
		TV=50	ICV	56.9	1.755	49.6884	1.00	49.688	99.4
			ICB	40.0	1.602	1.2537	1.00	1.254	
3	1		CCV/LCS	57.5	1.760	51.1300	1.00	51.130	102.3
3	2		CCB/MB	40.7	1.610	3.6381	1.00	3.638	
3	3	RAN HL	R2408539-001	87.3	1.941	108.5186	1.00	108.519	Repeat
3	4	RAN HL	R2408257-001	109.8	2.041	140.0341	1.00	140.034	Repeat
3	5		R2408454-002	68.4	1.835	74.9873	1.00	74.987	
3	6		R2408474-001	43.1	1.634	11.5124	1.00	11.512	
3	7		R2408599-005	40.4	1.606	2.6213	1.00	2.621	
3	8		R2408541-001	75.6	1.879	88.7424	1.00	88.742	
3	9		R2408139-001	42.2	1.625	8.6122	1.00	8.612	
3	10		R2408139-002	39.5	1.597	-0.4751	1.00	-0.475	
3	11	RAN HL	R2408139-003	115.3	2.062	146.7515	1.00	146.752	Repeat
3	12	RAN HL	R2408139-004	116.7	2.067	148.4103	1.00	148.410	Repeat
3	13		CCV/LCS	57.6	1.760	51.3688	1.00	51.369	102.7
3	14		CCB/MB	40.0	1.602	1.2537	1.00	1.254	
3	15		R2408139-005	42.4	1.627	9.2620	1.00	9.262	
3	16		R2408139-008	41.4	1.617	5.9817	1.00	5.982	
3	17		R2408139-008 MS!	49.6	1.695	30.8178	1.00	30.818	
3	18		R2408139-008 DMS!	49.0	1.690	29.1451	1.00	29.145	
3	19		R2408453-001	47.3	1.675	24.2923	1.00	24.292	
3	20		R2408139-010	56.0	1.748	47.4972	1.00	47.497	
3	21	RAN HL	R2408139-012	159.4	2.202	191.2642	1.00	191.264	Repeat
3	22		R2408139-013	39.7	1.599	0.2191	1.00	0.219	
3	23		R2408140-002	81.6	1.912	99.2388	1.00	99.239	
3	24		R2408140-003	46.5	1.667	21.9479	1.00	21.948	
3	25		CCV/LCS	55.9	1.747	47.2515	1.00	47.252	94.5
3	26		CCB/MB	39.1	1.592	-1.8739	1.00	-1.874	
3	27		R2408140-004	41.2	1.615	5.3162	1.00	5.316	
3	28		R2408140-005	47.8	1.679	25.7374	1.00	25.737	
3	29		R2408140-006	42.1	1.624	8.2861	1.00	8.286	
3	30		R2408140-007	41.3	1.616	5.6494	1.00	5.649	
3	31		R2408140-007 MS	49.5	1.695	30.5404	1.00	30.540	
3	32		R2408140-007 DMS	49.0	1.690	29.1451	1.00	29.145	
3	33		R2408140-008	40.3	1.605	2.2807	1.00	2.281	

Analyte: Chemical Oxygen Demand
Method: 410.4 Manual Colorimetric
Spectrophotometer: MR21D

Analyst: SD
Date: 9/6/2024
Time: 14:00
Pipette(s): MAGNUS/HULK

Therm ID
COD Block 1: 464
COD Block 2: 465

Run Vial Lot #: 236128
Date of Run Lot Check: 9/6/2024
Calibration Vial Lot: 229608

Calibration: DOD Pipette Verification: N/A

Std	Conc.	% T.	Log % T.	mg/l
1	100	82.1	1.914	100.078
2	70	66.2	1.821	70.494
3	40	52.8	1.723	39.410
4	20	45.5	1.658	18.960
5	10	42.8	1.631	10.552
6	5	40.9	1.612	4.312
7	2	40.2	1.604	1.939
8	0	40.0	1.602	1.254
9				
10				

Block 3 = 150°C Verified annually

C.C = 0.999786 %RE low 13.8
y-int. = 1.598098 %RE mid 0.7
Slope: 0.003160
Wavelength: 420
Curve Date: 7/16/2024
Last LCR Verif: 7/16/2024 (due 6 months)

	1	2	3
Start Time:	12:00		
End Time:	14:00		
Block 1 (°C):	150		
Block 2 (°C):			

Block ID	Vial ID	Misc.	Order #	% T.	Log % T.	Result mg/L	Dilution	Final Result mg/L	Comments
3	34		R2408140-009	40.5	1.607	2.9610	1.00	2.961	
3	35		R2408140-011	59.7	1.776	56.2904	1.00	56.290	
3	36	RAN HL	R2408140-013	158.9	2.201	190.8325	1.00	190.832	Repeat
3	37		CCV/LCS	57.9	1.763	52.0828	1.00	52.083	104.2
3	38		CCB/MB	40.4	1.606	2.6213	1.00	2.621	
3	39		R2408604-001	56.1	1.749	47.7424	1.00	47.742	
3	40		R2408613-001	43.1	1.634	11.5124	1.00	11.512	
3	41		R2408613-001 MS	51.2	1.709	35.1812	1.00	35.181	
3	42		R2408613-001 DMS	50.0	1.699	31.9217	1.00	31.922	
3	43		R2408639-004	45.8	1.661	19.8632	10.00	198.632	
3	44		R2408376-001	49.7	1.696	31.0946	1.00	31.095	
3	45		R2408212-001	40.2	1.604	1.9392	1.00	1.939	
3	46		R2408212-002	44.6	1.649	16.2143	1.00	16.214	
3	47		R2408212-003	41.0	1.613	4.6474	1.00	4.647	
3	48		R2408212-004	40.8	1.611	3.9753	1.00	3.975	
3	49		CCV/LCS	57.9	1.763	52.0828	1.00	52.083	104.2
3	50		CCB/MB	39.8	1.600	0.5648	1.00	0.565	
3	51		R2408212-005	41.5	1.618	6.3133	1.00	6.313	
3	52		R2408212-007	41.3	1.616	5.6494	1.00	5.649	
3	53		R2408212-007 MS	49.7	1.696	31.0946	1.00	31.095	
3	54		R2408212-007 DMS	49.4	1.694	30.2625	1.00	30.262	
3	55		R2408212-008	40.5	1.607	2.9610	1.00	2.961	
3	56		R2408212-009	41.1	1.614	4.9822	1.00	4.982	
1	57		R2408212-010	39.8	1.600	0.5648	1.00	0.565	
1	58		R2408212-010 MS!	47.7	1.679	25.4496	1.00	25.450	
1	59		R2408212-010 DMS!	47.7	1.679	25.4496	1.00	25.450	
1	60		R2408212-011	40.9	1.612	4.3118	1.00	4.312	
1	61		CCV/LCS	57.2	1.757	50.4111	1.00	50.411	100.8
1	62		CCB/MB	40.5	1.607	2.9610	1.00	2.961	
1	63		R2408430-001	44.0	1.643	14.3528	1.00	14.353	
1	64		R2408431-001	54.1	1.733	42.7532	1.00	42.753	
1	65	NEED HL	R2408433-002	88.0	1.944	109.6162	1.00	109.616	Repeat
1	66		CCV/LCS	56.7	1.754	49.2045	1.00	49.204	98.4
1	67		CCB/MB	40.4	1.606	2.6213	1.00	2.621	
1	68		LOT CHECK	48.0	1.681	26.3113	1.00	26.311	

ALS Environmental
1565 Jefferson Rd., Rochester, NY 14623

General Chemistry Analytical Run Cover Sheet

Analyst: SD Date: 9/6/24

Analysis: COD High-Level Instrument: (R-UV-VIS-06) Milton-Roy Spec 21D

PRIMARY STOCKS	Log # Prep/Exp. Dates	Reagent	Weight (g)	Final Vol. (mLs)	Conc. (mg/L
Standard *	**236296** **Prep: 7/16/2024** **Expires: 2/11/2025**	KHP 210662 Exp: 2/11/2025	8.5034	1000	10,000 (A)
Reference *	**236319** **Prep: 7/16/2024** **Expires: 7/16/2025**	KHP 236315 Exp: 6/21/2027	4.2517	1000	5,000 (B)

Working Stock Prep	Serial Dilutions**			
	Stock Soln (mLs)	Stock Soln (mg/L)	Final Volume (mLs)	True Value (mg/L)
Reference	1	5,000	10	500 (D)

Quality Control					
	ICV/CCV/LCS	2.00	500 (D)	2	500
	MS/DMS	0.375	10,000 (A)	10	375

Standard Curve Prep	Concentration (mg/L)	mLs DI Water	mLs 10,000 mg/L Stock (A)
	2000.00	8.00	2.00
	1500.00	8.50	1.50
	900.00	9.10	0.90
	500.00	9.50	0.5
	200.000	9.80	0.2
	100.000	9.90	0.1
	50.000	1/10 dil'n of 500 mg/L Std.	

Comments:

For Standard Curve: Add 2.0 mL of each standard to a High Level COD vial
For ICV/CCV/LCS: Add 2.0 mL of Reference (D) to a High Level COD vial
For MS: Add 2.0 mL of the 10 mL solution to a High Level COD vial

** Prepare fresh daily

ALS Environmental
1565 Jefferson Rd., Rochester, NY 14623

General Chemistry Analytical Run Cover Sheet

Analyst: SD Date: 9/6/24

Analysis: COD Low-Level Instrument: (R-UV-VIS-06) Milton-Roy Spec 21D

PRIMARY STOCKS	Log # Prep/Exp. Dates	Reagent	Weight (g)	Final Vol. (mLs)	Conc. (mg/L
Standard *	**236296** **Prep: 7/16/2024** **Expires: 2/11/2025**	KHP 210662 Exp: 2/11/2025	8.5034	1000	10,000 (A)
Reference *	**236319** **Prep: 7/16/2024** **Expires: 7/16/2025**	KHP 236315 Exp: 6/21/2027	4.2517	1000	5,000 (B)

Working Stock Prep	Serial Dilutions**			
	Stock Soln (mLs)	Stock Soln (mg/L)	Final Volume (mLs)	True Value (mg/L)
Standard	1	10,000	10	1000 (C)
Reference	1	5,000	100	50 (D)

Quality Control				
ICV/CCV/LCS	2.00	50 (D)	2	50.00
MS/DMS	0.25	1000 (C)	10	0.25

Standard Curve Prep	Concentration (mg/L)	mLs DI Water	mLs 1000 mg/L Working Stock (C)
	100.00	9.00	1.00
	70.00	9.30	0.70
	40.00	9.60	0.40
	20.00	9.8	0.2
	10.000	9.9	0.1
	5.000	9.95	0.05
	2.000	9.98	0.02

Comments:

For Standard Curve: Add 2.0 mL of each standard to a Low Level COD vial
For ICV/CCV/LCS: Add 2.0 mL of Reference (D) to a Low Level COD vial
For MS: Add 2.0 mL of the 10 mL solution to a Low Level COD vial

** Prepare fresh daily

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 854192 **Method/Testcode:** 300.0/NO3

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ2411609-01	Nitrate as Nitrogen	CCV		Liquid	2.00 mg/L	10 mL	2.00 mg/L	1					9/14/24 07:09:24	N	II
RQ2411609-01	Nitrite as Nitrogen	CCV		Liquid	2.08 mg/L	10 mL	2.08 mg/L	1					9/14/24 07:09:24	N	II
RQ2411609-01	Sulfate	CCV		Liquid	4.20 mg/L	10 mL	4.20 mg/L	1					9/14/24 07:09:24	N	II
RQ2411609-02	Nitrate as Nitrogen	CCB		Liquid	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			9/14/24 07:15:42	N	II
RQ2411609-02	Nitrite as Nitrogen	CCB		Liquid	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			9/14/24 07:15:42	N	II
RQ2411609-02	Sulfate	CCB		Liquid	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/14/24 07:15:42	N	II
RQ2411609-03	Nitrate as Nitrogen	MB		Liquid	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			9/14/24 07:15:42	N	II
RQ2411609-03	Nitrite as Nitrogen	MB		Liquid	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			9/14/24 07:15:42	N	II
RQ2411609-03	Sulfate	MB		Liquid	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/14/24 07:15:42	N	II
RQ2411609-04	Nitrate as Nitrogen	LCS		Liquid	1.03 mg/L	10 mL	1.03 mg/L	1	0.02	0.10	103		9/14/24 07:27:18	N	II
RQ2411609-04	Nitrite as Nitrogen	LCS		Liquid	1.03 mg/L	10 mL	1.03 mg/L	1	0.02	0.10	103		9/14/24 07:27:18	N	II
RQ2411609-04	Sulfate	LCS		Liquid	2.10 mg/L	10 mL	2.10 mg/L	1	0.04	0.20	105		9/14/24 07:27:18	N	II
R2409018-003	Nitrate as Nitrogen	N/A		Liquid	0.44 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/14/24 07:48:05	Y	II
R2409018-003	Nitrite as Nitrogen	N/A		Liquid	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/14/24 07:48:05	Y	II
R2409018-003	Sulfate	N/A		Liquid	8.53 mg/L	10 mL	8.5 mg/L	10	0.4	2.0			9/14/24 07:48:05	Y	II
RQ2411609-09	Nitrate as Nitrogen	MS	R2409018-003	Liquid	10.05 mg/L	10 mL	10.1 mg/L	10	0.2	1.0	101		9/14/24 07:54:21	N	II
RQ2411609-09	Nitrite as Nitrogen	MS	R2409018-003	Liquid	9.74 mg/L	10 mL	9.7 mg/L	10	0.2	1.0	97		9/14/24 07:54:21	N	II
RQ2411609-09	Sulfate	MS	R2409018-003	Liquid	27.70 mg/L	10 mL	27.7 mg/L	10	0.4	2.0	96		9/14/24 07:54:21	N	II
RQ2411609-10	Nitrate as Nitrogen	DMS	R2409018-003	Liquid	10.05 mg/L	10 mL	10.0 mg/L	10	0.2	1.0	100	<1	9/14/24 08:00:36	N	II
RQ2411609-10	Nitrite as Nitrogen	DMS	R2409018-003	Liquid	9.75 mg/L	10 mL	9.8 mg/L	10	0.2	1.0	98	<1	9/14/24 08:00:36	N	II
RQ2411609-10	Sulfate	DMS	R2409018-003	Liquid	27.53 mg/L	10 mL	27.5 mg/L	10	0.4	2.0	95	<1	9/14/24 08:00:36	N	II
R2409018-006	Nitrate as Nitrogen	N/A		Liquid	0.47 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/14/24 08:06:52	N	II
R2409018-006	Nitrite as Nitrogen	N/A		Liquid	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/14/24 08:06:52	N	II
R2409018-006	Sulfate	N/A		Liquid	9.23 mg/L	10 mL	9.2 mg/L	10	0.4	2.0			9/14/24 08:06:52	N	II
R2409018-009	Nitrate as Nitrogen	N/A		Liquid	0.50 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/14/24 08:13:07	N	II
R2409018-009	Nitrite as Nitrogen	N/A		Liquid	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/14/24 08:13:07	N	II
R2409018-009	Sulfate	N/A		Liquid	8.59 mg/L	10 mL	8.6 mg/L	10	0.4	2.0			9/14/24 08:13:07	N	II
R2409018-012	Nitrate as Nitrogen	N/A		Liquid	0.41 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/14/24 08:19:22	N	II
R2409018-012	Nitrite as Nitrogen	N/A		Liquid	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/14/24 08:19:22	N	II
R2409018-012	Sulfate	N/A		Liquid	5.97 mg/L	10 mL	6.0 mg/L	10	0.4	2.0			9/14/24 08:19:22	N	II
R2409018-014	Nitrate as Nitrogen	N/A		Liquid	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/14/24 08:25:37	N	II
R2409018-014	Nitrite as Nitrogen	N/A		Liquid	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/14/24 08:25:37	N	II
R2409018-014	Sulfate	N/A		Liquid	11.47 mg/L	10 mL	11.5 mg/L	10	0.4	2.0			9/14/24 08:25:37	N	II
R2409018-016	Nitrate as Nitrogen	N/A		Liquid	0.98 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/14/24 08:31:52	N	II
R2409018-016	Nitrite as Nitrogen	N/A		Liquid	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/14/24 08:31:52	N	II
R2409018-016	Sulfate	N/A		Liquid	8.82 mg/L	10 mL	8.8 mg/L	10	0.4	2.0			9/14/24 08:31:52	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 854192 **Method/Testcode:** 300.0/NO3

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2409018-018	Nitrate as Nitrogen	N/A		Liquid	0.63 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/14/24 08:38:08	N	II
2409018-018	Nitrite as Nitrogen	N/A		Liquid	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/14/24 08:38:08	N	II
2409018-018	Sulfate	N/A		Liquid	10.25 mg/L	10 mL	10.2 mg/L	10	0.4	2.0			9/14/24 08:38:08	N	II
2Q2411609-05	Nitrate as Nitrogen	CCV		Liquid	1.97 mg/L	10 mL	1.97 mg/L	1					9/14/24 08:44:23	N	II
2Q2411609-05	Nitrite as Nitrogen	CCV		Liquid	2.08 mg/L	10 mL	2.08 mg/L	1					9/14/24 08:44:23	N	II
2Q2411609-05	Sulfate	CCV		Liquid	4.01 mg/L	10 mL	4.01 mg/L	1					9/14/24 08:44:23	N	II
2Q2411609-06	Nitrate as Nitrogen	CCB		Liquid	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			9/14/24 08:50:39	N	II
2Q2411609-06	Nitrite as Nitrogen	CCB		Liquid	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			9/14/24 08:50:39	N	II
2Q2411609-06	Sulfate	CCB		Liquid	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/14/24 08:50:39	N	II
2409018-020	Nitrate as Nitrogen	N/A		Liquid	0.63 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/14/24 08:56:53	N	II
2409018-020	Nitrite as Nitrogen	N/A		Liquid	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/14/24 08:56:53	N	II
2409018-020	Sulfate	N/A		Liquid	10.25 mg/L	10 mL	10.3 mg/L	10	0.4	2.0			9/14/24 08:56:53	N	II
2409018-023	Nitrate as Nitrogen	N/A		Liquid	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/14/24 09:03:09	N	II
2409018-023	Nitrite as Nitrogen	N/A		Liquid	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/14/24 09:03:09	N	II
2409018-023	Sulfate	N/A		Liquid	5.08 mg/L	10 mL	5.1 mg/L	10	0.4	2.0			9/14/24 09:03:09	N	II
2409018-025	Nitrate as Nitrogen	N/A		Liquid	1.52 mg/L	10 mL	1.5 mg/L	10	0.2	1.0			9/14/24 09:09:25	N	II
2409018-025	Nitrite as Nitrogen	N/A		Liquid	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/14/24 09:09:25	N	II
2409018-025	Sulfate	N/A		Liquid	2.69 mg/L	10 mL	2.7 mg/L	10	0.4	2.0			9/14/24 09:09:25	N	II
2409018-027	Nitrate as Nitrogen	N/A		Liquid	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/14/24 09:15:40	N	II
2409018-027	Nitrite as Nitrogen	N/A		Liquid	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/14/24 09:15:40	N	II
2409018-027	Sulfate	N/A		Liquid	0.00 mg/L	10 mL	2.0 mg/L U	10	0.4	2.0			9/14/24 09:15:40	N	II
2Q2411609-08	Nitrate as Nitrogen	CCV		Liquid	1.98 mg/L	10 mL	1.98 mg/L	1					9/14/24 09:21:54	N	II
2Q2411609-08	Nitrite as Nitrogen	CCV		Liquid	2.08 mg/L	10 mL	2.08 mg/L	1					9/14/24 09:21:54	N	II
2Q2411609-08	Sulfate	CCV		Liquid	4.04 mg/L	10 mL	4.04 mg/L	1					9/14/24 09:21:54	N	II
2Q2411609-07	Nitrate as Nitrogen	CCB		Liquid	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			9/14/24 09:28:12	N	II
2Q2411609-07	Nitrite as Nitrogen	CCB		Liquid	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			9/14/24 09:28:12	N	II
2Q2411609-07	Sulfate	CCB		Liquid	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/14/24 09:28:12	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 854090 **Method/Testcode:** 300.0/Chloride

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ2411612-01	Chloride	CCV		Water	4.14 mg/L	10 mL	4.14 mg/L	1					9/14/24 15:44	N	IV
RQ2411612-01	Fluoride, undistilled	CCV		Water	2.02 mg/L	10 mL	2.02 mg/L	1					9/14/24 15:44	N	IV
RQ2411612-01	Sulfate	CCV		Water	4.03 mg/L	10 mL	4.03 mg/L	1					9/14/24 15:44	N	IV
RQ2411612-02	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/14/24 15:50	N	IV
RQ2411612-02	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			9/14/24 15:50	N	IV
RQ2411612-02	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/14/24 15:50	N	IV
RQ2411612-03	Chloride	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/14/24 15:50	N	IV
RQ2411612-03	Fluoride, undistilled	MB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			9/14/24 15:50	N	IV
RQ2411612-03	Sulfate	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/14/24 15:50	N	IV
RQ2411612-04	Chloride	LCS		Water	2.04 mg/L	10 mL	2.04 mg/L	1	0.05	0.20	102		9/14/24 15:56	N	IV
RQ2411612-04	Fluoride, undistilled	LCS		Water	1.00 mg/L	10 mL	1.00 mg/L	1	0.010	0.10	100		9/14/24 15:56	N	IV
RQ2411612-04	Sulfate	LCS		Water	2.00 mg/L	10 mL	2.00 mg/L	1	0.04	0.20	100		9/14/24 15:56	N	IV
R2408152-001	Chloride	N/A		Water	0.49 mg/L	10 mL	2.0 mg/L U	10	0.5	2.0			9/14/24 16:03	N	IV
R2408152-001	Sulfate	N/A		Water	1.45 mg/L	10 mL	2.0 mg/L U	10	0.4	2.0			9/14/24 16:03	N	IV
R2408152-003	Chloride	N/A		Water	0.48 mg/L	10 mL	2.0 mg/L U	10	0.5	2.0			9/14/24 16:09	N	IV
R2408152-003	Sulfate	N/A		Water	1.35 mg/L	10 mL	2.0 mg/L U	10	0.4	2.0			9/14/24 16:09	N	IV
R2408152-005	Chloride	N/A		Water	4.60 mg/L	10 mL	4.6 mg/L	10	0.5	2.0			9/14/24 16:15	N	IV
R2408152-005	Sulfate	N/A		Water	2.13 mg/L	10 mL	2.1 mg/L	10	0.4	2.0			9/14/24 16:15	N	IV
R2408152-007	Chloride	N/A		Water	4.40 mg/L	10 mL	4.4 mg/L	10	0.5	2.0			9/14/24 16:21	N	IV
R2408152-007	Sulfate	N/A		Water	1.97 mg/L	10 mL	2.0 mg/L U	10	0.4	2.0			9/14/24 16:21	N	IV
RQ2411612-09	Chloride	MS	R2408152-007	Water	23.81 mg/L	10 mL	23.8 mg/L	10	0.5	2.0	97		9/14/24 16:28	N	IV
RQ2411612-09	Sulfate	MS	R2408152-007	Water	21.55 mg/L	10 mL	21.5 mg/L	10	0.4	2.0	108		9/14/24 16:28	N	IV
RQ2411612-10	Chloride	DMS	R2408152-007	Water	23.83 mg/L	10 mL	23.8 mg/L	10	0.5	2.0	97	<1	9/14/24 16:34	N	IV
RQ2411612-10	Sulfate	DMS	R2408152-007	Water	21.63 mg/L	10 mL	21.6 mg/L	10	0.4	2.0	108	<1	9/14/24 16:34	N	IV
R2408168-001	Chloride	N/A		Water	5.64 mg/L	10 mL	5.64 mg/L	1	0.05	0.20			9/14/24 16:40	N	IV
R2408168-001	Fluoride, undistilled	N/A		Water	0.12 mg/L	10 mL	0.12 mg/L	1	0.010	0.10			9/14/24 16:40	N	IV
R2408168-001	Sulfate	N/A		Water	2.14 mg/L	10 mL	2.14 mg/L	1	0.04	0.20			9/14/24 16:40	N	IV
R2408168-003	Chloride	N/A		Water	0.50 mg/L	10 mL	0.50 mg/L	1	0.05	0.20			9/14/24 16:46	N	IV
R2408168-003	Fluoride, undistilled	N/A		Water	0.08 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			9/14/24 16:46	N	IV
R2408168-003	Sulfate	N/A		Water	3.65 mg/L	10 mL	3.65 mg/L	1	0.04	0.20			9/14/24 16:46	N	IV
R2408168-005	Fluoride, undistilled	N/A		Water	0.12 mg/L	10 mL	0.12 mg/L	1	0.010	0.10			9/14/24 16:53	N	IV
RQ2411612-05	Chloride	CCV		Water	4.12 mg/L	10 mL	4.12 mg/L	1					9/14/24 16:59	N	IV
RQ2411612-05	Fluoride, undistilled	CCV		Water	2.01 mg/L	10 mL	2.01 mg/L	1					9/14/24 16:59	N	IV
RQ2411612-05	Sulfate	CCV		Water	4.02 mg/L	10 mL	4.02 mg/L	1					9/14/24 16:59	N	IV
RQ2411612-06	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/14/24 17:05	N	IV
RQ2411612-06	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			9/14/24 17:05	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 854090 **Method/Testcode:** 300.0/SO4

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2411612-06	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/14/24 17:05	N	IV
K2408168-005	Chloride	N/A		Water	80.77 mg/L	10 mL	80.8 mg/L	10	0.5	2.0			9/14/24 17:12	N	IV
K2408168-005	Sulfate	N/A		Water	29.35 mg/L	10 mL	29.3 mg/L	10	0.4	2.0			9/14/24 17:12	N	IV
K2408140-002	Sulfate	N/A		Water	15.07 mg/L	10 mL	15.1 mg/L	10	0.4	2.0			9/14/24 17:18	N	IV
K2408140-003	Sulfate	N/A		Water	21.07 mg/L	10 mL	21.1 mg/L	10	0.4	2.0			9/14/24 17:24	N	IV
K2408140-004	Sulfate	N/A		Water	0.00 mg/L	10 mL	2.0 mg/L U	10	0.4	2.0			9/14/24 17:30	N	IV
K2408140-007	Sulfate	N/A		Water	0.00 mg/L	10 mL	2.0 mg/L U	10	0.4	2.0			9/14/24 17:37	N	IV
KQ2411612-11	Sulfate	MS	R2408140-007	Water	19.60 mg/L	10 mL	19.6 mg/L	10	0.4	2.0	98		9/14/24 17:43	N	IV
KQ2411612-12	Sulfate	DMS	R2408140-007	Water	19.64 mg/L	10 mL	19.6 mg/L	10	0.4	2.0	98	<1	9/14/24 17:49	N	IV
K2408140-012	Sulfate	N/A		Water	60.83 mg/L	10 mL	60.8 mg/L	10	0.4	2.0			9/14/24 17:55	N	IV
K2408140-013	Sulfate	N/A		Water	62.34 mg/L	10 mL	62.3 mg/L	10	0.4	2.0			9/14/24 18:02	N	IV
KQ2411612-08	Chloride	CCV		Water	4.06 mg/L	10 mL	4.06 mg/L	1					9/14/24 18:39	N	IV
KQ2411612-08	Fluoride, undistilled	CCV		Water	1.98 mg/L	10 mL	1.98 mg/L	1					9/14/24 18:39	N	IV
KQ2411612-08	Sulfate	CCV		Water	3.94 mg/L	10 mL	3.94 mg/L	1					9/14/24 18:39	N	IV
KQ2411612-07	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/14/24 18:45	N	IV
KQ2411612-07	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			9/14/24 18:45	N	IV
KQ2411612-07	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/14/24 18:45	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Determination overview IC10 pipette: Chrome/Bottom 300.0/9056A 9/14/24 KW

	Method name	Determination start	Position	Ident	Dilution	Info 1	Info 2
1	10-091224FAST	2024-09-14 07:09:24 UTC-4	1	CCV	1	300.0/9056A	
2	10-091224FAST	2024-09-14 07:15:42 UTC-4	2	CCB	1	300.0/9056A	
3	10-091224FAST	2024-09-14 07:27:18 UTC-4	3	LCS 864192	1	300.0/9056A	
4	10-091224FAST	2024-09-14 07:48:05 UTC-4	4	R2409018-003	10	300.0 NNS	W18
5	10-091224FAST	2024-09-14 07:54:21 UTC-4	5	R2409018-003 MSI	10	300.0 NNS	W18 MSI
6	10-091224FAST	2024-09-14 08:00:36 UTC-4	6	R2409018-003 MSDI	10	300.0 NNS	W18 MSDI
7	10-091224FAST	2024-09-14 08:06:52 UTC-4	7	R2409018-006	10	300.0 NNS	W20S
8	10-091224FAST	2024-09-14 08:13:07 UTC-4	8	R2409018-009	10	300.0 NNS	PW3
9	10-091224FAST	2024-09-14 08:19:22 UTC-4	9	R2409018-012	10	300.0 NNS	PW4
10	10-091224FAST	2024-09-14 08:25:37 UTC-4	10	R2409018-014	10	300.0 NNS	GMMW2
11	10-091224FAST	2024-09-14 08:31:52 UTC-4	11	R2409018-016	10	300.0 NNS	PW7
12	10-091224FAST	2024-09-14 08:38:08 UTC-4	12	R2409018-018	10	300.0 NNS	GMMW7
13	10-091224FAST	2024-09-14 08:44:23 UTC-4	13	CCV	1	300.0/9056A	
14	10-091224FAST	2024-09-14 08:50:39 UTC-4	14	CCB	1	300.0/9056A	
15	10-091224FAST	2024-09-14 08:56:53 UTC-4	15	R2409018-020	10	300.0 NNS	GMM7 DUP
16	10-091224FAST	2024-09-14 09:03:09 UTC-4	16	R2409018-023	10	300.0 NNS	GMMW5
17	10-091224FAST	2024-09-14 09:09:25 UTC-4	17	R2409018-025	10	300.0 NNS	GMMW6
18	10-091224FAST	2024-09-14 09:15:40 UTC-4	18	R2409018-027	10	300.0 NNS	EB
19	10-091224FAST	2024-09-14 09:21:54 UTC-4	19	CCV	1	300.0/9056A	
20	10-091224FAST	2024-09-14 09:28:12 UTC-4	20	CCB	1	300.0/9056A	
21	10-091224FAST	2024-09-14 10:14:40 UTC-4	21	LCS DNR	1	300.0/9056A	
22	10-091224FAST	2024-09-14 10:20:54 UTC-4	22	R2409013-001 DNR	10	300.0 CNS	
23	10-091224FAST	2024-09-14 10:27:08 UTC-4	23	R2409013-002 DNR	10	300.0 CNS	
24	10-091224FAST	2024-09-14 10:34:17 UTC-4	24	R2409013-003 DNR	10	300.0 CNS	
25	10-091224FAST	2024-09-14 10:40:40 UTC-4	25	R2409013-004 DNR	10	300.0 CNS	
26	10-091224FAST	2024-09-14 10:46:57 UTC-4	26	R2409013-004 MSI DNR	10	300.0 CNS	
27	10-091224FAST	2024-09-14 10:53:14 UTC-4	27	R2409013-004 MSDI DNR	10	300.0 CNS	
28	10-091224FAST	2024-09-14 10:59:30 UTC-4	28	R2408913-006 DNR	10	300.0 CNS	
29	10-091224FAST	2024-09-14 11:05:45 UTC-4	29	R2408913-007 DNR	10	300.0 CNS	
30	10-091224FAST	2024-09-14 11:12:00 UTC-4	30	R2408914-001 DNR	10	300.0 CNS	
31	10-091224FAST	2024-09-14 11:18:16 UTC-4	31	CCV	1	300.0/9056A	
32	10-091224FAST	2024-09-14 11:24:33 UTC-4	32	CCB	1	300.0/9056A	
33	10-091224FAST	2024-09-14 12:11:24 UTC-4	33	R2409005-001 DNR	10	300.0 NO2 C	OUT OF HOLD-NO CHAIN F...
34	10-091224FAST	2024-09-14 12:17:47 UTC-4	34	R2408912-001 DNR	10	300.0 C NO3	
35	10-091224FAST	2024-09-14 12:24:03 UTC-4	35	R2408912-001 DNR	100	300.0 C NO3	
36	10-091224FAST	2024-09-14 12:30:18 UTC-4	36	R2408385-007 DNR	10	300.0 S	
37	10-091224FAST	2024-09-14 12:36:33 UTC-4	37	R2408385-008 DNR	10	300.0 S	
38	10-091224FAST	2024-09-14 12:42:48 UTC-4	38	R2408385-009 DNR	10	300.0 S	
39	10-091224FAST	2024-09-14 12:49:04 UTC-4	39	R2408385-010 DNR	10	300.0 S	
40	10-091224FAST	2024-09-14 12:55:21 UTC-4	40	R2408385-013 DNR	10	300.0 S	
41	10-091224FAST	2024-09-14 13:01:36 UTC-4	41	R2408385-013 MS DNR	10	300.0 S	
42	10-091224FAST	2024-09-14 13:07:51 UTC-4	42	R2408385-013 MSD DNR	10	300.0 S	
43	10-091224FAST	2024-09-14 13:14:07 UTC-4	43	CCV	1	300.0/9056A	
44	10-091224FAST	2024-09-14 13:20:24 UTC-4	44	CCB	1	300.0/9056A	
45	10-091224FAST	2024-09-14 13:26:38 UTC-4	45	LCS	1	300.0/9056A	
46	10-091224FAST	2024-09-14 13:32:59 UTC-4	46	R2408385-011 DNR	10	300.0 S	
47	10-091224FAST	2024-09-14 13:39:15 UTC-4	47	R2408385-012 DNR	10	300.0 S	
48	10-091224FAST	2024-09-14 13:45:30 UTC-4	48	R2408385-014 DNR	10	300.0 S	
49	10-091224FAST	2024-09-14 13:51:46 UTC-4	49	R2408385-015 DNR	10	300.0 S	
50	10-091224FAST	2024-09-14 13:58:01 UTC-4	50	R2408385-016 DNR	10	300.0 S	
51	10-091224FAST	2024-09-14 14:04:16 UTC-4	51	R2408385-017 DNR	10	300.0 S	
52	10-091224FAST	2024-09-14 14:10:32 UTC-4	52	R2408385-018 DNR	10	300.0 S	
53	10-091224FAST	2024-09-14 14:16:47 UTC-4	53	R2408385-018 MS DNR	10	300.0 S	
54	10-091224FAST	2024-09-14 14:23:03 UTC-4	54	R2408385-018 MSD DNR	10	300.0 S	
55	10-091224FAST	2024-09-14 14:29:19 UTC-4	55	CCV	1	300.0/9056A	
56	10-091224FAST	2024-09-14 14:35:35 UTC-4	56	CCB	1	300.0/9056A	
57	10-091224FAST	2024-09-14 14:41:49 UTC-4	57	R2408385-019 DNR	10	300.0 S	
58	10-091224FAST	2024-09-14 14:48:05 UTC-4	58	R2408385-020 DNR	10	300.0 S	
59	10-091224FAST	2024-09-14 14:54:21 UTC-4	59	R2408385-021 DNR	10	300.0 S	
60	10-091224FAST	2024-09-14 15:00:37 UTC-4	60	R2408385-022	10	300.0 S	
61	10-091224FAST	2024-09-14 15:06:52 UTC-4	61	R2408385-022 MS	10	300.0 S	
62	10-091224FAST	2024-09-14 15:13:08 UTC-4	62	R2408385-022 MSD	10	300.0 S	
63	10-091224FAST	2024-09-14 15:19:23 UTC-4	63	R2408385-023 DNR	10	300.0 S	

Determination overview

	Method name	Determination start	Position	Ident	Dilution	Info 1	Info 2
64	10-091224FAST	2024-09-14 15:25:40 UTC-4	64	R2408385-023 DNR	100	300.0 S	
65	10-091224FAST	2024-09-14 15:31:55 UTC-4	65	R2408385-023 DNR	1000	300.0 S	
66	10-091224FAST	2024-09-14 15:38:10 UTC-4	66	R2408385-024 DNR	10	300.0 S	
67	10-091224FAST	2024-09-14 15:44:25 UTC-4	67	CCV	1	300.0/9056A	
68	10-091224FAST	2024-09-14 15:50:41 UTC-4	68	CCB	1	300.0/9056A	
69	10-091224FAST	2024-09-14 15:56:57 UTC-4	69	LCS 854090	1	300.0/9056A	
70	10-091224FAST	2024-09-14 16:03:13 UTC-4	70	R2408152-001	10	300.0 CS	
71	10-091224FAST	2024-09-14 16:09:28 UTC-4	71	R2408152-003	10	300.0 CS	
72	10-091224FAST	2024-09-14 16:15:42 UTC-4	72	R2408152-005	10	300.0 CS	
73	10-091224FAST	2024-09-14 16:21:57 UTC-4	73	R2408152-007	10	300.0 CS	
74	10-091224FAST	2024-09-14 16:28:12 UTC-4	74	R2408152-007 MS	10	300.0 CS	
75	10-091224FAST	2024-09-14 16:34:28 UTC-4	75	R2408152-007 MSD	10	300.0 CS	
76	10-091224FAST	2024-09-14 16:40:44 UTC-4	76	R2408168-001	1	300.0 FCS	
77	10-091224FAST	2024-09-14 16:46:59 UTC-4	77	R2408168-003	1	300.0 FCS	
78	10-091224FAST	2024-09-14 16:53:14 UTC-4	78	R2408168-005	1	300.0 F	
79	10-091224FAST	2024-09-14 16:59:30 UTC-4	79	CCV	1	300.0/9056A	
80	10-091224FAST	2024-09-14 17:05:46 UTC-4	80	CCB	1	300.0/9056A	
81	10-091224FAST	2024-09-14 17:12:00 UTC-4	81	R2408168-005	10	300.0 CS	
82	10-091224FAST	2024-09-14 17:18:15 UTC-4	82	R2408140-002	10	300.0 S	
83	10-091224FAST	2024-09-14 17:24:31 UTC-4	83	R2408140-003	10	300.0 S	
84	10-091224FAST	2024-09-14 17:30:46 UTC-4	84	R2408140-004	10	300.0 S	
85	10-091224FAST	2024-09-14 17:37:04 UTC-4	85	R2408140-007	10	300.0 S	
86	10-091224FAST	2024-09-14 17:43:19 UTC-4	86	R2408140-007 MS	10	300.0 S	
87	10-091224FAST	2024-09-14 17:49:34 UTC-4	87	R2408140-007 MSD	10	300.0 S	
88	10-091224FAST	2024-09-14 17:55:50 UTC-4	88	R2408140-012	10	300.0 S	
89	10-091224FAST	2024-09-14 18:02:05 UTC-4	89	R2408140-013	10	300.0 S	
90	10-091224FAST	2024-09-14 18:39:15 UTC-4	90	CCV	1	300.0/9056A	
91	10-091224FAST	2024-09-14 18:45:31 UTC-4	91	CCB	1	300.0/9056A	

Sample Dilutions

Final Volume: 8-10mL - IC#3,10

Analyst: KW|KAW
Instrument: IC#10

Date 9-14-24
Analysis 300.0|9056A

Common Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor
1/2	DI	4.5	4.5	1/2												
1/3	DI	3	6	1/3												
1/4	DI	2	6	1/4												
1/5	DI	2	8	1/5												
1/10	DI	1	9	1/10												
1/20	DI	3	3	1/2	1	9	1/20									
1/30	DI	3	6	1/3	1	9	1/30									
1/40	DI	1	3	1/4	1	9	1/40									
1/50	DI	1	4	1/5	1	9	1/50									
1/100	DI	1	9	1/10	1	9	1/100									
1/200	DI	3	3	1/2	1	9	1/20	1	9	1/200						
1/300	DI	3	6	1/3	1	9	1/30	1	9	1/300						
1/400	DI	1	3	1/4	1	9	1/40	1	9	1/400						
1/500	DI	1	4	1/5	1	9	1/50	1	9	1/500						
1/1000	DI	1	9	1/10	1	9	1/100	1	9	1/1000						
1/2000	DI	3	3	1/2	1	9	1/20	1	9	1/200	1	9	1/2000			
1/3000	DI	3	6	1/3	1	9	1/30	1	9	1/300	1	9	1/3000			
1/4000	DI	1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000			
1/10000	DI	1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000			
1/20000	DI	1	1	1/2	1	9	1/20	1	9	1/200	1	9	1/2000	1	9	1/20000
1/40000	DI	1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000	1	9	1/40000
1/100000	DI	1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000	1	9	1/100000

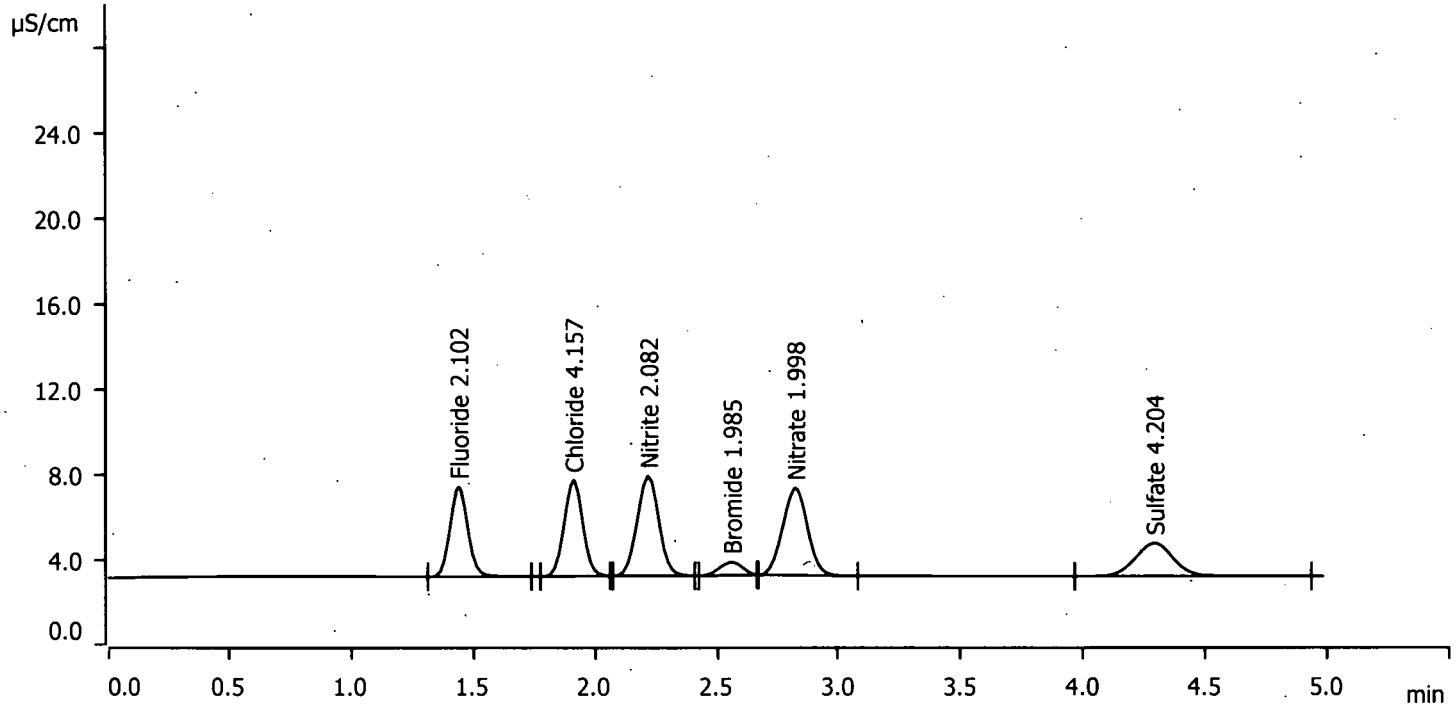
Special Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-14 07:09:24 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92197
Sample Position	1
Comment 1	300.0/9056A
Comment 2	

Anions



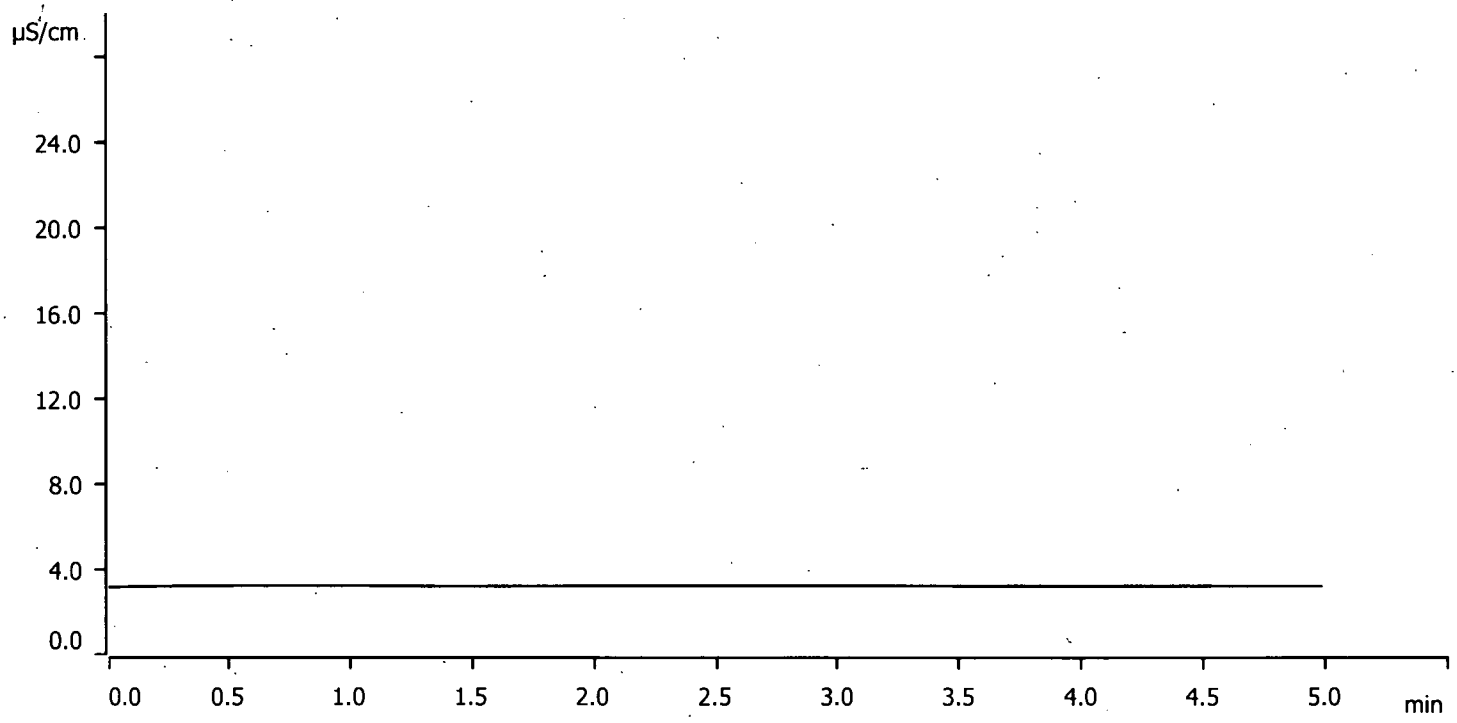
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.354	2.102	Fluoride	BB
2	1.92	0.403	4.157	Chloride	BB
3	2.22	0.482	2.082	Nitrite	BB
4	2.56	0.066	1.985	Bromide	BB
5	2.82	0.486	1.998	Nitrate	BB
6	4.29	0.282	4.204	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-14 07:15:42 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92198
Sample Position	2
Comment 1	300.0/9056A
Comment 2	

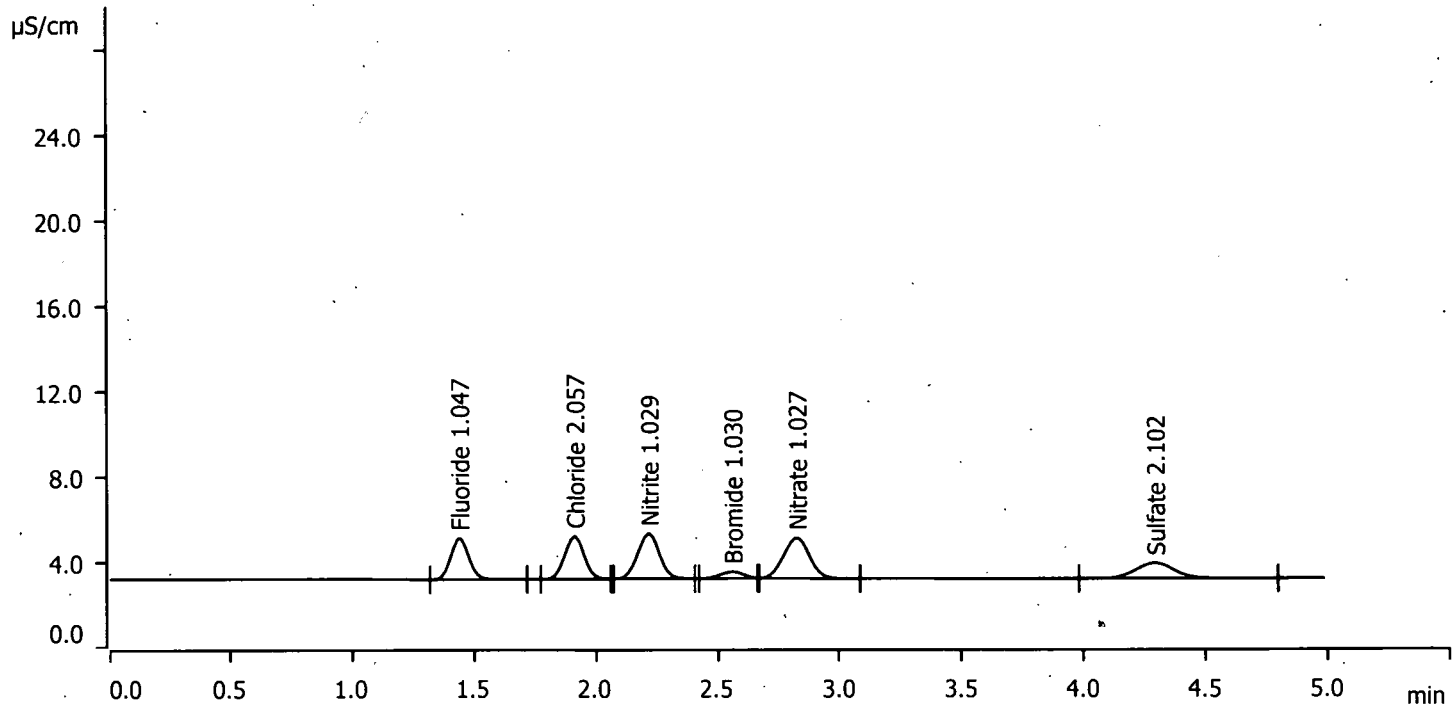
Anions



Sample data

Ident	LCS
Sample type	Check standard 2
Determination start	2024-09-14 07:27:18 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92199
Sample Position	3
Comment 1	300.0/9056A
Comment 2	

Anions



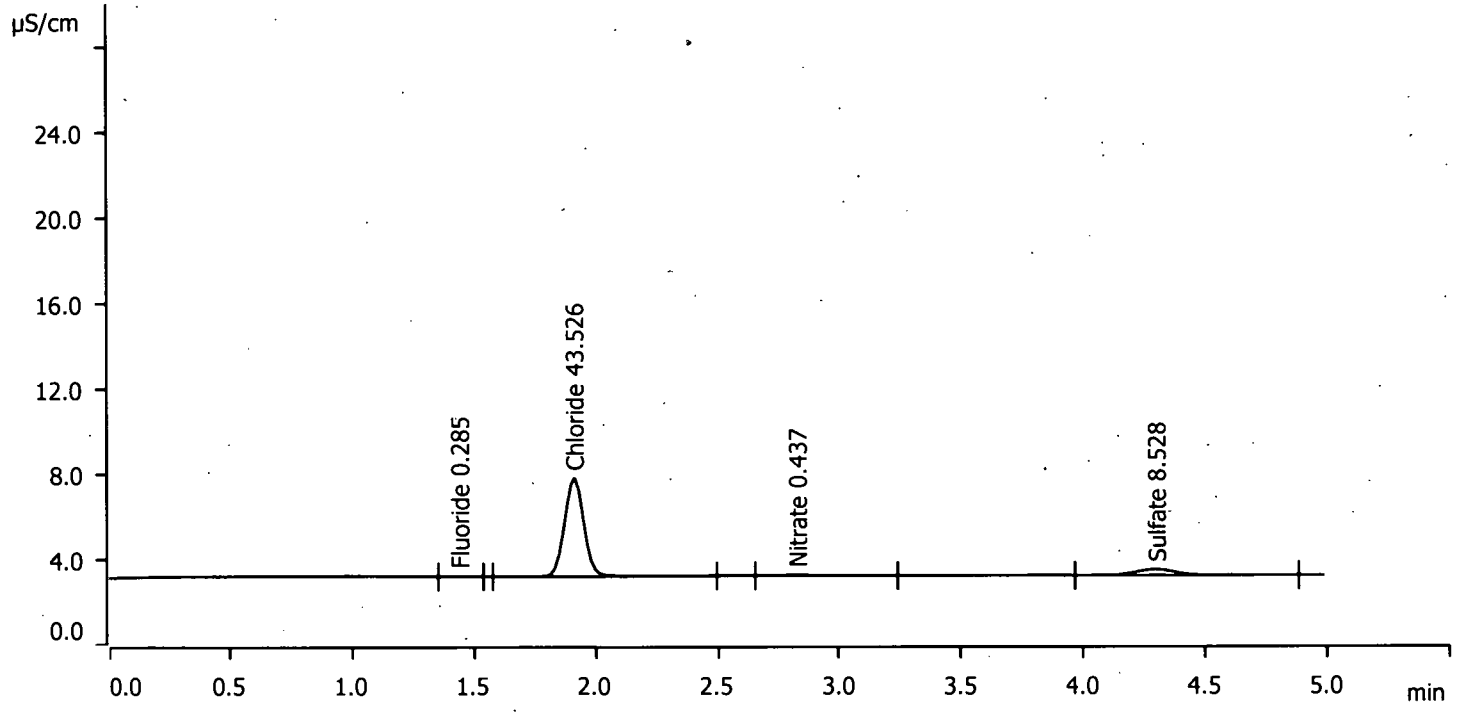
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.165	1.047	Fluoride	BB
2	1.92	0.185	2.057	Chloride	BB
3	2.22	0.223	1.029	Nitrite	BB
4	2.56	0.033	1.030	Bromide	BB
5	2.83	0.232	1.027	Nitrate	BB
6	4.29	0.135	2.102	Sulfate	BB

Sample data

Ident	R2409018-003
Sample type	Sample
Determination start	2024-09-14 07:48:05 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92200
Sample Position	4
Comment 1	300.0 NNS
Comment 2	W18

Anions



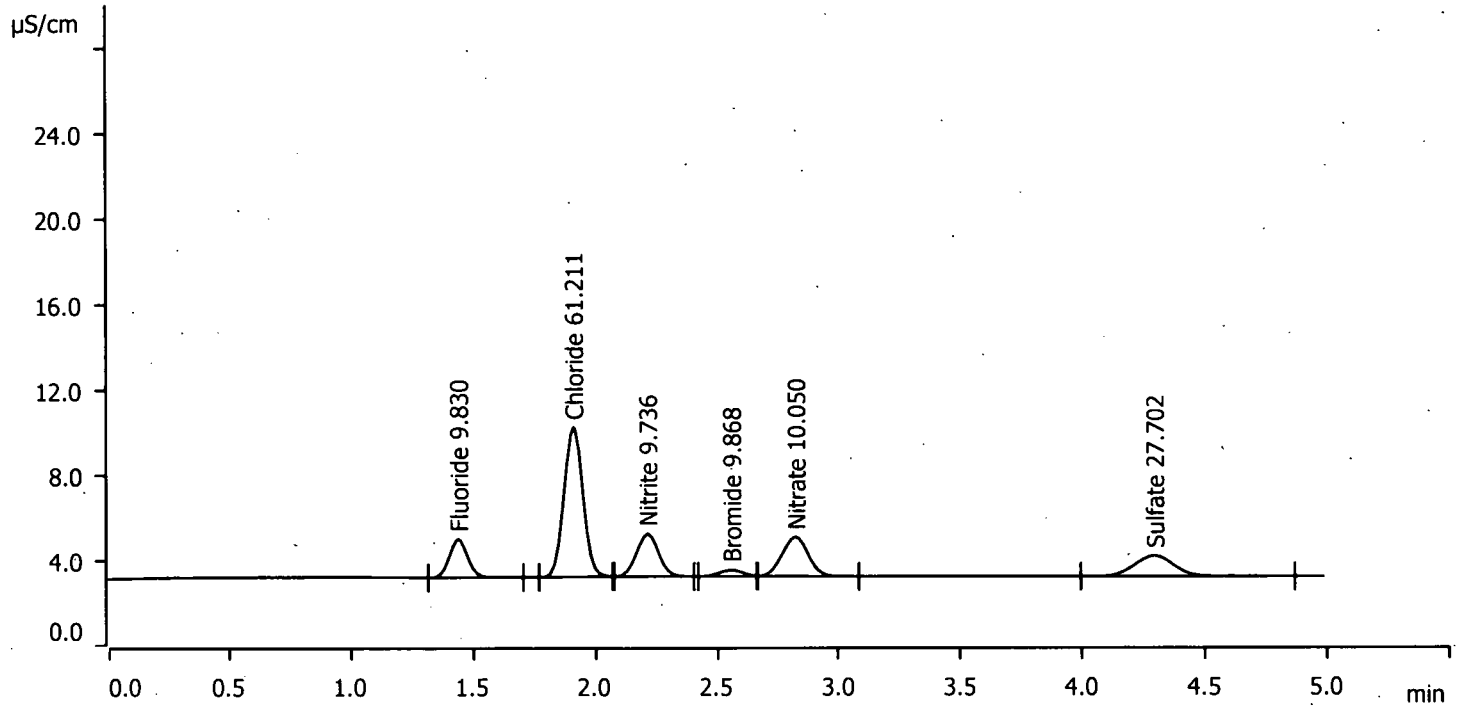
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.001	0.285	Fluoride	BB
2	1.92	0.425	43.526	Chloride	BB
3	2.83	0.005	0.437	Nitrate	BB
4	4.30	0.053	8.528	Sulfate	BB

Sample data

Ident	R2409018-003 MS!
Sample type	Sample
Determination start	2024-09-14 07:54:21 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92201
Sample Position	5
Comment 1	300.0 NNS
Comment 2	W18 MS!

Anions



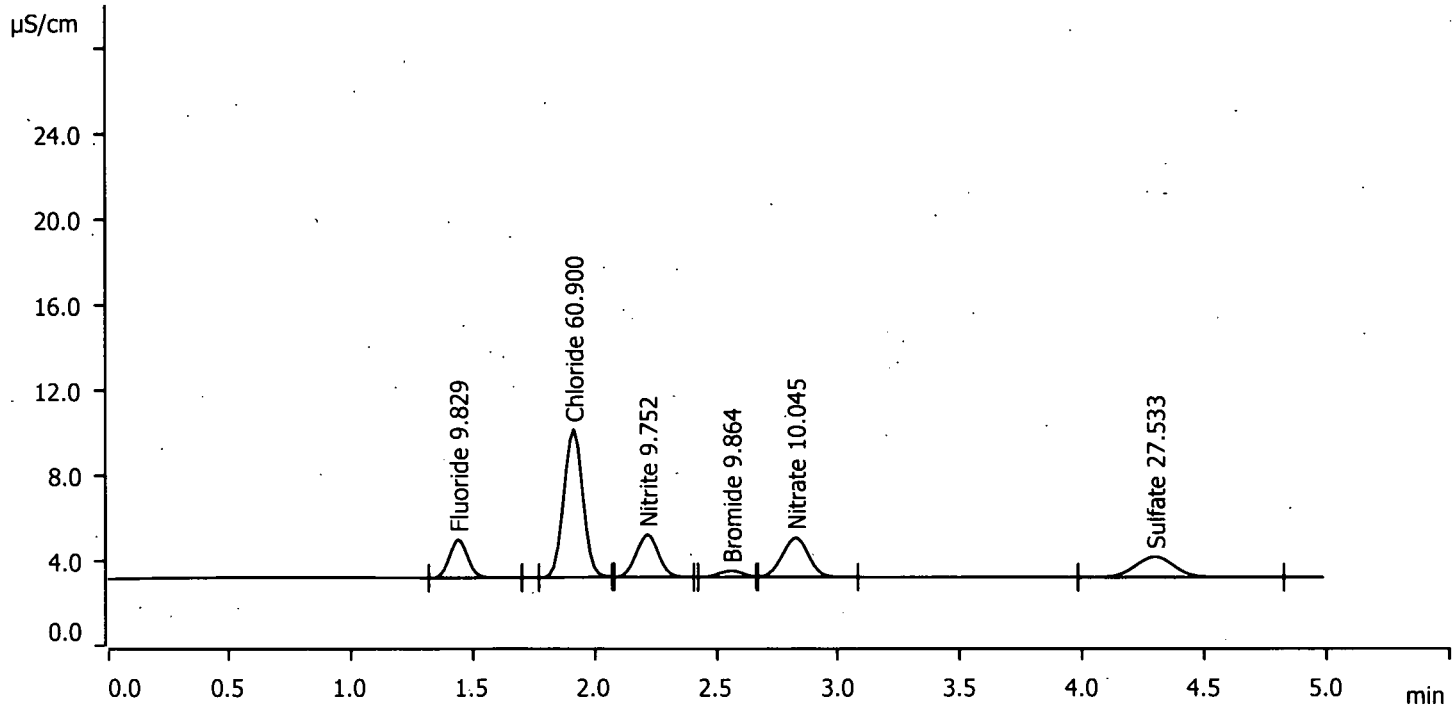
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.154	9.830	Fluoride	BB
2	1.91	0.632	61.211	Chloride	BB
3	2.22	0.210	9.736	Nitrite	BB
4	2.56	0.032	9.868	Bromide	BB
5	2.82	0.226	10.050	Nitrate	BB
6	4.29	0.181	27.702	Sulfate	BB

Sample data

Ident	R2409018-003 MSD!
Sample type	Sample
Determination start	2024-09-14 08:00:36 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92202
Sample Position	6
Comment 1	300.0 NNS
Comment 2	W18 MSD!

Anions



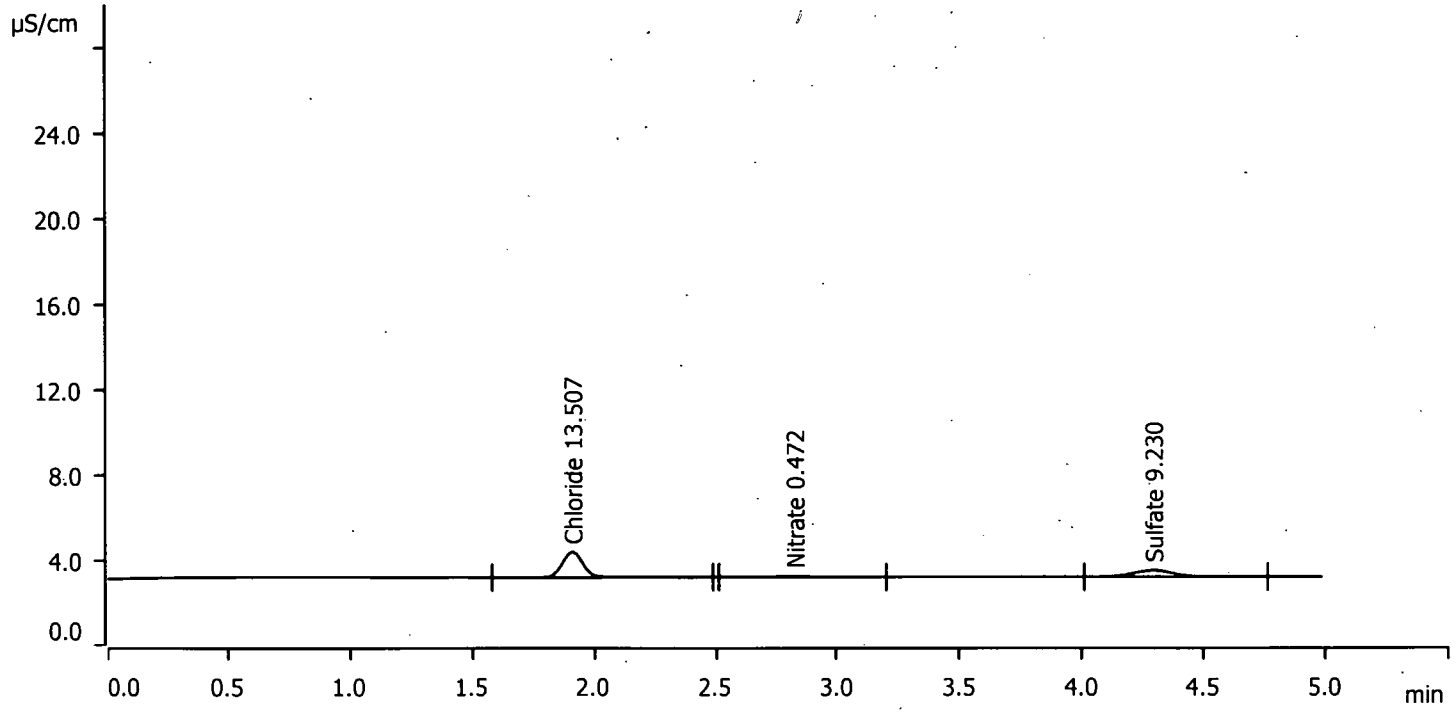
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.154	9.829	Fluoride	BB
2	1.92	0.628	60.900	Chloride	BB
3	2.22	0.210	9.752	Nitrite	BB
4	2.56	0.032	9.864	Bromide	BB
5	2.83	0.226	10.045	Nitrate	BB
6	4.30	0.180	27.533	Sulfate	BB

Sample data

Ident	R2409018-006
Sample type	Sample
Determination start	2024-09-14 08:06:52 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92203
Sample Position	7
Comment 1	300.0 NNS
Comment 2	W20S

Anions



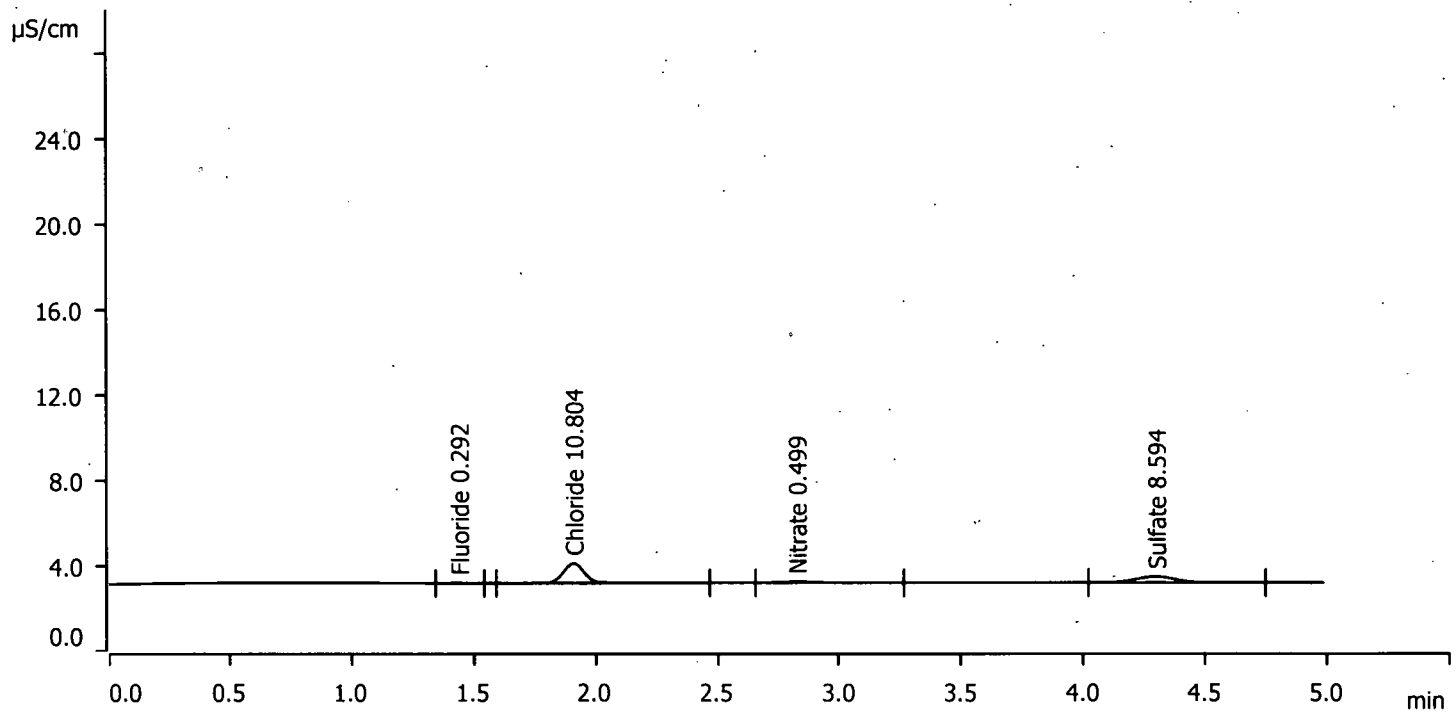
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.118	13.507	Chloride	BB
2	2.83	0.006	0.472	Nitrate	BB
3	4.29	0.058	9.230	Sulfate	BB

Sample data

Ident	R2409018-009
Sample type	Sample
Determination start	2024-09-14 08:13:07 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92204
Sample Position	8
Comment 1	300.0 NNS
Comment 2	PW3

Anions



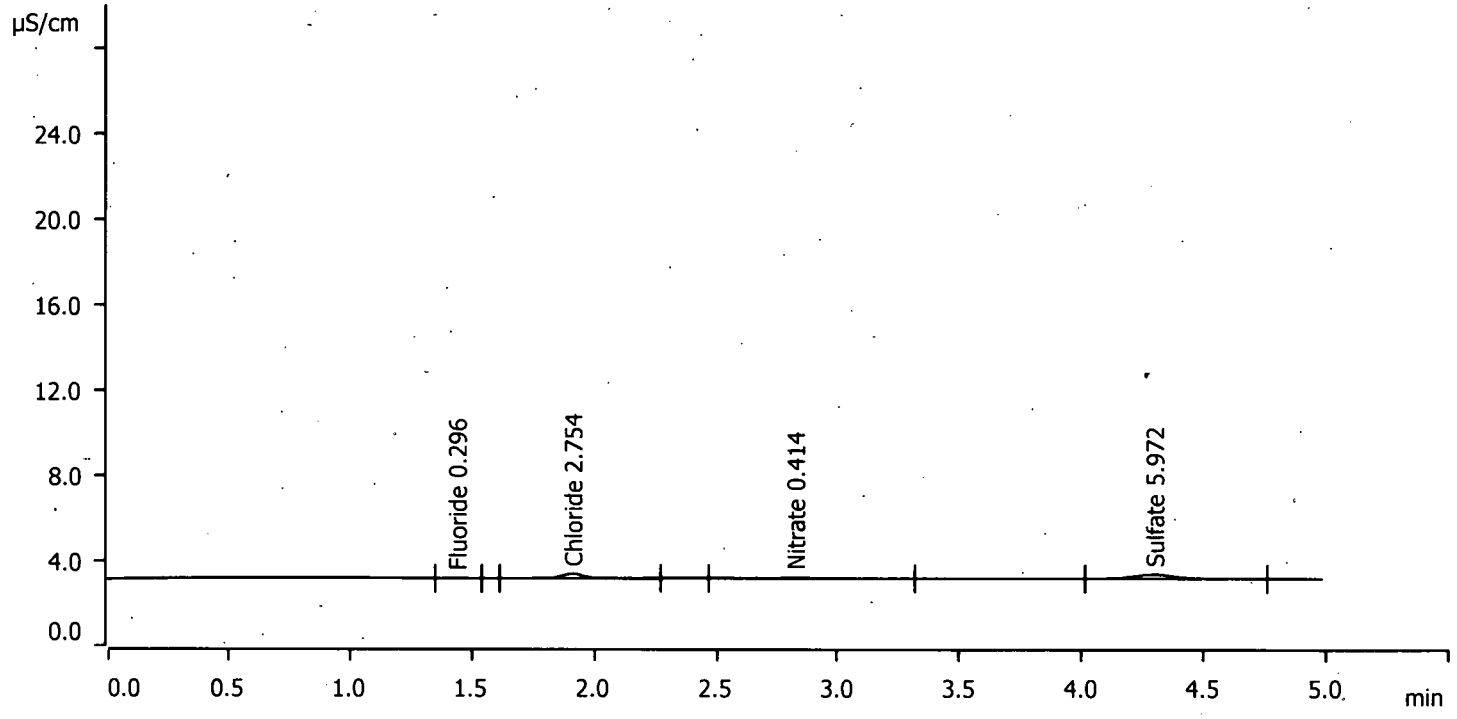
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.001	0.292	Fluoride	BB
2	1.91	0.093	10.804	Chloride	BB
3	2.83	0.007	0.499	Nitrate	BB
4	4.30	0.054	8.594	Sulfate	BB

Sample data

Ident	R2409018-012
Sample type	Sample
Determination start	2024-09-14 08:19:22 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92205
Sample Position	9
Comment 1	300.0 NNS
Comment 2	PW4

Anions



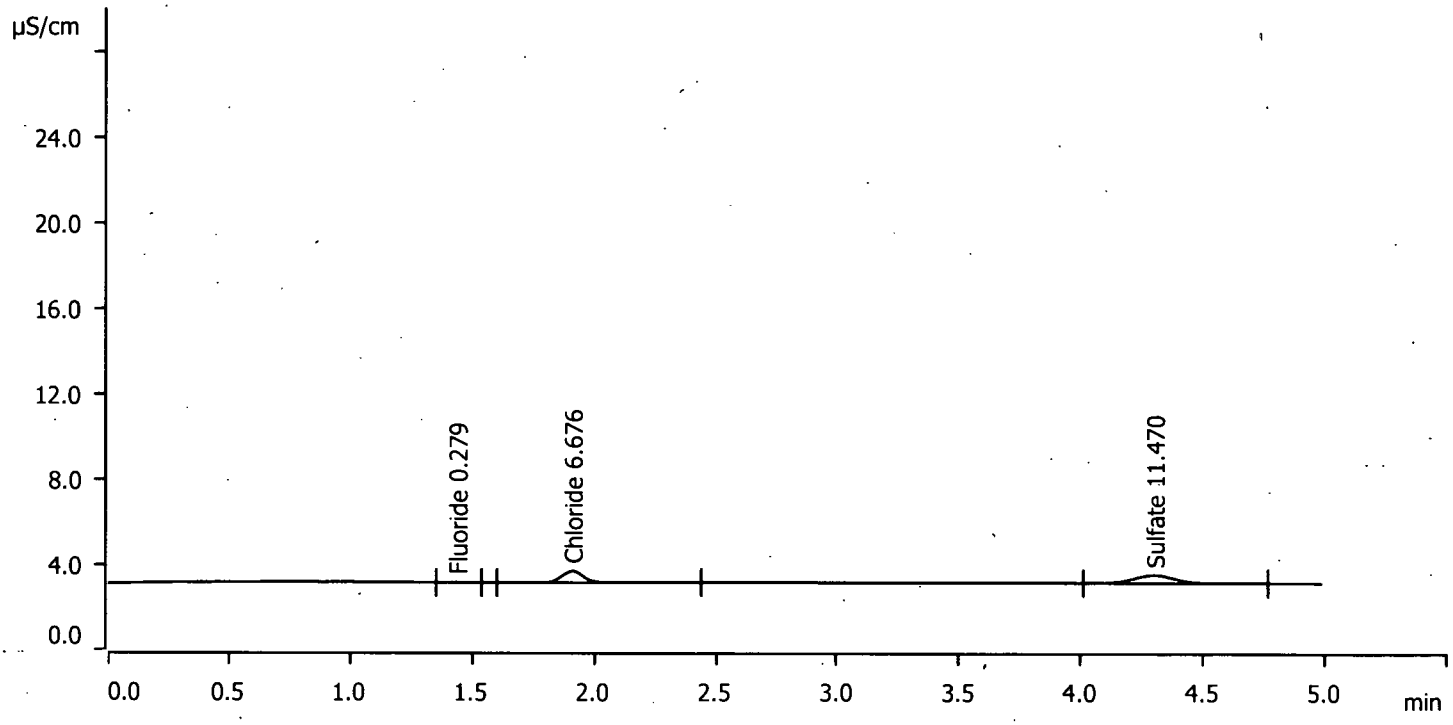
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.001	0.296	Fluoride	BB
2	1.92	0.022	2.754	Chloride	BB
3	2.83	0.005	0.414	Nitrate	BBI
4	4.30	0.037	5.972	Sulfate	BB

Sample data

Ident	R2409018-014
Sample type	Sample
Determination start	2024-09-14 08:25:37 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92206
Sample Position	10
Comment 1	300.0 NNS
Comment 2	GMMW2

Anions



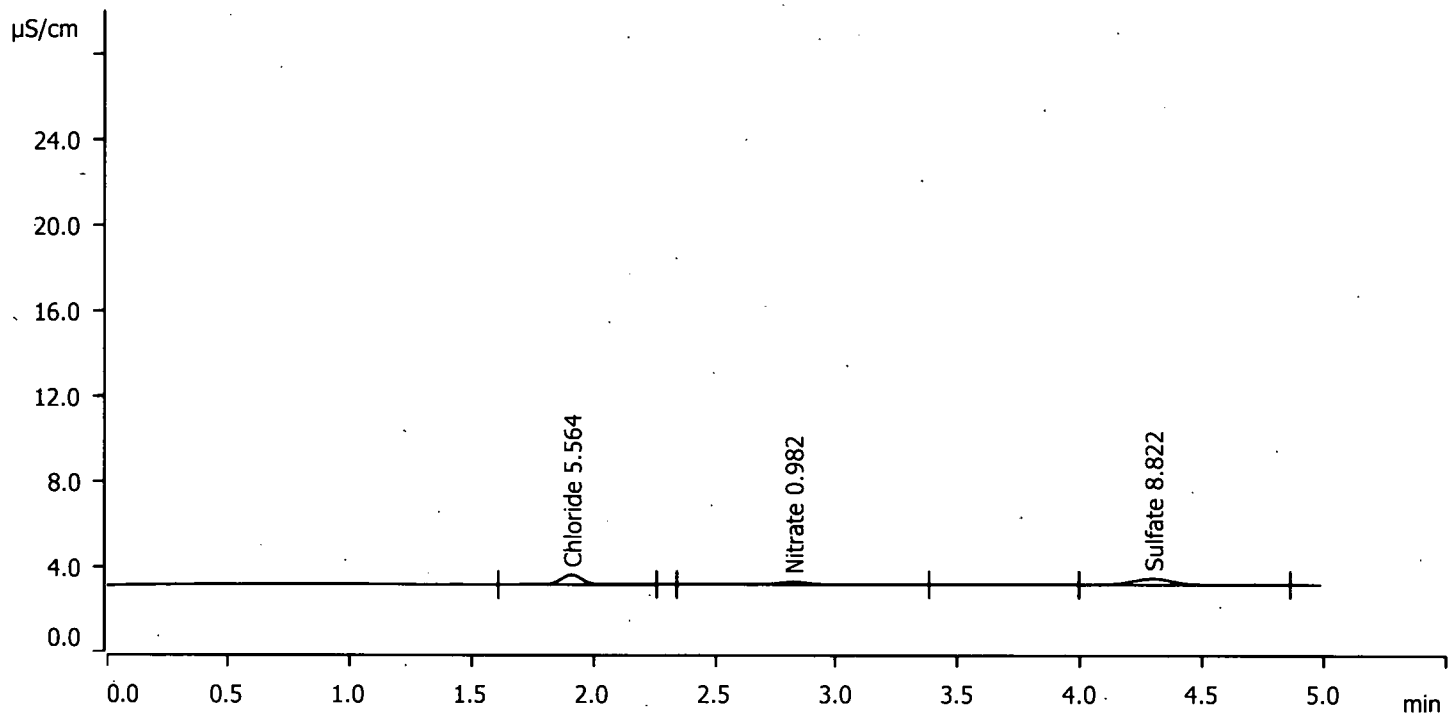
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.001	0.279	Fluoride	BB
2	1.92	0.056	6.676	Chloride	BB
3	4.30	0.072	11.470	Sulfate	BB

Sample data

Ident	R2409018-016
Sample type	Sample
Determination start	2024-09-14 08:31:52 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92207
Sample Position	11
Comment 1	300.0 NNS
Comment 2	PW7

Anions



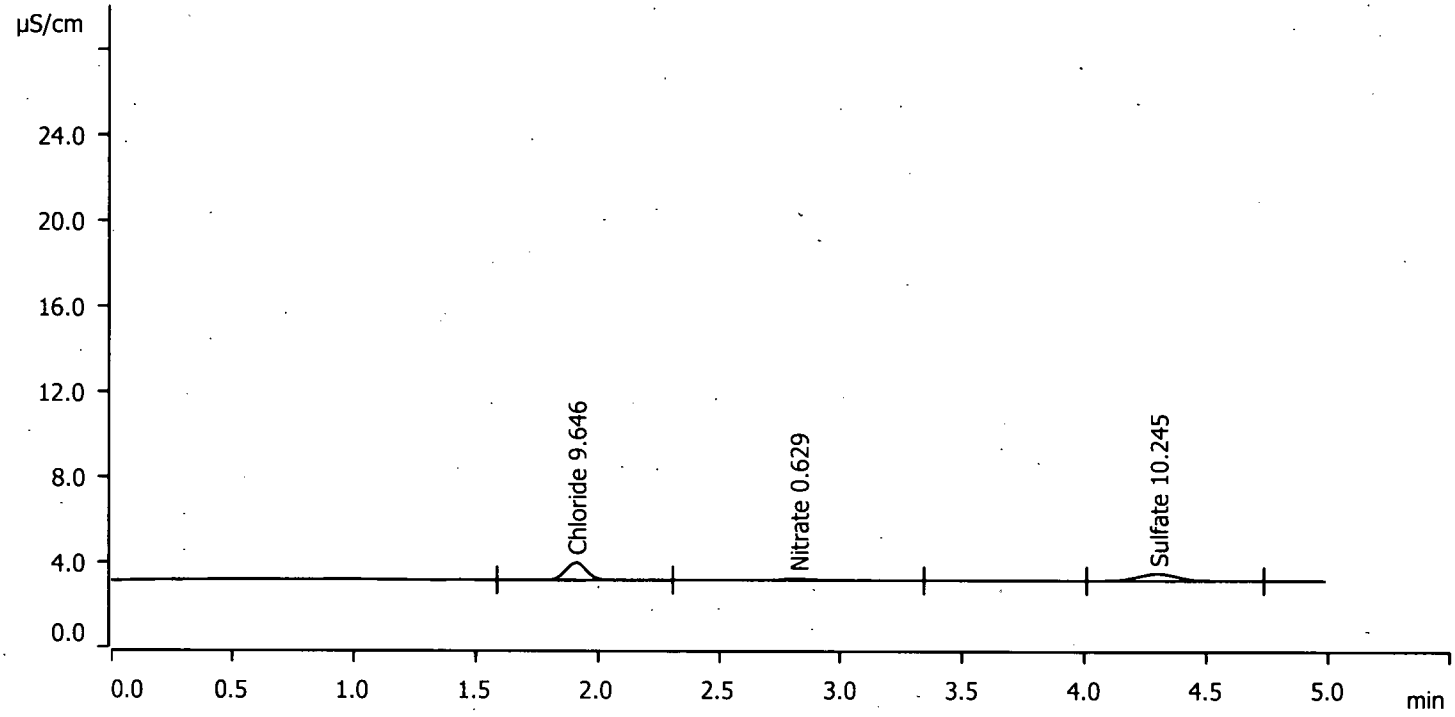
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.046	5.564	Chloride	BB
2	2.83	0.017	0.982	Nitrate	BB
3	4.30	0.055	8.822	Sulfate	BB

Sample data

Ident	R2409018-018
Sample type	Sample
Determination start	2024-09-14 08:38:08 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92208
Sample Position	12
Comment 1	300.0 NNS
Comment 2	GMMW7

Anions



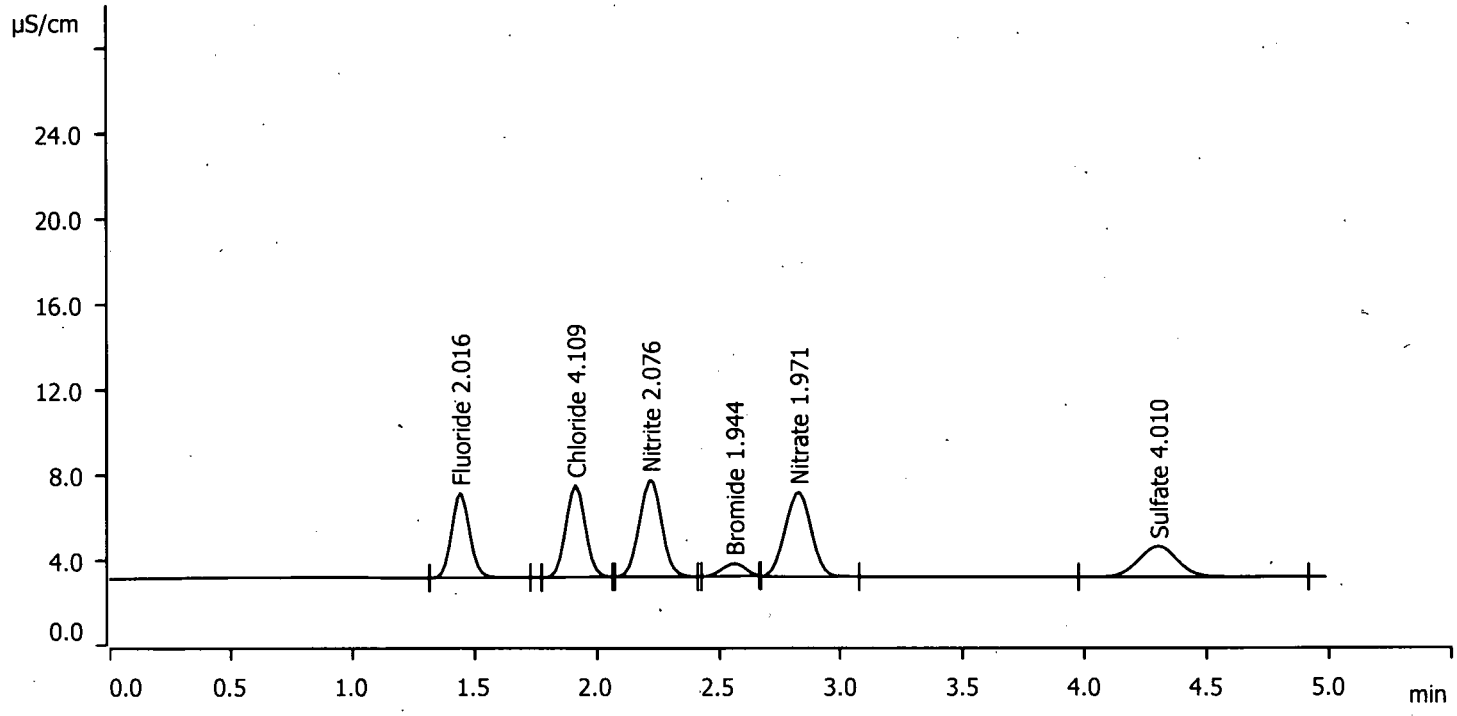
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.083	9.646	Chloride	BB
2	2.83	0.009	0.629	Nitrate	BB
3	4.30	0.064	10.245	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-14 08:44:23 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92209
Sample Position	13
Comment 1	300.0/9056A
Comment 2	

Anions



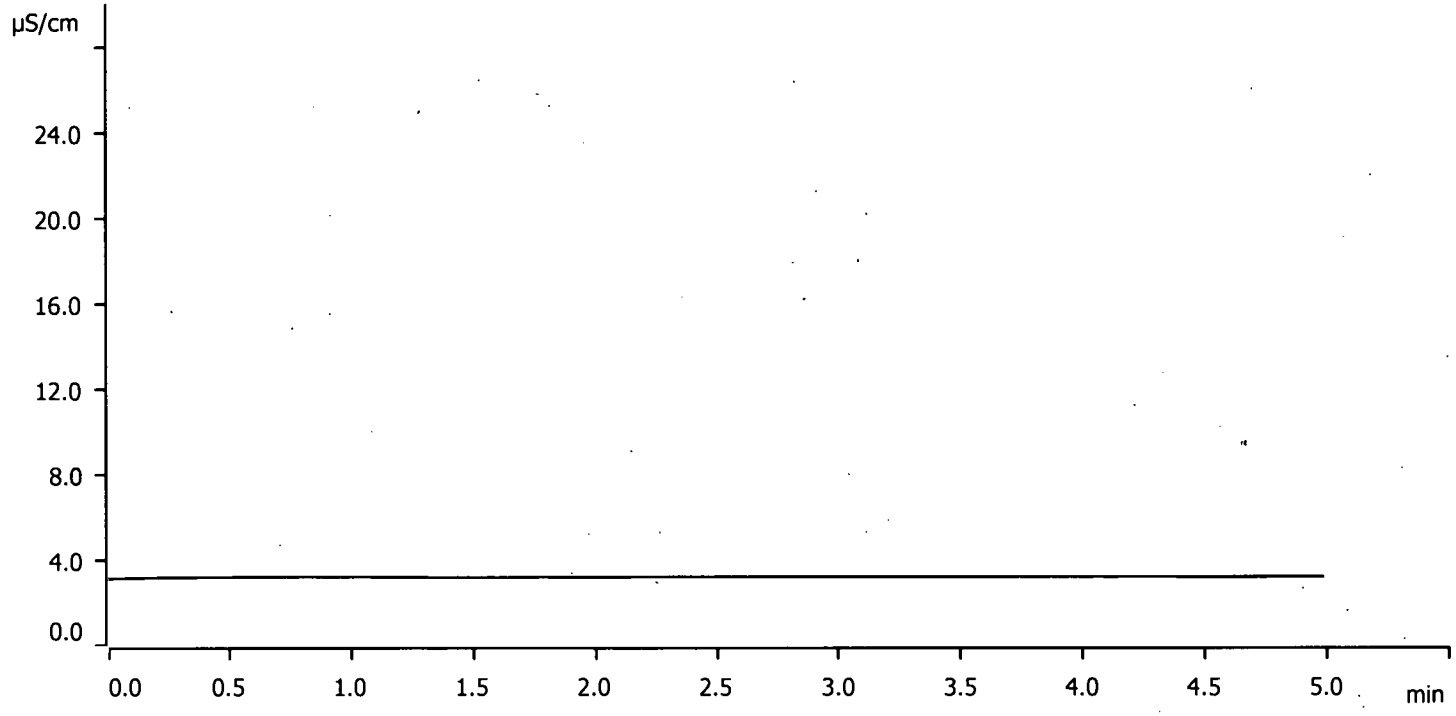
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.338	2.016	Fluoride	BB
2	1.92	0.398	4.109	Chloride	BB
3	2.22	0.480	2.076	Nitrite	BB
4	2.57	0.064	1.944	Bromide	BB
5	2.83	0.479	1.971	Nitrate	BB
6	4.30	0.268	4.010	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-14 08:50:39 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92210
Sample Position	14
Comment 1	300.0/9056A
Comment 2	

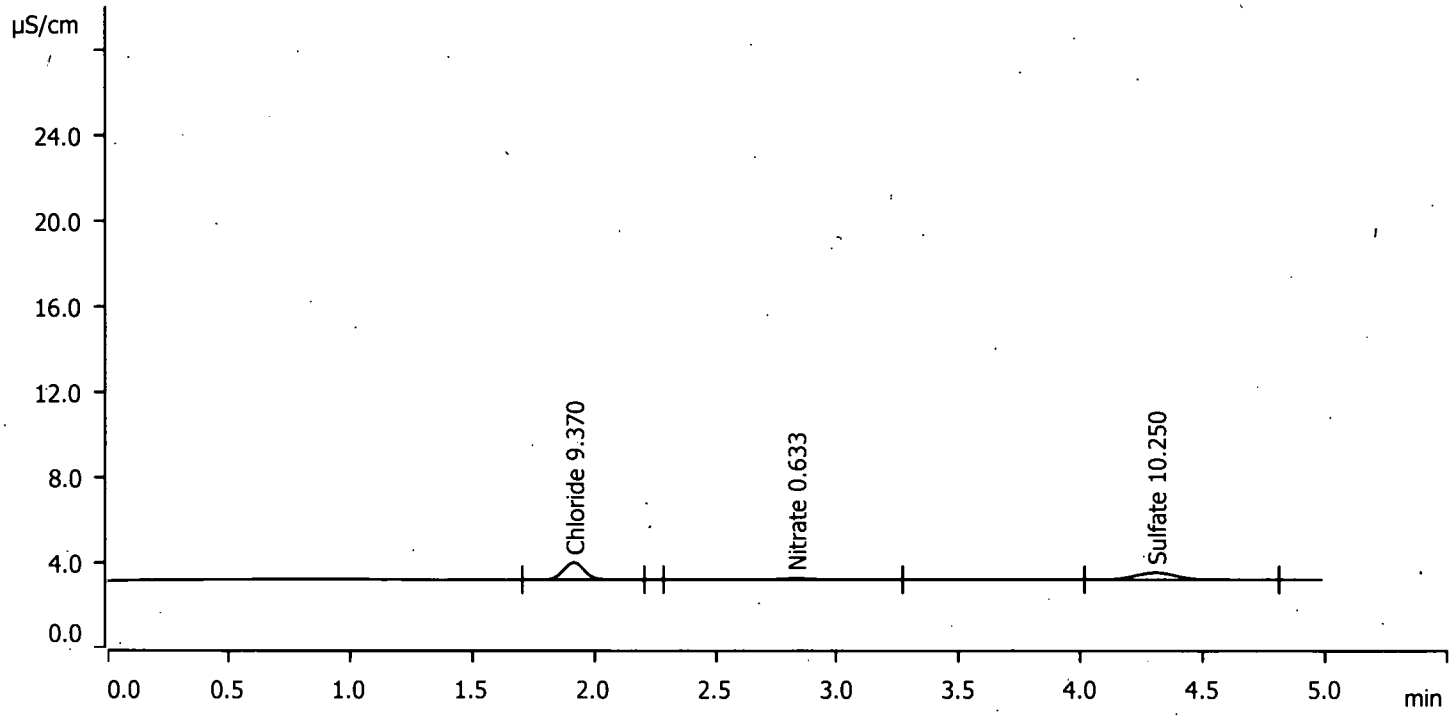
Anions



Sample data

Ident	R2409018-020
Sample type	Sample
Determination start	2024-09-14 08:56:53 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92211
Sample Position	15
Comment 1	300.0 NNS
Comment 2	GMM7 DUP

Anions



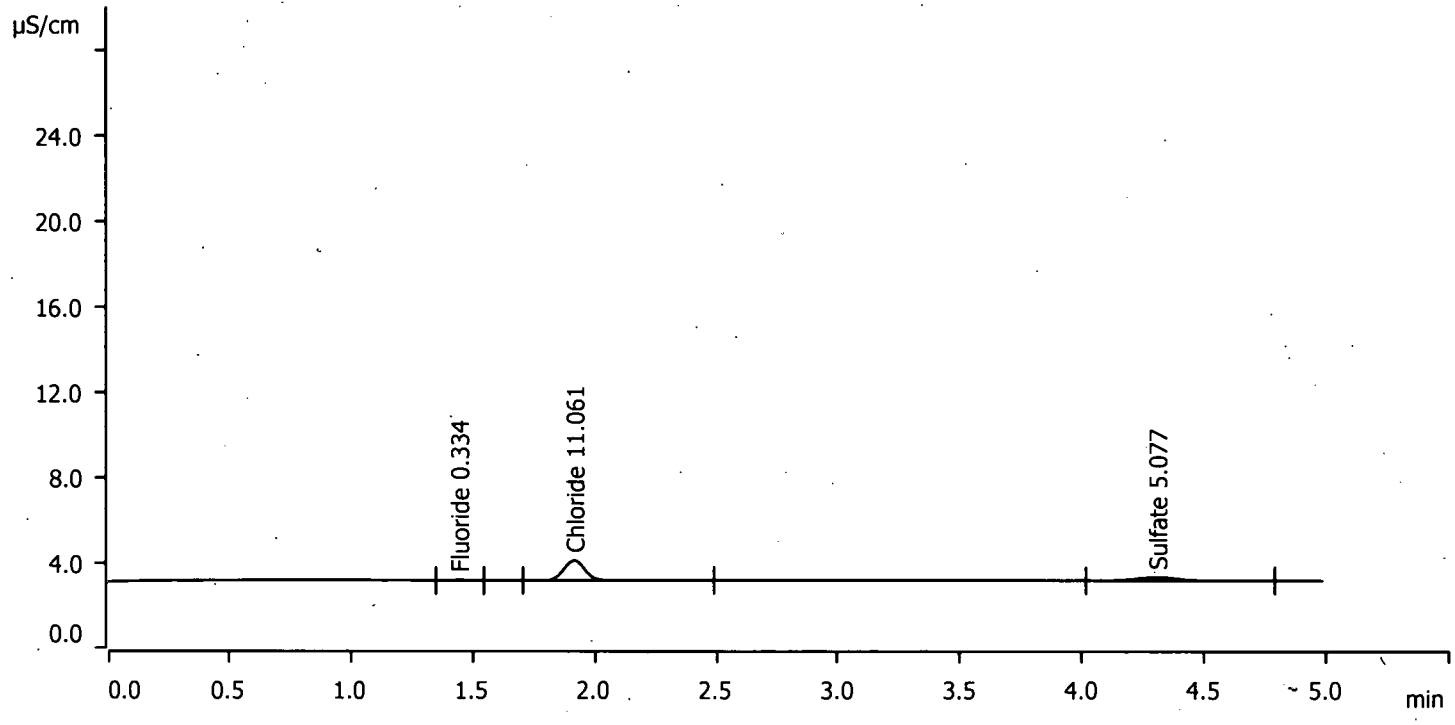
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.080	9.370	Chloride	BB
2	2.83	0.010	0.633	Nitrate	BB
3	4.31	0.064	10.250	Sulfate	BB

Sample data

Ident	R2409018-023
Sample type	Sample
Determination start	2024-09-14 09:03:09 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92212
Sample Position	16
Comment 1	300.0 NNS
Comment 2	GMMW5

Anions



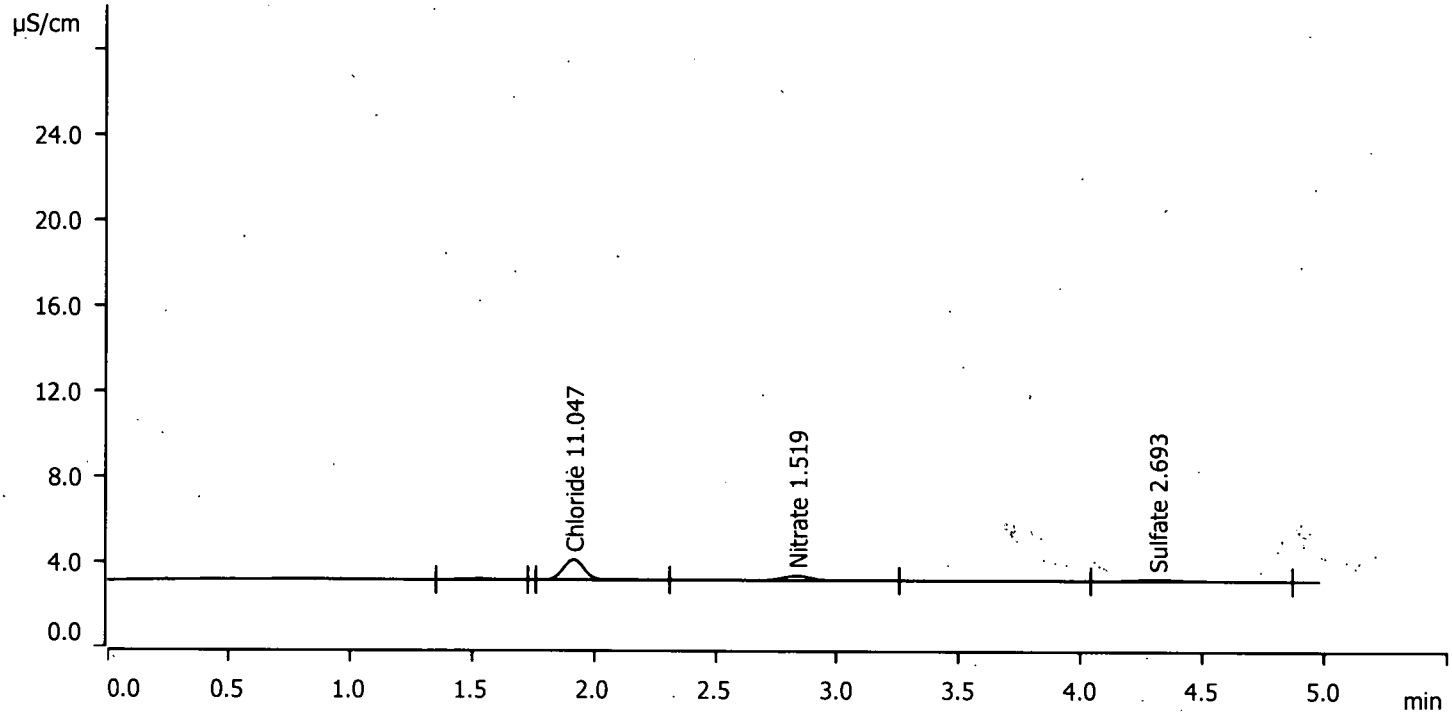
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.002	0.334	Fluoride	BB
2	1.92	0.096	11.061	Chloride	BB
3	4.31	0.032	5.077	Sulfate	BB

Sample data

Ident	R2409018-025
Sample type	Sample
Determination start	2024-09-14 09:09:25 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92213
Sample Position	17
Comment 1	300.0 NNS
Comment 2	GMMW6

Anions



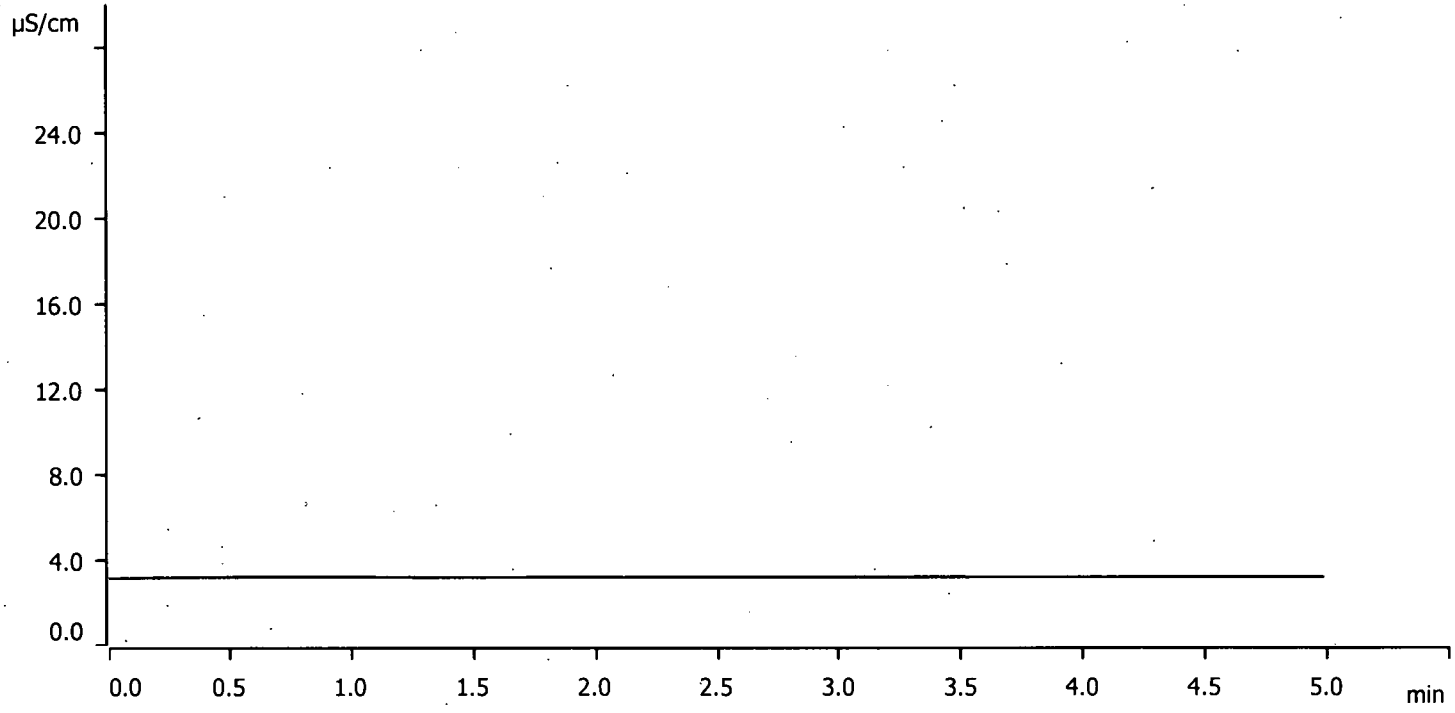
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.92	0.095	11.047	Chloride	BB
3	2.84	0.029	1.519	Nitrate	BB
4	4.31	0.017	2.693	Sulfate	BB

Sample data

Ident	R2409018-027
Sample type	Sample
Determination start	2024-09-14 09:15:40 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92214
Sample Position	18
Comment 1	300.0 NNS
Comment 2	EB

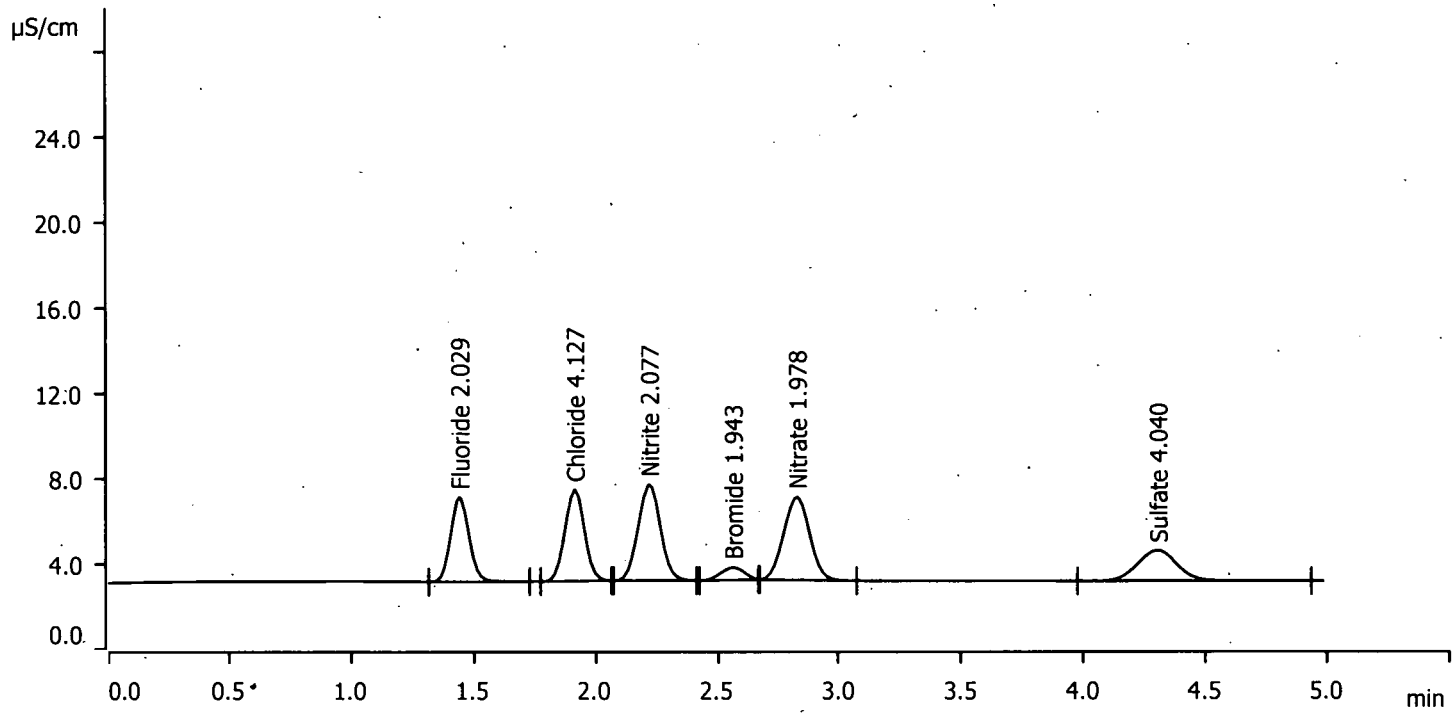
Anions



Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-14 09:21:54 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92215
Sample Position	19
Comment 1	300.0/9056A
Comment 2	

Anions



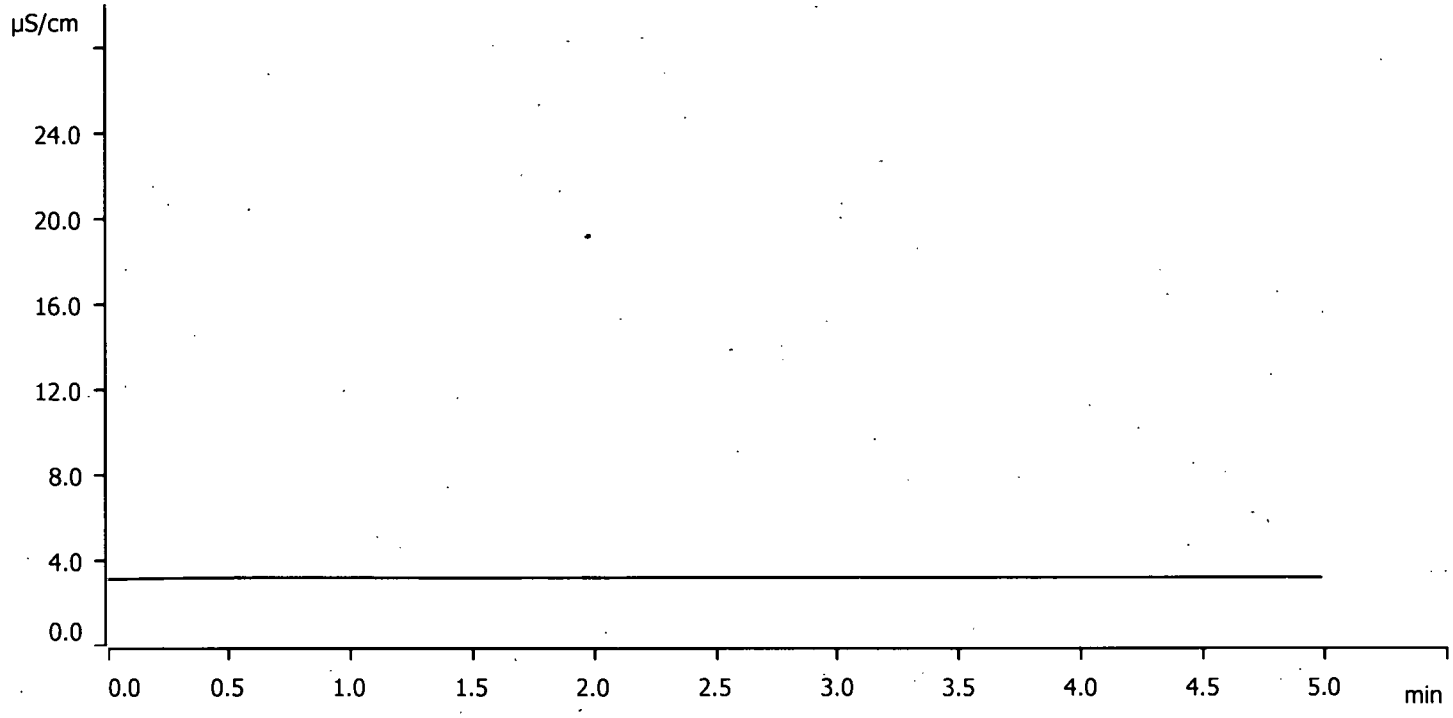
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.340	2.029	Fluoride	BB
2	1.92	0.400	4.127	Chloride	BB
3	2.22	0.480	2.077	Nitrite	BB
4	2.57	0.064	1.943	Bromide	BB
5	2.83	0.481	1.978	Nitrate	BB
6	4.30	0.271	4.040	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-14 09:28:12 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92216
Sample Position	20
Comment 1	300.0/9056A
Comment 2	

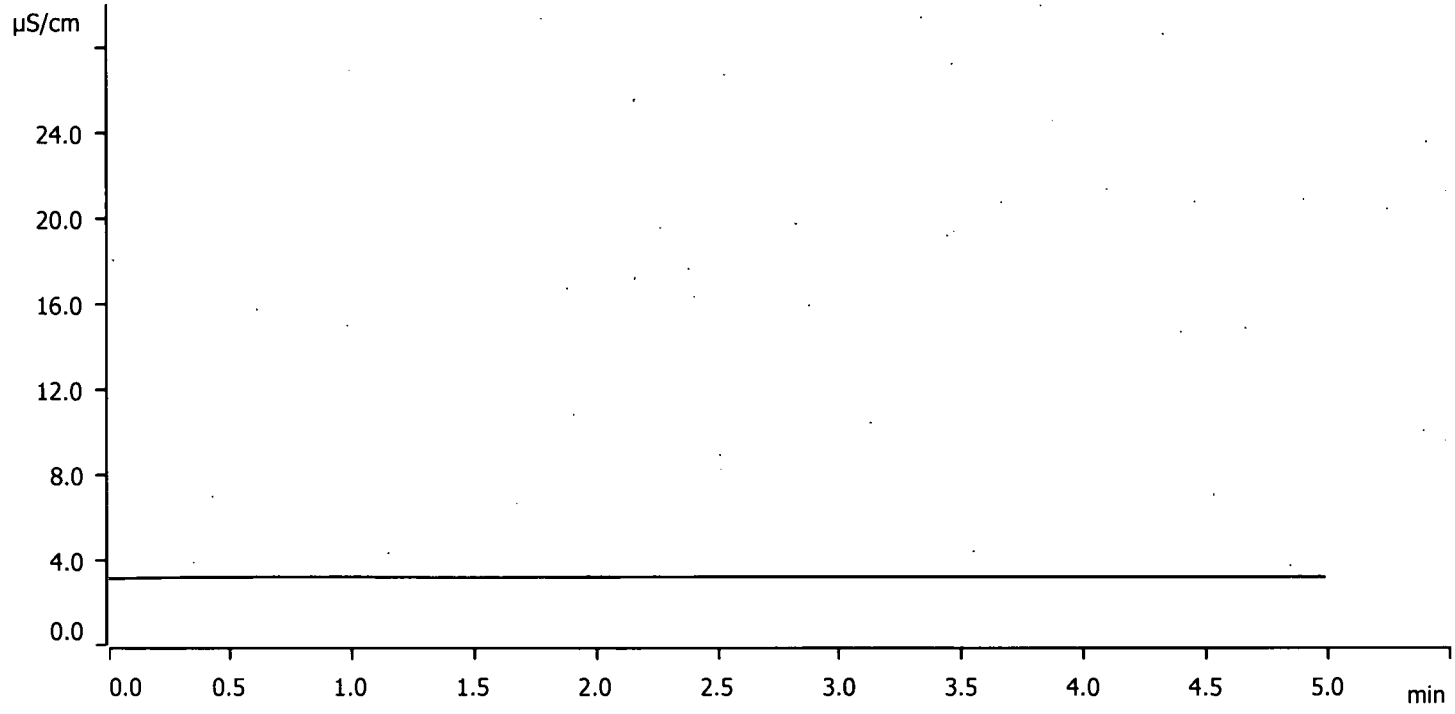
Anions



Sample data

Ident	LCS DNR
Sample type	Check standard 2
Determination start	2024-09-14 10:14:40 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92217
Sample Position	21
Comment 1	300.0/9056A
Comment 2	

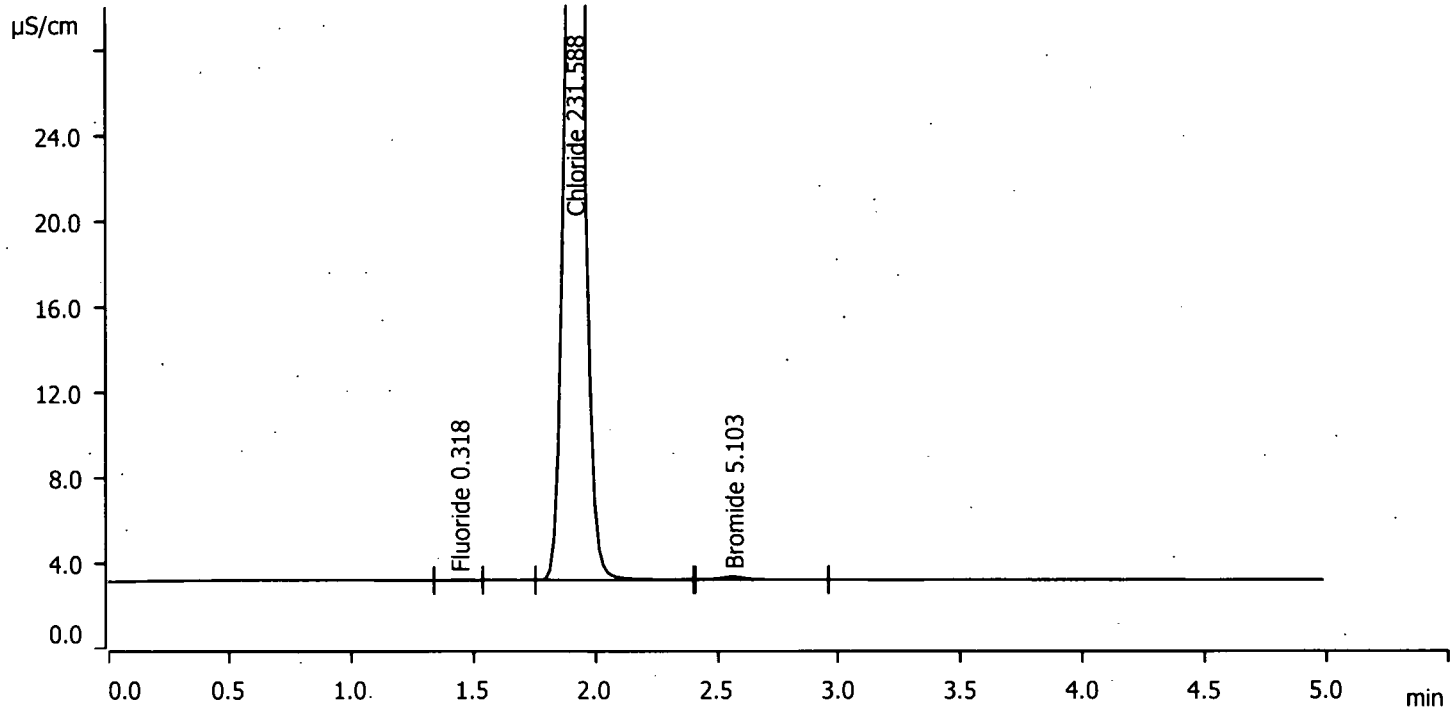
Anions



Sample data

Ident	R2409013-001 DNR
Sample type	Sample
Determination start	2024-09-14 10:20:54 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92218
Sample Position	22
Comment 1	300.0 CNS
Comment 2	

Anions



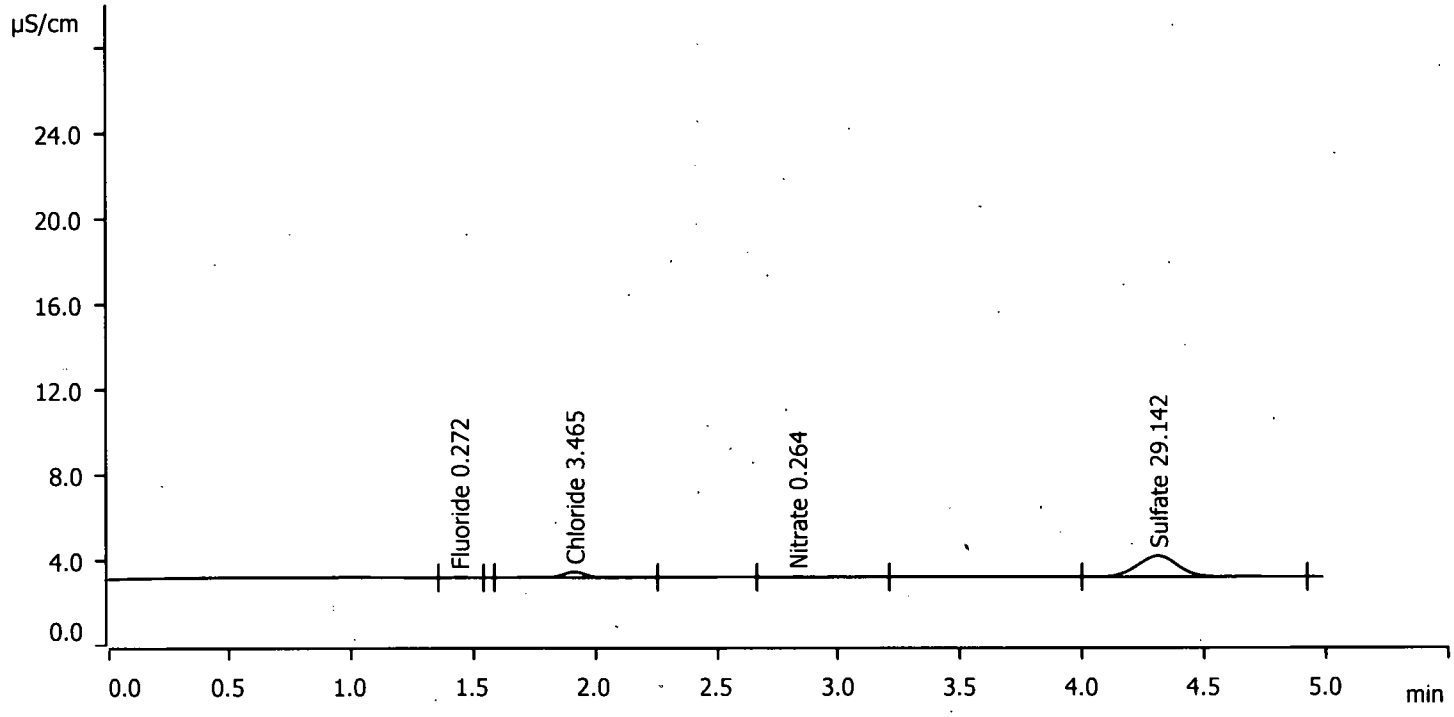
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.002	0.318	Fluoride	BB
2	1.92	3.610	231.588	Chloride	BB
3	2.57	0.016	5.103	Bromide	BBI

Sample data

Ident	R2409013-002 DNR
Sample type	Sample
Determination start	2024-09-14 10:27:08 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92219
Sample Position	23
Comment 1	300.0 CNS
Comment 2	

Anions



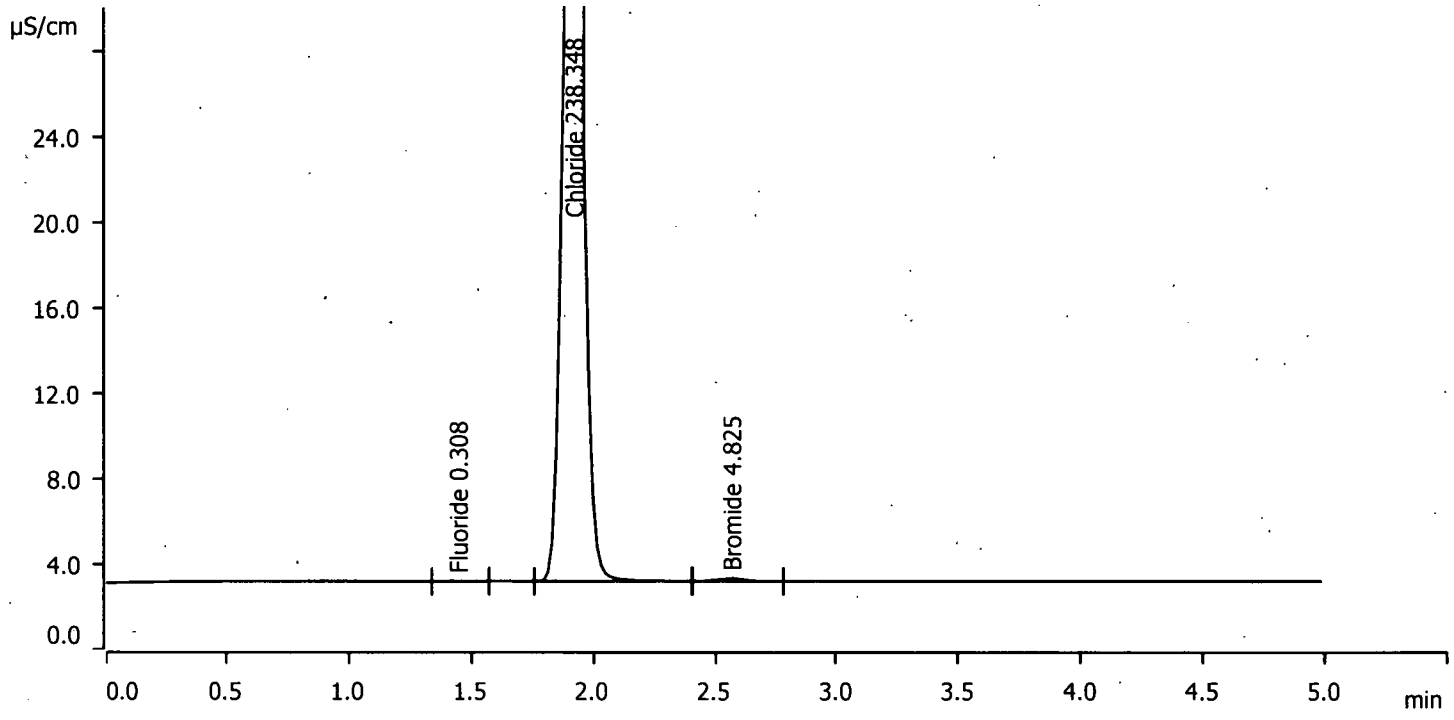
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.001	0.272	Fluoride	BB
2	1.92	0.028	3.465	Chloride	BB
3	2.83	0.002	0.264	Nitrate	BBI
4	4.31	0.191	29.142	Sulfate	BB

Sample data

Ident	R2409013-003 DNR
Sample type	Sample
Determination start	2024-09-14 10:34:17 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92220
Sample Position	24
Comment 1	300.0 CNS
Comment 2	

Anions



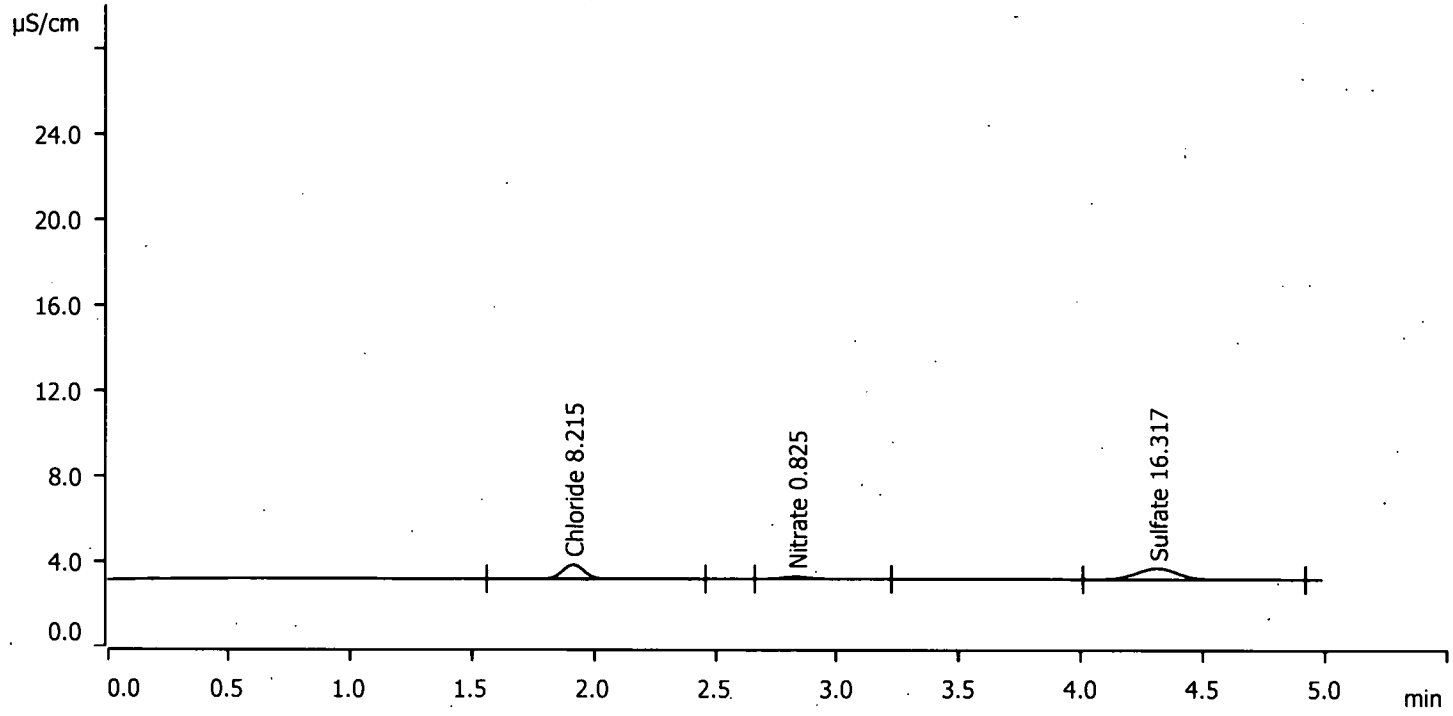
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.46	0.002	0.308	Fluoride	BB
2	1.92	3.765	238.348	Chloride	BB
3	2.57	0.015	4.825	Bromide	BB

Sample data

Ident	R2409013-004 DNR
Sample type	Sample
Determination start	2024-09-14 10:40:40 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92221
Sample Position	25
Comment 1	300.0 CNS
Comment 2	

Anions



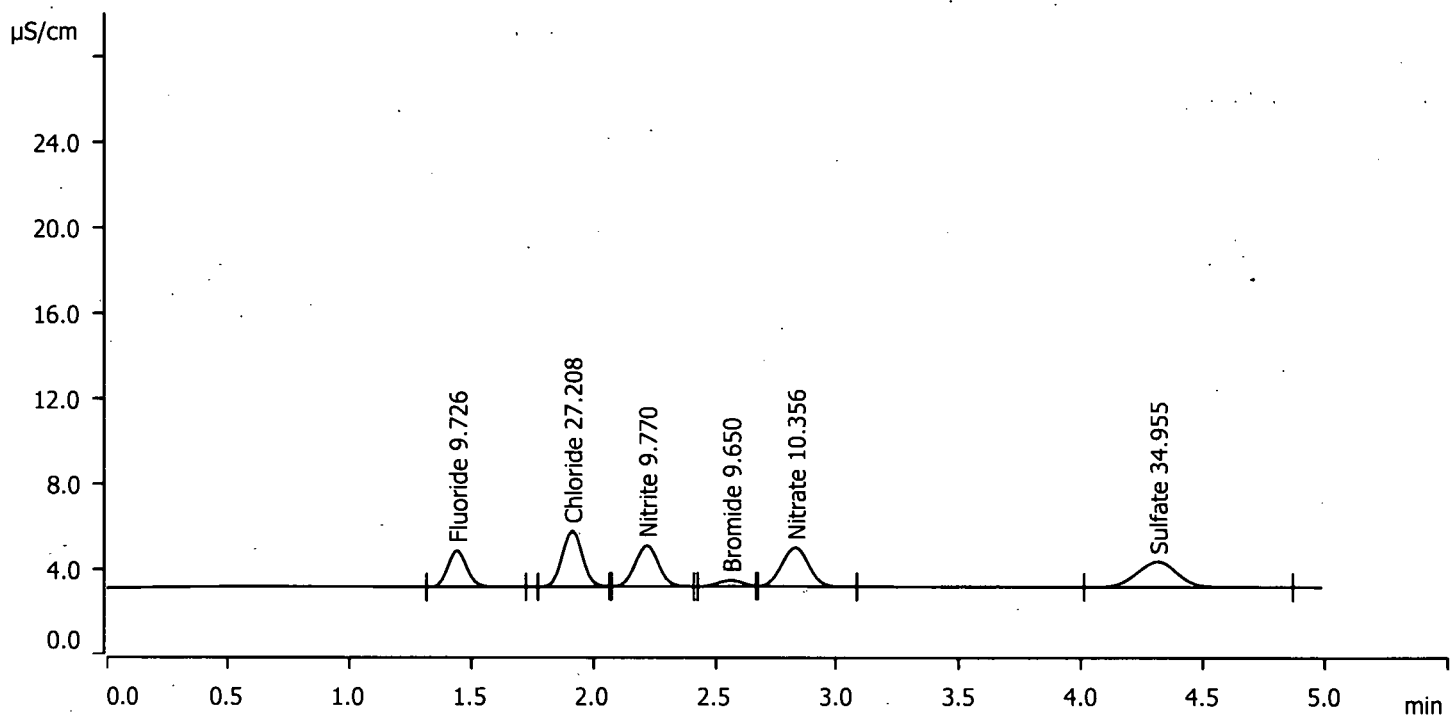
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.070	8.215	Chloride	BB
2	2.84	0.014	0.825	Nitrate	BB
3	4.31	0.104	16.317	Sulfate	BB

Sample data

Ident	R2409013-004 MS! DNR
Sample type	Sample
Determination start	2024-09-14 10:46:57 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92222
Sample Position	26
Comment 1	300.0 CNS
Comment 2	

Anions



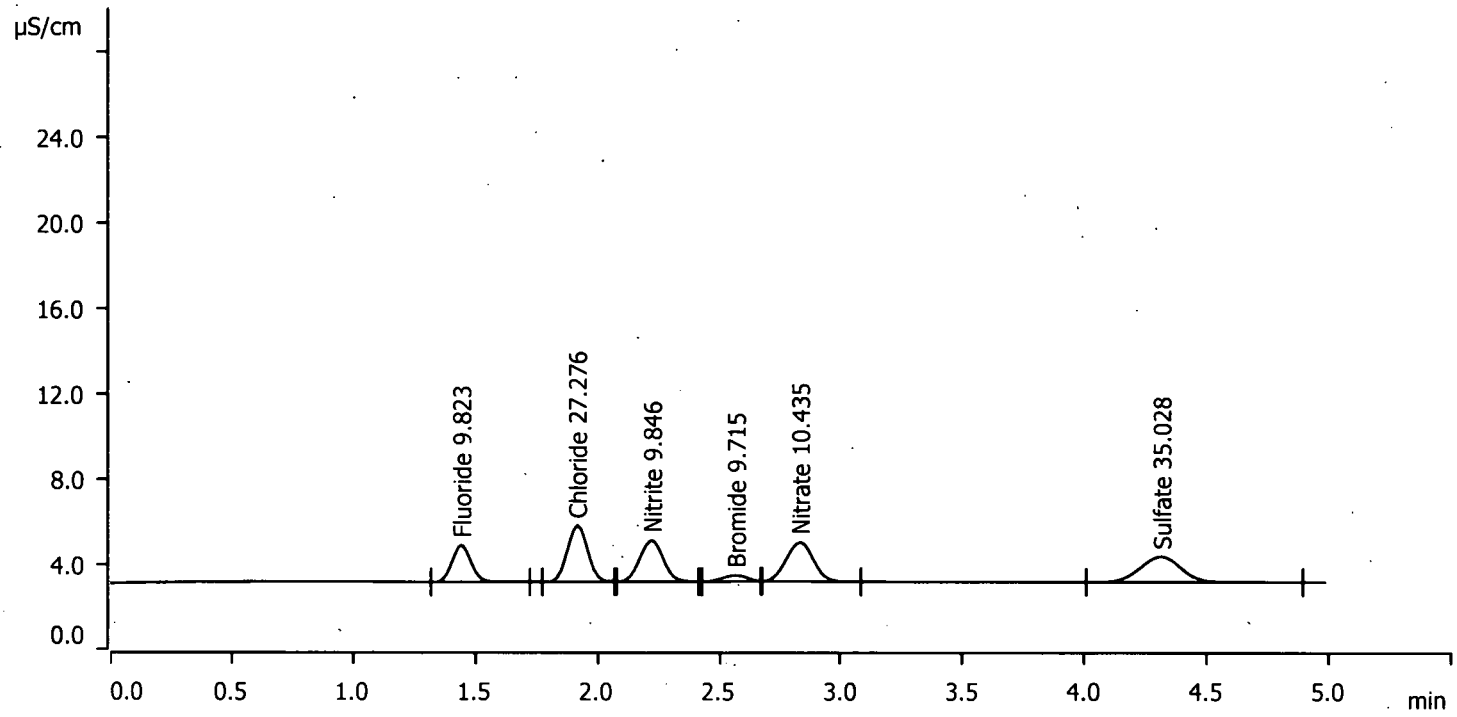
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.152	9.726	Fluoride	BB
2	1.92	0.251	27.208	Chloride	BB
3	2.22	0.211	9.770	Nitrite	BB
4	2.57	0.031	9.650	Bromide	BB
5	2.83	0.234	10.356	Nitrate	BB
6	4.31	0.231	34.955	Sulfate	BB

Sample data

Ident	R2409013-004 MSD! DNR
Sample type	Sample
Determination start	2024-09-14 10:53:14 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92223
Sample Position	27
Comment 1	300.0 CNS
Comment 2	

Anions



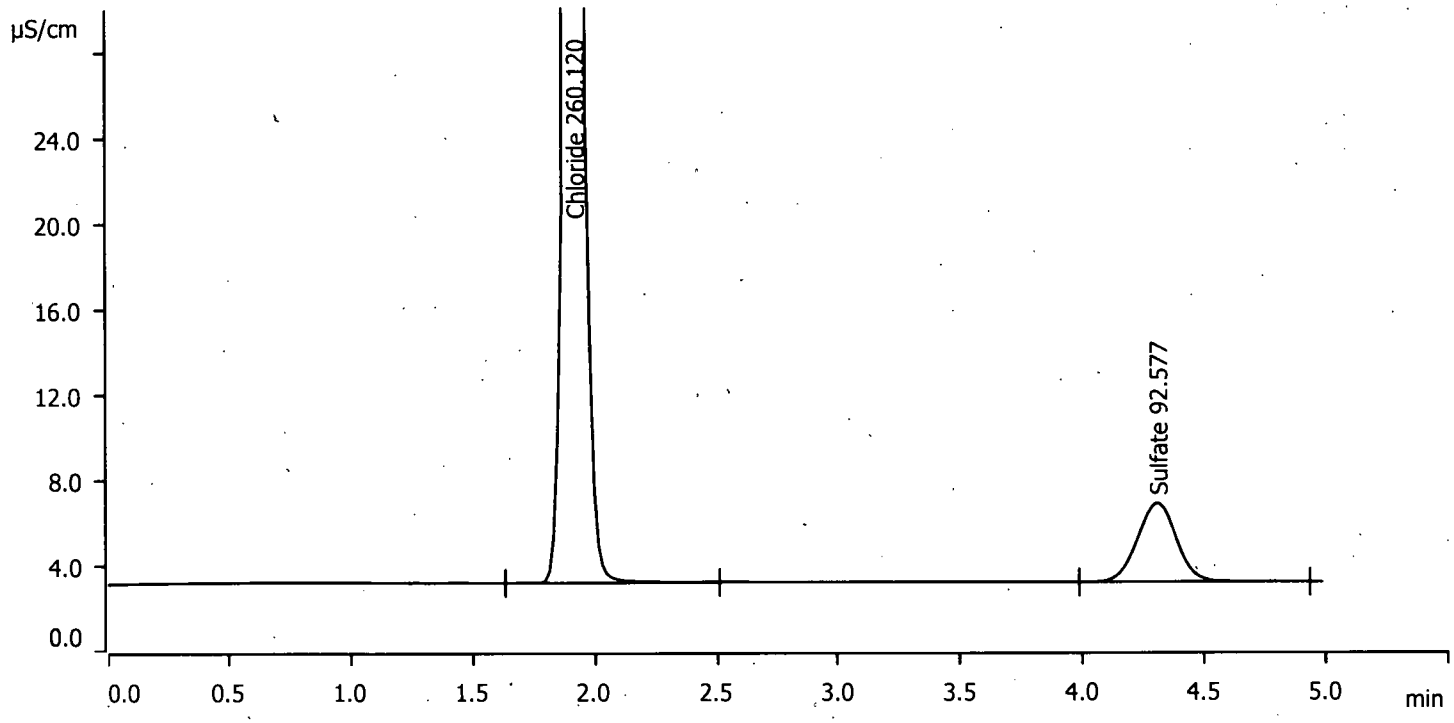
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.154	9.823	Fluoride	BB
2	1.92	0.252	27.276	Chloride	BB
3	2.23	0.212	9.846	Nitrite	BB
4	2.57	0.031	9.715	Bromide	BB
5	2.83	0.236	10.435	Nitrate	BB
6	4.31	0.232	35.028	Sulfate	BB

Sample data

Ident	R2408913-006 DNR
Sample type	Sample
Determination start	2024-09-14 10:59:30 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92224
Sample Position	28
Comment 1	300.0 CNS
Comment 2	

Anions



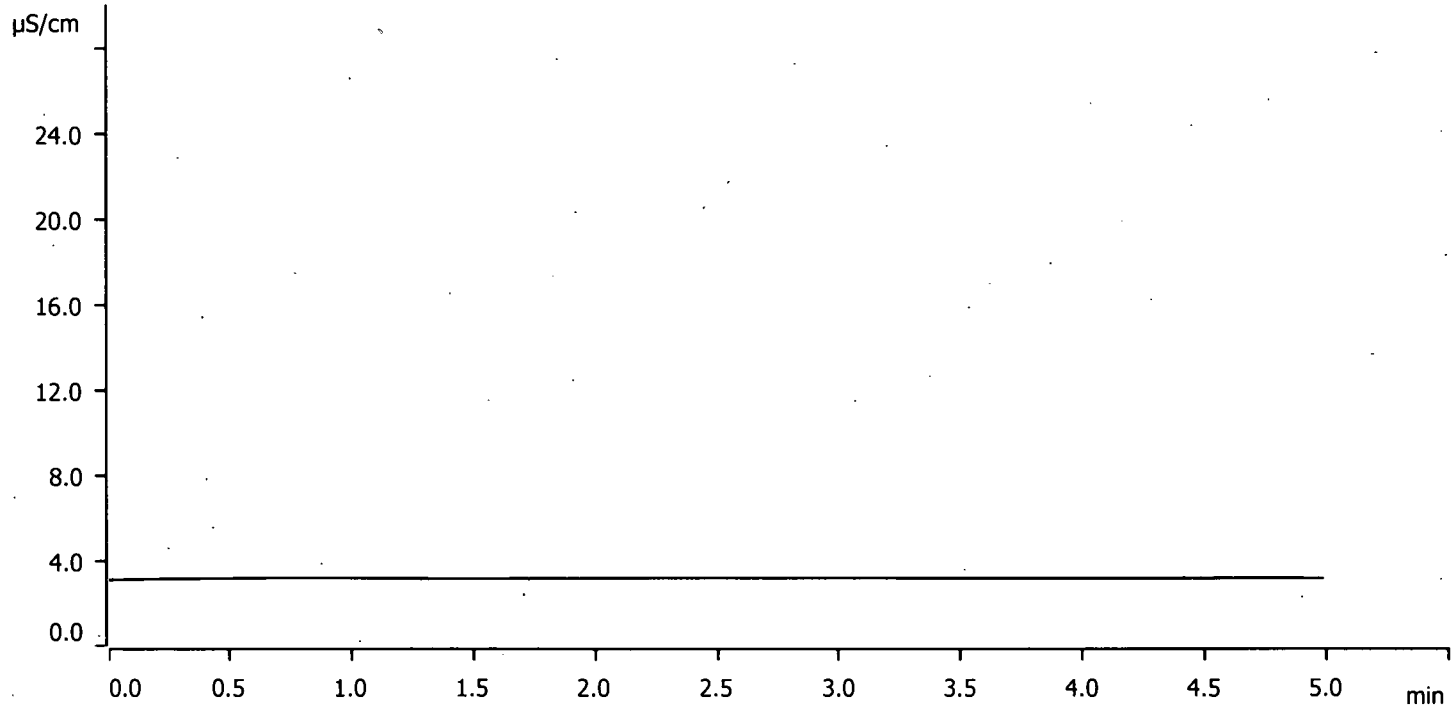
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	4.284	260.120	Chloride	BB
2	4.31	0.686	92.577	Sulfate	BB

Sample data

Ident	R2408913-007 DNR
Sample type	Sample
Determination start	2024-09-14 11:05:45 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92225
Sample Position	29
Comment 1	300.0 CNS
Comment 2	

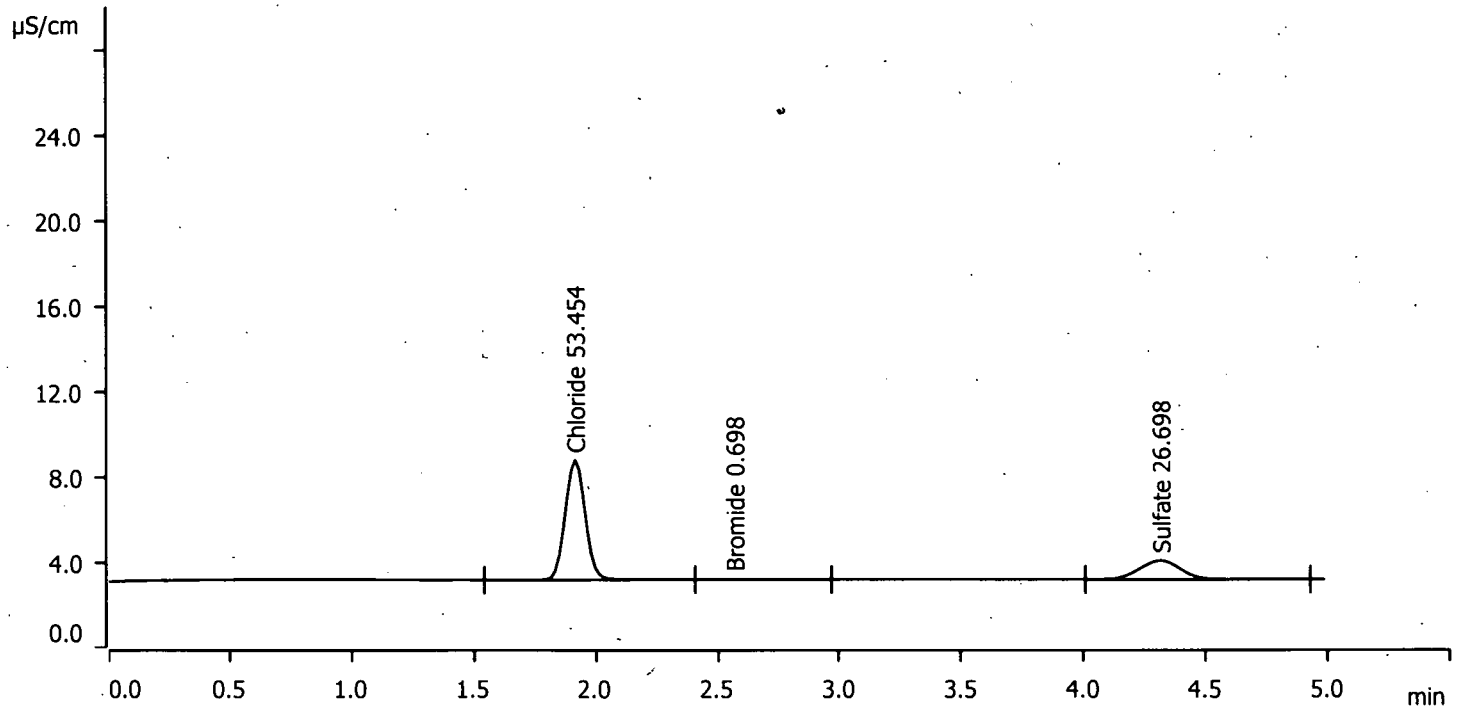
Anions



Sample data

Ident	R2408914-001 DNR
Sample type	Sample
Determination start	2024-09-14 11:12:00 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92226
Sample Position	30
Comment 1	300.0 CNS
Comment 2	

Anions



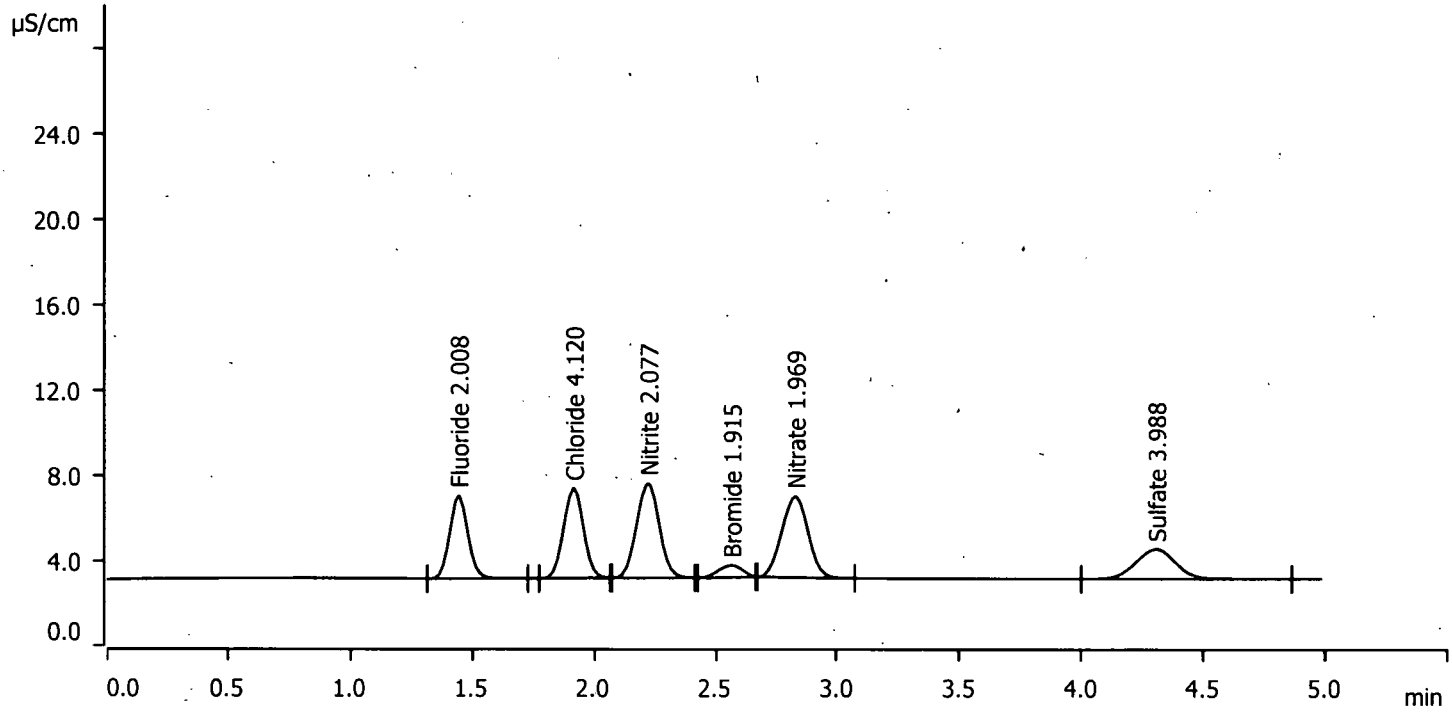
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.539	53.454	Chloride	BB
2	2.57	0.002	0.698	Bromide	BB
3	4.32	0.174	26.698	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-14 11:18:16 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92227
Sample Position	31
Comment 1	300.0/9056A
Comment 2	

Anions



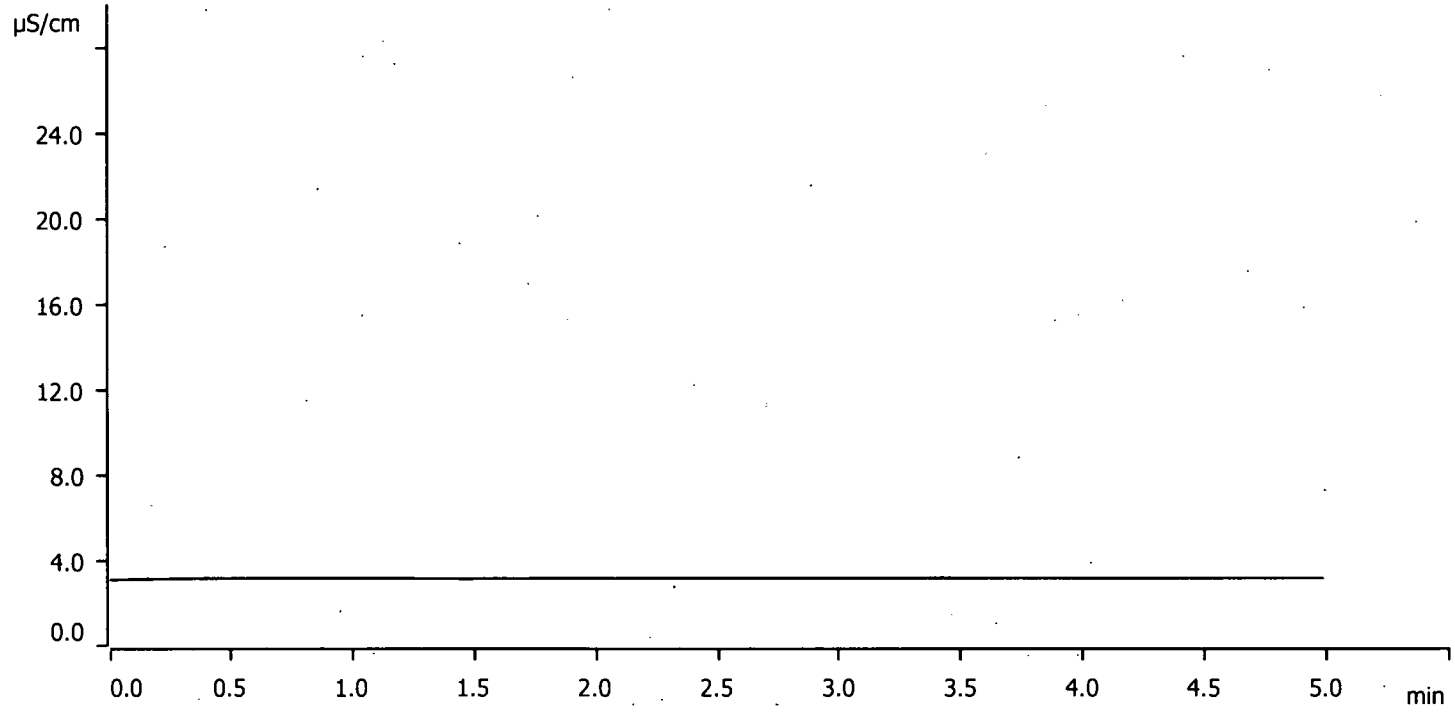
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.336	2.008	Fluoride	BB
2	1.92	0.399	4.120	Chloride	BB
3	2.23	0.480	2.077	Nitrite	BB
4	2.57	0.063	1.915	Bromide	BB
5	2.83	0.478	1.969	Nitrate	BB
6	4.31	0.267	3.988	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-14 11:24:33 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92228
Sample Position	32
Comment 1	300.0/9056A
Comment 2	

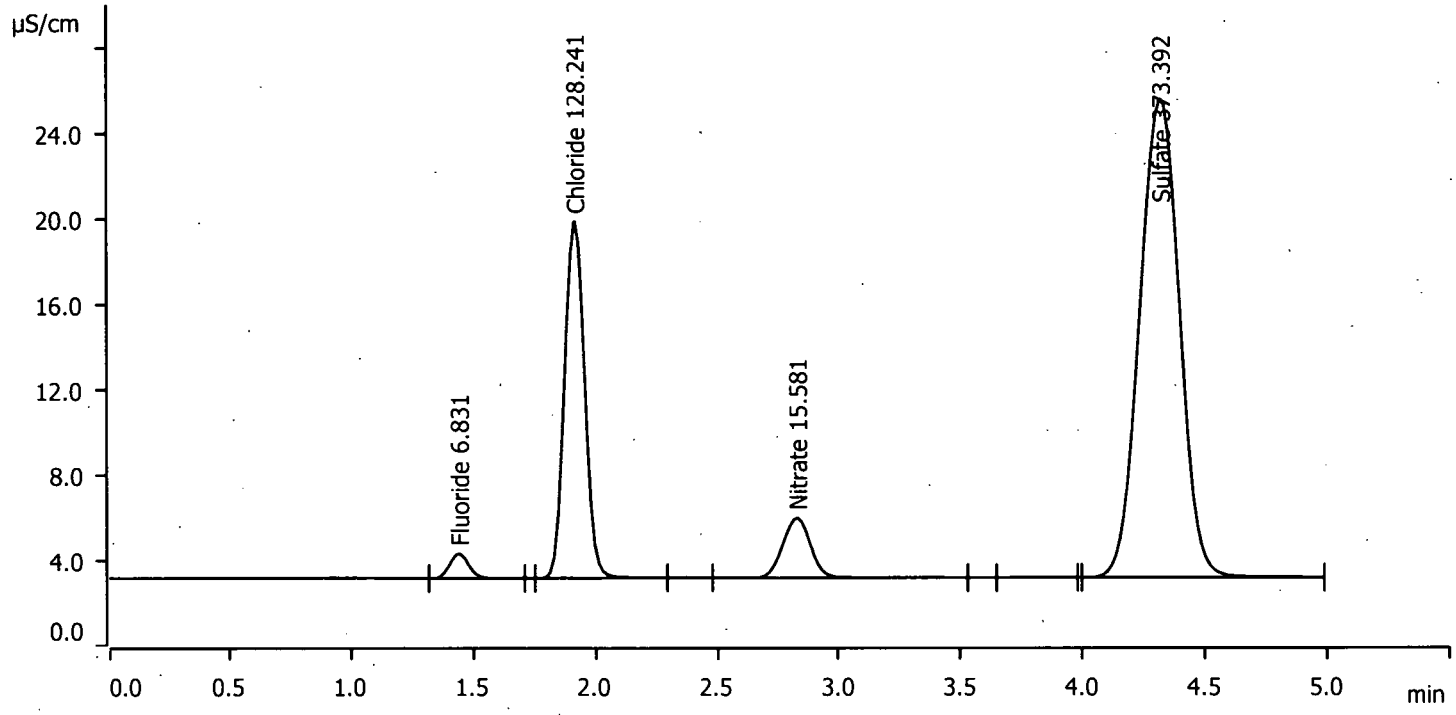
Anions



Sample data

Ident	R2409005-001 DNR
Sample type	Sample
Determination start	2024-09-14 12:11:24 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92232
Sample Position	33
Comment 1	300.0 NO2 C
Comment 2	OUT OF HOLD-NO CHAIN FROM SMO

Anions



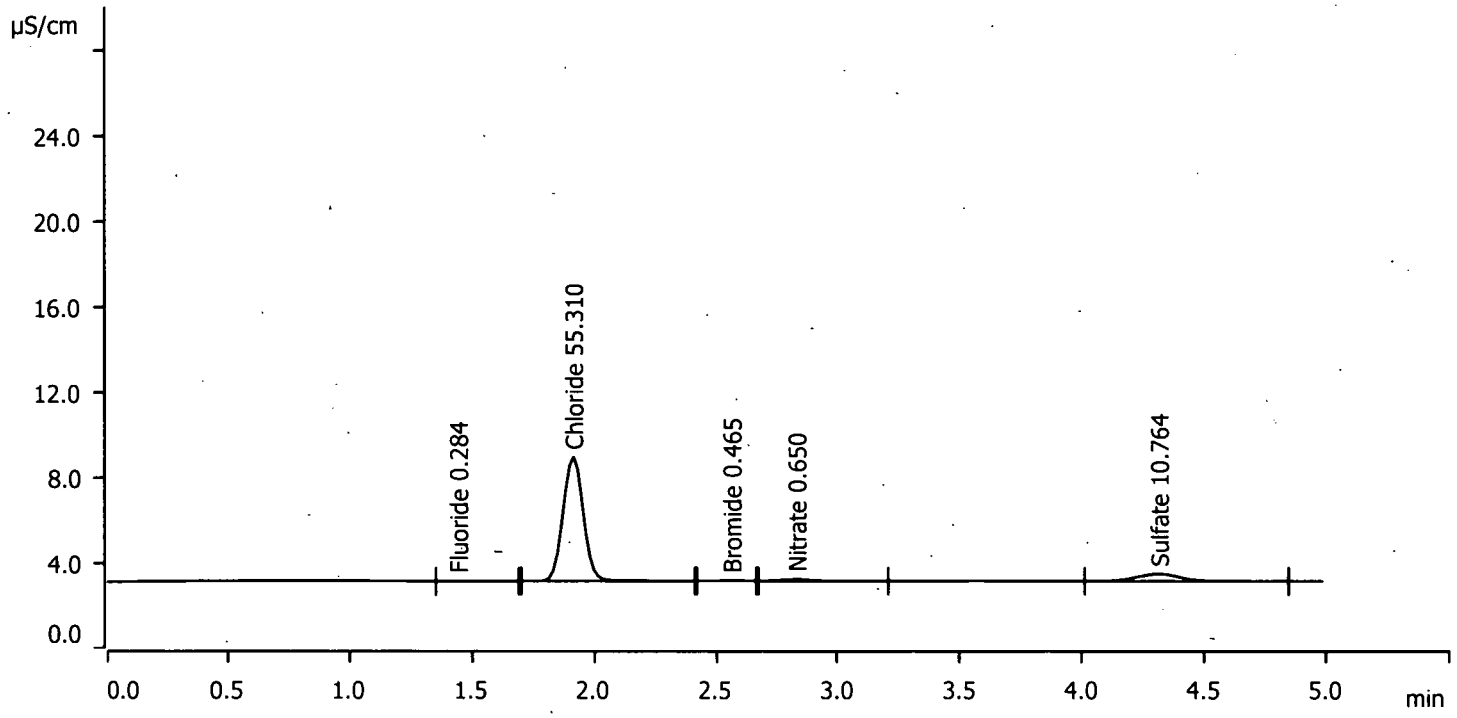
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.104	6.831	Fluoride	BB
2	1.92	1.591	128.241	Chloride	BB
3	2.83	0.367	15.581	Nitrate	BB
5	4.32	4.205	373.392	Sulfate	BB

Sample data

Ident	R2408912-001 DNR
Sample type	Sample
Determination start	2024-09-14 12:17:47 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92233
Sample Position	34
Comment 1	300.0 C NO3
Comment 2	

Anions



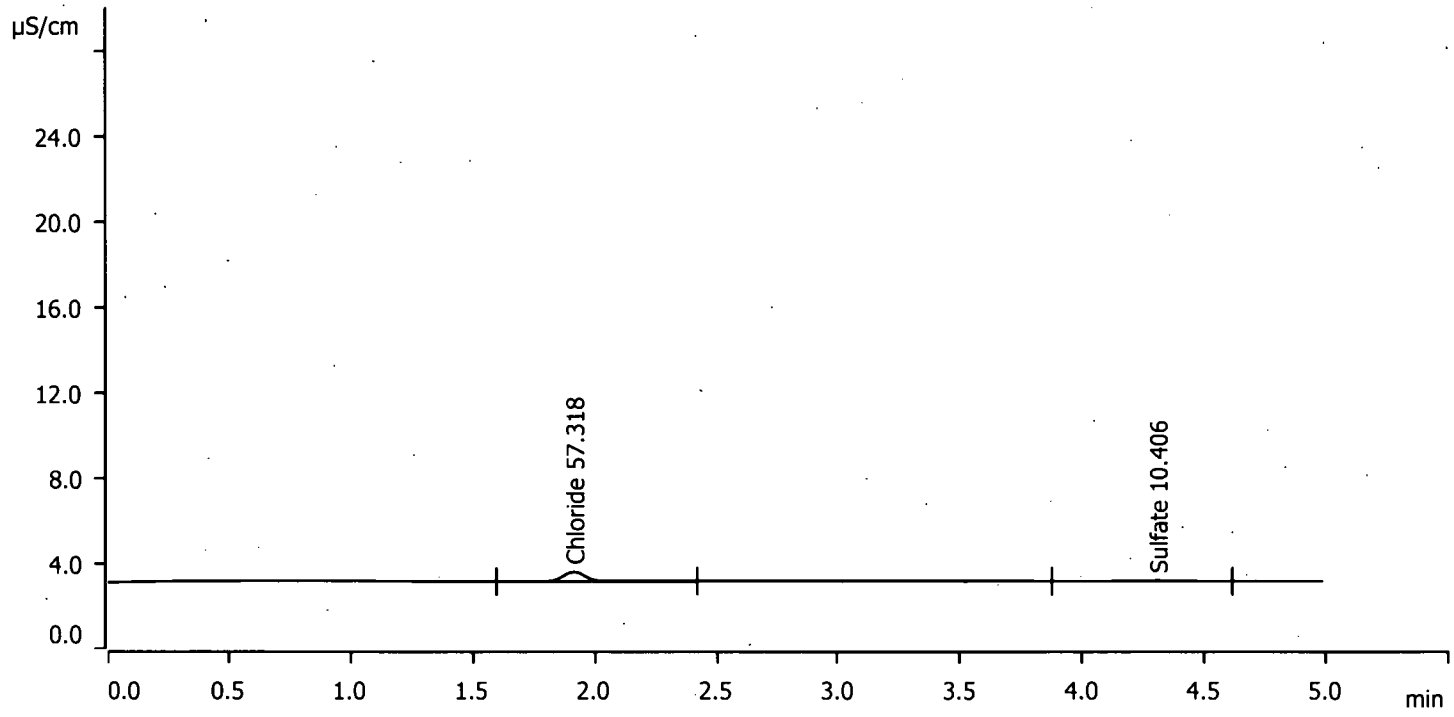
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.001	0.284	Fluoride	BB
2	1.92	0.561	55.310	Chloride	BB
3	2.57	0.001	0.465	Bromide	BB
4	2.83	0.010	0.650	Nitrate	BBI
5	4.31	0.068	10.764	Sulfate	BB

Sample data

Ident	R2408912-001 DNR
Sample type	Sample
Determination start	2024-09-14 12:24:03 UTC-4
Method	10-091224FAST
Dilution	100
Counter	92234
Sample Position	35
Comment 1	300.0 C NO3
Comment 2	

Anions



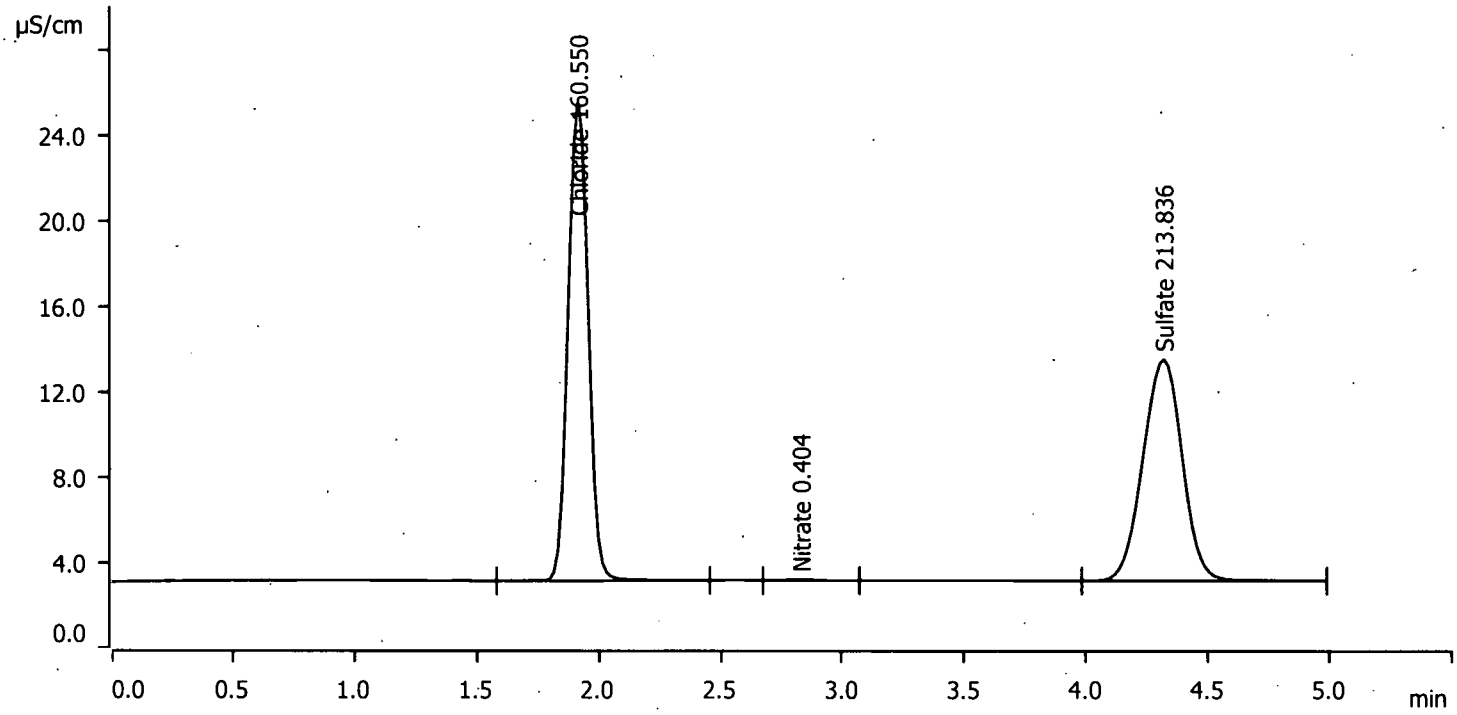
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.048	57.318	Chloride	BB
2	4.31	0.006	10.406	Sulfate	BB

Sample data

Ident	R2408385-007 DNR
Sample type	Sample
Determination start	2024-09-14 12:30:18 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92235
Sample Position	36
Comment 1	300.0 S
Comment 2	

Anions



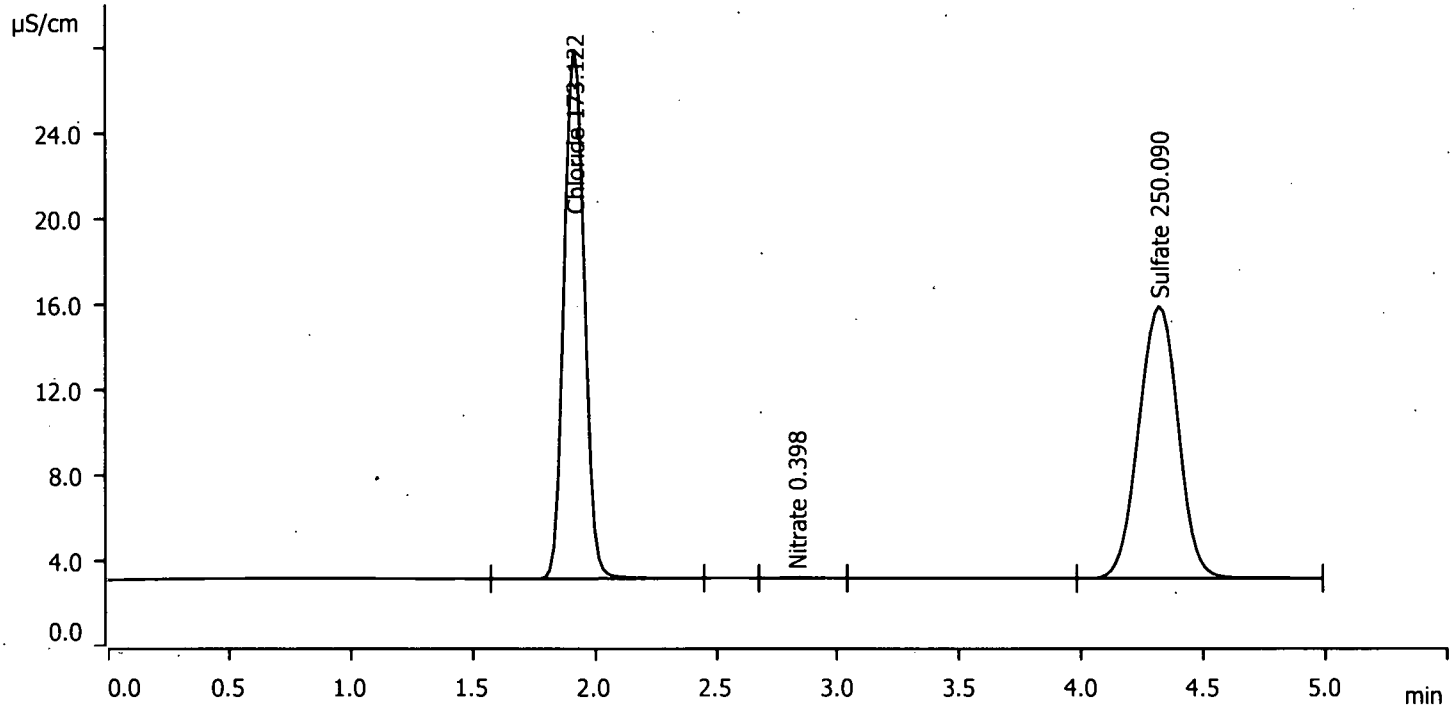
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	2.151	160.550	Chloride	BB
2	2.83	0.005	0.404	Nitrate	BB
3	4.32	1.941	213.836	Sulfate	BB

Sample data

Ident	R2408385-008 DNR
Sample type	Sample
Determination start	2024-09-14 12:36:33 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92236
Sample Position	37
Comment 1	300.0 S
Comment 2	

Anions



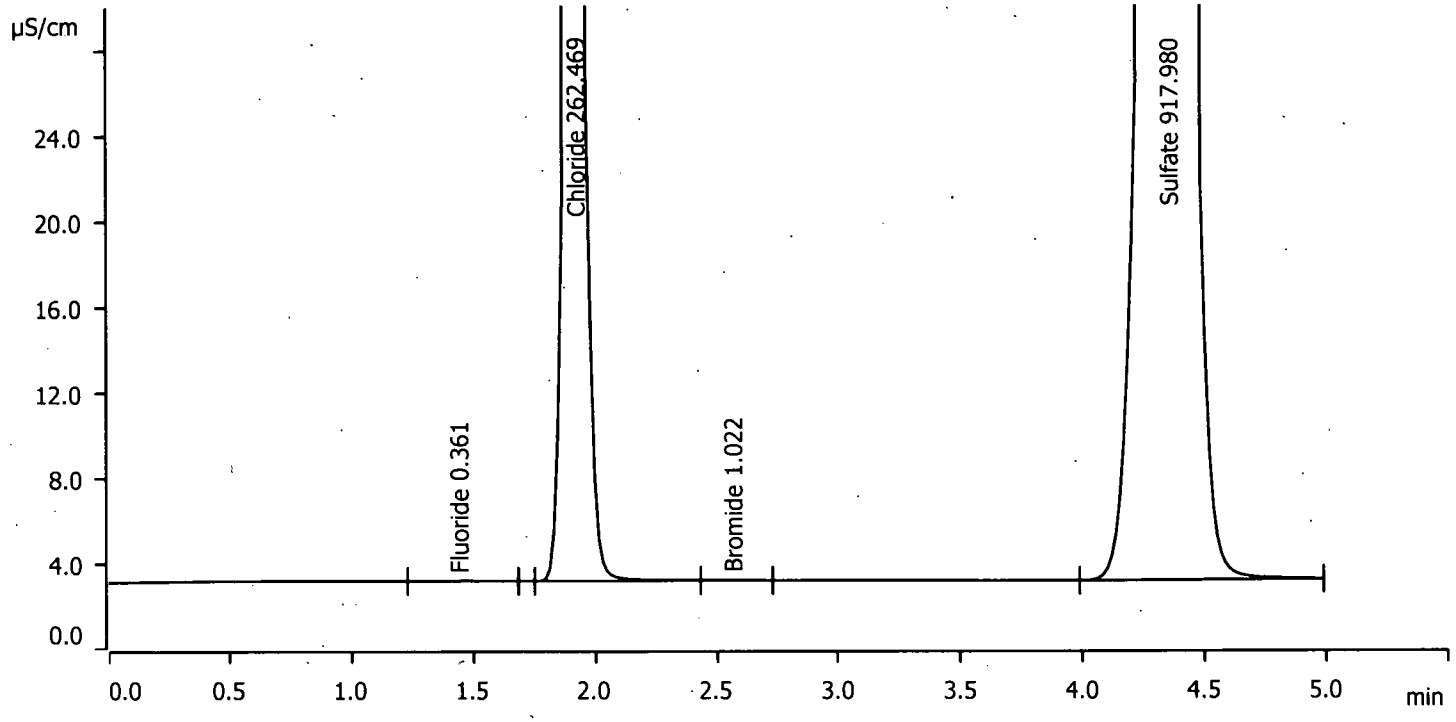
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	2.387	173.122	Chloride	BB
2	2.83	0.004	0.398	Nitrate	BB
3	4.32	2.394	250.090	Sulfate	BB

Sample data

Ident	R2408385-009 DNR
Sample type	Sample
Determination start	2024-09-14 12:42:48 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92237
Sample Position	38
Comment 1	300.0 S
Comment 2	

Anions



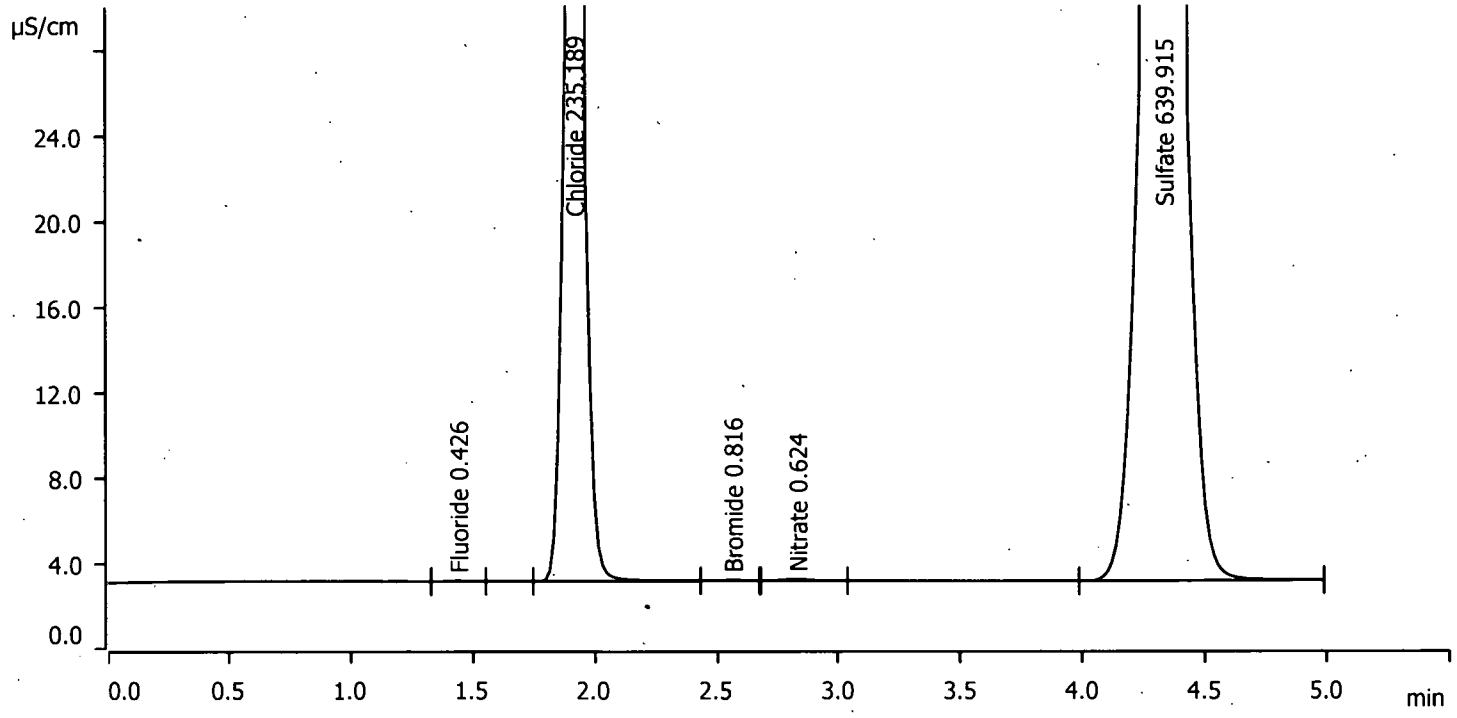
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.002	0.361	Fluoride	BB
2	1.92	4.341	262.469	Chloride	BB
3	2.57	0.003	1.022	Bromide	BB
4	4.36	17.192	917.980	Sulfate	BB

Sample data

Ident	R2408385-010 DNR
Sample type	Sample
Determination start	2024-09-14 12:49:04 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92238
Sample Position	39
Comment 1	300.0 S
Comment 2	

Anions



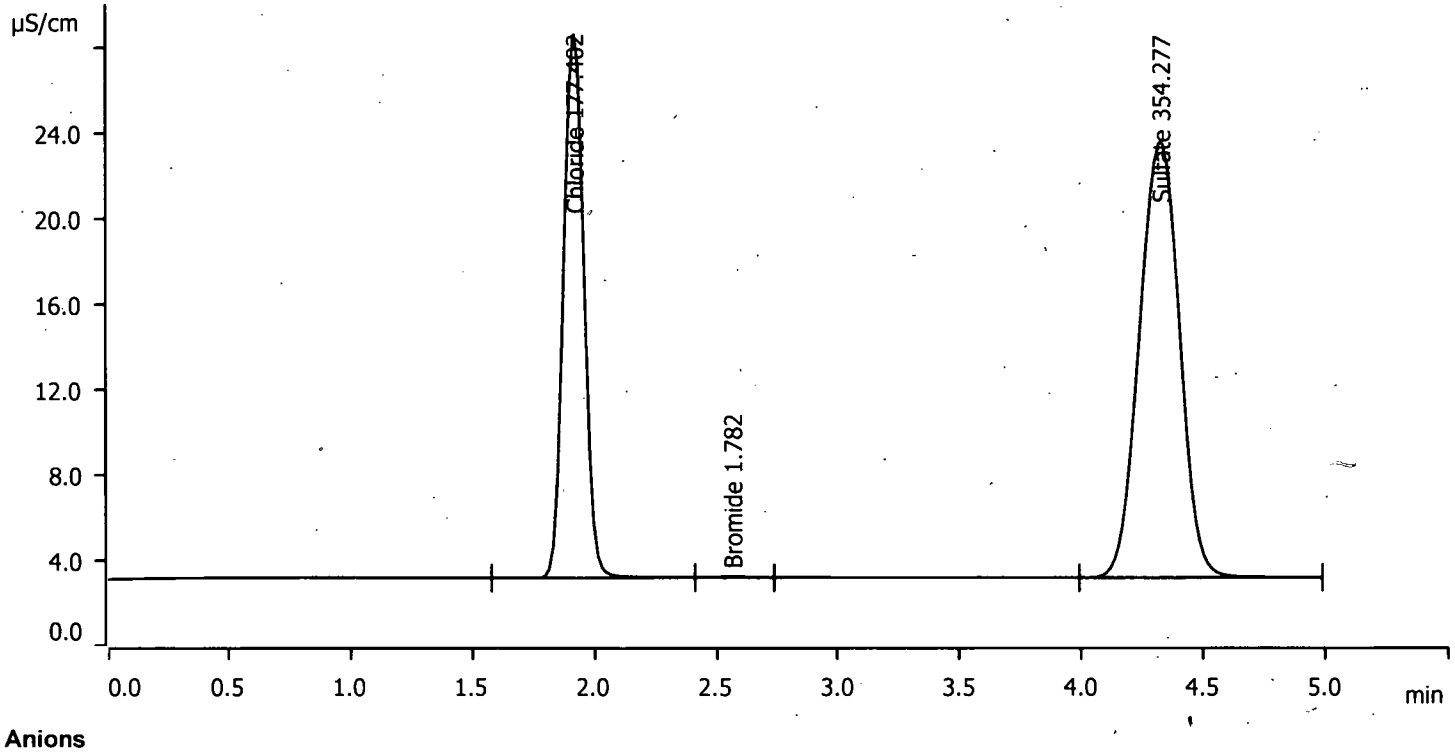
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.003	0.426	Fluoride	BB
2	1.92	3.693	235.189	Chloride	BB
3	2.57	0.002	0.816	Bromide	BB
4	2.83	0.009	0.624	Nitrate	BB
5	4.34	9.545	639.915	Sulfate	BB

Sample data

Ident	R2408385-013 DNR
Sample type	Sample
Determination start	2024-09-14 12:55:21 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92239
Sample Position	40
Comment 1	300.0 S
Comment 2	

Anions



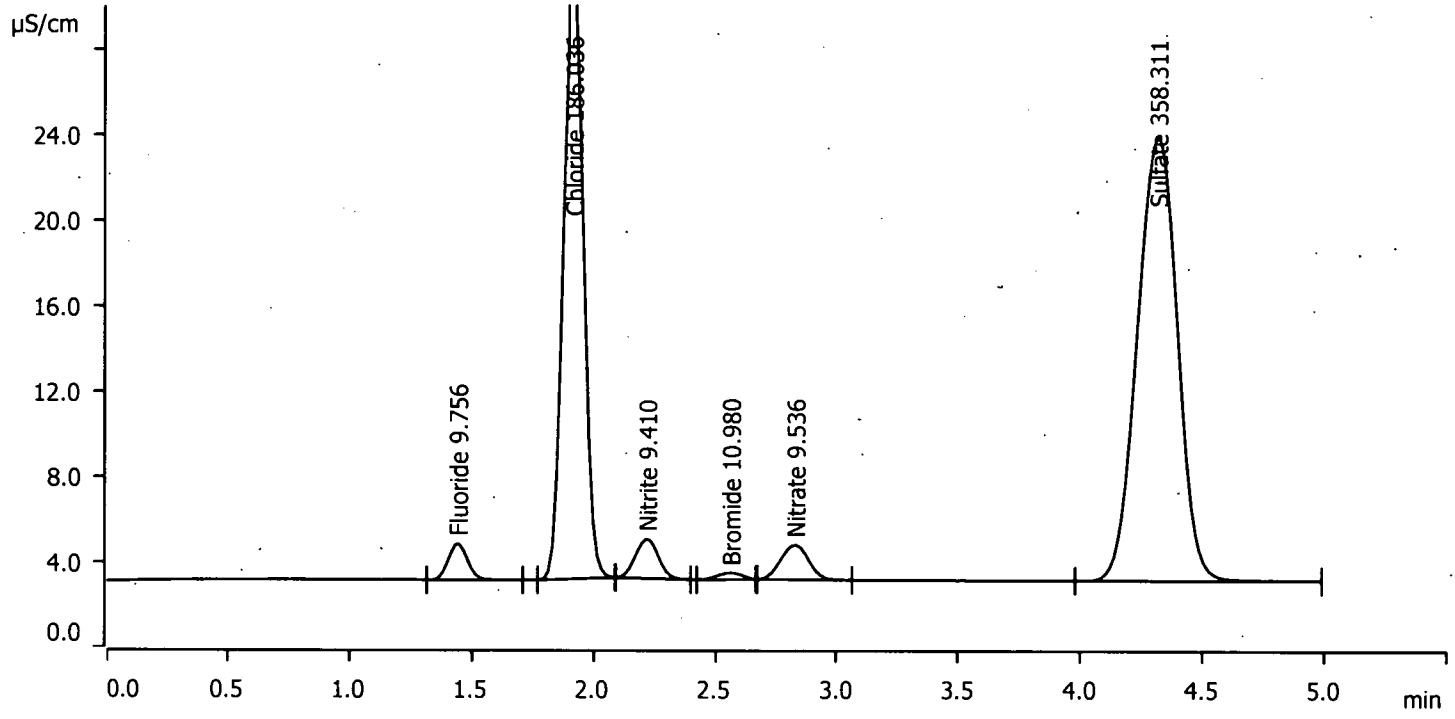
Anions

Peak number	Retention time	Area	Concentration	Component name	Type
	min	(µS/cm) x min	ppm		
1	1.92	2.469	177.402	Chloride	BB
2	2.57	0.006	1.782	Bromide	BB
3	4.33	3.897	354.277	Sulfate	BB

Sample data

Ident	R2408385-013 MS DNR
Sample type	Sample
Determination start	2024-09-14 13:01:36 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92240
Sample Position	41
Comment 1	300.0 S
Comment 2	

Anions



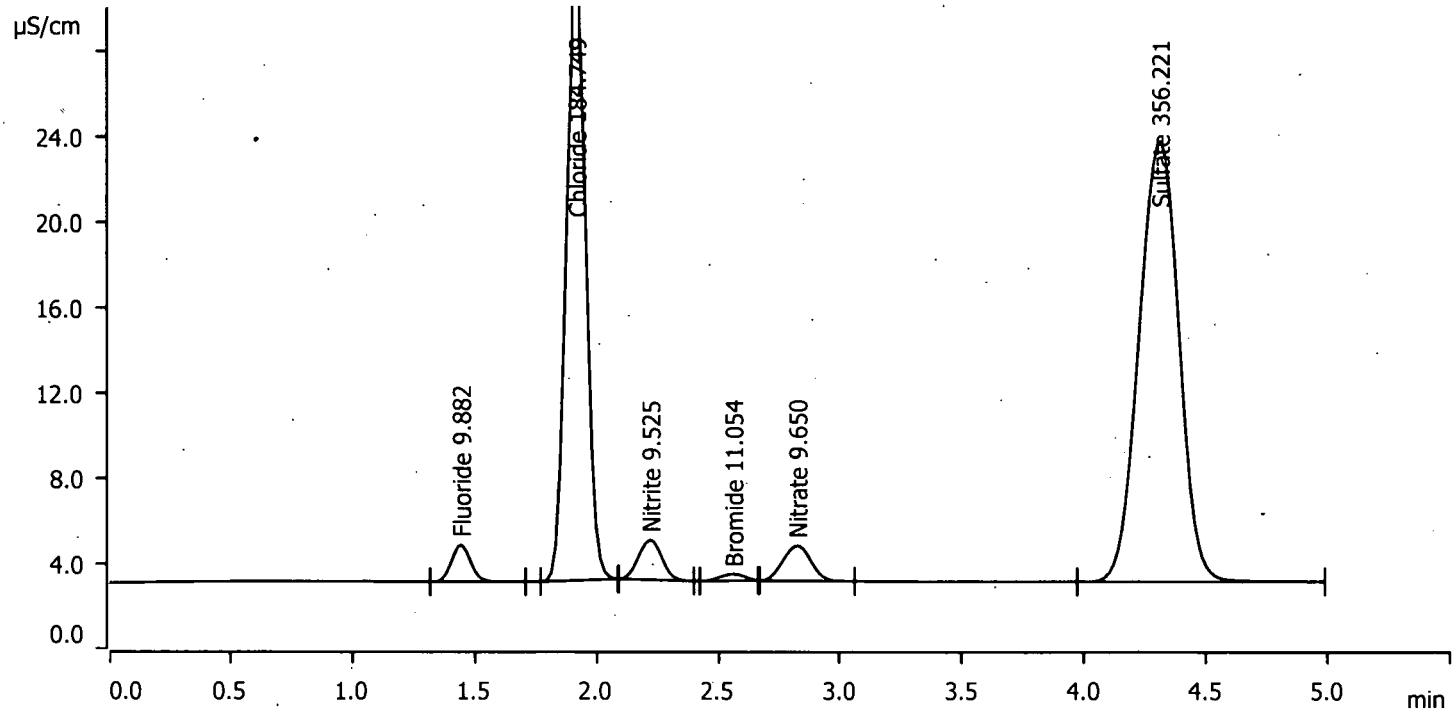
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.153	9.756	Fluoride	BB
2	1.92	2.639	186.036	Chloride	BB
3	2.22	0.202	9.410	Nitrite	BB
4	2.57	0.035	10.980	Bromide	BB
5	2.83	0.214	9.536	Nitrate	BB
6	4.32	3.961	358.311	Sulfate	BB

Sample data

Ident	R2408385-013 MSD DNR
Sample type	Sample
Determination start	2024-09-14 13:07:51 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92241
Sample Position	42
Comment 1	300.0 S
Comment 2	

Anions



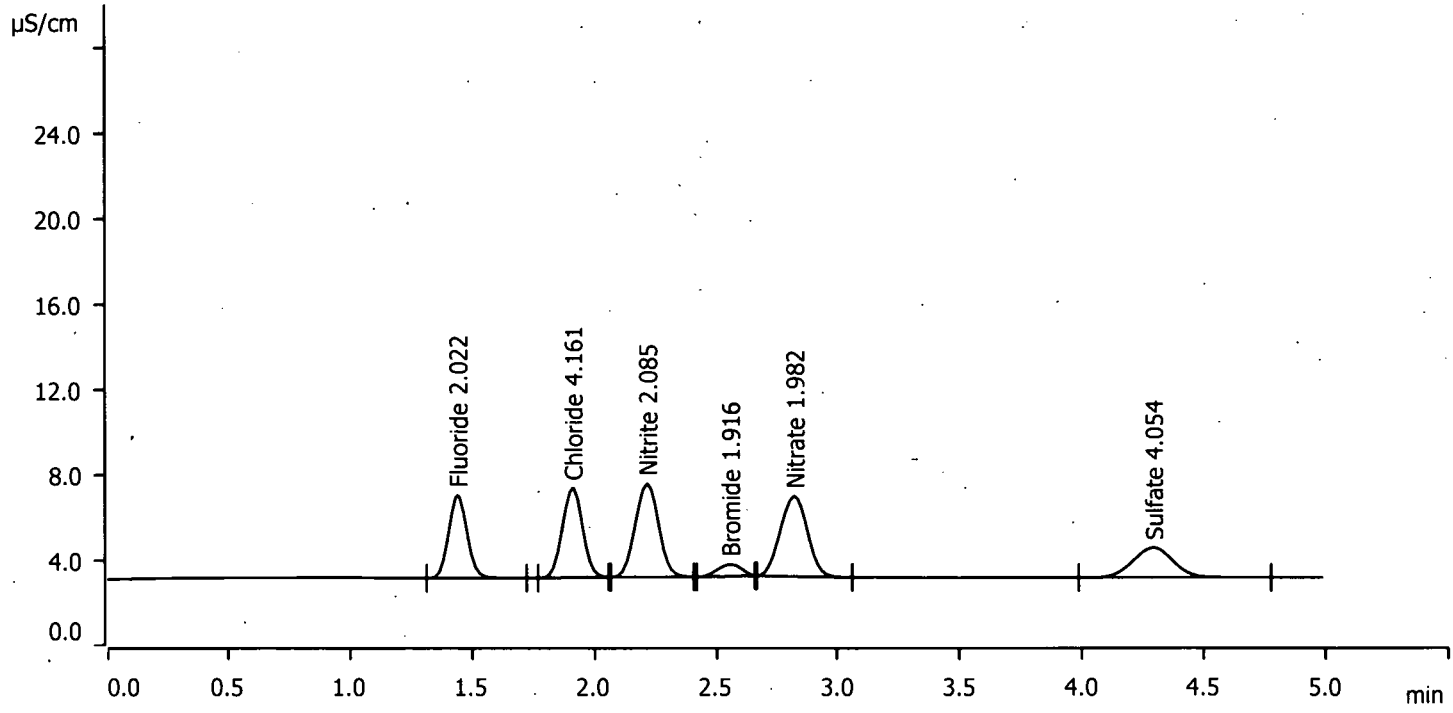
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.155	9.882	Fluoride	BB
2	1.92	2.613	184.749	Chloride	BB
3	2.22	0.205	9.525	Nitrite	BB
4	2.57	0.036	11.054	Bromide	BB
5	2.83	0.216	9.650	Nitrate	BB
6	4.31	3.928	356.221	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-14 13:14:07 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92242
Sample Position	43
Comment 1	300.0/9056A
Comment 2	

Anions



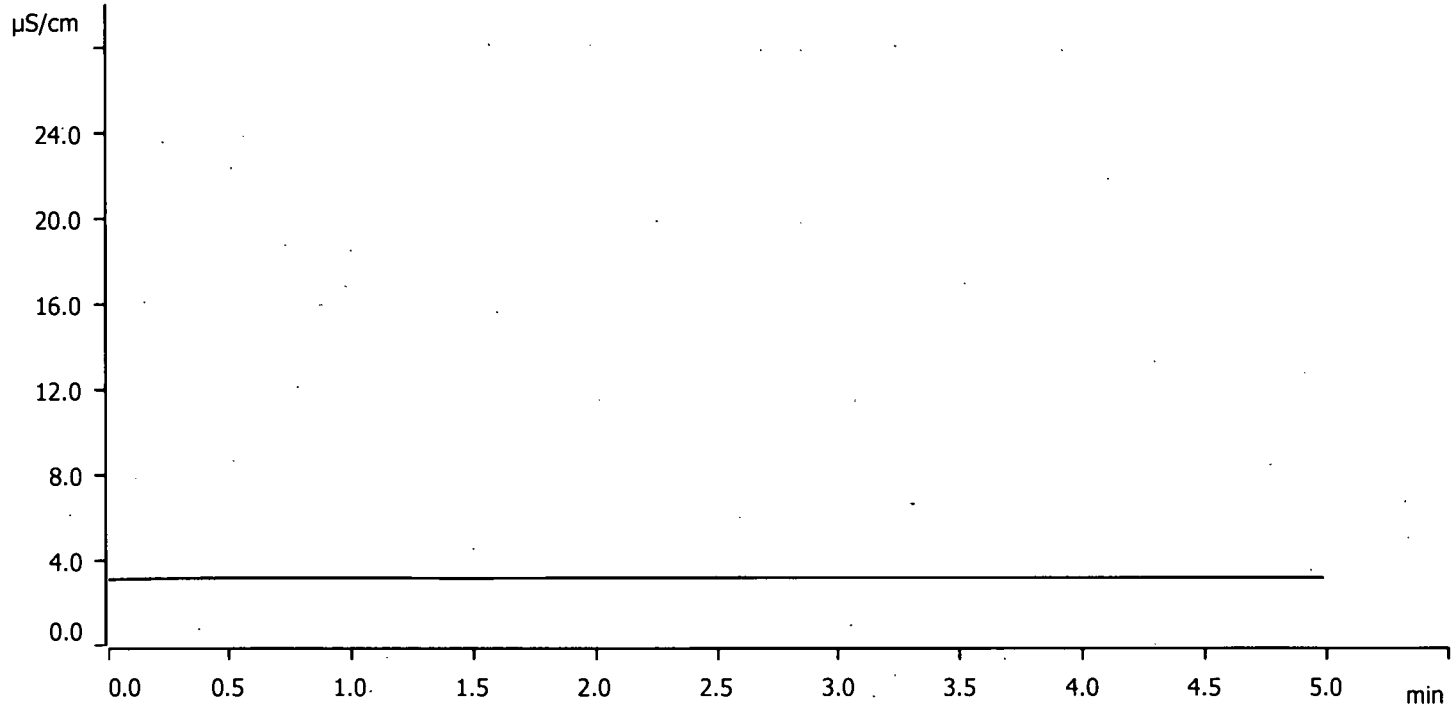
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.339	2.022	Fluoride	BB
2	1.92	0.404	4.161	Chloride	BB
3	2.22	0.482	2.085	Nitrite	BB
4	2.56	0.063	1.916	Bromide	BB
5	2.82	0.482	1.982	Nitrate	BB
6	4.29	0.272	4.054	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-14 13:20:24 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92243
Sample Position	44
Comment 1	300.0/9056A
Comment 2	

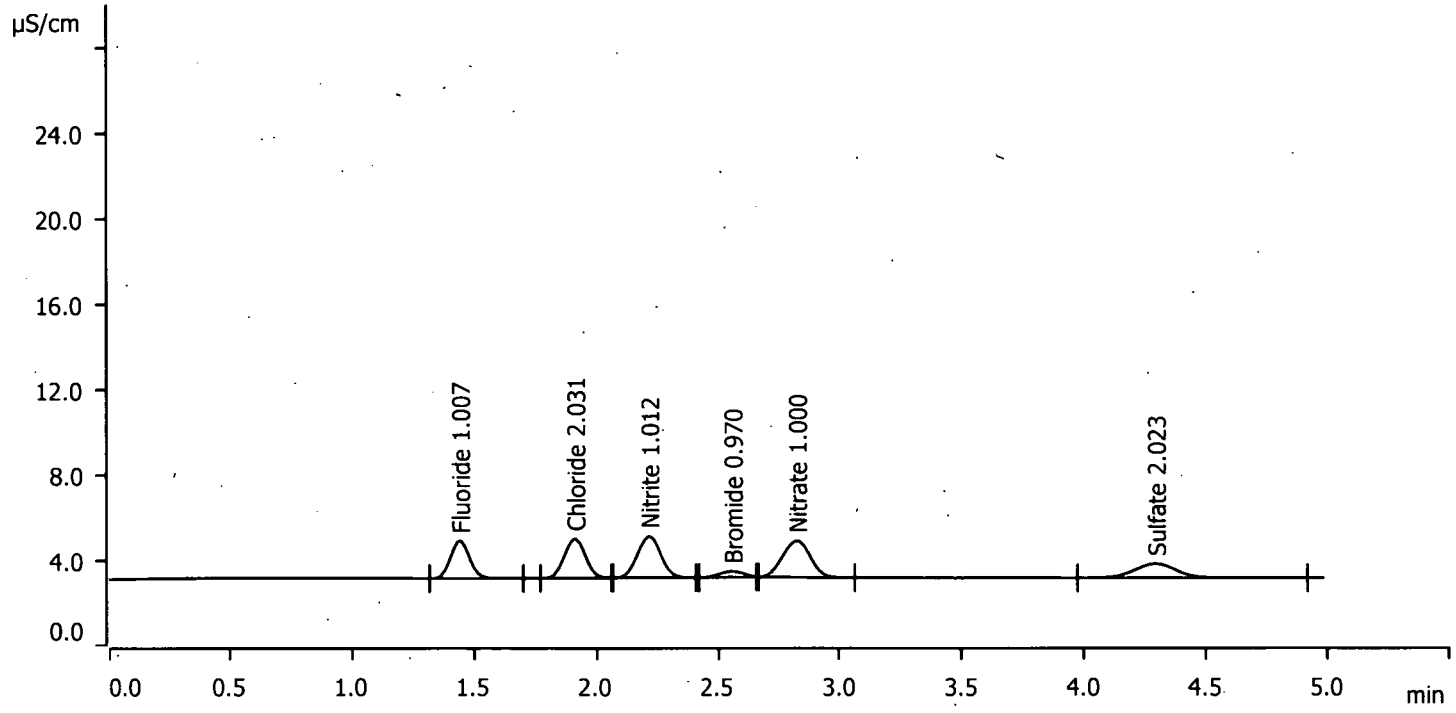
Anions



Sample data

Ident	LCS
Sample type	Check standard 2
Determination start	2024-09-14 13:26:38 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92244
Sample Position	45
Comment 1	300.0/9056A
Comment 2	

Anions



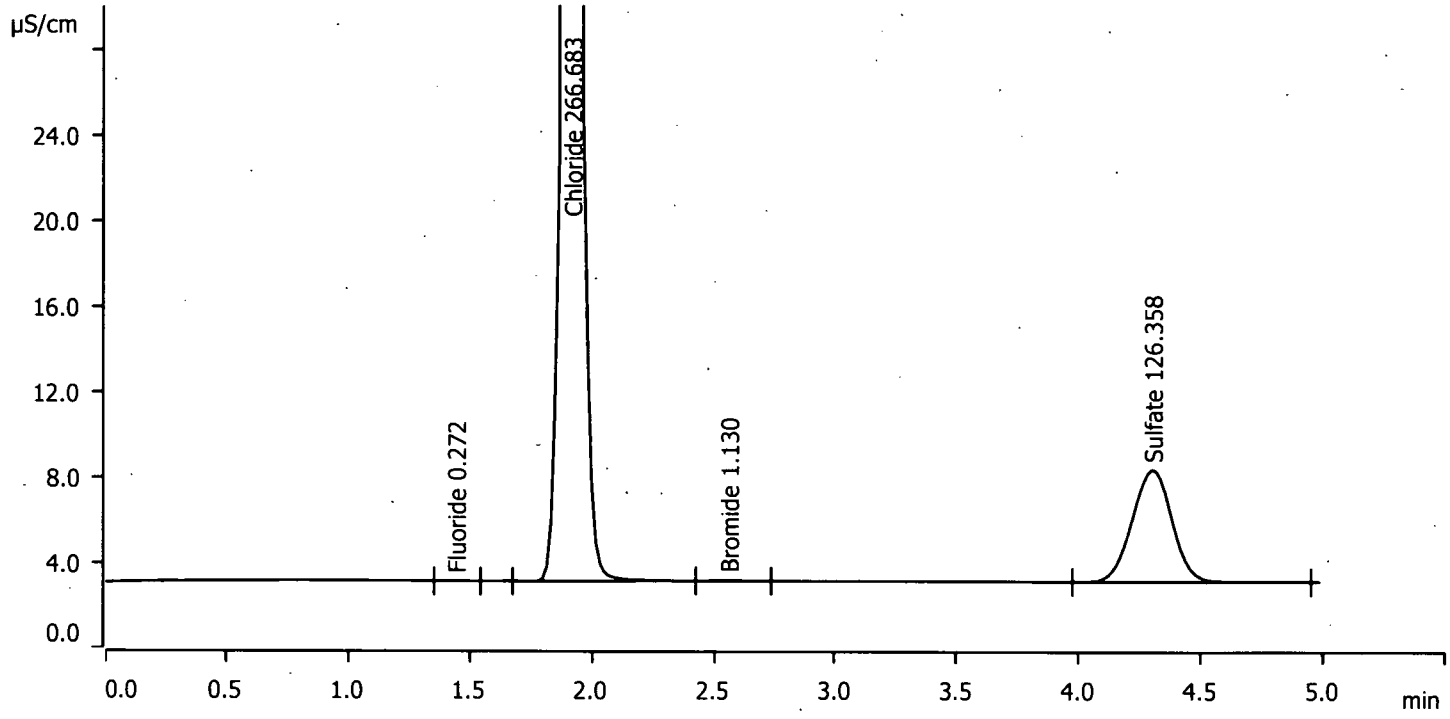
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.158	1.007	Fluoride	BB
2	1.92	0.183	2.031	Chloride	BB
3	2.22	0.219	1.012	Nitrite	BB
4	2.56	0.031	0.970	Bromide	BB
5	2.83	0.225	1.000	Nitrate	BB
6	4.30	0.130	2.023	Sulfate	BB

Sample data

Ident	R2408385-011 DNR
Sample type	Sample
Determination start	2024-09-14 13:32:59 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92245
Sample Position	46
Comment 1	300.0 S
Comment 2	

Anions



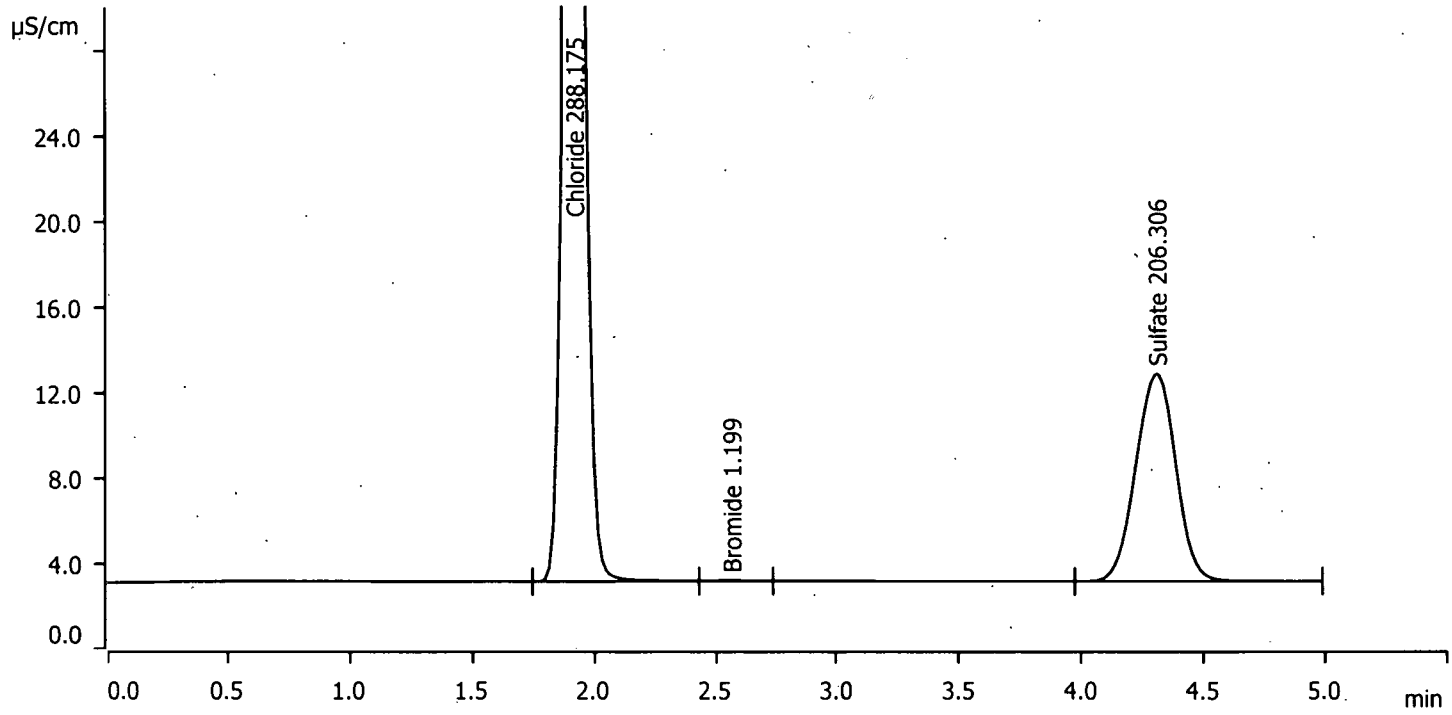
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.001	0.272	Fluoride	BB
2	1.92	4.446	266.683	Chloride	BB
3	2.56	0.003	1.130	Bromide	BB
4	4.30	0.995	126.358	Sulfate	BB

Sample data

Ident	R2408385-012 DNR
Sample type	Sample
Determination start	2024-09-14 13:39:15 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92246
Sample Position	47
Comment 1	300.0 S
Comment 2	

Anions



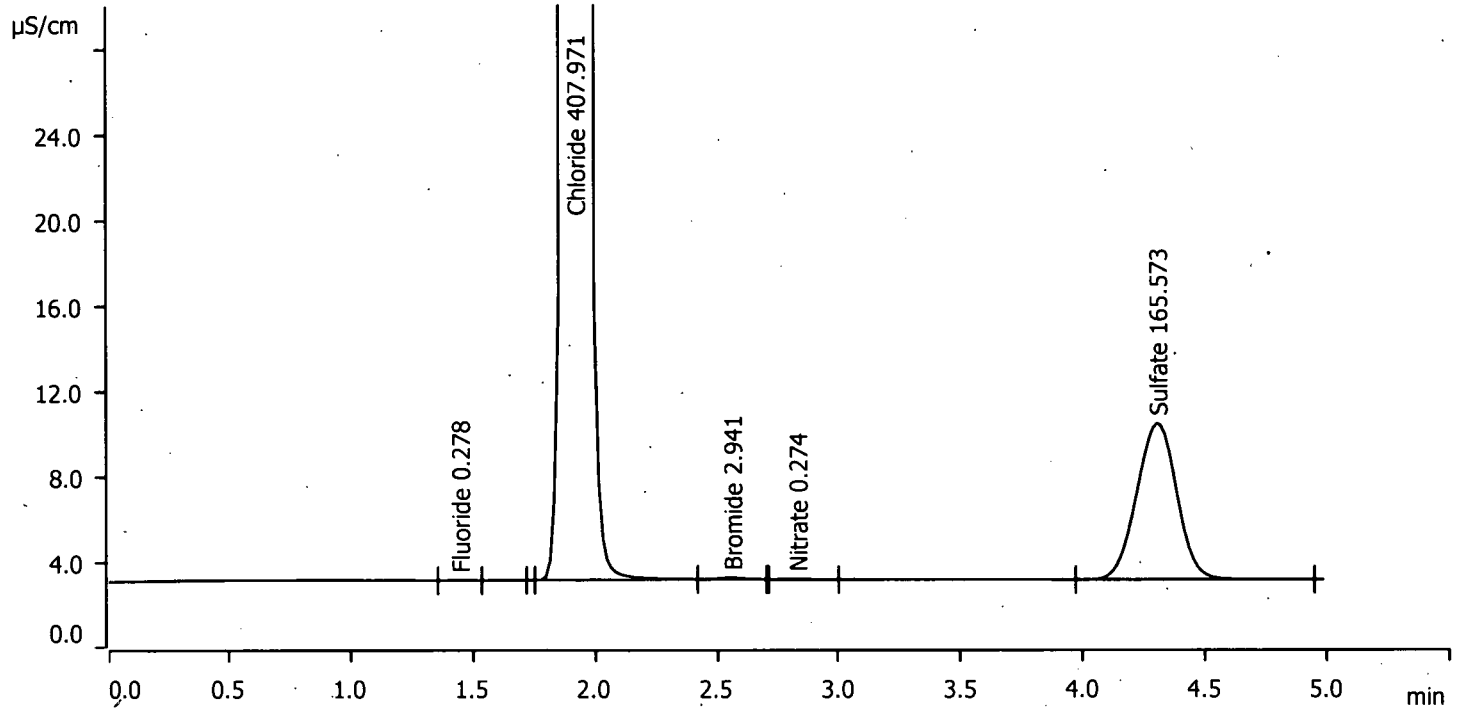
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	4.995	288.175	Chloride	BB
2	2.56	0.004	1.199	Bromide	BB
3	4.31	1.851	206.306	Sulfate	BB

Sample data

Ident	R2408385-014 DNR
Sample type	Sample
Determination start	2024-09-14 13:45:30 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92247
Sample Position	48
Comment 1	300.0 S
Comment 2	

Anions



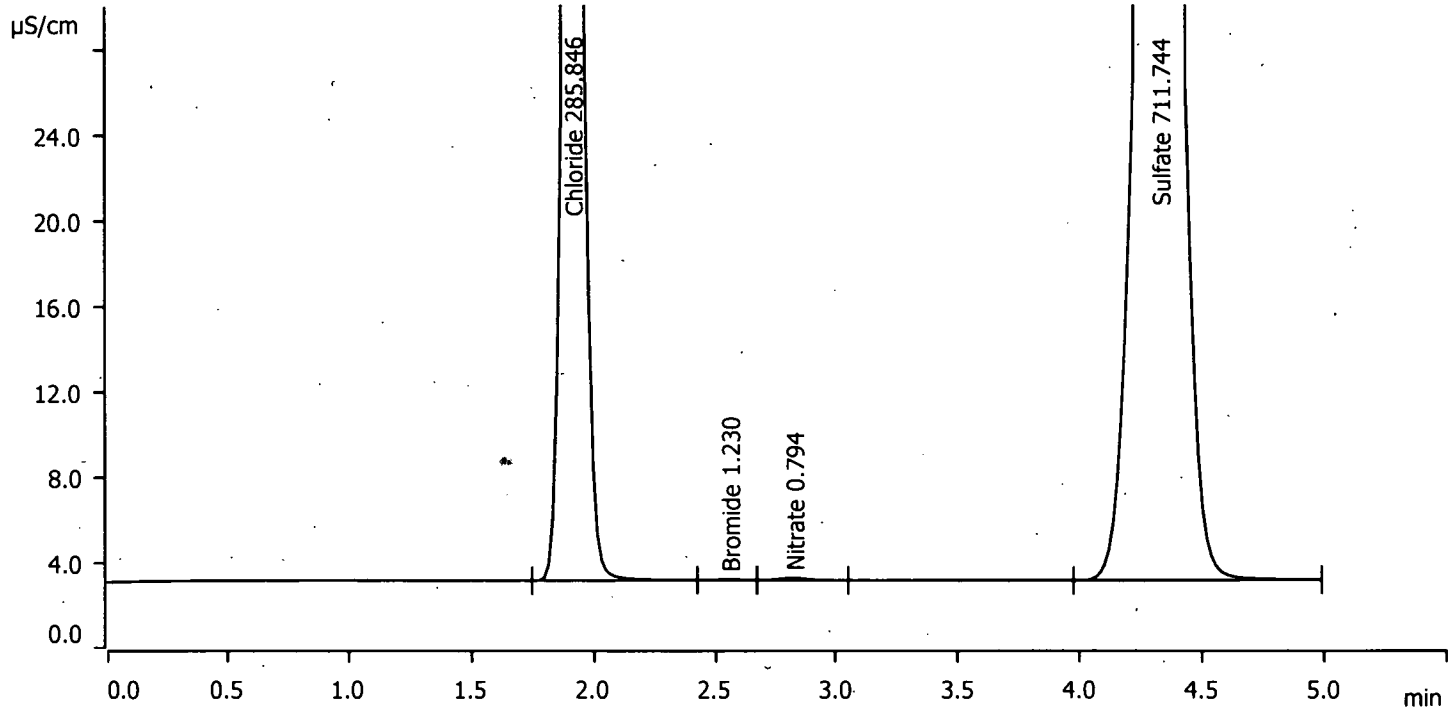
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.001	0.278	Fluoride	BB
3	1.93	8.576	407.971	Chloride	BB
4	2.56	0.009	2.941	Bromide	BB
5	2.82	0.002	0.274	Nitrate	BB
6	4.31	1.393	165.573	Sulfate	BB

Sample data

Ident	R2408385-015 DNR
Sample type	Sample
Determination start	2024-09-14 13:51:46 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92248
Sample Position	49
Comment 1	300.0 S
Comment 2	

Anions



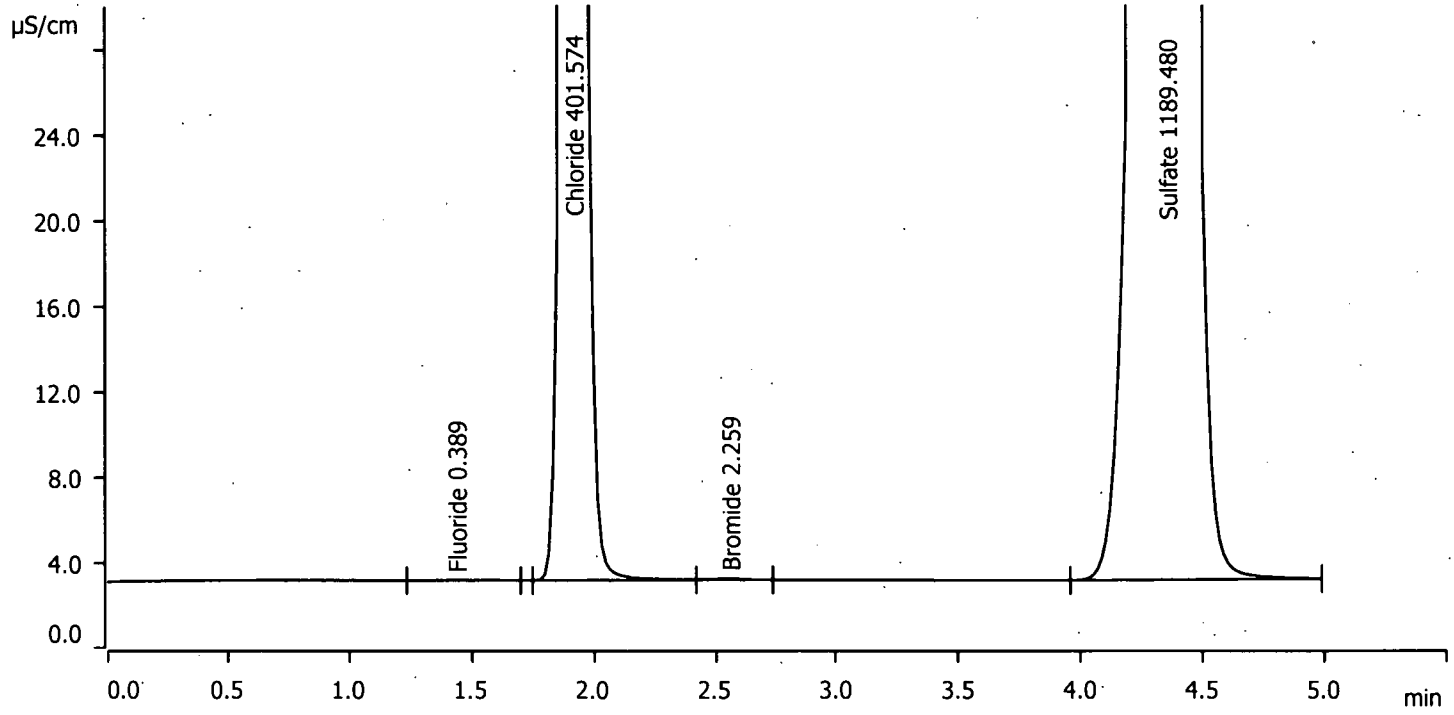
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	4.934	285.846	Chloride	BB
2	2.56	0.004	1.230	Bromide	BB
3	2.83	0.013	0.794	Nitrate	BB
4	4.33	11.317	711.744	Sulfate	BB

Sample data

Ident	R2408385-016 DNR
Sample type	Sample
Determination start	2024-09-14 13:58:01 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92249
Sample Position	50
Comment 1	300.0 S
Comment 2	

Anions



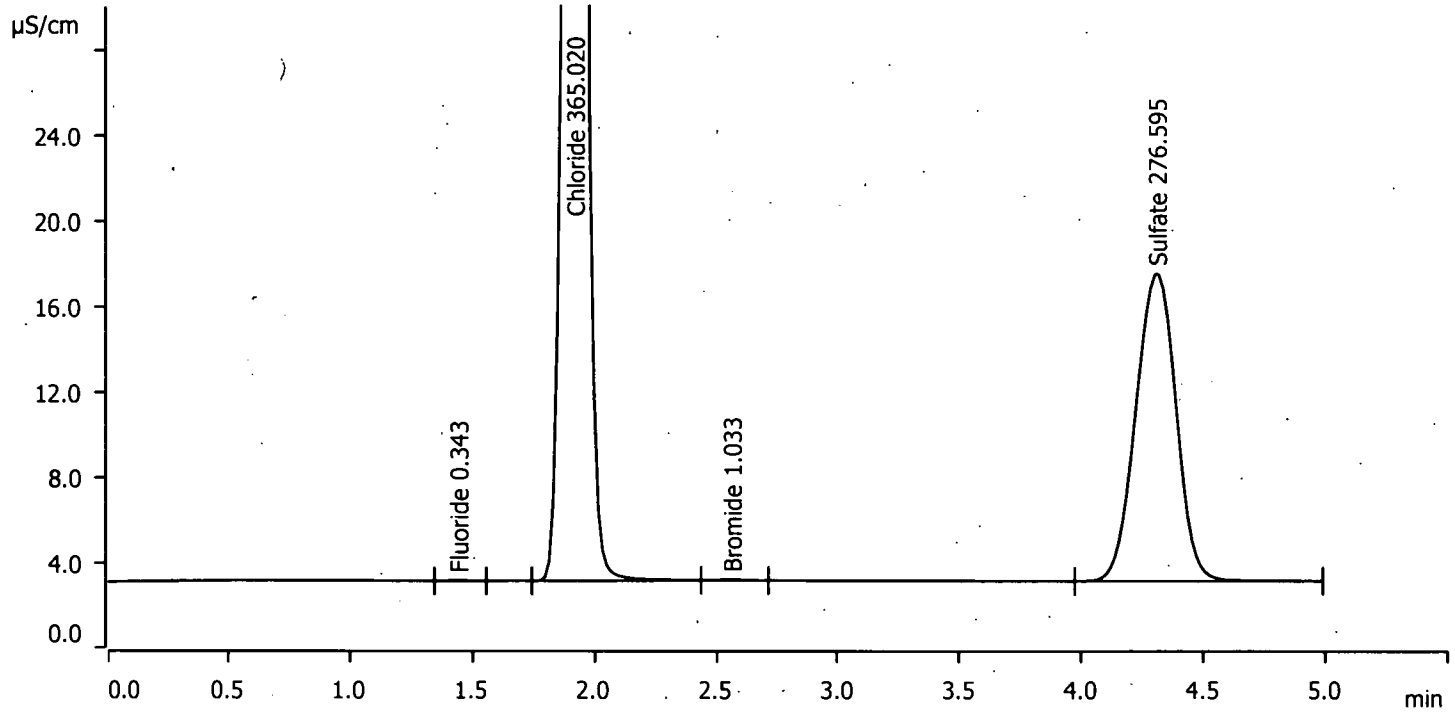
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.003	0.389	Fluoride	BBI
2	1.92	8.362	401.574	Chloride	BB
3	2.56	0.007	2.259	Bromide	BB
4	4.36	26.704	1189.480	Sulfate	BB

Sample data

Ident	R2408385-017 DNR
Sample type	Sample
Determination start	2024-09-14 14:04:16 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92250
Sample Position	51
Comment 1	300.0 S
Comment 2	

Anions



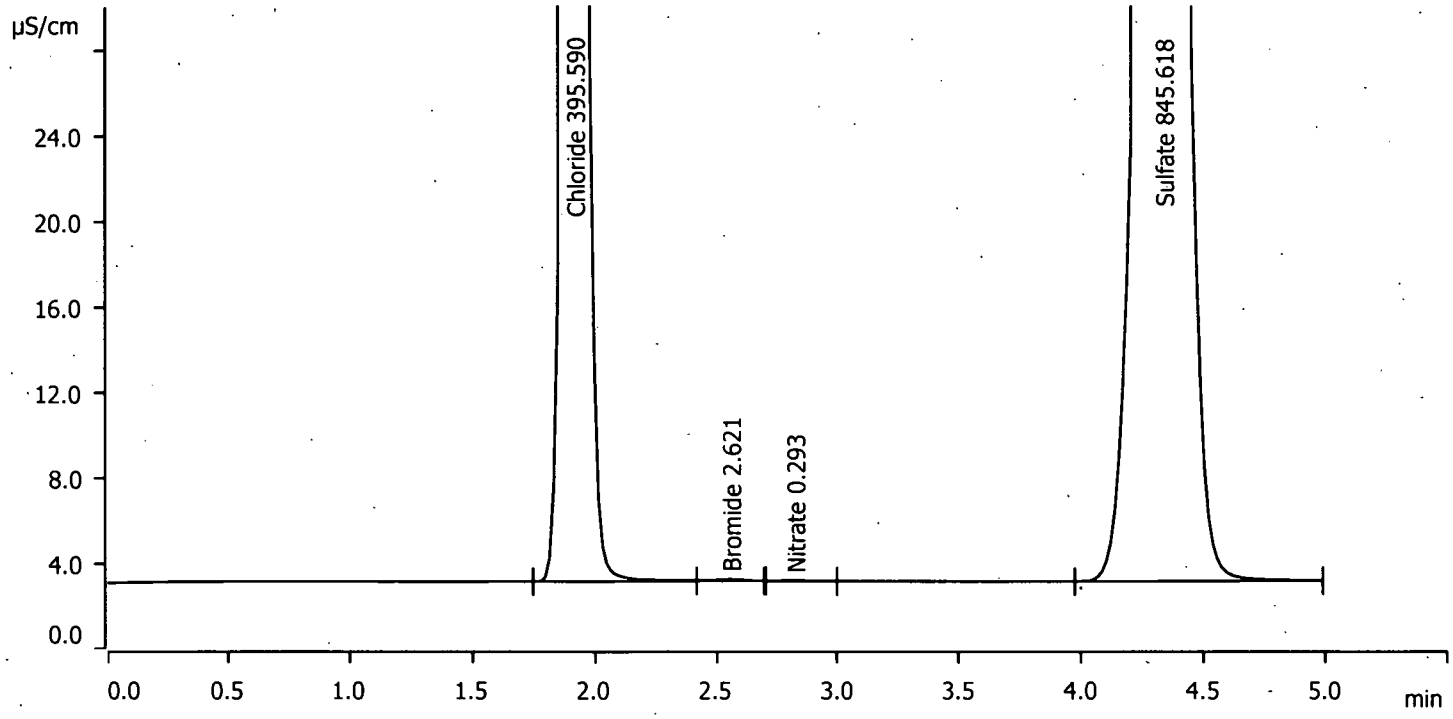
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.002	0.343	Fluoride	BB
2	1.92	7.190	365.020	Chloride	BB
3	2.56	0.003	1.033	Bromide	BB
4	4.31	2.748	276.595	Sulfate	BB

Sample data

Ident	R2408385-018 DNR
Sample type	Sample
Determination start	2024-09-14 14:10:32 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92251
Sample Position	52
Comment 1	300.0 S
Comment 2	

Anions



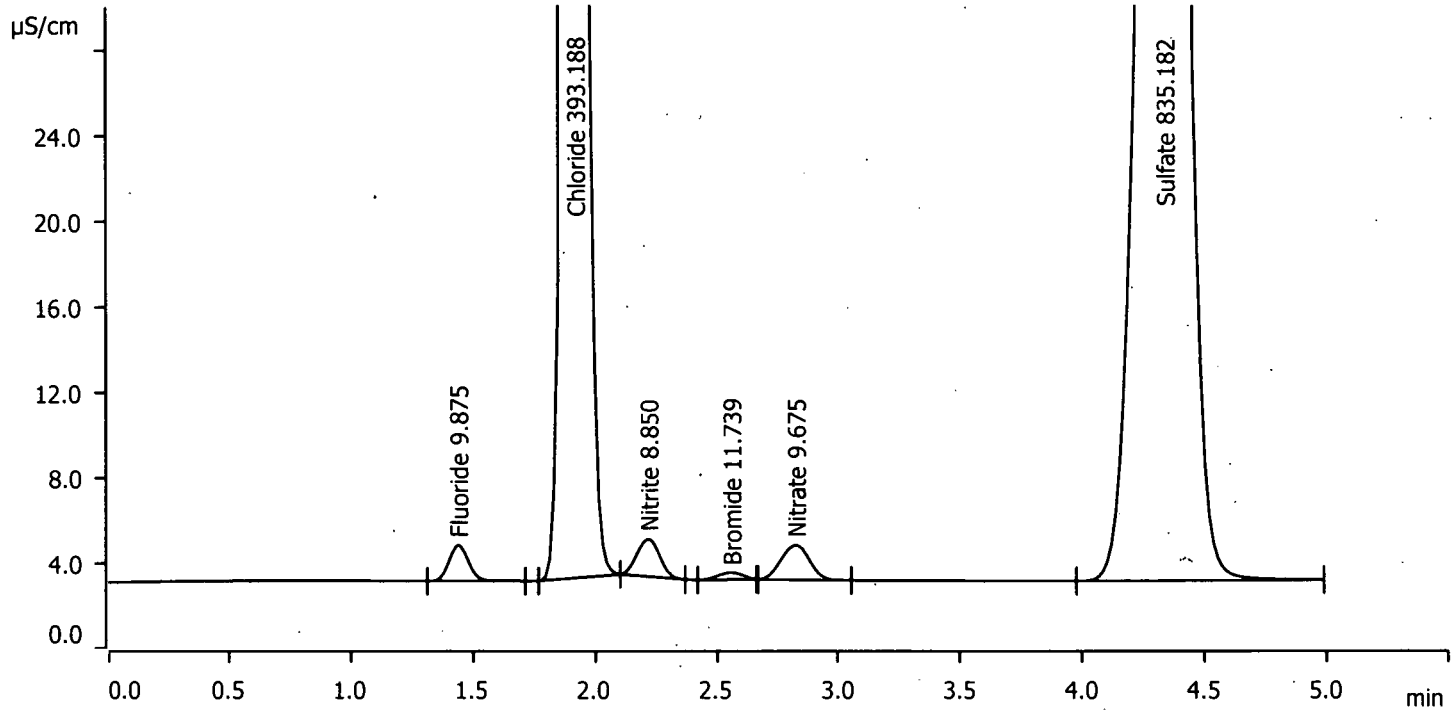
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	8.165	395.590	Chloride	BB
2	2.56	0.008	2.621	Bromide	BB
3	2.82	0.002	0.293	Nitrate	BB
4	4.34	14.998	845.618	Sulfate	BB

Sample data

Ident	R2408385-018 MS DNR
Sample type	Sample
Determination start	2024-09-14 14:16:47 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92252
Sample Position	53
Comment 1	300.0 S
Comment 2	

Anions



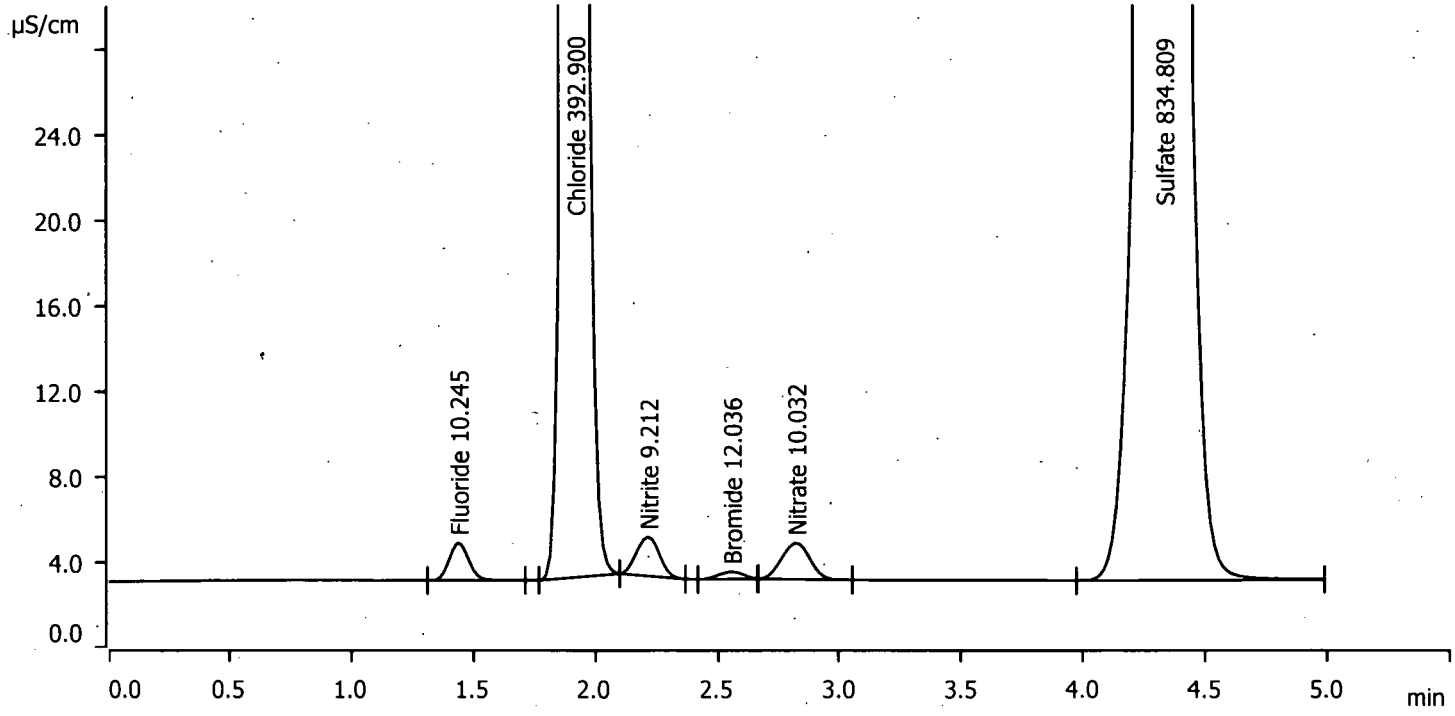
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.155	9.875	Fluoride	BB
2	1.92	8.086	393.188	Chloride	BB
3	2.22	0.189	8.850	Nitrite	BB
4	2.56	0.038	11.739	Bromide	BB
5	2.83	0.217	9.675	Nitrate	BB
6	4.34	14.694	835.182	Sulfate	BB

Sample data

Ident	R2408385-018 MSD DNR
Sample type	Sample
Determination start	2024-09-14 14:23:03 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92253
Sample Position	54
Comment 1	300.0 S
Comment 2	

Anions



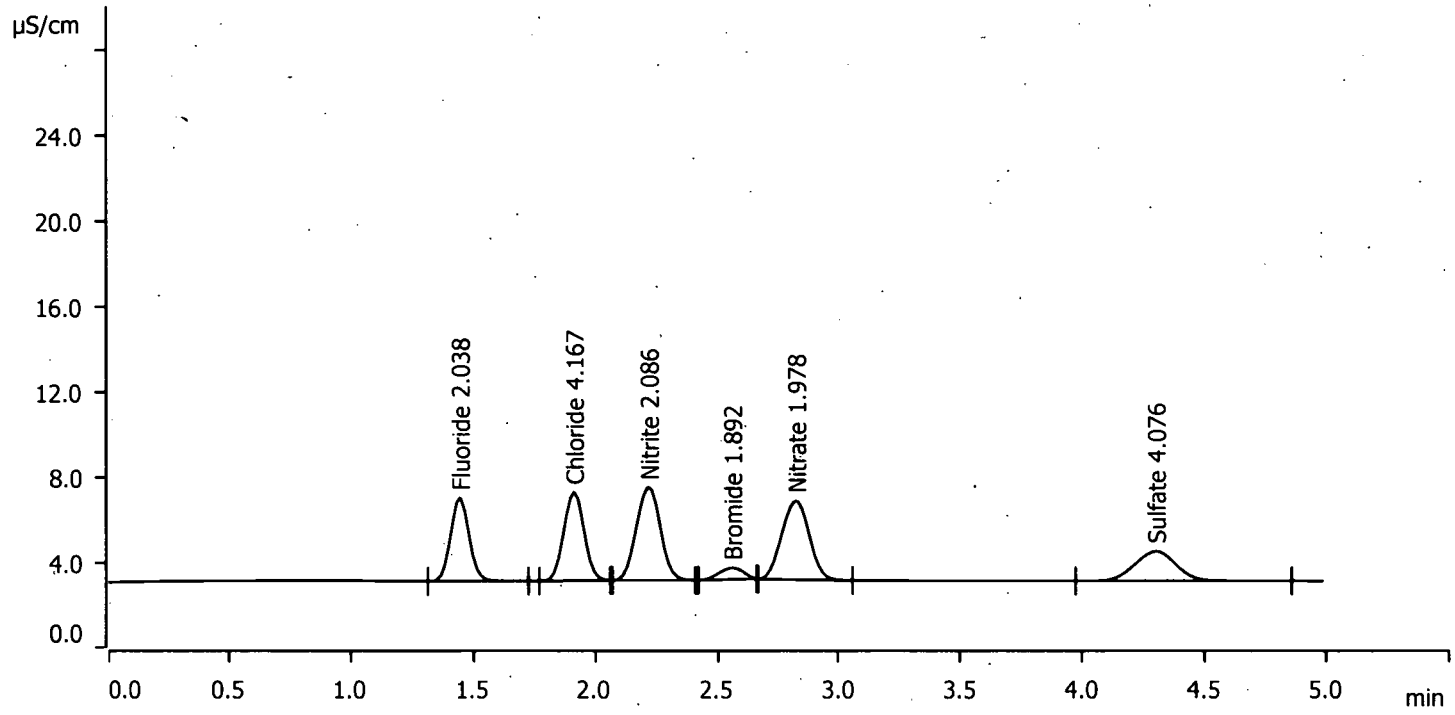
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.161	10.245	Fluoride	BB
2	1.92	8.077	392.900	Chloride	BB
3	2.22	0.198	9.212	Nitrite	BB
4	2.56	0.039	12.036	Bromide	BB
5	2.82	0.226	10.032	Nitrate	BB
6	4.34	14.683	834.809	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-14 14:29:19 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92254
Sample Position	55
Comment 1	300.0/9056A
Comment 2	

Anions



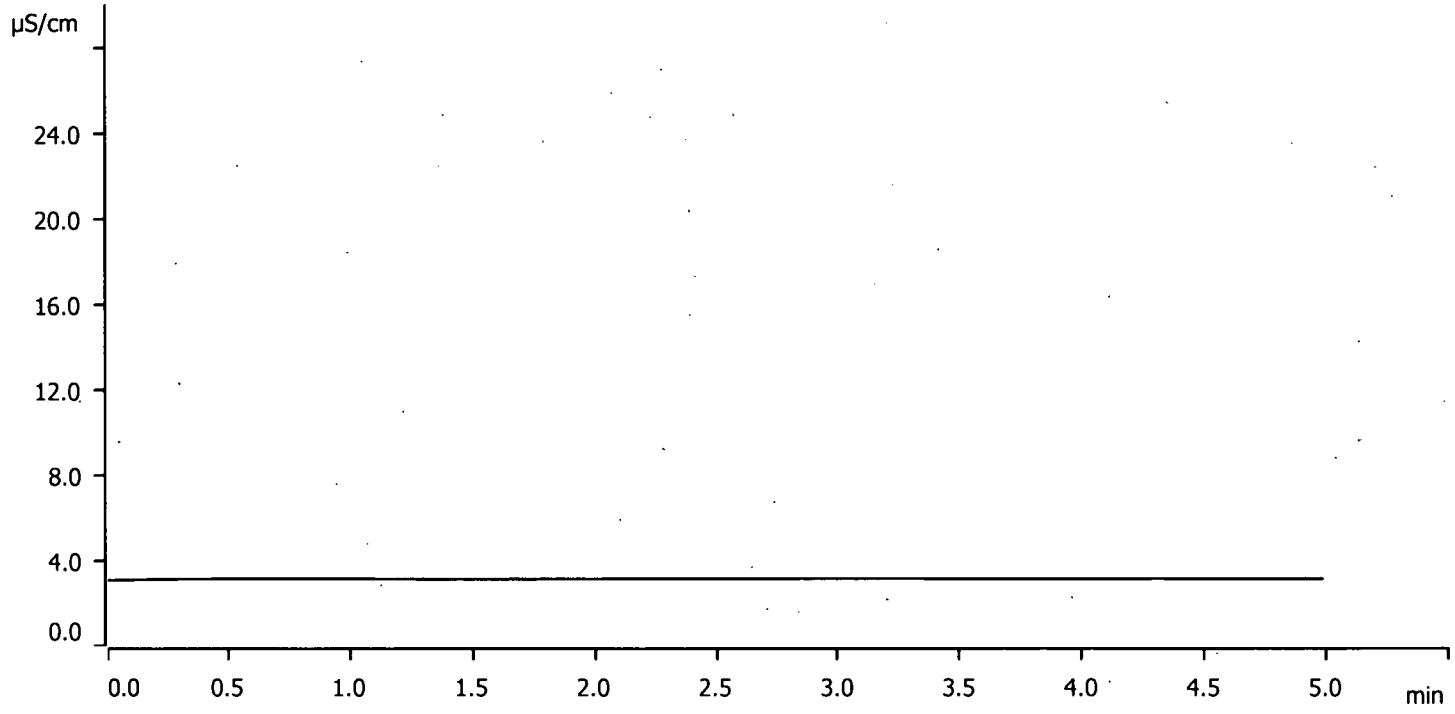
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.342	2.038	Fluoride	BB
2	1.92	0.405	4.167	Chloride	BB
3	2.22	0.483	2.086	Nitrite	BB
4	2.56	0.063	1.892	Bromide	BB
5	2.83	0.481	1.978	Nitrate	BB
6	4.30	0.273	4.076	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-14 14:35:35 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92255
Sample Position	56
Comment 1	300.0/9056A
Comment 2	

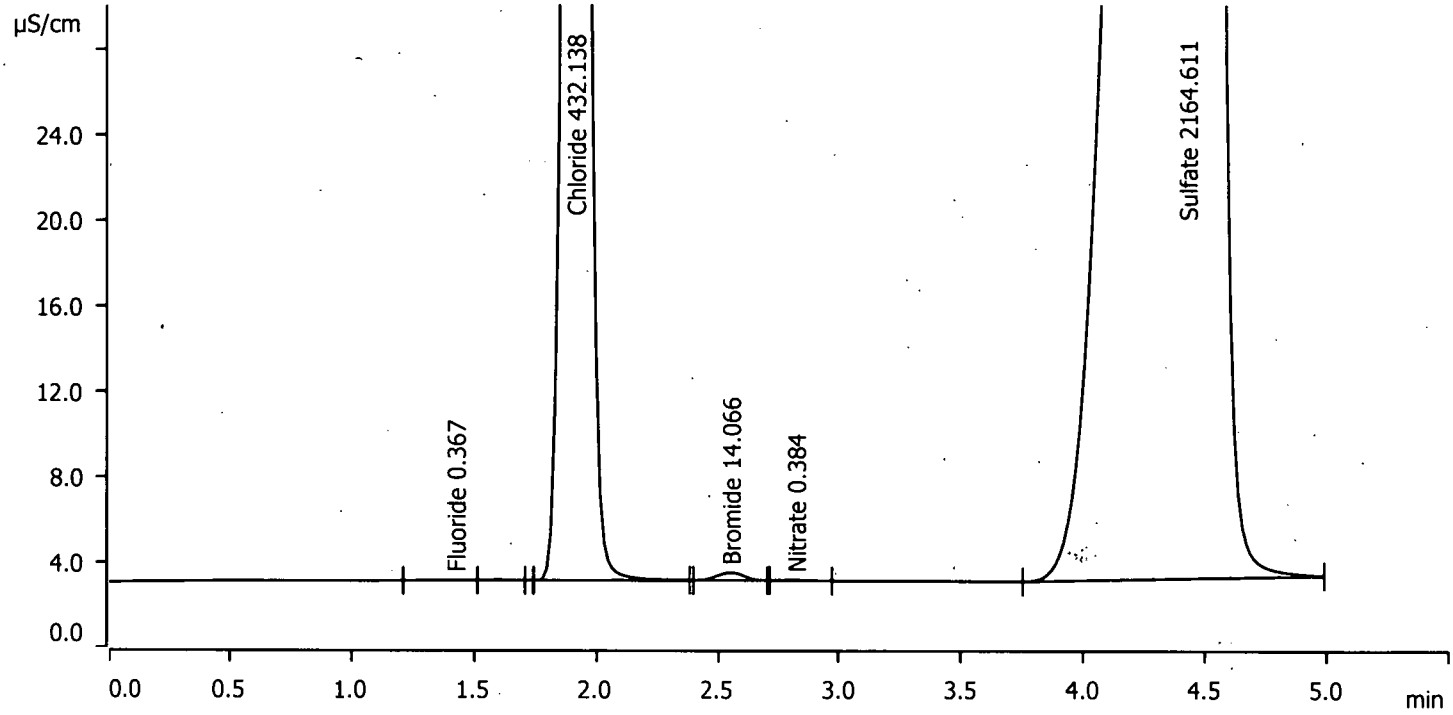
Anions



Sample data

Ident	R2408385-019 DNR
Sample type	Sample
Determination start	2024-09-14 14:41:49 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92256
Sample Position	57
Comment 1	300.0 S
Comment 2	

Anions



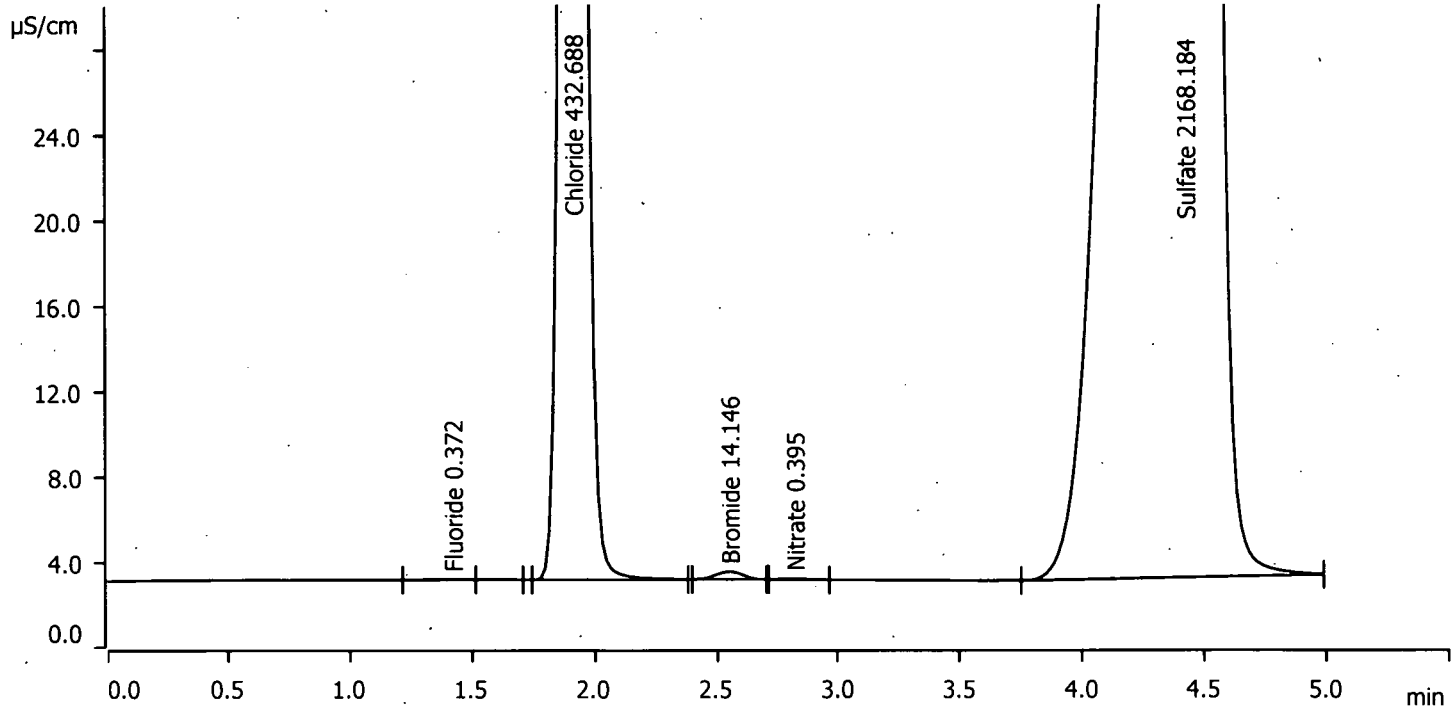
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.002	0.367	Fluoride	BB
3	1.92	9.405	432.138	Chloride	BB
4	2.56	0.046	14.066	Bromide	BB
5	2.81	0.004	0.384	Nitrate	BB
6	4.43	77.534	2164.611	Sulfate	BB

Sample data

Ident	R2408385-020 DNR
Sample type	Sample
Determination start	2024-09-14 14:48:05 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92257
Sample Position	58
Comment 1	300.0 S
Comment 2	

Anions



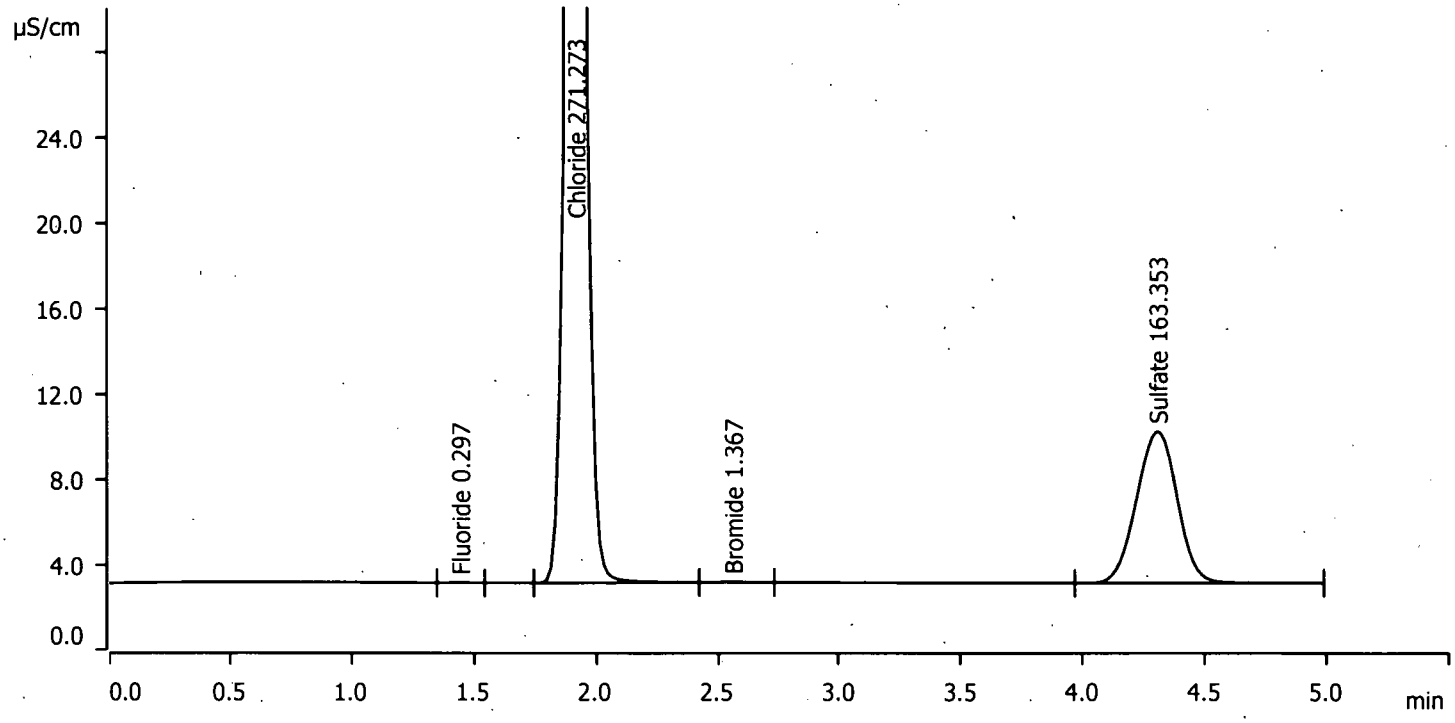
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.003	0.372	Fluoride	BB
3	1.92	9.424	432.688	Chloride	BB
4	2.56	0.046	14.146	Bromide	BB
5	2.81	0.004	0.395	Nitrate	BB
6	4.43	77.768	2168.184	Sulfate	BB

Sample data

Ident	R2408385-021 DNR
Sample type	Sample
Determination start	2024-09-14 14:54:21 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92258
Sample Position	59
Comment 1	300.0 S
Comment 2	

Anions



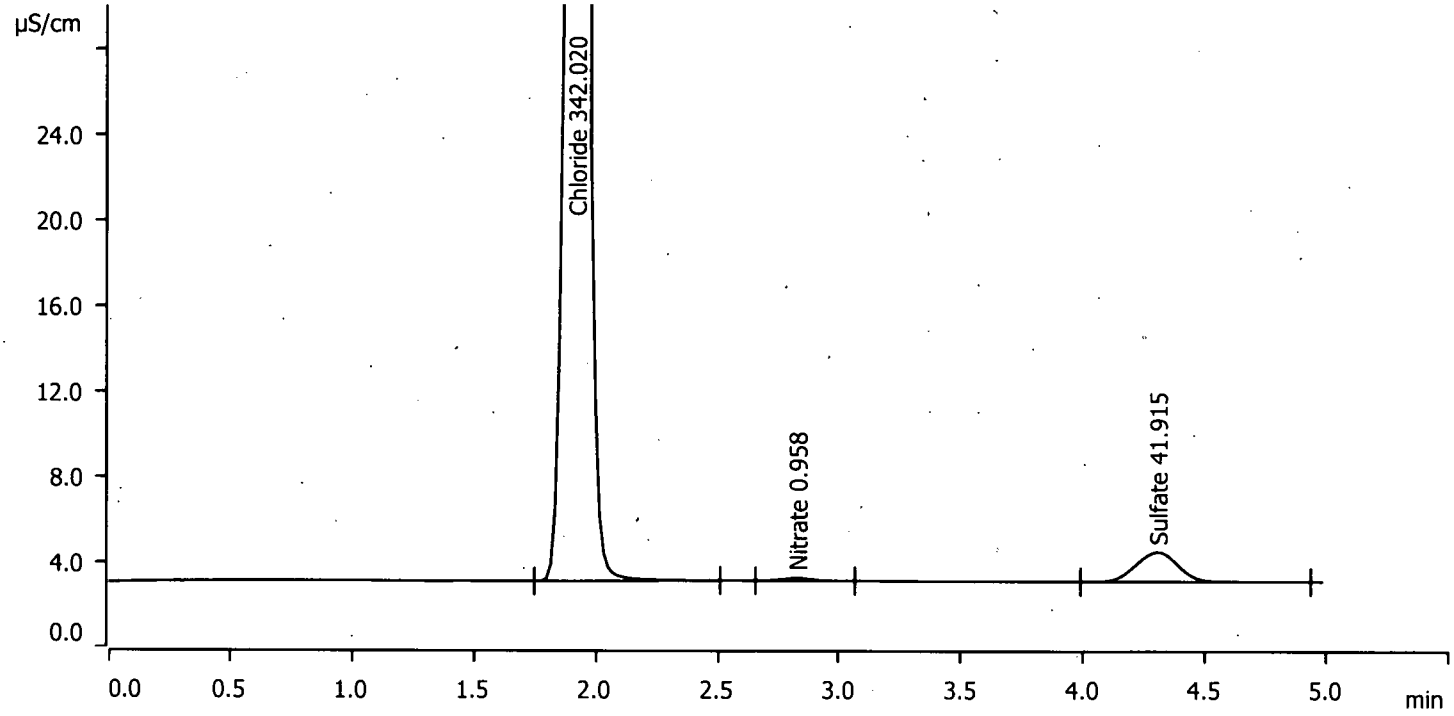
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.001	0.297	Fluoride	BB
2	1.92	4.561	271.273	Chloride	BB
3	2.56	0.004	1.367	Bromide	BB
4	4.31	1.369	163.353	Sulfate	BB

Sample data

Ident	R2408385-022
Sample type	Sample
Determination start	2024-09-14 15:00:37 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92259
Sample Position	60
Comment 1	300.0 S
Comment 2	

Anions



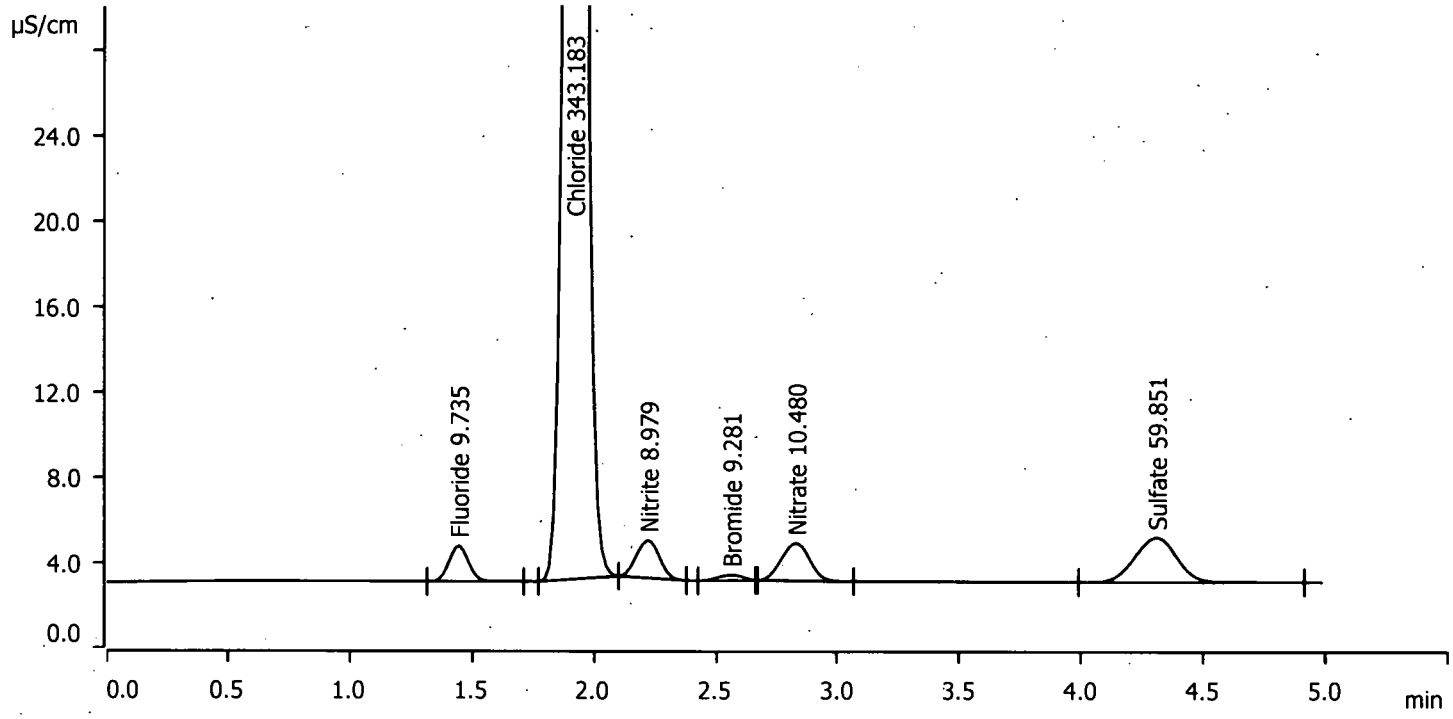
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	6.495	342.020	Chloride	BB
2	2.83	0.017	0.958	Nitrate	BB
3	4.31	0.282	41.915	Sulfate	BB

Sample data

Ident	R2408385-022 MS
Sample type	Sample
Determination start	2024-09-14 15:06:52 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92260
Sample Position	61
Comment 1	300.0 S
Comment 2	

Anions



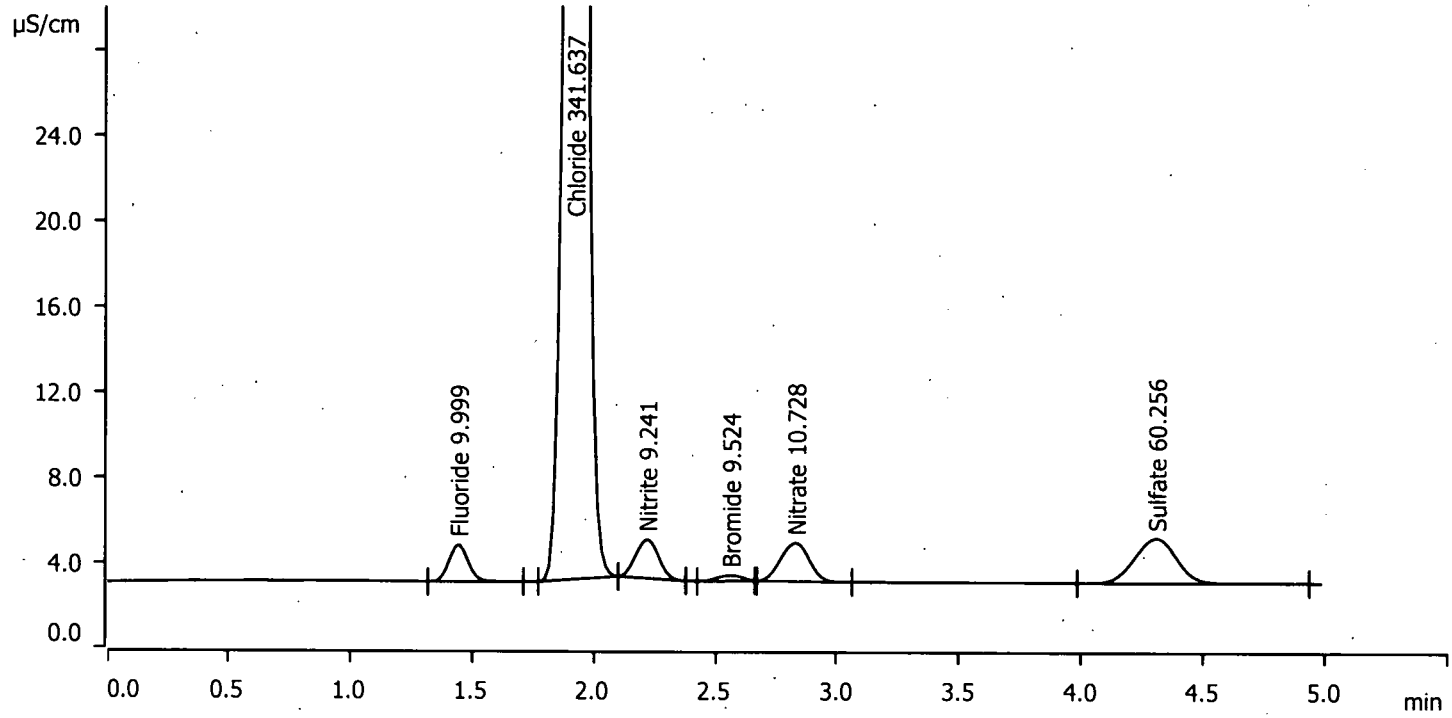
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.153	9.735	Fluoride	BB
2	1.93	6.529	343.183	Chloride	BB
3	2.22	0.192	8.979	Nitrite	BB
4	2.57	0.030	9.281	Bromide	BB
5	2.83	0.237	10.480	Nitrate	BB
6	4.31	0.417	59.851	Sulfate	BB

Sample data

Ident	R2408385-022 MSD
Sample type	Sample
Determination start	2024-09-14 15:13:08 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92261
Sample Position	62
Comment 1	300.0 S
Comment 2	

Anions



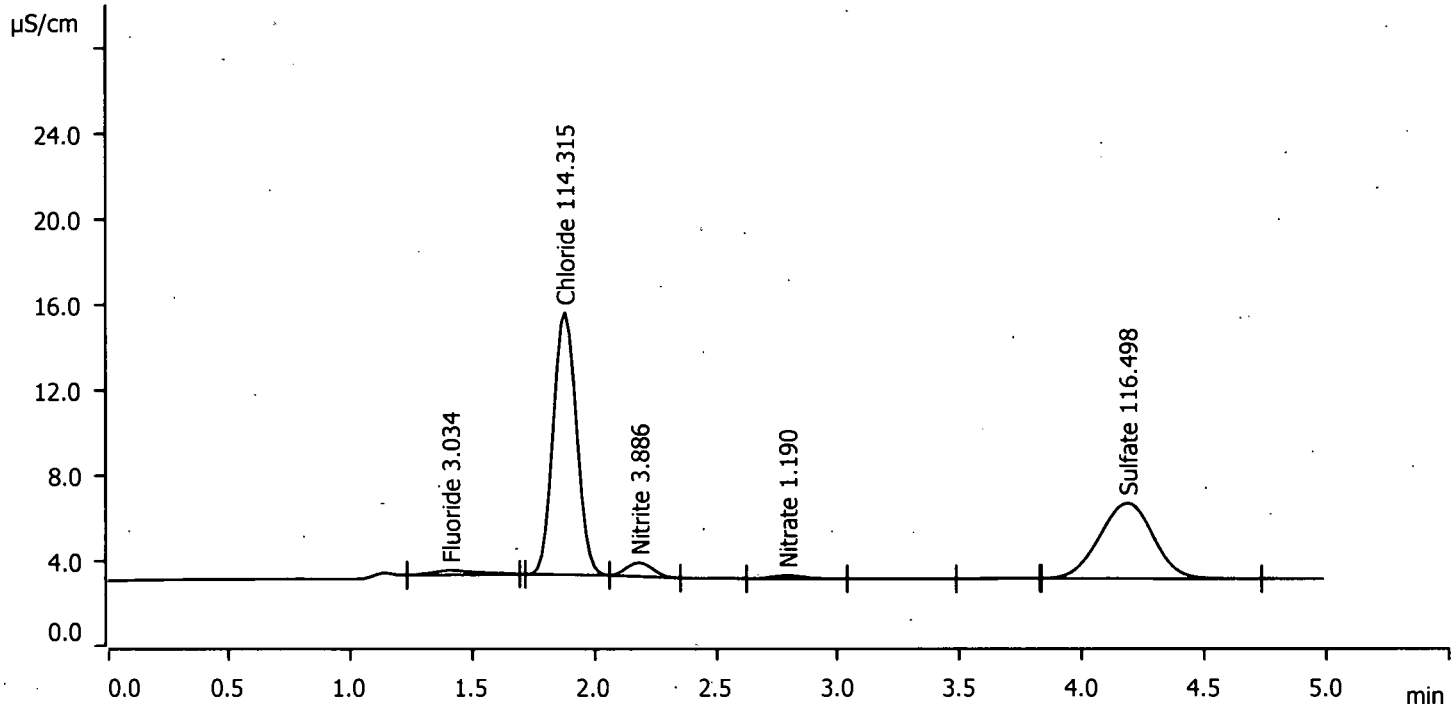
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.157	9.999	Fluoride	BB
2	1.93	6.484	341.637	Chloride	BB
3	2.22	0.198	9.241	Nitrite	BB
4	2.57	0.031	9.524	Bromide	BB
5	2.83	0.243	10.728	Nitrate	BB
6	4.31	0.420	60.256	Sulfate	BB

Sample data

Ident	R2408385-023 DNR
Sample type	Sample
Determination start	2024-09-14 15:19:23 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92262
Sample Position	63
Comment 1	300.0 S
Comment 2	

Anions



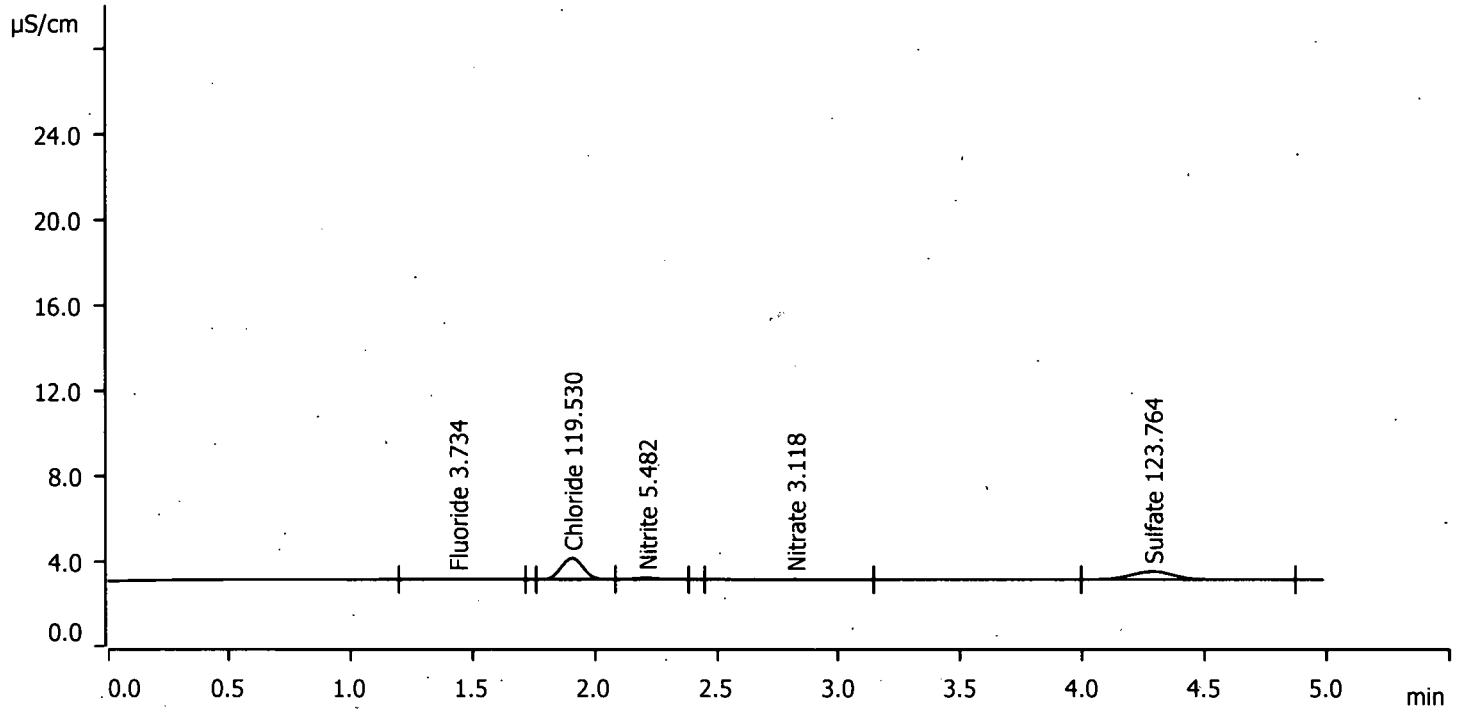
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.41	0.044	3.034	Fluoride	BBl
2	1.88	1.369	114.315	Chloride	BB
3	2.19	0.079	3.886	Nitrite	BB
4	2.79	0.022	1.190	Nitrate	BB
6	4.19	0.902	116.498	Sulfate	BB

Sample data

Ident	R2408385-023 DNR
Sample type	Sample
Determination start	2024-09-14 15:25:40 UTC-4
Method	10-091224FAST
Dilution	100
Counter	92263
Sample Position	64
Comment 1	300.0 S
Comment 2	

Anions



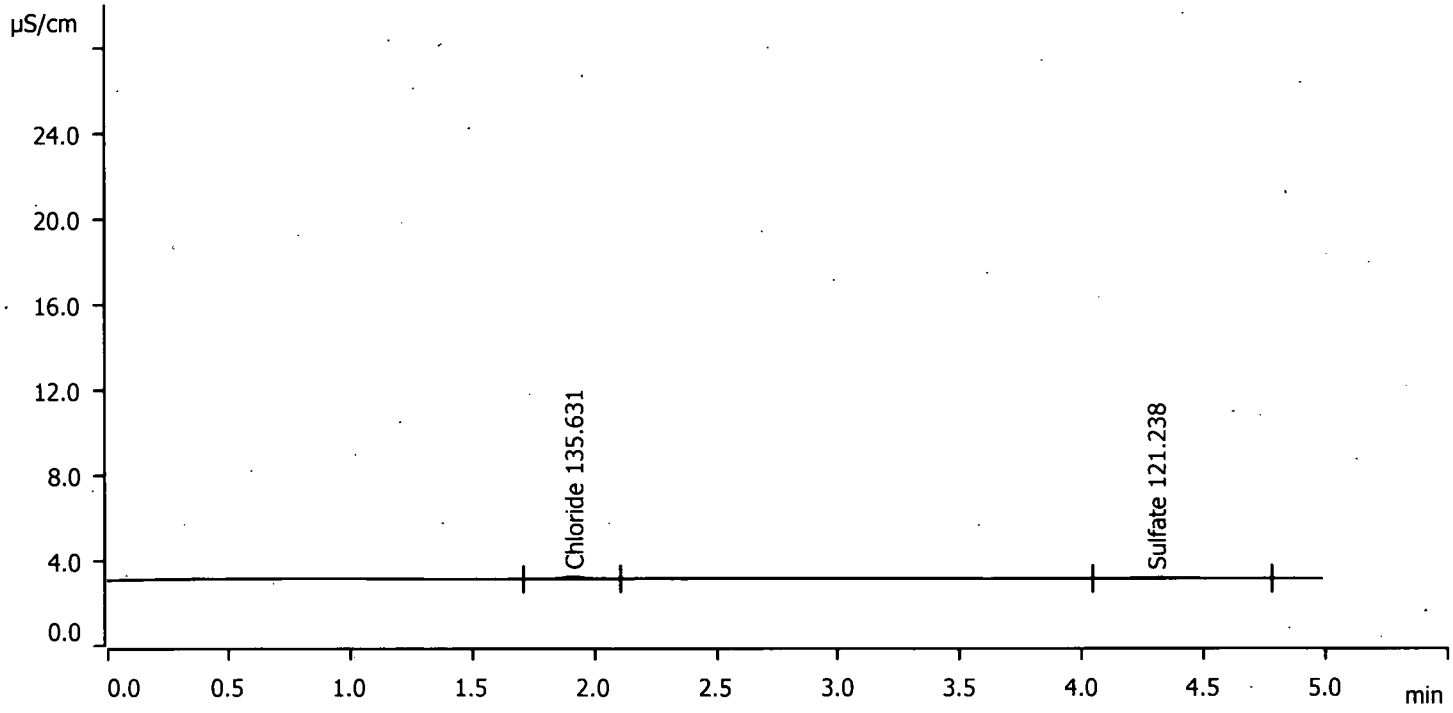
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.003	3.734	Fluoride	BB
2	1.91	0.104	119.530	Chloride	BB
3	2.22	0.008	5.482	Nitrite	BB
4	2.82	0.003	3.118	Nitrate	BB
5	4.29	0.078	123.764	Sulfate	BB

Sample data

Ident	R2408385-023 DNR
Sample type	Sample
Determination start	2024-09-14 15:31:55 UTC-4
Method	10-091224FAST
Dilution	1000
Counter	92264
Sample Position	65
Comment 1	300.0 S
Comment 2	

Anions



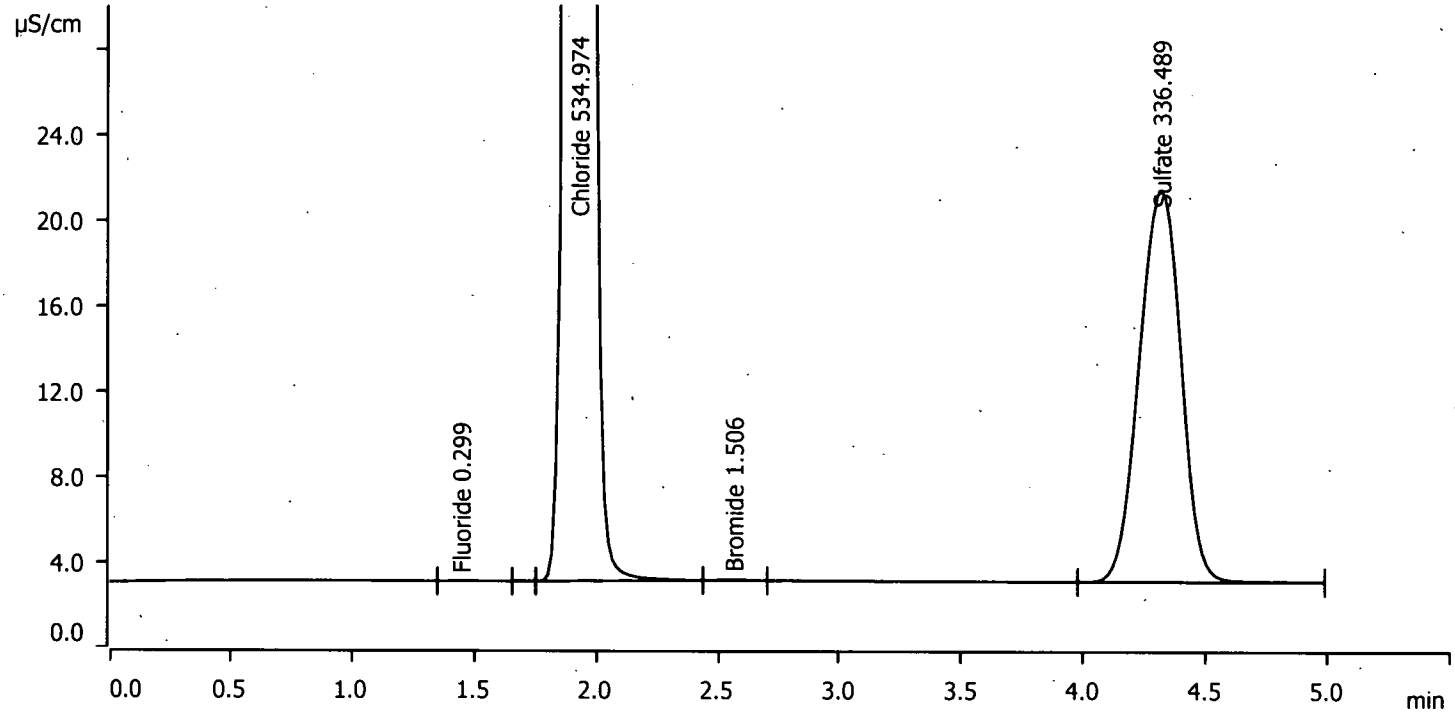
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.010	135.631	Chloride	BB
2	4.30	0.007	121.238	Sulfate	BB

Sample data

Ident	R2408385-024 DNR
Sample type	Sample
Determination start	2024-09-14 15:38:10 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92265
Sample Position	66
Comment 1	300.0 S
Comment 2	

Anions



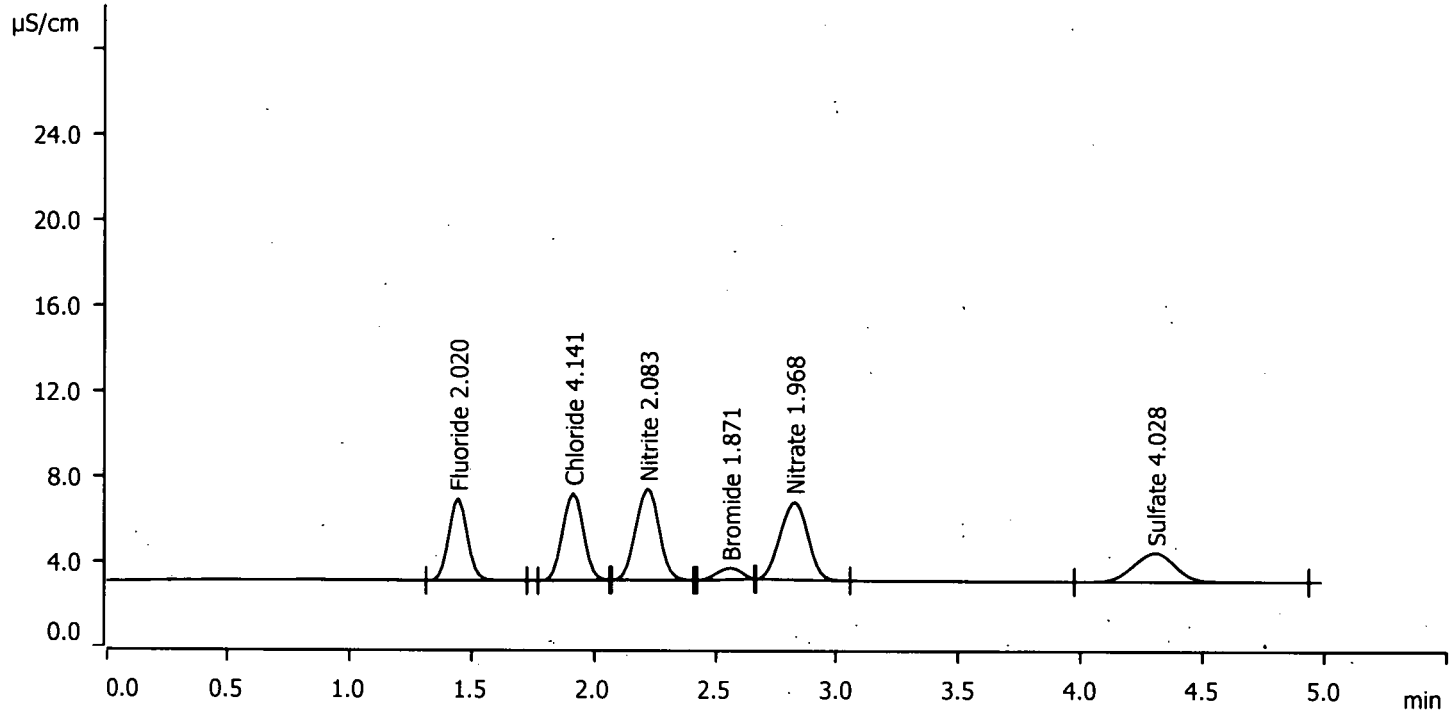
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.001	0.299	Fluoride	BB
2	1.93	13.337	534.974	Chloride	BB
3	2.56	0.005	1.506	Bromide	BB
4	4.32	3.619	336.489	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-14 15:44:25 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92266
Sample Position	67
Comment 1	300.0/9056A
Comment 2	

Anions



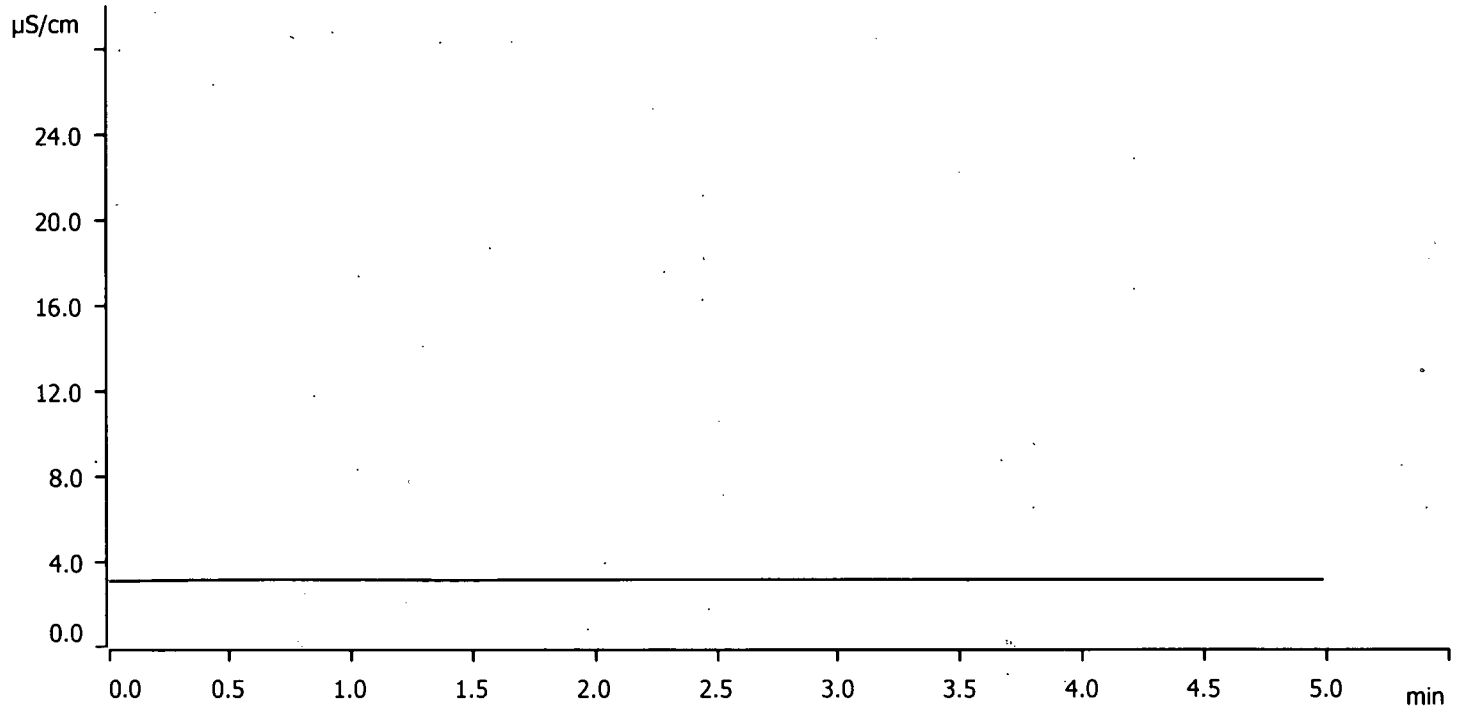
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.339	2.020	Fluoride	BB
2	1.92	0.402	4.141	Chloride	BB
3	2.22	0.482	2.083	Nitrite	BB
4	2.57	0.062	1.871	Bromide	BB
5	2.83	0.478	1.968	Nitrate	BB
6	4.31	0.270	4.028	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-14 15:50:41 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92267
Sample Position	68
Comment 1	300.0/9056A
Comment 2	

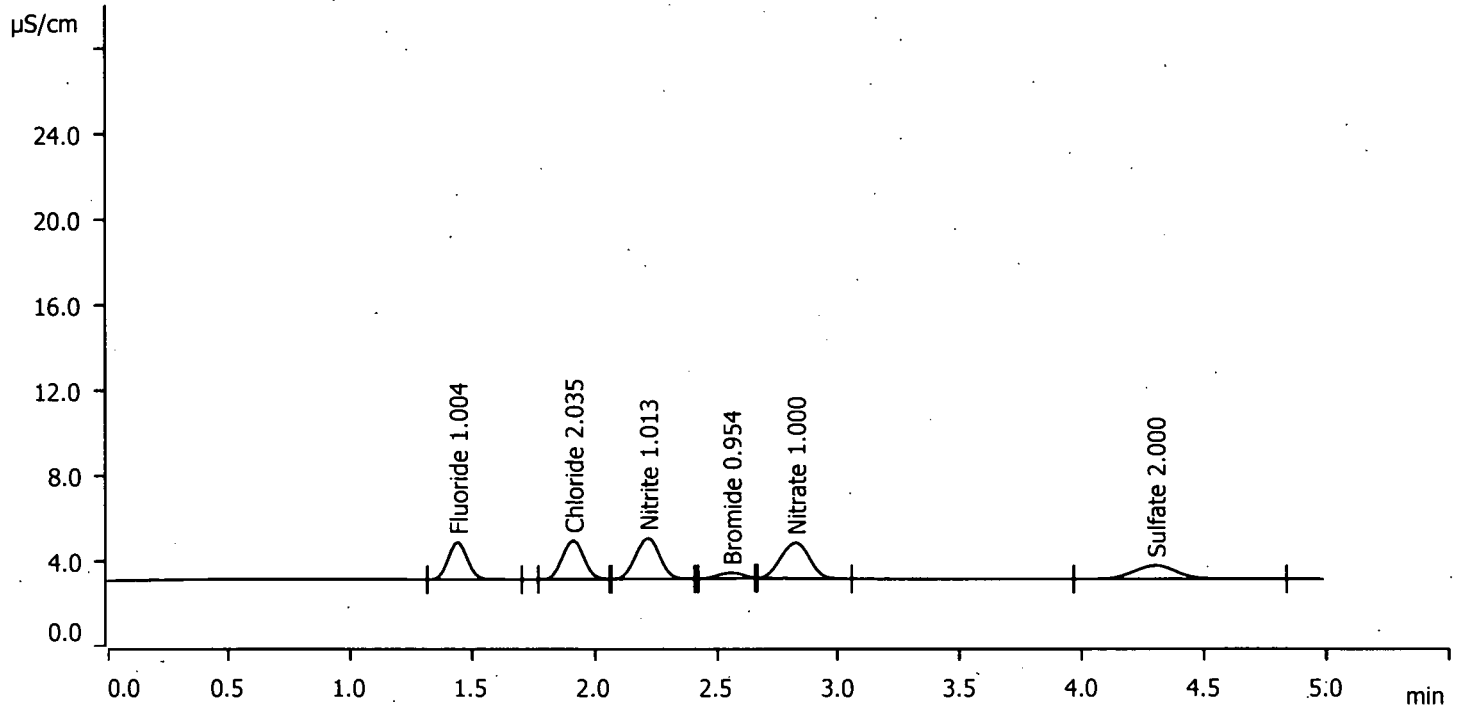
Anions



Sample data

Ident	LCS
Sample type	Check standard 2
Determination start	2024-09-14 15:56:57 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92268
Sample Position	69
Comment 1	300.0/9056A
Comment 2	

Anions



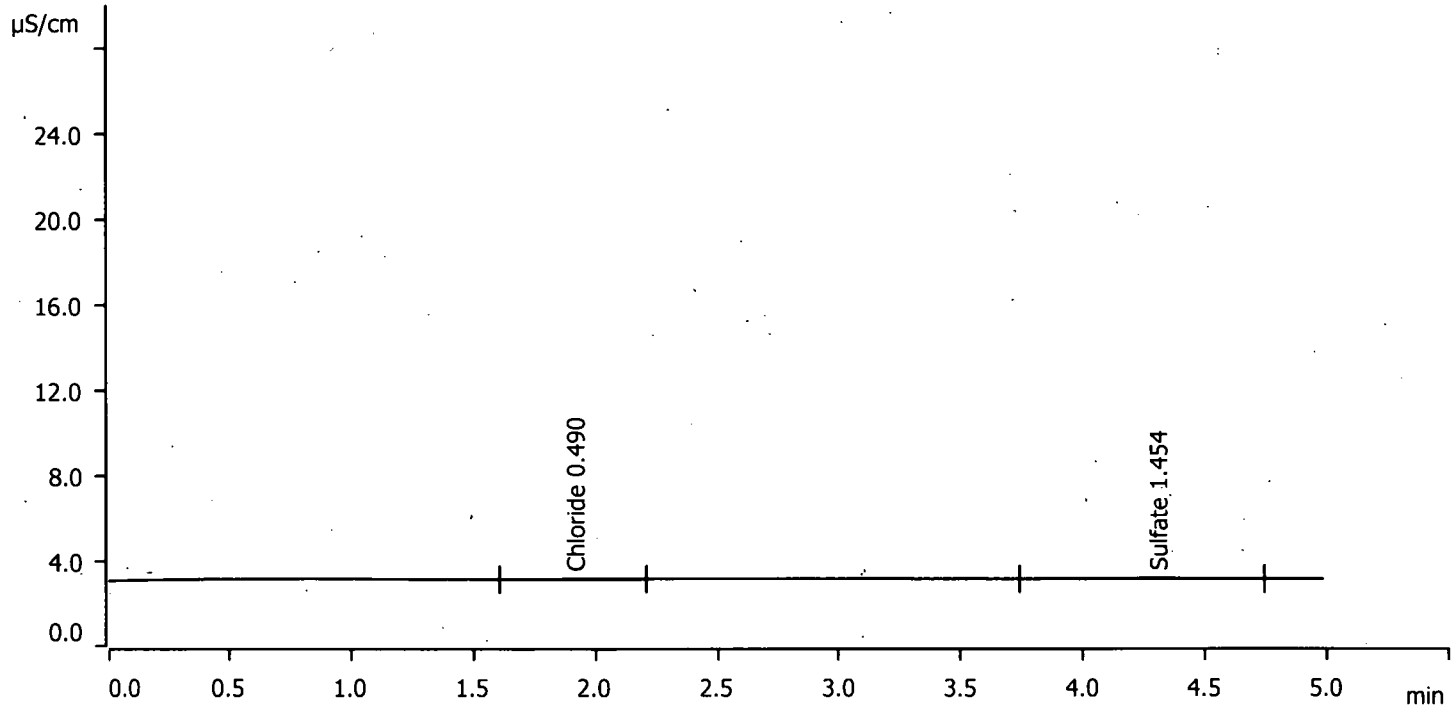
Anions

Peak number	Retention time min.	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.158	1.004	Fluoride	BB
2	1.92	0.183	2.035	Chloride	BB
3	2.22	0.219	1.013	Nitrite	BB
4	2.56	0.031	0.954	Bromide	BB
5	2.83	0.225	1.000	Nitrate	BB
6	4.30	0.128	2.000	Sulfate	BB

Sample data

Ident	R2408152-001
Sample type	Sample
Determination start	2024-09-14 16:03:13 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92269
Sample Position	70
Comment 1	300.0 CS
Comment 2	

Anions



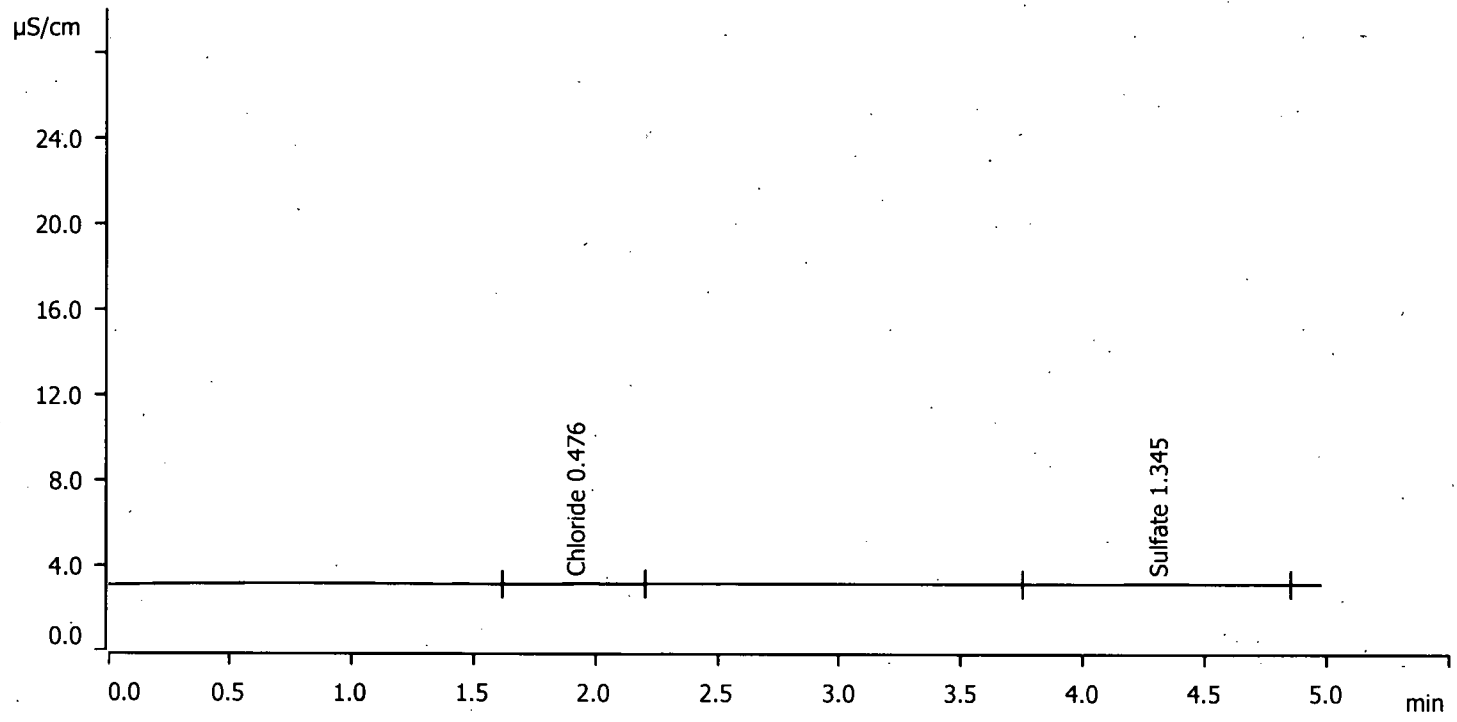
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.002	0.490	Chloride	BB
2	4.30	0.009	1.454	Sulfate	BB

Sample data

Ident	R2408152-003
Sample type	Sample
Determination start	2024-09-14 16:09:28 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92270
Sample Position	71
Comment 1	300.0 CS
Comment 2	

Anions



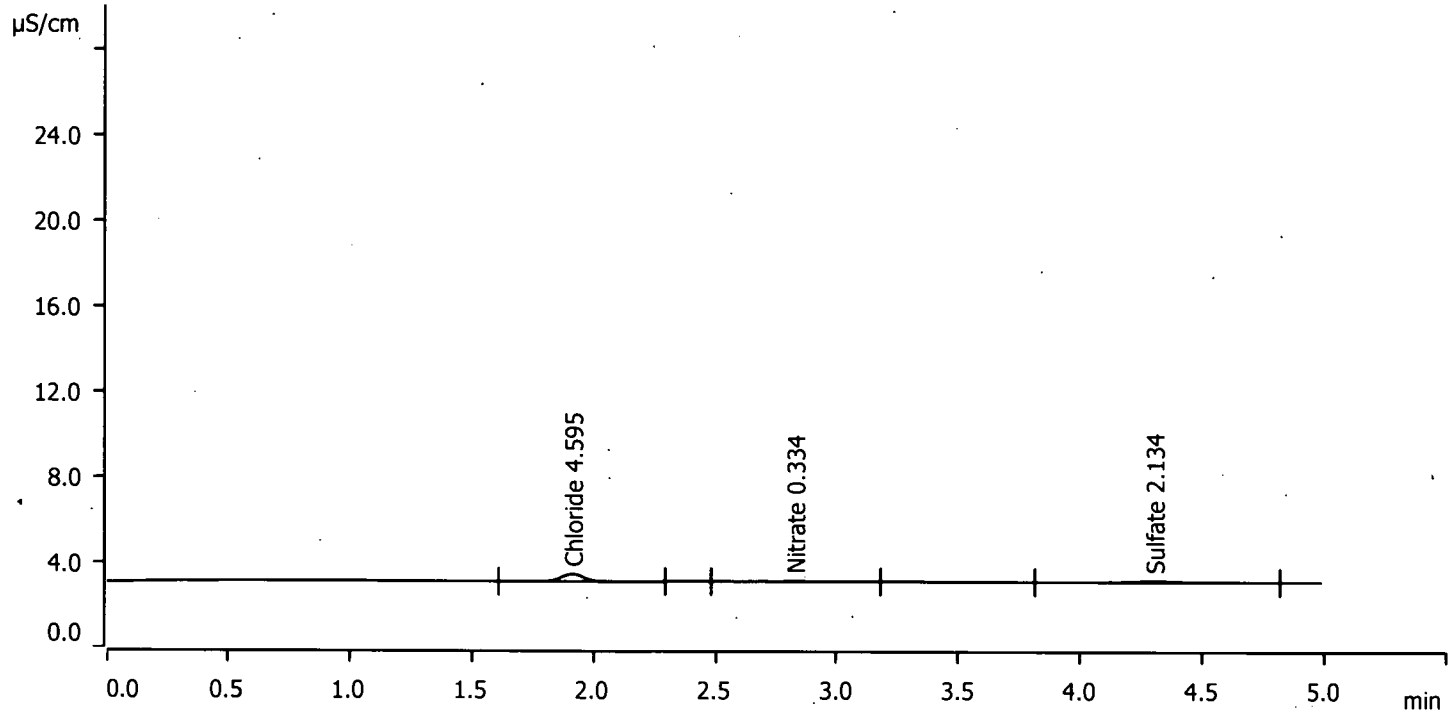
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.93	0.002	0.476	Chloride	BB
2	4.30	0.008	1.345	Sulfate	BBI

Sample data

Ident	R2408152-005
Sample type	Sample
Determination start	2024-09-14 16:15:42 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92271
Sample Position	72
Comment 1	300.0 CS
Comment 2	

Anions



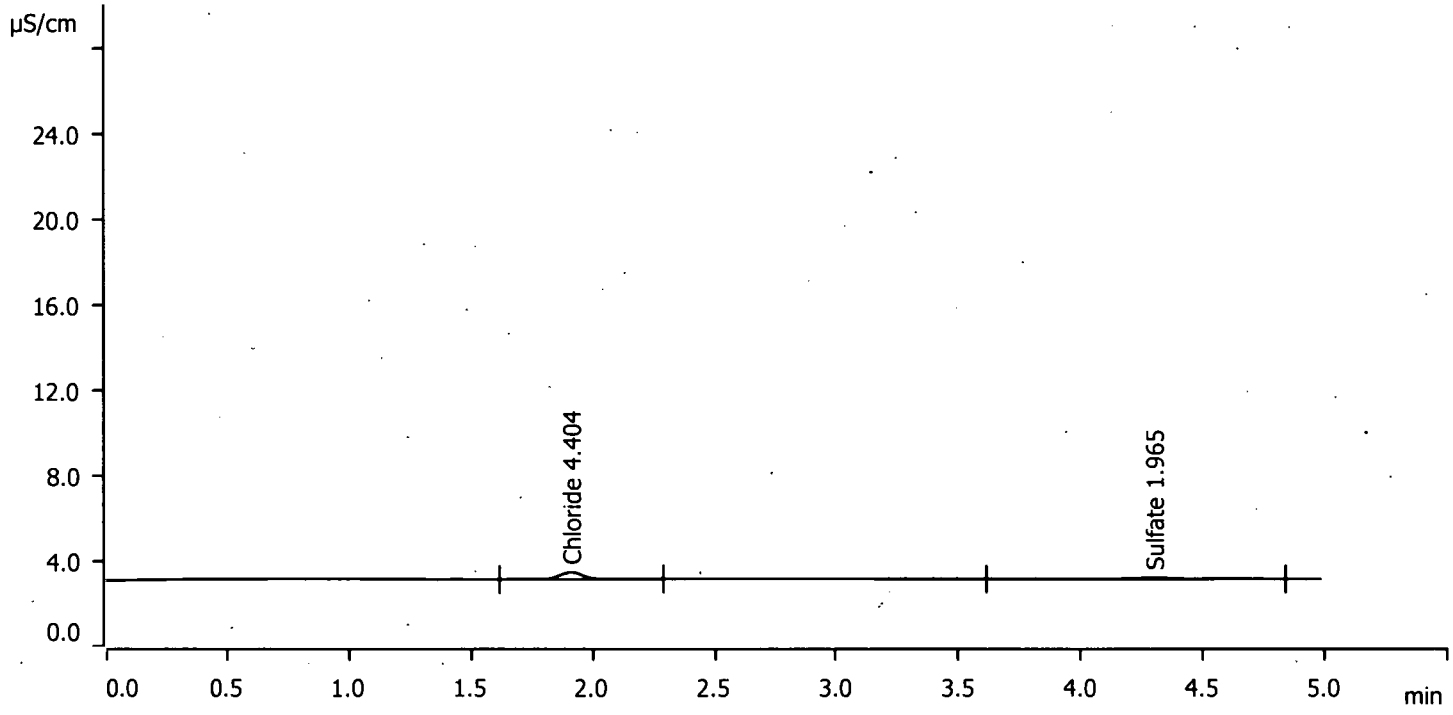
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.038	4.595	Chloride	BB
2	2.83	0.003	0.334	Nitrate	BB
3	4.30	0.013	2.134	Sulfate	BB

Sample data

Ident	R2408152-007
Sample type	Sample
Determination start	2024-09-14 16:21:57 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92272
Sample Position	73
Comment 1	300.0 CS
Comment 2	

Anions



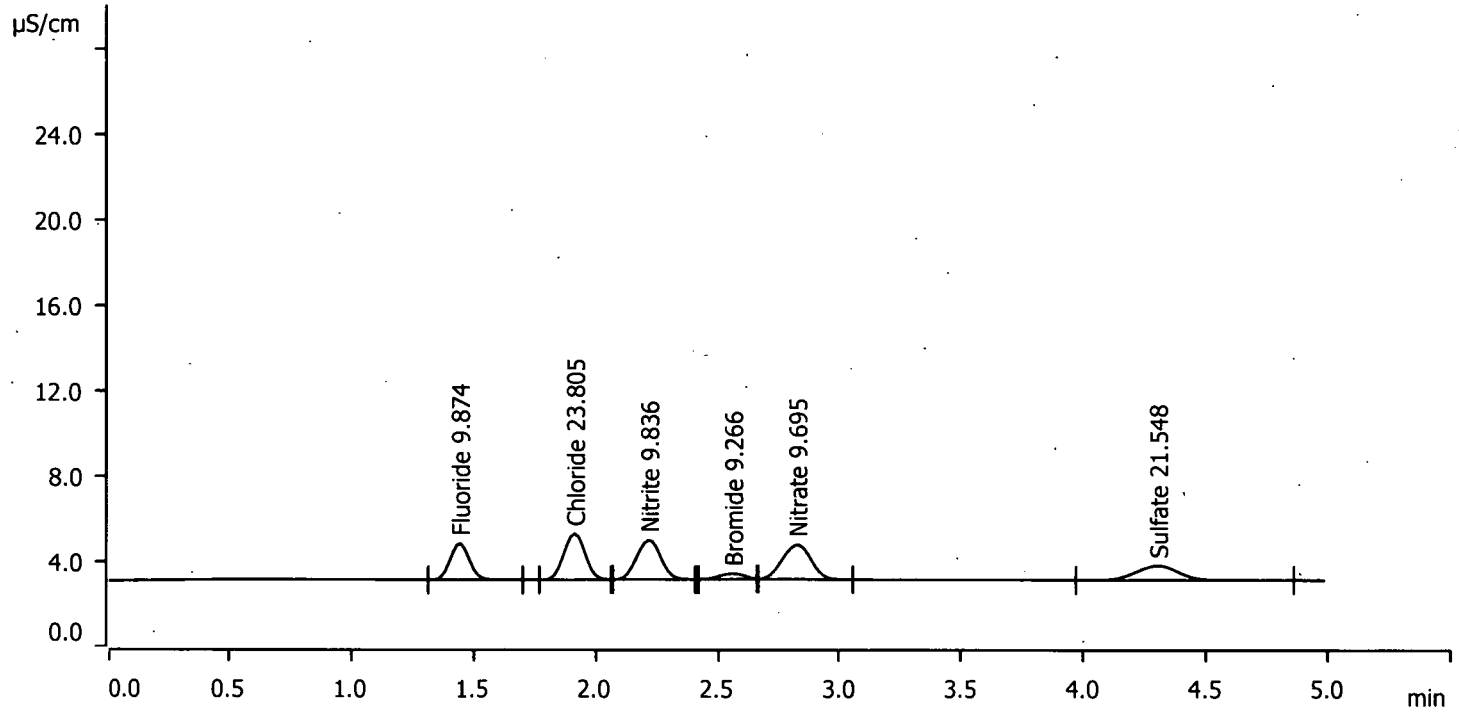
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.036	4.404	Chloride	BB
2	4.30	0.012	1.965	Sulfate	BBI

Sample data

Ident	R2408152-007 MS
Sample type	Sample
Determination start	2024-09-14 16:28:12 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92273
Sample Position	74
Comment 1	300.0 CS
Comment 2	

Anions



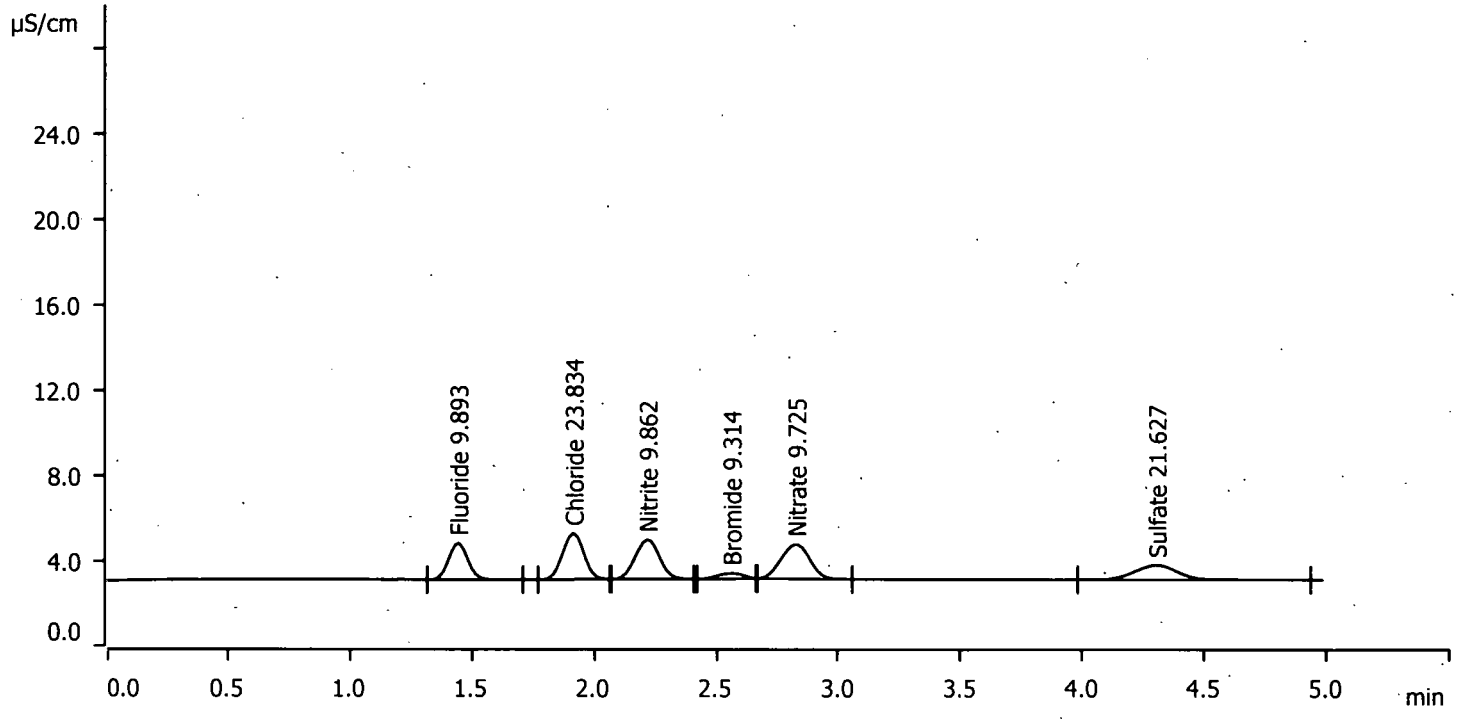
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.155	9.874	Fluoride	BB
2	1.92	0.217	23.805	Chloride	BB
3	2.22	0.212	9.836	Nitrite	BB
4	2.57	0.030	9.266	Bromide	BB
5	2.83	0.218	9.695	Nitrate	BB
6	4.30	0.139	21.548	Sulfate	BB

Sample data

Ident	R2408152-007 MSD
Sample type	Sample
Determination start	2024-09-14 16:34:28 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92274
Sample Position	75
Comment 1	300.0 CS
Comment 2	

Anions



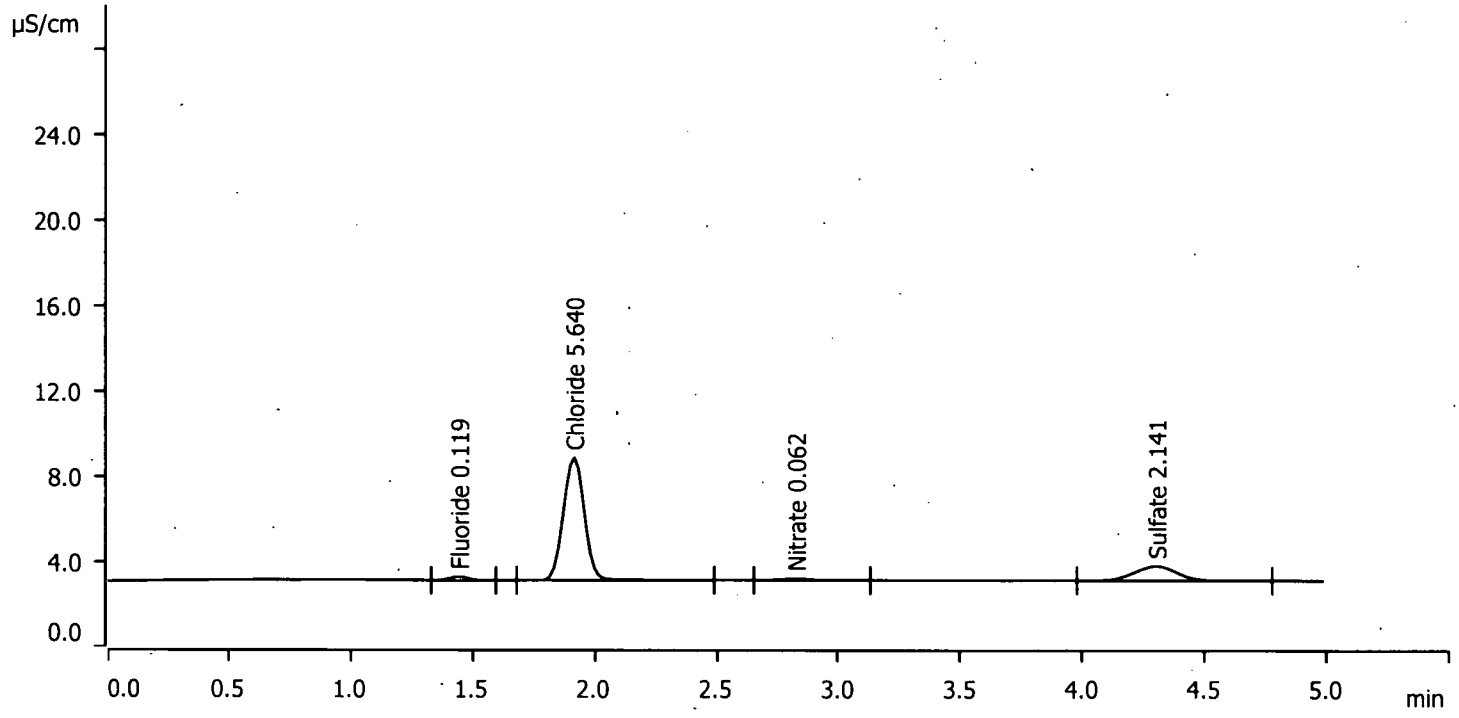
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.155	9.893	Fluoride	BB
2	1.92	0.217	23.834	Chloride	BB
3	2.22	0.213	9.862	Nitrite	BB
4	2.57	0.030	9.314	Bromide	BB
5	2.83	0.218	9.725	Nitrate	BB
6	4.31	0.139	21.627	Sulfate	BB

Sample data

Ident	R2408168-001
Sample type	Sample
Determination start	2024-09-14 16:40:44 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92275
Sample Position	76
Comment 1	300.0 FCS
Comment 2	

Anions



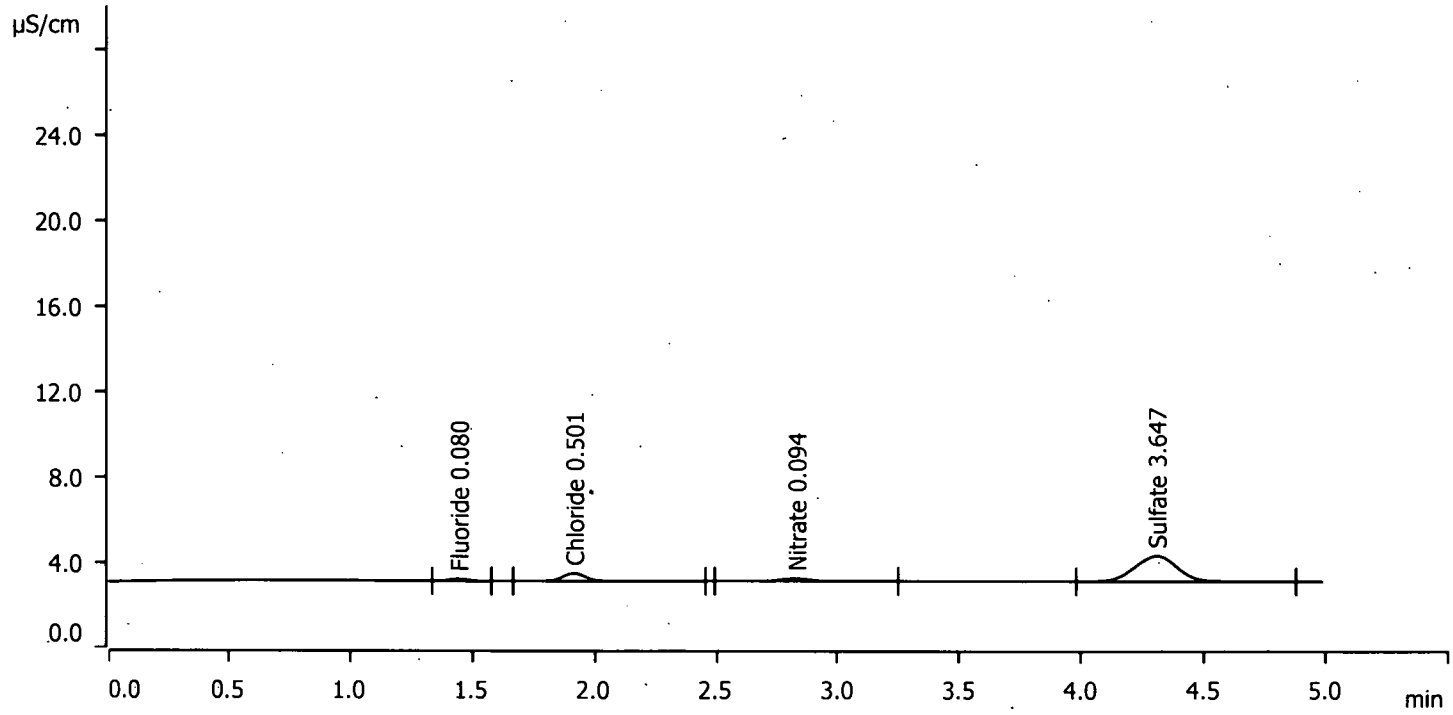
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.015	0.119	Fluoride	BB
2	1.92	0.574	5.640	Chloride	BB
3	2.83	0.009	0.062	Nitrate	BB
4	4.30	0.138	2.141	Sulfate	BB

Sample data

Ident	R2408168-003
Sample type	Sample
Determination start	2024-09-14 16:46:59 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92276
Sample Position	77
Comment 1	300.0 FCS
Comment 2	

Anions



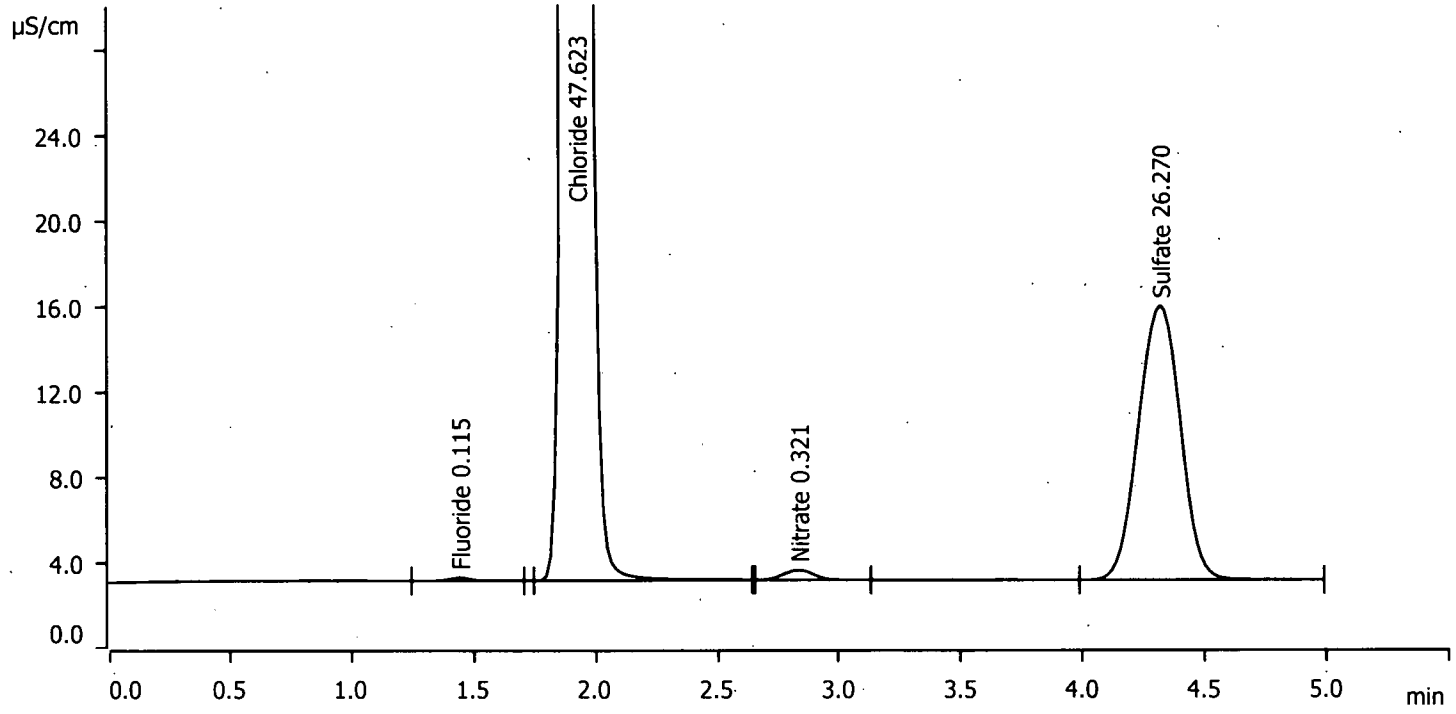
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.009	0.080	Fluoride	BB
2	1.92	0.041	0.501	Chloride	BB
3	2.83	0.016	0.094	Nitrate	BB
4	4.31	0.242	3.647	Sulfate	BB

Sample data

Ident	R2408168-005
Sample type	Sample
Determination start	2024-09-14 16:53:14 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92277
Sample Position	78
Comment 1	300.0 F
Comment 2	

Anions



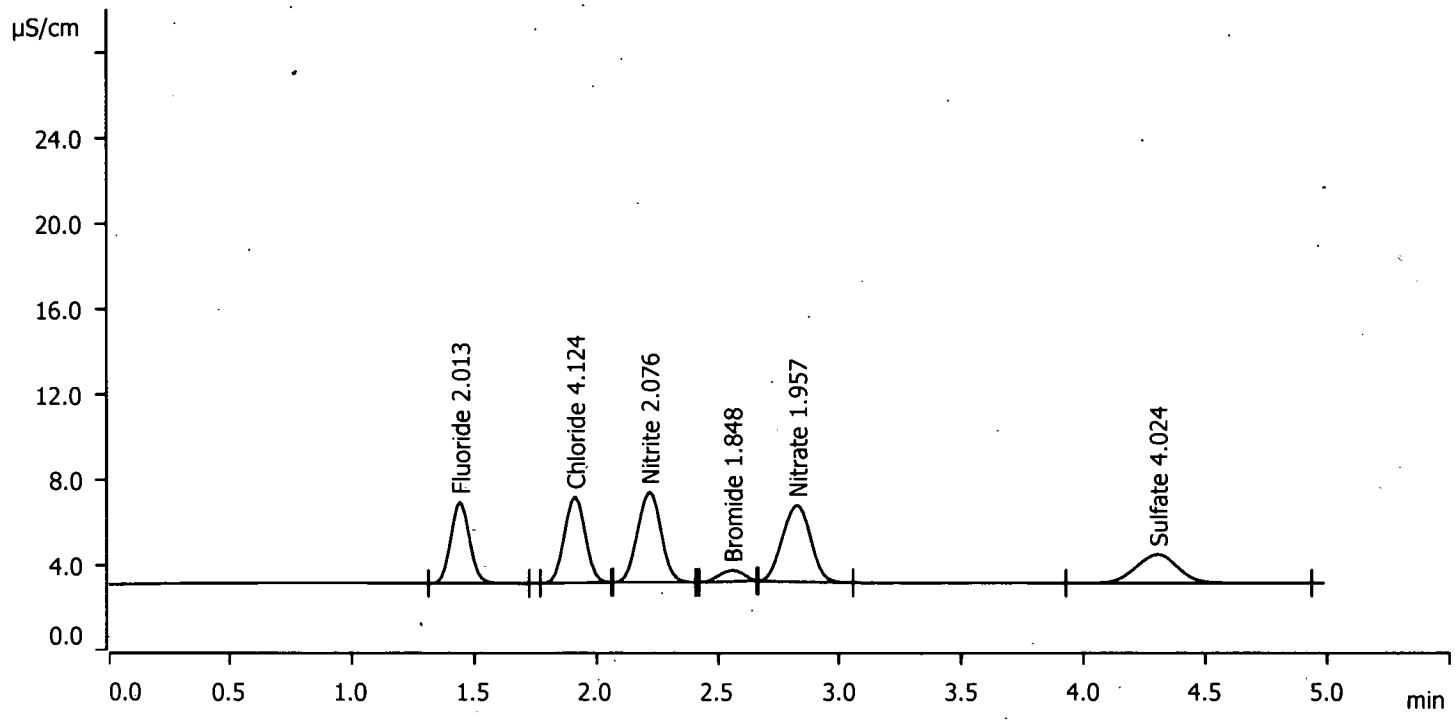
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.014	0.115	Fluoride	BB
2	1.93	11.011	47.623	Chloride	BB
3	2.84	0.066	0.321	Nitrate	BB
4	4.32	2.560	26.270	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-14 16:59:30 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92278
Sample Position	79
Comment 1	300.0/9056A
Comment 2	

Anions



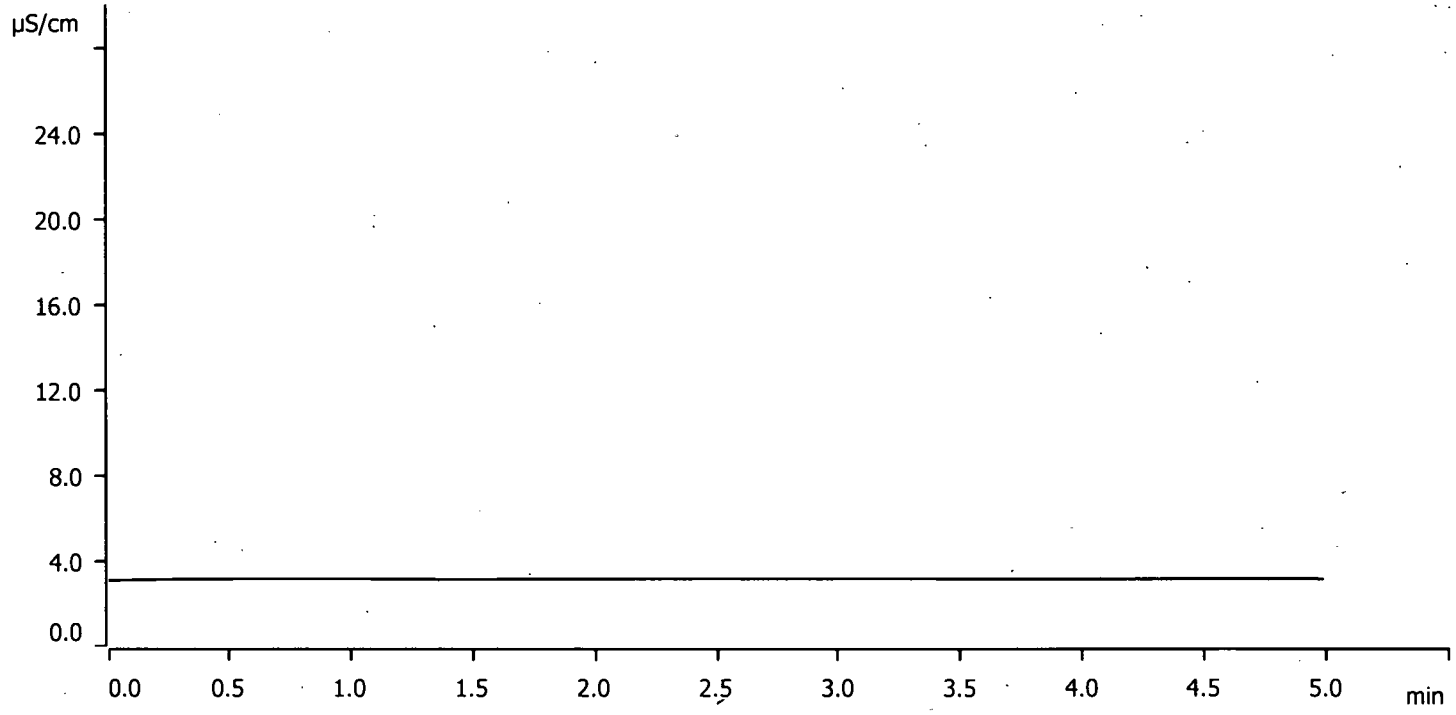
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.338	2.013	Fluoride	BB
2	1.92	0.400	4.124	Chloride	BB
3	2.22	0.480	2.076	Nitrite	BB
4	2.56	0.061	1.848	Bromide	BB
5	2.83	0.475	1.957	Nitrate	BB
6	4.30	0.269	4.024	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-14 17:05:46 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92279
Sample Position	80
Comment 1	300.0/9056A
Comment 2	

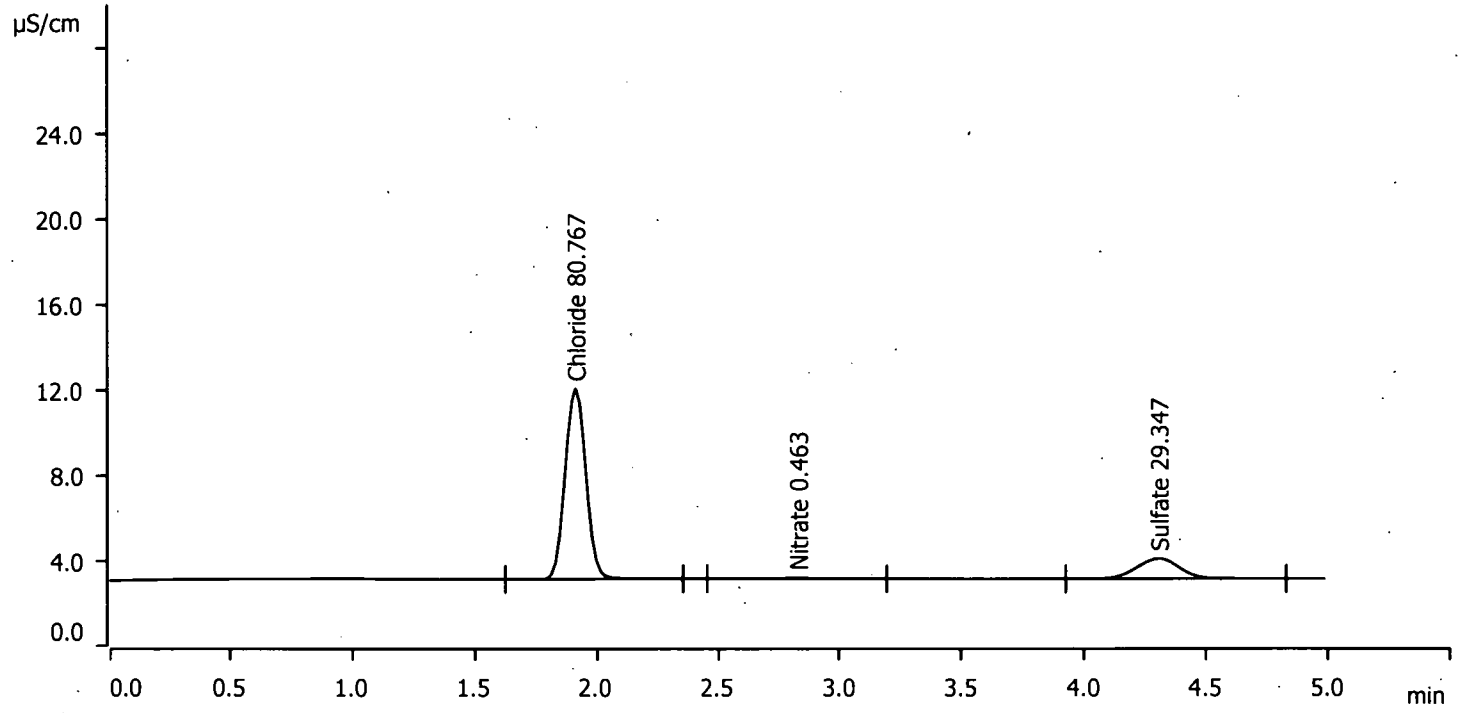
Anions



Sample data

Ident	R2408168-005
Sample type	Sample
Determination start	2024-09-14 17:12:00 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92280
Sample Position	81
Comment 1	300.0 CS
Comment 2	

Anions



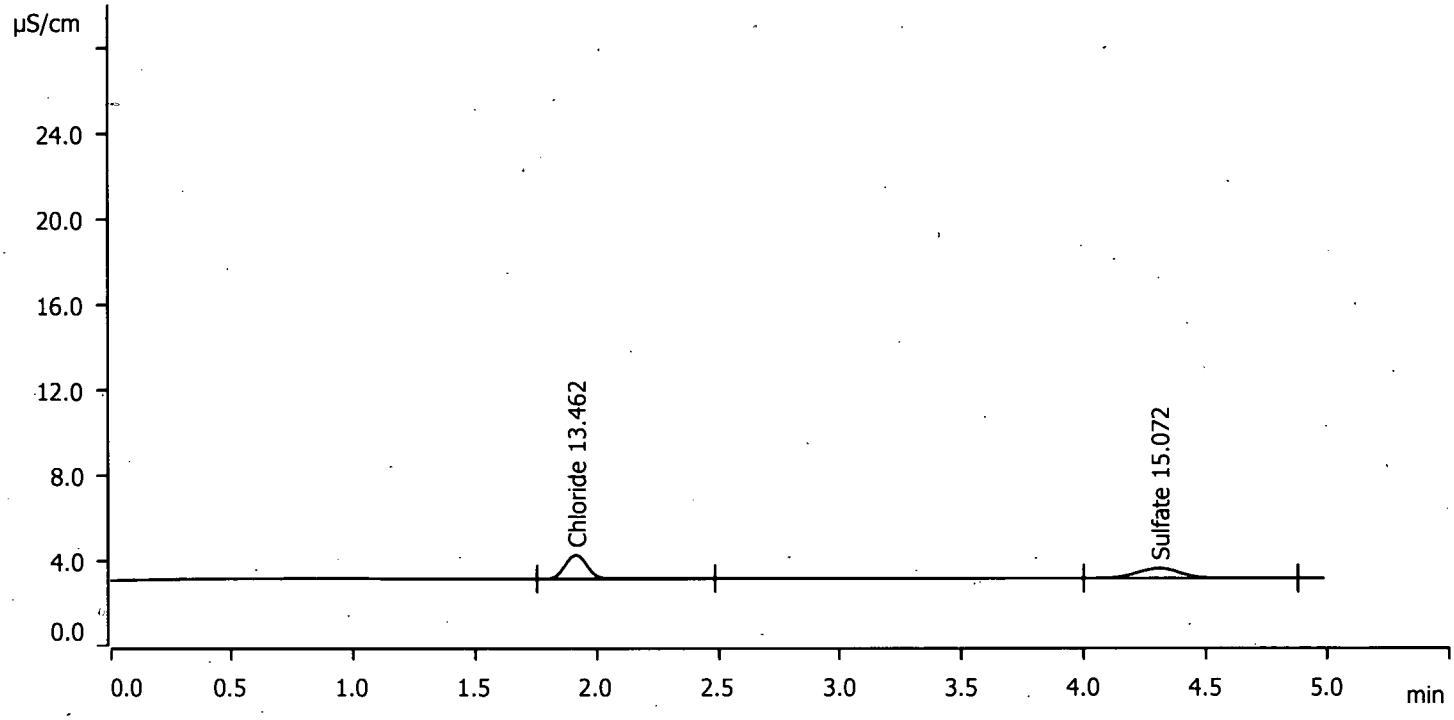
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.883	80.767	Chloride	BB
2	2.83	0.006	0.463	Nitrate	BB
3	4.31	0.192	29.347	Sulfate	BB

Sample data

Ident	R2408140-002
Sample type	Sample
Determination start	2024-09-14 17:18:15 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92281
Sample Position	82
Comment 1	300.0 S
Comment 2	

Anions



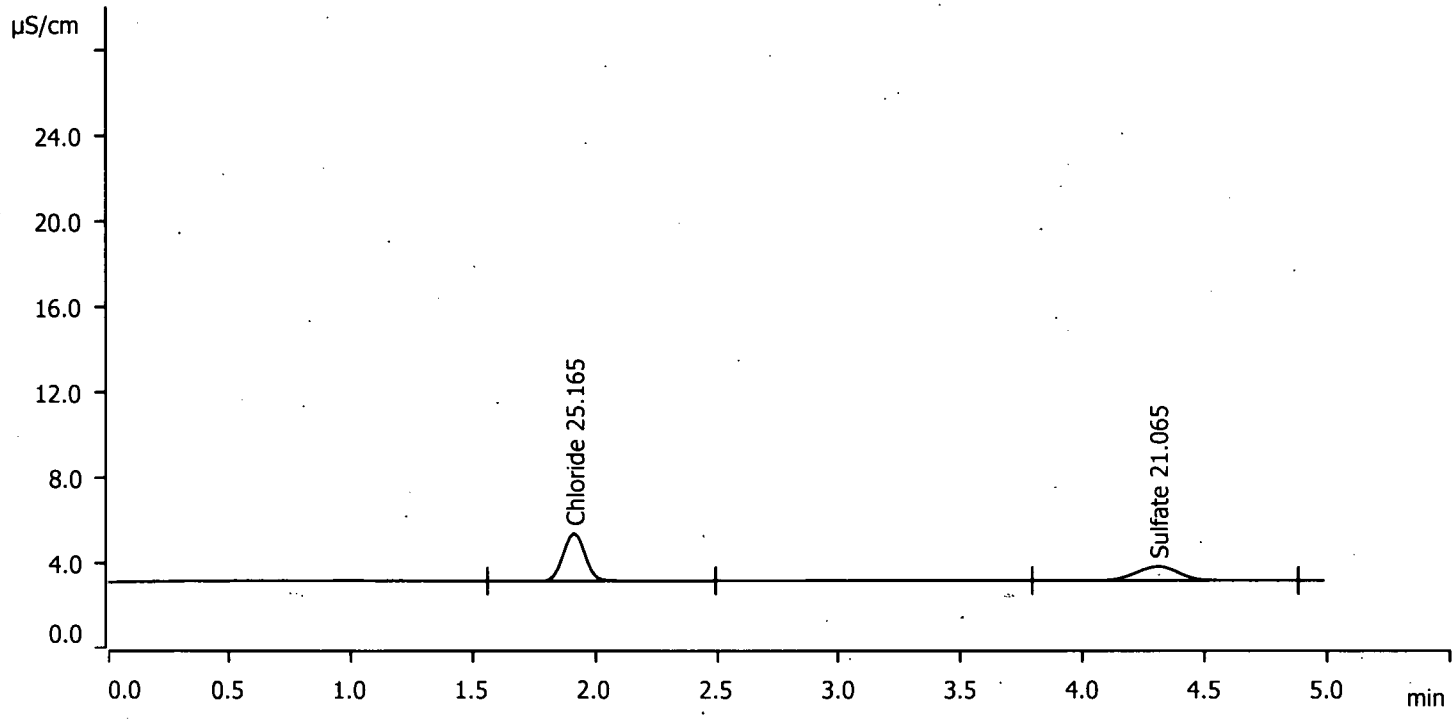
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.118	13.462	Chloride	BB
2	4.31	0.096	15.072	Sulfate	BB

Sample data

Ident	R2408140-003
Sample type	Sample
Determination start	2024-09-14 17:24:31 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92282
Sample Position	83
Comment 1	300.0 S
Comment 2	

Anions



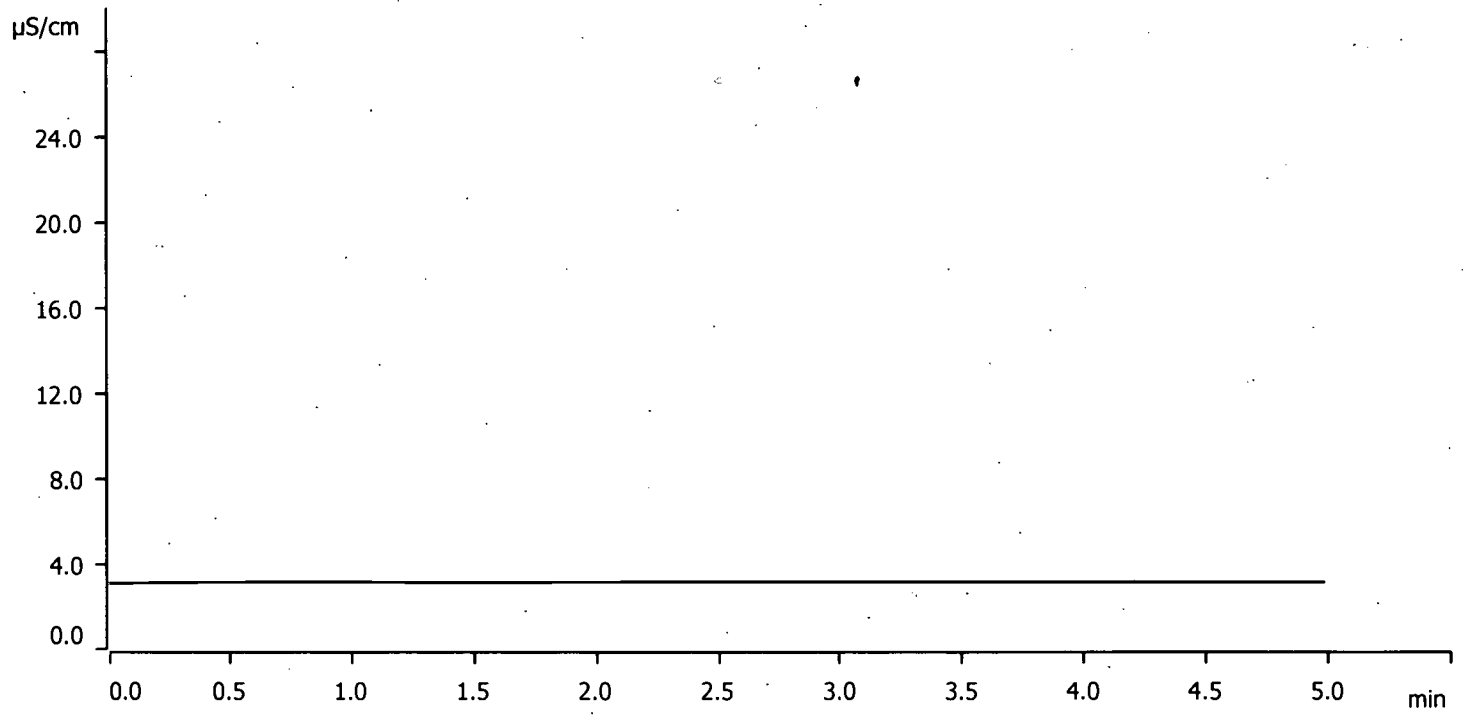
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.231	25.165	Chloride	BB
2	4.31	0.135	21.065	Sulfate	BB

Sample data

Ident	R2408140-004
Sample type	Sample
Determination start	2024-09-14 17:30:46 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92283
Sample Position	84
Comment 1	300.0 S
Comment 2	

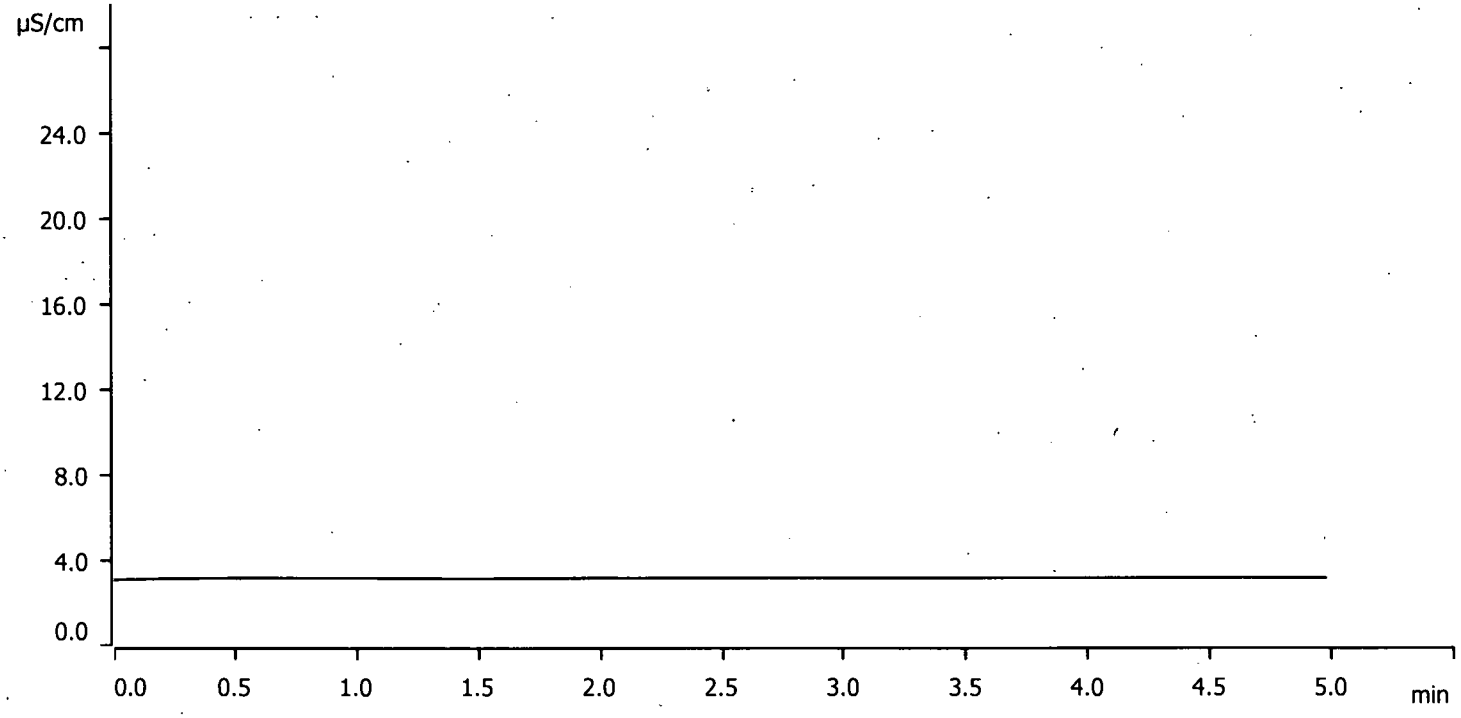
Anions



Sample data

Ident	R2408140-007
Sample type	Sample
Determination start	2024-09-14 17:37:04 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92284
Sample Position	85
Comment 1	300.0 S
Comment 2	

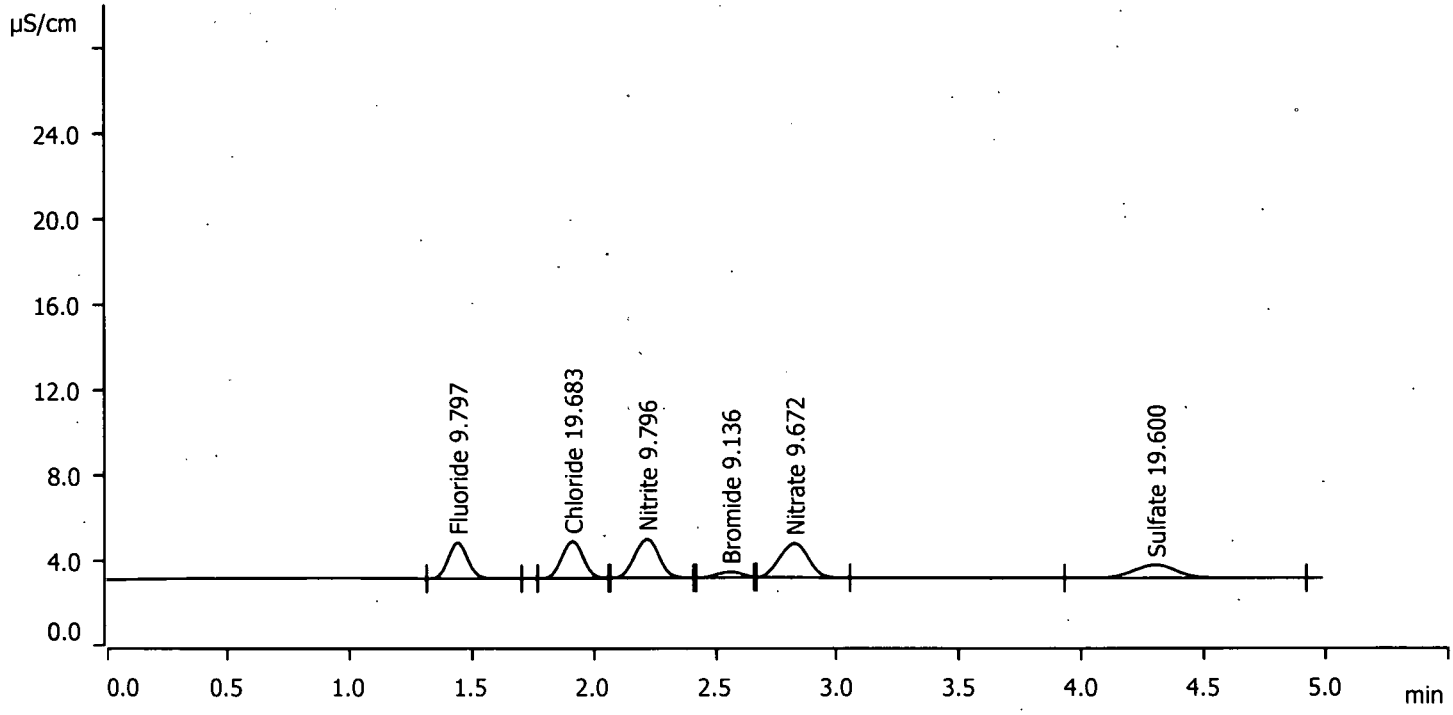
Anions



Sample data

Ident	R2408140-007 MS
Sample type	Sample
Determination start	2024-09-14 17:43:19 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92285
Sample Position	86
Comment 1	300.0 S
Comment 2	

Anions



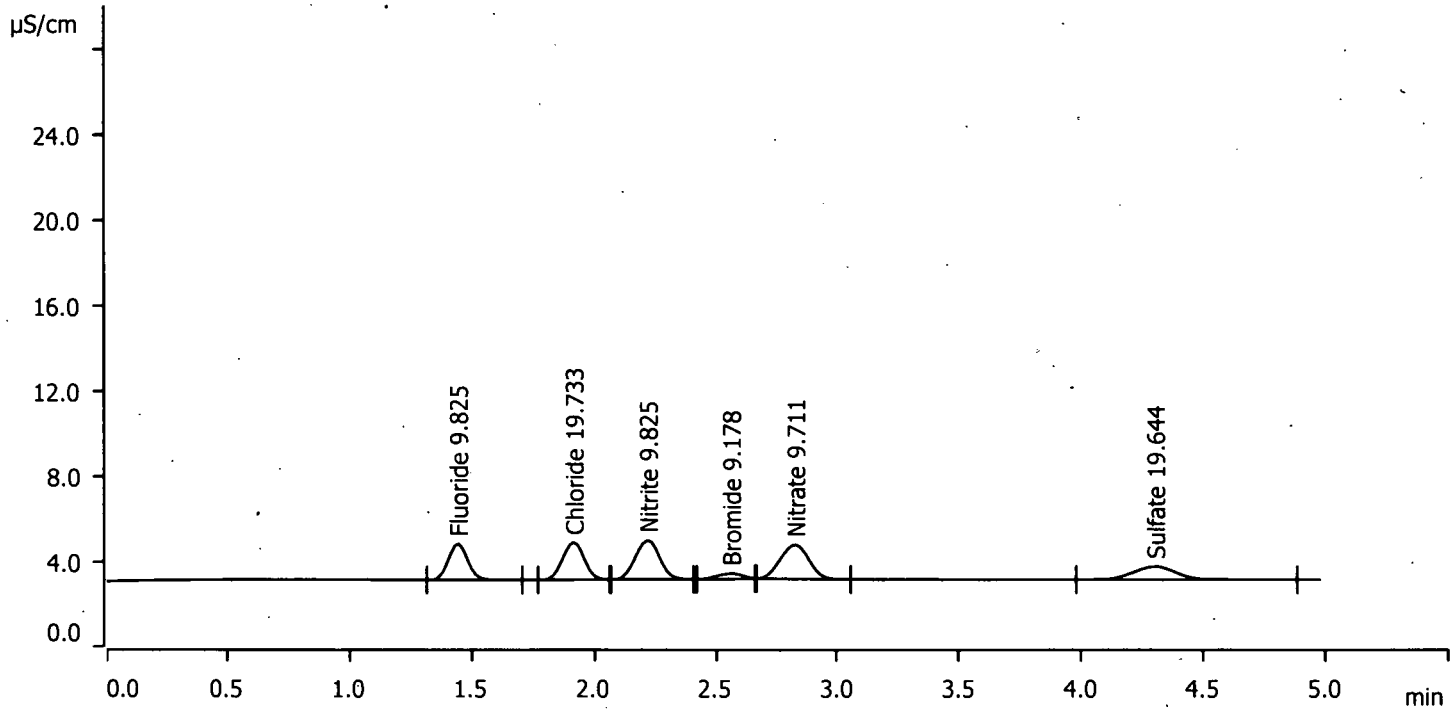
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.154	9.797	Fluoride	BB
2	1.92	0.177	19.683	Chloride	BB
3	2.22	0.211	9.796	Nitrite	BB
4	2.56	0.029	9.136	Bromide	BB
5	2.83	0.217	9.672	Nitrate	BB
6	4.30	0.126	19.600	Sulfate	BB

Sample data

Ident	R2408140-007 MSD
Sample type	Sample
Determination start	2024-09-14 17:49:34 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92286
Sample Position	87
Comment 1	300.0 S
Comment 2	

Anions



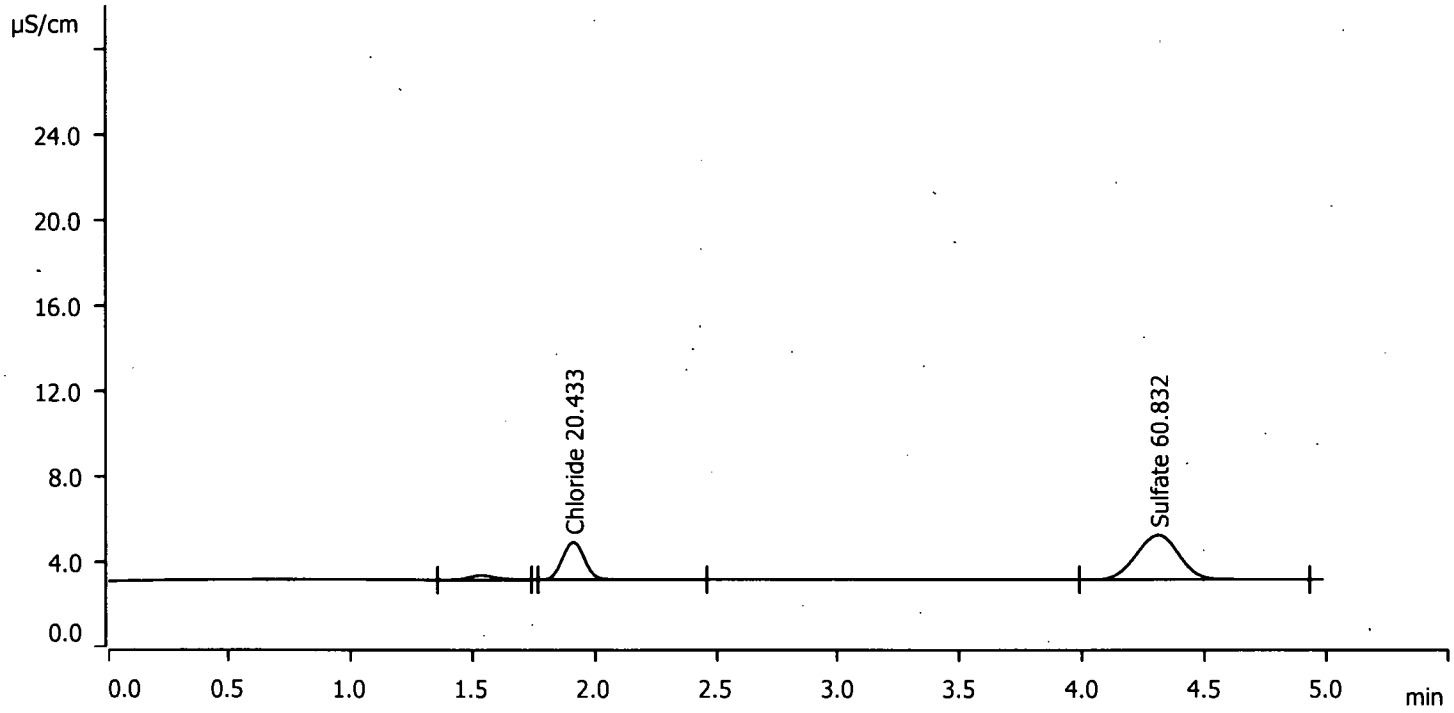
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.154	9.825	Fluoride	BB
2	1.92	0.177	19.733	Chloride	BB
3	2.22	0.212	9.825	Nitrite	BB
4	2.57	0.029	9.178	Bromide	BB
5	2.83	0.218	9.711	Nitrate	BB
6	4.30	0.126	19.644	Sulfate	BB

Sample data

Ident	R2408140-012
Sample type	Sample
Determination start	2024-09-14 17:55:50 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92287
Sample Position	88
Comment 1	300.0 S
Comment 2	

Anions



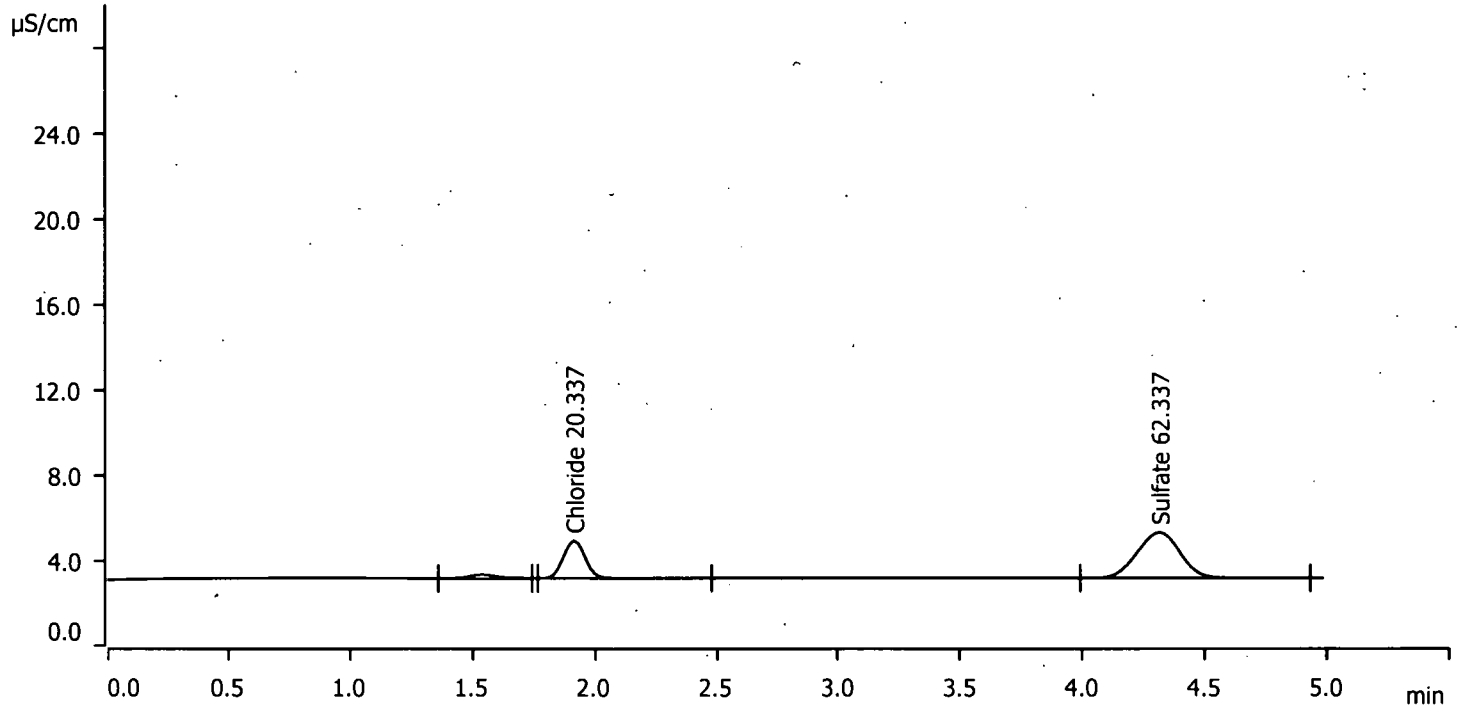
Anions

Peak number	Retention time	Area	Concentration	Component name	Type
	min	(µS/cm) x min	ppm		
2	1.92	0.184	20.433	Chloride	BB
3	4.31	0.424	60.832	Sulfate	BB

Sample data

Ident	R2408140-013
Sample type	Sample
Determination start	2024-09-14 18:02:05 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92288
Sample Position	89
Comment 1	300.0 S
Comment 2	

Anions



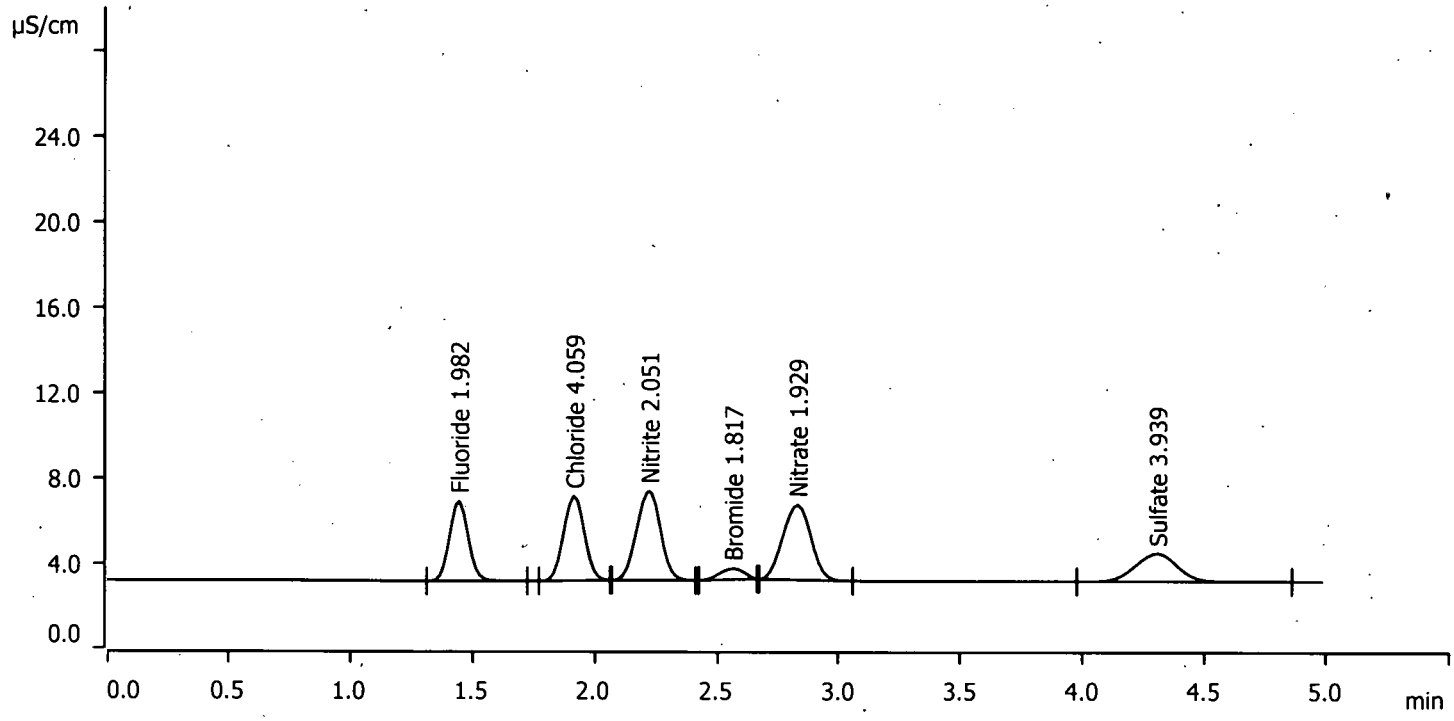
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.92	0.183	20.337	Chloride	BB
3	4.32	0.436	62.337	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-14 18:39:15 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92289
Sample Position	90
Comment 1	300.0/9056A
Comment 2	

Anions



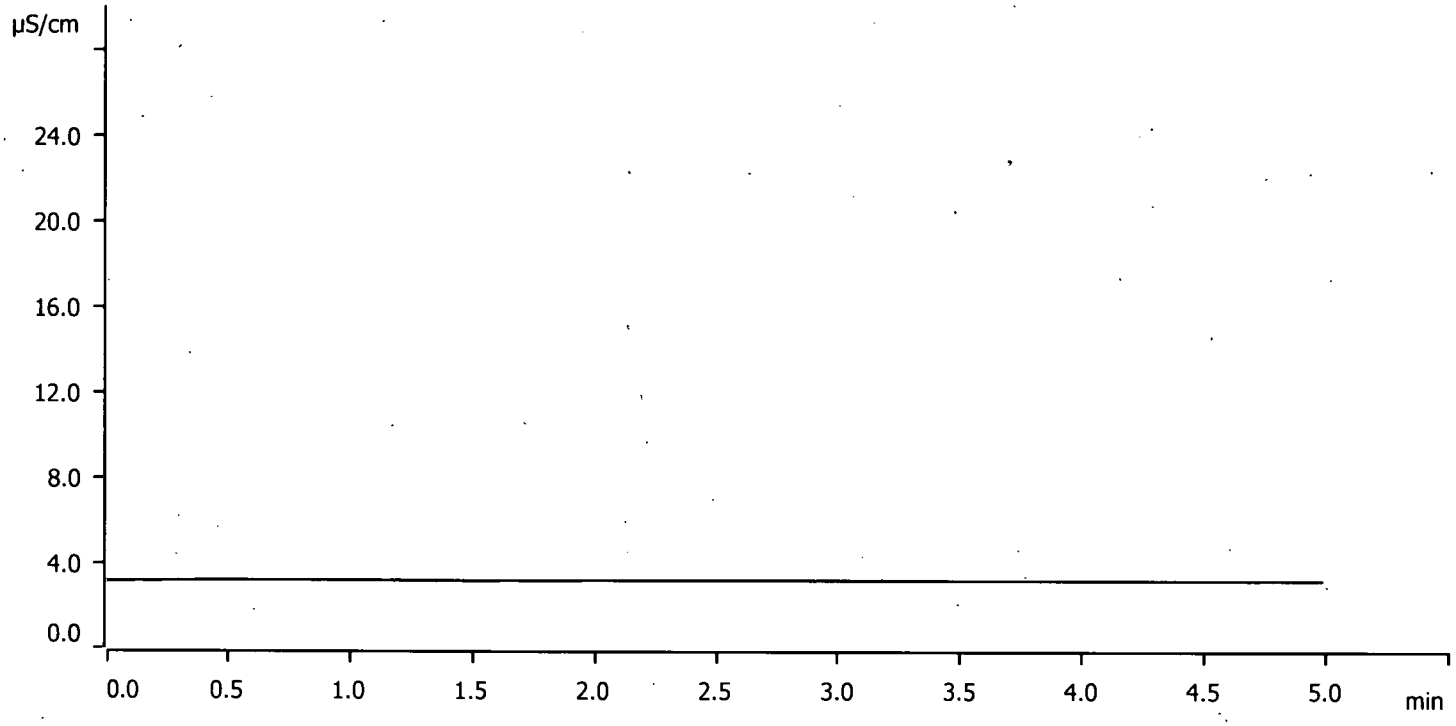
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.332	1.982	Fluoride	BB
2	1.92	0.393	4.059	Chloride	BB
3	2.23	0.474	2.051	Nitrite	BB
4	2.57	0.060	1.817	Bromide	BB
5	2.83	0.467	1.929	Nitrate	BB
6	4.31	0.263	3.939	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-14 18:45:31 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92290
Sample Position	91
Comment 1	300.0/9056A
Comment 2	

Anions



ALS Environmental

1575 Jefferson Road, Building 300, Suite 360, Rochester, New York 14623

Ion Chromatography Cover Sheet

Instrument: Metrohm IC 930 (IC#10)

Column: Dionex IonPac AS22-Fast (Installed 07/25/2024)

Curve Date: 09/12/24 **Loop size: 25 uL Loop**

Analyst: KW, KAW **Analysis Date:** 9-14-24

Balance ID for Soil Preparation: N/A

Is copy of LCS attached to run? (YES) / NO

Method Filename: 10-091224FAST

Standards Prep Dates & Log ID's:

Std Type	*Prep Date*	*Log ID*		*Std Type*	*Prep Date*	*Log ID*
Calibration Intermediate	08/09/2024	236789		Working Calibration Stds	09/12/2024	WC236014B
LCS / MS Intermediate	08/09/2024	236789		Working LCS/MS Standard	09/14/2024	WC236098J
ICV Intermediate	08/09/2024	236787		Working ICV Standard	09/12/2024	WC236040I
CCV Intermediate	08/09/2024	236787		Working CCV Standard	09/14/2024	WC236040J

Original Retention Times for this method are based on Standard 6 and are as follows:

Fluoride: 1.44	Bromide: 2.56
Chloride: 1.91	Nitrate: 2.82
Nitrite: 2.22	Sulfate: 4.27

Additional Comments: Column Serial Number: 240212573
Linear Range Verification (High Standard) Analyzed: 03/09/2024 – Due Every Six Months

Pipets: Chrome, Bottom
Disposable Pipet ID: (Fisher) 26023005

Eluent Stock (100x): 235121
Suppressor Stock (5x): 235047

LCS Prep

(Stocks delivered using volumetric glassware and brought to volume with DI. LCS expires after 7 days; if NO_2 is needed, LCS must be prepared daily.)

(MS prepared fresh daily using same volume of intermediate stock added to 100mLs sample. MS not prepared volumetrically.)

Analyte	Calibration Intermediate Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst / Date Prepped	Lot ID	Exp. Date	Matrix H_2SO_4 / NaOH / DI	H_2SO_4 / NaOH Lot #
F	236784	50	2.0	200	1.0	KW 9/3/24	A	9/10/24	DI	—
Cl		100			2.0	KW 9/4/24	B	9/11/24	DI	—
NO_2		50			1.0	KW 9/5/24	C	9/12/24	DI	—
Br		50			1.0	KW 9/6/24	D	9/13/24	DI	
NO_3		50			1.0	KW 9/7/24	E	9/14/24	DI	—
OPO_4		50			1.0	KW 9/9/24	F	9/16/24	DI	—
SO_4		100			2.0	KW 9/10/24	G	9/17/24	DI	—
						KW 9/11/24	H	9/18/24	DI	—
						KW 9/12/24	I	9/19/24	DI	—
						KW 9/14/24	J	9/21/24	DI	—
						KW 9/15/24	K	9/22/24	DI	—
						KW 9/16/24	L	9/23/24	DI	—
							M			
							N			
							O			
							P			
							Q			
							R			

ICV / CCV PREP

(A 1:1 dilution of the Reference Intermediate Stock is done daily.)

Analyte	ICV / CCV Intermediate Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst / Date Prepped	Lot ID	Exp. Date	Matrix H_2SO_4 / NaOH / DI	H_2SO_4 / NaOH Lot #
F	236787	4.00	5.0	10.0	2.00	KW 9/3/24	A	9/4/24	DI	—
Cl		8.00			4.00	KW 9/4/24	B	9/5/24	DI	—
NO_2		4.00			2.00	KW 9/5/24	C	9/6/24	DI	—
Br		4.00			2.00	KW 9/6/24	D	9/7/24	DI	—
NO_3		4.00			2.00	KW 9/7/24	E	9/8/24	DI	—
OPO_4		4.00			2.00	KW 9/9/24	F	9/10/24	DI	—
SO_4		8.00			4.00	KW 9/10/24	G	9/11/24	DI	—
						KW 9/11/24	H	9/12/24	DI	—
						KW 9/12/24	I	9/13/24	DI	—
						KW 9/14/24	J	9/15/24	DI	—
						KW 9/15/24	K	9/16/24	DI	—
						KW 9/16/24	L	9/17/24	DI	—
							M			
							N			
							O			
							P			
							Q			
							R			

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 854126 **Method/Testcode:** 300.0/Chloride

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2Q2411714-01	Chloride	CCV		Water	4.14 mg/L	10 mL	4.14 mg/L	1					9/15/24 08:01	N	IV
2Q2411714-01	Nitrate as Nitrogen	CCV		Water	1.97 mg/L	10 mL	1.97 mg/L	1					9/15/24 08:01	N	IV
2Q2411714-01	Nitrite as Nitrogen	CCV		Water	2.05 mg/L	10 mL	2.05 mg/L	1					9/15/24 08:01	N	IV
2Q2411714-01	Sulfate	CCV		Water	4.18 mg/L	10 mL	4.18 mg/L	1					9/15/24 08:01	N	IV
2Q2411714-02	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 08:07	N	IV
2Q2411714-02	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			9/15/24 08:07	N	IV
2Q2411714-02	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			9/15/24 08:07	N	IV
2Q2411714-02	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 08:07	N	IV
2Q2411714-03	Chloride	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 08:07	N	IV
2Q2411714-03	Nitrate as Nitrogen	MB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			9/15/24 08:07	N	IV
2Q2411714-03	Nitrite as Nitrogen	MB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			9/15/24 08:07	N	IV
2Q2411714-03	Sulfate	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 08:07	N	IV
2Q2411714-04	Chloride	LCS		Water	2.02 mg/L	10 mL	2.02 mg/L	1	0.05	0.20	101		9/15/24 08:13	N	IV
2Q2411714-04	Nitrate as Nitrogen	LCS		Water	1.00 mg/L	10 mL	0.995 mg/L	1	0.02	0.10	100		9/15/24 08:13	N	IV
2Q2411714-04	Nitrite as Nitrogen	LCS		Water	1.00 mg/L	10 mL	1.00 mg/L	1	0.02	0.10	100		9/15/24 08:13	N	IV
2Q2411714-04	Sulfate	LCS		Water	2.05 mg/L	10 mL	2.05 mg/L	1	0.04	0.20	103		9/15/24 08:13	N	IV
2409013-001	Nitrate as Nitrogen	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/15/24 08:20	N	IV
2409013-001	Sulfate	N/A		Water	0.00 mg/L	10 mL	2.0 mg/L U	10	0.4	2.0			9/15/24 08:20	N	IV
2409013-002	Chloride	N/A		Water	3.46 mg/L	10 mL	3.5 mg/L	10	0.5	2.0			9/15/24 08:26	N	IV
2409013-002	Nitrate as Nitrogen	N/A		Water	0.26 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/15/24 08:26	N	IV
2409013-002	Sulfate	N/A		Water	29.08 mg/L	10 mL	29.1 mg/L	10	0.4	2.0			9/15/24 08:26	N	IV
2409013-003	Nitrate as Nitrogen	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/15/24 08:32	N	IV
2409013-003	Sulfate	N/A		Water	0.00 mg/L	10 mL	2.0 mg/L U	10	0.4	2.0			9/15/24 08:32	N	IV
2409013-004	Chloride	N/A		Water	8.05 mg/L	10 mL	8.0 mg/L	10	0.5	2.0			9/15/24 08:38	Y	IV
2409013-004	Nitrate as Nitrogen	N/A		Water	0.83 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/15/24 08:38	Y	IV
2409013-004	Sulfate	N/A		Water	16.20 mg/L	10 mL	16.2 mg/L	10	0.4	2.0			9/15/24 08:38	Y	IV
2Q2411714-09	Chloride	MS	R2409013-004	Water	27.10 mg/L	10 mL	27.1 mg/L	10	0.5	2.0	95		9/15/24 08:45	N	IV
2Q2411714-09	Nitrate as Nitrogen	MS	R2409013-004	Water	10.38 mg/L	10 mL	10.4 mg/L	10	0.2	1.0	104		9/15/24 08:45	N	IV
2Q2411714-09	Sulfate	MS	R2409013-004	Water	35.00 mg/L	10 mL	35.0 mg/L	10	0.4	2.0	94		9/15/24 08:45	N	IV
2Q2411714-10	Chloride	DMS	R2409013-004	Water	27.01 mg/L	10 mL	27.0 mg/L	10	0.5	2.0	95	<1	9/15/24 08:51	N	IV
2Q2411714-10	Nitrate as Nitrogen	DMS	R2409013-004	Water	10.36 mg/L	10 mL	10.4 mg/L	10	0.2	1.0	104	<1	9/15/24 08:51	N	IV
2Q2411714-10	Sulfate	DMS	R2409013-004	Water	34.87 mg/L	10 mL	34.9 mg/L	10	0.4	2.0	93	<1	9/15/24 08:51	N	IV
2409013-006	Nitrate as Nitrogen	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/15/24 08:57	N	IV
2409013-006	Sulfate	N/A		Water	91.78 mg/L	10 mL	91.8 mg/L	10	0.4	2.0			9/15/24 08:57	N	IV
2409013-007	Chloride	N/A		Water	0.00 mg/L	10 mL	2.0 mg/L U	10	0.5	2.0			9/15/24 09:03	N	IV
2409013-007	Nitrate as Nitrogen	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/15/24 09:03	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 854126 **Method/Testcode:** 300.0/SO4

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R2409013-007	Sulfate	N/A		Water	0.00 mg/L	10 mL	2.0 mg/L U	10	0.4	2.0			9/15/24 09:03	N	IV
R2409014-001	Chloride	N/A		Water	53.59 mg/L	10 mL	53.6 mg/L	10	0.5	2.0			9/15/24 09:10	N	IV
R2409014-001	Nitrate as Nitrogen	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/15/24 09:10	N	IV
R2409014-001	Sulfate	N/A		Water	26.69 mg/L	10 mL	26.7 mg/L	10	0.4	2.0			9/15/24 09:10	N	IV
RQ2411714-05	Chloride	CCV		Water	4.10 mg/L	10 mL	4.10 mg/L	1					9/15/24 09:16	N	IV
RQ2411714-05	Nitrate as Nitrogen	CCV		Water	1.95 mg/L	10 mL	1.95 mg/L	1					9/15/24 09:16	N	IV
RQ2411714-05	Nitrite as Nitrogen	CCV		Water	2.06 mg/L	10 mL	2.06 mg/L	1					9/15/24 09:16	N	IV
RQ2411714-05	Sulfate	CCV		Water	3.97 mg/L	10 mL	3.97 mg/L	1					9/15/24 09:16	N	IV
RQ2411714-06	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 09:22	N	IV
RQ2411714-06	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			9/15/24 09:22	N	IV
RQ2411714-06	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			9/15/24 09:22	N	IV
RQ2411714-06	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 09:22	N	IV
R2408912-001	Chloride	N/A		Water	54.49 mg/L	10 mL	54.5 mg/L	10	0.5	2.0			9/15/24 09:28	N	II
R2408912-001	Nitrate as Nitrogen	N/A		Water	0.63 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/15/24 09:28	N	II
R2409005-001	Nitrite as Nitrogen	N/A		Water	0.00 mg/L	10 mL	1.0 mg/L U	10	0.2	1.0			9/15/24 09:35	N	II
R2409005-001	Chloride	N/A		Water	131.51 mg/L	10 mL	132 mg/L	20	0.9	4.0			9/15/24 09:41	N	II
R2408385-007	Sulfate	N/A		Water	249.33 mg/L	10 mL	249 mg/L	40	1.6	8.0			9/15/24 09:47	N	II
R2408385-008	Sulfate	N/A		Water	268.99 mg/L	10 mL	269 mg/L	40	1.6	8.0			9/15/24 09:53	N	II
R2408385-009	Sulfate	N/A		Water	1597.47 mg/L	10 mL	1600 mg/L	300	12	60			9/15/24 10:00	N	II
R2408385-010	Sulfate	N/A		Water	924.80 mg/L	10 mL	925 mg/L	200	8	40			9/15/24 10:06	N	II
RQ2411714-11	Sulfate	MS	R2408385-010	Water	1294.04 mg/L	10 mL	1290 mg/L	200	8	40	92		9/15/24 10:12	N	II
RQ2411714-12	Sulfate	DMS	R2408385-010	Water	1295.61 mg/L	10 mL	1300 mg/L	200	8	40	93	<1	9/15/24 10:18	N	II
R2408385-011	Sulfate	N/A		Water	41.58 mg/L	10 mL	41.6 mg/L	10	0.4	2.0			9/15/24 10:25	N	II
RQ2411714-08	Chloride	CCV		Water	4.09 mg/L	10 mL	4.09 mg/L	1					9/15/24 10:32	N	II
RQ2411714-08	Nitrate as Nitrogen	CCV		Water	1.95 mg/L	10 mL	1.95 mg/L	1					9/15/24 10:32	N	II
RQ2411714-08	Nitrite as Nitrogen	CCV		Water	2.05 mg/L	10 mL	2.05 mg/L	1					9/15/24 10:32	N	II
RQ2411714-08	Sulfate	CCV		Water	3.98 mg/L	10 mL	3.98 mg/L	1					9/15/24 10:32	N	II
RQ2411714-07	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 10:38	N	II
RQ2411714-07	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			9/15/24 10:38	N	II
RQ2411714-07	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.02	0.10			9/15/24 10:38	N	II
RQ2411714-07	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 10:38	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 854128 **Method/Testcode:** 300.0/SO4

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2411715-01	Sulfate	CCV		Water	3.98 mg/L	10 mL	3.98 mg/L	1					9/15/24 10:32	N	II
KQ2411715-02	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 10:38	N	II
KQ2411715-03	Sulfate	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 10:38	N	II
KQ2411715-04	Sulfate	LCS		Water	2.02 mg/L	10 mL	2.02 mg/L	1	0.04	0.20	101		9/15/24 10:44	N	II
K2408385-012	Sulfate	N/A		Water	218.15 mg/L	10 mL	218 mg/L	40	1.6	8.0			9/15/24 10:51	N	II
K2408385-013	Sulfate	N/A		Water	416.97 mg/L	10 mL	417 mg/L	100	4	20			9/15/24 10:57	N	II
K2408385-014	Sulfate	N/A		Water	167.04 mg/L	10 mL	167 mg/L	40	1.6	8.0			9/15/24 11:03	N	II
K2408385-015	Sulfate	N/A		Water	1072.95 mg/L	10 mL	1070 mg/L	200	8	40			9/15/24 11:09	N	II
K2408385-016	Sulfate	N/A		Water	2469.31 mg/L	10 mL	2470 mg/L	400	16	80			9/15/24 11:16	N	II
K2408385-017	Sulfate	N/A		Water	303.75 mg/L	10 mL	304 mg/L	40	1.6	8.0			9/15/24 11:22	N	II
KQ2411715-09	Sulfate	MS	R2408385-017	Water	373.51 mg/L	10 mL	374 mg/L	40	1.6	8.0	87*		9/15/24 11:28	N	II
KQ2411715-10	Sulfate	DMS	R2408385-017	Water	373.85 mg/L	10 mL	374 mg/L	40	1.6	8.0	88*	<1	9/15/24 11:34	N	II
K2408385-018	Sulfate	N/A		Water	1403.47 mg/L	10 mL	1400 mg/L	200	8	40			9/15/24 11:41	N	II
KQ2411715-05	Sulfate	CCV		Water	3.97 mg/L	10 mL	3.97 mg/L	1					9/15/24 11:47	N	II
KQ2411715-06	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 11:53	N	II
K2408385-019	Sulfate	N/A		Water	7128.23 mg/L	10 mL	7130 mg/L	2000	80	400			9/15/24 11:59	N	II
K2408385-020	Sulfate	N/A		Water	7142.14 mg/L	10 mL	7140 mg/L	2000	80	400			9/15/24 12:06	N	II
K2408385-021	Sulfate	N/A		Water	163.80 mg/L	10 mL	164 mg/L	40	1.6	8.0			9/15/24 12:12	N	II
K2408385-023	Sulfate	N/A		Water	119.85 mg/L	10 mL	120 mg/L	20	0.8	4.0			9/15/24 12:18	N	II
K2408385-024	Sulfate	N/A		Water	384.79 mg/L	10 mL	385 mg/L	100	4	20			9/15/24 12:25	N	II
KQ2411715-11	Sulfate	MS	R2408385-024	Water	571.28 mg/L	10 mL	571 mg/L	100	4	20	93		9/15/24 12:31	N	II
KQ2411715-12	Sulfate	DMS	R2408385-024	Water	573.68 mg/L	10 mL	574 mg/L	100	4	20	94	<1	9/15/24 12:37	N	II
K2408139-001	Sulfate	N/A		Water	25.86 mg/L	10 mL	25.9 mg/L	10	0.4	2.0			9/15/24 12:43	N	IV
K2408139-002	Sulfate	N/A		Water	68.90 mg/L	10 mL	68.9 mg/L	10	0.4	2.0			9/15/24 12:50	N	IV
K2408139-003	Sulfate	N/A		Water	6.21 mg/L	10 mL	6.2 mg/L	10	0.4	2.0			9/15/24 12:56	N	IV
KQ2411715-08	Sulfate	CCV		Water	3.95 mg/L	10 mL	3.95 mg/L	1					9/15/24 13:02	N	IV
KQ2411715-07	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 13:08	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 854129 **Method/Testcode:** 300.0/Chloride

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ2411716-02	Chloride	CCV		Water	4.06 mg/L	10 mL	4.06 mg/L	1					9/15/24 13:02	N	IV
RQ2411716-02	Sulfate	CCV		Water	3.95 mg/L	10 mL	3.95 mg/L	1					9/15/24 13:02	N	IV
RQ2411716-01	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 13:08	N	IV
RQ2411716-01	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 13:08	N	IV
RQ2411716-04	Chloride	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 13:08	N	IV
RQ2411716-04	Sulfate	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 13:08	N	IV
RQ2411716-03	Chloride	LCS		Water	2.02 mg/L	10 mL	2.02 mg/L	1	0.05	0.20	101		9/15/24 13:15	N	IV
RQ2411716-03	Sulfate	LCS		Water	2.01 mg/L	10 mL	2.01 mg/L	1	0.04	0.20	100		9/15/24 13:15	N	IV
R2408139-004	Sulfate	N/A		Water	6.14 mg/L	10 mL	6.1 mg/L	10	0.4	2.0			9/15/24 13:21	N	IV
R2408139-005	Sulfate	N/A		Water	24.59 mg/L	10 mL	24.6 mg/L	10	0.4	2.0			9/15/24 13:27	N	IV
R2408139-008	Sulfate	N/A		Water	40.54 mg/L	10 mL	40.5 mg/L	10	0.4	2.0			9/15/24 13:40	Y	IV
RQ2411716-09	Sulfate	MS	R2408139-008	Water	58.29 mg/L	10 mL	58.3 mg/L	10	0.4	2.0	89*		9/15/24 13:46	N	IV
RQ2411716-10	Sulfate	DMS	R2408139-008	Water	57.99 mg/L	10 mL	58.0 mg/L	10	0.4	2.0	87*	<1	9/15/24 13:52	N	IV
R2408139-010	Sulfate	N/A		Water	1.36 mg/L	10 mL	1.4 mg/L J	10	0.4	2.0			9/15/24 13:58	N	IV
R2408139-012	Sulfate	N/A		Water	68.10 mg/L	10 mL	68.1 mg/L	10	0.4	2.0			9/15/24 14:05	N	IV
R2408139-013	Sulfate	N/A		Water	0.00 mg/L	10 mL	2.0 mg/L U	10	0.4	2.0			9/15/24 14:11	N	IV
RQ2411716-05	Chloride	CCV		Water	4.10 mg/L	10 mL	4.10 mg/L	1					9/15/24 14:17	N	IV
RQ2411716-05	Sulfate	CCV		Water	3.99 mg/L	10 mL	3.99 mg/L	1					9/15/24 14:17	N	IV
RQ2411716-06	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 14:23	N	IV
RQ2411716-06	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 14:23	N	IV
R2408139-006	Sulfate	N/A		Water	0.00 mg/L	10 mL	20 mg/L U	100	4	20			9/15/24 14:30	N	IV
R2408140-008	Sulfate	N/A		Water	0.00 mg/L	10 mL	2.0 mg/L U	10	0.4	2.0			9/15/24 14:36	N	IV
R2408140-010	Sulfate	N/A		Water	19.17 mg/L	10 mL	19.2 mg/L	10	0.4	2.0			9/15/24 14:42	N	IV
R2408212-010	Chloride	N/A		Water	223.77 mg/L	10 mL	224 mg/L	50	3	10			9/15/24 15:01	Y	IV
RQ2411716-11	Chloride	MS	R2408212-010	Water	318.11 mg/L	10 mL	318 mg/L	50	3	10	94		9/15/24 15:07	N	IV
RQ2411716-12	Chloride	DMS	R2408212-010	Water	318.76 mg/L	10 mL	319 mg/L	50	3	10	95	<1	9/15/24 15:13	N	IV
RQ2411716-08	Chloride	CCV		Water	4.13 mg/L	10 mL	4.13 mg/L	1					9/15/24 15:20	N	IV
RQ2411716-08	Sulfate	CCV		Water	4.01 mg/L	10 mL	4.01 mg/L	1					9/15/24 15:20	N	IV
RQ2411716-07	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 15:26	N	IV
RQ2411716-07	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 15:26	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** CWOODS **Analysis Lot:** 854283 **Method/Testcode:** 300.0/SO4

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2411626-03	Sulfate	CCV		Water	3.95 mg/L	10 mL	3.95 mg/L	1					9/15/24 13:02:37	N	II
KQ2411626-06	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 13:08:53	N	II
KQ2411626-08	Sulfate	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 13:08:53	N	II
KQ2411626-07	Sulfate	LCS		Water	2.01 mg/L	10 mL	2.01 mg/L	1	0.04	0.20	100		9/15/24 13:15:07	N	II
KQ2411626-02	Sulfate	CCV		Water	3.99 mg/L	10 mL	3.99 mg/L	1					9/15/24 14:17:41	N	II
KQ2411626-05	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 14:23:57	N	II
K2408635-001	Sulfate	N/A		Water	0.00 mg/L	10 mL	2.0 mg/L U	10	0.4	2.0			9/15/24 14:55:12	N	II
KQ2411626-01	Sulfate	CCV		Water	4.01 mg/L	10 mL	4.01 mg/L	1					9/15/24 15:20:13	N	II
KQ2411626-04	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 15:26:29	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Determination overview IC10 pipette: Chrome/Bottom 300.0/9056A 9/15/24 KL

	Method name	Determination start	Position	Ident	Dilution	Info 1	Info 2
1	10-091224FAST	2024-09-15 08:01:23 UTC-4	1	CCV	1	300.0/9056A	
2	10-091224FAST	2024-09-15 08:07:41 UTC-4	2	CCB	1	300.0/9056A	
3	10-091224FAST	2024-09-15 08:13:55 UTC-4	3	LCS 854126	1	300.0/9056A	
4	10-091224FAST	2024-09-15 08:20:11 UTC-4	4	R2409013-001	10	300.0 NS	
5	10-091224FAST	2024-09-15 08:26:27 UTC-4	5	R2409013-002	10	300.0 CNS	
6	10-091224FAST	2024-09-15 08:32:42 UTC-4	6	R2409013-003	10	300.0 NS	
7	10-091224FAST	2024-09-15 08:38:56 UTC-4	7	R2409013-004	10	300.0 CNS	
8	10-091224FAST	2024-09-15 08:45:11 UTC-4	8	R2409013-004 MSI	10	300.0 CNS	
9	10-091224FAST	2024-09-15 08:51:27 UTC-4	9	R2409013-004 MSDI	10	300.0 CNS	
10	10-091224FAST	2024-09-15 08:57:42 UTC-4	10	R2409013-006	10	300.0 NS	
11	10-091224FAST	2024-09-15 09:03:57 UTC-4	11	R2409013-007	10	300.0 CNS	
12	10-091224FAST	2024-09-15 09:10:12 UTC-4	12	R2409014-001	10	300.0 CNS	
13	10-091224FAST	2024-09-15 09:16:26 UTC-4	13	CCV	1	300.0/9056A	
14	10-091224FAST	2024-09-15 09:22:42 UTC-4	14	CCB	1	300.0/9056A	
15	10-091224FAST	2024-09-15 09:28:57 UTC-4	15	R2408912-001	10	300.0 CN	
16	10-091224FAST	2024-09-15 09:35:12 UTC-4	16	R2409005-001	10	300.0 CN	
17	10-091224FAST	2024-09-15 09:41:27 UTC-4	17	R2409005-001	20	300.0 CN	
18	10-091224FAST	2024-09-15 09:47:42 UTC-4	18	R2408385-007	40	300.0 S	
19	10-091224FAST	2024-09-15 09:53:56 UTC-4	19	R2408385-008	40	300.0 S	
20	10-091224FAST	2024-09-15 10:00:11 UTC-4	20	R2408385-009	300	300.0 S	
21	10-091224FAST	2024-09-15 10:06:26 UTC-4	21	R2408385-010	200	300.0 S	
22	10-091224FAST	2024-09-15 10:12:40 UTC-4	22	R2408385-010 MS	200	300.0 S	
23	10-091224FAST	2024-09-15 10:18:56 UTC-4	23	R2408385-010 MSD	200	300.0 S	
24	10-091224FAST	2024-09-15 10:25:11 UTC-4	24	R2408385-011	10	300.0 S	
25	10-091224FAST	2024-09-15 10:32:07 UTC-4	25	CCV	1	300.0/9056A	
26	10-091224FAST	2024-09-15 10:38:39 UTC-4	26	CCB	1	300.0/9056A	
27	10-091224FAST	2024-09-15 10:44:54 UTC-4	27	LCS 854128	1	300.0/9056A	
28	10-091224FAST	2024-09-15 10:51:11 UTC-4	28	R2408385-012	40	300.0 S	
29	10-091224FAST	2024-09-15 10:57:26 UTC-4	29	R2408385-013	100	300.0 S	
30	10-091224FAST	2024-09-15 11:03:41 UTC-4	30	R2408385-014	40	300.0 S	
31	10-091224FAST	2024-09-15 11:09:56 UTC-4	31	R2408385-015	200	300.0 S	
32	10-091224FAST	2024-09-15 11:16:11 UTC-4	32	R2408385-016	400	300.0 S	
33	10-091224FAST	2024-09-15 11:22:26 UTC-4	33	R2408385-017	40	300.0 S	
34	10-091224FAST	2024-09-15 11:28:41 UTC-4	34	R2408385-017 MS	40	300.0 S	
35	10-091224FAST	2024-09-15 11:34:57 UTC-4	35	R2408385-017 MSD	40	300.0 S	
36	10-091224FAST	2024-09-15 11:41:13 UTC-4	36	R2408385-018	200	300.0 S	
37	10-091224FAST	2024-09-15 11:47:28 UTC-4	37	CCV	1	300.0/9056A	
38	10-091224FAST	2024-09-15 11:53:44 UTC-4	38	CCB	1	300.0/9056A	
39	10-091224FAST	2024-09-15 11:59:58 UTC-4	39	R2408385-019	2000	300.0 S	
40	10-091224FAST	2024-09-15 12:06:13 UTC-4	40	R2408385-020	2000	300.0 S	
41	10-091224FAST	2024-09-15 12:12:28 UTC-4	41	R2408385-021	40	300.0 S	
42	10-091224FAST	2024-09-15 12:18:43 UTC-4	42	R2408385-023	20	300.0 S	
43	10-091224FAST	2024-09-15 12:25:00 UTC-4	43	R2408385-024	100	300.0 S	
44	10-091224FAST	2024-09-15 12:31:15 UTC-4	44	R2408385-024 MS	100	300.0 S	
45	10-091224FAST	2024-09-15 12:37:31 UTC-4	45	R2408385-024 MSD	100	300.0 S	
46	10-091224FAST	2024-09-15 12:43:51 UTC-4	46	R2408139-001	10	300.0 S	
47	10-091224FAST	2024-09-15 12:50:07 UTC-4	47	R2408139-002	10	300.0 S	
48	10-091224FAST	2024-09-15 12:56:21 UTC-4	48	R2408139-003	10	300.0 S	
49	10-091224FAST	2024-09-15 13:02:37 UTC-4	49	CCV	1	300.0/9056A	
50	10-091224FAST	2024-09-15 13:08:53 UTC-4	50	CCB	1	300.0/9056A	
51	10-091224FAST	2024-09-15 13:15:07 UTC-4	51	LCS 854129	1	300.0/9056A	
52	10-091224FAST	2024-09-15 13:21:23 UTC-4	52	R2408139-004	10	300.0 S	
53	10-091224FAST	2024-09-15 13:27:39 UTC-4	53	R2408139-005	10	300.0 S	
54	10-091224FAST	2024-09-15 13:33:54 UTC-4	54	R2408139-007 DNR	10	300.0 S	
55	10-091224FAST	2024-09-15 13:40:09 UTC-4	55	R2408139-008	10	300.0 S	
56	10-091224FAST	2024-09-15 13:46:24 UTC-4	56	R2408139-008 MSI	10	300.0 S	
57	10-091224FAST	2024-09-15 13:52:40 UTC-4	57	R2408139-008 MSDI	10	300.0 S	
58	10-091224FAST	2024-09-15 13:58:55 UTC-4	58	R2408139-010	10	300.0 S	
59	10-091224FAST	2024-09-15 14:05:11 UTC-4	59	R2408139-012	10	300.0 S	
60	10-091224FAST	2024-09-15 14:11:27 UTC-4	60	R2408139-013	10	300.0 S	
61	10-091224FAST	2024-09-15 14:17:41 UTC-4	61	CCV	1	300.0/9056A	
62	10-091224FAST	2024-09-15 14:23:57 UTC-4	62	CCB	1	300.0/9056A	
63	10-091224FAST	2024-09-15 14:30:11 UTC-4	63	R2408139-006	100	300.0 S	FILTERED- OILY/ WAXY MA...

Determination overview

	Method name	Determination start	Position	Ident	Dilution	Info 1	Info 2
64	10-091224FAST	2024-09-15 14:36:26 UTC-4	64	R2408140-008	10	300.0 S	
65	10-091224FAST	2024-09-15 14:42:41 UTC-4	65	R2408140-010	10	300.0 S	
66	10-091224FAST	2024-09-15 14:48:56 UTC-4	66	R2408140-011 DNR	10	300.0 S	
67	10-091224FAST	2024-09-15 14:55:12 UTC-4	67	R2408635-001	10	300.0 C	
68	10-091224FAST	2024-09-15 15:01:27 UTC-4	68	R2408212-010	50	300.0 C	
69	10-091224FAST	2024-09-15 15:07:42 UTC-4	69	R2408212-010 MSI	50	300.0 C	
70	10-091224FAST	2024-09-15 15:13:57 UTC-4	70	R2408212-010 MSD!	50	300.0 C	
71	10-091224FAST	2024-09-15 15:20:13 UTC-4	71	CCV	1	300.0/9056A	
72	10-091224FAST	2024-09-15 15:26:29 UTC-4	72	CCB	1	300.0/9056A	

Sample Dilutions

Final Volume: 8-10mL - IC#3,10

Analyst: KAW|KW
Instrument: IC#10

Date 9-15-24
Analysis 300.0|9056A

Common Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor
1/2	DI	4.5	4.5	1/2												
1/3	DI	3	6	1/3												
1/4	DI	2	6	1/4												
1/5	DI	2	8	1/5												
1/10	DI	1	9	1/10												
1/20	DI	3	3	1/2	1	9	1/20									
1/30	DI	3	6	1/3	1	9	1/30									
1/40	DI	1	3	1/4	1	9	1/40									
1/50	DI	1	4	1/5	1	9	1/50									
1/100	DI	1	9	1/10	1	9	1/100									
1/200	DI	3	3	1/2	1	9	1/20	1	9	1/200						
1/300	DI	3	6	1/3	1	9	1/30	1	9	1/300						
1/400	DI	1	3	1/4	1	9	1/40	1	9	1/400						
1/500	DI	1	4	1/5	1	9	1/50	1	9	1/500						
1/1000	DI	1	9	1/10	1	9	1/100	1	9	1/1000						
1/2000	DI	3	3	1/2	1	9	1/20	1	9	1/200	1	9	1/2000			
1/3000	DI	3	6	1/3	1	9	1/30	1	9	1/300	1	9	1/3000			
1/4000	DI	1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000			
1/10000	DI	1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000			
1/20000	DI	1	1	1/2	1	9	1/20	1	9	1/200	1	9	1/2000	1	9	1/20000
1/40000	DI	1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000	1	9	1/40000
1/100000	DI	1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000	1	9	1/100000

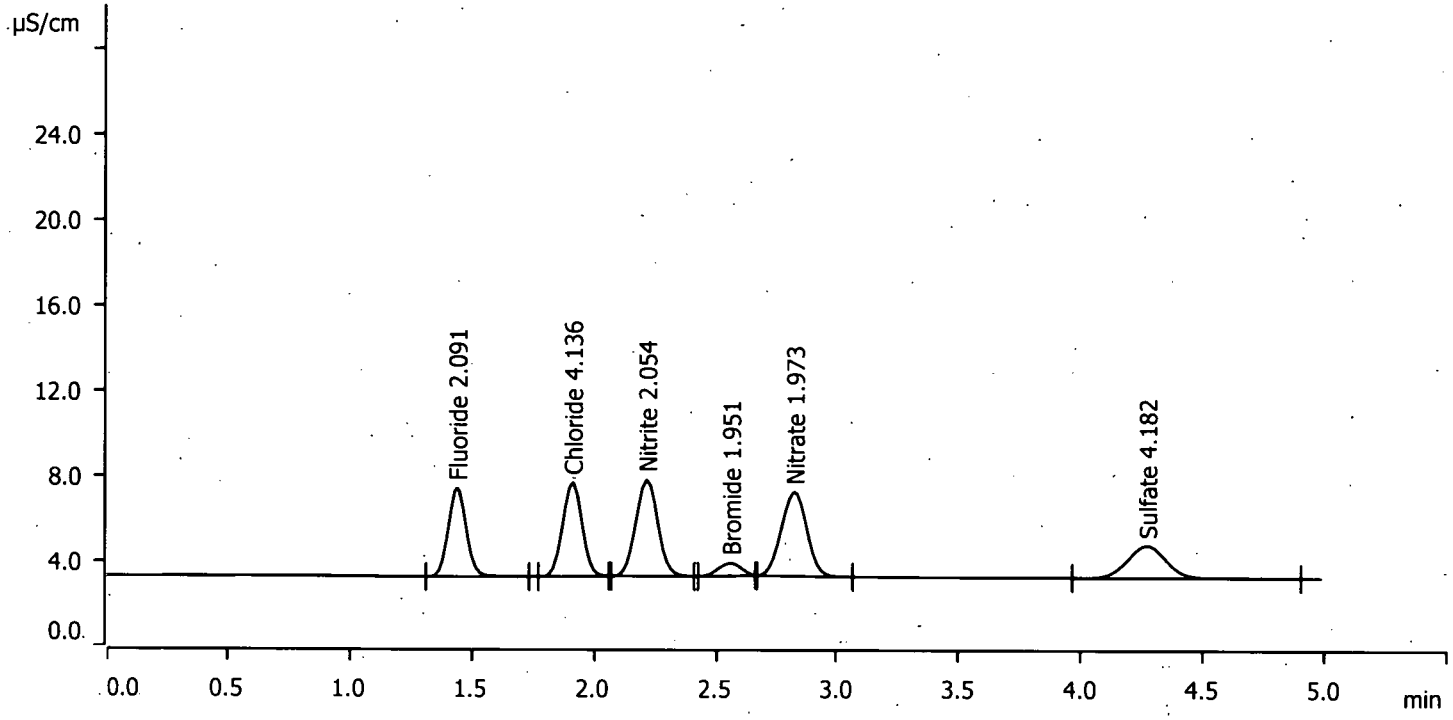
Special Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-15 08:01:23 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92291
Sample Position	1
Comment 1	300.0/9056A
Comment 2	

Anions



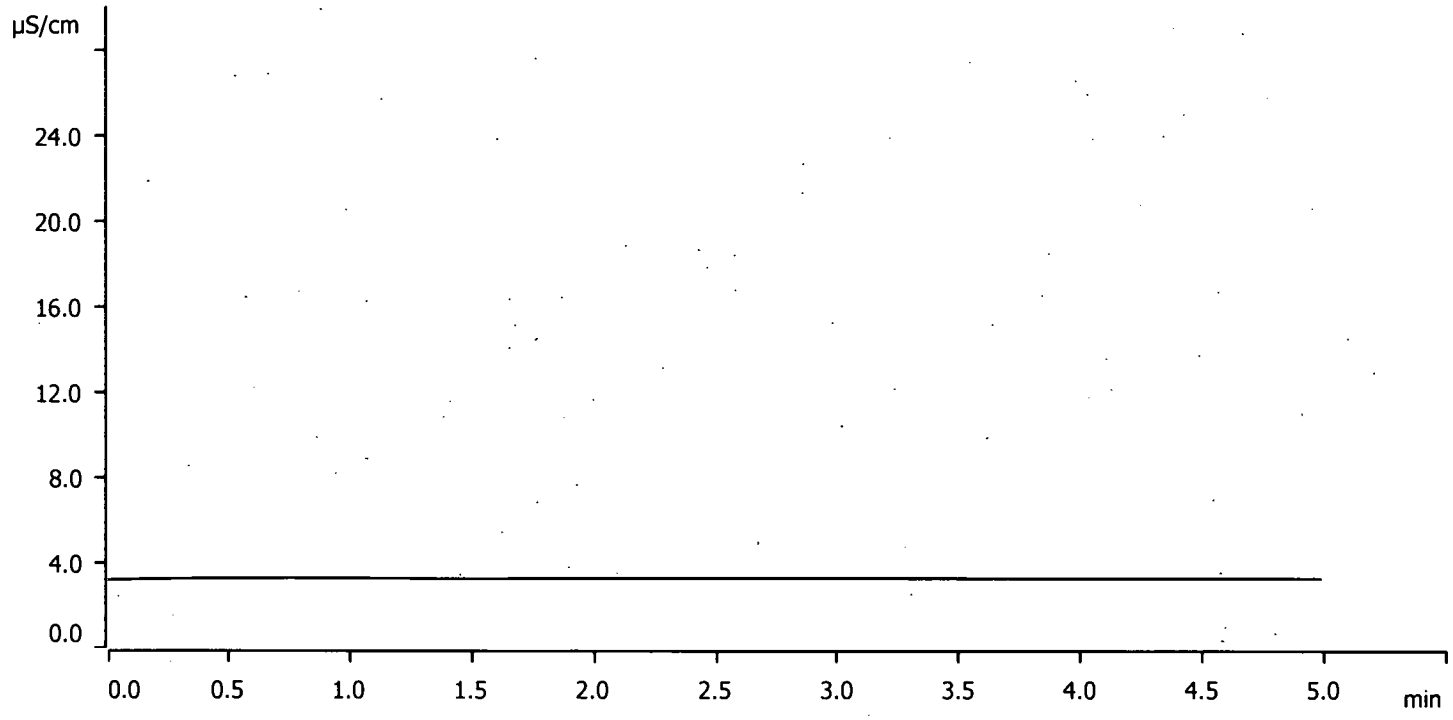
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.352	2.091	Fluoride	BB
2	1.92	0.401	4.136	Chloride	BB
3	2.22	0.474	2.054	Nitrite	BB
4	2.56	0.065	1.951	Bromide	BB
5	2.82	0.479	1.973	Nitrate	BB
6	4.27	0.281	4.182	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-15 08:07:41 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92292
Sample Position	2
Comment 1	300.0/9056A
Comment 2	

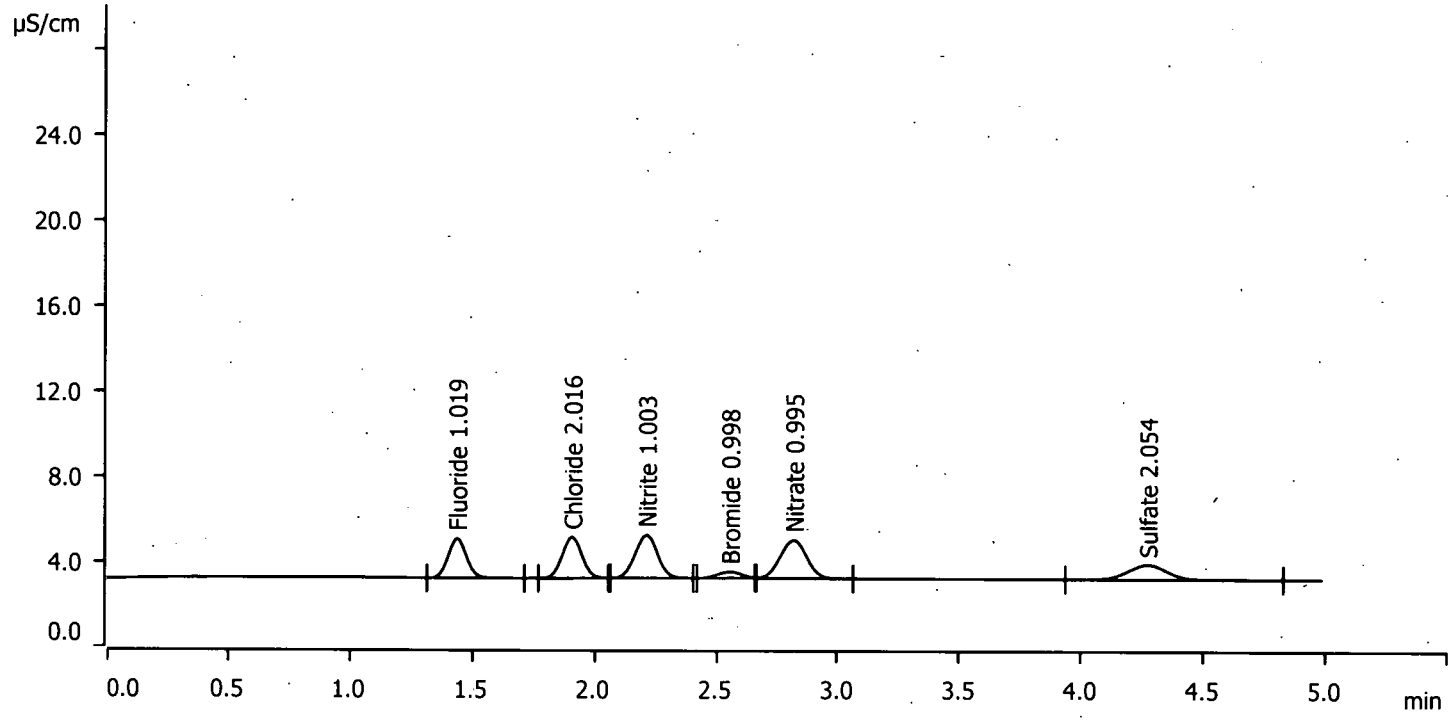
Anions



Sample data

Ident	LCS
Sample type	Check standard 2
Determination start	2024-09-15 08:13:55 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92293
Sample Position	3
Comment 1	300.0/9056A
Comment 2	

Anions



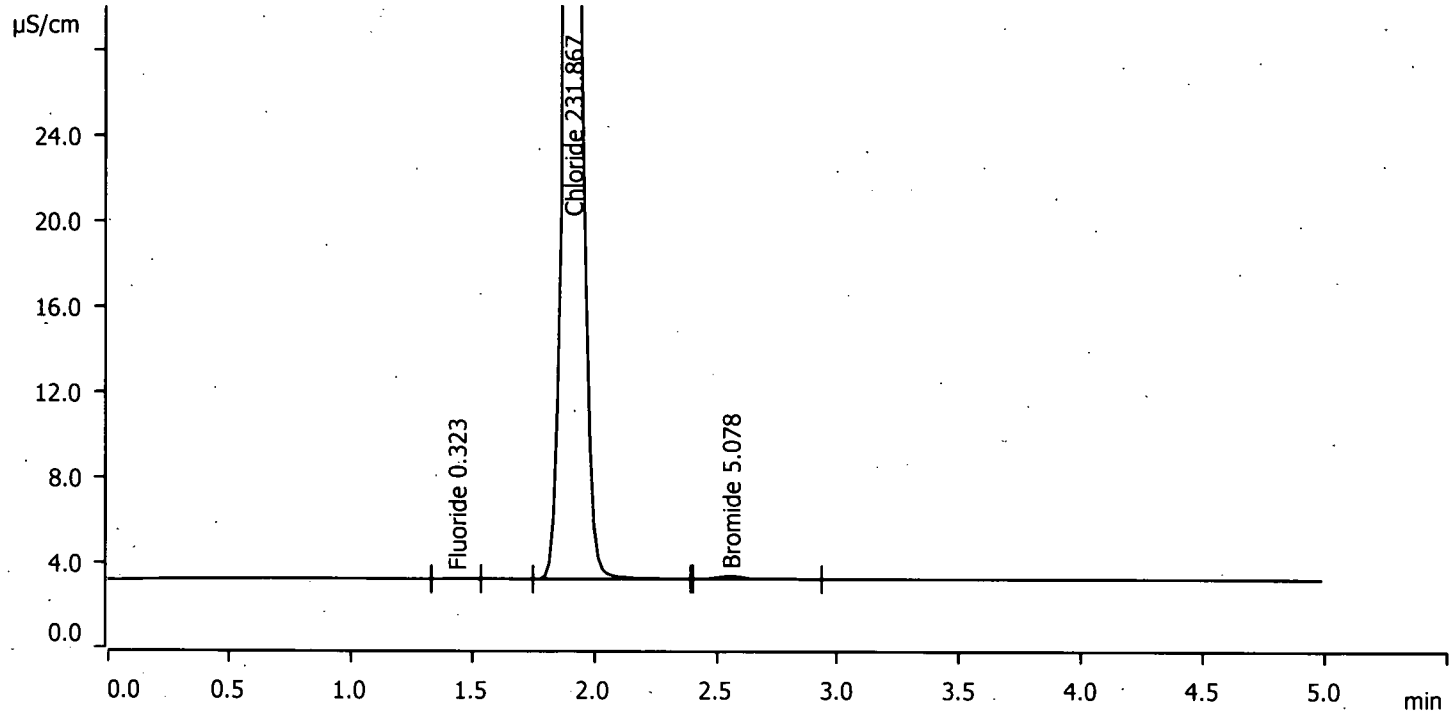
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.160	1.019	Fluoride	BB
2	1.91	0.181	2.016	Chloride	BB
3	2.22	0.217	1.003	Nitrite	BB
4	2.56	0.032	0.998	Bromide	BB
5	2.82	0.224	0.995	Nitrate	BB
6	4.27	0.132	2.054	Sulfate	BB

Sample data

Ident	R2409013-001
Sample type	Sample
Determination start	2024-09-15 08:20:11 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92294
Sample Position	4
Comment 1	300.0 NS
Comment 2	

Anions



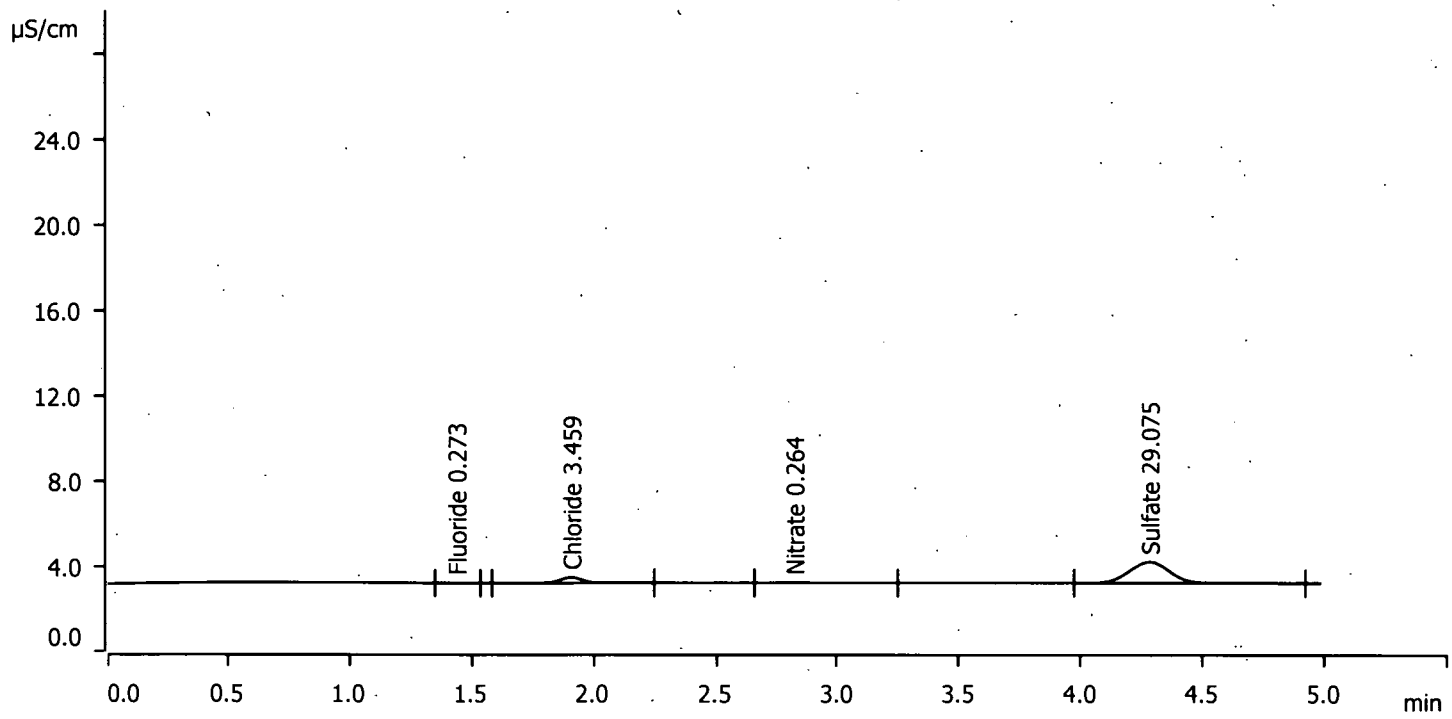
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.002	0.323	Fluoride	BB
2	1.92	3.617	231.867	Chloride	BB
3	2.56	0.016	5.078	Bromide	BBI

Sample data

Ident	R2409013-002
Sample type	Sample
Determination start	2024-09-15 08:26:27 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92295
Sample Position	5
Comment 1	300.0 CNS
Comment 2	

Anions



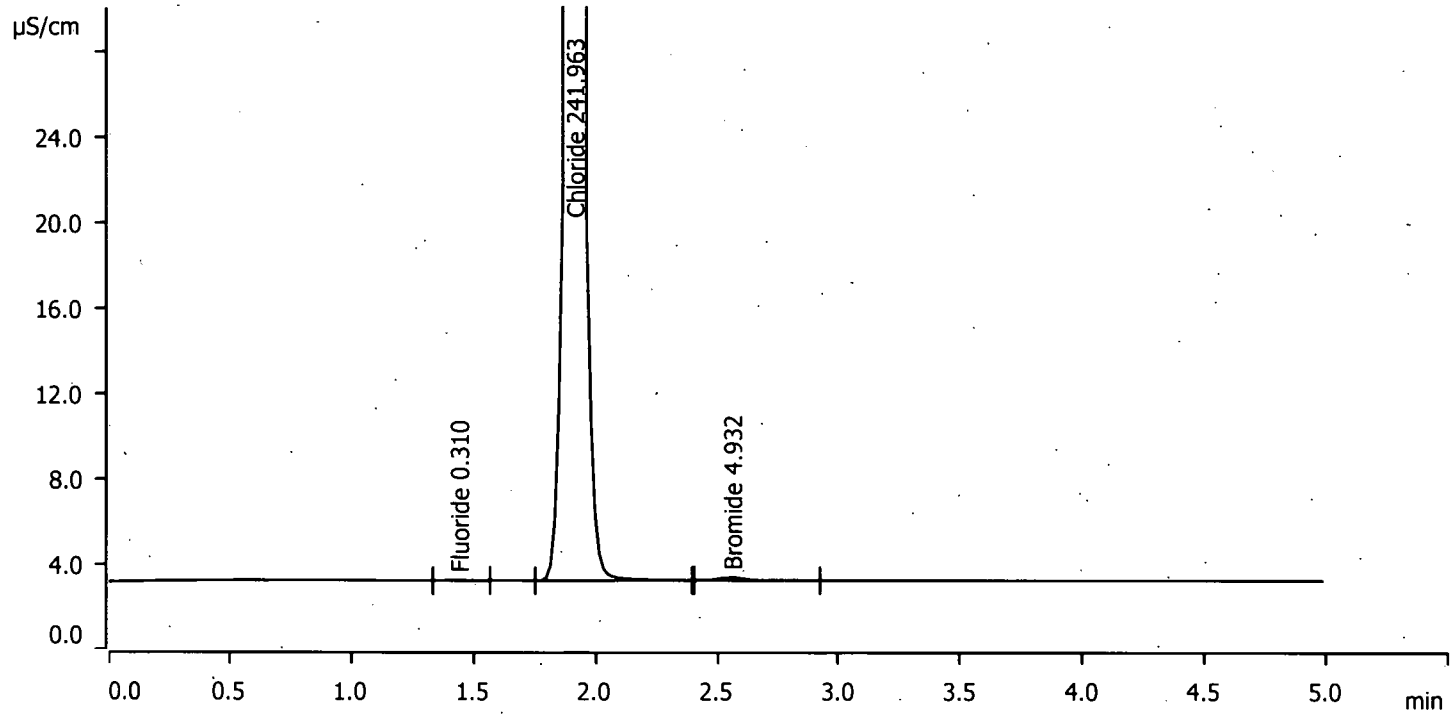
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.001	0.273	Fluoride	BB
2	1.91	0.028	3.459	Chloride	BB
3	2.82	0.002	0.264	Nitrate	BBI
4	4.28	0.190	29.075	Sulfate	BB

Sample data

Ident	R2409013-003
Sample type	Sample
Determination start	2024-09-15 08:32:42 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92296
Sample Position	6
Comment 1	300.0 NS
Comment 2	

Anions



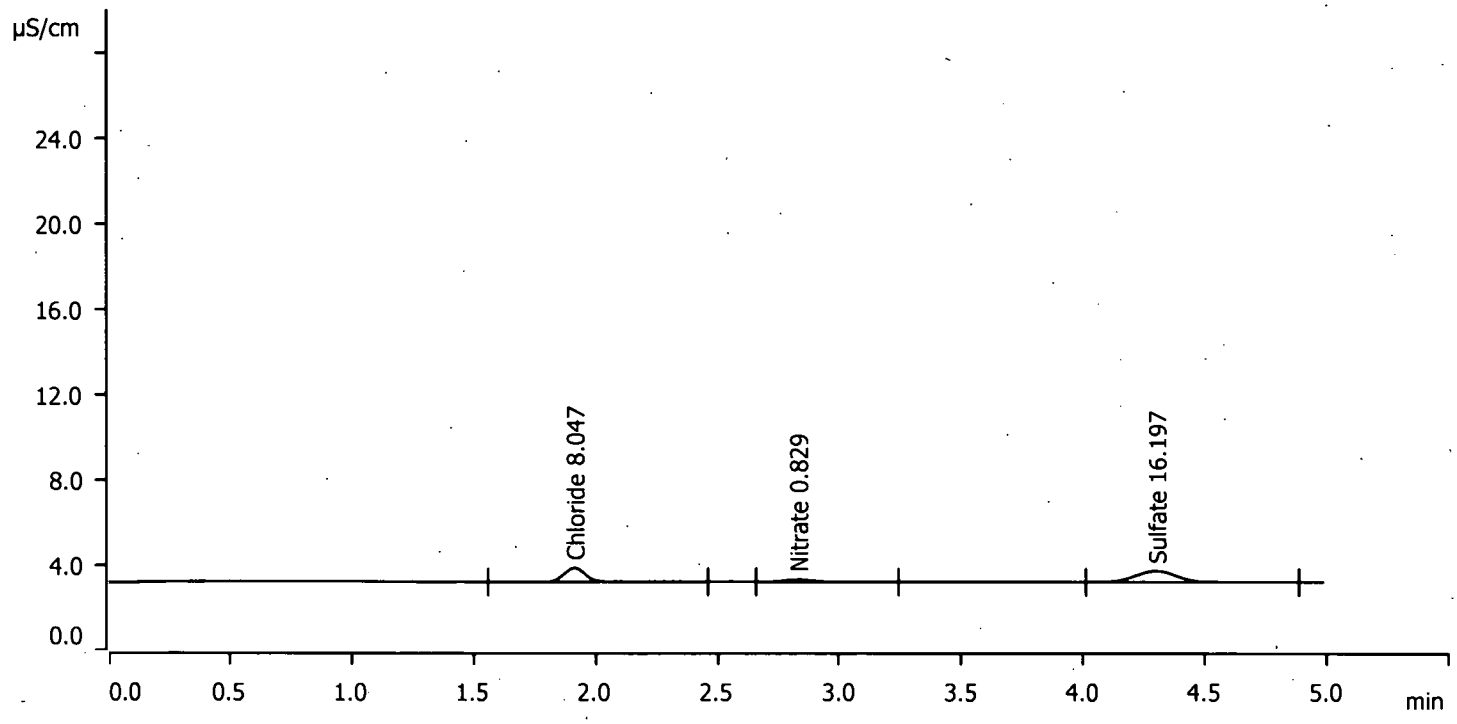
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.002	0.310	Fluoride	BB
2	1.92	3.849	241.963	Chloride	BB
3	2.56	0.016	4.932	Bromide	BBI

Sample data

Ident	R2409013-004
Sample type	Sample
Determination start	2024-09-15 08:38:56 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92297
Sample Position	7
Comment 1	300.0 CNS
Comment 2	

Anions



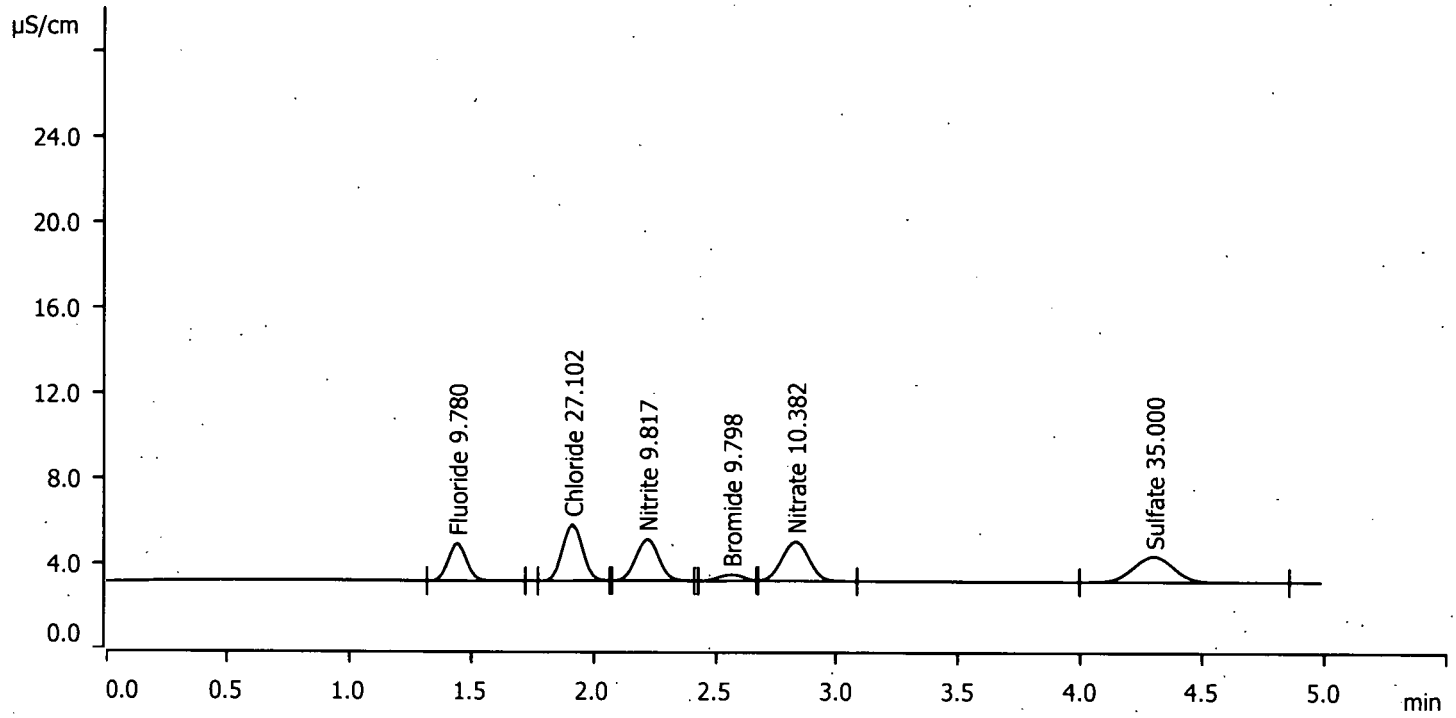
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.068	8.047	Chloride	BB
2	2.83	0.014	0.829	Nitrate	BB
3	4.30	0.103	16.197	Sulfate	BB

Sample data

Ident	R2409013-004 MS!
Sample type	Sample
Determination start	2024-09-15 08:45:11 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92298
Sample Position	8
Comment 1	300.0 CNS
Comment 2	

Anions



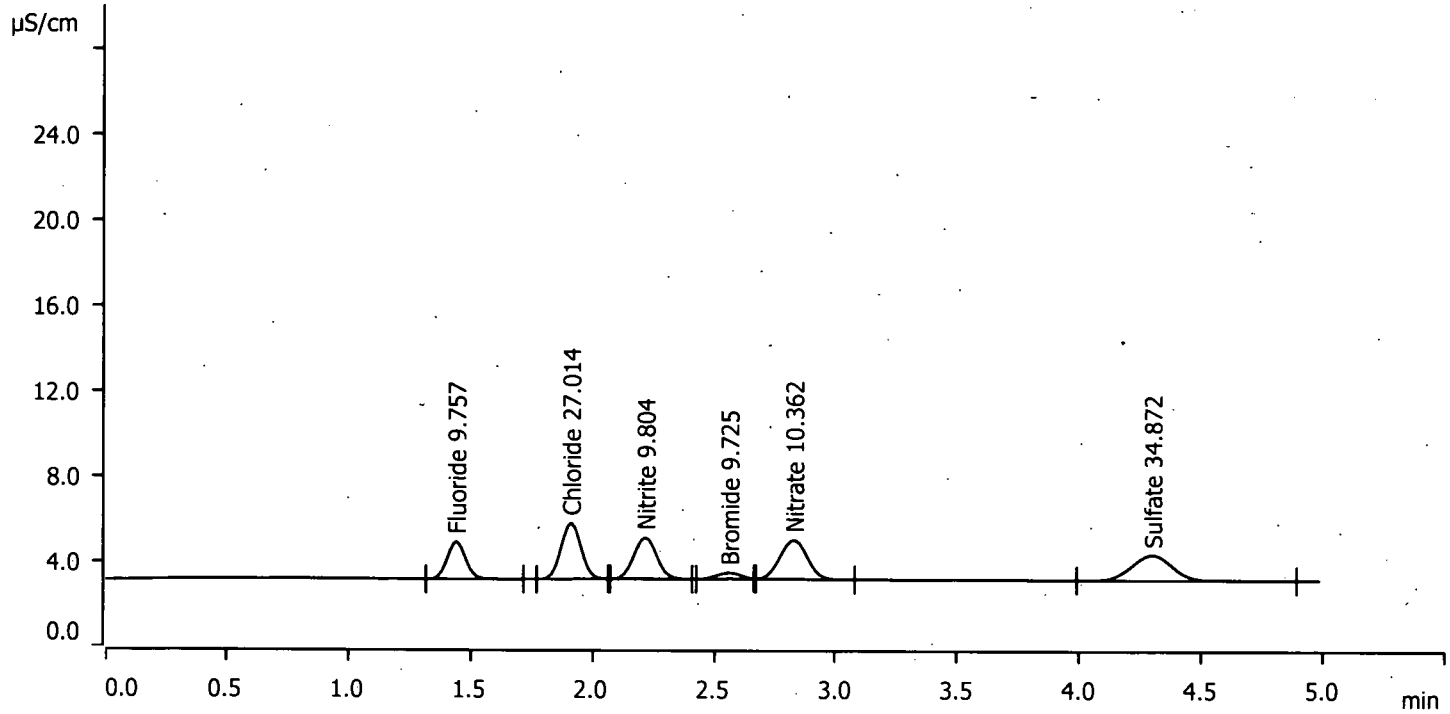
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.153	9.780	Fluoride	BB
2	1.92	0.250	27.102	Chloride	BB
3	2.22	0.212	9.817	Nitrite	BB
4	2.57	0.031	9.798	Bromide	BB
5	2.83	0.234	10.382	Nitrate	BB
6	4.30	0.232	35.000	Sulfate	BB

Sample data

Ident	R2409013-004 MSD!
Sample type	Sample
Determination start	2024-09-15 08:51:27 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92299
Sample Position	9
Comment 1	300.0 CNS
Comment 2	

Anions



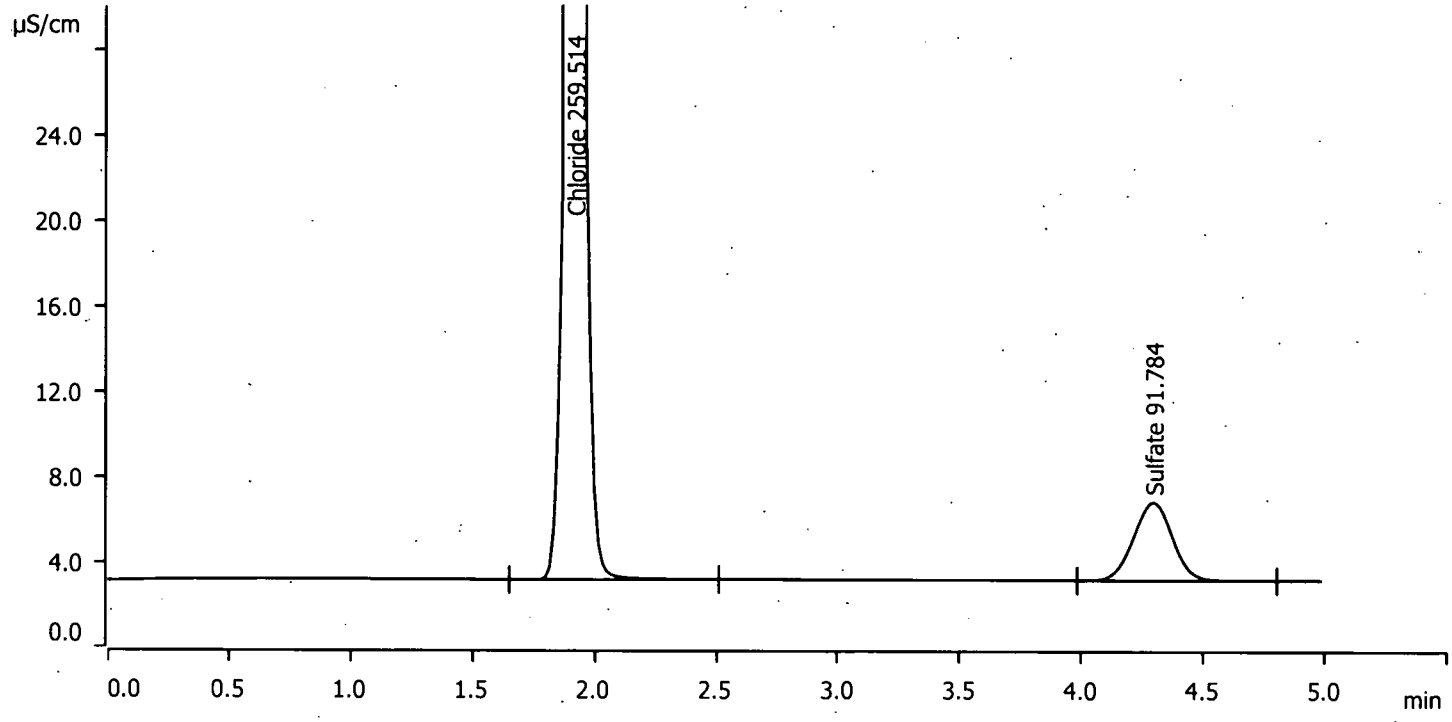
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.153	9.757	Fluoride	BB
2	1.92	0.249	27.014	Chloride	BB
3	2.22	0.211	9.804	Nitrite	BB
4	2.57	0.031	9.725	Bromide	BB
5	2.83	0.234	10.362	Nitrate	BB
6	4.30	0.231	34.872	Sulfate	BB

Sample data

Ident	R2409013-006
Sample type	Sample
Determination start	2024-09-15 08:57:42 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92300
Sample Position	10
Comment 1	300.0 NS
Comment 2	

Anions



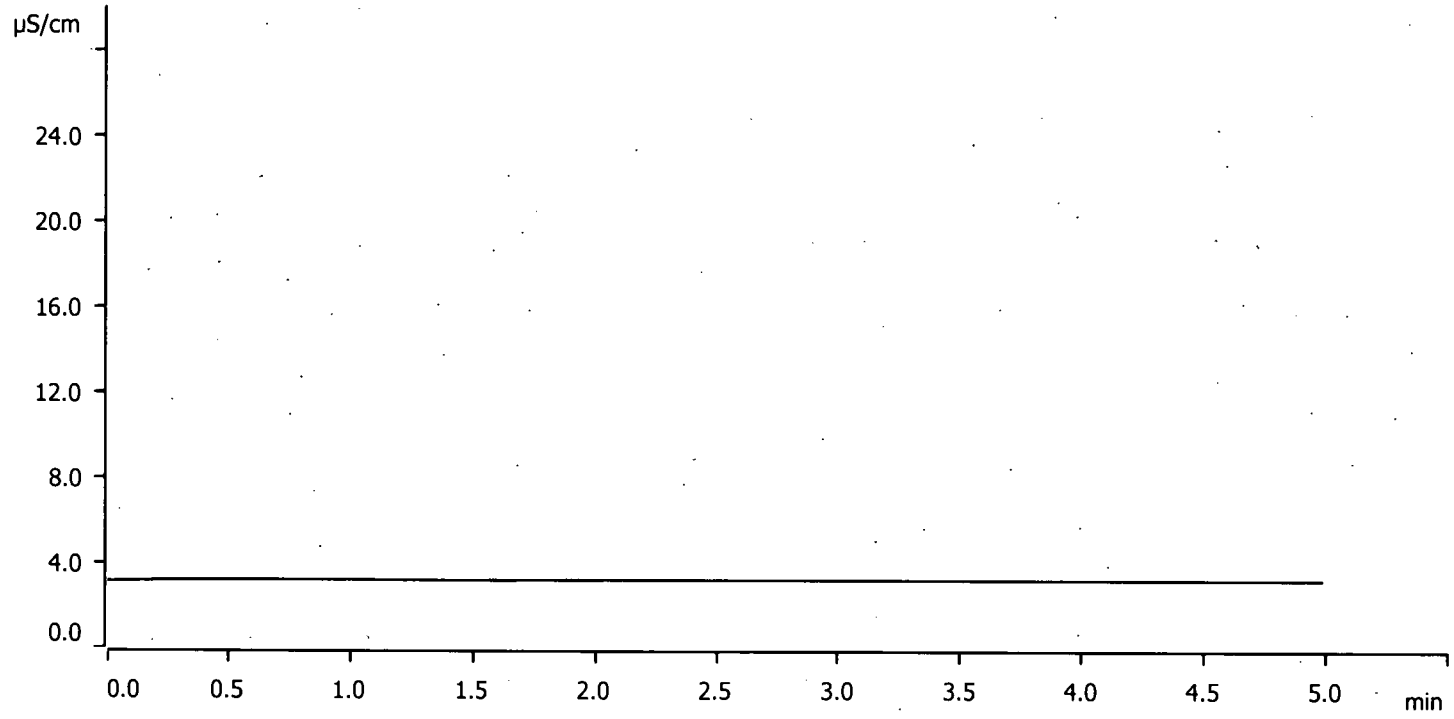
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	4.269	259.514	Chloride	BB
2	4.30	0.679	91.784	Sulfate	BB

Sample data

Ident	R2409013-007
Sample type	Sample
Determination start	2024-09-15 09:03:57 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92301
Sample Position	11
Comment 1	300.0 CNS
Comment 2	

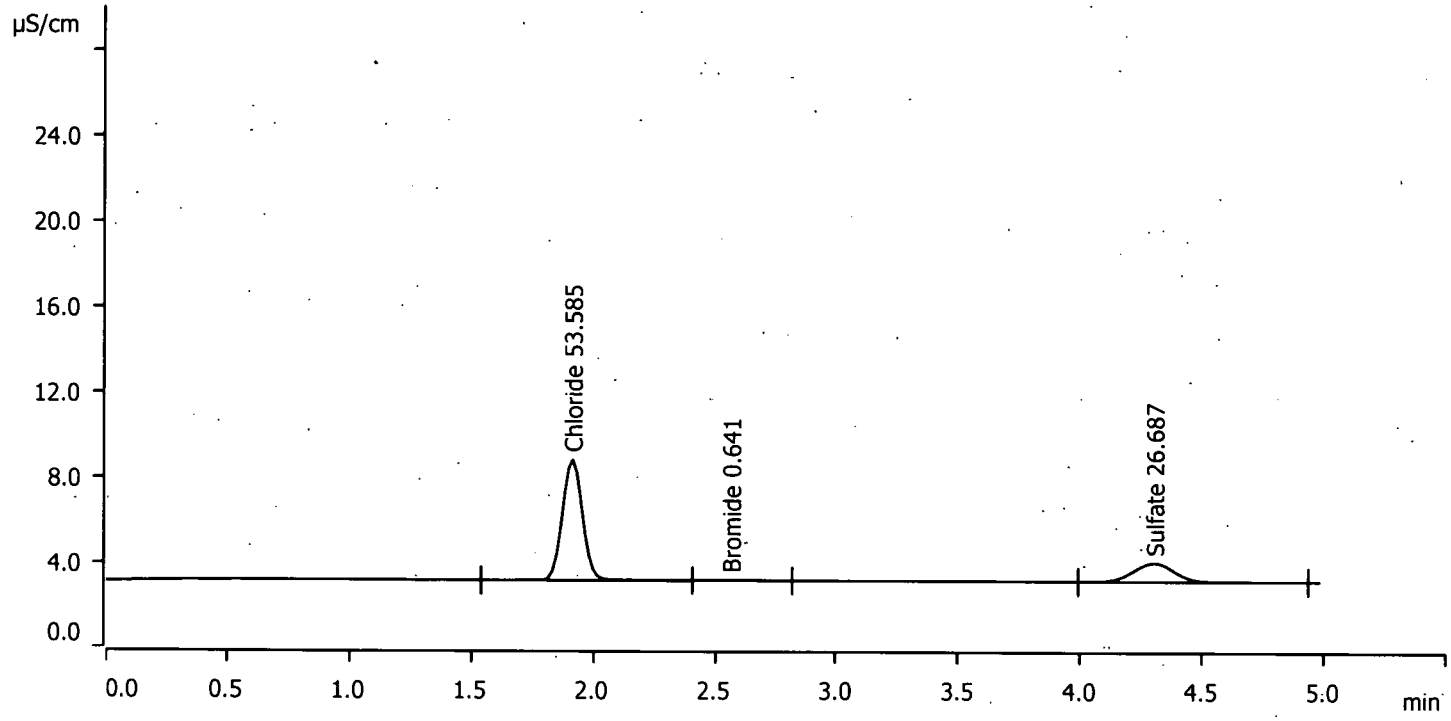
Anions



Sample data

Ident	R2409014-001
Sample type	Sample
Determination start	2024-09-15 09:10:12 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92302
Sample Position	12
Comment 1	300.0 CNS
Comment 2	

Anions



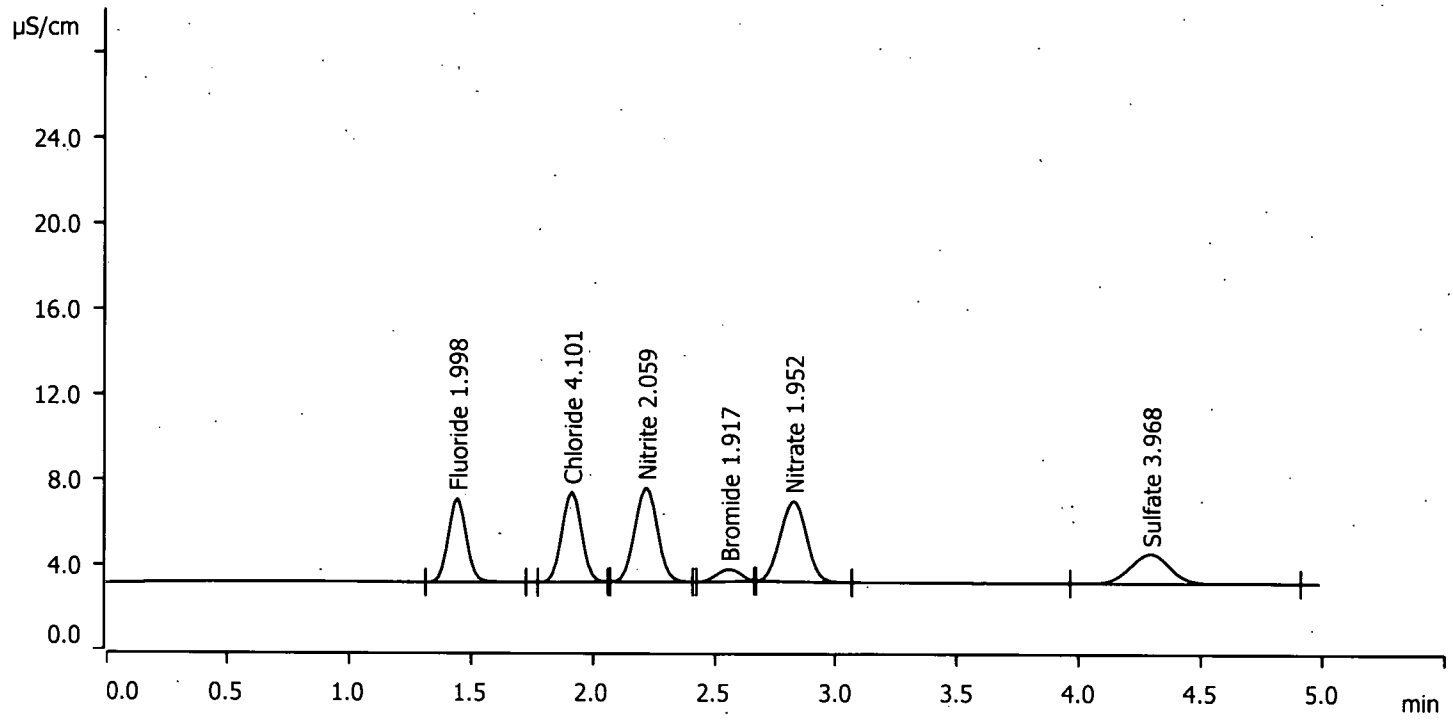
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.540	53.585	Chloride	BB
2	2.57	0.002	0.641	Bromide	BB
3	4.30	0.174	26.687	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-15 09:16:26 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92303
Sample Position	13
Comment 1	300.0/9056A
Comment 2	

Anions



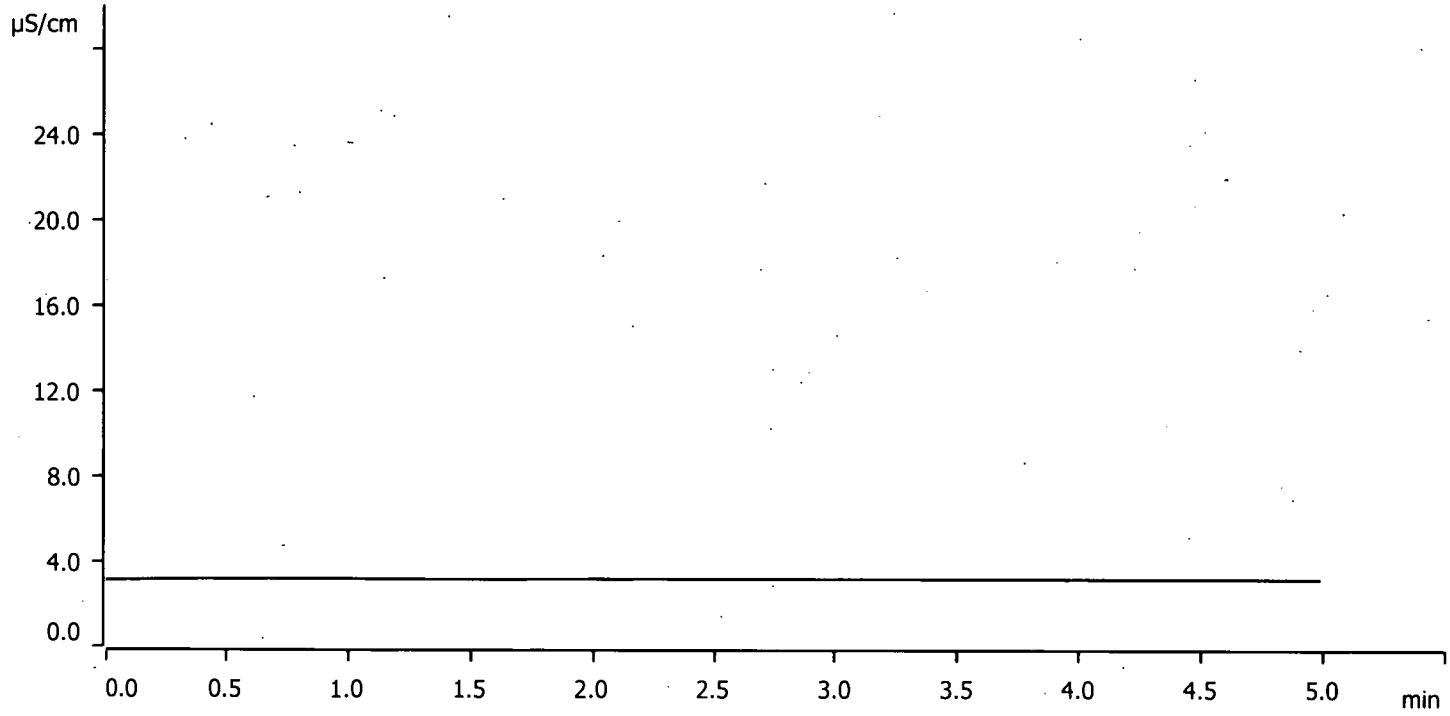
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.335	1.998	Fluoride	BB
2	1.92	0.397	4.101	Chloride	BB
3	2.22	0.476	2.059	Nitrite	BB
4	2.56	0.063	1.917	Bromide	BB
5	2.83	0.473	1.952	Nitrate	BB
6	4.29	0.265	3.968	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-15 09:22:42 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92304
Sample Position	14
Comment 1	300.0/9056A
Comment 2	

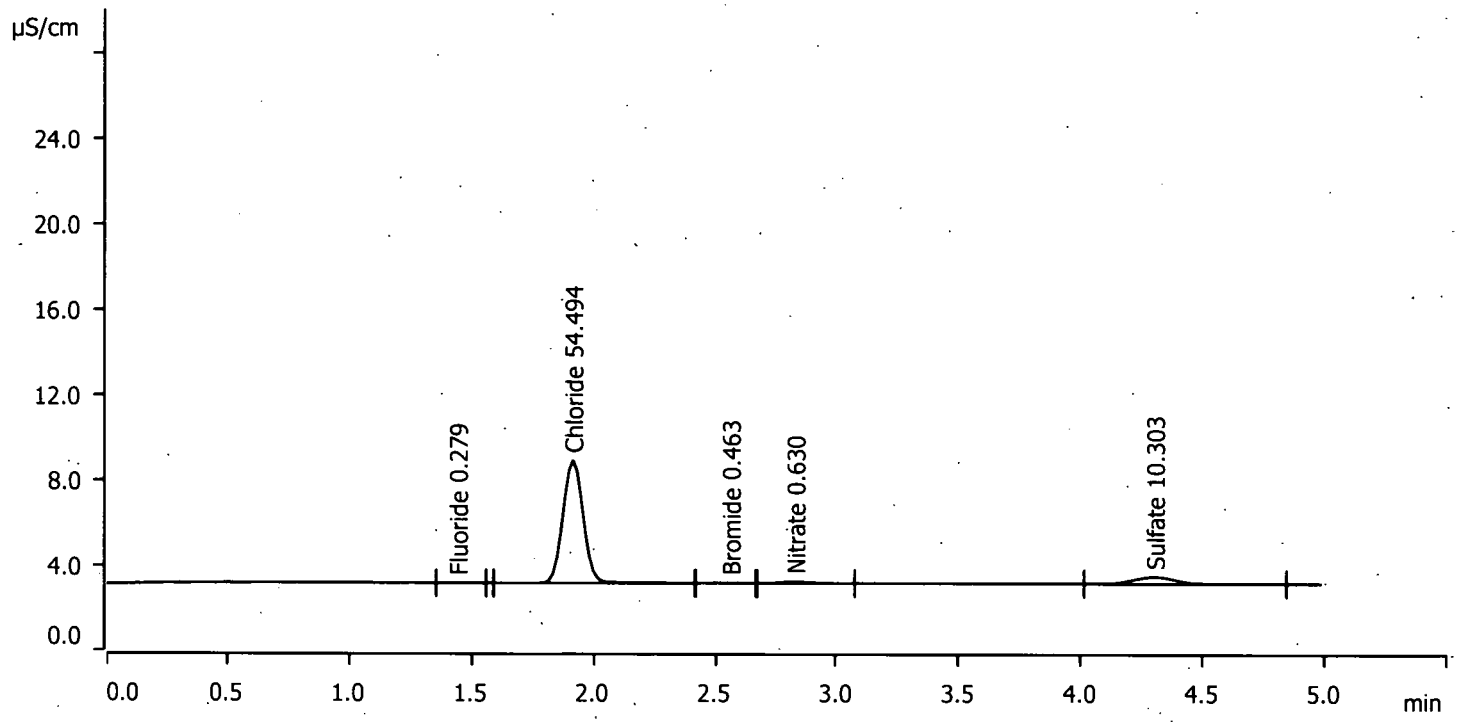
Anions



Sample data

Ident	R2408912-001
Sample type	Sample
Determination start	2024-09-15 09:28:57 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92305
Sample Position	15
Comment 1	300.0 CN
Comment 2	

Anions



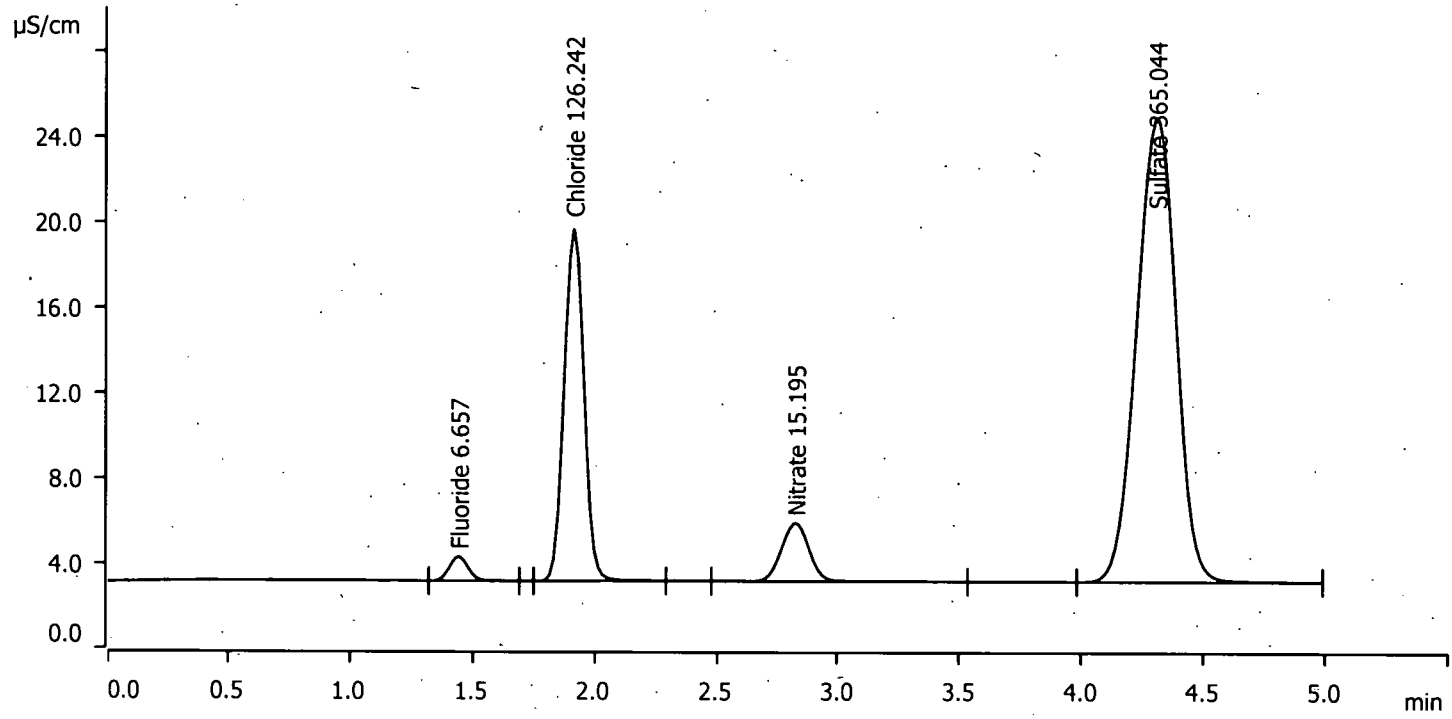
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.001	0.279	Fluoride	BB
2	1.92	0.551	54.494	Chloride	BB
3	2.57	0.001	0.463	Bromide	BB
4	2.83	0.009	0.630	Nitrate	BB
5	4.30	0.065	10.303	Sulfate	BB

Sample data

Ident	R2409005-001
Sample type	Sample
Determination start	2024-09-15 09:35:12 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92306
Sample Position	16
Comment 1	300.0 CN
Comment 2	

Anions



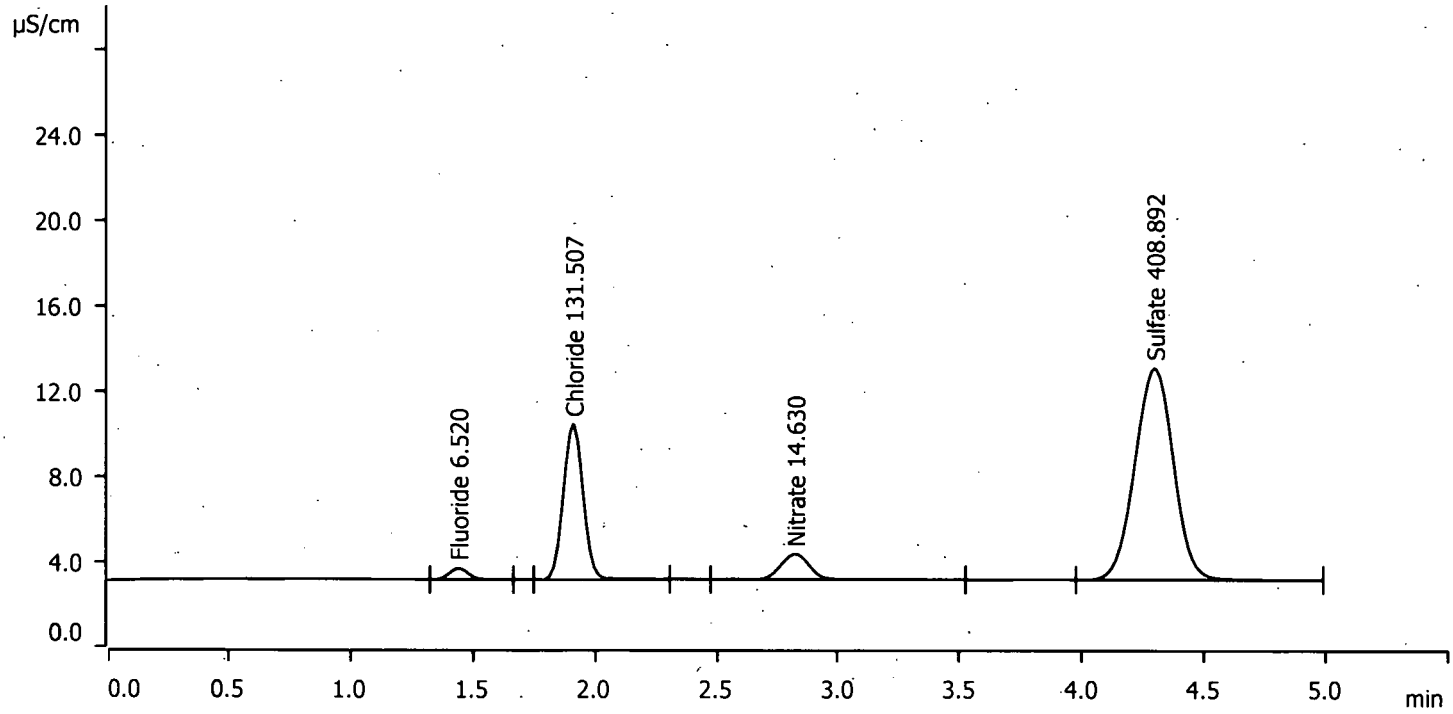
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.101	6.657	Fluoride	BB
2	1.92	1.558	126.242	Chloride	BB
3	2.83	0.357	15.195	Nitrate	BB
4	4.31	4.069	365.044	Sulfate	BB

Sample data

Ident	R2409005-001
Sample type	Sample
Determination start	2024-09-15 09:41:27 UTC-4
Method	10-091224FAST
Dilution	20
Counter	92307
Sample Position	17
Comment 1	300.0 CN
Comment 2	

Anions



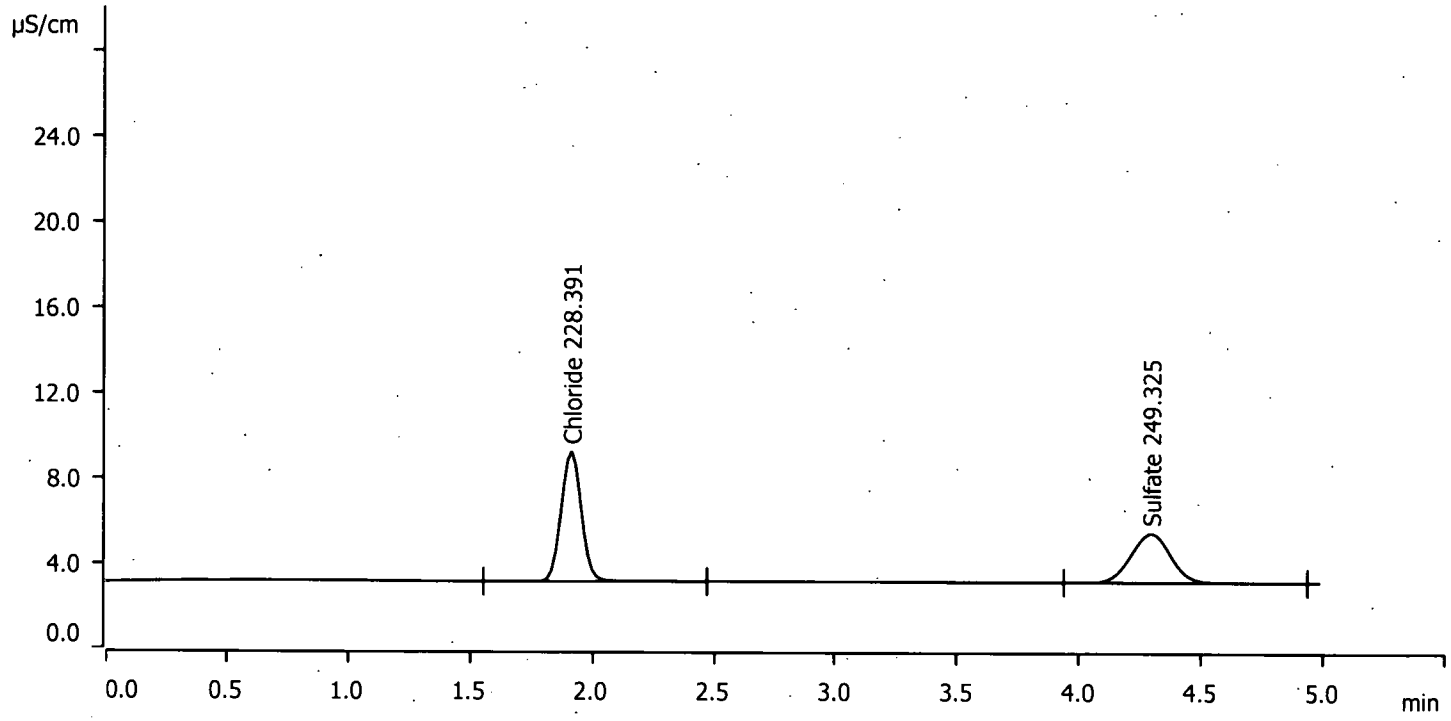
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.047	6.520	Fluoride	BB
2	1.92	0.688	131.507	Chloride	BB
3	2.82	0.160	14.630	Nitrate	BB
4	4.30	1.829	408.892	Sulfate	BB

Sample data

Ident	R2408385-007
Sample type	Sample
Determination start	2024-09-15 09:47:42 UTC-4
Method	10-091224FAST
Dilution	40
Counter	92308
Sample Position	18
Comment 1	300.0 S
Comment 2	

Anions



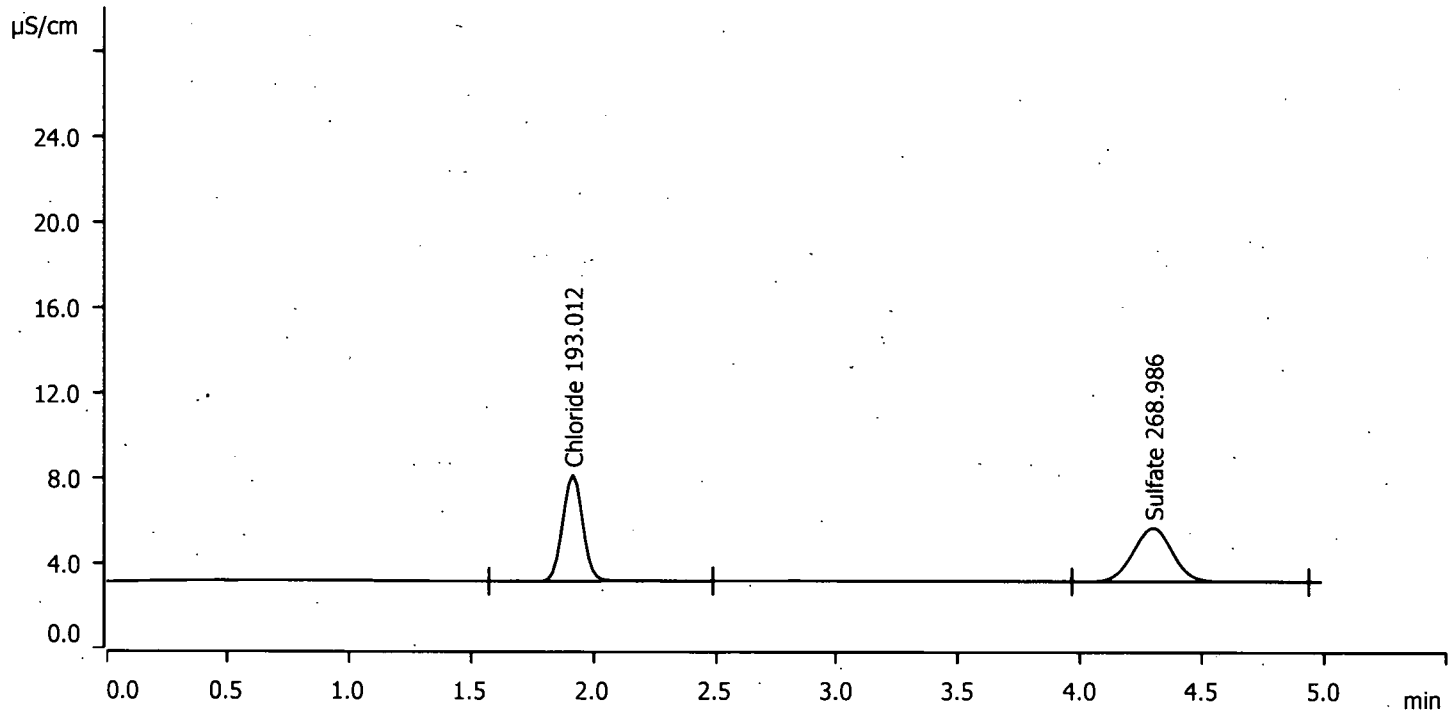
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.582	228.391	Chloride	BB
2	4.29	0.436	249.325	Sulfate	BB

Sample data

Ident	R2408385-008
Sample type	Sample
Determination start	2024-09-15 09:53:56 UTC-4
Method	10-091224FAST
Dilution	40
Counter	92309
Sample Position	19
Comment 1	300.0 S
Comment 2	

Anions



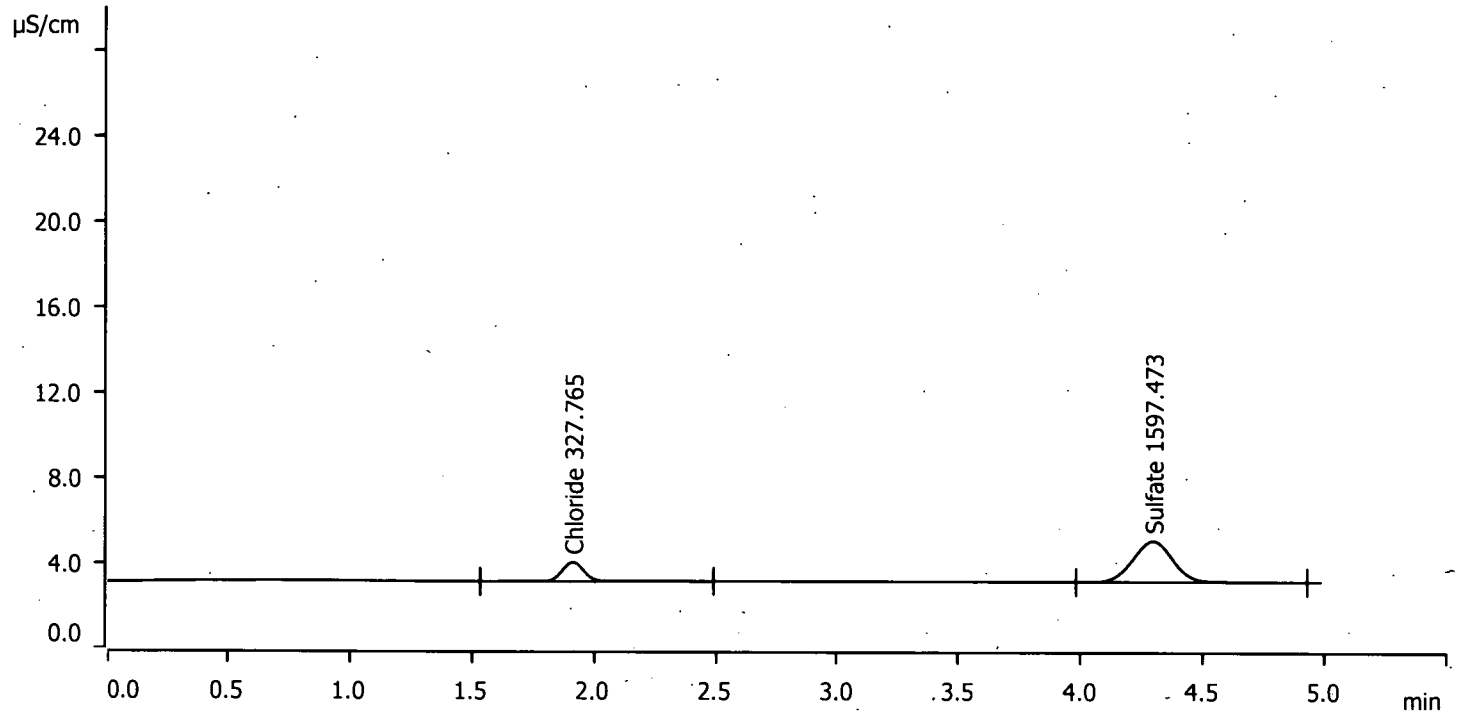
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.479	193.012	Chloride	BB
2	4.28	0.475	268.986	Sulfate	BB

Sample data

Ident	R2408385-009
Sample type	Sample
Determination start	2024-09-15 10:00:11 UTC-4
Method	10-091224FAST
Dilution	300
Counter	92310
Sample Position	20
Comment 1	300.0 S
Comment 2	

Anions



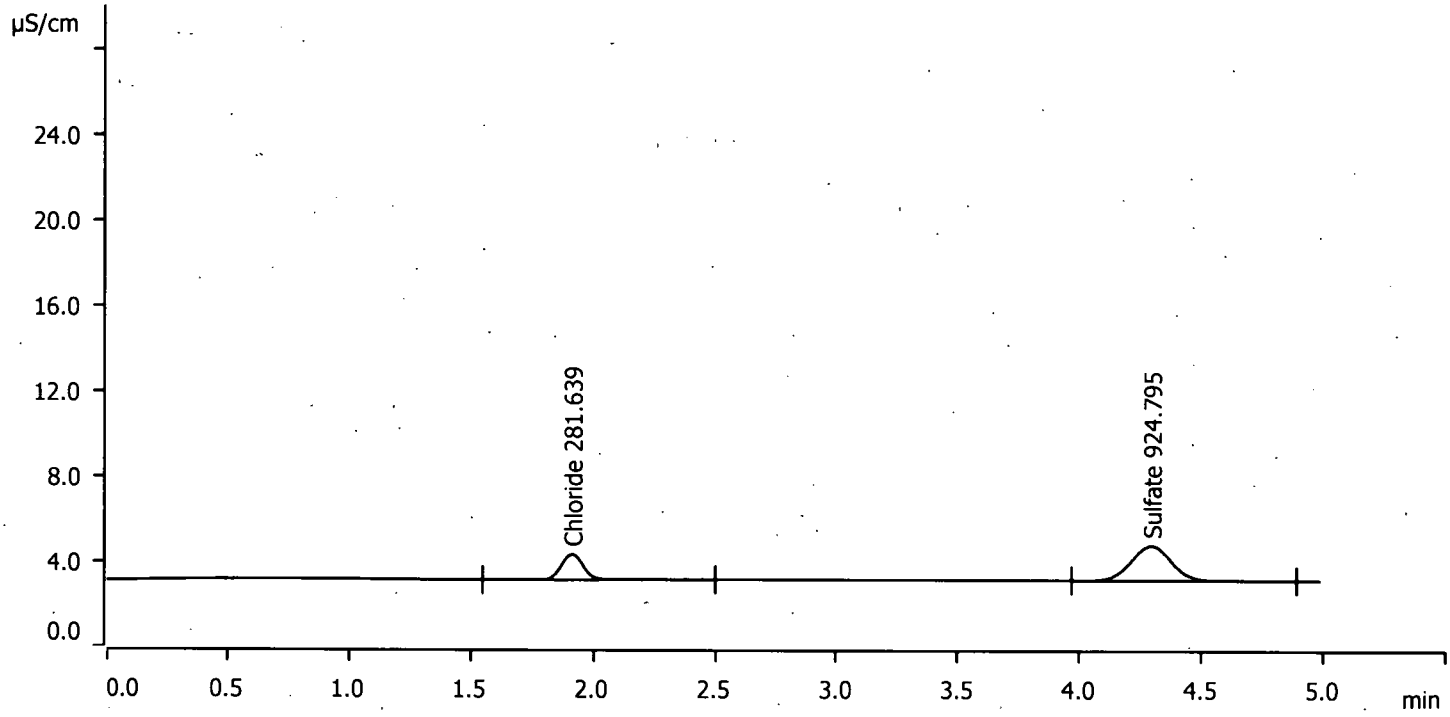
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.094	327.765	Chloride	BB
2	4.30	0.366	1597.473	Sulfate	BB

Sample data

Ident	R2408385-010
Sample type	Sample
Determination start	2024-09-15 10:06:26 UTC-4
Method	10-091224FAST
Dilution	200
Counter	92311
Sample Position	21
Comment 1	300.0 S
Comment 2	

Anions



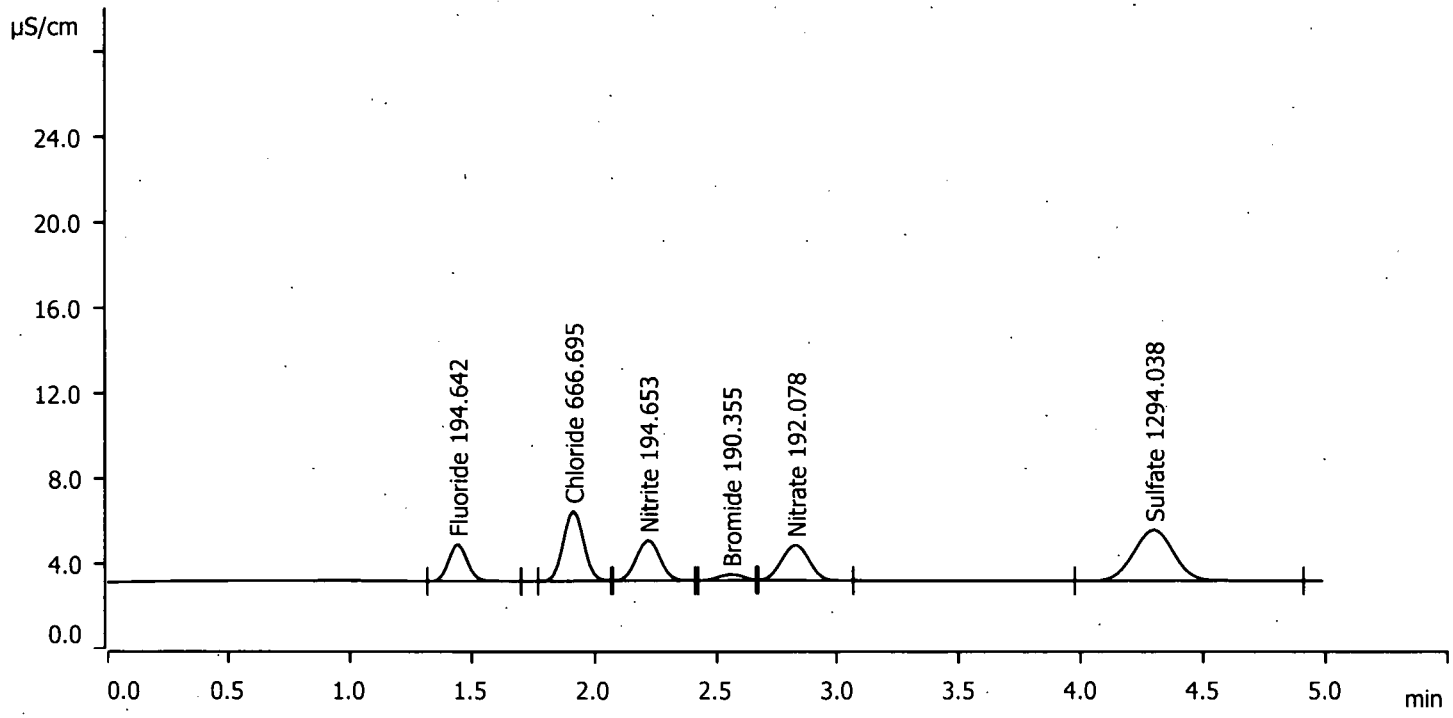
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.124	281.639	Chloride	BB
2	4.30	0.313	924.795	Sulfate	BB

Sample data

Ident	R2408385-010 MS
Sample type	Sample
Determination start	2024-09-15 10:12:40 UTC-4
Method	10-091224FAST
Dilution	200
Counter	92312
Sample Position	22
Comment 1	300.0 S
Comment 2	

Anions



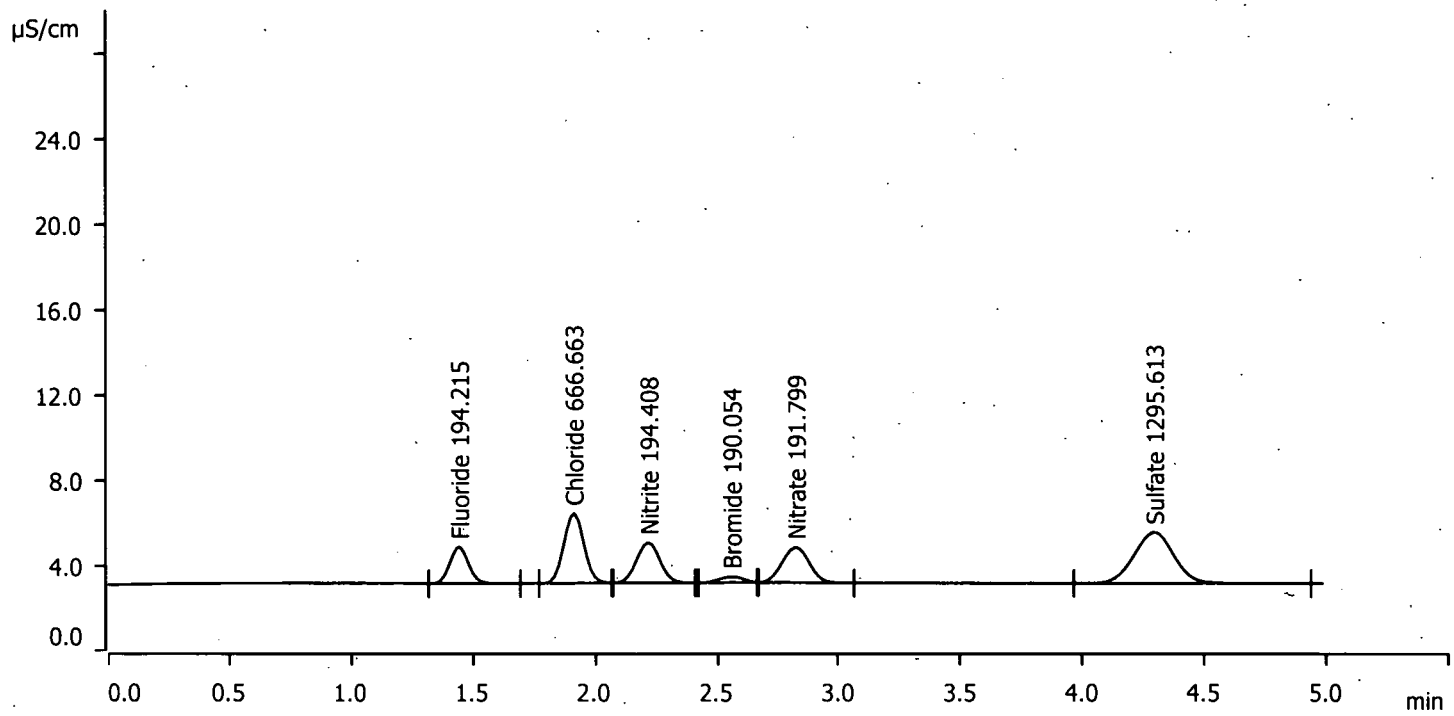
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.152	194.642	Fluoride	BB
2	1.92	0.315	666.695	Chloride	BB
3	2.22	0.210	194.653	Nitrite	BB
4	2.57	0.031	190.355	Bromide	BB
5	2.83	0.215	192.078	Nitrate	BB
6	4.30	0.455	1294.038	Sulfate	BB

Sample data

Ident	R2408385-010 MSD
Sample type	Sample
Determination start	2024-09-15 10:18:56 UTC-4
Method	10-091224FAST
Dilution	200
Counter	92313
Sample Position	23
Comment 1	300.0 S
Comment 2	

Anions



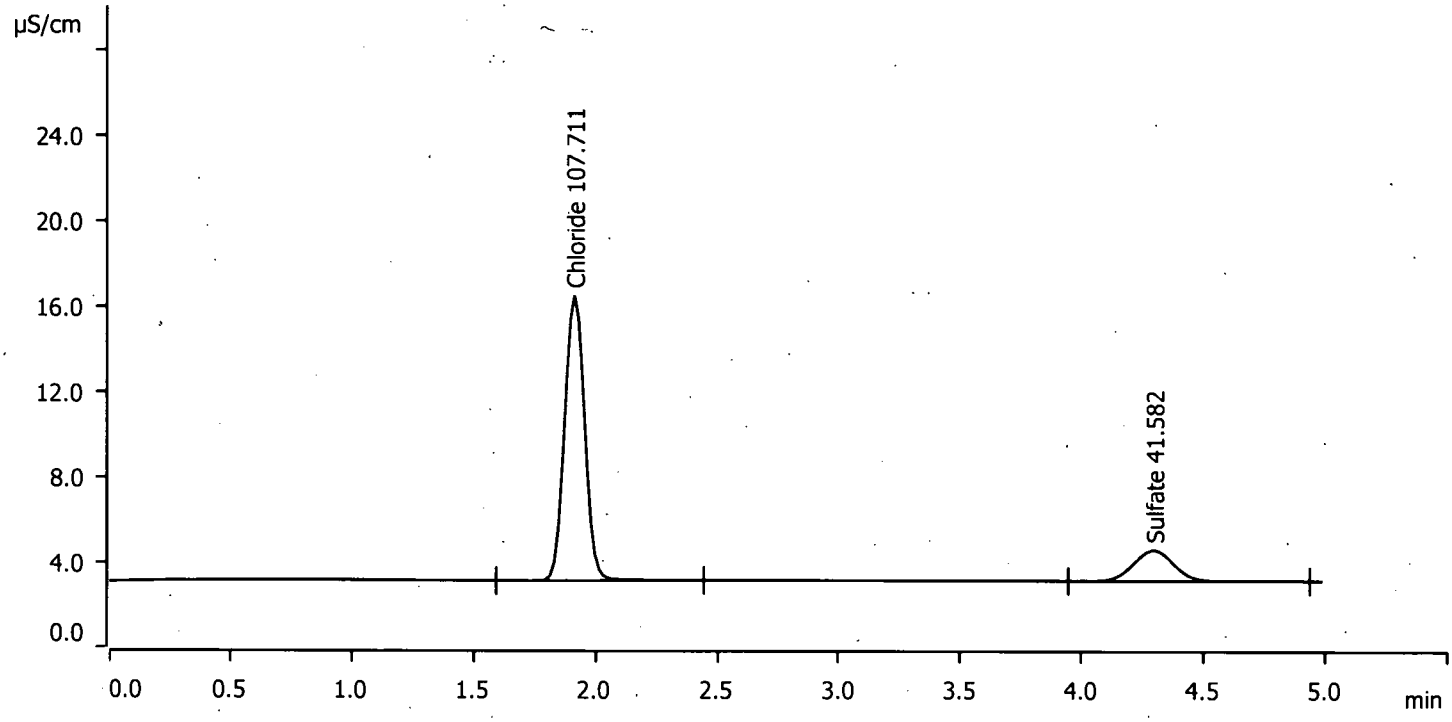
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.152	194.215	Fluoride	BB
2	1.92	0.315	666.663	Chloride	BB
3	2.22	0.210	194.408	Nitrite	BB
4	2.56	0.030	190.054	Bromide	BB
5	2.82	0.215	191.799	Nitrate	BB
6	4.29	0.455	1295.613	Sulfate	BB

Sample data

Ident	R2408385-011
Sample type	Sample
Determination start	2024-09-15 10:25:11 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92314
Sample Position	24
Comment 1	300.0 S
Comment 2	

Anions



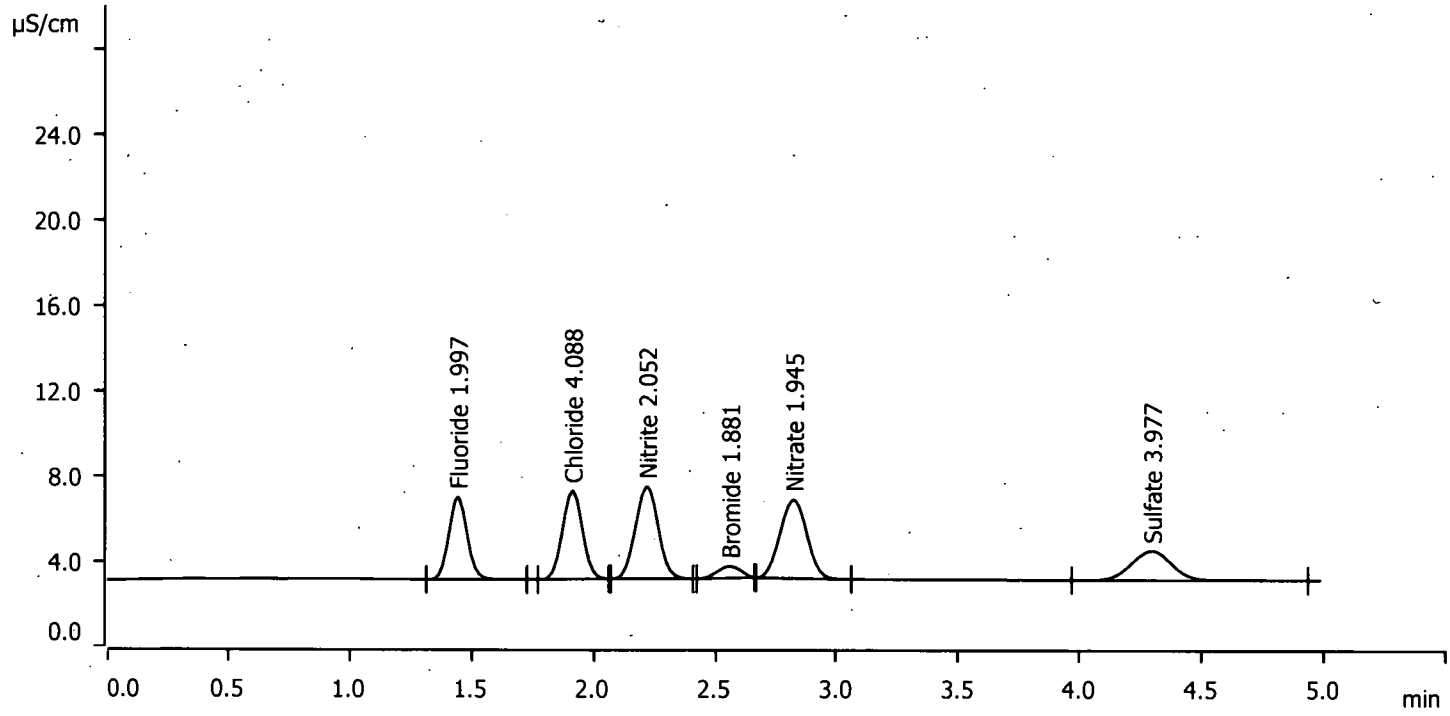
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	1.268	107.711	Chloride	BB
2	4.30	0.279	41.582	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-15 10:32:07 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92315
Sample Position	25
Comment 1	300.0/9056A
Comment 2	

Anions



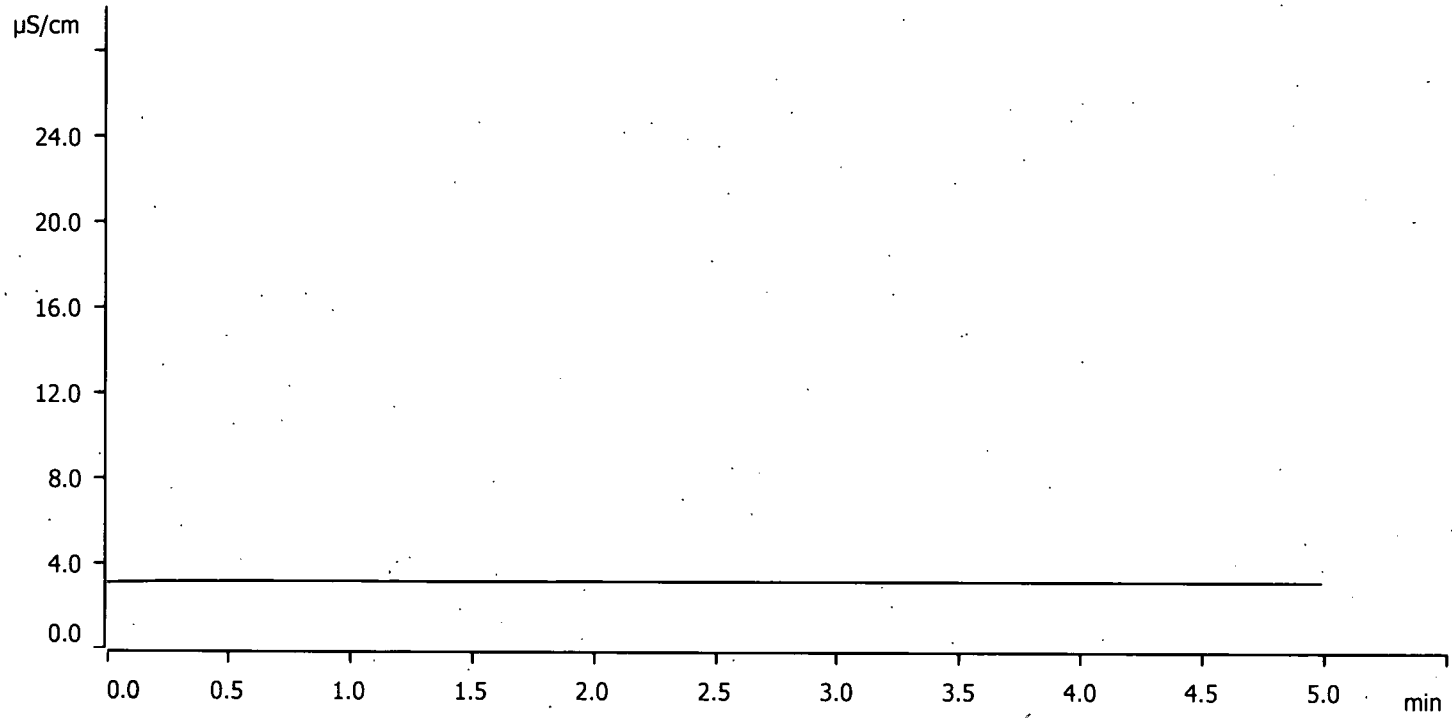
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.335	1.997	Fluoride	BB
2	1.92	0.396	4.088	Chloride	BB
3	2.22	0.474	2.052	Nitrite	BB
4	2.56	0.062	1.881	Bromide	BB
5	2.83	0.472	1.945	Nitrate	BB
6	4.30	0.266	3.977	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-15 10:38:39 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92316
Sample Position	26
Comment 1	300.0/9056A
Comment 2	

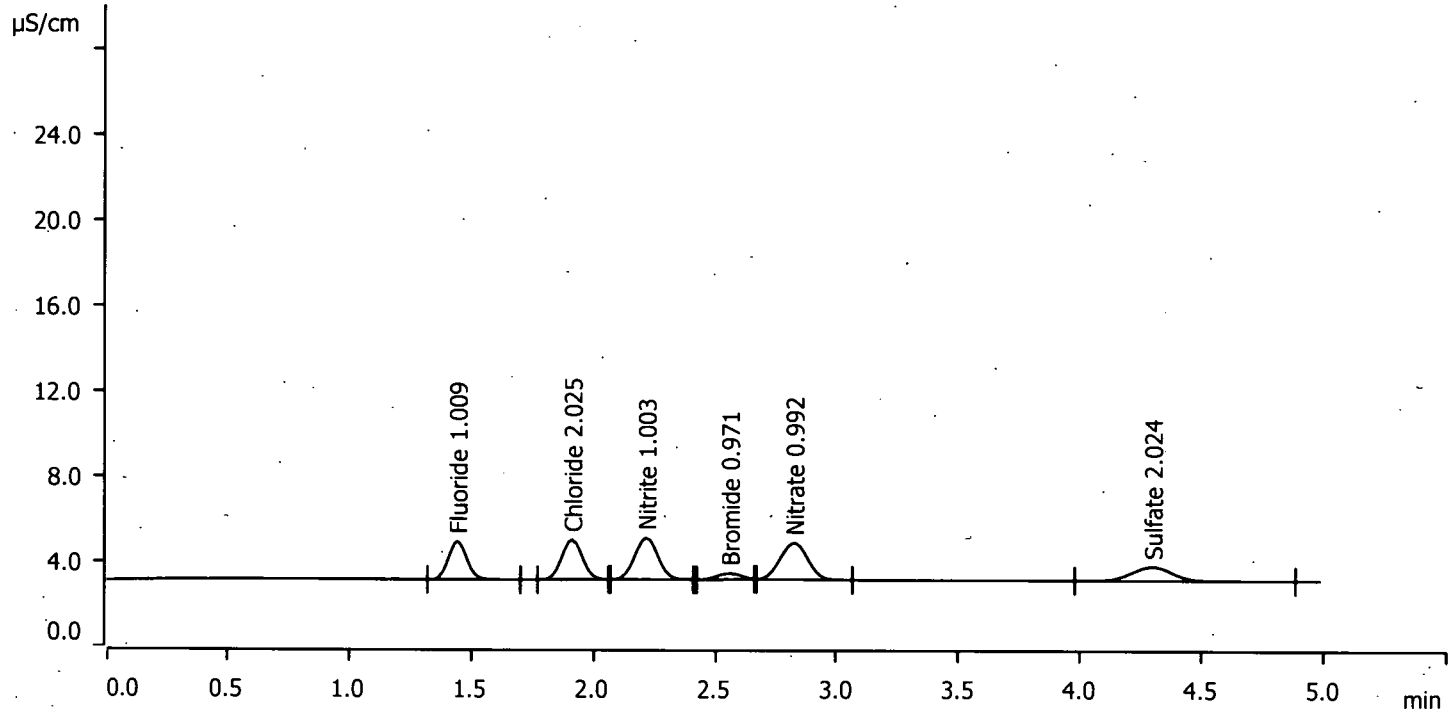
Anions



Sample data

Ident	LCS
Sample type	Check standard 2
Determination start	2024-09-15 10:44:54 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92317
Sample Position	27
Comment 1	300.0/9056A
Comment 2	

Anions



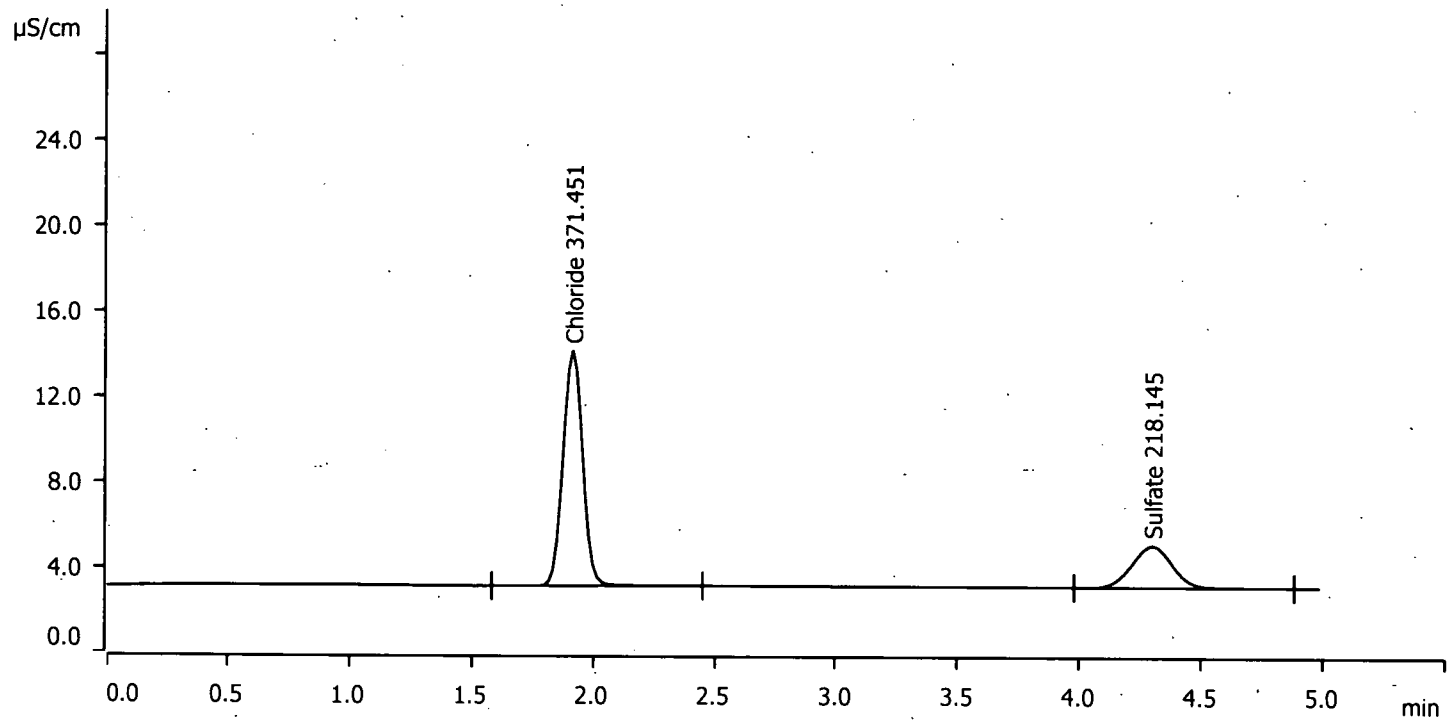
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.158	1.009	Fluoride	BB
2	1.92	0.182	2.025	Chloride	BB
3	2.22	0.217	1.003	Nitrite	BB
4	2.56	0.031	0.971	Bromide	BB
5	2.83	0.223	0.992	Nitrate	BB
6	4.30	0.130	2.024	Sulfate	BB

Sample data

Ident	R2408385-012
Sample type	Sample
Determination start	2024-09-15 10:51:11 UTC-4
Method	10-091224FAST
Dilution	40
Counter	92318
Sample Position	28
Comment 1	300.0 S
Comment 2	

Anions



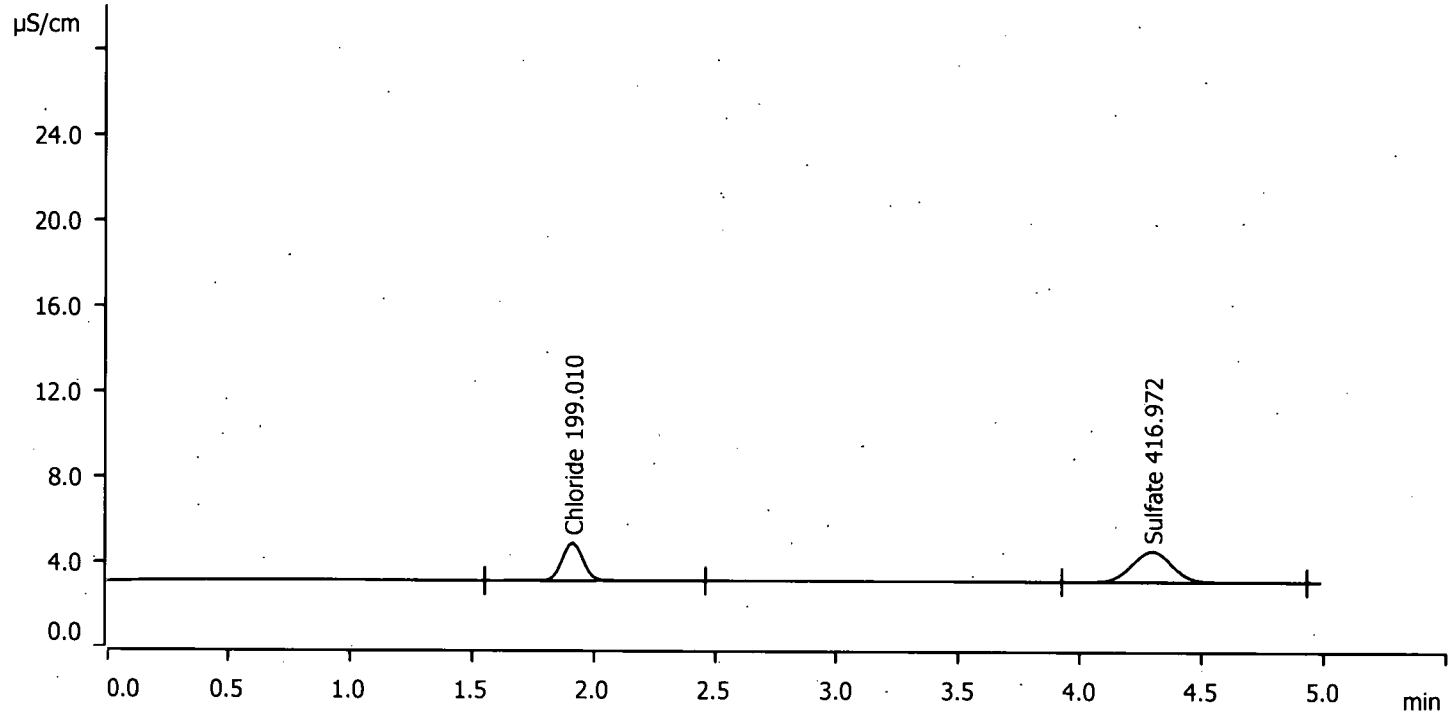
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	1.050	371.451	Chloride	BB
2	4.30	0.376	218.145	Sulfate	BB

Sample data

Ident	R2408385-013
Sample type	Sample
Determination start	2024-09-15 10:57:26 UTC-4
Method	10-091224FAST
Dilution	100
Counter	92319
Sample Position	29
Comment 1	300.0 S
Comment 2	

Anions



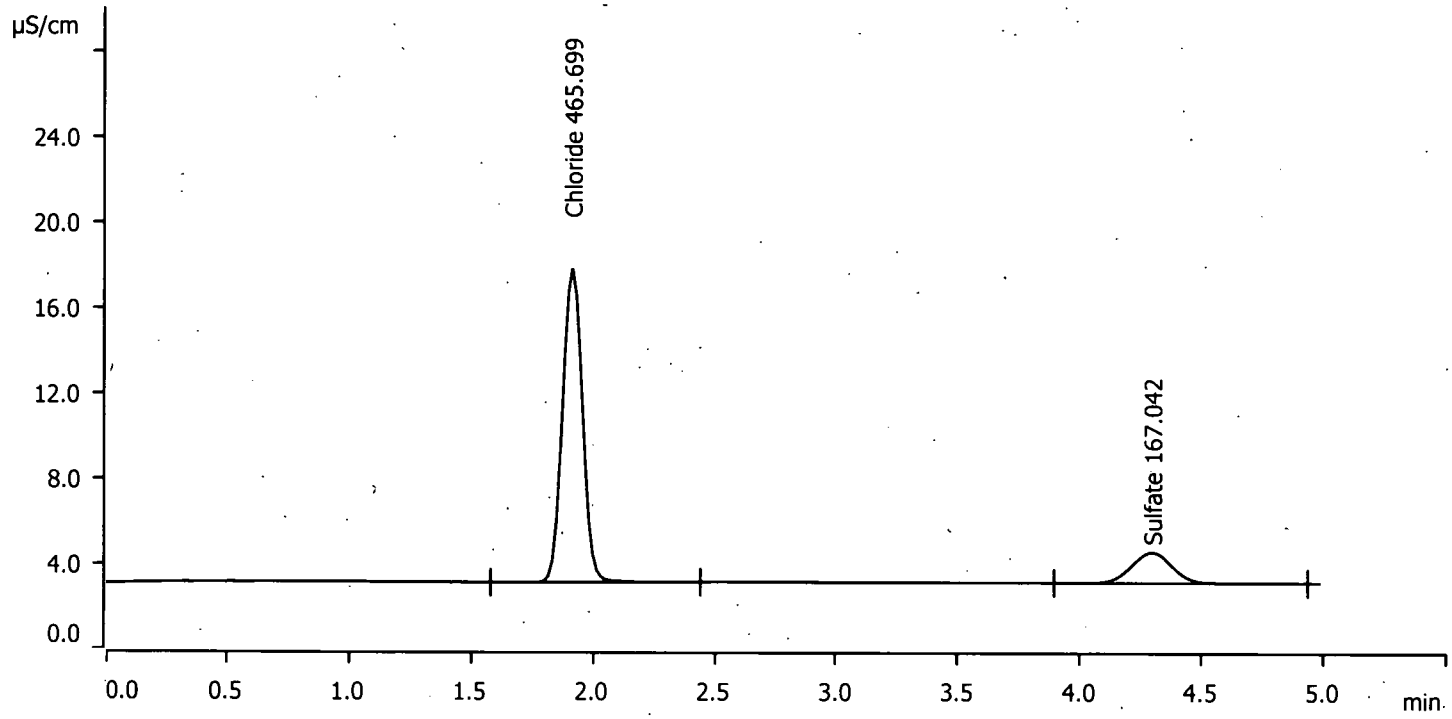
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.179	199.010	Chloride	BB
2	4.30	0.280	416.972	Sulfate	BB

Sample data

Ident	R2408385-014
Sample type	Sample
Determination start	2024-09-15 11:03:41 UTC-4
Method	10-091224FAST
Dilution	40
Counter	92320
Sample Position	30
Comment 1	300.0 S
Comment 2	

Anions



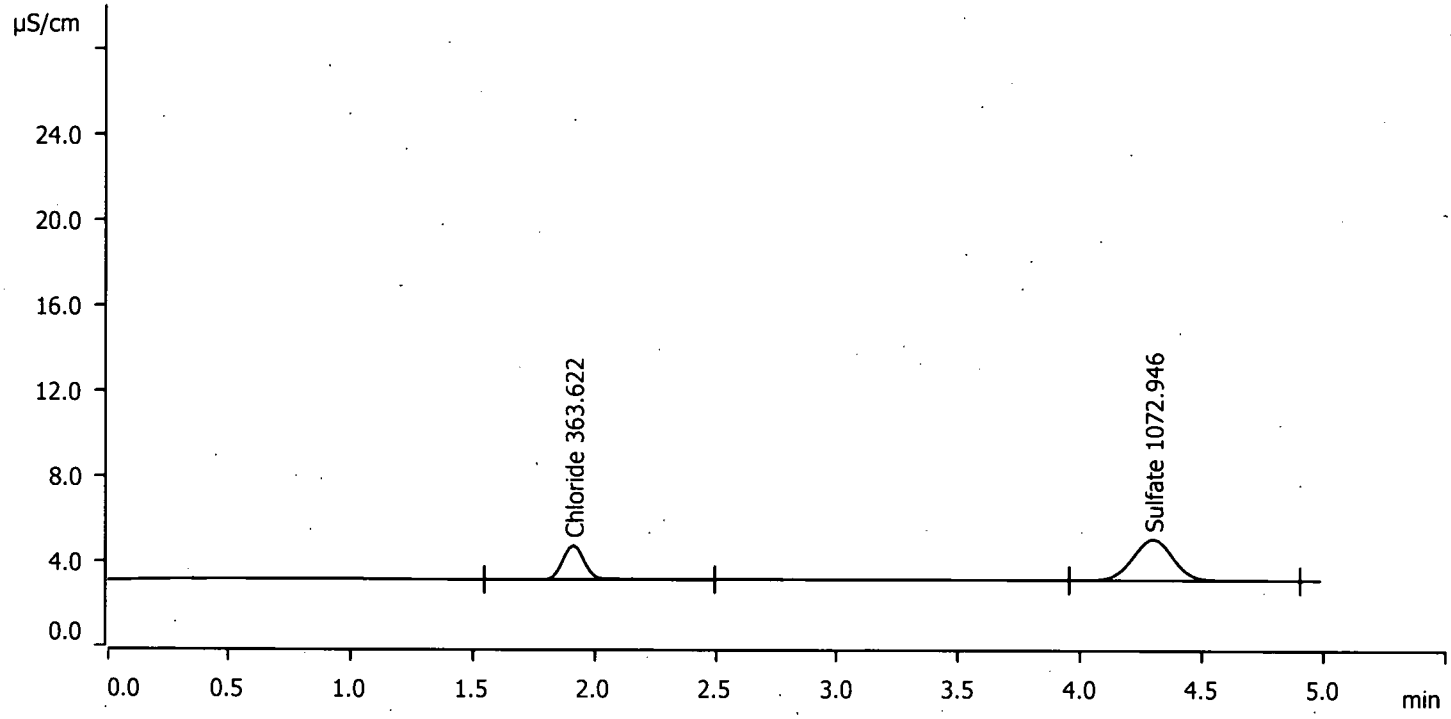
Anions

Peak number	Retention time	Area	Concentration	Component name	Type
	min	(µS/cm) x min	ppm		
1	1.92	1.401	465.699	Chloride	BB
2	4.30	0.280	167.042	Sulfate	BB

Sample data

Ident	R2408385-015
Sample type	Sample
Determination start	2024-09-15 11:09:56 UTC-4
Method	10-091224FAST
Dilution	200
Counter	92321
Sample Position	31
Comment 1	300.0 S
Comment 2	

Anions



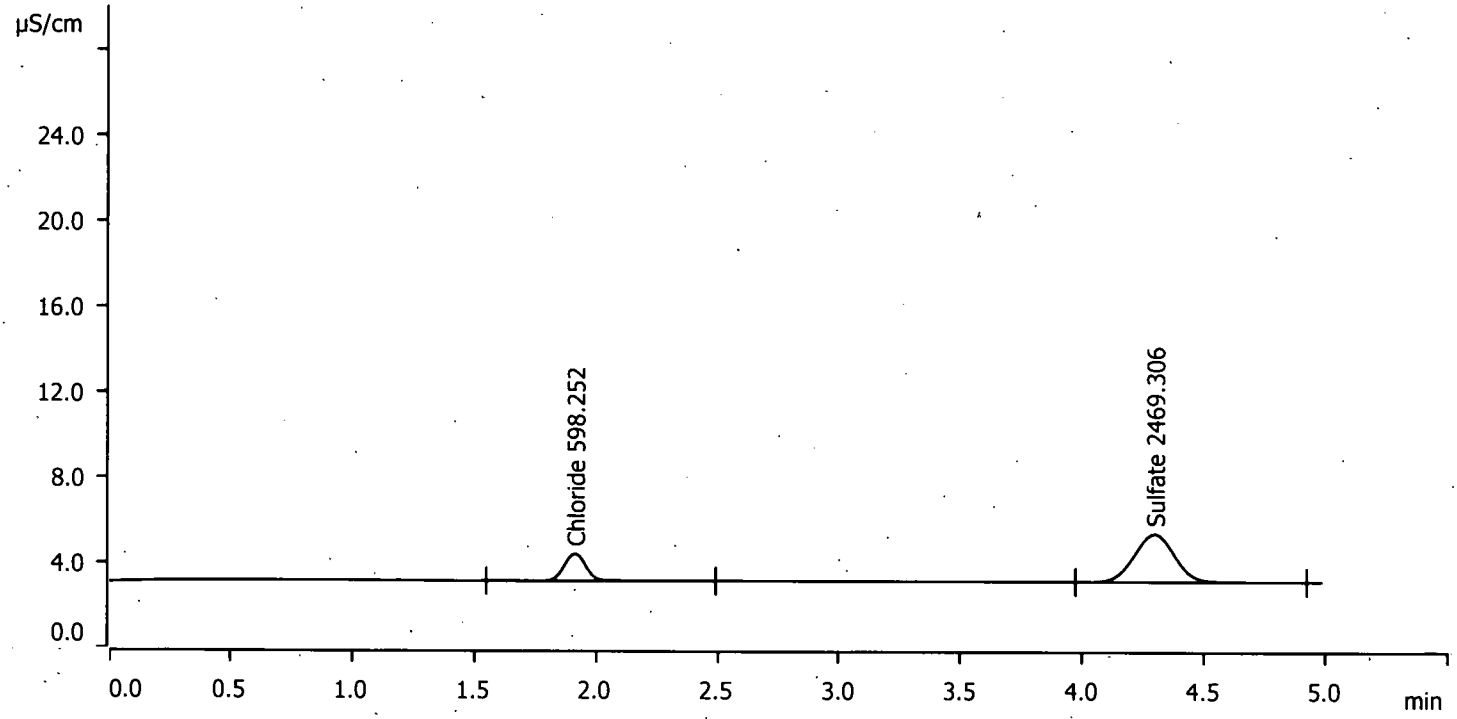
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.162	363.622	Chloride	BB
2	4.30	0.369	1072.946	Sulfate	BB

Sample data

Ident	R2408385-016
Sample type	Sample
Determination start	2024-09-15 11:16:11 UTC-4
Method	10-091224FAST
Dilution	400
Counter	92322
Sample Position	32
Comment 1	300.0 S
Comment 2	

Anions



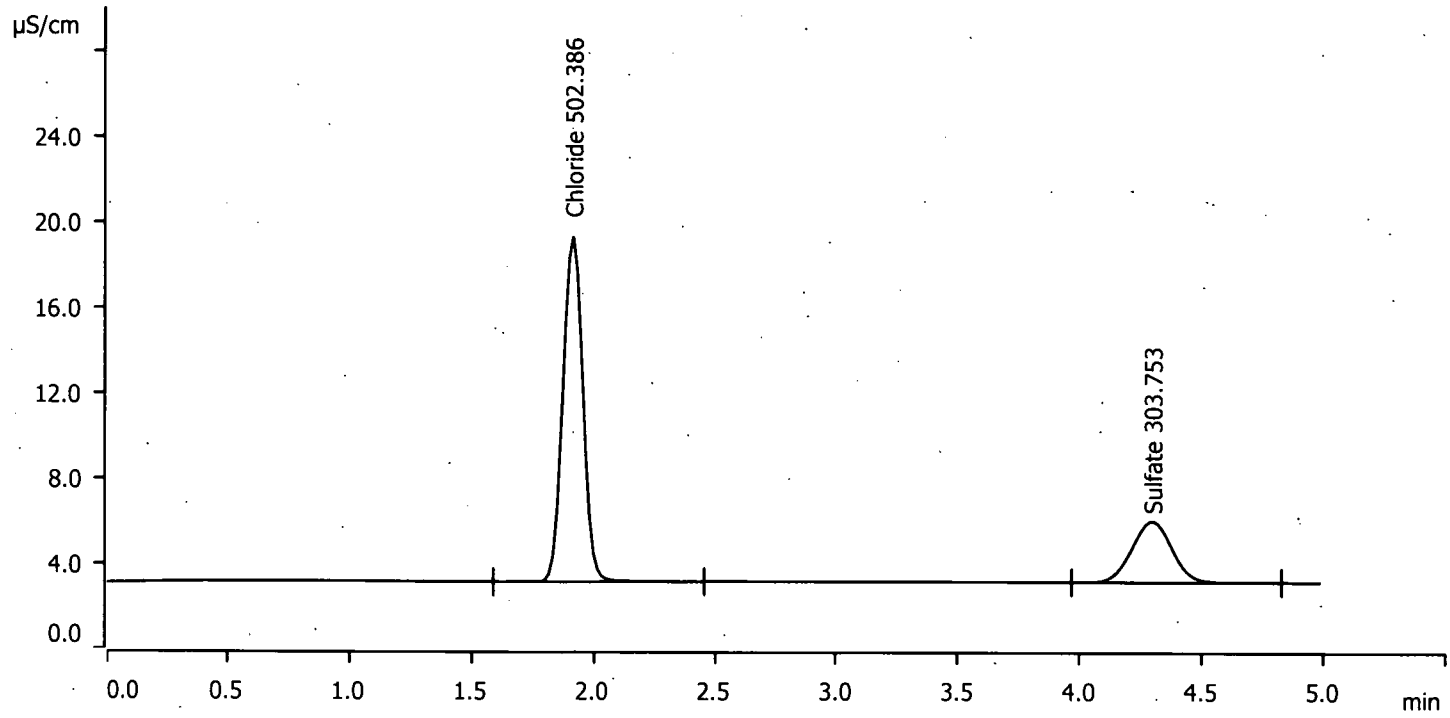
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.132	598.252	Chloride	BB
2	4.30	0.431	2469.306	Sulfate	BB

Sample data

Ident	R2408385-017
Sample type	Sample
Determination start	2024-09-15 11:22:26 UTC-4
Method	10-091224FAST
Dilution	40
Counter	92323
Sample Position	33
Comment 1	300.0 S
Comment 2	

Anions



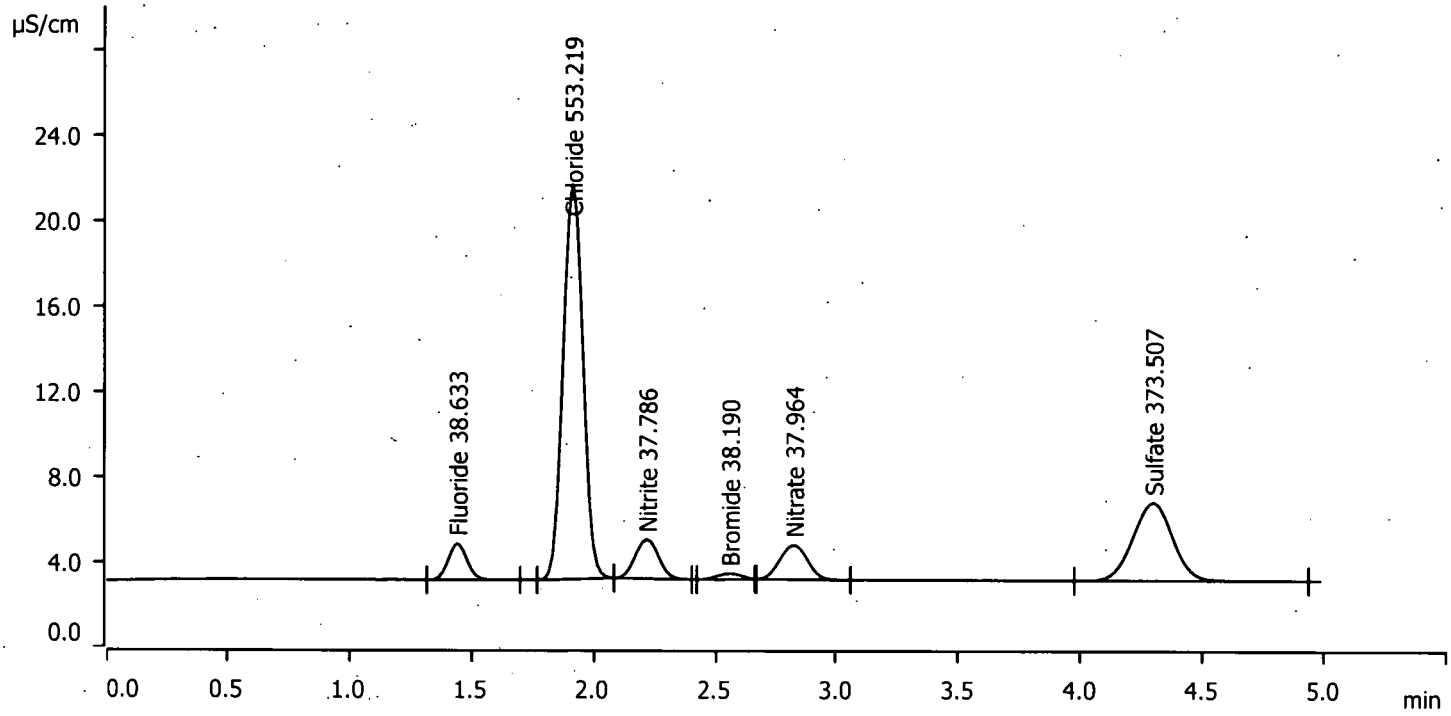
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	1.547	502.386	Chloride	BB
2	4.30	0.546	303.753	Sulfate	BB

Sample data

Ident	R2408385-017 MS
Sample type	Sample
Determination start	2024-09-15 11:28:41 UTC-4
Method	10-091224FAST
Dilution	40
Counter	92324
Sample Position	34
Comment 1	300.0 S
Comment 2	

Anions



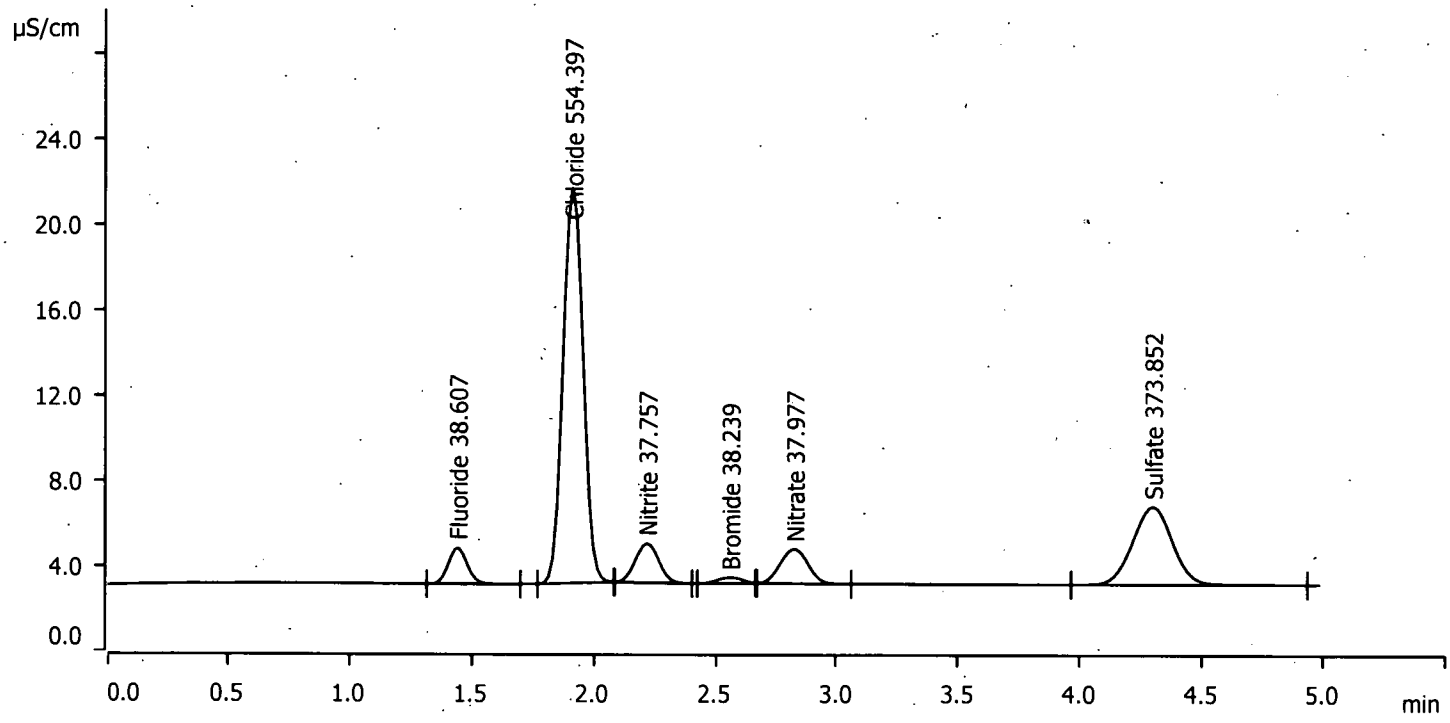
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.151	38.633	Fluoride	BB
2	1.92	1.758	553.219	Chloride	BB
3	2.22	0.203	37.786	Nitrite	BB
4	2.56	0.031	38.190	Bromide	BB
5	2.82	0.213	37.964	Nitrate	BB
6	4.30	0.693	373.507	Sulfate	BB

Sample data

Ident	R2408385-017 MSD
Sample type	Sample
Determination start	2024-09-15 11:34:57 UTC-4
Method	10-091224FAST
Dilution	40
Counter	92325
Sample Position	35
Comment 1	300.0 S
Comment 2	

Anions



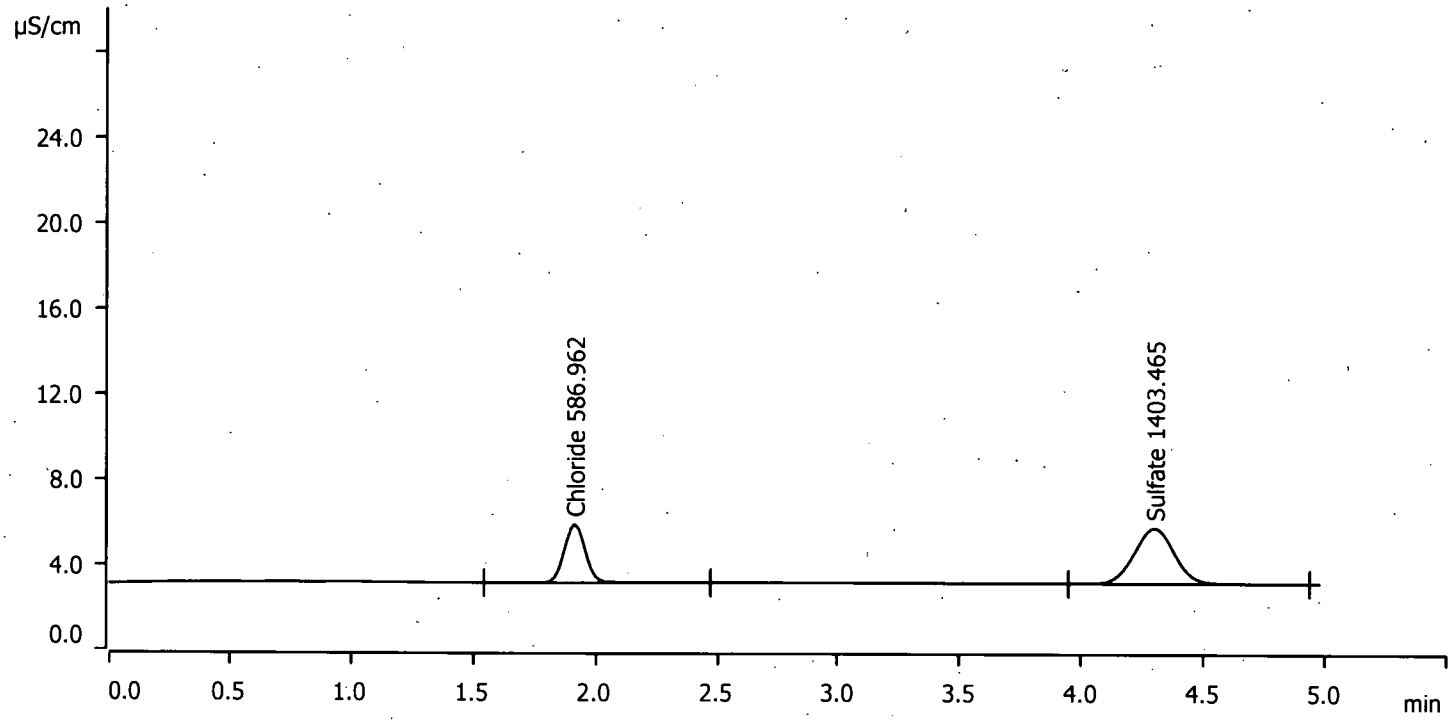
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.151	38.607	Fluoride	BB
2	1.92	1.763	554.397	Chloride	BB
3	2.22	0.203	37.757	Nitrite	BB
4	2.56	0.031	38.239	Bromide	BB
5	2.83	0.213	37.977	Nitrate	BB
6	4.30	0.694	373.852	Sulfate	BB

Sample data

Ident	R2408385-018
Sample type	Sample
Determination start	2024-09-15 11:41:13 UTC-4
Method	10-091224FAST
Dilution	200
Counter	92326
Sample Position	36
Comment 1	300.0 S
Comment 2	

Anions



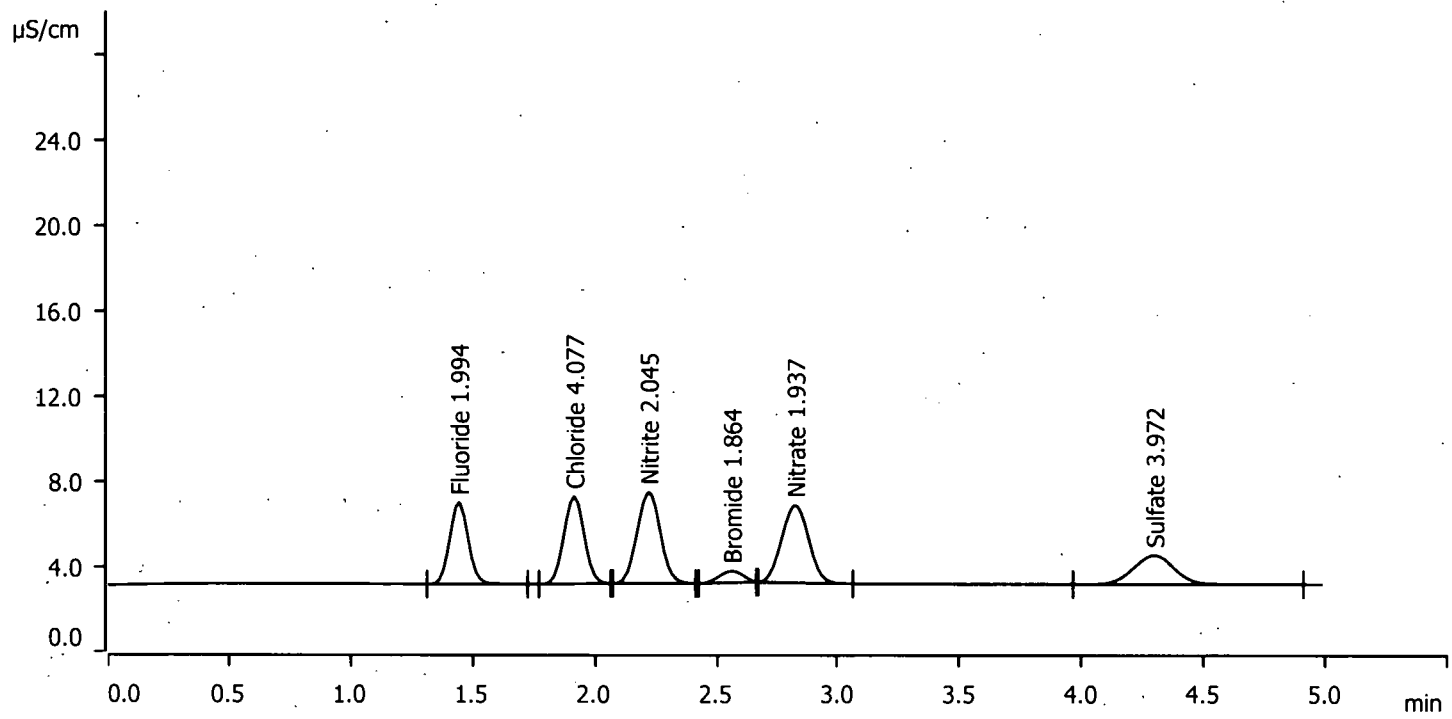
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.273	586.962	Chloride	BB
2	4.30	0.499	1403.465	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-15 11:47:28 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92327
Sample Position	37
Comment 1	300.0/9056A
Comment 2	

Anions



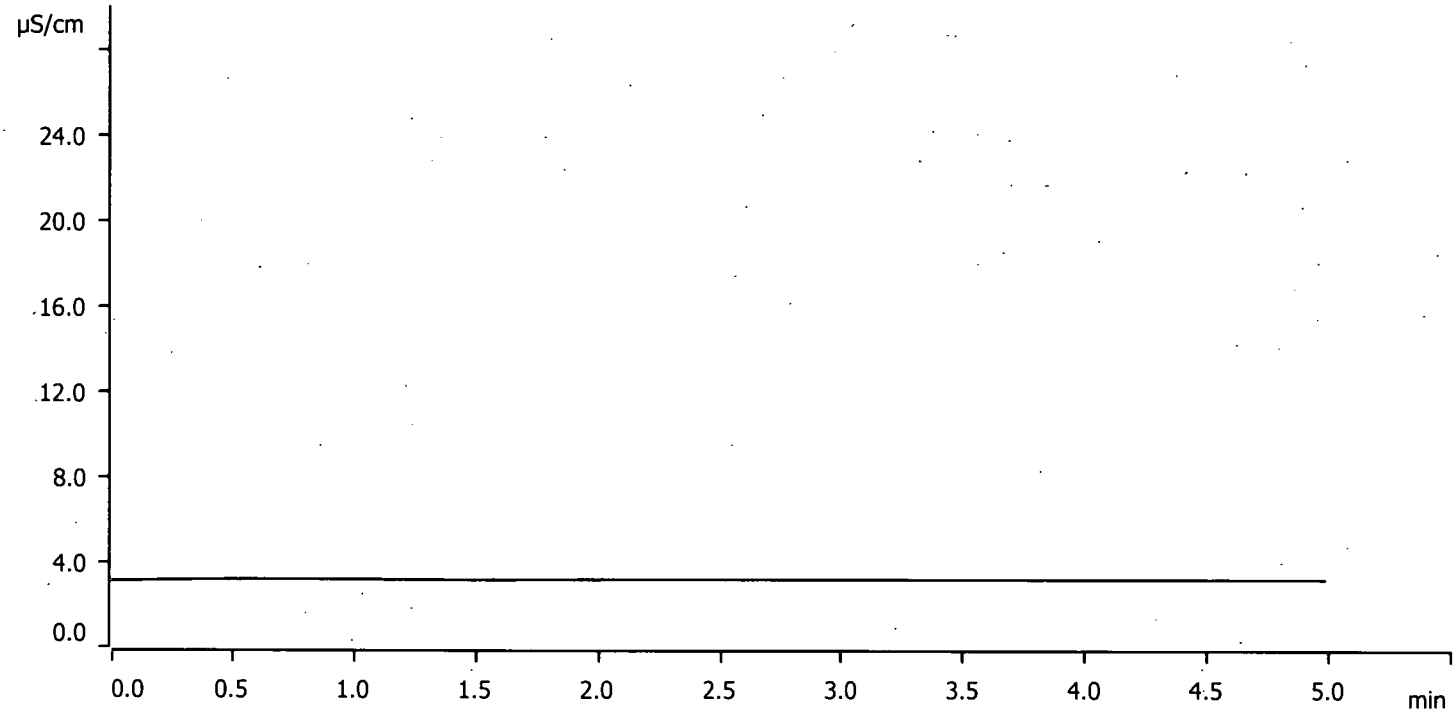
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.334	1.994	Fluoride	BB
2	1.92	0.395	4.077	Chloride	BB
3	2.22	0.472	2.045	Nitrite	BB
4	2.57	0.062	1.864	Bromide	BB
5	2.83	0.469	1.937	Nitrate	BB
6	4.30	0.266	3.972	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-15 11:53:44 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92328
Sample Position	38
Comment 1	300.0/9056A
Comment 2	

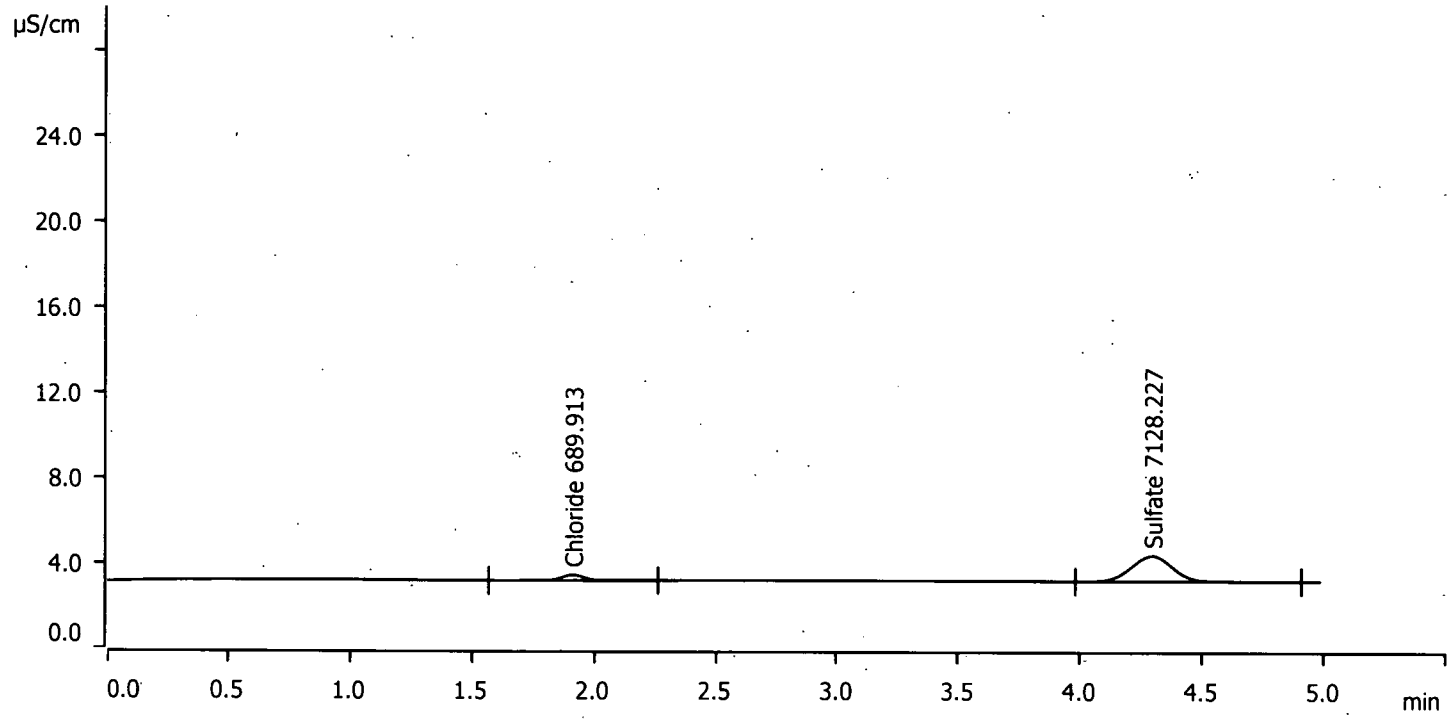
Anions



Sample data

Ident	R2408385-019
Sample type	Sample
Determination start	2024-09-15 11:59:58 UTC-4
Method	10-091224FAST
Dilution	2000
Counter	92329
Sample Position	39
Comment 1	300.0 S
Comment 2	

Anions



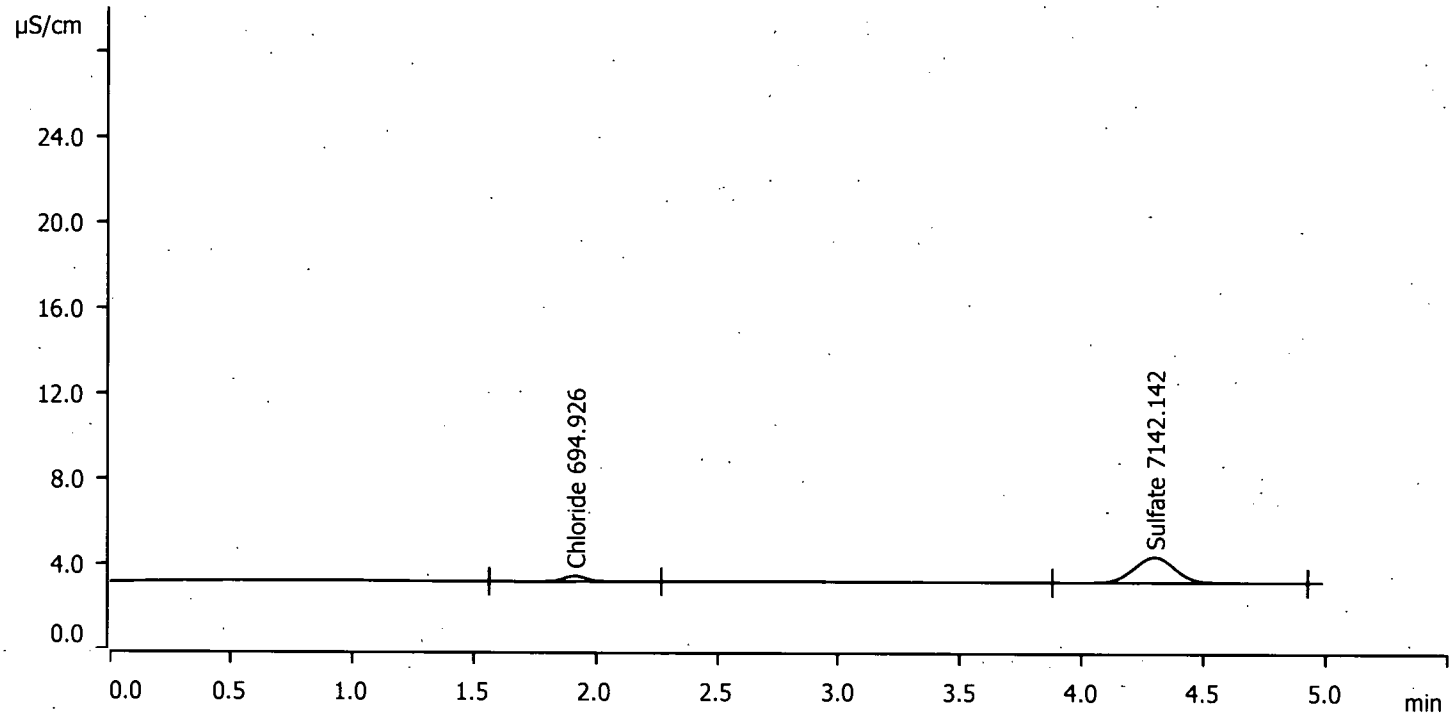
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.028	689.913	Chloride	BB
2	4.30	0.236	7128.227	Sulfate	BB

Sample data

Ident	R2408385-020
Sample type	Sample
Determination start	2024-09-15 12:06:13 UTC-4
Method	10-091224FAST
Dilution	2000
Counter	92330
Sample Position	40
Comment 1	300.0 S
Comment 2	

Anions



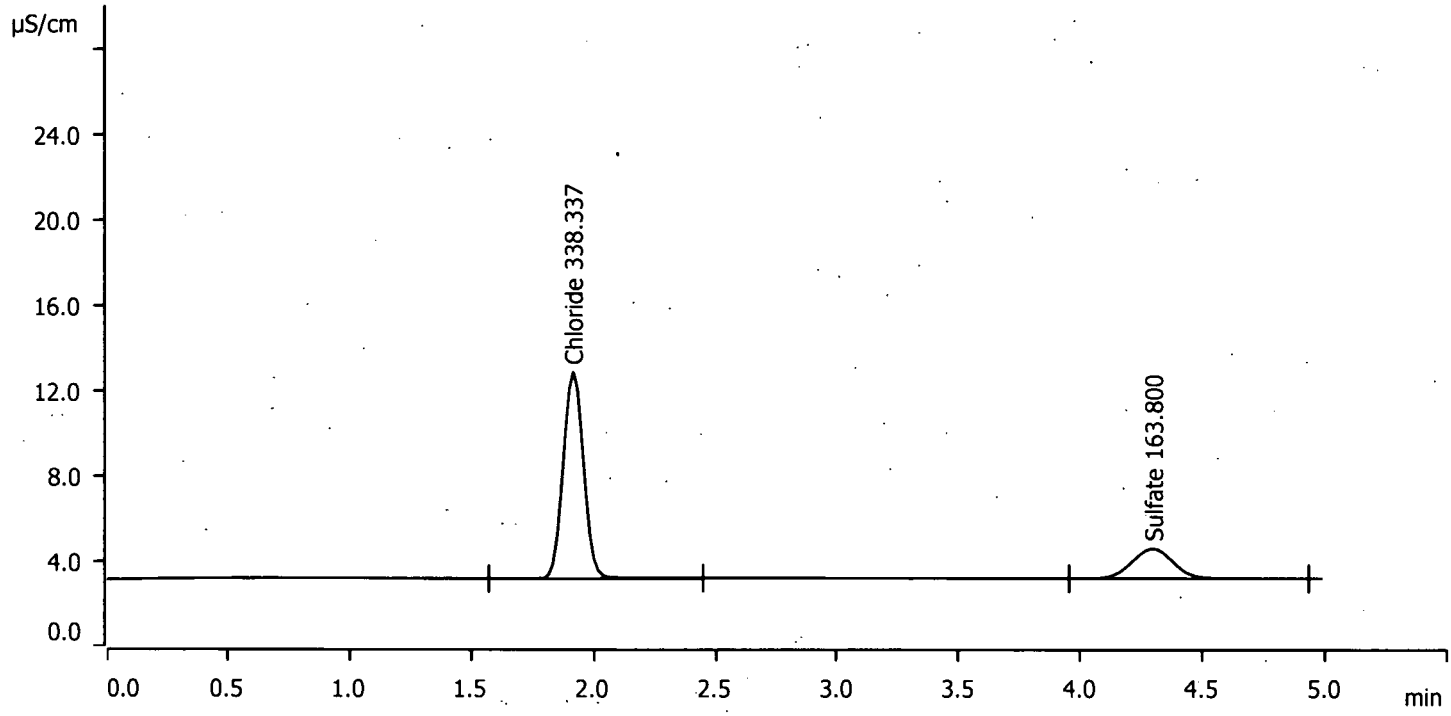
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.028	694.926	Chloride	BB
2	4.30	0.237	7142.142	Sulfate	BB

Sample data

Ident	R2408385-021
Sample type	Sample
Determination start	2024-09-15 12:12:28 UTC-4
Method	10-091224FAST
Dilution	40
Counter	92331
Sample Position	41
Comment 1	300.0 S
Comment 2	

Anions



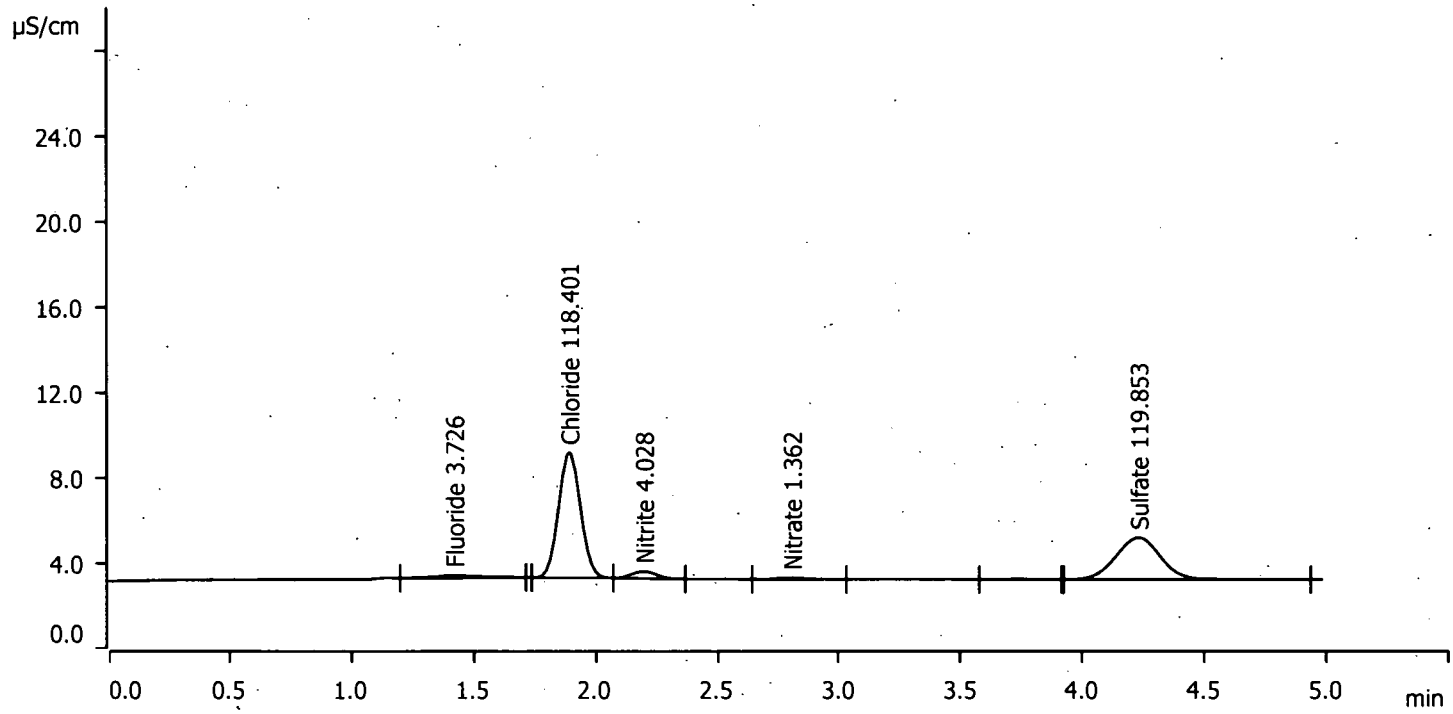
Anions

Peak number	Retention time	Area	Concentration	Component name	Type
	min	(µS/cm) x min	ppm		
1	1.92	0.935	338.337	Chloride	BB
2	4.30	0.275	163.800	Sulfate	BB

Sample data

Ident	R2408385-023
Sample type	Sample
Determination start	2024-09-15 12:18:43 UTC-4
Method	10-091224FAST
Dilution	20
Counter	92332
Sample Position	42
Comment 1	300.0 S
Comment 2	

Anions



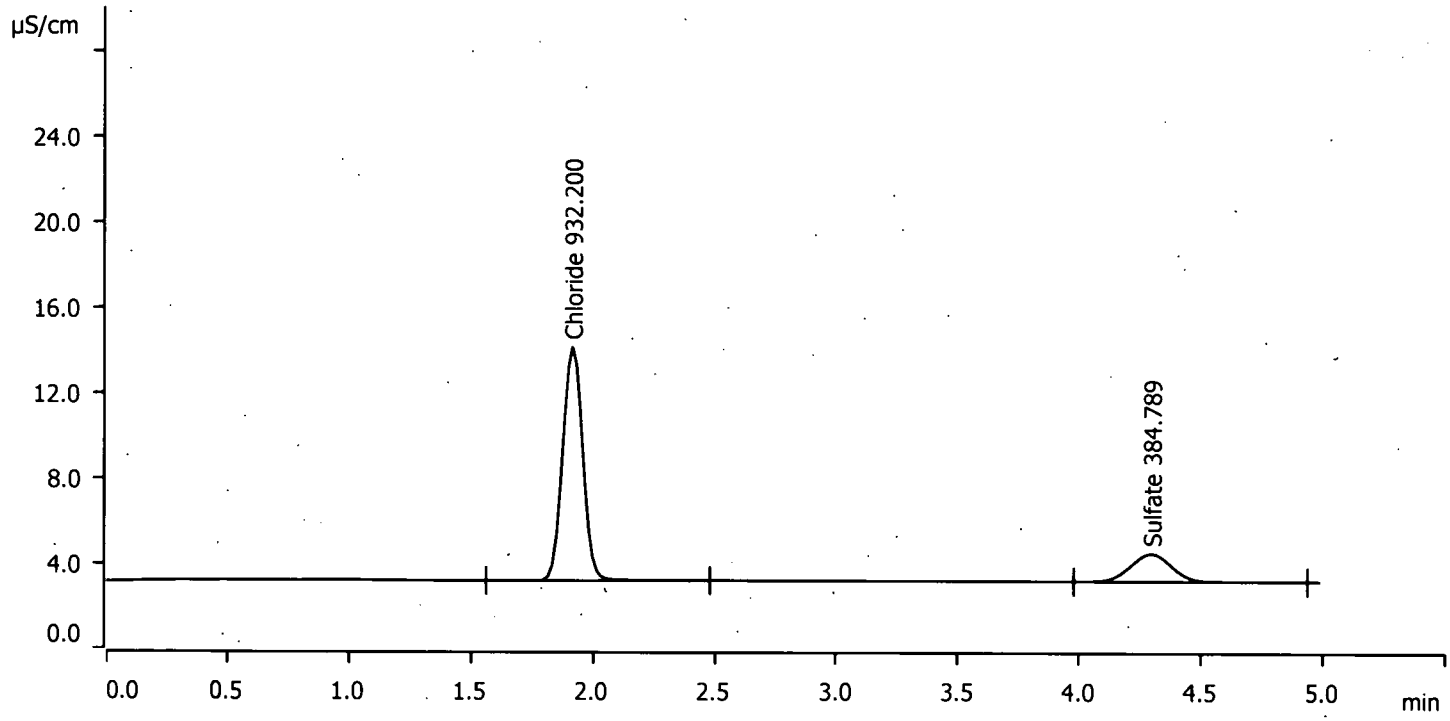
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.43	0.025	3.726	Fluoride	BBI
2	1.90	0.607	118.401	Chloride	BB
3	2.20	0.039	4.028	Nitrite	BB
4	2.81	0.011	1.362	Nitrate	BB
6	4.23	0.417	119.853	Sulfate	BB

Sample data

Ident	R2408385-024
Sample type	Sample
Determination start	2024-09-15 12:25:00 UTC-4
Method	10-091224FAST
Dilution	100
Counter	92333
Sample Position	43
Comment 1	300.0 S
Comment 2	

Anions



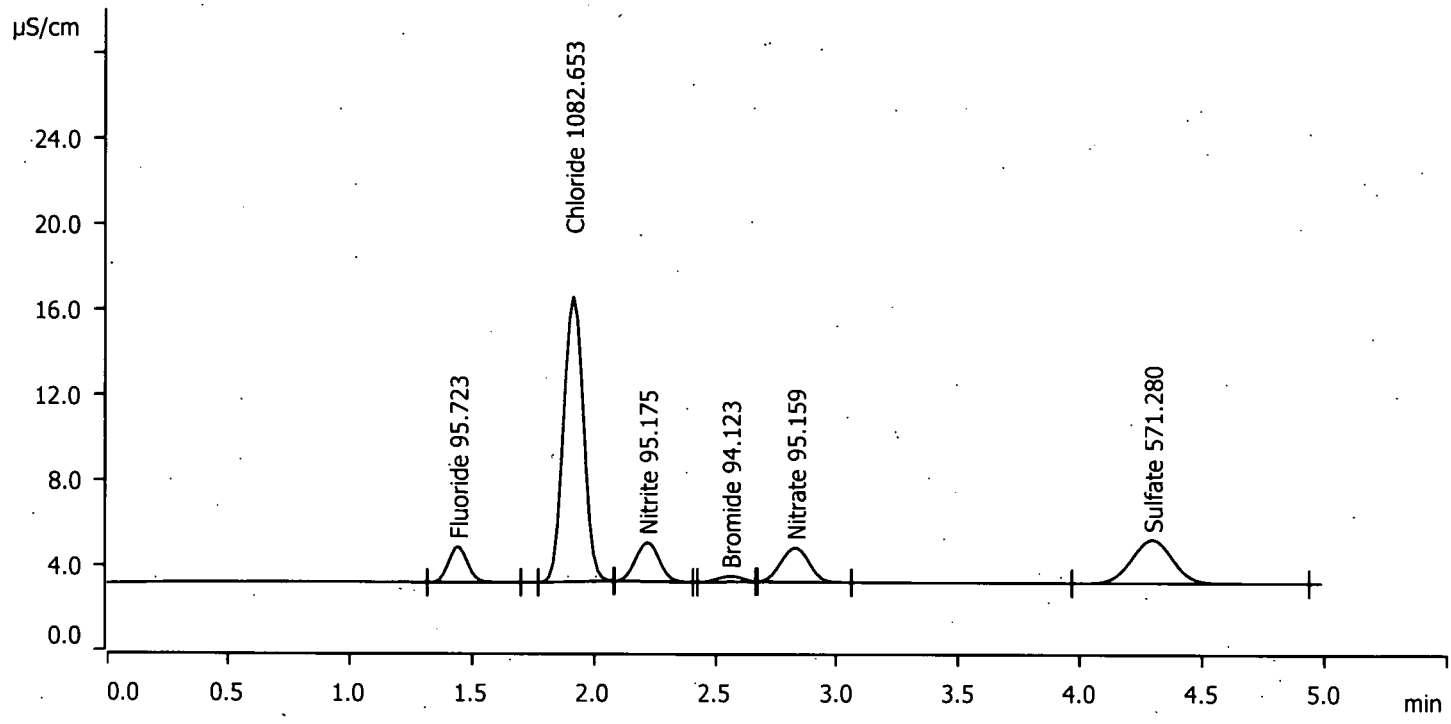
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	1.055	932.200	Chloride	BB
2	4.30	0.257	384.789	Sulfate	BB

Sample data

Ident	R2408385-024 MS
Sample type	Sample
Determination start	2024-09-15 12:31:15 UTC-4
Method	10-091224FAST
Dilution	100
Counter	92334
Sample Position	44
Comment 1	300.0 S
Comment 2	

Anions



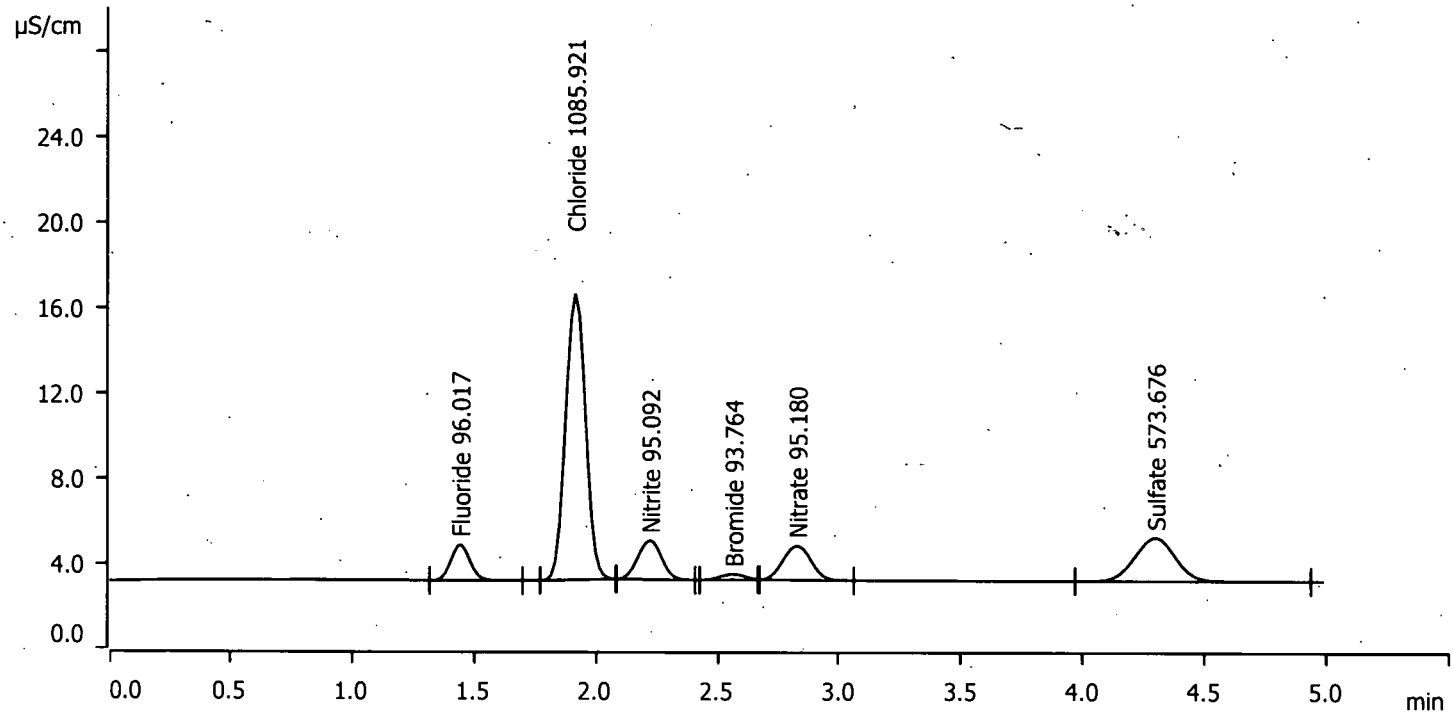
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.150	95.723	Fluoride	BB
2	1.92	1.276	1082.653	Chloride	BB
3	2.22	0.205	95.175	Nitrite	BB
4	2.57	0.030	94.123	Bromide	BB
5	2.83	0.213	95.159	Nitrate	BB
6	4.30	0.396	571.280	Sulfate	BB

Sample data

Ident	R2408385-024 MSD
Sample type	Sample
Determination start	2024-09-15 12:37:31 UTC-4
Method	10-091224FAST
Dilution	100
Counter	92335
Sample Position	45
Comment 1	300.0 S
Comment 2	

Anions



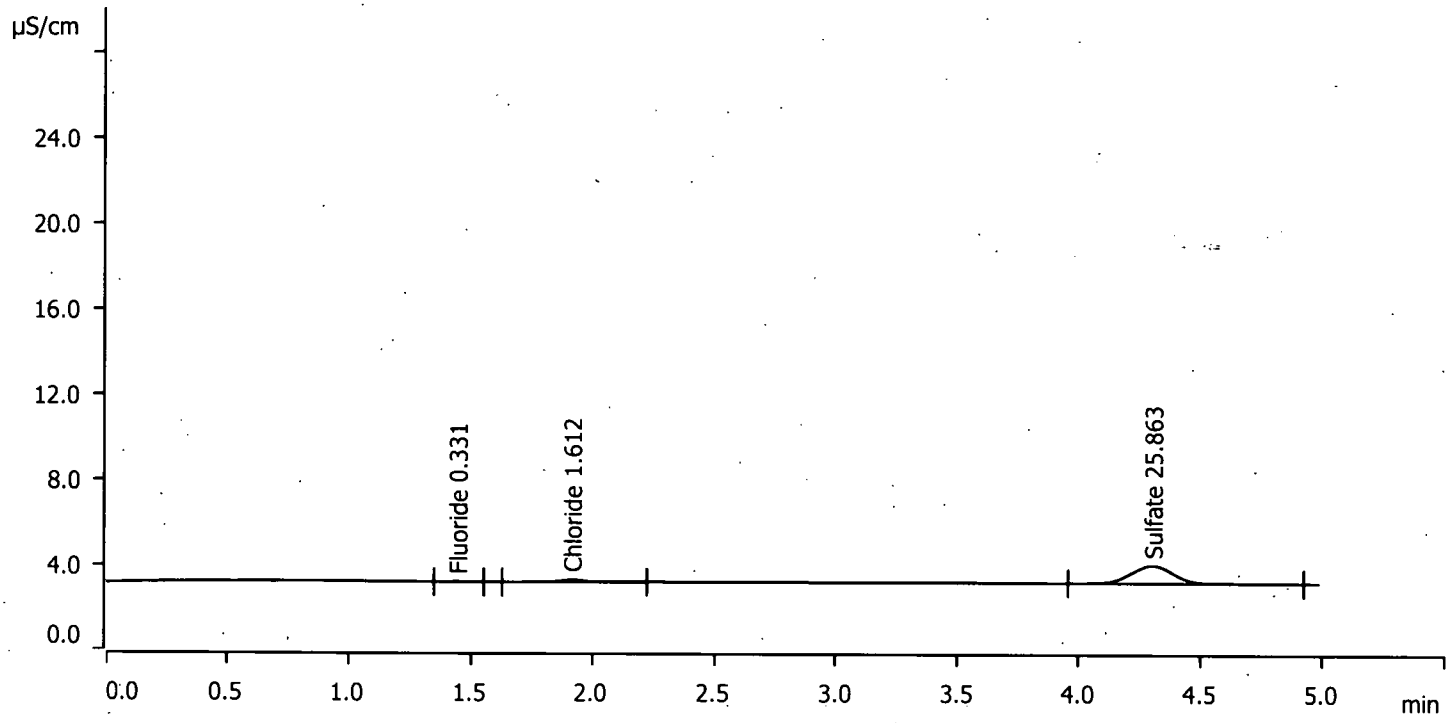
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.150	96.017	Fluoride	BB
2	1.92	1.281	1085.921	Chloride	BB
3	2.22	0.205	95.092	Nitrite	BB
4	2.57	0.030	93.764	Bromide	BB
5	2.83	0.213	95.180	Nitrate	BB
6	4.30	0.398	573.676	Sulfate	BB

Sample data

Ident	R2408139-001
Sample type	Sample
Determination start	2024-09-15 12:43:51 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92336
Sample Position	46
Comment 1	300.0 S
Comment 2	

Anions



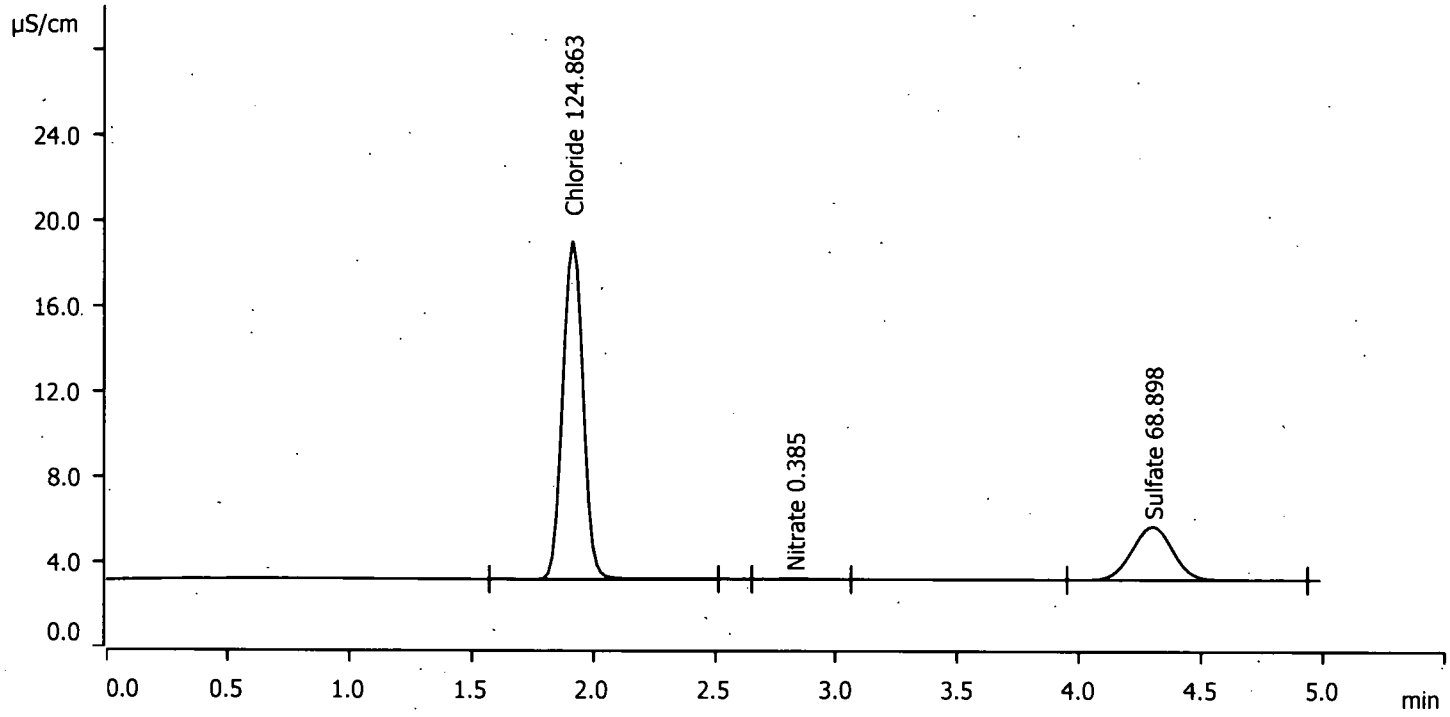
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.002	0.331	Fluoride	BB
2	1.92	0.012	1.612	Chloride	BB
3	4.30	0.168	25.863	Sulfate	BB

Sample data

Ident	R2408139-002
Sample type	Sample
Determination start	2024-09-15 12:50:07 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92337
Sample Position	47
Comment 1	300.0 S
Comment 2	

Anions



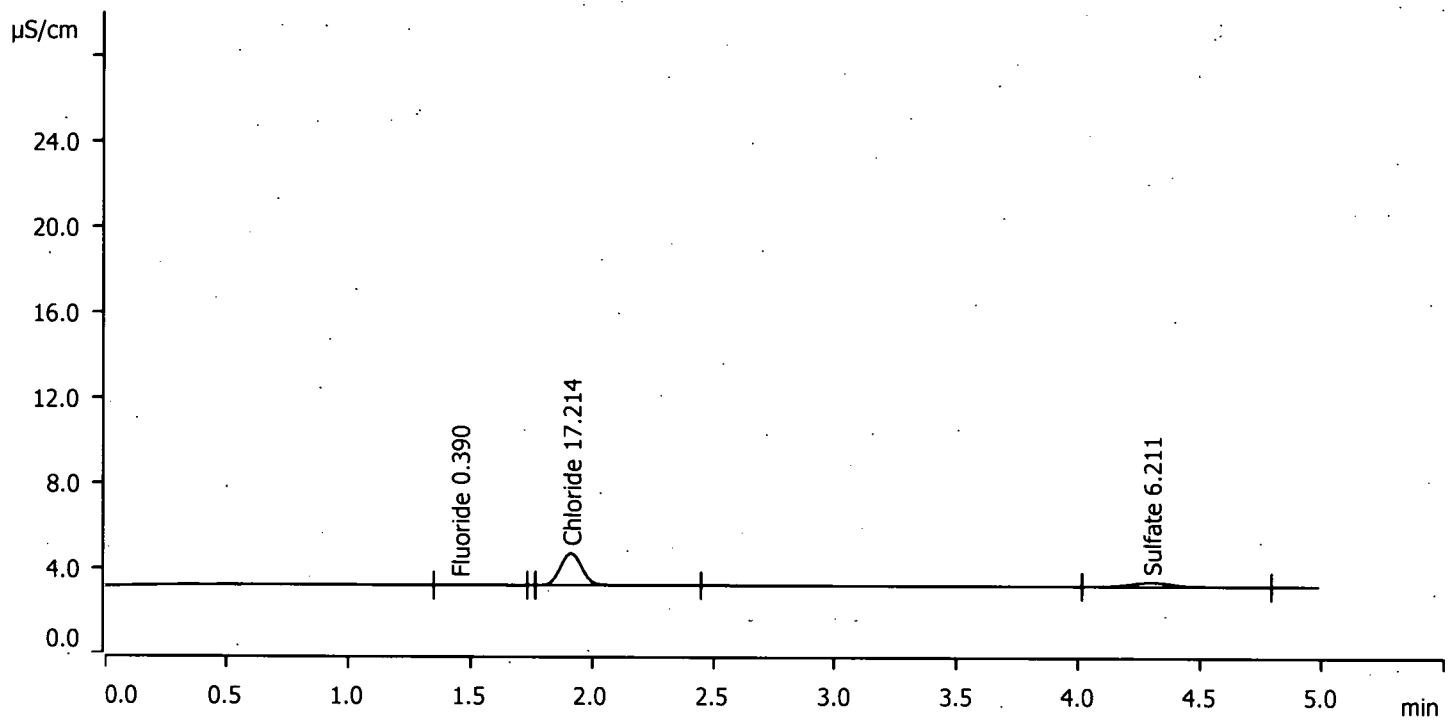
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	1.536	124.863	Chloride	BB
2	2.83	0.004	0.385	Nitrate	BB
3	4.30	0.488	68.898	Sulfate	BB

Sample data

Ident	R2408139-003
Sample type	Sample
Determination start	2024-09-15 12:56:21 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92338
Sample Position	48
Comment 1	300.0 S
Comment 2	

Anions



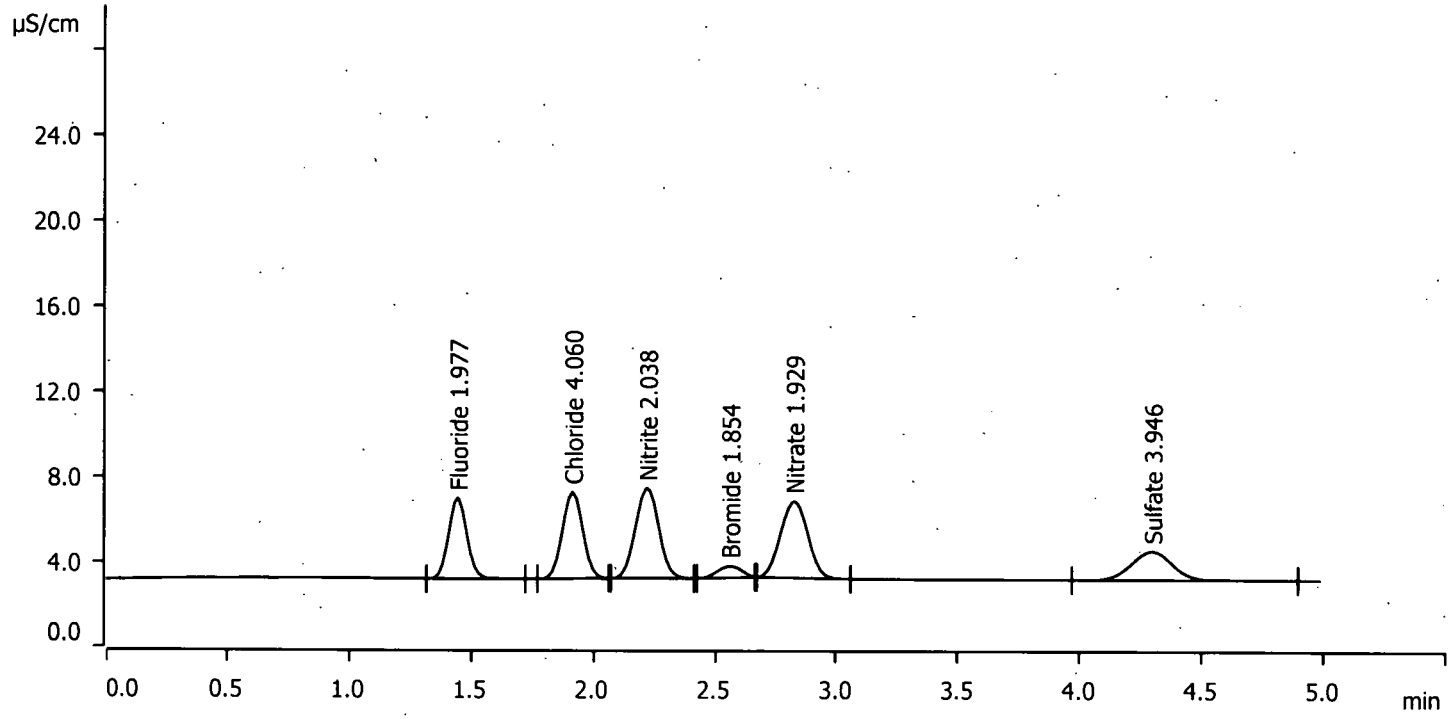
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.46	0.003	0.390	Fluoride	BB
2	1.92	0.153	17.214	Chloride	BB
3	4.30	0.039	6.211	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-15 13:02:37 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92339
Sample Position	49
Comment 1	300.0/9056A
Comment 2	

Anions



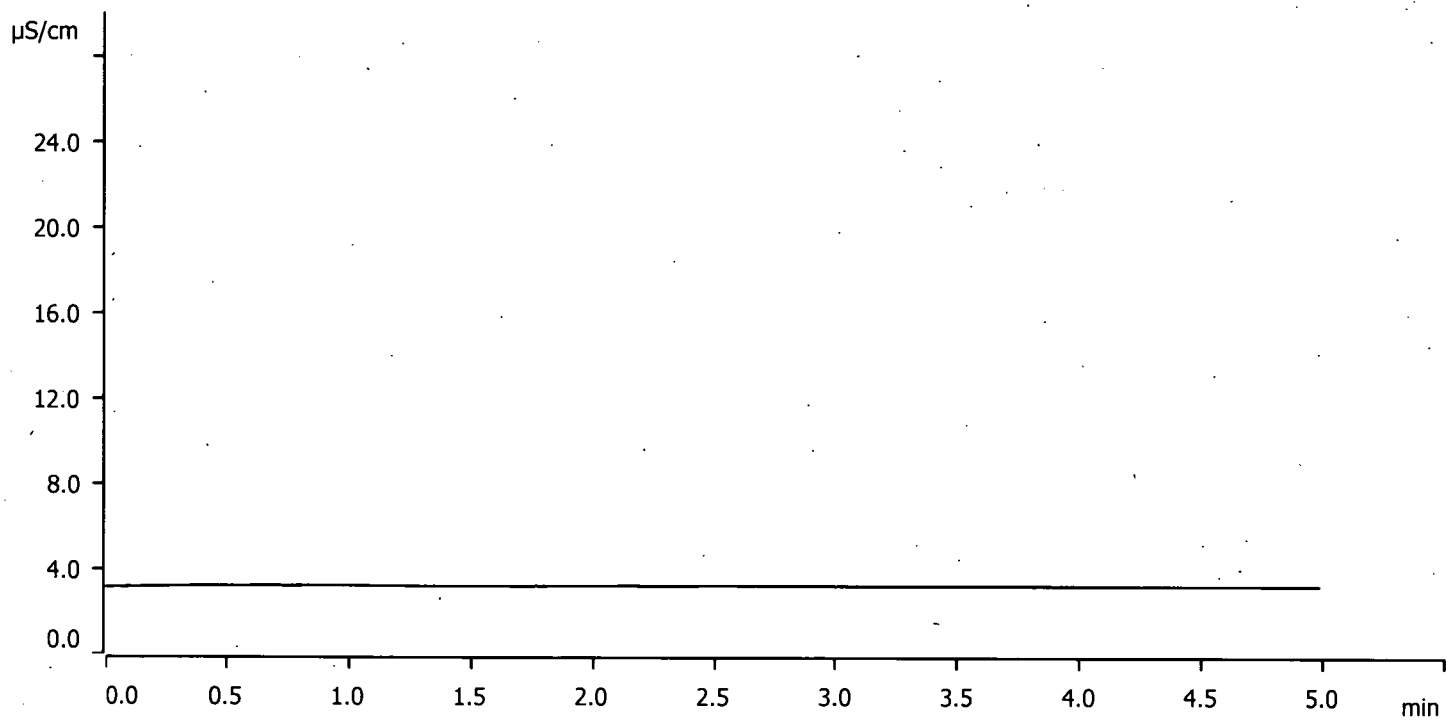
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.331	1.977	Fluoride	BB
2	1.92	0.393	4.060	Chloride	BB
3	2.22	0.470	2.038	Nitrite	BB
4	2.57	0.061	1.854	Bromide	BB
5	2.83	0.467	1.929	Nitrate	BB
6	4.30	0.264	3.946	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-15 13:08:53 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92340
Sample Position	50
Comment 1	300.0/9056A
Comment 2	

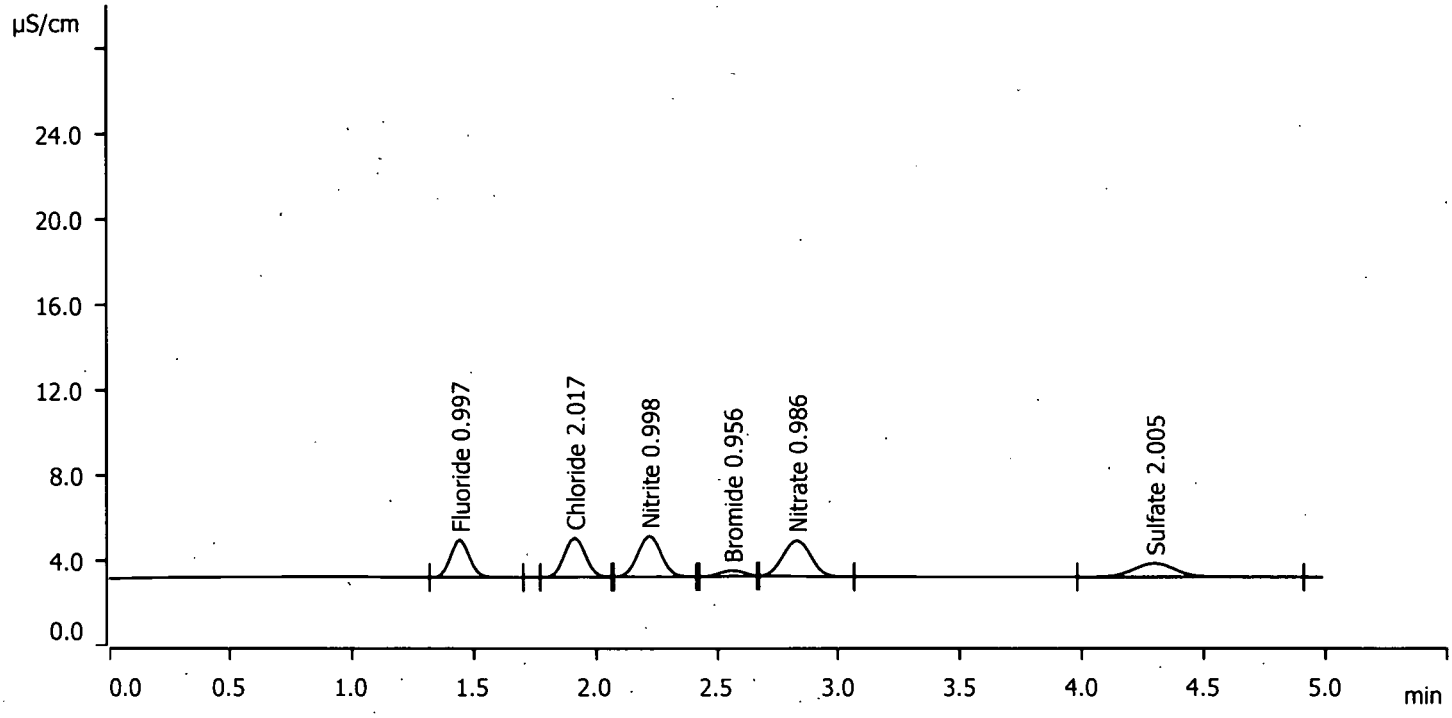
Anions



Sample data

Ident	LCS
Sample type	Check standard 2
Determination start	2024-09-15 13:15:07 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92341
Sample Position	51
Comment 1	300.0/9056A
Comment 2	

Anions



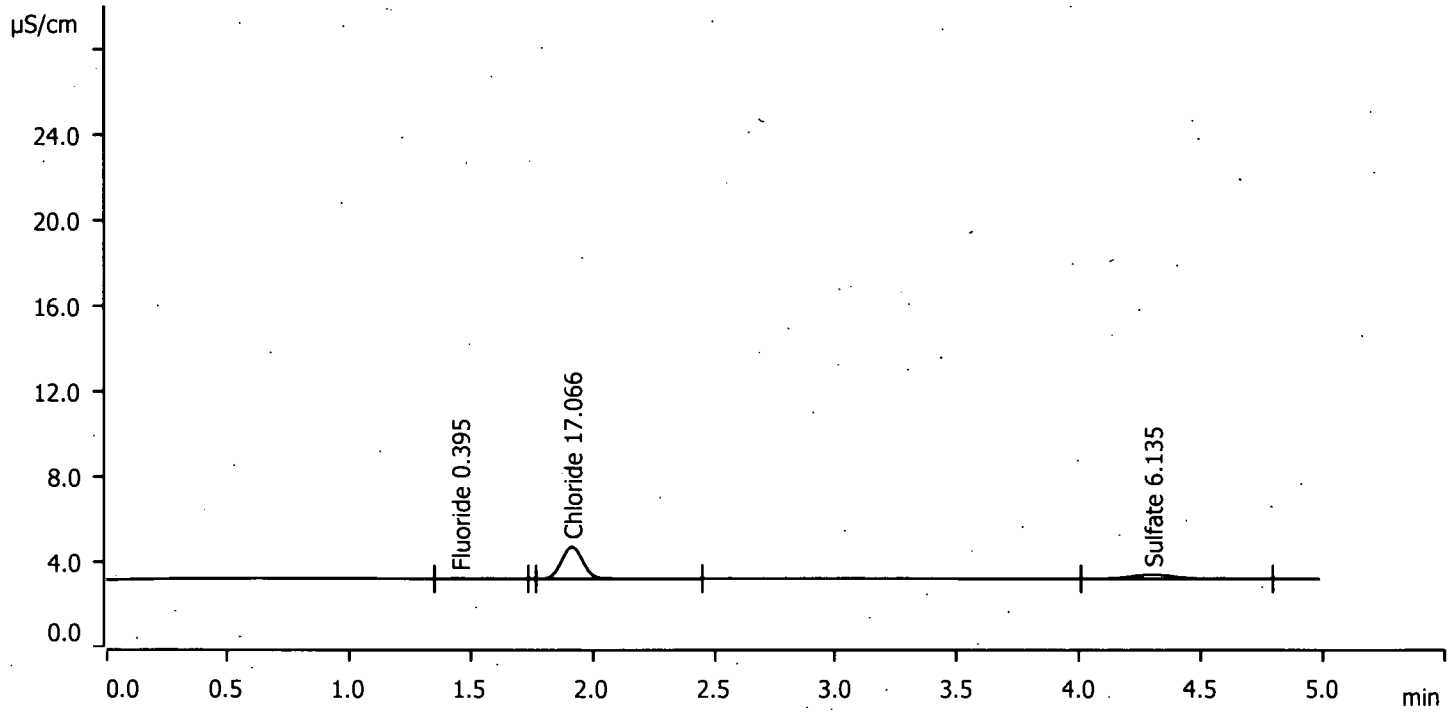
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.156	0.997	Fluoride	BB
2	1.92	0.181	2.017	Chloride	BB
3	2.22	0.216	0.998	Nitrite	BB
4	2.57	0.031	0.956	Bromide	BB
5	2.83	0.222	0.986	Nitrate	BB
6	4.30	0.129	2.005	Sulfate	BB

Sample data

Ident	R2408139-004
Sample type	Sample
Determination start	2024-09-15 13:21:23 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92342
Sample Position	52
Comment 1	300.0 S
Comment 2	

Anions



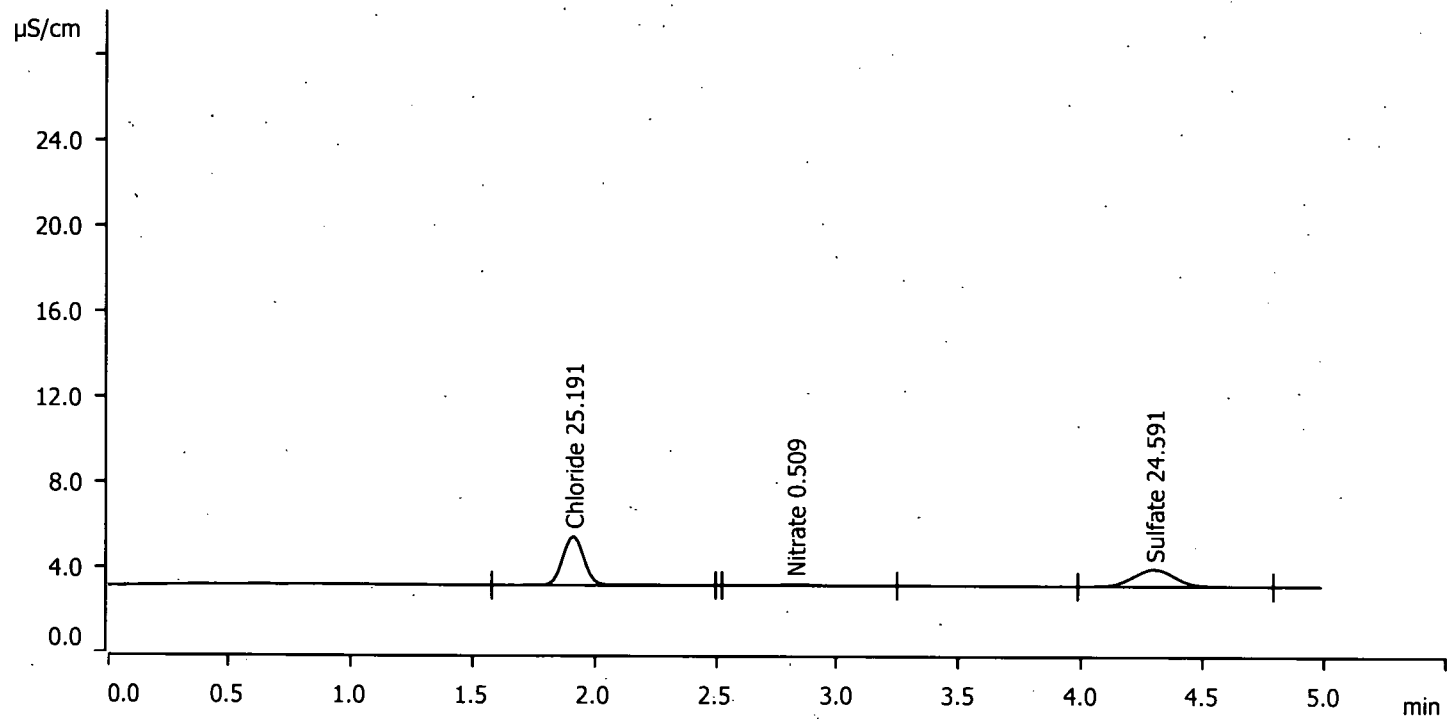
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.46	0.003	0.395	Fluoride	BB
2	1.92	0.152	17.066	Chloride	BB
3	4.30	0.038	6.135	Sulfate	BB

Sample data

Ident	R2408139-005
Sample type	Sample
Determination start	2024-09-15 13:27:39 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92343
Sample Position	53
Comment 1	300.0 S
Comment 2	

Anions



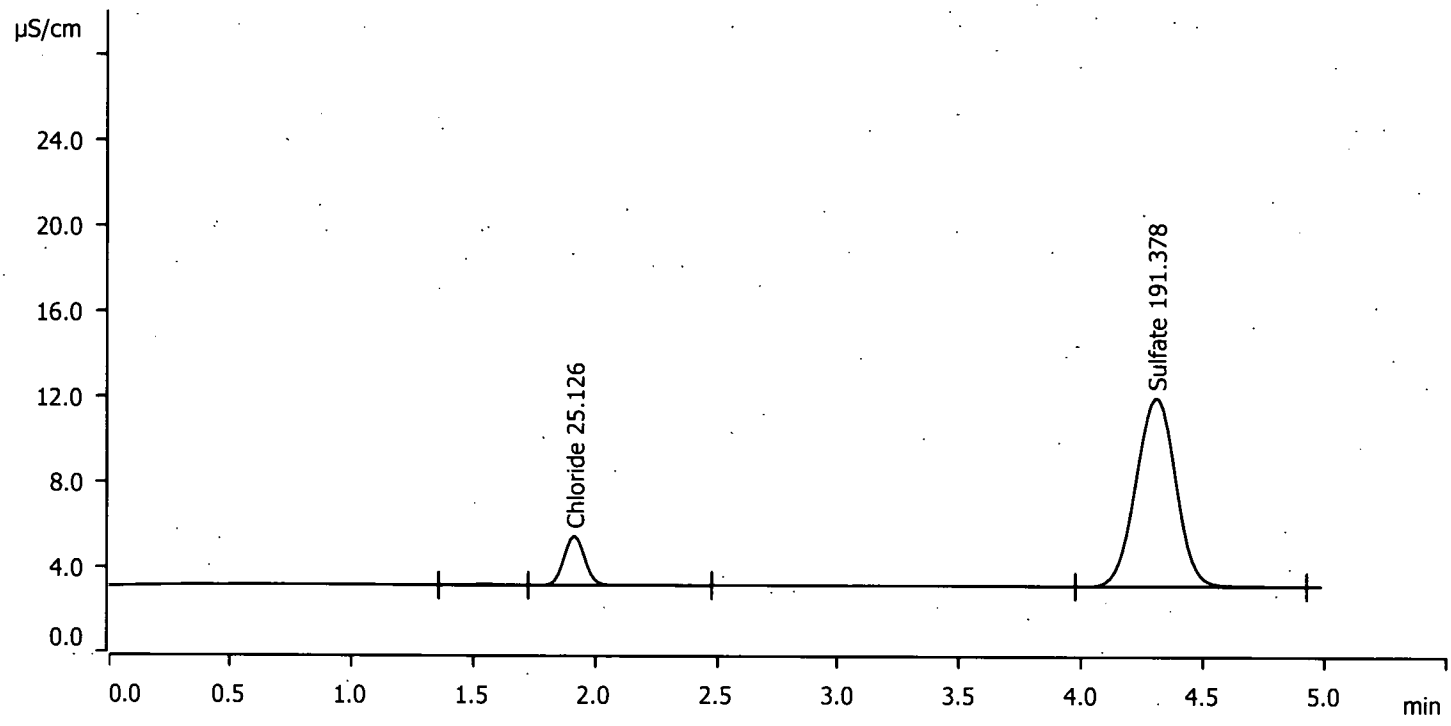
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.231	25.191	Chloride	BB
2	2.83	0.007	0.509	Nitrate	BB
3	4.30	0.159	24.591	Sulfate	BB

Sample data

Ident	R2408139-007 DNR
Sample type	Sample
Determination start	2024-09-15 13:33:54 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92344
Sample Position	54
Comment 1	300.0 S
Comment 2	

Anions



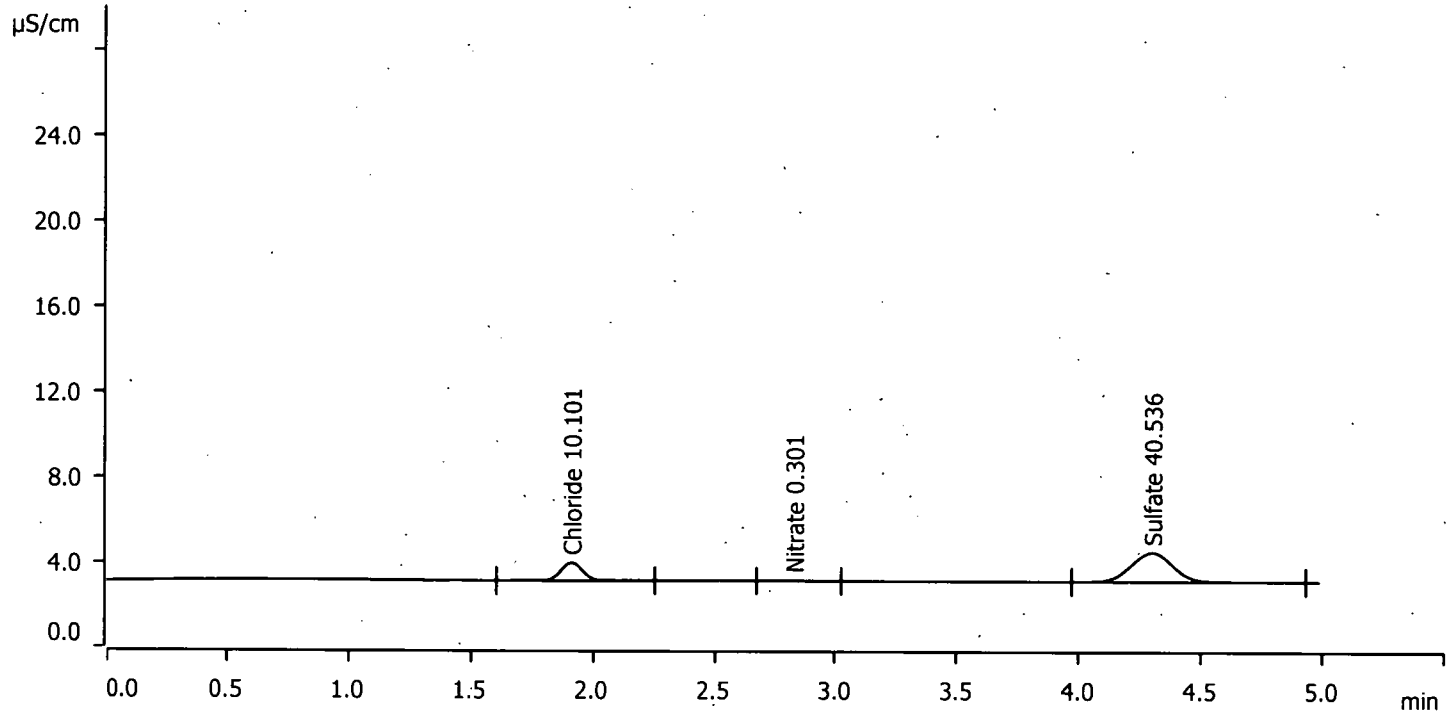
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.92	0.230	25.126	Chloride	BB
3	4.31	1.678	191.378	Sulfate	BB

Sample data

Ident	R2408139-008
Sample type	Sample
Determination start	2024-09-15 13:40:09 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92345
Sample Position	55
Comment 1	300.0 S
Comment 2	

Anions



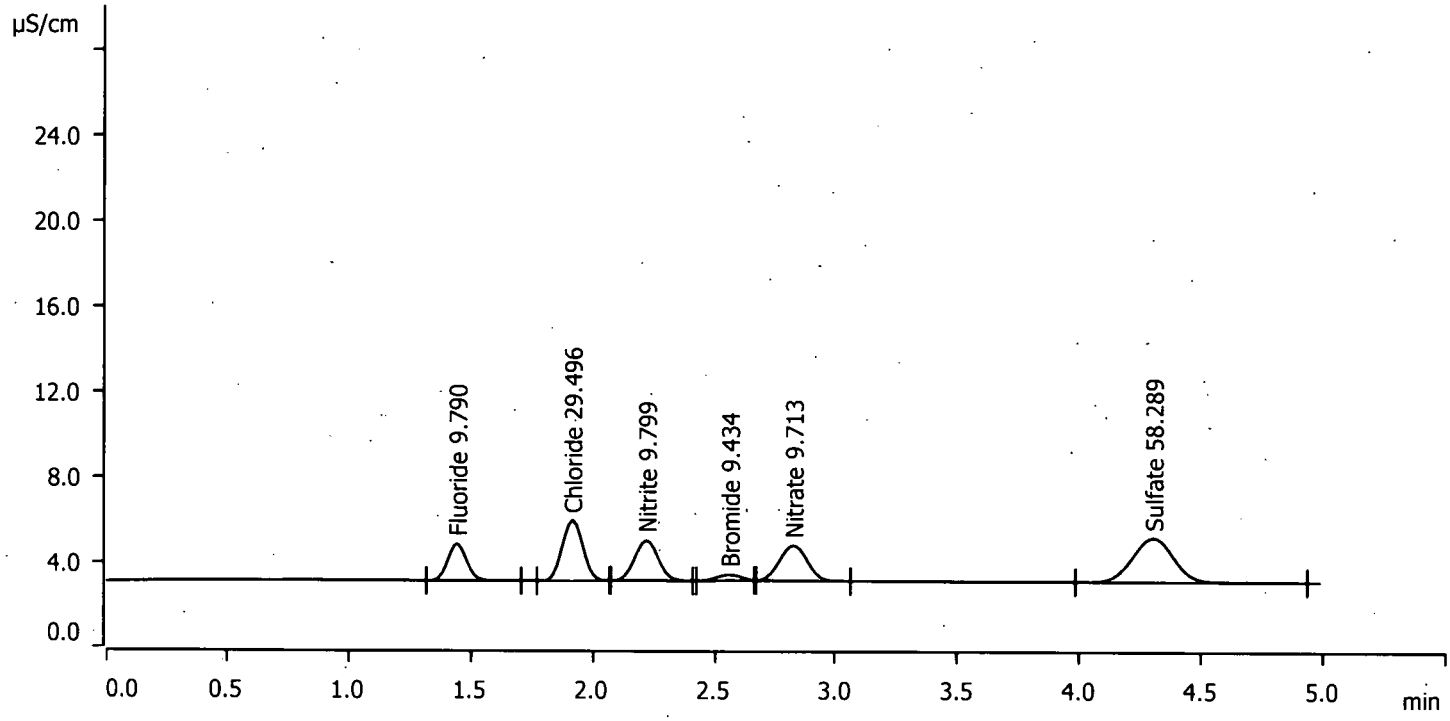
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.087	10.101	Chloride	BB
2	2.83	0.002	0.301	Nitrate	BB
3	4.30	0.272	40.536	Sulfate	BB

Sample data

Ident	R2408139-008 MS!
Sample type	Sample
Determination start	2024-09-15 13:46:24 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92346
Sample Position	56
Comment 1	300.0 S
Comment 2	

Anions



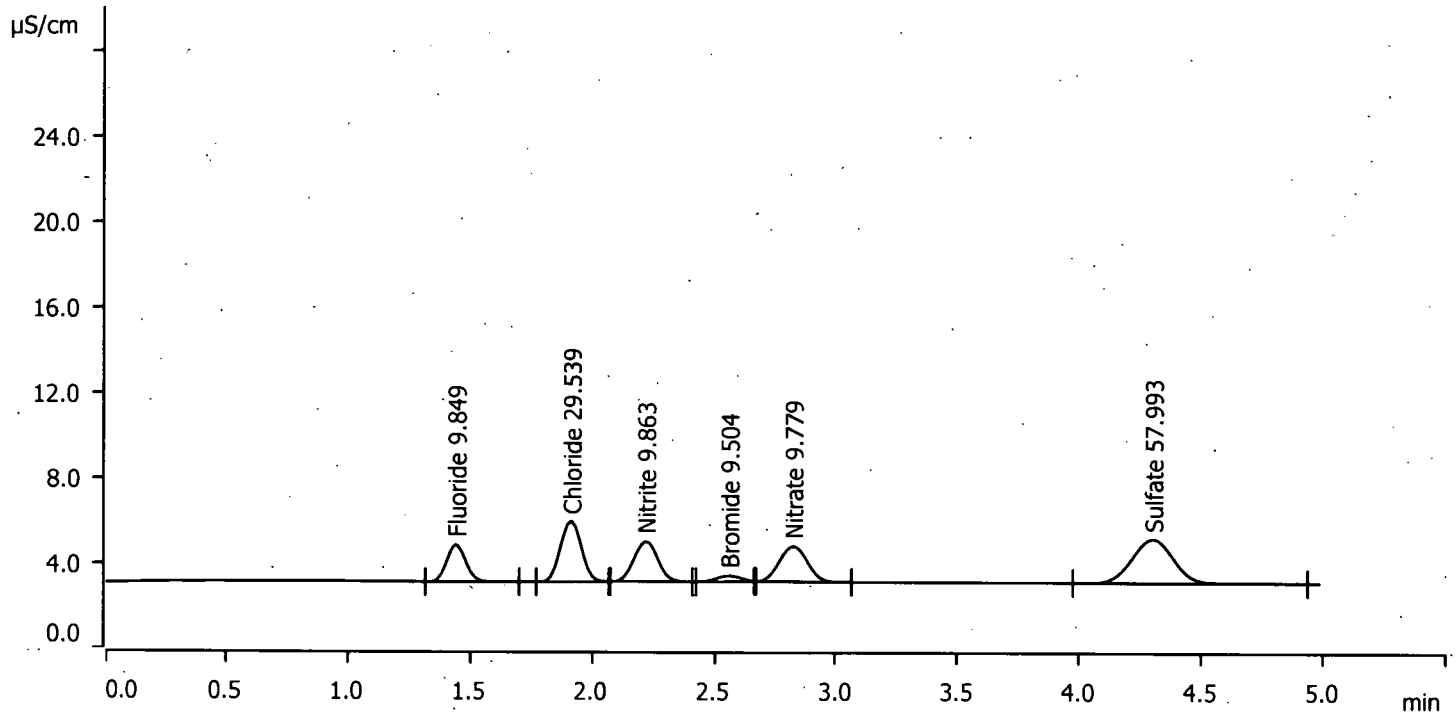
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.153	9.790	Fluoride	BB
2	1.92	0.275	29.496	Chloride	BB
3	2.22	0.211	9.799	Nitrite	BB
4	2.56	0.030	9.434	Bromide	BB
5	2.83	0.218	9.713	Nitrate	BB
6	4.30	0.405	58.289	Sulfate	BB

Sample data

Ident	R2408139-008 MSD!
Sample type	Sample
Determination start	2024-09-15 13:52:40 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92347
Sample Position	57
Comment 1	300.0 S
Comment 2	

Anions



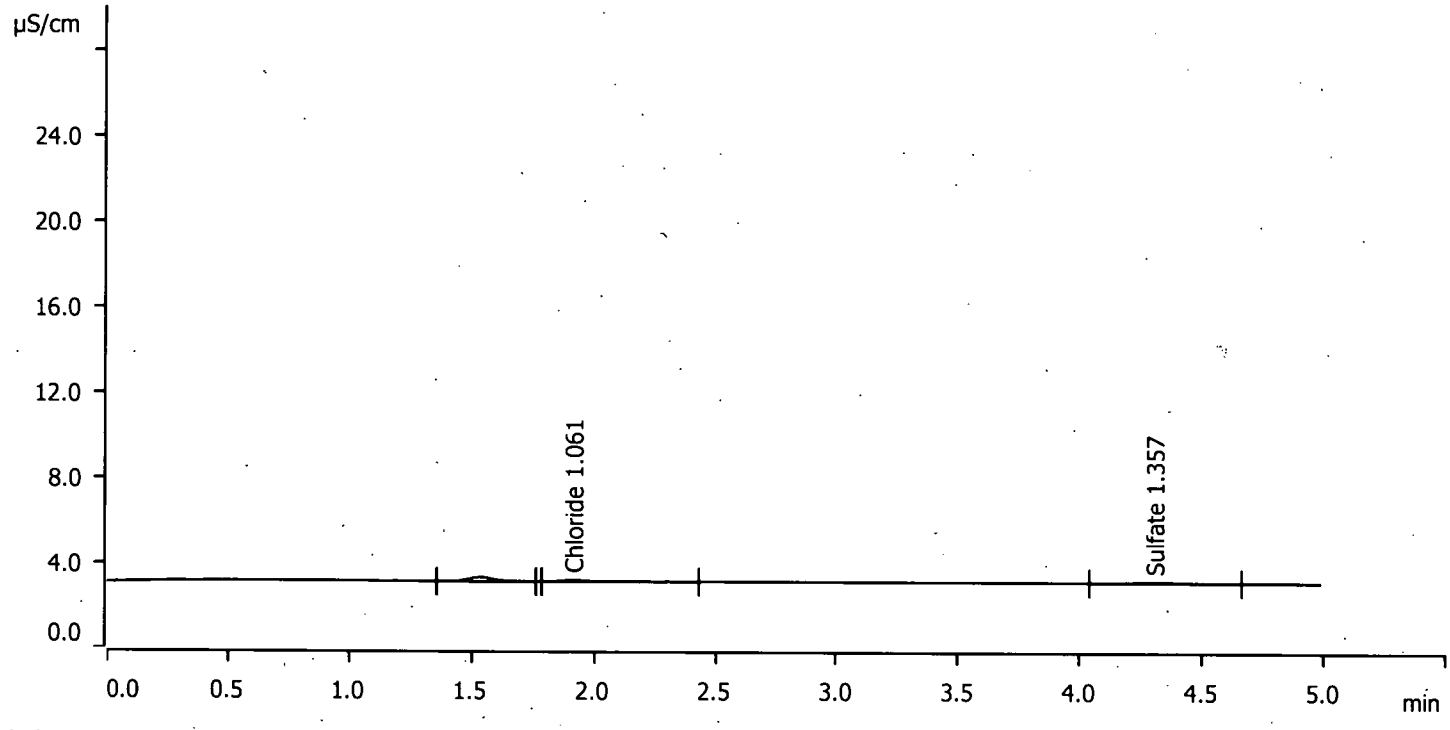
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.154	9.849	Fluoride	BB
2	1.92	0.275	29.539	Chloride	BB
3	2.22	0.213	9.863	Nitrite	BB
4	2.56	0.030	9.504	Bromide	BB
5	2.83	0.220	9.779	Nitrate	BB
6	4.30	0.402	57.993	Sulfate	BB

Sample data

Ident	R2408139-010
Sample type	Sample
Determination start	2024-09-15 13:58:55 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92348
Sample Position	58
Comment 1	300.0 S
Comment 2	

Anions



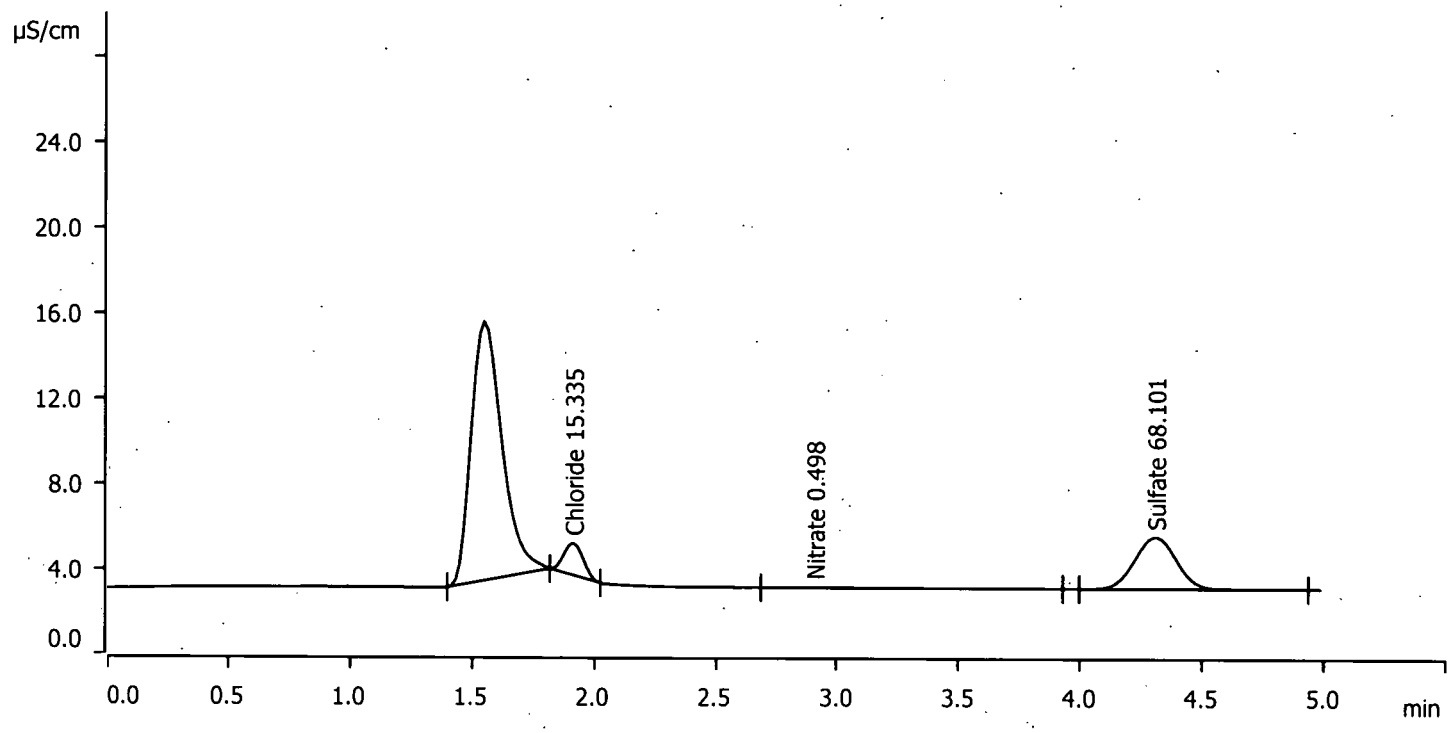
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.92	0.007	1.061	Chloride	BB
3	4.30	0.008	1.357	Sulfate	BB

Sample data

Ident	R2408139-012
Sample type	Sample
Determination start	2024-09-15 14:05:11 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92349
Sample Position	59
Comment 1	300.0 S
Comment 2	

Anions



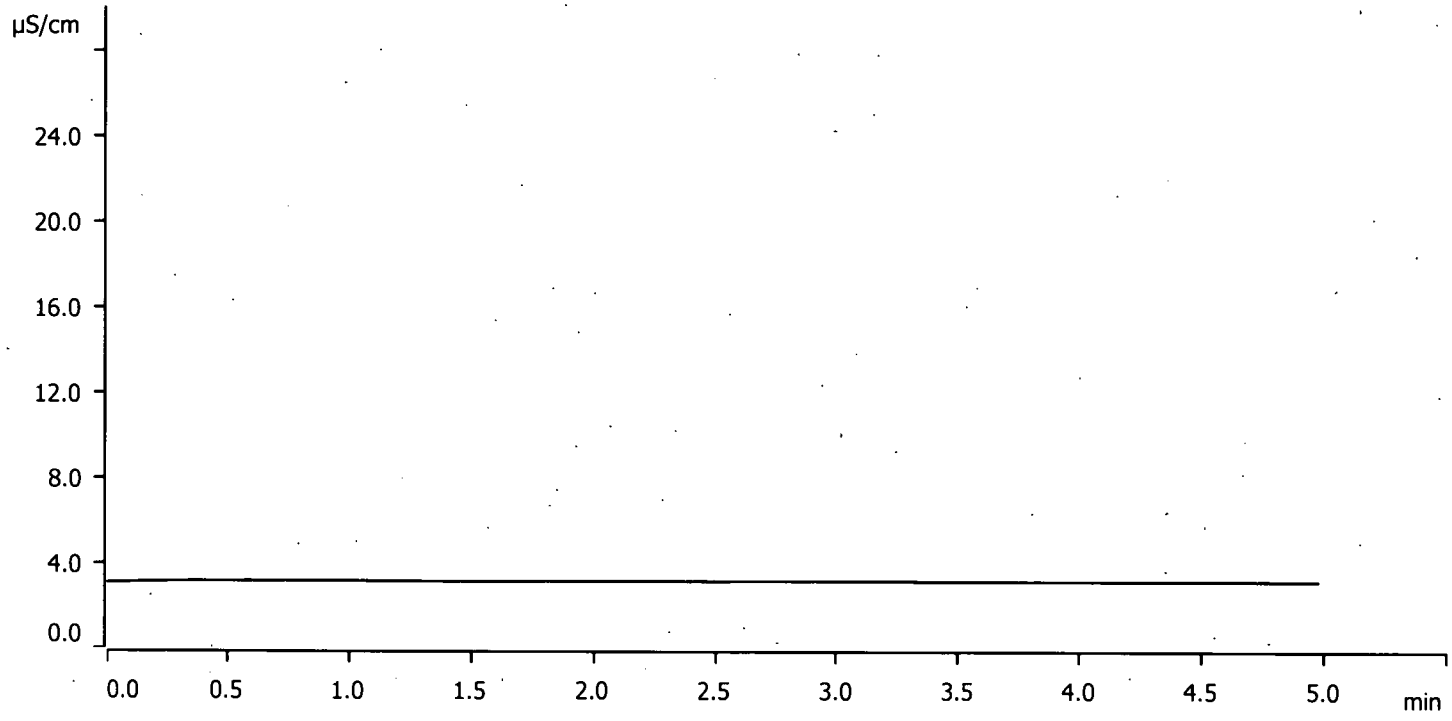
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.92	0.135	15.335	Chloride	BB
3	2.90	0.007	0.498	Nitrate	BBI
4	4.31	0.482	68.101	Sulfate	BB

Sample data

Ident	R2408139-013
Sample type	Sample
Determination start	2024-09-15 14:11:27 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92350
Sample Position	60
Comment 1	300.0 S
Comment 2	

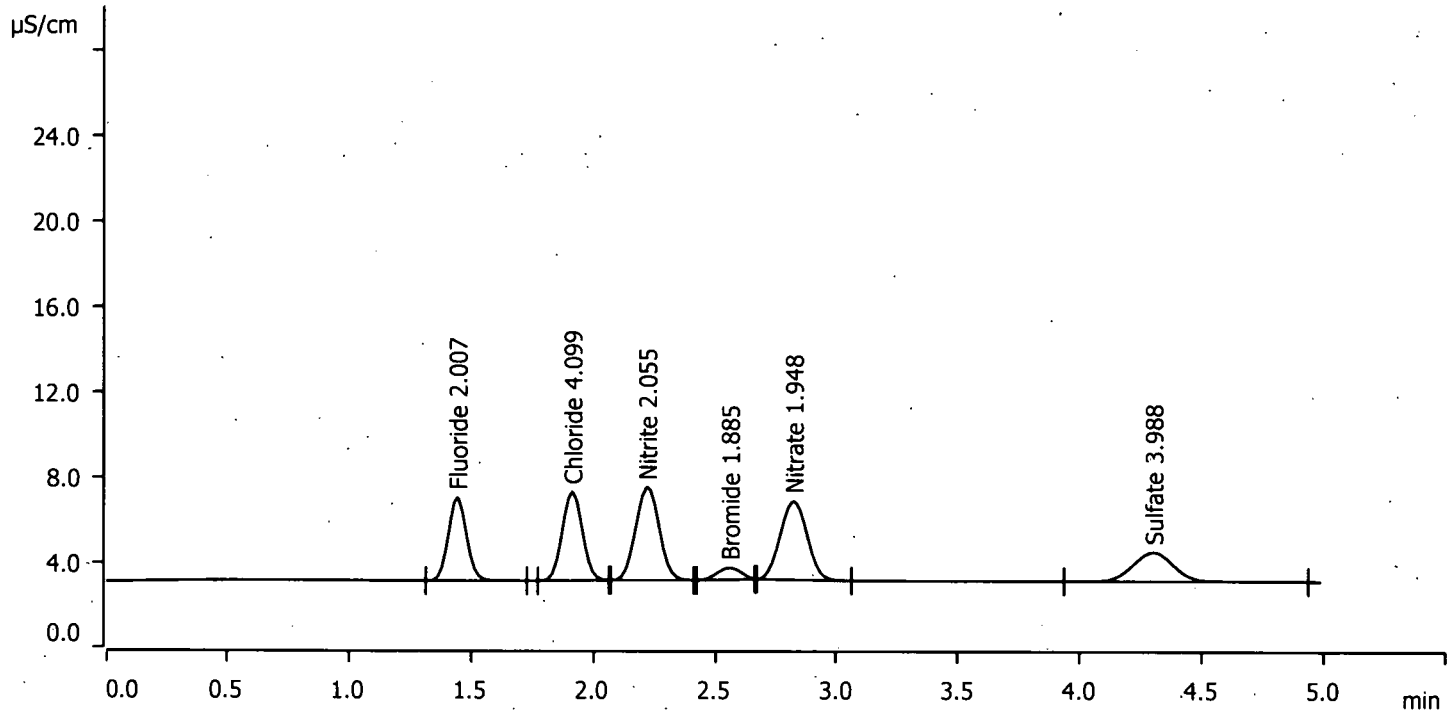
Anions



Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-15 14:17:41 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92351
Sample Position	61
Comment 1	300.0/9056A
Comment 2	

Anions



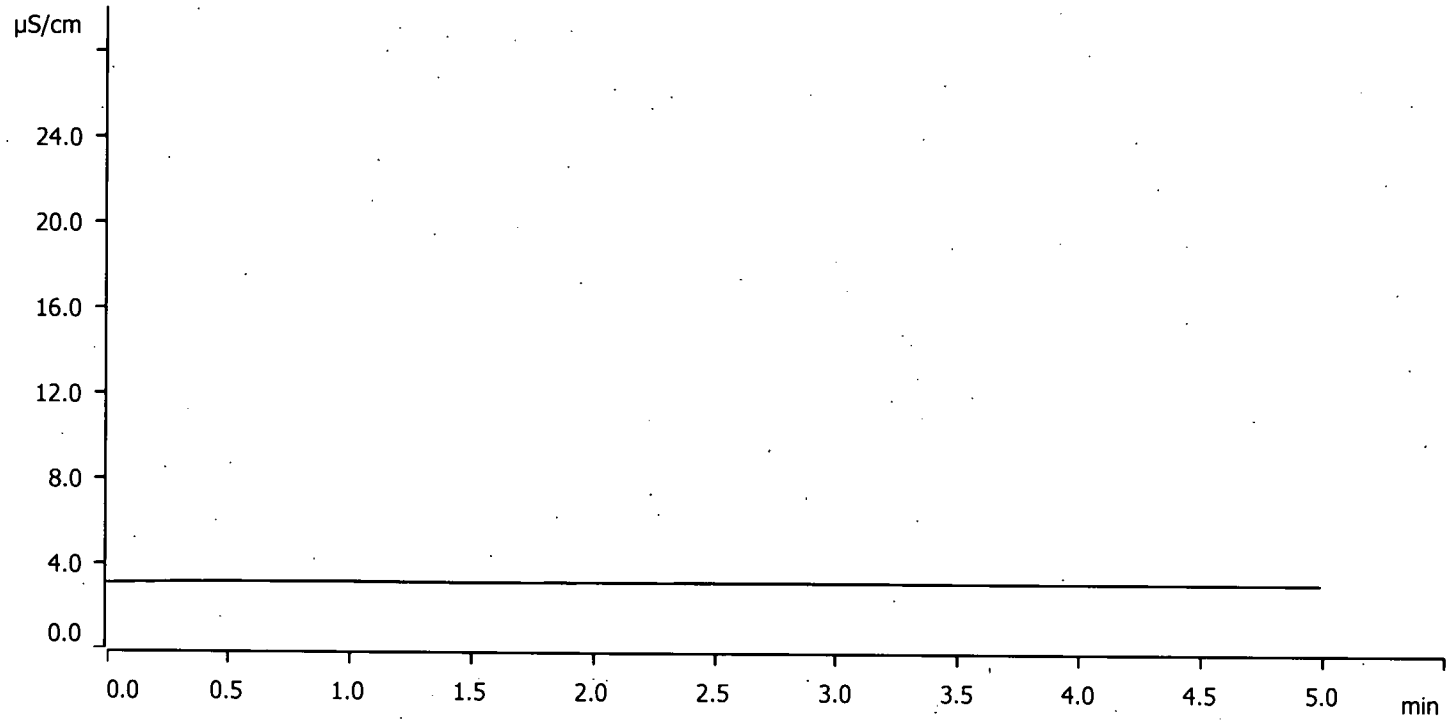
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.336	2.007	Fluoride	BB
2	1.92	0.397	4.099	Chloride	BB
3	2.22	0.475	2.055	Nitrite	BB
4	2.56	0.062	1.885	Bromide	BB
5	2.82	0.472	1.948	Nitrate	BB
6	4.30	0.267	3.988	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-15 14:23:57 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92352
Sample Position	62
Comment 1	300.0/9056A
Comment 2	

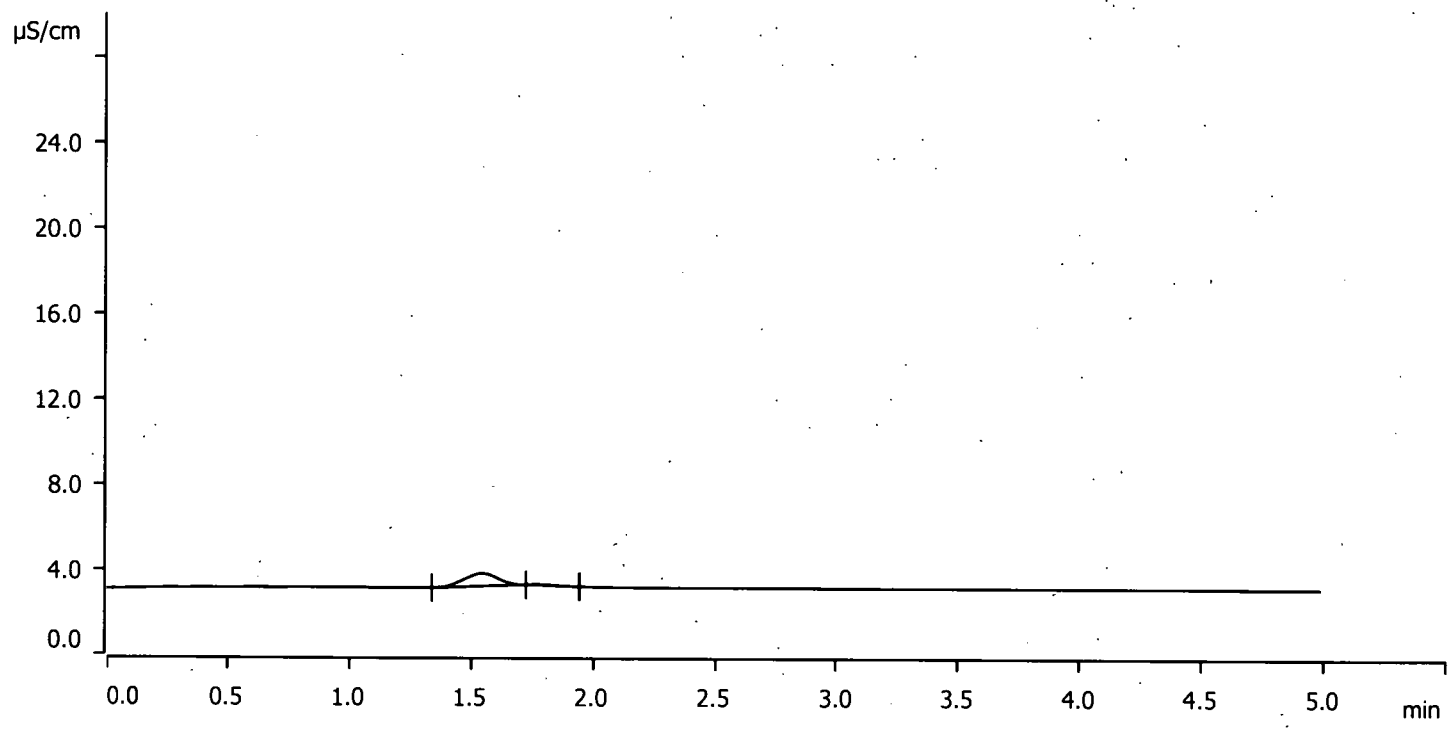
Anions



Sample data

Ident	R2408139-006
Sample type	Sample
Determination start	2024-09-15 14:30:11 UTC-4
Method	10-091224FAST
Dilution	100
Counter	92353
Sample Position	63
Comment 1	300.0 S
Comment 2	FILTERED- OILY/ WAXY MATRIX

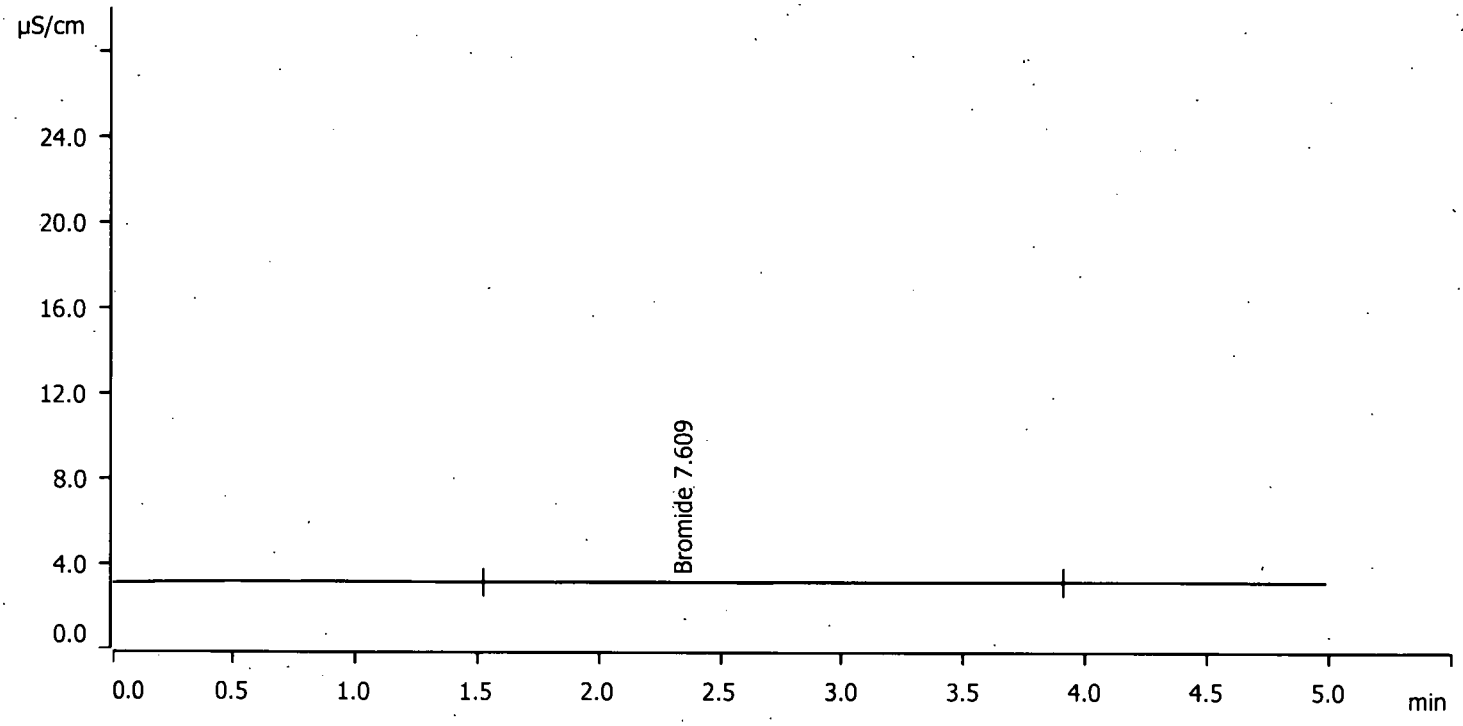
Anions



Sample data

Ident	R2408140-008
Sample type	Sample
Determination start	2024-09-15 14:36:26 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92354
Sample Position	64
Comment 1	300.0 S
Comment 2	

Anions



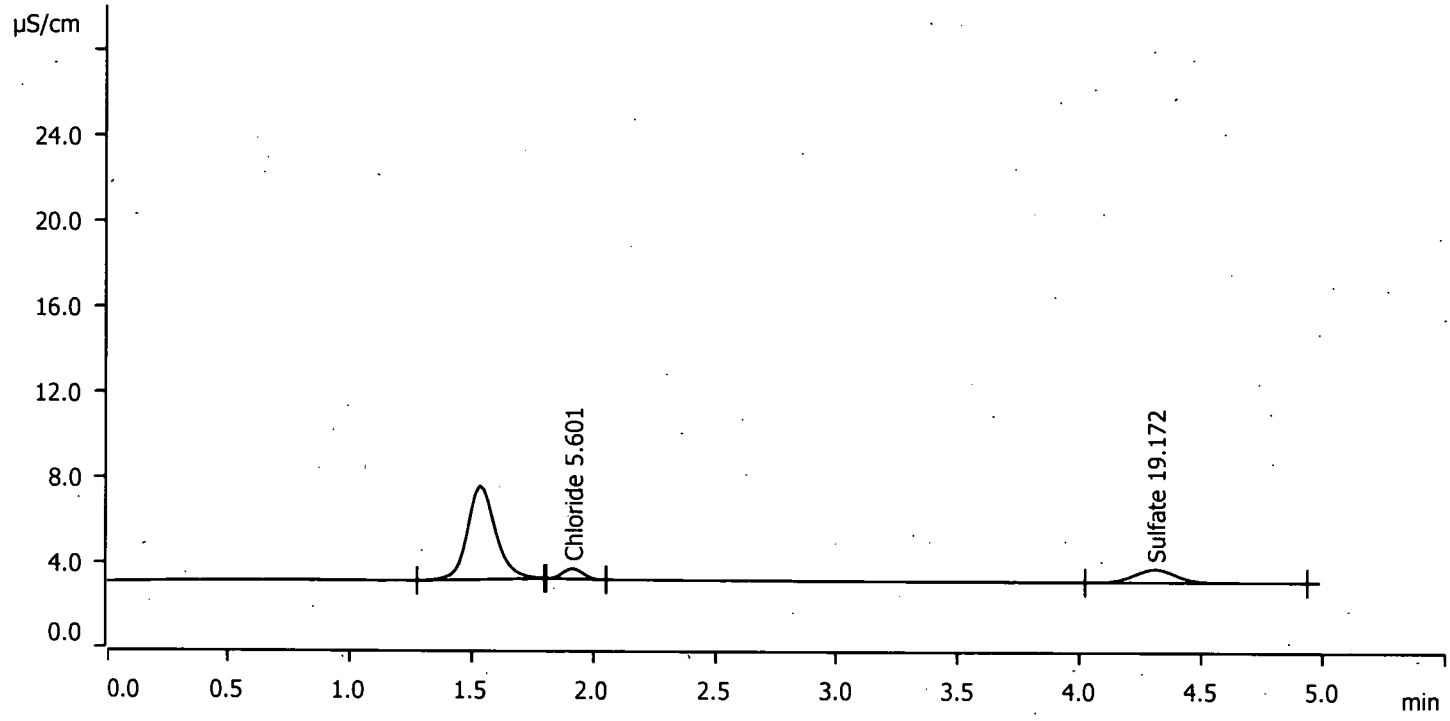
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	2.65	0.024	7.609	Bromide	BB

Sample data

Ident	R2408140-010
Sample type	Sample
Determination start	2024-09-15 14:42:41 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92355
Sample Position	65
Comment 1	300.0 S
Comment 2	

Anions



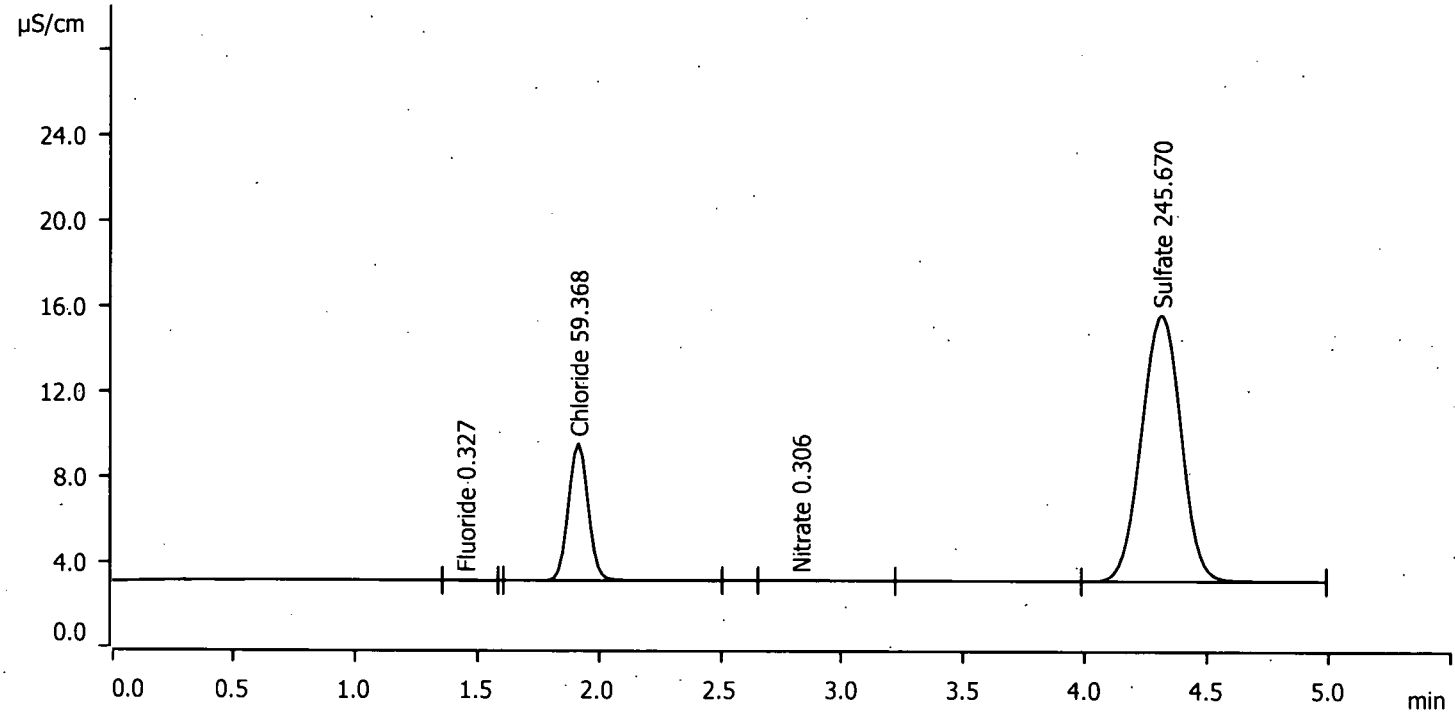
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
2	1.92	0.047	5.601	Chloride	BB
3	4.31	0.123	19.172	Sulfate	BB

Sample data

Ident	R2408140-011 DNR
Sample type	Sample
Determination start	2024-09-15 14:48:56 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92356
Sample Position	66
Comment 1	300.0 S
Comment 2	

Anions



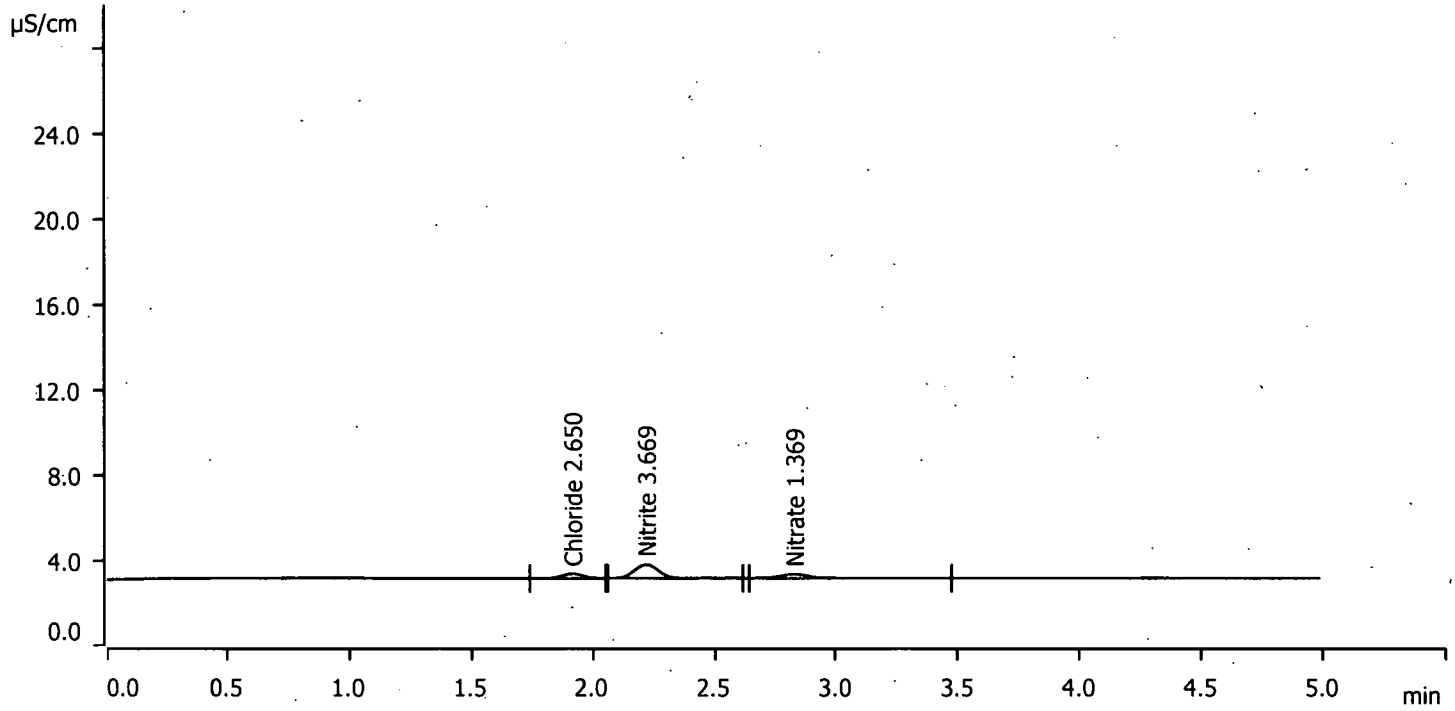
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.002	0.327	Fluoride	BB
2	1.92	0.609	59.368	Chloride	BB
3	2.83	0.003	0.306	Nitrate	BB
4	4.31	2.337	245.670	Sulfate	BB

Sample data

Ident	R2408635-001
Sample type	Sample
Determination start	2024-09-15 14:55:12 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92357
Sample Position	67
Comment 1	300.0 C
Comment 2	

Anions



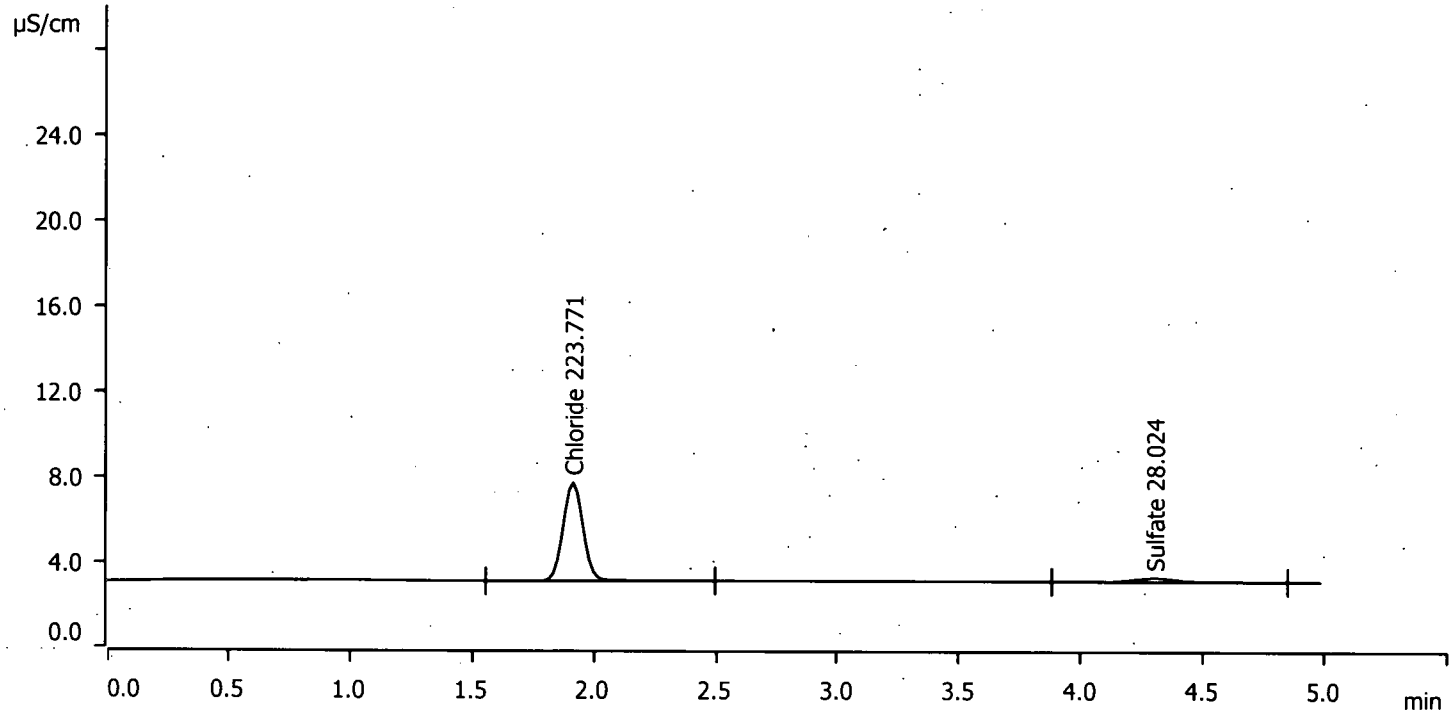
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.021	2.650	Chloride	BB
2	2.22	0.074	3.669	Nitrite	BB
3	2.83	0.025	1.369	Nitrate	BBI

Sample data

Ident	R2408212-010
Sample type	Sample
Determination start	2024-09-15 15:01:27 UTC-4
Method	10-091224FAST
Dilution	50
Counter	92358
Sample Position	68
Comment 1	300.0 C
Comment 2	

Anions



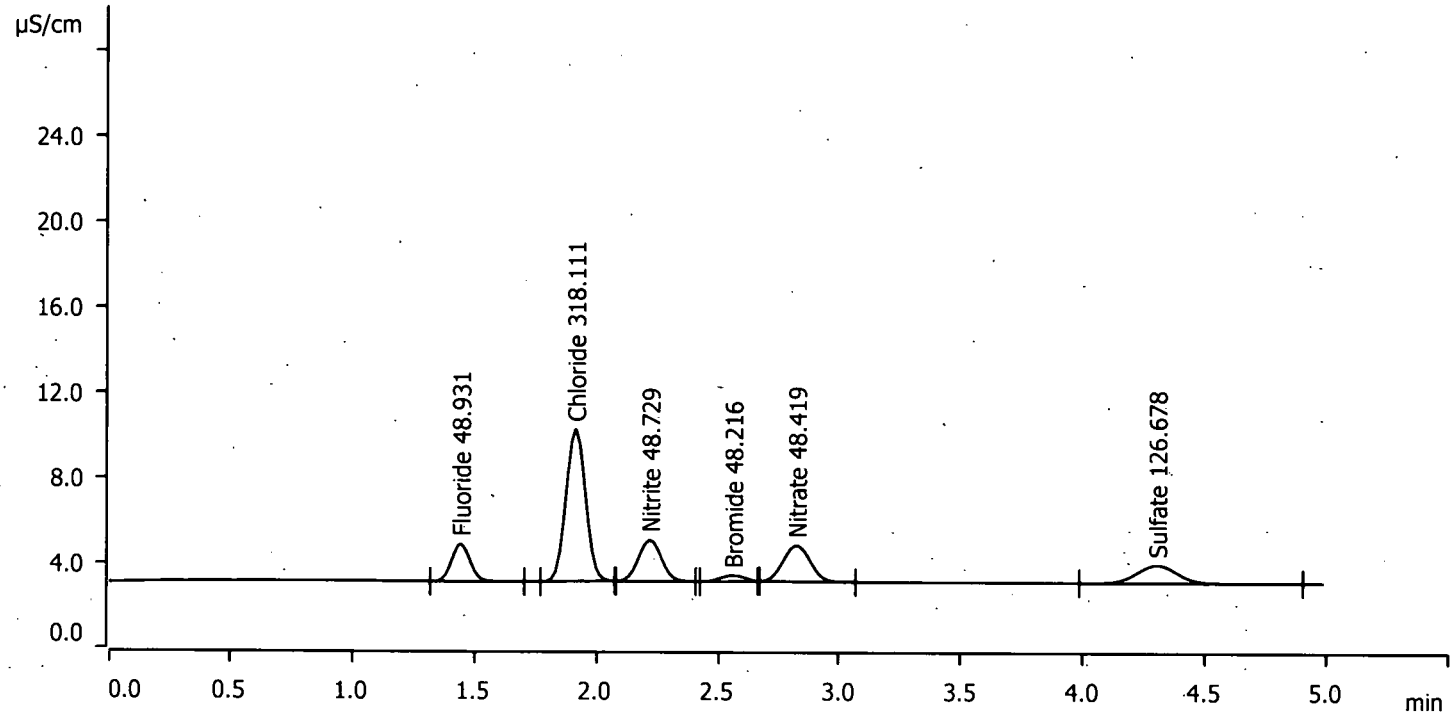
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.439	223.771	Chloride	BB
2	4.30	0.035	28.024	Sulfate	BB

Sample data

Ident	R2408212-010 MS!
Sample type	Sample
Determination start	2024-09-15 15:07:42 UTC-4
Method	10-091224FAST
Dilution	50
Counter	92359
Sample Position	69
Comment 1	300.0 C
Comment 2	

Anions



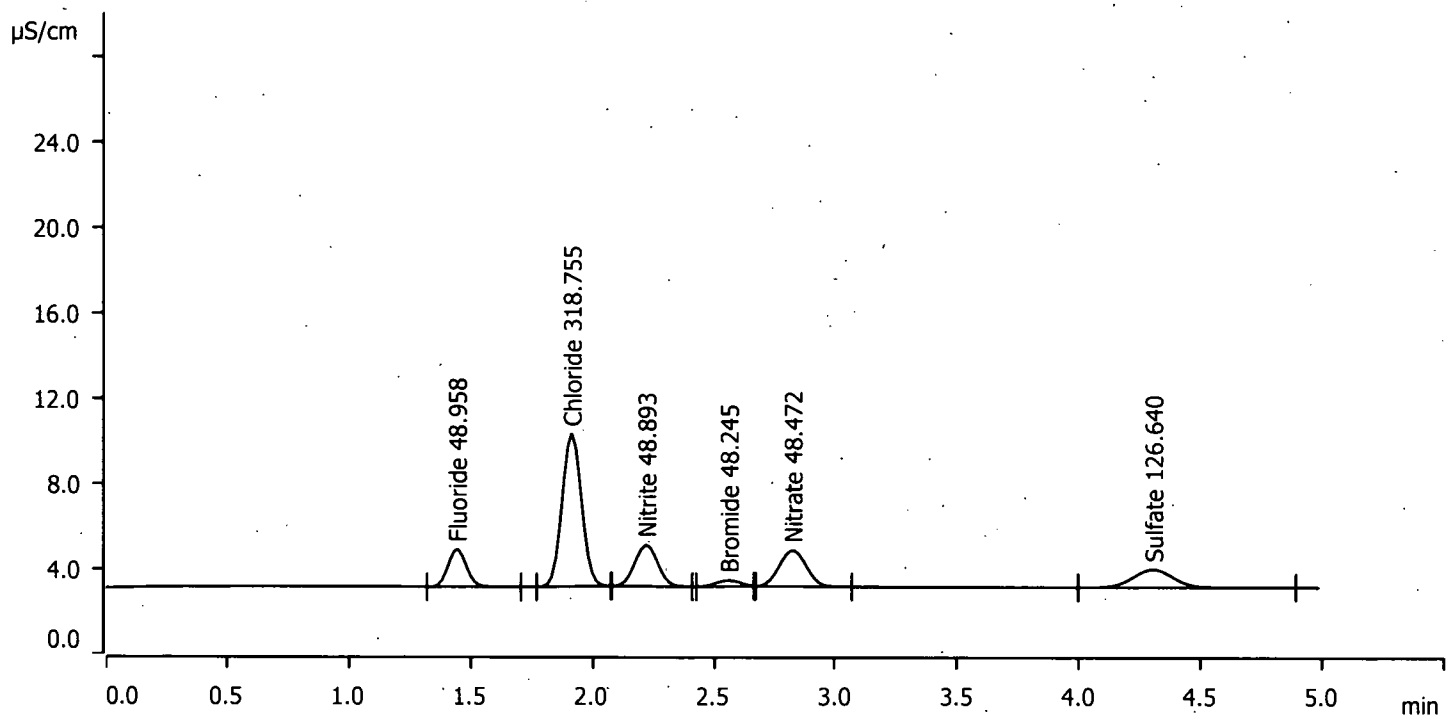
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.153	48.931	Fluoride	BB
2	1.92	0.662	318.111	Chloride	BB
3	2.22	0.210	48.729	Nitrite	BB
4	2.56	0.031	48.216	Bromide	BB
5	2.83	0.217	48.419	Nitrate	BB
6	4.30	0.164	126.678	Sulfate	BB

Sample data

Ident	R2408212-010 MSD!
Sample type	Sample
Determination start	2024-09-15 15:13:57 UTC-4
Method	10-091224FAST
Dilution	50
Counter	92360
Sample Position	70
Comment 1	300.0 C
Comment 2	

Anions



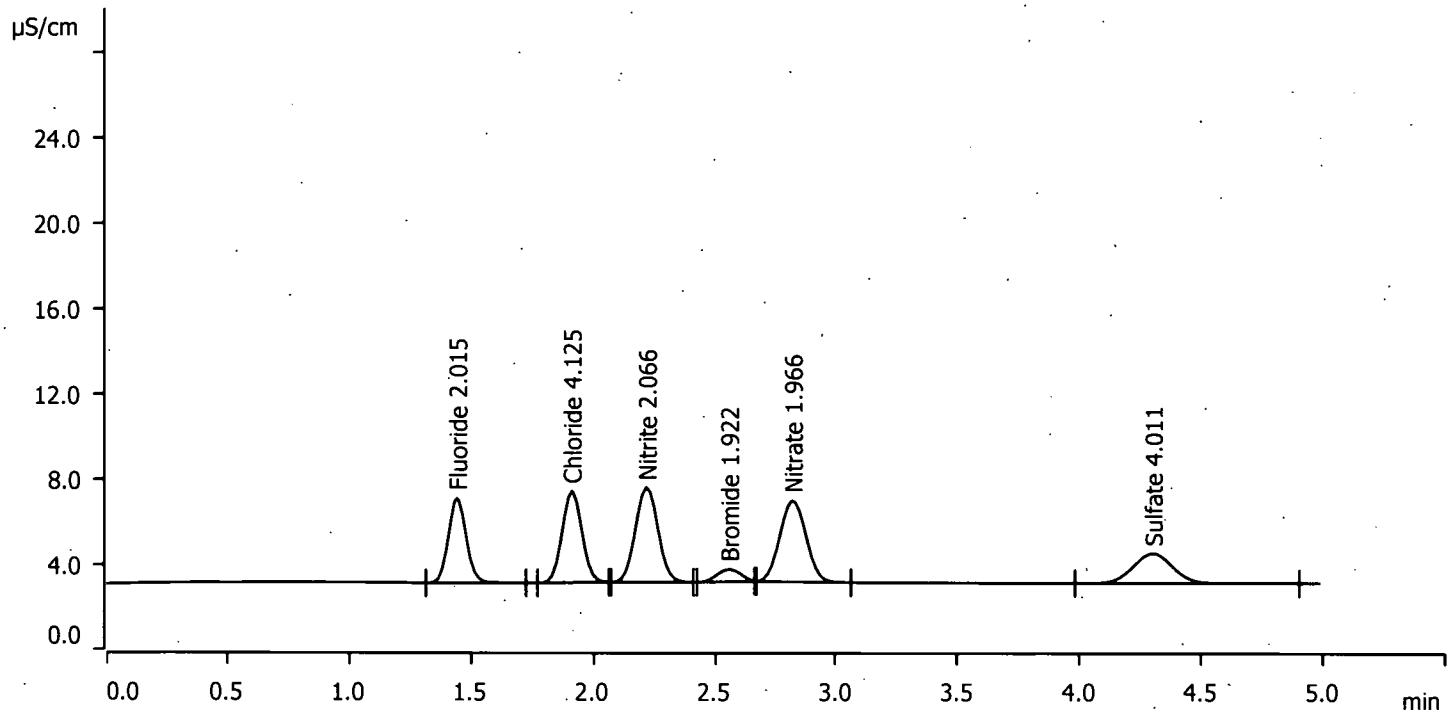
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.153	48.958	Fluoride	BB
2	1.92	0.663	318.755	Chloride	BB
3	2.22	0.211	48.893	Nitrite	BB
4	2.56	0.031	48.245	Bromide	BB
5	2.83	0.217	48.472	Nitrate	BB
6	4.30	0.164	126.640	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-15 15:20:13 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92361
Sample Position	71
Comment 1	300.0/9056A
Comment 2	

Anions



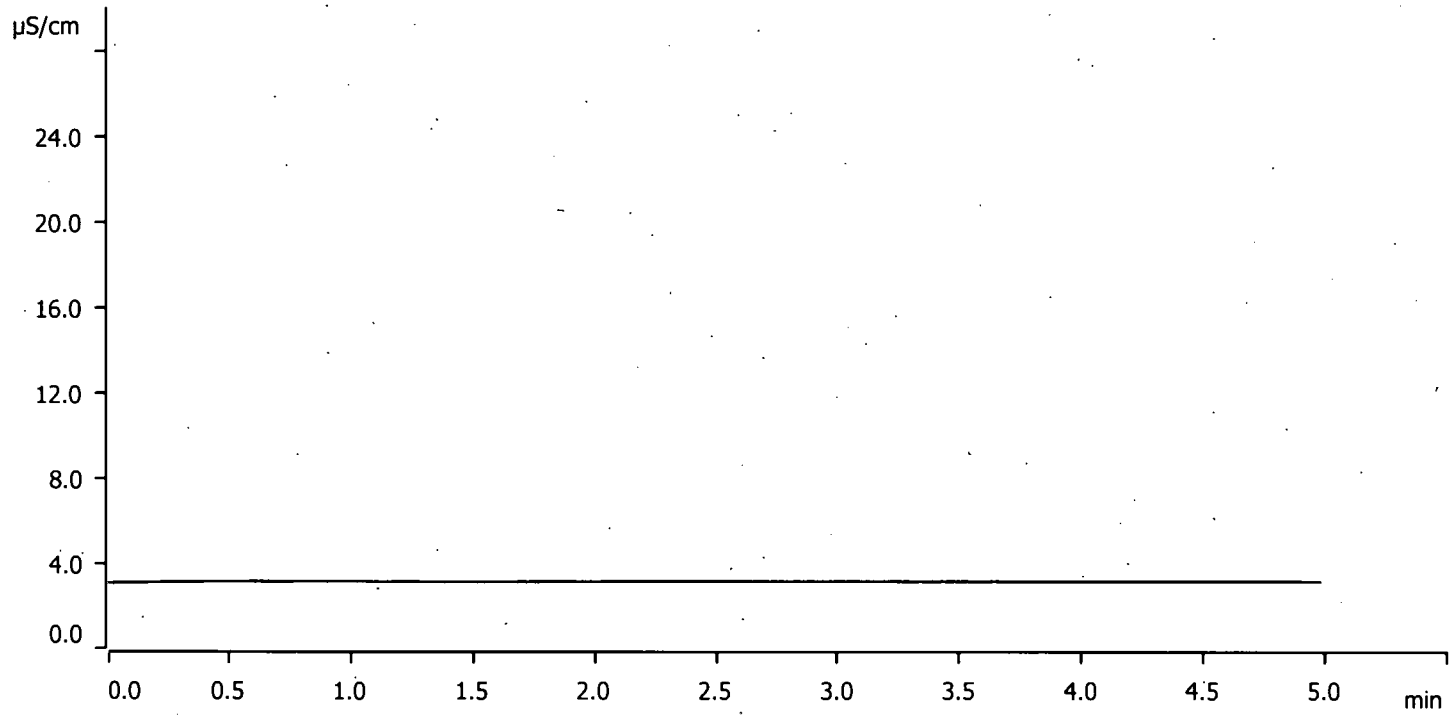
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.338	2.015	Fluoride	BB
2	1.92	0.400	4.125	Chloride	BB
3	2.22	0.478	2.066	Nitrite	BB
4	2.56	0.064	1.922	Bromide	BB
5	2.82	0.477	1.966	Nitrate	BB
6	4.30	0.268	4.011	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-15 15:26:29 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92362
Sample Position	72
Comment 1	300.0/9056A
Comment 2	

Anions



ALS Environmental

1575 Jefferson Road, Building 300, Suite 360, Rochester, New York 14623

Ion Chromatography Cover Sheet

Instrument: **Metrohm IC 930 (IC#10)**

Column: **Dionex IonPac AS22-Fast (Installed 07/25/2024)**

Curve Date: 09/12/24 **Loop size: 25 uL Loop**

Analyst: KW|KAW **Analysis Date:** 9-15-24

Balance ID for Soil Preparation: N|A

Is copy of LCS attached to run? (YES) NO

Method Filename: 10-091224FAST

Standards Prep Dates & Log ID's:

Std Type	*Prep Date*	*Log ID*		*Std Type*	*Prep Date*	*Log ID*
Calibration Intermediate	**08/09/2024**	**236789**		**Working Calibration Stds**	**09/12/2024**	**WC236014B**
LCS / MS Intermediate	**08/09/2024**	**236789**		**Working LCS/MS Standard**	**09/15/2024**	**WC236098K**
ICV Intermediate	**08/09/2024**	**236787**		**Working ICV Standard**	**09/12/2024**	**WC236040I**
CCV Intermediate	**08/09/2024**	**236787**		**Working CCV Standard**	**09/15/2024**	**WC236040K**

Original Retention Times for this method are based on Standard 6 and are as follows:

Fluoride: 1.44	Bromide: 2.56
Chloride: 1.91	Nitrate: 2.82
Nitrite: 2.22	Sulfate: 4.27

Additional Comments: Column Serial Number: 240212573
Linear Range Verification (High Standard) Analyzed: 03/09/2024 – Due Every Six Months

Pipets: Chrome, Bottom
Disposable Pipet ID: (Fisher) 26023005

Eluent Stock (100x): 235121
Suppressor Stock (5x): 235047

ICV / CCV PREP

(A 1:1 dilution of the Reference Intermediate Stock is done daily.)

Analyte	ICV / CCV Intermediate Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst / Date Prepped	Lot ID	Exp. Date	Matrix H_2SO_4 / NaOH / DI	H_2SO_4 / NaOH Lot #
F	236787	4.00	5.0	10.0	2.00	KW 9/3/24	A	9/4/24	DI	—
Cl		8.00			4.00	KW 9/4/24	B	9/5/24	DI	—
NO_2		4.00			2.00	KW 9/5/24	C	9/6/24	DI	—
Br		4.00			2.00	KW 9/6/24	D	9/7/24	DI	—
NO_3		4.00			2.00	KW 9/7/24	E	9/8/24	DI	—
OPO_4		4.00			2.00	KW 9/9/24	F	9/10/24	DI	—
SO_4		8.00			4.00	KW 9/10/24	G	9/11/24	DI	—
						KW 9/11/24	H	9/12/24	DI	—
						KW 9/12/24	I	9/13/24	DI	—
						KW 9/14/24	J	9/15/24	DI	—
						KW 9/15/24	K	9/16/24	DI	—
						KW 9/16/24	L	9/17/24	DI	—
							M			
							N			
							O			
							P			
							Q			
							R			

LCS Prep

(Stocks delivered using volumetric glassware and brought to volume with DI. LCS expires after 7 days; if NO_2 is needed, LCS must be prepared daily.)

(MS prepared fresh daily using same volume of intermediate stock added to 100mLs sample. MS not prepared volumetrically.)

Analyte	Calibration Intermediate Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst / Date Prepped	Lot ID	Exp. Date	Matrix H_2SO_4 / NaOH / DI	H_2SO_4 / NaOH Lot #
F	236789	50	2.0	200	1.0	KW 9/3/24	A	9/10/24	DI	—
Cl		100			2.0	KW 9/4/24	B	9/11/24	DI	—
NO_2		50			1.0	KW 9/5/24	C	9/12/24	DI	—
Br		50			1.0	KW 9/6/24	D	9/13/24	DI	
NO_3		50			1.0	KW 9/7/24	E	9/14/24	DI	—
OPO_4		50			1.0	KW 9/9/24	F	9/16/24	DI	—
SO_4		100			2.0	KW 9/10/24	G	9/17/24	DI	—
						KW 9/11/24	H	9/18/24	DI	—
						KW 9/12/24	I	9/19/24	DI	—
						KW 9/14/24	J	9/21/24	DI	—
						KW 9/15/24	K	9/22/24	DI	—
						KW 9/16/24	L	9/23/24	DI	—
							M			
							N			
							O			
							P			
							Q			
							R			

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 854121 **Method/Testcode:** 300.0/Chloride

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2411717-01	Chloride	CCV		Water	4.11 mg/L	10 mL	4.11 mg/L	1					9/15/24 17:24	N	IV
KQ2411717-01	Sulfate	CCV		Water	4.05 mg/L	10 mL	4.05 mg/L	1					9/15/24 17:24	N	IV
KQ2411717-02	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 17:30	N	IV
KQ2411717-02	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 17:30	N	IV
KQ2411717-03	Chloride	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 17:30	N	IV
KQ2411717-03	Sulfate	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 17:30	N	IV
KQ2411717-04	Chloride	LCS		Water	2.02 mg/L	10 mL	2.02 mg/L	1	0.05	0.20	101		9/15/24 17:37	N	IV
KQ2411717-04	Sulfate	LCS		Water	2.01 mg/L	10 mL	2.01 mg/L	1	0.04	0.20	101		9/15/24 17:37	N	IV
K2409013-001	Chloride	N/A		Water	280.96 mg/L	10 mL	281 mg/L	50	3	10			9/15/24 17:48	N	IV
K2409013-003	Chloride	N/A		Water	58.06 mg/L	10 mL	58.1 mg/L	10	0.5	2.0			9/15/24 17:54	N	IV
K2409013-006	Chloride	N/A		Water	64.92 mg/L	10 mL	64.9 mg/L	10	0.5	2.0			9/15/24 18:00	N	IV
K2408139-007	Sulfate	N/A		Water	200.90 mg/L	10 mL	201 mg/L	40	1.6	8.0			9/15/24 18:07	N	IV
K2408140-011	Sulfate	N/A		Water	264.39 mg/L	10 mL	264 mg/L	40	1.6	8.0			9/15/24 18:13	N	IV
K2408253-015	Chloride	N/A		Water	3.11 mg/L	10 mL	3.1 mg/L	10	0.5	2.0			9/15/24 18:19	N	IV
KQ2411717-09	Chloride	MS	R2408253-015	Water	22.36 mg/L	10 mL	22.4 mg/L	10	0.5	2.0	96		9/15/24 18:25	N	IV
KQ2411717-10	Chloride	DMS	R2408253-015	Water	22.53 mg/L	10 mL	22.5 mg/L	10	0.5	2.0	97	<1	9/15/24 18:32	N	IV
K2408253-017	Chloride	N/A		Water	2.30 mg/L	10 mL	2.3 mg/L	10	0.5	2.0			9/15/24 18:38	N	IV
KQ2411717-05	Chloride	CCV		Water	4.13 mg/L	10 mL	4.13 mg/L	1					9/15/24 18:44	N	IV
KQ2411717-05	Sulfate	CCV		Water	4.01 mg/L	10 mL	4.01 mg/L	1					9/15/24 18:44	N	IV
KQ2411717-06	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 18:50	N	IV
KQ2411717-06	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 18:50	N	IV
K2408253-019	Chloride	N/A		Water	1.71 mg/L	10 mL	2.0 mg/L U	10	0.5	2.0			9/15/24 19:26	N	IV
K2408253-021	Chloride	N/A		Water	2.27 mg/L	10 mL	2.3 mg/L	10	0.5	2.0			9/15/24 19:32	N	IV
K2408253-023	Chloride	N/A		Water	2.39 mg/L	10 mL	2.4 mg/L	10	0.5	2.0			9/15/24 19:39	N	IV
K2408253-027	Chloride	N/A		Water	1.96 mg/L	10 mL	2.0 mg/L U	10	0.5	2.0			9/15/24 19:45	N	IV
K2408253-029	Chloride	N/A		Water	27.30 mg/L	10 mL	27.3 mg/L	10	0.5	2.0			9/15/24 19:51	N	IV
K2408253-031	Chloride	N/A		Water	15.32 mg/L	10 mL	15.3 mg/L	10	0.5	2.0			9/15/24 19:58	N	IV
K2408254-013	Chloride	N/A		Water	11.27 mg/L	10 mL	11.3 mg/L	10	0.5	2.0			9/15/24 20:04	N	IV
KQ2411717-11	Chloride	MS	R2408254-013	Water	30.53 mg/L	10 mL	30.5 mg/L	10	0.5	2.0	96		9/15/24 20:11	N	IV
KQ2411717-12	Chloride	DMS	R2408254-013	Water	30.33 mg/L	10 mL	30.3 mg/L	10	0.5	2.0	95	<1	9/15/24 20:17	N	IV
K2408254-015	Chloride	N/A		Water	19.65 mg/L	10 mL	19.6 mg/L	10	0.5	2.0			9/15/24 20:24	N	IV
KQ2411717-08	Chloride	CCV		Water	4.10 mg/L	10 mL	4.10 mg/L	1					9/15/24 20:31	N	IV
KQ2411717-08	Sulfate	CCV		Water	3.97 mg/L	10 mL	3.97 mg/L	1					9/15/24 20:31	N	IV
KQ2411717-07	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 20:38	N	IV
KQ2411717-07	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/15/24 20:38	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 854122 **Method/Testcode:** 300.0/Chloride

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2411718-01	Chloride	CCV		Water	4.10 mg/L	10 mL	4.10 mg/L	1					9/15/24 20:31	N	IV
KQ2411718-02	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 20:38	N	IV
KQ2411718-03	Chloride	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 20:38	N	IV
KQ2411718-04	Chloride	LCS		Water	2.03 mg/L	10 mL	2.03 mg/L	1	0.05	0.20	101		9/15/24 20:46	N	IV
K2408254-017	Chloride	N/A		Water	20.31 mg/L	10 mL	20.3 mg/L	10	0.5	2.0			9/15/24 20:54	N	IV
K2408254-019	Chloride	N/A		Water	22.91 mg/L	10 mL	22.9 mg/L	10	0.5	2.0			9/15/24 21:00	N	IV
K2408254-021	Chloride	N/A		Water	14.84 mg/L	10 mL	14.8 mg/L	10	0.5	2.0			9/15/24 21:06	N	IV
K2408253-025	Chloride	N/A		Water	4.08 mg/L	10 mL	4.1 mg/L	10	0.5	2.0			9/15/24 21:12	N	IV
K2408253-033	Chloride	N/A		Water	15.08 mg/L	10 mL	15.1 mg/L	10	0.5	2.0			9/15/24 21:19	N	IV
K2408253-035	Chloride	N/A		Water	9.28 mg/L	10 mL	9.3 mg/L	10	0.5	2.0			9/15/24 21:25	N	IV
KQ2411718-09	Chloride	MS	R2408253-035	Water	28.50 mg/L	10 mL	28.5 mg/L	10	0.5	2.0	96		9/15/24 21:31	N	IV
KQ2411718-10	Chloride	DMS	R2408253-035	Water	28.41 mg/L	10 mL	28.4 mg/L	10	0.5	2.0	96	<1	9/15/24 21:37	N	IV
K2408253-037	Chloride	N/A		Water	0.67 mg/L	10 mL	2.0 mg/L U	10	0.5	2.0			9/15/24 21:44	N	IV
KQ2411718-05	Chloride	CCV		Water	4.14 mg/L	10 mL	4.14 mg/L	1					9/15/24 21:50	N	IV
KQ2411718-06	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 21:56	N	IV
K2408253-039	Chloride	N/A		Water	12.07 mg/L	10 mL	12.1 mg/L	10	0.5	2.0			9/15/24 22:02	N	IV
K2408254-023	Chloride	N/A		Water	19.61 mg/L	10 mL	19.6 mg/L	10	0.5	2.0			9/15/24 22:09	N	IV
K2408254-025	Chloride	N/A		Water	11.23 mg/L	10 mL	11.2 mg/L	10	0.5	2.0			9/15/24 22:15	N	IV
K2408254-027	Chloride	N/A		Water	6.01 mg/L	10 mL	6.0 mg/L	10	0.5	2.0			9/15/24 22:21	N	IV
K2408254-029	Chloride	N/A		Water	24.53 mg/L	10 mL	24.5 mg/L	10	0.5	2.0			9/15/24 22:27	N	IV
K2408254-031	Chloride	N/A		Water	3.82 mg/L	10 mL	3.8 mg/L	10	0.5	2.0			9/15/24 22:34	N	IV
K2408254-033	Chloride	N/A		Water	10.47 mg/L	10 mL	10.5 mg/L	10	0.5	2.0			9/15/24 22:40	N	IV
KQ2411718-11	Chloride	MS	R2408254-033	Water	29.69 mg/L	10 mL	29.7 mg/L	10	0.5	2.0	96		9/15/24 22:46	N	IV
KQ2411718-12	Chloride	DMS	R2408254-033	Water	29.74 mg/L	10 mL	29.7 mg/L	10	0.5	2.0	96	<1	9/15/24 22:53	N	IV
K2408254-035	Chloride	N/A		Water	12.96 mg/L	10 mL	13.0 mg/L	10	0.5	2.0			9/15/24 22:59	N	IV
KQ2411718-08	Chloride	CCV		Water	4.13 mg/L	10 mL	4.13 mg/L	1					9/15/24 23:05	N	IV
KQ2411718-07	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 23:11	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 854123 **Method/Testcode:** 300.0/Chloride

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2411719-01	Chloride	CCV		Water	4.13 mg/L	10 mL	4.13 mg/L	1					9/15/24 23:05	N	IV
KQ2411719-02	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 23:11	N	IV
KQ2411719-03	Chloride	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/15/24 23:11	N	IV
KQ2411719-04	Chloride	LCS		Water	2.03 mg/L	10 mL	2.03 mg/L	1	0.05	0.20	101		9/15/24 23:18	N	IV
K2408254-037	Chloride	N/A		Water	23.82 mg/L	10 mL	23.8 mg/L	10	0.5	2.0			9/15/24 23:24	N	IV
K2408254-039	Chloride	N/A		Water	15.75 mg/L	10 mL	15.7 mg/L	10	0.5	2.0			9/15/24 23:30	N	IV
K2408253-001	Chloride	N/A		Water	12.63 mg/L	10 mL	12.6 mg/L	10	0.5	2.0			9/15/24 23:36	Y	IV
KQ2411719-09	Chloride	MS	R2408253-001	Water	31.76 mg/L	10 mL	31.8 mg/L	10	0.5	2.0	96		9/15/24 23:43	N	IV
KQ2411719-10	Chloride	DMS	R2408253-001	Water	31.76 mg/L	10 mL	31.8 mg/L	10	0.5	2.0	96	<1	9/15/24 23:49	N	IV
K2408253-003	Chloride	N/A		Water	76.10 mg/L	10 mL	76.1 mg/L	10	0.5	2.0			9/15/24 23:55	N	IV
K2408253-005	Chloride	N/A		Water	7.30 mg/L	10 mL	7.3 mg/L	10	0.5	2.0			9/16/24 00:01	N	IV
K2408253-007	Chloride	N/A		Water	11.63 mg/L	10 mL	11.6 mg/L	10	0.5	2.0			9/16/24 00:08	N	IV
K2408253-009	Chloride	N/A		Water	69.10 mg/L	10 mL	69.1 mg/L	10	0.5	2.0			9/16/24 00:14	N	IV
KQ2411719-05	Chloride	CCV		Water	4.15 mg/L	10 mL	4.15 mg/L	1					9/16/24 00:20	N	IV
KQ2411719-06	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/16/24 00:26	N	IV
K2408253-011	Chloride	N/A		Water	21.48 mg/L	10 mL	21.5 mg/L	10	0.5	2.0			9/16/24 00:33	N	IV
K2408253-013	Chloride	N/A		Water	0.00 mg/L	10 mL	2.0 mg/L U	10	0.5	2.0			9/16/24 00:39	N	IV
K2408254-001	Chloride	N/A		Water	16.19 mg/L	10 mL	16.2 mg/L	10	0.5	2.0			9/16/24 00:45	N	IV
K2408254-003	Chloride	N/A		Water	23.80 mg/L	10 mL	23.8 mg/L	10	0.5	2.0			9/16/24 00:51	N	IV
K2408254-005	Chloride	N/A		Water	15.22 mg/L	10 mL	15.2 mg/L	10	0.5	2.0			9/16/24 00:58	N	IV
K2408254-007	Chloride	N/A		Water	17.79 mg/L	10 mL	17.8 mg/L	10	0.5	2.0			9/16/24 01:04	N	IV
K2408254-009	Chloride	N/A		Water	13.64 mg/L	10 mL	13.6 mg/L	10	0.5	2.0			9/16/24 01:10	Y	IV
KQ2411719-11	Chloride	MS	R2408254-009	Water	32.73 mg/L	10 mL	32.7 mg/L	10	0.5	2.0	95		9/16/24 01:16	N	IV
KQ2411719-12	Chloride	DMS	R2408254-009	Water	32.88 mg/L	10 mL	32.9 mg/L	10	0.5	2.0	96	<1	9/16/24 01:23	N	IV
K2408254-011	Chloride	N/A		Water	0.00 mg/L	10 mL	2.0 mg/L U	10	0.5	2.0			9/16/24 01:29	N	IV
KQ2411719-08	Chloride	CCV		Water	4.13 mg/L	10 mL	4.13 mg/L	1					9/16/24 01:35	N	IV
KQ2411719-07	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/16/24 01:41	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 854124 **Method/Testcode:** 300.0/Chloride

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ2411720-01	Chloride	CCV		Water	4.13 mg/L	10 mL	4.13 mg/L	1					9/16/24 01:35	N	IV
RQ2411720-01	Fluoride, undistilled	CCV		Water	2.05 mg/L	10 mL	2.05 mg/L	1					9/16/24 01:35	N	IV
RQ2411720-01	Sulfate	CCV		Water	4.07 mg/L	10 mL	4.07 mg/L	1					9/16/24 01:35	N	IV
RQ2411720-02	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/16/24 01:41	N	IV
RQ2411720-02	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			9/16/24 01:41	N	IV
RQ2411720-02	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/16/24 01:41	N	IV
RQ2411720-03	Chloride	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/16/24 01:41	N	IV
RQ2411720-03	Fluoride, undistilled	MB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			9/16/24 01:41	N	IV
RQ2411720-03	Sulfate	MB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/16/24 01:41	N	IV
RQ2411720-04	Chloride	LCS		Water	2.04 mg/L	10 mL	2.04 mg/L	1	0.05	0.20	102		9/16/24 01:48	N	IV
RQ2411720-04	Fluoride, undistilled	LCS		Water	1.04 mg/L	10 mL	1.04 mg/L	1	0.010	0.10	104		9/16/24 01:48	N	IV
RQ2411720-04	Sulfate	LCS		Water	2.08 mg/L	10 mL	2.08 mg/L	1	0.04	0.20	104		9/16/24 01:48	N	IV
R2408259-001	Fluoride, undistilled	N/A		Water	0.06 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			9/16/24 01:54	N	IV
R2408259-001	Chloride	N/A		Water	12.33 mg/L	10 mL	12.3 mg/L	10	0.5	2.0			9/16/24 02:00	N	IV
R2408259-003	Fluoride, undistilled	N/A		Water	0.07 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			9/16/24 02:06	N	IV
R2408259-003	Sulfate	N/A		Water	7.33 mg/L	10 mL	7.33 mg/L	1	0.04	0.20			9/16/24 02:06	N	IV
R2408259-003	Chloride	N/A		Water	33.88 mg/L	10 mL	33.9 mg/L	10	0.5	2.0			9/16/24 02:13	N	IV
R2408259-005	Fluoride, undistilled	N/A		Water	0.08 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			9/16/24 02:19	N	IV
R2408259-005	Sulfate	N/A		Water	8.03 mg/L	10 mL	8.03 mg/L	1	0.04	0.20			9/16/24 02:19	N	IV
R2408259-005	Chloride	N/A		Water	54.08 mg/L	10 mL	54.1 mg/L	10	0.5	2.0			9/16/24 02:25	N	IV
R2408259-007	Fluoride, undistilled	N/A		Water	0.08 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			9/16/24 02:31	N	IV
R2408259-007	Sulfate	N/A		Water	9.10 mg/L	10 mL	9.10 mg/L	1	0.04	0.20			9/16/24 02:31	N	IV
R2408259-007	Chloride	N/A		Water	55.19 mg/L	10 mL	55.2 mg/L	10	0.5	2.0			9/16/24 02:38	N	IV
R2408337-001	Chloride	N/A		Water	3.30 mg/L	10 mL	3.3 mg/L	10	0.5	2.0			9/16/24 02:44	N	IV
R2408337-001	Sulfate	N/A		Water	3.15 mg/L	10 mL	3.2 mg/L	10	0.4	2.0			9/16/24 02:44	N	IV
RQ2411720-05	Chloride	CCV		Water	4.16 mg/L	10 mL	4.16 mg/L	1					9/16/24 02:50	N	IV
RQ2411720-05	Fluoride, undistilled	CCV		Water	2.03 mg/L	10 mL	2.03 mg/L	1					9/16/24 02:50	N	IV
RQ2411720-05	Sulfate	CCV		Water	4.04 mg/L	10 mL	4.04 mg/L	1					9/16/24 02:50	N	IV
RQ2411720-06	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/16/24 02:56	N	IV
RQ2411720-06	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			9/16/24 02:56	N	IV
RQ2411720-06	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/16/24 02:56	N	IV
R2408337-003	Chloride	N/A		Water	3.85 mg/L	10 mL	3.9 mg/L	10	0.5	2.0			9/16/24 03:03	N	IV
R2408337-003	Sulfate	N/A		Water	3.37 mg/L	10 mL	3.4 mg/L	10	0.4	2.0			9/16/24 03:03	N	IV
RQ2411720-09	Chloride	MS	R2408337-003	Water	23.31 mg/L	10 mL	23.3 mg/L	10	0.5	2.0	97		9/16/24 03:09	N	IV
RQ2411720-09	Sulfate	MS	R2408337-003	Water	22.85 mg/L	10 mL	22.8 mg/L	10	0.4	2.0	97		9/16/24 03:09	N	IV
RQ2411720-10	Chloride	DMS	R2408337-003	Water	23.44 mg/L	10 mL	23.4 mg/L	10	0.5	2.0	98	<1	9/16/24 03:15	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-10 **Analyst:** KAWONG **Analysis Lot:** 854124 **Method/Testcode:** 300.0/SO4

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2411720-10	Sulfate	DMS	R2408337-003	Water	22.91 mg/L	10 mL	22.9 mg/L	10	0.4	2.0	98	<1	9/16/24 03:15	N	IV
K2408337-005	Chloride	N/A		Water	0.70 mg/L	10 mL	2.0 mg/L U	10	0.5	2.0			9/16/24 03:21	Y	IV
K2408337-005	Sulfate	N/A		Water	0.99 mg/L	10 mL	2.0 mg/L U	10	0.4	2.0			9/16/24 03:21	Y	IV
KQ2411720-11	Chloride	MS	R2408337-005	Water	20.16 mg/L	10 mL	20.2 mg/L	10	0.5	2.0	101		9/16/24 03:28	N	IV
KQ2411720-11	Sulfate	MS	R2408337-005	Water	20.63 mg/L	10 mL	20.6 mg/L	10	0.4	2.0	103		9/16/24 03:28	N	IV
KQ2411720-12	Chloride	DMS	R2408337-005	Water	20.28 mg/L	10 mL	20.3 mg/L	10	0.5	2.0	101	<1	9/16/24 03:34	N	IV
KQ2411720-12	Sulfate	DMS	R2408337-005	Water	20.73 mg/L	10 mL	20.7 mg/L	10	0.4	2.0	104	<1	9/16/24 03:34	N	IV
K2408341-001	Fluoride, undistilled	N/A		Water	0.07 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			9/16/24 03:40	N	IV
K2408341-001	Sulfate	N/A		Water	5.12 mg/L	10 mL	5.12 mg/L	1	0.04	0.20			9/16/24 03:40	N	IV
K2408341-001	Chloride	N/A		Water	10.59 mg/L	10 mL	10.6 mg/L	10	0.5	2.0			9/16/24 03:46	N	IV
K2408341-003	Fluoride, undistilled	N/A		Water	0.10 mg/L	10 mL	0.10 mg/L	1	0.010	0.10			9/16/24 03:53	N	IV
K2408341-003	Sulfate	N/A		Water	5.84 mg/L	10 mL	5.84 mg/L	1	0.04	0.20			9/16/24 03:53	N	IV
K2408341-003	Chloride	N/A		Water	27.05 mg/L	10 mL	27.0 mg/L	10	0.5	2.0			9/16/24 03:59	N	IV
KQ2411720-08	Chloride	CCV		Water	4.16 mg/L	10 mL	4.16 mg/L	1					9/16/24 04:05	N	IV
KQ2411720-08	Fluoride, undistilled	CCV		Water	2.03 mg/L	10 mL	2.03 mg/L	1					9/16/24 04:05	N	IV
KQ2411720-08	Sulfate	CCV		Water	4.03 mg/L	10 mL	4.03 mg/L	1					9/16/24 04:05	N	IV
KQ2411720-07	Chloride	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.05	0.20			9/16/24 04:11	N	IV
KQ2411720-07	Fluoride, undistilled	CCB		Water	0.00 mg/L	10 mL	0.10 mg/L U	1	0.010	0.10			9/16/24 04:11	N	IV
KQ2411720-07	Sulfate	CCB		Water	0.00 mg/L	10 mL	0.20 mg/L U	1	0.04	0.20			9/16/24 04:11	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Determination overview

IC10 pipette: Chrome/Bottom 300.0/9056A 091524 KL

	Method name	Determination start	Position	Ident	Dilution	Info 1	Info 2
1	10-091224FAST	2024-09-15 17:24:40 UTC-4	1	CCV	1	300.0/9056A	
2	10-091224FAST	2024-09-15 17:30:57 UTC-4	2	CCB	1	300.0/9056A	854121
3	10-091224FAST	2024-09-15 17:37:11 UTC-4	3	LCS	1	300.0/9056A	
4	10-091224FAST	2024-09-15 17:48:15 UTC-4	4	R2409013-001	50	300.0 C	
5	10-091224FAST	2024-09-15 17:54:33 UTC-4	5	R2409013-003	10	300.0 C	
6	10-091224FAST	2024-09-15 18:00:49 UTC-4	6	R2409013-006	10	300.0 C	
7	10-091224FAST	2024-09-15 18:07:04 UTC-4	7	R2408139-007	40	300.0 S	
8	10-091224FAST	2024-09-15 18:13:20 UTC-4	8	R2408140-011	40	300.0 S	
9	10-091224FAST	2024-09-15 18:19:35 UTC-4	9	R2408253-015	10	300.0 C	
10	10-091224FAST	2024-09-15 18:25:51 UTC-4	10	R2408253-015 MS	10	300.0 C	
11	10-091224FAST	2024-09-15 18:32:07 UTC-4	11	R2408253-015 MSD	10	300.0 C	
12	10-091224FAST	2024-09-15 18:38:22 UTC-4	12	R2408253-017	10	300.0 C	
13	10-091224FAST	2024-09-15 18:44:38 UTC-4	13	CCV	1	300.0/9056A	
14	10-091224FAST	2024-09-15 18:50:54 UTC-4	14	CCB	1	300.0/9056A	
15	10-091224FAST	2024-09-15 19:26:34 UTC-4	15	R2408253-019	10	300.0 C	
16	10-091224FAST	2024-09-15 19:32:50 UTC-4	16	R2408253-021	10	300.0 C	
17	10-091224FAST	2024-09-15 19:39:23 UTC-4	17	R2408253-023	10	300.0 C	
18	10-091224FAST	2024-09-15 19:45:38 UTC-4	18	R2408253-027	10	300.0 C	
19	10-091224FAST	2024-09-15 19:51:54 UTC-4	19	R2408253-029	10	300.0 C	
20	10-091224FAST	2024-09-15 19:58:09 UTC-4	20	R2408253-031	10	300.0 C	
21	10-091224FAST	2024-09-15 20:04:23 UTC-4	21	R2408254-013	10	300.0 C	
22	10-091224FAST	2024-09-15 20:11:00 UTC-4	22	R2408254-013 MS	10	300.0 C	
23	10-091224FAST	2024-09-15 20:17:16 UTC-4	23	R2408254-013 MSD	10	300.0 C	
24	10-091224FAST	2024-09-15 20:24:51 UTC-4	24	R2408254-015	10	300.0 C	
25	10-091224FAST	2024-09-15 20:31:06 UTC-4	25	CCV	1	300.0/9056A	
26	10-091224FAST	2024-09-15 20:38:21 UTC-4	26	CCB	1	300.0/9056A	
27	10-091224FAST	2024-09-15 20:46:30 UTC-4	27	LCS	1	300.0/9056A	854122
28	10-091224FAST	2024-09-15 20:54:12 UTC-4	28	R2408254-017	10	300.0 C	
29	10-091224FAST	2024-09-15 21:00:28 UTC-4	29	R2408254-019	10	300.0 C	
30	10-091224FAST	2024-09-15 21:06:43 UTC-4	30	R2408254-021	10	300.0 C	
31	10-091224FAST	2024-09-15 21:12:58 UTC-4	31	R2408253-025	10	300.0 C	
32	10-091224FAST	2024-09-15 21:19:13 UTC-4	32	R2408253-033	10	300.0 C	
33	10-091224FAST	2024-09-15 21:25:27 UTC-4	33	R2408253-035	10	300.0 C	
34	10-091224FAST	2024-09-15 21:31:42 UTC-4	34	R2408253-035 MS	10	300.0 C	
35	10-091224FAST	2024-09-15 21:37:57 UTC-4	35	R2408253-035 MSD	10	300.0 C	
36	10-091224FAST	2024-09-15 21:44:13 UTC-4	36	R2408253-037	10	300.0 C	
37	10-091224FAST	2024-09-15 21:50:28 UTC-4	37	CCV	1	300.0/9056A	
38	10-091224FAST	2024-09-15 21:56:44 UTC-4	38	CCB	1	300.0/9056A	
39	10-091224FAST	2024-09-15 22:02:58 UTC-4	39	R2408253-039	10	300.0 C	
40	10-091224FAST	2024-09-15 22:09:13 UTC-4	40	R2408254-023	10	300.0 C	
41	10-091224FAST	2024-09-15 22:15:28 UTC-4	41	R2408254-025	10	300.0 C	
42	10-091224FAST	2024-09-15 22:21:42 UTC-4	42	R2408254-027	10	300.0 C	
43	10-091224FAST	2024-09-15 22:27:57 UTC-4	43	R2408254-029	10	300.0 C	
44	10-091224FAST	2024-09-15 22:34:12 UTC-4	44	R2408254-031	10	300.0 C	
45	10-091224FAST	2024-09-15 22:40:26 UTC-4	45	R2408254-033	10	300.0 C	
46	10-091224FAST	2024-09-15 22:46:45 UTC-4	46	R2408254-033 MS	10	300.0 C	
47	10-091224FAST	2024-09-15 22:53:00 UTC-4	47	R2408254-033 MSD	10	300.0 C	
48	10-091224FAST	2024-09-15 22:59:16 UTC-4	48	R2408254-035	10	300.0 C	
49	10-091224FAST	2024-09-15 23:05:31 UTC-4	49	CCV	1	300.0/9056A	
50	10-091224FAST	2024-09-15 23:11:47 UTC-4	50	CCB	1	300.0/9056A	
51	10-091224FAST	2024-09-15 23:18:02 UTC-4	51	LCS	1	300.0/9056A	854123
52	10-091224FAST	2024-09-15 23:24:18 UTC-4	52	R2408254-037	10	300.0 C	
53	10-091224FAST	2024-09-15 23:30:32 UTC-4	53	R2408254-039	10	300.0 C	
54	10-091224FAST	2024-09-15 23:36:47 UTC-4	54	R2408253-001	10	300.0 C	
55	10-091224FAST	2024-09-15 23:43:02 UTC-4	55	R2408253-001 MS!	10	300.0 C	
56	10-091224FAST	2024-09-15 23:49:17 UTC-4	56	R2408253-001 MSD!	10	300.0 C	
57	10-091224FAST	2024-09-15 23:55:32 UTC-4	57	R2408253-003	10	300.0 C	
58	10-091224FAST	2024-09-16 00:01:47 UTC-4	58	R2408253-005	10	300.0 C	
59	10-091224FAST	2024-09-16 00:08:02 UTC-4	59	R2408253-007	10	300.0 C	
60	10-091224FAST	2024-09-16 00:14:16 UTC-4	60	R2408253-009	10	300.0 C	
61	10-091224FAST	2024-09-16 00:20:31 UTC-4	61	CCV	1	300.0/9056A	
62	10-091224FAST	2024-09-16 00:26:47 UTC-4	62	CCB	1	300.0/9056A	
63	10-091224FAST	2024-09-16 00:33:03 UTC-4	63	R2408253-011	10	300.0 C	

Determination overview

	Method name	Determination start	Position	Ident	Dilution	Info 1	Info 2
64	10-091224FAST	2024-09-16 00:39:18 UTC-4	64	R2408253-013	10	300.0 C	
65	10-091224FAST	2024-09-16 00:45:32 UTC-4	65	R2408254-001	10	300.0 C	
66	10-091224FAST	2024-09-16 00:51:47 UTC-4	66	R2408254-003	10	300.0 C	
67	10-091224FAST	2024-09-16 00:58:01 UTC-4	67	R2408254-005	10	300.0 C	
68	10-091224FAST	2024-09-16 01:04:16 UTC-4	68	R2408254-007	10	300.0 C	
69	10-091224FAST	2024-09-16 01:10:30 UTC-4	69	R2408254-009	10	300.0 C	
70	10-091224FAST	2024-09-16 01:16:45 UTC-4	70	R2408254-009 MS!	10	300.0 C	
71	10-091224FAST	2024-09-16 01:23:01 UTC-4	71	R2408254-009 MSD!	10	300.0 C	
72	10-091224FAST	2024-09-16 01:29:16 UTC-4	72	R2408254-011	10	300.0 C	
73	10-091224FAST	2024-09-16 01:35:30 UTC-4	73	CCV	1	300.0/9056A	
74	10-091224FAST	2024-09-16 01:41:46 UTC-4	74	CCB	1	300.0/9056A	
75	10-091224FAST	2024-09-16 01:48:01 UTC-4	75	LCS	1	300.0/9056A	854124
76	10-091224FAST	2024-09-16 01:54:17 UTC-4	76	R2408259-001	1	300.0 FS	
77	10-091224FAST	2024-09-16 02:00:32 UTC-4	77	R2408259-001	10	300.0 C	
78	10-091224FAST	2024-09-16 02:06:47 UTC-4	78	R2408259-003	1	300.0 FS	
79	10-091224FAST	2024-09-16 02:13:02 UTC-4	79	R2408259-003	10	300.0 C	
80	10-091224FAST	2024-09-16 02:19:17 UTC-4	80	R2408259-005	1	300.0 FS	
81	10-091224FAST	2024-09-16 02:25:32 UTC-4	81	R2408259-005	10	300.0 C	
82	10-091224FAST	2024-09-16 02:31:47 UTC-4	82	R2408259-007	1	300.0 FS	
83	10-091224FAST	2024-09-16 02:38:03 UTC-4	83	R2408259-007	10	300.0 C	
84	10-091224FAST	2024-09-16 02:44:17 UTC-4	84	R2408337-001	10	300.0 CS	
85	10-091224FAST	2024-09-16 02:50:36 UTC-4	85	CCV	1	300.0/9056A	
86	10-091224FAST	2024-09-16 02:56:52 UTC-4	86	CCB	1	300.0/9056A	
87	10-091224FAST	2024-09-16 03:03:06 UTC-4	87	R2408337-003	10	300.0 CS	
88	10-091224FAST	2024-09-16 03:09:21 UTC-4	88	R2408337-003 MS	10	300.0 CS	
89	10-091224FAST	2024-09-16 03:15:36 UTC-4	89	R2408337-003 MSD	10	300.0 CS	
90	10-091224FAST	2024-09-16 03:21:51 UTC-4	90	R2408337-005	10	300.0 CS	
91	10-091224FAST	2024-09-16 03:28:06 UTC-4	91	R2408337-005 MS!	10	300.0 CS	
92	10-091224FAST	2024-09-16 03:34:22 UTC-4	92	R2408337-005 MSD!	10	300.0 CS	
93	10-091224FAST	2024-09-16 03:40:37 UTC-4	93	R2408341-001	1	300.0 FS	
94	10-091224FAST	2024-09-16 03:46:52 UTC-4	94	R2408341-001	10	300.0 C	
95	10-091224FAST	2024-09-16 03:53:07 UTC-4	95	R2408341-003	1	300.0 FS	
96	10-091224FAST	2024-09-16 03:59:22 UTC-4	96	R2408341-003	10	300.0 C	
97	10-091224FAST	2024-09-16 04:05:37 UTC-4	97	CCV	1	300.0/9056A	
98	10-091224FAST	2024-09-16 04:11:53 UTC-4	98	CCB	1	300.0/9056A	

Sample Dilutions

Final Volume: 8-10mL - IC#3,10

Analyst: KW / KAW
Instrument: IC#10

Date 9-15-24
Analysis 300.0 / 9056A

Common Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor
1/2	DI	4.5	4.5	1/2												
1/3	DI	3	6	1/3												
1/4	DI	2	6	1/4												
1/5	DI	2	8	1/5												
1/10	DI	1	9	1/10												
1/20	DI	3	3	1/2	1	9	1/20									
1/30	DI	3	6	1/3	1	9	1/30									
1/40	DI	1	3	1/4	1	9	1/40									
1/50	DI	1	4	1/5	1	9	1/50									
1/100	DI	1	9	1/10	1	9	1/100									
1/200	DI	3	3	1/2	1	9	1/20	1	9	1/200						
1/300	DI	3	6	1/3	1	9	1/30	1	9	1/300						
1/400	DI	1	3	1/4	1	9	1/40	1	9	1/400						
1/500	DI	1	4	1/5	1	9	1/50	1	9	1/500						
1/1000	DI	1	9	1/10	1	9	1/100	1	9	1/1000						
1/2000	DI	3	3	1/2	1	9	1/20	1	9	1/200	1	9	1/2000			
1/3000	DI	3	6	1/3	1	9	1/30	1	9	1/300	1	9	1/3000			
1/4000	DI	1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000			
1/10000	DI	1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000			
1/20000	DI	1	1	1/2	1	9	1/20	1	9	1/200	1	9	1/2000	1	9	1/20000
1/40000	DI	1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000	1	9	1/40000
1/100000	DI	1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000	1	9	1/100000

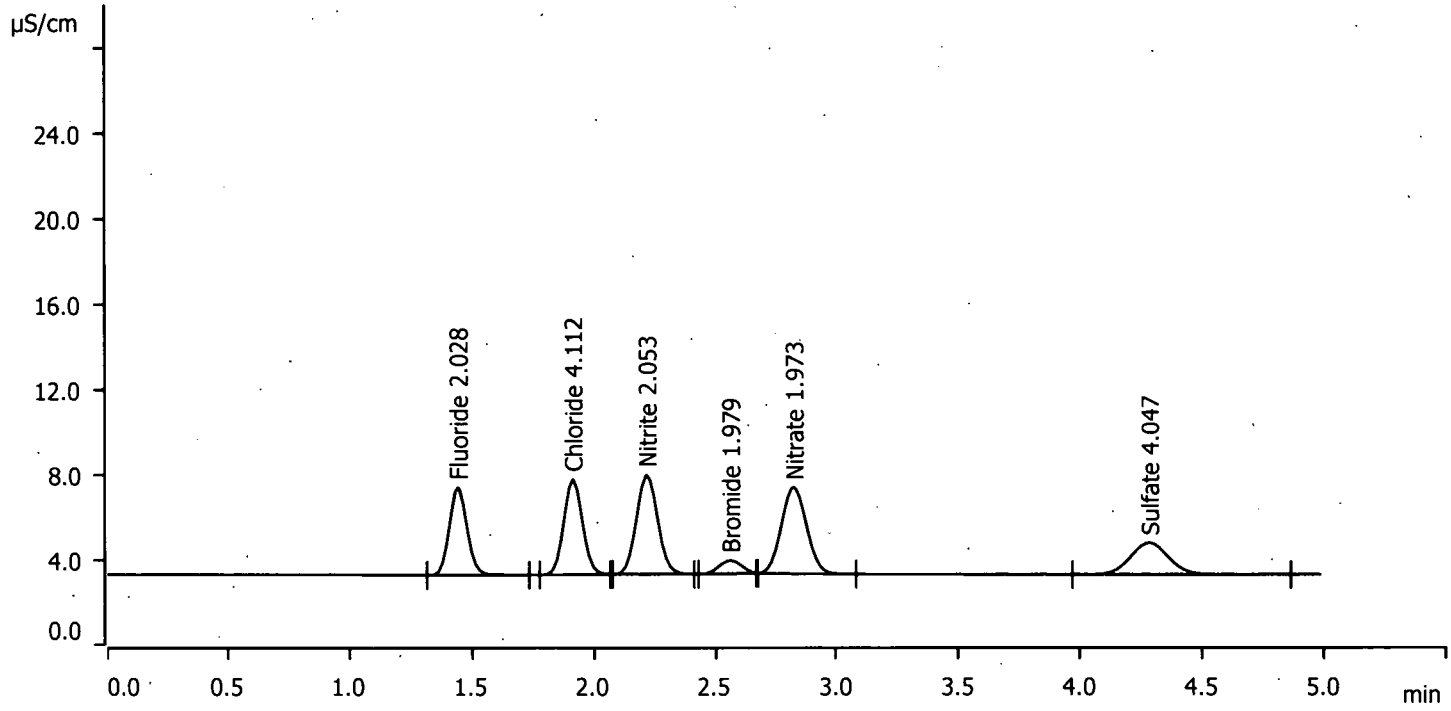
Special Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-15 17:24:40 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92363
Sample Position	1
Comment 1	300.0/9056A
Comment 2	

Anions



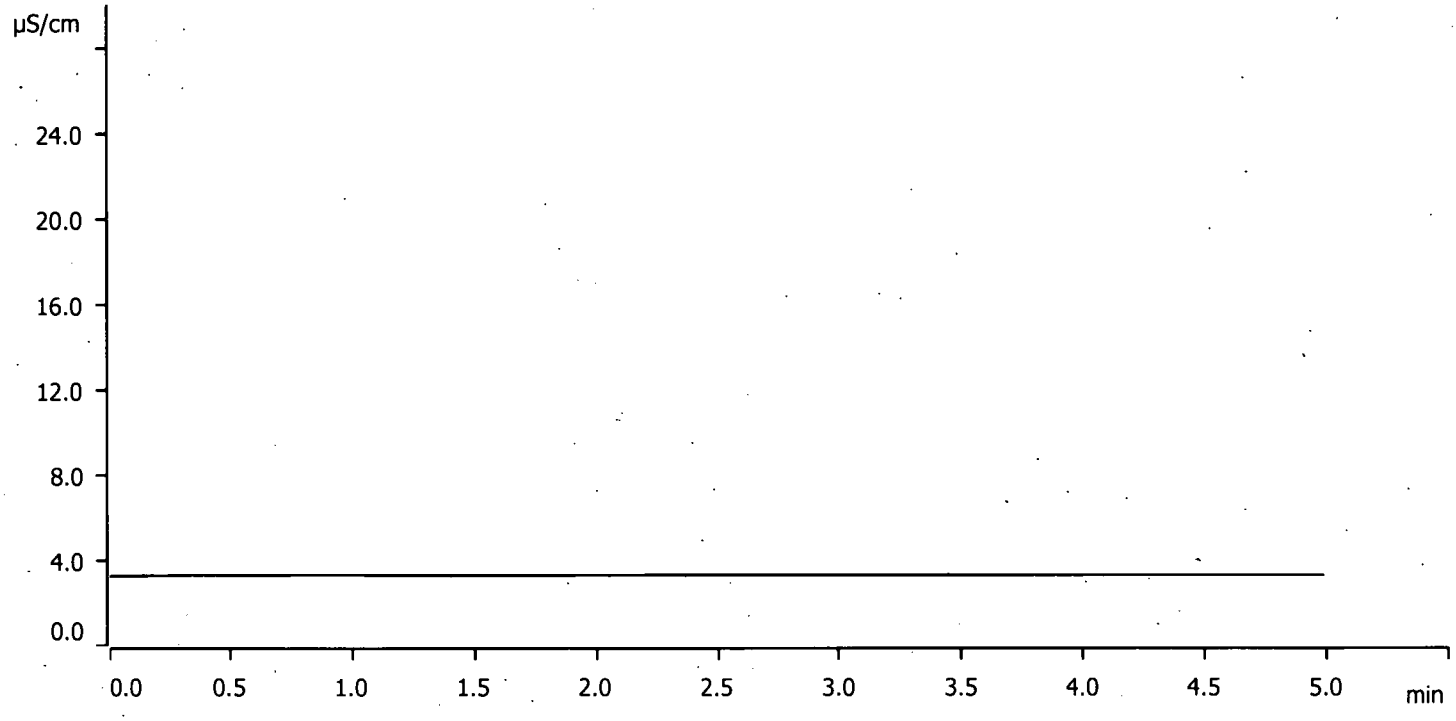
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.340	2.028	Fluoride	BB
2	1.92	0.399	4.112	Chloride	BB
3	2.22	0.474	2.053	Nitrite	BB
4	2.57	0.066	1.979	Bromide	BB
5	2.83	0.479	1.973	Nitrate	BB
6	4.28	0.271	4.047	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-15 17:30:57 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92364
Sample Position	2
Comment 1	300.0/9056A
Comment 2	

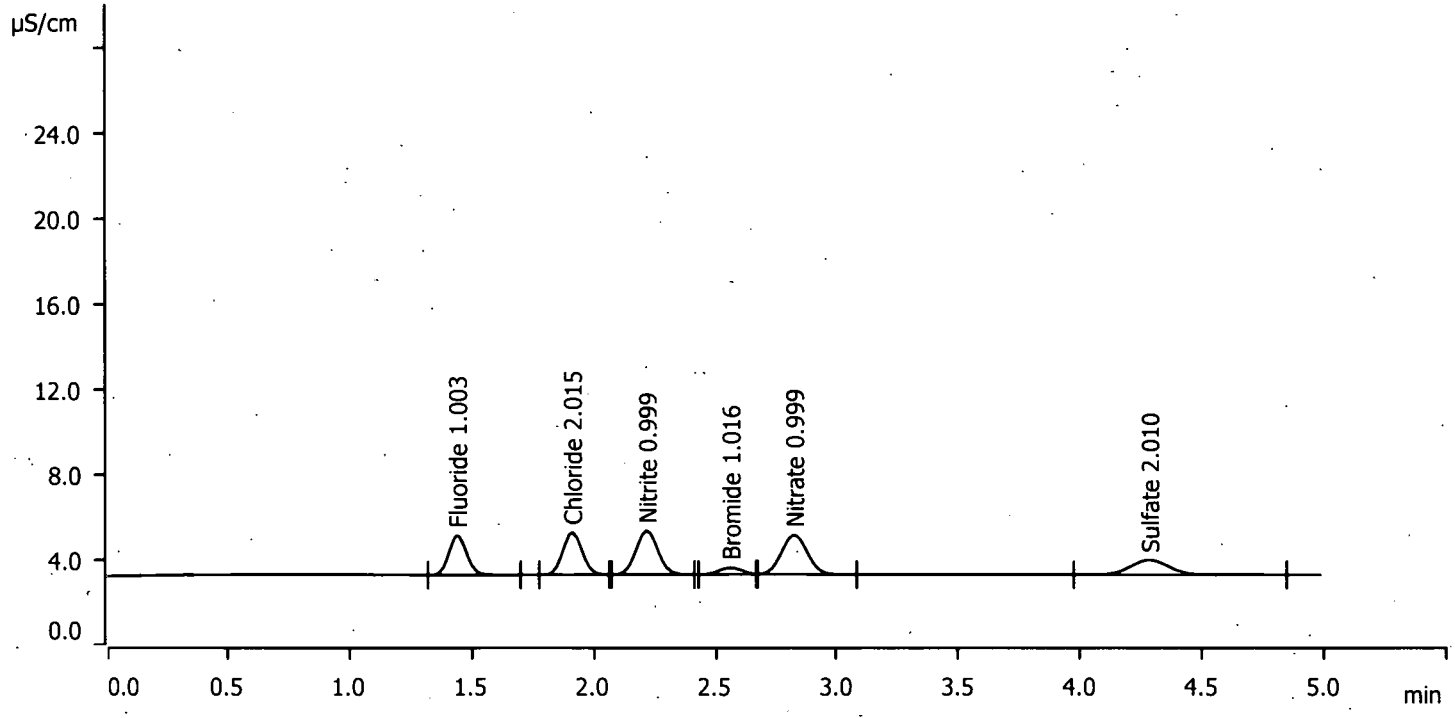
Anions



Sample data

Ident	LCS
Sample type	Check standard 2
Determination start	2024-09-15 17:37:11 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92365
Sample Position	3
Comment 1	300.0/9056A
Comment 2	

Anions



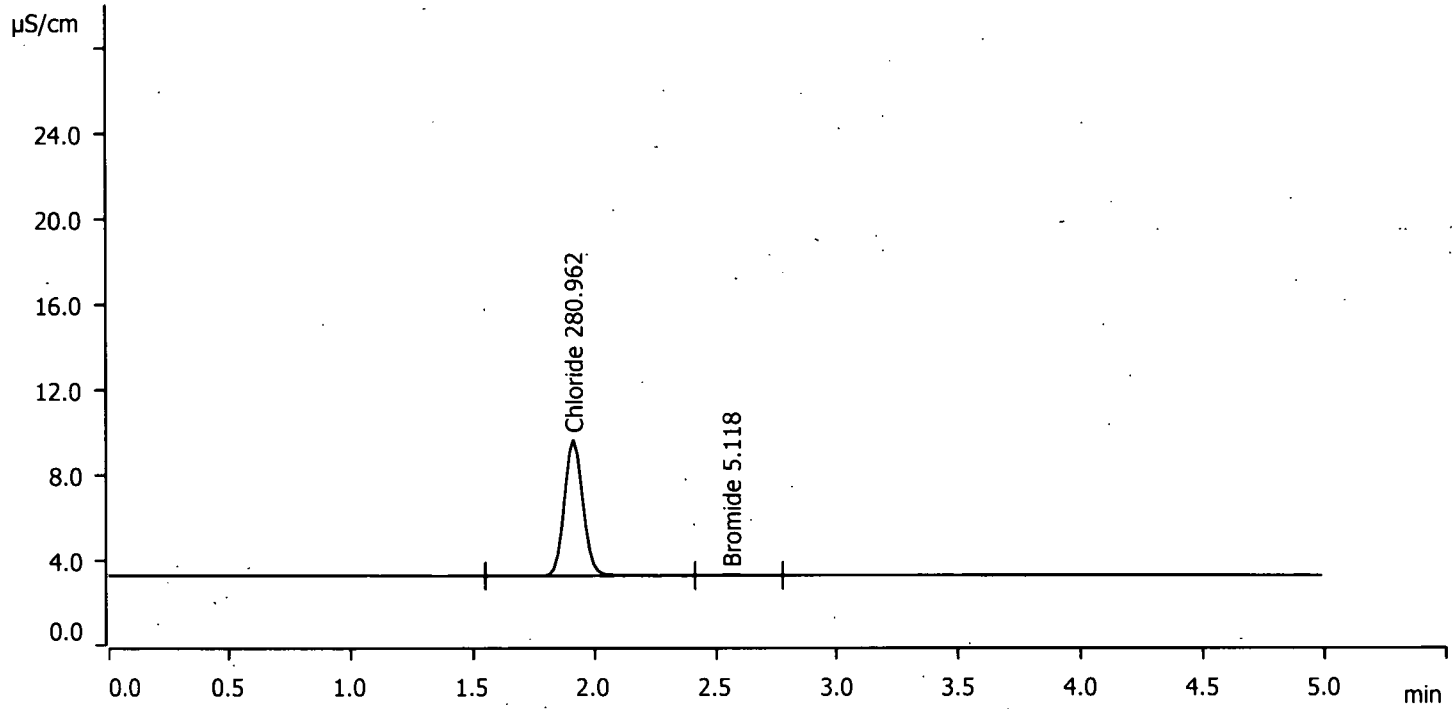
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.158	1.003	Fluoride	BB
2	1.92	0.181	2.015	Chloride	BB
3	2.22	0.216	0.999	Nitrite	BB
4	2.56	0.033	1.016	Bromide	BB
5	2.83	0.225	0.999	Nitrate	BB
6	4.28	0.129	2.010	Sulfate	BB

Sample data

Ident	R2409013-001
Sample type	Sample
Determination start	2024-09-15 17:48:15 UTC-4
Method	10-091224FAST
Dilution	50
Counter	92367
Sample Position	4
Comment 1	300.0 C
Comment 2	

Anions



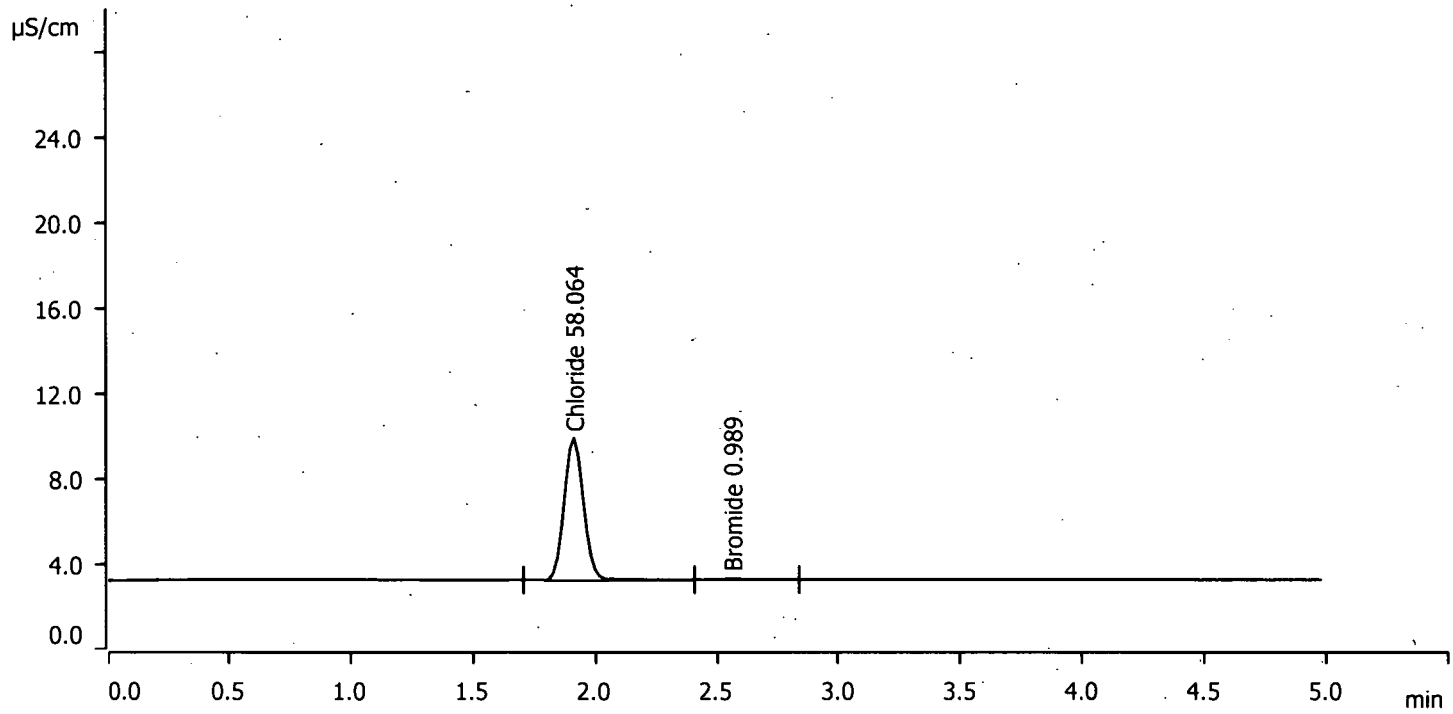
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.571	280.962	Chloride	BB
2	2.57	0.003	5.118	Bromide	BB

Sample data

Ident	R2409013-003
Sample type	Sample
Determination start	2024-09-15 17:54:33 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92368
Sample Position	5
Comment 1	300.0 C
Comment 2	

Anions



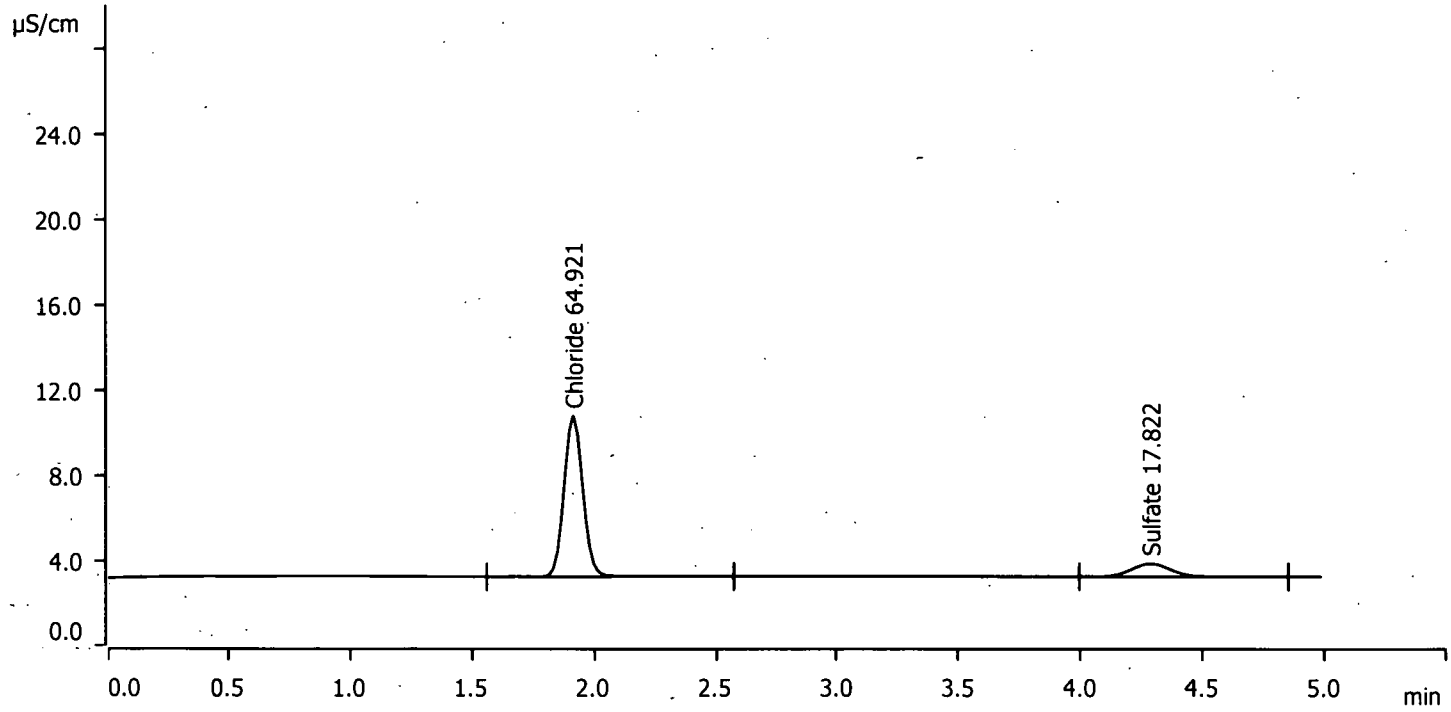
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.594	58.064	Chloride	BB
2	2.57	0.003	0.989	Bromide	BB

Sample data

Ident	R2409013-006
Sample type	Sample
Determination start	2024-09-15 18:00:49 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92369
Sample Position	6
Comment 1	300.0 C
Comment 2	

Anions



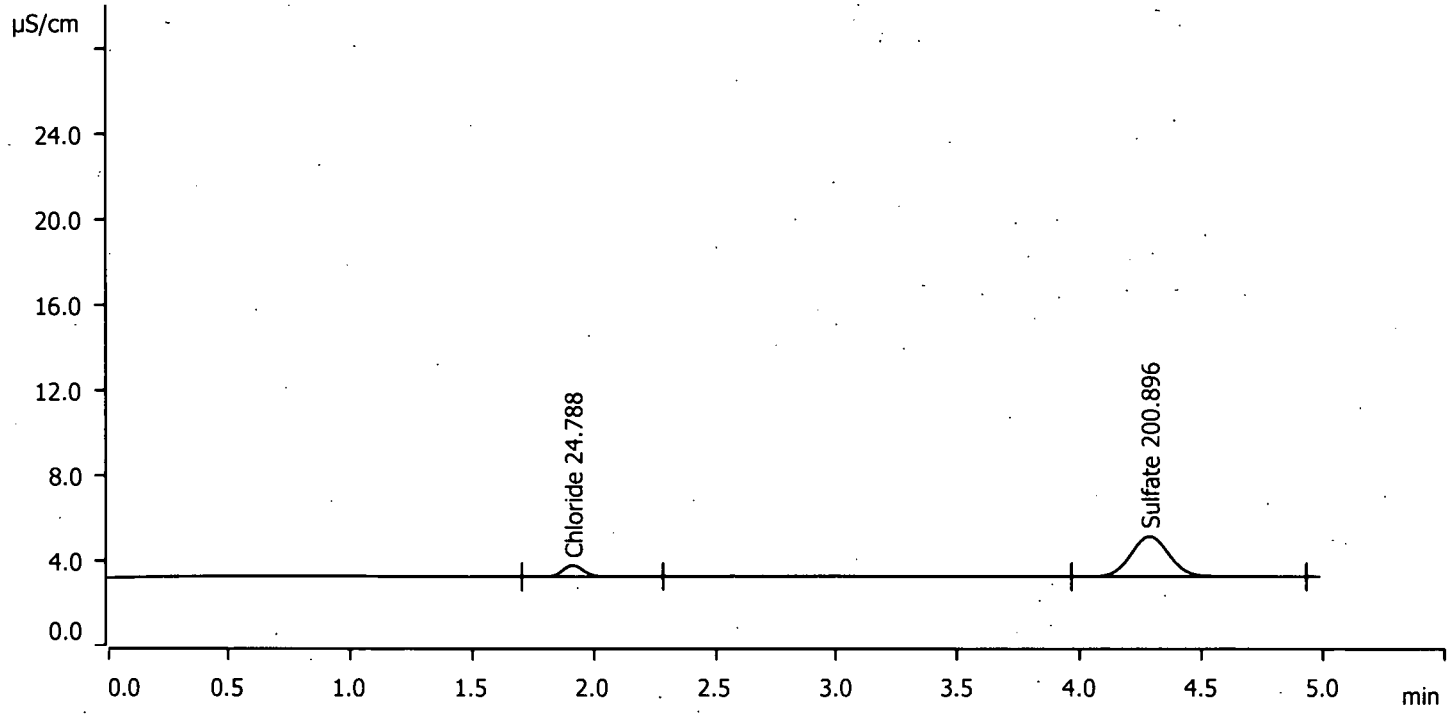
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.678	64.921	Chloride	BB
2	4.29	0.114	17.822	Sulfate	BB

Sample data

Ident	R2408139-007
Sample type	Sample
Determination start	2024-09-15 18:07:04 UTC-4
Method	10-091224FAST
Dilution	40
Counter	92370
Sample Position	7
Comment 1	300.0 S
Comment 2	

Anions



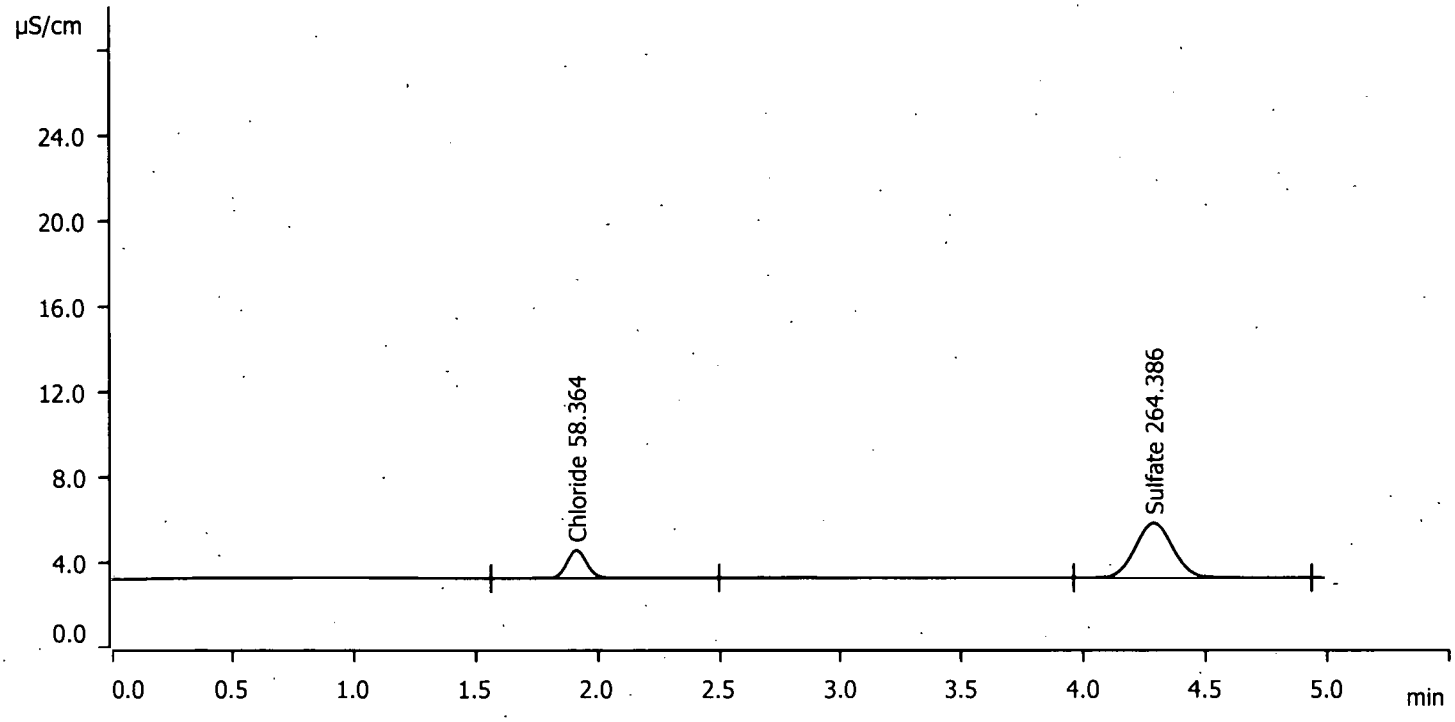
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.052	24.788	Chloride	BB
2	4.29	0.343	200.896	Sulfate	BB

Sample data

Ident	R2408140-011
Sample type	Sample
Determination start	2024-09-15 18:13:20 UTC-4
Method	10-091224FAST
Dilution	40
Counter	92371
Sample Position	8
Comment 1	300.0 S
Comment 2	

Anions



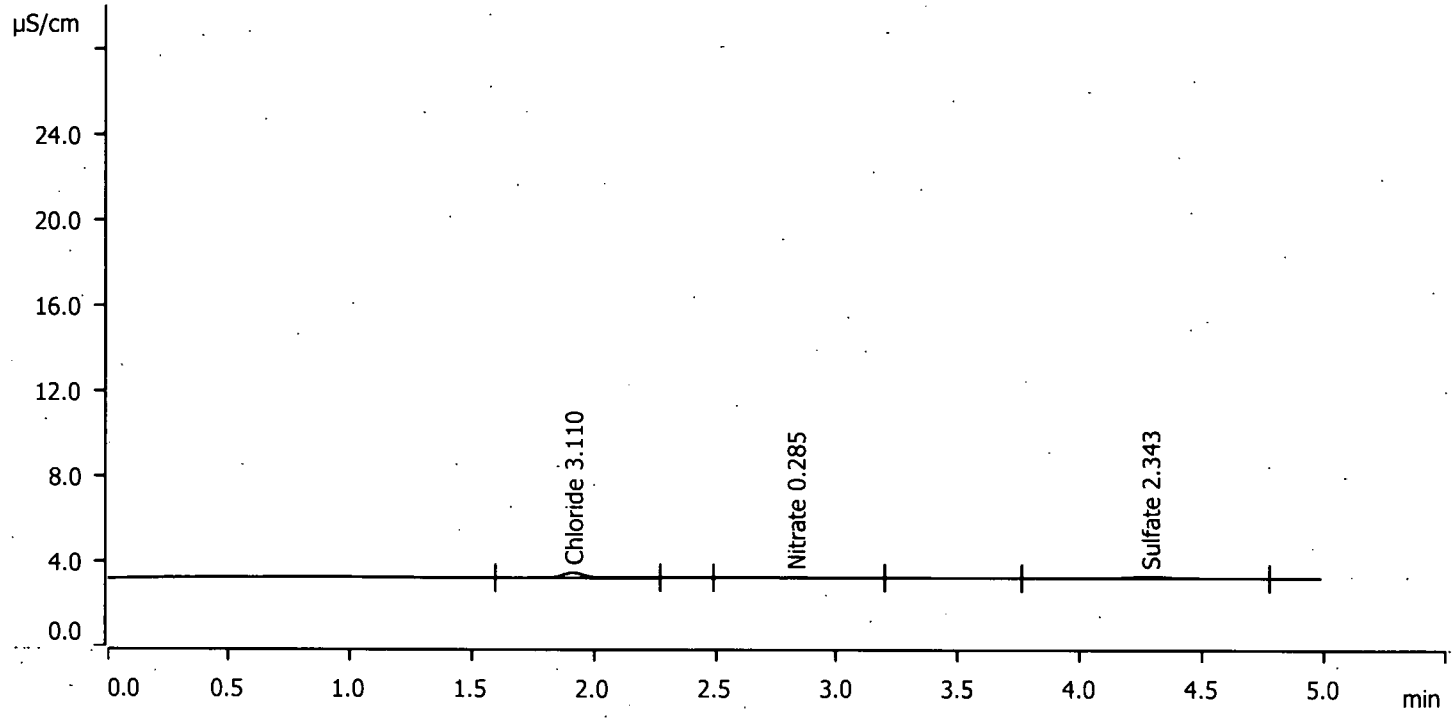
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.128	58.364	Chloride	BB
2	4.29	0.466	264.386	Sulfate	BB

Sample data

Ident	R2408253-015
Sample type	Sample
Determination start	2024-09-15 18:19:35 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92372
Sample Position	9
Comment 1	300.0 C
Comment 2	

Anions



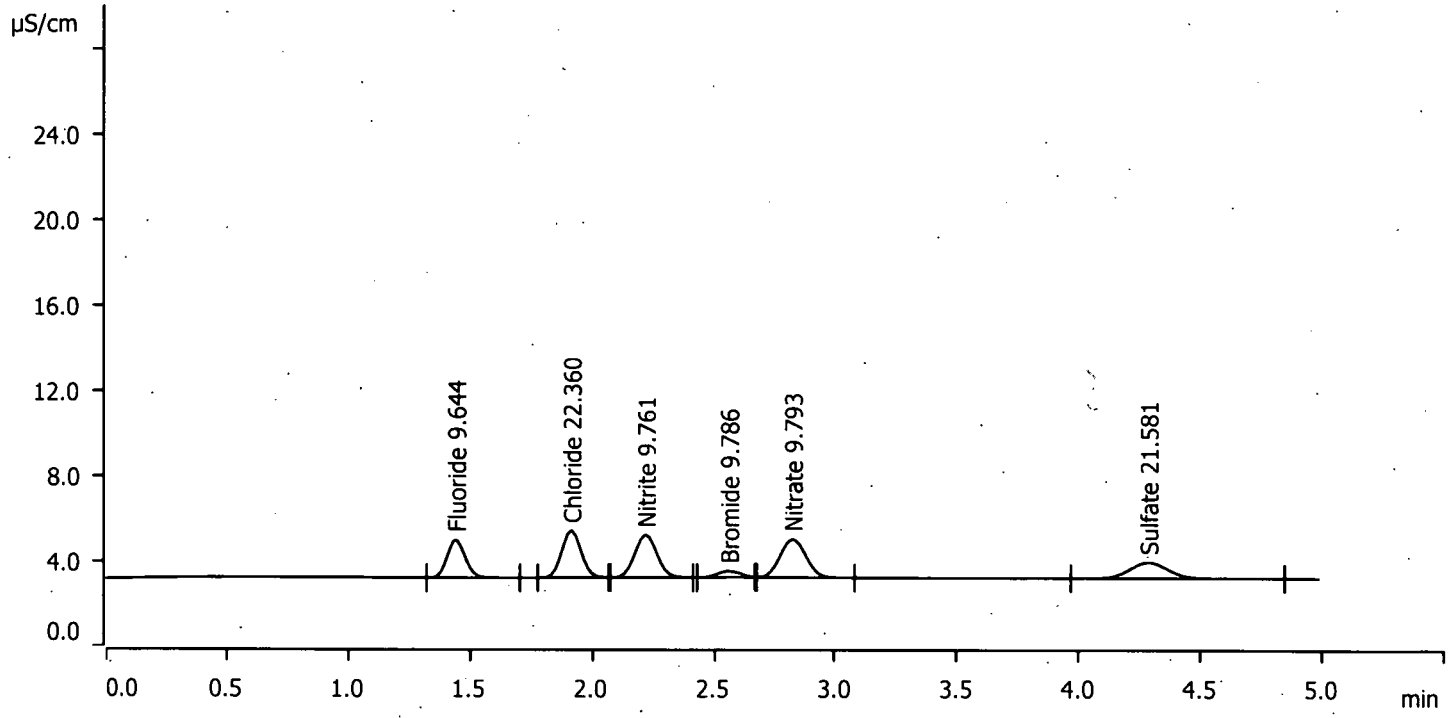
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.025	3.110	Chloride	BB
2	2.83	0.002	0.285	Nitrate	BB
3	4.29	0.014	2.343	Sulfate	BB

Sample data

Ident	R2408253-015 MS
Sample type	Sample
Determination start	2024-09-15 18:25:51 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92373
Sample Position	10
Comment 1	300.0 C
Comment 2	

Anions



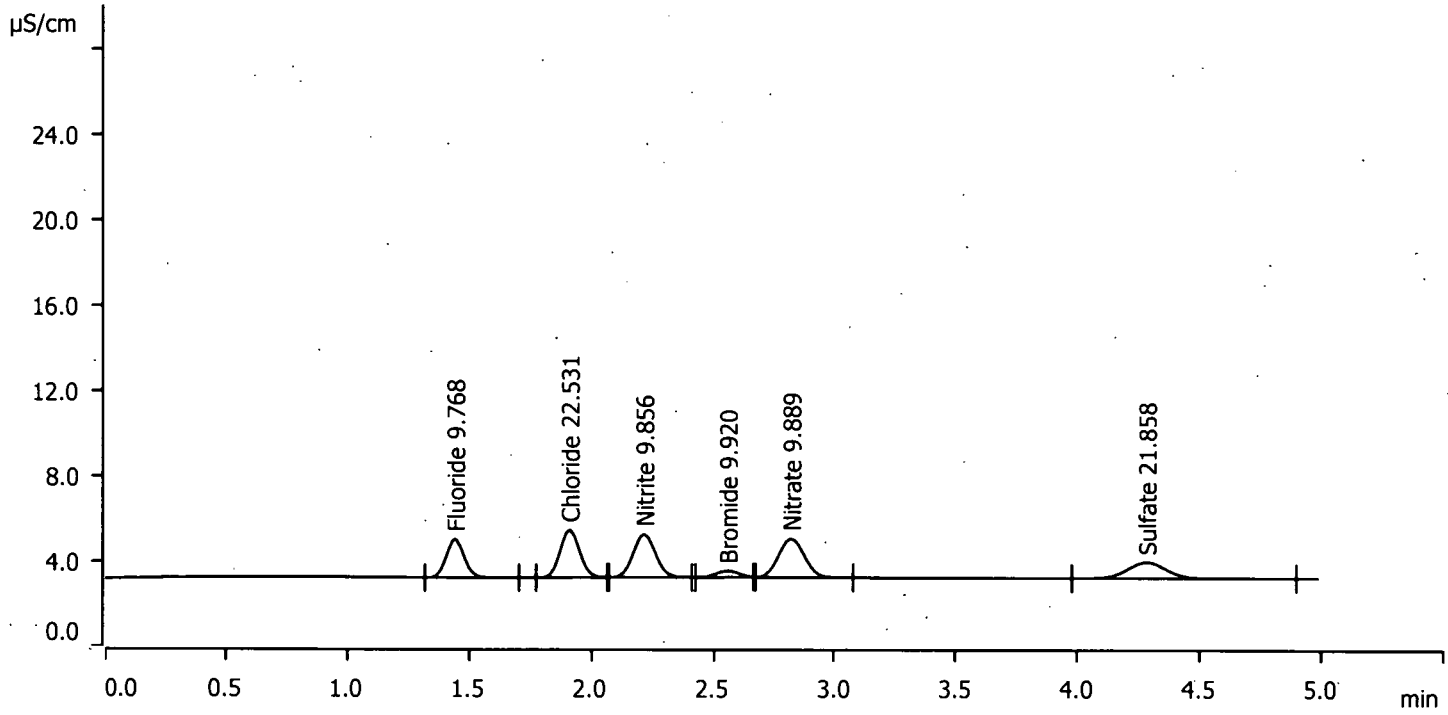
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.151	9.644	Fluoride	BB
2	1.92	0.203	22.360	Chloride	BB
3	2.22	0.210	9.761	Nitrite	BB
4	2.56	0.031	9.786	Bromide	BB
5	2.83	0.220	9.793	Nitrate	BB
6	4.29	0.139	21.581	Sulfate	BB

Sample data

Ident	R2408253-015 MSD
Sample type	Sample
Determination start	2024-09-15 18:32:07 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92374
Sample Position	11
Comment 1	300.0 C
Comment 2	

Anions



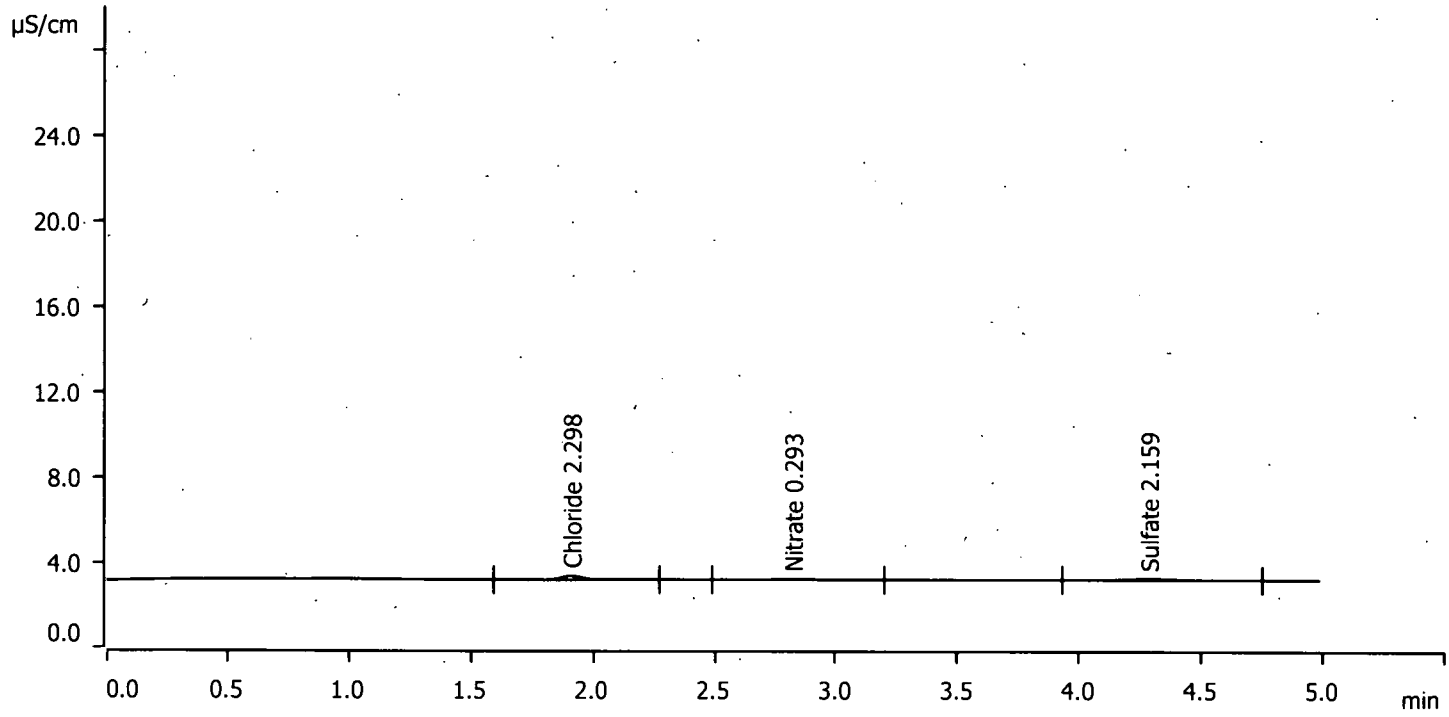
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.153	9.768	Fluoride	BB
2	1.92	0.205	22.531	Chloride	BB
3	2.22	0.213	9.856	Nitrite	BB
4	2.56	0.032	9.920	Bromide	BB
5	2.82	0.222	9.889	Nitrate	BB
6	4.28	0.141	21.858	Sulfate	BB

Sample data

Ident	R2408253-017
Sample type	Sample
Determination start	2024-09-15 18:38:22 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92375
Sample Position	12
Comment 1	300.0 C
Comment 2	

Anions



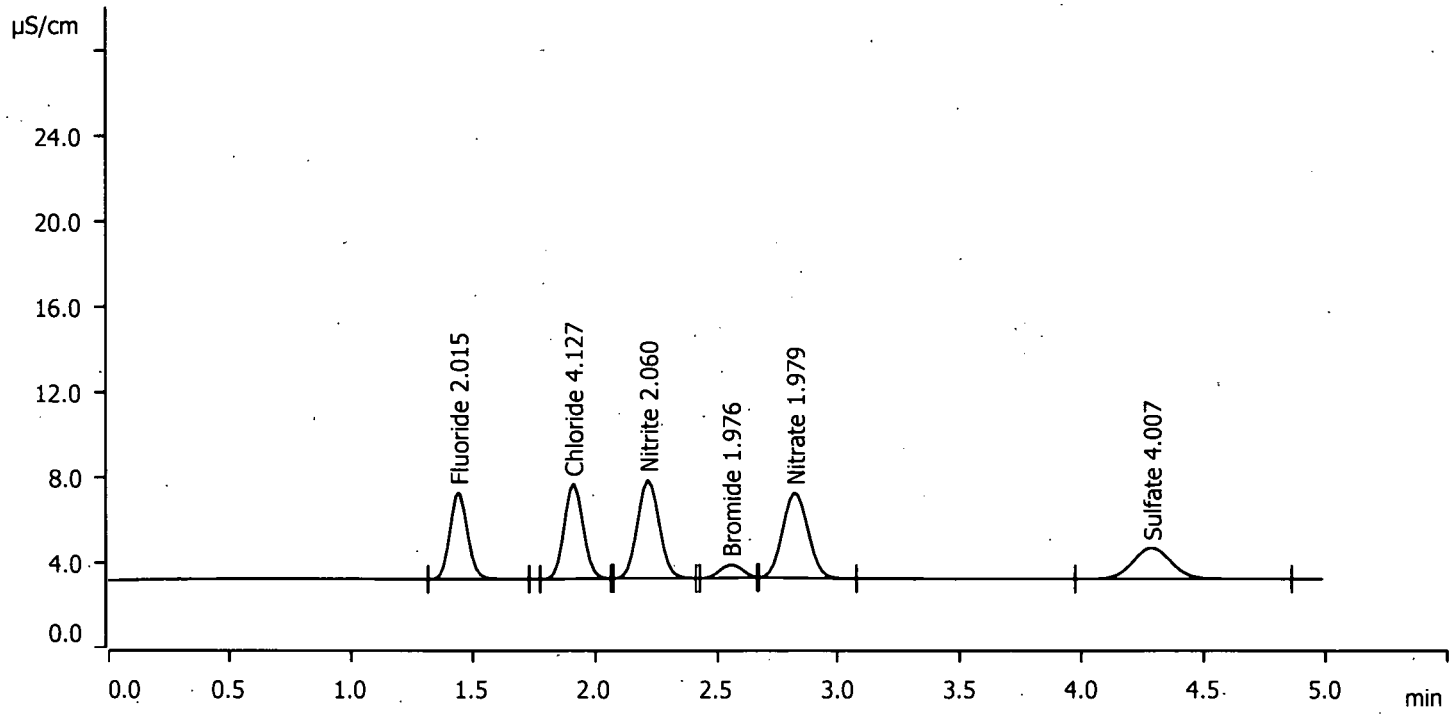
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.018	2.298	Chloride	BB
2	2.82	0.002	0.293	Nitrate	BBI
3	4.29	0.013	2.159	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-15 18:44:38 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92376
Sample Position	13
Comment 1	300.0/9056A
Comment 2	

Anions



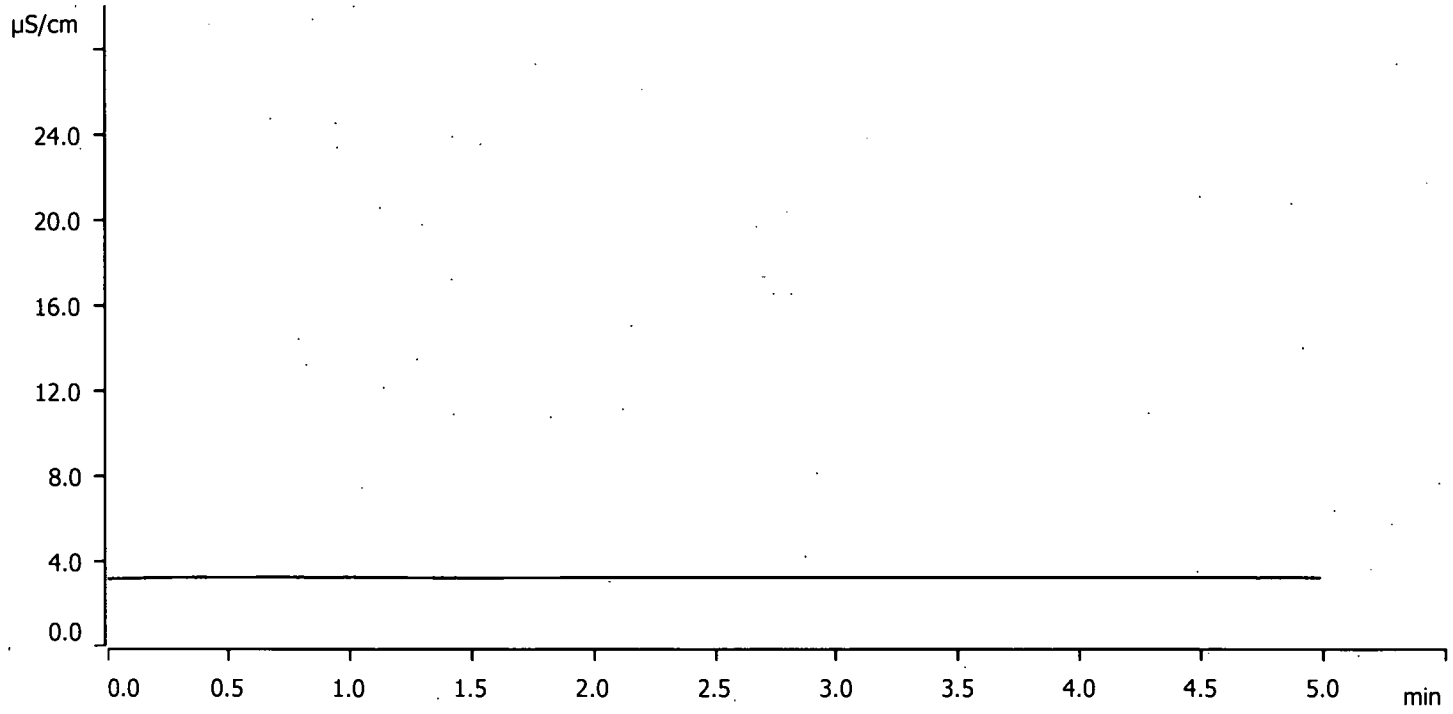
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.338	2.015	Fluoride	BB
2	1.92	0.400	4.127	Chloride	BB
3	2.22	0.476	2.060	Nitrite	BB
4	2.56	0.066	1.976	Bromide	BB
5	2.82	0.481	1.979	Nitrate	BB
6	4.29	0.268	4.007	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-15 18:50:54 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92377
Sample Position	14
Comment 1	300.0/9056A
Comment 2	

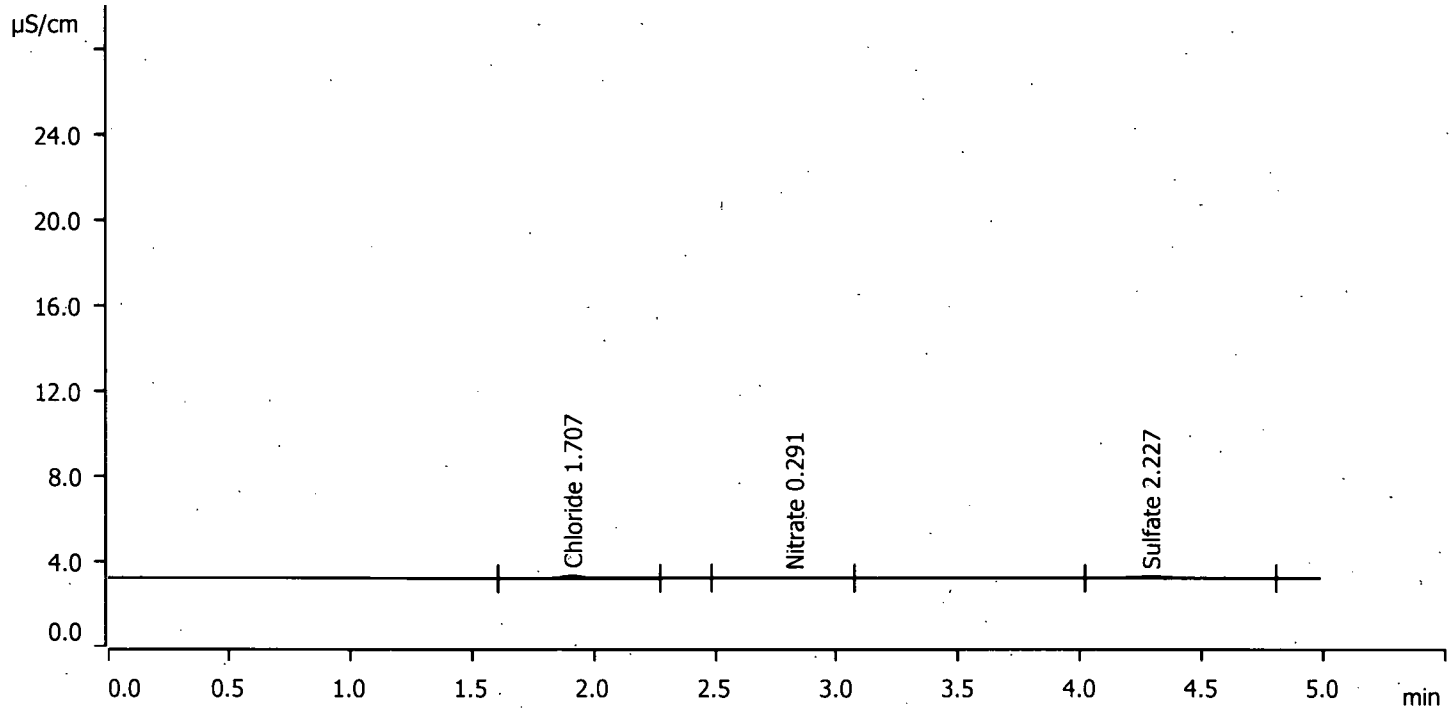
Anions



Sample data

Ident	R2408253-019
Sample type	Sample
Determination start	2024-09-15 19:26:34 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92378
Sample Position	15
Comment 1	300.0 C
Comment 2	

Anions



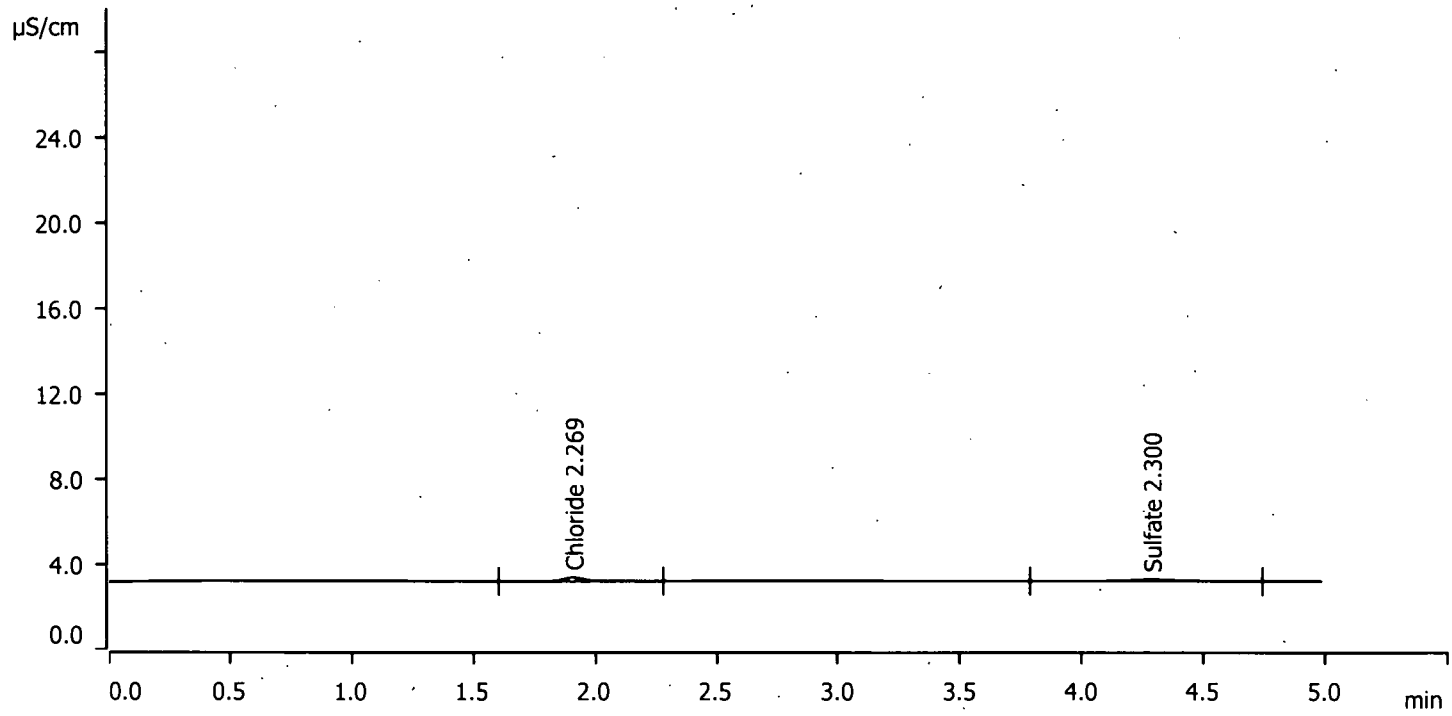
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.013	1.707	Chloride	BB
2	2.82	0.002	0.291	Nitrate	BB
3	4.29	0.014	2.227	Sulfate	BB

Sample data

Ident	R2408253-021
Sample type	Sample
Determination start	2024-09-15 19:32:50 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92379
Sample Position	16
Comment 1	300.0 C
Comment 2	

Anions



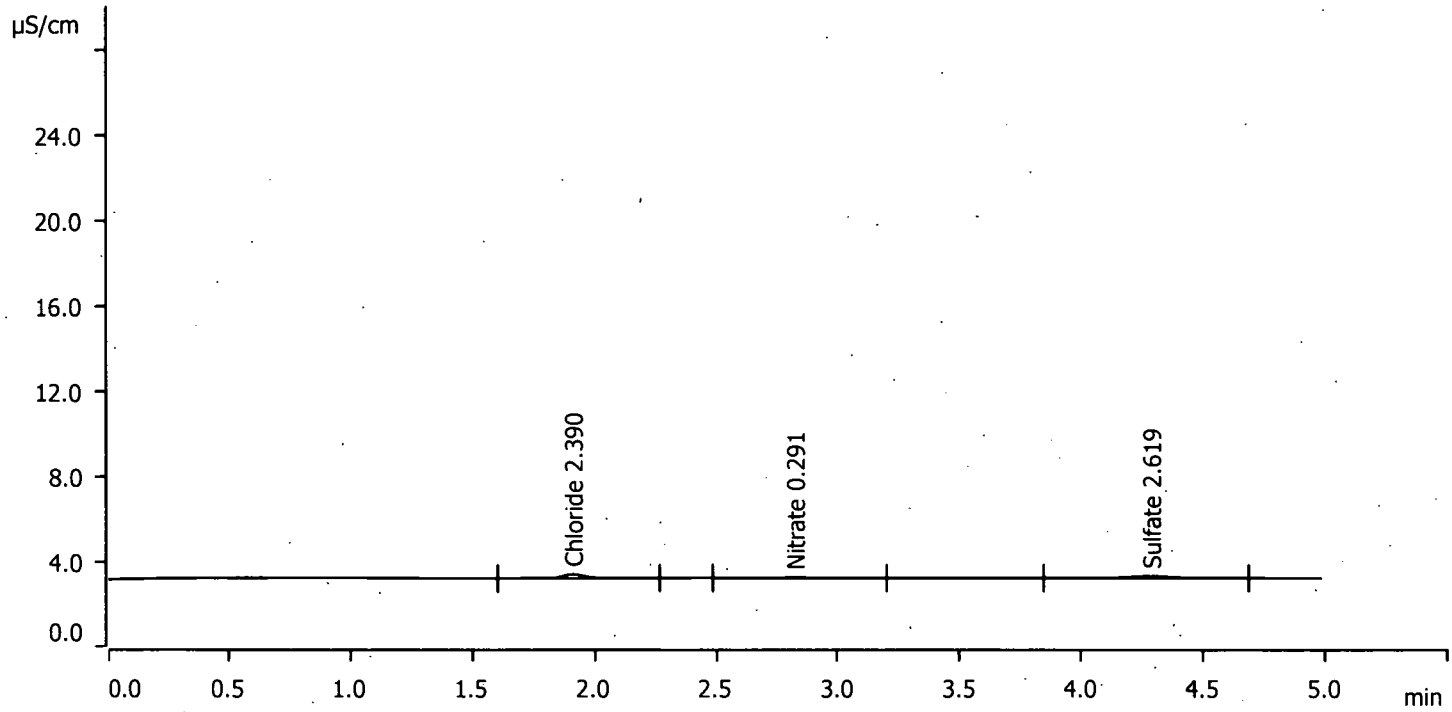
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.017	2.269	Chloride	BB
2	4.29	0.014	2.300	Sulfate	BB

Sample data

Ident	R2408253-023
Sample type	Sample
Determination start	2024-09-15 19:39:23 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92380
Sample Position	17
Comment 1	300.0 C
Comment 2	

Anions



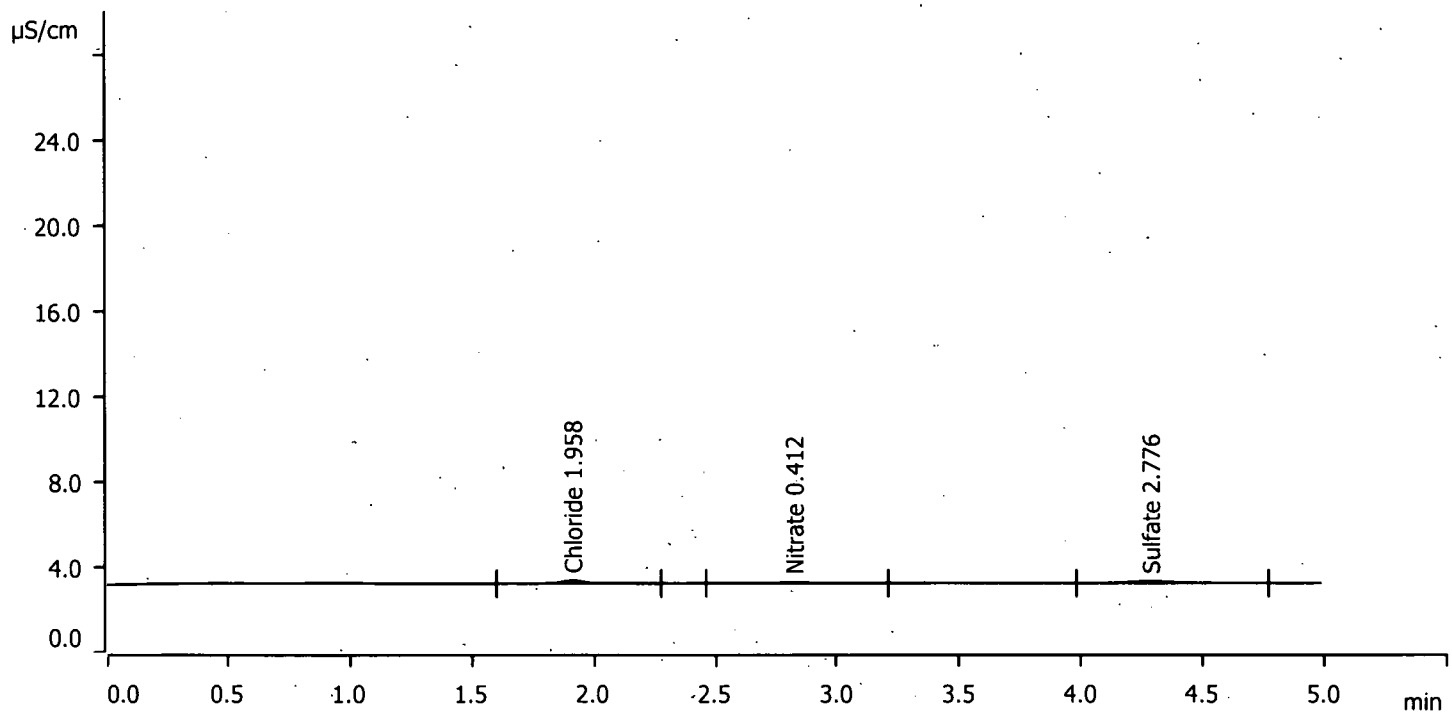
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.019	2.390	Chloride	BB
2	2.82	0.002	0.291	Nitrate	BB
3	4.29	0.016	2.619	Sulfate	BB

Sample data

Ident	R2408253-027
Sample type	Sample
Determination start	2024-09-15 19:45:38 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92381
Sample Position	18
Comment 1	300.0 C
Comment 2	

Anions



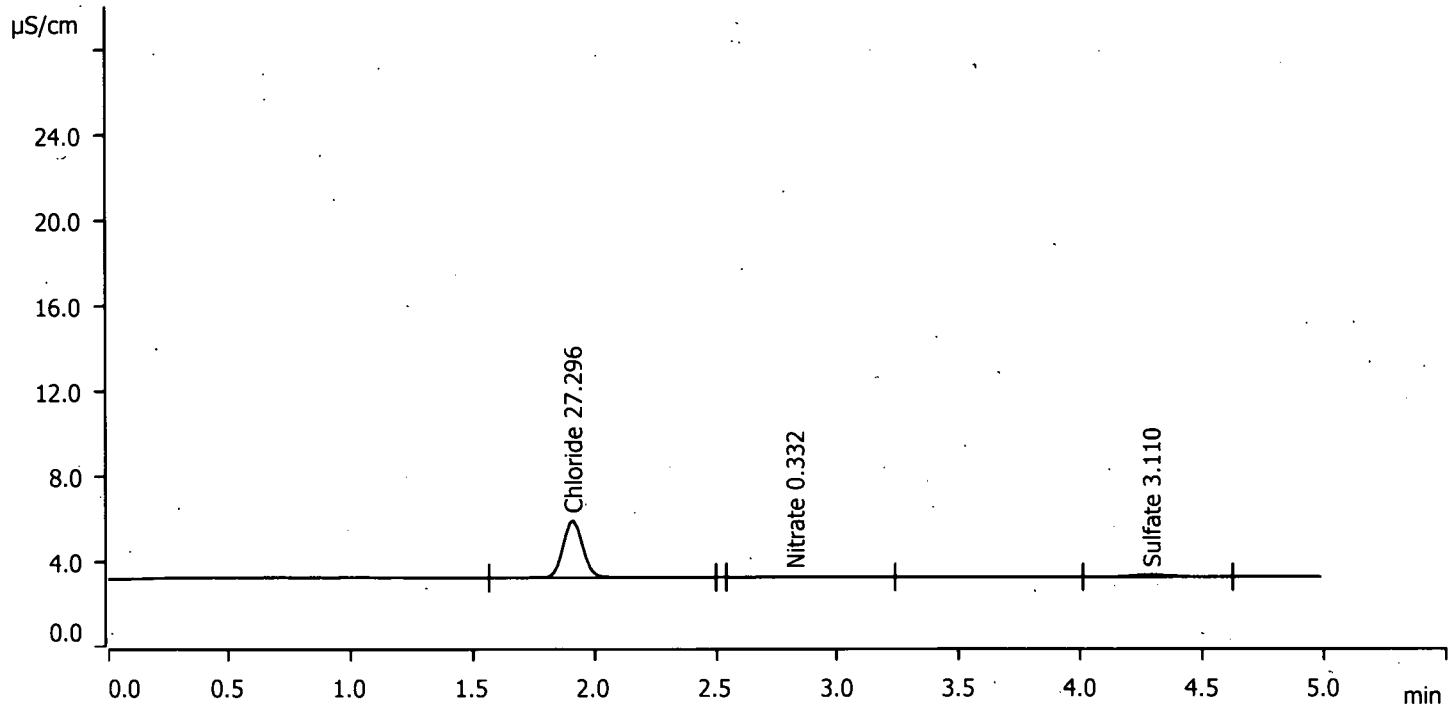
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.015	1.958	Chloride	BB
2	2.82	0.005	0.412	Nitrate	BB
3	4.28	0.017	2.776	Sulfate	BB

Sample data

Ident	R2408253-029
Sample type	Sample
Determination start	2024-09-15 19:51:54 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92382
Sample Position	19
Comment 1	300.0 C
Comment 2	

Anions



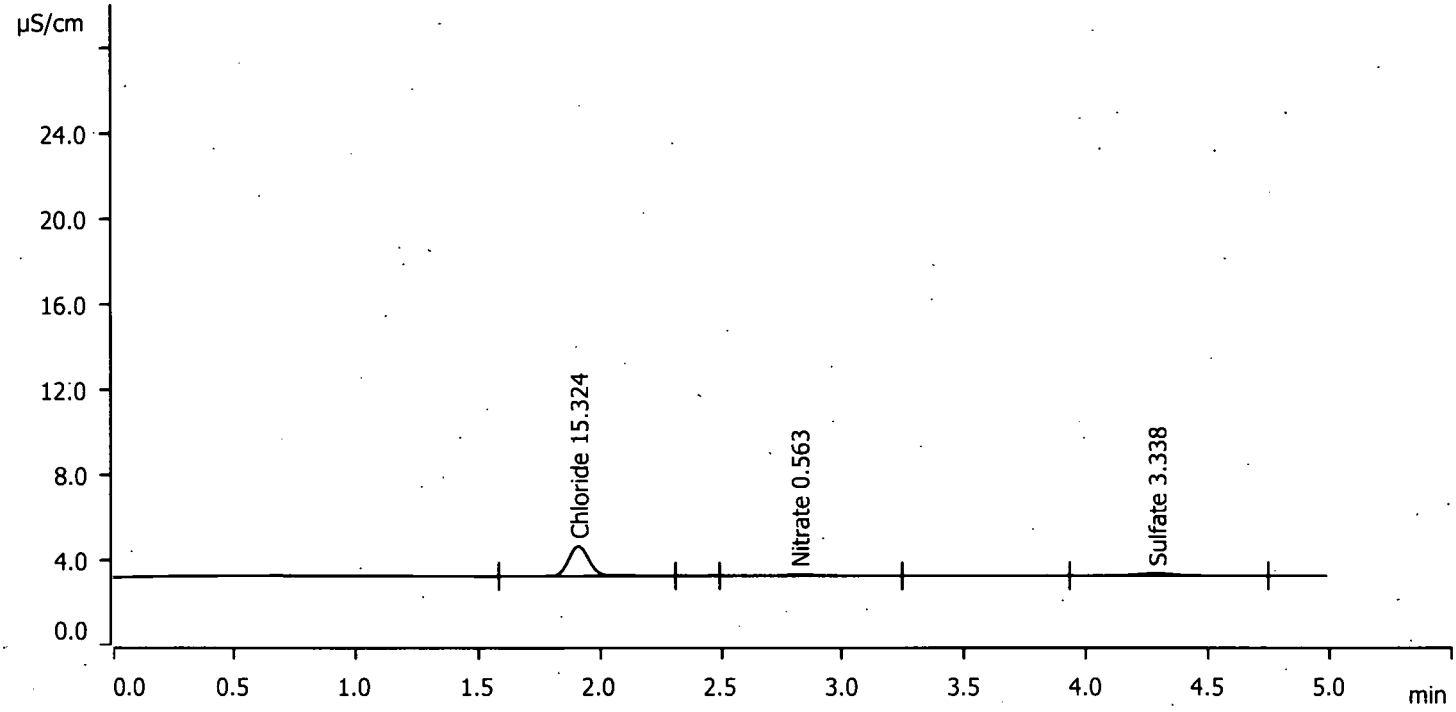
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.252	27.296	Chloride	BB
2	2.82	0.003	0.332	Nitrate	BBI
3	4.29	0.019	3.110	Sulfate	BB

Sample data

Ident	R2408253-031
Sample type	Sample
Determination start	2024-09-15 19:58:09 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92383
Sample Position	20
Comment 1	300.0 C
Comment 2	

Anions



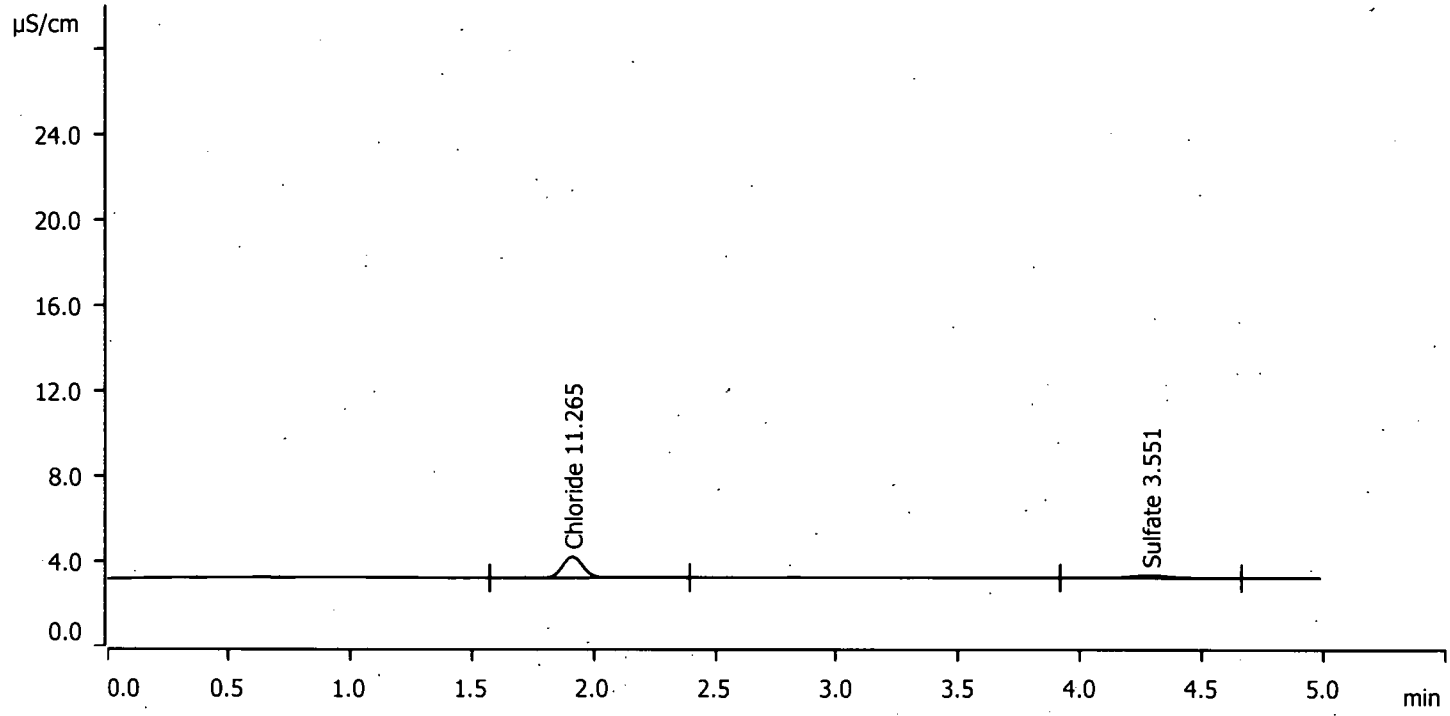
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.135	15.324	Chloride	BB
2	2.82	0.008	0.563	Nitrate	BB
3	4.29	0.021	3.338	Sulfate	BB

Sample data

Ident	R2408254-013
Sample type	Sample
Determination start	2024-09-15 20:04:23 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92384
Sample Position	21
Comment 1	300.0 C
Comment 2	

Anions



Anions

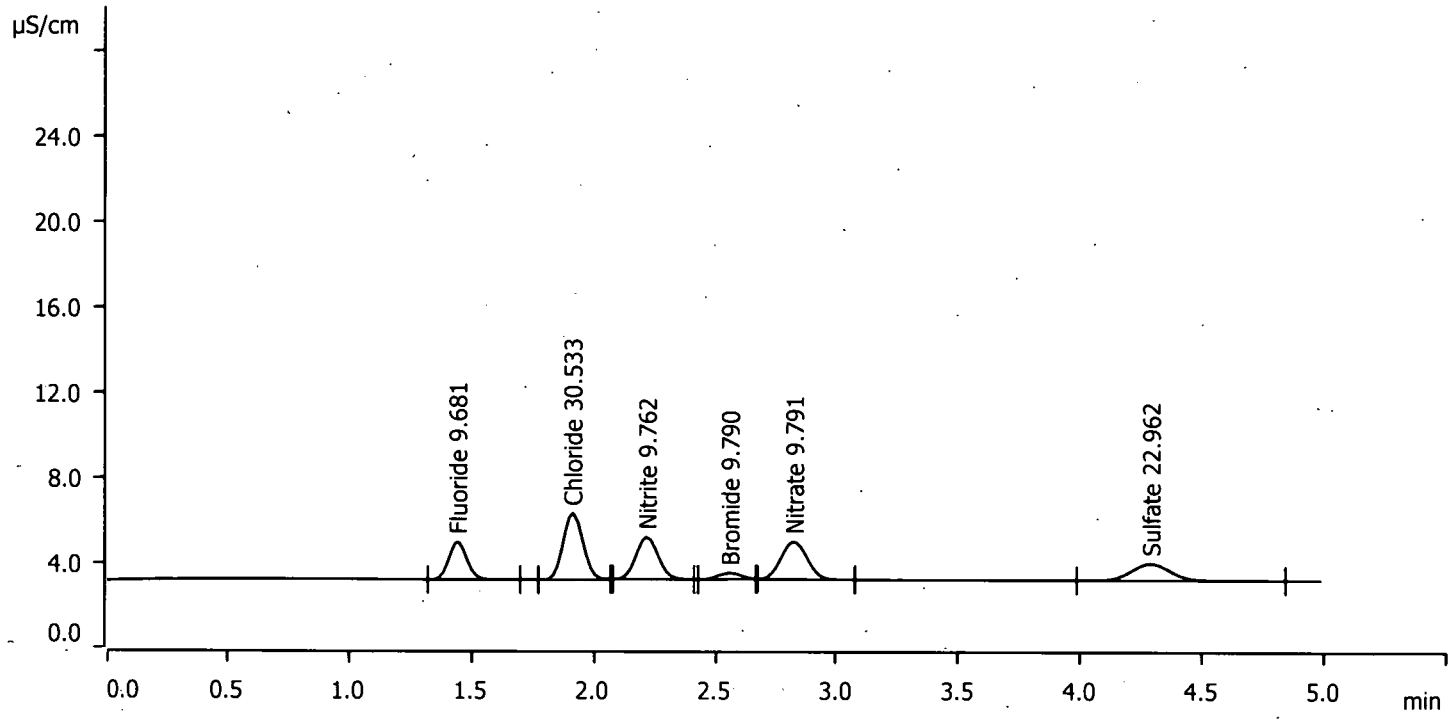
Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.097	11.265	Chloride	BB
2	4.29	0.022	3.551	Sulfate	BB

Page 1 of 1

Sample data

Ident	R2408254-013 MS
Sample type	Sample
Determination start	2024-09-15 20:11:00 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92385
Sample Position	22
Comment 1	300.0 C
Comment 2	

Anions



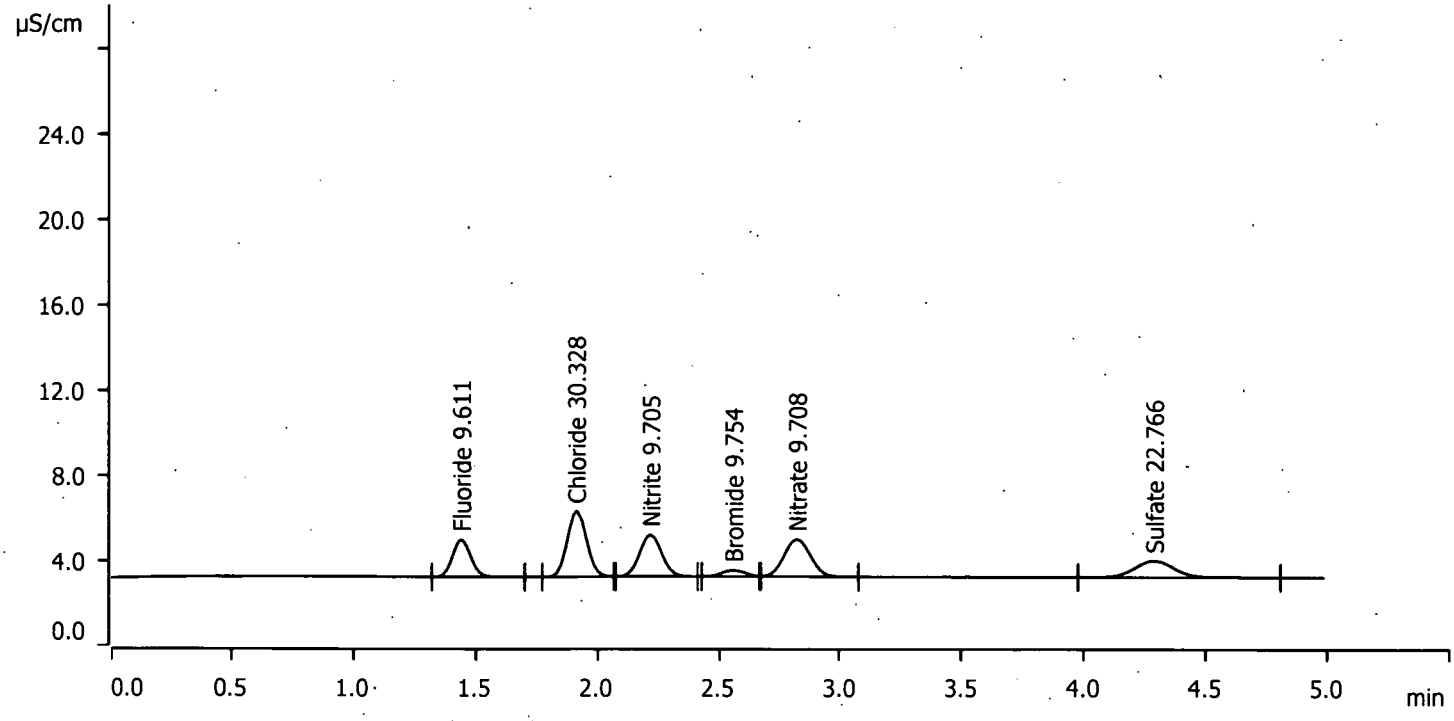
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.152	9.681	Fluoride	BB
2	1.92	0.285	30.533	Chloride	BB
3	2.22	0.210	9.762	Nitrite	BB
4	2.56	0.031	9.790	Bromide	BB
5	2.82	0.220	9.791	Nitrate	BB
6	4.29	0.148	22.962	Sulfate	BB

Sample data

Ident	R2408254-013 MSD
Sample type	Sample
Determination start	2024-09-15 20:17:16 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92386
Sample Position	23
Comment 1	300.0 C
Comment 2	

Anions



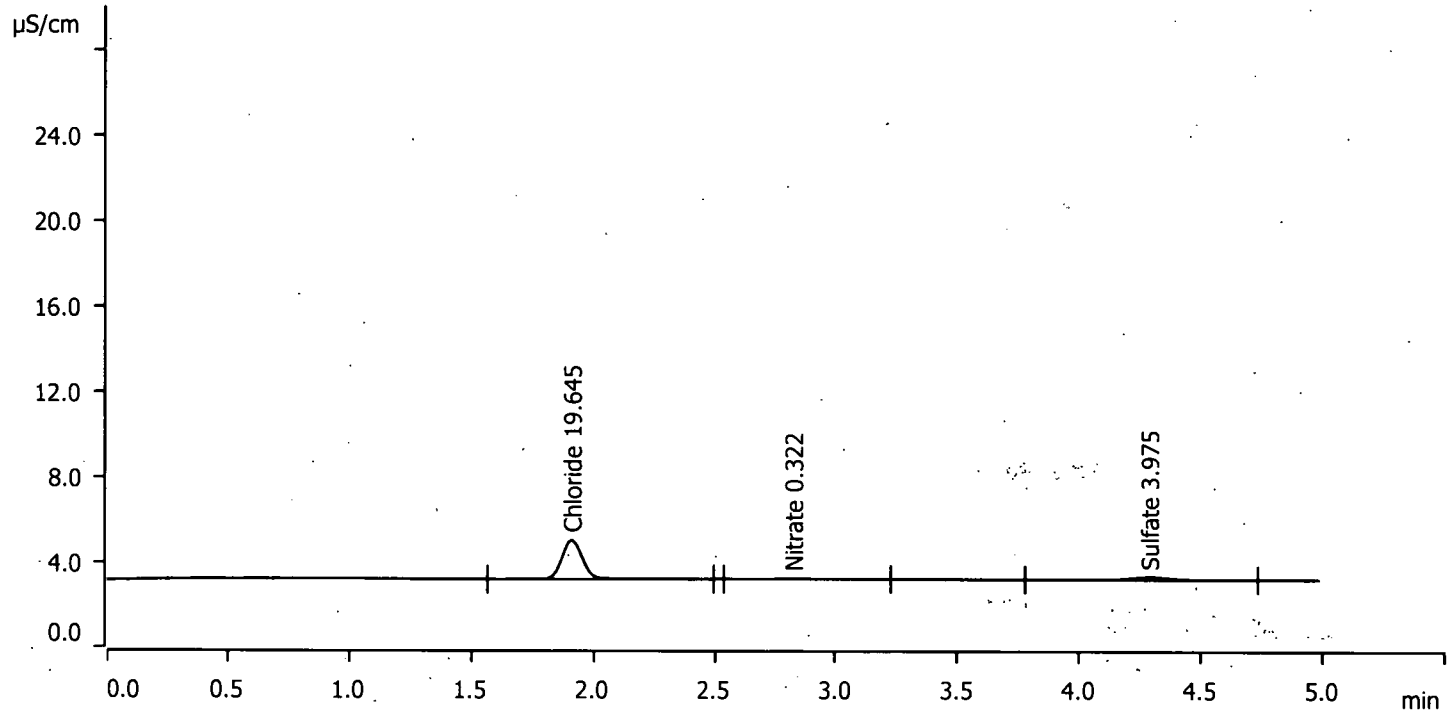
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.150	9.611	Fluoride	BB
2	1.92	0.283	30.328	Chloride	BB
3	2.22	0.209	9.705	Nitrite	BB
4	2.56	0.031	9.754	Bromide	BB
5	2.82	0.218	9.708	Nitrate	BB
6	4.29	0.147	22.766	Sulfate	BB

Sample data

Ident	R2408254-015
Sample type	Sample
Determination start	2024-09-15 20:24:51 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92387
Sample Position	24
Comment 1	300.0 C
Comment 2	

Anions



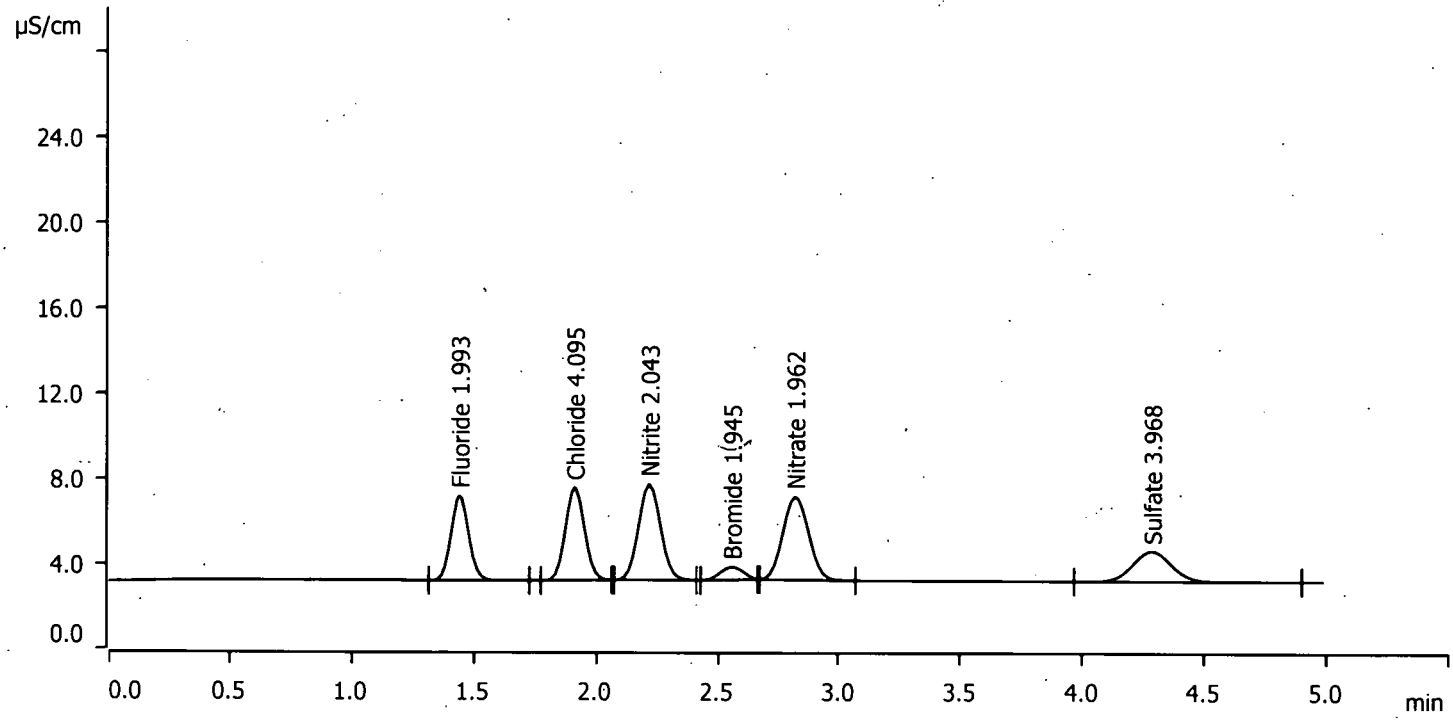
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.176	19.645	Chloride	BB
2	2.82	0.003	0.322	Nitrate	BBI
3	4.29	0.025	3.975	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-15 20:31:06 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92388
Sample Position	25
Comment 1	300.0/9056A
Comment 2	

Anions



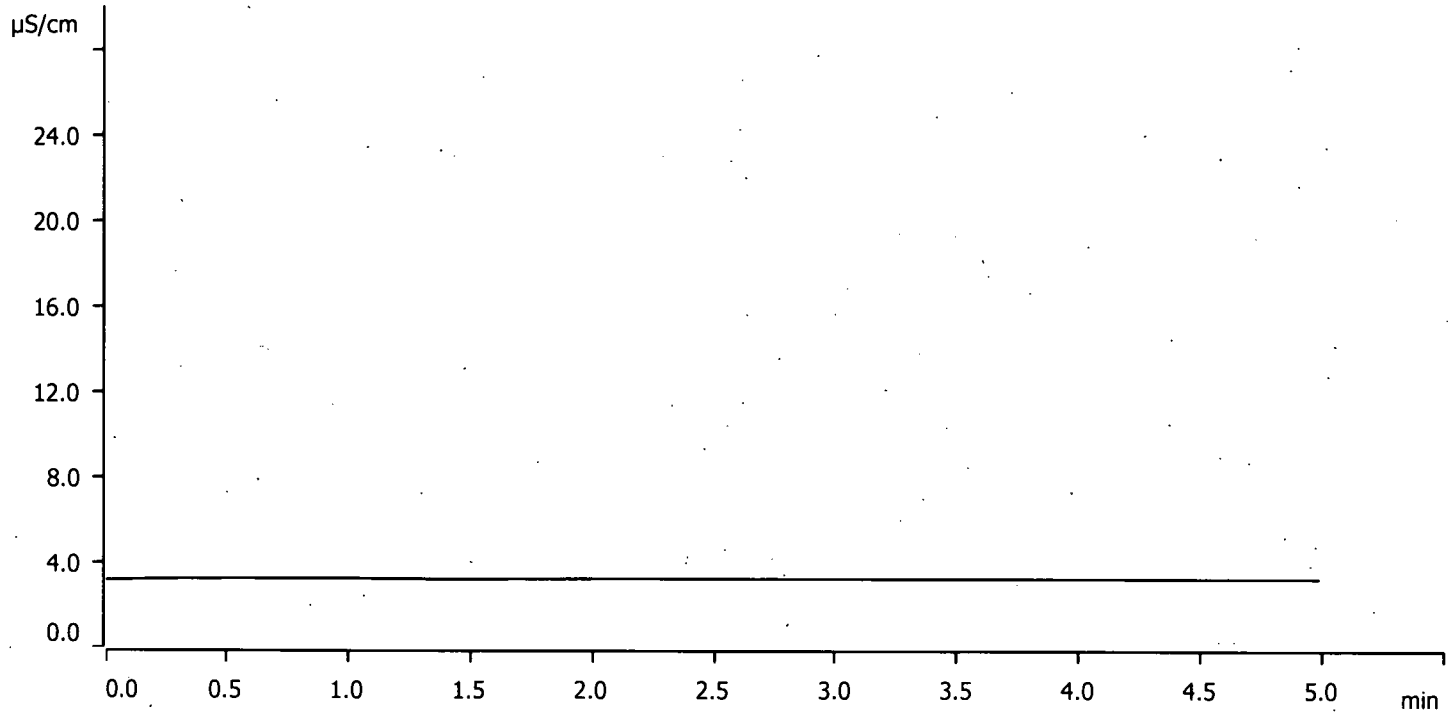
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.334	1.993	Fluoride	BB
2	1.91	0.397	4.095	Chloride	BB
3	2.22	0.472	2.043	Nitrite	BB
4	2.56	0.064	1.945	Bromide	BB
5	2.82	0.476	1.962	Nitrate	BB
6	4.29	0.265	3.968	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-15 20:38:21 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92389
Sample Position	26
Comment 1	300.0/9056A
Comment 2	

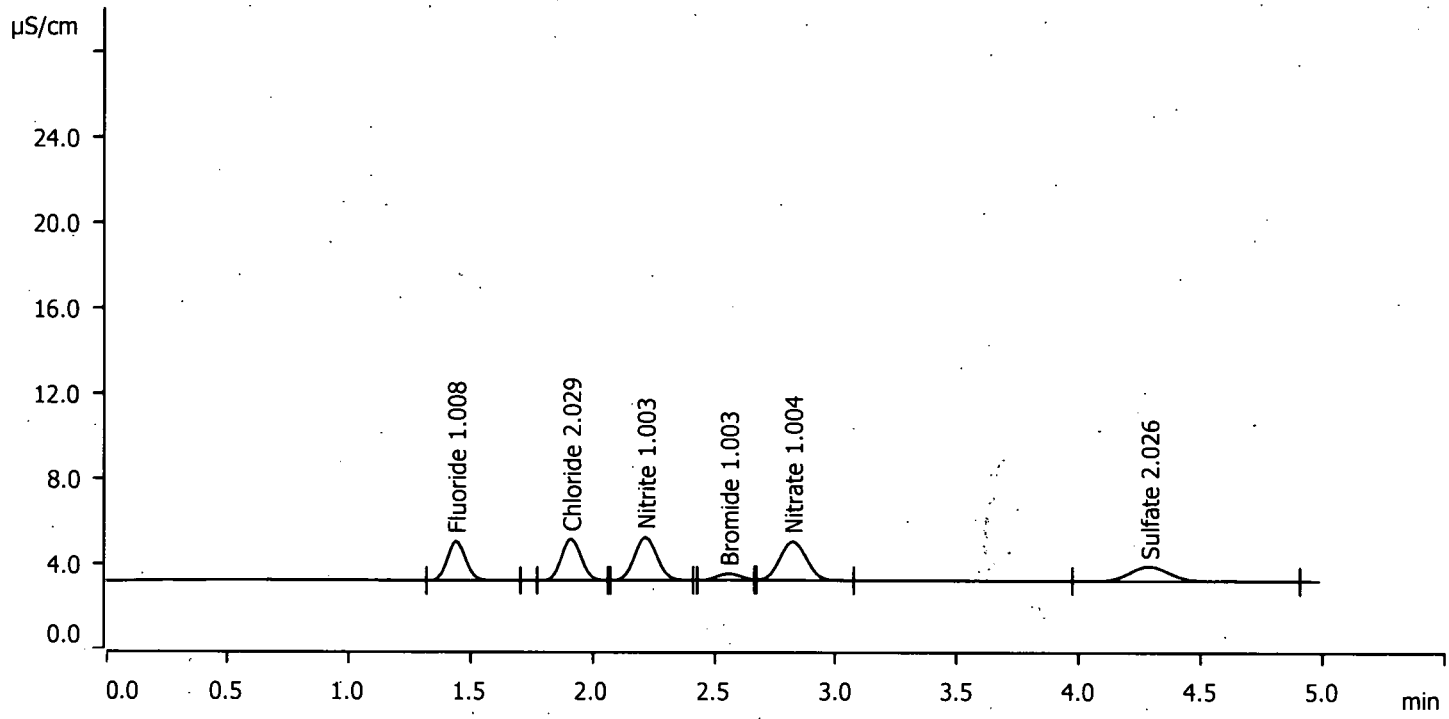
Anions



Sample data

Ident	LCS
Sample type	Check standard 2
Determination start	2024-09-15 20:46:30 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92390
Sample Position	27
Comment 1	300.0/9056A
Comment 2	

Anions



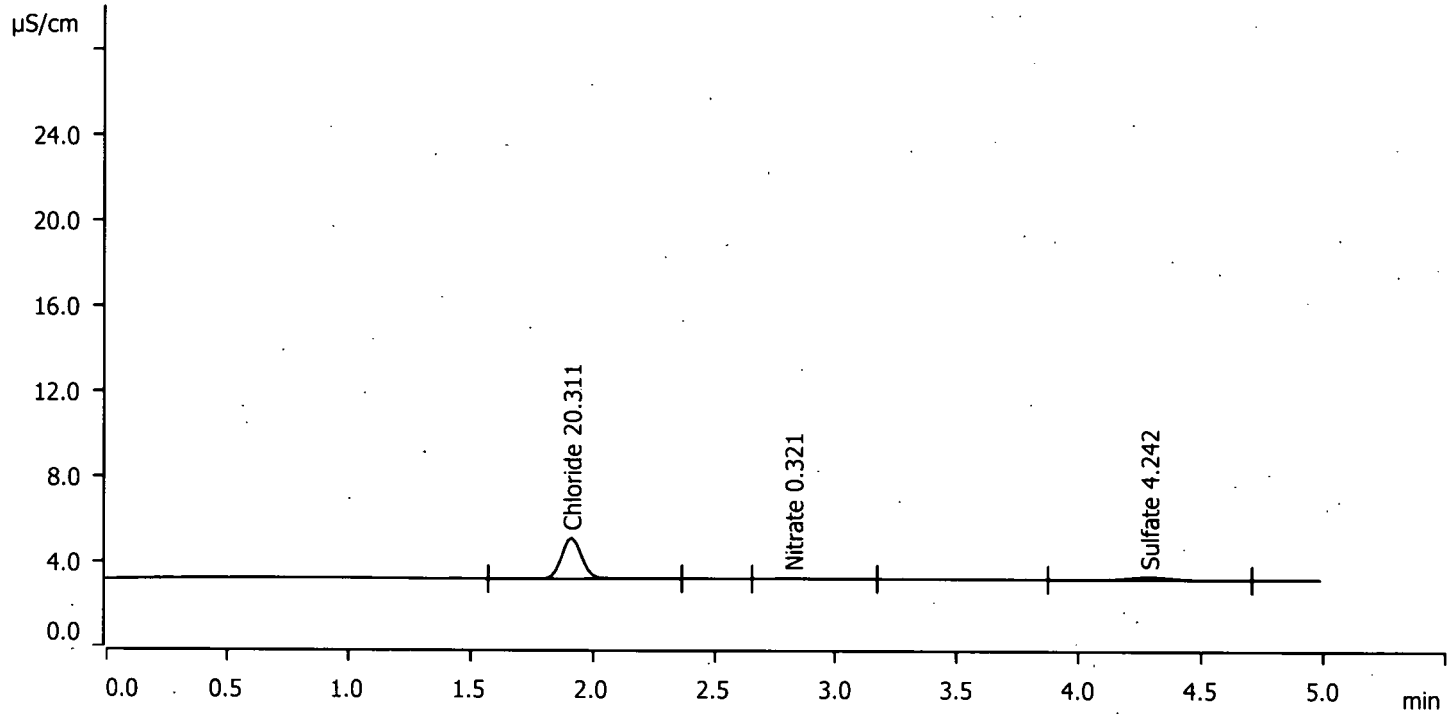
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.158	1.008	Fluoride	BB
2	1.92	0.183	2.029	Chloride	BB
3	2.22	0.217	1.003	Nitrite	BB
4	2.56	0.032	1.003	Bromide	BB
5	2.82	0.226	1.004	Nitrate	BB
6	4.29	0.130	2.026	Sulfate	BB

Sample data

Ident	R2408254-017
Sample type	Sample
Determination start	2024-09-15 20:54:12 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92391
Sample Position	28
Comment 1	300.0 C
Comment 2	

Anions



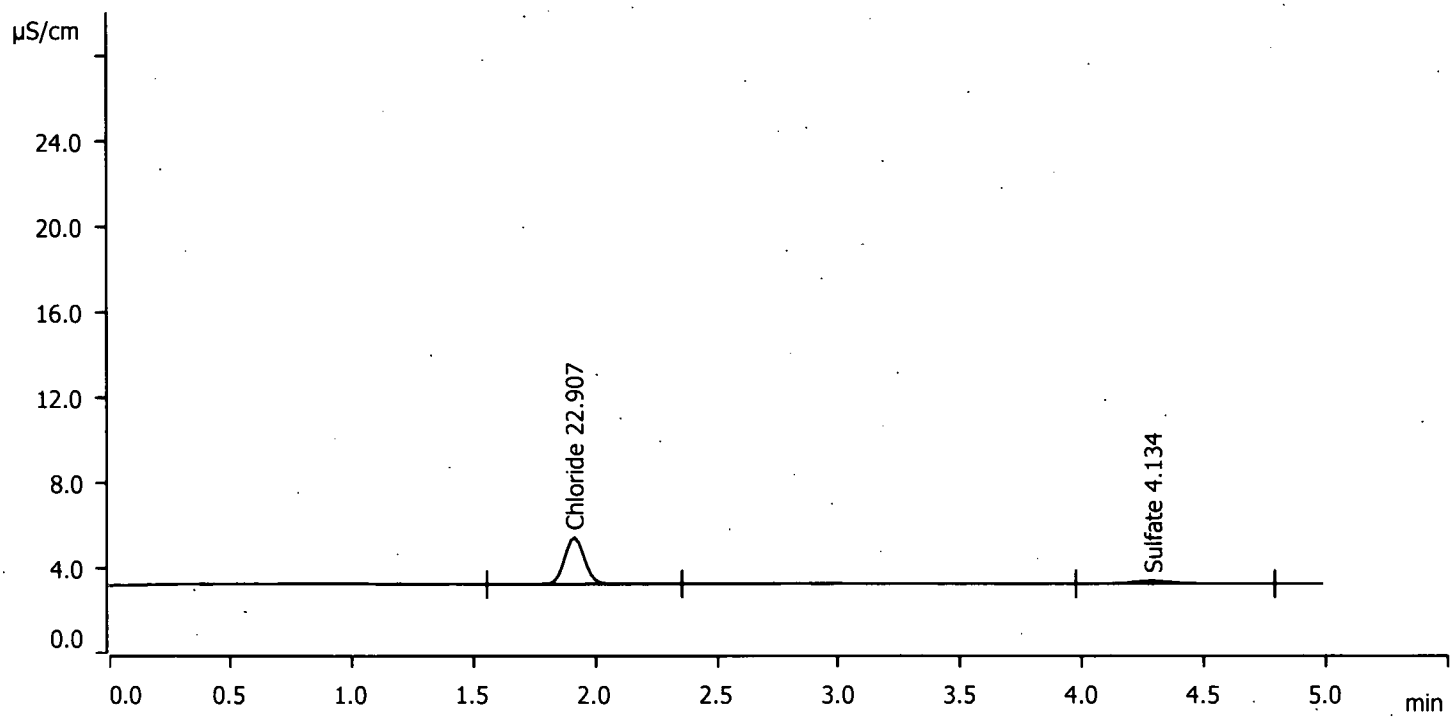
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.183	20.311	Chloride	BB
2	2.82	0.003	0.321	Nitrate	BB
3	4.29	0.026	4.242	Sulfate	BB

Sample data

Ident	R2408254-019
Sample type	Sample
Determination start	2024-09-15 21:00:28 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92392
Sample Position	29
Comment 1	300.0 C
Comment 2	

Anions



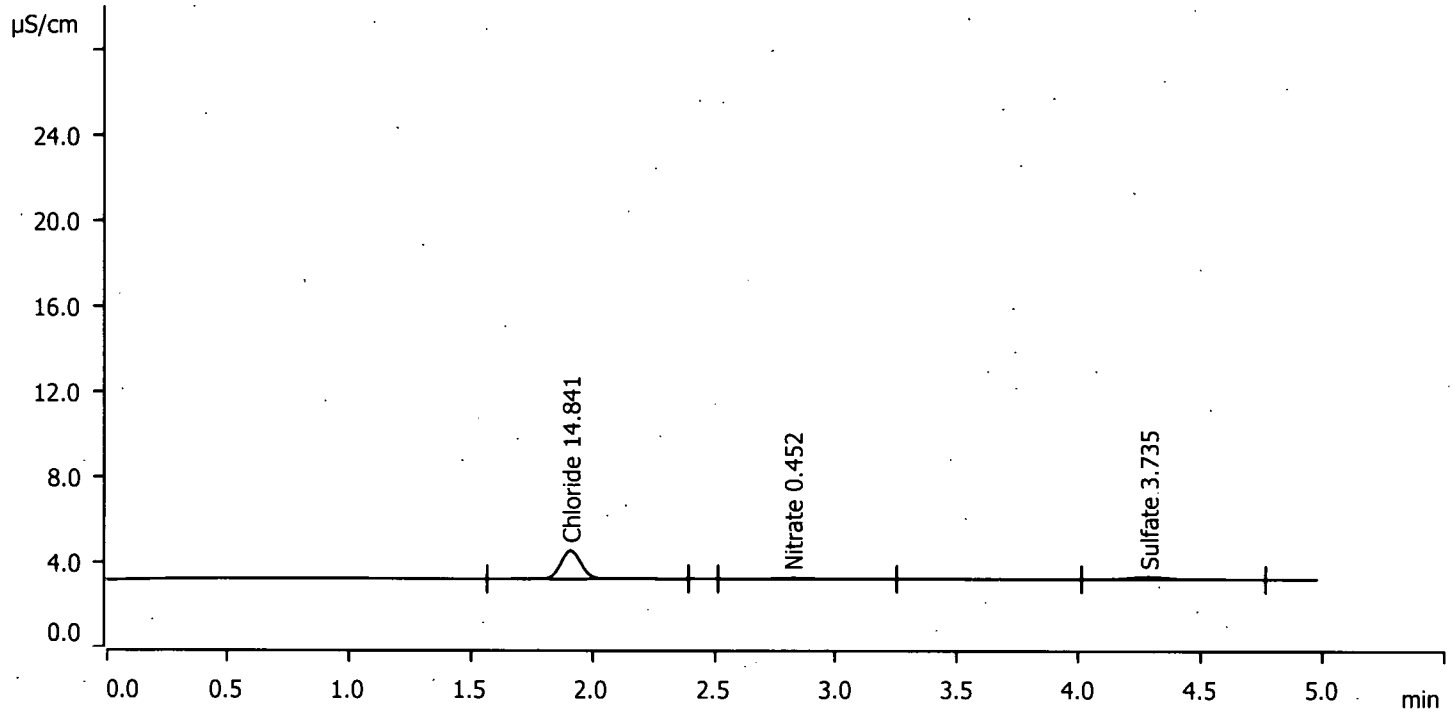
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.208	22.907	Chloride	BB
2	4.29	0.026	4.134	Sulfate	BB

Sample data

Ident	R2408254-021
Sample type	Sample
Determination start	2024-09-15 21:06:43 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92393
Sample Position	30
Comment 1	300.0 C
Comment 2	

Anions



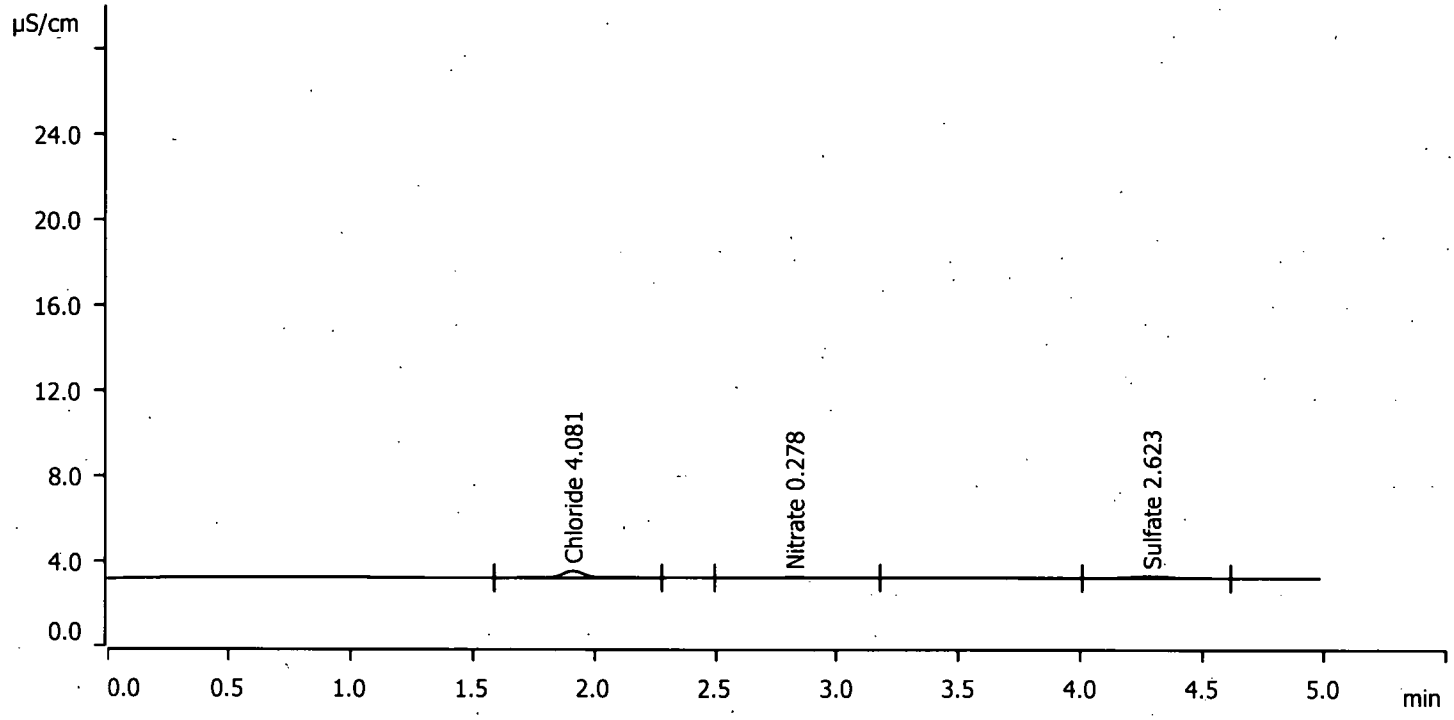
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.131	14.841	Chloride	BB
2	2.82	0.006	0.452	Nitrate	BB
3	4.29	0.023	3.735	Sulfate	BB

Sample data

Ident	R2408253-025
Sample type	Sample
Determination start	2024-09-15 21:12:58 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92394
Sample Position	31
Comment 1	300.0 C
Comment 2	

Anions



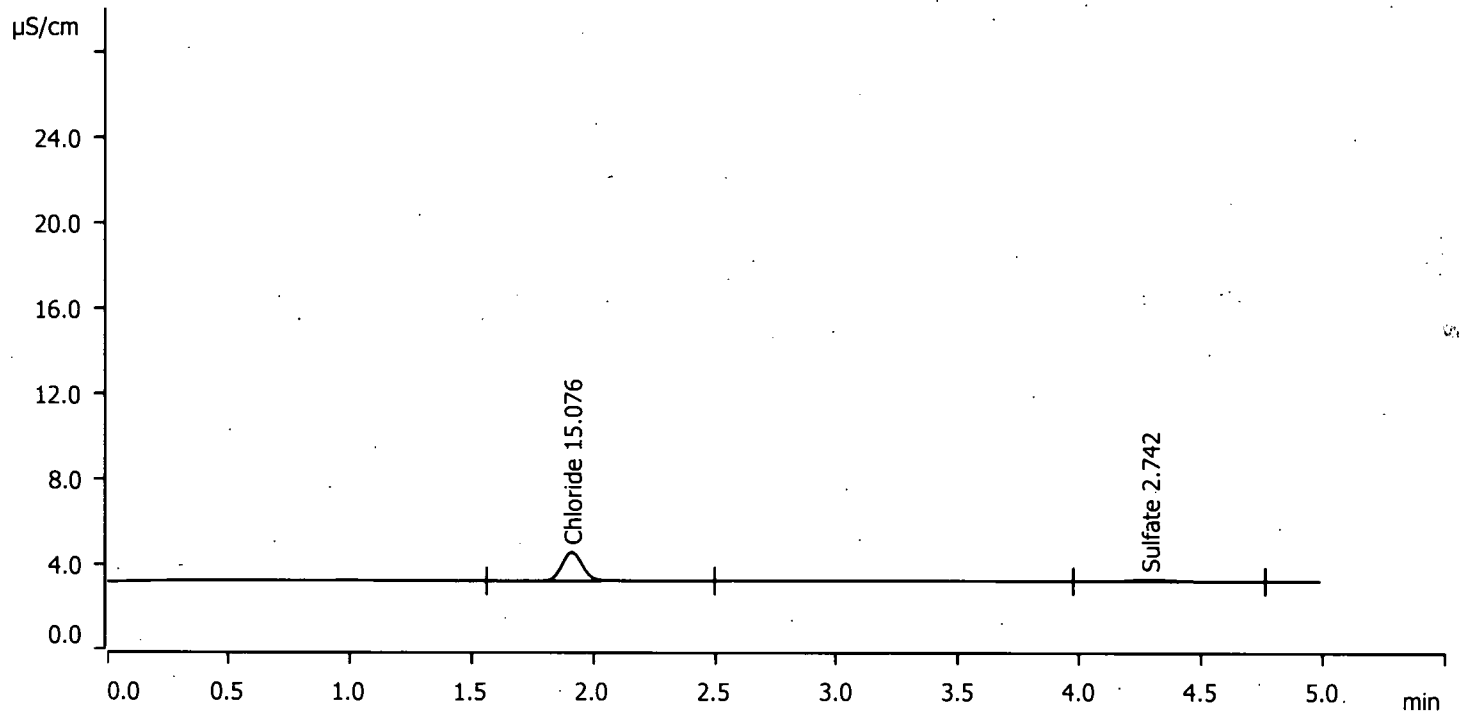
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.033	4.081	Chloride	BB
2	2.82	0.002	0.278	Nitrate	BB
3	4.29	0.016	2.623	Sulfate	BB

Sample data

Ident	R2408253-033
Sample type	Sample
Determination start	2024-09-15 21:19:13 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92395
Sample Position	32
Comment 1	300.0 C
Comment 2	

Anions



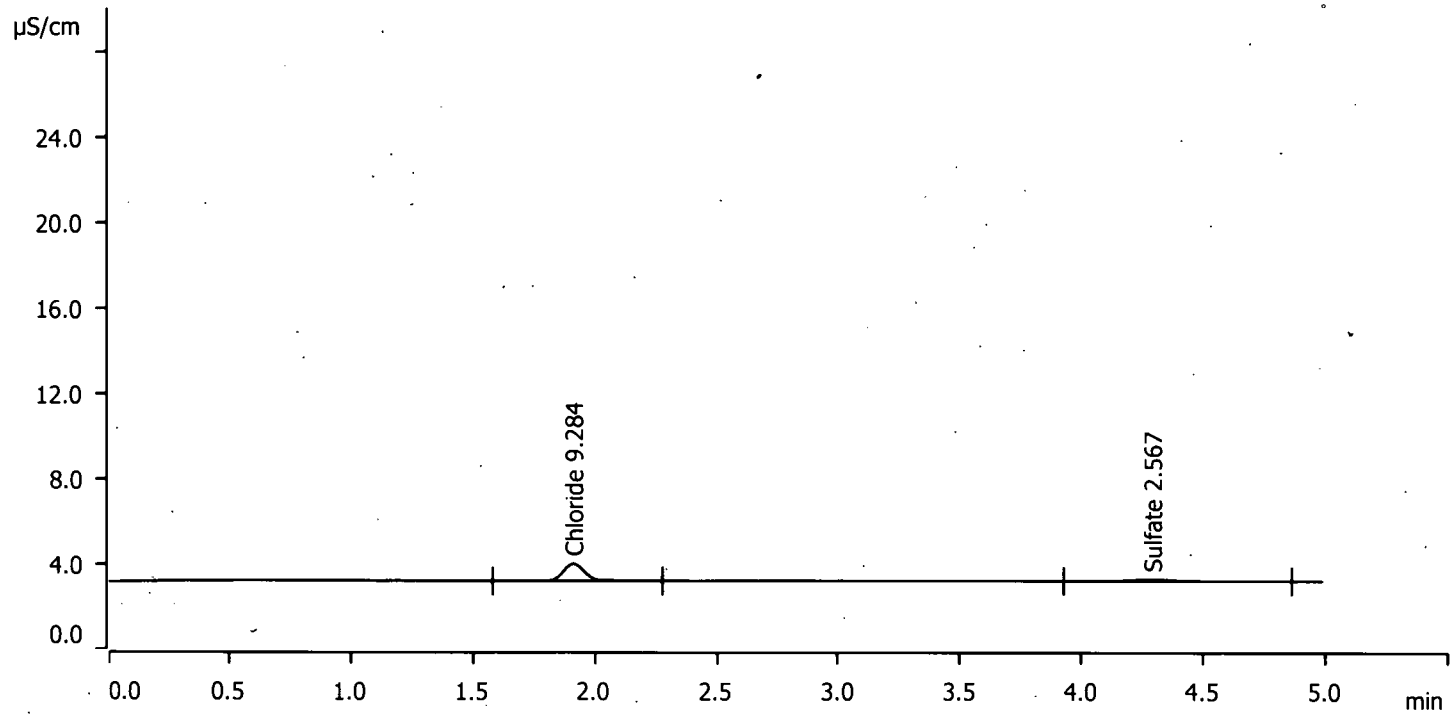
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.133	15.076	Chloride	BB
2	4.29	0.017	2.742	Sulfate	BB

Sample data

Ident	R2408253-035
Sample type	Sample
Determination start	2024-09-15 21:25:27 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92396
Sample Position	33
Comment 1	300.0 C
Comment 2	

Anions



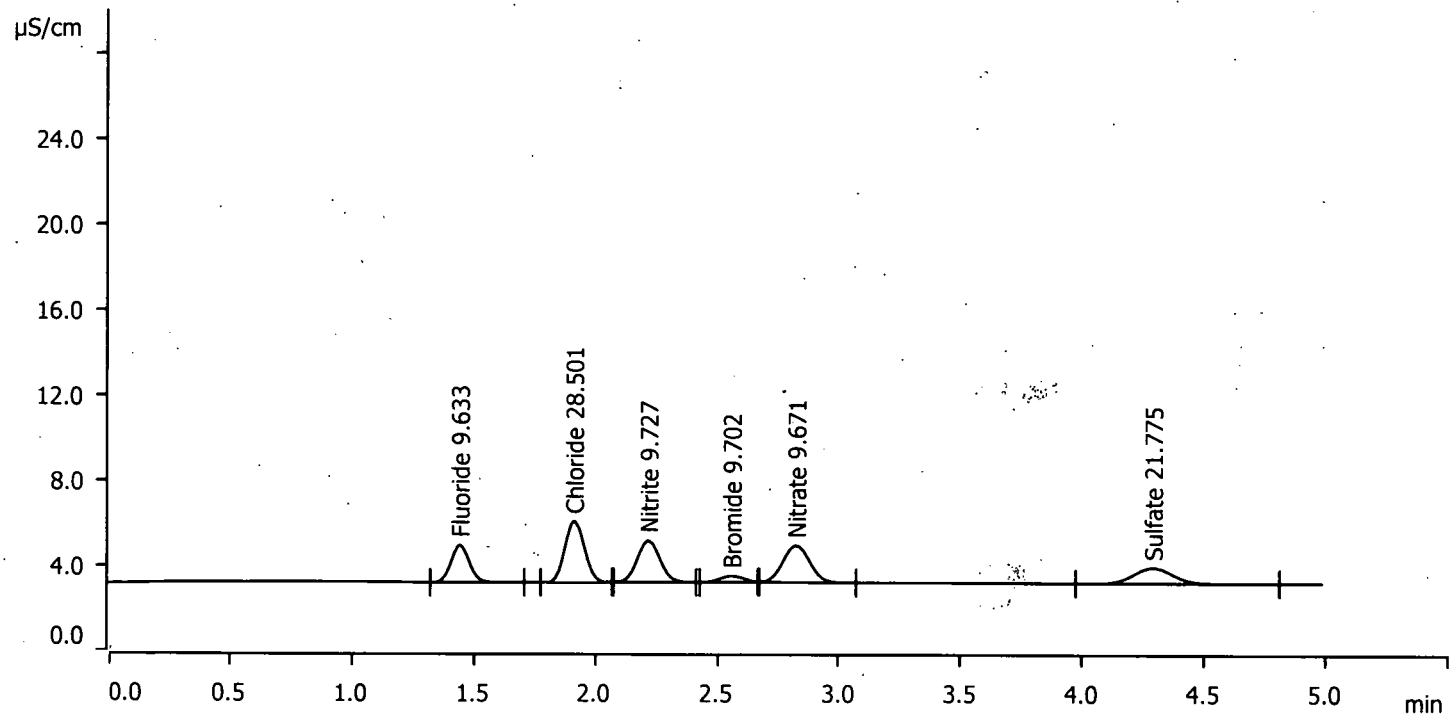
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.079	9.284	Chloride	BB
2	4.29	0.016	2.567	Sulfate	BB

Sample data

Ident	R2408253-035 MS
Sample type	Sample
Determination start	2024-09-15 21:31:42 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92397
Sample Position	34
Comment 1	300.0 C
Comment 2	

Anions



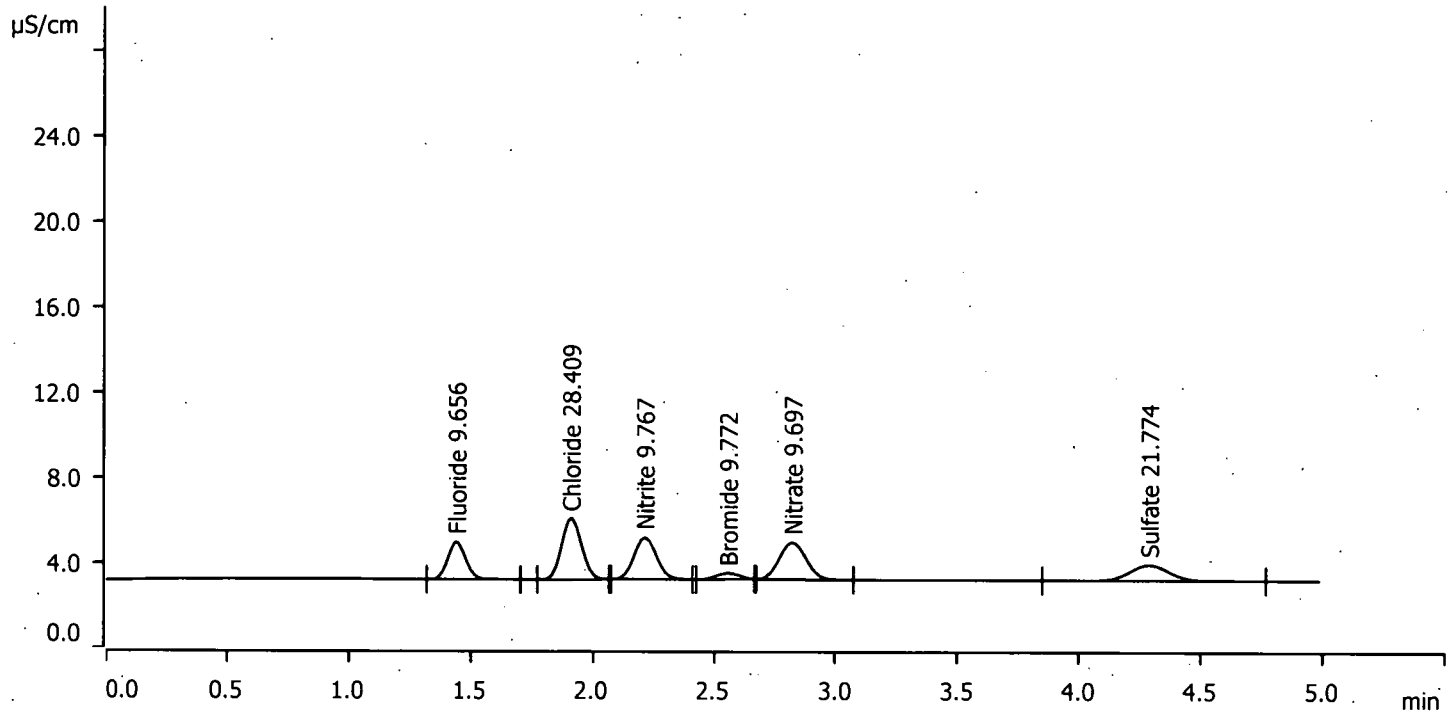
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.151	9.633	Fluoride	BB
2	1.92	0.265	28.501	Chloride	BB
3	2.22	0.210	9.727	Nitrite	BB
4	2.56	0.031	9.702	Bromide	BB
5	2.82	0.217	9.671	Nitrate	BB
6	4.29	0.140	21.775	Sulfate	BB

Sample data

Ident	R2408253-035 MSD
Sample type	Sample
Determination start	2024-09-15 21:37:57 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92398
Sample Position	35
Comment 1	300.0 C
Comment 2	

Anions



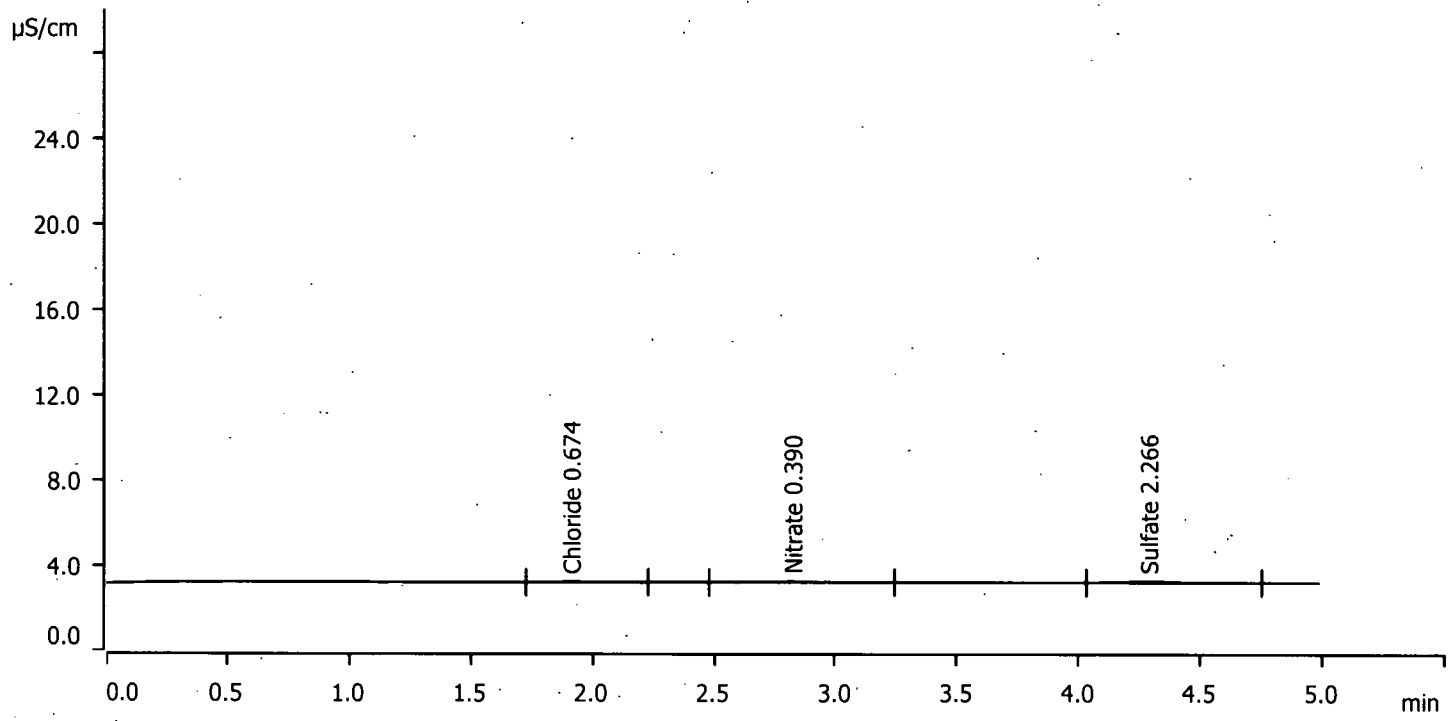
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.151	9.656	Fluoride	BB
2	1.91	0.264	28.409	Chloride	BB
3	2.22	0.211	9.767	Nitrite	BB
4	2.56	0.031	9.772	Bromide	BB
5	2.82	0.218	9.697	Nitrate	BB
6	4.29	0.140	21.774	Sulfate	BB

Sample data

Ident	R2408253-037
Sample type	Sample
Determination start	2024-09-15 21:44:13 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92399
Sample Position	36
Comment 1	300.0 C
Comment 2	

Anions



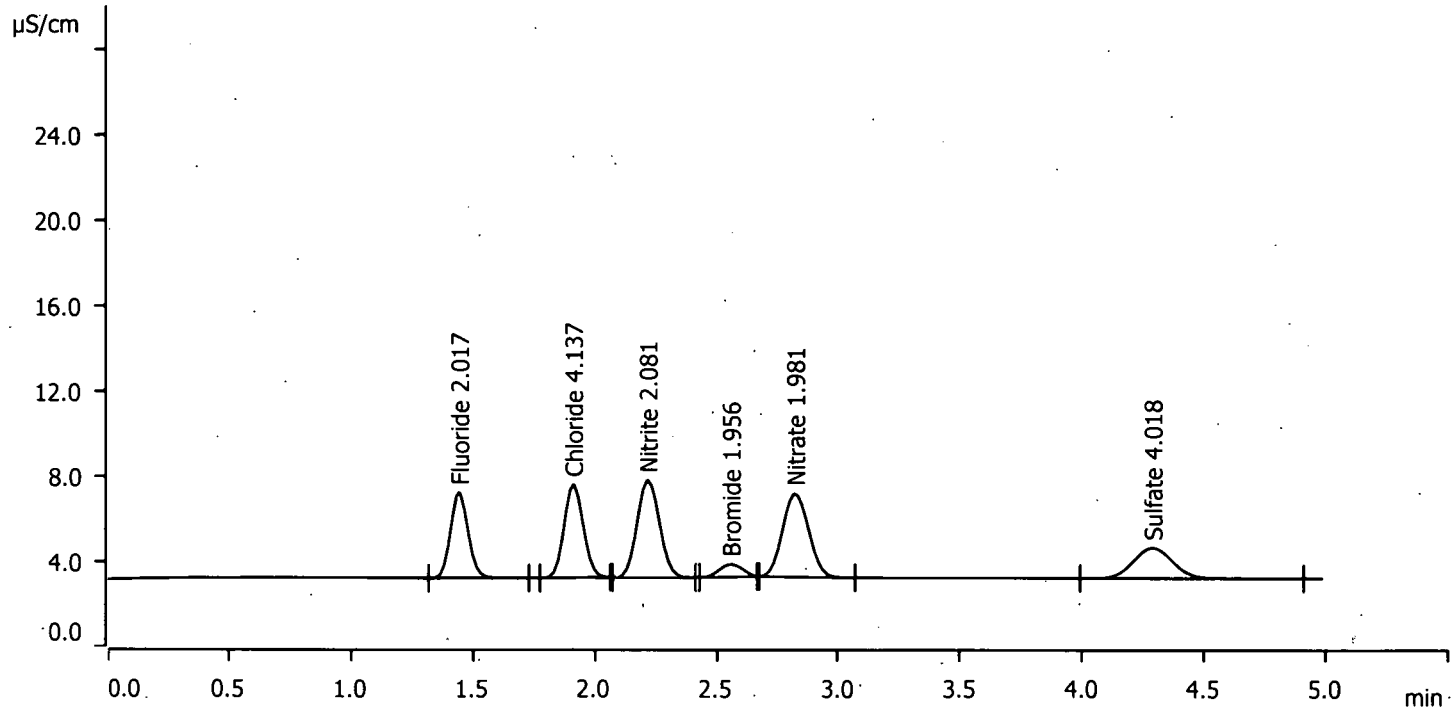
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.004	0.674	Chloride	BB
2	2.82	0.004	0.390	Nitrate	BB
3	4.29	0.014	2.266	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-15 21:50:28 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92400
Sample Position	37
Comment 1	300.0/9056A
Comment 2	

Anions



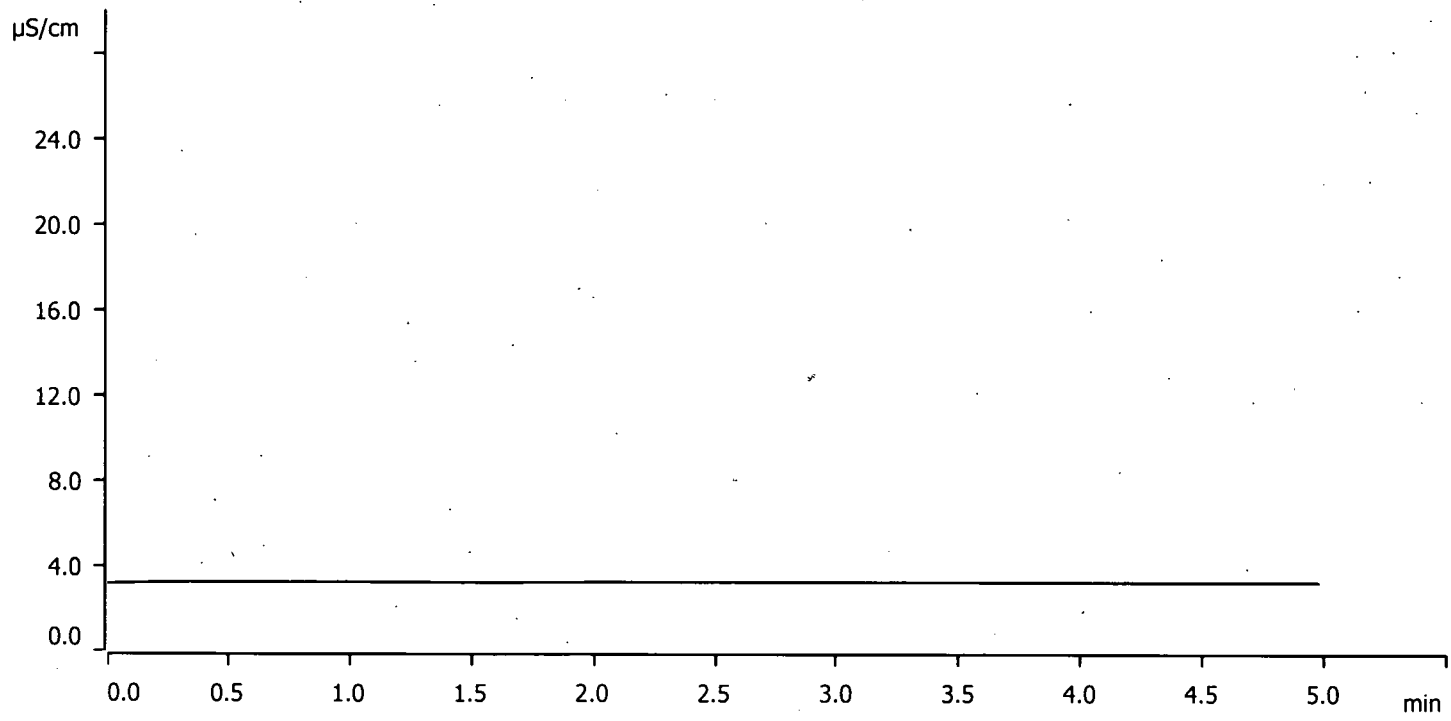
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.338	2.017	Fluoride	BB
2	1.92	0.401	4.137	Chloride	BB
3	2.22	0.481	2.081	Nitrite	BB
4	2.56	0.065	1.956	Bromide	BB
5	2.82	0.482	1.981	Nitrate	BB
6	4.29	0.269	4.018	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-15 21:56:44 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92401
Sample Position	38
Comment 1	300.0/9056A
Comment 2	

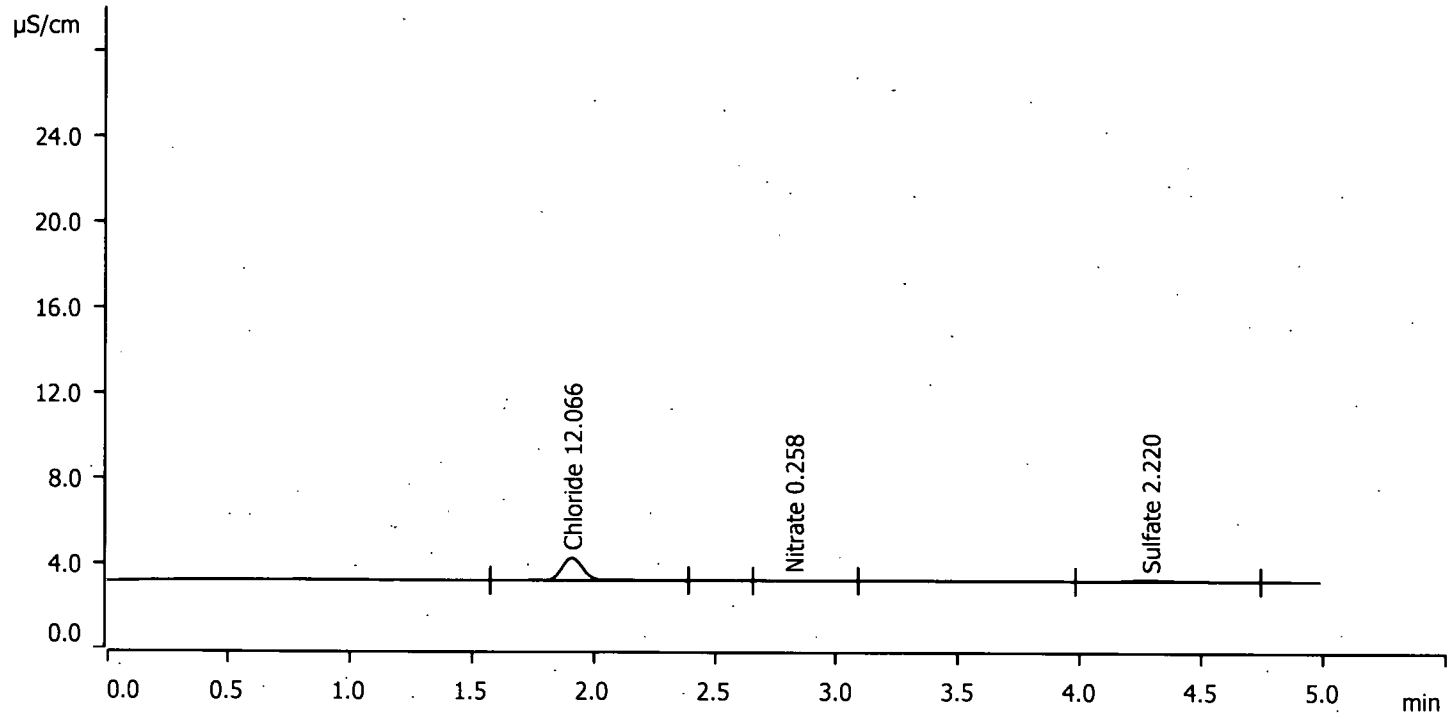
Anions



Sample data

Ident	R2408253-039
Sample type	Sample
Determination start	2024-09-15 22:02:58 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92402
Sample Position	39
Comment 1	300.0 C
Comment 2	

Anions



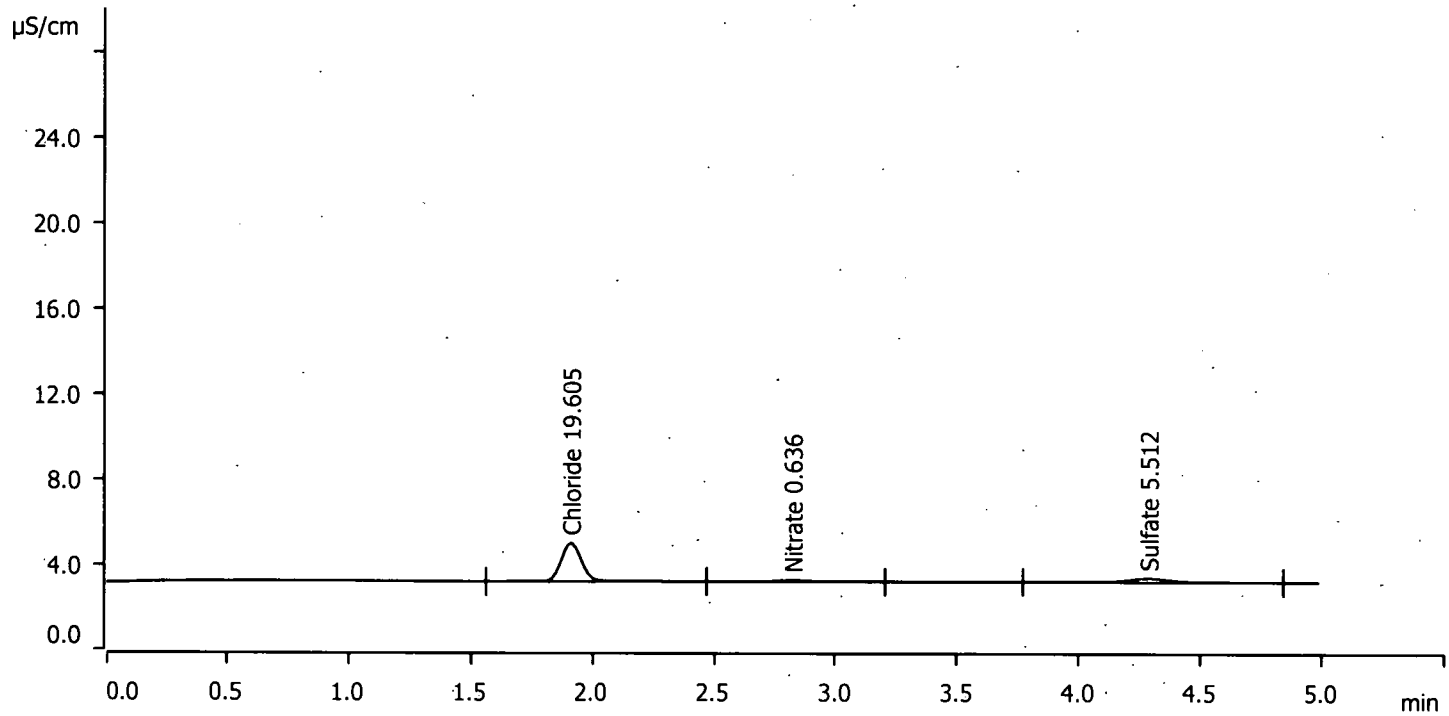
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.105	12.066	Chloride	BB
2	2.82	0.001	0.258	Nitrate	BB
3	4.29	0.014	2.220	Sulfate	BB

Sample data

Ident	R2408254-023
Sample type	Sample
Determination start	2024-09-15 22:09:13 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92403
Sample Position	40
Comment 1	300.0 C
Comment 2	

Anions



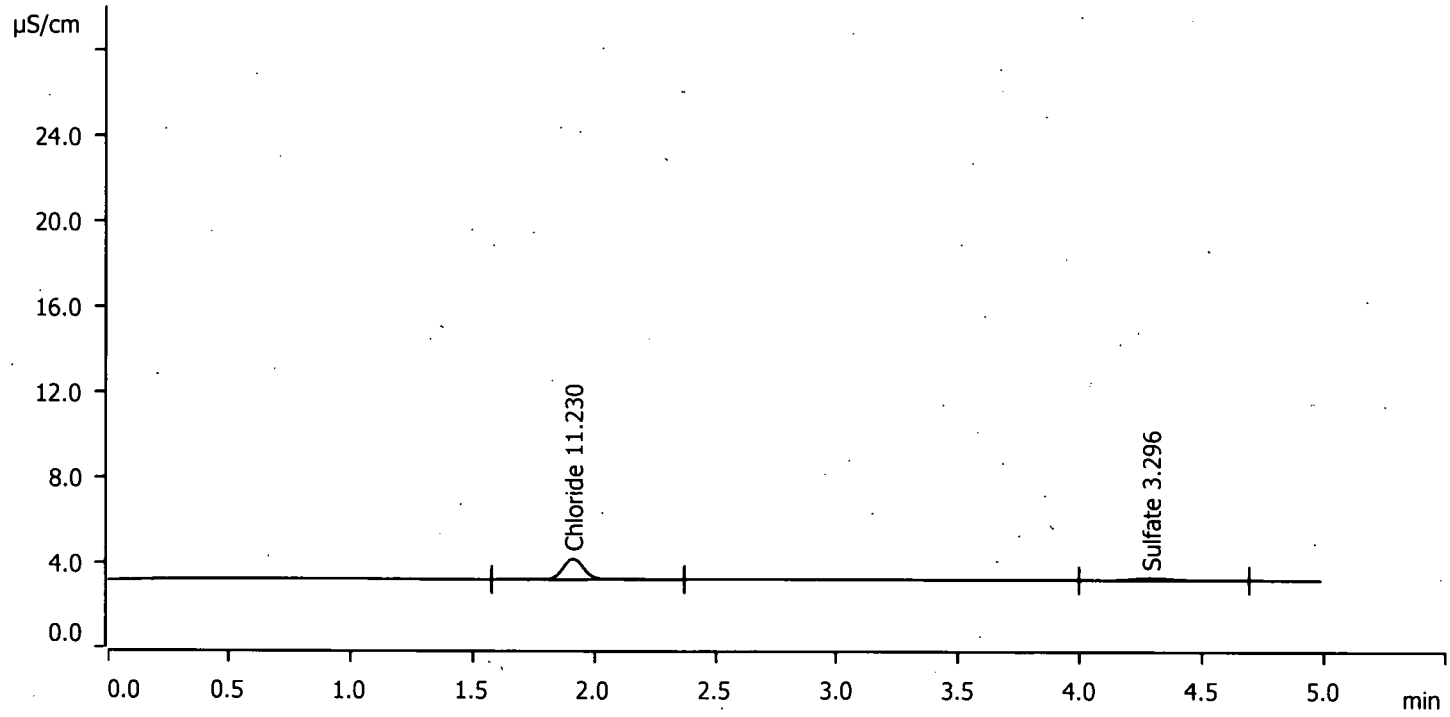
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.176	19.605	Chloride	BB
2	2.82	0.010	0.636	Nitrate	BB
3	4.29	0.034	5.512	Sulfate	BB

Sample data

Ident	R2408254-025
Sample type	Sample
Determination start	2024-09-15 22:15:28 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92404
Sample Position	41
Comment 1	300.0 C
Comment 2	

Anions



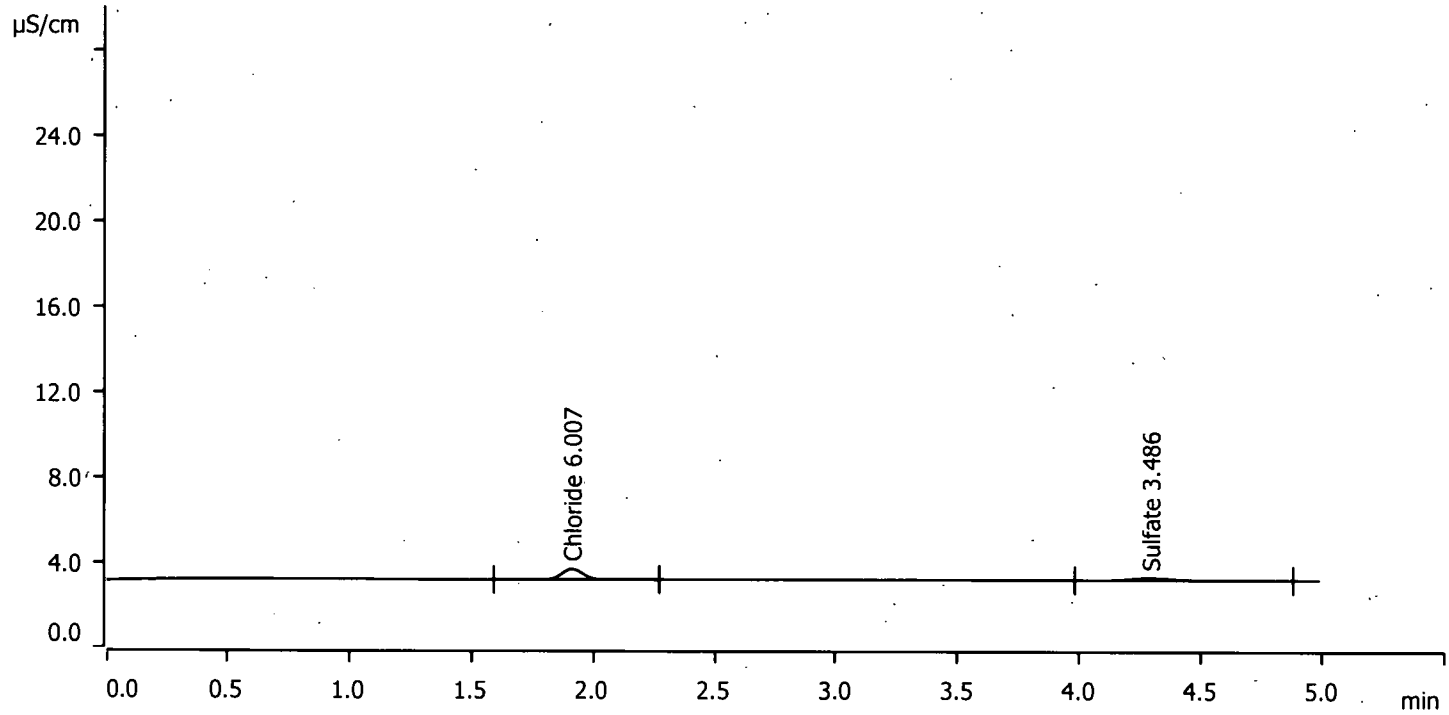
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.097	11.230	Chloride	BB
2	4.29	0.020	3.296	Sulfate	BB

Sample data

Ident	R2408254-027
Sample type	Sample
Determination start	2024-09-15 22:21:42 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92405
Sample Position	42
Comment 1	300.0 C
Comment 2	

Anions



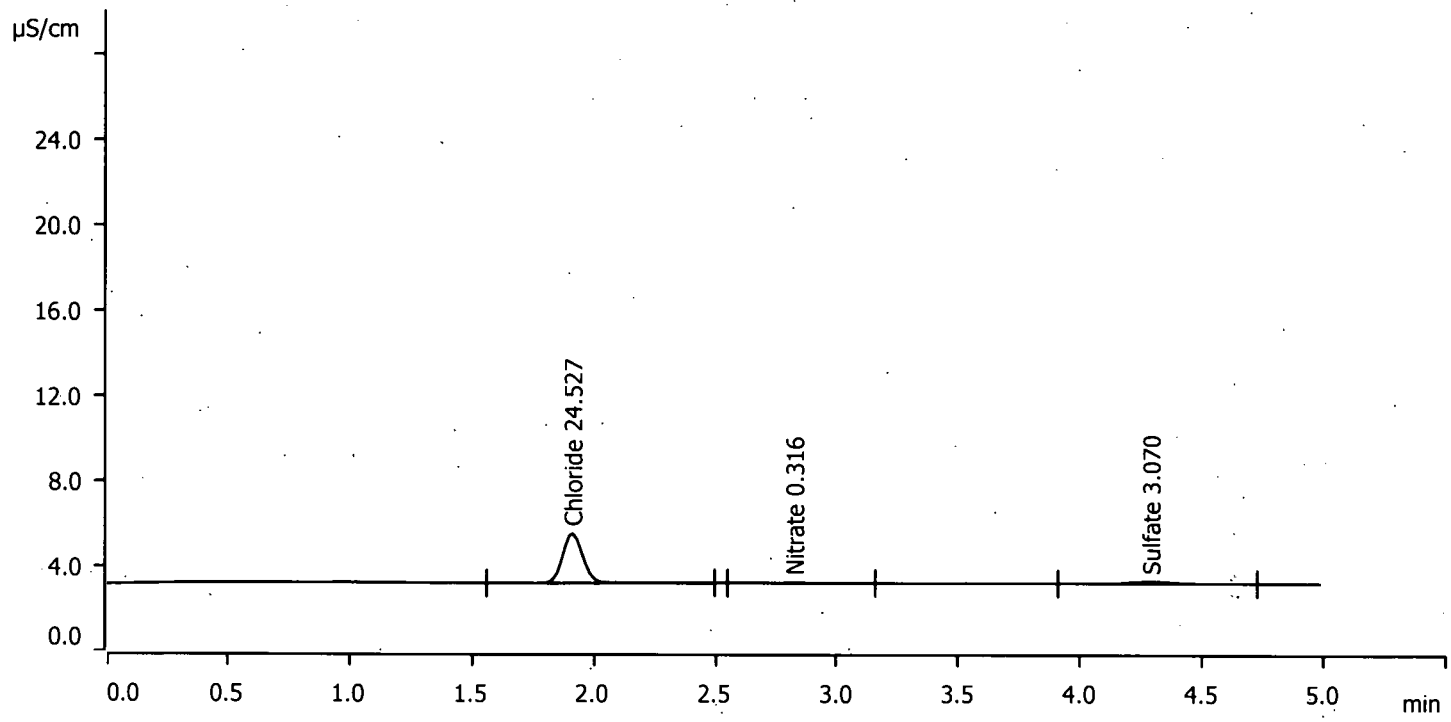
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.050	6.007	Chloride	BB
2	4.29	0.022	3.486	Sulfate	BB

Sample data

Ident	R2408254-029
Sample type	Sample
Determination start	2024-09-15 22:27:57 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92406
Sample Position	43
Comment 1	300.0 C
Comment 2	

Anions



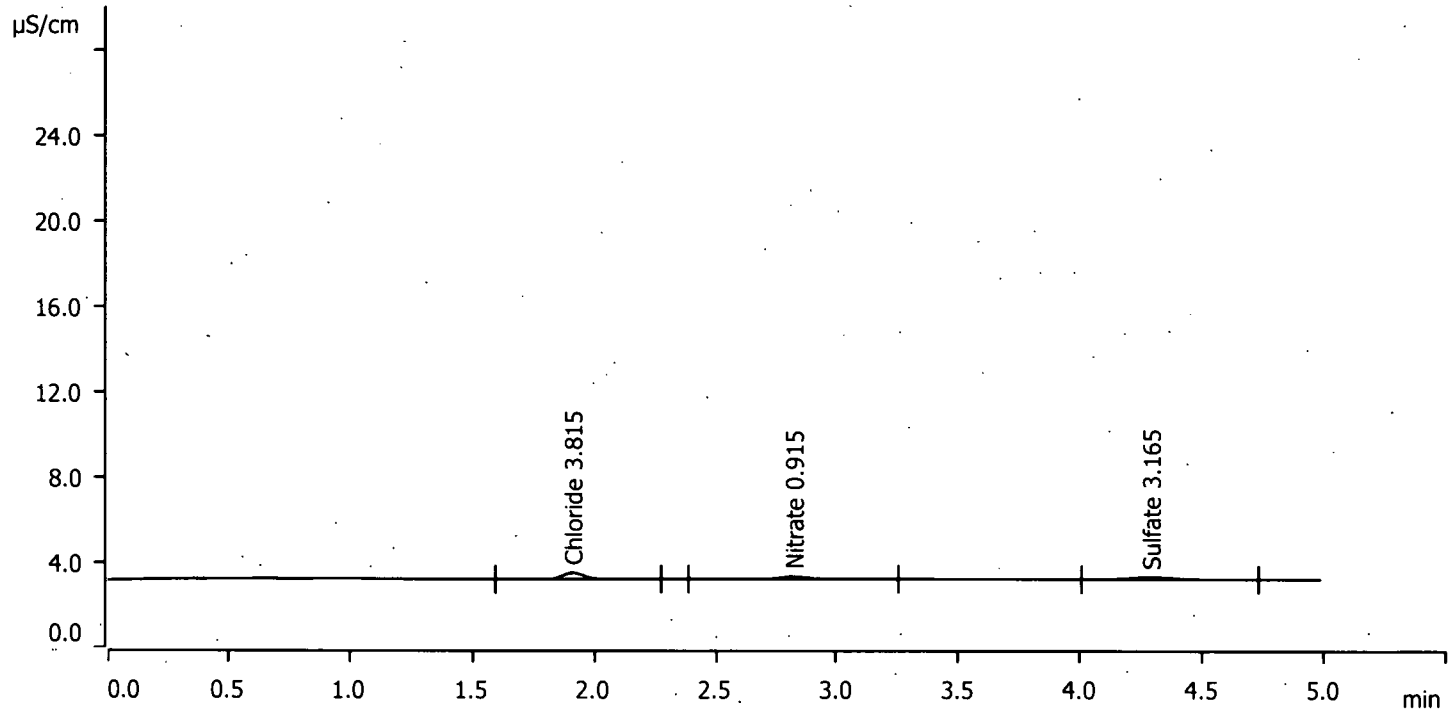
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.224	24.527	Chloride	BB
2	2.82	0.003	0.316	Nitrate	BB
3	4.29	0.019	3.070	Sulfate	BB

Sample data

Ident	R2408254-031
Sample type	Sample
Determination start	2024-09-15 22:34:12 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92407
Sample Position	44
Comment 1	300.0 C
Comment 2	

Anions



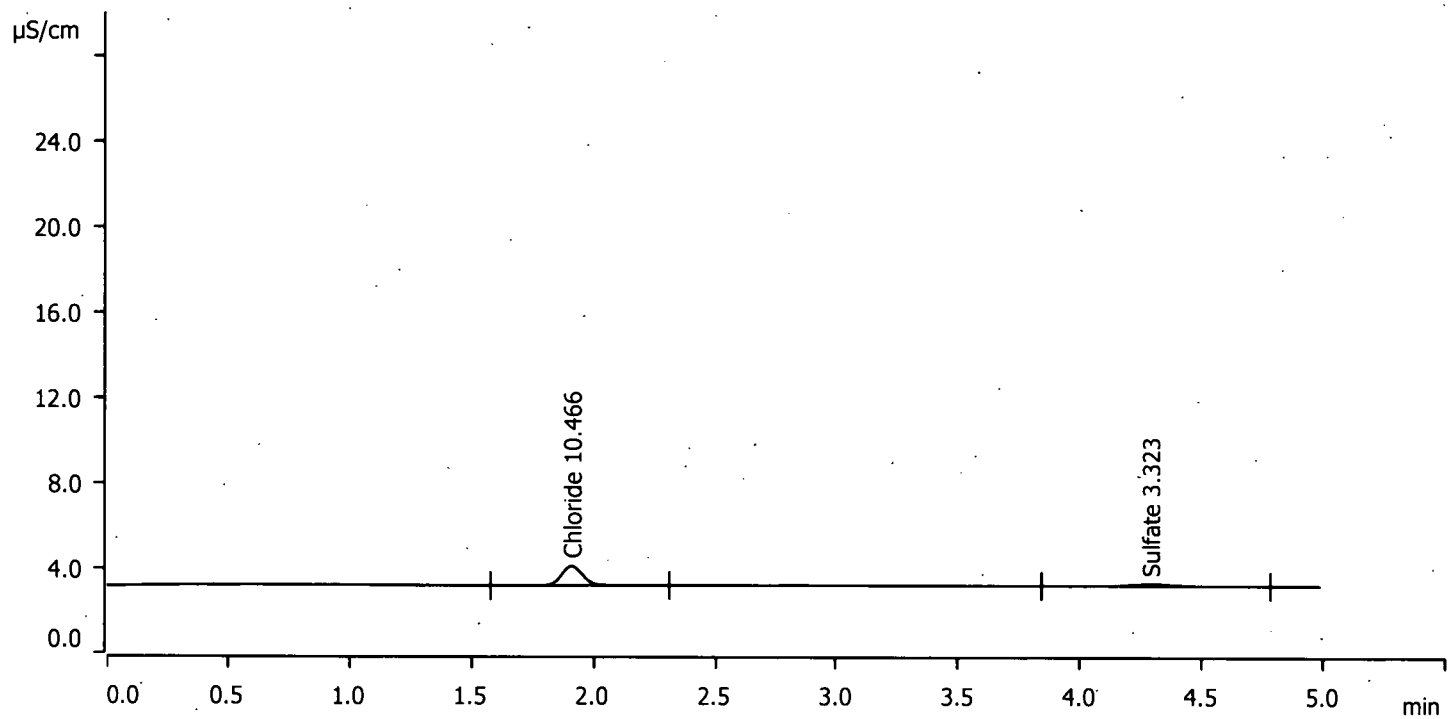
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.031	3.815	Chloride	BB
2	2.82	0.016	0.915	Nitrate	BB
3	4.29	0.020	3.165	Sulfate	BB

Sample data

Ident	R2408254-033
Sample type	Sample
Determination start	2024-09-15 22:40:26 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92408
Sample Position	45
Comment 1	300.0 C
Comment 2	

Anions



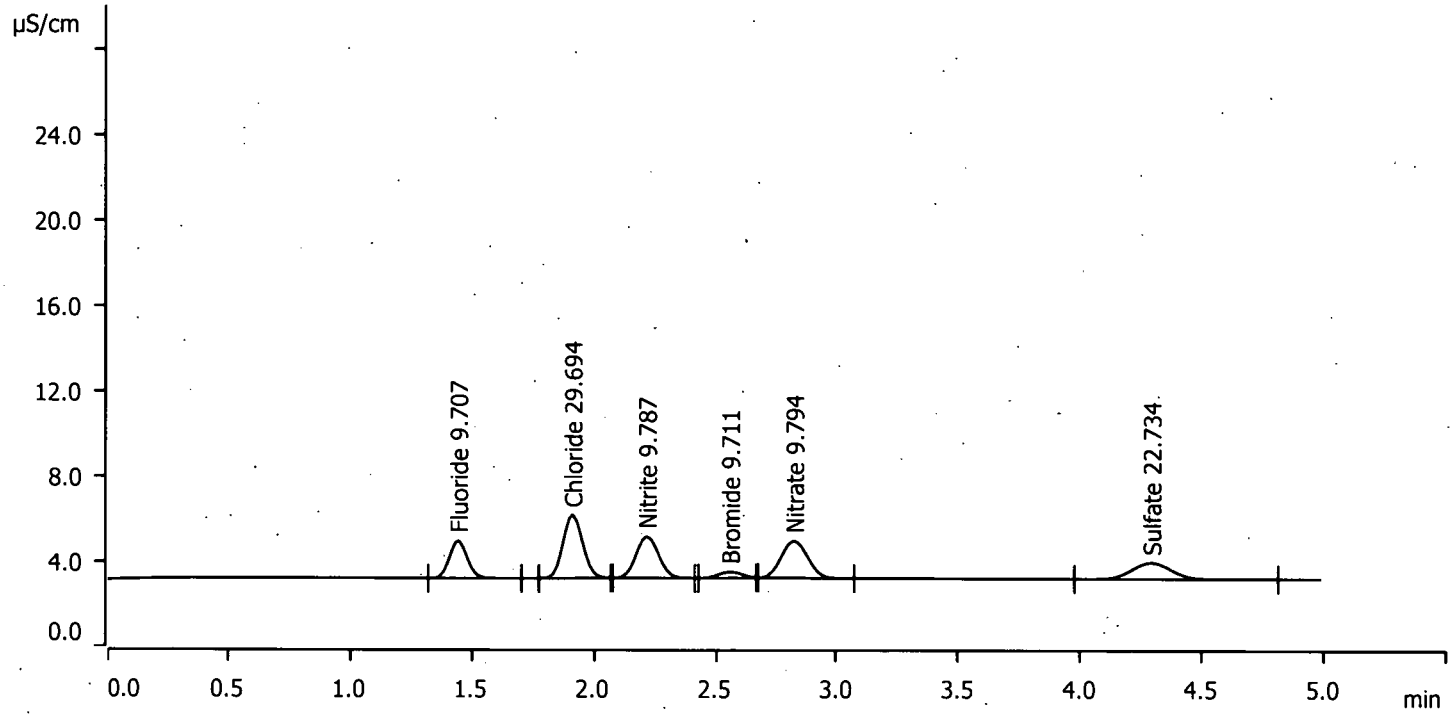
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.090	10.466	Chloride	BB
2	4.29	0.021	3.323	Sulfate	BB

Sample data

Ident	R2408254-033 MS
Sample type	Sample
Determination start	2024-09-15 22:46:45 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92409
Sample Position	46
Comment 1	300.0 C
Comment 2	

Anions



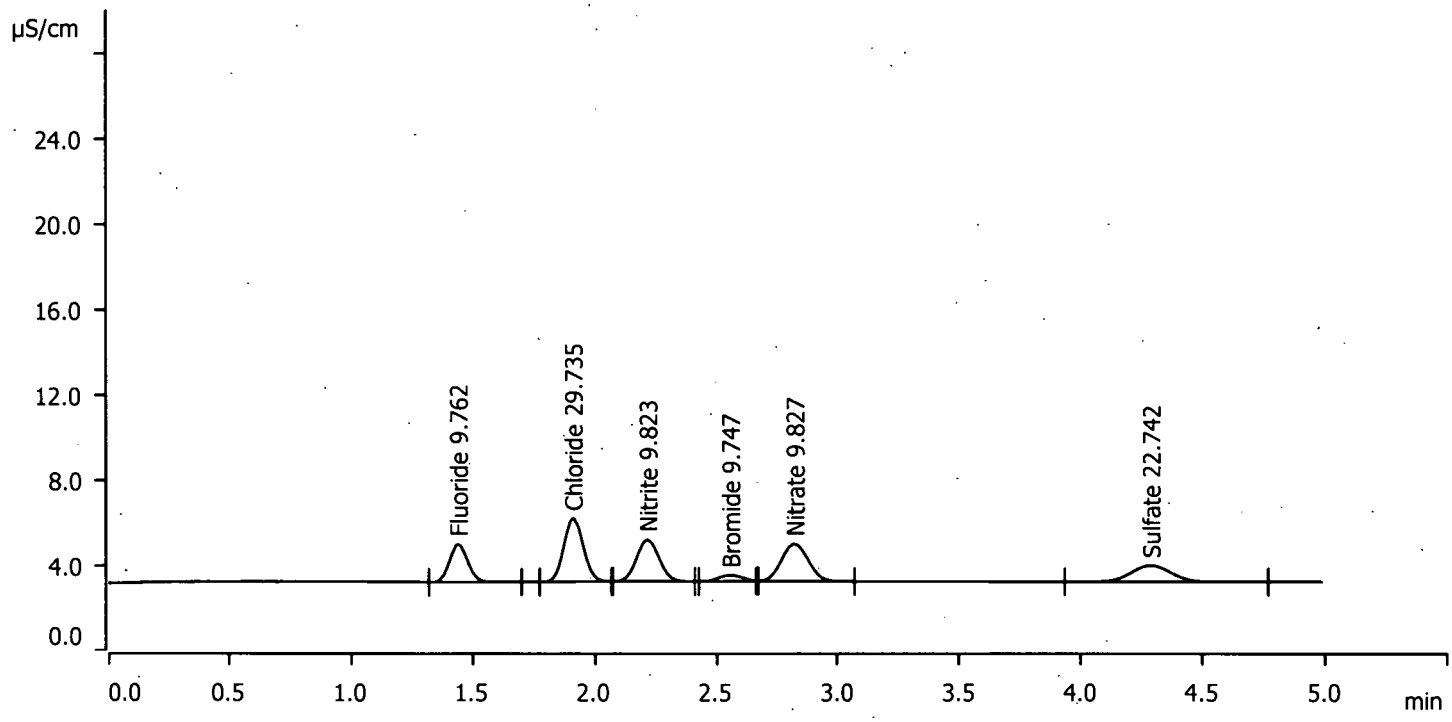
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.152	9.707	Fluoride	BB
2	1.92	0.277	29.694	Chloride	BB
3	2.22	0.211	9.787	Nitrite	BB
4	2.56	0.031	9.711	Bromide	BB
5	2.82	0.220	9.794	Nitrate	BB
6	4.29	0.147	22.734	Sulfate	BB

Sample data

Ident	R2408254-033 MSD
Sample type	Sample
Determination start	2024-09-15 22:53:00 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92410
Sample Position	47
Comment 1	300.0 C
Comment 2	

Anions



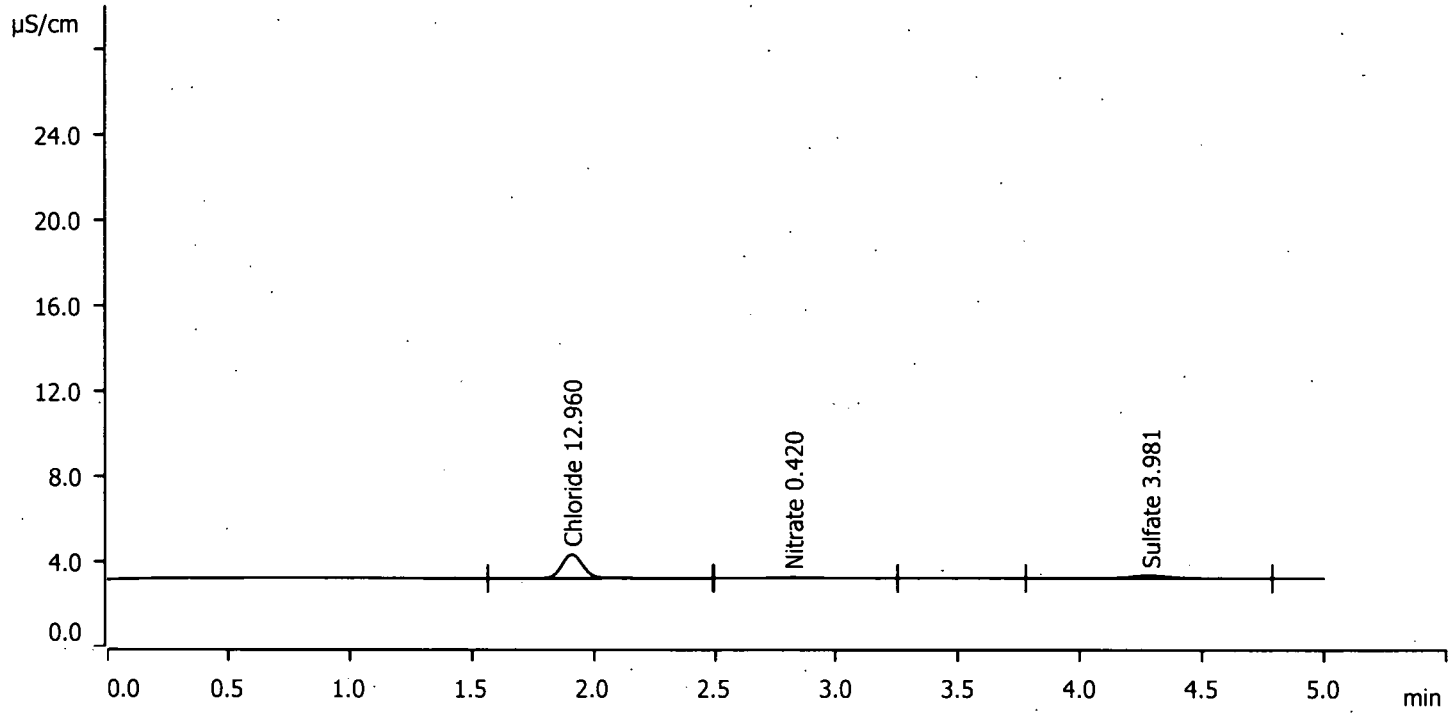
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.153	9.762	Fluoride	BB
2	1.91	0.277	29.735	Chloride	BB
3	2.22	0.212	9.823	Nitrite	BB
4	2.56	0.031	9.747	Bromide	BB
5	2.82	0.221	9.827	Nitrate	BB
6	4.29	0.147	22.742	Sulfate	BB

Sample data

Ident	R2408254-035
Sample type	Sample
Determination start	2024-09-15 22:59:16 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92411
Sample Position	48
Comment 1	300.0 C
Comment 2	

Anions



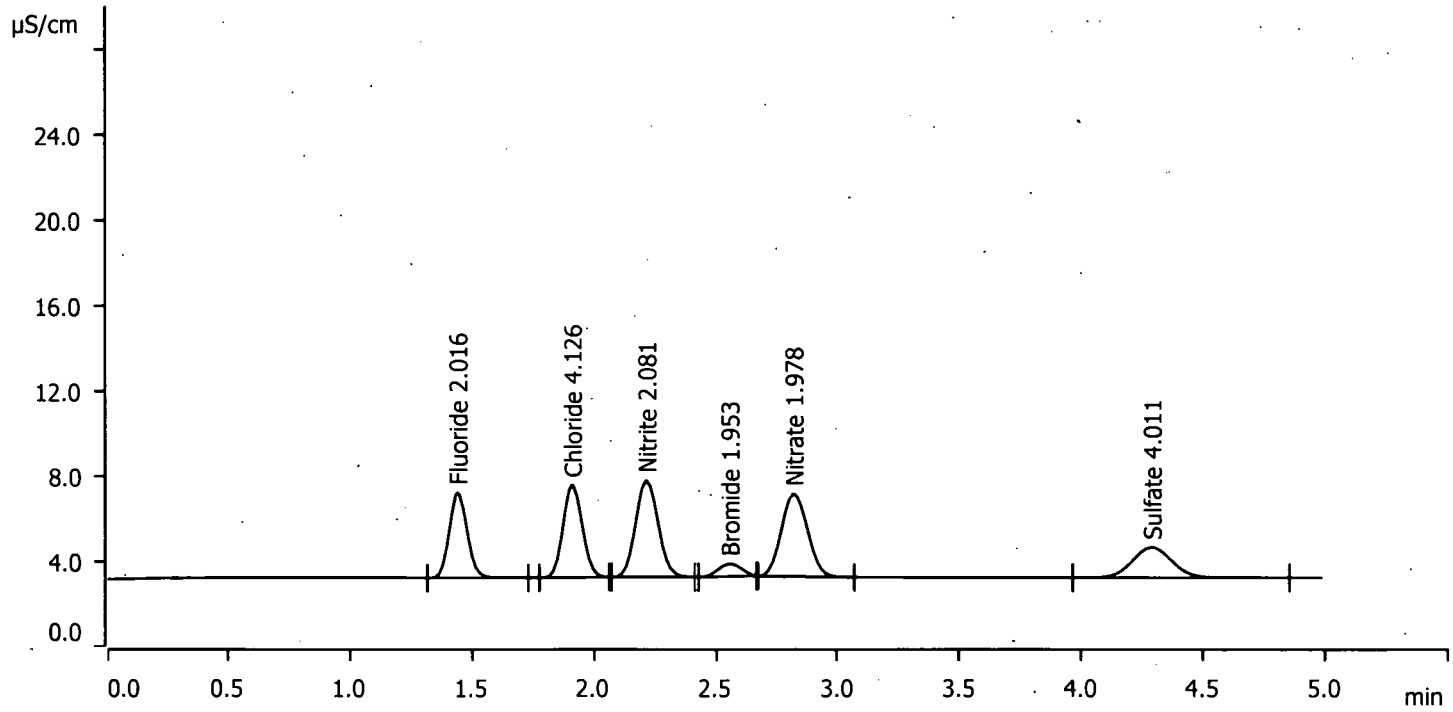
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.90	0.113	12.960	Chloride	BB
2	2.81	0.005	0.420	Nitrate	BB
3	4.27	0.025	3.981	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-15 23:05:31 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92412
Sample Position	49
Comment 1	300.0/9056A
Comment 2	

Anions



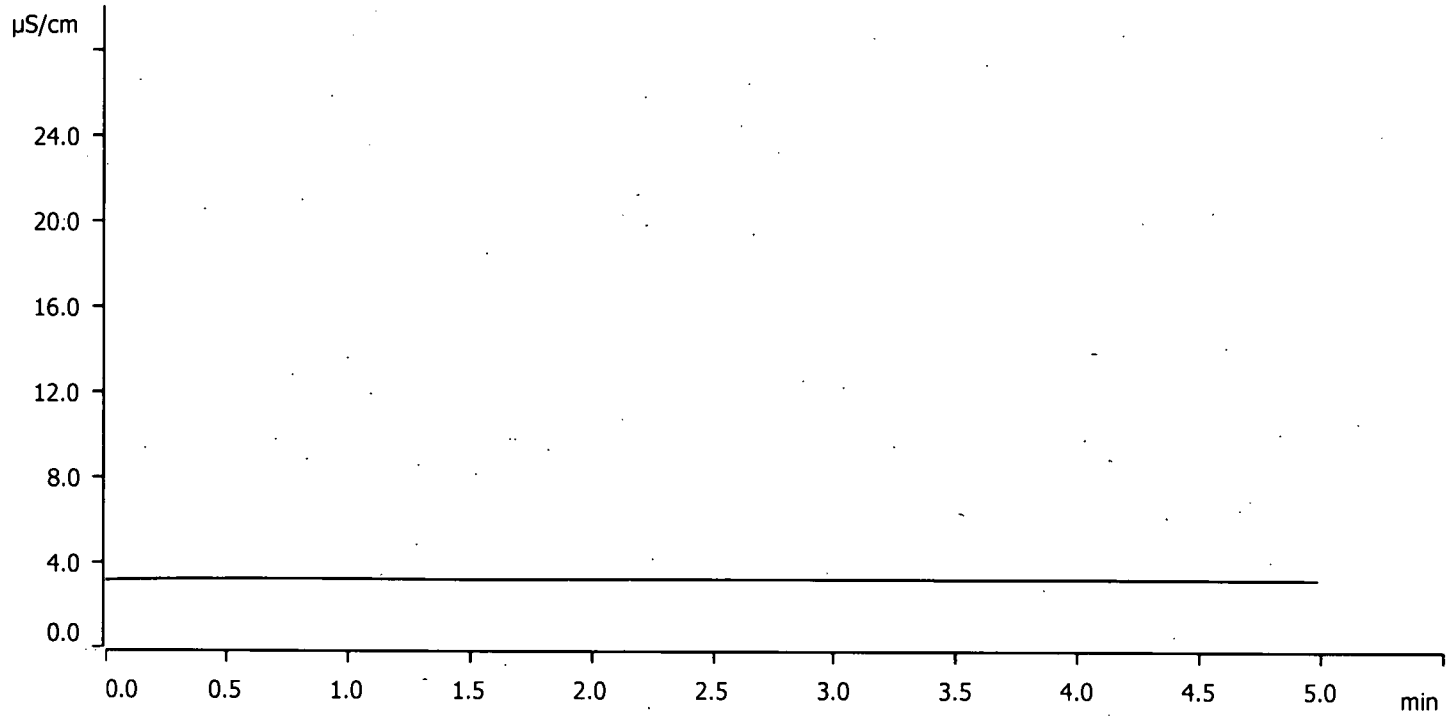
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.338	2.016	Fluoride	BB
2	1.91	0.400	4.126	Chloride	BB
3	2.22	0.481	2.081	Nitrite	BB
4	2.56	0.065	1.953	Bromide	BB
5	2.82	0.481	1.978	Nitrate	BB
6	4.29	0.268	4.011	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-15 23:11:47 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92413
Sample Position	50
Comment 1	300.0/9056A
Comment 2	

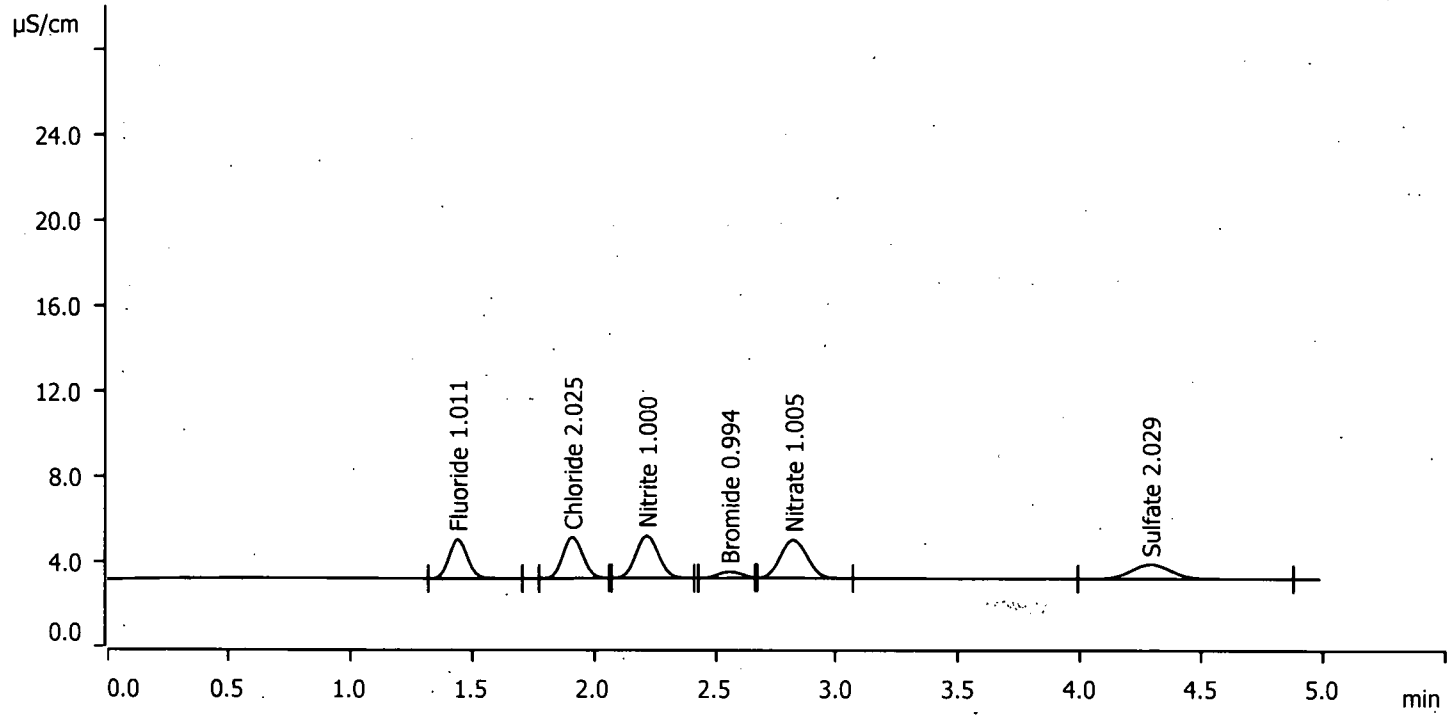
Anions



Sample data

Ident	LCS
Sample type	Check standard 2
Determination start	2024-09-15 23:18:02 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92414
Sample Position	51
Comment 1	300.0/9056A
Comment 2	

Anions



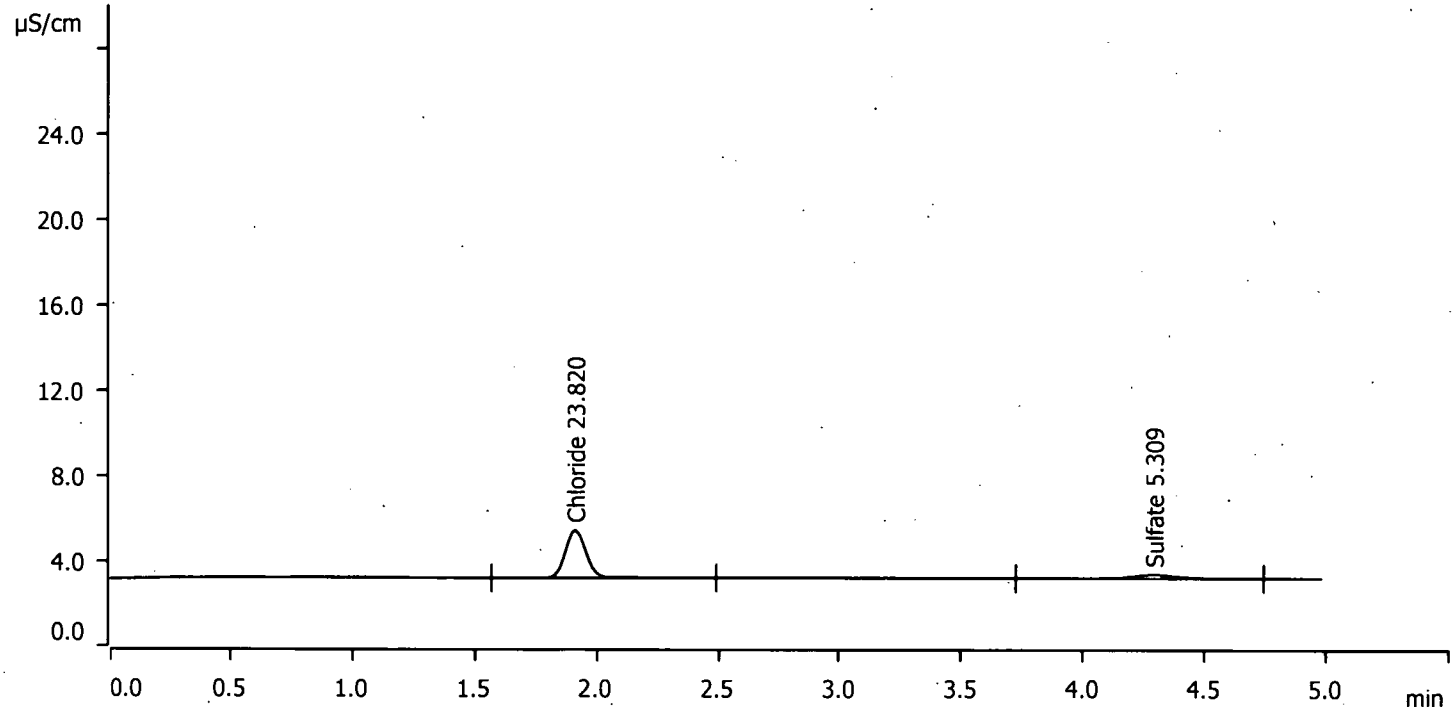
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.159	1.011	Fluoride	BB
2	1.91	0.182	2.025	Chloride	BB
3	2.22	0.216	1.000	Nitrite	BB
4	2.56	0.032	0.994	Bromide	BB
5	2.82	0.226	1.005	Nitrate	BB
6	4.29	0.130	2.029	Sulfate	BB

Sample data

Ident	R2408254-037
Sample type	Sample
Determination start	2024-09-15 23:24:18 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92415
Sample Position	52
Comment 1	300.0 C
Comment 2	

Anions



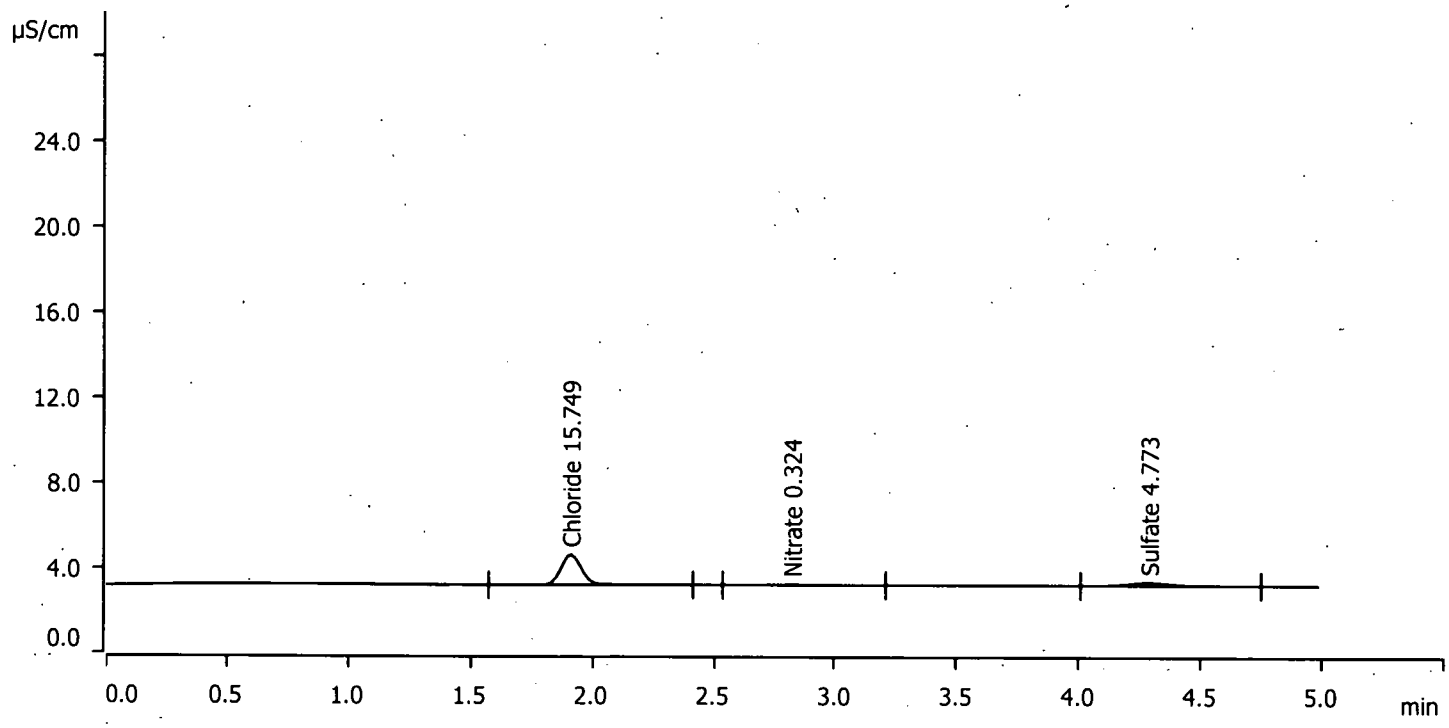
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.217	23.820	Chloride	BB
2	4.29	0.033	5.309	Sulfate	BB

Sample data

Ident	R2408254-039
Sample type	Sample
Determination start	2024-09-15 23:30:32 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92416
Sample Position	53
Comment 1	300.0 C
Comment 2	

Anions



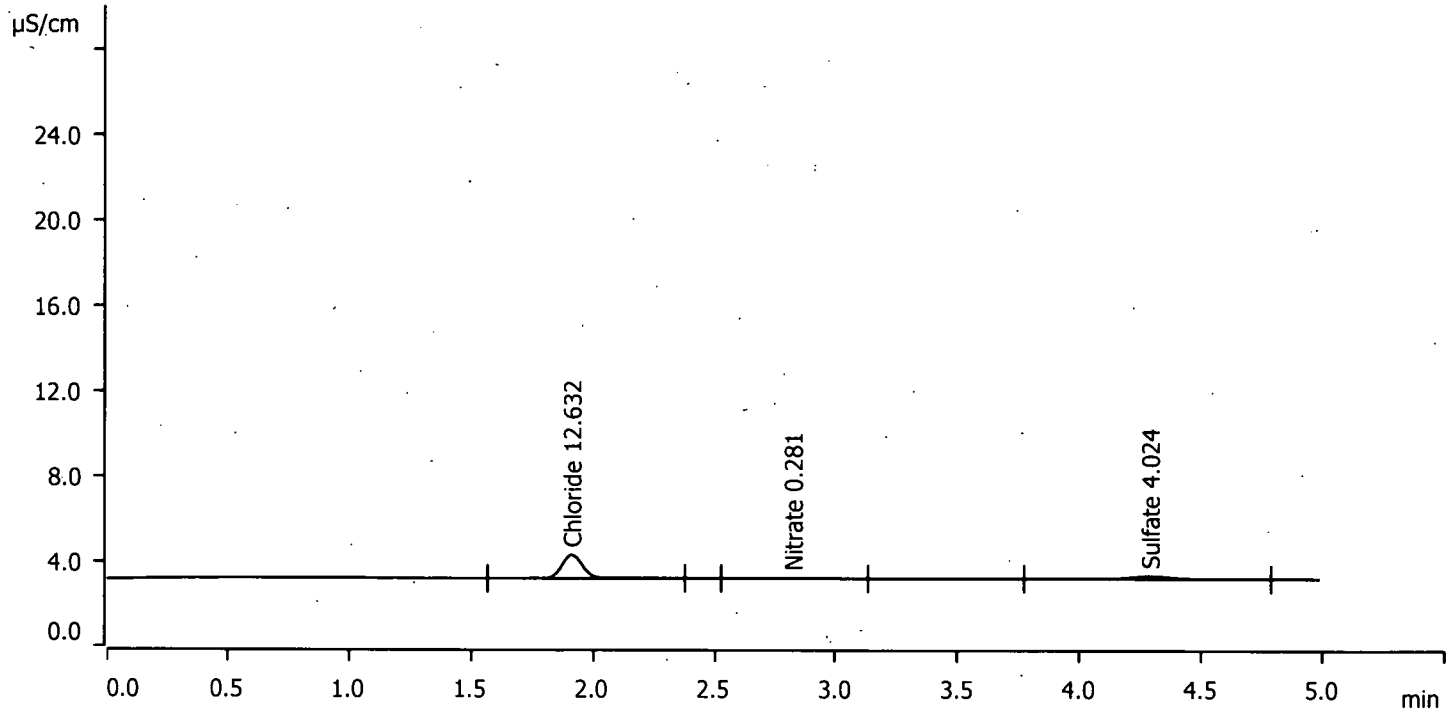
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.139	15.749	Chloride	BB
2	2.82	0.003	0.324	Nitrate	BB
3	4.29	0.030	4.773	Sulfate	BB

Sample data

Ident	R2408253-001
Sample type	Sample
Determination start	2024-09-15 23:36:47 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92417
Sample Position	54
Comment 1	300.0 C
Comment 2	

Anions



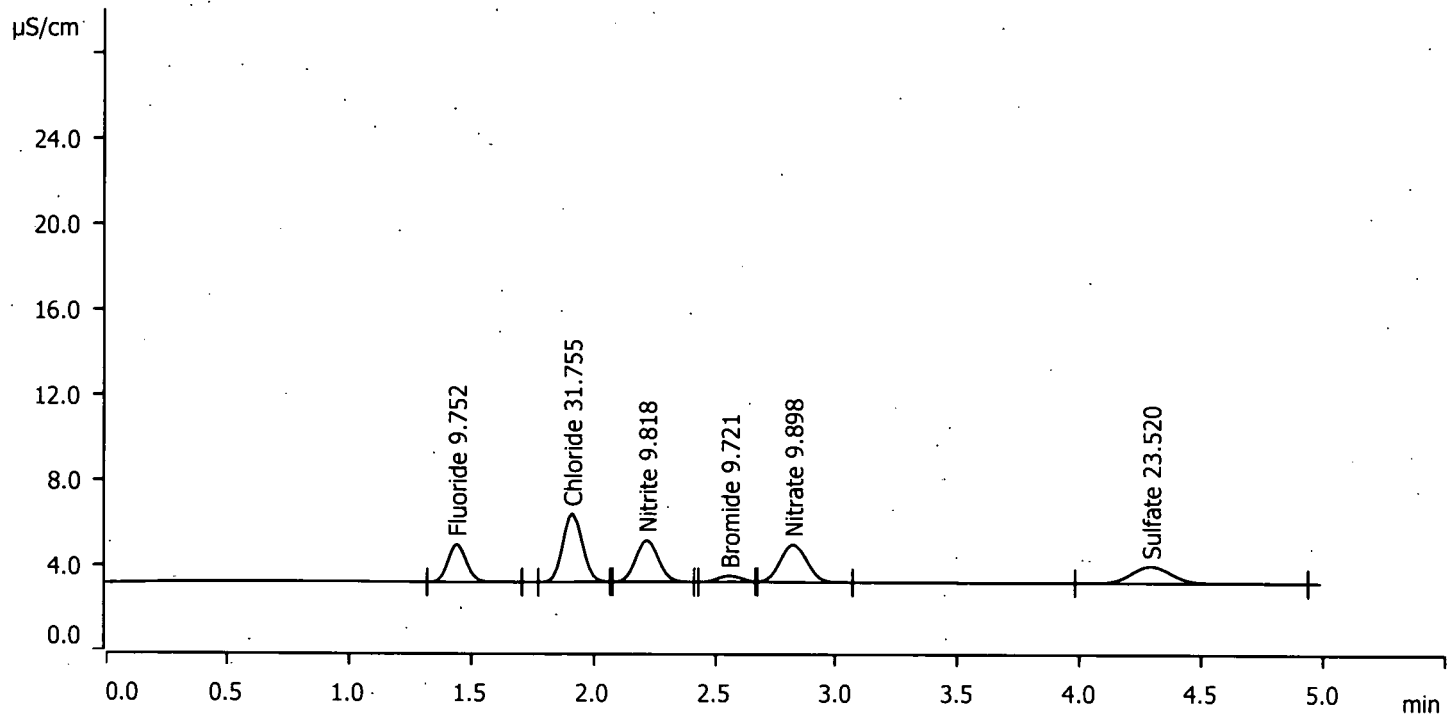
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.110	12.632	Chloride	BB
2	2.82	0.002	0.281	Nitrate	BB
3	4.29	0.025	4.024	Sulfate	BB

Sample data

Ident	R2408253-001 MS!
Sample type	Sample
Determination start	2024-09-15 23:43:02 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92418
Sample Position	55
Comment 1	300.0 C
Comment 2	

Anions



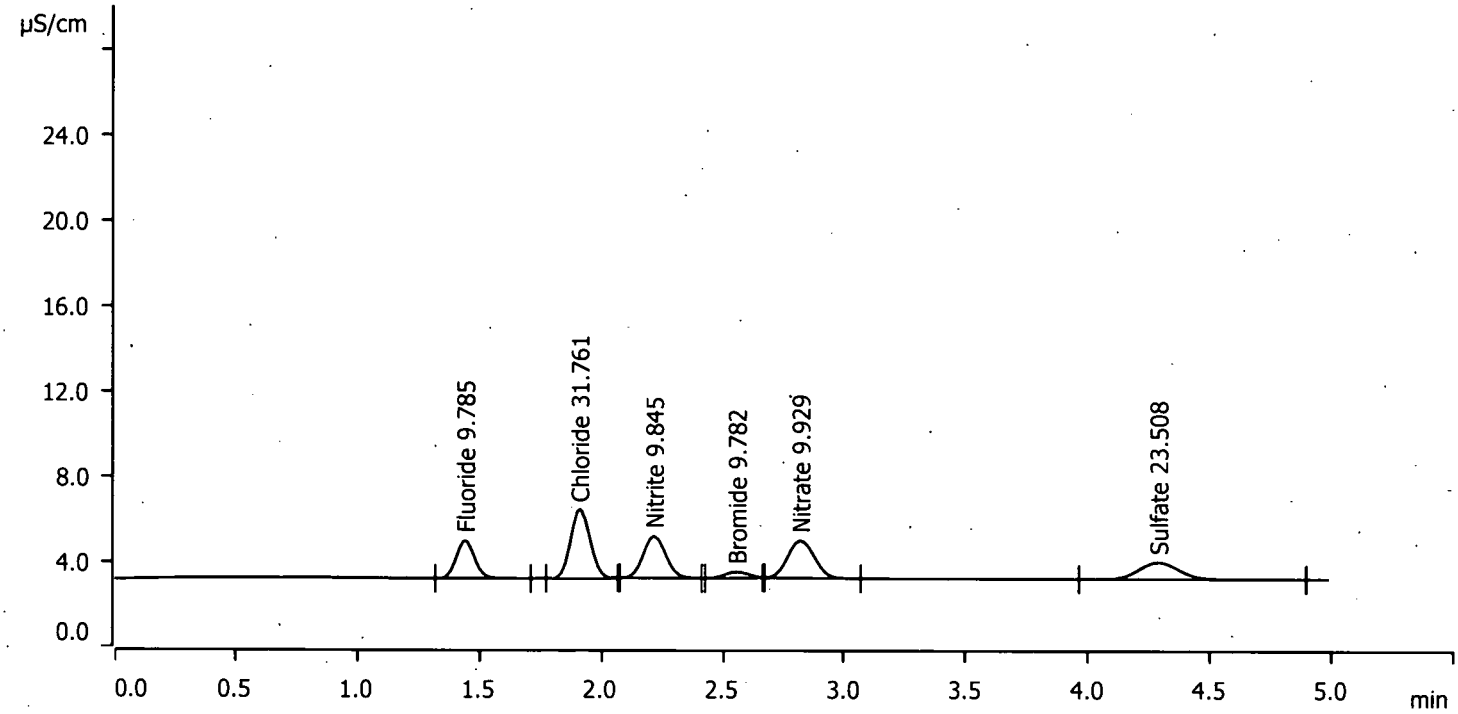
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.153	9.752	Fluoride	BB
2	1.91	0.298	31.755	Chloride	BB
3	2.22	0.212	9.818	Nitrite	BB
4	2.56	0.031	9.721	Bromide	BB
5	2.82	0.222	9.898	Nitrate	BB
6	4.29	0.152	23.520	Sulfate	BB

Sample data

Ident	R2408253-001 MSD!
Sample type	Sample
Determination start	2024-09-15 23:49:17 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92419
Sample Position	56
Comment 1	300.0 C
Comment 2	

Anions



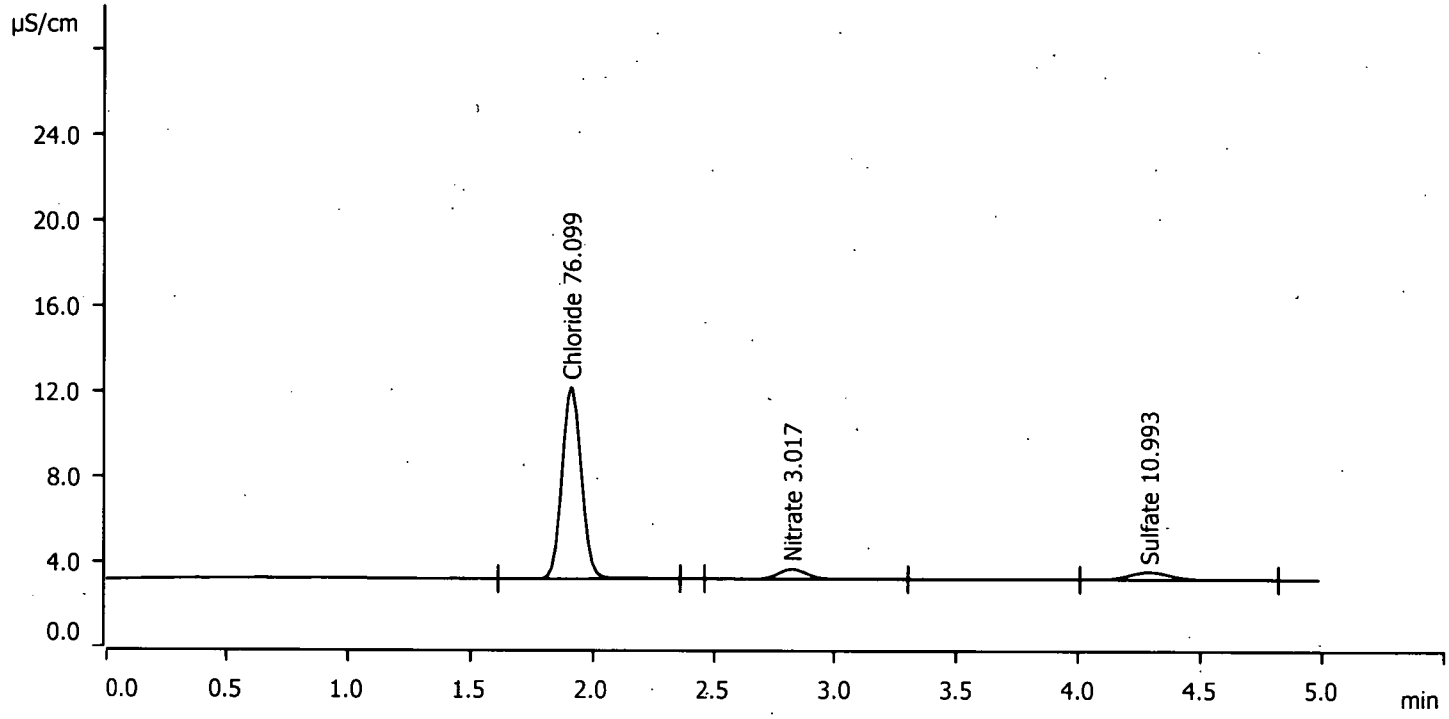
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.153	9.785	Fluoride	BB
2	1.91	0.298	31.761	Chloride	BB
3	2.22	0.212	9.845	Nitrite	BB
4	2.56	0.031	9.782	Bromide	BB
5	2.82	0.223	9.929	Nitrate	BB
6	4.29	0.152	23.508	Sulfate	BB

Sample data

Ident	R2408253-003
Sample type	Sample
Determination start	2024-09-15 23:55:32 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92420
Sample Position	57
Comment 1	300.0 C
Comment 2	

Anions



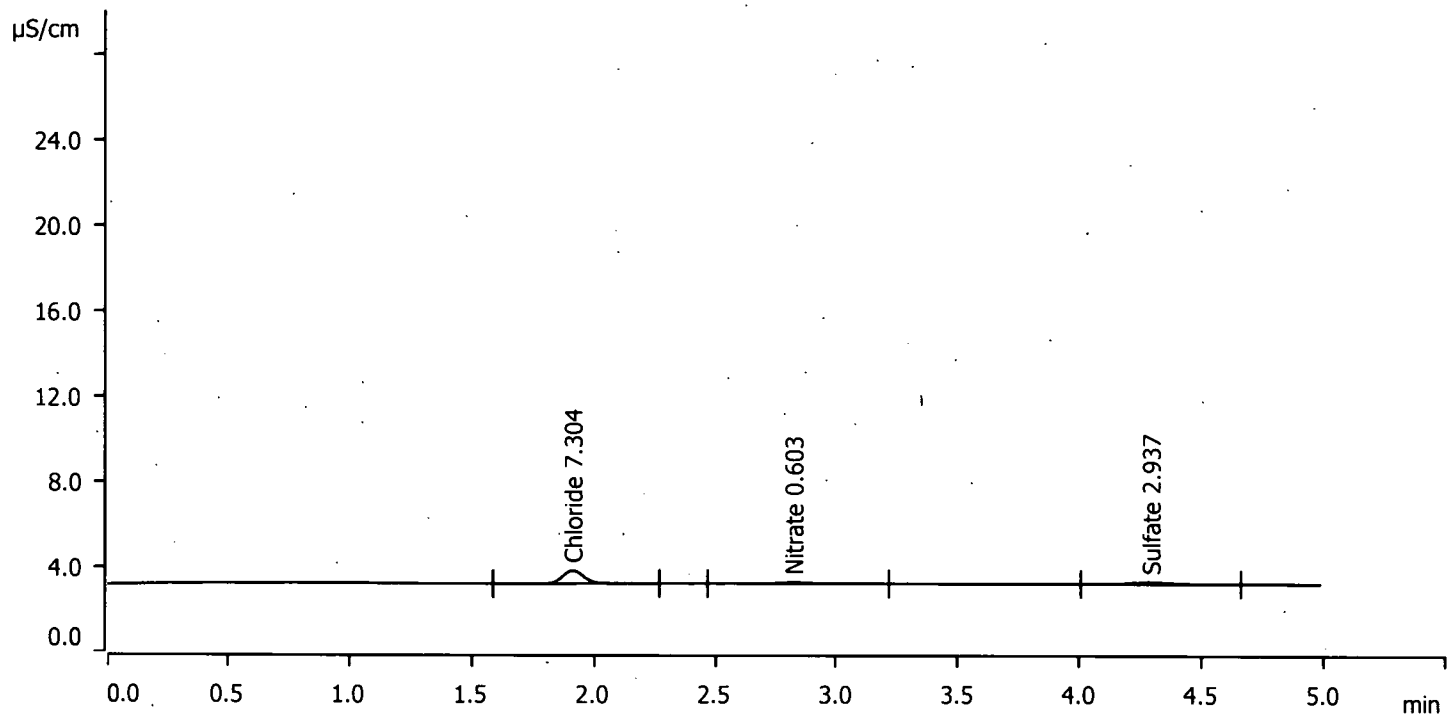
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.821	76.099	Chloride	BB
2	2.82	0.062	3.017	Nitrate	BB
3	4.29	0.069	10.993	Sulfate	BB

Sample data

Ident	R2408253-005
Sample type	Sample
Determination start	2024-09-16 00:01:47 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92421
Sample Position	58
Comment 1	300.0 C
Comment 2	

Anions



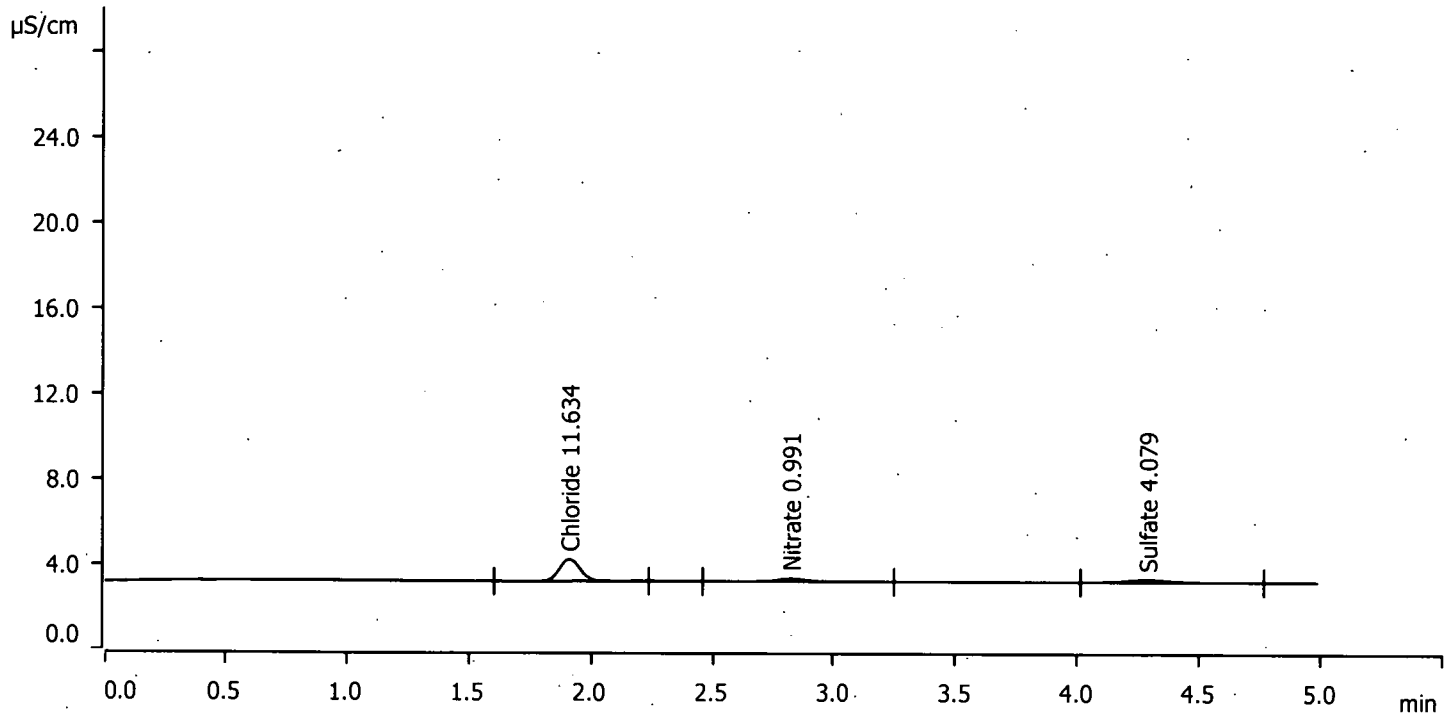
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.92	0.062	7.304	Chloride	BB
2	2.82	0.009	0.603	Nitrate	BB
3	4.29	0.018	2.937	Sulfate	BB

Sample data

Ident	R2408253-007
Sample type	Sample
Determination start	2024-09-16 00:08:02 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92422
Sample Position	59
Comment 1	300.0 C
Comment 2	

Anions



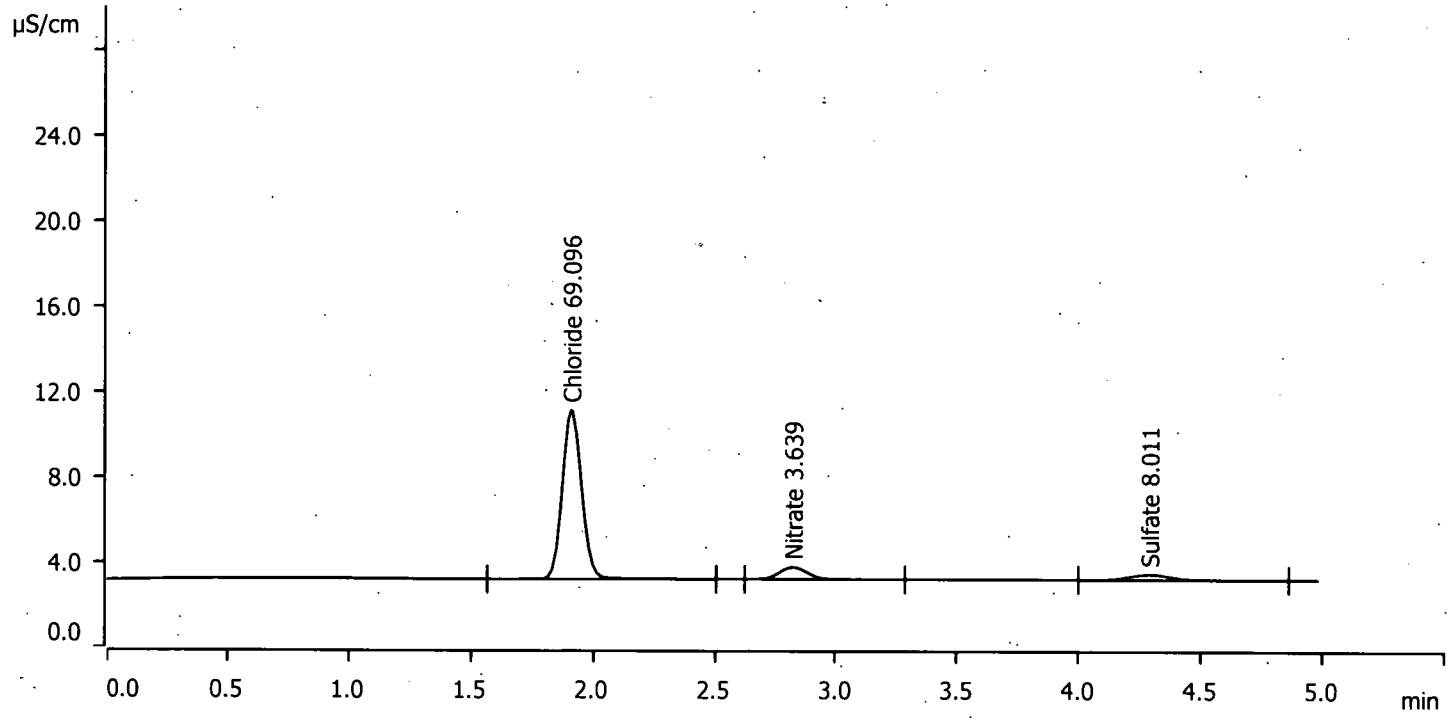
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.101	11.634	Chloride	BB
2	2.82	0.017	0.991	Nitrate	BB
3	4.29	0.025	4.079	Sulfate	BB

Sample data

Ident	R2408253-009
Sample type	Sample
Determination start	2024-09-16 00:14:16 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92423
Sample Position	60
Comment 1	300.0 C
Comment 2	

Anions



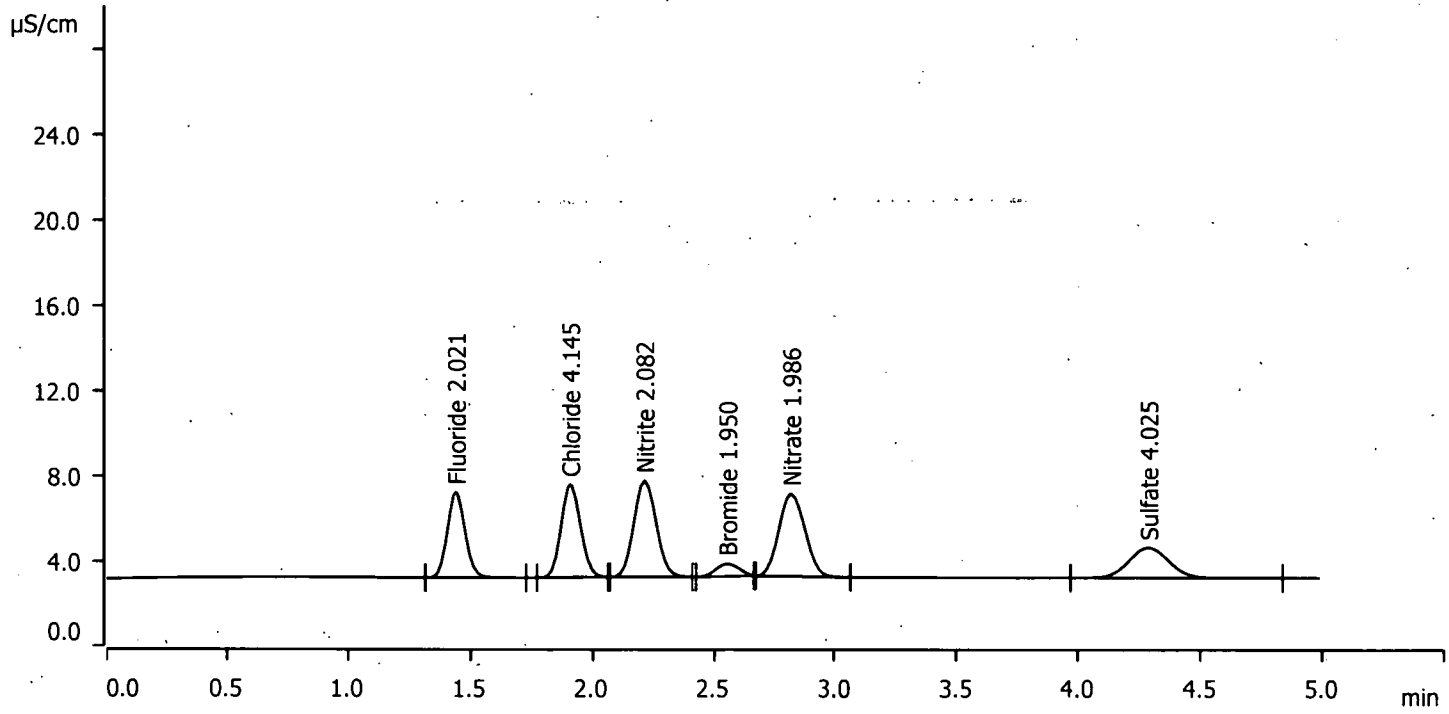
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.730	69.096	Chloride	BB
2	2.82	0.076	3.639	Nitrate	BB
3	4.29	0.050	8.011	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-16 00:20:31 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92424
Sample Position	61
Comment 1	300.0/9056A
Comment 2	

Anions



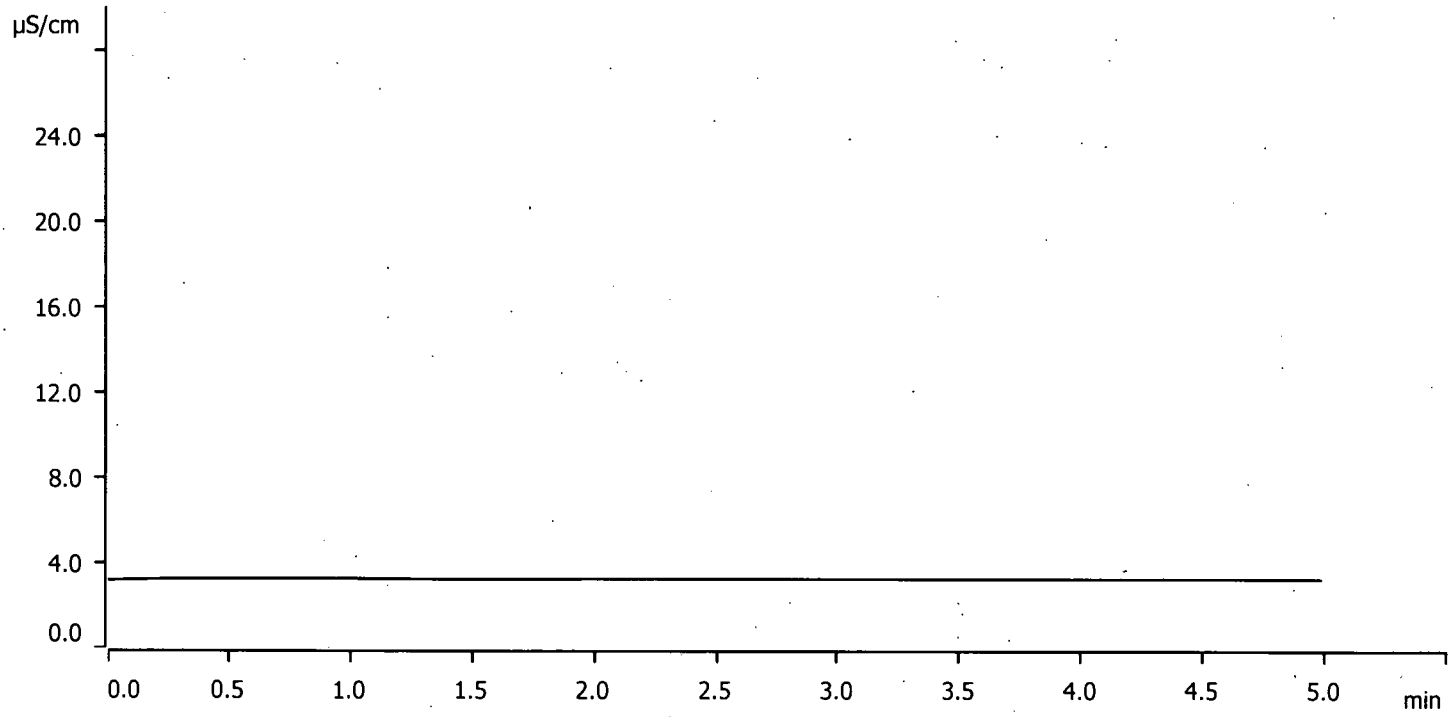
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.339	2.021	Fluoride	BB
2	1.91	0.402	4.145	Chloride	BB
3	2.22	0.482	2.082	Nitrite	BB
4	2.56	0.065	1.950	Bromide	BB
5	2.82	0.483	1.986	Nitrate	BB
6	4.29	0.269	4.025	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-16 00:26:47 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92425
Sample Position	62
Comment 1	300.0/9056A
Comment 2	

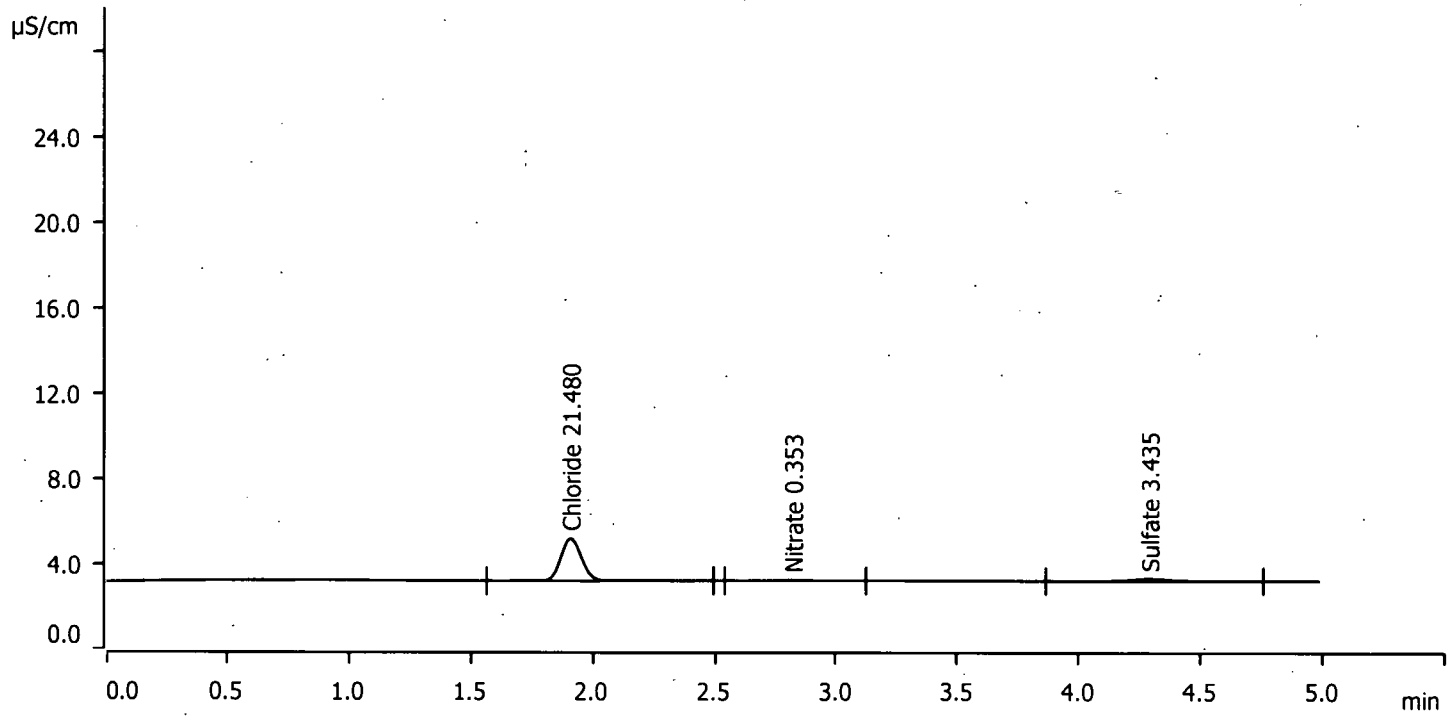
Anions



Sample data

Ident	R2408253-011
Sample type	Sample
Determination start	2024-09-16 00:33:03 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92426
Sample Position	63
Comment 1	300.0 C
Comment 2	

Anions



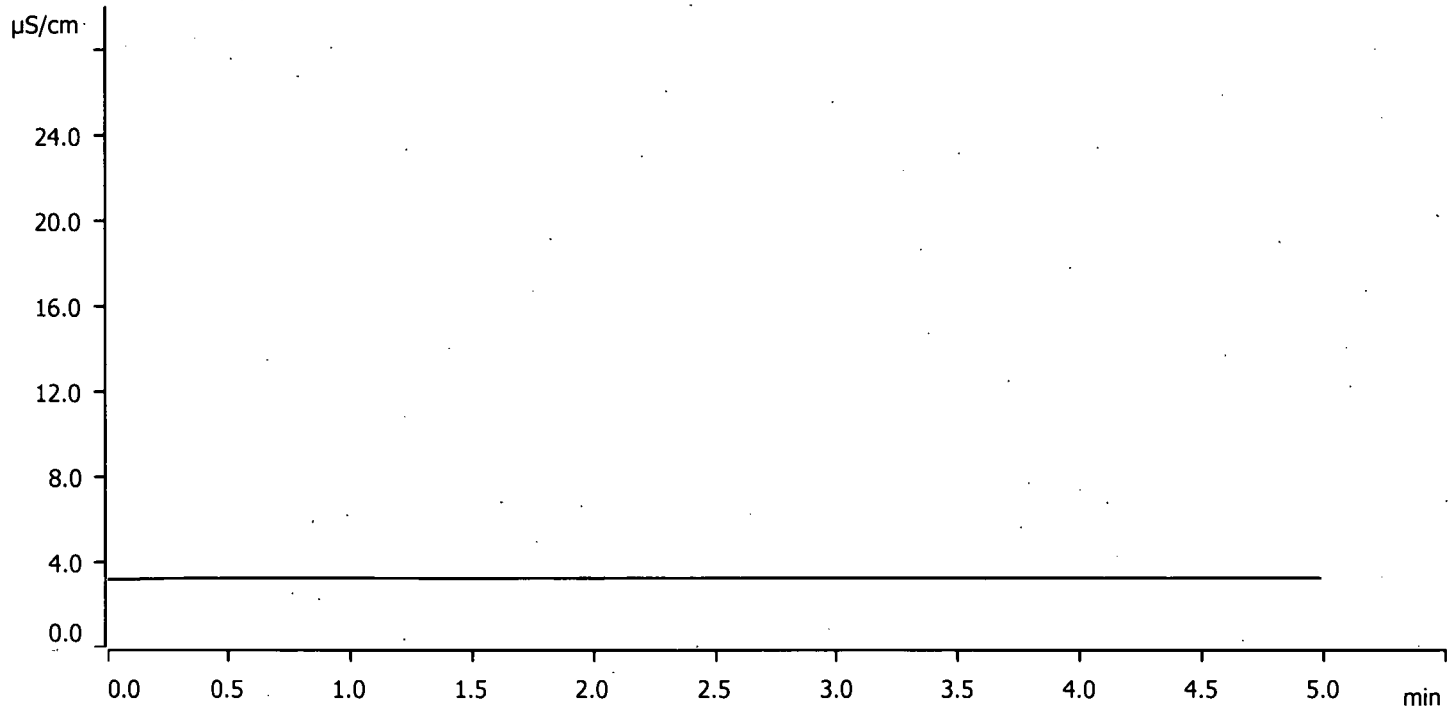
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.194	21.480	Chloride	BB
2	2.82	0.004	0.353	Nitrate	BB
3	4.29	0.021	3.435	Sulfate	BB

Sample data

Ident	R2408253-013
Sample type	Sample
Determination start	2024-09-16 00:39:18 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92427
Sample Position	64
Comment 1	300.0 C
Comment 2	

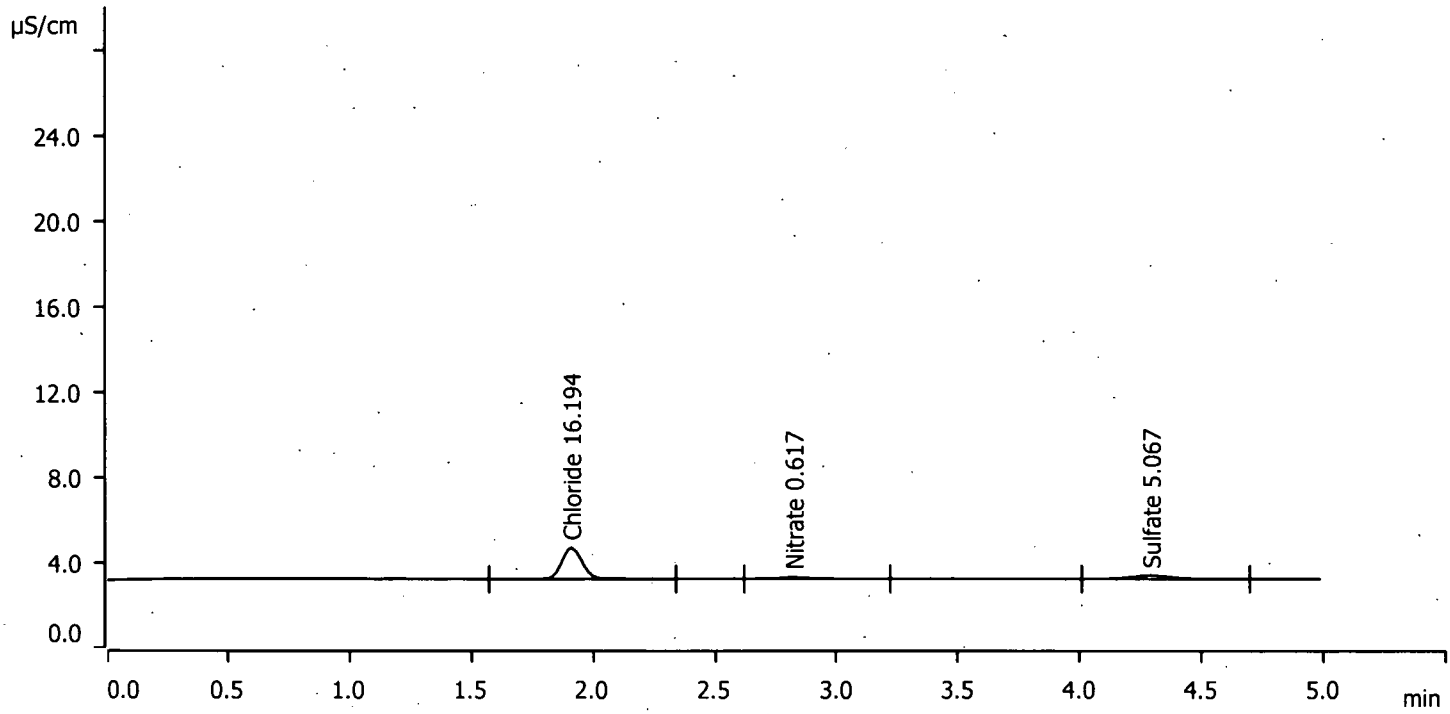
Anions



Sample data

Ident	R2408254-001
Sample type	Sample
Determination start	2024-09-16 00:45:32 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92428
Sample Position	65
Comment 1	300.0 C
Comment 2	

Anions



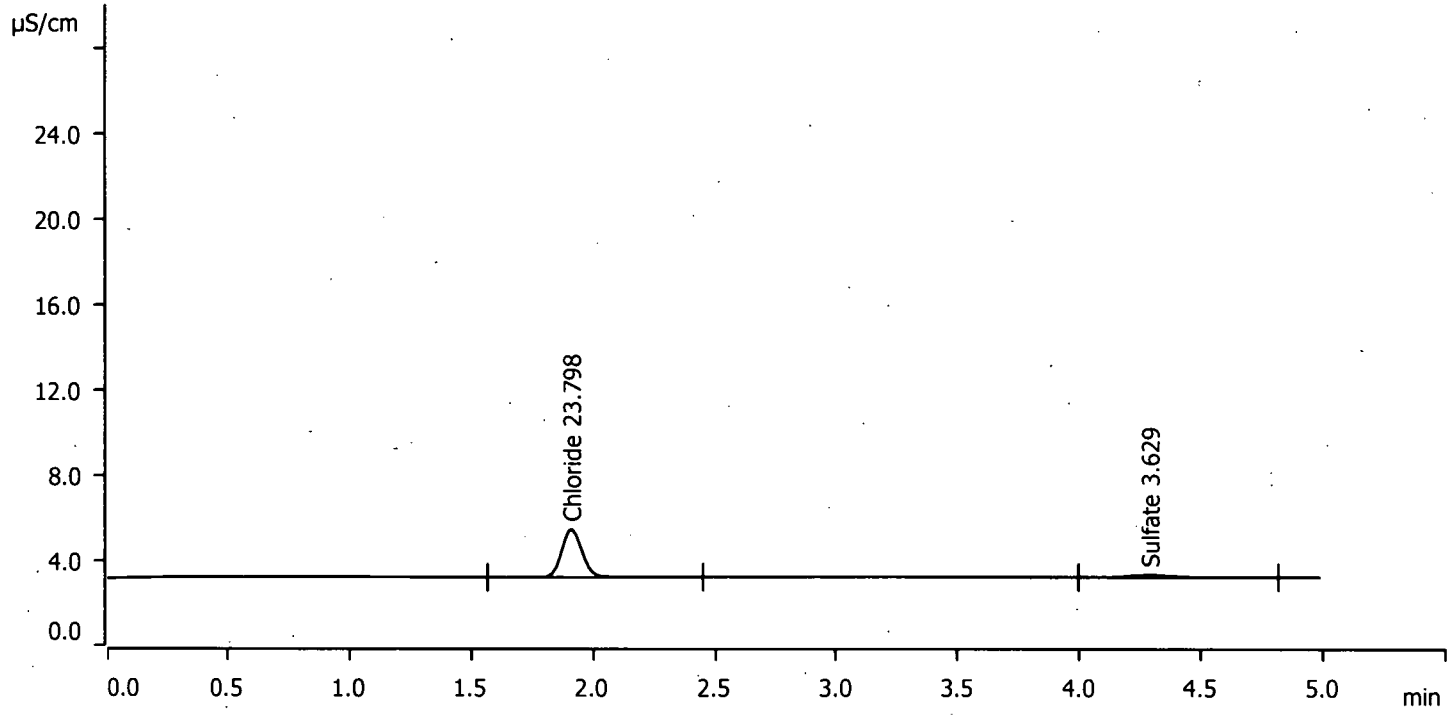
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.143	16.194	Chloride	BB
2	2.82	0.009	0.617	Nitrate	BB
3	4.29	0.031	5.067	Sulfate	BB

Sample data

Ident	R2408254-003
Sample type	Sample
Determination start	2024-09-16 00:51:47 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92429
Sample Position	66
Comment 1	300.0 C
Comment 2	

Anions



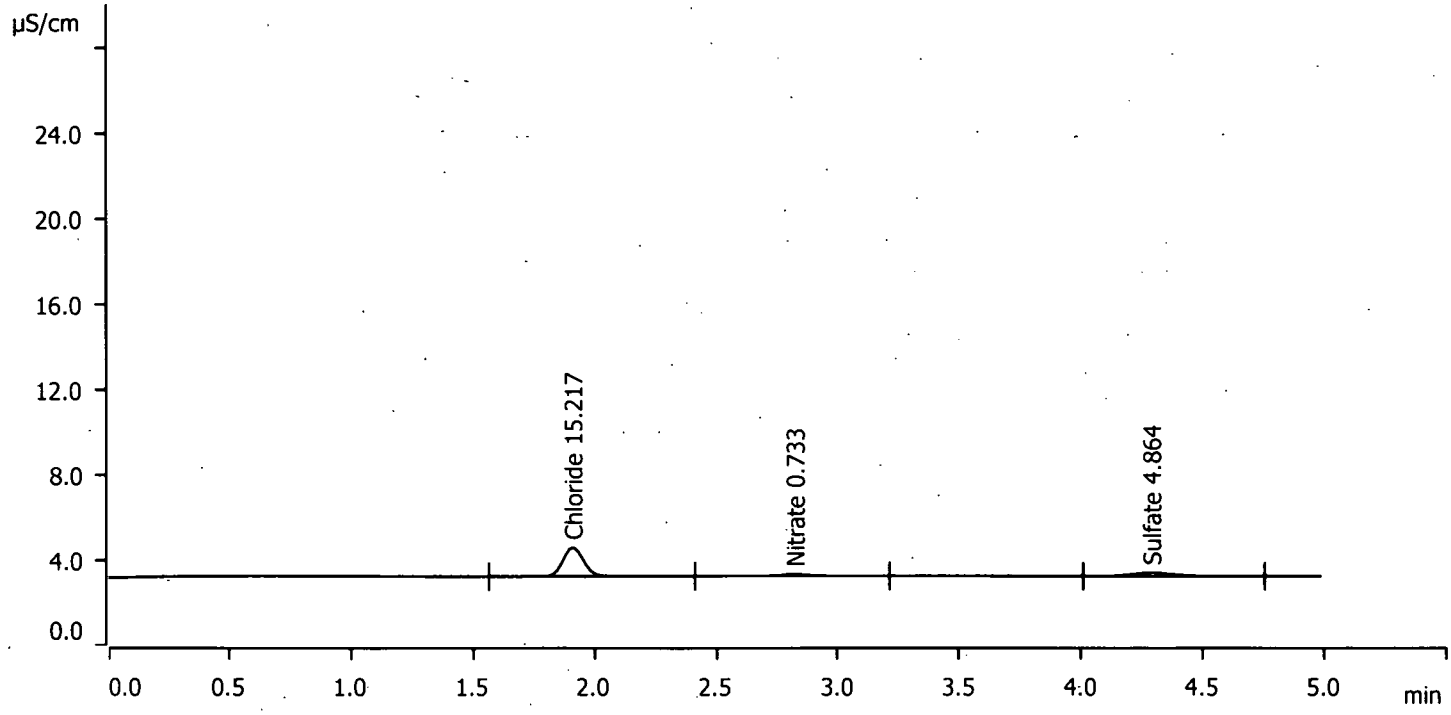
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.217	23.798	Chloride	BB
2	4.29	0.022	3.629	Sulfate	BB

Sample data

Ident	R2408254-005
Sample type	Sample
Determination start	2024-09-16 00:58:01 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92430
Sample Position	67
Comment 1	300.0 C
Comment 2	

Anions



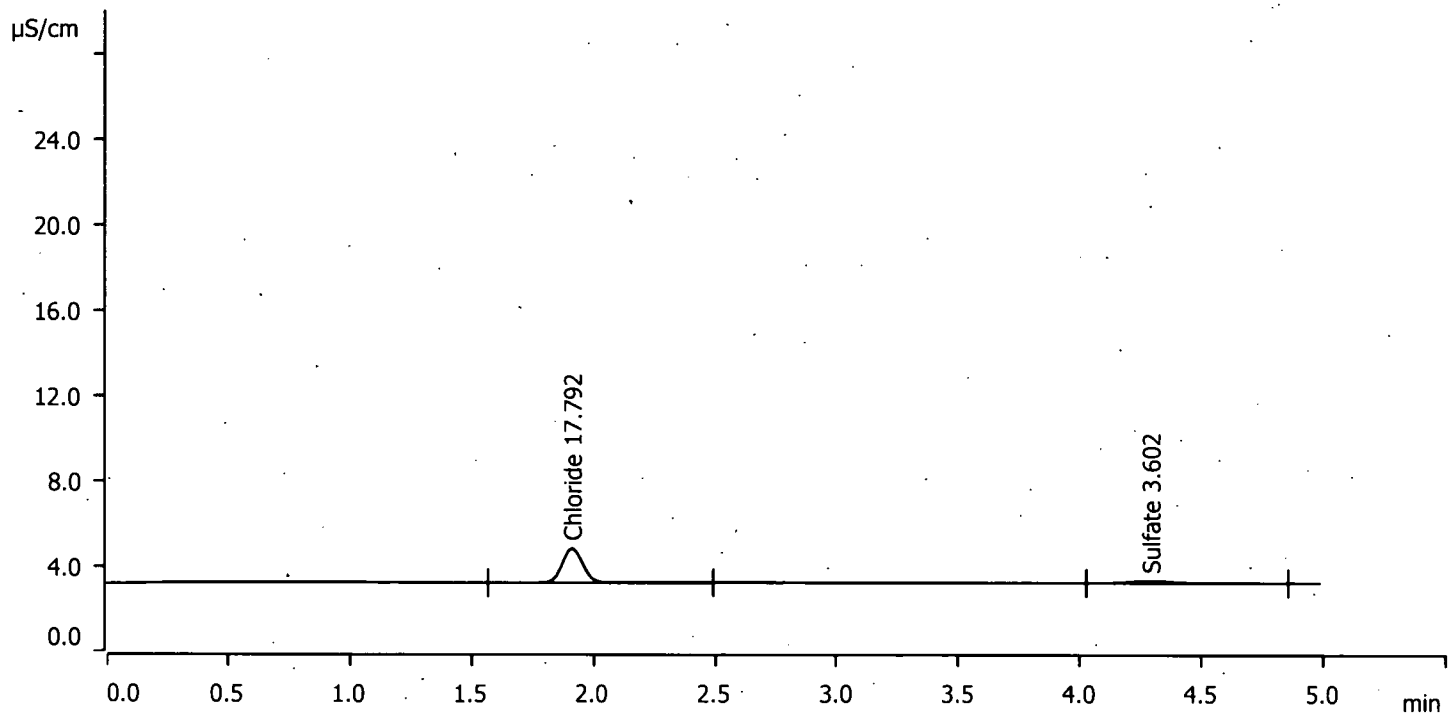
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.134	15.217	Chloride	BB
2	2.82	0.012	0.733	Nitrate	BB
3	4.29	0.030	4.864	Sulfate	BB

Sample data

Ident	R2408254-007
Sample type	Sample
Determination start	2024-09-16 01:04:16 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92431
Sample Position	68
Comment 1	300.0 C
Comment 2	

Anions



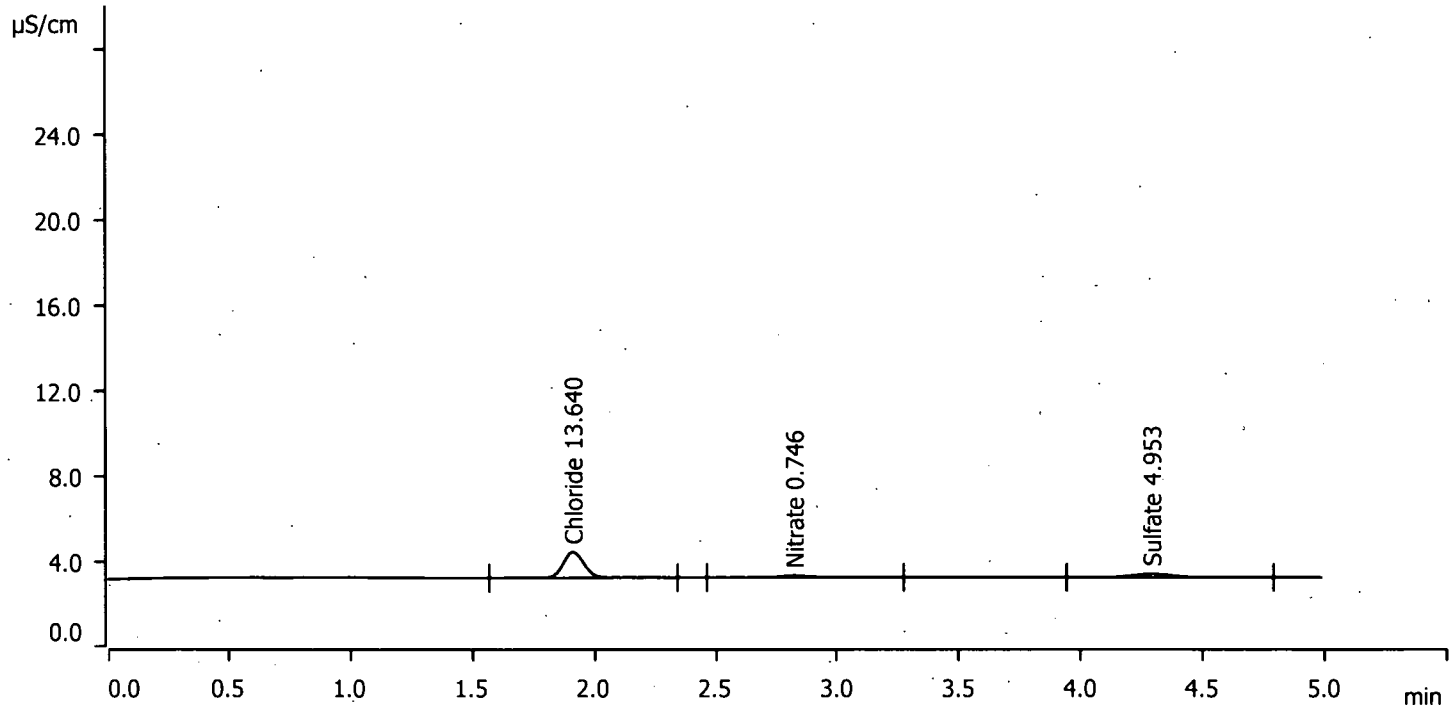
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.159	17.792	Chloride	BB
2	4.29	0.022	3.602	Sulfate	BB

Sample data

Ident	R2408254-009
Sample type	Sample
Determination start	2024-09-16 01:10:30 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92432
Sample Position	69
Comment 1	300.0 C
Comment 2	

Anions



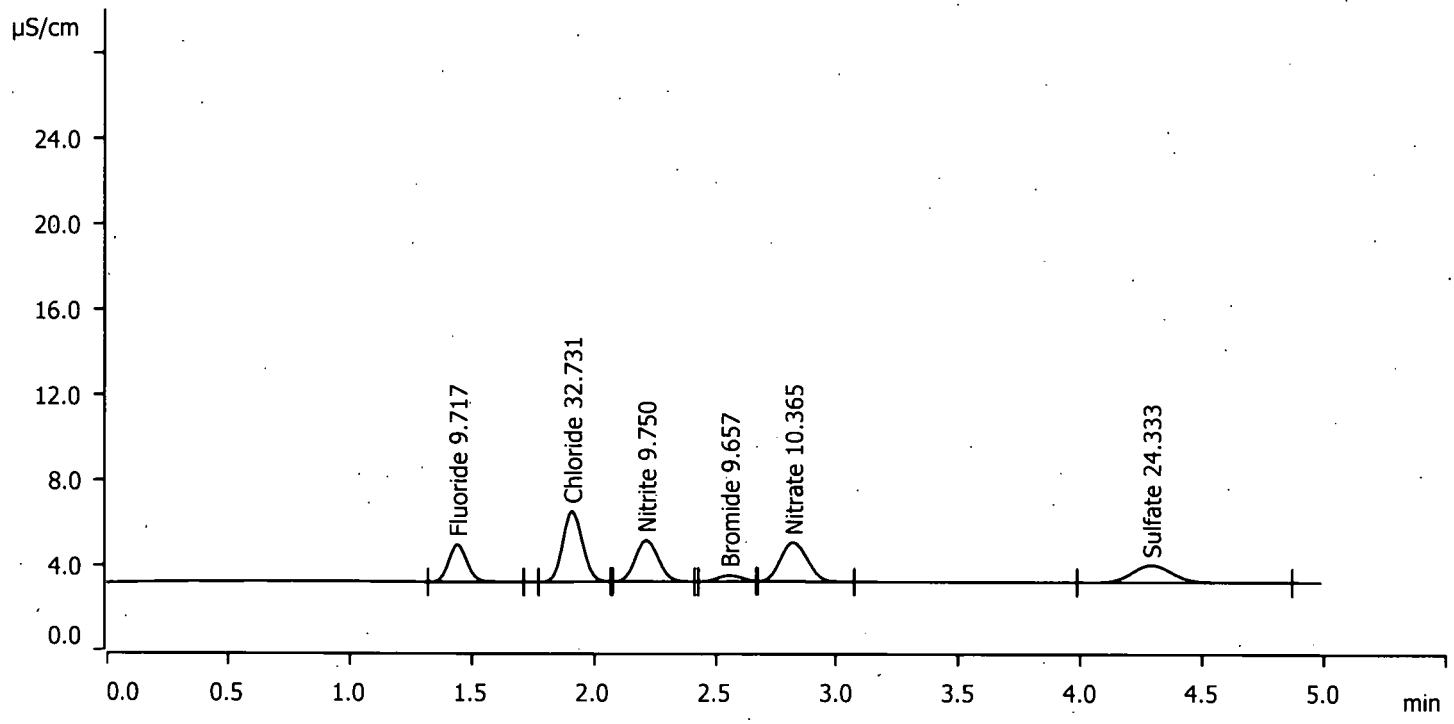
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.119	13.640	Chloride	BB
2	2.82	0.012	0.746	Nitrate	BB
3	4.29	0.031	4.953	Sulfate	BB

Sample data

Ident	R2408254-009 MS!
Sample type	Sample
Determination start	2024-09-16 01:16:45 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92433
Sample Position	70
Comment 1	300.0 C
Comment 2	

Anions



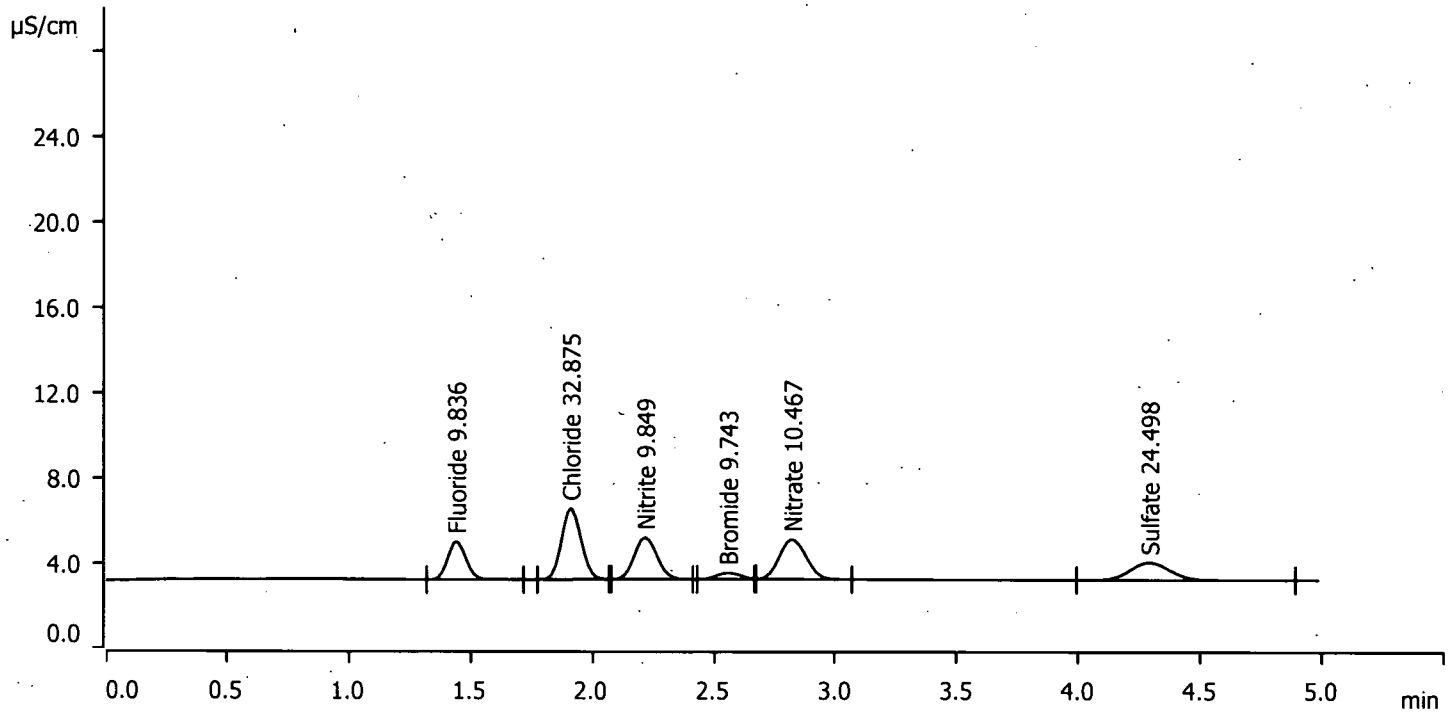
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.152	9.717	Fluoride	BB
2	1.91	0.308	32.731	Chloride	BB
3	2.22	0.210	9.750	Nitrite	BB
4	2.56	0.031	9.657	Bromide	BB
5	2.82	0.234	10.365	Nitrate	BB
6	4.29	0.158	24.333	Sulfate	BB

Sample data

Ident	R2408254-009 MSD!
Sample type	Sample
Determination start	2024-09-16 01:23:01 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92434
Sample Position	71
Comment 1	300.0 C
Comment 2	

Anions



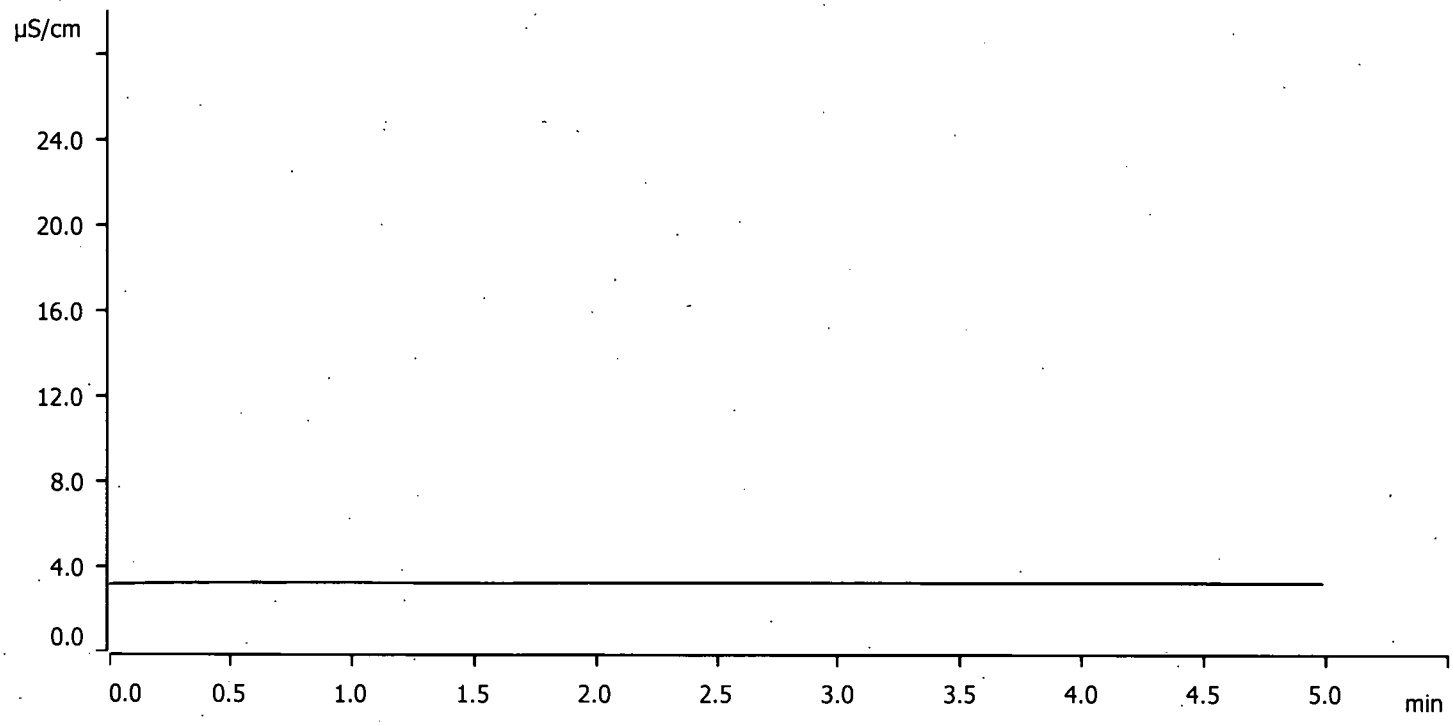
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.154	9.836	Fluoride	BB
2	1.91	0.310	32.875	Chloride	BB
3	2.22	0.212	9.849	Nitrite	BB
4	2.56	0.031	9.743	Bromide	BB
5	2.82	0.236	10.467	Nitrate	BB
6	4.29	0.159	24.498	Sulfate	BB

Sample data

Ident	R2408254-011
Sample type	Sample
Determination start	2024-09-16 01:29:16 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92435
Sample Position	72
Comment 1	300.0 C
Comment 2	

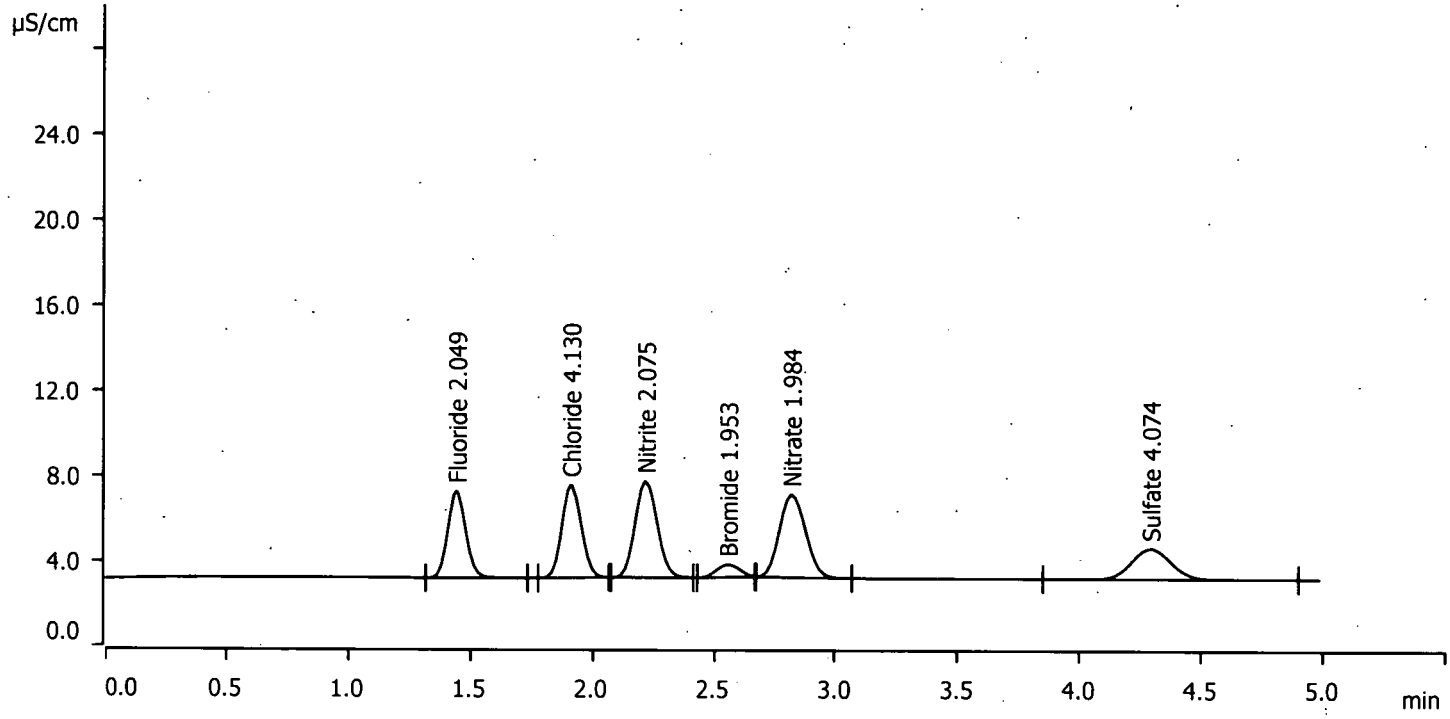
Anions



Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-16 01:35:30 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92436
Sample Position	73
Comment 1	300.0/9056A
Comment 2	

Anions



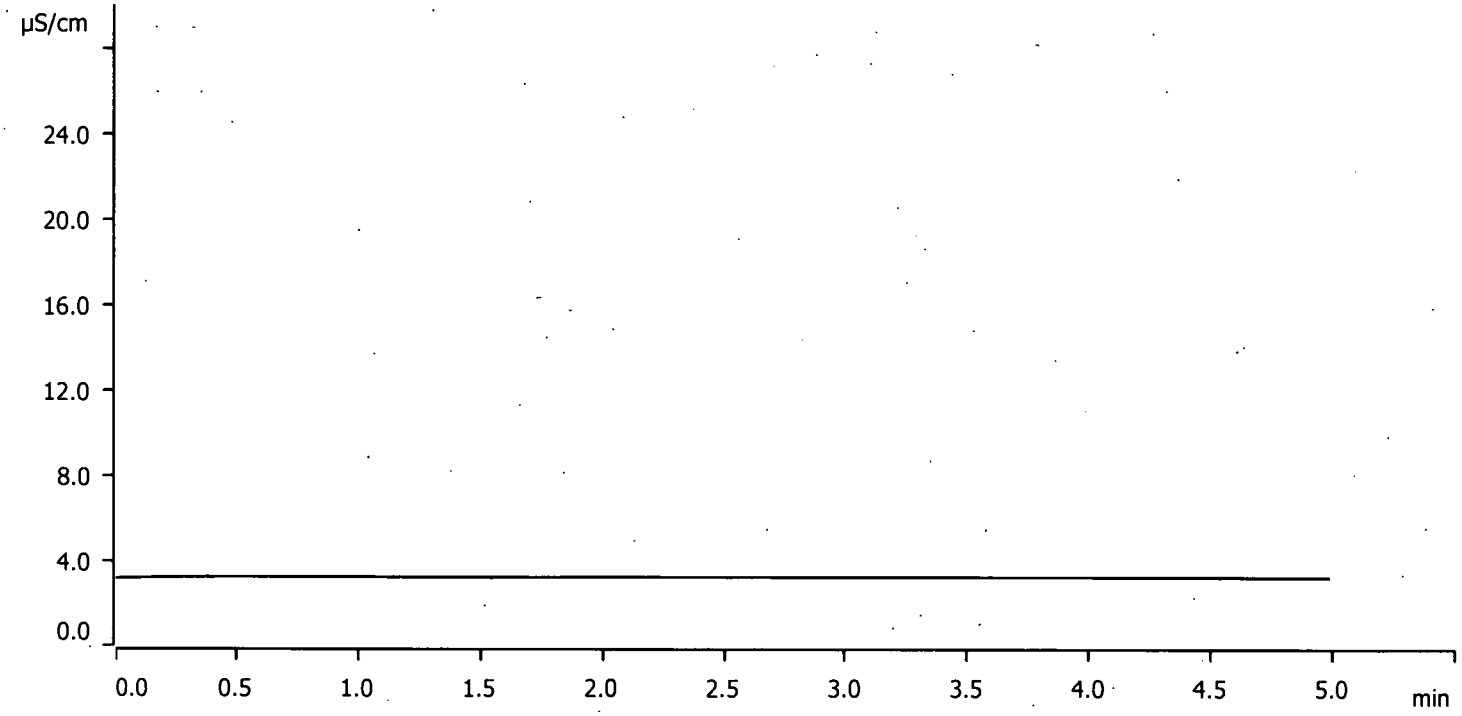
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.344	2.049	Fluoride	BB
2	1.91	0.401	4.130	Chloride	BB
3	2.22	0.480	2.075	Nitrite	BB
4	2.56	0.065	1.953	Bromide	BB
5	2.82	0.482	1.984	Nitrate	BB
6	4.29	0.273	4.074	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-16 01:41:46 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92437
Sample Position	74
Comment 1	300.0/9056A
Comment 2	

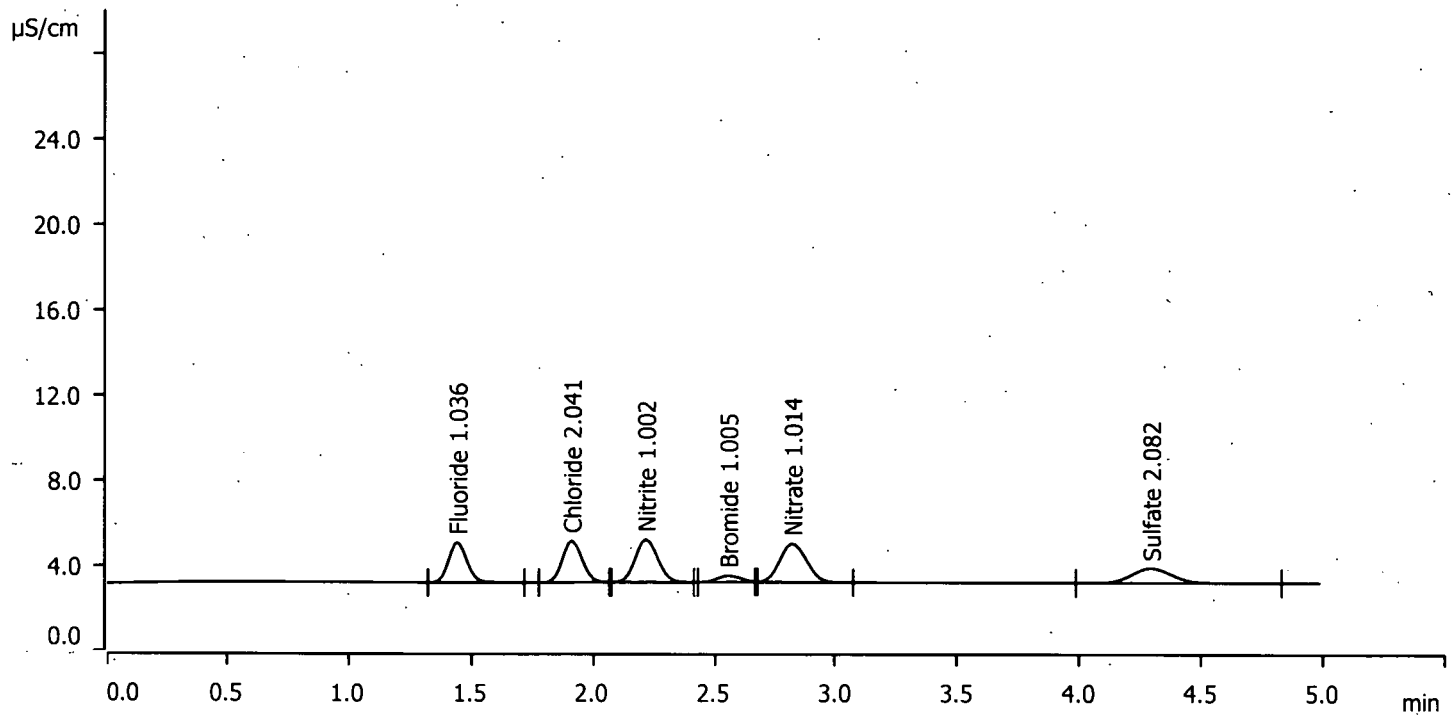
Anions



Sample data

Ident	LCS
Sample type	Check standard 2
Determination start	2024-09-16 01:48:01 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92438
Sample Position	75
Comment 1	300.0/9056A
Comment 2	

Anions



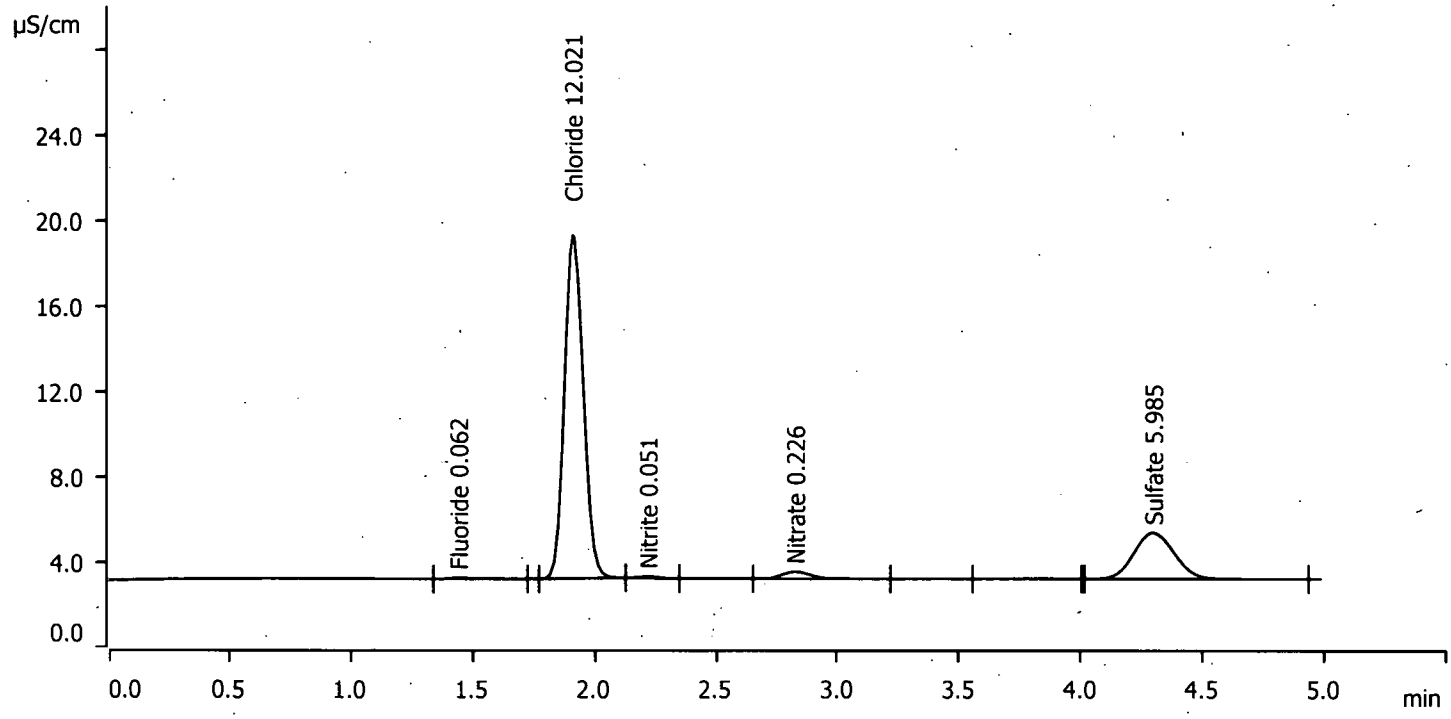
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.163	1.036	Fluoride	BB
2	1.92	0.184	2.041	Chloride	BB
3	2.22	0.217	1.002	Nitrite	BB
4	2.56	0.032	1.005	Bromide	BB
5	2.82	0.228	1.014	Nitrate	BB
6	4.29	0.134	2.082	Sulfate	BB

Sample data

Ident	R2408259-001
Sample type	Sample
Determination start	2024-09-16 01:54:17 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92439
Sample Position	76
Comment 1	300.0 FS
Comment 2	

Anions



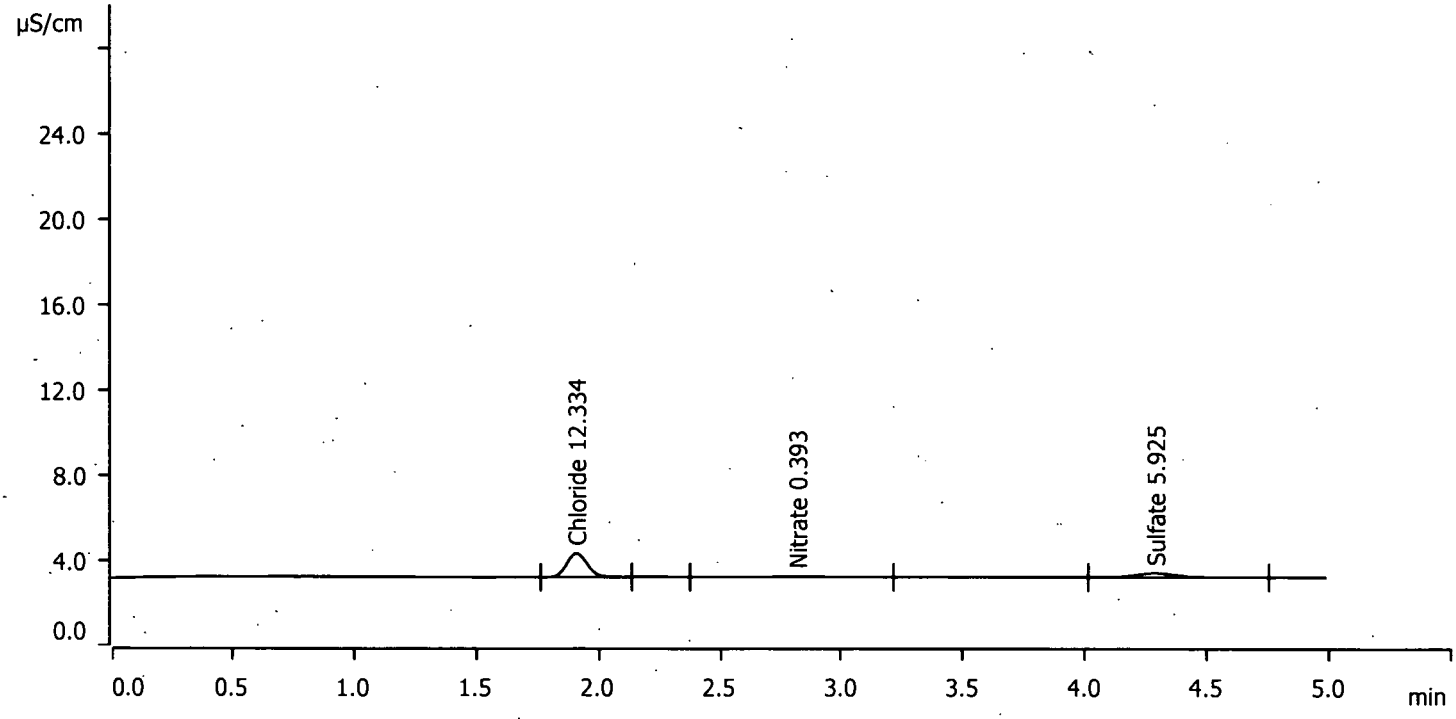
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.45	0.006	0.062	Fluoride	BB
2	1.91	1.461	12.021	Chloride	BB
3	2.22	0.007	0.051	Nitrite	BB
4	2.83	0.045	0.226	Nitrate	BB
6	4.30	0.417	5.985	Sulfate	BB

Sample data

Ident	R2408259-001
Sample type	Sample
Determination start	2024-09-16 02:00:32 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92440
Sample Position	77
Comment 1	300.0 C
Comment 2	

Anions



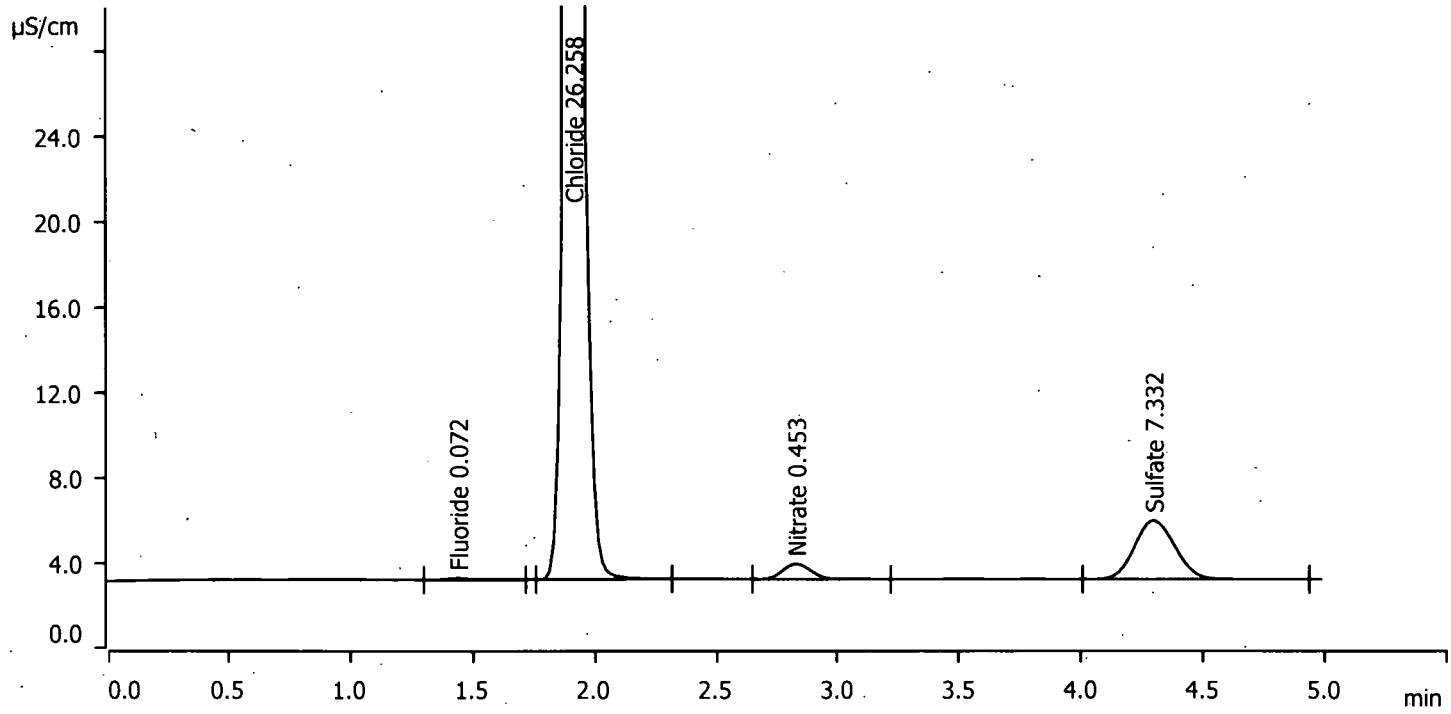
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.107	12.334	Chloride	BB
2	2.82	0.004	0.393	Nitrate	BB
3	4.29	0.037	5.925	Sulfate	BB

Sample data

Ident	R2408259-003
Sample type	Sample
Determination start	2024-09-16 02:06:47 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92441
Sample Position	78
Comment 1	300.0 FS
Comment 2	

Anions



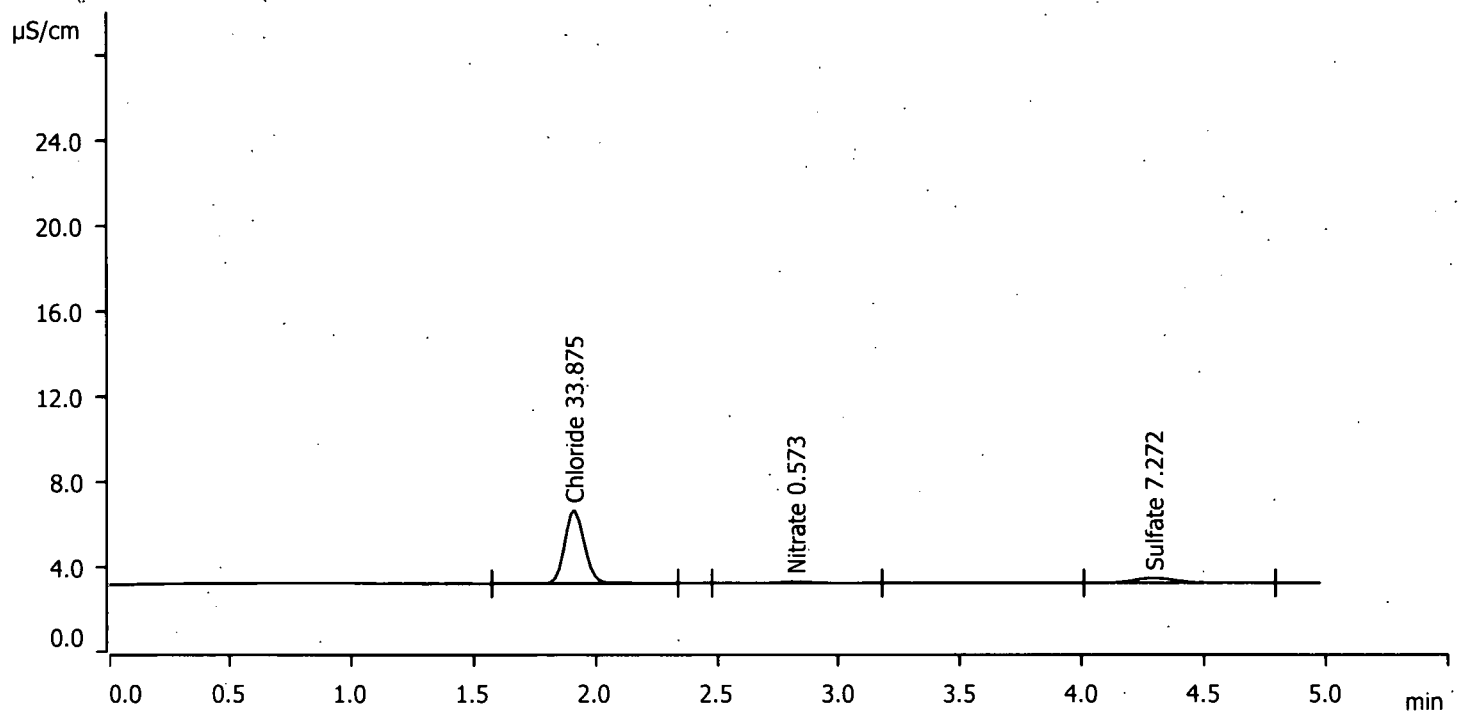
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.008	0.072	Fluoride	BBI
2	1.92	4.344	26.258	Chloride	BB
3	2.83	0.096	0.453	Nitrate	BB
4	4.30	0.524	7.332	Sulfate	BB

Sample data

Ident	R2408259-003
Sample type	Sample
Determination start	2024-09-16 02:13:02 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92442
Sample Position	79
Comment 1	300.0 C
Comment 2	

Anions



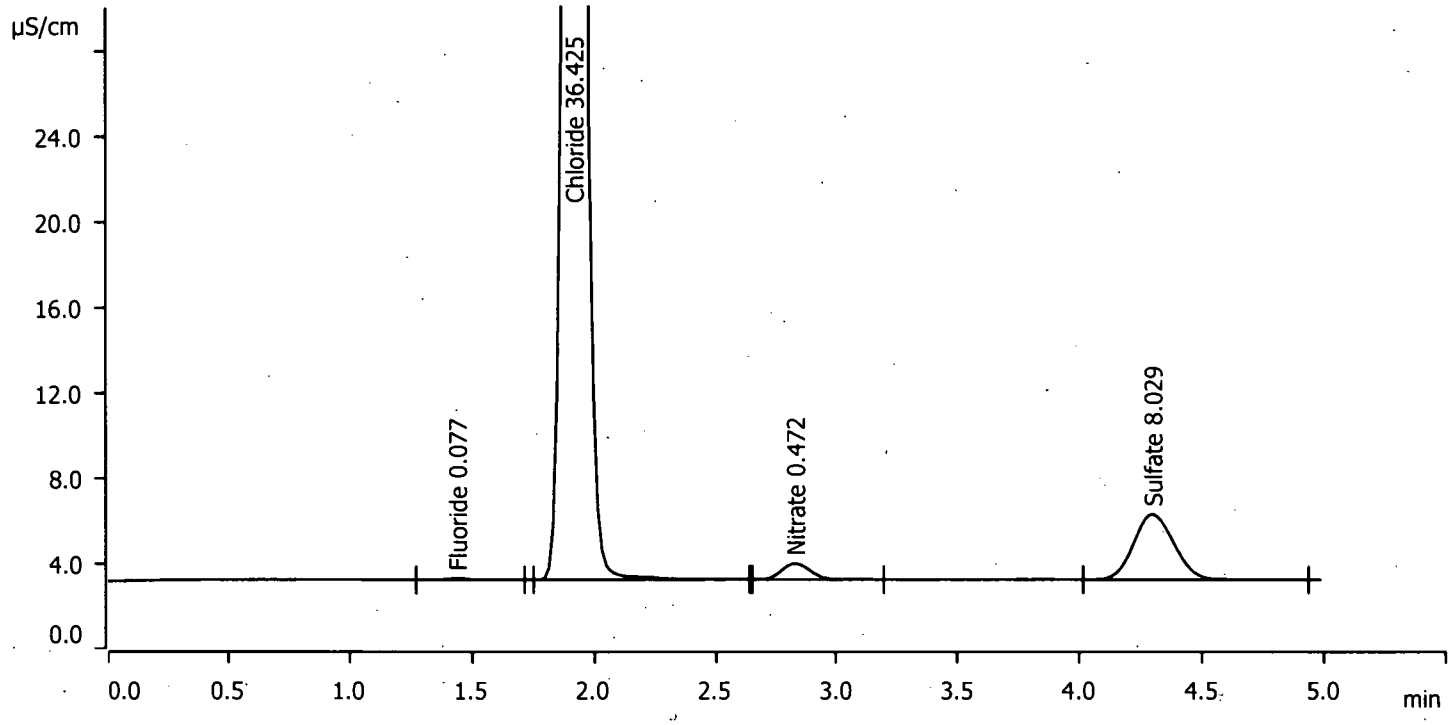
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.320	33.875	Chloride	BB
2	2.82	0.008	0.573	Nitrate	BB
3	4.29	0.045	7.272	Sulfate	BB

Sample data

Ident	R2408259-005
Sample type	Sample
Determination start	2024-09-16 02:19:17 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92443
Sample Position	80
Comment 1	300.0 FS
Comment 2	

Anions



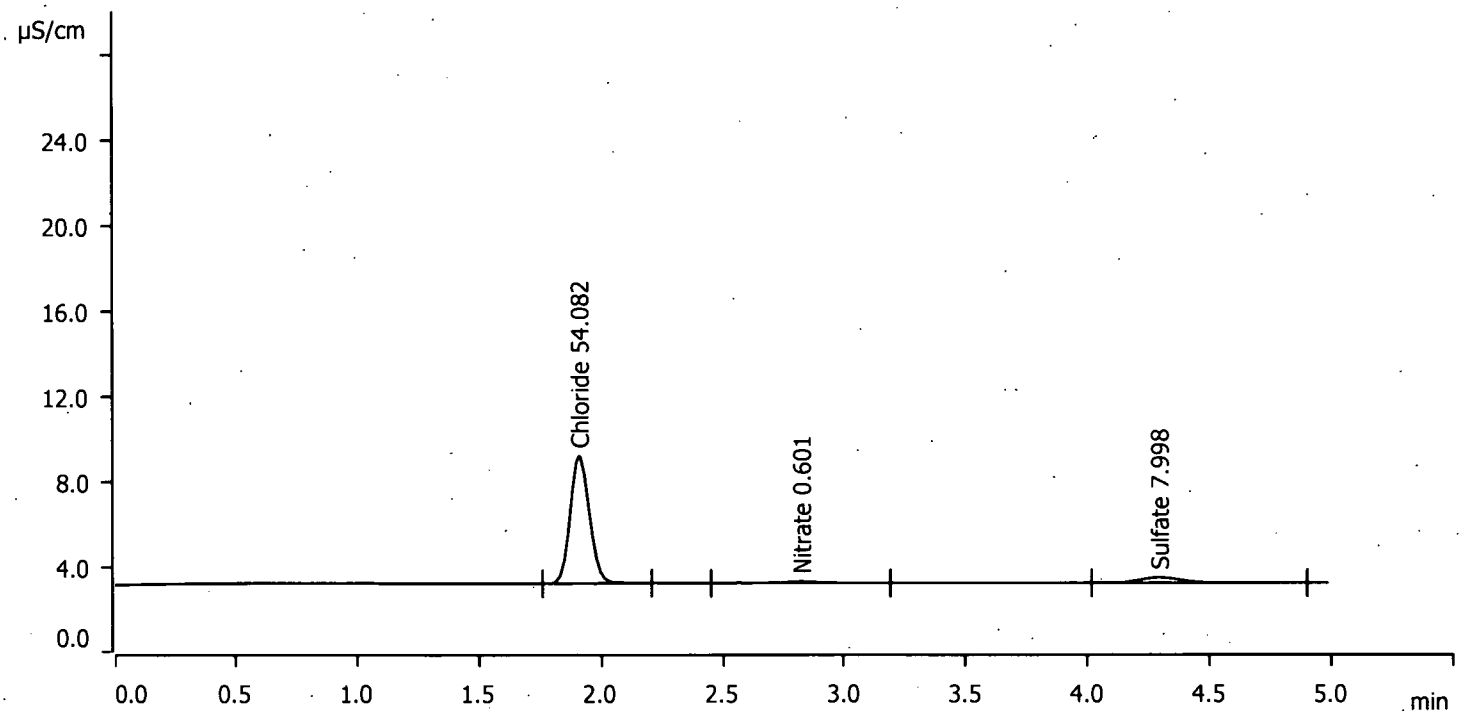
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.009	0.077	Fluoride	BB
2	1.92	7.166	36.425	Chloride	BB
3	2.83	0.100	0.472	Nitrate	BB
4	4.30	0.582	8.029	Sulfate	BB

Sample data

Ident	R2408259-005
Sample type	Sample
Determination start	2024-09-16 02:25:32 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92444
Sample Position	81
Comment 1	300.0 C
Comment 2	

Anions



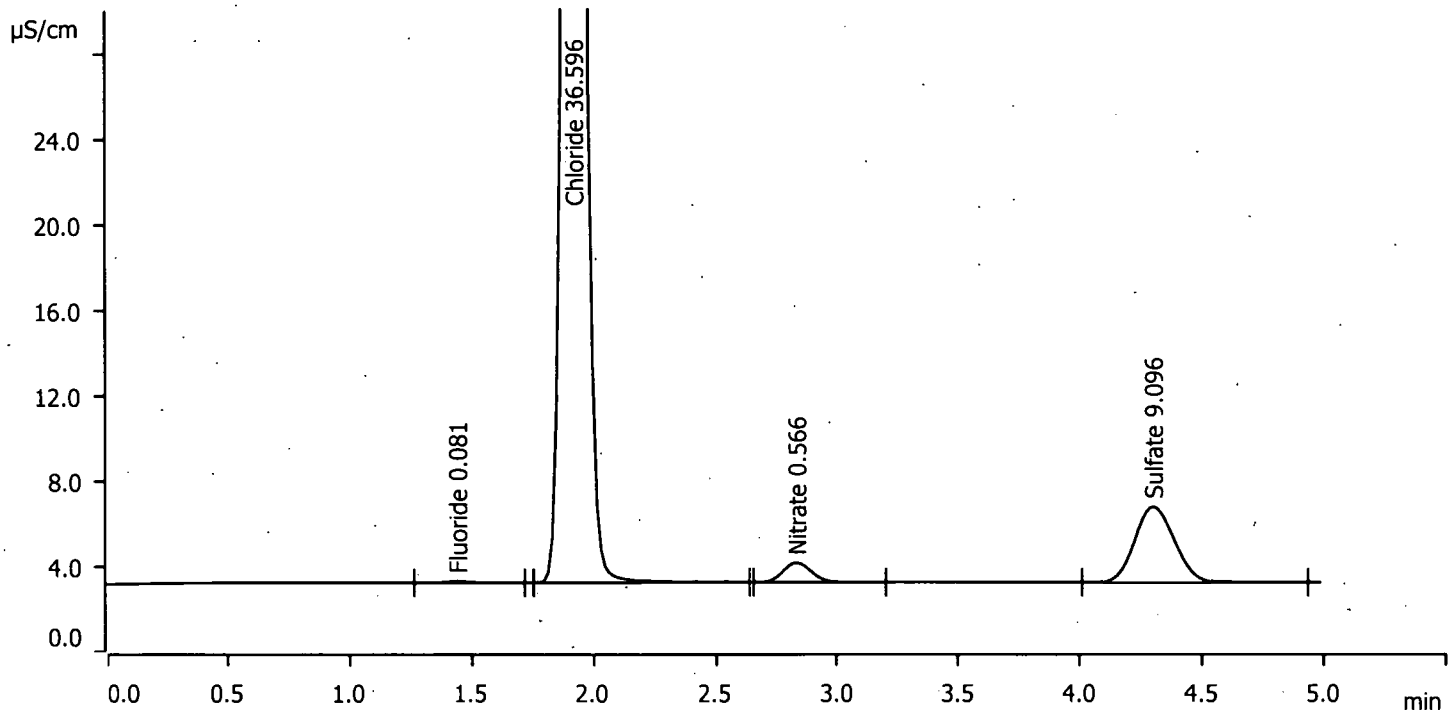
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.546	54.082	Chloride	BB
2	2.82	0.009	0.601	Nitrate	BB
3	4.29	0.050	7.998	Sulfate	BB

Sample data

Ident	R2408259-007
Sample type	Sample
Determination start	2024-09-16 02:31:47 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92445
Sample Position	82
Comment 1	300.0 FS
Comment 2	

Anions



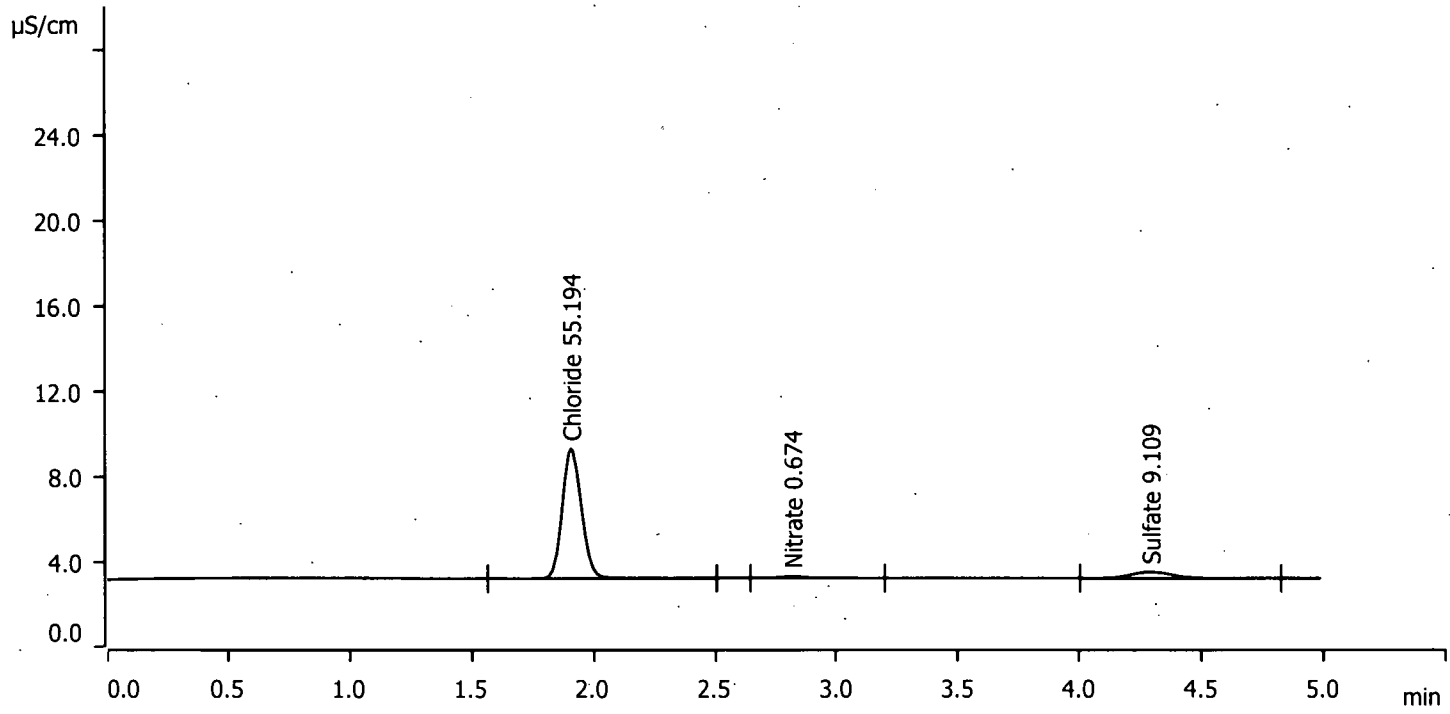
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.009	0.081	Fluoride	BB
2	1.92	7.219	36.596	Chloride	BB
3	2.83	0.122	0.566	Nitrate	BB
4	4.30	0.672	9.096	Sulfate	BB

Sample data

Ident	R2408259-007
Sample type	Sample
Determination start	2024-09-16 02:38:03 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92446
Sample Position	83
Comment 1	300.0 C
Comment 2	

Anions



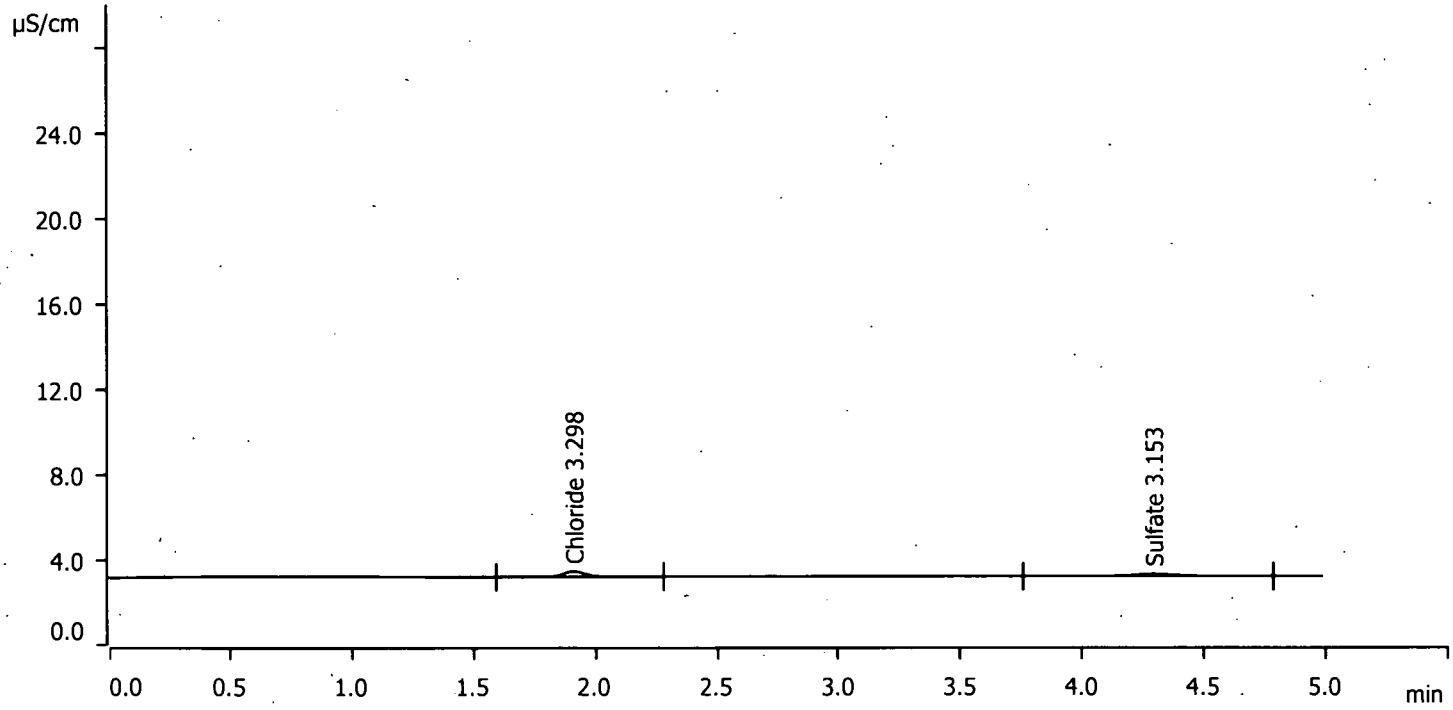
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.559	55.194	Chloride	BB
2	2.82	0.010	0.674	Nitrate	BB
3	4.29	0.057	9.109	Sulfate	BB

Sample data

Ident	R2408337-001
Sample type	Sample
Determination start	2024-09-16 02:44:17 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92447
Sample Position	84
Comment 1	300.0 CS
Comment 2	

Anions



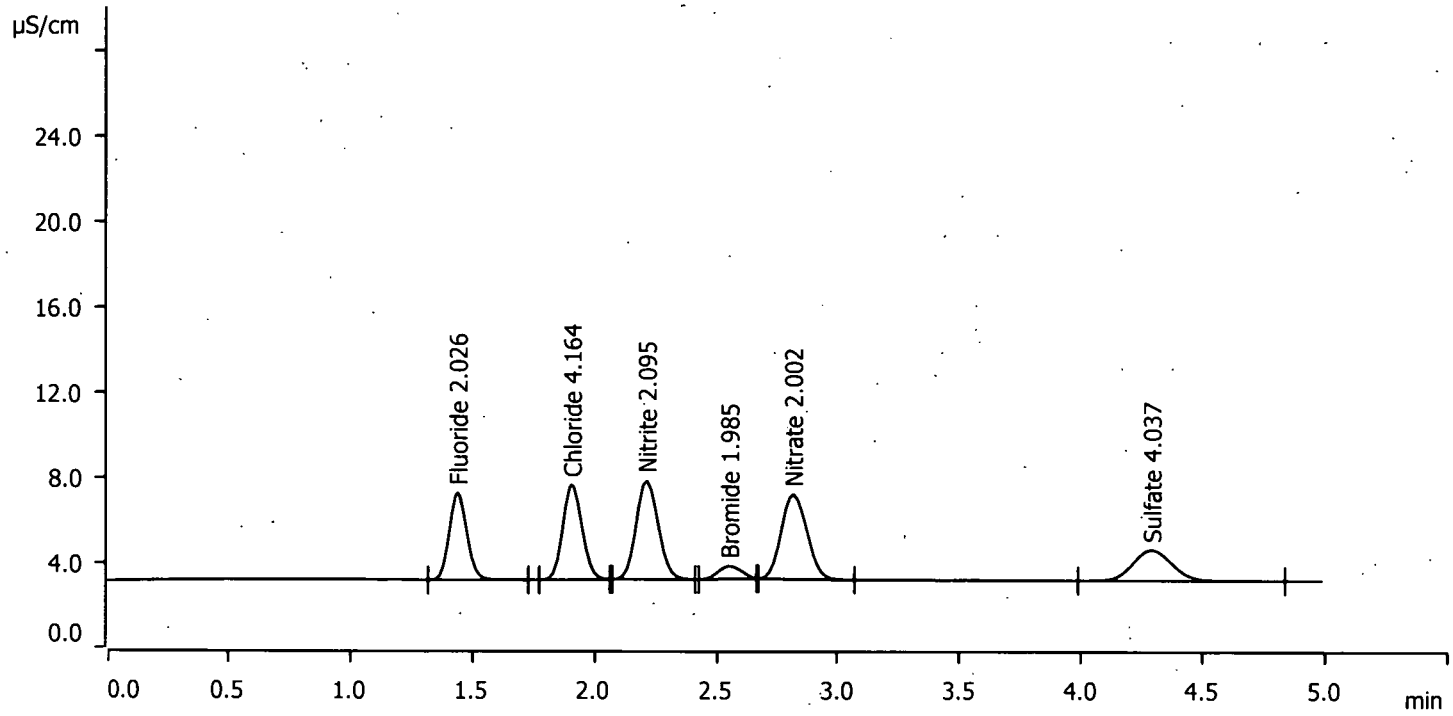
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.026	3.298	Chloride	BB
2	4.29	0.019	3.153	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-16 02:50:36 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92448
Sample Position	85
Comment 1	300.0/9056A
Comment 2	

Anions



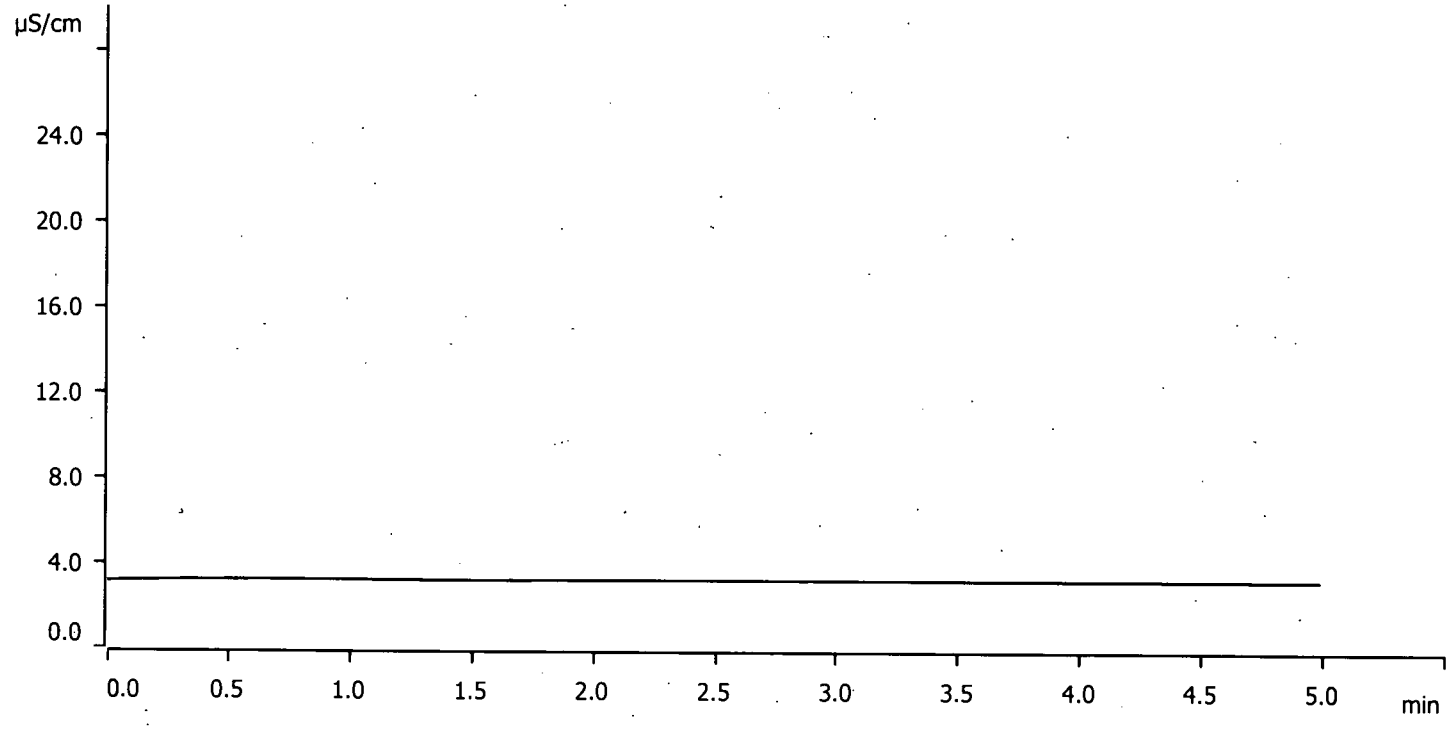
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.340	2.026	Fluoride	BB
2	1.91	0.404	4.164	Chloride	BB
3	2.22	0.485	2.095	Nitrite	BB
4	2.56	0.066	1.985	Bromide	BB
5	2.82	0.487	2.002	Nitrate	BB
6	4.29	0.270	4.037	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-16 02:56:52 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92449
Sample Position	86
Comment 1	300.0/9056A
Comment 2	

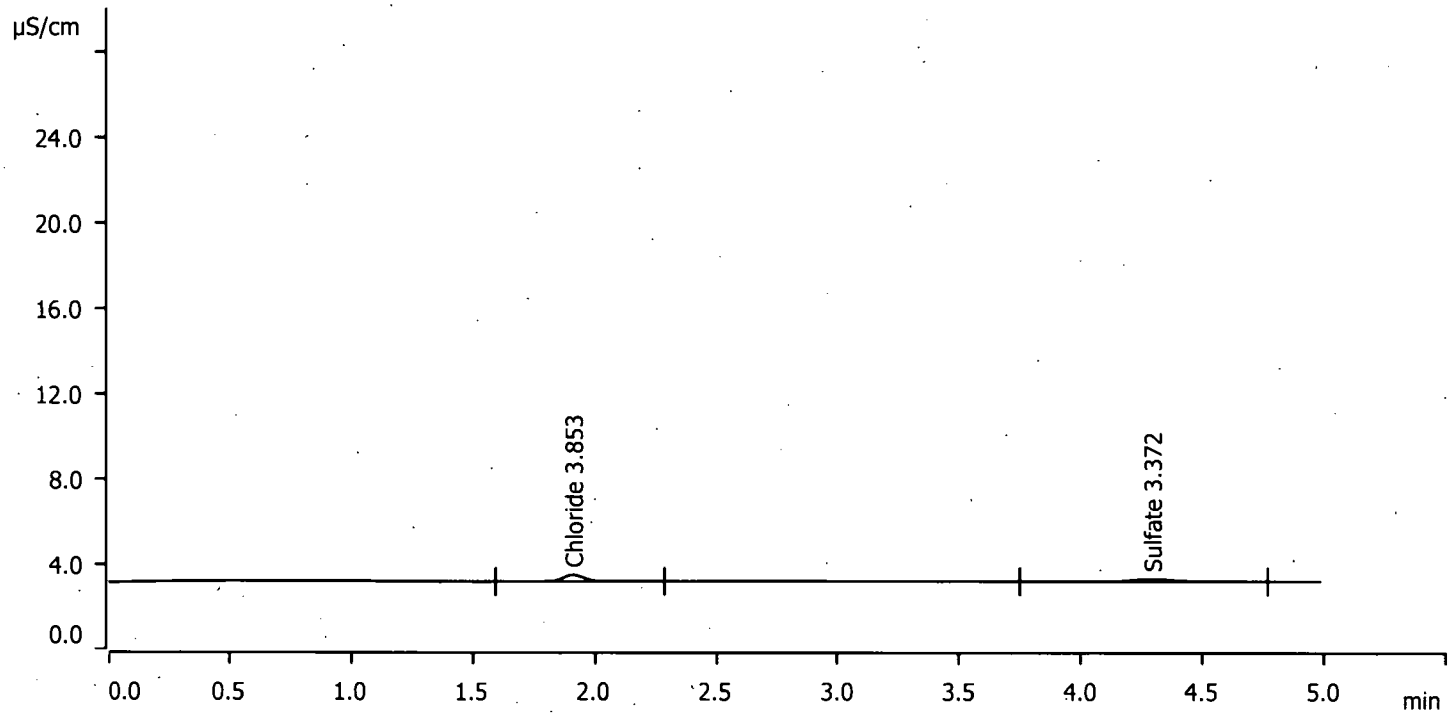
Anions



Sample data

Ident	R2408337-003
Sample type	Sample
Determination start	2024-09-16 03:03:06 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92450
Sample Position	87
Comment 1	300.0 CS
Comment 2	

Anions



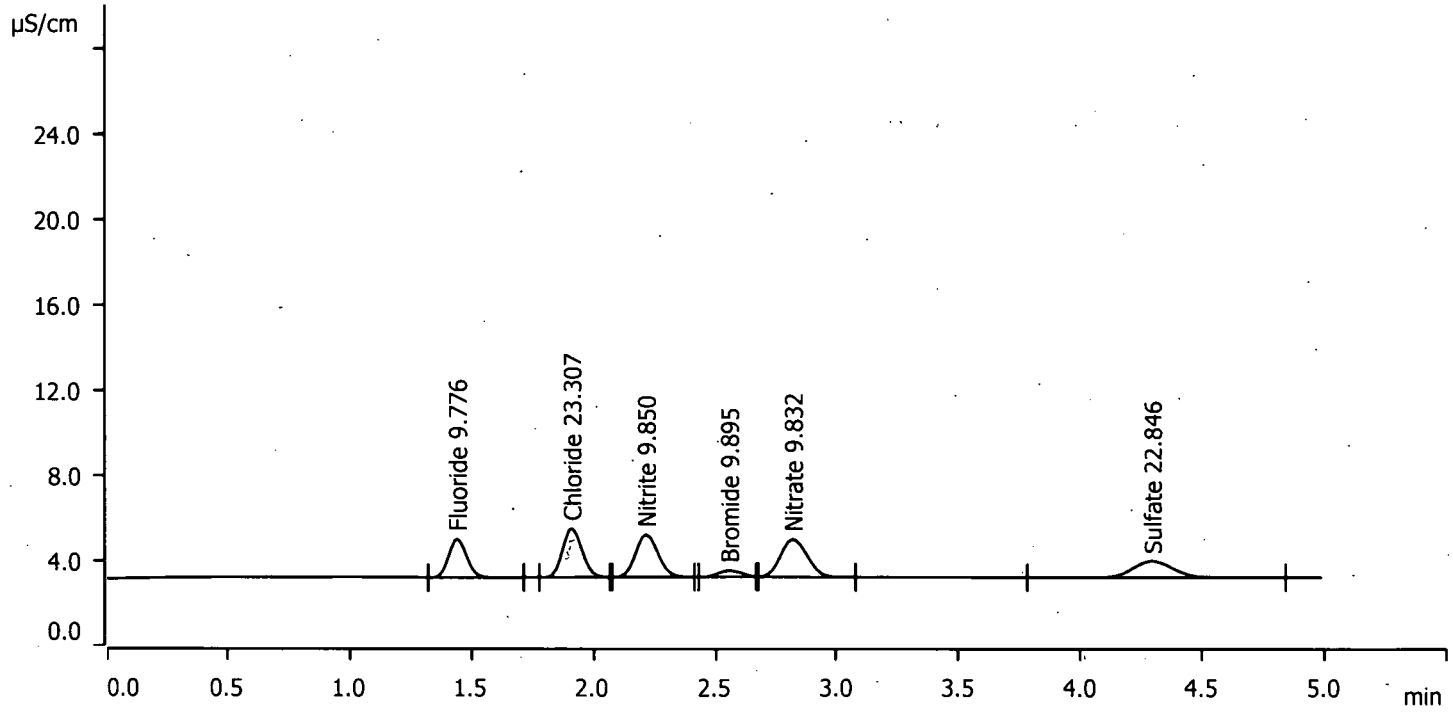
Anions

Peak number	Retention time	Area	Concentration	Component name	Type
	min	(µS/cm) x min	ppm		
1	1.91	0.031	3.853	Chloride	BB
2	4.29	0.021	3.372	Sulfate	BB

Sample data

Ident	R2408337-003 MS
Sample type	Sample
Determination start	2024-09-16 03:09:21 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92451
Sample Position	88
Comment 1	300.0 CS
Comment 2	

Anions



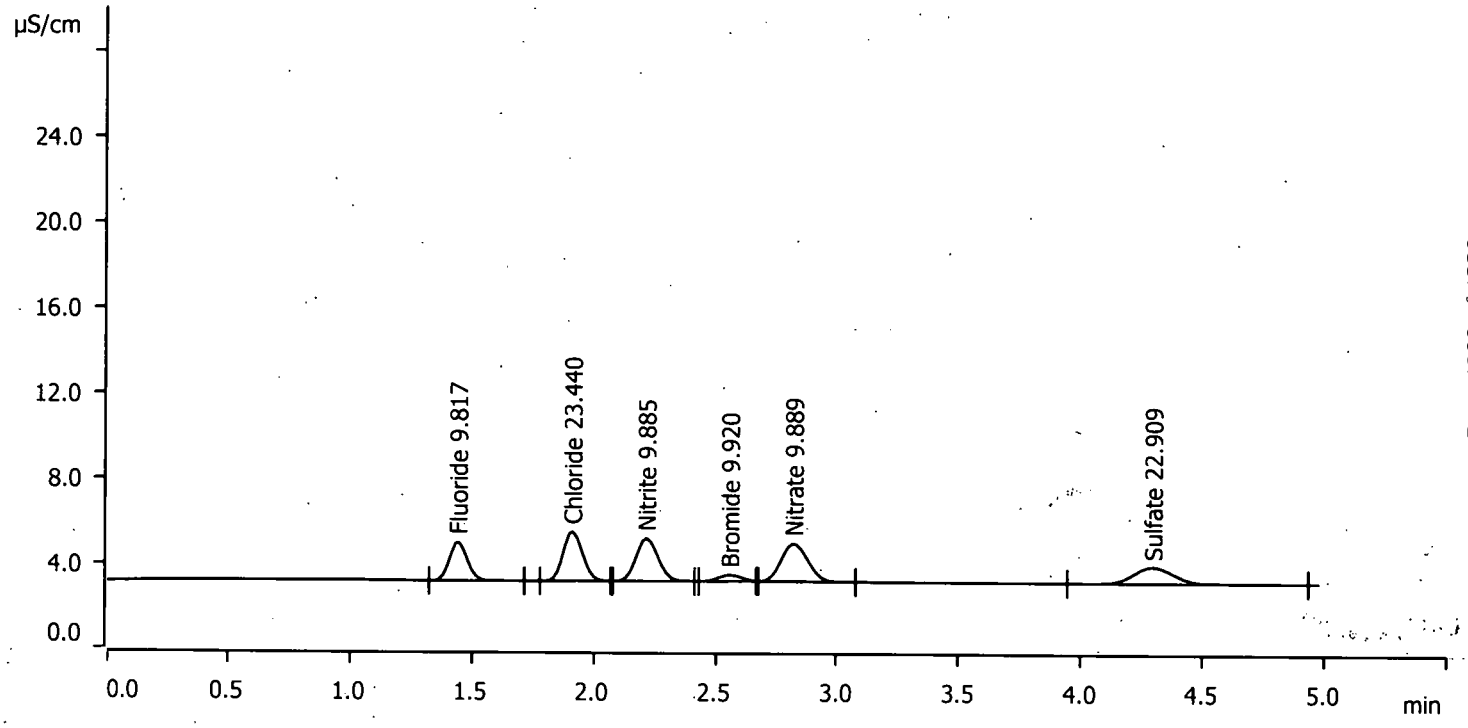
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.153	9.776	Fluoride	BB
2	1.91	0.212	23.307	Chloride	BB
3	2.22	0.213	9.850	Nitrite	BB
4	2.56	0.032	9.895	Bromide	BB
5	2.82	0.221	9.832	Nitrate	BB
6	4.29	0.147	22.846	Sulfate	BB

Sample data

Ident	R2408337-003 MSD
Sample type	Sample
Determination start	2024-09-16 03:15:36 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92452
Sample Position	89
Comment 1	300.0 CS
Comment 2	

Anions



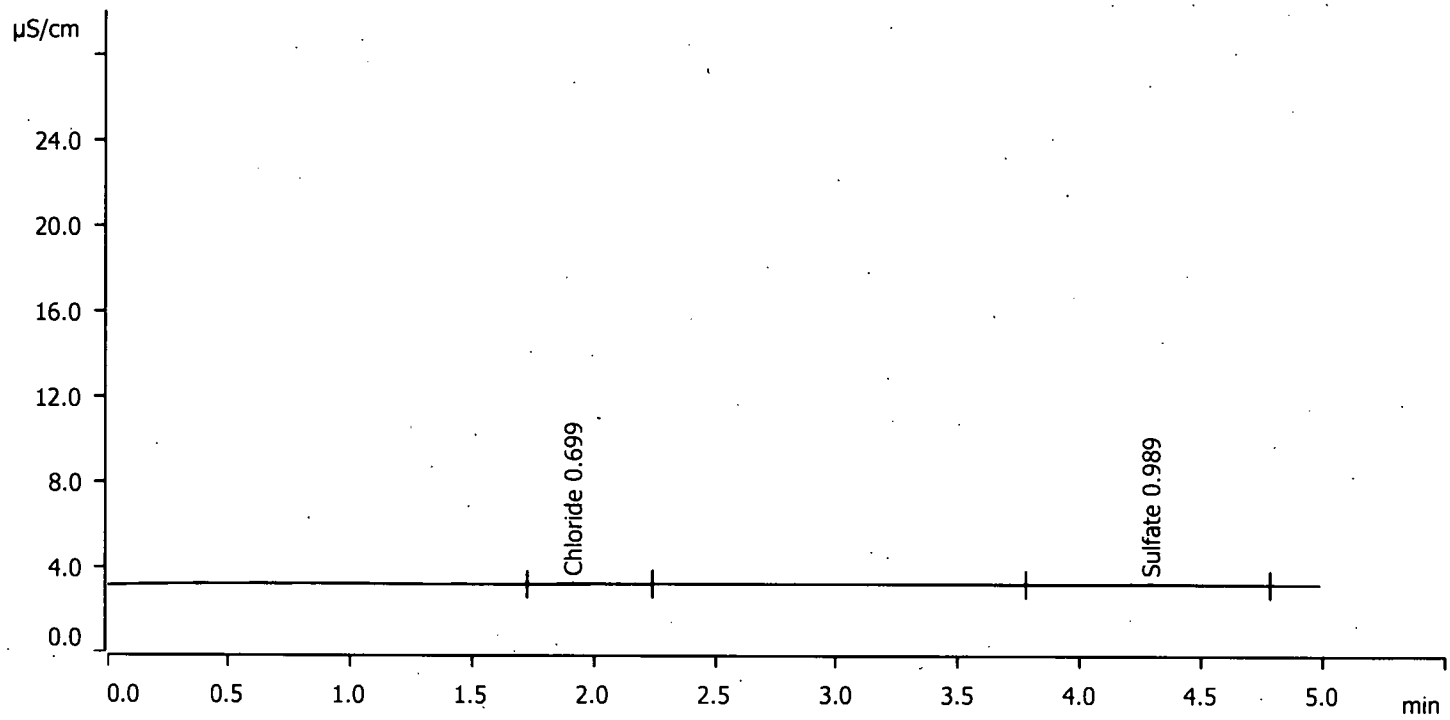
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.154	9.817	Fluoride	BB
2	1.91	0.214	23.440	Chloride	BB
3	2.22	0.213	9.885	Nitrite	BB
4	2.56	0.032	9.920	Bromide	BB
5	2.82	0.222	9.889	Nitrate	BB
6	4.29	0.148	22.909	Sulfate	BB

Sample data

Ident	R2408337-005
Sample type	Sample
Determination start	2024-09-16 03:21:51 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92453
Sample Position	90
Comment 1	300.0 CS
Comment 2	

Anions



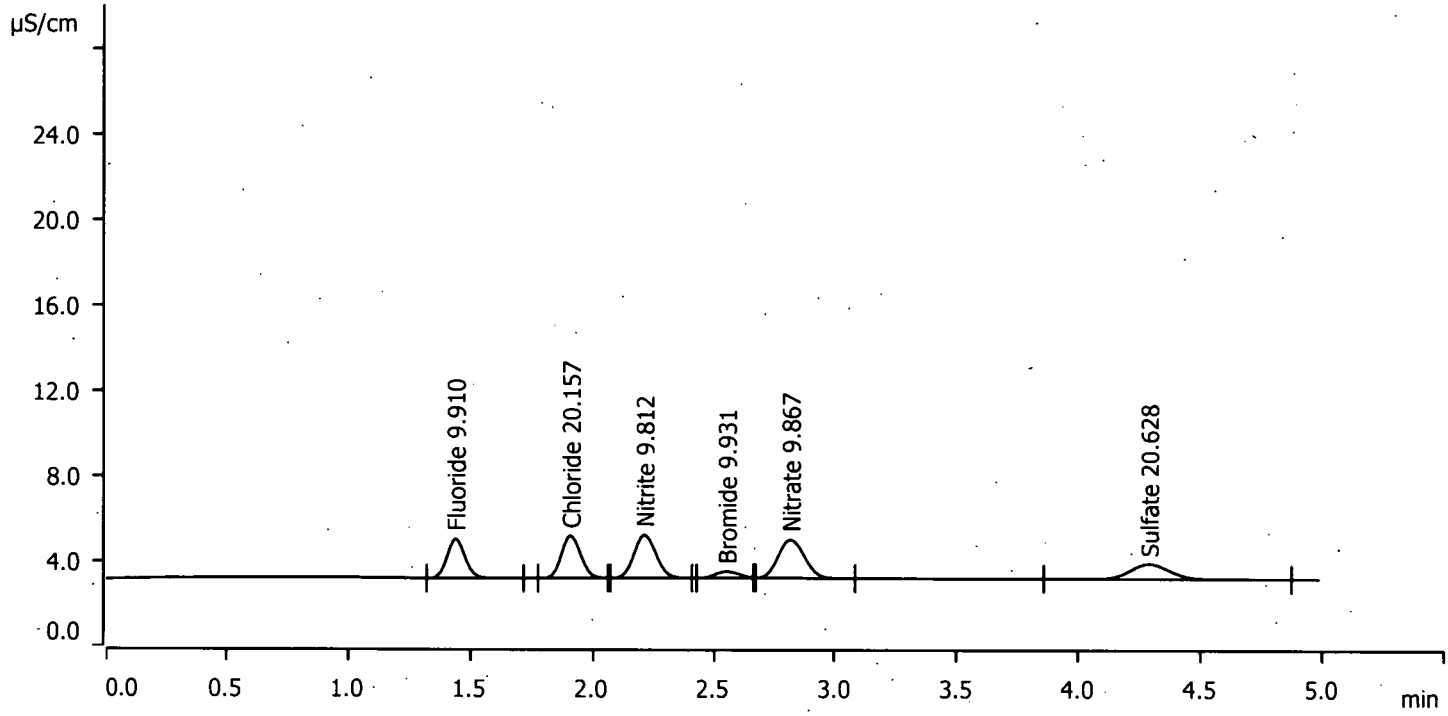
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.004	0.699	Chloride	BB
2	4.29	0.006	0.989	Sulfate	BB

Sample data

Ident	R2408337-005 MS!
Sample type	Sample
Determination start	2024-09-16 03:28:06 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92454
Sample Position	91
Comment 1	300.0 CS
Comment 2	

Anions



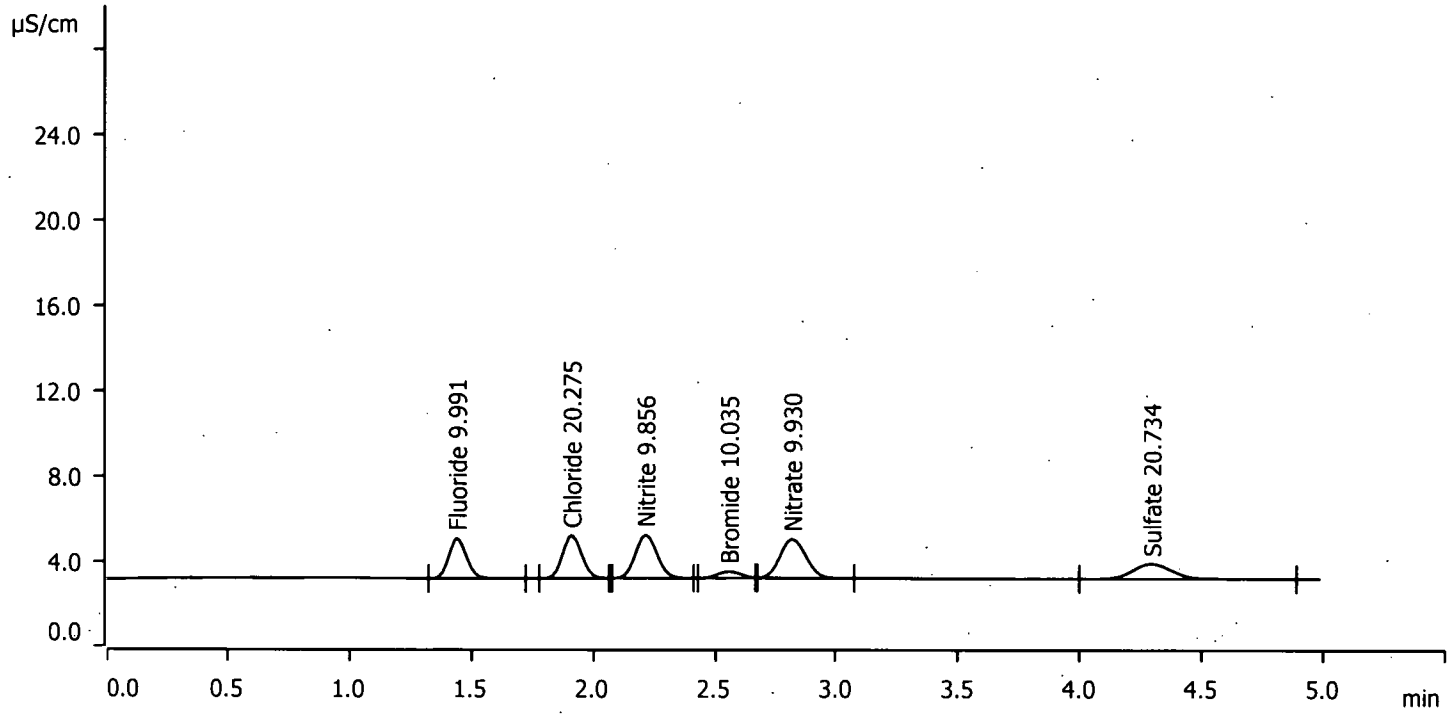
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.155	9.910	Fluoride	BB
2	1.91	0.181	20.157	Chloride	BB
3	2.22	0.212	9.812	Nitrite	BB
4	2.56	0.032	9.931	Bromide	BB
5	2.82	0.222	9.867	Nitrate	BB
6	4.29	0.133	20.628	Sulfate	BB

Sample data

Ident	R2408337-005 MSD!
Sample type	Sample
Determination start	2024-09-16 03:34:22 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92455
Sample Position	92
Comment 1	300.0 CS
Comment 2	

Anions



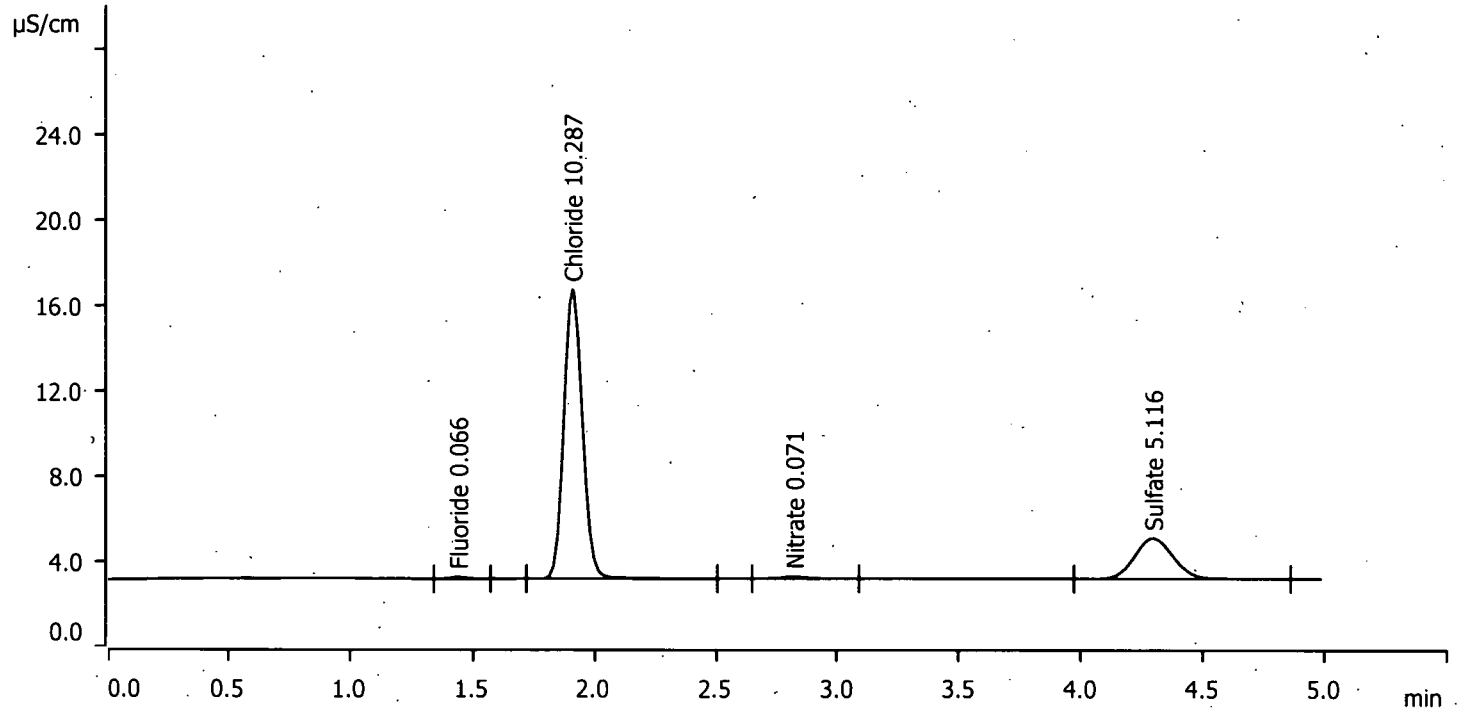
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.157	9.991	Fluoride	BB
2	1.91	0.183	20.275	Chloride	BB
3	2.22	0.213	9.856	Nitrite	BB
4	2.56	0.032	10.035	Bromide	BB
5	2.82	0.223	9.930	Nitrate	BB
6	4.29	0.133	20.734	Sulfate	BB

Sample data

Ident	R2408341-001
Sample type	Sample
Determination start	2024-09-16 03:40:37 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92456
Sample Position	93
Comment 1	300.0 FS
Comment 2	

Anions



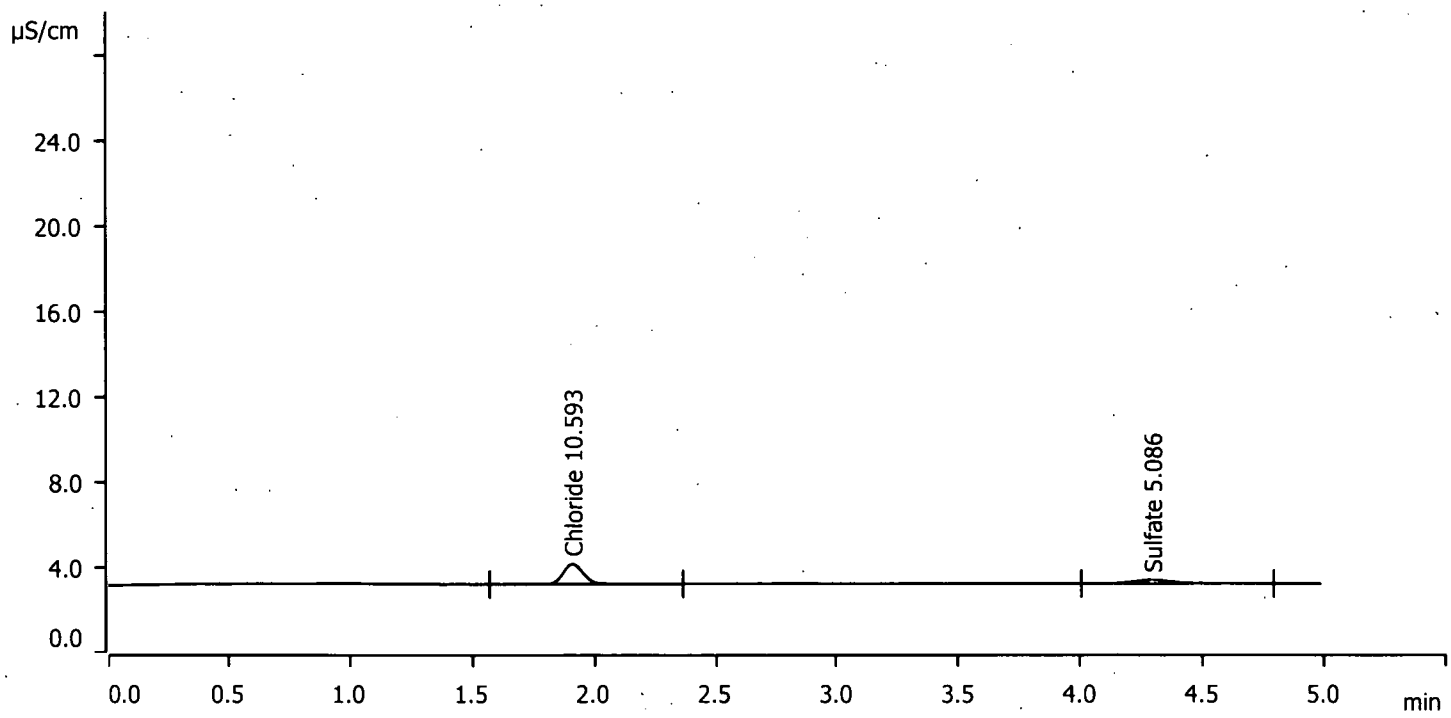
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.007	0.066	Fluoride	BB
2	1.91	1.195	10.287	Chloride	BB
3	2.82	0.011	0.071	Nitrate	BB
4	4.30	0.350	5.116	Sulfate	BB

Sample data

Ident	R2408341-001
Sample type	Sample
Determination start	2024-09-16 03:46:52 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92457
Sample Position	94
Comment 1	300.0 C
Comment 2	

Anions



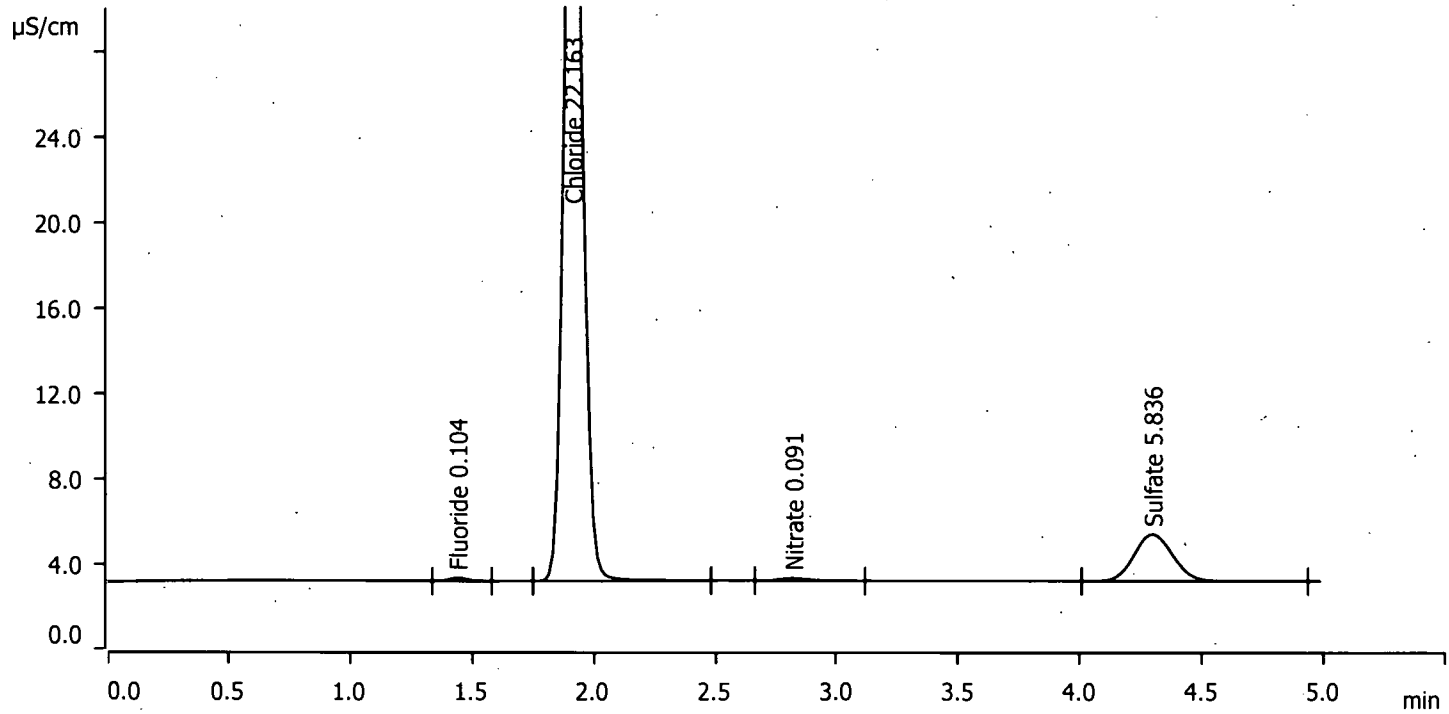
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.091	10.593	Chloride	BB
2	4.29	0.032	5.086	Sulfate	BB

Sample data

Ident	R2408341-003
Sample type	Sample
Determination start	2024-09-16 03:53:07 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92458
Sample Position	95
Comment 1	300.0 FS
Comment 2	

Anions



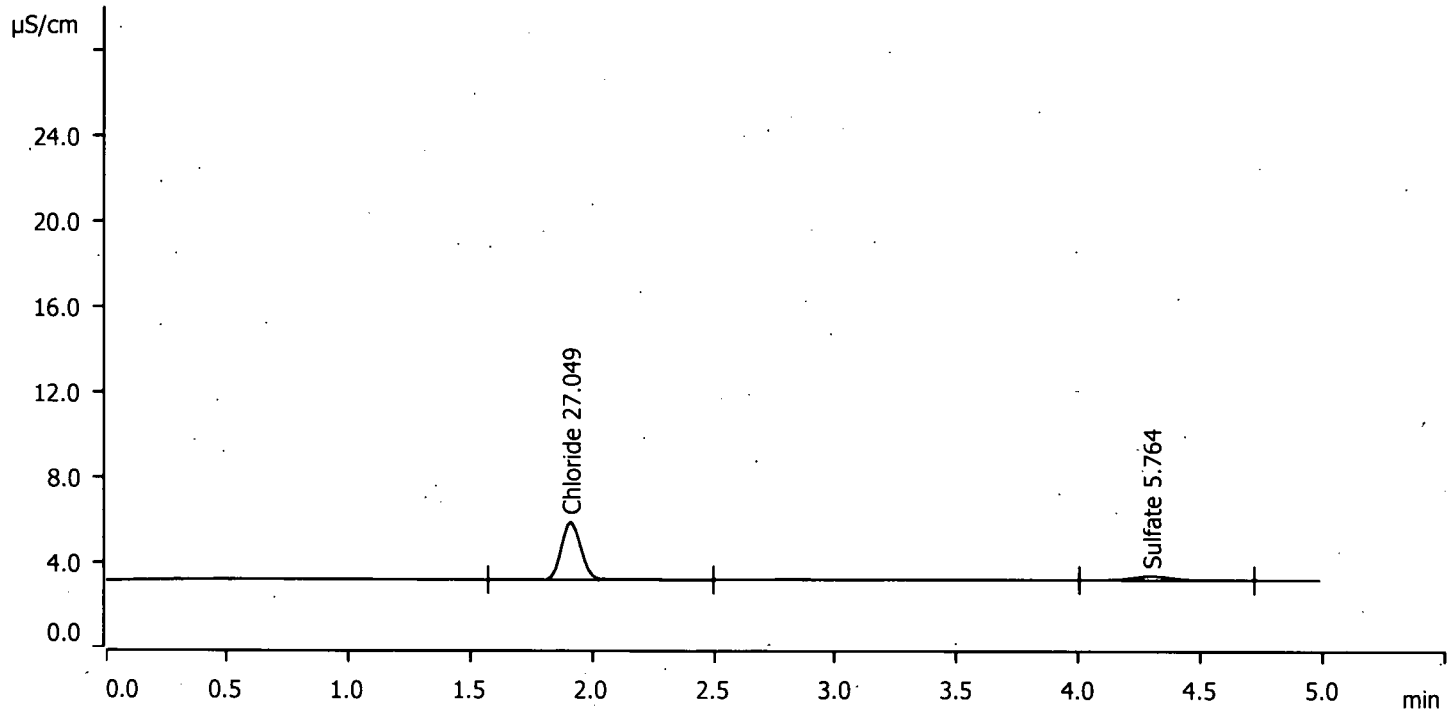
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.013	0.104	Fluoride	BB
2	1.92	3.387	22.163	Chloride	BB
3	2.82	0.015	0.091	Nitrate	BB
4	4.30	0.405	5.836	Sulfate	BB

Sample data

Ident	R2408341-003
Sample type	Sample
Determination start	2024-09-16 03:59:22 UTC-4
Method	10-091224FAST
Dilution	10
Counter	92459
Sample Position	96
Comment 1	300.0 C
Comment 2	

Anions



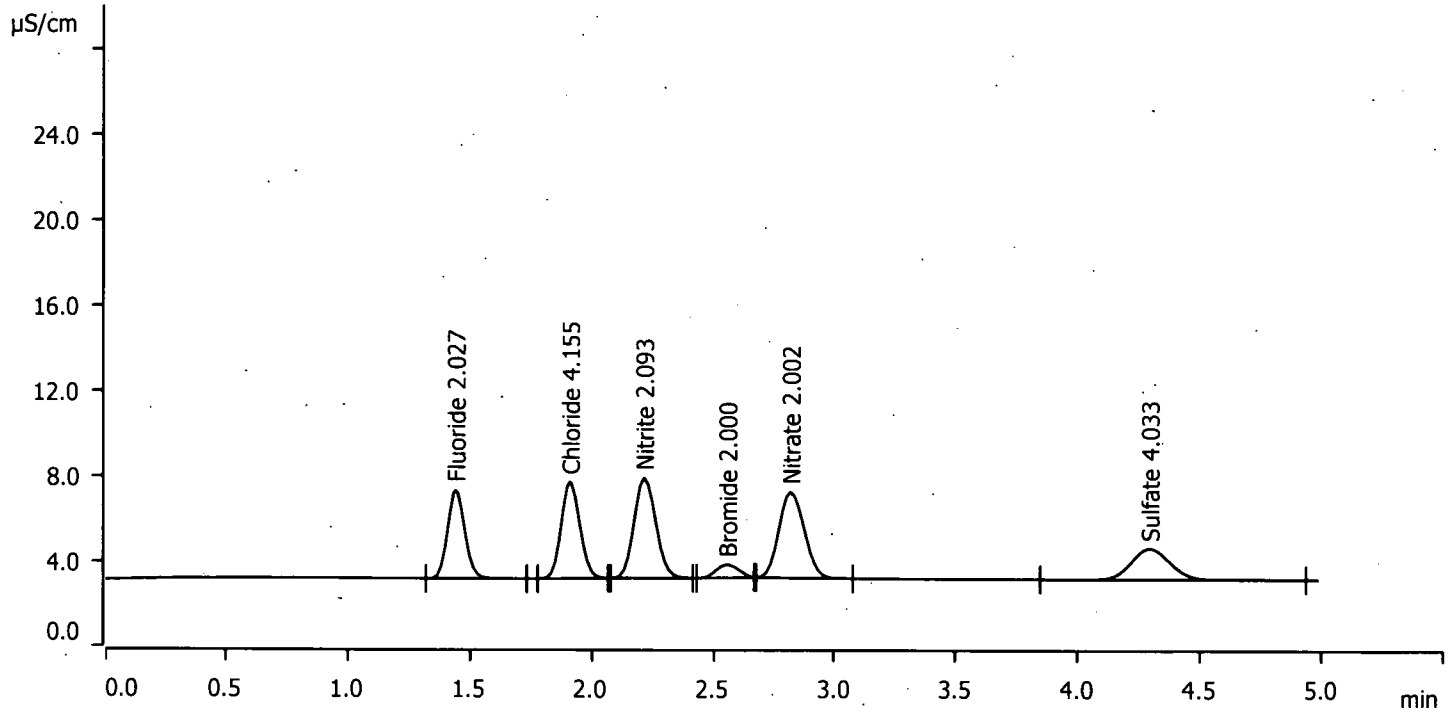
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.91	0.250	27.049	Chloride	BB
2	4.30	0.036	5.764	Sulfate	BB

Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-16 04:05:37 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92460
Sample Position	97
Comment 1	300.0/9056A
Comment 2	

Anions



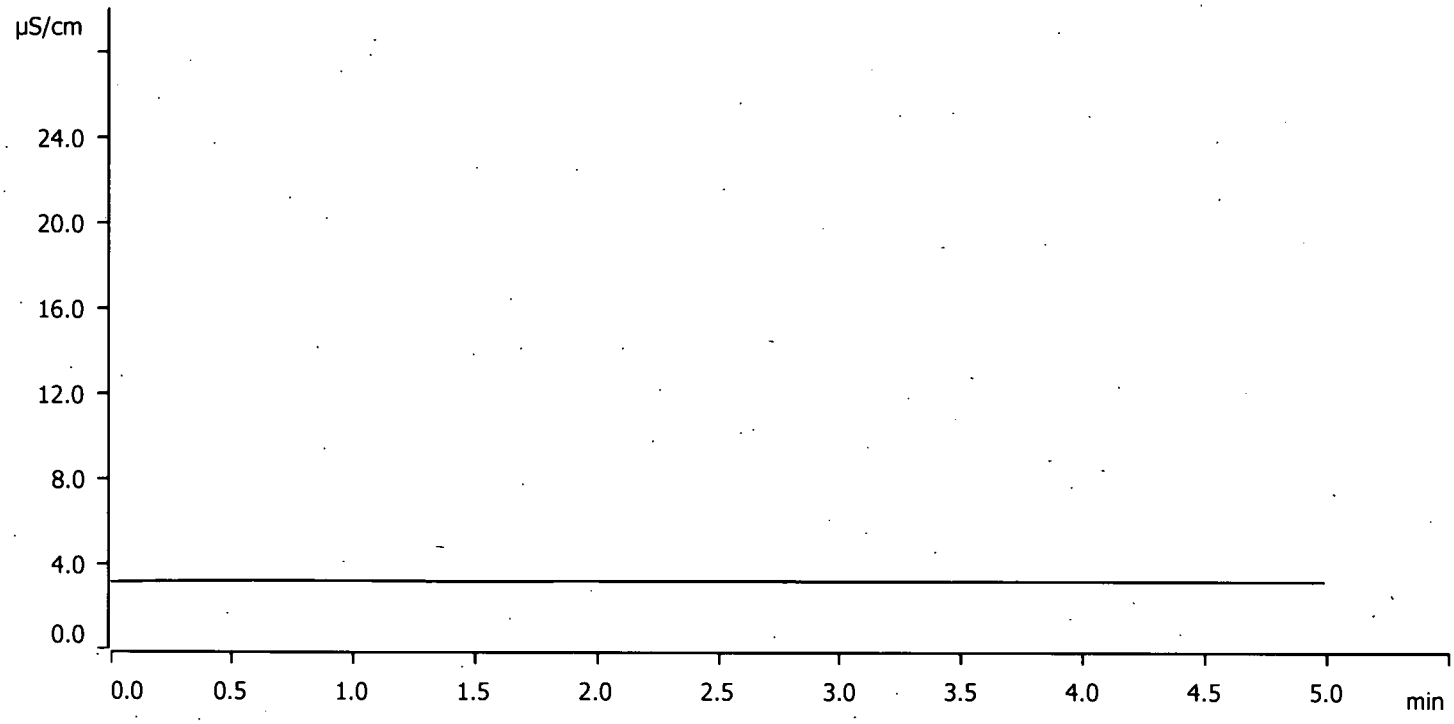
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.340	2.027	Fluoride	BB
2	1.91	0.403	4.155	Chloride	BB
3	2.22	0.485	2.093	Nitrite	BB
4	2.56	0.066	2.000	Bromide	BB
5	2.82	0.487	2.002	Nitrate	BB
6	4.29	0.270	4.033	Sulfate	BB

Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-16 04:11:53 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92461
Sample Position	98
Comment 1	300.0/9056A
Comment 2	

Anions



ALS Environmental

1575 Jefferson Road, Building 300, Suite 360, Rochester, New York 14623

Ion Chromatography Cover Sheet

Instrument: Metrohm IC 930 (IC#10)

Column: Dionex IonPac AS22-Fast (Installed 07/25/2024)

Curve Date: 09/12/24 **Loop size: 25 uL Loop**

Analyst: KW|KAW **Analysis Date:** 9-15-24

Balance ID for Soil Preparation: N|A

Is copy of LCS attached to run? (YES) NO

Method Filename: 10-091224FAST

Standards Prep Dates & Log ID's:

Std Type	*Prep Date*	*Log ID*		*Std Type*	*Prep Date*	*Log ID*
Calibration Intermediate	08/09/2024	236789		Working Calibration Stds	09/12/2024	WC236014B
LCS / MS Intermediate	08/09/2024	236789		Working LCS/MS Standard	09/15/2024	WC236098K
ICV Intermediate	08/09/2024	236787		Working ICV Standard	09/12/2024	WC236040I
CCV Intermediate	08/09/2024	236787		Working CCV Standard	09/15/2024	WC236040K

Original Retention Times for this method are based on Standard 6 and are as follows:

Fluoride: 1.44	Bromide: 2.56
Chloride: 1.91	Nitrate: 2.82
Nitrite: 2.22	Sulfate: 4.27

Additional Comments: Column Serial Number: 240212573
Linear Range Verification (High Standard) Analyzed: 03/09/2024 – Due Every Six Months

Pipets: Chrome, Bottom
Disposable Pipet ID: (Fisher) 26023005

Eluent Stock (100x): 235121
Suppressor Stock (5x): 235047

LCS Prep

(Stocks delivered using volumetric glassware and brought to volume with DI. LCS expires after 7 days; if NO_2 is needed, LCS must be prepared daily.)

(MS prepared fresh daily using same volume of intermediate stock added to 100mLs sample. MS not prepared volumetrically.)

Analyte	Calibration Intermediate Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst / Date Prepped	Lot ID	Exp. Date	Matrix H_2SO_4 / NaOH / DI	H_2SO_4 / NaOH Lot #
F	2367894	50	2.0	200	1.0	KW 9/3/24	A	9/10/24	DI	—
Cl		100			2.0	KW 9/4/24	B	9/11/24	DI	—
NO_2		50			1.0	KW 9/5/24	C	9/12/24	DI	—
Br		50			1.0	KW 9/6/24	D	9/13/24	DI	—
NO_3		50			1.0	KW 9/7/24	E	9/14/24	DI	—
OPO_4		50			1.0	KW 9/9/24	F	9/16/24	DI	—
SO_4		100			2.0	KW 9/10/24	G	9/17/24	DI	—
						KW 9/11/24	H	9/18/24	DI	—
						KW 9/12/24	I	9/19/24	DI	—
						KW 9/14/24	J	9/21/24	DI	—
						KW 9/15/24	K	9/22/24	DI	—
						KW 9/16/24	L	9/23/24	DI	—
							M			
							N			
							O			
							P			
							Q			
							R			

ICV / CCV PREP

(A 1:1 dilution of the Reference Intermediate Stock is done daily.)

Analyte	ICV / CCV Intermediate Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst / Date Prepped	Lot ID	Exp. Date	Matrix H_2SO_4 / NaOH / DI	H_2SO_4 / NaOH Lot #
F	236787	4.00	5.0	10.0	2.00	KW 9/3/24	A	9/4/24	DI	—
Cl		8.00			4.00	KW 9/4/24	B	9/5/24	DI	—
NO_2		4.00			2.00	KW 9/5/24	C	9/6/24	DI	—
Br		4.00			2.00	KW 9/6/24	D	9/7/24	DI	—
NO_3		4.00			2.00	KW 9/7/24	E	9/8/24	DI	—
OPO_4		4.00			2.00	KW 9/9/24	F	9/10/24	DI	—
SO_4		8.00			4.00	KW 9/10/24	G	9/11/24	DI	—
						KW 9/11/24	H	9/12/24	DI	—
						KW 9/12/24	I	9/13/24	DI	—
						KW 9/14/24	J	9/15/24	DI	—
						KW 9/15/24	K	9/16/24	DI	—
						KW 9/16/24	L	9/17/24	DI	—
							M			
							N			
							O			
							P			
							Q			
							R			

Analysis: 300.0/9056A
ICAL Date: 9/12/24
Instrument: IC# 10
Curve Type: Linear (Quadratic)

IC Initial Calibration Checklist

☐ 1. Is the required documentation in the ICAL file?
- ☑ IC Cover Sheet – correct?
- ☑ Logbook Copies Complete
- ☑ Method Parameters Report
- ☑ Plots of all analytes
- ☑ Chromatograms of all curve points, ICV, ICB

☑ 2. Was the ICAL performed continuously (i.e., not interrupted for maintenance or for sample analysis)?

KW 9/16/24 NA ☐ 3. For any reanalyzed points, was reanalysis within 8 hours of the final standard of the original ICAL?

☑ 4. Are all the analytes in the blank analysis < MRL?

☑ 5. Have the retention times been updated from the mid-point calibration standard?

☑ 6. Does each analyte's ICAL include, consecutively, the minimum number of concentration levels (3 for linear regression for 300.0, 9056, 7199, 218.6; six for 218.7; six plus blank for any quadratic curve)?

☑ 7. For each analyte, is the lowest standard's concentration at or below the analyte's MRL?

☑ 8. For each analyte, are there no levels skipped?

☑ 9. For each analyte, does a check of the linearity meet a correlation coefficient of ≥0.995 (Method 300/9056) or ≥0.999 (Methods 7199/218.6/218.7)?

☑ 10. For the ICV analysis, is the percent recovery for each analyte 90 – 110% (300.0/9056/7199); 95-105% (218.6); 85-115 (218.7)?

☑ 11. Are all peak integrations acceptable?

☑ 12. Do the peak areas match the Method Parameters Report (has the ICAL file been saved correctly)?

☑ 13. For each analyte, were the appropriate standards re-quantitated and printed?
- ☑ Did the LLOQ meet 50-150% recovery limits at the MRL level standard?
- ☑ Are recoveries of all standards greater than the MRL standard within (10% for 300.0/9056A; 15% for 218.7) of the true value? If a quadratic curve was used for 218.6/7199, are recoveries of all standards greater than the MRL within 10% of the true value?

COMMENTS

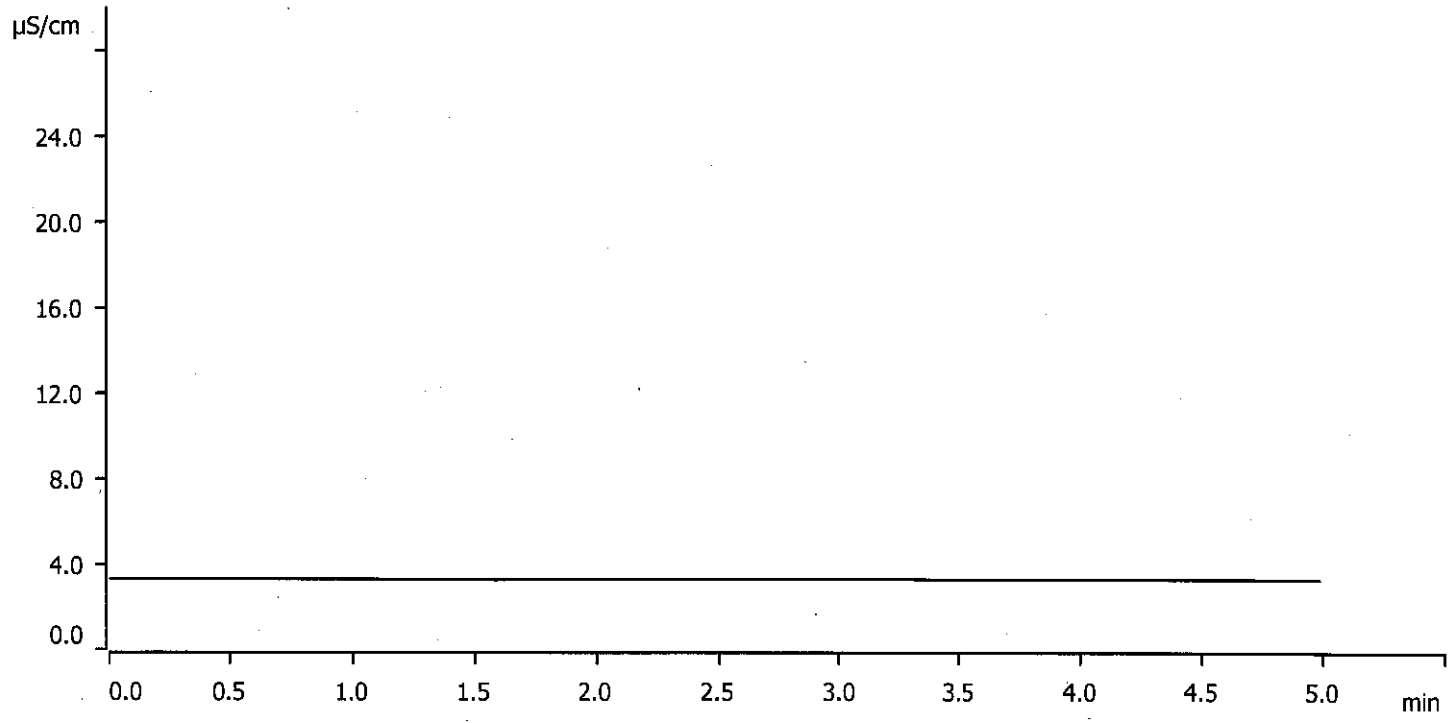
Analyst: KW Date: 9/16/24

Secondary Reviewer: [signature] Date: 9-16-24

Sample data

Ident	STANDARD 1
Sample type	Standard 1
Determination start	2024-09-12 22:04:27 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92042
Sample Position	1
Comment 1	300.0/9056A
Comment 2	

Anions

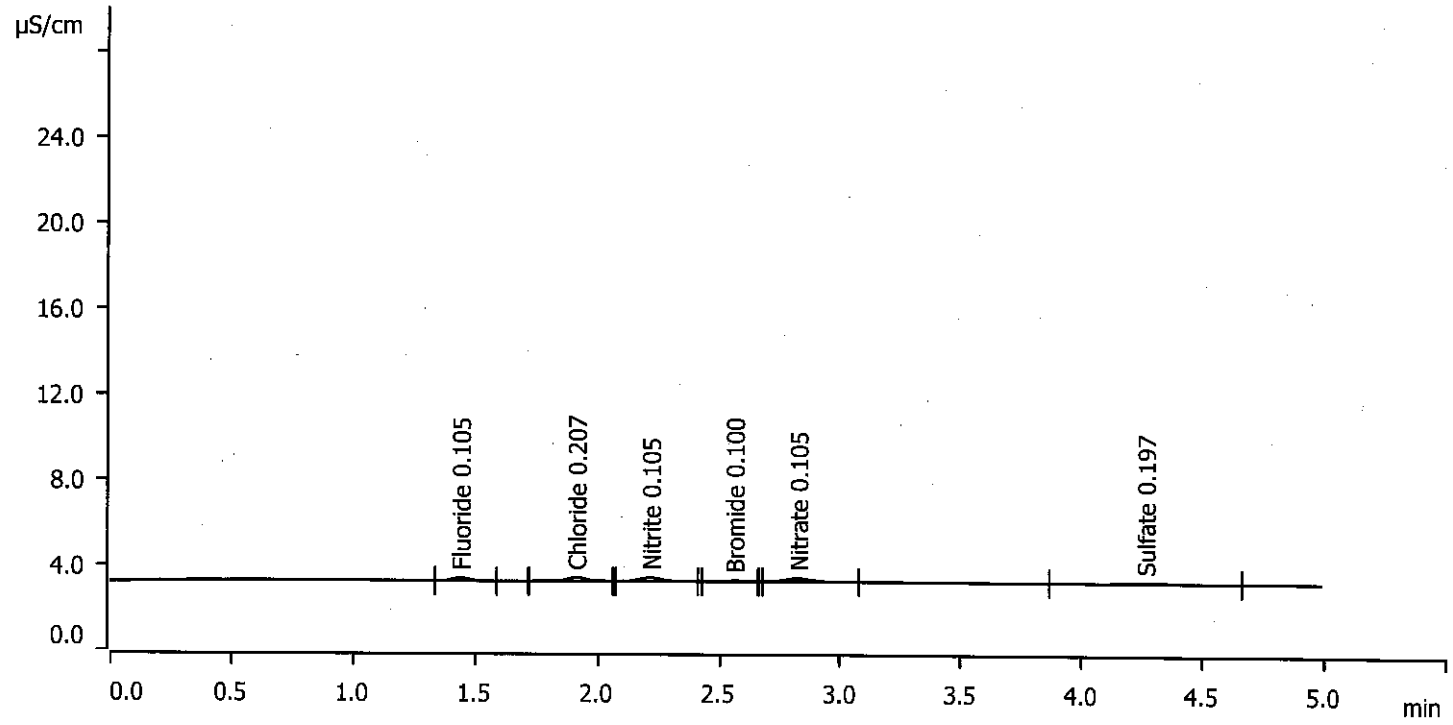


OC
KW
9/16/24

Sample data

Ident	STANDARD 2
Sample type	Standard 2
Determination start	2024-09-12 22:10:43 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92043
Sample Position	2
Comment 1	300.0/9056A
Comment 2	

Anions



Anions

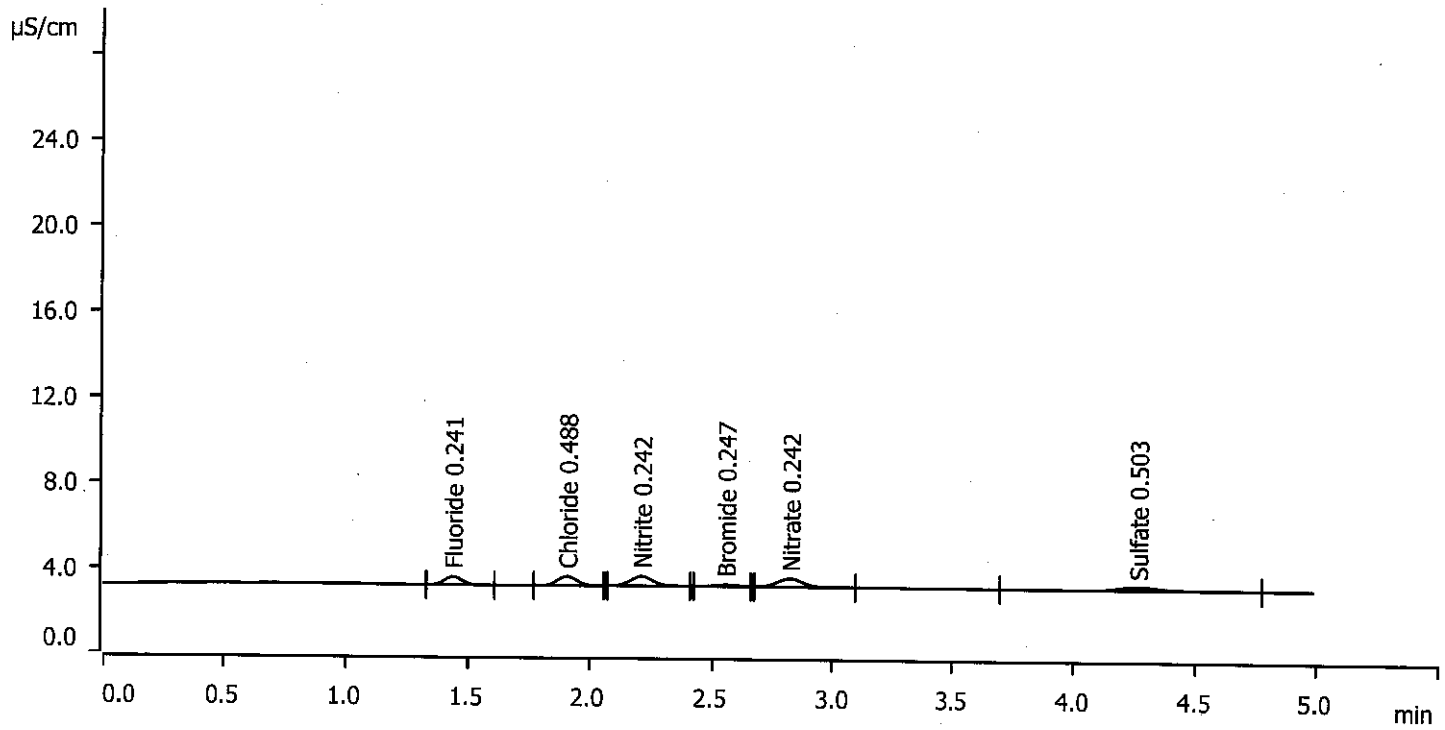
Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type	
1	1.44	0.013	0.105	Fluoride	BB	105%
2	1.91	0.016	0.207	Chloride	BB	103.5%
3	2.22	0.018	0.105	Nitrite	BB	105%
4	2.56	0.003	0.100	Bromide	BB	100%
5	2.83	0.018	0.105	Nitrate	BB	105%
6	4.26	0.012	0.197	Sulfate	BB	98.5%

KW
9/16/24

Sample data

Ident	STANDARD 3
Sample type	Standard 3
Determination start	2024-09-12 22:17:00 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92044
Sample Position	3
Comment 1	300.0/9056A
Comment 2	

Anions



Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type	
1	1.44	0.034	0.241	Fluoride	BB	96.4%
2	1.91	0.040	0.488	Chloride	BB	97.6%
3	2.22	0.047	0.242	Nitrite	BB	96.8%
4	2.56	0.008	0.247	Bromide	BB	98.8%
5	2.82	0.048	0.242	Nitrate	BB	96.8%
6	4.26	0.031	0.503	Sulfate	BB	100.6%

KW
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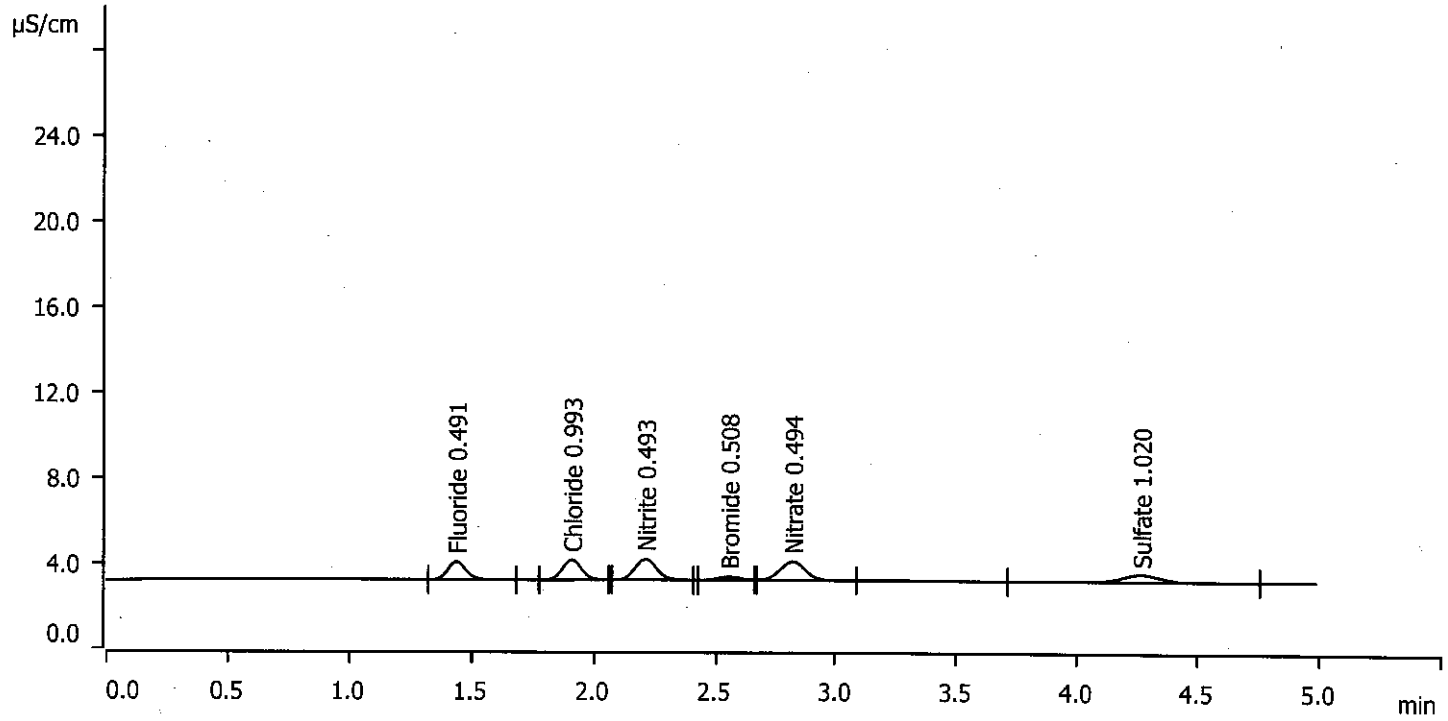
Sample data

Ident	STANDARD 4
Sample type	Standard 4
Determination start	2024-09-12 22:23:18 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92045
Sample Position	4
Comment 1	300.0/9056A
Comment 2	

Anions



Anions

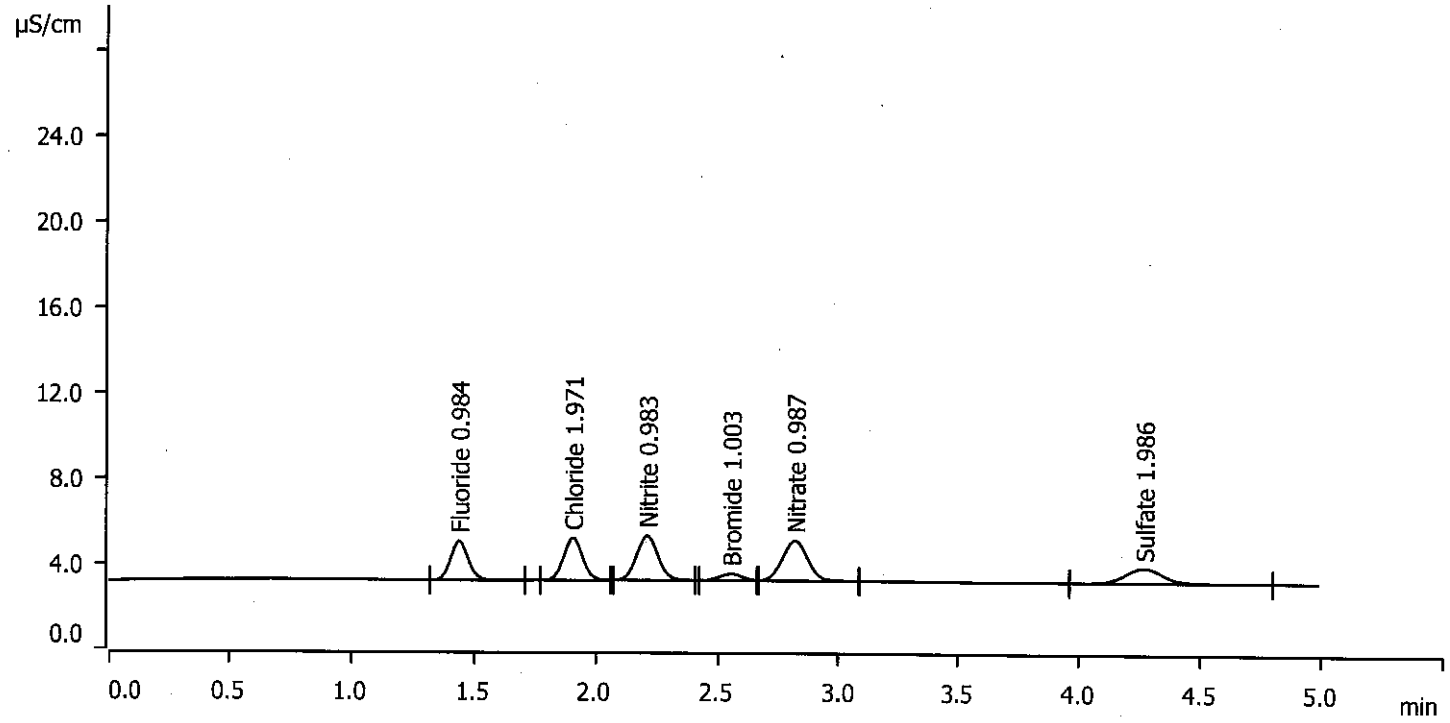
Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type	
1	1.44	0.073	0.491	Fluoride	BB	98.2%
2	1.91	0.085	0.993	Chloride	BB	99.3%
3	2.22	0.102	0.493	Nitrite	BB	98.6%
4	2.56	0.016	0.508	Bromide	BB	101.6%
5	2.82	0.105	0.494	Nitrate	BB	98.8%
6	4.27	0.064	1.020	Sulfate	BB	102%

KW
9/16/24

Sample data

Ident	STANDARD 5
Sample type	Standard 5
Determination start	2024-09-12 22:29:34 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92046
Sample Position	5
Comment 1	300.0/9056A
Comment 2	

Anions



Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type	
1	1.44	0.154	0.984	Fluoride	BB	98.4%
2	1.91	0.177	1.971	Chloride	BB	98.5%
3	2.22	0.212	0.983	Nitrite	BB	98.3%
4	2.56	0.032	1.003	Bromide	BB	100.3%
5	2.82	0.222	0.987	Nitrate	BB	98.7%
6	4.27	0.127	1.986	Sulfate	BB	99.3%

KW
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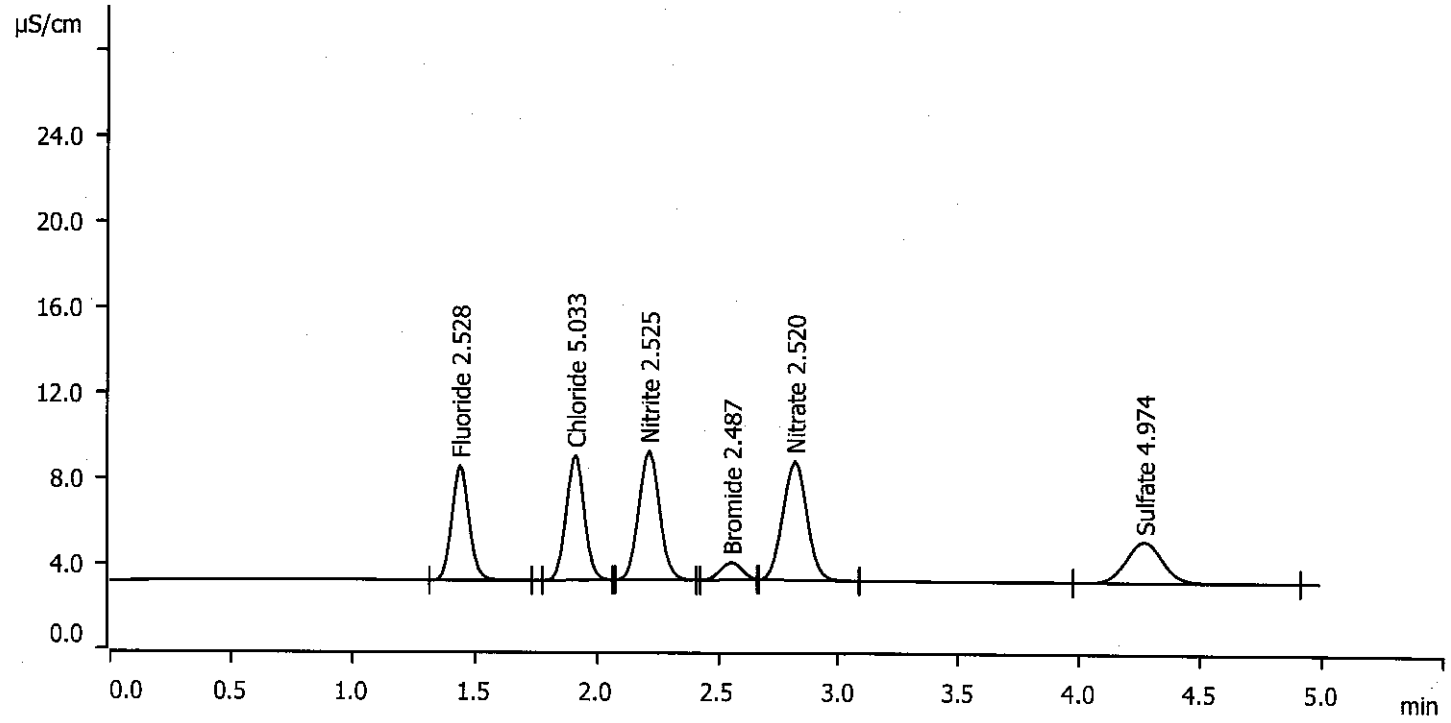
Sample data

Ident	STANDARD 6
Sample type	Standard 6
Determination start	2024-09-12 22:35:50 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92047
Sample Position	6
Comment 1	300.0/9056A
Comment 2	

Anions



Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type	
1	1.44	0.436	2.528	Fluoride	BB	101.1%
2	1.91	0.502	5.033	Chloride	BB	100.7%
3	2.22	0.599	2.525	Nitrite	BB	101%
4	2.56	0.084	2.487	Bromide	BB	99.5%
5	2.82	0.636	2.520	Nitrate	BB	100.8%
6	4.27	0.339	4.974	Sulfate	BB	99.5%

KW
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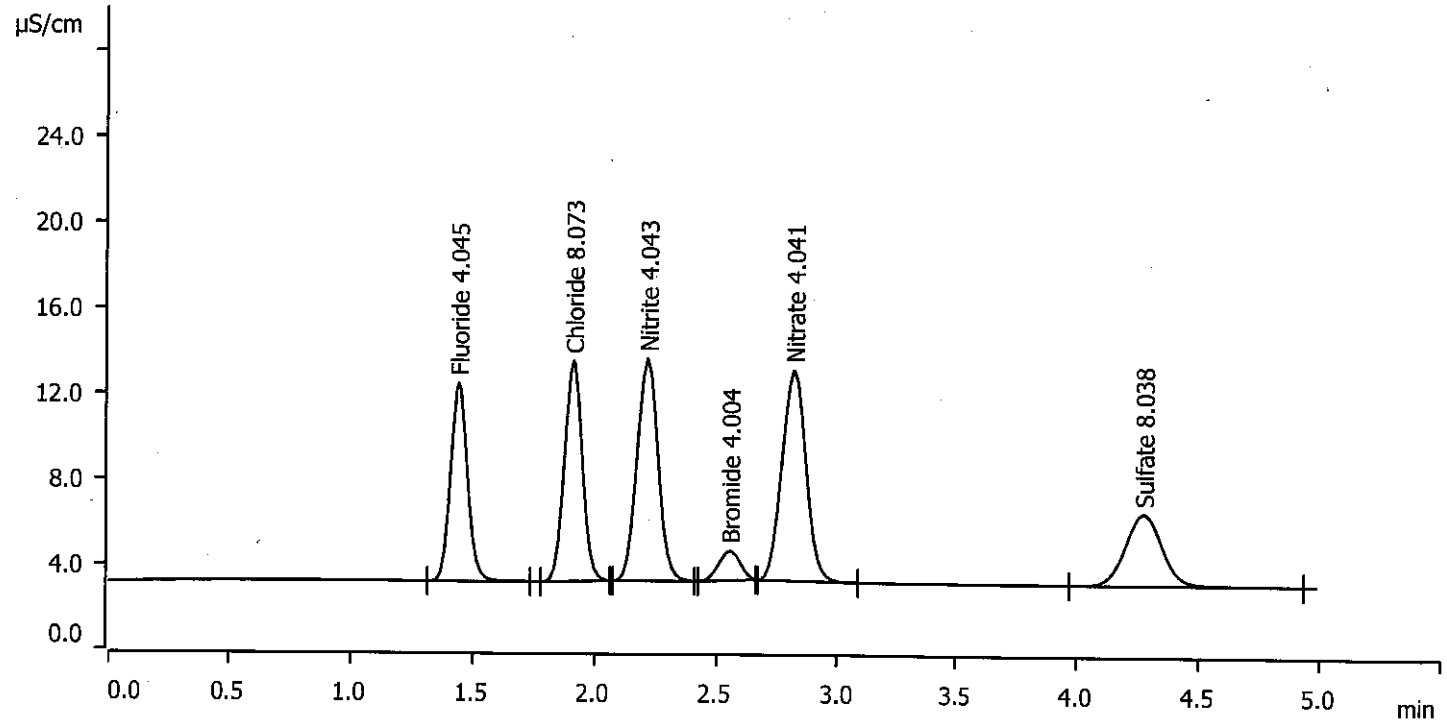
Sample data

Ident	STANDARD 7
Sample type	Standard 7
Determination start	2024-09-12 22:42:06 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92048
Sample Position	7
Comment 1	300.0/9056A
Comment 2	

Anions



Anions

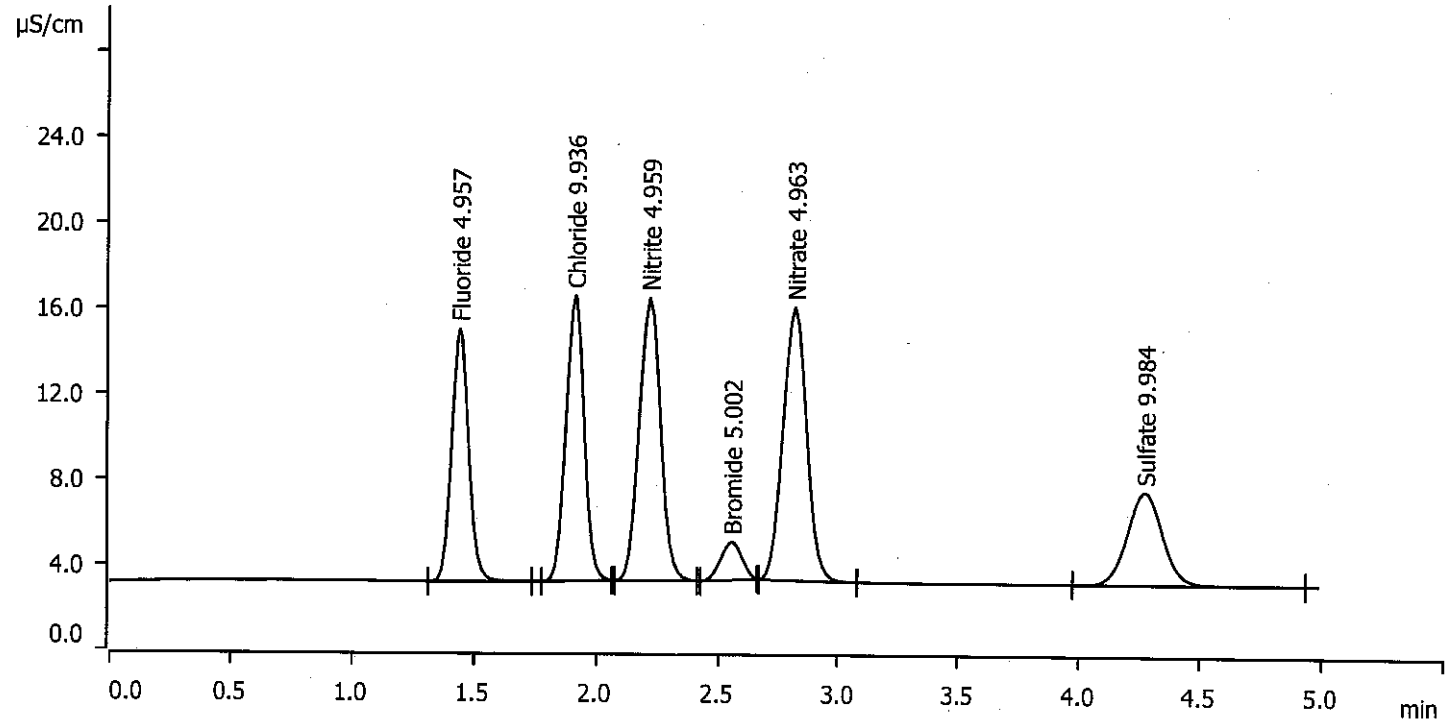
Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type	
1	1.44	0.755	4.045	Fluoride	BB	101.1 %
2	1.91	0.883	8.073	Chloride	BB	100.9 %
3	2.22	1.038	4.043	Nitrite	BB	101.1 %
4	2.56	0.141	4.004	Bromide	BB	100.1 %
5	2.82	1.123	4.041	Nitrate	BB	101 %
6	4.27	0.582	8.038	Sulfate	BB	100.5 %

KW
9/16/24

Sample data

Ident	STANDARD 8
Sample type	Standard 8
Determination start	2024-09-12 22:48:22 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92049
Sample Position	8
Comment 1	300.0/9056A
Comment 2	

Anions



Anions

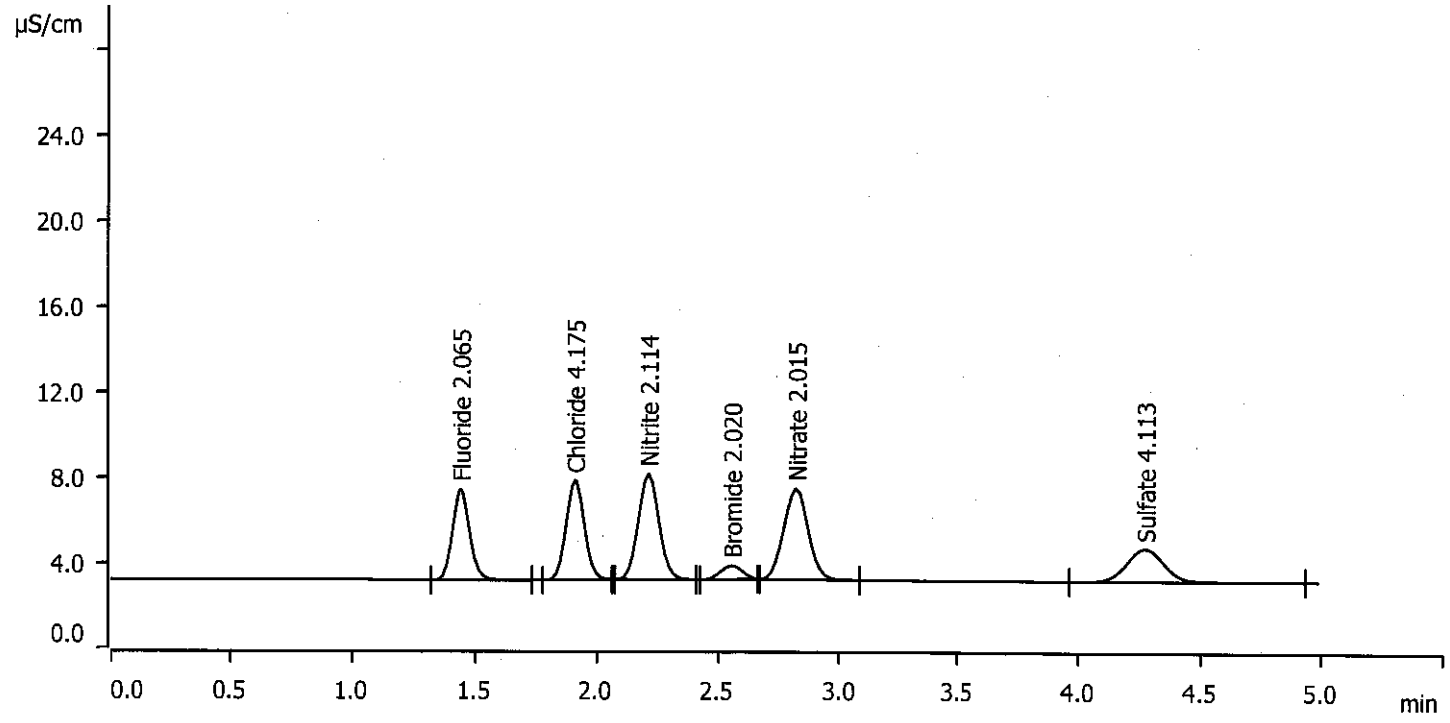
Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type	
1	1.44	0.967	4.957	Fluoride	BB	99.1%
2	1.91	1.144	9.936	Chloride	BB	99.4%
3	2.22	1.330	4.959	Nitrite	BB	99.2%
4	2.56	0.181	5.002	Bromide	BB	100.0%
5	2.82	1.455	4.963	Nitrate	BB	99.3%
6	4.27	0.750	9.984	Sulfate	BB	99.8%

KW
9/16/24

Sample data

Ident	ICV
Sample type	Check standard 1
Determination start	2024-09-12 23:09:53 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92050
Sample Position	9
Comment 1	300.0/9056A
Comment 2	

Anions



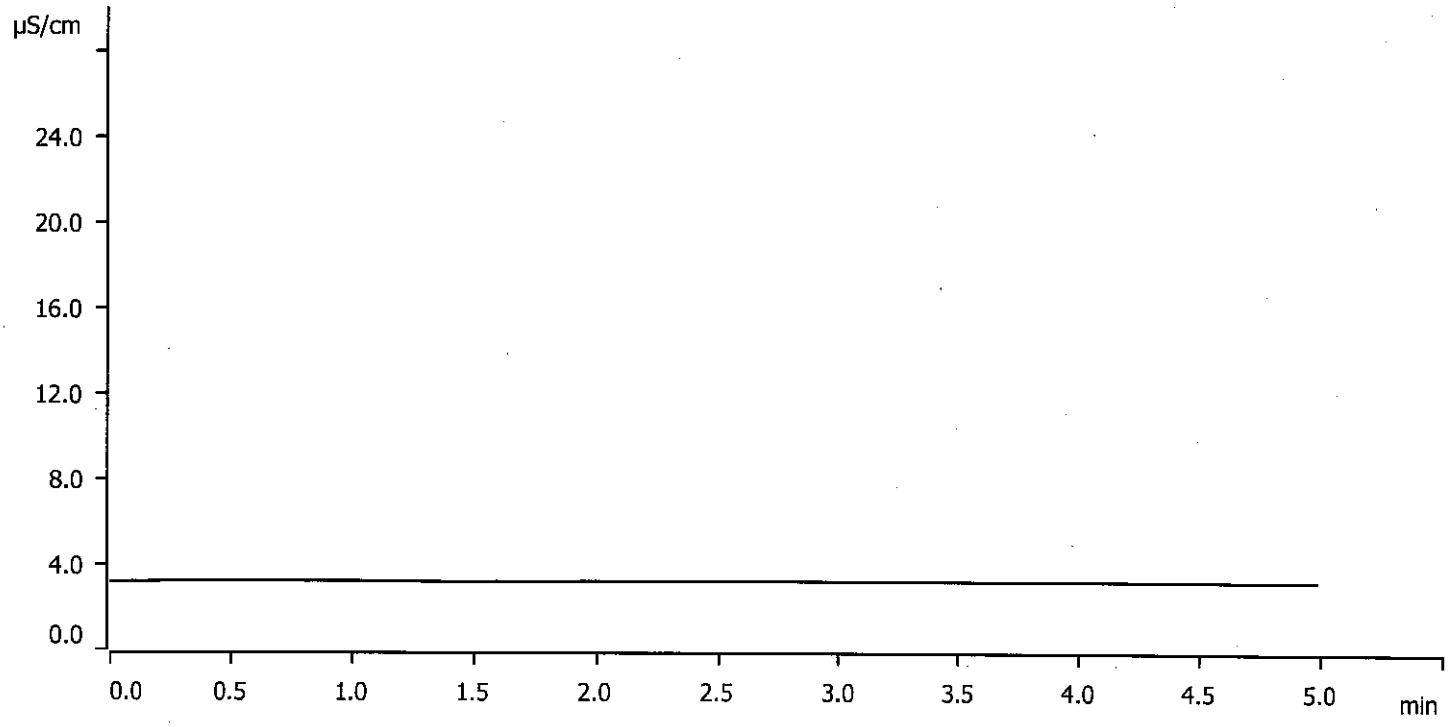
Anions

Peak number	Retention time min	Area (µS/cm) x min	Concentration ppm	Component name	Type
1	1.44	0.347	2.065	Fluoride	BB
2	1.92	0.405	4.175	Chloride	BB
3	2.22	0.490	2.114	Nitrite	BB
4	2.56	0.067	2.020	Bromide	BB
5	2.82	0.491	2.015	Nitrate	BB
6	4.27	0.276	4.113	Sulfate	BB

Sample data

Ident	ICB
Sample type	Sample
Determination start	2024-09-12 23:16:09 UTC-4
Method	10-091224FAST
Dilution	1
Counter	92051
Sample Position	10
Comment 1	300.0/9056A
Comment 2	

Anions



CALIBRATION REPORT

Method 10-091224FAST

Anions

Data source . . . . . Conductivity detector 1 (930 Compact IC Flex 1)
Channel . . . . . Conductivity
Recording time 5.0min
Flow 2.000mL/min

Integration

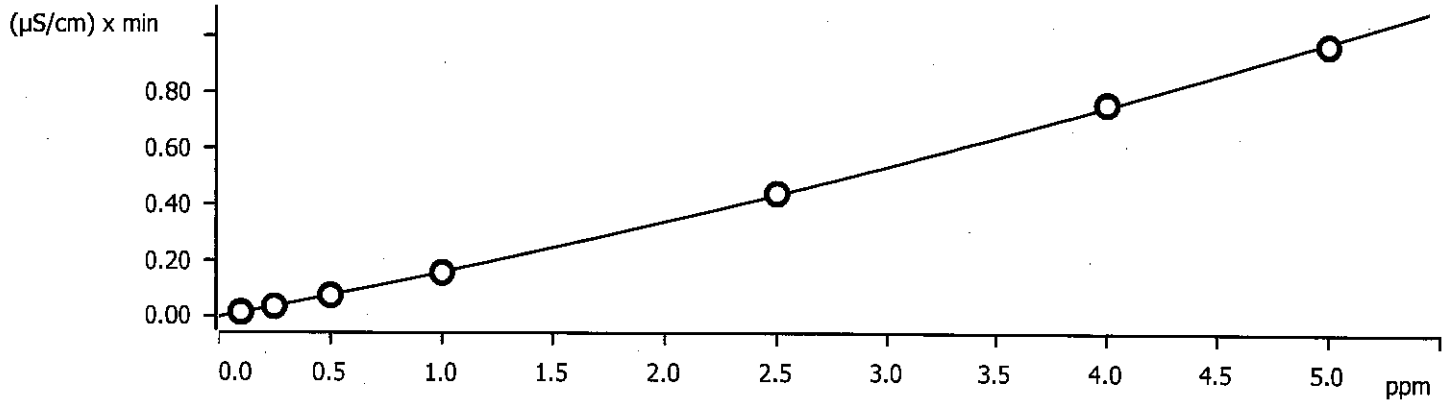
Anions

Sensitivity	40	
Smoothing	30	
Minimum height	0.01	µS/cm
Minimum area	0.001	(µS/cm) x min
Integration start	1.2	min
Polarity	+	
Negative peaks	off	
Drift compensation	off	
Ignore overflow	off	
Subtract blank	off	
Savitzky-Golay	off	
Activate events	off	

Events

Start [min]	End [min]	Event	Parameter
1.25	4.6	Valley-Valley	

Fluoride (Anions)



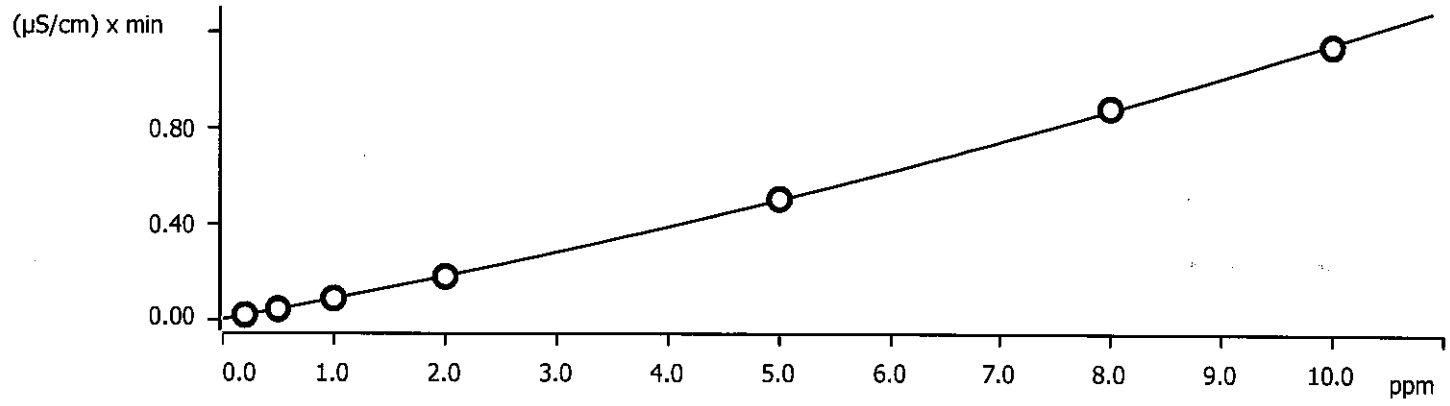
Function: . . . . . $A = - 3.11057E-3 + 7.55731E-3 \times Q + 2.24279E-5 \times Q^2$

Relative standard deviation . . . . . 2.276067 %

Correlation coefficient 0.999858

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2024-09-12 22:04:27 UTC-4	used
Standard 2	1	0.100	20.0	1.0	1.0	0.012916	STANDARD 2	2024-09-12 22:10:43 UTC-4	used
Standard 3	1	0.250	20.0	1.0	1.0	0.033805	STANDARD 3	2024-09-12 22:17:00 UTC-4	used
Standard 4	1	0.500	20.0	1.0	1.0	0.073306	STANDARD 4	2024-09-12 22:23:18 UTC-4	used
Standard 5	1	1.000	20.0	1.0	1.0	0.154328	STANDARD 5	2024-09-12 22:29:34 UTC-4	used
Standard 6	1	2.500	20.0	1.0	1.0	0.436274	STANDARD 6	2024-09-12 22:35:50 UTC-4	used
Standard 7	1	4.000	20.0	1.0	1.0	0.755094	STANDARD 7	2024-09-12 22:42:06 UTC-4	used
Standard 8	1	5.000	20.0	1.0	1.0	0.966555	STANDARD 8	2024-09-12 22:48:22 UTC-4	used

Chloride (Anions)



Function: . . . . . $A = - 1.88478E-3 + 4.23560E-3 \times Q + 7.69280E-6 \times Q^2$

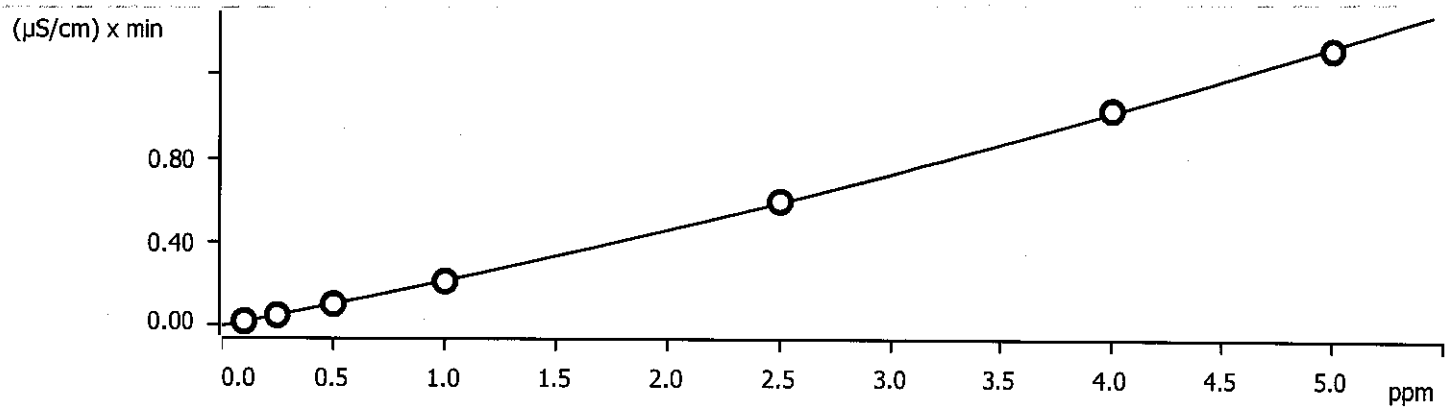
Relative standard deviation . . . . . 1.774609 %

Correlation coefficient 0.999915

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2024-09-12 22:04:27 UTC-4	used
Standard 2	1	0.200	20.0	1.0	1.0	0.015804	STANDARD 2	2024-09-12 22:10:43 UTC-4	used
Standard 3	1	0.500	20.0	1.0	1.0	0.040167	STANDARD 3	2024-09-12 22:17:00 UTC-4	used
Standard 4	1	1.000	20.0	1.0	1.0	0.085264	STANDARD 4	2024-09-12 22:23:18 UTC-4	used
Standard 5	1	2.000	20.0	1.0	1.0	0.177073	STANDARD 5	2024-09-12 22:29:34 UTC-4	used
Standard 6	1	5.000	20.0	1.0	1.0	0.502440	STANDARD 6	2024-09-12 22:35:50 UTC-4	used

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 7	1	8.000	20.0	1.0	1.0	0.882509	STANDARD 7	2024-09-12 22:42:06 UTC-4	used
Standard 8	1	10.000	20.0	1.0	1.0	1.143530	STANDARD 8	2024-09-12 22:48:22 UTC-4	used

Nitrite (Anions)



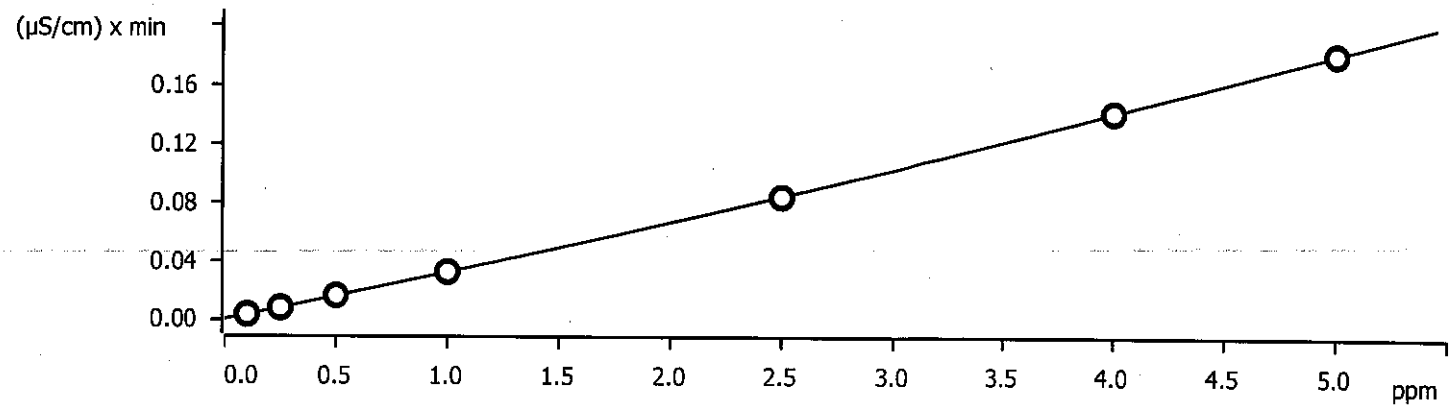
Function: . . . . . *A = - 3.45130E-3 + 0.0103467× Q + 3.12660E-5× Q²*

Relative standard deviation . . . . . *2.166310 %*

Correlation coefficient *0.999871*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2024-09-12 22:04:27 UTC-4	used
Standard 2	1	0.100	20.0	1.0	1.0	0.018380	STANDARD 2	2024-09-12 22:10:43 UTC-4	used
Standard 3	1	0.250	20.0	1.0	1.0	0.047381	STANDARD 3	2024-09-12 22:17:00 UTC-4	used
Standard 4	1	0.500	20.0	1.0	1.0	0.101554	STANDARD 4	2024-09-12 22:23:18 UTC-4	used
Standard 5	1	1.000	20.0	1.0	1.0	0.212147	STANDARD 5	2024-09-12 22:29:34 UTC-4	used
Standard 6	1	2.500	20.0	1.0	1.0	0.598878	STANDARD 6	2024-09-12 22:35:50 UTC-4	used
Standard 7	1	4.000	20.0	1.0	1.0	1.037765	STANDARD 7	2024-09-12 22:42:06 UTC-4	used
Standard 8	1	5.000	20.0	1.0	1.0	1.330378	STANDARD 8	2024-09-12 22:48:22 UTC-4	used

Bromide (Anions)



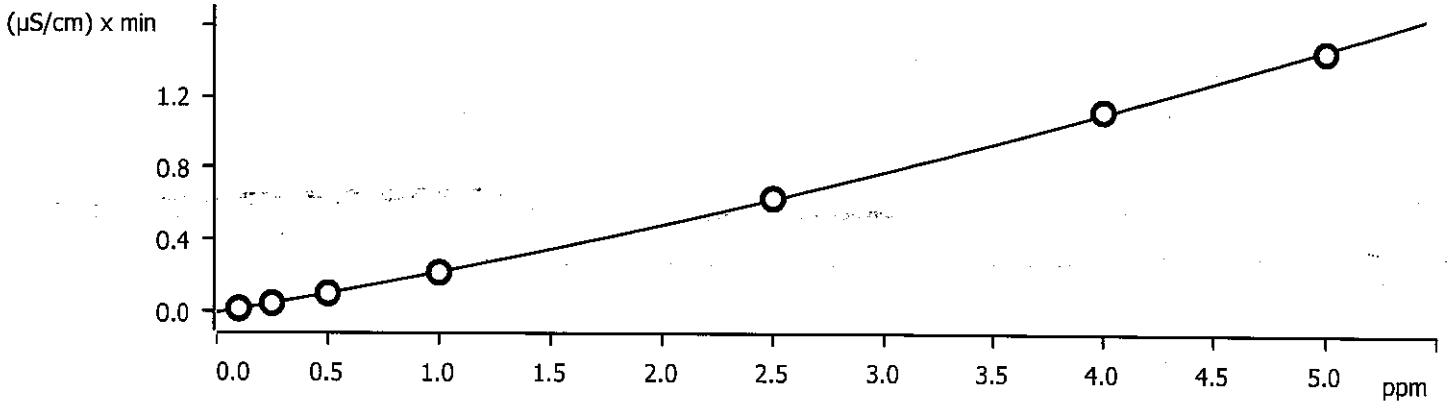
Function: . . . . . *A = - 6.90109E-5 + 1.55983E-3× Q + 2.51034E-6× Q²*

Relative standard deviation . . . . . *0.439064 %*

Correlation coefficient *0.999994*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2024-09-12 22:04:27 UTC-4	used
Standard 2	1	0.100	20.0	1.0	1.0	0.003055	STANDARD 2	2024-09-12 22:10:43 UTC-4	used
Standard 3	1	0.250	20.0	1.0	1.0	0.007695	STANDARD 3	2024-09-12 22:17:00 UTC-4	used
Standard 4	1	0.500	20.0	1.0	1.0	0.016028	STANDARD 4	2024-09-12 22:23:18 UTC-4	used
Standard 5	1	1.000	20.0	1.0	1.0	0.032231	STANDARD 5	2024-09-12 22:29:34 UTC-4	used
Standard 6	1	2.500	20.0	1.0	1.0	0.083721	STANDARD 6	2024-09-12 22:35:50 UTC-4	used
Standard 7	1	4.000	20.0	1.0	1.0	0.140939	STANDARD 7	2024-09-12 22:42:06 UTC-4	used
Standard 8	1	5.000	20.0	1.0	1.0	0.181104	STANDARD 8	2024-09-12 22:48:22 UTC-4	used

Nitrate (Anions)



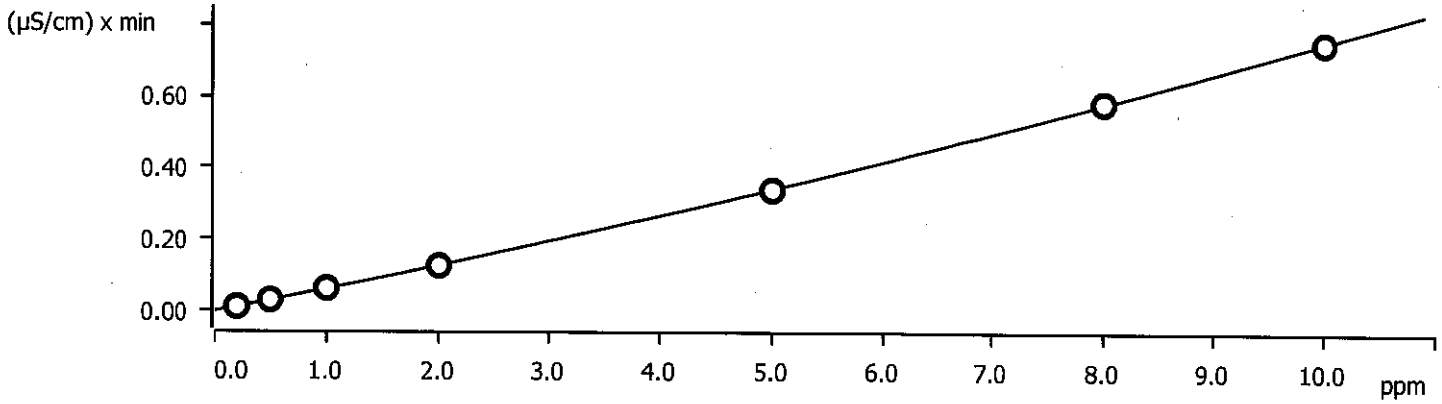
Function: . . . . . *A = - 4.00486E-3 + 0.0106287× Q + 4.10277E-5× Q²*

Relative standard deviation . . . . . *2.041068 %*

Correlation coefficient *0.999889*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2024-09-12 22:04:27 UTC-4	used
Standard 2	1	0.100	20.0	1.0	1.0	0.018425	STANDARD 2	2024-09-12 22:10:43 UTC-4	used
Standard 3	1	0.250	20.0	1.0	1.0	0.048299	STANDARD 3	2024-09-12 22:17:00 UTC-4	used
Standard 4	1	0.500	20.0	1.0	1.0	0.104930	STANDARD 4	2024-09-12 22:23:18 UTC-4	used
Standard 5	1	1.000	20.0	1.0	1.0	0.221766	STANDARD 5	2024-09-12 22:29:34 UTC-4	used
Standard 6	1	2.500	20.0	1.0	1.0	0.635919	STANDARD 6	2024-09-12 22:35:50 UTC-4	used
Standard 7	1	4.000	20.0	1.0	1.0	1.122927	STANDARD 7	2024-09-12 22:42:06 UTC-4	used
Standard 8	1	5.000	20.0	1.0	1.0	1.455252	STANDARD 8	2024-09-12 22:48:22 UTC-4	used

Sulfate (Anions)



Function: . . . . . *A = - 1.65387E-5 + 3.07164E-3× Q + 3.42738E-6× Q²*

Relative standard deviation . . . . . *0.784370 %*

Correlation coefficient *0.999982*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2024-09-12 22:04:27 UTC-4	used
Standard 2	1	0.200	20.0	1.0	1.0	0.012135	STANDARD 2	2024-09-12 22:10:43 UTC-4	used
Standard 3	1	0.500	20.0	1.0	1.0	0.031209	STANDARD 3	2024-09-12 22:17:00 UTC-4	used
Standard 4	1	1.000	20.0	1.0	1.0	0.064064	STANDARD 4	2024-09-12 22:23:18 UTC-4	used
Standard 5	1	2.000	20.0	1.0	1.0	0.127398	STANDARD 5	2024-09-12 22:29:34 UTC-4	used
Standard 6	1	5.000	20.0	1.0	1.0	0.339484	STANDARD 6	2024-09-12 22:35:50 UTC-4	used

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 7	1	8.000	20.0	1.0	1.0	0.582323	STANDARD 7	2024-09-12 22:42:06 UTC-4	used
Standard 8	1	10.000	20.0	1.0	1.0	0.749957	STANDARD 8	2024-09-12 22:48:22 UTC-4	used

Quadratic Check

ALS Environmental

2024-09-16 12:01:11

CALIBRATION REPORT

Method 10-091224FAST

Anions

Data source . . . . . Conductivity detector 1 (930 Compact IC Flex 1)
Channel . . . . . Conductivity
Recording time 5.0min
Flow 2.000mL/min

Integration

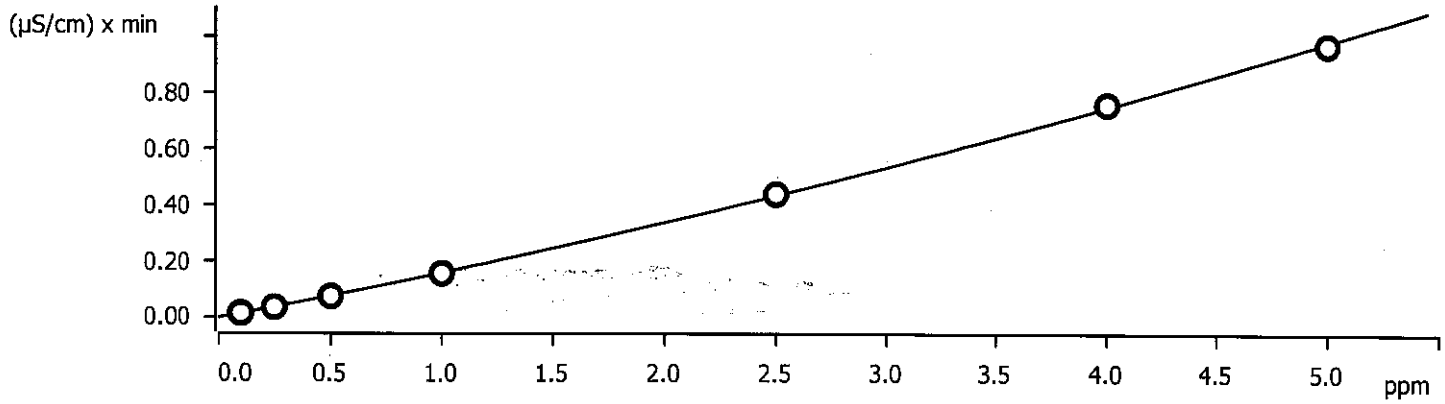
Anions

Sensitivity	40	
Smoothing	30	
Minimum height	0.01	µS/cm
Minimum area	0.001	(µS/cm) x min
Integration start	1.2	min
Polarity	+	
Negative peaks	off	
Drift compensation	off	
Ignore overflow	off	
Subtract blank	off	
Savitzky-Golay	off	
Activate events	off	

Events

Start [min]	End [min]	Event	Parameter
1.25	4.6	Valley-Valley	

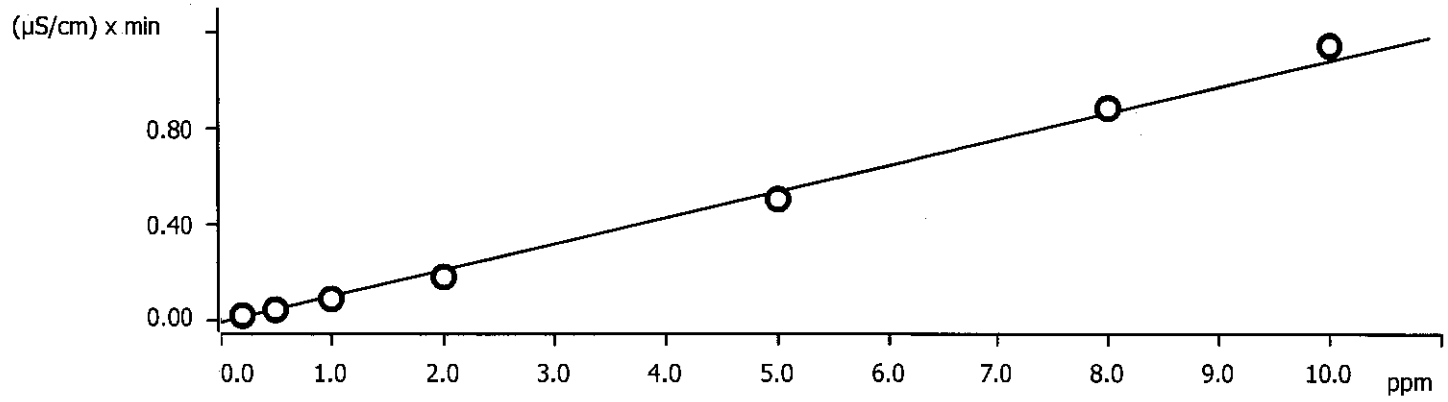
Fluoride (Anions)



Function: . . . . . *A = - 0.0101583 + 9.34011E-3× Q*
Relative standard deviation . . . . . *7.276063 %*
Correlation coefficient *0.998183*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2024-09-12 22:04:27 UTC-4	used
Standard 2	1	0.100	20.0	1.0	1.0	0.012916	STANDARD 2	2024-09-12 22:10:43 UTC-4	used
Standard 3	1	0.250	20.0	1.0	1.0	0.033805	STANDARD 3	2024-09-12 22:17:00 UTC-4	used
Standard 4	1	0.500	20.0	1.0	1.0	0.073306	STANDARD 4	2024-09-12 22:23:18 UTC-4	used
Standard 5	1	1.000	20.0	1.0	1.0	0.154328	STANDARD 5	2024-09-12 22:29:34 UTC-4	used
Standard 6	1	2.500	20.0	1.0	1.0	0.436274	STANDARD 6	2024-09-12 22:35:50 UTC-4	used
Standard 7	1	4.000	20.0	1.0	1.0	0.755094	STANDARD 7	2024-09-12 22:42:06 UTC-4	used
Standard 8	1	5.000	20.0	1.0	1.0	0.966555	STANDARD 8	2024-09-12 22:48:22 UTC-4	used

Chloride (Anions)

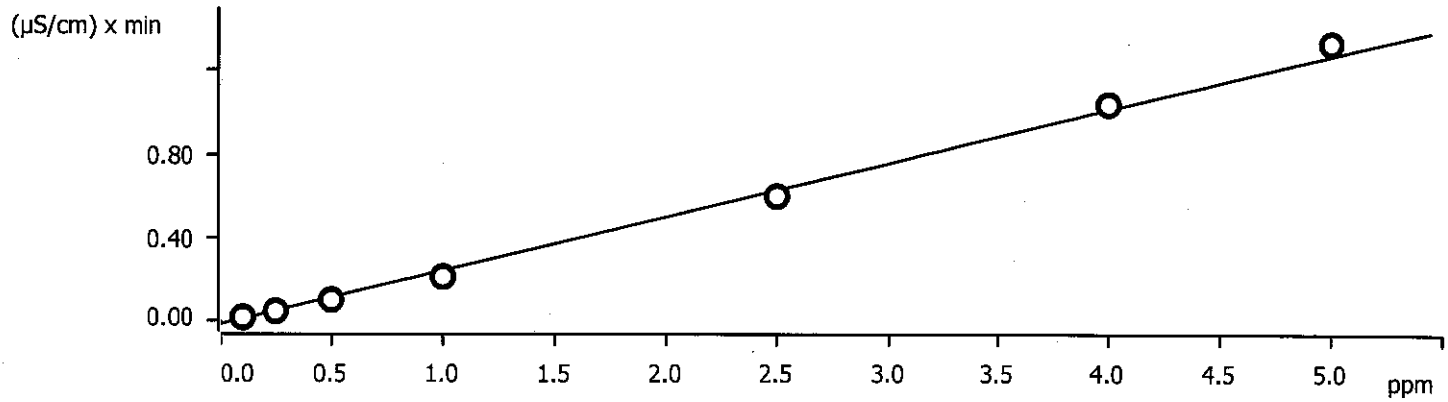


Function: . . . . . *A = - 0.0116988 + 5.45647E-3× Q*
Relative standard deviation . . . . . *8.924022 %*
Correlation coefficient *0.997301*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2024-09-12 22:04:27 UTC-4	used
Standard 2	1	0.200	20.0	1.0	1.0	0.015804	STANDARD 2	2024-09-12 22:10:43 UTC-4	used
Standard 3	1	0.500	20.0	1.0	1.0	0.040167	STANDARD 3	2024-09-12 22:17:00 UTC-4	used
Standard 4	1	1.000	20.0	1.0	1.0	0.085264	STANDARD 4	2024-09-12 22:23:18 UTC-4	used
Standard 5	1	2.000	20.0	1.0	1.0	0.177073	STANDARD 5	2024-09-12 22:29:34 UTC-4	used
Standard 6	1	5.000	20.0	1.0	1.0	0.502440	STANDARD 6	2024-09-12 22:35:50 UTC-4	used

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 7	1	8.000	20.0	1.0	1.0	0.882509	STANDARD 7	2024-09-12 22:42:06 UTC-4	used
Standard 8	1	10.000	20.0	1.0	1.0	1.143530	STANDARD 8	2024-09-12 22:48:22 UTC-4	used

Nitrite (Anions)



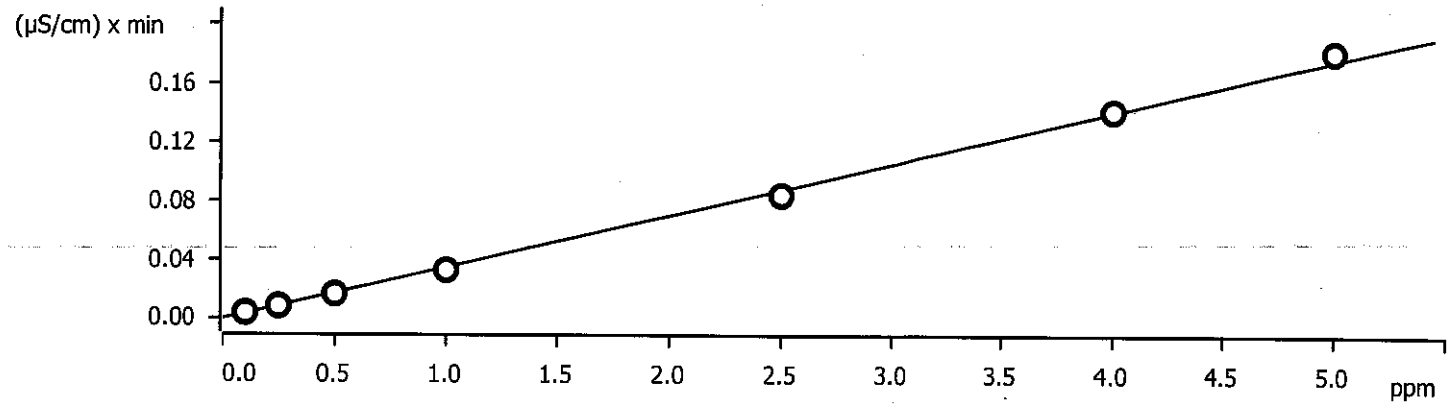
Function: . . . . . *A = - 0.0133776 + 0.0128343× Q*

Relative standard deviation . . . . . *7.426138 %*

Correlation coefficient *0.998104*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STANDARD 1	2024-09-12 22:04:27 UTC-4	used
Standard 2	1	0.100	20.0	1.0	1.0	0.018380	STANDARD 2	2024-09-12 22:10:43 UTC-4	used
Standard 3	1	0.250	20.0	1.0	1.0	0.047381	STANDARD 3	2024-09-12 22:17:00 UTC-4	used
Standard 4	1	0.500	20.0	1.0	1.0	0.101554	STANDARD 4	2024-09-12 22:23:18 UTC-4	used
Standard 5	1	1.000	20.0	1.0	1.0	0.212147	STANDARD 5	2024-09-12 22:29:34 UTC-4	used
Standard 6	1	2.500	20.0	1.0	1.0	0.598878	STANDARD 6	2024-09-12 22:35:50 UTC-4	used
Standard 7	1	4.000	20.0	1.0	1.0	1.037765	STANDARD 7	2024-09-12 22:42:06 UTC-4	used
Standard 8	1	5.000	20.0	1.0	1.0	1.330378	STANDARD 8	2024-09-12 22:48:22 UTC-4	used

Bromide (Anions)



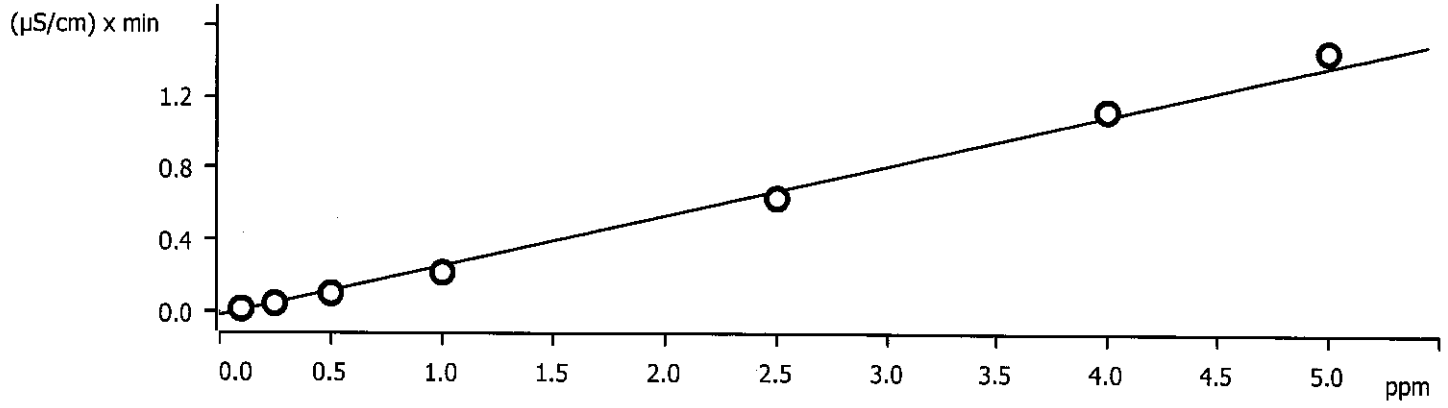
Function: . . . . . *A = - 8.98623E-4 + 1.76215E-3× Q*

Relative standard deviation . . . . . *4.837614 %*

Correlation coefficient *0.999145*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	✓ STANDARD 1	2024-09-12 22:04:27 UTC-4	used
Standard 2	1	0.100	20.0	1.0	1.0	0.003055	✓STANDARD 2	2024-09-12 22:10:43 UTC-4	used
Standard 3	1	0.250	20.0	1.0	1.0	0.007695	✓STANDARD 3	2024-09-12 22:17:00 UTC-4	used
Standard 4	1	0.500	20.0	1.0	1.0	0.016028	✓STANDARD 4	2024-09-12 22:23:18 UTC-4	used
Standard 5	1	1.000	20.0	1.0	1.0	0.032231	✓STANDARD 5	2024-09-12 22:29:34 UTC-4	used
Standard 6	1	2.500	20.0	1.0	1.0	0.083721	✓STANDARD 6	2024-09-12 22:35:50 UTC-4	used
Standard 7	1	4.000	20.0	1.0	1.0	0.140939	✓STANDARD 7	2024-09-12 22:42:06 UTC-4	used
Standard 8	1	5.000	20.0	1.0	1.0	0.181104	✓STANDARD 8	2024-09-12 22:48:22 UTC-4	used

Nitrate (Anions)



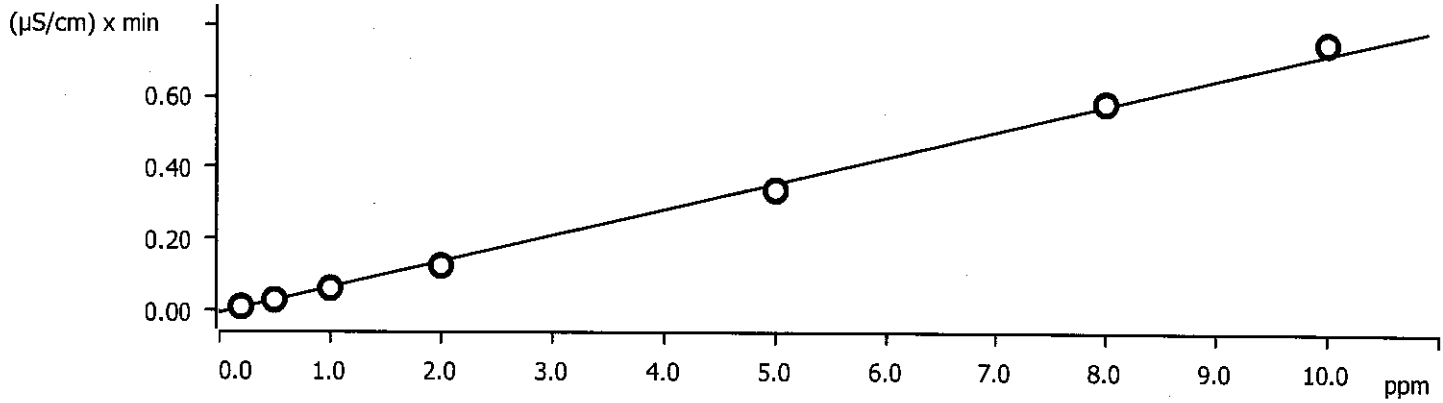
Function: . . . . . *A = - 0.0167813 + 0.0138713× Q*

Relative standard deviation . . . . . *9.367782 %*

Correlation coefficient *0.997063*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	✓ STANDARD 1	2024-09-12 22:04:27 UTC-4	used
Standard 2	1	0.100	20.0	1.0	1.0	0.018425	✓ STANDARD 2	2024-09-12 22:10:43 UTC-4	used
Standard 3	1	0.250	20.0	1.0	1.0	0.048299	✓ STANDARD 3	2024-09-12 22:17:00 UTC-4	used
Standard 4	1	0.500	20.0	1.0	1.0	0.104930	✓ STANDARD 4	2024-09-12 22:23:18 UTC-4	used
Standard 5	1	1.000	20.0	1.0	1.0	0.221766	✓ STANDARD 5	2024-09-12 22:29:34 UTC-4	used
Standard 6	1	2.500	20.0	1.0	1.0	0.635919	✓ STANDARD 6	2024-09-12 22:35:50 UTC-4	used
Standard 7	1	4.000	20.0	1.0	1.0	1.122927	✓ STANDARD 7	2024-09-12 22:42:06 UTC-4	used
Standard 8	1	5.000	20.0	1.0	1.0	1.455252	✓ STANDARD 8	2024-09-12 22:48:22 UTC-4	used

Sulfate (Anions)



Function: . . . . . *A = - 4.51492E-3 + 3.62164E-3× Q*

Relative standard deviation . . . . . *6.317979 %*

Correlation coefficient *0.998572*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	✓ STANDARD 1	2024-09-12 22:04:27 UTC-4	used
Standard 2	1	0.200	20.0	1.0	1.0	0.012135	✓ STANDARD 2	2024-09-12 22:10:43 UTC-4	used
Standard 3	1	0.500	20.0	1.0	1.0	0.031209	✓ STANDARD 3	2024-09-12 22:17:00 UTC-4	used
Standard 4	1	1.000	20.0	1.0	1.0	0.064064	✓ STANDARD 4	2024-09-12 22:23:18 UTC-4	used
Standard 5	1	2.000	20.0	1.0	1.0	0.127398	✓ STANDARD 5	2024-09-12 22:29:34 UTC-4	used
Standard 6	1	5.000	20.0	1.0	1.0	0.339484	✓ STANDARD 6	2024-09-12 22:35:50 UTC-4	used

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 7	1	8.000	20.0	1.0	1.0	0.582323	STANDARD 7	2024-09-12 22:42:06 UTC-4	used
Standard 8	1	10.000	20.0	1.0	1.0	0.749957	STANDARD 8	2024-09-12 22:48:22 UTC-4	used

ALS Environmental

1575 Jefferson Road, Building 300, Suite 360, Rochester, New York 14623

Ion Chromatography Cover Sheet

Instrument: **Metrohm IC 930 (IC#10)**

Column: **Dionex IonPac AS22-Fast (Installed 07/25/2024)**

Curve Date: **09/12/24** **Loop size: 25 uL Loop**

Analyst: KW **Analysis Date:** 9/12/24

Balance ID for Soil Preparation: NA

Is copy of LCS attached to run? (YES) / NO

Method Filename: 10-091224FAST

Standards Prep Dates & Log ID's:

Std Type	*Prep Date*	*Log ID*		*Std Type*	*Prep Date*	*Log ID*
Calibration Intermediate	08/09/2024	236789		Working Calibration Stds	09/12/2024	WC236014B
LCS / MS Intermediate	08/09/2024	236789		Working LCS/MS Standard	09/12/2024	WC236098I
ICV Intermediate	08/09/2024	236787		Working ICV Standard	09/12/2024	WC236040I
CCV Intermediate	08/09/2024	236787		Working CCV Standard	09/12/2024	WC236040I

Original Retention Times for this method are based on Standard 6 and are as follows:

Fluoride: 1.44	Bromide: 2.56
Chloride: 1.91	Nitrate: 2.82
Nitrite: 2.22	Sulfate: 4.27

Additional Comments: Column Serial Number: 240212573
Linear Range Verification (High Standard) Analyzed: 03/09/2024 – Due Every Six Months

Pipets: Chrome, Bottom
Disposable Pipet ID: (Fisher) 26023005

Eluent Stock (100x): 235121
Suppressor Stock (5x): 235047

CALIBRATION INTERMEDIATE STOCK PREP
(Used for Calibration and LCS and MS)

Analyte	Standard Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst	Date Prepped	Lot ID	Exp. Date
F	228501 exp 9/30/24	1000	10	200	50	KW	3/20/24	A	9/30/24 234182
Cl	231553 exp: 3/31/25	1000	20		100	KW	4/23/24	B	9/30/24 234759
NO2	234066 exp: 3/31/25	1000	10		50	KW	7/25/24	C	9/30/24 236469
Br	228428 exp: 9/30/24	1000	10		50	KW	8/9/24	D	9/30/24 236789
NO3	232424 exp 4/30/24	1000	10		50			E	
OPO4	———	1000	10		50			F	
SO4	231552 3/31/25	1000	20		100			G	

ICV / CCV INTERMEDIATE STOCK PREP

Analyte	ICV/CCV Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst	Date Prepped	Lot ID	Exp. Date
F	229086 (Exp 12/31/25)	1000	4.0	1000	4.00	KW	8/9/24	H	10/31/25 236787
Cl	234592 (Exp 10/31/25)	1000	8.0		8.00			I	
NO2	236575 (Exp 6/13/27)	1000	4.0		4.00			J	
Br	229090 (Exp 9/30/26)	1000	4.0		4.00			K	
NO3	229092 (Exp 3/31/27)	1000	4.0		4.00			L	
OPO4	———	1000	4.0		4.00			M	
SO4	234593 (Exp 10/31/25)	1000	8.0		8.00			N	

ICV / CCV PREP

(A 1:1 dilution of the Reference Intermediate Stock is done daily.)

Analyte	ICV / CCV Intermediate Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst / Date Prepped	Lot ID	Exp. Date	Matrix H_2SO_4 / NaOH / DI	H_2SO_4 / NaOH Lot #
F	236787	4.00	5.0	10.0	2.00	KW 9/3/24	A	9/4/24	DI	—
Cl		8.00			4.00	KW 9/4/24	B	9/5/24	DI	—
NO_2		4.00			2.00	KW 9/5/24	C	9/6/24	DI	—
Br		4.00			2.00	KW 9/6/24	D	9/7/24	DI	—
NO_3		4.00			2.00	KW 9/7/24	E	9/8/24	DI	—
OPO_4		4.00			2.00	KW 9/9/24	F	9/10/24	DI	—
SO_4		8.00			4.00	KW 9/10/24	G	9/11/24	DI	—
						KW 9/11/24	H	9/12/24	DI	—
						KW 9/12/24	I	9/13/24	DI	—
							J			
							K			
							L			
							M			
							N			
							O			
							P			
							Q			
							R			

LCS Prep

(Stocks delivered using volumetric glassware and brought to volume with DI. LCS expires after 7 days; if NO_2 is needed, LCS must be prepared daily.)

(MS prepared fresh daily using same volume of intermediate stock added to 100mLs sample. MS not prepared volumetrically.)

Analyte	Calibration Intermediate Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst / Date Prepped	Lot ID	Exp. Date	Matrix H_2SO_4 / NaOH / DI	H_2SO_4 / NaOH Lot #
F	236789	50	2.0	200	1.0	KW 9/3/24	A	9/10/24	DI	—
Cl		100			2.0	KW 9/4/24	B	9/11/24	DI	—
NO_2		50			1.0	KW 9/5/24	C	9/12/24	DI	—
Br		50			1.0	KW 9/6/24	D	9/13/24	DI	—
NO_3		50			1.0	KW 9/7/24	E	9/14/24	DI	—
OPO_4		50			1.0	KW 9/9/24	F	9/16/24	DI	—
SO_4		100			2.0	KW 9/10/24	G	9/17/24	DI	—
							H			
							I			
							J			
							K			
							L			
							M			
							N			
							O			
							P			
							Q			
							R			

CALIBRATION STANDARDS PREP

(Stocks delivered using volumetric glassware and brought to volume with DI Water. Expire after 7 days.)

Std #	mLs Intermediate Stock	Final Vol. mLs	Final Std. Conc. (mg/L)						
			F	Cl	NO_2	Br	NO_3	OPO_4	SO_4
8	10.0	100	5.0	10.0	5.0	5.0	5.0	5.0	10.0
7	8.0	100	4.0	8.0	4.0	4.0	4.0	4.0	8.0
6	5.0	100	2.5	5.0	2.5	2.5	2.5	2.5	5.0
5	2.0	100	1.0	2.0	1.0	1.0	1.0	1.0	2.0
4	1.0	100	0.5	1.0	0.5	0.5	0.5	0.5	1.0
3	0.5	100	0.25	0.50	0.25	0.25	0.25	0.25	0.50
2	0.2	100	0.10	0.20	0.10	0.10	0.10	0.10	0.20
1	0.0	100	0.0	0.00	0.0	0.0	0.0	0.0	0.00

Calibration Intermediate Stock ID	Analyst / Date Prepped	Lot ID	Exp. Date	Matrix H_2SO_4/NaOH/DI	H_2SO_4 / NaOH Lot #
236789	KMD 8/22/24	A	8/25/24	DI	—
236789	KL 9/12/24	B	9/17/24	DI	—
		C			
		D			
		E			
		F			
		G			
		H			
		I			
		J			
		K			
		L			
		M			
		N			
		O			
		P			
		Q			

ATTACHMENT B
FIELD DOCUMENTATION

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0050**	**Date: 8/20/2024**	Civil & Environmental Consultants of New York, Inc., Inc.
Personnel: LJR	**Well #: RU-9 (OLN-RU009-F009)**	**Static Water Level: 7.86 FT TOC**	
Depth to Top of Screen: NA	**Well Diameter (in.): 0.5**	**Total Well Depth: 17 FT TOC**	**Purge Method: Pump**
Time of Purge Initiation: 13:51			
☐ dedicated	**Date/Time of Pump Installation: 8/20/2024 13:50**	**Pump Type: Peristaltic**	**Pump Depth: ~12 FT TOC**
Water Level after Pump Installation: NM			

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (g/L)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
13:52	160	5.41	306	3.87	691	18.10	NA	5.2	NA	NA	NA
13:57	120	5.81	300	4.36	679	18.04	NA	4.6	NA	NA	NA
14:02	120	5.86	299	4.24	678	18.04	NA	3.2	NA	NA	NA
14:07	120	5.87	300	4.21	683	18.06	NA	2.2	NA	NA	NA
14:12	120	5.87	300	4.18	686	18.07	NA	1.7	NA	NA	NA

Other Field Measurements:
P Alk: 0.0 ppm
T Alk: 80 ppm
Fe: 0.02 mg/L

Notes:
NA: Not Analyzed

Deviations from SAP:
Unable to gauge water level during purging due to small well diameter.

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 8/20/2024	Time: 14:17	Water Level: NM	pH (S.U.): 5.89	ORP (mV): 301	Diss. Oxygen (ppm): 4.23	Spec. Cond (µS/cm): 688
Temperature: 18.07 °C	TDS (g/L): NM	Turbidity (NTU): 1.5	Color/Appearance: NA	Odor: None		Final Volume Removed: 1.5 Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0050**	**Date: 8/20/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel: LJR	**Well #: RU-11 (OLN-RU011-F009)**	**Static Water Level: 7.50 FT TOC**	

Depth to Top of Screen: NA	**Well Diameter (in.): 0.5**	**Total Well Depth: 19 FT TOC**	**Purge Method: Pump**	**Time of Purge Initiation: 17:32**
☐ dedicated	**Date/Time of Pump Installation: 8/21/2024 13:03**	**Pump Type: Peristaltic**	**Pump Depth: ~14 FT TOC**	**Water Level after Pump Installation: NA**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (g/L)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
17:35	120	6.77	-26	1.07	519	14.87	NA	107	NA	NA	NA
17:40	120	6.79	-25	1.00	505	14.92	NA	104	NA	NA	NA
17:45	120	6.81	-24	1.00	503	14.94	NA	87.8	NA	NA	NA
17:50	120	6.87	-20	0.19	514	14.98	NA	51.1	NA	NA	NA
17:55	120	6.89	-15	0.09	518	14.99	NA	33.3	NA	NA	NA
18:00	120	6.91	-14	0.12	522	15.01	NA	29.9	NA	NA	NA
18:05	120	6.93	-12	0.13	524	15.02	NA	27.1	NA	NA	NA

Other Field Measurements:
P Alk: 0.0 ppm
T Alk: 260 ppm
Fe: 0.75 mg/L

Notes:
NA: Not Analyzed

Deviations from SAP:
Unable to gauge water level during purging due to small diamter of well.
Turbidity did not stabilize within 10%.

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 8/20/2024	Time:18:08	Water Level: NM	pH (S.U.): 6.94	ORP (mV): -14	Diss. Oxygen (ppm): 0.12	Spec. Cond (µS/cm): 525
Temperature: 15.02 °C	TDS (g/L): NA	Turbidity (NTU): 25.0	Color/Appearance: NA	Odor: None		Final Volume Removed: 1 Gallon

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0050**	**Date: 8/20/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel: LJR	**Well #: RU-16 (OLN-RU016-F009)**	**Static Water Level: 8.24 FT TOC**	

Depth to Top of Screen: NA	**Well Diameter (in.): 0.5**	**Total Well Depth: 18 FT TOC**	**Purge Method: Pump**	**Time of Purge Initiation: 15:37**
☐ dedicated	**Date/Time of Pump Installation: 8/20/2024 15:35**	**Pump Type: Peristaltic**	**Pump Depth: ~13 FT TOC**	**Water Level after Pump Installation: 8.20 FT TOC**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (g/L)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
15:42	120	6.00	182	1.52	270	17.52	NA	12.4	Yellow-ish Color	8.61	0.41
15:47	120	6.03	181	0.32	265	17.56	NA	11.3	Yellow-ish Color	8.65	0.04
15:52	120	6.05	180	0.10	264	17.43	NA	11.0	Yellow-ish Color	8.65	0.00
15:57	120	6.05	178	0.03	265	17.21	NA	10.1	Yellow-ish Color	8.65	0.00
16:02	120	6.08	176	0.01	266	16.88	NA	10.0	Yellow-ish Color	8.65	0.00

Other Field Measurements:
P Alk: 0.0 ppm
T Alk: 140 ppm
Fe: 0.84 mg/L

Notes:
NA: Not Analyzed

DUP 1 Collected at 20:00
OLN-FD001-F009

Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 8/20/2024	Time:16:05	Water Level:8.65 FT TOC	pH (S.U.): 6.05	ORP (mV): 175	Diss. Oxygen (ppm):0.00	Spec. Cond (µS/cm): 267
Temperature: 16.88 °C	TDS (g/L): NA	Turbidity (NTU): 9.9	Color/Appearance: Yellow-ish color	Odor: None		Final Volume Removed: 1.5 Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0050**	**Date: 8/20/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel: BDT	**Well #: UA-2 (OLN-UA002-F009)**	**Static Water Level: 8.61 FT TOC**	

Depth to Top of Screen: NA	**Well Diameter (in.): 2**	**Total Well Depth: 18.92 FT TOC**	**Purge Method: Pump**	**Time of Purge Initiation: 14:45**
☐ dedicated	**Date/Time of Pump Installation: 8/20/2024 14:42**	**Pump Type: Bladder**	**Pump Depth: ~17 FT TOC**	**Water Level after Pump Installation: 8.63**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (g/L)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
14:50	100	6.17	-27	9.74	213	14.79	0.139	52.7	NA	8.65	0.02
14:55	100	6.01	-25	9.06	224	13.78	0.145	34.8	NA	8.65	0.00
15:00	100	5.96	-34	8.62	233	13.32	0.152	23.9	NA	8.65	0.00
15:05	100	5.95	-75	8.22	239	13.39	0.155	20.7	NA	8.65	0.00
15:10	100	5.94	-121	8.07	244	13.44	0.158	15.9	NA	8.65	0.00
15:15	100	5.92	-97	7.85	250	13.44	0.163	16.0	NA	8.65	0.00
15:20	100	5.94	-103	7.69	256	13.34	0.166	15.8	NA	8.65	0.00

Other Field Measurements:
P Alk: 0.0 ppm
T Alk: 56 ppm
Fe: 1.32 mg/L

Notes:
NA: Not Analyzed

Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 8/20/2024	Time:15:25	Water Level: 8.65 FT TOC	pH (S.U.): 5.97	ORP (mV): -110	Diss. Oxygen (ppm): 7.50	Spec. Cond (µS/cm): 260
Temperature: 13.34 °C	TDS (g/L): 0.169	Turbidity (NTU): 15.3	Color/Appearance: NA	Odor: None		Final Volume Removed: 1.0 Gallon

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0050**	**Date: 8/20/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel: BDT	**Well #:UA-3 (OLN-UA003-F009)**	**Static Water Level: 7.03 FT TOC**	

Depth to Top of Screen: NA	**Well Diameter (in.): 2**	**Total Well Depth: 19.40 FT TOC**	**Purge Method: Pump**	**Time of Purge Initiation: 12:56**
☐ dedicated	**Date/Time of Pump Installation: 8/20/2024 12:47**	**Pump Type: Bladder**	**Pump Depth: ~18 FT TOC**	**Water Level after Pump Installation: 7.22 FT TOC**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (g/L)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
13:02	100	5.72	87	0.02	295	14.75	0.176	341	NA	8.22	1.00
13:07	100	5.99	32	0.02	245	14.45	0.159	238	NA	8.41	0.19
13:12	100	6.00	27	0.02	249	14.16	0.161	200	NA	8.70	0.29
13:17	100	5.94	32	0.02	234	14.38	0.152	152	NA	9.00	0.30
13:22	100	5.94	35	0.03	223	14.41	0.145	116	NA	9.37	0.37
13:27	100	5.93	39	0.03	218	14.30	0.142	84.5	NA	9.75	0.38
13:32	100	5.92	41	0.03	216	14.27	0.141	88.7	NA	10.00	0.25

Other Field Measurements:
P Alk: 0.0 ppm
T Alk: 80 ppm
Fe: 1.03 mg/L

Notes:
NA: Not Analyzed

Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 8/20/2024	Time: 13:37	Water Level: 10.50 FT TOC	pH (S.U.): 6.01	ORP (mV): 39	Diss. Oxygen (ppm): 0.03	Spec. Cond (µS/cm): 214
Temperature: 14.27 °C	TDS (g/L): 0.139	Turbidity (NTU): 82.3	Color/Appearance: NA	Odor: None		Final Volume Removed: 1.0 Gallon

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3		**Project No.: 300-082.0050**		**Date: 8/21/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel: BDT		**Well #: CW-13 (OLN-CW013-F009)**		**Static Water Level: 14.26 FT TOC**	
Depth to Top of Screen: NA	**Well Diameter (in.): 2**	**Total Well Depth: 82.77 FT TOC**	**Purge Method: Pump**		**Time of Purge Initiation: 9:11**
☐ dedicated	**Date/Time of Pump Installation: 8/21/2024 9:08**	**Pump Type: Bladder**	**Pump Depth: ~80 FT TOC**		**Water Level after Pump Installation: 14.38 FT TOC**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (g/L)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
9:16	125	6.76	-110	1.56	1380	12.59	0.890	10.8	NA	14.38	0
9:21	125	6.81	-111	8.41	1420	12.50	0.912	4.1	NA	14.38	0
9:26	125	6.77	-110	7.61	1430	12.24	0.914	2.7	NA	14.38	0
9:31	125	6.76	-110	7.30	1430	12.28	0.914	2.4	NA	14.38	0
9:36	125	6.76	-110	7.04	1420	12.33	0.912	2.9	NA	14.38	0

Other Field Measurements:
P Alk: 0.0ppm
T Alk: 196 ppm
Fe: 2.60 mg/L

Notes:
Collected EB-01 at 10:15
OLN-EB001-E009

NA: Not Analyzed

Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 8/21/2024	Time: 9:41	Water Level: 14.38 FT TOC	pH (S.U.): 6.76	ORP (mV): -111	Diss. Oxygen (ppm): 6.73	Spec. Cond (µS/cm): 1420
Temperature: 12.33 °C	TDS (g/L): 0.913	Turbidity (NTU): 2.7	Color/Appearance: NA	Odor: None		Final Volume Removed: 1.5 Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0050**	**Date: 08/21/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel: EAM and BDT	**Well #: CW-13A (OLN-CW13A-F009)**	**Static Water Level: 6.93FT TOC**	
Depth to Top of Screen: NA	**Well Diameter (in.): 2**	**Total Well Depth: 34.04 FT TOC**	**Purge Method: Pump**
Time of Purge Initiation: 7:58			
☐ dedicated	**Date/Time of Pump Installation: 8/21/2024 7:50**	**Pump Type: Bladder**	**Pump Depth: ~33 FT TOC**
Water Level after Pump Installation: 6.95			

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (g/L)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
8:02	100	5.77	110	0.30	701	11.55	0.441	258	NA	7.42	0.47
8:07	100	6.27	32	7.84	636	11.49	0.406	114	NA	7.61	0.19
8:12	100	6.30	19	7.50	628	11.49	0.402	67.8	NA	7.73	0.12
8:17	100	6.33	13	7.40	626	11.46	0.401	52.8	NA	7.84	0.11
8:22	100	6.30	13	7.16	627	11.50	0.401	43.0	NA	7.93	0.09
8:27	100	6.30	13	7.14	626	11.50	0.400	37.4	NA	7.93	0
8:30	100	6.27	14	7.06	621	11.52	0.398	37.6	NA	7.93	0

Other Field Measurements:
P Alk.=0 ppm
T Alk.= 122 ppm
Fe: 1.72 mg/L

Notes:
NA: Not Analyzed

Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 8/21/2024	Time: 8:33	Water Level: 7.93FT TOC	pH (S.U.): 6.30	ORP (mV): 13	Diss. Oxygen (ppm): 7.00	Spec. Cond (µS/cm): 621
Temperature: 11.52 °C	TDS (g/L): 0.398	Turbidity (NTU): 36.9	Color/Appearance: NA	Odor: None		Final Volume Removed: 1.0 Gallon

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3				**Project No.: 300-082.0050**			**Date: 8/21/2024**				Civil & Environmental Consultants of New York, Inc.
Personnel: BDT				**Well #: RU-8 (OLN-RU008-F009)**			**Static Water Level: 7.37 FT TOC**				
Depth to Top of Screen: NA			**Well Diameter (in.): 0.5**			**Total Well Depth: 24 FT TOC**		**Purge Method: Pump**			**Time of Purge Initiation: 12:13**
☐ dedicated		**Date/Time of Pump Installation: 8/21/2024 12:13**			**Pump Type: Peristaltic**			**Pump Depth: ~ 20 FT TOC**			**Water Level after Pump Installation: NM**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (g/L)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)	Other Field Measurements: P Alk: 0.0 ppm T Alk: 340 ppm Fe: 0.07 mg/L
12:28	120	6.04	153	1.22	332	16.44	NA	752	NA	NA	NA	
12:33	120	5.87	109	1.06	222	16.59	NA	318	NA	NA	NA	
12:38	120	5.93	137	0.07	205	16.60	NA	135	NA	NA	NA	Notes: Collected MS/MSD: OLN-MS001-M009
12:43	120	5.97	139	0.08	202	16.56	NA	87.4	NA	NA	NA	NA: Not Analyzed
12:48	120	6.00	143	0.04	202	16.54	NA	79.0	NA	NA	NA	
12:53	120	6.04	140	0	198	16.44	NA	71.0	NA	NA	NA	
												Deviations from SAP: Unable to gauge while purging due to small well diameter.

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 8/21/2024	Time: 12:55	Water Level: NM	pH (S.U.): 6.02	ORP (mV): 139	Diss. Oxygen (ppm): 0	Spec. Cond (µS/cm): 201
Temperature: 16.44 °C	TDS (g/L): NM	Turbidity (NTU): 66.3	Color/Appearance: NA	Odor: None		Final Volume Removed: 2.5 Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0050**	**Date: 8/21/2024**
Personnel: LJR	**Well #: RU-10 (OLN-RU010-F009)**	**Static Water Level: 9.45 FT TOC**

Civil & Environmental Consultants of New York, Inc.

Depth to Top of Screen: NA	**Well Diameter (in.): 0.5**	**Total Well Depth: 16.22 FT TOC**	**Purge Method: Pump**	**Time of Purge Initiation: 9:50**
☐ dedicated	**Date/Time of Pump Installation: 8/21/2024 9:22**	**Pump Type: Peristaltic**	**Pump Depth: ~11 FT TOC**	**Water Level after Pump Installation: NA**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (ppm)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
9:58	40	6.42	-119	10.39	927	10.40	NA	412	NA	NA	NA
10:02	75	6.60	-110	10.52	969	14.29	NA	271	NA	NA	NA
10:08	75	6.60	-105	10.13	896	14.49	NA	247	NA	NA	NA
10:12	75	6.61	-101	10.04	926	14.78	NA	194	NA	NA	NA
10:18	75	6.60	-94	10.11	921	15.23	NA	176	NA	NA	NA
10:22	75	6.60	-92	10.05	939	15.38	NA	168	NA	NA	NA
10:28	75	6.60	-91	10.02	928	15.53	NA	171	NA	NA	NA

Other Field Measurements:
P Alk: 0.0 ppm
T Alk: 280 ppm
Fe: 0.62 mg/L

Notes:
NA: Not Analyzed

Remediation Amendment at top of water column. (About 2 oz.)

Sample taken for Sulfur: OLN-OU3AMEND-SC006

Soft bottom from 12-16.22 FT bgs, pump tubing wouldn't pass 12 FT. Initially, grey-like material was getting stuck in the tubing.

Deviations from SAP:
Unable to gauge water level during sampling due to small well diameter.

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 8/21/2024	Time: 10:30	Water Level: NA	pH (S.U.): 6.60	ORP (mV): -92	Diss. Oxygen (ppm): 10.01	Spec. Cond (µS/cm): 938
Temperature: 15.53 °C	TDS (g/L): NA	Turbidity (NTU): 173	Color/Appearance: Oily Amendment Appearance	Odor: Oily Amendment Smell		Final Volume Removed: 1 Gallon

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0050**	**Date: 8/21/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel: LJR	**Well #: RU-15 (OLN-RU015-F009)**	**Static Water Level: 7.92 FT TOC**	
Depth to Top of Screen: NA	**Well Diameter (in.): 0.5**	**Total Well Depth: 16 FT TOC**	**Purge Method: Pump**
Time of Purge Initiation: 8:05			
☐ dedicated	**Date/Time of Pump Installation: 8/21/2024 15:21**	**Pump Type: Peristaltic**	**Pump Depth: ~12 FT TOC**
Water Level after Pump Installation: NA			

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (g/L)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
8:14	120	6.40	146	0.51	316	10.01	NA	150	NA	NA	NA
8:19	120	5.96	140	0.00	316	10.48	NA	62.6	NA	NA	NA
8:24	120	5.94	139	0.00	316	10.56	NA	50.0	NA	NA	NA
8:29	120	5.93	135	0.00	316	10.75	NA	17.2	NA	NA	NA
8:34	120	5.93	131	0.00	314	10.88	NA	16.9	NA	NA	NA
8:39	120	5.93	131	0.00	314	10.99	NA	15.9	NA	NA	NA

Other Field Measurements:
P Alk: 0.0 ppm
T Alk: 80 ppm
Fe: 1.10 mg/L

Notes:
NA: Not Analyzed

Deviations from SAP:
Unable to gauge well while purging due to small diameter of well.

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 8/21/2024	Time:8:42	Water Level: NA	pH (S.U.): 5.93	ORP (mV): 131	Diss. Oxygen (ppm): 0.00	Spec. Cond (µS/cm): 314
Temperature: 10.99 °C	TDS (g/L): NA	Turbidity (NTU): 14.8	Color/Appearance: NA	Odor: None		Final Volume Removed: 1.5 Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0050**	**Date: 8/21/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel: BDT	**Well #: RU-20 (OLN-RU020-F009)**	**Static Water Level: 11.38 FT TOC**	

Depth to Top of Screen: NA	**Well Diameter (in.): 2**	**Total Well Depth: 38.40 FT TOC**	**Purge Method: Pump**	**Time of Purge Initiation: 14:51**
☐ dedicated	**Date/Time of Pump Installation: 8/21/2024 14:45**	**Pump Type: Bladder**	**Pump Depth: ~37 FT TOC**	**Water Level after Pump Installation: 11.42**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (g/L)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
15:02	100	6.63	-203	2.10	2030	16.75	1.33	696	Sheen Present	11.42	0.00
15:07	100	7.03	-260	0.36	2660	14.59	1.70	237	Sheen Present	11.42	0.00
15:12	100	7.08	-267	0.34	2580	14.20	1.65	165	Sheen Present	11.42	0.00
15:17	100	7.07	-274	0.33	2110	14.00	1.35	59.0	Sheen Present	11.42	0.00
15:22	100	7.07	-274	0.30	2050	14.01	1.31	38.9	Sheen Present	11.42	0.00
15:27	100	7.06	-274	0.27	1970	14.03	1.26	33.0	Sheen Present	11.42	0.00
15:37	100	7.07	-284	0.27	1860	13.88	1.19	25.3	Sheen Present	11.42	0.00
15:42	100	7.08	-289	0.26	1830	13.78	1.17	24.9	Sheen Present	11.42	0.00

Other Field Measurements:
P Alk: 0.0 ppm
T Alk: 232 ppm
Fe: 0.38 mg/L

Notes:
NA: Not Analyzed

Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 8/21/2024	Time: 15:47	Water Level: 11.42 FT TOC	pH (S.U.): 7.09	ORP (mV): -290	Diss. Oxygen (ppm): 0.26	Spec. Cond (µS/cm): 1820
Temperature:13.78 °C	TDS (g/L): 1.16	Turbidity (NTU): 23.7	Color/Appearance: Sheen Present	Odor: Amendment Scent	Final Volume Removed: 1.5 Gallons	

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0050**	**Date: 8/21/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel: LJR	**Well #: RU-27A (OLN-RU027A-F009)**	**Static Water Level: 5.62 FT TOC**	
Depth to Top of Screen: NA	**Well Diameter (in.): 2**	**Total Well Depth: 18 FT**	**Purge Method: Pump**
Time of Purge Initiation: 15:35			
☐ dedicated	**Date/Time of Pump Installation: 8/21/2024 15:26**	**Pump Type: Bladder**	**Pump Depth: ~13 FT TOC**
Water Level after Pump Installation: 8.55 FT TOC			

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (g/L)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
15:53	60	6.31	132	2.61	285	18.22	NA	34.0	NA	5.65	2.90
15:58	125	6.19	118	1.54	309	17.26	NA	34.3	NA	5.65	0.00
16:03	125	6.12	122	1.42	390	17.36	NA	32.1	NA	5.65	0.00
16:08	125	6.21	100	1.53	420	17.13	NA	30.9	NA	5.65	0.00
16:13	125	6.18	95	1.43	431	17.01	NA	32.1	NA	5.65	0.00
16:18	125	6.13	91	1.38	434	16.98	NA	33.2	NA	5.65	0.00

Other Field Measurements:
P Alk: 0.0 ppm
T Alk: 360 ppm
Fe: 1.62 mg/L

Notes:
NA: Not Analyzed

Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 8/21/2024	Time:16:20	Water Level: 5.65 FT TOC	pH (S.U.): 6.15	ORP (mV): 90	Diss. Oxygen (ppm): 1.31	Spec. Cond (µS/cm): 433
Temperature: 16.98 °C	TDS (g/L): NA	Turbidity (NTU): 32.2	Color/Appearance: NA	Odor: None		Final Volume Removed: 1.5 Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0050**	**Date: 8/21/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel: BDT	**Well #: RU-28 (OLN-RU028-F009)**	**Static Water Level: 7.55 FT TOC**	

Depth to Top of Screen: NA	**Well Diameter (in.): 2**	**Total Well Depth: 17.90 FT TOC**	**Purge Method: Pump**	**Time of Purge Initiation: 12:17**
☐ dedicated	**Date/Time of Pump Installation: 8/21/2024 12:12**	**Pump Type: Bladder**	**Pump Depth: ~16 FT TOC**	**Water Level after Pump Installation: 7.19 FT TOC**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (g/L)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
12:26	100	4.99	13	1.44	592	17.60	378	1000+	NA	7.98	0.79
12:31	100	4.98	3	0.14	592	17.02	379	1000+	NA	8.16	0.18
12:36	100	4.96	-6	0.02	592	17.39	379	790	NA	8.21	0.05
12:41	100	4.96	-16	0.02	588	17.90	376	569	NA	8.21	0.00
12:46	100	4.98	-33	0.02	593	18.09	380	481	NA	8.21	0.00
12:51	100	4.99	-80	0.02	596	17.88	382	421	NA	8.21	0.00
12:56	100	5.01	-62	0.02	595	17.38	381	403	NA	8.21	0.00
13:01	100	5.01	-59	0.02	592	17.39	379	393	NA	8.21	0.00

Other Field Measurements:
P Alk: 0.0 ppm
T Alk: 40 ppm
Fe: 0.23 mg/L

Notes:
NA: Not Analyzed

Purge Water was white in color

Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 8/21/2024	Time: 13:06	Water Level: 8.21 FT TOC	pH (S.U.): 5.02	ORP (mV): -59	Diss. Oxygen (ppm): 0.02	Spec. Cond (µS/cm): 591
Temperature: 17.39 °C	TDS (g/L): 0.378	Turbidity (NTU): 400	Color/Appearance: NA	Odor: Amendment Scent		Final Volume Removed: 1.0 Gallon

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0050**	**Date: 8/21/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel: BDT	**Well #: 18M (OLN-WW018M-F009)**	**Static Water Level: NA**	

Depth to Top of Screen: NA	**Well Diameter (in.): NA**	**Total Well Depth: NA**	**Purge Method: NA**	**Time of Purge Initiation: 11:02**
☐ dedicated	**Date/Time of Pump Installation: NA**	**Pump Type: Direct Grab**	**Pump Depth: NA**	**Water Level after Pump Installation: NA**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp.	TDS (g/L)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)	Other Field Measurements: P Alk: 0.0 ppm T Alk: 196 ppm Fe: 2.60 mg/L	Notes: NA: Not Analyzed	Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 8/21/2024	Time: 11:04	Water Level: NA	pH (S.U.): 7.27	ORP (mV): 71	Diss. Oxygen (ppm): 3.00	Spec. Cond (µS/cm): 817
Temperature: NA	TDS (g/L): NA	Turbidity (NTU): 0.1	Color/Appearance: NA	Odor: None		Final Volume Removed: 2 Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3	**Project No.: 300-082.0050**	**Date: 8/22/2024**	Civil & Environmental Consultants of New York, Inc.
Personnel: LJR	**Well #: RU-19 (OLN-RU019-F009)**	**Static Water Level: 9.03FT TOC**	

Depth to Top of Screen: NA	**Well Diameter (in.): 2**	**Total Well Depth: 20 FT TOC**	**Purge Method: Pump**	**Time of Purge Initiation: 8:05**
☐ dedicated	**Date/Time of Pump Installation: 8/22/2024 8:00**	**Pump Type: Bladder**	**Pump Depth: ~15 FT TOC**	**Water Level after Pump Installation: 8.57**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (g/L)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
8:10	130	4.90	60	3.19	2220	11.38	NA	59.2	NA	9.01	0.44
8:15	130	5.86	-44	0.53	2050	11.78	NA	31.7	NA	9.01	0.00
8:20	130	5.97	-26	0.32	2040	12.03	NA	20.1	NA	9.01	0.00
8:25	130	6.10	-21	0.19	2170	12.23	NA	15.8	NA	9.01	0.00
8:30	130	5.98	-14	0.36	1590	12.28	NA	12.5	NA	9.01	0.00
8:35	130	6.12	-10	0.13	2190	12.17	NA	12.6	NA	9.01	0.00

Other Field Measurements:
P Alk: 0.0 ppm
T Alk: 580 ppm
Fe: 0.98 mg/L

Notes:
NA: Not Analyzed

Yellow petroleum smelling residue on end of water level initially; nothing smiliar was pumped out.

Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 8/22/2024	Time: 8:40	Water Level: 9.01 FT TOC	pH (S.U.): 6.09	ORP (mV): -12	Diss. Oxygen (ppm): 0.26	Spec. Cond (µS/cm): 2100
Temperature: 12.17 °C	TDS (g/L): NA	Turbidity (NTU): 13.1	Color/Appearance: NA	Odor: None		Final Volume Removed: 1.5 Gallons

LOW FLOW SAMPLING DATA SHEET

Site: Olean OU3					**Project No.: 300-082.0050**			**Date: 8/21/2024**			Civil & Environmental Consultants of New York, Inc.
Personnel: BDT					**Well #: RU-21 (OLN-RU021-F009)**			**Static Water Level: 8.74 FT TOC**			
Depth to Top of Screen: NA			**Well Diameter (in.): 2**			**Total Well Depth: 19.41 FT TOC**		**Purge Method: Pump**			**Time of Purge Initiation: 7:53**
☐ dedicated		**Date/Time of Pump Installation: 8/22/2024 7:46**			**Pump Type: Bladder**			**Pump Depth: ~18 FT TOC**			**Water Level after Pump Installation: 8.57**

Time	Flow Rate	pH (S.U.)	ORP (mV)	Diss. Oxygen (ppm)	Spec. Cond. (µS/cm)	Temp. (°C)	TDS (g/L)	Turbidity (NTU)	Appearance	Water Level	Drawdown (ft)
7:56	125	6.32	-99	3.73	1340	14.10	0.856	466	Sheen Present, Fine Black Particles	9.24	0.67
8:01	100	6.37	-103	3.59	1310	14.08	0.839	281	Sheen Present, Fine Black Particles	9.38	0.14
8:06	100	6.37	-97	3.59	1310	13.99	0.838	204	Sheen Present, Fine Black Particles	9.39	0.01
8:11	100	6.37	-92	3.55	1330	13.86	0.848	162	Sheen Present, Fine Black Particles	9.39	0.00
8:16	100	6.37	-88	3.39	1330	13.84	0.853	146	Sheen Present, Fine Black Particles	9.39	0.00
8:21	100	6.37	-87	3.41	1330	13.84	0.853	143	Sheen Present, Fine Black Particles	9.39	0.00
8:26	100	6.37	-86	3.40	1340	13.83	0.858	140	Sheen Present, Fine Black Particles	9.39	0.00

Other Field Measurements:
P Alk: 0.0 ppm
T Alk: 752 ppm
Fe: 1.97 mg/L

Notes:
NA: Not Analyzed

FD002 Collected at 22:00: OLN-FD002-D009

Deviations from SAP:

FIELD MEASUREMENTS AT TIME OF SAMPLE

Date: 8/21/2024	Time: 8:31	Water Level: 9.39 FT TOC	pH (S.U.): 6.38	ORP (mV): -85	Diss. Oxygen (ppm): 3.38	Spec. Cond (µS/cm): 1330

Temperature: 13.83 °C	TDS (g/L): 0.853	Turbidity (NTU): 141	Color/Appearance: Sheen Present, Fine Black Particles	Odor: Amendment Odor	Final Volume Removed: 1.0 Gallon

APPENDIX G
HISTORICAL DATA

APPENDIX G (Page 1 of 6)
HISTORICAL GROUNDWATER CHEMISTRY DATA
OPERABLE UNIT 3 IN THE ALCAS SOURCE AREA
OLEAN WELL FIELD SUPERFUND SITE
OLEAN, NEW YORK

Location		RU-8			RU-9					RU-10		
Sample ID		OLN-RU008-F005	OLN-RU008-F007	OLN-RU008-F009	OLN-RU009-F005	OLN-RU009-F006	OLN-RU009-F007	OLN-RU009-F008	OLN-RU009-F009	OLN-RU010-F005	OLN-RU010-F008	OLN-RU010-F009
Lab ID		R2304457-001	R2401280-023	R2408139-008	R2304457-002	R2310645-016	R2401280-008	R2404674-001	R2408139-002	R2304457-003	R2404674-004	R2408139-007
Date		5/16/2023	2/14/2024	8/21/2024	5/16/2023	11/14/2023	2/13/2024	5/28/2024	8/20/2024	5/16/2023	5/29/2024	8/21/2024
Time		18:41	8:31	12:55	11:57	11:06	11:36	16:06	14:17	12:11	17:50	10:30
Field Readings	**Units**											
pH	*S.U.*	**6.04**	**6.99**	**6.02**	**6.34**	**6.06**	**6.18**	**7.67**	**5.89**	**5.28**	**6.05**	**6.60**
Temperature	*C*	**12.93**	**6.60**	**16.44**	**21.58**	**12.5**	**7.60**	**17.6**	**18.07**	**14.15**	**16.13**	**15.53**
Conductance	*mS/cm*	**0.615**	**0.697**	**0.201**	**0.317**	**1.53**	**0.515**	**0.357**	**0.688**	**0.505**	**0.715**	**0.938**
Dissolved Oxygen	*mg/L*	0.0	**0.97**	0.0	**1.62**	**4.34**	**7.7**	**3.72**	**4.23**	**0.70**	**7.10**	**10.01**
Oxidation Reduction Potential	*mV*	**57**	**160.1**	**139**	**177**	**179.7**	**220.5**	**281**	**301**	**-28**	**-13**	**-92**
Field Alkalinity	*mg/L*	**240**	**240**	**340**	**60**	NA	**100**	**60**	**80**	**200**	NA	**280**
Ferrous Iron	*mg/L*	0.0	NA	**0.07**	**0.05**	NA	NA	NA	**0.02**	**7.88**	NA	**0.62**
Static Water Level	*ft btc*	**7.04**	**6.77**	**7.37**	**7.55**	**9.45**	**7.63**	**7.60**	**7.86**	**7.73**	NM	**9.45**
Volatile Organic Compounds (VOCs)												
Tetrachloroethene	*mg/L*	<0.001	**0.00027 J**	**0.00051 J**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0025	<0.002	**0.012**
Trichloroethene	*mg/L*	**0.044**	**0.15**	**0.2**	**0.0015**	**0.0024**	**0.00052 J**	**0.00048 J**	**0.00046 J**	**0.17**	**0.034**	**0.022**
cis-1,2-Dichloroethene	*mg/L*	**0.0017**	**0.0038**	**0.0095**	**0.00027 J**	**0.0015**	<0.001	**0.00032 J**	<0.001	**0.13**	**0.15**	**0.081**
trans-1,2-Dichloroethene	*mg/L*	<0.001	<0.001	**0.00021 J**	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0012 J**	**0.0011 J**	**0.00055 J**
Vinyl chloride	*mg/L*	<0.001	**0.00027 J**	**0.00055 J**	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0044**	**0.0015 J**	**0.00068 J**
Dissolved Gases												
Ethane	*mg/L*	<0.0033	<0.0052	**0.0011 J**	<0.0033	<0.0052	<0.0052	<0.0052	<0.0052	<0.0033	<0.0052	<0.0052
Ethene	*mg/L*	<0.0024	<0.005	<0.005	<0.0024	<0.005	<0.005	<0.005	<0.005	<0.0024	<0.005	<0.005
Methane	*mg/L*	**0.0023**	**0.0092**	**0.011**	<0.0015	<0.0052	<0.0052	<0.0052	<0.0052	**2.22**	**0.059**	**0.027**
Volatile Fatty Acids (VFAs)												
Acetic Acid	*mg/L*	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.3**	**1.2**	**3.9**
Butanoic Acid	*mg/L*	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Propionic Acid	*mg/L*	<2.0	<2.0	<2.0	<2.0	<2.0	**1.5 J**	<2.0	<2.0	<2.0	<2.0	**11**
Dissolved Metals												
Arsenic	*mg/L*	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.019**	**0.006 J**	**0.012**
Iron	*mg/L*	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**9.17**	**5.44**	**6.02**
Manganese	*mg/L*	**0.483**	**0.234**	**0.159**	<0.01	<0.01	<0.01	<0.01	<0.01	**13.3**	**3.46**	**3.28**
General Chemistry												
Sulfate	*mg/L*	**30.1**	**35.9**	**40.5**	**14.6**	**183**	**42.6**	**25.6**	**68.9**	**37.5**	**197**	**201**
Chemical Oxygen Demand	*mg/L*	<5.0	<5.0	**6.0**	<5.0	<5.0	**6.5**	<5.0	<5.0	**15.4**	NA	**1,970**
Dechlorinating Bacteria												
Dehalococcoides (DHC)	*cells/mL*	NA	NA	NA	**1.50**	NA	NA	<0.250	NA	<2.60	NA	NA
tceA Reductase	*cells/mL*	NA	NA	NA	<0.500	NA	NA	<0.250	NA	<2.60	NA	NA
Reductase	*cells/mL*	NA	NA	NA	<0.500	NA	NA	<0.250	NA	<2.60	NA	NA
Vinyl Chloride Reductase	*cells/mL*	NA	NA	NA	<0.500	NA	NA	<0.250	NA	<2.60	NA	NA

Notes:
Bolded values were detected at concentrations above the Method Detection Limit (MDL).
mg/l - Milligrams per liter
S.U. - Standard Units
mS/cm - MilliSiemens per centimeter
mV - Millivolts
cells/mL - Cells per milliliter
ft btc - Feet below top of casing

< - Analyte not detected above Method Reporting Limit (MRL).
J - Estimated value due to etiher being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL.
D - Concentration is a result of a dilution.
NA - Not analyzed.

APPENDIX G (Page 2 of 6)
HISTORICAL GROUNDWATER CHEMISTRY DATA
OPERABLE UNIT 3 IN THE ALCAS SOURCE AREA
OLEAN WELL FIELD SUPERFUND SITE
OLEAN, NEW YORK

Location		RU-11			RU-15					RU-16		
Sample ID		OLN-RU011-F005	OLN-RU011-F007	OLN-RU011-F009	OLN-RU015-F005	OLN-RU015-F006	OLN-RU015-F007	OLN-RU015-F008	OLN-RU015-F009	OLN-RU016-F005	OLN-RU016-F007	OLN-RU016-F009
Lab ID		R2304457-004	R2401280-010	R2408139-001	R2304457-005	R2310645-019	R2401280-013	R2404674-005	R2408139-005	R2304457-006	R2401280-014	R2408139-003
Date		5/16/2023	2/13/2024	8/20/2024	5/16/2023	11/13/2023	2/13/2024	5/29/2024	8/21/2024	5/16/2023	2/13/2024	8/20/2024
Time		14:37	13:32	18:08	18:20	13:53	15:45	8:42	8:42	16:52	17:00	16:05
Field Readings	**Units**											
pH	*S.U.*	**7.39**	**6.98**	**6.94**	**6.09**	**5.47**	**5.96**	**6.02**	**5.93**	**5.97**	**5.91**	**6.05**
Temperature	*C*	**18.47**	**7.7**	**15.02**	**15.48**	**10.7**	**7.5**	**13.89**	**10.99**	**15.87**	**6.8**	**16.88**
Conductance	*mS/cm*	**0.420**	**0.524**	**0.525**	**0.128**	**0.238**	**0.2967**	**0.27**	**0.314**	**0.103**	**0.4624**	**0.267**
Dissolved Oxygen	*mg/L*	**6.35**	**7.66**	**0.12**	0.0	**1.68**	**0.3**	0.0	0.0	0.0	**0.01**	0.0
Oxidation Reduction Potential	*mV*	**-41**	**68.2**	**-14**	**128**	**172**	**50.9**	**159**	**131**	**135**	**126.3**	**175**
Field Alkalinity	*mg/L*	**180**	**291**	**260**	**60**	NA	**63**	**100**	**80**	**60**	**75**	**140**
Ferrous Iron	*mg/L*	**0.42**	NA	**0.75**	**1.16**	NA	NA	NA	**1.10**	**0.28**	NA	**0.84**
Static Water Level	*ft btc*	**6.48**	**9.70**	**7.50**	**6.75**	**9.45**	**6.52**	**6.32**	**7.92**	**7.10**	**6.78**	**8.24**
Volatile Organic Compounds (VOCs)												
Tetrachloroethene	*mg/L*	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethene	*mg/L*	**0.00028 J**	<0.001	<0.001	**0.0011**	**0.00081 J**	**0.0058**	**0.0017**	**0.0014**	**0.0094**	<0.001	**0.0049**
cis-1,2-Dichloroethene	*mg/L*	**0.0078**	**0.0017**	**0.0064**	**0.0013**	**0.00077 J**	**0.0064**	**0.0014**	**0.0012**	**0.023**	<0.001	**0.027**
trans-1,2-Dichloroethene	*mg/L*	<0.001	<0.001	<0.001	<0.001	<0.001	**0.00039 J**	<0.001	<0.001	**0.00038 J**	<0.001	**0.00062 J**
Vinyl chloride	*mg/L*	**0.00063 J**	**0.00061 J**	**0.0015**	**0.0003 J**	<0.001	**0.0017**	**0.0002 J**	**0.00026 J**	**0.0018**	<0.001	**0.0016**
Dissolved Gases												
Ethane	*mg/L*	<0.0033	<0.0052	<0.0052	<0.0033	<0.0052	<0.0052	<0.0052	<0.0052	<0.0033	<0.0052	<0.0052
Ethene	*mg/L*	<0.0024	<0.005	<0.005	<0.0024	<0.005	<0.005	<0.005	<0.005	<0.0024	<0.005	<0.0050
Methane	*mg/L*	<0.0015	<0.0052	**0.17**	**0.0045**	**0.0051 J**	**0.061**	**0.0077**	**0.007**	**0.0214**	<0.0052	**0.42**
Volatile Fatty Acids (VFAs)												
Acetic Acid	*mg/L*	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.1**
Butanoic Acid	*mg/L*	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Propionic Acid	*mg/L*	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dissolved Metals												
Arsenic	*mg/L*	<0.01	<0.01	**0.015**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.019 J**
Iron	*mg/L*	**0.53**	**0.23**	**1.24**	**1.31**	**0.17**	**5.49**	**1.56**	**0.94**	**0.31**	<0.1	**8.55**
Manganese	*mg/L*	**0.669**	**0.767**	**0.765**	**0.692**	**0.745**	**1.17**	**0.649**	**0.761**	**0.3**	**0.238**	**19.8**
General Chemistry												
Sulfate	*mg/L*	**34.3**	**33.7**	**25.9**	**21.1**	**22.3**	**28.5**	**19.6**	**24.6**	**9.1**	**63.2**	**6.2**
Chemical Oxygen Demand	*mg/L*	<5.0	<5.0	**8.6**	**4.2 J**	**11.2**	**27.3**	**11.9**	**9.2**	<5.0	**27.6**	**181**
Dechlorinating Bacteria												
Dehalococcoides (DHC)	*cells/mL*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
tceA Reductase	*cells/mL*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Reductase	*cells/mL*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride Reductase	*cells/mL*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
Bolded values were detected at concentrations above the Method Detection Limit (MDL).
mg/l - Milligrams per liter
S.U. - Standard Units
mS/cm - MilliSiemens per centimeter
mV - Millivolts
cells/mL - Cells per milliliter

< - Analyte not detected above Method Reporting Limit (MRL).
J - Estimated value due to etiher being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL.
D - Concentration is a result of a dilution.
NA - Not analyzed.

APPENDIX G (Page 3 of 6)
HISTORICAL GROUNDWATER CHEMISTRY DATA
OPERABLE UNIT 3 IN THE ALCAS SOURCE AREA
OLEAN WELL FIELD SUPERFUND SITE
OLEAN, NEW YORK

Location		RU-19					RU-20				
Sample ID		OLN-RU019-F005	OLN-RU019-F006	OLN-RU019-F007	OLN-RU019-F008	OLN-RU019-F009	OLN-RU020-F005	OLN-RU020-F006	OLN-RU020-F007	OLN-RU020-F008	OLN-RU020-F009
Lab ID		R2304457-007	R2310645-002	R2401280-017	R2404674-006	R2408139-012	R2304457-008	R2310645-003	R2401280-016	R2404674-007	R2408140-011
Date		5/16/2023	11/13/2023	2/13/2024	5/29/2024	8/22/2024	5/16/2023	11/13/2023	2/13/2024	5/29/2024	8/21/2024
Time		9:40	13:51	13:30	17:20	8:40	9:30	15:32	12:25	14:55	15:47
Field Readings	**Units**										
pH	*S.U.*	**6.89**	**8.72**	**6.42**	**6.76**	**6.09**	**7.30**	**8.62**	**6.82**	**7.3**	**7.09**
Temperature	*C*	**11.65**	**15.76**	**9.3**	**13.67**	**12.17**	**14.74**	**12.6**	**10.5**	**14.52**	**13.78**
Conductance	*mS/cm*	**0.674**	**1.175**	**1.475**	**1.57**	**2.10**	**0.685**	**0.654**	**0.702**	**0.875**	**1.820**
Dissolved Oxygen	*mg/L*	NA	**0.62**	**0.09**	**4.42**	**0.26**	**0.43**	**1.68**	**0.14**	0.0	**0.26**
Oxidation Reduction Potential	*mV*	**-77**	**-268**	**-203**	**-59**	**-12**	**-277**	**-291.3**	**-204**	**-250**	**-290**
Field Alkalinity	*mg/L*	**300**	**390**	**375**	**620**	**580**	**240**	**225**	**501**	**248**	**232**
Ferrous Iron	*mg/L*	**11.44**	NA	NA	NA	**0.98**	**0.77**	NA	NA	NA	**0.38**
Static Water Level	*ft btc*	**7.68**	**10.55**	**7.75**	**7.83**	**9.03**	**9.85**	**12.98**	**10.78**	**10.04**	**11.38**
Volatile Organic Compounds (VOCs)											
Tetrachloroethene	*mg/L*	**0.00068 J**	<0.0025	**0.00047 J**	<0.0025	**0.0005 D**	<0.005	<0.001	<0.005	<0.0025	<0.0025
Trichloroethene	*mg/L*	**0.23**	**0.1**	**0.18**	**0.16**	**0.39 D**	**0.59**	**0.1**	**0.36**	**0.32**	**0.1**
cis-1,2-Dichloroethene	*mg/L*	**0.097**	**0.19**	**0.25**	**0.19**	**0.42 D**	**0.087**	**0.14**	**0.2**	**0.26**	**0.34**
trans-1,2-Dichloroethene	*mg/L*	**0.0014 J**	**0.0017 J**	**0.0024**	**0.0022 J**	**0.0048 DJ**	<0.005	**0.00052 J**	**0.0014 J**	**0.0018 J**	**0.0024 J**
Vinyl chloride	*mg/L*	**0.0059**	**0.0066**	**0.017**	**0.0097**	**0.039 D**	<0.005	<0.001	<0.005	<0.0025	<0.0025
Dissolved Gases											
Ethane	*mg/L*	<0.0033	**0.003 DJ**	<0.1	<0.1	<0.1	<0.0033	<0.1	<0.052	<0.052	<0.052
Ethene	*mg/L*	<0.0024	<0.01	<0.1	<0.1	<0.1	<0.0024	<0.1	<0.05	<0.05	<0.05
Methane	*mg/L*	**0.4**	**0.760 D**	**4.8 D**	**3.6**	**6.1 D**	**0.912**	**6.2 D**	**4.1**	**4.8**	**4.2**
Volatile Fatty Acids (VFAs)											
Acetic Acid	*mg/L*	<1.0	**2.8**	**120**	**230**	**820**	<1.0	<1.0	**1.5**	<1.0	**0.66 J**
Butanoic Acid	*mg/L*	<10	<10	**67**	**210**	**490**	<10	<10	<10	<10	<10
Propionic Acid	*mg/L*	<2.0	**1.5 J**	**45**	**120**	**280**	<2.0	<2.0	<2.0	<2.0	<2.0
Dissolved Metals											
Arsenic	*mg/L*	**0.008 J**	**0.007 J**	<0.01	**0.059**	**0.06**	<0.01	**0.009 J**	<0.01	<0.01	**0.006 J**
Iron	*mg/L*	**12.4**	**1.6**	**29.8**	**118**	**95**	**0.61**	**0.8**	**0.83**	**0.99**	**0.31**
Manganese	*mg/L*	**18**	**9.77**	**13.8**	**45.5**	**26.2**	**0.78**	**1.25**	**1.17**	**1.1**	**0.811**
General Chemistry											
Sulfate	*mg/L*	**65.7**	**280**	**370**	**99.8**	**68.1**	**28.1**	**18**	**65.7**	**187**	**264**
Chemical Oxygen Demand	*mg/L*	<5.0	**9.6**	**614**	**1,390**	**838**	**16.7**	**23.5**	**38.9**	**25**	**56.3**
Dechlorinating Bacteria											
Dehalococcoides (DHC)	*cells/mL*	**15.5**	NA	NA	**47**	NA	**2.50**	NA	NA	**1.4**	NA
tceA Reductase	*cells/mL*	**0.400 J**	NA	NA	**11**	NA	<0.600	NA	NA	<0.250	NA
Reductase	*cells/mL*	<0.500	NA	NA	<0.480	NA	<0.600	NA	NA	<0.250	NA
Vinyl Chloride Reductase	*cells/mL*	**1.00**	NA	NA	**20**	NA	<0.600	NA	NA	<0.250	NA

Notes:
Bolded values were detected at concentrations above the Method Detection Limit (MDL).
mg/l - Milligrams per liter
S.U. - Standard Units
mS/cm - MilliSiemens per centimeter
mV - Millivolts
cells/mL - Cells per milliliter

< - Analyte not detected above Method Reporting Limit (MRL).
J - Estimated value due to etiher being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL.
D - Concentration is a result of a dilution.
NA - Not analyzed.

APPENDIX G (Page 4 of 6)
HISTORICAL GROUNDWATER CHEMISTRY DATA
OPERABLE UNIT 3 IN THE ALCAS SOURCE AREA
OLEAN WELL FIELD SUPERFUND SITE
OLEAN, NEW YORK

Location		RU-21					RU-27A				
Sample ID		OLN-RU021-F005	OLN-RU021-F006	OLN-RU021-F007	OLN-RU021-F008	OLN-RU021-F009	OLN-RU27A-F005	OLN-RU27A-F006	OLN-RU27A-F007	OLN-RU27A-F008	OLN-RU27A-F009
Lab ID		R2304457-009	R2310645-010	R2401280-018	R2404674-008	R2408140-012	R2304457-010	R2310645-011	R2401280-011	R2404674-009	R2408139-010
Date		5/16/2023	11/14/2023	2/13/2024	5/29/2024	8/21/2024	5/16/2023	11/14/2023	2/13/2024	5/29/2024	8/21/2024
Time		9:59	8:17	15:38	16:11	8:31	13:27	11:00	14:41	14:21	16:20
Field Readings	**Units**										
pH	*S.U.*	**5.67**	**7.41**	**6.34**	**6.73**	**6.38**	**5.95**	**6.9**	**6.17**	**6.69**	**6.15**
Temperature	*C*	**11.82**	**11.5**	**9.4**	**15.72**	**13.83**	**20.33**	**13.6**	**8.6**	**16.24**	**16.98**
Conductance	*mS/cm*	**0.676**	**1.731**	**1.458**	**0.849**	**1.330**	**0.080**	**0.875**	**0.864**	**0.806**	**0.433**
Dissolved Oxygen	*mg/L*	**0.43**	**0.32**	**0.01**	0.0	**3.38**	**0.17**	**0.49**	**0.07**	0.0	**1.31**
Oxidation Reduction Potential	*mV*	**-84**	**-156.7**	**-159**	**-63**	**-85**	**225**	**-133.2**	**-67.5**	**-65**	**90**
Field Alkalinity	*mg/L*	**244**	**810**	**735**	**304**	**752**	**60**	**423**	**381**	**400**	**360**
Ferrous Iron	*mg/L*	**14.28**	NA	NA	NA	**1.97**	**0**	NA	NA	NA	**1.62**
Static Water Level	*ft btc*	**7.52**	**10.40**	**7.50**	**7.33**	**8.74**	**7.56**	**10.18**	**7.23**	**7.29**	**5.62**
Volatile Organic Compounds (VOCs)											
Tetrachloroethene	*mg/L*	**0.00023 J**	<0.001	**0.00029 J**	<0.001	**0.0031**	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethene	*mg/L*	**0.1**	**0.0022**	**0.085**	**0.028**	**0.0025**	**0.001**	**0.0018**	**0.00071 J**	**0.00035 J**	**0.00024 J**
cis-1,2-Dichloroethene	*mg/L*	**0.038**	**0.0058**	**0.029**	**0.022**	**0.02**	**0.0031**	**0.098**	**0.0056**	**0.0014**	**0.0016**
trans-1,2-Dichloroethene	*mg/L*	**0.0017**	**0.00096 J**	**0.0012**	**0.0012**	**0.0011**	<0.001	**0.0042**	**0.00021 J**	<0.001	<0.001
Vinyl chloride	*mg/L*	**0.019**	**0.0069**	**0.018**	**0.015**	**0.011**	**0.00024 J**	**0.082**	**0.0013**	**0.00049 J**	**0.00044 J**
Dissolved Gases											
Ethane	*mg/L*	<0.0033	<0.1	<0.26	<0.26	<0.1	<0.0033	<0.1	<0.1	<0.1	<0.1
Ethene	*mg/L*	**0.0126**	<0.1	<0.25	<0.25	<0.1	<0.0024	<0.1	<0.1	<0.1	<0.1
Methane	*mg/L*	**4.85**	**6.9 D**	**12 D**	**16**	**8.4**	**0.0028**	**5.2 D**	**5.5**	**4.2**	**6.1**
Volatile Fatty Acids (VFAs)											
Acetic Acid	*mg/L*	**8.6**	**430**	**89**	**54**	**7.1**	<1.0	**80**	**210**	**230**	**9.2**
Butanoic Acid	*mg/L*	<10	**67**	**8.2 J**	<10	<10	<10	<10	<20	<20	<10
Propionic Acid	*mg/L*	<2.0	**130**	**17**	**10**	**10**	<2.0	**5.7**	**74**	**54**	**9.3**
Dissolved Metals											
Arsenic	*mg/L*	**0.06**	**0.23**	**0.076**	**0.061**	**0.1**	<0.01	**0.043**	**0.018**	**0.032**	**0.033 J**
Iron	*mg/L*	**22**	**121**	**57.4**	**47.5**	**59.3**	<0.1	**14.7**	**42.3**	**124**	**78.8**
Manganese	*mg/L*	**1.66**	**8.77**	**4.74**	**3.6**	**4.19**	**0.577**	**39.1**	**120**	**91.7**	**38.4**
General Chemistry											
Sulfate	*mg/L*	**42.4**	**27.6**	**248**	**100**	**60.8**	**5.5**	**0.9 J**	<2	**1.3 J**	**1.4 J**
Chemical Oxygen Demand	*mg/L*	**31.1**	**1,460**	**259**	**267**	**272**	<5.0	**168**	**749**	**539**	**47.5**
Dechlorinating Bacteria											
Dehalococcoides (DHC)	*cells/mL*	**4,740**	NA	NA	**3,200**	NA	**2.20**	NA	NA	**35**	NA
tceA Reductase	*cells/mL*	**620**	NA	NA	**600**	NA	<0.500	NA	NA	**19**	NA
Reductase	*cells/mL*	<2.40	NA	NA	<1.2	NA	<0.500	NA	NA	<0.940	NA
Vinyl Chloride Reductase	*cells/mL*	**436**	NA	NA	**1,600**	NA	<0.500	NA	NA	**32**	NA

Notes:
Bolded values were detected at concentrations above the Method Detection Limit (MDL).
mg/l - Milligrams per liter
S.U. - Standard Units
mS/cm - MilliSiemens per centimeter
mV - Millivolts
cells/mL - Cells per milliliter

< - Analyte not detected above Method Reporting Limit (MRL).
J - Estimated value due to etiher being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL.
D - Concentration is a result of a dilution.
NA - Not analyzed.

APPENDIX G (Page 5 of 6)
HISTORICAL GROUNDWATER CHEMISTRY DATA
OPERABLE UNIT 3 IN THE ALCAS SOURCE AREA
OLEAN WELL FIELD SUPERFUND SITE
OLEAN, NEW YORK

Location		RU-28					UA-2					UA-3		
Sample ID		OLN-RU028-F005	OLN-RU028-F006	OLN-RU028-F007	OLN-RU028-F008	OLN-RU028-F009	OLN-UA002-F005	OLN-UA002-F006	OLN-UA002-F007	OLN-UA002-F008	OLN-UA002-F009	OLN-UA003-F005	OLN-UA003-F007	OLN-UA003-F009
Lab ID		R2304458-001	R2310645-007	R2401280-009	R2404674-010	R2408140-010	R2304458-002	R2310645-013	R2401280-019	R2404674-011	R2408140-003	R2304458-003	R2401280-022	R2408140-002
Date		5/16/2023	11/13/2023	2/13/2024	5/29/2024	8/21/2024	5/16/2023	11/14/2023	2/13/2024	5/29/2024	8/20/2024	5/16/2023	2/14/2024	8/20/2024
Time		11:40	16:47	12:27	12:35	13:06	17:05	12:52	17:03	10:10	15:25	15:19	9:00	13:37
Field Readings	**Units**													
pH	*S.U.*	**6.15**	**6.18**	**6.08**	**6.53**	**5.02**	**4.90**	**6.18**	**5.83**	**5.81**	**5.97**	**6.10**	**5.61**	**6.01**
Temperature	*C*	**18.49**	**12.3**	**7.5**	**16.91**	**17.39**	**10.25**	**11.8**	**8.8**	**11.59**	**13.34**	**16.79**	**8.6**	**14.27**
Conductance	*mS/cm*	**0.139**	**0.199**	**0.1978**	**0.172**	**0.591**	**0.180**	**0.403**	**0.337**	**0.356**	**0.260**	**0.090**	**0.128**	**0.214**
Dissolved Oxygen	*mg/L*	**2.11**	**5.21**	**4.56**	**6.42**	**0.02**	NA	**1.06**	**0.22**	0.0	**7.50**	**0.45**	**0.51**	**0.03**
Oxidation Reduction Potential	*mV*	**221**	**145.6**	**239**	**276**	**-59**	**55**	**-90.3**	**-1**	**-38**	**-110**	**49**	**-17.6**	**39**
Field Alkalinity	*mg/L*	**51**	NA	**72**	**75**	**40**	**54**	**108**	**60**	**44**	**56**	**84**	**60**	**80**
Ferrous Iron	*mg/L*	**0.07**	NA	NA	NA	**0.23**	**0.43**	NA	NA	NA	**1.32**	**1.17**	NA	**1.03**
Static Water Level	*ft btc*	**6.55**	**9.51**	**6.59**	**6.49**	**7.55**	**7.34**	**10.07**	**7.26**	**7.29**	**8.61**	**6.62**	**6.47**	**7.03**
Volatile Organic Compounds (VOCs)														
Tetrachloroethene	*mg/L*	<0.001	**0.00021 J**	<0.001	<0.001	**0.018**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethene	*mg/L*	**0.012**	**0.037**	**0.038**	**0.014**	**0.016**	**0.0027**	**0.0074**	**0.00056 J**	**0.00073 J**	**0.0024 J**	**0.0012**	**0.00095 J**	**0.00034 J**
cis-1,2-Dichloroethene	*mg/L*	**0.0015**	**0.0042**	**0.0044**	**0.0017**	**0.0021**	**0.0015**	**0.006**	<0.001	**0.00075 J**	**0.0039 J**	**0.00071 J**	**0.00079 J**	**0.00068 J**
trans-1,2-Dichloroethene	*mg/L*	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl chloride	*mg/L*	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0006 J**	<0.001	<0.001	<0.001
Dissolved Gases														
Ethane	*mg/L*	<0.0033	<0.0052	<0.0052	<0.0052	**0.00093 J**	<0.0033	<0.0052	<0.0052	<0.0052	0.013	<0.0033	<0.0052	<0.0052
Ethene	*mg/L*	<0.0024	<0.005	<0.005	<0.005	<0.005	<0.0024	<0.005	<0.005	<0.005	0.013	<0.0024	<0.005	<0.005
Methane	*mg/L*	<0.0015	<0.0052	<0.0052	<0.0052	**0.0032 J**	**0.0296**	**0.28**	**0.035**	**0.89 D**	**0.34**	**0.0424**	**0.076**	**0.46**
Volatile Fatty Acids (VFAs)														
Acetic Acid	*mg/L*	<1.0	<1.0	<1	<1.0	**230**	<1.0	**82**	<1.0	<1.0	<1.0	<1.0	**2.7**	<1.0
Butanoic Acid	*mg/L*	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Propionic Acid	*mg/L*	<2.0	<2.0	**1.8 J**	<2.0	**40**	<2.0	**5.7**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dissolved Metals														
Arsenic	*mg/L*	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.006 J**	<0.01
Iron	*mg/L*	<0.1	<0.1	<0.1	<0.1	<0.69	**0.25**	**0.35**	**0.12**	**1.91**	**1.6**	**0.82**	**1.55**	**5.52**
Manganese	*mg/L*	<0.01	<0.01	<0.01	<0.01	**3.14**	**0.07**	**1.1**	**0.046**	**1.38**	**1.25**	**0.783**	**0.246**	**1.44**
General Chemistry														
Sulfate	*mg/L*	**16.7**	**21.9**	**23.4**	**21.1**	**19.2**	**15.5**	**22.8**	**46.1**	**49.1**	**21.1**	**3.4**	**9.6**	**15.1**
Chemical Oxygen Demand	*mg/L*	<5.0	<5.0	**6.2**	<5.0	**5,590**	<5.0	<5.0	**8.6**	**11.5**	**21.9**	**10.8**	**24.4**	**99.2**
Dechlorinating Bacteria														
Dehalococcoides (DHC)	*cells/mL*	**0.500 J**	NA	NA	<0.770	NA	NA	NA	NA	NA	NA	NA	NA	NA
tceA Reductase	*cells/mL*	<0.500	NA	NA	<0.770	NA	NA	NA	NA	NA	NA	NA	NA	NA
Reductase	*cells/mL*	<0.500	NA	NA	<0.770	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride Reductase	*cells/mL*	<0.500	NA	NA	<0.770	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
Bolded values were detected at concentrations above the Method Detection Limit (MDL).
mg/l - Milligrams per liter
S.U. - Standard Units
mS/cm - MilliSiemens per centimeter
mV - Millivolts
cells/mL - Cells per milliliter
< - Analyte not detected above Method Reporting Limit (MRL).
J - Estimated value due to etiher being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL.
D - Concentration is a result of a dilution.
NA - Not analyzed.

APPENDIX G (Page 6 of 6)
HISTORICAL GROUNDWATER CHEMISTRY DATA
OPERABLE UNIT 3 IN THE ALCAS SOURCE AREA
OLEAN WELL FIELD SUPERFUND SITE
OLEAN, NEW YORK

Location		CW-13				CW-13A				WW-18M			
Sample ID		OLN-CW013-F005	OLN-CW013-F006	OLN-CW013-F007	OLN-CW013-F009	OLN-CW13A-F005	OLN-CW13A-F006	OLN-CW13A-F007	OLN-CW13A-F009	OLN-WW18M-F005	OLN-WW18M-F007	OLN-WW18M-F008	OLN-WW18M-F009
Lab ID		R2304458-004	R2310645-006	R2401280-002	R2408140-006	R2304458-005	R2310645-015	R2401280-003	R2408140-005	R2304458-013	R2401280-006	R2404674-012	R2408140-009
Date		5/16/2023	11/13/2023	2/12/2024	8/21/2024	5/16/2023	11/14/2023	2/12/2024	8/21/2024	5/18/2023	2/13/2024	5/29/2024	8/21/2024
Time		14:15	14:17	14:32	9:41	15:32	9:17	14:52	8:33	8:50	8:00	9:15	11:04
Field Readings	**Units**												
pH	*S.U.*	**6.15**	**8.04**	**6.92**	**6.76**	**5.76**	**6.58**	**6.1**	**6.30**	**6.85**	**7.45**	**6.48**	**7.27**
Temperature	*C*	**15.73**	**12.2**	**10**	**12.33**	**17.54**	**10.28**	**9.5**	**11.52**	**12.27**	**11.8**	**13.64**	NA
Conductance	*mS/cm*	**0.964**	**0.891**	**0.822**	**1.420**	**0.287**	**0.324**	**0.345**	**0.621**	**0.497**	**0.537**	**0.542**	**0.817**
Dissolved Oxygen	*mg/L*	**7.91**	**9.81**	0.0	**6.73**	0.0	**1.03**	**0.12**	**7.00**	**5.41**	**4.51**	**3.80**	**3.00**
Oxidation Reduction Potential	*mV*	**-95**	**-79.9**	**-117**	**-111**	**10**	**7.7**	**16.4**	**13**	**271**	**216.3**	**230**	**71**
Field Alkalinity	*mg/L*	**280**	NA	**189**	**196**	**133**	NA	**69**	**122**	**51**	**153**	**130**	**196**
Ferrous Iron	*mg/L*	**3.28**	NA	NA	**2.60**	**5.84**	NA	NA	**1.72**	**0.06**	NA	NA	**2.6**
Static Water Level	*ft btc*	**11.95**	**14.65**	**13.24**	**14.26**	**6.13**	**9.95**	**5.37**	**6.93**	NM	NM	NM	NM
Volatile Organic Compounds (VOCs)													
Tetrachloroethene	*mg/L*	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethene	*mg/L*	**0.0005 J**	**0.0028**	**0.0027**	**0.0017**	<0.001	<0.001	<0.001	<0.001	**0.0093**	**0.011**	**0.012**	**0.012**
cis-1,2-Dichloroethene	*mg/L*	**0.0019**	**0.00096 J**	**0.00091 J**	**0.00087 J**	<0.001	<0.001	<0.001	<0.001	<0.001	**0.00032 J**	**0.00044 J**	**0.00047 J**
trans-1,2-Dichloroethene	*mg/L*	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl chloride	*mg/L*	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dissolved Gases													
Ethane	*mg/L*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	*mg/L*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	*mg/L*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Volatile Fatty Acids (VFAs)													
Acetic Acid	*mg/L*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butanoic Acid	*mg/L*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Propionic Acid	*mg/L*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals													
Arsenic	*mg/L*	<0.01	<0.01	<0.01	<0.01	**0.007 J**	**0.017**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Iron	*mg/L*	**3.79**	**2.06**	**6.23**	**3.12**	**5.55**	**10.5**	**3.67**	**3.06**	<0.1	<0.1	<0.1	<0.1
Manganese	*mg/L*	**0.863**	**0.705**	**0.362**	**0.346**	**3.35**	**3.16**	**2.9**	**3.89**	**0.007 J**	**0.011**	**0.01 J**	**0.01 J**
General Chemistry													
Sulfate	*mg/L*	NA	NA	**33.4**	NA	NA	NA	**80.9**	NA	NA	**23.6**	NA	NA
Chemical Oxygen Demand	*mg/L*	**28.6**	**14.5**	**13.2**	**8.3**	**26.2**	**27.0**	**22.6**	**25.7**	<5.0	<5.0	NA	<5.0
Dechlorinating Bacteria													
Dehalococcoides (DHC)	*cells/mL*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
tceA Reductase	*cells/mL*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Reductase	*cells/mL*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride Reductase	*cells/mL*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

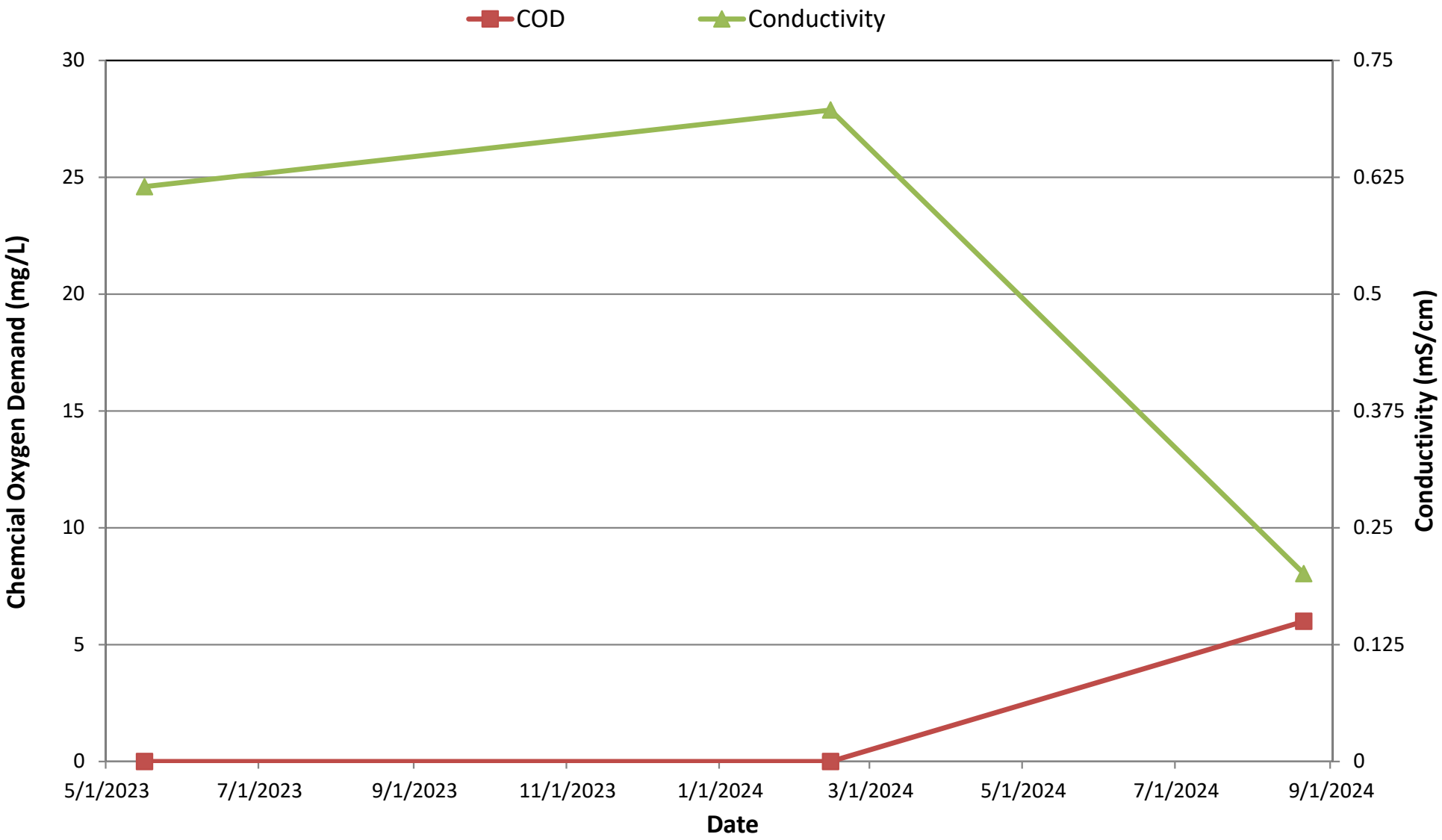
Notes:
Bolded values were detected at concentrations above the Method Detection Limit (MDL).
mg/l - Milligrams per liter
S.U. - Standard Units
mS/cm - MilliSiemens per centimeter
mV - Millivolts
cells/mL - Cells per milliliter

< - Analyte not detected above Method Reporting Limit (MRL).
J - Estimated value due to etiher being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL.
D - Concentration is a result of a dilution.
NA - Not analyzed.
NM - Not Measured

APPENDIX H

TIME TREND CHARTS

RU-8 Electron Donors (Upgradient)



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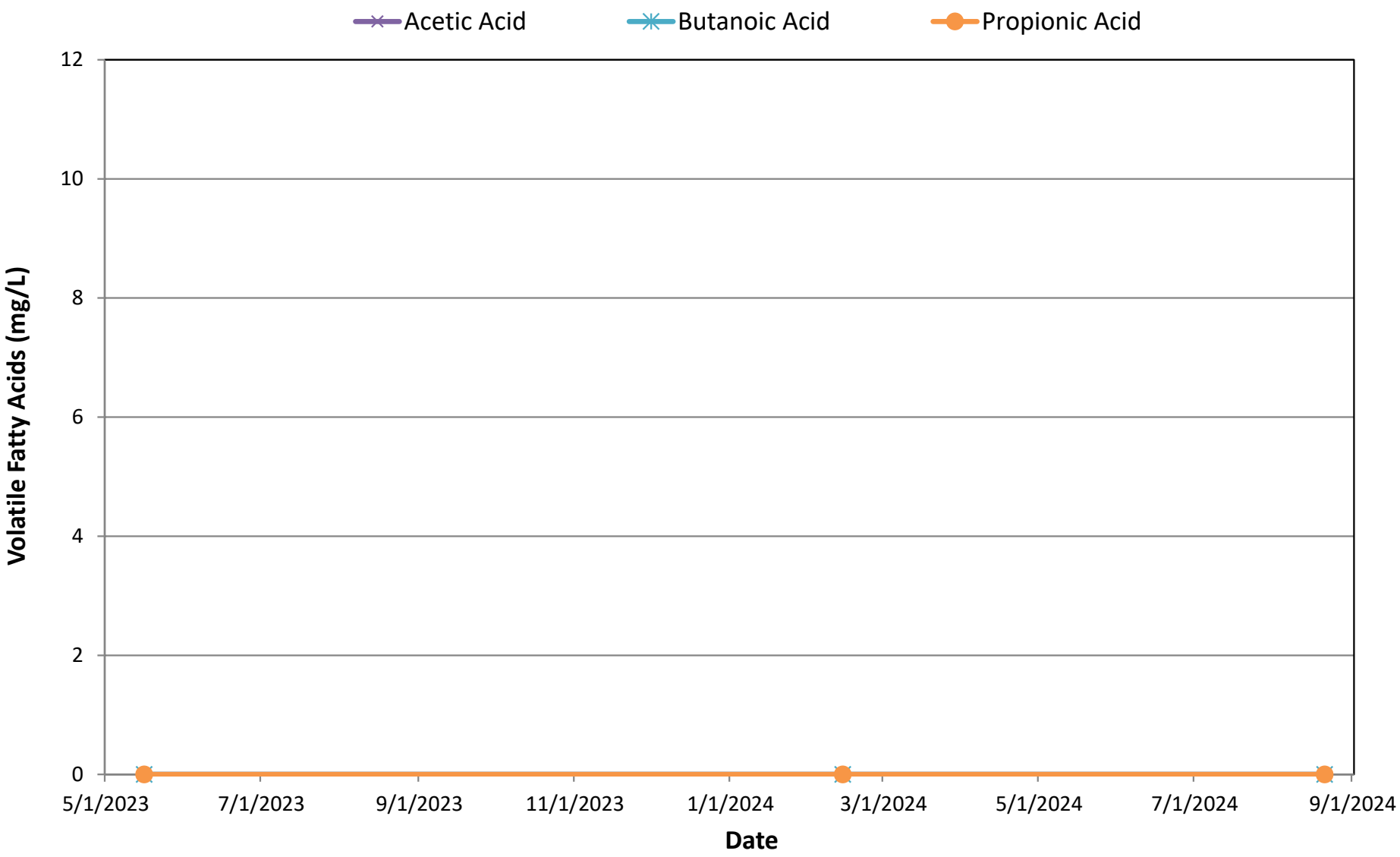
TREND CHART FOR ELECTRON DONORS PART 1 - RU-8 (UPGRADIENT)

PROJECT NO:	300-082	CHART:	1
DATE:	1/3/2025		

RU-8 Electron Donors (Upgradient)



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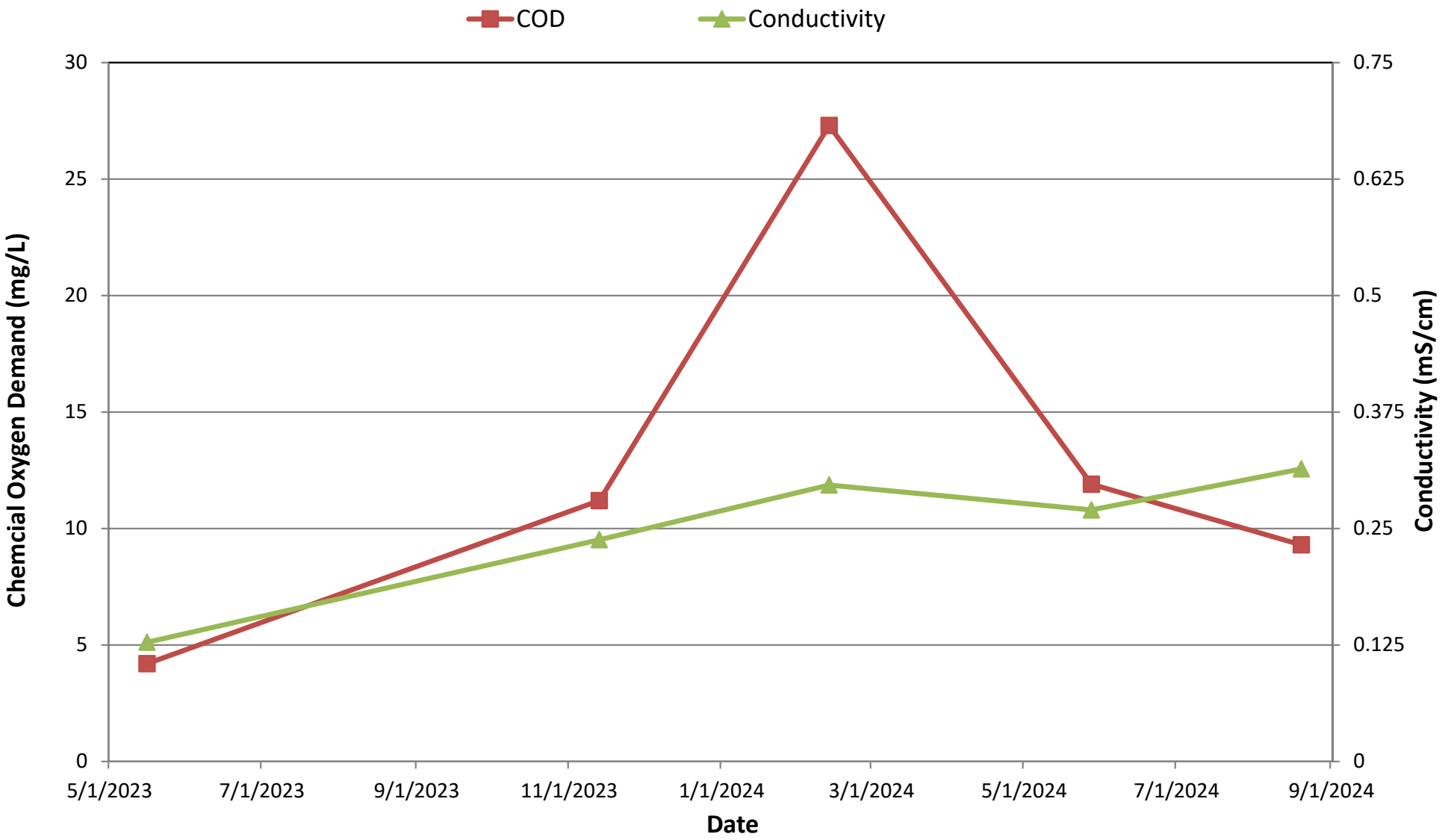
TREND CHART FOR ELECTRON DONORS PART 2 - RU-8 (UPGRADIENT)

PROJECT NO:	300-082
DATE:	1/3/2025
CHART:	2

RU-15 Electron Donors (Upgradient)



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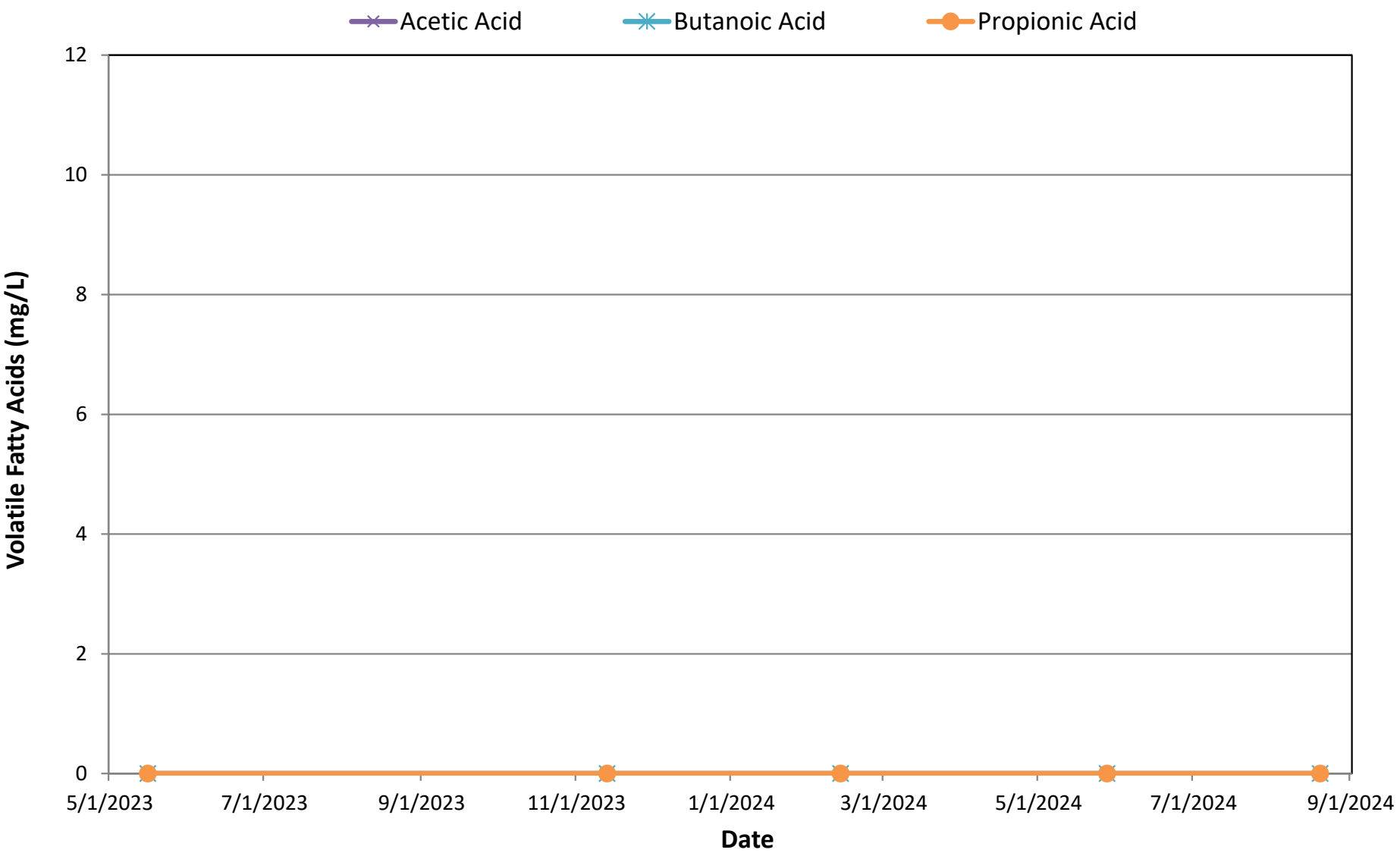
TREND CHART FOR ELECTRON DONORS PART 1 - RU-15 (UPGRADIENT)

PROJECT NO:	300-082	CHART:	3
DATE:	1/3/2025		

RU-15 Electron Donors (Upgradient)



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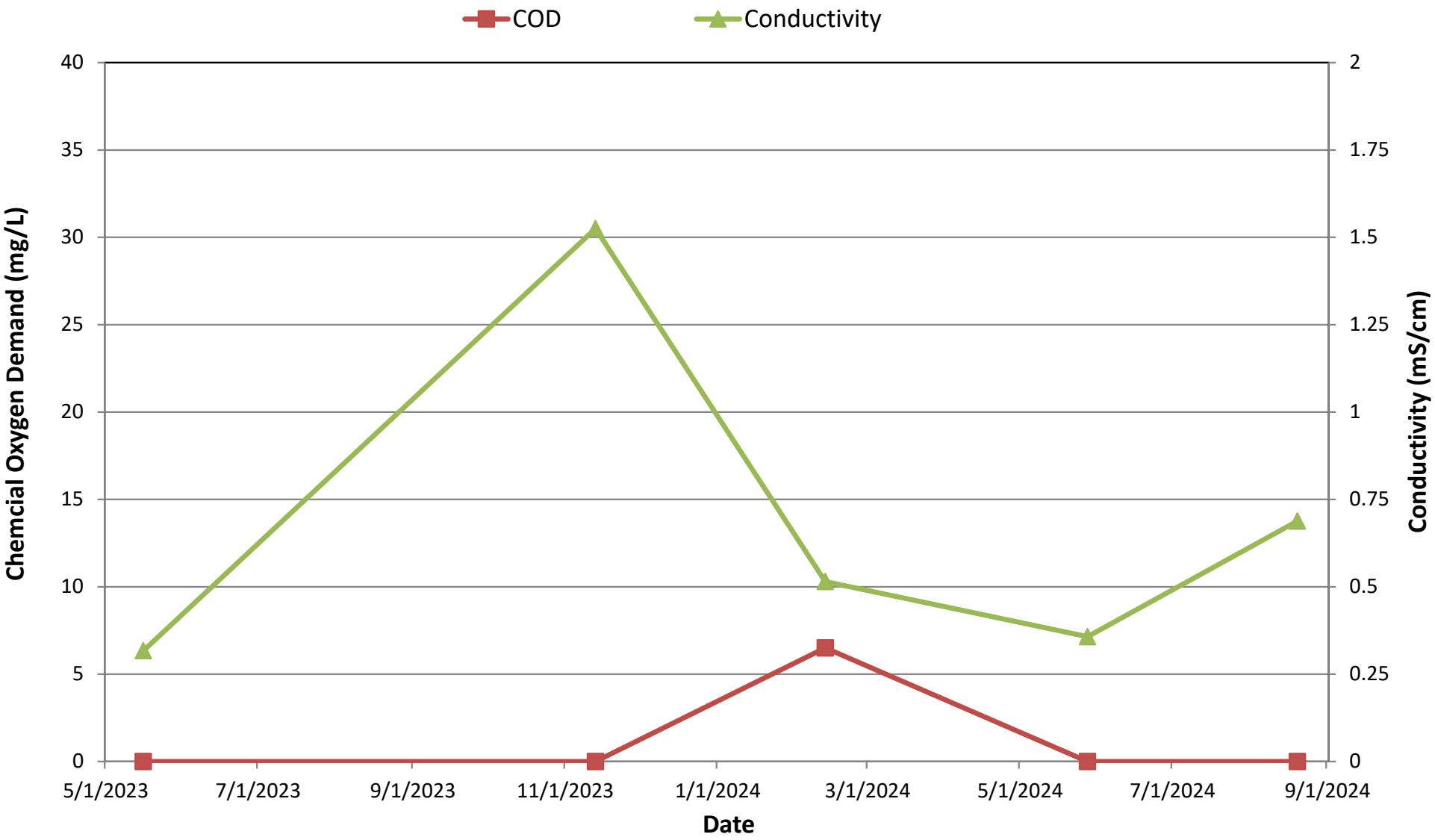
TREND CHART FOR ELECTRON DONORS PART 2 - RU-15 (UPGRADIENT)

PROJECT NO:	300-082	CHART:	4
DATE:	1/3/2025		

RU-9 Electron Donors (Treatment Area)



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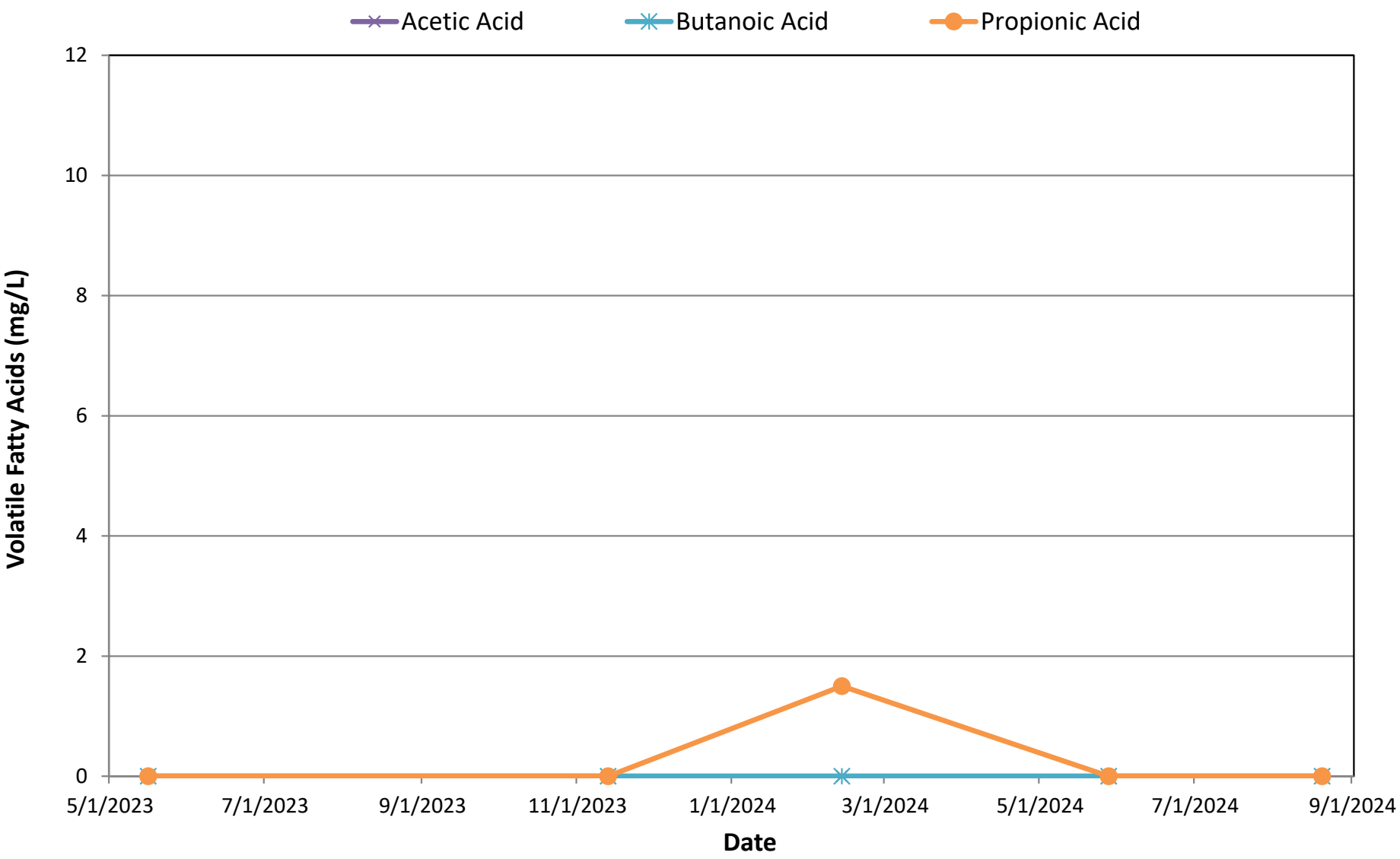
TREND CHART FOR ELECTRON DONORS PART 1 - RU-9 (TREATMENT AREA)

PROJECT NO:	300-082	CHART:	5
DATE:	1/3/2025		

RU-9 Electron Donors (Treatment Area)



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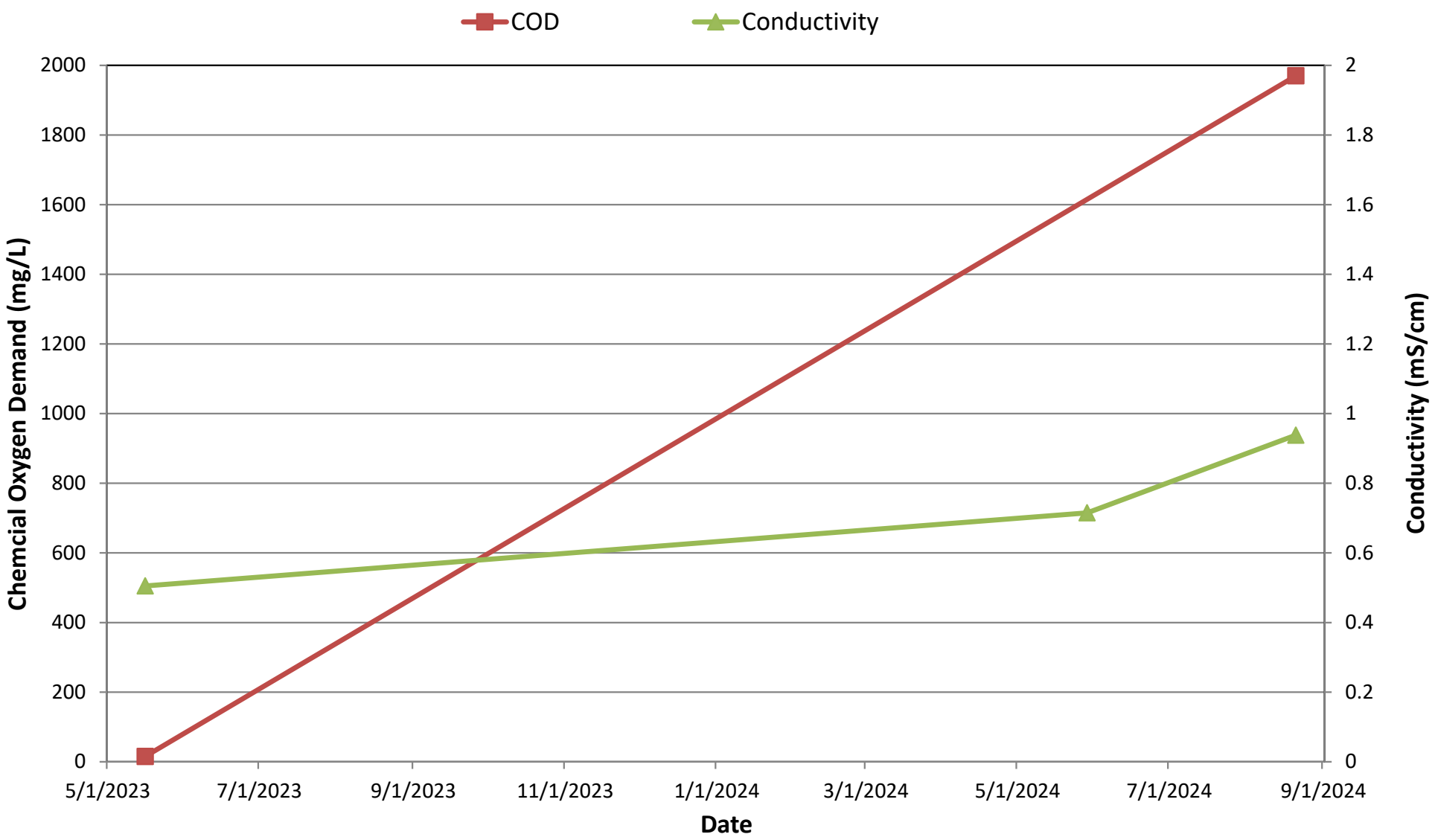
TREND CHART FOR ELECTRON DONORS PART 2 - RU-9 (TREATMENT AREA)

PROJECT NO: 300-082	CHART: 6
DATE: 1/3/2025	

RU-10 Electron Donors (Treatment Area)



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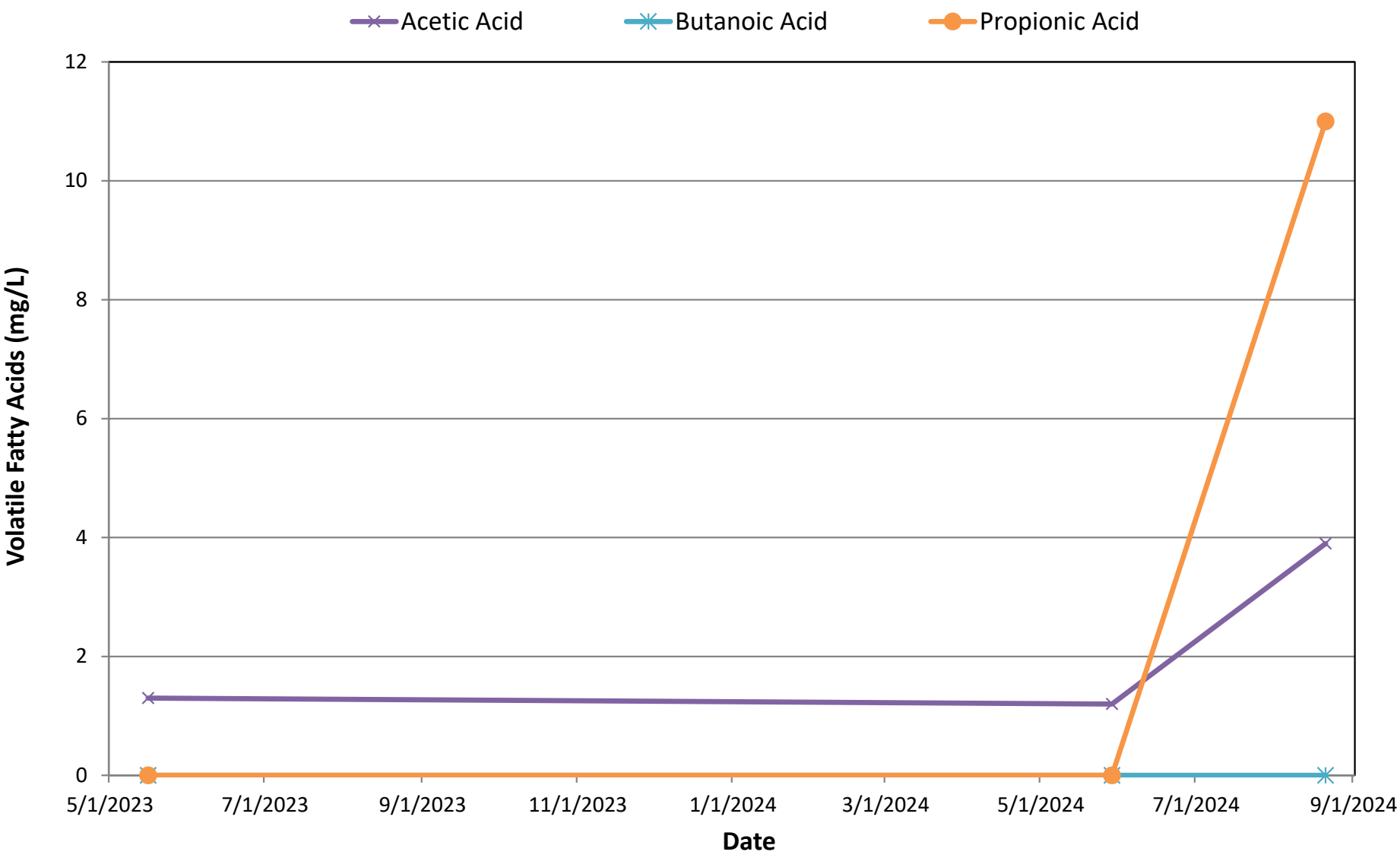
TREND CHART FOR ELECTRON DONORS PART 1 - RU-10 (TREATMENT AREA)

PROJECT NO:	300-082	CHART:	7
DATE:	1/3/2025		

RU-10 Electron Donors (Treatment Area)



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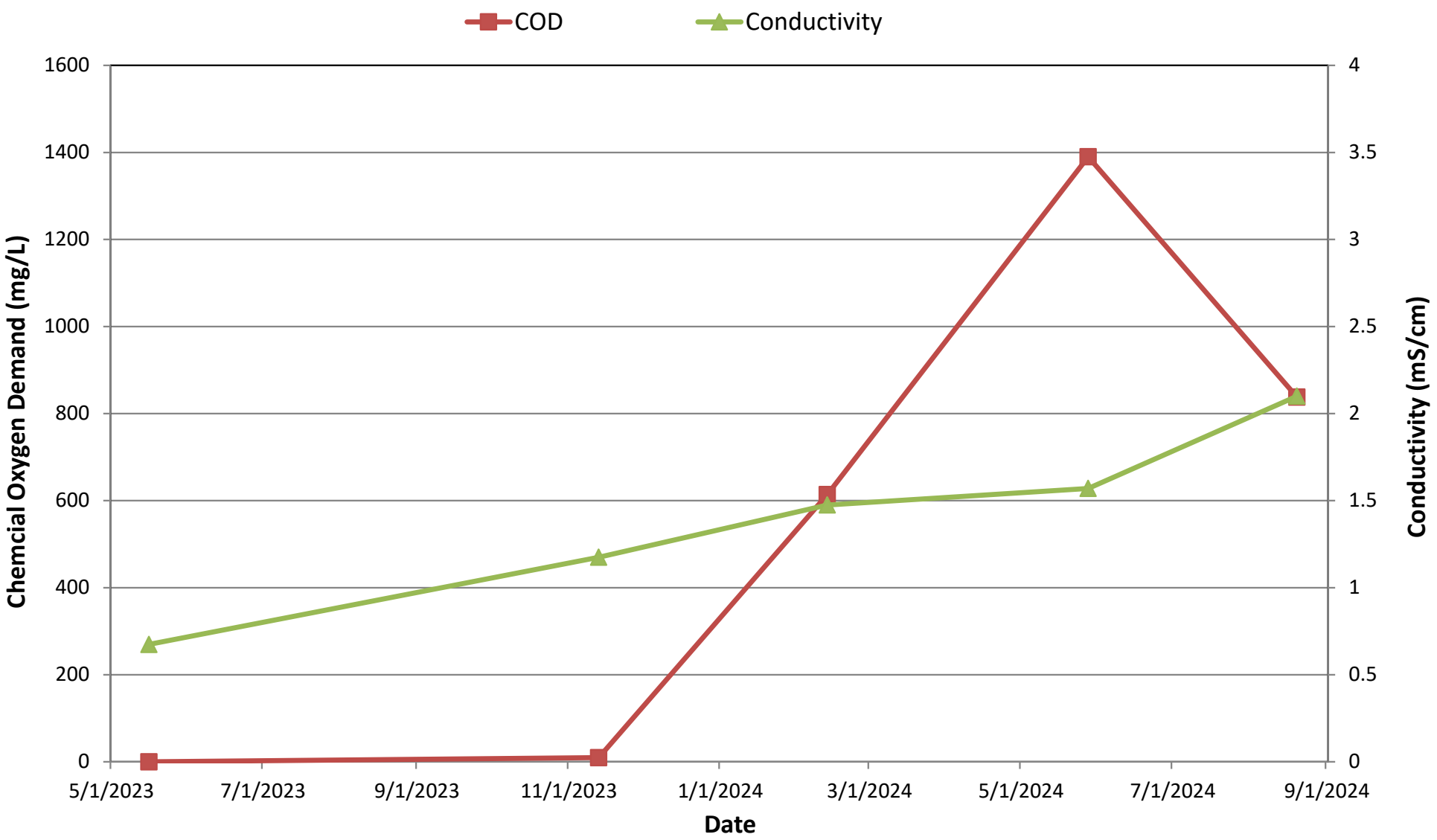
TREND CHART FOR ELECTRON DONORS PART 2 - RU-10 (TREATMENT AREA)

PROJECT NO:	300-082	CHART:	8
DATE:	1/3/2025		

RU-19 Electron Donors (Treatment Area)



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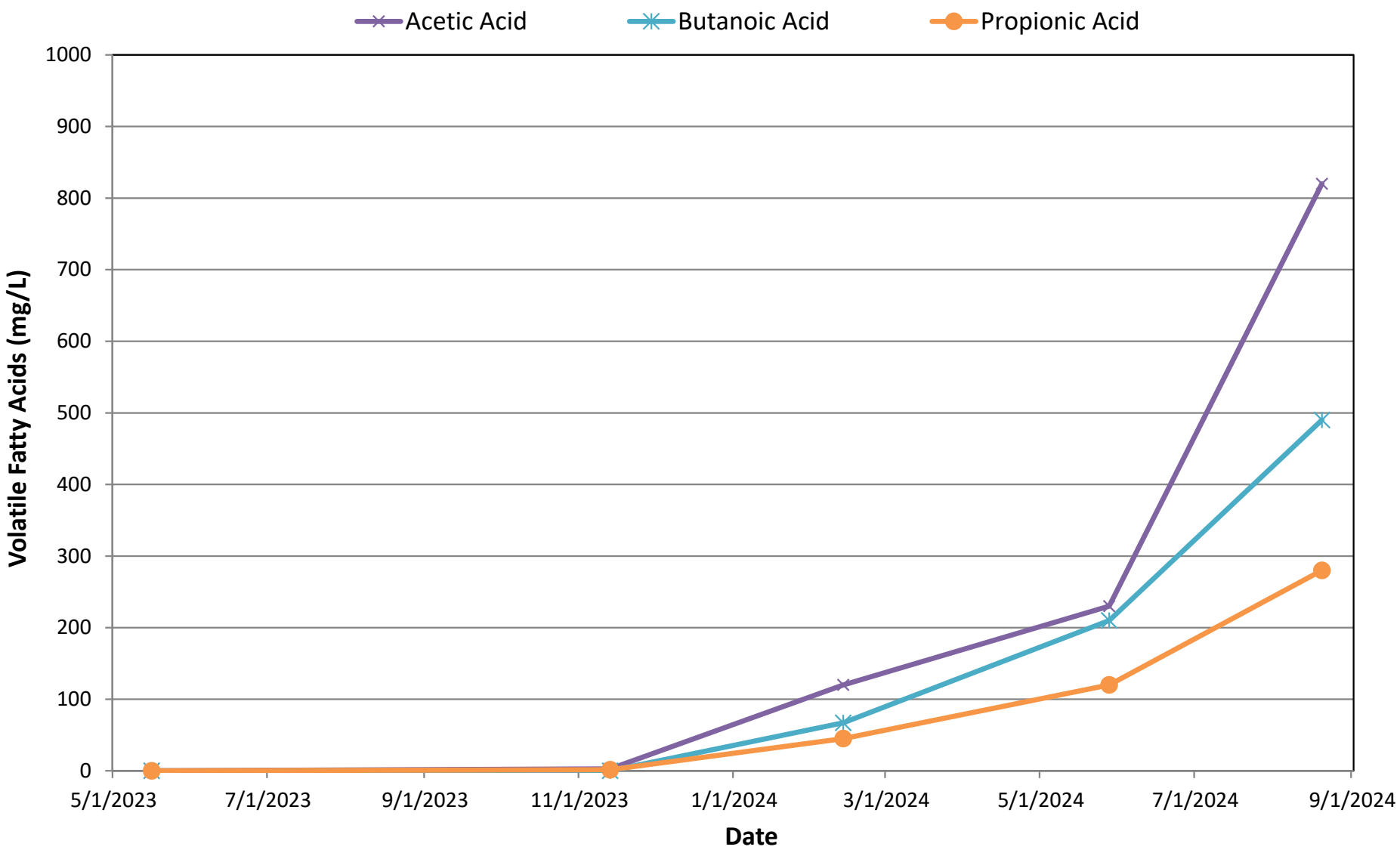
PROJECT NO:	300-082	CHART:	9
DATE:	1/3/2025		

RU-19 Electron Donors (Treatment Area)



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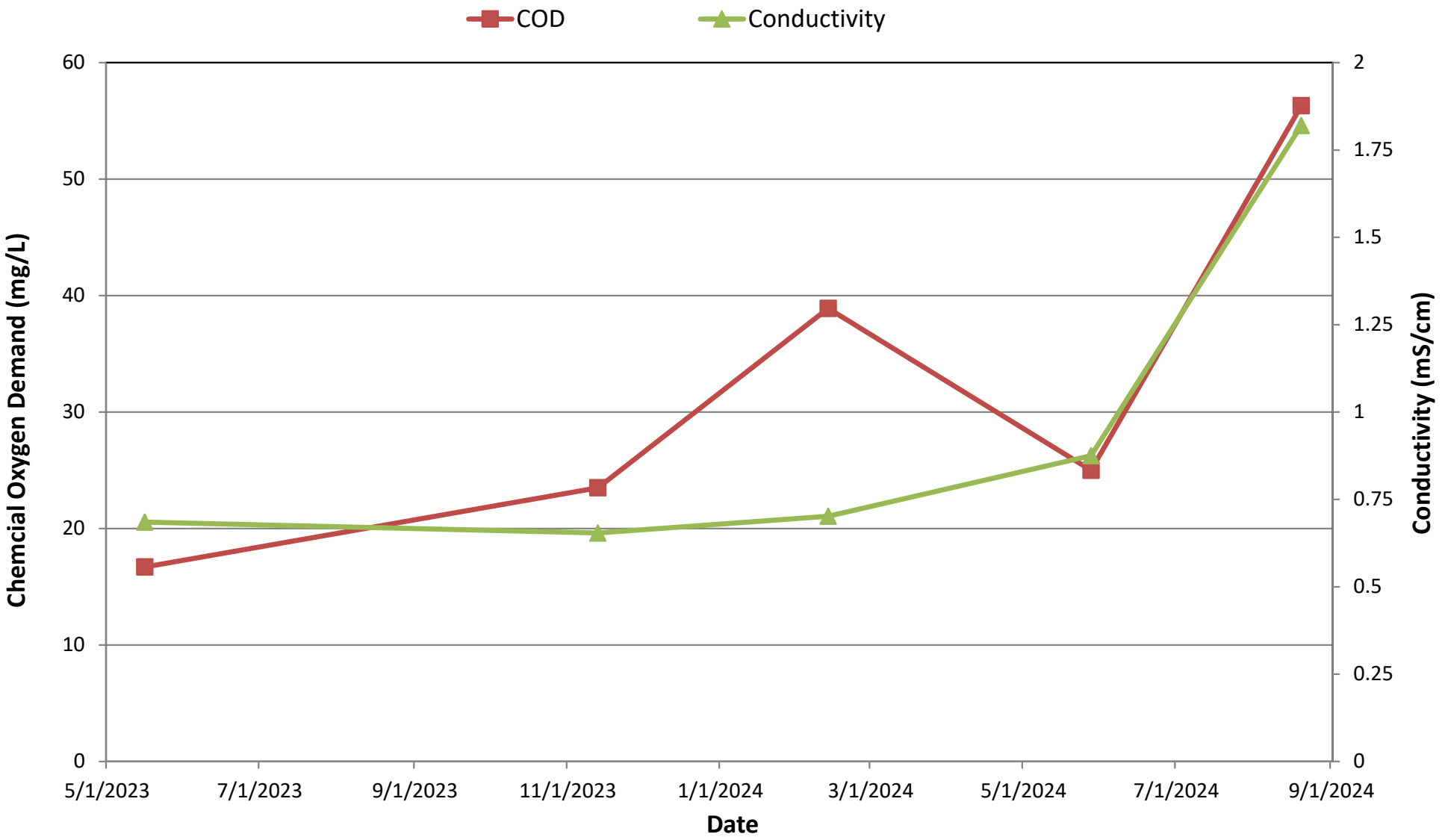
TREND CHART FOR ELECTRON DONORS PART 2 - RU-19 (TREATMENT AREA)

PROJECT NO:	300-082	CHART:	10
DATE:	1/3/2025		

RU-20 Electron Donors (Treatment Area)



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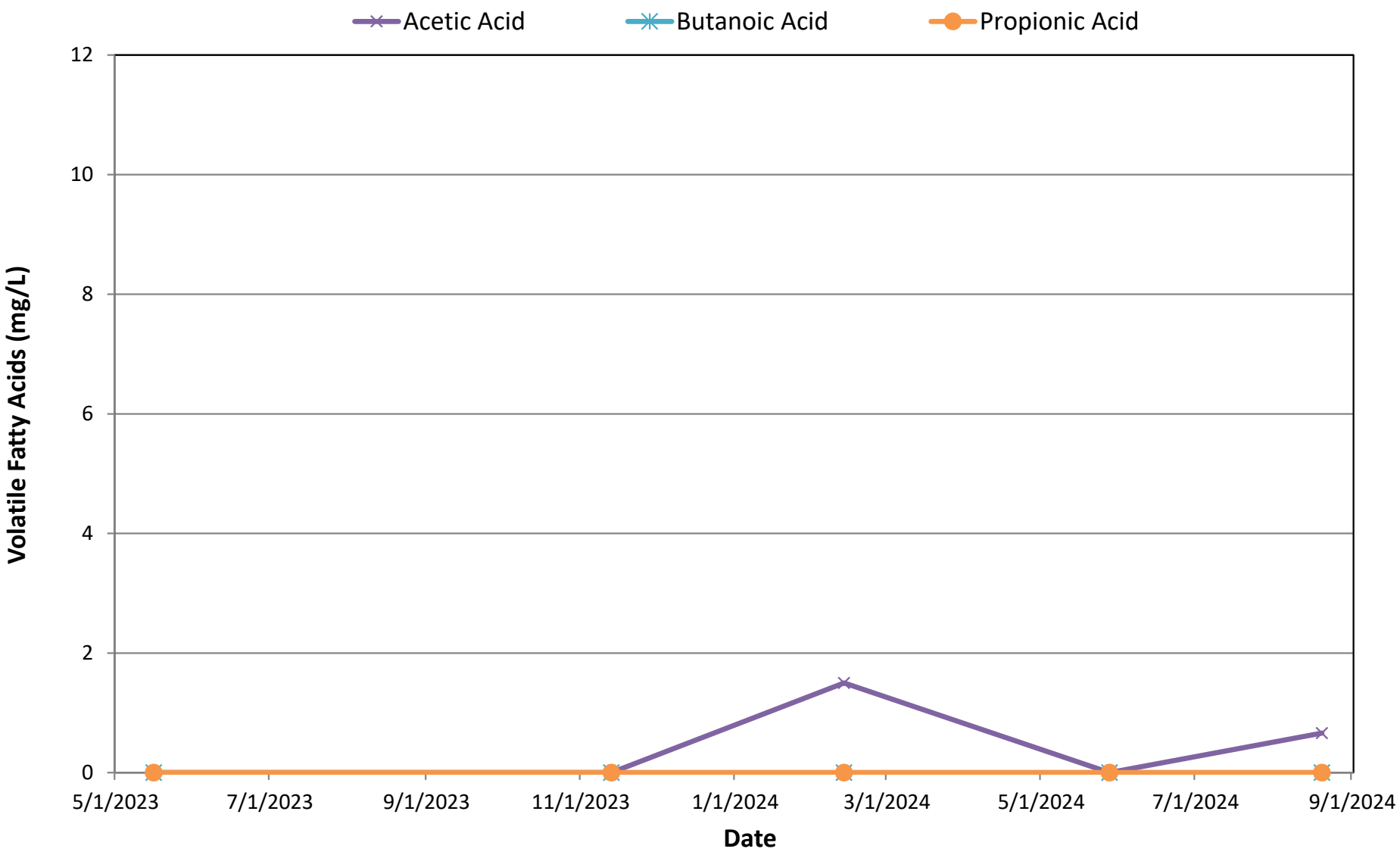
TREND CHART FOR ELECTRON DONORS PART 1 - RU-20 (TREATMENT AREA)

PROJECT NO:	300-082	CHART:	11
DATE:	1/3/2025		

RU-20 Electron Donors (Treatment Area)



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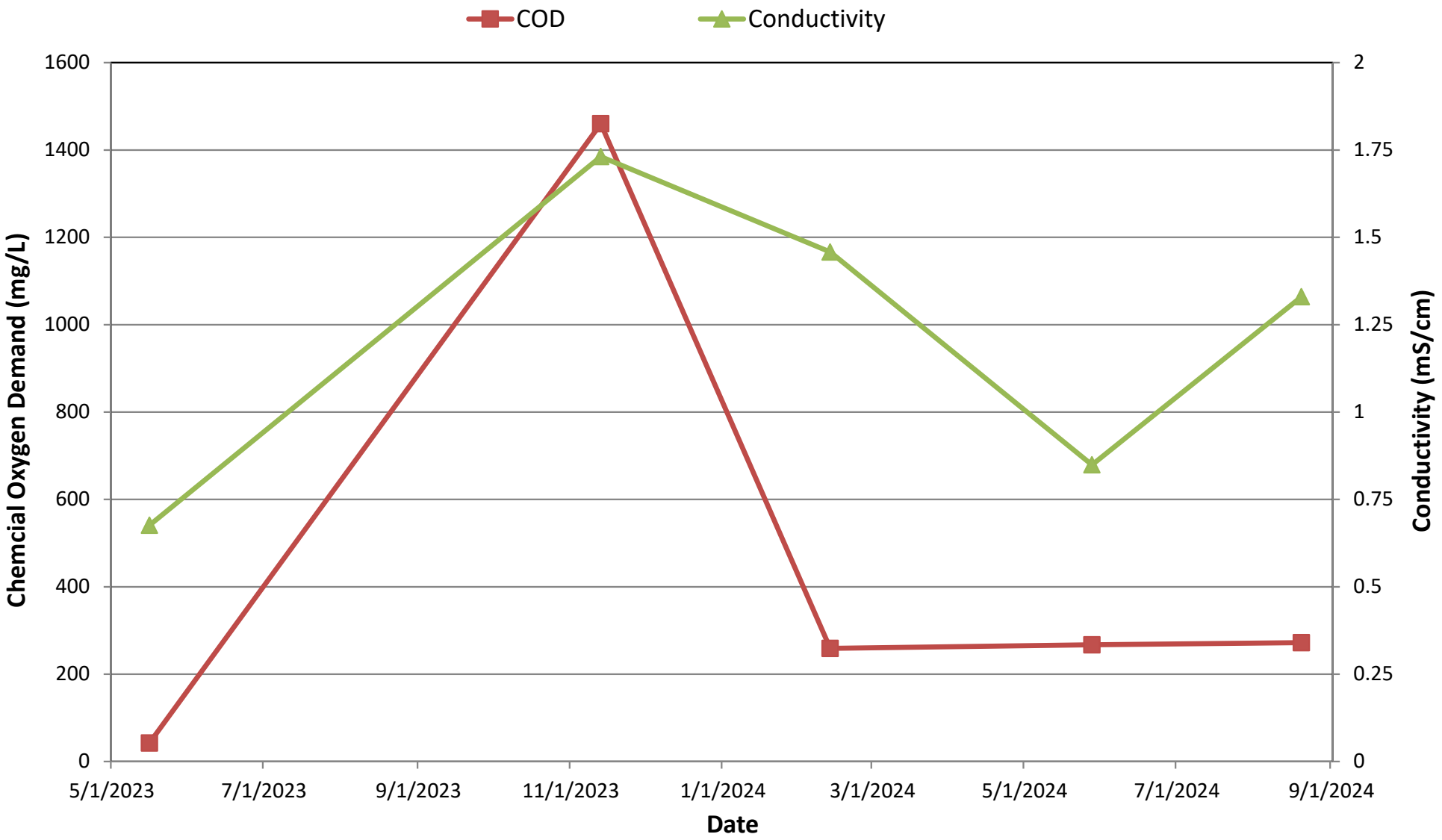
TREND CHART FOR ELECTRON DONORS PART 2 - RU-20 (TREATMENT AREA)

PROJECT NO:	300-082	CHART:	12
DATE:	1/3/2025		

RU-21 Electron Donors (Treatment Area)



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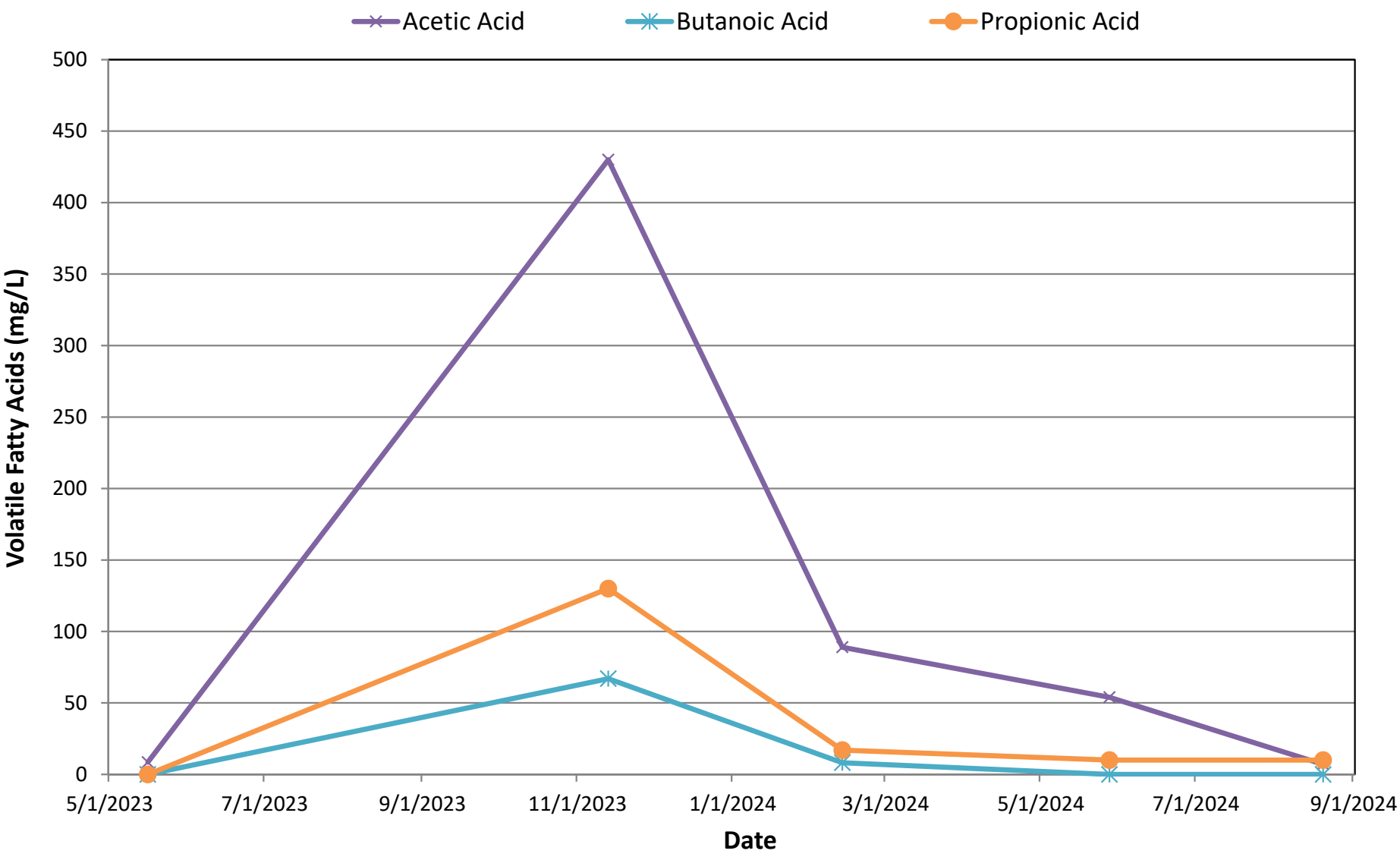
TREND CHART FOR ELECTRON DONORS PART 1 - RU-21 (TREATMENT AREA)

PROJECT NO:	300-082
DATE:	1/3/2025
CHART:	13

RU-21 Electron Donors (Treatment Area)



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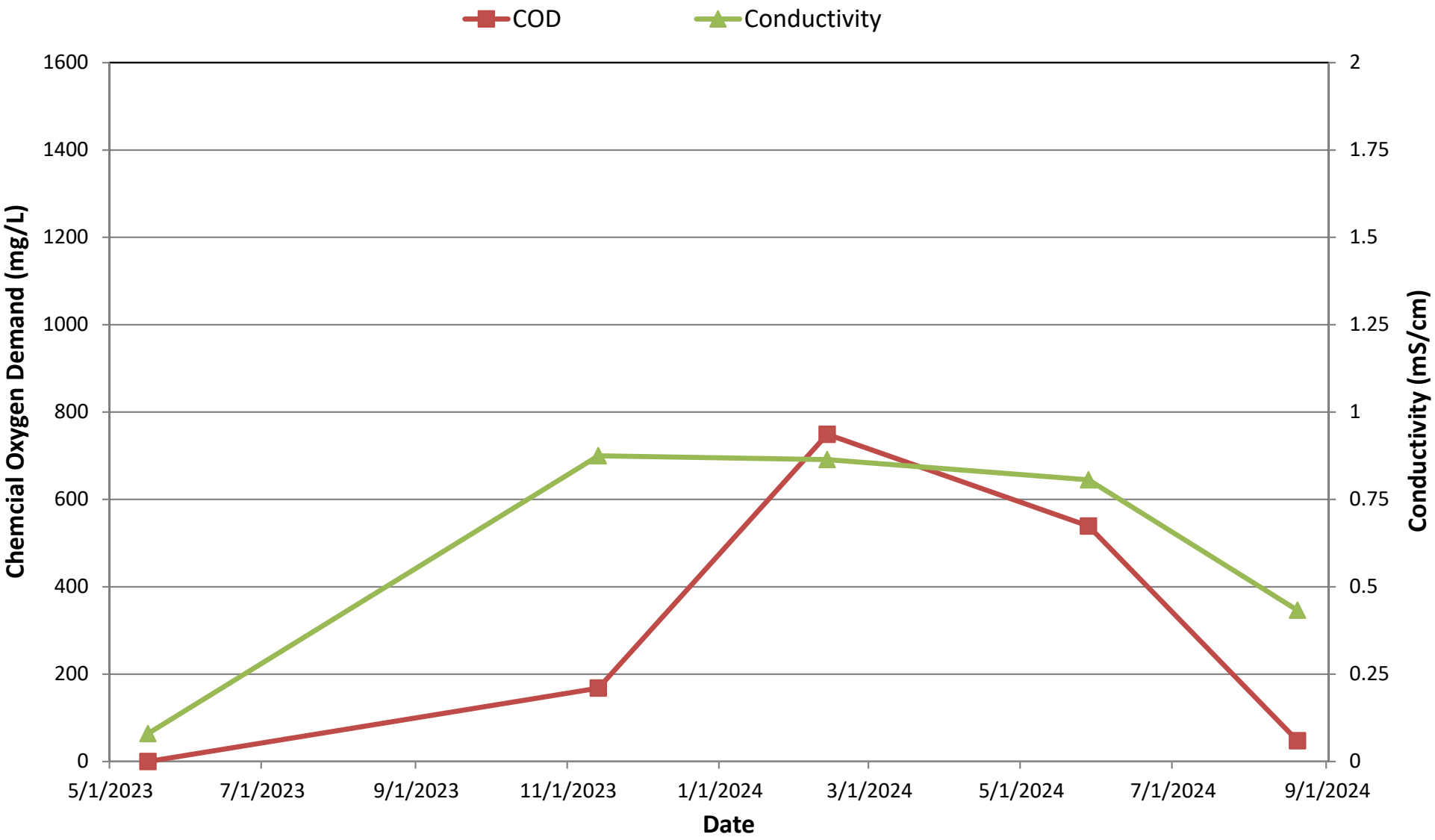
TREND CHART FOR ELECTRON DONORS PART 2 - RU-21 (TREATMENT AREA)

PROJECT NO:	300-082	CHART:	14
DATE:	1/3/2025		

RU-27A Electron Donors (Treatment Area)



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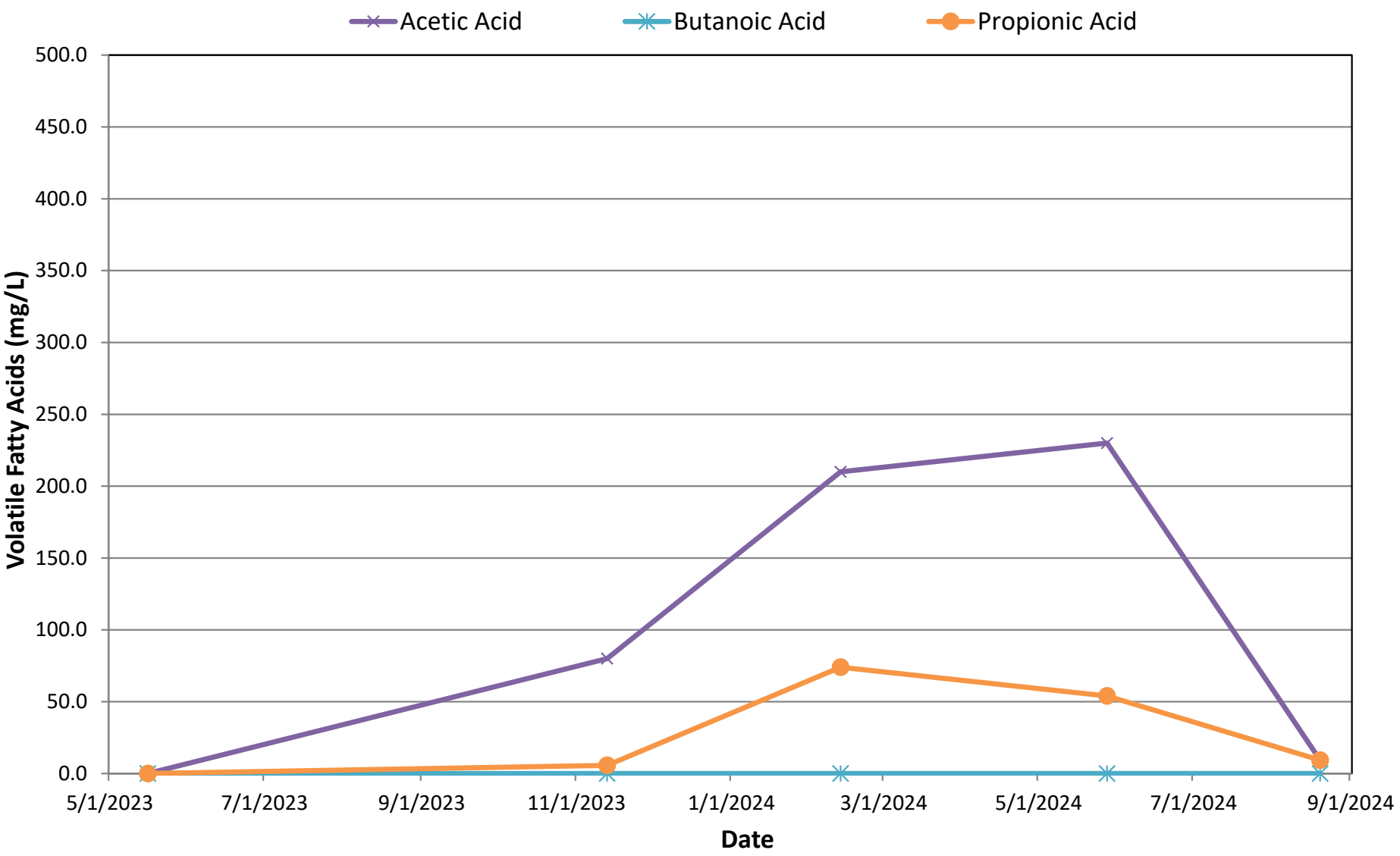
TREND CHART FOR ELECTRON DONORS PART 1 - RU-27A (TREATMENT AREA)

PROJECT NO:	300-082	CHART:	15
DATE:	1/3/2025		

RU-27A Electron Donors (Treatment Area)



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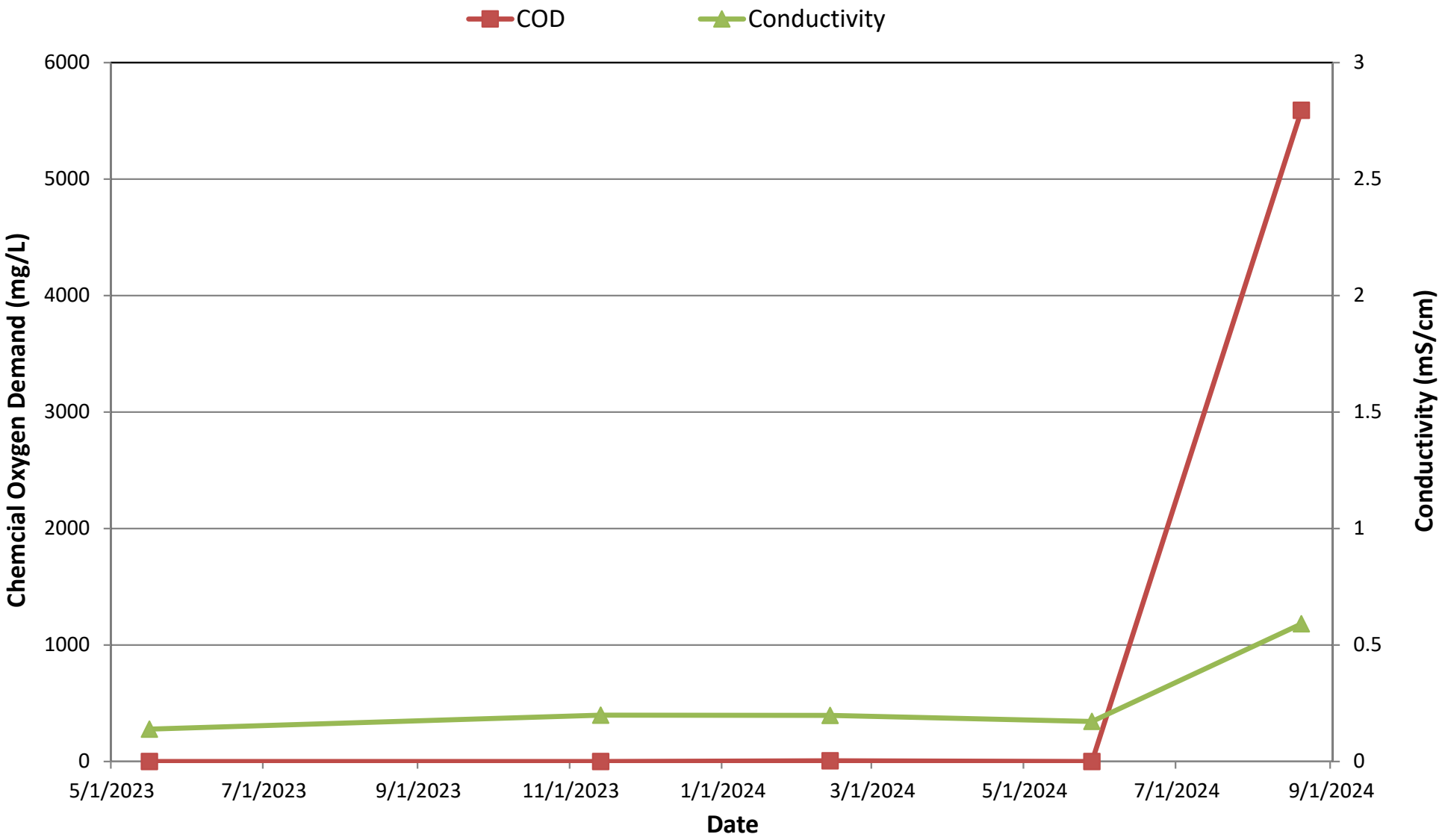
TREND CHART FOR ELECTRON DONORS PART 2 - RU-27A (TREATMENT AREA)

PROJECT NO:	300-082	CHART:	16
DATE:	1/3/2025		

RU-28 Electron Donors (Treatment Area)



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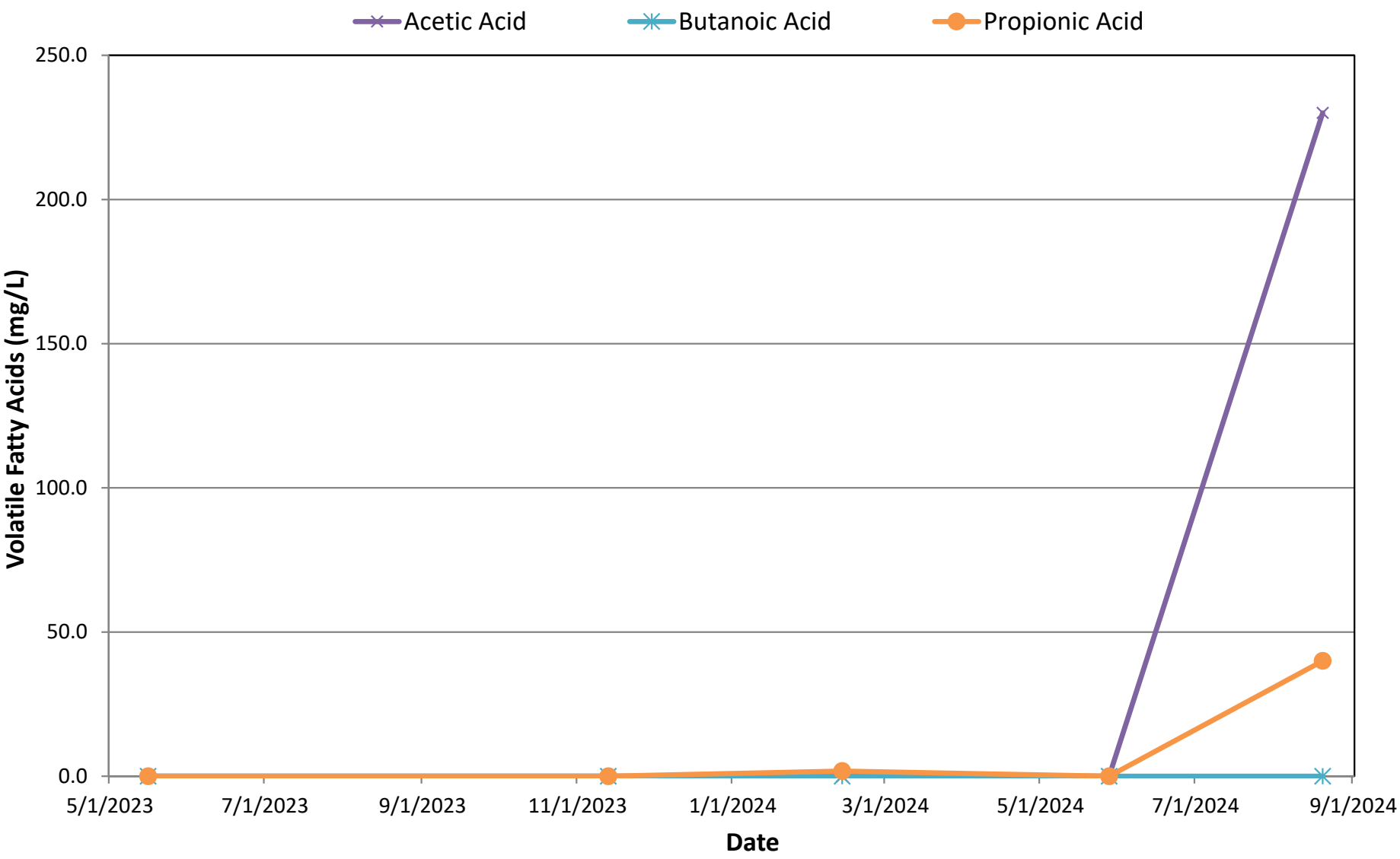
TREND CHART FOR ELECTRON DONORS PART 1 - RU-28 (TREATMENT AREA)

PROJECT NO:	300-082	CHART:	17
DATE:	1/3/2025		

RU-28 Electron Donors (Treatment Area)



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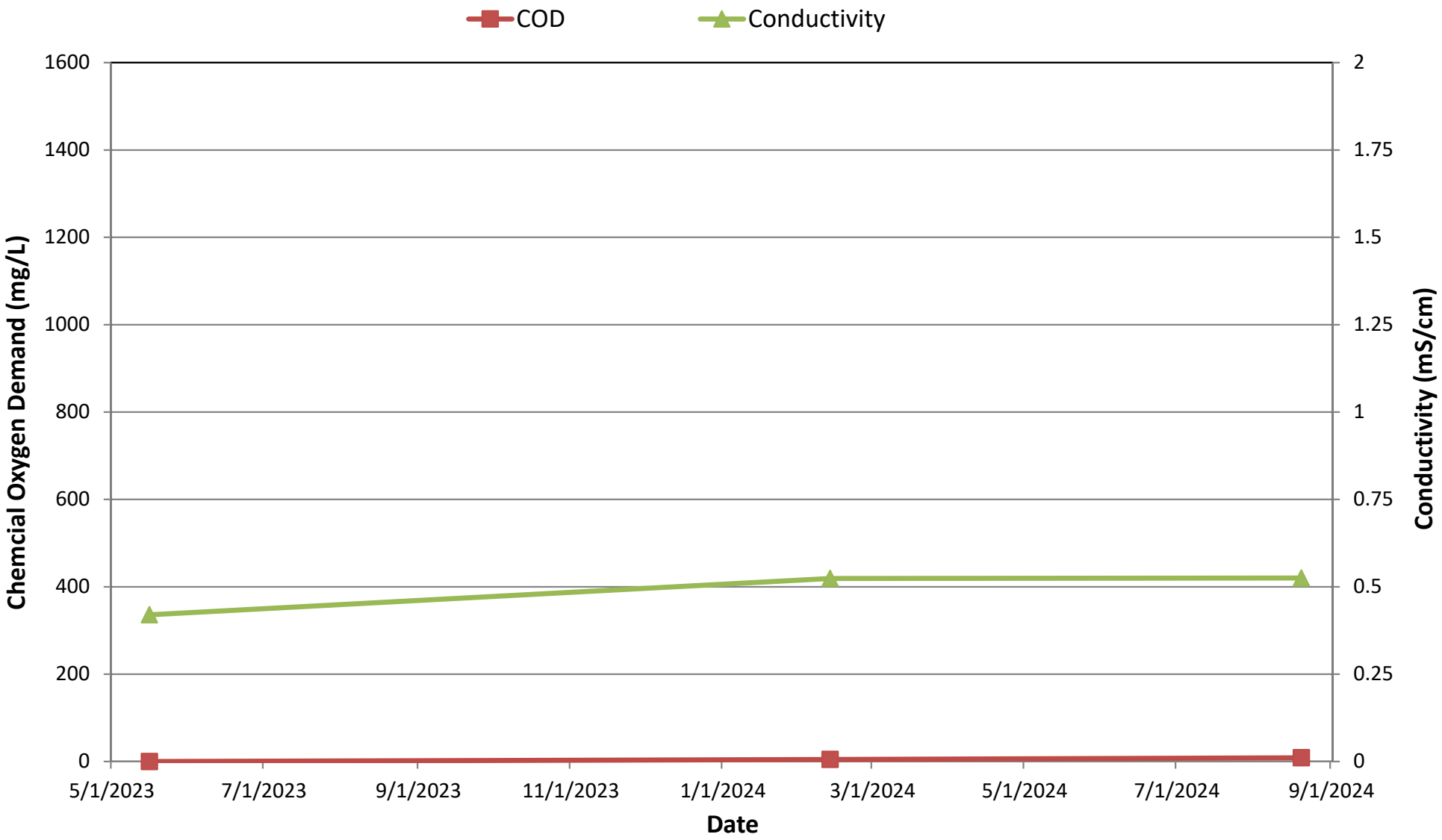
TREND CHART FOR ELECTRON DONORS PART 2 - RU-28 (TREATMENT AREA)

PROJECT NO:	300-082	CHART:	18
DATE:	1/3/2025		

RU-11 Electron Donors (Downgradient)



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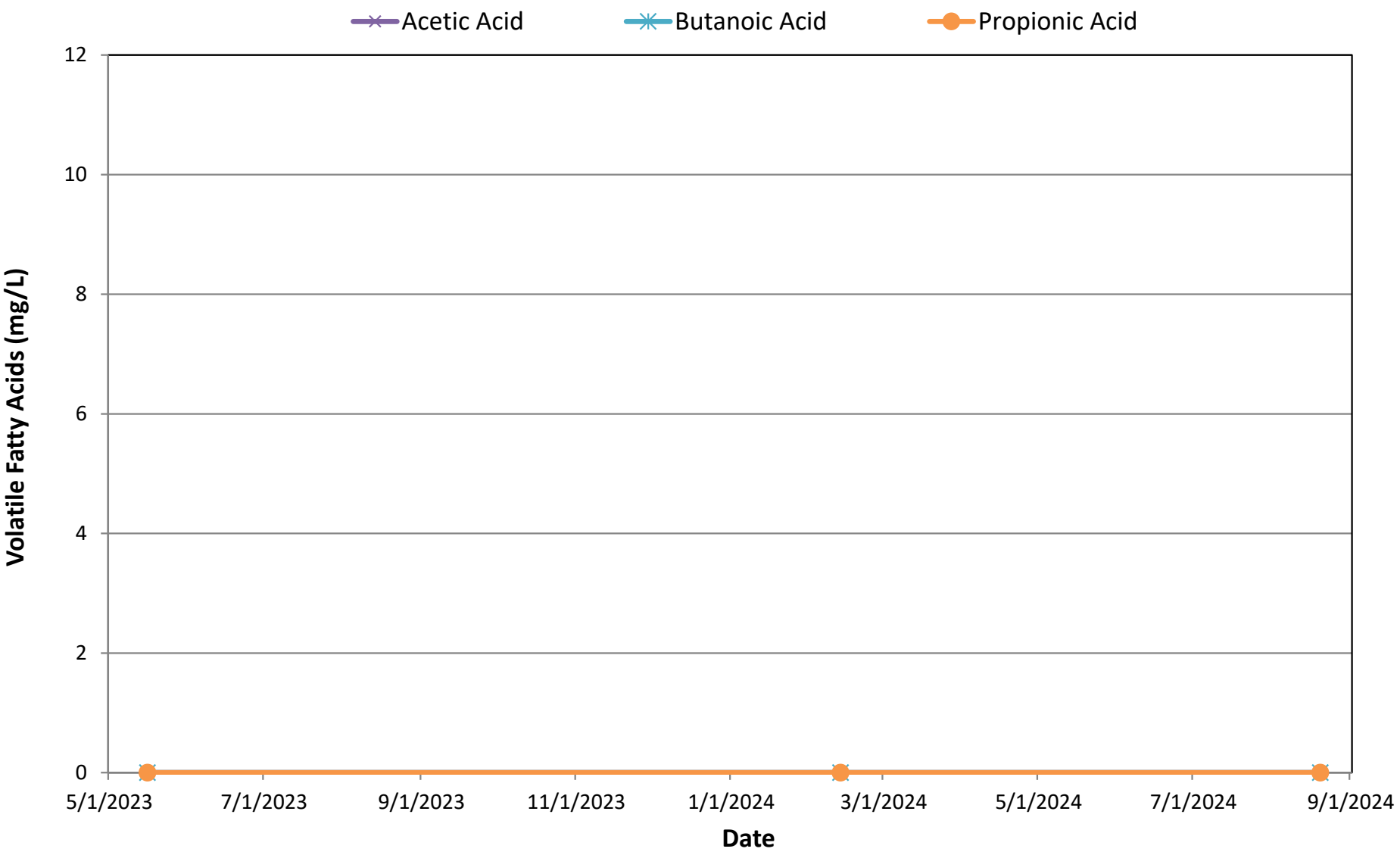
TREND CHART FOR ELECTRON DONORS PART 1 - RU-11 (DOWNGRADIENT)

PROJECT NO:	300-082	CHART:	19
DATE:	1/3/2025		

RU-11 Electron Donors (Downgradient)



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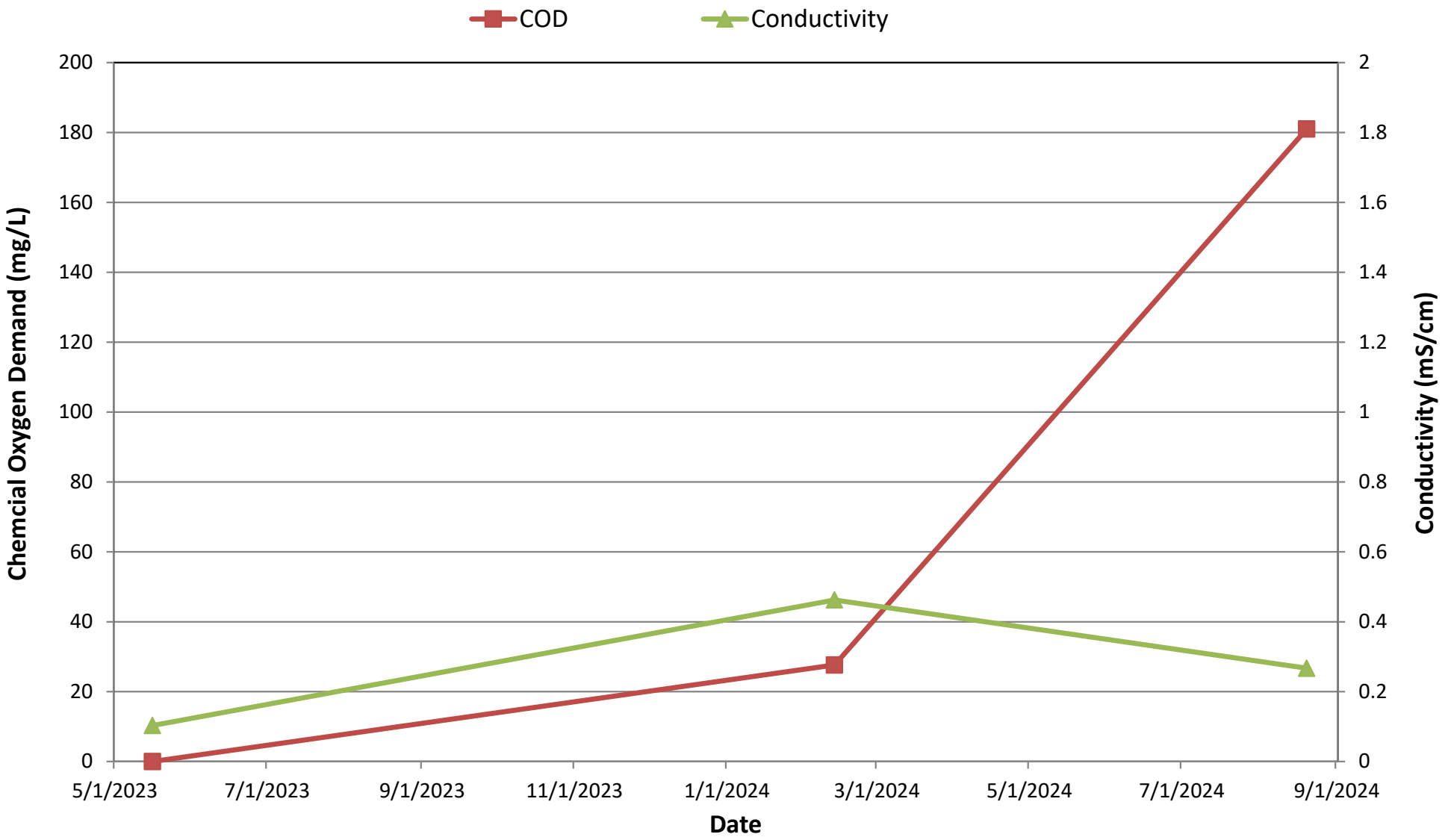
TREND CHART FOR ELECTRON DONORS PART 2 - RU-11 (DOWNGRADIENT)

PROJECT NO:	300-082	CHART:	20
DATE:	1/3/2025		

RU-16 Electron Donors (Downgradient)



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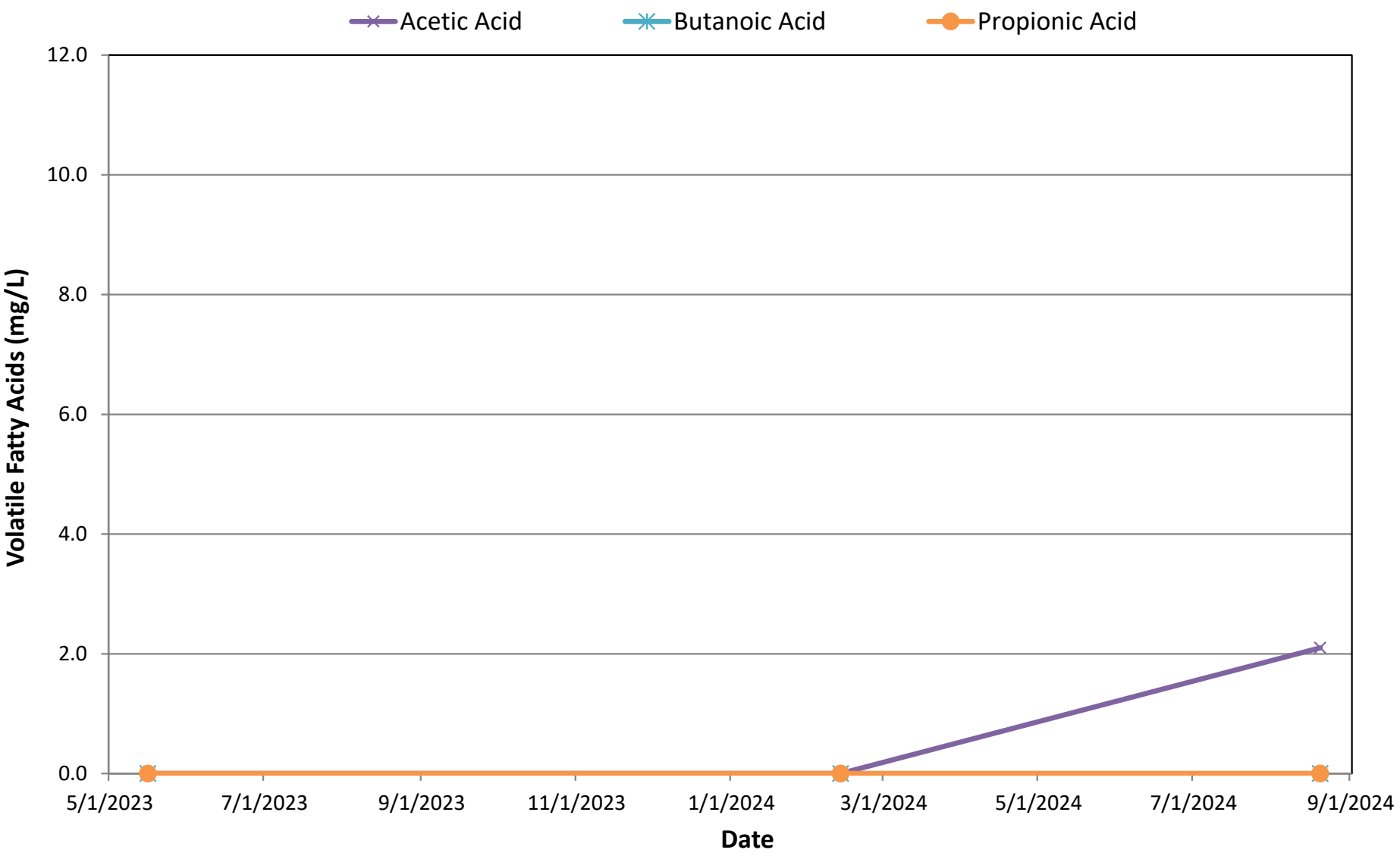
TREND CHART FOR ELECTRON DONORS PART 1 - RU-16 (DOWNGRADIENT)

PROJECT NO:	300-082	CHART:	21
DATE:	1/3/2025		

RU-16 Electron Donors (Downgradient)



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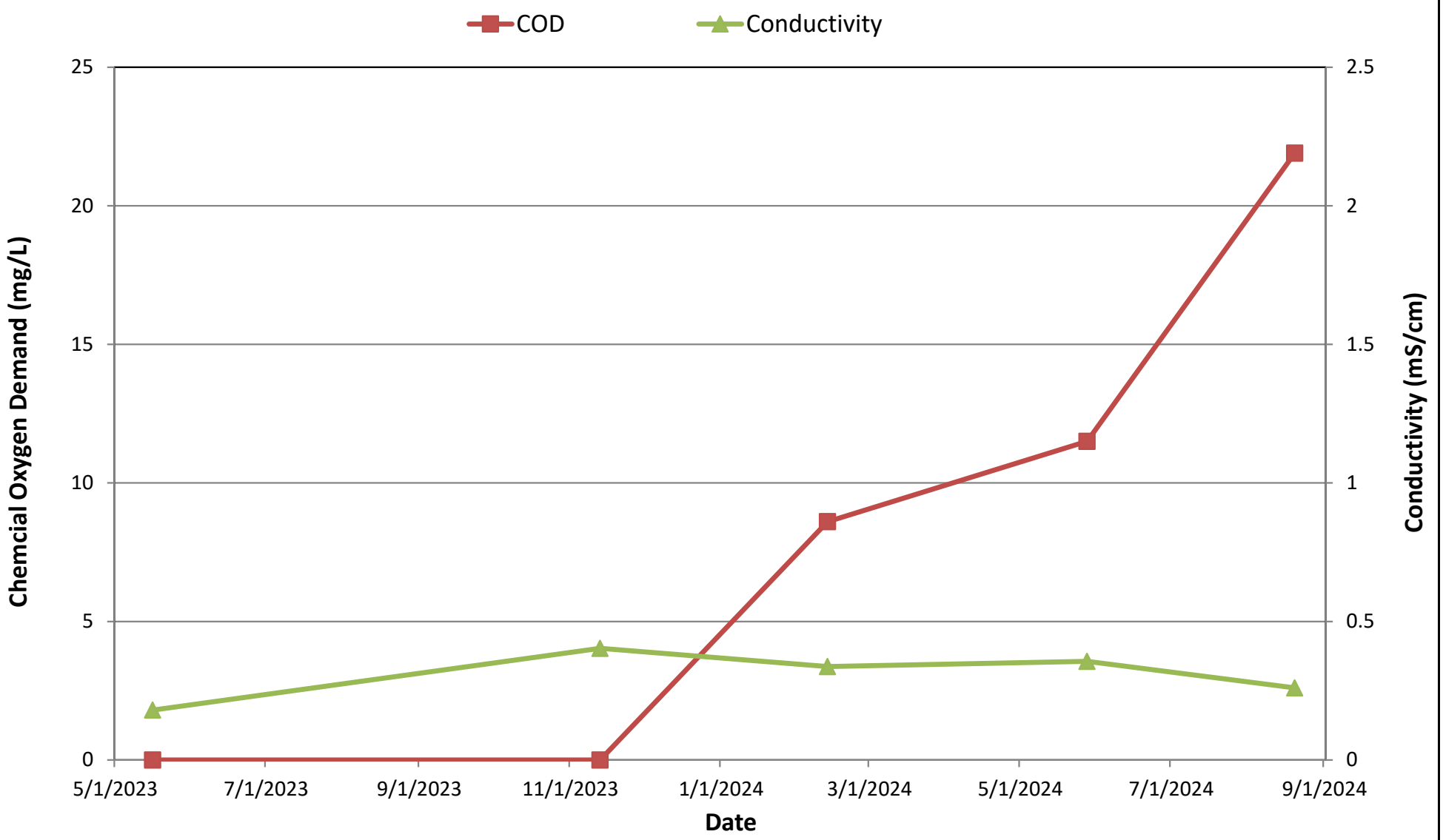
TREND CHART FOR ELECTRON DONORS PART 2 - RU-16 (DOWNGRADIENT)

PROJECT NO:	300-082	CHART:	22
DATE:	1/3/2025		

UA-2 Electron Donors (Downgradient)



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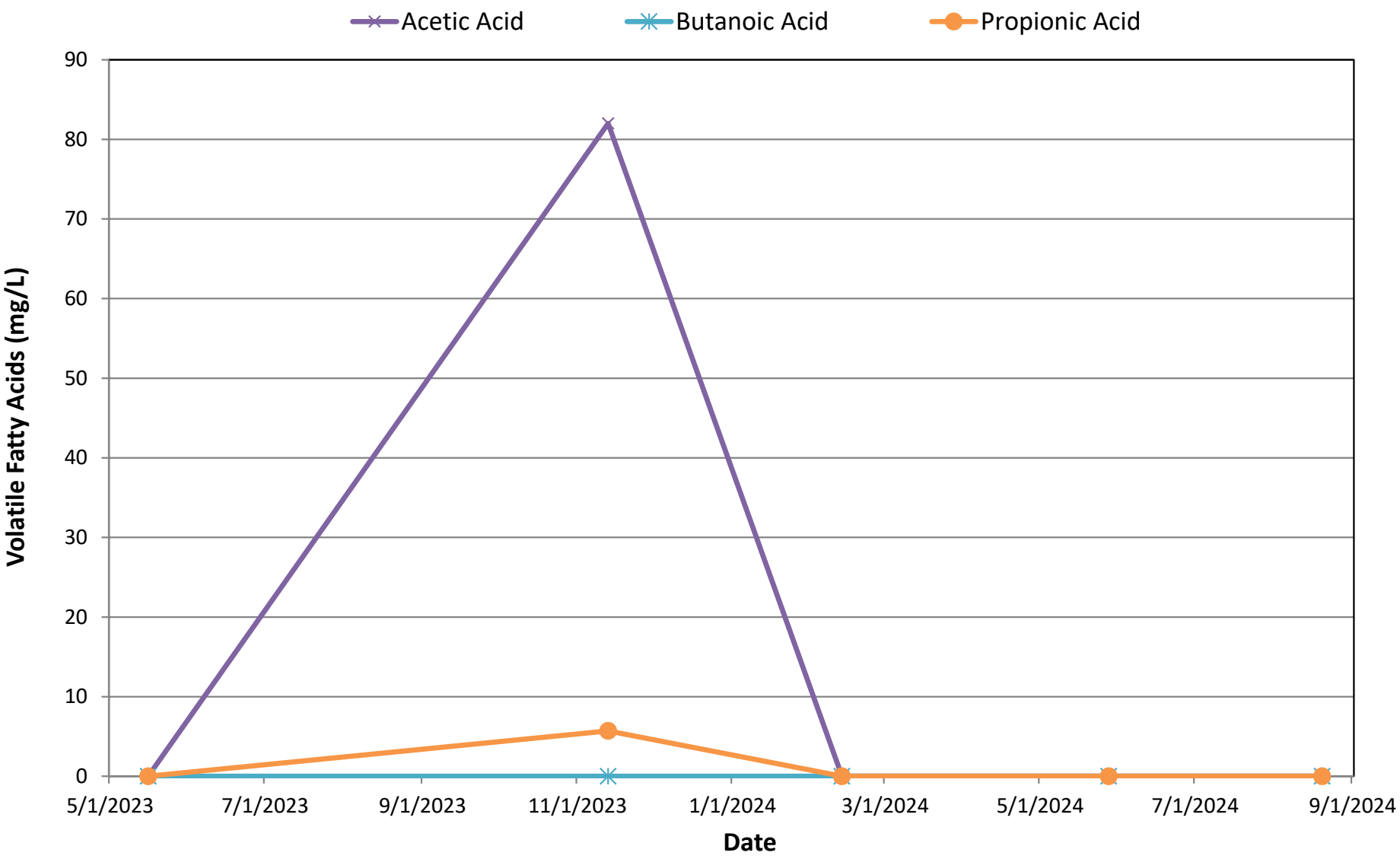
TREND CHART FOR ELECTRON DONORS PART 1 - UA-2 (DOWNGRADIENT)

PROJECT NO:	300-082	CHART:	23
DATE:	1/3/2025		

UA-2 Electron Donors (Downgradient)



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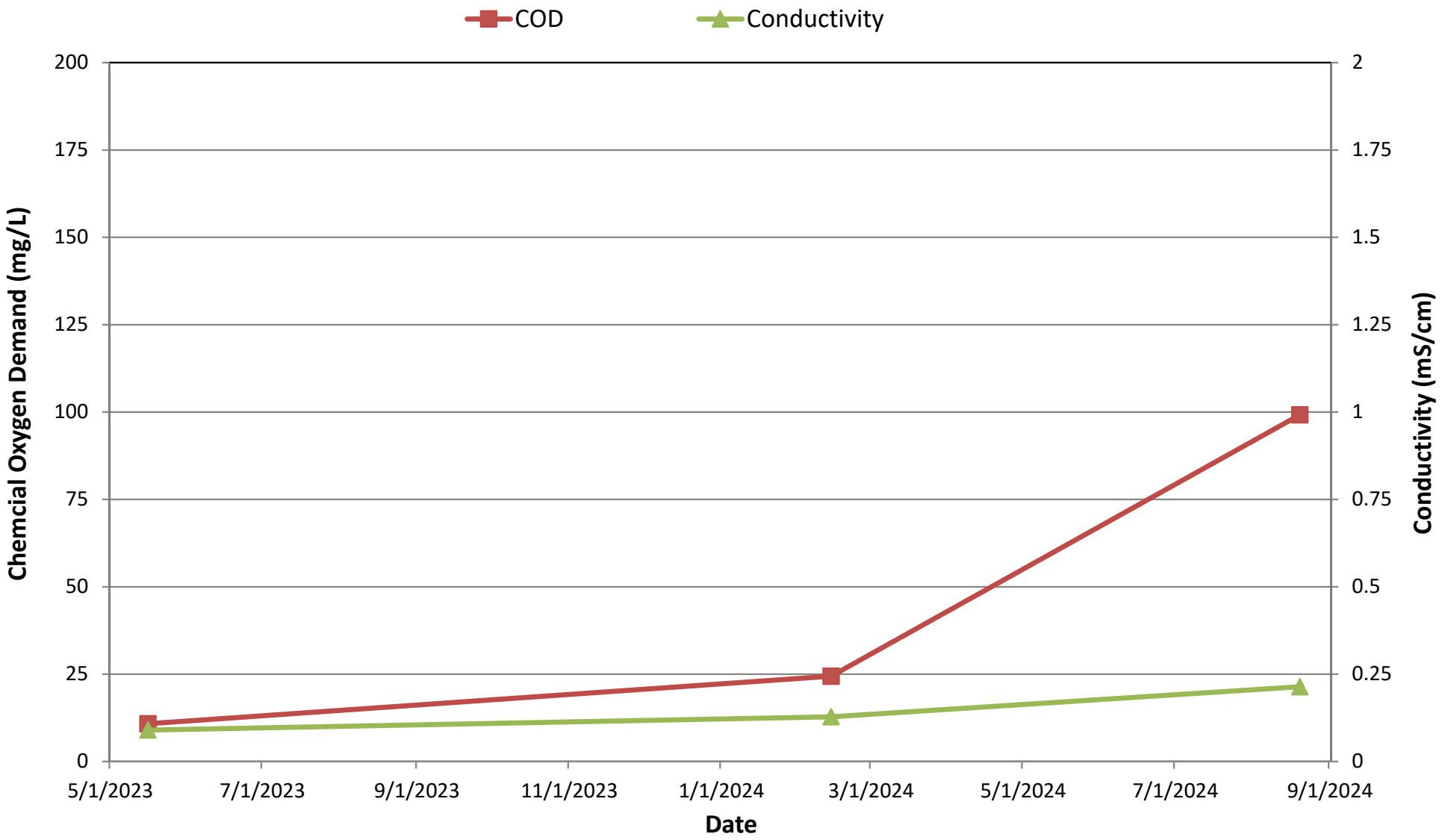
TREND CHART FOR ELECTRON DONORS PART 2 - UA-2 (DOWNGRADIENT)

PROJECT NO:	300-082	CHART:	24
DATE:	1/3/2025		

UA-3 Electron Donors (Downgradient)



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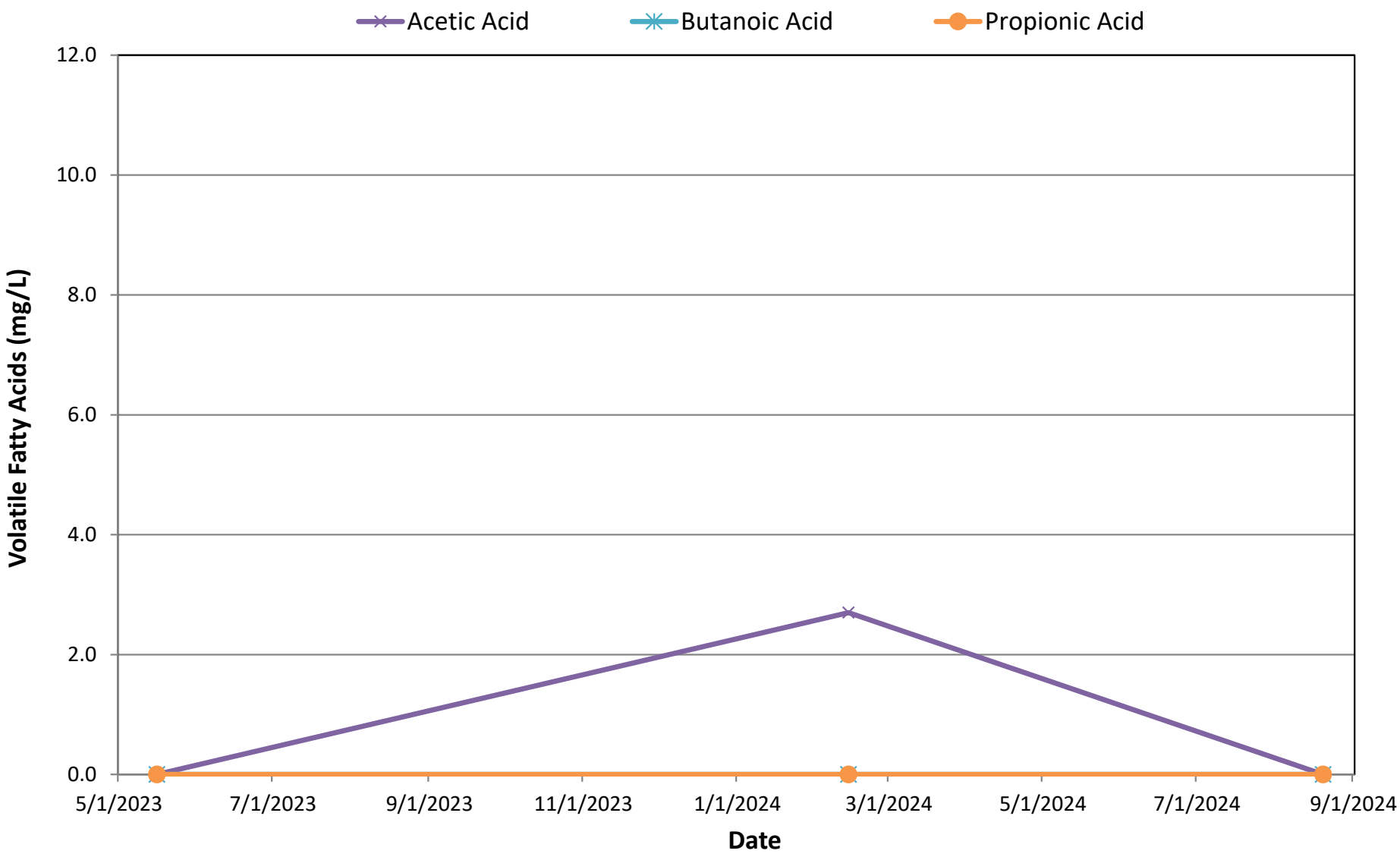
TREND CHART FOR ELECTRON DONORS PART 1 - UA-3 (DOWNGRADIENT)

PROJECT NO:	300-082	CHART:	25
DATE:	1/3/2025		

UA-3 Electron Donors (Downgradient)



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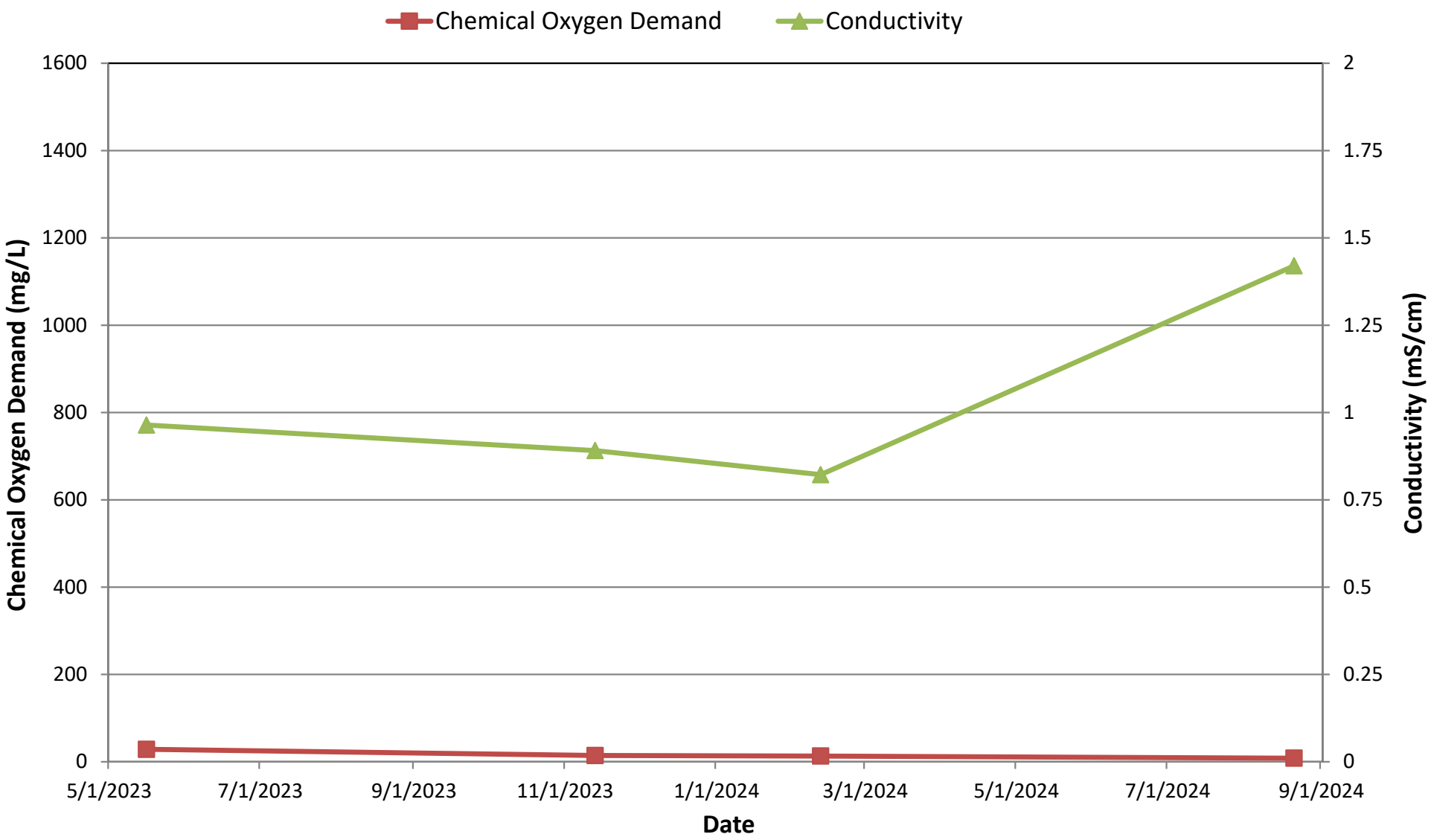
TREND CHART FOR ELECTRON DONORS PART 2 - UA-3 (DOWNGRADIENT)

PROJECT NO:	300-082	CHART:	26
DATE:	1/3/2025		

CW-13 Electron Donors (Sentinel)



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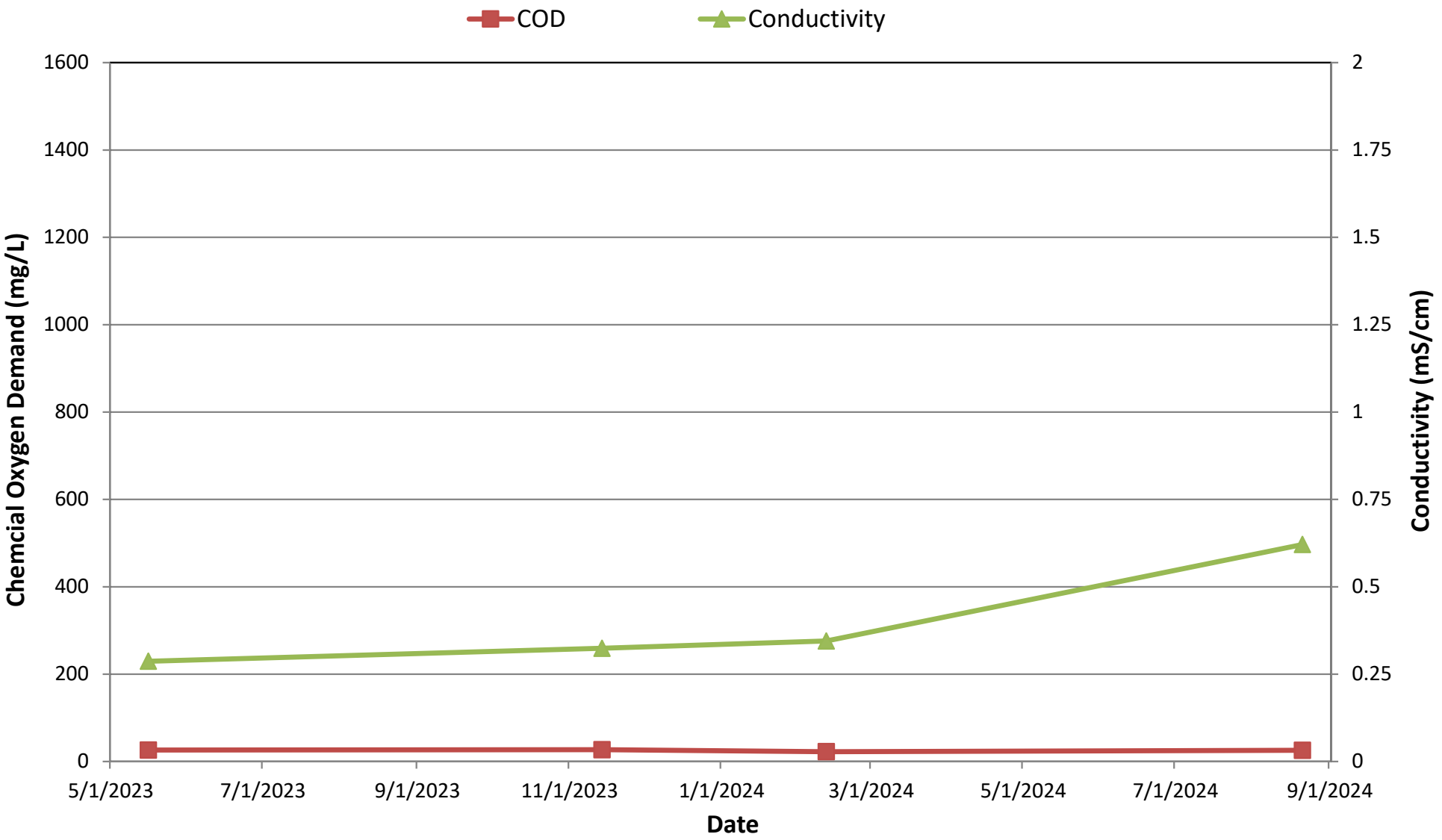
TREND CHART FOR ELECTRON DONORS PART 1 - CW-13 (SENTINEL)

PROJECT NO:	300-082	CHART:	27
DATE:	1/3/2025		

CW-13A Electron Donors (Sentinel)



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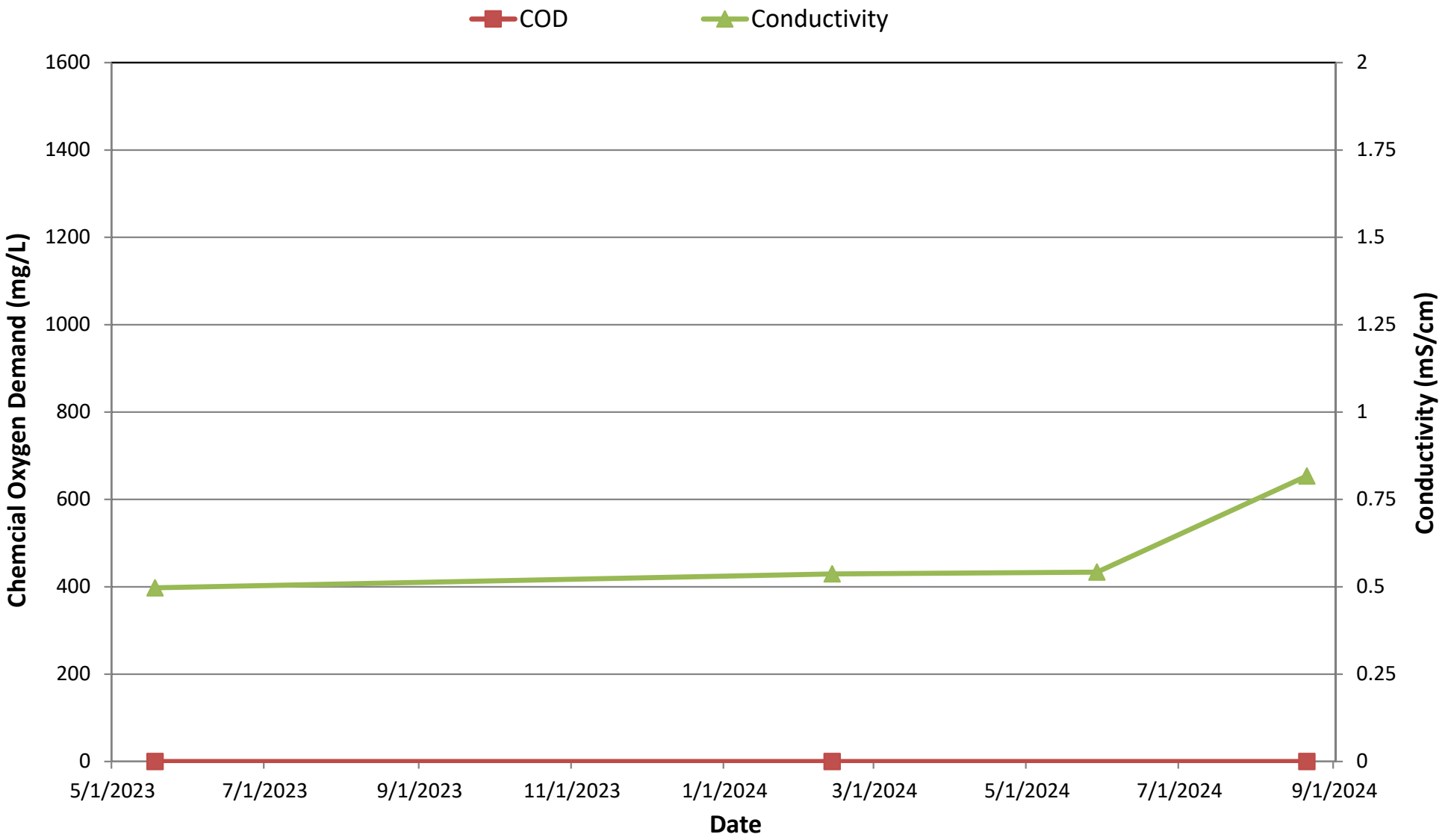
TREND CHART FOR ELECTRON DONORS PART 1 - CW-13A (SENTINEL)

PROJECT NO:	300-082	CHART:	28
DATE:	1/3/2025		

WW-18M Electron Donors (Sentinel)



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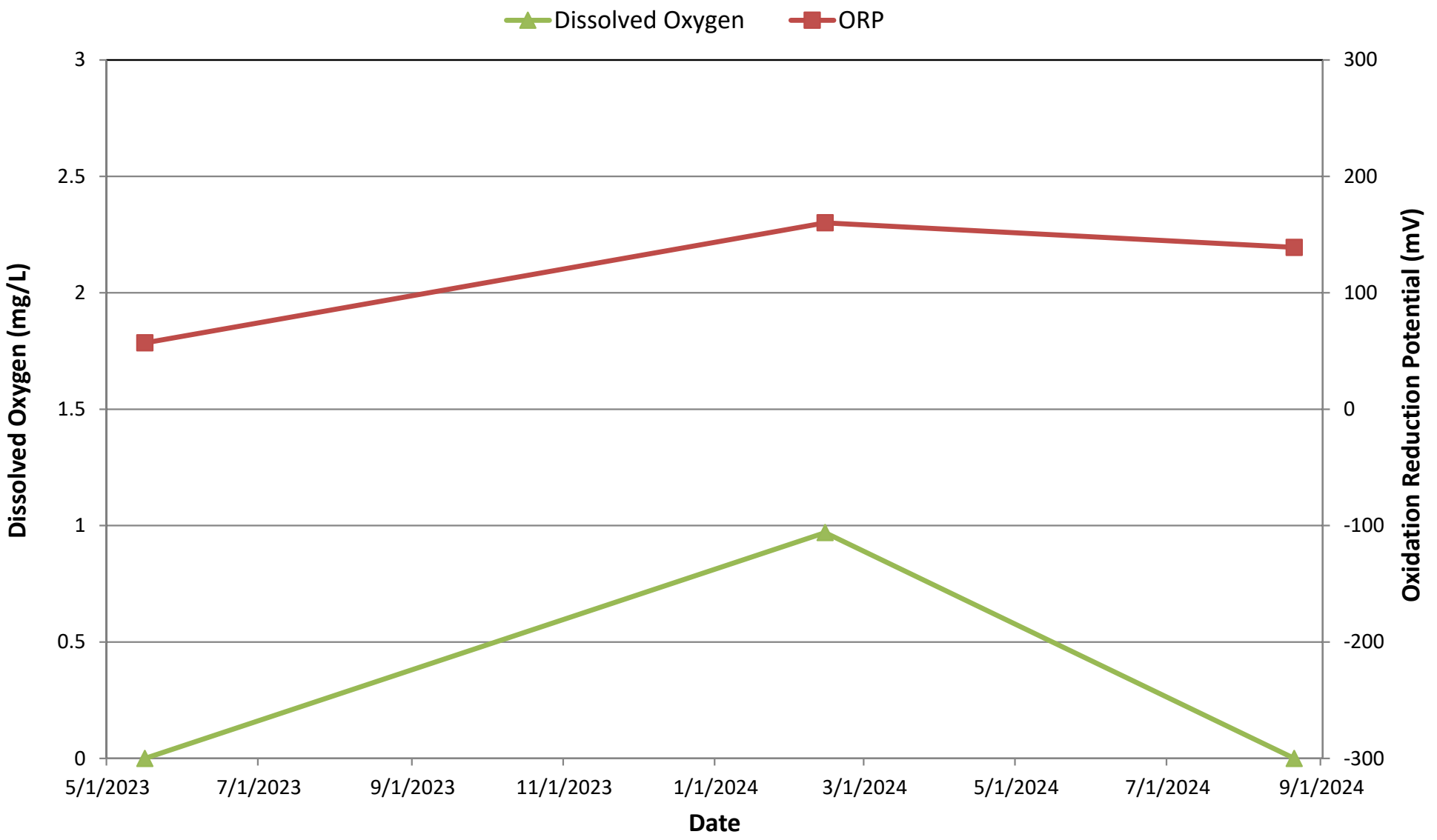
TREND CHART FOR ELECTRON DONORS PART 1 - WW-18M (SENTINEL)

PROJECT NO:	300-082	CHART:	29
DATE:	1/3/2025		

RU-8 Redox Conditions (Upgradient)



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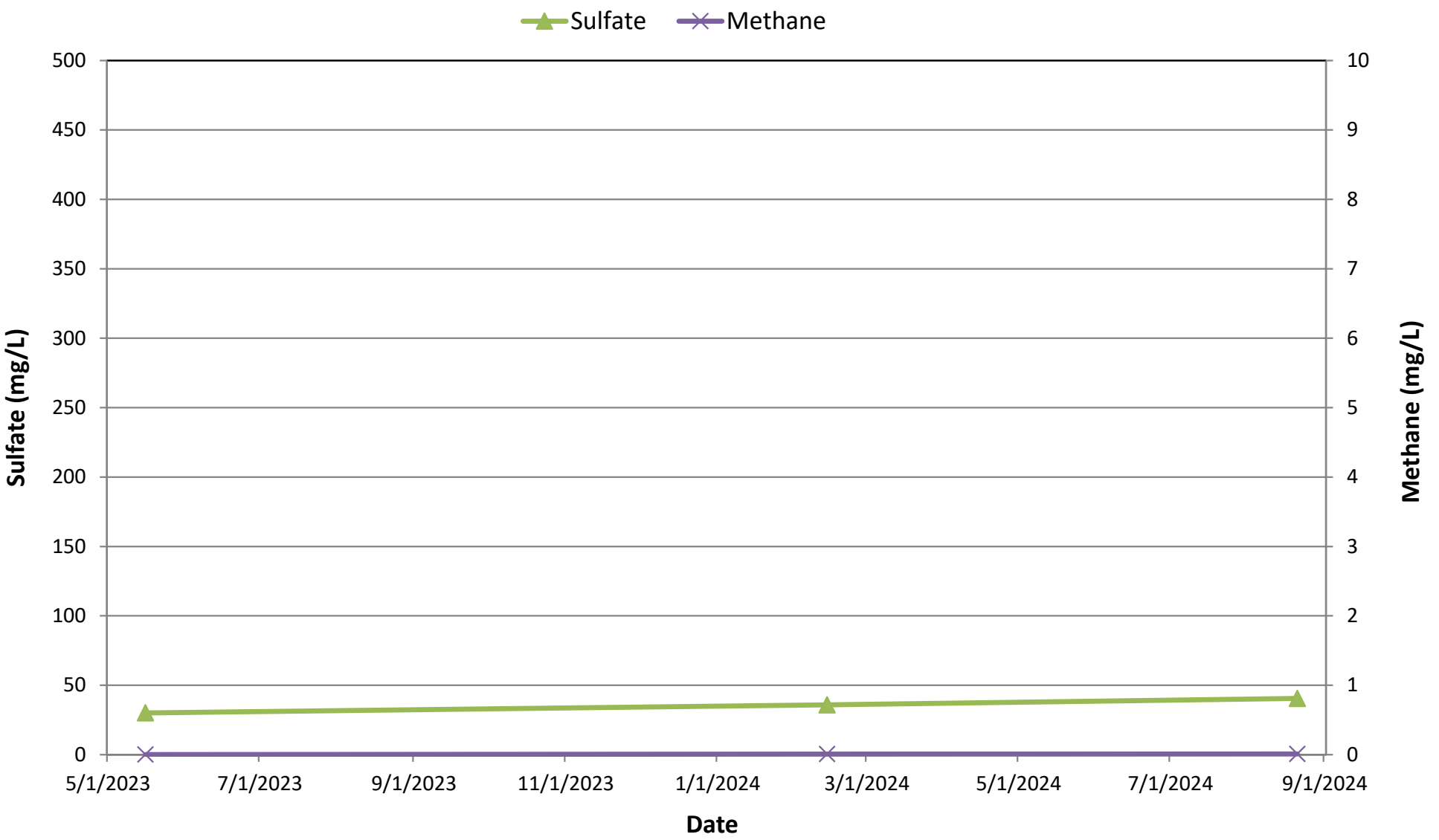
TREND CHART FOR REDOX INDICATORS PART 1 - RU-8 (UPGRADIENT)

PROJECT NO:	300-082	CHART:	30
DATE:	1/3/2025		

RU-8 Redox Conditions (Upgradient)



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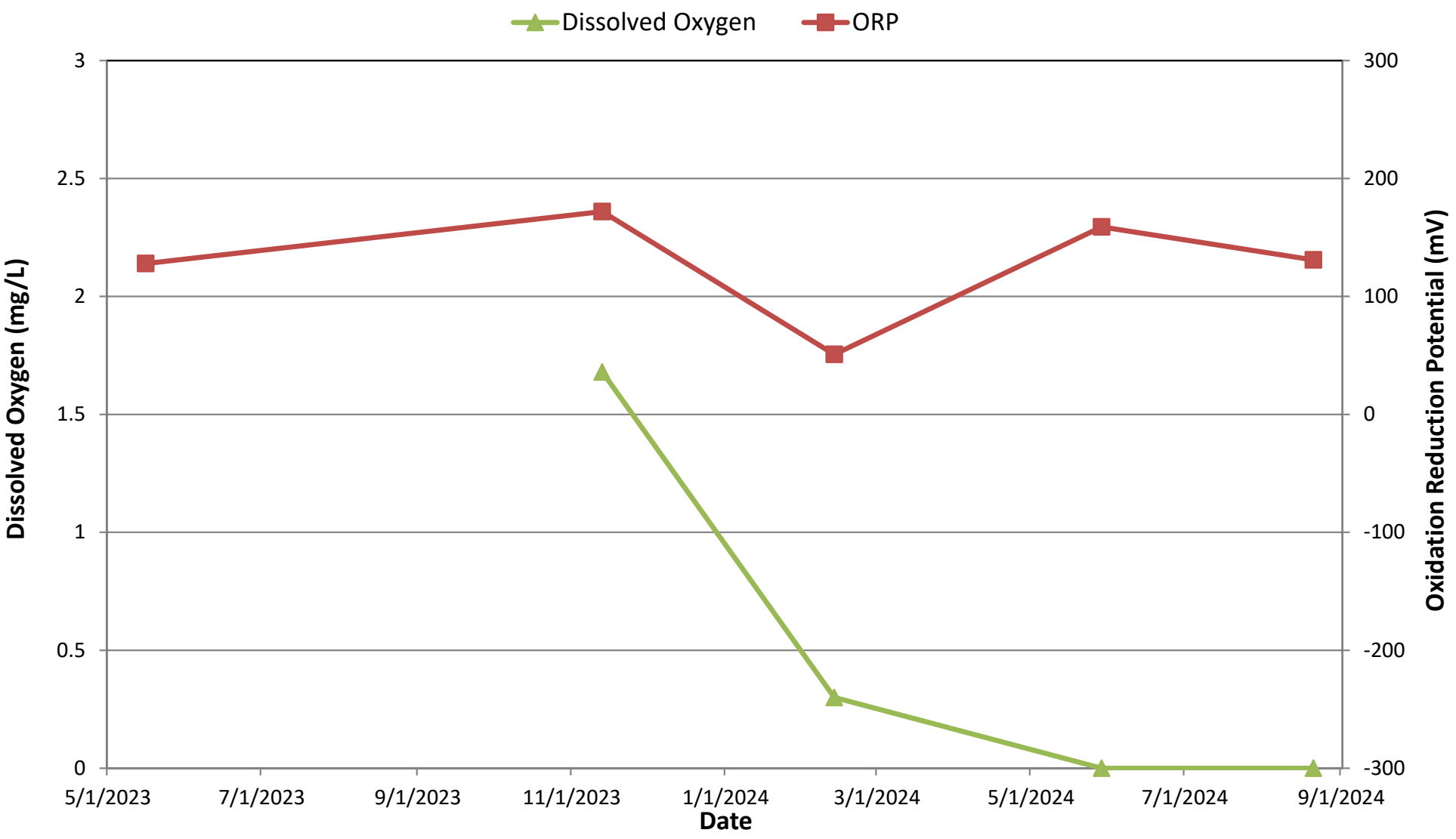
TREND CHART FOR REDOX INDICATORS PART 2 - RU-8 (UPGRADIENT)

PROJECT NO:	300-082	CHART:	31
DATE:	1/3/2025		

RU-15 Redox Conditions (Upgradient)



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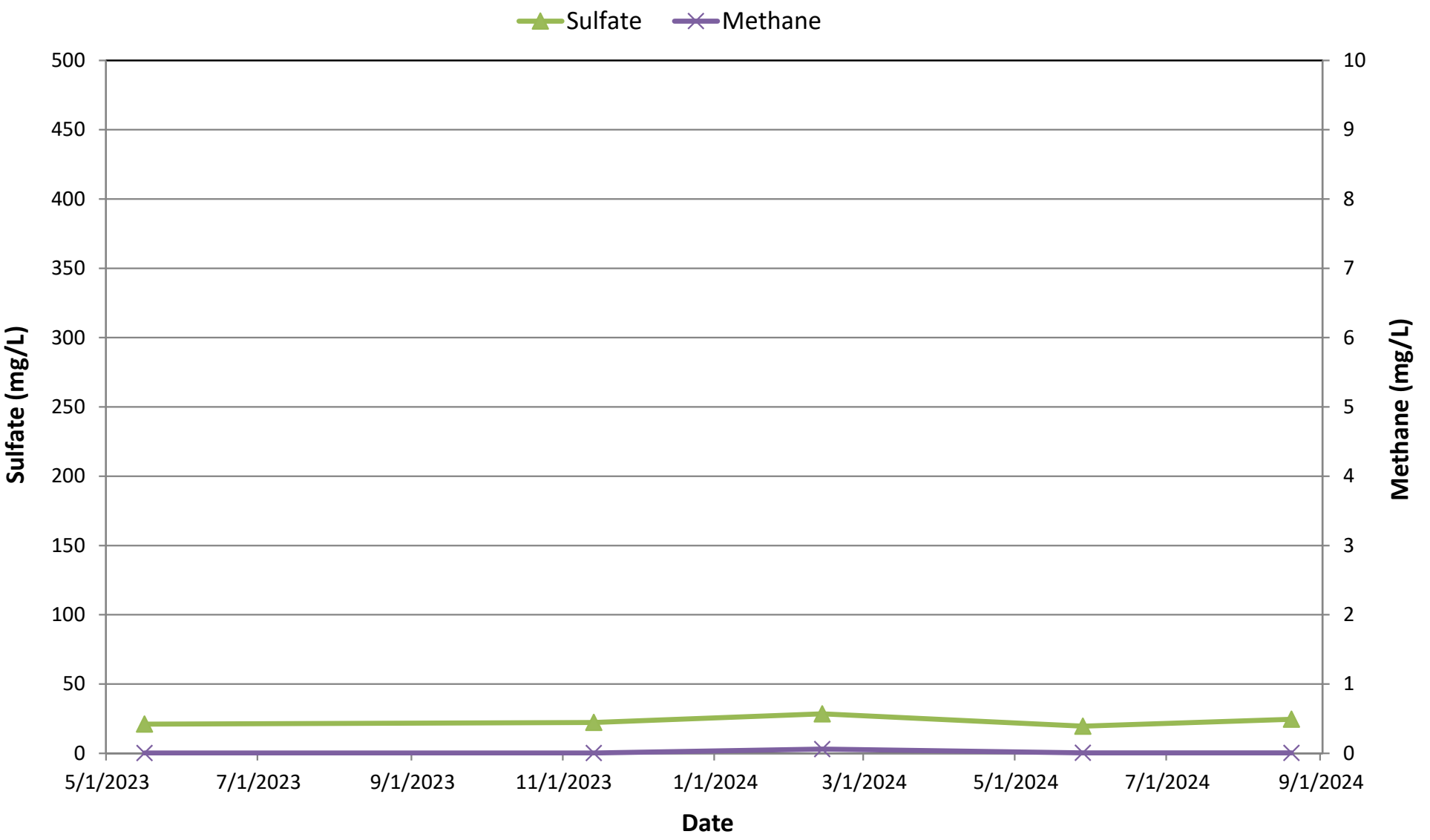
TREND CHART FOR REDOX INDICATORS PART 1 - RU-15 (UPGRADIENT)

PROJECT NO:	300-082	CHART:	32
DATE:	1/3/2025		

RU-15 Redox Conditions (Upgradient)



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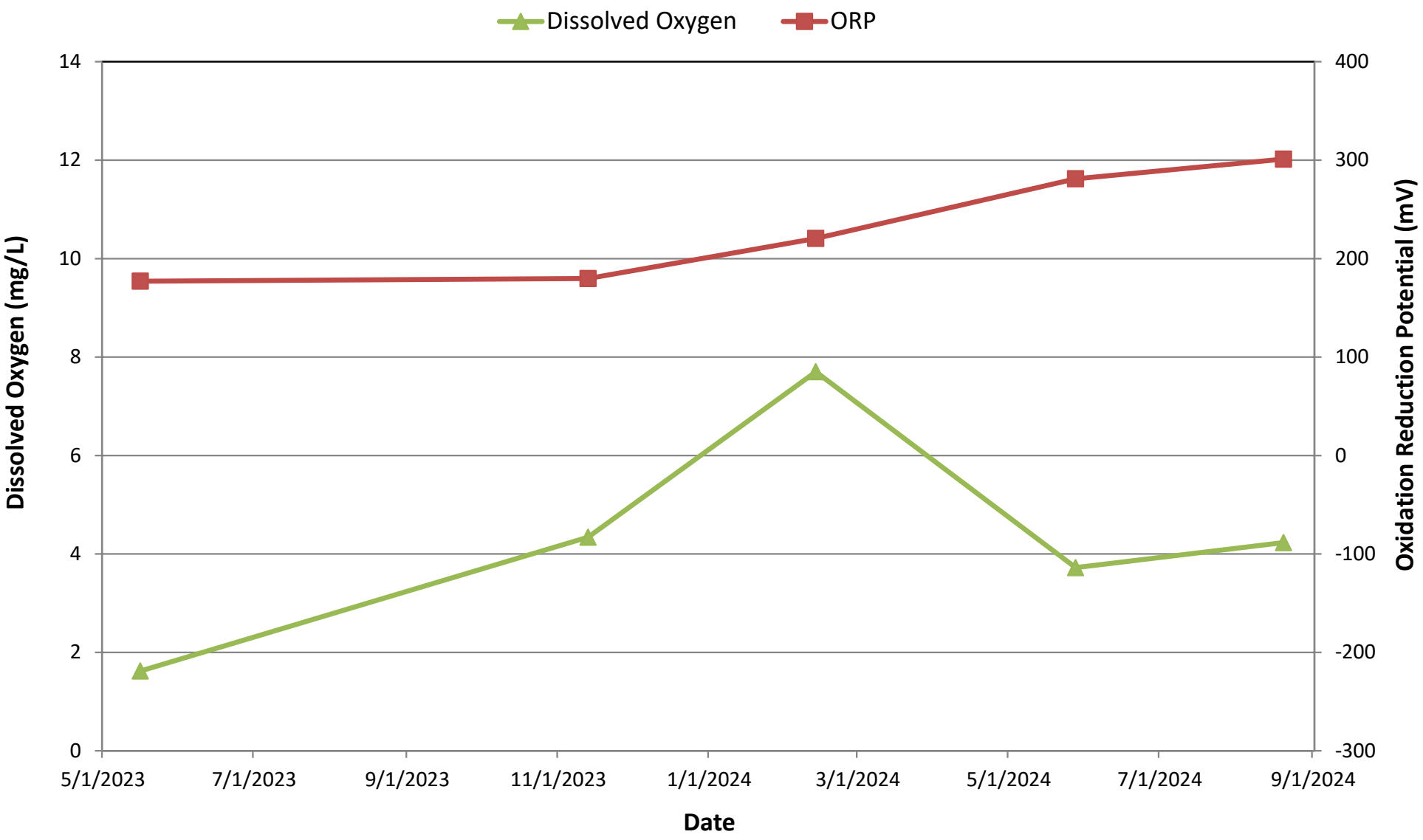
TREND CHART FOR REDOX INDICATORS PART 2 - RU-15 (UPGRADIENT)

PROJECT NO:	300-082	CHART:	33
DATE:	1/3/2025		

RU-9 Redox Conditions (Treatment Area)



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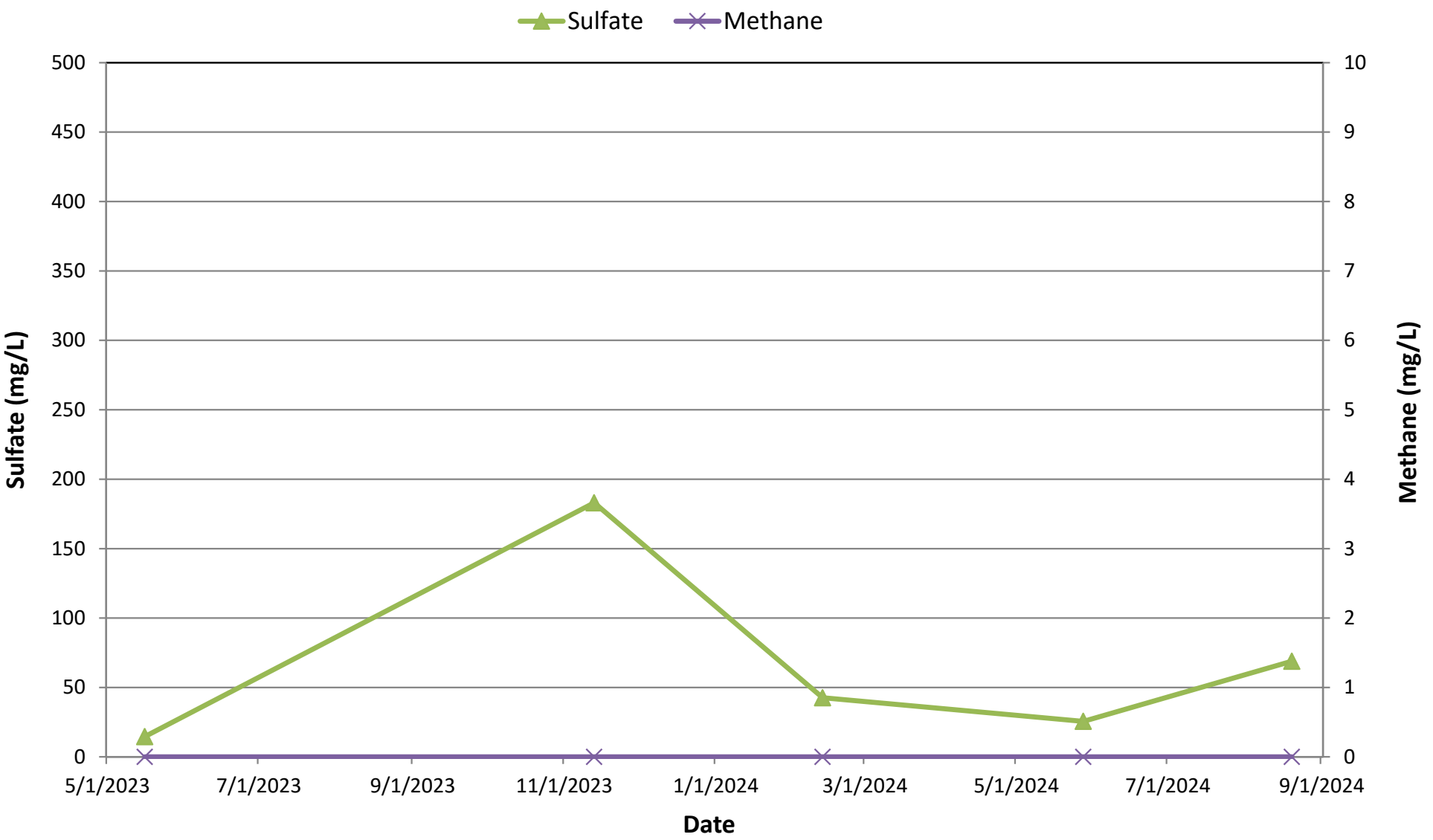
TREND CHART FOR REDOX INDICATORS PART 1 - RU-9 (TREATMENT AREA)

PROJECT NO:	300-082	CHART:	34
DATE:	1/3/2025		

RU-9 Redox Conditions (Treatment Area)



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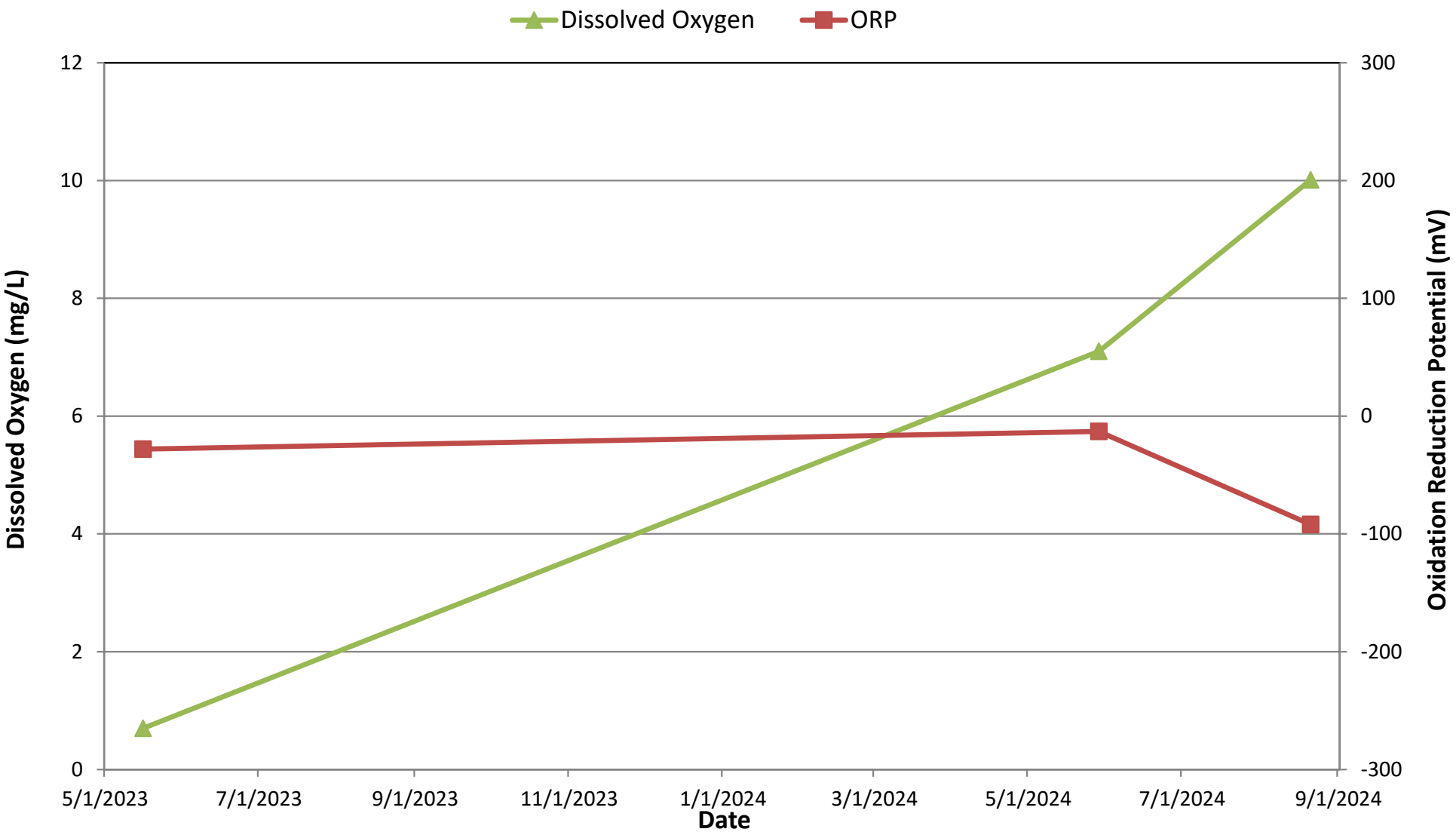
TREND CHART FOR REDOX INDICATORS PART 2 - RU-9 (TREATMENT AREA)

PROJECT NO: 300-082	CHART: 35
DATE: 1/3/2025	

RU-10 Redox Conditions (Treatment Area)



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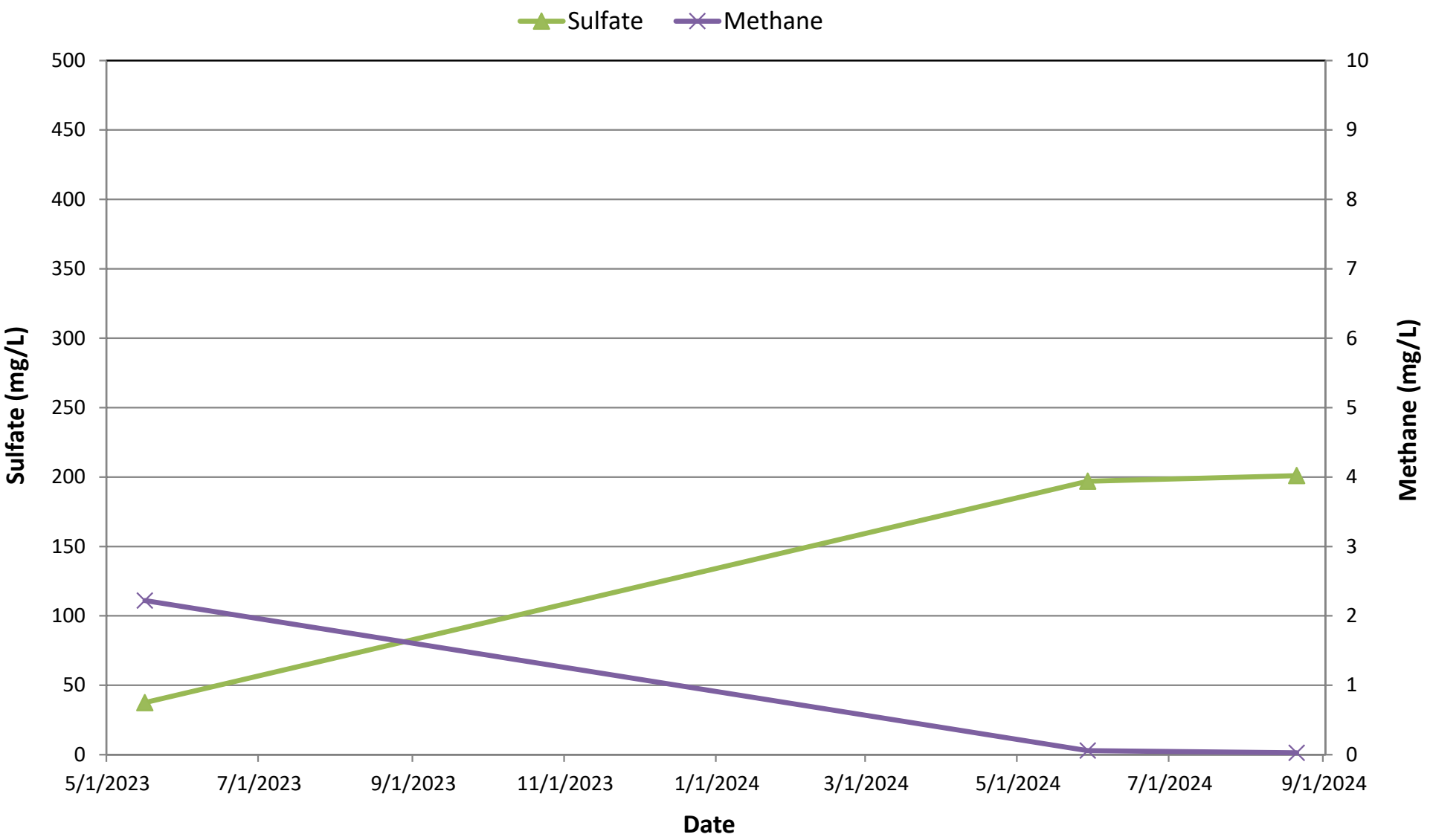
TREND CHART FOR REDOX INDICATORS PART 1 - RU-10 (TREATMENT AREA)

PROJECT NO:	300-082	CHART:	36
DATE:	1/3/2025		

RU-10 Redox Conditions (Treatment Area)



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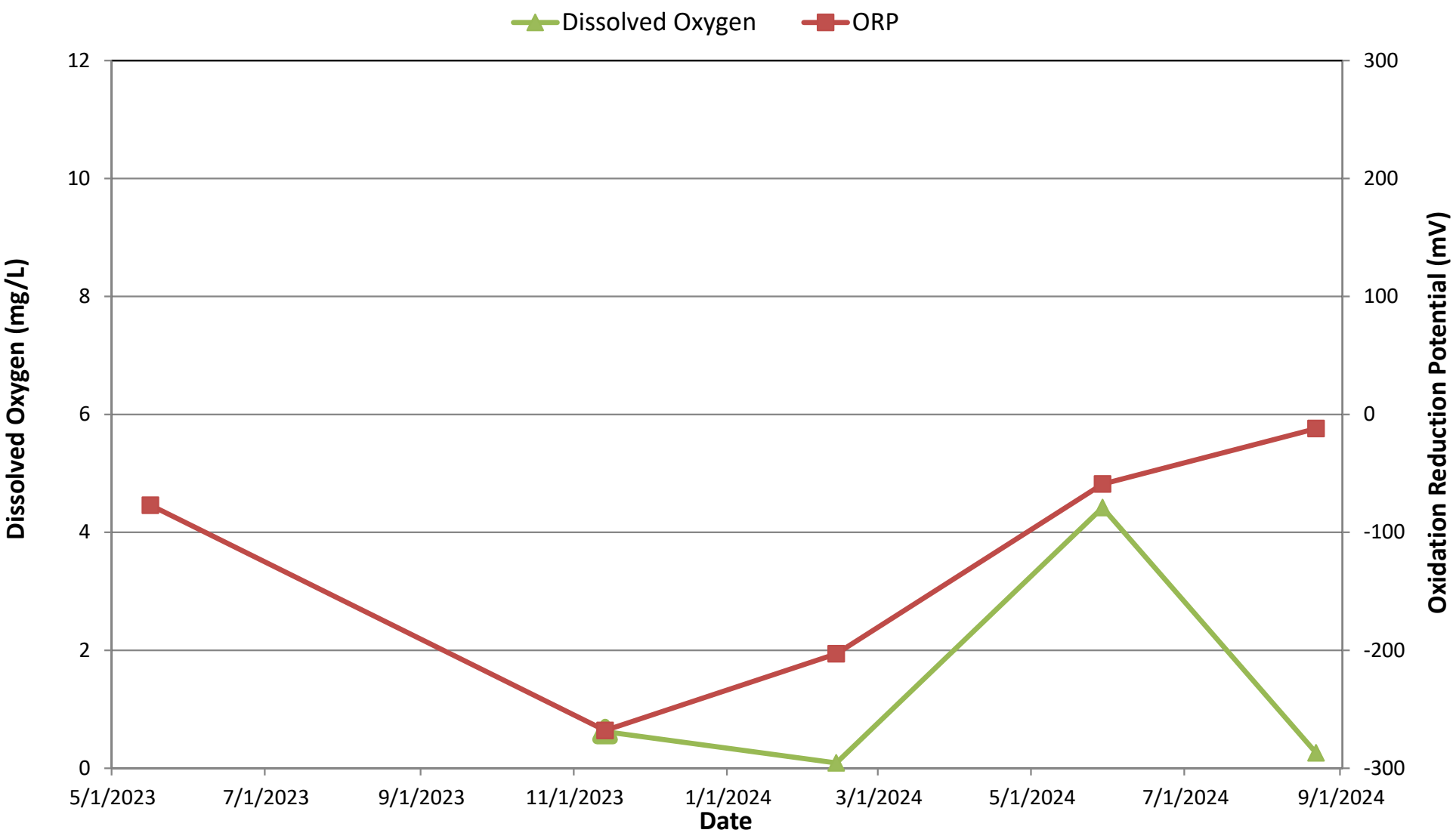
TREND CHART FOR REDOX INDICATORS PART 2 - RU-10 (TREATMENT AREA)

PROJECT NO:	300-082	CHART:	37
DATE:	1/3/2025		

RU-19 Redox Conditions (Treatment Area)



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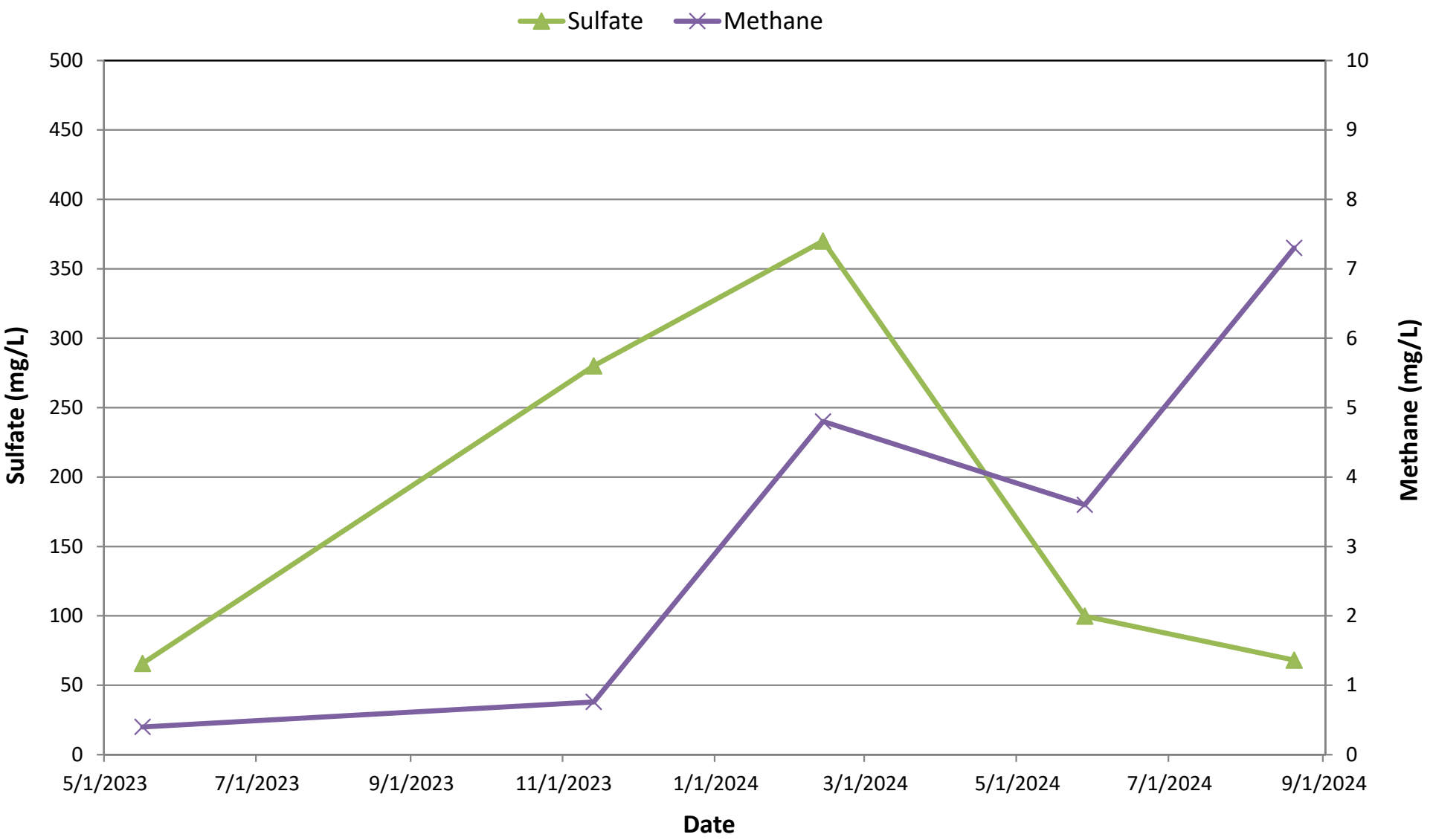
TREND CHART FOR REDOX INDICATORS PART 1 - RU-19 (TREATMENT AREA)

PROJECT NO:	300-082
DATE:	1/3/2025
CHART:	38

RU-19 Redox Conditions (Treatment Area)



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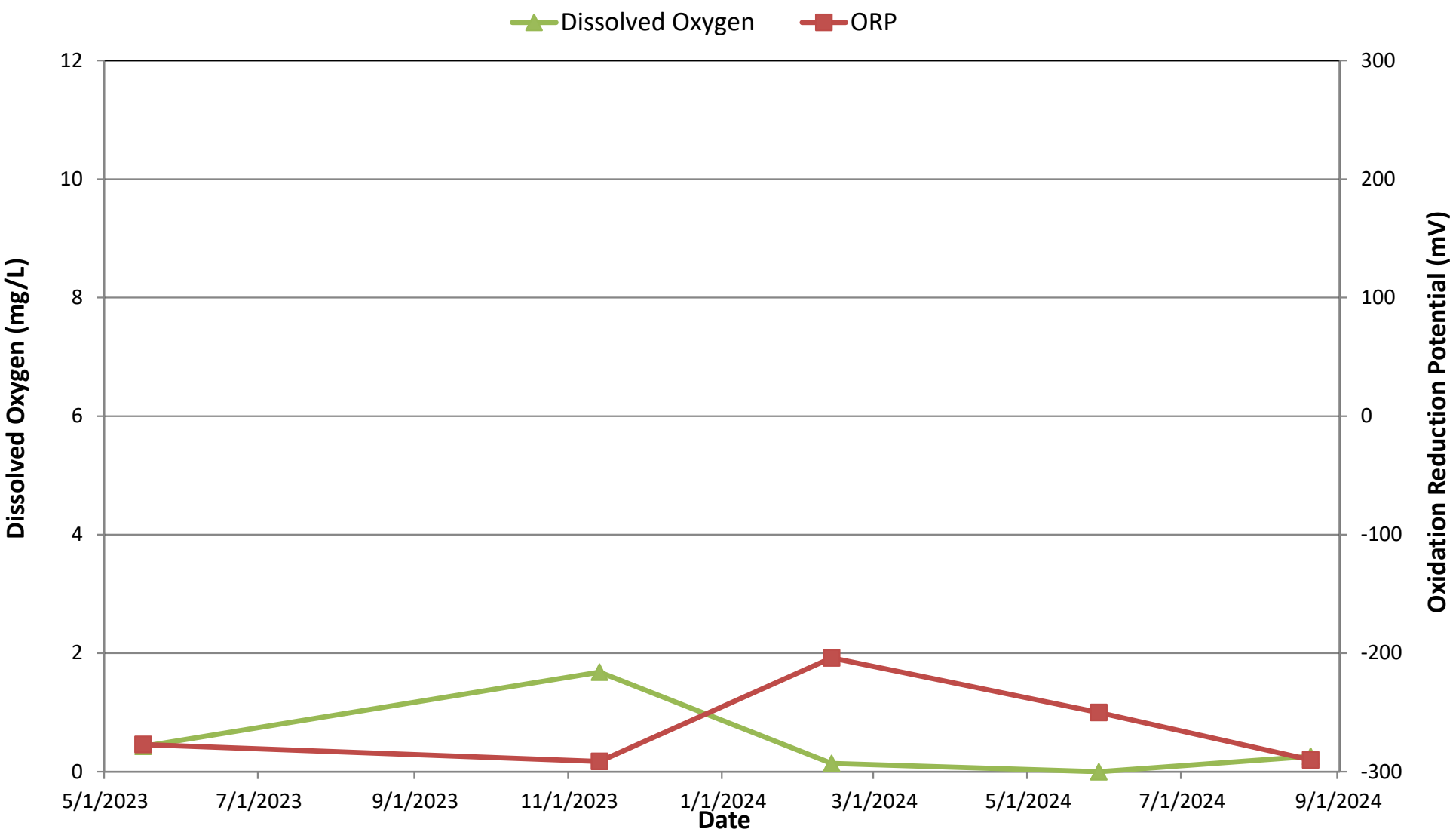
TREND CHART FOR REDOX INDICATORS PART 2 - RU-19 (TREATMENT AREA)

PROJECT NO:	300-082	CHART:	39
DATE:	1/3/2025		

RU-20 Redox Conditions (Treatment Area)



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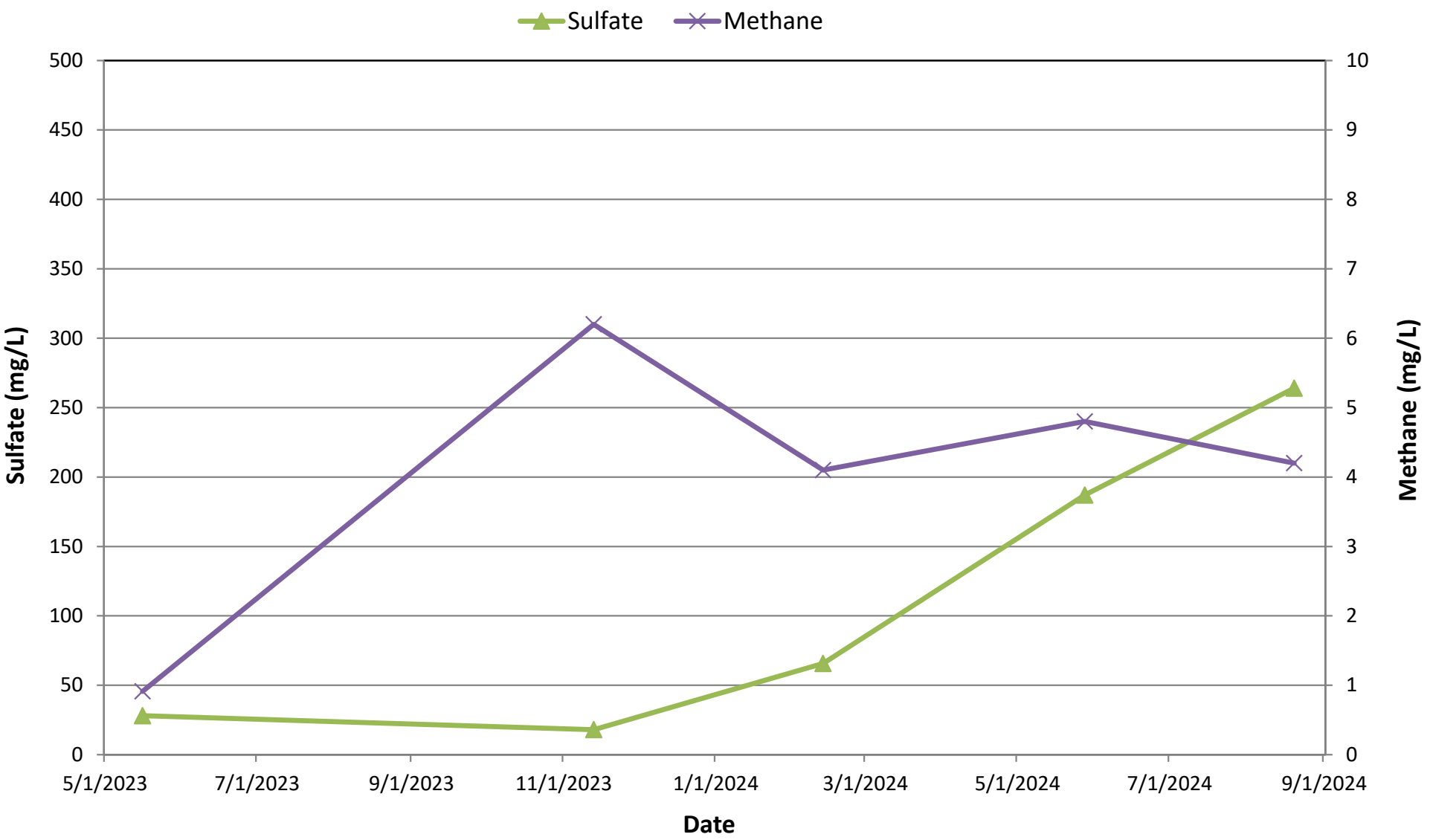
TREND CHART FOR REDOX INDICATORS PART 1 - RU-20 (TREATMENT AREA)

PROJECT NO:	300-082	CHART:	40
DATE:	1/3/2025		

RU-20 Redox Conditions (Treatment Area)



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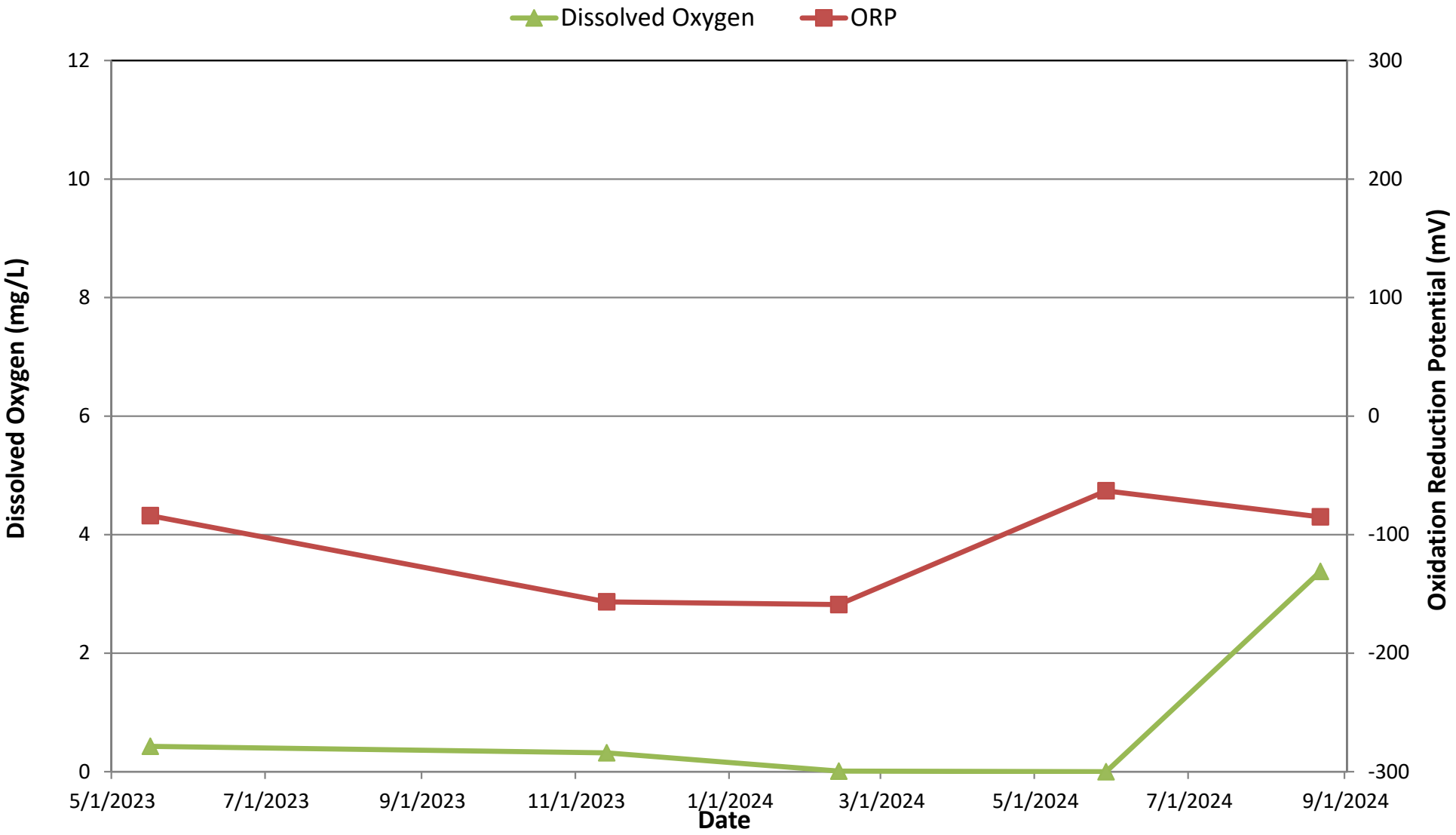
TREND CHART FOR REDOX INDICATORS PART 2 - RU-20 (TREATMENT AREA)

PROJECT NO: 300-082	CHART: 41
DATE: 1/3/2025	

RU-21 Redox Conditions (Treatment Area)



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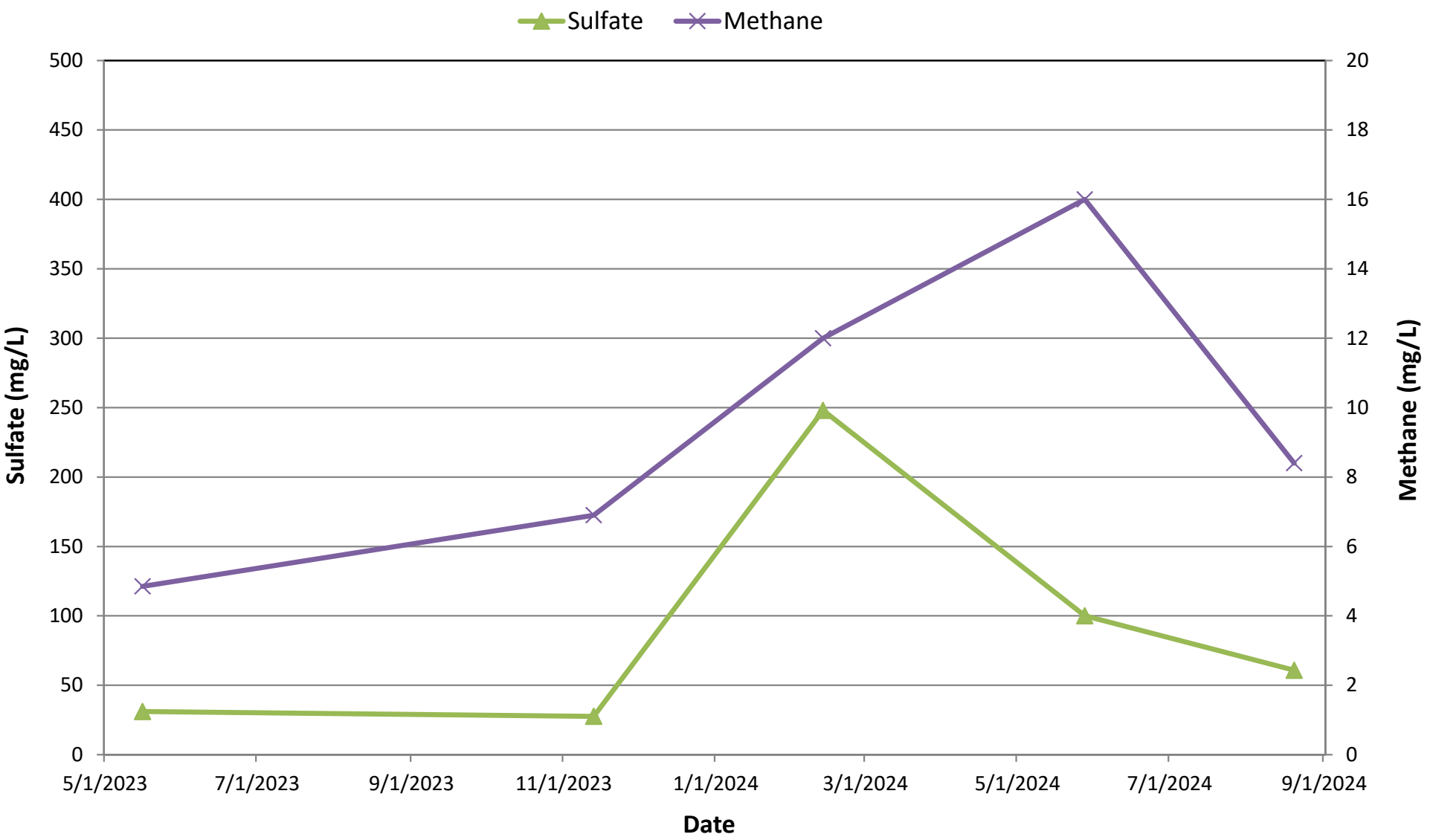
TREND CHART FOR REDOX INDICATORS PART 1 - RU-21 (TREATMENT AREA)

PROJECT NO:	300-082	CHART:	42
DATE:	1/3/2025		

RU-21 Redox Conditions (Treatment Area)



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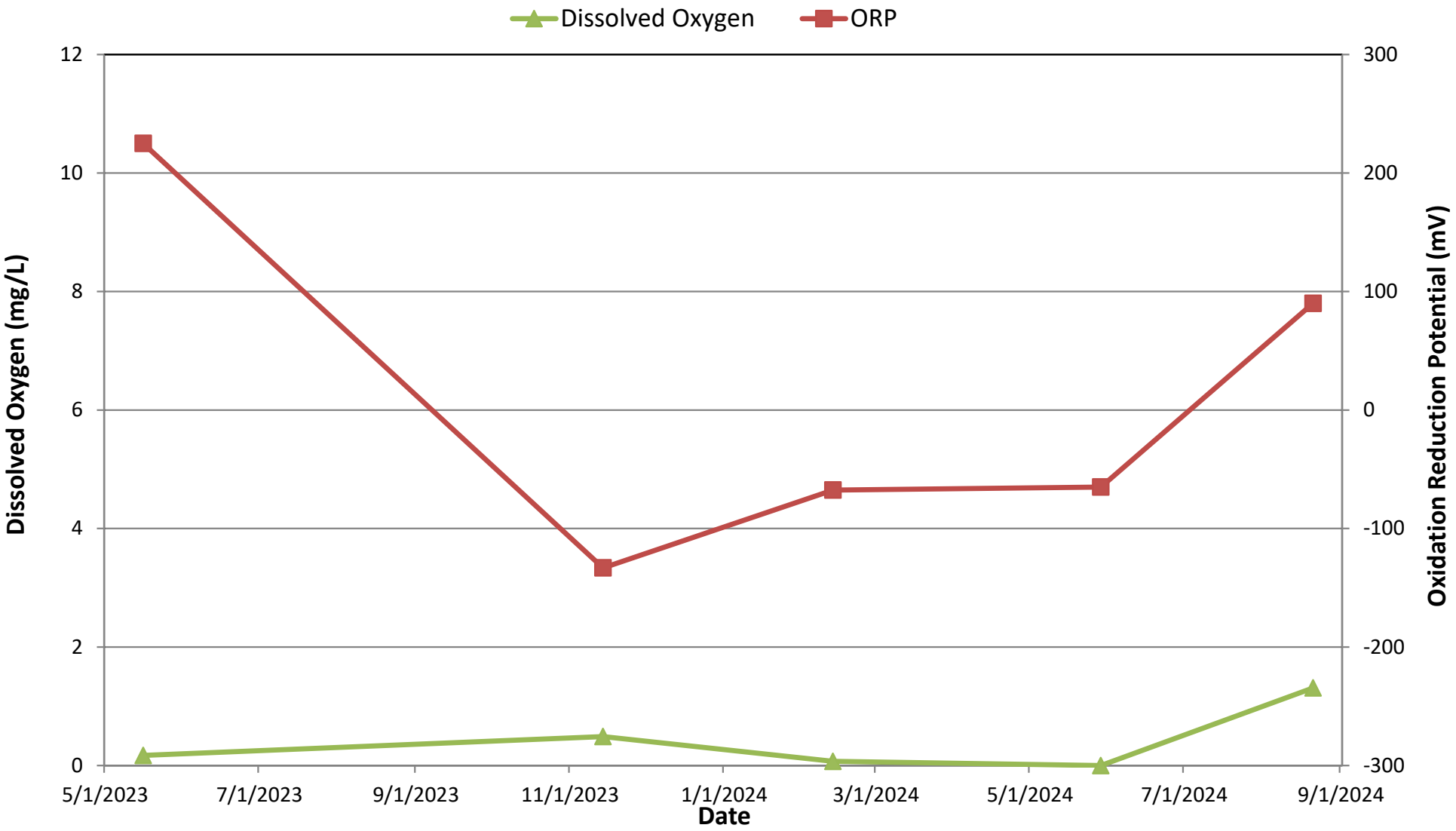
TREND CHART FOR REDOX INDICATORS PART 2 - RU-21 (TREATMENT AREA)

PROJECT NO:	300-082
DATE:	1/3/2025
CHART:	43

RU-27A Redox Conditions (Treatment Area)



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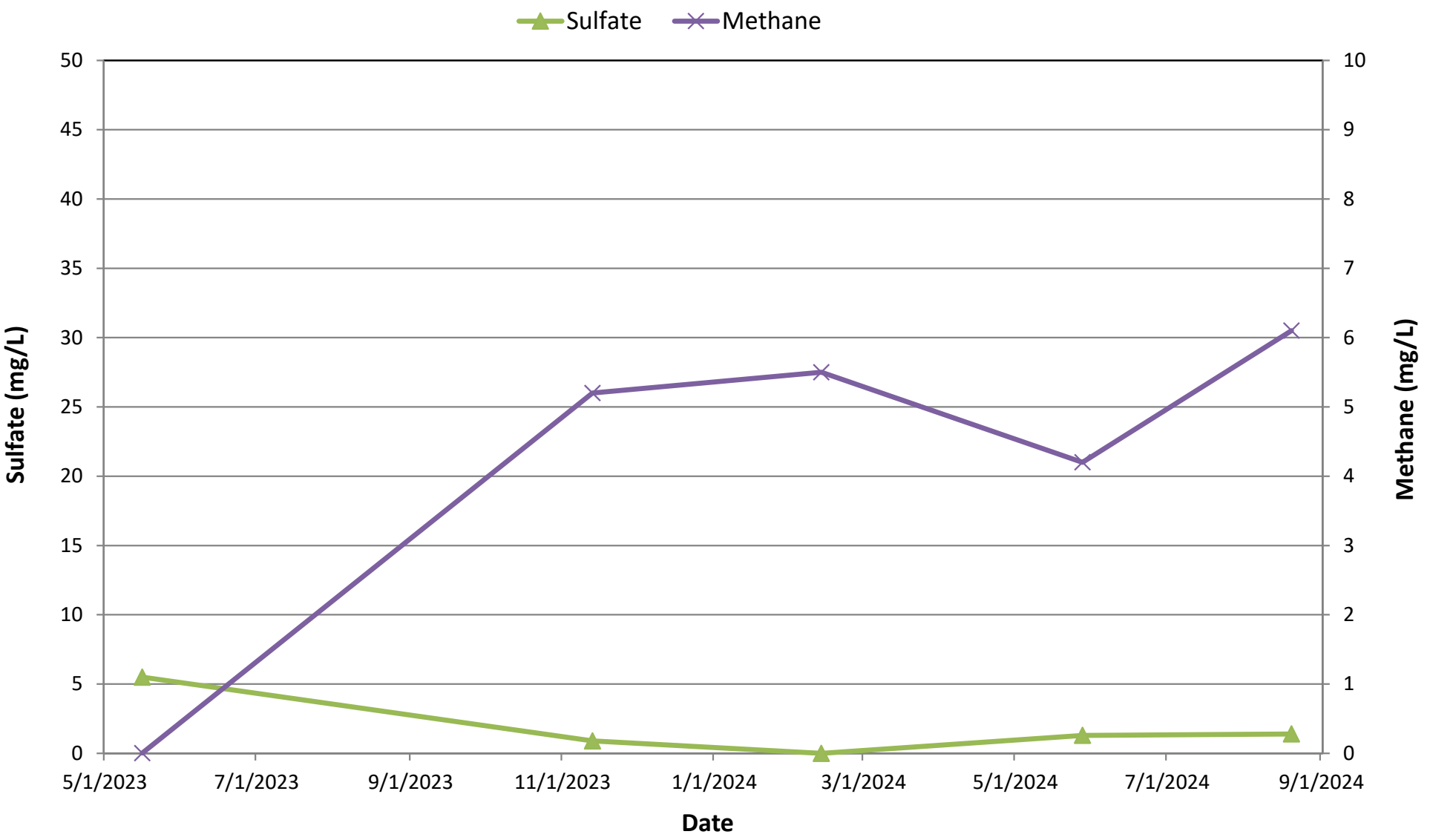
TREND CHART FOR REDOX INDICATORS PART 1 - RU-27A (TREATMENT AREA)

PROJECT NO:	300-082	CHART:	44
DATE:	1/3/2025		

RU-27A Redox Conditions (Treatment Area)



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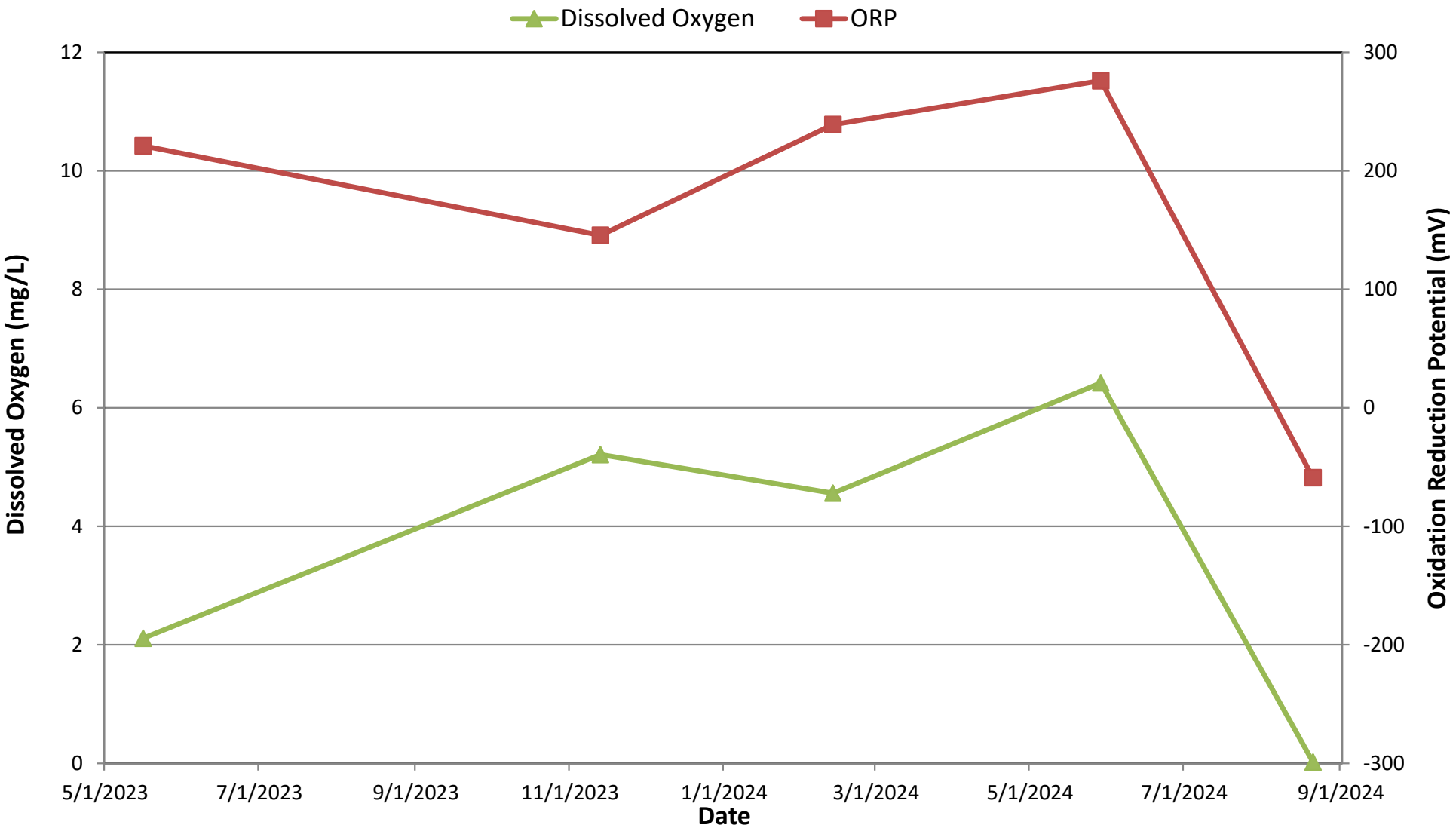
TREND CHART FOR REDOX INDICATORS PART 2 - RU-27A (TREATMENT AREA)

PROJECT NO:	300-082	CHART:	45
DATE:	1/3/2025		

RU-28 Redox Conditions (Treatment Area)



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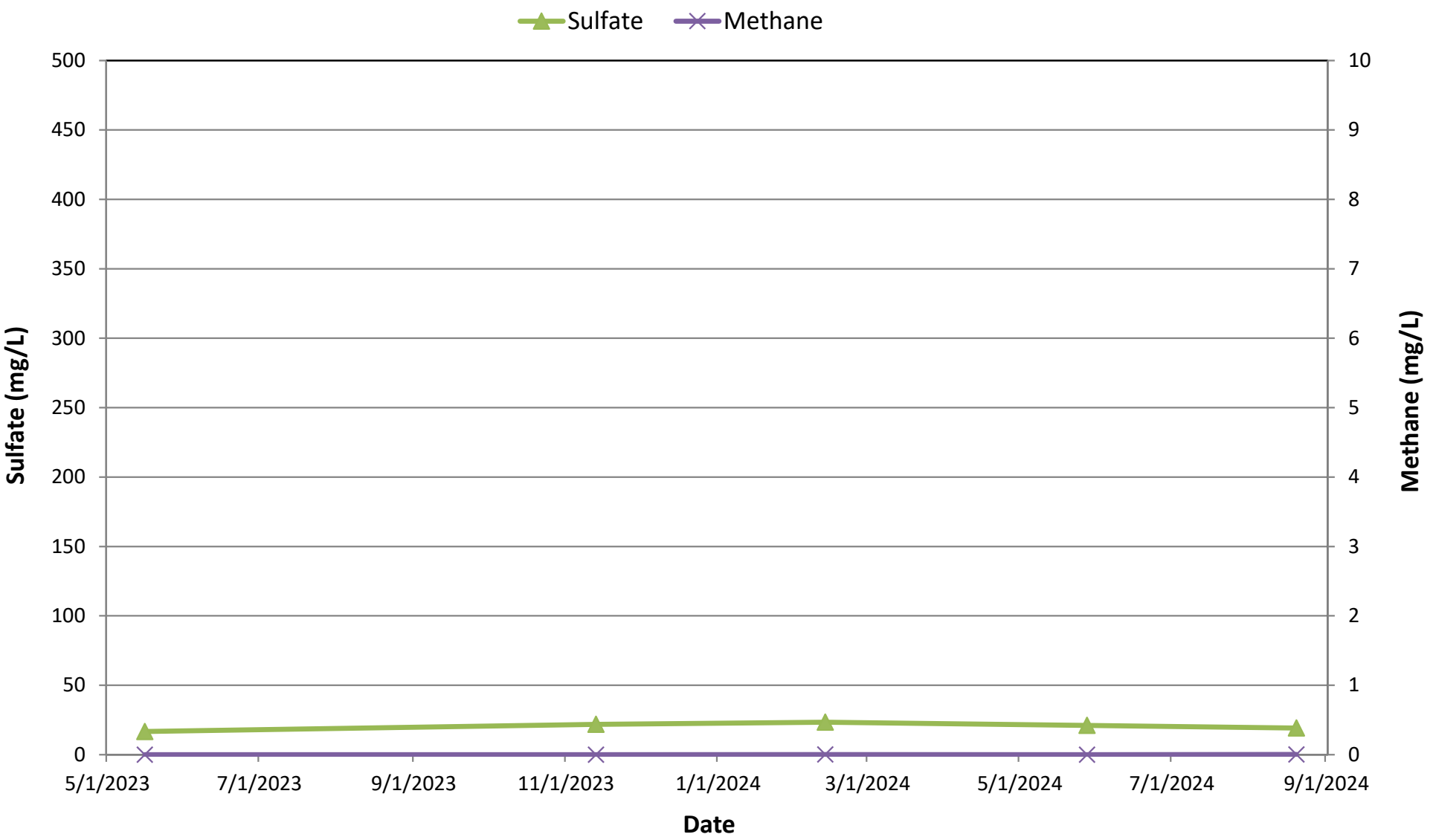
TREND CHART FOR REDOX INDICATORS PART 1 - RU-28 (TREATMENT AREA)

PROJECT NO:	300-082
DATE:	1/3/2025
CHART:	46

RU-28 Redox Conditions (Treatment Area)



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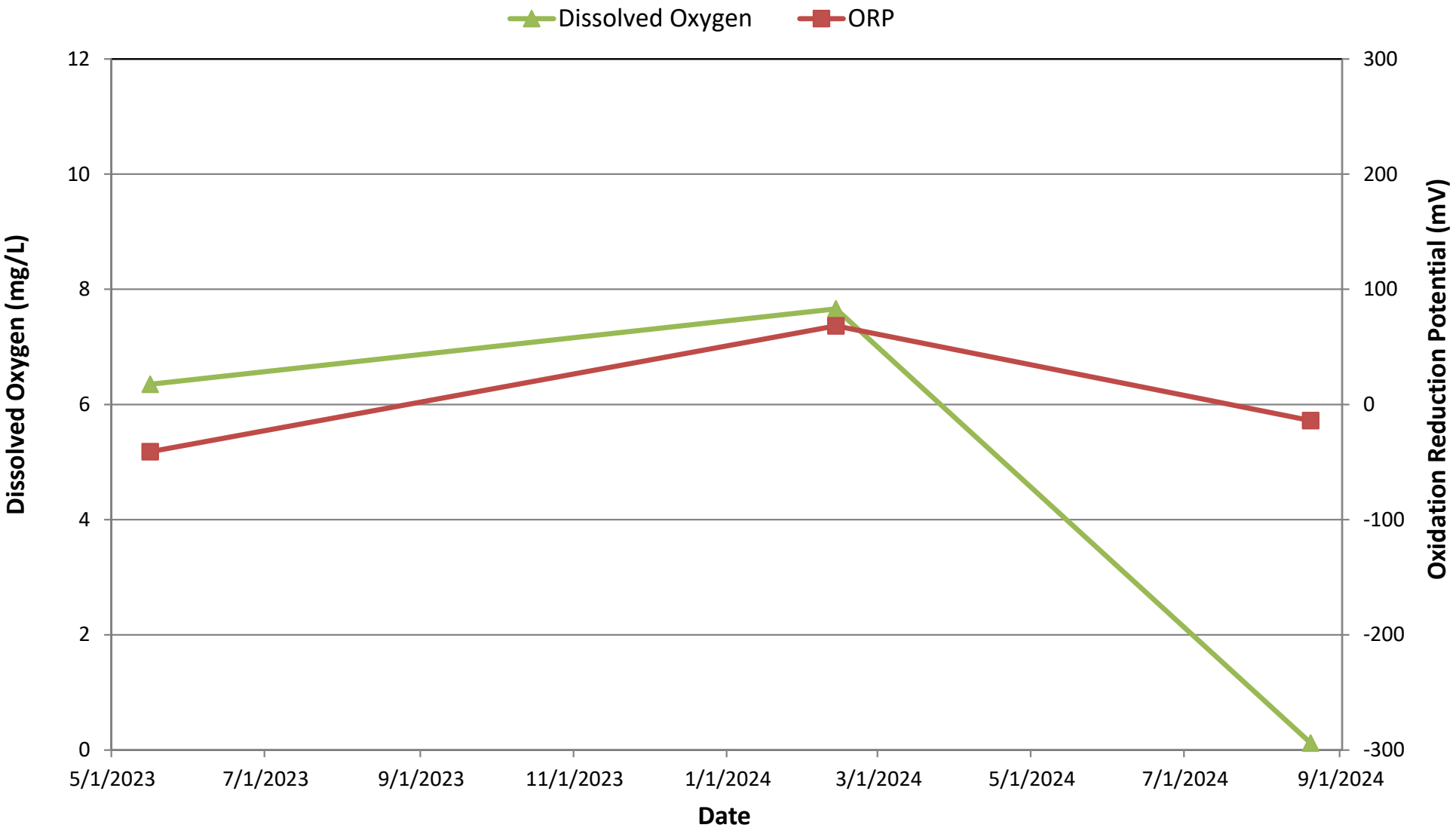
TREND CHART FOR REDOX INDICATORS PART 2 - RU-28 (TREATMENT AREA)

PROJECT NO:	300-082
DATE:	1/3/2025
CHART:	47

RU-11 Redox Conditions (Downgradient)



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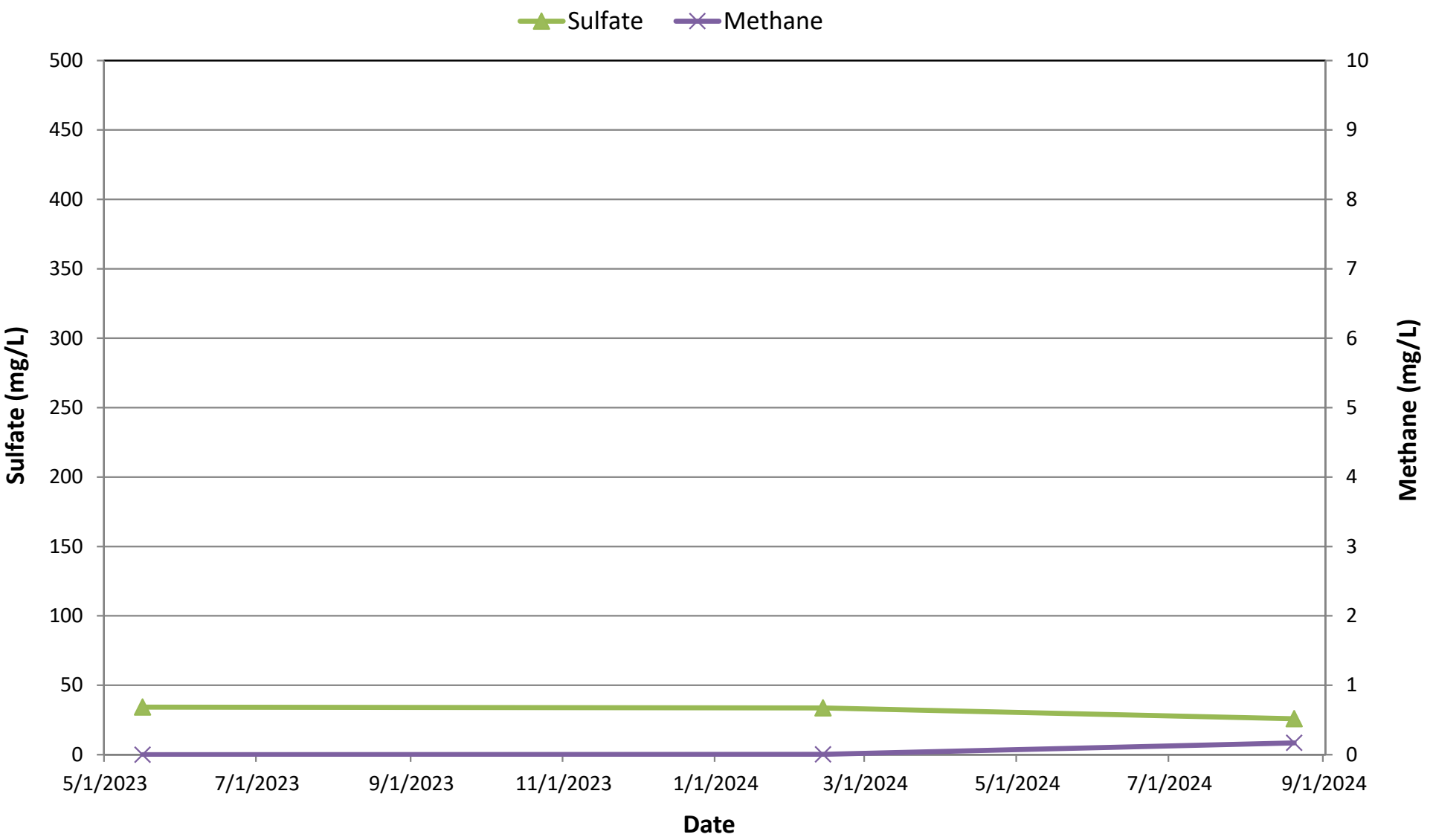
TREND CHART FOR REDOX INDICATORS PART 1 - RU-11 (DOWNGRADIENT)

PROJECT NO:	300-082	CHART:	48
DATE:	1/3/2025		

RU-11 Redox Conditions (Downgradient)



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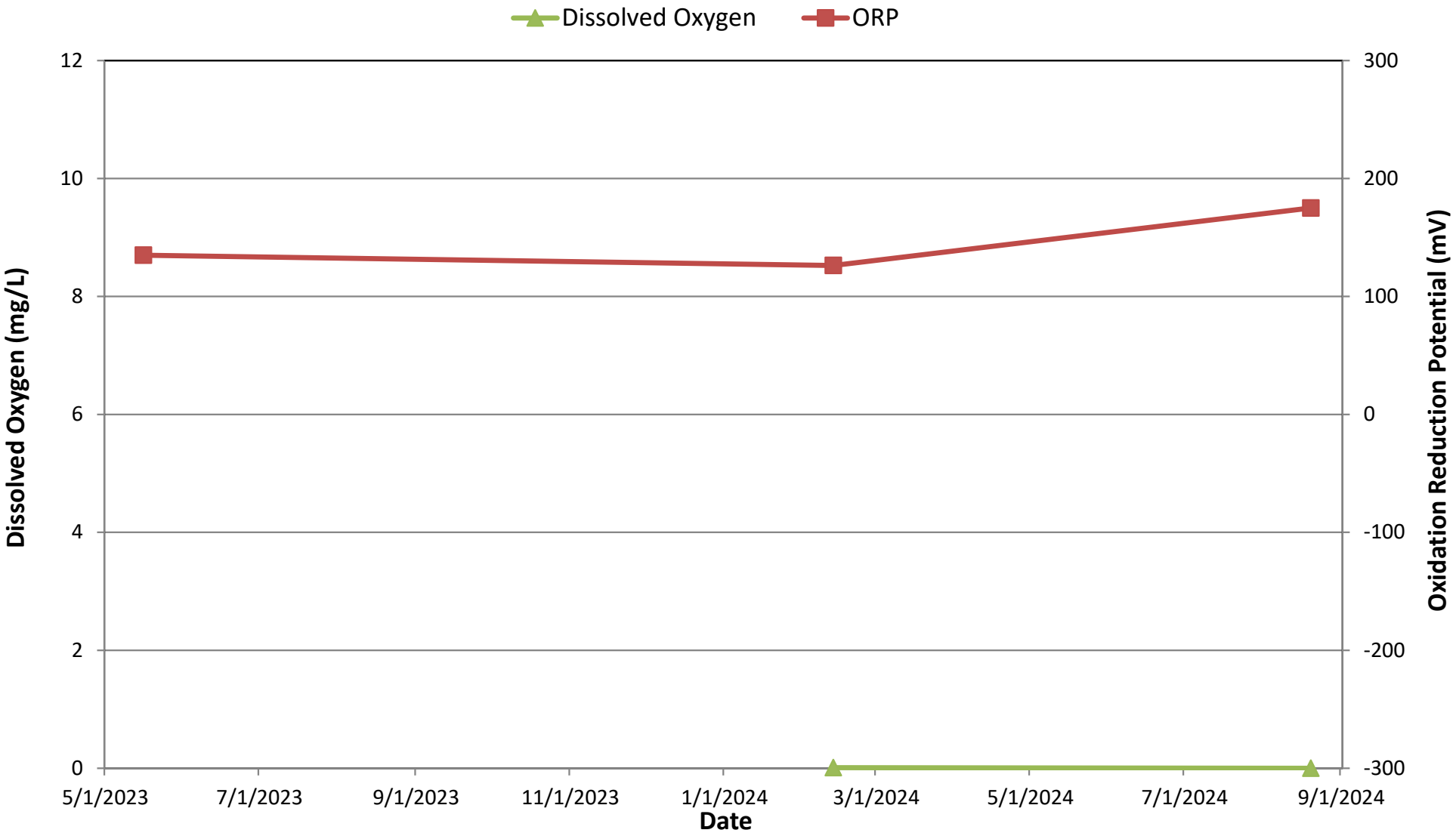
TREND CHART FOR REDOX INDICATORS PART 2 - RU-11 (DOWNGRADIENT)

PROJECT NO:	300-082	CHART:	49
DATE:	1/3/2025		

RU-16 Redox Conditions (Downgradient)



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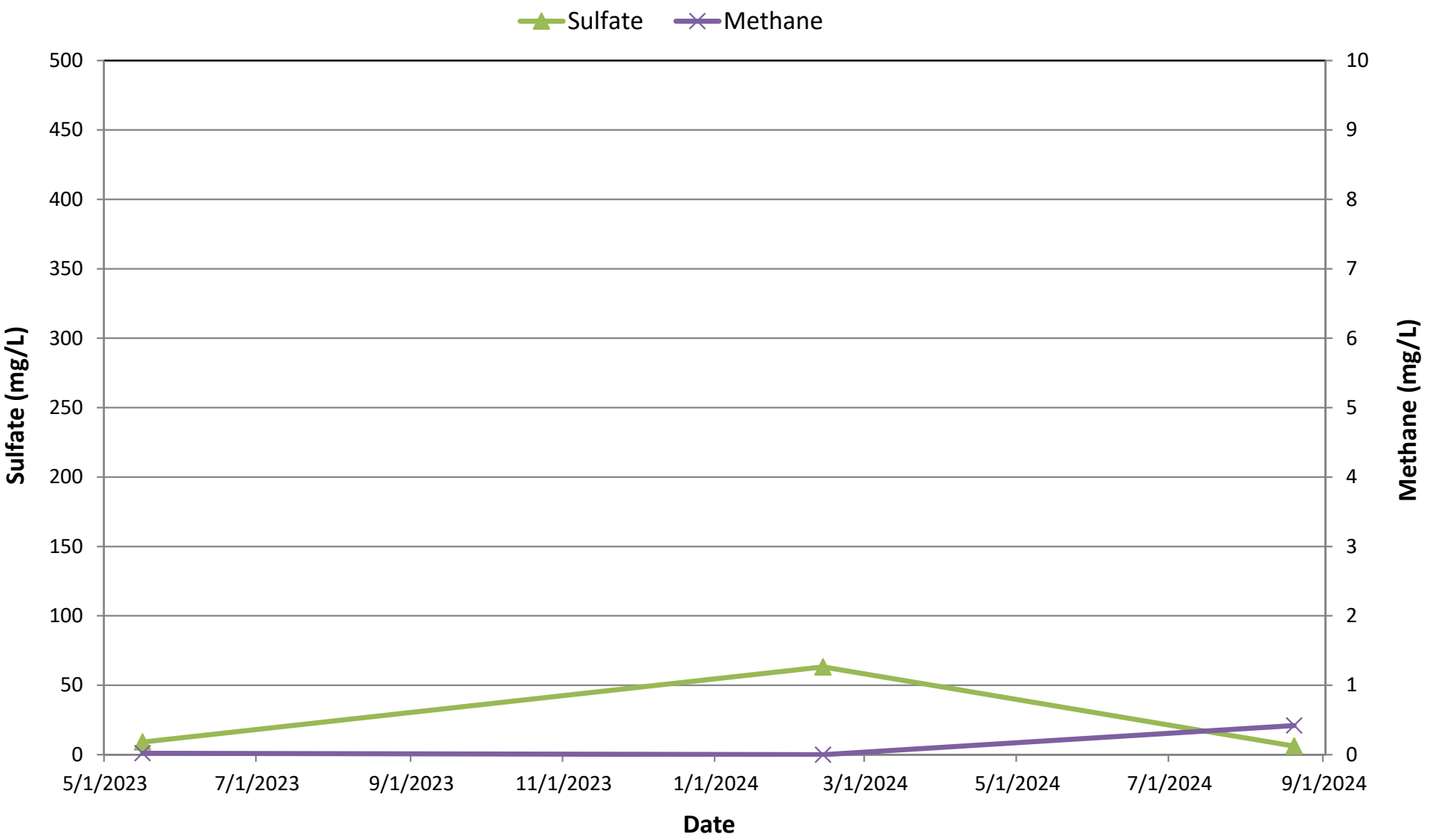
TREND CHART FOR REDOX INDICATORS PART 1 - RU-16 (DOWNGRADIENT)

PROJECT NO:	300-082	CHART:	50
DATE:	1/3/2025		

RU-16 Redox Conditions (Downgradient)



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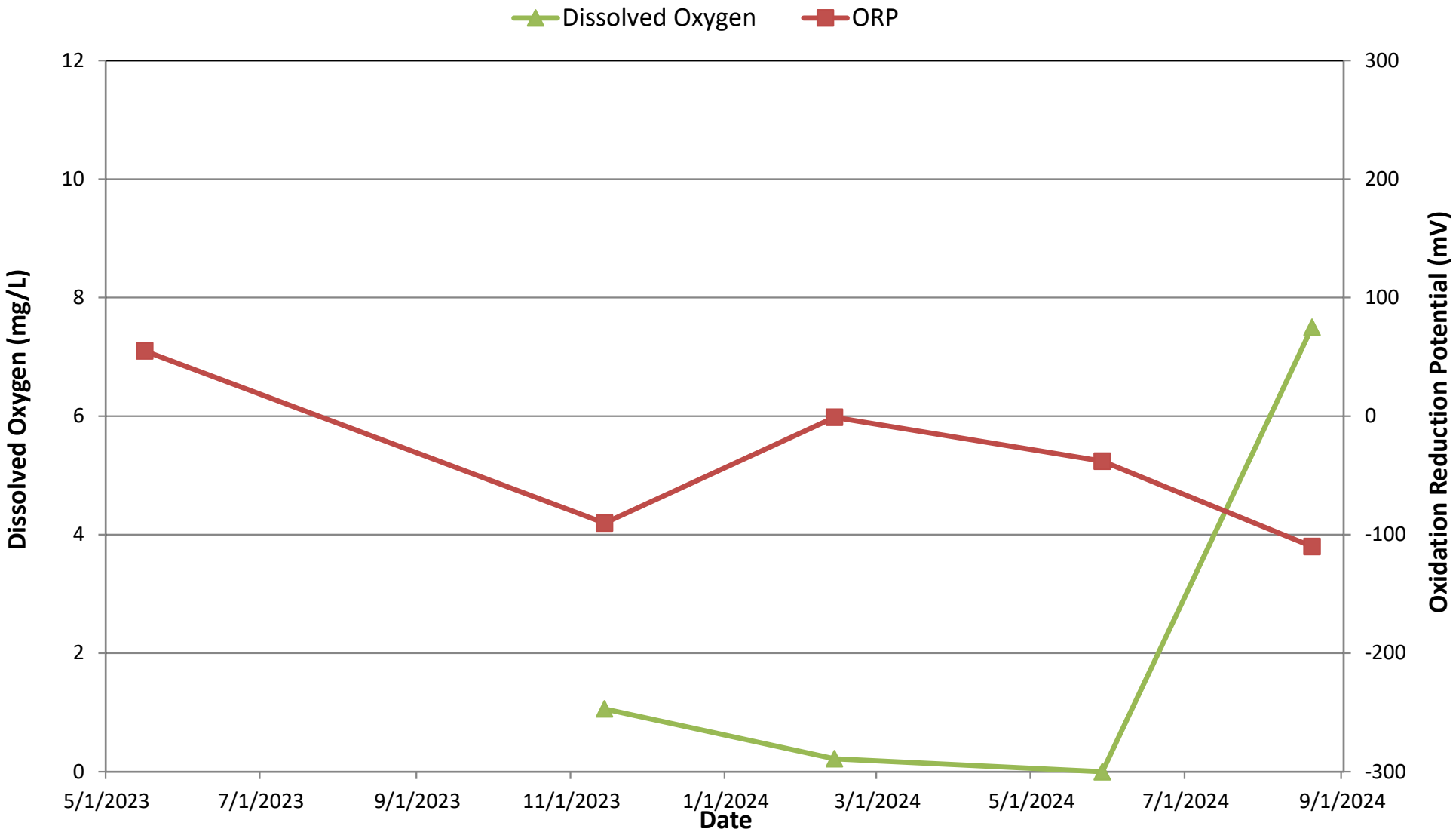
TREND CHART FOR REDOX INDICATORS PART 2 - RU-16 (DOWNGRADIENT)

PROJECT NO:	300-082
DATE:	1/3/2025

CHART: **51**

UA-2 Redox Conditions (Downgradient)



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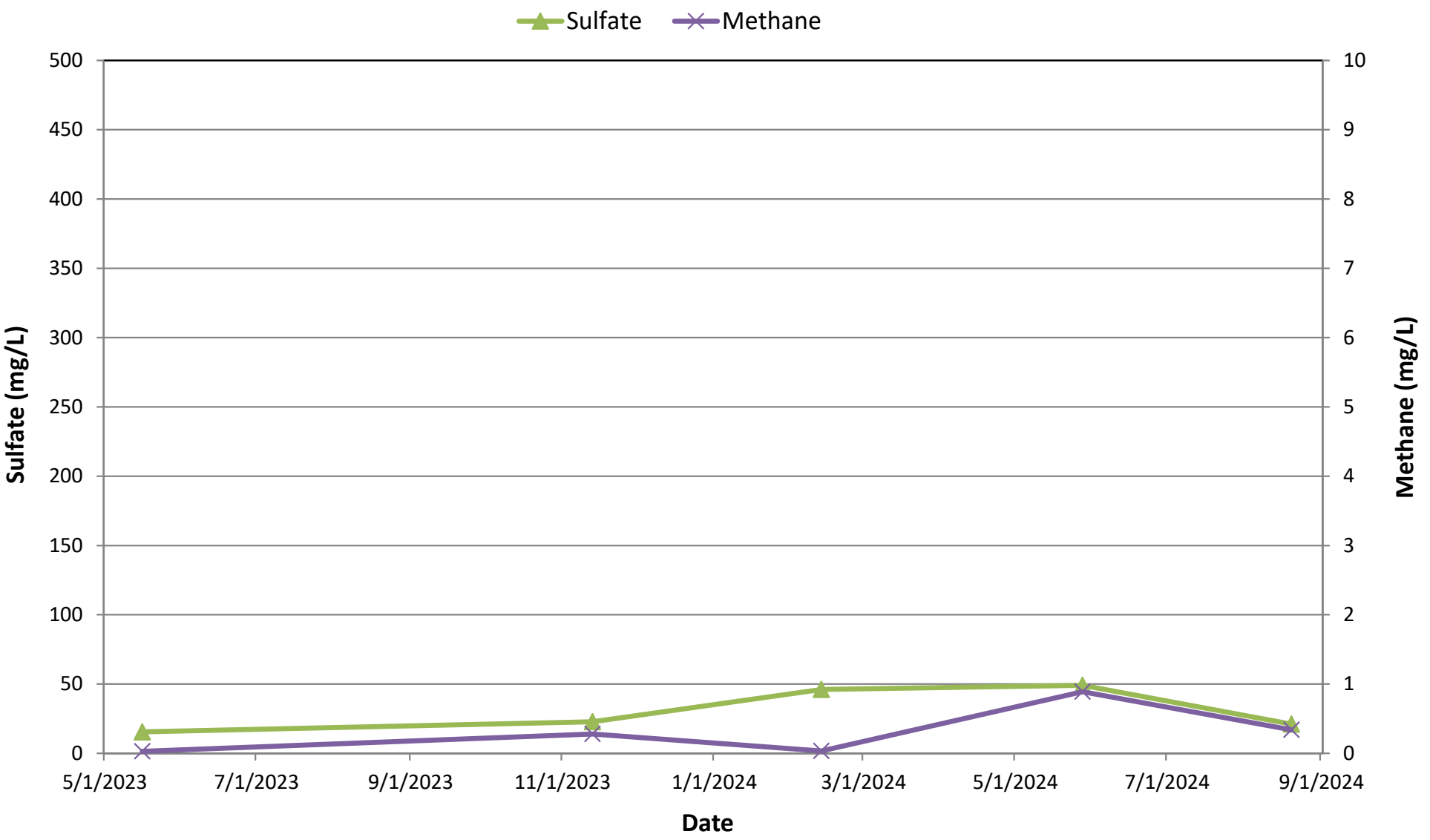
TREND CHART FOR REDOX INDICATORS PART 1 - UA-2 (DOWNGRADIENT)

PROJECT NO:	300-082	CHART:	52
DATE:	1/3/2025		

UA-2 Redox Conditions (Downgradient)



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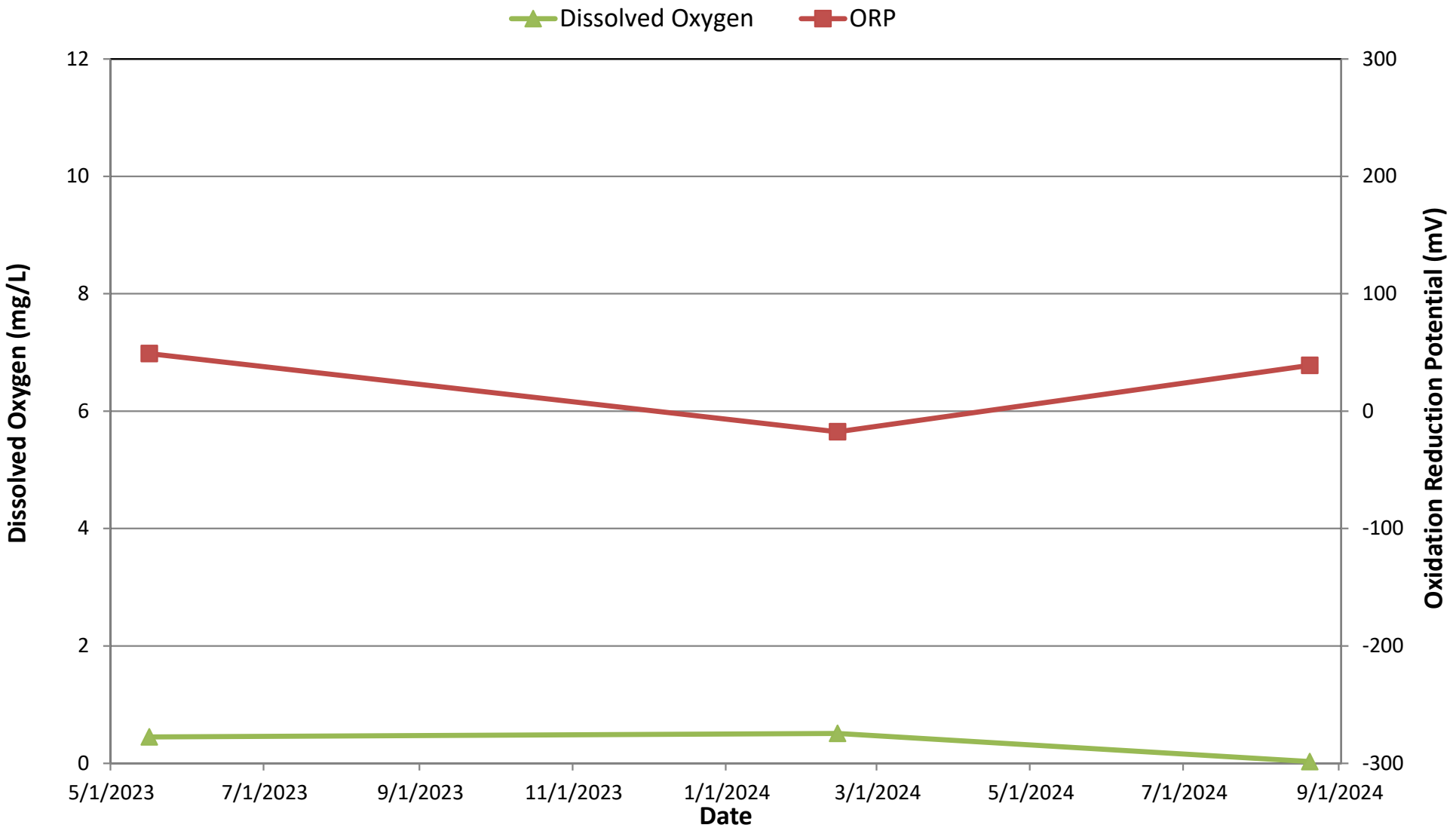
TREND CHART FOR REDOX INDICATORS PART 2 - UA-2 (DOWNGRADIENT)

PROJECT NO:	300-082	CHART:	53
DATE:	1/3/2025		

UA-3 Redox Conditions (Downgradient)



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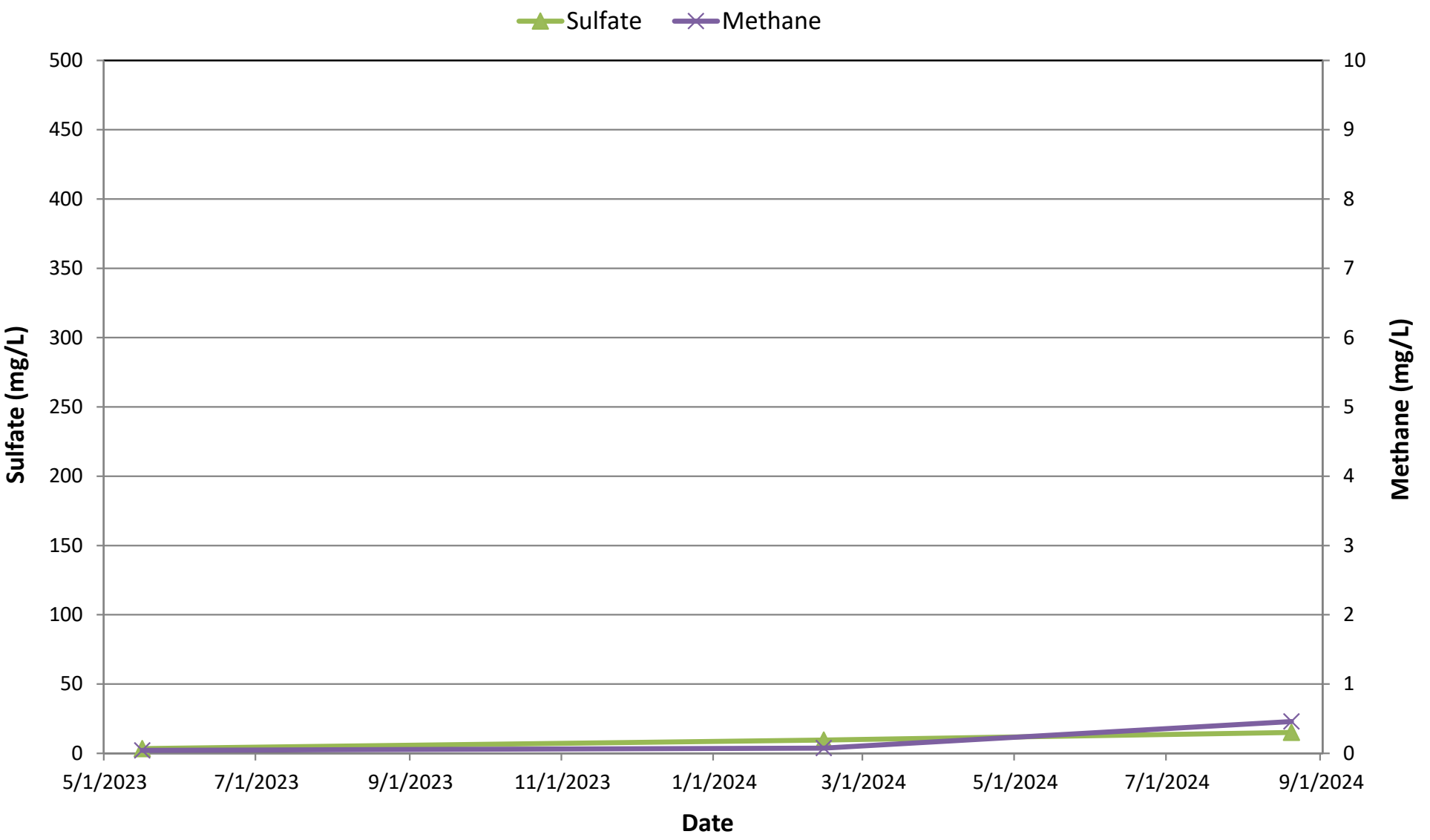
TREND CHART FOR REDOX INDICATORS PART 1 - UA-3 (DOWNGRADIENT)

PROJECT NO:	300-082
DATE:	1/3/2025

CHART: **54**

UA-3 Redox Conditions (Downgradient)



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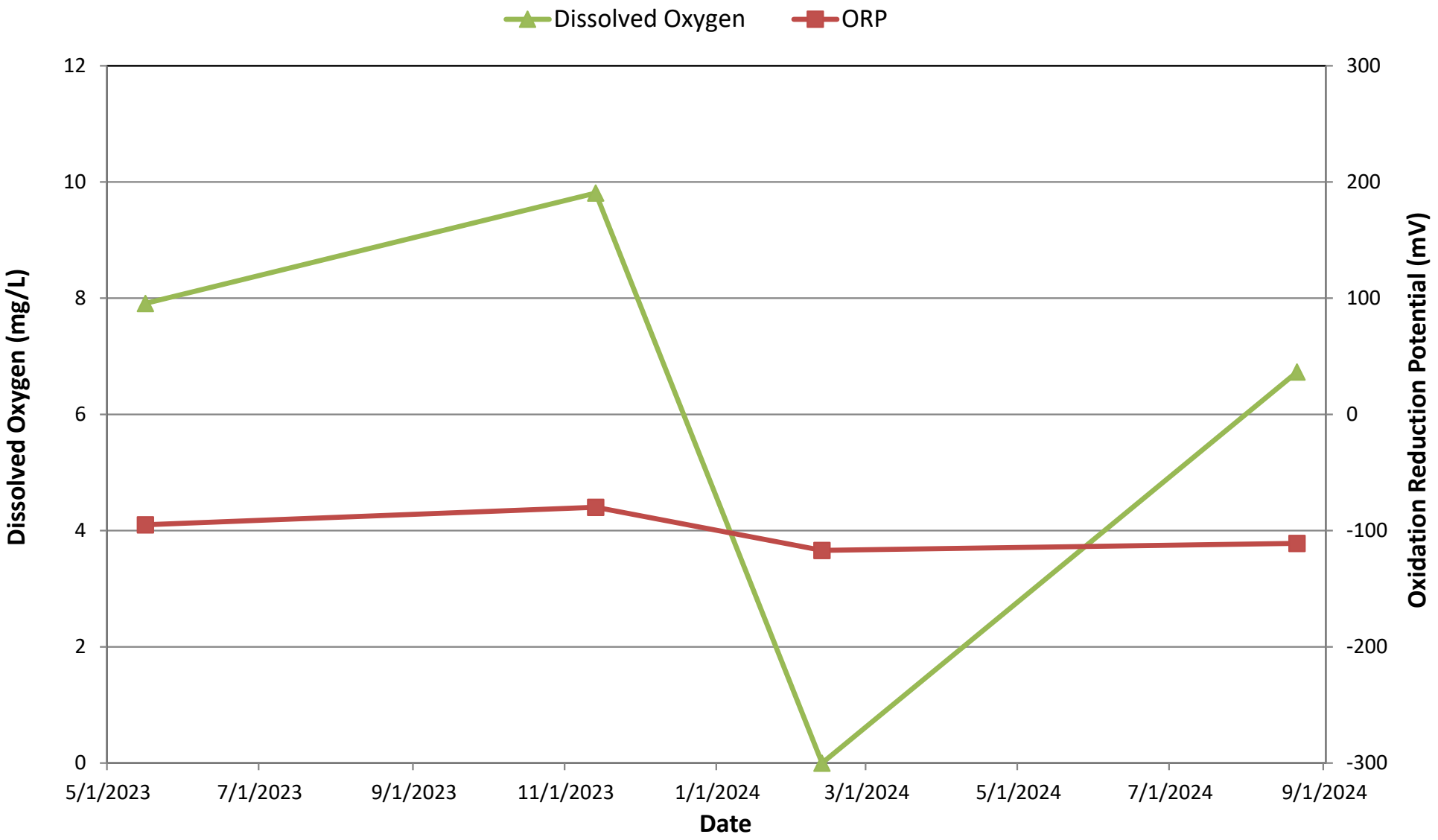
TREND CHART FOR REDOX INDICATORS PART 2 - UA-3 (DOWNGRADIENT)

PROJECT NO:	300-082	CHART:	55
DATE:	1/3/2025		

CW-13 Redox Conditions (Sentinel)



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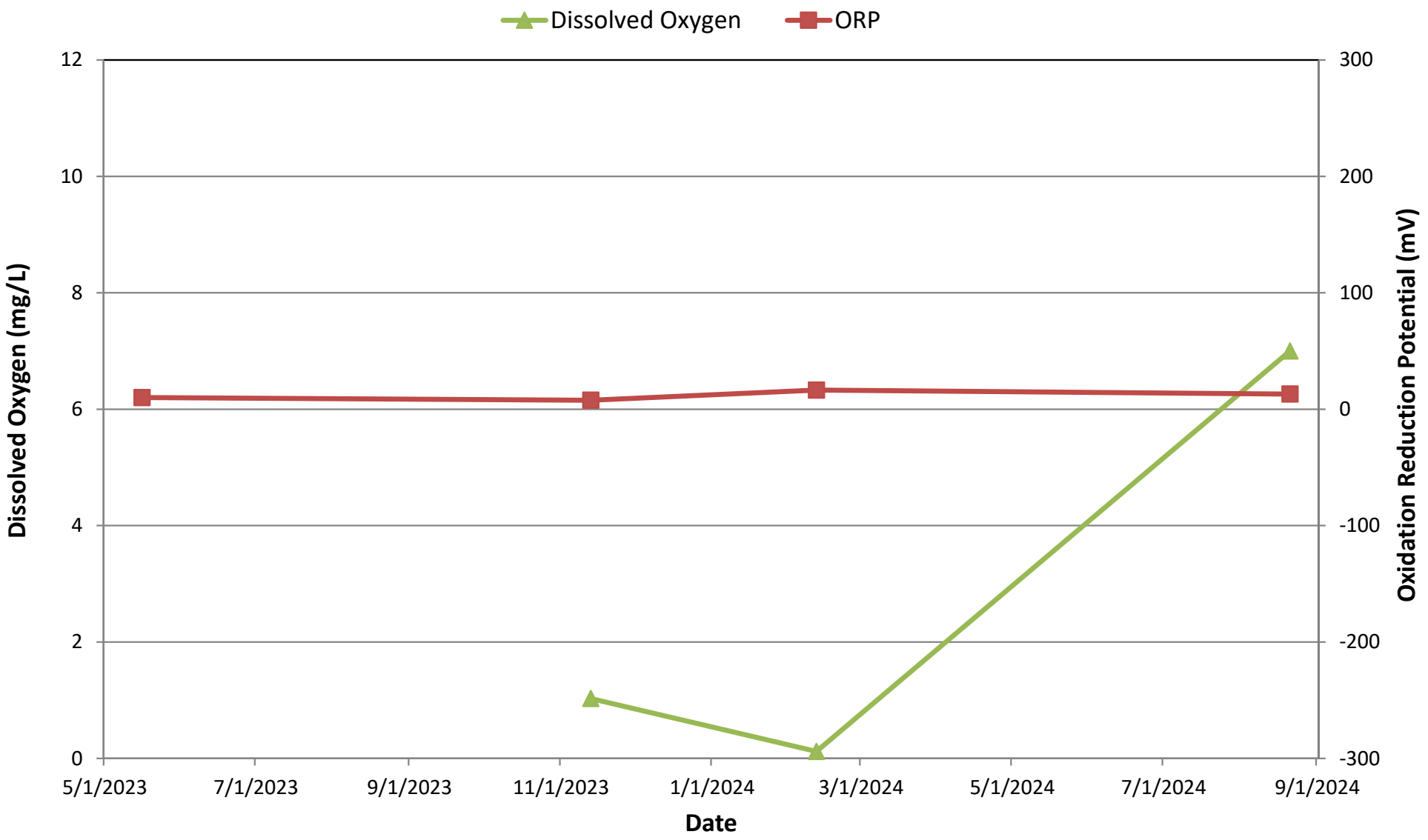
TREND CHART FOR REDOX INDICATORS PART 1 - CW-13 (SENTINEL)

PROJECT NO:	300-082	CHART:	56
DATE:	1/3/2025		

CW-13A Redox Conditions (Sentinel)



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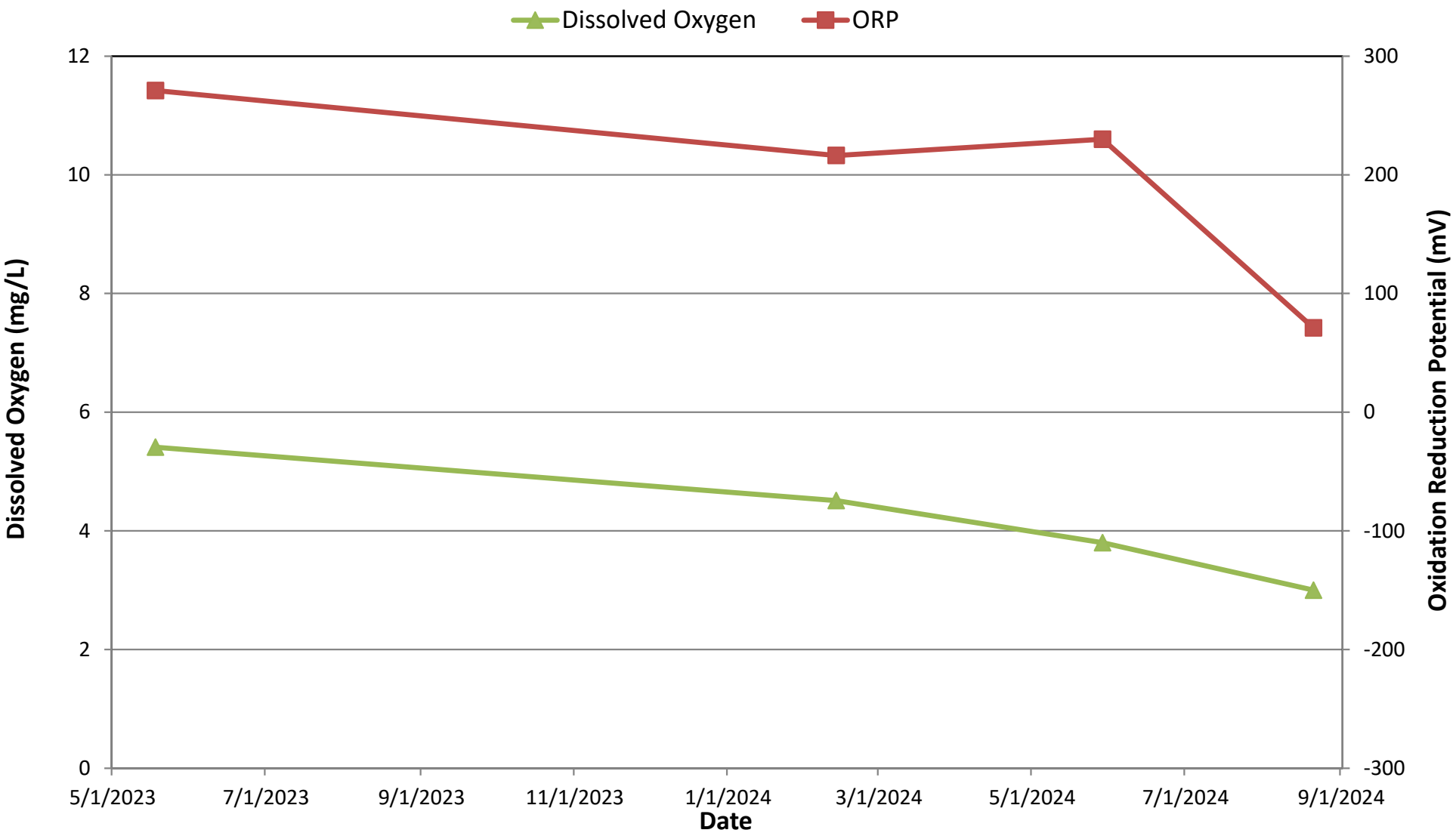
TREND CHART FOR REDOX INDICATORS PART 1 - CW-13A (SENTINEL)

PROJECT NO:	300-082	CHART:	57
DATE:	1/3/2025		

WW-18M Redox Conditions (Sentinel)



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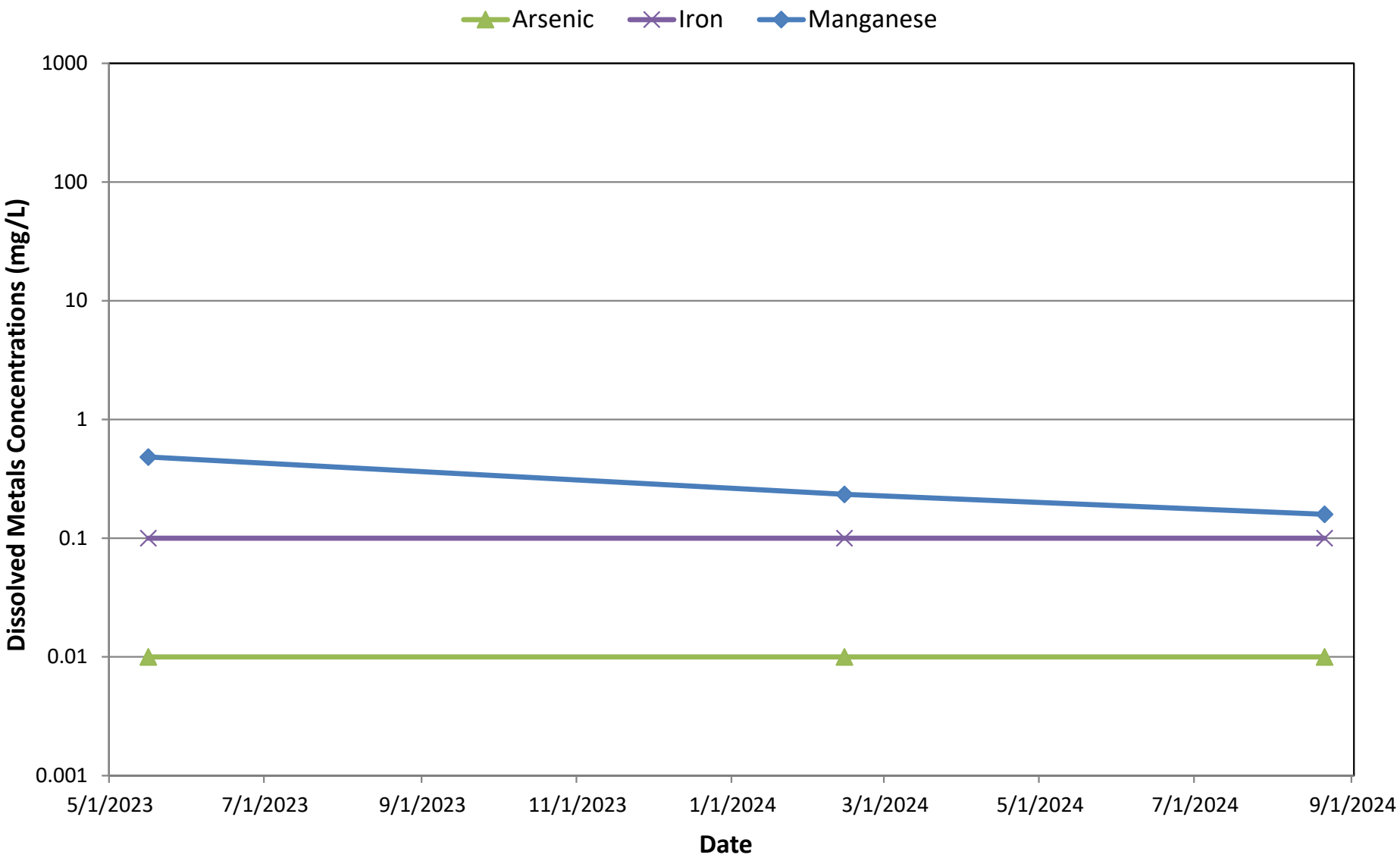
TREND CHART FOR REDOX INDICATORS PART 1 - WW-18M (SENTINEL)

PROJECT NO:	300-082	CHART:	58
DATE:	1/3/2025		

RU-8 Dissolved Metals (Upgradient)



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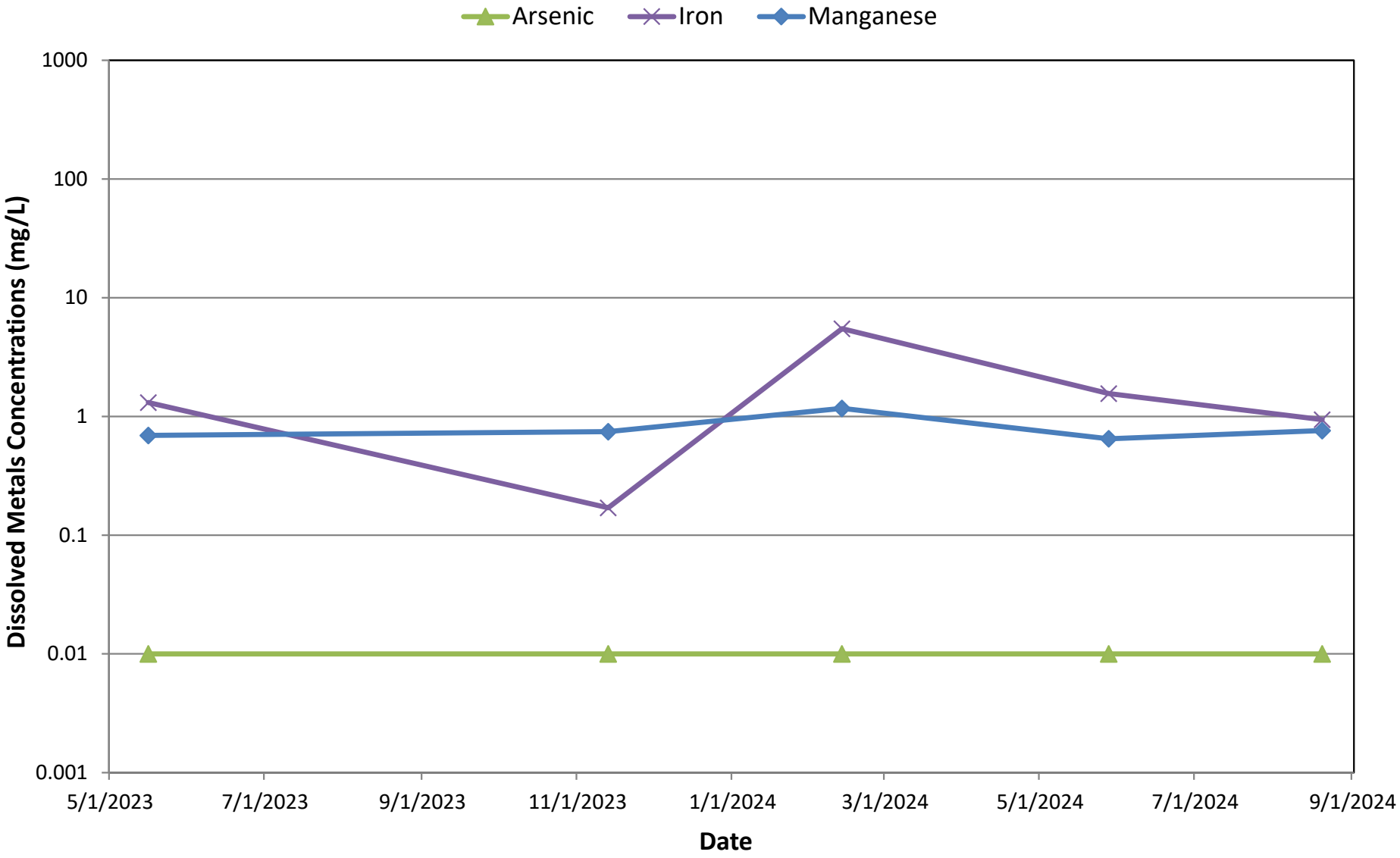
TREND CHART FOR DISSOLVED METALS - RU-8 (UPGRADIENT)

PROJECT NO:	300-082	CHART:	59
DATE:	1/3/2025		

RU-15 Dissolved Metals (Upgradient)



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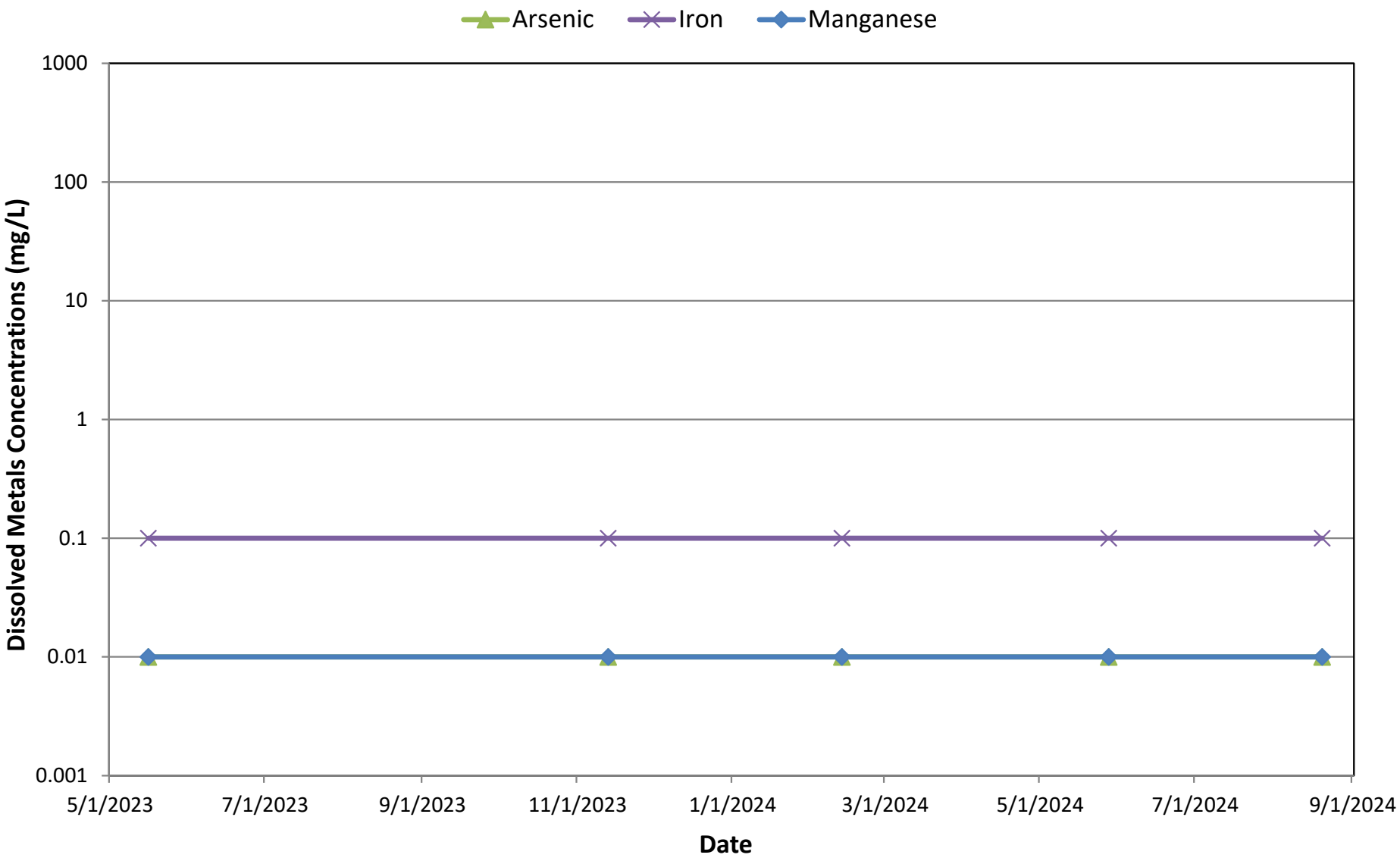
TREND CHART FOR DISSOLVED METALS - RU-15 (UPGRADIENT)

PROJECT NO:	300-082	CHART:	60
DATE:	1/3/2025		

RU-9 Dissolved Metals (Treatment Area)



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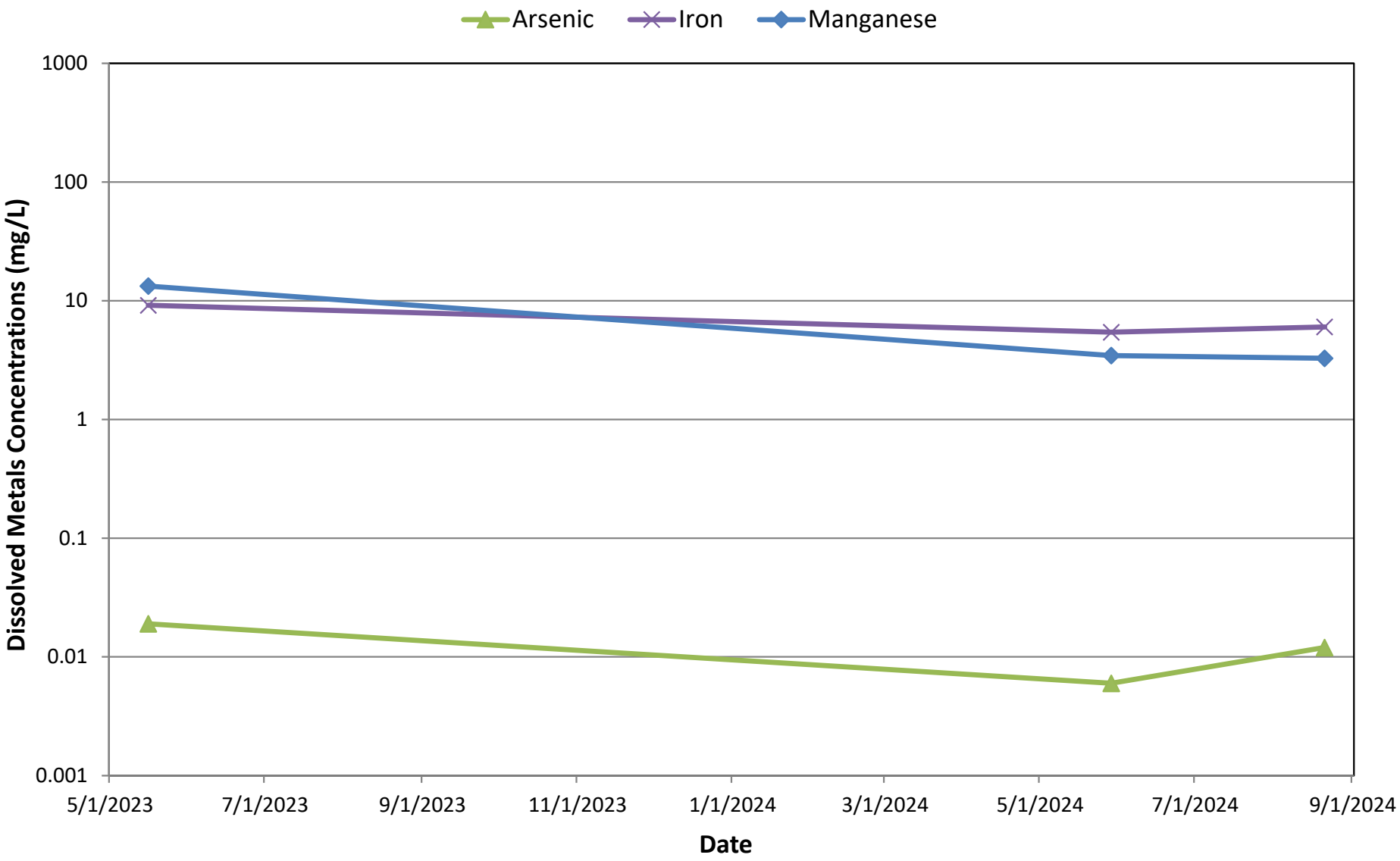
TREND CHART FOR DISSOLVED METALS - RU-9 (TREATMENT AREA)

PROJECT NO:	300-082	CHART:	61
DATE:	1/3/2025		

RU-10 Dissolved Metals (Treatment Area)



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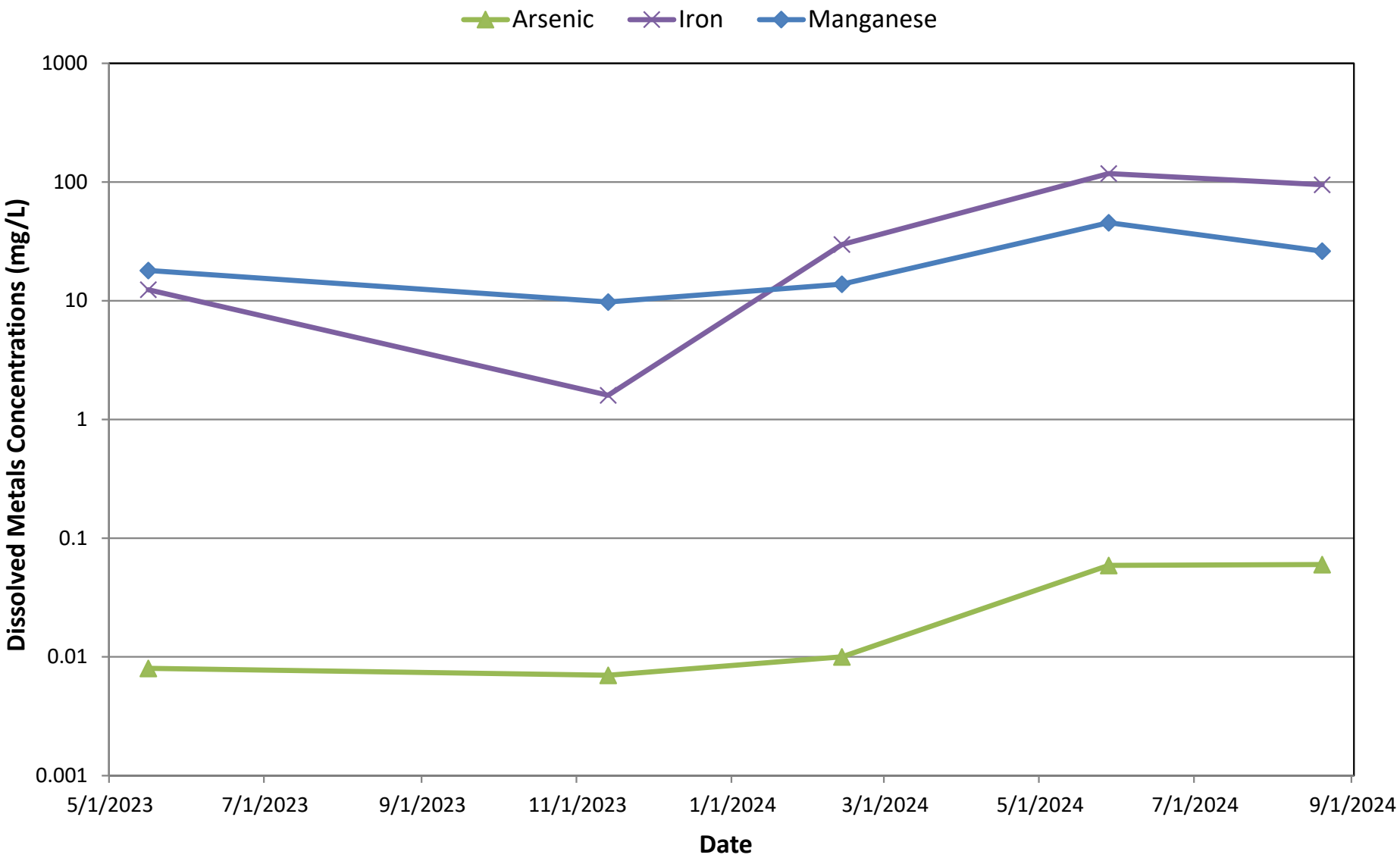
TREND CHART FOR DISSOLVED METALS - RU-10 (TREATMENT AREA)

PROJECT NO:	300-082	CHART:	62
DATE:	1/3/2025		

RU-19 Dissolved Metals (Treatment Area)



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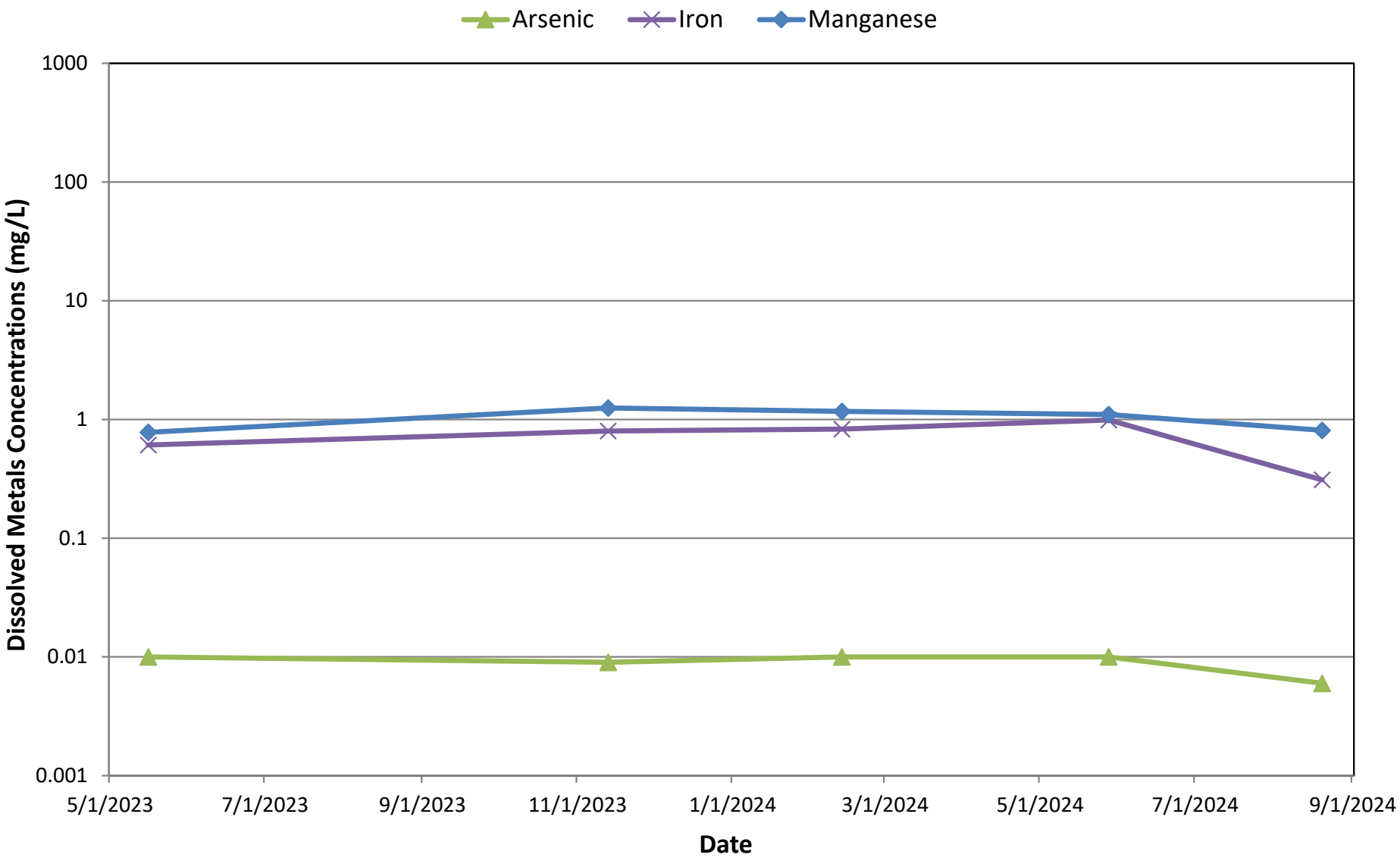
TREND CHART FOR DISSOLVED METALS - RU-19 (TREATMENT AREA)

PROJECT NO:	300-082	CHART:	63
DATE:	1/3/2025		

RU-20 Dissolved Metals (Treatment Area)



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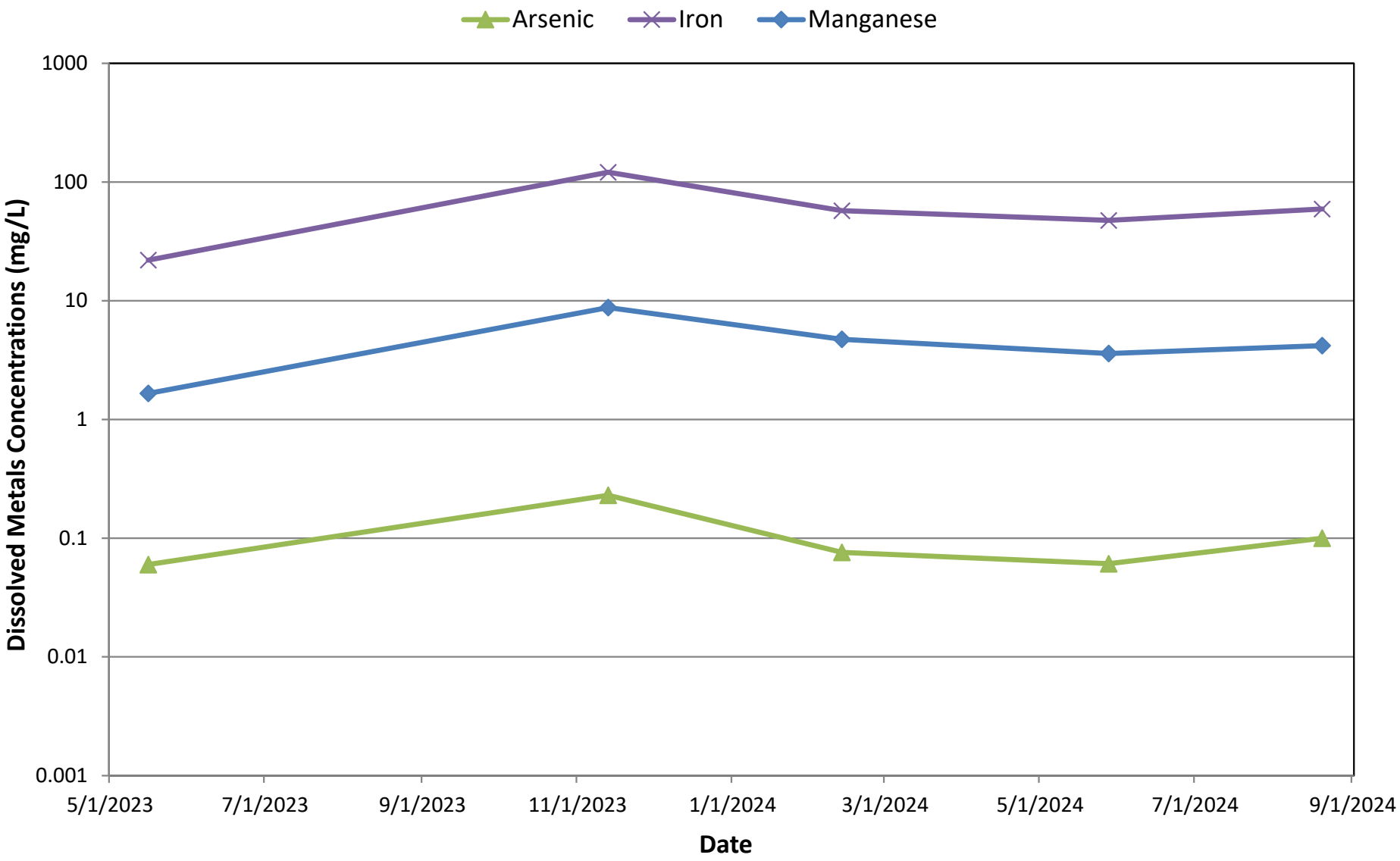
TREND CHART FOR DISSOLVED METALS - RU-20 (TREATMENT AREA)

PROJECT NO:	300-082	CHART:	64
DATE:	1/3/2025		

RU-21 Dissolved Metals (Treatment Area)



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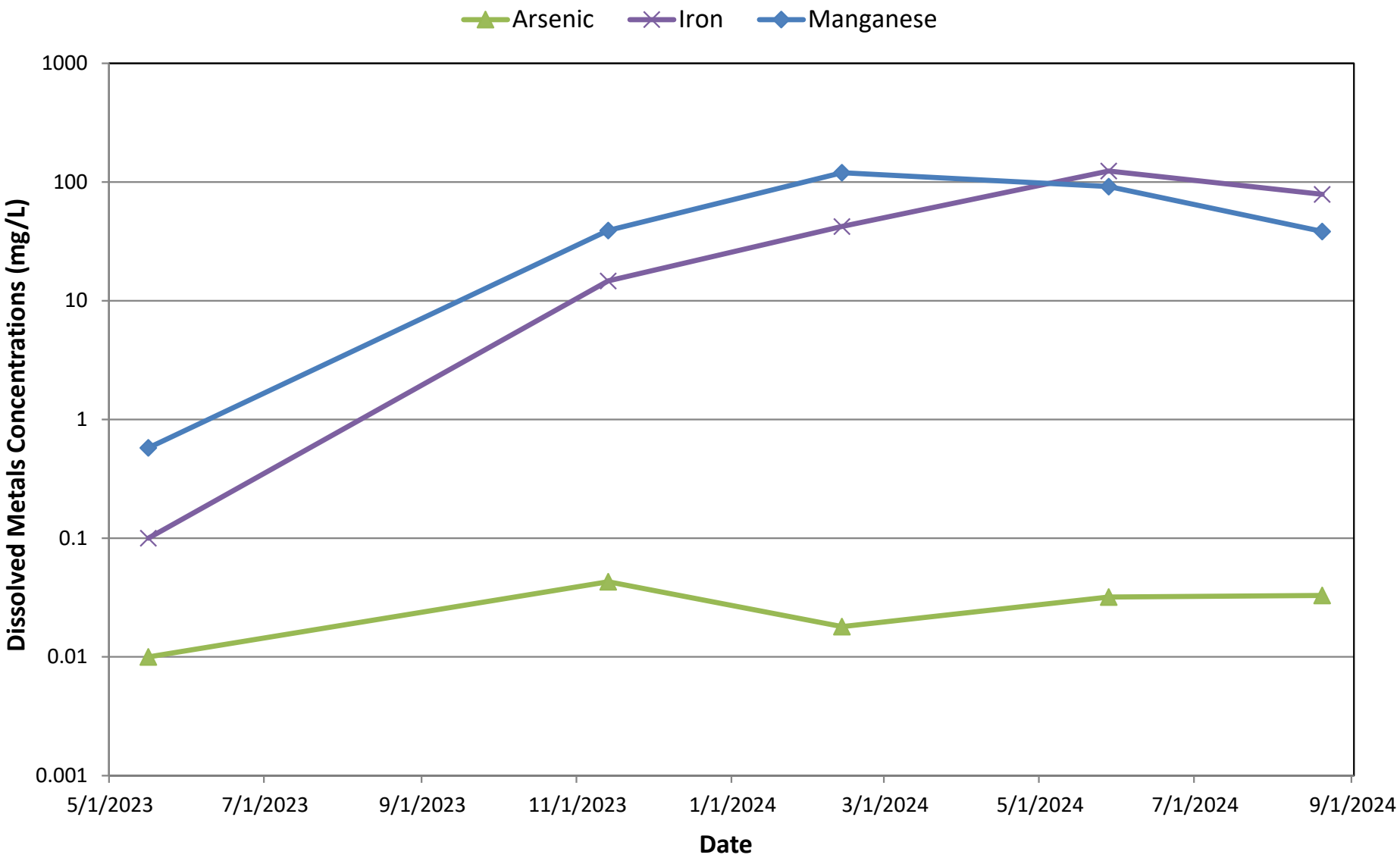
TREND CHART FOR DISSOLVED METALS - RU-21 (TREATMENT AREA)

PROJECT NO:	300-082	CHART:	65
DATE:	1/3/2025		

RU-27A Dissolved Metals (Treatment Area)



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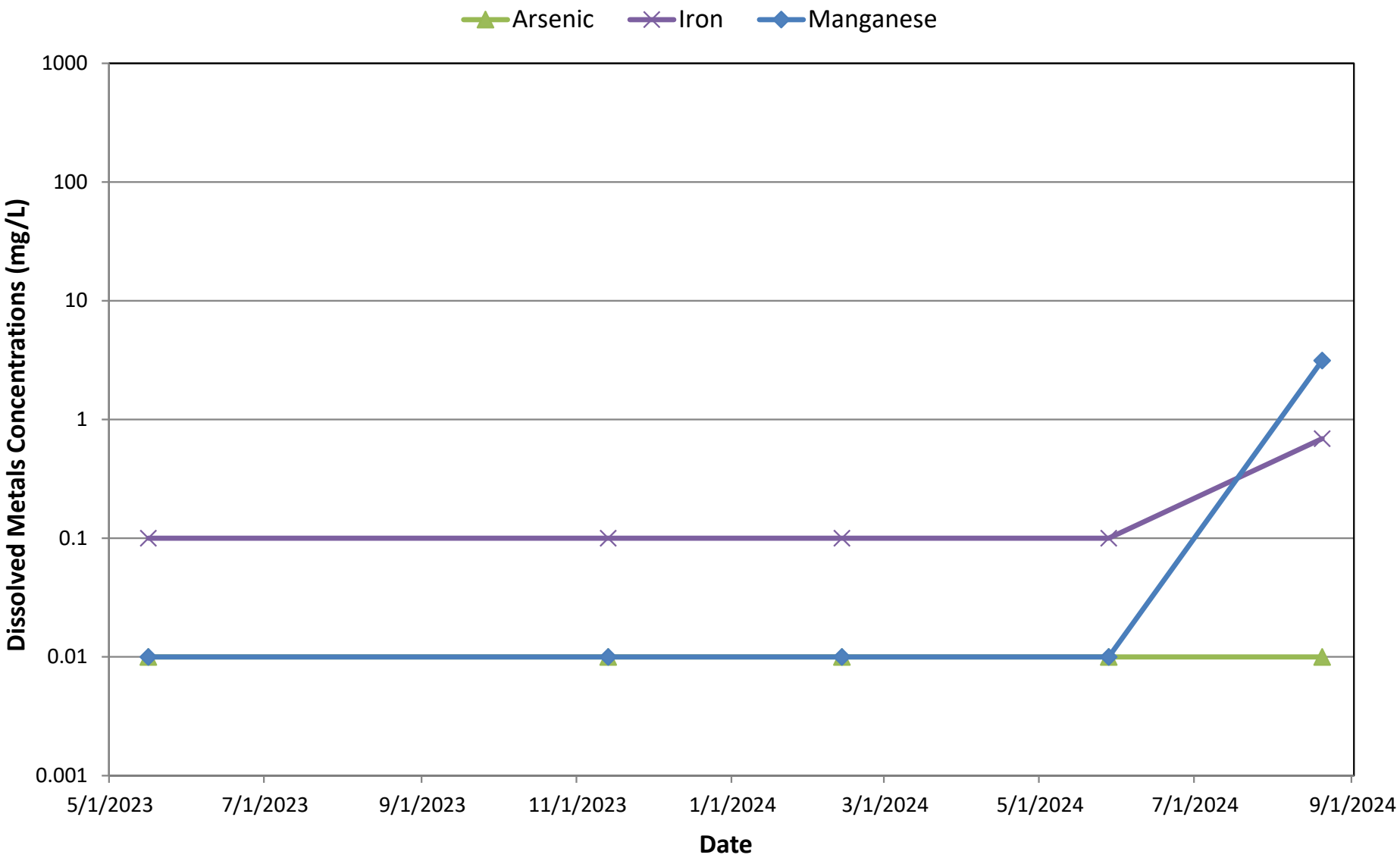
TREND CHART FOR DISSOLVED METALS - RU-27A (TREATMENT AREA)

PROJECT NO:	300-082	CHART:	66
DATE:	1/3/2025		

RU-28 Dissolved Metals (Treatment Area)



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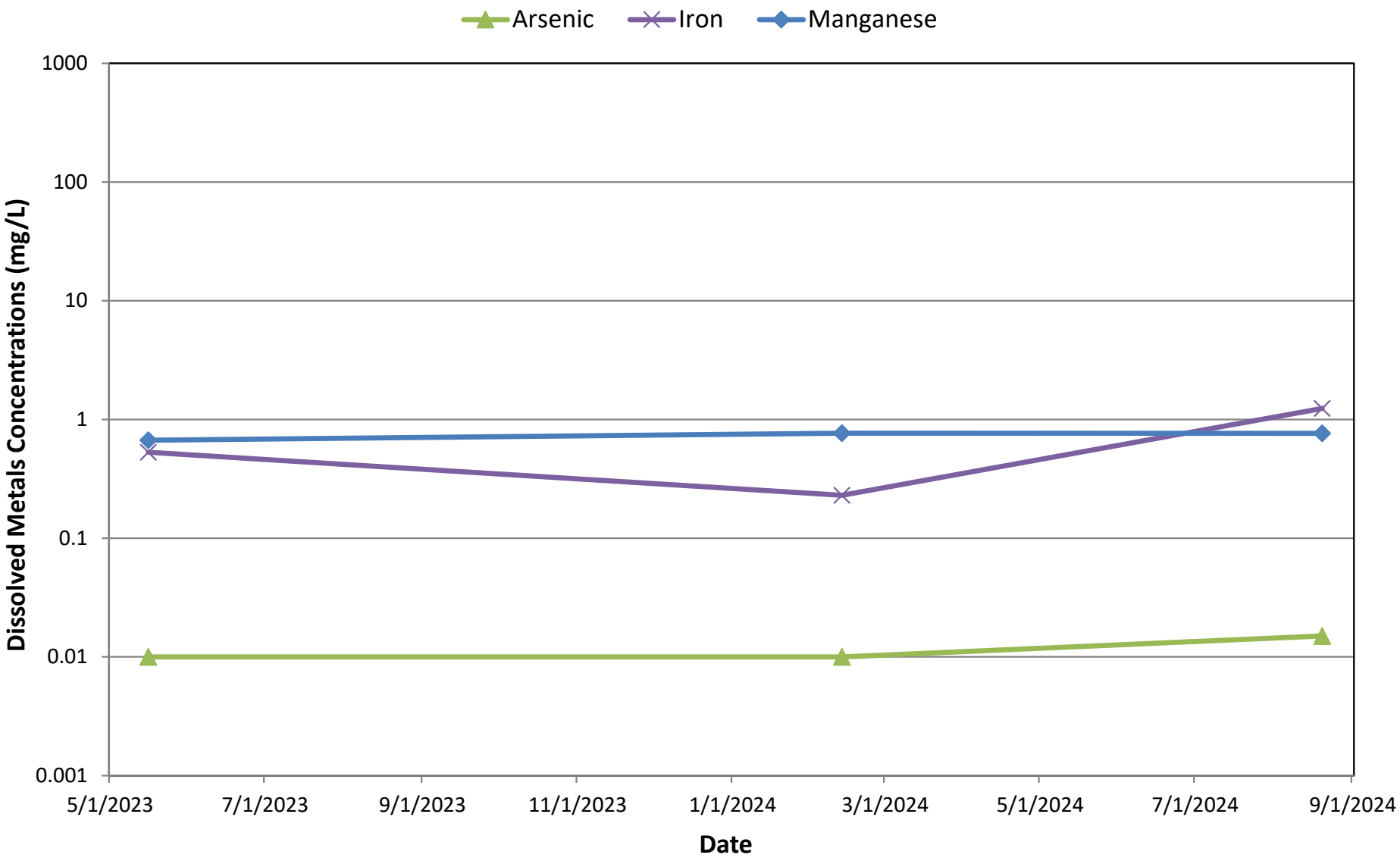
TREND CHART FOR DISSOLVED METALS - RU-28 (TREATMENT AREA)

PROJECT NO:	300-082	CHART:	67
DATE:	1/3/2025		

RU-11 Dissolved Metals (Downgradient)



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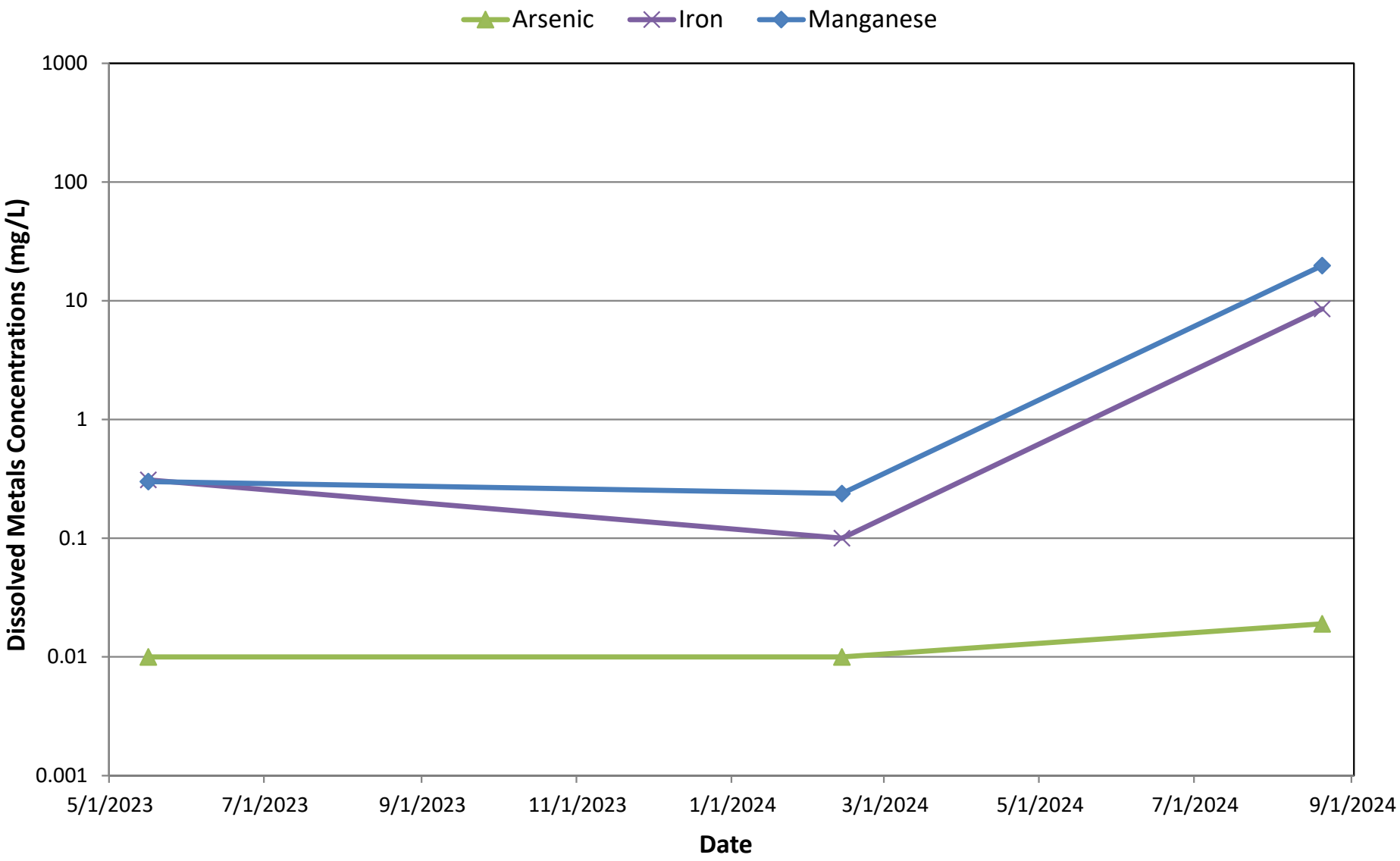
TREND CHART FOR DISSOLVED METALS - RU-11 (DOWNGRADIENT)

PROJECT NO:	300-082	CHART:	68
DATE:	1/3/2025		

RU-16 Dissolved Metals (Downgradient)



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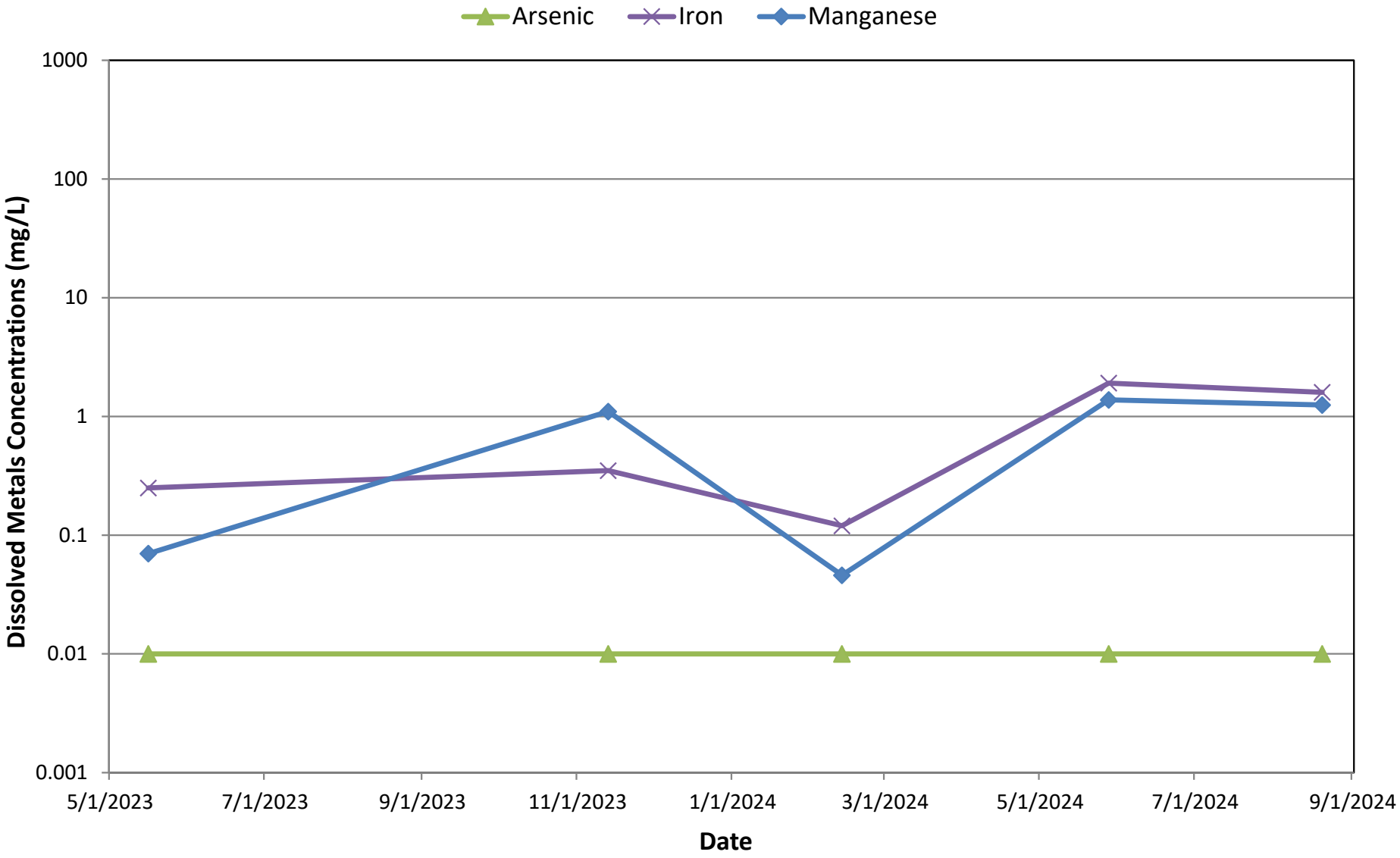
TREND CHART FOR DISSOLVED METALS - RU-16 (DOWNGRADIENT)

PROJECT NO:	300-082	CHART:	69
DATE:	1/3/2025		

UA-2 Dissolved Metals (Downgradient)



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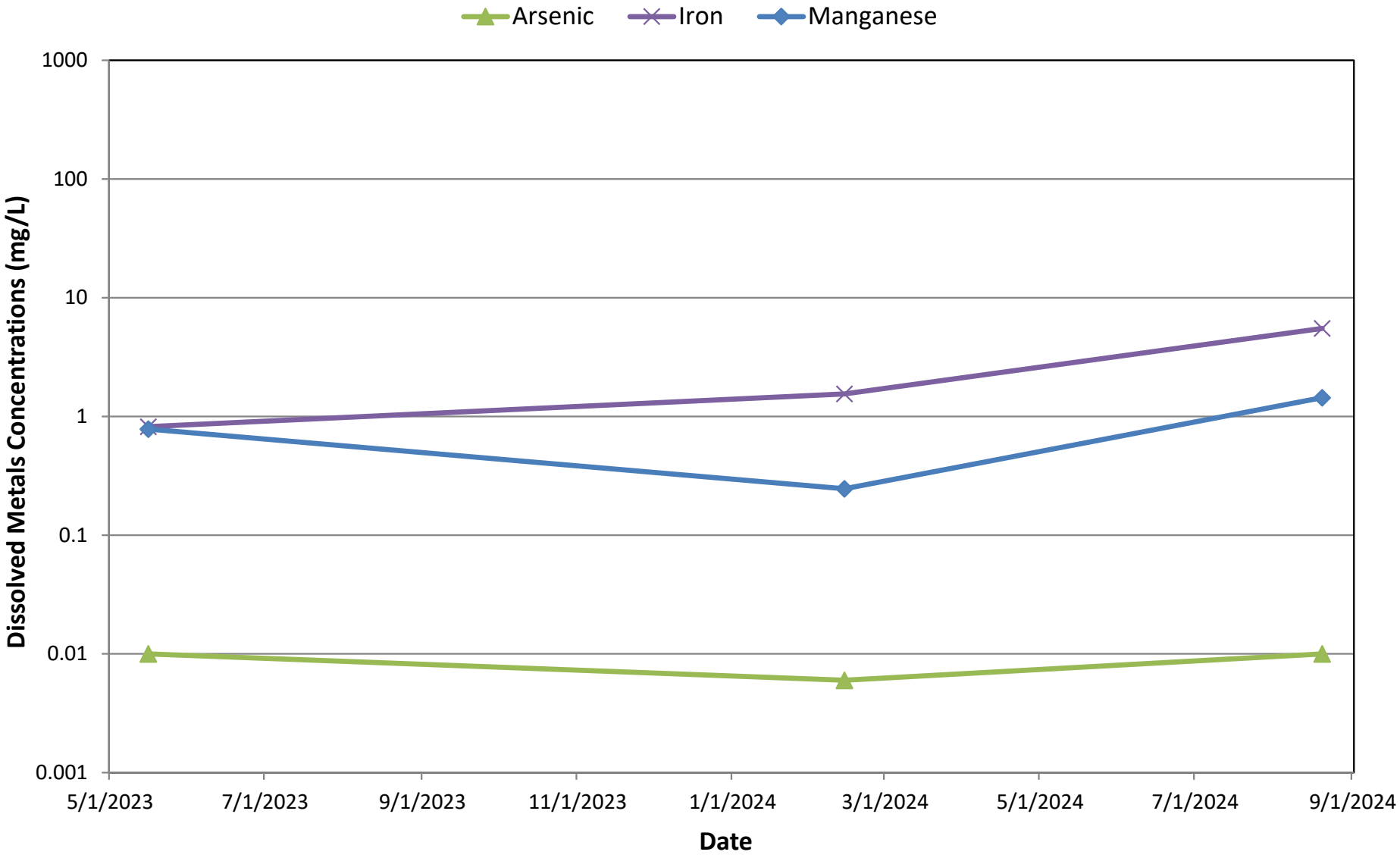
TREND CHART FOR DISSOLVED METALS - UA-2 (DOWNGRADIENT)

PROJECT NO:	300-082	CHART:	70
DATE:	1/3/2025		

UA-3 Dissolved Metals (Downgradient)



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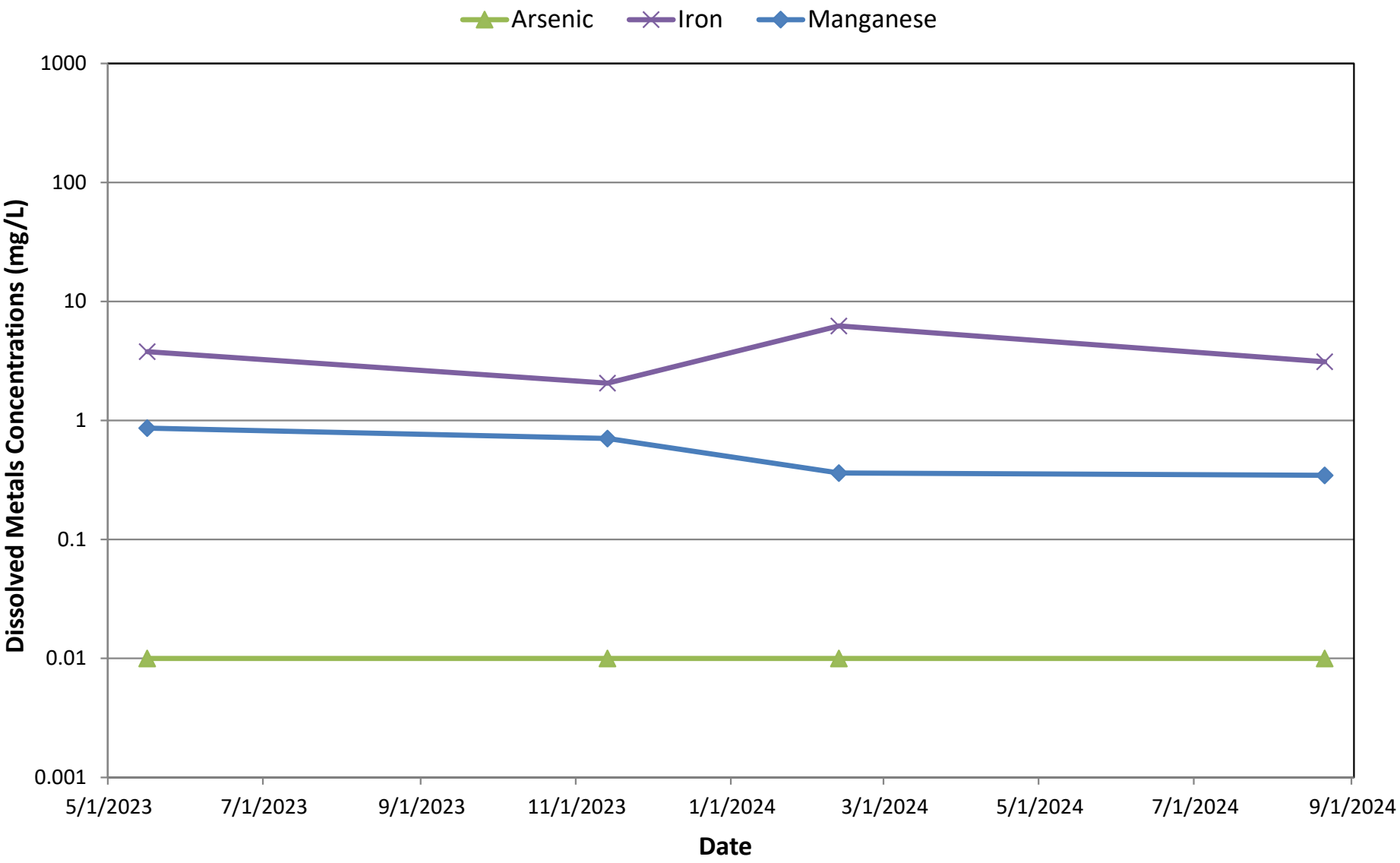
TREND CHART FOR DISSOLVED METALS - UA-3 (DOWNGRADIENT)

PROJECT NO:	300-082	CHART:	71
DATE:	1/3/2025		

CW-13 Dissolved Metals (Sentinel)



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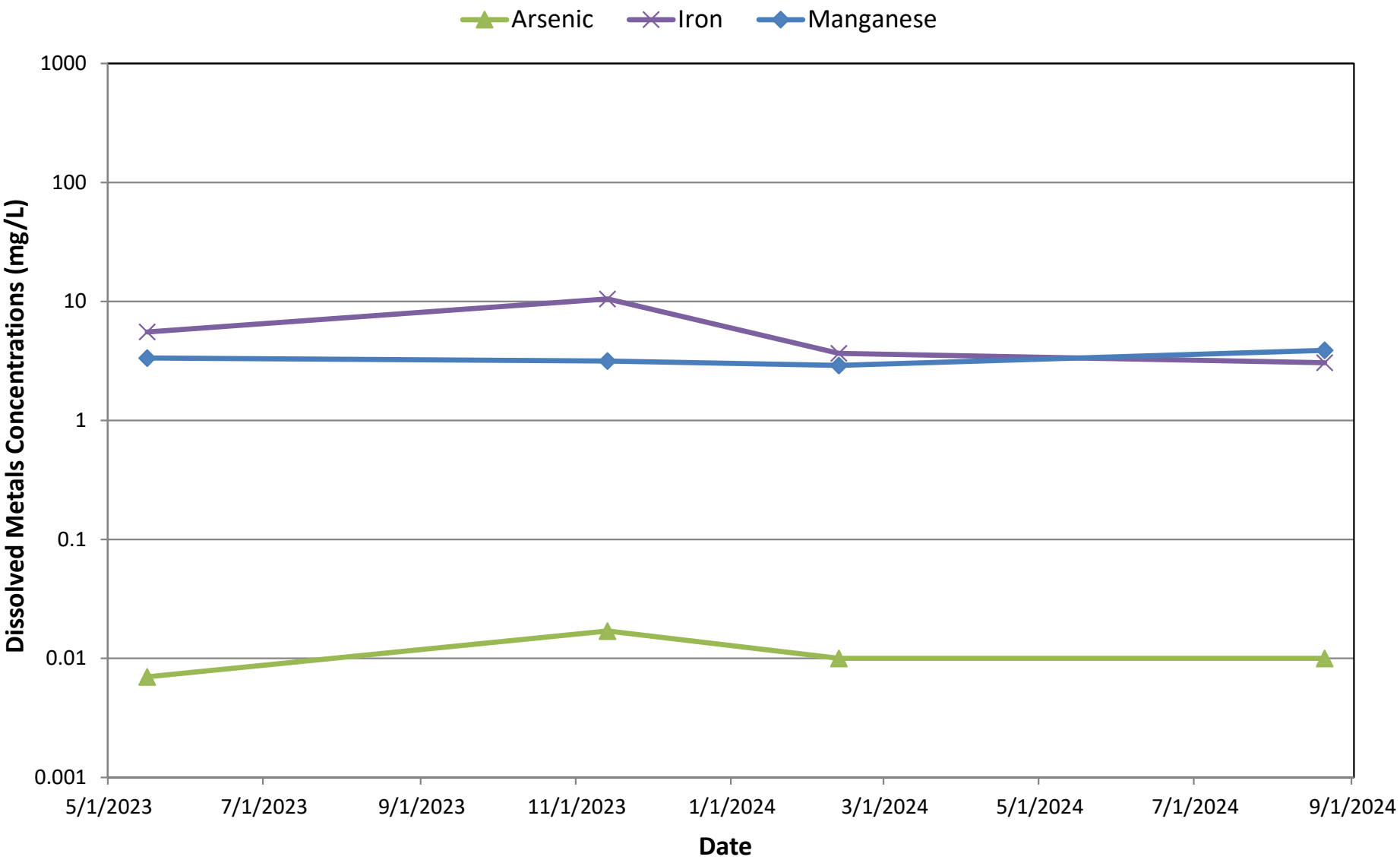
TREND CHART FOR DISSOLVED METALS - CW-13 (SENTINEL)

PROJECT NO:	300-082	CHART:	72
DATE:	1/3/2025		

CW-13A Dissolved Metals (Sentinel)



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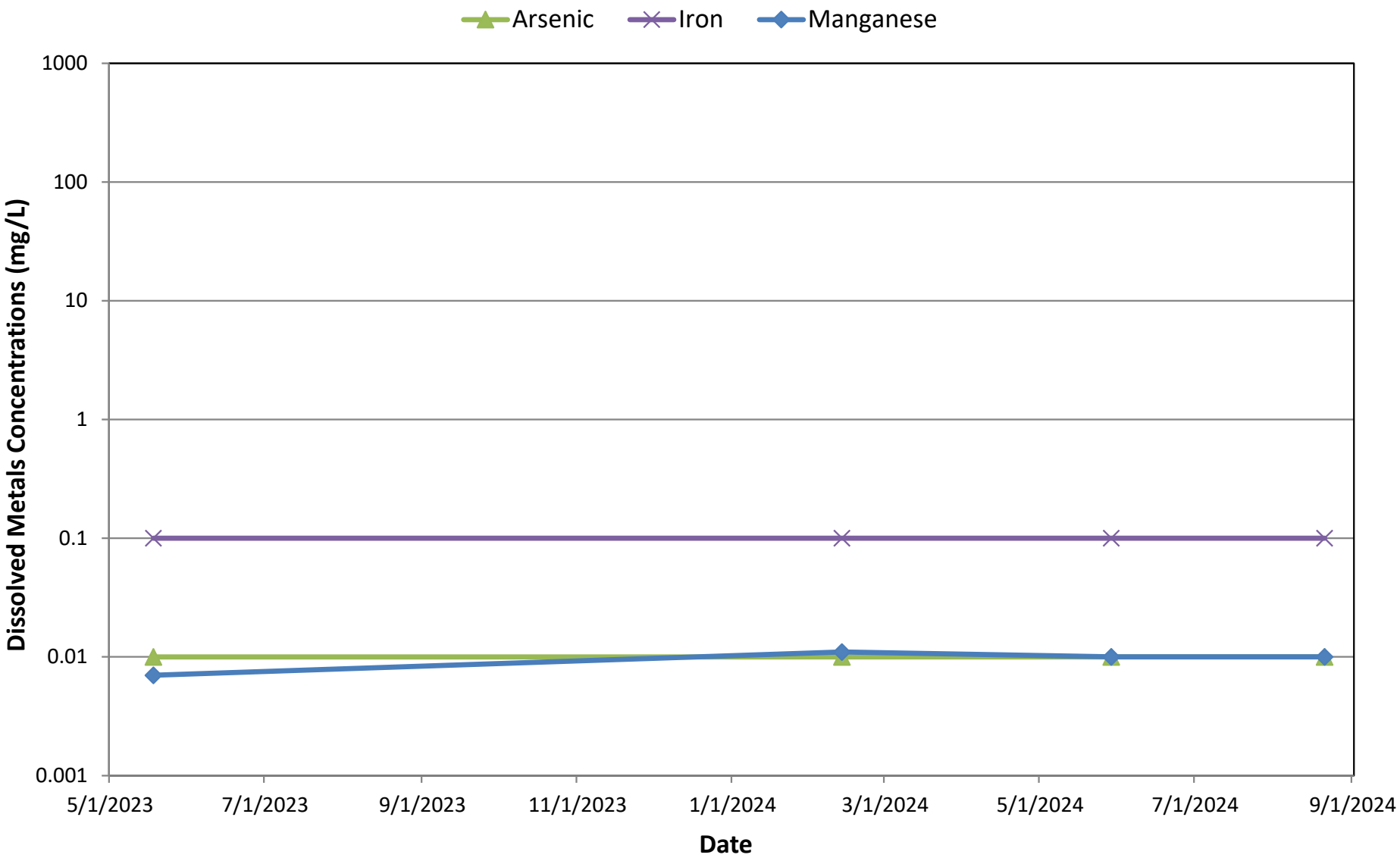
TREND CHART FOR DISSOLVED METALS - CW-13A (SENTINEL)

PROJECT NO:	300-082	CHART:	73
DATE:	1/3/2025		

WW-18M Dissolved Metals (Sentinel)



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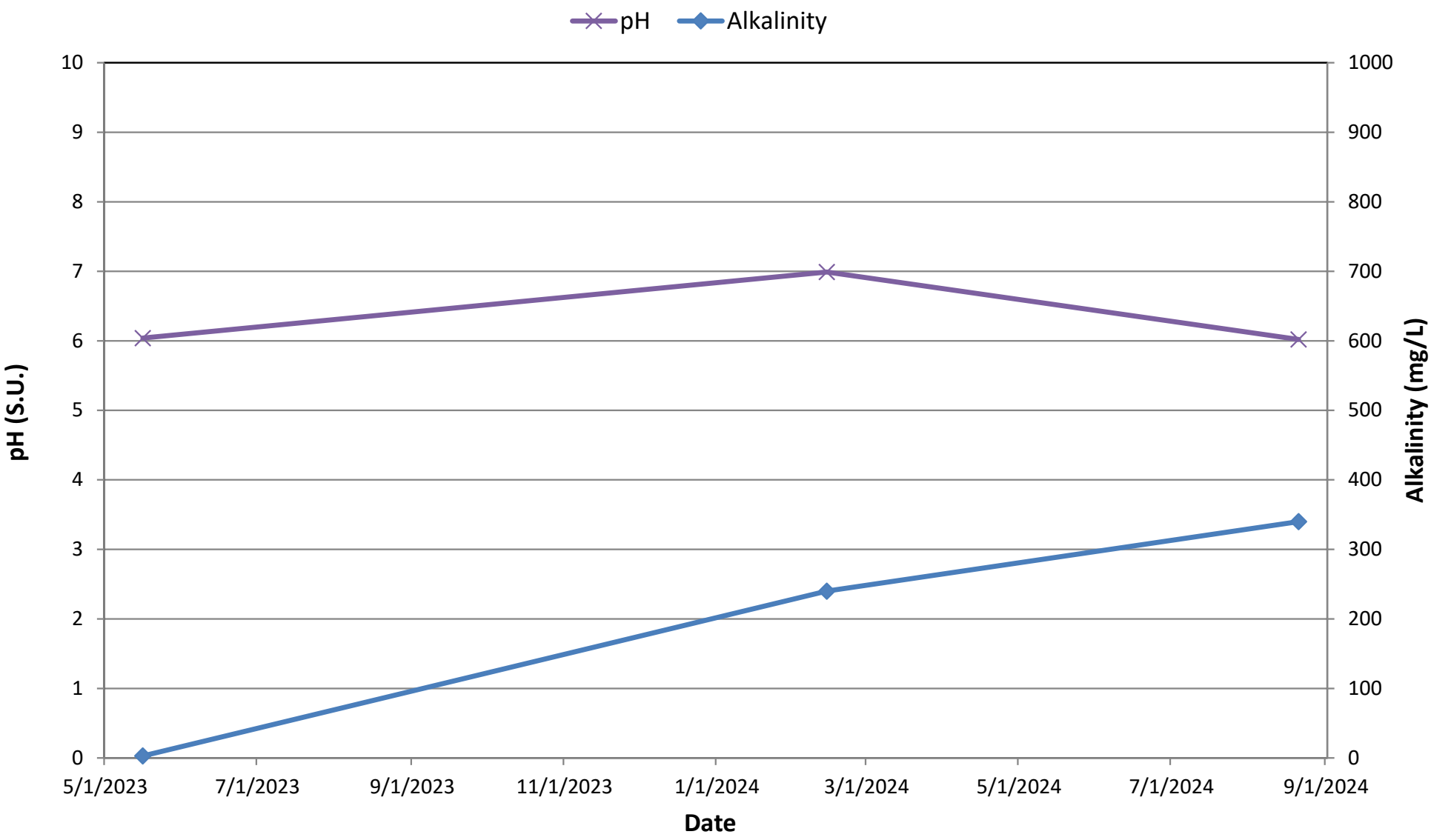
TREND CHART FOR DISSOLVED METALS - WW-18M (SENTINEL)

PROJECT NO:	300-082	CHART:	74
DATE:	1/3/2025		

RU-8 Biological Indicators (Upgradient)



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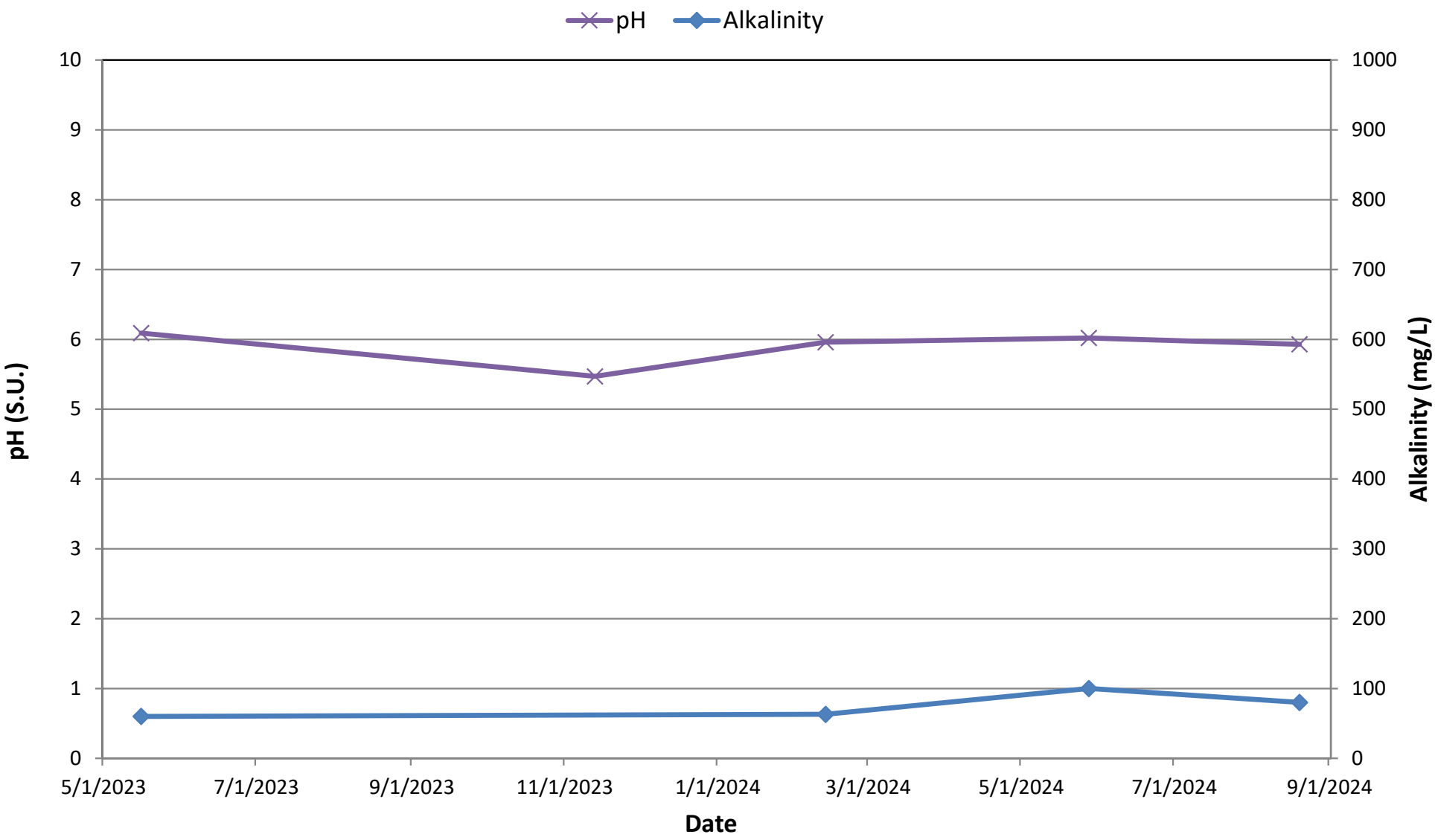
TREND CHART FOR BIOLOGICAL PARAMETERS - RU-8 (UPGRADIENT)

PROJECT NO:	300-082	CHART:	75
DATE:	1/3/2025		

RU-15 Biological Indicators (Upgradient)



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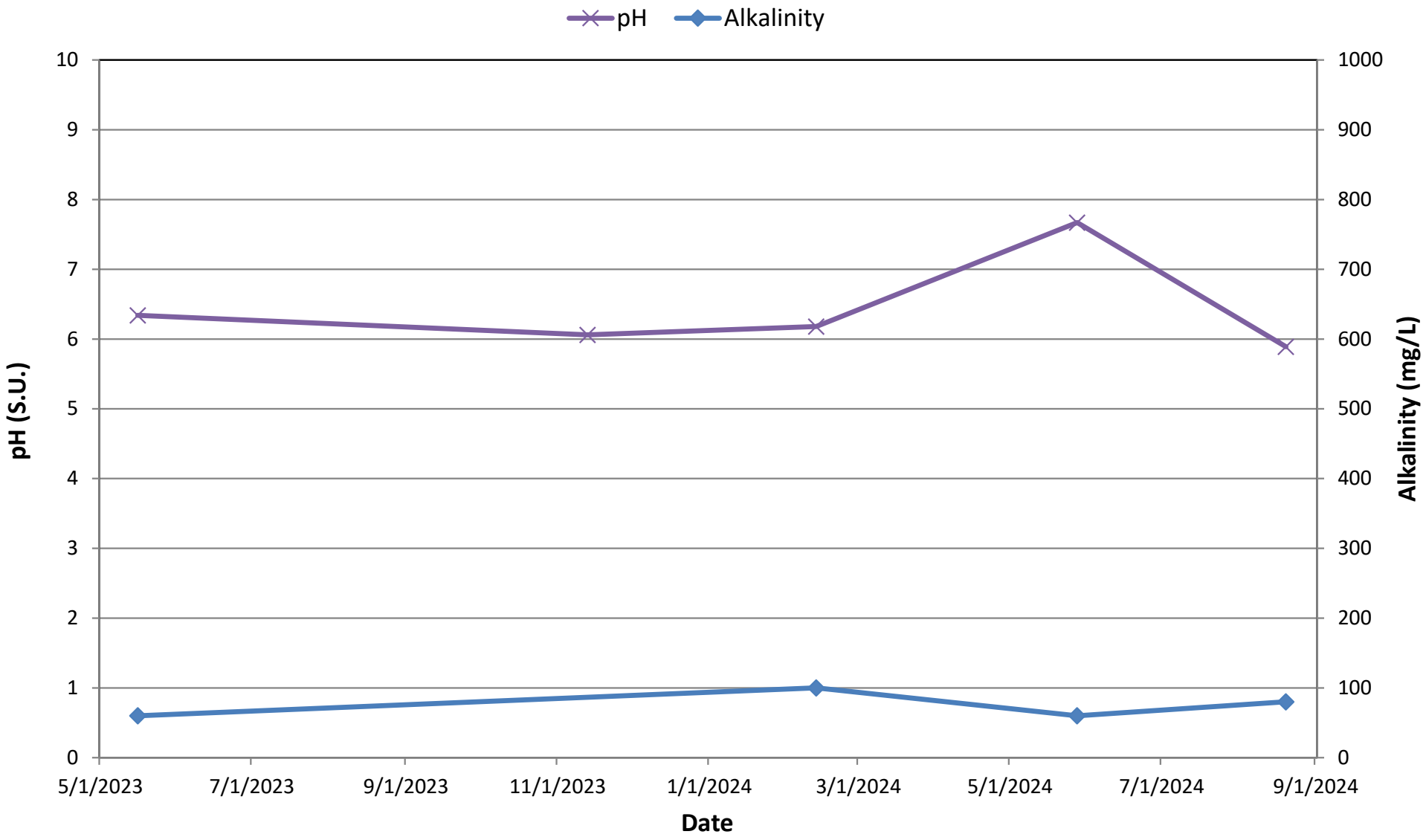
TREND CHART FOR BIOLOGICAL PARAMETERS - RU-15 (UPGRADIENT)

PROJECT NO:	300-082	CHART:	76
DATE:	1/3/2025		

RU-9 Biological Indicators (Treatment Area)



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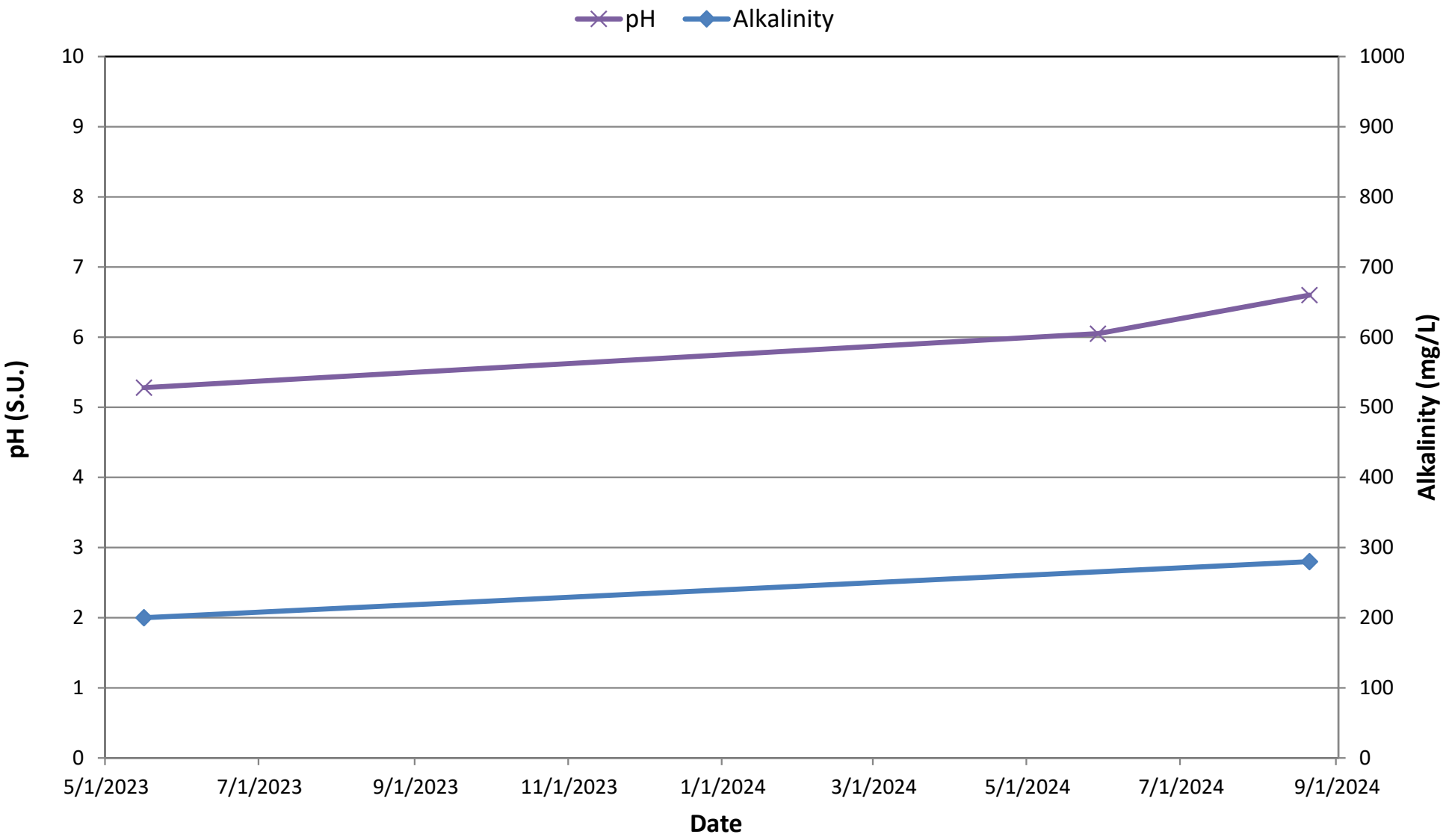
TREND CHART FOR BIOLOGICAL PARAMETERS - RU-9 (TREATMENT AREA)

PROJECT NO:	300-082	CHART:	77
DATE:	1/3/2025		

RU-10 Biological Indicators (Treatment Area)



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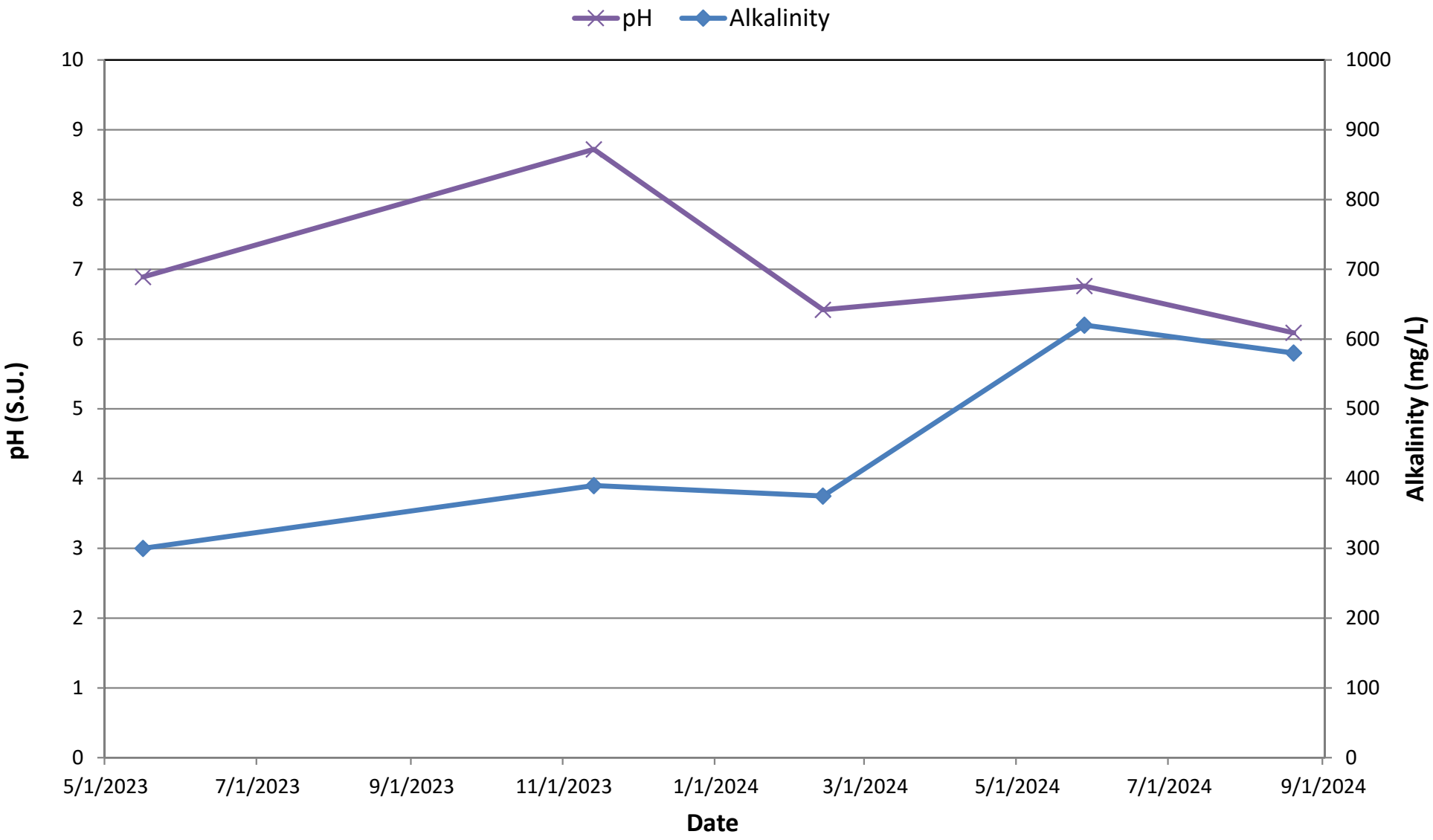
TREND CHART FOR BIOLOGICAL PARAMETERS - RU-10 (TREATMENT AREA)

PROJECT NO:	300-082	CHART:	78
DATE:	1/3/2025		

RU-19 Biological Indicators (Treatment Area)



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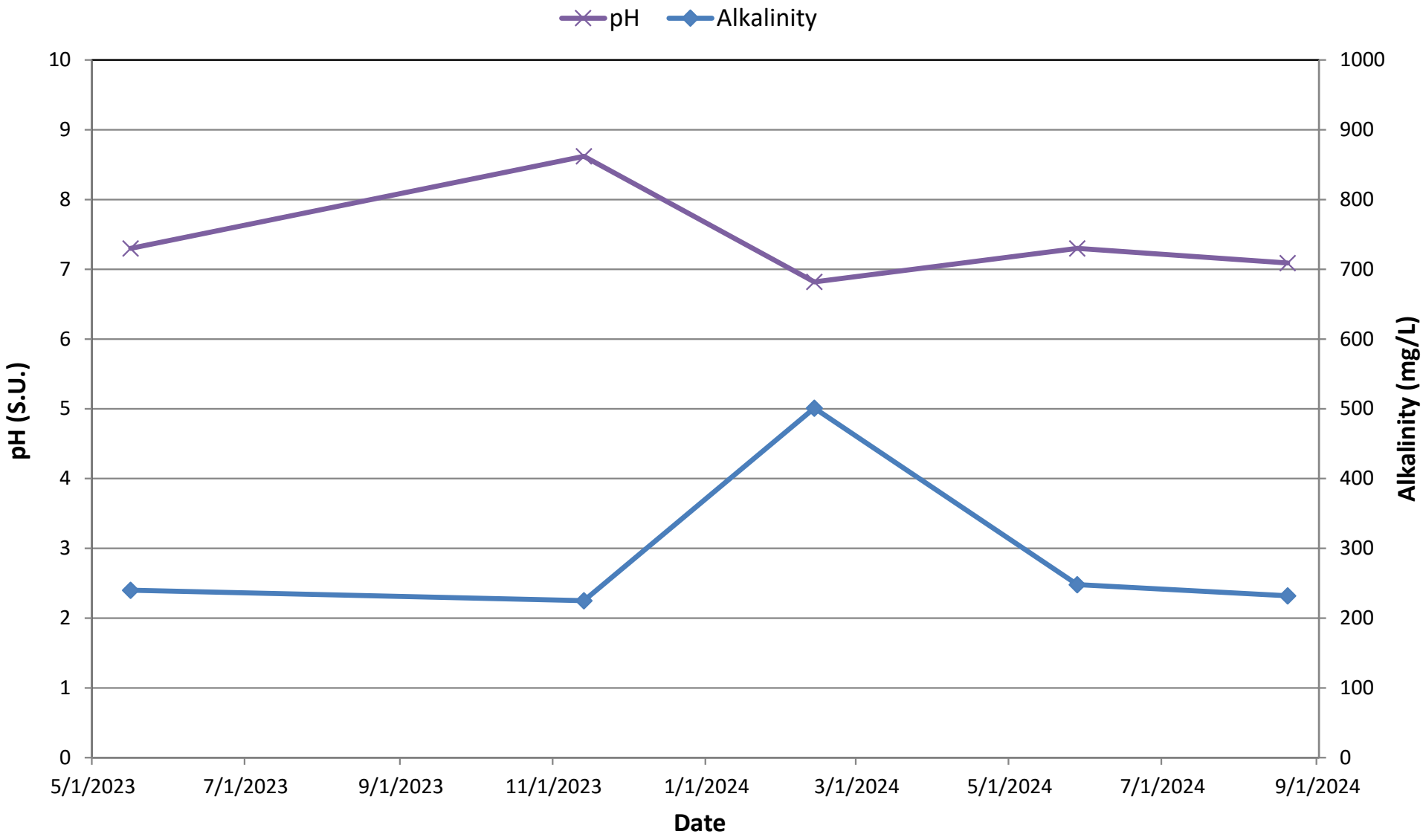
TREND CHART FOR BIOLOGICAL PARAMETERS - RU-19 (TREATMENT AREA)

PROJECT NO:	300-082	CHART:	79
DATE:	1/3/2025		

RU-20 Biological Indicators (Treatment Area)



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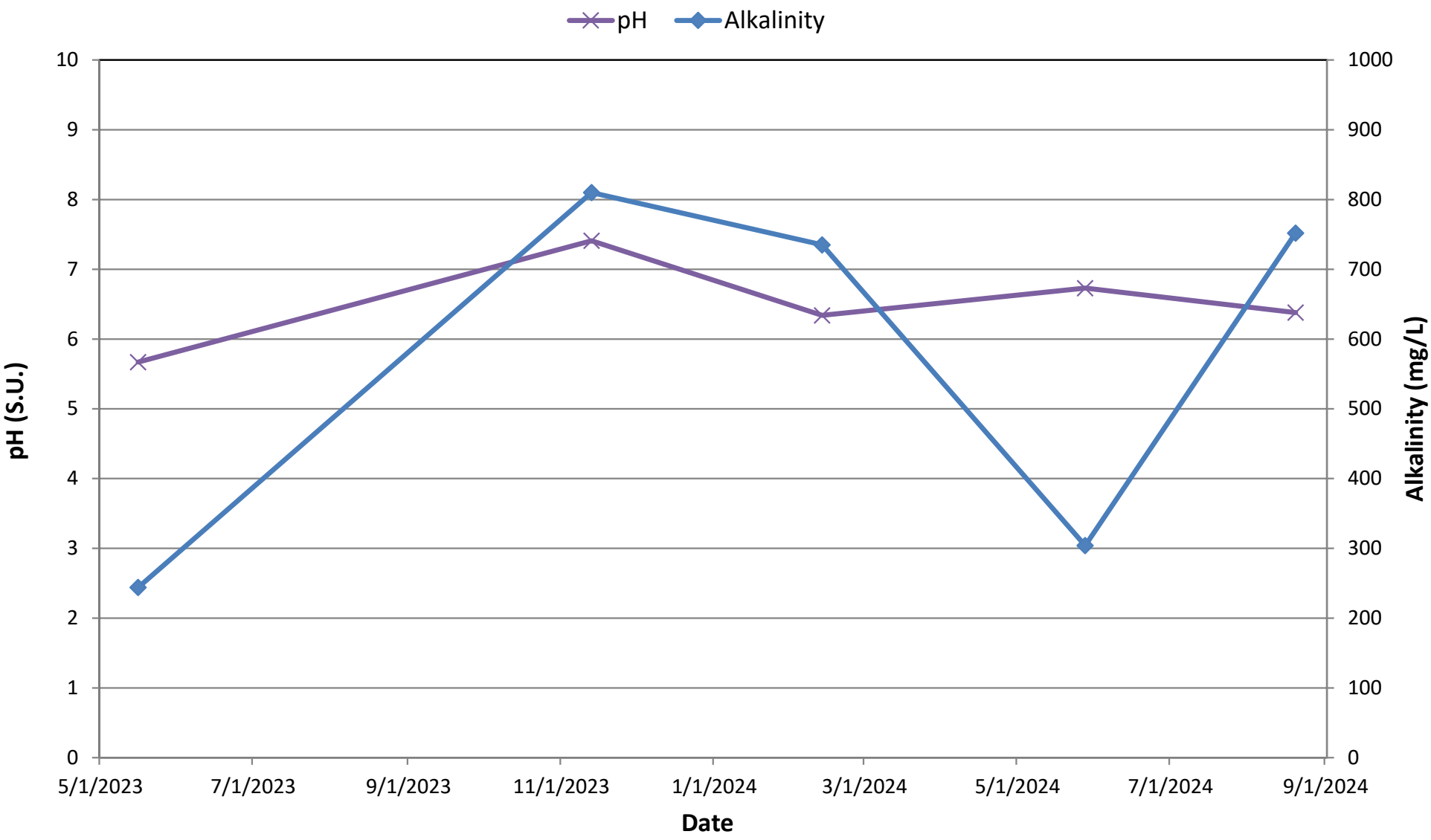
TREND CHART FOR BIOLOGICAL PARAMETERS - RU-20 (TREATMENT AREA)

PROJECT NO:	300-082	CHART:	80
DATE:	1/3/2025		

RU-21 Biological Indicators (Treatment Area)



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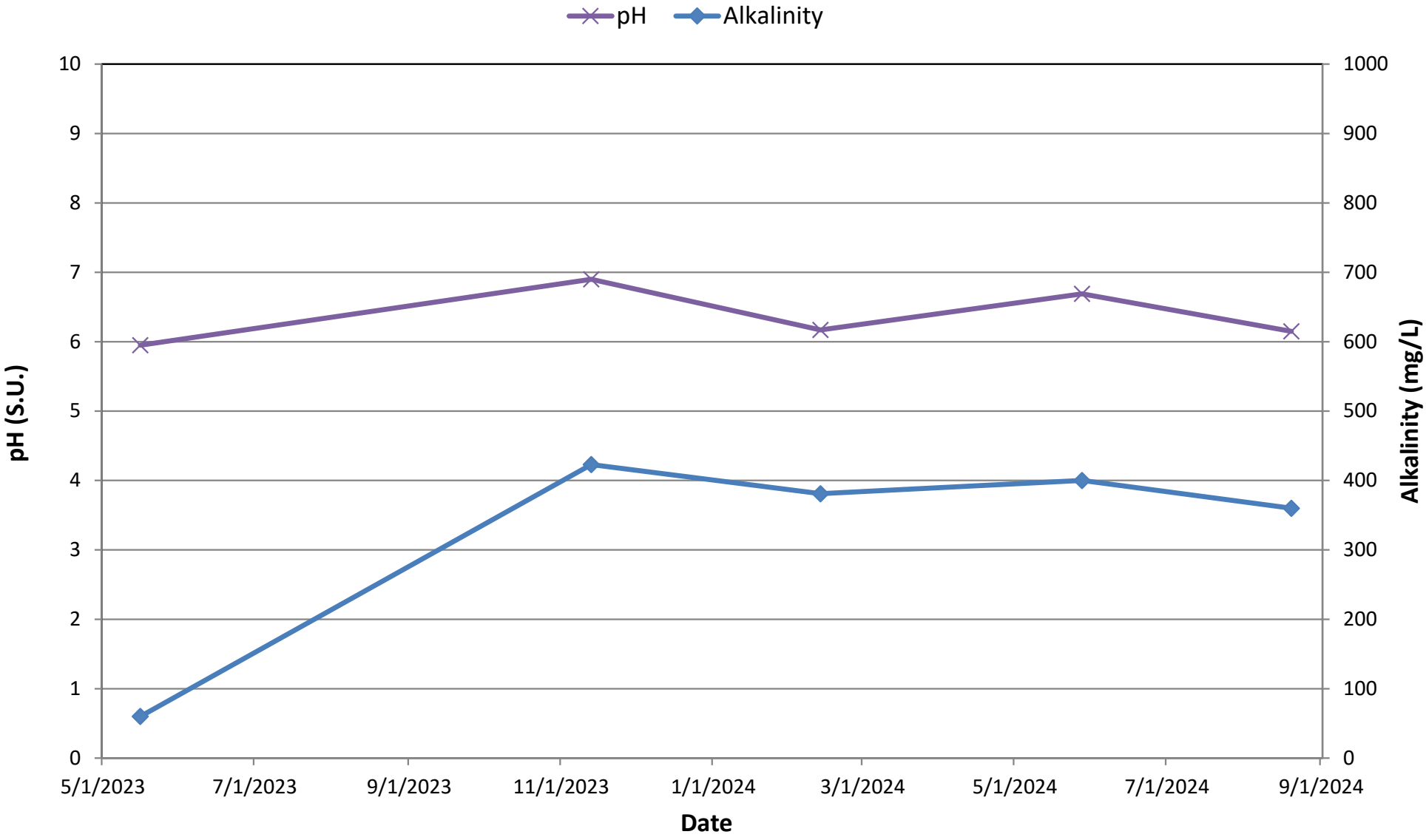
TREND CHART FOR BIOLOGICAL PARAMETERS - RU-21 (TREATMENT AREA)

PROJECT NO:	300-082	CHART:	81
DATE:	1/3/2025		

RU-27A Biological Indicators (Treatment Area)



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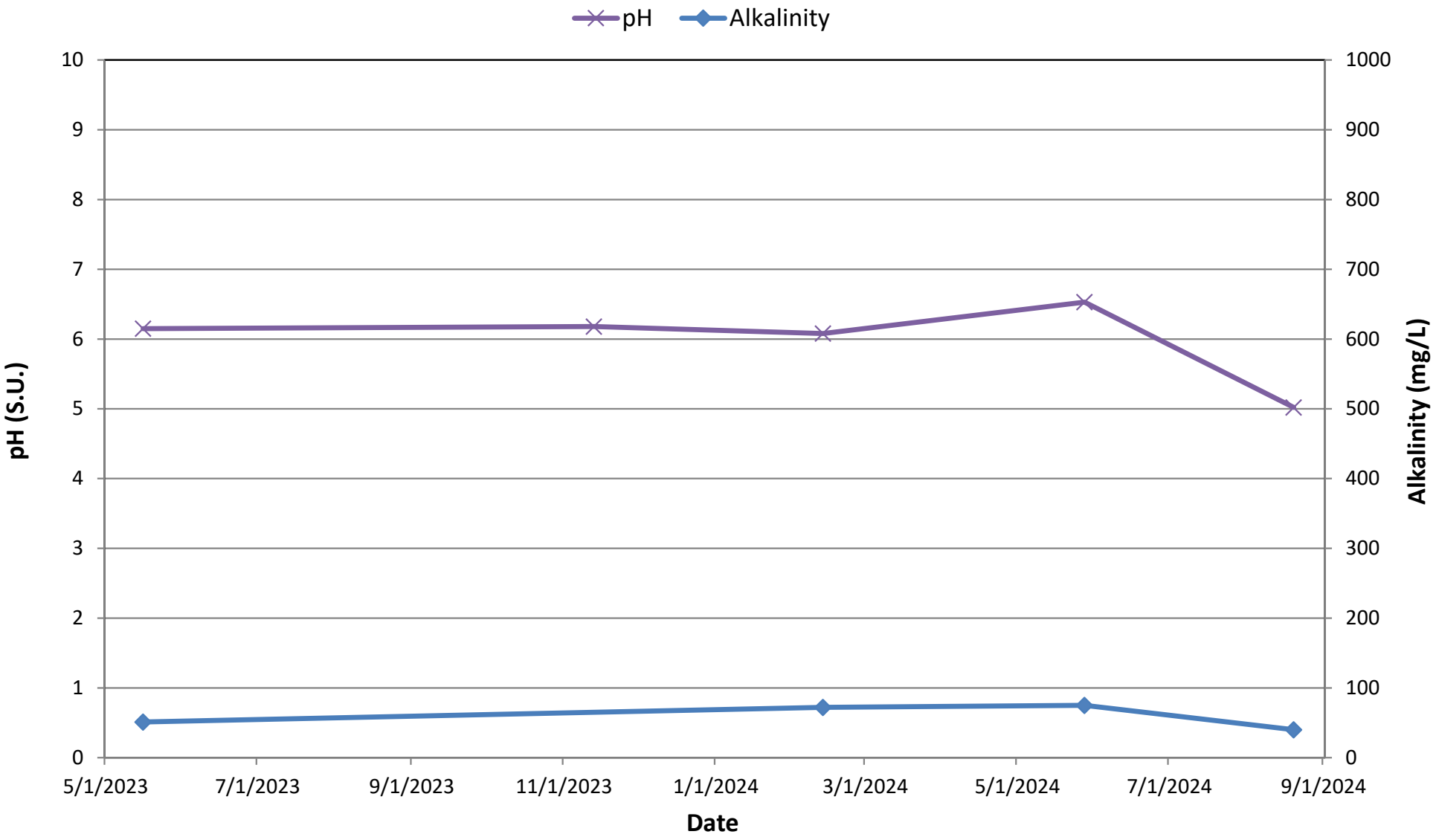
TREND CHART FOR BIOLOGICAL PARAMETERS - RU-27A (TREATMENT AREA)

PROJECT NO:	300-082	CHART:	82
DATE:	1/3/2025		

RU-28 Biological Indicators (Treatment Area)



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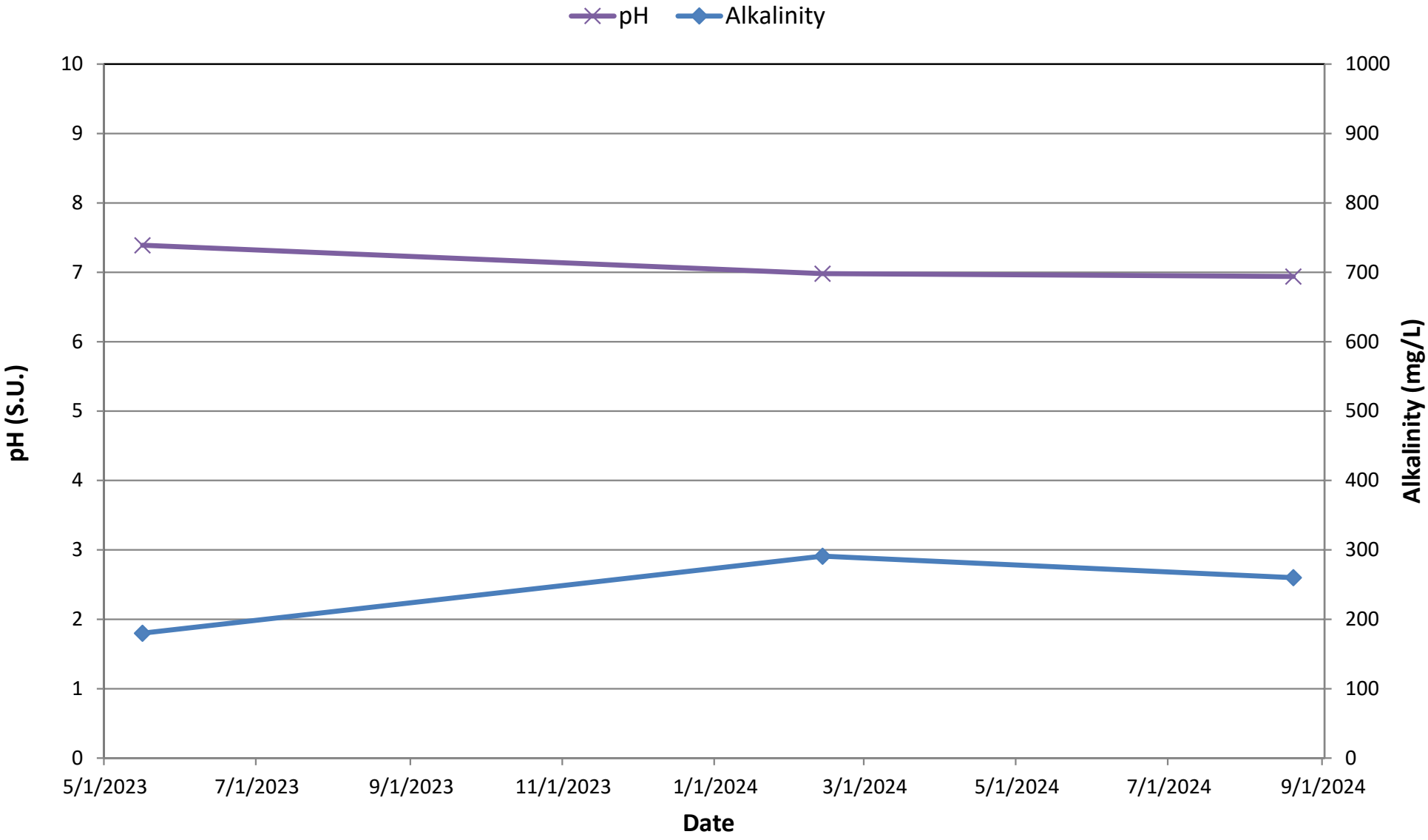
TREND CHART FOR BIOLOGICAL PARAMETERS - RU-28 (TREATMENT AREA)

PROJECT NO:	300-082	CHART:	83
DATE:	1/3/2025		

RU-11 Biological Indicators (Downgradient)



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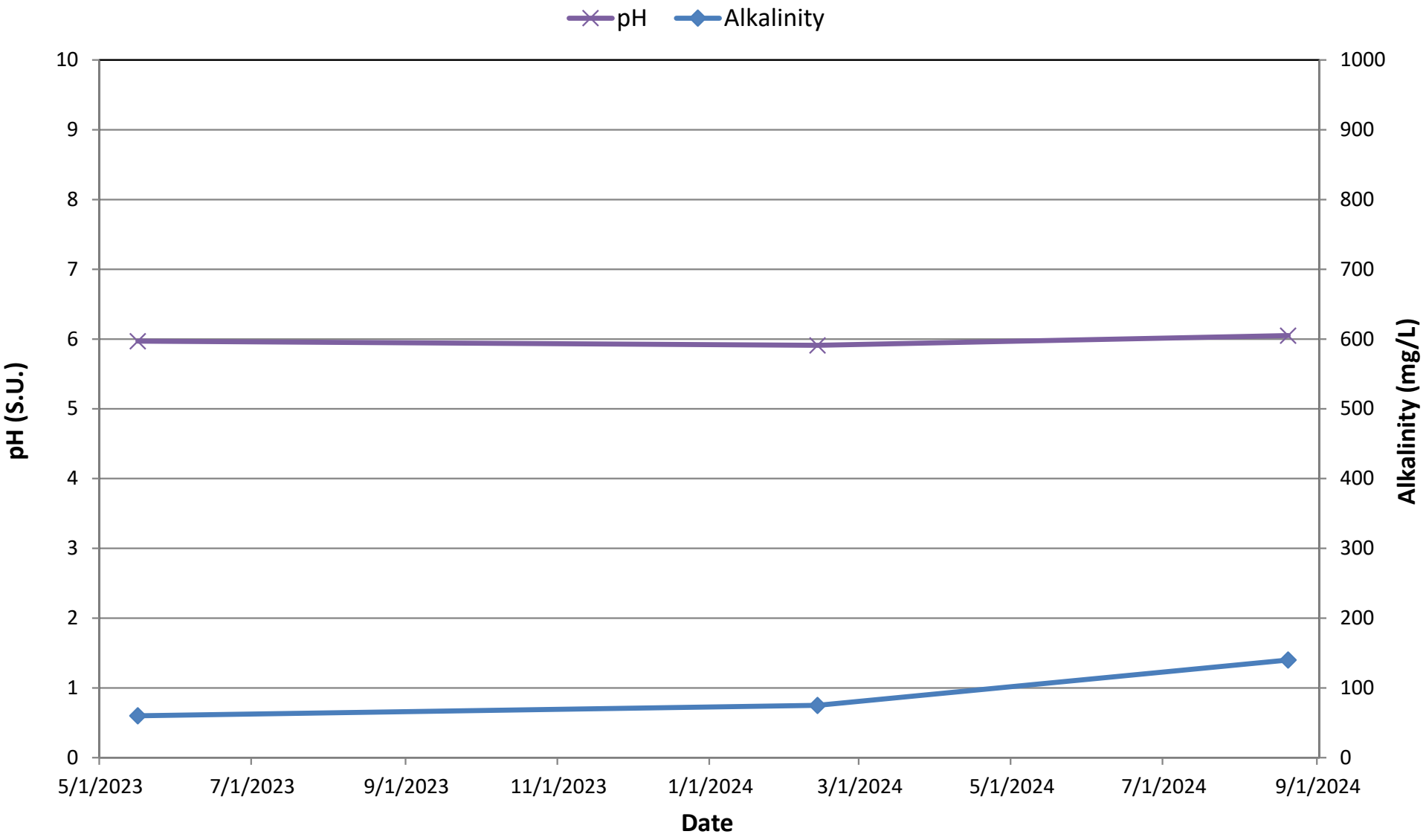
TREND CHART FOR BIOLOGICAL PARAMETERS - RU-11 (DOWNGRADIENT)

PROJECT NO:	300-082	CHART:	84
DATE:	1/3/2025		

RU-16 Biological Indicators (Downgradient)



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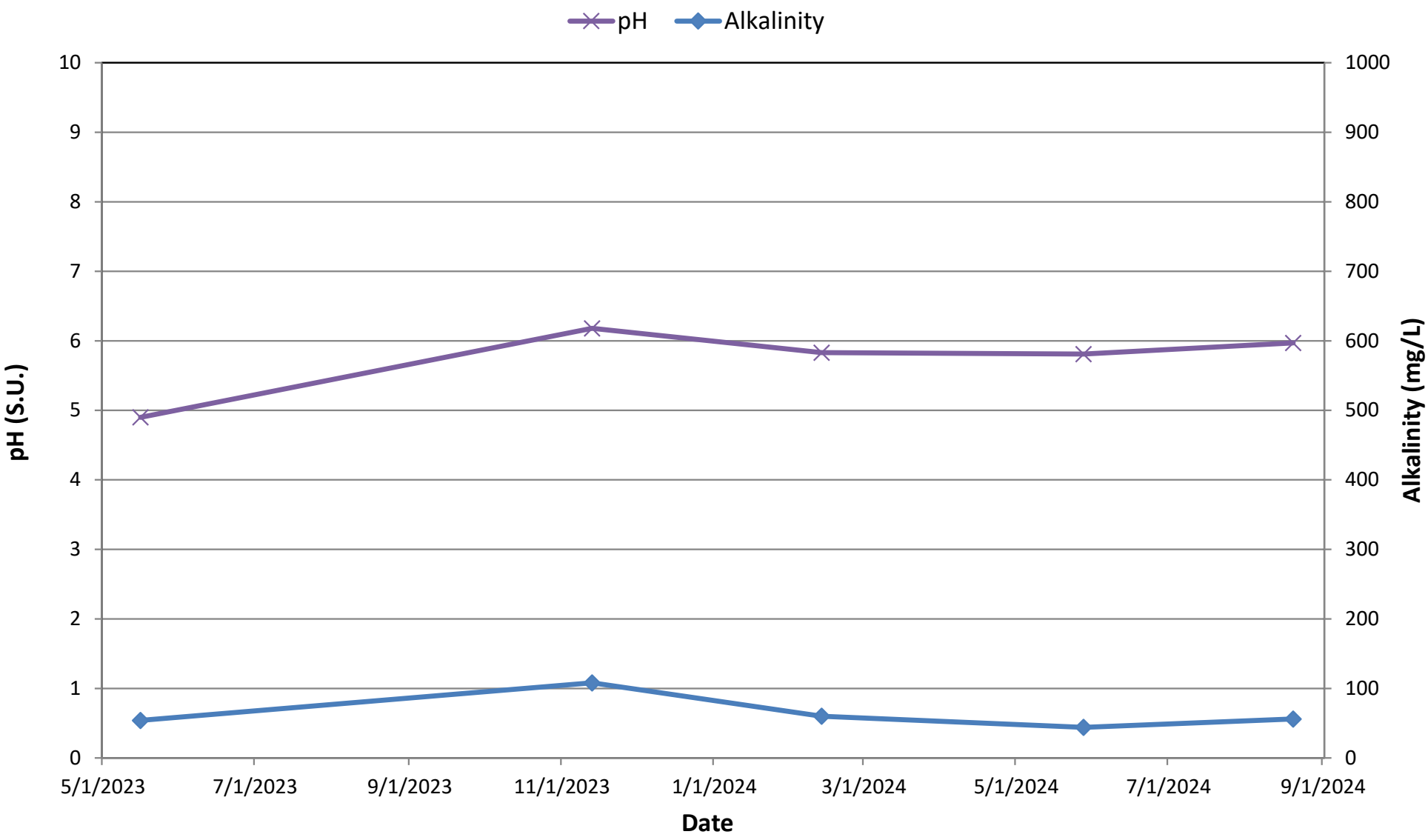
TREND CHART FOR BIOLOGICAL PARAMETERS - RU-16 (DOWNGRADIENT)

PROJECT NO:	300-082	CHART:	85
DATE:	1/3/2025		

UA-2 Biological Indicators (Downgradient)



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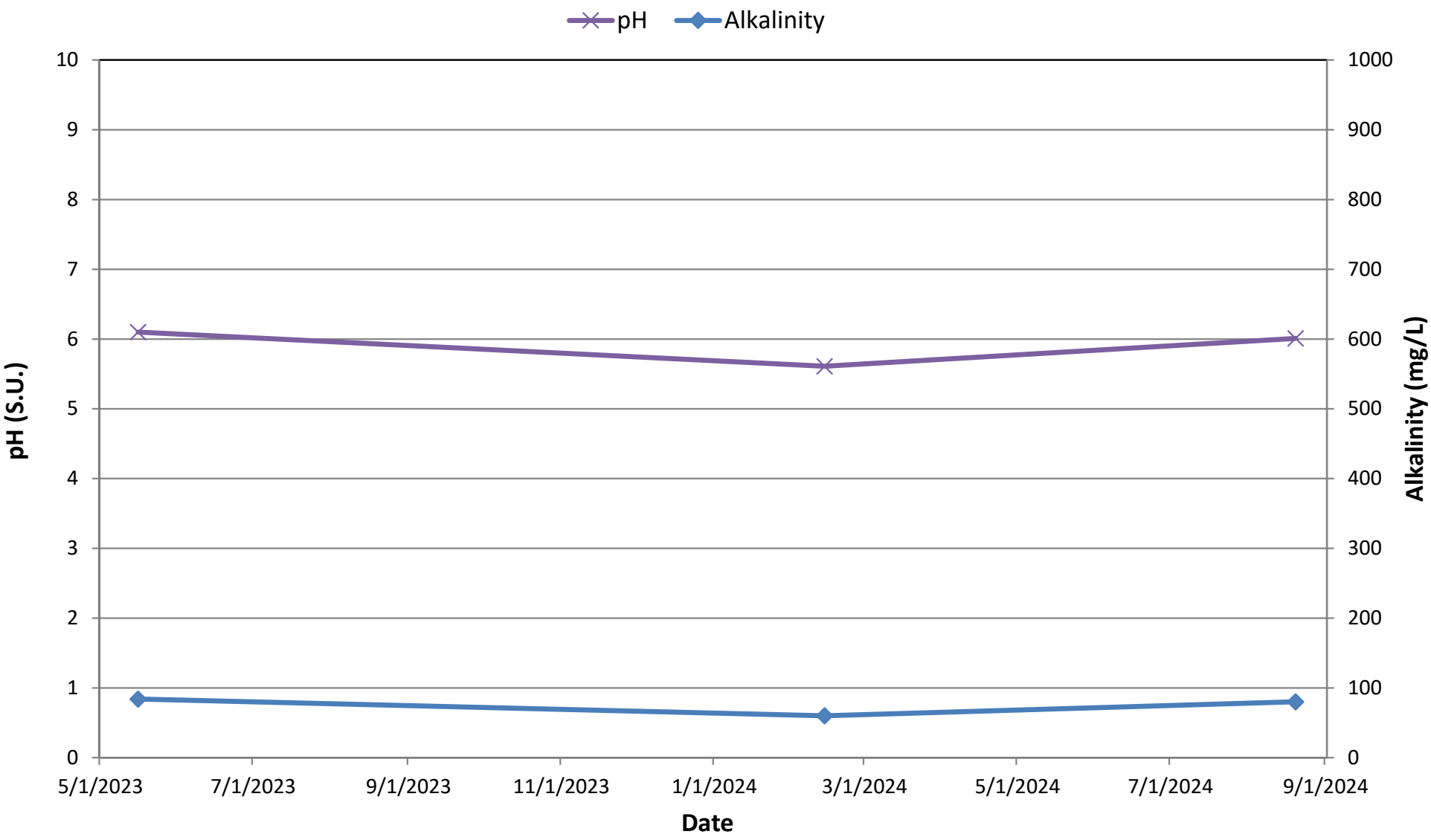
TREND CHART FOR BIOLOGICAL PARAMETERS - UA-2 (DOWNGRADIENT)

PROJECT NO:	300-082	CHART:	86
DATE:	1/3/2025		

UA-3 Biological Indicators (Downgradient)



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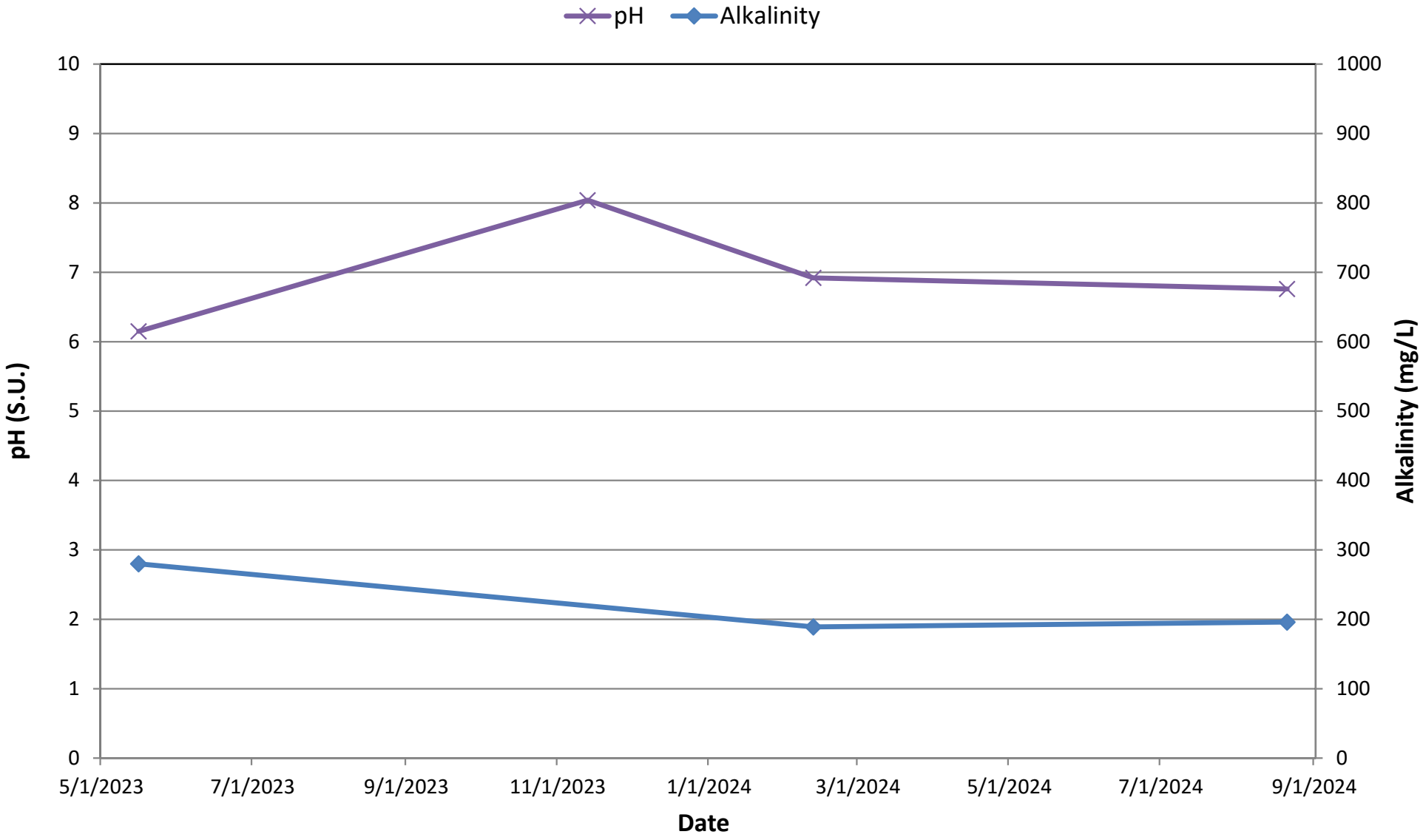
TREND CHART FOR BIOLOGICAL PARAMETERS - UA-3 (DOWNGRADIENT)

PROJECT NO:	300-082	CHART:	87
DATE:	1/3/2025		

CW-13 Biological Indicators (Sentinel)



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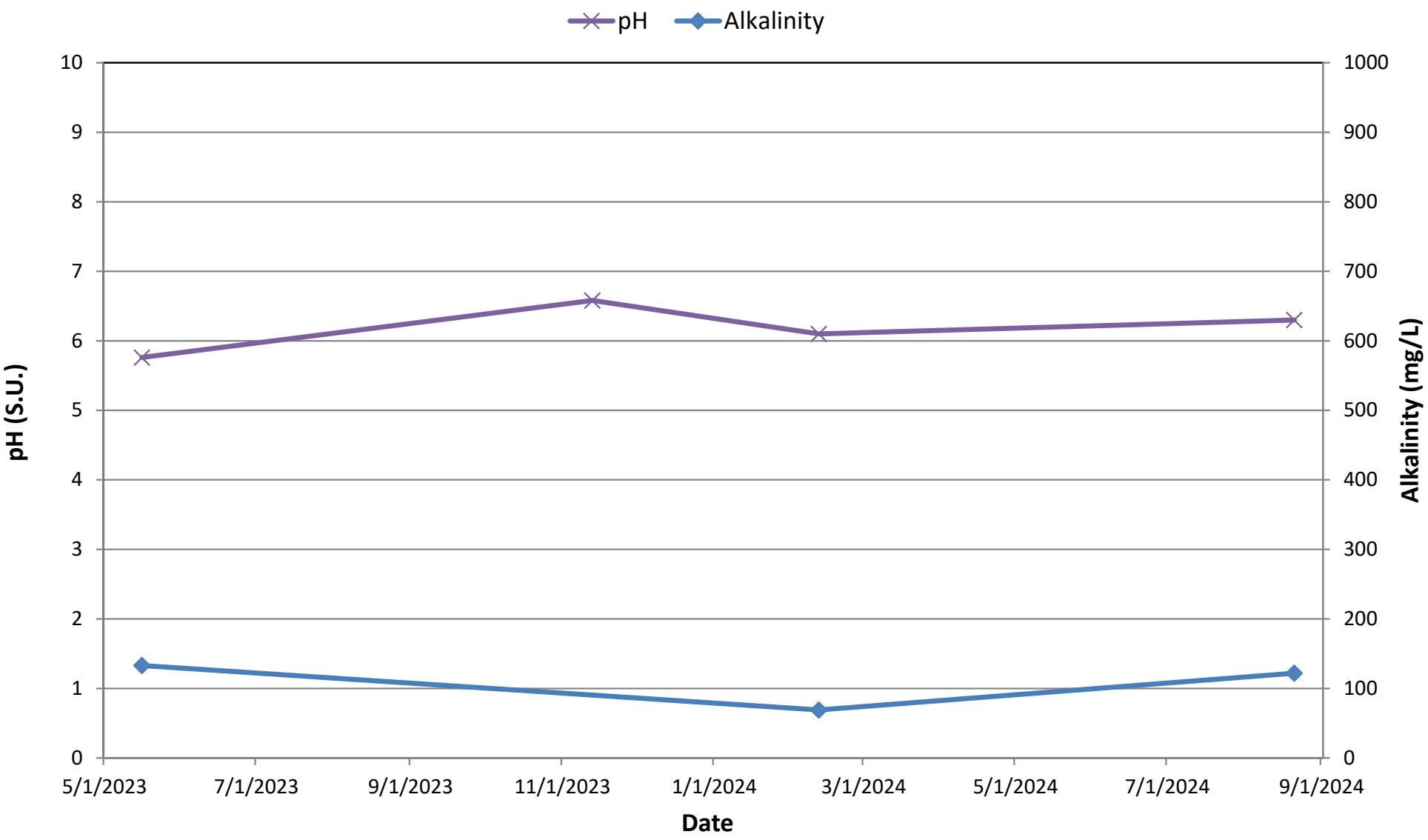
TREND CHART FOR BIOLOGICAL PARAMETERS - CW-13 (SENTINEL)

PROJECT NO:	300-082	CHART:	88
DATE:	1/3/2025		

CW-13A Biological Indicators (Sentinel)



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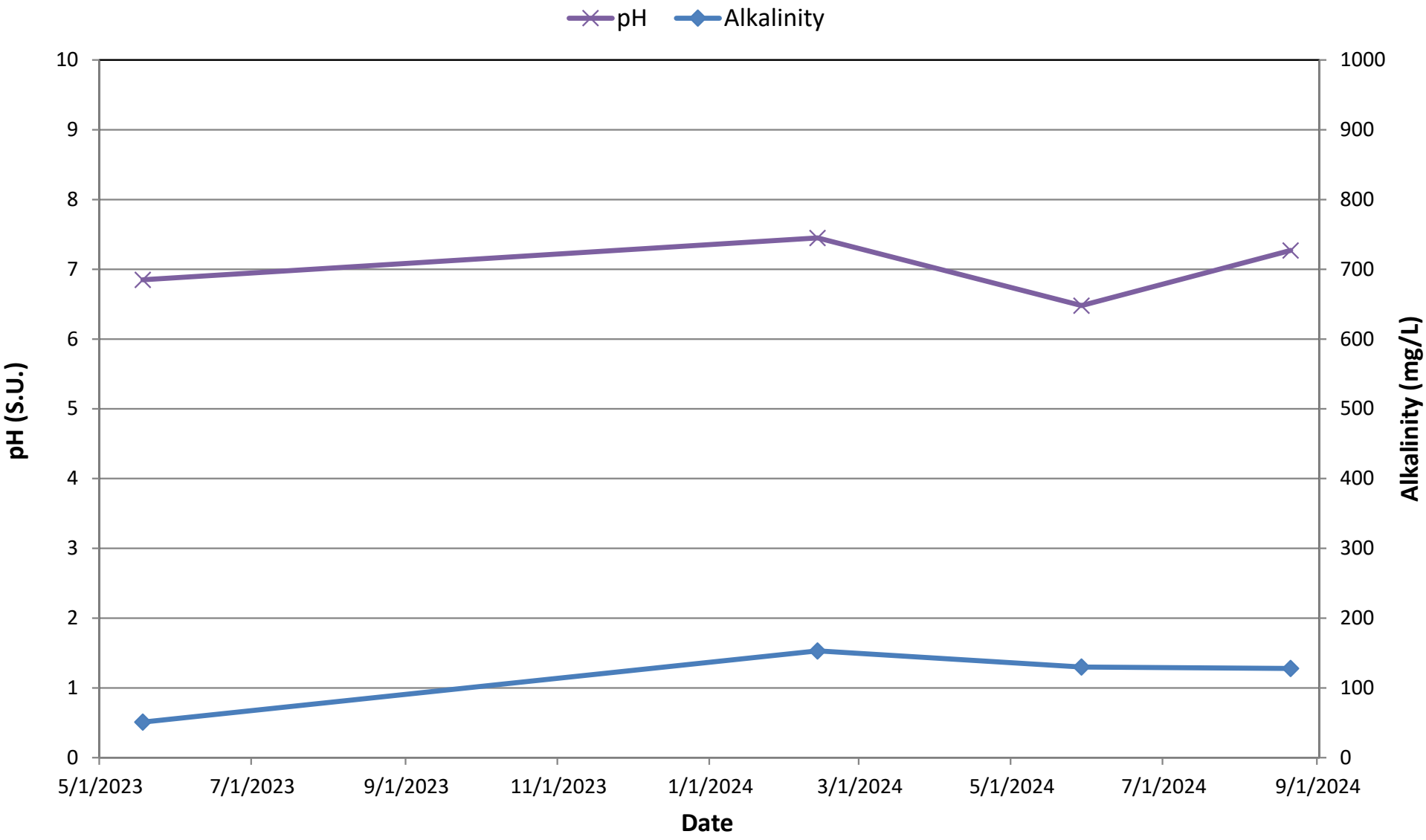
TREND CHART FOR BIOLOGICAL PARAMETERS - CW-13A (SENTINEL)

PROJECT NO:	300-082	CHART:	89
DATE:	1/3/2025		

WW-18M Biological Indicators (Sentinel)



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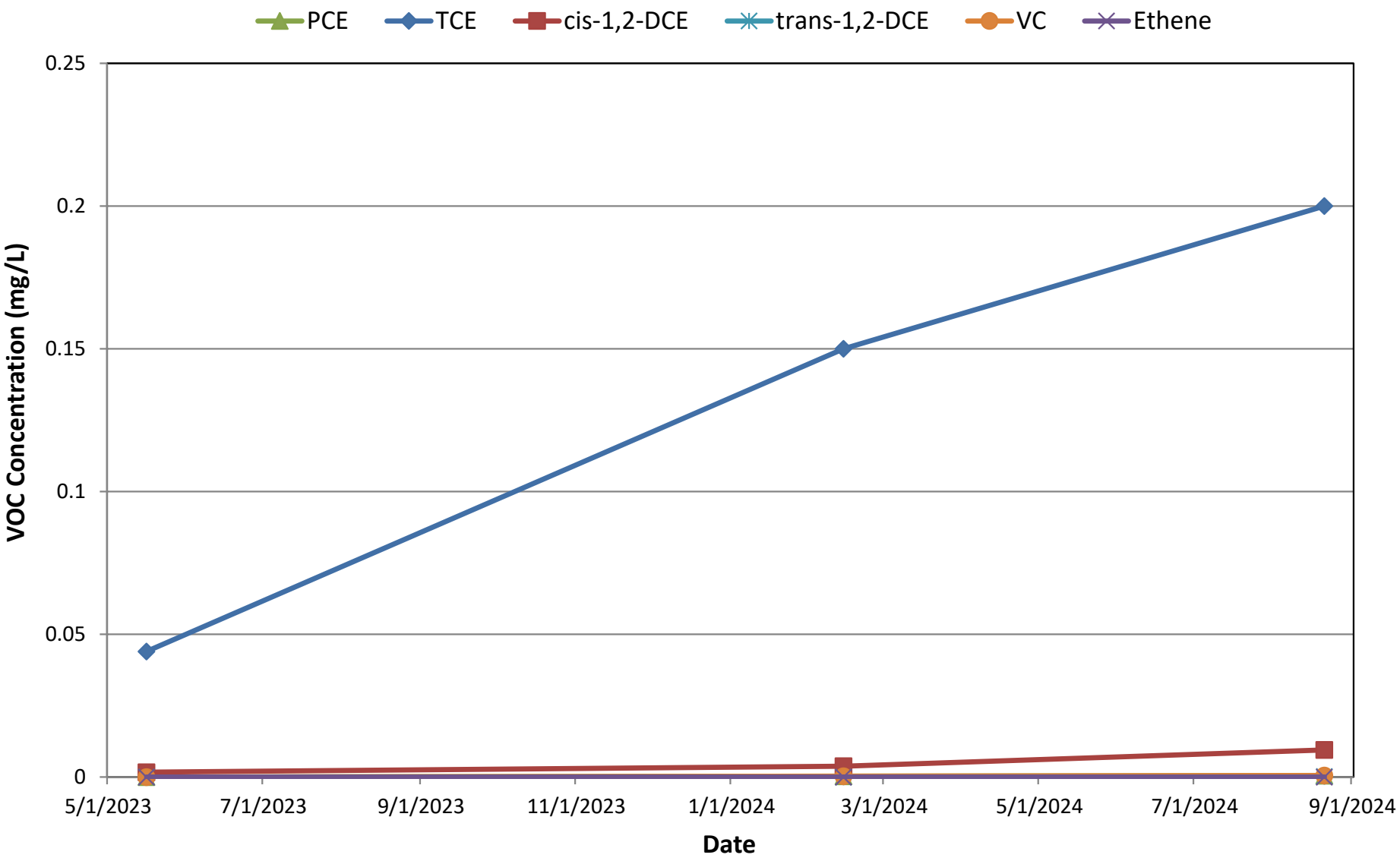
TREND CHART FOR BIOLOGICAL PARAMETERS - WW-18M (SENTINEL)

PROJECT NO:	300-082	CHART:	90
DATE:	1/3/2025		

RU-8 VOC Mass Concentrations (Upgradient)



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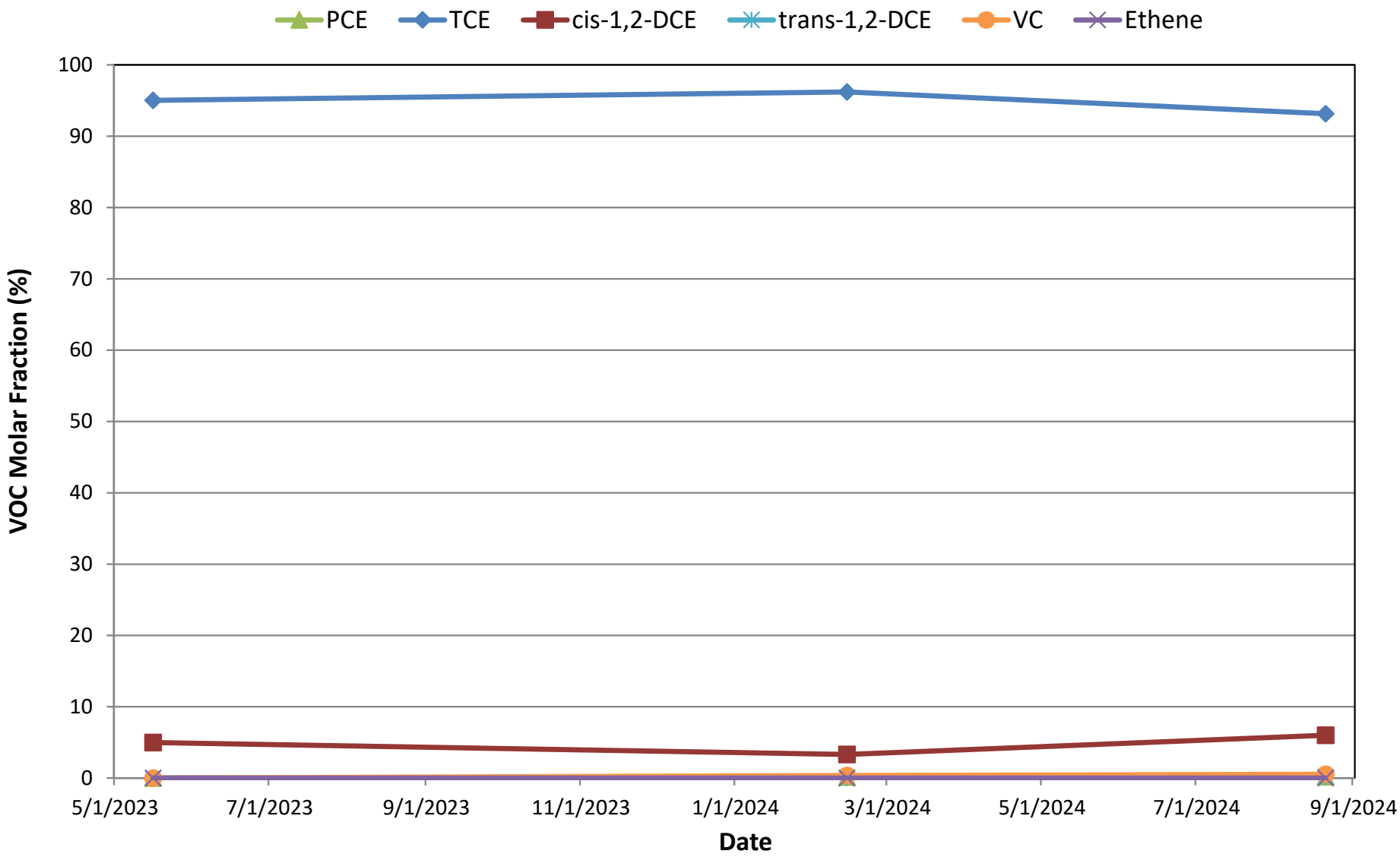
TREND CHART FOR VOCS BY MASS CONCENTRATION - RU-8 (UPGRADIENT)

PROJECT NO:	300-082
DATE:	1/3/2025
CHART:	91

RU-8 VOC Molar Fractions (Upgradient)



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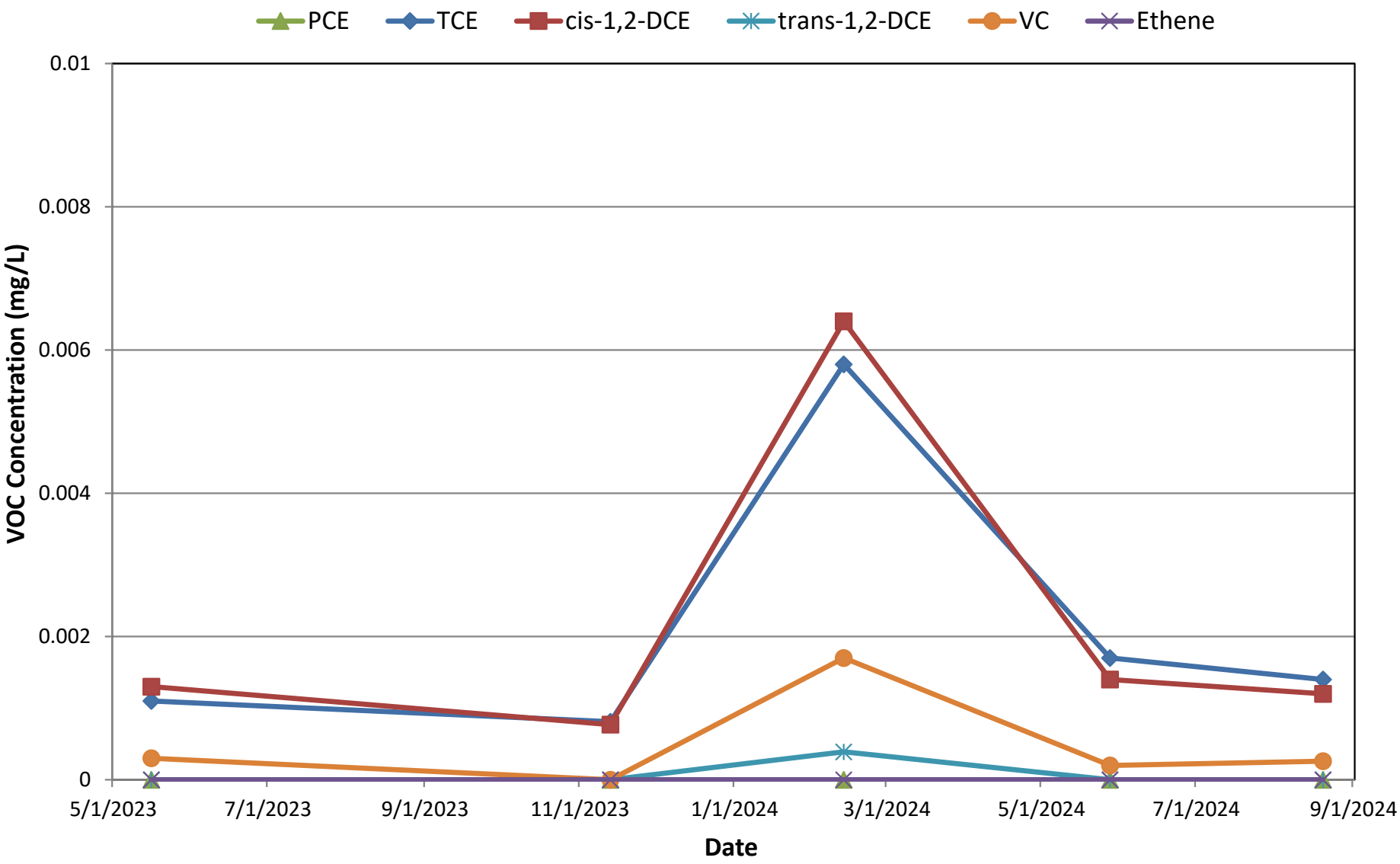
TREND CHART FOR VOCS BY MOLAR FRACTION - RU-8 (UPGRADIENT)

PROJECT NO:	300-082
DATE:	1/3/2025
CHART:	92

RU-15 VOC Mass Concentrations (Upgradient)



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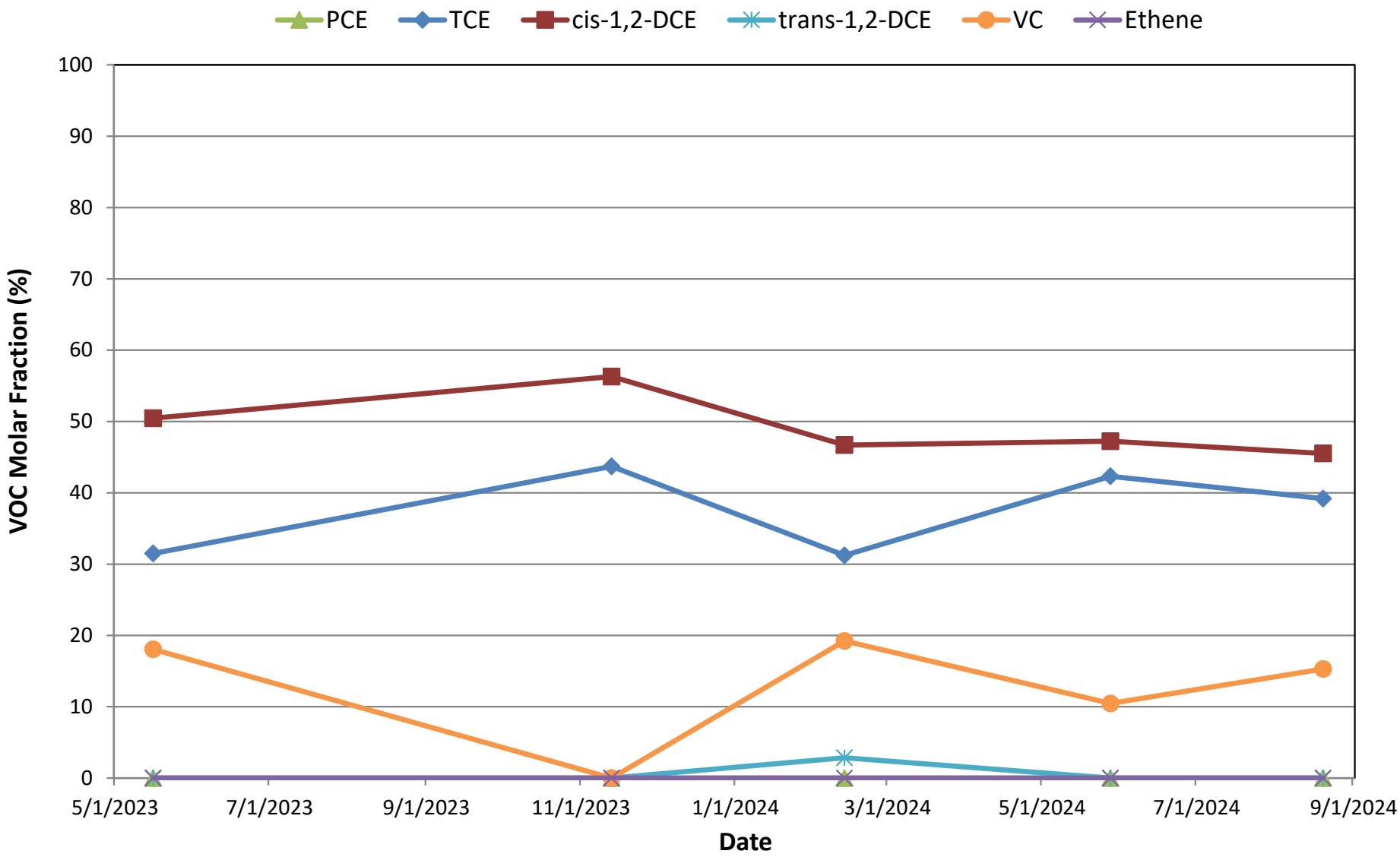
TREND CHART FOR VOCS BY MASS CONCENTRATION - RU-15 (UPGRADIENT)

PROJECT NO:	300-082
DATE:	1/3/2025
CHART:	93

RU-15 VOC Molar Fractions (Upgradient)



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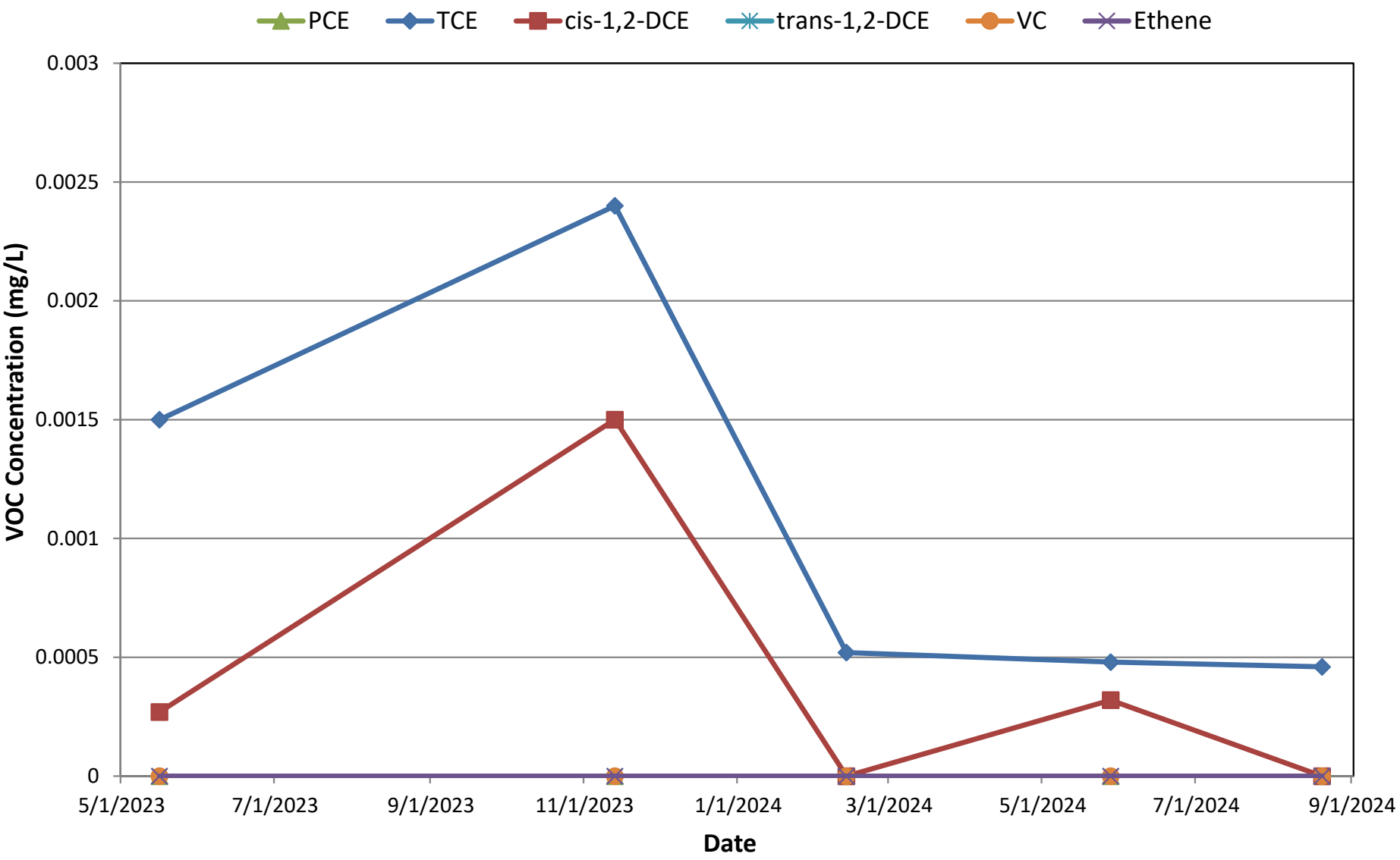
TREND CHART FOR VOCS BY MOLAR FRACTION - RU-15 (UPGRADIENT)

PROJECT NO:	300-082
DATE:	1/3/2025
CHART:	94

RU-9 VOC Mass Concentrations (Treatment Area)



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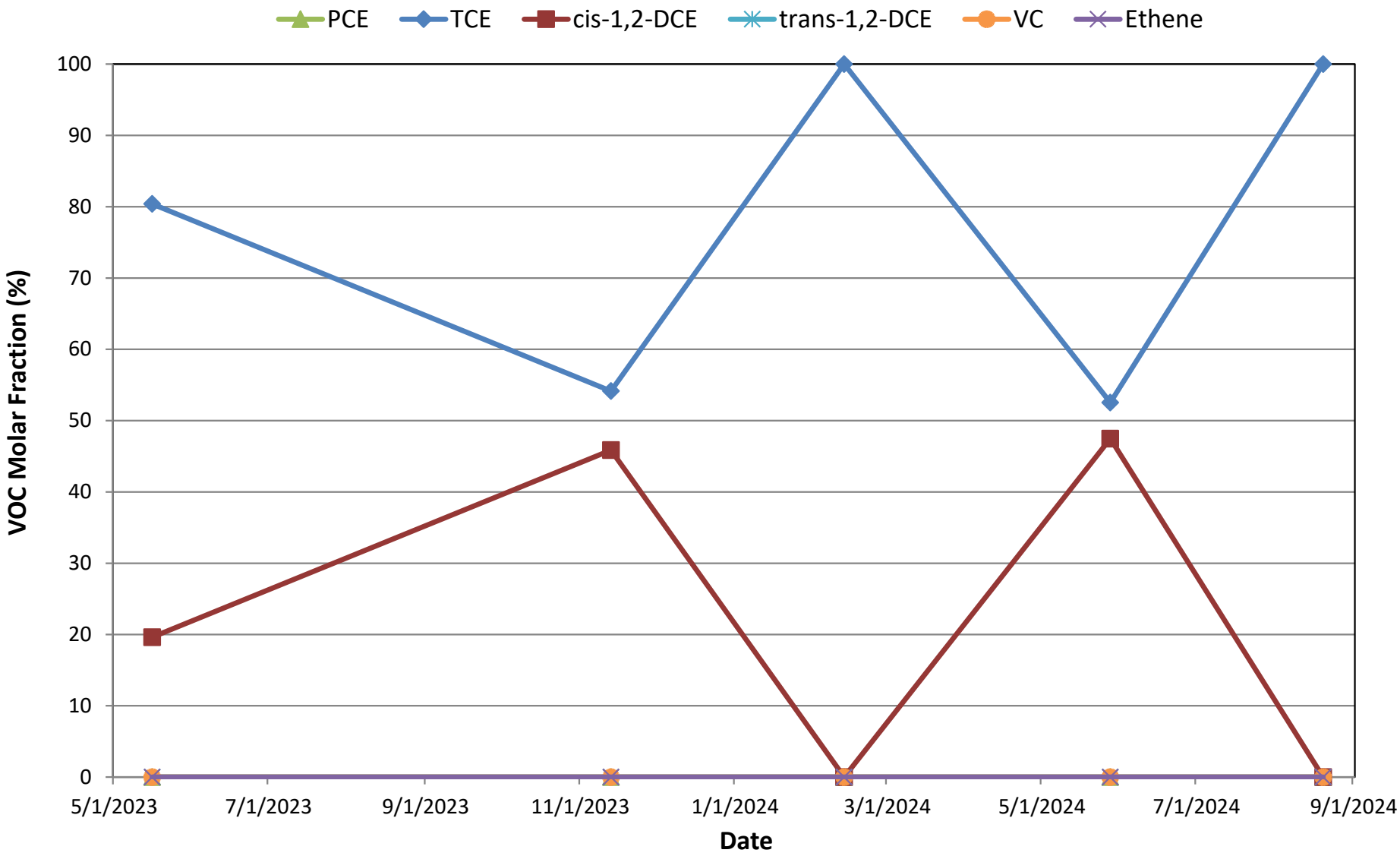
TREND CHART FOR VOCS BY MASS CONCENTRATION - RU-9 (TREATMENT AREA)

PROJECT NO:	300-082
DATE:	1/3/2025
CHART:	95

RU-9 VOC Molar Fractions (Treatment Area)



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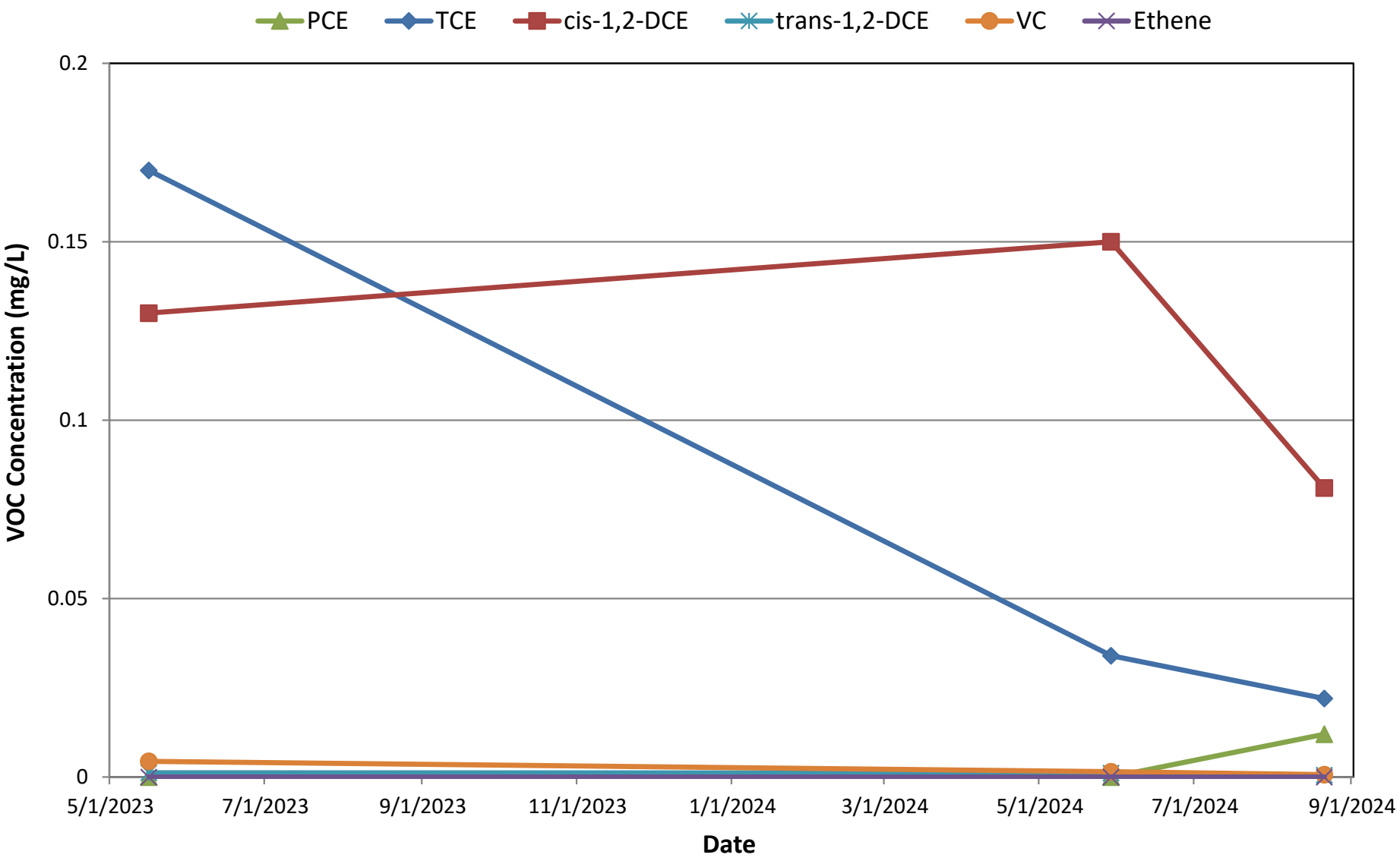
TREND CHART FOR VOCS BY MOLAR FRACTION - RU-9 (TREATMENT AREA)

PROJECT NO:	300-082
DATE:	1/3/2025
CHART:	96

RU-10 VOC Mass Concentrations (Treatment Area)



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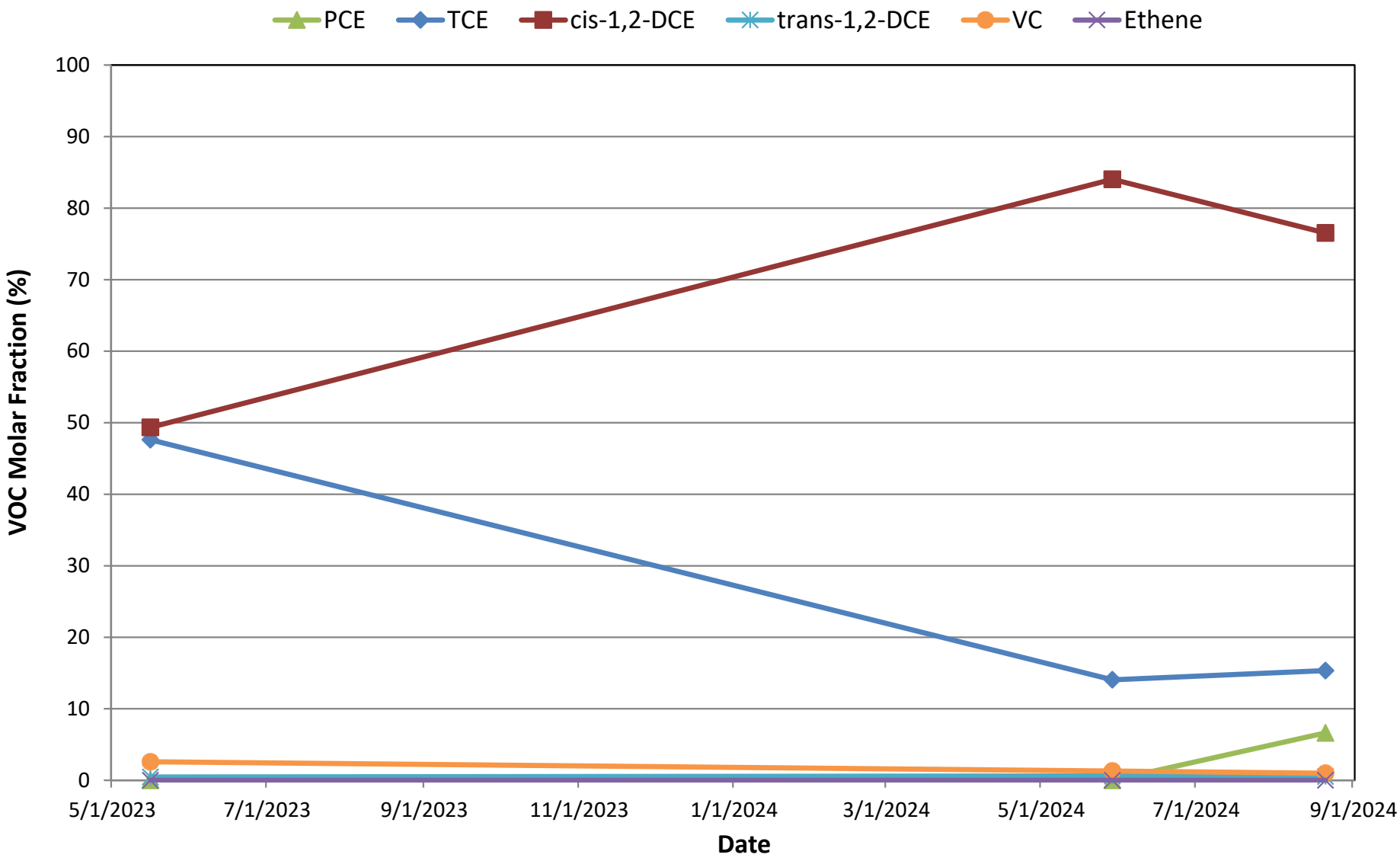
TREND CHART FOR VOCS BY MASS CONCENTRATION - RU-10 (TREATMENT AREA)

PROJECT NO:	300-082
DATE:	1/3/2025
CHART:	97

RU-10 VOC Molar Fractions (Treatment Area)



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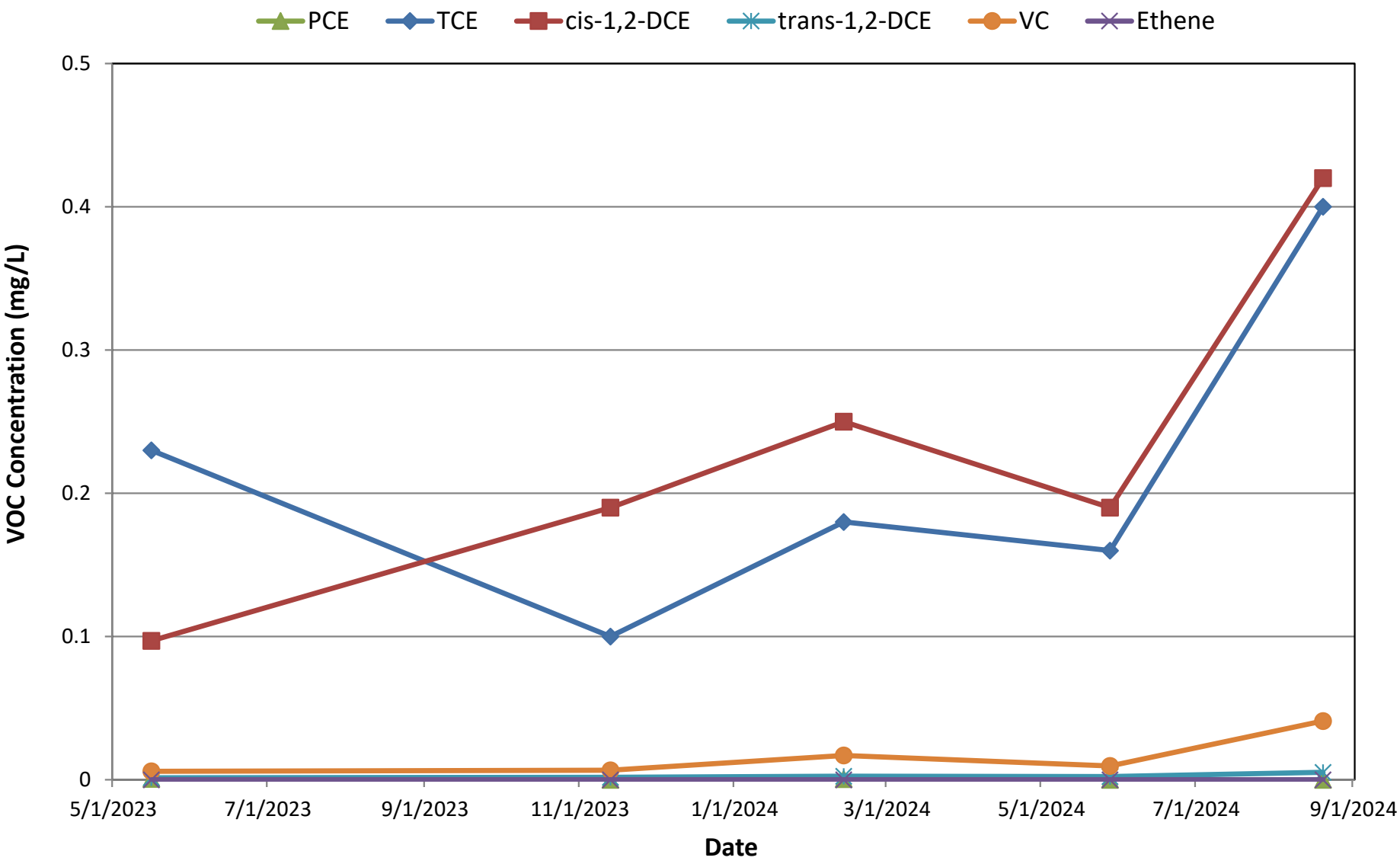
PROJECT NO:	300-082
DATE:	1/3/2025
CHART:	98

RU-19 VOC Mass Concentrations (Treatment Area)



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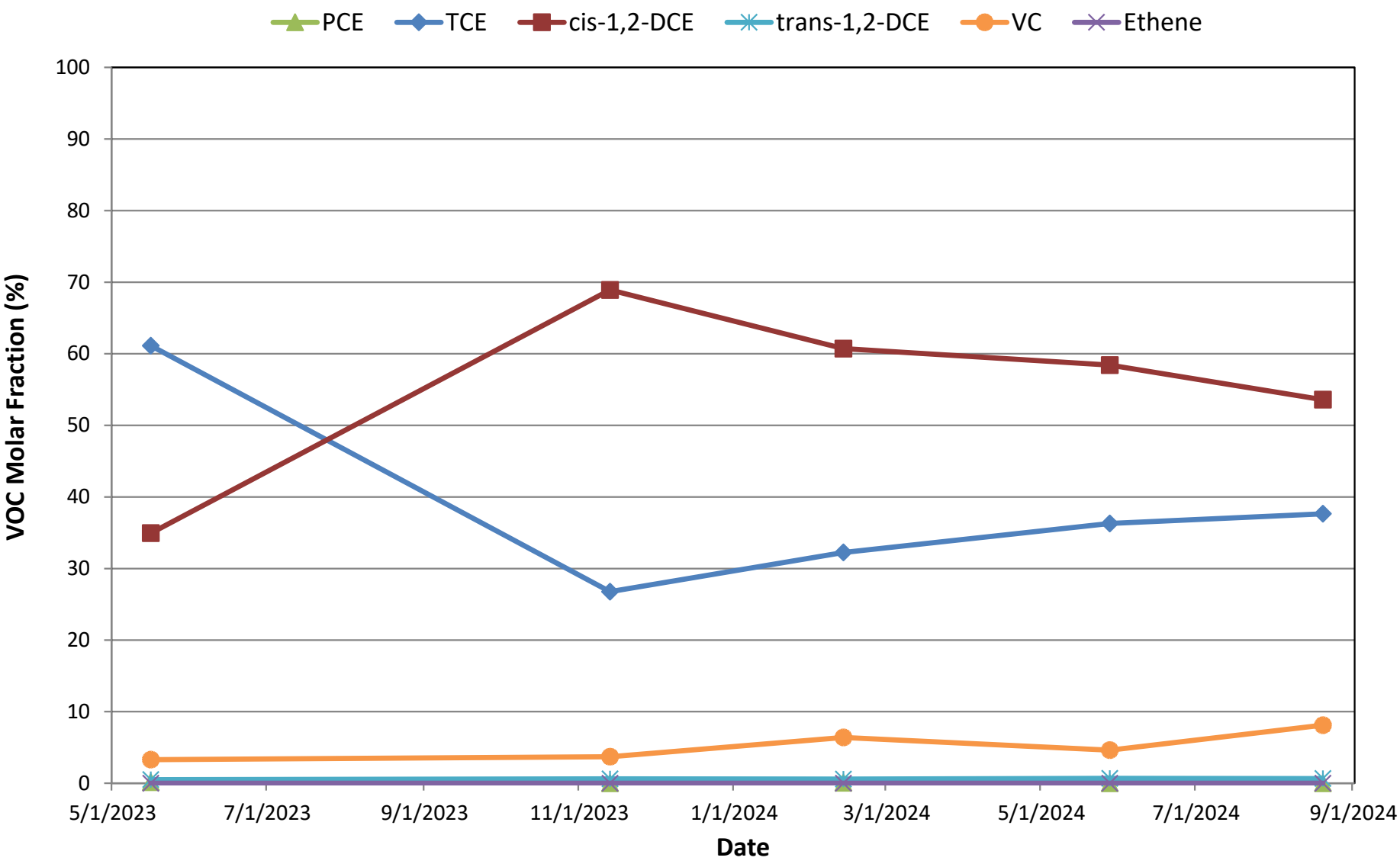
TREND CHART FOR VOCS BY MASS CONCENTRATION - RU-19 (TREATMENT AREA)

PROJECT NO:	300-082
DATE:	1/3/2025
CHART:	99

RU-19 VOC Molar Fractions (Treatment Area)



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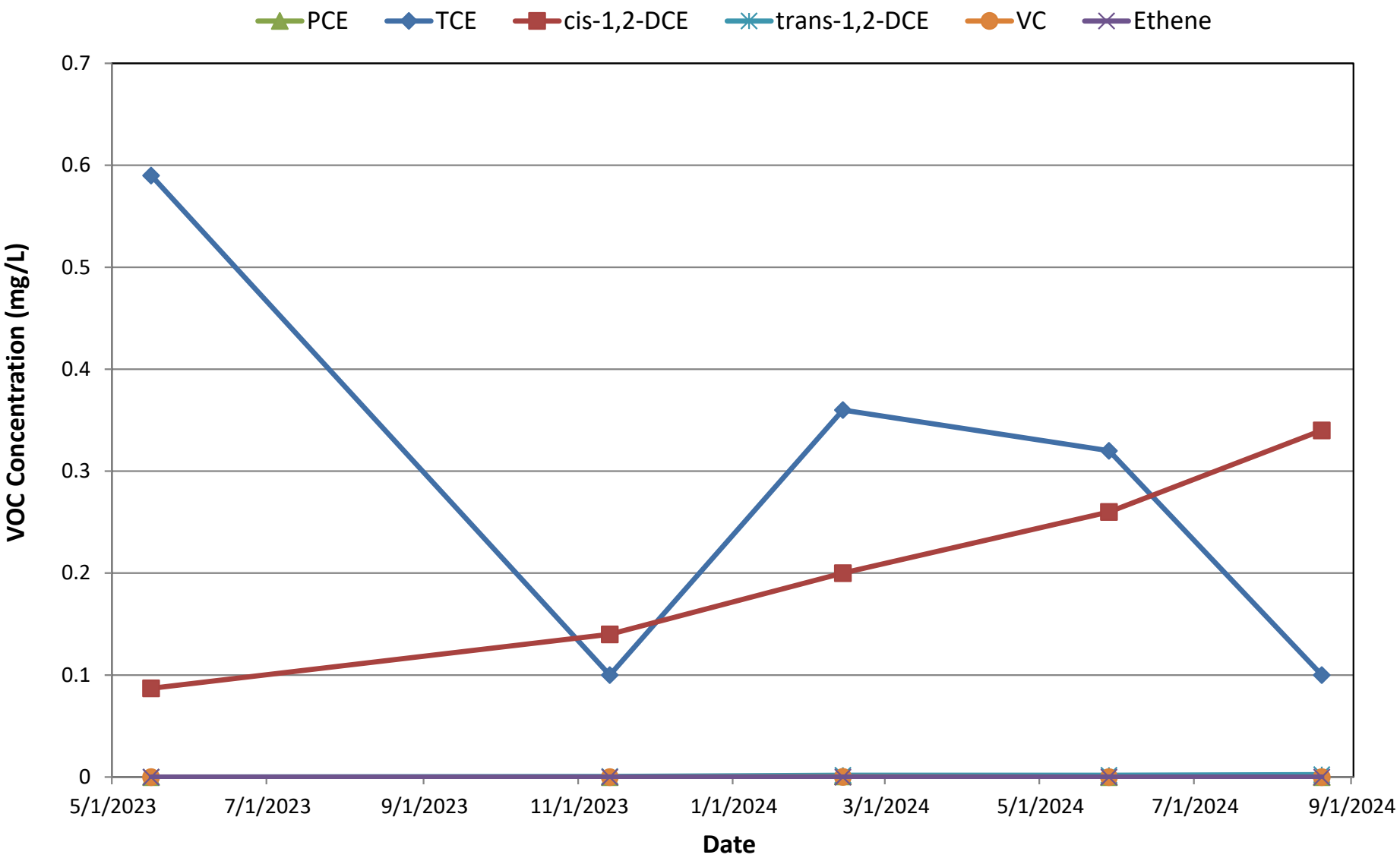
TREND CHART FOR VOCS BY MOLAR FRACTION - RU-19 (TREATMENT AREA)

PROJECT NO:	300-082
DATE:	1/3/2025
CHART:	100

RU-20 VOC Mass Concentrations (Treatment Area)



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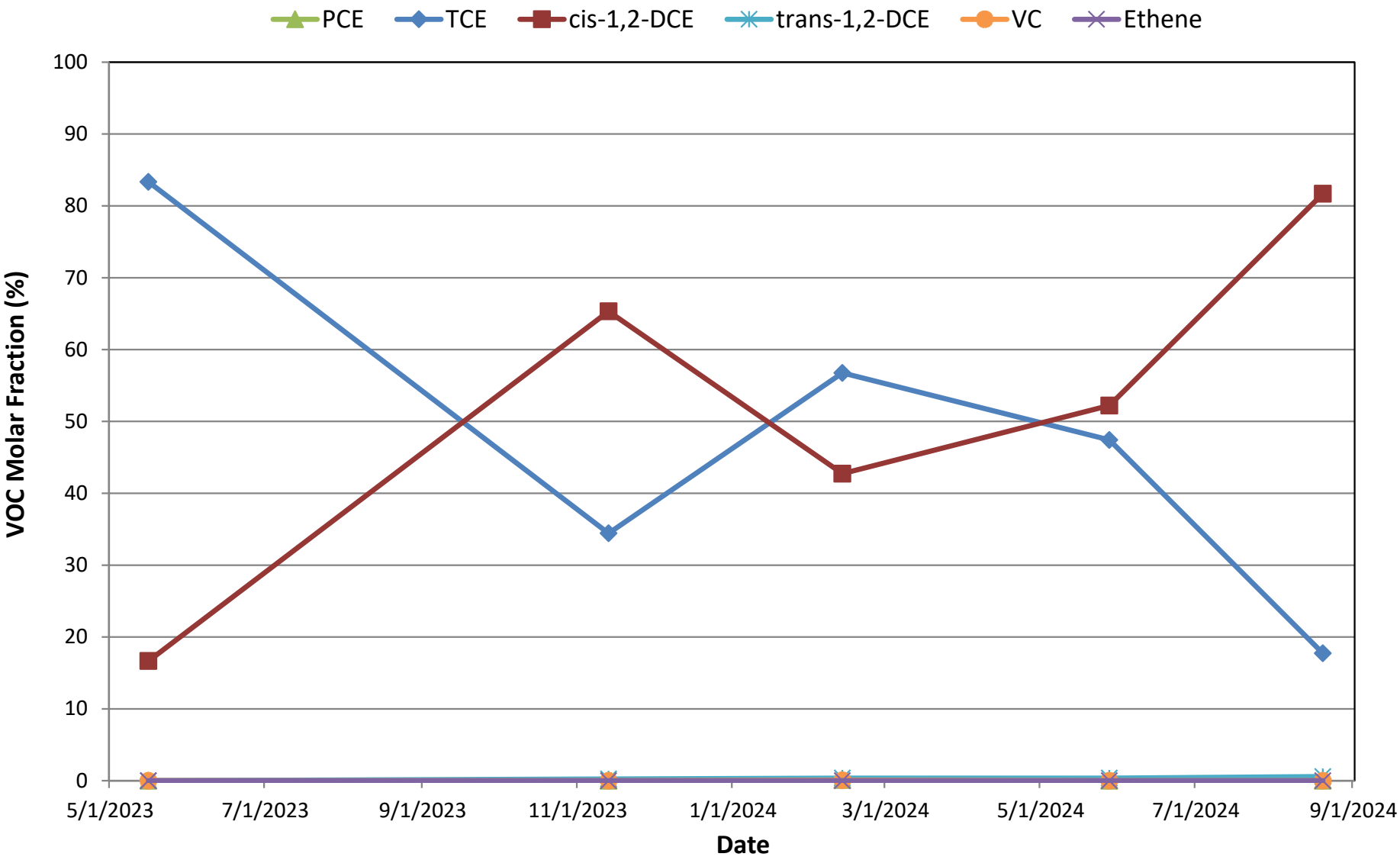
TREND CHART FOR VOCS BY MASS CONCENTRATION - RU-20 (TREATMENT AREA)

PROJECT NO:	300-082
DATE:	1/3/2025
CHART:	101

RU-20 VOC Molar Fractions (Treatment Area)



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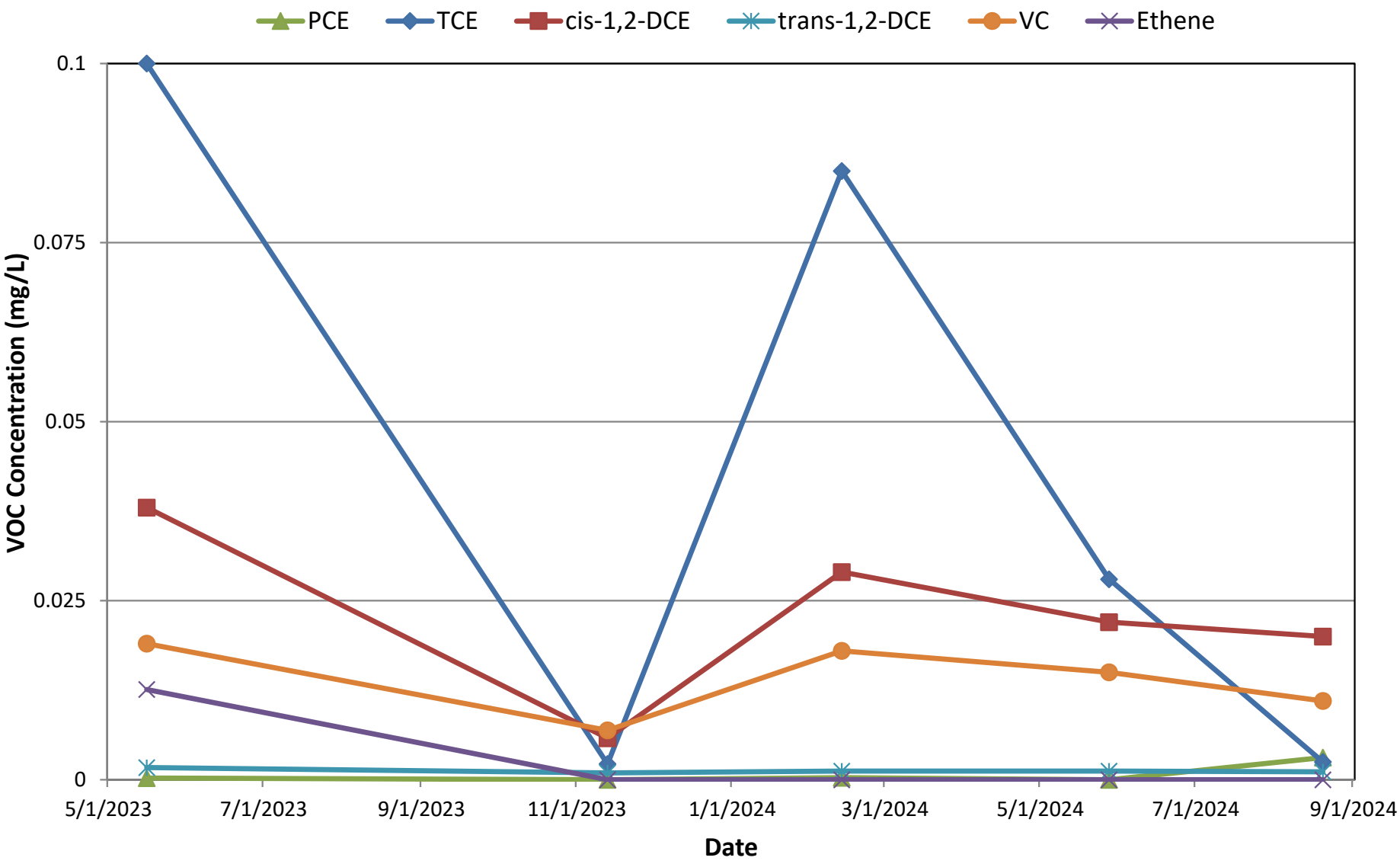
TREND CHART FOR VOCS BY MOLAR FRACTION - RU-20 (TREATMENT AREA)

PROJECT NO:	300-082
DATE:	1/3/2025
CHART:	102

RU-21 VOC Mass Concentrations (Treatment Area)



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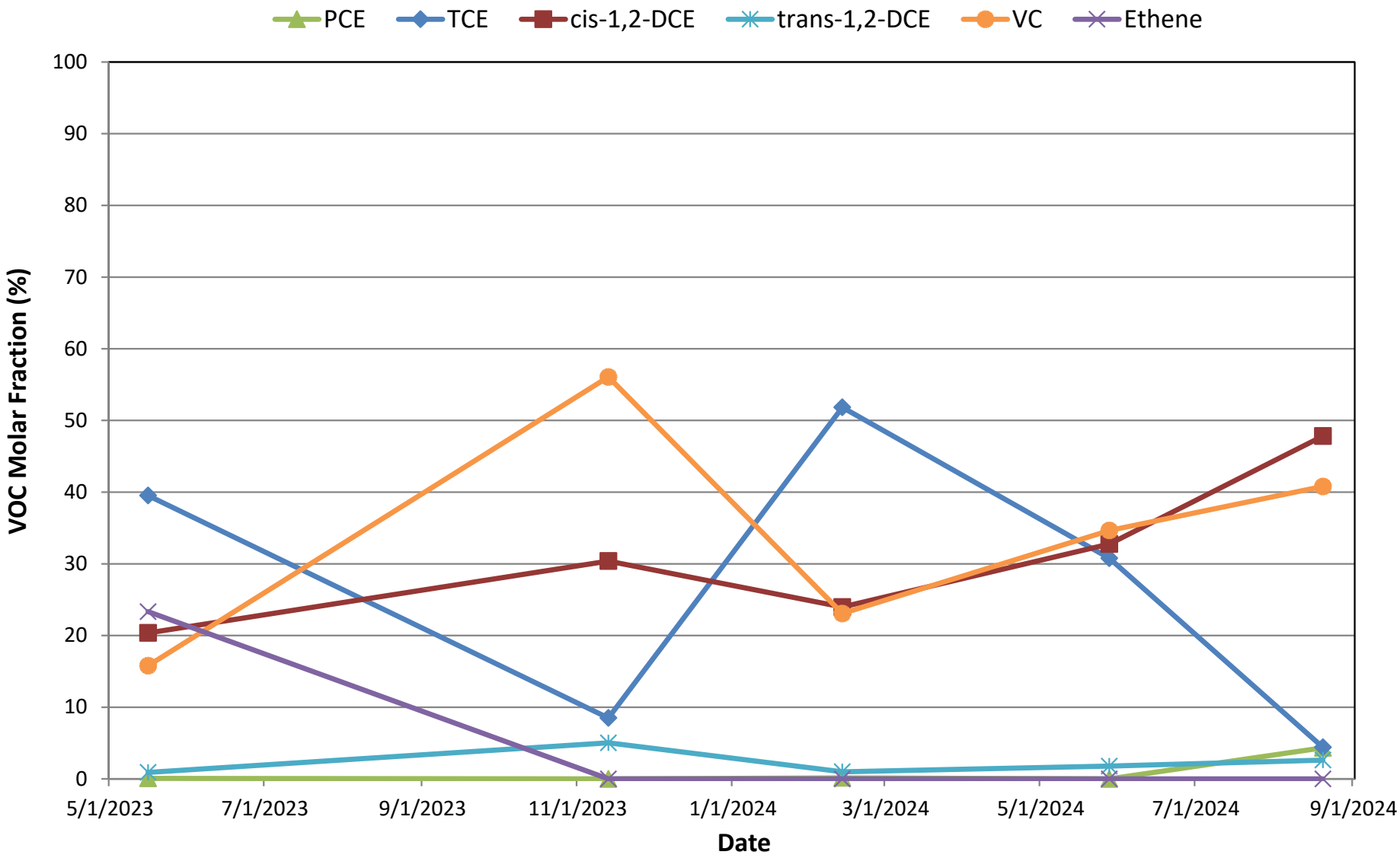
TREND CHART FOR VOCS BY MASS CONCENTRATION - RU-21 (TREATMENT AREA)

PROJECT NO:	300-082
DATE:	1/3/2025
CHART:	103

RU-21 VOC Molar Fractions (Treatment Area)



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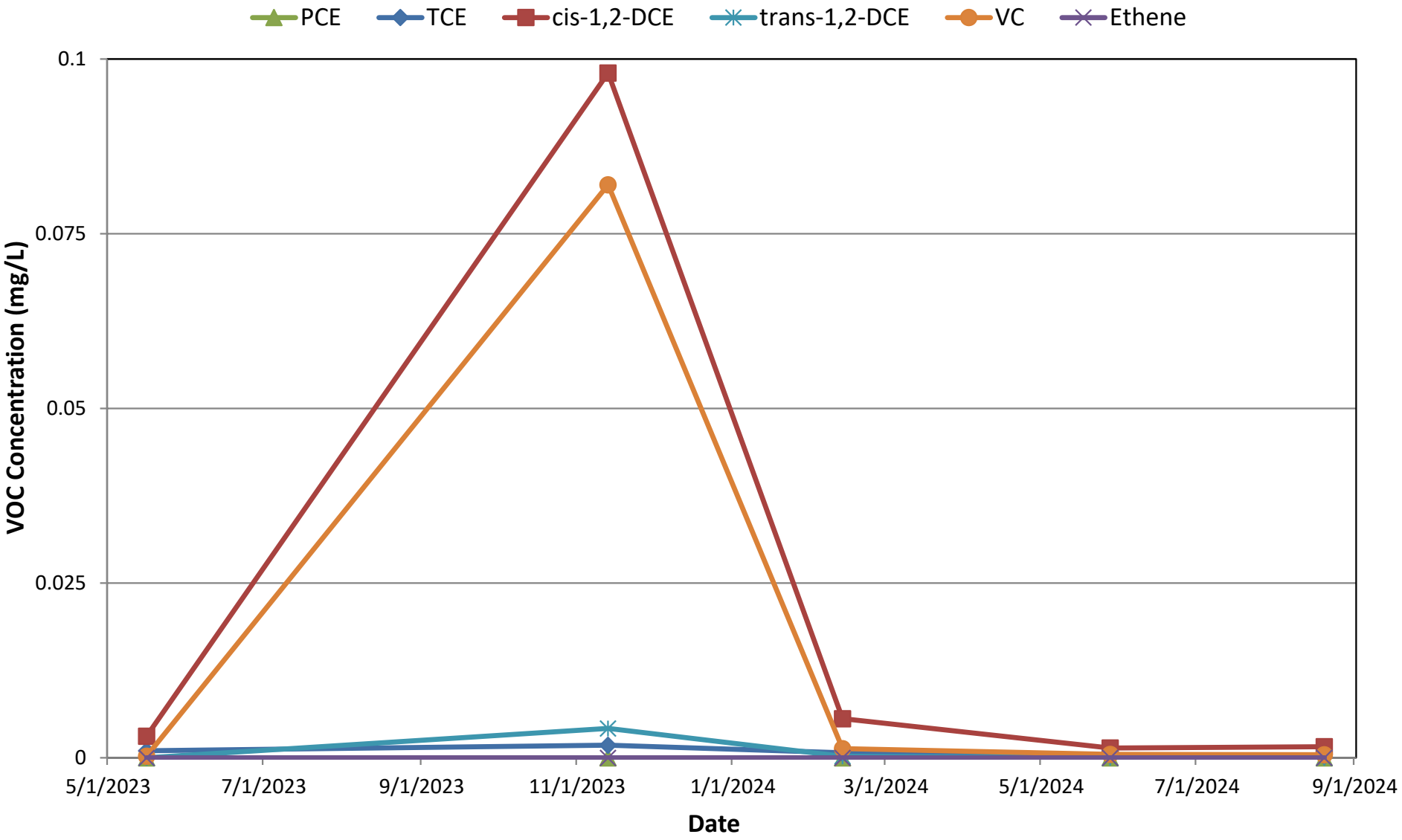
TREND CHART FOR VOCS BY MOLAR FRACTION - RU-21 (TREATMENT AREA)

PROJECT NO:	300-082
DATE:	1/3/2025
CHART:	104

RU-27A VOC Mass Concentrations (Treatment Area)



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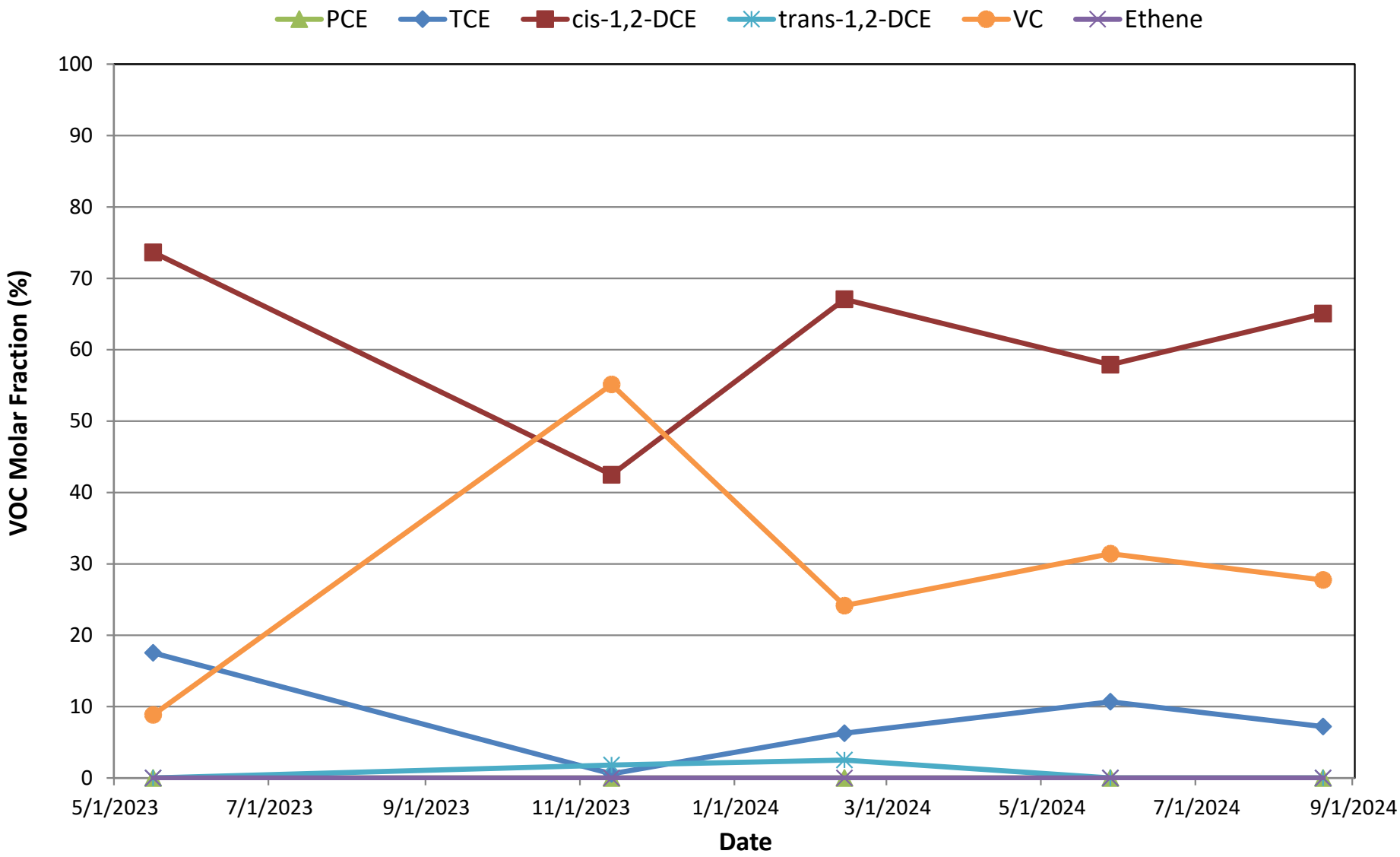
PROJECT NO:	300-082
DATE:	1/3/2025
CHART:	105

RU-27A VOC Molar Fractions (Treatment Area)



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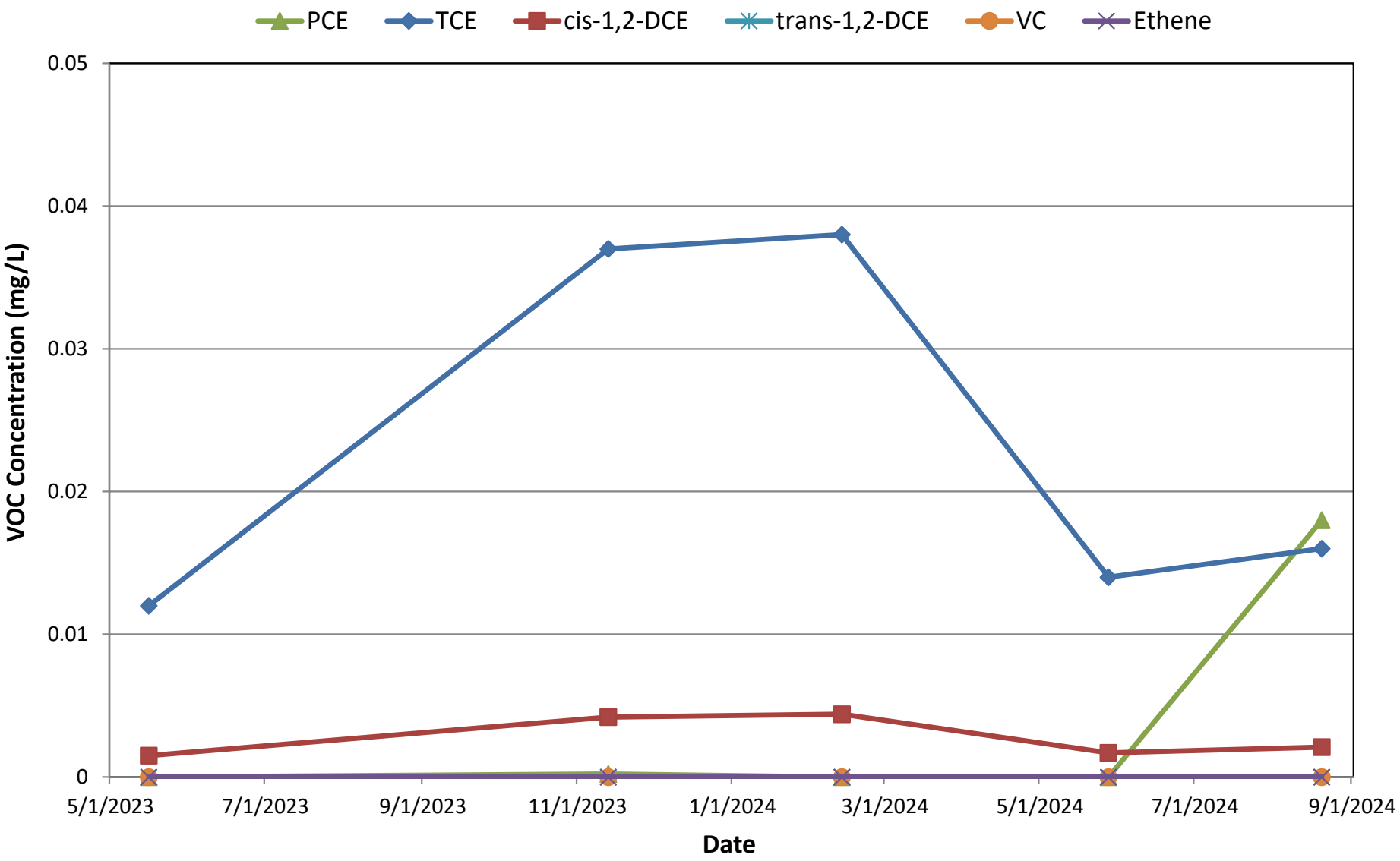
TREND CHART FOR VOCS BY MOLAR FRACTION - RU-27A (TREATMENT AREA)

PROJECT NO:	300-082
DATE:	1/3/2025
CHART:	106

RU-28 VOC Mass Concentrations (Treatment Area)



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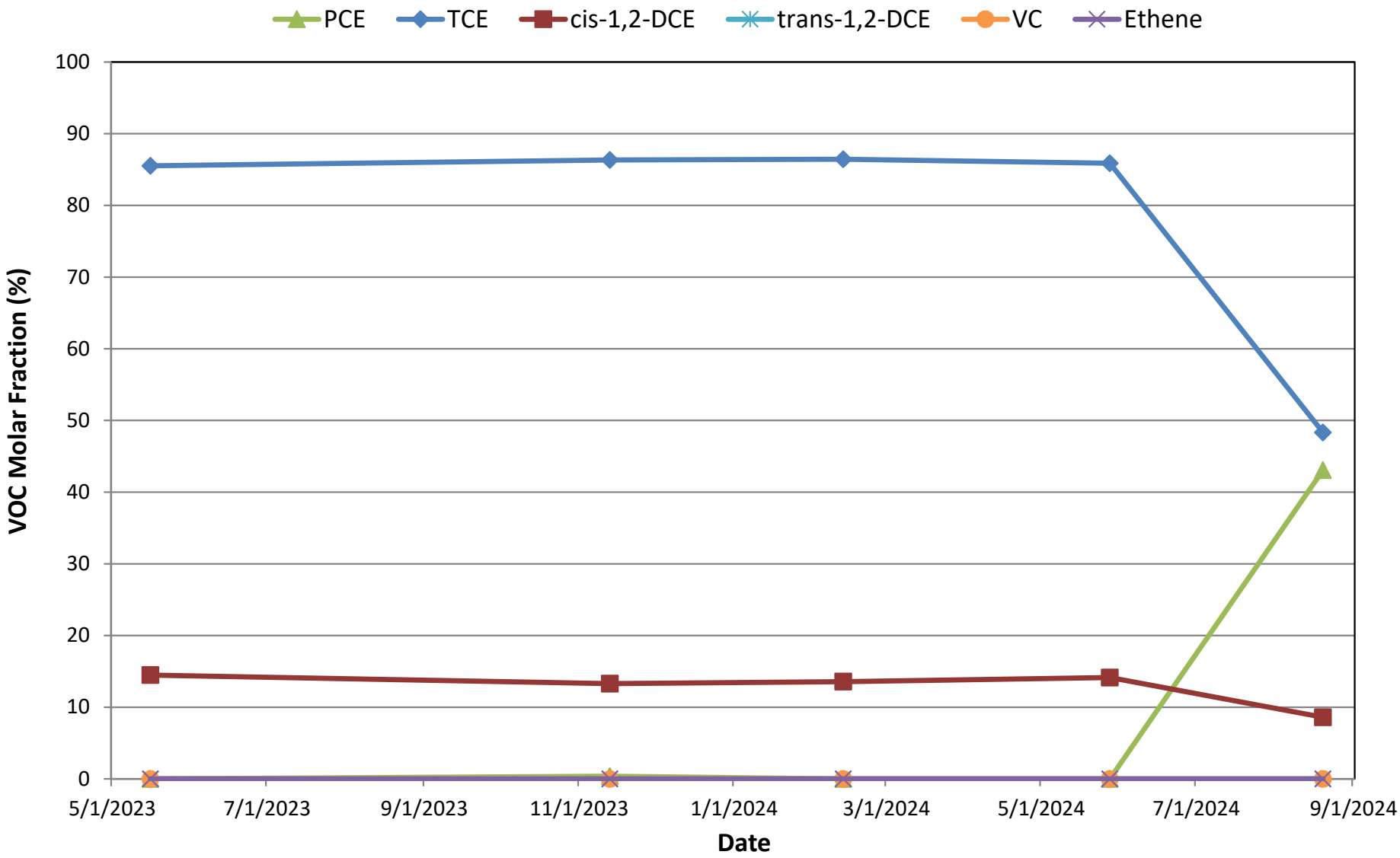
TREND CHART FOR VOCS BY MASS CONCENTRATION - RU-28 (TREATMENT AREA)

PROJECT NO:	300-082
DATE:	1/3/2025
CHART:	107

RU-28 VOC Molar Fractions (Treatment Area)



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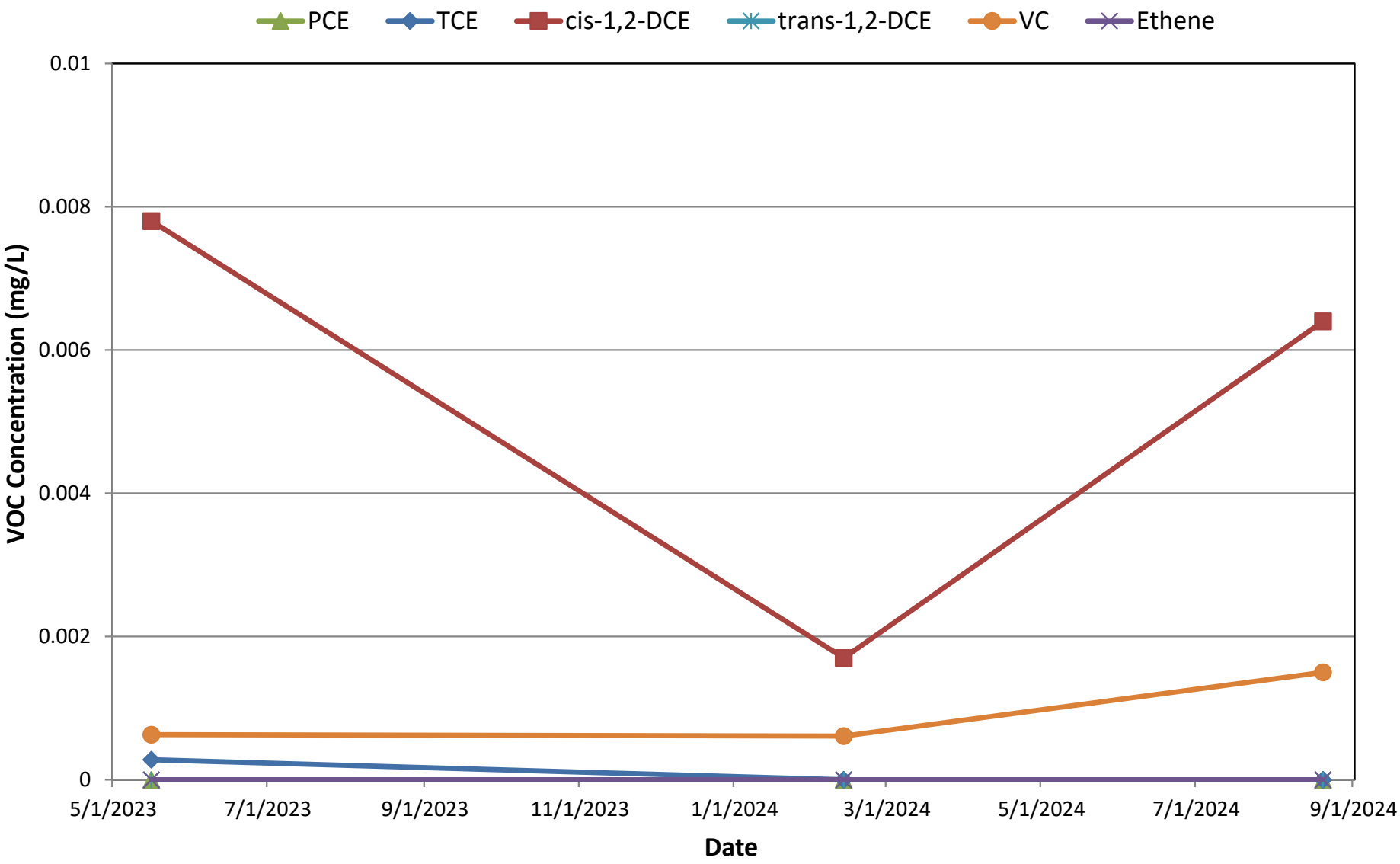
TREND CHART FOR VOCS BY MOLAR FRACTION - RU-28 (TREATMENT AREA)

PROJECT NO:	300-082
DATE:	1/3/2025
CHART:	108

RU-11 VOC Mass Concentrations (Downgradient)



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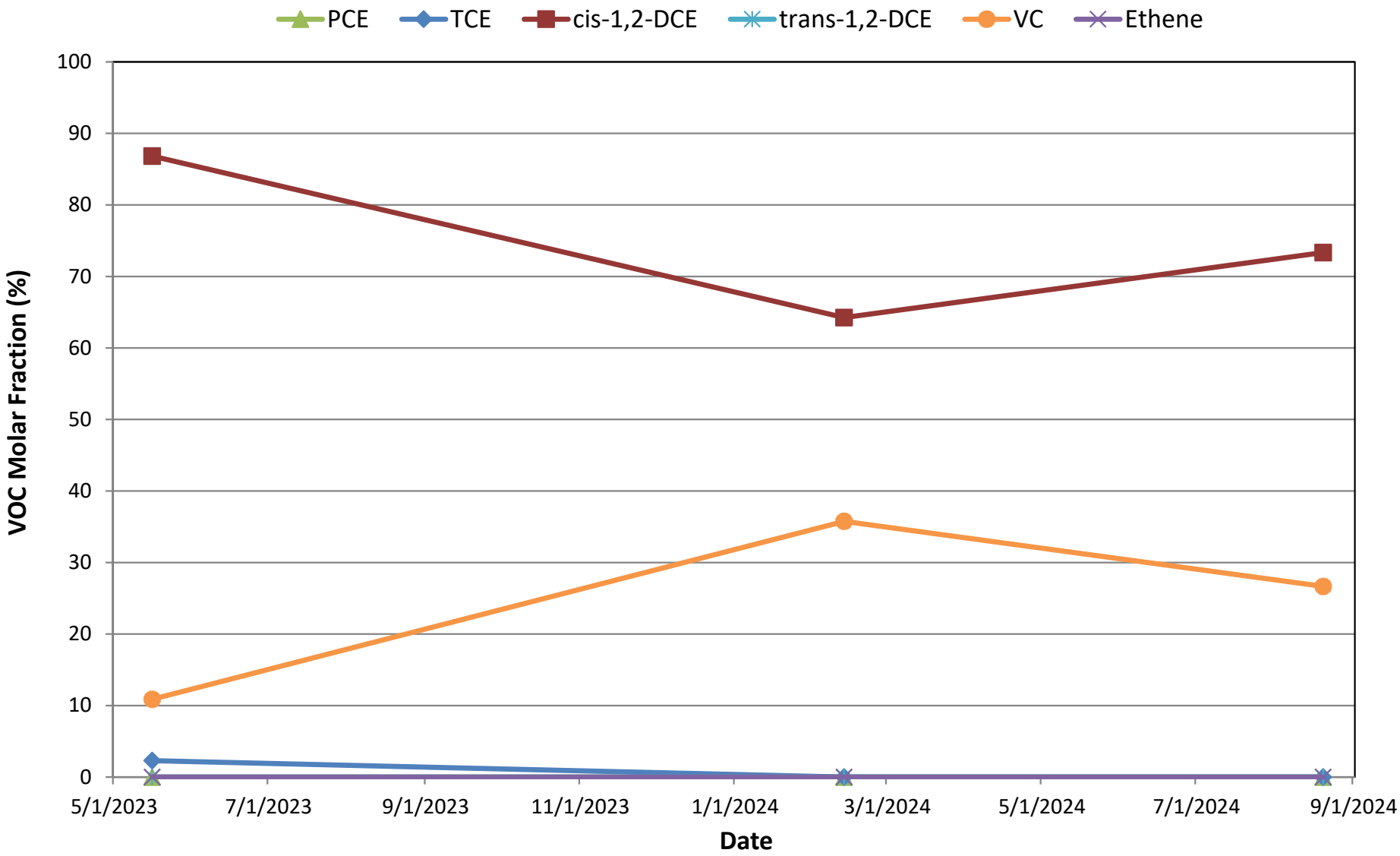
TREND CHART FOR VOCS BY MASS CONCENTRATION - RU-11 (DOWNGRADIENT)

PROJECT NO:	300-082
DATE:	1/3/2025
CHART:	109

RU-11 VOC Molar Fractions (Downgradient)



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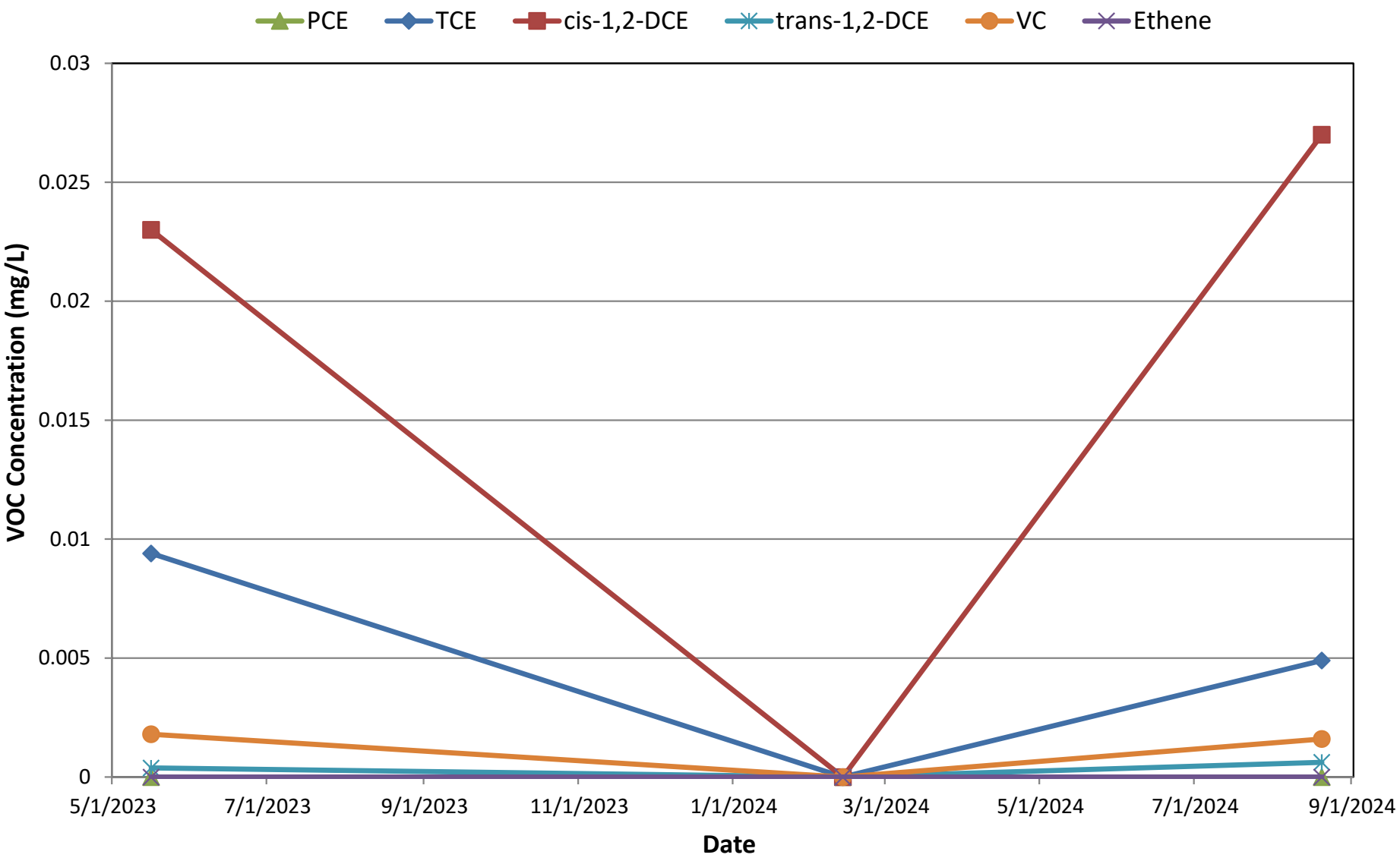
PROJECT NO:	300-082
DATE:	1/3/2025

CHART: **110**

RU-16 VOC Mass Concentrations (Downgradient)



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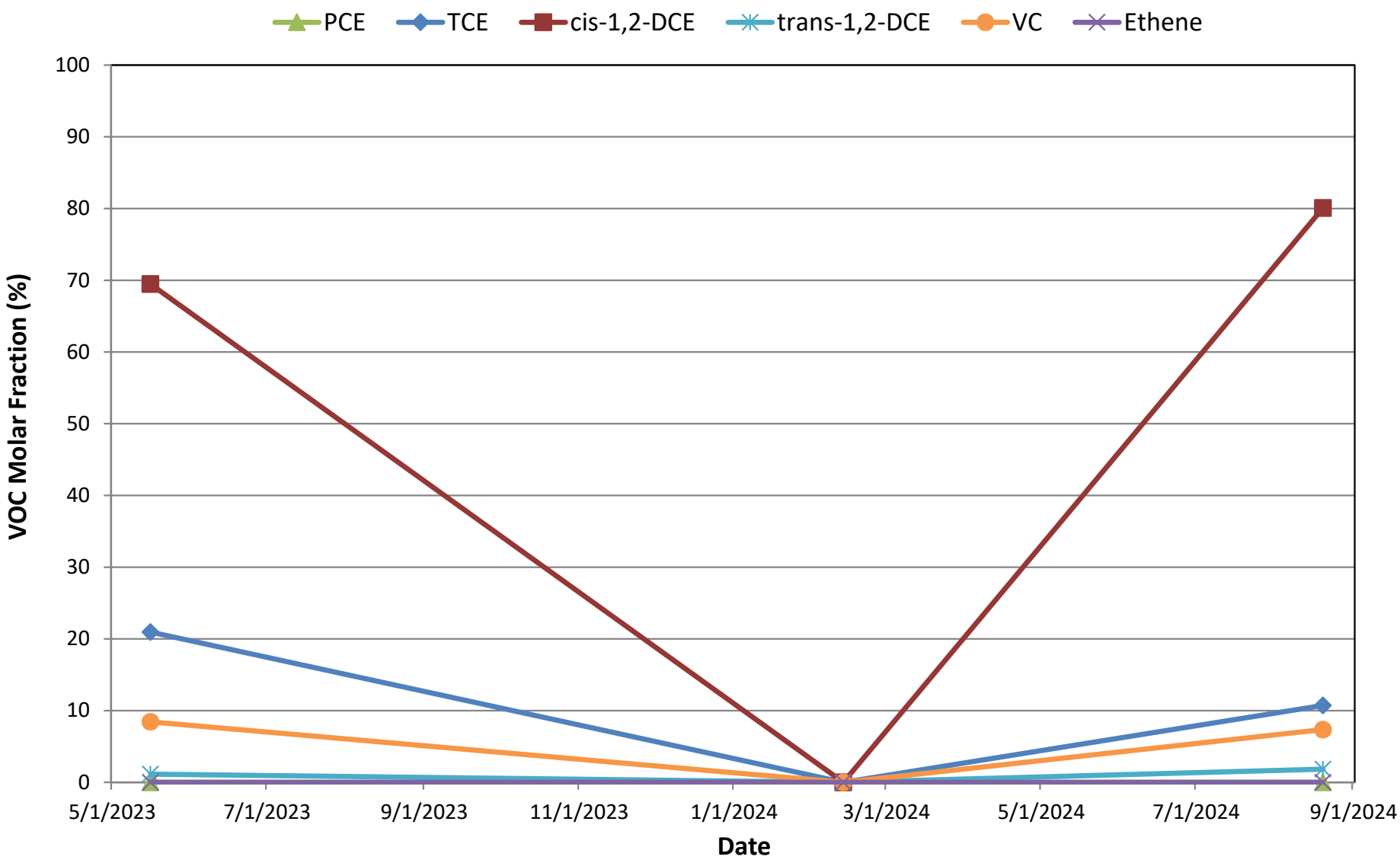
TREND CHART FOR VOCS BY MASS CONCENTRATION - RU-16 (DOWNGRADIENT)

PROJECT NO:	300-082
DATE:	1/3/2025
CHART:	111

RU-16 VOC Molar Fractions (Downgradient)



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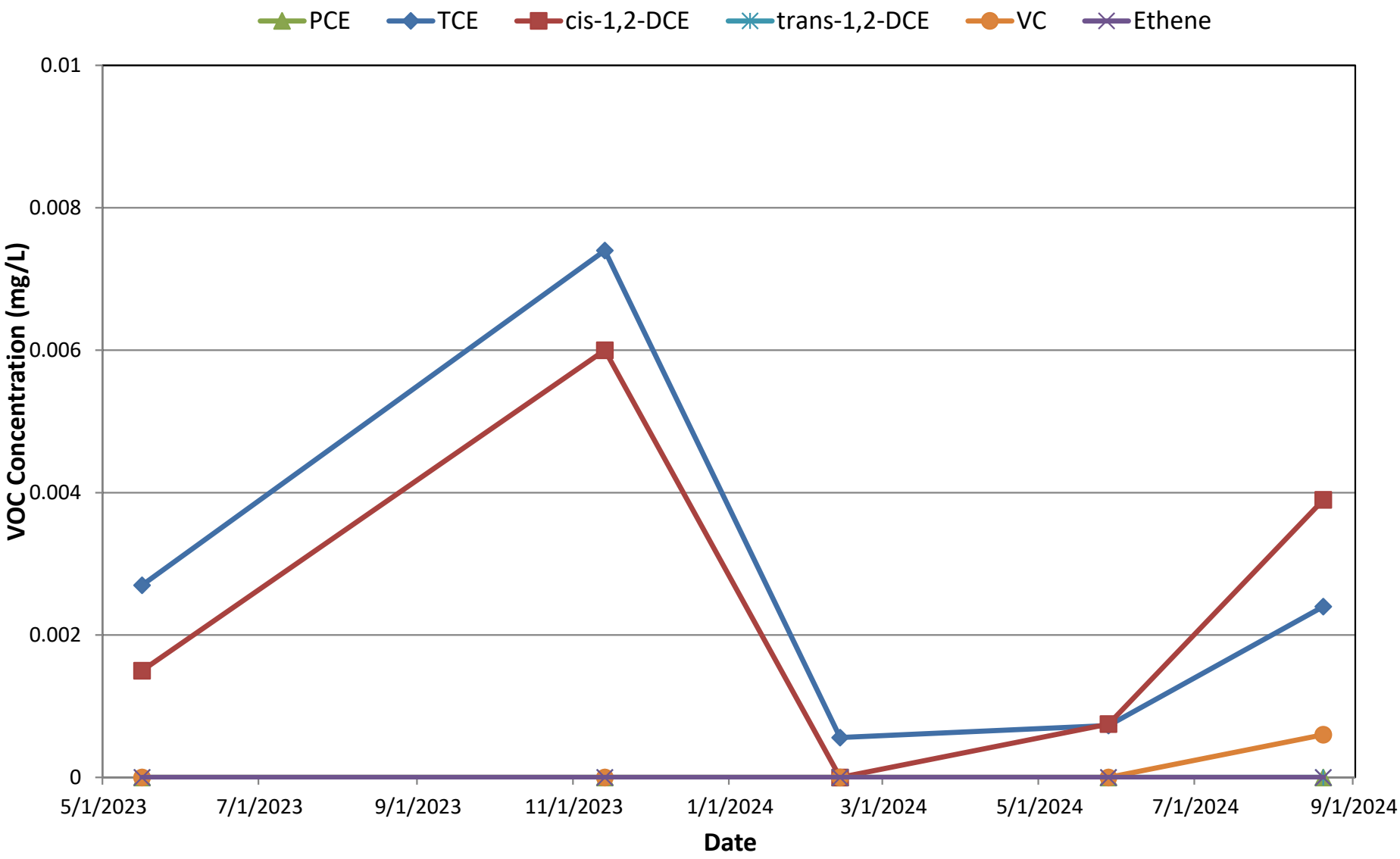
TREND CHART FOR VOCS BY MOLAR FRACTION - RU-16 (DOWNGRADIENT)

PROJECT NO:	300-082
DATE:	1/3/2025

CHART: **112**

UA-2 VOC Mass Concentrations (Downgradient)



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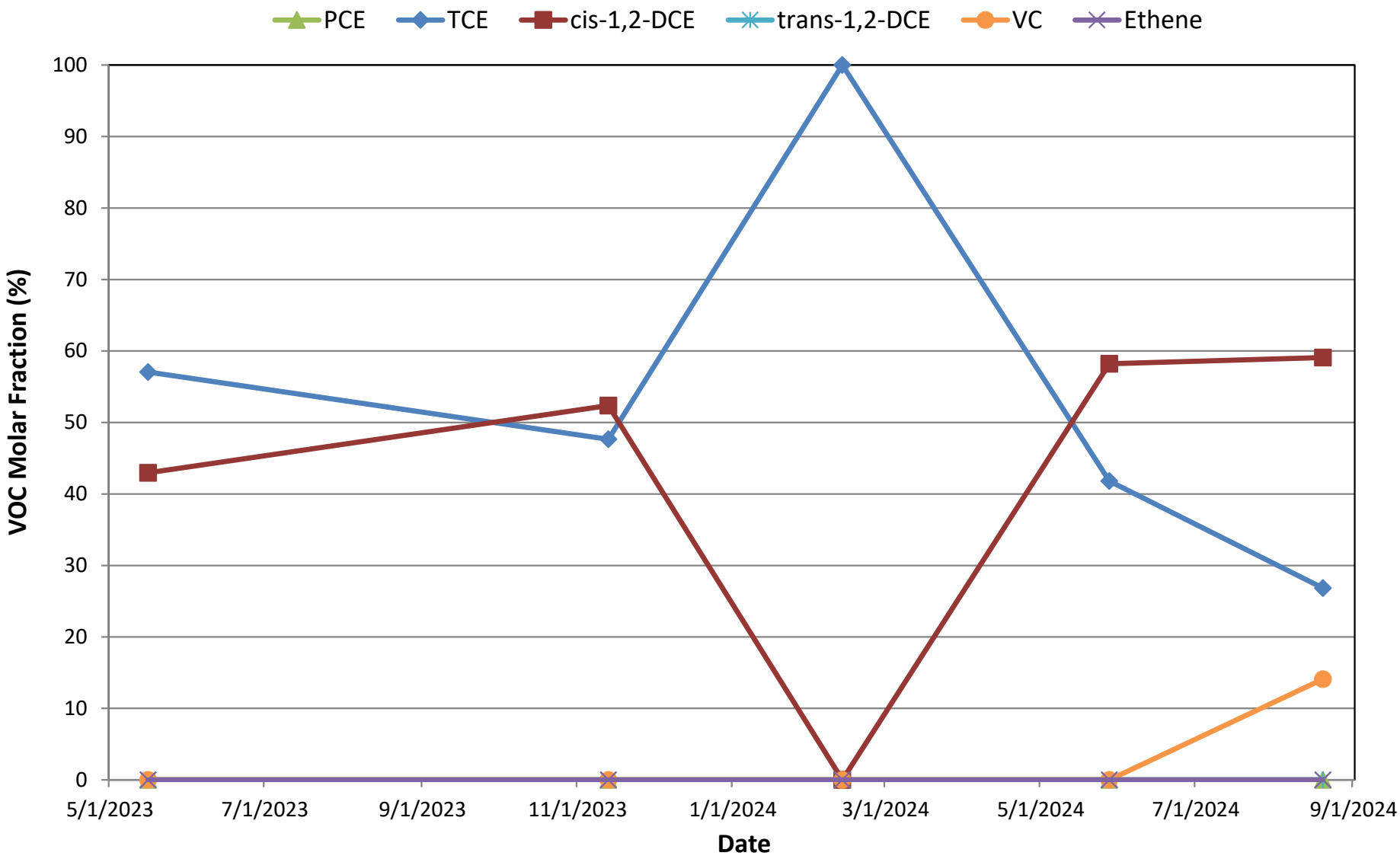
TREND CHART FOR VOCS BY MASS CONCENTRATION - UA-2 (DOWNGRADIENT)

PROJECT NO:	300-082
DATE:	1/3/2025
CHART:	113

UA-2 VOC Molar Fractions (Downgradient)



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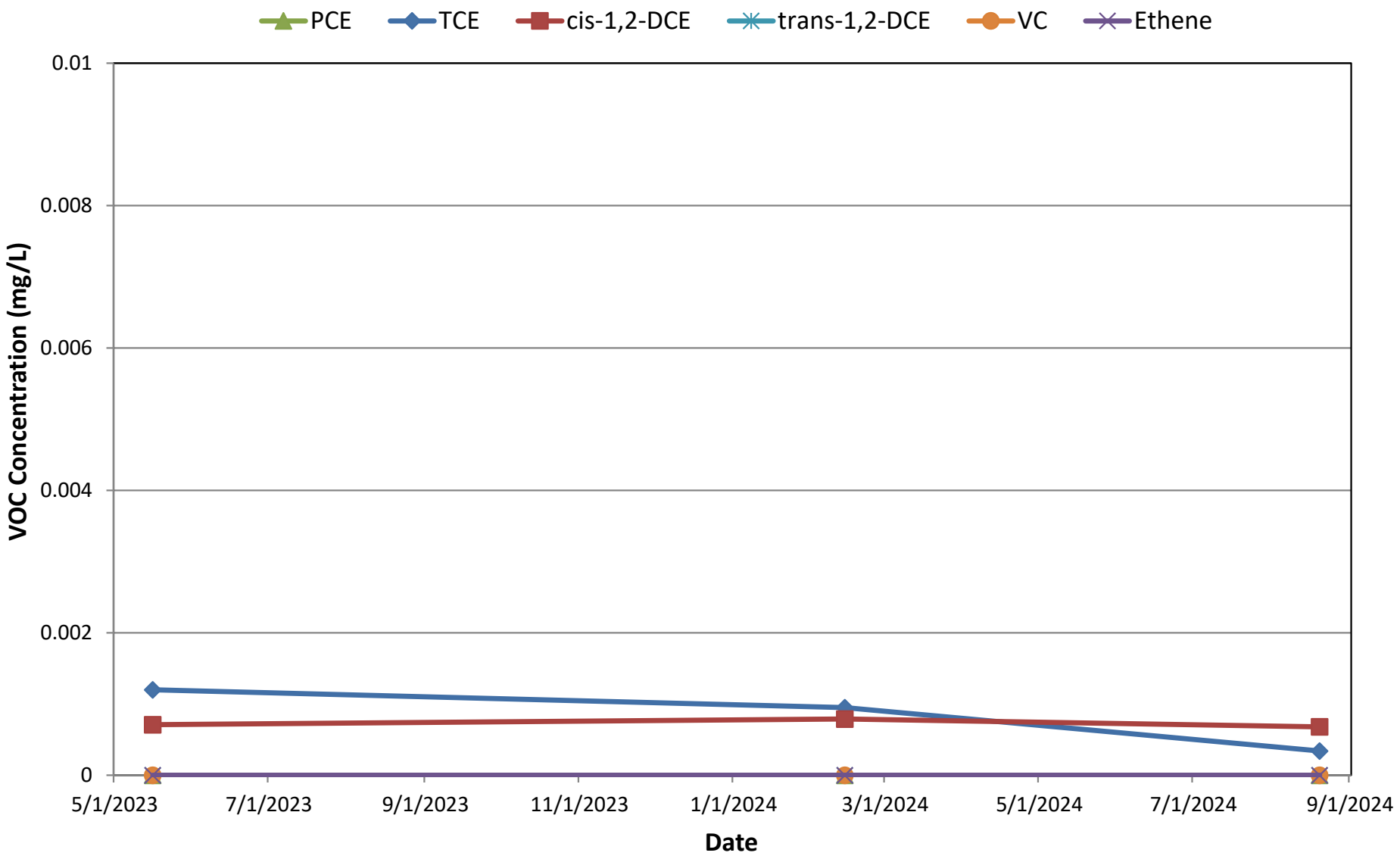
TREND CHART FOR VOCS BY MOLAR FRACTION - UA-2 (DOWNGRADIENT)

PROJECT NO:	300-082
DATE:	1/3/2025

CHART: **114**

UA-3 VOC Mass Concentrations (Downgradient)



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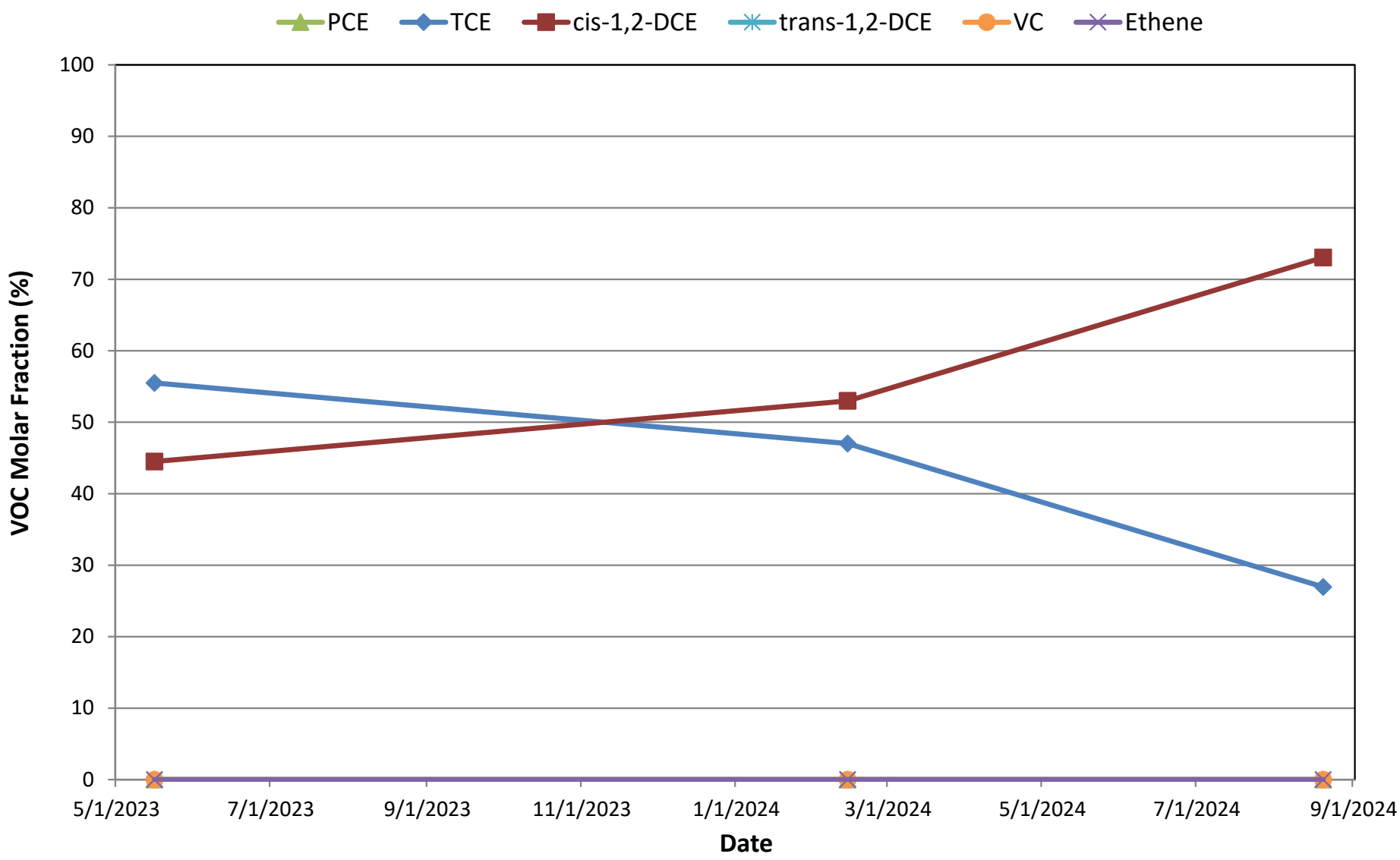
PROJECT NO:	300-082	CHART:	115
DATE:	1/3/2025		

UA-3 VOC Molar Fractions (Downgradient)



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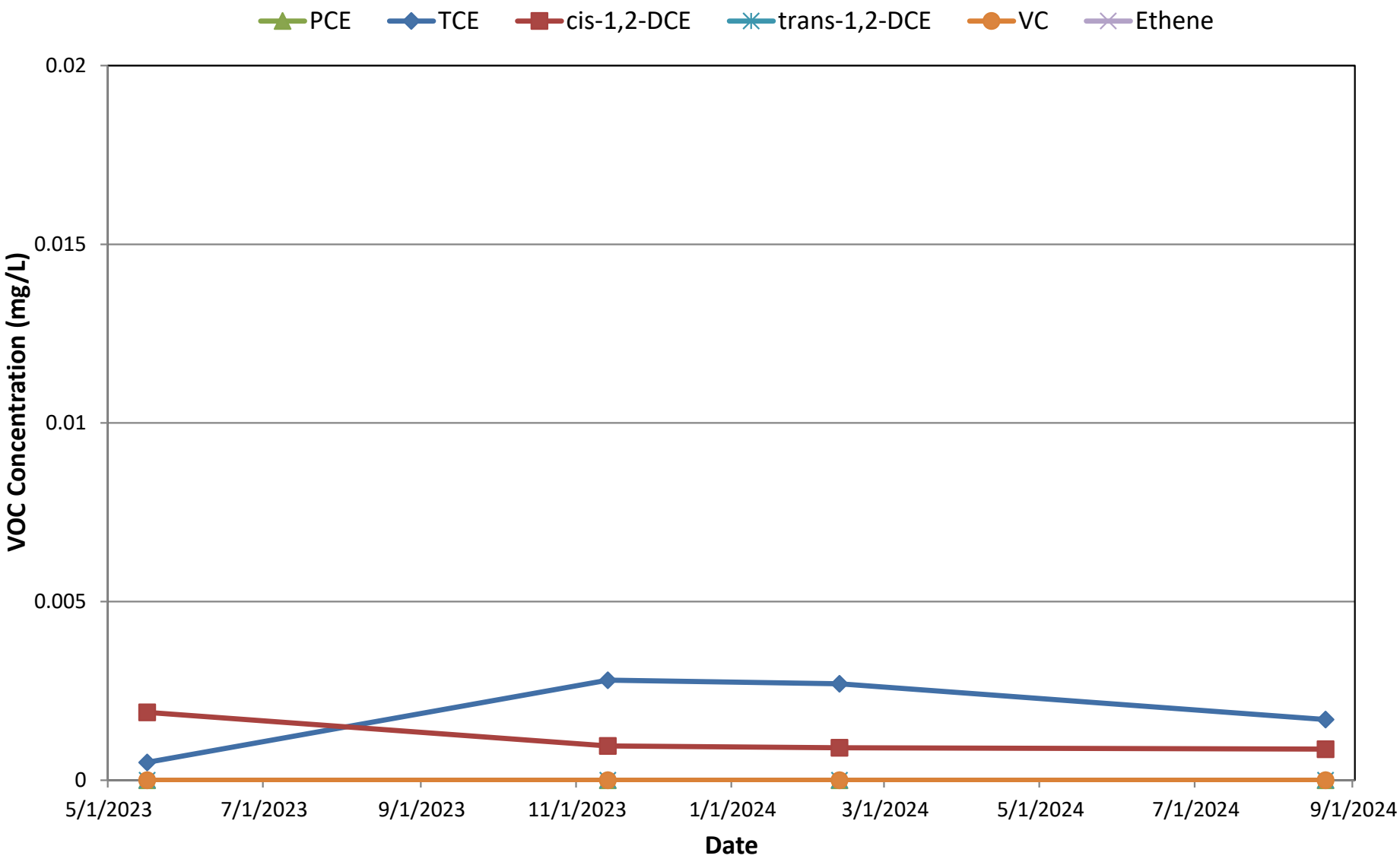
PROJECT NO:	300-082
DATE:	1/3/2025
CHART:	116

CW-13 VOC Mass Concentrations (Sentinel)



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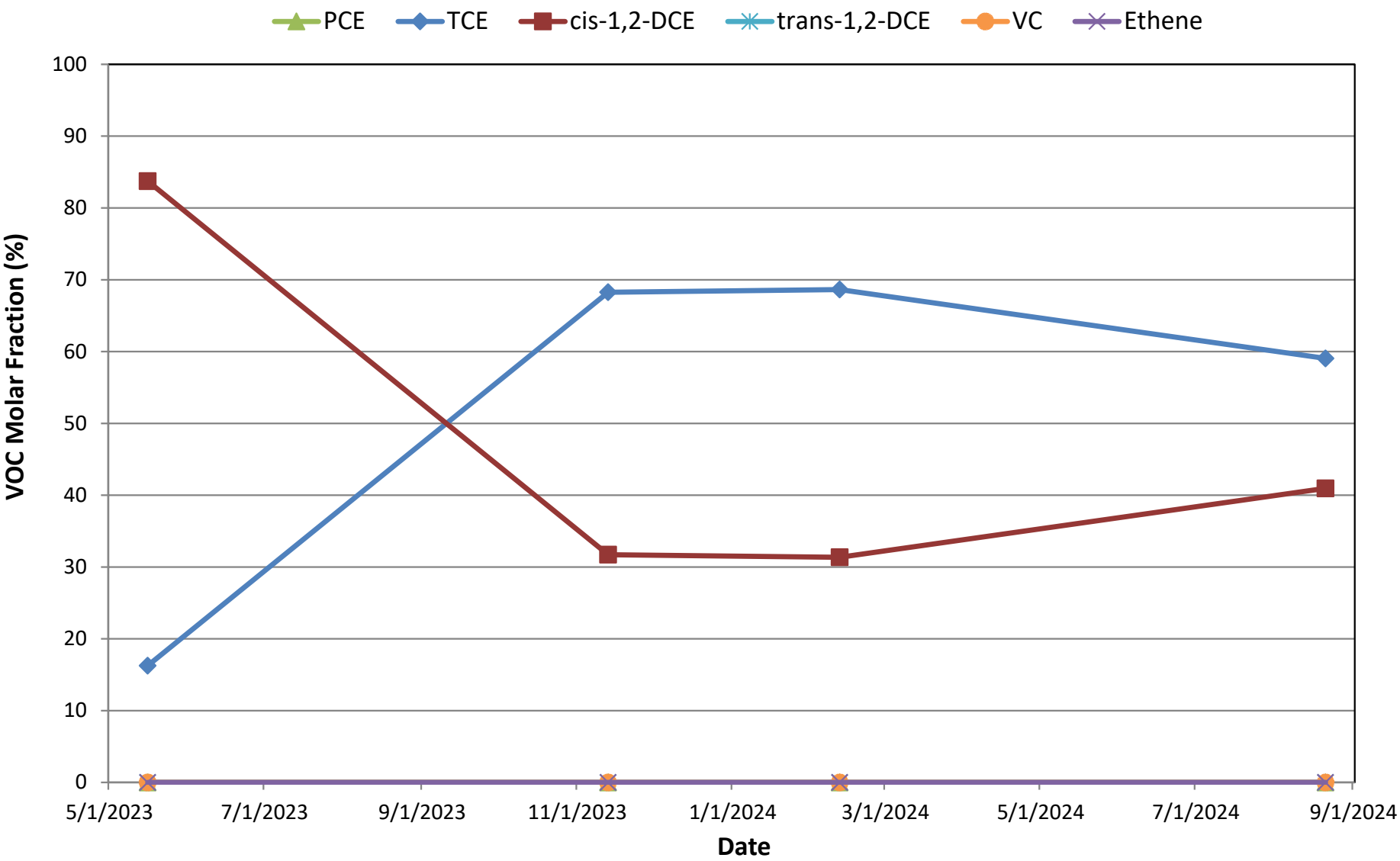
TREND CHART FOR VOCS BY MASS CONCENTRATION - CW-13 (SENTINEL)

PROJECT NO:	300-082
DATE:	1/3/2025
CHART:	117

CW-13 VOC Molar Fractions (Sentinel)



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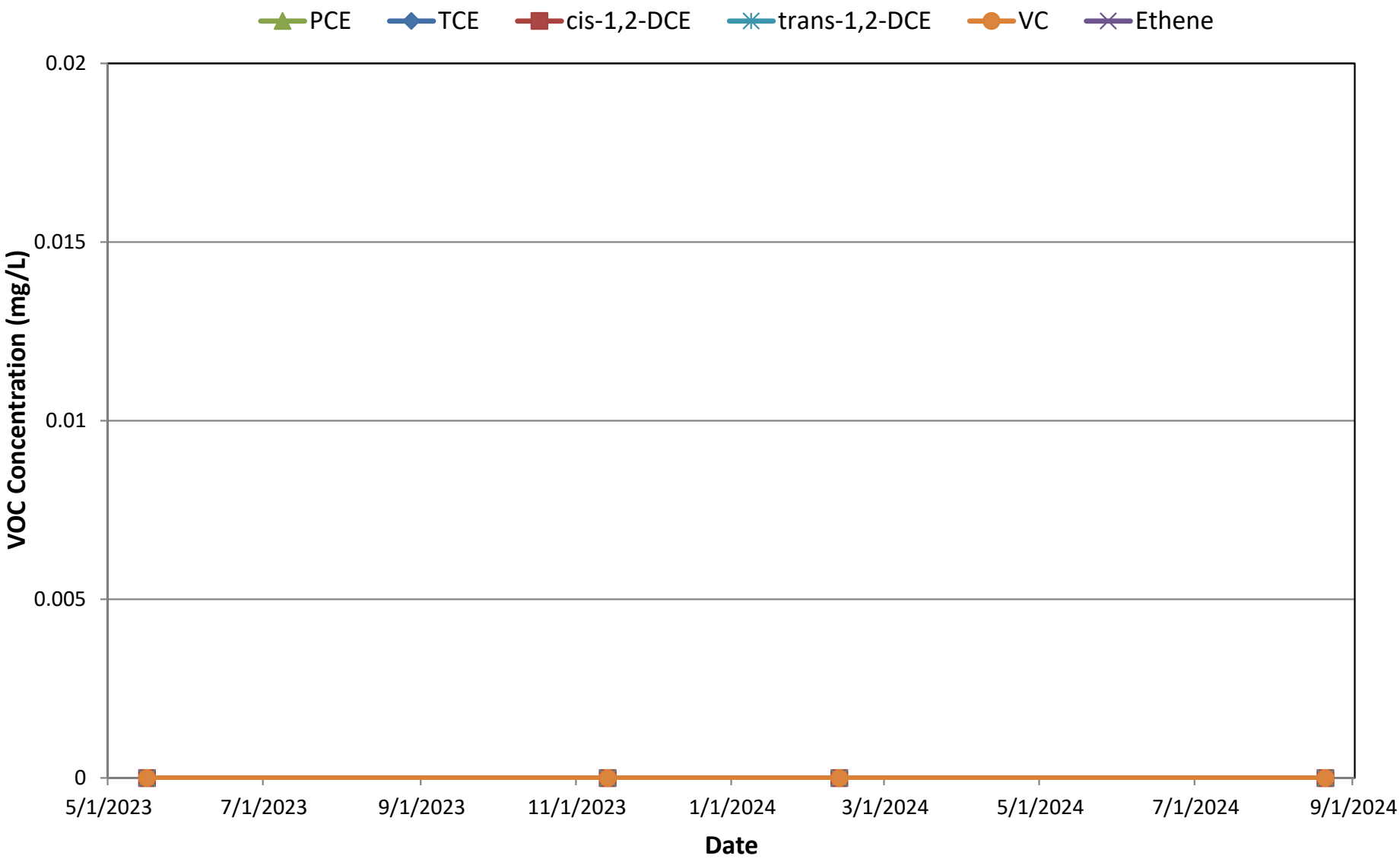
TREND CHART FOR VOCS BY MOLAR FRACTION - CW-13 (SENTINEL)

PROJECT NO:	300-082	CHART:	118
DATE:	1/3/2025		

CW-13A VOC Mass Concentrations (Sentinel)



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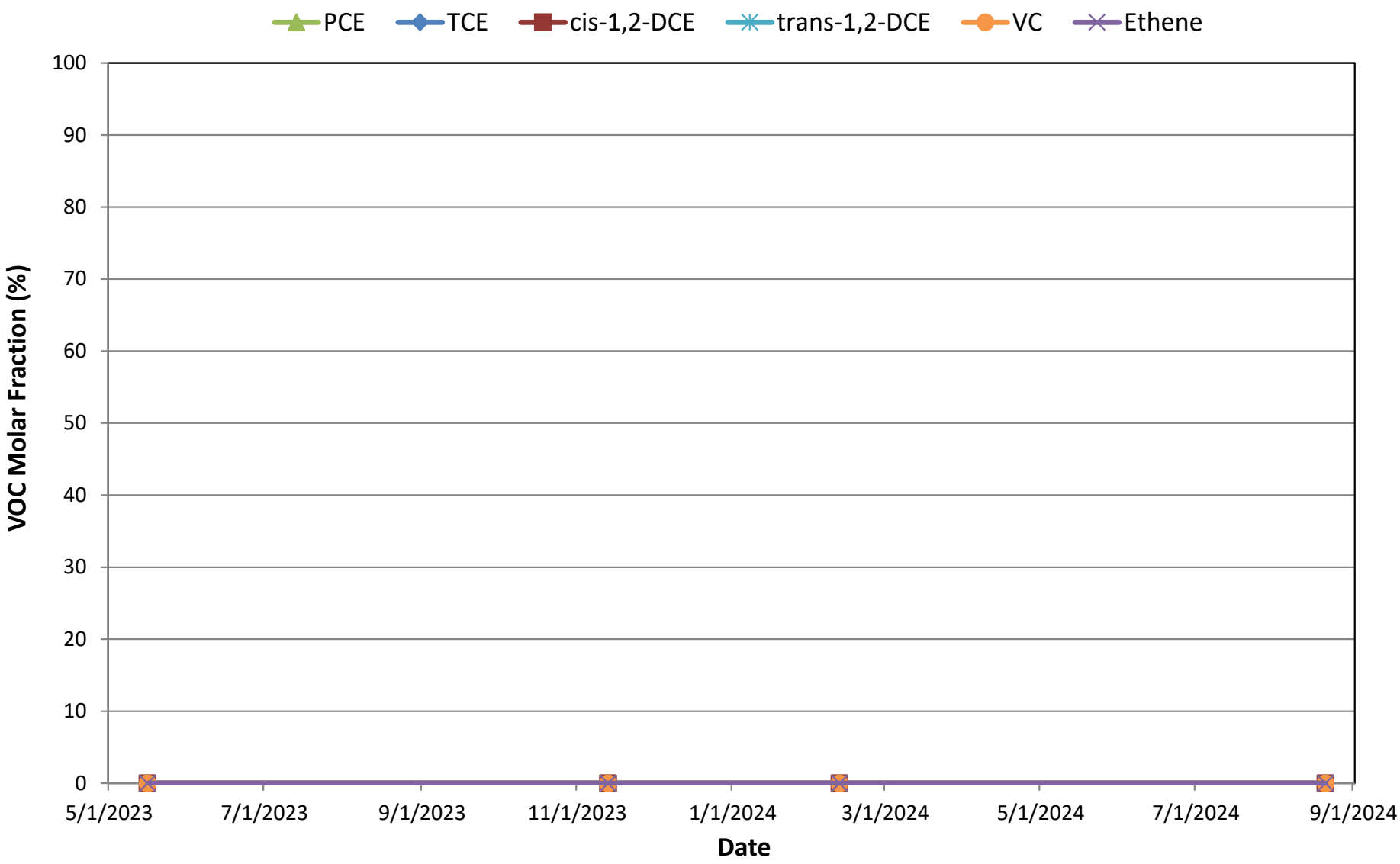
PROJECT NO:	300-082
DATE:	1/3/2025
CHART:	119

CW-13A VOC Molar Fractions (Sentinel)



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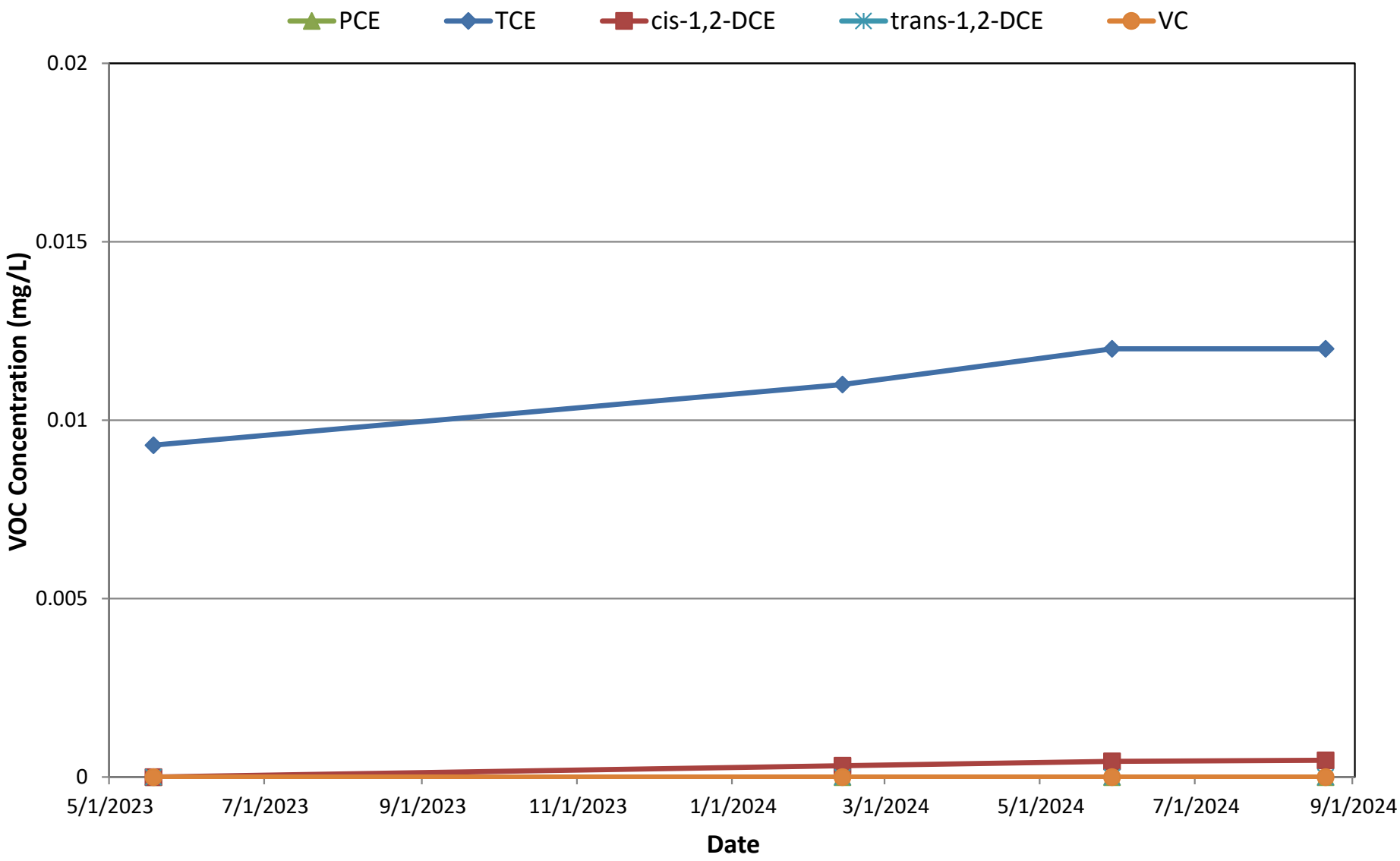
PROJECT NO:	300-082
DATE:	1/3/2025
CHART:	120

WW-18M VOC Mass Concentrations (Sentinel)



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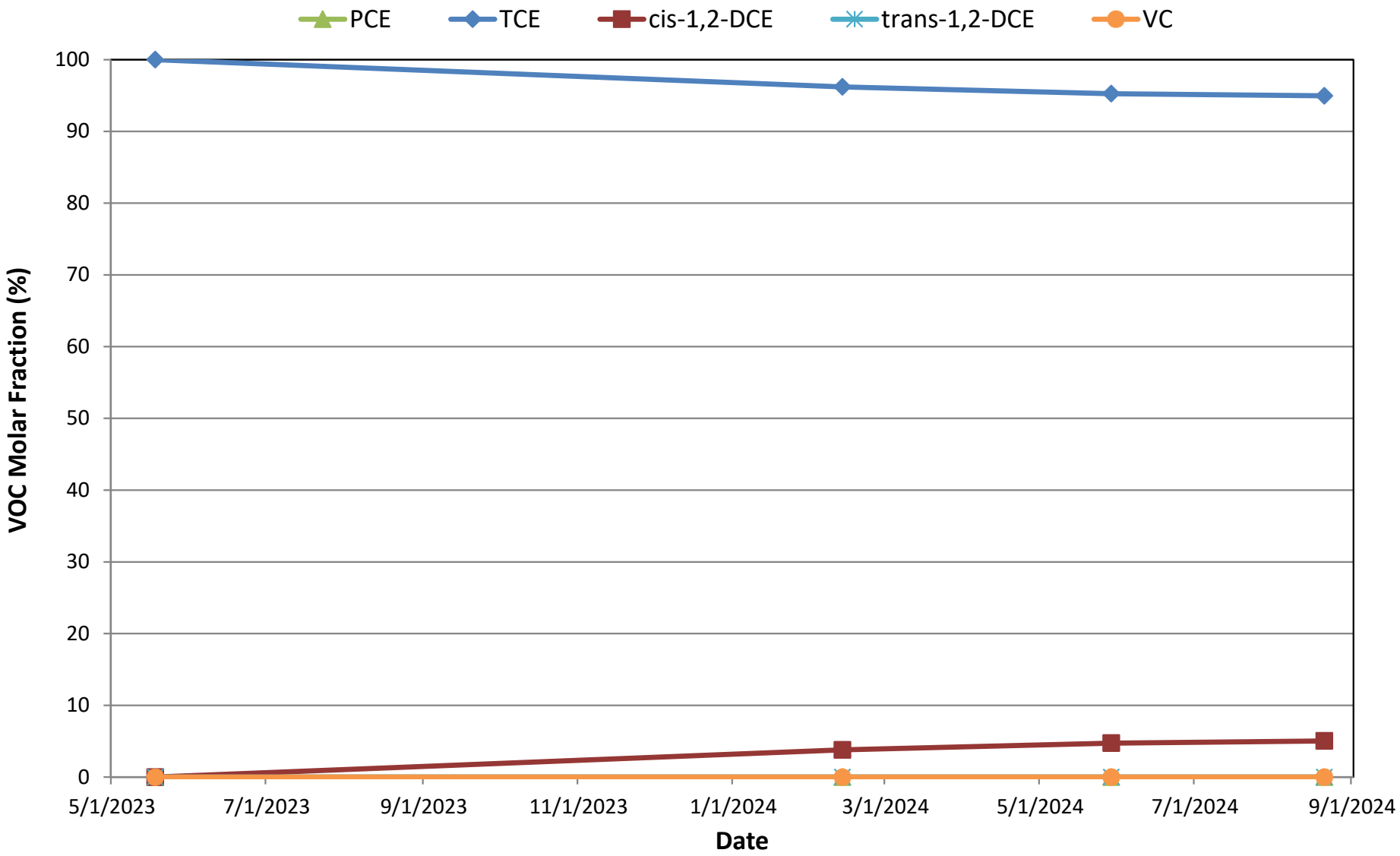
PROJECT NO:	300-082
DATE:	1/3/2025
CHART:	121

WW-18M VOC Molar Fractions (Sentinel)



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PROJECT NO:	300-082
DATE:	1/3/2025

CHART: 122